Moody Nolan

Addendum

Project	The Falls on Refugee Road	**Addendum Number**	1
Project Number	23446	**Date**	06/11/2025
To	All Bidders		

This addendum contains changes to the requirements of the bidding Documents, Project Manual and Construction Drawings which have been issued to date. Such changes are to be incorporated into the Construction Documents and shall apply to the work in the same meaning and force as if they had been included in the original documents. Wherever this Addendum modifies a portion of a paragraph of the Project Manual or a portion of any Drawing, the remainder of the paragraph or Drawing shall remain in force.

1. **Bid Extension -** Submission dates and other deadlines have been revised in the RFP issued by CMHA as a part of Addendum #1. Refer to the RFP for full information:

- Final Questions July 9th, Wednesday, by 4:00 PM.
- **Submissions due July 17th ,Thursday by 11:00 AM.**
- Preliminary award notification (pending board approval) Wednesday, July 30th, 4:00 PM.

Specifications

Specifications:

00 01 10 – TABLE OF CONTENTS

- Updated as described below.

01 23 00 – ALTERNATES

- Paragraph 1.03.A.2: Alternate #2 added.

04 00 00 – MASONRY

- Paragraph 2.01.B.5: Manufacturer / Color updated.
- Other various updates and clarifications. Reference attached section.

04 72 00 – CAST STONE

- Various updates and clarifications. Reference attached section.

04 73 10 – MANUFACTURED STONE VENEER

- Paragraph 2.01: Basis of Design updated.
- Other various updates and clarifications. Reference attached section

04 73 13 – CALCIUM SILICATE MANUFACTURED STONE

- Section removed from project manual.

05 12 00 – STRUCTURAL STEEL

- Section removed from project manual.

06 40 00 – ARCHITECTURAL WOODWORK

- Various updates and clarifications. Reference attached section.

07 10 00.13 – WATERPROOFING

- Section removed from project manual.

07 26 16 – BELOW GRADE VAPOR RETARDERS

- Section removed from project manual.

07 27 27 – SELF ADHERED SHEET AIR BARRIERS

- Section removed from project manual.

07 31 13 – ROOFING SHINGLES

- Paragraph 2.01.F & G: Style and BOD manufacturer clarified.

07 46 33 – VINYL SIDING

- Various updates and clarifications. Reference attached section.

07 46 46 – MINERAL-FIBER CEMENT SIDING (section not re-printed)

- Paragraph 2.01.D.3.a: Clarification - “Field painted, color as selected by Architect.”

08 14 00 – WOOD DOORS

- Various updates and clarifications. Reference attached section.

08 36 13 – SECTIONAL DOORS

- Section added to project manual.

08 53 13 – VINYL WINDOWS AND PATIO DOORS (section not re-printed)

- Paragraph 2.01.E.1: Color clarification - “Exterior: Black.”
- Paragraph 2.01.E.2: Color clarification - “Interior: As selected by Architect from manufacturer's standard colors.”

08 71 10 – DOOR HARDWARE

- Various updates and clarifications. Reference attached section.
- Hardware sets added.

09 29 00 – GYPSUM WALLBOARD

- Various updates and clarifications. Reference attached section.

09 65 66 – RESILIENT ATHLETIC FLOOR

- Section added to project manual.

10 22 21 – DEMOUNTABLE GLASS PARTITIONS

- Section added to project manual.

10 28 13 – TOILET ACCESSORIES

- Hardware manufacturers and models updated and clarified.

10 44 00 – FIRE EXTINGUISHERS AND CABINETS (section not re-printed)

- Paragraph 1.01.B: Clarification added - " breezeways and where indicated on drawings."

10 55 23 – MAILBOXES (section not re-printed)

- Paragraph 2.01.C: Model number added - "model 4CADD-09."

11 31 00 – RESIDENTIAL APPLIANCES

- Appliance schedules added.
- Appliance manufacturers and models updated and clarified.

12 21 14 – VERTICAL BLINDS

- Section added to project manual.

12 32 00 – MANUFACTURED WOOD CASEWORK

- Section added to project manual.

12 33 55 – MANUFACTURED PLASTIC LAMINATE CLAD CASEWORK

- Section removed from project manual.

23 54 13 – SPLIT SYSTEM AH UNITS

- Section added to project manual.

23 62 14 – AIR COOLED HEAT PUMPS

- Section added to project manual.

26 27 26 – WIRING DEVICES

- Edited to use commercial devices rather than industrial devices.

APPENDIX C

- Section added to project manual.

Drawings

1) G001 - DRAWING INDEX
   i) Changes in the sheet Names as clouded.
   ii) Added sheet A470,A513, A825 to construction set.
   iii) Added sheet FP100 to construction set
   iv) Added sheet P107-D to construction set

2) G010 - CODE DATA – BUILDING A-C
   i) Updated number of bicycle racks.

3) G010D - CODE DATA – CLUBHOUSE
   i) Updated number of bicycle racks.

4) G100A - BUILDING A – LIFE SAFETY
   i) Revised stair layout
   ii) Added coded note 15 to coded note legend

5) G100B – BUILDING B – LIFE SAFETY
   i) Removed second stair from breezeway
   ii) Revised stair layout
   iii) Added coded note 15 to coded note legend

6) G100C - BUILDING C – LIFE SAFETY
   i) Revised stair layout
   ii) Added coded note 15 to coded note legend

7) G100D - CLUBHOUSE – LIFESAFETY
   i) Updated occupancy schedule
   ii) Added coded note 15 to coded note legend
   iii) Updated floor plan
   iv) Added coded notes on floor plan.

8) A001 - ARCHITECTURAL SITE PLAN
    i) Added the sheet and Architectural site plan.

9) A101A – BUILDING A - LEVEL 01 & 02 FLOOR PLANS
    i) Moved Elec/ Water closet to the west wall of breezeway and renamed the closet
    ii) Added section at electrical/water closet.
    iii) Removed Elec/Water closet on second breezeway
    iv) Stairs updated on Level 01 and Level 02 floor plans.

10) A102A - BUILDING A - LEVEL 03 / ROOF PLAN
    i) Updated stairs on Level 03

11) A103B – BUILDING B - LEVEL 01 & 02 FLOOR PLANS
    i) Moved Elec/ Water closet to the west wall of breezeway.
    ii) Added section at electrical/water closet.
    iii) Removed Elec/Water closet on second breezeway
    iv) Stairs updated on Level 01 and Level 02 floor plans.
    v) Removed second set of stairs on both breezeways in Building B

12) A104B - BUILDING B - LEVEL 03 / ROOF PLANS
    i) Updated stairs on Level 03
    ii) Removed second set of stairs on both breezeways in Building B

13) A105C – BUILDING C - LEVEL 01, 02, 03 FLOOR / ROOF PLANS
    i) Added section at electrical/water closet.
    ii) Updated stairs on Level 01, Level 02, and Level 03.

14) A106D - CLUBHOUSE - FLOOR & ROOF PLANS
    i) Updated the sheet name
    ii) Updated floor plan at rest rooms, package room, and leasing office as clouded.
    iii) Added restroom at front lobby
    iv) Added over the counter microwave at clubroom kitchenette.
    v) Revised coded note 10 to state CBU's are wall mounted and not floor mounted
    vi) Added coded notes 11 & 12
    vii) Added coded notes in plans
    viii) Coded furniture corresponding to the FF&E Specifications Package in rooms:
    - Conference & Closing D103
    - Leasing D105
    - Marketing D106
    - Club D108
    - Parcel Rm D115
    - Mech./Jan. D116

15) A110G - GARAGE BUILDING G1 & TYP. DETAILS

i) Added coded note 2 and located downspouts on the plan.

16) A111G - GARAGE BUILDING G2
   i) Added coded note 2 and located downspouts on the plan.

17) A201A, A202A, A203B, A204B, A205C, A 206D – REFLECTED CEILING PLANS
   i) Revised ceiling tags

18) A310A, A310B, A310C, A310D – BUILDING ELEVATIONS
   i) Added note to elevations for Alternate condition.

19) A310E – ALTERNATE ELEVATION & DETAILS
   i) New elevation sheet describing Alternate condition with details.

20) A401 - BUILDING A – SECTIONS
   i) Added Ceiling to bathroom for unit U1a- Ansi type A.

21) A420 – WALL SECTIONS – BLDG A THRU C
   i) Added note clarifying that the buildings located along Refugee & Schwartz have two-story stone cladding. The one-story condition is shown on the wall sections.

22) A421 – WALL SECTIONS – BLDG A – C & D
   i) Added note clarifying that the buildings located along Refugee & Schwartz have two-story stone cladding. The one-story condition is shown on the wall sections.
   ii) Added Detail # 5 Section at water / F.P. closet in breezeways.

23) A440 - EXTERIOR DETAILS – SECTION
   i) Updated details 3,6,7,11,12 as clouded.

24) A442 - EXTERIOR DETAILS
   i) Updated details 1,2,5,13,15 as clouded.

25) A443 - EXTERIOR DETAILS
   i) Updated details 1,2 as clouded.

26) A470 - DUMPSTER ENCLOSURE DETAILS
   i) Added the sheet and details.

27) A501 - ENLARGED UNIT PLANS - 1 BED
   i) Changed coat closet orientation
   ii) Added Dimensions at Unit entry
   iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
   iv) Updated ceiling tags on RCP's.
   v) Updated ENL. Unit plans gen. note "P"
   vi) Updated coded not "9" to "6" on elevation 4,5.
   vii) Updated elevation 3 pantry cabinet dimensions.
   viii) Updated locations of ceiling lights in kitchen.

28) A502 - ENLARGED UNIT PLANS - 2 BED
    i) Changed coat closet orientation
    ii) Added Dimensions at Unit entry
    iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
    iv) Updated hardware sets in Unit door schedule
    v) Updated ceiling tags on RCP's
    vi) Updated ENL. Unit plans gen. note "P"
    vii) Updated locations of ceiling lights in kitchen.

29) A503 – ENLARGED UNIT PLANS - 2 BED 2 BA
    i) Changed coat closet orientation
    ii) Added Dimensions at Unit entry
    iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
    iv) Updated hardware sets in Unit door schedule
    v) Updated ceiling tags on RCP's
    vi) Updated ENL. Unit plans gen. note "P"
    vii) Updated locations of ceiling lights in kitchen.

30) A504 – ENLARGED UNIT PLANS - 3 BED
    i) Changed coat closet orientation
    ii) Added Dimensions at Unit entry
    iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
    iv) Updated hardware sets in Unit door schedule
    v) Updated ceiling tags on RCP's
    vi) Updated ENL. Unit plans gen. note "P"
    vii) Updated locations of ceiling lights in kitchen.

31) A 505 – ENLARGED UNIT PLANS - 1 BED ANSI TYPE A
    i) Changed coat closet orientation
    ii) Added Dimensions at Unit entry
    iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
    iv) Added Coded Note 10 at bathtub
    v) Added Microwave in Kitchen elevation
    vi) Updated hardware sets in Unit door schedule
    vii) Updated ceiling tags on RCP's
    viii) Updated ENL. Unit plans gen. note "P"
    ix) Updated locations of ceiling lights in kitchen.

32) A 506 – ENLARGED UNIT PLANS - 2 BED ANSI TYPE A
    i) Changed coat closet orientation
    ii) Added Dimensions at Unit entry

iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
iv) Added Coded Note 10 at bathtub
v) Updated hardware sets in Unit door schedule
vi) Updated ceiling tags on RCP's
vii) Updated ENL. Unit plans gen. note "P"
viii) Updated locations of ceiling lights in kitchen.

33) A507 – ENLARGED UNIT PLANS - 3 BED ANSI TYPE A
i) Changed coat closet orientation
ii) Added Dimensions at Unit entry
iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
iv) Added Coded Note 10 at bathtub
v) Updated hardware sets in Unit door schedule
vi) Updated ceiling tags on RCP's
vii) Updated ENL. Unit plans gen. note "P"
viii) Updated locations of ceiling lights in kitchen.

34) A508 – ENLARGED UNIT PLANS – CLUBHOUSE
i) Changed coat closet orientation
ii) Added Dimensions at Unit entry
iii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
iv) Updated hardware sets in Unit door schedule
v) Updated ceiling tags on RCP's
vi) Updated ENL. Unit plans gen. note "P"

35) A509 – ENLARGED UNIT PLANS – CLUBHOUSE
i) Added Dimensions at Unit entry
ii) Combined coded notes for plans and elevations on the legend, added and revised coded notes and updated them in plans and elevations as clouded.
iii) Updated hardware sets in Unit door schedule
iv) Updated ENL. Unit plans gen. note "P"

36) A513 – ENLARGED PLANS, ELEVATIONS & CASEWORK DETAILS - CLUBHOUSE
i) Added new sheet.
ii) Added Clubhouse interior elevation to the sheet
iii) Added Bathroom plan and elevations to the sheet

37) A601 - BUILDING A-C STAIR PLANS AND SECTIONS
i) Updated the stair Plans and Sections for Building A-C

38) A610 - STAIR & RAILING DETAILS
i) Updated details 2,4,5,,7,8,10 as clouded.

39) A700 – Door & Window Schedules

i) Added Door Hardware Set.
ii) Added Door Schedule – Typical Interior Unit

40) A710 - DOOR DETAILS
i) Updated the following details –
a) UNIT ENTRY DOOR SILL
b) UNIT ENTRY DOOR JAMB
c) UNIT ENTRY DOOR HEAD
d) SECTIONAL DOOR JAMB

41) A800A –
i) D104 RESTROOM (STORAGE) – Revised Floor Finish to TF-1, Base to TWB- 1 Revised East Wall to WT-2 and note about tile on wet wall
ii) D104A MECH – Revised Floor to SC
iii) D105 LEASING – Revised Floor from CR to LVP
iv) D109 FITNESS – Revised Lay-in Acoustical to A3
v) D115 PARCEL – Revised LVP to SC. Removed FRP from South and East walls.

FINISH LEGEND

vi) Deleted ENTRANCE CARPET (EC)
vii) Revised LVP-1 Specifications
viii) Added RSF-1 Specifications
ix) ADDED CR-1 Broadloom Carpet Specification
x) ADDED CR-2 Carpet Tile Specification
xi) ADDED FT-1 Floor Tile Specification
xii) DELETED LVP-2
xiii) ADDED TWB-1 Tile Wall Base Specification
xiv) ADDED WT-1 Wall Tile Specification
xv) ADDED WT-3 Wall Tile Specification

UNIT FINISH SCHEDULE

xvi) KITCHEN – REVISED WT to WT-2

CLUBHOUSE FINISH SCHEDULE

xvii) D101 FRONT LOBBY – REVISED Floor Finish to LVP-1
xviii) D102 CORRIDOR – REVISED Floor Finish to LVP-1
xix) D104 RESTROOM – REVISED EAST WALL finish to WT-1
xx) D107 GALLERY – REVISED Floor Finish to LVP-1
xxi) D108 CLUB – REVISED Floor Finish to LVP-1
xxii) D108 CLUB – REVISED WEST WALL WT Finish to WT-3
xxiii) D111 REAR LOBBY – REVISED Floor Finish to LVP-1
xxiv) D112 CORRIDOR – REVISED Floor Finish to LVP-1
xxv) D112 CORRIDOR – REVISED SOUTH, EAST and WEST WALL WT Finish to WT-3
xxvi) D113 MEN'S RR – REVISED WEST WALL WT Finish to WT-1
xxvii) D114 WOMEN'S RR – REVISED EAST WALL WT Finish to WT-1

42) A825 – INTERIOR DETAILS – BUILDING A-C
Added Sheet A825 and Details

43) A900D –
- i) Revised Floor Finish drawing due to room revisions @ D113 MEN'S RR , D114 WOMEN'S RR, and D115 PARCEL ROOM
- ii) Revised Floor Finish drawing due to wall removal @ D105 LEASING, D101 FRONT LOBBY
- iii) Revised Floor Finish to TF in D104 RESTOOM

Other	Refer to attached Addendum descriptions and attachments provided by Korda Engineering (Site/Civil), Prater Engineering (MEP), Jezerinac Geers (Structural) and EDGE (Landscape).

Attachments	Documents: RFP Revision 1 Issued by CMHA Specifications: 00 01 10; 01 23 00; 04 00 00; 04 72 00; 04 73 10; 06 40 00; 07 31 13; 07 46 33; 08 14 00; 08 36 13; 08 71 10; 09 29 00; 09 65 66; 10 22 21; 10 28 13; 11 31 00; 12 21 14; 12 32 00; 23 54 13; 23 62 14; 26 27 26; APPENDIX C Drawings: G001, G010, G010D, G100A, G100B, G100C, G100D, A001, A101A, A102A, A103B, A104B, A105C, A106D, A110G, A111G, A201A, A202A, A203B, A204B, A205C, A 206D, A310A, A310B, A310C, A310D, A310E, A401, A420, A421, A440, A442, A443, A470, A501, A502, A503, A504, A505, A506, A507, A508, A509, A513, A601, A610, A700, A710, A800A, A825, A900D. Refer to items listed under "Other" above.

RFI's	1. Sheet TS1 (Original Survey) is referenced on the drawing sheets listed above; however, sheet TS1 is not included in the drawings provided. *Response: Topographic survey will be included in future Addendum.* 2. Existing grades are not included in the Drawings noted above; existing contours are indicated but there are no elevations noted for the existing contours. *Response: Existing contour elevations are included in Addendum 01.* 3. Is there any significance to the darker line weights in the 3 Bed unit (Northeast Quadrant) of building D level 2? *Response: NO.*

4. Please confirm that the $75,000 allowance for FFE at the clubhouse includes labor to install the FFE.

   Response: The FFE allowance for Clubhouse has increased to $100,000 and includes labor to install.

5. The specification section referenced above states 'See VOLUME 3"; we did not find a Volume 3 in the documents provided. Is there Volume 3?

   Response: Typo: should read "See drawings for details / schedule." Specification will be updated.

6. Is there a basis of design manufacturer for the casework specified in specification section 12 33 55?

   Response: There is no manufactured plastic laminated casework.

7. Please confirm that the casework specification in section 06 40 00 is only for the clubhouse casework indicated on drawing sheet A512; and all other casework will be per specification section 12 33 55.

   Response: All Units will have manufactured wood cabinets as well as the bar and island in the Amenity Club Room.

8. There are no Access Control devices or CCTV cameras shown on the drawings and no specification included. Typically, card access is used on clubhouse facilities. Are any security systems or security device rough ins required at the clubhouse on site? Please advise.

   Response: Access controls have been added to sheet E107-D.

9. Garage G2 exterior disconnect has no size designation. Please confirm this disconnect is the same size as the 60/NF/2,3R as shown for garage G1 disconnect.

   Response: Yes, they are the same and the sheet has been updated.

10. Davis-Bacon requirements are not rates are not included in the documents. Please provide.

    Response: Davis Bacon rates are not required for the project. See attached RFP document issued in Addendum #1

11. Moisture & Mold Resistant Gypsum wallboard and Moisture & Mold resistant/glass-mat Gypsum Wallboard listed in specification 09 29 00 Gypsum Wallboard required compared to Moisture & Mold resistant Gypsum Wallboard?

    Response: Provide purple board at all walls and ceilings in the bathroom, pool equipment room, knee wall at kitchen island and mechanical rooms.

12. Specifications state to use MR board in drying rooms. Is a drying room a laundry room? Clarify drying room.

    Response: Note "drying room" is used in reference to examples where MR drywall would be used. Not all listed examples may be in the project. See drawings for other specific locations.

13. Abuse Resistant Gypsum Wallboard is listed in specification 09 29 00 Gypsum Board, however, is not noted where this is required. Provide locations if required.

    Response: No abuse resistant GWB in project. Specification section to be deleted under addendum 001

14. Impact resistant gypsum Wallboard is listed in specification 09 29 00 Gypsum board, however, is not noted where this is required. Provide locations if required.

    Response: No impact resistant GWB in project. Specification section to be deleted under addendum 001

15. Provide a section through the kitchen soffit above the kitchen wall cabinets.

    Response: Detail added as part of addendum #1. See sheet A825.

16. The building sections show level 3 with 9'-0" ceilings in the living room with no additional ceilings below. However, the RCP shows 8'-0" ceilings. Which is correct?

    Response: There is no additional (dropped or soffit) ceiling in the living rooms. The ceiling height is determined by the underside of the floor/truss assembly above. Refer to the revised Reflected Ceiling Plan (RCP) tags issued in Addendum #1 for clarification.

17. Level 1 building section shows the bathroom with 9'-0" ceilings with no additional ceiling below. However, the RCP shows 8'-0" ceilings. Which is correct?

    Response: 8'0" dropped ceiling to be provided in the bathroom. Section revised in Addendum #1

18. Please confirm that GAF "Slate line" shingles—between 8-12 weeks minimum.

    Response: Confirming information received.

19. If "Slateline" shingles will be used on this project, can IKO "crownslate" be an acceptable option as well? The specs also call for the shingles to be Class IV rated. The most economical shingle would a standard dimensional shingles like GAF "Timberline HDZ" or the IKO "Dynasty". Both are class III impact rated and more readily available. IKO again would offer the best pricing protection between the two with up to 90 days. See attached product data.

    Response: IKO is an acceptable manufacturer.

20. For the dumpster enclosures indicated on Drawing Sheets C101 & C204, what are the wall and gate materials & details.

    Response: Dumpster details added as part of addendum #1. See sheet A470.

21. The documents do not indicate downspout leaders to tie the downspouts into the storm system. Are downspout leaders required and if so, what is the layout?

    Response: Downspouts are required, and leaders will be provided on a future Addendum.

22. Is a Site Grading CADD file available to use for dirtwork cut & fill calculations?

    Response: CAD grading base are included in Addendum 01.

23. There is a Specification Section 05 12 00 Structural Steel; however we cannot find any references to structural steel on the drawings?? Please advise.

    Response: Section does not apply to this project. Please disregard, it will be removed from the Project Manual.

24. Electrical Site Plan does not include any ductbanks for primary communication to buildings and there is no Communication Site Plan. What is required for the Communication Utility Company primary cabling to the buildings?

    Response: Telecom company said that they will start to coordinate utilities when drawings are 100% complete and construction is about to start, so there are no details at this time.

25. Where does the site power originate from for this project? It is not shown on the Electrical Site Plan. The Code Site Plan shows some utility poles on the northside of the project, is this where the power is originating from? If so, what size ductbank is required? Also, which transformer will it go to first?.

    Response: Details have not yet been provided by the utility company, though the utility company will be installing the primary and secondary wiring, conduit, transformers, etc.

26. Level 01 Power Plan - Building D shows (5) data outlets in clubhouse. Are any additional required for the club or telecommunication demarcation point? There is no detail for cabling requirements to this outlets. How many Cat 6 cables are required for each outlet? Is this cabling by the electrical contractor or by the telephone company?

    Response: Telecom outlets shall be rough-ins as 4" boxes and will have a 1" conduit that will terminate above the ceiling or in an accessible location and be provided with a pull string.

27. No fixture description, manufacturer, catalog number, lamps, or remarks given for these fixtures. Please provide required information for pricing.

Response: Fixture schedule on sheet E400 updated.

28. Fire Alarm Vendor's understanding is that all units much have a less than 15' means of egress in these style of buildings or they will be required to have a full fire alarm system. Drawings call for Sprinkler monitoring only, please clarify this is all that is needed.

    Response: The sprinkler monitoring panel is all that is needed. Apartment units are equipped with smoke detectors and smoke/CO detectors.

29. Power Utility Company typically provides Secondary feeders to residential buildings in City of Columbus, we typically would provide non-residential building secondary feeders and give residential as alternate-adds. Please confirm this is acceptable.

    Response: Providing non-residential building secondary feeders is fine, residential feeders will be by the utility company, not as an add/alternate.

30. Specification call out (5) 1" conduits per flush mounted panelboards. Please confirm if this is necessary.

    Response: No, this is not necessary.

31. Voltage drop is not per NEC ; please confirm whether Feeder Schedules/Apartment Feeders chart is required to follow.

    Response: Yes, follow apartment feeder chart/schedule, which include voltage drop to the units.

32. Drawings state all 125A panel feeders in apartments to be ran in #1/0 aluminum SER.Per NEC Table 310.16 (see 75 degree column) #1/0 is only good for 120A, Apartment load. Please confirm #1/0 is acceptable.

    Response: NEC Table 310.12 allows for apartment units to be fed with #1/0 aluminum.

33. Devices listed as all 20A; panel schedules show all 20A wiring, but wiring specifications state 14 gauge wiring acceptable where allowable per NEC. Are 15 amp devices and breakers acceptable where 14 gauge wire is allowable or shall all wiring be 12 gauge (20A)?

    Response: All wiring will be #12 awg, and 20A circuit breakers minimum.

34. Pool Equipment Rooms typically are to be non-corrosive environments, please confirm feeders to be of non-corrosive type in this area.

    Response: Pool rooms are corrosive environments and noting has been added to sheet E107-D to provide corrosion resistant conduit/materials.

35. Per drawings, breezeways are decking with vinyl cover. Is it permissible to run SER through the decking to avoid long runs through the attic for unit panel feeders?

Response: Yes, this is preferred.

36. Is series rating acceptable for unit breakers?

    Response: No, series rating is unacceptable.

37. Drawings do not include building house panel schedule(s), please advise.
    Response: House panel schedule has been added to sheet E302.

38. Unit Panel Schedule is a compilation of multiple unit types, assuming extra arc fault breaker per additional bedroom, please confirm.

    Response: Unit panel schedule shown on sheet E302 is the panel schedule for the largest unit type, 3 bedroom. Thus, smaller unit types will have spare breakers in them.

39. Are there any Owner furnished Products for this project? Please advise.

    Response: No. EV chargers are contractor purchased and contractor installed.

40. While trying to piece together the 5 match line sections of the grading/storm plans, I notice a slight problem. Sheet 4/24 is the overall site grading / storm plan. Sheet 6/24 is the upper right section and sheet 8/24 is the lower right section. Neither of these 2 sheets align with the overall plan, sheet 4/24, yet they do align with the sections immediately to their left respectively. sheet 6/24 aligns with 5/24 and sheet 8/24 aligns with 7/24.

    Response: Please provide further clarification. Each individual sheet (4-8/24) include matchlines, and a key map showing it's location, and all are correct. The viewport does expand further to the east than the overall plan sheet, but I do not see any other discrepancy.

41. We did not find any basis of design model numbers or specific product criteria for any of the residential appliances either in the specification or on the drawings. Please clarify residential appliances specifics.

    Response: Residential Appliance specs has been provided in Addendum #1

42. Pole Base Detail on drawing says for light pole, refer to fixture schedule. Fixture schedule does not indicate size of pole, square/round, steel/aluminum? Please provide size and type of light pole required.

    Response: Pole specification added to fixture schedule on sheet E400.

43. Please verify that Power Pedestals are acceptable for Tempoary Service?

    Response: Yes, Power Pedestals are acceptable for temporary service.

44. Are the EV Chargers owner or contractor provided? If contractor provided, please provide specifications on EV Charger.

    Response: Yes, EV chargers will be contractor provided. Use Chargepoint 4021 dual charging bollard with standard power sharing.

45. Drawing E401-Detail Apartment Telecom Wiring Diagram says that the Cat 6 cable and the RG6 Coaxial from the flush enclosure in apartment to the telephone outlets in the apartment unit is by the electrical contractor. Specification Section 270528 1.01.C, states all low voltage cabling, outlet jacks and associated equipment will be installed by others, unless noted otherwise, during construction prior to closure of walls and ceilings. Is there communication cabling required by the electrical contractor for this project? Please clarify the scope of work in all buildings required by the electrical contractor, which may include data outlets in the clubhouse and phone lines to sprinkler monitoring panels. Also, please provide 27 00 00 specifications for any and all work required.

    Response: Response will be provided in next Addendum.

46. Will telecom outlets be required in each of the apartment bedrooms? None are shown in apartment enlarged unit electrical plans at this time, but typically see this included in these types of projects. Please advise.

    Response: Response will be provided in next Addendum.

47. General Note 4 on C101 calls for "striping paint with glass beads" and "provide two coats". The specification section referenced above calls for pavement markings to be per CMSC Section 640. CMSC Section 640 and referenced sections seem to indicate glass beads and 2 coat application for pavement markings. CMSC Section 641.08 seems to allow an exception for parking lot stall markings not adjacent to traffic. Please confirm or clarify if pavement markings require glass beads and 2 coat application.

    Response: CMSC Section 641.08 states that parking lot stall markings that are not adjacent to street traffic are not required to be retroreflective, which is acceptable. Two coat application is required.

48. Handicap post signs (Detail I on Sheet C107) are not obviously indicated on the drawings. Please confirm that handicap post signs are to be included at each handicap parking spot.

    Response: Specific signage labels are included in Addendum 01.

49. Elevations 4 and 5 on Sheet A501 show Coded Note - Interior Elevations 9 at both ends of the Kitchen island. Coded Note 9 indicates a Paper Towel Holder which does not seem correct; we would anticipate Coded Note 6 at these locations. Please confirm or correct Coded Note 9 at the ends of the Kitchen island.

    Response: This has been addressed in Addendum #1

50. Coded Note 2 calls for Adjustable Closet Shelf/Rod and is indicated for all Bedroom closets; however, General Note PP calls for fixed shelf and rod in the Bedroom & Coat Closets. Additionally Coded Note 2 is indicated for the Coat Closet in the 3 Bedroom Unit on Sheet A504, and not indicated for the Linen Closets as called for in General Note PP. Please clarify which closet shelf/rods are adjustable.

    Response: Coded notes fixed in addendum #1.

51. Many of the Coded Note Legend - Floor Plan notes on Sheet A106D are not referenced/located on the Level 01 - Floor Plan.

    Response: Addressed in Addendum #1

52. Are any blinds or window treatments required at glass patio doors?

    Response: Vertical blinds at Glass Patio doors.

53. Entrance Mats / Entrance Carpet are included in the Specifications and included in the Finish Legend on Sheet A800A; however, these items are not referenced in any of the Finish Plans or Finish Schedules.

    Response: No entrance mats / Carpet required - will update in addendum #1

54. The Site Furnishing specification includes Trash Receptacles, Planters, and Benches; none of these items are indicated on the drawings. If any of these items are required, please locate them on the plans

    Response: See detail #2/ L1.04 and schedule for site furnishings.
    Spec section 12 93 00 was not provided and can be omitted.

55. Please confirm that the removal of felled trees on the site is to be included in this project.

    Response: Yes., contractor is responsible for removal of felled trees.

56. Questions regarding Toilet Accessories:
    1) The specs for the toilet accessories don't necessarily match the items needed in the residential units. Are we good to assume that the items in the specs are for community bathrooms?

    Response: Addressed in addendum #1.

    2) Are there any other toilet accessories required in the units other than the shower rod, towel bar, and grab bars (in ANSI Type A units) that are keynoted in the drawings? Please confirm that toilet paper dispensers are needed in the units. Are there model numbers or at least a manufacturer for these items?

    Response: Addressed in Addendum #1.

57. While there is a Signage Schedule on the drawings and Specification sections for signage, we did not find signage located on the plans or elevations. Please provide direction for where signage, interior & exterior, should be included.

    Response: Minimum code required signage as indicated on life safety plans.

58. Can Nexgen MgO Subfloor be approved as an acceptable manufacture for the subfloor? Please advise.

    Response: The product has been reviewed by the Owner and A/E team. It is not being accepted as a substitute for the SAP board product currently specified.

59. Split System Heat Pump Unit Schedule located on drawing H300, Note 9, states outdoor units shall be installed as described in Specification 23 62 14. This specification section is not included in the current specs. Please provide.

    Response: Added missing spec section in ADDENDUM #1.

60. Drawing Sheet C304 does not appear to be the correct scale. Also this Drawing does not include all of the Sanitary work for that area of the project.

    Response: The drawing scale will be corrected in Addendum 01. Sheet C304 is part of the series of sanitary drawings and does not include the entire scope. C302 shows the entire site, and is then broken down by 20 scale viewports which are now on sheets C303-C307.

61. Sanitary Profiles for Manholes 2 - 5 and the connections of new sanitary system to the existing sanitary system other than Manhole 1 (2 locations) are not included.
    Response: Profile added.

62. No scale is provided on Drawing Sheet C401.

    Response: Scale included in Addendum 01.

63. Can the Clubhouse Fire Protection be Per NFPA 13R in lieu of NFPA 13? It is more cost effective. Please advise.

    Response: NFPA 13R cannot be used in lieu of NFPA 13 for Clubhouse.

64. Enlarged Unit HVAC Plans for 3 Bedroom 2 BA, 3 Bedroom ANSI Type A & 3 Bedroom Clubhouse are not included in drawing set.

Response: Providing the missing enlarged unit HVAC plans in Addendum 1 that will include the 3-bedroom units.

65. Enlarged Unit Plumbing Plans for 2 Bedroom 2 BA, 2 Bedroom ANSI Type A & 2 Bedroom ANSI Type B are not included in drawing set. Also Enlarged Unit Plumbing Plan is missing for 3 Bedroom ANSI Type A.

    Response: All Plumbing enlarged plans and orientations have been included in Addendum #1. Completed plumbing layouts will be included in the final addendum.

66. What is the intent of the exterior sheathing and air barrier? The wall sections list both OSB and Zip and an air barrier, please clarify.

    Response: Please clarify what detail/wall section you are referring to. Can the bidder provide reference a particular detail. The exterior sheathing of the wall is to be the insulated zip system which has an integral air barrier surface on the OSB panel. In locations with the manufactured stone an additional water-resistive drainage mat is required over the zip system for water drainage of the stone cladding system.

67. Will door hardware sets be released?

    Response: Hardware will be included in Addendum #1.

68. Can details of the mailboxes and locations be provided?

    Response: The initial mailboxes should be shown on A443.
    The construction details have been more developed and will be released in addendum 001.

69. Can details of the dumpster enclosures, foundation, walls, gates, etc. be provided Is reinforcement required in the slab on grades?

    Response: Details are included in Addendum #1. See Arch sheet A470 and See civil drawings for dumpster pad and apron concrete requirements (reinforcement is not required).

70. Specs for the toilet accessories don't necessarily match the items needed in the residential units, what is needed in the units other than the shower rod and towel bar that are keynoted in the drawings, please clarify. What are the model number or at least manufacturer they want it from? Should we assume that the items in the specs are for community bathrooms?

    Response: Addressed in addendum #1

71. Page A501, keynote 9 states "Paper Towel Holder" but it doesn't seem like an accessory based on the elevation. Can you confirm?

    Response: Corrected in addendum #1

72. Can PW rates be provided?

    Response: Prevailing Wages are not applicable to the project.

73. Can an appliance schedule be provided? There are no models indicated on the plans and specifications. Do the Laundy need to be E-Star?

    Response: Appliance schedule is included in Addendum #1. Laundry equipment to be provided by tenants so no Energy star requirements.

74. The exit/egress fixtures are installed on local lighting circuits. Specs say "All exit and emergency wiring shall be as shown on the Drawings and shall be run in a separate conduit from any other wiring. Branch circuit wiring shall be #10 THHN minimum." 3.05 Section 260519 Wire and Cable. Please clarify the requirements for the exit signs?

    Response: Wire onto local lighting circuit, see General note L on drawings.

75. In the apartment units do you want EMT, MC, or NMB? It is wood studs, but the specs say three different things. Section 261519 Wire and Cable, 2.10, note "J" states "Type MC cable for branch circuit shall be of the single circuit type with stranded #10 AWG and #12 AWG sizes only with green ground wire. MC Cable may be used between meter centers and apartment unit load centers, with feeder sizes as indicated on the drawings. MC Cable may only be used in stud walls and above accessible ceilings." Note "L" states "Type NM cable may be used concealed in stud walls and above ceiling for lighting, receptacle, motor and fixed equipment branch circuits in #12 AWG and #10 AWG sizes only, sized as indicated on the drawings in areas of Type III, IV, and V construction only, and conforming with the requirements of Article 334 of the NEC." Section 260533 2.01 note "A" states "All wiring in building interior including feeders, branch circuits and auxiliary wiring shall be run in thin wall (EMT) conduit."

    Response: Use NM Cabling for apartment units. EMT and MC will be utilized in other locations.

76. The devices are specified as extra heavy duty/ industrial grade. Are commercial grade/spec grade acceptable devices?

    Response: Yes, Commercial grade is acceptable, specs will be updated per commercial grade as industrial was unintended.

77. The hollow metal frame specifications call for terminated stops on all interior door frames. Please confirm.

Response: It's not necessary to have terminated stops for Unit/Garage door frames. Clubhouse interior doors will have terminated stops.

78. The doors specifications call for factory finished plain sliced red oak veneer doors. In a project like this, we typically see paint grade doors (hardboard or paint grade hardwood). Please confirm.
    Are interior unit doors to be 1-3/4" solid core, or can they be 1-3/8" hollow core?

    Response: All interior doors can be a hollow core for units, and Solid core for clubhouse.

79. Hardware manufacturers listed in the specifications call for Sargent mortise locks, Von Duprin or Sargent exit devices and LCN closers. Again, we usually see grade 2 commercial hardware for common areas and residential grade hardware for the unit interiors.

    Response: Will be addressed in future Addendum.

80. Door Hardware Supplier would like to use Schlage locksets and keypad locks and Primus high security cylinders in place of specified Sargent products. See details on the following pages.

    Response: Schlage is an accepted manufacturer. Please provide a substitution request in addition to information already provided.

81. Is Patterson Pools the contractor we have to use for the pool install?

    Response: During the pre-submission meeting, it was noted that a different contractor could be used, but the design had to remain the same. After further discussion, Patterson Pools will be submitting for ODH permit and will be required to be used.

82. Are there any other materials which are required to be sole sourced?

    Response: Yes, the ABS material in the civil drawings has to be used according to plans since it has been submitted to the City that way.

83. Are substitution requests allowed?

    Response: Yes, but the substitution request form in the specifications needs to be used. Please try to put all substitution requests in during bidding so an Addendum can be issued to capture all additions.

84. Is MBE/WBE a requirement?

    Response: No, however it is a goal of CMHA and it is requested all contractors do what they can to assist CMHA in meeting those goals.

85. Does the % of MBE / WBE participation need to be listed on the GMP submission.

Response: Yes.

86. Please confirm that the contract negotiations with the highest-ranked firm will be conducted at 100% docs.

    Response: Confirmed.

87. Are there any LEED requirements?

    Response: No.

88. For the submission of an electronic copy, is a flash drive preferred?

    Response: Yes.

89. Please confirm it is the design intent to have an insulated zip system with air/water barrier under a separate air barrier behind cast stone masonry veneer.

    Response: Yes. Per the details there is to be an additional water-resistive drainage mat placed behind the manufactured stone for drainage of the stone cladding over the insulated zip system board with the integral air barrier.

90. Please advise the Slab on Grade thicknesses at Walk up units, Garages, and Clubhouse. Additionally, please provide any necessary reinforcement and the thickness and type of subgrade. Assume 4"

    Response: Refer to Structural drawings for indicated slab thickness.

91. Specifications call for vinyl windows to be black but doesn't specify if that is for both interior and exterior. Please advise if both sides of the window are to be black or if the interior should be white with black exterior? It should be black exterior white interior

    Response: The windows will have a black exterior and white interior. The Specs will be revised in a future addendum. Sliding doors at balconies are also to have black exterior.

92. Missing Specification for Overhead Doors

    Response: Spec added in Addendum #1

93. Finish Schedule Missing Manufactures, Styles, and Colors for Carpet and Tile (A800A)

    Response: This has been addressed in Addendum #1.

94. Door Hardware missing on Door Schedule (A700)

    Response: Addressed in addendum #1

95. Grading Plans Missing Elevations

    Response: Will be addressed in future addendum.

96. Coded note 6 refers to panelized wall mirrors which are not shown on the drawings. Please confirm if these are required and provide a location.

    Response: Panelized mirrors will be provided in the fitness room. Addressed in Addendum #1.

97. There should not be any FRT framing requirements for this construction type, (type 5B)

    Response: FRT not required.

98. Shouldn't need FRT framing at garages (same as #9)

    Response: NO FRT required at Garages

99. Confirm you want paper towel holders drilled/mounted to the island cabinet? Elevation 4 also calls for (2) towel holders?

    Response: No paper towel holders at kitchen island. Addressed in addendum #1.

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Request for Proposals (RFP)
For Construction Manager at Risk
(CMAR) Services for:
THE FALLS

Introduction

The Columbus Metropolitan Housing Authority (CMHA) is requesting proposals from Construction Management at Risk (CMAR) firms for the site development and construction of a new multi-family community located at 3355 Refugee Rd, Columbus, Ohio 43232.

CMHA anticipates awarding a contract for construction upon price and qualifications, based on the requested criteria within this RFP.

The Project

The Falls development will consist of ten three-story walk-up-style buildings, eight garage buildings, and a clubhouse, for a total of 220 units on 8.5 acres. Programming will consist of one, two, and three-bedroom units, a clubhouse with a rental office, clubroom, fitness facility, and outdoor amenity space with pool. The exterior will include a combination of stone veneer and vinyl siding. The roof system will be dimensional shingles. Vinyl window systems are proposed.

General Information

When compiling proposals, GMP shall be based on the listed plan set **(EXHIBIT A)** and project Specifications are listed as (**EXHIBIT B**). All respondents must sign drawing and specification index **(EXHIBIT C)**. Any significant modifications made to this design prior to the proposal due date will be added as addenda to this RFP. Receipt of all Addenda must be acknowledged within the proposal (**EXHIBIT E**).

Anticipated Construction Budget: $34,000,000
Anticipated Construction Duration: 18 months
Assumed start date: November 2025.
This project will be sales tax-exempt.
~~This project will be subject to Davis-Bacon wage rates (residential rates)~~
CMHA has confirmed that this project will **NOT** require Davis Bacon Wages.
The construction contract will depend on the CMHA board approval.
The CM will be responsible for paying for utilities prior to substantial completion.

Proposal Schedule

A Pre-submission meeting will be held on **Wednesday, May 21, 2025, at 10:00 AM** at CMHA headquarters located at 880 East 11th Avenue, Columbus, Ohio 43211

Final questions regarding this project are due no later than **Wednesday, July 9, 2025, at 4:00 PM**. Late submissions will not be accepted. Address questions to:

Mike Wagner mwagner@cmhanet.com
Anup Janardhanan anupj@moodynolan.com
Chris Belcastro cbelcastro@cmhanet.com

Deliver sealed proposals to 880 East 11th Ave, Columbus, Ohio 43211, no later than **Thursday, July 17, 2025, at 11:00 AM**. Late submissions will not be accepted.

Attention: Michael Wagner, Vice President of Construction
Chris Belcastro, Assistant Vice President of Construction

Award notifications will be announced by the close of business on **Wednesday, July 30, 2025.**

Proposal Format and Requirements

All Proposals shall utilize the attached Exhibits. Two hard copies and one electronic copy shall be submitted to CMHA in a sealed envelope.

Respondents are solely responsible for any costs incurred in preparing or submitting Proposals for the project.

When received, all responses, inquiries, or correspondence relating to this RFP will become the property of CMHA and shall be regarded as public record.

CMHA reserves the right to:

- Refuse any or all submittals received.
- Cancel or modify this RFP at any time.
- Request further documentation or information and discuss an RFP submittal to answer questions or provide clarification.

The submission package must be signed by an officer of the respondent who is legally authorized to enter a contractual relationship on behalf of the respondent.

Qualifications. All submission packages should be bound and tabbed by sections as follows:

1. Title Page

   - The Title Page shall include the Request for Proposal subject, the firm's name, address, telephone number, e-mail address of the contact person, and the date of the proposal.

2. Statement of Firm's Qualifications

   - Provide a brief history of the firm, its size, and the office location from which the work on this project will be performed.
   - Provide information about the firm's experience working with affordable housing.
   - Provide EMR score relating to job site safety.

3. Project team and staff experience

- Identify the principal supervisory and management staff, including partners, managers, other supervisors, and specialists, who would be assigned to the project.
- Provide information on the experience of each person and longevity with the firm.

4. Relevant Experience

- List the most comparable projects (maximum of 4) performed in the last five (5) years, as described in this RFP.
- Indicate the original budget versus final contract amount, and project duration versus time to completion.
- Indicate the name and telephone number of the principal client contact.

5. Specific Project Approach and Schedule

The proposal shall set forth a work plan that describes how you propose accomplishing the tasks outlined in the scope of services. The work plan should address at a minimum:

- A quality management plan would be proposed to be incorporated.
- Project management methods, including staffing
- Project progress reporting to the owner
- Project schedule management and approach

6. Arbitration, Mediation and Litigation History

- List any claims, disputes ending in mediation, arbitration, or litigation associated with any project (initiated either by your company or against your company) in the past five (5) years that has not been settled/adjudicated in your favor.
- State whether your firm has been terminated for cause on any project within the past ten (10) years and, if so, attach a description of each instance.

GMP proposal. Shall be sealed in a separate envelope and labeled GMP Proposal within the sealed submission.

The CMAR will assume responsibility for the project site and all construction costs by issuing a guaranteed maximum price (GMP) based on the CSI 32 division format. As a part of the firm's GMP proposal, the CM will also submit:

- Break out Cost for CM Fees
- Break out cost for general conditions.
- Break out cost for Contractor construction contingency.
- Break out cost of Builder's Risk policy.
- Break out cost for General Liability Insurance.
- Clarifications and assumptions list.
- Overall project schedule.
- Site logistics plan.
- Phasing plan (CMHA intends to bring the clubhouse and a portion of the residential buildings online ASAP).

- Safety plan.
- Training and closeout plan.

Selection Process

1. The Selection Committee will review all proposals received in accordance with the following criteria:

    - Fees (Objective) 50 points. (Total GMP Submission)
    - Firm Qualifications (Subjective) 10 points
    - Staffing experience (Subjective) 10 points.
    - Similar project experience (Subjective) 20 points.
    - Project approach (Subjective) 5 points
    - Arbitration and mediation (Subjective) 5 points

2. The Selection Committee reserves the right to interview all qualified firms.

3. The Selection Committee will recommend contract negotiations with the highest-ranked firm. If negotiations are unsuccessful, CMHA will negotiate with the second-ranked proposer, and so on.

Owner/Construction Manager at Risk Agreement

The Construction Manager at Risk (CMAR) will be under contract to execute construction services under the **Consensus Docs 500 agreement** to complete the project and place the Owner in occupancy of the project in a "turnkey" fashion. The Owner has contracted with the Architect separately from the CMAR. The CMAR shall hold all trade contracts and trade supplier contracts.

Minority Business Enterprises (MBE) Participation

Columbus Metropolitan Housing Authority is committed to ensuring economic opportunities for minority business enterprises (MBEs). For guidance related to MBE, refer to **Exhibit C**.

List of Exhibits

EXHIBIT A
Plan set dated 5/01/2025

EXHIBIT B
Specifications dated 5/01/2025

EXHIBIT C
Drawing Index & Specifications Table of Contents (signature required)
Must include with GMP Submission

EXHIBIT D
Minority Business Enterprise (MBE)

EXHIBIT E
Addenda acknowledgement form
Must include with GMP Submission

Jezerinac Geers
Structural Engineering

CMHA Refugee Road May 30, 2025
JGA Project 24.35.061

Addendum 1 Narrative

Refer to the attached updated sheets and descriptions below.

S002 – Typical Details
1) Added details 1 & 13.

S101-A, S103-B, S105-C – 2nd Floor Framing Plan (Buildings A, B & C)
1) Revised breezeway stair framing.

S102-A, S104-B, S106-C – 3rd Floor Framing Plan (Buildings A, B & C)
1) Revised breezeway stair framing.

S107-D – 2nd Floor Framing Plan (Building D)
1) Added shear wall locations.
2) Added stud pack locations to support the shear walls above.
3) Revised Lobby/Leasing area to remove the wall and replace with trusses under the walls above.
4) Added detail 19/S310 to show new condition under the demising wall above.

S108-D – Roof Framing Plan (Building D)
1) Added shear wall locations.

S109-G – Roof Framing Plan (Buildings G1 & G2)
1) Added shear wall locations.

S200 – Shear Wall Schedule and Details
1) Revised shear wall schedule.

S310 – Framing Details
1) Added detail 19.

End of Narrative.

Jezerinac Geers & Associates, Inc.
5640 Frantz Road, Dublin, OH 43017
614.766.0066
www.jgaeng.com

ADDENDUM NO. 1

Owner: Columbus Metropolitan Housing Authority

Project: The Falls on Refugee Road
3355 Refugee Road
Columbus, OH 43232

AUTOCAD

1. CAD base with proposed contours.

DRAWINGS

1. SHEET C101 – OVERALL STAKING PLAN
    A. **REMOVE** Refugee Road fire access drive.
    B. **REVISE** building footprints.
    C. **REMOVE** sidewalk east of building A1.
    D. **REVISE** dumpster concrete pad locations.
    E. **ADD** sanitary easement.
    F. **REVISE** Schwartz Road drive pavement to concrete and curb and gutter.
    G. **ADD** detectable warning to all curb ramps.
    H. **REVISE** sidewalk for benches in courtyard.
    I. **REVISE** storm easement.
    J. **ADD** ADA parking signs.
    K. **ADD** sidewalk along east side of Schwartz Road.

2. SHEET C102 – STAKING PLAN
    A. **REMOVE** Refugee Rd fire access drive.
    B. **REVISE** building footprints.
    C. **REMOVE** sidewalk east of building A1.
    D. **ADD** detectable warning to all curb ramps.
    E. **REVISE** sidewalk radii west of building A4.
    F. **ADD** sanitary easement.

G. **ADD** ADA parking signs.
H. **ADD** sidewalk along east side of Schwartz Road.

3. SHEET C103 – STAKING PLAN
   A. **REMOVE** Refugee Rd fire access drive**.**
   B. **REVISE** building footprints**.**
   C. **ADD** sanitary easement**.**
   D. **ADD** detectable warning to all curb ramps**.**
   E. **REVISE** side walk for benches in courtyard**.**
   F. **ADD** ADA parking signs.

4. SHEET C104 – STAKING PLAN
   A. **REVISE** building footprints**.**
   B. **ADD** sanitary easement**.**
   C. **ADD** detectable warning to all curb ramps**.**
   D. **REVISE** Schwartz Rd drive pavement to concrete and curb and gutter**.**
   E. **ADD** callout for 25' parking setback**.**
   F. **ADD** ADA parking signs.
   G. **ADD** sidewalk along east side of Schwartz Road.

5. SHEET C105 – STAKING PLAN
   A. **REVISE** building footprints**.**
   B. **ADD** sanitary easement**.**
   C. **ADD** detectable warning to all curb ramps**.**
   D. **ADD** ADA parking signs.

6. SHEET C106 – STAKING PLAN
   A. **REVISE** building footprints**.**
   B. **ADD** sanitary easement**.**
   C. **ADD** detectable warning to all curb ramps**.**
   D. **ADD** ADA parking signs.

7. SHEET C107 – STAKING DETAILS
    A. **REVISE** Details B & I**.**

8. SHEET C108 – STAKING DETAILS
    A. **ADD** Detail B**.**

9. SHEET C201 – TITLE SHEET
    A. **REVISE** index map scale from 1'=150' to 1"=100'**.**
    B. **REMOVE** Refugee Rd fire access drive**.**
    C. **REVISE** estimate of quantities table**.**
    D. **REVISE** standard drawings list**.**
    E. **REVISE** post construction stormwater control table**.**
    F. **REVISE** 100-year detention table**.**
    G. **REVISE** storm sewer layout.
    H. **REVISE** storm structure numbering**.**

10. SHEET C202 - GENERAL NOTES
    A. **REVISE** division of power note.

11. SHEET C204 – OVERALL STORM SEWER & GRADING PLAN
    A. **REVISE** grading legend**.**
    B. **REVISE** building footprints**.**
    C. **REVISE** stormwater underground detention.
    D. **REVISE** storm sewer layout.
    E. **REVISE** storm structure numbering**.**
    F. **REMOVE** Refugee Rd fire access drive**.**
    G. **REVISE** proposed contours**.**
    H. **ADD** 100-year elevation callout.
    I. **ADD** curb and gutter to Schwartz Road drive.
    J. **REVISE** water service building connections and hydrant locations.
    K. **ADD** sidewalk along east side of Schwartz Road.

12. SHEET C205 – STORM SEWER & GRADING PLAN

A. **ADD** elevations to existing contours.
B. **REVISE** storm sewer layout**.**
C. **REVISE** building footprints**.**
D. **REVISE** sanitary sewer layout**.**
E. **REVISE** proposed contours**.**
F. **ADD** sanitary easement.
G. **REMOVE** storm structure 30 north of building A1.
H. **REVISE** storm sewer structure coordinates table.
I. **REVISE** coded note 1 and 3.
J. **REVISE** coded note 1 and 3.
K. **REVISE** water service building connections and hydrant locations.
L. **ADD** downspout locations.
M. **ADD** sidewalk along east side of Schwartz Road.

13. SHEET C206 – STORM SEWER & GRADING PLAN

A. **ADD** elevations to existing contours.
B. **REVISE** storm sewer layout**.**
C. **REVISE** building footprints**.**
D. **REVISE** sanitary sewer layout**.**
E. **REVISE** storm structure numbering**.**
F. **REVISE** proposed contours**.**
G. **REVISE** coded note 1 and 3.
H. **REVISE** storm sewer coordinate table.
I. **REVISE** building A2 fire water service connection**.**
J. **REVISE** building A5 fire and domestic water service connections**.**
K. **REVISE** hydrant locations
L. **ADD** FDC locations for reference.
M. **ADD** sanitary sewer easement**.**
N. **REMOVE** Refugee Rd fire access drive.
O. **ADD** downspout locations.

14. SHEET C207 – STORM SEWER & GRADING PLAN

A. **ADD** elevations to existing contours.
B. **REVISE** storm sewer layout**.**
C. **REVISE** building footprints**.**
D. **REVISE** sanitary sewer layout**.**
E. **REVISE** storm structure numbering**.**
F. **REVISE** proposed contours**.**
G. **REVISE** coded note 1 and 3.
H. **REVISE** storm sewer coordinate table.
I. **REVISE** building A3, A4, B2, C1 and clubhouse fire water service connection**.**
J. **REVISE** clubhouse domestic water service connections**.**
K. **REVISE** hydrant locations
L. **REVISE** underground detention and SCP easement.
M. **ADD** FDC locations for reference.
N. **ADD** sanitary sewer easement**.**
O. **ADD** downspout locations.
P. **ADD** sidewalk along east side of Schwartz Road.

15. SHEET C208 – STORM SEWER & GRADING PLAN

A. **ADD** elevations to existing contours.
B. **REVISE** storm sewer layout**.**
C. **REVISE** building footprints**.**
D. **REVISE** sanitary sewer layout**.**
E. **REVISE** storm structure numbering**.**
F. **REVISE** proposed contours**.**
G. **REVISE** coded note 1 and 3.
H. **REVISE** storm sewer coordinate table.
I. **REVISE** building C2 fire water service connection**.**
J. **REVISE** building A5 and Clubhouse fire and domestic water service connections**.**
K. **REVISE** hydrant locations
L. **ADD** FDC locations for reference.
M. **ADD** sanitary sewer easement**.**

N. **ADD** downspout locations.

16. SHEET C209 – STORM SEWER & GRADING PLAN
    A. **ADD** elevations to existing contours.
    B. **REVISE** building footprints**.**
    C. **REVISE** proposed contours**.**
    D. **REVISE** coded note 1 and 3.
    E. **REVISE** storm sewer coordinate table.
    F. **REVISE** building B2 fire water service connection**.**
    G. **ADD** FDC locations for reference.
    H. **ADD** downspout locations.

17. SHEET C210 – STORM SEWER DETAILS
    A. **REVISE** Details A, B, C, and E.
    B. **ADD** Detail D, sediment accumulation measurement monitor post for north basin.

18. SHEET C211 – STORM SEWER DETAILS
    A. **REVISE** Details A and C.
    B. **ADD** Detail D.

19. SHEET C212 – STORM SEWER DETAILS
    A. **REVISE** Detail A and B.
    B. **REVISE** underground detention volume summary table.

20. SHEET C214 – STORM SEWER PROFILES
    A. **REVISE** profiles**.**

21. SHEET C215 – STORM SEWER PROFILES
    A. **REVISE** profiles**.**

22. SHEET C216 – STORM SEWER PROFILES
    A. **REVISE** profiles**.**

23. SHEET C217 – OVERALL EROSION AND SEDIMENT CONTROL PLAN
    A. **REVISE** storm sewer routing**.**
    B. **REVISE** building footprints.
    C. **REVISE** legend.
    D. **REVISE** SUB-SUMMARY OF EROSION CONTROL items table.
    E. **ADD** sidewalk along east side of Schwartz Road.

24. SHEET C218 – EROSION AND SEDIMENT CONTROL PLAN
    A. **ADD** elevations to existing contours.
    B. **REVISE** building footprints**.**
    C. **REVISE** proposed contours**.**
    D. **REVISE** building B2 fire water service connection**.**
    E. **ADD** FDC locations for reference.
    F. **ADD** sidewalk along east side of Schwartz Road.

25. SHEET C219 – EROSION AND SEDIMENT CONTROL PLAN
    A. **ADD** elevations to existing contours.
    B. **REVISE** building footprints**.**
    C. **REVISE** proposed contours**.**
    D. **REVISE** building B2 fire water service connection**.**
    E. **ADD** FDC locations for reference.

26. SHEET C220 – EROSION AND SEDIMENT CONTROL PLAN
    A. **ADD** elevations to existing contours.
    B. **REVISE** building footprints**.**
    C. **REVISE** proposed contours**.**
    D. **REVISE** building B2 fire water service connection**.**
    E. **ADD** FDC locations for reference.
    F. **ADD** sidewalk along east side of Schwartz Road.

27. SHEET C221 – EROSION AND SEDIMENT CONTROL PLAN

A. **ADD** elevations to existing contours.
B. **REVISE** building footprints**.**
C. **REVISE** proposed contours**.**
D. **REVISE** building B2 fire water service connection**.**
E. **ADD** FDC locations for reference.

28. SHEET C222 – EROSION AND SEDIMENT CONTROL PLAN
    A. **ADD** elevations to existing contours.
    B. **REVISE** building footprints**.**
    C. **REVISE** proposed contours**.**
    D. **REVISE** building B2 fire water service connection**.**
    E. **ADD** FDC locations for reference.

29. SHEET C223 – EROSION AND SEDIMENT CONTROL DETAILS
    A. **REVISE** Detail D.

30. SHEET C224 – EROSION AND SEDIMENT CONTROL DETAILS
    A. **REVISE** Details A and B.

31. SHEET C225 – DRIVE DETAILS
    A. **ADD** sheet.

32. SHEET C226 – GRADING DETAILS
    A. **RENUMBER** sheet.

33. SHEET C301 – TITLE SHEET
    A. **REVISE** Index Map**.**
    B. **REVISE** Estimate of Quantities**.**
    C. **REVISE** Sheet Index.

34. SHEET C302 – TRIBUTARY MAP
    A. **ADD** sheet.

35. SHEET C303 – SANITARY PLAN

A. **REVISE** building footprints**.**
B. **REVISE** sanitary sewer routing.
C. **ADD** sanitary easement.
D. **REVISE** SANITARY SEWER STRUCTURE COORDINATES table**.**
E. **ADD** SANITARY SEWER TABLE.
F. **ADD** Service line labels.
G. **REVISE** storm sewer routing.
H. **REVISE** water service routing.
I. **ADD** sidewalk along east side of Schwartz Road.

36. SHEET C304 – SANITARY PLAN

A. **REVISE** building footprints**.**
B. **REMOVE** fire access road.
C. **REVISE** sanitary sewer routing.
D. **ADD** sanitary easement.
E. **REVISE** SANITARY SEWER STRUCTURE COORDINATES table**.**
F. **ADD** SANITARY SEWER TABLE.
G. **ADD** Service line labels.
H. **REVISE** storm sewer routing.
I. **REVISE** water service routing.

37. SHEET C305 – SANITARY PLAN

A. **REVISE** building footprints**.**
B. **REVISE** sanitary sewer routing.
C. **ADD** sanitary easement.
D. **REVISE** SANITARY SEWER STRUCTURE COORDINATES table**.**
E. **ADD** SANITARY SEWER TABLE.
F. **ADD** Service line labels.
G. **REVISE** storm sewer routing.
H. **REVISE** water service routing.

I. **ADD** sidewalk along east side of Schwartz Road.

38. SHEET C306 – SANITARY PLAN
    A. **REVISE** building footprints**.**
    B. **REVISE** sanitary sewer routing.
    C. **ADD** sanitary easement.
    D. **REVISE** SANITARY SEWER STRUCTURE COORDINATES table**.**
    E. **ADD** SANITARY SEWER TABLE.
    F. **ADD** Service line labels.
    G. **REVISE** storm sewer routing.
    H. **REVISE** water service routing.
39. SHEET C307 – SANITARY PLAN
    A. **REVISE** building footprints**.**
    B. **REVISE** SANITARY SEWER STRUCTURE COORDINATES table**.**
    C. **ADD** SANITARY SEWER TABLE.
    D. **ADD** Service line labels.
    E. **REVISE** storm sewer routing.
    F. **REVISE** water service routing.

40. SHEET C308 – SANITARY PROFILES
    A. **REVISE** profiles.

41. SHEET C309 – SANITARY DETAILS
    A. **ADD** sheet.

42. SHEET C401 – OVERALL UTILITY PLAN
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** storm sewer routing.
    E. **REVISE** fire hydrant location.
    F. **ADD** building downspouts.

G. **ADD** sanitary easement.
H. **ADD** building FDC.
I. **ADD** fire hydrant.
J. **ADD** sidewalk along east side of Schwartz Road.

43. SHEET C402 – WATER SERVICE PLAN
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routin
    D. **REVISE** storm sewer routing.
    E. **REVISE** fire hydrant location.
    F. **ADD** building downspouts.
    G. **ADD** sanitary easement.
    H. **ADD** building FDC.
    I. **ADD** sidewalk along east side of Schwartz Road.

44. SHEET C403 – WATER SERVICE PLAN
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** storm sewer routing.
    E. **REVISE** fire hydrant location.
    F. **ADD** building downspouts.
    G. **ADD** sanitary easement.
    H. **ADD** building FDC.

45. SHEET C404 – WATER SERVICE PLAN
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** storm sewer routing.
    E. **REVISE** fire hydrant location.

F. **ADD** building downspouts.
G. **ADD** sanitary easement.
H. **ADD** building FDC.
I. **ADD** sidewalk along east side of Schwartz Road.

46. SHEET C405 – WATER SERVICE PLAN
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** storm sewer routing.
    E. **REVISE** fire hydrant location.
    F. **ADD** building downspouts.
    G. **ADD** sanitary easement.
    H. **ADD** building FDC.

47. SHEET C406 – WATER SERVICE PLAN
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** storm sewer routing.
    E. **REVISE** fire hydrant location.
    F. **ADD** building downspouts.
    G. **ADD** sanitary easement.
    H. **ADD** building FDC.

48. SHEET C407 – WATER SERVICE PLAN & PROFILE
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** profile.
    E. **REVISE** storm sewer routing.
    F. **REVISE** fire hydrant location.

G. **ADD** building downspouts.
H. **ADD** sanitary easement.
I. **ADD** building FDC.

49. SHEET C408 – WATER SERVICE PLAN & PROFILE
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** profile.
    E. **REVISE** storm sewer routing.
    F. **REVISE** fire hydrant location.
    G. **ADD** building downspouts.
    H. **ADD** sanitary easement.
    I. **ADD** building FDC.

50. SHEET C409 – WATER SERVICE PLAN & PROFILE
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** profile.
    E. **REVISE** storm sewer routing.
    F. **REVISE** fire hydrant location.
    G. **ADD** building downspouts.
    H. **ADD** sanitary easement.
    I. **ADD** building FDC.

51. SHEET C410 – WATER SERVICE PLAN & PROFILE
    A. **REVISE** sanitary sewer routing**.**
    B. **REVISE** storm sewer routing.
    C. **REVISE** water service routing
    D. **REVISE** profile.
    E. **REVISE** storm sewer routing.

F. **ADD** building downspouts.

G. **ADD** fire hydrant.

H. **ADD** sanitary easement.

I. **ADD** building FDC.

52. SHEET C411 – UTILITY NOTES & DETAILS

A. **ADD** flow test.

53. SHEET C412 – UTILITY DETAILS

A. **REVISE** Detail B and C.

PRATER ENGINEERING ASSOCIATES
6130 Wilcox Road
Dublin, Ohio 43016
Phone: (614) 766-4896 Fax: (614) 766-2354

Addendum 1 Narrative Refugee Road Apartments

Electrical

Sheet E100

1. Moved pole fixture with removal of drive.
2. Meter center and house panel moved to correct location as shown on the floor plans.
3. Adjusted utility transformer locations per Utility preliminary layout.
4. Added duct bank detail.

Sheet E101

1. Grill receptacle location adjusted, added additional grill receptacle.

Sheet E101-A

1. Apartment heat pump locations moved.
2. Exterior receptacles moved.
3. Breezeway lighting adjusted for new stairway.
4. Meter centers and electrical devices in water room moved.
5. Air handlers added to floorplan for reference.

Sheet E102-A

1. Breezeway lighting adjusted for new stairway.
2. Air handlers added to floorplan for reference.

Sheet E103-B

1. Apartment heat pump locations moved.
2. Exterior receptacles moved.
3. Breezeway lighting adjusted for new stairway.
4. Meter centers and electrical devices in water room moved.
5. Air handlers added to floorplan for reference.

Sheet E104-B

1. Breezeway lighting adjusted for new stairway.
2. Air handlers added to floorplan for reference.

Sheet E105-C

1. Apartment heat pump locations moved.
2. Breezeway lighting adjusted for new stairway.

3. Air handlers added to floorplan for reference.

Sheet E106-C

1. Breezeway lighting adjusted for new stairway.
2. Air handlers added to floorplan for reference.

Sheet E107-D

1. Lighting and receptacles adjusted per removal of leasing office.
2. Removed exit sign and switches in fitness room per removal of second door.
3. 3-way switch changed to normal toggle switch.
4. Homerun circuitry added to HVAC equipment.
5. Note added for island popup receptacles.
6. Exhaust fans added to restroom.
7. Lighting and receptacles adjusted per rearrangement of parcel room.
8. Ceiling fans in the fitness room on their own circuit.
9. S1 Fixtures changed to S7 fixtures in clubroom.
10. Access controls and noting added.
11. Added outside air fan connection and coded note.

Sheet E108

1. Changed Garage plan sheet from E109 to E108.
2. Adjusted locations of garage door operator and light switch.
3. Adjusted location of panel and receptacle.

Sheet E-200

1. Moved S1 fixtures out of shower of each unit plan.
2. Moved switches and receptacle near front door.
3. Moved data outlet to opposite wall for ANSI Type A unit.
4. Added outside air fan connection and coded note.
5. Range hood and noting added.
6. ADA and sensory noting added.
7. Note added for vanity mirror.

Sheet E-201

1. Moved S1 fixtures out of shower of each unit.
2. Moved vanity fixture and receptacle in ANSI Type A unit.
3. Moved switches and receptacle near front door of each unit.
4. Added outside air fan connection and coded note.
5. Range hood and noting added.
6. ADA and sensory noting added.
7. Note added for vanity mirror.

Sheet E-202

1. Moved S1 fixtures out of shower of each unit.
2. Moved switches and receptacle near front door.
3. Added outside air fan connection and coded note.
4. Range hood and noting added.
5. ADA and sensory noting added.
6. Adjusted corridor lighting.
7. Note added for vanity mirror.

Sheet E-302

1. Added panel schedule HP.
2. Panel schedules updated.
3. Updated air handler requirements chart.

Sheet E400

1. Fixture schedule updated.

Sheet E401

1. Added access control door detail.
2. Added ground bar detail.

Specifications:

1. 262726 Wiring devices – edited to use commercial devices rather than industrial devices.

HVAC

Sheet H101-A

1. Updated refrigerant piping layout.
2. Added unit tags to all dwelling units.
3. Updated outdoor unit tags for all units.
4. Updated indoor unit tags for the following units:
    a. 58 – 1A
    b. 59 – 1A
    c. 54 – 1A
    d. 55 – 1A

Sheet H103-B

1. Added unit tags to all dwelling units.
2. Updated outdoor unit tags for all units.
3. Updated indoor unit tags for the following units:
    a. 10 – 3A
    b. 12 – 3A

c. 76 – 3A
d. 77 – 3A
e. 78 – 3A
f. 79 – 3A

Sheet H104-B

1. Added unit tags to all dwelling units.

Sheet H105-c

1. Added unit tags to all dwelling units.
2. Updated outdoor unit tags for all units.
3. Updated indoor unit tags for the following units:
    a. 18 – 2A
    b. 19 – 2A-A
    c. 24 – 2A
    d. 25 – 2A

Sheet H106-C

1. Added unit tags to all dwelling units.

Sheet H107-D

1. Added "Pool Heater Vent Detail" to show where pool heater combustion vent terminals should go.
2. Updated pool equipment room layout and added notes regarding HVAC equipment in the pool room.
3. Moved Club Room outdoor unit to the other side of the building to shorten refrigerant line length.
4. Reconfigured duct layout for the Club Room and Leasing area systems.
5. Added louvers to the outside air intakes.
6. Added airflows and air device tags to returns.
7. Added outside air balancing note for all amenity systems.
8. Added coded notes 2-12.

Sheet H200

1. Updated transfer duct size for the 1 bedroom clubhouse unit.
2. Added transfer duct to laundry room for 1 bedroom ANSI type A.
3. Updated transfer size for the mechanical room for 1 bedroom ANSI type B.
4. Removed note B from duct location general note.
5. Revised note A in the duct location general note.

Sheet H201

1. Updated duct layout of 2 bed 2 bath unit type.
2. Moved dryer exhaust duct for 2 bed ANSI type A unit type.
3. Removed note B from duct location general note.
4. Revised note A in the duct location general note.

Sheet H202

1. Updated duct layout of 3 bed ANSI type A unit type.
2. Moved transfer duct and updated main duct size for the 3 bed unit type.
3. Updated duct layout of 3 bed clubhouse unit type.
4. Removed note B from duct location general note.
5. Revised note A in the duct location general note.

Sheet H300

1. Updated fan schedule to show outside air fans for different systems.
2. Added note 10 to the fan schedule.
3. Updated information for the split system schedule.
4. Added louver schedule.
5. Added dwelling unit outside air schedule.
6. Added preliminary dryer equivalent length calculations.

Sheet H301

1. Updated Apartment Split System Mechanical Closet detail to include outside air fans.

Specifications:

1. Added two missing specification sections:
    a. 23 54 13 – Split System AH Units
    b. 23 62 14 – Air Cooled Heat Pumps

Fire Protection

Sheet FP100

5. New sheet added.

Sheet FP101-A

2. Revised fire protection layout due to plan updates.
3. Revised Coded Notes.

Sheet FP102-A

6. Revised fire protection layout due to plan updates.

Sheet FP103-B

1. Revised fire protection layout due to plan updates.
2. Revised Coded Notes.

Sheet FP104-B

1. Revised fire protection layout due to plan updates.

Sheet FP105-C

1. Revised fire protection layout due to plan updates.
2. Revised Coded Notes.

Sheet FP106-D

1. Revised fire protection layout due to plan updates.
2. Revised Coded Notes.
3. Revised Piping Installation Note.

Sheet FP-201

8. Added details and piping diagrams.
9. Added enlarged Building D fire protection plan.

Sheet FP-301

1. Revised FDC-1 description.

Plumbing

Sheet P100

6. Revised plumbing site plan due to site updates.
7. Added coded notes.

Sheet P106-D

4. Revised plumbing layout due to plan updates.
5. Added storm drains and piping.

Sheet P107-D

1. New sheet added.

Sheet P-301

1. Revised Plumbing Equipment Schedule.
2. Revised Drain & Cleanout Schedule.

Sheet P-401

1. Revised EWH-2 Water Heater Piping Diagram.

Sheet P-402

1. Added gas piping diagram.
2. Added gas connection detail.

TABLE OF CONTENTS

00 00 01	Cover Sheet	
00 01 10	Table of Contents	***Updated Add 01 – 06/11/2025***

DIVISION 00 – PROCUREMENT and CONTRACTING REQUIREMENTS

DIVISION 01 - GENERAL REQUIREMENTS

01 12 16	Work Sequence	
01 21 13	Allowances	
01 23 00	Alternates	***Updated Add 01 – 06/11/2025***
01 25 00	Substitution Procedures	
01 25 01	Substitution Request Form	
01 29 00	Payment Procedures	
01 31 00	Project Management and Coordination	
01 31 19	Project Meetings	
01 32 16	Construction Schedules	
01 33 23	Shop Drawings, Product Data and Samples	
01 34 00	Submittal Review Cover	
01 40 00	Quality Requirements	
01 45 00	Quality Control	
01 45 33	Special Inspections and Structural Tests	
01 60 00	Product Requirements	
01 64 00	Owner-Furnished Products	
01 71 23	Field Engineering	
01 73 00	Execution Requirements	
01 73 29	Cutting and Patching	
01 74 00	Cleaning	
01 74 19	Construction Waste Management and Disposal	
01 77 00	Project Close-Out	
01 78 23	Operating and Maintenance	
01 78 39	Project Record Documents	

DIVISION 02 – EXISTING CONDITIONS (not used)

DIVISION 03 - CONCRETE

03 30 00	Cast-in-Place Concrete	
03 35 30	Concrete Cleaning and Sealing	

DIVISION 04 – MASONRY

04 00 00	Masonry	***Updated Add 01 – 06/11/2025***
04 72 00	Cast Stone	***Updated Add 01 – 06/11/2025***
04 73 10	Manufactured Stone Veneer	***Updated Add 01 – 06/11/2025***
~~04 73 13~~	~~Calcium Silicate Manufactured Stone~~	***Removed Add 01 – 06/11/2025***

DIVISION 05 - METALS

~~05 12 00 Structural Steel~~ ***Removed Add 01 – 06/11/2025***
05 50 00 Metal Fabrications

DIVISION 06 – WOOD, PLASTICS and COMPOSITES

06 10 00 Rough Carpentry
06 16 00 Sheathing
06 16 01 Sheathing - SAP Board
06 17 53 Shop-Fabricated Wood Trusses
06 20 00 Finish Carpentry
06 40 00 Architectural Woodwork ***Updated Add 01 – 06/11/2025***
06 61 00 Cast Polymer Fabrications
06 65 00 Simulated Wood Trim
06 73 00 Composite Decking

DIVISION 07 - THERMAL & MOISTURE PROTECTION

~~07 10 00.13 Waterproofing~~ ***Removed Add 01 – 06/11/2025***
07 13 26 Self-Adhered Waterproofing
07 21 00 Thermal Insulation
07 26 13 Above-Grade Vapor Retarders
~~07 26 16 Below-Grade Vapor Retarders~~ ***Removed Add 01 – 06/11/2025***
07 27 19 Plastic Sheet Air Barriers
07 27 26 Fluid-Applied Membrane Air Barriers
~~07 27 27 Self Adhered Sheet Air Barriers~~ ***Removed Add 01 – 06/11/2025***
07 31 13 Roofing Shingles ***Updated Add 01 – 06/11/2025***
07 46 33 Vinyl Siding ***Updated Add 01 – 06/11/2025***
07 46 46 Mineral-Fiber Cement Siding ***Updated Add 01 – 06/11/2025***
07 54 23 Thermoplastic Polyolefin Roofing
07 62 00 Sheet Metal Flashing and Trim
07 84 00 Firestopping
07 92 00 Joint Sealants

DIVISION 08 - DOORS & WINDOWS

08 11 13 Hollow Metal Doors and Frames
08 14 00 Wood Doors ***Updated Add 01 – 06/11/2025***
08 31 13 Access Doors
08 36 13 Sectional Doors ***Added Add 01 – 06/11/2025***
08 41 13 Aluminum-Framed Entrances and Storefronts
08 53 13 Vinyl Windows and Patio Doors ***Updated Add 01 – 06/11/2025***
08 71 10 Door Hardware ***Updated Add 01 – 06/11/2025***
08 81 00 Glass and Glazing
08 83 00 Mirrors
08 91 19 Fixed Louvers

DIVISION 09 - FINISHES

09 29 00	Gypsum Wallboard	***Updated Add 01 – 06/11/2025***
09 30 00	Tile	
09 65 00	Resilient Flooring	
09 65 66	Resilient Athletic Flooring	***Added Add 01 – 06/11/2025***
09 68 00	Carpeting	
09 91 00	Painting	

DIVISION 10 - SPECIALTIES

10 14 11	Restroom Signage	
10 14 19	Dimensional Letter Signage	
10 22 21	Demountable Glass Partitions	***Added Add 01 – 06/11/2025***
10 26 00	Wall Protection	
10 28 13	Toilet Accessories	***Updated Add 01 – 06/11/2025***
10 31 00	Fireplace Components	
10 44 00	Fire Extinguishers and Cabinets	***Updated Add 01 – 06/11/2025***
10 55 23	Mailboxes	***Updated Add 01 – 06/11/2025***

DIVISION 11 - EQUIPMENT

11 31 00	Residential Appliances	***Updated Add 01 – 06/11/2025***
11 52 23	Television Mounting Brackets	
11 66 00	Exercise Equipment	

DIVISION 12 - FURNISHINGS

12 21 14	Vertical Blinds	***Added Add 01 – 06/11/2025***
12 21 23	Horizontal Louver Blinds - Cordless	
12 32 00	Manufactured Wood Casework	***Added Add 01 – 06/11/2025***
~~12 33 55~~	~~Manufactured Plastic Laminate Clad Casework~~	***Removed Add 01 – 06/11/2025***
12 36 40	Stone Countertops	
12 36 61	Solid Surface Countertops	
12 48 13	Entrance Mats	
12 56 51	Furniture, Furnishings and Accessories	
12 93 00	Site Furnishings	

DIVISION 13 - SPECIAL CONSTRUCTION

13 15 00	Pool Construction

DIVISION 14 - CONVEYING EQUIPMENT – (not used)

DIVISION 21 – FIRE SUPPRESSION

21 01 00 General
21 05 10 Fire Stopping
21 05 18 Inserts Pipe Hangers Supports
21 05 20 Cutting Patching
21 05 30 Tests Adjustments
21 05 60 Manufacturers Drawings
21 13 13 Fire Protection Piping System Wet

DIVISION 22 – PLUMBING

22 00 00 Plumbing General
22 01 05 Plumbing General Provisions
22 05 10 Manufacturer's Drawings
22 05 13 Electrical Work
22 05 16 Sleeves and Collars
22 05 17 Firestopping
22 05 19 Piping Specialties
22 05 20 Painting
22 05 21 Cutting and Patching
22 05 22 Foundations and Supports
22 05 23 Valves
22 05 29 Inserts, Pipe Hangers, and Supports
22 05 30 Installation of Piping
22 05 53 Tagging and Coding
22 05 54 Equipment Identification
22 05 93 Tests and Adjustments
22 05 94 Protection and Cleaning
22 05 95 Flushing and Sterilizing
22 05 97 Remodeling
22 05 98 Plumbing Demolition
22 07 00 Plumbing Insulation
22 11 16 Domestic Water Piping Systems
22 13 16 Building Soil Waste Vent Piping System
22 33 36 Electric Water Heaters
22 34 36 Gas Domestic Water Heaters
22 34 37 Flues
22 42 00 Plumbing Fixtures
22 63 13 Gas House Lines
23 01 05 HVAC General

DIVISION 23 – HVAC

23 01 10 Manufacturer's Drawings
23 05 13 Electrical Work
23 05 16 Sleeves and Collars
23 05 17 Firestopping

23 05 20	Painting	
23 05 21	Cutting and Patching	
23 05 22	Foundations and Supports	
23 05 29	Inserts, Pipe Hangers & Supports	
23 05 30	Installation of Piping	
23 05 54	Equipment Identification	
23 05 93	Tests & Adjustments	
23 05 94	Protection & Cleaning	
23 05 96	Substitutions	
23 07 00	HVAC Insulation	
23 21 13.33	Condensation Drain & Drain Piping Systems	
23 23 00	Refrigerant Piping System	
23 31 13.13	Low Pressure Ductwork	
23 33 13	Dampers	
23 34 17	Inline Cabinet Exhaust Fans	
23 34 20	Bathroom Exhaust Fans	
23 37 00	Registers, Grilles & Diffusers	
23 37 23	Louvers	
23 54 13	Split System AH Units	***Added Add 01 – 06/11/2025***
23 62 14	Air Cooled Heat Pumps	***Added Add 01 – 06/11/2025***
23 82 39.13	Cabinet Unit Heaters	
23 82 46	Electric Duct Heater	
23 90 10	HVAC Alternates	
23 99 00	HVAC Commissioning	

DIVISION 26 – ELECTRICAL

26 00 00	General Provisions	
26 00 15	Work Included	
26 00 20	Codes and Fees	
26 00 25	Tests and Inspections	
26 01 20	Operation and Maintenance Manuals	
26 05 19	Wire and Cable	
26 05 23	Motor and Equipment Wiring	
26 05 26	Grounding	
26 05 33	Conduits	
26 05 34	Boxes and Plates	
26 05 43	Underground Electrical Service	
26 05 53	Identification	
26 09 23	Lighting Control Equipment	
26 24 00	Surge Protective Devices	
26 24 14	Panelboards	
26 24 16	Load Centers	
26 27 13	Meter Centers	
26 27 26	Wiring Devices	***Updated Add 01 – 06/11/2025***
26 28 13	Fuses	
26 28 16	Disconnects	
26 29 13	Motor Starters and Controls	

26 51 13 Lighting Fixtures

DIVISION 27 – COMMUNICATION

27 05 28 Pathways for Communications Systems

DIVISION 28 – SAFETY and SECURITY

28 26 00 Emergency Responder Radio System
28 31 00 Fire Alarm System

DIVISION 31 – EARTHWORK

31 00 00 Earthwork
31 10 00 Site Clearing
31 23 33 Piped Utilities-Basic Methods
31 25 00 Erosion and Sediment Control

DIVISION 32 – EXTERIOR IMPROVEMENTS

32 12 00 Flexible Pavement
32 13 00 Rigid Pavement
32 92 00 Turf & Grasses
32 93 00 Plants

DIVISION 33 – UTILITIES

33 11 00 Water Distribution
33 30 00 Sanitary Sewerage
33 40 00 Storm Drainage

APPENDICES

Appendix A Fitness Equipment List (for reference)
Appendix B Geotechnical Engineering Report (for reference)
Appendix C FF&E Schedule and Specifications ***Added Add 01 – 06/11/2025***

SECTION 01 23 00
ALTERNATES

PART 1 GENERAL

1.01 SUMMARY

A. Section includes administrative and procedural requirements for alternates.

1.02 GENERAL REQUIREMENTS

A. Definitions and Explanations: "Alternates" are defined as alternate products, materials, equipment, systems, methods, units of work or major elements of the construction, which may, at Owner's option and under terms established by Instructions to Bidders and in the Contract or Agreement, be selected for the work in lieu of corresponding requirements of Contract Documents. Selection may occur prior to Contract date, or may, by the Agreement, be deferred for possible selection at a subsequent date. Alternates may or may not change scope and general character of the work substantially. Requirements of this section may be related to, but must not be confused with, requirements of Contract Documents related to "allowances", "unit prices", change orders", "substitutions" and similar provisions.

B. Refer to the Contract, and subsequent modifications thereof, for determination of which several scheduled "Alternates" herein have been accepted, and, therefore, are in full force and effect as though included originally in the contract documents for the base bid.

1. The Owner reserves the right to accept or reject any Alternate at the time of awarding the Contract. If, during the progress of the Work, it should become desirable to reinstate any Alternate not included in the Contract, the Owner reserves the right to reinstate the Alternate at the price bid by the Contractor provided that such actions taken in sufficient time as not to delay the progress of the work.

C. Notification: Immediately following the award of the Contract, prepare and distribute to each entity to be involved in performance of the work, a notification of the status of each alternate scheduled herein and including those subsequently added by notification during bidding. Indicate which alternates have been: 1) accepted, 2) rejected, and, 3) deferred for consideration at a later date as indicated. Include full description of negotiated modifications to alternates, if any.

D. General: The descriptions herein for each alternate are recognized to be incomplete and abbreviated, but imply that each change must be complete for the scope of work affected. Refer to all other applicable specification sections and to applicable drawings, for specific requirements of the work, regardless of whether references are so noted in the description of each alternate.

E. It is recognized that descriptions of alternates are primarily scope definitions, and do not necessarily detail full range of materials and processes needed to complete the work as required.

1.03 SCHEDULE OF ALTERNATES

A. Contract Alternates

1. Alternate No. 1: Air Barrier Option
    a. Provide fluid applied barrier instead of flexible plastic sheet air barrier. Reference sections:
        1) 07 27 19 - Plastic Sheet Air Barriers
        2) 07 27 26 - Fluid-Applied Membrane Air Barriers.
2. Alternate No. 2: Exterior Material
    a. Provide alternate pricing for using fiber cement siding in select areas (bays with balconies) in lieu of stone veneer and vinyl siding. Delete thin stone headers, sills, and vinyl shutters.
        1) Refer to new sheet A310E and notes on all elevation sheets.

END OF SECTION 01 23 00

This page intentionally left blank

SECTION 04 00 00
MASONRY

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide the following:
   1. Face brick.
   2. Concrete masonry units.
      a. Standard
      b. Fire-rated
      c. Split face
   3. Scored
   4. Glazed face concrete masonry units.
   5. Acoustic concrete masonry units; standard and glazed face.
   6. Ground face concrete masonry units; standard and acoustic.
   7. Glazed structural facing tile.
   8. Stone for lintels, sills and stools.
   9. Masonry lintels and setting of steel angles furnished under Section 05 50 00.
   10. Setting bearing plates supported and embedded with masonry furnished under Section 05 50 00.
   11. Provide masonry fill concrete and reinforcing steel where indicated on drawings. See Section 03 30 00.
   12. Wall reinforcing and accessories.
   13. Built-in collars, sleeves, inserts, anchors, ties, sockets, bolts, blocking, miscellaneous metal work, etc., in contact with, supported on or enclosed by masonry. When these items are furnished by others, they shall include information for setting.
   14. Through-wall flashing.
   15. Includes grouting solid all hollow metal door frames in masonry.
   16. Mortar and grout.
   17. Concrete block vents.

1.02 RELATED SECTIONS

~~Sustainable Design Requirements: Section 01 81 13.~~

~~VOC Limits: Section 01 81 16.~~

~~Architectural Precast Concrete: Section 03 45 11.~~

~~Limestone: Section 04 43 10.~~

~~Granite: Section 04 43 11.~~

A. Cast Stone: Section 04 72 00.

1.03 DEFINITIONS

A. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.04 SUBMITTALS

A. Product Data: For each different masonry unit, accessory and other manufactured products specified.

B. Shop Drawings: Show fabrication and installation details for the following:
   1. Reinforcing Steel: Detail bending and placement of unit masonry reinforcing bars. Comply with ACI 315, “Details and Detailing of Concrete Reinforcement”. Show elevations of reinforced walls.
   2. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.

C. Samples: Provide samples of items specified herein to be used in the work.

D. Submit certification that fire resistant concrete units conform to the requirements specified herein for Fire Resistant Concrete Block.

E. Brick Cleaner
   1. Applicator Qualifications: Submit qualifications of applicator.
      a. Certification stating applicator is experienced in the application of the specified products.
      b. List of recently completed masonry cleaning projects, including project name and location, names of owner and Architect, description of cleaning products used and substrates, applicable local environmental regulations, and application procedures.
   2. Environmental Regulations: Submit description for testing, handling, treatment, containment, collection, transport, disposal, and discharge of hazardous wastes and cleaning effluents. Describe any hazardous materials to be cleaned from substrates. Submit applicable local environmental regulations.
   3. Protection: Submit description for protecting surrounding areas, landscaping, building occupants, pedestrians, vehicles, and nonmasonry surfaces during the work from contact with masonry cleaners, stain removers, residues, rinse water, fumes, wastes, and cleaning effluents.
   4. Surface Preparation: Submit description for surface preparation of substrates to be completed before application of masonry cleaners and stain removers.
   5. Application: Submit description for application procedures of masonry cleaners.

F. Material Test Reports: From a qualified testing agency indicating and interpreting test results of the following for compliance with requirements indicated.

G. Each type of masonry unit required.
      a. Include size-variation data for brick, verifying that actual range of sizes falls within specified tolerances.
      b. Include test results, measurements, and calculations establishing net-area compressive strength of masonry units.
   2. Mortar complying with property requirements of ASTM C270.
   3. Grout mixes complying with compressive strength requirements of ASTM C476. Include description of type and proportions of grout ingredients.

H. Material Certificates: Signed by manufacturers certifying that each of the following items complies with requirements:
   1. Each type of masonry unit required.
      a. Include test data, measurements, and calculations establishing net-area compressive strength of masonry units.
   2. Each combination of masonry unit type and mortar type. Include statement of net-area compressive strength of masonry units, mortar type, and net-area compressive strength of masonry determined according to Tables 1 and 2 in ACI 530.1/ASCE 6/TMS 602.
   3. Each material and grade indicated for reinforcing bars.
   4. Each type and size of joint reinforcement.
   5. Each type and size of anchor, tie, and metal accessory.

I. Cold-Weather Procedures: Detailed description of methods, materials and equipment to be used to comply with cold-weather requirements.

~~Sustainable Design Documentation Submittals: Comply with Section 01 81 13.~~

~~VOC Limits: Include documentation verifying product Low Emitting Material Building Product Disclosures and Optimization.~~

1.05 QUALITY ASSURANCE

A. Supervisor: A supervisory journeyman mason shall be appointed for the project and shall be present at all times masonry work is being performed and:
   1. have a minimum of 5 years experience on masonry projects of this type and size.
   2. be thoroughly familiar with the design requirements, types of materials being installed, referenced standards and other requirements.

B. Use only skilled journeyman masons for cutting and placing of masonry; no allowance shall be made for lack of skill on the part of the workmen.

C. Consult other trades and make provisions that shall permit the installation of their work in a manner to avoid cutting and patching. Build-in work under other sections, as necessary, and as the work progresses.

D. Unit Masonry Standard: Comply with ACI 530.1/ASCE 6/TMS 602, 2013 Edition “Specifications for Masonry Structures”. Maintain one copy of the standard in project field office at all times during construction. Contractor’s supervisory personnel shall be thoroughly familiar with the material as it applies to this Project.

E. Concrete Unit Masonry Construction: Comply with the National Concrete Masonry Association (NCMA) “TEK Bulletins”, and other requirements specified.
   1. NCMA TEK Bulletin 3-02A “Grouting for Concrete Masonry Walls”.
   2. NCMA TEK Bulletin 8-02A “Removal of Stains from Concrete Masonry Walls”.
   3. NCMA TEK Bulletin 10-01A “Crack Control in Concrete Masonry Walls”.
   4. NCMA TEK Bulletin 10-02C “Control Joints for Concrete Masonry Walls”.
   5. NCMA TEK Bulletin 14-2 “Reinforced Concrete Masonry”.
   6. NCMA TEK Bulletin 19-04A “Flashing Concrete Masonry”.
   7. NCMA TEK Bulletin 19-05A “Use of Flashing in Concrete Masonry Walls”.

F. Brick Industry Association (BIA)
   1. BIA Technical Notes No. 8 and 8B: Mortar for Brickwork.
   2. BIA Technical Notes No. 20: Cleaning Brick Masonry.
   3. BIA Technical Notes No. 28D: Brick Veneer.
   4. BIA Technical Notes No. 18A: Expansion of Brickwork.

G. Sample Panels
   1. Construct where approved by Architect.
   2. Panel shall be at least 6 feet long by 6 feet high and shall show full color range, joint detail, reinforcement, air barrier, insulations, through-wall flashing and drips, cavity drainage material, weeps and all other details of construction that will be used in the completed work. Include at least one 90o corner.
      a. Include brick masonry, concrete masonry, cast stone; see Section 04 72 00, and architectural precast concrete; see Section 03 45 12
      b. Clean sample panel using the same methods and materials that will be utilized for cleaning the building masonry.
   3. Construct additional panels as required by Architect if original panel construction is not acceptable.
   4. Do not start masonry construction until the sample panel is approved by the Architect.
   5. Retain acceptable sample as reference standard for the project.
   6. Demolish and remove panel from site after acceptance of work.

1.06 DELIVERY, STORAGE AND HANDLING

A. Store cement and lime materials and masonry units off the ground, under cover and protected from weather damage. If units become wet, do not install until they are dry. Do not use cementitious materials that have become damp.

B. Stockpile and store aggregates to prevent contamination from foreign materials, in locations where grading and other required characteristics can be maintained.

C. Use care in handling units to avoid chipping and breakage.

D. Locate storage areas where they will not be disturbed or damaged by construction operations.

E. Protect finished floor areas from damage.

1.07 COLD WEATHER CONSTRUCTION

A. Comply with recommended practices for cold weather construction of the International Masonry Industry All-Weather Council and requirements contained in ACI 530.1/ASCE 6/TMS 602.

B. Do not build on frozen or snow covered work. Remove and replace masonry work damaged by frost or freezing.

C. Requirements During Construction: Provide the following minimum requirements for the air temperatures listed:
   1. Above 40o F: Normal masonry procedures.
   2. 40o F to 32o F: Heat mixing water to produce mortar temperatures between 40o F and 120o F. Produce consecutive batches of mortar with the same temperatures falling within this range. Do not heat mortar to greater than 120o F.
   3. Below 32o F to 25o F: Heat sufficient mortar ingredients to produce mortar temperatures between 40o F and 120o F. Produce consecutive batches of mortar with the same temperatures falling within this range. Maintain mortar temperatures after mixing above 40o F. Do not heat mortar to greater than 120o F.
   4. Below 25o F to 20o F: Heat sufficient mortar ingredients to produce mortar temperatures between 40o F and 120o F. Produce consecutive batches of mortar with the same temperatures falling within this range. Maintain mortar temperatures after mixing above 40o F. Do not heat mortar to greater than 120o F. Maintain masonry above freezing using auxiliary heat. Provide enclosure when wind is in excess of 15 mph.
   5. Below 20o F: Heat sufficient mortar ingredients to produce mortar temperatures between 40o F and 120o F. Produce consecutive batches of mortar with the same temperatures falling within this range. Maintain mortar temperatures after mixing above 40o F. Do not heat mortar to greater than 120o F. Maintain masonry above freezing using enclosure and auxiliary heat.

D. Protection Requirements for Completed Masonry (and masonry not being worked on): Provide the following minimum requirements for the mean daily air temperatures listed:
   1. Above 40o F: Normal masonry procedures.
   2. 40o F to 32o F: Protect from rain or snow for 24 hours with weather-resistive membrane.
   3. Below 32o F to 20o F: Completely cover with weather-resistive membrane and maintain above freezing for 24 hours.
   4. Below 20o F: Provide weather-resistant enclosure and auxiliary heat to maintain above freezing for 24 hours.

E. Requirements During Grouting Operations (Vertically Reinforced Walls): Provide the following minimum requirements for the air temperatures listed:
   1. Above 32o F: Normal masonry procedures. Cover at end of work day with weather-resistive membrane.
   2. 32o F to 20o F: Heat grout materials to 90o F so grout has in-place temperature of 70o F at end of work day. Cover at end of work day with weather-resistive membrane and 1/2" thick insulating blanket.
   3. Below 20o F: Heat grout materials to 90o F so grout has in-place temperature of 70o F at end of work day. Cover at end of work day with weather-resistive membrane and 1" thick insulating blanket or maintain heated enclosure to 40o F for a period of 48 hours.
   4. Grout Containing Type III Cement: Maintain 40o F temperature for 24 hours.

1.08 HOT WEATHER CONSTRUCTION

A. Protect masonry construction from direct exposure to wind and sun when erected in an ambient air temperature of 90o F., or greater in shade with relative humidity less than 50%. Provide artificial shade and wind breaks and use cooled materials as required. Provide artificial shade, wind breaks, use cooled materials and other procedures outlined in BIA Tech Notes #1.

1.09 PROJECT CONDITIONS

A. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least 3 days after building masonry walls or columns.
   1. Brace unsupported and newly laid masonry walls. Maintain bracing in place until building structure provides permanent bracing.

B. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar and soil that become in contact with such masonry.
   1. Protect base of walls from rain-splashed mud and from mortar splatter by coverings spread on ground and over wall surface.
   2. Protect sills, ledges and projections from mortar droppings.
   3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
   4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt on completed masonry.

PART 2 PRODUCTS

2.01 CLAY MASONRY UNITS

A. General: Provide materials that comply with Project Sustainable Design Requirements and Low Emitting Material goals.

~~Existing Brick: Close openings where indicated with face brick salvaged from removal operations. See Section 02 41 16 - Structure Demolition.~~

B. Face Brick
   1. Reference: Select exterior building brick conforming to ASTM C216, Grade SW.
   2. Size and Color: Standard size and of a color range and texture selected by the Architect.
   3. Cost Estimate
      a. In preparing the bid, estimate the cost of this brick at $480.00 per thousand, unloaded and stacked at the building site.
      b. If brick selected costs more or less than the amount specified, an amount equal to the difference in cost shall be added to, or deducted from, the contract price.
      c. The quantity of face brick required shall be the amount installed in the work as determined by the Architect.
   4. Size: Standard.
   5. Manufacturer/Color
      a. Field Brick: ~~BELDEN BRICK Berwick Blend~~M/S Cordoba by GENERL SHALE.
      b. Accent Brick: ~~BELDEN BRICK Berwick Reds Range.~~M/S Cordoba by GENERL SHALE.
      c. Other Manufacturers: Brick by other manufacturers may be used providing the above requirements are met or exceeded. Color and texture must be equal as approved by the Architect prior to bid.
   6. Special Shapes: Provide solids, shelf angle bricks and other special shapes as indicated or required so as no brick cores are exposed to view. Color and texture to match face brick or accent brick as applicable.
      a. Cost Estimate
         1) In preparing the bid, estimate the cost of special shapes of brick at $6,000.00per thousand, unloaded and stacked at the building site.
         2) If special shape bricks selected costs more or less than the amount specified, an amount equal to the difference in cost shall be added to, or deducted from, the contract price.

C. Structural Glazed Facing Tile Units
   1. Size: Manufacturer's standard unit 6T Series with nominal face dimensions of 12” long by 5-1/3” high, 4W Series with nominal face dimensions of 8” long by 8” high, and 8W Series with nominal face dimensions of 16” long by 8” high.

2. Special Shapes
    a. Provide special corner, jamb, sash, control joints and other special conditions where shown and required.
    b. Provide bullnose edge tile for external corners, except where otherwise indicated.
    c. Provide coved base course.
3. General
    a. Comply with the following classifications, weights, grades, curing and other requirements as specified.
        1) ASTM C67.
        2) ASTM C126, Grade SS, Type I.
    b. For walls glazed both sides, provide two single glazed units.
    c. Provide manufacturer's standard factory finished ceramic glazed surface that is an integral part of clay unit.
    d. Color: Selected by Architect from manufacturer's full range of colors.
    e. Manufacturer: ELGIN-BUTLER BRICK COMPANY.

2.02 CONCRETE MASONRY UNITS

A. General
1. Curing: Cure for at least 7 days and units must be at least 28 days old when used in the work.
2. Corners (Interior Walls): Provide bullnose edges at all outside corners unless otherwise indicated or directed.
3. Colors
    a. Concealed and Interior Exposure (not indicated to be colored): Natural color.
    b. Exterior Exposed and Interior Exposed where indicated
        1) Color 1: Light brown range as selected by Architect.
        2) Color 2: Warmtone (tan) range as selected by Architect.
4. Colors (from second manufacturer):
    a. All Scored Units, All Split Face Units and Smooth Face Units (where indicated): Colors as follows:
        1) Scored Smooth Face, except as specified below: WELLNITZ Carey Warmtone or similar color by OBERFIELD'S or other block manufacturer as approved by Architect prior to bid.
        2) Scored Split Face Accent Bands and Smooth Face Base: WELLNITZ Charcoal or similar color by OBERFIELD'S or other block manufacturer as approved by Architect prior to bid.
        3) Other Areas Not Identified: WELLNITZ Carey Warmtone or similar color by OBERFIELD'S or other block manufacturer as approved by Architect prior to bid.
    b. All Other Units: Natural.
5. Integral Water Repellents: Use in units exposed to weather. Amount as recommended by water repellent manufacturer as approved by concrete block manufacturer.
    a. Type: Liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength. Units made with integral water repellent, when tested according to ASTM E 514 as a wall assembly made with mortar containing integral water-repellent manufacturer's mortar additive, with test period extended to 24 hours, shall show no visible water or leaks on the back of test specimen.
    b. Products/Manufacturers: Subject to compliance with requirements, provide W. R. GRACE Dry-Block; MASTER BUILDERS' INC. Rheomix-Rheopel; ACME-HARDESTY CO. Acme-Shield; KRETE INDUSTRIES KreteControl 202 Internal Water Repellent; EUCLID CHEMICAL Hydrapel System.

B. Hollow Load Bearing, Solid Load Bearing (75%) and Fire Resistant Concrete Masonry Units
1. Type: Hollow, load bearing, standard modular size and shapes, thoroughly cured and dried.
2. References: ASTM C90.

3. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 1900 psi.
4. Weight Classification: Normal weight, unless otherwise indicated.
5. Linear Shrinkage: Not to exceed 0.065 percent, ASTM C426.
6. Aggregate: ASTM C33 normal weight aggregates. Cinder aggregates not permitted.
7. Fire Resistant
    a. Rating: Design for fire ratings indicated on drawings.
    b. Manufacturer
        1) Listed in the Building Materials List published by the Underwriters' Laboratories, Inc.
        2) In lieu of above, provide a report from a nationally recognized testing agency stating that the units are equivalent in fire rating to those furnished by the producers as listed above.
    c. Location: Where indicated.

C. Split Face Units
1. Type: Standard weight, hollow core, load bearing, modular units conforming to ASTM C90. Nominal [4 x 16] [8 x 16] face size. Thickness as indicated.
2. Provide all special shapes, including split faces, ends, and top surfaces as required to complete the work.

D. Glazed Masonry Units
1. Reference: ASTM C744
2. Type: Spectra Glaze II, satin finish, as manufactured by THE SPECTRA GROUP; Astra-Glaze by TRENWYTH INDUSTRIES.
3. Special Shapes
    a. Provide special corner, jamb, and other special conditions where shown and required.
    b. Provide coved base course where indicated.
    c. Scored Pattern: As indicated.
4. For walls glazed both sides, provide two single glazed units.
5. Colors: Selected by Architect from manufacturer's full range of colors. Three colors will be selected. Layout pattern as indicated.
6. Glazed Acoustic Concrete Masonry Units: See "Acoustic Concrete Masonry" herein.

E. Ground Face Concrete Units
1. Type: Ground face, hollow, load bearing, thoroughly cured and dried.
2. References of Block for Grinding: ASTM C90.
3. Manufacturer: [Trendstone Plus] [Verastone Plus], filled units by TRENWYTH INDUSTRIES; NEW HOLLAND CONCRETE, READING ROCK or PREMIER.
4. Surface: Fill ground surfaces with cementitious grout with minimum cured strength and durability equal to basic block unit. After polishing filled surfaces, field apply heat treated acrylic coating.
5. Colors: As selected by Architect. Two colors will be selected. Layout as indicated.
6. Special Shapes
    a. Provide special corner, jamb, and other special conditions where shown and required.
    b. Provide coved base course where indicated.

F. Acoustic Concrete Units
1. Type: Hollow, load bearing, thoroughly cured and dried, and cast with normal weight aggregates. Provide with acoustic slots and insulation filler inserts.
    a. Filler inserts at glazed block to be moisture resistant insulation.
2. References: ASTM C90.
3. Color: Natural, except for glazed units.
4. Sizes: As indicated on drawings.

5. Manufacturer
    a. Basis of Design: Drawings and specifications are based on Soundblox units by THE PROUDFOOT COMPANY.
    b. Acceptable Manufacturers: Acousta-Wal units manufactured by TRENWYTH INDUSTRIES or equal are acceptable providing they meet or exceed the requirements specified.
6. Sound Absorption Coefficients: ASTM C423. (125/500/2000 Hertz)
    a. Type RSC - 12": 0.57 at 125 Hertz; 1.09 at 500 Hertz; 0.54 at 2000 Hertz.
    b. Type R - 4": 0.20 at 125 Hertz; 0.63 at 500 Hertz; 0.52 at 2000 Hertz.
7. Noise Reduction Coefficient: ASTM C423.
    a. Type RSC - 12": 0.85.
    b. Type R - 4": 0.65.

G. Precast Concrete Lintels
1. Mix: Minimum of 1 part cement to 3 parts aggregate.
2. Strength: Minimum compressive strength of 5000 psi at 28 days.
3. Finish: Thoroughly cured with exposed faces having a finish that approximates that of adjacent surfaces.
4. Provide for at least 8 in. bearing at each end unless otherwise indicated.
5. Color: Match adjacent concrete masonry.

H. Concrete Brick
1. Type: Solid, standard sizes and shapes, thoroughly cured and dried and cast with normal weight aggregates.
2. References: ASTM C55, Grade N.
3. Use as necessary to close openings in areas where concrete masonry is not exposed to view (i.e. close-off cavity of cavity walls at openings, work concealed behind drywall, etc.).

2.03 MISCELLANEOUS UNITS

A. Refractory Brick: Fireclay medium duty type in accordance with ASTM C27, Fireclay and High-Alumina Refractory Brick.
1. Provide in fireplace fire-box.

B. Flue Liner: Provide size and shape as indicated on drawings in conformance with ASTM C315, Clay Flue Linings.

2.04 MORTAR

A. Materials
1. Portland Cement: ASTM C150, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated or selected.
2. Masonry Cement: ASTM C91, provide non-staining type for stonework.
3. Hydrated Lime: ASTM C207, Type S.
4. Aggregate: ASTM C144, clean masonry sand, not over 10% to pass No. 100 sieve for general use.
5. Water: Clean, fresh and free of deleterious amounts of acids, alkalis and foreign organic matter.
6. Water Repellent Admixture: W. R. GRACE Dry-Block, RHEOMIX - Rheopel Mortar Admixture; MASTER BUILDERS, INC., KRETE INDUSTRIES KreteGuard 390. Manufacturer must submit certification that water repellent admixture meets or exceeds requirements specified herein.
    a. Conformance: ASTM E514.
    b. Type: Integral polymeric water-repellents (IPWR).

7. Color Additive: Inorganic pigments as required to produce colored mortar as selected by Architect. SGS Colors by SOLOMON GRIND CHEM SERVICE; DAVIS COLORS or equal.
    a. Resistant to alkali, light and weather
    b. Unaffected by cement and free of water soluble salts.
8. Cold Weather Additive: Non-chloride, non-corrosive, accelerating admixture complying with ASTM C494, Type C or ASTM C1384 and recommended by the manufacturer for use in masonry mortar of composition indicated.

B. Proprietary Mortar Cement: Conform to ASTM C91, containing hydrated lime.
1. Certification: Submit certified laboratory data substantiating conformance with structural requirements for mortars as specified; and that no adverse chemical reaction will occur with the specified masonry accessories and reinforcing. Certification must be received and approved by Architect prior to mortar use.
2. Suitable products are acceptable from the following manufacturers:
    a. MIAMI
    b. LEHIGH HANSON
    c. ESSROC MATERIALS, INC. (Brixment)
    d. QUIKRETE
    e. CEMEX INC.

C. Mixes - Unit Masonry
1. Provide water repellent admixture in all mortar used for exterior CMU masonry work. Add to mix in accordance with manufacturer's recommendations.
2. Type M Mortar
    a. Use: Provide for CMU work below grade or in contact with earth.
    b. Proportions: ASTM C270 proportions by volume. Minimum average compressive strength at 28 days of 2,500 psi.
    c. Color: Natural color.
3. Type S Mortar
    a. Use: Provide for all CMU work.
    b. Proportions: ASTM C270 proportions by volume. Minimum average compressive strength at 28 days of 1,800 psi.
    c. Colors
        1) Concealed work and natural colored concrete masonry units: Natural color.
        2) Colored concrete masonry units: As selected by Architect.
4. Type N Mortar
    a. Use: Provide for brick veneer and cast stone.
    b. Proportions: ASTM C270 proportions by volume. Minimum average compressive strength at 28 days of 750 psi.
    c. Colors: As selected by Architect.

D. Mix - Cut Stone: One part non-staining masonry cement, one part hydrated lime, and six parts damp, loose sand.

E. Cast Stone Pointing Mortar: One part non-staining masonry cement, one part hydrated lime, and four parts damp, loose sand. Add coloring pigment as required to match mortar color selected by Architect.

F. Grout - For Pointing Glazed Block Joints: Dry-set grout composed of Portland Cement and additives formulated for ceramic tile and glazed block. ANSI 118.7 with grout sealer per Section 09 30 00.
1. Colors: Selected by Architect from manufacturer's colors.
2. Manufacturer:
    a. MAPEI.
    b. CUSTOM BUILDING PRODUCTS.

c. LATICRETE

2.05 GROUT

A. Masonry Grout - Mix
1. Fine Grout for Reinforced Masonry: Mix with mechanical mixer with sufficient water to the desired consistency in accordance with ASTM C476 Proportion Specifications.
a. Portland Cement: 1 part
b. Hydrated Lime: 0 to 1/10 part
c. Fine Aggregate: 2-1/4 to 3 times the sum of the volumes of the cementitious materials
2. Coarse Grout for Reinforced Masonry: Mix with mechanical mixer with sufficient water to the desired consistency in accordance with ASTM C476 Proportion Specifications.
a. Portland Cement: 1 part
b. Hydrated Lime: 0 to 1/10 part
c. Fine Aggregate: 2-1/4 to 3 times the sum of the volumes of the cementitious materials.
d. Coarse Aggregate: 1 to 2 times the sum of the volumes of the cementitious materials.
3. Hand Mixing: Not acceptable.

2.06 REINFORCING

A. Manufacturers: DUR-O-WALL; HECKMANN BUILDING PRODUCTS; HOHMANN & BARNARD; MASONRY REINFORCING CORPORATION OF AMERICA (WIREBOND). Where products are specified referencing a particular manufacturer, equal products from the manufacturers listed are acceptable providing the product meets the requirements indicated.
1. Where a manufacturer is listed below for a specific product, it is to establish a level of quality. Similar products of equal quality from the above listed manufacturers are acceptable.

B. Horizontal Joint Reinforcement
1. General

2.07 TYPE: LADDER TYPE, STANDARD WEIGHT, GALVANIZED.FROM TRUSS 8-17-2010

a. Width: Approximately 2 in. less than nominal wall thickness.
b. Spacing: Continuous along horizontal joint, spaced 16 inches on center vertically, unless otherwise indicated.
2. Longitudinal Wire
a. Single Wythe Walls: 2 wires.
b. Multi-wythe Walls:
1) Each wythe less than 6 inches wide: 1 wire.
2) Each wythe 6 inches and wider: 2 wires.

B. Metal "Z" Ties: 3/16" galvanized steel "Z" shaped wire ties, 2" narrower than wall width. For use in block wythes at control joints.

C. Split face CMU veneer with CMU back-up (i.e. Book Depository): Use ladder type reinforcing; do not use systems under paragraph D.

D. Adjustable Veneer Anchor
1. Steel Stud or Structural Steel Back-Up: Two piece, adjustable loop type anchor and tie. Anchors and ties shall be carbon steel, devices, hot dip galvanized after fabrication, coating conforming to ASTM A153, Class B2, 1.5 ounce coating per square foot. Manufacturer to provide oversized hole as required to accommodate diameter of screws without abrasion of zinc coating.
a. Anchor: Provide anchors that allow vertical adjustment but resist a 100-lbf load in both tension and compression perpendicular to plane of wall without deforming or developing play in excess of 1/16 inch.

1) Steel Stud Back-Up: Screw-on galvanized steel strap anchor, 12 gage by 3/4" wide by 9" long with 3/8" offset and 4" adjustment. Provide strap with 3/8" hole at each end for fasteners. Provide self-tapping carbon steel screws with minimum 0.0005" of zinc coating. HECKMANN 315-C.
2) Steel Stud/ Sheathing Back-Up: Screw-on galvanized steel strap anchor with stand-off legs for insulation sheathing board in depths required. X-SEAL by HOHMANN & BARNARD or similar type design manufactured by HECKMANN, AA WIRE PRODUCTS, DUR-O-WAL, INC., NATIONAL WIRE PRODUCTS INDUSTRIES. Seal insulation face with reinforced polyolefin base, laminated to a polypropylene layer tape. Alternate design attachment must be specifically designed for insulated sheathing in depths required.
3) Structural Steel Back-Up: Weld-on steel strap anchors. Field prime after welding. 12 gage by 1/2" wide by 8' long with six 3/8" offsets to provide 7-3/4" vertical adjustment. HECKMANN 317-B.
4) Fasteners: Hot-dipped galvanized steel bolt, nut and washer.
5) Depth: Provide engineered analysis of anchors over 4 ½".

b. Ties: Triangular tie, fabricated from 3/16" diameter galvanized cold drawn steel wire. Provide ties long enough to engage the anchor and be embedded not less than 2" into the bed joint of the masonry veneer. HECKMANN 316 Series.

2. Wood Stud Back-Up: Screw on anchor plate fabricated 14 gage hot dipped galvanized steel. 1 ¼" x 6" long. 315D from by HECKMANN or similar products.
   a. Ties: Triangular tie, fabricated from 3/16" diameter galvanized cold drawn steel wire. Provide ties long enough to engage the anchor and be embedded not less than 2" into the bed joint of the masonry veneer. HECKMANN 316 Series.
3. Concrete Masonry Back-Up (Tie and Anchor): Ladder type reinforcing with double eye ties welded at each cross wire 15" o.c. to extend into cavity of the two wythe wall. A two pronged hook tie shall be inserted into the eye holes creating a positive connection to restrain compression and tension. Lox All Adjustable Eye Wire HOHMANN & BARNARD.

E. Wire Mesh: Wire Mesh: 1/4" mesh of galvanized steel wire (min. 16 gage) or galvanized metal lath, cut into strips 1-1/2" narrower than wall width where used. For use at intersection of masonry walls.

F. Dovetail Anchors
1. Anchor Slots: 1 in. wide, 1 in. deep, 5/8 in. throat, 24 ga. galvanized steel. HECKMAN No. 100, HOHMANN & BARNARD, or equal.
2. Anchors: Brick, minimum 1 in. wide by 3-1/2 in long, flat or corrugated. HECKMAN No. 103 or 104; HOHMANN & BARNARD, or equal.

G. Reinforcing Steel - Bond Beam and Wall Reinforcement: Uncoated steel reinforcing bars; ASTM A615/A; ASTM A616, including Supplement 1; or ASTM A617/A, Grade 60.

H. Partition Top Anchors: 12 gage galvanized steel plate with 7/16-inch diameter holes. HOHMANN & BARNARD PTA 422 or equal.

2.08 MISCELLANEOUS ITEMS

A. Through-Wall Flashing: [Provide one of the following types:]
1. Copper Composite
   a. Characteristics:
      1) Type: Copper core with polymer fabric laminated to copper face on both sides with non-asphalt adhesive.
      2) Copper: ASTM B370, CDA Alloy 110
      3) Weight: 5 oz
      4) Fabric: polymer fabric; laminated both faces of copper core.
   b. Mastic/sealant: One part 100% solids, solvent-free formulated silyl-terminated polyether (STPE), ASTM C920, Type S, Grade NS, Class 50.

c. Termination Strip: Provide metal type recommended by flashing manufacturer. Seal top edge.
d. Manufacturers/Products
1) YORK MANUFACTURING, INC.; Multi-Flash
2) STS COATINGS, INC.; Gorilla Flash GF-500
3) WIRE-BOND, INC.; Copper Seal
4) ADVANCED BUILDING PRODUCT; Copper Sealtite

2. Rubber Sheet include on Daimler, etc. type projects
a. Material: Self-adhesive, cold-applied sheet consisting of 32 mil rubberized asphalt bonded to 8 mil polyethylene film. Provide with release film.
b. Mastic: Rubberized asphalt-based mastic.
c. Surface Primer (Conditioner): Type as recommended by manufacturer.
d. Termination Strip: Provide metal type recommended by flashing manufacturer. Seal top edge.
e. Manufacturer: Perm-A-Barrier by W. R. GRACE, IPCO Wall Flashing; ILLINOIS PRODUCTS CORPORATION, CCW 705 TWF; CARLISLE COATINGS AND WATERPROOFING, POLYGUARD 400 TWF, ADVANCED BUILDING PRODUCTS Strip –N -Flash

3. Elastomeric Thermoplastic Flashing: Composite flashing product consisting of a polyester-reinforced ethylene interpolymer alloy. Tensile Strength - ASTM D412C 14%, Puncture Resistance - ASTM E154 300 lbs. minimum
a. Self-Adhesive Sheet: Elastomeric thermoplastic flashing, 40 mil thick with thick coating of adhesive.
b. Manufacturer: DUPONT; HOHMANN & BARNARD, INC; MORTAR NET SOLUTIONS; WIRE-BOND.

4. Stainless Steel Core Flexible Flashing with Drainage Fabric (SSCFF).
a. Material: Composite with stainless steel with adhesive polymer fabric laminated to one stainless steel and non-woven drainage fabric laminated to opposing face with adhesive.
1) Stainless steel: type 304, ASTM A240
2) Polymer fabric; laminated back face to stainless steel core.
3) Non-woven drainage fabric: Fabric laminated to front face stainless steel core.
b. Manufacturer: YORK MANUFACTURING, INC.; York Flash-Vent SS, STS COATINGS, INC.; Wall Guardian Venting Stainless Steel TWF, BUILDING MATERIALS WEST COMPANY, INC.; Evacu-Flash SS
c. Note: Eliminate cavity protection material if SSCFF used.
d. Note: Eliminate drip edge by terminating at brick face and sealing down the flashing if SSCFF used. However, provide drip edges above windows and doors for replacement ease.

B. Sheet Metal Drip Edge: Fabricated from 0.015” thick by minimum 3” wide stainless steel with hemmed edge. Comply with requirements specified in Section 07 62 00 - Flashing and Sheet Metal.
1. Product: HECKMAN BUILDING PRODUCTS, IPCO stainless steel drip edge, ILLINOIS PRODUCTS CORPORATION or HOHMANN & BARNARD, INC.

C. Preformed Masonry Control Joint Filler
1. General: Extruded rubber complying with ASTM D2240, general purpose grade.
2. Flange: Where applicable, locate as required for the particular joint configuration.
3. Manufacturer: Rapid Regular Control Joint by DUR-O-WALL; HOHMANN & BARNARD, or equal.

D. Block Core Insulation - Contractor’s Option: Exterior concrete masonry walls and concrete masonry party walls: Contractor may use one of the insulation types as specified below. The same type must be used throughout the entire project. Provide one of the following insulation options:

1. Foam-In-Place Insulation: See Section 07 21 00.
2. Insulating Block Units: Insul Bloc by INSUL BLOCK CORP. (with integral insulating units) using lightweight aggregate for masonry block units.
3. Block Core Inserts: Provide insulation inserts installed in block plant prior to shipment to job site.
    a. Material: Expanded polystyrene designed to fit proposed masonry units. Conform to ASTM C578 Insulation Board-Thermal Type I and Type II.
    b. Thickness and R-Value: 2" thick, minimum 7.8 R-value.
    c. Manufacturer: Blocfil by MILLER MATERIAL CO.; KORFIL INC.; W.R. GRACE.

E. Brick Cleaning Compound: PROSOCO Sure Klean 600 Detergent; or equal commercial cleaning solution by NATIONAL CHEMSEARCH or AMERICAN CALMAL that will not harm masonry or adjacent materials and is acceptable to the masonry manufacturer. Cleaners containing muriatic acid are not acceptable.

F. Cell Vent: Polypropylene Model #QV Quadro Vent by HOHMANN & BARNARD; Model D/A 1006 by DUR-O-WALL or equal by HECKMANN. Color as selected by Architect.

G. Isolation Liners: Locate between steel columns and masonry. Asphalt impregnated cellular paper, similar to WILLIAMS PRODUCTS Columns Boxboard, 1/4" single thickness or 1/2" double thickness. Use double thickness except where wall dimensions do not permit, then use single thickness.

H. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells with loops for holding reinforcing bars in center of cells. Units are formed from 0.142” steel wire, hot-dipped galvanized after fabrication.
1. D/A 811 DUR-O-WALL
2. D/A 816 DUR-O-WALL
3. No. 376 Rebar Positioner HECKMAN
4. #RB Rebar Positioner HOHMANN & BARNARD
5. #RB-Twin Rebar Positioner HOHMANN & BARNARD
6. Double O-Ring Rebar Positioner MASONRY REINFORCING CORPORATION OF AMERICA
7. O-Ring Rebar Positioner MASONRY REINFORCING CORPORATION OF AMERICA

I. Adhesive Anchor Bolts
1. In hollow CMU: Adhesive anchor systems with nylon or stainless steel screen inserts. Use 1/2 inch diameter anchors with 4-1/4 inch embedment. (Minimum allowable shear 900 pounds; minimum allowable tension 250 pounds/anchor.)
2. In solid grouted CMU: Adhesive anchor systems. Use 1/2 inch diameter anchors with 4-1/4 inch embedment; (minimum allowable shear 2600 pounds; minimum allowable tension 2000 pounds/anchor).

J. Cavity Protection Material: Minimum 1” thick, reticulated, nonabsorbent mesh, made from polyethylene strands and shaped to maintain drainage at weep holes without being clogged by mortar droppings.
1. Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
    a. Mortar Net; MORTAR NET USA, LTD.
    b. Mortar Break; ADVANCE BUILDING PRODUCTS
    c. Mortar Net; MASONRY REINFORCING CORPORATION OF AMERICA.
    d. Mortar Net; HOHMANN & BARNARD, INC.
    e. CavClear Masonry Mat; ARCHOVATIONS
    f. Mortar Stop; POLYTITE MANUFACTURING CORP.
    g. Mortar Grab: IPCO PRODUCTS.

K. Concrete Block Vents: Extruded aluminum; nominal 8” high x 16” long x 4” deep; clear aluminum finish. SUNVENT INDUSTRIES Model EX or equal by AIROLITE or INDUSTRIAL LOUVERS, INC.

PART 3 EXECUTION

3.01 INSPECTION

A. Examine the substrates, structure, and installation conditions. Do not proceed with unit masonry work until unsatisfactory conditions are corrected.

3.02 PREPARATION

A. Brick
   1. Wet brick having ASTM C67 absorption rates greater than 0.025 oz. per square inch per minute. Use wetting methods which ensure that each masonry unit is nearly saturated, but surface dry when laid. During freezing weather, comply with the recommendations of BIA.
   2. Except for absorbent units specified to be wetted, lay masonry units dry.

B. Concrete Masonry Units: Lay masonry units dry. Do not wet concrete masonry units.

C. Establish lines, levels, and coursing.

D. Coordination: Identify items that are to be built-in to masonry wall as specified in other section of these specifications. Verify that these items are available prior to commencing masonry work in these areas. Coordinate sizes of required openings. Items include, but are not necessarily limited too:
   1. Access doors
   2. Recessed fire extinguisher cabinets
   3. Recessed toilet accessories

3.03 INSTALLATION - GENERAL

A. Build walls to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown or specified.

B. Cut masonry units using motor-driven masonry saws to provide clean, sharp, unchipped edges. Cut units as required to provide pattern shown and to fit adjoining work neatly. Use full-size units without cutting wherever possible. Provide 100% solid units where webs would be exposed.

C. Construction Tolerance: Comply with tolerances in ACI 530.1/ASCE 6/TMS 602 and the following:
   1. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than ¼" in 20 feet, nor ½" maximum.
   2. For vertical alignment of exposed head joints, do not vary from plumb by more than ¼" in 10 feet, nor ½" maximum.
   3. For conspicuous horizontal lines, such as exposed lintels, sills, parapets, and reveals, do not vary from level by more than ¼" in 20 feet, nor ½" maximum.
   4. For exposed bed joints, do not vary from thickness indicated by more than plus or minus 1/8", with a maximum thickness limited to ½". Do not vary from bed-joint thickness of adjacent courses by more than 1/8".
   5. For exposed head joints, do not vary from thickness by more than plus or minus 1/8". Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8".

D. Openings: Form all chases and openings required for piping and other trades. After work is completed, close openings with masonry and seal around penetration.

E. Seal all anchor penetrations and tears in the vapor barrier as a result of the work installed under this section.

3.04 ERECTION - BRICK AND CONCRETE MASONRY

A. Masonry

1. Layout walls in advance for accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate returns and offsets. Avoid the use of less than half-size units at corners, jambs and other locations.
2. Lay up walls plumb and true to comply with specified tolerance. Provide courses level, accurately spaced and coordinated with other work.
3. Pattern Bond: Lay exposed masonry in running bond with vertical joint in each course centered on units in courses above and below. Bond and interlock each course of each wythe at corners. Do not use units with less than 4" of horizontal face dimensions at corners.
4. Lay hollow concrete masonry units with full mortar coverage on horizontal and vertical face shells. Bed webs in mortar in starting course on footings and slabs. Maintain 3/8" joint widths, except for minor variations required to maintain bond alignment.

3.05 JOINTS

a. Exposed: Cut flush and finish (tool) with hardened metal tool to form a concave compressed joint. Same methods and types of tools to be used by all masons working on project.
b. Concealed: Cut flush and trowel point.

2. Compress and cut joints flush for masonry foundation walls.
3. Lay brick masonry units with completely filled bed and head joints. Butter ends with sufficient mortar to fill head joints and shove into place. Do not slush head joints.

B. Horizontal Wall Reinforcement: Provide continuous masonry joint reinforcement as indicated. Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch on exterior side of walls, 1/2 inch elsewhere. Lap reinforcement a minimum of 6 inches.
1. Space reinforcement not more than 16 inches o.c.
2. Space reinforcement not more than 8 inches o.c. in foundation walls and parapet walls.
3. Provide reinforcement not more than 8 inches above and below wall openings and extending 12 inches beyond openings.
a. Reinforcement above is in addition to continuous reinforcement.
4. Cut or interrupt joint reinforcement at control and expansion joints, unless otherwise indicated.
5. Provide continuity at corners and wall intersections by using prefabricated "L" and "T" sections. Cut and bend reinforcing units as directed by manufacturer for continuity at returns, offsets, column fireproofing, pipe enclosures, and other special conditions.
6. Provide additional reinforcement continuous in first joint above openings and in first joint below openings not extending to floor. Extend additional reinforcement a minimum of 4'-0" beyond opening.

C. Brick Veneer/Metal Stud Wall Ties: Install in accordance with manufacturer's instructions. Locate one tie per every two square feet of wall surface and in accordance to BIA Technical Notes No. 44B.

D. Cavity Wall Construction
1. Keep the air space clear and clean of all mortar droppings and other debris.
2. Provide weeps spaced 24 inches apart.
3. Provide cavity drainage protection or similar methods to ensure that weeps are clear of mortar droppings and drain to the building exterior.
4. Make weep holes by methods subject to Architect's approval
a. Gray Mortar: Louvered PVC weep, similar to HOHMANN & BARNARD #343 located in brick head joints.
b. Colored Mortar: Cellular weep vents located in brick head joints.
c. Tube and Cotton Wick: Medium Density Polyethylene
5. Provide top of wall weep ventilation with cellular vent at 24 inches apart.

E. Door Frames: Fill all frames installed in masonry with mortar.

F. Bearing Points

1. Lintels and Bar Joists: Where a lintel, bar joist or similar member bears directly on concrete masonry, fill the cores of the two blocks courses directly under the member with grout to a limit of 16 inches beyond the end of the member.
2. Precast Concrete Deck: Where precast concrete deck units bear directly on concrete masonry, fill the cores of the top two block courses with grout.

G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath in the joint below and rod mortar or grout into core.

H. Control and Expansion Joints: Provide control joints for exterior and interior masonry construction in accordance with NCMA-TEK Bulletins 10-1A and 10-2B and BIA Technical Notes 18A. Verify control
1. Unless otherwise indicated, provide control joints in masonry walls at maximum 24 foot intervals for exterior walls, maximum 30 foot intervals for interior walls, and at intersections of walls, except corners.
2. Exact locations as determined by the Architect if not specifically dimensioned. Verify locations do not conflict with structural shear wall requirements.
    a. If drawings do not indicate all control joints based on these maximums, allow for additional joints to be determined by the Architect prior to commencement of masonry work.
    b. Locate control at steel columns.
3. Provide 3/8" wide control joints, unless otherwise indicated. For joints in exterior walls, build in control joint filler strips as masonry wall is laid up allowing 3/4" for sealant and backup on each side of wall. For interior control joints, no filler is required; rake joint approximately 3/4" deep and install sealant and backup. See Section 07 92 00, Sealants.
4. Do not carry horizontal joint reinforcement through control joint.
5. Maintain lateral support of continuous wall at control joint in concrete block backup walls by using control joint filler, tongue and groove type control joint block, or similar type approved method. In cavity walls, place metal “Z” wall ties 16" on-center vertically in brick on each side of control joint.
6. Maintain lateral support of intersecting interior masonry walls with wire mesh ties placed across joint between walls, spaced 16" on-center vertically.

I. Thru-Wall Flashing
1. Provide at the following locations:
    a. In first course above steel supports and shelf angles.
    b. In first course above lintels at louvers, windows and doors.
    c. In first course above grade around entire building perimeter.
    d. In exterior walls that project above adjacent lower roof.
    e. Below sills of window, louver and similar type wall openings.
    f. Below parapet wall caps.
    g. Other through wall flashing conditions where indicated.
2. Ensure that flashings drain to exterior.
3. Prepare masonry surfaces smooth and free of projections which could puncture flashing.
4. Lay on slurry of fresh mortar and cover with mortar.
5. End Dams: Provide end dams at all locations where flashing terminates within a wall. Over openings, carry minimum 6" beyond end of steel lintel and turn up edges to form pan. All corners folded, not cut.
6. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch back from outside face of wall and adhere flexible flashing to top of metal drip edge.
7. Top Edge Concealed Terminations: 8 inch minimum above drainage plane.
8. Seal around all penetrations with mastic before covering with mortar.
9. Joints
    a. Install in longest lengths and with fewest joints possible but not less than 20 feet between joints.

b. Lap ends minimum 6 inches and seal with full bed of mastic.

10. Continue flashings around corners and other gaps in shelf angles to prevent discontinuity.
11. Continue flashing through expansion joints.
12. Provide weeps at all thru-wall flashing locations. Space weeps as specified hereinbefore.

J. Place cavity drainage material in cavities to comply with configuration requirements for cavity drainage material specified herein.

K. Masonry, non-bearing walls carried to structure above: Terminate at normal joint width below surface and leave joint open for sealants.
1. At fire-rated partitions, install firestopping in joint between top of partition and underside of structure above to comply with Section 07 84 00, Firestopping.

L. Stopping and Resuming Work: In each course, rack back one-half-unit length for one-half running bond or one-third-unit length for one-third running bond; do not tooth. Clean exposed surfaces of set masonry, wet clay masonry units lightly if required, and remove loose masonry units and mortar before laying fresh masonry.

M. Built-in Work: As construction progresses, build in items specified under this and other Sections of the Specifications. Fill in solidly with masonry around built-in items.

N. Steel Lintels: Install steel lintels at all masonry opening, whether indicated on the drawings or not. Provide minimum bearing of 8” an each jamb, unless otherwise indicated.

O. Insulation Fill
1. Place where indicated on the Drawings.
2. Pour directly into the wall from the bag or from a hopper.
3. Pours may be made at any convenient interval; however, extreme care shall be exercised to be sure that all cores are full of insulation.
4. Place temporary signs on walls and warn other trades to use caution in cutting into wall to avoid loss of insulation.

P. Removal of Masonry Units
1. Limits: As shown on the Drawings or as directed in writing by the Architect.
2. Method
a. Remove to first full masonry unit beyond limits.
b. Remove all old mortar from existing masonry units adjacent to new construction.
c. Sufficiently brace opening when necessary until construction is completed.

Q. Patching Existing Walls
1. Location: Where indicated on the Drawings.
2. Closure Limits
a. As required to install door or window frame in larger opening.
b. As required to fill entire opening.
c. To limits indicated on Drawings.
3. Materials: Use new masonry units conforming to existing wall section in color, size and characteristics.
4. Method
a. Tooth-in new masonry units.
5. Apply mortar to all vertical and horizontal surfaces of units forming joints in new wall section.
a. Use half units when necessary to make square openings of complete closure.

R. Limestone Belt Course: Set limestone with completely filled bed and head joints. Butter ends with sufficient mortar to fill head joints and shove into place. Do not slush head joints.

S. Brick Arches
1. Construct arches so that the following applies:
a. length of span remains constant
b. elevations of the ends are unchanged

c. The inclination of the skewback (inclined surface on which the arch joins the supporting wall) is fixed.

2. Care must be taken to insure that the preceding requirements are maintained and, that sliding, settlement or rotation of the abutments does not occur.
3. Construct arches with aid of temporary shoring or centering.
4. Do not remove centering until masonry is capable of carrying all imposed loads and in no case less than seven days after the completion of the arch.
5. Use units of uniform shape, vary joint thickness to obtain desired curvature.
6. Construct arches with all mortar joints completely filled, except hold mortar on underside of arches back from face of brick a minimum of 5/8".
7. After removing centering, tuck point joints on underside of arches to match adjacent joints in masonry walls.

T. Soldier Courses: Construct soldier courses where indicated on drawings.
1. Projection: 1/2" from face of wall.
2. Corner: Provide "queen closures" at 90o corners.

3.06 MORTAR

A. General
1. Batch Size: Controlled so that all material used within two (2) hours.
2. Mortar on Board
a. Keep well tempered with water so long as its cementing material has not started to set.
b. Do not retemper if initial set of cementing material has been reached, or if mortar has stiffened greatly.
3. Anti-freeze Admixture: Not permitted.
4. Water Repellent Admixture: Use with brick and concrete block exposed to exterior, mix as recommended by manufacturer.

B. Mixing
1. Machine mix dry in a batch mixer with care taken in adding water to mix to avoid overwetting.
2. Do not retamper in mixer at any time.
3. Continue mixing for a minimum of five (5) minutes after all materials are in mixer.

C. Recharging: Completely empty and clean mixer before recharging.

3.07 PROTECTION

A. Brace all walls while in green condition.

B. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
1. Extend cover a minimum of 24 inches down both sides and hold cover securely in place.
2. Where one wythe of multiwythe masonry walls is completed in advance of other wythes, secure cover a minimum of 24 inches down face next to unconstructed wythe and hold cover in place.

3.08 REINFORCED MASONRY INSTALLATION

A. Placing Reinforcement: Comply with requirements of ACI 530.1/ASCE 6/TMS 602.
1. General: Clean reinforcement of loose rust, mill scale, earth, ice or other materials which will reduce bond to mortar or grout. Do not use reinforcement bars with kinks or bends not shown on drawings or final shop drawings, or bars with reduced cross-section due to excessive rusting or other causes.

B. Grouting: Do not place grout until entire height of masonry to be grouted has attained sufficient strength to resist grout pressure.

1. Comply with requirements of ACI 530.1/ASCE 6/TMS 602 for cleanouts and for grout placement, including minimum grout space and maximum pour height.
2. Use "Fine Grout" per ASTM C 476 for filling spaces less than 4" in one or both horizontal directions.
3. Use "Coarse Grout" per ASTM C 476 for filling spaces 4" to 10" in both horizontal directions.
4. Use 3000 psi concrete for filling spaces 10" or larger in both horizontal directions.

C. Bond Beams: Reinforce as indicated and fill with grout. Position reinforcement accurately at the spacing indicated. Place horizontal reinforcement as the masonry work progresses.

D. Reinforced Concrete Masonry Walls: Install and align grout block units to provide continuous vertical voids in walls. Install reinforcing steel as work progresses. Use horizontal bars to position vertical bars. Fill grout block units cores solid with concrete fill.
1. Place concrete fill in maximum 4’-0” vertical lifts. Recess top of fill minimum 1-1/2” below top of course to form a key with the following lift. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
2. Coordinate placement of reinforcement and concrete fill with cast-in-place concrete and precast concrete work to provide continuous vertical and horizontal reinforcement full height of indicated walls.

3.09 FIELD QUALITY CONTROL

A. Owner will engage a qualified independent testing agency to perform source quality-control testing indicated below:
1. Retesting of materials failing to meet specified requirements shall be done at Contractor’s expense.

B. Testing Frequency: Tests and Evaluations listed in this Article will be performed during construction for each 5000 sq. ft. of wall area or portion thereof.

C. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to ASTM C780.

D. Grout will be sampled and tested for compressive strength per ASTM C1019.

E. Brick Tests: For each type and grade of brick indicated, units will be tested according to ASTM C67.

F. Concrete Masonry Unit Tests: For each type of concrete masonry unit indicated, units will be tested according to ASTM C140.

G. Prism-Test Method: For each type of wall construction indicated, masonry prisms will be tested per ASTM C1314, and as follows:
1. Prepare 1 set of prisms for testing at 7 days and 1 set for testing at 28 days.

3.10 REPAIR, POINTING AND CLEANING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged. Provide new units to match adjoining units and install in fresh mortar pointed to eliminate evidence of replacement.

B. During the tooling of joints, enlarge all voids or holes, and completely fill with mortar. Point up all joints at corners to provide a neat, uniform appearance.

C. Cleaning - Brick Masonry: Clean all exposed brick masonry. Cleaning agents and methods subject to Architect's approval. Protect all stone. Damaged materials and work replaced at Contractor's expense.
1. Before full-scale application, review manufacturer's product data sheets to determine the suitability of each product for the specific surfaces. Apply each masonry cleaner to test panel areas to determine dilution rates, dwell times, number of applications, compatibility, effectiveness, application procedures, effects of pressure rinsing, and desired results.
2. Apply masonry cleaners and stain removers to test panels in accordance with manufacturer's written instructions. Allow 48 hours or until test panels are thoroughly dry

before evaluating final appearance and results. Do not begin full-scale application until test panels are inspected and approved by the Architect.

3. Test Area Requirements:
   a. Size: Minimum 5 feet by 4 feet each.
   b. Locations: As determined by the Architect.
   c. Masonry Cleaners: Number of test panels as required to completely test each masonry cleaner with each type of substrate to be cleaned.
4. Test all cleaning effluents generated by the masonry cleaning of the test panels to determine any hazardous characteristics. Comply with applicable federal, state, and local environmental regulations including testing, handling, treatment, containment, collection, transport, disposal, and discharge of hazardous wastes.
5. Muratic acid cleaning of brick masonry not permitted. Install and protect installed brick masonry so that acid cleaning is not required at completion of the work.

D. Cleaning – Concrete Masonry: During construction of exposed CMU, minimize mortar and grout smears on exposed surfaces. Dry brush CMU surfaces at the end of each days work and after final pointing. Remove mortar stains and dirt from exposed surfaces.
   1. Cleaning Solutions: Where cleaning solutions are required, they shall be provided at no additional cost to the Owner. Cleaning solutions must be approved by Architect and spot tested prior to use.

E. Area Cleaning: Clean floors of all mortar droppings, including floor surfaces of accessible chases.

3.11 MASONRY WASTE DISPOSAL

A. Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Disposal as Fill Material: When approved by Geotechnical Engineer, dispose of clean masonry waste, including broken masonry units, waste mortar, and excess or soil-contaminated sand, by crushing and mixing with fill material as fill is placed.

3.12 CRUSH MASONRY WASTE TO LESS THAN 4 INCHES IN EACH DIMENSION.

A. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 31 30 00, Earthwork. All fill material must be approved by Geotechnical Engineer.

B. Disposal as Fill Material: When approved by Geotechnical Engineer, dispose of clean masonry waste, including broken masonry units, waste mortar, and excess or soil-contaminated sand, by crushing and mixing with fill material as fill is placed.
   1. Crush masonry waste to less than 4 inches in each dimension.
   2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 31 30 00, Earthwork. All fill material must be approved by Geotechnical Engineer.
   3. Do not dispose of masonry waste as fill within 18 inches of finished grade.

C. Excess Masonry Waste: Remove excess, clean masonry waste that cannot be used as fill, as described above, and other masonry waste, and legally dispose of off Owner's property.

3.13 REPOINTING EXISTING WALLS

A. Remove mortar to a depth of at least 1/2" with hand or power tool.

B. When cutting is complete, remove all loose material with a brush or hose stream.

C. Point joints with prehydrated Type N mortar consisting of 1 part Portland cement, 1 part Type S hydrated lime, 6 parts sand.

D. Wet raked mortar joints thoroughly before applying fresh mortar. Allow water to soak into wall so no free-standing water is visible.

E. Pack mortar tightly in thin layers until joint is filled, then tool to a smooth concave surface.

END OF SECTION 04 00 00

This page intentionally left blank

SECTION 04 72 00
CAST STONE

PART 1 GENERAL

1.01 WORK INCLUDED

A. Design and fabricate cast stone elements as indicated on the drawings. Work includes, but is not necessarily limited to the following:
   1. Wall caps.
      ~~Wall panels.~~
   2. ~~Water table bands and~~ Window sills.
   3. Window Headers
      ~~Column wraps.~~
   4. Other shapes as indicated.
   5. Non-staining setting mortar and joint sealant.
   6. Accessories to complete the work.
   7. Connection details.

1.02 RELATED SECTIONS

A. Cast-in-Place Concrete: Section 03 30 00.

~~Architectural Precast Concrete: Section 03 45 00.~~

B. Mortar: Section 04 00 00.

C. Sealant: Section 07 92 00.

~~Sustainable Design Requirements: Section 01 81 13.~~

~~VOC Limits: Section 01 81 16.~~

1.03 REFERENCE STANDARDS

A. ASTM C642 - Standard Test Method for Density, Absorption, and Voids in Hardened Concrete; 2021.

B. ASTM C1364 - Standard Specification for Architectural Cast Stone; 2023.

C. PCI MNL-117 - Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products; 2013.

1.04 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Shop Drawings: Submit for all items; include the following as applicable:
   1. Details and sizes of stones.
   2. Arrangement of joints.
   3. Connection details.
   4. Bonding.
   5. Inserts.
   6. Joints.
   7. Reinforcing.
   8. Method of installation and anchoring.

C. Samples: Submit samples representative of finished stone pieces showing full range of color and texture. Resubmit until acceptance by the Architect. Approved samples will be used in the field as a basis of quality for cast stonework submitted on the project.

D. Design Calculations: Submit calculations for each type, shape, loading condition and span of cast stone units indicated on the drawings, and all related supports and connections. Design of cast stone shapes and connections shall be under the direct supervision of a Professional Engineer, registered in the State of [Ohio], and calculations shall bear engineer's seal and signature.

E. Qualification Data: For manufacturer.

F. Existing Stone Shapes: Where new shapes are being reproduced to match existing profiles and shapes, existing items can be removed and used to fabricate cast stone molds. Remove items by hand and take cautionary methods so as not to damage item being removed and adjacent materials.

~~Sustainable Design Documentation Submittals: Comply with Section 01 81 13.~~

~~VOC Limits: Include documentation verifying product Low-Emitting Material Building Product Disclosures and Optimization.~~

1.05 QUALITY ASSURANCE

A. Acceptable Manufacturers: Minimum of five (5) years continuous production experience in cast stone work of quality and scope required on this project , and is a plant certified by the Cast Stone Institute.

B. Installer Qualifications: Experienced mason regularly engaged for at least five (5) years in installation of cast stone elements similar to those required on this project.

C. Comply with ASTM C1364.

1.06 JOB MOCK-UP

A. General
1. After standard samples are accepted for color and texture, submit full scale pieces meeting design requirements.
2. A mock-up panel for the exterior masonry is to be built on the site, as specified in Section 04 00 00.
   a. Water Table Bands and Wall Caps: Submit full size samples of shapes that will be utilized in the finished work. Samples of water table band and wall cap will be used in constructing the sample panel specified in Section 04 00 00.
3. Mock-up to be standard quality for cast stone work when accepted by the Architect.

1.07 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Delivery and Handling
1. Transport and handle cast stone with equipment to protect units from dirt and damage.
2. Do not place on ground.
3. Place nonstaining resilient spacers of even thickness between each element.
4. Support cast stone during shipment on expanded polystyrene or similar nonstaining shock-absorbing material.

B. Storage
1. Store to protect from contact with soil and from other damage.
2. Store in same position as transported with nonstaining resilient supports located in same position as when transported.
3. Store on firm, level and smooth surfaces.
4. Place stored cast stone so that identification marks are discernible.

PART 2 PRODUCTS

2.01 MATERIALS

A. Cement: White Portland Cement, ASTM C150, Type I or III containing not more than 0.60 percent total alkali when tested according to ASTM C114. .
1. Use same brand, type and source of supply throughout.

B. Fine Aggregate: Graded and washed manufactured limestone sand meeting ASTM C33; gradation and colors as needed to produce required cast stone textures and colors.
1. Use same type and source of supply throughout.

C. Course Aggregate: Graded and washed crushed limestone meeting ASTM C33; gradation and colors as needed to produce required cast stone textures and colors.
1. Use same type and source of supply throughout.

D. Color: Inorganic, natural or inorganic iron oxide pigments meeting ASTM C979 excluding the use of a cement grade of carbon black pigment.
   1. Pigment manufacturer must certify that pigment is lime-proof.
   2. Amount: Not to exceed 10% by weight of cement.
   3. Manufacturer: SGS Colors by SOLOMON GRIND CHEM SERVICE; DAVIS COLORS or equal.
   4. Color: Where required, as selected by Architect.
      a. Match existing stone. Color match will be determined after cleaning the existing stone.

E. Admixtures: Use only admixtures specified or approved in writing by Architect.
   1. Do not use admixtures that contain more than 0.1 percent water-soluble chloride ions by mass of cementitious materials. Do not use admixtures containing calcium chloride.
   2. Use only admixtures that are certified by manufacturer to be compatible with cement and other admixtures used.
   3. Water Repellent Admixture: MASTERBUILDERS Rheomix 235, EUCLID CHEMICAL, SONNEBORN. Cast stone fabricator must submit certification that proposed water repellent admixture has been used in cast stone work similar to that used on this project.
   4. Air-Entraining Admixture: ASTM C260. Add to mixes for units exposed to the exterior at manufacturer's prescribed rate to result in an air content of 4 to 6 percent, except do not add to zero-slump concrete mixes.
   5. Water-Reducing Admixture: ASTM C494, Type A.

F. Water: Potable.

G. Mortar: Type N; see Section 04 00 00.

H. Anchors (Embedded in Cast Stone): Stainless steel, AISI Type 302/304 of type and size determined by fabricator to provide permanent anchorage. Minimum capacity 3 kips.

I. Reinforcing
   1. Bars: ASTM A615, Grade 40 or Grade 60, when required, as determined by manufacturer, for safe handling, setting and structural stress. Provide galvanized or epoxy coated.
      a. Fiber reinforced polymer bars or fiber reinforcement is acceptable per ASTM D7957/D7957M.
   2. Wire: ASTM A82 Cold-drawn steel wire, ASTM A185 or ASTM A497 welded wire fabric reinforcement, or ASTM A184 steel bar or rod mat reinforcement may be used.
   3. Cast Stone Panels: Reinforce as required for handling and to allow for temperature changes and structural stress. Provide a minimum steel reinforcement of 1/4% of the sectional area of the panel; place temperature in both directions when panel is greater than 12" in any direction.

2.02 MIXES

A. Manufacturer: Responsible for mix design as required to achieve strength and surface finish desired.

B. Compressive Strength - 28 Day: Minimum of 6500 psi per ASTM C1194.
   1. Tests: Perform in accordance with ASTM C31, ASTM C39 and ASTM C642, except that 2" cube specimens shall be used, oven dried in accordance with ASTM C97.
   2. Results: Determined by averaging three specimens per test.
   3. Divide compression test results by a factor of 0.8 when saw-cut or core drilled specimens are used.

C. Water Absorption - Average: Maximum 6% dry weight per ASTM C1195.

D. Air Content - ASTM C173 or C 231, for wet cast product shall be 4-8% for units exposed to freeze-thaw environments. Air entrainment is not required for VDT products.

E. Freeze-thaw - ASTM C666 as modified by ASTM C1364: The CPWL shall be less than 5% after 300 cycles of freezing and thawing.

F. Linear Shrinkage - ASTM C 426: Shrinkage shall not exceed 0.065%.

2.03 COLOR AND FINISH

A. Color and Texture: Submit cast stone samples for final selection of color and texture.
   1. Color: Natural limestone.
   2. Finish: As achieved by acid etch method. Natural limestone appearance.
      ~~Color: Match existing building stone as approved by Architect.~~
      ~~Finish: Match existing stone as approved by Architect.~~

2.04 CAST STONE UNITS

A. Regional Materials: Cast stone units shall be manufactured within 500 miles of Project site from aggregates that have been extracted, harvested, or recovered, as well as manufactured, within 500 miles of Project site.

B. Provide cast stone units complying with ASTM C1364 using either the vibrant dry tamp or wet-cast method.
   1. Provide units that are resistant to freezing and thawing as determined by laboratory testing according to ASTM C 666, Procedure A, as modified by ASTM C1364.

C. Fabricate units with sharp arrise and accurately reproduced details, with indicated texture on all exposed surfaces unless otherwise indicated.
   1. Provide suitable washes on all exterior copings, projecting courses and pieces with exposed top surfaces.
   2. Provide raised fillets at backs of sills and at ends indicated to be built into jambs.
   3. Provide drips on projecting elements unless otherwise indicated.

D. Fabrication Tolerances:
   1. Variation in Cross Section: Do not vary from indicated dimensions by more than 1/8 inch.
   2. Variation in Length: Do not vary from indicated dimensions by more than 1/360 of the length of unit or 1/8 inch, whichever is greater, but in no case by more than 1/4 inch.
   3. Warp, Bow, and Twist: Not to exceed 1/360 of the length of unit or 1/8 inch, whichever is greater.
   4. Location of Grooves, False Joints, Holes, Anchorages, and Similar Features: Do not vary from indicated position by more than 1/8 inch on formed surfaces of units and 3/8 inch on unformed surfaces.

E. Cure units as follows:
   1. Cure units in enclosed moist curing room at 95 to 100 percent relative humidity and temperature of 100 deg F for 12 hours or 70 deg F for 16 hours.
   2. Keep units damp and continue curing to comply with one of the following:
      a. No fewer than five days at mean daily temperature of 70 deg F or above.
      b. No fewer than six days at mean daily temperature of 60 deg F or above.
      c. No fewer than seven days at mean daily temperature of 50 deg F or above.
      d. No fewer than eight days at mean daily temperature of 45 deg F or above.

F. Acid etch units after curing to remove cement film from surfaces to be exposed to view.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine surfaces to receive cast stone and do not proceed until defects detrimental to the finished work are corrected, including the moisture protection, structural supports, provisions for expansion, or any other conditions which might affect the finished work in appearance, watertightness or integrity of the complete installation.

B. Verify all measurements and dimensions; coordinate the installation of inserts for this work; and coordinate and schedule this work with the work of other trades.

C. Review shop drawings of items or assemblies related to the support or anchorage of cast stone work, including requirements for clearances for proper installation.

3.02 INSTALLATION

A. Do not use cast stone with chips, cracks, voids, stains or other defects which would be visible in the finished work. The setting of any damaged or defective stone is at Contractor's risk of removal.

B. Set cast stone work accurately, straight, level, plumb and square in accordance with Shop Drawings.

C. Unless otherwise indicated, set stone in full mortar bed with vertical joints flushed full. Anchors and dowels shall be firmly placed and all anchor holes and dowel holes and similar holes filled completely with mortar.
   1. Copings, projecting belt courses, and in general, all stone areas either partially or totally horizontal: Set with unfilled vertical joints. After setting, insert back-up material or backer rod, prime stone ends and seal, all in accordance with Section 07 92 00.
   2. Joints Between Cast Stone and Masonry: Rake joints ¾" deep and seal with non-staining joint sealant in accordance with Section 07 92 00. This requirement takes precedence over joint conditions indicated on drawings.

D. Thoroughly wet stones prior to setting.

E. At sealed or pointed joints, rake joints to a depth of 3/4". Sponge off face of stones to remove excess mortar.

3.03 TOLERANCES

A. Variation from Plumb: Do not exceed 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.

B. Variation from Level: Do not exceed 1/8 inch in 10 feet, 1/4 inch in 20 feet, or 1/2 inch maximum.

C. Variation in Joint Width: Do not vary joint thickness more than 1/8 inch in 36 inches or one-fourth of nominal joint width, whichever is less.

D. Variation in Plane between Adjacent Surfaces (Lipping): Do not vary from flush alignment with adjacent units or adjacent surfaces indicated to be flush with units by more than 1/16 inch, except where variation is due to warpage of units within tolerances specified.

3.04 PATCHING AND CLEANING

A. Remove and replace stained and otherwise damaged units and units not matching approved Samples. Cast stone may be repaired if methods and results are approved by Architect. Repair of cast stone shall be done only by mechanics skilled in this type of repair work, with materials furnished by manufacturer and under manufacturer's direction

B. Before pointing, clean face of cast stone with a fiber brush, soap powder and water, and thoroughly rinse with clean running water.
   1. Remove excess mortar from face of stone.
   2. No acids or prepared cleaners are permitted without the approval of cast stone manufacturer and Architect.

3.05 POINTING AND SEALING

A. Dampen joints prior to pointing.

B. Point stone joints to a concave surface with pointing mortar. See Section 04 00 00 for mortar.
   1. Pointing in freezing weather or in locations exposed to hot sun, unless properly protected, is not permitted.

C. Seal head joints, where left open for sealing, with sealant in accordance with Section 07 92 00.

3.06 INSPECTION AND ACCEPTANCE

A. Cast stone shall show no obvious repairs or imperfections other than normal color variations when viewed with the unaided eye at a 20 foot distance in good typical daylight illumination.

B. Applicable Standards for Inspection and Quality Control: ACI Committee 311 Manual of Concrete Inspection and PCI MNL-117 Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products.

3.07 PROTECTION

A. Protect cast stone at all times from drippings, welding spatter and damage by other trades during construction. Where necessary or directed, substantial non-staining wooden or other approved covering shall be placed to protect the work. Heavy polyethylene film or similar type material shall be used between cast stone and wood. Maintain all protection until removed to permit final cleaning of cast stone work.

1. Protect cast stone during brick cleaning operations, unless cleaning solution has been approved for cast stone and tested in the field on actual cast stone samples.

END OF SECTION 04 72 00

SECTION 04 73 10
MANUFACTURED STONE VENEER

PART 1 GENERAL

1.01 WORK INCLUDED

A. Manufactured stone veneer and shapes, metal anchors, lath and accessories.

1.02 RELATED SECTIONS

A. Mortar: Section 04 00 00.

B. Sealant: Section 07 92 00.

~~Sustainable Design Requirements: Section 01 81 13.~~

~~VOC Limits: Section 01 81 16.~~

1.03 REFERENCES

A. ASTM C150 - Specifications for Portland Cement.

B. ASTM C177 - Test Method for Thermal Conductivity by Means of the Guarded Hot Plate.

C. ASTM C270 - Specification for Mortar for Unit Masonry.

D. Underwriters' Laboratories, UL723 - Test for Surface Burning Characteristics of Building Materials.

1.04 SUBMITTALS

A. Product Data: Submit for all items.

B. Samples: Submit samples for selection by Architect.

C. Submit manufacturer's written installation instructions. Include instructions for each type of substrate and mounting conditions encountered on Project.

~~Sustainable Design Documentation Submittals: Comply with Section 01 81 13.~~
~~VOC Limits: Include documentation verifying product Low Emitting Material Building Product Disclosures and Optimization.]~~

1.05 QUALITY ASSURANCE

A. Applicator: Approved by manufacturer with a minimum of three years experience in the installation of manufactured veneer of the type specified.

1.06 SAMPLE PANEL

A. Construct where approved by Architect.

B. Panel shall be at least 4 feet long by 4 feet high and shall show full color range, joint detail, all other details of construction that will be used in the completed work. Include at least one 90 degree corner.

C. Construct additional panels as required by Architect if original panel construction is not acceptable.

D. Do not start simulated masonry application until the sample panel is approved by the Architect.

E. Retain acceptable sample as reference standard for the project.

F. Demolish and remove panel from site after completion and acceptance of simulated masonry work.

1.07 DELIVERY, STORAGE AND HANDLING

A. Conform to the requirements of the stone manufacturer. Ship materials in their original cartons or wrappings.

B. Store moisture sensitive materials in protected enclosures; handle by methods which avoid exposure to moisture.

1.08 PROJECT CONDITIONS

A. Maintain materials and surrounding air temperature at minimum 40 degrees F prior to, during, and for 48 hours after application.

B. Protect materials from rain, moisture, and freezing temperatures prior to, during, and for 48 hours after application.

C. Allow no construction work on opposite side of wall to which work is being applied during and for 48 hours after application.

PART 2 PRODUCTS

2.01 MANUFACTURER

~~Basis of Design: HERITAGE STONE Santee Ledgestone.~~

A. Basis of Design: Dutch Quality Stone - Limestone, Ohio

B. Other Manufacturers: Subject to compliance with requirements, products by the following manufacturers are acceptable::
   1. CORONADO PRODUCTS
   2. ELDORADO STONE
   3. BORAL STONE PRODUCTS
   4. BOULDER CREEK STONE PRODUCTS
   5. HERITAGE STONE

2.02 MATERIALS

A. Description: Thin veneer sections comprised of noncombustible lightweight aggregates, Portland cement and natural iron oxide colorings.

B. Bonding Mortar: Type N as specified in Section 04 00 00. Natural color.

C. Grouting Mortar: Type N as specified in Section 04 00 00. Colors as selected by Architect.

D. Metal Lath: ASTM C847; 3.4 pound flat diamond mesh, galvanized. Provide galvanized steel anchor plates (similar to RODENHOUSE Grip-Plate Lath and Plaster Washer) and galvanized fasteners as recommended by stone manufacturer for substrate conditions and insulation/sheathing thicknesses.

E. Cleavage Membrane/Water Resistive Barrier: Provide type as recommended by stone manufacturer.

2.03 MANUFACTURED UNITS

A. Physical Properties
   1. Compressive Strength: ASTM C192 and ASTM C39, 1800 psi, 5 specimen average, 1500 psi minimum for individual unit.
   2. Bond Between Stone Unit, Type S Mortar, and Backing: ASTM C 482, 50 psi
   3. Freeze-Thaw Test: ASTM C 67: Less than 3%
   4. Water Absorption: UBC Standard 15-5: 22 percent
   5. Density: ASTM C 567 (Dry density): 75 pcf

B. Burning Characteristics
   1. Smoke Developed: 0.
   2. Fuel Contributed: 0.
   3. Flame Spread: 0.

C. Colors: As selected by Architect.

D. Provide all trim pieces as indicated

E. Provide plaster ring at surface mounted fixtures and similar items. Type as recommended by stone manufacturer. Thickness to match stone.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine substrates upon which manufactured masonry will be installed.

B. Coordinate with responsible entity to correct unsatisfactory conditions.

C. Commencement of work by installer is acceptance of substrate conditions.

3.02 PREPARATION

A. Protection: Protect adjacent work from contact with mortar.

B. Surface Preparation: Prepare substrate in accordance with manufacturer’s installation instructions for the type of substrate being covered.

3.03 INSTALLATION

A. Install system complete in accordance with manufacturer's instructions and recommendations for the types of substrates encountered and the Masonry Veneer Manufacturers Association's (MVMA) Installation Guide and Detailing Options for Compliance with ASTM C1780.

B. Expansion and Control Joints: Locate joints in accordance with ASTM C1780.

3.04 FIELD QUALITY CONTROL

A. Manufacturer's Field Services: Provide the services of manufacturer’s field representative during installation.

END OF SECTION 04 73 10

This page intentionally left blank

SECTION 06 40 00
ARCHITECTURAL WOODWORK

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide architectural woodwork as indicated and specified. Work includes:

~~Custom Casework. Include the following: use the following if no Section 12 33 55 work~~
~~Reception Desk XXX~~
~~Circulation Desk XXX~~
~~Custom type [plastic laminate] clad casework and countertop components as detailed on the drawings.~~
~~All other plastic laminate casework: Section 12 33 55 for modular type plastic laminate clad casework and components. Work includes fabrication and installation of standard base and wall cabinet components, shelving, fillers and panels.]~~
~~Plastic laminate window stools.~~
~~Plastic laminate countertops.~~
~~Solid surfacing countertops.~~
~~Solid surfacing window stools.~~

1. Quartz composition countertops.

~~Slatwall panels and assembly.~~
~~Shelving and accessories.~~
~~Adjustable shelving, plastic laminate finish.~~
~~Fixed shelving and coat rod, plastic laminate finish.~~

2. Miscellaneous fasteners and hardware.

1.02 RELATED SECTIONS

A. Rough Carpentry: Section 06 10 00.

~~Wood Blocking: Section 06 10 50~~

B. Finish Carpentry: Section 06 20 00.

C. Painting and Finishing: Section 09 91 00.

~~Plastic Laminate Casework: Section 12 33 55.~~

~~Sustainable Design Requirements: Section 01 81 13.~~

~~VOC Limits: Section 01 81 16.~~

1.03 REFERENCES

A. Standards: Wherever the following abbreviations are used herein, they shall refer to the corresponding standard:

1. ANSI: American National Standards Institute.
2. AWI: Architectural Woodwork Institute.
3. NEMA: National Electrical Manufacturer's Association.
4. P.S.: U.S. Product Standard.

1.04 SUBMITTALS

A. Product Data: Submit for all items.

B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment devices, and other components.

1. Provide large scale details.
2. Indicate methods of fabrication, edging, location and construction of joints.
3. Show locations and sizes of furring, blocking, and hanging strips, including concealed blocking and reinforcement specified in other Sections

C. AWI Quality Standards: A photo-copy of the applicable portions of the AWI publication "Architectural Woodwork Quality Standards", latest edition, shall be submitted with each set of shop drawings.
   1. Each copy must be marked to clearly show all details, specifications and finishes proposed for this work.

D. Submit samples of all finish materials, including the following:
   1. Plastic laminate for texture and color selections. (8” x 10”).
   2. Cabinet hardware (1 of each type).
   3. Lumber with transparent finish for each species and cut. (12")
   4. Wood veneer faced panel products with transparent finish (12” x 24").
   5. Solid or quartz surface material.

E. Manufacturer's product data describing type and quality of the following:
   1. Plastic laminate (face grade and liner grade).
   2. Cabinet hardware (each type).

F. Submit certification that fire-retardant treatment materials comply with governing ordinances and meet or exceed ASTM E84 tests. Include certification by treating plant that treatment will not bleed through finish surfaces. Materials shall bear UL label showing Flame Spread 25 or less and smoke developed 40 or less. Mill certification is not acceptable.

~~Sustainable Design Documentation Submittals: Comply with Section 01 81 13.~~
~~VOC Limits: Include documentation verifying product Low Emitting Material.~~
~~Building Product Disclosures and Optimization.~~

1.05 DEFINITIONS

A. Exposed Portions of Casework: Include surfaces visible when doors and drawers are closed. Bottoms of casework more than 4 feet above floor and tops less than 6 feet 6 inches above floor shall be considered as exposed. Visible members in open cases or behind glass doors also shall be considered as exposed portions.

B. Semi-Exposed Portions of Casework: Includes those members behind opaque doors, such as shelves, divisions, interior faces of ends, case back, drawer sides, backs and bottoms, and back face of doors. Tops of casework 6 feet 6 inches or more above floor shall be considered semi-exposed.

C. Concealed Portions of Casework: Include sleepers, web frames, dust panels, and other surfaces not usually visible after installation.

1.06 QUALITY ASSURANCE

A. Fabricator qualifications: A firm specializing in the fabrication of millwork with a minimum of 5 years experience and a satisfactory record of performance on projects of comparable size and quality. Shop is in compliance with all AWI's Quality Certification Program requirements.

B. Installation: Performed only by skilled finish carpenters with a minimum of 3 years experience in installing custom millwork similar to that required for this project.

C. All solid surface material type work shall be performed by a Manufacturer Certified fabricator.

D. Provide lumber factory marked with type, grade, mill and grading agency identification on concealed surfaces. Omit marking and submit mill certificates for materials to receive transparent finishes that cannot be marked on a concealed surface.

E. Quality Grade: Materials and fabrication shall be "custom grade" unless otherwise indicated on the drawings or specified herein as "premium grade", both in accordance with "Quality Standard Illustrated," of the AWI conforming to the following sections:
   1. Section 100: Solid wood members.
   2. Section 200: Plywood and particleboard.
   3. Section 400: Casework and tops.
   4. Section 500: Paneling.
   5. Section 1500: Factory finishing.

6. Section 1700: Installation of architectural woodwork.

F. Mock-up: Before beginning "matched panel" work construct full scale corner condition extending 8'-0" (minimum) each direction, demonstrating veneer grain matching, joint construction, range of color and general workmanship, including trim work.
   1. Approved mock-up will establish minimum standards of quality and workmanship for Architectural Woodwork.
   2. Mock-up shall remain on site until completion and acceptance of paneling work. When coordinated with Architect, mock-up may be incorporated into the final work.

1.07 DELIVERY, STORAGE AND HANDLING

A. Protect woodwork materials and items during delivery, storage and handling to prevent damage, soiling and deterioration.

B. Do not deliver woodwork materials and items until concrete, masonry, painting, grinding and other similar wet work has been completed and is thoroughly dry, outside door openings are permanently watertight, exterior windows are glazed and, in case of temperature dropping below 60o F., until temporary heating and ventilating systems are in operation.

C. Store materials in dry, well-ventilated spaces with constant minimum temperature of 60o F., and maximum relative humidity of 55%.
   1. Do not store adhesives with materials that have a high capacity to absorb VOC emissions (i.e., materials which are woven, fibrous or porous in nature, such as acoustical ceilings, carpets, textiles, etc.).
   2. Do not store adhesives in occupied spaces.

1.08 PROJECT CONDITIONS

A. Provide and maintain a constant temperature and humidity before, during and after installation as required to maintain optimum moisture content of installed materials.

B. Field Measurements: Where cabinets are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
   1. Locate concealed framing, blocking, and reinforcements that support cabinets by field measurements before being enclosed, and indicate measurements on Shop Drawings.

C. Established Dimensions: Where cabinets are indicated to fit to other construction, establish dimensions for areas where cabinets are to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.09 COORDINATION

1. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that cabinets can be supported and installed as indicated.

PART 2 PRODUCTS

2.01 MATERIALS

A. General: Provide materials that comply with Project Sustainable Design Requirements and Low Emitting Material goals.

B. Lumber
   1. Provide lumber surfaced four sides (S4S) and worked to profiles and patterns shown. Nominal sizes are as shown, except where detailed dimensions are indicated.
   2. Moisture Content: Provide materials kiln-dried to maximum moisture content of 6% complying with AWI Standards, Section 100-G-3.
   3. Softwood Lumber: Comply with PS-20, "American Softwood Lumber Standard," and with applicable rules of grading and inspection agency for species indicated.

a. Western Red Cedar, Ponderosa Pine, White Pine: Western Lumber Grading Rules, published by Western Wood Products Association (WWPA), or Standard Grading Rules for West Coast Lumber, No. 16, published by West Coast Lumber Inspection Bureau (WCLIB).

4. Species: Fabricator's option.

C. Hardwood Lumber: In accordance with AWI 300, "Custom" Grade, and AWI 100, Grade I, except no checks will be allowable on visible surfaces. Well seasoned and kiln dried. Moisture content at time of fabrication shall not exceed 6%.
1. Species and Cut: As indicated on casework details.
2. Species and Cut
a. [Rift sawn] [Quarter sawn] [Plain sliced] [white oak] [red].
b. Plain sawn hard maple [natural] [select white].

D. Softwood Plywood: Thickness as indicated. Formaldehyde free.
1. Concealed Use: APA-BB-EXPOSURE I, with exterior glue (Plyform).
2. Comply with PS-1, "Construction and Industrial Plywood".

E. Hardwood Plywood: "Custom" Grade, in accordance with AWI 200, Grade I (one-side or two side as required). MDF fiberboard core typical except veneer core permitted for thickness less than 1/2". Thickness as indicated. Formaldehyde free.
1. Conform to PS-51.
2. Species and cut to match hardwood finish lumber.
3. Species and Cut: As indicated on casework details.

F. Particle Board (Substrate for Laminate Surfaces): High density industrial grade with a minimum density of 45 pounds per cubic foot and a moisture content between 12% maximum and 8% minimum, meeting or exceeding ANSI A208.1 grade M-2 minimum or ASTM D1037; formaldehyde-free. ASTM E84, Class A.
1. ARAUCO Vesta FR Particleboard
2. SIERRAPINE Encore FR
3. PANEL SOURCE INTERNATIONAL Pyroblock Platinum Particleboard

G. Medium Density Fiberboard (MDF): Thickness as specified unless otherwise indicated on Drawings. Moisture content between 12% maximum and 7% minimum . Formaldehyde free. Meets ANSI A208.2 and the following minimum standards:
1. Internal Bond: 90 psi.
2. Modulus of Rupture: 2,500 psi.
3. Screw Holding Power: 325 pounds.
4. Density: Minimum 40 pounds per cubic foot.
5. Fire Rating: ASTM E84 Class A
a. Smoke Developed: 95
b. Flame Spread: 15
6. Manufacturers
a. ARAUCO Vesta FR MDF
b. ROSEBURG FOREST PRODUCTS Medite FR
c. PANEL SOURCE INTERNATIONAL Pyroblock Platinum MDF

~~Thermoset Decorative Overlay: Particle board or MDF with surface of thermally fused, melamine impregnated decorative paper complying with Laminating Materials Association (LMA) SAT-1 and NEMA LD 3, Grade VGL. Formaldehyde free.~~

~~Plastic Laminate: Conform to the requirements of the National Electrical Manufacturer's Association (NEMA) Publication Number LD-3. Colors, patterns and finishes as indicated.~~

~~General Purpose Grade: 0.05 inches thick.~~
~~Backing Sheet Grade: 0.02 inches thick.~~
~~Post-Forming Grade: 0.042 inches thick.~~
~~Cabinet Liner: 0.02 inches thick.~~

Provide solid color type where indicated on drawings.
Fill and seal plastic laminate joints with Seamfil by KAMPEL ENTERPRISES, INC. or equal. Colors to match plastic laminate.
Manufacturer and Color: As indicated
Other Acceptable Manufacturers: Solid surface manufactured by the following companies are acceptable providing they meet the requirements specified herein and the colors and pattern are an acceptable match as determined by the Architect.
FORMICA
PIONITE
NEVAMAR
WILSONART.
LAMINART

Hardware Items: All exposed hardware to be satin stainless steel [satin brass] [satin chrome] [polished chrome] [brushed nickel] finish.

Drawer Slides: Self-closing, side mounting type with nylon tire, steel ball-bearing rollers. Manufactured by BLUM, GRASS, AMEROCK, KNAPE & VOGT; ACCURIDE. Load capacity as follows:
75 pounds: Drawers up to 3-1/2 inches deep: Similar to ACCURIDE Series 2132.
100 pounds: Drawers up to 8 inches deep: Similar to ACCURIDE Series 2832.
150 pounds: Drawers over 8 inches deep, all file drawers: Similar to ACCURIDE Series 4034.
Drawer and Door locks: 5-pin tumbler, dead bolt. KENSTAN; BEST; COMPX NATIONAL; CORBIN. Provide 2 keys per cylinder.
Concealed Hinges: European style, self-closing, type as required for construction. HAFELE; GRASS; PRAMETE; BLUM.
Continuous Hinge: 780 HD Roton Hinge by HAGER. Aluminum with finish as selected by Architect.]
Continuous Hinge: Piano type.]
Drawer and Door Pulls: Wire pull, 5/16" diameter x 3-1/3" long x 1-5/16" extension. STANLEY, GRASS, BLUM, HAFELE.
Drawer and Door Pulls: As indicated.]
Adjustable Cabinet Shelf Supports – Spoon Type: 5mm; nickel plated.
Adjustable Cabinet Shelf Supports – Clip Type: KNAPE & VOGT steel nickel plated.
Standards: KV #255 NP for dado installation.
Clips: KV #256 NP.]
Surface Mount Shelf Supports: KNAPE & VOGT (KV); NEWTECH HARDWARE; SUGATSUNE AMERICA, steel cadmium plated heavy duty double slotted supports.
Standards: Equivalent to KV #85; unless otherwise indicated 48 inches high, maximum 30 inch spacing.
Brackets: Equivalent to KV #185; unless otherwise indicated, 3 per standard, for 12 inch shelf.
Glass Shelf Supports: KNAPE & VOGT (KV); NEWTECH HARDWARE; SUGATSUNE AMERICA, black painted finish standard duty single slot supports.
Standards: KV #80; space as indicated.
Brackets: KV #180; space as indicated.
Catches: Magnetic, STANLEY #45 or equal by NATIONAL LOCK or EPCO.
Sliding Glass Door Track Assembly: KNAPE & VOGT #992 ZC. Consists of Upper Channel (993), Shoe (995), Ball Bearing Carrier (997), and Lower Track (999).
Sliding Glass Cabinet Door Locks: KNAPE & VOGT #963 CHR.
Coat Rods: 1-1/16" o.d. chrome plated steel with escutcheons; provide for clear span as follows:
4 feet: 20 gage.
Over 4 feet to 7 feet: KNAPE & VOGT #770, wall thickness 0.12".

~~Over 7 feet: Provide suitable intermediate support.~~
~~Grommets: High impact ABS cable hole cover, with spring closure or slide closure in top. Color as selected by Architect. Refer to Drawings for locations and sizes. Manufactured by DOUG MOCKETT, BAINBRIDGE MANUFACTURING or US FUTABA.~~
~~Miscellaneous Items~~
~~CPU holder by COMPUTER COMFORTS, INC. #SEC-RACK, locking CPU Holder or equal~~
~~Flat screen garage by KI or equal~~
~~Pencil drawer by HAWORTH #PPD-18 or equal by KNOLL or ALLSTEEL.~~
~~Adjustable keyboard tray by HAWORTH #AKPM-21-SI or equal by KNOLL or ALLSTEEL.~~
~~Security lock for computers to be BELKIN Notebook, #918583/F8E550-CMK.~~
~~Stand-Off Brackets: 1" diameter stainless steel, brushed finish. Similar to 3FORM Point Support or equal by DOUG MOCKETT. ½" deep cap; barrel length as indicated.~~
~~Additional Items: As indicated on the casework details.~~

H. Nails
1. Provide steel nails with diamond point for soft woods and blunt point for hardwoods.
2. Interior Work - Finishing Nails: 6d for 3/4" material; 9d or 10d for 5/4" material; and 12d for 1-1/2" material.

I. Adhesive: Low-VOC, FS MMM-A-125C, Type II, water- and mold-resistant; complying with required VOC regulations.

~~Solid Surface Material: 1/2" or 3/4" inch thick sheets. Changed mfr 2/16/2015~~
~~Provide thicknesses as indicated on the drawings.~~
~~Surface burning characteristics in accordance with ASTM E 84: Class I or A, and as follows:~~
~~Flame spread: <25.~~
~~Smoke developed: <25.~~
~~Joints: Provide watertight, fused joints as recommended by manufacturer.~~
~~Edge Treatment: As detailed on drawings. Ease all exposed edges not otherwise detailed. Make field cut-outs as required to install plumbing items and toilet accessories. See Division 22 and Section 10 28 13.~~
~~Manufacturer and Color: As indicated~~
~~Other Acceptable Manufacturers: Solid surface manufactured by the following companies are acceptable providing they meet the requirements specified herein and the patterns and colors are an acceptable match as determined by the Architect.~~
~~DU PONT Corian~~
~~FORMICA~~
~~WILSONART~~

J. Quartz Composition Material: Non porous, scratch and high temperature resistant crushed quartz composition.
1. Thicknesses: As indicated.
2. Flexural properties: ASTM D 790, ASTM C 880
3. Compression strength: ASTM C 170
4. Certified food contact: NSF/ANSI 51 Certified.
5. Surface burning characteristics - ASTM E 84: Class I or A, and as follows:
   a. Flame spread: <25.
   b. Smoke developed: <25.
6. Joints: Provide watertight color matched, fused joints as recommended by manufacturer.
7. Edge Treatment: As detailed on drawings. Ease all exposed edges not otherwise detailed.
8. Manufacturer and Color: As indicated

9. Other Acceptable Manufacturers: Solid surface manufactured by the following companies are acceptable providing they meet the requirements specified herein and the patterns and colors are an acceptable match as determined by the Architect.
    a. DU PONT Corian
    b. CAMBRIA
    c. CAESERSTONE
    d. LG VIATERA

~~Glass~~

~~For Doors: Clear float glass, ASTM C1036, Type I, Class 1, quality 93, 1/4" thick unless noted otherwise.~~

~~For Doors: Clear tempered float glass, ASTM C1048, Condition A, Type I, Class 1, quality 93. Kind FT, exposed edges seamed, 1/4 inch thick unless noted otherwise.]~~

~~For Shelves: Clear tempered float glass, ASTM C1048, Condition A, Style I, Type I, quality 93, Class 1, seamed at edges before tempering, 1/4" thick unless noted otherwise.~~

~~For Countertops: Decorative laminate safety glass: ASTM C1172, standard application for laminated architectural flat glass. 1" Cracked Glass with holographic Jewels as supplied by SPECIALTY ARCHITECTURAL PRODUCTS Mr. Igor Beaufils, (419) 450-5051.~~

~~Edges: Monolithically polished.~~

~~Reference: ASTM C1036, Type 1-transparent, quality Q3-glazing select quality.~~

~~Plastic Laminate - Chemical Resistant Type: Conform to the requirements of the National Electrical Manufacturer's Association (NEMA) Publication Number LD-3, Type GP-HGL. Colors, patterns and finishes shall be as indicated.~~

~~Resistance to reagents: Test with five 0.25 mil drops remaining on surface for 16 hours followed by washing off with tap water, then cleaned with liquid soap and water, dried with soft cotton cloth and then cleaned with naphtha.~~

~~No change in color, surface texture, and original protectability remaining from test results of following reagents: 98% Acetic Acid, Butyl Alcohol, Acetone, 90% Formic Acid, Benzine, Chloroform, 28% Ammonium Hydroxide, Xylene, Carbon Tetrachloride, Zinc Chloride (Sat.), Toluene, Cresol, Sodium Carbonate (Sat.), Gasoline, Ether, Calcium Hypochlorite (Sat.), Kerosene, Cottonseed Oil, Sodium Chloride (Sat.), Mineral Oil, 40% Formaldehyde, Methyl Alcohol, Ethyl Acetate, Trichlorethylene, Ethyl Alcohol, Amyl Acetate, Monochlorobenzine~~

~~Superficial effects only: Slight color change, spot, or residue only with original protectability remaining from test results of following reagents: 77% Sulfuric Acid, 37% Hydrochloric Acid, 85% Phenol, 33% Sulfuric Acid, 20% Nitric Acid, Furfural, 85% Phosphoric Acid, 30% Nitric Acid, Dioxane~~

~~Acrylic Panels: Laminated unfilled acrylic [with embedding material].~~

~~Manufacturers: LUMICOR, 3 FORM INC., VERITAS.~~

~~Color and Patterns: As indicated on the drawings.~~

~~Adhesives and Sealants: As recommended by manufacturer. Conform to adhesive requirements specified herein.~~

~~Performance Properties~~

~~Tensile Strength – ASTM D638: 10,000 psi.~~

~~Flexural Strength – ASTM D790: 14,600 psi.~~

~~Abrasion Resistance – ASTM D1044~~

~~10 Cycles: Haze 15%~~

~~200 Cycles: Haze 50%~~

~~Hardness (Rockwell) – ASTM D785: M-93.~~

~~Tensile Impact Strength – ASTM D1822: 20 ft. lbs./in2.~~

~~Thickness: As detailed on the drawings.~~

~~Acrylic Panel Framing and Support Shapes: Extruded aluminum; powder coat finish; colors indicated. "Versa" and "Frame" by 3 FORM INC. or similar systems by other listed~~

~~acrylic panel manufacturers. Provide all fittings, closures and hardware for complete assemblies as indicated on drawings.~~

~~Tackable Wallboard~~

~~Description: ½" thick 7 pcf fiberboard with fabric facing.~~

~~Fabric: Fabric is based on various manufacturers as indicated on the drawings. Fabric manufactured by other manufacturers will be considered if materials meet the requirements of the Basis of Design and the color and style are acceptable matches as approved by the Architect.~~

~~Locations: Where indicated on casework drawings.~~

~~Mounting: Adhesive mount to substrate.~~

~~Slatwall Panels: T-Grooved wood composite 3/4" (19mm) thick panels, pre-engineered and machined for use with groove inserts and retail display hardware. Provide aluminum trim and groove treatment.~~

~~High Pressure Laminate adhered to ANSI A208.2, industrial-grade MDF substrate and having a balancing backer sheet. Color as selected by Architect.~~

~~Attachment System: Direct attachment with concealed clips, for installation direct to studs or solid substrate.~~

~~Wire Supported Glass Shelves: Provide complete system consisting of support wire, fittings and glass shelves.~~

~~Wire: Stainless steel stranded wire; 3mm diameter.~~

~~Fittings: Stainless steel.~~

~~Wire termination fittings; profile as indicated on drawings. Sized to fit 3mm diameter wire.~~

~~Shelf Supports: JAKOB Wire Rope Swivel Cone with Disk, Swaged; sized to fit wire.~~

~~Glass Shelves: As specified herein, except ¼" thick~~

~~Manufacturers: JAKOB Inox Line or equal by LOOS AND COMPANY, or DÉCOR CABLE.~~

~~Sculptured Panels~~

~~Panel Description: 32 by 32 by 1 inch maximum profile relief, smooth surface solid mineral composite panel containing no retardants, accelerators, release agents, or plastics.~~

~~Manufacturer and Pattern: MODULAR ARTS, INC. (206-788-4210) "Swim" horizontal application.~~

2.02 FABRICATION

A. General: Except as specified hereinafter, fabricate all work in accordance with AWI quality standards as specified. Work not specified with a level of quality shall be not less than "Custom" quality per AWI. All particle board panels to be balanced construction.

~~Custom Casework~~

~~Quality Standard: Custom Grade per AWI Section 400 and Division 400B.~~

~~Design and Materials: As detailed.]~~

~~Custom Casework~~

~~Quality Standard: Custom Grade per AWI Section 400.~~

~~"Flush Overlay" design as shown in AWI Architectural Casework Details.~~

~~Core Materials~~

~~Partical Board: Typical for plastic laminated finish materials.~~

~~Plywood Core: Typical for wood veneered surfaces.~~

~~Solid Hardwood: Typical for all drawer construction, except drawer faces.~~

~~Hardboard or Luan Plywood: Drawer bottoms.~~

~~Plastic Laminate Facing~~

~~All exposed surfaces: Plastic laminate, general purpose grade. Include on exposed face and edges of all cabinets except where detailed otherwise on the drawings.~~

~~Apply to all edges of doors and drawer fronts. Doors shall have laminate on both faces. Cabinet elements (tops, counters, face panels, end panels, rails, etc.) that are~~

finished with laminate on the exposed surfaces shall have laminate balancing sheets on the concealed or semi-concealed faces.

Back Panels: Standard 1/4" prefinished hardboard. Install in housed joints in surrounding panels.

A vinyl catalyzed factory finish (AWI Finish System No. 4) shall be applied to all semi-concealed surfaces that do not have a pressure laminate finish or a balancing sheet finish. This includes drawer interior and drawer sides, ends, edges and adjustable semi-concealed shelving.

At Contractor's option, the use of .025" thick cabinet Liner Grade laminate and .030" thick Backing sheet grade laminate may be used in lieu of AWI Finish System No. 4.

All casework material in 3/4" thick, excluding facing material thickness, unless otherwise detailed, required for stability, or doors in excess of 48" in any dimension. Drawer sides to be 1/2" thick; front and back 3/4"; bottom 1/4" thick.

Adjustable Shelves: Install supports at each end of all shelves and intermediate supports at all shelves over 30".

Design

Configuration of casework is indicated on drawings.

Detailing and design required to provide rigid, solid and structurally adequate casework is the responsibility of the fabricator; all within parameters of AWI specifications and as approved by the Architect.

The following conditions require special attention:

Casework exceeding 42" in width between supports.

Sink and/or equipment cutouts and supports.

Countertops exceeding 24" unsupported.

Wall and Ceiling Mounted Casework: Provide integral framing in casework of size, strength, and in locations which allow unit to be screw attached to proper substrate and remain rigidly in place.

Plastic Laminate Countertops and Window Stools

Quality Standard: Custom Grade per AWI Section 400.

Top Core: Construct tops of 3/4" thick particle board core typical; provide exterior grade plywood (Plyform) at counters with sinks (and associated splashes) and other locations where indicated on drawings.

Where double layers indicated, glue together to form monolithic 1-1/2" thick panel.

Splashes: Provide with minimum 1/4" scribe typical.

Integral coved back splash with permanently attached straight side splash coped into backsplash.

Provide straight splashes where shown; permanently attached to top.

Seal: Prior to permanent attachment of straight splashes to top, seal all joints by setting in continuous bead of clear silicone sealant.

Exposed Edges: Build exposed edges to 1-1/2" thick at overhang by attaching continuous strip of core material to bottom side of top.

Joints in core, if required, to be fitted with mechanical panel fasteners; spacing not to exceed 12" apart nor more than 3" from outside corners.

Finishes: Finish tops, splashes and edges with plastic laminate as follows:

General purpose grade [Solid color type] [Post forming grade]

Balance underside of tops with backing sheets, 0.020".

Finish bottom of all overhangs with laminate.

Custom Edges: Finish as indicated on drawings.

Edges: Except where cabinet design requires matching laminate edge, provide 3mm PVC on Front & Back Edges, 1mm PVC on Side Edges.

Provide counter supports at 36” maximum.

B. Solid Surface and Quartz Surface Material Countertops and Components: Fabricate to profiles, sizes and edge conditions indicated on drawings and as directed by manufacturers requirements.
   1. Solid Surface: Back and side splashes, where indicated, to be fused to top to ensure watertight joint.
   2. Fabricate with openings and mortises precut, where possible to receive fixtures, accessories and other similar items of work.
   3. Ease edges as indicated on the drawings.
   4. Fabricate components in shop to greatest extent practical to sizes and shapes indicated, in accordance with approved shop drawings and solid surface manufacturer requirements.
   5. Where countertops do not have a continuous substrate, locate and provide closure strips to prevent openings from countertop underside to top of support casework.
   6. Where joint design intent indicated is to be seamless, provide manufacturers recommended adhesive to create inconspicuous, nonporous joints, with chemical bond.
   7. Provide counter supports at 42” maximum or as recommended by manufacturer.

~~Adjustable Shelving – Plastic Laminate Finish: Fabricate to details indicated; conform to requirements for countertops specified herein.~~

~~Fixed Shelving and Coat Rod – Plastic Laminate Finish: Fabricate to details indicated; conform to requirements for countertops specified herein.~~

2.03 SHOP FINISHING

A. Finish architectural woodwork at fabrication shop. Defer only final touchup, cleaning, and polishing until after installation.

B. Backpriming: Apply one coat of sealer or primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to back of paneling.

C. Transparent Finish: Comply with requirements indicated below for grade, finish system, staining, and sheen, with sheen measured on 60-degree gloss meter per ASTM D 523:
   1. Grade: Premium.
   2. AWI Finish System: TR-4, conversion varnish.
   3. Stain Colors: As indicated on drawings; Final stain colors as selected by Archnitect to match approved samples.
   4. Wash Coat for Stained Finish: Apply a vinyl wash coat to woodwork made from closed-grain wood before staining and finishing.
   5. Sheen: Semigloss, 55-75 gloss units.

PART 3 EXECUTION

3.01 PREPARATION

A. Condition architectural woodwork materials, items and products to average prevailing humidity conditions in installation areas before installing.

B. Install blocking and anchoring devices built into substrates for anchorage of architectural woodwork.

C. Deliver inserts and anchoring devices to be built into substrates well in advance of time substrates are to be built.

D. Before installing woodwork, examine shop-fabricated work for completion and back priming.

E. Ventilation for Adhesives: Comply, at a minimum, with the adhesive manufacturers’ recommendations for space ventilation during and after installation. Maintain the following ventilation conditions during the adhesive curing period or for 72 hours after installation (whichever is longer): 1) supply 100% outside air 24 hours a day; 2) supply airflow at a rate of 6 air changes per hour, when outside air temperatures are between 55o F and 85o F and humidity is between 30% and 60%; and 3) supply airflow at a rate of 1.5 air changes per hour, when outside air conditions are not within the range stipulated in the previous item 2.

3.02 INSTALLATION

A. Quality: Comply with AWI Section 1700.

B. Install woodwork materials and products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops, window stools and shelves), and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.

C. Scribe and cut work to fit adjoining work and refinish cut surfaces or repair damaged finish at cuts.

D. Install countertops level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.
   1. Solid Surface Type Countertops: Form joints using tinted adhesive as recommended by top manufacturer.

E. Casework: Install without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. Complete the installation of hardware and accessory items as indicated.

F. Anchor woodwork to anchors or blocking built-in or directly attached to substrates. Secure to grounds, stripping and blocking with countersunk concealed fasteners and blind nailing as required for a complete installation. Use fine finishing nail for exposed nailings, countersunk and filled flush with woodwork.

G. Plastic Laminate Wall Covering: Install with adhesive as recommended by plastic laminate manufacturer.

3.03 CLEANING AND PROTECTION

A. Repair damaged and defective millwork to eliminate functional and visual defects. Where not possible to repair properly, replace millwork as directed by the Architect.
   1. Chipped, scratched or patched plastic laminate will not be accepted and must be replaced.

B. Clean hardware, lubricate and make final adjustments for proper operation.

C. Protect installed work during remaining construction operations.

D. Clean woodwork on exposed and semi-exposed surfaces. Touch-up shop applied finishes to restore damaged or soiled areas.

E. Cover completed casework with 4-mil polyethylene film protective enclosure, applied in a manner that will allow easy removal and without damage to woodwork or adjoining work. Remove cover immediately before the time of final acceptance.

END OF SECTION 06 40 00

This page intentionally left blank

SECTION 07 31 13
ROOFING SHINGLES

PART 1 GENERAL

1.01 WORK INCLUDED

A. Work of this Section includes roofing shingles, felt underlayment, eave protection underlayment, ridge vents and miscellaneous fasteners.

1.02 RELATED SECTIONS

A. Flashing and Sheet Metal: Section 07 62 00.

1.03 REFERENCE STANDARDS

A. ASTM B749 - Standard Specification for Lead and Lead Alloy Strip, Sheet, and Plate Products; 2020.

B. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2021.

C. ASTM D3018/D3018M - Standard Specification for Class A Asphalt Shingles Surfaced with Mineral Granules; 2022.

D. ASTM D3161/D3161M - Standard Test Method for Wind Resistance of Steep Slope Roofing Products (Fan-Induced Method); 2020.

E. ASTM D3462/D3462M - Standard Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules; 2023.

F. ASTM D4586/D4586M - Standard Specification for Asphalt Roof Cement, Asbestos-Free; 2007 (Reapproved 2018).

G. ASTM D4869/D4869M - Standard Specification for Asphalt-Saturated Organic Felt Underlayment Used in Steep Slope Roofing; 2016a (Reapproved 2021).

H. ASTM E96/E96M - Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials; 2023.

I. ASTM E108 - Standard Test Methods for Fire Tests of Roof Coverings; 2020a.

J. ASTM F1667/F1667M - Standard Specification for Driven Fasteners: Nails, Spikes, and Staples; 2021a.

K. ICC (IBC) - International Building Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

L. UL 790 - Standard for Standard Test Methods for Fire Tests of Roof Coverings; Current Edition, Including All Revisions.

M. UL 2218 - Standard for Impact Resistance of Prepared Roof Covering Materials; Current Edition, Including All Revisions.

N. ICC (IBC) AC 48 - Acceptance Criteria For Roof Underlayment For Use In Severe Climate Areas.

O. ICC (IBC) AC 207 - Acceptance Criteria for Polypropylene Roof Underlayments.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1.05 SUBMITTALS

A. Product Data: Provide manufacturer's printed product information indicating material characteristics, performance criteria, and product limitations.

B. Manufacturer's Installation Instructions: Provide published instructions that indicate preparation required and installation procedures.

C. Certificate of Compliance: Provide Certificate of Compliance from an independent laboratory indicating that the asphalt fiberglass shingles made in normal production meet or exceed the requirements of the following:
   1. ASTM E108 / UL 790 Class A Fire Resistance.
   2. ASTM D3161/D3161M / UL 997 Type I Wind Resistance.
   3. ASTM D3462/D3462M.

D. Shop Drawings: Indicate specially configured metal flashing, jointing methods and locations, fastening methods and locations, and installation details, as required by project conditions indicated.

E. Samples: For each exposed product and for each color and texture specified.
   1. Asphalt Shingles: Full size.
   2. Ridge and Hip Cap Shingles: Full size.
   3. Ridge Vent: 12-inch long Sample.
   4. Exposed Valley Lining: 12 inches (304.8 mm) square.

1.06 STORAGE AND HANDLING

A. Store all materials off ground on wooden pallets.

B. Stand felt rolls on end for storage.

C. Use care not to damage products in handling.

1.07 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace roofing shingles that fail within specified warranty period. Failures include, but are not limited to, the following:
   1. Manufacturing defects.
   2. Material Warranty Period: 40 years from date of Substantial Completion, prorated, with first five years nonprorated.
   3. Wind-Speed Warranty Period: Roofing shingles will resist blow-off or damage caused by wind speeds of up to 90 mph for five years from date of Substantial Completion.
   4. Algae-Resistance Warranty Period: Roofing shingles will not discolor for 10 years from date of Substantial Completion.
   5. Workmanship Warranty Period: Two years from date of Substantial Completion.

B. Roofing Installer's Warranty: On warranty form at end of this Section, signed by Installer, in which Installer agrees to repair or replace components of shingle roofing that fail in materials or workmanship within specified warranty period.
   1. Warranty Period: Two years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 ASPHALT GLASS FIBER ROOFING SHINGLES

A. Type: Laminated, multi-ply overlay construction, glass-fiber reinforced, mineral-granule surfaced, and self-sealing.
   1. Weight per Square: 425

B. Conformance: ASTM D3018/D3018M Type I - self-sealing; UL Certification of ASTM D3462/D3462M; UL 997 Wind Resistance, Impact Resistance: UL 2218, Class 4.
   1. Fire Resistance: Class A according to ASTM E108 or UL 790.

C. Color: As selected by Architect.
   1. Algae Resistance: Granules resist algae discoloration.

D. Warranty: 40 year minimum.

E. Hip and Ridge Shingles: Manufacturer's standard units to match asphalt shingles.

~~Style and Manufacturer: Slateline by GAF/ELK with TIMBERTEX hip and ridge. Products by CERTAINTEED, TAMKO, OWENS CORNING are acceptable providing they meet the requirements specified.~~

F. Style: Dimentional

G. Manufacturer: Basis of design Timberline 40 by GAF with Timbertex hip and ridge.
   1. Products by CERTAINTEED, TAMKO, OWENS CORNING are acceptable providing they meet the requirements specified.

2.02 ROOFING FELT - UNDERLAYMENT

A. Type: Asphalt-saturated felt. ASTM D4869/D4869M, Type I.

B. Weight: 15 lbs per 100 sq feet (0.10764 sq cm).

C. Size: 36 inch (914.4 mm) minimum roll width.

2.03 SELF-ADHERED UNDERLAYMENT – VAPOR PERMEABLE

A. Membrane Material: Fully adhered vapor permeable water-resistive sheet membrane consisting of multiple layers of UV stabilized spun-bonded polypropylene having the following properties:
   1. Thickness: Minimum 0.020 inches (0.51 mm).
   2. Water Vapor Permeance - ASTM E96ASTM E96/E96M Method B: 59 perms.
   3. Water Resistance tested (Ponding): AC 48, Pass, no leakage
   4. Tensile Strength tested - ASTM D1682: Pass
   5. Liquid Water Transmission - ASTM D4869/D4869M: Pass

B. Water-Resistive Flashing Membrane and Tape
   1. Self-adhered Underlayment Flashing: Self-adhered vapor permeable water-resistive sheet membrane consisting of multiple layers of UV stabilized spun-bonded polypropylene having properties equal to the primary self-adhered water resistive underlayment membrane.
   2. Tapes: UV stable, double/single sided, moisture-resistant flexible tape with adhesive backing; sizes and types as recommended by membrane manufacturer.

C. Manufacturer: Water-resistive vapor permeable roof underlayment membrane by VaproShield Slopeshield Self-Adhered (Basis of Design). Subject to compliance with the specified requirements products manufactured by GAF or SRP CANADA INC are acceptable.

2.04 SELF-ADHERED UNDERLAYMENT

A. Material: Polyethylene sheet backed rubberized asphalt membrane, 40 mils (1.016 mm) thick. Provide primer as recommended by membrane manufacturer.

B. Conformance: ASTM D1970/D1970M.

C. Warranty: Equal to shingle warranty.

D. Manufacturers: Bituthene Ice and Water Shield by W. R. GRACE; Polyken 640 Underlayment Membrane by POLYKEN TECHNOLOGIES; Polyguard Deck Guard by POLYGUARD PRODUCTS; Weather Watch by GAF; Winterguard by CERTAINTEED.

2.05 ACCESSORIES

A. Roofing Nails: ASTM F1667/F1667M; aluminum, stainless-steel, copper, or hot-dip galvanized-steel wire shingle nails, minimum 0.120-inch diameter, sharp-pointed, with a minimum 3/8-inch diameter flat head and of sufficient length to penetrate 3/4 inch (19.05 mm) into solid wood decking or extend at least 1/8 inch (3.18 mm) through OSB or plywood sheathing.
   1. Where nails are in contact with metal flashing, use nails made from same metal as flashing.
   2. Felt-Underlayment Nails: Aluminum, stainless-steel, or hot-dip galvanized-steel wire with low-profile capped heads or disc caps, 1-inch minimum diameter.

B. Roofing Cement: Asphalt roofing cement as recommended by roof product manufacturer; ASTM D4586/D4586M.

C. Vent Pipe Flashings: ASTM B749, Type L51121, at least 1/16 inch (1.59 mm) thick. Provide lead sleeve sized to slip over and turn down into pipe, soldered to skirt at slope of roof, and extending at least 4 inches (101.6 mm) from pipe onto roof.

2.06 SHINGLE RIDGE VENT

A. Vent Material: Preformed high density linear polyethylene; .08" thick with weather filter.

B. Length: Continuous along each ridge, unless otherwise indicated on drawings. Provide with connector and end plugs.

C. Color: As selected by Architect.

D. Provide end transitions as required.

E. Manufacturers: Shinglevent II by CERTAINTEED or equal by COR-A-VENT INC., GAF, LOMANCO INC., TAMKO and OWENS CORNING
   1. Net Free Area: 16 sq. inch/foot min.
   2. Roof to Wall Transition: COR-A-VENT Roof-2-Wall Vent or equal from listed manufacturers.

2.07 STATIC ROOF VENTS

A. Manufacturer: LOMANCO, AIR VENT, INC., GREENHECK, MASTER FLOW or equal.

B. Free Area: Minimum 50 square inches.

C. Description: Aluminum construction; enamel finish or mill finish. Provide with flashing flanges. Field paint, See Section 09 90 00.

D. Fasteners: Noncorrosive fasteners as recommended by manufacturer.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that roof penetrations and plumbing stacks are in place and flashed to deck surface.

B. Verify roof openings are correctly framed prior to installing work of this section.

C. Verify deck surfaces are dry and free of ridges, warps, or voids.

3.02 ROOF DECK PREPARATION

A. Follow shingle manufacturer's recommendations for acceptable roof deck materials.

B. Broom clean deck surfaces under eave protection and underlayment prior to their application.

3.03 INSTALLATION - UNDERLAYMENT

A. Place eave edge and gable edge metal flashing tight with fascia boards. Weather lap joints 2 inches (50.8 mm). Secure flange with nails spaced 8 inches (203.2 mm) on center.

B. Apply eave protection shingle underlayment in accordance with manufacturer's instructions.

C. Extend eave protection membrane minimum 24 inches (609.6 mm) up slope beyond interior face of exterior wall. (Eave width plus wall thickness and 24 inches.)
   1. In addition to eaves, apply at entire perimeter surfaces to receive asphalt shingles, including ridges, hips and rakes.

3.04 INSTALLATION - PROTECTIVE UNDERLAYMENT

A. Roof Slope Between 2:12 and 4:12: Apply one layer of self adhered underlayment over entire roof area, with ends and edges weather lapped minimum 12 inches (304.8 mm). Stagger end laps each consecutive layer.

B. Roof Slope 4:12 and Greater
   1. Roofing Felt Underlayment
      a. Apply one layer of felt underlayment horizontal over entire surface to receive asphalt shingles. Lap succeeding courses a minimum of 2 inches (50.8 mm); end laps a minimum of 4 inches (101.6 mm), and hips a minimum of 6 inches (152.4 mm).
      b. Secure felt underlayment to deck with roofing nails 1 inch (25.4 mm) in from edge and 12 inches (304.8 mm) o.c. Three rows per sheet width. Lap felt underlayment 12 inches at valleys and hips.

c. Omit felt underlayment at areas listed below to receive self-adhering underlayment. Lap felt underlayment over eave underlayment as recommended by manufacturer but not less than 2 inches (50.8 mm).

2. Self-Adhering Sheet Underlayment: Install self-adhering sheet underlayment, wrinkle free, on roof deck. Comply with environmental restrictions of underlayment manufacturer. Install membrane lapped in direction to shed water. Lap sides not less than 3-1/2 inches (89 mm). Lap ends not less than 6 inches (152.4 mm) staggered 24 inches (609.6 mm) between courses. Roll laps with roller. Cover underlayment within seven days. Provide at the following locations:
   a. Eaves: Extend from edges of eaves to a minimum of 24 inches (609.6 mm) beyond interior face of exterior wall.
   b. Rakes: Extend from edges of rake 24 inches (609.6 mm) beyond interior face of exterior wall.
   c. Valleys: Extend from lowest to highest point a minimum of 18 inches (457.2 mm) on each side.
   d. Hips: Extend 18 inches (457.2 mm) on each side.
   e. Ridges: Extend 36 inches (914.4 mm) on each side without obstructing continuous ridge vent slot.
   f. Sidewalls: Extend beyond sidewall 18 inches (457.2 mm), and return vertically against sidewall not less than 4 inches (101.6 mm).
   g. Dormers, Chimneys, Skylights, and Other Roof-Penetrating Elements: Extend beyond penetrating element 18 inches (457.2 mm), and return vertically against penetrating element a minimum of 4 inches (101.6 mm).
   h. Roof Slope Transitions: Extend 18 inches (457.2 mm) on each roof slope.

3.05 VALLEY FLASHING

A. Provide metal valley flashing installed to provide an open valley.

B. Provide flashing with the following:
   1. 1" V-crimp at flashing center running parallel with direction of valley.
   2. Edges formed with hook edge and cleated on 24" centers.
   3. Lap ends 8" in direction of water flow.
   4. Conform to SMACNA Figure 4-10.

C. See Section 07 62 00 for prefinished metal flashing material.

3.06 STATIC VENTS - INSTALLATION

A. Install where indicated on drawings in accordance with manufacturer's instructions and recommendations of roofing shingle manufacturer.

B. Coordinate with installation of substrates and roofing as required to ensure that each element of the work performs properly, and that combined elements are waterproof and weathertight.

3.07 SHINGLE - INSTALLATION

A. Use starter strip of shingle material cut on slotted end to 9" width and nail to eave with slot end up and edge overhanging eave 3/8".

B. Use shingles with 5" maximum exposure unless manufacturer recommends less.

C. Lay first course directly over starter strip with ends flush with starter strip at eaves.

D. Insure alignment by running vertical line down center of roof and laying shingles from center to rake.

E. Cutouts may break joints at either thirds or halves but system shall be consistent over entire roof.

F. Use number of nails and locations per shingle as recommended by shingle manufacturer.

G. Run a chalk line so valley will be 6" wide at top and diverge 1/8" per ft down to eaves. Neatly trim shingles to this line. Clip off shingle and glue upper inside corner of each shingle to valley with asphalt cement.

H. Ridge shingles shall be 9" x 12" cut from strip shingles or factory supplied. Apply with 5" exposure, blind nailed, and tabbed. Run ridge shingles with wind.

I. Vent pipe sleeve flange minimum width 6". Fit shingles under lower edge and over sides and upper edge.

J. Run courses true to line with slots properly placed. Leave shingles flat without wave and properly placed.

K. Clean shingles and building of soiling caused by this installation.

END OF SECTION 07 31 13

SECTION 07 46 33
VINYL SIDING

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide vinyl siding,corner board trim, window trim, and miscellaneous trim and miscellaneous trim as indicated on drawings or required for a complete installation. Types include:
   1. ~~5”~~ 4" exposed face clapboard – horizontal.
   2. Soffit - ventilated
   3. Board and batten

1.02 RELATED SECTIONS

A. Flashing: Section 076000.

1.03 REFERENCE STANDARD

A. ASTM D256 - Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics; 2023, with Editorial Revision.

B. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position; 2022.

C. ASTM D638 - Standard Test Method for Tensile Properties of Plastics; 2022.

D. ASTM D648 - Standard Test Method for Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position; 2018.

E. ASTM D696 - Standard Test Method for Coefficient of Linear Thermal Expansion of Plastics Between -30°C and 30°C with a Vitreous Silica Dilatometer; 2016.

F. ASTM D1784 - Standard Classification System and Basis for Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds; 2020.

G. ASTM D2244 - Standard Practice for Calculation of Color Tolerances and Color Differences from Instrumentally Measured Color Coordinates; 2023.

H. ASTM D2843 - Standard Test Method for Density of Smoke from the Burning or Decomposition of Plastics; 2022.

I. ASTM D3679 - Standard Specification for Rigid Poly(Vinyl Chloride) (PVC) Siding; 2021.

J. ASTM D6638 - Standard Test Method for Determining Connection Strength Between Geosynthetic Reinforcement and Segmental Concrete Units (Modular Concrete Blocks); 2018.

K. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

L. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2022.

1.04 SUBMITTALS

A. Samples: Submit minimum 9" long by full width sample of siding showing finish, pattern, color, gage and profile.

B. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

1.05 QUALITY ASSURANCE

A. Vinyl Siding Installer Qualifications: A qualified installer who employs a VSI-certified Installer on Project.

B. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and to set quality standards for fabrication and installation.

1.06 HANDLING AND STORAGE

A. Exercise care so as not to damage or deform material.

B. Stack on platforms or pallets and cover to protect from weather.

1.07 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period.Failures include, but are not limited to, the following:
   1. Structural failures including cracking, fading, and deforming.
   2. Deterioration of materials beyond normal weathering.
   3. Fading is defined as loss of color, after cleaning with product recommended by manufacturer, of more than 5 Hunter color-difference units as measured according to ASTM D2244.
   4. Warranty Period: 10 years from date of Substantial Completion.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Basis of Design: Board & Batten siding by CERTAINTEED
   1. ~~Specifications:~~ Products by ALCOA BUILDING PRODUCTS~~; CERTAINTEED~~ or ALSIDE are acceptable if accepted by Architect as equivalent after review.

2.02 SIDING, SOFFIT AND TRIM

A. Siding and Soffit - General Requirements: Polyvinyl chloride products with the following characteristics:
   1. Siding: Comply with ASTM D3679, Class 2.
   2. PVC cell classification in accordance with ASTM D1784: 13334.
   3. Coefficient of linear expansion in accordance with ASTM D696: .000029 inch (0 mm) per inch per degree F.
   4. Tensile strength when tested in accordance with ASTM D638: Minimum 7,100 pounds per square inch.
   5. Modulus of elasticity when tested in accordance with ASTM D638: Minimum 360,000 pounds per square inch, average.
   6. Izod impact, standard 1/8 inch (3.18 mm) bar when tested in accordance with ASTM D256: 3.30 foot (100.58 cm)-pounds per inch, average.
   7. Shore D Hardness: Minimum 73.
   8. Specific Gravity: Minimum 1.39.
   9. Deflection temperature when tested in accordance with ASTM D648: 170 degrees Fahrenheit (76.67 degrees Celsius), 264 pounds per square inch.
   10. Smoke density rating when tested in accordance with ASTM D2843: 48 percent, average.
   11. Horizontal flammability, when tested in accordance with ASTM D635:
      a. Burn distance: 0.79 inch (20 mm).
      b. Burn time: Less than 5 seconds.
   12. Surface burning characteristics when tested in accordance with ASTM E84: Flame spread less than 20, fuel contribution 0, smoke density 400.
   13. Fire Resistance - Siding: 1 hour, when tested in accordance with ASTM E119, with siding applied over gypsum sheathing.
   14. Flammability - Siding: Comply with requirements of UBC Std 26-9.

B. Manufacturer: Verify and match existing.
   1. Wall Thickness: 044" nominal.
   2. Profile: As indicated
   3. Finish: ~~Smooth~~ Rough Cedar.
   4. Color, Size Profile and Type:
      a. Board & Batten Vertical siding

b. 4” Clapboard Horizontal siding
c. 8” Clapboard siding
d. Color to be selected by archtiect from manufacturer's full color palate.

C. Corner Board Trim and Window Trim: Provide nominal 4” wide corner trim and window surrounds; materials per manufacturer's requirements.

D. Soffit:
1. Color, Size and Type: Match ~~existing~~ adjacent.
2. Wall Thickness: 040" nominal.
3. Ventilation: 9” of net free area.
4. Finish: ~~Smooth.~~ Rough Cedar.

2.03 ACCESSORIES

A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside

B. corner caps, and other items as recommended by siding manufacturer for building configuration.

C. Provide accessories made from same material as and matching color and texture of adjacent siding unless otherwise indicated.

D. Vinyl Accessories: Integrally colored vinyl accessories complying with ASTM D3679 except for wind-load resistance.

E. Fasteners:
1. For fastening to wood, use siding nails of sufficient length to penetrate a minimum of 1 inch (25.4 mm) into substrate.
2. For fastening to metal, use ribbed bugle-head screws of sufficient length to penetrate a minimum of 1/4 inch (6.35 mm), or three screw-threads, into substrate.
3. For fastening vinyl, use non-ferrous or coated fasteners. Where fasteners are exposed to view, use prefinished aluminum fasteners in color to match item being fastened.

PART 3 EXECUTION

3.01 INSPECTION

A. Commencement of siding installation implies acceptance of the substrate as suitable to accept siding.

3.02 INSTALLATION

A. Install vinyl siding and soffit and related accessories according to ASTM D 4756.

B. Install in accordance with the latest edition of the "Rigid Vinyl Siding Application Manual", published by the Vinyl Siding Institute of the Society of the Plastics Industry, Inc.

C. Provide "J -Blocks" at all siding areas where light fixtures, hose bibs, outlets and similar type items occur.

3.03 CLEAN UP

A. Clean all siding surfaces of dirt, grime, and other surface blemishes.

B. Remove from the site all excess material, shipping packaging, debris and etc., related to the siding work.

END OF SECTION 07 46 33

This page intentionally left blank

SECTION 08 14 00
WOOD DOORS

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide the following types of wood doors:
   1. Solid core
   2. Fire rated
   3. Stile and rail
   ~~Acoustic~~
   ~~Lead lined~~

1.02 RELATED SECTIONS

A. Hollow Metal Door Frames: Section 08 11 13.

B. Door Hardware Section 08 71 10.

~~Sustainable Design Requirements: Section 01 81 13.~~

~~VOC Limits: Section 01 81 16.~~

1.03 REFERENCE STANDARDS

A. ANSI A208.1 - American National Standard for Particleboard; 2022.

B. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

~~FS QQ-L-201F - Lead Sheet; 1965.~~

C. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025.

D. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.

E. UL 10C - Standard for Positive Pressure Fire Tests of Door Assemblies; Current Edition, Including All Revisions.

F. WDMA I.S. 1A - Interior Architectural Wood Flush Doors; 2021, with Errata (2022).

G. Architectural Wood Work Institute: AWI "Quality Standards, Guide Specification" requirements.

1.04 QUALITY ASSURANCE

A. Provide wood doors fabricated by one manufacturer to ensure uniformity in appearance and construction.

1.05 SUBMITTALS

A. Submit manufacturer's product data and installation instructions for each type of wood door required.
   1. Include details of core and edge construction.
   2. Include certification indicating compliance with specification requirements.

B. Submit Shop Drawings
   1. Indicate location and size of each door, elevation of each kind of door, details of construction, location and extent of hardware blocking and other pertinent data.
   2. Identify doors in accordance with drawing door schedule.

C. Submit sample corner section, 12" square, showing required veneer and edge construction.

D. Finish Samples
   1. Factory Finished Doors: Submit three (3) flitch samples of each species of face veneer with factory applied stain and finish as specified and indicated illustrating expected range of color and grain variation.
   2. Field Finished Doors: Submit three (3) flitch samples of each species of face veneer as specified and indicated illustrating expected range of grain variation. Samples will be used to select and approve field stain color as specified in Section 09 91 00.

E. Sustainable Design Documentation Submittals: Comply with Section 01 81 13.
   1. VOC Limits: Include documentation verifying product Low Emitting Material Building Product Disclosures and Optimization.

1.06 DELIVERY, STORAGE AND HANDLING

A. Store and protect doors in accordance with manufacturer's recommendations and WDMA.

B. Following are general guidelines. For more specific information refer to WDMA's Appendix Section “Care and Installation at Job Site.”
   1. Deliver doors in manufacturer's original unopened protective packaging or wrapper.
      a. Store doors flat and off the floor on a level surface in a dry, well-ventilated building. Do not store on edge. Protect doors from dirt, water and abuse.
      b. Do not subject interior doors to extremes in either heat or humidity. HVAC systems should be operational and balanced, providing a temperature range of 50 to 90 degrees Fahrenheit and 30% to 50% relative humidity.
      c. When handling doors, always lift and carry. Do not drag across other doors or surfaces. Handle with clean hands or gloves.
      d. Each door will be marked on top rail with opening number.

1.07 LABEL DOOR REQUIREMENTS

A. Fire Ratings Compliance: Comply with the label requirements of NFPA and applicable local codes. Fabricate doors and frames in accordance with requirements of NFPA 80 and U.L. Standards as follows:
   1. Positive Pressure Testing UL 10C

B. Ratings Certifications
   1. Provide U.L. labels permanently fastened on each door that is within the size limitations established by NFPA and U.L. for labeling.
   2. Provide anchors for U.L. labeled frames required by the authority having jurisdiction.

1.08 WARRANTY

A. Manufacturer agrees to repair or replace doors that fail in materials or workmanship within specified warranty period.
   1. Failures include, but are not limited to, the following:
      a. Warping (bow, cup, or twist) more than 1/4 inch in a 42-by-84-inch section.
      b. Telegraphing of core construction in face veneers exceeding 0.01 inch in a 3-inch span.
   2. Warranty Period for Solid-Core Exterior Doors: Two years from date of Substantial Completion.
   3. Warranty Period for Solid-Core Interior Doors: Life of installation.

PART 2 PRODUCTS

2.01 MATERIALS AND COMPONENTS

A. General: Provide materials that comply with Project Sustainable Design Requirements and Low Emitting Material goals.

B. Interior Flush Doors Solid Core: Meet or exceed WDMA I.S. 1A Industry Standard for Wood Flush Doors requirements and as specified. WDMA I.S. 1A Performance Grade – Extra Heavy Duty.
   1. Interior Flush Doors Solid Core – Non-Rated and 20 Minute Rated Fire Doors: Provide one of the following cores with hardwood veneers:
      a. Particleboard-Core: ANSI A208.1, Grade LD-1 or Grade LD-2.
      b. Blocking: Provide wood blocking in particleboard-core doors as needed to eliminate through-bolting hardware
         1) 5-inch top-rail blocking, in doors indicated to have closers.
         2) 5-inch bottom-rail blocking, in exterior doors and doors indicated to have kick, mop, or armor plates.

c. Provide doors with glued-wood-stave or structural-composite-lumber cores instead of particleboard cores for doors indicated to receive exit devices.
d. Structural Composite Lumber Core (SCLC-5) is an engineered hardwood composite sometimes referred to as LSL (Laminated Strand Lumber). The material complies with WDMA minimum performance levels for interior applications with screw holding power of 540 lbs., modulus of rupture of 6,500 psi, and density of 38 lbs per cubic foot. Formaldehyde free.

2. Interior Flush Fire Doors – Above 20 Minute Rated: FD solid core with hardwood face veneer.
   a. Rating as indicated on drawings.
   b. Provide one of the above cores or the following as required to maintain fire rating:
      1) Non-combustible mineral composite material that is necessary for higher hourly ratings per manufacturer's approval
3. Acoustic (Sound) Door: Door manufacturer's sound dampening core; STC 39 rating per ASTM E90. Provide for all doors indicated on door schedule as Sound Door or Acoustic Door.
4. Lead Lined Door: Particle board (PC-5), stave lumber (SLC-5) or structural composite lumber (SCLC-5) core with continuous lead sheets from edge to edge located in center of door.

C. Moldings: Trim louver and glass openings with recessed bead type wood moldings, species matching door face veneer species. Profiles as selected by the Architect from manufacturer's standard profiles.
1. Glass Lites in Fire Rated Doors: Manufacturer's standard wood-veneered noncombustible beads matching veneer species of door faces and approved for use in doors of fire rating indicated. Include concealed metal glazing clips where required for opening size and fire rating indicated.

D. Louvers: Where scheduled, provide sightproof, fixed, welded, inverted V-shaped blade type, formed of 20 gage cold-rolled steel blades and frames, primed painted finish. ANEMOSTAT Model CHDL-2F, NATIONAL GUARD PRODUCTS Model L-A700-BF, AIR LOUVERS INC. 600 A-1.

2.02 FABRICATION

~~Flush Doors: Fabricate doors in accordance with WDMA I.S. 1A, [Premium with Grade AA faces] [Premium with Grade A faces] [Custom with Grade A faces] Grade requirements for transparent stained finish. Formaldehyde free.~~

~~Core Construction: Bond stiles and rails to core and sand entire unit prior to assembly of face veneers.~~

~~Number of Plies: 5.~~

~~Face Veneers: Minimum 1/50" thick before sanding, plain sliced red oak hardwood.~~

~~Veneer Figure: Biological defects of grain, color and effects including but not limited to - blisters, flake, quilts, rope, burl, crotch, mottle patterns, shall not exceed approved veneer samples.~~

~~Door Thickness: 1-3/4" thick.~~

~~Adhesive: Type I, waterproof.~~

~~Edge Strips: Stile edges hardwood species matching face veneer; bonded to core; 1-1/8" minimum width after trimming. Top and bottom edges hardwood of mill option.~~

~~Match Between Veneer Leaves:~~

~~Plain Sliced Veneer: Book matched for color and grain.~~

~~Rift or Quarter Sawn Veneer: Slip match for color and grain.~~

~~Assembly of Veneer Leaves on Door Faces: Running match.~~

~~Hardware: Factory machine for mortise hardware using template provided by hardware manufacturer.~~

~~Reinforcement: Reinforce doors to receive hardware specified.~~

~~Hinge Attachment: Stiles and rails to be continuously glue bonded to the core so that screw stress is transmitted directly to the core.~~
~~Closure, Exit Device and Other Surface Mounted Hardware: Provide top rail 2-1/2" or more in width to hold closer fasteners and solid wood blocking for all other surface applied hardware.~~

A. 2 Panel Doors: paint grade finish. Formaldehyde free.
   1. Core Construction: Bond stiles and rails to core and sand entire unit prior to assembly of face veneers.
   2. Number of Plies: 5.
   3. Face Veneers: Minimum 1/50" thick before sanding.
      a. Veneer Figure: Biological defects of grain, color and effects including but not limited to - blisters, flake, quilts, rope, burl, crotch, mottle patterns, shall not exceed approved veneer samples.
   4. Door Thickness: 1-3/4" thick.
   5. Adhesive: Type I, waterproof.
   6. Reinforcement: Reinforce doors to receive hardware specified.
      a. Hinge Attachment: Stiles and rails to be continuously glue bonded to the core so that screw stress is transmitted directly to the core.
      b. Closure, Exit Device and Other Surface Mounted Hardware: Provide top rail 2-1/2" or more in width to hold closer fasteners and solid wood blocking for all other surface applied hardware.

B. Fire Rated Doors: Conform to "Flush Door" requirements specified above. Provide doors of U.L. classification indicated.
   1. Reinforcement: Reinforce doors to receive hardware specified.
      a. Surface applied hardware that is located where screws cannot penetrate the above mentioned stiles or wood rails shall be through bolted.

C. Stile and Rail Wood Doors: Fabricate doors in accordance with WDMA "Premium Grade" requirements for transparent stained finish. Formaldehyde free.
   1. Stiles: Hardwood laminated stave core.
   2. Rails: Solid hardwood core.
   3. Joints: Hardwood doweled and glued.
   4. Face Veneers: Minimum 1/50" thick before sanding, plain sliced Grade A red oak hardwood. Book matched.
   5. Door Thickness: 1-3/4" thick.
   6. Adhesive: Type I, waterproof.
   7. Edge Strips: Stile edges hardwood species matching face veneer; bonded to core; 1-1/8" minimum width after trimming. Top and bottom edges hardwood of mill option.
   8. Hardware: Factory machine for mortise hardware using template provided by hardware manufacturer.
   9. Panels: Mitered rim; tongue and grooved; hardwood veneer.
   10. Moldings: Trim glass openings with recessed bead type wood moldings, species matching door face veneer species. Profile as selected by Architect.

   ~~Lead Lined Doors: Conform to applicable requirements of "Flush Door" specified herein and the following:~~
      ~~Type: Premium quality; solid core (stave lumber), lead under veneer design. Provide two continuous lead sheets for a total thickness of 1/8".]~~
      ~~Lead: FS QQ-L-201F, Grade C; 99.97% pure.~~
      ~~Adhesive: Type recommended by door manufacturer to bond core, lead, cross banding and veneer in one application.~~

D. Factory Finish

1. General: Comply with referenced quality standard for factory finishing. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.
    a. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be omitted on top and bottom edges, edges of cutouts, and mortises.
2. Finish: WDMA TR-4 conversion varnish.
3. Staining: Color as selected by Architect.
4. Effect: Filled finish.
5. Sheen: Satin.

E. Individually package doors at factory with manufacturer's standard packaging or wrapping for delivery to job site.

F. Manufacturers: MASONITE; EGGERS - VT INDUSTRIES, OSHKOSH; LAMBTON DOORS.
1. Stile and Rail Doors: Above listed manufacturers.

PART 3 EXECUTION

3.01 INSPECTION

A. Examine substances, rough openings and installation conditions. Do not proceed with wood door installation until unsatisfactory conditions have been corrected.

B. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

3.02 PREPARATION

A. Verify metal frame dimensions and hardware mortises in metal frames with metal frame manufacturer.

3.03 INSTALLATION

A. Condition doors to average prevailing humidity in installation area before hanging.

B. Install doors in accordance with manufacturer's installation instructions. Job fit and prepare doors to receive hardware. Bevel 1/8" in 2" at strike edges for clearance in arc of swing. Seal cut surfaces, tops, bottoms and edges with sanding sealer after fitting and machining.

C. Hang doors straight, plumb and square securely anchored into position. Adjust doors to provide uniform clearance and to contact stops uniformly. Remove and replace doors that are warped, bowed or otherwise damaged and cannot be properly fit to the opening.

D. Install fire-rated doors in corresponding fire-rated frames in accordance with requirements of NFPA No. 80.

3.04 PROTECTION

A. Protect installed doors from soiling, staining and damage until final acceptance.

B. Repair or replace doors damaged beyond acceptable repair as directed by the Architect.

END OF SECTION 08 14 00

This page intentionally left blank

SECTION 08 36 13
SECTIONAL DOORS

PART 1 GENERAL

1.01 WORK INCLUDED

A. Section includes:
   1. Steel sectional overhead doors, motor operated.
   2. Operating hardware, tracks and supports.
   3. Electric operators and controls.
      a. Wireless remote controls.

1.02 RELATED SECTIONS

A. Electrical: Division 26.

1.03 REFERENCE STANDARDS

A. ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.

B. DASMA 102 - American National Standard Specifications for Sectional Doors; 2018.

C. NFPA 70 - National Electrical Code; Most Recent Edition Adopted by Authority Having Jurisdiction, Including All Applicable Amendments and Supplements.

1.04 SYSTEM DESCRIPTION

A. Design Requirements
   1. Furnish sectional overhead doors that comply with ANSI/DASMA 102.
   2. Wind Loading: Design and reinforce sectional overhead doors to comply with ANSI/DASMA 102 criteria for wind loading.
   3. Insulated units.
   4. Full vision panels where indicated.

1.05 SUBMITTALS

A. Shop Drawings: Fully dimensioned and detailed drawings showing complete installation with components, materials and finishes, and accessories indicated.

B. Samples for Color Selection: Submit samples of door manufacturer's full range of metal finish colors on 4" x 6" piece of standard base metal.

C. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Preparation instructions and recommendations.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.

D. Quality Control Submittals
   1. Certificates: For review and approval, submit manufacturer's written certificates indicating that doors comply with specified design criteria of ANSI/DASMA 102.
   2. Installer Qualifications: For review and approval, submit installer's written statement of compliance with installation experience requirement.

1.06 QUALITY ASSURANCE

A. Provide each sectional overhead door as a complete unit produced by one manufacturer, including frames, sections, brackets, guides, tracks, counterbalance mechanisms, motor operator, controls, hardware and installation accessories to suit openings and allowable headroom.

B. Provide sectional overhead door units by one manufacturer for entire project.

C. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.

D. Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.

E. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

1.07 WARRANTY

A. Provide manufacturer's standard 2-year product warranty covering door sections.

B. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
   1. Warranty Period: 10 years.

PART 2 PRODUCTS

2.01 STEEL DOOR SECTIONS

A. Construct door sections including face sheets and frames from zinc-coated (galvanized), cold-rolled, commercial steel (CS) sheet, complying with ASTM A653/A653M, minimum G60 coating designation.

B. Door Assembly: Metal/foam/metal sandwich panel construction, with PVC thermal break and ship-lap design, and as follows:
   1. Minimum Base-Metal (Uncoated) Thickness for Exterior Section Faces: 0.016 inches (0.41 mm), hot-dipped galvanized.
   2. Exterior-Section Face: Ribbed, textured.
   3. End Stiles: 16 gauge.
   4. Panel Thickness: 2 inches (50.8 mm).

C. Reinforce sections with continuous horizontal and diagonal reinforcement, as required to stiffen door and for wind loading. Provide galvanized steel bars, struts, trusses, or strip steel, formed to depth and bolted or welded in place.

D. Provide reinforcement for hardware attachment.

E. Fabricate sections so finished door assembly is rigid and aligned, with tight hairline joints and free of warp, twist, and deformation.

F. Door Finish:
   1. Baked-Enamel or Powder-Coated Finish: Color and gloss as selected by Architect from manufacturer's full range .
   2. Finish of Interior Facing Material: Finish as selected by Architect from manufacturer's full range .

G. Manufacturers: Subject to compliance with requirements, provide doors by OVERHEAD DOOR COMPANY, HAAS, CLOPAY; COOKSON, WAYNE DALTON or ARM-R-LITE.

2.02 COMPONENTS

A. Tracks
   1. Provide manufacturer's standard galvanized steel track system, sized for door size and weight, and designed for clearances shown.
   2. Provide complete track assembly including brackets, bracing and reinforcing for rigid support of ball-bearing roller guides.
   3. Slot vertical sections of track at 2" on center for door drop safety device.
   4. Slope tracks at proper angle from vertical, or otherwise design to ensure tight closure at jambs when door unit is closed.

B. Track Reinforcement and Supports
   1. Provide galvanized steel track reinforcement and support members.
   2. Secure, reinforce and support tracks as required for size and weight of door to provide strength and rigidity, and to ensure against sag, sway and detrimental vibration during opening and closing of doors.

3. Support and attach tracks to opening jambs with continuous angle welded to tracks and attached to wall.

C. Counterbalancing Mechanism
1. Hang door assembly for operation by torsion spring counterbalance mechanism, consisting of adjustable-tension tempered steel torsion springs mounted on a case hardened steel shaft, and connected to door with galvanized air-craft type lift cables.
2. Provide cast aluminum or gray iron casting cable drums, grooved to receive cable.
3. Mount counterbalance mechanism with manufacturer's standard ball-bearing brackets at each end of shaft with one additional midpoint bracket for shafts up to 16' long and 2 additional brackets at one-third points to support shafts over 16' long, unless closer spacing is recommended by door manufacturer.
4. Include a spring-loaded steel or bronze cam mounted to bottom door roller assembly on each side, designed to stop door automatically if either cable breaks.
5. Provide either a compression spring or leaf spring bumper installed at end of each vertical track to cushion door at end of opening operation.

D. Weather Seals: Provide continuous rubber, neoprene or flexible vinyl adjustable weatherstrip gasket at tops and at jambs of overhead doors for fully weathertight installation.

E. Automatic Reversing Control: Furnish each door with automatic safety switch, extending full width of door bottom, and located within neoprene or rubber astragal mounted to bottom door rail. Contact with switch before fully closing will immediately stop downward travel and reverse direction to fully opened position. Connect to control circuit through retracting safety cord and reel, or self-coiling cable.

2.03 ACCESSORIES

A. Hardware: Provide heavy duty, rust-resistant hardware, with galvanized, cadmium plated, or stainless steel fasteners, to suit type of door.
1. Hinges
a. Provide heavy steel hinges at each end stile and at each intermediate stile, per manufacturer's recommendations for size of door.
b. Attach hinges to door sections through stiles and rails with bolts and lock nuts or with lock washers and nuts.
c. Use rivets or self-tapping fasteners where access to nuts is not possible.
2. Rollers: Provide heavy-duty rollers, with steel ball bearings in case-hardened steel races, mounted with varying projections to suit slope of track.
a. Interior Glazed Doors: Provide manufacturer standard roller safety device designed to prevent injury.
3. Head and Jamb Weatherstripping: Flexible one piece vinyl extrusions.
4. Bottom Weatherstripping: Vinyl weatherseal, full width of door.

2.04 ELECTRIC DOOR OPERATOR

A. General: Provide electric door operator assembly of size and capacity recommended and provided by door manufacturer; complete with electric motor and factory-prewired motor controls, gear reduction unit, solenoid operated brake, clutch, remote control stations and accessories required for proper operation.

B. Door Operator Type: Provide wall or bracket-mounted door operator units consisting of electric motor, worm gear drive from motor to reduction gear box, chain or worm gear drive from reduction box to gear wheel mounted on counterbalance shaft, and a disconnect-release for manual operation. Provide motor and drive assembly of horsepower and design as determined by door manufacturer for size of door required.

C. Electric Motors: Provide high-starting torque, reversible, constant duty, Class A insulated electric motors with overload protection, sized to move door in either direction, from any position at not less than 2/3' nor more than 1' per second.
1. Power: 115v, 1 phase, 60Hz; motor horsepower sized for application, minimum 1 hp.
2. Controls:

a. Provide momentary-contact, single push button for each door.

2.05 CONTROLS

A. Provide full-guarded surface-mounted heavy duty interior units.

PART 3 EXECUTION

3.01 INSPECTION

A. Installer must examine the supporting structure and the conditions under which the work is to be performed and notify the General Contractor in writing of conditions which are detrimental to proper and timely completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

3.02 INSTALLATION

A. Install door and operating equipment complete with necessary hardware, tracks, anchors, inserts, hangers and equipment supports in accordance with drawings and manufacturer's instructions and recommendations.

3.03 FIELD ADJUSTMENT

A. Upon completion of installation including the work by other trades, test and adjust doors to operate easily, free from warp, twist or distortion.

END OF SECTION 08 36 13

SECTION 08 71 10
DOOR HARDWARE

PART 1 GENERAL

1.01 SUMMARY

A. This Section includes the following:
   1. Commercial door hardware.
   2. Cylinders for doors specified in other Sections.
   3. Electrified door hardware.

1.02 REFERENCE STANDARDS

A. BHMA A156.2 - Bored and Preassembled Locks and Latches; 2022.

B. BHMA A156.3 - Exit Devices; 2025.

C. BHMA A156.13 - Mortise Locks & Latches Series 1000; 2022.

D. BHMA A156.18 - Standard for Materials and Finishes; 2020.

E. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2025.

F. NFPA 252 - Standard Methods of Fire Tests of Door Assemblies; 2022.

G. UL 305 - Standard for Panic Hardware; Current Edition, Including All Revisions.

1.03 SUBMITTALS

A. Product Data: For each product indicated.

B. Shop Drawings: Include details of electrified door hardware and wiring diagrams.

C. Samples: For each exposed finish.

D. Door Hardware Schedule: Organized into door hardware sets indicating type, style, function, size, label, hand, manufacturer, fasteners, location, and finish of each door hardware item. Include description of each electrified door hardware function, including sequence of operation.

E. Keying Schedule: Detail Owner's final keying instructions for locks.

F. Product certificates.

1.04 QUALITY ASSURANCE

A. Supplier Qualifications: Person who is or employs a qualified DHI Architectural Hardware Consultant.

B. Source Limitations: Obtain electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated. Manufacturers that are listed to perform electrical modifications, by a testing and inspecting agency acceptable to authorities having jurisdiction, are acceptable.

C. Keying Conference: Conduct conference at Project site. Incorporate keying conference decisions into final keying schedule.

D. Pre-installation Conference: Conduct conference at project site.

E. Keys: Deliver keys to Owner by registered mail.

F. Templates: Obtain and distribute templates for doors, frames, and other work specified to be factory prepared for installing door hardware.

G. Standards: Comply with BHMA A156 series standards, Grade 1.

H. Certified Products: Provide door hardware that is listed in BHMA directory of certified products.

1.05 DELIVERY, STORAGE AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.06 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.07 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within warranty period. Warranty includes materials and installation.
   1. Warranty Period for Locks: 7 years from date of Contract Completion.
   2. Warranty Period for Manual Closers: 10 years from date of Contract Completion.
   3. Warranty Period for Exit Devices: 3 years from date of Contract Completion.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Product: Subject to compliance with requirements, provide the product named for each door hardware item indicated in Door Hardware Sets.

B. Basis-of-Design Product: Product named for each door hardware item indicated in Door Hardware Sets establishes the basis of design. Provide either the named product or a comparable product by one of the manufacturers specified for each type of hardware item.

C. Manufacturers used in the specification: review for each project

PRODUCTS	MANUFACTURE SPECIFIED	ACCEPTABLE EQUALS
HINGES	MCKINNEY	HAGER, IVES
LOCKSETS	SARGENT	SCHLAGE
CYLINDERS	SARGENT KESO	PRIMUS
EXIT DEVICES	VON DUPRIN 99 SERIES	SARGENT
CLOSERS	LCN 4041	
OVERHEAD STOPS	GLYNN JOHNSON	RIXSON, ABH
PUSH/PULLS, STOPS	IVES	HAGER, ROCKWOOD
FLUSHBOLTS	IVES	HAGER, ROCKWOOD
THRESHOLDS/SEALS	NATIONAL GUARD	HAGER, PEMKO
POWER TRANSFERS/SUPPLIES	VON DUPRIN	SARGENT
AUTO. OPERATORS	BESAM	

2.02 DOOR HARDWARE

A. Scheduled Door Hardware: Provide door hardware according to Door Hardware Sets at the end of Part 3. Manufacturers' names are abbreviated.

2.03 HINGES

A. General: Except for hinges and pivots to be installed entirely (both leaves) into wood doors and frames, provide only template-produced units.

B. Hinge Base Metal: Unless otherwise indicated, provide the following:

1. Exterior Hinges: Stainless steel, with stainless-steel pin.
2. Interior Hinges: Steel, with steel pin.
3. Hinges for Fire-Rated Assemblies: Steel, with steel pin.

C. Non-removable Pins: Provide set screw in hinge barrel that prevents removal of pin while door is closed; for out-swinging exterior doors.

D. Screws: Phillips flat-head screws; screw heads finished to match surface of hinges.
1. Metal Doors and Frames: Machine screws (drilled and tapped holes).
2. Wood Doors and Frames: Wood screws.

2.04 MECHANICAL LOCKS AND LATCHES

A. Mortise Locks
1. Locks shall be BHMA A156.13, Grade 1 mortise locksets, Manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
2. Locks to have a standard 2-3/4” backset with a full 3/4" throw stainless steel mechanical anti-friction latch bolt. Deadbolt shall be a full 1” throw, constructed of stainless steel.
3. Lever trim shall be cast or forged in the design specified, with 2-1/8” diameter roses. Levers to be thru-bolted to assure proper alignment. Trim shall be applied by threaded bushing “no exposed screws”.

B. Cylindrical Locks
1. Locks shall be BHMA A156.2, Series 4000 Grade 1 UL Listed for 3-hour doors. Manufactured from heavy gauge cold rolled steel mechanisms that are corrosion treated for normal conditions.
2. Locks to have standard 2-3/4” backset with a full 1/2" reversible dead latch. Thru-bolted mounting post for positive interlock to the door with concealed mounting screws.
3. Lever trim shall be pressure cast zinc to match finishes. The design specified, with 3-7/16” diameter roses. Trim shall be applied by “no exposed screws”.

C. Lock Functions
1. Keypad Cylindrical Locks – Sargent KP-77 series.
2. Keypad Mortise series – Sargent #KP8200.
3. Storeroom / Closet – Sargent #10G04.
4. Entrance/Office – Sargent #10G05.
5. Classroom – Sargent #10G37.
6. Passage – Sargent #10U15.
7. Privacy/Bathroom – Sargent #10U65.
8. Keypad lockset – Sargent #KP10G77.
9. Hospital Latch – Sargent #115 Push-Pull with 2-3/4 backset

2.05 BOLTS

A. Shall have forged bronze faceplate with extruded brass lever wrought brass guide and strike. Flush bolts for hollow metal doors shall be extension rod type door up to 7’6” in height shall have 12” steel or brass rods, manual flush bolts for doors over 7’6” in height shall be increased by 6” for each additional 6” of door height. Wood doors shall have corner-wrap type. Provide dust proof strikes for all bottom bolts.

2.06 EXIT DEVICES

A. Panic Exit Devices: Listed and labeled for panic protection, based on testing according to UL 305.

B. Fire Exit Devices: Complying with NFPA 80 that are listed and labeled for fire and panic protection, based on testing according to UL 305 and NFPA 252.

C. All lever design shall match mortise or cylindrical lock lever designs as approved by Architect.

D. All devices to incorporate a security dead-latching feature. Provide roller strikes for all rim and surface mounted vertical rod devices, ASA strikes for mortise devices, and manufacturer's standard strikes for concealed vertical rod devices.

E. Removable Mullions: BHMA A156.3.
   1. Fire-Exit Removable Mullions: Complying with NFPA 80 that are listed and labeled for fire and panic protection, based on testing according to UL 305 and NFPA 252. Mullions shall be used only with exit devices for which they have been tested.

F. Carry-Open Bars: Provide carry-open bars for inactive leaves of pairs of doors, unless automatic or self-latching bolts are used.

2.07 CLOSERS

A. Surface-Mounted Closers
   1. Spring power shall be continuously adjustable over the full range of closer sizes, and allow for reduced opening force for the physically handicapped. Hydraulic regulation shall be by tamper-proof, non-critical valves. Closers shall have separate adjustment for latch speed, general speed, and back check.
   2. All closers will not be seen on the public side or hallway side of the door. The appropriate drop plate or mounting plates will be used as conditions dictate.
   3. Install with sex bolts.

2.08 PROTECTIVE TRIM UNITS

A. Protective Trim Units: Sized 2" inches less than door width on push side and 1" inch less than door width on pull side, by height scheduled or indicated. Fasten with exposed machine or self-tapping screws.

2.09 STOPS AND HOLDERS

A. Stops and Holders: Provide wall stops for doors, unless other type stops are scheduled or indicated. Where wall stops are not appropriate, provide overhead stops.

B. Silencers for Door Frames: Neoprene or rubber; fabricated for drilled-in application to frame.

2.10 DOOR GASKETING AND THRESHOLDS

A. Door Gasketing: Provide continuous weather-strip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated or scheduled. Provide non-corrosive fasteners for exterior applications and elsewhere as indicated.

2.11 KEYING

A. Match Owner's existing keying system as directed by Owner. Schedule keying meeting with Owner. No keying work is permitted until keying meeting is completed.

2.12 AUTOMATIC DOOR OPERATOR

A. Description: Self-contained, low energy, electro-mechanical design. Powered open with spring force closing. Motor is to be off when door is in closing mode. Door can be manually operated with power on or off without damage to the operator.
   1. Operation: Manual/Automatic. Manual when pushed open; automatic when actuated by push button switch or card reader.
   2. Provide operator with the following variable adjustments complying with Standard ANSI A156.19.
      a. Opening Speed: 3 to 5 seconds.
      b. Closing Speed: 3 to 5 seconds.
      c. Time Delay Before Closing: 1.5 to 30 seconds.
   3. Opening and Closing Force (Measured 2" out from lock stile of door): Adjustable from 5 to 15 pounds of force to stop door when operating in either direction.
   4. Provide operator with feature to turn off opening force when door is stopped for one second. Door then begins to close. Operator immediately resets and will accept another opening signal.

5. Cover: Extruded aluminum.
   a. Entrance Doors: Fluoropolymer finish to match door. See Section 08 41 13.
   b. Interior Doors: Clear anodized finish.
6. Controls: Provide 6" diameter stainless steel push button switch with handicapped insignia. Locate where indicated.
7. Electrical: 120 VAC, 60 cycle, 1 phase, 15 amp service to the operator.
8. Manufacturer: BESAM (BES) SW200i Series.

B. Bollard: 6” x 6” x 42” high aluminum; clear anodized; similar to CURRAN ENGINEERING. Coordinate with recessed round push plate.

2.13 FABRICATION

A. Base Metals: Furnish metals of a quality equal to or greater than that of specified door hardware units and BHMA A156.18 for finishes. Do not furnish manufacturer's standard materials if different from specified standard.

B. Fasteners: Phillips flat-head screws with finished heads to match surface of door hardware, unless otherwise indicated. Provide steel machine or wood screws or steel through bolts for fire-rated applications.

C. Spacers or Sex Bolts: For through bolting of hollow metal doors.

D. Fasteners for Wood Doors: Comply with requirements of DHI WDHS.2, "Recommended Fasteners for Wood Doors."

E. Finishes: Comply with BHMA A156.18.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.02 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.03 INSTALLATION

A. Examine doors and frames for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.

B. Steel Door and Frame Preparation: Comply with DHI A115 series. Drill and tap doors and frames for surface-applied hardware according to SDI 107.

C. Wood Door Preparation: Comply with DHI A115-W series.

D. Mounting Heights: Comply with the following requirements, unless otherwise indicated:
   1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
   2. Custom Steel Doors and Frames: DHI's "Recommended Locations for Builders' Hardware for Custom Steel Doors and Frames."
   3. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."

E. Adjust and reinforce attachment substrates as necessary for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
   1. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Section 07 92 00 Sealants.

F. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with accessibility requirements.
   1. Door Closers: Adjust sweep period so that from an open position of 70 degrees, the door will take at least three seconds to move to a point 3 inches from the latch, measured to the leading edge of the door.

3.04 FIELD QUALITY CONTROL

A. Inspections: Owner will engage a qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.

B. Field Inspection (Punch Report): Reference Division 01 Sections “Closeout Procedures”. Produce project punch report for each installed door opening indicating compliance with approved submittals and verification hardware is properly installed, operating and adjusted. Include list of items to be completed and corrected, indicating the reasons or deficiencies causing the Work to be incomplete or rejected.

C. Organization of List: Include separate Door Opening and Deficiencies and Corrective Action Lists organized by Mark, Opening Remarks and Comments, and related Opening Images and Video Recordings.

3.05 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.06 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.07 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

B. DOOR HARDWARE SETS

C. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

D. Quantities listed are for each pair of doors, or for each single door.

E. The supplier is responsible for handing and sizing all products.

F. Where multiple options for a piece of hardware are given in a single line item, the supplier shall provide the appropriate application for the opening.

G. Manufacturer’s Abbreviations:

1. OT - Other
2. MK - McKinney
3. RO - Rockwood
4. YA - ASSA ABLOY ACCENTRA
5. RF - Rixson
6. PE - Pemko
7. SU - Securitron
8. LU - Lund Equipment Co

3.08 HARDWARE SETS TO FOLLOW.

Hardware Sets

Set: 1.0

Doors: G01, G02, G03, G04, G05, G06, G07, G09, G11, G13, G15, G17, G19, G21, G23, G25, G27, G29

Description: OH DOOR

1	Hardware By Others	Hardware By Door Supplier			

Set: 2.0

Doors: D111

Description: Exterior Panic Egress -MELR NL x Pull Closer Stop Arm

2	Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US32D	MK 087100	
1	Hinge, Full Mortise, Hvy Wt	T4A3386 QC8 4-1/2" x 4-1/2"	US32D	MK 087100	
1	Rim Exit Device, Nightlatch	6100ED B MELR 121NL 1109 x 6-Pin	630	YA 087100	⚡
1	Cylinder Core	SFIC core per facility requirements	626	YA	
1	Cylinder Housing	Rim / Mortise as req'd	626	YA 087100	
1	Door Pull	BF158	US32D	RO 087100	
1	Closer w/ Stop	5821	689	YA 087100	
1	Gasketing	2891AS		PE 087100	
1	Rain Guard	346C		PE 087100	
1	Sweep	3452AV		PE 087100	
1	Threshold w/ Seal	2005AT FHSL14SS		PE 087100	
1	ElectroLynx Harness	QC-hinge/strike/ or power transfer to ceiling		MK 087100	⚡
1	ElectroLynx Harness	QC- (size to door width/hardware)		MK 087100	⚡
1	Position Switch	DPS-M-GR		SU 087100	⚡
1	Power Supply	AQL appropriate to hardware requirements		SU 087100	⚡
1	CARD READER	Wall Reader to be provided by Systems Integrator			

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

Set: 2.1

Doors: D101
Description: Exterior Panic Egress -MELR NL x Pull Closer Stop Arm

2 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US32D	MK	087100	
1 Hinge, Full Mortise, Hvy Wt	T4A3386 QC8 4-1/2" x 4-1/2"	US32D	MK	087100	
1 Rim Exit Device, Nightlatch	6100ED B MELR 121NL 1109 x 6-Pin	630	YA	087100	⚡
2 Cylinder Core	SFIC core per facility requirements	626	YA		
2 Cylinder Housing	Rim / Mortise as req'd	626	YA	087100	
1 Door Pull	BF158	US32D	RO	087100	
1 Automatic Opener	6061	689	NO	087100	⚡
1 Gasketing	2891AS		PE	087100	
1 Rain Guard	346C		PE	087100	
1 Sweep	3452AV		PE	087100	
1 Threshold w/ Seal	2005AT FHSL14SS		PE	087100	
1 ElectroLynx Harness	QC-hinge/strike/ or power transfer to ceiling		MK	087100	⚡
1 ElectroLynx Harness	QC- (size to door width/hardware)		MK	087100	⚡
1 Position Switch	DPS-M-GR		SU	087100	⚡
1 Bollard Switch Post	500 w/actuator switch	689	NO	087100	⚡
1 Wall Switch	704		NO	087100	⚡
1 Keyswitch	MKA		SU	087100	⚡
1 Power Supply	AQL appropriate to hardware requirements		SU	087100	⚡

Notes: ACCESS BY AUTOMATIC OPERATOR WHEN EXTERIOR ACTUATOR SWITCH IS TURNED ON VIA KEYSWITCH FOR DAYTIME OPERATION/ OR BY TIMER CONTROL. INTERIOR ACTUATOR SWITCH IS ALWAYS ACTIVE.

Set: 3.0

Doors: D117, E1, E3, E5
Description: Exterior Storeroom Function Pair - MFB Closer Stop Arm OH Stop DPS

6 Hinge, Full Mortise, Hvy Wt	T4A3386 NRP 4-1/2" x 4-1/2"	US32D	MK	087100
2 Flush Bolt	555	US26D	RO	087100
1 Dust Proof Strike	570	US26D	RO	087100
1 Storeroom or Closet Lock	B PB 4605LN	626	YA	087100

1 Storeroom or Closet Lock	B PB 5405LN	626	YA	087100	
1 Surf Overhead Stop	10-336	630	RF	087100	
1 Closer w/ Stop	5821	689	YA	087100	
1 Rain Guard	346A		PE	087100	
1 Gasketing	2891AS		PE	087100	
2 Sweep	3452AV		PE	087100	
1 Threshold	171A FHSL14SS		PE	087100	
2 Position Switch	DPS-M-GR		SU	087100	⚡
1 Metal Edge Astragal	By HM Door Mfr.				

Set: 4.0

Doors: D109

Description: Rim Exit Elec Trim Closer Stop Arm Gasket

2 Hinge, Full Mortise, Hvy Wt	T4A3786 NRP 4-1/2" x 4-1/2"	US26D	MK	087100	
1 Hinge, Full Mortise, Hvy Wt	T4A3786 QC8 4-1/2" x 4-1/2"	US26D	MK	087100	
1 Electrified Rim Exit, Fail Secure	6100ED B PB691F	630	YA	087100	⚡
1 Cylinder Core	SFIC core per facility requirements	626	YA		
1 Cylinder Housing	Rim / Mortise as req'd	626	YA	087100	
1 Closer w/ Stop	5821	689	YA	087100	
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO	087100	
1 Gasketing	S88D (Head & Jambs)		PE	087100	
1 ElectroLynx Harness	QC-hinge/strike/ or power transfer to ceiling		MK	087100	⚡
1 ElectroLynx Harness	QC- (size to door width/hardware)		MK	087100	⚡
1 Position Switch	DPS-M-GR		SU	087100	⚡
1 Power Supply	AQL appropriate to hardware requirements		SU	087100	⚡
1 CARD READER	Wall Reader to be provided by Systems Integrator				

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

Set: 5.0

Doors: D104, D115

Description: Elec lock Closer COHS Gasket

2 Hinge, Full Mortise, Hvy Wt	T4A3786 QC8 4-1/2" x 4-1/2"	US26D	MK	087100	
1 Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2"	US26D	MK	087100	
1 Fail Secure Lock	B PB 5491LN REX	626	YA	087100	⚡
1 Cylinder Core	SFIC core per facility requirements	626	YA		
1 Conc Overhead Stop	6-336	630	RF	087100	
1 Surface Closer	2701	689	YA	087100	
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO	087100	
1 Gasketing	S88D (Head & Jambs)		PE	087100	
1 ElectroLynx Harness	QC-hinge/strike/ or power transfer to ceiling		MK	087100	⚡
1 ElectroLynx Harness	QC- (size to door width/hardware)		MK	087100	⚡
1 Position Switch	DPS-M-GR		SU	087100	⚡
1 Power Supply	AQL appropriate to hardware requirements		SU	087100	⚡
1 CARD READER	Wall Reader to be provided by Systems Integrator				

Notes: ACCESS BY AUTHORIZED CARD CREDENTIAL OR MANUAL KEY. ALWAYS FREE EGRESS.

Set: 6.0

Doors: D116

Description: Storeroom Function Closer

3 Hinge, Full Mortise	MPB79 (size per spec)	US26D	MK	087100
1 Storeroom or Closet Lock	B PB 4605LN	626	YA	087100
1 Cylinder Core	SFIC core per facility requirements	626	YA	
1 Surface Closer	2701	689	YA	087100
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO	087100
1 Door Stop	403 (or) 441CU (As Required)	US26D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100

Set: 7.0

Doors: D104A

Description: Storeroom Function No Closer

3 Hinge, Full Mortise	MPB79 (size per spec)	US26D	MK	087100
1 Storeroom or Closet Lock	B PB 4605LN	626	YA	087100
1 Cylinder Core	SFIC core per facility requirements	626	YA	
1 Door Stop	403 (or) 441CU (As Required)	US26D	RO	087100
3 Silencer	608		RO	087100

Set: 8.0

Doors: D108A, D108B

Description: Classroom Function - Panic Egress - Closer Stop Arm Gasket

3 Hinge, Full Mortise	MPB79 (size per spec)	US26D	MK	087100
1 Rim Exit Device, Classroom	6100ED PB626F	630	YA	087100
1 Cylinder Core	SFIC core per facility requirements	626	YA	
1 Cylinder Housing	Rim / Mortise as req'd	626	YA	087100
1 Closer w/ Stop	5821	689	YA	087100
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100

Notes: EXIT DEVICE IS EITHER LOCKED OR UNLOCKED. LOCK FOR AFTERHOURS OPERATION. ALWAYS FREE EGRESS.

Set: 9.0

Doors: D103, D106

Description: Office Function No Closer Gasket

3 Hinge, Full Mortise	MPB79 (size per spec)	US26D	MK	087100
1 Entry Lock	B PB 4704LN	626	YA	087100
1 Cylinder Core	SFIC core per facility requirements	626	YA	
1 Door Stop	403 (or) 441CU (As Required)	US26D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100

Set: 10.0

Doors: D107

Description: Classroom Lock Closer Stop Arm Gasket

3 Hinge, Full Mortise, Hvy Wt	T4A3786 4-1/2" x 4-1/2"	US26D	MK	087100
1 Classroom Lock	PB 5408LN	626	YA	087100

1 Closer w/ Stop	5821	689	YA	087100
1 Kick Plate	K1050 10" high BEV CSK	US32D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100

Notes: LOCKSET IS EITHER LOCKED OR UNLOCKED. LOCK FOR AFTERHOURS OPERATION. ALWAYS FREE EGRESS.

Set: 11.0

Doors: D113, D114

Description: Privacy Function No Closer Gasket

3 Hinge, Full Mortise	MPB79 (size per spec)	US26D	MK	087100
1 Privacy Lock	PB 4602LN	626	YA	087100
1 Door Stop	403 (or) 441CU (As Required)	US26D	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100

Set: 12.0

Description: Apartment Unit - Entry

3 Hinge, Spring set	MPS679 4-1/2" x 4-1/2"	US26D	MK	087100
1 Deadbolt	D241 B	626	YA	087100
1 Passage Latch	PB 4601LN	626	YA	087100
1 Cylinder Core	SFIC core per facility requirements	626	YA	
1 Door Stop	526/528 as req'd	US15	RO	087100
1 Gasketing	S88D (Head & Jambs)		PE	087100
1 Door Bottom	209AV		PE	087100
1 Threshold	151A		PE	087100

Set: 13.0

Description: Apartment Unit - Privacy Function

3 Hinge	By Pre-hung Door Mfr.	619	OT	
1 Privacy Lock	PB 4602LN	626	YA	087100
1 Door Stop	526/528 as req'd	US15	RO	087100
3 Silencer	608CA		RO	087100

Set: 14.0

Description: Apartment Unit - Passage Function

3 Hinge	By Pre-hung Door Mfr.	619	OT	
1 Passage Latch	PB 4601LN	626	YA	087100
1 Door Stop, hinge pin stop	528	NP	RO	087100
3 Silencer	608CA		RO	087100

Set: 15.0

Description: Apartment Unit - Pair Dummy Lever Roller Latch

6 Hinge	By Pre-hung Door Mfr.	619	OT	
1 Single Dummy Trim	PB 4755LN	626	YA	087100
1 Roller Latch	594	US26D	RO	087100
2 Door Stop	526/528 as req'd	US15	RO	087100
2 Silencer	608CA		RO	087100

Set: 16.0

Description: Unit Balcony

1 Hardware By Others	Hardware By Door Supplier			

Set: 17.0

Doors: MISC
Description: MISC

1 BITTING LIST	KEY RECORDS			
1 KEY BLANKS	BOX OF 50			
1 Key Cabinet	Sized per specification documents		LU	
1 Knox Box	Knox Box (coordinate with local fire station for requirements and location)			

END OF SECTION 08 71 00

SECTION 09 29 00
GYPSUM WALLBOARD

PART 1 GENERAL

1.01 SCOPE

A. Provide gypsum board systems consisting of wall board, trim and accessories. Work includes:
   1. Gypsum board wall systems.
   2. Exterior gypsum board sheathing.
   3. Suspended gypsum board ceilings and soffits including suspension framing system.
   4. Fire-rated gypsum board construction where indicated.
   5. Exterior soffits and ceilings.
   6. Edge trim, corner beads, control joints, accent reveals, fasteners, joint treatment materials and other accessories required for a complete installation.
   7. Includes installation of acoustical insulation specified in Section 07 21 00.
   8. Installation of metal access doors, including those provided by Plumbing and HVAC Contractors. See Section 08 31 13 and Divisions 22 and 23.
   9. Includes taping, spackling and finishing of joints at preformed gypsum column covers. See Section(s) 05 58 13, 09 27 13, and 09 27 14.
   10. Spray-on ceiling texture.

1.02 REFERENCE STANDARDS

A. ASTM C473 - Standard Test Methods for Physical Testing of Gypsum Panel Products; 2019.

B. ASTM C475/C475M - Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board; 2017 (Reapproved 2022).

C. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2023.

D. ASTM C834 - Standard Specification for Latex Sealants; 2017 (Reapproved 2023).

E. ASTM C840 - Standard Specification for Application and Finishing of Gypsum Board; 2023.

F. ASTM C919 - Standard Practice for Use of Sealants in Acoustical Applications; 2022.

G. ASTM C954 - Standard Specification for Steel Drill Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Steel Studs from 0.033 in. (0.84 mm) to 0.112 in. (2.84 mm) in Thickness; 2022.

H. ASTM C1002 - Standard Specification for Steel Self-Piercing Tapping Screws for Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs; 2022.

I. ASTM C1047 - Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base; 2019.

J. ASTM C1177/C1177M - Standard Specification for Glass Mat Gypsum Substrate for Use as Sheathing; 2017.

K. ASTM C1396/C1396M - Standard Specification for Gypsum Board; 2017.

~~ASTM C1629/C1629M - Standard Classification for Abuse-Resistant Nondecorated Interior Gypsum Panel Products and Fiber-Reinforced Cement Panels; 2023.~~

L. ASTM C1658/C1658M - Standard Specification for Glass Mat Gypsum Panels; 2019, with Editorial Revision (2020).

M. ASTM D1037 - Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle Panel Materials; 2012 (Reapproved 2020).

N. ASTM D2394 - Standard Test Methods for Simulated Service Testing of Wood and Wood-Based Finish Flooring; 2017.

O. ASTM D3273 - Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber; 2021.

P. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

Q. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2022.

R. ASTM E413 - Classification for Rating Sound Insulation; 2022.

1.03 RELATED SECTIONS

A. Rough Carpentry: Section 06 10 00.

B. Acoustical Insulation: Section 07 21 00.

C. Access Doors: Section 08 31 13.

~~Cold-Formed Metal Framing: Section 05 40 00.~~

~~Sustainable Design Requirements: Section 01 81 13.~~

~~VOC Limits: Section 01 81 16.~~

1.04 QUALITY ASSURANCE

A. Gypsum Board Systems: Comply with ASTM C840 "Recommended Specifications for Application and Finishing of Gypsum Board", and as specified.

B. Reference Standards: Wherever the following abbreviations are used herein they shall refer to the corresponding standard:
   1. ASTM: American Society for Testing and Materials.
   2. GA: Gypsum Association.
   3. FS: Federal Specification.

C. Allowable Tolerances: Provide framing fabricated and erected to conform to the following allowable tolerances:
   1. Ceiling Framing: Level within 1/8" in 10'-0" and erected so that deflection of any component does not exceed l/360 of its span after installation of finish materials and equipment.

D. Fire-Rated Construction: Comply with fire resistance ratings indicated on drawings and as required by governing authorities and codes. Provide materials, accessories and application procedures that have been listed by Underwriters Laboratories or tested in accordance with ASTM E119 for the type of construction shown.

E. Guarantee: Submit written guarantee stating that cracks, delaminations or other imperfections in the drywall work which may develop within a period of 2 years from date of acceptance will be repaired at no cost to the Owner.

F. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated, according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.

G. Job Mock-Up:
   1. Prior to start of gypsum board systems, a project mock-up is to be prepared. A designated room is to receive, wood framing, fire rated construction, acoustical treatments and related materials including resilient furring, wall board joint and screw taping and spackling, sanding and surface preparation. Job mock-up must demonstrate compliance with fire rating and acoustical assemblies required and be acceptable to Architect before beginning gypsum board finishing operations. Retain and maintain mock-up throughout remainder of project as a minimum workmanship standard. Gypsum board finishing quality must meet or exceed the quality of job mock-up.

H. Pre-Installation Conference: Conduct a pre-installation conference at Project site to review manufacturer’s recommendations and referenced requirements for locating control joints in gypsum board walls and ceilings a minimum of one (1) week prior to beginning this portion of the Work. Have manufacturer’s representative, contractor’s representative and Architect present at this meeting.

1.05 SUBMITTALS

A. Submit manufacturer's product data and installation instructions for each gypsum board system component.

B. Submit manufacturer's certification that fire-rated assemblies proposed meet project requirements, including evidence of approved test reports acceptable to governing building code enforcing authority, that assemblies when installed with proposed materials, will meet or exceed fire ratings required.

C. Sustainable Design Documentation Submittals: Comply with Section 01 81 13.
   1. VOC Limits: Include documentation verifying product Low Emitting Material Building Product Disclosures and Optimization.

1.06 DELIVERY, STORAGE AND HANDLING

A. Deliver materials in manufacturer's original, unopened labeled containers.

B. Store, protect and handle materials in accordance with manufacturer's recommendations to prevent damage, soiling and deterioration.

C. Protect adjoining surfaces against damage and soiling.

1.07 JOB CONDITIONS

A. Coordinate installation sequencing with work of other trades.

B. Sprayed Fireproofing
   1. All attachments to structural steel framing receiving sprayed fireproofing to be installed prior to application of sprayed fireproofing, if possible, to preclude removal of fireproofing.
   2. Where necessary to remove fireproofing and where fireproofing becomes damaged, provide for restoration in accordance with original fireproofing specifications at no additional cost to Owner.

C. Verify completion of other work, including that of other trades, that will be concealed by gypsum drywall construction before installation of wallboard.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Gypsum Board: U.S. GYPSUM CO.; CERTAINTEED CORP.; GEORGIA-PACIFIC CORP.; NATIONAL GYPSUM COMPANY; CONTINENTAL BUILDING PRODUCTS.

B. Others as listed for specific products.

C. Products General: Provide materials that comply with Project Sustainable Design Requirements and Low Emitting Material goals.

2.02 INTERIOR GYPSUM BOARD

A. General: Comply with ASTM C1396.

B. Fire Rated Gypsum Wallboard: Type “C” or "X" (special fire retardant) to meet fire ratings for construction shown. Tapered edges. Thickness 5/8" unless otherwise indicated. Use at all locations indicated as meeting a specific fire resistance rating.
   1. Provide 5/8”, Type X board at all locations not indicated to receive a specific type board.

C. Moisture and Mold Resistant Gypsum Wallboard 151%$
   1. ASTM C1396 (Section 5), Type X.
   2. Edges: Tapered.
   3. Thickness: 5/8 inch, unless otherwise indicated.
   4. Acceptable products: Mold Tough and Mold Tough Firecode (Type X) by USG; XP and XP Fire-Shield by NATIONAL; ToughRock and ToughRock Type X by GEORGIA-PACIFIC; Mold Defense and Mold Defense Type X by CONTINENTAL BUILDING PRODUCTS or equal by other gypsum board manufacturers listed in 2.01A.
   5. Water Absorption: ASTM C473, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.

6. Resistance to Mold Growth: ASTM D3273, “Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber,” the panel score was 10.
7. Use on non-ceramic tiled walls, ceilings and soffits in toilet rooms, shower rooms and drying rooms; on ceramic tiled non-wet walls in toilet rooms; walls and partitions above ceilings. Maintain ratings where wall is required to be rated.]

D. Moisture and Mold Resistant, Glass-Mat Gypsum Wallboard:
1. ASTM C1396/C1396M (Section 5) and applicable sections ASTM C1658/C1658M.
2. Type X.
3. Edges: Tapered.
4. Thickness: 5/8 inch.
5. Acceptable Products: Basis of design is e²XP Interior Extreme by National Gypsum. Other acceptable product include DensArmor Plus Firecode (Type X) by GEORGIA-PACIFIC or equal by other gypsum board manufacturers listed in 2.01A.
6. Water Absorption: ASTM C473, the average water absorption for panels is not greater than 5 percent by weight after two-hour immersion.
7. Resistance to Mold Growth: ASTM D3273, “Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber,” the panel score was 10.
8. Use on non-ceramic tiled walls, ceilings and soffits in toilet rooms, shower rooms and drying rooms; on ceramic tiled non-wet walls in toilet rooms; walls and partitions above ceilings. Maintain ratings where wall is required to be rated.]

~~Abuse Resistant Gypsum Wallboard: ASTM C1396/C1396M and ASTM C1629/C1629M.~~
~~Classification (ASTM C1629): Level 2 (Moderate Duty).~~
~~Minimum Physical Properties:~~
~~Thickness: 5/8 inch.~~
~~Fire Rating: Type X.~~
~~Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D 3274~~
~~Manufacturers: SheetRock Glass Mat mold Tough AR by USG, Hi-Abuse XP by NATIONAL GYPSUM COMPANY, TuffRock Abuse Resistant by GEORGIA PACIFIC, Protecta AR 100 by CONTINENTAL BUILDING PRODUCTS or equal by other gypsum board manufacturers listed in 2.01A.~~

~~Impact Resistant Gypsum Wallboard: ASTM C1396/C1396M and ASTM C1629/C1629M, manufactured to produce greater resistance to surface indentation and through-penetration than standard gypsum panels. Long edges tapered. Provide where indicated. 294%$~~
~~Classification (ASTM C1629/C1629M): Level 3 (Heavy Duty).~~
~~Minimum Physical Properties:~~
~~Thickness: 5/8 inch.~~
~~Type X.~~
~~Mold Resistance: minimum score of 10 per ASTM D3273~~
~~Soft Body Impact: Level 3.~~
~~Manufacturers: SheetRock Glass Mat Mold Tough VHI by USG, Hi-Impact XP by NATIONAL GYPSUM COMPANY, Dens-Armor Impact by GEORGIA PACIFIC, Protecta HIR 300 by CONTINENTAL BUILDING PRODUCTS or equal by other gypsum board manufacturers listed in 2.01A.~~

E. Mold Resistant Gypsum Shaftliner Board: ASTM C1396/C1396M, Type X, 1" thick gypsum core with mold resistant core and faces and chamfered edges.

F. Curved Walls - Interior: Provide ¼” Flexible Board where required. Meet all indicated fire ratings. Provide multiple plies to achieve thicknesses indicated. Stagger joints of adjacent plies. 198%$

G. Tile Backer Board: See Section 09 30 00

2.03 EXTERIOR GYPSUM BOARD AND SHEATHING

A. Exterior Sheathing and Ceiling Board: Use for exterior sheathing and where indicated on drawings. Provide in conformance with ASTM C1177/C1177M, water repellent treated core and fiberglass face sheets.
   1. Thickness: 5/8" thickness unless otherwise indicated.
   2. Fire Rating: Type “C” or "X" (special fire retardant) to meet fire ratings for construction shown..
   3. Acceptable Products: Dens-Glas by GEORGIA-PACIFIC, GlasRoc by CERTAINTEED, Weather Defense by CONTINENTAL BUILDING PRODUCTS, EXP Sheathing by NATIONAL, or Secure Rock by USG.
   4. Roof Parapets and Similar Roof Conditions:
      a. Where used as roofing substrate, provide high density, water repellent treated core with fiberglass mat and specifically designed for roofing membrane adhesion. Dens-Deck Prime Roof Board by GEORGIA-PACIFIC, USG Gypsum Fiber or equal by other gypsum board manufacturers listed in 2.01A. Coordinate with roofing assembly.

B. Exterior Ceiling and Soffit Board: Tapered edges, 5/8" thickness unless otherwise indicated. Water resistant gypsum core and treated paper facing to withstand effects of moisture and mold penetration. ASTM C1396/C1396M. Use for exterior covered walls, soffits and ceilings.
   1. Thickness: 5/8" thickness unless otherwise indicated.
   2. Acceptable Products: Mold Tough USG or equal by other gypsum board manufacturers listed in 2.01A.

C. Exterior Curved Walls – Cement Board (Exterior Sheathing)
   1. Thickness: ½”
   2. Physical Properties
      a. Compressive Strength – ASTM D2394: 1022 psi
      b. Water Absorption – ASTM C473 (Weight in 24 hours): Less than 8%.
      c. Impact Resistance – ASTM D1037 (Falling Ball 12” Drop): Pass.
   3. Model/Manufacturer: PermaBase Flex by NATIONAL GYPSUM or equal by other manufacturers listed in Article 2.01.
   4. Location: At curved sheathing locations.

2.04 ACCESSORIES

A. Fasteners: Drywall screws and metal framing screws per manufacturer's instructions and recommendations for type and size, based on construction and conditions involved.
   1. Steel Drill Screws: ASTM C1002.
   2. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 to 0.112 inch thick specified in Section 05 40 00.

B. Trim: ASTM C1047.
   1. Manufecturers:
      a. Metal: BEADEX MANUFACTURING; CLARK DIETRICH BUILDING SYSTEMS; listed gypsum board manufacturers
      b. Vinyl: VINYL TECH; VINYL CORP.; TRIM TEX
   2. Corner Beads - Outside, Square Corners: 1-1/4 inch x 1-1/4 inch heavy gauge galvanized steel or vinyl, perforated.
   3. Corner Beads - Outside, Non-square Corners: BEADEX B-1 Splay Flexible Corner or equal. Concealed metal; two galvanized continuous strips laminated with paper trim; for application without mechanical fasteners.
   4. Curved Edge Cornerbead: Notched or flexible edge.
   5. Exposed Edges (Casing Beads): L-bead or LC-bead; exposed long flange receives joint compound. Size to suit wallboard. J-shaped bead that does not receive joint compound is not permitted.
   6. Expansion (Control) Joints: Tape protected 1/4" wide x nominal 7/16" deep control slot.

C. Interior Joint Treatment Materials: ASTM C475/C475M.

1. Joint Tape. Width to adequately cover joint.
    a. Interior Gypsum Board: Paper.
    b. Exterior Gypsum Soffit Board: Paper.
    c. Glass-Mat Gypsum Sheathing Board: 10-by-10 glass mesh.
2. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
    a. Prefilling: At open joints and damaged surface areas, use setting-type taping compound.
    b. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
        1) Use setting-type compound for installing paper-faced metal trim accessories.
    c. Fill Coat: For second coat, use setting-type, sandable topping compound.
    d. Finish Coat: For third coat, use setting-type, sandable topping compound.
    e. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound.
3. Joint Compound for Tile Backing Panels:
    a. Water-Resistant Gypsum Backing Board: Use setting-type taping compound and setting-type, sandable topping compound.
    b. Cementitious Backer Units: Section 09 30 00.

D. Exterior Joint Treatment Materials: ASTM C475/C475M.
1. Joint Compound for Exterior Applications:
    a. Exterior Gypsum Soffit Board: Use setting-type taping compound and setting-type, sandable topping compound.
    b. Glass-Mat Gypsum Sheathing Board: As recommended by sheathing board manufacturer.

E. Additional Item: All additional accessories to complete work including nails and anchors to secure frames to walls and floors.

F. Reveal Trim Beads: Aluminum, Softforms STR-050-050 by PITTCON, DRMZ-50-50 by FRY REGLET, 312-1/2 by GORDON or DWSM-50-50 by FLANNERY. Factory primed painted.

G. Extruded Corner Trim
1. Material: Extruded aluminum 1 ¼” legs with 7/8” joint receptor.
2. Basis of Design: FRY REGLET DMCT-1250
3. Other Manufacturers: Equal products by PITTCON or GORDON

H. Acoustic Materials
1. Insulation
    a. Type: Semi-rigid mineral fiber (glass fiber, slag wool or rock wool) blankets. Conform to ASTM C665, Type I, unfaced .
    b. Thickness: 3 inch, unless otherwise indicated.
    c. Manufacturer: Thermafiber by U.S. GYPSUM; JOHNS MANVILLE; OWENS-CORNING FIBERGLAS; CERTAINTEED.
2. Sealant: Nonsag, paintable, nonstaining latex sealant complying with ASTM C834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.
    a. Manufacturers
        1) USG Acoustical Sealant
        2) TREMCO Acoustical Sealant
        3) PECORA BA-98
    b. BASF MasterSeal NP 520
    c. Acoustical joint sealant shall have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
3. Neoprene impregnated sealant tape.

4. Head of Wall Insulation: Pre-manufactured, high-density mineral fiber acoustical insulation shaped to fit the trapezoidal flutes, typical of metal decking and complying with ASTM E119 as safing insulation.

I. Electrical/Acoustical Box Pads: Moldable Polybutene pads, minimum 1/8 inch thick. 3M Putty Pads, 3M FIRE PROTECTION PRODUCTS or equal

PART 3 EXECUTION

3.01 GENERAL

A. Comply with the requirements of ASTM C840 "Standard Specification for the Application and Finishing of Wallboard", unless otherwise specified or recommended by the manufacturer.

3.02 PREPARATION

A. Maintain uniform building temperature range not less than 55 degrees F., for 24 hours before, during and after gypsum panel installation and joint finishing treatment.

B. Provide adequate lighting and ventilation during installation and joint finishing treatment.

3.03 INSPECTION

A. Examine substrates and installation conditions. Do not proceed with gypsum wallboard work until unsatisfactory conditions have been corrected.

B. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

3.04 FRAMING INSTALLATION

A. Install framing for walls and ceilings/soffits receiving gypsum wallboard finish.
   1. See Section 061000, Rough Framing, for materials and methods of installation.

3.05 GYPSUM BOARD INSTALLATION

A. General
   1. Pre-installation Conference: Before start of gypsum board installation, meet at the project site with the Architect and installers of related work, including work requiring openings, access panels, support, similar integrated requirements and mechanical and electrical trades. Review potential interferences and conflicts and coordinate layout and sequencing requirements for proper installation and integration of the work.
      a. Do not proceed with gypsum board installation until framing, bracing and other supports for subsequently applied work have been installed, reviewed and accepted by the Architect.
      b. Do not install gypsum board until work concealed by gypsum board has been installed.

B. Application
   1. Install gypsum board face side out. Do not install imperfect, damaged or damp boards.
   2. Butt boards together for a light contact at edges and ends with not more than 1/16 open space between boards. Do not force into place.
   3. Locate either edges or end joints over supports. Position boards so that both tapered edge joints abut. Do not place tapered edges against cut edges or ends. Stagger vertical joints over different studs on opposite sides of partitions.
   4. Attach gypsum board to framing and blocking as required for additional support at openings and cutouts.
   5. Floating Construction: Install gypsum board with "floating" internal corner construction, unless isolation of the intersecting board is indicated.
   6. In addition to compliance with the standards, comply with specific requirements indicated for each type of arrangement of gypsum wallboard system shown. Space fasteners in accordance with manufacturer's recommendations and complying with referenced standards.

a. Walls and Partitions: Apply sheets horizontally or vertically. Provide maximum sheet lengths to minimize end joints with edges or ends over supports. In two layer applications, stagger joints of second layer from joints of first layer.
b. Cut and install panels to eliminate vertical joints in corners of door frames to ceiling.
c. Make cutouts to fit within wall plate, register and grille flanged. All cutouts made by knife or saw.
d. Make angles and corners clean, true, plumb and square; walls plumb, flat and straight and ceilings flat and level.
e. Ceilings: Apply gypsum board on ceilings, before application on walls and partitions. Install in direction and manner to minimize end joints. Stagger end joints over supports. In two layer applications, stagger joints of second layer from joints of first layer.

3.06 EXTERIOR SHEATHING AND SOFFIT BOARD

A. Comply with GA-253 and with manufacturer's written instructions.
1. Install exterior sheathing board perpendicular to supports, stagger end joints over supports, use maximum lengths possible to minimize joints.
2. Install with 1/4 inch open space where boards abut other work.
3. Space screws 4 inches o.c. around perimeter of board and 8 inches o.c. on intermediate framing members and on diagonal braces. Locate fasteners minimum 3/8 inches from edges and ends of sheathing panels. Drive fasteners to bear tight against and flush with sheathing surface. Do not countersink.
4. Apply sealant around sheathing perimeter at interface with other materials.
5. Board Joints: Provide seam sealing tape or joint sealant at Contractor's option, as follows:
a. Seam Sealing Tape, Horizontal Applications.
1) Apply primer to joints and fasteners, allow to dry.
2) Seal joints using tape specified herein or other similar type method recommended by board manufacturers for application indicated. Apply at time of sheathing, to sealed, dry, dust-free joints. Apply seam sealing tape along all edges, overlapping at intersections by width of tape.
3) Apply sealant to exposed fasteners with a trowel so fasteners are completely covered.
4) Seal other penetrations and openings.
5) Coordinate sheathing and placement of through-wall flashing. Tape top of through-wall sealant to sheathing to provide a water-tight joint.
b. Sealant
1) Apply minimum 3/8" bead of sealant to joints and trowel to provide a layer approximately 2" wide by 1/16" thick spanning the joint. Apply enough to each fastener to cover completely when troweled flat. Use backer rod for openings larger than 1/8".
2) Apply sealant to exposed fasteners with a trowel so fasteners are completely covered.
3) Seal other penetrations and openings.
4) Coordinate sheathing and placement of through-wall flashing. Tape top of through-wall flashing to sheathing to provide a water-tight joint.

3.07 INSTALLATION OF SOUND RATED PARTITIONS

A. Provide sound-rated construction where indicated.

B. Acoustic Insulation: Install single layer of acoustic batt insulation in designated partitions after one side of gypsum board is installed, filling width and height of partition completely. Attach to gypsum board with adhesive spots to prevent subsequent displacement.

C. Extend partition stud system through acoustical ceilings to substrate. Apply gypsum board base panels full height, both sides of partition.

D. Seal construction at perimeters, behind control joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations. Comply with ASTM C919 and with manufacturer's written recommendations for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.

E. Seal partition perimeters. Provide continuous beads of acoustical sealant at juncture of both faces of runners or plates with floor and ceiling construction and wherever work abuts dissimilar materials. Seal prior to installation of sound attenuation insulation and gypsum board panels.

F. Provide continuous beads of sealant at juncture of gypsum board and abutting surface. Install gypsum board with 1/8" relief for sealant. Sealants to be contained within depth of gypsum board, not as a fillet.

G. At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.

H. If sound-rated partitions intersect non-sound-rated partitions, extend sound construction to completely close-off sound flanking paths through non-rated construction. Seal joints between face layers at vertical interior angles of intersecting partitions.

I. Exercise particular care at walls surrounding toilet areas and walls and ceilings surrounding mechanical spaces to provide properly constructed sound-rated gypsum board partition and ceiling systems.

J. Verify that electrical boxes are not located back-to-back; back-to back boxes to be offset at least one stud space. Do not close off non-complying conditions before notifying and receiving direction from Architect.

3.08 TRIM AND ACCESSORIES

A. Install corner beads at external corners of gypsum wallboard work. Use longest practical lengths.

B. Install edge trim wherever edge of gypsum board would be exposed or semi-exposed.
   1. Provide beaded trim to receive joint compound at all gypsum wallboard work.
   2. Provide L-type trim where work is abutted to other work and Kerf-type where work is kerfed to receive kerf leg.
   3. Provide U-type trim where edge is exposed, revealed, gasketed or sealant filled, including expansion joints.

C. Control Joints
   1. Install control joints to isolate gypsum board surfaces as recommended in ASTM C840. Verify locations with Architect prior to installation. Generally locate joints as follows when:
      a. Ceiling or partition abuts a structural element, dissimilar wall or partition or other vertical penetration.
      b. Construction changes within the plane of ceiling or wall.
      c. Wall dimensions exceed 30'-0".
      d. Ceiling dimensions exceed 50' in either direction with perimeter relief; 30'-0" without relief.
      e. Exterior soffits exceed 20'-0" in either direction; align with window mullions, when applicable.
      f. Wings of "L", "U", and "T"-shaped ceiling areas are joined.

3.09 FINISHING

A. Comply with manufacturer's instructions for mixing, handling and application of materials.
   1. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board, fastener heads, surface defects and elsewhere indicated.
   2. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.

B. Prefill open joints of more than 1/16" with special chemical-hardening type bedding compound, before bedding joint tape.

C. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.

D. Do not use topping compound for bedding joint tape.

E. Apply joint compound for the final coat of joint treatment, unless specifically recommended by the manufacturer for that use.

F. Leave all exposed interior surfaces smooth and even, ready for painting.

G. Walls Above Acoustical Ceiling Systems: Tape and fill joints with two coats of joint compound, sanding not required.

H. Leave all exposed surfaces smooth and even, ready for painting.

I. Provide where indicated on the drawings levels of finish as specified in ASTM C840, "Recommended Specification on Levels of Gypsum Board Finish". Levels of finish consist of:
   1. Level 1 - **Areas Above Ceilings:** All joints and interior angles shall have tape embedded in joint compound. Provide surface free of excess joint compound. Tool marks and ridges are acceptable.
   2. Level 2 – **As a Substrate for Ceramic Tile:** All joints and interior angles to have tape embedded in joint compound and one separate coat of joint compound applied over all joints, angles, fastener heads, and accessories. Surface shall be free of excess joint compound. Tool marks and ridges are acceptable.
   3. Level 3: All joints and interior angles to have tape embedded in joint compound and two separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. All joint compound shall be smooth and free of tool marks and ridges.
   4. Level 4 – **All Areas Not Indicated to Receive Levels 1, 2 or 5:** All joints and interior angles to have tape embedded in joint compound and three separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. All joint compound shall be smooth and free of tool marks and ridges.
   5. Level 5 – **All Areas to Receive Semi-Gloss or Gloss Coatings:** All joints and interior angles to have tape embedded in joint compound and three separate coats of joint compound applied over all joints, angles, fastener heads, and accessories. A thin skim coat of joint compound, or a material manufactured especially for this purpose, shall be applied to the entire surface. Excess material is to be removed leaving a film covering over the gypsum board paper surface.

3.10 ADJUST AND CLEAN

A. Nail Pop
   1. Repair nail pop by driving new nails approximately 1-1/2" from nail pop and reseat nail.
   2. When paper face is punctured, drive new nail or screw approximately 1-1/2" from defective fastener and remove defective fastener. Fill damaged surface with compound.

B. Ridging
   1. Do not repair ridging until condition has fully developed: approximately 6 months after installation or one heating season.
   2. Sand ridges to reinforcing tape without cutting through tape.
   3. Fill concave areas on both sides of ridge with topping compound.
   4. After fill is dry, blend in topping compound over repaired area.

C. Fill cracks with compound and finish smooth and flush.

D. Remove and replace panels that are wet, moisture damaged, and mold damaged.
   1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
   2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 09 29 00

SECTION 09 65 66
RESILIENT ATHLETIC FLOORING – TILES / SHEETS

PART 1 GENERAL

1.01 DESCRIPTION

A. Provide rubber athletic flooring as indicated. Include all trim, accessories and adhesives for a complete installation.

B. Coordination: Coordinate concrete slab placement with tolerances and dimension required for floor systems specified herein. Include the following:
   1. Concrete slab depression: As required for each flooring system.
   2. Concrete Finish/Tolerance: 1/8" in radius of 10' surface; steel troweled.

1.02 RELATED SECTIONS

A. Concrete Tolerance: See Section 03 30 00.

B. Resilient Athletic Flooring – Fluid Applied: Section 09 67 66.

1.03 REFERENCE STANDARDS

A. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus; 2021.

B. ASTM C557 - Standard Specification for Adhesives for Fastening Gypsum Wallboard to Wood Framing; 2003 (Reapproved 2017).

C. ASTM D395 - Standard Test Methods for Rubber Property—Compression Set; 2018.

D. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers--Tension; 2016 (Reapproved 2021).

E. ASTM D624 - Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers; 2000 (Reapproved 2020).

F. ASTM D1667 - Standard Specification for Flexible Cellular Materials—Poly (Vinyl Chloride) Foam (Closed-Cell); 2022.

G. ASTM D2047 - Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine; 2017.

H. ASTM D2240 - Standard Test Method for Rubber Property--Durometer Hardness; 2015 (Reapproved 2021).

I. ASTM D2859 - Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials; 2016 (Reapproved 2021).

J. ASTM D3182 - Standard Practice for Rubber—Materials, Equipment, and Procedures for Mixing Standard Compounds and Preparing Standard Vulcanized Sheets; 2021.

K. ASTM D3183 - Standard Practice for Rubber—Preparation of Pieces for Test Purposes from Products; 2024.

L. ASTM D3389 - Standard Test Method for Coated Fabrics Abrasion Resistance (Rotary Platform Abrader); 2021.

M. ASTM D5572 - Standard Specification for Adhesives Used for Finger Joints in Nonstructural Lumber Products; 2021.

N. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

O. ASTM E303 - Standard Test Method for Measuring Surface Frictional Properties Using the British Pendulum Tester; 2022.

P. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2023.

Q. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

1.04 QUALITY ASSURANCE

A. Installer Qualifications
   1. Firm experienced in the flooring field and approved by the flooring manufacturer.
   2. Must have completed a minimum of three projects of similar magnitude and complexity.

B. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.
   1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

1.05 SUBMITTALS

A. Product Data: Submit manufacturer's product data that includes Physical Properties and installation instructions.

B. Color Selection Chart: Submit to Architect for selection. Submit actual sample of color material if so requested by Architect.

C. Samples
   1. Tiles: Submit full sized samples of each type, color and pattern required to illustrate the full range of color variations.
   2. Sheet Flooring: Manufacturer’s standard sample size, but not less than 9” x 9” of each type, color and pattern required to illustrate the full range of color variations.

D. Maintenance Literature: Submit three copies of manufacturer's recommended maintenance instructions.

E. Extra Stock
   1. Tiles: Furnish 2% of the total quantity (but not less than 2 full sealed cartons) of each type, pattern and color. Provide 5% of colors with less than 5000 sq feet (5.38213 sq cm). Properly package and identify each material.
   2. Sheet Flooring: Furnish 10 linear feet in roll form for each 500 linear feet or fraction thereof, of each product, color and pattern. Package each roll with protective covering and identification labels describing contents.

F. Sustainable Design Documentation Submittals: Comply with Section 01 81 13.
   1. VOC Limits: Include documentation verifying product Low Emitting Material Building Product Disclosures and Optimization.

1.06 DELIVERY, STORAGE AND HANDLING

A. Do not deliver materials until masonry and painting work is completed and all overhead mechanical and electrical work is installed.

B. Maintain room temperatures at minimum 55 degrees Fahrenheit (12.78 degrees Celsius). in storage areas and during installation.

1.07 JOB CONDITIONS

A. Proper Surfaces
   1. Even, sound, thoroughly clean and dry and free of all defects that might adversely affect the flooring work.
   2. Floor tolerances are specified in Section 03 30 00.
   3. All floors to receive resilient flooring shall be wet cured only. No curing compound permitted.

B. Related Work: Work which passes through, beneath or behind flooring must be completed prior to starting any flooring work.

C. Temperature Requirements
   1. Temporary Heat: Provide as required to maintain the minimum temperature during flooring installation and for at least one week after installation.
   2. Minimum Temperature: 70o F for a minimum two weeks prior to and during application.

3. Humidity: Do not apply flooring when relative humidity exceeds 70% or to damp or wet surfaces.

D. Ventilation: Provide adequate ventilation to prevent accumulation of hazardous fumes during application of solvent-based products in enclosed spaces, and maintain until flooring and finish has cured.

PART 2 PRODUCTS

2.01 RUBBER FLOORING TILES

A. Material: Interlocking EPDM rubber tiles.

B. Tiles
1. Edge type: Interlocking
2. Size: 24” x 24”
3. Thickness: 1-3/4”
4. Colors: As selected by Architect
5. Physical properties shall conform to the requirements of the following minimum criteria:

PROPERTY	VALUE	TEST PROCEDURES
Slip Resistance	Dry 102; Wet 62	ASTM E303
Slip Resistance	Dry .81; Wet .82	ASTM D2047
Compression Deflection	29.5 psi to 25% compression	ASTM D1667
Compression Set	4.37% Permanent Set	ASTM D395
Tensile Strength	107 psi	ASTM D412
Elongation at Break	165%	ASTM D412
Tear Strength	33.1 lbs/inch	ASTM D624
Wear Surface Density	>60 lbs.CF	
Burning Pill Test	Pass	ASTM D2859

C. Manufacturer
1. Basis of Design: Specifications and drawings are based on Premium Series Flooring manufactured by DURAFLEX.
2. Other Acceptable Manufacturers: Products manufactured by other rubber sports flooring manufacturers are acceptable providing they meet the requirements specified herein and are an acceptable color match as approved by the Architect. Products should be submitted to the Architect during bidding for inclusion by an Addendum.

2.02 RUBBER FLOORING TILES

A. Material: Single ply, non-laminated from recycled SBR tire rubber with EPDM reprocessed color flecks.

B. Physical Properties
1. Tested in accordance with ASTM D3182 , Standard Practice for Rubber Materials, Equipment and procedures for mixing standard compounds and preparing standard vulcanized sheets.
2. Preparation of pieces for test from other than standard vulcanized sheets are in accordance with ASTM D3183 ASTM D3183 standard recommended practice.
3. Test Data
   a. Tensile Strength, PSI - ASTM D412: Minimum 200.
   b. Flexibility – ASTM F137: Pass ¼” mandrel
   c. Coefficient of Friction – ASTM D2047: ???0.9
   d. Thermal Conductivity - ASTM C518: 0.445 (0.445)-in/hr-ft2-oF

C. Flammability
1. Fire Resistance - ASTM E84 (Flooring) Critical Radiant Flux: 0.31 (Type 2).

D. Manufacturer

1. Manufacturer: Specifications and drawings are based on EcoEarth, EcoStone and EcoRock as manufactured by ECO SURFACES.
2. Other Acceptable Manufacturers: Products manufactured by CAPRI CORK RETIRE COLLECTION or CERES NATURAL FLOORS are acceptable providing they meet the requirements specified herein and are an acceptable match as approved by the Architect. Product should be submitted to the Architect during bidding for inclusion by an Addendum.

2.03 RUBBER FLOORING TILES

A. Description: 1" thick rubber modular, square edge tiles; approximately 24” x 24”.
   1. Color: As selected by Architect.

B. Physical Properties
   1. Tear Resistance - ASTM D624, Die C: 13.13 KN/M.
   2. Abrasion Testing – ASTM D3389, Taber Abrader, method B, 2000 cycles, H-22 wheel: 0.20 loss/revolution.
   3. Tensile Strength, DIN 18035 Part 6: 1.43 N/mm2.
   4. Elongation at Break – DIN 18035 Part 6: 112%.
   5. Coefficient of Friction – DIN 18035 Part 6: New Dry 0.15; New Wet 0.23; Aged 42 Days Dry 0.54; Aged 42 Days Wet 0.76.

C. Flammability – ASTM D2859 Burning Pill Test: Passed.

D. Adhesive: Type as recommended by flooring manufacturer for concrete substrate.

E. Manufacturer
   1. Basis of Design: Specifications and drawings are based on Infinity Flooring manufactured by INFINITY PERFORMANCE INC.
      a. Provide 4” wide transition strip at wall tile. Strip to taper from 1” tile thickness to approximately 3/8” thick at wall surface.
   2. Other Acceptable Manufacturers: Rubber tiles manufactured by other manufacturers will be considered if materials meet the requirements of the Basis of Design and the size and color are an acceptable match as approved by the Architect prior to bid opening. These additionally approved manufacturers will be included by Addendum. An unacceptable pattern or color match is reason for disapproval of product and manufacturer. No substitutions will be considered after bid opening.

2.04 RUBBER SHEET FLOORING

A. Square edge, polymeric bound recycled rubber with EPDM colored granules; rolled goods; 4’ wide; 8mm thick.
   1. Elongation at Break: 118%.
   2. Colors: As selected by Architect

B. Manufacturer
   1. Basis of Design: Specifications and drawings are based on Elastiroll manufactured by CONNOR.
   2. Other Acceptable Manufacturers: Products manufactured by other rubber sports flooring manufacturers are acceptable providing they meet the requirements specified herein and are an acceptable color match as approved by the Architect. Products should be submitted to the Architect during bidding for inclusion by an Addendum.

2.05 RUBBER SHEET FLOORING

A. Type: 3/8" to 1/2" thick rubber rolled goods x 5' to 6' widths.
   1. Texture and Color: As selected by Architect.

B. Material: Homogeneous, non-layered rubber consisting of a base of natural rubber and synthetic rubbers vulcanized with mineral aggregates, stabilizing agents and pigmentation.

C. Physical Properties

1. Tested in accordance with ASTM D3182, Standard Practice for Rubber Materials, Equipment and procedures for mixing standard compounds and preparing standard vulcanized sheets.
2. Preparation of pieces for test from other than standard vulcanized sheets are in accordance with ASTM D3183 standard recommended practice.
3. Test results are based on cured compound for comparison purposes. Actual finished resilient product will vary by approximately 50%.
4. Test Data
    a. Hardness, Shore A - ASTM D2240: 50 - 55.
    b. 100% Modulus, PSI - ASTM D412: Minimum 270.
    c. Tensile Strength, PSI - ASTM D412: Minimum 450.
    d. Elongation, % - ASTM D412: Minimum 340.
    e. Compression Set at 50% Recovery after 72 Hours - ASTM D395: 90 - 95%.
    f. Stain Resistant To: Commercial detergents, nitric acid, hydrochloric acid, mustard, ketchup, milk and coffee.

D. Flammability
1. Fire Resistance - ASTM E84 (Flooring) Critical Radiant Flux: 0.31 (Type 2).
2. Comply with the Ohio Building Code restricting flame spread, smoke developed and fuel contributed.

E. Adhesive: Type as recommended by flooring manufacturer for concrete substrate.

F. Manufacturer
1. Basis of Design: Specifications and drawings are based on Ramflex manufactured by MONDO RUBBER INTERNATIONAL.
2. Other Acceptable manufacturers: Products by the following manufacturers are acceptable providing they meet the requirements specified herein.
    a. ROBBINS
    b. CONNER

2.06 ACCESSORIES

A. Concrete Slab Prime: Non-staining type, compatible with adhesive, as recommended by flooring manufacturer.
1. Moisture Emissions Sealer: Type specifically formulated for moisture emission control.

B. Leveling Compound: Non-staining latex modified, Portland cement based type, compatible with flooring, as provided or recommended by the flooring manufacturer.

C. Adhesives: Water resistant, stabilized type as recommended by the resilient flooring and base manufacturer to suit material and substrate conditions.
1. Low-VOC, FS MMM-A-125C, Type II, water- and mold-resistant. Use ASTM D5572, dry-use type for laminated and finger-jointed members, certified in accordance with ASTM C557.

PART 3 EXECUTION

3.01 INSPECTION

A. Examine substrates and installation condition. Do not proceed with flooring work until unsatisfactory conditions have been corrected.

B. Subfloor surfaces shall be smooth, level, at the required finish elevation, and within the tolerances specified in Section 03 30 00.

C. Installation constitutes acceptance of existing conditions and responsibility for satisfactory performance.

3.02 SUBSTRATE PREPARATION

A. Prepare substrates according to floor manufacturer's written instructions to ensure adhesion of flooring products.

B. Concrete Substrates
   1. Verify that substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
   2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by floor tile manufacturer. Do not use solvents.
   3. Perform moisture and pH tests recommended by flooring manufacturer. Proceed with installation only after satisfying manufacturer’s recommendations for test results.
   4. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install flooring until it is the same temperature as the space where it is to be installed.

D. Broom or vacuum clean substrates to be covered immediately before product installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, or dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.03 INSTALLATION

A. Install flooring in accordance with manufacturer's instructions and recommendations.

3.04 CLEANING AND PROTECTION

A. Protect resilient flooring from damage and wear during construction operations. Where temporary cover is required for this purpose, comply with manufacturer's recommendations for protective materials and the method of their application. Remove temporary covering just prior to cleaning for final inspection.

B. Clean flooring just prior to final inspections. Use materials and procedures recommended by flooring manufacturer.

END OF SECTION 09 65 66

SECTION 10 22 21
DEMOUNTABLE GLASS PARTITIONS

PART 1 GENERAL

1.01 SUMMARY

A. Section includes unitized, movable partition system consisting of aluminum framed glass fixed panels and sliding glass doors.

1.02 REFERENCE STANDARDS

A. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2023d.

C. ASTM E90 - Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements; 2023.

D. ASTM E413 - Classification for Rating Sound Insulation; 2022.

E. BIFMA X5.6 - Panel Systems - Tests; 2016 (Reapproved 2021).

F. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.03 SYSTEM DESCRIPTION

A. Unitized Movable Partition System
   1. Product of manufacturer regularly engaged in Work of this Section.
   2. Unitized, full-height, movable partition system for interior use, designed to permit relocation, reconfiguration, and reuse of all parts.
   3. Non-progressive; allow for removal and reinstallation of panels from either side of partition and at any point in a given panel run without disturbance of adjacent panels.
   4. Panels, corner posts and finished end conditions to be joined with single flush panel connector.
   5. Glass Module sizes available from 6” to 60” increments.
   6. Erected and disassembled in a manner to prevent damage to adjacent building surfaces and elements, including floors, walls, ceilings, columns, and window mullions.
   7. All panels of like module, regardless of type, to be interchangeable, utilizing the same panel connector post cap.
   8. Panel connection system to accommodate addition of slotted standards and brackets for mounting of systems furniture wall units produced by various manufacturers.
   9. Single sliding barn style aluminum framed glass doors Door units interchangeable with like sized panels using same connection method as panels.
   10. Panels complete with unitized base that is factory installed to eliminate loose hardware on floor when panels are moved.
   11. Floor Gripper Plates designed as an integral part of floor channel, not requiring activation or adjustment upon panel installation. Plates allow for left or right adjustment of each panel without lifting panel from the floor.
   12. System components constructed and finished at factory, not requiring additional construction or finishing in the field.
   13. Spring loaded wall starter channel units to be complete with integrated gasket to ensure tight fit for sound and light seal.

B. Performance Requirements
   1. Acoustical Attenuation: Overall STC rating of 38 when tested in accordance with ASTM E90 and classified in accordance with ASTM E413.
   2. Vertical Load Capacity: Comply with ANSI/BIFMA X5.6.
   3. Lateral Load Capacity: Wall panels to comply with partition design requirements for lateral load resistance as specified by the Uniform Building Code (Sections 1611.5 & 1632), the BOCA National Building Code Sections 1604.5.6, 1606.9, & 1610.6), the Standard

Building Code (Sections 1604.5, 1607.6, & 1610.1), or the International Building Code (Sections 1604.3, 1607.13, & 1621). Glass framing to comply with requirements of Chapter 24 of each of the codes listed and with part 9 of the NBCC 1995.

4. Flame Spread Rating: Maximum 25 when tested in accordance with ASTM E84.

1.04 SUBMITTALS

A. Submit under the provisions of Division 01.

B. Shop Drawings: Include panel layout in plan and elevation, opening locations, special panels, conditions at adjacent construction, and accessories.

C. Product Data: Provide data on panel system, components, and accessories.

D. Samples: Submit 2 samples 12” long x full width indicating trim finish.

E. Manufacturers Installation Instruction: Indicate procedures, special conditions, and protection.

1.05 QUALITY ASSURANCE

A. Installer Qualifications: Installation performed by factory personnel or others authorized by partition system manufacturer.

B. Conform to ICC A117.1 for mounting heights and location of components and NBCC 1995 Section 3.8.

1.06 PROJECT CONDITIONS

A. Do not begin installation until site conditions provide complete protection from weather and environmental conditions in building are approximately equivalent to those which will exist after installation:

1. Temperature: 60 to 85 degrees F.
2. Relative Humidity: Maximum 70 percent.

1.07 WARRANTY

A. Provide manufacturers warranty against defects in materials and workmanship for a period of 10 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design: d HIVE Seamless Connections

2.02 MATERIALS

A. Aluminum Extrusions: Architectural Grade aluminum prime billet. Provide manufacturer's standard sizes, shapes and profiles for members of the systems and components.

1. Aluminum alloy and temper as recommended by manufacturer to comply with requirements of performance, fabrication, application of finish and control of color. Comply with ASTM B221 for extruded shapes.
2. Provide all miscellaneous extrusions to complete the sliding door and fixed sidelight assemblies.

B. Fasteners: Aluminum or non-magnetic stainless steel. Provide concealed fasteners wherever possible. Provide Phillips flat-head machine screws where exposed. Finish exposed fasteners to match aluminum work. Other concealed fasteners may be zinc plated or cadmium plated steel.

C. Glass and Glazing: Provide 1/4" thick tempered glass materials complying with Section 08 81 00 requirements. Glazing gaskets shall be manufacturer's standard vinyl extrusion.

2.03 DOORS AND HARDWARE

A. Basis of Design Sliding Door: dHIVE 65A Frameless

B. Basis of Design Swing Door: dHIVE 33A Frameless

C. Prepare and reinforce doors for hardware. Factory fit and install door pulls on each side of door.

1. Pull (Slide) Handles: 1” diameter brass, 8” center-to-center mount, 2-1/2” clearance. 630 finish.
2. Sliding Door Guide: Manufactures standard.
3. Seals and Stops: Manufactures standard.
4. Hinges: Manufactures standard.

2.04 SIZES

A. Panel and door sizes and configurations as indicated on the drawings.

PART 3 PRODUCT

3.01 INSTALLATION

A. General
   1. Do not install component parts which are observed to be defective, including warped, bowed, dented, abraded and broken members. Remove and replace members which have been damaged during installation or thereafter before time of acceptance.
   2. Do not cut or trim component parts during erection, in a manner which would damage finish, decrease strength, or result in a visual imperfection or a failure in performance of the work.

B. Install all components in accordance with the manufacturer's installation instructions and recommendations.

C. Install component parts level, plumb, true to line and with uniform joints and reveals. Secure to structure with non-staining and non-corrosive shims, anchors, fasteners, spacers and fillers.

D. Install glass and glazing, in accordance with Section 08 81 00 and the manufacturer's requirements.

E. Adjust operating hardware to function properly, without binding and to provide tight proper fit at contact points.

3.02 CLEANING AND PROTECTION

A. Protect glass from breakage immediately upon installation, by attachment of streamers to framing held away from glass. Do not apply markings of any type to surfaces of glass.

B. Immediately before acceptance of the work, clean the aluminum sliding glass doors thoroughly. Demonstrate proper cleaning methods to Owner's maintenance personnel during final cleaning. Prepare a "Cleaning and Maintenance Manual" listing types of cleaning compounds, cleaning methods and glazing materials used for cleaning, repair and maintenance of work and turn over to Owner upon acceptance of the work.

END OF SECTION 10 22 21

This page intentionally left blank

SECTION 10 28 13
TOILET ACCESSORIES

PART 1 GENERAL

1.01 SCOPE

A. This section covers all toilet accessories. Extent of each type of accessory is indicated on the drawing and specified herein.

B. Included are accessories for:
   1. Public – Clubhouse Toilet Rooms
      a. Framed Mirror
      b. Soap Dispenser
      c. Paper Towel Dispenser
      d. Handicap Grab Bars
      e. Toilet Paper Holder
      f. Sanitary Napkin Disposal
      g. Robe Hook
      h. Infant Changing Table
   2. Public – Clubhouse Janitor's Room
      a. Mop Strip
      b. Janitors Closet Shelf
   3. Residential - Typical Units
      a. Lighted Mirrors
      b. Towel Ring
      c. Towel Bar
      d. Robe Hook
      e. Shower Curtain Rod
      f. Toilet Paper Holder
   4. Residential - Type A Units
      a. Lighted Mirrors
      b. Towel Ring
      c. Towel Bar
      d. Robe Hook
      e. Shower Curtain Rod
      f. Handicap Grab Bars
      g. Toilet Paper Holder

   ~~Toilet rooms.~~

1.02 WORK SPECIFIED IN OTHER SECTION

A. Unframed Mirrors: Section 08 81 00.

1.03 REFERENCED STANDARDS

A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

B. ASTM F446 - Standard Consumer Safety Specification for Grab Bars and Accessories Installed in the Bathing Area; 2019.

C. ICC A117.1 - Accessible and Usable Buildings and Facilities; 2017.

1.04 QUALITY ASSURANCE

A. Provide each type of products of one manufacturer. Provide locks with same keying for all accessory units in the project.

B. Stamped names or labels on exposed faces of units not permitted.

C. Follow ADA Standards and ICC A117.1 as required by code, and as indicated in drawings.

1.05 SUBMITTALS

A. Submit manufacturer's product data and installation instructions for each type of toilet accessory required.

1.06 DELIVERY, STORAGE AND HANDLING

A. Delivery accessory items in manufacturer's original, unopened packaging.

B. Store and handle materials in accordance with manufacturer's recommendations. Protect against soiling, damage and wetting.

1.07 PROJECT CONDITIONS

A. Furnish anchoring devices and inserts for installation of toilet accessories. Coordinate delivery of items which must be set or built into other work.

B. Provide setting drawings, templates and instructions for installation of anchorage devices.

1.08 WARRANTY

A. Submit mirror manufacturer's written ten year warranty against silver spoilage.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Where a manufacturer's product is specified as a Basis of Design, equal products as manufactured by BOBRICK, BRADLEY, AJW, AMERICAN SPECIALTIES, may be used provided the product meets the requirements of the specifications, unless otherwise indicated.

2.02 ITEMS

A. PUBLIC ITEMS
   1. Framed Mirror
      a. Standard Framed Type: BOBRICK B-290.
         1) Frame: Stainless steel angle, theft resistant concealed fasteners.
         2) Glass: 1/4” select float glass
         3) Size: 18" wide x 36" high, unless otherwise indicated or scheduled on the drawings.
   2. Soap Dispenser - ADA compliant Tank Type: BOBRICK 818615
      a. Type: Surface mounted, liquid dispenser.
      b. Material: Stainless Steel, 20 ga., type 316.
      c. Finish: Satin.
      d. Capacity: 40 oz.
   3. Paper Towel Dispenser: BOBRICK-262
   4. Type: Surface mount with lockable hinged front cover.
      a. Capacity: 525 multi or 400 C-fold towels.
      b. Material: Stainless steel, 22 ga., type 304.
      c. Finish: Satin.
   5. Handicap Grab Bars: BRADLEY Series 812
      a. Diameter: 1-1/2 inch.
      b. Material: Stainless steel, standard satin finish.
      c. Fasteners: Concealed.
      d. Style and Length
         1) As indicated; where not indicated provide 42” long horizontal and 18” vertical bars.
         2) Provide both horizontal and vertical bars in conformance with ANSI A117.1, 604, 608 and 609.
   6. Toilet Paper Holder: ADA compliant, open controlled.
      a. Double Roll: BOBRICK B-265.
         1) Type: Surface Mount.
         2) Finish: Chrome plated

7. Sanitary Napkin Disposal: BOBRICK B-270.
   a. Type: Surface mounted on wall. Cover lifts up for disposal of sanitary napkins and for servicing container.
   b. Material: Stainless steel, satin finish.
8. Robe Hook: BOBRICK B-211
   a. Type: Wall mounted, exposed fastener.
   b. Material: Brass cast with satin nickel-plated finish.
9. Baby Changing Station
   a. Description: Surface mount, fold down type. Injection-molded polyethylene changing surface with safety strap. Folds up flat against wall when not in use. Provide with integral sanitary liner holder.
      1) Sanitary Liners: Provide 2 cases (approximately 2,800) disposable liners.
   b. Manufacturer Koala Kare Horizontal Baby Changing Station KB300-01 Grey by KOALA CORPORATION or equal by other manufacturers listed in Article 2.01.
10. Mop Strip: BOBRICK B-223.
    a. Type: Wall mounted, exposed fastener.
    b. Material: Stainless steel, satin finish back plate with three spring activated rubber cam mop holders.
    c. Location: Provide at Janitors sink. Coordinate height with Architect.
11. Janitor Closet Shelf: BOBRICK B-295
    a. Type: Wall mounted, exposed fastener.
    b. Material: Stainless steel with satin finish.
    c. Location: Provide at Janitors Closet. Coordinate height with Architect.

B. RESIDENTIAL ITEMS
1. Lighted Mirror
   a. Specified by Electrical
2. Towel Ring: MOEN Mason YB8086
   a. Finish: Chrome
   b. Height: 7.18 Inches
3. Towel Bar: MOEN Mason YB8098 and YB8094
   a. Finish: Chrome
   b. Size: 18”, 24” as indicated.
4. Robe Hook: MOEN Mason YB8003
   a. Finish: Chrome
   b. Type: Concealed attached wall mounted
5. Shower Curtain Rod: MOEN CSR2165
   a. Location: All bath fixtures.
6. Handicap Bars: MOEN Home Care 8900
   a. Diameter: 1-1/2 inch.
   b. Material: Stainless steel, standard satin finish.
   c. Fasteners: Concealed.
   d. Style and Length
      1) As indicated; where not indicated provide 42” long horizontal and 18” vertical bars.
      2) Provide both horizontal and vertical bars in conformance with ANSI A117.1, 604, 608 and 609.
7. Toilet Paper Holder: MOEN Mason YB8099
   a. Single Roll – post-mounted
   b. Finish: Chrome

~~Double Roll: ASI Model 74022 SSM.~~
~~Type: Surface Mount.~~
~~Finish: Satin stainless steel.~~
~~Type: Surface mounted, liquid dispenser.~~

~~Material: Stainless Steel, 20 ga., type 304.~~
~~Finish: Satin.~~
~~Capacity: 40 oz.~~
~~Diameter: 1-1/2 inch.~~
~~Material: Stainless steel, standard satin finish.~~
~~Fasteners: Concealed.~~
~~Style and Length~~
~~As indicated; where not indicated provide 42" long horizontal and 18" vertical bars.~~
~~Provide both horizontal and vertical bars in conformance with ICC A117.1, 604, 608 and 609.~~
~~Provide grab bars in conformance with ICC A117.1, 607 for bathtubs.~~
~~Type: Surface mount with lockable hinged front cover.~~
~~Capacity: 500 multi or 300 C-fold towels.~~
~~Material: Stainless steel, 22 ga., type 304.~~
~~Finish: Satin.~~
~~Type: Surface mounted on toilet partition. Hinged bottom for disposable liner removal.~~
~~Material: Stainless steel, satin finish.~~
~~Type: Wall mounted, concealed fastener.~~
~~Material: Chrome plated brass. Satin chrome finish.~~
~~Standard Framed Type: BRADLEY Model 780.~~
~~Frame: Stainless steel angle, theft resistant concealed fasteners.~~
~~Glass: Tempered 1/4" thick with full silver coating, copper coating and organic coating. Warranted by manufacturer 10 years against silver spoilage.~~
~~Size: 18" wide x 36" high, unless otherwise indicated or scheduled on the drawings.~~
~~Unframed Type: Section 08 81 00.~~

C. Sliding Shower Door: STERLING; Model 5960-59 framed shower door.
~~Description: Surface mount, fold down type. Concave molded polyethylene changing surface with safety strap. Folds up flat against wall when not in use. Provide with integral sanitary liner holder.~~
~~Sanitary Liners: Provide 2 cases (approximately 2,800) disposable liners.~~
~~Manufacturer Koala Bear Kare Horizontal Baby Changing Station by KOALA CORPORATION or equal by BROCAR PRODUCTS, FOUR D, INC. or other manufacturers listed in Article 2.01.~~

2.03 FABRICATION

A. Edges: All throat openings and similar type exposed edges of towel dispensers, seat cover dispensers, waste receptacles and similar type accessories to be hemmed or sufficiently rounded to preclude accidental cuts to users.

B. Miters: Provide one-piece seamless beveled or return flange; open miters, if not welded, must be worked to eliminate sharp edges; edges which may cut or snag are not acceptable.

2.04 SCHEDULE OF ACCESSORIES

A. Location, quantity and mounting height of accessories as indicated on drawings.

B. Keyed Units: Key all similar types of units alike. Provide two keys per unit.

PART 3 EXECUTION

3.01 INSPECTION

A. Installer: Examine substrates, previously installed inserts anchorages necessary for mounting of accessories and other conditions under which installation is to occur.
1. Notify Contractor in writing of conditions detrimental to proper and time completion of the work.
2. Do not proceed with work until satisfactory conditions have been corrected.

3.02 INSTALLATION

A. Install in accordance with manufacturer's instructions using fasteners which are appropriate for substrate and recommended by manufacturer of unit. Install units and plumb and level, firmly anchored in positions indicated.

B. Provide concealed fasteners wherever possible of types required for substrate conditions encountered.
   1. Metal Stud and Gypsum Board: Screws or bolts anchored to 16 gage (minimum) metal plate blocking or wood blocking located within stud space. See Section 06 10 00 Rough Carpentry.
   2. Concrete Masonry Units: Integral fasteners (i.e. expansion anchors, etc.).
   3. Metal Lath and Plaster and Studs: Toggle bolts.

C. Lead, plastic or fiber plugs are not acceptable.

D. Grab Bars: Coordinate grab bar locations as to right hand or left hand installations with field conditions.
   1. Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F446.

E. Upon completion of installation, adjust each accessory unit for proper operation and clean exposed surfaces. Turn over keys to designated Owner's personnel.

END OF SECTION 10 28 13

This page intentionally left blank

SECTION 11 31 00
RESIDENTIAL APPLIANCES

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide appliances where indicated on drawings consisting of:
   1. Public - Clubhouse
      a. Delivery Refrigerator
      b. Under Counter Refrigerator
      c. Countertop Microwave
      d. Coffee Machine (Owner-provided)
   2. Residential - Typical Units
      a. Refrigerator/freezer
      b. Dishwasher
      c. Range/oven
      d. Washer (Tenant-provided)
      e. Dryer (Tenant-provided)
      f. Range hood
      g. Microwave

1.02 RELATED SECTIONS

A. Electrical Rough-In: Included under Electrical Contract, Division 26.

1.03 SUBMITTALS

A. Manufacturer's Product Data: Submit for all items in accordance with the General Conditions and Section 01 33 23.

B. Energy Star Compliant Certificates.

PART 2 PRODUCTS

2.01 ITEMS

A. Finishes: All residential appliances and other appliances to be stainless steel.

B. Refrigerators in ANSI Type A and UFAS units must be vertical side-by-side type; or of the over under type and meet the following requirements: Have at least 50 percent of the freezer space below 54 inches (1371.6 mm) AFF; and, have 100 percent of the freezer controls below 54 inches AFF. Freezers with less than 100 percent of the storage within an accessible reach range must be self-defrosting.

C. Manufacturers listed are to establish a standard of acceptable quality and basis of design. Dimensions of basis of design products are critical for compliance with ADA/ANSI requirements and casework layouts as indicated in drawings. Except where no substitution is indicated, similar products by other manufacturers listed below are acceptable provided they are an acceptable match in performance, characteristics and exact dimensions. All proposed substitutions to be approved by Architect.
   1. KENMORE
   2. KITCHEN AID
   3. AMANA
   4. GENERAL ELECTRIC - (basis of design, UNO)
   5. MAYTAG
   6. FRIGIDAIRE
   7. WHIRLPOOL
   8. SAMSUNG

D. Clubhouse Appliance Schedule

UNIT	MFR	MODEL #	FINISH	ADA	ENERGY STAR	SIZE/TYPE
REF.	Premium LEVELLA	PRN165DX	Silver	Ukn	Yes	Parcel Room, 2-Glass Swing Door Merchandiser, 16.0 cu. ft.
REF.	GE	GVS04BQN	Stainless Steel	Yes	No	Clubhouse Kitchenette,Under counter,Glass door
MICRO.	GE	PCST22U1WSS	Stainless Steel	Yes	N/A	2.2 cu. ft., Countertop
COFFEE MACHINE	N/A	N/A	N/A	N/A	N/A	Clubhouse Kitchenette, countertop,Owner-provided

1. ADA-compliant controls required
2. ADA-compliant when installed with controls <48" max height and proper parallel-approach clearances.

E. Residential Units - Typical

UNIT	MFR	MODEL #	FINISH	ADA	ENERGY STAR	SIZE/TYPE
REF. /FRZR.	GE	GTE18GSNRSS (1 BR / 2 BR)	SS	N/A	Yes	Top-freezer, 17.5 cu. ft., No icemaker kit
		GIE21GSHSS(3 BR)	SS	N/A	Yes	Top-freezer, 21.1 cu. ft., No icemaker kit
DISH WASHER	GE	GDT565HSYSS	SS	N/A	Yes	24” Built-in
RANGE	GE	GRF400SVSS	SS	N/A	N/A	5.3 cu. ft., Electric, Free-standing
RANGE HOOD	GE	JVX5305SJSS	SS	N/A	Yes	30” Under-cabinet, convertible venting options
WASH.	N/A	N/A	N/A	N/A	N/A	Tenant-provided equipment
DRY.	N/A	N/A	N/A	N/A	N/A	Tenant-provided equipment

SS = Stainless Steel

F. Residential - Typical Type A Unit

UNIT	MFR	MODEL #	FINISH	ADA	ENERGY STAR	SIZE/TYPE
REF. /FRZR.	GE	GTE17GSNRSS (1 BR / 2 BR)GIE21GSHSS (3 BR)	SS	Yes	Yes	Top-freezer, 16.6 cu. ft., No icemaker kit, upfront controls
			SS	Yes	Yes	Top-freezer, 21.1 cu. ft., No icemaker kit, upfront controls
DISH WASHER	GE	GDT225SSLSS	SS	Yes	Yes	24” Built-in
RANGE	GE	JD630STSS	SS	Yes	N/A	4.4 cu. ft., Drop-in, Electric, front controls, self-clean,

						install flush with 34” counter height
RANGE HOOD	GE	JVX5305SJSS	SS	Yes	Yes	30” Under-cabinet, convertible venting options, Install switch within accessible reach range
WASH.	N/A	N/A	N/A	N/A	N/A	Tenant-provided equipment
DRY.	N/A	N/A	N/A	N/A	N/A	Tenant-provided equipment

SS = Stainless Steel

1. ADA-Compliant Controls Required For Type A Units.
2. ADA-Compliant When Installed With Controls <48" Max Height And Proper Parallel-Approach Clearances.

~~Refrigerator/Freezer:~~

~~Provide as indicated in drawings / schedules.~~

~~Range/Oven~~

~~Provide as indicated in drawings / schedules.~~

~~Range Hoods~~

~~Provide as indicated in drawings / schedules.~~

~~Disposal:~~

~~Provide as indicated in drawings / schedules.~~

~~Washer:~~

~~Provide as indicated in drawings / schedules.~~

~~Dryer:~~

~~Provide as indicated in drawings / schedules.~~

2.02 ACCESSORIES

A. 3 ft. pigtail cord and plug for ranges, dishwashers and food waste disposals.

B. Anti-tip brackets for all free-standing ranges.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install all items in accordance with manufacturer's instructions.

B. Provide all required accessories and fasteners to ensure a complete installation.

END OF SECTION 11 31 00

This page intentionally left blank

SECTION 12 21 14
VERTICAL BLINDS

PART 1 GENERAL

1.01 SCOPE OF WORK VERIFY

A. Provide and install materials, and all related accessories required for complete vertical installation on all windows indicated on drawings to receive vertical blinds.

1.02 WORK SPECIFIED IN OTHER SECTIONS

A. Wood Blocking: Section 06 10 00

1.03 REFERENCED STANDARDS

A. WCMA A100.1 - Standard for Safety of Window Covering Products; 2022.

1.04 SUBMITTALS

A. Product Data: Provide data indicating physical and dimensional characteristics and operating features.

B. Shop Drawings: Indicate opening sizes, tolerances required, method of attachment, clearances, and operation.

C. Samples: Submit two samples, minimum 18 inch long illustrating slat materials and finish, color, cord type and color.

1.05 PROJECT CONDITIONS

A. Coordinate the work with window installation and placement of concealed blocking to support blinds.

B. Store, handle, protect and install blinds in accordance with the manufacturer's instructions and recommendations.

C. Take field measurements to determine sizes required.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Subject to compliance with the specified requirements, provide one of the following:
1.

B. Substitutions: In accordance with Division 01.

2.02 BLINDS AND COMPONENTS

A. Wood Blinds:Head rail shall be of .0.022" thick sheet metal, 1 5/8" high x 2¼" wide with a U shaped channel, with 1/8" light-blocking lip on the bottom center line. Head rail shall have a grained, smooth-sanded 100% North American Basswood valance and shall be coated with a baked on finish.
   1. Head rail shall be of .0.022" thick sheet metal, 1 5/8" high x 2¼" wide with a U shaped channel, with 1/8" light-blocking lip on the bottom center line. Head rail shall have a grained, smooth-sanded 100% North American Basswood valance and shall be coated with a baked on finish.
   2. Tilter mechanism shall be of a worm and gear type enclosed in acetyl housing. Tilter shaft shall be clear polycarbonate and the gear shall be nylon. Tilter shall be a snap in component.
   3. Tilt Wand shall be electro-zinc coated steel measuring ¼" square.
   4. Cord Lock shall be snap in design and shall be securely attached to the head rail. It shall be a crash-proof type with sufficient sensitivity to lock slats at desired height upon release of cords. Cord separators shall prevent cords from twisting or tangling.
   5. Drum and cradle shall be provided for each ladder.
      a. Drums are made of high-strength thermoplastic, which securely anchors braided ladder or fabric tapes.

b. Cradles are made of low-friction polypropylene with metal lift cord rollers.

6. Installation brackets shall be a one-piece, .032” zinc-plated spring steel designed to minimize light gaps. A rivet-hinged locking front cover shall be incorporated for safety.
7. Intermediate brackets shall be of the same design as installation brackets. They shall be installed with blinds over 60” wide. Maximum spacing for intermediate brackets is 48”. Brackets shall be supplied as required.
8. Ladders (slat supports) shall be braided polyester yard, designed for maximum flexibility combined with minimum stretch and tensile strength of not less than 50 lbs. per cable. Horizontal components (rungs) shall consist of not less than two crossed cables inter-braided with vertical components.
9. Ladder shall support slats without visible distortion. Distance between slats shall not exceed 44mm.
10. Slats shall be of lineal grained and smooth sanded 100 percent North American basswood, kilned dried to 6 - 10 percent moisture content to reduce warping. Finish: PureGrain finish.
11. Bottom rail shall be 7/8” high x 2” wide wood in trapezoid shape to improve closure and finished to coordinate with slats.

B. Composite Wood Blinds:
1. Head rail shall be of .0.022” thick sheet metal, 1 5/8” high x 2¼” wide with a U shaped channel, with 1/8” light-blocking lip on the bottom center line. Head rail shall have a grained, smooth-sanded 100% North American Basswood valance and shall be coated with a baked on finish.
2. Tilter mechanism shall be of a worm and gear type enclosed in acetyl housing. Tilter shaft shall be clear polycarbonate and the gear shall be nylon. Tilter shall be a snap in component.
3. Tilt Wand shall be electro-zinc coated steel measuring ¼” square.
4. Cord Lock shall be snap in design and shall be securely attached to the head rail. It shall be a crash-proof type with sufficient sensitivity to lock slats at desired height upon release of cords. Cord separators shall prevent cords from twisting or tangling.
5. Drum and cradle shall be provided for each ladder.
   a. Drums are made of high-strength thermoplastic, which securely anchors braided ladder or fabric tapes.
   b. Cradles are made of low-friction polypropylene with metal lift cord rollers.
6. Installation brackets shall be a one-piece, .032” zinc-plated spring steel designed to minimize light gaps. A rivet-hinged locking front cover shall be incorporated for safety.
7. Intermediate brackets shall be of the same design as installation brackets. They shall be installed with blinds over 60” wide. Maximum spacing for intermediate brackets is 48”. Brackets shall be supplied as required.
8. Ladders (slat supports) shall be braided polyester yard, designed for maximum flexibility combined with minimum stretch and tensile strength of not less than 50 lbs. per cable. Horizontal components (rungs) shall consist of not less than two crossed cables inter-braided with vertical components.
9. Ladder shall support slats without visible distortion. Distance between slats shall not exceed 44mm.
10. Slats shall be of a blend of PVC polymers 2” wide x 1/8” thick with straight cut edges.
11. Bottom rail shall be 7/8” high x 2” wide wood in trapezoid shape to improve closure and coordinate with slats.

C. Head rail shall be of .050” thick anodized aluminum alloy 6063-T5 with a satin finish, 1 3/8” high x 1-15/16” wide with a U shaped channel.

D. Carriers shall be made of molded acetyl and traverse on self-lubricated wheels for smooth operation. Carriers shall be centrally located making the headrail reversible. Stems shall be made of clear, non-yellowing, UV-stabilized nylon and are impact-resistant. Carriers and stems shall be replaceable without demounting the headrail.

E. Rotation control shall consist of #10 nickel-plated steel bead chain and a dual rack and pinion gear system providing 180º direct rotation. The pinion rod shall be extruded aluminum 0.30" diameter. Standard E-Z Open™ feature will automatically rotate louvers to the open position when the traverse cord is operated.

F. Traversing control shall be a pantograph system made of hard-tempered, 18 gauge (0.046") plated steel, ensuring precise and proportional louver spacing. Traverse cord is #3 braided polyester with a fiberglass core, 0.094" diameter and is equipped with a cord weight and cord clip. The cord clip is anchored to the wall or window jamb during installation in accordance with CPSC recommendations.

G. Louvers shall be 3½" widths in PVC or NFPA 701 Fire Resistant fabric vanes.

H. Control Wand: Extruded solid plastic; hexagonal shape.
   1. Non-removable type.
   2. Length of window opening height less 3 inches.
   3. Color: clear.

I. Headrail Attachment: Wall brackets.

J. Accessory Hardware: Type recommended by blind manufacturer.

2.03 FABRICATION

A. Fabricate blinds to fit within openings with uniform edge clearance of 3/8 inch.

B. At openings requiring multiple blind units, provide separate blind assemblies with space of ¼" between blinds, located at window mullion centers.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install blinds in accordance with manufacturer's instructions and recommendations.

B. Tolerances
   1. Maximum Variation of Gap at Window Opening Perimeter: ¼:.
   2. Maximum Offset From Level: 1/8".

C. Replace any bent or damaged slats or other defective items prior to installation.

D. Install level and of proper length and width to fit all windows designated to be treated.

E. Adjust for smooth operation.

F. Clean blind surfaces just prior to occupancy.

END OF SECTION 12 21 14

This page intentionally left blank

SECTION 12 32 00
MANUFACTURED WOOD CASEWORK

PART 1 GENERAL

1.01 WORK INCLUDED

A. Provide kitchen, vanity, and wall cabinets as indicated.

1.02 RELATED SECTIONS

A. Countertops: Section 12 36 40.

1.03 REFERENCE STANDARDS

A. KCMA A161.1 - Performance and Construction Standard for Kitchen and Vanity Cabinets; 2017.

1.04 SUBMITTALS

A. Product Data: Submit manufacturer's/fabricator's data and installation instructions for each type of casework unit.

B. Samples: Submit samples of specified finishes.

C. Shop Drawings
   1. Submit shop drawings for casework showing plans, elevations, ends and cross sections.
   2. Show details and location of anchorages and fitting to floors, walls and base.
   3. Include layout of units with relation to surrounding walls, doors, windows and other building components.

1.05 QUALITY ASSURANCE

A. Fabricator qualifications: A firm specializing in the fabrication of millwork with a satisfactory record of performance on projects of comparable size and quality. Fabricator shall be acceptable to the Architect.

B. Installation: Performed only by experienced skilled finish carpenters.

C. Quality Grade: Materials and fabrication shall be "custom grade" in accordance with "Quality Standard Illustrated," of the AWI conforming to the following sections:
   1. Section 200: Plywood and particleboard.

D. Section 400: Casework.

1.06 REFERENCE

A. All manufactured factory-finished cabinets shall comply with ANSI/KCMA A161.1. All cabinets must bear the identification of the cabinet manufacturer. All cabinets to be NKCA certified and labeled, with labels in place at time of installation and inspection.

1.07 DELIVERY, STORAGE AND HANDLING

A. Protect casework during delivery, storage and handling to prevent damage, soiling and deterioration.

B. Do not deliver casework until concrete, masonry and other similar wet work has been completed and is thoroughly dry, outside door openings are permanently watertight, exterior windows are glazed and, in case of temperature dropping below 60 degrees Fahrenheit (15.56 degrees Celsius)., until temporary heating and ventilating systems are in operation.

C. Store casework in dry, well-ventilated spaces with constant minimum temperature of 60 degrees Fahrenheit (15.56 degrees Celsius)., and maximum relative humidity of 55%.

1.08 PROJECT CONDITIONS

A. Provide and maintain a constant temperature and humidity before, during and after installation as required to maintain optimum moisture content of installed materials.

B. Obtain measurements and verify dimensions and details before proceeding with finish carpentry.

PART 2 PRODUCTS

2.01 CABINETS

A. Manufacturer
   1. Basis of Design: Drawings and specifications are based on ADVANTA Extreme Series, Newbury
   2. Other manufacturers are acceptable for review after compliance with the project Substitution requirements. In addition, submittals requesting substitutions must also include a physical sample of similar casework types and material.

B. Provide complete factory assembled and finished components.
   1. Provide wall and base cabinets with standard accessories.
   2. Provide matching filler panels and end panels where indicated or required.

C. General: All composite wood products will be compliant with California 93120.

D. Materials
   1. Wall and base cabinets shall be of same construction; outside appearance must be the same; construction type must have face frames.
   2. Provide solid lumber and exterior grade plywood with veneer core for all cabinets.
   3. All parts touching floor to be pressure treated solid lumber.
   4. Provide all fillers, moldings and trims required to assure a neat, accurate job fit.
   5. Composite Wood Products that Emit Low or No Formaldehyde:

E. Components and Fabrication
   1. Face Frames: 3/4" thick kiln dried solid hardwood; stiles and rails to be 1-1/2" wide; mullions to be 3" wide. Dadoe all stiles and top and bottom rail to receive end panels and top and bottom floors.
   2. End Panels: 1/4" thick; dadoed a minimum 1/4" to receive shelves, tops and bottoms. Let ends into 1/4" deep dado in face frames. Stop base cabinet end panels 4-1/2" above floor and support on 3/4" x 4-1/2 pressure treated solid lumber.
   3. Backs: 1/4" hardboard.
   4. Cleats: 1/2" thick x 3" high industrial grade wood based composite panel.
   5. Shelves and Wall Cabinet Tops and Bottoms: ½" hardwood plywood and hardwood edges, fixed and datoed into end panels.
   6. Doors: Style as selected by Architect; 3/4" thick, solid hardwood.
      a. Fill and sand edges smooth prior to finishing.
   7. Base Bottoms: 1/2" thick exterior 5-ply softwood plywood. Let bottoms into end panels front rails and cleats supported by 3/4" thick pressure treated solid lumber braces speced 24" on center running front to rear of cabinet.
   8. Toe Kicks: 3/4" solid lumber.
   9. Drawers: 11/16" thick solid pine lumber four sided drawer box. Drawer bottoms are nominal 1/4" (6mm) thick hardwood plywood dadoed into all four drawer box sides.
   10. Hardware
      a. Drawer Slides: 75 pound capacity, metal side rails. LESCOA MANUFACTURING Model HA7000, ACCURIDE, AMEROCK.
      b. Hinges: AMERROCK Model D7579-BB, BLUM, GRASS self-closing, wrap around type.

F. Adhesive: Low-VOC, FS MMM-A-125C, Type II, water- and mold-resistant.

G. Finish
   1. Factory finish consisting of stain, sealer and top coats, lightly sanded between applications. Provide sealer and top coats oven dried.
   2. Cabinet Colors: As selected by Architect from manufacturer's standard colors.

PART 3 EXECUTION

3.01 INSTALLATION

A. General
   1. Install plumb, level, true and straight with no distortions so that doors and drawers will fit openings properly and be accurately aligned.
   2. Shim as required using concealed shims.
   3. Where casework abuts other finished work, scribe and apply filler strips for accurate fit with concealed fasteners.
   4. Where possible, assemble units into one integral unit with joints flush, tight and uniform. Align similar adjoining doors and drawers to a tolerance of 1/16".
   5. Anchor cabinet units securely in place with concealed (when doors and drawers are closed) fasteners, anchored into structural support members of wall construction. Comply with manufacturer's instructions and recommendations for support of unit.
   6. Adjust casework and hardware so that doors and drawers are centered in openings and operate smoothly without warp or bind. Lubricate operating hardware as recommended by manufacturer.

B. Base Cabinets
   1. Fasten each individual cabinet to floor at toe space, with fasteners spaced at 24" on center.
   2. Bolt continuous cabinets together.
   3. Secure individual cabinets with not less than 2 fasteners into floor, where they do not adjoin other cabinets.

C. Wall Cabinets
   1. Verify that wood blocking has been installed at required locations.
   2. Bolt continuous cabinets together.
   3. Secure individual cabinets with not less than 2 fasteners into wall (wood blocking), where they do not adjoin other cabinets.

3.02 CLEANING AND PROTECTION

A. Repair or remove and replace defective work as directed upon completion of installation.
   1. Patch surfaces damaged by installation to prior condition as approved or replace damaged units as directed.

B. Clean shop-finished surfaces, touch-up as required, and remove or refinish damaged or soiled areas, as acceptable to Architect.
   1. Dust cabinet interiors. Clean exterior surfaces to original condition.

END OF SECTION 12 32 00

SECTION 23 54 13

SPLIT SYSTEM AIR HANDLING UNITS

PART 1 GENERAL

1.1 REFERENCE

A. Section 230105, Paragraph 1.05 – ENERGY CODE
B. Section 230513 - ELECTRICAL WORK
C. Section 232300 - REFRIGERANT PIPING SYSTEM
D. Section 236214 - AIR COOLED HEAT PUMPS
E. Section 239010 - HVAC ALTERNATES

1.2 SCOPE

A. Provide split system air handling units where shown on drawings.

B. Units must comply with ASHRAE 90.1-2010 in regards to COP, EER, etc.

C. Units shall meet all UL and NEC requirements and bear UL label.

D. Units shall be AHRI certified and rated for operation with the outdoor heat pumps units.

PART 2 PRODUCTS

2.1 Air handling units shall be Bryant FJ5A and FMA5X series as indicated on the drawings, complete with standard cooling coil, electric heating coil, condensate drain pan, centrifugal blower, supply duct connections. Apartment unit (FMA5X) air handling units shall have louvered front return air panels. Common area (FJ5A) air handling units shall be multi-poise type with bottom return air openings. All units shall be approved for installation with 0” clearance to combustible material.

2.2 Blower wheels shall be centrifugal, forward curved, direct drive type and dynamically balanced for smooth, quiet operation. Motors shall be high efficiency, electronic commutation type (ECM) motors with built-in overload protection and sleeve bearings. Motor speeds shall be easily selected via motor terminals.

2.3 Evaporator coils shall be high efficiency direct expansion type with rifled copper tubes and enhanced aluminum fins. Coils shall be designed for application with the air handling units and certified for use with the outdoor air cooled condensing units. Each coil shall be factory tested at 500 psig. Coils shall be leak tested, dehydrated and shipped with a refrigerant, helium or nitrogen holding charge. Liquid-line Schrader valves shall be provided.

2.4 All drain pans shall include both primary and secondary drain connections.

2.5 UL approved electric heat modules shall be furnished with each unit. Electric heater elements shall be constructed of heavy-duty nickel chromium elements internally

connected on 208 volt, single phase. Each 208 volt heater shall have pilot duty with secondary backup fuse links for automatic reset of high limit controls.

2.6 Cabinets shall be manufactured of heavy gauge galvanized steel with painted panels. The interior of the cabinets shall be completely insulated with a minimum of ½" insulation for thermal and acoustical treatment. The maximum cabinet height for apartment unit air handling units shall not exceed 43.5".

2.7 Apartment unit air handling units (FMA5X) shall be designed for wall mounting applications. Furnish all units with wall mounting hardware.

2.8 Each unit shall have an integral filter rack capable of housing 1" thick filters.

2.9 Units shall be furnished with a single-point electric power connection and terminal strip connections. All units shall be furnished with a disconnect.

2.10 Provide a digital electronic, 7-day programmable, manual changeover, hard wired thermostat with backlit display and a built-in cycle protector. Thermostats shall be suitable for use with heat pump systems with backup electric resistance heat. Thermostats for common area systems shall have auto-changeover capability.

2.11 A non-bleed type thermal expansion valve for refrigerant R-454B shall be provided for each unit. TXVs may be factory or field installed kits. If field installed type TXVs are provided, the HVAC Contractor shall install the TXV kits per the manufacturer's instructions.

2.12 Provide a five-year limited parts warranty on the complete unit, including the electric heaters. Provide a one-year labor warranty for the complete unit.

2.13 Basis of design manufacturer is Bryant. Equivalent units by Trane, or York/Johnson Controls, meeting all specified requirements (including scheduled efficiencies) may be furnished at the Contractor's option.

PART 3 EXECUTION

3.1 Power wiring by the Electrical Contractor. Control wiring by this Contractor.

3.2 Apartment unit air handlers shall be mounted above water heaters as detailed on the drawings. Common area air handlers shall be mounted on return air plenums or in a horizontal position above the ceiling as detailed on the drawings.

3.3 Provide flexible connections at the discharge duct connection to each unit.

3.4 Provide condensate drain systems and a condensate overflow shut-off switch for each air handling unit per the notes and details included on the drawings.

3.5 HVAC Contractor shall furnish and install a 0 – 600 second off cycle timer for 50% of the air-handling units on each floor. The off cycle timers will prevent the possibility of all units coming on at the same time after a power failure. The timers shall be wired into the "R" circuit of the air-handling unit controls so that the thermostat will not receive 24 volt

power until the timer setting has elapsed. Off cycle timers shall initially be set for ten-minute delays.

3.6 The HVAC Contractor shall furnish and install 1” filters for each unit.

3.7 Provide necessary liquid and suction refrigerant piping between air handlers and condensing units. Pipe units per the refrigerant piping details on the drawings.

END OF SECTION 23 54 13

SECTION 23 62 14

AIR COOLED HEAT PUMPS

PART 1 GENERAL

1.1 REFERENCE

A. Section 230105, Paragraph 1.05 - ENERGY CODE
B. Section 230513 - ELECTRICAL WORK
C. Section 232300 - REFRIGERANT PIPING SYSTEM
D. Section 235413 - SPLIT SYSTEM AIR HANDLING UNITS
E. Section 239010 - HVAC ALTERNATES

1.2 SCOPE

A. Furnish and install air-cooled heat pumps with arrangement and capacities as shown on the Drawings.

B. Units shall be completely weatherproofed for installation outside.

C. Units shall be AHRI certified and rated for operation with the split system air handling units.

PART 2 PRODUCTS

2.1 Units shall be Bryant model FMA & FJ5, 14.3 – 15.2 SEER2, 11.0 – 12.5 EER2, 7.5 – 8.1 HSPF2, designed for use with Refrigerant R-454B.

2.2 Compressor: Hermetically sealed scroll type with internal rubber vibration isolators, rubber-in-shear mounts and multi-state muffling. Compressor motor shall be provided with internal temperature and current sensitive overloads and a compressor terminal plug.

2.3 Condenser Coil: Copper tube, aluminum fin coils, mechanically bonded, sub-cooling circuit with liquid accumulator, coil guard.

2.4 Condenser Fans: Propeller fans, direct drive, vertical discharge, permanently lubricated motor bearings, zinc-plated steel fan blades and hub, fan guards. Fan blades shall be statically and dynamically balanced. Shafts shall be corrosion resistant. Condenser fan openings shall be equipped with coated steel wire safety guards.

2.5 Fan Motors: 1100 RPM, single phase, totally enclosed, built-in thermal overload protection, permanently lubricated motor bearings.

2.6 Casing: Fabricated of galvanized steel with unit drain holes. Zinc plated fan guard. All screws shall also be coated for a long lasting, rust resistant quality appearance. Cabinet shall be bonderized and coated with a powder coat paint. A heat pump style drain pan shall be provided for easy removal of water, dirt and leaves.

2.7 Refrigeration Components: Refrigeration circuit components shall include a refrigerant reversing valve, accumulator, liquid line shutoff valve with sweat connections, vapor line shutoff valve with sweat connections, system charge of Puron Advance (R-454B) refrigerant, and compressor oil. Unit shall be equipped with a high pressure switch, low pressure switch and filter drier for Puron Advance refrigerant.

2.8 General: Service valves shall be re-usable brass type with sweat connections. Valves shall be externally located so refrigerant tube connections can be made quickly and easily. Each valve shall have a service port for ease of checking operating refrigerant pressures. Provide a factory installed liquid line filter dryer.

2.9 Provide a five-year limited parts warranty on the complete unit, a five-year limited parts warranty for the compressor and a one-year labor warranty for the complete unit.

2.10 Furnish all units with hard start kit, low temperature cut out and crankcase heater.

2.11 If anti-short-cycle capabilities are not built-in to the thermostats, the condensing units must be furnished with a five-minute off-cycle timer.

2.12 Basis of design manufacturer is Bryant. Equivalent units by Trane, or York/Johnson Controls, meeting all specified requirements (including scheduled efficiencies) may be furnished at the Contractor's option.

PART 3 EXECUTION

3.1 Install roof mounted units on 2" thick concrete pad. Provide EPDM roof pads (verify material type with General Contractor) between each condensing unit and the roof surface to protect the roof membrane. Provide adjustable equipment risers equal to Diversitech AER-8 below the corners of the unit.

3.2 Provide necessary liquid and suction refrigerant piping between air handlers and condensing units. Pipe units per the refrigerant piping details on sheet H9.12. Install all refrigerant piping specialties required by the manufacturer for long line length applications.

3.3 Disconnects and power wiring by the Electrical Contractor. All control wiring and 120 volt wiring required for accessories shall be by this Contractor.

END OF SECTION 23 62 14

SECTION 262726

WIRING DEVICES

PART 1 GENERAL

1.01 SCOPE

A. Furnish and install all wiring devices where shown on the Drawings.

B. Wiring devices shall be furnished in strict accordance with the catalog numbers and manufacturers listed in the Schedule that follows. Other special purpose devices shall be provided as specified on the Drawings.

C. All device colors other than the emergency shall be selected by the Architect.

PART 2 PRODUCTS

2.01 STANDARDS

A. Duplex Grounding Type Receptacle - 20 amp, 125 volt - NEMA 5-20R

Hubbell - HBL5362

B. Single pole Switches - 20 amp, 120/277 volt

Hubbell - HBL1221

C. Double Pole Switches - 20 amp, 120/277 volt

Hubbell - HBL1222

D. 3-Way Switches - 20 amp, 120/277 volt

Hubbell - HBL1223

E. 4-Way Switches - 20 amp, 120/277 volt

Hubbell - HBL1224

F. Weatherproof Receptacles - 20 Amp, 125 Volt - NEMA 5-20R with weather resistant rating and "WR" stamp on device

Hubbell – GF5362W with Intermatic Guardian I Series, NEMA 3R cover.

Receptacles designated as weatherproof in damp locations per NEC 406.9(A) may have flip style covers similar to Hubbell WP26.

G. Dryer Receptacle - 30 amp, 125/250 volt, 4 wire, ground type - NEMA 14-30R

Hubbell - HBL9430 with 9432 angle plug

H. G.F.C.I. Receptacle - 20 Amp, 125 Volt - NEMA 5-20R

Hubbell - HBLGF5362-I

I. Duplex Grounding Tamper Resistant Receptacle - 20 amp, 125 volt - NEMA 5-20R

Hubbell – HBLBR20TR

J. G.F.C.I. Duplex Grounding Tamper Resistant Receptacle - 20 amp, 125 volt - NEMA 5-20R

Hubbell – HBLGFTR20

2.02 APPROVED MANUFACTURERS

A. The Electrical Contractor may at his option furnish equal devices by Hubbell, Pass & Seymour/Legrand, General Electric, Leviton, or Cooper.

2.03 FINISHES

A. Wiring devices connected to normal power shall be white unless otherwise indicated or required by NEC. Confirm finish with Architect for each space at the shop drawing phase.

B. Wiring devices connected to emergency/critical power shall be red.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install wiring devices in a neat and workmanlike manner.

B. Ground all receptacles in accordance with Article 250.146 of NEC and as indicated in the Grounding Section of this Specification.

C. To eliminate noise pass through, outlets or devices shall not be mounted back to back.

D. Wiring devices specified are side and back wired type and shall be back wired.

E. General use duplex receptacles shall be grounding type, 20 ampere, and 125 volt.

F. Label emergency/critical receptacles with panel identification and circuit number using Brady Label or equivalent. Label shall be white with red letters and shall be attached to the top center of the receptacle cover plate.

G. Install floor box devices per manufacturer's instructions. Boxes shall be coordinated with new concrete floor for cast-in-place installation. Spacings shall be in accordance with UL requirements. Locations shall be dimensioned by the Architect.

END OF SECTION 262726

APPENDIX C

Provided for Reference…

FF&E Schedule and Specifications

THIS PAGE INTENTIONALLY LEFT BLANK

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**C1**	Manufacturer:	Pottery Barn
Item Name:	Club Chair	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Irving Roll Arm Leather Swivel Chair		
Product #:			
Dimensions:	32.5" W x 35.5" D x 31" H		
Finishes:			
Upholstery Mfg.:	Graded-In		
Pattern:	Statesville Leather		
Color:	TBD		
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn Irving Roll Arm Leather Swivel Chair
32.5" W x 35.5" D x 31" H
Swivels 360 degrees
Tight back and loose seat cushion
Contract Grade
Imported

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (4)

Total Quantity: **4**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**C2**	Manufacturer:	Litfad (Litfab.com)
Item Name:	Bar Stool	Rep:	
		Tel:	
Style/Series:	Natural Wood Tan Bistro Stool	E:	
Product #:	SKU: 2207245199		
Dimensions:	20.5" W x 17" D x 29.5" H		
Finishes:	Tan Natural Wood Black Base		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Litfad Natural Wood Tan Bistro Stool
w/ Saddle Seat - 30" H
Sled Base
Tan Natural Wood
Black Base

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (4)

Total Quantity: **4**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**C3**	Manufacturer:	Pottery Barn
Item Name:	Club Chair	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Champlain Roll Arm Chair		
Product #:			
Dimensions:	31.5" W x 37.5" D x 40" H		
Finishes:			
Upholstery Mfg.:	Graded-In		
Pattern:	Boucle		
Color:	TBD		
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn Champlain Roll Arm Chair
Tight Back and Loose Cushion
Adjustable Levelers on Front Legs
31.5" W x 37.5" D x 40" H
Contract Grade

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (2)

Total Quantity: **2**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**C4**	Manufacturer:	Pottery Barn
Item Name:	Wood Side Chair	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Aaron Dining Chair		
Product #:			
Dimensions:	22" W x 23.5" D x 37" H		
Finishes:	Wood / TDB		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:

Pottery Barn Aaron Dining Chair
Kiln-dried Solid Rubberwood
Hand Finished
Light Distressing Around the Edges
22" W x 23.5" D x 37" H
Contract Grade

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (8)

Total Quantity: **8**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**C5**	Manufacturer:	SitOnIT
Item Name:	Task Chair	Rep:	BLG / Lauren Carbaugh
		Tel:	614.787.5795
Style/Series:	Focus 2.0	E:	Lauren@blgreps.com
Product #:	1123.BK2.MB.YE3.AR6		
Dimensions:	27.5" W x 26" D x 39" H (adj.)		
Finishes:	MC1 Black Mesh YCC01 Black		
Upholstery Mfg.:	Maharam (Graded-in FG4 Grade 4)		
Pattern:	Messenger 26-0070014-0109		
Color:	Onyx 029		
COM Yardage/Sq. Ft.:			

Description:

SitOnIt Focus 2.0, Highback, Mesh Back
Enhanced Synchro Control w/ Seat Depth
Multi-Adj. Arms
MC1 Black Mesh
YCC01 Black
LA1 Onyx
FC1 Black Frame
BT1 5-Star Base
BC1 Black Nylon Base
CS6 Hard Floor and Carpet Casters
CH1 Standard Cylinder
Knocked Down

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity:

LEASING D105 (1)
MARKETING D016 (1)

Total Quantity: **2**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**C6**	Manufacturer:	SitOnIT
Item Name:	Conference Chair	Rep:	BLG / Lauren Carbaugh
		Tel:	614.787.5795
Style/Series:	Ozmo Light Task		Lauren@blgreps.com
Product #:	1083 US MB BT FC11 LA1 AR2 BT1 BC2 CS6 UC		
Dimensions:	23.6" x 20" D x 33" H		
Finishes:	Black Mesh Onyx Frame Graphite Base		
Upholstery Mfg.:	Maharam (Graded-in FG4 Grade 4)		
Pattern:	Messenger 26-0070014-0109		
Color:	Onyx 029		
COM Yardage/Sq. Ft.:			

Description:

SitOnIt Ozmo, Light Task
Midback Mesh, Graphite Frame,
Upholstered Seat, Basic Mechanism,
Fixed Arm, 5-star Nylon Base,
Hard Floor and Carpet Casters
Grade 4 Textile
LA1 Onyx Frame
BC2 Graphite Base
MC5 Onyx Mesh
Knocked Down

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CONFERENCE & CLOSING (6)

Total Quantity: **6**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**C7**	Manufacturer:	SitOnIT
Item Name:	Side Chair	Rep:	BLG / Lauren Carbaugh
		Tel:	614.787.5795
Style/Series:	Focus		Lauren@blgreps.com
Product #:	5641B1.A130		
Dimensions:	24.5" W x 26" D x 34" H		
Finishes:	MC1 Black Mesh YCC01 Black		
Upholstery Mfg.:	Maharam (Graded-in FG4 Grade 4)		
Pattern:	Messenger 26-0070014-0109		
Color:	Onyx 029		
COM Yardage/Sq. Ft.:			

Description:
SitOnIt Focus Side Chair, Mesh Back
Black Frame, with Casters, A130 Arm
MC1 Black Mesh
YCC01 Black
LA1 Onyx
FC1 Black Frame
C12 Hard Floor and Carpet Casters

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity:
LEASING D105 (1)
MARKETING D106 (2)

Total Quantity: **3**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**C8**	Manufacturer:	Pottery Barn
Item Name:	Side Chair	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Altra Chair		
Product #:			
Dimensions:	29.5" W x 31" D x 29" H		
Finishes:	Wood: Solid Oak in Light Honey Fabric: Gibson Silver		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn Altra Side Chair
Solid Oak in Light Honey Frame
Gibson Silver Seat and Back
29.5" W x 31" D x 29" H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MARKETING D106 (2)

Total Quantity: **2**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

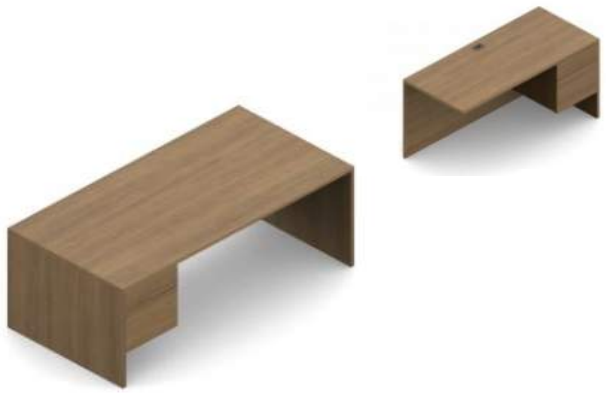
PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**D1**	Manufacturer:	Global Furniture Group
Item Name:	Desk w/ Right Pedestal Return	Rep:	Gina Frazier
		Tel:	614.325.5888
Style/Series:	Genoa	E:	gfrazier@globalfurniture.com
Product #:	G3072SPL w/ G2048FR		
Dimensions:	72" W x 30" D x 29" H x 78" Overall		
Finishes:	Black BLK 1		
Plastic Laminate:	TBD		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:

Global Genoa Series Laminate Desk
Grommet Right
Single B/F Pedestal (Left)
Right Return w/ B/F Pedestal (Right)
Grommet Center
3/4 Modesty
Pencil tray included
72" W x 30" D x 29" H x 78" Overall
PLam TBD



PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MARKETING D106 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**F1**	Manufacturer:	Global Furniture Group
Item Name:	Lateral File - Two Drawer	Rep:	Gina Frazier
		Tel:	614.325.5888
Style/Series:	1900 Plus Series	E:	gfrazier@globalfurniture.com
Product #:	1930P-2F12,W401,~STD,~GLO,BLK,~STD		
Dimensions:	30" W x 19.25" D x 27.89" H		
Finishes:	Black BLK 1		
Frame:			
Plastic Laminate:			
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Global 1900 Plus Series
2-Drawer Lateral File
30" W x 19.25" D x 27.89" H
Standard Paint - BLK 1 - Black
12.25" H Drawers
Counterweight Balance - Standard

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MARKETING D106 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**MB1**	Manufacturer:	ULINE
Item Name:	Marker Board	Rep:	
		Tel:	262.612.4200
Style/Series:	Glass Dry Erase Board		
Product #:	H-7180		
Dimensions:	4' W x 3' H		
Finishes:	Magnetic White		
Frame:	Frameless		
Plastic Laminate:			
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Uline Glass Dry Erase Board
4' W x 3' H
Tempered glass, magnetic
Includes 4 markers, tray and mounting hardware
Includes 4 rare earth magnets

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MARKETING D106 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**S1**	Manufacturer:	Pottery Barn
Item Name:	Sofa	Rep:	
		Tel:	1.888.779.5176
Style/Series:	PB Comfort Roll Arm Leather Sofa		
Product #:	9481882		
Dimensions:	68" W x 40" D x 38" H SH: 19"		
Finishes:			
Upholstery Mfg.:	Graded-In		
Pattern:	Statesville Leather		
Color:	TBD		
COM Yardage/Sq. Ft.:			

Description:
PB Comfort Roll Arm Leather Sofa
Square Tapered Legs in Expresso Finish
Loose Cushions
Adjustable Glides
68" W x 40" D x 38" H SH: 19"

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**SH1**	Manufacturer:	ULINE
Item Name:	Open Shelf	Rep:	
		Tel:	262.612.4200
Style/Series:	Type 304		
Product #:	H5479		
Dimensions:	36" W x 18" D x 72" H		
Finishes:	Stainless Steel		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Uline Type 304 Stainless Steel Wire Shelving
4 adjustable shelves
Shelves adjust in 1" increments

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: PARCEL ROOM D115 (4)

Total Quantity: **4**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**ST1**	Manufacturer:	Global Furniture Group
Item Name:	Closed Storage Cabinet	Rep:	Gina Frazier
		Tel:	614.325.5888
Style/Series:	9300 Series Storage Cabinet	E:	gfrazier@globalfurniture.com
Product #:	9336P-S72L,W401,CW365,~STD,~GLO,BLK,~STD		
Dimensions:	36" W x 18" D x 72" H		
Finishes:	Black BLK 1		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Global 9300 Series Storage Cabinet
Standard Paint Finish
Include Counterweight
Looped Full Pull
One Fixed Shelf, Three Adjustable
36" W x 18" D x 72" H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MARKETING D106 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**ST2**	Manufacturer:	ULINE
Item Name:	Flammable Storage Cabinet	Rep:	
		Tel:	262.612.4200
Style/Series:	Yellow Safety Cabinet / Standard		
Product #:	H-1564M		
Dimensions:	43" W x 18" D x 65" H		
Finishes:	Yellow		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
ULINE Standard Flammable Storage Cabinet
Double wall 18-gauge steel
Sloped shleves safely direct spills away from containers
Recessed paddle handle
Continuous piano hinge
Adjustable leveling feet
Meets NFPA, IFC and OSHA Standards
43" W x 18" D x 65" H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MECH./JAN. D116 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T1**	Manufacturer:	Pottery Barn
Item Name:	Coffee Table	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Delaney Rectangular Marble Coffee Table		
Product #:			
Dimensions:	40.5" W x 16.5" D x 17" H		
Finishes:	Marble		
Frame:	Black		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn
Delaney Rectangular Marble Coffee Table
Marble Top w/ Black Metal Frame
40.5" W x 16.5" D x 17" H
Contract Grade

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T2**	Manufacturer:	Pottery Barn
Item Name:	Dining Table	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Owen Round Pedestal		
Product #:			
Dimensions:	45"- 62" Extendable		
Finishes:	Rubberwood		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:

Pottery Barn Owen Round
Extendable Dining Table
45"- 62" Extendable
Hand Rubbed and Finished on
All Sides
Adjustable Levelers
Contract Grade

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (2)

Total Quantity: **2**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T3**	Manufacturer:	Global Furniture Group
Item Name:	Conference Table	Rep:	Gina Frazier
		Tel:	614.325.5888
Style/Series:	Anywhere Table Collection		gfrazier@globalfurniture.com
Product #:	TRT2T7236, 1TF, ~ATOP, ACJ, 2S, ACJ, ~ATB, TBL, ~, ~		
Dimensions:	72" W x 36" D		
Finishes:	PLam: TBD Base: 2-Black		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Global Furniture Group
Anywhere Table Collection
Rectangular Table, Tapered Blade Bases,
72" W x 36" D, One Piece Top
1" thick thermally fused laminate
Metal tapered blade bases
No grommet included

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CONFERENCE & CLOSING D103 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T4**	Manufacturer:	Pottery Barn
Item Name:	Side Table	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Ludlow Rectangular Trunk	E:	
Product #:			
Dimensions:	18.5" W x 15" D x 25" H		
Finishes:	White (as shown)		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:

Pottery Barn Ludlow Rectangular
Trunk End Table
Wood textured to resemble
weathered canvas
Adjustable levelers
18.5" W x 15" D x 25" H
Contract Grade

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T5**	Manufacturer:	Pottery Barn
Item Name:	Side Table	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Tresle Round Reclained Wood	E:	
Product #:			
Dimensions:	26" Dia. x 26" H		
Finishes:	Fir Wood, Woodtone Finish		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn
Tresle Round Reclained Wood End Table
Fir Wood, Woodtone Finish
26" Dia. x 26" H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (2)

Total Quantity: **2**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T6**	Manufacturer:	Pottery Barn
Item Name:	Side Table	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Parquet Square Reclaimed	E:	
Product #:			
Dimensions:	23.5" Sq. x 23.5" H		
Finishes:	Wood - Natural Tone Metal - Dark Bronze		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn Parquet Square
Reclaimed Wood End Table
Kiln-dried Reclaimed Elm
Cast Iron Base
Adjustable Levelers
23.5" Sq. x 23.5" H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025

Plan Tag:	**T7**	Manufacturer:	Pottery Barn
Item Name:	Side Table	Rep:	
		Tel:	1.888.779.5176
Style/Series:	Tanner Round Glass End Table	E:	
Product #:			
Dimensions:	24" Dia. x 24" H		
Finishes:	Iron - Blackened Bronze		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Pottery Barn Tanner Round Glass End Table
2 Glass Shelves
Iron Base in Blackened Bronze
Adjuatable Levelers
24" Dia. x 24" H
Contract Grade

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CLUB D108 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**TB1**	Manufacturer:	ULINE
Item Name:	Tack Board	Rep:	
		Tel:	262.612.4200
Style/Series:	Fabric Bulletin Board		
Product #:	H-7809		
Dimensions:	4' W x 3' H		
Finishes:	Aluminum frame Charcoal Fabric		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:
Uline Fabric Bulletin Board
Push pin or magnet (not included)
Long-lasting fabric hides pin holes
Aluminum frame
High-density fiberboard back
4' W x 3' H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: MARKETING D106 (1)

Total Quantity: **1**

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan

PRODUCT SPECIFICATION

Project Name / Number:	**The Falls / 23446**		June 11, 2025
Plan Tag:	**TB2**	Manufacturer:	Ghent
Item Name:	Enclos. Fabric Bulletin Board	Rep:	
		Tel:	800.543.0550
Style/Series:	PA2		
Product #:	PA23648F-91		
Dimensions:	4' W x 3' H		
Finishes:	Aluminum Frame, Satin Finish Gray (91) fabric		
Upholstery Mfg.:			
Pattern:			
Color:			
COM Yardage/Sq. Ft.:			

Description:

Ghent PA2 Series Enclosed Fabric Bulletin Board w/ Lock
2-Door, Shatter Resistant Acrylic Panels. Fabric interior panel.
Long-lasting fabric hides pin holes
Aluminum frame, Satin finish
4' W x 3' H

PRODUCT IMAGE MAY NOT REFLECT EXACT SPECIFICATIONS

Room/Quantity: CORRIDOR D112 (1)

Total Quantity: **1**

© 2025 MOODY NOLAN INC.

ABBREVIATIONS

SYMBOLS
&	AND
∠	ANGLE
@	AT
#	NUMBER / POUND
℄	CENTERLINE
ℙ	PROPERTY LINE

A
AB	ANCHOR BOLT
ABV	ABOVE
AC	AIR CONDITIONING / AIR CONDITIONER
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACT	ACOUSTIC CEILING TILE
AD	AREA DRAIN
ADJ	ADJACENT / ADJUSTABLE
AFC	ABOVE FINISH CEILING
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPD	APPROVED
APPROX	APPROXIMATE
APT	APARTMENT
ARCH	ARCHITECT / ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AV	AUDIO VISUAL

B
BC	BOTTOM OF CURB
BD	BOARD
BET	BETWEEN
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM / BENCHMARK
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT UP ROOF

C
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CFM	COLD FORMED METAL / CUBIC FEET PER MINUTE
CIP	CAST IN PLACE
CI	CURB INLET
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLOS	CLOSET
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNSK	COUNTERSUNK
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUE
CONTR	CONTRACTOR
CORR	CORRIDOR / CORRUGATED
CPT	CARPET
CRS	COURSE
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER

D
DBL	DOUBLE
DEMO	DEMOLISH
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DOOR OPENING
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING

E
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN / EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION (ABOVE GRADE)
ELECT	ELECTRICAL
ELEV	ELEVATION (BUILDING ELEVATION)
ELV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EP	ELECTRICAL PANEL / EDGE OF PAVEMENT
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPANSION
EXPO	EXPOSED
EXIST	EXISTING
EXT	EXTERIOR

F
FA	FIRE ALARM
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FLOOR
FIN	FINISH OR FINISHED
FLR	FLOOR
FLG	FLASHING
FLUOR	FLUORESCENT
FO	FACE OF
FP	FIREPROOF
FRMG	FRAMING
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNACE
FURR	FURRING
FWC	FABRIC WALLCOVERING
FHC	FIRE HOSE CABINET

G
GA	GAGE / GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFI	GROUND FAULT INTERRUPT
GFRC	GLASS FIBER REINFORCED CONCRETE
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GL	GLASS OR GLAZING
GND	GROUND
GYP	GYPSUM
GWB	GYPSUM WALLBOARD

H
H	HEIGHT / HIGH
HB	HOSE BIB
HC/HDCP	ACCESSIBLE
HOLW	HOLLOW
HDBD	HARDBOARD
HDO	HIGH DENSITY OVERLAY
HDR	HEADER
HDW	HARDWARE
HDWD	HARDWOOD
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR / HANDRAIL
HTG	HEATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER

I
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE
INSUL	INSULATION
INT	INTERIOR
INV	INVERT

J
JAN	JANITOR
JBOX	JUNCTION BOX
JST	JOIST
JT	JOINT

K
KIT	KITCHEN
KO	KNOCKOUT

L
L	LENGTH
LAB	LABORATORY
LAM	LAMINATE
LAV	LAVATORY
LF	LINEAR FOOT
LGTH	LENGTH
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LTG	LIGHTING

M
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MT	MARBLE TILE
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MUL	MULLION

N
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

O
OA	OVERALL
OBS	OBSCURE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFC	OFFICE
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD

P
PC	PRE-CAST
PERF	PERFORATED
PL	PLATE / PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PORC	PORCELAIN
POS	POINT OF SALE
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT / PRESSURE TREATED
PTD	PAINTED
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER

Q
QT	QUARRY TILE
QTY	QUANTITY

R
R	RADIUS / RISER
RA	RETURN AIR
RB	RUBBER BASE
RD	ROOF DRAIN
REF	REFRIGERATOR / REFERENCE
REINF	REINFORCED
REQ'D	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
RM	ROOM
RMV	REMOVE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RWL	RAIN WATER LEADER

S
S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SC	SOLID CORE / SEALED CONCRETE
SCHED	SCHEDULE
SD	SMOKE DETECTOR / STORM DRAIN
SECT	SECTION
SHTG	SHEATHING
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SS	STAINLESS STEEL
SSG	STRUCTURAL SEALANT GLAZED
SSK	SERVICE SINK
STA	STATION
STD	STANDARD
STL	STEEL
STM	STEAM
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SV	SHEET VINYL
SY	SQUARE YARD
SYM	SYMMETRICAL

T
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TC	TOP OF CURB
TEL	TELEPHONE
THK	THICK(NESS)
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
TP	TOP OF PAVEMENT
TS	TUBE STEEL
TV	TELEVISION
TW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO

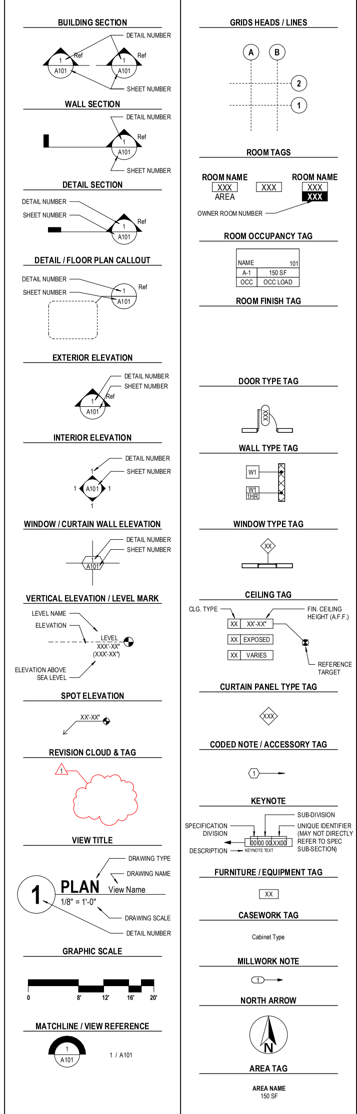
U
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL

V
VCT	VINYL COMPOSITION TILE
VB	VAPOR BARRIER / VINYL BASE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING

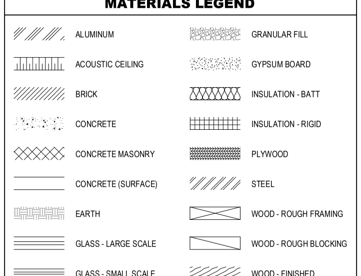
W
W	WEST / WIDTH
WF	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WI	WROUGHT IRON
WP	WATERPROOF
WR	WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWF	WELDED WIRE FABRIC

Y
YD	YARD / YARD DRAIN

SYMBOLS LEGEND



MATERIALS LEGEND



INDEX OF DRAWINGS

VOLUME 1

SHEET NUMBER	SHEET NAME
GENERAL	
G000	COVER SHEET
G001	DRAWING INDEX
G010	CODE DATA - BUILDING A-C
G010D	CODE DATA - CLUBHOUSE
G010G	CODE DATA & LIFE SAFETY - GARAGES
G011	CODE SITE PLAN
G020	RATED ASSEMBLIES
G021	RATED ASSEMBLIES
G022	RATED ASSEMBLIES
G023	RATED ASSEMBLIES
G024	RATED ASSEMBLIES
G025	RATED ASSEMBLIES
G030	FRAMING DETAILS
G031	FRAMING DETAILS
G100A	BUILDING A - LIFE SAFETY
G100B	BUILDING B - LIFE SAFETY
G100C	BUILDING C - LIFE SAFETY
G100D	CLUBHOUSE - LIFE SAFETY
G200	BUILDING ASSEMBLIES SCHEDULE
G300A	BUILDING A - GROSS SQUARE FOOTAGE
G300B	BUILDING B - GROSS SQUARE FOOTAGE
G300C	BUILDING C - GROSS SQUARE FOOTAGE
G300D	CLUBHOUSE - GROSS SQUARE FOOTAGE
G300G	GARAGE G1 & G2 - AREA PLANS
G400A	BUILDING A - GROSS AREA
G400B	BUILDING B - GROSS AREA
G400C	BUILDING C - GROSS AREA
G400D	CLUBHOUSE - GROSS AREA
G500A	BUILDING A - AREA PLANS - NET
G500B	BUILDING B - AREA PLANS - NET
G500C	BUILDING C - AREA PLANS - NET
G500D	CLUBHOUSE - AREA PLANS - NET
32	
CIVIL	
C101	OVERALL STALKING PLAN
C102	STALKING PLAN
C103	STALKING PLAN
C104	STALKING PLAN
C105	STALKING PLAN
C106	STALKING PLAN
C107	STALKING PLAN
C108	STALKING PLAN
C201	TITLE SHEET
C202	GENERAL NOTES
C203	GENERAL NOTES
C204	OVERALL STORM SEWER & GRADING PLAN
C205	STORM SEWER & GRADING PLAN
C206	STORM SEWER & GRADING PLAN
C207	STORM SEWER & GRADING PLAN
C208	STORM SEWER & GRADING PLAN
C209	STORM SEWER & GRADING PLAN
C210	STORM SEWER DETAILS
C211	STORM SEWER DETAILS
C212	STORM SEWER DETAILS
C213	STORM SEWER DETAILS
C214	STORM SEWER PROFILES
C215	STORM SEWER PROFILES
C216	STORM SEWER PROFILES
C217	OVERALL EROSION AND SEDIMENT CONTROL PLAN
C218	EROSION AND SEDIMENT CONTROL PLAN
C219	EROSION AND SEDIMENT CONTROL PLAN
C220	EROSION AND SEDIMENT CONTROL PLAN
C221	EROSION AND SEDIMENT CONTROL PLAN
C222	EROSION AND SEDIMENT CONTROL PLAN
C223	EROSION AND SEDIMENT CONTROL DETAILS
C224	EROSION AND SEDIMENT CONTROL DETAILS
C225	GRADING DETAIL
C301	TITLE SHEET
C302	SANITARY PLAN
C303	SANITARY PLAN
C304	SANITARY PLAN
C305	SANITARY PLAN
C306	SANITARY PLAN
C307	SANITARY PLAN
C401	OVERALL UTILITY PLAN
C402	WATER SERVICE PLAN
C403	WATER SERVICE PLAN
C404	WATER SERVICE PLAN
C405	WATER SERVICE PLAN
C406	WATER SERVICE PLAN
C407	WATER SERVICE PLAN
C408	WATER SERVICE PLAN
C409	WATER SERVICE PLAN
C410	WATER SERVICE PLAN
C411	UTILITY NOTES & DETAILS
C412	UTILITY DETAILS
52	
LANDSCAPE	
L1.01	LANDSCAPE PLAN - OVERALL SITE
L1.02	LANDSCAPE PLAN - NORTH
L1.03	LANDSCAPE PLAN - SOUTH
L1.04	LANDSCAPE DETAILS
L1.05	SITE DETAILS
5	
STRUCTURAL	
S001	GENERAL STRUCTURE INFORMATION
S002	TYPICAL DETAILS
S101-A	FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. A
S102-A	3RD FLOOR AND ROOF FRAMING PLAN- BLDG. A
S103-B	FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. B
S104-B	3RD FLOOR AND ROOF FRAMING PLAN- BLDG. B
S105-C	FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. C
S106-C	3RD FLOOR AND ROOF FRAMING PLAN- BLDG. C
S107-D	FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. D
S108-D	ROOF FRAMING PLAN- BLDG. D
S109-G	FOUNDATION AND ROOF FRAMING PLAN - GARAGE
S200	SHEAR WALL SCHEDULE AND DETAILS
S300	FOUNDATION DETAILS
S310	FRAMING DETAILS
S320	FRAMING DETAILS
15	

SHEET NUMBER	SHEET NAME
ARCHITECTURAL	
A001	ARCHITECTURAL SITE PLAN
A101A	BUILDING A - LEVEL 01 & 02 FLOOR PLANS
A102A	BUILDING A - LEVEL 03 / ROOF PLAN
A103B	BUILDING B - LEVEL 01 & 02 FLOOR PLANS
A104B	BUILDING B - LEVEL 03 & ROOF PLANS
A105C	BUILDING C - LEVEL 01, 02, 03 FLOOR / ROOF PLANS
A106D	CLUBHOUSE - FLOOR & ROOF PLANS
A110G	GARAGE BUILDING G1 & TYP. DETAILS
A111G	GARAGE BUILDING G2
A201A	BUILDING A - LEVEL 01 & 02 RCP
A202A	BUILDING A - LEVEL 03 RCP
A203B	BUILDING B - LEVEL 01 & 02 RCP
A204B	BUILDING B - LEVEL 03 RCP
A205C	BUILDING C - LEVEL 01, 02 & 03 RCP
A206D	CLUBHOUSE - LEVEL 01 & 02 RCP
A301	AXONOMETRIC BLDG VIEWS
A310A	BUILDING A - EXTERIOR ELEVATIONS
A310B	BUILDING B - EXTERIOR ELEVATIONS
A310C	BUILDING C - EXTERIOR ELEVATIONS
A310D	CLUBHOUSE - EXTERIOR ELEVATIONS
A310E	ALTERNATE ELEVATION & DETAILS
A401A	BUILDING A - SECTIONS
A402B	BUILDING B - SECTIONS
A403C	BUILDING C - SECTIONS
A404D	CLUBHOUSE - SECTIONS
A420	WALL SECTIONS - BUILDING A THRU C
A421	WALL SECTIONS - BUILDING A - C & CLUBHOUSE
A422	WALL SECTIONS - CLUBHOUSE
A423	WALL SECTIONS - CLUBHOUSE
A440	EXTERIOR DETAILS - SECTION
A441	EXTERIOR DETAILS - SECTION
A442	EXTERIOR DETAILS
A443	EXTERIOR DETAILS
A460	ROOF DETAILS
A470	DUMPSTER ENCLOSURE DETAILS
A500	MOUNTING HEIGHTS
A501	ENLARGED UNIT PLANS - 1 BED
A502	ENLARGED UNIT PLANS - 2 BED
A503	ENLARGED UNIT PLANS - 2 BED 2 BA
A504	ENLARGED UNIT PLANS - 3 BED
A505	ENLARGED UNIT PLANS - 1 BED ANSI TYPE A
A506	ENLARGED UNIT PLANS - 2 BED ANSI TYPE A
A507	ENLARGED UNIT PLANS - 3 BED ANSI TYPE A
A508	ENLARGED UNIT PLANS - CLUBHOUSE
A509	ENLARGED UNIT PLANS - CLUBHOUSE
A512	ENLARGED PLANS, ELEVATIONS & CASEWORK DETAILS - CLUBHOUSE
A513	ENLARGED PLANS, ELEVATIONS & CASEWORK DETAILS - CLUBHOUSE
A521	UNIT DETAILS
A522	UNIT DETAILS
A601	BUILDING A-C STAIR PLANS AND SECTIONS
A603	CLUBHOUSE STAIR PLANS AND SECTIONS
A610	STAIR & RAILING DETAILS
A700	DOOR & WINDOW SCHEDULES
A710	DOOR DETAILS
A800A	FINISH SCHEDULE/LEGEND
A801D	CLUBHOUSE - INTERIOR 3D VIEWS
A825	INTERIOR DETAILS - BUILDINGS A-C
A900D	CLUBHOUSE - FINISH PLAN - OVERALL
A931	SIGNAGE SCHEDULE
59	
FIRE PROTECTION	
FP100	FIRE PROTECTION SITE PLAN
FP101-A	BUILDING A - LEVEL 01 & 02 FIREPROTECTION PLANS
FP102-A	BUILDING A - LEVEL 03 & ROOF FIREPROTECTION PLANS
FP103-B	BUILDING B - LEVEL 01 & 02 FIRE PROTECTION PLANS
FP104-B	BUILDING B - LEVEL 03 & ROOF FIRE PROTECTION PLANS
FP105-C	BUILDING C - LEVEL 01 & 02 FIRE PROTECTION PLANS
FP106-D	BUILDING D - LEVEL 01 & 02 FIRE PROTECTION PLANS
FP201	FIRE PROTECTION - ENLARGED PLAN AND DETAILS
FP301	FIRE PROTECTION - NOTES, SCHEDULES AND DETAILS
9	
PLUMBING	
P100	PLUMBING SITE PLAN
P101-A	BUILDING A LEVEL 01 & 02 PLUMBING PLANS
P102-A	BUILDING A LEVEL 03 & ATTIC PLUMBING PLANS
P103-B	BUILDING B - LEVEL 01 & 02 PLUMBING PLANS
P104-B	BUILDING B - LEVEL 03 & ROOF PLUMBING PLANS
P105-C	BUILDING C - PLUMBING PLANS
P106-D	BUILDING D - LEVEL 01 & 02 PLUMBING PLANS
P107-D	BUILDING D LEVEL 01 & 02 PLUMBING SUPPLY PLANS
P200	ENLARGED UNIT - PLUMBING PLANS
P201	ENLARGED UNIT - PLUMBING PLANS
P202	ENLARGED UNIT - PLUMBING PLANS
P301	NOTES, SCHEDULES & LEGENDS
P401	PLUMBING DETAILS
P402	PLUMBING DETAILS
14	
MECHANICAL	
H100	HVAC SITE PLAN
H101-A	BUILDING A LEVEL 01 & 02 HVAC PLANS
H102-A	BUILDING A - LEVEL03 & ROOF HVAC PLANS
H103-B	BUILDING B LEVEL 01 & 02 HVAC PLANS
H104-B	BUILDING B LEVEL 03 & ROOF HVAC PLANS
H105-C	BUILDING C LEVEL 01 & 02 HVAC PLANS
H106-C	BUILDING C LEVEL 03 & ROOF HVAC PLANS
H107-D	BUILDING D LEVEL 01 & 02 HVAC PLANS
H108-D	BUILDING D - ROOF HVAC PLANS
H-200	ENLARGED UNITS - HVAC PLANS
H-201	ENLARGED UNITS - HVAC PLANS
H-300	HVAC SCHEDULES
H-301	HVAC DETAILS
13	
ELECTRICAL	
E100	ELECTRICAL SITE PLAN
E101	ELECTRICAL CLUBHOUSE PLAN
E101-A	BUILDING A LEVEL 01 & 02 ELECTRICAL PLANS
E102-A	BUILDING A - LEVEL03 & ROOF ELECTRICAL PLANS
E103-B	BUILDING B LEVEL 01 & 02 ELECTRICAL PLANS
E104-B	BUILDING B LEVEL 03 & ROOF ELECTRICAL PLANS
E105-C	BUILDING C LEVEL 01 & 02 ELECTRICAL PLANS
E106-C	BUILDING C LEVEL 03 & ROOF ELECTRICAL PLANS
E107-D	BUILDING D - LEVEL 01 & 02 ELECTRICAL PLANS
E109	GARAGE BUILDING - ELECTRICAL PLAN
E202	ENLARGED UNITS ELECTRICAL PLANS
E401	ELECTRICAL DETAILS
E-200	ENLARGED UNITS ELECTRICAL PLANS
E-201	ENLARGED UNITS ELECTRICAL PLANS
E-300	ELECTRICAL ONE-LINE DIAGRAMS
E-301	ELECTRICAL ONE-LINE DIAGRAMS
E-302	ELECTRICAL PANEL SCHEDULES & APARTMENT LOAD TABULATIONS
E-400	ELECTRICAL DETAILS
18	
POOL	
PL-1	POOL DECK PLAN, SECTIONS & DETAILS
PL-2	POOL CONSTRUCTION DETAILS
PL-3	POOL EXTERIOR PIPING PLAN & COMPONENT DETAILS
PL-4	POOL EQUIPMENT ROOM PLAN & EQUIPMENT DETAILS
4	
Grand total: 221	

GENERAL NOTES

1. X

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
DRAWING INDEX

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G001

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:22:48 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN INC.

BUILDING INFORMATION	
DEVELOPER NAME	COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA)
DEVELOPER ADDRESS	880 E. 11TH AVE COLUMBUS, OH 43211-2771
DEVELOPER PHONE	614-421-6000
SITE ADDRESS	3355 REFUGEE ROAD, COLUMBUS, OH 43232

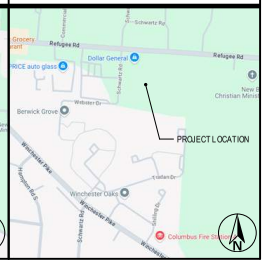
DESCRIPTION

REFUGEE ROAD IS A MULTI-FAMILY RESIDENTIAL CAMPUS IN COLUMBUS, OHIO. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

THE PROPOSED RESIDENTIAL BUILDINGS ARE THREE STORY WALK-UPS. THE CAMPUS HAS A TOTAL OF 220 UNITS AND INCLUDES A MIX OF 1 BED/ 1 BATH, 2 BED/ 1 BATH, 2 BED/ 2 BATH AND 3 BED/ 2 BATH UNIT TYPES. EACH UNIT HAS A PRIVATE OUTDOOR BALCONY WITH METAL GUARDRAIL THAT IS ACCESSED THROUGH THE UNIT. THE BUILDINGS ARE CLAD IN VINYL LAP SIDING, BOARD AND BATTEN SIDING AND STONE VENEER. ALL OF THE BUILDING HAVE SLOPED ASPHALT SHINGLE ROOFS.

AREA MAP

VICINITY MAP



SITE INFORMATION	
PARCEL NO.	530-156568
EXISTING ZONING CLASSIFICATION:	LC4
ZONING CASE NO.:	Z04-009A
VARIANCE:	CCC 3333.18(B), CCC3312.49(C), CCC 3333.25, CCC 3312.21(D)(1)
HEIGHT DISTRICT:	H-35
COMMERCIAL OVERLAY:	NONE
TOTAL SITE AREA:	8.55 ACRES
FLOOD ZONE:	ZONE X
FLOOD INSURANCE RATE MAP # (FIRM):	39049C0341K
MOST RECENT EFFECTIVE DATE OF FIRM:	6/1/2008
BASE FLOOD ELEVATION:	NONE
SITE DATA	
TOTAL SITE AREA:	9.2 AC
TOTAL DISTRUBED AREA:	9.2 AC
DISTURBED IMPERVIOUS AREA:	0.00 AC
PRE-DEVELOPED IMPERVIOUS:	0.00 AC
POST DEVELOPED IMPERVIOUS	6.66 AC
PARKING	
REQUIRED PARKING	1.5 PER UNIT 1.5 * 220 = 330 TOTAL
PROPOSED PARKING	331 (289 SURFACE, 42 GARAGE)
REQUIRED ADA PARKING (VAN/TOTAL):	1/8
PROPOSED ADA PARKING (VAN/TOTAL):	1/8
REQUIRED BICYCLE RACKS	
PROPOSED BICYCLE RACKS	9

BUILDING CODES	
TITLE	EDITION
OHIO BUILDING CODE	2024 OBC
OHIO PLUMBING CODE	2024 OPC
OHIO MECHANICAL CODE	2024 OMC
NATIONAL ELECTRICAL CODE	2023 NEC - NFPA 70
INTERNATIONAL FUEL GAS CODE	2021 IFGC
INTERNATIONAL ENERGY CONSERVATION CODE	2021 IECC SECTION R-401
ICC A117.1 - 2017 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	2017 ANSI A117.1
NFPA 101 LIFE SAFETY CODE	2015 NFPA 101 LIFE SAFETY CODE
OHIO FIRE CODE	2021 IFC
NATIONAL FIRE ALARM AND SIGNALING CODE	NFPA 72-22
FAIR HOUSING ACT	THIS PROJECT IS DESIGNED TO MEET THE FAIR HOUSING ACT AND ITS SEVEN DESIGN AND CONSTRUCTION REQUIREMENTS: 1. ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE 2. ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS 3. USABLE DOORS 4. ACCESSIBLE ROUTES INTO AND THROUGHOUT COVERED UNIT 5. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS 6. REINFORCED WALLS IN BATHROOMS FOR LATER INSTALLATION OF GRAB BARS 7. USABLE KITCHEN AND BATHROOMS
SAFE HARBOR FOR COMPLIANCE	THIS PROJECT UTILIZES 2017 ANSI A117.1 AS ITS SAFE HARBOR.

GENERAL BUILDING HEIGHTS AND AREAS		
	REQUIREMENTS	SECTION/TABLE
CONSTRUCTION TYPE	V-B	
USE GROUP	BUILDING TYPE A: R-2 BUILDING TYPE B: R-2 BUILDING TYPE C: R-2	
ALLOWABLE HEIGHT	BUILDING TYPE A: 60' - SPRINKLERED 13R BUILDING TYPE B: 60' - SPRINKLERED 13R BUILDING TYPE C: 60' - SPRINKLERED 13R	TABLE 504.3
ACTUAL HEIGHT	BUILDING TYPE A: 43' BUILDING TYPE B: 43' BUILDING TYPE C: 43'	
ALLOWABLE STORIES	BUILDING TYPE A: 3 STORIES BUILDING TYPE B: 3 STORIES BUILDING TYPE C: 3 STORIES	TABLE 504.4
ACTUAL STORIES	BUILDING TYPE A: 3 STORIES BUILDING TYPE B: 3 STORIES BUILDING TYPE C: 3 STORIES	
ALLOWABLE AREA	BUILDING TYPE A: 7,000 SF BUILDING TYPE B: 7,000 SF BUILDING TYPE C: 7,000 SF	TABLE 506.2
ALLOWABLE AREA INCREASE FOR OPEN PERIMETER	**BUILDING TYPE A:** Aa = [At + (NS ×F)] Aa = [7,000 + (7,000 x 0.75)] Aa = 12,250 SF **BUILDING TYPE B:** Aa = [At + (NS ×F)] Aa = [7,000 + (7,000 x 0.75)] Aa = 12,250 SF	506.2 TABLE 506.3.3
ACTUAL AREA (PER FLOOR)	BUILDING TYPE A: 8,068 SF BUILDING TYPE B: 10,220 SF BUILDING TYPE C: 4,007 SF	

TYPES OF CONSTRUCTION		
	REQUIREMENTS	SECTION
CONSTRUCTION TYPE	VB	TABLE 601
EXTERIOR BEARING WALLS	0 OR 1 HR, SEE 1 / _G011	TABLE 705.5
EXTERIOR NON-BEARING WALLS	0	
INTERIOR BEARING WALLS	0	
INTERIOR NON-BEARING WALLS	0	
FLOORS	0	
ROOF	0	
EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE	LESS THAN 10' = 1 HOUR 10' OR MORE = 0 HOURS SEE CODE SITE PLAN G011	
BALCONIES	MIN. 40" FROM LOT LINE BECAUSE FIRE SEPARATION DISTANCE IS GREATER THAN 5' BALCONY FLOOR NEEDS TO BE SAME RATING AS FLOOR OF BUILDING 0 REQUIREMENTS PER TABLE 601	TABLE 705.2 705.2.3.1
EXTERIOR WALL OPENINGS 10' TO 15' (UP SP)	MAX ALLOWABLE IS 45% THIS IS BETWEEN BUILDINGS C1 AND A4 AS WELL AS BUILDINGS C2 AND A5. REFER TO DIAGRAM	TABLE 705.8

FIRE-RESISTIVE-RATED CONSTRUCTION		
	REQUIREMENTS	SECTION
R-2 OCCUPANCY		
SEPARATION WALLS	FIRE PARTITION	708
DWELLING/ SLEEPING UNITS	1 HR (SPRINKLERED, NFPA-13R)	708.3
HORIZONTAL SEPARATION	1 HR (SPRINKLERED, NFPA-13R)	711.2.4
STAIR SHAFTS/ BREEZEWAYS	1 HR	713.4
SEPARATION OF OCCUPANCIES IN BUILDING D (CLUBHOUSE):	FIRE PARTITIONS	420.2
BETWEEN R-2 ALL OTHER OCCUPANCIES	1 HR (SPRINKLERED, NFPA-13)	508.3.3, TABLE 508.4
OPENING PROTECTION	WALL RATING / DOOR RATING	TABLE 716.5
FIRE PARTITION	1 HR/ 1/2 HOUR	

INTERIOR FINISHES		
	REQUIREMENTS	SECTION
CLASSIFICATION	A-3/ R-2	TBD
WALL AND CEILING - INT EXT STAIRWAYS	CLASS B/B/C	TABLE 803.11
WALL AND CEILING - ROOMS	CLASS C/ C/C	TABLE 803.11
FLOOR COVERINGS	DOC FF-1 "PILL TEST" OR ASTM D2859	804.4.1

FIRE PROTECTION SYSTEMS		
	REQUIREMENTS	SECTION
SPRINKLER SYSTEMS RESIDENTIAL UNITS BALCONIES AND DECKS CLUBHOUSE LEVEL	NFPA 13R REQUIRED NFPA 13	903.3.1.2 903.3.1.2.1 903.2.1.3
STANDPIPE SYSTEMS	NOT REQUIRED, HIGHEST STORY < 30'	905.3.1
FIRE EXTINGUISHERS	CLASS 2A - 75' TRAVEL DISTANCE/ 3,000 SF AREA	906
FIRE ALARM SYSTEM	REQUIRED	907.2.9
FIRE COMMAND PANEL	NOT REQUIRED	
EMERGENCY POWER	NOT REQUIRED	907.5.2.2.5
FIRE AND SMOKE DETECTORS	REQUIRED	907.2.11.1

MEANS OF EGRESS		
	REQUIREMENTS	SECTION
STAIR WIDTH	44" UNLESS < 50 OCCUP. - 36" MIN.	1011
	44" MIN. FOR ACCESSIBLE MEANS OF EGRESS	
	MAXIMUM TRAVEL DISTANCE 125'-0"	1006.3.4

UNIT INFORMATION

UNIT TYPE	AREA (Net sf)	NO. OF UNITS
1 BED 1 BATH UNIT	673 SF	62
2 BED 1 BATH UNIT	945 SF	72
2 BED 2 BATH UNIT	945 SF	48
3 BED 2 BATH UNIT	1209 SF	38
	TOTAL	220

BUILDING INFORMATION

BUILDING TYPE:	GROSS AREA PER FLOOR	NO OF STORIES	TOTAL GROSS SF PER BLDG	NO. OF BUILDINGS:	NUMBER OF UNITS PER BUILDING:	UNIT COMPOSITIONS				
						1 BED 1 BA UNIT	2 BED 1BA UNIT	2 BED 2 BA UNIT	3 BED 2 BA UNIT	UNIT COUNT x NO. OF BUILDINGS:
BUILDING A	8068 SQFT	3	24205 SQFT	5	24 UNITS	12	12	0	0	120
BUILDING B	10223 SQFT	3	30669 SQFT	3	24 UNITS	0	0	12	12	72
BUILDING C	4340 SQFT	3	13020 SQFT	2	12 UNITS	0	06	06	0	24
BUILDING D (CH)	4472 SQFT	2	8955 SQFT	1	4 UNITS	02	0	0	2	4
GARAGE BLDG G1	1470 SQFT	1	1470 SQFT	6	6 GARAGE UNITS					
GARAGE BLDG G2	2951 SQFT	1	2951 SQFT	1	12 GARAGE UNITS				TOTAL UNIT COUNT	220

TOTAL UNIT COUNT - 220
NO OF TYPE A UNITS - 10
1- 1 BED TYPE A IN BUILDNG A (5 TOTAL)
1- 3 BED TYPE A IN BUILDING B (3 TOTAL)
1- 2 BED/1 BA TYPE A IN BUILDING C (2 TOTAL)

NO OF SENSORY UNITS - 5
NO OF COVERED GARAGE SPOTS - 48

#	DATE	CHANGE DESCRIPTION
1	09/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CODE DATA - BUILDING A-C

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

G010

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 9/11/2025 2:22:49 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN INC.

BUILDING INFORMATION	
DEVELOPER NAME	COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA)
DEVELOPER ADDRESS	880 E. 11TH AVE COLUMBUS, OH 43211-2771
DEVELOPER PHONE	614-421-6000
SITE ADDRESS	3355 REFUGEE ROAD. COLUMBUS, OH 43232

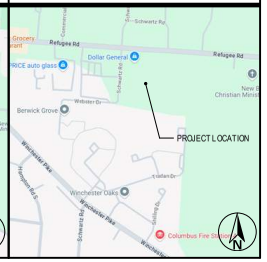
DESCRIPTION

REFUGEE ROAD IS A MULTI-FAMILY RESIDENTIAL CAMPUS IN COLUMBUS, OHIO. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

THE PROPOSED RESIDENTIAL BUILDINGS ARE THREE STORY WALK-UPS. THE CAMPUS HAS A TOTAL OF 220 UNITS AND INCLUDES A MIX OF 1 BED/ 1 BATH, 2 BED/ 1 BATH, 2 BED/ 2 BATH AND 3 BED/ 2 BATH UNIT TYPES. EACH UNIT HAS A PRIVATE OUTDOOR BALCONY WITH METAL GUARDRAIL THAT IS ACCESSED THROUGH THE UNIT. THE BUILDINGS ARE CLAD IN VINYL LAP SIDING, BOARD AND BATTEN SIDING AND STONE VENEER. ALL OF THE BUILDING HAVE SLOPED ASPHALT SHINGLE ROOFS.

AREA MAP

VICINITY MAP



SITE INFORMATION	
PARCEL NO.	530-156568
EXISTING ZONING CLASSIFICATION	LC4
ZONING CASE NO.	Z94-059A
VARIANCE	CCC 333.18(B), CCC3312.49(C), CCC 3333.25, CCC 3312.21(D)(1)
HEIGHT DISTRICT	H-35
COMMERCIAL OVERLAY	NONE
TOTAL SITE AREA	8.55 ACRES
FLOOD ZONE	ZONE X
FLOOD INSURANCE RATE MAP # (FIRM)	39049C0341K
MOST RECENT EFFECTIVE DATE OF FIRM	6/17/2008
BASE FLOOD ELEVATION	NONE
SITE DATA	
TOTAL SITE AREA	9.22 AC
TOTAL DISTRIBUTED AREA	9.22 AC
DISTURBED IMPERVIOUS AREA	0.00 AC
PREDEVELOPED IMPERVIOUS	0.00 AC
POST-DEVELOPED IMPERVIOUS	6.66 AC
PARKING	
REQUIRED PARKING	1.5 PER UNIT 1.5 * 220 = 330 TOTAL
PROPOSED PARKING	331 (289 SURFACE, 42 GARAGE)
REQUIRED ADA PARKING (VAN/TOTAL)	1/8
PROPOSED ADA PARKING (VAN/TOTAL)	1/8
REQUIRED BICYCLE RACKS	4
PROPOSED BICYCLE RACKS	6

BUILDING CODES	
TITLE	EDITION
OHIO BUILDING CODE	2024 OBC
OHIO PLUMBING CODE	2024 OPC
OHIO MECHANICAL CODE	2024 OMC
NATIONAL ELECTRICAL CODE	2023 NEC - NFPA 70
INTERNATIONAL FUEL GAS CODE	2021 IFGC
INTERNATIONAL ENERGY CONSERVATION CODE	2021 IECC SECTION R-401
ASHRAE 90.1 - 2010 ENERGY STANDARDS FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS	2019 ASHRAE 90.1
ICC A117.1 - 2017 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES	2017 ANSI A117.1
NFPA 101 LIFE SAFETY CODE	2015 NFPA 101 LIFE SAFETY CODE
OHIO FIRE CODE	2021 IFC
NATIONAL FIRE ALARM AND SIGNALING CODE	NFPA 72-22
FAIR HOUSING ACT	THIS PROJECT IS DESIGNED TO MEET THE FAIR HOUSING ACT AND IT'S SEVEN DESIGN AND CONSTRUCTION REQUIREMENTS 1. ACCESSIBLE BUILDING ENTRANCE ON AN ACCESSIBLE ROUTE 2. ACCESSIBLE AND USABLE PUBLIC AND COMMON USE AREAS 3. USABLE DOORS 4. ACCESSIBLE ROUTES INTO AND THROUGH COVERED UNIT 5. LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS IN ACCESSIBLE LOCATIONS 6. REINFORCED WALLS IN BATHROOMS FOR LATER INSTALLATION OF GRAB BARS 7. USABLE KITCHEN AND BATHROOMS
SAFE HARBOR FOR COMPLIANCE	THIS PROJECT UTILIZES 2017 ANSI A117.1 AS IT'S SAFE HARBOR.

GENERAL BUILDING HEIGHTS AND AREAS		
	REQUIREMENTS	SECTION TABLE
CONSTRUCTION TYPE	V-B	
USE GROUP	BUILDING TYPE D: R-2, A-3 *	
ALLOWABLE HEIGHT	BUILDING TYPE D: 60' - SPRINKLERED*	TABLE 504.3
ACTUAL HEIGHT	BUILDING TYPE D: 47'-10"	
ALLOWABLE STORIES	BUILDING TYPE D: (A-3) 2 STORIES*	TABLE 504.4
ACTUAL STORIES	BUILDING TYPE D: 2 STORIES	
ALLOWABLE AREA	BUILDING TYPE D: 18,000 SF*	TABLE 506.2
ACTUAL AREA (PER FLOOR)	BUILDING TYPE D: 4,466 SF	508.3.2
	*BUILDING TYPE D (CLUBHOUSE) IS ANALYZED AS A MIXED USE NON SEPERATED OCCUPANCY BUILDING. THE ALLOWABLE AREA, HEIGHT AND NUMBER OF STORIES IS BASED ON MOST RESTRICTIVE ALLOWANCES WHICH IS A-3.	

TYPES OF CONSTRUCTION		
	REQUIREMENTS	SECTION
CONSTRUCTION TYPE	V-B	TABLE 601
EXTERIOR BEARING WALLS	0	TABLE 705.5
EXTERIOR NONBEARING WALLS	0	
INTERIOR BEARING WALLS	0	
INTERIOR NONBEARING WALLS	0	
FLOORS	0	
ROOF	0	
EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE	LESS THAN 10' = 1 HOUR 10' OR MORE = 0 HOURS SEE CODE SITE PLAN G011	
BALCONIES	MIN. 40" FROM LOT LINE BECAUSE FIRE SEPARATION DISTANCE IS GREATER THAN 5' BALCONY FLOOR NEEDS TO BE SAME RATING AS FLOOR OF BUILDING 0 REQUIREMENTS PER TABLE 601	TABLE 705.2 705.2.3.1
EXTERIOR WALL OPENINGS 10' TO 15' (UP SP)	MAX ALLOWABLE IS 45% THIS IS BETWEEN BUILDINGS C1 AND A4 AS WELL AS BUILDINGS C2 AND A5. REFER TO DIAGRAM	TABLE 705.8

FIRE-RESISTIVE-RATED CONSTRUCTION		
	REQUIREMENTS	SECTION
R-2 OCCUPANCY		
SEPARATION WALLS DWELLING/ SLEEPING UNITS	FIRE PARTITION 1 HR (SPRINKLERED: NFPA-13)	708 706.3
HORIZONTAL SEPARATION	1 HR (SPRINKLERED: NFPA-13)	711.2.4
STAIR SHAFTS / BREEZWAYS	1 HR	713.4
SEPARATION OF OCCUPANCIES IN BUILDING D (CLUBHOUSE) BETWEEN ALL OTHER OCCUPANCIES	FIRE PARTITIONS 1 HR (SPRINKLERED: NFPA-13)	420.2 508.3.3, TABLE 508.4
OPENING PROTECTION FIRE PARTITION	WALL RATING/ DOOR RATING 1 HR / 1/2 HOUR	TABLE 716.5

INTERIOR FINISHES		
	REQUIREMENTS	SECTION
CLASSIFICATION	A: 3' F 2	TBD
WALL AND CEILING - INT EXT STAIRWAYS	CLASS B/B/C	TABLE 803.11
WALL AND CEILING - ROOMS	CLASS C/C/C	TABLE 803.11
FLOOR COVERINGS	DOC FF-1 "PILL TEST" OR ASTM D2859	804.4.1

FIRE PROTECTION SYSTEMS		
	REQUIREMENTS	SECTION
SPRINKLER SYSTEMS BALCONIES AND DECKS	NFPA 13R REQUIRED	903.3.1.2 903.3.1.2.1
STANDPIPE SYSTEMS	NOT REQUIRED, HIGHEST STORY < 30'	905.3.1
FIRE EXTINGUISHERS	CLASS 2A - 75' TRAVEL DISTANCE/ 3,000 SF AREA	906
FIRE ALARM SYSTEM	REQUIRED	907.2.9
FIRE COMMAND PANEL	NOT REQUIRED	
EMERGENCY POWER	NOT REQUIRED	907.5.2.2.5
FIRE AND SMOKE DETECTORS	REQUIRED	907.2.11.1

MEANS OF EGRESS		
	REQUIREMENTS	SECTION
STAIR WIDTH	44" UNLESS < 50 OCCUP. - 36" MIN. 44" MIN. FOR ACCESSIBLE MEANS OF EGRESS	

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. 5/8M RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING A AND BUILDING T TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305.
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U206
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR CEILING ASSEMBLY - UL L557
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL - UL U341, PROVIDE 12" D/B DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. PAINT CONCRETE STAIRS
15. BATHROOM SIGNAGE (INTERIOR SIGNAGE TYPE E)

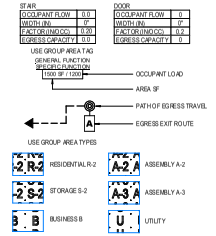
FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FDC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS



#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPPORTUNITY. CONFIDENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CODE DATA - CLUBHOUSE

	05/01/2025
PROGRESS DRAWING NOT FOR CONSTRUCTION	23446
	G010D
	CD PROGRESS SET

UNIT INFORMATION

UNIT TYPE	AREA (Net sf)	NO. OF UNITS
1 BED 1 BATH UNIT	673 SF	62
2 BED 1 BATH UNIT	945 SF	72
2 BED 2 BATH UNIT	945 SF	48
3 BED 2 BATH UNIT	1209 SF	38
	TOTAL	220

BUILDING INFORMATION

BUILDING TYPE:	GROSS AREA PER FLOOR	NO OF STORIES	TOTAL GROSS SF PER BLDG	NO. OF BUILDINGS:	NUMBER OF UNITS PER BUILDING:	UNIT COMPOSITIONS				
						1 BED 1 BA UNIT	2 BED 1BA UNIT	2 BED 2 BA UNIT	3 BED 2 BA UNIT	UNIT COUNT x NO. OF BUILDINGS:
BUILDING A	8068 SQFT	3	24205 SQFT	5	24 UNITS	12	12	0	0	120
BUILDING B	10223 SQFT	3	30669 SQFT	3	24 UNITS	0	0	12	12	72
BUILDING C	4340 SQFT	3	13020 SQFT	2	12 UNITS	0	06	06	0	24
BUILDING D (CH)	4472 SQFT	2	8955 SQFT	1	4 UNITS	02	0	0	2	4
GARAGE BLDG G1	1470 SQFT	1	1470 SQFT	6	6 GARAGE UNITS					
GARAGE BLDG G2	2951 SQFT	1	2951 SQFT	1	12 GARAGE UNITS				TOTAL UNIT COUNT	220

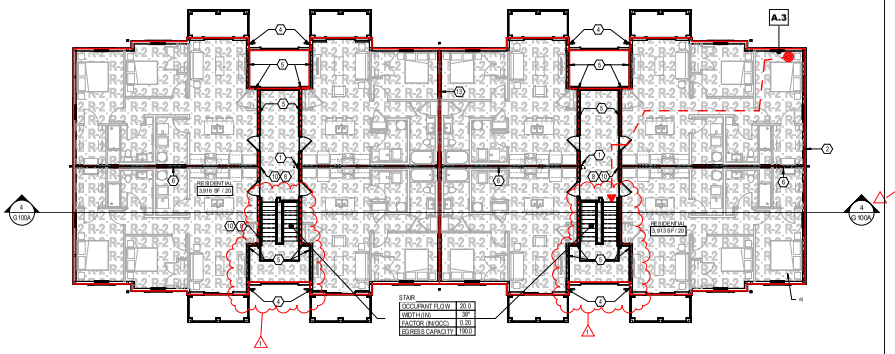
TOTAL UNIT COUNT - 220
NO OF TYPE A UNITS - 10
1- 1 BED TYPE A IN BUILDING A (5 TOTAL)
1- 3 BED TYPE A IN BUILDING B (3 TOTAL)
1- 2 BED/1 BA TYPE A IN BUILDING C (2 TOTAL)

NO OF SENSORY UNITS - 5
NO OF COVERED GARAGE SPOTS - 48

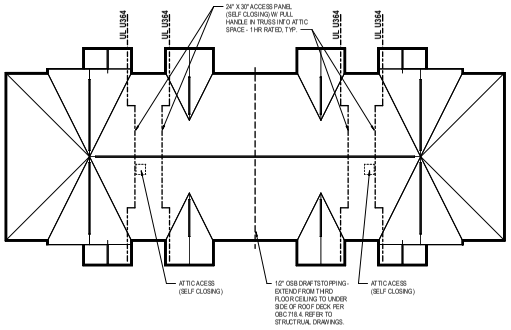
PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:22:50 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23.rvt

© 2025 MOODY NOLAN, INC.

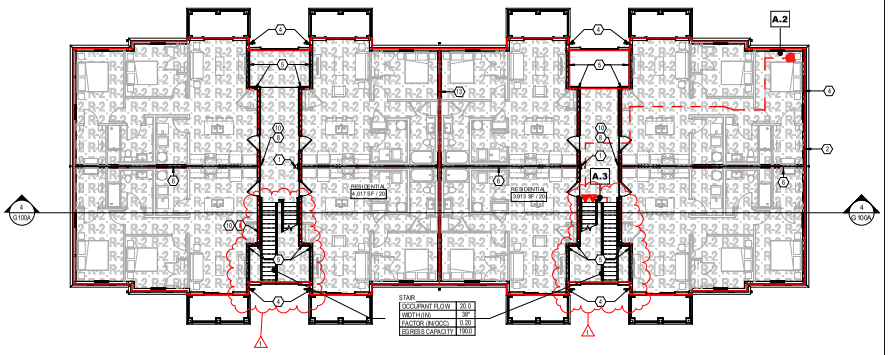
OCCUPANCY LIFE SAFETY (BUILDING A)			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
RESIDENTIAL 2b - APARTMENTS	4,015 SF	200	20
RESIDENTIAL 2b - APARTMENTS	4,017 SF	200	20
	8,033 SF		40
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	3,913 SF	200	20
RESIDENTIAL 2b - APARTMENTS	4,017 SF	200	20
	7,930 SF		40
LEVEL 03			
RESIDENTIAL 2b - APARTMENTS	3,913 SF	200	20
RESIDENTIAL 2b - APARTMENTS	3,916 SF	200	20
	7,829 SF		40
GRAND TOTAL	23,792 SF		120



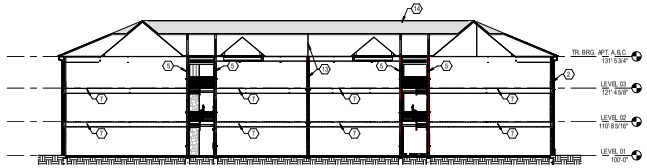
3 **PLAN** BLDG A-LEVEL 03
3/32" = 1'-0"



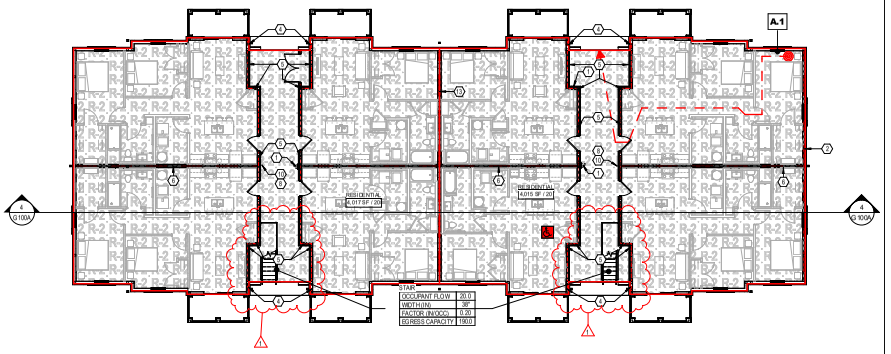
5 **PLAN** BLDG A - ROOF
1/16" = 1'-0"



2 **PLAN** BLDG A-LEVEL 02
3/32" = 1'-0"



4 **SECTION** LIFE SAFETY - BLDG A
1/16" = 1'-0"
REF: 2 / A102A



1 **PLAN** BLDG A-LEVEL 01
3/32" = 1'-0"

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. 5.0lbs RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING A AND BUILDING T TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305.
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U206
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR CEILING ASSEMBLY - UL L557
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL - UL U341. PROVIDE 10" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTRUAL DRAWINGS.
14. ROOF SIGNAGE (TYPE C)
15. BATHROOM SIGNAGE (INTERIOR SIGNAGE TYPE E)

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FDC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR	
OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.00
EGRESS CAPACITY	0.0

DOOR	
OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.3
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1000 SF / 1,000 — OCCUPANT LOAD
AREA SF
PATH OF EGRESS TRAVEL
A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

2 R-2	RESIDENTIAL R-2	A-2 A	ASSEMBLY A-2
2 S-2	STORAGE S-2	A-3 A	ASSEMBLY A-3
B B	BUSINESS B	U	UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	75'-0"	20'-3"	125'-0"	COMMON	95'-3"
A.3	68'-8"	41'-6"	125'-0"	COMMON	110'-2"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	80'-6"	20'-3"	125'-0"	COMMON	100'-9"
B.3	78'-9"	41'-6"	125'-0"	COMMON	120'-3"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	73'-0"	0"	125'-0"	COMMON	73'-0"
C.3	76'-4"	41'-6"	125'-0"	COMMON	118'-10"
D1	90'-7"	0"	125'-0"	COMMON	90'-7"
D2	98'-3"	24'-0"	125'-0"	COMMON	130'-3"
G1	3'-1 0"	0"	125'-0"	COMMON	3'-1 0"
G2	3'-1 0"	0"	125'-0"	COMMON	3'-1 0"

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT · CONSTRUCTION · COLLABORATION

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LIFE SAFETY

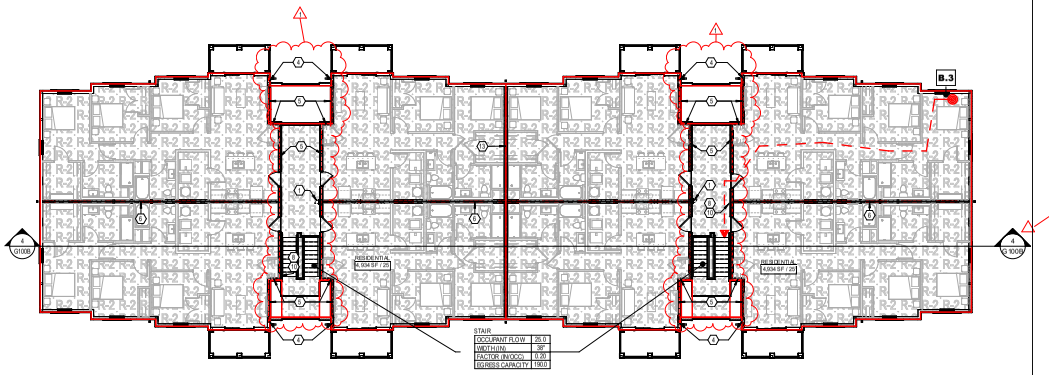
05/01/2025
23446
G100A
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

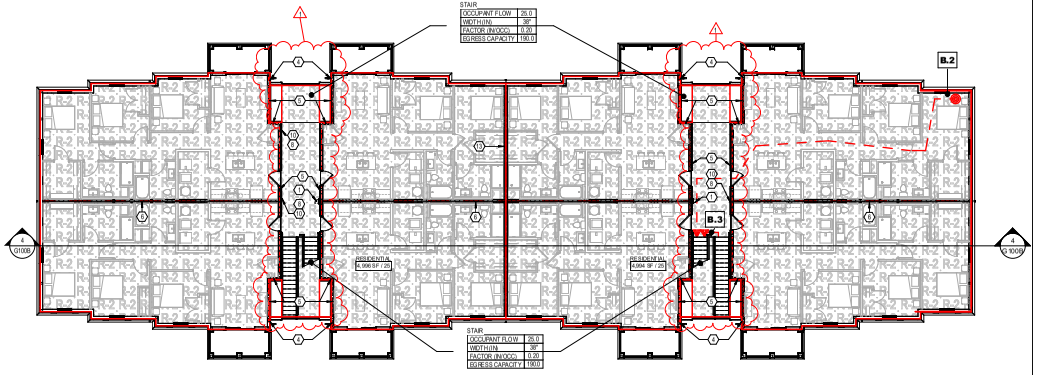
PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:23:16 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dev/23446_CMHA Refugee Rd Housing_ARCH_R25.rvt

© 2025 MOODY NOLAN, INC.

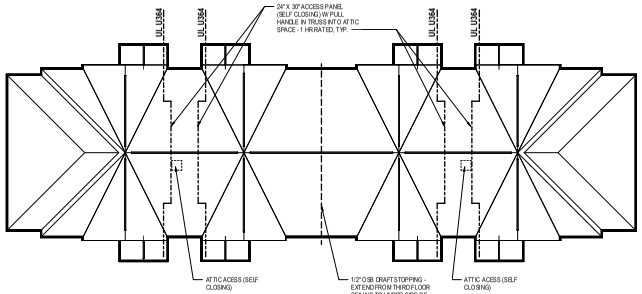
OCCUPANCY LIFE SAFETY (BUILDING B)			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
RESIDENTIAL 2b - APARTMENTS	5,072 SF	200	25
RESIDENTIAL 2b - APARTMENTS	5,073 SF	200	25
	10,145 SF		50
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	4,994 SF	200	25
RESIDENTIAL 2b - APARTMENTS	4,996 SF	200	25
	9,990 SF		50
LEVEL 03			
RESIDENTIAL 2b - APARTMENTS	4,934 SF	200	25
RESIDENTIAL 2b - APARTMENTS	4,934 SF	200	25
	9,868 SF		50
GRAND TOTAL	30,002 SF		150



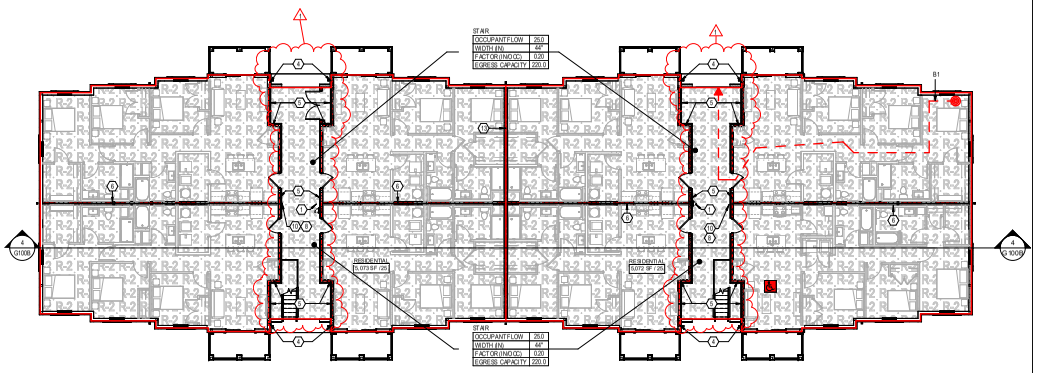
3 **PLAN** BLDG B-LEVEL 03
3/32" = 1'-0"



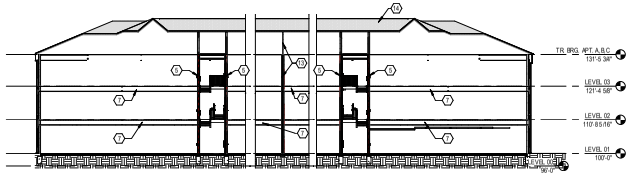
2 **PLAN** BLDG B-LEVEL 02
3/32" = 1'-0"



5 **PLAN** BLDG B - ROOF
1/16" = 1'-0"



1 **PLAN** BLDG B-LEVEL 01
3/32" = 1'-0"



4 **SECTION** LIFE SAFETY - BLDG B
1/16" = 1'-0" REF: 1 / G100B

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. 5 LBM RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING A AND BUILDING T TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305.
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U206
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR CEILING ASSEMBLY - UL L557
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL - UL U341. PROVIDE 12" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF DRAINAGE SYSTEM.
15. BATHROOM SIGNAGE (INTERIOR SIGNAGE TYPE E)

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FDC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR	
OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.00
EGRESS CAPACITY	0.0

DOOR	
OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.0
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1100 SF / 1200 — OCCUPANT LOAD
AREA SF
PATH OF EGRESS TRAVEL
A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

R-2	RESIDENTIAL R-2	A-2	ASSEMBLY A-2
S-2	STORAGE S-2	A-3	ASSEMBLY A-3
B	BUSINESS B	U	UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	75'-0"	20'-3"	125'-0"	COMMON	95'-3"
A.3	68'-8"	41'-6"	125'-0"	COMMON	110'-2"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	80'-6"	20'-3"	125'-0"	COMMON	100'-9"
B.3	78'-9"	41'-6"	125'-0"	COMMON	120'-3"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	73'-0"	0"	125'-0"	COMMON	73'-0"
C.3	76'-4"	41'-6"	125'-0"	COMMON	118'-10"
D1	90'-7"	0"	125'-0"	COMMON	90'-7"
D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
G1	3'-10"	0"	125'-0"	COMMON	3'-10"
G2	3'-10"	0"	125'-0"	COMMON	3'-10"

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LIFE SAFETY

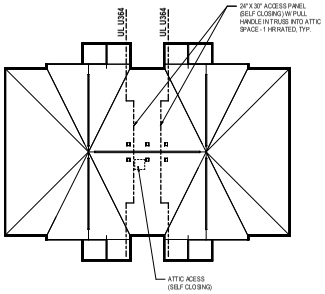
05/01/2025
23446
G100B
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

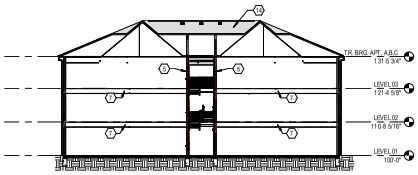
PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:39 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dev/23446_CMHA Refugee Rd Housing_M2024.rvt

© 2025 MOODY NOLAN, INC.

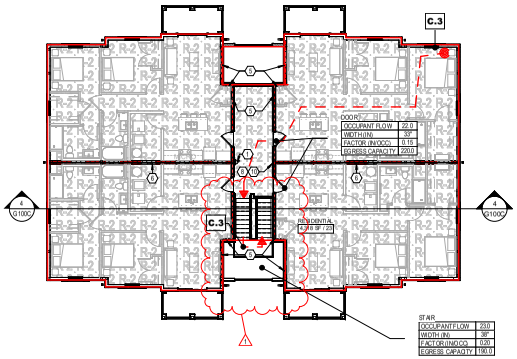
OCCUPANCY LIFE SAFETY (BUILDING C)			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
RESIDENTIAL 2b - APARTMENTS	4,539 SF	200	23
	4,539 SF		23
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	4,325 SF	200	22
	4,325 SF		22
LEVEL 03			
RESIDENTIAL 2b - APARTMENTS	4,318 SF	200	22
	4,318 SF		22
GRAND TOTAL	13,182 SF		67



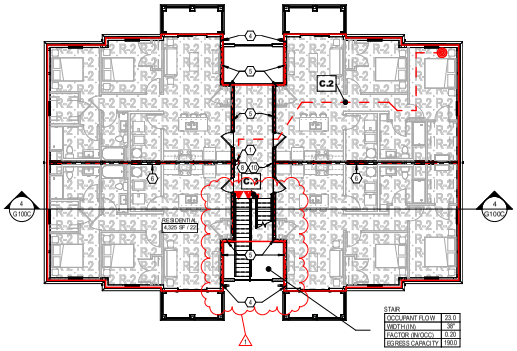
5 **PLAN** BLDG C - ROOF
1/16" = 1'-0"



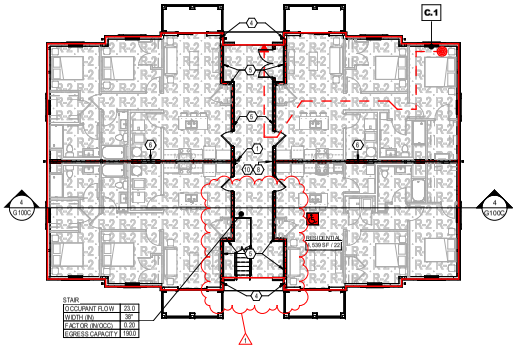
4 **SECTION** LIFE SAFETY - BLDG C
1/16" = 1'-0" REF: 1 / G100C



3 **PLAN** BLDG C-LEVEL 03
3/32" = 1'-0"



2 **PLAN** BLDG C-LEVEL 02
3/32" = 1'-0"



1 **PLAN** BLDG C-LEVEL 01
3/32" = 1'-0"

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. 5/8IM RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING A AND BUILDING T TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305.
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U306
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL L527
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL - UL U341. PROVIDE 12" D BB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOF DRAIN SIGNAGE (TYP.)
15. BATHROOM SIGNAGE (INTERIOR SIGNAGE TYPE E)

FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FDC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS

STAIR	
OCCUPANT FLOW	0.0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.00
EGRESS CAPACITY	0.0

DOOR	
OCCUPANT FLOW	0
WIDTH (IN)	0"
FACTOR (IN/OCC)	0.0
EGRESS CAPACITY	0

USE GROUP AREA TAG
GENERAL FUNCTION
SPECIFIC FUNCTION
1000 SF / 1000 — OCCUPANT LOAD
AREA SF
PATH OF EGRESS TRAVEL
A — EGRESS EXIT ROUTE

USE GROUP AREA TYPES

R-2	RESIDENTIAL R-2
A-2	ASSEMBLY A-2
S-2	STORAGE S-2
A-3	ASSEMBLY A-3
B	BUSINESS B
U	UTILITY

EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	75'-0"	20'-3"	125'-0"	COMMON	95'-3"
A.3	68'-8"	41'-6"	125'-0"	COMMON	110'-2"
B.1	85'-5"	0"	125'-0"	TOTAL	85'-5"
B.2	80'-6"	20'-3"	125'-0"	COMMON	100'-9"
B.3	78'-9"	41'-6"	125'-0"	COMMON	120'-3"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	73'-0"	0"	125'-0"	COMMON	73'-0"
C.3	76'-4"	41'-6"	125'-0"	COMMON	118'-10"
D1	90'-7"	0"	125'-0"	COMMON	90'-7"
D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
G1	3'-10"	0"	125'-0"	COMMON	3'-10"
G2	3'-10"	0"	125'-0"	COMMON	3'-10"

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C - LIFE SAFETY

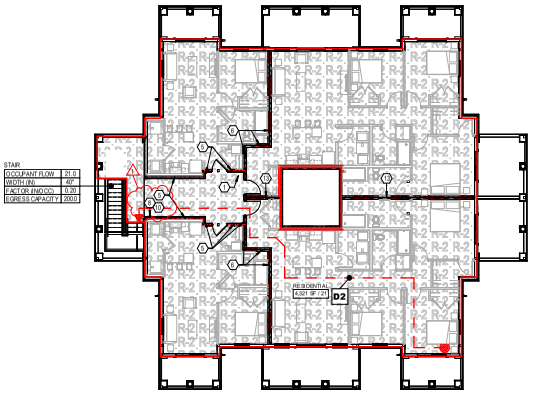
05/01/2025
23446
G100C
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

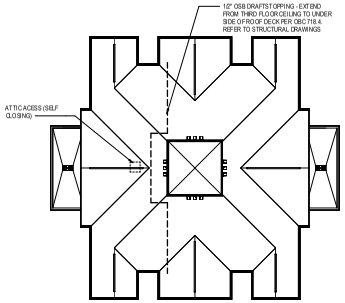
PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:36 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23.rvt

© 2025 MOODY NOLAN, INC.

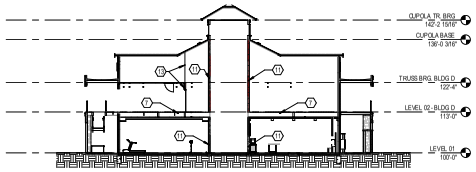
OCCUPANCY LIFE SAFETY - CLUBHOUSE			
USE GROUP KEY	AREA	OCCUPANCY RATE	OCCUPANCY LOAD
LEVEL 01			
STORAGE 2	99 SF	300	1
BUSINESS	186 SF	150	2
BUSINESS	186 SF	15	13
STORAGE 2	275 SF	300	1
ASSEMBLY 3a - AUDITORIUMS	883 SF	15	59
ASSEMBLY 3a - AUDITORIUMS	1,031 SF	50	21
BUSINESS	1,471 SF	150	10
	4,131 SF		107
LEVEL 02			
RESIDENTIAL 2b - APARTMENTS	4,321 SF	200	21
	4,321 SF		21
GRAND TOTAL	8,452 SF		128



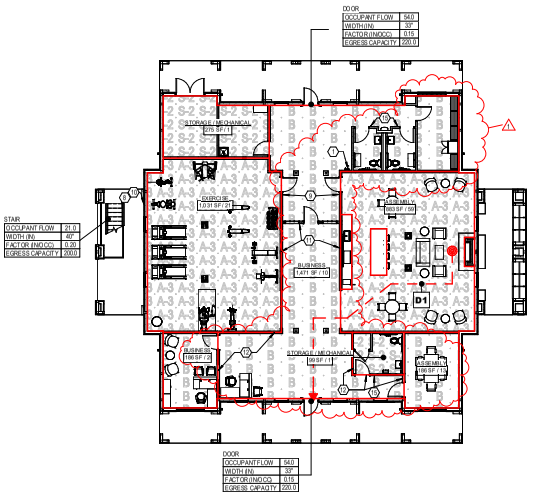
2 PLAN CLUBHOUSE-LEVEL 02
3/32" = 1'-0"



4 PLAN BLDG D - ROOF
1/16" = 1'-0"



3 SECTION LIFE SAFETY - CLUBHOUSE
1/16" = 1'-0"



1 PLAN CLUBHOUSE-LEVEL 01
3/32" = 1'-0"

GENERAL NOTES - CODE PLAN

A. NOT USED

CODED NOTE LEGEND

1. 5/8M RECESSED FIRE EXTINGUISHER CABINET.
2. WALL IN BUILDING A AND BUILDING T TO BE 1 HOUR RATED, AS FIRE SEPERATION DISTANCE IS LESS THAN 10'. SEE G011, ONE HOUR RATED EXTERIOR WALL - UL U305.
3. ONE HOUR RATED EXTERIOR WALL - UL U305
4. ONE HOUR RATED EXTERIOR WALL - UL U206
5. ONE HOUR FIRE BARRIER UP TO ROOF SHEATHING - UL U364
6. ONE HOUR RATED DEMISING WALL - UL U341
7. FLOOR-CEILING ASSEMBLY - UL L557
8. FLOOR IDENTIFICATION SIGN.
9. MAXIMUM OCCUPANCY SIGN.
10. STAIR SIGN.
11. ONE HOUR RATED BEARING WALL - UL U305
12. ONE HOUR RATED NON BEARING WALL - UL U305
13. ONE HOUR RATED DEMISING WALL - UL U341. PROVIDE 12" OSB DRAFTSTOPPING - EXTEND FROM THIRD FLOOR CEILING TO UNDER SIDE OF ROOF DECK. REFER TO STRUCTURAL DRAWINGS.
14. ROOM SIGNAGE (INTERIOR SIGNAGE TYPE A)
15. BATHROOM SIGNAGE (INTERIOR SIGNAGE TYPE E)

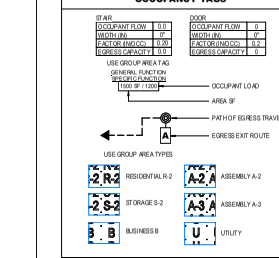
FIRE EQUIPMENT LEGEND

FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER AND CABINET
FDC	FIRE DEPARTMENT CONNECTION

RATED WALL LEGEND

- NON-RATED INSULATED WALL
- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE PARTITION
- 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED FIRE BARRIER
- 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL
- 1 HOUR RATED BEARING WALL / FIRE PARTITION
- INSULATED 1 HOUR RATED BEARING WALL / FIRE PARTITION
- 1 HOUR RATED BEARING WALL / FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

OCCUPANCY TAGS



EXIT ACCESS TRAVEL DISTANCES BLDG B

EGRESS EXIT ROUTE	EGRESS PATH DISTANCE	STAIR DISTANCE	ALLOWABLE DISTANCE	TYPE	TOTAL
A.1	74'-4"	0"	125'-0"	TOTAL	74'-4"
A.2	75'-0"	20'-3"	125'-0"	COMMON	95'-3"
A.3	68'-8"	41'-6"	125'-0"	COMMON	110'-2"
B.1	80'-5"	0"	125'-0"	TOTAL	80'-5"
B.2	80'-6"	20'-3"	125'-0"	COMMON	100'-9"
B.3	78'-9"	41'-6"	125'-0"	COMMON	120'-3"
C.1	74'-5"	0"	125'-0"	TOTAL	74'-5"
C.2	73'-0"	0"	125'-0"	COMMON	73'-0"
C.3	76'-4"	41'-6"	125'-0"	COMMON	118'-10"
D1	90'-7"	0"	125'-0"	COMMON	90'-7"
D2	96'-3"	24'-0"	125'-0"	COMMON	120'-3"
G1	3'-10"	0"	125'-0"	COMMON	3'-10"
G2	3'-10"	0"	125'-0"	COMMON	3'-10"

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

CLUBHOUSE - LIFE SAFETY

05/01/2025

23446

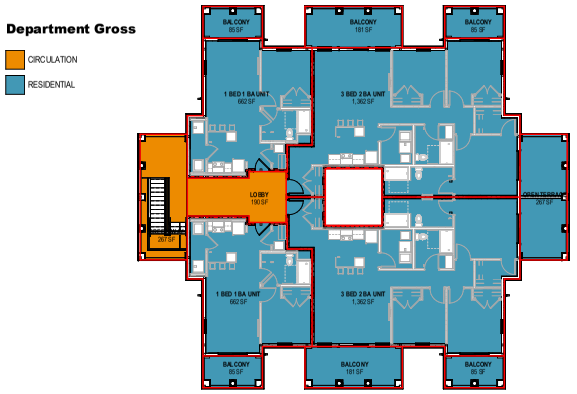
PROGRESS DRAWING NOT FOR CONSTRUCTION

G100D

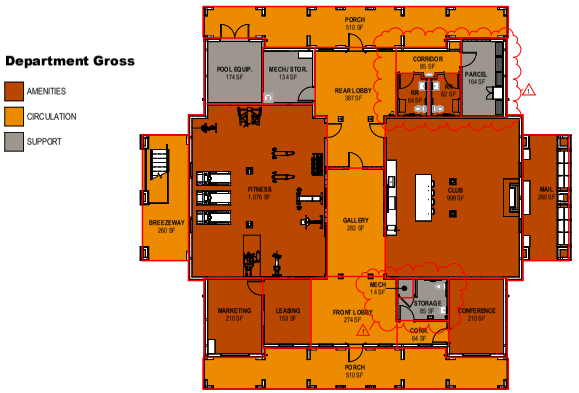
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:44 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R22/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.



2 **PLAN** CLUBHOUSE - LEVEL 02 - GROSS AREA
3/32" = 1'-0"

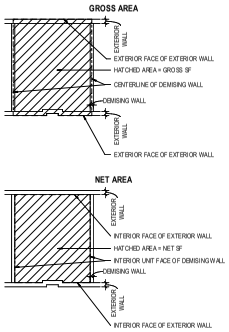


1 **PLAN** CLUBHOUSE - LEVEL 01 - GROSS AREA
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND



#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CLUBHOUSE - GROSS AREA

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
G400D
CD PROGRESS SET

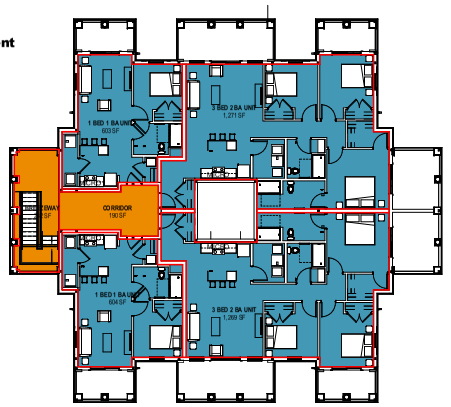
PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:24:50 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.

BUILDING D (BUILDING NET)		
Name	**Department**	**Area**
LEVEL 01		
POOL EQUIP.	SUPPORT	147 SF
MECH./ STOR.	SUPPORT	113 SF
JAN.	SUPPORT	139 SF
REAR LOBBY	CIRCULATION	363 SF
FITNESS	AMENITIES	1,007 SF
CLUB	AMENITIES	944 SF
MARKETING	AMENITIES	180 SF
LEASING	AMENITIES	135 SF
CONFERENCE	AMENITIES	180 SF
CORRIDOR	CIRCULATION	68 SF
GALLERY	CIRCULATION	271 SF
RR	AMENITIES	54 SF
RR	AMENITIES	52 SF
FRONT LOBBY	CIRCULATION	251 SF
CORR.	CIRCULATION	53 SF
STORAGE	SUPPORT	75 SF
MECH	SUPPORT	12 SF
		4,045 SF
LEVEL 02		
BREEZEWAY	CIRCULATION	242 SF
CORRIDOR	CIRCULATION	190 SF
1 BED 1 BA UNIT	RESIDENTIAL	603 SF
1 BED 1 BA UNIT	RESIDENTIAL	604 SF
3 BED 2 BA UNIT	RESIDENTIAL	1,271 SF
3 BED 2 BA UNIT	RESIDENTIAL	1,269 SF
		4,178 SF
Grand total: 23		8,223 SF

Area Department

- CIRCULATION
- RESIDENTIAL



2 PLAN CLUBHOUSE - LEVEL 02 - NET AREA PLAN
3/32" = 1'-0"

Area Department

- AMENITIES
- CIRCULATION
- SUPPORT

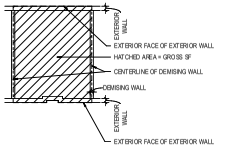
1 PLAN CLUBHOUSE - LEVEL 01 - NET AREA PLAN
3/32" = 1'-0"

GENERAL NOTES - AREA PLANS

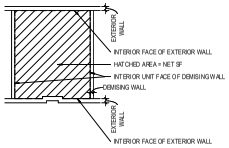
1. THIS SHEET IS AVAILABLE IN COLOR UPON REQUEST.
2. REFER TO OVERALL FLOOR PLANS AND ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.

AREA LEGEND

GROSS AREA



NET AREA



#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

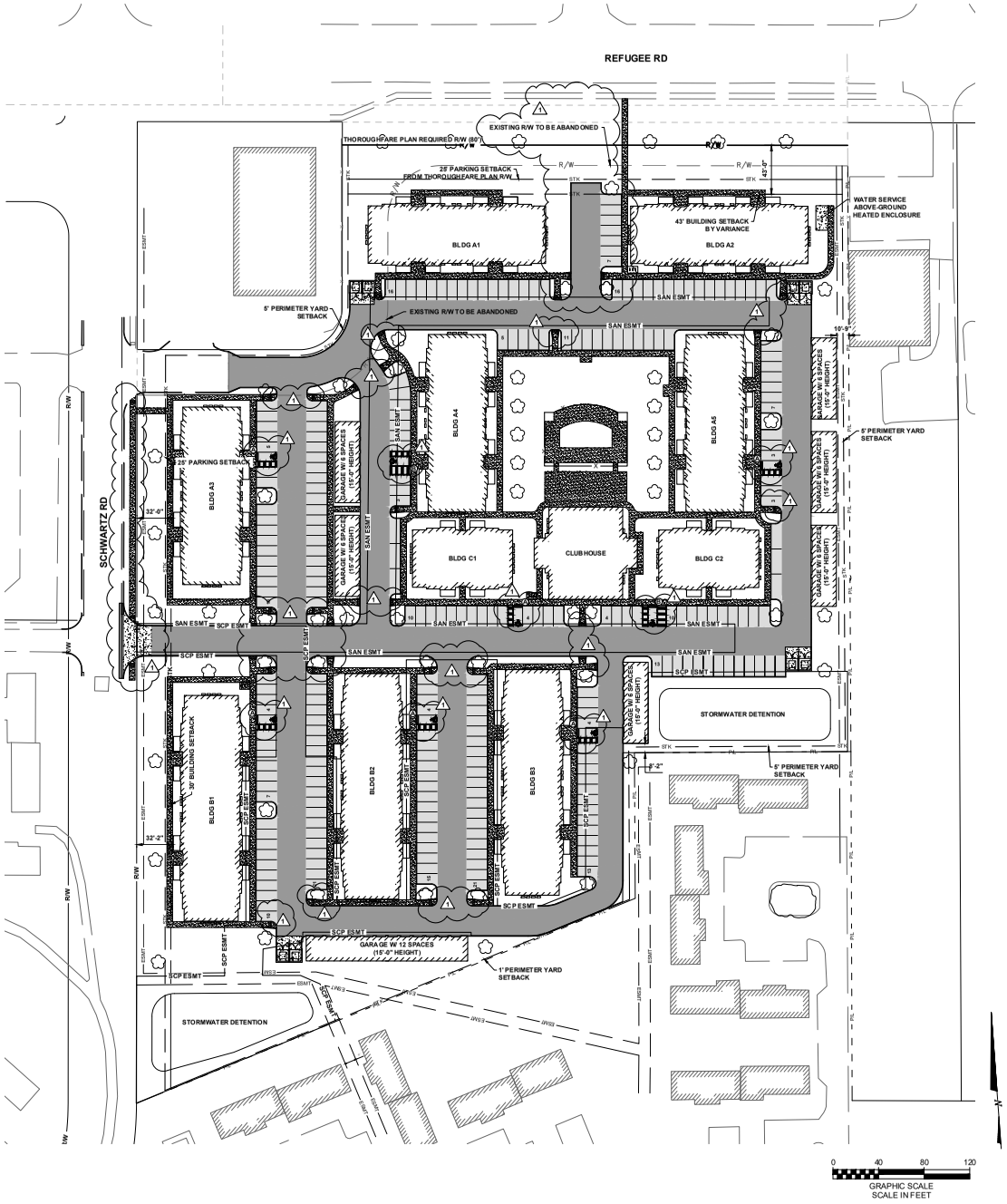
DRAWING TITLE:
CLUBHOUSE - AREA PLANS - NET

05/01/2025
23446
G500D
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:25:18 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dev/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



STAKING LEGEND

EXISTING

- PROPERTY LINE
- RIGHT-OF-WAY
- BUILDING/WALL
- CURB
- PAVEMENT
- WALK
- SETBACK
- EASEMENT
- SURVEY CONTROL POINT
- BENCHMARK
- MONUMENT FOUND, NO. 5 REBAR UNLESS OTHERWISE NOTED.

PROPOSED

- RIGHT-OF-WAY
- EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL L/C107
- PAVEMENT/WALK
- FENCE PER LANDSCAPING PLANS
- PAINTED WHEELCHAIR SYMBOL
- HANDICAPPED PARKING SIGN PER DETAIL B/C108
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE GIVEN TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
2. CURB AND SIDEWALK RADII SHALL BE 5'-0" UNLESS OTHERWISE NOTED.
3. SIDEWALK WIDTH SHALL BE 5'-0" UNLESS OTHERWISE NOTED.
4. PROVIDE STRIPING AND SYMBOLS AS SHOWN PER ODOT ITEM 641 AND 642. PROVIDE STRIPING PAINT WITH GLASS BEADS. PROVIDE TYPE I OR TYPE IA PAINT IN ACCORDANCE WITH ODOT ITEM 642 DEPENDING ON TEMPERATURE CONDITIONS AT THE TIME OF APPLICATION. TYPICAL LINE WIDTH SHALL BE 4 INCHES, COLOR WHITE. PROVIDE TWO COATS.
5. STANDARD PARKING STALL DIMENSIONS ARE 9'-0" IN WIDTH BY 18'-0" IN LENGTH UNLESS OTHERWISE NOTED.
6. ANY PROPERTY PINS DAMAGED AS PART OF CONSTRUCTION SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR.
7. PROVIDE 8 HANDICAP ACCESSIBLE PARKING SIGNS AND 1 VAN ACCESSIBLE PARKING SIGNS. FINAL LOCATION OF SIGNS TO BE DETERMINED BY ARCHITECT.
8. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT BUILDINGS AT ALL TIMES DURING CONSTRUCTION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SITE SIGNAGE NOT SHOWN ON THIS SHEET.
10. BUILDING COORDINATES PROVIDED FOR BUILDING LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR BUILDING LAYOUT.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:

OVERALL STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

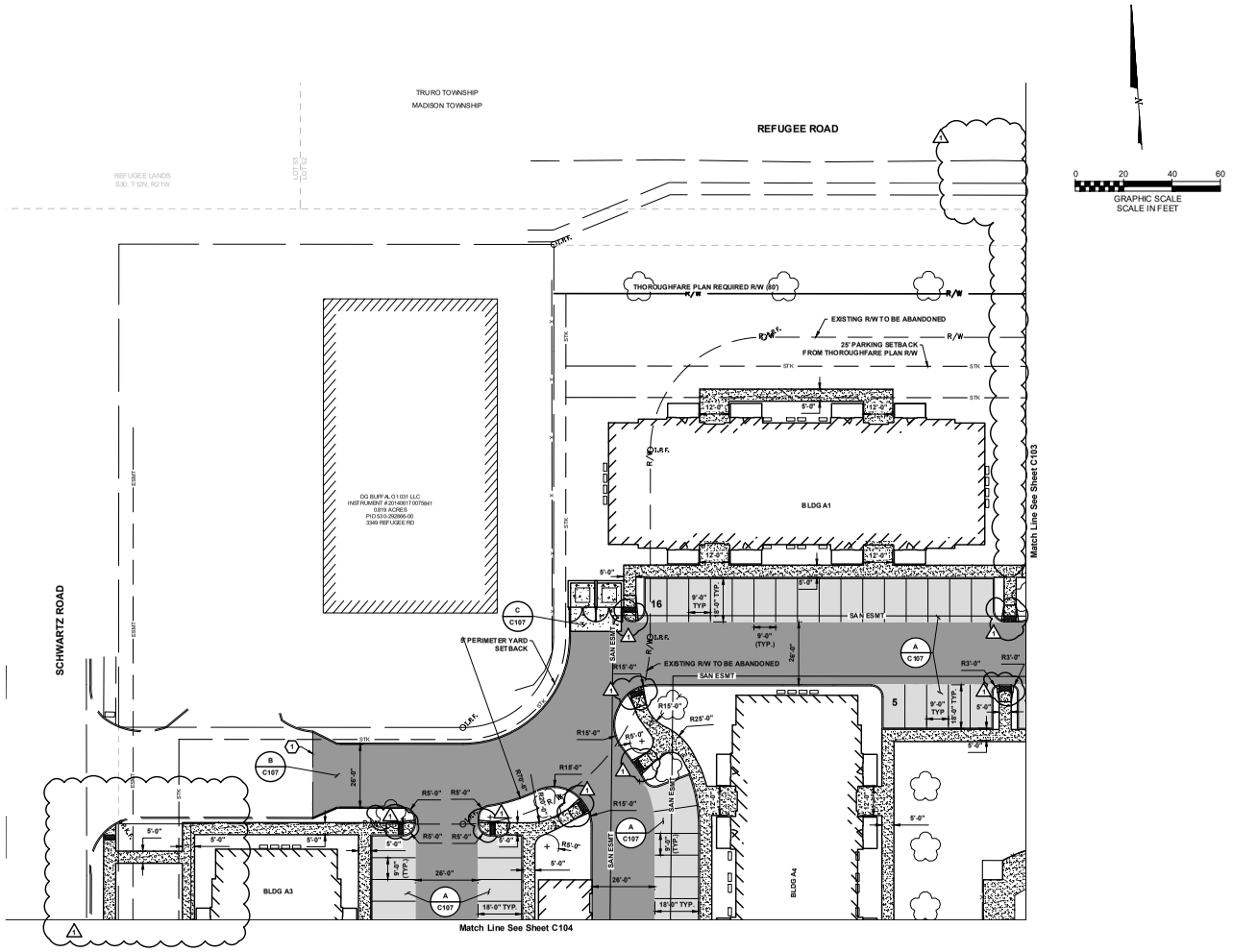
C101

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 10:49 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing_RESIDENCE_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



STAKING LEGEND

EXISTING

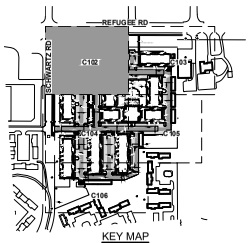
REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL L/C107
- PAVEMENT/WALK
- FENCE PER LANDSCAPING PLANS
- PAINTED WHEELCHAIR SYMBOL
- HANDICAPPED PARKING SIGN PER DETAIL B/C108
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: SAM
DESIGNED BY: SAM
CHECKED BY: RJW
PROJECT NUMBER 2022-0431

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

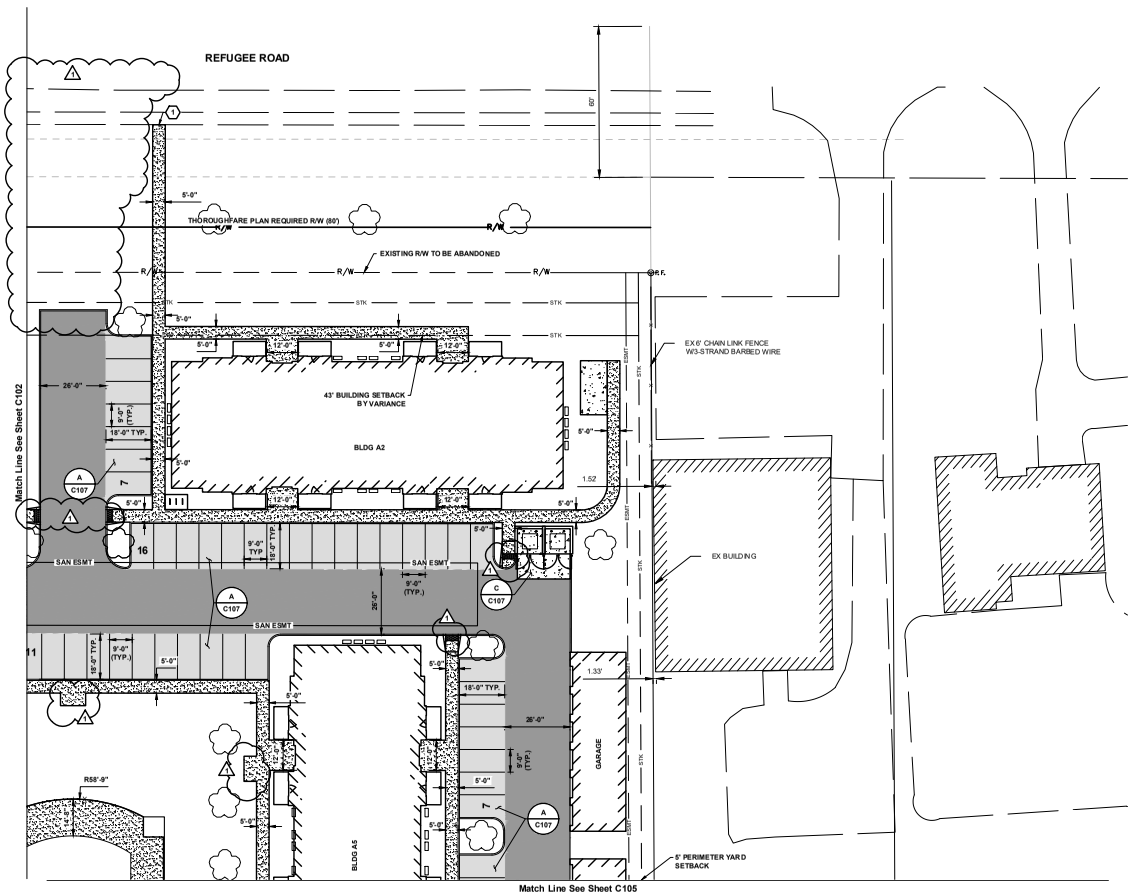
DRAWING TITLE:
STAKING PLAN

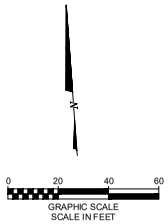
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C102
CD PROGRESS SET

RECIT VERSION: 2023
PRINT DATE: 5/6/2025 10:47 AM
FILE INFO: Autodesk Docs://FALLS CMHA Aspire Housing_R23/FALLS_CMHA Aspire Housing_R23_central.rvt

© 2024 MOODY NOLAN, INC.





STAKING LEGEND

EXISTING

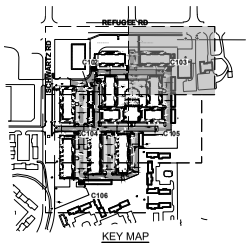
REFER TO SHEET TS1

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL E & L/C107
- PAVEMENT/WALK
- FENCE PER LANDSCAPING PLANS
- PAINTED WHEELCHAIR SYMBOL
- HANDICAPPED PARKING SIGN PER DETAIL B/C108
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: SAM
DESIGNED BY: SAM
CHECKED BY: SJW
PROJECT NUMBER 2022-0431

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

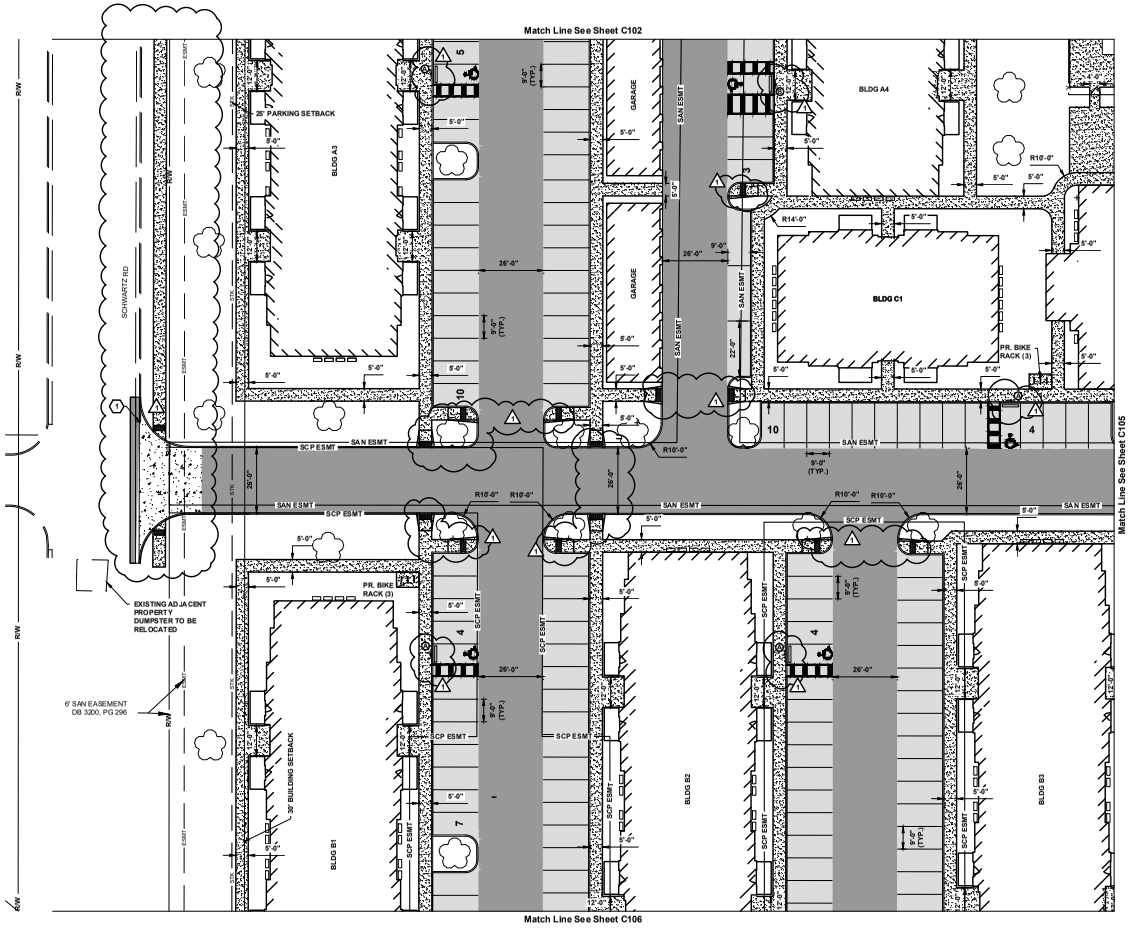
23446

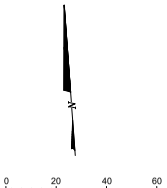
C103

CD PROGRESS SET

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 3:21 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing_R23/2022-0431 CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





STAKING LEGEND

EXISTING

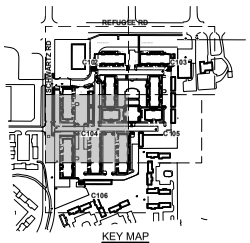
REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL E & L/C107
- PAVEMENT/WALK
- FENCE PER LANDSCAPING PLANS
- PAINTED WHEELCHAIR SYMBOL
- HC — HANDICAPPED PARKING SIGN PER DETAIL B/C108
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

(X) 1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BJW
PROJECT NUMBER: 2022-0431

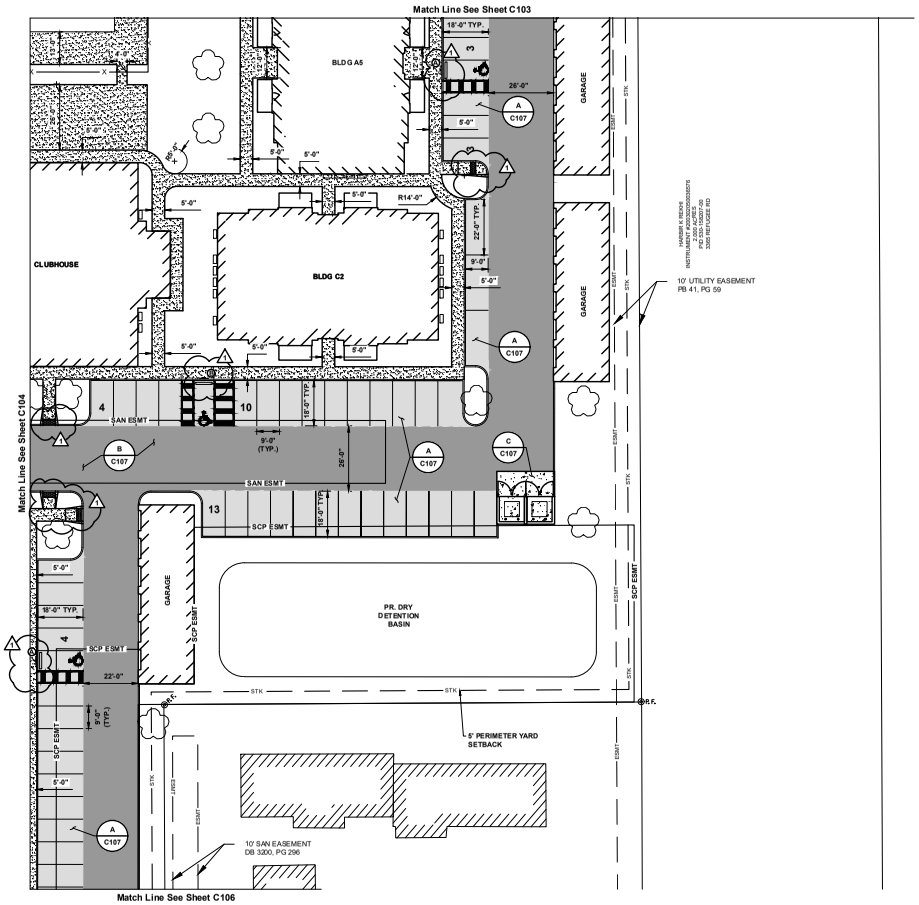
DRAWING TITLE:
STAKING PLAN

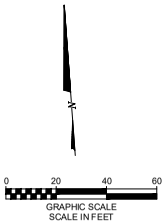
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C104
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/6/2025 10:49 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing_RESIDENCE_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





STAKING LEGEND

EXISTING

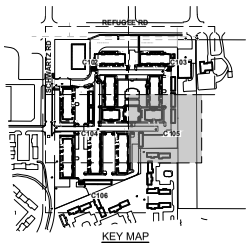
REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL E & L/C107
- PAVEMENT/WALK
- FENCE PER LANDSCAPING PLANS
- PAINTED WHEELCHAIR SYMBOL
- HANDICAPPED PARKING SIGN PER DETAIL B/C108
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:

STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

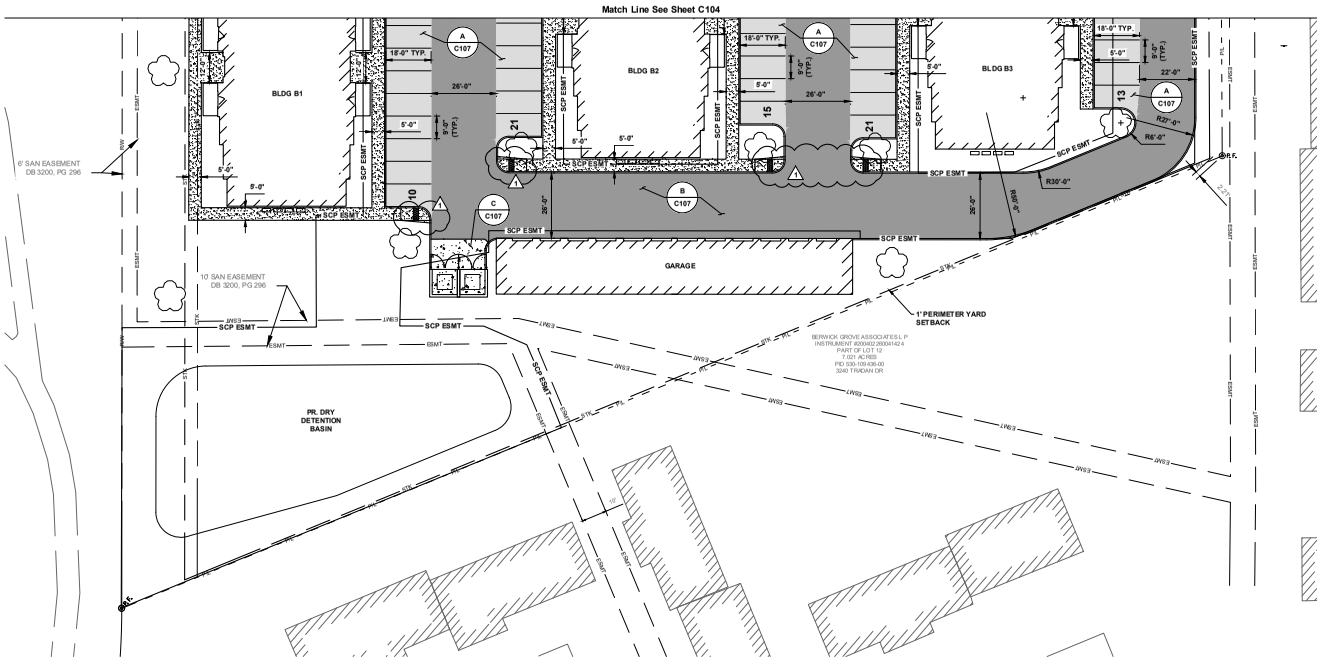
23446

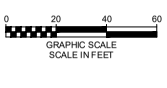
C105

CD PROGRESS SET

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 1:14 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 1ST/2022-0431_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





STAKING LEGEND

EXISTING

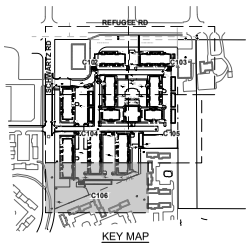
REFER TO SHEET C101

PROPOSED

- R/W — RIGHT-OF-WAY
- ESMT — EASEMENT
- BUILDING/WALL
- STRAIGHT CURB PER DETAIL E & L/C107
- PAVEMENT/WALK
- FENCE PER LANDSCAPING PLANS
- PAINTED WHEELCHAIR SYMBOL
- HANDICAPPED PARKING SIGN PER DETAIL B/C108
- HEAVY DUTY ASPHALT PER DETAIL B/C107
- LIGHT DUTY ASPHALT PER DETAIL A/C107
- CONCRETE SIDEWALK PER COC STD. DWG. 2300
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C107
- DETECTABLE WARNING PER COC STD. DWG. 2319 AND CMSC 608.

CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.



KEY MAP
NTS

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

KORDA
KORDA/ NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

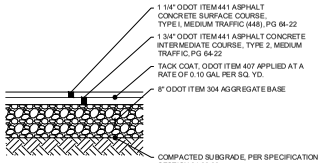
DRAWING TITLE:
STAKING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C106
CD PROGRESS SET

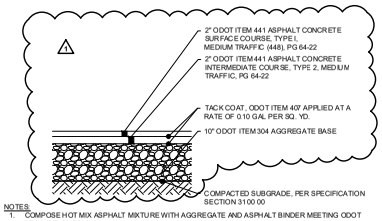
PRINT VERSION: 2023
PRINT DATE: 5/30/2025 4:17 PM
FILE INFO: Autodesk Docs://FALLS CMHA Aspire Housing_R23/FALLS_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN INC.



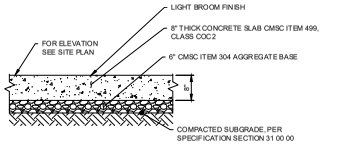
NOTES:
1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA.
4. "THE OWNER'S TESTING AGENCY WILL" PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 448 AND SUPPLEMENTAL SPECIFICATION 1055, "EXCEPT THAT AN INDEPENDENT TESTING LABORATORY WILL PERFORM THE TESTING AND REPORT DATA TO THE OWNER'S REPRESENTATIVE. THE AGENCY PERFORMING THE TESTING MUST HAVE A CURRENT LEVEL I BITUMINOUS CONCRETE APPROVAL FROM ODOT."
5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

A DETAIL
LIGHT DUTY ASPHALT PAVEMENT N.T.S.



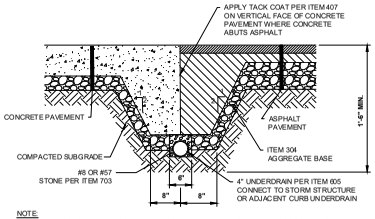
NOTES:
1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA.
4. "THE OWNER'S TESTING AGENCY WILL" PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 448 AND SUPPLEMENTAL SPECIFICATION 1055, "EXCEPT THAT AN INDEPENDENT TESTING LABORATORY WILL PERFORM THE TESTING AND REPORT DATA TO THE OWNER'S REPRESENTATIVE. THE AGENCY PERFORMING THE TESTING MUST HAVE A CURRENT LEVEL I BITUMINOUS CONCRETE APPROVAL FROM ODOT."
5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

B DETAIL
HEAVY DUTY ASPHALT PAVEMENT N.T.S.



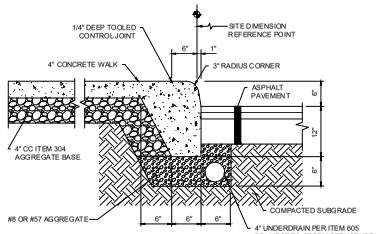
NOTES:
1. PROVIDE JOINTS AS INDICATED ON DRAWINGS. IN ABSENCE OF INFORMATION ON THE DRAWINGS, LOCATE AS SPECIFIED IN SECTION 32 13 00.
2. PROVIDE CONTROL AND ISOLATION JOINTS PER DETAILS F AND G, THIS SHEET.
3. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ.M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.
4. PENETRATING SEALER: ACCEPTABLE PRODUCTS OR APPROVED EQUAL:
   A. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   B. PROSOCO - SALTGUARD WB
   C. HILTI AMERICA INC. - CHEMATRETE BSM 40
   D. MASTER BUILDERS INC. - MASTERSEAL SL 40
   E. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   F. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   G. TEX-COTE - RAINSTOPPER RS 140
5. IF CONCRETE INSTALLED OCTOBER-MARCH, WAIT UNTIL APRIL-SEPTEMBER TO APPLY PENETRATING SEALER. IF SCHEDULE DOES NOT ALLOW FOR APPLICATION OF SEALER, PROVIDE CREDIT FOR NON-PERFORMANCE.

C DETAIL
HEAVY DUTY CONCRETE SLAB N.T.S.



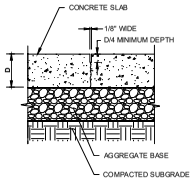
NOTE:
1. CONTRACTOR SHALL PROVIDE TURNDOWN ANYWHERE ASPHALT AND CONCRETE OR CONCRETE BASE PAVEMENT MEET.

D DETAIL
ASPHALT CONCRETE TURNDOWN SLAB N.T.S.



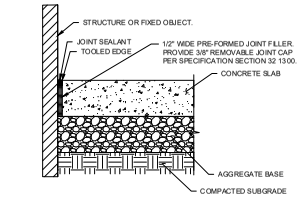
NOTES:
1. PROVIDE CONTROL JOINTS IN CURB AND WALK AS INDICATED IN SPECIFICATION SECTION 32 13 00 AND DETAIL F/C107.

E DETAIL
INTEGRAL CONCRETE WALK AND CURB N.T.S.



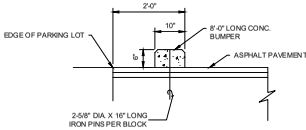
NOTES:
1. PLACE CONTROL JOINTS WITHIN 8 HOURS OF CONCRETE PLACEMENT AND AT LOCATIONS INDICATED ON THE STAKING PLAN. IF JOINTS ARE NOT SHOWN ON STAKING PLAN, PROVIDE AT LOCATIONS INDICATED BELOW:
   A. SPACING (IN FEET) SHALL BE BETWEEN 2 TO 2-1/2 TIMES SLAB THICKNESS (IN INCHES IN BOTH DIRECTIONS (I.E. 4" SLAB SHALL HAVE JOINT SPACING OF 8-10 FEET).
   B. GRID OF CONTROL JOINTS SHALL BE APPROXIMATELY SQUARE WITH LONGEST SIDE TO BE NOT LONGER THAN 1.5 TIMES THE SHORTEST SIDE (I.E. 4 FOOT WIDE WALK SHALL HAVE JOINT SPACING AT 4-6 FEET).

F DETAIL
SAW CUT CONCRETE CONTROL JOINT- LONGITUDINAL OR TRANSVERSE N.T.S.

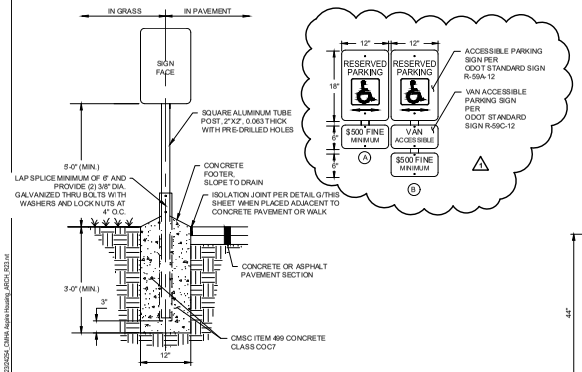


NOTES:
1. PLACE ISOLATION JOINTS WHERE NEW CONCRETE SLAB ABUTS STRUCTURES OR FIXED OBJECTS INCLUDING: BUILDINGS, WALLS, COLUMNS, POLE BASES, CURBS, CATCH BASINS, EXISTING CONCRETE, OR AS NOTED ON THE STAKING PLAN.
2. PROVIDE AT FORMED EDGE OF PREVIOUSLY POURED SLABS. SEAL JOINT WITH JOINT SEALANT, SEE SPECIFICATION SECTION 32 13 00.
3. SUBMIT SAMPLE FOR COLOR APPROVAL. PRE-FORMED JOINT FILLER - NON-IMPREGNATED TYPE, CLOSED CELL RESILIENT POLYETHYLENE FOAM, 1/2" THICK UNLESS OTHERWISE NOTED, CERAMAR FLEXIBLE FOAM EXPANSION JOINT BY W.R. MEADOWS OR EQUAL MEETING THE REQUIREMENTS OF ASTM D 1752 SECTIONS 5.1 THROUGH 5.4. REFER TO SPECIFICATION SECTION 32 13 00.

G DETAIL
CONCRETE ISOLATION JOINT N.T.S.

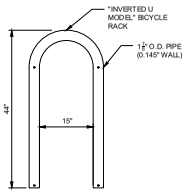


H DETAIL
BUMPER BLOCK N.T.S.



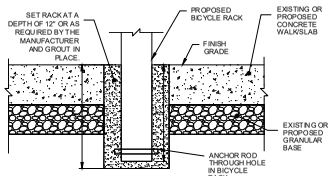
NOTES:
1. PROVIDE SIGN IN ACCORDANCE WITH ODOT ITEM 630.
2. PROVIDE 0.063 THICK, FLAT ALUMINUM SIGN PANELS.
3. PROVIDE REFLECTIVE FINISH ON SIGN.
4. PROVIDE PERMANENT WEATHERPROOF ALUMINUM CAP ON POST TOP.
5. PROVIDE "VAN ACCESSIBLE" SIGN WHERE NOTED ON DRAWINGS.
6. ATTACH SIGNS WITH UNISTRUT UNIVERSAL DRIVE RIVET OR APPROVED EQUAL.
7. ACCESSIBLE SIGNAGE TO BE AS SHOWN UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.

I DETAIL
PARKING SIGNS N.T.S.



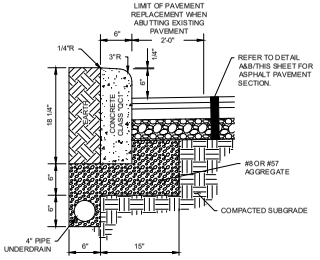
NOTES:
1. RACK SHALL BE HOT DIP GALVANIZED STEEL.
2. COORDINATE COLOR WITH ARCHITECT.

J DETAIL
INVERTED U MODEL BICYCLE RACK N.T.S.



NOTE:
1. EXCAVATE HOLE TO A DEPTH OF 14" FOR PROPOSED BIKE "HITCH" AND GROUT IN PLACE. BIKE HITCH SHALL BE EMBEDDED 12".

K DETAIL
BICYCLE RACK EMBEDMENT N.T.S.



NOTES:
1. ALL EXPOSED SURFACES OF CONCRETE CURB TO BE FLOATED AND BRUSH FINISHED, UNLESS PLACED BY A CURB MACHINE.
2. PROVIDE JOINTS PER SPECIFICATION SECTION "02750" "32 13 00".

L DETAIL
STRAIGHT 18" CONCRETE CURB WITH UNDERDRAIN N.T.S.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DESIGN. DEVELOPER. CONSTRUCTION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
STAKING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C107

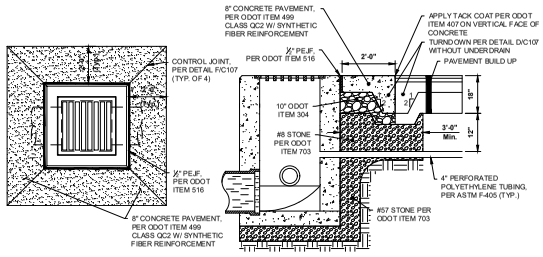
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
16150 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: SAM
DES ONE DBY: SAM
CHECKED BY: SJW
PROJECT NUMBER: 2022-0431

RECIT VERSION: 2023
PRINT DATE: 5/30/2025 2:23 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing - PSD/2022-0431 CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



NOTES:
1. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS INCLUDE:
   a. NYCON NYLON FIBERS
   b. FORTA NYLO-MONO FIBERS
   c. FIBERMESH FIBERMIX, STEALTH POLYPROPYLENE FIBERS
   d. GRACE POLYPROPYLENE FIBERS

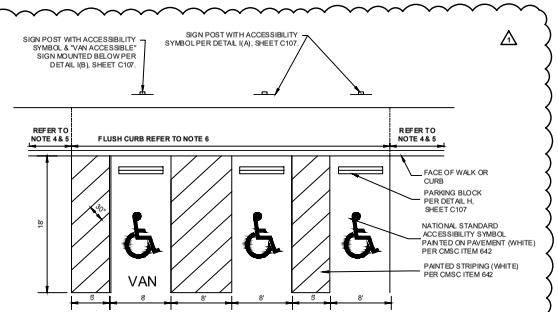
   SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.

2. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/M² IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.

3. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
   a. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   b. PROSOCO - SALTGUARD WB
   c. HULS AMERICA INC. - CHEM-TRETE BSM 40
   d. MASTER BUILDERS INC. - MASTERSEAL SL 40
   e. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   f. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   g. TEX-COTE - RAINSTOPPER RS140

4. PROVIDE CONCRETE COLLAR AT ALL CATCH BASINS AND MANHOLES WITHIN PROPOSED PAVEMENT.

A DETAIL
CONCRETE COLLAR AT CATCH BASINS/MANHOLES N.T.S.



NOTES:
1. PAVEMENT SHALL HAVE A MAXIMUM 2.00% SLOPE IN ALL DIRECTIONS IN THE AREA OF HANDICAP PARKING AND ASSOCIATED STRIPING.
2. ALL CURB RAMPS AND SIDEWALKS SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) OF 1990, INCLUDING ALL SUPPLEMENTS OR REPLACEMENT DRAWINGS ISSUED THERETO.
3. HANDICAP PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.
4. TRANSITION FROM FLUSH CURB TO FULL HEIGHT CURB AS DESIGNATED ON GRADING PLAN. SLOPE WALK TO MATCH CURB.
5. TRANSITION CURB AND WALK TO FULL HEIGHT OVER 10' OR 5% SLOPE MAX.
6. FLUSH CURB AND WALK SHALL BE A MAXIMUM OF 2.00% SLOPE IN ALL DIRECTIONS.

B DETAIL
ADA PARKING STRIPING N.T.S.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATING OPPORTUNITY, COLUMBUS

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:
STAKING DETAILS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	GAM
DESIGNED BY:	GAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C108

CD PROGRESS SET

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 3:14 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing - RESIDENCE, CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.

CITY OF COLUMBUS, FRANKLIN COUNTY, OHIO
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD HOUSING DEVELOPMENT 2024

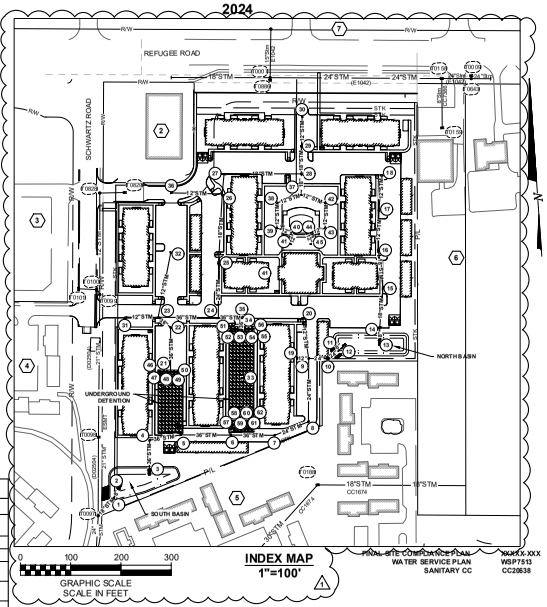
ESTIMATE OF QUANTITIES

These quantities have been provided only as an estimate to the scope of the work for inspection purposes only. The Contractor is soley responsible to evaluate the complete project as detailed in the notes, plans, and specifications and procedures necessary for the completion of the plan improvements and submit his total project cost accordingly. Deviation between the plans and the quantities shall not be cause for additional compensation. Submission of bid means acceptance of entire project, whether or not described in the table below.
Calculated By: EAM Date: 5/21/2025 Checked By: EJW Date: 5/21/2025

ITEM	QUANTITY	UNIT	DESCRIPTION
			RIGHT OF WAY
202	316	SF	WALK REMOVED AND DISPOSED
452	79	SY	9" NONREINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
608	550	SF	4" CONCRETE WALK
608	2	EA	DETECTABLE WARNING, CAST IRON
608	2	EA	CURB RAMP
609	80	LF	CONCRETE CURB, PER STD. DWG. 2000
			EROSION CONTROL
207	1	EA	STABILIZED CONSRUCTION ENTRANCE
207	45	EA	INLET PROTECTION
207	1	EA	CONCRETE WASHOUT
207	2451	LF	SILT FENCE
207	14807	SF	EROSION MATTING
SPEC	2	EA	SEDIMENT DEPTH MONITOR
			STORM SEWER
601	420	CY	ROCK CHANNEL PROTECTION, TYPE "C"
604	12	EA	CATCH BASIN PER AA-S133A
604	9	EA	CATCH BASIN, PER AA-S133B
604	11	EA	CURB INLET PER AA-S120
604	2	EA	MANHOLE, TYPE "C" PER AA-S102 W/ FRAME AND CASTING PER AA-S121
604	18	EA	MANHOLE, TYPE "C" PER AA-S102
604	1	EA	OUTLET STRUCTURE PER DETAL A/C210
604	1	EA	OUTLET STRUCTURE PER DETAL B/C210
604	1	EA	OUTLET STRUCTURE PER DETAL A/C211
604	1	EA	VERTICAL ORIFICE PLATE PER STD. DWG. AA-S M5
901	1102	LF	12" STORM PIPE, WITH TYPE 1 BEDDING
901	496	LF	18" STORM PIPE, WITH TYPE 1 BEDDING
901	960	LF	24" STORM PIPE, WITH TYPE 1 BEDDING
901	528	LF	36" STORM PIPE, WITH TYPE 1 BEDDING
SPEC	1	LS	ADS MC-3500 UNDERGROUND STORMWATER DETENTION STRUCTURE (299 CHAMBERS, 30 END CAPS, 14 INSPECTION PORTS)
SPEC	2111	CY	EMBEDMENT STONE
SPEC	4231	SY	NON-WOVEN GEOTEXTILE FABRIC
SPEC	1	EA	ALUMINUM WEIR PLATE W/ 36" X 12" ORIFICE & 3.6" DIA. ORIFICE
SPEC	1	EA	NEENAH R-3700 ORIFICE COVER
SPEC	3	LS	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION FOR POST-CONSTRUCTION STORMWATER CONTROL PRACTICE
SPEC	1	LS	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION FOR TEMPORARY SEDIMENT BASINS
SPEC	4	EA	ANTI SEEP COLLAR PER DETAIL F/10(C210)
SPEC	4	EA	HEADWALL PER DETAIL E/11(C211)

PROPERTY OWNERS

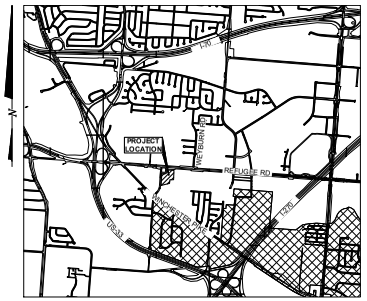
X	OWNER NAME	PARCEL	ADDRESS	ACREAGE
1	COLUMBUS METROPOLITAN HOUSING AUTHORITY	530156568	3349 REFUGEE RD	8.55
2	DG BUFFALO 1031 LLC	530-292866	3349 REFUGEE RD	0.82
3	THOMPSON JAMES T	530-182793	3333 REFUGEE RD	0.26
4	BERWICK GROVE ASSOCIATES L P	530-156558	2815 BERWICK SQ	10.08
5	BERWICK GROVE ASSOCIATES L P	530-109436	3240 TRADAN DR	7.05
6	REKHI HARBIR K	530-158207	3365 REFUGEE RD	2.01
7	FIRST CHURCH OF GOD INC	010-100331	3480 REFUGEE RD	92.13



INDEX MAP
1"=100'

FINAL SITE COMPLIANCE PLAN
WATER SERVICE PLAN
SANITARY CC

XX-XXX-XXX
WSP7513
CC20638



LOCATION MAP
(NOT TO SCALE)

ARCHITECT

NAME MOODY NOLAN
ADDRESS 300 SPRUCE ST SUITE 300
CONTACT: ANUP JANARDHANAN
P: 614-461-4664
EMAIL: ANUPJ@MOODYNOLAN.COM

OWNER

NAME COLUMBUS METROPOLITAN HOUSING AUTHORITY
ADDRESS 880 E 11TH AVE
CONTACT: MIKE WAGNER
P 614-421-6000
EMAIL: MWAGNER@CMHANET.COM

ENGINEER

NAME KORDA/NEMETH ENGINEERING
ADDRESS 1650 WATERMARK DR
CONTACT: ERIC WALSH
P: 614-487-1650
EMAIL: ERIC.WALSH@KORDA.COM

SHEET INDEX

CC SHEET	SHEET	DESCRIPTION
1/25	C201	TITLE SHEET
2-3/25	(C202-C203)	GENERAL NOTES
4/25	(C204)	OVERALL STORM SEWER & GRADING PLAN
5-9/25	(C205-C209)	STORM SEWER & GRADING PLAN
10-13/25	(C210-C213)	STORM SEWER DETAILS
14-16/25	(C214-C216)	STORM SEWER PROFILES
17/25	(C217)	OVERALL EROSION AND SEDIMENT CONTROL PLAN
18-22/25	(C218-C222)	EROSION AND SEDIMENT CONTROL PLAN
23-24/25	(C223-C224)	EROSION AND SEDIMENT CONTROL DETAILS

STANDARD DRAWINGS

THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEREOF.

AA-168	AA-S141
AA-S133A	1441 (7/1/2024)
AA-S133B	2000 (7/1/2023)
AA-S102	2202 (7/1/2023)
AA-S120	2300 (7/1/2023)
AA-S121	

SANITARY SEWER NOTE

CONNECTION TO SANITARY SEWER CANNOT BE MADE UNTIL PERMIT IS OBTAINED FROM SEWER PERMIT OFFICE AT 111N. FRONT ST. (614) 645-7490. SANITARY SERVICES ARE SHOWN ON THIS PLAN FOR REFERENCE ONLY. APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THE SANITARY SERVICES, OR THEIR LOCATIONS. CONTACT THE DPU PERMIT OFFICE AT 111 N. FRONT ST FOR SANITARY SERVICE APPROVAL.

SCP WATER QUALITY STRUCTURE NOTE

THE WATER QUALITY STRUCTURES 1, 5 AND 11 ARE STORMWATER CONTROL PRACTICES (SCP) AND ARE AN INTEGRAL PART OF THE PRIVATE STORM SEWER SYSTEM DEPICTED IN THESE DRAWINGS. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THESE STORMWATER QUALITY DIVICES IS PERPETUAL, BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM. STORM WATER QUALITY DESIGN FOR THIS PROJECT IS COMPLIANT WITH OHIO EPA GENERAL CONSTRUCTION STORM WATER PERMIT N . OHC000006, ISSUED APRIL 23, 2023.

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES

CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	PLAN VIEW & DETAIL PAGE NUMBERS FOR SCP	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY	FACILITY TYPE	GREEN INFRASTRUCTURE (SQUARE FEET)
1	9(C209) & A/10(C210)	QUALITY & QUANTITY	0.84	EXTENDED DRY DETENTION BASIN	N/A
5	9(C209) & B/10(C210)	QUALITY & QUANTITY	6.79	UNDERGROUND DETENTION	N/A
11	8(C208) & 10(C210)	QUALITY & QUANTITY	1.67	EXTENDED DRY DETENTION BASIN	N/A

NOTE 1: THESE SCP FACILITIES ALSO PROVIDE STORM WATER QUANTITY AND QUALITY CONTROLS FOR IMPROVEMENTS AS SHOWN ON THIS CC PLAN.

100 YEAR DETENTION TABLE

LOCATION	OUTLET CONTROL STRUCTURE	DETENTION VOLUME REQUIRED (CF)	DETENTION VOLUME PROVIDED (CF)	VOLUME PROVIDED AT ELEVATION	100 YEAR ELEVATION	VOLUME PROVIDED AT 100 YR ELEV.
SOUTH BASIN	1	19,783	19,894**	757.00	756.98	19,825**
UNDERGROUND DETENTION	5	51,576	56,116**	758.20*	757.43	51,620**
NORTH BASIN	11	14,517	15,598**	758.00	757.84	14,453**
PIPE STORAGE	N/A	N/A	2,102	N/A	N/A	2,102
TOTAL	N/A	85,876	91,608	758.20	N/A	85,898

*ELEV. 758.20 - TOP OF UNDERGROUND STORAGE SYSTEM
**INCLUDES PIPE STORAGE

NOTE 1: DETENTION CONTROL PRACTICE (SCP) AS-BUILTS AND CERTIFICATION ARE REQUIRED FOR THE CONSTRUCTED SCPs ON THIS PLAN SET AS PART OF THE SURETY REQUIREMENTS FOUND WITHIN THE STORMWATER DRAINAGE MANUAL (SWDM) SECTION 4. PLEASE REFER TO SECTION 4 OF THE SWDM FOR THE FULL LIST OF REQUIREMENTS. PLEASE NOTE THAT IF THERE ARE STONE LAYERS USED AS PART OF THE STORAGE SYSTEM THAT THOSE LAYERS MUST BE SURVEYED DURING THE INSTALLATION BY OR UNDER THE DIRECT SUPERVISION OF A LICENSED SURVEYOR.

SITE DATA TABLE

CMHA REFUGEE ROAD SITE

TOTAL SITE:	9.22 AC.
TOTAL SITE "DISTURBED".*	9.30 AC.
DISTURBED IMPERVIOUS AREA:	0.01 AC.
TOTAL R/W DISTURBED:	0.08 AC.
PRE-DEVELOPMENT IMPERVIOUS:	0.01 AC.
POST-DEVELOPMENT IMPERVIOUS:	6.47 AC.

*INCLUDES R/W DISTURBANCE R/W DISTURBANCE IS ADDRESSED AND ACCOUNTED FOR WITH DETENTION PROVIDED UNDER THIS STORM CC PLAN

FEMA NOTE

ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE MAP (DATED 6/17/2008) THE SUBJECT PARCEL SHOWN HEREIN LIES WITH ZONE X, COMMUNITY PANEL NO 39049C0341K. THIS PROJECT WILL NOT REQUIRE ANY WORK IN THE FLOOD PLAIN, FLOOD WAY, OR STREAM CORRIDOR PROTECTION ZONE.

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7106
Ph. 614.487.1650 - WEB www.korda.com

STATE OF OHIO ERIC J. WALSH E-80715 REGISTERED PROFESSIONAL ENGINEER

4/2/2025
REGISTERED ENGINEER NO. DATE

APPROVED: APPROVALS SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. **APPROVAL FOR STORM WATER DRAINAGE ONLY.**

CITY ENGINEER / ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION — DATE

ADMINISTRATOR, DIVISION OF POWER — DATE

ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE — DATE

ADMINISTRATOR, DIVISION OF WATER — DATE

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CKD / CID / CON.DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 150' VERT 1" = N/A
SHEET: 1 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT | OWNERSHIP | PRESERVATION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
TITLE SHEET

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C201
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER	2022-0431

File: N:\Projects\2022\2022-0431 - OH-Columbus-Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plansheets\C201 TITLE SHEET.dwg Saved Date: 30-May-2025 9:56 AM Plot Date: 11:55 AM Saved By: EAM/mh
PRINT DATE: 5/30/2025 9:59 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing - REFUGEE/CMHA Aspire Housing_REFUGEE_R23.rvt
REVIT VERSION: 2023

GENERAL NOTES

SW 1. THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2025 EDITION, REVISION (01/01/2025), INCLUDING ALL REVISIONS AND SUPPLEMENTS THERETO, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THIS PLAN UNLESS NOTED OTHERWISE.

SW 2. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DIVISIONS AT LEAST 24-HOURS IN ADVANCE OF ANTICIPATED START OF CONSTRUCTION:
- DIVISION OF SEWERAGE AND DRAINAGE (614) 645-7102
- DIVISION OF DESIGN AND CONSTRUCTION (CONSTRUCTION SECTION) (614) 645-0433

SW 3. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES.

SW 4. CONSTRUCTION OF THIS PROJECT MAY NOT BEGIN UNTIL THE EASEMENTS INDICATED HAVE BEEN RECORDED BY THE CITY.

SW 5. THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND WHERE REQUIRED A REPAVING GUARANTEE.

SW 6. ANY MODIFICATION TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR OF THE DIVISION OF SEWERAGE AND DRAINAGE.

SW 7. ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT VERSION.

SW 8. ALL CONCRETE PIPE, STORM AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, STORM AND SANITARY STRUCTURES HAVE BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS THEIR SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

SW 9. EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON SHEET NO. 18(C217)-25(C224) OF THIS PLAN. LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SITE INVESTIGATION BY THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

SW 10. IT IS THE RESPONSIBILITY OF THE SITE OWNER TO NOTIFY THE CITY OF COLUMBUS TWO WORKING DAYS PRIOR TO COMMENCEMENT OF INITIAL SITE LAND DISTURBANCE ON ANY SITE OF ONE OR MORE ACRES. THIS INCLUDES SITE CLEARING, GRUBBING AND ANY EARTH MOVING. PRIMARY EROSION AND SEDIMENT CONTROL PRACTICES ARE MANDATED BY REGULATION TO BE IN PLACE FROM THE BEGINNING OF THE CONSTRUCTION ACTIVITY. PLEASE CONTACT THE STORMWATER AND REGULATORY MANAGEMENT SECTION AT (614) 645-6311. DETAILS OF THIS REQUIREMENT MAY BE FOUND IN THE REGULATION FOR CONTROL OF STORMWATER POLLUTION FROM LAND DISTURBANCE. FAILURE TO COMPLY MAY RESULT IN ENFORCEMENT ACTION.

SW 11. THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S LEVEL AND ROD ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED. THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE FOR USE AND ASSIST THE CITY INSPECTOR IN PERFORMING GRADE CHECKS WHEN REQUESTED BY THE INSPECTOR. THE INSPECTOR WILL MAKE ALL REASONABLE ATTEMPTS TO CONFINE REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIME CONVENIENT TO THE CONTRACTOR.THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:
1. PROPER PLACEMENT OF EACH STRUCTURE.
2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE.
3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN.
4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION.

GRADE CHECKS PERFORMED BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR OF THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

SW 12. THE AMOUNT OF FILL WITHIN DESIGNATED FEMA FLOODPLAIN AREAS ONSITE IS 0 C.Y. THE AMOUNT OF FILL COMPENSATED WITHIN DESIGNATED FEMA FLOODPLAIN AREAS ONSITE IS 0 C.Y.

SW 13. THE PONDING OR DETENTION AREAS ON THE PLANS ARE A PART OF THE STORM SEWER FACILITIES. THE DEVELOPER/OWNER WILL ASSUME THE RESPONSIBILITY TO MAINTAIN THE PONDING OR DETENTION AREAS SO AS NOT TO REDUCE THE WATER STORAGE AREAS. IF THE OWNER DOES NOT MAINTAIN THE PONDING AND DETENTION AREAS, THE PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.

AS A CONDITION OF FINAL ACCEPTANCE, THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT SURVEYS TO VERIFY THE FINAL GRADES AND ELEVATIONS OF STORMWATER CONTROL FACILITIES. AT THE COMPLETION OF CONSTRUCTION, THE OWNER/DEVELOPER SHALL FIELD SURVEY THE STORMWATER DETENTION FACILITY TO VERIFY THAT THE FACILITIES ARE CONSTRUCTED ACCORDING TO APPROVED PLANS. SHOULD A DISCREPANCY BETWEEN THE PLANS AND CONSTRUCTED GRADES EXIST, THE DESIGN STORAGE OF THE DETENTION FACILITY SHALL BE RESTORED BY THE OWNER/DEVELOPER AS DIRECTED BY THE CITY OF COLUMBUS.

SW 14. IMMEDIATELY AFTER PLACEMENT OF ANY CONDUITS, THE CONTRACTOR SHALL CONSTRUCT THE END TREATMENTS REQUIRED BY THE PLANS AT BOTH THE OUTLET AND INLET ENDS. THIS SHALL INCLUDE HEADWALLS, CONCRETE, RIP RAP, ROCK CHANNEL PROTECTION, SODDING, POURING BOTTOMS, MUDDING LIFT HOLES, ETC.

DEWATERING
IN THE EVENT THAT DEWATERING IS NECESSARY, THE CONTRACTOR IS REQUIRED TO PREPARE A DEWATERING PLAN THAT WILL DESCRIBE HOW THE DEWATERING OPERATION WILL BE COMPLETED AND HOW THE PUMP EFFLUENT WILL BE MANAGED. THIS PLAN WILL BE PRESENTED TO THE CITY FOR REVIEW PRIOR TO ANY DEWATERING OPERATIONS.

INSTALLATION OF ANY WELL, WELL POINT PIT OR OTHER WITHDRAWAL DEVICE USED FOR THE PURPOSE OF REMOVING GROUNDWATER FROM ANY AQUIFER SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE OHIO DEPARTMENT OF NATURAL RESOURCES (ODNR).

INSTALLATION OF ANY WELL, WELL POINT PIT OF OTHER DEVICE USED FOR THE PURPOSE OF LOWERING THE GROUNDWATER LEVEL TO FACILITATE CONSTRUCTION OF THIS PROJECT SHALL BE PROPERLY ABANDONED IN THE PROVISIONS OF SECTION 3745-9-10 OF THE OHIO ADMINISTRATIVE CODE OR AS DIRECTED BY THE OHIO DEPARTMENT OF NATURAL RESOURCES DIRECTOR OR THEIR REPRESENTATIVES. THE CONTRACTOR IS SOLELY RESPONSIBLE TO THE ODNR FOR REGISTRY, MAINTENANCE AND ABANDONMENT OF ANY WITHDRAWAL DEVICES USED FOR IN THE CONSTRUCTION OF THIS PROJECT.

THE CONTRACTOR SHALL BE REQUIRED TO COMPLETE AND FILE A WELL LOG AND A DRILLING REPORT FORM WITH ODNR, DIVISION OF WATER WITHIN 30 DAYS OF THE COMPLETION OF INSTALLATION OF ANY WELL, WELL POINT, PIT OR OTHER DEVICE USED FOR THE PURPOSE OF REMOVING GROUNDWATER FROM AN AQUIFER. THIS IN ACCORDANCE WITH SECTION 1521.01 AND 1521.05 OF THE OHIO REVISED CODE. IN ADDITION, ANY SUCH FACILITY THAT HAS A CAPACITY TO WITHDRAWAL WATERS OF THE STATE IN AN AMOUNT GREATER THAN 100,000 GALLONS PER DAY FROM ALL SOURCES SHALL BE REGISTERED BY THE CONTRACTOR WITH THE CHIEF OF THE ODNR, DIVISION OF WATER, WITHIN THREE MONTHS OF THE COMPLETION OF THE FACILITY IN ACCORDANCE WITH SECTION 1521.16 OF THE OHIO REVISED CODE. COPIES OF THE NECESSARY PAPERWORK CAN BE OBTAINED AT ODNR, DIVISION OF WATER, FOUNTAIN SQUARE, COLUMBUS, OHIO 43224-1387, PHONE (614) 265-6717.

SHOULD WATER BE ENCOUNTERED, THE CONTRACTOR SHALL FURNISH AND OPERATE SUITABLE PUMPING EQUIPMENT OF SUCH CAPACITY TO ADEQUATELY DEWATER THE TRENCH PER CMSC ITEM 901.06. THE TRENCH SHALL BE SUFFICIENTLY DEWATERED SO THAT PLACEMENT OF BEDDING AND LAYING AND JOINING OF THE PIPE OR STRUCTURES IS MADE ON FIRM, DRY GROUND. THE CONTRACTOR SHALL CONVEY ALL TRENCH WATER TO A NATURAL DRAINAGE CHANNEL OR STORM SEWER WITHOUT CAUSING DAMAGE TO THE PROPERTY BY UTILIZING PROPER EROSION AND SEDIMENT CONTROLS. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS; THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES. THE COST OF DEWATERING WORK SHALL BE INCLUDED IN THE BID PRICE FOR VARIOUS ITEMS WITHIN THE CONTRACT.

IF DURING CONSTRUCTION OF THE SEWER, THE WATER WELLS BELONGING TO NEARBY RESIDENCES ARE DEWATERED, THE CONTRACTOR SHALL PROVIDE POTABLE WATER TO THE RESIDENTS AND IF THE WELL IS UNABLE TO BE RECOMMISSIONED AFTER CONSTRUCTION, A TAP TO A WATERLINE SHALL BE PROVIDED IF AVAILABLE OR ANOTHER WELL DUG, AT NO EXTRA COST TO THE RESIDENTS.

STORM CONTROL FACILITY AS-BUILT SURVEY
CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF THE STORMWATER CONTROL FACILITY PREPARED UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL SURVEYOR. SURVEY SHALL INCLUDE FIELD VERIFICATION OF ELEVATIONS, DIMENSIONS, AND LOCATION OF STORMWATER CONTROL FACILITY, ASSOCIATED STRUCTURES, INVERT ELEVATIONS FOR ALL PIPES AND CONTROL FEATURES, PIPE SIZES, AND MATERIAL. SURVEY SHOULD MEET COLUMBUS STORMWATER DRAINAGE MANUAL REQUIREMENTS.

CONTRACTOR SHALL CONFIRM ELEVATIONS MATCH PLANS IN FIELD BEFORE THE COMPLETION OF CONSTRUCTION ON EACH ITEM OF THE STORMWATER CONTROL FACILITY AND ASSOCIATED STRUCTURES AND MATERIAL. IF ELEVATION, DIMENSIONS, OR LOCATION DIFFERS FROM THE PLANS, THE ENGINEER SHALL BE NOTIFIED BEFORE COMPLETION OF CONSTRUCTION OF THE STORMWATER CONTROL FACILITY. IN BURIED DETENTION SYSTEMS, BOTTOM OF SYSTEM, BOTTOM OF STONE, AND TOP OF STONE SHOULD BE VERIFIED AND APPROVED BY THE ENGINEER PRIOR TO BACKFILLING SYSTEM. DISCREPANCIES BETWEEN THE PLANS FINISHED CONSTRUCTION WILL BE RESTORED BY THE CONTRACTOR AT THEIR EXPENSE.

DIVISION OF POWER NOTE (revision 1)
THE DIVISION OF POWER (DOP) MAY HAVE OVERHEAD AND UNDERGROUND PRIMARY, SECONDARY, AND STREET LIGHTING AT THIS WORK LOCATION. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS AT 811 OR 1-800-362-2764 FORTY-EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. ANY PROJECT, BOTH PUBLIC OR PRIVATE, WITH IMPACTS REQUIRING RELOCATION, SUPPORT, PROTECTION, OR ANY OTHER ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IN THE CONSTRUCTION AREA IS TO BE PERFORMED BY THE CONTRACTOR UNDER THE DIRECTION OF DOP PERSONNEL AND AT THE EXPENSE OF THE PROJECT. UNLESS PREVIOUSLY AUTHORIZED, DOP SHALL MAKE ALL FINAL CONNECTIONS TO DOP'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. NO PERSON SHALL WORK ON DOP FACILITIES UNLESS THEY HAVE COMPLETED CONTRACTOR SAFETY ORIENTATION WITH DOP. ANY PERSON WORKING ON DOP FACILITIES ON LIVE CONDUCTORS OR CONDUCTORS THAT MAY BECOME LIVE SHALL COMPLY WITH DOP'S CONDUCTOR SAFETY POLICY (TDMIS-1603), HOLD CARD SYSTEM (TDMIS-1604) AND STREET LIGHT LOCK OUT TAG OUT PROCEDURE (MIS-1). PRIOR TO BEGINNING WORK ON DOP FACILITIES, EACH PERSON SHALL CONTACT DOP'S DISPATCH OFFICE AT 614-645-7627 AND PROVIDE THEIR NAME, PHONE NUMBER, LOCATION, DESCRIPTION OF WORK AND CIRCUIT NUMBER. AT COMPLETION OF WORK, EACH PERSON SHALL NOTIFY DOP'S DISPATCH OFFICE. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING DOP'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMSC). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL. THE CONTRACTOR SHALL CONFORM TO DOP'S EXISTING STREET LIGHT LOCKOUT/TAGOUT PROCEDURE, MIS-1 , COPIES OF WHICH ARE AVAILABLE FROM DOP AND ON THE CITY WEBSITE. IF ANY ELECTRIC FACILITY BELONGING TO DOP IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, ITS AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DOP DISPATCH OFFICE SHOULD BE CONTACTED IMMEDIATELY AT (614) 645-7627. DOP SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER, CITY OF COLUMBUS, OHIO.

COLUMBUS RECREATION AND PARKS DEPARTMENT STANDARD PLAN NOTE
PRIOR TO SUBMISSION OF FINAL SITE COMPLIANCE PLAN, ANY ENTITY REQUESTING NON-PARK USE/DEVELOPMENT MUST REQUEST A NON-PARK USE OF PARKLAND (NPUP) APPLICATION FROM COLUMBUS RECREATION & PARKS DEPARTMENT (CRPD) AT CRPD_NPUP@COLUMBUS.GOV . IF THE NPUP IS APPROVED, CRPD WILL ISSUE A PERMIT TO ENTER CRPD PROPERTY. THE NPUP APPLICATION MUST BE REVIEWED AND APPROVED WITH PERMIT ISSUED BEFORE ANY ACTIVITY CAN BE PERFORMED ON PARKLAND. THE CONTRACTOR SHALL CONTACT THE NPUP POINT OF CONTACT THIRTY (30) CALENDAR DAYS PRIOR TO ANY WORK ON OR NEAR CRPD PROPERTY. THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE AND COORDINATE ACCESS WITH CRPD INSPECTOR PRIOR TO ANY WORK ON OR NEAR CRPD PROPERTY. SCHEDULED EVENTS BY CRPD SHALL TAKE PRECEDENCE OVER THE CONTRACTOR'S WORK SCHEDULE, AND THE CONTRACTOR SHALL ADJUST WORK SCHEDULE AS NECESSARY TO ACCOMMODATE CRPD EVENTS. THE CONTRACTOR SHALL NOT ENTER INTO A CRPD PROPERTY NOR STAGE/STORE ANY MATERIALS/EQUIPMENT OUTSIDE THEIR WORK LIMITS ON CRPD PROPERTY WITHOUT A PERMIT ISSUED BY CRPD. THE PERMIT MUST BE POSTED ONSITE AT ALL TIMES. ANY AND ALL CRPD PARK AREAS DISTURBED BY THE CONTRACTOR DURING THE COURSE OF THEIR WORK ACTIVITIES SHALL BE RESTORED TO CONDITIONS THAT MEET OR EXCEED EXISTING CONDITIONS WITHIN THE TIME FRAMES NOTED IN THE APPROVED SCHEDULE AND SHALL BE TO THE SATISFACTION OF CRPD THAT MEET STANDARDS AND SPECIFICATIONS. UNLESS SPECIFIC PERMISSIONS ARE GRANTED BY CRPD, ACCESS TO, FROM, ON, OVER, UNDER, THROUGH, OR ACROSS CRPD PROPERTY IS NOT GRANTED OR IMPLIED. FAILURE TO HAVE A PERMIT IN PLACE THAT IS CONSISTENT WITH CRPD NPUP POLICY WILL RESULT IN DELAY OF FINAL SITE COMPLIANCE APPROVAL SIGNATURE BY RECREATION & PARKS/CITY FORESTER.

PUBLIC TREE IMPACT NOTE
ANY WORK ON OR WITHIN THE CRITICAL ROOT ZONE OF A PUBLIC TREE IS CONSIDERED AN IMPACT TO THE PUBLIC TREE. A PUBLIC TREE PLAN AND PERMIT FROM COLUMBUS RECREATION & PARKS FORESTRY IS REQUIRED FOR ANY PLAN WITH PUBLIC TREES IN THE WORK LIMITS. THE PUBLIC TREE PLAN SHALL DENOTE ALL PUBLIC TREES IN THE PROJECT'S WORK LIMITS. TREE INFORMATION SHALL CONFORM TO THE COLUMBUS TREE TECHNICAL MANUAL REQUIREMENTS AND BE PROVIDED BY A NATURAL RESOURCE PROFESSIONAL. FAILURE TO CONTACT THE CITY FORESTRY REPRESENTATIVE IN ADVANCE OF CONSTRUCTION WILL RESULT IN THE CONTRACTOR REIMBURSING FORESTRY FOR THE COST OF ANY AND ALL DAMAGE TO PUBLIC TREES.

PUBLIC TREE PROTECTION NOTE
ALL PUBLIC TREES AND THE GROUND IN THE CRITICAL ROOT ZONE, WHETHER SHOWN OR NOT SHOWN ON THE PLANS, ARE TO BE PROTECTED UNLESS A PERMIT TO REMOVE IS GIVEN BY COLUMBUS RECREATION & PARKS (CRPD) FORESTRY. THE CONTRACTOR SHALL PROTECT TREES NEAR OR ADJACENT TO THE WORK AREA TO AVOID DAMAGE TO ALL TREES THAT ARE TO REMAIN. HEAVY EQUIPMENT WILL NOT BE ALLOWED TO COMPACT THE SOIL OVER THE CRITICAL ROOT ZONE OF EXISTING PUBLIC TREES. RESTRICTED EQUIPMENT ACCESS ROUTES SHALL BE COORDINATED WITH CRPD FORESTRY AT FORESTRY@COLUMBUS.GOV BEFORE WORK BEGINS. TEMPORARY PAVING MATERIALS, SUCH AS PLYWOOD, LUMBER OR RUBBER MATTING, SPREAD OVER THE ROOT ZONE OF PUBLIC TREES MAY BE REQUIRED TO PREVENT COMPACTION. CONSTRUCTION MATERIALS, EXCAVATION DEBRIS, FUEL, EQUIPMENT, OR VEHICLES ARE NOT TO BE STOCKPILED, STORED, DUMPED, OR PARKED WITHIN THE CRITICAL ROOT ZONE OF PUBLIC TREES. ALL TREES MUST BE PROTECTED AGAINST INJURY OR DAMAGE TO BRANCHES, TRUNKS, OR ROOTS FROM CONSTRUCTION AND EXCAVATION, AS DESCRIBED IN THE CRPD TREE TECHNICAL MANUAL. IF THERE IS A QUESTION REGARDING TREE PROTECTION NEEDS, THE CONTRACTOR MUST CONTACT THE CITY FORESTRY SECTION AT FORESTRY@COLUMBUS.GOV.

FORESTRY PERMIT NOTE
ANY WORK ON OR WITHIN THE CRITICAL ROOT ZONE OF A PUBLIC TREE REQUIRES A FORESTRY PERMIT. ALL APPLICABLE FEES MUST BE PAID PRIOR TO PERMIT ISSUANCE. REFER TO THE CRPD TREE TECHNICAL MANUAL FOR TREE REMOVAL, PRUNING, PROTECTION, AND MITIGATION STANDARDS.

OAK WILT NOTE
TO PREVENT THE SPREAD OF OAK WILT, A FUNGAL DISEASE, OAK TREES SHALL ONLY BE PRUNED FROM NOVEMBER 1 TO MARCH 1.

SPECIAL NOTES

1. **NOTIFICATION** - THE CONTRACTOR SHALL NOTIFY, IN WRITING, ALL ADJACENT PROPERTY LANDOWNERS A MINIMUM OF ONE WEEK IN ADVANCE OF WORK NEAR THEIR PROPERTY. THE CONTRACTOR SHALL CONTACT THE DIVISION OF SEWERAGE AND DRAINAGE FOR A SUGGESTED FORMAT FOR THE NOTICE.

2. **PERMITS** - THE CONTRACTOR IS TO OBTAIN NECESSARY PERMITS. AN ORIGINAL PERMIT, WITH RED SIGNATURES, SHALL BE KEPT ONSITE AT ALL TIMES.

   WHEN OCCUPYING OR EXCAVATING WITHIN PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE- PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY. PHONE: (614) 645-7497; FAX: (614) 645-1876; EMAIL: COLSPERMITS@COLUMBUS.GOV

3. **FIRE HYDRANT PERMIT** - THE CONTRACTOR SHALL OBTAIN THE PROPER HYDRANT PERMIT(S), AND PAY ANY APPLICABLE FEES, FOR ANY APPROVED HYDRANT USAGE DEEMED NECESSARY FOR WORK UNDER THIS IMPROVEMENT. PERMITS MAY BE OBTAINED THROUGH THE DIVISION OF WATER PERMIT OFFICE (614-645-7330). THE CONTRACTOR SHALL ADHERE TO ALL RULES & REGULATIONS GOVERNING SAID PERMIT AND MUST HAVE THE ORIGINAL PERMIT ON SITE ANYTIME IN WHICH THE HYDRANT IS IN USE. PERMITS MAY BE OBTAINED BY ACCESSING HTTP://PORTAL.COLUMBUS.GOV/PERMITS/. COST TO BE INCLUDED IN THE VARIOUS BID ITEMS.

   FIRE HYDRANT PERMITTED MAY NOT BE AVAILABLE WITHIN PROJECT LIMITS. CONTRACTOR SHALL CONTACT THE DIVISION OF WATER TO LOCATE AVAILABLE HYDRANTS PRIOR TO BIDDING. ALL COSTS ASSOCIATED WITH TRUCKING WATER TO THE SITE SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

4. **MANHOLES TO BE REBUILT** - ALL SEWER MANHOLES BEING REBUILT TO ACCOMMODATE GRADE CHANGES WILL NEED TO BE BUILT BY A LICENSED SEWER CONTRACTOR, FOR THE CITY OF COLUMBUS, UNDER SEPARATE SEWER PERMIT. CONTACT THE SEWER PERMIT COUNTER AT (614) 645-7490 FOR ADDITIONAL INFORMATION.

5. **TREE AND BRUSH REMOVAL** - THE CONTRACTOR SHALL INCLUDE FOR PAYMENT UNDER VARIOUS STORM SEWER ITEMS, COST FOR REMOVAL AND DISPOSAL OF ALL TREES, BRUSH, AND STUMPS WITHIN THE SCOPE OF PROPOSED STORM SEWERS.

6. **BENCHMARKS** - THE CONTRACTOR SHALL CAREFULLY PRESERVE BENCH MARKS, PROPERTY CORNERS, REFERENCE POINTS, STAKES, AND OTHER SURVEY REFERENCE MONUMENTS OR MARKERS. IN CASES OF WILLFUL OR CARELESS DESTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORATIONS. RESETTING OF MARKERS SHALL BE PERFORMED BY AN OHIO PROFESSIONAL SURVEYOR AS APPROVED BY THE CITY ENGINEER. THE CONTRACTOR SHALL CONTACT THE FRANKLIN COUNTY SURVEY DEPARTMENT (614) 642-3026, PRIOR TO CONSTRUCTION TO COORDINATE PROPER PROCEDURES FOR THE RESETTING, RELOCATION OR REPLACEMENT OF ANY FRANKLIN COUNTY CERTIFIED BENCHMARK OR SURVEY MONUMENT.

7. **ELEVATION DATUM** - ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON _____ DATUM.

8. **STANDBY INSPECTION** - STAND BY INSPECTION BY THE DIVISION OF DESIGN AND CONSTRUCTION IS MANDATORY DURING CONSTRUCTION. THE DEVELOPER/OWNER SHALL, PRIOR TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COSTS FOR INSPECTION AND, WHERE REQUIRED, A RE-PAVING GUARANTEE.

   THE CONTRACTOR SHALL REQUEST A PARTIALLY COMPLETED CONSTRUCTION INSPECTION DEPOSIT FORM (CID) FROM THE DESIGN ENGINEER; COMPLETE THE FORM AND SUBMIT TO THE CITY OF COLUMBUS AT 111 N. FRONT STREET, 1ST FLOOR, ALONG WITH THE INSPECTION FEE, PRIOR TO BEGINNING WORK ON THE PROJECT.

9. **SAFETY** - THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. IT IS ALSO THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INITIATE, MAINTAIN, AND SUPERVISE SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.

   THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FOLLOWING THE OSHA REQUIREMENTS FOR "CONFINED SPACE ENTRY (CSE)", TITLE #29 OF THE CODE OF FEDERAL REGULATIONS, PART 1910.146, WHILE PERFORMING WORK INSIDE ANY MANHOLE OR OTHER CONFINED SPACE REQUIRING A PERMIT.

10. **NON-RUBBER TIRED VEHICLES** - NON-RUBBER TIRED VEHICLES SHALL NOT BE MOVED ON PUBLIC STREETS, EXISTING PRIVATE ROADWAYS, OR PARKING LOTS. EXCEPTIONS MAY BE GRANTED BY THE CITY WHERE SHORT DISTANCES AND SPECIAL CIRCUMSTANCES ARE INVOLVED. GRANTING OF EXCEPTIONS MUST BE IN WRITING AND ANY RESULTING DAMAGE MUST BE REPAIRED TO THE SATISFACTION OF THE CITY, AND AT THE CONTRACTOR'S EXPENSE.

11. **RIGHT-OF-WAY** - IN ADDITION TO DIRECT REQUIREMENTS OF THE CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL OBSERVE AND CONFORM TO THE SPECIFIC REQUIREMENTS OF ALL RIGHTS-OF-WAY INCLUDING EASEMENTS, COURT ENTRIES, RIGHTS-OF-ENTRY, OR ACTION FILED IN COURT IN ACCORDANCE WITH THE CODE OF THE APPLICABLE GOVERNING AGENCY.

12. **OPEN EXCAVATIONS** - WITHIN ROADWAYS AND RIGHT-OF-WAY EXCAVATIONS AND TRENCHES OVER 24 INCHES DEEP SHALL BE SECURELY PLATED, OR BACKFILLED WITH CMSC ITEM 304 DURING NON-WORKING HOURS. ALL EXCAVATIONS SHALL BE MAINTAINED AS SAFE AS POSSIBLE BY THE CONTRACTOR AT ALL TIMES AND BACKFILLED AT THE END OF EACH WORK DAY. OUTSIDE RIGHT-OF-WAY AND NOT WITHIN ROADWAYS, OPEN EXCAVATIONS OVER 24 INCHES AFTER WORK HOURS REQUIRE SECURE TRAFFIC PLATES AND/OR LIGHTED BARRICADES AND CONSTRUCTION FENCE.

13. **STORAGE OF EQUIPMENT AND MATERIALS** - EQUIPMENT, MATERIALS, INCLUDING PIPE, SHALL NOT AT ANY TIME (WORKING OR NON-WORING HOURS) BE STORED WITHIN THE RIGHT-OF-WAY OR WITHIN ONE HUNDRED (100) FEET OF ANY INTERSECTING STREET OR DRIVEWAY, WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY OF COLUMBUS. COMPLIANCE WITH THIS REQUIREMENT ALONG WITH ADDITIONAL PROVISIONS OF THE CONTRACT SPECIFICATIONS SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR OF HIS LEGAL RESPONSIBILITIES OR LIABILITIES FOR THE SAFETY OF THE PUBLIC.

14. **SIGNS, MAILBOXES, FENCES, ETC.** - THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SIGNS, MAILBOXES, FENCES, GAURDRAIL, SHRUBS, DRAINAGE STRUCTURES, VALVE BOXES OR OTHER PHYSICAL FEATURES REMOVED, DISTURBED OR DAMAGED DURING CONSTRUCTION WHETHER SHOWN ON THE PLANS OR NOT TO THEIR FORMER CONDITION AND LOCATION.

15. **MAIL SERVICE** - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING MAIL SERVICE IN THE CONSTRUCTION AREA. PRIOR TO DISTURBING ANY MAIL BOXES, THE CONTRACTOR SHALL CONTACT THE POSTAL AUTHORITY AND SHALL TEMPORARILY RELOCATE MAIL BOXES IN ACCORDANCE WITH POSTAL REQUIREMENTS. THE CONTRACTOR SHALL RESTORE MAIL BOXES TO THEIR FORMER CONDITION AND LOCATION.

16. **TRASH COLLECTION** - THE CONTRACTOR SHALL CONTACT THE CITY OF COLUMBUS, DIVISION OF REFUSE (614) 645-4729 OR PRIVATE REFUSE SERVICE FOR CURRENT COLLECTION DATE EACH WEEK PRIOR TO STARTING WORK AND BE RESPONSIBLE FOR MAINTAINING A 20-FOOT WIDE CLEAR AREA FOR TRASH PLACEMENT, COLLECTION AND REPLACEMENT IN THE CONSTRUCTION AREA ON THE DESIGNATED TRASH PICK-UP DAY.

17. **CONSTRUCTION DEBRIS** - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE CLEANUP OF ANY DEBRIS, MUD, OR DIRT TRACKED OR SPILLED ON CITY AND/OR PUBLIC STREETS OR PRIVATE DRIVES WHETHER INSIDE OR OUTSIDE THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF ANY SERVICES CONTRACTED AND/OR COMPLETED BY THE CITY OF COLUMBUS IN THE CLEANUP OF ANY TRACKING OR SPILLAGE ANYTIME DURING PROJECT CONSTRUCTION.

18. **CONSTRUCTION LAYOUT** - ALL CONSTRUCTION LAYOUT SERVICES FOR THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

19. **SITE VISIT** - THE CONTRACTOR SHALL PERFORM FIELD RECONNAISSANCE TO BECOME ACQUAINTED WITH THE EXISTING SITE CONDITIONS AND THE POTENTIAL EFFECTS UPON THE WORK SCOPE. ANY PERFORMANCE OF ADDITIONAL SITE SUBSURFACE INVESTIGATIONS (TEST HOLES) SHALL BE COORDINATED IN ADVANCE WITH THE OWNER. EXCAVATED MATERIAL SHALL BE REPLACED IN A CONTROLLED MANNER TO MINIMIZE IMPACT ON FIELD EARTHWORK OPERATIONS.

20. **UTILITIES** - THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY OWNER OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC. THE UTILITY LOCATIONS INDICATED ARE NOT NECESSARILY COMPLETE OR CORRECT. THE CITY OF COLUMBUS AND/OR DESIGN ENGINEER ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OF THE LOCATION OR DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE INVESTIGATION, LOCATION, SUPPORT, PROTECTION, AND RESTORATION OF ALL EXISTING UTILITIES AND APPURTENANCES WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR IS ALSO RESPONSIBLE FOR COORDINATION OF ANY NECESSARY UTILITY RELOCATION WITH THE UTILITY OWNER. THE UTILITY COMPANY SHALL RELOCATE PRIVATE UTILITIES IN THE RIGHT-OF-WAY AT THEIR EXPENSE. PUBLIC UTILITIES (WATERLINES, SEWERS, ETC.) SHALL BE RELOCATED AS SHOWN ON THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL EXPOSE ALL UTILITIES OR STRUCTURES PRIOR TO CONSTRUCTION TO VERIFY THE VERTICAL AND HORIZONTAL EFFECT ON THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) 48 HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO WORK IN THE VICINITY OF THEIR UNDERGROUND LINES. THE COST OF UTILITY RELATED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CMSC ITEM 901, UNLESS OTHERWISE SPECIFIED.

    MECHANICAL DIGGING EQUIPMENT SHALL NOT BE USED TO EXPOSE ANY UNDERGROUND UTILITIES, ONLY HAND TOOLS MAY BE USED TO UNCOVER THE UTILITY AND THE UTILITY COMPANY SHALL BE NOTIFIED AND HAVE A REPRESENTATIVE PRESENT WHEN THE UTILITY IS EXPOSED.

    THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE RELOCATION AND/OR PROTECTION OF ANY UTILITIES AS REQUIRED BY THE PLAN WITH THE OWNER OF THE AFFECTED UTILITY. PRIVATE UTILITY MANHOLES WITHIN THE LIMITS OF THE WORK SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.

    WHERE POTENTIAL GRADE CONFLICTS MIGHT OCCUR WITH EXISTING UTILITIES AND AT LOCATIONS NOTED THUS **EXPOSE**, THE CONTRACTOR WILL BE REQUIRED TO UNCOVER SUCH UTILITIES SUFFICIENTLY IN ADVANCE OF LAYING PIPE OR DUCT AND PROVIDE THE ENGINEER THE LOCATION AND ELEVATION OF SAID UTILITY SO THE ENGINEER CAN DETERMINE IF ANY ADJUSTMENTS ARE NECESSARY.

    IN ALL CONFLICTS IN GRADE BETWEEN WATER MAINS AND GRAVITY SEWERS, THE WATER MAIN RELOCATION SHALL BE DISCUSSED AND COORDINATED WITH THE CITY. ALL EXISTING WATER MAINS SHALL BE LOCATED AT LEAST 10' HORIZONTALLY AND AT LEAST 18" VERTICALLY FROM STORM SEWERS, UNLESS OTHERWISE APPROVED BY THE CITY.

    THE CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES IN THE AREAS OF WORK. IF UTILITIES ARE TO REMAIN IN PLACE, PROVIDE ADEQUATE MEANS OF PROTECTING DURING EXCAVATION OPERATIONS.

    SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE ENGINEER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH THE OWNER AND PUBLIC UTILITY COMPANIES IN KEEPING THEIR RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO THE SATISFACTION OF THE UTILITY OWNER.

    DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND OWNED BY THE OWNER EXCEPT WHEN PERMITTED IN WRITING BY THE OWNER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

    THE FOLLOWING UTILITIES MAY BE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND SUBSCRIBE TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS).

UTILITY	ADDRESS	TELEPHONE
AMERICAN ELECTRIC POWER SOLUTION CENTER	850 TECH CENTER DR. GAHANNA, OH 43230	(800) 277-2177
AT&T (FKA SBC)	111 N. FOURTH ST. COLUMBUS, OH 43212 REPAIR SERVICE	(614) 216-2396
VERIZON BUSINESS (MCI/XO)	757 COMMERCE CT. LEWIS CENTER, OH 43035	(614) 593-6685
COLUMBUS FIBERNET	1600 WALCUTT RD. COLUMBUS, OH 43228	(614) 921-8524
WATER FACILITIES	CITY OF COLUMBUS DIVISION OF WATER 910 DUBLIN ROAD COLUMBUS, OH 43215	(614) 645-7788
SEWER FACILITIES	CITY OF COLUMBUS DIVISION OF SEWERAGE AND DRAINAGE 1250 FAIRWOOD AVE. COLUMBUS, OH 43206	(614) 645-7102
ELECTRIC FACILITIES	CITY OF COLUMBUS DIVISION OF POWER 3500 INDIANOLA AVE. COLUMBUS, OH 43214	(614) 645-7627
	CITY OF COLUMBUS DEPARTMENT OF PUBLIC SERVICES TRAFFIC MANAGEMENT 1820 E. SEVENTEENTH AVE. COLUMBUS, OH 43219	(614) 645-7393
	CITY OF COLUMBUS DEPARTMENT OF TECHNOLOGY	(614) 645-7756

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 – Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-8981 WEB www.korda.com

GENERAL NOTES

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY — OWNER / CONTRACTOR / INSPECTOR / AGREEMENT / COMPLETED / RPD / CKD / CID / CON.DR. / INDEX DETAIL / RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A, VERT 1" = N/A — SHEET: 2 / 25
CONTRACT DRAWING NO. CC-20647 — RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR CMHA
COLUMBUS METROPOLITAN HOUSING AUTHORITY — COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
GENERAL NOTES

PROGRESS DRAWING NOT FOR CONSTRUCTION

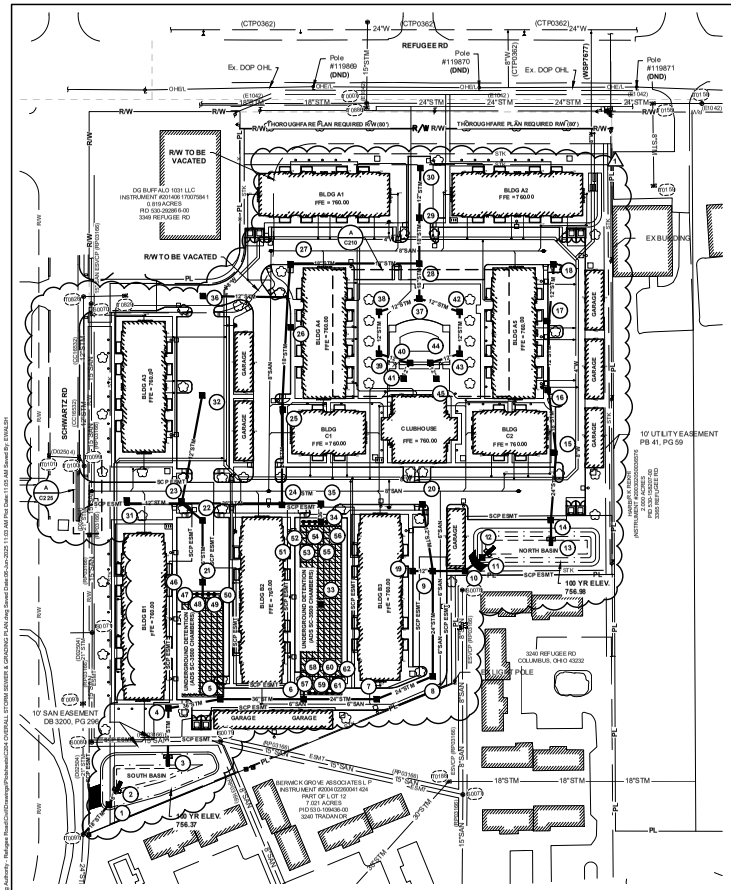
05/01/2025
23446
C202
CD PROGRESS SET

KORDA — KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE SUITE 200 COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

© 2024 MOODY NOLAN INC.

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C202 GENERAL NOTES.dwg Saved Date:19-May-2025 5:32 PM Plot Date:12:32 PM Saved By: CHERRIOTT
REVIT VERSION: 2023
PRINT DATE: 5/19/2025 5:32 PM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



0 60 120 180

GRAPHIC SCALE
SCALE IN FEET

GRADING LEGEND

PROPOSED

- 880 — INDEX CONTOUR
- 799 — INTERMEDIATE CONTOUR
- BUILDING/WALL
- W — WATER LINE
- F — FIRE PROTECTION SERVICE LINE
- G — GAS LINE
- STM — STORM SEWER
- UD — UNDERDRAIN
- SAN — SANITARY SEWER
- STK — SETBACK
- CATCH BASIN
- CURB & GUTTER INLET
- MANHOLE
- AD — AREA DRAIN PER DETAIL G/
- DS — DOWNSPOUT ADAPTER
- W — FIRE HYDRANT
- GATE VALVE & CURB BOX
- XXX — STRUCTURE NUMBER
- GRADE BREAK (CROWN) LINE
- GRADING/SEEDING LIMITS
- 708.83 TC — SPOT ELEVATION / TOP OF CASTING
- 700.00 / 699.50 — TOP OF CURB ELEVATION / GUTTER ELEVATION AT FACE OF CURB
- FLOW DIRECTION ARROW
- HIGH (CROWN) POINT
- EMERGENCY OVERFLOW
- M.E. — MATCH EXISTING ELEVATION

GENERAL NOTES:

1. PROVIDE 10' UNDERDRAINS IN FOUR DIRECTIONS AT CATCH BASINS IN PAVEMENT PER DETAIL F/11(C211).
2. PAVEMENT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED.
3. CONSTRUCTION WORK WILL NOT BE PERMITTED WITHOUT APPROVED PLANS AND INSPECTION.
4. PERFORM WORK IN ACCORDANCE WITH CITY OF COLUMBUS MATERIAL SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS. IN CASE OF A DISCREPANCY BETWEEN CITY OF COLUMBUS REQUIREMENTS AND PROJECT SPECIFICATIONS, CITY OF COLUMBUS STANDARDS SHALL GOVERN.
5. SOIL EROSION AND SEDIMENTATION BMP MEASURES, PER SHEET 18-24/C218-C/24), SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES IN PLACE. BMP MEASURES SHALL BE TO THE SATISFACTION OF THE CITY OF COLUMBUS.
6. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT AND/OR MUD IN THE STREET GUTTERS.
7. REMOVE SEDIMENT FROM DETENTION AREAS, OUTLET STRUCTURES, AND UNDERDRAINS ONCE FINAL SEED HAS BEEN ESTABLISHED.
8. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
9. DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
10. EXTEND UTILITIES TO WITHIN 5'-0" OF FACE OF BUILDING UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
11. MAXIMUM FINISH SLOPES SHALL BE 4:1 UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL THROUGHOUT THE SITE PRIOR TO EXCAVATION. UPON COMPLETION OF FINAL GRADING, PROVIDE 6 INCHES OF TOPSOIL AND SEED AREAS DISTURBED BY CONSTRUCTION, INCLUDING LAYDOWN AREAS AND TRAILER LOCATIONS IF LOCATED OUTSIDE THE GRADING/SEEDING LIMITS.
13. DISPOSE EXCESS EXCAVATED MATERIALS AND UNACCEPTABLE/UNSUITABLE SOILS OFF SITE IN ACCORDANCE WITH LOCAL CODES. NO PERMANENT STOCKPILES WILL REMAIN ON SITE.
14. EXISTING VALVES, MANHOLES, AND OTHER APPURTANCES TO REMAIN LOCATED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO FINISH GRADE.
15. OUTLET CURB UNDERDRAINS TO ADJACENT EXISTING UNDERDRAINS OR STORM SEWER SYSTEM.
16. EXPOSE UTILITIES NOTED THUS: **EXPOSE** PRIOR TO BEGINNING WORK ON THAT UTILITY TO DETERMINE EFFECTS ON THE PROPOSED ALIGNMENT AND PROFILE. REPORT ELEVATION AND LOCATION TO THE ENGINEER IN ORDER THAT ANY CORRECTIONS TO THE ELEVATION AND LOCATION CAN BE MADE.
17. CONCRETE ADJACENT TO BUILDING SHALL BE SLOPED AWAY FROM BUILDING AT 2.0% UNLESS OTHERWISE NOTED.
18. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-9981 WEB www.korda.com

OVERALL STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
		RPD / CKD / CID / CON.DR.	
		INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 60'-0" VERT 1" = N/A

SHEET: 4 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
OVERALL STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C204

CD PROGRESS SET

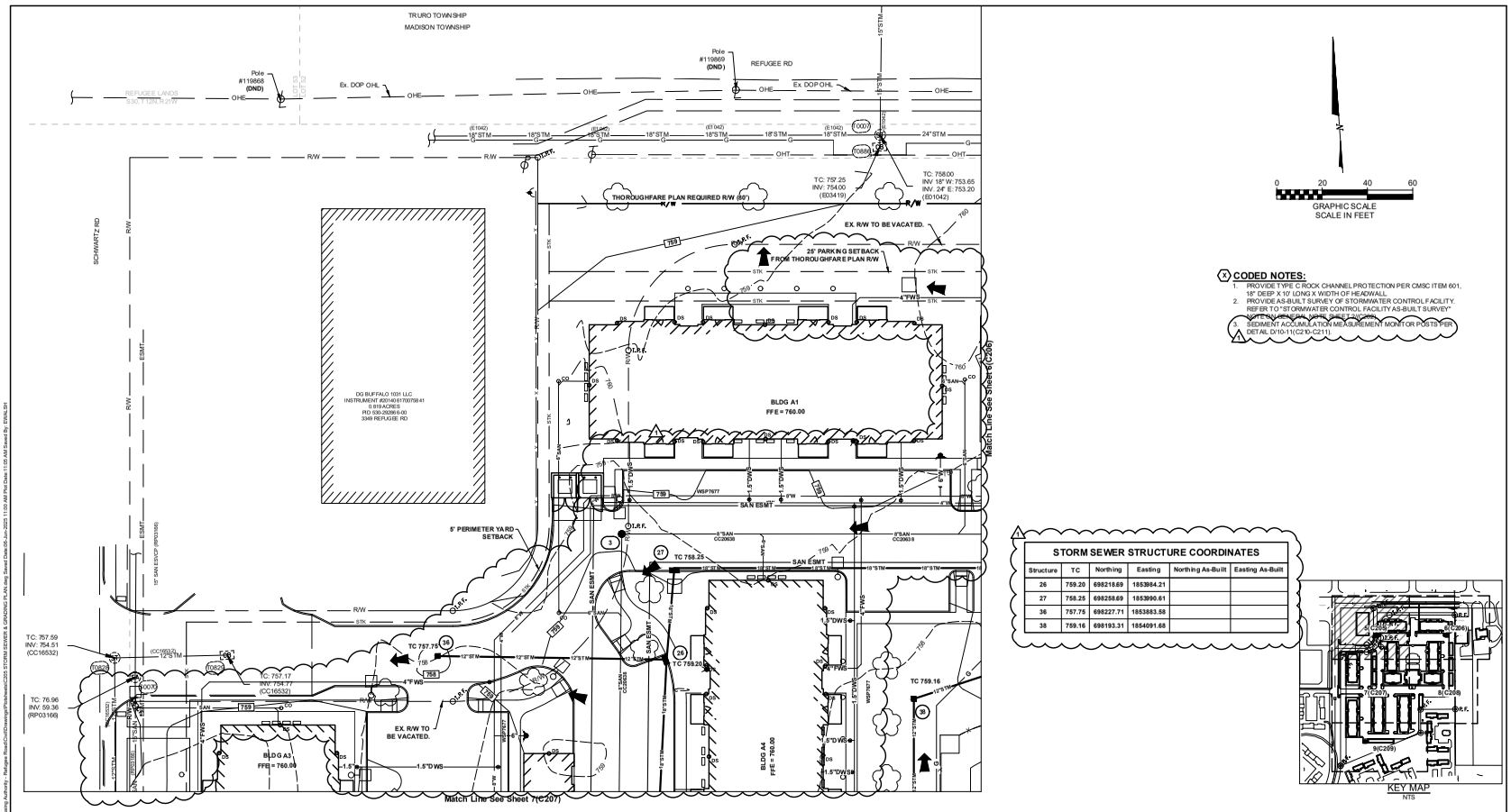
KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PLOT VERSION: 2023
PRINT DATE: 5/30/2025 11:03 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ASDH_R23.rvt

File: N:\Projects\2020\2020-2447 - OH Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C204 OVERALL STORM SEWERS & GRADING PLAN.dwg Saved Date:05-Jun-2025 11:03 AM Plot Date: 11:03 AM Saved By: EWALSH

© 2024 MOODY NOLAN, INC.



CODED NOTES:

1. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTES SHEET FOR DETAILS.
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST IS PER DETAIL D/10-11/C210-C211.

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
26	759.20	698218.69	1853984.21		
27	758.25	698258.69	1853990.61		
36	757.75	698227.71	1853883.58		
38	759.16	698193.31	1854091.68		

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-9981 WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY			
		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
		RPD / CKD	CID / CON.DR.
		INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 5 / 25

CONTRACT DRAWING NO.: CC-20647

RECORD PLAN NO.:

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C205

CD PROGRESS SET

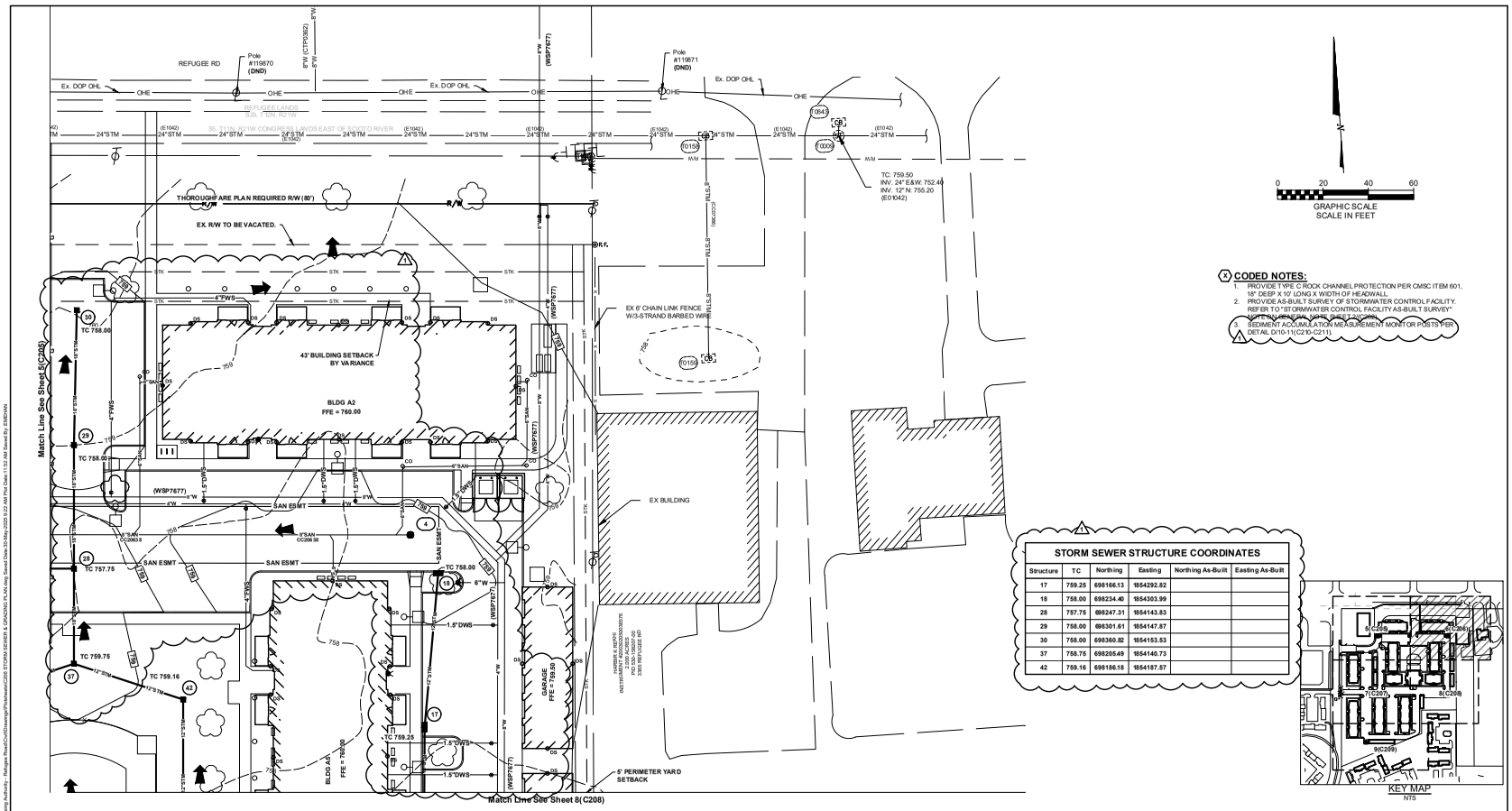
KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:00 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ASDH_R23.rvt

File: N:\Projects\2022\2022-0431 - OH Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plans\sheets\C204 STORM SEWER & GRADING PLAN.dwg Saved Date:05 Jun 2025 11:00 AM Saved By: EWAL SH

© 2024 MOODY NOLAN, INC.



CODED NOTES:

1. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTES SHEET (C001).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL D/10-11(C210-C211).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
17	759.25	698166.13	1854292.82		
18	758.00	698234.40	1854303.99		
28	757.75	698247.31	1854143.83		
29	758.00	698301.61	1854147.87		
30	758.00	698360.82	1854153.53		
37	758.75	698205.49	1854140.73		
42	759.16	698186.18	1854187.57		

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Corridor Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7600
TEL 614-487-1650 - FAX 614-487-0001 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY							
				OWNER			
				CONTRACTOR			
				INSPECTOR			
				AGREEMENT	COMPLETED		
				RPD	CKD	CID	CON.DR.
				INDEX DETAIL		RECORD FILE	

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 6 / 25
CONTRACT DRAWING NO.: CC-20647
RECORD PLAN NO.:

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER & GRADING PLAN

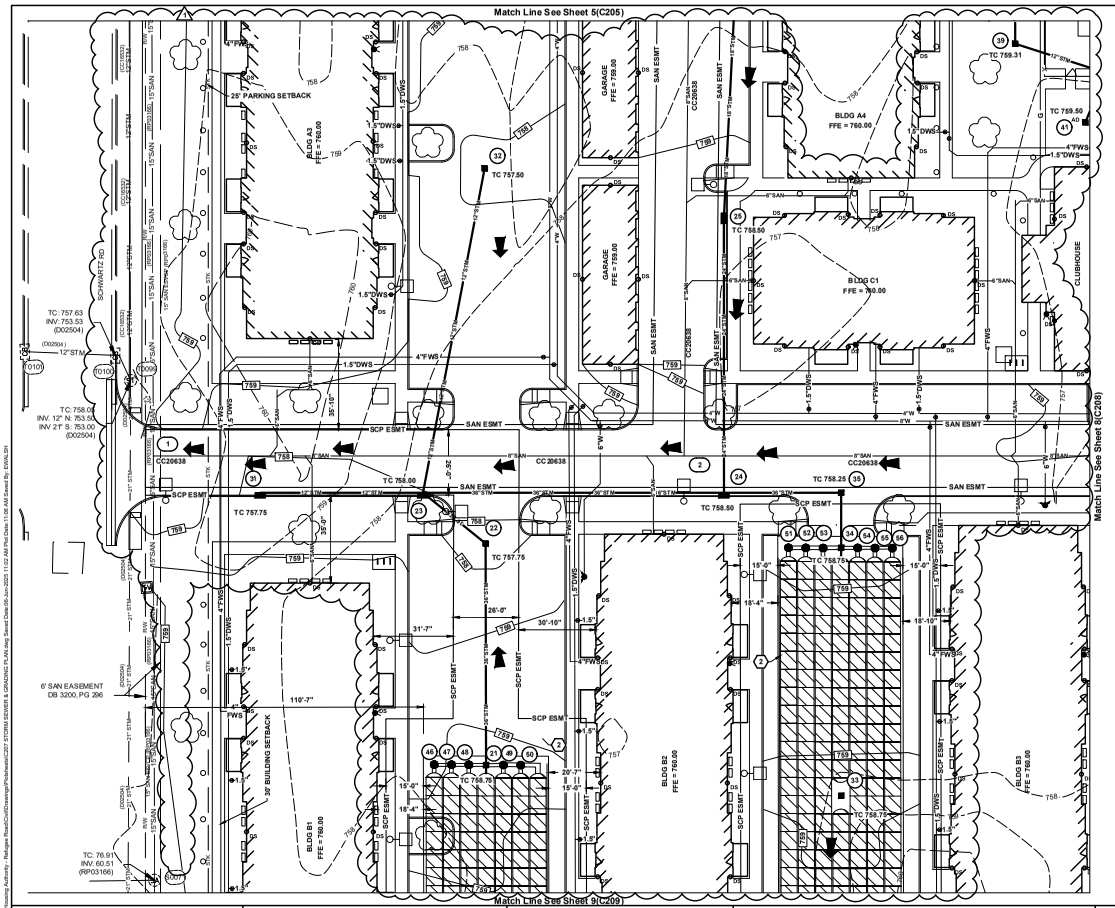
05/01/2025
23446
C206
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BJW
PROJECT NUMBER: 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 2:22 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.

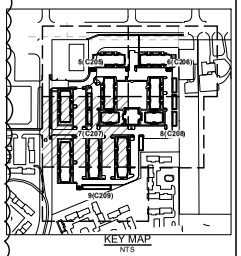


CODED NOTES:

1. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE ON GENERAL NOTES SHEET (C001).
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST IS PER DETAIL D/10-11(C210-C211).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
21	758.75	697872.94	1853856.84		
22	757.75	697960.81	1853863.20		
23	758.00	697982.79	1853839.87		
24	758.50	697973.92	1853959.24		
25	758.50	698082.81	1853967.29		
31	757.75	697987.58	1853775.33		
32	757.50	698109.64	1853873.88		
33	758.75	697850.28	1853996.79		
34	758.75	697948.62	1854004.10		
35	758.25	697970.46	1854005.72		
39	759.00	698143.41	1854087.97		
46	759.10	697874.65	1853836.32		
47	759.00	697874.10	1853843.18		
48	758.85	697873.54	1853850.04		
49	758.85	697872.44	1853863.76		
50	758.95	697871.89	1853870.62		
51	759.20	697950.19	1853983.21		
52	759.10	697949.64	1853990.07		
53	758.90	697949.09	1853996.93		
54	758.85	697948.10	1854010.66		
55	758.90	697947.55	1854017.52		
56	759.10	697947.00	1854024.38		



EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA

Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-9981 WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

DIVISION USE ONLY					
			OWNER		
			CONTRACTOR		
			INSPECTOR		
			AGREEMENT	COMPLETED	
			RPD	CKD	CID / CON.DR.
			INDEX DETAIL	RECORD FILE	

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 7 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

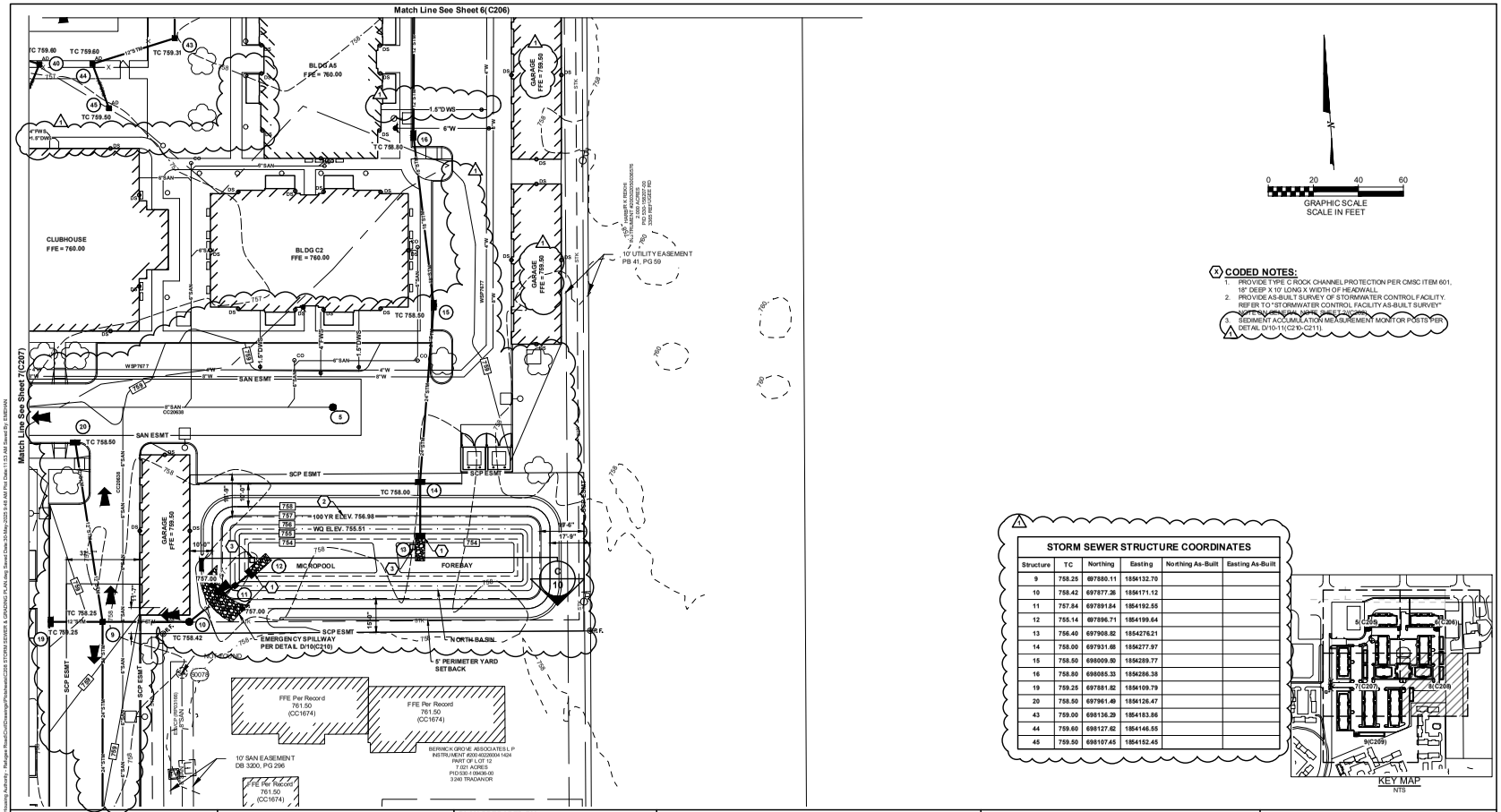
05/01/2025
23446
C207
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/2025 11:02 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 1523/2022-0431_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



CODED NOTES:

1. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO " STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE TO ENGINEER FOR SPECIFICATIONS.
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST IS PER DETAIL D/10-11(C210-C211).

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
9	758.25	697880.11	1854132.70		
10	758.42	697877.26	1854171.12		
11	757.84	697891.84	1854192.55		
12	755.14	697896.71	1854199.64		
13	756.40	697908.82	1854276.21		
14	758.00	697931.68	1854277.97		
15	758.50	698009.50	1854289.77		
16	758.80	698085.33	1854286.38		
19	759.25	697881.82	1854109.79		
20	758.50	697961.49	1854126.47		
43	759.00	698136.20	1854183.86		
44	759.60	698127.62	1854146.55		
45	759.50	698107.45	1854152.45		

KEY MAP
NTS

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0301 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

DIVISION USE ONLY				
		OWNER		
		CONTRACTOR		
		INSPECTOR		
		AGREEMENT	COMPLETED	
		RPD / CKD	CID / CON.DR.	
		INDEX DETAIL	RECORD FILE	

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 8 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

PLOT VERSION: 2021
PLOT DATE: 5/30/2025 9:48 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing 1523/24004_CMHA Aspire Housing_ARCH_R23.rvt

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3335 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

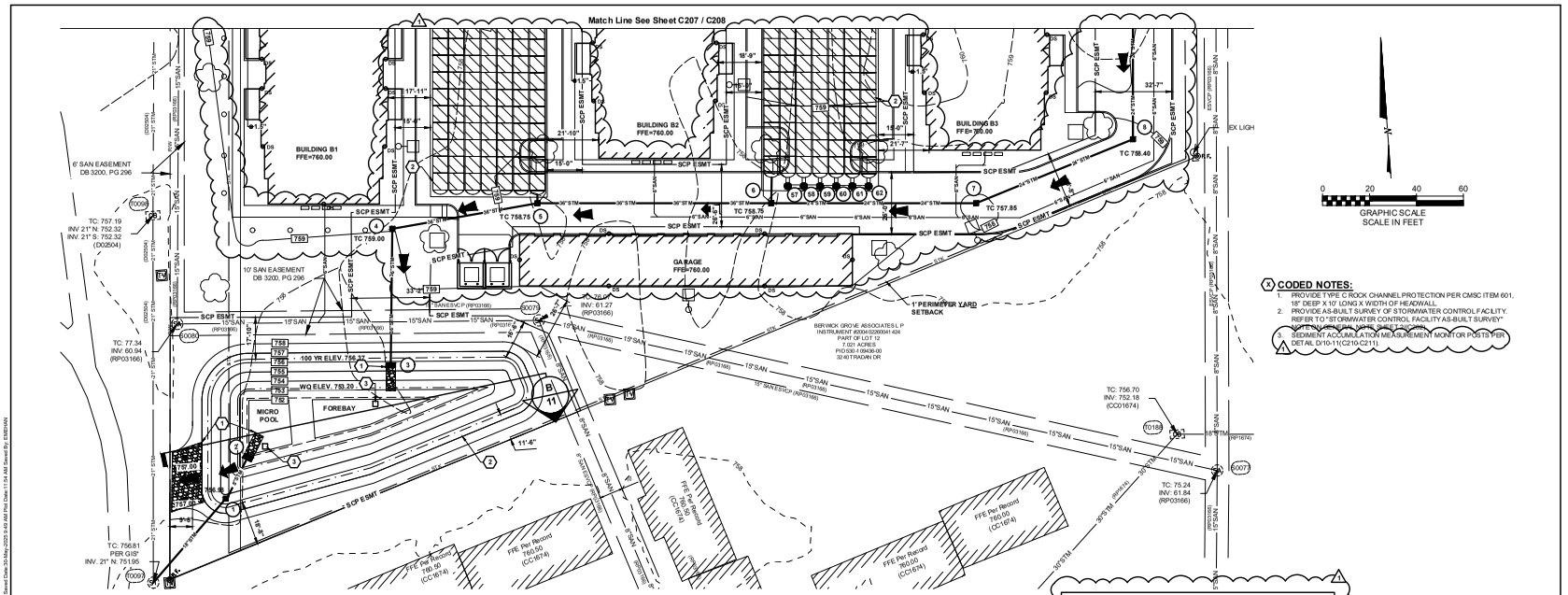
23446

C208

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

© 2024 MOODY NOLAN, INC.

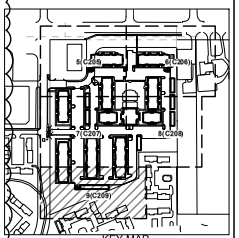


CODED NOTES:

1. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY. REFER TO "STORMWATER CONTROL FACILITY AS-BUILT SURVEY" NOTE TO CIVIL CAD USER SHEET FOR DETAILS.
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST IS PER DETAIL D/10-11/C210-C211.

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
T0096	756.81	697597.48	1853693.34		
1	756.98	697630.85	1853726.76		
2	753.50	697648.45	1853737.96		
3	756.52	697683.38	1853801.12		
4	759.00	697740.17	1853806.01		
5	758.75	697746.45	1853868.45		
6	758.50	697739.07	1853967.77		
7	757.85	697732.61	1854054.75		
8	758.75	697754.84	1854123.39		
57	759.00	697745.83	1853975.32		
58	759.00	697745.28	1853982.18		
59	759.05	697744.73	1853989.05		
60	759.10	697744.30	1853995.92		
61	759.15	697743.74	1854002.78		
62	759.20	697743.19	1854009.64		



KEY MAP
NTS

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Corroding Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-1651 - WEB www.korda.com

STORM SEWER & GRADING PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

DIVISION USE ONLY	OWNER		
	CONTRACTOR		
	INSPECTOR		
	AGREEMENT	COMPLETED	
	RPD / CKD / CID / CON.DR.		
	INDEX DETAIL	RECORD FILE	

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 9 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE
STORM SEWER & GRADING PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

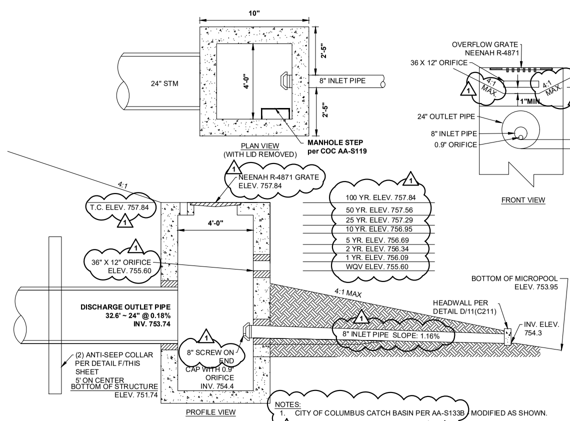
C209

CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

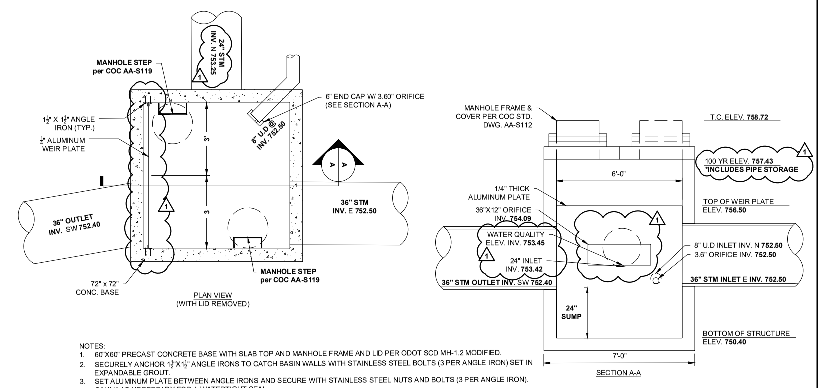
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 9:49 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 15220/2022_CMHA Aspire Housing_15220.rvt



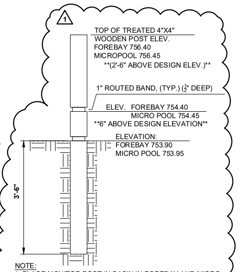
NOTES:
1. CITY OF COLUMBUS CATCH BASIN PER AA-S133B MODIFIED AS SHOWN.

A DETAIL
OUTLET CONTROL STRUCTURE 11 FOR NORTH BASIN — N.T.S.



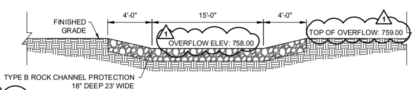
NOTES:
1. 60"X60" PRECAST CONCRETE BASE WITH SLAB TOP AND MANHOLE FRAME AND LID PER ODOT SCD MH-1.2 MODIFIED.
2. SECURELY ANCHOR 1½"X1½" ANGLE IRONS TO CATCH BASIN WALLS WITH STAINLESS STEEL BOLTS (3 PER ANGLE IRON) SET IN EXPANDABLE GROUT.
3. SET ALUMINUM PLATE BETWEEN ANGLE IRONS AND SECURE WITH STAINLESS STEEL NUTS AND BOLTS (3 PER ANGLE IRON). CAULK AS NECESSARY FOR A WATERTIGHT SEAL.

B DETAIL
OUTLET CONTROL STRUCTURE 5 — N.T.S.

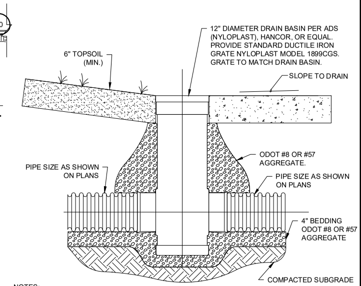


NOTE:
1. PLACE MONITOR POST IN BASIN IN FOREBAY AND MICRO POOL PER SHEET.

D DETAIL
SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST FOR NORTH BASIN — N.T.S.

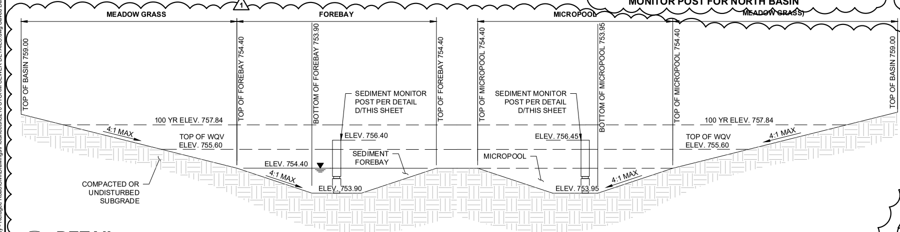


E DETAIL
OVERFLOW SPILLWAY FOR NORTH BASIN — N.T.S.

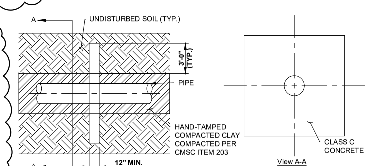


NOTES:
1. ALL STORM PIPE SHALL BE INSTALLED PER SPECIFICATION SECTION 33 40 00. THE PIPE JOINTS SHALL BE WATERTIGHT.
2. PIPE, FITTINGS, AND CASTINGS SHALL BE FROM THE SAME MANUFACTURER.
3. DRAIN BASIN SHALL BE USED AT ALL CHANGES IN PIPE ELEVATION, CHANGES IN PIPE SIZE, CHANGES IN DIRECTION, AND CHANGES IN PIPE TYPE.
4. PROVIDE WATERTIGHT ADAPTERS FOR ALL PLASTIC PIPING SYSTEMS OTHER THAN THAT NOTED.

G DETAIL
DRAIN BASIN — N.T.S.



C DETAIL
EXTENDED DRY BASIN W/ FOREBAY AND MICROPOOL TYPICAL SECTION FOR NORTH POND — N.T.S.



NOTES:
1. SPACING BETWEEN ADJACENT COLLARS SHALL BE A MINIMUM OF 5 FEET WITH THE FIRST COLLAR BEING A MINIMUM OF 5 FEET FROM THE INLET.
2. FURNISH A MINIMUM OF 2 COLLARS PER OUTLET CONDUIT.
3. ALL ANTI-SEEP COLLARS AND THEIR CONNECTIONS SHALL BE WATERTIGHT.

F DETAIL
ANTI-SEEP COLLAR — N.T.S.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY: KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY — OWNER / CONTRACTOR / INSPECTOR / AGREEMENT / COMPLETED / RPD / CKD / CID / CON.DR. / INDEX DETAIL / RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A; VERT 1" = N/A — SHEET: 10 / 25
CONTRACT DRAWING NO. CC-20647 — RECORD PLAN NO.

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C210 STORM SEWER DETAILS.dwg Saved Date:30-May-2025 10:03 AM Plot Date:11:54 AM Saved By: EMEHAN

KORDA — KORDA / NEMETH ENGINEERING, 1650 WATERMARK DRIVE SUITE 200 COLUMBUS, OHIO 43215
DRAWN BY: EAM — DESIGNED BY: EAM — CHECKED BY: EJW — PROJECT NUMBER: 2022-0431

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR CMHA
COLUMBUS METROPOLITAN HOUSING AUTHORITY — COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan — 300 SPRUCE STREET, SUITE 300, COLUMBUS, OHIO 43215, PHONE: 614-461-4664, CERT. NO: FIRM 00197475

DRAWING TITLE: STORM SEWER DETAILS

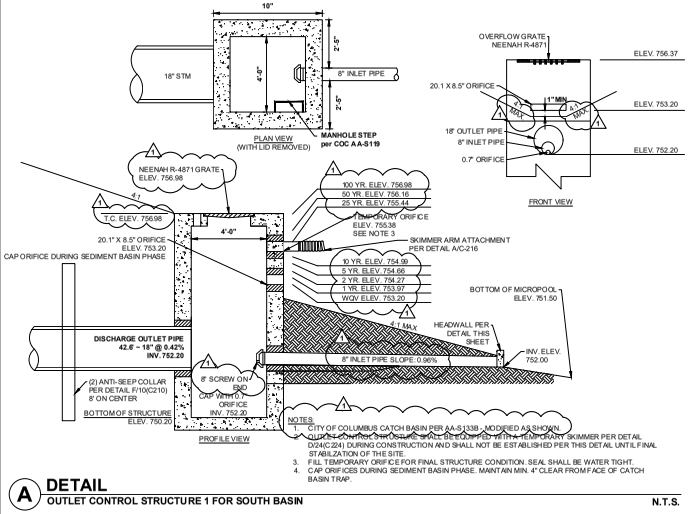
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C210
CD PROGRESS SET

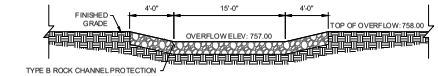
© 2024 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 10:03 AM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

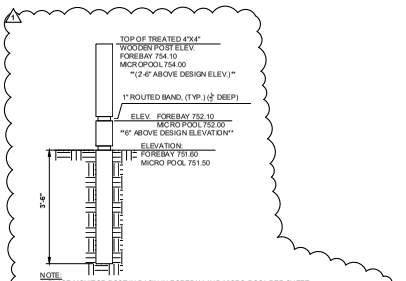
© 2024 MOODY NOLAN, INC.



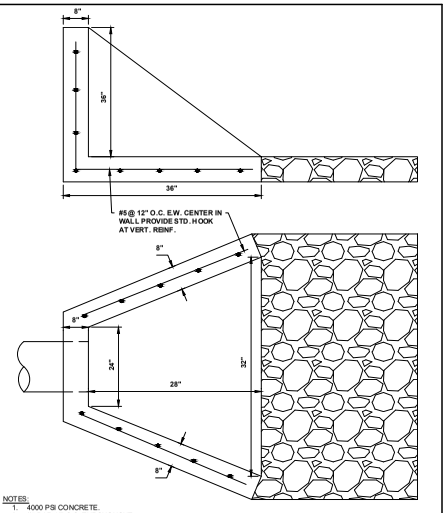
A DETAIL
OUTLET CONTROL STRUCTURE 1 FOR SOUTH BASIN N.T.S.



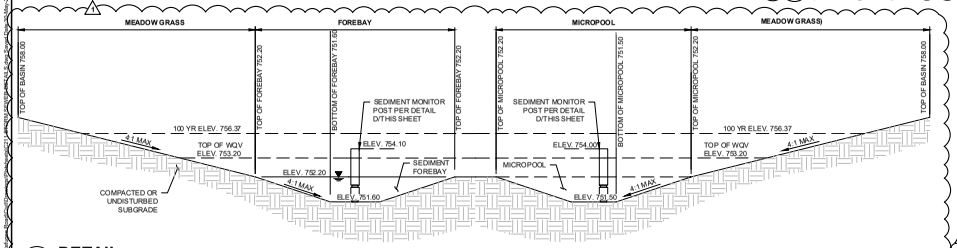
C DETAIL
OVERFLOW SPILLWAY FOR SOUTH BASIN N.T.S.



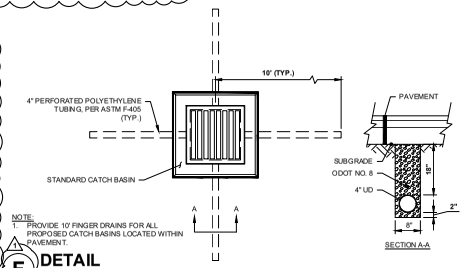
D DETAIL
SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST FOR SOUTH POND FOR SOUTH BASIN N.T.S.



E DETAIL
HEADWALL N.T.S.



B DETAIL
EXTENDED DRY BASIN W/ FOREBAY AND MICROPOOL TYPICAL SECTION FOR SOUTH BASIN N.T.S.



F DETAIL
PAVEMENT UNDERDRAIN N.T.S.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Corroding Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0001 - WEB www.korda.com

STORM SEWER DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY		OWNER			
		CONTRACTOR			
		INSPECTOR			
		AGREEMENT	COMPLETED		
		RPD	CKD	CID	CON.DR.
		INDEX DETAIL		RECORD FILE	

SCALE: HORIZ 1" = N/A VERT 1" = N/A
SHEET: 11 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPING OPPORTUNITIES, BUILDING COMMUNITIES

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C211
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

PLOT VERSION: 2023
PRINT DATE: 5/30/2025 10:08 AM
FILE INFO: Autodesk Docs://24044 CMHA Aspire Housing 25232/24044_CMHA Aspire Housing_ASDH_R23.rvt

BURIED DETENTION SYSTEM

GENERAL NOTES
1. PROVIDE BURIED DETENTION SYSTEM AS DESCRIBED ON PAGES 12-13(C213-C214). THIS SYSTEM CONSISTS OF ADS STORMTECH CHAMBER MC-3500.
2. THE CONTRACTOR SHALL PROVIDE THE CITY REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR THE WATER DETENTION LAYS OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

STORMTECH CHAMBER SPECIFICATIONS
1. CHAMBERS SHALL BE STORMTECH MC-3500 OR APPROVED EQUAL.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45X76 DESIGNATION SS.
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
7. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F218 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
8. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM
1. STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
   - STONESHOOTER LOCATED OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM - _" SPACING BETWEEN THE CHAMBER ROWS.
7. INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" INTO CHAMBER END CAPS.
8. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE 3/4-2" MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
9. STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
10. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
11. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT
1. STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
2. THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
   - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
   - NO RUBBER TIRED LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500 CONSTRUCTION GUIDE".
3. FULL 36" OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.
4. CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

UNDERGROUND DETENTION VOLUME SUMMARY

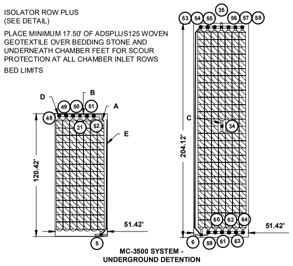
CHAMBER BED	NO. & TYPE OF CHAMBERS	VOID SPACE (%)	CHAMBER VOLUME (C.F.)	STONE VOLUME (C.F.)	TOTAL STORAGE VOUME (C.F.)
WEST BED	112 - MC3500	40	12,523	8,612	21,135
EAST BED	187 - MC3500	40	20,800	14,181	34,981
TOTALS	299 - MC3500	40	33,323	22,794	56,116

THE CONTRACTOR SHALL PROVIDE THE CITY REPORTS FROM A CERTIFIED LABORATORY VERIFYING THE AGGREGATE FOR THE WATER DETENTION LAYERS OF THE STORMWATER DETENTION FACILITY MEETS OR EXCEEDS 40% VOID SPACE

ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS



PART TYPE	ITEM ON LAYOUT	DESCRIPTION
PREFABRICATED END CAP	A	24" BOTTOM CORED END CAP, TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS
MANIFOLD	B	24" X 24" BOTTOM MANIFOLD ADS N-12
PIPE CONNECTION	C	24" BOTTOM CONNECTION
CONCRETE STRUCTURE	D	PER PLANS
UNDERDRAIN	E	8" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN
	F	

PROPOSED LAYOUT

QUANTITY	DESCRIPTION
299	STORMTECH MC-3500 CHAMBERS
30	STORMTECH MC-3500 END CAPS
12	STONE ABOVE (IN)
9	STONE BELOW (IN)
40	% STONE VOID
55,707	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
16,688	SYSTEM AREA (SF)
855	SYSTEM PERIMETER (FT)

SCP ESTIMATE OF QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
203	1	LS	EXCAVATION
604	1	EA	OUTLET CONTROL STRUCTURE PER DETAIL A/10(C210)
604	1	EA	OUTLET CONTROL STRUCTURE PER DETAIL B/10(C210)
604	1	EA	OUTLET CONTROL STRUCTURE PER DETAIL A/11(C211)
604	3	EA	3'X3' CATCH BASIN PER AA-S133B
604	2	EA	4'X4' CATCH BASIN PER AA-S133B
604	18	EA	48" MANHOLE PER AA-S102 TYPE C
605	333	LF	8" PIPE UNDERDRAIN
623	1	LS	CONSTRUCTION LAYOUT STAKES
624	1	LS	MOBILIZATION
901	30	LF	8" STORM PIPE, WITH TYPE 1 BEDDING
901	350	LF	24" STORM PIPE, WITH TYPE 1 BEDDING
901	220	LF	36" STORM PIPE, WITH TYPE 1 BEDDING
SPEC	1	EA	ADS STORMTECH MC-3500 UNDERGROUND STORMWATER DETENTION STRUCTURE (299 CHAMBERS, 30 END CAPS, 14 INSPECTION PORTS)
SPEC	2111	CY	EMBEDMENT STONE
SPEC	4231	SY	NON-WOVEN GEOTEXTILE FABRIC
SPEC	1	EA	ALUMINUM WEIR PLATE W/ 24" X 8" ORIFICE & 3.4" DIA. ORIFICE
SPEC	1	EA	NEENAH R-3700 ORIFICE COVER
SPEC	3	LS	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION FOR POST-CONSTRUCTION STORMWATER CONTROL PRACTICE
SPEC	1	LS	AS-BUILT SURVEY AND ENGINEERING CERTIFICATION FOR TEMPORARY SEDIMENT BASINS
SPEC	4	EA	ANTI SEEP COLLAR PER DETAIL F/10(C210)
SPEC	4	EA	HEADWALL PER DETAIL E/11(C211)

NOTES:
1. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
2. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
3. THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
4. THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY.
5. NOT FOR CONSTRUCTION: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

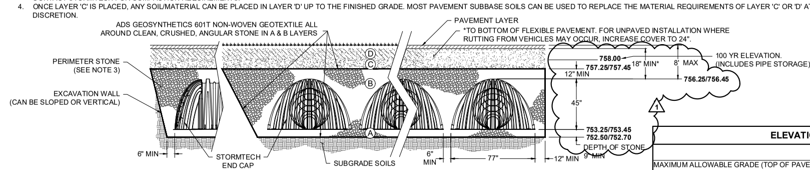
A DETAIL
ADS UNDERGROUND DETENTION SYSTEM

NTS

ACCEPTABLE FILL MATERIALS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
4. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ELEVATIONS

ELEVATIONS	WEST BED	EAST BED	AS-BUILT
MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	764.25	764.45	
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	758.25	758.45	
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	757.75	757.95	
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE):	757.75	757.95	
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	757.75	757.95	
TOP OF STONE:	757.25	757.45	
TOP OF MC-3500 CHAMBER:	756.25	756.45	
24" X 24" BOTTOM MANIFOLD INVERT:	753.42	753.62	
24" ISOLATOR ROW PLUS INVERT:	753.42	753.62	
BOTTOM OF MC-3500 CHAMBER:	753.25	753.45	
UNDERDRAIN INVERT:	752.50	752.70	
BOTTOM OF STONE:	752.50	752.70	

B SECTION
ADS UNDERGROUND DETENTION SYSTEM

NTS

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 - FAX 614-487-8981 - WEB www.korda.com

STORM SEWER DETAILS

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

				OWNER	
				CONTRACTOR	
				INSPECTOR	
				AGREEMENT	COMPLETED
				RPD	CKD
				INDEX DETAIL	CID CON.DR. RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = N/A VERT 1" = N/A

SHEET: 12 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

File: H:\Projects\2022\2022-0417_00 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C212 STORM SEWER DETAILS.dwg Saved Date:30-May-2025 10:12 AM Plot Date:11:55 AM Saved By: EMEHAN

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
STORM SEWER DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

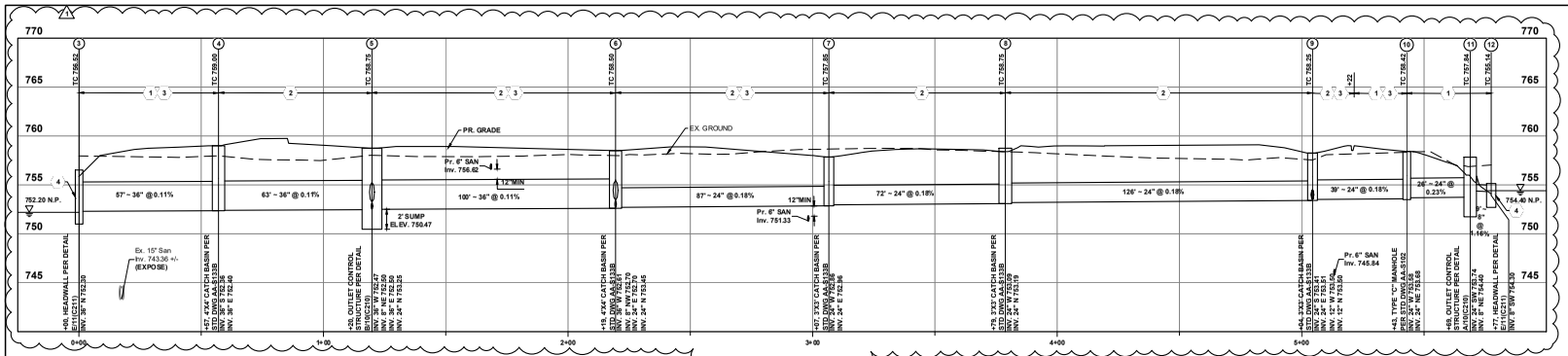
C212

CD PROGRESS SET

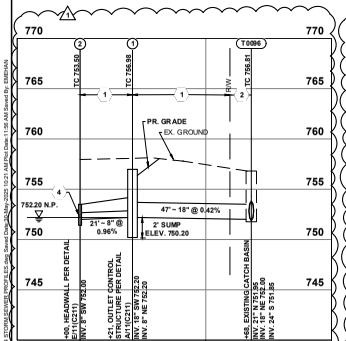
© 2024 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 10:12 AM
FILE INFO: Autodesk Docs://24254 CMHA Aspire Housing- R23/24254_CMHA Aspire Housing_ARCH_R23.rvt

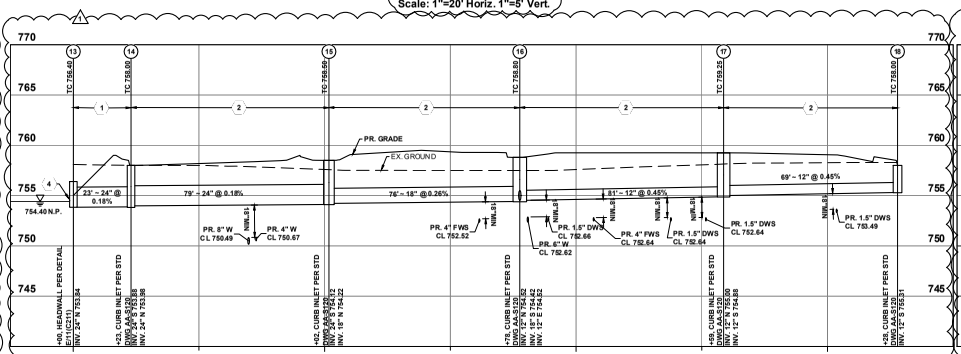
© 2024 MOODY NOLAN, INC.



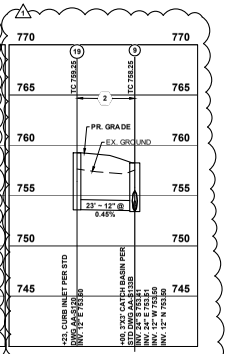
STORM 3-12 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM T0096-2 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM 13-18 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM 9-19 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911.
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. SEWER PIPE TO HAVE WATERTIGHT JOINTS PER CMSC ITEM 901.15 AND TRENCH DAMS PER CMSC ITEM 901.
4. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0001 - WEB www.korda.com

STORM SEWER PROFILES

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY	
	OWNER
	CONTRACTOR
	INSPECTOR
AGREEMENT	COMPLETED
RPD / CKD	CID / CON.DR.
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"
SHEET: 14 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATING OPPORTUNITY. COLUMBUS.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE
STORM SEWER PROFILES

PROGRESS DRAWING NOT FOR CONSTRUCTION

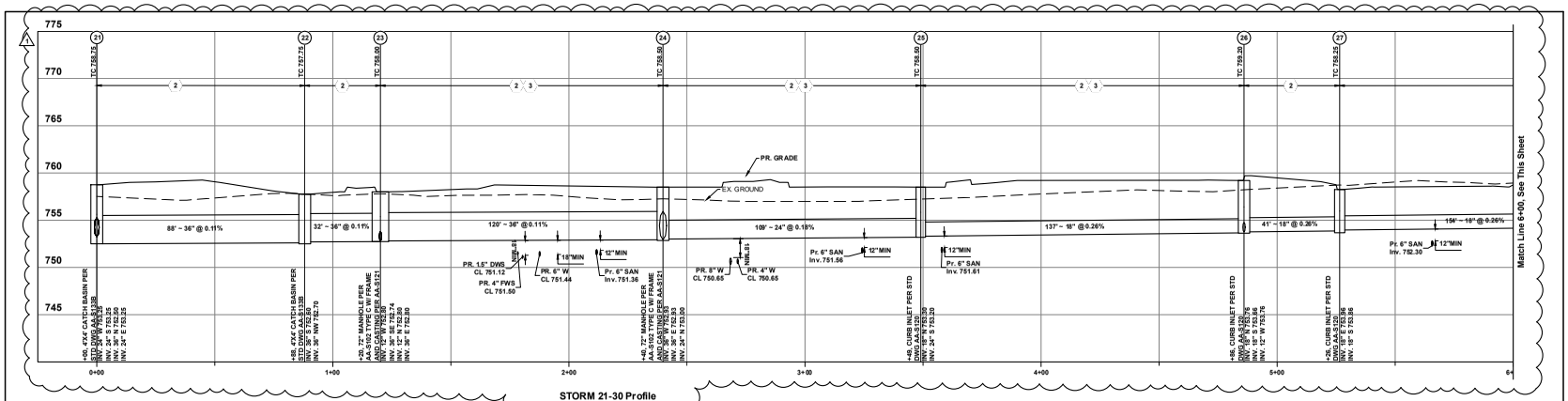
05/01/2025
23446
C214
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

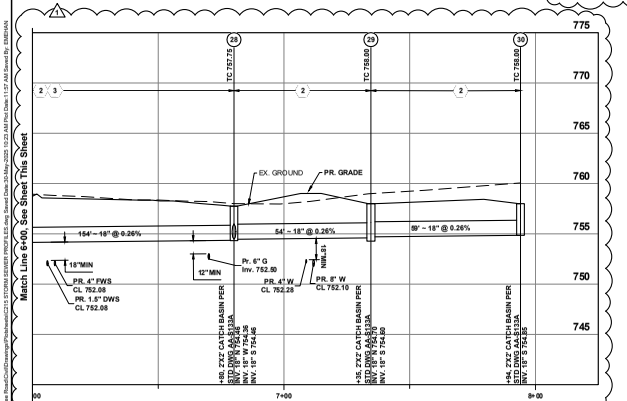
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 10:21 AM
FILE INFO: Autodesk Docs://24044 CMHA Aspire Housing 25232/24044_CMHA Aspire Housing_ARCH_R23.rvt

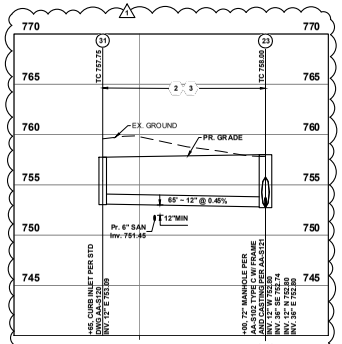
© 2024 MOODY NOLAN INC.



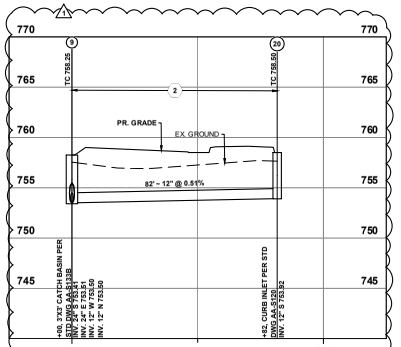
STORM 21-30 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM 21-30 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM 23-31 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM 9-20 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

CODED NOTES:
1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912
3. SEWER PIPE TO HAVE WATERTIGHT JOINTS PER CMSC ITEM 901.15 AND TRENCH DAMS PER CMSC ITEM 901.
4. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7600
TEL 614-487-1650 - FAX 614-487-0001 - WEB www.korda.com

STORM SEWER PROFILES

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY			
		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
RPD	CKD	CID	CON.DR.
INDEX DETAIL		RECORD FILE	

SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"
SHEET: 15 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER PROFILES

05/01/2025
23446
C215
CD PROGRESS SET

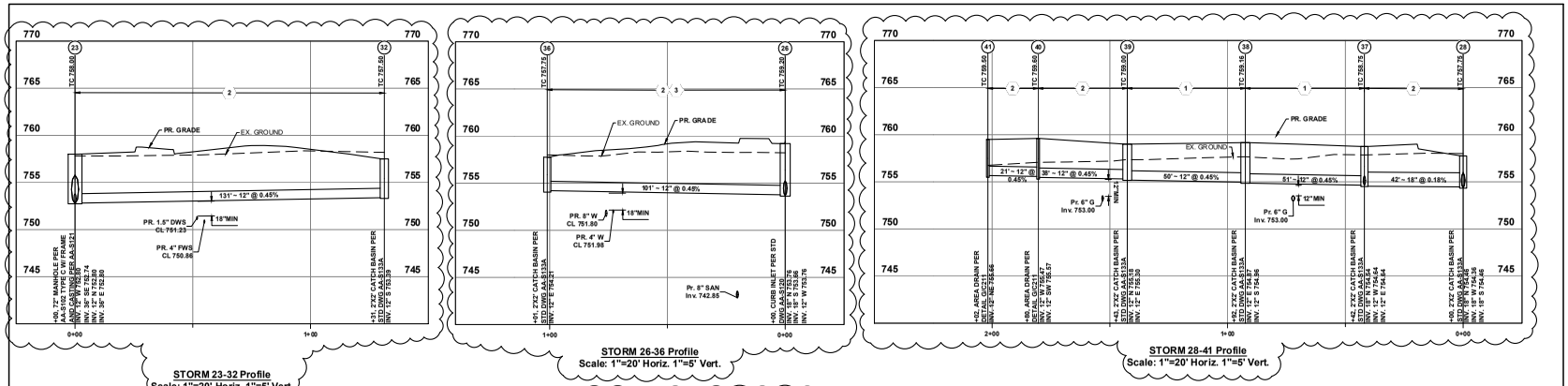
PROGRESS DRAWING NOT FOR CONSTRUCTION

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

File: N:\Projects\2022\2022-0431 - 3349 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C215 STORM SEWER PROFILES.dgn Time of Data: 5-May-2025 10:23 AM Plot Date: 5-May-2025 10:23 AM Plotted By: GAM/mh
REVIT VERSION: 2023
PRINT DATE: 5/30/2025 10:23 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 9520/2022-0431 CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN INC.



STORM 23-32 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

STORM 26-36 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

STORM 28-41 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

STORM 37-45 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

STORM 34-24 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

(X) CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911.
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912.
3. SEWER PIPE TO HAVE WATERTIGHT JOINTS PER CMSC ITEM 901.15 AND TRENCH DAMS PER CMSC ITEM 901.
4. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601, 18" DEEP X 10' LONG X WIDTH OF HEADWALL.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-1651 - WEB www.korda.com

STORM SEWER PROFILES

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

DIVISION USE ONLY			
		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
		RPD / CKD	CID / CON.DR.
		INDEX DETAIL	RECORD FILE

SCALE: HORIZ 1" = 20'-0" VERT 1" = 5'-0"

SHEET: 16 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATING OPPORTUNITIES. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
STORM SEWER PROFILES

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

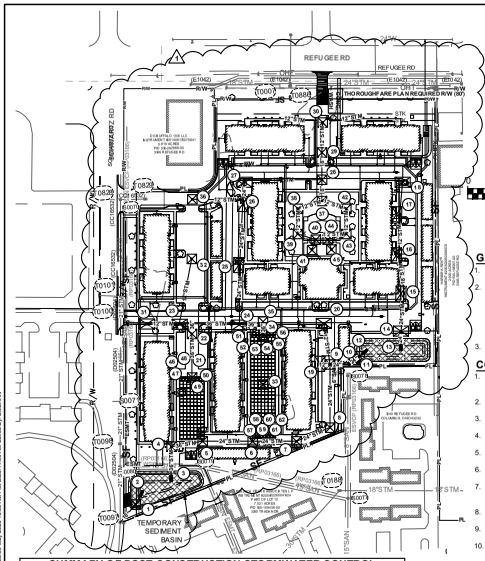
23446

C216

CD PROGRESS SET

File: W:\Projects\2022\2022-0431 - 3349 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plansheets\C216 STORM SEWER PROFILES.dgn Time of Data: 30-May-2025 10:27 AM Plot Date: 30-May-2025 10:27 AM Plotted By: GAM/mh
PLOT VERSION: 2023
PLOT DATE: 5/30/2025 10:27 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 15220/CMHA_CMHA Aspire Housing_22DCH_R23.rvt

© 2024 MOODY NOLAN INC.



LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

- 800 — INDEX CONTOUR
- 790 — INTERMEDIATE CONTOUR
- LIMITS OF CONSTRUCTION
- SILT FENCE PER DETAIL E/23(C223)
- INLET FILTER PER DETAIL D/2B(C223)
- STABILIZED CONSTRUCTION ENTRANCE PER DETAIL B/23(C223)
- CW — CONCRETE WASHOUT PER DETAIL C/23(C223)
- EROSION CONTROL MATTING PER DETAIL A/24(C224)

100 200 300
GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

1. PROVIDE INLET SEDIMENT FILTER PER DETAIL D/23(C223) AT ALL EXISTING AND PROPOSED STORM INLET STRUCTURES RECEIVING FLOW FROM DISTURBED AREAS.
2. SOIL EROSION AND BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. BMP MEASURES SHALL BE TO THE SATISFACTION OF THE OHIO EPA. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MODIFYING BMP'S AND SWPPP AS NECESSARY DUE TO CONSTRUCTION PHASING AS THE PROJECT ADVANCES TO SATISFY THE OHIO EPA TO COMPLY WITH OHIO EPA PERMIT NO. OHC000006 "GENERAL PERMIT AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM".
3. UNDER NORMAL CIRCUMSTANCES, NO OVERLAND DISCHARGE SHALL BE ALLOWED FROM SEDIMENT BASIN.

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT. APPLIES TO ALL SWPS PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWPS PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).

SUMMARY OF POST-CONSTRUCTION STORMWATER CONTROL FACILITIES

CONTROL/OUTLET STRUCTURE NO. (AS REFERENCED ON PLANS)	CONTROL FUNCTION	DRAINAGE AREA TO CONTROL FACILITY (ACRES)	FACILITY TYPE
1	QUALITY & QUANTITY	0.84	EXTENDED DRY DETENTION
5	QUALITY & QUANTITY	7.15	UNDERGROUND DETENTION
11	QUALITY & QUANTITY	1.310	EXTENDED DRY DETENTION

SUB-SUMMARY OF EROSION CONTROL ITEMS

ITEM NUMBER	QUANTITY	UNIT	ITEM DESCRIPTION	REF. SHEET
207	37	EA	INLET PROTECTION	2I(C223)
207	1	EA	CONCRETE WASHOUT	2I(C223)
207	2451	LF	SILT FENCE	2I(C223)
207	1	EA	CONSTRUCTION ENTRANCE	2I(C223)
207	14807	SF	EROSION MATTING	2K(C224)
207	2	EA	SEDIMENT MONITOR	10-11(C210-C211)

PERMANENT STABILIZATION

AREA REQUIRING PERMANENT STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY AREAS THAT WILL LIE DORMANT FOR ONE YEAR OR MORE.	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE.
ANY AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND AT FINAL GRADE.	WITHIN TWO DAYS OF REACHING FINAL GRADE.
ANY OTHER AREAS AT FINAL GRADE.	WITHIN SEVEN DAYS OF REACHING FINAL GRADE WITHIN THAT AREA.

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE PERMIT.

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE.	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.
FOR ALL CONSTRUCTION ACTIVITIES, ANY DISTURBED AREAS THAT WILL BE DORMANT FOR MORE THAN 14 DAYS BUT LESS THAN ONE YEAR, AND NOT WITHIN 50 FEET OF A SURFACE WATER OF THE STATE.	WITHIN SEVEN DAYS OF THE MOST RECENT DISTURBANCE WITHIN THE AREA. FOR RESIDENTIAL SUBDIVISIONS, DISTURBED AREAS MUST BE STABILIZED AT LEAST SEVEN DAYS PRIOR TO TRANSFER OF PERMIT COVERAGE FOR THE INDIVIDUAL LOT(S).
DISTURBED AREAS THAT WILL BE IDLE OVER WINTER.	PRIOR TO THE ONSET OF WINTER WEATHER.

EROSION AND SEDIMENT CONTROL NARRATIVE

EROSION AND SEDIMENT CONTROL NARRATIVE:

PLAN DESIGNER: KORDA/NEMETH ENGINEERING INC. 1650 WATERMARK DRIVE, SUITE 200 COLUMBUS, OHIO 43215 PHONE: (614) 487-1650 FAX: (614) 487-8981

OWNER: NAME: COLUMBUS METROPOLITAN HOUSING AUTHORITY (CMHA) ADDRESS: 880 E. 11TH AVE CONTACT: MIKE WAGNER PHONE: 614-421-6000 EMAIL: MWAGNER@CMHANET.COM

NOI PERMIT: XXXXXXX

EXISTING SITE CONDITIONS: THE SITE CONSISTS OF WOODS AREA WITH AN EXISTING WETLAND IN THE CENTER OF THE SITE.

PROJECT DESCRIPTION: THE PROJECT INCLUDES A MULTI-FAMILY RESIDENTIAL CAMPUS. THERE ARE 3 RESIDENTIAL BUILDING TYPES AS WELL AS 1 STORY GARAGES AND A 2 STORY CLUBHOUSE BUILDING IN THE CENTER OF THE SITE. THERE IS A POOL, OUTDOOR GRILL, AND OUTDOOR COMMUNITY GATHERING SPACE ADJACENT TO THE CLUBHOUSE FOR RESIDENTS TO USE.

DISTURBED AREA: 9.30 ACRES

SITE DRAINS TO: SITE GENERALLY DRAINS TO A CITY OF COLUMBUS MUNICIPAL STORM SEWER WHICH EVENTUALLY DISCHARGES TO ALUM CREEK.

SITE BMPS: LOCATIONS OF SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATION OF BMPS. NO POST-CONSTRUCTION BMPS WILL BE NECESSARY. LESS THAN ONE ACRE DRAINS TO EACH OF THE INLET PROTECTION(S), THEREFORE A TEMPORARY SEDIMENT BASIN WILL NOT BE REQUIRED.

ADJACENT AREAS: THE SITE IS BOUNDED BY REFUGEE RD TO THE NORTH, EXISTING RESIDENCES TO THE SOUTH, AND TO THE EAST, AND SCHWARTZ RD TO THE WEST.

SOILS: ACCORDING TO SOIL SURVEY RECORDS, THE SOIL TYPES ON THE SITE ARE BENNINGTON SILT LOAM WHICH IS HYDROLOGIC SOIL GROUP C/D AND BENNINGTON-URBAN LAND COMPLEX WHICH IS HYDROLOGIC SOIL GROUP C/D.

EROSION AND SEDIMENT CONTROL MEASURES: PROVIDE SILT FENCE AT CRITICAL AREAS AS SHOWN ABOVE. ANY NEW OR EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL. PROVIDE INLET PROTECTION AT EXISTING AND PROPOSED DRAINAGE STRUCTURES. ANY OFFSITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFFSITE AREAS NOT COVERED BY A SEPERATE NOI OR SWPS SHALL BE COORDINATED WITH THE OHIO EPA. TRENCH GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM. USE MEANS NECESSARY TO CONTROL DUST ONSITE AND PREVENT TRACKING SOIL OFFSITE.

JURISDICTION: EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

COEFFICIENTS: PRE-/DEVELOPED CURVE NUMBER = 83
POST-DEVELOPED CURVE NUMBER = 93
EXISTING IMPERVIOUS AREA = 0.01 ACRES
PROPOSED IMPERVIOUS AREA = 6.47 ACRES

CONSTRUCTION SEQUENCE

UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.

1. UTILIZE EXISTING PAVEMENT AS STABILIZED CONSTRUCTION ENTRANCE.
2. CONSTRUCT TEMPORARY SEDIMENT CONTROLS, PERIMETER EROSION CONTROL MEASURES. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF CONSTRUCTION.
3. DEMOLISH.
4. BACKFILL.
5. ROUGH GRADING. ADD ADDITIONAL SILT FENCE IF NECESSARY.
6. COMPLETE FINE GRADING AND PAVEMENT REPLACEMENT.
8. ONCE FINAL SEEDING HAS BEEN ESTABLISHED, CLEAN SEDIMENT FROM UNDERDRAINS AND STRUCTURES.
9. REMOVE TEMPORARY EROSION CONTROL MEASURES.

MAINTENANCE/INSPECTION PROCEDURES

1. CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24-HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
2. MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
3. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
4. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.
5. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTES

1. SOLID, SANITARY AND TOXIC WASTES MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
2. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ON TO THE GROUND OR INTO A STORM WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH SOLID AND HAZARDOUS WASTES.
3. ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.
4. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.
5. COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

STABILIZATION PROCEDURES

CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED.

DEWATERING

DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 – Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-8981 WEB www.korda.com

OVERALL EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY
OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A VERT 1" = N/A
SHEET: 17 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT | OWNERSHIP | COLLABORATION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
OVERALL EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

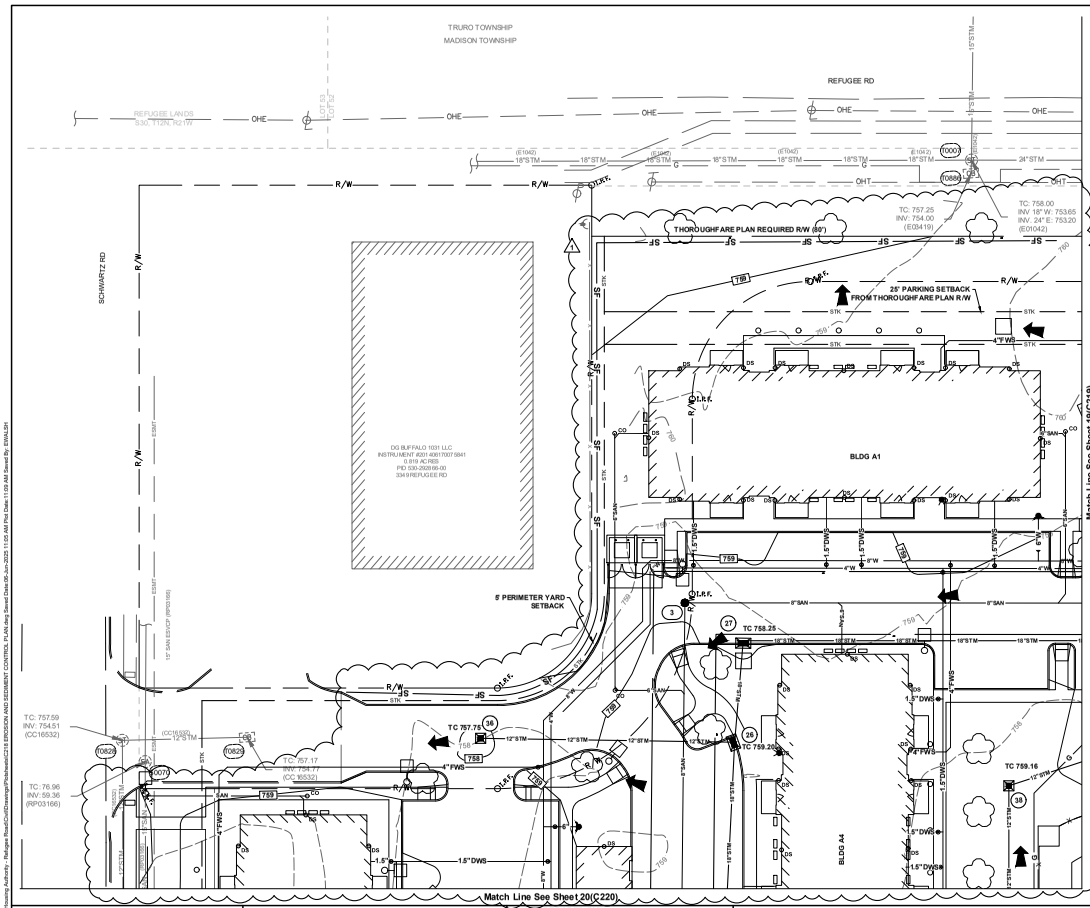
05/01/2025
23446
C217
CD PROGRESS SET

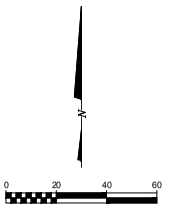
KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

File: M:\Projects\2022\2022-0431 - 3349 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotted\C217 OVERALL EROSION AND SEDIMENT CONTROL PLAN.dwg Saved Date: 30-May-2025 - 09:36 AM Plot Date: 11:08 AM Saved By: EAM2144

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 10:39 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 1ES2/2022-0431 CMHA Aspire Housing_ASDCR_R23.rvt

© 2024 MOODY NOLAN, INC.





LEGEND

EXISTING

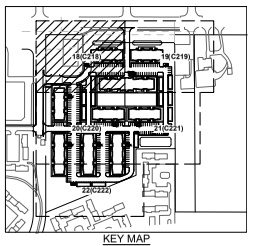
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

REFER TO SHEET 17(C217)

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTRACT . APPLIES TO ALL SWPS PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWPS PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).



KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7010
TEL 614-487-1650 FAX 614-487-9981 WEB www.korda.com

EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 18 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

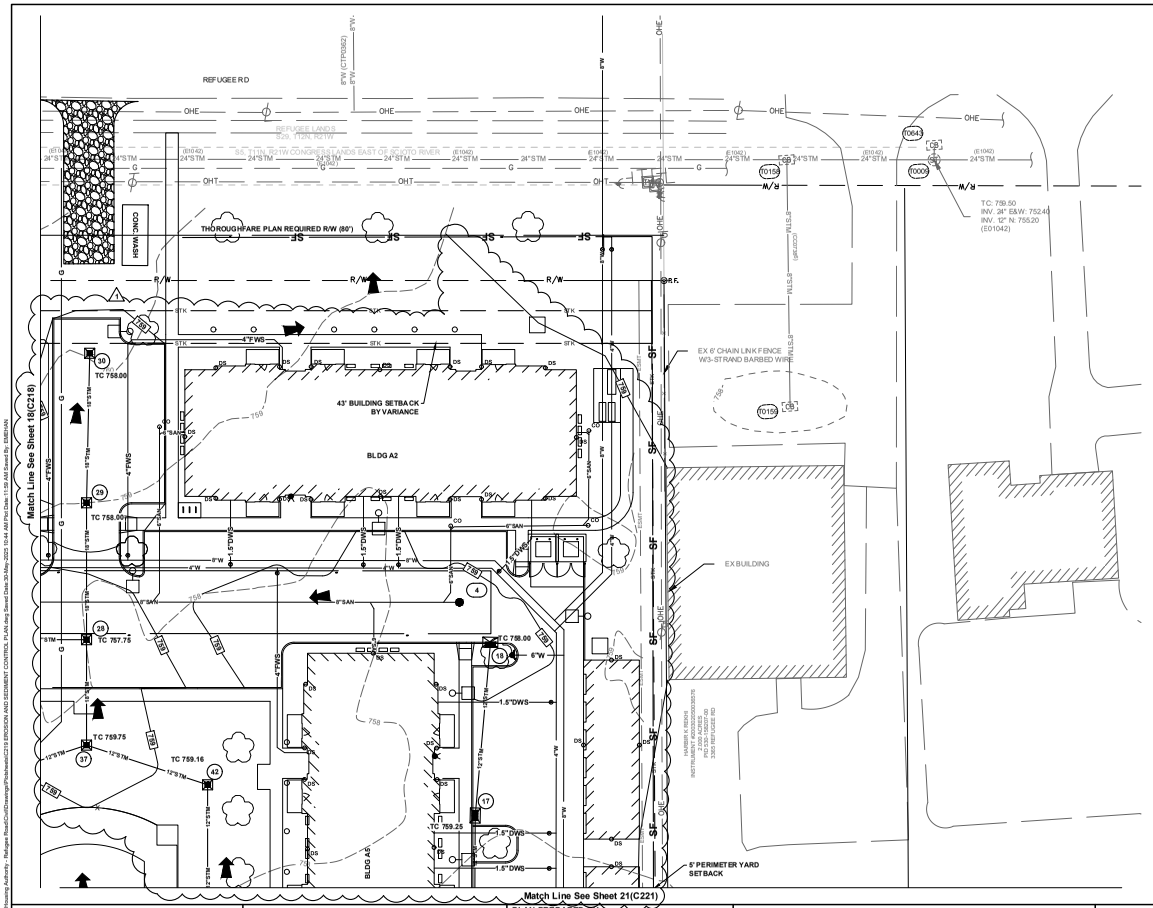
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C218
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 6/2/2025 11:05 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing RESIDENCE, CMHA Aspire Housing_ASDTI_R23.rvt

© 2024 MOODY NOLAN, INC.



0 20 40 60
GRAPHIC SCALE
SCALE IN FEET

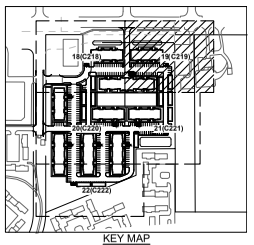
LEGEND

EXISTING
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED
REFER TO SHEET 17(C217)

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT . APPLIES TO ALL SWP3 PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).



KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Corporate Headquarters
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0301 - WEB www.korda.com

EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY	OWNER			
	CONTRACTOR			
	INSPECTOR		SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A	SHEET: 19 / 25
	AGREEMENT	COMPLETED		
RPD CKD CID CON.DR.			CONTRACT DRAWING NO. CC-20647	RECORD PLAN NO.
	INDEX DETAIL	RECORD FILE		

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM#01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DRAWING TITLE

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

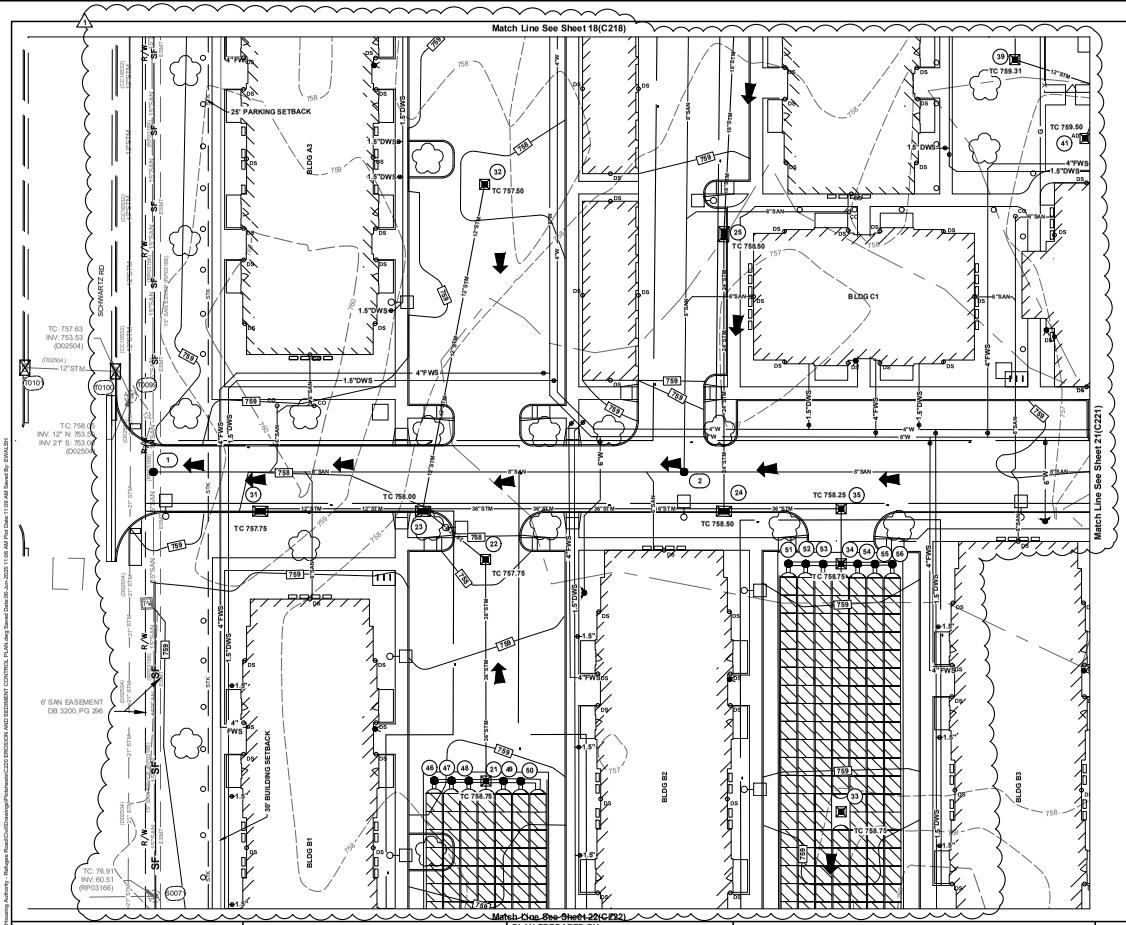
05/01/2025
23446
C219
CD PROGRESS SET

KORDA
KORDA/ NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 10:44 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ARCH_R23.rvt

File: N:\Projects\2022\2022-0431 - 3349 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotted\C219 EROSION AND SEDIMENT CONTROL PLAN.dwg Saved Date: 30-May-2025 10:44 AM Plotted By: EMEHAN

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

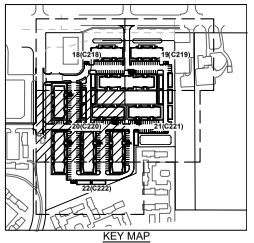
REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

REFER TO SHEET 17(C217)

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTRACT . APPLIES TO ALL SWPS PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWPS PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).



KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 – Columbus, Ohio 43215–7010
TEL 614-487-1650 FAX 614-487-9981 WEB www.korda.com

EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CKD / CID / CON.DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 20 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATIVE LIVING COLUMBUS

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C220

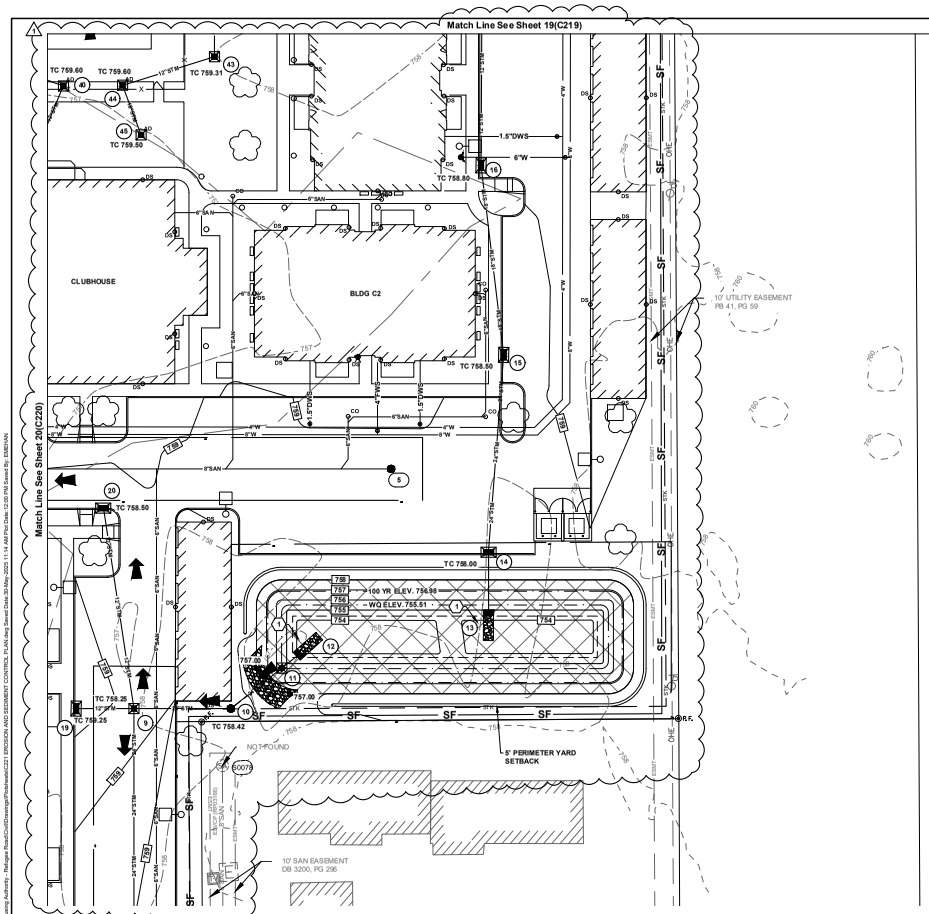
CD PROGRESS SET

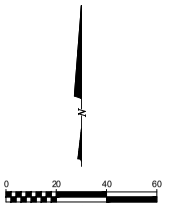
KORDA
KORDA/NEMETH ENGINEERING
16150 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	GAM
DESIGNED BY:	GAM
CHECKED BY:	EJW
PROJECT NUMBER	2022-0431

PRINT DATE: 6/2/2025 11:08 AM
FILE INFO: Autodesk Docs://24044 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

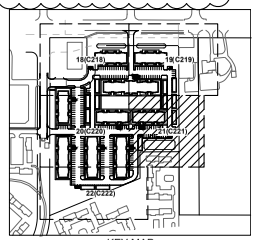
REFER TO SHEET 17(C217)

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT. APPLIES TO ALL SWP3 PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWPS PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA)

CODED NOTES:

1. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL D/10(C210).



KEY MAP
NTS

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Corporate Headquarters
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0650 - WEB www.korda.com

EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CKD | CID | CON.DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 21 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT | OWNERSHIP | STEWARDSHIP

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

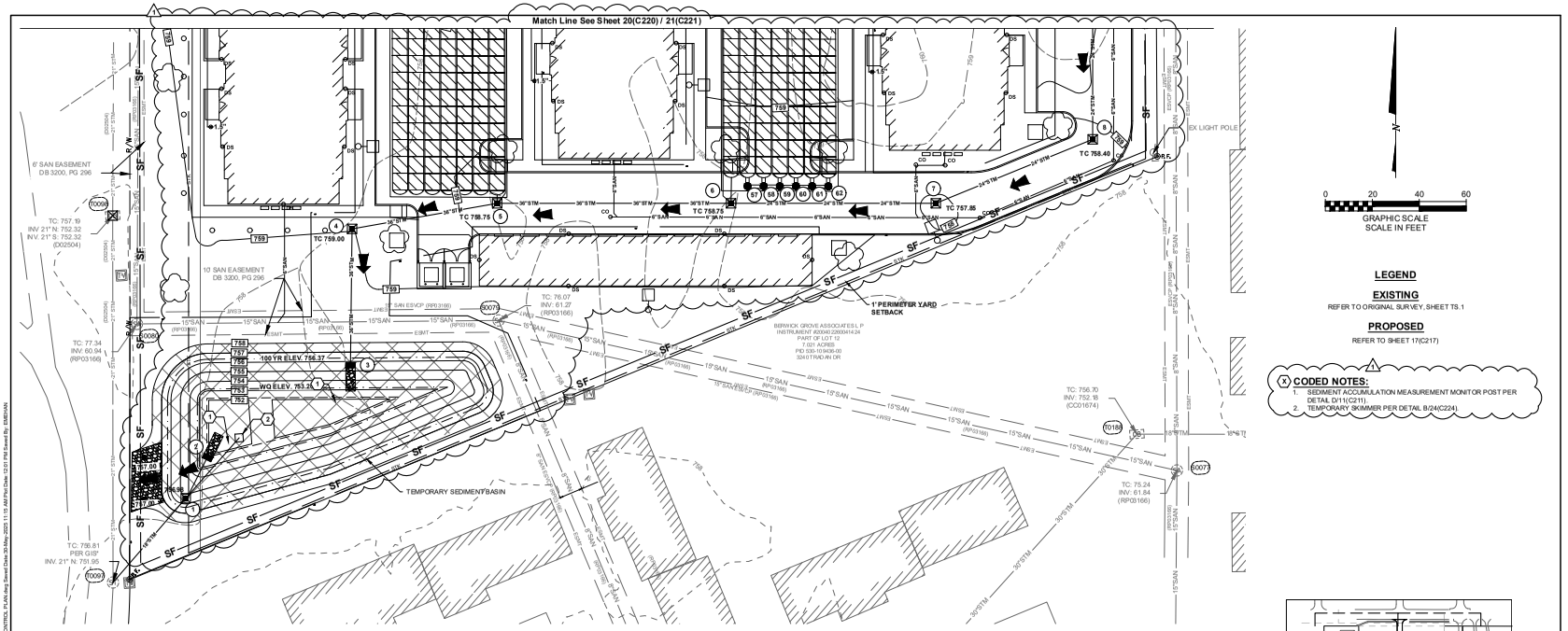
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C221
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

PRINT DATE: 5/30/2025 11:14 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 1522/2022-0431 CMHA Aspire Housing_R22.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS.1

PROPOSED

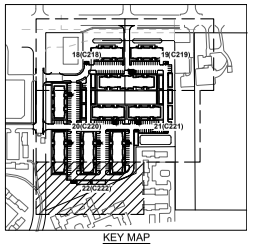
REFER TO SHEET 17(C217)

CODED NOTES:

1. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POST PER DETAIL D/11(C211).
2. TEMPORARY SKIMMER PER DETAIL B/24(C224).

COLUMBUS SWPPP NOTES:

1. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.
2. THE EXACT LOCATION OF THE CONCRETE WASHOUT(S) MAY BE FIELD LOCATED BY THE ON-SITE PROJECT ENGINEER/CONTACT. APPLIES TO ALL SWP3 PLAN REVIEW PAGES.
3. THE USE OF PORTABLE CONCRETE WASHOUT UNITS IS APPROVED (AND ENCOURAGED) FOR ALL CONSTRUCTION AREAS IN THE CITY OF COLUMBUS.
4. UPPER BANK ABOVE NORMAL WATER ELEVATION SHOULD BE STABILIZED QUICKLY WITH STRAW BLANKETS, JUTTE MATTING OR SIMILAR GEO-TEXTILE.
5. ALL EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.
6. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS.
8. THIS PLAN MUST BE POSTED ON-SITE. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ON-SITE AT ALL TIMES.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES OR COMPOST ROLLS HAVE TO BE A MINIMUM OF 12 INCHES IN DIAMETER NOW (OEPA).



KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7600
TEL 614-487-1650 - FAX 614-487-0301 - WEB www.korda.com

EROSION AND SEDIMENT CONTROL PLAN

PROJECT TITLE

PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

DIVISION USE ONLY							
				OWNER			
				CONTRACTOR			
				INSPECTOR			
				AGREEMENT	COMPLETED		
				RPD	CKD	CID	CON.DR.
				INDEX DETAIL		RECORD FILE	

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 22 / 25

CONTRACT DRAWING NO. CC-20647

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C222

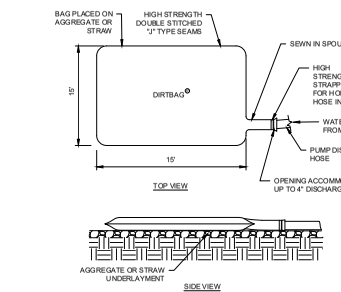
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BJW
PROJECT NUMBER 2022-0431

RECIT VERSION: 2023
PRINT DATE: 5/30/2025 11:15 AM
FILE INFO: Autodesk Docs://24504 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ARCH_R23.rvt

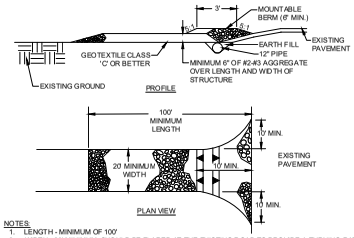
File: N:\Projects\2022\2022-0431 - OH Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plans\sheets\C222 EROSION AND SEDIMENT CONTROL PLAN.dwg Saved Date: 30-May-2025 11:15 AM Plot Date: 12:01 PM Saved By: BMEHAN

© 2024 MOODY NOLAN, INC.



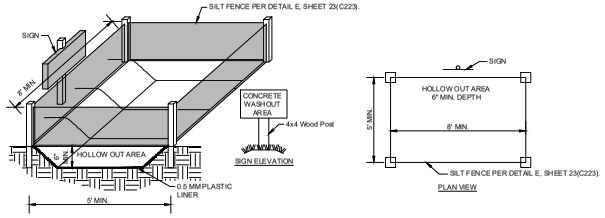
NOTES:
1. THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.
2. ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.
3. DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL ABOVE OF A TYPICAL SEDIMENT BAG INSTALLATION.

A DETAIL
DEWATERING BAG N.T.S.



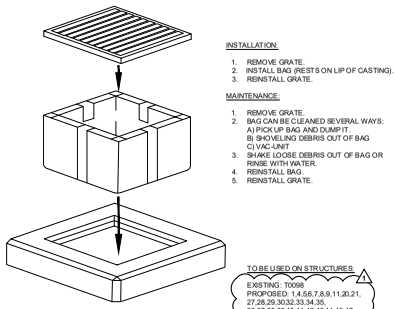
NOTES:
1. LENGTH - MINIMUM OF 100'
2. WIDTH - 20' MINIMUM. SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE.
4. STONE - CRUSHED AGGREGATE (#2 TO #3) OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

B DETAIL
STABILIZED CONSTRUCTION ENTRANCE N.T.S.



NOTES:
1. CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS.
2. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED PROPERLY.
3. PLACE PLASTIC LINER OVER THE ENTIRE HOLLOW OUT AREA PRIOR TO USE.
4. PROVIDE ITEMS NOTED ABOVE INCLUDING REMOVAL OF CONCRETE WASHOUT UPON COMPLETION OF THE PROJECT AS NOTED IN THE BID PRICE FOR THE PROJECT.
5. FILL HOLLOW AREA TO A DEPTH OF 4 TO 6 INCHES WITH CMSC ITEM 703 AGGREGATE, SIZE #57, #2, OR #4.
6. USE OF ROLL AWAY OR OTHER PORTABLE CONTAINERS IS AN ACCEPTABLE ALTERNATIVE (AND HIGHLY ENCOURAGED) PROVIDED THEY ARE USED IN ACCORDANCE WITH NPDES GUIDELINES ON CONCRETE WASHOUT.
7. NO STRAW BALES ALLOWED IN CONCRETE WASHOUT PER EPA.

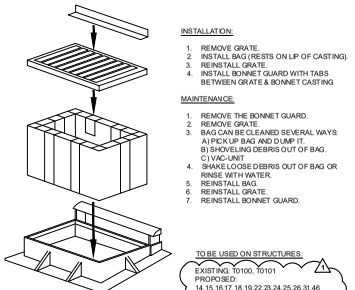
C DETAIL
CONCRETE TRUCK WASHOUT AREA N.T.S.



INSTALLATION:
1. REMOVE GRATE.
2. INSTALL BAG (RESTS ON LIP OF CASTING).
3. REINSTALL GRATE.

MAINTENANCE:
1. REMOVE GRATE.
2. BAG CAN BE CLEANED SEVERAL WAYS:
   A) PICK UP BAG AND DUMP IT.
   B) SHOVELING DEBRIS OUT OF BAG
   C) VAC-UNIT
3. SHAKE LOOSE DEBRIS OUT OF BAG OR RINSE WITH WATER.
4. REINSTALL BAG.
5. REINSTALL GRATE.

TO BE USED ON STRUCTURES:
EXISTING: T0098
PROPOSED: 1,4,5,6,7,8,9,11,20,21, 27,28,29,30,32,33,34,35, 36,37,38,39,40,41,42,43,44,45,47

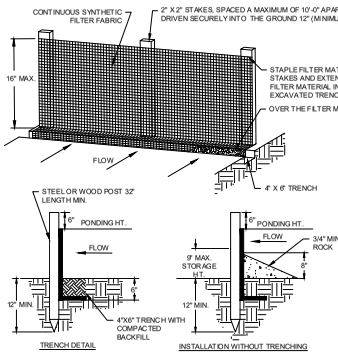


INSTALLATION:
1. REMOVE GRATE.
2. INSTALL BAG (RESTS ON LIP OF CASTING).
3. REINSTALL GRATE.
4. INSTALL BONNET GUARD WITH TABS BETWEEN GRATE & BONNET CASTING

MAINTENANCE:
1. REMOVE THE BONNET GUARD.
2. REMOVE GRATE.
3. BAG CAN BE CLEANED SEVERAL WAYS:
   A) PICK UP BAG AND DUMP IT.
   B) SHOVELING DEBRIS OUT OF BAG.
   C) VAC-UNIT
4. SHAKE LOOSE DEBRIS OUT OF BAG OR RINSE WITH WATER.
5. REINSTALL BAG.
6. REINSTALL GRATE.
7. REINSTALL BONNET GUARD.

TO BE USED ON STRUCTURES:
EXISTING: T0100, T0101
PROPOSED:
14,15,16,17,18,19,22,23,24,25,26,31,46

D DETAIL
INLET FILTER (BELOW GRATE INLET PROTECTION) N.T.S.



NOTES:

GENERAL
1. CONSTRUCT SILT FENCE BEFORE UPSLOPE DISTURBANCE BEGINS.
2. BRING ENDS OF SILT FENCE UPSLOPE SLIGHTLY SO THAT PONDING WATER WILL BE PREVENTED FROM FLOWING AROUND ENDS.
3. WHEN POSSIBLE PRESERVE VEGETATION 5 FEET UP UPSLOPE OF THE SILT FENCE. IF REMOVED, REESTABLISH WITHIN 7 DAYS FROM INSTALLATION OF FENCE.
4. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
5. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OF A 6-INCH OVERLAP, AND SECURELY SEALED.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
8. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES AND COMPOST ROLLS TO BE A MINIMUM OF 12" IN DIAMETER.

MAINTENANCE
1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.
2. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
3. ANY SEDIMENT DEPOSITS REMAINING AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

E DETAIL
SILT FENCE N.T.S.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Corporate Headquarters
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0001 - WEB www.korda.com

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY		OWNER			
		CONTRACTOR			
		INSPECTOR		SCALE: HORIZ 1" = N/A VERT 1" = N/A	SHEET: 23 / 25
		AGREEMENT	COMPLETED		
RPD	CKD	CID	CON.DR.	CONTRACT DRAWING NO.	RECORD PLAN NO.
		INDEX DETAIL	RECORD FILE	CC-20647	

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DISCOVER. CONNECTION. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
EROSION AND SEDIMENT CONTROL DETAILS

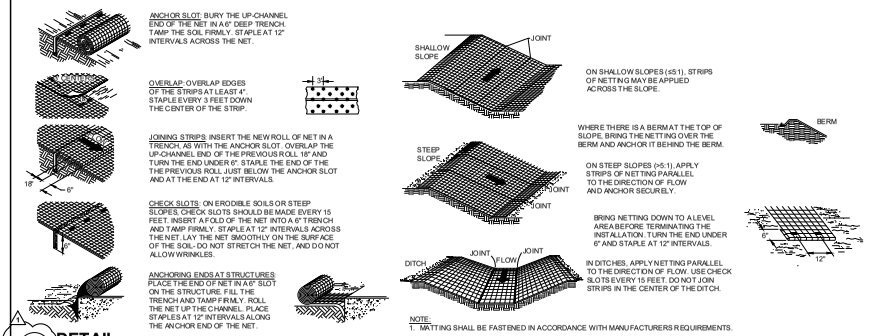
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C223
CD PROGRESS SET

PLOT VERSION: 2023
PRINT DATE: 5/30/2025 11:12 AM
FILE INFO: Autodesk Docs://2024/CMHA Aspire Housing 15220/ADM_CMHA Aspire Housing_ASDH_R23.rvt

File: M:\Projects\2022\2022-0431 - OH Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plotsheets\C223 EROSION AND SEDIMENT CONTROL DETAILS.dwg Saved Date: 30-May-2025 11:12 AM Plot Date: 30-05-25 PM Saved By: GMAHAN

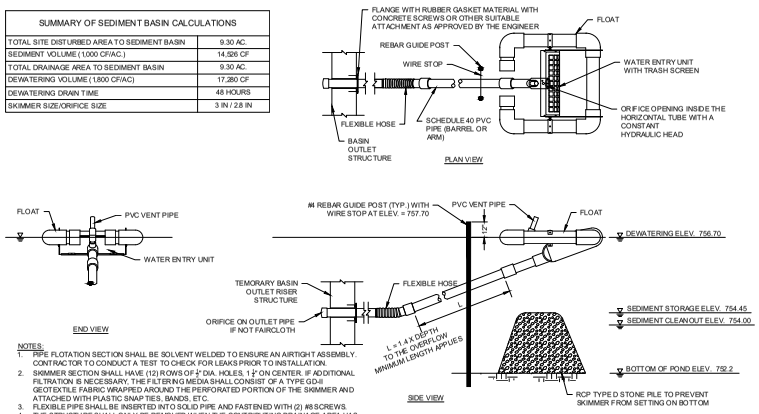
© 2024 MOODY NOLAN, INC.



NOTE:
1. MATTING SHALL BE FASTENED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

A DETAIL
INSTALLATION AND ORIENTATION OF NETTING AND MATTING — **N.T.S.**

SUMMARY OF SEDIMENT BASIN CALCULATIONS	
TOTAL SITE DISTURBED AREA TO SEDIMENT BASIN	9.30 AC.
SEDIMENT VOLUME (1,000 CF/AC.)	14,526 CF
TOTAL DRAINAGE AREA TO SEDIMENT BASIN	9.30 AC.
DEWATERING VOLUME (1,800 CF/AC)	17,280 CF
DEWATERING DRAIN TIME	48 HOURS
SKIMMER SIZE/ORIFICE SIZE	3 IN / 2.8 IN



NOTES:
1. PIPE FLOTATION SECTION SHALL BE SOLVENT WELDED TO ENSURE AN AIRTIGHT ASSEMBLY. CONTRACTOR TO CONDUCT A TEST TO CHECK FOR LEAKS PRIOR TO INSTALLATION.
2. SKIMMER SECTION SHALL HAVE (12) ROWS OF ½" DIA. HOLES, 1½" ON CENTER. IF ADDITIONAL FILTRATION IS NECESSARY, THE FILTERING MEDIA SHALL CONSIST OF A TYPE GDII GEOTEXTILE FABRIC WRAPPED AROUND THE PERFORATED PORTION OF THE SKIMMER AND ATTACHED WITH PLASTIC SNAP TIES, BANDS, ETC.
3. FLEXIBLE PIPE SHALL BE INSERTED INTO SOLID PIPE AND FASTENED WITH (2) #8 SCREWS.
4. THE STRUCTURE SHALL ONLY BE REMOVED WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
5. REMOVE SEDIMENT WHEN BASIN IS 40% FULL.
6. ACCEPTABLE MANUFACTURERS: FAIRCLOTH SKIMMER; MARLEE FLOAT SKIMMER, IAS SKIMMER, OR APPROVED EQUAL.

B DETAIL
TEMPORARY SKIMMER FOR SOUTH BASIN — **N.T.S.**

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Corporate Headquarters
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL: 614-487-1650 - FAX: 614-487-1651 - WEB: www.korda.com

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY			OWNER			
			CONTRACTOR			
			INSPECTOR			
			AGREEMENT	COMPLETED	SCALE: HORIZ 1" = N/A VERT 1" = N/A	SHEET: 24 / 25
			RPD / CKD / CID / CON.DR.		CONTRACT DRAWING NO. CC-20647	RECORD PLAN NO.
			INDEX DETAIL	RECORD FILE		

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEDICATED. DRIVEN. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE
EROSION AND SEDIMENT CONTROL DETAILS

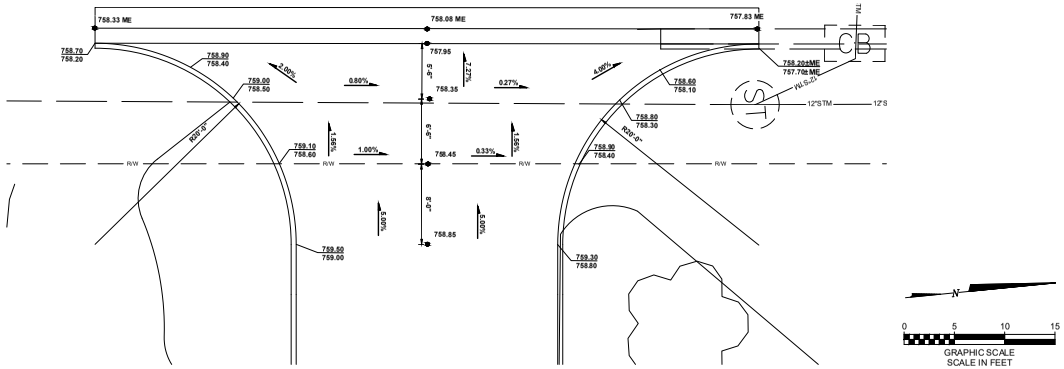
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C224
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

File: N:\Projects\2022\2022-0431 - 3349 Columbus Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plans\sheets\C224 EROSION AND SEDIMENT CONTROL DETAILS.dwg Saved Date: 30-May-2025 11:11 AM Plot Date: 12:02 PM Saved By: GMANN
XREF BIND: Autodesk Docs://2022-0431 CMHA Aspire Housing 20220429_CMHA Aspire Housing_ASDFH_R23.rvt
PRINT DATE: 5/30/2025 11:11 AM
RELEASE VERSION: 2023

© 2024 MOODY NOLAN, INC.



A DETAIL
SCHWARTZ RD DRIVEWAY DETAIL
1:5

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7909
TEL 614-487-1650 - FAX 614-487-0301 - WEB www.korda.com

DRIVE DETAILS

PROJECT TITLE
PRIVATE STORM SEWER AND STORMWATER FACILITIES FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CKD / CID / CON.DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 60'-0" VERT 1" = N/A
SHEET: 25 / 25
CONTRACT DRAWING NO. CC-20647
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT DEPARTMENT - COLUMBUS OHIO

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE
OVERALL STORM SEWER & GRADING PLAN

05/01/2025
23446
C225
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

File: N:\Projects\2022\2022-0431 - OH-Columbus-Metropolitan Housing Authority - Refugee Road\Civil\Drawings\Plans\sheets\C224 DRIVE DETAILS.dwg Saved Date: 29 May 2025 - 1:34 PM Plot Date: 12:43 PM Saved By: EMERSON
REVIT VERSION: 2023
PRINT DATE: 5/30/2025 3:34 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing /R22VD/R24_CMHA Aspire Housing_R22VD.rvt

#	DATE	CHANGE DESCRIPTION
1	5/2/2025	ADDENDUM #1

THE FALLS ON REFUGEE ROAD
3300 REFUGEE ROAD, COLUMBUS, OH 43222
FOR:
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM.0019747.5

DRAWING TITLE:
GRADING DETAIL

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C226
CD PROGRESS SET

KORDA
KORDA / NEMETH / ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: RM
CHECKED BY: RM
QUALIFIED BY: ELW
PROJECT NUMBER: 2022-0431

CODED NOTES:
1. PROVIDE TYPE C ROCK CHANNEL PROTECTION PER CMSC ITEM 601
2. PROVIDE AS-BUILT SURVEY OF STORMWATER CONTROL FACILITY; NOTE ON GRADING PLAN "SEE TYP. FACILITY AS-BUILT SURVEY"
3. SEDIMENT ACCUMULATION MEASUREMENT MONITOR POSTS PER DETAIL 01 (SDC-ACT-1)

KEY MAP
NTS

GRAPHIC SCALE
SCALE IN FEET
0 20 40 60

POOL
F/FE: 760.00

CLUB HOUSE
F/FE: 760.00

© 2024 MOODY NOLAN INC.

PRINT VERSION: 2023
PRINT DATE: 5/2/2025 11:10 AM
FILE INFO: Adobe Docs:2024 CMHA Alpine Housing:R23024 CMHA Alpine Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN INC.

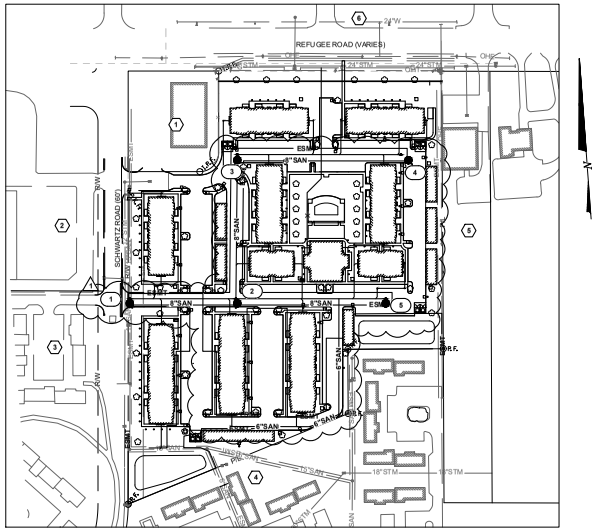
PRIVATE SANITARY SEWER FOR
CMHA REFUGEE ROAD HOUSING DEVELOPMENT
2024

ESTIMATE OF QUANTITIES

ITEM	QUANTITY	UNIT	DESCRIPTION
			SANITARY SEWER
604	5	EA	TYPE "C" MANHOLE, CLASS C (SA-01)
604	25	EA	CLEANOUT (AA-S161)
901	1125	LF	8" SANITARY SEWER WITH TYPE 1 BEDDING
915	25	EA	6"X6" DIA WYE FITTING
915	14	EA	8"X6" DIA WYE FITTING
914	14	EA	6" DIA PIPE RISERS
918	1697	LF	6" SANITARY SERVICE

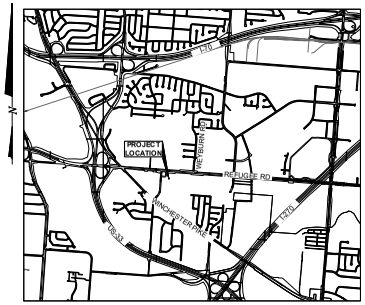
PROPERTY OWNERS

X	OWNER NAME	PARCEL	ADDRESS	ACREAGE
1	DG BUFFALO 1031 LLC	530-292866	3349 REFUGEE RD	0.82
2	THOMPSON JAMES T	530-182793	3333 REFUGEE RD	0.26
3	BERWICK GROVE ASSOCIATES L P	530-156558	2815 BERWICK SQ	10.08
4	BERWICK GROVE ASSOCIATES L P	530-109436	3240 TRADAN DR	7.05
5	REKHI HARBIR K	530-158207	3365 REFUGEE RD	2.01
6	FIRST CHURCH OF GOD INC	010-109831	3480 REFUGEE RD	92.13



INDEX MAP
1"=100'

STORM CC PLAN	CC-20647
SITE COMPLIANCE PLAN	XXXX-XXXXX
WATER SERVICE PLAN	WSPXXXX



LOCATION MAP
(NOT TO SCALE)

ARCHITECT
NAME MOODY NOLAN
ADDRESS 300 SPRUCE ST SUITE 300
CONTACT: ANUP JANARDHANAN
P: 614-461-4664
EMAIL: ANUPJ@MOODYNOLAN.COM

OWNER
NAME COLUMBUS METROPOLITAN HOUSING AUTHORITY
ADDRESS 880 E 11TH AVE
CONTACT: MIKE WAGNER
P: 614-421-6000
EMAIL: MWAGNER@CMHANET.COM

ENGINEER
NAME KORDA/NEMETH ENGINEERING
ADDRESS 1650 WATERMARK DR
CONTACT: ERIC WALSH
P: 614-487- 1650
EMAIL: ERIC.WALSH@KORDA.COM

SHEET INDEX

CC SHEET	SHEET	DESCRIPTION
1/9	301	TITLE SHEET
2/9	302	TRIBUTARY MAP
3/9	303	SANITARY PLAN
4/9	304	SANITARY PLAN
5/9	305	SANITARY PLAN
6/9	306	SANITARY PLAN
7/9	307	SANITARY PLAN
8/9	308	SANITARY PROFILES
9/9	309	SANITARY DETAILS

PRIVATE OWNERSHIP NOTE
THE OPERATION AND MAINTENANCE OF ALL SANITARY SEWERS, UNLESS OTHERWISE INDICATED, WHICH ARE PART OF THIS PLAN REMAIN THE RESPONSIBILITY OF THE PRIVATE PROPERTY OWNER. THE CITY OF COLUMBUS WILL ASSUME NO RESPONSIBILITY FOR THE OPERATION AND MAINTENANCE OF THE SYSTEM FOLLOWING CONSTRUCTION COMPLETION AND APPROVAL FOR USE.

NOTE TO PERMIT CLERK, CONTRACTOR, & CONSTRUCTION INSPECTOR
1. THE SERVICE FOR BUILDINGS _____ THRU _____ ARE TO BE INSTALLED AND INSPECTED IN CONJUNCTION WITH THE MAINLINE SEWER.
2. ALL APPROPRIATE PERMIT AND SYSTEM CAPACITY FEES FOR THESE BUILDINGS MUST BE PAID WITH THE STANDBY INSPECTION FEES PRIOR TO INSTALLATION.
3. NO SERVICES MAY BE CONNECTED TO ANY BUILDINGS UNTIL THE MAINLINE AND SERVICE LINE HAVE BEEN INSPECTED, TESTED, AND APPROVED FOR USE.
4. IN THE EVENT THE BUILDING IS CONNECTED TO THE SERVICE BEFORE THE MAINLINE IS APPROVED FOR USE, THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL COSTS TO DISCONNECT THE SERVICE AND HAVE ALL AFFECTED LINES THOROUGHLY CLEANED AND DISINFECTED BEFORE ANY FURTHER INSPECTION OR TESTING IS CONDUCTED FOR DIVISION OF CONSTRUCTION INSPECTION APPROVAL OF THE PROJECT.
5. ALL BUILDING SIGN-OFF CARDS WILL BE SIGNED IN THE PERMIT OFFICE AFTER THE MAINLINE SEWER HAS BEEN TESTED AND APPROVED FOR USE.

STANDARD DRAWINGS
THE STANDARD DRAWINGS LISTED ON THIS PLAN SHALL BE CONSIDERED A PART THEROF.

AA-S102	AA-S150
AA-S107	AA-S151
AA-S111	AA-S161
AA-S119	AA-S162
AA-S149	1441

PERMITS
WHEN EXCAVATING WITHIN COLUMBUS PUBLIC RIGHT OF WAY LIMITS, THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM CITY OF COLUMBUS, DEPARTMENT OF PUBLIC SERVICE - PERMIT OFFICE BETWEEN THE HOURS OF 7:30 AM AND 4:00 PM MONDAY THROUGH FRIDAY, PHONE (614) 645-7497; FAX: (614) 645-1876; EMAIL COLSPERMITS@COLUMBUS.GOV

SANITARY SEWER NOTE
CONNECTION TO SANITARY SEWER CANNOT BE MADE WITHOUT OBTAINING A PERMIT FROM SEWER PERMIT OFFICE 111 N FRONT STREET (614) 645-7460.

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7100
Ph. 614-487-1650 - 1650 watermark.com

ERIC J. WALSH E-80715 — REGISTERED ENGINEER — 9/12/2025 — DATE

APPROVED: APPROVALS SIGNATURES BELOW SIGNIFY ONLY CONFORMANCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS. SIGNATURES BELOW INDICATE APPROVAL OF SANITARY SEWER ONLY.

CITY ENGINEER/ADMINISTRATOR, DIVISION OF DESIGN AND CONSTRUCTION	DATE
ADMINISTRATOR, DIVISION OF POWER	DATE
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE	DATE
ADMINISTRATOR, DIVISION OF WATER	DATE

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

		OWNER	
		CONTRACTOR	
		INSPECTOR	
		AGREEMENT	COMPLETED
RPD	CKD	CID	CON. DR.
INDEX DETAIL		RECORD FILE	

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = VARIES VERT 1" = N/A
SHEET: 1 / 9
CONTRACT DRAWING NO. CC-XXXXX
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DIVERSITY. OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE
TITLE SHEET

PROGRESS DRAWING NOT FOR CONSTRUCTION

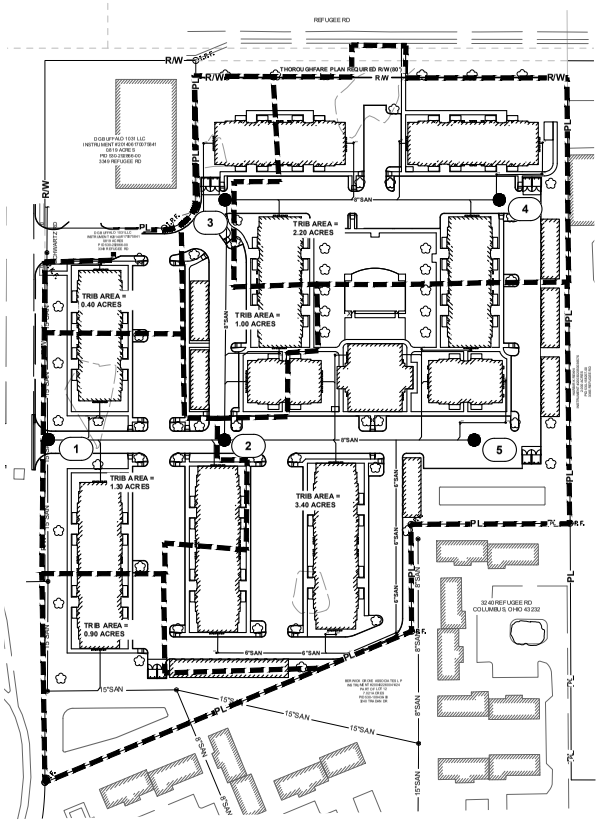
05/01/2025
23446
C301
CD PROGRESS SET

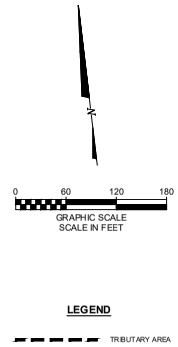
KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 12:11 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Eagles Housing /R23VersionCMHA Eagles Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
636 Wakerwell Drive, Suite 203 - Columbus, Ohio 43235-7106
TEL: 614-487-1900 - WEB:www.kordausa.com

TRIBUTARY MAP

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

	OWNER
	CONTRACTOR
	INSPECTOR
	AGREEMENT / COMPLETED
RPD / CKD / CID / CON. DR.	
INDEX DETAIL / RECORD FILE	

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 60'-0" VERT 1" = N/A
SHEET: 2 / 9
CONTRACT DRAWING NO.: CC-XXXXX
RECORD PLAN NO.:

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
TRIBUTARY MAP

05/01/2025
23446
C302
CD PROGRESS SET

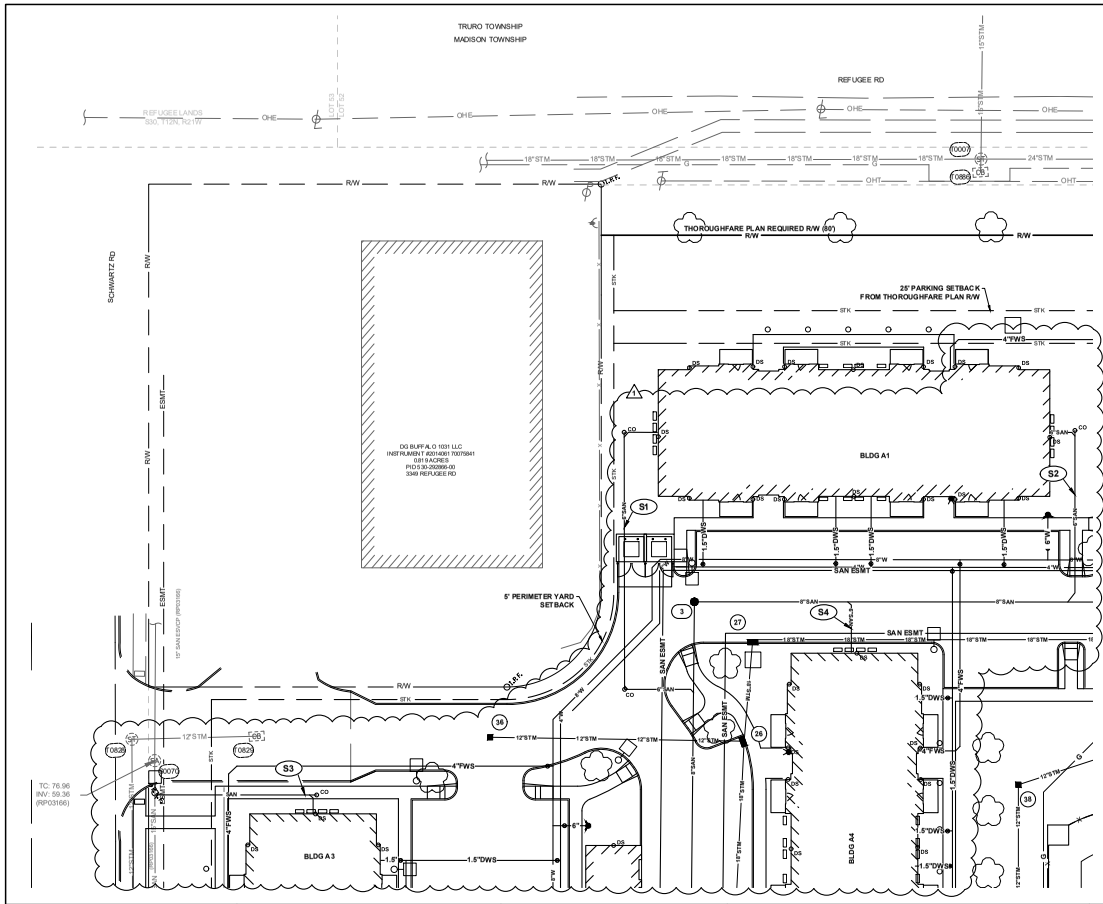
PROGRESS DRAWING NOT FOR CONSTRUCTION

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	EAM
DESIGNED BY:	EAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 12:14 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing - RESIDENCE - CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

- SAN — SANITARY SEWER
- MANHOLE PER STD. DWG. AA-S102
- (1) STRUCTURE NUMBER

GRAPHIC SCALE
SCALE IN FEET
0 20 40 60

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-20647 FOR STORM SEWER INFORMATION

SANITARY SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
3	759.24	698275.42	1853968.58		

SANITARY SEWER TABLE

Line	Length	Bearing	Size
2-3	286.75	N4°48'56.66"E	8" San.
3-4	325.19	S85°43'08.49"E	8" San.

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc. - Consulting Engineers
6100 Emerald Drive, Suite 200 - Columbus, Ohio 43228-7106
Tel. 614.487.1900 - FAX www.korda.com

SANITARY PLAN

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY	OWNER
	CONTRACTOR
	INSPECTOR
	AGREEMENT / COMPLETED
	RPD / CKD / CID / CON. DR.
	INDEX DETAIL / RECORD FILE

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 3 / 9
CONTRACT DRAWING NO.: CC-XXXXX
RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DIVERSITY. OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
SANITARY PLAN

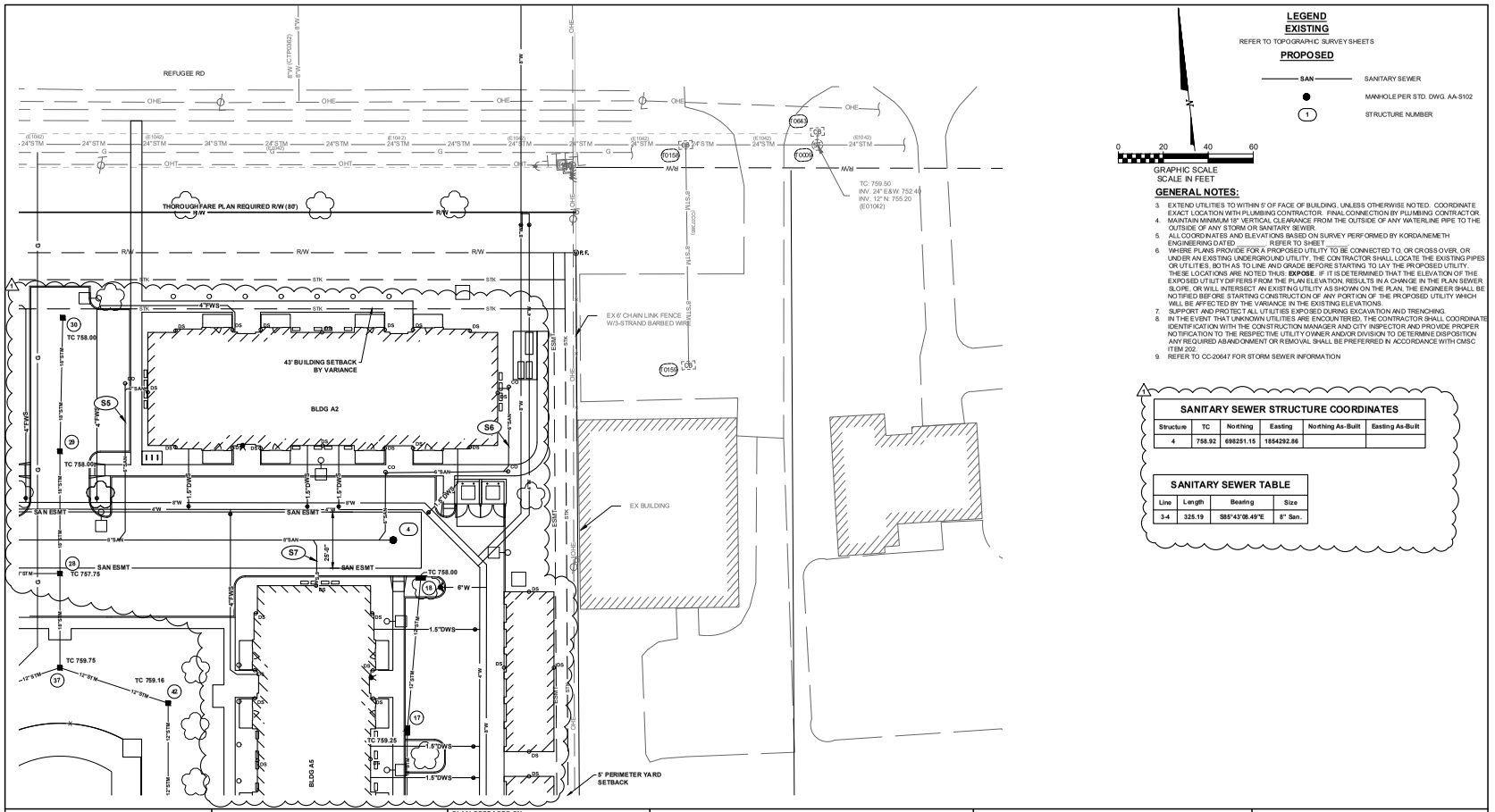
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C303
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER: 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:08 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing_RESIDENCE_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

- SAN — SANITARY SEWER
- ● — MANHOLE PER STD. DWG. AA-S102
- (1) — STRUCTURE NUMBER

GRAPHIC SCALE
SCALE IN FEET
0 20 40 60

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-20647 FOR STORM SEWER INFORMATION

SANITARY SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
4	758.92	698251.15	1854292.86		

SANITARY SEWER TABLE

Line	Length	Bearing	Size
3-4	325.19	S85°43'08.49"E	8" San.

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
6100 Westerville Drive, Suite 203 - Columbus, Ohio 43229-7106
TEL: 614.487.1900 - WEB:www.kordanemeth.com

SANITARY PLAN

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CK'D / CID / CON. DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 4 / 9
CONTRACT DRAWING NO.: CC-XXXXX
RECORD PLAN NO.:

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER: 2022-0431

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPING OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

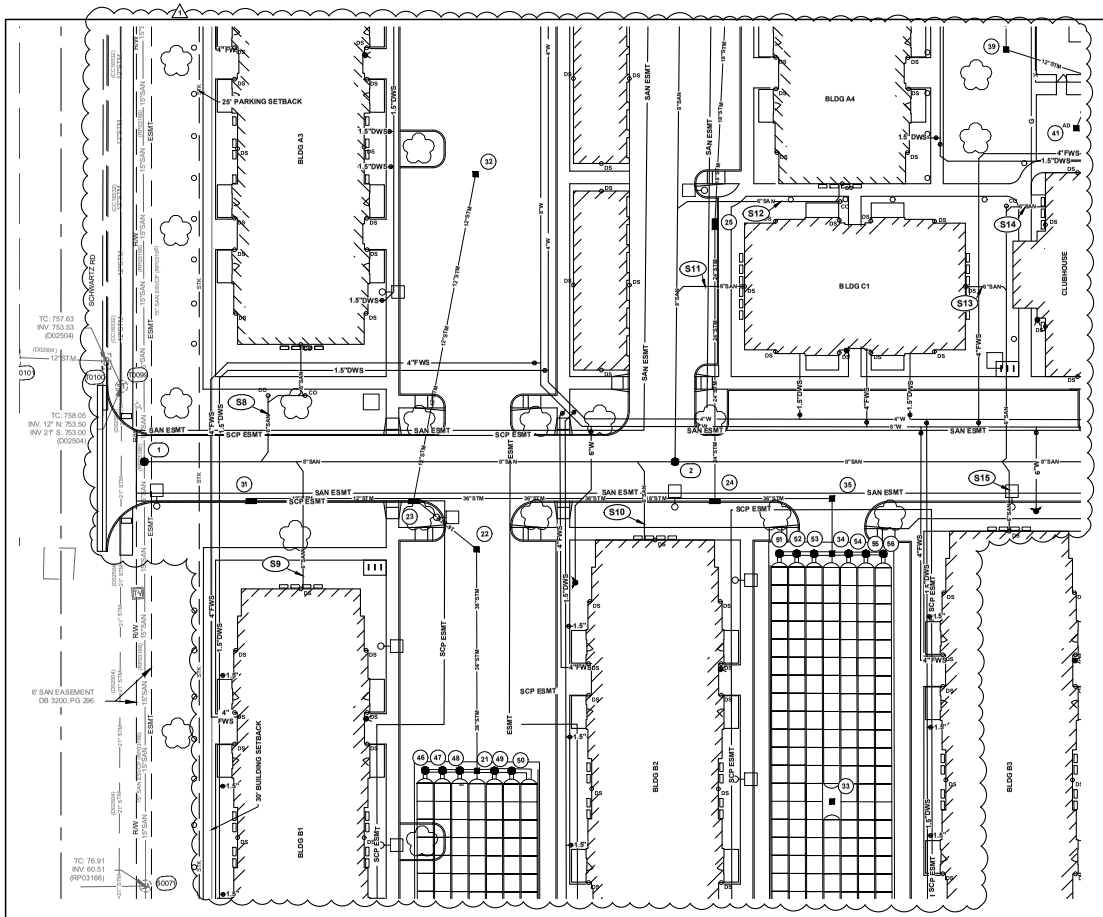
DRAWING TITLE:
SANITARY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C304
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 12:24 PM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing 25/24004_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

SAN — SANITARY SEWER

MANHOLE PER STD. DWG. AA-S102

1 — STRUCTURE NUMBER

GRAPHIC SCALE
SCALE IN FEET
0 20 40 60

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-20647 FOR STORM SEWER INFORMATION

SANITARY SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
1	758.97	698005.33	1853734.03		
2	758.90	697989.68	1853944.51		

SANITARY SEWER TABLE

Line	Length	Bearing	Size
1-2	211.06	S85°44'58.51"E	8" San.
2-5	298.09	S85°44'58.51"E	8" San.
3-3	286.75	N4°48'56.66"E	8" San.

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA — Korda/Nemeth Engineering, Inc. - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7105
TEL: 614.487.1650 - WEB:www.korda.com

SANITARY PLAN

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CK'D / CID / CON. DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 5 / 9

CONTRACT DRAWING NO.: CC-XXXXX

RECORD PLAN NO.:

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
SANITARY PLAN

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

C305

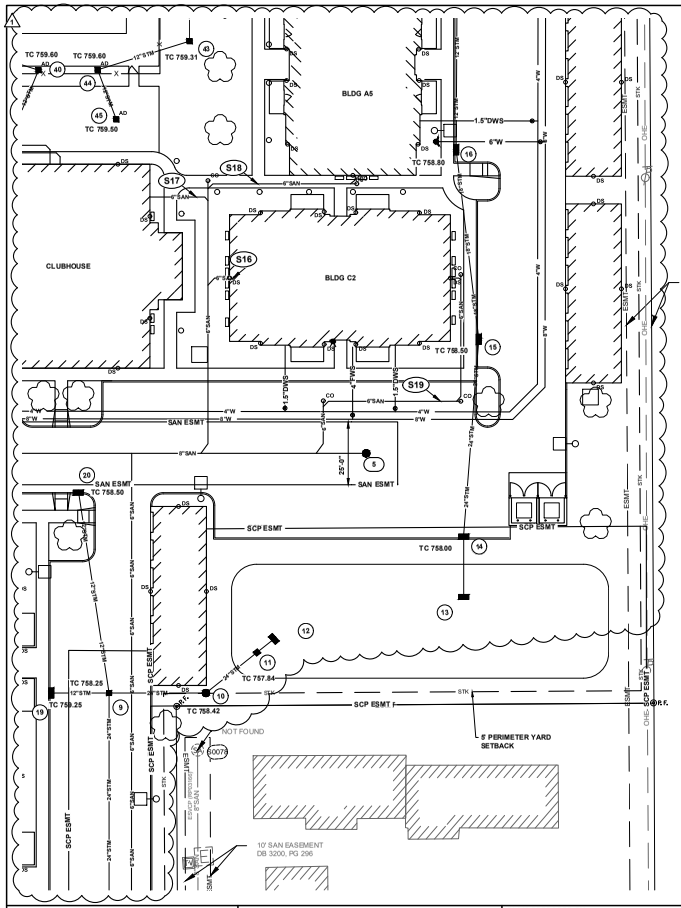
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER: 2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 11:10 AM
FILE INFO: Autodesk Docs://24504 CMHA Aspire Housing /E2504504_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

SAN — SANITARY SEWER

● MANHOLE PER STD. DWG. AA-S102

(1) STRUCTURE NUMBER

0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-20647 FOR STORM SEWER INFORMATION

SANITARY SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
5	759.24	697967.59	1854241.77		

SANITARY SEWER TABLE

Line	Length	Bearing	Size
2-5	298.09	S85°44'58.81"E	8" San.

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
539 Watervale Drive, Suite 203 - Columbus, Ohio 43230-7106
TEL: 614.487.1900 - WEB:www.kordausa.com

SANITARY PLAN

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CKD / CID / CON. DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A
SHEET: 6 / 9
CONTRACT DRAWING NO.: CC-XXXXX
RECORD PLAN NO.:

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
SANITARY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

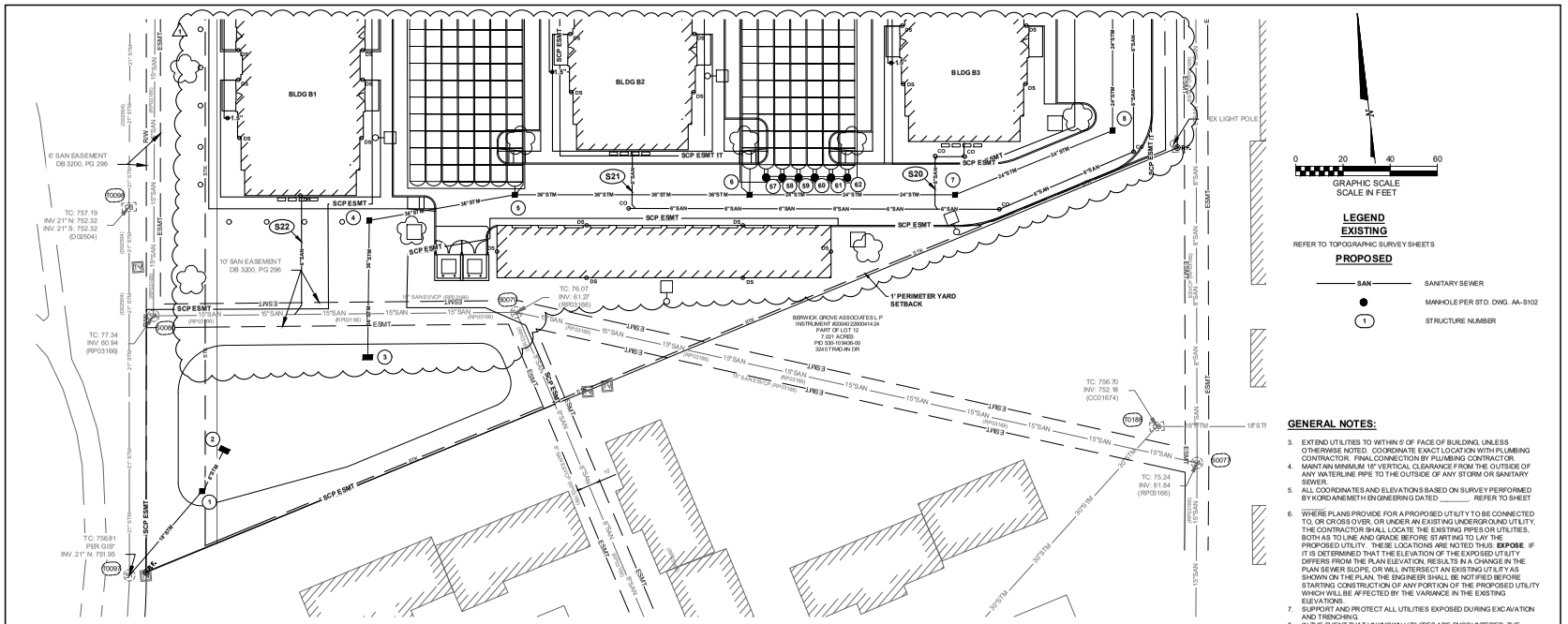
05/01/2025
23446
C306
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 12:43 PM
FILE INFO: Autodesk Docs://24044 CMHA Aspire Housing 25SCHOOL CMHA Aspire Housing_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO TOPOGRAPHIC SURVEY SHEETS

PROPOSED

- SAN — SANITARY SEWER
- MANHOLE PER STD. DWG. AA-S102
- (1) STRUCTURE NUMBER

GENERAL NOTES:

3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
5. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED _____. REFER TO SHEET _____.
6. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
7. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
8. IN THE EVENT THAT UNKNOWN UTILITIES ARE ENCOUNTERED, THE CONTRACTOR SHALL COORDINATE IDENTIFICATION WITH THE CONSTRUCTION MANAGER AND CITY INSPECTOR AND PROVIDE PROPER NOTIFICATION TO THE RESPECTIVE UTILITY OWNER AND/OR DIVISION TO DETERMINE DISPOSITION. ANY REQUIRED ABANDONMENT OR REMOVAL SHALL BE PREFERRED IN ACCORDANCE WITH CMSC ITEM 202.
9. REFER TO CC-20647 FOR STORM SEWER INFORMATION

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY: KORDA — Korda/Nemeth Engineering, Inc. - Consulting Engineers, 1650 Watermark Drive, Suite 200, Columbus, Ohio 43215-7116, TEL: 614.487.1650 - WEB: www.korda.com

SANITARY PLAN

PROJECT TITLE

PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER	
CONTRACTOR	
INSPECTOR	
AGREEMENT	COMPLETED
RPD / CK'D / CID / CON. DR.	
INDEX DETAIL	RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE

DIVISION USE ONLY

SCALE: HORIZ 1" = 20'-0" VERT 1" = N/A

SHEET: 7 / 9

CONTRACT DRAWING NO.: CC-XXXXX

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:

SANITARY PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C307

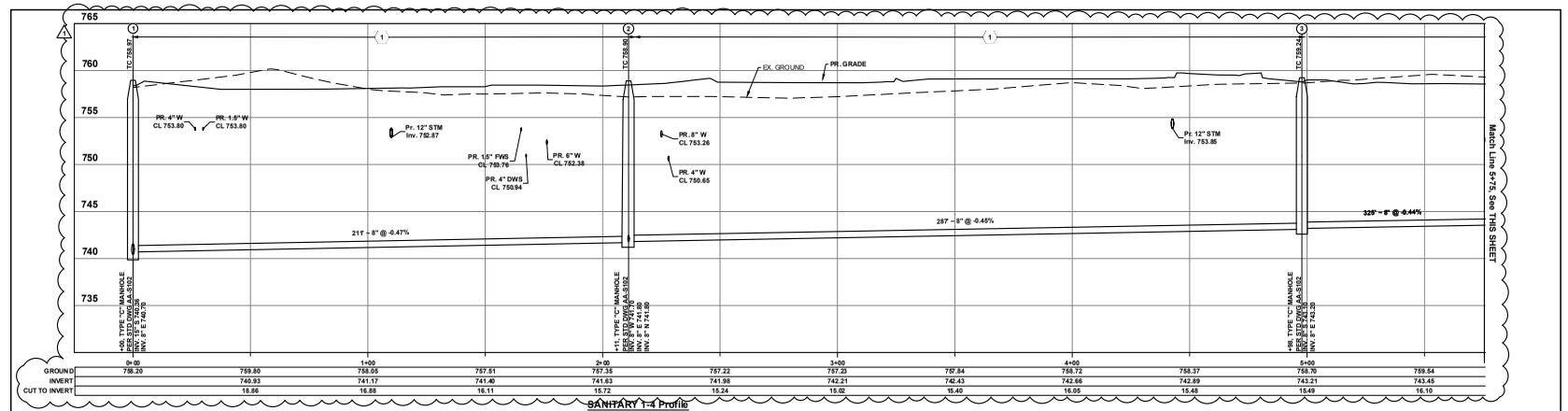
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	GAM
DESIGNED BY:	GAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

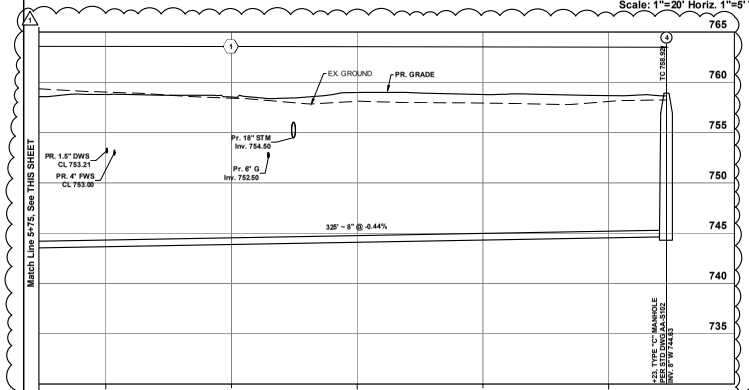
RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 12:41 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing PED/2022-0431 CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN INC.



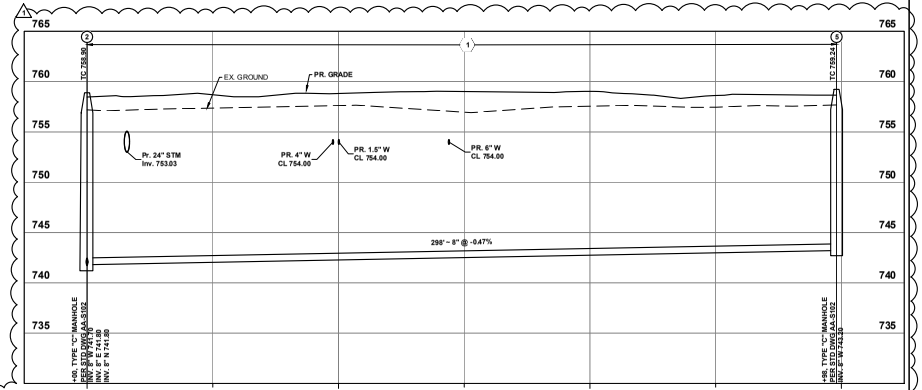
	0+00		1+00		2+00		3+00		4+00		5+00	
GROUND	758.20	759.80	758.05	757.51	757.35	757.22	757.23	757.84	758.72	758.37	758.70	759.54
INVERT		740.93	741.17	741.40	741.63	741.98	742.21	742.43	742.66	742.89	743.21	743.45
CUT TO INVERT		18.86	16.88	16.11	15.72	15.24	15.02	15.40	16.05	15.48	15.49	16.10

SANITARY 1-4 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



	6+00		7+00		8+00
GROUND	759.02	758.42	758.11	757.93	758.09
INVERT	743.68	743.92	744.15	744.39	744.62
CUT TO INVERT	15.34	14.50	13.96	13.54	13.47

SANITARY 1-4 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



	0+00		1+00		2+00		3+00
GROUND	758.47	758.69	759.02	759.82	759.04	758.62	759.24
INVERT	741.80	742.03	742.27	742.50	742.74	742.97	743.19
CUT TO INVERT	-15.39	-15.34	-15.35	-14.45	-14.81	-14.48	-16.05

SAN 2-5 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

CODED NOTES:
1. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, OH 43215-7013
TEL: 614.461.1616 - WEB www.korda.com

SANITARY PROFILES

PROJECT TITLE
PRIVATE SANITARY PLAN FOR CMHA REFUGEE ROAD 3349 REFUGEE ROAD

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

DIVISION USE ONLY								
							OWNER	
							CONTRACTOR	
							INSPECTOR	
							AGREEMENT	COMPLETED
					RPD	CK'D	CID	CON. DR.
					INDEX DETAIL		RECORD FILE	

SCALE: HORIZ 1" = 5'-0" VERT 1" = 20'-0"
SHEET: 8 / 9
CONTRACT DRAWING NO.: CC-XXXXX
RECORD PLAN NO.:

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
SANITARY PLAN

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
C308
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	BAM
DESIGNED BY:	BAM
CHECKED BY:	EJW
PROJECT NUMBER:	2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025, 12:28 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing - RESIDENCE, CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.

PROPOSED BUILDING SANITARY SERVICES SCHEDULE

SHEET	XX	MH		MH	SERVICE CONNECTION	RISER LENGTH	SERVICE DIAMETER	SERVICE LENGTH	ELEV. AT END OF SERVICE	ELEV. AT TOP OF RISER ABOVE MAIN
2	S1	2	-	3	BLDG A1	7.5	6"	143'	755.00	750.45
2	S2	3	-	4	BLDG A1	6.5	6"	77'	755.00	750.44
2	S3	00 70	-	1	BLDG A3	14.1	6"	70'	755.00	753.54
2	S4	3	-	4	BLDG A4	8.5	6"	19'	752.40	751.99
3	S5	3	-	4	BLDG A2	6.3	6"	77'	755.00	750.45
3	S6	3	-	4	BLDG A2	5.8	6"	126'	752.00	750.59
3	S7	3	-	4	BLDG A5	10.0	6"	19'	755.00	754.60
4	S8	1	-	2	BLDG A3	12.9	6"	60'	755.00	753.75
4	S9	1	-	2	BLDG B1	10.2	6"	50'	752.20	751.17
4	S10	1	-	2	BLDG B2	9.4	6"	30'	751.70	751.07
4	S11	2	-	3	BLDG C1	9.1	6"	26'	751.80	751.26
4	S12	2	-	3	BLDG A4	8.3	6"	71'	755.00	750.60
4	S13	2	-	5	BLDG C1*1	1.1	6"	10'	755.00	754.00
4	S14	2	-	5	CLUBHOUSE*4	8.4	6"	123'	755.00	750.74
4	S15	2	-	5	BLDG B3	12.0	6"	29'	755.00	754.44
5	S16	2	-	5	BLDG C2*2	2.1	6"	7'	755.00	754.85
5	S17	2	-	5	CLUBHOUSE*3	1.0	6"	24'	755.00	754.50
5	S18	2	-	5	BLDG A6*4	8.1	6"	170'	755.00	751.00
5	S19	2	-	5	BLDG C2	7.5	6"	123'	755.00	750.69
6	S20	2	-	5	BLDG B3*3	0.0	6"	40'	755.00	750.50
6	S21	2	-	5	BLDG B2*3	1.1	6"	472'	757.00	743.86
6	S22	S0080	-	S0079	BLDG B1	10.7	6"	50'	755.00	753.96

*SANITARY SERVICE SHARES A COMMON WYE CONNECTION

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

PLAN PREPARED BY:
KORDA
Korda/Nemeth Engineering, Inc. - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7116
TEL: 614.487.1650 - WEB:www.kordausa.com

SANITARY DETAILS

PROJECT TITLE
PRIVATE SANITARY PLAN FOR
CMHA REFUGEE ROAD
3349 REFUGEE ROAD

DIVISION USE ONLY

OWNER
CONTRACTOR
INSPECTOR
AGREEMENT | COMPLETED
RPD | CK'D | CID | CON. DR.
INDEX DETAIL | RECORD FILE

CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF SEWERAGE AND DRAINAGE
DIVISION USE ONLY

SCALE: HORIZ 1" = N/A
VERT 1" = N/A

SHEET: 9 / 9

CONTRACT DRAWING NO.
CC-XXXXX

RECORD PLAN NO.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEMONSTRATE. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
SANITARY DETAILS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

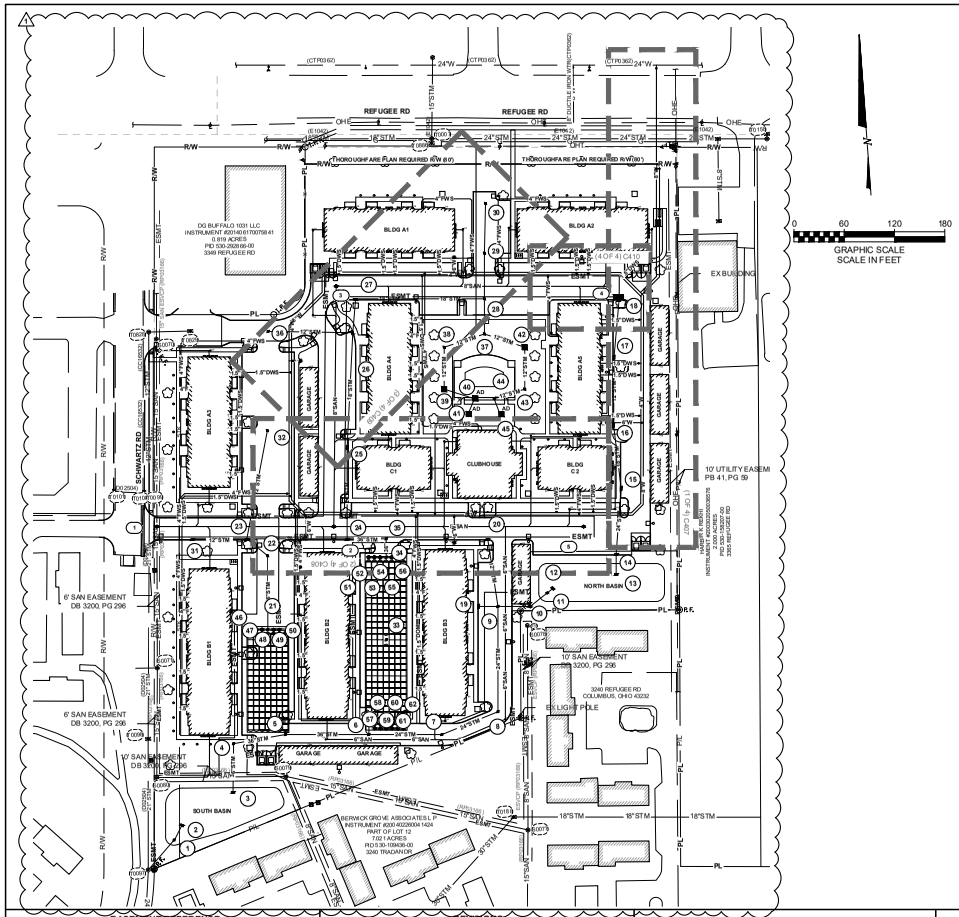
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

05/01/2025
23446
C309
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 12:34 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing_R23/2022-0431 CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



0 60 120 180
GRAPHIC SCALE
SCALE IN FEET

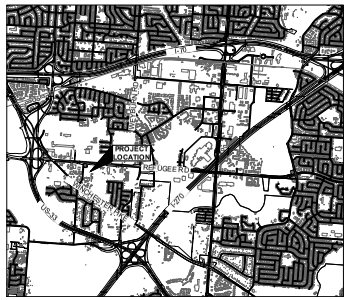
LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

- W — WATER LINE
- F — FIRE PROTECTION SERVICE LINE
- SAN — SANITARY SEWER
- G — GAS LINE
- STM — STORM SEWER



LOCATION MAP
(NOT TO SCALE)

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
2. EXTEND UTILITIES TO WITHIN FIVE (5) FEET OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR.
3. REFER TO SHEETS C201-C224 FOR STORM SEWER INFORMATION.
4. MAINTAIN MINIMUM OF FOOT ZERO INCH (4'-0") COVER OVER ALL WATERLINES. REFER TO SHEET C401 - C410 FOR PROFILE.
5. MAINTAIN MINIMUM EIGHTEEN (18) INCH VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
6. PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE.
7. REFER TO CITY OF COLUMBUS STANDARD DRAWINGS FOR TYPICAL FIRE HYDRANT INSTALLATION DETAILS.
8. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
9. CONNECTION TO EXISTING WATER MAINS SHALL NOT BE PERFORMED UNTIL THE NEW LINES HAVE BEEN SANITIZED AND ALL TESTS HAVE BEEN COMPLETED AS SPECIFIED BY THE CITY OF COLUMBUS AND THESE CONTRACT DOCUMENTS.
10. THE CONTRACTOR SHALL CALL, TOLL FREE, THE OHIO UTILITIES PROTECTION SERVICE (1-800-362-2764) SEVENTY-TWO (72) HOURS PRIOR TO CONSTRUCTION AND SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO WORK IN VICINITY OF THEIR UNDERGROUND LINES.
11. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: **EXPOSE**. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
12. ALL AREAS DISTURBED BY UTILITY CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER. CONTRACTOR SHALL SAW CUT PAVEMENT AT LIMITS OF REMOVAL, WITH NEAT STRAIGHT LINES TO A FULL DEPTH. REMOVE CONCRETE SIDEWALK AND CURB AND GUTTER AT NEAREST JOINT. PROVIDE JOINTS BETWEEN NEW AND EXISTING ASPHALT.
13. PERFORM ALL UTILITY WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CITY OF COLUMBUS STANDARDS. IN CASE OF A DISCREPANCY BETWEEN THESE CONTRACT DOCUMENTS AND CITY OF COLUMBUS STANDARDS, THE CITY OF COLUMBUS STANDARDS SHALL GOVERN.
14. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
15. ANY REQUIRED WATERLINE SHUT-DOWNS SHALL BE COORDINATED WITH THE OWNER AND/OR THE CITY.
16. SANITARY SEWER NOTE: CONNECTION TO SANITARY SEWER CANNOT BE MADE WITH OUT OBTAINING A PERMIT FROM SEWER PERMIT OFFICE 111 N. FRONT STREET (614) 645-7400.

OHIO Utilities Protection SERVICE
Click, Call or Tap Before You Dig

EASEMENT REFERENCE

CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS

NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc – Consulting Engineers
1650 Watermark Drive, Suite 200 – Columbus, Ohio 43215-7510
TEL 614-487-1650 FAX 614-487-1651 WEB www.korda.com

PE SIGNATURE: DATE:

CITY OF COLUMBUS DIVISION OF WATER APPROVAL

SIGNATURE BELOW SIGNIFIES CONCURRENCE WITH THE GENERAL PURPOSE AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLANS.

DATE:

CMHA REFUGEE ROAD
3340 REFUGEE ROAD

WSPXXXX

SHEET: 1 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATING OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
OVERALL UTILITY PLAN

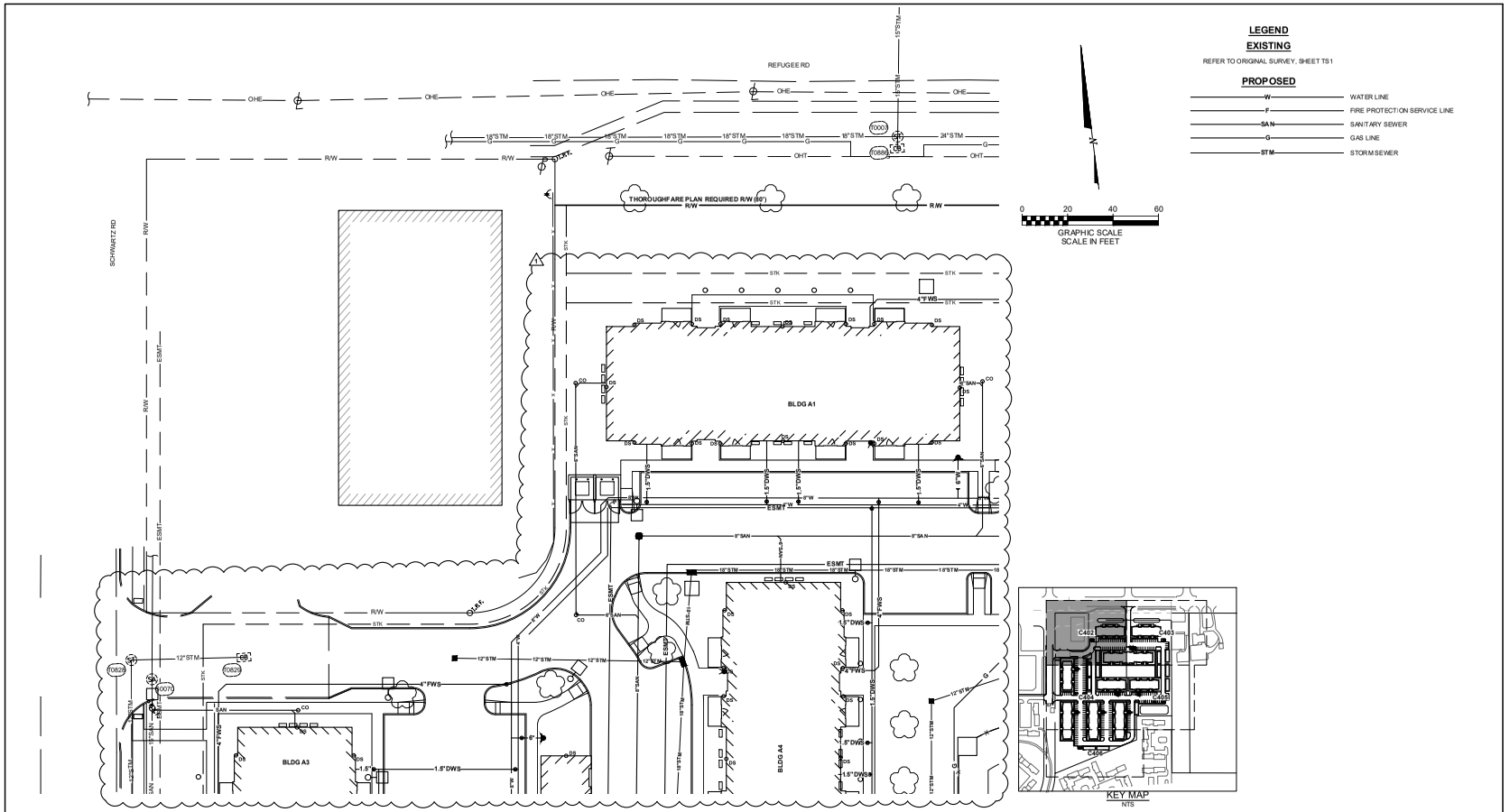
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C401
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:11 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing RESIDENCE CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

- W — WATER LINE
- F — FIRE PROTECTION SERVICE LINE
- SAN — SANITARY SEWER
- G — GAS LINE
- STM — STORM SEWER

KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD
3340 REFUGEE ROAD

WSPXXXX

SHEET: 2 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

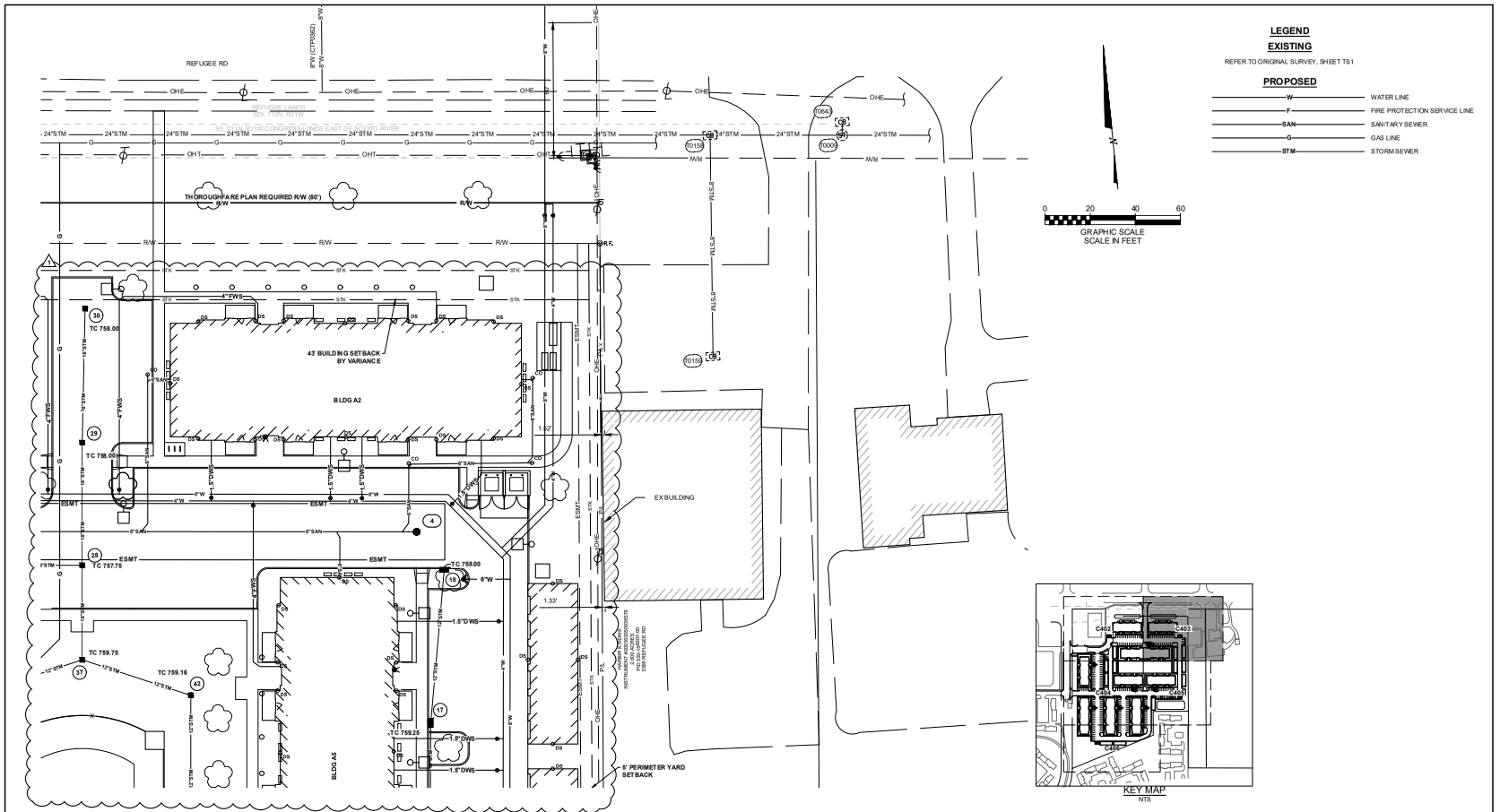
23446

C402

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 11:12 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing_RESIDENCE_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

W	WATER LINE
F	FIRE PROTECTION SERVICE LINE
SAN	SANITARY SEWER
G	GAS LINE
STM	STORM SEWER

KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD
3340 REFUGEE ROAD

WSPXXXX

SHEET: 3 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

C403

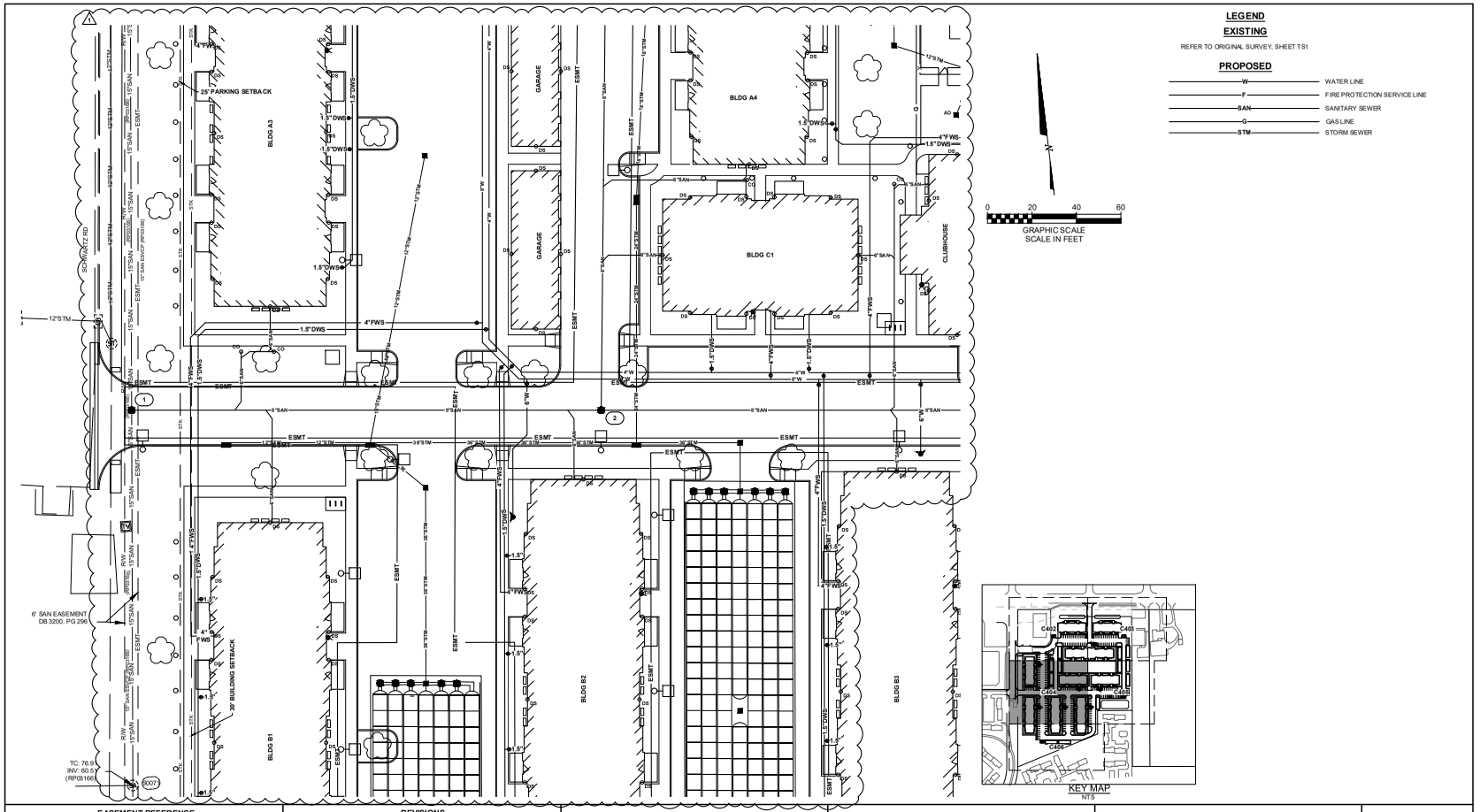
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 11:28 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing_RESIDENCE_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD
334O REFUGEE ROAD

WSPXXXX

SHEET: 4 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

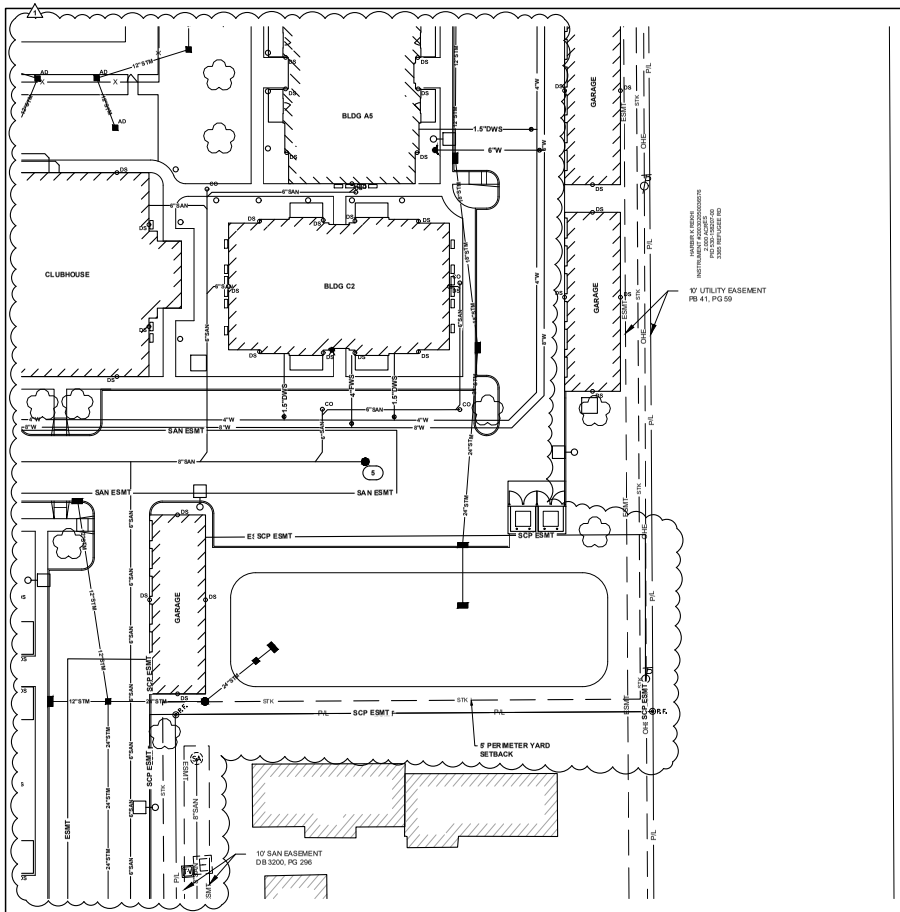
05/01/2025
23446
C404
CD PROGRESS SET

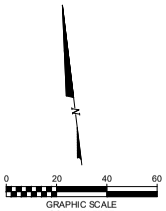
KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER: 2022-0431

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 11:13 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 25220429A_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





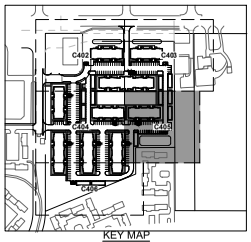
LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

W	WATER LINE
F	FIRE PROTECTION SERVICE LINE
SAN	SANITARY SEWER
G	GAS LINE
STM	STORM SEWER



KEY MAP
NTS

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN

CMHA REFUGEE ROAD
334O REFUGEE ROAD

WSPXXXX

SHEET: 5 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

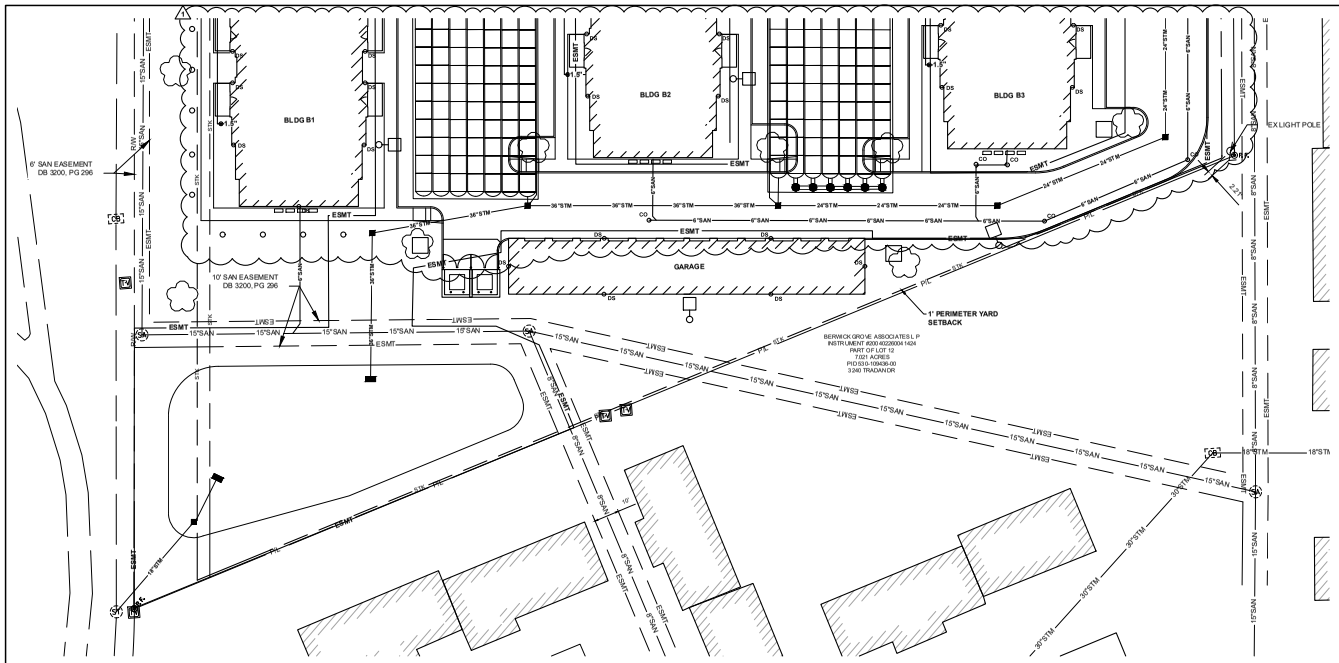
05/01/2025
23446
C405
CD PROGRESS SET

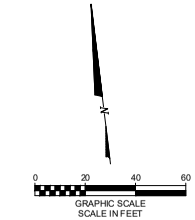
KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:32 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing - RESIDENCE, CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





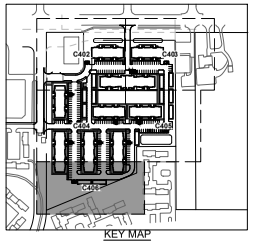
LEGEND

EXISTING

REFER TO ORIGINAL SURVEY, SHEET TS1

PROPOSED

- W — WATER LINE
- F — FIRE PROTECTION SERVICE LINE
- SAN — SANITARY SEWER
- STM — STORM SEWER



KEY MAP
NTS

EASEMENT REFERENCE				REVISIONS					
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE	WATER SERVICE PLAN	CMHA REFUGEE ROAD 334O REFUGEE ROAD	WSPXXXX SHEET: 6 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

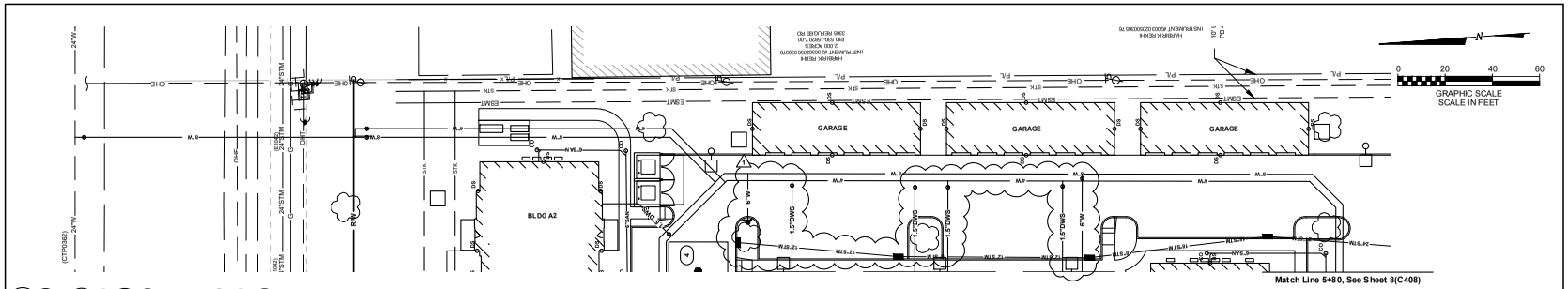
DRAWING TITLE:
WATER SERVICE PLAN

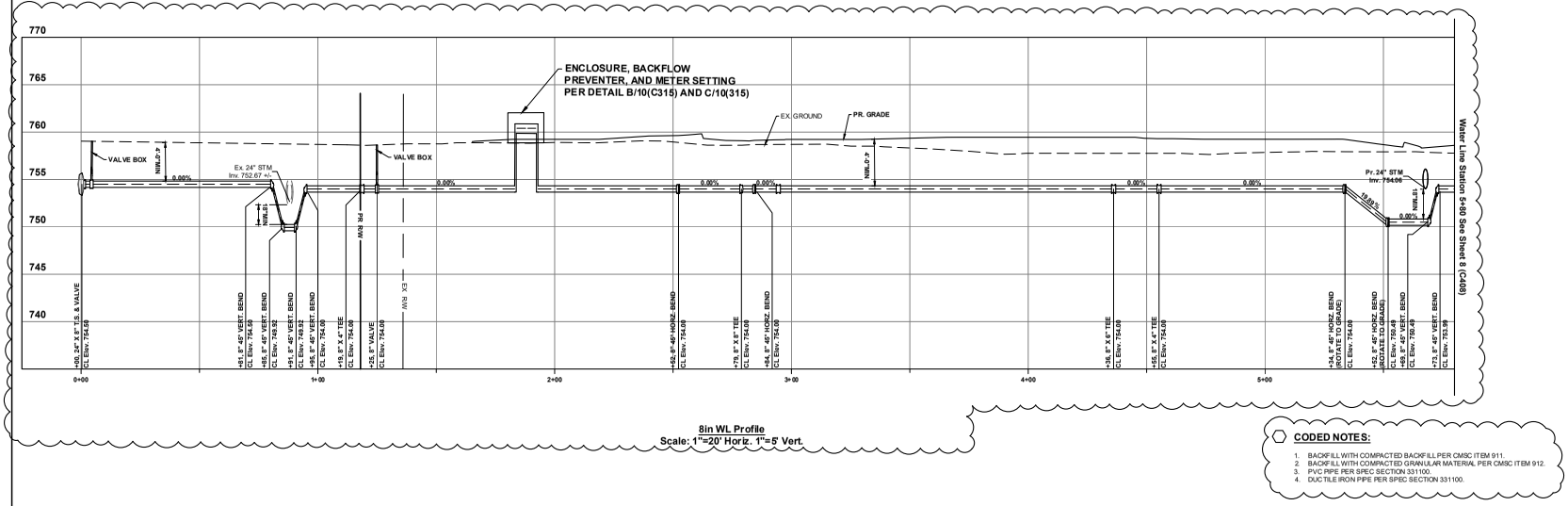
05/01/2025
23446
C406
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:34 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing /R23/24004_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.





8in WL Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911.
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912.
3. PVC PIPE PER SPEC SECTION 331100.
4. DUCTILE IRON PIPE PER SPEC SECTION 331100.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN & PROFILE

CMHA REFUGEE ROAD
334O REFUGEE ROAD

WSPXXXX

SHEET: 7 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM#01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN & PROFILE

PROGRESS DRAWING NOT FOR CONSTRUCTION

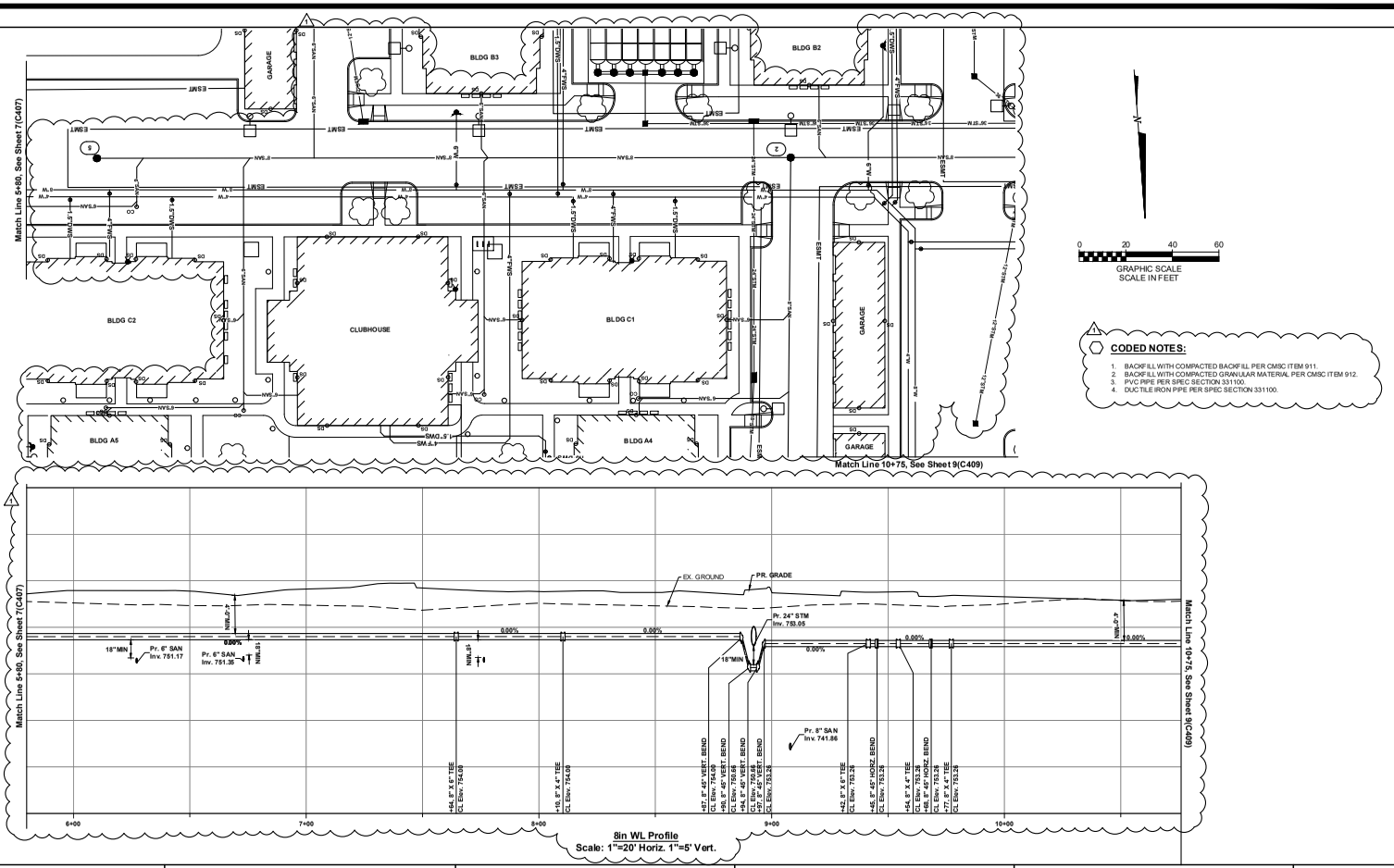
05/01/2025
23446
C407
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: RJW
PROJECT NUMBER: 2022-0431

RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:39 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 1ES/2022-0431_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



8in WL Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

WATER SERVICE PLAN & PROFILE

CMHA REFUGEE ROAD
334O REFUGEE ROAD

WSPXXXX

SHEET: 8 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATING OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN & PROFILE

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

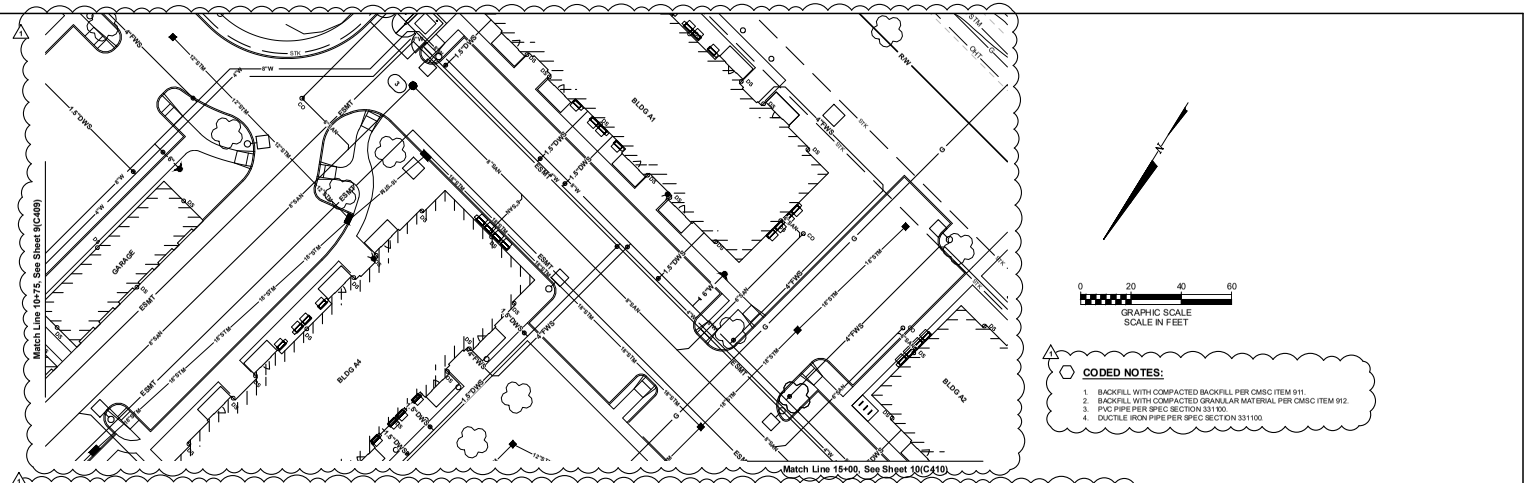
23446

C408

CD PROGRESS SET

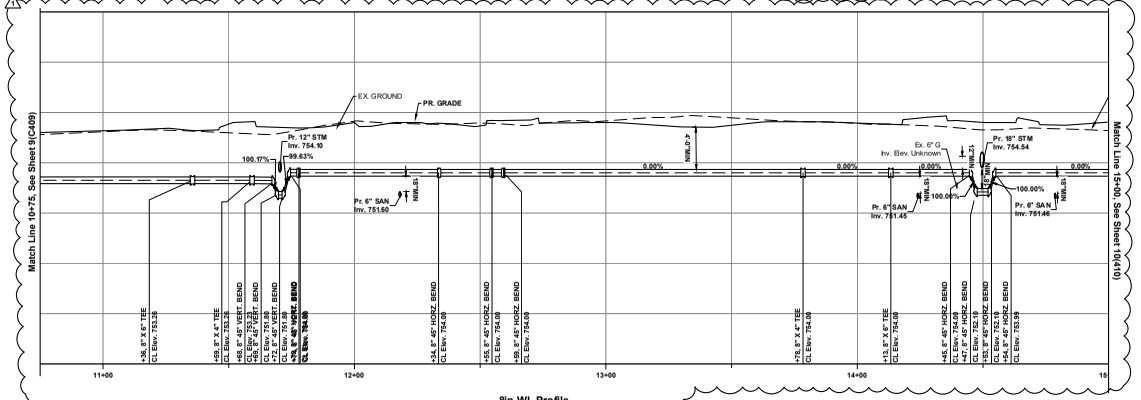
RELEASE VERSION: 2023
PRINT DATE: 5/30/2025 11:43 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing 15220424_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL PER CMSC ITEM 911.
2. BACKFILL WITH COMPACTED GRANULAR MATERIAL PER CMSC ITEM 912.
3. PVC PIPE PER SPEC SECTION 331100.
4. DUCTILE IRON PIPE PER SPEC SECTION 331100.



8in WL Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

EASEMENT REFERENCE			
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR

REVISIONS		
NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7418
TEL 614-487-1650 - FAX 614-487-1651 - WEB www.korda.com

WATER SERVICE PLAN & PROFILE

CMHA REFUGEE ROAD
334O REFUGEE ROAD

WSPXXXX

SHEET: 9 /12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
WATER SERVICE PLAN & PROFILE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C409
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BJW
PROJECT NUMBER: 2022-0431

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 11:19 AM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing RESIDENCE, CMHA Aspire Housing_ARCH_R23.rvt

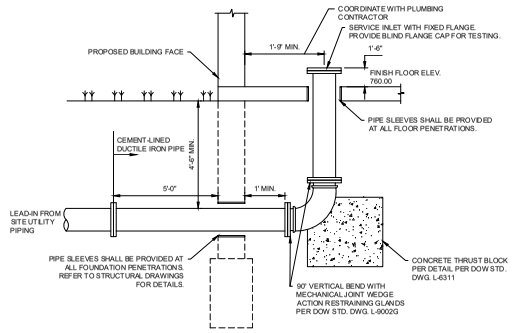
© 2024 MOODY NOLAN, INC.

CITY OF COLUMBUS WATER SERVICE PLAN NOTES:

1. NO WATER SERVICE CONNECTION PERMITS SHALL BE ISSUED OR CONNECTIONS MADE TO ANY WATER TAPS UNTIL THE PUBLIC WATER MAIN HAS BEEN DISINFECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
2. NO WATER SERVICE CONSTRUCTION, BEFORE OR AFTER THE WATER METER(S), SHALL BEGIN PRIOR TO FEE PAYMENT TO THE UTILITY PERMITS OFFICE AT 111 N. FRONT STREET (614-645-7330).
3. THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMSC), 2018 EDITION AND ALL REVISIONS, INCLUDING SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT, UNLESS OTHERWISE NOTED.
4. ALL WATER LINE MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CURRENT APPROVED MATERIALS LIST AND RULES AND REGULATIONS OF THE CITY OF COLUMBUS, DIVISION OF WATER, UNLESS OTHERWISE SHOWN ON THE PLANS OR APPROVED BY THE CITY OF COLUMBUS, DIVISION OF WATER. ONLY PRODUCTS LISTED ON THE CURRENT APPROVED MATERIALS LIST WILL BE PERMITTED TO BE INSTALLED.
5. IT SHALL BE UNLAWFUL FOR ANY PERSON TO PERFORM ANY WORK ON THE PUBLIC WATER DISTRIBUTION SYSTEM WITHOUT FIRST SECURING A LICENSE TO ENGAGE IN SUCH WORK, AS INDICATED IN COLUMBUS CITY CODE SECTIONS 1103.02 AND 1105.06. THIS WORK INCLUDES ANY ATTACHMENTS, ADDITIONS TO OR ALTERATIONS IN ANY CITY SERVICE PIPE OR APPURTENANCES (INCLUDING WATER SERVICE LINES AND WATER SERVICE TAPS). THIS REQUIREMENT MAY BE MET BY UTILIZATION OF A SUBCONTRACTOR WHO POSSESSES A CITY OF COLUMBUS WATER CONTRACTOR LICENSE OR A COMBINED WATER/SEWER CONTRACTOR LICENSE TO PERFORM THIS WORK. UTILIZATION OF A SUBCONTRACTOR MUST MEET THE LICENSING REQUIREMENTS OF CITY OF COLUMBUS BUILDING CODE SECTIONS 4114.119 AND 4114.529.
6. FOR ANY EMERGENCIES THAT OCCUR AFTER NORMAL WORKING HOURS INVOLVING THE WATER DISTRIBUTION SYSTEM, PLEASE CONTACT THE DIVISION OF WATER DISTRIBUTION MAINTENANCE OFFICE AT 614-645-7788.
7. SITE UTILITY CONTRACTOR SHALL OBTAIN A RIGHT OF WAY PERMIT PRIOR TO THE START OF ANY WATER SERVICE LINE AND/OR WATER SERVICE TAP INSTALLATION OR ANY PLACEMENT OF WATER SERVICE MATERIALS INTO THE PUBLIC RIGHT OF WAY.
8. EXISTING RIGHT OF WAY LINE(S), PROPOSED RIGHT OF WAY LINE(S) AND/OR WATER MAIN EASEMENT LINE(S) SHALL BE STAKED AT 10 FOOT INCREMENTS BY A STATE OF OHIO LICENSED SURVEYOR WHEN THE WATER SERVICE TAP(S) AND/OR WATER SERVICE(S) ARE INSTALLED AND INSPECTED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
9. SITE UTILITY CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF COLUMBUS–CITY FORESTER AT 614-645-6640 FOR ANY WORK DONE WITHIN 10 FEET OF A TREE IN THE RIGHT OF WAY.
10. THERE SHALL BE A 10 FOOT MINIMUM HORIZONTAL AND 18 INCH VERTICAL SEPARATION BETWEEN WATER SERVICE TAP(S), WATER SERVICE LINE(S), PRIVATE WATER SYSTEMS AND ANY SANITARY AND/OR STORM SEWER SYSTEMS, UNLESS OTHERWISE APPROVED BY THE CITY OF COLUMBUS, DIVISION OF WATER.
11. ALL INSPECTIONS REQUIRE A 24 HOUR ADVANCE NOTICE.
12. ALL PUBLIC FIRE HYDRANTS, WHETHER NEW OR RELOCATED, SHALL BE INSPECTED AND APPROVED BY THE CITY OF COLUMBUS, DIVISION OF FIRE PRIOR TO BEING PUT INTO SERVICE. THE CONTRACTOR SHALL CONTACT THE DIVISION OF FIRE AT 645-7642 EXT. 75658 TO SCHEDULE THE INSPECTION OF THE NEW OR RELOCATED FIRE HYDRANTS. THE CITY WILL PROVIDE THE CONTRACTOR "OUT OF SERVICE" RINGS THAT SHALL BE PLACED ON ALL NEW OR RELOCATED FIRE HYDRANTS TO CLEARLY IDENTIFY THEM AS INACTIVE. AFTER WRITTEN NOTIFICATION OF ACCEPTANCE HAS BEEN RECEIVED, THE CONTRACTOR SHALL REMOVE THE "OUT OF SERVICE" RINGS FROM THE FIRE HYDRANTS. ALL "OUT OF SERVICE" RINGS SHALL BE RETURNED TO THE CITY.
13. ALL PUBLIC FIRE HYDRANTS, WHETHER NEW OR RELOCATED, SHALL BE INSPECTED AND APPROVED BY THE (APPLICABLE CONTRACT COMMUNITY FIRE AGENCY) PRIOR TO BEING PUT INTO SERVICE. THE CONTRACTOR SHALL CONTACT THE (APPLICABLE CONTRACT COMMUNITY FIRE AGENCY) AT 614-645-7330 TO SCHEDULE THE INSPECTION OF THE NEW OR RELOCATED FIRE HYDRANTS.
14. SITE UTILITY CONTRACTOR SHALL FLUSH ALL WATER SERVICES PRIOR TO ANY WATER METER INSTALLATION. THE CITY OF COLUMBUS IS NOT RESPONSIBLE FOR ANY CITY WATER METER DAMAGE CAUSED BY NON-FLUSHING.
15. IF A TAP IS BEING REUSED AND DISCOVERED TO BE LEAD, THE TAP SHALL BE ABANDONED AT THE WATER MAIN PER CMSC ITEM 808 AND A NEW TAP SHALL BE INSTALLED.
16. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION OF ALL WATER SERVICE TAP ABANDONMENTS COMPLETED AT THE WATER MAIN PER CMSC ITEM 808.
17. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION OF 2" AND SMALLER WATER SERVICE TAPS FROM THE WATER MAIN THRU THE CURB STOP AND WATER SERVICES FROM THE CURB STOP THRU THE WATER METER SETTING.
18. ALL 2" AND SMALLER WATER SERVICE PIPE SHALL BE TYPE K SOFT TEMPER COPPER ONLY FROM THE CITY WATER MAIN THRU THE CURB STOP PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWING L-9001 AND CMSC ITEM 805. THE PIPE MATERIAL SHALL BE TYPE K SOFT TEMPER COPPER OR A COLUMBUS DIVISION OF WATER APPROVED POLY TUBING FROM THE CURB STOP THRU THE WATER METER SETTING.
19. N/A.
20. N/A.
21. N/A.
22. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF WATER AT 614-645-7330 FOR INSPECTION AND HYDROSTATIC TEST OF 4" AND LARGER WATER SERVICE TAPS FROM THE WATER MAIN THRU THE CONTROL VALVE AND WATER SERVICES FROM THE CONTROL VALVE THRU THE WATER METER SETTING. HYDROSTATIC TEST SHALL BE PER CMSC ITEM 801.16 AND SHALL BE PERFORMED FROM THE WATER MAIN THRU THE WATER METER SETTING.
23. ALL 4" THRU 12" WATER SERVICE PIPE SHALL BE ONLY DUCTILE IRON FROM THE CITY WATER MAIN THRU THE CITY WATER METER SETTING(S) INCLUDING THE METER BYPASS.
24. ALL EXPOSED WATER MAIN AND ALL WATER SERVICE PIPE 4" AND LARGER SHALL BE POLYWRAPPED PER CMSC ITEM 801.03 TO A POINT 10 FOOT BEYOND THE RIGHT OF WAY VALVE(S).
25. WHEN A 4" OR LARGER TAP IS TO OCCUR ON A 20" OR LARGER WATER MAIN, THE CONTRACTOR SHALL NOTIFY THE DIVISION OF WATER OPERATIONS CONTROL CENTER AT 614-645-7168, TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING THE TAP.
26. N/A.
27. 4" AND LARGER METER SETTING(S) SHALL BE PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-6317 A-E.
28. 2" AND LARGER METERS SHALL BE PURCHASED AT THE UTILITY PERMITS OFFICE AT 111 N. FRONT STREET AND PICKED UP AT UTILITY METERING SERVICES AT 3568 INDIANOLA AVENUE.
29. BACKFLOW PREVENTION ASSEMBLY(S) SHALL BE INSTALLED, WHERE REQUIRED, PER COLUMBUS DIVISION OF WATER STANDARD DETAIL DRAWINGS L-9002 A THRU G. CONTRACTOR(S) SHALL CALL 614-645-6674 WITH BACKFLOW PREVENTION QUESTIONS. CONTRACTOR(S) SHALL CALL 614-645-5781 TO SCHEDULE BACKFLOW PREVENTION INSPECTION REQUESTS.
30. DOMESTIC WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE ASSE #1013 APPROVAL/STANDARD.
31. COMBINATION WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE ASSE #1013 APPROVAL/STANDARD.
32. THE FIRE WATER SERVICE BACKFLOW PREVENTER(S) SHALL MEET THE APPROPRIATE ASSE APPROVAL/STANDARD AND SHALL BE EQUIPPED WITH A DETECTOR METER THAT IS ITRON 100W (TOWER) OR 100R (REMOTE), MEASURES IN CUBIC FEET AND MEETS THE AWWA C-700 STANDARD. FIRE WATER BACKFLOW PREVENTER(S) SHALL BE SIZED TO MATCH THE FIRE WATER SERVICE SIZE AND EQUIPPED WITH O.S.&Y. VALVES.
33. N/A.
34. A 1" I.D. CONDUIT WITH 1 DRAWSTRING PER WATER METER SHALL BE PROVIDED BY THE BUILDING CONTRACTOR FROM THE WATER METER TO AND THRU 6" BEYOND THE FINISHED EXTERIOR WALL OF THE BUILDING AND 1' TO 5' ABOVE THE FINISHED GRADE.
35. A 1" I.D. CONDUIT WITH 1 DRAWSTRING PER WATER METER SHALL BE PROVIDED BY THE SITE UTILITY CONTRACTOR FROM THE WATER METER VAULT TO THE HEATED ENCLOSURE. CONDUIT SHALL EXTEND 6" INTO THE METER VAULT AND BE CLEAR OF ALL ACCESS PORTALS. CONDUIT SHALL BE CORE DRILLED AND EXTEND 24" UP ABOVE THE CONCRETE SLAB FOR THE HEATED ENCLOSURE ALONG THE HEATER WALL. CONDUIT SHALL HAVE A MINIMUM BURY OF 24" FROM THE VAULT TO THE HEATED ENCLOSURE. CONDUIT SHALL BE FOR THE REMOTE WIRES ONLY. ANY OTHER WIRING SHALL HAVE A SEPARATE CONDUIT.
36. IF DOMESTIC AND/OR FIRE WATER SERVICE METER(S) AND/OR THEIR BACKFLOW PREVENTER(S) ARE TO BE LOCATED INSIDE AN ABOVE GROUND HEATED ENCLOSURE, THE ENCLOSURE SHALL BE ASSE #1060 CLASS 1 APPROVED. THE ENCLOSURE SHALL HAVE A THERMOSTATICALLY OPERATED HEATER. THE SIZE AND NUMBER OF HEATER(S) SHALL BE PER THE ENCLOSURE MANUFACTURER'S SPECS TO MAINTAIN A 40 DEGREE FAHRENHEIT INSIDE TEMPERATURE AT AN OUTSIDE TEMPERATURE OF MINUS 30 DEGREE FAHRENHEIT. HEAT TAPE/RODS WILL NOT BE PERMITTED.
37. BACKFLOW PREVENTION DEVICES MUST BE TESTED AT THE TIME OF INSTALLATION BY A TESTER APPROVED BY THE DIVISION OF WATER BACKFLOW COMPLIANCE OFFICE. A COMPLETE LIST OF APPROVED TESTERS CAN BE FOUND AT WWW.COLUMBUS.GOV/BACKFLOW/CONSUMERS. RESULTS MUST BE SUBMITTED THROUGH THE ONLINE WEB SUBMITTAL SYSTEM AT WWW.COLUMBUS.GOV/TEMPLATES/DETAILS.ASPX?ID=79397.

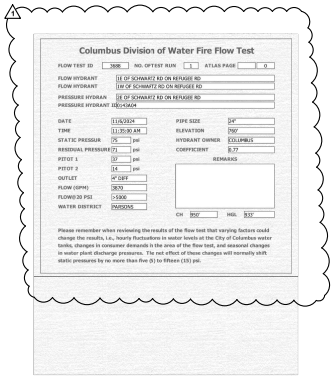
UNDERGROUND PRIVATE WATER SYSTEM(S) AFTER THE CITY WATER METER(S)

38. SITE UTILITY CONTRACTOR SHALL CALL THE LOCAL BUILDING AUTHORITY FOR INSPECTION OF UNDERGROUND PRIVATE DOMESTIC AND/OR FIRE WATER SYSTEM(S) AFTER THE CITY WATER METER(S). THIS WILL INCLUDE DOMESTIC WATER LOOPS AND FIRE WATER LOOPS INCLUDING PRIVATE FIRE HYDRANTS THRU THE SITE BEFORE COVERING.
39. SITE UTILITY CONTRACTOR SHALL CALL COLUMBUS DIVISION OF FIRE AT 614-645-8673 FOR FLUSHING AND/OR PRESSURE TEST INSPECTION OF PRIVATE FIRE SYSTEM AFTER THE CITY FIRE WATER SERVICE METER AND BACKFLOW PREVENTER.
40. N/A.
41. ALL PIPE MATERIAL FOR THE UNDERGROUND PRIVATE WATER SYSTEM AFTER THE CITY WATER METER SHALL MEET THE REQUIREMENTS OF THE LOCAL BUILDING AUTHORITY HAVING JURISDICTION.



NOTES:
1. ALL WORK WITHIN BUILDING SHALL BE PER PLUMBING SPECIFICATIONS.
2. COORDINATE FOOTING LOCATIONS AND SLEEVES WITH FOUNDATION CONSTRUCTION.
3. COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH PLUMBING CONTRACTOR.
4. PROVIDE CEMENT-LINED DUCTILE IRON PIPE BEGINNING 5'-0" OUTSIDE OF THE BUILDING AND CONTINUING THROUGH THE FLOOR PENETRATION. CAP WATER SERVICE ABOVE GROUND FOR FUTURE CONNECTION BY THE PLUMBING CONTRACTOR.

A DETAIL
WATER SERVICE TERMINATION (SLAB ON GRADE) N.T.S.



Columbus Division of Water Fire Flow Test

FLOW TEST ID: 3686 NO. OF TEST RUN: 1 ATLAS PAGE: 0

FLOW HYDRANT: 1E OF SCHWARTZ RD ON REFUGEE RD
FLOW HYDRANT: 1W OF SCHWARTZ RD ON REFUGEE RD
PRESSURE HYDRAN: S OF SCHWARTZ RD ON REFUGEE RD
PRESSURE HYDRANT: 1E0+43404

DATE	11/6/2024	PIPE SIZE	24"
TIME	11:35:00 AM	ELEVATION	760'
STATIC PRESSUR	75 psi	HYDRANT OWNER	COLUMBUS
RESIDUAL PRESSURE	73 psi	COEFFICIENT	0.77
PITOT 1	57 psi	REMARKS	
PITOT 2	54 psi		
OUTLET	4" GBF		
FLOW (GPM)	3879		
FLOW@ 20 PSI	>5000		
WATER DISTRICT	PMS0265		

CH: 9'00" HGL: 9'33"

Please remember when reviewing the results of the flow test that varying factors could change the results, i.e., hourly fluctuations in water levels at the City of Columbus water tanks, changes in consumer demands in the area of the flow test, and seasonal changes in water plant discharge pressures. The net effect of these changes will normally shift static pressures by no more than five (5) to fifteen (15) psi.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7098
TEL 614-487-1650 - FAX 614-487-1651 - URL www.korda.com

UTILITY NOTES & DETAILS

CMHA REFUGEE ROAD
3340 REFUGEE ROAD

WSPXXXX

SHEET:11/12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM#01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DIGNITY. OPPORTUNITY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
UTILITY NOTES & DETAILS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: GAM
DESIGNED BY: GAM
CHECKED BY: EJW
PROJECT NUMBER: 2022-0431

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

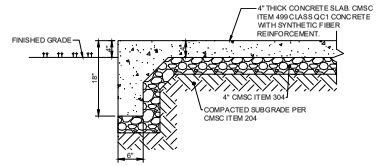
23446

C411

CD PROGRESS SET

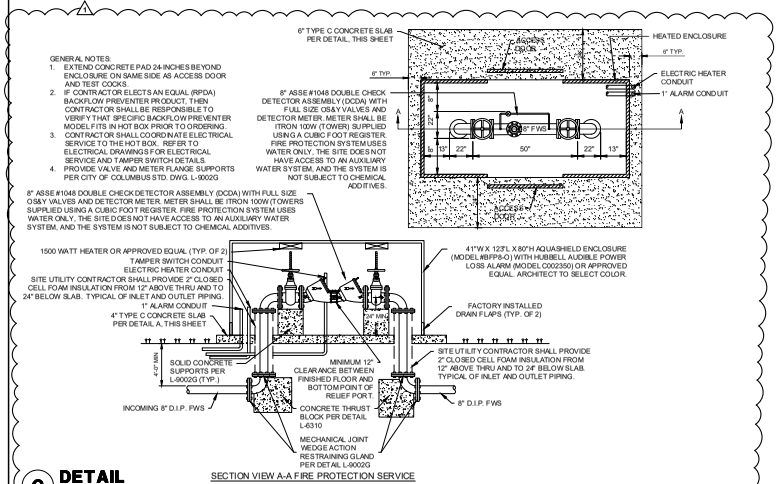
REVIT VERSION: 2023
PRINT DATE: 5/30/2025 11:38 AM
FILE INFO: Autodesk Docs://24004 CMHA Aspire Housing RESIDENCE_CMHA Aspire Housing_ASPX_R23.rvt

© 2024 MOODY NOLAN, INC.

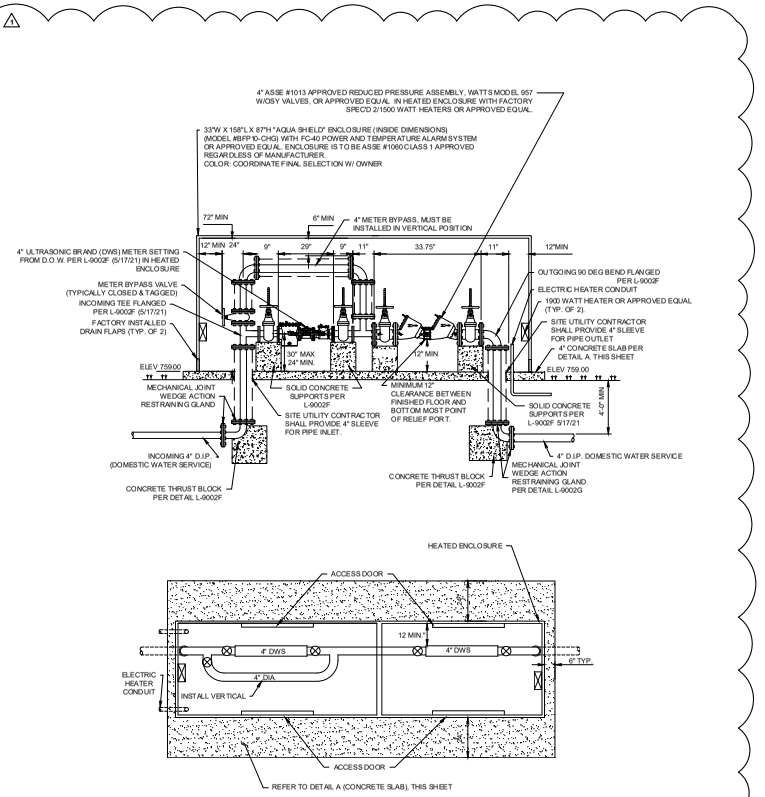


NOTES:
A. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED:
1. NYCON NYLON FIBERS
2. FORTA NYLO-MONO NYLON FIBERS
3. FIBERMESH FIBERMIX STEALTH POLYPROPYLENE FIBERS
4. GRACE POLYPROPYLENE FIBERS
SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.
B. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ.M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.
C. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
1. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
2. PROSOCO - SALTGUARD WB
3. HULS AMERICA INC. - CHEM-TRETE BSM 40
4. MASTER BUILDERS INC. - MASTERSEAL SL 40
5. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
6. BASF - ENVIROSEAL 40 OR HYDROZO SLANE 40
7. TEX-COTE - RAINSTOPPER RS140
D. PROVIDE TURNDOWN ON ALL FOUR SIDES OF CONCRETE SLAB.

A DETAIL
HOTBOX ENCLOSURE CONCRETE SLAB N.T.S.



C DETAIL
HOTBOX ENCLOSURES FOR FWS BACKFLOW PREVENTER N.T.S.



PLAN VIEW

B DETAIL
HEATED ENCLOSURE FOR DWS METER SETTING & BACKFLOW PREVENTERS N.T.S.

EASEMENT REFERENCE				REVISIONS		
CITY NO.	COUNTY RECORDER VOL.	COUNTY RECORDER PAGE	GRANTOR	NO.	DESCRIPTION	APPROVAL/DATE

KORDA
Korda/Nemeth Engineering, Inc - Consulting Engineers
1650 Watermark Drive, Suite 200 - Columbus, Ohio 43215-7418
TEL 614-487-1650 - FAX 614-487-1651 - WEB www.korda.com

UTILITY DETAILS

CMHA REFUGEE ROAD
3340 REFUGEE ROAD

WSPXXXX

SHEET:12/12

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OWNER: DAWNYA COLEMAN

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
UTILITY DETAILS

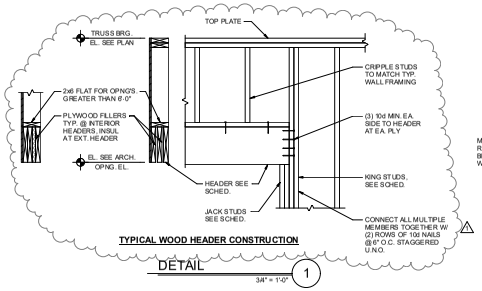
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
C412
CD PROGRESS SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215
DRAWN BY: EAM
DESIGNED BY: EAM
CHECKED BY: EJW
PROJECT NUMBER 2022-0431

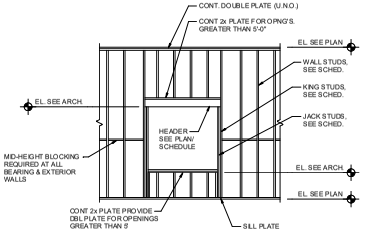
PRINT VERSION: 2023
PRINT DATE: 5/30/2025 12:09 PM
FILE INFO: Autodesk Docs://2022-0431 CMHA Aspire Housing 25232/2022_CMHA Aspire Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN, INC.



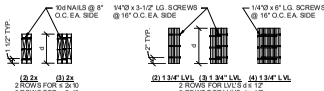
TYPICAL WOOD HEADER CONSTRUCTION

DETAIL 1 — 3/4" = 1'-0"



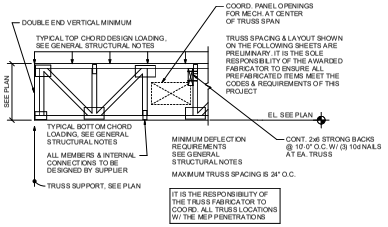
TYPICAL WALL AND OPENING CONSTRUCTION

DETAIL 2 — 3/4" = 1'-0"



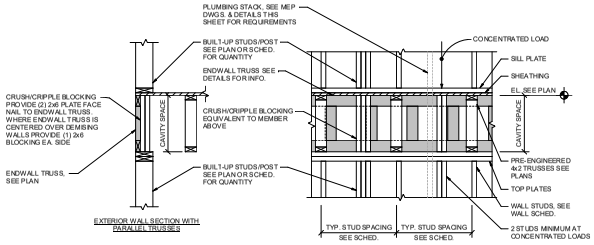
TYPICAL MULTIPLE WOOD MEMBER CONNECTION REQUIREMENTS

DETAIL 3 — 3/4" = 1'-0"



TYPICAL PRE-ENGINEERED 4x2 FLOOR TRUSS REQUIREMENTS

DETAIL 4 — 3/4" = 1'-0"



NOTES:

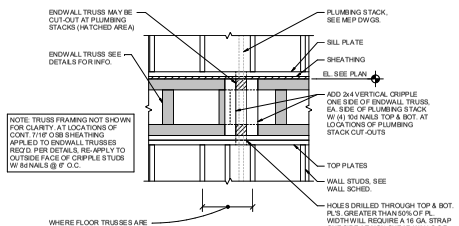
1) ALL CONCENTRATED LOADS FROM COLUMNS/POSTS TO HAVE CONTINUOUS LOAD PATH TO FOUNDATION. PROVIDE CRUSH/CRIPPLE BLOCKING WITHIN FLOOR CAVITY SPACES EQUIVALENT TO MEMBER SIZE ABOVE

2) ALL CONCENTRATED LOADS ON WALL TO HAVE A MINIMUM OF 2-2x BUILT-UP STUD POST AT SUPPORTS UNLESS NOTED OTHERWISE ON PLAN

3) ENDWALL TRUSS TO HAVE A MINIMUM 2x4 TOP & BOTTOM CHORD AND 2x4 VERTICALS @ 16" O.C. WHEN CARRYING 3 STORIES OR LESS AND 2x4 VERTICALS @ 12" O.C. WHEN CARRYING 4 STORIES OR MORE

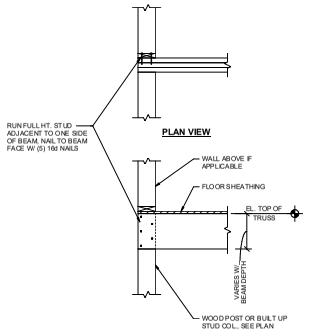
TYPICAL CRIPPLE BLOCKING REQUIRMENTS

DETAIL 5 — 3/4" = 1'-0"



DETAIL AT PLUMBING STACK

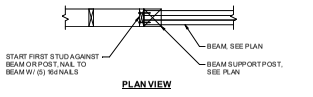
DETAIL 6 — 3/4" = 1'-0"



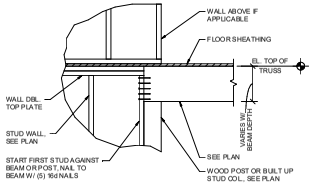
PLAN VIEW

TYPICAL BEAM BEARING ON PERPENDICULAR WALL

DETAIL 7 — 3/4" = 1'-0"



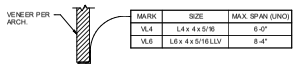
PLAN VIEW



TYPICAL BEAM BEARING ON END OF PARALLEL WALL

DETAIL 8 — 3/4" = 1'-0"

VENEER LINTELS



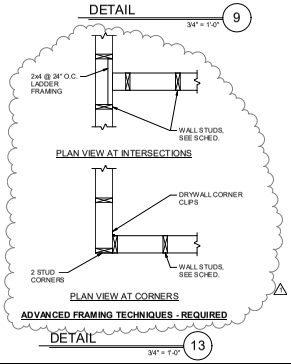
MARK	SIZE	MAX. SPAN (UNO)
VL4	L4 x 4 x 5/16	6'-0"
VL6	L6 x 4 x 5/16 LLV	8'-4"

VL(d)

VENEER LINTEL NOTES

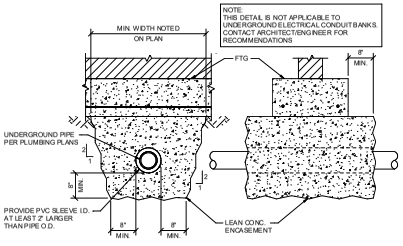
1. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
2. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
3. PROVIDE 8" MINIMUM BEARING EACH END.
4. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

DETAIL 9 — 3/4" = 1'-0"



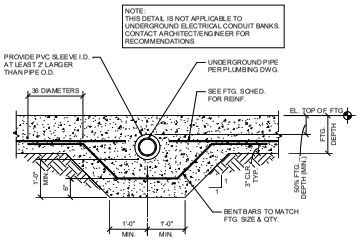
ADVANCED FRAMING TECHNIQUES - REQUIRED

DETAIL 13 — 3/4" = 1'-0"



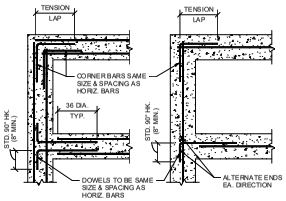
TYPICAL PIPE BELOW FOOTING

DETAIL 10 — 3/4" = 1'-0"



TYPICAL PIPE THROUGH FOOTING

DETAIL 11 — 3/4" = 1'-0"



TYPICAL CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION

SECTION 12 — 3/4" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

TYPICAL DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

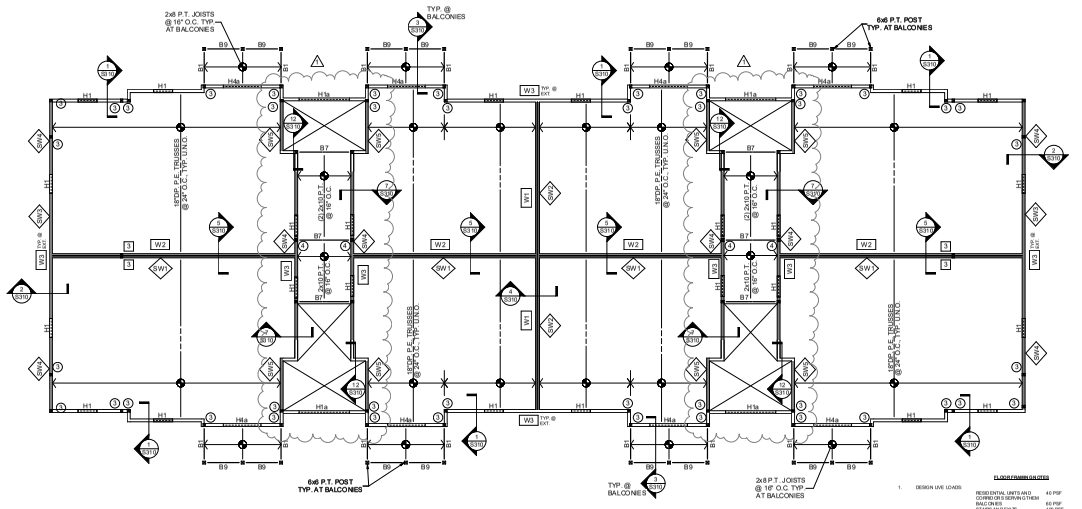
23446

S002

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 1:12:56 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - R23/23446.30.001 - CMHA Refugee Rd Apts_Revit R23.rvt

© 2024 MOODY NOLAN, INC.



2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   RESIDENTIAL UNITS AND CORRIDORS SERVING THEM: 40 PSF
   BALCONIES: 60 PSF
   STAIRS AND EXITS: 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/8" SIP BOARD BY RIP INDUSTRIES OVER 16" DEEP PRE-ENGINEERED 4IQ TRUSSES. GLUE AND SCREW WITH ADHESIVE MEETING APA SPECIFICATION S AFG-01 AND APPLIED IN ACCORDANCE WITH APA EWS Y245C. SCREW @ 6" O.C. AT PANEL EDGES AND @ 12" O.C. AT ALL INTERMEDIATE SUPPORTS (6" O.C. AT ALL PANEL EDGES AND 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   2ND FLOOR: EL. = 110'-8 5/8"
   3RD FLOOR: EL. = 121'-4 5/8"
   ROOF: EL. = 131'-0 3/4"
4. BW — INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "*BW" ARE TO BE FIRE RATED. SEE DETAILS S502 AND S503 FOR TYPICAL BEAM BEARING SUPPORTS.
5. HW — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS S502 AND S503 FOR STANDARD HEADER CONSTRUCTION.
6. 3xx / 3xx — INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO ONE SIDE: a STUD: COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTED BY THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED O THERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. "SPF #1/2 INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x 10	(1) 2x	(2) 2x	
H3a	(3) 2x 10	(2) 2x	(1) 2x	
H4	(3) 2x 12	(2) 2x	(2) 2x	
H4a	(3) 2x 12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

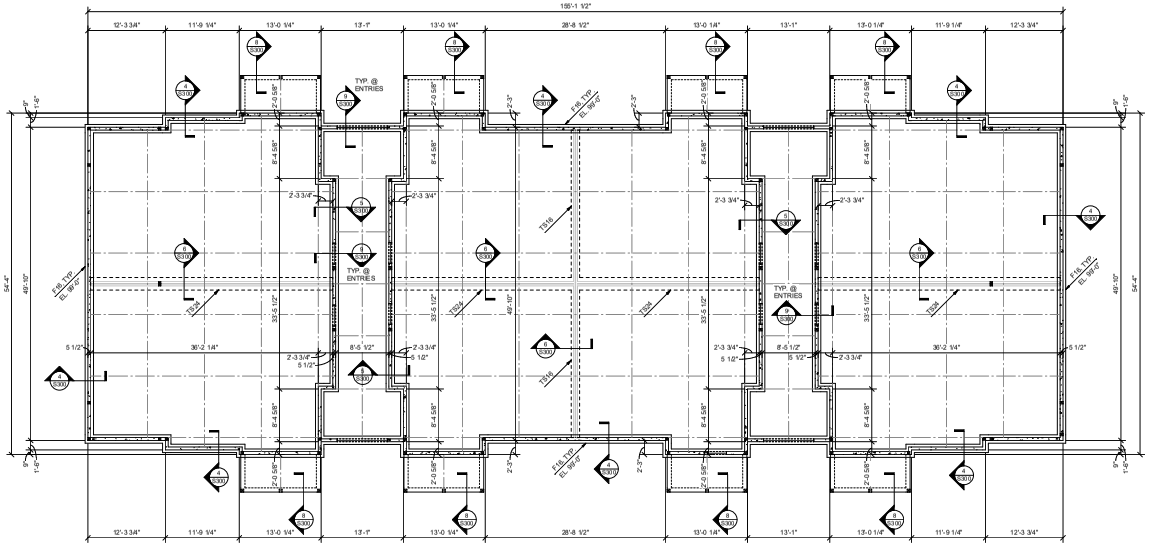
1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, S.P NO.2
B7	5- 1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUC24/12-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HUB616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGUS.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	
B13	(4) 2x10	PT, S.P NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.



FOUNDATION PLAN

1/8" = 1'-0"

CONT. WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
T1516	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
T1524	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 1,500 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE/BUILDING PAD PREPARATION PRIOR TO FOOTING PLACEMENT. SLABS ON GRADE CONSTRUCTED OVER EXCAVATIONS MAY BE REQUIRED TO BE EXCAVATED WIDER THAN SHOWN TO ACCOMMODATE COMPACTION EQUIPMENT AND MATERIAL. OVER EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 30 INCHES BELOW THE AGJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTING INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP. PER SECTION 3510D. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 1/S502.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPENING DOORWAYS. ZOLUMBUS OHIO.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

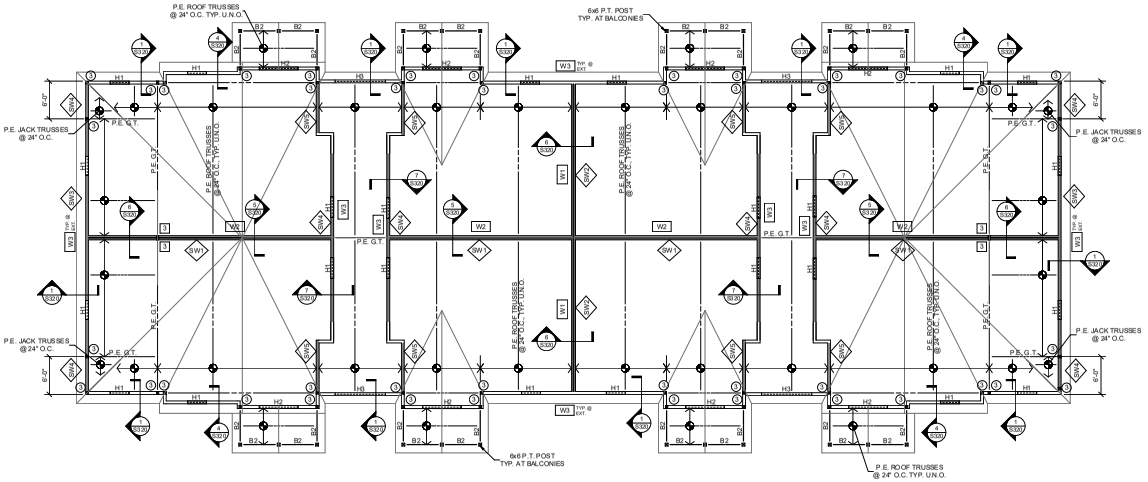
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. A

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
S101-A
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:00 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - A105/24.05.001 - CMHA Refugee Rd Apts_25revit R23.rvt

© 2024 MOODY NOLAN, INC.

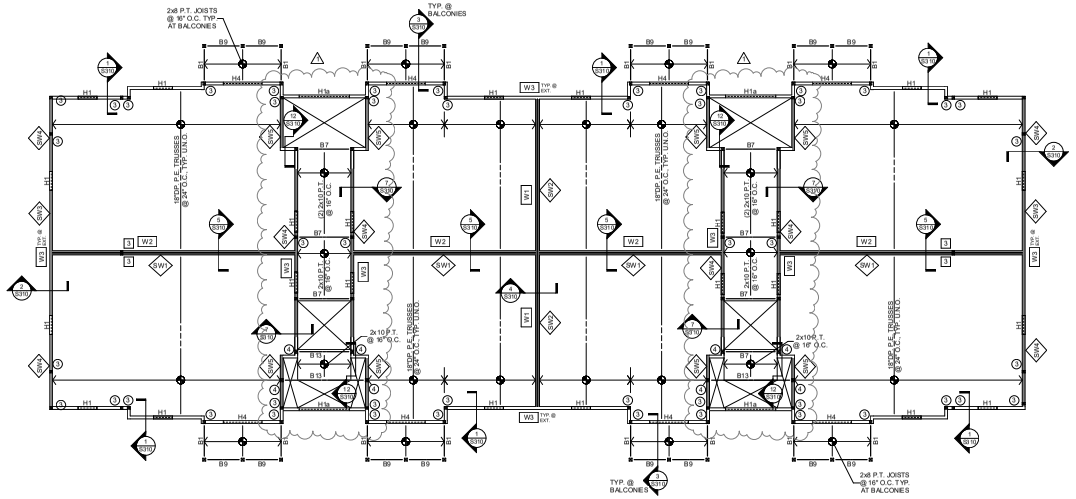


ROOF FRAMING PLAN

18" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS: SLOPED ROOF LIVE 16 PSF; SLOPED ROOF SNOW 15 PSF; WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION: 7/16" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING. UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES RIPS LP FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STACK-BUILD WITH EDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 141'-2 1/8" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. BM INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S502 AND 8/S502 FOR TYPICAL BEAM BEARING SUPPORTS.
6. HW INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 10/S502 AND 2/S502 FOR STANDARD HEADER CONSTRUCTION.
7. (2)2x6 / T-1 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GARDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S0/S0 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S0/S0 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S0/S1 FOR GENERAL STRUCTURAL INFORMATION.



3RD FLOOR FRAMING PLAN

18" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS: RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF; BALCONIES 60 PSF; STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION: 1 ⅛" SIP BOARD BY REP INDUSTRIES OVER 9"DEEP PRE-ENGINEERED JOIST TRUSSES. GLUE AND SCREW SIP BOARD TO TRUSSES WITH CONSTRUCTION ADHESIVE AND SCREWS AS PER SIP MANUFACTURER'S RECOMMENDATIONS. PROVIDE #5 I.T.S. (TYZAK) SIMPSON STRONG-TIE W SHIM TILE REB @ 6'O.C. AT ALL PANELED EDGES AND 12'O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX. XX ABSOLUTE ELEVATION. TOP OF STEEL (TRUSS BEARING) ELEVATIONS FOR EACH LEVEL IS AS FOLLOWS: 3RD FLOOR: EL = 119'-6 5/8" / 4TH FLOOR: EL = 131'-4 5/8" / ROOF: EL = 131'-6 3/4"
4. BM INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "BM" ARE TO BE FIRE RATED. SEE DETAILS 7/S502 AND 8/S502 FOR TYPICAL BEAM BEARING SUPPORTS.
5. HW INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 10/S502 AND 2/S502 FOR STANDARD HEADER CONSTRUCTION.
6. (2)2x6 / T-1 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S0/S0 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S0/S0 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S0/S1 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED O THERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. "SPF #1/2 INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x 10	(1) 2x	(2) 2x	
H3a	(3) 2x 10	(2) 2x	(1) 2x	
H4	(3) 2x 12	(2) 2x	(2) 2x	
H4a	(3) 2x 12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, S/P NO.2
B7	5-1/4" x 9-1/4" PSL	P.T. 2.0E
B8	5-1/4" x 11-7/8" PSL	P.T. 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B 10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B 10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B 10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B 10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B 11	(3) 1-3/4" x 18" LVL	
B 11a	(3) 1-3/4" x 18" LVL	SIMPSON HUB616 EA. END
B 11b	(3) 1-3/4" x 18" LVL	SIMPSON MGUS.5-SDS ONE END
B 12	(4) 1-3/4" x 18" LVL	
B 13	(4) 2x10	PT, S/P NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DOING BUSINESS AS COLUMBUS METROPOLITAN HOUSING AUTHORITY

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
3RD FLOOR AND ROOF FRAMING PLAN- BLDG. A

05/01/2025

23446

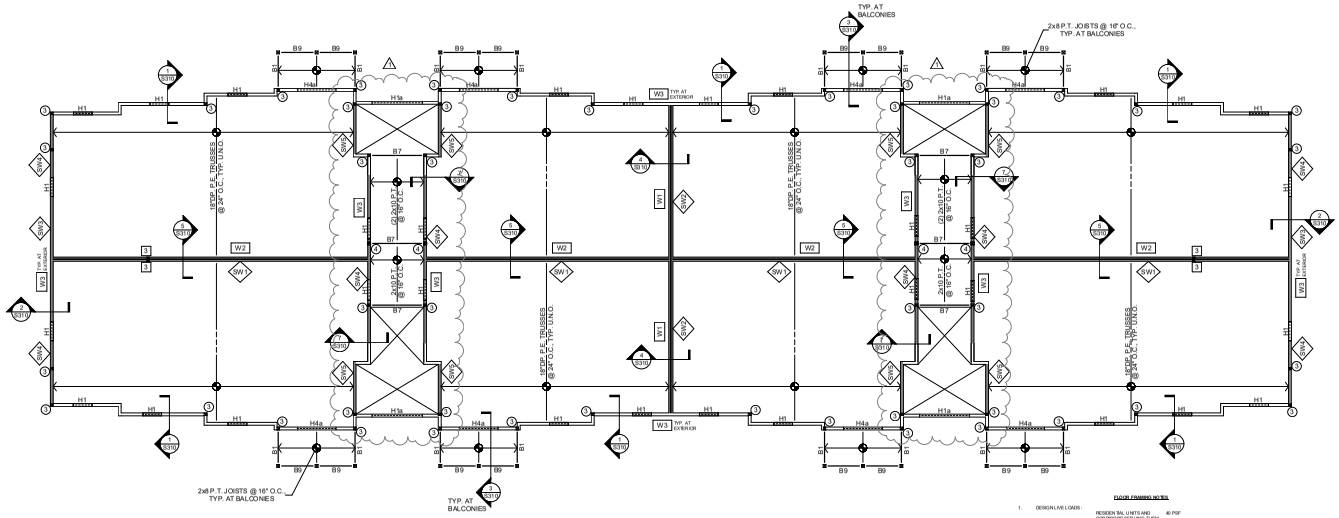
PROGRESS DRAWING NOT FOR CONSTRUCTION

S102-A

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:03 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/24.00.001 - CMHA Refugee Rd Apts_Struct R23.rvt

© 2024 MOODY NOLAN, INC.



2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   - RESIDENTIAL UNITS AND CORRIDORS SERVING THEM: 40 PSF
   - STAIRWAYS AND EXITS: 60 PSF
2. FLOOR CONSTRUCTION:
   15/16" SIMP BOARD BY RIDT INDUSTRIES OVER 16" DEEP PRI-JOIN ENGINEERED I-JOIST TRUSSES. GLUE AND SCREW WITH ADHESIVES MEETING APA SPECIFICATIONS AR-200 AND APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE 8'0, 11 1-1/2 OR 23 SIMPSON STRONG-TIE H2.5A OR H10A CLIPS AT EACH END OF EACH JOIST. PROVIDE 2 CLIPS AT EACH END OF EACH JOIST AT ROOF UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS:
   - 2ND FLOOR: EL. = 110-8 3/8"
   - 3RD FLOOR: EL. = 121-4 3/8"
   - ROOF: EL. = 131-0 3/4"
4. BW — INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "BW" ARE TO BE FIRE RATED. SEE DETAILS 1/S002 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
5. HW — INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 1/S002 AND 2/S002 FOR STANDARD HEADER CONSTRUCTION.
6. (x)at B — INDICATES THE NUMBER OF (x) WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# — INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HDW — INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSION IS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. E.A. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. E.A. SIDE	SPF #1/#2
	1S T FLOOR	2 x 4 @ 24" O.C. E.A. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. E.A. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. E.A. SIDE	SPF #1/#2
	1S T FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1S T FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. E.A. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO. 1/NO. 2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

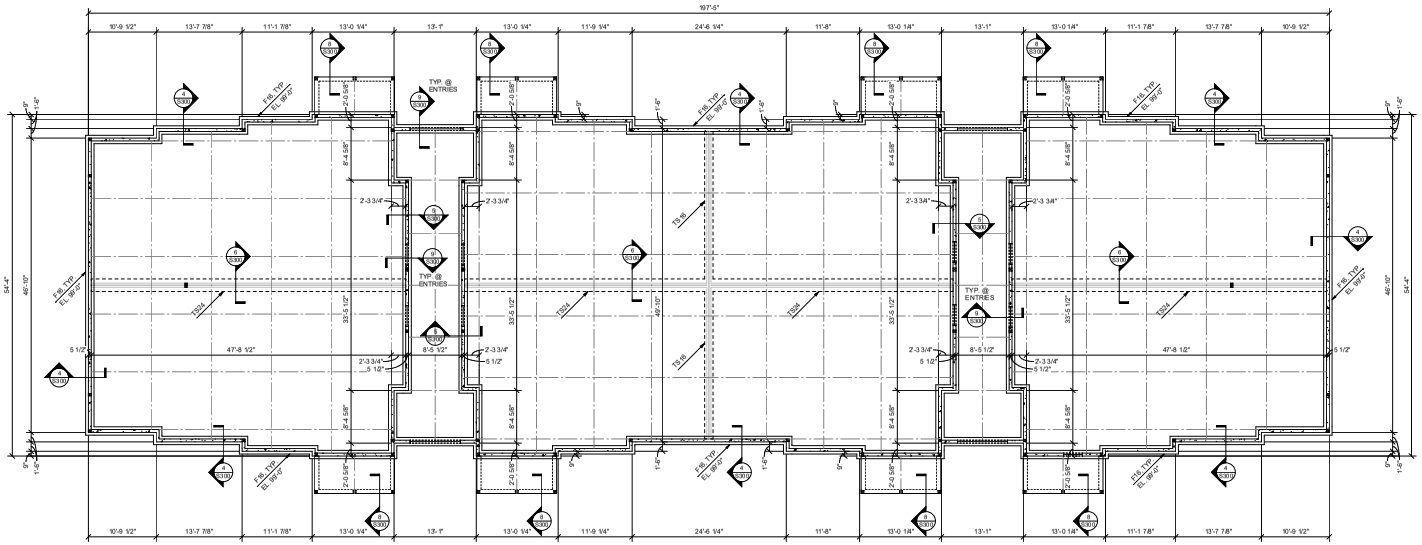
1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 E.A. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUC24/13-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 E.A. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGUS.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	
B13	(4) 2x10	PT, SP NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.



FOUNDATION PLAN

1/8" = 1'-0"

CONT. WALL FOOTING SCHEDULE

MARK	SIZE	REINFORING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3000 PSF. SEE S001 FOR REFERENCE S OILS REPORT INFORMATION. REFER ED THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE MADE WITH VERTICAL SIDES PROVIDED THE SOIL IS SUFFICIENTLY FIRM TO MAINTAIN SUCH A SHAPE UNTIL CONCRETE IS PLACED. ALL FOOTING EXCAVATIONS ARE TO BE FREE OF LOOSE AND DISTURBED MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATION S FREE OF WATE RAT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 30 INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP PER SECTION 3/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER RE BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 13/S300.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPPORTUNITY. CONFIDENCE. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

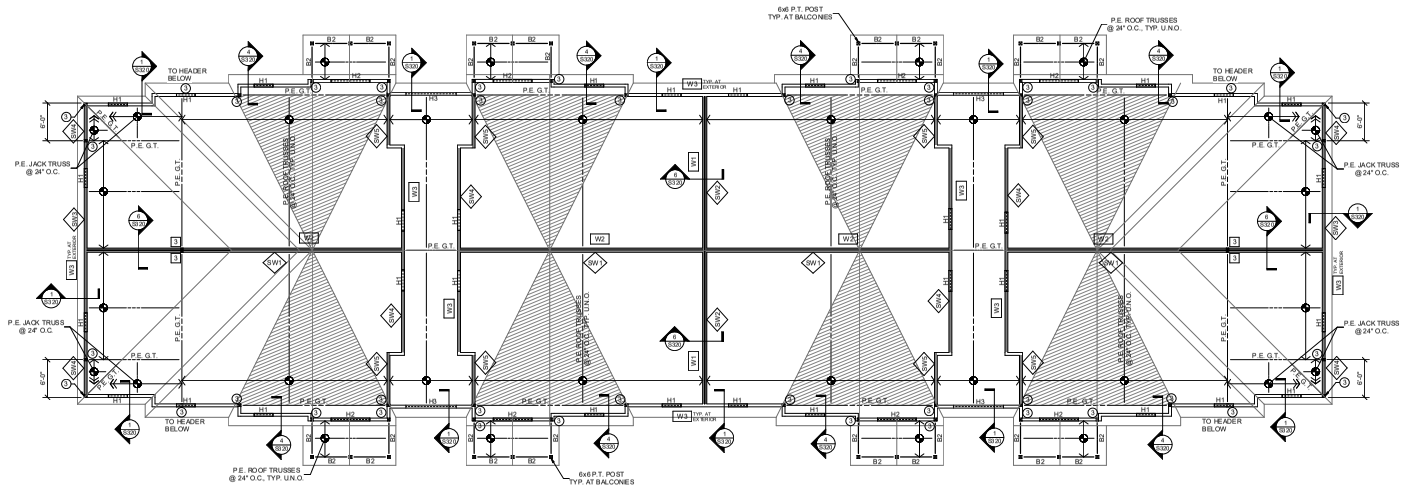
DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. B

05/01/2025
23446
S103-B
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:56 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/24.30.001 - CMHA Refugee Rd Apts_Shaul.rvt

© 2024 MOODY NOLAN, INC.



ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   SLOPED ROOF LIVE 16 PSF
   SLOPED ROOF SNOW 15 PSF
   WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 3x FRAMING UNLESS NOTED OTHERWISE. FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DON OF STICK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = M.1-2.11'-0" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. BM INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS S700/2 AND S500/2 FOR TYPICAL BEAM BEARING SUPPORTS.
6. H# INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES (AS DETAIL S1 16/02 AND 3/50/2 FOR STANDARD DHEADER CONSTRUCTION.
7. (2)2x6 / (3)2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HDW INDICATES WOOD FRAMED SHEARWALL HOLD DOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

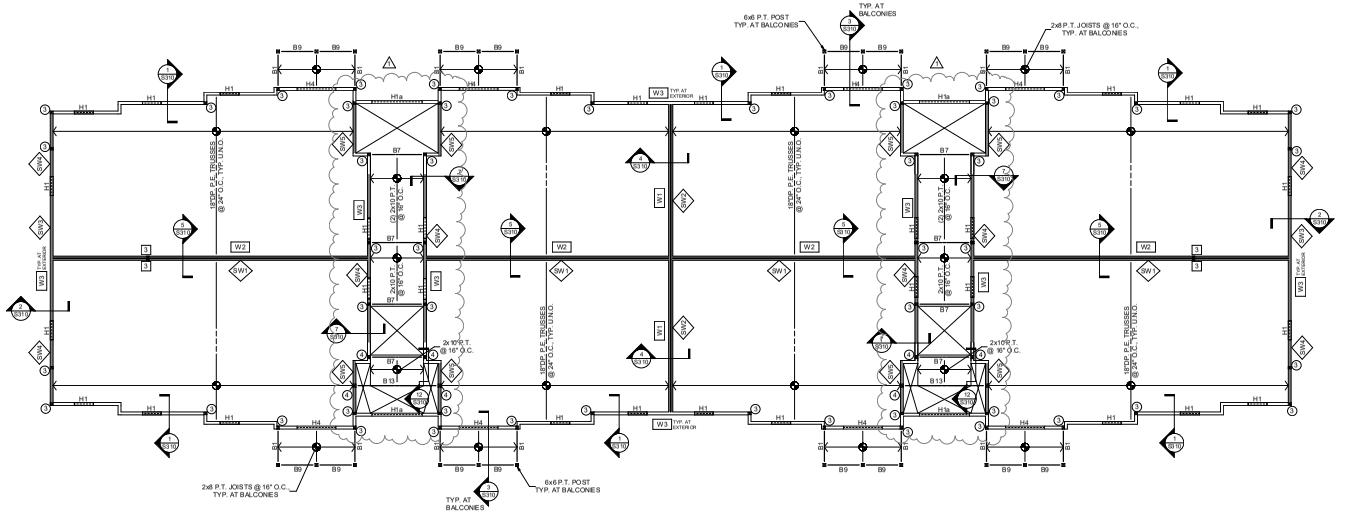
1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x 10	
B5	(3) 2x 10	PT
B6	(3) 2x 10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ4-S-SDS ONE END
B10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HUC616 EA. END
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGUS.5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	
B13	(4) 2x 10	PT, SP NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.



3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF
   BALCONIES 60 PSF
   STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION:
   1 3/16 SHP BOARD BY RIP INDUSTRIES OVER 16"DEEP PRE-ENGINEERED 40G TRUSSES. GLUE AND SCREW WITH ADHESIVE AND SPECIFICATION S APG 01 AND APPLIED IN ACCORDANCE WITH APA EWS TECHNICAL GUIDE FOR GLUED FLOOR SYSTEMS. NAIL WITH 8d RING SHANK NAILS WITH SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES IN EED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLABON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL/TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS
   2ND FLOOR EL. = 110'-6 5/16"
   3RD FLOOR EL. = 119'-0 5/16"
   ROOF EL. = 131'-6 3/4"
4. BM INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "1BR" ARE TO BE 1RR E RATED. SEE DETAILS S700/2 AND S500/2 FOR TYPICAL BEAM BEARING SUPPORTS.
5. H# INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAIL S1 6/02/2 AND 3/50/2 FOR STANDARD DHEADER CONSTRUCTION.
6. (2)2x6 / (3)2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HDW INDICATES WOOD FRAMED SHEARWALL HOLD DOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPENING DOORS. CHANGING LIVES.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
3RD FLOOR AND ROOF FRAMING PLAN- BLDG. B

05/01/2025

23446

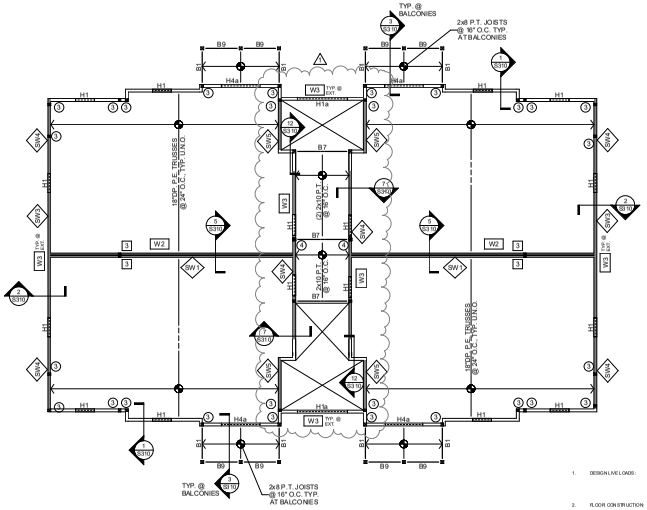
PROGRESS DRAWING NOT FOR CONSTRUCTION

S104-B

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:11 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/04 S0-B1 - CMHA Refugee Rd Hsg. Dvlpmt (R23).rvt

© 2024 MOODY NOLAN, INC.

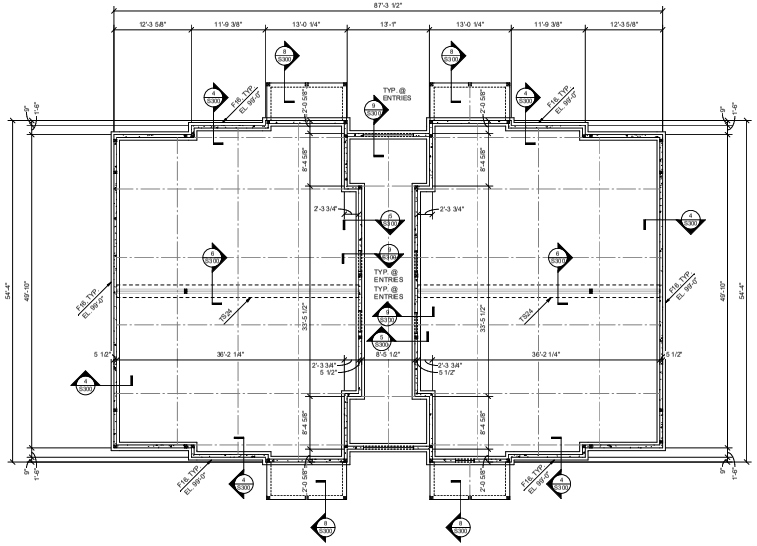


2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS: RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40PSF
   BALCONIES 60PSF
   STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION: 1.5 I-ST SAP BOARD BY RSP INDUSTRIES OVER 16"DEEP PRE-ENGINEERED ACI TRUSSES. GLUE AND SCREW TO TRUSSES @ 12"O.C. AT ALL PANEL EDGES AND @ 24"O.C. AT ALL INTERMEDIATE SUPPORTS. SEE NOTE MANUFACTURER'S RECOMMENDATIONS. PROVIDE 4'-1.5 x 1'-0 LOW DENSITY BLOCKING, 16" MIN. T, SCREW @ 6"O.C. AT ALL PANEL EDGES AND 12"O.C AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED ON DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0"= TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STEEL TRUSS BEARING ELEVATION FOR EACH LEVEL IS AS FOLLOWS
   1ST FLOOR EL. = 100'-0"
   2ND FLOOR EL. = 109'-4 5/8"
   ROOF EL. = 121'-5 3/4"
4. BM INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "BM" ARE TO BE FIRE RATED. SEE DETAILS 1/S602 AND 8/S602 FOR TYPICAL ALBEAM BEARING SUPPORTS
5. HM INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE DETAILS 1/S602 AND 2/S602 FOR BEARING CONDITIONS AND DETAILS 1/S602 AND 2/S602 FOR STANDARD HEADER CONSTRUCTION.
6. (2)HF (3)HF INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE
7. SW# INDICATES WOOD SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HDU# INDICATES WOOD SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE AND TYPICAL DETAILS. HOLDOWNS ARE LOCATED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSION NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



FOUNDATION PLAN

1/8" = 1'-0"

WALL STUD SCHEDULE			
MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED O THERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. "SPF #1/2 INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x 10	(1) 2x	(2) 2x	
H3a	(3) 2x 10	(2) 2x	(1) 2x	
H4	(3) 2x 12	(2) 2x	(2) 2x	
H4a	(3) 2x 12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, S P NO.2
B7	5- 1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B 10	(2) 1- 3/4" x 1 8" LVL	SIMPSON HUC416 EA. END
B 10a	(2) 1- 3/4" x 1 8" LVL	SIMPSON HUC416 ONE END
B 10b	(2) 1- 3/4" x 1 8" LVL	SIMPSON HUCQ412-SDS ONE END
B 10c	(2) 1- 3/4" x 1 8" LVL	SIMPSON HGU3.63-SDS ONE END
B 11	(3) 1- 3/4" x 1 8" LVL	
B 11a	(3) 1- 3/4" x 1 8" LVL	SIMPSON HU816 EA. END
B 11b	(3) 1- 3/4" x 1 8" LVL	SIMPSON MGUS.5-SDS ONE END
B 12	(4) 1- 3/4" x 1 8" LVL	
B 13	(4) 2x10	PT, S P NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BE AR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 1,500 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE/BUILDING PAD PREPARATION PRIOR TO FOOTING EXCAVATION. WHERE FOOTINGS ON ENGINEERED FILL OR EXCAVATION MAY BE REQUIRED TO EXTEND THROUGH FILL OR UNSUITABLE SOILS TO BEARING ON NATIVE MATERIAL. OVER EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 30 INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTING INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP. PER SECTION 3/S300. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTION PER DETAIL 1/S602.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPPORTUNITY. CONFIDENCE. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

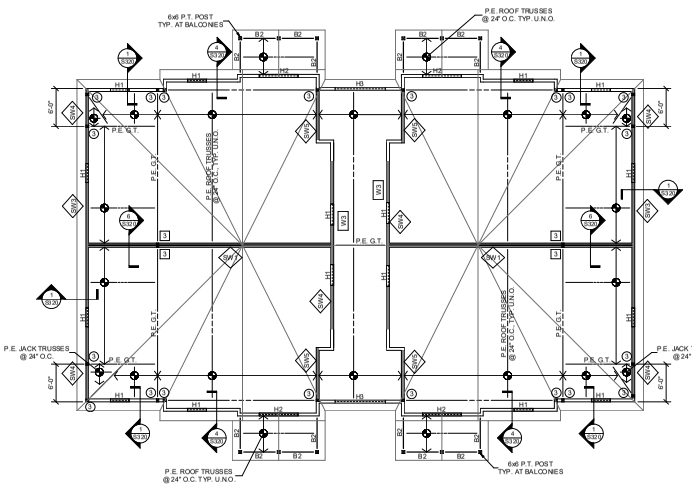
DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. C

05/01/2025
23446
S105-C
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:14 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/24.30.001 - CMHA Refugee Rd Hsg. Dvlpmt (Phase 1).rvt

© 2024 MOODY NOLAN, INC.

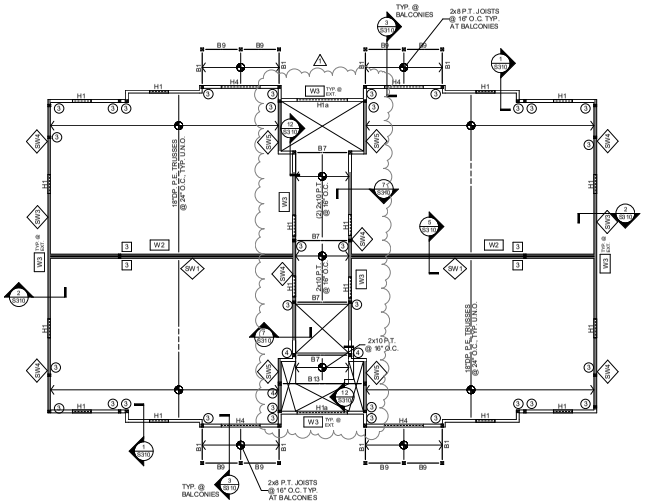


ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   SLOPED ROOF LIVE 16 PSF
   SLOPED ROOF SNOW 15 PSF
   WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PREFABRICATED WOOD TRUSSES OR 2x FRAMING UNLESS NOTED OTHERWISE. FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO TRUSSES BELOW. FRAMING SUPPORT SPACING OF 2'-6". D.O.H. OF STIFFENING WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = W.T.J.V.V.F. UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. BM INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S502 AND 8/S502 FOR TYPICAL BEAM BEARING SUPPORTS.
6. HM INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 7/S502 AND 3/S502 FOR STANDARD HEADER CONSTRUCTION.
7. (2)x6 / 2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS:
   RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF
   BALCONIES 60 PSF
   STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION:
   1 1/8" SHEATHING BY REF INDUSTRIES OVER HYBEAM ENGINEERED I-JOISTS. GLUE AND NAIL SHEATHING TO SUPPORTS WITH CONSTRUCTION ADHESIVE AND NAILING PATTERN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE 4½" I.S.x 21/2(4) SIMPSON STRONG-TIE W.SHTL.SC REW @ 6"O.C. AT ALL PANELED EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OR DETAILED OTHERWISE.
3. REFERENCE ELEVATION IS 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX. XX ABSOLUTE ELEVATION. TOP OF STEEL TRUSS BEARING ELEVATIONS FOR EACH LEVEL IS AS FOLLOWS:
   2ND FLOOR: EL. = 110'-0 5/8"
   3RD FLOOR: EL. = 120'-4 1/8"
   ROOF: EL. = 130'-6 3/4"
4. BM INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "1HR" ARE TO BE FIRE RATED. SEE DETAILS 7/S502 AND 8/S502 FOR TYPICAL BEAM BEARING SUPPORTS.
5. HM INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS 7/S502 AND 3/S502 FOR STANDARD HEADER CONSTRUCTION.
6. (2)x6 / 2x4 INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (2) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
7. SW# INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S200 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HD# INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S200 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED O THERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. "SPF #1/2 INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x 10	(1) 2x	(2) 2x	
H3a	(3) 2x 10	(2) 2x	(1) 2x	
H4	(3) 2x 12	(2) 2x	(2) 2x	
H4a	(3) 2x 12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, S/P NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5-1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B 10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 EA. END
B 10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B 10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B 10c	(2) 1-3/4" x 18" LVL	SIMPSON HGU3.63-SDS ONE END
B 11	(3) 1-3/4" x 18" LVL	
B 11a	(3) 1-3/4" x 18" LVL	SIMPSON HUB616 EA. END
B 11b	(3) 1-3/4" x 18" LVL	SIMPSON MGUS5-SDS ONE END
B 12	(4) 1-3/4" x 18" LVL	
B 13	(4) 2x10	PT, S/P NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPENING DOORWAYS. COLUMBUS OH.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

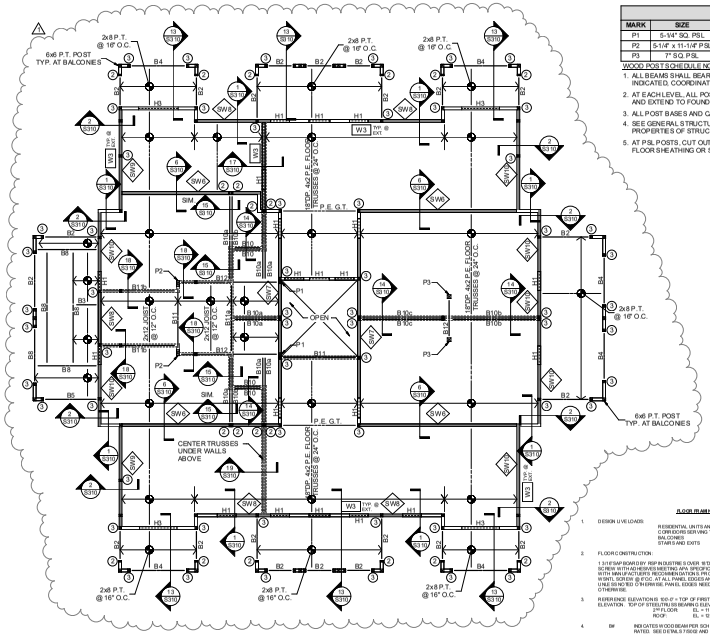
DRAWING TITLE:
3RD FLOOR AND ROOF FRAMING PLAN- BLDG. C

05/01/2025
23446
S106-C
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:17 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/04.S0-S01 - CMHA Refugee Rd Hsg. Dvlpmt_R23.rvt

© 2024 MOODY NOLAN, INC.



2ND FLOOR FRAMING PLAN

1/8" = 1'-0"

WOOD POST SCHEDULE			
MARK	SIZE	POST CAP	ADDITIONAL COMMENTS
P1	5-1/4" SQ. PSL	ECCQ6SDS2.5	
P2	5-1/4" x 11-1/4" PSL	ECCLQ7.1-6SDS2.5	
P3	7" SQ. PSL	ECCQ7.1-7.1SDS2.5	

WOOD POST SCHEDULE NOTES:

1. ALL BEAMS SHALL BEAR FULLY ON WOOD POSTS. WHERE POST CAPS ARE INDICATED, COORDINATE MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH...
2. AT EACH LEVEL, ALL POSTS SHALL BE COMPRISED OF ONE CONTINUOUS PIECE AND EXTEND TO FOUNDATION SUPPORT OR TRANSFER BEAM BELOW, UNLESS...
3. ALL POST BASES AND CAPS ARE TO BE BY SIMPSON STRONG TIE, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR LUMBER GRADES OR MINIMUM PROPERTIES OF STRUCTURAL COMPOSITE LUMBER.
5. AT PSL POSTS, CUT OUT TOP AND BOTTOM PLATES AND INSTALL POSTS TIGHT TO FLOOR SHEATHING OR SUPPORT.

WALL STUD SCHEDULE			
MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED O THERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. "SPF #1/2 INDICATES SPRUCE-PINE-FIR NO.1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x 10	(1) 2x	(2) 2x	
H3a	(3) 2x 10	(2) 2x	(1) 2x	
H4	(3) 2x 12	(2) 2x	(2) 2x	
H4a	(3) 2x 12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

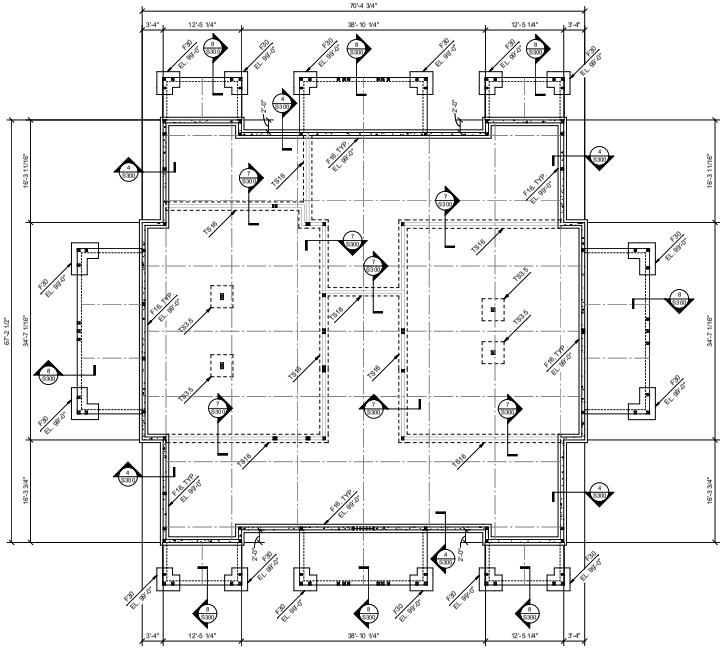
WOOD BEAM SCHEDULE		
MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x8	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, S P NO.2
B7	5- 1/4" x 9- 1/4" PSL	P T, 2.0E
B8	5-1/4" x 11- 7/8" PSL	P T, 2.0E
B9	(3) 1-3/4" x 7- 1/4" LVL	
B 10	(2) 1- 3/4" x 1 8" LVL	SIMPSON HUC4 16 EA. END
B 10a	(2) 1- 3/4" x 1 8" LVL	SIMPSON HUC4 16 ONE END
B 10b	(2) 1- 3/4" x 1 8" LVL	SIMPSON HUC04 12-SDS ONE END
B 10c	(2) 1- 3/4" x 1 8" LVL	SIMPSON HGU3.63-SDS ONE END
B 11	(3) 1- 3/4" x 1 8" LVL	
B 11a	(3) 1- 3/4" x 1 8" LVL	SIMPSON HU816 EA. END
B 11b	(3) 1- 3/4" x 1 8" LVL	SIMPSON MGUS.5-SDS ONE END
B 12	(4) 1- 3/4" x 1 8" LVL	
B 13	(4) 2x10	P T, S P NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

FLOOR FRAMING NOTES

1. DESIGN LIVE LOADS: RESIDENTIAL UNITS AND CORRIDORS SERVING THEM 40 PSF; BALCONIES 60 PSF; STAIRS AND EXITS 100 PSF
2. FLOOR CONSTRUCTION: 1 3/16"SIP BOARD BY RSP INSULSTRE S OVER 9.5"DEEP PRE-ENGINEERED WOOD I-JOISTS, GLUE AND NAIL TO SUPPORTING STRUCTURE AT 24" O.C. SPACING. INSTALL I-JOISTS AND SIP BOARD IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. PROVIDE 4'W x 1'L x 1.5"D SIMPSON STRONG-TIE W SNTL SCREW @ 6"OC AT ALL PANEL EDGES AND 12"O.C. AT ALL INTERMEDIATE SUPPORTS U NLESS NOTED O THERWISE. PANEL EDGES NEED NOT BE BLOCKED UNLESS NOTED OTHERWISE ON PLANS OTHERWISE.
3. REFERENCE ELEVATIONS: '00'-0" = TOP OF FIRST FLOOR SLAB ON GRADE = XXX.XX' ABSOLUTE ELEVATION. TOP OF STRUCTURAL SHEATHING ELEVATION FOR EACH LEVEL IS AS FOLLOWS: 2ND FLOOR EL. = 10'-0" ROOF EL. = 19'2-4"
4. BF INDICATES WOOD BEAM PER SCHEDULE. BEAMS MARKED AS "BF" ARE TO BE FIRE RATED. SEE EXTRA STIRRUP AND WEBS FOR TYPICAL BEAM BEARING SUPPORTS.
5. H## INDICATES WOOD HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCH SEC TURAL DRAWINGS FOR OPENINGS SIZES AND DETAILS '00/00' AND 3'00/0 FOR STANDARD HEADER CONSTRUCTION.
6. INDICATES THE N UMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN AT THE LOCATION INDICATED. SEE PLAN FOR ADDITIONAL STUDS. PROVIDE AT 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED O THERWISE.
7. SW## INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S0X0 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
8. HDR INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S0X0 FOR HOLDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
9. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
10. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.



FOUNDATION PLAN

1/8" = 1'-0"

SPREAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
TS3.5	3'-6" x 3'-6" x 1'-0" DP.	(4) #5 EA. WAY BOT.

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 1,500 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE THIS REPORT FOR ANY REQUIRED SITE BUILDING PAD PREPARATION PRIOR TO FOUNDATION INSTALLATION. PLANS ON GRADE CONSTRUCTION OVER EXCAVATED MAY BE REQUIRED IN LOCATIONS WHERE FILL MATERIAL IS NOT PROPERLY COMPACTED TO MEET DESIGN SOIL MATERIAL. OVER EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 18 INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTING INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP PER SECTION 3534D. STEP AT A RATIO OF TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTION PER DETAIL 1/S5X0.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPPORTUNITY. CONFIDENCE. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION PLAN AND 2ND FLOOR FRAMING PLAN- BLDG. D

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

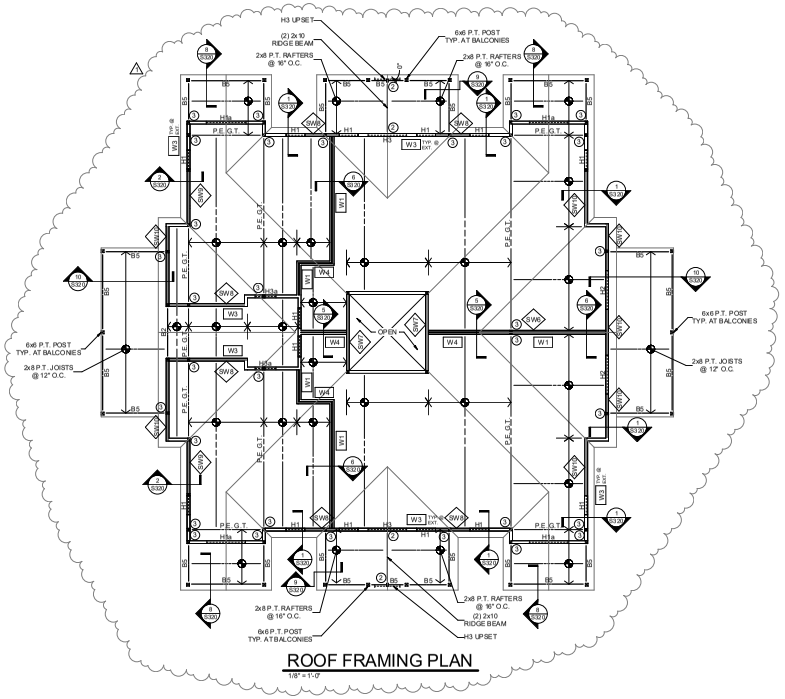
23446

S107-D

CD PROGRESS SET

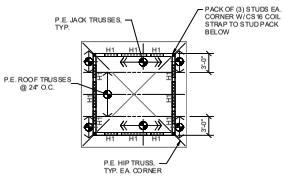
REVIT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:20 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - FOCUS/A 23-001 - CMHA Refugee Rd Hsg. Dvlpmt_R23_Struct.rvt

© 2024 MOODY NOLAN, INC.



ROOF FRAMING PLAN

1/8" = 1'-0"



HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS: SLOPED ROOF LIVE 16PSF
   SLOPED ROOF SNOW 15PSF
   WIND (ASD NET UPLIFT) 16PSF
2. ROOF CONSTRUCTION:
   5/8" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED W.O.D. TRUSSES OR 2x FRAMING UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES IN FILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED AT CONTRACTOR'S OPTION. INFILL FRAMING IS TO UNIFORMLY DISTRIBUTE LOADING TO UNDERLYING ROOF WITH A MAXIMUM SUPPORT SPACING OF 2'-0". DO NOT STICK-BUILD IN IN RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 122'-4" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0"= TOP OF FIRST FLOOR SLAB ON GRADE.
5. BM INDICATES W.O.D. BEAM PER SCHEDULE. SEE DETAILS S302 AND S502 FOR TYPICAL BEAM BEARING SUPPORTS.
6. HM INDICATES W.O.D. HEADER FOR WALL OPENINGS PER SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR OPENING SIZES AND DETAILS S302 AND 2/S502 FOR STANDARD HEADER CONSTRUCTION.
7. (N) 2x6 (E) 2x4 INDICATES THE NUMBER OF 2x IN GOOSTUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR GIRDER BEARING. PROVIDE A MINIMUM OF (3) 2x STUDS AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE.
8. SW# INDICATES W.O.D. PR AMED SHEAR WALL. SEE SHEET S200 FOR WOOD FRAMED SHEAR WALL SCHEDULE AND TYPICAL DETAILS.
9. HDR INDICATES W.O.D. PR AMED SHEAR WALL HOLDDOWN. SEE SHEET S 200 FOR HOLDDOWN SCHEDULE. HOLDOWNS INDICATED ARE TO BE INSTALLED AT THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL'S STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

WALL STUD SCHEDULE

MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO. 1/NO.2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NO RIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE

MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x 10	(1) 2x	(2) 2x	
H3a	(3) 2x 10	(2) 2x	(1) 2x	
H4	(3) 2x 12	(2) 2x	(2) 2x	
H4a	(3) 2x 12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

WOOD BEAM SCHEDULE

MARK	SIZE	REMARKS
B1	(2) 2x8	
B2	(3) 2x6	
B3	(3) 2x8	PT
B4	(3) 2x10	
B5	(3) 2x10	PT
B6	(3) 2x10	PT, SP NO.2
B7	5-1/4" x 9-1/4" PSL	PT, 2.0E
B8	5- 1/4" x 11-7/8" PSL	PT, 2.0E
B9	(3) 1-3/4" x 7-1/4" LVL	
B10	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 E.A. END
B10a	(2) 1-3/4" x 18" LVL	SIMPSON HUC416 ONE END
B10b	(2) 1-3/4" x 18" LVL	SIMPSON HUCQ412-SDS ONE END
B 10c	(2) 1-3/4" x 18" LVL	SIMPSON HGUS 63-SDS ONE END
B11	(3) 1-3/4" x 18" LVL	
B11a	(3) 1-3/4" x 18" LVL	SIMPSON HU616 E.A. EIND
B11b	(3) 1-3/4" x 18" LVL	SIMPSON MGUS 5-SDS ONE END
B12	(4) 1-3/4" x 18" LVL	
B13	(4) 2x10	PT, SP NO.2

WOOD BEAM SCHEDULE NOTES:

1. SEE PLAN FOR COLUMN/SUPPORT POST SIZE.
2. BEAMS SHALL BEAR FULLY ON SUPPORT POSTS WITH POST CAP OR BLOCK ENDS TO RESTRAIN BEAM FROM ROTATION.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR BEAM FRAMING, U.N.O.
4. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

#	DATE	CHANGE DESCRIPTION
1	05/20/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMPASSION. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:

ROOF FRAMING PLAN- BLDG. D

05/01/2025

23446

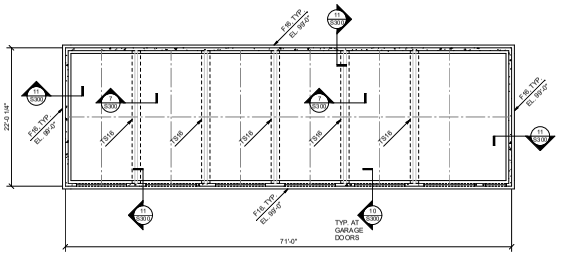
PROGRESS DRAWING NOT FOR CONSTRUCTION

S108-D

C.D PROGRESS SET

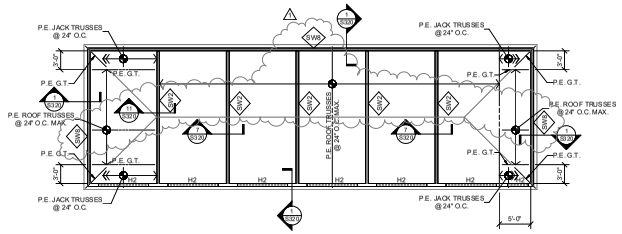
PLOT WORKING: 2023
PRINT DATE: 05/07/2025 1:13:22 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446.00.001_CMHA Refugee Rd Housing Project_R23.rvt

© 2024 MOODY NOLAN, INC.



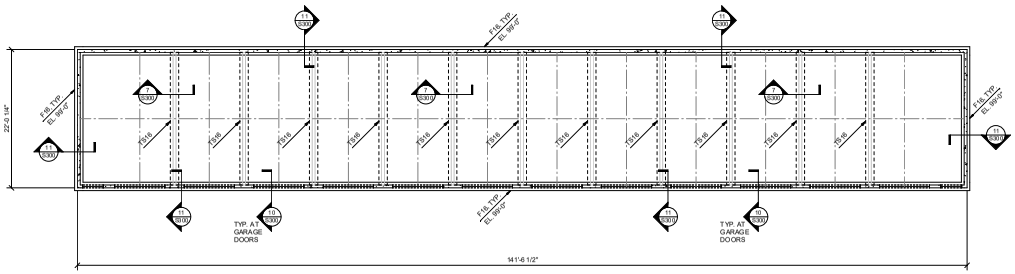
FOUNDATION PLAN - GARAGE G1

1/8" = 1'-0"



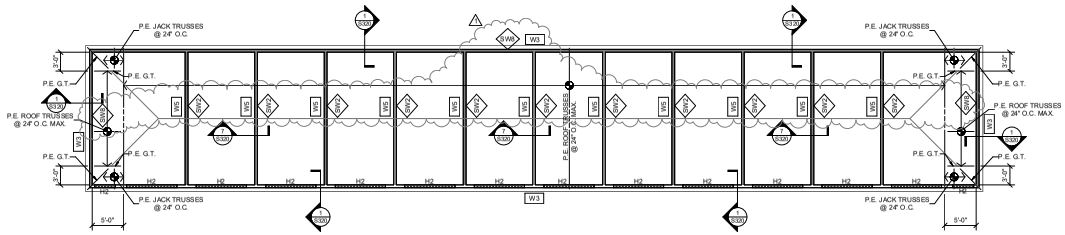
ROOF FRAMING PLAN - GARAGE G1

1/8" = 1'-0"



FOUNDATION PLAN - GARAGE G2

1/8" = 1'-0"



ROOF FRAMING PLAN - GARAGE G2

1/8" = 1'-0"

CONT. WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F16	1'-4" x 2'-4" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 2'-4" DP.	(4) #5 CONT. TOP & BOT.
TS 16	1'-4" x 1'-0" DP.	(2) #5 CONT. BOT.
TS 24	2'-0" x 1'-0" DP.	(3) #5 CONT. BOT.

WALL STUD SCHEDULE			
MARK	FLOOR	STUD SIZE & SPACING	WOOD MATERIAL
W1	3RD FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
	1 ST FLOOR	2 x 4 @ 24" O.C. EA. SIDE	SPF #1/#2
W2	3RD FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2
	2ND FLOOR	2 x 4 @ 12" O.C. EA. SIDE	SPF #1/#2
	1 ST FLOOR	2 x 6 @ 16" O.C. STAGGERED	SPF #1/#2
W3	3RD FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	2ND FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
	1 ST FLOOR	2 x 6 @ 16" O.C.	SPF #1/#2
W4	2ND FLOOR	2 x 4 @ 16" O.C. EA. SIDE	SPF #1/#2

WALL STUD SCHEDULE NOTES:

1. UNLESS NOTED OTHERWISE, STUD MATERIAL GRADE SHALL BE AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
2. 'SPF #1/2' INDICATES SPRUCE-PINE-FIR NO. 1/NO. 2 LUMBER MATERIAL AS GRADED BY N.L.G.A.
3. FRAMING OF ALL STUDS IN MULTI-STORY APPLICATIONS ARE TO ALIGN VERTICALLY WITH EACH OTHER WHERE NORIM BOARD IS PRESENT TO DISTRIBUTE LOADING. SEE STRUCTURAL DETAILS FOR DISTINCTION.
4. 'STAGGERED' STUD WALLS ARE DOUBLE WALLS WITH STUDS OFFSET FROM EACH OTHER AND SPACED AS INDICATED. SEE ARCHITECTURAL U.L. ASSEMBLIES FOR OVERALL WALL THICKNESS.

WOOD HEADER SCHEDULE				
MARK	SIZE	JACK STUDS	KING STUDS	Remarks
H1	(3) 2x6	(1) 2x	(1) 2x	
H1a	(3) 2x6	(1) 2x	(2) 2x	
H2	(3) 2x8	(1) 2x	(2) 2x	
H3	(3) 2x10	(1) 2x	(2) 2x	
H3a	(3) 2x10	(2) 2x	(1) 2x	
H4	(3) 2x12	(2) 2x	(2) 2x	
H4a	(3) 2x12	(2) 2x	(3) 2x	
H5	(3) 1-3/4" x 11-1/2" LVL	(2) 2x	(3) 2x	
H6	(3) 1-3/4" x 14" LVL	(2) 2x	(3) 2x	

HEADER SCHEDULE NOTES:

1. JACK AND KING STUDS SHALL MATCH WALL FRAMING SIZE AND SPECIES OF DESIGNATED STUD WALLS THEY ARE INTEGRAL WITH, U.N.O.
2. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM LUMBER GRADES FOR HEADER FRAMING, U.N.O.
3. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM STRUCTURAL COMPOSITE LUMBER DESIGN VALUES.

ROOF FRAMING NOTES

1. DESIGN LIVE LOADS:
   SLOPED ROOF LIVE 16 PSF
   SLOPED ROOF SNOW 15 PSF
   WIND (ASD NET UPLIFT) 15 PSF
2. ROOF CONSTRUCTION:
   3/4" NOMINAL APA RATED SHEATHING ON PRE-ENGINEERED WOOD TRUSSES OR 2x FRAMING, UNLESS NOTED OTHERWISE, FASTEN SHEATHING TO SUPPORTS AS INDICATED IN THE GENERAL STRUCTURAL NOTES.
3. INDICATES INFILL FRAMING LOCATION. VALLEY SET TRUSSES MAY BE SUBSTITUTED FOR INFILL FRAMING. SEE ARCHITECTURAL ROOF PLAN FOR ROOF SLOPE DIRECTIONS. TO UNDERLYING ROOF WITH A MINIMUM SUPPORT SPACING OF 2.0'. DO NOT STACK-BUILD WITH RIDGE BEAM AND RAFTERS.
4. TRUSS BEARING ELEVATION = 108'-1 ½" UNLESS NOTED OTHERWISE. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
5. BW INDICATES WOOD BEAM PER SCHEDULE. SEE DETAILS 7/S102 AND 8/S002 FOR TYPICAL BEAM BEARING SUPPORTS.
6. HW INDICATES WOOD HEADER FOR WALL OPENING PER HEADER SCHEDULE. SEE DETAILS 7/S102 AND 8/S002 FOR TYPICAL HEADER SUPPORTS AND DETAILS 1/S002 AND 3/S002 FOR STANDARD HEADER CONSTRUCTION.
7. INDICATES THE NUMBER OF 2x WOOD STUDS REQUIRED TO CREATE A STUD COLUMN SUPPORT UNDER BEAM OR LINTEL BEARING. PROVIDE A MINIMUM OF (2) 2x 8 TO(3) AT ALL BEAMS AND GIRDER TRUSSES, UNLESS NOTED OTHERWISE
8. SW # INDICATES WOOD FRAMED SHEARWALL. SEE SHEET S002 FOR WOOD FRAMED SHEARWALL SCHEDULE AND TYPICAL DETAILS.
9. HDW INDICATES WOOD FRAMED SHEARWALL HOLDOWN. SEE SHEET S002 FOR HOLDOWN SCHEDULE AND TYPICAL DETAILS. PROVIDE CONTINUOUS LOAD PATH FROM THE BASE OF WALL FRAMING SUPPORTING THIS PLAN LEVEL STRUCTURE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

FOUNDATION NOTES

1. DESIGN SOIL BEARING PRESSURE = 3,000 PSF. SEE S001 FOR REFERENCE SOILS REPORT INFORMATION. REFERENCE SOILS REPORT FROM JAVINO SERVICES. SOILS FILL PREPARATION AND COMPACTION REQUIREMENTS: ALL FILL UNDER SLABS ON GRADE AND FOOTINGS SHALL BE PLACED TO EXTEND THROUGH EXISTING FILL OR LOOSE IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE, UP TO THE PLANNED BOTTOM OF FOOTING ELEVATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATION STRIES OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 30 INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
4. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. ▼ INDICATES FOOTING STEP. PER SECTION 2/S003. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
6. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 1/S1003.
7. SEE SHEET S001 FOR GENERAL STRUCTURAL INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:
FOUNDATION AND ROOF FRAMING PLAN - GARAGE

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

S109-G

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:25 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/04 S1.dwt - CMHA Refugee Rd Apts - Sheet (R23).rvt

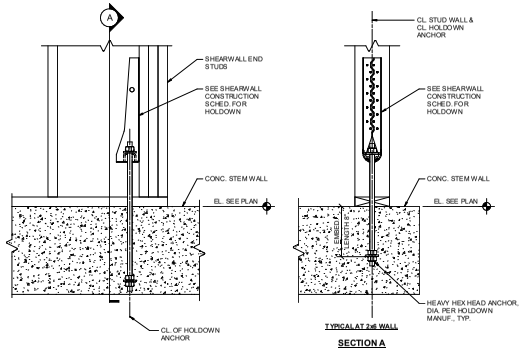
© 2024 MOODY NOLAN, INC.

SHEAR WALL SCHEDULE

MARK	LEVEL	SHEATHING PANEL	PANEL APPLICATION	SHEATHING PANEL FASTENING			HOLDOWN	SOLE PLATE ANCHORAGE	ADDITIONAL REQUIREMENTS
				FASTENER	PANEL EDGES	PANEL FIELD			
SW1	3RD FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	16d NAILS @ 6" O.C.	
	2ND FLOOR	5/8" GYPSUM	ONE SIDE	6d	4" O.C.	4" O.C.	NONE	(2) 16d NAILS @ 6" O.C.	
		7/16" OSB	ONE SIDE	8d	6" O.C.	12" O.C.			
	1ST FLOOR	5/8" GYPSUM	ONE SIDE	6d	4" O.C.	4" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
		7/16" OSB	ONE SIDE	8d	4" O.C.	12" O.C.			
SW2	3RD FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	16d NAILS @ 12" O.C.	
	2ND FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	16d NAILS @ 6" O.C.	
	1ST FLOOR	5/8" GYPSUM	EACH SIDE	6d	7" O.C.	7" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
SW3	3RD FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	16d NAILS @ 16" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	16d NAILS @ 8" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
SW4	3RD FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMST16	16d NAILS @ 12" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMST16	16d NAILS @ 6" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	HDU8S-SDS2.5	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
SW5	3RD FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMST16	16d NAILS @ 12" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	4" O.C.	4" O.C.			
	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CMST16	16d NAILS @ 6" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	4" O.C.	4" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	HDU8-SDS2.5	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	4" O.C.	4" O.C.			
SW6	2ND FLOOR	5/8" GYPSUM	EACH SIDE	8d	7" O.C.	7" O.C.	NONE	16d NAILS @ 8" O.C.	
	1ST FLOOR	5/8" GYPSUM	EACH SIDE	8d	7" O.C.	7" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
SW7	2ND FLOOR	5/8" GYPSUM	EACH SIDE	8d	7" O.C.	7" O.C.	CS16	16d NAILS @ 8" O.C.	
	1ST FLOOR	5/8" GYPSUM	EACH SIDE	8d	7" O.C.	7" O.C.	DTT2Z	1/2" Ø X 5 1/2" LG TITEN HD @ 24" O.C.	
SW8	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	16d NAILS @ 12" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
SW9	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	NONE	16d NAILS @ 12" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	DTT2Z	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
SW 10	2ND FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	CS16	16d NAILS @ 12" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			
	1ST FLOOR	1" ZIP	ONE SIDE	10d	4" O.C.	12" O.C.	DTT2Z	1/2" Ø X 5 1/2" LG TITEN HD @ 32" O.C.	
		5/8" GYPSUM	ONE SIDE	8d	7" O.C.	7" O.C.			

SHEARWALL SCHEDULE NOTES:

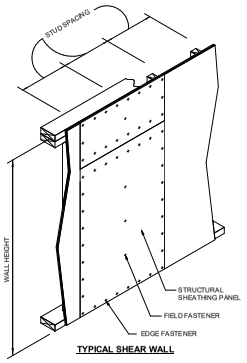
1. APA RATED SHEATHING INCLUDES PLYWOOD OR ORIENTED STRAND BOARD (OSB) MATERIALS AS RATED BY THE AMERICAN PLYWOOD ASSOCIATION (APA).
2. ALL PANEL EDGES SHALL BE LOCATED ON STUDS, BLOCKING, BLOCKING LAID FLATWAYS AGAINST SHEATHING, PLATES, OR RIM BOARD.
3. FASTENER SUBSTITUTIONS ARE NOT PERMITTED, UNLESS APPROVED ENGINEER REVIEW IS COMPLETED AT CONTRACTOR'S EXPENSE.
4. PROVIDE SIMPSON SP810-3 PLATE WASHERS AT ALL SILL PLATE ANCHORS ATTACHING BOTTOM OF SHEARWALL TO FOUNDATION OR CONCRETE SLAB. NEAREST EDGE OF PLATE WASHERS SHALL BE LOCATED NO FARTHER THAN 1/2-INCH FROM INSIDE FACE OF SHEAR WALL SHEATHING.
5. "BOUNDARY END STUDS" ARE STUD PACKS OR POSTS LOCATED AT THE EACH END OF SHEARWALLS. STUDS AND POSTS SHALL BE OF SAME SIZE AND MATERIAL AS THE WALL THEY ARE INTEGRAL WITH; POST DEPTH SHALL MATCH STUD DEPTH AND WIDTH SHALL BE AS INDICATED IN SCHEDULE. SEE GENERAL STRUCTURAL NOTES FOR MINIMUM "PSL" MATERIAL STANDARDS. PROVIDE A MINIMUM OF 2 BOUNDARY STUDS EACH END OF SHEARWALL UNLESS NOTED IN "ADDITIONAL COMMENTS" COLUMN.
6. ALL HOLDOWNS AND SOLE PLATE ANCHORS INDICATED (OTHER THAN NAILS) ARE MANUFACTURED BY SIMPSON STRONG-TIE. FOLLOW ALL MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. HOLDOWNS INDICATED ARE APPLIED TO THE BASE OF LEVEL INDICATED AND HOLDOWNS INDICATED AT THE BASE OF UPPER FLOORS SHALL BE TIED THROUGH FLOOR FRAMING TO THE TOP OF THE SHEARWALL BELOW AS INDICATED IN DETAILS 1 THROUGH 4 ON THIS SHEET.
7. COORDINATE SOLE PLATE ANCHORAGES WITH TYPICAL CONSTRUCTION DETAILS INDICATED THROUGHOUT STRUCTURAL DRAWINGS.
8. ALL SHEARWALL TOP PLATES MUST BE A MINIMUM OF TWO IN NUMBER, HAVE STAGGERED SPLICED LOCATIONS, AND OCCUR OVER STUD LOCATIONS. SEE STRUCTURAL DETAILS FOR TRIPLE TOP PLATE REQUIREMENTS, IF ANY. SEE 6S2.00 FOR TYPICAL TOP PLATE SPLICING DETAIL.
9. CAST-IN-PLACE (CIP) ANCHORS SHALL BE EMBEDDED IN CONCRETE A MINIMUM OF 6".
10. "**" INDICATES 4 STORY END OF SHEAR WALL, "#" INDICATES 3 STORY END OF SHEAR WALL.
11. FOR GYPSUM WALL SHEATHING, #8 DRYWALL SCREWS MAY BE SUBSTITUTED IN LIEU OF NAILING AT SAME PATTERN.



TYPICAL AT 2x6 WALL

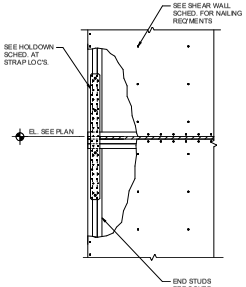
SECTION A

SECTION 1 — 1 1/2" = 1'-0"



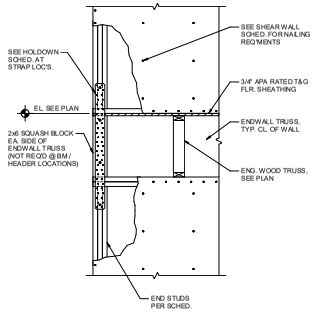
TYPICAL SHEAR WALL

SECTION 2 — 3/4" = 1'-0"



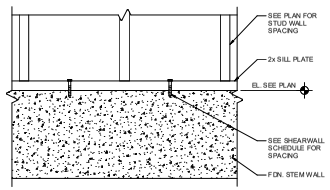
TYPICAL SHEARWALL HOLD DOWN AT FULL HEIGHT WALL

SECTION 3 — 3/4" = 1'-0"

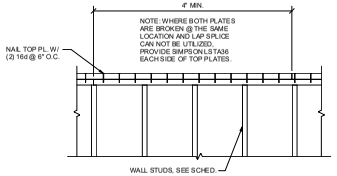


TYPICAL SHEARWALL HOLD-DOWN AT BEARING WALL

SECTION 4 — 3/4" = 1'-0"



SECTION 5 — 1 1/2" = 1'-0"



TYPICAL SHEARWALL-TOP PLATE SPLICE

SECTION 6 — 3/4" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614.461.4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

SHEAR WALL SCHEDULE AND DETAILS

05/01/2025

23446

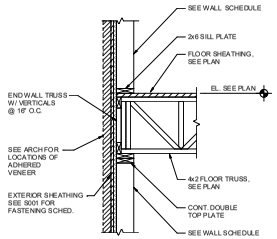
PROGRESS DRAWING NOT FOR CONSTRUCTION

S200

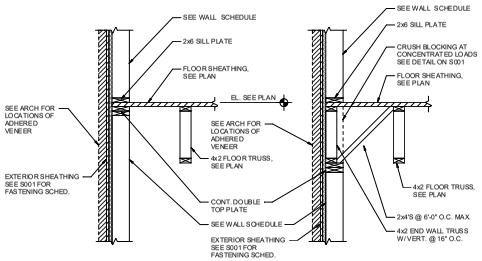
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:25 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/04 S1.dwt - CMHA Refugee Rd Housing Dvlpmnt - 2023/04 S1 - Sheet Plot.rtb

© 2024 MOODY NOLAN, INC.

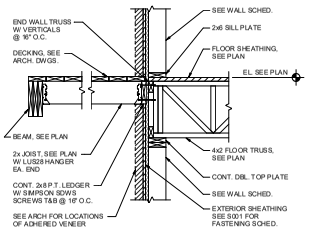


SECTION 1 — 3/4" = 1'-0"

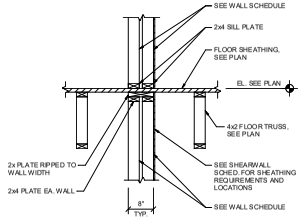


AT CONTRACTORS OPTION

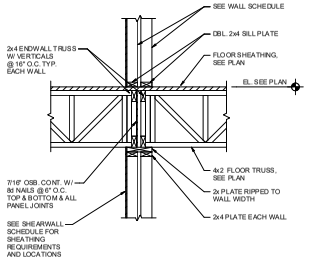
SECTION 2 — 3/4" = 1'-0"



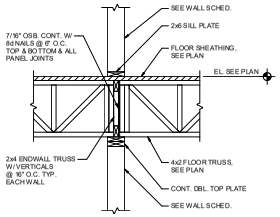
SECTION 3 — 3/4" = 1'-0"



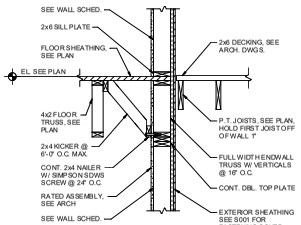
SECTION 4 — 3/4" = 1'-0"



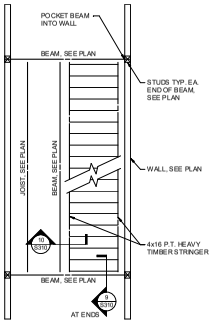
SECTION 5 — 3/4" = 1'-0"



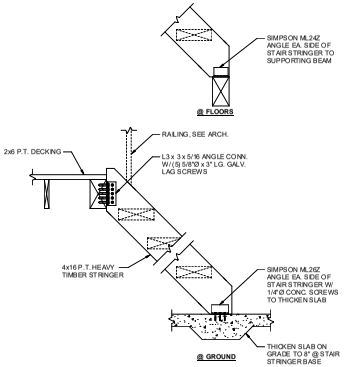
SECTION 6 — 3/4" = 1'-0"



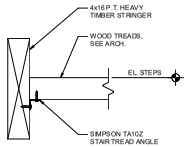
SECTION 7 — 3/4" = 1'-0"

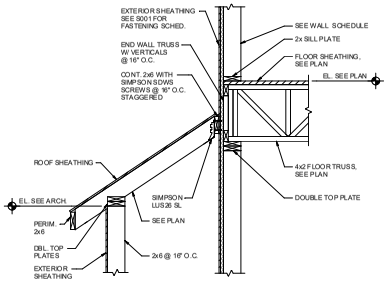


SECTION 8 — 1/4" = 1'-0"

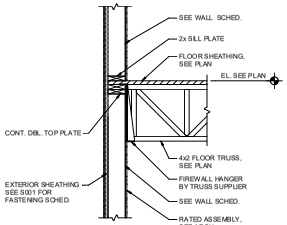


SECTION 9 — 3/4" = 1'-0"

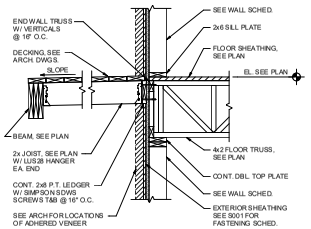




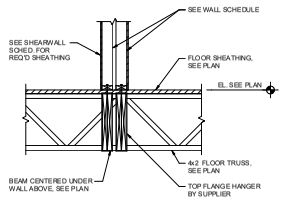
SECTION 10 — 1 1/2" = 1'-0"



SECTION 11 — 3/4" = 1'-0"

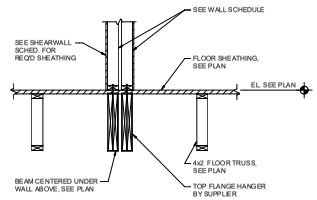


SECTION 12 — 3/4" = 1'-0"

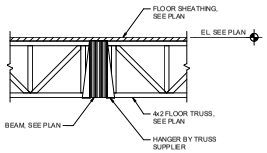


SECTION 13 — 3/4" = 1'-0"

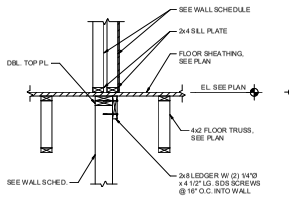
SECTION 14 — 3/4" = 1'-0"



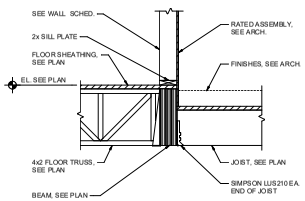
SECTION 15 — 3/4" = 1'-0"



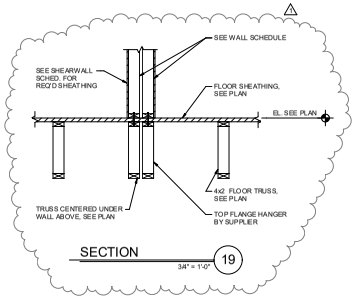
SECTION 16 — 3/4" = 1'-0"



SECTION 17 — 3/4" = 1'-0"



SECTION 18 — 3/4" = 1'-0"



SECTION 19 — 3/4" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM #01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

CMHA REFUGEE ROAD HOUSING DEVELOPMENT
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:

FRAMING DETAILS

05/01/2025

23446

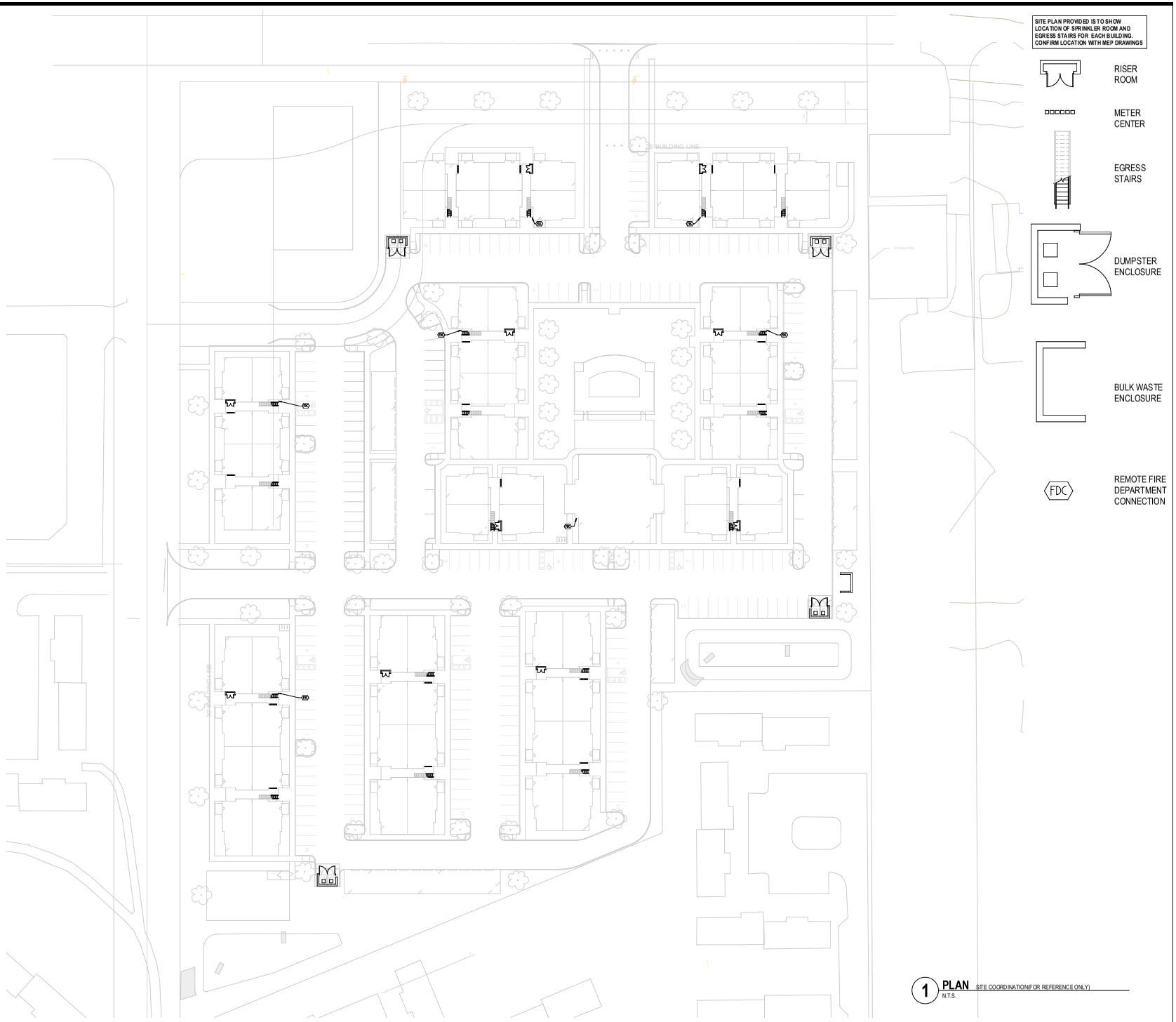
S310

PROGRESS DRAWING NOT FOR CONSTRUCTION

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/30/2025 1:13:27 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmnt - 2023/04.S/S001 - CMHA Refugee Rd Apts_Struct R23.rvt

© 2025 MOODY NOLAN INC.



SITE PLAN PROVIDED IS TO SHOW LOCATION OF SPRINKLER ROOM AND EGRESS STAIRS FOR EACH BUILDING. CONFIRM LOCATION WITH MEP DRAWINGS

RISER ROOM

METER CENTER

EGRESS STAIRS

DUMPSTER ENCLOSURE

BULK WASTE ENCLOSURE

FDC

REMOTE FIRE DEPARTMENT CONNECTION

1 **PLAN** SITE COORDINATION(FOR REFERENCE ONLY)
N.T.S.

GENERAL NOTES - SITE PLAN

1. X

KEYNOTE LEGEND

#	DATE	CHANGE DESCRIPTION
1	09/11/25	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ARCHITECTURAL SITE PLAN

05/01/2025

23446

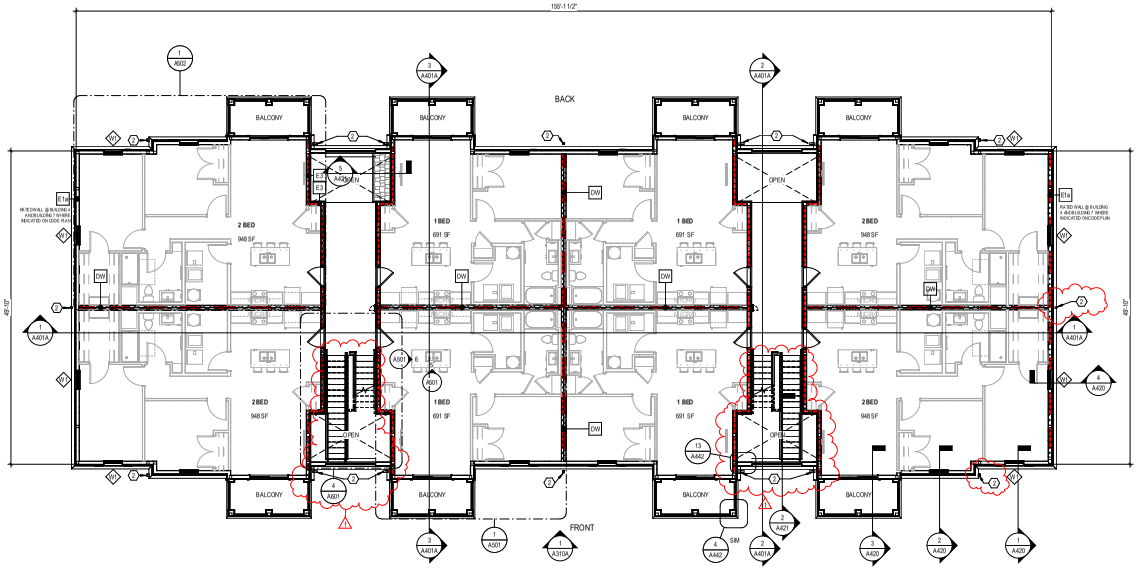
PROGRESS DRAWING NOT FOR CONSTRUCTION

A001

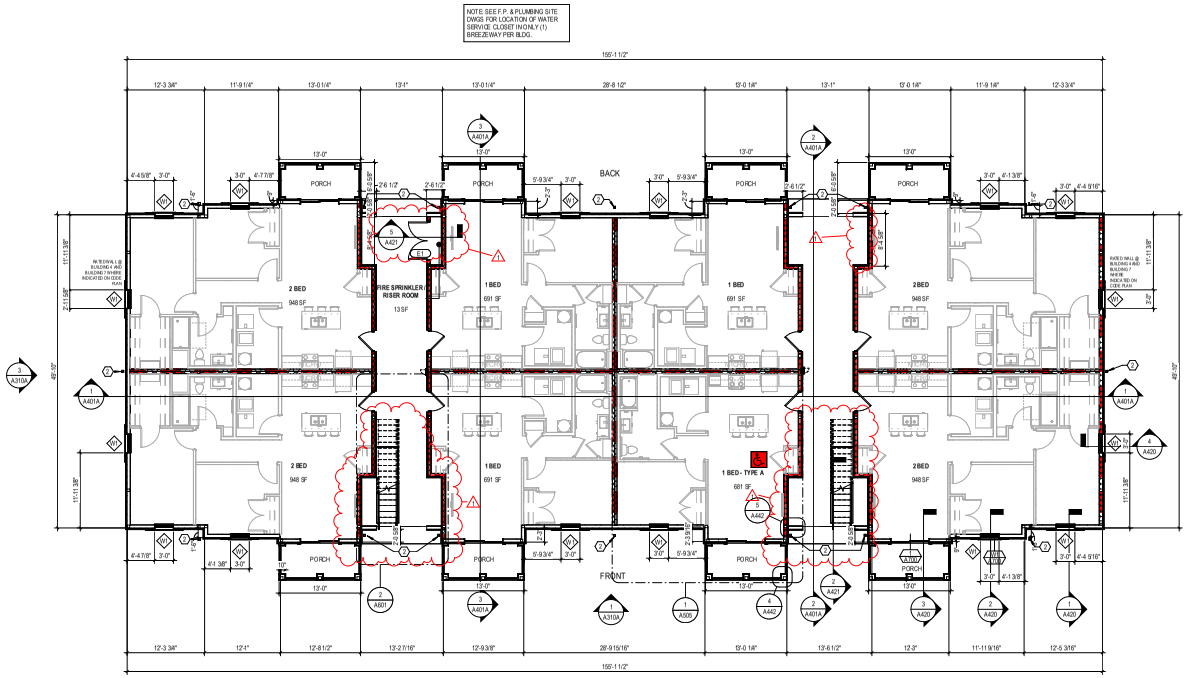
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 9/11/2025 2:23:20 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dwlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.



2 PLAN — LEVEL 02 - FLOOR PLAN - BUILDING A
1/8" = 1'-0"



1 PLAN — LEVEL 01 - FLOOR PLAN - BUILDING A
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

E. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4"T HICK W/ WWF., UNLESS NOTED OTHERWISE.)

(X) CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

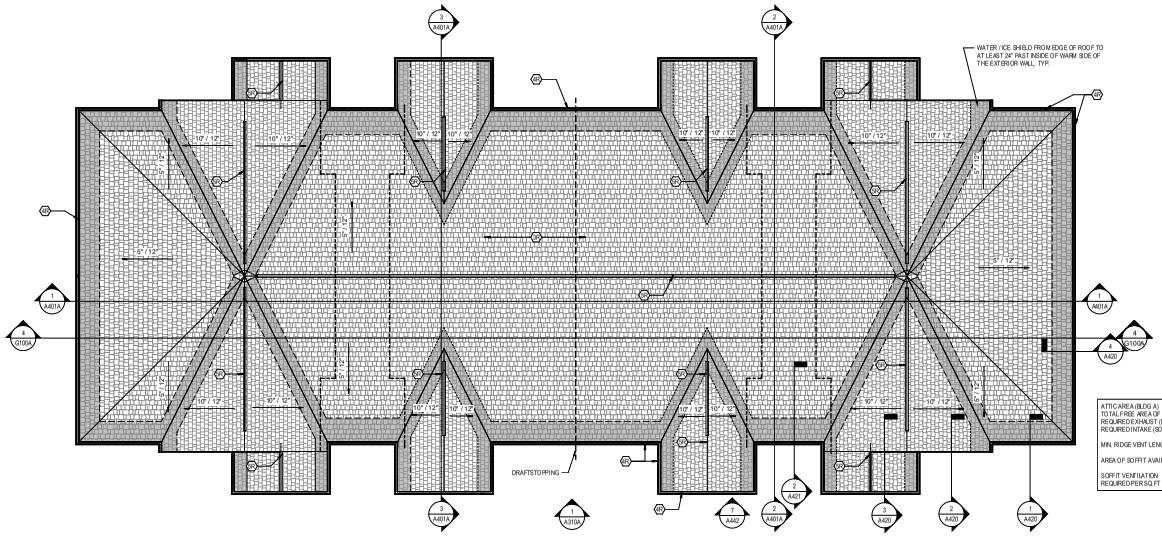
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02 FLOOR PLANS

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A101A
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:22:25 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Dwgs/_R23_CMHA Refugee Rd Housing_CENTRAL_R23.rvt

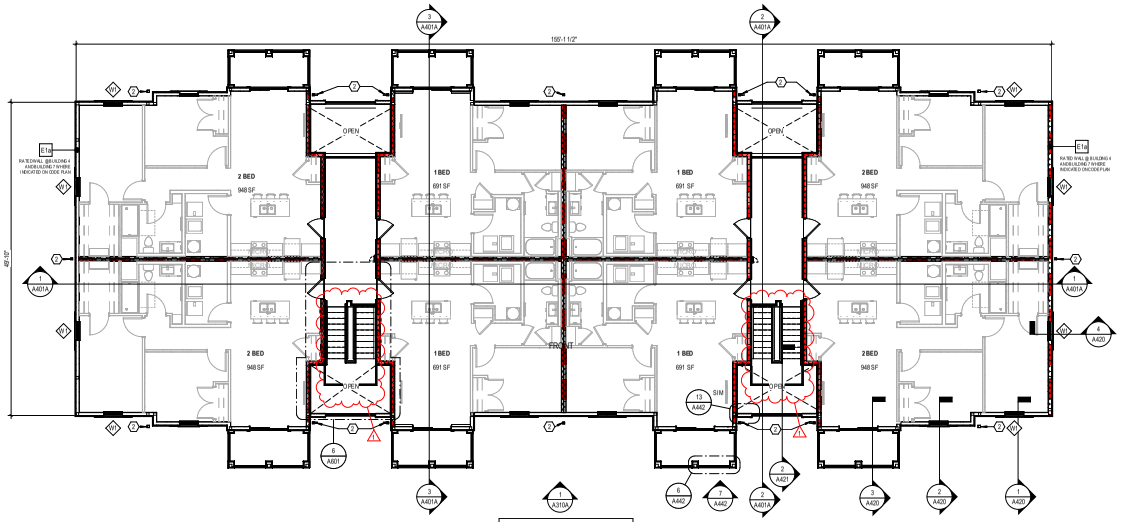
© 2025 MOODY NOLAN, INC.



ATTIC AREA (BLDG A)	8,554 SF
TOTAL FREE AREA OF VENTILATION	8,554 / 150 = 57.03 SF OR 8,212 SI
REQUIRED EXHAUST (RIDGE VENT)	8,212 / 2 = 4,106 SI
REQUIRED INTAKE (SOFFIT)	8,212 / 2 = 4,106 SI
MIN. RIDGE VENT LENGTH	4,106 / 18 SI PER FT = 228 FT (239 FT AVAILABLE)
AREA OF SOFFIT AVAILABLE	352 LINEAR FT X 1'3" SOFFIT DEPTH = 440 SF
SOFFIT VENTILATION REQUIRED PER SQ.FT.	4,106 / 440 = 9.3 SI / FT

2 PLAN — ROOF PLAN - BUILDING A
1/8" = 1'-0"

BACK



SEE 1ST FL PLAN FOR DIMENSIONS

1 PLAN — LEVEL 03 - OVERALL PLAN - BUILDING A
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

E. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W.W.W.F., UNLESS NOTED OTHERWISE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/8" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN. TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTIC VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPPORTUNITY. CONFIDENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

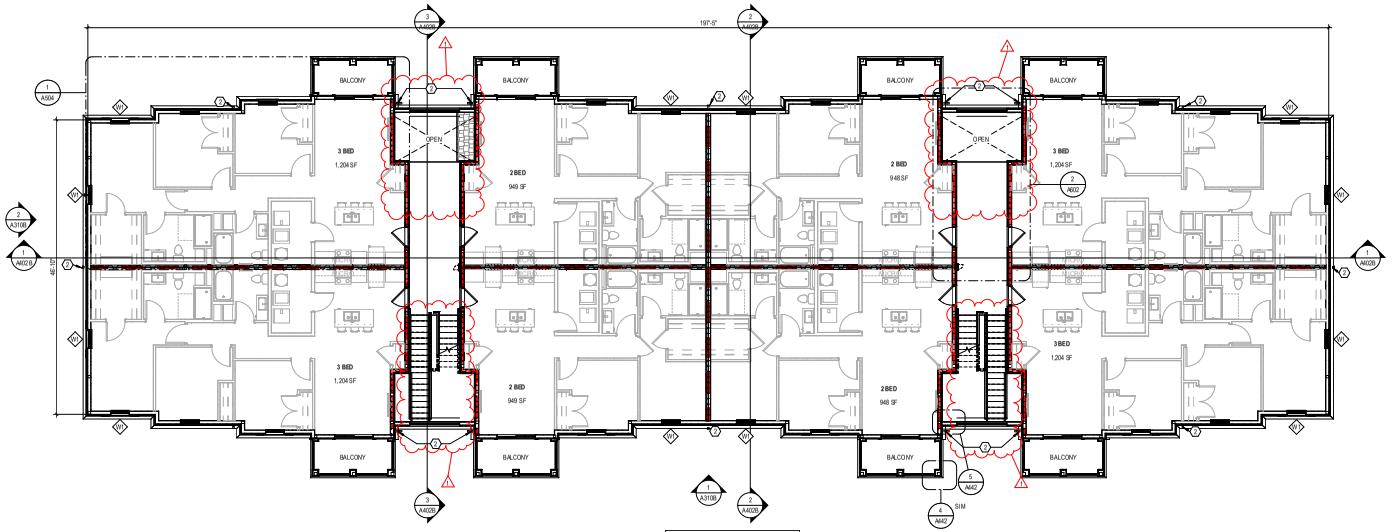
DRAWING TITLE:

BUILDING A - LEVEL 03 / ROOF PLAN

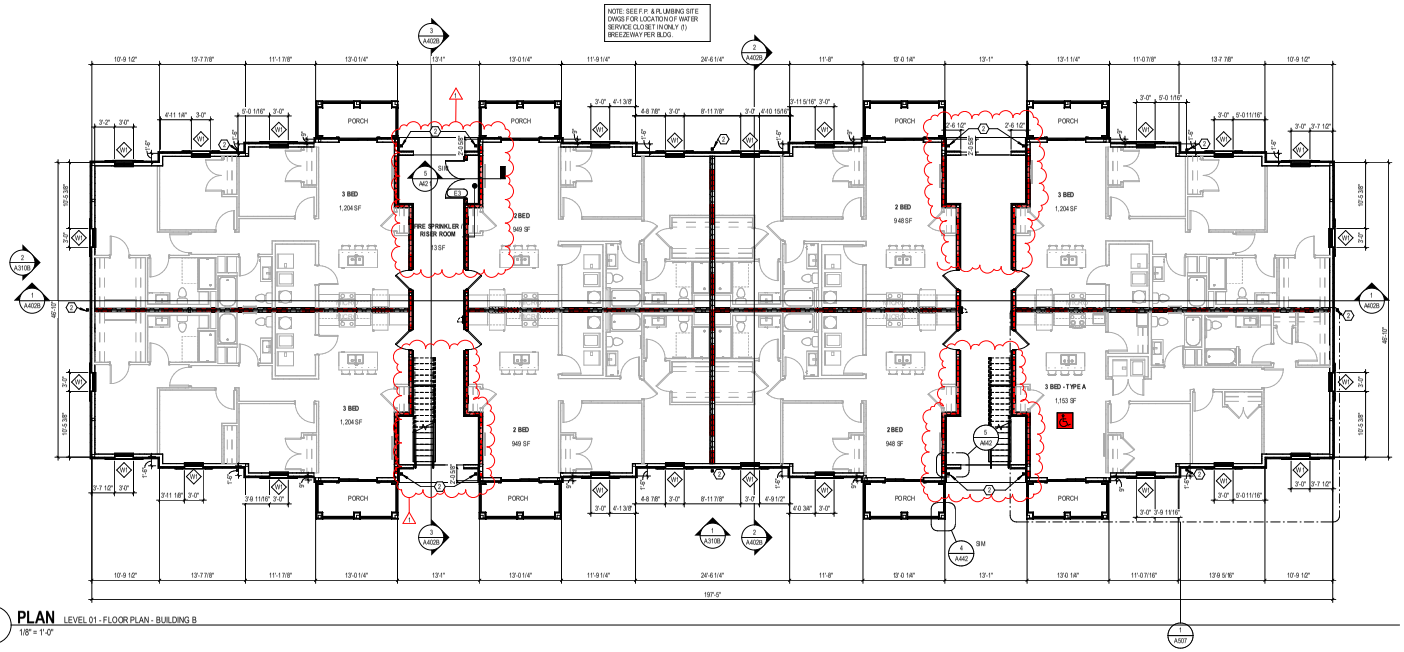
	05/01/2025
	23446
PROGRESS DRAWING NOT FOR CONSTRUCTION	**A102A**
	CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:30 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23_v2024.rvt

© 2025 MOODY NOLAN, INC.



2 PLAN LEVEL 02 - FLOOR PLAN - BUILDING B
1/8" = 1'-0"



1 PLAN LEVEL 01 - FLOOR PLAN - BUILDING B
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

E. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4"T HICK W/ W.W.F., UNLESS NOTED OTHERWISE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

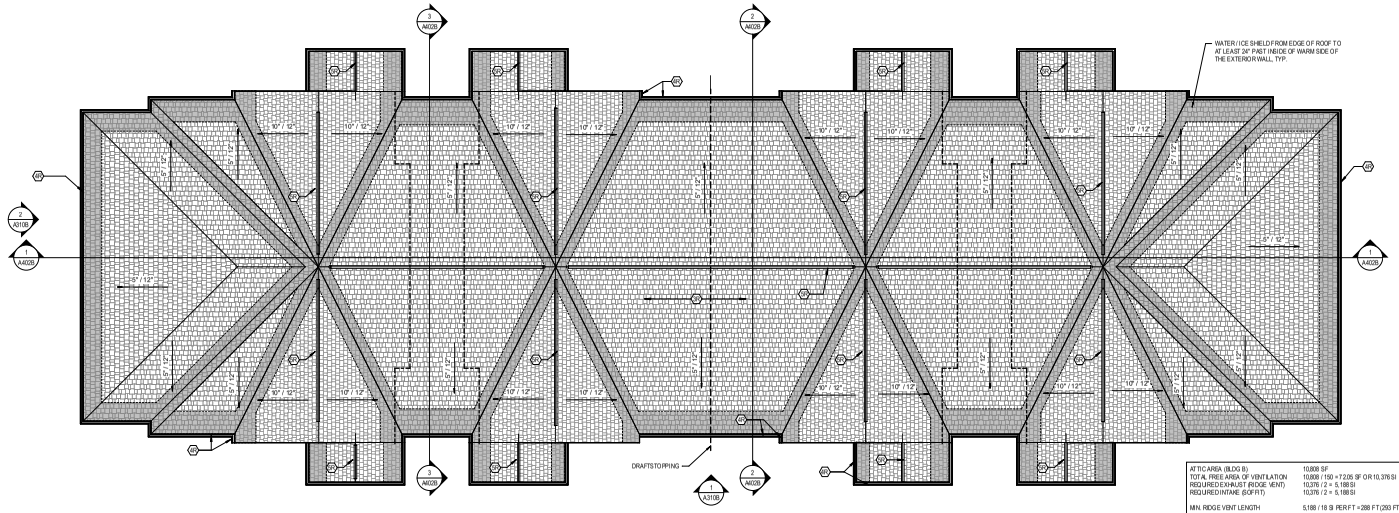
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 FLOOR PLANS

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A103B
CD PROGRESS SET

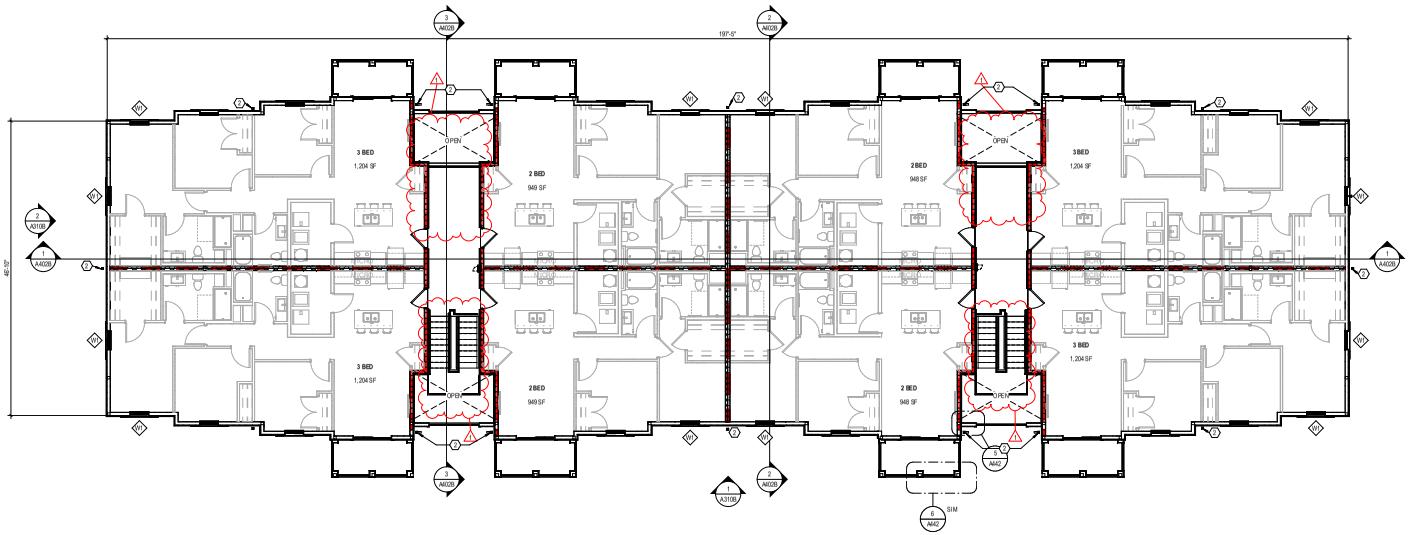
REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:25:37 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - 2023/23446_CMHA Refugee Rd Housing_R23.rvt

© 2025 MOODY NOLAN, INC.



ATTIC AREA (BLDG B)	10,808 SF
TOTAL FREE AREA OF VENTILATION	10,808 / 150 = 72.05 SF OR 10,376 SI
REQUIRED EXHAUST (RIDGE VENT)	10,376 / 2 = 5,188 SI
REQUIRED INTAKE (SOFFIT)	10,376 / 2 = 5,188 SI
MIN. RIDGE VENT LENGTH	5,188 / 18 SI PER FT = 288 FT (293 FT AVAILABLE)
AREA OF SOFFIT AVAILABLE	469 LINEAR FT X 1'-3" SOFFIT DEPTH = 586 SF
SOFFIT VENTILATION REQUIRED PER SQ.FT	5,188 / 586 = 8.9 SI / FT

2 PLAN — ROOF PLAN - BUILDING B
1/8" = 1'-0"



SEE 1ST FL PLAN FOR DIMENSIONS

1 PLAN — LEVEL 03 - FLOOR PLAN - BUILDING B
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

E. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4"THICK W.W.W.F., UNLESS NOTED OTHERWISE).

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/8" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS
- PROVIDE RO OF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE RO OF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR RO OF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

CODED NOTE LEGEND - ROOF PLAN

1R. TPO RO OF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. RO OF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN. TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER RO OF UNDERLAYMENT. PROVIDE ICE & WATER SHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. RO OF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTIC VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING B - LEVEL 03 & ROOF PLANS

05/01/2025

23446

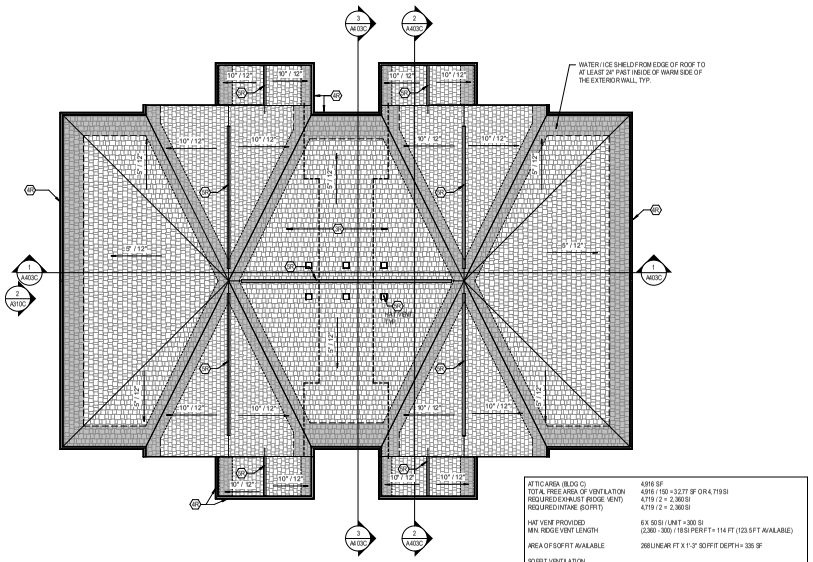
PROGRESS DRAWING NOT FOR CONSTRUCTION

A104B

CD PROGRESS SET

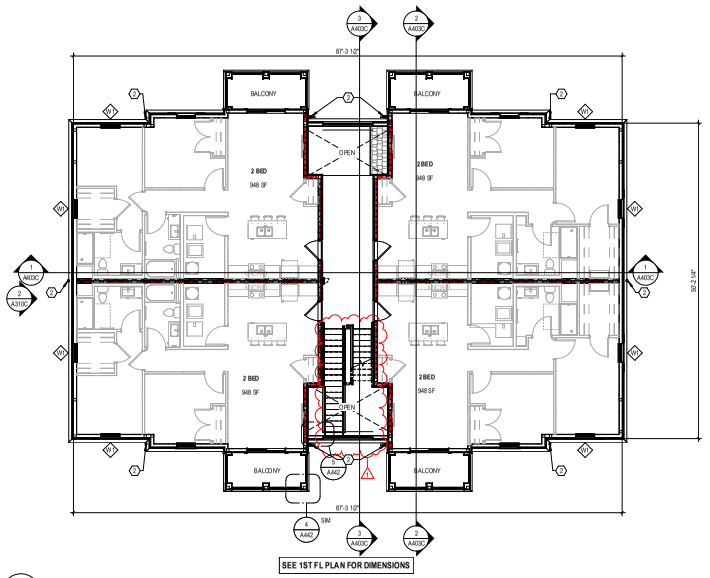
PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:43 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23.rvt

© 2025 MOODY NOLAN, INC.

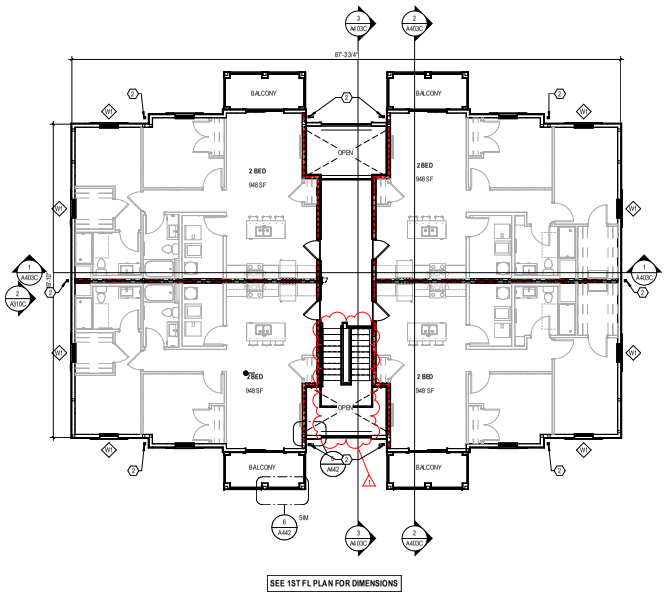


ATTIC AREA (BLDG C)	4,916 SF
TOTAL FREE AREA OF VENTILATION	4,916 / 150 = 32.77 SF OR 4,719 SI
REQUIRED EXHAUST (RIDGE VENT)	4,719 / 2 = 2,360 SI
REQUIRED INTAKE (SOFFIT)	4,719 / 2 = 2,360 SI
HAT VENT PROVIDED	6 X 50 SI / UNIT = 300 SI
MIN. RIDGE VENT LENGTH	(2,360 - 300) / 18 SI PER FT = 114 FT (123.5 FT AVAILABLE)
AREA OF SOFFIT AVAILABLE	268 LINEAR FT X 1'-3" SOFFIT DEPTH = 335 SF
SQ FT VENTILATION REQUIRED PER SQ FT	2,360 / 335 = 7 SI / FT

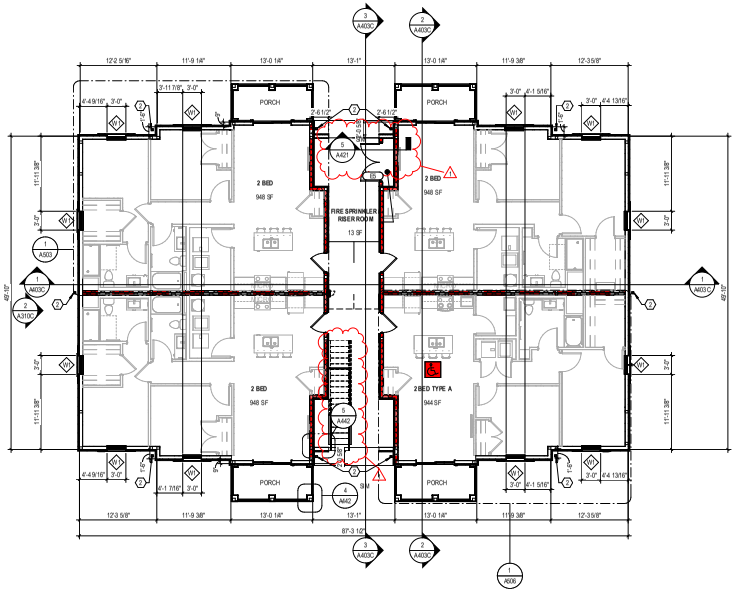
4 PLAN ROOF PLAN - BUILDING C
1/8" = 1'-0"



2 PLAN LEVEL 02 - FLOR PLAN - BUILDING C
1/8" = 1'-0"



3 PLAN LEVEL 03 - FLOR PLAN - BUILDING C
1/8" = 1'-0"



1 PLAN LEVEL 01 - FLOR PLAN - BUILDING C
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

A. ALL EXT. DIMENSIONS ARE TO FACE OF STUD WALL (UNLESS NOTED OTHERWISE). INTERIOR DIMENSIONS TO FACE OF FINISH WALL.

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

D. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

E. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4" THICK W / W.W.F., UNLESS NOTED OTHERWISE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS. DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTIC VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

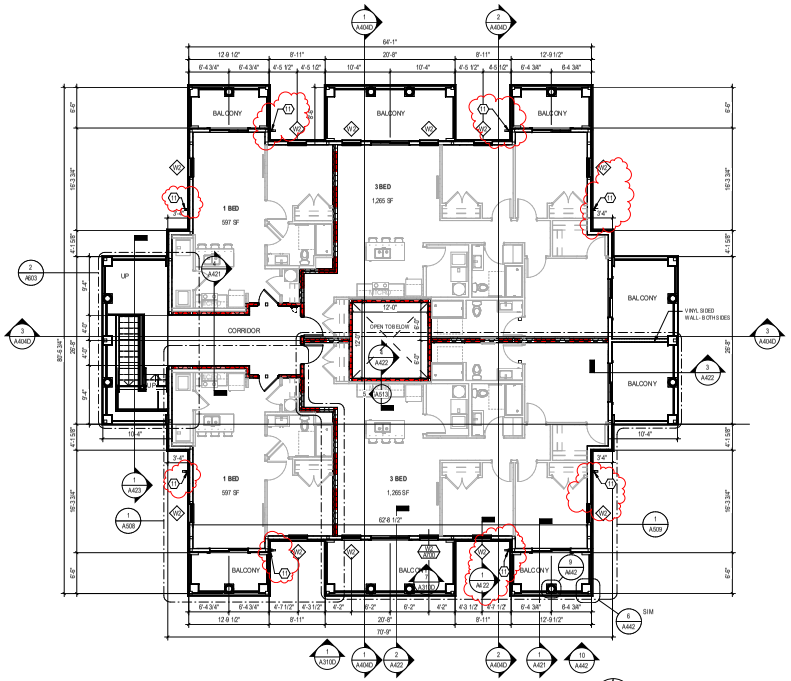
DRAWING TITLE:
BUILDING C - LEVEL 01, 02, 03 FLOOR / ROOF PLANS

05/01/2025
23446
A105C
CD PROGRESS SET

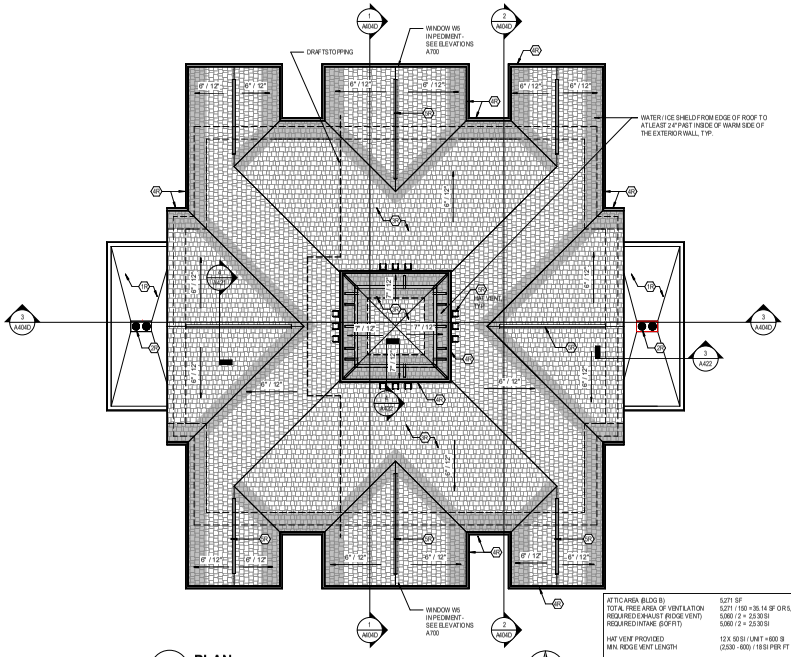
PROGRESS DRAWING NOT FOR CONSTRUCTION

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:48 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Design/_R23_23446_CMHA Refugee Rd Housing_detach_R23.rvt

© 2025 MOODY NOLAN, INC.

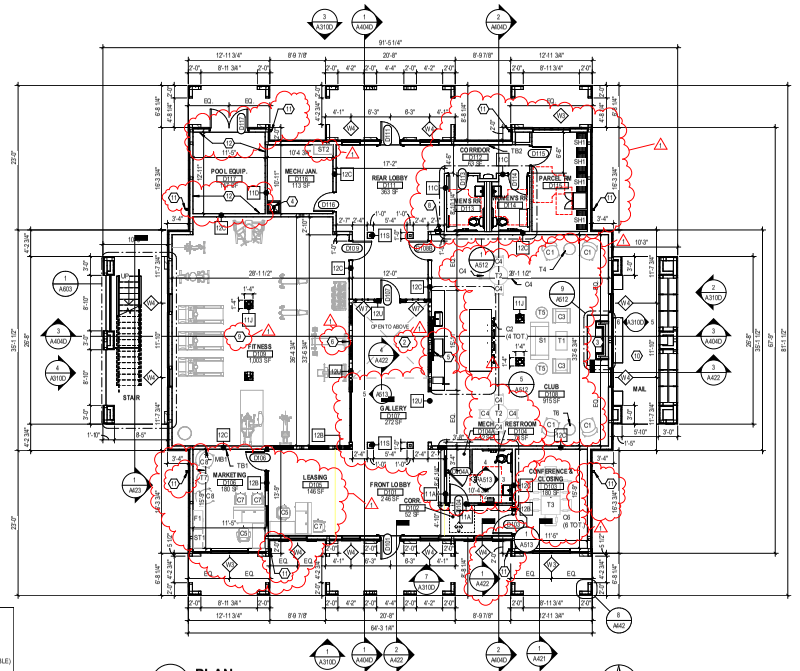


2 PLAN LEVEL 02 - FLOOR PLAN - BUILDING D - CLUBHOUSE
1/8" = 1'-0"



3 PLAN ROOF PLAN - BUILDING D - CLUBHOUSE
1/8" = 1'-0"

ATTIC AREA (BLDG B)	
TOTAL FREE AREA OF VENTILATION	5,271 SF
REQUIRED EXHAUST (RIDGE VENT)	5,060 / 2 = 2,530 SI
REQUIRED INTAKE (SOFFIT)	5,060 / 2 = 2,530 SI
HAT VENT PROVIDED	12 X 50 SI / UNIT = 600 SI
MIN. RIDGE VENT LENGTH	(2,530 - 600) / 18 SI PER FT = 107 FT (117 SF AVAILABLE)
AREA OF SOFFIT AVAILABLE	379 LINEAR FT X 1'-3" SOFFIT DEPTH = 474 SF
SOFFIT VENTILATION REQUIRED PER SQ FT	2,530 / 474 = 5.3 SI / FT



1 PLAN LEVEL 01 - FLOOR PLAN - BUILDING D - CLUBHOUSE
1/8" = 1'-0"

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

ⓧ CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT. PROVIDE ICE & WATERSHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTIC VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE)

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

D. ALL EGRESS DOORS SHALL COMPLY WITH CURRENT OHIO BUILDING CODE, NFPA, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.

E. OFFSET STUDS AND/ OR SHIM AS REQUIRED TO ALIGN FINISH MATERIALS.

F. CONTRACTOR TO PROVIDE BLOCKING IN WALLS AT LOCATIONS OF ALL WALL-MOUNTED CASEWORK, MILLWORK, FIXTURES AND EQUIPMENT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

G. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO INSTALLING ALL COUNTERTOPS, CASEWORK, MILLWORK AND EQUIPMENT.

H. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

J. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. 4"T HICK W/ WWF., UNLESS NOTED OTHERWISE.)

ⓧ CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. CUPOLA ABOVE.
3. PRE-MANUFACTURED VENT-FREE GAS FIRE PLACE, PER MANUFACTURER'S SPECIFICATIONS (BASED ON AIR-BAN AVRL42 BY MONESEN).
4. MOP SINK - REFER TO PLUMBING DRAWINGS.
5. LCD TV DISPLAY - COORDINATE MOUNTING HEIGHT WITH OWNER
6. PANELIZED WALL MIRROR - COORDINATE SIZE AND MOUNTING HEIGHT WITH OWNER. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MOUNTING REQUIREMENTS.
7. WHITE BOARD - COORDINATE SIZE AND MOUNTING HEIGHT WITH OWNER. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MOUNTING REQUIREMENTS.
8. SEMI-RECESSED FIRE EXTINGUISHER CABINET.
9. FITNESS EQUIPMENT BY OWNER - SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS.
10. WALL-MOUNTED CLUSTER BOX UNITS, SEE ELEVATIONS FOR TYPE
11. DOWNSPOUT
12. PROVIDE MOLD & MOISTURE RESISTANT GWB ON INTERIOR SIDE OF POD ROOM

RATED WALL LEGEND

- 1 HOUR RATED FIRE PARTITION
- INSULATED 1 HOUR RATED FIRE BARRIER
- INSULATED 1 HOUR RATED BEARING WALL
- INSULATED 1 HOUR RATED BEARING WALL / FIRE BARRIER

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3395 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
CLUBHOUSE - FLOOR & ROOF PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

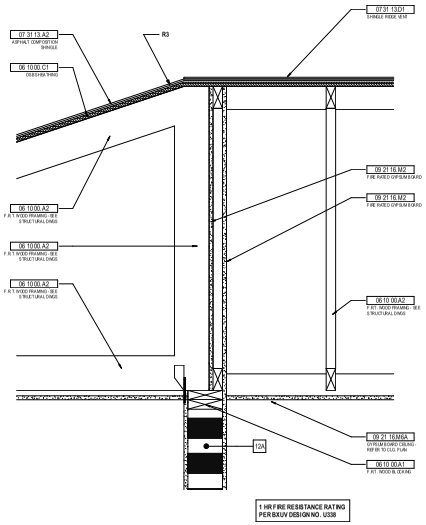
23446

A106D

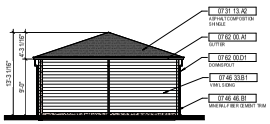
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:25:54 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

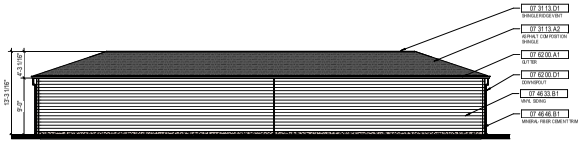
© 2025 MOODY NOLAN INC.



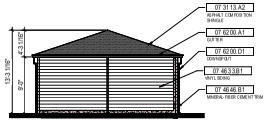
15 DETAIL GARAGE BLDG. INTERIOR WALL HEAD - SECTION
1 1/2" = 1'-0" REF: 8 / A110G



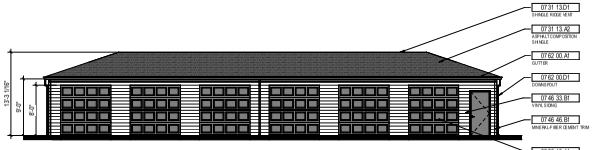
11 ELEVATION GARAGE BUILDING G1 - RIGHT
1/8" = 1'-0" REF: 1 / A110G



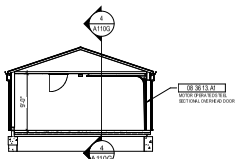
6 ELEVATION GARAGE BUILDING G1 - REAR
1/8" = 1'-0" REF: 1 / A110G



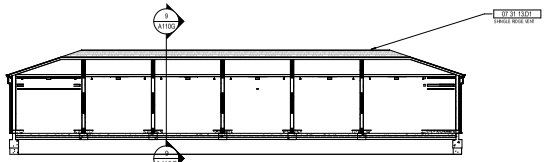
10 ELEVATION GARAGE BUILDING G1 - LEFT
1/8" = 1'-0" REF: 1 / A110G



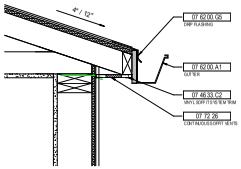
5 ELEVATION GARAGE BUILING G1 - FRONT
1/8" = 1'-0" REF: 1 / A110G



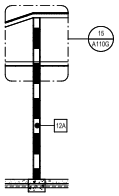
9 SECTION GARAGE BUILDING G1 - TRANSVERSAL
1/8" = 1'-0" REF: 1 / A110G



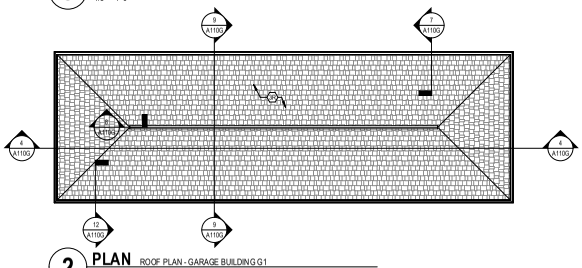
4 SECTION GARAGE BUILDING G1 - LONGITUDINAL
1/8" = 1'-0" REF: 1 / A110G



14 DETAIL GARAGE BLDG. ROOF EDGE - TYP. SECTION
1 1/2" = 1'-0" REF: 7 / A110G

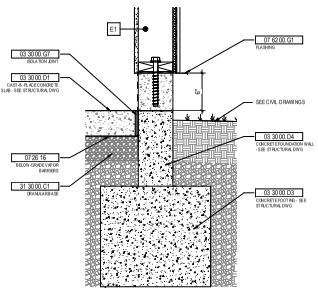


8 SECTION GARAGE BLDG. INTERIOR WALL
1/4" = 1'-0" REF: 1 / A104-G

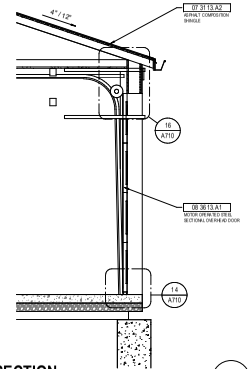


3 RCP LEVEL 01 - RCP - GARAGE BUILDING G1
1/8" = 1'-0"

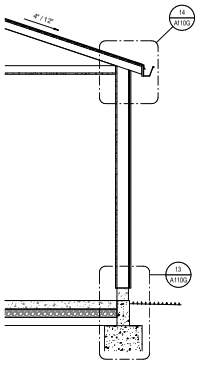
2 PLAN ROOF PLAN - GARAGE BUILDING G1
1/8" = 1'-0"



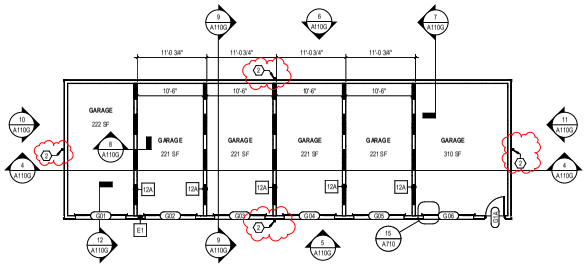
13 DETAIL GARAGE BLDG. WALL BASE - TYP. SECTION
1 1/2" = 1'-0" REF: 7 / A110G



12 SECTION GARAGE BLDG. AT OH DOOR - TYP.
1/2" = 1'-0" REF: 1 / A110G



7 SECTION GARAGE BLDG. WALL - TYP.
1/2" = 1'-0" REF: 1 / A110G



1 PLAN LEVEL 01 - FLOOR PLAN - GARAGE BUILDING G1
1/8" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND - RCP

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- VINYL SOFFIT - EXTERIOR, VENTED
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING FAN
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX | XX' XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN IN LEGEND MAY BE PRESENT IN PROJECT.

GENERAL NOTES - EXTERIOR ELEVATIONS

A X

EXTERIOR GLAZING TYPES

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
03 30.00.D1	CAST-IN-PLACE CONCRETE SLAB - SEE STRUCTURAL DWG
03 30.00.D3	CONCRETE FOOTING - SEE STRUCTURAL DWG
03 30.00.D4	CONCRETE FOUNDATION WALL - SEE STRUCTURAL DWG
03 30.00.G7	ISOLATION JOINT
06 10.00.A1	F.R.T. WOOD BLOCKING
06 10.00.A2	F.R.T. WOOD FRAMING - SEE STRUCTURAL DWGS
06 10.00.C3	OSB SHEATHING
07 26.16	BELOW-GRADE VAPOR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.D1	SHINGLE RIDGE VENT
07 46 33.B1	VINYL SIDING
07 46 33.C2	VINYL SOFFIT SYSTEM TRIM
07 46 46.B1	MINERAL FIBER CEMENT TRIM
07 62 00.A1	GUTTER
07 62 00.D1	DOWNSPOUT
07 62 01.G1	FLASHING
07 62 01.G5	DRIP FLASHING
07 72 26	CONTINUOUS SOFFIT VENTS
08 36 13.A1	MOTOR OPERATED STEEL SECTIONAL OVERHEAD DOOR
09 21 16.M2	FIRE RATED GYPSUM BOARD
09 21 16.M9A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN
31 30.00.C1	GRANULAR BASE

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

D. ALL EGRESS DOORS SHALL COMPLY WITH CURRENT OHIO BUILDING CODE, NFPA, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.

E. OFFSET STUDS AND/OR SHIM AS REQUIRED TO ALIGN FINISH MATERIALS.

F. CONTRACTOR TO PROVIDE BLOCKING IN WALLS AT LOCATIONS OF ALL WALL-MOUNTED CASEWORK, MILLWORK, FIXTURES AND EQUIPMENT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

G. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO INSTALLING ALL COUNTERTOPS, CASEWORK, MILLWORK AND EQUIPMENT.

H. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

J. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. #7 THICK W/ WWF, UNLESS NOTED OTHERWISE.

K. SEE SHEET G010G FOR GARAGE BUILDING ASSEMBLIES SCHEDULE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

1 HOUR FIRE RATED PARTITION TO DECK

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS. DETAILS AT ROOF: PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TO WARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.
- PROVIDE ICE & WATER SHIELD EXTENDING FROM EDGE OF ROOF TO AT LEAST 24" INSIDE OF THE EXTERIOR WALL LINE OF THE BUILDING + OVERHANG AND 3' WIDE AT ALL ROOF VALLEY LOCATIONS.

CODED NOTE LEGEND - ROOF PLAN

1R. TPO ROOF MEMBRANE OVER TAPERED ROOF INSULATION 1/4" PER FOOT TO DRAIN OVER 5/8" EXT. PLYWOOD SHEATHING.

2R. ROOF DRAIN - SEE PLUMBING DWGS. ROUTE DRAIN TO COLUMN, TIE PRIMARY INTO STORM SYSTEM & SECONDARY TO OUTLET ON COLUMN WALL 18" ABOVE GRADE.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT, PROVIDE ICE & WATER SHIELD FOR FIRST 24" UP FROM EXTERIOR WALL + ROOF OVERHANG & 3' WIDE AT ROOF VALLEYS.

4R. PREFINISHED ALUMINUM GUTTER & DOWNSPOUTS TO BOOT & CONNECT TO STORM DRAINAGE SYSTEM. SEE CIVIL DRAWINGS.

5R. ROOF RIDGE VENT & ADDITIONAL VENT HOODS AS REQUIRED FOR ATTIC VENTILATION. PROVIDE SHOP DRAWING FOR VENTS ALONG WITH VENT AREA CALCULATION.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT. CONSTRUCTION. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:

GARAGE BUILDING G1 & TYP. DETAILS

05/01/2025
23446

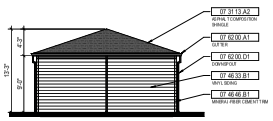
PROGRESS DRAWING NOT FOR CONSTRUCTION

A110G

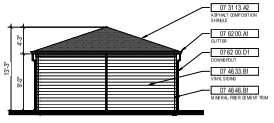
CD PROGRESS SET

PRINT VERSION: 2025
PRINT DATE: 6/11/2025 2:28:01 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Devlpmt - R22/23446_CMHA Refugee Rd Housing Devlpmt_R22_Central.rvt

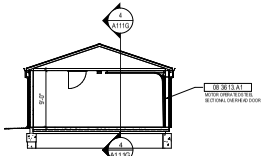
© 2025 MOODY NOLAN, INC.



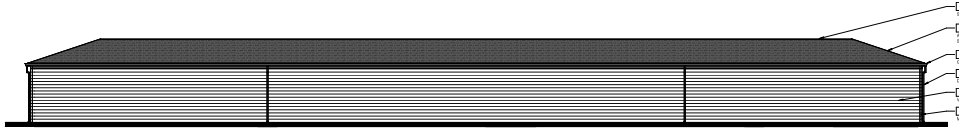
9 ELEVATION GARAGE BUILDING G2 - RIGHT
1/8" = 1'-0" REF: 1 / A111G



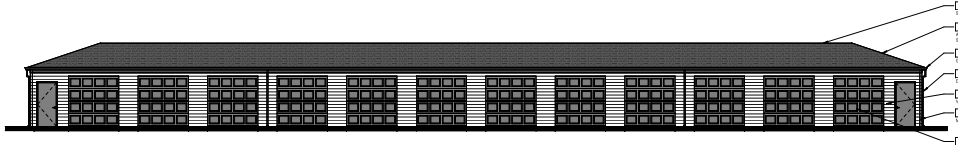
8 ELEVATION GARAGE BUILDING G2 - LEFT
1/8" = 1'-0" REF: 1 / AD100



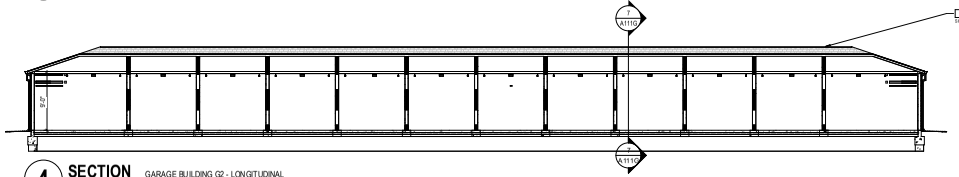
7 SECTION GARAGE BUILDING G2 - TRANSVERSAL
1/8" = 1'-0" REF: 1 / A111G



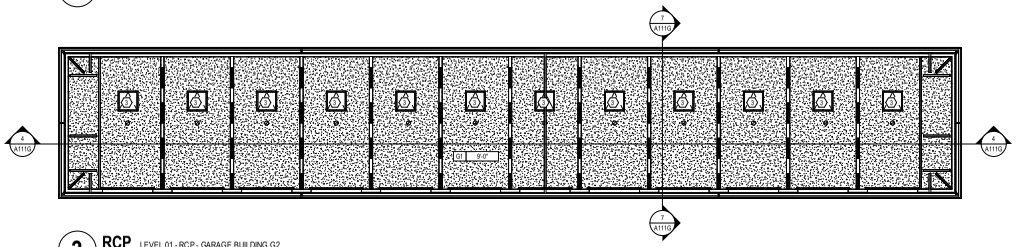
6 ELEVATION GARAGE BUILDING G2 - REAR
1/8" = 1'-0" REF: 1 / A111G



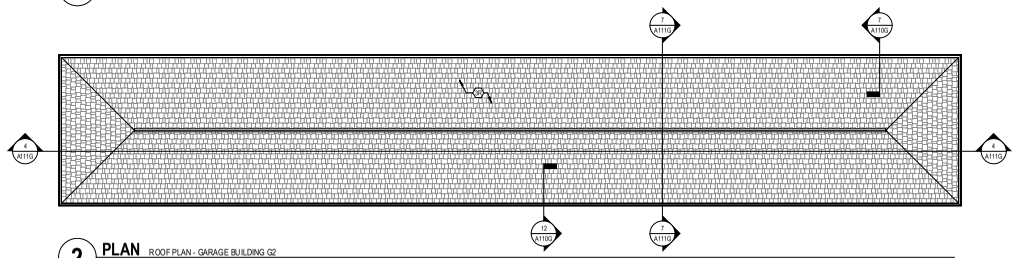
5 ELEVATION GARAGE BUILING G2 - FRONT
1/8" = 1'-0" REF: 1 / A111G



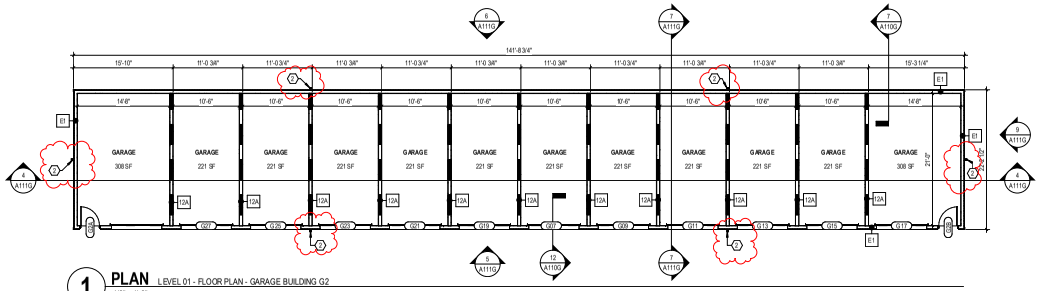
4 SECTION GARAGE BUILDING G2 - LONGITUDINAL
1/8" = 1'-0" REF: 1 / A111G



3 RCP LEVEL 01 - RCP - GARAGE BUILDING G2
1/8" = 1'-0"



2 PLAN ROOF PLAN - GARAGE BUILDING G2
1/8" = 1'-0"



1 PLAN LEVEL 01 - FLOOR PLAN - GARAGE BUILDING G2
1/8" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP. BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND - RCP

1. ALIGN FEATURES / FINISH SURFACES.
2. OPEN TO ABOVE.
3. ACCESS PANEL.
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- VINYL SOFFIT - EXTERIOR, VENTED
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING FAN
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN IN LEGEND MAY BE PRESENT IN PROJECT.

GENERAL NOTES - EXTERIOR ELEVATIONS

A. X

EXTERIOR GLAZING TYPES

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.D1	SHINGLE RIDGE VENT
07 46.33.B1	VINYL SIDING
07 46.46.B1	MINERAL FIBER CEMENT TRIM
07 62.00.A1	GUTTER
07 62.00.D1	DOWNSPOUT
08 36 13.A1	MOTOR OPERATED STEEL SECTIONAL OVERHEAD DOOR

GENERAL NOTES - FLOOR PLAN

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).

B. SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL STEEL REINFORCING IN WALL & FLOOR CONSTRUCTION.

C. SEE ELEVATIONS AND STRUCTURAL DRAWINGS FOR LOCATIONS OF EXPANSION & CONTROL JOINTS. CONTRACTOR SHALL PROVIDE ADDITIONAL INTERIOR CONTROL JOINTS AS REQUIRED TO COMPLY WITH MAXIMUM SPACING REQUIREMENTS IN SPECIFICATIONS AND NATIONAL MASONRY INSTITUTE.

D. ALL EGRESS DOORS SHALL COMPLY WITH CURRENT OHIO BUILDING CODE, NFPA, OSHA AND ALL OTHER FEDERAL, STATE AND LOCAL CODES HAVING JURISDICTION.

E. OFFSET STUDS AND/OR SHIM AS REQUIRED TO ALIGN FINISH MATERIALS.

F. CONTRACTOR TO PROVIDE BLOCKING IN WALLS AT LOCATIONS OF ALL WALL-MOUNTED CASEWORK, MILLWORK, FIXTURES AND EQUIPMENT. COORDINATE FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

G. CONTRACTOR TO FIELD VERIFY DIMENSIONS PRIOR TO INSTALLING ALL COUNTERTOPS, CASEWORK, MILLWORK AND EQUIPMENT.

H. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.

J. MECHANICAL & ELECTRICAL EQUIPMENT SHALL BE ON HOUSEKEEPING PADS. PADS ARE TO BE PROVIDED BY THE TRADE SUPPLYING THE EQUIPMENT. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. WORK TO BE COORDINATED THROUGH THE GENERAL TRADES CONTRACTOR. PADS 4" MIN. #7 THICK W/ WWF, UNLESS NOTED OTHERWISE.

K. SEE SHEET G010G FOR GARAGE BUILDING ASSEMBLIES SCHEDULE.

CODED NOTE LEGEND - FLOOR PLAN

1. ALIGN FEATURES / FINISH SURFACES.
2. DOWNSPOUT

RATED WALL LEGEND

1 HOUR FIRE RATED PARTITION TO DECK

GENERAL NOTES - ROOF PLAN

- REFER TO STRUCTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AND ALL STRUCTURAL ELEMENTS.
- REFER TO MECHANICAL DRAWINGS FOR PIPE PENETRATIONS. DETAILS AT ROOF. PROVIDE FLASHING AS REQUIRED BY ROOF MANUFACTURER.
- REFER TO MEP DRAWINGS FOR INFORMATION REGARDING ROOF-MOUNTED EQUIPMENT AND ALL REQUIRED ROOF PENETRATIONS.
- INSTALL ROOF SADDLE OR CRICKET (MIN. 1/4" / FT SLOPE) AT LOCATIONS ON ROOF WHERE EQUIPMENT ROOF PENETRATIONS BLOCK DOWN FLOW OF WATER TO GUTTERS/ DOWNSPOUTS.
- PROVIDE ROOF CRICKETS AS NEEDED TO DIRECT WATER FLOW AROUND CURBS AND TOWARD GUTTERS/ DOWNSPOUTS.
- A MINIMUM ROOF SLOPE OF 1/4" PER FOOT IS REQUIRED.
- PROVIDE ROOF RIDGE VENTS & ROOF EXHAUST HOODS PER CODE FOR ROOF AREA. SUBMIT CALCULATIONS AND LAYOUT PLAN SHOP DRAWING.

CODED NOTE LEGEND - ROOF PLAN

1R. NOT USED.

2R. NOT USED.

3R. ASPHALT SHINGLE ROOF OVER ROOF UNDERLAYMENT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DOWNTOWN. COMMITMENT. COLUMBUSITE.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

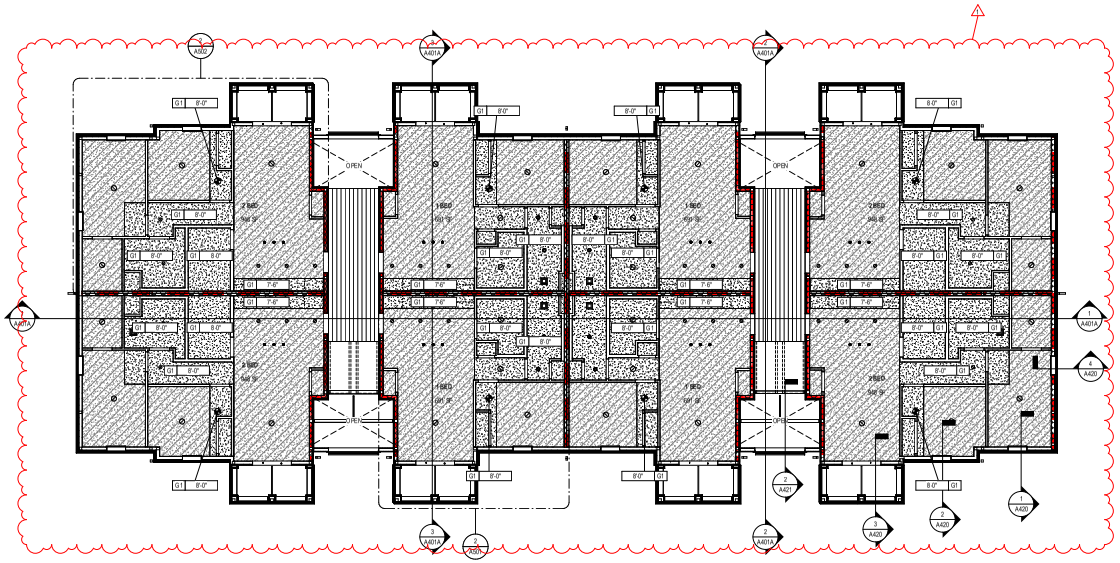
DRAWING TITLE:
GARAGE BUILDING G2

05/01/2025
23446
A111G
CD PROGRESS SET

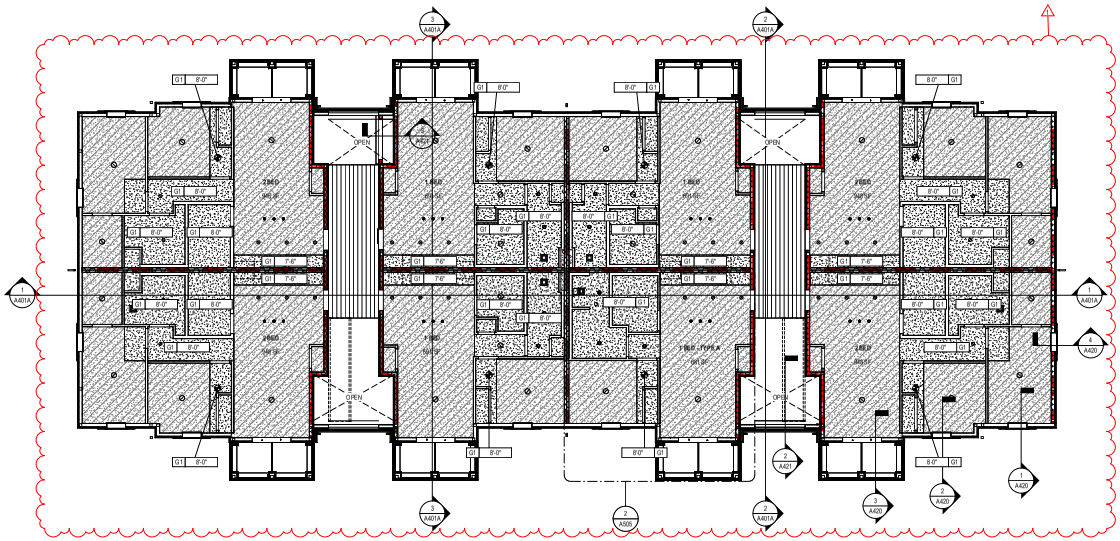
PROGRESS DRAWING NOT FOR CONSTRUCTION

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 2:28:06 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Devpmt_R23/23446_CMHA Refugee Rd Housing_R23_v23.rvt

© 2025 MOODY NOLAN, INC.



2 RCP LEVEL 02 - RCP - BUILDING A
1/8" = 1'-0"



1 RCP LEVEL 01 - RCP - BUILDING A
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS) AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX | XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPPORTUNITY. CONFIDENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - LEVEL 01 & 02 RCP

05/01/2025
23446

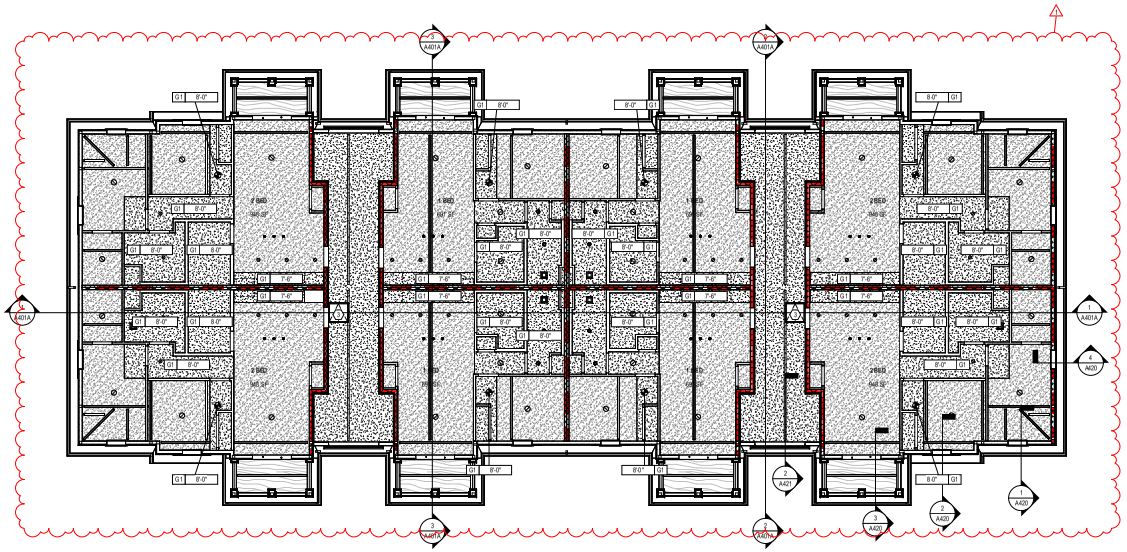
PROGRESS DRAWING NOT FOR CONSTRUCTION

A201A

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:26:12 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Design/_R23_23446_CMHA Refugee Rd Housing_MOODY_R23.rvt

© 2025 MOODY NOLAN, INC.



1 **RCP** LEVEL 03 - RCP - BUILDING A
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS) AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX | XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF, FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPENING DOORS. CHANGING COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

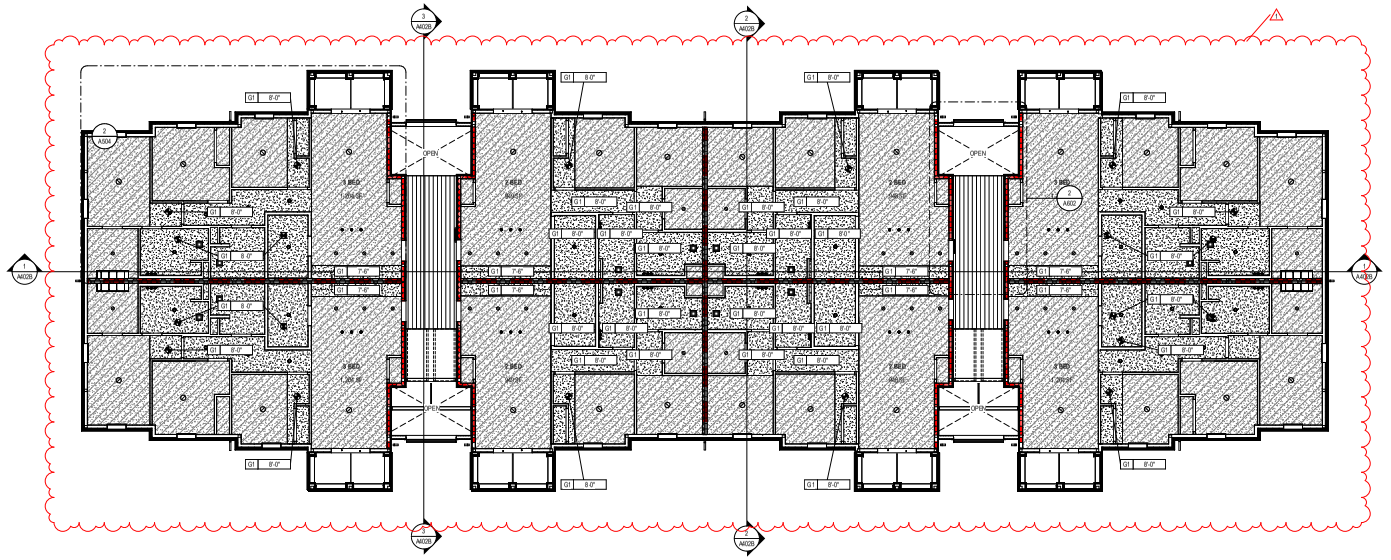
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03 RCP

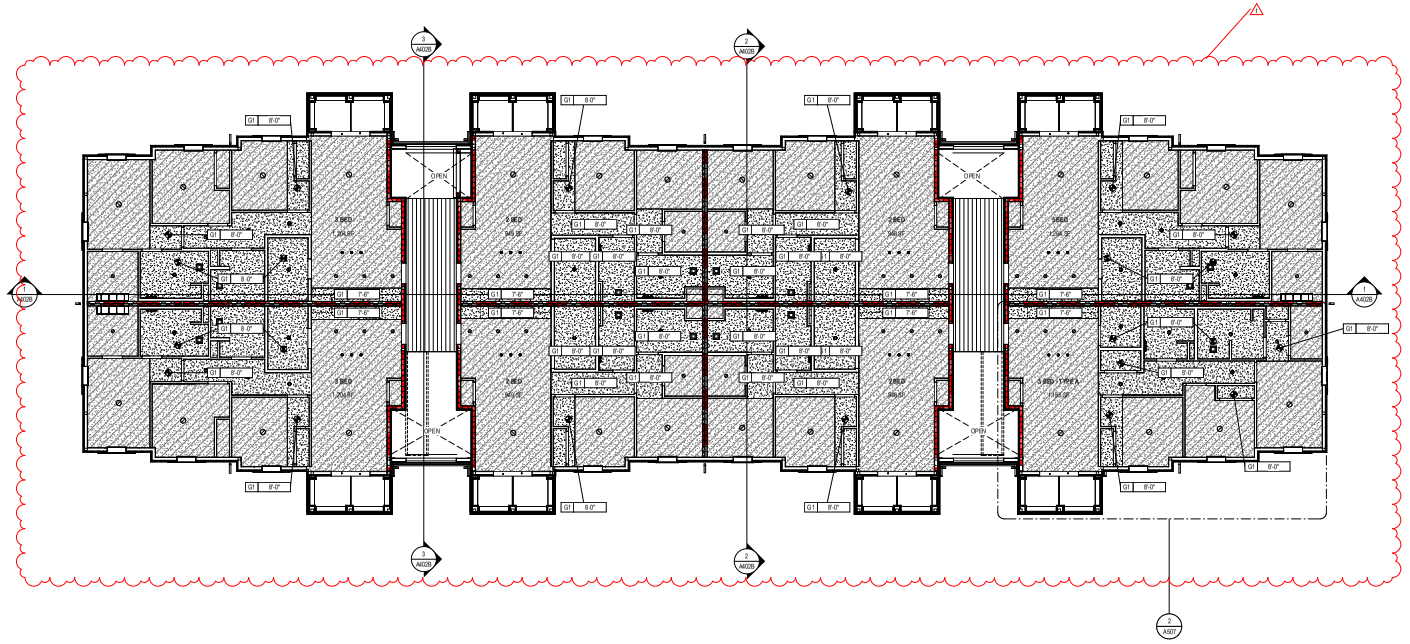
05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A202A
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:26:16 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.



2 **RCP** LEVEL 02 - RCP - BUILDING B
1/8" = 1'-0"



1 **RCP** LEVEL 01 - RCP - BUILDING B
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS) AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX | XX'-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF, FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EMPOWER. CONFIDENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

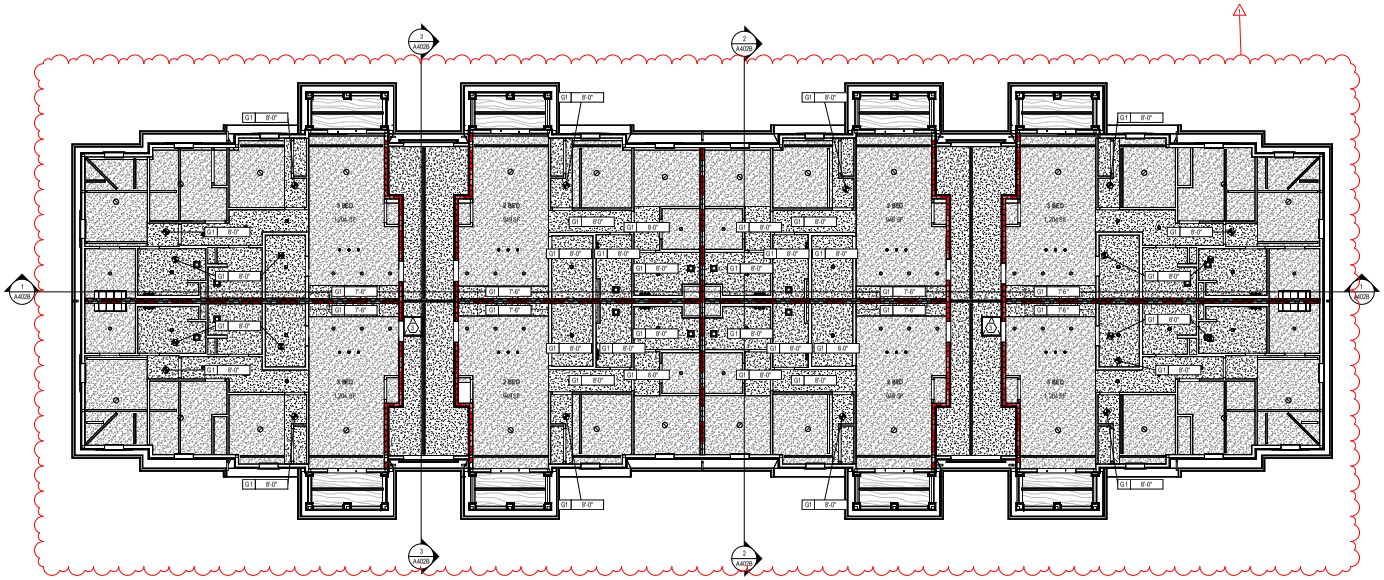
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 RCP

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A203B
CD PROGRESS SET

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:28:23 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Design/23446_CMHA Refugee Rd Housing_ARCH_R25.rvt

© 2025 MOODY NOLAN, INC.



1 **RCP** LEVEL 03 - RCP - BUILDING B
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS) AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX | XX'-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF, FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OPENING DOORS/OPENING OPPORTUNITIES

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

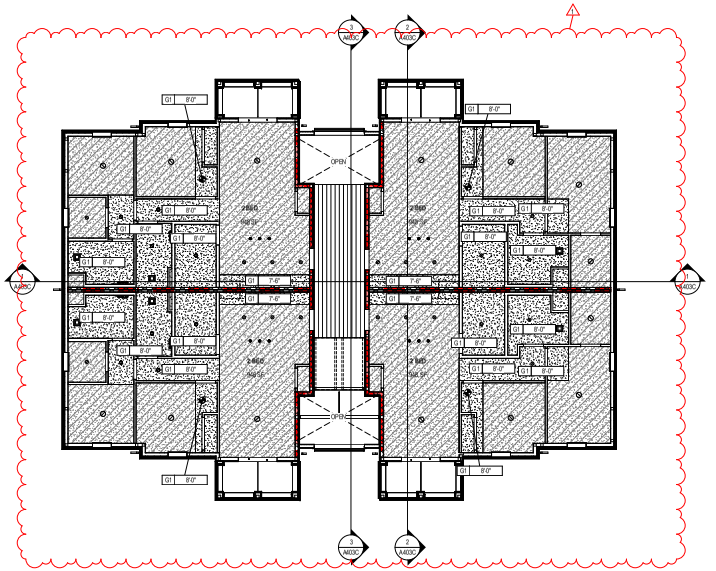
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03 RCP

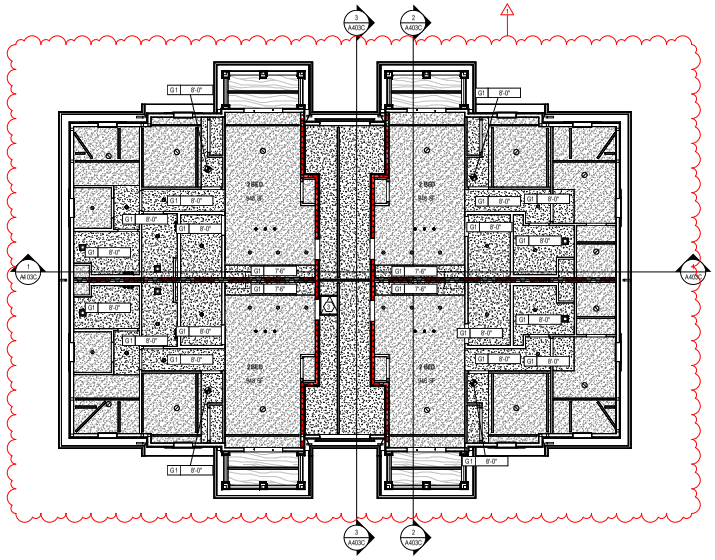
05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A204B
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:26:27 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

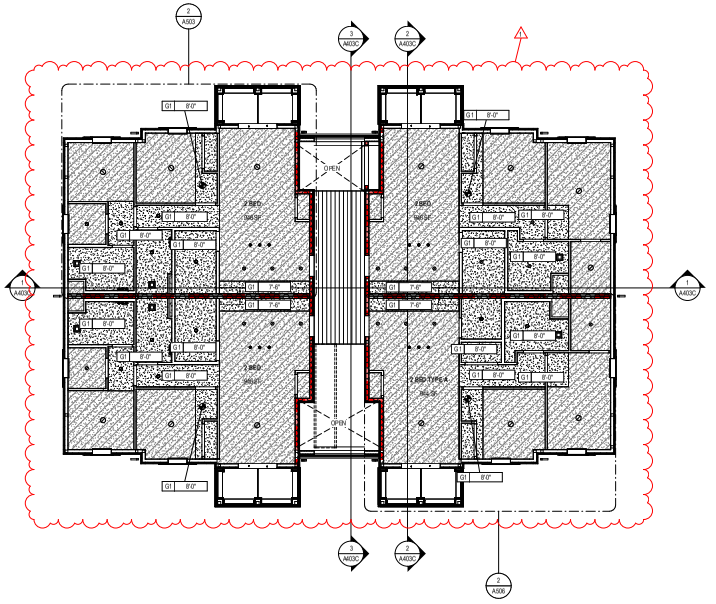
© 2025 MOODY NOLAN, INC.



2 **RCP** LEVEL 02 - RCP - BUILDING C
1/8" = 1'-0"



3 **RCP** LEVEL 03 - RCP - BUILDING C
1/8" = 1'-0"



1 **RCP** LEVEL 01 - RCP - BUILDING C
1/8" = 1'-0"

RCP GENERAL NOTES

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS) AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX | XX'-XX" — CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF, FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

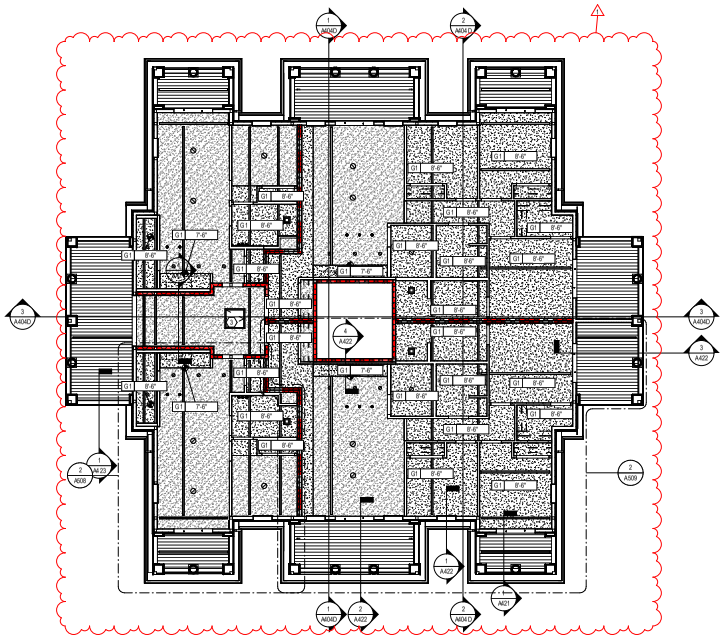
DRAWING TITLE:

BUILDING C - LEVEL 01, 02 & 03 RCP

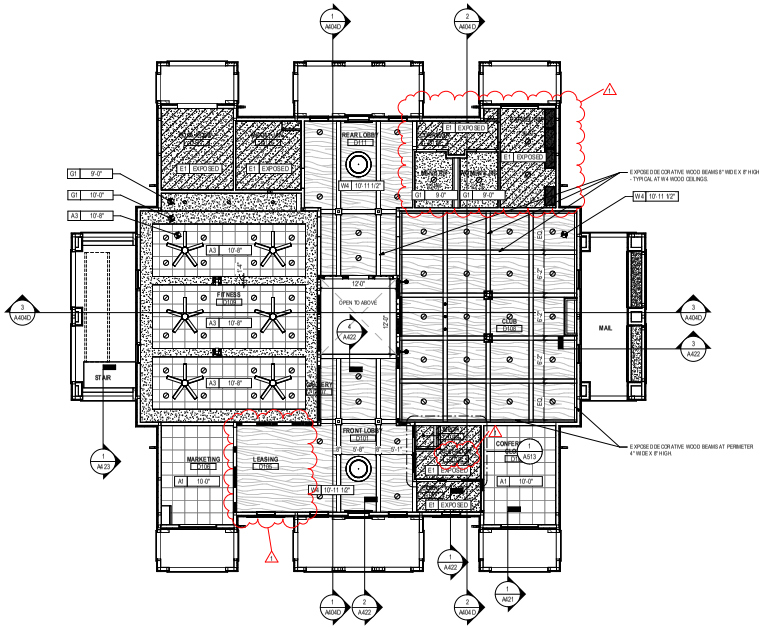
05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A205C
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:28:33 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.



2 **RCP** LEVEL 02 - RCP - BUILDING D
1/8" = 1'-0"



1 **RCP** LEVEL 01 - RCP - BUILDING D
1/8" = 1'-0"

GENERAL NOTES - RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE IS TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL AND ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS) AND ALL OTHER MISCELLANEOUS BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES IS TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.

B. ALL GYP BOARD CEILINGS / SOFFITS ARE 9'-0" AFF UNO.

C. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.

D. FINISHED CEILING HEIGHTS ARE MARKED FROM TOP OF FINISH FLOOR (UNLESS NOTED OTHERWISE).

E. COORDINATE LOCATION OF FIXTURES WITH MECHANICAL, ELECTRICAL, PLUMBING, FIRE SUPPRESSION AND TECHNOLOGY DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.

F. FACE OF BULKHEADS ARE TO ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, UNLESS NOTED OTHERWISE OR DIMENSIONED.

G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE (UNLESS NOTED OTHERWISE).

H. PAINT DUCTWORK INSIDE AIR GRILLES FLAT BLACK.

J. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.

K. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.

L. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.

CODED NOTE LEGEND - RCP

1. ALIGN FEATURES / FINISH SURFACES
2. OPEN TO ABOVE.
3. ACCESS PANEL
4. TBD
5. TBD

RCP LEGEND

- G1 GYPSUM BOARD CEILING OR SOFFIT
- A1 ACOUSTICAL CEILING TILE - 2x2, WHITE
- A3 ACOUSTICAL CEILING TILE - 2x2, BLACK
- E1 EXPOSED TO FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- W4 WOOD CEILING
- 2x2 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 2x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x4 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- 1x8 LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- DR RECESSED CAN LIGHT
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- LINEAR COVE / SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- CEILING FAN
- CEILING MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW
- WALL MOUNTED EXIT LIGHT WITH DIRECTIONAL ARROW (PERPENDICULAR / PARALLEL)
- EXIT LIGHT
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

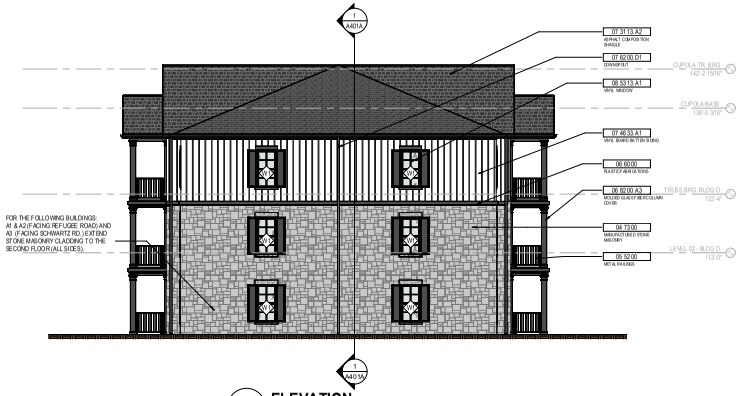
DRAWING TITLE:
CLUBHOUSE - LEVEL 01 & 02 RCP

05/01/2025
23446
A206D
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

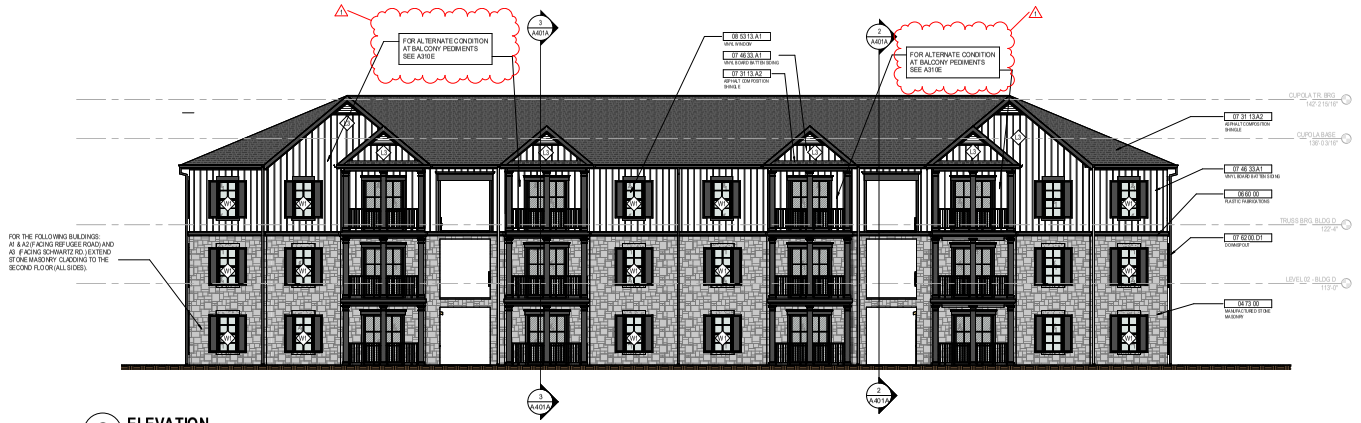
PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:28:38 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Dwlpmt_R23/23446_CMHA Refugee Rd Housing_R23_v23.rvt

© 2025 MOODY NOLAN, INC.



4 ELEVATION BUILDING A - SIDE STREET FACING
1/8" = 1'-0" REF: 1 / AD100

3 ELEVATION BUILDING A - RIGHT ELEVATION
1/8" = 1'-0" REF: 1 / A101A



2 ELEVATION BUILDING A FRONT/BACK - STREET FACING
1/8" = 1'-0" REF: 1 / AD100

1 ELEVATION BUILDING A - FRONT/BACK ELEVATION
1/8" = 1'-0" REF: 1 / 100-A

GENERAL NOTES - EXTERIOR ELEVATIONS

1. SEE MEP DRAWINGS FOR LOCATIONS OF BLDG VENTS AND WALL HYDRANTS ON THE ELEVATIONS. COORDINATE FINAL PLACEMENT WITH ARCHITECT.

EXTERIOR CODED NOTES

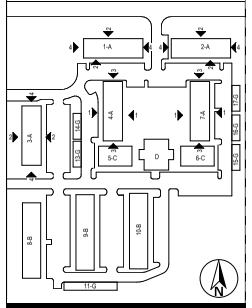
EXTERIOR LEGEND

IG-1	EXTERIOR GLAZING (CLEAR)
IG-1A	EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
06 82 00	MOLDED GLASS FIBER FABRICATIONS
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.D1	DOWNSPOUT
08 16 13	FIBERGLASS DOORS
08 53 13.A1	VINYL WINDOW
08 91 20	ROOF GABLE LOUVERS

KEYPLAN



#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPER, OWNER AND CO-APPLICANT

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING A - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

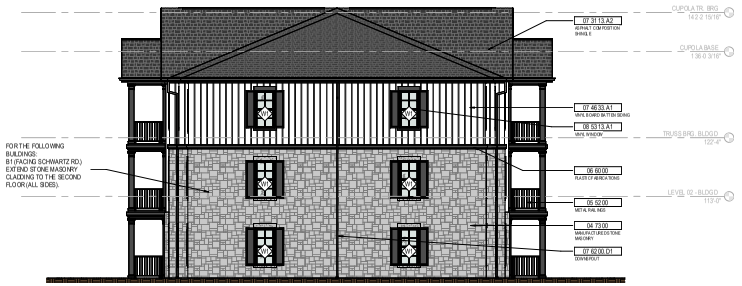
23446

A310A

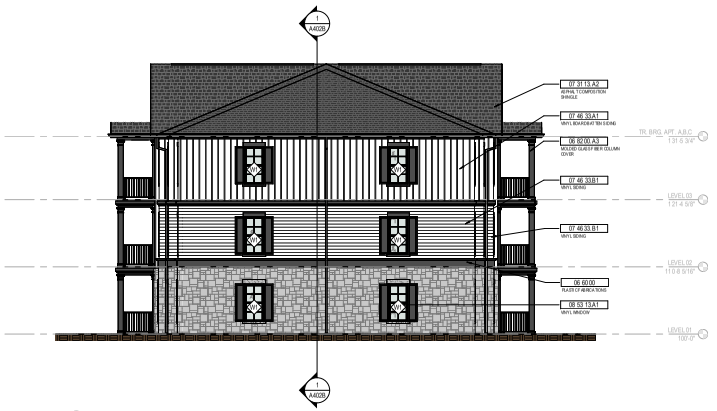
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 2:28:57 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23_v23.rvt

© 2025 MOODY NOLAN, INC.



4 **ELEVATION** BUILDING B - SIDE STREET FACING
1/8" = 1'-0" REF: 1 / AD100



2 **ELEVATION** BUILDING B - SIDE ELEVATION
1/8" = 1'-0" REF: 1 / A103B

3 **ELEVATION** BUILDING B FRONT/BACK - STREET FACING
1/8" = 1'-0" REF: 1 / AD100

1 **ELEVATION** BUILDING B - FRONT/REAR ELEVATION
1/8" = 1'-0" REF: 1 / A103B

GENERAL NOTES - EXTERIOR ELEVATIONS

1. SEE MEP DRAWINGS FOR LOCATIONS OF BLDG VENTS AND WALL HYDRANTS ON THE ELEVATIONS. COORDINATE FINAL PLACEMENT WITH ARCHITECT.

EXTERIOR CODED NOTES

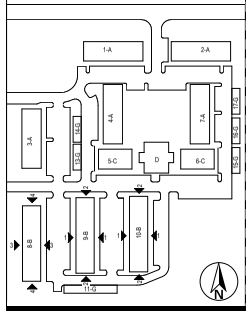
EXTERIOR LEGEND

IG-1	EXTERIOR GLAZING (CLEAR)
IG-1A	EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
06 62 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.D1	DOWNSPOUT
08 53 13.A1	VINYL WINDOW

KEYPLAN



#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DOING BUSINESS AS COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

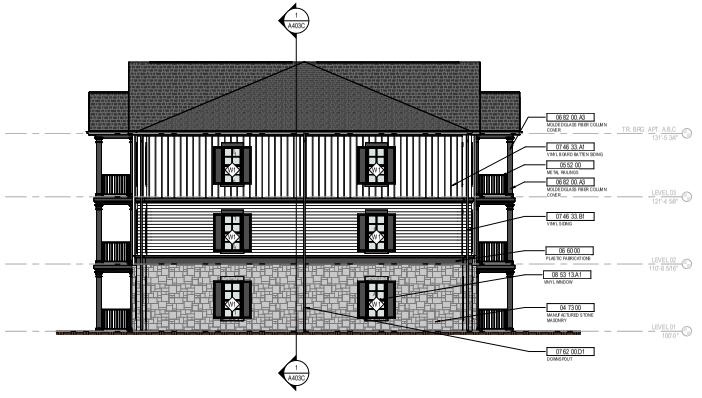
DRAWING TITLE:

BUILDING B - EXTERIOR ELEVATIONS

	05/01/2025
	23446
PROGRESS DRAWING NOT FOR CONSTRUCTION	**A310B**
	CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:27:08 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Design/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.



2 ELEVATION BUILDING C - SIDE ELEVATION
1/8" = 1'-0" REF: 1 / A105C

1 ELEVATION BUILDING C - FRONT/REAR ELEVATION
1/8" = 1'-0" REF: 1 / AD100

GENERAL NOTES - EXTERIOR ELEVATIONS

1. SEE MEP DRAWINGS FOR LOCATIONS OF BLDG VENTS AND WALL HYDRANTS ON THE ELEVATIONS. COORDINATE FINAL PLACEMENT WITH ARCHITECT.

EXTERIOR CODED NOTES

EXTERIOR LEGEND

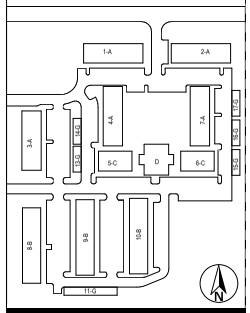
IG-1 EXTERIOR GLAZING (CLEAR)

IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.D1	DOWNSPOUT
08 53 13.A1	VINYL WINDOW

KEYPLAN



#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:

BUILDING C - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

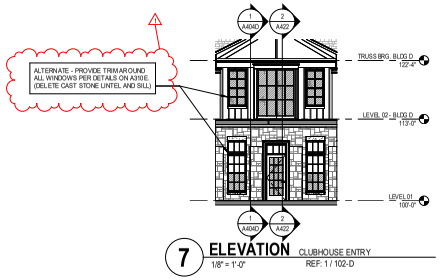
23446

A310C

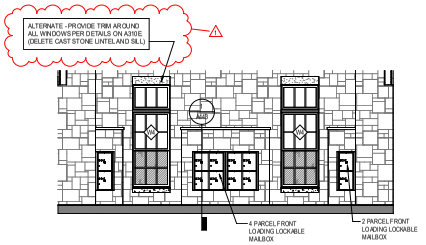
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:27:13 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23.rvt

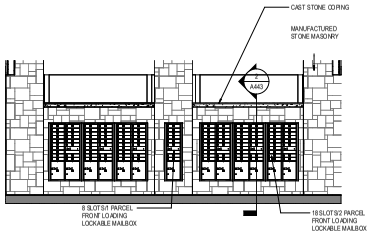
© 2025 MOODY NOLAN, INC.



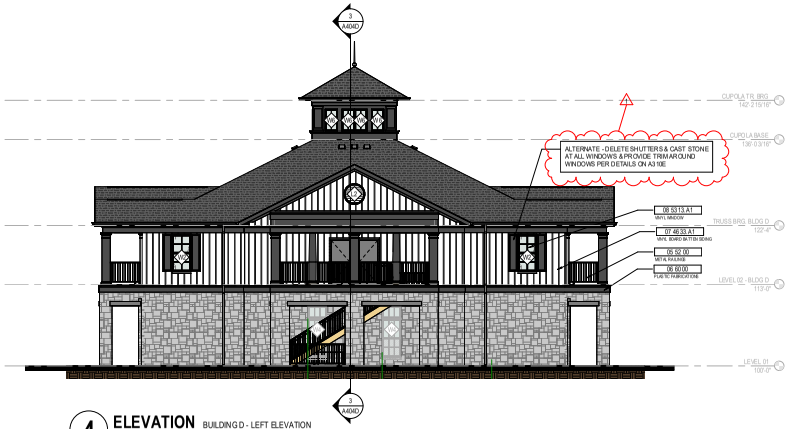
7 ELEVATION CLUBHOUSE ENTRY
1/8" = 1'-0" REF: 1 / 102-D



6 ELEVATION MAIL - WEST
1/4" = 1'-0" REF: 1 / A106D

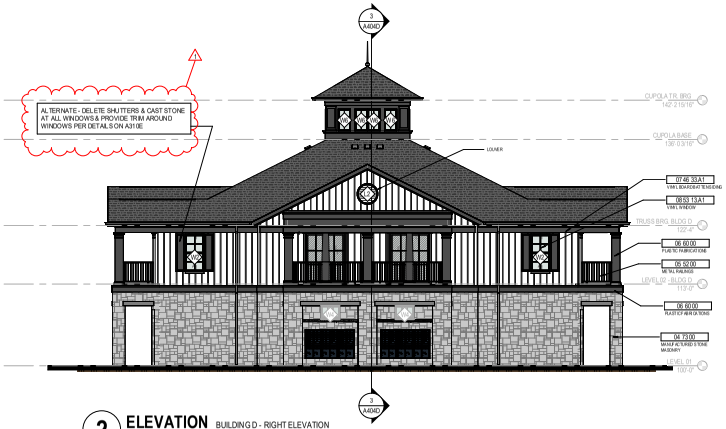


5 ELEVATION MAIL - EAST
1/4" = 1'-0" REF: 1 / A106D

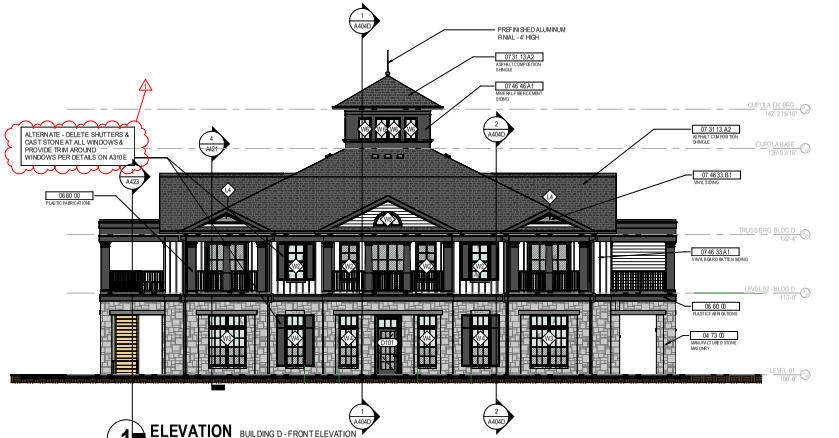


4 ELEVATION BUILDING D - LEFT ELEVATION
1/8" = 1'-0" REF: 1 / A106D

3 ELEVATION BUILDING D - REAR ELEVATION
1/8" = 1'-0" REF: 1 / A106D



2 ELEVATION BUILDING D - RIGHT ELEVATION
1/8" = 1'-0" REF: 1 / A106D



1 ELEVATION BUILDING D - FRONT ELEVATION
1/8" = 1'-0" REF: 1 / A106D

GENERAL NOTES - EXTERIOR ELEVATIONS

1. SEE MEP DRAWINGS FOR LOCATIONS OF BLDG VENTS AND WALL HYDRANTS ON THE ELEVATIONS. COORDINATE FINAL PLACEMENT WITH ARCHITECT.

EXTERIOR CODED NOTES

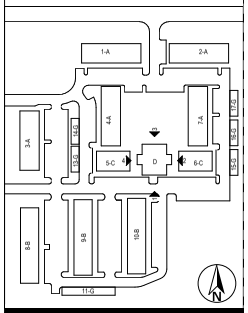
EXTERIOR LEGEND

IG-1	EXTERIOR GLAZING (CLEAR)
IG-1A	EXTERIOR GLAZING (CLEAR TEMPERED)

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 72 00.A6	CAST STONE COPING
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 60 00	PLASTIC FABRICATIONS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 46 46.A1	MINERAL FIBER CEMENT SIDING
08 53 13.A1	VINYL WINDOW
10 55 23.B1	2 PARCEL FRONT LOADING LOCKABLE MAILBOX
10 55 23.B2	4 PARCEL FRONT LOADING LOCKABLE MAILBOX
10 55 23.B3	8 SLOTS/1 PARCEL FRONT LOADING LOCKABLE MAILBOX
10 55 23.B4	18 SLOTS/2 PARCEL FRONT LOADING LOCKABLE MAILBOX

KEYPLAN



#	DATE	CHANGE DESCRIPTION
1	09/01/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DIGNITY. OPPORTUNITY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614.461.4664
CERT. NO: FIRM 00197475

DRAWING TITLE
CLUBHOUSE - EXTERIOR ELEVATIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A310D
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 9/1/2025 2:27:21 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R20250346_CMHA Refugee Rd Housing/_ARCH_R20.rvt

© 2025 MOODY NOLAN, INC.

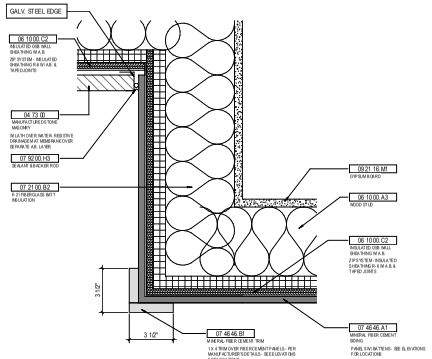
THIS ALTERNATE SHOWS BLDG TYPE A WITH THE TWO-STORY STONE CLADDING WHICH OCCURS ONLY ON THE BUILDINGS ALONG THE TWO ROADS ADJACENT TO THE PROPERTY (HEIGHT OF STONE CLADDING DOES NOT CHANGE UNDER THIS ALTERNATE - ONLY THE LOCATIONS OF THE STONE).

THE ALTERNATE ON THE BLDG TYPES A, B & C - DELETE THE SHUTTERS & PROVIDE THE SAME WINDOW TRIM/TRIM SURROUND AS SHOWN ON THIS SHEET AT THE BALCONY PEDIMENTS THE CLADDING IS TO BE CHANGED TO THE FIBER CEMENT PANELS W BATTENS FULL HEIGHT AS SHOWN ON THIS ELEVATION.

4 ELEVATION
1/8" = 1'-0"

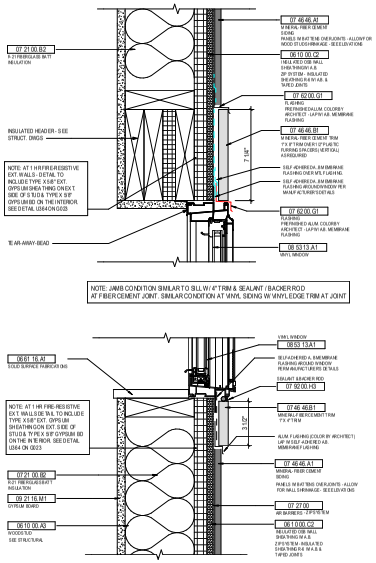
ALTERNATE - TRIM @ WINDOWS (NO SHUTTERS) & FIBER CEMENT PANEL W/ BATTENS

REF: 1 / AD100



3 DETAIL
3" = 1'-0"

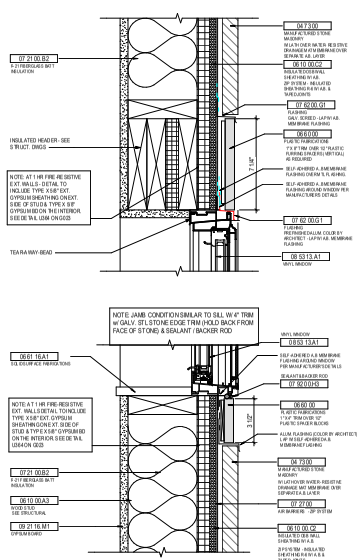
PLAN DETAIL AT FIBER CEMENT SIDING CORNER TRIM



2 DETAIL
3" = 1'-0"

ALT. WINDOW SILL & HEAD AT FIBER CEMENT PANEL AREAS (NO SHUTTERS)

REF: 4 / A310E



1 DETAIL
3" = 1'-0"

ALT. WINDOW HEAD & SILL AT STONE (NO SHUTTERS)

REF: 4 / A310E

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3395 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:

ALTERNATE ELEVATION & DEATILS

05/01/2025

PROGRESS DRAWING NOT FOR CONSTRUCTION

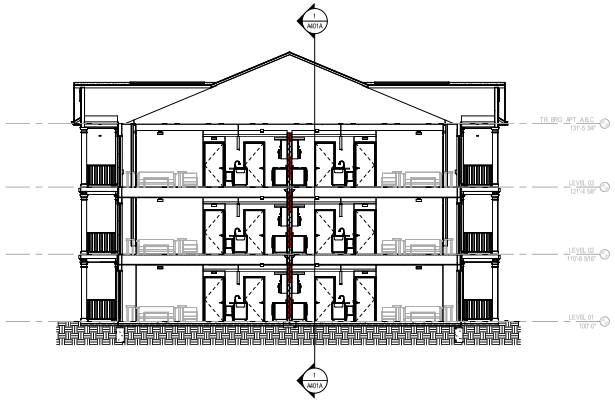
23146

A310E

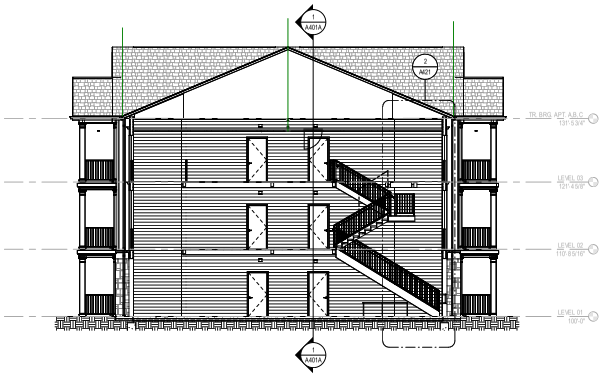
CD PROGRESS SET

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:27:27 PM
FILE INFO: Autodesk Docs://23146_CMHA Refugee Rd Housing Project - R25/23146_CMHA Refugee Rd Housing_R25.rvt

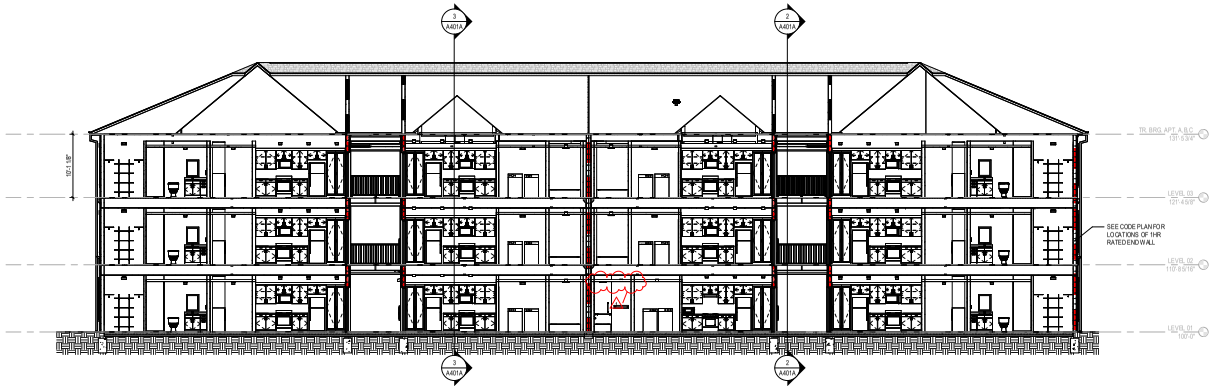
© 2025 MOODY NOLAN, INC.



3 SECTION BUILDING A CROSS SECTION
1/8" = 1'-0" REF: 1 / A101A



2 SECTION BUILDING A CROSS SECTION @ BREEZEWAY
1/8" = 1'-0" REF: 1 / A101A



1 SECTION BUILDING A LONGITUDINAL SECTION
1/8" = 1'-0" REF: 1 / A101A

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - SECTIONS

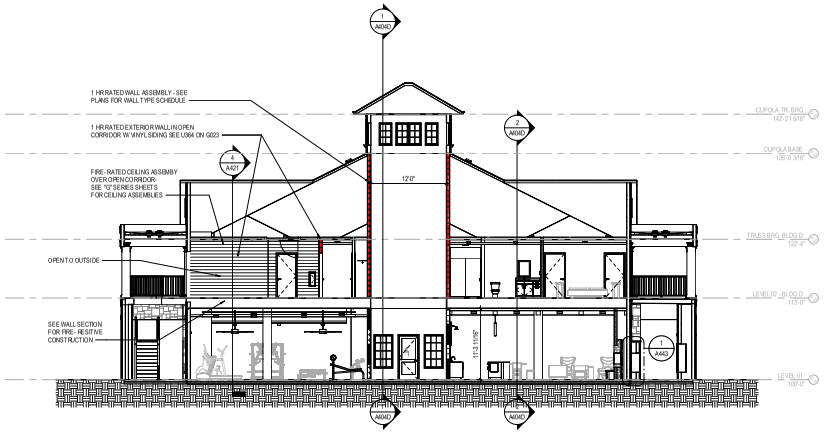
05/01/2025
23446
A401A
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

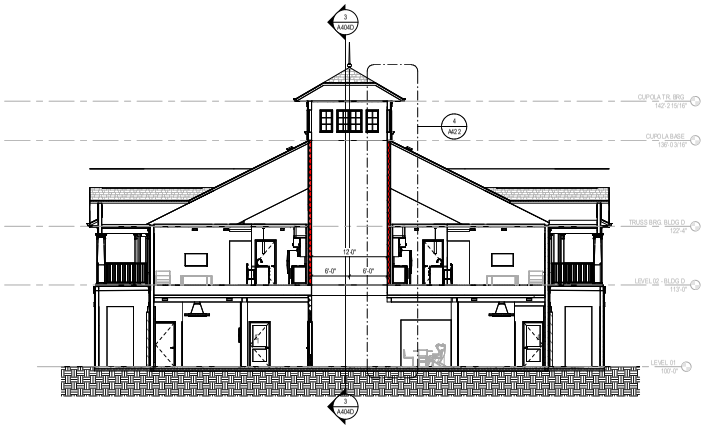
REVIT VERSION: 2023
PRINT DATE: 5/1/2025 2:27:31 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN INC.

2 SECTION SECTION NORTH-SOUTH #2 - BUILDING D - CLUBHOUSE
1/8" = 1'-0" REF: 1 / A106D



3 SECTION SECTION EAST-WEST - BUILDING D - CLUBHOUSE
1/8" = 1'-0" REF: 1 / A106D



1 SECTION SECTION NORTH-SOUTH #1 - BUILDING D - CLUBHOUSE
1/8" = 1'-0" REF: 1 / A106D

#	DATE	CHANGE DESCRIPTION
1	09/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEMONSTRATE. COLLABORATE.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

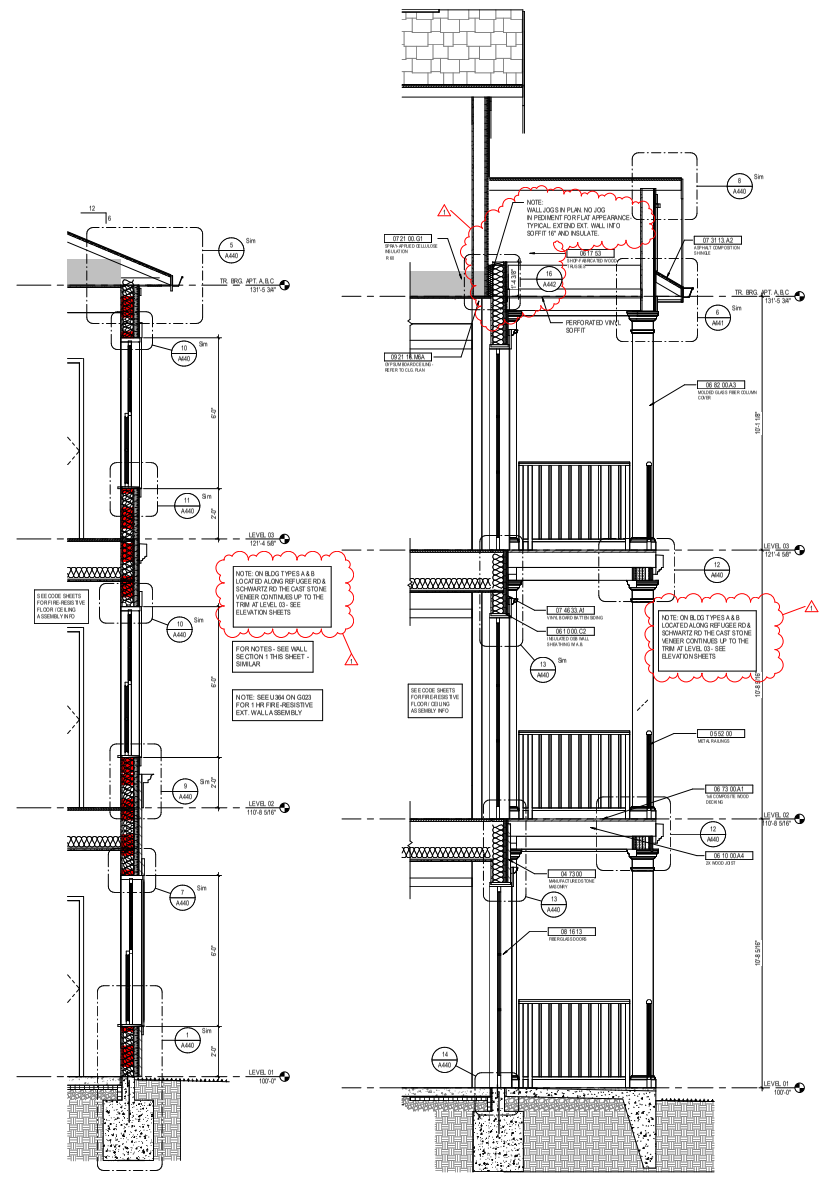
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE
CLUBHOUSE SECTIONS

PROGRESS DRAWING NOT FOR CONSTRUCTION	05/01/2025
	23446
	A404D
	CD PROGRESS SET

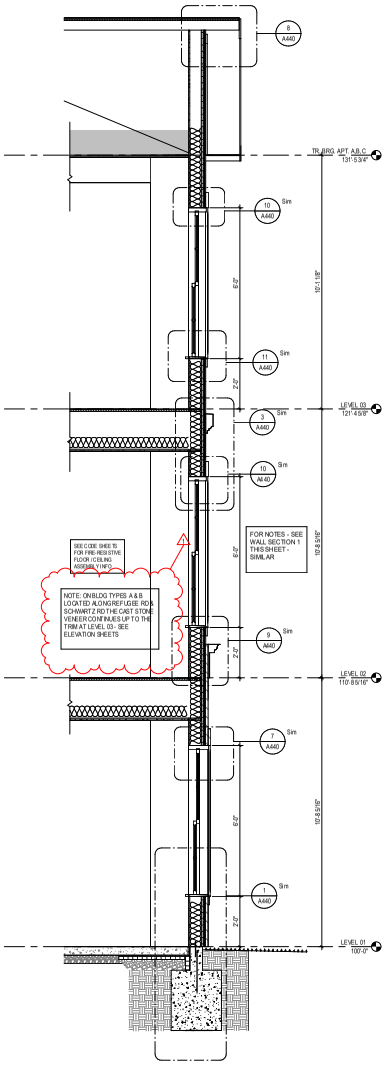
PRINT VERSION: 2023
PRINT DATE: 9/17/2025 2:27:44 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Chapter_R23/23446_CMHA Refugee Rd Housing_detCH_R23.rvt

© 2025 MOODY NOLAN, INC.

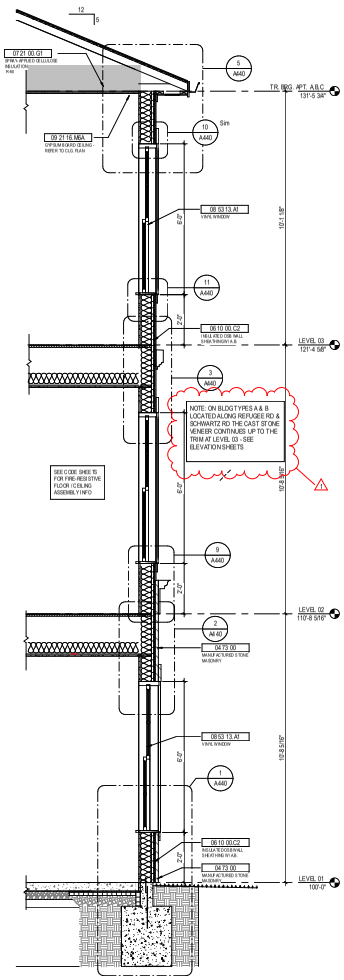


4 SECTION 1/2" = 1'-0" — BLDG. TYPE A - AT 1HR FIRE-RESISTIVE ENDWALL — REF: 1 / 100-A

3 SECTION 1/2" = 1'-0" — BLDG. TYPE A - WALL SECTION @ BALCONY — REF: 1 / A101A



2 SECTION 1/2" = 1'-0" — BLDG. TYPE A - TYPICAL WALL SECTION AT PEDIMENT — REF: 1 / A101A



1 SECTION 1/2" = 1'-0" — BLDG. TYPE A - TYPICAL WALL SECTION — REF: 1 / A101A

GENERAL NOTES - WALL SECTIONS

A. REFER TO G SHEETS FOR ADDITIONAL INFORMATION OF FIRE RATINGS FOR FLOORS AND WALLS.
B. ALL METAL EXPOSED TO EXTERIOR CONDITIONS TO BE GALVANIZED.
C. REFER TO ELEVATIONS FOR WINDOW TYPES.
D. SEAL AIR BARRIER CONTINUOUSLY THROUGHOUT ALL ADJACENT SYSTEMS AND STEEL SUPPORTS (TYP.)
E. AIR BARRIER MUST BE CONTINUOUSLY SEALED AT ALL WINDOW FRAMES.
F. ALL RIGID INSULATION IN WALLS OR CURTAINWALL TO BE PROPERLY SEALED AT ALL PENETRATIONS
G. ALL GRADE TO SLOPE AWAY FROM BUILDING.
H. ALL DRIP EDGES TO BE STAINLESS STEEL.
I. ALL FLASHING ON WALLS INTERSECTING ROOF SURFACES TO TURN UP ROOF A MINIMUM OF 8". ADDITIONAL TURN-UP MAY BE REQUIRED BY ROOF MANUFACTURER TO MAINTAIN WARRANTY. REFER TO ROOFING MANUFACTURER'S RECOMMENDED DETAILS FOR ADDITIONAL INFORMATION.
J. RETURN PRE-MANUFACTURED STONE BANDING PATTERN AND REVEALS AT ALL WINDOW JAMBS, PILASTERS AND CHANGES IN WALL PLANE.
K. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER.
L. REFER TO ELEVATIONS AND SPECIFICATIONS FOR LOCATIONS OF CONTROL JOINTS.
M. BATT INSULATION TO HAVE FACING PER ATTACHED SPECIFICATION.
N. REFER TO WINDOW SHEETS AND INTERIOR SHEETS FOR EXACT LOCATION AND ADDITIONAL INFORMATION REGARDING WINDOW SHADES.
O. COMBUSTIBLE EXTERIOR WALL COVERINGS SHALL BE LIMITED TO 40 FEET IN HEIGHT ABOVE GRADE PLANE.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.A4	2X WOOD JOIST
06 10 00.C2	INSULATED OSB WALL SHEATHING W.A.B.
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 73 00.A1	1HR COMPOSITE WOOD DECKING
06 82 00.A3	MOLDED GLASS FIBER COLUMN COVER
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 46 33.A1	VINYL BOARD BATTEN SIDING
08 16 13	FIBERGLASS DOORS
08 53 13.A1	VINYL WINDOW
09 21 16.M3A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614.461.4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:

WALL SECTIONS - BUILDING A THRU C

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

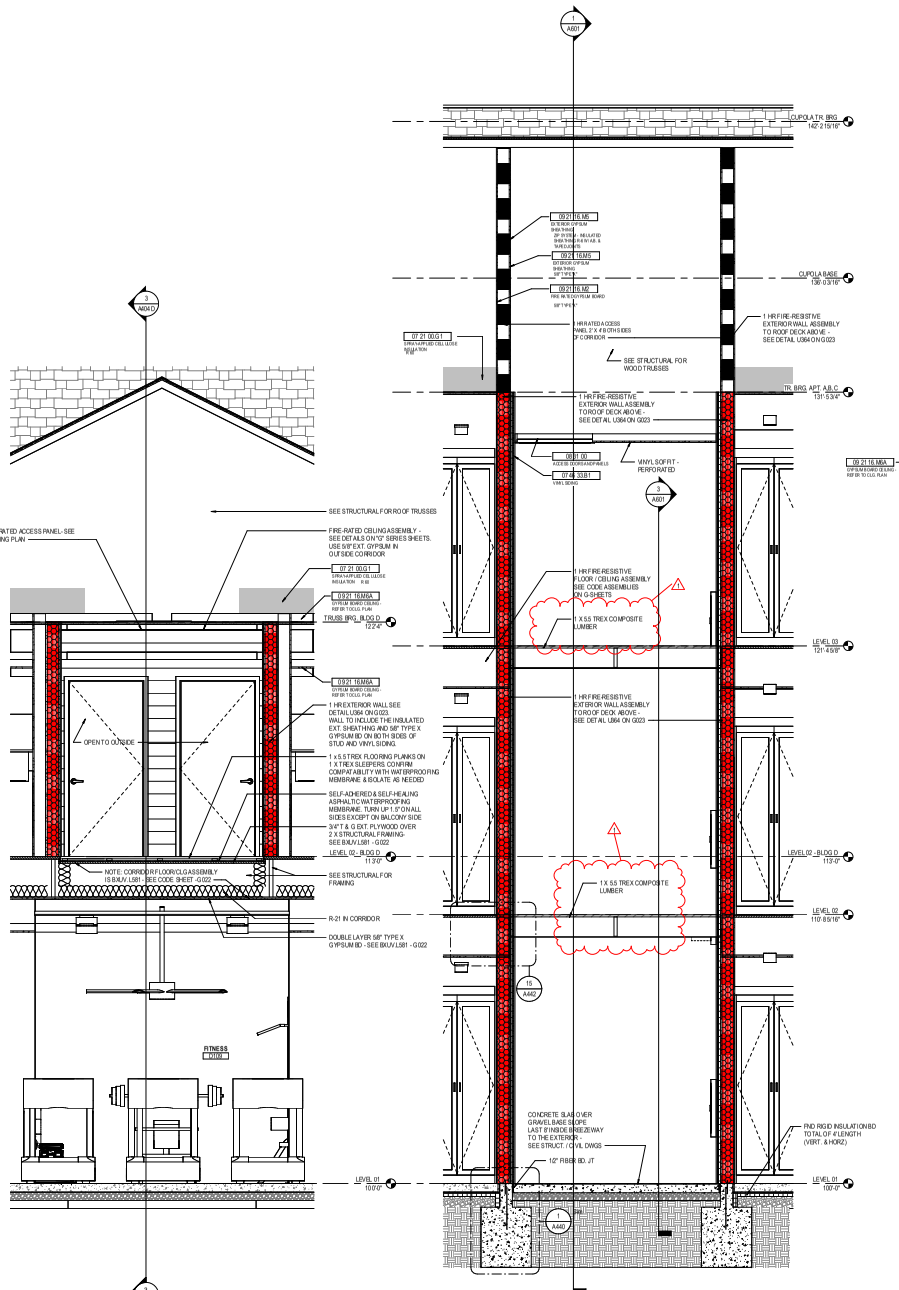
23446

A420

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 2:27:48 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_R23.rvt

© 2025 MOODY NOLAN INC.



4 SECTION
1/2" = 1'-0" BLDG. D - CLUBHOUSE 2ND FL OUTSIDE CORRIDOR
REF: 1 / 102-D

3 DETAIL
1/2" = 1'-0" BLDG. A - SECTION THRU BREEZEWAY
REF: 1 / A601

2 SECTION
1/2" = 1'-0" BLDG. A - WALL SECTION AT BREEZEWAY
REF: 1 / 100-A

5 SECTION
1/2" = 1'-0" SECTION WATER / ELECT. CLOSET
REF: 1 / 100-A

1 SECTION
1/2" = 1'-0" CLUBHOUSE - SECTION AT APT. BALCONY
REF: 1 / 102-D

GENERAL NOTES - WALL SECTIONS

A. REFER TO G SHEETS FOR ADDITIONAL INFORMATION OF FIRE RATINGS FOR FLOORS AND WALLS.
B. ALL METAL EXPOSED TO EXTERIOR CONDITIONS TO BE GALVANIZED.
C. REFER TO ELEVATIONS FOR WINDOW TYPES.
D. SEAL AIR BARRIER CONTINUOUSLY THROUGHOUT ALL ADJACENT SYSTEMS AND STEEL SUPPORTS (TYP.)
E. AIR BARRIER MUST BE CONTINUOUSLY SEALED AT ALL WINDOW FRAMES.
F. ALL RIGID INSULATION IN WALLS OR CURTAINWALL TO BE PROPERLY SEALED AT ALL PENETRATIONS
G. ALL GRADE TO SLOPE AWAY FROM BUILDING.
H. ALL DRIP EDGES TO BE STAINLESS STEEL.
I. ALL FLASHING ON WALLS INTERSECTING ROOF SURFACES TO TURN UP ROOF A MINIMUM OF 8" ADDITIONAL TURN-UP MAY BE REQUIRED BY ROOF MANUFACTURER TO MAINTAIN WARRANTY. REFER TO ROOFING MANUFACTURER'S RECOMMENDED DETAILS FOR ADDITIONAL INFORMATION.
J. RETURN PRISMA PLASTONE BANDING PATTERN AND REVEALS AT ALL WINDOW JAMBS, PILASTERS AND CHANGES IN WALL PLANE.
K. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER. TAPE ALL JOINTS IN INSULATED SHEATHING TO PROVIDE A WATER RESISTANT BARRIER.
L. REFER TO ELEVATIONS AND SPECIFICATIONS FOR LOCATIONS OF CONTROL JOINTS.
M. BATT INSULATION TO HAVE FACING PER ATTACHED SPEC'FICATION.
N. REFER TO WINDOW SHEETS AND INTERIOR SHEETS FOR EXACT LOCATION AND ADDITIONAL INFORMATION REGARDING WINDOW SHADES.
O. COMBUSTIBLE EXTERIOR WALL COVERINGS SHALL BE LIMITED TO 40 FEET IN HEIGHT ABOVE GRADE PLANE.

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 16 00 CT	OSB SHEATHING
06 16 00 C3	INSULATED OSB WALL SHEATHING W.A.B.
06 73 00.A1	NB COMPOSITE WOOD DECKING
06 82 00	MOLDED GLASS FIBER FABRICATIONS
07 21 00.B2	R-21 FIBERGLASS BATT INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 27 00	AIR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.B1	ROOFING FELT, UNDERLAYMENT
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
08 31 00	ACCESS DOORS AND PANELS
09 21 16.M2	FIRE RATED GYPSUM BOARD
09 21 16.M5	EXTERIOR GYPSUM SHEATHING
09 21 16.M6A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

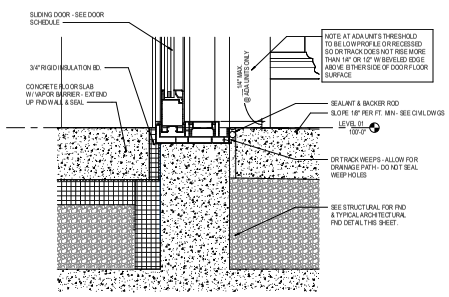
DRAWING TITLE:
WALL SECTIONS - BUILDING A - C & CLUBHOUSE

05/01/2025
23446
A421
CD PROGRESS SET

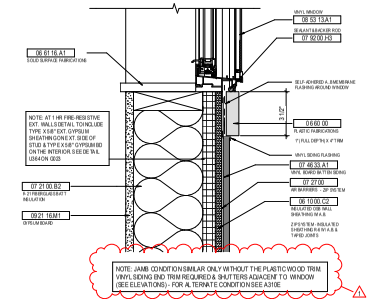
PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:27:53 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R22/23446_CMHA Refugee Rd Housing_R25.rvt

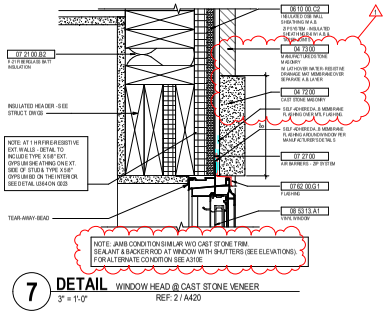
© 2025 MOODY NOLAN INC.



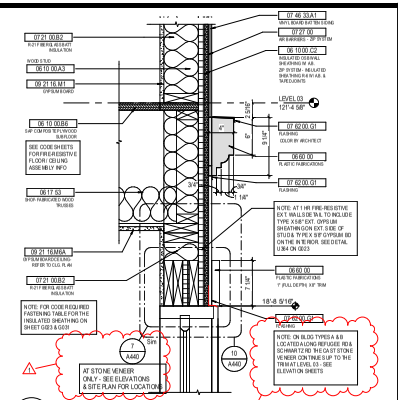
14 **DETAIL** BLDG TYPE A - LEVEL 01 PATIO SLIDING DOOR SILL
3" = 1'-0" REF: 3 / A420



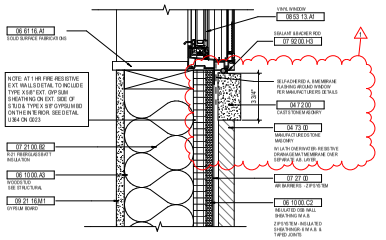
11 **DETAIL** WINDOW SILL @ 3RD FL W/ VINYL SIDING
3" = 1'-0" REF: 1 / A420



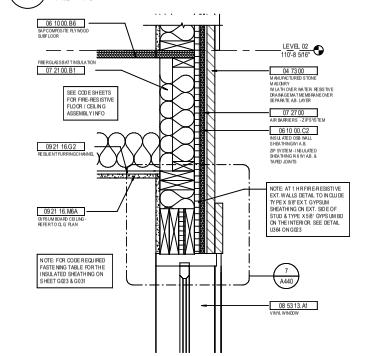
7 **DETAIL** WINDOW HEAD @ CAST STONE VENEER
3" = 1'-0" REF: 2 / A420



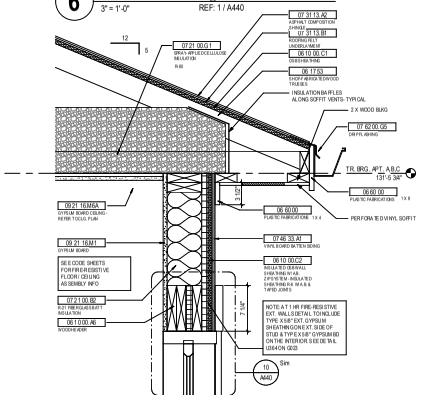
3 **DETAIL** BLDG. TYPE A - AT 3RD FL.
1 1/2" = 1'-0" REF: 1 / A420



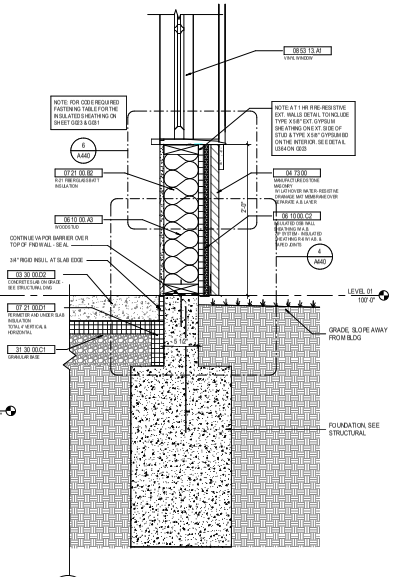
6 **DETAIL** WINDOW SILL @ CAST STONE SIDING - LEVEL 01
3" = 1'-0" REF: 1 / A440

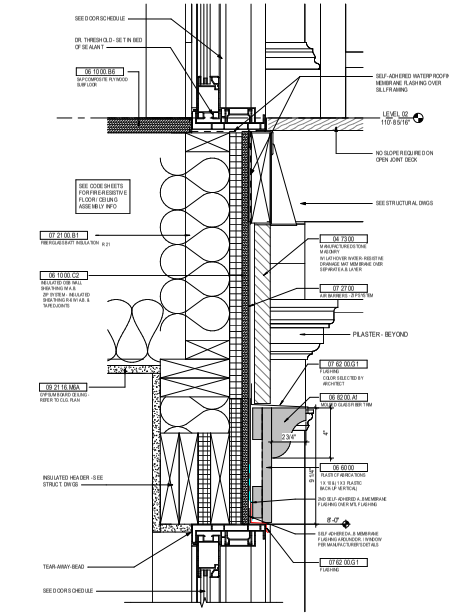


2 **DETAIL** BLDG. TYPE A - AT 2 ND FL. W/ SIDING
1 1/2" = 1'-0" REF: 1 / A420



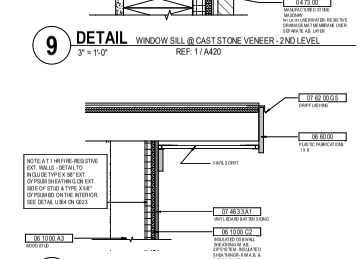
5 **DETAIL** BLDG. TYPE A AT ROOF SOFFIT OVERHANG
1 1/2" = 1'-0" REF: 1 / A420





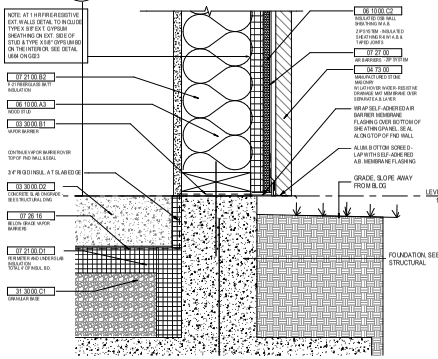
13 **DETAIL** BLDG. TYPE A - 2ND & 3RD FL. SLIDING DR SILL & HEAD
3" = 1'-0" REF: 3 / A420

9 **DETAIL** WINDOW SILL @ CAST STONE VENEER - 2ND LEVEL
3" = 1'-0" REF: 1 / A420



12 **DETAIL** BLDG. TYPE A - 2ND & 3RD FL. BALCONY
1 1/2" = 1'-0" REF: 3 / A420

8 **DETAIL** BLDG. TYPE A AT ROOF PEDIMENT OVERHANG
1 1/2" = 1'-0" REF: 2 / A420



4 **DETAIL** TYPICAL FND SILL
3" = 1'-0" REF: 1 / A440

1 **DETAIL** BLDG. TYPE A - TYPICAL FND
1 1/2" = 1'-0" REF: 1 / A420

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
03 30.00.B1	VAPOR BARRIER
03 30.00.C2	CONCRETE SLAB ON GRADE - SEE STRUCTURAL DWG
04 72 00	CAST STONE MASONRY
04 73 00	MANUFACTURED STONE MASONRY
04 A700	METAL WALL PICK
06 10 00.A3	WOOD STUD
06 10 00.A6	WOOD HEADER
06 10 00.B	PLYWOOD
06 10 00.B6	SAP COMPOSITE PLYWOOD SUBFLOOR
06 10 00.C1	CMU SHEATHING
06 10 00.C2	INSULATED CMU WALL SHEATHING W.A.B.
06 17 53	SHOP-FABRICATED WOOD TRUSSES
06 60 00	PLASTIC FABRICATIONS
06 60 00.1	7" FULL DEPTH X 9" TRIM
06 60 00.2	7" FULL DEPTH X 18" TRIM
07 21 00.B1	FIBERGLASS BATT INSULATION
07 21 00.B2	R-21 FIBERGLASS BATT INSULATION
07 21 00.D1	PERIMETER AND UNDER SLAB INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 26 16	BELOW-GRADE VAPOR BARRIERS
07 27 00	AIR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.B1	ROOFING FELT - UNDERLAYMENT
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 62 00.G1	FLASHING
07 62 00.G5	DRIP FLASHING
07 92 00.H3	SEALANT & BACKER ROD
08 53 13.A1	VINYL WINDOW
09 21 16.G2	RESILIENT FURRING CHANNEL
09 21 16.M1	GYPSUM BOARD
09 21 16.M3A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN
31 30.00.C1	GRANULAR BASE

#	DATE	CHANGE DESCRIPTION
1	06/01/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. CONVENIENCE. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614 461 4664
CERT. NO: FIRM 00197475

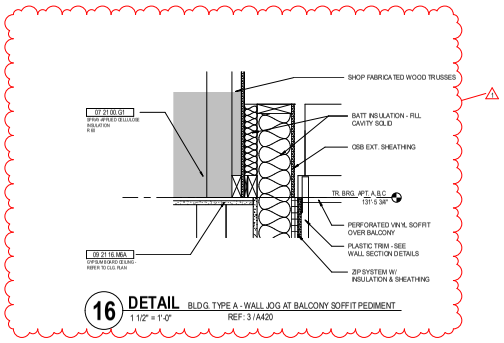
DRAWING TITLE:
EXTERIOR DETAILS - SECTION

05/01/2025
23446
A440
CD PROGRESS SET

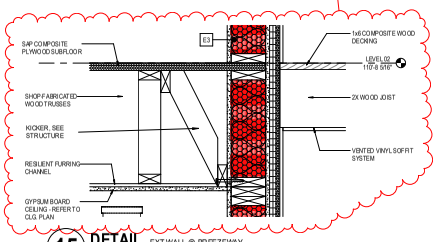
PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:28:06 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Devlpmt - 2025/23446_CMHA Refugee Rd Housing.rvt, A440_PEER.rvt

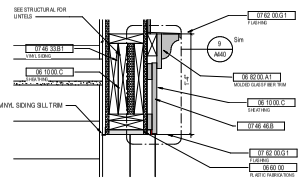
© 2025 MOODY NOLAN, INC.



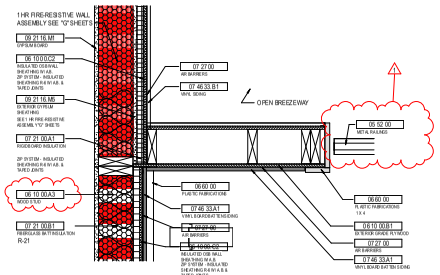
16 DETAIL BLDG. TYPE A - WALL JOG AT BALCONY SOFFIT PEDIMENT
1 1/2" = 1'-0" REF: 3 / A420



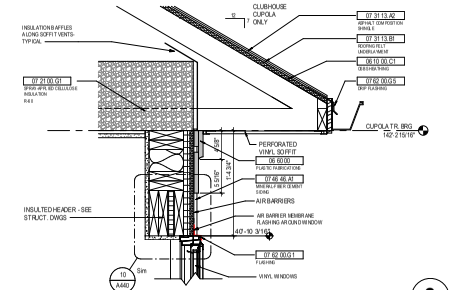
15 DETAIL EXT WALL @ BREEZEWAY
1 1/2" = 1'-0" REF: 3 / A421



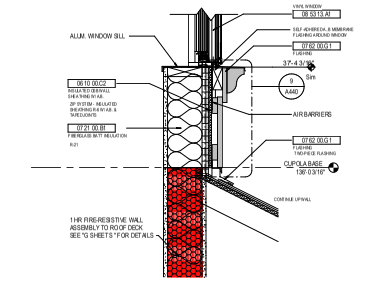
14 DETAIL BREEZEWAY OPNG - HEAD
1 1/2" = 1'-0" REF: 2 / A421



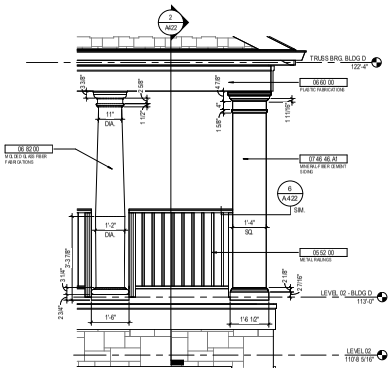
13 DETAIL LEVEL 02 & 03 - BLDG A - BREEZEWAY OPNG JAMB TRIM
1 1/2" = 1'-0" REF: 2 / A101A



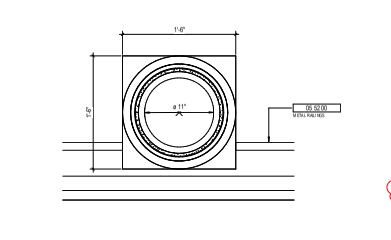
12 DETAIL BLDG. D - CLUBHOUSE AT CUPOLA / WINDOW HEAD
1 1/2" = 1'-0" REF: 4 / A422



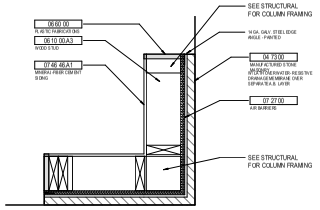
11 DETAIL BLDG. D - CLUBHOUSE AT CUPOLA / WINDOW SILL
1 1/2" = 1'-0" REF: 4 / A422



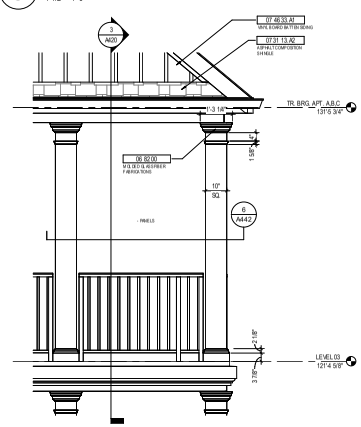
10 ELEVATION LEVEL 02 - CLUBHOUSE BALCONY
1/2" = 1'-0" REF: 2 / 102-D



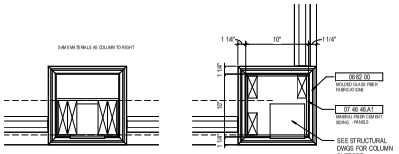
9 DETAIL LEVEL 02 - CLUBHOUSE BALCONY COLUMN
1 1/2" = 1'-0" REF: 2 / A106D



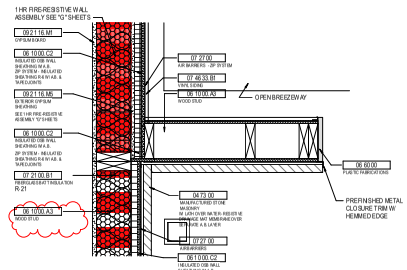
8 DETAIL LEVEL 01 - CLUBHOUSE BALCONY CORNER COLUMN
1 1/2" = 1'-0" REF: 1 / A106D



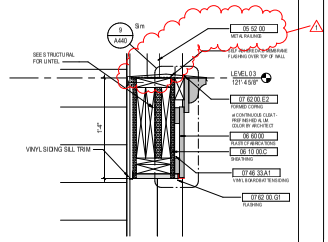
7 ELEVATION BLDG. TYPE A - 3RD FL BALCONY COLUMNS
1/2" = 1'-0" REF: 3 / 100-A



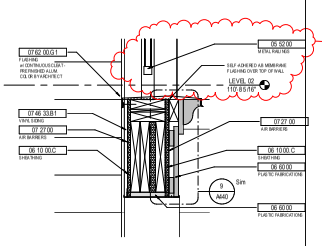
6 DETAIL LEVEL 03 - BALCONY COLUMNS
1 1/2" = 1'-0" REF: 1 / A102A



5 DETAIL LEVEL 01 - BREEZEWAY END WALL
1 1/2" = 1'-0" REF: 1 / A101A



2 DETAIL BREEZEWAY EXT. WALL AT LEVEL 03
1 1/2" = 1'-0" REF: 2 / A421



1 DETAIL BREEZEWAY - EXT. WALL TRIM AT LEVEL 02
1 1/2" = 1'-0" REF: 2 / A421

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 73 00	MANUFACTURED STONE MASONRY
05 52 00	METAL RAILINGS
06 10 00.A3	WOOD STUD
06 10 00.A4	2X WOOD JOIST
06 10 00.B1	EXTERIOR GRADE PLYWOOD
06 10 00.B6	SAP COMPOSITE PLYWOOD SUBFLOOR
06 10 00.C	SHEATHING
06 10 00.C3	OSB SHEATHING
06 10 00.C2	INSULATED OSB WALL SHEATHING W/ A.B.
06 17 53	SHOP FABRICATED WOOD TRUSSES
06 60 00	PLASTIC FABRICATIONS
06 73 00.A1	1x6 COMPOSITE WOOD DECKING
06 82 00	MOULDED GLASS FIBER FABRICATIONS
06 82 00.A1	MOULDED GLASS FIBER TRIM
07 21 00.A1	RIGID BOARD INSULATION
07 21 00.B1	FIBERGLASS BATT INSULATION
07 21 00.G1	SPRAY-APPLIED CELLULOSE INSULATION
07 27 00	AIR BARRIERS
07 31 13.A2	ASPHALT COMPOSITION SHINGLE
07 31 13.B1	ROOFING FELT UNDERLAYMENT
07 46 33.A1	VINYL BOARD BATTEN SIDING
07 46 33.B1	VINYL SIDING
07 46 33.D1	VENTED VINYL SOFFIT SYSTEM
07 46 46.A1	MINERAL FIBER CEMENT SIDING
07 46 46.B	
07 62 00.E2	FORMED COPING
07 62 00.G1	FLASHING
07 62 00.G5	DRIP FLASHING
08 53 13.A1	VINYL WINDOW
09 21 16.C2	RESILIENT FURRING CHANNEL
09 21 16.M1	GYPSUM BOARD
09 21 16.M5	EXTERIOR GYPSUM SHEATHING
09 21 16.M0A	GYPSUM BOARD CEILING - REFER TO CLG. PLAN

#	DATE	CHANGE DESCRIPTION
1	06/01/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
3305 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

THE FALLS ON REFUGEE ROAD

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

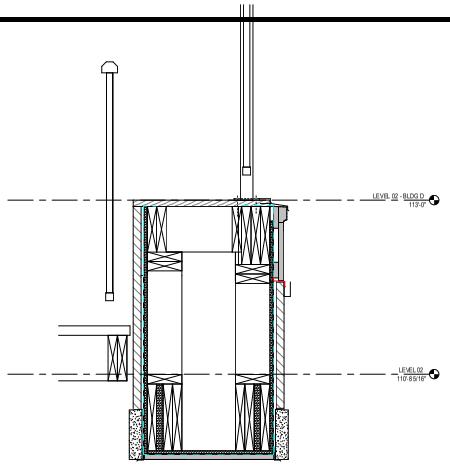
DRAWING TITLE:
EXTERIOR DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

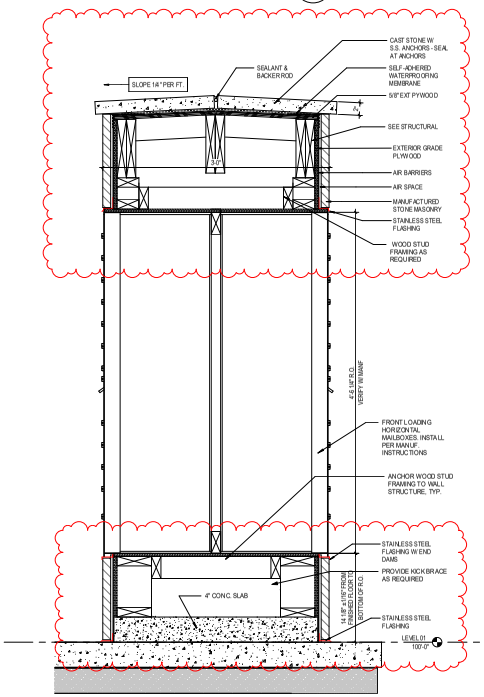
05/01/2025
23446
A442
CD PROGRESS SET

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:28:20 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dwlpmt - R20250346_CMHA Refugee Rd Housing/_R20250346_CMHA Refugee Rd Housing_ARCH_R25.rvt

© 2025 MOODY NOLAN INC.



3 DETAIL CH THRU BALCONY @ 2ND FLOOR
1 1/2" = 1'-0" REF: 1 / A423



2 DETAIL DOUBLE MAILBOXES
1 1/2" = 1'-0" REF: 5 / A310D

1 DETAIL SINGLE MAILBOXES
1 1/2" = 1'-0" REF: 6 / A310D

GENERAL NOTES - EXTERIOR DETAILS

1. X

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
04 00 00.A4	STAINLESS STEEL FLASHING
04 00 00.A17	STAINLESS STEEL FLASHING W/ END DAMS
04 00 00.21	AIR SPACE
04 70 00	MANUFACTURED STONE MASONRY
06 10 00.B1	EXTERIOR GRADE PLYWOOD
07 27 00	AIR BARRIERS

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
OWNERSHIP, OPPORTUNITY, COLLABORATION

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
EXTERIOR DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

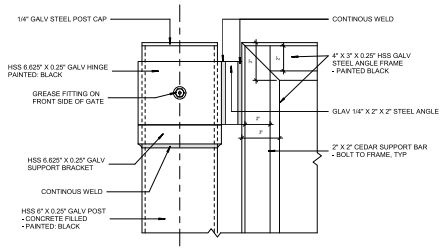
23446

A443

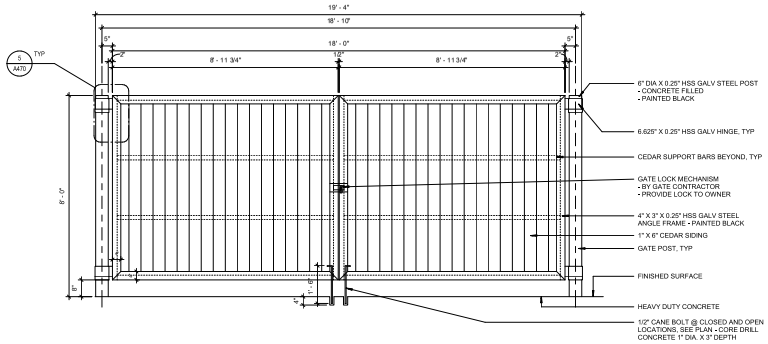
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:23 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dwlpmt - R20250346_CMHA Refugee Rd Housing_ARCH_R23.rvt

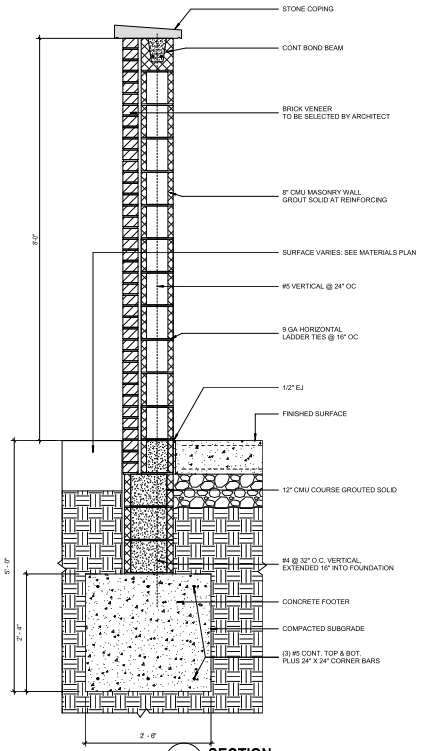
© 2025 MOODY NOLAN INC.



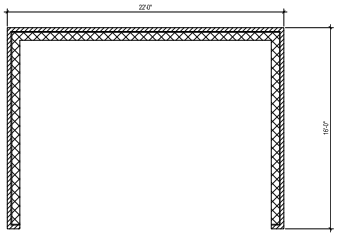
5 DETAIL HINGE DETAIL
3" = 1'-0" REF: 4 / A470



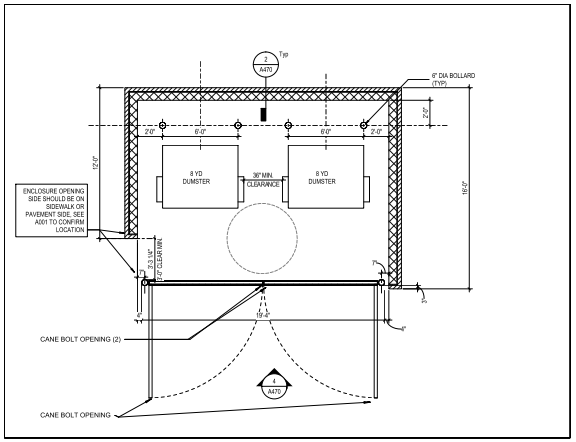
4 ELEVATION DUMPSTER ENCLOSURE DOUBLE GATE - EXTERIOR
1/2" = 1'-0" REF: 1 / A470



2 SECTION DUMPSTER ENCLOSURE BRICK WALL SECTION
1" = 1'-0" REF: 1 / A470



3 PLAN BULK WASTE ENCLOSURE
1/4" = 1'-0"



1 PLAN DUMPSTER ENCLOSURE
1/4" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM #01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
DUMPSTER ENCLOSURE DETAILS

05/01/2025
23446
A470
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2021
PRINT DATE: 6/11/2025 5:46:16 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Depart_R22023446_CMHA Refugee Rd Housing_MECH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

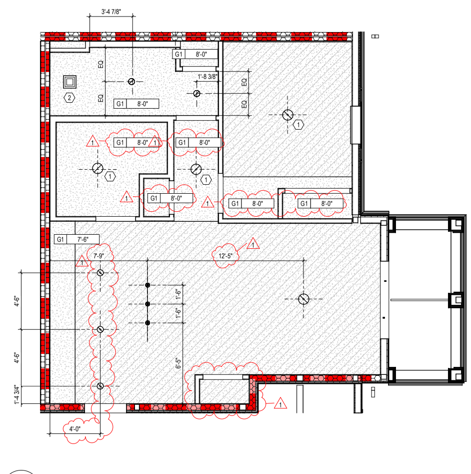
Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

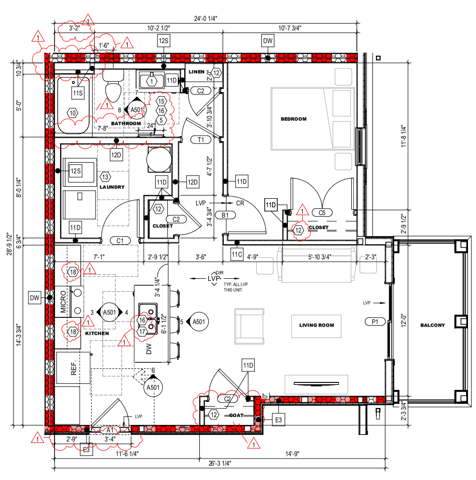
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

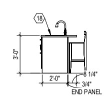
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



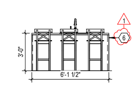
2 RCP 1- BED UNIT (ANSI TYPE B)
1/4" = 1'-0"



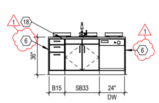
1 ENLARGED PLAN 1-BED UNIT (ANSI TYPE B)
1/4" = 1'-0" REF: 2 / A101A



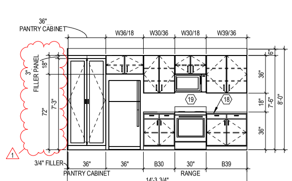
6 ELEVATION ISLAND END ELEVATION
1/4" = 1'-0" REF: 2 / 100-A



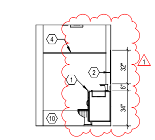
5 ELEVATION ISLAND - BACK SIDE ELEVATION
1/4" = 1'-0" REF: 2 / 100-A



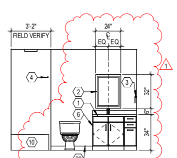
4 ELEVATION KITCHEN TYPE B ISLAND
1/4" = 1'-0" REF: 1 / A501



3 ELEVATION KITCHEN TYPE B
1/4" = 1'-0" REF: 1 / A501



8 ELEVATION BATHROOM 1 TUB WALL
1/4" = 1'-0" REF: 2 / 100-A



7 ELEVATION BATHROOM 1 WET WALL
1/4" = 1'-0" REF: 2 / 100-A

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

(#) CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED);BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

(R#) CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 1 BED

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A501
CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:33 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

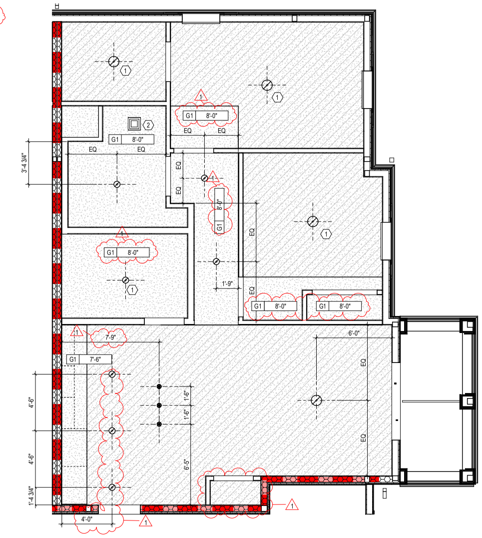
Division	Schedule Abbreviation	
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

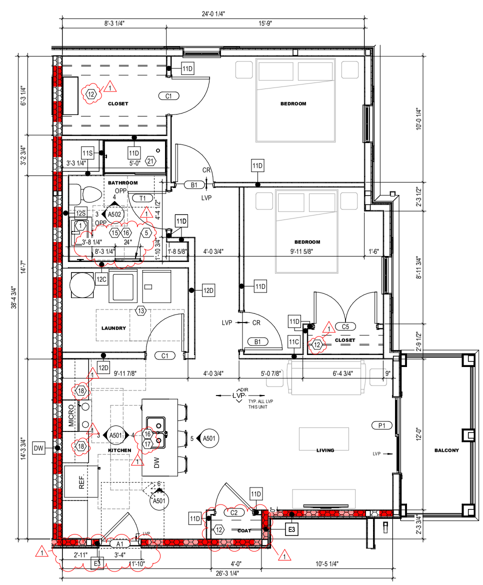
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

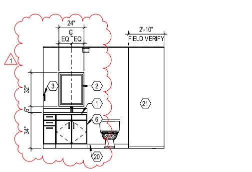
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



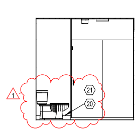
2 RCP 2 BED - UNIT (ANSI TYPE B)
1/4" = 1'-0"



1 ENLARGED PLAN 2 - BED UNIT (ANSI TYPE B)
1/4" = 1'-0" REF: 2 / A101A



3 ELEVATION BATHROOM 2 WET WALL
1/4" = 1'-0" REF: 2 / 100-A



4 ELEVATION BATHROOM 2 SHOWER WALL
1/4" = 1'-0" REF: 2 / 100-A

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION. THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1-2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION, REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED),BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF ADJUSTABLE), UTILITY (1 SHELF- FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCP'S. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA
COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BED

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A502
CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:36 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

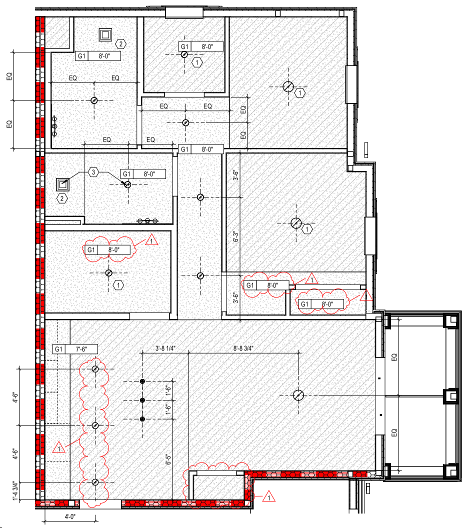
Division	Schedule Abbreviation	
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

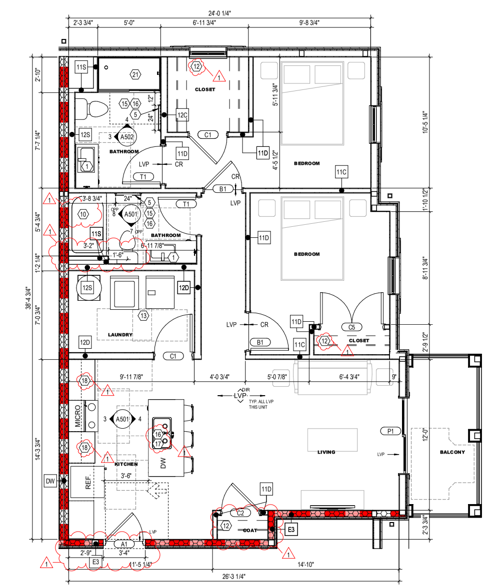
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



2 RCP 2 BEDROOM 2 BA
1/4" = 1'-0"



1 ENLARGED PLAN 2 BEDROOM 2 BA UNIT
1/4" = 1'-0"
REF: 1 / A105C

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS. LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED);BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE); UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BED 2 BA

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A503
CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:39 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

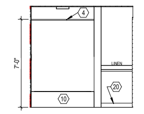
UNIT FINISH SCHEDULE

ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

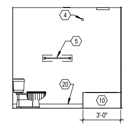
GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).

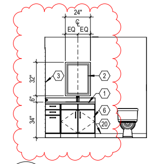
© 2025 MOODY NOLAN INC.



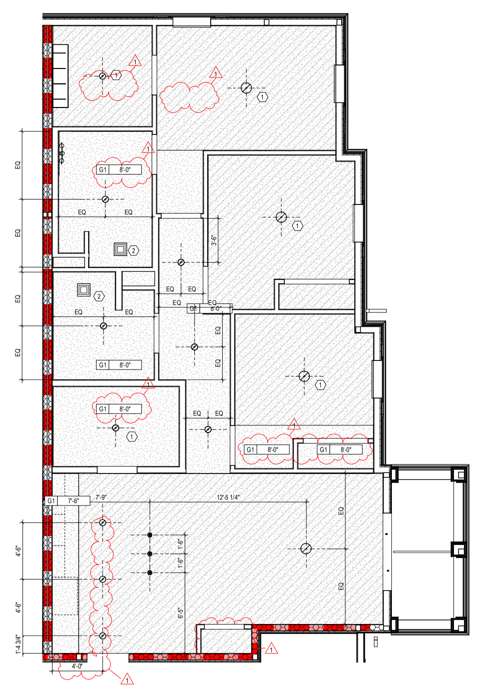
5 ELEVATION BATHROOM 3 - TUB WALL
1/4" = 1'-0" REF: 1 / A504



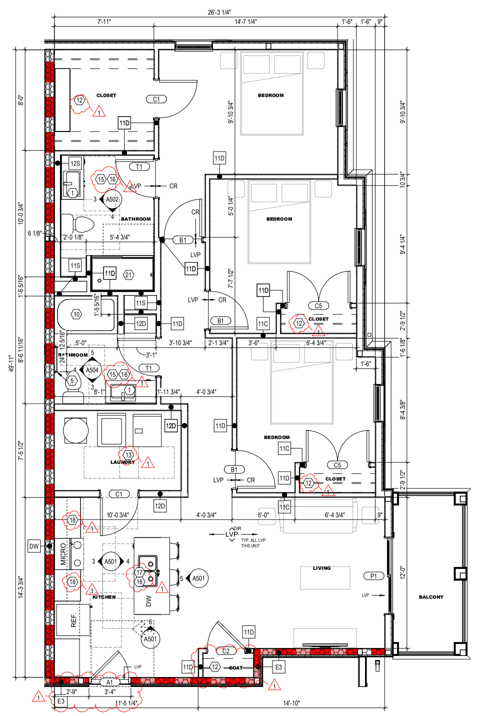
4 ELEVATION BATHROOM 3
1/4" = 1'-0" REF: 1 / A504



3 ELEVATION BATHROOM 3 WET WALL
1/4" = 1'-0" REF: 1 / A504



2 RCP 3 BEDROOM UNIT
1/4" = 1'-0"



1 ENLARGED PLAN 3 BEDROOM UNIT
1/4" = 1'-0" REF: 2 / A103B

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT.
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS. LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED),BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 3 BED

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A504
CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:43 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

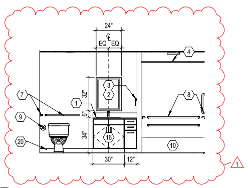
Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

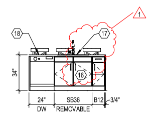
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

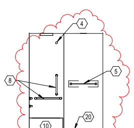
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



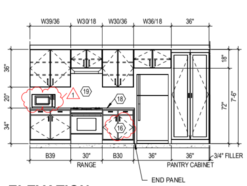
6 ELEVATION BATHROOM 4 TUB WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / 100-A



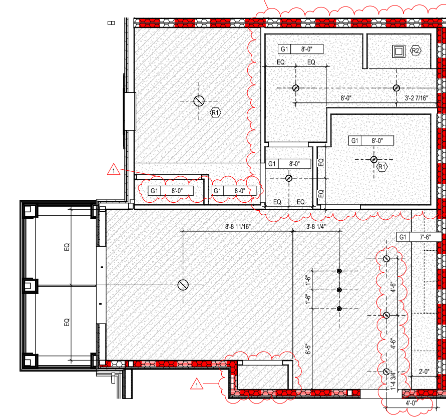
4 ELEVATION ISLAND - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A505



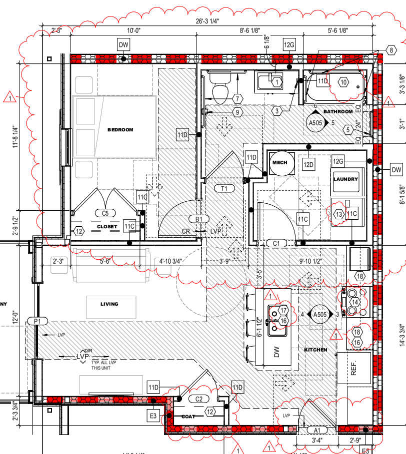
5 ELEVATION BATHROOM 4 TOILET WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / 100-A



3 ELEVATION KITCHEN ANSI TYPE - A
1/4" = 1'-0" REF: 1 / A505



2 RCP 1 BED - ANSI TYPE A
1/4" = 1'-0"



1 ENLARGED PLAN 1 BED - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A101A

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

(#) CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS. LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED),BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF , FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

(R#) CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 1 BED ANSI TYPE A

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A505
CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:47 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

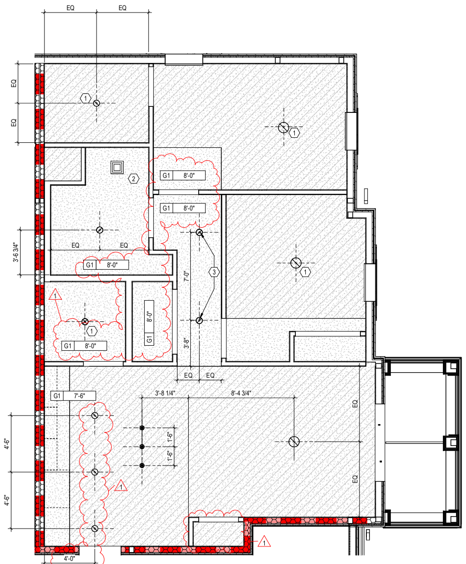
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

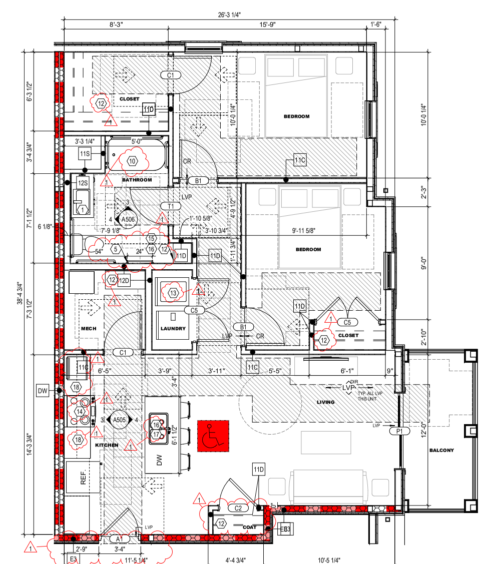
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

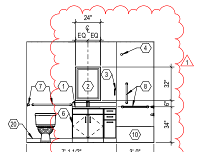
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



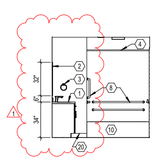
2 RCP 2 BEDROOM - ANSI TYPE A
1/4" = 1'-0"



1 ENLARGED PLAN 2 BEDROOM - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A105C



4 ELEVATION BATHROOM 5 WET WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A506



3 ELEVATION BATHROOM 5 TUB WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A506

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

(#) CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS. LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED);BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE); UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

(R#) CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 2 BED ANSI TYPE A

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

A506

CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:51 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

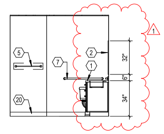
Division	Schedule Abbreviation	
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

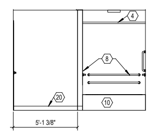
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

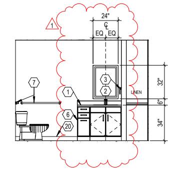
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



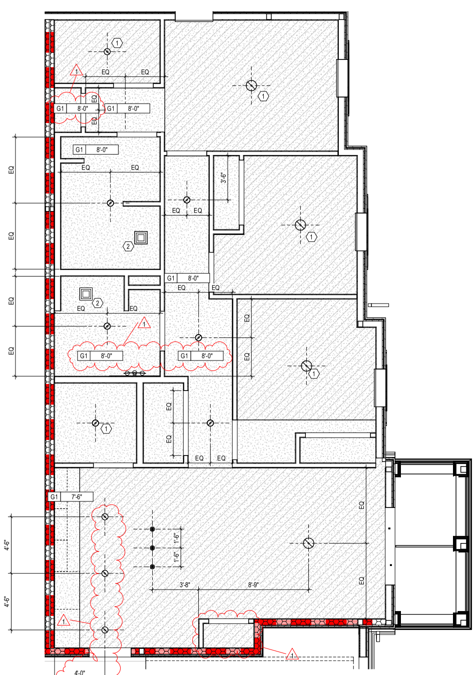
5 ELEVATION BATHROOM 5 TOILET WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A507



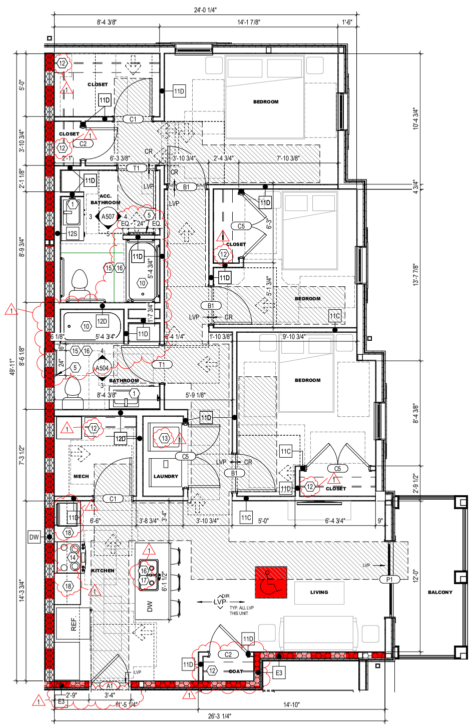
4 ELEVATION BATHROOM 5 SHOWER WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A507



3 ELEVATION BATHROOM 6 LAV WALL - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A507



2 RCP 3 BEDROOM UNIT - ANSI TYPE A
1/4" = 1'-0"



1 ENLARGED PLAN 3 BEDROOM - ANSI TYPE A
1/4" = 1'-0" REF: 1 / A103B

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID, SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED);BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE); UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS. OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - 3 BED ANSI TYPE A

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A507
CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:56 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

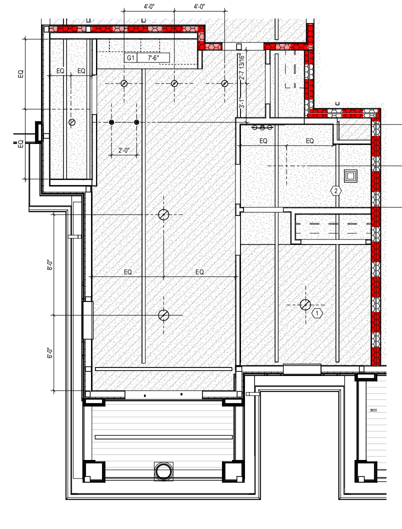
Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

UNIT FINISH SCHEDULE

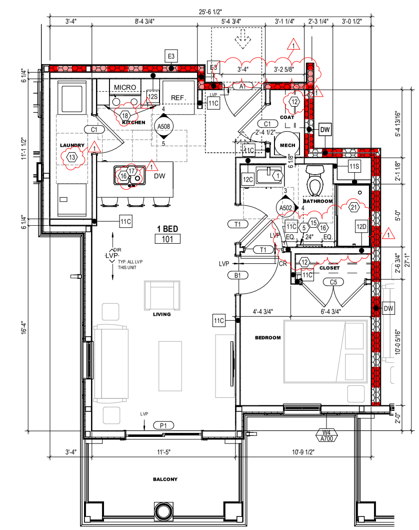
ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

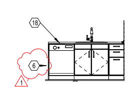
KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).



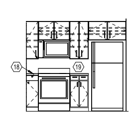
2 RCP 1 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0"



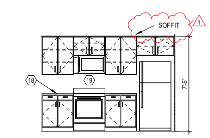
1 PLAN 1 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0"



5 ELEVATION ISLAND - CLUBHOUSE UNITS
1/4" = 1'-0" REF: 1 / A508



4 ELEVATION KITCHEN - 1 BED CLUBHOUSE
1/4" = 1'-0" REF: 1 / A508



3 ELEVATION KITCHEN - 3 BED CLUBHOUSE
1/4" = 1'-0" REF: 1 / A509

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.

1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT. PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED),BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - CLUBHOUSE

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A508
CD PROGRESS SET

© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:59 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

UNIT FINISH SCHEDULE

ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:
A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT. TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:
1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).

DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	8'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HIDGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

GENERAL NOTES - ENLARGED UNIT RCP

A. PAINT DESIGNATED FOR EXPOSED OVERHEAD STRUCTURE TO INCLUDE ALL EXPOSED COMPONENTS INCLUDING (BUT NOT EXCLUSIVE TO) DECKING, STRUCTURAL MEMBERS, MECHANICAL & ELECTRICAL DELIVERY SYSTEMS, FIRE PROTECTION SYSTEMS (EXCLUDING SPRINKLER HEADS), AND ALL OTHER MISC. BUILDING SYSTEMS LOCATED OVERHEAD. EACH OF THE AFOREMENTIONED CATEGORIES TO INCLUDE ANY AND ALL ASSOCIATED SUPPORTS, FASTENERS, HANGERS, STRUTS, BRACES, BRACKETS, ETC.
B. LIGHT FIXTURES SHOWN TO INDICATE PROPOSED FIXTURES & GENERAL DESIGN INTENT.
C. FINISHED CEILING HEIGHTS ARE FROM TOP OF FINISH FLOOR, U.N.O.
D. COORDINATE LOCATION OF FIXTURES WITH STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION DRAWINGS. ANY CONFLICT BETWEEN TRADES, NOTIFY ARCHITECT PRIOR TO INSTALLATION.
E. FACE OF BULKHEADS SHALL ALIGN WITH FACE OF ADJACENT WALLS TO WHICH BULKHEADS ARE PARALLEL, U.N.O. OR DIMENSIONED.
F. PAINT DUCTWORK INSIDE AIR GRILLES FLAT COLOR.
G. ALL GYPSUM BOARD SOFFITS & CEILINGS TO BE PAINTED FLAT CEILING WHITE, U.N.O.
H. CEILING GRIDS ARE CENTERED ON ROOM, U.N.O. OR DIMENSIONED.
I. ALL CEILING DEVICES TO BE CENTERED IN TILE, U.N.O.
J. WHERE EXIT SIGNS OCCUR OVER A DOOR OR PAIR OF DOORS, CENTER SIGN ON DOOR OPENING.
K. GYPSUM BOARD CEILINGS FRAMED TO THE UNDERSIDE OF WOOD TRUSSES SHALL BE INSTALLED TIGHT TO THE BOTTOM CHORD WITH A 1/2 INCH RESILIENT CHANNEL. CEILINGS BELOW 2x WOOD FRAMING SHALL MATCH THE HEIGHT OF THE CEILINGS BELOW THE WOOD TRUSSES UNLESS NOTED OTHERWISE. ALL CEILING ASSEMBLIES AND WALLS MUST MAINTAIN THE INTEGRITY OF THE FIRE RATED CEILING ASSEMBLIES.
L. SEE ELECTRICAL DRAWINGS FOR REQUIRED ELECTRICAL DEVICES. OVERALL FLOOR RCP'S SHOW GENERAL LOCATION OF CANS IN PUBLIC CORRIDORS.
M. CONTINUE RATED GYPSUM BOARD ABOVE ANY DROP CEILINGS AND SOFFITS.
N. COORDINATE FINAL SOFFIT LOCATION WITH FINAL CABINET LAYOUT.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE SCRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATIONS OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

CODED NOTES - ENLARGED UNIT PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.
1. VANITY COUNTER WITH RADIUSED CORNERS, INTEGRAL BOWL AND BACKSPLASH. ALL VANITY COUNTERS AND SINK RIM TO BE AT 34" MAX A.F.F. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. SQUARE EDGE LIGHTED VANITY MIRROR, REFER TO ELECTRICAL DRAWINGS. REVIEW FINAL SIZE WITH OWNER. MOUNT CENTERED ABOVE VANITY SINK.
3. TOWEL RING, 1 PER BATH.
4. SHOWER CURTAIN ROD. PROVIDE BLOCKING AS REQUIRED.
5. TOWEL BAR, MIN. 1 PER BATH.
6. FINISH END OR BACK PANEL, TYPICAL.
7. WC GRAB BARS.
8. SHOWER/ TUB GRAB BARS.
9. TOILET PAPER HOLDER, 1 PER BATH.
10. PREFABRICATED TUB. IN ANSI TYPE A UNITS, PROVIDE REINFORCED GRAB BARS AND REMOVABLE IN-TUB SEAT. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
11. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
12. CLOSET SHELF. SEE UNIT DETAILS FOR TYPE BY LOCATION.
13. FRONT LOAD MACHINES REQUIRED PER ANSI A117.1-2017 (1104.10(C))
14. ANSI TYPE A UNITS: RANGE WITH FRONT MOUNTED CONTROLS. TOP SURFACE OF RANGE TO BE MOUNTED FLUSH WITH ADJACENT COUNTER HEIGHT, PROVIDE SKIRT BELOW RANGE AS NEEDED.
15. IN BATHS REQUIRED TO BE ACCESSIBLE, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT BATHING FIXTURES AND TOILETS. IN NON-ACCESSIBLE BATHS AND AT ALL TYPICAL UNIT BATHS, PROVIDE IN-WALL BLOCKING FOR FUTURE INSTALLATION OF GRAB BARS AT BATHING FIXTURE AND TOILET LOCATIONS.
16. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS, LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
17. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
18. KITCHEN COUNTER WITH COUNTERTOP METAL SUPPORTS, WITH EASED EDGES. TOP OF COUNTER AT 34" A.F.F. IN ANSI TYPE A UNITS AND 36" A.F.F. IN ANSI TYPE B UNITS, TYPICAL.
19. TILE BACKSPLASH.
20. WALL BASE. REFER TO FINISH SCHEDULE.
21. PREFABRICATED SHOWER ENCLOSURE. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

GENERAL NOTES - ENLARGED UNIT PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ALL UNITS TYPICAL UNLESS NOTED OTHERWISE. SEE ENLARGED FLOOR PLANS FOR UNIT TYPE AND ADDITIONAL INFORMATION.
F. RESIDENTIAL UNITS: TYPE B DENOTES ANSI TYPE B AND TYPE A DENOTES ANSI TYPE A. UNITS SHALL COMPLY WITH THE ACCESSIBILITY REQUIREMENTS REFERENCED ON THE CODE INFORMATION, THIS INCLUDES BUT IS NOT LIMITED TO ANSI A117.1- 2017. ALL FIRST FLOOR UNITS TO BE ANSI TYPE A OR TYPE B.
G. ACCESSIBLE ROUTE WIDTH WITHIN UNITS SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
H. PROVIDE WOOD BLOCKING ON ALL RESIDENTIAL TYPE A AND TYPE B UNITS IN BATHS AND AS INDICATED ON UNIT DETAILS SHEETS (A820 SERIES). SEE A100 AND A500 SERIES SHEETS FOR TYPE A & B UNIT LOCATIONS AND LAYOUTS. ALL UNITS TO RECEIVE BLOCKING FOR GRAB BARS (TYPE A UNITS) AND FUTURE GRAB BARS (TYPE B UNITS). SEE UNIT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
I. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
J. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN RESIDENTIAL AND PUBLIC AREAS SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
K. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
L. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
M. REFER TO MEP DWGS. FOR LOCATION OF ERV UNITS AT ALL DWELLING UNITS.
N. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE UNIT DETAILS SHEETS FOR REQUIREMENTS.
O. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
P. RESIDENTIAL UNITS TO RECEIVE A STANDARD SHOWER WITH DOOR OR TUB AS NOTED IN PLANS (TYPE B UNITS AND NON-ACCESSIBLE BATH IN TYPE A UNITS). BATH TUBS WITH REMOVABLE SEATS (ACCESSIBLE BATH IN TYPE A UNITS). BLOCKING FOR INSTALLATION OF GRAB BARS AND OTHER SHOWER FIXTURES TO BE FACTORY INSTALLED IN PREFABRICATED UNITS. WALL ROUGH FRAMING DIMENSION REQUIREMENTS MUST BE COORDINATED WITH SELECTED SHOWER UNIT. NOTE THAT THESE DIMENSIONS TEND TO VARY PER MANUFACTURER. SEE UNIT DETAILS SHEETS FOR LAYOUT OF SHOWER BLOCKING AND FIXTURES. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND FIXTURE INFO.
Q. PROVIDE BLOCKING FOR CURVED SHOWER RODS, LOCATED DIRECTLY ABOVE THE TOP OF THE TUB ENCLOSURE (WITHOUT DOORS).
R. LAUNDRY ROOM DRYER VENTING LOCATIONS SHALL BE COORDINATED WITH ARCHITECT. ROUTING SHALL NOT EXCEED 35 FEET WITH ONLY ONE BEND. LABEL LENGTH OF ANY DRYER VENTING DUCT ON THE LAUNDRY ROOMS PER REQUIREMENT BY THE CITY OF COLUMBUS.
S. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
T. RANGES IN TYPE A UNITS ARE SLIDE-IN TYPE WITH FRONT CONTROLS IN ACCESSIBLE REACH RANGES. USE OF OVEN AND RANGE CONTROLS MUST NOT REQUIRE REACHING ACROSS THE BURNERS. SEE THE SPECIFICATIONS FOR APPLIANCE REQUIREMENTS. COOKTOP TO ALIGN WITH TOP OF COUNTERTOP.
U. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER RESIDENTIAL TOILET OR UNIT ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE UNIT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
V. ALL UNIT RANGE HOODS TO BE DUCTED AND VENTED TO EXTERIOR. SEE ELECTRICAL INFORMATION. INSTALL PER ENERGY-STAR CERTIFICATION AND LEED REQUIREMENTS.
W. ALL UNIT APPLIANCES INCLUDED IN BASE BID. SEE SPECS. UNIT APPLIANCES TO BE STAINLESS STEEL AND ENERGY-STAR CERTIFIED WHERE APPLICABLE.
X. ALL UNIT PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
AA. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION 36 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
BB. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 15 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
CC. IN ANSI TYPE A UNITS, SWITCHES, ELECTRICAL OUTLETS & PANELS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS MUST BE IN ACCESSIBLE LOCATIONS. KITCHENS AND BATHROOMS MUST BE USABLE.
DD. ELECTRICAL PANELS ON ANSI TYPE A AND FIRST FLOOR ANSI TYPE B RESIDENTIAL UNITS SHALL BE INSTALLED SO THE OPERABLE COMPONENTS ARE NO HIGHER THAN 48 INCHES A.F.F. OR LOWER THAN 18 INCHES A.F.F.
EE. KITCHEN SINKS AT TYPE A UNITS SHALL INCLUDE REAR DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
FF. PROVIDE LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS.
GG. AT TYPE A UNITS, THE FLUSH CONTROL FOR THE WATER CLOSET WILL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
HH. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
II. EXTEND FINISH FLOOR MATERIAL UNDER KITCHEN APPLIANCES, VANITY IN ALL BATHS AND UNDERNEATH REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK.
JJ. SIDES OF RANGE OR OPEN WORK AREAS BELOW BASE CABINETS MUST BE COVERED BY FINISHED END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF WALL AND BASE CABINETS SHALL HAVE FINISH PANELS ON ALL EXPOSED TO VIEW.
KK. UNIT FLOOR FINISHES TO BE 'WOOD-LOOK' RESILIENT FLOORING IN ALL ROOMS. SEE UNIT DETAILS SHEETS AND FINISH PLANS (A900 SERIES) FOR EXTENT OF FINISHES AT ALL UNITS.
LL. PROVIDE ONE MIRROR FOR EACH UNIT BATH. MIRROR WIDTH AS SHOWN ON BATH ELEVATIONS, TYPICAL. SEE UNIT DETAILS SHEETS (A820 SERIES) AND MOUNTING HEIGHTS (A500) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
MM. SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
NN. ALL RESIDENTIAL UNIT WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
OO. PROVIDE ONE DOOR VIEWER AT THE TYPE B UNIT ENTRY DOOR AND TWO DOOR VIEWERS AT THE TYPE A UNIT ENTRY DOOR.
PP. WIRE SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF THE CLOSET AS FOLLOWS: BEDROOM & COAT CLOSET (1 SHELF AND ROD FIXED),BEDROOM WALK IN CLOSET(2 SHELVS AND ROD FIXED) LINEN CLOSET (5 SHELF, ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE UNIT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS.
QQ. ALL RESIDENTIAL UNITS TO RECEIVE GRANITE (3CM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. BATHS TO RECEIVE CULTURED MARBLE COUNTERTOPS WITH INTEGRAL BOWLS.
RR. IN TYPE A UNITS, ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHEN OR BATH SINK RIM. ON TYPE B UNITS, ALL VANITY COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF BATH SINK RIM.
SS. AT TYPE A UNIT COUNTERTOPS, MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE UNIT DETAILS SHEETS.
TT. UNITS MAY BE OPPOSITE HAND OF THOSE SHOWN ON ENLARGED UNIT PLANS AND RCPS. SEE OVERALL FLOOR PLANS FOR LOCATIONS AND ORIENTATION OF UNITS.
UU. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

CODED NOTES - ENLARGED UNIT RCP

1. CENTER FIXTURE IN ROOM/HALL
2. CENTER EXHAUST FAN ABOVE SHOWER/TUB
3. ALIGN FIXTURES

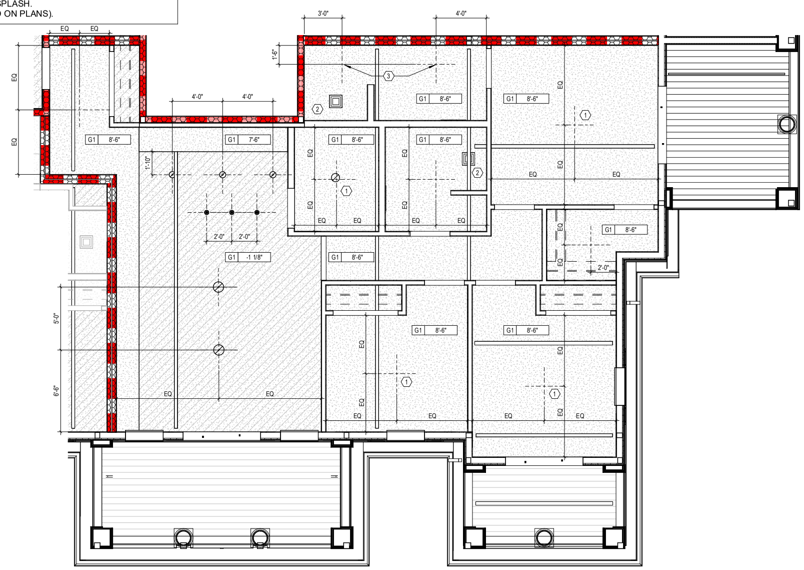
LEGEND - ENLARGED UNIT PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

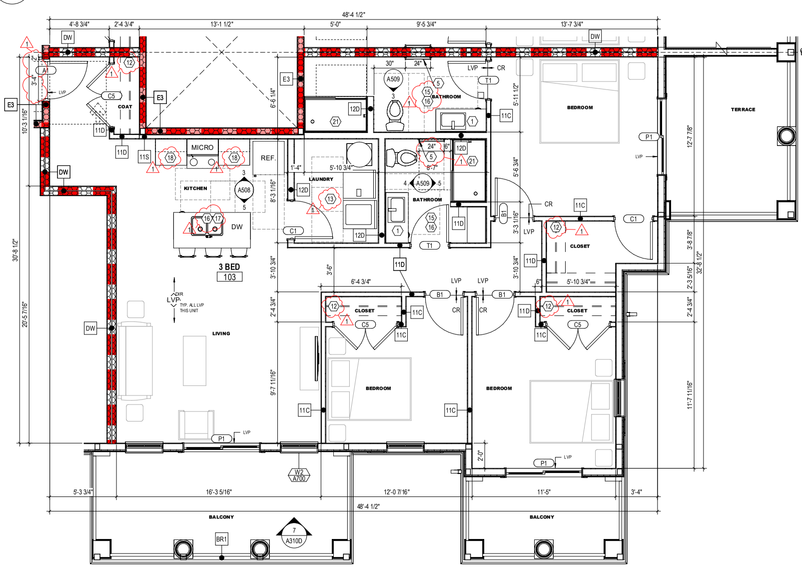
LEGEND - ENLARGED UNIT RCP

- G1 GYPSUM BOARD CEILING OR SOFFIT (RATED CEILING INSTALLED DIRECTLY TO STRUCTURE)
- G2 RATED GYPSUM BOARD CEILING OR SOFFIT (ADDITIONAL LOWER CEILING)
- FLOOR AND ROOF TRUSS ASSEMBLY SYSTEM
- VINYL SOFFIT
- 2x2 SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (SHADING DENOTES EMERGENCY FIXTURE)
- SURFACE MOUNTED LIGHT FIXTURE (UNIT)
- PENDANT LIGHT FIXTURE
- SUSPENDED LINEAR LIGHT FIXTURE
- WALL MOUNTED VANITY LIGHT FIXTURE
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- EXHAUST/RETURN GRILLE
- ACCESS PANEL
- XX XX'-XX" CEILING TAG WITH HEIGHT

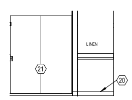
NOTE: COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS WITH THE MECHANICAL AND ELECTRICAL DRAWINGS FOR NUMBER OF, AND LOCATIONS OF, AND TYPES OF FIXTURES AND GRILLES. NOT ALL ITEMS SHOWN ON LEGEND MAY BE PRESENT IN PROJECT.



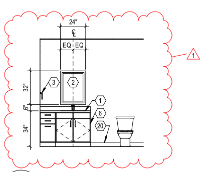
2 RCP 3 BEDROOM UNIT ABOVE CLUBHOUSE
1/4" = 1'-0"



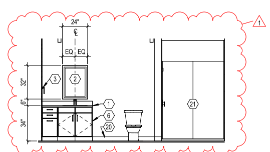
1 ENLARGED PLAN 3 BEDROOM UNIT ABOVE CLUBHOUSE
REF: 2 / A106D
1/4" = 1'-0"



5 ELEVATION BATHROOM 6 SHOWER WALL
REF: 2 / 102-D
1/4" = 1'-0"



4 ELEVATION BATHROOM 6 WET WALL
REF: 2 / 102-D
1/4" = 1'-0"



3 ELEVATION BATHROOM 5 SHOWER WALL
REF: 2 / 102-D
1/4" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLANS - CLUBHOUSE

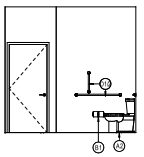
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
A509
CD PROGRESS SET

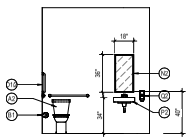
© 2025 MOODY NOLAN INC.

REVIT VERSION: 2023
PRINT DATE: 6/11/2025 2:29:03 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dvlpmt - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

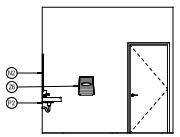
© 2025 MOODY NOLAN, INC.



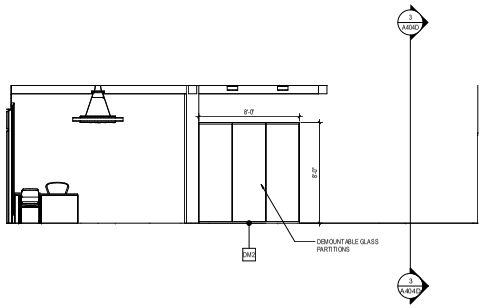
4 ELEVATION RESTROOM D104.3
1/4" = 1'-0" REF: 1 / 102-D



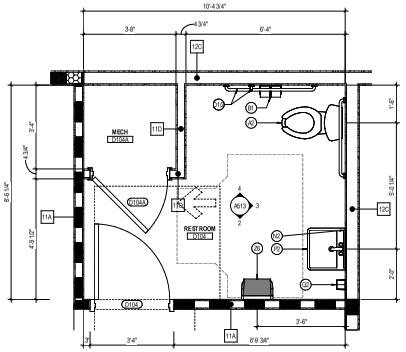
3 ELEVATION RESTROOM D104.2
1/4" = 1'-0" REF: 1 / 102-D



2 ELEVATION RESTROOM D104.1
1/4" = 1'-0" REF: 1 / 102-D



5 ELEVATION GALLERY/LOBBY - WEST WALL
1/4" = 1'-0" REF: 1 / 102-D



1 PLAN RESTROOM D104
1/2" = 1'-0"

GENERAL NOTES - ENLARGED PLANS

A. ALL DIMENSIONS ARE TO FINISH FACE OF WALL U.N.O.
B. WALLS ARE 2x WOOD FRAMING U.N.O. SEE SHEET G200 FOR PARTITION INFO.
C. EXTERIOR WALL CONDITIONS VARY. REFER TO OVERALL FLOOR PLAN SHEETS FOR EXTERIOR WALL AND WINDOW CONDITIONS.
D. SEE FINISH SCHEDULE FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
E. ACCESSIBLE ROUTE WIDTH SHALL BE 36" MINIMUM, CONTINUOUS AND UNOBSTRUCTED, CONNECTING ACCESSIBLE ELEMENTS AND SPACES.
F. PROVIDE WOOD BLOCKING AS INDICATED ON PROJECT DETAILS SHEETS (A500 SERIES). SEE PROJECT DETAILS SHEETS ON FOR LENGTHS AND LOCATIONS OF GRAB BARS.
G. PROVIDE WOOD BLOCKING AS REQUIRED TO MOUNT MILLWORK, MEP DEVICES AND ALL FIXTURES.
H. ALL DOOR OPENINGS INTO USABLE / OCCUPIED ROOMS IN CLUBHOUSE SHALL BE MINIMUM 32 INCHES CLEAR OR GREATER.
I. COORDINATE TRUSS LAYOUT AND DESIGN WITH MECHANICAL, ELECTRICAL AND PLUMBING LAYOUT PRIOR TO FABRICATION. TRUSS SHOP DRAWINGS SHALL INDICATE PLUMBING LINES AND HVAC DUCTS. PROVIDE COORDINATION DRAWING TO ARCHITECT. FRAMING CONTRACTOR SHALL COORDINATE TRUSS FRAMING OFFSETS AS REQUIRED TO ACCOMMODATE SANITARY LINES AND OTHER MEP EQUIPMENT / FIXTURES.
J. INSTALL ACOUSTIC BATT INSULATION AT PARTITIONS WITH PLUMBING STACKS, DEMISING WALLS AND FLOOR / CEILING ASSEMBLIES.
K. WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES AND SINKS MUST BE INSULATED TO PROTECT AGAINST CONTACT, INCLUDING COLD WATER SUPPLIES. PROVIDE SPRAY FOAM INSULATION AT DEMISING AND EXTERIOR WALLS AT LOCATIONS AROUND PLUMBING INSTALLATIONS. PROVIDE A VALANCE AT AREAS WITH EXPOSED SINK DRAINS. SEE PROJECT DETAILS SHEETS FOR REQUIREMENTS.
L. HORIZONTAL OFFSETS IN PLUMBING DRAIN PIPES: PROVIDE ACOUSTIC PIPE INSULATION. REFER TO PLUMBING DRAWINGS.
M. SEE PLUMBING DRAWINGS FOR EXACT DIMENSIONS REQUIRED AND ADDITIONAL PLUMBING FIXTURE INFORMATION.
N. INSTALL LOOP HANDLE PULLS ON ALL CASEWORK.
O. MEP OPERABLE CONTROLS, FIXTURES, OUTLETS AND OTHER TOILET ACCESSORIES SHALL BE MOUNTED NO LOWER THAN 18 INCHES AFF OR HIGHER THAN 48 INCHES. SEE PROJECT DETAILS SHEETS FOR ADDITIONAL MOUNTING REQUIREMENTS.
P. ALL APPLIANCES INCLUDED IN BASE BID, U.N.O. APPLIANCES TO BE STAINLESS STEEL AND ENERGY STAR CERTIFIED WHERE APPLICABLE. SEE SPECIFICATIONS.
Q. ALL PLUMBING FIXTURES TO BE WATERSENSE-RATED. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
R. FOR KITCHEN ELECTRIC OUTLET RECEPTACLES, THE MAXIMUM ALLOWABLE HEIGHT TO THE CENTERLINE OF AN OUTLET IS 46 INCHES AFF WHEN REACHING OVER AN OBSTRUCTION (6 INCHES HIGH MAXIMUM AND 25-1/2 INCHES DEEP MAXIMUM. OUTLETS MUST BE A MINIMUM OF 36 INCHES FROM AN INSIDE CORNER OR 12 INCHES FROM END WALL.
S. THERMOSTATS, SWITCHES, ELECTRIC OUTLETS, ELECTRICAL PANELBOARDS AND OTHER OPERABLE PARTS MUST BE LOCATED WITHIN AN ACCESSIBLE REACH RANGE FROM 19 INCHES TO 48 INCHES AFF FOR UNOBSTRUCTED REACH.
T. KITCHENETTE SINKS SHALL INCLUDE REAR-DRAINED SINKS TO ACCOMMODATE DISPOSALS. SINK BOWL SHALL NOT BE DEEPER THAN 6 1/2 INCHES.
U. PROVIDE LEVER CONTROLS FOR ALL KITCHENETTE AND TOILET FAUCETS.
V. AT TOILET ROOM LOCATIONS, FLUSH CONTROL FOR THE WATER CLOSET SHALL BE LOCATED ON THE OPEN SIDE (AWAY FROM THE SIDE WALL).
W. WHERE REQUIRED, INSTALL ANY MEP DEVICES / FIXTURES SO THE INTEGRITY OF RATED WALL IS MAINTAINED. CONTINUE TYPE X GYPSUM BOARD ASSEMBLY BEHIND MEP DEVICE / FIXTURE.
X. EXTEND FINISH FLOOR MATERIAL UNDER KITCHENETTE APPLIANCES, AND UNDER/BEHIND REMOVABLE UNIVERSAL BASE CABINETS. ALL CABINET SURFACES VISIBLE INCLUDING AREAS EXPOSED AFTER REMOVING REMOVABLE BASE CABINETS MUST BE COVERED BY FINISH END PANELS TO MATCH ADJACENT CASEWORK. EXPOSED SIDES OF CABINETS MUST BE COVERED BY FINISH END PANELS TO MATCH ADJACENT CASEWORK.
Y. SEE PROJECT DETAILS SHEETS AND FINISH SCHEDULE (A800 SERIES) FOR EXTENT OF FINISHES IN CLUBHOUSE.
Z. PROVIDE ONE FRAMED MIRROR FOR EACH TOILET ROOM. MIRROR WIDTH AS SHOWN ON INTERIOR ELEVATIONS, TYPICAL. SEE PROJECT DETAILS SHEETS AND MOUNTING HEIGHTS (A500 SERIES) FOR MOUNTING REQUIREMENTS AND SPECIFICATIONS FOR ALL OTHER REQUIRED TOILET ACCESSORIES.
AA. SEE PROJECT DETAILS SHEETS FOR MOUNTING HEIGHTS AND OTHER DIMENSIONS REQUIRED FOR PLUMBING AND OTHER FIXTURES REQUIRED.
BB. ALL WINDOWS TO RECEIVE WINDOW TREATMENTS AS NOTED IN FINISH SCHEDULE.
CC. SHELVING SHALL BE PROVIDED FOR ENTIRE WIDTH OF CLOSETS AS FOLLOWS: STORAGE CLOSET: 6 SHELF - ADJUSTABLE), UTILITY (1 SHELF, FIXED). SEE PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS
DD. ALL CLUBHOUSE COUNTERTOPS TO RECEIVE GRANITE (SOM) KITCHEN COUNTERTOPS (ST-1) WITH SUBWAY TILE BACKSPLASH. TOILETS TO RECEIVE CULTURED MARBLE SINKS WITH INTEGRAL BOWLS.
EE. ALL COUNTERTOPS TO BE SET AT 34 INCHES MAXIMUM HEIGHT TO THE TOP OF KITCHENETTE OR TOILET SINK RIM.
FF. MOUNT CENTER OF WALL RECEPTACLES ABOVE COUNTER, NO HIGHER THAN 40 INCHES A.F.F. COORDINATE WITH CASEWORK ELEVATIONS. SEE PROJECT DETAILS SHEETS.
GG. REQUIRED 30"x52" CLEAR FLOOR SPACE - 52" SHALL BE CENTERED AT APPLIANCES AND SINKS.

GENERAL NOTES - INTERIOR ELEVATIONS

A. ALL DIMENSIONS ARE TO FACE OF WALL (UNLESS NOTED OTHERWISE).
B. SEE FINISH PLANS AND LEGEND FOR ADDITIONAL INFORMATION OF LOCATIONS AND TYPES OF FINISH MATERIALS.
C. ALL MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR (AFF). SEE SHEET A800.
D. REFER TO PME DRAWINGS FOR OTHER REQUIREMENTS NOT SHOWN ON INTERIOR ELEVATIONS. NOTIFY ARCHITECT OF DISCREPANCIES FOR CLARIFICATION.
E. PROVIDE BLIND CABINETS WHERE APPLICABLE.
F. CONTRACTOR TO PROVIDE BLOCKING IN WALL AS REQUIRED FOR ALL OWNER FURNISHED WALL MOUNTED EQUIPMENT AND ACCESSORIES. COORDINATE FINAL LOCATION WITH OWNER.
G. PROVIDE 3CRIBES / FILLERS BETWEEN ALL WALLS AND CABINET ENDS, U.N.O. PROVIDE MINIMUM 2" FILLERS BETWEEN THE CORNER CABINETS IN AN "L" SHAPE CONFIGURATION.
H. PROVIDE CORNER CLOSURE PIECE UNDER THE WALL CABINETS IN AN "L" SHAPE CONFIGURATION.
I. WALL BASE AND WALL FINISH ARE TO EXTEND BEHIND EQUIPMENT
J. COORDINATE LOCATION OF GROMMETS WHERE NECESSARY FOR COMPUTER CORDS WITH OWNER, U.N.O.
K. CASEWORK MANUFACTURER SHALL VERIFY/MEASURE ALL FIELD CONDITIONS PRIOR TO FABRICATION OF CASEWORK / COUNTERTOPS. ANY ALTERATION TO CASEWORK REQUIRES AS A RESULT OF FIELD CONDITIONS SHALL BE APPROVED BY THE ARCHITECT AND OWNER PRIOR TO FABRICATION OR INSTALLATION. CASEWORK MANUFACTURER SHALL COORDINATE WITH CONTRACTOR INSTALLATION OF BLOCKING.
L. PROVIDE FINISHED ENDS/SIDES OF ALL EXPOSED END CABINETS.

LEGEND - ENLARGED PLANS

- ANSI TYPE A UNIT. UNITS TO ALSO INCLUDE SENSORY UNIT FEATURES. SEE OVERALL PLAN SFOR UNIT LOCATIONS.
- SENSORY UNIT (HEARING / VISUALLY IMPAIRED) - PROVIDE REQUIRED AUDIBLE AND VISUAL ALARMS. SEE OVERALL PLANS FOR UNIT LOCATIONS.
- ACCESSIBLE CLEARANCE APPROACH
- ACCESSIBLE TURNING CLEARANCE
- DOOR SWING CLEARANCE
- ACCESSIBLE ROUTE, 36" MINIMUM, UNOBSTRUCTED CLEARANCE PATH OF EGRESS
- PAPER-FACED MOISTURE RESISTANT GYP BOARD (MR)
- PAPERLESS GYPSUM BOARD (PGB)

CODED NOTES - ENLARGED PLANS / INTERIOR ELEVATIONS

NOTE: SEE GENERAL NOTES, SPECIFICATIONS AND PROJECT DETAILS SHEETS FOR MOUNTING HEIGHT REQUIREMENTS AND ADDITIONAL INFO.

1. WALL-HUNG LAV WITH RADIUSED CORNERS. ALL LAV. COUNTERS AND SINK RIM TO BE INSTALLED AT 34" MAX A.F.F. CAULK AT ALL LAVS. PROVIDE PLUMBING PIPING PROTECTION AS REQUIRED PER CODE.
2. FRAMED MIRROR, MOUNT CENTERED ABOVE LAV.
3. PAPER TOWEL DISPENSER, 1 PER BATH.
4. SOAP DISPENSER, 1 PER BATH.
5. WC GRAB BARS.
6. TOILET PAPER HOLDER, 1 PER BATH.
7. SANITARY NAPKIN DISPOSAL.
8. ROBE HOOK, 1 PER BATH, MOUNTED ON INSIDE OF BATH DOOR, CENTERED.
9. SHELVING. FINAL TYPE AND QUANTITY TO BE COORDINATED WITH OWNER. LOWEST SHELF TO BE WITHIN ACCESSIBLE REACH RANGES.
10. IN TOILET ROOMS, PROVIDE AND INSTALL IN WALL BLOCKING AND GRAB BARS AT TOILETS LOCATIONS.
11. REMOVABLE BASE CABINET SINK BASES AT ALL UNITS IN KITCHENS AND BATHS. LEVER CONTROLS FOR ALL KITCHEN AND BATH FAUCETS. FLOOR FINISH TO EXTEND BELOW CABINETRY. WALLS BEHIND AND SURROUNDING THE CABINETRY
12. AIR SWITCH FOR GARBAGE DISPOSAL. COORDINATE LOCATION WITH PLUMBING.
13. QUARTZ KITCHEN COUNTER WITH WITH EASED EDGES AND UNDERMOUNT SINK. TOP OF COUNTER AND SINK RIM TO BE 34" MAX. A.F.F.
14. FINISH END OR BACK PANEL, TYPICAL.
15. TILE BACKSPLASH.
16. WALL BASE. REFER TO FINISH SCHEDULE.
17. GLASS DOUBLE SWING-DOOR REFRIGERATOR. COORDINATE FINAL SIZE AND LOCATION WITH OWNER.
18. OWNER-PROVIDED COFFEE MACHINE. COORDINATE FINAL LOCATION WITH OWNER.
19. CONTRACTOR TO PROVIDE IN WALL BLOCKING AND INSTALL OWNER-PROVIDED, WALL-MOUNTED TELEVISION. COORDINATE FINAL SIZE AND LOCATION WITH OWNER.
20. UNDERCOUNTER TRASH RECEPTACLE.
21. UNDERCOUNTER REFRIGERATOR.
22. BOTTLE FILLING STATION.
23. JANITOR SINK.
24. MOP STRIP.
25. JANITOR SHELF.
26. BABY CHANGING STATION

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EXPANDING OPPORTUNITY. STRENGTHENING COMMUNITIES.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
ENLARGED PLANS, ELEVATIONS & CASEWORK DETAILS - CLUBHOUSE

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
A513
CD PROGRESS SET

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:25:11 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Design/_R25/23446_CMHA Refugee Rd Housing_R25.rvt

© 2025 MOODY NOLAN INC.

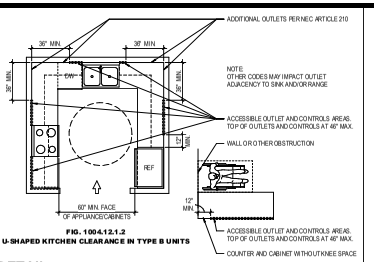


FIG. 1004.12.1.2
U-SHAPED KITCHEN CLEARANCE IN TYPE B UNITS

13 DETAIL DEVICE MOUNTING AT COUNTERS
1/4" = 1'-0"

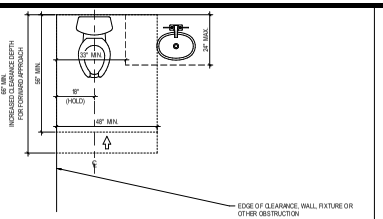
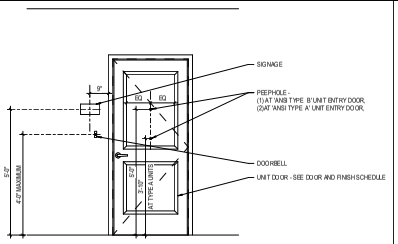


FIG. 1004.11.3.1.2
CLEARANCE AT WATER CLOSETS IN TYPE B UNITS

9 DETAIL TYP WC CLEARANCES
1/2" = 1'-0"



17 DETAIL UNIT ENTRY
1/2" = 1'-0"

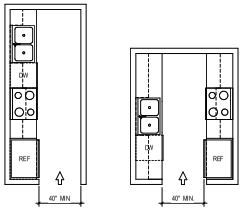
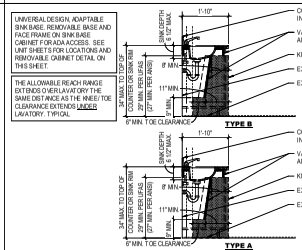
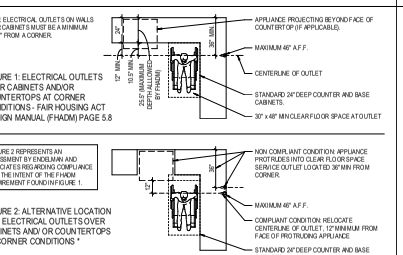


FIG. 1004.12.1.1
MINIMUM KITCHEN CLEARANCES IN TYPE B UNITS

12 DETAIL KITCHEN CLEARANCES
1/4" = 1'-0"



8 DETAIL TYPICAL BATHROOM VANITY
1/2" = 1'-0"



16 DETAIL FAIR HOUSING ACT DESIGN MANUAL (FHADM) PAGE 5.8
1/4" = 1'-0"

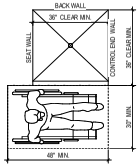
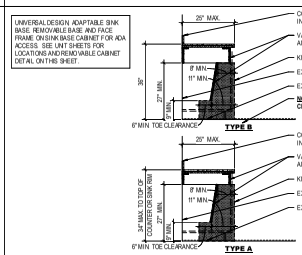
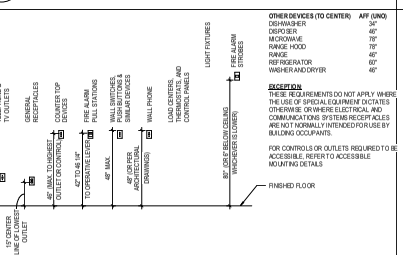


FIG. 1004.11.3.1.3.3
TRANSFER-TYPE SHOWER COMPARTMENT IN TYPE B UNITS

11 DETAIL SHOWER CLEARANCES
1/2" = 1'-0"



7 DETAIL KITCHEN WORK SPACE
1/2" = 1'-0"



15 DETAIL GENERAL DEVICE MOUNTING HEIGHTS
3/8" = 1'-0"

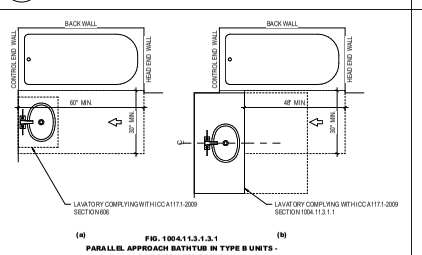
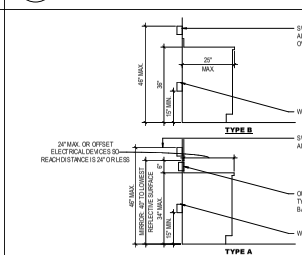
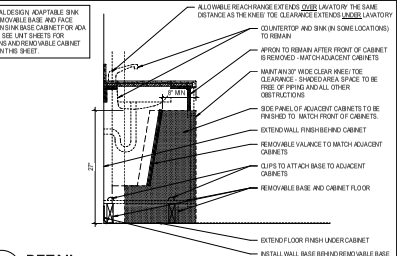


FIG. 1004.11.3.1.3.1
PARALLEL APPROACH BATHTUB IN TYPE B UNITS - OPTION A BATHROOMS



6 DETAIL ACCESSIBLE OPERABLE PARTS TYPE A & TYPE B
1/2" = 1'-0"



14 DETAIL REMOVABLE BASE CABINET
1" = 1'-0"

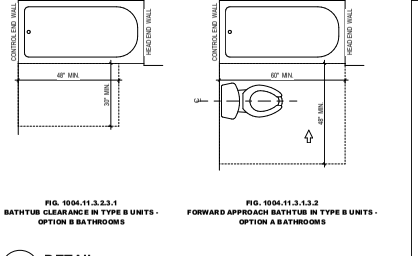


FIG. 1004.11.3.2.3.1
BATHTUB CLEARANCE IN TYPE B UNITS - OPTION B BATHROOMS

FIG. 1004.11.3.1.3.2
FORWARD APPROACH BATHTUB IN TYPE B UNITS - OPTION A BATHROOMS

10 DETAIL BATHTUB CLEARANCES
1/2" = 1'-0"

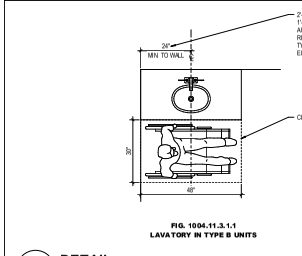
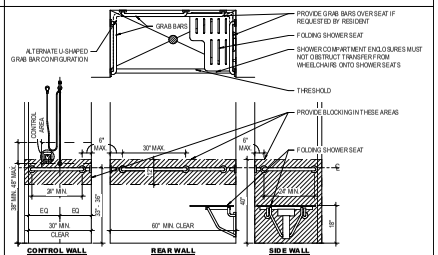


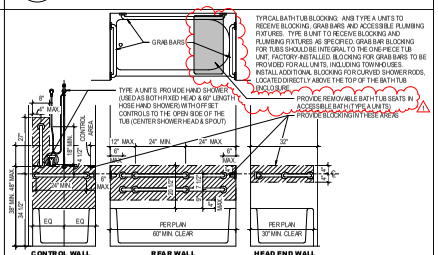
FIG. 1004.11.3.1.1
LAVATORY IN TYPE B UNITS

5 DETAIL TYPICAL LAV TYPE A (ANSI) AND TYPE B (FHA)
1/2" = 1'-0"

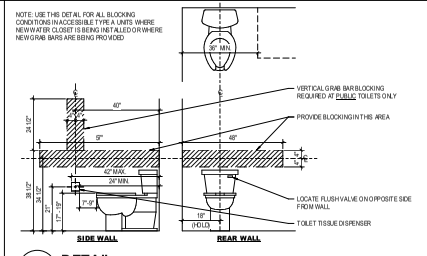
4 DETAIL ROLL-IN SHOWER (TYPE A)
1/2" = 1'-0"



3 DETAIL SHOWER (TYPE B) & TRANSFER SHOWER (TYPE A)
1/2" = 1'-0"



2 DETAIL TUB / SHOWER BLOCKING (TYPE A & B)
1/2" = 1'-0"



1 DETAIL TYP WC CORNER BLOCKING
1/2" = 1'-0"

#	DATE	CHANGE DESCRIPTION
1	06/01/25	ADDENDUM 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EMPOWERING OPPORTUNITIES. ENLIGHTENING LIVES.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

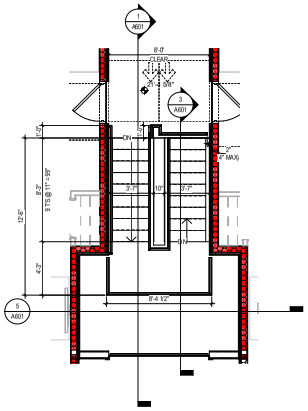
DRAWING TITLE:
UNIT DETAILS

05/01/2025
23446
A521
CD PROGRESS SET

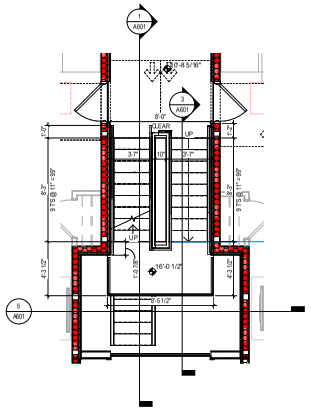
PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 5/1/2025 2:23:14 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Devpmt - R23/23446_CMHA Refugee Rd Housing Devpmt - R23_CENTRAL.rvt

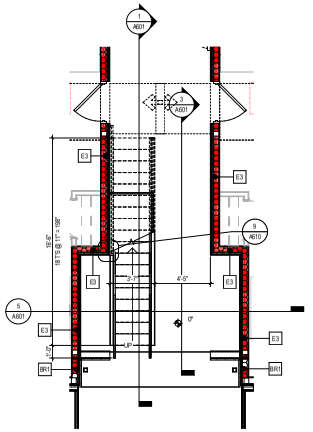
© 2025 MOODY NOLAN, INC.



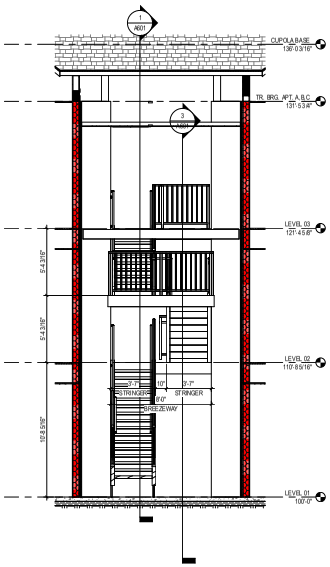
6 **ENLARGED PLAN** STAIRS LEVEL 03
1/4" = 1'-0" REF: 1 / A102A



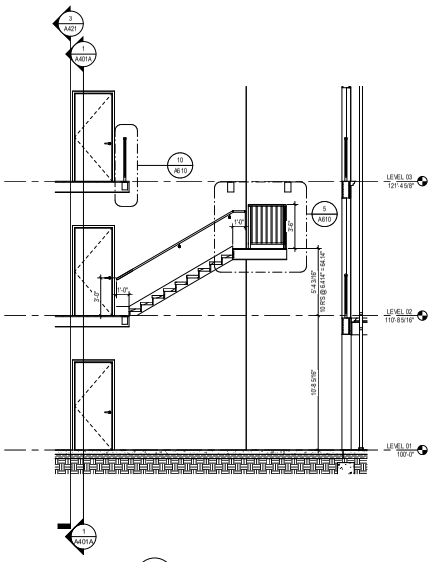
4 **ENLARGED PLAN** STAIRS LEVEL 02
1/4" = 1'-0" REF: 2 / A101A



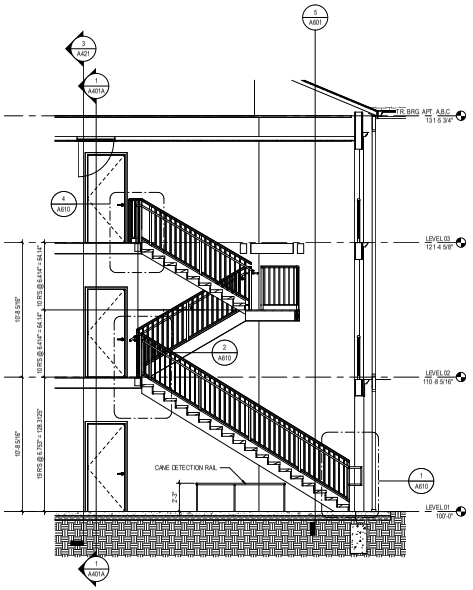
2 **ENLARGED PLAN** STAIRS LEVEL 01
1/4" = 1'-0" REF: 1 / A101A



5 **SECTION** MAIN STAIRS @ INT. LANDING
1/4" = 1'-0" REF: 1 / A601



3 **SECTION** Detail 7
1/4" = 1'-0" REF: 3 / A421



1 **SECTION** MAIN STAIRS SECTION 01
1/4" = 1'-0" REF: 3 / A421

VERTICAL CIRCULATION GENERAL NOTES

1. TBD

VERTICAL CIRCULATION CODED NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3395 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

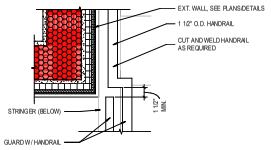
DRAWING TITLE:
BUILDING A-C STAIR PLANS AND SECTIONS

05/01/2025
23446
A601
CD PROGRESS SET

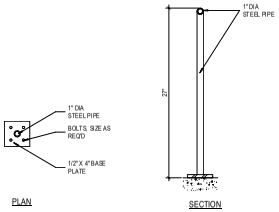
PROGRESS DRAWING
NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:23:20 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

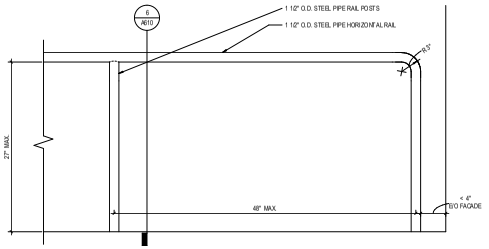
© 2025 MOODY NOLAN, INC.



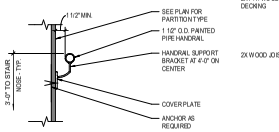
9 DETAIL IEVEL 01 HANDRAIL TRANSITION
1 1/2" = 1'-0" REF: 2 / A601



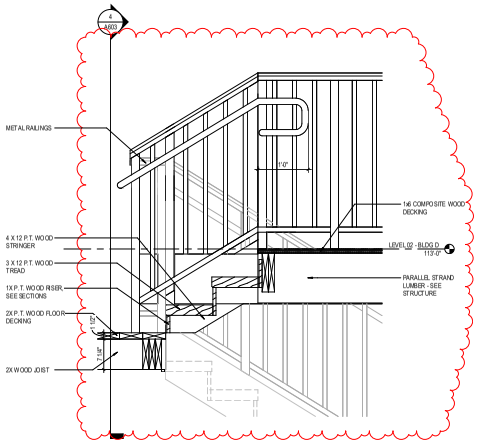
6 DETAIL CANE DETECTION SECTION
1 1/2" = 1'-0" REF: 3 / A610



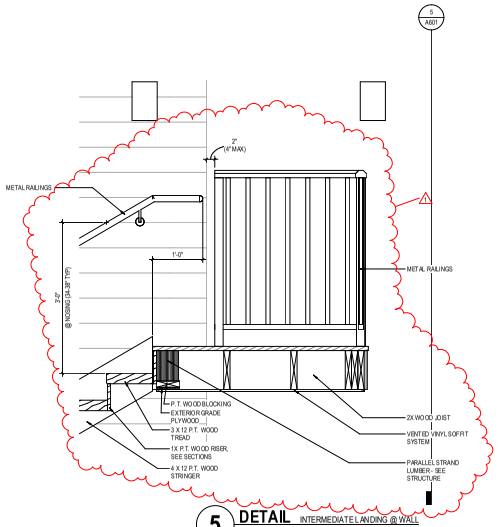
3 DETAIL CANE DETECTION RAIL
1 1/2" = 1'-0"



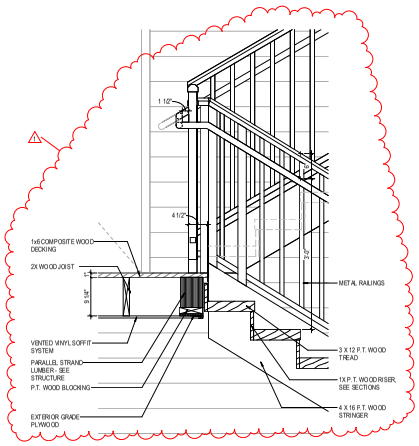
11 DETAIL R4 - HANDRAIL MOUNTING - WALL
1 1/2" = 1'-0"



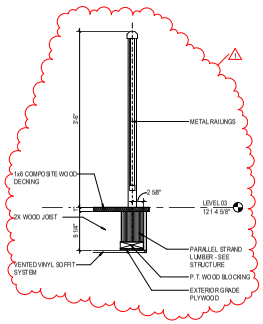
8 DETAIL TOP LANDING - CLUBHOUSE
1" = 1'-0" REF: 2 / A603



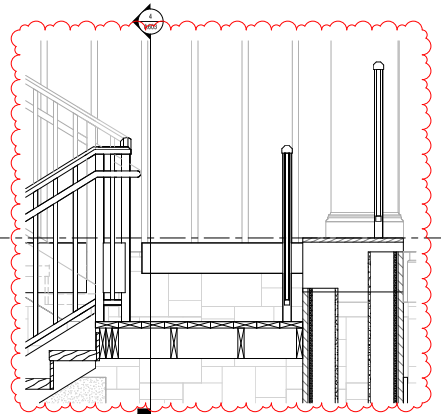
5 DETAIL INTERMEDIATE LANDING @ WALL
1" = 1'-0" REF: 3 / A601



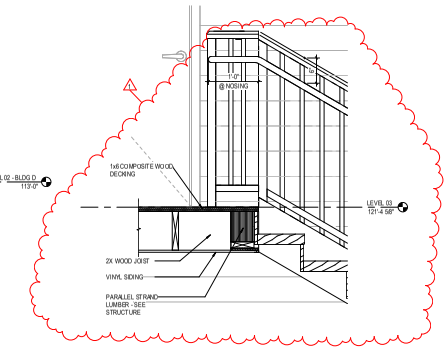
2 DETAIL INTERMEDIATE LANDING SYMETRICAL)
1" = 1'-0" REF: 1 / A601



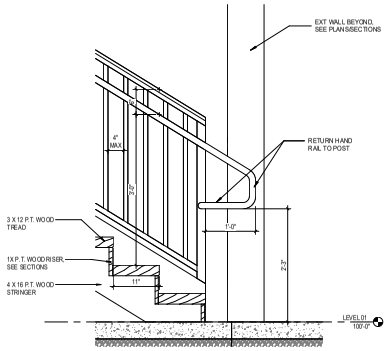
10 DETAIL GUARDRAIL @ TOP LANDING
1" = 1'-0" REF: 3 / A601



7 DETAIL INT. LANDING @ CH 2ND FLOOR
1" = 1'-0" REF: 3 / A603



4 DETAIL TOP LANDING GUARDRAIL
1" = 1'-0" REF: 1 / A601



1 DETAIL LANDING @ GRADE
1" = 1'-0" REF: 1 / A601

VERTICAL CIRC. GENERAL NOTES

1. TBD

VERTICAL CIRC. CODED NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
05 52 00	METAL RAILINGS
06 10 00.A4	2X WOOD JOIST
06 10 00.A10	P.T. WOOD BLOCKING
06 10 00.B1	EXTERIOR GRADE PLYWOOD
06 15 13.A2	2X P.T. WOOD FLOOR DECKING
06 17 23	PARALLEL STRAND LUMBER - SEE STRUCTURE
06 43 13.A1	3 X 12 P.T. WOOD TREAD
06 43 13.A2	1X P.T. WOOD RISER, SEE SECTIONS
06 43 13.A3	4 X 16 P.T. WOOD STRINGER
06 43 13.A4	4 X 12 P.T. WOOD STRINGER
06 73 00.A1	1x6 COMPOSITE WOOD DECKING
07 46 33.B1	VINYL SIDING
07 46 33.D1	VENTED VINYL SOFFIT SYSTEM

#	DATE	CHANGE DESCRIPTION
1	09/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EMPOWERING OPPORTUNITIES. ENLARGING LIVES.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614 461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:

STAIR & RAILING DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

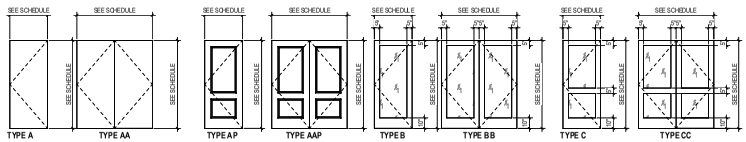
A610

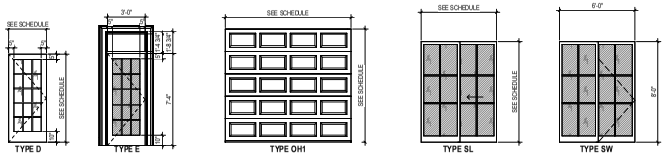
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 9/17/2025 2:29:27 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project_R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

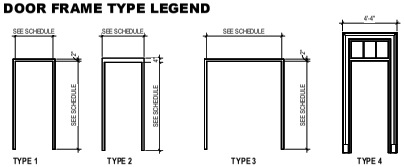
© 2025 MOODY NOLAN INC.

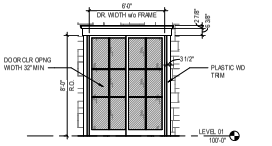
DOOR PANEL TYPE LEGEND





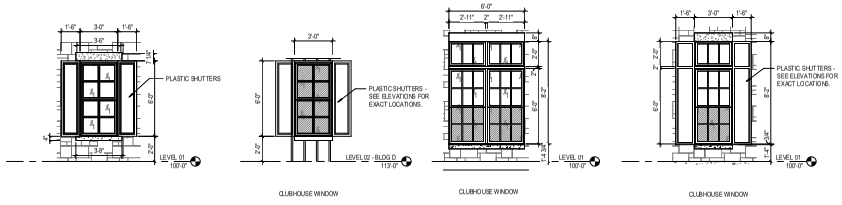
DOOR FRAME TYPE LEGEND





1 DETAIL TYPICAL APT. SLIDING DOOR
1/4" = 1'-0" REF: 1 / 100-A

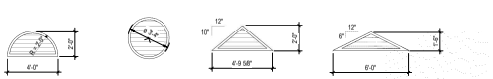
WINDOW TYPE LEGEND



W1 W2 W3 W4

W5 W7

LOUVER TYPE LEGEND



DOOR SCHEDULE - EXTERIOR ELEC CLOSET DOOR @ BUILDING A,B,C

DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS - SHEET A710 (U.N.O.) HEAD	JAMB	SILL
E1	FIRE SPRINKLER / RISER ROOM	6'-0"	7'-0"	HM	AA	HM	1		3			
E3	FIRE SPRINKLER / RISER ROOM	6'-0"	7'-0"	HM	AA	HM	1		3			
E5	FIRE SPRINKLER / RISER ROOM	6'-0"	7'-0"	HM	AA	HM	1		3			

DOOR SCHEDULE - GARAGE BUILDING

DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS - SHEET A710 (U.N.O.) HEAD	JAMB	SILL
G01	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G01A	GARAGE	3'-0"	7'-0"		A		2					
G02	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G02A	GARAGE	3'-0"	7'-0"		A		2					
G02B	GARAGE	3'-0"	7'-0"		A		2					
G03	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G04	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G05	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G06	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G07	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G09	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G11	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G13	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G15	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G17	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G19	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G21	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G23	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G25	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G27	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M
G29	GARAGE	8'-0"	7'-0"		OH1		--		1.0	16	15	M

DOOR SCHEDULE - BUILDING D (CLUBHOUSE)

DOOR NUMBER	ROOM NAME	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS - SHEET A710 (U.N.O.) HEAD	JAMB	SILL
D101	FRONT LOBBY	3'-0"	7'-4"	HM	E	HM	3		2.1			
D103	CONFERENCE & CLOSING	3'-0"	7'-0"	WD	C	HM	1		9.0	6	7	
D104	RESTROOM	3'-0"	7'-0"	WD	A	HM	2		5.0	6	7	
D104A	MECH	3'-0"	7'-0"	WD	A	HM	1		7.0	6	7	
D106	MARKETING	3'-0"	7'-0"	WD	A	HM	1		9.0	6	7	
D107	GALLERY	3'-0"	7'-0"	WD	C	HM	1		10.0	6	7	
D108B	CLUB	3'-0"	7'-0"	WD	C	HM	1		8.0	6	7	
D109	FITNESS	3'-0"	7'-0"	WD	C	HM	1		4.0	6	7	
D111	REAR LOBBY	3'-0"	7'-4"	HM	E	HM	3		2.0			
D113	MENS RR	3'-0"	7'-0"	WD	A	HM	1		11.0	6	7	
D114	WOMENS RR	3'-0"	7'-0"	WD	A	HM	1		11.0	6	7	
D115	PARCEL RM	3'-0"	7'-0"	WD	A	HM	1		5.0	6	7	
D116	MECH / JAN.	3'-0"	7'-0"	WD	A	HM	1		6.0	6	7	
D117	POOL EQUIP.	6'-0"	7'-0"	HM	AA	HM	1		3.0			

NOTE TO CONTRACTOR:
THE SAME DOOR SCHEDULE FOR INTERIOR UNIT IS ALSO SHOWN ON ENLARGED FLOOR PLANS (A5010 SERIES) FOR EASE OF REFERENCE.

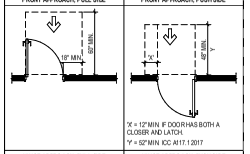
DOOR SCHEDULE - TYPICAL INTERIOR UNIT

REVISION	MARK	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR MATERIAL	DOOR ELEV	FRAME MATERIAL	FRAME ELEV	FIRE RATING	HDW SET	DETAILS-SHEET A710 (U.N.O.) HEAD	JAMB	SILL	REMARKS
	A1	UNIT ENTRY (INT.)	3'-0"	7'-0"	HM	AP	HM	1	20 MIN	12	10	9	5, 8	
01	B1	BEDROOM	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
01	C1	CLOSET	3'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C2	CLOSET	2'-6"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C3	CLOSET	2'-0"	7'-0"	WD	AP	HWC	1	-	14	4	5	-	
01	C4	CLOSET - PAIR	5'-0"	7'-0"	WD	AAP	HWC	1	-	15	4	5	-	
01	T1	TOILET	3'-0"	7'-0"	WD	AP	HWC	1	-	13	4	5	-	
	P1	BALCONY	6'-0"	7'-0"	FG	SL	FG	1	-	16	-	-	-	
	P2	BALCONY - SWING	6'-0"	7'-0"	FG	SW	FG	1	-	16	-	-	-	

- PROVIDE DOOR STOPS (BASE OR HINGE) PER HARDWARE SET SPECIFICATIONS.
- ALL DOOR WIDTHS IN OCCUPIED ROOMS OF BUILDING TO BE 32" MIN CLEAR.
- ALL DOORS PROVIDING ACCESS TO RESIDENTIAL SPACES TO BE PAINTED.
- ALL FULL LITE BALCONY DOORS TO RECEIVE WINDOW SHADES.
- SENSORY UNITS TO RECEIVE: ROOM ANNUNCIATOR, HORN/STROBE, TRANSFORMER, & PUSH BUTTON (BOD: EDWARDS SIGNALING)

Division	Schedule Abbreviation	( )
08 11 13	Hollow Metal Doors and Frames	(HM)
08 14 00	Hollow Wood Door	(HWC)
08 16 13	Fiberglass Doors	(FG)
08 32 00	Sliding Glass Doors	(SG)
08 41 13	Aluminum-Framed Entrances and Storefronts	(SF)

DOOR CLEARANCES



GLAZING TYPES

- GL-1 INTERIOR GLAZING (CLEAR TEMPERED)
- GL-2 INTERIOR GLAZING (CLEAR LAMINATED)
- GL-3 INTERIOR GLAZING (CERAMIC 45 MINUTE)
- GL-4 INTERIOR GLAZING (CERAMIC 60 MINUTE)
- GL-5 INTERIOR GLAZING (CERAMIC 90 MINUTE)
- GL-6 INTERIOR GLAZING (FROSTED)
- GL-7 INTERIOR GLAZING (GRIDDED)
- IG-1 EXTERIOR GLAZING (CLEAR)
- IG-1A EXTERIOR GLAZING (CLEAR TEMPERED)

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

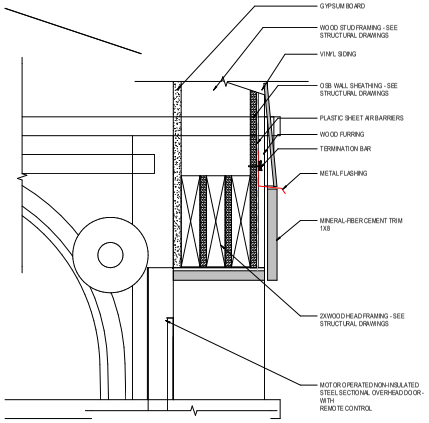
DRAWING TITLE:
DOOR & WINDOW SCHEDULES

PROGRESS DRAWING NOT FOR CONSTRUCTION

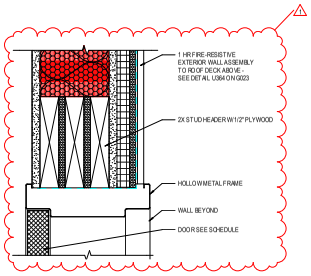
05/01/2025
23446
A700
CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:29:33 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Dwlpmt - R22/23446_CMHA Refugee Rd Housing_R22.rvt

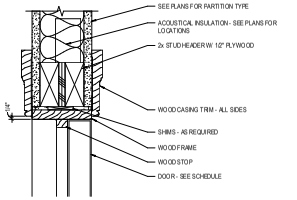
© 2025 MOODY NOLAN, INC.



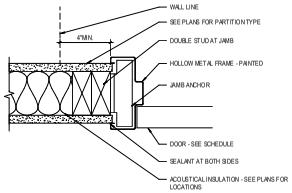
16 DETAIL GARAGE DOOR HEAD
3" = 1'-0" REF.: 12 / A1.10G



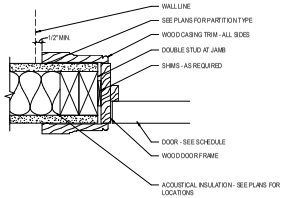
10 DETAIL UNIT ENTRY DOOR HEAD
3" = 1'-0" REF.: 2 / A602



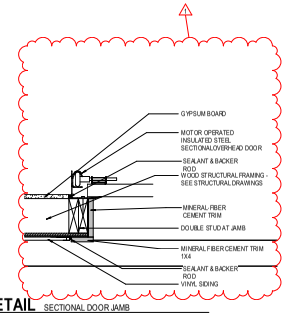
4 DETAIL DOOR HEAD WITH WOOD TRIM
3" = 1'-0"



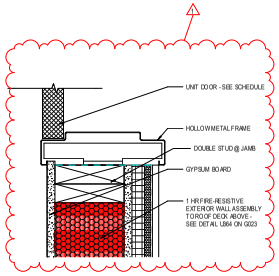
7 DETAIL TYP. HOLLOW METAL JAMB
3" = 1'-0"



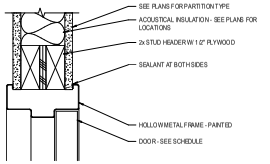
3 DETAIL DOOR JAMB WITH WOOD TRIM
3" = 1'-0"



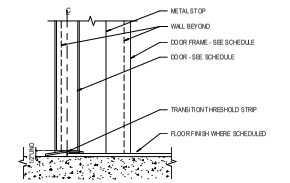
15 DETAIL SECTIONAL DOOR JAMB
1 1/2" = 1'-0" REF.: 1 / A110G



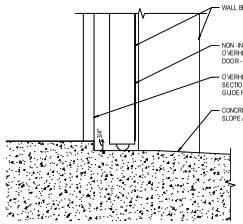
9 DETAIL UNIT ENTRY DOOR JAMB
3" = 1'-0"



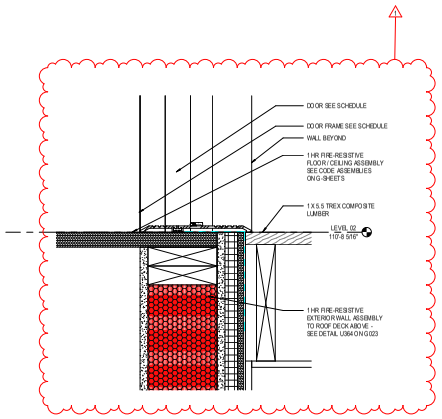
6 DETAIL TYP. HOLLOW METAL HEAD DETAIL
3" = 1'-0"



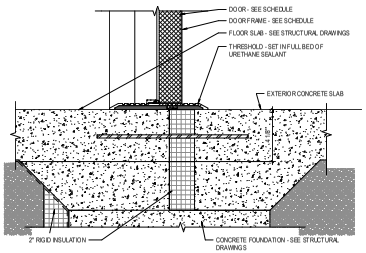
2 DETAIL TYPICAL INTERIOR DOOR SILL W / TRANS TRESHOLD
3" = 1'-0"



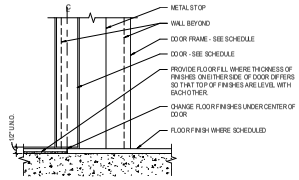
14 DETAIL GARAGE DOOR SILL
3" = 1'-0" REF.: 12 / A1.10G



8 DETAIL UNIT ENTRY DOOR SILL
3" = 1'-0" REF.: 2 / A602



5 DETAIL UNIT DOOR SILL @ GRADE
3" = 1'-0"



1 DETAIL TYPICAL INTERIOR DOOR SILL
3" = 1'-0"

DOOR DETAIL GENERAL NOTES

1. TBD

KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
07 46 46.B1	MINERAL-FIBER CEMENT TRIM
07 92 00.H3	SEALANT & BACKER ROD

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM # 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT. OWNERSHIP. STEWARDSHIP.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

DOOR DETAILS

05/01/2025

23446

A710

PROGRESS DRAWING NOT FOR CONSTRUCTION

CD PROGRESS SET

PRINT VERSION: 2025
PRINT DATE: 5/1/2025 2:29:37 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R22/23446_CMHA Refugee Rd Housing_R25.rvt

© 2025 MOODY NOLAN INC.

CLUBHOUSE FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR MAT	FLOOR COL	BASE MAT	BASE COL	DOOR/FRAME FINISH DOOR PAINT	DOOR/FRAME FINISH FRAME PAINT	WALLS NORTH MAT	NORTH COL	SOUTH MAT	SOUTH COL	EAST MAT	EAST COL	WEST MAT	WEST COL	REMARKS
104	FIRE SPRINKLER / RISER ROOM	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
106	FIRE SPRINKLER / RISER ROOM	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
108	FIRE SPRINKLER / RISER ROOM	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
D101	FRONT LOBBY	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D102	CORR.	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D103	CONFERENCE & CLOSING	CR	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D104	RESTROOM	TF	1	TWB	1			PT	3	PT	3	PT	3	PT	3	WT @ WET WALL
D104A	MECH	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
D105	LEASING	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D106	MARKETING	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D107	GALLERY	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D108	CLUB	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	WT / PT	3 / 3	WT @ BACK BAR
D109	FITNESS	RSF	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	SOFFIT TO BE PT-X LAY-IN TO BEAM
D111	REAR LOBBY	LVP	1	WD	PT-2			PT	3	PT	3	PT	3	PT	3	
D112	CORRIDOR	LVP	1	WD	PT-2			PT	3	WT / PT	3 / 3	WT / PT	3 / 3	WT / PT	3 / 3	WT @ ELWC
D113	MENS RR	TF	1	TWB	1			PT	3	PT	3	PT	3	WT	1	WT @ WET WALL
D114	WOMENS RR	TF	1	TWB	1			PT	3	PT	3	WT	1	PT	3	WT @ WET WALL
D115	PARCEL RM	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
D116	JANITOR	SC	--	RB	1			PT	3	PT	3	PT	3	PT	3	
D117	POOL EQUIP.	SC	--	RB	1			FRP	1	FRP	1	FRP	1	FRP	1	
D118	WALL	--	--	--	--			--	--	--	--	--	--	--	--	SEE EXTERIOR FINISHES
D119	STAIR	--	--	--	--			--	--	--	--	--	--	--	--	SEE EXTERIOR FINISHES

UNIT FINISH SCHEDULE

ROOM NAME	FLOOR FINISH	FLOOR COLOR	BASE FINISH	BASE COLOR	WALLS FINISH	WALLS COLOR	REMARKS	KEYED REMARKS
COAT	LVP	1	WD	PT-2	PT	1		
KITCHEN	LVP	1	WD	PT-2	PT / WT	1 / 2	WT @ KITCHEN BACKSPLASH	1, 2
LIVING	LVP	1	WD	PT-2	PT	1		
CLOSET	LVP	1	WD	PT-2	PT	1	NON-BEDROOM ADJACENT	
BEDROOM/CLOSET	CR	1	WD	PT-2	PT	1		
BATHROOM	LVP	1	WD	PT-2	PT	1		
LAUNDRY	LVP	1	WD	PT-2	PT	1		
LINEN	LVP	1	WD	PT-2	PT	1		
MECH	LVP	1	WD	PT-2	PT	1		

GENERAL NOTES:

A. REFER TO "FINISH LEGEND-TYPICAL UNIT" FOR MATERIAL AND COLOR INFORMATION.
B. UNIT INTERIOR TRIM AND DOORS TO BE PAINTED PT-2.
C. CEILINGS TO BE PAINTED PT-6 ENTIRE UNIT, TYPICAL AT ALL UNITS.
D. CONTINUE FLOOR FINISH INTO KNEE SPACE OF REMOVABLE CABINETS, PAINT BACK WALL, INSTALL WALL BASE.
E. AT ALL EXTERIOR WINDOWS, INSTALL NEW BLINDS. TYPICAL AT ALL UNITS.
F. VB-X TO BE INSTALLED AT FRONT OF ALL SHOWERS.

KEYED REMARKS:

1. UNIT KITCHEN COUNTERTOP TO BE GRANITE. SEE FINISH LEGEND FOR COLOR.
2. ACCESSIBLE KITCHEN TO HAVE A TOP SET 6" HIGH x 3/4" THICK SQUARE EDGE BACKSPLASH. RECEPTACLES TO BE MOUNTED HORIZONTALLY IN THE BACKSPLASH (WHERE NOTED ON PLANS).

FINISH LEGEND

FLOORS:

CARPET - BROADLOOM (CR)
CR-1 MFG: MOHAWK GROUP
STYLE: ALNWICK CASTLE / 25 OZ. TUFTED TIPSHEAR
COLOR: TBD

CARPET TILE (CR)
CR-2 MFG: INTERFACE
STYLE: OPEN AIR 415
COLOR: 107016 NATURAL

FLOOR TILE (FT)
FT-1 MFG: DALTILE
STYLE: VOLUME 1.0 / 12" X 24"
COLOR: ACCENT BROWN VL78
GROUT: TBD

LUXURY VINYL PLANK (LVP)
(SEE ENLARGED PLANS FOR LVP PLANK INSTALL DIRECTION (DIR)
LVP-1 MFG: LANDMARK INTERIORS
COLLECTION: TERRAIN
COLOR: SWITCHBACK TR-04-22
SIZE: 9" X 60" PLANK 2.5MM 22MIL
INSTALL: RANDOM

RESILIENT SPORTS FLOOR (RSF)
RSF-1 MFG: MONDO
STYLE: SPORTS IMPACT 6MM
COLOR: TBD

SEALED CONCRETE (SC)

BASE:

RUBBER BASE (RB)
RB-1 MFG: JOHNSONITE
STYLE: RECESS 4.25" RWDC-63
COLOR: TBD

TILE WALL BASE (TWB)
TWB-1 MFG: DALTILE
STYLE: VOLUME 1.0
3" X 12" BULLNOSE
COLOR: ACCENT BROWN VL78
GROUT: TBD

WALLS:

FIBERGLASS REINFORCED PANEL (FRP)
FRP-1 MFG: CRANE COMPOSITES
PRODUCT: GLASBORD
SANDSTONE TEXTURE
COLOR: TBD

PAINT (PT)
PT-1 MFG: SHERWIN WILLIAMS
COLOR: SW 7631 CITY LOFT
FINISH: SATIN/EG-SHEL

PT-2 MFG: SHERWIN WILLIAMS
COLOR: SW 7005 PURE WHITE
FINISH: SATIN/EG-SHEL

EPT-2 FINISH: EPOXY

PT-3 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

PT-4 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

PT-5 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

PT-6 MFG: SHERWIN WILLIAMS
COLOR: TBD
FINISH: TBD

WALL TILE (WT)
WT-1 MFG: DALTILE
STYLE: VOLUME 1.0 / 12" X 24"
COLOR: ACCENT BROWN VL78
INSTALL: TBD / GROUT: TBD

WT-2 MFG: DALTILE
STYLE: COLOR WHEEL CLASSIC - 3" X 6"
COLOR: ARCTIC WHITE 0190
INSTALL: SUBWAY / GROUT: TBD

WT-3 MFG: DALTILE
STYLE: REMEDY 2" X 10"
COLOR: TBD
INSTALL: SUBWAY / GROUT: TBD

CEILINGS
A1 2X2 ACOUSTICAL LAY-IN - WHITE

A3 2X2 LAY-IN - BLACK W/ BLACK GRID

MISCELLANEOUS

CABINETS UNITS
MFG: REGENT CABINETS
STYLE: SHAKER SLAB / EXTREME CONS.
COLOR: TBD

AMENITY
MFG: REGENT CABINETS
STYLE: SHAKER SLAB / EXTREME CONS.
COLOR: TBD

COUNTERS - QUARTZ (QZ)
QZ-1 MFG: CORIAN
COLOR: TBD
AMENITY

COUNTERS - STONE (ST)
ST-1 MFG: TBD
PATTERN: 3CM GRANITE
COLOR: TBD
UNIT

GROUT (GT)
GT-1 MFG: MAPEI
COLOR: TBD

GT-2 MFG: MAPEI
COLOR: TBD

VANITY TOP / SINK
MFG: RYNONE
STYLE: CULTURED MARBLE VANITY TOP
COLOR: SOLID / 3B SOLID, WHITE

GENERAL NOTES - FINISH PLANS

1. STANDARDS AND PROCEDURES FOR THE PREPARATION AND APPLICATION OF INTERIOR FINISHES ARE DEFINED IN THE PROJECT MANUAL, FINISH (SUB) CONTRACTORS ARE REQUIRED TO READ, UNDERSTAND AND FOLLOW ALL RELEVANT SECTIONS OF THE PROJECT MANUAL.
2. FINISH MATERIALS ARE LISTED IN THE LEGEND COMPONENT OF THE FINISH SCHEDULE. SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
3. NO FINISH MATERIAL SUBSTITUTIONS WILL BE ACCEPTED EXCEPT IN THE SPECIFIC CIRCUMSTANCES ENUMERATED IN THE PROJECT MANUAL.
4. PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE. MATERIAL, FINISH AND COLOR INFORMATION FOR ALL OTHER DOORS AND FRAMES IS CONTAINED IN THE DOOR SCHEDULE AND ITS ASSOCIATED LEGENDS. IF WALLS ON OPPOSITE SIDES OF DOOR FRAME ARE DIFFERENT COLORS THE PAINT COLORS SHOULD BE SPLIT AT THE JAMB OF THE FRAME.
5. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).
6. FLOORING MATERIAL DESIGNATED FOR STAIRS IS TO INCLUDE STAIR AND ALL ASSOCIATED TREADS, RISERS, LANDINGS, ETC. (UNLESS NOTED OTHERWISE).
7. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR THE PURPOSE OF BIDDING, INFORMATION DETAILED ON THE FINISH FLOOR PLANS AND FLOORING PLANS IS TO TAKE PRECEDENCE OVER THE FINISH SCHEDULE UNTIL FURTHER CLARIFICATION CAN BE GIVEN. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.
8. WHERE RESILIENT BASE IS SPECIFIED (VINYL OR RUBBER) PROVIDE COVE PROFILE BASE AT ALL RESILIENT FLOORS AND STRAIGHT BASE FOR ALL CARPET AREAS (UNLESS OTHERWISE NOTED). HEIGHT AND COLOR TO BE AS INDICATED ON FINISH LEGEND.
9. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.
10. ALL DRYWALL SOFFITS TO BE PAINTED FLAT CEILING WHITE UNLESS NOTED OTHERWISE ON CEILING PLANS.
11. CERAMIC WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).
12. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.
13. WITHIN FINISH SCHEDULE CELLS: SLASH MARKS INDICATE DIFFERENCES IN FINISH MATERIAL, WHILE COMMAS INDICATE DIFFERENCES IN PATTERN OR COLOR WITHIN A SPECIFIC MATERIAL.
14. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.
15. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.
16. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL/ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DIVERSITY. OPPORTUNITY. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

FINISH SCHEDULE/LEGEND

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

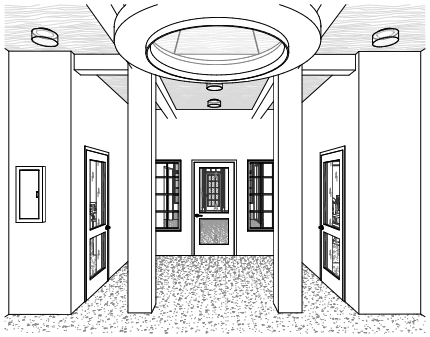
A800A

CD PROGRESS SET

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:29:39 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Devpmt - R20250430_CMHA Refugee Rd Housing_R23.rvt

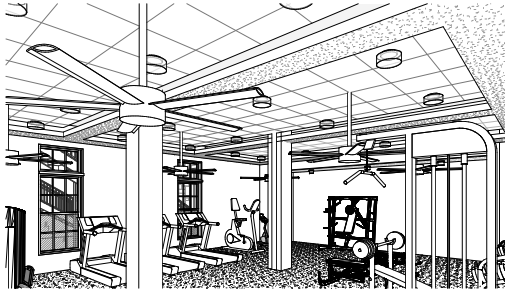
© 2025 MOODY NOLAN, INC.

SEE CLUBHOUSE FLOOR PLAN ON SHEET A106D
FOR LOCATION OF VIEW POINTS

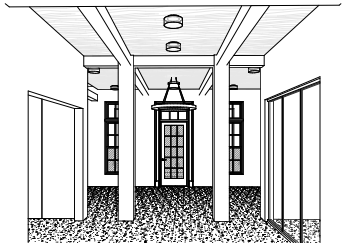


6 PERSPECTIVE 3D View - REAR LOBBY LOOKING SOUTH

5 PERSPECTIVE 3D View - FRONT LOBBY LOOKING NORTH

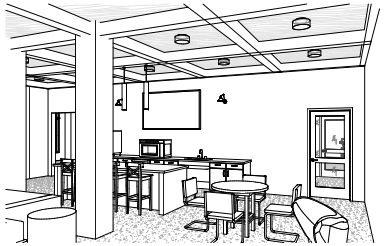


4 PERSPECTIVE 3D View - FITNESS LOOKING NORTH-WEST



3 PERSPECTIVE 3D View - GALLERY - LOOKING SOUTH

2 PERSPECTIVE 3D View - CLUB LOOKING NORTH-EAST



1 PERSPECTIVE 3D View - CLUB LOOKING SOUTH-WEST

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

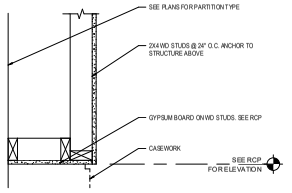
DRAWING TITLE:
CLUBHOUSE - INTERIOR 3D VIEWS

05/01/2025
23446
A801D
CD PROGRESS SET

PROGRESS DRAWING
NOT FOR CONSTRUCTION

PRINT VERSION: 2025
PRINT DATE: 6/11/2025 2:29:50 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R25/23446_CMHA Refugee Rd Housing_ARCH_R25.rvt

© 2025 MOODY NOLAN INC.



1 **DETAIL** SOFFIT @ CASEWORK
1 1/2" = 1'-0"

GENERAL NOTES - INTERIOR DETAILS

1. X

KEYNOTE LEGEND

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD. COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:

INTERIOR DETAILS - BUILDINGS A-C

05/01/2025

23446

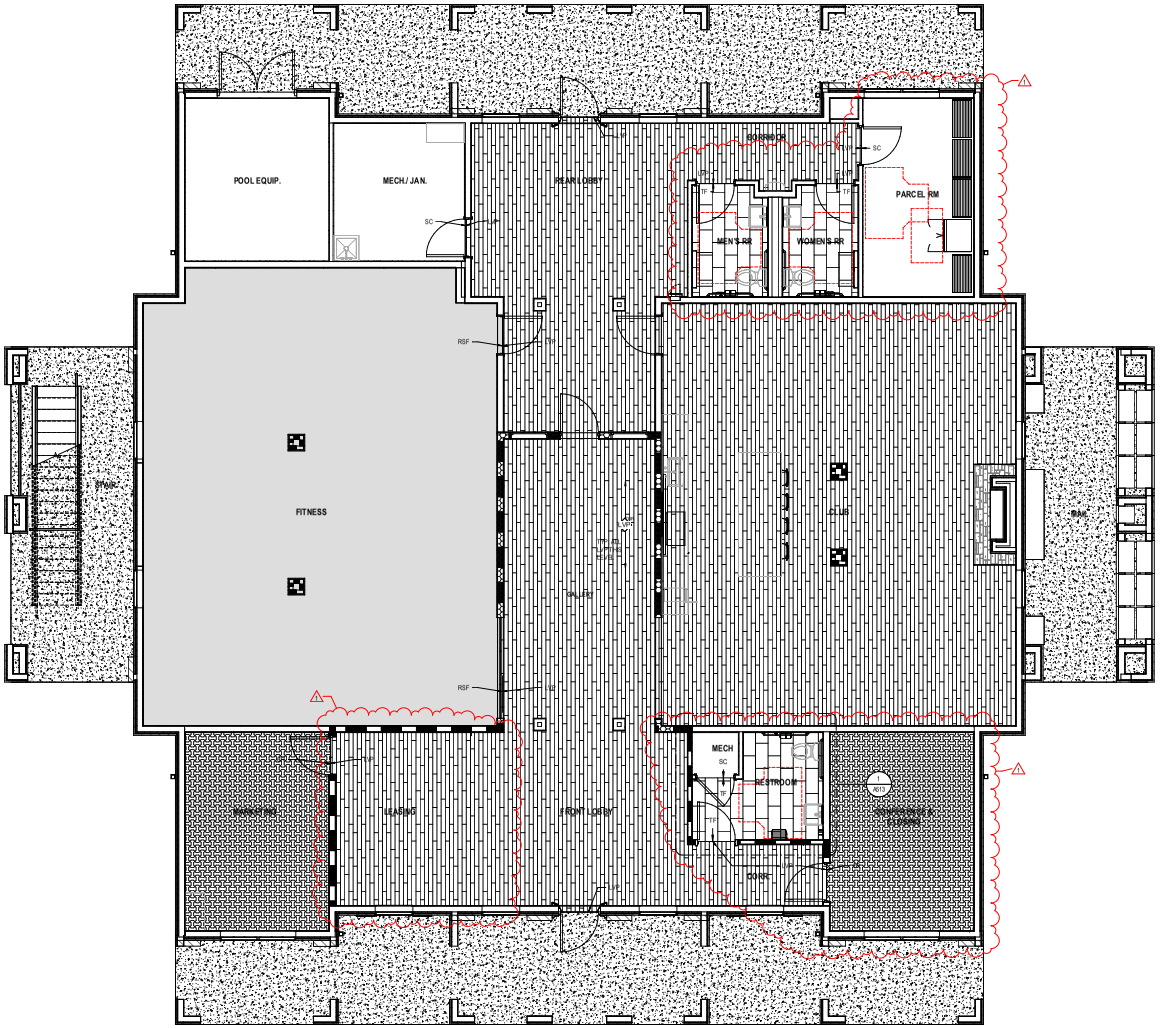
PROGRESS DRAWING NOT FOR CONSTRUCTION

A825

CD PROGRESS SET

REVIT VERSION: 2023
PRINT DATE: 5/1/2025 2:29:51 PM
FILE PATH: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2025 MOODY NOLAN, INC.



1 **PLAN** LEVEL 01 - FINISH PLAN - OVERALL
1/4" = 1'-0"

GENERAL NOTES - FINISH PLANS

1. STANDARDS AND PROCEDURES FOR THE PREPARATION AND APPLICATION OF INTERIOR FINISHES ARE DEFINED IN THE PROJECT MANUAL, FINISH (SUB) CONTRACTORS ARE REQUIRED TO READ, UNDERSTAND AND FOLLOW ALL RELEVANT SECTIONS OF THE PROJECT MANUAL.
2. FINISH MATERIALS ARE LISTED IN THE LEGEND COMPONENT OF THE FINISH SCHEDULE. SPECIFICATIONS ARE INCLUDED IN THE PROJECT MANUAL. ANY CONFLICTS OR DISCREPANCIES BETWEEN THESE TWO SHOULD BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
3. NO FINISH MATERIAL SUBSTITUTIONS WILL BE ACCEPTED EXCEPT IN THE SPECIFIC CIRCUMSTANCES ENUMERATED IN THE PROJECT MANUAL.
4. PAINTED HOLLOW METAL DOORS AND FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR UNLESS NOTED OTHERWISE. MATERIAL, FINISH AND COLOR INFORMATION FOR ALL OTHER DOORS AND FRAMES IS CONTAINED IN THE DOOR SCHEDULE AND ITS ASSOCIATED LEGENDS. IF WALLS ON OPPOSITE SIDES OF DOOR FRAME ARE DIFFERENT COLORS THE PAINT COLORS SHOULD BE SPLIT AT THE JAMB OF THE FRAME.
5. ALL VERTICAL TRANSITIONS BETWEEN DIFFERING WALL FINISHES ARE TO BE MADE AT INSIDE CORNERS (UNLESS NOTED OTHERWISE).
6. FLOORING MATERIAL DESIGNATED FOR STAIRS IS TO INCLUDE STAIR AND ALL ASSOCIATED TREADS, RISERS, LANDINGS, ETC. (UNLESS NOTED OTHERWISE).
7. FOR CLARITY, SOME FINISH INFORMATION HAS BEEN PRESENTED GRAPHICALLY IN THE FORM OF FINISH AND FLOORING PLANS. SHOULD THERE BE A DISCREPANCY BETWEEN THE FINISH SCHEDULE AND THESE PLANS, THE ARCHITECT SHOULD BE NOTIFIED IMMEDIATELY. FOR THE PURPOSE OF BIDDING, INFORMATION DETAILED ON THE FINISH FLOOR PLANS AND FLOORING PLANS IS TO TAKE PRECEDENCE OVER THE FINISH SCHEDULE UNTIL FURTHER CLARIFICATION CAN BE GIVEN. FOR AREAS NOT SPECIFICALLY DETAILED ON THESE PLANS, THE FINISH SCHEDULE PERTAINS.
8. WHERE RESILIENT BASE IS SPECIFIED (VINYL OR RUBBER) PROVIDE COVE PROFILE BASE AT ALL RESILIENT FLOORS AND STRAIGHT BASE FOR ALL CARPET AREAS (UNLESS OTHERWISE NOTED). HEIGHT AND COLOR TO BE AS INDICATED ON FINISH LEGEND.
9. REFER TO REFLECTED CEILING PLANS AND SPECIFICATION MANUAL FOR ALL CEILING MATERIAL AND FINISH INFORMATION.
10. ALL DRYWALL SOFFITS TO BE PAINTED FLAT CEILING WHITE UNLESS NOTED OTHERWISE ON CEILING PLANS.
11. CERAMIC WALL TILE TO EXTEND FULL WIDTH AND FULL HEIGHT FOR ANY AND ALL SCHEDULED TILED WALLS (UNLESS NOTED OTHERWISE).
12. FOR EPOXY OR INTUMESCENT PAINT COLOR REFER TO PAINT SCHEDULE NUMBERS.
13. WITHIN FINISH SCHEDULE CELLS: SLASH MARKS INDICATE DIFFERENCES IN FINISH MATERIAL WHILE COMMAS INDICATE DIFFERENCES IN PATTERN OR COLOR WITHIN A SPECIFIC MATERIAL.
14. APPROPRIATE METAL OR VINYL TRANSITION STRIPS MUST BE PROVIDED AT ALL FINISH MATERIAL FLOORING CHANGES. GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FLOORING TRANSITIONS AND AREAS IN WHICH FLOORING PATTERNS ARE SHOWN. SEE FLOOR FINISH PLANS, DETAILS AND NOTES FOR SPECIFIC INFORMATION.
15. WALL PAINT INDICATED FOR CURTAIN WALL LOCATIONS APPLIES TO ALL ASSOCIATED DRYWALL COMPONENTS (CURBS, HEADERS, BULKHEADS, ETC.) AND SHOULD NOT BE INTERPRETED AS APPLYING TO CURTAIN WALL COMPONENTS OR GLASS.
16. FLOORING CONTRACTOR(S) IS RESPONSIBLE FOR COORDINATING FINISHED FLOOR ELEVATIONS WITH ALL ANY FLOOR MOUNTED COMPONENTS (RECEPTACLES, ACCESS PANELS, ETC.) SO THAT COMPONENTS ARE INTEGRATED AND FLUSH.

FLOOR PATTERN LEGEND

- CR2 - CARPET TILE
- FT1 - TILE FLOOR
- LVP1 - LUXURY VINYL PLANK
- RSF1 - RESILIENT SPORTS FLOOR

#	DATE	CHANGE DESCRIPTION
1	06/11/25	ADDENDUM 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

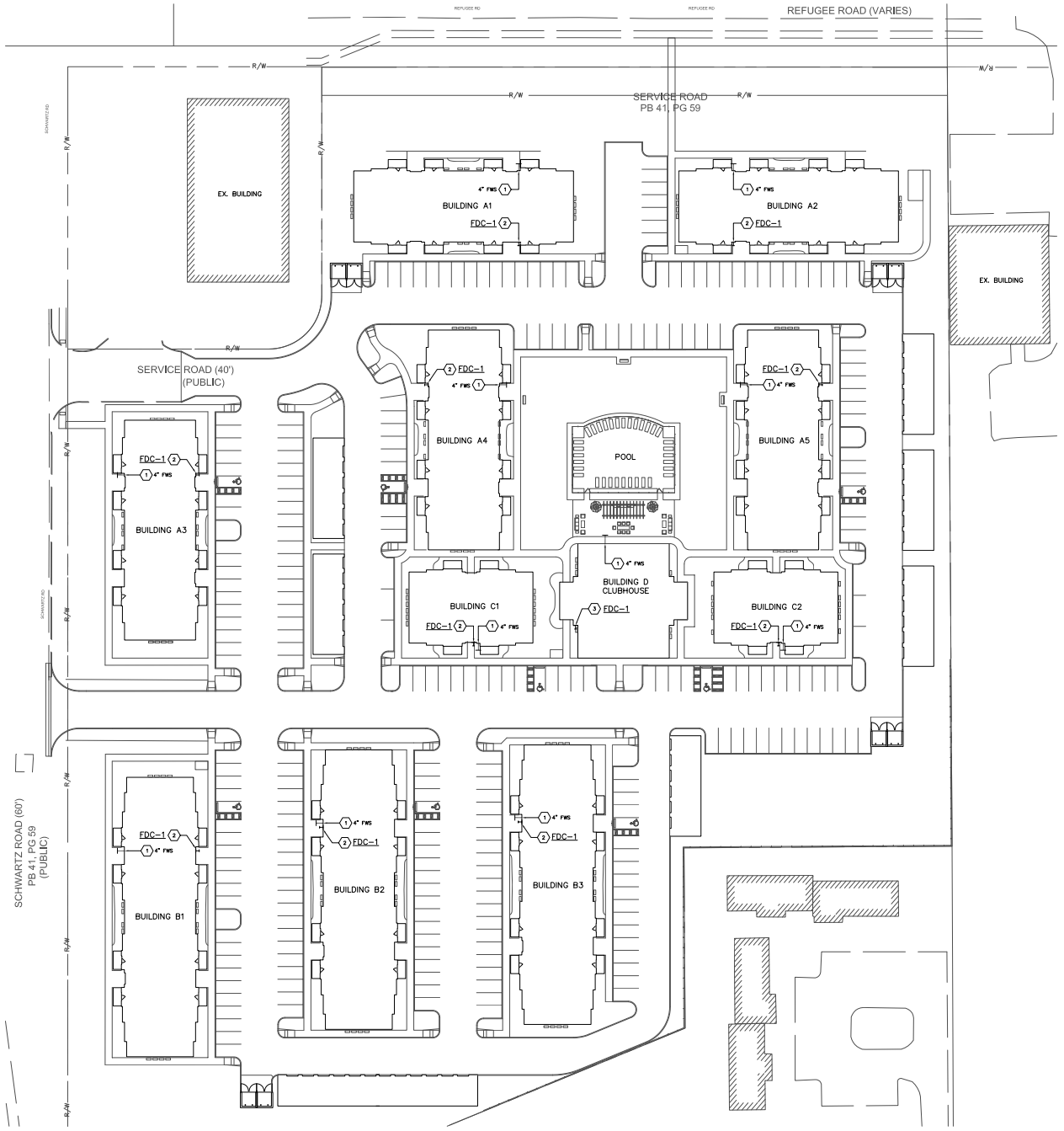
DRAWING TITLE:
CLUBHOUSE - FINISH PLAN - OVERALL

05/01/2025
23446
A900D
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

PRINT VERSION: 2023
PRINT DATE: 6/11/2025 2:28:53 PM
FILE INFO: Autodesk Docs://23446_CMHA Refugee Rd Housing Project - R23/23446_CMHA Refugee Rd Housing_ARCH_R23.rvt

© 2024 MOODY NOLAN INC.



FIRE PROTECTION SITE PLAN
SCALE: 1"=30'-0"

GENERAL NOTES

A. COORDINATE ALL SITE WORK WITH NEW AND EXISTING UTILITIES, SITE CONDITIONS AND OTHER TRADES.

SITE UTILITY NOTES

1. ALL PIPING SHOWN ON THIS DRAWING IS BELOW GRADE, UNLESS INDICATED OTHERWISE.
2. REFER TO CIVIL ENGINEERING, ARCHITECTURAL, LANDSCAPING AND OTHER DOCUMENTATION (AS APPLICABLE) INCLUDED WITH PROJECT CONSTRUCTION PACKAGE FOR CONFIRMATION OF ITEMS/CONDITIONS INDICATED, AND ADDITIONAL WORK IN THESE AREAS UNDER SEPARATE CONTRACT THAT IMPACTS/INTERFACES WITH WORK IN THIS CONTRACT. COORDINATE ALL INFORMATION PROVIDED AS REQUIRED FOR PROPER INSTALLATION/OPERATION OF ITEMS/ELEMENTS.
3. NOTE THAT INFORMATION PROVIDED REGARDING EXISTING ITEMS/ ELEMENTS IS FROM FIELD OBSERVATION AND EXISTING DOCUMENTATION AVAILABLE FOR THE AREAS INDICATED. ACTUAL CONDITIONS, SIZES, LOCATIONS, ETC. TO BE FIELD VERIFIED BY THIS CONTRACTOR IN ADVANCE OF WORK.
4. INSTALLATION OF UNDERGROUND GAS SERVICE AND APPURTENANCES TO COMPLY WITH THE REQUIREMENTS AND GUIDELINES OF THE GAS COMPANY/AUTHORITY IN RESPECT TO MATERIALS AND METHODS, CONFIRMED IN ADVANCE OF WORK.
5. COORDINATE INSTALLATION OF ALL ITEMS/WORK WITH SITE CONDITIONS (NEW AND EXISTING) AND WORK OF OTHER TRADES, BOTH IN AND AT GRADE. EXISTING SITE CONDITIONS TO BE CONFIRMED IN THE FIELD (WHETHER INDICATED ON PLANS OR NOT).
6. PRIOR TO START OF WORK, THIS CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY INFORMATION SERVICE AT 800-362-2764 TO ARRANGE FOR CONFIRMATION OF EXISTING UNDERGROUND ELEMENTS (WHETHER INDICATED ON PLANS OR NOT).
7. WORK IMPACTING SPECIFIC UTILITIES TO BE COORDINATED/SCHEDULED WITH THE APPROPRIATE AUTHORITIES AND THE OWNER IN ADVANCE. INTERRUPTION OF OR IMPAIRMENT TO SERVICE (IF REQUIRED) TO BE KEPT TO A MINIMUM.
8. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND REPAIR/REPLACEMENT OF ANY EXISTING FINISH SURFACES AND/OR STRUCTURES AS REQUIRED TO EXECUTE INSTALLATION OF NEW WORK AND ALL ASSOCIATED ELEMENTS. THIS INCLUDES ELEMENTS THAT MAY NOT BE INDICATED ON PLANS WHICH SHALL BE IDENTIFIED BY FIELD VERIFICATION. REPAIR/REPLACEMENT OF SURFACES AND/OR STRUCTURES TO BE TO ORIGINAL CONDITION, AND MATCHING ADJACENT SURFACES AND/OR STRUCTURES IN TYPE, KIND AND FINISH. SPECIFICS FOR SEEDING, RE-SODDING OR PLANTING TO BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE. SURFACE REPAIR/REPLACEMENT IS NOT APPLICABLE IF SUCH WORK IS BEING PROVIDED UNDER SEPARATE CONTRACT AS PART OF THIS PROJECT.
9. PROVIDE PROTECTIVE BOLLARDS AT ALL WALL OR GRADE MOUNTED ELEMENTS IN OR ADJACENT TO AREAS WITH VEHICLE ACCESS, INCLUDING TRACTORS, FORK LIFTS, TOW MOTORS, ETC.). ELEMENTS REQUIRING PROTECTION INCLUDE FIRE DEPARTMENT INLET CONNECTIONS, POST INDICATOR VALVES, HYDRANTS, FREE STANDING HOSE CONNECTIONS, METERS, REGULATORS, TEST HEADERS, GAS METER/REGULATORS ETC. BOLLARDS TO BE PROVIDED ON ALL SIDES (MAX. OF FOUR) WITH VEHICLE ACCESS AT EACH ELEMENT'S INSTALLATION. BOLLARDS TO CONSIST OF A 6" DIAMETER SCHEDULE 40 GALVANIZED STEEL PLAIN END PIPE ORIENTED ALL AND SET IN TRUE VERTICAL POSITION. PROVIDE EIGHT FOOT LONG PIPE LENGTH WITH 48" EXPOSED ABOVE GRADE, AND MINIMUM OF FOUR CUBIC FEET CONCRETE BASE FOR STABILIZATION. PROVIDE TWO COATS OF LISTED WEATHERPROOF PAINT APPLIED IN FIELD, COLOR TO MATCH OWNER'S SPECIFICATION.
10. EXCAVATION AND ALL OTHER WORK ASSOCIATED WITH THIS PROJECT TO BE DONE IN SUCH A MANNER AS TO MINIMIZE POTENTIAL FOR DAMAGE TO EXISTING UNDERGROUND UTILITIES, STRUCTURES, AND OTHER ELEMENTS WITHIN AND ADJACENT TO THE CONSTRUCTION LIMITS, WHETHER INDICATED ON DRAWINGS OR NOT. DAMAGE TO ELEMENTS AS A RESULT OF WORK IN THIS CONTRACT SHALL BE REPAIRED TO THE OWNER'S AND/OR UTILITY AUTHORITY'S SATISFACTION, AT THIS CONTRACTORS EXPENSE.
11. ALL SITE GRADES/ELEVATIONS AND EXACT LOCATIONS OF ITEMS/ ELEMENTS TO BE IN, AT OR FLUSH WITH FINISHED SURFACE OR SITE STRUCTURES (MANHOLES, CURBS, PITS, SLABS ON GRADE, ETC.) PROVIDED IN THIS CONTRACT, OR UNDER SEPARATE CONTRACT TO BE CONFIRMED WITH THE SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, & INSTALLATION COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). THIS INCLUDES DRAIN INLETS, ACCESS FRAMES AND COVERS, CURB BOXES, INDICATING POST ASSEMBLIES, ETC. SPECIAL CONSIDERATION IS TO BE GIVEN TO DRAIN INLETS IN SLOPED STRUCTURE/SURFACE TO INSURE PROPER PLACEMENT AND OPERATION.
12. ALL NEW AND/OR EXISTING SITE GRADES/ELEVATIONS RELATIVE TO MINIMUM COVER REQUIREMENTS FOR UNDERGROUND ITEMS/ELEMENTS INSTALLATION TO BE CONFIRMED IN FIELD AND/OR WITH SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED AS REQUIRED.
13. ALL SITE GRADES/ELEVATIONS RELATIVE TO EXTENSION ASSEMBLIES REQUIRED FOR OPERATION OF OR ACCESS TO UNDERGROUND ITEMS/ ELEMENTS TO BE CONFIRMED WITH THE SITE IMPROVEMENTS/ MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED WITH THE APPROPRIATE CONTRACTOR. THIS INCLUDES OPERATION EXTENSIONS FOR UNDERGROUND VALVES, ACCESS EXTENSIONS FOR EXTERIOR CLEANOUTS OR PIT FRAMES AND COVERS, ETC.

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
3. PROVIDE STORZ FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FIRE PROTECTION SITE PLAN

FP100-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	C.ANDERSON	24217

05/01/2025

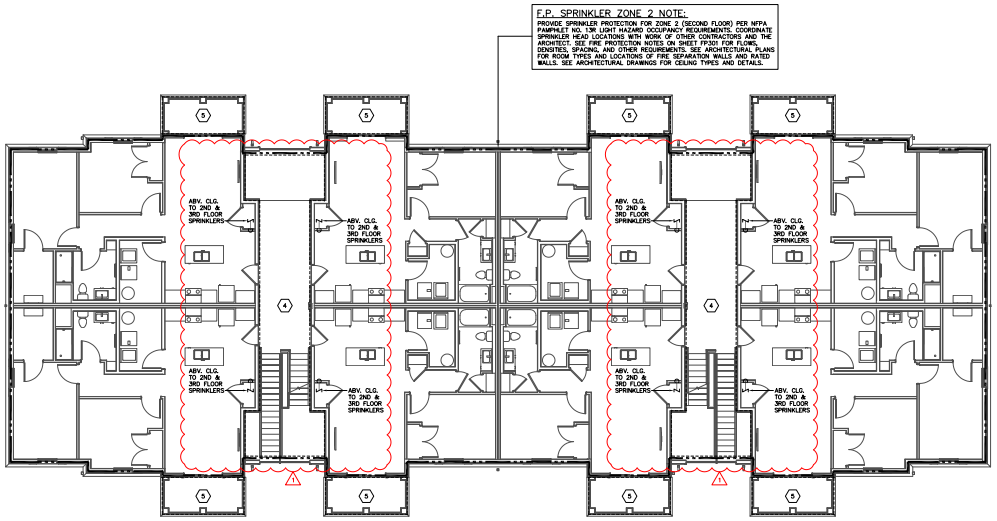
23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

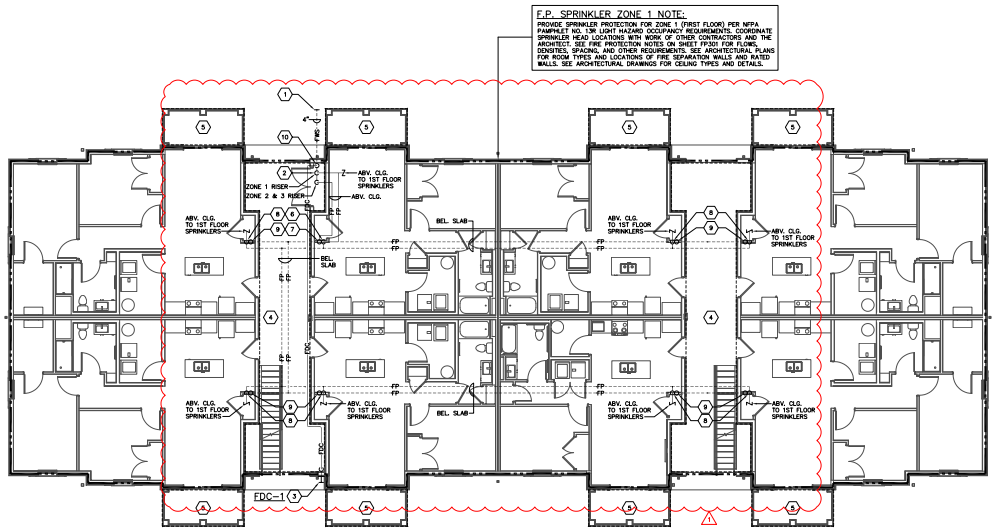
NEW SHEET ISSUED
FP100

CD PROGRESS SET

© 2024 MOODY NOLAN, INC.



LEVEL 02 FIRE PROTECTION PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 01 FIRE PROTECTION PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. DROP FIRST FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
7. SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING IN WALL STRUCTURE UP TO SECOND FLOOR AND DOWN TO BELOW SLAB.
8. RISE FIRST FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE TO ABOVE CEILING.
9. RISE SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE TO SECOND FLOOR.
10. DROP 2-1/2" FDC INLET PIPING IN RISER CLOSET TO INLET CHECK VALVE. ALL PIPING IN BREEZEWAY FROM FDC TO CHECK VALVE IN RISER CLOSET SHALL BE DRY.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE ROUTED FROM THE FLOOR CONTROL ASSEMBLY AND RISER IN THE ELECTRIC/WATER CLOSET ABOVE THE CONTROL VALVE AND ROSE TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 01 & 02
FIRE PROTECTION PLANS

05/01/2025
23446
FP101-A
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

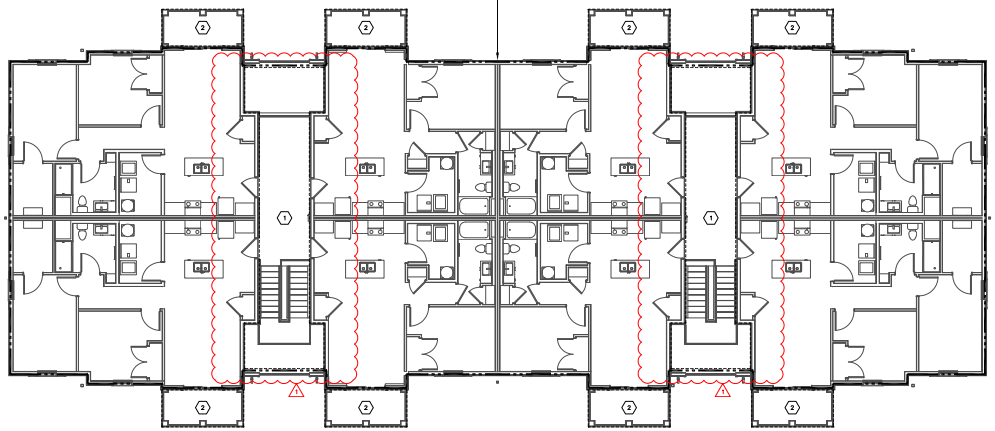
FP101-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

© 2024 MOODY NOLAN INC.

F.P. SPRINKLER ZONE 3 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 3 (THIRD FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 03 FIRE PROTECTION PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES

1. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY. AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
2. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR END OF BREEZEWAY WALLS ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03
FIRE PROTECTION PLAN

05/01/2025
23446
FP102-A
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES.

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID, SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

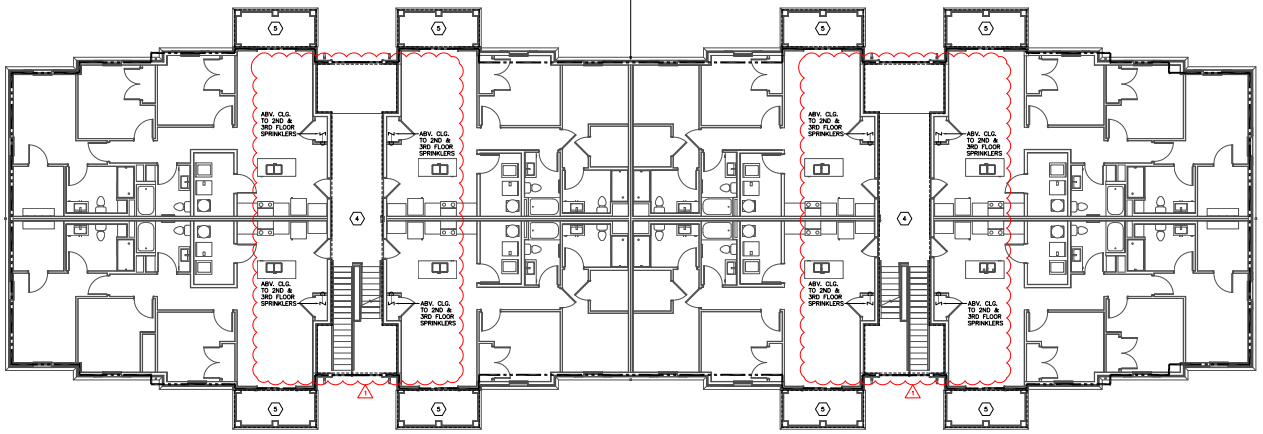
FP102-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

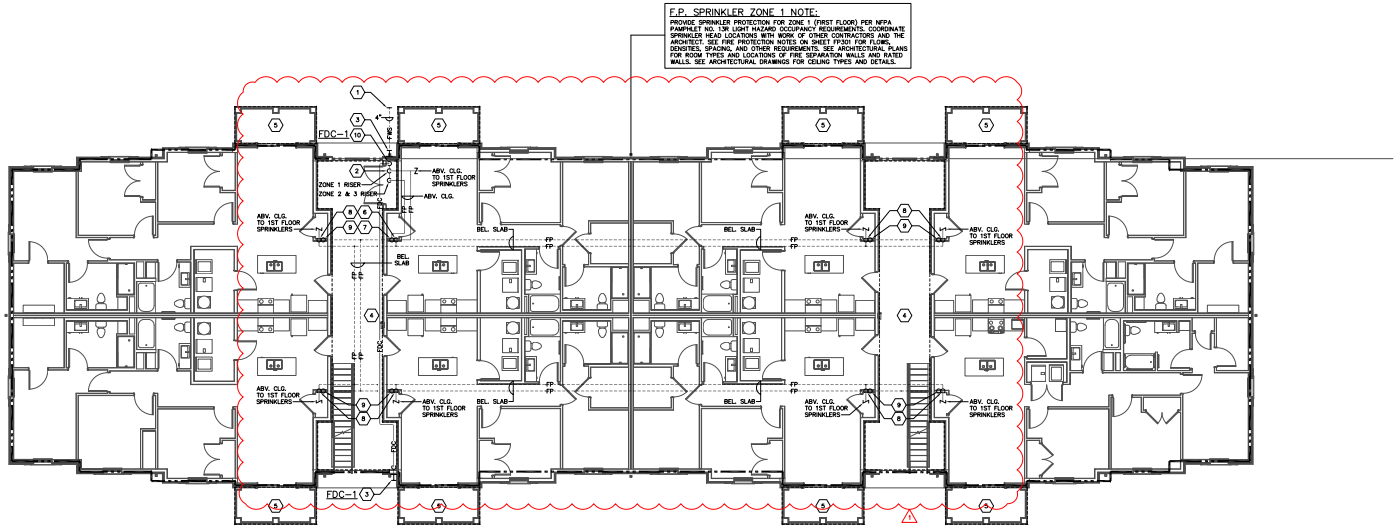
© 2024 MOODY NOLAN INC.

F.P. SPRINKLER ZONE 2 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 2 (SECOND FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 02 FIRE PROTECTION PLAN – BUILDING B
SCALE: 1/8"=1'-0"

F.P. SPRINKLER ZONE 1 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 1 (FIRST FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 01 FIRE PROTECTION PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. FDC SHALL BE LOCATED ON PARKING SIDE OF BUILDING. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET FIRE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. DROP FIRST FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
7. SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING IN WALL STRUCTURE UP TO SECOND FLOOR AND DOWN TO BELOW SLAB.
8. RISE FIRST FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE TO ABOVE CEILING.
9. RISE SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE TO SECOND FLOOR.
10. DROP 2-1/2" FDC INLET PIPING IN RISER CLOSET TO INLET CHECK VALVE. ALL PIPING IN BREEZEWAY FROM FDC TO CHECK VALVE IN RISER CLOSET SHALL BE DRY.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SEPARATE CONTROL VALVE ASSEMBLIES FOR EACH OF THE 2ND AND 3RD FLOORS SHALL BE INSTALLED IF RISING THE FIRE SPRINKLER PIPING AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 01 & 02
FIRE PROTECTION PLANS

05/01/2025
23446
FP103-B
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(ES) HAVING JURISDICTION FOR REVIEW.

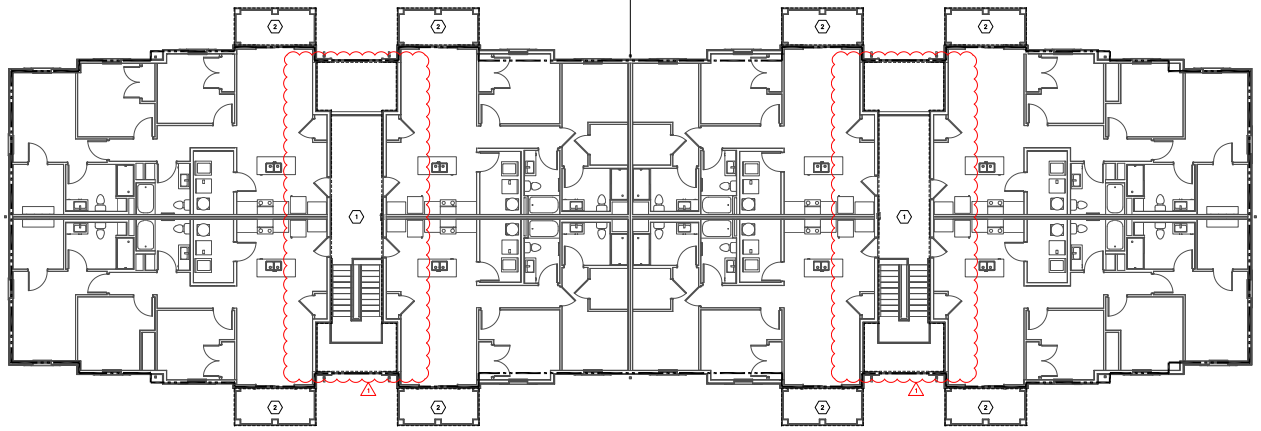
FP103-B-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

© 2024 MOODY NOLAN INC.

F.P. SPRINKLER ZONE 3 NOTE:
PROVIDE SPRINKLER PROTECTION FOR ZONE 3 (THIRD FLOOR) PER NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY REQUIREMENTS. COORDINATE SPRINKLER HEAD LOCATIONS WITH WORK OF OTHER CONTRACTORS AND THE ARCHITECT. SEE FIRE PROTECTION NOTES ON SHEET FP301 FOR FLOWS, DENSITIES, SPACING, AND OTHER REQUIREMENTS. SEE ARCHITECTURAL PLANS FOR ROOM TYPES AND LOCATIONS OF FIRE SEPARATION WALLS AND RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND DETAILS.



LEVEL 03 FIRE PROTECTION PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY. AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
2. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR END 'A' BREEZEWAY WALLS ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EMPOWER. DEMPOWER. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03
FIRE PROTECTION PLANS

05/01/2025
23446
FP104-B
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

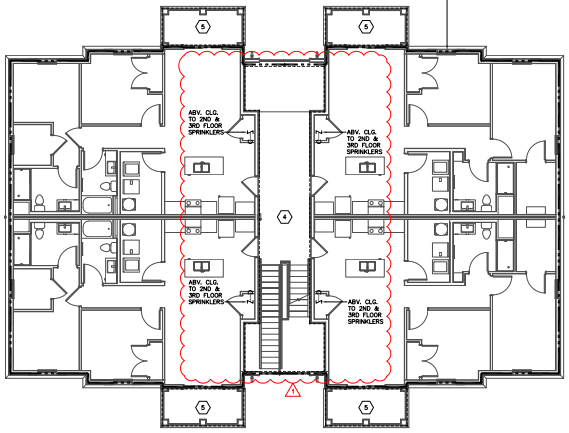
THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP104-B-24217.DWG

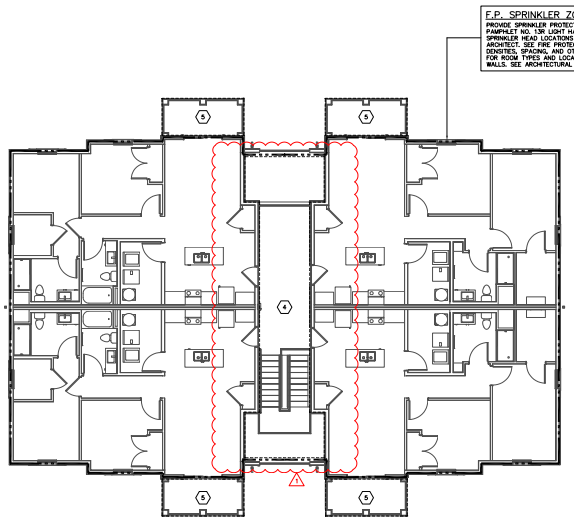
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	C.ANDERSON	24217

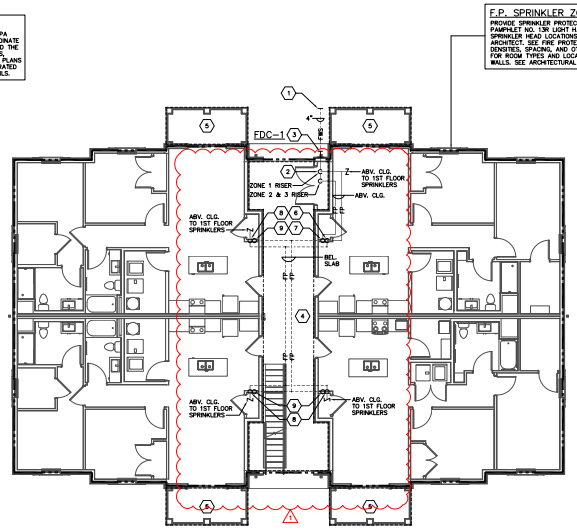
© 2024 MOODY NOLAN, INC.



LEVEL 02 FIRE PROTECTION PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 03 FIRE PROTECTION PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 01 FIRE PROTECTION PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP200 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN UNITS FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. DROP FIRST FLOOR SPRINKLER SUPPLY PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO BELOW SLAB.
7. SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING IN WALL STRUCTURE UP TO SECOND FLOOR AND DOWN TO BELOW SLAB.
8. RISE FIRST FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE TO ABOVE CEILING.
9. RISE SECOND AND THIRD FLOOR SPRINKLER SUPPLY PIPING FROM BELOW SLAB IN WALL STRUCTURE TO SECOND FLOOR.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR ELECTRIC/WATER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMMON 2ND AND 3RD FLOORS SHALL BE ROUTED IN THE CONCEALED SPACE AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL.

NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 3RD FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING C
FIRE PROTECTION PLANS

05/01/2025
23446
FP105-C
CD PROGRESS SET

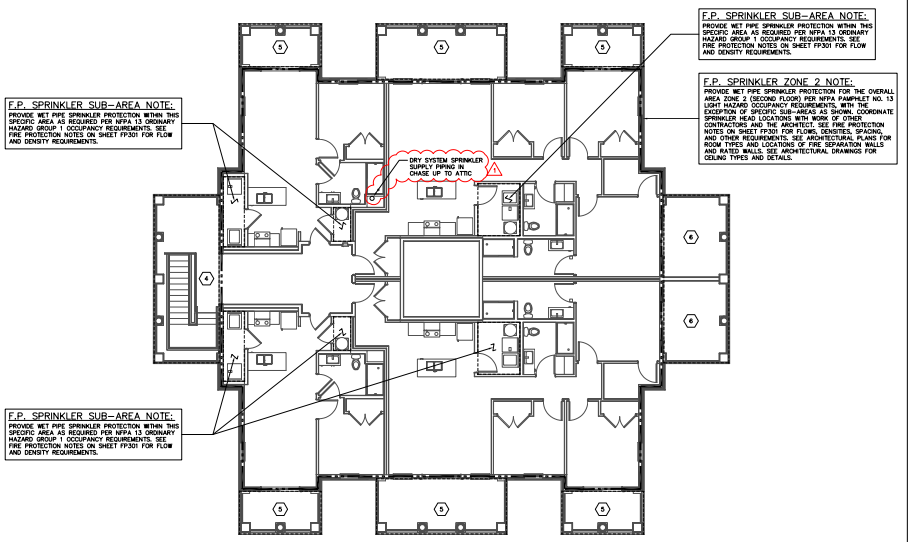
PROGRESS DRAWING NOT FOR CONSTRUCTION

FP105-C-24217.DWG

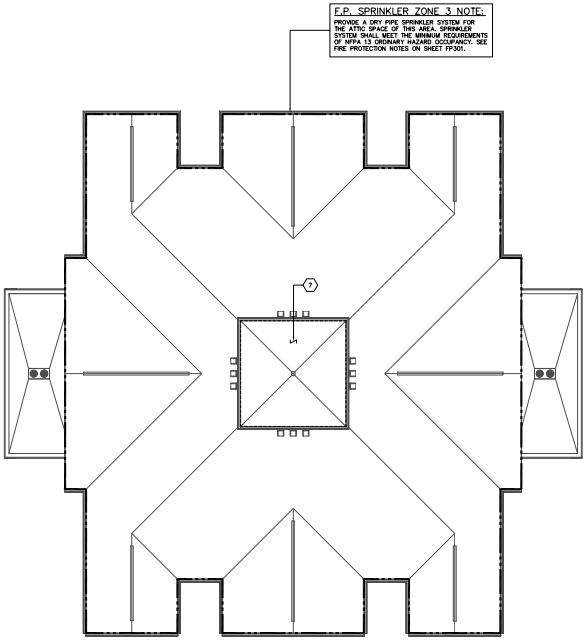
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

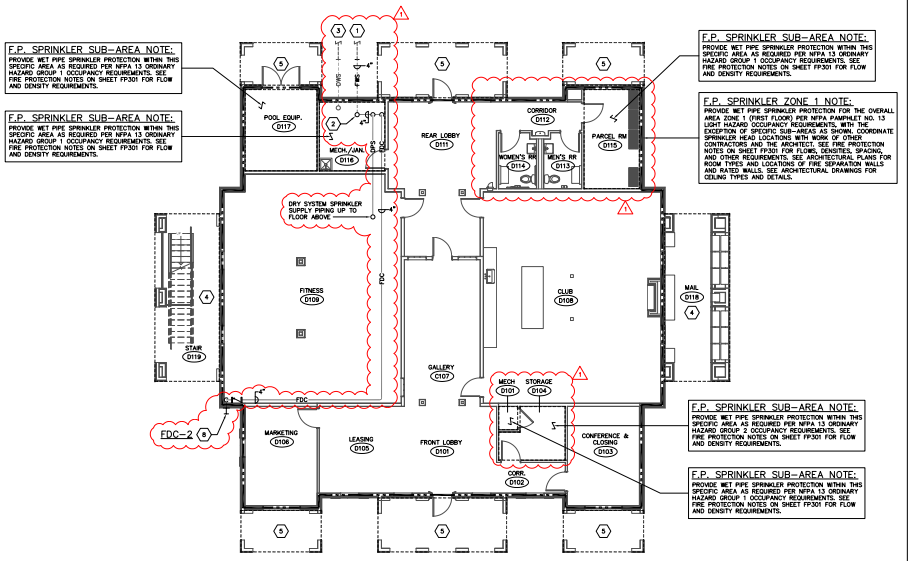
© 2024 MOODY NOLAN INC.



LEVEL 02 FIRE PROTECTION PLAN – BUILDING D
SCALE: 1/8"=1'-0"



ROOF FIRE PROTECTION PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 FIRE PROTECTION PLAN – BUILDING D
SCALE: 1/8"=1'-0"

FP106-D-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

CODED NOTES

1. 4" FIRE WATER SERVICE (FWS) FROM SITE FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. REFER TO ENLARGED RISER ROOM FIRE PROTECTION PLAN ON SHEET FP201 FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE FROM BELOW SLAB FLANGED AT A MIN. 12" ABOVE FINISH FLOOR BY FIRE PROTECTION CONTRACTOR. SEE ENLARGED PLAN ON SHEET FP201 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
3. 2-1/2" DOMESTIC WATER SERVICE (DWS). SEE PLUMBING DRAWINGS.
4. PROVIDE DRY BARREL SIDEWALL SPRINKLER HEADS CONNECTED TO WET PIPE FIRE PROTECTION SYSTEM WITHIN BUILDING FOR BREEZEWAY AREA. SPRINKLER SYSTEM SHALL MEET THE MINIMUM REQUIREMENTS OF NFPA PAMPHLET NO. 13R LIGHT HAZARD OCCUPANCY. SEE FIRE PROTECTION NOTES ON SHEET FP301.
5. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF EXTERIOR BALCONY. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
6. PROVIDE EXTENDED COVERAGE DRY-BARREL SIDE-WALL HEADS WITH MANUFACTURER APPLIED POLYESTER FINISH, COLOR PER ARCHITECT, AT UNDERSIDE OF OPEN TERRACE. INSTALLATION TO BE COORDINATED WITH ARCHITECT AND STRUCTURE IN ADVANCE OF ANY WORK. SEE FIRE PROTECTION NOTES ON SHEET FP301.
7. PROVIDE HIGH TEMPERATURE HEADS IN CUPOLA.
8. PROVIDE STORZ FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THIS CONTRACTOR. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. EXACT LOCATION AND MOUNTING HEIGHT TO BE COORDINATED WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF WORK. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
9.

PIPING INSTALLATION NOTE

A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 1ST AND 2ND FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR MECHANICAL ROOM, CONNECTED TO THE SYSTEM RISER AT 1ST LOCATION. SPRINKLER SUPPLY PIPING FOR THE COMBINED 1ST AND 2ND FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 1ST FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 2ND FLOOR LEVEL.

NO WET SYSTEM SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, ABOVE THE BREEZEWAY CEILINGS OR ABOVE THE 2ND FLOOR CEILINGS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

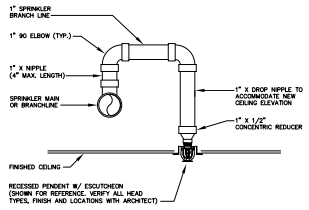
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - LEVEL 01 & 02 FIRE PROTECTION PLANS

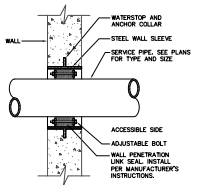
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
FD106-D
CD PROGRESS SET

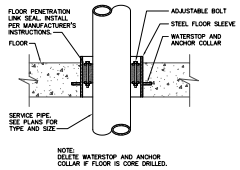
© 2024 MOODY NOLAN INC.



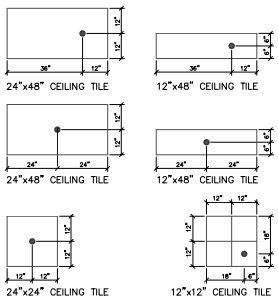
TYPICAL ARMOVER DETAIL
NO SCALE



WALL PENETRATION WATERTIGHT PIPE SEAL DETAIL
NO SCALE

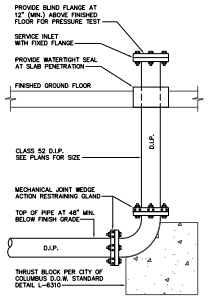


FLOOR SLAB PENETRATION WATERTIGHT PIPE SEAL DETAIL
NO SCALE

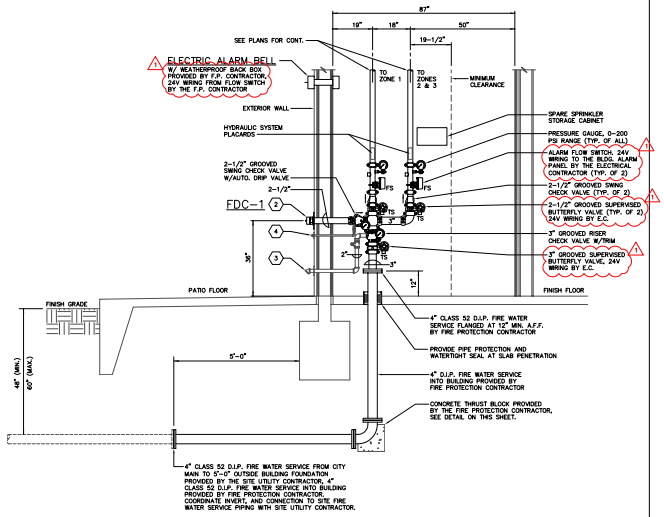


SPRINKLER HEAD LOCATION NOTES:
1. ALL LOCATIONS INDICATED ARE TO BE MAINTAINED WITHIN PLUS OR MINUS 1/2", AND ALIGNED WITH ADJACENT HEADS FOR A UNIFORM, EVEN APPEARANCE OF COMPLETED INSTALLATION. POSITIONS INDICATED APPLY TO FULL SIZE SMOOTH SURFACE TILES, AS WELL AS FULL SIZE SUB-GRIDDED (SCORED OR GRAPHICALLY DIVIDED) SURFACE TILES. THE APPEARANCE OF THE FINISHED CEILING TILE FACE AS INSTALLED OVERRIDES THE ACTUAL PHYSICAL DIMENSIONS OF THE TILE FOR PLACEMENTS INDICATED HEREIN. VERIFY CEILING TILE TYPES FROM ARCHITECTURAL DOCUMENTATION.
2. PENDANT SPRINKLER HEADS TO BE INSTALLED WITH DEFLECTORS AT SAME ELEVATION AS ADJACENT SPRINKLERS IN SAME AREA/ENCLOSURE, PLUS OR MINUS 1/4". RECESSED HEADS TO BE INSTALLED SO DEFLECTOR IS A MAXIMUM OF 1" BELOW THE ELEVATION OF THE CEILING PLANE. CONCEALED HEADS TO BE INSTALLED WITH COVERS FLUSH TO CEILING PLANE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
3. INSTALLATION OF ALL SPRINKLER HEADS TO BE COORDINATED WITH STRUCTURE AND WORK OF OTHER TRADES, VERIFIED IN ADVANCE BY THE FIRE PROTECTION CONTRACTOR.

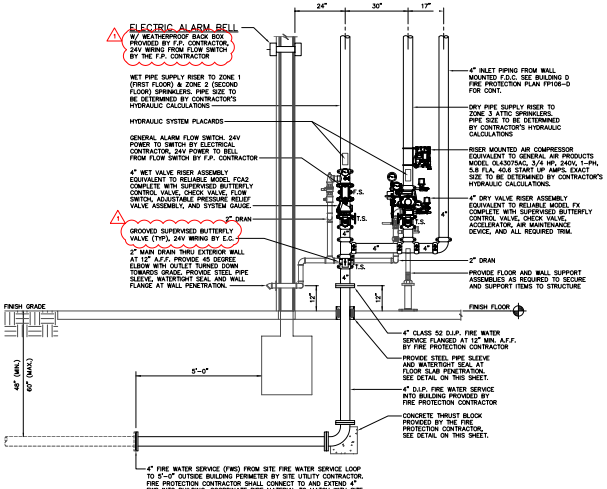
SPRINKLER HEAD LOCATION DETAIL
NO SCALE



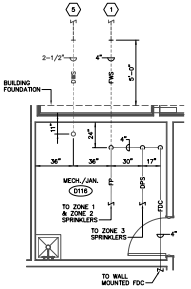
THRUST BLOCK DETAIL
NO SCALE



BUILDINGS A, B, & C FIRE WATER SERVICE RISER DIAGRAM

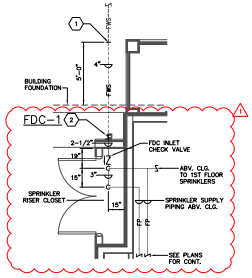


BUILDINGS D – CLUBHOUSE FIRE WATER SERVICE RISER DIAGRAM



BUILDINGS D – CLUBHOUSE ENLARGED MECH./JAN. ROOM
SCALE: 1/8"=1'-0"

WATER SERVICE NOTES
1. WATER SERVICE ENTRANCE MATERIALS, INSTALLATION, AND ALL COMPONENTS (INCLUDING BUT NOT LIMITED TO METERS AND BACKFLOW PREVENTERS) TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF COLUMBUS DIVISION OF WATER, VERIFIED IN ADVANCE OF ANY WORK.
2. PROVIDE FLOOR AND WALL SUPPORT ASSEMBLIES AS REQUIRED TO SECURE AND SUPPORT ITEMS INDICATED AT STRUCTURE, PIPE STANDS EQUAL TO ANVIL FIG. 62, WALL BRACKETS EQUAL TO ANVIL FIG. 199.
3. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SCALED AND/OR DIMENSIONED ROUGH-IN DRAWING TO THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL.



BUILDINGS A, B, & C ENLARGED SPRINKLER RISER CLOSET
SCALE: 1/8"=1'-0"

WATER SERVICE NOTES
1. WATER SERVICE ENTRANCE MATERIALS, INSTALLATION, AND ALL COMPONENTS (INCLUDING BUT NOT LIMITED TO METERS AND BACKFLOW PREVENTERS) TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF COLUMBUS DIVISION OF WATER, VERIFIED IN ADVANCE OF ANY WORK.
2. PROVIDE FLOOR AND WALL SUPPORT ASSEMBLIES AS REQUIRED TO SECURE AND SUPPORT ITEMS INDICATED AT STRUCTURE, PIPE STANDS EQUAL TO ANVIL FIG. 62, WALL BRACKETS EQUAL TO ANVIL FIG. 199.
3. THE FIRE PROTECTION CONTRACTOR SHALL PREPARE AND SUBMIT A SCALED AND/OR DIMENSIONED ROUGH-IN DRAWING TO THE CITY OF COLUMBUS DIVISION OF WATER PRIOR TO INSTALLATION FOR REVIEW AND APPROVAL.

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP201-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

CODED NOTES
1. 4" FIRE WATER SERVICE (FWS) FROM FIRE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING PERIMETER BY SITE UTILITY CONTRACTOR. FIRE PROTECTION CONTRACTOR SHALL CONNECT TO AND EXTEND 4" FWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. PROVIDE 2-1/2" SINGLE FLUSH FIRE DEPARTMENT INLET CONNECTION AT WALL STRUCTURE BY THE CONTRACTOR. REFER TO FIRE PROTECTION SITE PLAN FP101 FOR LOCATION OF FDC AT EACH BUILDING. REFER TO FIRE PROTECTION EQUIPMENT SCHEDULE ON SHEET FP301 FOR SPECIFICATIONS. COORDINATE INSTALLATION WITH ARCHITECT, CONSTRUCTION MANAGER AND WORK OF OTHER TRADES IN ADVANCE OF ANY WORK.
3. 2" MAIN DRAIN TO OUTSIDE OF BUILDING AT 12" ABOVE FINISH GRADE. PROVIDE 45 DEGREE ELBOW ON OUTLET TURNED DOWN AND AWAY FROM WALL. PROVIDE WATERTIGHT SEAL AND WALL FLANGE AT WALL PENETRATION. PROVIDE SPLASHBLOCK AT GRADE.
4. 3/4" AUTOMATIC DRIP VALVE DRAIN PIPING TO OUTSIDE OF BUILDING WITH 45 DEGREE ELBOW ON OUTLET TURNED DOWN AND AWAY FROM WALL. PROVIDE WATERTIGHT SEAL AND WALL FLANGE AT WALL PENETRATION.
5. 2-1/2" DOMESTIC WATER SERVICE, SEE PLUMBING DRAWINGS.

BUILDING INSTALLATION NOTE
A SINGLE FLOOR CONTROL VALVE ASSEMBLY FOR BOTH THE 2ND AND 3RD FLOORS SHALL BE PROVIDED IN THE FIRST FLOOR RISER CLOSET, CONNECTED TO THE SYSTEM RISER AT THAT LOCATION. FIRE PROTECTION SPRINKLER PIPING FOR THE COMBINED 2ND AND 3RD FLOORS SHALL BE EXTENDED FROM THE FLOOR CONTROL ASSEMBLY ABOVE THE 1ST FLOOR CEILING AND RISE IN THE WALL STRUCTURE TO ABOVE THE 2ND FLOOR CEILING WITH DROPS TO PENDENT AND SIDEWALL HEADS ON THE 2ND FLOOR LEVEL AND IN-WALL RISERS TO SIDEWALL HEADS ON THE 3RD FLOOR LEVEL. NO FIRE PROTECTION SPRINKLER PIPING SHALL BE INSTALLED IN EXTERIOR WALLS, BREEZEWAY WALLS, AND ABOVE THE 3RD FLOOR CEILING.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
DEVELOPMENT. OWNERSHIP. STEWARDSHIP.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FIRE PROTECTION ENLARGED PLAN & DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

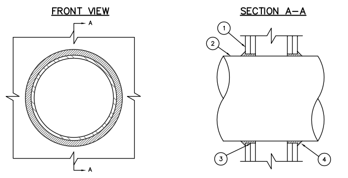
05/01/2025
23446
FP201
CD PROGRESS SET

© 2024 MOODY NOLAN INC.

UL/CUL SYSTEM NO. WL1085

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..



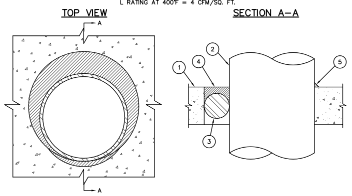
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMTER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 13-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

UL/CUL SYSTEM NO. CAJ1154

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



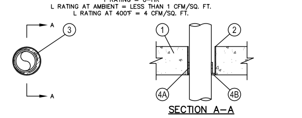
1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

UL/CUL SYSTEM NO. CAJ2569

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2-HR
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



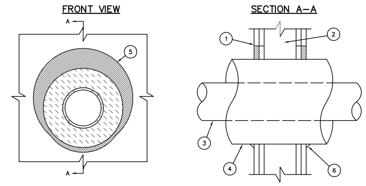
1. FLOOR OR WALL ASSEMBLY —MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE FLOOR OR WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN. (152 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. STEEL SLEEVE —(OPTIONAL) —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. THROUGH PENETRANTS —ONE NONMETALLIC PIPE TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM IS DEPENDENT UPON THE MAX DIAM AND TYPE OF PENETRANT USED AS TABULATED IN ITEM 4A. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. POLYVINYL CHLORIDE (PVC) PIPE —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE —NOM 4 IN. DIAM (OR SMALLER) SDR13.5 CPVC FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   C. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE ABS FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
4. FIRESTOP SYSTEM —THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* — WRAP STRIP —ONE LAYER OF INTUMESCENT WRAP STRIP IS CONTINUOUSLY WRAPPED AROUND THE PIPE WITH ENDS BUTTED AND HELD IN PLACE WITH INTEGRATED TAPE. WRAP STRIP INSTALLED RECESSED 1/4 IN. (6 MM) FROM BOTTOM SURFACE OF FLOOR OR BOTH WALL SURFACES TO ACCOMMODATE FILL MATERIAL. SIZE OF WRAP STRIP FOR A GIVEN SIZE PENETRANT IS SHOWN IN THE TABLE BELOW.
   B. FILL, VOID OR CAVITY MATERIAL* —MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

Product Designation	Nom Pipe Size Diam In. (mm)	Max Opening Diam In. (mm)	Annular Space Min In. (mm)	Annular Space Max In. (mm)	Nom Wrap Strip Thick In. (mm)	Nom Wrap Strip Width In. (mm)
CP648-S-1.5" US	1-1/2 (38)	3 (76)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-2" US	2 (51)	3-1/2 (89)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-3" US	3 (76)	4 (102)	3/16 (5)	9/16 (14)	3/16 (5)	1-3/4 (44)
CP648-S-4" US	4 (102)	6 (152)	3/8 (10)	1-1/8 (28)	3/8 (10)	1-3/4 (44)

UL/CUL SYSTEM NO. WL5029

INSULATED METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR, AND 2-HR
T RATING = 1/2-HR., 3/4 HR., 1-HR., AND 1-3/4 HR. (SEE U.L. FIRE RESISTANCE DIRECTORY)
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.



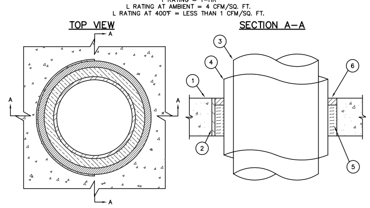
1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. (NOT SHOWN). WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2-1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MAXIMUM 2" THICK GLASS-FIBER PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1-7/8".

UL/CUL SYSTEM NO. CAJ5091

INSULATED METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

F RATING = 2-HR
T RATING = 1-HR
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.



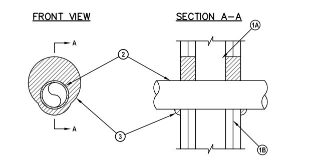
1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 20".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 2-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

UL/CUL SYSTEM NO. W-L-2377

PLASTIC PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
L – RATING AT AMBIENT – LESS THAT 1 CFM/SQ FT
L – RATING AT 400°F – 4 CFM/SQ FT



1. WALL ASSEMBLY – THE 1 AND 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD* – THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 3 IN. THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT – ONE NONMETALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO A MAX 1-1/4 IN. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) FLOWGUARD GOLD® SDR11 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) BLAZEMASTER® SDR13.5 CPVC PIPE OR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
3. FILL, VOID OR CAVITY MATERIAL* – SEALANT – MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY. AT POINT CONTACT LOCATION, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/PENETRANT INTERFACE ON BOTH SURFACES OF THE WALL.

F.P. EQUIPMENT SCHEDULE

1. FINAL DECISION ON THE FINISH AND/OR COLOR AND STYLE OF SPRINKLER HEADS TO BE DETERMINED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE DURING THE REVIEW PROCESS.
2. THE ARCHITECT RESERVES THE RIGHT TO RELOCATE OR ADD SPRINKLER HEADS TO THE SPRINKLER CONTRACTOR'S LAYOUT.

FIRE PROTECTION SPRINKLER HEADS

A. CONCEALED PENDENT HEADS (APARTMENTS): SIMILAR TO VIKING MODEL VK498 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.8 "K" FACTOR, AND LOW-PROFILE REMOVABLE COVER PLATE WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. UNLESS NOTED OTHERWISE, IN AREAS WITH DRYWALL, PANEL BOARD OR OTHER DROP CEILING STRUCTURE WITH CONCEALED SUPPLY PIPING. HEADS LOCATED IN WOOD PANELS TO BE PROVIDED WITH MANUFACTURER APPLIED FINISH COLOR FOR COVER PLATE AS APPROVED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

B. RECESSED PENDENT HEADS (APARTMENTS): SIMILAR TO VIKING MODEL VK472 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.8 "K" FACTOR AND MODEL E-2 ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON AND HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR, WITH HORIZONTAL DEFLECTOR. DRY PIPE BARREL HEADS (IF REQUIRED) TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. PENDENT AND SIDEWALL HEADS FOR USE IN AREAS WITH CONCEALING "FINISH" STRUCTURE WITH CONCEALED SUPPLY PIPING; DRY BARREL HEADS FOR USE IN AREAS SUBJECT TO FREEZING WITH ADJACENT CONDITIONED SPACE FOR INSTALLATION OF WET SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

C. UPRIGHT HEADS (APARTMENTS): SIMILAR TO VIKING MODEL VK467 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 4.9 "K" FACTOR AND MANUFACTURER APPLIED FINISH. SIDEWALL HEAD (IF REQUIRED) TO BE SIMILAR, WITH VERTICAL OR HORIZONTAL DEFLECTOR. HEADS TO BE LISTED "QUICK RESPONSE" TYPE. FOR USE IN STORAGE, MECHANICAL AND IN AREAS WITHOUT CONCEALING "FINISH" STRUCTURE WITH EXPOSED SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

D. CONCEALED PENDENT HEADS (CLUBHOUSE): SIMILAR TO VIKING MODEL VK4621 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR, AND LOW-PROFILE REMOVABLE COVER PLATE WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. UNLESS NOTED OTHERWISE, IN AREAS WITH DRYWALL, PANEL BOARD OR OTHER DROP CEILING STRUCTURE WITH CONCEALED SUPPLY PIPING. HEADS LOCATED IN WOOD PANELS TO BE PROVIDED WITH MANUFACTURER APPLIED FINISH COLOR FOR COVER PLATE AS APPROVED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

E. RECESSED PENDENT HEADS (CLUBHOUSE): SIMILAR TO VIKING MODEL VK3021 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR AND MODEL E-2 ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON AND HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. SIDEWALL HEADS (IF REQUIRED) TO BE SIMILAR, WITH HORIZONTAL DEFLECTOR. DRY PIPE BARREL HEADS (IF REQUIRED) TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. PENDENT AND SIDEWALL HEADS FOR USE IN AREAS WITH CONCEALING "FINISH" STRUCTURE WITH CONCEALED SUPPLY PIPING; DRY BARREL HEADS FOR USE IN AREAS SUBJECT TO FREEZING WITH ADJACENT CONDITIONED SPACE FOR INSTALLATION OF WET SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

F. UPRIGHT HEADS (CLUBHOUSE): SIMILAR TO VIKING MODEL VK300 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR AND MANUFACTURER APPLIED FINISH. SIDEWALL HEAD (IF REQUIRED) TO BE SIMILAR, WITH VERTICAL OR HORIZONTAL DEFLECTOR. HEADS TO BE LISTED "QUICK RESPONSE" TYPE. FOR USE IN STORAGE, MECHANICAL AND IN AREAS WITHOUT CONCEALING "FINISH" STRUCTURE WITH EXPOSED SUPPLY PIPING. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

G. EXTENDED COVERAGE SIDEWALL HEADS: SPRINKLER HEAD TO BE SIMILAR TO VIKING MODEL VK305 WITH STANDARD ORIFICE, 1/2" NPT INLET, OUTLET SPRAY DEFLECTOR, 5.6 "K" FACTOR AND MANUFACTURER APPLIED FINISH, MODEL E-2 ADJUSTABLE TWO-PIECE ESCUTCHEON. ESCUTCHEON AND HEAD TO BE FURNISHED WITH MANUFACTURER APPLIED FINISH. PROVIDE DEFLECTOR HORIZONTAL AND/OR VERTICAL DEFLECTOR AS REQUIRED BY AREA OF COVERAGE. HEAD TO BE LISTED "QUICK RESPONSE" TYPE. DRY PIPE BARREL HEADS (IF REQUIRED) TO BE SIMILAR, WITH 1" INLET, ADJUSTABLE DRY BARREL AND COMPRESSED CENTER STRUT ACTUATOR. COORDINATE FINISH OF SPRINKLER HEAD WITH ARCHITECT/OWNER'S REPRESENTATIVE IN ADVANCE OF INSTALLATION.

H. SPRINKLER HEAD GUARD: PROVIDE A HARD-WIRE BRIGHT ZINC VIKING SPRINKLER GUARD MODEL D-1 CAGE DESIGNED TO ENCASE THE SPRINKLER AND PROTECT IT IN AREAS WHERE IT MAY BE SUBJECT TO POSSIBLE MECHANICAL DAMAGE.

NOTES:
1. EQUAL MANUFACTURER'S: RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION
2. FOR BIDDING PURPOSE THIS CONTRACTOR SHALL PROVIDE CONCEALED SPRINKLER HEADS IN ALL DRYWALL CEILINGS AND/OR SPECIAL CONSTRUCTION CEILINGS SUCH AS PANEL CEILINGS, METAL CEILINGS DECORATIVE PANELS AND OTHER PRE-MANUFACTURED CEILING PANELS.
3. FOR BIDDING PURPOSE THIS CONTRACTOR SHALL PROVIDE RECESSED SPRINKLER HEADS IN ALL ACOUSTICAL TILE CEILINGS ALL FINISHES AND OR COLORS OF SPRINKLER HEADS SHALL BE DETERMINED BY THE ARCHITECT USING THE STANDARD AVAILABLE COLORS OR FINISHES AVAILABLE FROM THE MANUFACTURER.
4. THE ARCHITECT AND OWNER'S REPRESENTATIVE RESERVES THE RIGHT OF REVISING THE FINISH AND/OR THE STYLE OR TYPE OF SPRINKLER HEADS DURING THE REVIEW PROCESS.
5. LOCATE SPRINKLERS SO THEY ARE COORDINATED WITH INTERIOR DESIGN TO MINIMIZE COVERAGE OBSTRUCTIONS.

FDC-1: FIRE DEPT. INLET CONNECTION (APARTMENT BLDG'S)

A. SIMILAR TO POTTER ROEMER MODEL 5016; 2-1/2" FLUSH WALL MOUNTED SINGLE INLET FIRE DEPARTMENT CONNECTION. POLISHED CHROME 8" SQUARE BRASS IDENTIFICATION BASE PLATE, 2-1/2" FEMALE N.S.T. THREADS, PIN LUG HOSE THREAD SWIVEL, PIN LUG PLUG & CHAIN. COORDINATE EXACT INLET THREAD AND LOCATION REQUIREMENTS WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF ORDERING PARTS. 1
A. EQUAL MANUFACTURER'S: RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION

FDC-2: FIRE DEPT. INLET CONNECTION (CLUBHOUSE)

A. SIMILAR TO POTTER ROEMER NO. 5795 SERIES WALL MOUNTED FIRE DEPARTMENT STORZ CONNECTION. PROVIDE WITH HARD COAT ANODIZED ALUMINUM W/STAINLESS STEEL INTERNAL SCREEN, ALUMINUM BLIND COVER/CAP WITH CHAIN, POLISHED BRASS ROUND IDENTIFICATION PLATE, AND 30 DEGREE ANGLED CONNECTION. COORDINATE INLET THREAD AND LOCATION REQUIREMENTS WITH THE LOCAL FIRE CODE AUTHORITY IN ADVANCE OF ORDERING PARTS.
A. EQUAL MANUFACTURER'S: RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION

ELECTRIC ALARM BELL

A. SIMILAR TO POTTER ROEMER NO. 6230 10" ROUND BELL WITH 120V/1PH ELECTRIC DRIVE MOTOR AND STEEL CONSTRUCTION WITH RED ENAMEL FINISH.
B. EQUAL MANUFACTURER'S: RELIABLE, VIKING, AUTOMATIC, CENTRAL, GUARDIAN, VICTAULIC, POTTER-ROEMER OR TYCO MAY BE PROVIDED AT THE CONTRACTOR'S OPTION

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—W—	WATER SERVICE LINE		CONCENTRIC REDUCER
—FP—	FIRE PROTECTION LINE		ECCENTRIC REDUCER
—D—	DRAIN LINE		TEE WITH NIPPLE & CAP
—DPS—	DRY PIPE SYSTEM		PLUGGED TEE
—FDC—	FIRE DEPARTMENT CONNECTION LINE		Y-TYPE STRAINER
—FPTC—	FIRE PUMP TEST CONNECTION LINE		BALL VALVE
	PENDANT TYPE SPRINKLER HEAD		APPROVED TYPE DRAIN VALVE
	UPRIGHT TYPE SPRINKLER HEAD		GATE VALVE (FLANGED BODY)
	CONCEALED SPRINKLER HEAD		GATE VALVE (SCREWED BODY)
	SIDEWALL SPRINKLER HEAD		FLOOR DRAIN
	DRY SPRINKLER HEAD		CURB BOX & VALVE
	DRY SPRINKLER HEAD (SIDEWALL)		CONNECT TO EXISTING
	CAPPED LINE		PRESSURE GAUGE
	EXISTING WORK TO REMAIN		FLOW SWITCH
	EXISTING WORK TO BE REMOVED	A	ABORT
	PIPE FLANGES	M	MANUAL PULL
	PIPE UNION		

FIRE PROTECTION ABBREVIATIONS

A.	COMPRESSED AIR	F.H.C.	FIRE HOSE CABINET
AB.	ABOVE	FLR.	FLOOR
A.D.	ACCESS DOOR	F.D.	FLOOR DRAIN
ARCH.	ARCHITECT	FURN.	FURNISH
BTM.	BOTTOM	F.E. CHEM.	FIRE EXTINGUISHER CHEM.
BLDG.	BUILDING	F.H.R.	FIRE HOSE RACK
CAB.	CABINET	F.H. & V.C.	FIRE HOSE & VALVE CAB.
C.I.	CAST IRON	F.P.	FIRE PROTECTION
CLG.	CEILING	GA.	GAGE
CONC.	CONCRETE	GEN.	GENERAL
CONN.	CONNECT	MFR.	MANUFACTURER
CONTR.	CONTRACTOR	MECH.	MECHANICAL
C.W.	COLD WATER	MTD.	MOUNTED
CONT.	CONTINUATION	NOM.	NOMINAL
DTL.	DETAIL	PLBG.	PLUMBING
DIA.	DIAMETER	PRESS.	PRESSURE
DN.	DOWN	REQD.	REQUIRED
DR.	DOOR	RM.	ROOM
ELEC.	ELECTRICAL	SCHED.	SCHEDULE
EXIST.	EXISTING	SHT.	SHEET
F.	FIRE	T.S.	TAMPER SWITCH
FT. HD.	FEET OF HEAD	TYP.	TYPICAL
F.D.V.	FIRE DEPT. HOSE CONNECTION VALVE	U.N.O.	UNLESS NOTED OTHERWISE
F.E.C.	FIRE EXTINGUISHER CABINET	W/	WITH

FLOW TEST INFORMATION

FLOW TEST ID: 3688	NO. OF TEST RUN: 1		
FLOW HYDRANT 1:	1E OF SCHWARTZ RD ON REFUGEE RD		
FLOW HYDRANT 2:	1W OF SCHWARTZ RD ON REFUGEE RD		
PRESSURE HYDRANT:	2E OF SCHWARTZ RD ON REFUGEE RD		
PRESSURE HYDRANT ID:	0143A04		
DATE:	11/06/2024	PIPE SIZE:	24"
TIME:	11:35:00 AM	ELEVATION:	760'
STATIC PRESSURE:	75 PSI	HYDRANT OWNER:	COLUMBUS
RESIDUAL PRESSURE:	71 PSI	COEFFICIENT:	0.77
PITOT 1:	37 PSI	CH:	950'
PITOT 2:	14 PSI	HGL:	933'
OUTLET:	4" DIFF		
FLOW (GPM):	3870		
FLOW @ 20 PSI:	>5000		
WATER DISTRICT:	PARSONS		

THIS FLOW TEST IS FOR BIDDING PURPOSES ONLY. THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING A NEW FLOW TEST FOR THE HYDRAULIC SPRINKLER CALCULATIONS.

F.P. CONTRACT NOTE

PUBLIC WATERWORKS SYSTEMS – FLOW TEST DATA:

SOURCE WATER FLOW TEST DATA INCLUDED HEREIN HAS BEEN OBTAINED FROM THE DIVISION OF WATER AND IS DATED WITHIN THE TIME LIMITATIONS SET FORTH BY NFPA PAMPHLET 13. THIS DATA, INCLUDING ALL DISCLAIMERS, HAS THEREFORE BEEN UTILIZED TO CALCULATE THE INCOMING BUILDING FIRE PROTECTION WATER SERVICE LINE SIZE AS REFLECTED ON THESE CONTRACT DOCUMENTS AS THE BASIS OF DESIGN. AS SUCH, UNDER THIS CONTRACT AND IN ACCORDANCE WITH THE DIVISION OF WATER FLOW TEST PRESSURE FLUCTUATION DISCLAIMER, OHIO BUILDING CODE SECTION 903.3.5, AND NFPA PAMPHLET 13 SECTION 24.2.2.2 THIS CONTRACTOR SHALL ACCOUNT FOR A 15 PSIG SHIFT IN THE STATIC/RESIDUAL PRESSURE POINTS OBSERVED/RECORDED IN FLOW TEST DATA RESULTS. MOREOVER, BECAUSE THE INFORMATION CONTAINED IN THESE DATA POINTS IS DYNAMIC AND MAY CHANGE OVER TIME THE 15 PSIG ADJUSTMENT SHALL ACCOUNT FOR VARIOUS FACTORS AFFECTING THE RECORDED FLOW PRESSURE POINTS INCLUDING, BUT NOT LIMITED TO SEASONAL, TIME-OF-DAY, CHANGES IN CONSUMER DEMANDS AND/OR BUILDING USAGE CHARACTERISTICS AT THE AREA OF THE FLOW TEST WHICH RESULT IN PRESSURE FLUCTUATIONS.

FIRE PROTECTION NOTES

1. ALL FIRE PROTECTION CONTRACT WORK IS TO COMPLY WITH THE APPLICABLE NFPA STANDARDS REFERENCED IN THE BUILDING CODE AS ADMINISTERED BY THE LOCAL REVIEW/INSPECTION/APPROVAL AUTHORITIES, THE INSURANCE UNDERWRITER'S GUIDELINES, THE LOCAL FIRE PREVENTION AUTHORITY (FIRE MARSHALL'S OFFICE/FIRE DEPARTMENT), AND ANY OTHER AUTHORITIES HAVING JURISDICTION, AS CONFIRMED AND VERIFIED IN ADVANCE BY THE LICENSED F.P. CONTRACTOR.
2. THE BUILDING IS TO BE TOTALLY SPRINKLED PER NFPA PAMPHLET NO. 13 AND PROVIDED WITH STANDPIPES REQUIRED FOR COMPLETE COVERAGE/PROTECTION PER NFPA PAMPHLET NO. 14.
3. THE BUILDING SPRINKLER SYSTEM IS TO BE ZONED BY FLOORS AND AT OTHER SPECIFIC AREAS AS INDICATED ON THE DRAWINGS.
4. THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY DESIGNED AND SIZED ACCORDING TO NFPA PAMPHLET NO. 13, THE APPLICABLE BUILDING CODE AND THE INSURER'S GUIDELINES, RULES AND REGULATIONS (REQUIRED FOR APPROVAL). SPECIFIC AREAS DESIGNATED ON THE DRAWINGS SHALL MAINTAIN FLOWS AND DENSITIES AS FOLLOWS:
   A. LIGHT HAZARD OCCUPANCY = .1 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 225 SQUARE FEET PER HEAD.
   B. ORDINARY HAZARD GROUP 1 OCCUPANCY = .15 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD.
   C. ORDINARY HAZARD GROUP 2 OCCUPANCY = .2 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 1500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 130 SQUARE FEET PER HEAD.
   D. EXTRA HAZARD GROUP 1 OCCUPANCY = 0.3 GPM PER SQUARE FOOT OF FLOOR AREA WHEN ALL SPRINKLERS WITHIN THE MOST REMOTE 2500 SQUARE FEET OF FLOOR AREA ARE OPERATING. MAXIMUM SPACING OF SPRINKLER HEADS SHALL BE 100 SQUARE FEET PER HEAD.
   E. RESIDENTIAL OCCUPANCY (INCLUDES DWELLING UNITS AND ASSOCIATED CORRIDORS) = MINIMUM LISTED FLOW RATE FOR THE SPRINKLERS USED OR .1 GPM PER SQUARE FOOR OVER THE AREA THAT INCLUDES THE FOUR (4) HYDRAULICALLY MOST DEMANDING SPRINKLERS; WHICHEVER IS GREATER. SPACING SHALL NOT EXCEED THAT LISTED FOR THE SPRINKLERS USED.
   F. ADD A TOTAL ALLOWANCE OF 100 GPM FOR SIMULTANEOUS USE OF INSIDE & OUTSIDE HOSE STREAMS AT THE APPROPRIATE CONNECTION POINT(S) TO THE SUPPLY PIPING SYSTEM FOR LIGHT HAZARD OCCUPANCY; 250 GPM FOR ORDINARY HAZARD; 500 GPM FOR EXTRA HAZARD.
5. THE SPRINKLER SYSTEMS SHALL BE SUPPLIED FROM THE BUILDING STANDPIPES AS SHOWN ON THE DRAWINGS. THE STANDPIPES SHALL BE SIZED PER NFPA PAMPHLET NO. 14, AND THE APPLICABLE BUILDING CODE TO PROVIDE 500 GPM FOR THE FIRST STANDPIPE, AND 250 GPM PER EACH ADDITIONAL STANDPIPE, TO A MAXIMUM 1250 GPM. TOTAL DEMAND FOR THE FIRE PROTECTION SYSTEM IS TO BE CALCULATED BASED ON EITHER THE STANDPIPE OR SPRINKLER (INCLUDING HOSE STREAMS) FLOW REQUIREMENT, WHICHEVER IS GREATER.
6. THE FIRE PROTECTION CONTRACTOR SHALL SIZE ALL FIRE PROTECITON SYSTEM PIPING, WITH THE EXCEPTION OF PIPING SIZES INDICATED ON THESE PLANS AT SPECIFIC LOCATIONS.
7. FIRE PROTECTION CONTR. SHALL PROVIDE ALL ADDITIONAL PIPING, EQUIP. AND ACCESSORIES WHETHER SHOWN ON DWG'S. OR NOT, WHICH IS REQ'D TO PROVIDE COMPLETE STANDPIPE, SPRINKLER & OTHER FIRE PROTECTION SYSTEMS FOR THE BUILDING.
8. FIRE PROTECTION CONTR. TO LOCATE AND INSTALL ALL SPRINKLER HEADS IN LAY-IN CEILINGS PER DETAILS INCLUDED WITH THESE DRAWINGS.
9. COORD. ALL SPRINKLER DROPS FOR HEAD LOCATION WITH CLG. GRIDS, STRUCTURE AND WORK IN OTHER CONTRACTS IN SAME AREA. VERIFY LOCATION OF ALL ITEMS/ELEMENTS FROM ARCHITECTURAL & OTHER CONTRACTS PLANS INCLUDED W/COMPLETE CONSTRUCTION DOCUMENTS, & COORD. INSTALLATION W/ APPROPRIATE CONTRACTORS.
10. UNLESS SPECIFICALLY INDICATED OTHERWISE, DRAINS ASSOCIATED WITH WORK/EQUIPMENT INCLUDED IN THE FIRE PROTECTION CONTRACT ARE TO BE EXTENDED FULL SIZE TO LOCATIONS SUBJECT TO APPROVAL DURING REVIEW OF REQUIRED LAYOUT PLANS. APPROPRIATE DRAIN DISCHARGE POINTS ARE AS FOLLOWS, LISTED IN ORDER OF PREFERENCE:
    A. BUILDING EXTERIOR, WITH CHROME FINISHED 45 DEGREE OUTLET & WALL FLANGE, AND SPLASHBLOCK AT GRADE/SURFACE IN RESTRICTED ACCESS AREAS (DISCHARGE NOT PERMITTED IN PEDESTRIAN OR PUBLIC ACCESS AREAS, INCLUDING ADJACENT SPACES/AREAS THAT COULD RECEIVE OVERSPRAY/OVERFLOW FROM SUCH DRAINS)
    B. BUILDING INTERIOR, TO JANITORS RECEPTOR OR SERVICE SINK IN RESTRICTED ACCESS AREAS, WITH 3" AIR GAP ABOVE FIXTURE FLOOD RIM AT DISCH. POINT
    C. BUILDING INTERIOR, TO FLOOR SINK, HUB DRAIN OR FLOOR DRAIN IN RESTRICTED ACCESS AREAS, WITH 3" AIR GAP ABOVE FLOOD RIM AT ANY DRAIN INLET. DISCHARGE NOT PERMITTED IN PEDESTRIAN OR PUBLIC ACCESS AREAS, INCLUDING ADJACENT SPACES/AREAS THAT COULD RECEIVE OVERSPRAY/OVERFLOW FROM SUCH DRAINS.
    D. IF DRIP PANS ARE REQUIRED AT FIRE PROTECTIOIN INSTALLATIONS, AND DRAIN DISCHARGE POINTS INDICATED ABOVE ARE NOT AVAILABLE/ACCESSIBLE, DRAIN(S) FROM DRIP PANS MAY EXTEND TO DISCHARGE 3" ABOVE FLOOR IN NON-CRITICAL RESTRICTED ACCESS AREAS OUTSIDE THE ENCLOSED AREA AS A FIRST PRIORITY, OR INSIDE THE ENCLOSURE AS SECOND PRIORITY
11. ALL DRAINS THAT DISCHARGE TO GRADE ARE TO BE FURNISHED WITH A SPLASH-BLOCK OF APPROPRIATE SIZE AND CONFIGURATION TO RECEIVE ALL FLOW FROM OUTLET(S), UNLESS DIRECTED OTHERWISE. DRAINS THAT DISCHARGE TO PAVED SURFACES DO NOT REQUIRE SPLASHBLOCKS.
12. FIRE PROTECTION CONTR. TO PROVIDE ALL ADDITIONAL STEEL, HANGER MATERIALS, RODS AND CLAMPS AS REQ'D. FOR COORD. AND APPROVED INSTALLATION.
13. PROVIDE INSPECTOR'S TEST CONNECTION ASSEMBLIES AS SHOWN ON DRAWINGS, AND ANY ADDITIONAL TEST ASSEMBLIES AS REQUIRED FY INSPECTION/APPROVAL AUTHORITIES. ASSEMBLIES TO COMPLY WITH THE REQUIREMENTS OF NFPA PAMPHLET NO. 13, AND THE FIRE PROTECTION AUTHORITY, INCLUDING MATERIALS AND CONFIGURATION. COORDINATE INSTALLATION WITH STRUCTURE AND WORK OF OTHER TRADES. CONCEAL ASSEMBLIES WHEN STRUCTURE IS PROVIDED TO DO SO, AND COORDINATE FOR APPROVED INSTALLATION, INCLUDING IDENTIFICATION ELEMENTS (SIGNAGE, TAG, ETC.) IN NORMALLY VISIBLE LOCATION.
14. FIRE PROTECTION CONTRACTOR TO PROVIDE SPRINKLER COVERAGE AT ALL SHAFTS AS REQUIRED.
15. PROVIDE PRESS. GAUGE WITH ISOLATION BALL VALVE AT TOP OF ALL STANDPIPE RISERS.
16. FIRE PROTECTION CONTRACTOR TO PROVIDE ADDITIONAL SPRINKLER HEADS BELOW DUCTS OR EQUIPMENT IN EXCESS OF 4 FEET WIDE, OR WHERE MULTIPLE DUCTS AND/OR EQUIPMENT INSTALLATIONS OBSTRUCT AN AREA IN EXCESS OF 4 FEET WIDE IN MECHANICAL ROOMS OR OTHER AREAS WITH EXPOSED STRUCTURE.
17. NO FIRE PROTECTION PIPING IS TO BE RUN THRU OR ABOVE ELECTRICAL SWITCHGEAR ROOMS, ELECTRICAL UTILITY CLOSETS/ROOMS, ELEVATOR SHAFTS AND/OR MACHINE RM'S., AND TELE./COMM. CLOSETS/RM'S., EXCEPT FOR PIPING SUPPLYING PROTECTION FOR THAT SPECIFIC AREA. SPRINKLERS FOR THESE AREAS ARE TO BE HIGH TEMPERATURE TYPE ON DEAD END BRANCHES. LOCATION OF THESE NEW SPACES TO BE CONFIRMED FROM ARCHITECTURAL DOCUMENTATION PRIOR TO LAYOUT OF F.P. WORK. WHEN PIPING IS PERMITTED WITHIN THESE AREAS, & INSTALLATION AB. ELEC. EQUIP. IS UNAVOIDABLE, A DRIP PAN SHALL BE PROVIDED A MAXIMUM OF 12" BELOW ALL PIPING, EXTENDING TO A POINT 12" BEYOND THE ENTIRE EQUIP. PERIMETER OUTLINE BELOW. WIDTH OF DROP PAN TO BE ADEQUATE TO CONTAIN ANY POTENTIAL LEAKAGE FROM OVERHEAD PIPING AND SPRINKLER HEADS, WITHOUT INTERFERING WITH REQUIRED PROTECTION/COVERAGE. DRIP PANS TO BE FABRICATED FROM MEDIUM GAUGE GALVANIZED SHEET METAL WITH A MIN. 1" HIGH LIP AT ENTIRE PERIMETER, SEALED WATERTIGHT. SLOPE TO 1" DIA. OUTLET(S), WITH FULL SIZE DRAIN PIPING EXTENDED TO APPROVED DRAIN POINT(S) AS SPECIFIED HEREIN. DRIP PANS MAY BE SUPPORTED FROM BUILDING STRUCTURE, OR FROM ASSOCIATED PIPING SUPPORTS, PROVIDED ADEQUATE ABILITY TO DO SO IS CONFIRMED BY THE F.P. CONTRACTOR. SUPPORT FROM WORK PROVIDED BY OTHER TRADES IS NOT PERMITTED. EXACT LAYOUT OF NEW EQUIPMENT/ITEMS AS CONFIRMED WITH THE INSTALLING CONTRACTOR IN ADVANCE OF F.P. INSTALLATION.
18. FIRE PROTECTION PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS, INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN. 30" WIDE, UNDER ANY CIRCUMSTANCES. NEW ITEM LOCATIONS TO BE VERIFIED FROM ELECTRICAL DRAWINGS, AND INSTALLATION COORDINATED WITH ELECTRICAL CONTRACTOR IN ADVANCE OF F.P. INSTALLATION.
19. ALL VALVES CAPABLE OF INTERRUPTING FIRE PROTECTION SYSTEM FLOWS SHALL BE PROVIDED WITH A TAMPER SWITCH.
20. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL FIRE PROTECTION RELATED PENETRATIONS OF FIRE, SMOKE, & ANY OTHER RATED FLOORS, WALLS, PARTITIONS & OTHER STRUCTURES. REFER TO ARCHITECTURAL FLOOR PLANS FOR LOCATIONS OF ALL RATED STRUCTURES.
21. WHERE FIRE DEPARTMENT HOSE CONNECTION VALVES ARE INDICATED ON PLANS, WHETHER EXPOSED OR IN CABINET/STRUCTURE, COORDINATE EXACT LOCATION AND ORIENTATION OF VALVE, OUTLET AND OPERATOR HANDLE WITH STRUCTURE AND WORK OF OTHER TRADES TO ALLOW PROPER ACCESS AND OPERATION, AND TO MINIMIZE INTRUSION TO EGRESS ELEMENTS. FINAL INSTALLATION TO BE CONFIRMED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE. PLAN INDICATION OF FIRE DEPT. VALVES IS SYMBOLIC ONLY FOR GEN. LOCATION, AND IS NOT INTENDED TO SPECIFY ORIENTATION OF ELEMENTS. NOM. MOUNTING HEIGHT IS 48" FROM TOP OF FLOOR TO CENTERLINE OF VALVE OUTLET.
22. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR REVIEWING ARCHITECTURAL PROJECT DOCUMENTATION FOR ITEMS AFFECTING FIRE PROTECTION WORK, INCLUDING SPECIFIC DIRECTIONS AND ITEMS OF A GENERAL NATURE, WHICH MAY NOT BE REFERRED TO BY THE F.P. DOCUMENTATION. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, SPRINKLER REQUIREMENTS TO MAINTAIN RATED SEPARATION STRUCTURES (WALLS, WINDOWS, GLASS PARTITIONS/DOORS, ETC.), OR AT STRUCTURAL FEATURES SUCH AS DRAFSTOPS, SOFFITS, SKYLIGHTS, PARTIAL HEIGHT PARTITIONS/WALLS, & OTHER ELEMENTS. THE ARCH. DOCUMENTATION MAY ALSO INCLUDE LOCATION/DIMENSION INFORMATION FOR SPECIFIC ITEMS SUCH AS STANDPIPES IN STAIR ENCLOSURES, OR F.P. EQUIPMENT CABINETS IN/AT WALLS OR OTHER STRUCTURES. WHERE THERE IS A DISCREPANCY IN LOCATIONS INDICATED BETWEEN THE TWO SETS OF DOCUMENTATION, THE LOCATION INDICATED BY THE ARCHITECTURAL SHALL TAKE PRECEDENT. ARCHITECTURAL REVIEW SHALL INCLUDE COMPLETE DOCUMENTATION, INCLUDING SPECIFICATIONS AND DRAWING ELEVATIONS.
23. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE FIRE PROTECTION CONTRACT NOT SPECIFICALLY INTENDED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.
24. A NEW CURRENT CONDITIONS SITE WATER SERVICE FLOW TEST SHALL BE PERFORMED & THE DOCUMENTED RESULTS USED IN PREPARATION OF THE REQUIRED HYDRAULIC DESIGN CALCULATIONS FOR THE BUILDING FP SYSTEMS. THE FLOW TEST SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE DIVISION OF WATER AS CONFIRMED BY THE FP CONTRACTOR, INCLUDING WHETHER THE TEST IS TO BE PERFORMED BY THE FP CONTRACTOR, THE DIVISION OF WATER, THE FIRE DEPARTMENT, OR APPROVED OTHERS. ALL COSTS ASSOCIATED WITH THE FLOW TEST SHALL BE INCLUDED IN THE FP CONTRACT.

THIS DRAWING IS NOT BEING SUBMITTED FOR PLAN APPROVAL PURPOSES

THIS PLAN IS PREPARED TO ASSIST FIRE PROTECTION (SUB)CONTRACTORS IN SUBMITTING A BID. SUCCESSFUL LICENSED FIRE PROTECTION (SUB)CONTRACTOR SHALL PREPARE DETAILED CONSTRUCTION DRAWINGS, PERFORM DETAILED HYDRAULIC FLOW CALCULATIONS, PAY FOR PLAN APPROVAL FEES, OBTAIN PERMITS, AND SUBMIT DOCUMENTS TO AUTHORITY(IES) HAVING JURISDICTION FOR REVIEW.

FP301-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
FIRE PROTECTION
NOTES, SCHEDULES & DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

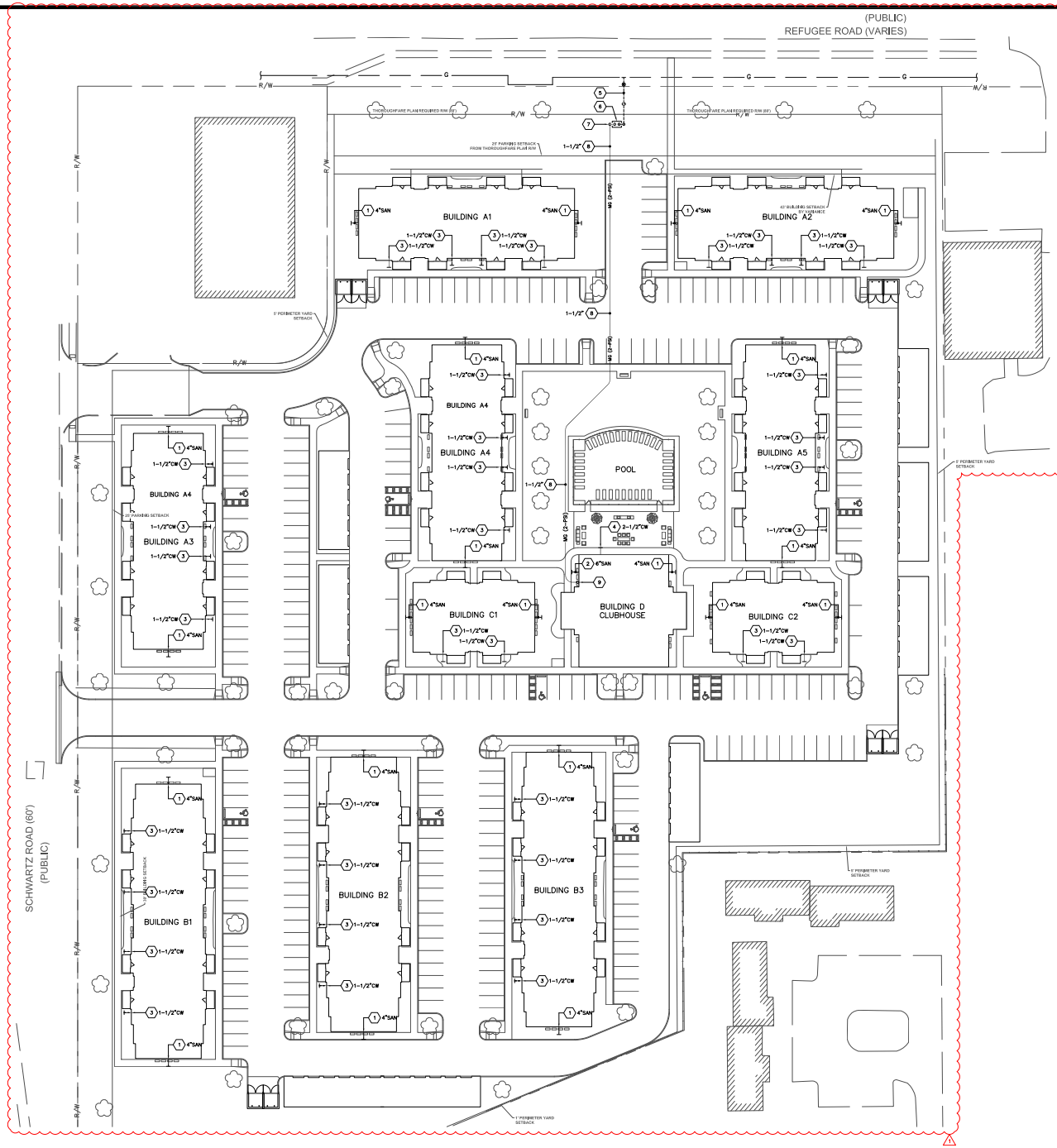
05/01/2025

23446

FP301

CD PROGRESS SET

© 2024 MOODY NOLAN INC.



PLUMBING SITE PLAN
SCALE: 1"=30'-0"

CODED NOTES

1. 4" BUILDING DRAIN TO 4' EXTERIOR CLEANOUT AT 30' BEYOND PERIMETER OF BUILDING FOUNDATION BY PLUMBING CONTRACTOR. 4" EXTERIOR CLEANOUT AND 6" BUILDING SEWER FROM CLEANOUT TO 5'-0" BEYOND BUILDING FOUNDATION BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND INVERT OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. REFER TO BUILDING PLUMBING PLANS FOR INVERT ELEVATIONS.
2. 6" BUILDING DRAIN TO 4" EXTERIOR CLEANOUT AT 30' BEYOND PERIMETER OF BUILDING FOUNDATION BY PLUMBING CONTRACTOR. 4" EXTERIOR CLEANOUT AND 6" BUILDING SEWER FROM CLEANOUT TO 5'-0" BEYOND BUILDING FOUNDATION BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND INVERT OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. REFER TO BUILDING D PLUMBING SANITARY PLANS FOR INVERT ELEVATION.
3. 1-1/2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING FOUNDATION BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 1-1/2" DWS INTO BUILDING. REFER TO BUILDING PLUMBING PLANS FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
4. 2-1/2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING FOUNDATION BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 2-1/2" DWS INTO BUILDING. REFER TO BUILDING D PLUMBING SUPPLY PLANS FOR CONTINUATION. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
5. NATURAL GAS CUSTOMER SERVICE LINE PROVIDED BY COLUMBIA GAS OF OHIO.
6. PROPOSED LOCATION OF GAS METER/REGULATOR ASSEMBLY. GAS METER/REGULATOR ASSEMBLY SHALL BE PROVIDED BY COLUMBIA GAS OF OHIO. COORDINATE EXACT LOCATION AND INSTALLATION WITH COLUMBIA GAS OF OHIO. MAKE NECESSARY ADJUSTMENTS IF LOCATION CHANGES. PLUMBING CONTRACTOR TO CONNECT TO THE GAS METER/REGULATOR OUTLET AND PROVIDE HOUSE GAS PIPING TO ALL GAS APPLIANCES. 2-PSI HOUSE DELIVERY PRESSURE AT 434 CFH LOAD CAPACITY.
7. 1-1/2" MEDIUM PRESSURE GAS (2-PSI) FROM METER OUTLET MANIFOLD TO BELOW GRADE. PROVIDE ANODELESS RISER TO TRANSITION FROM STEEL PIPE ABOVE GRADE TO PLASTIC PIPE BELOW GRADE. SEE GAS SERVICE PIPING DIAGRAM ON SHEET P402 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
8. APPROXIMATE PROPOSED ROUTING OF UNDERGROUND PLASTIC MEDIUM PRESSURE (2-PSI) GAS PIPING FROM METER TO BUILDING D. INSTALL PIPING AT A MINIMUM 24" BELOW GRADE. PROVIDE YELLOW INSULATED COPPER TRACER WIRE ADJACENT TO UNDERGROUND PLASTIC PIPE. TRACER WIRE SHALL RUN PARALLEL TO PIPING AND EXTEND THROUGHOUT ENTIRE LENGTH OF UNDERGROUND RUN AND SHALL TERMINATE ABOVE GROUND AT EACH END OF THE PLASTIC PIPING. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 18 AWG AND THE INSULATION TYPE SHALL BE SUITABLE FOR DIRECT BURIAL.
9. 1-1/2" MEDIUM PRESSURE GAS (2-PSI) FROM FROM BELOW GRADE TO ABOVE GRADE OUTSIDE OF BUILDING D. PROVIDE ANODELESS RISER TO TRANSITION FROM PLASTIC PIPE BELOW GRADE TO STEEL PIPE ABOVE GRADE. SEE BUILDING D PLUMBING SUPPLY PLANS ON SHEET P107-D FOR CONTINUATION. SEE GAS SERVICE PIPING DIAGRAM ON SHEET P402 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.

GENERAL NOTES

A. COORDINATE ALL SITE WORK WITH NEW AND EXISTING UTILITIES, SITE CONDITIONS AND OTHER TRADES.

SITE UTILITY NOTES

1. ALL PIPING SHOWN ON THIS DRAWING IS BELOW GRADE, UNLESS INDICATED OTHERWISE.
2. REFER TO CIVIL ENGINEERING, ARCHITECTURAL, LANDSCAPING AND OTHER DOCUMENTATION (AS APPLICABLE) INCLUDED WITH PROJECT CONSTRUCTION PACKAGE FOR CONFIRMATION OF ITEMS/CONDITIONS INDICATED, AND ADDITIONAL WORK IN THESE AREAS UNDER SEPARATE CONTRACT THAT IMPACTS/INTERFACES WITH WORK IN THIS CONTRACT. COORDINATE ALL INFORMATION PROVIDED AS REQUIRED FOR PROPER INSTALLATION/OPERATION OF ITEMS/ELEMENTS.
3. NOTE THAT INFORMATION PROVIDED REGARDING EXISTING ITEMS/ ELEMENTS IS FROM FIELD OBSERVATION AND EXISTING DOCUMENTATION AVAILABLE FOR THE AREAS INDICATED. ACTUAL CONDITIONS, SIZES, LOCATIONS, ETC. TO BE FIELD VERIFIED BY THIS CONTRACTOR IN ADVANCE OF WORK.
4. INSTALLATION OF UNDERGROUND GAS SERVICE AND APPURTENANCES TO COMPLY WITH THE REQUIREMENTS AND GUIDELINES OF THE GAS COMPANY/AUTHORITY IN RESPECT TO MATERIALS AND METHODS, CONFIRMED IN ADVANCE OF WORK.
5. COORDINATE INSTALLATION OF ALL ITEMS/WORK WITH SITE CONDITIONS (NEW AND EXISTING) AND WORK OF OTHER TRADES, BOTH IN AND AT GRADE. EXISTING SITE CONDITIONS TO BE CONFIRMED IN THE FIELD (WHETHER INDICATED ON PLANS OR NOT).
6. PRIOR TO START OF WORK, THIS CONTRACTOR SHALL CONTACT THE UNDERGROUND UTILITY INFORMATION SERVICE AT 800-362-2764 TO ARRANGE FOR CONFIRMATION OF EXISTING UNDERGROUND ELEMENTS (WHETHER INDICATED ON PLANS OR NOT).
7. WORK IMPACTING SPECIFIC UTILITIES TO BE COORDINATED/SCHEDULED WITH THE APPROPRIATE AUTHORITIES AND THE OWNER IN ADVANCE. INTERRUPTION OF OR IMPAIRMENT TO SERVICE (IF REQUIRED) TO BE KEPT TO A MINIMUM.
8. UNLESS INDICATED OTHERWISE ON PLAN OR BY THE LOCAL AUTHORITIES (CONFIRMED IN ADVANCE) MAINTAIN MINIMUM COVER FOR UNDERGROUND SERVICES AS FOLLOWS:
   A. GAS SERVICE – 24" MINIMUM
9. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER REMOVAL AND REPAIR/REPLACEMENT OF ANY EXISTING FINISH SURFACES AND/OR STRUCTURES AS REQUIRED TO EXECUTE INSTALLATION OF NEW WORK AND ALL ASSOCIATED ELEMENTS. THIS INCLUDES ELEMENTS THAT MAY NOT BE INDICATED ON PLANS WHICH SHALL BE IDENTIFIED BY FIELD VERIFICATION. REPAIR/REPLACEMENT OF SURFACES AND/OR STRUCTURES TO BE TO ORIGINAL CONDITION, AND MATCHING ADJACENT SURFACES AND/OR STRUCTURES IN TYPE, KIND AND FINISH. SPECIFICS FOR SEEDING, RE-SODDING OR PLANTING TO BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE. SURFACE REPAIR/REPLACEMENT IS NOT APPLICABLE IF SUCH WORK IS BEING PROVIDED UNDER SEPARATE CONTRACT AS PART OF THIS PROJECT.
10. PROVIDE PROTECTIVE BOLLARDS AT ALL WALL OR GRADE MOUNTED ELEMENTS IN OR ADJACENT TO AREAS WITH VEHICLE ACCESS, INCLUDING TRACTORS, FORK LIFTS, TOW MOTORS, ETC.). ELEMENTS REQUIRING PROTECTION INCLUDE FIRE DEPARTMENT INLET CONNECTIONS, POST INDICATOR VALVES, HYDRANTS, FREE STANDING HOSE CONNECTIONS, METERS, REGULATORS, TEST HEADERS, GAS METER/REGULATORS ETC. BOLLARDS TO BE PROVIDED ON ALL SIDES (MAX. OF FOUR) WITH VEHICLE ACCESS AT EACH ELEMENT'S INSTALLATION. BOLLARDS TO CONSIST OF A 4" DIAMETER SCHEDULE 40 GALVANIZED STEEL PLAIN END PIPE GROUTED FULL AND SET IN TRUE VERTICAL POSITION. PROVIDE EIGHT FOOT LONG PIPE LENGTH WITH 48" EXPOSED ABOVE GRADE, AND MINIMUM OF FOUR CUBIC FEET CONCRETE BASE FOR STABILIZATION. PROVIDE TWO COATS OF LISTED WEATHERPROOF PAINT APPLIED IN FIELD, COLOR TO MATCH OWNER'S SPECIFICATION.
11. EXCAVATION AND ALL OTHER WORK ASSOCIATED WITH THIS PROJECT TO BE DONE IN SUCH A MANNER AS TO MINIMIZE POTENTIAL FOR DAMAGE TO EXISTING UNDERGROUND UTILITIES, STRUCTURES, AND OTHER ELEMENTS WITHIN AND ADJACENT TO THE CONSTRUCTION LIMITS, WHETHER INDICATED ON DRAWINGS OR NOT. DAMAGE TO ELEMENTS AS A RESULT OF WORK IN THIS CONTRACT SHALL BE REPAIRED TO THE OWNER'S AND/OR UTILITY AUTHORITY'S SATISFACTION, AT THIS CONTRACTORS EXPENSE.
12. ALL SITE GRADES/ELEVATIONS AND EXACT LOCATIONS OF ITEMS/ ELEMENTS TO BE IN, AT OR FLUSH WITH FINISHED SURFACE OR SITE STRUCTURES (MANHOLES, CURBS, PITS, SLABS ON GRADE, ETC.) PROVIDED IN THIS CONTRACT, OR UNDER SEPARATE CONTRACT TO BE CONFIRMED WITH THE SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AS INSTALLATION COORDINATED WITH THE APPROPRIATE CONTRACTOR(S). THIS INCLUDES DRAIN INLETS, ACCESS FRAMES AND COVERS, CURB BOXES, INDICATING POST ASSEMBLIES, ETC. SPECIAL CONSIDERATION IS TO BE GIVEN TO DRAIN INLETS IN SLOPED STRUCTURE/SURFACE TO INSURE PROPER PLACEMENT AND OPERATION.
13. ALL NEW AND/OR EXISTING SITE GRADES/ELEVATIONS RELATIVE TO MINIMUM COVER REQUIREMENTS FOR UNDERGROUND ITEMS/ELEMENTS INSTALLATION TO BE CONFIRMED IN FIELD AND/OR WITH SITE IMPROVEMENTS/MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED AS REQUIRED.
14. ALL SITE GRADES/ELEVATIONS RELATIVE TO EXTENSION ASSEMBLIES REQUIRED FOR OPERATION OF OR ACCESS TO UNDERGROUND ITEMS/ ELEMENTS TO BE CONFIRMED WITH THE SITE IMPROVEMENTS/ MODIFICATIONS DOCUMENTATION IN ADVANCE OF WORK, AND INSTALLATION COORDINATED WITH THE APPROPRIATE CONTRACTOR. THIS INCLUDES OPERATION EXTENSIONS FOR UNDERGROUND VALVES, ACCESS EXTENSIONS FOR EXTERIOR CLEANOUTS OR PIT FRAMES AND COVERS, ETC.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING SITE PLAN

05/01/2025
23446
NEW SHEET ISSUED
P100
CD PROGRESS SET

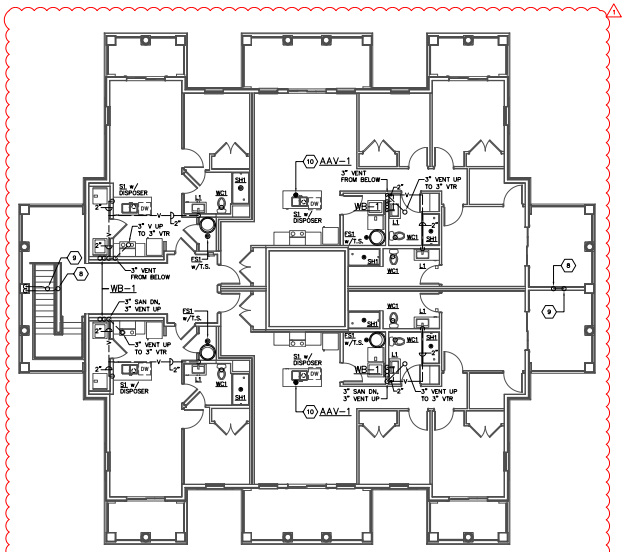
PROGRESS DRAWING NOT FOR CONSTRUCTION

P100-24217.DWG

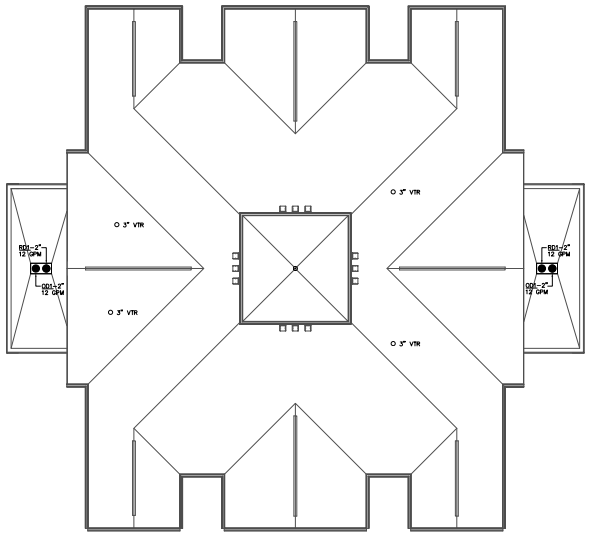
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	C.ANDERSON	24217

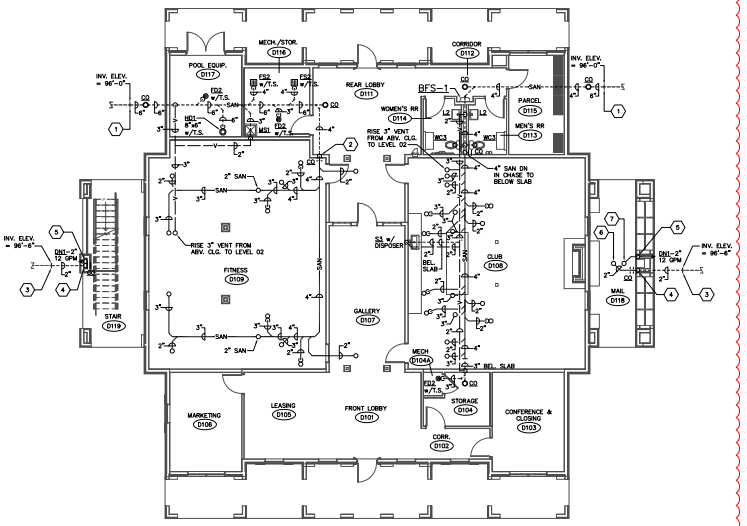
© 2024 MOODY NOLAN, INC.



LEVEL 02 PLUMBING SANITARY PLAN – BUILDING D
SCALE: 1/8"=1'-0" F.F.E. = 112'-4 15/16"



ROOF PLUMBING SANITARY PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 PLUMBING SANITARY PLAN – BUILDING D
SCALE: 1/8"=1'-0" F.F.E. = 100'-0"

CODED NOTES

1. 6" SAN TO 5'-0" BEYOND PERIMETER OF BUILDING BY PLUMBING CONTRACTOR FOR CONNECTION TO AND CONTINUATION BY SITE UTILITY CONTRACTOR. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE POINT OF CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER. INVERT ELEVATION: 96'-0" (F.F.E.=100.0').
2. DROP 4" SANITARY FROM ABOVE CEILING TO BELOW SLAB. PROVIDE BASE-OF-STACK CLEANOUT AT A MINIMUM 18" A.F.F.
3. 2" PRIMARY STORM (12 GPM) TO 5'-0" BEYOND BUILDING FOR CONTINUATION BY THE SITE UTILITY CONTRACTOR. COORDINATE LOCATION, INVERT ELEVATION AND POINT OF CONNECTION WITH THE SITE UTILITY CONTRACTOR. INVERT ELEVATION: 96'-6" (F.F.E.=100.0').
4. DROP 2" PRIMARY STORM (12 GPM) IN WALL STRUCTURE TO BELOW SLAB. PROVIDE BASE-OF-STACK CLEANOUT AT A MINIMUM 18" A.F.F.
5. 2" SECONDARY STORM (12 GPM) DOWN IN WALL STRUCTURE FROM ABOVE AND THRU WALL TO OUTSIDE. PROVIDE DOWNSPOUT DISCHARGE NOZZLE (DN1) ON WALL AT 12" ABOVE GRADE.
6. 2" PRIMARY STORM (12 GPM) DOWN FROM FLOOR ABOVE.
7. 2" SECONDARY STORM (12 GPM) DOWN FROM FLOOR ABOVE.
8. 2" PRIMARY STORM (12 GPM) DOWN IN WALL STRUCTURE FROM PRIMARY ROOF DRAIN.
9. 2" SECONDARY STORM (12 GPM) DOWN IN WALL STRUCTURE FROM OVERFLOW ROOF DRAIN.
10. PROVIDE AIR ADMITTANCE VALVE IN PARTIAL HEIGHT WALL AS HIGH AS POSSIBLE BELOW COUNTERTOP. PROVIDE COMPLETE WITH WALL BOX AND LOUVERED GRILLE FACEPLATE.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - LEVEL 01 & 02 PLUMBING PLANS

05/01/2025
23446
P106-D
CD PROGRESS SET

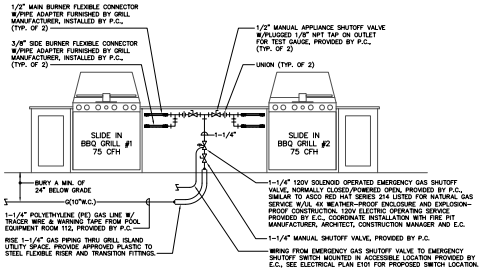
PROGRESS DRAWING NOT FOR CONSTRUCTION

P106-D-24217.DWG

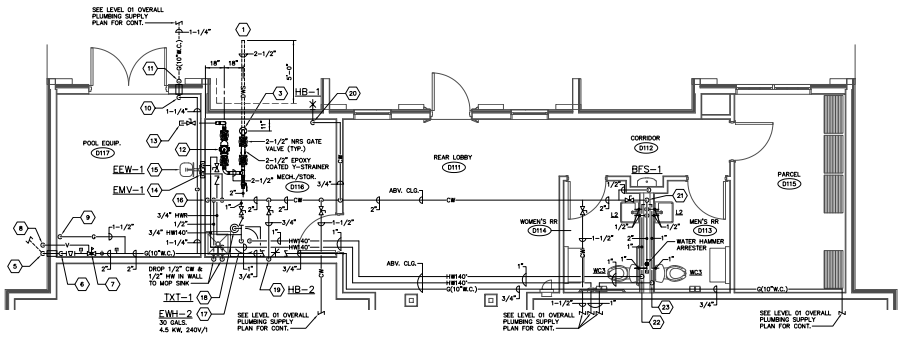
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

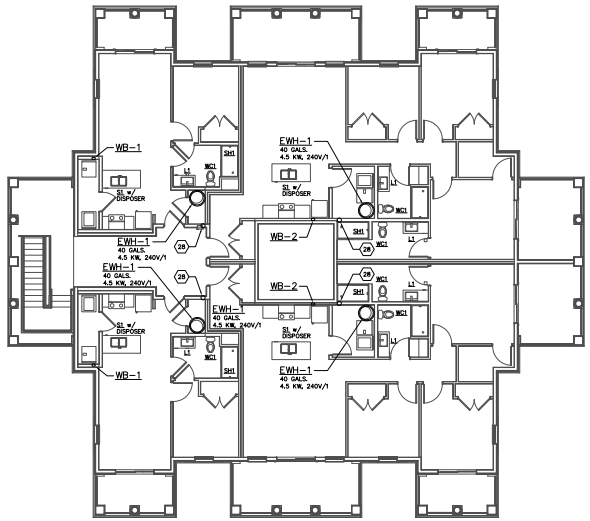
© 2024 MOODY NOLAN INC.



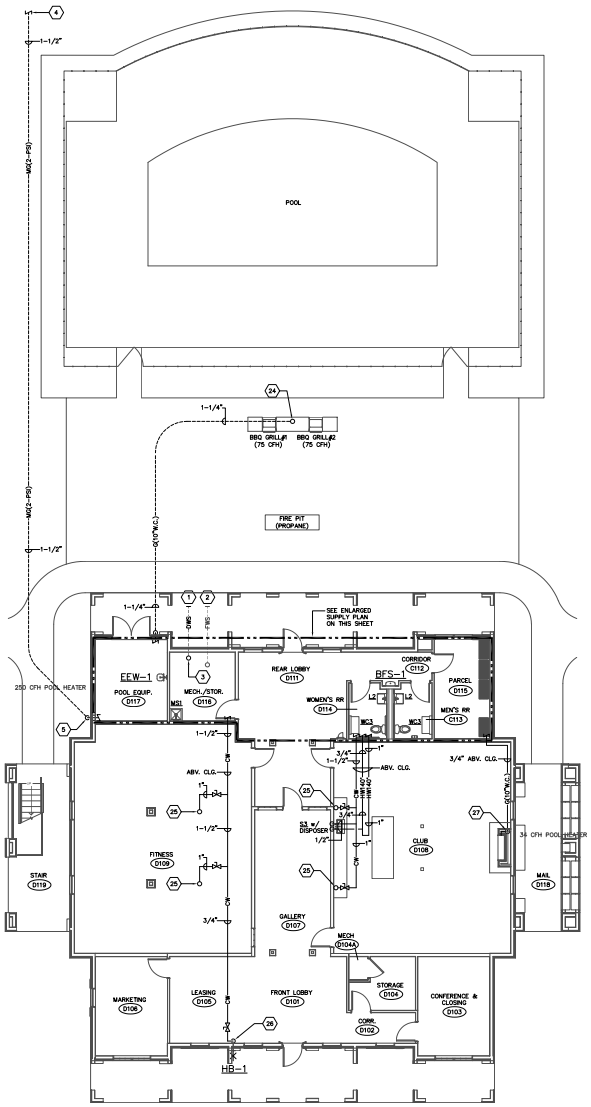
GRILL ISLAND GAS PIPING DIAGRAM



ENLARGED LEVEL 01 PLUMBING SUPPLY PLAN
SCALE: 1/4"=1'-0"



LEVEL 02 PLUMBING SUPPLY PLAN – BUILDING D
SCALE: 1/8"=1'-0" F.F.E. = 112'-4 15/16"



LEVEL 01 PLUMBING SUPPLY PLAN – BUILDING D
SCALE: 1/8"=1'-0" F.F.E. = 100'-0"

CODED NOTES

1. 2-1/2" DOMESTIC WATER SERVICE (DWS) FROM SITE WATER SERVICE LOOP TO 5'-0" OUTSIDE BUILDING FOUNDATION BY SITE UTILITY CONTRACTOR. PLUMBING CONTRACTOR SHALL CONNECT TO AND EXTEND 2-1/2" DWS INTO BUILDING. COORDINATE PIPE MATERIAL TO MATCH WITH SITE UTILITY CONTRACTOR. COORDINATE CONNECTION AND DEPTH OF PIPING WITH SITE UTILITY CONTRACTOR AND CONSTRUCTION MANAGER.
2. 4" FIRE WATER SERVICE (FWS). SEE FIRE PROTECTION DRAWINGS.
3. RISE 2-1/2" DOMESTIC WATER SERVICE FROM BELOW SLAB AND FLANGE AT A MINIMUM 12" ABOVE FINISH FLOOR BY PLUMBING CONTRACTOR. SEE ENLARGED PLAN ON THIS SHEET FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
4. APPROXIMATELY 400'-0" FROM GAS METER SETTING AT REFUGEE ROAD TO BUILDING ENTRANCE. COORDINATE INSTALLATION OF METER SETTING WITH COLUMBIA GAS AND CONSTRUCTION MANAGER.
5. RISE 1-1/2" GAS (434 CFH @ 2-PSI) FROM BELOW GRADE TO 12" ABOVE GRADE AND EXTEND INTO BUILDING. PROVIDE LUBRICATED PLUG SHUTOFF VALVE ABOVE GRADE. PROVIDE STEEL PIPE SLEEVE WITH WATER TIGHT SEAL AT WALL PENETRATION.
6. RISE 1-1/2" GAS PIPING TO UNDERSIDE OF OVERHEAD STRUCTURE.
7. PROVIDE LINE REGULATOR. SET OUTLET TO 10" W.C. WITH A CAPACITY OF 434 CFH.
8. FULL SIZE REGULATOR VENT THRU WALL. PROVIDE 90° ELL TURNED DOWN WITH INSECT SCREEN ON OUTLET. PROVIDE STEEL PIPE SLEEVE WITH WATER TIGHT SEAL AT WALL PENETRATION.
9. DROP 1-1/2" GAS AND MAKE FINAL CONNECTION TO POOL HEATER. PROVIDE IN ORDER, UNION, APPLIANCE VALVE, TEE, AND DIRT LEG. ALL PIPE SIZE REFER TO NATURAL GAS APPLIANCE CONNECTION DETAIL ON SHEET P402 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
10. DROP 1-1/4" GAS (150 CFH @ 10" W.C.) TIGHT ON WALL TO 12" ABOVE FINISH FLOOR. PROVIDE TEE FITTING AND 4" MINIMUM DIRT LEG AT BOTTOM OF DROP. EXTEND 1-1/4" GAS PIPING FROM TEE FITTING HORIZONTALLY THROUGH WALL TO OUTDOORS. PROVIDE STEEL PIPE SLEEVE WITH WATER TIGHT SEAL AT WALL PENETRATION.
11. DROP 1-1/4" GAS (150 CFH @ 10" W.C.) TO BELOW GRADE AND PROVIDE LUBRICATED PLUG SHUTOFF VALVE ABOVE GRADE. EXTEND BELOW GRADE TO BBQ GRILLS.
12. PROVIDE 2-1/2" ASSE 1013 LISTED/APPROVED RPZ BACKFLOW ASSEMBLY W/ NRS GATE VALVES AND AIR GAP FITTING ON 2-1/2" COLD WATER SUPPLY TO POOL EQUIPMENT ROOM. LABEL ALL POOL EQUIPMENT SUPPLY PIPING AS "NONPOTABLE WATER". EXTEND DRAIN FULL SIZE FROM RELIEF VALVE AND INDIRECT TO NEAREST FLOOR SINK W/ AIR GAP. BACKFLOW ASSEMBLY SHALL BE EQUIVALENT TO ZURN MODEL 375.
13. PROVIDE 2-1/2" COLD WATER STUB VALVED AND CAPPED FROM ASSE 1013 LISTED/APPROVED RPZ BACKFLOW ASSEMBLY FOR CONTINUATION BY POOL EQUIPMENT CONTRACTOR. LABEL ALL POOL EQUIPMENT SUPPLY PIPING AS "NONPOTABLE WATER".
14. 1/2" COLD WATER AND 1/2" HOT WATER DOWN IN WALL TO EMERGENCY THERMOSTATIC MIXING VALVE (EMV-1) MOUNTED ON WALL ABOVE EMERGENCY EYE/FACE WASH (EEW-1). PROVIDE 1/2" TEPID WATER (85°F.) FROM MIXING VALVE AND DROP IN WALL TO SUPPLY CONNECTION OF EEW-1. INSULATE ALL PIPING PER SPECIFICATIONS AND PROVIDE PROTECTIVE PVC COVER OVER INSULATION WITHIN POOL EQUIPMENT ROOM.
15. WALL MOUNTED EMERGENCY EYE/FACE WASH. SEE PLUMBING EQUIPMENT SCHEDULE ON SHEET P201 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER AND POOL EQUIPMENT CONTRACTOR.
16. RISE 2" COLD WATER TO UNDERSIDE OF OVERHEAD STRUCTURE.
17. PROVIDE ELECTRIC LOW BOY TANK WATER HEATER (EWH-2) ON COMBINATION SUPPORT PLATFORM/DRAIN PAN SUSPENDED FROM STRUCTURE. 1" COLD WATER/1" 140° HOT WATER TO ROOM WATER HEATER. SEE EWH-2, ELECTRIC WATER HEATER PIPING DIAGRAM ON SHEET P401 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
18. PROVIDE THERMAL EXPANSION TANK (TXT-1) SUSPENDED FROM STRUCTURE. SEE PLUMBING EQUIPMENT SCHEDULE ON SHEET P301 AND EWH-2, ELECTRIC WATER HEATER PIPING DIAGRAM ON SHEET P401 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
19. DROP 3/4" COLD WATER IN WALL STRUCTURE TO INTERIOR WALL HYDRANT (HB-2). MOUNT WALL HYDRANT AT 24" ABOVE FINISH FLOOR.
20. DROP 3/4" COLD WATER ON WALL TO EXTERIOR WALL HYDRANT (HB-1). INSTALL WALL HYDRANT AT 24" ABOVE FINISH FLOOR. PROVIDE FULL PORT BALL SHUTOFF VALVE AT 3 FEET ABOVE FINISH FLOOR. PIPE INSULATION SHALL RUN CONTINUOUSLY TO WALL HYDRANT. PROVIDE PROTECTIVE PVC COVER OVER EXPOSED INSULATION WITHIN 10 FEET ABOVE FINISH FLOOR.
21. DROP 2" COLD WATER SUPPLY MANIFOLD PIPING FROM ABOVE CEILING IN WALL STRUCTURE TO ROUGH-IN HEIGHT OF WATER CLOSET FLUSH VALVE SUPPLY. TAP 1/2" COLD WATER TO EACH LAVATORY SINK. TAP 1" COLD WATER TO EACH URINAL.
22. DROP 1" 140° HOT WATER SUPPLY LOOP PIPING FROM ABOVE CEILING IN CHASE TO ROUGH-IN HEIGHT OF LAVATORY HAND WASHING SINKS. TAP 1/2" HOT WATER TO EACH LAVATORY SINK.
23. RISE 1" 140° HOT WATER SUPPLY LOOP PIPING FROM LAVATORY HAND WASHING SINKS IN CHASE TO ABOVE CEILING.
24. RISE 1-1/4" GAS (150 CFH @ 10" W.C.) FROM BELOW GRADE INTO UTILITY SPACE OF GRILL ISLAND. PROVIDE ANGELESS RISER TO TRANSITION FROM PLASTIC PIPE BELOW GRADE TO STEEL PIPE ABOVE GRADE. COORDINATE EXACT REQUIREMENTS WITH GRILL MANUFACTURER INSTALLATION INSTRUCTIONS. REFER TO GRILL PIPING DIAGRAM ON THIS SHEET FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
25. RISE 1" COLD WATER TO FLOOR ABOVE.
26. DROP 3/4" COLD WATER IN WALL FROM ABOVE CEILING TO EXTERIOR WALL HYDRANT (HB-1). INSTALL WALL HYDRANT AT 24" ABOVE FINISH FLOOR. PIPE INSULATION SHALL RUN CONTINUOUSLY TO WALL HYDRANT.
27. DROP 3/4" GAS FROM ABOVE CEILING TO FIREPLACE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FIREPLACE INSTALLING CONTRACTOR. PROVIDE 3/4" X 1/2" REDUCING ELBOW AT BOTTOM OF DROP AND EXTEND 1/2" GAS LINE THROUGH KNOCKOUT INTO FIREPLACE VALVE COMPARTMENT. CAULK GAP BETWEEN PIPING AND KNOCKOUT WITH HIGH TEMPERATURE CAULK OR STUFF WITH NON-COMBUSTIBLE UNFACED INSULATION TO PREVENT COLD AIR INFILTRATION. CONNECT TO 1/2" FLEX BALL VALVE ASSEMBLY FURNISHED W/ FIREPLACE AND MAKE FINAL CONNECTION TO GAS VALVE.
28. RISE 1" DOMESTIC WATER SERVICE FROM FIRST FLOOR TO SECOND FLOOR AND CAP WATER TIGHT ABOVE 1" BRANCH TO UNIT. SEE ENLARGED UNIT PLUMBING PLANS FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING D - LEVEL 01 & 02 PLUMBING SUPPLY PLANS

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

NEW SHEET ISSUED
P107-D

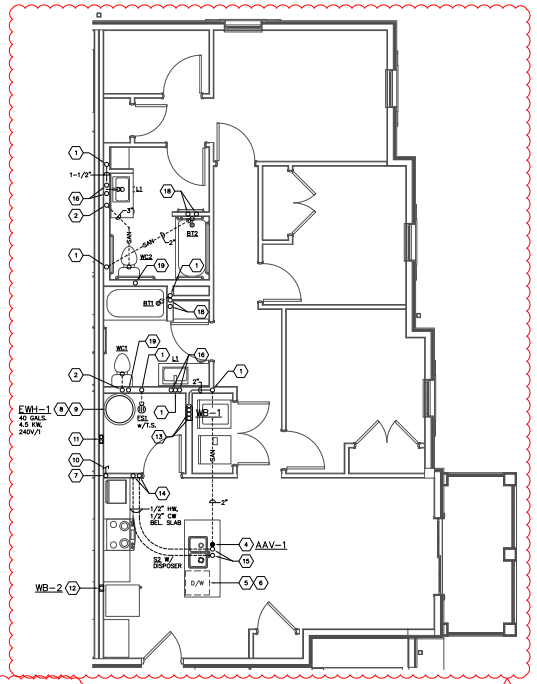
CD PROGRESS SET

P107-D-24217.DWG

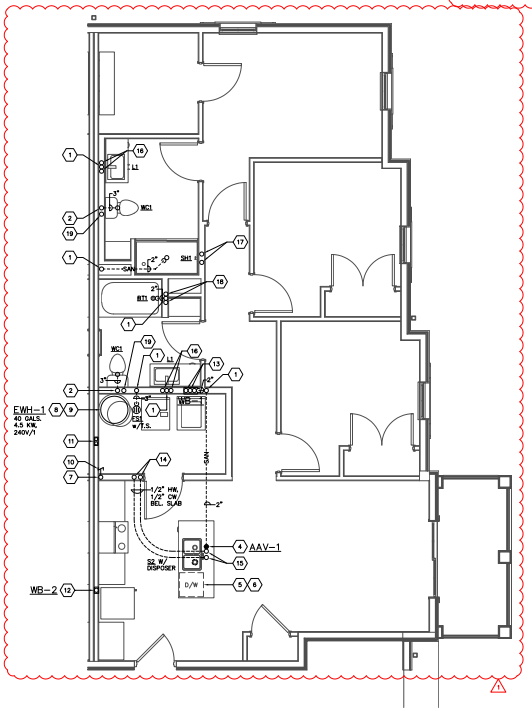
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	C.ANDERSON	24217

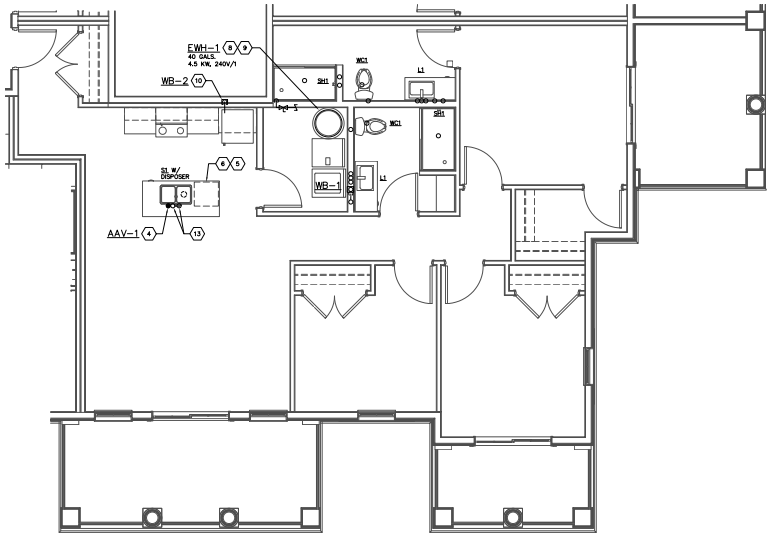
© 2024 MOODY NOLAN INC.



3 BEDROOM ANSI TYPE A
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM
PLUMBING UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM CLUBHOUSE
PLUMBING PLAN
SCALE: 1/4"=1'-0"

P202-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CANDERSON	24217

CODED NOTES

1. 3" WASTE STACK VENT SYSTEM.
2. 4" SINGLE STACK VENT SYSTEM.
3. NOT USED.
4. PROVIDE P/R ADMITTANCE VALVE IN PARTIAL HEIGHT WALL AS HIGH AS POSSIBLE BELOW COUNTERTOP. PROVIDE COMPLETE WITH WALL BOX AND LOUVERED GRILLE FACEPLATE.
5. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. EXTEND 1" FLEXIBLE DISCHARGE TUBING FURNISHED WITH DISHWASHER THROUGH MILLWORK TO DRAIN CONNECTION ON WASTE DISPOSER. INSTALL PER DISHWASHER MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH OPC 409.4. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
6. UNDER-COUNTER DISHWASHER FURNISHED BY OTHERS. PROVIDE 3/8" HW SUPPLY INCLUDING CONNECTION TO THE DISHWASHER. THE HOT WATER SUPPLY SHALL BE FED FROM ADJACENT SINK HOT WATER ROUGH-IN. PROVIDE DUAL OUTLET DUAL SHUTOFF STOP VALVE WITH 3/8" COMPRESSION OUTLETS. EXTEND 3/8" BRAIDED STAINLESS STEEL TUBING FURNISHED WITH DISHWASHER THRU MILLWORK AND MAKE FINAL CONNECTION TO DISHWASHER IN ACCORDANCE WITH OPC 409.2. COORDINATE INSTALLATION WITH THE MILLWORK CONTRACTOR AND DISHWASHER INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
7. PROVIDE 1" DOMESTIC WATER SERVICE FOR DWELLING UNIT WITH FULL PORT BALL SHUTOFF VALVE AND SPACER BAR FOR 3/4" TENANT WATER METER, SEE "EWH-1; DWELLING UNIT DOMESTIC CW, HW, AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
8. 3/4" CW, 3/4" HW TO AND FROM ELECTRIC WATER HEATER, SEE "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK AT THIS LOCATION.
9. ELECTRIC WATER HEATER, LOW-BOY TANK STORAGE TYPE ON FLOOR IN DRAIN PAN. SEE PLUMBING EQUIPMENT SCHEDULE ON SHEET P.300 AND "DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL INFORMATION AND SCOPE OF WORK AT THIS LOCATION.
10. 1-1/2" CW SUPPLY RISER UP AND DOWN.
11. MULTI-PORT HOT WATER AND COLD WATER PEX MANIFOLDS IN WALL. SEE PEX MANIFOLD PIPING DIAGRAM ON SHEET P401.
12. REFRIGERATOR FURNISHED BY OTHERS. PLUMBING CONTRACTOR SHALL DROP 1/2" CW IN WALL STRUCTURE TO REFRIGERATOR WALL OUTLET BOX (WB-2). PROVIDE 7'-0" OF 1/4" FOOD GRADE PLASTIC TUBING COILED ON WALL BEHIND REFRIGERATOR AND MAKE CONNECTIONS TO REFRIGERATOR SUPPLY VALVE. PROVIDE QUARTER-TURN BALL SHUTOFF VALVE AND ASSE 1024 LISTED AND APPROVED DUAL CHECK BACKFLOW PREVENTER AT SUPPLY CONNECTION. BACKFLOW PREVENTER SHALL BE EQUIVALENT TO ZURN WILKINS MODEL 14(0)Y14F-7000L-CH W/CHROME FINISH. COORDINATE INSTALLATION WITH THE REFRIGERATOR INSTALLING CONTRACTOR PRIOR TO ANY WORK BEING DONE.
13. 1/2" HW AND 1/2" CW ABOVE CEILING FROM PEX MANIFOLD. DROP IN WALL STRUCTURE TO LAUNDRY WALL BOX (WB-1).
14. 1/2" HW AND 1/2" CW ABOVE CEILING FROM PEX MANIFOLD. DROP IN WALL STRUCTURE TO BELOW SLAB.
15. RISE 1/2" HW AND 1/2" CW FROM BELOW SLAB IN PARTIAL HEIGHT WALL TO ISLAND SINK.
16. 1/2" HW AND 1/2" CW ABOVE CEILING FROM PEX MANIFOLD. DROP IN WALL STRUCTURE TO LAVATORY SINK.
17. 1/2" HW AND 1/2" CW ABOVE CEILING FROM PEX MANIFOLD. DROP IN WALL STRUCTURE TO SHOWER CONTROL VALVE.
18. 1/2" HW AND 1/2" CW ABOVE CEILING FROM PEX MANIFOLD. DROP IN WALL STRUCTURE TO TUB/SHOWER CONTROL VALVE.
19. 1/2" CW ABOVE CEILING FROM PEX MANIFOLD. DROP IN WALL STRUCTURE TO WATER CLOSET.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT PLUMBING PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION	05/01/2025
	23446
	P202
	CD PROGRESS SET

PLUMBING EQUIPMENT SCHEDULE

EWH-1: ELECTRIC WATER HEATER (BUILDING A, B, C, & D – UNITS)
EQUIVALENT STATE MODEL EN6-40-DOLS; COMMERCIAL GRADE RESIDENTIAL ELECTRIC WATER HEATER SHALL BE A LOW-BOY TYPE UNIT WITH TOP INLET/OUTLET CONNECTIONS AND BE OF A GLASS-LINED DESIGN, AND ELECTRICALLY HEATED, AND APPROVED BY THE UNDERWRITERS LABORATORY (UL-174). THE HEATER SHALL MEET ALL APPLICABLE ENERGY CODES, WITH TWO (2) 4.5 KW, 240 VOLT, 1 PHASE INTERLOCKED NON-SIMULTANEOUS OPERATION HEATING ELEMENTS AND A RECOVERY CAPACITY OF 21.0 GALLONS PER HOUR AT A TEMPERATURE RISE OF 90 DEGREES F., STORAGE CAPACITY OF 38 GALLONS, 50 GALLS. FIRST HOUR RATING. HEATER TO BE EQUIPPED WITH MAGNESIUM ANODE ROD. ALL INTERNAL SURFACES OF THE HEATER EXPOSED TO WATER SHALL BE PERMAGLAS LINED. UNIT SHALL BE FURNISHED FACTORY INSTALLED ASME RATED TEMPERATURE & PRESSURE RELIEF VALVE, LOW RESTRICTIVE BRASS DRAIN VALVE, HYDROJET SEDIMENT REDUCING DEVICE, AND HEAT TRAPS. HEATING ELEMENTS SHALL BE CONTROLLED BY AN INTEGRAL MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT-OFF SWITCH. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH WITH HINGED FRONT ACCESS PANEL OVER FOAM INSULATION OVER ELECTRICAL JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK. PROVIDE WITH A MINIMUM 1-1/2" DEEP DRAIN PAN. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO "EWH-1; ELECTRIC WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK.

EWH-2: ELECTRIC WATER HEATER (BUILDING D – CLUBHOUSE)
EQUIVALENT STATE MODEL EN6-30-DOLS; COMMERCIAL GRADE RESIDENTIAL ELECTRIC WATER HEATER SHALL BE A LOW-BOY TYPE UNIT WITH TOP INLET/OUTLET CONNECTIONS AND BE OF A GLASS-LINED DESIGN, AND ELECTRICALLY HEATED, AND APPROVED BY THE UNDERWRITERS LABORATORY (UL-174). THE HEATER SHALL MEET ALL APPLICABLE ENERGY CODES, WITH TWO (2) 4.5 KW, 240 VOLT, 1 PHASE INTERLOCKED NON-SIMULTANEOUS OPERATION HEATING ELEMENTS AND A RECOVERY CAPACITY OF 21.0 GALLONS PER HOUR AT A TEMPERATURE RISE OF 90 DEGREES F., STORAGE CAPACITY OF 28 GALLONS, 44 GALLS. FIRST HOUR RATING. HEATER TO BE EQUIPPED WITH MAGNESIUM ANODE ROD. ALL INTERNAL SURFACES OF THE HEATER EXPOSED TO WATER SHALL BE PERMAGLAS LINED. UNIT SHALL BE FURNISHED FACTORY INSTALLED ASME RATED TEMPERATURE & PRESSURE RELIEF VALVE, LOW RESTRICTIVE BRASS DRAIN VALVE, HYDROJET SEDIMENT REDUCING DEVICE, AND HEAT TRAPS. HEATING ELEMENTS SHALL BE CONTROLLED BY AN INTEGRAL MOUNTED THERMOSTAT AND HIGH TEMPERATURE CUT-OFF SWITCH. THE OUTER JACKET SHALL BE OF BAKED ENAMEL FINISH WITH HINGED FRONT ACCESS PANEL OVER FOAM INSULATION OVER ELECTRICAL JUNCTION BOX WITH INTEGRAL TERMINAL BLOCK. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO "EWH-2; ELECTRIC WATER HEATER PIPING DIAGRAM" ON SHEET P401 FOR ADDITIONAL SCOPE OF WORK.

RCP-1: HOT WATER RETURN RECIRCULATING PUMP
EQUIVALENT TO GRUNDFOS UP 15-10 B7; BRONZE CONSTRUCTION, LISTED FOR POTABLE WATER SERVICE AND 150 PSIG WORKING PRESSURE, 3.0 GPM AT 3.7 FEET OF HEAD, 115 VOLTS, 25 WATTS, SINGLE PHASE, 0.22 AMPS, SWEAT CONNECTIONS, AND LINE CORD. MOUNT ON WALL NEAR WATER HEATER IN ACCESSIBLE LOCATION. SEE EWH-2; ELECTRIC WATER HEATER PIPING DIAGRAM ON SHEET P401.

BV-1: HOT WATER RETURN BALANCING VALVE
CALEFFI "QUICKSETTER+" MODEL #132 SERIES BALANCING VALVE WITH INTEGRAL FLOW METER. BALANCING VALVE MUST BE DESIGNED WITH A BRASS BODY, BALL CONTROL STEM, FLOW METER BODY, HEADWORK, AND SHUTOFF CONTROL STEM, CHROME-PLATED; EPDM SEALS AND PRE-FORMED SHELL INSULATION IN EXPANDED CLOSED CELL PE-X. THE BALANCING VALVE MUST INCLUDE NPT FEMALE THREADED CONNECTIONS FOR 3/4" SIZE. EACH VALVE HAS 150 PSI (10 BAR) MAXIMUM WORKING PRESSURE AND 14°F - 230°F (-10 -110°C) WORKING TEMPERATURE RANGE, AND ± 10% MEASUREMENT ACCURACY. SET VALVE TO 3.0 GPM MINIMUM OR AS NOTED ON PLANS. PROVIDE WITH SEPARATE LEAD FREE CHECK VALVE. SEE EWH-2; ELECTRIC WATER HEATER PIPING DIAGRAM ON SHEET P401.

TXT-1: THERMAL EXPANSION TANK
EQUIVALENT TO AMTROL MODEL ST-5C; TANKS TO BE ASME LISTED/APPROVED WITH STEEL SHELL, RIGID POLYPROPYLENE LINER AND HEAVY DUTY BUTYL NSF/ANSI 61 DIAPHRAGM. LINER AND DIAPHRAGM MECHANICALLY BONDED TO SHELL TO FORM A SEPARATE AIR CHAMBER AND NON-CORROSIVE WATER RESERVOIR, PROVIDED WITH A STANDARD AIR VALVE FITTING. 2.0 GAL. TANK VOLUME, 0.9 GALLONS ACCEPTANCE VOLUME, 200°F MAXIMUM OPERATING TEMPERATURE 150 PSIG MAXIMUM WORKING PRESSURE. AIR CHAMBER PRE-CHARGED AT 10-12 PSIG PRIOR TO DELIVERY, CONTRACTOR SHALL FIELD ADJUST THE MANUFACTURER'S PRE-CHARGE AIR PRESSURE TO THE ACTUAL SYSTEM WORKING PRESSURE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION GUIDELINES. REFER TO WATER HEATER PIPING DIAGRAMS ON SHEET P401 FOR LOCATION AND ADDITIONAL INFORMATION.

T.S.: TRAP SEAL PROTECTION DEVICE (PRIVATE DWELLING UNITS)
EQUIVALENT TO SURE-SEAL MANUFACTURING BARRIER TYPE FLOOR DRAIN TRAP SEAL PROTECTION DEVICE. THE DEVICE SHALL BE MADE FROM ELASTOMERIC NEOPRENE MATERIAL AND SHALL NOT CREATE AN EFFECTIVE RESTRICTION ON WATER FLOW. THE DEVICE SHALL CONFORM WITH OPC 709.1 AND MEET ASSE 1072 FOR FLOW RATES. THE DEVICE SHALL CONNECT WITHIN A FLOOR DRAIN THAT CONFORMS TO ANSI/ASME A112.63. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS.

HB-1: EXTERIOR HOSE BIBB
EQUIVALENT TO WOODFORD MODEL 67; AUTOMATIC DRAINING WALL HYDRANT WITH INTEGRAL ASSE 1052 APPROVED DOUBLE CHECK BACKFLOW PREVENTER, LOOSE TEE KEY, HARDENED STAINLESS STEEL OPERATING STEM AND ONE-PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS. BRONZE SEAT AND SEAT WASHER. 3/4" INLET AND 3/4" HOSE OUTLET CONNECTION. CHROME PLATED FINISH. PROVIDE WITH WOODFORD MODEL SL-65 STEM LOCK. COORDINATE INSTALLATION WITH ARCHITECT AND CONSTRUCTION MANAGER.

HB-2: INTERIOR HOSE BIBB
EQUIVALENT TO WOODFORD MODEL 75; CLOSE COUPLED TRIMLINE EXPOSED TYPE WALL HYDRANT WITH INTEGRAL ASSE 1011 APPROVED ANTI-SIPHON VACUUM BREAKER, LOOSE TEE KEY, HARDENED STAINLESS STEEL OPERATING STEM AND ONE-PIECE VALVE PLUNGER TO CONTROL BOTH FLOW AND DRAIN FUNCTIONS. BRONZE SEAT AND SEAT WASHER. 3/4" INLET AND 3/4" HOSE OUTLET CONNECTION. CHROME PLATED FINISH. COORDINATE INSTALLATION WITH ARCHITECT AND CONSTRUCTION MANAGER.

HB-3: ROOF HOSE BIBB
EQUIVALENT TO WOODFORD SRH-MS; ASSE 1057 LISTED FREEZELESS ROOF HYDRANT W/FIELD TESTABLE ASSE 1052 DOUBLE CHECK BACKFLOW PREVENTER, DOES NOT REQUIRE A DRAIN LINE, LEVER HANDLE OPERATOR, 3/4" NPT FEMALE INLET CONNECTION, 3/4" HOSE THREAD OUTLET, MOUNTING SYSTEM.

WB-1: WALL OUTLET BOX (LAUNDRY SUPPLY/DRAIN)
EQUIVALENT TO OATEY CENTRO II SERIES PVC DOUBLE HOSE BIBB AND DRAIN BOX COMBINATION WITH WATER HAMMER ARRESTERS, QUARTER-TURN VALVES, 1/2" INLET CONNECTIONS, 3/4" MALE HOSE-THREAD OUTLET CONNECTIONS AND 2" DRAIN INLET. PROVIDE LOCKING/CROSS-BRACING IN WALL STRUCTURE AS REQUIRED TO SECURE INSTALLATION. BLOCKING/CROSS-BRACING MATERIALS TO COMPLY WITH GENERAL CONTRACT SPECIFICATIONS. INSTALLATIONS IN RATED STRUCTURES ARE TO BE PROVIDED WITH A LISTED FIRE-STOP ASSEMBLY AS REQUIRED TO MAINTAIN THE APPROPRIATE STRUCTURAL RATING.

WB-2: WALL OUTLET BOX (REFRIGERATOR)
EQUIVALENT TO SIOUX CHIEF 696 SERIES (696RG SERIES FIRE RATED) ABS REFRIGERATOR OUTLET BOX WITH WATER HAMMER ARRESTER, QUARTER-TURN BRASS BALL VALVE, 1/2" INLET CONNECTION AND 1/4" O.D. COMPRESSION OUTLET CONNECTION, ALL CHROME PLATED. INSTALLATIONS IN RATED STRUCTURES ARE TO BE PROVIDED WITH A LISTED FIRE-STOP ASSEMBLY AS REQUIRED TO MAINTAIN THE APPROPRIATE STRUCTURAL RATING.

AAV-1: AIR ADMITTANCE VALVE
EQUIVALENT TO OATEY MODEL 39016 SURE-VENT PVC ASSE 1051 AIR ADMITTANCE VALVE WITH POSITIVE/NEGATIVE PRESSURE REACTIVE PVC SLIDING DISK, GAS-TIGHT RUBBER DIAPHRAGM, AND 1-1/2" x 2" LISTED/APPROVED SOLVENT WELD ADAPTER. UNIT TO MEET ASTM D2665/D2661.

TMV-1: THERMOSTATIC MIXING VALVE (PUBLIC HAND WASHING SINKS)
EQUIVALENT TO ZURN WILKINS MODEL ZW3870XLT; ASSE 1070 LISTED/APPROVED POINT-OF-USE THERMOSTATIC TEMPERING VALVE, SOLID BRASS CONSTRUCTION WITH CHROME FINISH, ADJUSTABLE TEMPERATURE SETTING AND INTEGRAL CHECK VALVES. SET OUTLET NOT TO EXCEED 109°F. PROVIDE ONE UNIT PER PUBLIC RESTROOM HAND WASHING SINK. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS.

BFS-1: BOTTLE FILLING STATION
EQUIVALENT TO ELKAY MODEL LZWSSM; SURFACE MOUNT FILTERED NON-REFRIGERATED BOTTLE FILLING STATION, STAINLESS STEEL FINISH. FEATURES SHALL INCLUDE ANTIMICROBIAL, FILTERED, GREEN TICKER, HANDS FREE, LAMINAR FLOW, REAL DRAIN, VISUAL FILTER MONITOR, ELECTRONIC BOTTLE FILLER SENSOR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION. UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.

DRAIN & CLEANOUT SCHEDULE

DES.	LOCATION	DESCRIPTION
FD1	FINISHED FLOOR F.D.	ZURN Z415BZ CAST IRON FLOOR DRAIN WITH DOUBLE DRAINAGE FLANGE AND WEEPHOLES, BOTTOM CAULK OUTLET WITH TYPE BZ SIZE 6¼" DIAMETER POLISHED NICKEL BRONZE LEVELING STRAINER. FURNISH WITH CLAMPING COLLAR EXCEPT FLOOR DRAINS IN ON-GRADE LOCATIONS.
FD2	MECHANICAL ROOM F.D.	ZURN MODEL NO. ZN-550 CAST IRON FLOOR DRAIN WITH SECONDARY DRAINAGE/ ANCHOR FLANGE, WEEPHOLES, GRATE WITH POLISHED NICKEL BRONZE FINISH, 9" DIAMETER ROUND TOP WITH SQUARE OPENINGS AND BOTTOM GASKET CONNECTION OUTLET. PROVIDE WITH SEDIMENT BUCKET. DRAINS IN STRUCTURES ABOVE GRADE TO BE FURNISHED WITH CLAMPING COLLAR.
FS1	INDIRECT WASTE RECEPTOR	SIOUX CHIEF 864 SERIES "LITTLEMAX"; MOLDED IMPACT-MODIFIED PVC ROUND FLOOR SINK RECEPTOR WITH CLAMPING COLLAR, 7-1/4" DIA. TOP, 3-1/8" DEEP SUMP, PVC OPEN-HALF STRAINER, BOTTOM SCH. 40 HUB CONNECTION.
FS2	INDIRECT WASTE RECEPTOR	SIOUX CHIEF 861 SERIES "SQUAREMAX"; MOLDED IMPACT-MODIFIED PVC FLOOR SINK RECEPTOR WITH REMOVABLE NICKEL-BRONZE OPEN-HALF STRAINER, CONCRETE ANCHOR FLANGE, 11-3/16"x11-3/16" SQUARE TOP, 6-3/8" DEEP SUMP, STAINLESS STEEL MESH DEBRIS BASKET, ABS FLAT BOTTOM STRAINER, AND BOTTOM SCH. 40 HUB CONNECTION.
HD1	MECHANICAL/ UTILITY INDIRECT WASTE AREAS	HUB AND SPIGOT WASTE PIPE SECTION IN VERTICAL ORIENTATION, WITH THE "HUB" PORTION COMPLETELY EXPOSED ABOVE THE FLOOR SURFACE. THE INLET/FLOOR RIM SHALL BE A MINIMUM 3" ABOVE THE FINISH FLOOR SURFACE.
RD1/ OD1	FLAT ROOF AREA (PRIMARY/ SECONDARY)	ZURN MODEL Z100F; 12" DIAMETER COMBINATION ROOF DRAIN AND OVERFLOW DRAIN, CAST IRON BODYS, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE TOP-SET DECK PLATE, LOW SILHOUETTE CAST IRON DOMES, SECONDARY CLAMPING COLLAR, 2" INTERNAL OVERFLOW DAM, AND BOTTOM NO-HUB OUTLET. FURNISH WITH BODY EXTENSION (IF REQUIRED) FOR BUILT-UP ROOF CONSTRUCTION.
DN1	EXTERIOR DOWNSPOUT NOZZLE	ZURN MODEL Z199-SS; DOWNSPOUT NOZZLE, ALL NICKEL BRONZE BODY, WALL FLANGE, OUTLET NOZZLE, AND NATURAL BRONZE FINISH. FURNISH WITH STAINLESS STEEL SCREEN AT OPENING.
CO	WALLS OF FINISHED AREA	USE CLEANOUT TEE AND PROVIDE CLEANOUT AND ACCESS COVER SIMILAR TO ZURN Z-1446 WITH ROUND POLISHED STAINLESS STEEL ACCESS COVER AND ABS PLASTIC THREADED PLUG. SIZE TO SUIT CLEANOUT.
CO	FLOORS OF FINISHED AREA	PROVIDE FRAME AND ACCESS COVER SIMILAR TO ZURN ZN-1400 WITH GAS TIGHT BRONZE PLUG, ROUND SCREWDOWN ACCESS COVER BOX WITH POLISHED SCORIATED TOP AND ANCHOR LUGS. PROVIDE WITH CARPET MARKER WHERE NECESSITATED.
CO	EXTERIOR	ZURN Z-1400-HD CAST IRON ADJUSTABLE CLEANOUT, COATED CAST IRON INTERNAL PLUG WITH LEAD SEAL AND HEAVY-DUTY LOOSE-SET SCORIATED ROUND CAST IRON TRACTOR COVER SIZE TO SUIT CLEANOUT.
CO	ALL OTHER CLEANOUTS	ZURN ZB-1470 FLUSH WITH FLOOR OR WALL AND HAVE COUNTER-SUNK BRASS HEADS.

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE NOTES:

1. UNLESS INDICATED OTHERWISE, THE ARCHITECT SHALL SELECT THE FIXTURE COLOR/FINISH FROM THE MANUFACTURER'S FULL RANGE OF STANDARD OPTIONS.
2. UNLESS INDICATED OTHERWISE, ALL EXPOSED METALLIC COMPONENTS TO BE FURNISHED WITH POLISHED CHROME FINISH, INCLUDING FAUCETS, TRAPS, STOPS, PIPING, ETC.
3. UNLESS INDICATED OTHERWISE, ALL EXPOSED PIPING SHALL BE FURNISHED WITH POLISHED CHROME FINISH BRASS ESCUTCHEONS AT ALL WALL/CABINET PENETRATIONS AND FIXTURE CONNECTIONS.

FIXTURE	MANUFACTURER		REMARKS	PIPE SIZE	
WC1 (DWELLING)	PROFLO/ BRASSCRAFT/ BEMIS/	FIXTURE:	PROFLO MODEL PF5112/1401T; WHITE ELONGATED CHINA TOILET, FLOOR MOUNTED, TANK TYPE, 1.6 GPF, 15" RIM HEIGHT, 2" GLAZED TRAPWAY. PROVIDE FLOOR BOLTS, WAX RING, BOLT COVERS. CHROME METAL SIDE MOUNTED TRIP LEVER.	1/2"	---
		STOP(S):	BRASSCRAFT MODEL KTCR19BDLM; 1/2" X 3/8" CLOSET SUPPLY KIT, CHROME PLATED QUARTER-TURN BRASS BALL STOP, BRAIDED STAINLESS STEEL RISER.		
		SEAT:	BEMIS MODEL NO. 170, CLOSED FRONT WITH COVER, ELONGATED INJECTION MOLDED SOLID PLASTIC, MOLDED-IN BUMPERS, NON-CORROSIVE NUTS AND BOLTS, WHITE		
WC2 (DWELLING ADA ACCESSIBLE)	PROFLO/ BRASSCRAFT/ BEMIS/	FIXTURE:	PROFLO MODEL PF5112/1403T; WHITE ELONGATED CHINA TOILET, FLOOR MOUNTED, TANK TYPE, 1.6 GPF, 17" RIM HEIGHT, 2" GLAZED TRAPWAY. PROVIDE FLOOR BOLTS, WAX RING, BOLT COVERS. CHROME METAL SIDE MOUNTED TRIP LEVER. HANDLE ON WIDE SIDE OF ROOM.	1"	---
		STOP(S):	BRASSCRAFT MODEL KTCR19BDLM; 1/2" X 3/8" CLOSET SUPPLY KIT, CHROME PLATED QUARTER-TURN BRASS BALL STOP, BRAIDED STAINLESS STEEL RISER.		
		SEAT:	BEMIS MODEL NO. 170, CLOSED FRONT WITH COVER, ELONGATED INJECTION MOLDED SOLID PLASTIC, MOLDED-IN BUMPERS, NON-CORROSIVE NUTS AND BOLTS, WHITE		
			FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS		
WC3 (CLUBHOUSE ADA ACCESSIBLE)	KOHLER/ McGUIRE/ BEMIS/	FIXTURE:	KOHLER HIGHCLIFF ULTRA K-96058-SS-0; FLOOR MOUNT FLUSHOMETER TOILET, ELONGATED BOWL, 1.6 GPF, 16-5/8" RIM HEIGHT, 1-1/2" TOP SPUD, VITREOUS CHINA, 2-1/8" GLAZED TRAPWAY, ANTIMICROBIAL FINISH.	1"	---
		CONTROLS:	SLOAN REGAL 111-1.6-XL; EXPOSED WATER CLOSET FLUSHOMETER, 1.6 GPF, 1" SCREWDRIVER BAK-CHECK STOP, VANDAL RESISTANT STOP CAP.		
		SEAT:	BEMIS 1655SSCT; COMMERCIAL EXTRA HEAVY-DUTY WHITE PLASTIC TOILET SEAT W/ SELF SUSTAINING CHECK HINGES, OPEN FRONT LESS COVER.		
			FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS		
L1 (DWELLING ADA ACCESSIBLE)	PROFLO/ BRIZO/ McGUIRE/ BRASSCRAFT/	FIXTURE:	PROFLO NORRIS PF1812UWH; UNDERMOUNT RECTANGULAR BATHROOM SINK, WHITE VITREOUS CHINA, FRONT OVERFLOW DRAIN, 21" X 14-1/2 NOMINAL OVERALL SIZE, 5-1/4" DEEP BOWL.	1/2"	1/2"
		CONTROLS:	PROFLO PFWSC3006; DECK-MOUNT SINGLE-HANDLE CENTERSET BATHROOM FAUCET, POLISHED CHROME FINISH, 2-HOLE MOUNTING, 1.2 GPM MAXIMUM FLOW RATE.		
		DRAIN:	BRIZO DRP72414PC; PUSH BUTTON DRAIN WITH OVERFLOW HOLES, CHROME PLATED BRASS, TAILPIECE.		
		TRAP:	McGUIRE MODEL 8902; 1 1/4"x1 1/2" 17 GA. P-TRAP, CHROME PLATED.		
		STOP(S):	BRASSCRAFT MODEL KTCR19; 1/2" X 3/8" CHROME PLATED QUARTER-TURN BRASS BALL STOPS W/BRAIDED STAINLESS STEEL RISERS.		
			FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS		
L2 (CLUBHOUSE ADA ACCESSIBLE)	KOHLER/ SLOAN/ McGUIRE/ ZURN/	FIXTURE:	KOHLER SOHO K-2084-N-0; WALL-MOUNT BATHROOM SINK, WHITE VITREOUS CHINA, SINGLE FAUCET HOLE, OVERFLOW DRAIN, 20" X 18" NOMINAL OVERALL SIZE, CONCEALED ARM INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.	1/2"	1/2"
		CONTROLS:	KOHLER SIMPLICE K-27389-4K; DECK-MOUNT SINGLE-HANDLE BATHROOM FAUCET, POLISHED CHROME FINISH, SINGLE HOLE MOUNTING, 1.0 GPM MAXIMUM FLOW RATE.		
		TW MIXER:	PROVIDE THERMOSTATIC MIXER (TMV-1) ON FAUCET SUPPLIES. SET OUTLET NOT TO EXCEED 110°F.		
		DRAIN:	McGUIRE 155A; CHROME PLATED CAST BRASS OPEN GRID P.O. PLUG W/ 17 GA. 1-1/4" X 6" BRASS TAILPIECE.		
		TRAP:	McGUIRE 8912CBECO; 1 1/4" X 1 1/2" 17 GA. P-TRAP W/ CLEANOUT PLUG, CHROME PLATED		
		STOP(S):	McGUIRE LFBV2165; 1/2" I.P.S. X 3/8" O.D. LAVATORY SUPPLY KIT, QUARTER-TURN BRASS BALL VALVES, COPPER FLEX TUBE RISERS, ALL CHROME PLATED		
		CARRIER:	ZURN Z1231EZ		
S1 (DWELLING)	PROFLO/ McGUIRE/ BRASSCRAFT/ MOEN/	FIXTURE:	PROFLO PLOMOSA PFUC207A; UNDERMOUNT STAINLESS STEEL DOUBLE BOWL KITCHEN SINK, 18 GAUGE TYPE 304 STAINLESS STEEL, 32-1/4" X 18-1/2" OVERALL, 14-5/8" X 16-5/8" X 9" DP BOWLS, 3-1/2" CENTER REAR DRAIN OPENINGS.	1/2"	1/2"
		CONTROLS:	PROFLO PFXC3101CP; DECK MOUNTED, 3-HOLE, SINGLE HANDLE, HOT AND COLD MIXING FAUCET, CERAMIC DISC CARTRIDGE, 1.5 GPM FLOW RATE, CHROME FINISH.		
		TRAP:	McGUIRE MODEL 8912CBECO; 1-1/2" x 1-1/2" 17 GA. P-TRAP, CLEANOUT, CHROME PLATED.		
		STOP(S):	BRASSCRAFT MODEL KTCR19; 1/2" X 3/8" CHROME PLATED QUARTER-TURN BRASS BALL STOPS W/BRAIDED STAINLESS STEEL RISERS.		
		DISPOSER:	MOEN MODEL GXP33C, CONTINUOUS FEED, 1/3 HP MOTOR, GALVANIZED STEEL GRINDING ELEMENTS, PRE-INSTALLED POWER CORD, INCLUDE MODEL ARC-4200-CHSRS AIR SWITCH W/CONTROLLER & CHROME FINISH. 1 YEAR PARTS AND IN-HOME SERVICE WARRANTY.		
S2 (DWELLING ADA ACCESSIBLE)	PROFLO/ McGUIRE/ BRASSCRAFT/ MOEN/	FIXTURE:	PROFLO PLOMOSA PFUC217TA55; UNDERMOUNT STAINLESS STEEL DOUBLE BOWL KITCHEN SINK, 18 GAUGE TYPE 304 STAINLESS STEEL, 31" X 18" OVERALL, 14" X 16" X 5-1/4" DP BOWLS, 3-1/2" CENTER REAR DRAIN OPENINGS.	1/2"	1/2"
		CONTROLS:	PROFLO PFXC3101CP; DECK MOUNTED, 3-HOLE, SINGLE HANDLE, HOT AND COLD MIXING FAUCET, CERAMIC DISC CARTRIDGE, 1.5 GPM FLOW RATE, CHROME FINISH.		
		TRAP:	McGUIRE MODEL 8912CBECO; 1-1/2" x 1-1/2" 17 GA. P-TRAP, CLEANOUT, CHROME PLATED.		
		STOP(S):	BRASSCRAFT MODEL KTCR19; 1/2" X 3/8" CHROME PLATED QUARTER-TURN BRASS BALL STOPS W/BRAIDED STAINLESS STEEL RISERS.		
		DISPOSER:	MOEN MODEL GXP33C, CONTINUOUS FEED, 1/3 HP MOTOR, GALVANIZED STEEL GRINDING ELEMENTS, PRE-INSTALLED POWER CORD, INCLUDE MODEL ARC-4200-CHSRS AIR SWITCH W/CONTROLLER & CHROME FINISH. 1 YEAR PARTS AND IN-HOME SERVICE WARRANTY.		
			FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS		
S3 (CLUBHOUSE ADA ACCESSIBLE)	KOHLER/ McGUIRE/	FIXTURE:	KOHLER MODEL K-25939; "VAULT" 18 GAUGE TYPE 304 STAINLESS STEEL SINGLE BOWL UNDERMOUNT SINK, 30-1/4" X 16-9/16" X 5-1/2" DP BOWL, 3-1/2" REAR CENTER DRAIN, CUTOUT TEMPLATE, REQUIRES 36" WIDE MIN. BASE CABINET.	1/2"	1/2"
		CONTROLS:	KOHLER RIVAL K-30469-4N; DECK-MOUNT SINGLE-HOLE SINGLE-HANDLE PULL-DOWN KITCHEN FAUCET, POLISHED CHROME FINISH, SINGLE HOLE MOUNTING, 1.5 GPM MAXIMUM FLOW RATE.		
		DRAIN:	KOHLER MODEL K-8801; 3-1/2" DRAIN, SOLID BRASS BODY & TAILPIECE W/ BASKET STRAINER, VIBRANT STAINLESS FINISH		
		TRAP:	McGUIRE MODEL 8912CBECO; 1-1/2" X 1-1/2" 17 GA. P-TRAP, CHROME PLATED.		
		STOP(S):	McGUIRE MODEL LFBV2165; 1/2" I.P.S. X 3/8" O.D. SUPPLY KIT, QUARTER-TURN BRASS BALL VALVES, COPPER FLEX TUBE RISERS, ALL CHROME PLATED.		
		DISPOSER:	INSINKERATOR CONTRACTOR 333; CONTINUOUS FEED WASTE DISPOSAL WITH FACTORY INSTALLED POWER CORD, MANUAL RESET, STAINLESS STEEL GRIND COMPONENTS, 3/4 HP, 120 VOLT, 9.5 AMP HEAVY DUTY MOTOR		
			FIXTURE ASSEMBLY TO COMPLY WITH HANDICAP ACCESSIBLE REQUIREMENTS		
SH1	CLARION/ PROFLO/	BASE:	CLARION MODEL RE6036NS; ALCOVE SHOWER, 1-PIECE WHITE ACRYLIC, SLIP RESISTANT FLOOR, CENTER DRAIN, MOLDED SOAP LEDGES, 7" THRESHOLD. CERTIFIED TO MEET CSA B45.5/ IAPMO Z124 STANDARD.	1/2"	1/2"
		TRIM:	PROFLO PF7610GCP; SINGLE-HANDLE SHOWER TIM KIT, CHROME METAL WALL ESCUTCHEON, BRASS SHOWER ARM & FLANGE, 1.75 GPM SINGLE FUNCTION SHOWERHEAD, ALL CHROME PLATED FINISH.		
		CONTROLS:	PROFLO PF4001: PRESSURE BALANCING SHOWER VALVE WITH SHOWER OUTLET, INTEGRAL STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LABELED. 1/2" IPS CONNECTIONS, VOLUME CONTROL, CHROME FINISH. SET TEMPERATURE LIMIT AT 120 DEGREES F.		
BT1	CLARION/ PROFLO/	FIXTURE:	CLARION MODEL TS6036L (LEFT-HAND DRAIN)/TS6036R (RIGHT-HAND DRAIN); 60"x36"x74-1/4" 1-PIECE ALCOVE TUB SHOWER, WHITE ACRYLIC, SLIP RESISTANT FLOOR, ABOVE FLOOR ROUGH-IN, 21" APRON, CONTRACTOR TO CONFIRM QUANTITY OF LEFT OR RIGHT HAND DRAIN ORIENTATIONS. CERTIFIED TO CSA B45.5/IAPMO Z124 STANDARD.	1/2"	1/2"
		TRIM:	PROFLO PF7611GCP; SINGLE-HANDLE TUB/SHOWER TIM KIT, CHROME METAL WALL ESCUTCHEON, BRASS SHOWER ARM & FLANGE, 1.75 GPM SINGLE FUNCTION SHOWERHEAD, SLIP-FIT SPOUT, ALL CHROME PLATED FINISH.		
		CONTROLS:	PROFLO PF4001: PRESSURE BALANCING SHOWER VALVE WITH SHOWER OUTLET, INTEGRAL STOPS, ADJUSTABLE TEMPERATURE LIMIT STOP, ASSE 1016 LABELED. 1/2" IPS CONNECTIONS, VOLUME CONTROL, CHROME FINISH. SET TEMPERATURE LIMIT AT 120 DEGREES F.		
BT2 (HANDICAP ACCESSIBLE)	CLARION/	FIXTURE:	CLARION MODEL MP7911L (LEFT-HAND DRAIN)/MP7911R (RIGHT-HAND DRAIN); 60"x33"x77" 1-PIECE ADA COMPLIANT ALCOVE TUB/ SHOWER, WHITE ACRYLIC, SLIP RESISTANT FLOOR, 18" APRON, CONTRACTOR TO CONFIRM LEFT OR RIGHT HAND DRAIN ORIENTATIONS. FURNISH COMPLETE WITH 24" & 18" GRAB BARS, FOLDING SEAT, (2)-SOAP DISHES, ZURN MODEL Z7300-SS-MT ASSE 1016 COMPLIANT PRESSURE-BALANCING MIXING VALVE W/INTEGRAL CHECK STOPS & ADJUSTABLE LIMIT STOP SET AT 120° F., ADA COMPLIANT HANDHELD SHOWER W/60" HOSE, VACUUM BREAKER, 30" GLIDE BAR & SUPPLY MOUNT, CURTAIN ROD, CURTAIN, BRASS DRAIN AND ZURN MODEL Z7000-T4 TUB SPOUT W/PULL-UP DIVERTER. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING LOCATIONS. MEETS THE REQUIREMENTS OF ADA (2010 STD), ICC/ANSI A117.1- 2017, ABA OR UFAS. COMPLIES WITH NAHB, HUD UM-73A, ANSI-Z124.1.2, AND FHA-SAFE HARBOR.	1/2"	1/2"
MS1 (CLUB HOUSE)	FIAT/ T&S BRASS/	FIXTURE:	FIAT MODEL NO. MSB-2424; MOLDED STONE WITH INTEGRAL DRAIN AND GRID STRAINER.	1/2"	1/2"
		CONTROLS:	T&S BRASS MODEL B-0665-BSTP; 8" WALL MOUNT FAUCET WITH INTEGRAL SERVICE STOPS, 1/4-TURN CERAMIC CARTRIDGES W/INTEGRAL CHECK VALVES, 6" SPOUT W/VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, PAIL HOOK AND WALL BRACE		
		OTHER:	FIAT MODEL NO. E-77-AA; VINYL BUMPER GUARDS; FIAT MODEL NO. MSG-2424; STAINLESS STEEL WALL GUARDS FIAT MODEL NO. 889-CC; STAINLESS STEEL MOP HANGER		

PLUMBING LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED

SYMBOL	DESCRIPTION
—DWS—	DOMESTIC WATER SERVICE (BEL. FLR.)
—FWS—	FIRE WATER SERVICE (BEL. FLR.)
—SAN—	SANITARY (ABV. FLR.)
---SAN---	SANITARY (BEL. FLR.)
—V—	SANITARY VENT
—IND—	INDIRECT DRAIN WASTE (ABV. FLR.)
---IND---	INDIRECT DRAIN WASTE (BEL. FLR.)
—PSTM—	PRIMARY STORM DRAIN (ABV. FLR.)
---PSTM---	PRIMARY STORM DRAIN (BEL. FLR.)
—SSTM—	SECONDARY STORM DRAIN (ABV. FLR.)
---SSTM---	SECONDARY STORM DRAIN (BEL. FLR.)
—CW—	DOMESTIC COLD WATER
—HW—	DOMESTIC HOT WATER (EQUAL TO & GREATER THAN 110°F.)
—HWR—	DOMESTIC HOT WATER RETURN
—TW—	TEMPERED WATER (BETWEEN 85°F. & 110°F.)
—TP—	TRAP PRIMER SUPPLY LINE
—G—	LOW PRESSURE NATURAL GAS (BETWEEN 7" W.C. TO 14" W.C.)
—MG—	MEDIUM PRESSURE NATURAL GAS (BETWEEN 1 PSI TO 5 PSI)
—SPD—	SUMP PUMP DISCHARGE
—D—	DRAIN
—(E)—	EXISTING WORK TO REMAIN
	BALL VALVE
	BUTTERFLY VALVE
	OS&Y GATE VALVE
	PLUG VALVE/GAS COCK
	COMB. BALANCE/SHUTOFF VALVE
	PRESSURE REDUCING VALVE
	SOLENOID VALVE
	CHECK VALVE
	Y-TYPE STRAINER

SYMBOL	DESCRIPTION
	PIPE FLANGES
	PIPE UNION
	PETE'S PLUG
	DIRECTION OF FLOW
	HOSE BIBB/WALL HYDRANT
	PIPE DOWN
	PIPE UP
	PIPE BRANCH TOP CONN.
	PIPE BRANCH BOTTOM CONN.
	PIPE CAP (OR PLUG)
	THERMOMETER
	PRESSURE GAUGE
	P-TRAP (PLAN VIEW)
CO	WALL OR EXPOSED CLEANOUT
CO	FLOOR OR GRADE CLEANOUT
VTR	VENT-THRU-ROOF
FD	FLOOR DRAIN
FS	FLOOR SINK
	CURB BOX & VALVE
	JANITOR OR SHOWER FAUCET/HEAD LOCATION
	PIPE THRU FLOOR AS SHOWN
	CONNECT TO EXISTING
#	PLAN CODED NOTE NUMBER
#	EQUIPMENT NUMBER
RM#	ROOM NUMBER
A / SHEET	STACK SYMBOL
1 / SHEET	RISER SYMBOL

PLUMBING ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED

ABV.	ABOVE	HTG.	HEATING
A.F.F.	ABOVE FINISHED FLOOR	HTR.	HEATER
A.P.	ACCESS PANEL	INV. ELEV.	INVERT ELEVATION
APPROX.	APPROXIMATELY	INT.	INTERIOR
BEL.	BELOW	J.R.	JANITORS RECEPTOR
BLDG.	BUILDING	K.E.S.	KITCHEN EQUIPMENT SUPPLIER
B.T.	BATH TUB	LAV.	LAVATORY
C.D.	CANOPY DRAIN	M. H.	MANHOLE
CHEM.	CHEMICAL	MFR.	MANUFACTURER
C.I.	CAST IRON	MECH.	MECHANICAL
CLG.	CEILING	N.C.	NORMALLY CLOSED
CONC.	CONCRETE	NRS	NON-RISING STEM
CO.	CLEAN OUT	PE	POLYETHYLENE
CONN.	CONNECT	P.C.	PLUMBING CONTRACTOR
CONT.	CONTINUATION	PLBG.	PLUMBING
CONTR.	CONTRACTOR	PRESS.	PRESSURE
DCDA	DOUBLE CHECK DETECTOR ASSEMBLY	REQD.	REQUIRED
DTL.	DETAIL	R.D.	ROOF DRAIN
DIA.	DIAMETER	RM.	ROOM
D.F.	DRINKING FOUNTAIN	RPZ	REDUCED PRESSURE ZONE
DN.	DOWN	S.D.	SHOWER DRAIN
D.S.	DOWNSPOUT	SDR	STANDARD DIMENSION RATIO
E.C.	ELECTRICAL CONTRACTOR	SH.	SHOWER
ELEC.	ELECTRICAL	S.I.	SURFACE INLET
E.W.C.	ELECTRIC WATER COOLER	S.P.D.	STANDARD PROCTOR DENSITY
EX.	EXISTING	S.S.	SERVICE SINK
EXT.	EXTERIOR	S.U.C.	SITE UTILITY CONTRACTOR
FT. HD.	FEET OF HEAD	T.P.	TRAP PRIMER
FLR.	FLOOR	T.S.	TRAP SEAL
F.D.	FLOOR DRAIN	TYP.	TYPICAL
F.O.G.	FATS, OILS, & GREASE	UR.	URINAL
F.S.	FLOOR SINK	U.N.O.	UNLESS NOTED OTHERWISE
FURN.	FURNISH	VAC.	VACUUM
F.V.	FLUSH VALVE	V.S.P.	VITRIFIED SEWER PIPE
G.C.	GENERAL CONTRACTOR	V.T.R.	VENT THRU ROOF
G.D.	GARBAGE DISPOSER	W.	WASTE
GEN.	GENERAL	W/	WITH
H.B.	HOSE BIBB	WC	WATER CLOSET
H.C.	HEATING CONTRACTOR	W.H.	WALL HYDRANT

PLUMBING PIPING SCHEDULE

PIPING TYPE	DESCRIPTION
DOMESTIC HOT WATER, DOMESTIC COLD WATER AND TRAP PRIMER SUPPLY	OUTSIDE OF DWELLING UNITS, UPSTREAM OF TENANT ISOLATION VALVE; TYPE L HARD TEMPER COPPER PIPE WITH WROT COPPER SOCKET SOLDER FITTINGS. SOLDER MATERIALS TO BE "LEAD FREE". INSIDE DWELLING UNITS, DOWNSTREAM OF TENANT ISOLATION VALVE; EITHER COPPER PIPE AND FITTINGS AS PREVIOUSLY SPECIFIED, OR CROSSLINKED POLYETHYLENE PEX -A TUBING AND PEX-A COLD EXPANSION TYPE FITTINGS. NOTE THAT CPVC AND PEX PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS. PIPING TO BE RATED FOR 125 PSIG WORKING PRESSURE AT 140 DEGREES F. MAXIMUM WATER TEMPERATURE. ALL COPPER AND PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN FRAMED STRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN PIPING IS WITHIN 1-1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.
SANITARY WASTE, SANITARY VENT AND STORM DRAIN	OUTSIDE OF DWELLING UNITS; STANDARD WEIGHT CAST IRON DWV NO-HUB PIPE WITH CAST IRON DWV NO-HUB FITTINGS AND NEOPRENE GASKET STAINLESS STEEL BAND COUPLINGS, OR SCHEDULE 40 PVC DWV PIPE WITH PVC DWV SOCKET SOLVENT FITT-INGS. INSIDE OF DWELLING UNITS; CAST IRON ONLY AS PREVIOUSLY SPECIFIED. THE FOLLOWING EXCEPTIONS ONLY MAY BE PVC AS PREVIOUSLY SPECIFIED: A. SANITARY VENT PIPING B. SECONDARY/EMERGENCY STORM DRAIN PIPING C. INDIVIDUAL PLUMBING FIXTURE ABOVE FLOOR SANITARY DRAIN PIPING D. SANITARY PIPING FOR A MULTI-LEVEL TOWNHOME OR PENTHOUSE COMPLETELY WITHIN THE STRUCTURAL ENCLOSURE OF THE UNIT SERVED. THIS DOES NOT APPLY TO PIPING IN COMMON WALL STRUCTURE WITH OR CEILING SPACE ABOVE ANOTHER DWELLING UNIT. E. SANITARY PIPING IN SUB-SLAB SPACES BELOW THE TOWNHOME UNITS. NOTE THAT PVC PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS. NOTE THAT PVC PIPING MAY NOT BE INSTALLED INSIDE WALLS, CHASES OR OTHER STRUCTURES DIRECTLY ADJACENT TO DWELLING UNITS, UNLESS THESE STRUCTURES ARE IDENTIFIED AS ACOUSTICALLY PROTECTED BY THE ARCHITECTURAL DOCUMENTATION. ALL PLASTIC PIPING RUN THROUGH STUDS OR OTHER CONSTRUCTION ELEMENTS IN FRAMED STRUCTURES SHALL BE PROVIDED WITH PROTECTIVE STEEL STRIKER PLATES WHEN PIPING IS WITHIN 1-1/2" FROM THE EDGE OF THE FRAMING MEMBER. THE STRIKER PLATES SHALL COMPLY WITH OHIO PLUMBING CODE REQUIREMENTS.
SUMP PUMP DISCHARGE ("PD" PLAN DESIGNATION)	PIPING AS SPECIFIED FOR DOMESTIC COLD WATER OR SCHEDULE 40 GALVANIZED STEEL PIPE WITH THREADED IRON FITTINGS. NOTE THAT CPVC AND PVC PIPING SHALL NOT BE USED IN ELEVATOR SHAFTS AND SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS. PIPING TO BE RATED FOR 125 PSIG WORKING PRESSURE AT 140 DEGREES F. MAXIMUM WATER TEMPERATURE.
SMALL DIAMETER (1/2" TO 1" SIZE, INCLUSIVE) DRAIN ("D" PLAN DESIGNATION)	PIPING AS SPECIFIED FOR DRAIN PUMP DISCHARGE OR SCHEDULE 40 PVC WITH SOCKET SOLVENT WELD PVC PRESSURE FITTINGS. NOTE THAT PLASTIC PIPING MAY NOT BE USED IN SPACES DESIGNATED AS "AIR PLENUMS" BY THE HVAC AND/OR ARCHITECTURAL PLANS.

PLUMBING NOTES

A. UNLESS DIRECTED OTHERWISE, WHERE CONCEALING/FINISH STRUCTURE IS PROVIDED UNDER SEPARATE CONTRACT, ALL WORK IN THE PLUMBING CONTRACT NOT SPECFICALLY INTENDED OR IDENTIFIED FOR EXPOSED/VISIBLE INSTALLATION SHALL BE INSTALLED WITHIN THE CONCEALING STRUCTURE.

B. ALL PIPING SHOWN IS ABOVE CEILING IN AREAS WITH DROPPED CEILINGS, OR AT BOTTOM OF OVERHEAD SUPPORT STRUCTURE IN EXPOSED STRUCTURE AREAS, UNLESS INDICATED OTHERWISE.

C. THE PLUMBING CONTRACTOR IS TO SECURE AND VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE PROJECT IN ADVANCE OF WORK (INCLUDING FABRICATION).

D. THE PLUMBING CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC.. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIREMENTS PERTAINING TO SAME.

E. LAYOUT AND INSTALLATON OF PLUMBING CONTRACT PIPING, EQUIPMENT, ITEMS AND ELEMENTS INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXACT LOCATION, ROUTING AND INSTALLATON TO BE COORDINATED WITH BUILDING STRUCTURE AND ALL OTHER WORK PROVIDED UNDER SEPARATE CONTRACT.

F. COORDINATE EXACT LOCATION AND INSTALLATON OF ALL PLUMBING UTILITIES REQUIRED AND PROVIDED FOR WORK UNDER SEPARATE CONTRACT WITH THE APPROPRIATE CONTRACTOR(S) IN ADVANCE OF WORK. THIS INCLUDES SUPPLY AND DRAIN ELEMENTS, FOR DIRECT (PIPED) AND/OR INDIRECT (FLOOR/HUB DRAIN, AIR GAP, ETC.) CONNECTION/SERVICE.

G. RUN ALL WATER AND LINES LEVEL.

H. ROUGH IN ALL PIPING (SUPPLY, RETURN, WASTE, DRAIN, ETC.) FOR FIXTURES/EQUIPMENT INSTALLATION THRU OR ON FACE OF WALL (AS APPLICABLE), AND TERMINATE WITH SHORT PIPE NIPPLE AND CAP. ROUGH INS AT EXTERIOR WALLS (IF ANY) TO BE ON "WARM" SIDE OF INSULATION ASSEMBLY, AS REQUIRED FOR NON-FREEZE INSTALLATION.

I. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE STATE OF OHIO BUILDING CODE, INCLUDING APPLICABLE PLUMBING, MECHANICAL AND HANDICAP ACCESSIBILITY PROVISIONS.

J. PROVIDE CLEANOUTS AS FOLLOWS:
   a. AT THE BASE OF ALL SANITARY STACKS.
   b. IN ALL HORIZONTAL SANITARY PIPING AT INTERVALS NOT TO EXCEED 100 L.F. IN LENGTH.
   c. AT EACH CHANGE OF DIRECTION BY SANITARY PIPING BELOW GRADE OR AT THE LOWEST POINT OF THE HORIZONTAL DRAINAGE SYSTEM GREATER THAN 45 DEGREES, UNLESS ANOTHER CLEANOUT IS WITHIN 40 FT. DEVELOPED LENGTH.

K. UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN ACCESSIBLE LOCATIONS.

L. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF CASEWORK, EQUIPMENT AND OTHER ITEMS PROVIDED UNDER SEPARATE CONTRACT, INCLUDING EXACT LOCATIONS AND UTILITY CONNECTION REQUIREMENTS. COORDINATE PLUMBING UTILITY WORK AS REQUIRED IN ADVANCE, INCLUDING PLACEMENT OF FITTINGS, ACCESSORIES, APPURTENANCES, DRAINS, ETC.

M. VERIFY THE EXACT LOCATION AND INSTALLATION REQUIREMENTS FOR ALL DRAINS WITH THE ARCHITECTURAL AND STRUCTURAL DOCUMENTATION FOR PROPER PLACEMENT IN RESPECT TO SLOPES AND STRUCTURE AT EACH DRAIN. COORDINATE INSTALLTION WITH THE APPROPRIATE CONTRACTOR. FINAL INSTALLATION AND LOCATION SUBJECT TO APPROVAL.

N. NO LIQUID TRANSMISSION PLUMBING UTILITY PIPING IS TO RUN ABOVE ELECTRIC SWITCHGEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING CLEARANCE AREAS 42" IN FRONT AND MINIMUM 30" WIDE). CONFIRM LOCATIONS OF NEW ELECTRICAL EQUIPMENT FROM ELECTRICAL CONTRACT DOCUMENTATION, AND MAKE ADJUSTMENTS NECESSARY TO REROUTE PIPING FOR ACTUAL INSTALLATION.

PLUMBING GENERAL NOTES

A. ALL SUPPLY WATER LINES, EXPOSED OR CONCEALED, SHALL BE INSULATED. ENSURE THAT THIS INSULATION MATERIAL IS PLENUM RATED.

B. THE CONSTRUCTION MANAGER SHALL ENSURE THAT THE PLUMBING CONTRACTOR DOES NOT LEAVE ANY UNCAPPED OR OPEN SUPPLY, WASTE, DRAIN, OR VENT LINES.

C. ALL CORE DRILLING/SAW CUTTING SHALL BE SCHEDULED THROUGH THE CONSTRUCTION MANAGER.

D. WHEN CONSTRUCTION IS COMPLETED, ALL SANITARY LINES SHALL BE FLUSHED, CLEANED AND CAMERA INSPECTED TO CONFIRM PROPER OPERATING CONDITION. WRITTEN NOTIFICATION, INDICATING DATE AND TIME, SHALL BE PROVIDED TO THE LANDLORD BEFORE THE BARRICADE IS REMOVED.

E. ENSURE THAT ALL SANITARY CLEANOUTS ARE EXPOSED AND REMAIN ACCESSIBLE. SINCE MANY TRADES CAN AFFECT THIS REQUIREMENT, THE CONSTRUCTION MANAGER SHALL ENSURE THAT ALL SUBCONTRACTORS ARE AWARE OF ANY EXISTING CLEANOUTS. COORDINATE LOCATIONS WITH THE LANDLORD AFTER DEMOLITION.

NATURAL GAS NOTES

A. PROVIDE A MANUAL SHUTOFF VALVE, UNION AND 6" LONG DIRT LEG AT POINT OF CONNECTION TO HVAC EQUIPMENT. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR IN ADVANCE OF WORK. SEE DETAILS AND PIPING DIAGRAMS PROVIDED FOR ADDITIONAL INFORMATION AND SCOPE OF WORK.

B. ALL METALLIC PIPING INSTALLED AT BUILDING EXTERIOR TO BE PROVIDED WITH FIELD APPLIED PAINTED FINISH; (1) UNDERCOAT AND (1) EXTERIOR COAT WITH LISTED/APPROVED WEATHER-RESISTANT EPOXY PAINT.

C. FIELD VERIFY LOCATION OF GAS CONNECTION ON ACTUAL HVAC UNIT PURCHASED AND MAKE NECESSARY ADJUSTMENTS AT NO ADDITIONAL COST. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR IN ADVANCE OF WORK.

D. MAKE FINAL CONNECTION TO ALL GAS EQUIPMENT. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR IN ADVANCE OF WORK.

E. ALL GAS PIPING ABOVE THE CEILING WITHIN RETURN AIR PLENUM SHALL HAVE WELDED JOINTS.

FLOW TEST INFORMATION

TEST NO: 3688 DATE: 11/06/2024 TIME: 11:35:00 AM

FLOW HYDRANT LOCATION:	1E OF SCHWARTZ RD ON REFUGEE RD
FLOW HYDRANT LOCATION:	1W OF SCHWARTZ RD ON REFUGEE RD
PRESS. HYDRANT LOCATION:	2E OF SCHWARTZ RD ON REFUGEE RD
PRESS. HYDRANT ID:	0143A04
STATIC PRESSURE:	75 PSI
RESIDUAL PRESSURE:	71 PSI
PITOT 1:	37 PSI
PITOT 2:	14 PSI
OUTLET:	4" DIFF
FLOW (GPM):	3870
FLOW @ 20 PSI (GPM):	>5000
WATER DISTRICT:	PARSONS
PIPE SIZE:	24"
ELEVATION:	760'
HYDRANT OWNER:	COLUMBUS
COEFFICIENT:	0.77
CH:	950'
HGL:	933'

PLEASE REMEMBER WHEN REVIEWING THE RESULTS OF THE FLOW TEST THAT VARYING FACTORS COULD CHANGE THE RESULTS, I.E., HOURLY FLUCTUATIONS IN WATER LEVELS AT THE CITY OF COLUMBUS WATER TANKS, CHANGES IN CONSUMER DEMANDS IN THE AREA OF THE FLOW TEST, AND SEASONAL CHANGES IN WATER PLANT DISCHARGE PRESSURES. THE NET EFFECT OF THESE CHANGES WILL NORMALLY SHIFT STATIC PRESSURES BY NO MORE THAN FIVE (5) TO FIFTEEN (15) PSI.

P301-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING
NOTES, SCHEDULES & LEGENDS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

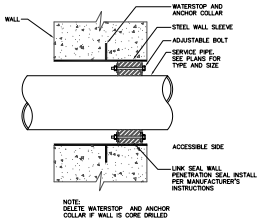
23446

P301

CD PROGRESS SET

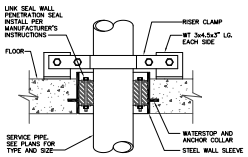
© 2024 MOODY NOLAN INC.

© 2024 MOODY NOLAN INC.



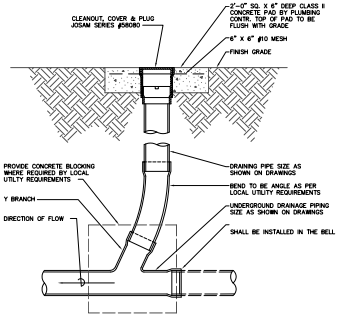
WATERTIGHT WALL PENETRATION FOR PIPES

NO SCALE



WATERTIGHT FLOOR PENETRATION FOR PIPES

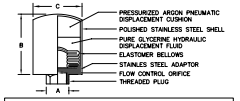
NO SCALE



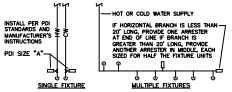
EXTERIOR CLEANOUT DETAIL

NO SCALE

WATER HAMMER ARRESTOR SCHEDULE				
TYPE (WHA)	DIMENSION 'A' DIA	DIMENSION 'B'	DIMENSION 'C' DIA	FIXTURE UNIT CAPACITY
'A'	3/4"	4-1/2"	3-1/4"	1-11
'B'	1"	5-1/4"	3-1/4"	12-32
'C'	1"	6"	3-1/4"	33-60
'D'	1"	6-3/4"	3-1/4"	61-113
'E'	1"	6-3/4"	5"	114-154
'F'	1"	7-3/4"	5"	155-330



WATER HAMMER ARRESTER SHALL BE SIZED AND PLACED THROUGHOUT PLUMBING WATER SYSTEMS AS REQUIRED PER PLUMBING & DRAINAGE INSTITUTE'S STANDARD PDI-WH201, WATER HAMMER ARRESTERS.



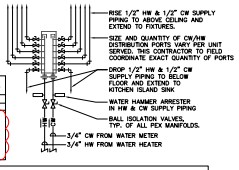
PDI SIZE	PIPE SIZE	FIXTURE UNIT LOAD
A	1/2"	1-11
B	3/4"	12-32
C	1"	33-60
D	1-1/4"	61-113
E	1-1/2"	114-154

FIXTURE UNIT TABULATION (WSFU)		
FIXTURE	COLD	HOT
TANK WATER CLOSET	5	-
F.V. WATER CLOSET	10	-
F.V. URINAL	5	-
LAVATORY	1.5	1.5
KITCHEN SINK	1.5	1.5
3-COMP SINK	3	3
MOP BASIN	2.25	2.25

PC TO PROVIDE WATER HAMMER ARRESTERS BY SIOUX CHIEF, PRECISION PLUMBING PRODUCTS, WATTS, ZURN OR APPROVED EQUIVALENT WITH PISTON AND O-RING CONSTRUCTION, HAVING PDI #WH-201, ASSE #1010 AND ANSI #A112.26.1M CERTIFICATION. INSTALL IN HORIZONTAL OR VERTICAL POSITION, BUT NEVER UPSIDE DOWN. INSTALL IN LINE WITH WATER FLOW DIRECTION IF POSSIBLE. SIZE THE UNITS AS SHOWN ON THE DRAWINGS AND/OR PER THE TABLES SHOWN ABOVE.

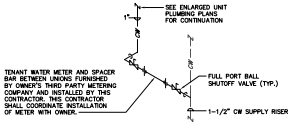
WATER HAMMER ARRESTER DIAGRAM

FIXTURE SUPPLY SIZES	
FIXTURE	PEX PIPE SIZE HW	CW
WATER CLOSET	1/2"	1/2"
LAVATORY	1/2"	1/2"
TUB/SHOWER	1/2"	1/2"
SHOWER	1/2"	1/2"
KITCHEN SINK	1/2"	1/2"
LAUNDRY WASHER	1/2"	1/2"
REFRIGERATOR	-	1/2"



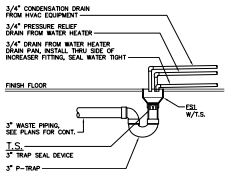
NOTES:
1. FOR ABOVE GROUND PIPING WITHIN DWELLING UNITS UP TO AND INCLUDING 3/4 IN SIZE, CROSSLINKED POLYETHYLENE PEX-A TUBING AS MANUFACTURED BY UPONOR OR EQUAL CONFORMING TO ASTM F876 AND ASTM F877 MAY BE PROVIDED AT THE CONTRACTOR'S OPTION.
2. PEX MANIFOLDS SHALL BE A TYPE L COPPER BODY WITH BRASS PROPEX OUTLET CONNECTIONS. ALL MANIFOLDS TO BE PROVIDED WITH INLET CONNECTIONS CONFORMING TO ABOVE FIXTURE SUPPLY SIZES TABLE. EXACT QUANTITY OF COLD AND HOT WATER OUTLET PORTS TO BE COORDINATED IN-FIELD IN A ADVANCE OF WORK BY THIS CONTRACTOR.

TYPICAL PEX MANIFOLD PIPING DIAGRAM



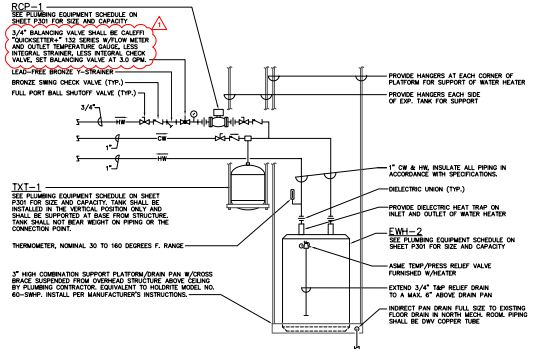
INSTALLATION NOTES:
1. INSTALL METERS ON REAR WALL OF UTILITY CLOSET AT A MINIMUM 24" ABOVE FINISH FLOOR.
2. INSTALL METERS TO ALLOW FOR READY ACCESS FROM THE FRONT OF THE UTILITY CLOSET.
3. INSTALL METERS WITH A MINIMUM 7-1/2" OF STRAIGHT PIPE AT THE INLET AND OUTLET.
4. INSULATE ALL DOMESTIC WATER PIPING IN ACCORDANCE WITH SPECIFICATIONS.

TYPICAL DWELLING UNIT WATER METER DIAGRAM



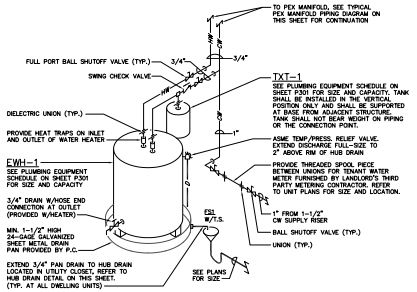
DWELLING UNIT HUB DRAIN DETAIL

NO SCALE (TYPICAL AT UTILITY CLOSETS IN DWELLING UNITS)



INSTALLATION NOTES:
1. INSTALL SUSPENDED SUPPORT PLATFORM/DRIP PAN WITH 1/2" ALL-THREAD SUPPORT RODS TO OVERHEAD STRUCTURE AS HIGH AS POSSIBLE ABOVE CEILING. MINIMUM OF FOUR (4) SUPPORT RODS TO BE PROVIDED.
2. STORAGE OF HOT WATER TO BE MAINTAINED AT A TEMPERATURE NOT TO EXCEED 140°F. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS AND COORDINATED WITH ELECTRICAL CONTRACTOR IN ADVANCE OF ANY WORK.
3. PROVIDE HEAT TRAP FITTINGS ON INLET AND OUTLET CONNECTIONS OF HEATER.
4. INSULATE ALL PIPING IN ACCORDANCE WITH SPECIFICATIONS.

EWH-2; WATER HEATER PIPING DIAGRAM (CLUB HOUSE)



INSTALLATION NOTES:
1. ALL WATER HEATERS INSTALLED ON FLOORS OTHER THAN SLAB ON GRADE OR NON-PERMEABLE CONCRETE SHALL INCLUDE A DRIP PAN PROVIDED BY THE HEATER MANUFACTURER. THE DRIP PAN SHALL BE MIN. 1-1/2" HIGH, AND MIN. 4" LARGER THAN HEATER DIAMETER. PROVIDE A 3/4" SIDE OUTLET WITH FULL SIZE DISCHARGE TO FLOOR DRAIN.
2. INSTALL EACH WATER HEATER IN SUCH A MANNER AS TO PROVIDE ACCESS TO SERVICE COVERS AND DRAIN RELATIVE TO STRUCTURE AND WORK OF OTHER TRADES (FURNACE, ETC.). CONDITIONS TO BE CONFIRMED AT EACH INSTALLATION (VARIES BY TENANT UNIT TYPE & CONFIGURATION).
3. STORAGE OF HOT WATER TO BE MAINTAINED AT A TEMPERATURE NOT TO EXCEED 140°F. INSTALLATION TO BE PER MANUFACTURER'S RECOMMENDATIONS AND COORDINATED WITH ELECTRICAL CONTRACTOR IN ADVANCE OF ANY WORK.

EWH-1; DWELLING UNIT DOMESTIC CW, HW AND WATER HEATER PIPING DIAGRAM

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING DETAILS

P401-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
BJBURNS	BJBURNS	CJANDERSON	24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

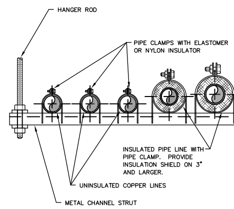
05/01/2025

23446

P401

CD PROGRESS SET

© 2024 MOODY NOLAN INC.

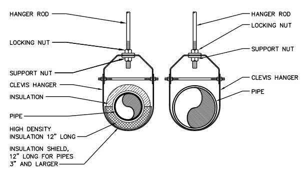


NOTE:

1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. SOIL, WASTE, AND CONDUCTOR PIPES SHALL BE SUPPORTED ON CLEVIS HANGERS.
3. ALL HANGER PARTS SHALL BE HEAVY ZINC CHROMATED.
4. IF USED FOR INSULATED PIPE, SIZE HANGER PROPERLY AND USED INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

TRAPEZE PIPE HANGER DETAIL

NO SCALE



HANGER ROD SCHEDULE	
PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA.
2 1/2" THRU 3"	1/2" DIA.
4" AND 5"	5/8"
6" THRU 8"	3/4"
12"	7/8"

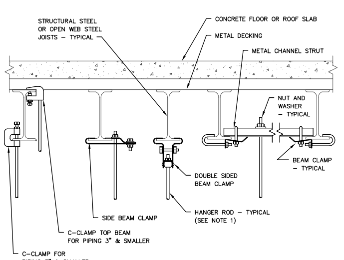
HANGER ROD SPACING	
PIPE SIZE	MAX. ALLOWABLE SPACING
1"	7'
1 1/4"	8'
1 1/2"	9'
2"	10'
2 1/2"	11'
3" THRU 8"	12'

NOTE:

1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. SOIL, WASTE, AND CONDUCTOR PIPES SHALL BE SUPPORTED ON CLEVIS HANGERS.
3. ALL HANGER PARTS SHALL BE HEAVY ZINC CHROMATED.
4. IF USED FOR INSULATED PIPE, SIZE HANGER PROPERLY AND USED INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

PIPE HANGER INSTALLATION DETAIL

NO SCALE



NOTE:

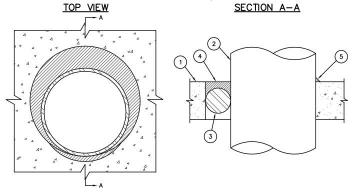
1. REFER TO PIPE HANGER DETAIL FOR HANGER ROD SIZE. FOR CEILING SUSPENDED EQUIPMENT PROVIDE MIN. 3/8" DIA. HANGER ROD (REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS).
2. SOIL, WASTE, AND CONDUCTOR PIPES SHALL BE SUPPORTED ON CLEVIS HANGERS.
3. ALL HANGER PARTS SHALL BE HEAVY ZINC CHROMATED.
4. IF USED FOR INSULATED PIPE, SIZE HANGER PROPERLY AND USED INSULATION SHIELDS FOR COLD LINES AND PROTECTION SADDLES FOR HOT LINES.

TYPICAL METHODS OF SECURING HANGER RODS TO STRUCTURAL STEEL DETAIL

NO SCALE

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

UL/CUL SYSTEM NO. CAJ1154
F RATING = 3–HR
T RATING = 1/4–HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

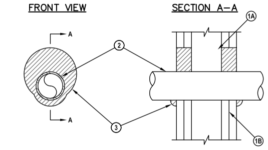


1. CONCRETE FLOOR OR WALL ASSEMBLY (3–HR. FIRE–RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4–1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3–1/4".
3. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

PLASTIC PIPE THROUGH 1–HR. OR 2–HR. GYPSUM WALL ASSEMBLY

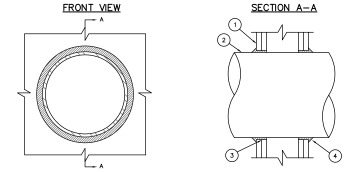
UL/CUL SYSTEM NO. W–L–2377
F RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
T RATINGS – 1 AND 2 HR (SEE ITEMS 1 AND 3)
L – RATING AT AMBIENT – LESS THAT 1 CFM/SQ FT
L – RATING AT 400°F – 4 CFM/SQ FT



1. WALL ASSEMBLY – THE 1 AND 2 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS – WALL FRAMING SHALL CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 2–1/2 IN. WIDE BY 1–3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
   B. GYPSUM BOARD* – THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 3 IN. THE HOURLY F AND T RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT – ONE NONMETALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE AND PERIPHERY OF OPENING SHALL BE MIN OF 0 IN. (POINT CONTACT) TO A MAX 1–1/4 IN. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) FLOWGUARD GOLD® SDR11 CPVC PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE – NOM 2 IN. DIAM (OR SMALLER) BLAZEMASTER® SDR13.5 CPVC PIPE OR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
3. FILL, VOID OR CAVITY MATERIAL* – SEALANT – MIN 5/8 IN. AND 1–1/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL FOR 1 AND 2 HR RATED ASSEMBLIES, RESPECTIVELY. AT POINT CONTACT LOCATION, A MIN 1/2 IN. DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED TO THE WALL/PENETRANT INTERFACE ON BOTH SURFACES OF THE WALL.

METAL PIPE THROUGH 1–HR. OR 2–HR. GYPSUM WALL ASSEMBLY

UL/CUL SYSTEM NO. WL1085
F RATING = 1–HR. OR 2–HR.
T RATING = 0–HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..

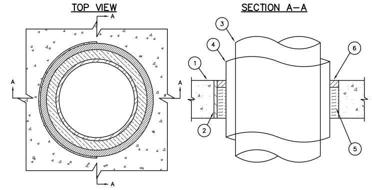


1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1–HR OR 2–HR FIRE–RATING) (2–HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" NOMINAL DIAMTER COPPER PIPE.
   D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 13–1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

INSULATED METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

UL/CUL SYSTEM NO. CAJ5091
F RATING = 2–HR
T RATING = 1–HR
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

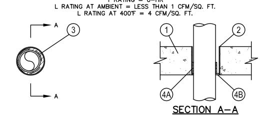


1. CONCRETE FLOOR OR WALL ASSEMBLY (3–HR. FIRE–RATING):
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4–1/2" THICK).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMTER OF OPENING = 20".
2. ANNULAR SPACE = MINIMUM 1/2", MAXIMUM 2–1/4".
3. MINIMUM 1/2" DEPTH HILTI FS–ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL.

PLASTIC PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

UL/CUL SYSTEM NO. CAJ2569
F RATING = 2–HR
T RATING = 0–HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

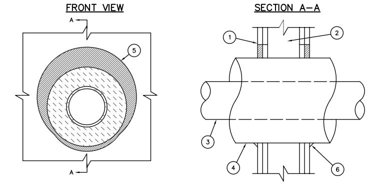


1. FLOOR OR WALL ASSEMBLY —MIN 4–1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100–150 PCF OR 1600–2400 KG/M3) CONCRETE FLOOR OR WALL. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 6 IN. (152 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. STEEL SLEEVE —(OPTIONAL) —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL SLEEVE CAST OR GROUTED INTO FLOOR OR WALL ASSEMBLY, FLUSH WITH FLOOR OR WALL SURFACES OR EXTENDING A MAX OF 3 IN. (76 MM) ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL.
3. THROUGH PENETRANTS —ONE NONMETALLIC PIPE TO BE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. ANNULAR SPACE WITHIN THE FIRESTOP SYSTEM IS DEPENDENT UPON THE MAX DIAM AND TYPE OF PENETRANT USED AS TABULATED IN ITEM 4A. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES MAY BE USED:
   A. POLYVINYL CHLORIDE (PVC) PIPE —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE PVC FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
   B. CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE —NOM 4 IN. DIAM (OR SMALLER) SDR13.5 CPVC FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS.
   C. ACRYLONITRILE BUTADIENE STYRENE (ABS) PIPE —NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID OR CELLULAR CORE ABS FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
4. FIRESTOP SYSTEM —THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
   A. FILL, VOID OR CAVITY MATERIAL* – WRAP STRIP —ONE LAYER OF INTUMESCENT WRAP STRIP IS CONTINUOUSLY WRAPPED AROUND THE PIPE WITH ENDS BUTTED AND HELD IN PLACE WITH INTEGRATED TAPE. WRAP STRIP INSTALLED RECESSED 1/4 IN. (6 MM) FROM BOTTOM SURFACE OF FLOOR OR BOTH WALL SURFACES TO ACCOMMODATE FILL MATERIAL. SIZE OF WRAP STRIP FOR A GIVEN SIZE PENETRANT IS SHOWN IN THE TABLE BELOW.
   B. FILL, VOID OR CAVITY MATERIAL* —MIN 1/4 IN. (6 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

Product Designation	Nom Pipe Size Diam In. (mm)	Max Opening Diam In. (mm)	Annular Space Min In. (mm)	Annular Space Max In. (mm)	Nom Wrap Strip Thick In. (mm)	Nom Wrap Strip Width In. (mm)
CP648-S-1.5" US	1-1/2 (38)	3 (76)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-2" US	2 (51)	3-1/2 (89)	3/16 (5)	9/16 (14)	3/16 (5)	1 (25)
CP648-S-3" US	3 (76)	4 (102)	3/16 (5)	9/16 (14)	3/16 (5)	1-3/4 (44)
CP648-S-4" US	4 (102)	6 (152)	3/8 (10)	1-1/8 (28)	3/8 (10)	1-3/4 (44)

INSULATED METAL PIPE THROUGH 1–HR. OR 2–HR. GYPSUM WALL ASSEMBLY

UL/CUL SYSTEM NO. WL5029
F RATING = 1–HR, AND 2–HR
T RATING = 1/2–HR., 3/4 HR., 1–HR., AND 1–3/4 HR. (SEE U.L. FIRE RESISTANCE DIRECTORY)
L RATING AT AMBIENT = 4 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 1 CFM/SQ. FT.

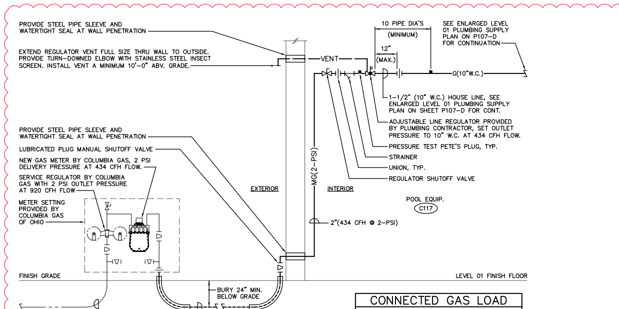


1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1–HR. OR 2–HR. FIRE–RATING) (2–HR. SHOWN).
   B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. (NOT SHOWN), WOOD STUDS TO CONSIST OF NOMINAL 2" x 4" LUMBER. STEEL STUDS TO BE MINIMUM 2–1/2" WIDE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. MAXIMUM 2" THICK GLASS–FIBER PIPE INSULATION.
5. MINIMUM 5/8" DEPTH HILTI FS–ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. MINIMUM 1/2" BEAD HILTI FS–ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 18".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1–7/8".

FIRE STOPPING DETAILS

NO SCALE



CONNECTED GAS LOAD

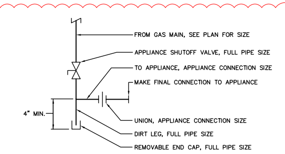
TOTAL CONNECTED LOAD:				
(1) POOL HEATER	@	250 CFH EA.	=	250 CFH
(1) FIREPLACE	@	34 CFH EA.	=	34 CFH
(2) BBQ GRILL	@	75 CFH EA.	=	150 CFH
TOTAL CONNECTED LOAD:				434 CFH
DISTANCE FROM LINE REGULATOR TO FARTHEST APPLIANCE: (BBQ GRILL #2)			=	100'–0"
EQUIVALENT LENGTH OF FITTINGS: 50% OF TOTAL LENGTH			=	50'–0"
TOTAL EQUIVALENT LENGTH			=	150'–0"
TOTAL DESIGN LENGTH			=	150'–0"

(USE 150 FT. FROM 2021 IFGC TABLE 402.4(1) LESS THAN 2 PSI, 0.3"w.c. PRESSURE DROP)

GAS SERVICE NOTE

UNDERGROUND CUSTOMER SERVICE LINE, SERVICE STOP, SERVICE REGULATOR, VALVES, METER SETTING MANIFOLDS, AND METERS ARE FURNISHED AND INSTALLED BY COLUMBIA GAS COMPANY. CONNECT TO OUTLET OF METER AND EXTEND HOUSE PIPING BELOW GRADE TO CLUBHOUSE BUILDING. COORDINATE INSTALLATION OF METER WITH COLUMBIA GAS OF OHIO, CONSTRUCTION MANAGER AND THE OWNER.

GAS SERVICE ENTRANCE RISER DIAGRAM



NATURAL GAS APPLIANCE CONNECTION DETAIL

NO SCALE

P402–24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B.BURNS	B.BURNS	C.ANDERSON	24217

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

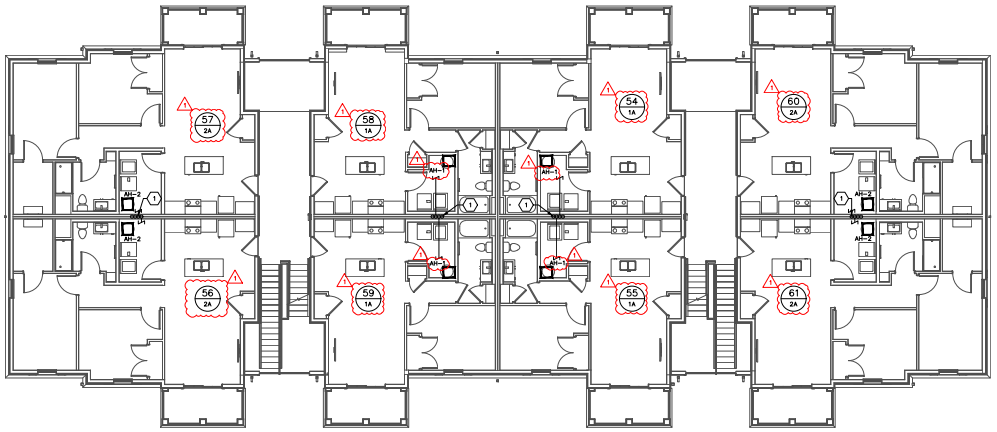
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
PLUMBING DETAILS

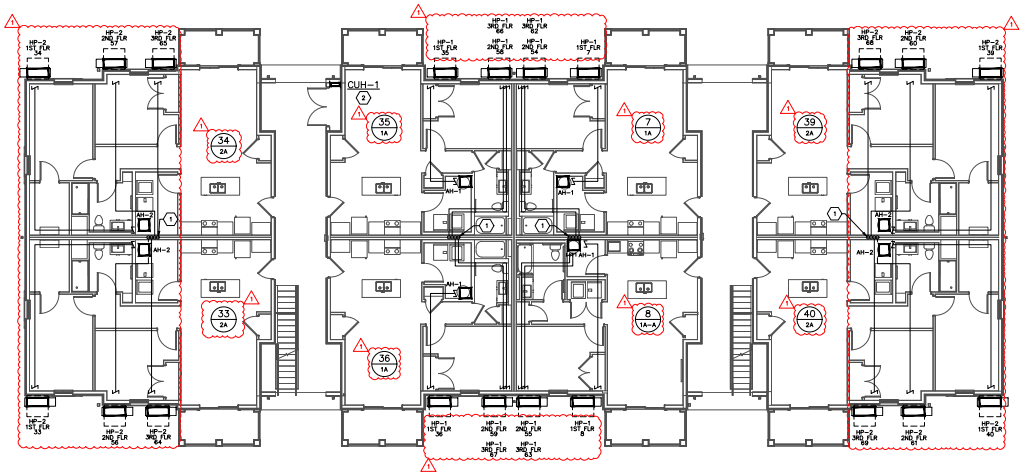
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446
P402
CD PROGRESS SET

© 2024 MOODY NOLAN, INC.



LEVEL 02 HVAC PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).
2. COORDINATE CUH LOCATION PRIOR TO ROUGH IN WITH P/FP DRAWINGS. CUH ONLY TO BE IN CLOSETS WITH PLUMBING OR FIRE PROTECTION PIPING EXPOSED. MAINTAIN ALL MEP CLEARANCES FOR ANY ELECTRICAL PANELS WITHIN CLOSETS.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

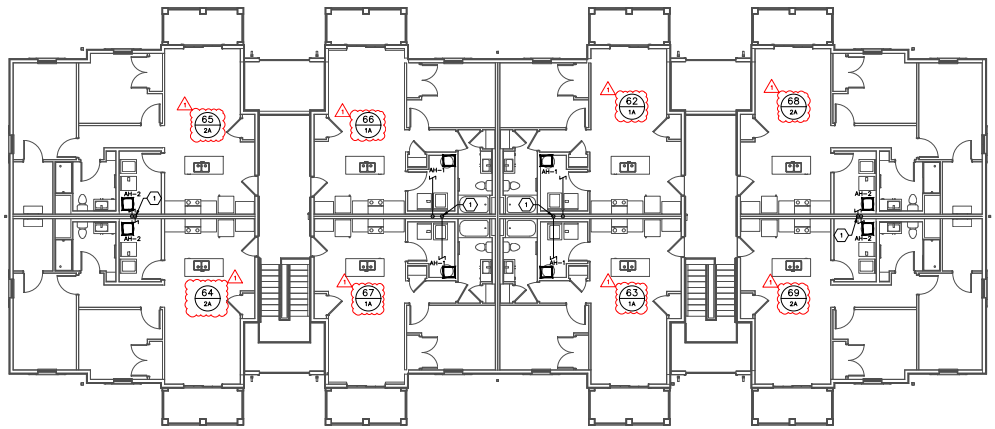
Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE
BUILDING A - LEVEL 01 & 02
HVAC PLANS

H101-A-24217.DWG
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254
DESIGNED BY: B. MOTERRA | DRAWN BY: B. MOTERRA | CHECKED BY | JOB NUM.: 24217

05/01/2025
23446
PROGRESS DRAWING NOT FOR CONSTRUCTION
H101-A
CD PROGRESS SET

© 2024 MOODY NOLAN, INC.



LEVEL 03 HVAC PLAN – BUILDING A
SCALE: 1/8"=1'-0"

CODED NOTES ⬡

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EMPOWERING OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
BUILDING A - LEVEL 03 & ROOF HVAC PLANS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

H102-A

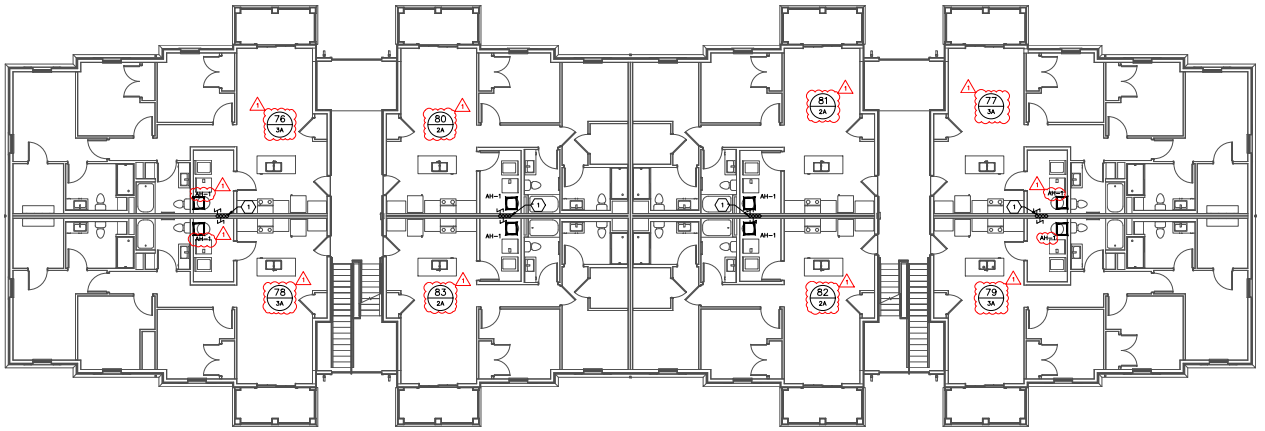
CD PROGRESS SET

H102-A-24217.DWG

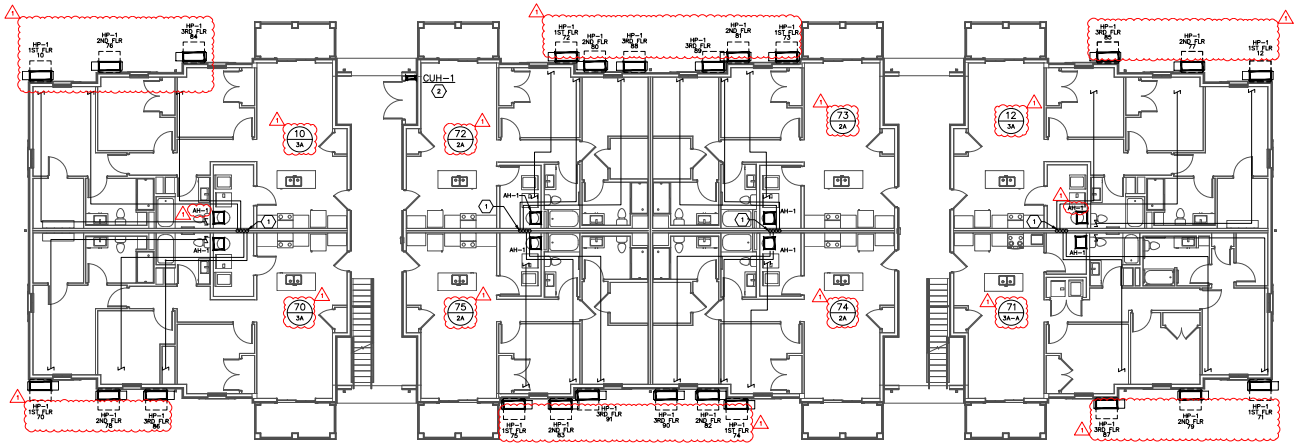
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRA	B. MOTERRA		24217

© 2024 MOODY NOLAN, INC.



LEVEL 02 HVAC PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).
2. COORDINATE CUH LOCATION PRIOR TO ROUGH IN WITH P/FP DRAWINGS. CUH ONLY TO BE IN CLOSETS WITH PLUMBING OR FIRE PROTECTION PIPING EXPOSED. MAINTAIN ALL NEC CLEARANCES FOR ANY ELECTRICAL PANELS WITHIN CLOSETS.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

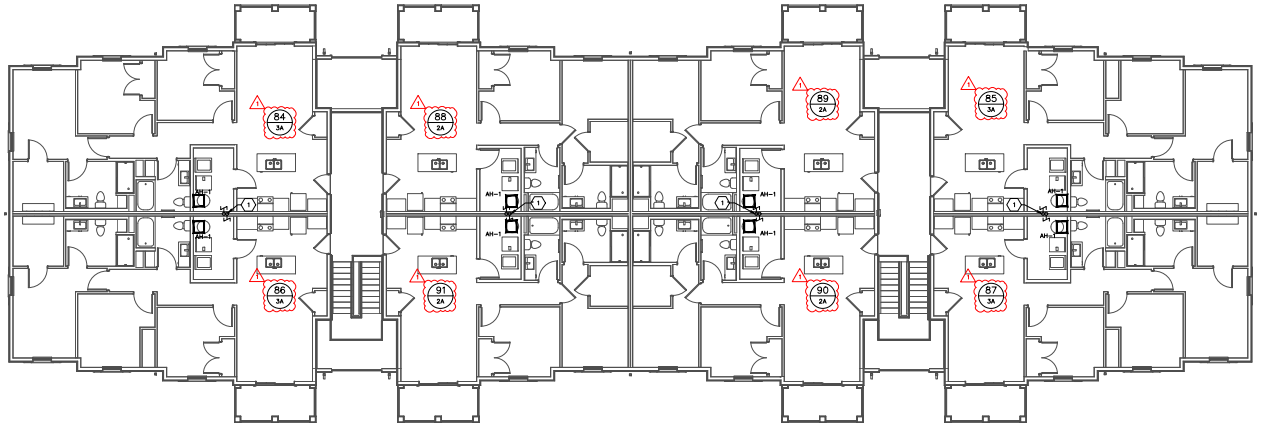
DRAWING TITLE:
BUILDING B - LEVEL 01 & 02 HVAC PLANS

H103-B-24217.DWG
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254
DESIGNED BY: B. MOTERRA | DRAWN BY: B. MOTERRA | CHECKED BY | JOB NUM.: 24217

05/01/2025
23446
H103-B
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

© 2024 MOODY NOLAN, INC.



LEVEL 03 HVAC PLAN – BUILDING B
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
BUILDING B - LEVEL 03 & ROOF HVAC PLANS

H104-B-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRA	B. MOTERRA		24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

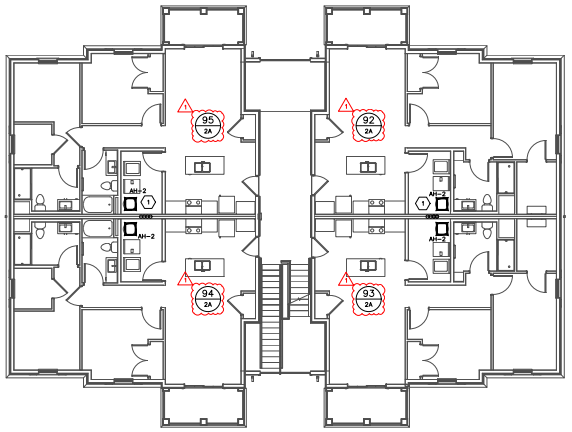
05/01/2025

23446

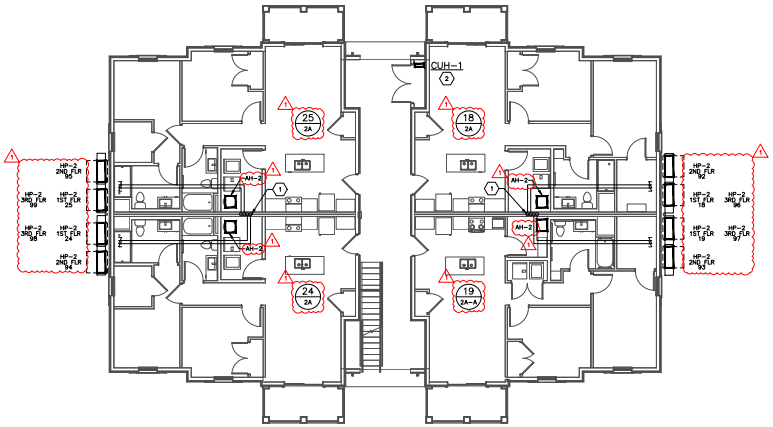
H104-B

CD PROGRESS SET

© 2024 MOODY NOLAN, INC.



LEVEL 02 HVAC PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 01 HVAC PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).
2. COORDINATE CUH LOCATION PRIOR TO ROUGH IN WITH P./FP. DRAWINGS. CUH ONLY TO BE IN CLOSETS WITH PLUMBING OR FIRE PROTECTION PIPING EXPOSED. MAINTAIN ALL MEP CLEARANCES FOR ANY ELECTRICAL PANELS WITHIN CLOSETS.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
BUILDING C - LEVEL 01 & 02
HVAC PLANS

05/01/2025
23446
H105-C
CD PROGRESS SET

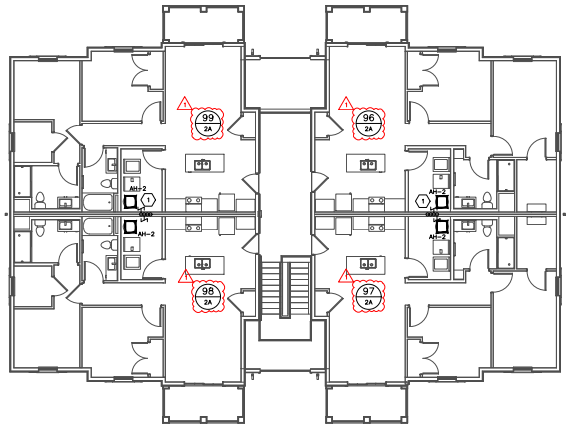
PROGRESS DRAWING NOT FOR CONSTRUCTION

H105-C-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRA	B. MOTERRA		24217

© 2024 MOODY NOLAN, INC.



LEVEL 03 HVAC PLAN – BUILDING C
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
BUILDING C - LEVEL 03 & ROOF HVAC PLANS

H106-C-24217.DWG
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254
DESIGNED BY: B. MOTERRA | DRAWN BY: B. MOTERRA | CHECKED BY | JOB NUM.: 24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

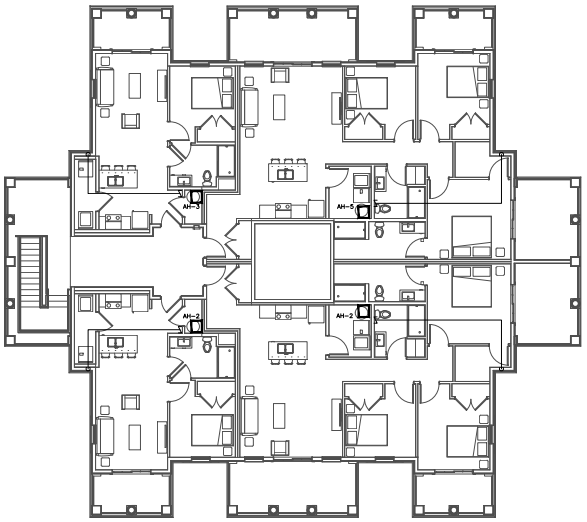
05/01/2025

23446

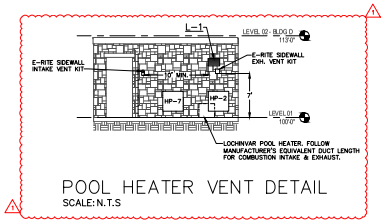
H106-C

CD PROGRESS SET

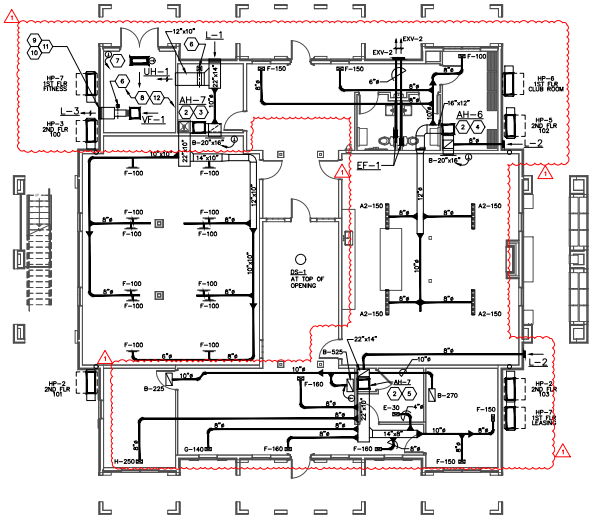
© 2024 MOODY NOLAN, INC.



LEVEL 02 HVAC PLAN – BUILDING D
SCALE: 1/8"=1'-0"



POOL HEATER VENT DETAIL
SCALE: N.T.S



LEVEL 01 HVAC PLAN – BUILDING D
SCALE: 1/8"=1'-0"

CODED NOTES

1. REFRIGERANT PIPING DOWN INSIDE WALL CAVITY TO OUTDOOR UNITS ON GRADE. PIPE PER THE DETAILS ON SHEET H0X (TYP.).
2. INSTALL AIR HANDLING UNIT, REFRIGERANT PIPING, PRIMARY DRAIN LINE AND CONDENSATE OVERFLOW SHUT-OFF SWITCH PER THE DETAILS ON SHEET H0X.
3. BALANCE OUTSIDE AIR DUCT TO 330 CFM. BALANCE R.A. DUCT TO 870 CFM.
4. BALANCE OUTSIDE AIR DUCT TO 180 CFM. BALANCE R.A. DUCT TO 820 CFM.
5. BALANCE OUTSIDE AIR DUCT TO 130 CFM. BALANCE R.A. DUCT TO 1070 CFM.
6. MOTOR OPERATED DAMPER INTERLOCKED W/ VENTILATION FAN.
7. LINE VOLTAGE COOLING ONLY THERMOSTAT FOR CONTROL OF VENTILATION FAN. THERMOSTAT SHALL BE WIRED TO TURN ON FAN WHEN THE SURFACE TEMPERATURE IS ABOVE THE THERMOSTAT SET POINT.
8. COORDINATE HVAC EQUIPMENT LOCATIONS & ROUTING OF DUCTS/PIPES IN THE POOL EQUIPMENT & WATER ROOMS WITH THE WORK OF ALL OTHER TRADES.
9. POOL ROOM HVAC DESIGN IS BASED ON LOCHINVAR MODEL ERN252A POOL HEATER. VERIFY POOL HEATER MANUFACTURER & MODEL WITH CONSTRUCTION MANAGER PRIOR TO PROCURING ANY EQUIPMENT OR MATERIALS. COORDINATE EXACT LOCATION OF POOL HEATER WITH POOL EQUIPMENT SUPPLIER / INSTALLER. PROVIDE CONDENSATE TRAP & EXTEND 3/4" PIPE FROM HEATER CONNECTION TO FLOOR DRAIN. INSTALL CONDENSATE TREATMENT KIT FURNISHED WITH HEATER INLINE WITH CONDENSATE DRAIN.
10. EXTEND 4" VENT PIPE FROM POOL HEATER CONNECTION THROUGH EXTERIOR WALL & TERMINATE WITH FLUE EXHAUST VENT CAP FURNISHED WITH HEATER. VENT PIPING SHALL BE SOLVENT WELDED SCHEDULE PA41 CPVC.
11. INSTALL DIRECT AIR INTAKE KIT AND EXTEND 4" COMBUSTION AIR PIPE THROUGH EXTERIOR WALL TERMINATE USING WALL VENT CAP FURNISHED WITH HEATER. PROVIDE MOTOR OPERATED AIR INLET DAMPER INLINE WITH THE DUCT TO PREVENT CIRCULATION OF COLD AIR THROUGH THE HEATER WHEN NOT IN USE. DAMPER SHALL BE INTERLOCKED WITH THE HEATER. COMBUSTION AIR PIPING SHALL BE SOLVENT WELDED SCHEDULE PA41 CPVC.
12. ALL DUCTWORK, PLENUMS, AND DAMPERS IN THIS ROOM SHALL BE ALUMINUM CONSTRUCTION.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE
BUILDING D - LEVEL 01 & 02
HVAC PLANS

05/01/2025
23446
H107-D
CD PROGRESS SET

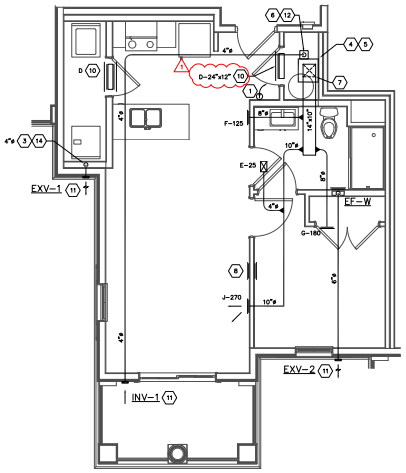
PROGRESS DRAWING NOT FOR CONSTRUCTION

H107-D-24217.DWG

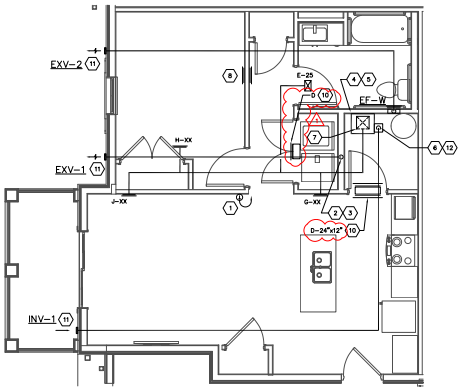
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRA	B. MOTERRA		24217

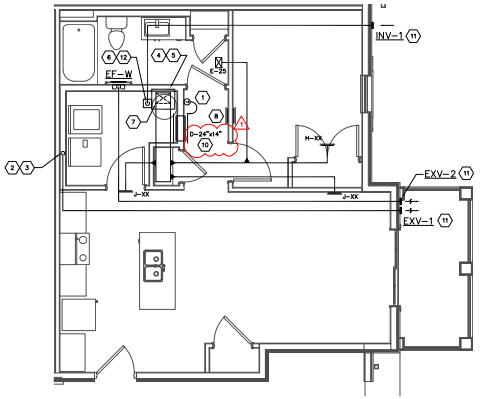
© 2024 MOODY NOLAN, INC.



1 BEDROOM CLUBHOUSE
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE A
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE B
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"

CODED NOTES

1. ELECTRONIC PROGRAMMABLE THERMOSTAT FURNISHED AND WIRED BY HVAC CONTR. MOUNT THERMOSTAT AT 48" A.F.F. EXACT LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
3. DRYER DUCT EQUIVALENT LENGTH IS TO BE PERMANENTLY LABELED WITHIN SIX (6) FEET OF DRYER DUCT CONNECTION.
4. AIR HANDLING UNIT LOCATED ABOVE WATER HEATER. INSTALL AIR HANDLING UNIT, REFRIGERANT PIPING, DRAIN PIPING, CONDENSATE OVERFLOW SHUT-OFF SWITCH, ETC. PER THE DETAILS ON SHEET H301. REFER TO 1/8" SCALE HVAC DRAWINGS FOR AIR HANDLING UNIT DESIGNATION. MAINTAIN N.E.C. REQUIRED CLEARANCE FOR AIR HANDLING UNIT.
5. ROUTE 3/4" DRAIN LINE FROM AIR HANDLING UNIT DRAIN CONNECTION TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR IN MECHANICAL CLOSET.
6. ELECTRICAL CONTRACTOR WILL PROVIDE RM4 SMOKE ALARM ACCESSORY RELAY IN MECHANICAL CLOSET NEAR AIR HANDLING UNIT. HVAC CONTRACTOR SHALL PROVIDE 24V WIRING BETWEEN RM4 RELAY & OUTSIDE AIR FAN. WIRE RELAY TO SHUT OFF OUTSIDE AIR FAN DURING SMOKE ALARM CONDITION.
7. EXTEND DUCT UP INTO SOFFIT CEILING SPACE.
8. PROVIDE TYPE "D" RETURN AIR GRILLES FOR RETURN AIR TRANSFER THROUGH THE WALL STUD SPACE. THE RETURN GRILLE ON THE LIVING ROOM SIDE SHALL BE 6" ABOVE THE FLOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 6" BELOW THE CEILING.
9. INSULATE ALL BATHROOM EXHAUST & DRYER EXHAUST DUCTS LOCATED WITHIN 10 FT. OF AN EXTERIOR WALL OR ROOF PENETRATION.
10. SLEEVED TRANSFER DUCT WITH RETURN AIR GRILLE ON BOTH SIDES OF WALL. TOP OF GRILLE 2" BELOW CEILING.
11. INSULATE ENTIRE LENGTH OF OUTSIDE AIR DUCTWORK.
12. O.A. DUCT DOWN FROM TRUSS SPACE TO UNIT CONNECTION. PROVIDE CEILING RADIATION DAMPER AT CEILING MEMBRANE PENETRATION. PROVIDE MOTORIZED AND MANUAL DAMPERS IN VERTICAL DROP BELOW CEILING. REFER TO DETAIL ON SHEET H301.
13. PROVIDE TYPE "D" RETURN AIR GRILLES CENTERED ABOVE THE DOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 2" ABOVE THE DOOR FRAME. THE RETURN GRILLE ON THE OPPOSITE SIDE SHALL BE 2" BELOW THE CEILING.
14. DRYER EXHAUST DOWN TO FLOOR/CEILING ASSEMBLY BELOW. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
15. COMBINATION MICROWAVE & RE-CIRCULATING TYPE DOMESTIC KITCHEN HOOD LOCATED ABOVE RANGE BY GENERAL CONTRACTOR.

DUCT LOCATION / STRUCTURAL COORDINATION

A. ALL S.A. DISTRIBUTION DUCTWORK FOR APARTMENT UNITS SHALL BE LOCATED IN THE SOFFIT SPACE BENEATH THE FIRE RATED CEILING MEMBRANE.

B. REMOVED.

C. ALL FIELD CUT OPENINGS THROUGH RIM BOARDS SHALL BE MADE IN ACCORDANCE WITH THE STRUCTURE SUPPLIERS GUIDELINES & INSTRUCTIONS. CAREFUL COORDINATION WITH THE STRUCTURE SUPPLIER IS REQUIRED. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF RIM BOARDS.

D. COORDINATE FINAL LOCATIONS OF EXHAUST/INTAKE TERMINALS WITH ARCHITECTURAL ELEVATIONS.

COORDINATION NOTE:

THE HVAC CONTRACTOR SHALL CONFORM TO THE DUCT CONFIGURATION INDICATED ON THIS DRAWING AS CLOSELY AS POSSIBLE. NOTE THAT FIELD COORDINATION WITH OTHER TRADES WILL BE NECESSARY TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATION WITH THE PLUMBING CONTRACTOR WILL BE ESPECIALLY IMPORTANT DUE TO VARIATIONS IN THE SANITARY PIPING CONFIGURATIONS. PROVIDE ADDITIONAL DUCT OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT HVAC PLANS

05/01/2025
23446
H-200
CD PROGRESS SET

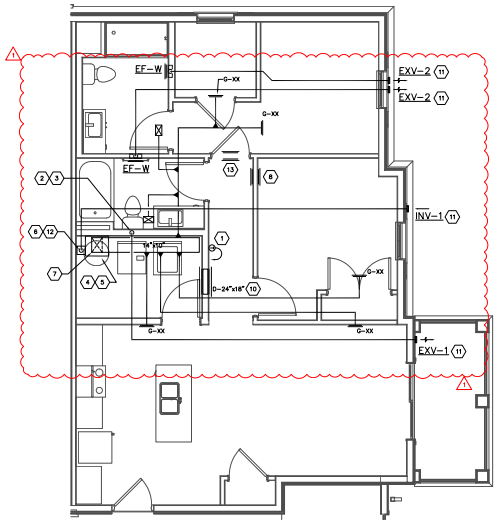
PROGRESS DRAWING NOT FOR CONSTRUCTION

H-200-24217.DWG

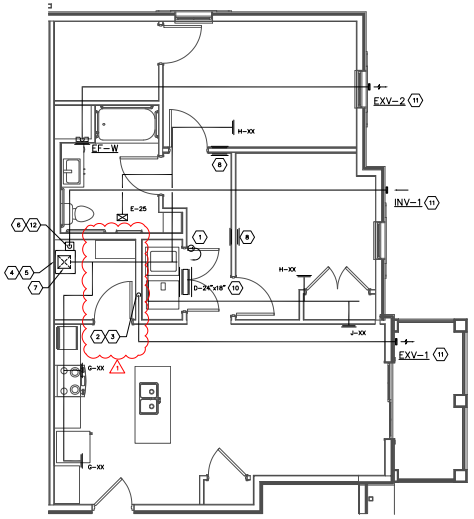
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRN	B. MOTERRN		24217

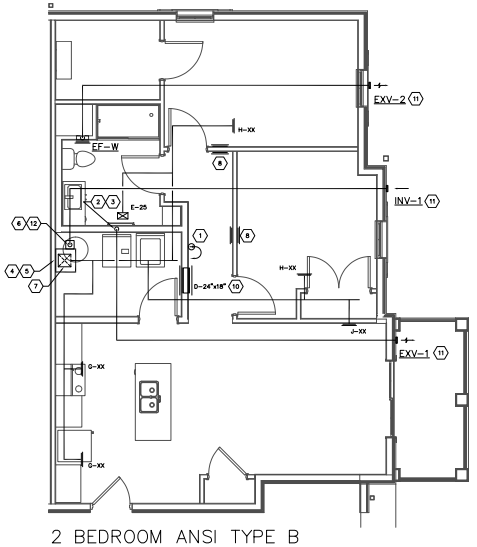
© 2024 MOODY NOLAN INC.



2 BEDROOM 2 BA
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE A
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE B
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"

CODED NOTES

1. ELECTRONIC PROGRAMMABLE THERMOSTAT FURNISHED AND WIRED BY HVAC CONTR. MOUNT THERMOSTAT AT 48" A.F.F. EXACT LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
3. DRYER DUCT EQUIVALENT LENGTH IS TO BE PERMANENTLY LABELED WITHIN SIX (6) FEET OF DRYER DUCT CONNECTION.
4. AIR HANDLING UNIT LOCATED ABOVE WATER HEATER. INSTALL AIR HANDLING UNIT, REFRIGERANT PIPING, DRAIN PIPING, CONDENSATE OVERFLOW SHUT-OFF SWITCH, ETC. PER THE DETAILS ON SHEET H301. REFER TO 1/8" SCALE HVAC DRAWINGS FOR AIR HANDLING UNIT DESIGNATION. MAINTAIN N.E.C. REQUIRED CLEARANCE FOR AIR HANDLING UNIT.
5. ROUTE 3/4" DRAIN LINE FROM AIR HANDLING UNIT DRAIN CONNECTION TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR IN MECHANICAL CLOSET.
6. ELECTRICAL CONTRACTOR WILL PROVIDE RM4 SMOKE ALARM ACCESSORY RELAY IN MECHANICAL CLOSET NEAR AIR HANDLING UNIT. HVAC CONTRACTOR SHALL PROVIDE 24V WIRING BETWEEN RM4 RELAY & OUTSIDE AIR FAN. WIRE RELAY TO SHUT OFF OUTSIDE AIR FAN DURING SMOKE ALARM CONDITION.
7. EXTEND DUCT UP INTO SOFFIT CEILING SPACE.
8. PROVIDE TYPE "D" RETURN AIR GRILLES FOR RETURN AIR TRANSFER THROUGH THE WALL STUD SPACE. THE RETURN GRILLE ON THE LIVING ROOM SIDE SHALL BE 6" ABOVE THE FLOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 6" BELOW THE CEILING.
9. INSULATE ALL BATHROOM EXHAUST & DRYER EXHAUST DUCTS LOCATED WITHIN 10 FT. OF AN EXTERIOR WALL OR ROOF PENETRATION.
10. SLEEVED TRANSFER DUCT WITH RETURN AIR GRILLE ON BOTH SIDES OF WALL. TOP OF GRILLE 2" BELOW CEILING.
11. INSULATE ENTIRE LENGTH OF OUTSIDE AIR DUCTWORK.
12. O.A. DUCT DOWN FROM TRUSS SPACE TO UNIT CONNECTION. PROVIDE CEILING RADIATION DAMPER AT CEILING MEMBRANE PENETRATION. PROVIDE MOTORIZED AND MANUAL DAMPERS IN VERTICAL DROP BELOW CEILING. REFER TO DETAIL ON SHEET H301.
13. PROVIDE TYPE "D" RETURN AIR GRILLES CENTERED ABOVE THE DOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 2" ABOVE THE DOOR FRAME. THE RETURN GRILLE ON THE OPPOSITE SIDE SHALL BE 2" BELOW THE CEILING.
14. DRYER EXHAUST DOWN TO FLOOR/CEILING ASSEMBLY BELOW. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
15. COMBINATION MICROWAVE & RE-CIRCULATING TYPE DOMESTIC KITCHEN HOOD LOCATED ABOVE RANGE BY GENERAL CONTRACTOR.

DUCT LOCATION / STRUCTURAL COORDINATION

A. ALL S.A. DISTRIBUTION DUCTWORK FOR APARTMENT UNITS SHALL BE LOCATED IN THE SOFFIT SPACE BENEATH THE FIRE RATED CEILING MEMBRANE.

B. REMOVED.

C. ALL FIELD CUT OPENINGS THROUGH RIM BOARDS SHALL BE MADE IN ACCORDANCE WITH THE STRUCTURE SUPPLIERS GUIDELINES & INSTRUCTIONS. CAREFUL COORDINATION WITH THE STRUCTURE SUPPLIER IS REQUIRED. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF RIM BOARDS.

D. COORDINATE FINAL LOCATIONS OF EXHAUST/INTAKE TERMINALS WITH ARCHITECTURAL ELEVATIONS.

COORDINATION NOTE:

THE HVAC CONTRACTOR SHALL CONFORM TO THE DUCT CONFIGURATION INDICATED ON THIS DRAWING AS CLOSELY AS POSSIBLE. NOTE THAT FIELD COORDINATION WITH OTHER TRADES WILL BE NECESSARY TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATION WITH THE PLUMBING CONTRACTOR WILL BE ESPECIALLY IMPORTANT DUE TO VARIATIONS IN THE SANITARY PIPING CONFIGURATIONS. PROVIDE ADDITIONAL DUCT OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT
HVAC PLANS

05/01/2025
23446
H-201
CD PROGRESS SET

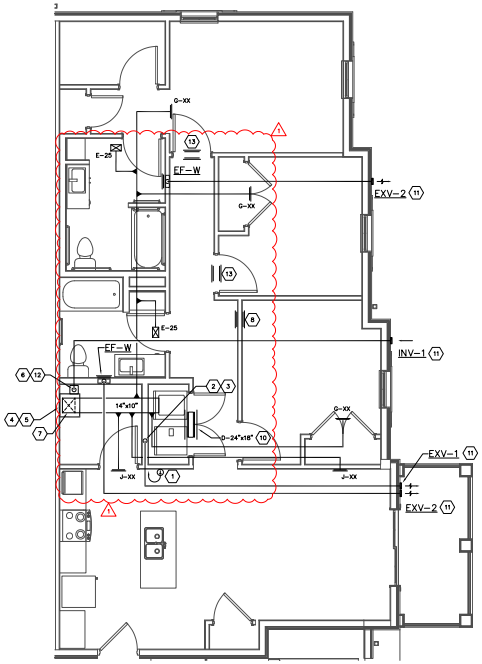
PROGRESS DRAWING NOT FOR CONSTRUCTION

H-201-24217.DWG

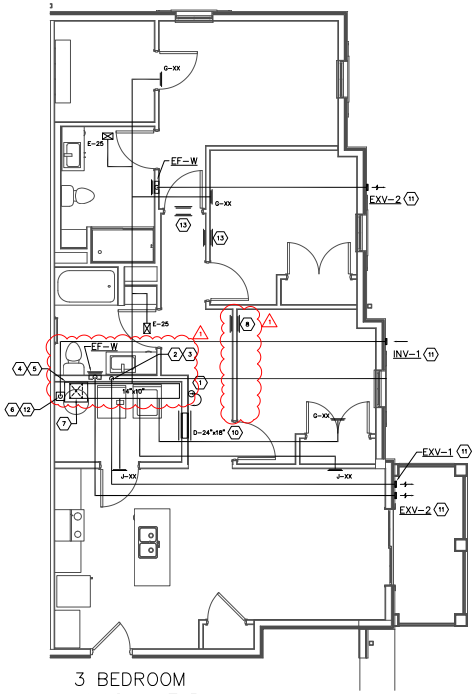
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRN	B. MOTERRN		24217

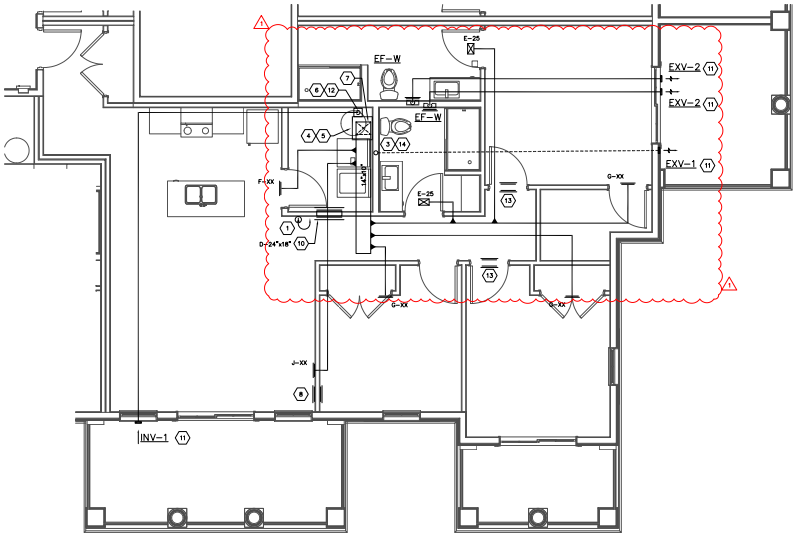
© 2024 MOODY NOLAN INC.



3 BEDROOM ANSI TYPE A
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM
HVAC UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM CLUBHOUSE
HVAC PLAN
SCALE: 1/4"=1'-0"

CODED NOTES

1. ELECTRONIC PROGRAMMABLE THERMOSTAT FURNISHED AND WIRED BY HVAC CONTR. MOUNT THERMOSTAT AT 48" A.F.F. EXACT LOCATION SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
2. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
3. DRYER DUCT EQUIVALENT LENGTH IS TO BE PERMANENTLY LABELED WITHIN SIX (6) FEET OF DRYER DUCT CONNECTION.
4. AIR HANDLING UNIT LOCATED ABOVE WATER HEATER. INSTALL AIR HANDLING UNIT, REFRIGERANT PIPING, DRAIN PIPING, CONDENSATE OVERFLOW SHUT-OFF SWITCH, ETC. PER THE DETAILS ON SHEET H301. REFER TO 1/8" SCALE HVAC DRAWINGS FOR AIR HANDLING UNIT DESIGNATION. MAINTAIN N.E.C. REQUIRED CLEARANCE FOR AIR HANDLING UNIT.
5. ROUTE 3/4" DRAIN LINE FROM AIR HANDLING UNIT DRAIN CONNECTION TO FLOOR DRAIN PROVIDED BY PLUMBING CONTRACTOR IN MECHANICAL CLOSET.
6. ELECTRICAL CONTRACTOR WILL PROVIDE RM4 SMOKE ALARM ACCESSORY RELAY IN MECHANICAL CLOSET NEAR AIR HANDLING UNIT. HVAC CONTRACTOR SHALL PROVIDE 24V WIRING BETWEEN RM4 RELAY & OUTSIDE AIR FAN. WIRE RELAY TO SHUT OFF OUTSIDE AIR FAN DURING SMOKE ALARM CONDITION.
7. EXTEND DUCT UP INTO SOFFIT CEILING SPACE.
8. PROVIDE TYPE "D" RETURN AIR GRILLES FOR RETURN AIR TRANSFER THROUGH THE WALL STUD SPACE. THE RETURN GRILLE ON THE LIVING ROOM SIDE SHALL BE 6" ABOVE THE FLOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 6" BELOW THE CEILING.
9. INSULATE ALL BATHROOM EXHAUST & DRYER EXHAUST DUCTS LOCATED WITHIN 10 FT. OF AN EXTERIOR WALL OR ROOF PENETRATION.
10. SLEEVED TRANSFER DUCT WITH RETURN AIR GRILLE ON BOTH SIDES OF WALL. TOP OF GRILLE 2" BELOW CEILING.
11. INSULATE ENTIRE LENGTH OF OUTSIDE AIR DUCTWORK.
12. O.A. DUCT DOWN FROM TRUSS SPACE TO UNIT CONNECTION. PROVIDE CEILING RADIATION DAMPER AT CEILING MEMBRANE PENETRATION. PROVIDE MOTORIZED AND MANUAL DAMPERS IN VERTICAL DROP BELOW CEILING. REFER TO DETAIL ON SHEET H301.
13. PROVIDE TYPE "D" RETURN AIR GRILLES CENTERED ABOVE THE DOOR. THE RETURN GRILLE ON THE BEDROOM SIDE SHALL BE 2" ABOVE THE DOOR FRAME. THE RETURN GRILLE ON THE OPPOSITE SIDE SHALL BE 2" BELOW THE CEILING.
14. DRYER EXHAUST DOWN TO FLOOR/CEILING ASSEMBLY BELOW. REFER TO DRYER EXHAUST ROUGH-IN DETAIL ON SHEET H301. FIRESTOP DUCT PENETRATION THROUGH THE CEILING MEMBRANE. INSTALL 4"ø FLEXIBLE EXHAUST DUCT BETWEEN END OF RIGID EXHAUST DUCT & DRYER EXHAUST CONNECTION. VERIFY EXACT DRYER LOCATION PRIOR TO INSTALLING DRYER EXHAUST DUCT.
15. COMBINATION MICROWAVE & RE-CIRCULATING TYPE DOMESTIC KITCHEN HOOD LOCATED ABOVE RANGE BY GENERAL CONTRACTOR.

DUCT LOCATION / STRUCTURAL COORDINATION

A. ALL S.A. DISTRIBUTION DUCTWORK FOR APARTMENT UNITS SHALL BE LOCATED IN THE SOFFIT SPACE BENEATH THE FIRE RATED CEILING MEMBRANE.

B. REMOVED.

C. ALL FIELD CUT OPENINGS THROUGH RIM BOARDS SHALL BE MADE IN ACCORDANCE WITH THE STRUCTURE SUPPLIERS GUIDELINES & INSTRUCTIONS. CAREFUL COORDINATION WITH THE STRUCTURE SUPPLIER IS REQUIRED. REFER TO THE STRUCTURAL DRAWINGS FOR LOCATIONS OF RIM BOARDS.

D. COORDINATE FINAL LOCATIONS OF EXHAUST/INTAKE TERMINALS WITH ARCHITECTURAL ELEVATIONS.

COORDINATION NOTE:

THE HVAC CONTRACTOR SHALL CONFORM TO THE DUCT CONFIGURATION INDICATED ON THIS DRAWING AS CLOSELY AS POSSIBLE. NOTE THAT FIELD COORDINATION WITH OTHER TRADES WILL BE NECESSARY TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATION WITH THE PLUMBING CONTRACTOR WILL BE ESPECIALLY IMPORTANT DUE TO VARIATIONS IN THE SANITARY PIPING CONFIGURATIONS. PROVIDE ADDITIONAL DUCT OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS AND COORDINATION WITH OTHER TRADES.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614.461.4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ENLARGED UNIT HVAC PLANS

H-202-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRN	B. MOTERRN		24217

05/01/2025
23446
H-202
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

© 2024 MOODY NOLAN INC.

FAN SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON GREENHECK UNLESS OTHERWISE NOTED.
KEY: CENT.–CENTRIFUGAL; PROP.–PROPELLER; F.C.–FORWARD CURVED; B.I.–BACKWARD INCLINE; A.F.–AIR FOIL; A.T.L.–ACROSS THE LINE; VFD–VARIABLE FREQUENCY DRIVE

FAN NO.	LOCATION	FUNCTION	MFGR. MODEL NUMBER	FAN TYPE	WHEEL TYPE & SIZE	CFM	EXT. S.P. "W.G.	R.P.M.	TIP SPEED F.P.M.	OUTLET VELOCITY F.P.M	MAX. SOUND RATING	MOTOR H.P.	BHP REQ'D	VOLT	PHASE	TYPE MOTOR STARTING	DAMPER: GRAVITY	DAMPER: MOTOR OPERATED	DRIVE: ADJUST. V-BELT	DRIVE: DIRECT	REMARKS
EF-W	WALL MOUNTED	APARTMENT BATHROOMS	GREENHECK SP-LP0511-1	LOW PROFILE WALL MTD.	F.C.	50	0.4"	685	1009	555	2.3 SONES	N/A	0.01	115	1	A.T.L.	●			●	(4) (5)
EF-K	WALL MOUNTED	APARTMENT KITCHENS	GREENHECK SP-LP0511-1	LOW PROFILE WALL MTD.	B.I. 7.75"	100	0.35"	1040	1654	93	3.5 SONES	1/15	0.02	115	1	A.T.L.	●			●	
OAF-1	FITNESS CENTER	FITNESS CENTER O.A.	FANTECH FG 8XL	INLINE SUPPLY	F.C.	330	0.5"	3031	---	---	---	N.A.	147 WATTS	120	1	A.T.L.				●	(1) (6) (7)
OAF-2	CLUB ROOM	CLUB ROOM O.A.	FANTECH FG 8XL	INLINE SUPPLY	F.C.	180	0.5"	3031	---	---	---	N.A.	147 WATTS	120	1	A.T.L.				●	(1) (6) (7)
OAF-3	LEASING	LEASING O.A.	FANTECH FG 8XL	INLINE SUPPLY	F.C.	130	0.5"	3031	---	---	---	N.A.	147 WATTS	120	1	A.T.L.				●	(1) (6) (7)
OAF-4	APARTMENT UNITS	APARTMENT O.A.	FANTECH FG 6	INLINE SUPPLY	F.C.	-	0.5"	2886	---	---	---	N.A.	72 WATTS	120	1	A.T.L.				●	(1) (6) (7) (10)
VF-1	CEILING SPACE	POOL ROOM VENT.	GREENHECK SQ-80-VG	INLINE EXHAUST	F.C.	300	0.3"	1589	4524	300	7.6 SONES	1/6	0.06	115	1	A.T.L.	●			●	(2) (3) (8) (9)
EF-1	CLUBHOUSE	RESTROOM EXHAUST	GREENHECK SP-LP0511-1	LOW PROFILE WALL MTD.	F.C.	50	0.4"	685	1009	555	2.3 SONES	N.A.	0.01	115	1	A.T.L.	●			●	(4) (5)

(1) SUPPORT FAN FROM STRUCTURE ABOVE OR ADJACENT WALL.
(2) SUPPORT FAN FROM OVERHEAD STRUCTURE W/ RUBBER IN SHEAR VIBRATION ISOLATORS.
(3) FAN TO BE FURNISHED W/ FACTORY MOUNTED VARIABLE SPEED SWITCH FOR BALANCING.
(4) FAN SHALL BE CONTROLLED BY LIGHT SWITCH.
(5) INTEGRAL GRILLE & METAL DAMPER / DUCT CONNECTOR.
(6) FURNISH W/ WC 15 SPEED CONTROL FOR BALANCING. MOUNT SPEED CONTROL TO WALL ADJACENT TO FAN.
(7) HVAC CONTR. SHALL INTERLOCK O.A. FAN W/ AIR HANDLING UNIT SUPPLY FAN. O.A. FAN SHALL OPERATE ONLY WHEN AHU FAN IS RUNNING.
(8) CONTROLLED BY WALL MOUNTED LINE VOLTAGE THERMOSTAT.
(9) ALUMINUM WHEEL MATERIAL, INSULATED HOUSING.
(10) SEE DWELLING UNITS O.A. FOR FAN CFM.

SPLIT SYSTEM HEAT PUMP UNIT SCHEDULE

ITEM	AH-1 / HP-1	AH-2 / HP-2	AH-3 / HP-3	AH-4 / HP-4	AH-5 / HP-5	AH-6 / HP-6	AH-7 / HP-7
AIR HANDLER MANUFACTURER	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT
AIR HANDLER MODEL NUMBER	FMA5X1800AL	FMA5X1800AL	FMA5X1800AL	FMA5X2400AL	FMA5X2400AL	FJ5ANXB30L00	FJ5ANXB36L00
UNIT CONFIGURATION	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW	VERT. UPFLOW
COIL FACE AREA (SQ. FT.)	5.9	5.9	5.9	2.2	2.2	3.96	3.96
SUPPLY AIR CFM	600	600	600	760	760	1000	1200
EXTERNAL STATIC PRESSURE	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"	0.5"
FAN MOTOR HP	1/5	1/5	1/5	1/3	1/3	1/2	1/2
FAN FLA	5	7.5	7.5	5	5	2.9	2.9
ELECTRIC HEATER CAPACITY (KW) @ 240V	5.0	7.5	10.0	5.0	10.0	10.0	15.0
MIN. CIRCUIT AMPS (MCA)	27.4	41.5	52.4	27.4	24.1	56.9	81.5
MAX. OVERCURRENT PROTECTION (MOCP)	30	45	60	30	60	60	90
VOLTS/PHASE	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø
HEAT PUMP UNIT MANUFACTURER	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT	BRYANT
MODEL NUMBER	37MUHAQ18AA3	37MUHAQ18AA3	37MUHAQ18AA3	37MUHAQ24AA3	37MUHAQ24AA3	37MUHAQ30AA3	37MUHAQ36AA3
NOMINAL TONNAGE	1.5	1.5	1.5	2.0	2.0	2.5	3.0
TOTAL COOLING CAP. MBTU @ AHRI	16.9	16.9	16.9	22.2	22.2	30.0	36.6
SENSIBLE COOLING MBTU @ AHRI	12.9	12.9	12.9	16.3	16.3	22.5	27.5
SYSTEM EER2 / SEER2 @ AHRI	10.5 / 16.5	10.5 / 16.5	10.5 / 16.5	11 / 17	11 / 17	11 / 16	9.5 / 15.5
HEATING CAP. MBTU @ 47°F	17.6	17.6	17.6	23.4	23.4	31.0	37.6
COP @ 17°F (FOR FMA) AND @ 5°F (FOR FJ)	2.64	2.64	2.64	2.7	2.7	1.75	2.2
HSPF2	8.5	8.5	8.5	9	9	8.5	8.5
FAN FLA	0.5	0.5	0.5	0.6	0.6	1.1	1.5
COMPRESSOR LRA	45.1	45.1	45.1	64.4	64.4	-	-
COMPRESSOR RLA	8.3	8.3	8.3	10.3	10.3	10	15.38
MINIMUM CIRCUIT AMPACITY	16	16	16	19	19	22.5	24.0
MAXIMUM FUSE SIZE	20	20	20	20	20	25	30
VOLTS/PHASE	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø	240/1ø

NOTES:

1. HEATING & COOLING CAPACITIES BASED ON AHRI DATA.
2. ALL INDOOR FAN COIL UNITS SHALL HAVE A SINGLE POINT WIRING CONNECTION, UNLESS NOTED OTHERWISE.
3. PROVIDE ALL OUTDOOR HEAT PUMP UNITS WITH THE FOLLOWING ACCESSORIES FOR LONG LINE LENGTH APPLICATIONS: ACCUMULATOR, COMPRESSOR START ASSIST CAPACITOR AND RELAY, HARD SHUTOFF TXV, CRANKCASE HEATER, LIQUID LINE SOLENOID VALVE AND ALL OTHER ACCESSORIES NECESSARY FOR LONG LINE LENGTH APPLICATIONS.
4. ALL INDOOR UNITS SHALL BE FURNISHED WITH AN ECM TYPE FAN MOTOR.
5. APARTMENTS – FURNISH EACH SPLIT SYSTEM WITH A DIGITAL ELECTRONIC, 7 DAY PROGRAMMABLE, AUTO CHANGEOVER, HARD WIRED THERMOSTAT W/ BUILT IN CYCLE PROTECTOR.
6. EACH FAN COIL UNIT SHALL BE FURNISHED W/ A FILTER RACK CAPABLE OF HOUSING 1" THICK FILTERS.
7. ALL APARTMENT FAN COIL UNITS SHALL BE WALL MOUNT TYPE FURNISHED W/ WALL MOUNT HARDWARE & FRONT RETURN AIR GRILLE PANEL.
9. OUTDOOR UNITS SHALL BE INSTALLED AS DESCRIBED IN SPECIFICATION SECTION 23 62 14.
8. TOTAL COOLING CAPACITY SHALL NOT BE DERATED BY MORE THAN 5% DUE TO A 40 FT. ELEVATION DIFFERENCE BETWEEN INDOOR & OUTDOOR UNITS & A MAX. EQUIVALENT LENGTH OF 150 FT.
10. VERTICAL INDOOR UNITS SHALL BE INSTALLED PER THE SPLIT SYSTEM AIR HANDLING UNIT DETAIL ON SHEET H301.
11. REFER TO REFRIGERANT PIPING DETAILS ON SHEET H301.
14. COMMON AREAS – SPLIT SYSTEMS SERVING CORRIDORS, AMENITY AREAS, LOBBIES, ADMINISTRATIVE SPACES, ETC. SHALL BE CONTROLLED BY AN ECOBEE SMART THERMOSTAT FURNISHED & INSTALLED BY THE HVAC CONTRACTOR.

HVAC NOTES

1. DUCT LAYOUTS ARE BASED ON COORDINATION WITH PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL AND OTHER TRADES TO ACHIEVE THE CEILING HEIGHTS INDICATED ON THE ARCHITECTURAL DRAWINGS. CAREFUL COORDINATION BETWEEN ALL TRADES WILL BE REQUIRED ON THE JOB SITE TO ATTAIN THESE CEILING HEIGHTS. PROVIDE ADDITIONAL OFFSETS WHERE REQUIRED DUE TO FIELD CONDITIONS.
2. DUCT LAYOUT IS ONLY SCHEMATIC, EXACT LOCATION OF PIPES AND DUCTS TO BE COORD. ON JOB W/BLDG. STRUCTURE, AND WORK OF OTHER CONTRS.
3. INSTALL BALANCING DAMPERS AS SHOWN AND AS REQ'D FOR PROPER BALANCING OF AIR HANDLING SYSTEMS. REFER TO THE SPECIFICATIONS FOR AIR BALANCING REQUIREMENTS.
4. THERMOSTATS SHALL BE MOUNTED AT 48" A.F.F. COORDINATE EXACT LOCATIONS WITH THE CONSTRUCTION MANAGER.
5. INSTALL ALL EQUIPMENT W/ CODE REQUIRED CLEARANCE IN FRONT OF ALL ELECTRICAL AND CONTROL PANELS.
6. ALL DUCTS AND PIPES AB. CLG. UNLESS OTHERWISE NOTED.
7. NO DUCTWORK, PIPING OR EQUIPMENT MAY BE LOCATED AB. ELEC. OR TELE. EQUIP.
8. MOUNT CABINET UNIT HEATERS W/ BTM. 8" AB. FLR., UNLESS OTHERWISE NOTED.
9. ALL DUCTS IN APARTMENT UNITS SHALL BE INSTALLED WITH FLAT SLIP TYPE CONNECTORS TO MINIMIZE DUCT HEIGHTS.
10. NOTIFY GEN. CONTR. OF SIZE AND LOCATION OF ALL RECESSES AND OPNGS. REQ'D FOR HVAC WORK.
11. FLASHING AND COUNTERFLASHING AT ROOF DUCT PENETRATIONS BY HVAC CONTR.
12. RUN ALL DRAIN LINES INDIRECT TO NEAREST FLOOR DRAIN OR HUB DRAIN.
13. THE HVAC CONTR. IS RESPONSIBLE FOR FIRESTOPPING AT ALL HVAC RELATED PENETRATIONS OF FIRE AND SMOKE RATED STRUCTURES, FLOORS AND PARTITIONS. REFER TO ARCHITECTURAL FLR. PLANS FOR LOCATIONS OF ALL RATED STRUCTURES. REFER TO THIS SHEET FOR FIRESTOPPING DETAILS.
14. ALL DUCTWORK WITH FIRE OR FIRE/SMOKE DAMPERS SHALL BE LABELED W/ 1/2" HIGH LETTERS.
15. ALL FIRE DAMPERS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION DETAILS.
16. PROVIDE AIRTIGHT A.D. IN DUCTS ADJACENT TO ALL FIRE DAMPERS, CEILING RADIATION DAMPERS AND ELSEWHERE AS REQUIRED TO ACCESS DUCT ACCESSORIES. THE GENERAL TRADES CONTRACTOR SHALL PROVIDE AN ACCESS DOOR WHERE DUCT ACCESS DOORS ARE ABOVE DRYWALL CEILINGS. THE HVAC CONTRACTOR SHALL COORDINATE ALL LOCATIONS REQUIRING CEILING ACCESS WITH THE GENERAL TRADES CONTRACTOR.
17. FLEXIBLE DUCTWORK MAY BE USED AS TERMINAL DUCT ONLY, WITH LENGTHS NOT TO EXCEED 14 FT. & NO MORE THAN ONE (1) 90° ELBOW REFER TO SPECIFICATION SECTION 23 31 13.13.
18. ALL DUCT PENETRATIONS THRU STRUCTURAL BEARING WALLS SHALL BE RIGID DUCT. FLEXIBLE DUCTWORK SHALL NOT PENETRATE STRUCTURAL BEARING WALLS. FIRESTOP EACH DUCT PENETRATION. REFER TO THE FIRESTOPPING DETAILS.

AIR TERMINAL SCHEDULE

ROUND AND SQUARE DEVICES:
TYPE OF OUTLET → A – 8 – 300 ← AIR QUANTITY IN C.F.M. (DIFF. & REG. ONLY)
SIZE OF OUTLET (NECK SIZE DIAMETER FOR DIFFUSERS)

TYPE OF OUTLET → C4 – 300 ← AIR QUANTITY IN C.F.M. (DIFF. & REG. ONLY)
LINEAR DIFFUSERS: NUMBER OF SLOTS

TYPE	DESCRIPTION
A	LINEAR SUPPLY AIR DIFFUSER, SFC. MTD., PRICE MODEL SDS75, 3/4" SLOTS, 4'-0" LONG UNLESS OTHERWISE NOTED. FURNISH W/ MODEL SDBI INSULATED PLENUM W/ INLET CONNECTION SIZE EQUAL TO BRANCH DUCT SIZE.
B	RETURN/EXHAUST AIR GRILLE, SURFACE MOUNTED, PRICE MODEL 530: 24"x12" UNLESS OTHERWISE NOTED. FURNISH WITH BLADES PARALLEL TO "LONG" DIMENSION.
C	SUPPLY AIR DIFFUSER, LAY-IN, 24"x24", PRICE MODEL SCDA: DIFFUSERS SHALL HAVE ADJUSTABLE HORIZONTAL-TO-VERTICAL PATTERN WITH EQUALIZING GRID
D	RETURN/TRANSFER AIR GRILLE, SURFACE MOUNTED, AIRMATE SERIES 170, 14"x8" UNLESS OTHERWISE NOTED.
E	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 8"x4" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
F	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 10"x6" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
G	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 12"x6" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
H	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 14"x6" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.
J	SUPPLY AIR REGISTER, SURFACE MOUNTED, AIRMATE SERIES 160; 14"x8" UNLESS OTHERWISE NOTED. FURNISH W/ PARALLEL BLADE DAMPER.

NOTES:

1. PROVIDE A SHEET METAL PLENUM ABOVE/BEHIND EACH REGISTER AND GRILLE FOR MAKING A CONNECTION TO THE BRANCH DUCT.
2. COORDINATE THE GRID FACE DIMENSION OF THE CEILING SUSPENSION SYSTEMS WITH THE GENERAL CONTRACTOR. PROVIDE NARROW TEE TYPE DEVICES WHERE REQUIRED.

CABINET UNIT HEATER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON QMARK UNLESS OTHERWISE NOTED.

UNIT NO.	LOCATION	FRAME TYPE	MFGR. MODEL NUMBER	KW	MBH	AMPS	VOLT	PHASE	REMARKS
CUH-1	CLUBHOUSE LOBBY	SURFACE MOUNT	AWH4506F	4.8	16.4	23.1	240	1	(1) (2)

(1) FURNISH WITH INTEGRAL THERMOSTAT.
(2) FURNISH WITH CIRCUIT BREAKER.

UNIT HEATER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON QMARK UNLESS OTHERWISE NOTED.

UNIT NO.	ROOM NO.	MFGR. MODEL NUMBER	KW	MBH	AMPS	HP	RPM	CFM	VOLT	PHASE	REMARKS
UH-1	008	MUH-05-81	5.0	17.0	24.0	1/100	1600	350	240	1	(1) (2)

(1) FURNISH WITH INTEGRAL THERMOSTAT.
(2) FURNISH WITH CEILING MOUNTING BRACKET

LOUVER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON GREENHECK UNLESS OTHERWISE NOTED.

UNIT NO.	MODEL NUMBER	LOCATION	WIDTH (INCHES)	HEIGHT (INCHES)	DEPTH (INCHES)	FREE AREA (SF)	REMARKS
L-1	ESD-635	D116	24	18	6	1.2	(1) (2)
L-2	ESD-635	BLDG D	14	14	6	0.4	(1) (2)
L-2	ESD-635	POOL EQUIPMENT ROOM	22	12	6	0.6	(1) (2)

(1) OPENING IN WALL BY G.C.
(2) PROVIDE WITH KYNAR 500 FINISH. COLOR SELECTION BY ARCHITECT.

EQUIPMENT NOTES

EXV-1
DEFLECTO MODEL HS4B BROWN VENT HOOD W/ OPERABLE LOUVERS & 4"ø DUCT CONNECTION.

EXV-2
DEFLECTO MODEL HSB4B BROWN VENT HOOD W/ OPERABLE LOUVERS, BIRD BARS & 4"ø DUCT CONNECTION.

INV-1
DEFLECTO MODEL HSM6B BROWN FRESH AIR INTAKE HOOD W/ FIXED LOUVERS, BIRD GRID & 6"ø DUCT CONNECTION.

DS-1
AIRIUS DESIGNER SERIES 60-P4 DESTRATIFICATION FAN. PROVIDE CONTROLS WIRING, DIAL, AND MOUNTING HARDWARE. COORDINATE COLOR/FINISH WITH ARCHITECT.

ATTACH INTAKE & VENT TERMINALS TO THE EXTERIOR WALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SEAL ALL DUCT PENETRATIONS THROUGH EXTERIOR WALLS WEATHER TIGHT.

DWELLING UNIT O.A.

BASED ON EQUATION 4-9 IN OMC 2024

UNIT TYPE	# OF BEDROOMS	FLOOR AREA (ft.^{2})	CFM REQUIRED	ADJUSTED CFM
1 BED CLUBHOUSE	1	673	21.73	25
1 BED ANSI TYPE A	1	673	21.73	25
1 BED ANSI TYPE B	1	673	21.73	25
2 BED 2 BA	2	945	31.95	35
2 BED ANSI TYPE A	2	945	31.95	35
2 BED ANSI TYPE B	2	945	31.95	35
3 BED ANSI TYPE A	3	1209	42.09	45
3 BED	3	1209	42.09	45
3 BED CLUBHOUSE	3	1209	42.09	45

DRYER EQUIVALENT LENGTHS CALCULATIONS

UNIT TYPE	HORIZONTAL DUCT LENGTH (FT.)	VERTICAL DUCT LENGTH (FT.)	# 45° ELBOWS	# 90° ELBOWS	TOTAL # 90° ELBOWS	TOTAL STRAIGHT DUCT LENGTH (FT.)	TOTAL EQUIVALENT LENGTH (FT.)
CLUBHOUSE 1 BED	1	7	0	1	1	8	13
1 BED ANSI TYPE A	19	7	0	1	1	26	31
1 BED ANSI TYPE B	24	7	0	1	1	31	36
2BED 2 BATH	31	7	0	2	2	38	48
2 BED ANSI TYPE A	31	7	0	2	2	38	48
2 BED ANSI TYPE B	31	7	0	2	2	38	48
3 BED ANSI TYPE A	24	7	0	2	2	31	41
3 BED	31	7	0	2	2	38	48
CLUBHOUSE 3 BED	22	3	0	1	1	25	30

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
—A—	AIR LINE
—COMB—	COMBINED SEWER
—D—	DRAIN LINE
—F—	FIRE PROTECTION LINE
—HG—	HOT GAS LINE
—LIQ—	LIQUID LINE
—SAN—	SANITARY LINE
—STM—	STORM LINE
—SUCT—	SUCTION LINE
—TW—	DOMESTIC TEMPERED WATER
—V—	VENT LINE
—W—	WATER SERVICE LINE
—180°—	DOMESTIC 180°F WATER
	RETURN RISER
	SUPPLY RISER
	PENDANT TYPE SPRINKLER HEAD
	UPRIGHT TYPE SPRINKLER HEAD
	P-TRAP (PLAN VIEW)
	AIR VENT – PLAN VIEW
	CAPPED LINE
	HOSE BIBB
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	COLD AIR HIGH PRESSURE DUCT
	HOT AIR HIGH PRESSURE DUCT
	RISE OR DROP
	PIPE BRANCH TOP CONNECTION
	PIPE BRANCH BOTTOM CONNECTION
	PIPE ANCHOR
	PIPE FLANGES
	PIPE UNION
	PIPE GUIDE
	FLEXIBLE PIPE CONNECTION
	FLEXIBLE DUCT
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TEE WITH NIPPLE & CAP
	PLUGGED TEE
	Y-TYPE STRAINER
	PETE'S PLUG
	COMB. BALANCE & STOP VALVE
	BALL VALVE
	BALL VALVE W/MEMORY STOP
	GATE VALVE (SCREWED BODY)
	DRAIN VALVE WITH HOSE END
	GLOBE VALVE
	GATE VALVE (FLANGED BODY)
	AUTO CONTROL VALVE
	SOLENOID VALVE
	CHECK VALVE
	GAS COCK OR BALANCE VALVE
	METERED BALANCE VALVE
	BUTTERFLY VALVE
	BUTTERFLY VALVE W/MEMORY STOP
	FLOOR OR AREA DRAIN
	THERMOSTAT
	TEMPERATURE SENSOR
	FLOW SWITCH
	THERMOMETER
	CURB BOX & VALVE
	CONNECT TO EXISTING
	THRU FLOOR AS SHOWN
J.R. SH.	JANITOR OR SHOWER TRIM
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	R.A., O.A., OR EXH. DUCT UP
	R.A., O.A., OR EXH. DUCT DOWN
ø	ROUND DUCT
	FLAT OVAL DUCT
	SPIN-IN FITTING WITH BALANCE DAMPER
	ELBOW WITH TURNING VANES
	FIRE DAMPER
	MAN. DAMPER
	ACCESS DOOR
	45° BOOT BRANCH TAKEOFF

MECHANICAL ABBREVIATIONS

AB.	ABOVE	CONC.	CONCRETE	H.B.	HOSE BIBB
A.D.	ACCESS DOOR	C.O.	CLEAN OUT	HTR.	HEATER
A.F.F.	ABOVE FINISHED FLOOR	CONN.	CONNECT	HTG.	HEATING
APPROX.	APPROXIMATELY	CONTR.	CONTRACTOR	H & A/C	HEATING & AIR CONDITIONING
AUTO. CONT.	AUTOMATIC CONTROL	CONT.	CONTINUATION	INV. ELEV.	INVERT ELEVATION
BTM.	BOTTOM	COORD.	COORDINATE	J. R.	JANITOR RECEPTOR
BLDG.	BUILDING	DTL.	DETAIL	LAV.	LAVATORY
CAB.	CABINET	DIA.	DIAMETER	MAN. DPR.	MANUAL DAMPER
CAP.	CAPACITY	DIFF.	DIFFUSER	M. H.	MANHOLE
C.B.	CATCH BASIN	DISCH.	DISCHARGE	MFR.	MANUFACTURER
C.I.	CAST IRON	DN.	DOWN	MECH.	MECHANICAL
CLG.	CEILING	D.S.	DOWNSPOUT	M. A.	MIXED AIR
		ELEC.	ELECTRICAL	MTD.	MOUNTED
		E.W.C.	ELECTRIC WATER COOLER	NOM.	NOMINAL
		ELEM.	ELEMENT	OPNG.	OPENING
		ELEV.	ELEVATION	O.A.	OUTSIDE AIR
		EXH	EXHAUST	P.C.	PLUMBING CONTRACTOR
		EXIST.	EXISTING	PLBG.	PLUMBING
		FT. HD.	FEET OF HEAD	PRESS.	PRESSURE
		FIN. RAD.	FINNED RADIATION	PROP.	PROPELLER
		F. DPR.	FIRE DAMPER	REG.	REGISTER
		F. E.	FIRE EXTINGUISHER	RHC.	REHEAT COIL
		FLEX.	FLEXIBLE	REQD.	REQUIRED
		FLR.	FLOOR	REL.	RELIEF
		F.D.	FIRE DAMPER	R.A.	RETURN AIR
		FURN.	FURNISH	R.D.	ROOF DRAIN
		GA.	GAGE	RM.	ROOM
		GEN.	GENERAL	SCHED.	SCHEDULE
		GR.	GRILLE	S.D.	SHOWER DRAIN
				SHT.MTL.	SHEET METAL
				S.I.	SURFACE INLET
				S.S.	SERVICE SINK
				STAT.	THERMOSTAT
				S.A.	SUPPLY AIR
				TEMP.	TEMPERATURE
				TYP.	TYPICAL
				T.C.C.	TEMP. CONTROL CONTRACTOR
				VIB. ISOL.	VIBRATION ISOLATOR
				W.	WASTE
				W/	WITH

DRYER VENTING NOTES

1. EXHAUST DUCTS SHALL BE ASSEMBLED SO THE INTERIOR SURFACES ARE SMOOTH W/ JOINTS RUNNING IN THE DIRECTION OF AIRFLOW SO AS TO PREVENT ACCUMULATION OF LINT INSIDE THE DUCT. EACH JOINT SHALL BE SECURED WITH METAL FOIL TAPE. DO NOT USE SCREWS OR RIVETS.
2. CLOTHES DRYER EXHAUST DUCTS SHALL BE CONSTRUCTED OF RIGID GALVANIZED STEEL, MINIMUM 26 GAUGE THICKNESS – DO NOT UTILIZE FLEXIBLE DUCTWORK FOR CLOTHES DRYER EXHAUST DUCTS, EXCEPT FLEXIBLE METAL DUCT IS PERMITTED IN THE UTILITY ROOM, OUTSIDE OF THE WALL CONSTRUCTION FOR FINAL CONNECTION TO DRYER OUTLET.
3. EXHAUST DUCTS SHALL BE SUPPORTED AT 4 FT INTERVALS AND SECURED IN PLACE. THE INSERT END OF EACH DUCT SECTION SHALL EXTEND INTO THE ADJOINING DUCT OR FITTING IN THE DIRECTION OF AIRFLOW.
4. PROTECTIVE SHIELD PLATES SHALL BE PLACED ON THE FINISHED FACE OF ALL FRAMING MEMBERS WHERE THERE IS LESS THAN 1-1/4" BETWEEN THE DUCT AND THE FINISHED FACE OF THE FRAMING MEMBER. PROTECTIVE SHIELD PLATES SHALL BE CONSTRUCTED OF STEEL, HAVE A THICKNESS OF 0.062" AND EXTEND A MINIMUM OF 2" ABOVE SOLE PLATES AND BELOW TOP PLATES.
5. DRYER EXHAUST DUCT ELBOWS SHALL HAVE A MINIMUM CENTERLINE RADIUS OF 4".
6. REFER TO DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL VENTING REQUIREMENTS.
7. THE DEVELOPER IS FURNISHING DRYERS WITH VENTING CAPACITIES AS NOTED ABOVE. THIS CONTRACTOR SHALL INSTALL PERMANENTLY LABELED SIGNAGE WITHIN SIX (6) FEET OF THE DRYER DUCT CONNECTION. THE SIGNAGE SHALL STATE THE DRYER DUCT LENGTH & NUMBER OF ELBOWS PER THE AS-BUILT CONDITION FOR EACH UNIT SO THAT REPLACEMENT APPLIANCES WITH APPROPRIATE VENTING CAPACITIES CAN BE PROVIDED AS NEEDED IN THE FUTURE.
8. HVAC CONTRACTOR SHALL CAREFULLY COORDINATE ROUTING OF DRYER EXHAUST DUCTS TO MINIMIZE OFFSETS & THE RESULTING OVERALL EQUIVALENT VENT LENGTH. COORDINATE W/ OTHER TRADES SO THAT INSTALLATION OF THE DRYER EXHAUST DUCTWORK IS GIVEN PRECEDENCE.

H300-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road, Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MCFERRIN	B. MCFERRIN		24217

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
HVAC SCHEDULES

PROGRESS DRAWING NOT FOR CONSTRUCTION

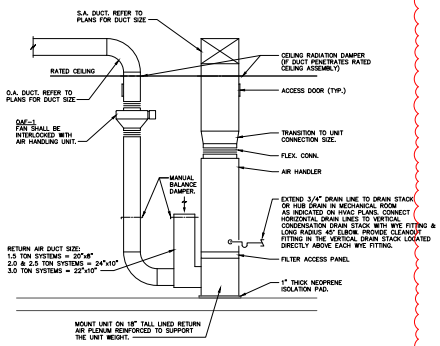
05/01/2025

23446

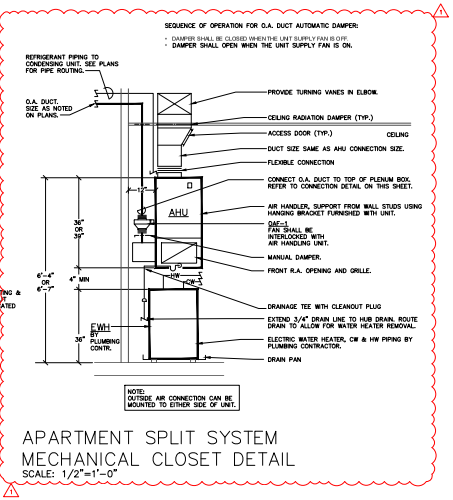
H300

CD PROGRESS SET

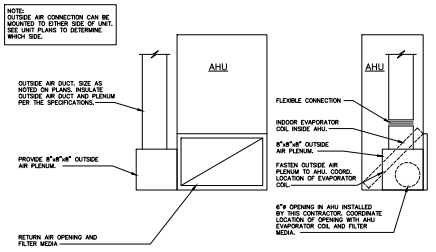
© 2024 MOODY NOLAN INC.



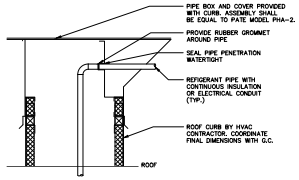
COMMON CORRIDOR SPLIT SYSTEM AHU DETAIL
SCALE: 1/2"=1'-0"



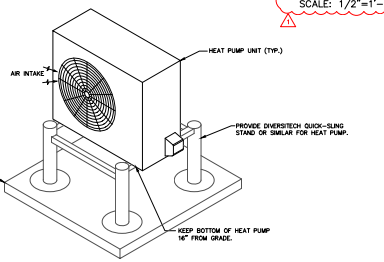
APARTMENT SPLIT SYSTEM MECHANICAL CLOSET DETAIL
SCALE: 1/2"=1'-0"



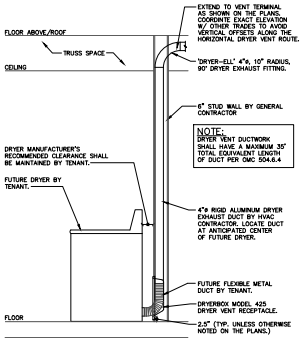
APARTMENT AIR HANDLING UNITS OUTSIDE AIR/AHU CONNECTION DETAIL
N.T.S.



PIPE CURB DETAIL
SCALE: N.T.S.



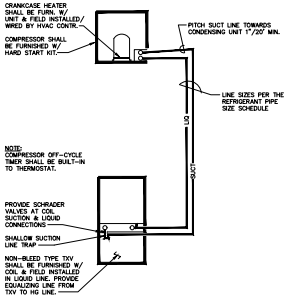
HEAT PUMP UNIT MOUNTING DETAIL
N.T.S.



DRYER EXHAUST ROUGH-IN DETAIL
SCALE: N.T.S.

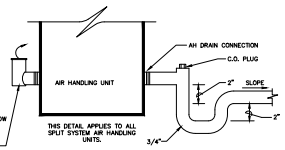
PIPE SIZE SCHEDULE			
TONS	LINE SIZE		INDOOR UNIT LOCATION
	SUCTION	LIQUID	
1.5	5/8"	3/8"	ALL FLOORS
2.0	3/4"	3/8"	ALL FLOORS
3.0	3/4"	3/8"	ALL FLOORS

NOTE: REFRIGERANT PIPE SIZING SHALL BE COORDINATED WITH THE MANUFACTURER OF THE UNITS BEING PURCHASED.

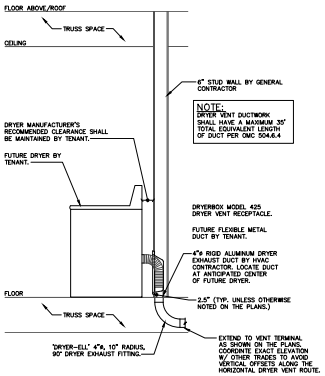


OUTDOOR UNIT ABOVE INDOOR UNIT

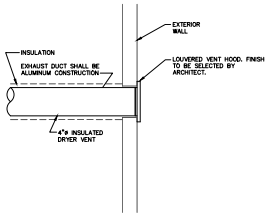
DUCTED SPLIT SYSTEMS REFRIGERANT PIPING DETAILS
SCALE: N.T.S.



AIR HANDLING UNIT CONDENSATION DRAIN SYSTEMS
SCALE: N.T.S.



DRYER EXHAUST ROUGH-IN DETAIL TOP FLOOR APPLICATION
SCALE: N.T.S.



DRYER EXHAUST TERMINATION DETAIL
SCALE: N.T.S.

#	DATE	CHANGE DESCRIPTION
1	05/30/2025	ADDENDUM# 01
2	TBD	ADDENDUM# 02

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMPANION. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
HVAC DETAILS

05/01/2025
23446
H301
CD PROGRESS SET

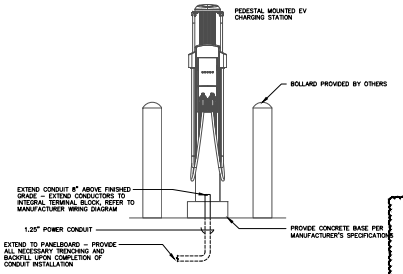
PROGRESS DRAWING NOT FOR CONSTRUCTION

H301-24217.DWG

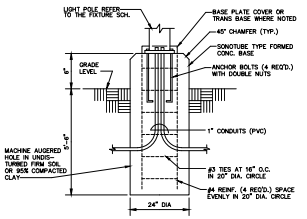
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4888
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
B. MOTERRA	B. MOTORRA		24217

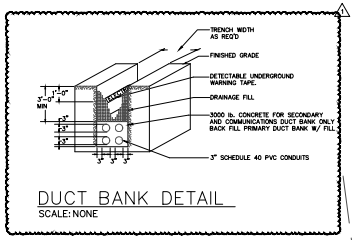
© 2024 MOODY NOLAN, INC.



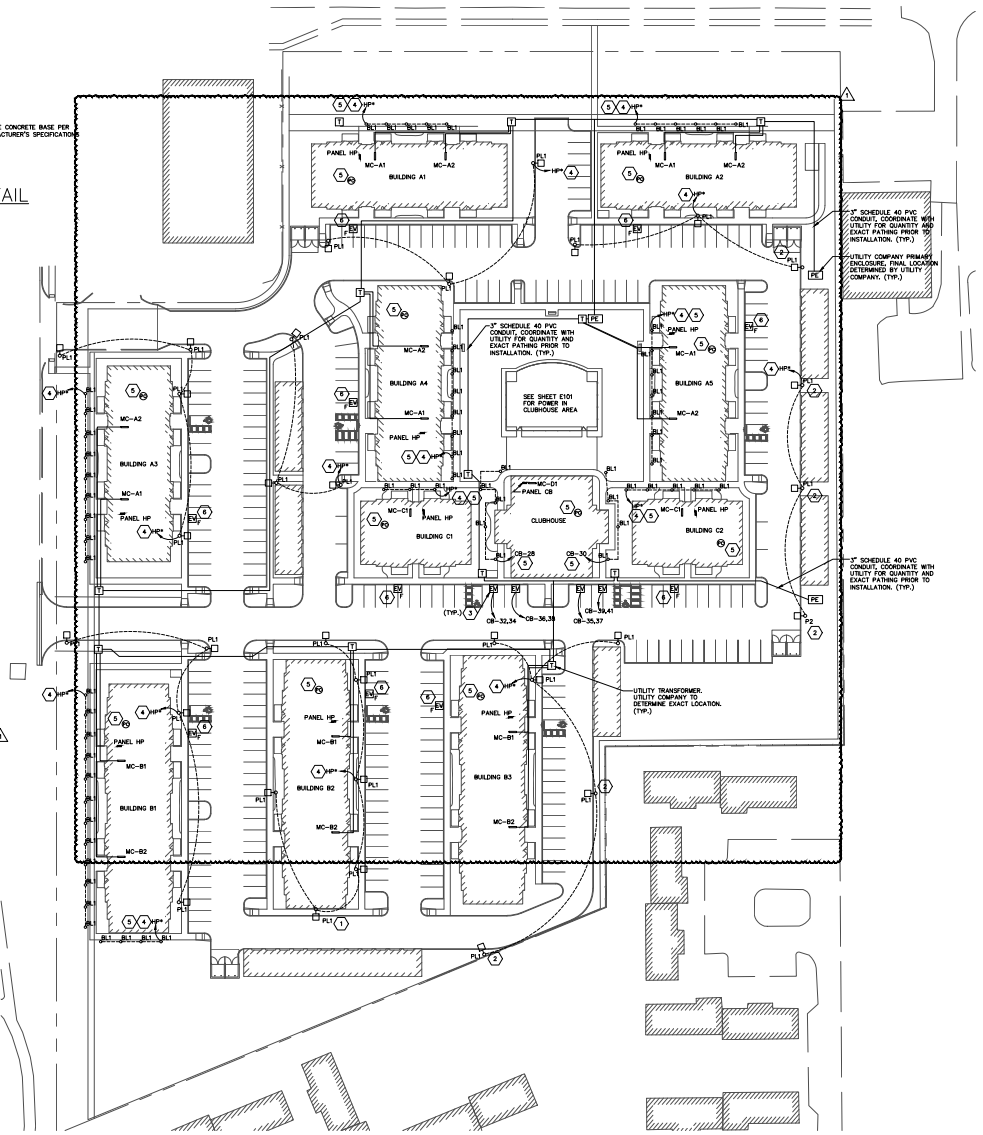
EV CHARGER ROUGH-IN DETAIL
SCALE: NONE



POLE BASE DETAIL
SCALE: NONE



DUCT BANK DETAIL
SCALE: NONE



ELECTRICAL SITE PLAN
SCALE: 1"=40'-0"

GENERAL NOTES

A. COORDINATE WITH ALL UTILITY COMPANIES PRIOR TO BIDDING. THE ELECTRICAL SITE PLAN IS DIAGRAMMATIC ONLY AND REPRESENTS GENERAL LOCATIONS OF EQUIPMENT AND UTILITY SPECIFICATIONS. THE SEPARATE UTILITY COMPANIES SHALL PROVIDE DETAILED SPECIFICATIONS AND EQUIPMENT SIZES UPON REQUEST.

B. THE ELECTRICAL SITE PLAN DOES NOT SHOW ALL EXISTING UTILITIES, EXISTING UNDERGROUND EQUIPMENT, OR NEW UNDERGROUND SERVICES. THIS CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND EXISTING CONDITIONS PRIOR TO THE START OF WORK, PRIOR TO EXCAVATING, LOCATE ALL UNDERGROUND SERVICES AND CLEARLY IDENTIFY LOCATIONS.

C. COORDINATE WITH UTILITY COMPANY TO EXTEND THE PRIMARY CONDUCTORS FROM THE EXISTING PRIMARY UTILITY EQUIPMENT TO THE NEW POWER COMPANY TRANSFORMERS.

D. PAD MOUNTED TRANSFORMERS PROVIDED AND INSTALLED BY UTILITY COMPANY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONCRETE PAD IN COMPLIANCE WITH THE POWER COMPANY SPECIFICATIONS.

E. WIRING TO ALL SITE LIGHTING SHOWN ON THIS SHEET SHALL BE MINIMUM (2) #8 AND (1) #8 GROUND IN 1" CONDUIT FOR ENTIRE LENGTH OF CIRCUIT.

F. ALL MEP CONTRACTORS SHALL CAREFULLY COORDINATE THE FINAL LOCATION OF LOUVERS, EXHAUST TERMINATIONS, LIGHT FIXTURES, HEAT PUMP CONDENSING UNITS, GAS METERS, METER CENTERS, AND TELEPHONE/CABLE BOXES WITH THE ARCHITECT AND OWNER REPRESENTATIVE. SEE ARCHITECTURAL ELEVATIONS AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.

G. SEE SHEET E109-G FOR ENLARGED GARAGE PLANS.

CODED NOTES ⬡

1. WALL MOUNT FIXTURE AT 25'-0" A.F.F.
2. PROVIDE POLE FIXTURE WITH HOUSE SIDE SHIELD TO PREVENT LIGHT SPILLAGE ONTO ADJACENT PROPERTIES.
3. PROVIDE 1.25" CONDUIT FOR EACH EV CHARGER BRANCH CIRCUIT. COORDINATE FINAL LOCATION WITH OWNER REPRESENTATIVE AND CIVIL ENGINEER PRIOR TO ROUGH-IN. REFER TO MANUFACTURER INSTALLATION INSTRUCTIONS FOR MORE INFORMATION.
4. CIRCUIT EXTERIOR LIGHTING CIRCUIT TO NEAREST BUILDING HOUSE PANEL "HP". SEE HP PANEL SCHEDULE ON SHEET E-300.
5. RUN CIRCUIT THROUGH EXTERIOR PHOTOCELL FOR AUTOMATIC CONTROL. PROVIDE EXTERIOR LIGHTING PHOTOCELL TO CONTROL EXTERIOR FIXTURES, EQUAL TO PRECISION #ST-15. MOUNT HIGH ON THE NORTH SIDE OF THE BUILDING FOR MAXIMUM EXPOSURE TO SUN AND OUT OF SITE FROM PUBLIC. COORDINATE FINAL LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
6. PROVIDE PULLBOX FOR FUTURE EV CHARGER EQUAL TO HUBBELL 24"X24"X24" PG STYLE QUAZITE BOX. PROVIDE (1) ONE EMPTY 2" SCHEDULE 40 PVC, AND RUN TO NEAREST HOUSE PANEL. COORDINATE EXACT LOCATION OF PULLBOX AND CONDUIT WITH CIVIL AND THE ARCHITECT PRIOR TO INSTALLATION.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL SITE PLAN

E100-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	--	24217

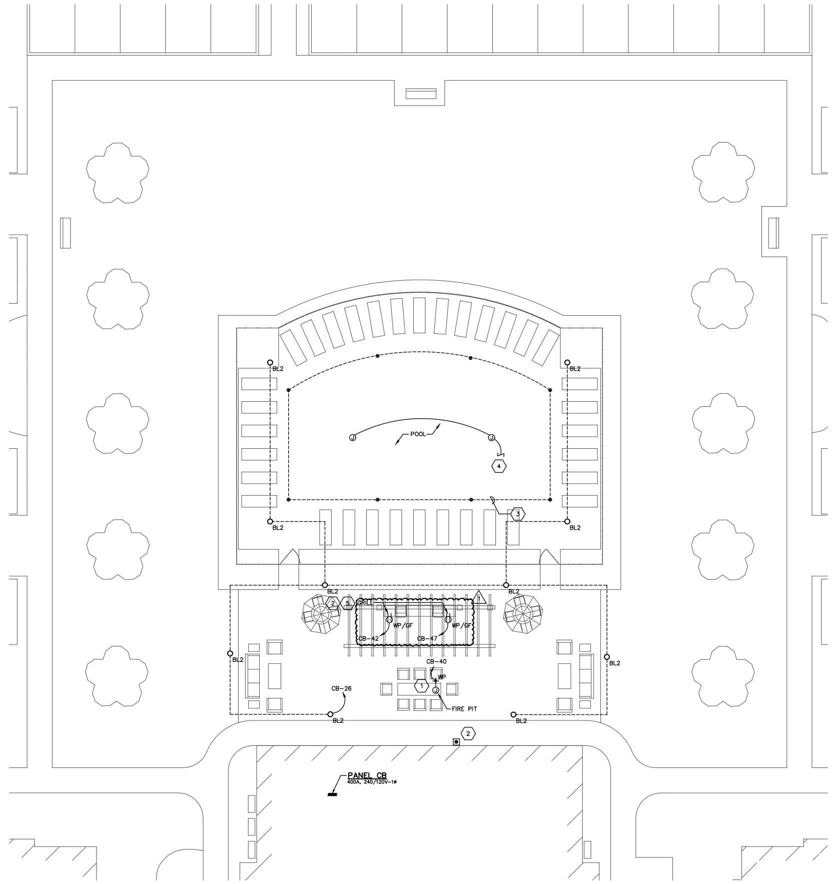
PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

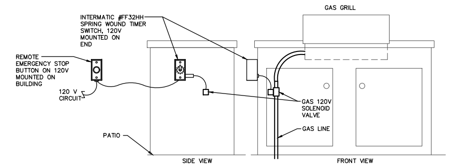
23446

E100

CD PROGRESS SET



ELECTRICAL CLUBHOUSE PLAN
SCALE: 1"=10'-0"



GAS GRILL EM SHUTOFF
SCALE: NONE

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTYSEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

H. COORDINATE ALL EXTERIOR LIGHT FIXTURE LOCATIONS BY THE POOL WITH THE LANDSCAPE CONTRACTOR PRIOR TO ROUGH-IN. SEE LANDSCAPE PLANS FOR MORE DETAILS.

I. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

J. REFER TO NEC 680.26 FOR REQUIREMENTS ON POOL GROUNDING AND BONDING.

CODED NOTES ⬡

1. PROVIDE 120V CONNECTION AND WEATHERPROOF DISCONNECT SWITCH FOR FIRE PIT. COORDINATE FINAL REQUIREMENTS WITH MANUFACTURER AND LOCATION OF SWITCH WITH OWNER PRIOR TO ROUGH-IN. EXTEND WIRING TO EMERGENCY SHUT-OFF BUTTON.
2. PROVIDE EPO PUSH-BUTTON EQUAL TO STI TO TURN OFF SOLENOID VALVE. EXTEND CIRCUIT FOR ALL GAS EQUIPMENT INCLUDING FIRE PITS AND GAS GRILLS TO PUSH-BUTTON. COORDINATE FINAL LOCATION OF EPO BUTTON WITH OWNER PRIOR TO ROUGH-IN.
3. PROVIDE A POOL DECK GROUNDING SYSTEM. PROVIDE A PERIMETER SURFACE BOND 3' BEYOND THE INSIDE WALL OF THE POOL AND ATTACHED TO THE POOL REINFORCING STEEL OR COPPER CONDUCTOR GRID AT A MINIMUM OF FOUR POINTS EVENLY SPACED AROUND THE POOL PERIMETER. REFER TO NEC 680.26(B)(2) FOR BONDING REQUIREMENTS.
4. PROVIDE 120V CONNECTION WITH GROUND FAULT PROTECTION TO POOL LIGHTS. EXTEND CIRCUIT TO UNDERWATER LIGHTS IN POOL. COORDINATE FINAL CONNECTIONS WITH POOL CONTRACTOR. SEE SHEET E107-D FOR CONNECTION LOCATION IN POOL ROOM.
5. SEE GAS GRILL EM SHUTOFF DETAIL ON THIS SHEET FOR MANUAL SHUTOFF OF GAS EQUIPMENT.

LINE TYPE LEGEND

————	LINE TYPE INDICATES NEW ELECTRICAL EQUIPMENT/DEVICES TO BE PROVIDED.
- - - - - -	LINE TYPE INDICATES BELOW GROUND ELECTRICAL WIRING

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO. FIRM 00197475

DRAWING TITLE:
ELECTRICAL CLUBHOUSE PLAN

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025
23446

E101

CD PROGRESS SET

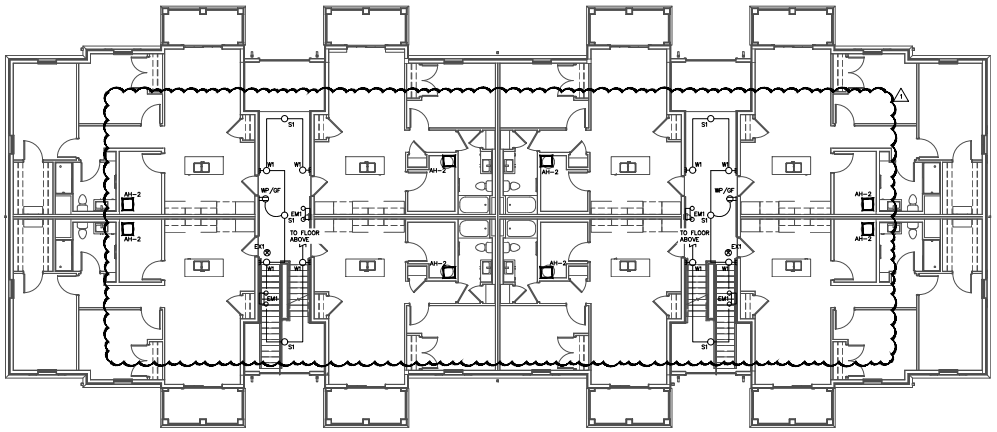
E101-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

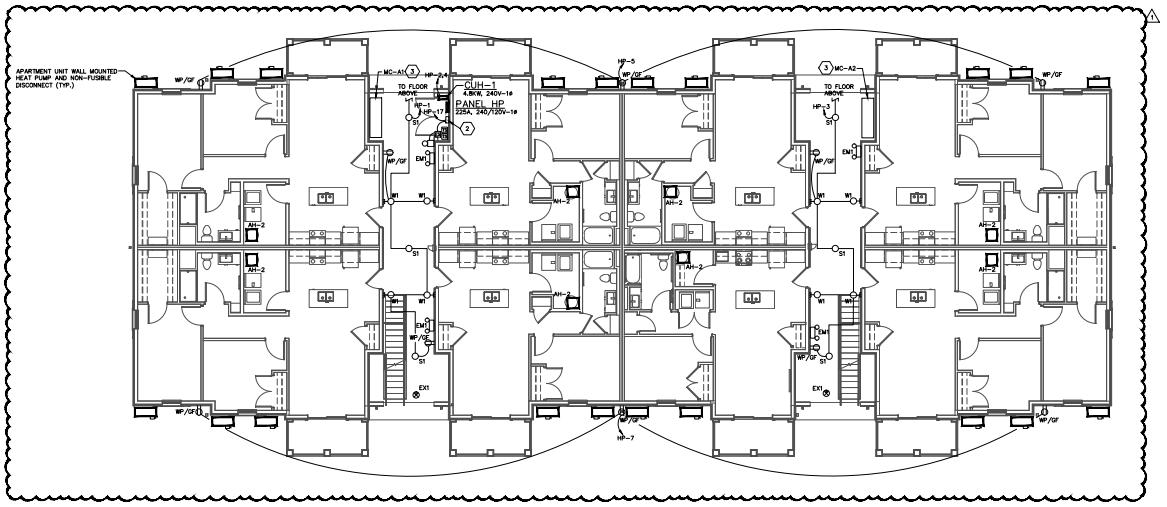
DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

© 2024 MOODY NOLAN INC.

© 2024 MOODY NOLAN, INC.



LEVEL 02 ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED.

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

⚠ REFER TO SITE PLAN FOR LOCATIONS OF METER CENTERS AND WATER ROOM AND EQUIPMENT. LOCATION MAY VARY PER BUILDING.

CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE #ST-10) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ON ROOF AND AIM NORTH.
2. PROVIDE FIRE ALARM SPRINKLER MONITORING PANEL. PROVIDE 2 PHONE LINES TO PANEL. COORDINATE INSTALLATION WITH OWNER. REFER TO SPECIFICATIONS AND WIRING DIAGRAM ON SHEET E-401 FOR MORE INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
BUILDING A - LEVEL 01 & 02 ELECTRICAL PLANS

E101-A-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

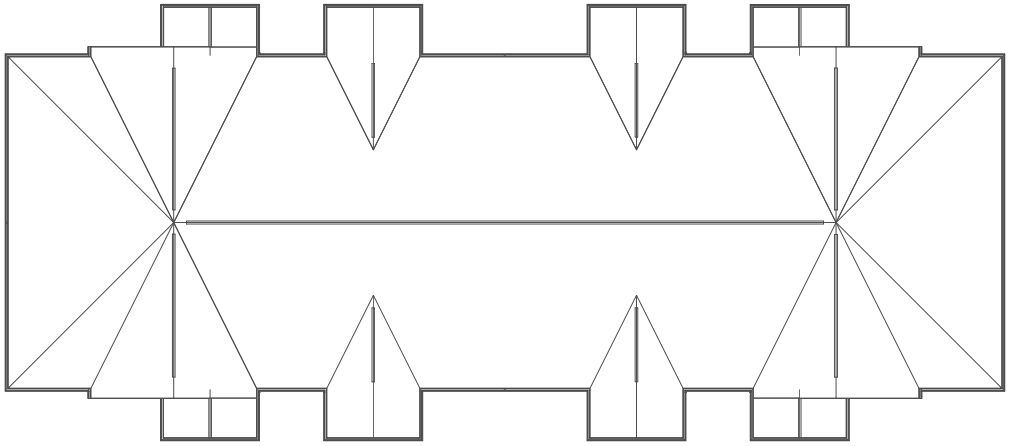
05/01/2025

23446

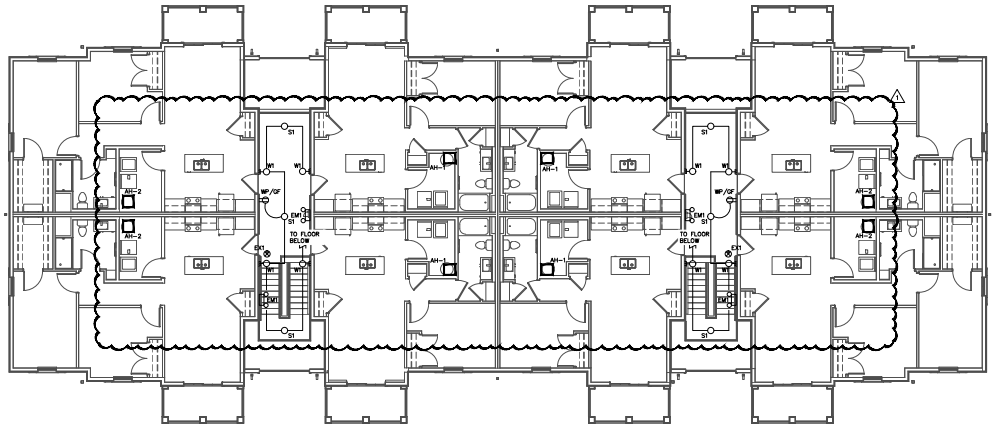
E101-A

CD PROGRESS SET

© 2024 MOODY NOLAN, INC.



ROOF ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"



LEVEL 03 ELECTRICAL PLAN – BUILDING A
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED.

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
BUILDING A - LEVEL 03 & ROOF ELECTRICAL PLANS

05/01/2025

23446

PROGRESS DRAWING NOT FOR CONSTRUCTION

E102-A

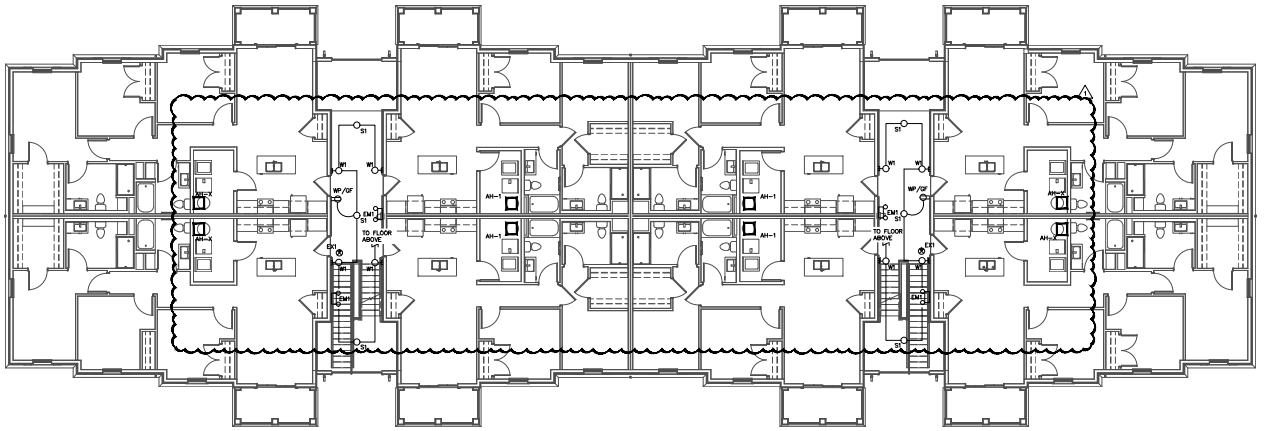
CD PROGRESS SET

E102-A-24217.DWG

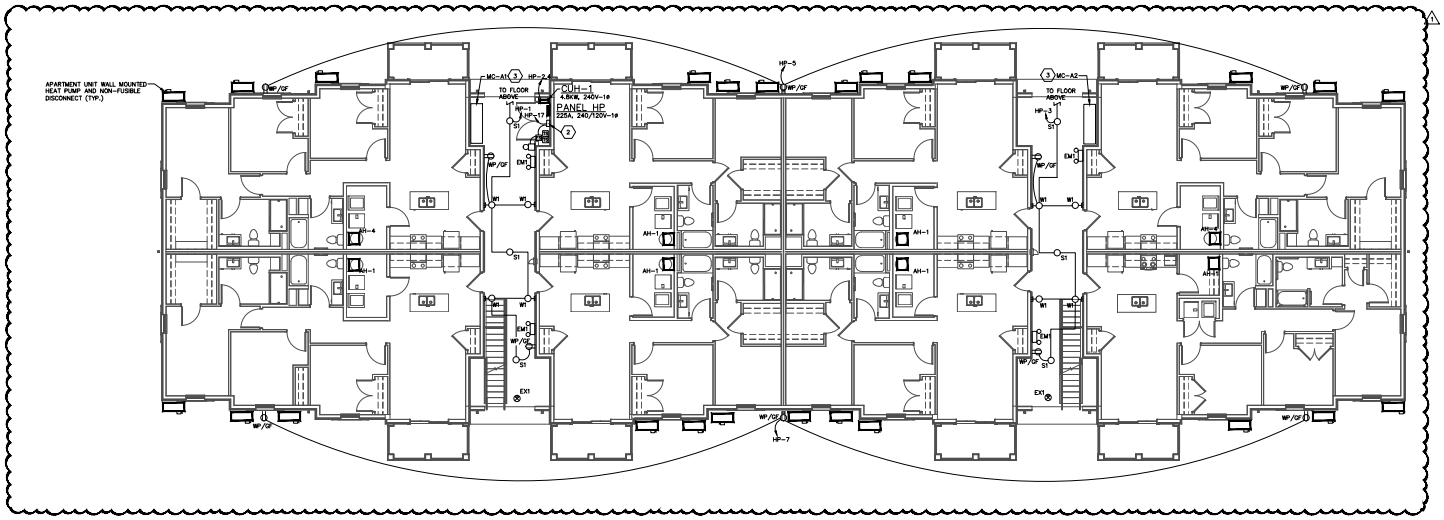
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

© 2024 MOODY NOLAN, INC.



LEVEL 02 ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE GO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED.

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

1 REFER TO SITE PLAN FOR LOCATIONS OF METER CENTERS AND WATER ROOM AND EQUIPMENT. LOCATION MAY VARY PER BUILDING.

CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE, #ST-15) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ON ROOF AND AIM NORTH.
2. PROVIDE FIRE ALARM SPRINKLER MONITORING PANEL. PROVIDE 2 PHONE LINES TO PANEL. COORDINATE INSTALLATION WITH OWNER. REFER TO SPECIFICATIONS AND WIRING DIAGRAM ON SHEET E-401 FOR MORE INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE
BUILDING B - LEVEL 01 & 02 ELECTRICAL PLANS

05/01/2025
23446
E103-B
CD PROGRESS SET

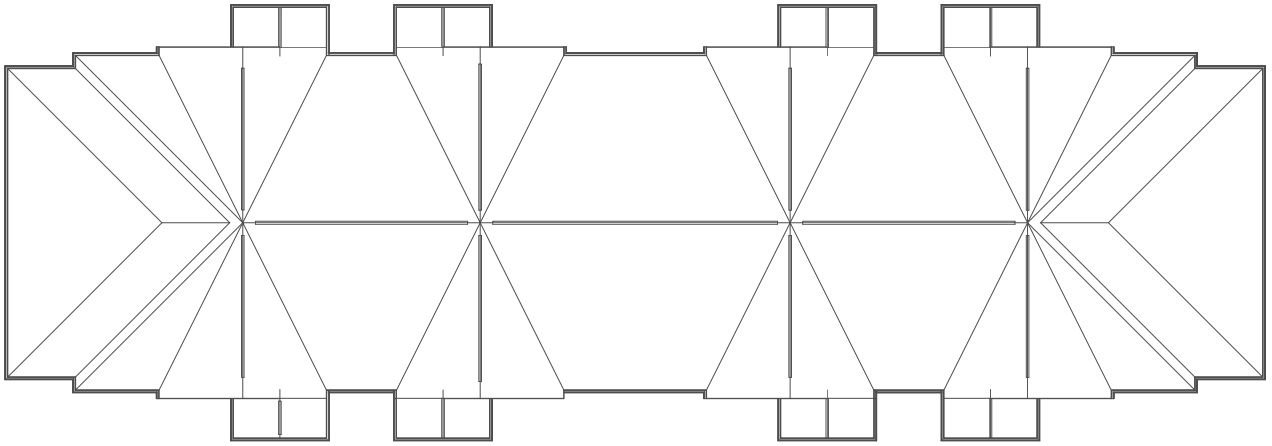
PROGRESS DRAWING NOT FOR CONSTRUCTION

E103-B-24217.DWG

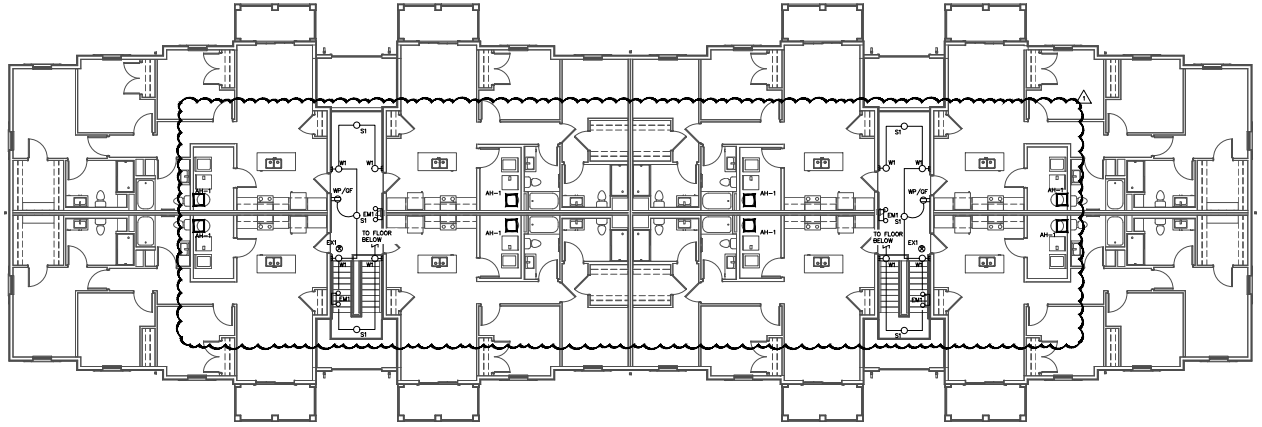
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

© 2024 MOODY NOLAN, INC.



ROOF ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"



LEVEL 03 ELECTRICAL PLAN – BUILDING B
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED..

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
EMPOWER. EMPATHIZE. COLLABORATE.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE
BUILDING B - LEVEL 03 & ROOF ELECTRICAL PLANS

E104-B-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4848
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

PROGRESS DRAWING NOT FOR CONSTRUCTION

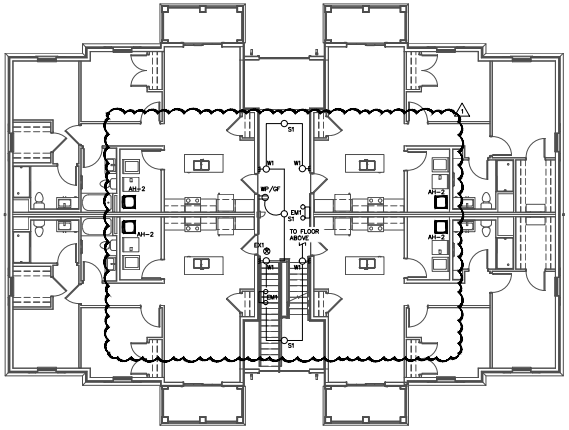
05/01/2025

23446

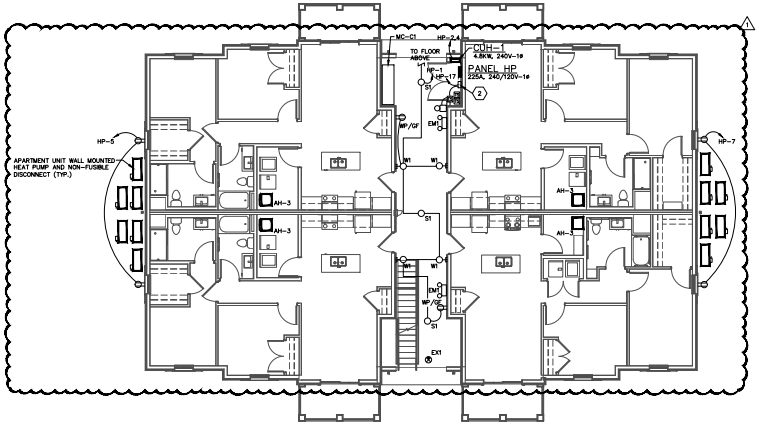
E104-B

CD PROGRESS SET

© 2024 MOODY NOLAN, INC.



LEVEL 02 ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECTS DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED.

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE #57-15) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ON ROOF AND AIM NORTH.

2. PROVIDE FIRE ALARM SPRINKLER MONITORING PANEL. PROVIDE 2 PHONE LINES TO PANEL. COORDINATE INSTALLATION WITH OWNER. REFER TO SPECIFICATIONS AND WIRING DIAGRAM ON SHEET E-401 FOR MORE INFORMATION.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 01 & 02 ELECTRICAL PLANS

05/01/2025
23446
E105-C
CD PROGRESS SET

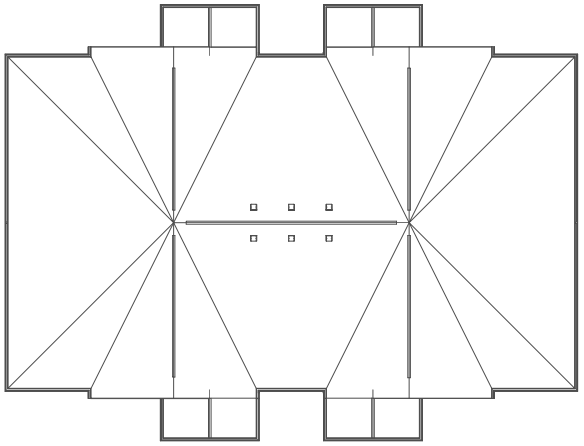
PROGRESS DRAWING NOT FOR CONSTRUCTION

E105-C-24217.DWG

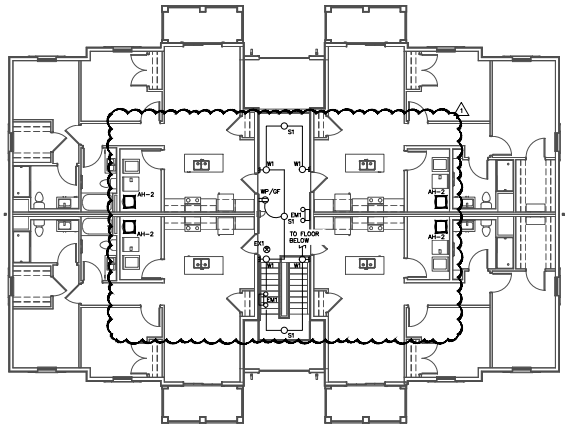
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

© 2024 MOODY NOLAN, INC.



ROOF ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"



LEVEL 03 ELECTRICAL PLAN – BUILDING C
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED.

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
BUILDING C - LEVEL 03 & ROOF ELECTRICAL PLANS

05/01/2025
23446
E106-C
CD PROGRESS SET

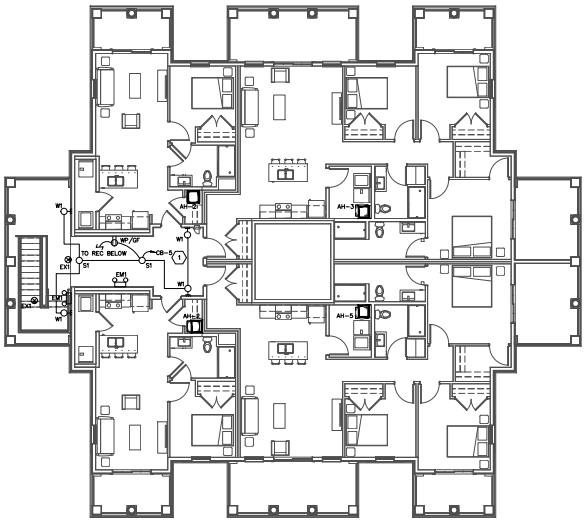
PROGRESS DRAWING NOT FOR CONSTRUCTION

E106-C-24217.DWG

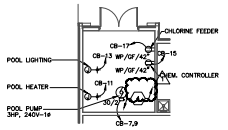
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

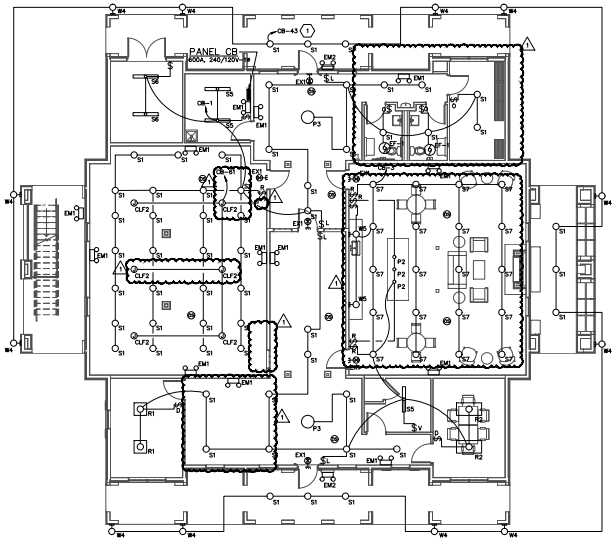
© 2024 MOODY NOLAN, INC.



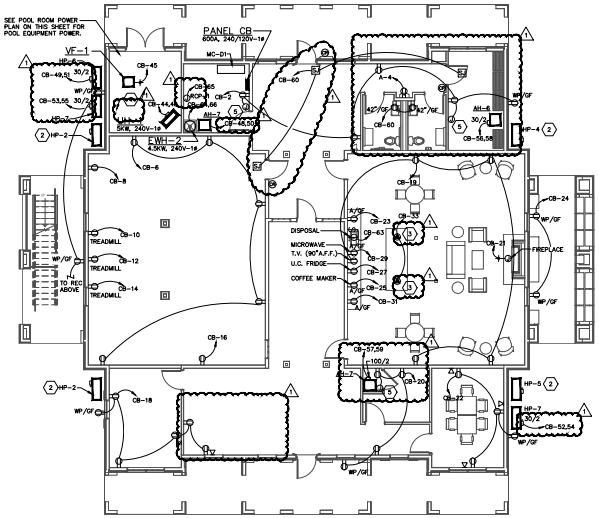
LEVEL 02 ELECTRICAL PLAN – BUILDING D
SCALE: 1/8"=1'-0"



POOL ROOM POWER PLAN
SCALE: 1/8"=1'-0"



LEVEL 01 LIGHTING PLAN – BUILDING D
SCALE: 1/8"=1'-0"



LEVEL 01 POWER PLAN – BUILDING D
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. COORDINATE THE MOUNTING HEIGHT AND LOCATIONS OF THE ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS AND GENERAL TRADES CONTRACTOR PRIOR TO ROUGH-IN. RECEPTACLES LOCATED WITHIN (6) SIX FEET OF A SINK SHALL BE GROUND FAULT INTERRUPTER (GFCI) TYPE RECEPTACLES. ALL RECEPTACLES IN KITCHENS, BREAK ROOMS, KITCHENETTES, ETC. SHALL BE GFCI PROTECTED. RECEPTACLES NOT READILY ACCESSIBLE THAT REQUIRE GFCI PROTECTION SHALL BE SO AT THE CIRCUIT BREAKER.

B. ALL BACKBOXES LOCATED IN RATED WALLS SHALL BE ENCASED IN FIRE PUTTY/SEALANT. ALL CONDUITS THAT PASS THROUGH RATED WALLS MUST BE FIRE SEALED ON BOTH SIDES OF THE WALL. COORDINATE WITH THE ARCHITECT'S DRAWINGS FOR LOCATIONS OF THE RATED WALLS.

C. VERIFY ALL NEMA CONFIGURATIONS OF ALL 240 VOLT RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

D. COORDINATE ALL RECEPTACLE AND SWITCH LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

E. COORDINATE WALL THICKNESS WITH GENERAL TRADES CONTRACTOR. PROVIDE ADAPTER RING APPROPRIATE FOR WALL THICKNESS AND CABINET BACK PANEL.

F. PROVIDE A JUNCTION BOX FOR ALL CAMERAS, WAPS, AND CARD READERS TO MOUNT TO. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. COORDINATE ALL ACCESS CONTROL REQUIREMENTS WITH SECURITY CONTRACTOR PRIOR TO ROUGH-IN.

G. ALL RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS OTHERWISE NOTED.

H. COORDINATE ALL ELECTRICAL CONNECTIONS FOR POOL EQUIPMENT WITH POOL CONTRACTOR PRIOR TO ROUGH-IN.

I. REFER TO E200 SERIES SHEETS FOR ENLARGED UNIT PLANS.

J. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

K. REFER TO ARCHITECTURAL UNIT ROP'S, CORRIDORS, AND AMENITY SPACES FOR THE EXACT LOCATIONS OF ALL LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF WALL MOUNTED LIGHT FIXTURES/SCONCES.

L. UNLESS OTHERWISE NOTED OR SHOWN SWITCHED, ALL EMERGENCY FIXTURES AND EXIT SIGNS SHALL BE WIRED AHEAD OF ROOM SWITCHING TO MONITOR THE LOCAL LIGHTING CIRCUIT. EMERGENCY FIXTURES SHALL AUTOMATICALLY ILLUMINATE UPON THE LOSS OF UTILITY POWER. WIRE LIGHTING FIXTURES AND EXIT SIGNS IN THE BREEZEWAYS TO REMAIN ILLUMINATED AS NIGHT LIGHTS.

M. COORDINATE POWER REQUIREMENTS AND WIRING FOR CARD READERS WITH MANUFACTURERS INSTRUCTIONS. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ACCESS CONTROL DETAIL ON SHEET E401 FOR MORE DETAILS.

N. PROVIDE SECURITY JUNCTION BOX FOR EACH ACCESS CONTROL DOOR. LOCATE SECURITY JUNCTION BOXES IN ACCESSIBLE AND SECURE LOCATION.

O. ALL RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

CODED NOTES ⬡

1. WIRE FIXTURES THROUGH PHOTOCELL FOR AUTOMATIC LIGHTING CONTROL. ELECTRICAL CONTRACTOR SHALL PROVIDE PHOTOCELL (EQUAL TO PRECISION MULTIPLE #GT-15) AND COORDINATE FINAL LOCATION WITH OWNER BASED ON BUILDING ORIENTATION. PHOTOCELL SHALL BE MOUNTED HIGH ENOUGH TO AVOID VANDALISM.
2. HEAT PUMP POWERED FROM APARTMENT UNIT PANEL ON THE SECOND FLOOR.
3. SURFACE MOUNTED POP-UP RECEPTACLE EQUAL TO HUBBELL #RC1620BK. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
4. COORDINATE ALL POOL POWER ROUGH-INS AND REQUIREMENTS WITH POOL CONTRACTOR PRIOR TO ORDERING EQUIPMENT. ALL WIRING DEVICES, SWITCHES, AND CONDUITS WITHIN POOL EQUIPMENT ROOM SHALL BE NEMA-4X, NON-METALLIC, AND CORROSION RESISTANT IN ACCORDANCE WITH NEC 680.12, 680.14, AND 300.6.
5. PROVIDE 120V CONNECTION TO OUTSIDE AIR FAN INTERLOCK FAN WITH AIR HANDLER. COORDINATE FINAL LOCATION WITH HVAC CONTRACTOR.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CREATING OPPORTUNITY. COLUMBUS.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE
BUILDING D - LEVEL 01 & 02 ELECTRICAL PLANS

05/01/2025
23446
E107-D
CD PROGRESS SET

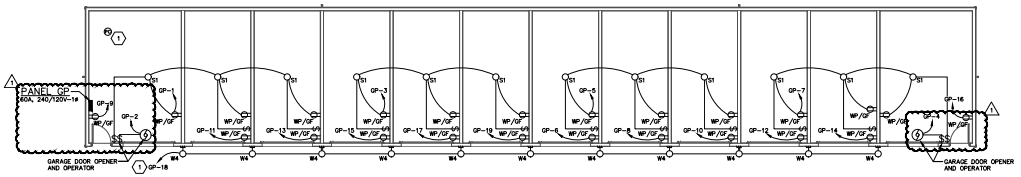
PROGRESS DRAWING NOT FOR CONSTRUCTION

E107-D-24217.DWG

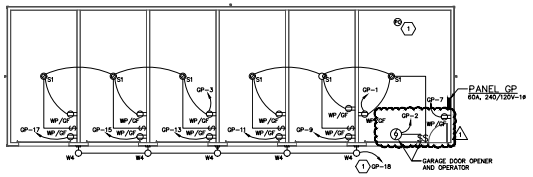
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

© 2024 MOODY NOLAN, INC.



LEVEL 01 ELECTRICAL PLAN – GARAGE G2
SCALE: 1/8"=1'-0"



LEVEL 01 ELECTRICAL PLAN – GARAGE G1
SCALE: 1/8"=1'-0"

GENERAL NOTES

A. ALL ELECTRICAL EQUIPMENT, LIGHTING FIXTURES, WIRING DEVICES, ETC. SHOWN ON THIS PLAN IN BOLD SOLID LINES ARE NEW UNLESS OTHERWISE NOTED.

B. BRANCH CIRCUITS HOMERUNS TO BE IN MC CONDUIT.

C. ALL EXPOSED CONDUIT IN ROOMS HAVING NO CEILINGS/EXPOSED STRUCTURE TO BE MC CONDUIT RUN MINIMUM OF 1.5" BELOW ROOF.

D. ALL BRANCH CIRCUIT CONDUCTORS/RACEWAY SHALL BE NEW, BACK TO SOURCE PANELBOARD.

CODED NOTES ⬡

1. RUN CIRCUIT THROUGH EXTERIOR PHOTOCELL FOR AUTOMATIC CONTROL. PROVIDE EXTERIOR LIGHTING PHOTOCELL TO CONTROL EXTERIOR FIXTURES, EQUAL TO PRECISION #ST-10, MOUNT HIGH ON THE NORTH SIDE OF THE BUILDING FOR MAXIMUM EXPOSURE TO SUN AND OUT OF SITE FROM PUBLIC. COORDINATE FINAL LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO.: FIRM 00197475

DRAWING TITLE:
GARAGE BUILDING ELECTRICAL PLANS

05/01/2025
23446
E-108
CD PROGRESS SET

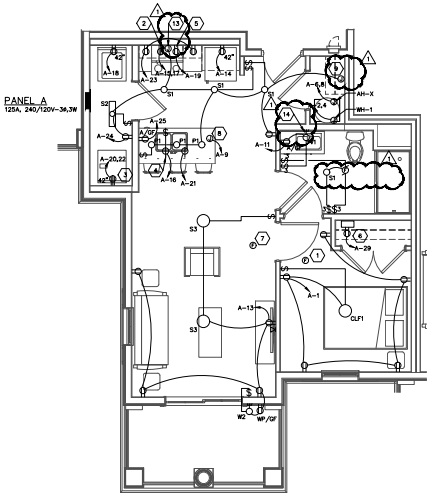
PROGRESS DRAWING NOT FOR CONSTRUCTION

E108-G-24217.DWG

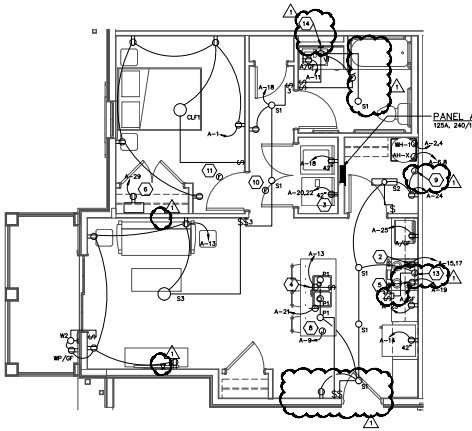
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2254

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

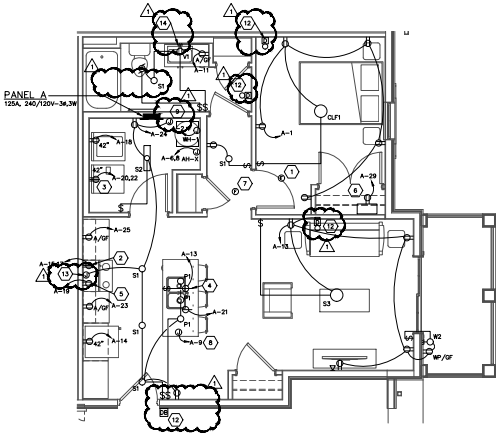
© 2024 MOODY NOLAN, INC.



1 BEDROOM CLUBHOUSE
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE A
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



1 BEDROOM ANSI TYPE B
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL NEMA CONFIGURATIONS OF ALL 208V RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

C. ALL 15-AMP AND 20-AMP 120 VOLT CIRCUIT BREAKERS SHALL BE AFCI UNLESS NOTED OTHERWISE. ALL KITCHEN CIRCUIT BREAKERS AND LAUNDRY CIRCUIT BREAKERS SHALL BE DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKERS UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI TYPE RECEPTACLES FOR ALL BATHROOM OUTLETS, MOUNT ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE.

E. COORDINATE ALL RECEPTACLE LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

F. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

G. EACH UNIT ELECTRICAL PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ELECTRICAL ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWING FOR EACH UNIT.

H. COORDINATE ALL KITCHEN ELECTRICAL OUTLET LOCATIONS WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS.

I. ALL OUTLETS IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.

J. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SWITCH LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

L. RECEPTACLE FOR REFRIGERATOR SHALL BE MOUNTED AT 42" AND PROVIDED WITH A GFCI CIRCUIT BREAKER.

M. RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

N. ALL SWITCHES IN APARTMENT UNITS SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD115W. THREE WAY SWITCHES SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD315W.

O. PANELBOARDS IN ALL ANSI TYPE A AND ANSI TYPE B UNITS SHALL BE MOUNTED SO THAT THE HIGHEST OPERABLE PART IS AT 48" A.F.F.

P. REFER TO BUILDING FLOORPLAN AND HVAC SHEETS FOR AIR HANDLER TYPE.

CODED NOTES ⬡

1. CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #5120B OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN A UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
2. PROVIDE 50A, 240V 14-50R RECEPTACLE FOR RANGE. MOUNT AT 42" A.F.F.
3. PROVIDE 30A, 240V 14-30R RECEPTACLE FOR DRYER. MOUNT AT 42" A.F.F.
4. GFCI RECEPTACLE IN BASE CABINET FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. DISPOSAL TO BE OPERATED BY PLUG IN AIR SWITCH PROVIDED BY PLUMBING CONTRACTOR. DISPOSAL SWITCH MOUNTED INSIDE CABINET. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. RECEPTACLE FOR MICROWAVE MOUNTED ABOVE COUNTER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMEX SOHO PRO P300 FLUSH BOX FOR TELEPHONE/CCTV WITH (1) 1" CONDUIT FROM BOX OUT TO ABOVE CORRIDOR CEILING. PROVIDE RECEPTACLE INSIDE MEDIA BOX, MOUNT AT 90" A.F.F. COORDINATE CONDUIT ROUTING WITH OWNER AND GENERAL CONTRACTOR.
7. CEILING MOUNTED COMBINATION SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #SC7010B AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
8. PROVIDE JUNCTION BOX INSIDE CASEWORK WITH #12 AWG AND #12 AWG CONDUIT FOR FUTURE USE. COUNTER TOP RECEPTACLE. COORDINATE EXACT LOCATION OF JUNCTION BOX FOR FUTURE USE. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE 120V CONNECTION TO OUTSIDE AIR FAN. INTERLOCK FAN WITH AIR HANDLER. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
10. FOR ADA TYPE A UNITS ONLY, PROVIDE CEILING MOUNTED COMBINATION PHOTOELECTRIC SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK#7030BSL AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.

    FOR ADA TYPE A UNITS ONLY, PROVIDE CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK#7030BSL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.

    IN SENSORY TYPE UNITS ONLY: PROVIDE EDWARDS 7005-05 24 VOLT VISUAL DOORBELL SYSTEM OR EQUAL. LOCATE TRANSFORMER IN FLUSH MOUNTED JUNCTION BOX BEHIND DOOR CHIME, MOUNT AT 80" PROVIDE 120V CONNECTION TO TRANSFORMER. PROVIDE EDWARDS 620 PUSHBUTTON AT 42" ADJACENT TO FRONT DOOR. PROVIDE EDWARDS 80 SERIES CHIME IN LIVING ROOM, MASTER BEDROOM, BATHROOM, AND BEDROOM, AND LOW VOLTAGE WIRING BACK TO THE TRANSFORMER. COORDINATE WITH ARCHITECT FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN. COORDINATE DEVICE COLOR, FINISHES, AND COVER PLATES WITH ARCHITECT PRIOR TO ORDERING. REFER TO ARCHITECTURAL SHEET G011 FOR LOCATION AND QUANTITY OF SENSORY UNITS.
11. PROVIDE 120V CONNECTION TO RANGE HOOD. IN ADA UNITS ONLY, PROVIDE REMOTE SWITCHING IN ADJACENT CABINET FOR LIGHTING AND LOW-HIGH/OFF FAN CONTROL. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
12. PROVIDE JUNCTION BOX BEHIND VANITY MIRROR FOR 120V CONNECTION. SEE MANUFACTURER INSTRUCTION FOR INSTALLATION REQUIREMENTS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE
ENLARGED UNIT ELECTRICAL PLANS

05/01/2025
23446
E-200
CD PROGRESS SET

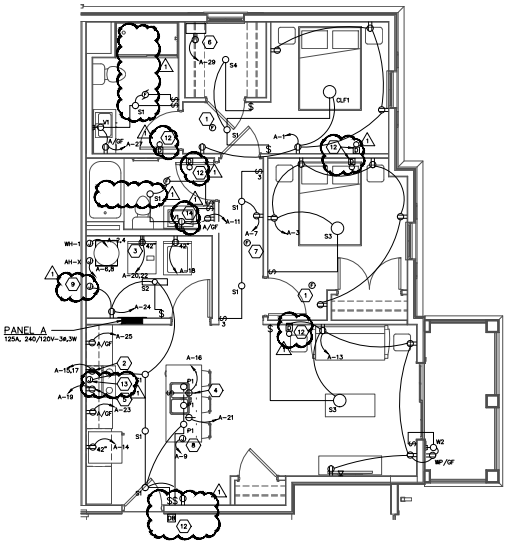
PROGRESS DRAWING NOT FOR CONSTRUCTION

E-200-24217.DWG

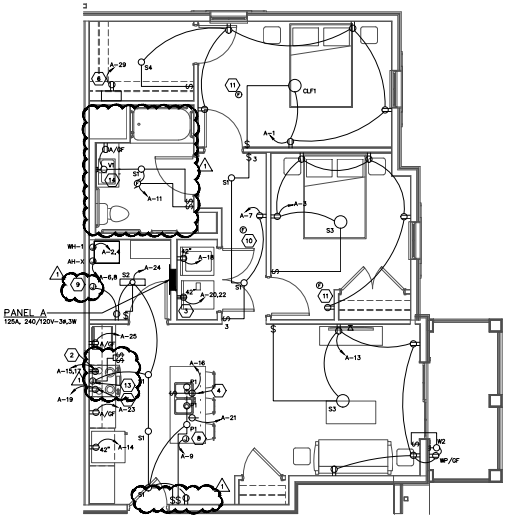
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	–	24217

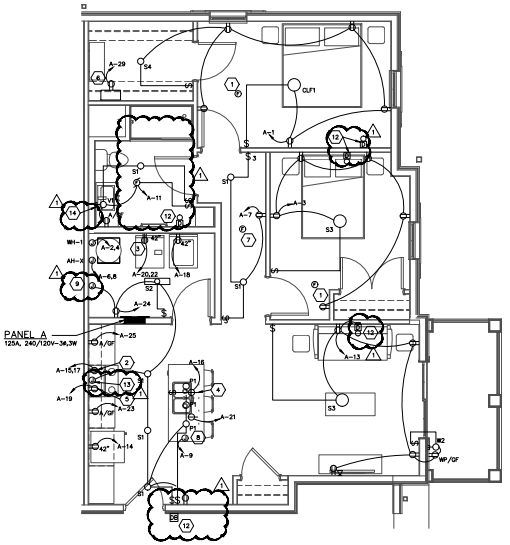
© 2024 MOODY NOLAN, INC.



2 BEDROOM 2 BA
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE A
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



2 BEDROOM ANSI TYPE B
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL NEMA CONFIGURATIONS OF ALL 208V RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

C. ALL 15-AMP AND 20-AMP 120 VOLT CIRCUIT BREAKERS SHALL BE AFCI UNLESS NOTED OTHERWISE. ALL KITCHEN CIRCUIT BREAKERS AND LAUNDRY CIRCUIT BREAKERS SHALL BE DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKERS UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI TYPE RECEPTACLES FOR ALL BATHROOM OUTLETS, MOUNT ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE.

E. COORDINATE ALL RECEPTACLE LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

F. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

G. EACH UNIT ELECTRICAL PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ELECTRICAL ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWING FOR EACH UNIT.

H. COORDINATE ALL KITCHEN ELECTRICAL OUTLET LOCATIONS WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS.

I. ALL OUTLETS IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.

J. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SWITCH LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

L. RECEPTACLE FOR REFRIGERATOR SHALL BE MOUNTED AT 42" AND PROVIDED WITH A GFCI CIRCUIT BREAKER.

M. RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

N. ALL SWITCHES IN APARTMENT UNITS SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD115W. THREE WAY SWITCHES SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD315W.

O. PANELBOARDS IN ALL ANSI TYPE A AND ANSI TYPE B UNITS SHALL BE MOUNTED SO THAT THE HIGHEST OPERABLE PART IS AT 48" A.F.F.

P. REFER TO BUILDING FLOORPLAN AND HVAC SHEETS FOR AIR HANDLER TYPE.

CODED NOTES ⬡

1. CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #5120B OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN A UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
2. PROVIDE 50A, 240V 14-50R RECEPTACLE FOR RANGE, MOUNT AT 42" A.F.F.
3. PROVIDE 30A, 240V 14-30R RECEPTACLE FOR DRYER. MOUNT AT 42" A.F.F.
4. GFCI RECEPTACLE IN BASE CABINET FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. DISPOSAL TO BE OPERATED BY PLUG IN AIR SWITCH PROVIDED BY PLUMBING CONTRACTOR. DISPOSAL SWITCH MOUNTED INSIDE CABINET, COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. RECEPTACLE FOR MICROWAVE MOUNTED ABOVE COUNTER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMEX SOHO PRO P300 FLUSH BOX FOR TELEPHONE/CCTV WITH (1) 1" CONDUIT FROM BOX OUT TO ABOVE CORRIDOR CEILING. PROVIDE RECEPTACLE INSIDE MEDIA BOX, MOUNT AT 80" A.F.F. COORDINATE CONDUIT ROUTING WITH OWNER AND GENERAL CONTRACTOR.
7. CEILING MOUNTED COMBINATION SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #SC7010B AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
8. PROVIDE JUNCTION BOX INSIDE CASEWORK WITH #12 AWG AND #12 AWG FOR FUTURE USE. COUNTER TOP RECEPTACLE. COORDINATE EXACT LOCATION OF JUNCTION BOX FOR FUTURE USE. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE 120V CONNECTION TO OUTSIDE AIR FAN. INTERLOCK FAN WITH AIR HANDLER. COORDINATE FINAL LOCATION WITH MECHANICAL.

⚠ FOR ADA TYPE A UNITS ONLY, PROVIDE CEILING MOUNTED COMBINATION PHOTOELECTRIC SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK#SC7030BSS, AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.

FOR ADA TYPE A UNITS ONLY, PROVIDE CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK#7030BSL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.

IN SENSORY TYPE UNITS ONLY: PROVIDE EDWARDS 7005-05 24 VOLT NASHAL DOORBELL SYSTEM OR EQUAL. LOCATE TRANSFORMER IN FLUSH MOUNTED JUNCTION BOX BEHIND DOOR CHIME, MOUNT AT 80". PROVIDE 120V CONNECTION TO TRANSFORMER. PROVIDE EDWARDS 620 PUSHBUTTON AT 42" ADJACENT TO FRONT DOOR. PROVIDE EDWARDS 80 SERIES CHIME AT LIVING ROOM, BEDROOM, BATHROOM, AND BEDROOM, AND LOW VOLTAGE WIRING BACK TO THE TRANSFORMER. COORDINATE WITH ARCHITECT FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN. COORDINATE DEVICE COLOR, FINISHES, AND COVER PLATES WITH ARCHITECT PRIOR TO ORDERING. REFER TO ARCHITECTURAL SHEET G011 FOR LOCATION AND QUANTITY OF SENSORY UNITS.

10. PROVIDE 120V CONNECTION TO RANGE HOOD. IN ADA UNITS ONLY, PROVIDE REMOTE SWITCHING IN ADJACENT CABINET FOR LIGHTING AND LOW/HIGH/OFF FAN CONTROL. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
11. PROVIDE JUNCTION BOX BEHIND VANITY MIRROR FOR 120V CONNECTION. SEE MANUFACTURER INSTRUCTION FOR INSTALLATION REQUIREMENTS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE
ENLARGED UNIT ELECTRICAL PLANS

05/01/2025
23446
E-201
CD PROGRESS SET

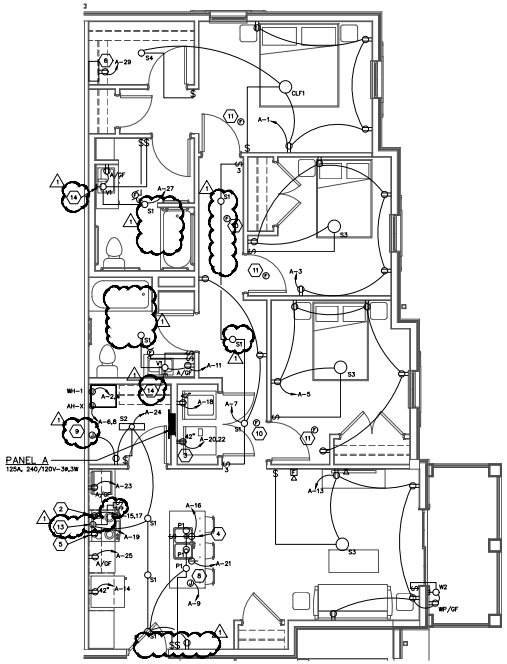
PROGRESS DRAWING NOT FOR CONSTRUCTION

E-201-24217.DWG

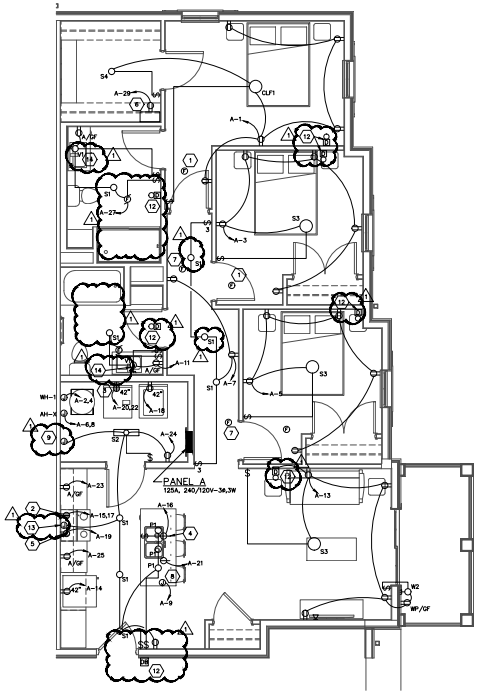
PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	--	24217

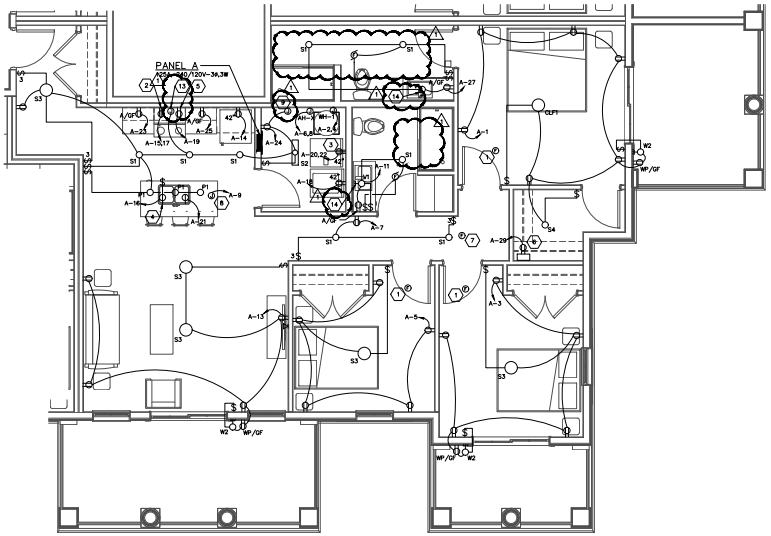
© 2024 MOODY NOLAN, INC.



3 BEDROOM ANSI TYPE A
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM
ELECTRICAL UNIT PLAN
SCALE: 1/4"=1'-0"



3 BEDROOM CLUBHOUSE
ELECTRICAL PLAN
SCALE: 1/4"=1'-0"

GENERAL NOTES

A. COORDINATE EXACT LOCATION OF ALL LIGHT FIXTURES WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

B. ELECTRICAL CONTRACTOR SHALL VERIFY ALL NEMA CONFIGURATIONS OF ALL 208V RECEPTACLES PRIOR TO ORDERING/ROUGH-IN.

C. ALL 15-AMP AND 20-AMP 120 VOLT CIRCUIT BREAKERS SHALL BE AFCI UNLESS NOTED OTHERWISE. ALL KITCHEN CIRCUIT BREAKERS AND LAUNDRY CIRCUIT BREAKERS SHALL BE DUAL FUNCTION AFCI/GFCI CIRCUIT BREAKERS UNLESS NOTED OTHERWISE.

D. ELECTRICAL CONTRACTOR SHALL PROVIDE GFCI TYPE RECEPTACLES FOR ALL BATHROOM OUTLETS, MOUNT ABOVE COUNTER BACKSPLASH UNLESS NOTED OTHERWISE.

E. COORDINATE ALL RECEPTACLE LOCATIONS IN AND ABOVE CABINETRY WITH OWNER/DEVELOPER PRIOR TO ROUGH-IN.

F. OUTLET BOXES FOR LIGHT FIXTURES SHALL BE STANDARD OCTAGONAL.

G. EACH UNIT ELECTRICAL PLAN REPRESENTS MULTIPLE APARTMENT UNITS WITH SIMILAR LAYOUTS. COORDINATE EXACT UNIT LAYOUT INCLUDING ELECTRICAL ROUGH-INS WITH ARCHITECTURAL AND STRUCTURAL DRAWING FOR EACH UNIT.

H. COORDINATE ALL KITCHEN ELECTRICAL OUTLET LOCATIONS WITH OWNER/DEVELOPER AND ARCHITECTURAL PLANS.

I. ALL OUTLETS IN DWELLING UNITS SHALL BE TAMPER-RESISTANT TYPE.

J. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE RATED PUTTY PADS ON ALL JUNCTION BOXES LOCATED IN FIRE RATED WALLS.

K. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL SWITCH LOCATIONS WITH FRAMING MEMBERS PRIOR TO ROUGH-IN.

L. RECEPTACLE FOR REFRIGERATOR SHALL BE MOUNTED AT 42" AND PROVIDED WITH A GFCI CIRCUIT BREAKER.

M. RECEPTACLES WITH SUBSCRIPT "A" SHALL BE MOUNTED ABOVE THE COUNTER. COORDINATE EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.

N. ALL SWITCHES IN APARTMENT UNITS SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD115W. THREE WAY SWITCHES SHALL BE ROCKER SWITCHES EQUAL TO HUBBELL #RSD315W.

O. PANELBOARDS IN ALL ANSI TYPE A AND ANSI TYPE B UNITS SHALL BE MOUNTED SO THAT THE HIGHEST OPERABLE PART IS AT 48" A.F.F.

P. REFER TO BUILDING FLOORPLAN AND HVAC SHEETS FOR AIR HANDLER TYPE.

CODED NOTES ⬡

1. CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #S120B OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN A UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
2. PROVIDE 50A, 240V 14-50R RECEPTACLE FOR RANGE. MOUNT AT 42" A.F.F.
3. PROVIDE 30A, 240V 14-30R RECEPTACLE FOR DRYER. MOUNT AT 42" A.F.F.
4. GFCI RECEPTACLE IN BASE CABINET FOR GARBAGE DISPOSAL. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. DISPOSAL TO BE OPERATED BY PLUG IN AIR SWITCH PROVIDED BY PLUMBING CONTRACTOR. DISPOSAL SWITCH MOUNTED INSIDE CABINET. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
5. RECEPTACLE FOR MICROWAVE MOUNTED ABOVE COUNTER. VERIFY THE FINAL MOUNTING HEIGHT WITH THE GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE PRIMEX SOHO PRO P300 FLUSH BOX FOR TELEPHONE/CCTV WITH (1) 1" CONDUIT FROM BOX OUT TO ABOVE CORRIDOR CEILING. PROVIDE RECEPTACLE INSIDE MEDIA BOX, MOUNT AT 80" A.F.F. COORDINATE CONDUIT ROUTING WITH OWNER AND GENERAL CONTRACTOR.
7. CEILING MOUNTED COMBINATION SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK #SC7010B AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.
8. PROVIDE JUNCTION BOX INSIDE CASEWORK WITH #12 AWG AIR #12 AWG CONDUCTORS FOR FUTURE USE. COUNTER TOP RECEPTACLE. COORDINATE EXACT LOCATION OF JUNCTION BOX FOR FUTURE USE. COORDINATE EXACT LOCATION OF JUNCTION BOX WITH ARCHITECT PRIOR TO ROUGH-IN.
9. PROVIDE 120V CONNECTION TO OUTSIDE AIR FAN. INTERLOCK FAN WITH AIR HANDLER. COORDINATE FINAL LOCATION WITH MECHANICAL DRAWINGS.
10. FOR ADA TYPE A UNITS ONLY, PROVIDE CEILING MOUNTED COMBINATION PHOTOELECTRIC SMOKE/CO DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK#SC7010BSL AND RELAY #RM4 OR EQUAL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. RM4 RELAY SHALL BE MOUNTED NEAR AHU UNIT FOR TIE-IN. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.

FOR ADA TYPE A UNITS ONLY, PROVIDE CEILING MOUNTED SMOKE DETECTOR, 120 VOLT WITH BATTERY BACK-UP. BRK#7020BSL. EXTEND CIRCUIT TO NEAREST 120 VOLT POWER SUPPLY AND MAKE FINAL CONNECTIONS. ALL SMOKE DETECTORS WITHIN AN APARTMENT UNIT SHALL BE INTERLOCKED TO PROVIDE SIMULTANEOUS ALARMING.

IN SENSORY TYPE UNITS ONLY: PROVIDE EDWARDS 7005-05 24 VOLT VISUAL DOORBELL SYSTEM OR EQUAL. LOCATE TRANSFORMER IN FLUSH MOUNTED JUNCTION BOX BEHIND DOOR CHIME, MOUNT AT 80"C. PROVIDE 120V CONNECTION TO TRANSFORMER. PROVIDE EDWARDS 620 PUSHBUTTON AT 42" ADJACENT TO FRONT DOOR. PROVIDE EDWARDS 80 SERIES CHIME IN LIVING ROOM, PROVIDE EDWARDS 80 IN BATHROOM, AND BEDROOM, AND LOW VOLTAGE WIRING BACK TO THE TRANSFORMER. COORDINATE WITH ARCHITECT FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN. COORDINATE DEVICE COLOR, FINISHES, AND COVER PLATES WITH ARCHITECT PRIOR TO ORDERING. REFER TO ARCHITECTURAL SHEET G011 FOR LOCATION AND QUANTITY OF SENSORY UNITS.

PROVIDE 120V CONNECTION TO RANGE HOOD. IN ADA UNITS ONLY, PROVIDE REMOTE SWITCHING IN ADJACENT CABINET FOR LIGHTING AND LOW/HIGH/OFF FAN CONTROL. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

PROVIDE JUNCTION BOX BEHIND VANITY MIRROR FOR 120V CONNECTION. SEE MANUFACTURER INSTRUCTION FOR INSTALLATION REQUIREMENTS.

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY

THE FALLS ON REFUGEE ROAD
3305 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO: FIRM 00197475

DRAWING TITLE
ENLARGED UNIT ELECTRICAL PLANS

05/01/2025
23446
E-202
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

E-202-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	--	24217

© 2024 MOODY NOLAN INC.

Mixed Use

Per NEC Article 220.82 (A), (B), & (C)

Apartment Load Tabulations

PANELBOARD/FEEDER SIZE	125 AMPS	125 AMPS	150 AMPS	125 AMPS	125 AMPS	125 AMPS	125 AMPS	125 AMPS	150 AMPS
UNIT TYPE/AH SIZE	1 Bed - AH-1	1 Bed - AH-2	1 Bed - AH-3	2 Bed - AH-1	2 Bed - AH-2	3 Bed - AH-1	3 Bed - AH-2	3 Bed - AH-4	3 Bed - AH-5
UNIT AREA (SQ. FT) =	673	673	673	945	945	1,209	1,209	1,270	
SQ. FT x 3VA =	2,019	2,019	2,019	2,835	2,835	3,627	3,627	3,810	
2 SMALL APPLIANCE CKT =	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
LAUNDRY =	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	
WATER HEATER =	4,500	4,500	4,500	4,500	4,500	4,500	4,500	4,500	
DISPOSAL =	864	864	864	864	864	864	864	864	
DISHWASHER =	1,400	1,400	1,400	1,400	1,400	1,400	1,400	1,400	
DRYER =	3,500	3,500	3,500	3,500	3,500	3,500	3,500	3,500	
RANGE = +	8,000	8,000	+ 8,000	+ 8,000	+ 8,000	+ 8,000	+ 8,000	+ 8,000	+ 8,000
TOTAL =	24,783	24,783	25,599	25,599	25,599	26,391	26,391	26,574	
1ST 10KVA @ 100% =	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	
REMAINDER @ 40% = +	5,913	+ 5,913	+ 5,913	+ 6,240	+ 6,240	+ 6,556	+ 6,556	+ 6,630	
TOTAL =	15,913	15,913	15,913	16,240	16,240	16,556	16,556	16,630	
FURNACE MOTOR =	603	603	603	603	603	603	603	603	
FURNACE HEAT =	5,000	7,500	10,000	5,000	5,000	5,000	5,000	10,000	
HEAT PUMP = +	3,840	+ 3,840	+ 4,560	+ 3,840	+ 3,840	+ 3,840	+ 3,840	+ 4,560	
PANEL DEMAND LOAD =	25,356 VA	27,856 VA	31,076 VA	25,983 VA	26,183 VA	25,999 VA	25,999 VA	31,793 VA	
PANEL DEMAND LOAD/240 VOLTS =	105.7 AMPS	116.1 AMPS	129.5 AMPS	107.0 AMPS	117.4 AMPS	108.3 AMPS	108.3 AMPS	132.5 AMPS	
PANEL CONNECTED LOAD =	34,226 VA	36,726 VA	39,946 VA	35,042 VA	37,542 VA	35,834 VA	35,834 VA	41,737 VA	

MC-A1

VA	QTY	TYPE
205,356	6	1 Bed - AH-1
225,252	6	2 Bed - AH-2
20,500		Panel HP
430,608	12	TOTAL
1,794.2 A		
197,049.28 VA (Demand)		
821.0 A (Demand)		
41 Factor		

MC-B1

VA	QTY	TYPE
210,252	6	2 Bed - AH-1
215,004	6	3 Bed - AH-1
20,500		Panel HP
425,256	12	TOTAL
1,771.9 A		
194,854.96 VA (Demand)		
811.9 A (Demand)		
41 Factor		

MC-C1

VA	QTY	TYPE
450,504	12	2 Bed - AH-2
20,500		Panel HP
450,504	12	TOTAL
1,877.1 A		
205,206.64 VA (Demand)		
855.0 A (Demand)		
41 Factor		

MC-D1

VA	QTY	TYPE
41,737	1	3 Bed - AH-5
36,726	1	1 Bed - AH-2
35,834	1	3 Bed - AH-2
39,946	1	1 Bed - AH-3
154,243	4	TOTAL
428.1 A		
69,409 VA (Demand)		
289.2 A (Demand)		
45 Factor		

MC-A2

VA	QTY	TYPE
205,356	6	1 Bed - AH-1
-		
225,252	6	2 Bed - AH-2
430,608	12	TOTAL
1,794.2 A		
178,549.28 VA (Demand)		
735.6 A (Demand)		
41 Factor		

MC-B2

VA	QTY	TYPE
210,252	6	2 Bed - AH-1
215,004	6	3 Bed - AH-1
425,256	12	TOTAL
1,771.9 A		
174,354.96 VA (Demand)		
726.5 A (Demand)		
41 Factor		

Panel ID: A — Voltage: 240 / 120 — Panel Type: APARTMENT LOADCENTER
Location: ELECTRICAL ROOM — Phase: 1 — Enclosure: NEMA 1
Mounting: SURFACE — Wire: 3
Main Type: MLO — Main Size: * Amps

All 15 Amp and 20 Amp 120V circuit breakers shall be AFCI or AFCI/GFCI combination breakers if GF is specified.
Provide Internal SPD.
All circuit breakers shall be standard bolt-on type, unless noted otherwise.
* = See Apartment Load Tabulation chart on sheet E-302 for panelboard lug size.
** = Refer to air handler/heat pump electrical requirements on sheet E-302 for circuit breaker and wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	MASTER BEDROOM	20/1	-	0.000	1	A	2	0.000	-	30/2	WH-1	10	10
12	12	BEDROOM 2	20/1	-	0.000	3	B	4	0.000	-	-	-	10	-
12	12	BEDROOM 3	20/1	-	0.000	5	A	6	0.000	-	**	AH-XX	**	**
12	12	HALL REC/LTG	20/1	-	0.000	7	B	8	0.000	-	-	-	**	-
12	12	FUTURE ISLAND POWER	20/1	GF	0.000	9	A	10	0.000	-	**	HP-XX	**	**
12	12	BATHROOM LTG/REC	20/1	-	0.000	11	B	12	0.000	-	-	-	**	-
12	12	LIVING RM REC/LTG	20/1	-	0.000	13	A	14	0.000	GF	20/1	REFRIGERATOR	12	12
10	6	RANGE	50/2	GF	0.000	15	B	16	0.000	GF	20/1	DISPOSAL	12	12
-	6	-	-	-	0.000	17	A	18	0.000	GF	20/1	WASHER	12	12
12	12	MICROWAVE	20/1	GF	0.000	19	B	20	0.000	GF	30/2	DRYER	10	10
12	12	DISHWASHER	20/1	GF	0.000	21	A	22	0.000	-	-	-	10	-
12	12	KITCHEN REC	20/1	-	0.000	23	B	24	0.000	-	20/1	KITCHEN/LAUNDRY	12	12
12	12	KITCHEN REC	20/1	-	0.000	25	A	26	0.000	-	20/1	SPARE	-	-
12	12	MASTER BATHROOM	20/1	-	0.000	27	B	28	0.000	-	-	INTERNAL SPD	-	-
12	12	MEDIA PANEL	20/1	-	0.000	29	A	30	0.000	-	-	-	-	-

See Apartment load tabulations on sheet E-302 for load information.

Breaker Options (If Used):
TC - Time Clock Control
LO - Lock-On Device
GF - GND Fault CKT Interrupter
E - Existing to Remain
SH - Shunt Trip Breaker

Panel ID: GP — Voltage: 240 / 120 — Panel Type: LIGHTING AND POWER PANEL
Location: GARAGE — Phase: 1 — Enclosure: NEMA 1
Mounting: SURFACE — Wire: 3
Main Type: MCB — Main Size: 60 Amps

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
** = Refer to one line diagram for wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	GARAGE 1-3	20/1	-	0.582	1	A	2	0.700	-	20/1	GARAGE DOOR 1	12	12
12	12	GARAGE 4-6	20/1	-	0.582	3	B	4	0.700	-	20/1	GARAGE DOOR 12	12	12
12	12	GARAGE 7-9	20/1	-	0.582	5	A	6	0.180	-	20/1	GARAGE 7 REC	12	12
12	12	GARAGE 10-12	20/1	-	0.582	7	B	8	0.180	-	20/1	GARAGE 8 REC	12	12
12	12	GARAGE 1 REC	20/1	-	0.180	9	A	10	0.180	-	20/1	GARAGE 9 REC	12	12
12	12	GARAGE 2 REC	20/1	-	0.180	11	B	12	0.180	-	20/1	GARAGE 10 REC	12	12
12	12	GARAGE 3 REC	20/1	-	0.180	13	A	14	0.180	-	20/1	GARAGE 11 REC	12	12
12	12	GARAGE 4 REC	20/1	-	0.180	15	B	16	0.180	-	20/1	GARAGE 12 REC	12	12
12	12	GARAGE 5 REC	20/1	-	0.180	17	A	18	0.100	-	20/1	EXTERIOR LTG	12	12
12	12	GARAGE 6 REC	20/1	-	0.180	19	B	20	0.000	-	20/1	SPARE	-	-
-	-	SPACE	-	-	0.000	21	A	22	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	23	B	24	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	25	A	26	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	27	B	28	0.000	-	-	SPACE	-	-
-	-	SPACE	-	-	0.000	29	A	30	0.000	-	-	SPACE	-	-

Demand Load Panel Summary: 6.0 KVA; 25.0 AMPS
Connected Load Panel Summary: Phase A: 3.0 KVA, 25.4 AMPS; Phase B: 2.9 KVA, 24.5 AMPS; Total: 6.0 KVA, 25.0 AMPS
Breaker Options (If Used): TC - Time Clock Control; LO - Lock-On Device; GF - GND Fault CKT Interrupter; E - Existing to Remain; SH - Shunt Trip Breaker

Panel ID: CB — Voltage: 240 / 120 — Panel Type: POWER AND LIGHTING PANEL
Location: ELECTRICAL ROOM — Phase: 1 — Enclosure: NEMA 1
Mounting: SURFACE — Wire: 3
Main Type: MCB — Main Size: 600 Amps

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
** = Refer to one line diagram for wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	NW INTERIOR LTG	20/1	-	0.900	1	A	2	0.900	-	20/1	NORTH GEN. REC	12	12
12	12	SE INTERIOR LTG	20/1	-	0.900	3	B	4	0.600	GF	20/1	DRINKING FOUNTAIN	12	12
12	12	2F HALL REC/LTG	20/1	-	0.500	5	A	6	0.900	-	20/1	FITNESS RM REC	12	12
12	10	POOL PUMP	30/2	-	2.040	7	B	8	1.920	-	20/1	EXERCISE BIKE	12	12
-	10	-	-	-	2.040	9	A	10	1.920	-	20/1	TREADMILL	12	12
12	12	POOL HEATER	20/1	-	0.240	11	B	12	1.920	-	20/1	TREADMILL	12	12
12	12	POOL LIGHTING	20/1	-	0.300	13	A	14	1.920	-	20/1	TREADMILL	12	12
12	12	CHEM. CONTROLLER	20/1	-	0.360	15	B	16	1.920	-	20/1	EXERCISE BIKE	12	12
12	12	CHLORINE FEEDER	20/1	-	1.820	17	A	18	1.080	-	20/1	OFFICE REC	12	12
12	12	COMM. RM. REC	20/1	-	0.900	19	B	20	0.720	-	20/1	SOUTH GEN. REC	12	12
12	12	GAS FIREPLACE	20/1	-	0.360	21	A	22	0.540	-	20/1	CONFERENCE RM REC	12	12
12	12	COUNTER REC	20/1	-	0.180	23	B	24	0.360	-	20/1	EXTERIOR REC	12	12
12	12	COFFEE MAKER	20/1	-	1.200	25	A	26	0.200	-	20/1	POOL BOLLARDS	12	12
12	12	U.C. FRIDGE	20/1	GF	0.900	27	B	28	0.200	-	20/1	EXTERIOR BOLLARDS	12	12
12	12	MICROWAVE	20/1	-	1.200	29	A	30	0.200	-	20/1	EXTERIOR BOLLARDS	12	12
12	12	COUNTER REC	20/1	-	0.180	31	B	32	3.840	-	40/2	EV CHARGER	8	10
12	12	ISLAND REC	20/1	GF	0.360	33	A	34	3.840	-	-	-	8	-
10	8	EV CHARGER	40/2	-	3.840	35	B	36	3.840	-	40/2	EV CHARGER	8	10
-	8	-	-	-	3.840	37	A	38	3.840	-	-	-	8	-
10	8	EV CHARGER	40/2	-	3.840	39	B	40	0.360	-	20/1	FIRE PIT	12	12
-	8	-	-	-	3.840	41	A	42	0.180	-	20/1	PATIO GRILL	12	12
10	10	EXTERIOR LTG	20/1	-	0.200	43	B	44	2.500	-	30/2	UH-1	10	10
12	12	-	20/1	-	0.060	45	A	46	2.500	-	-	-	10	-
12	12	PATIO GRILL	20/1	-	0.180	47	B	48	9.780	-	90/2	AH-7	2	8
10	10	HP-6	25/2	-	2.700	49	A	50	9.780	-	-	-	2	-
-	10	-	-	-	2.700	51	B	52	2.880	-	30/2	HP-7	10	10
10	10	HP-7	30/2	-	2.880	53	A	54	2.880	-	-	-	10	-
-	10	-	-	-	2.880	55	B	56	6.830	-	60/2	AH-6	4	10
8	2	AH-7	90/2	-	9.780	57	A	58	6.830	-	-	-	4	-
-	2	-	-	-	9.780	59	B	60	0.540	-	20/1	RESTROOM REC	12	12
12	12	GYM CEILING FANS	20/1	-	0.900	61	A	62	0.100	-	20/1	SECURITY JBOX	12	12
12	12	DISPOSAL	20/1	GF	0.900	63	B	64	2.250	-	30/2	EWH-2	10	10
12	12	RCP-1	20/1	-	0.025	65	A	66	2.250	-	-	-	10	-
-	-	SPARE	20/1	-	0.000	67	B	68	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	69	A	70	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	71	B	72	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	73	A	74	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	75	B	76	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	77	A	78	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	79	B	80	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	81	A	82	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	83	B	84	0.000	-	20/1	SPARE	-	-

Demand Load Panel Summary: 135.5 KVA; 564.4 AMPS
Connected Load Panel Summary: Phase A: 72.6 KVA, 604.7 AMPS; Phase B: 70.5 KVA, 587.3 AMPS; Total: 143.0 KVA, 596.0 AMPS
Breaker Options (If Used): TC - Time Clock Control; LO - Lock-On Device; GF - GND Fault CKT Interrupter; E - Existing to Remain; SH - Shunt Trip Breaker

Panel ID: HP — Voltage: 240 / 120 — Panel Type: LIGHTING AND POWER PANEL
Location: BREEZEWAY — Phase: 1 — Enclosure: NEMA 1
Mounting: SURFACE — Wire: 3
Main Type: MLO — Main Size: 225 Amps

All circuit breakers shall be standard bolt-on type, unless noted otherwise.
** = Refer to one line diagram for wire sizes.

GND SIZE	WIRE SIZE	BRANCH CIRCUIT DESCRIPTION	CKT BKR SIZE	CKT BKR OPTION	CONN. LOAD (KVA)	CKT NO.	PHASE	CKT NO.	CONN. LOAD (KVA)	CKT BKR OPTION	CKT BKR SIZE	BRANCH CIRCUIT DESCRIPTION	WIRE SIZE	GND SIZE
12	12	BREEZEWAY LTG/REC	20/1	-	1.020	1	A	2	2.400	-	30/2	CUH-1	10	10
12	12	BREEZEWAY LTG/REC	20/1	-	1.020	3	B	4	2.400	-	-	-	10	-
12	12	EXTERIOR REC	20/1	-	0.540	5	A	6	0.435	-	20/2	EXTERIOR POLE LTG	10	10
12	12	EXTERIOR REC	20/1	-	0.540	7	B	8	0.435	-	-	-	10	-
-	-	SPARE	40/2	-	0.000	9	A	10	0.140	-	20/1	BOLLARD LTG	12	12
-	-	-	-	-	0.000	11	B	12	2.900	-	60/2	GARAGE PANEL	4	10
-	-	SPARE	40/2	-	0.000	13	A	14	2.900	-	-	-	4	-
-	-	-	-	-	0.000	15	B	16	2.900	-	60/2	GARAGE PANEL	4	10
12	12	SPRINKLER PANEL	20/1	LO	0.000	17	A	18	2.900	-	-	-	4	-
-	-	SPARE	20/1	-	0.000	19	B	20	0.000	-	60/2	SPARE	-	-
-	-	SPARE	20/1	-	0.000	21	A	22	0.000	-	-	-	-	-
-	-	SPARE	20/1	-	0.000	23	B	24	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	25	A	26	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	27	B	28	0.000	-	20/1	SPARE	-	-
-	-	SPARE	20/1	-	0.000	29	A	30	0.000	-	20/1	SPARE	-	-

Demand Load Panel Summary: 18.5 KVA; 77.0 AMPS
Connected Load Panel Summary: Phase A: 10.3 KVA, 86.1 AMPS; Phase B: 10.2 KVA, 85.0 AMPS; Total: 20.5 KVA, 85.5 AMPS
Breaker Options (If Used): TC - Time Clock Control; LO - Lock-On Device; GF - GND Fault CKT Interrupter; E - Existing to Remain; SH - Shunt Trip Breaker

AIR HANDLER REQUIREMENTS

AH-	VOLTS	PHASE	KW	BREAKER	WIRE SIZE
1,4	240	1	5.0	30/2	(2) #10 & (1) #10 GRD
2	240	1	7.5	40/2	(2) #8 & (1) #10 GRD
3,5	240	1	10.0	60/2	(2) #4 & (1) #10 GRD

ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING REQUIREMENTS FOR EACH AIR HANDLER FOR EACH APARTMENT. REFER TO OVERALL POWER PLANS FOR AIR HANDLER FOR EACH APARTMENT. THE BREAKER SHALL BE PROVIDED FOR THE TENANT PANEL.

HEAT PUMP REQUIREMENTS

HP-	VOLTS	PHASE	MCA	BREAKER	WIRE SIZE	CONDUIT SIZE
1,2,3	240	1	16.0	20/2	(2) #10 & (1) #10 GRD	3/4"
4,5	240	1	19.0	20/2	(2) #10 & (1) #10 GRD	3/4"

ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING REQUIREMENTS FOR EACH HEAT PUMP UNIT. REFER TO OVERALL POWER PLANS FOR HEAT PUMP UNIT FOR EACH APARTMENT. THE BREAKER SHALL BE PROVIDED FOR THE TENANT PANEL.

E-302-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4848
FAX: (614) 766 2254
DESIGNED BY: N. RUSSELL | DRAWN BY: N. RUSSELL | CHECKED BY: - | JOB NUM.: 24217

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

COLUMBUS METROPOLITAN HOUSING AUTHORITY
CHANGING LIVES. CHANGING COLUMBUS.

300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
Moody Nolan
CERT. NO.: FIRM 00197475

DRAWING TITLE:
ELECTRICAL PANEL SCHEDULES & APARTMENT LOAD TABULATIONS

05/01/2025
23446
E-302
CD PROGRESS SET

PROGRESS DRAWING NOT FOR CONSTRUCTION

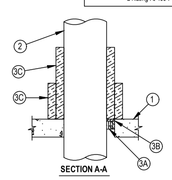
© 2024 MOODY NOLAN INC.

System No. F-A-1105

FA 1105

CLASSIFIED c UL us
Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Rating - 2 Hr	F Rating - 2 Hr
T Rating - 2 Hr	FT Rating - 2 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft	FH Rating - 2 Hr
L Rating At 400 F - 4 CFM/sq ft	FTH Rating - 2 Hr
W Rating - Class 1 (See Item 3B)	L Rating At Ambient - Less Than 1 CFM/sq ft
	L Rating At 400 F - 4 CFM/sq ft



1. Floor Assembly -- Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete. As an alternate, any min 2 hr fire rated D700 or D900 series Floor-Ceiling Design in the UL Fire Resistance Directory having a min 2-1/2 in. (64 mm) thickness of lightweight or normal weight (100-150 pcf or 1600-2400 kg/m3) concrete topping over the steel deck may be used. Max diam of opening is 12-3/4 in (324 mm).
2. Through-Penetrant -- One metallic pipe installed concentrically or eccentrically within opening. Annular space between penetrant and periphery of opening shall be min of 0 in. (point contact) to max 2 in. (51 mm). Penetrant to be rigidly supported on both sides of floor assembly. The following types and sizes of penetrants may be used:
   - A. Steel Pipe -- Nom 10 in. (254 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe
   - B. Iron Pipe -- Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
   - C. Conduit -- Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or nom 6 in. (152 mm) diam (or smaller) rigid steel conduit.

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 17, 2014

Page: 1 of 2

System No. F-A-1105

FA 1105

3. Firestop System -- The firestop system shall consist of the following:
   - A. Packing Material -- Min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. When CP 604, CFS-S SIL GG or CFS-S SIL SL sealant is used (see item 3B), min thickness of packing material is 4 in. (102 mm) and min thickness of floor is 4-1/2 in. (114 mm). Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
   - B. Fill, Void or Cavity Materials* - Sealant -- Min 1/2 in. (13 mm) thickness of sealant applied within the annulus, flush with top surface of floor. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-ONE Sealant or CP 604 Self-Leveling Firestop Sealant, CFS-S SIL GG or CFS-S SIL SL Sealant. W Rating applies only when CP 604, CFS-S SIL or CFS-S SIL SL Sealant is used.
   - C. Duct Wrap Material* -- Encapsulated duct wrap tightly around penetrant to extend 24 in. (610 mm) above the floor for penetrants of nom 4 in. (102 mm) diam or smaller, and 36 in. (914 mm) above floor for penetrants greater than a nom 4 in. (102 mm) diam. An additional layer of encapsulated duct wrap tightly wrapped around the first layer of duct wrap to extend 12 in. (305 mm) (914 mm) above floor. All longitudinal seams of both layers of duct wrap and joints between layers of duct wrap are sealed with foil tape. One of the following types and thicknesses of duct wrap may be used:
     - C.1. Nom 1-1/2 in. (38 mm) or 2 in. (51 mm) thick encapsulated duct wrap. UNIFRAX I L L C -- Fyrewrap Duct Insulation or FireWrap Duct 1.5 Insulation.
     - C.2. Nom 1-1/2 in. (38 mm) thick encapsulated duct wrap. THERMAL CERAMICS INC -- FireMaster FastWrap XL Duct Insulation.

*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 17, 2014

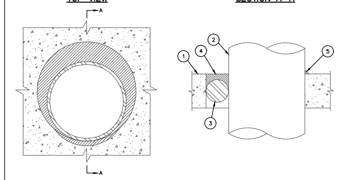
Page: 2 of 2

FIXTURE SCHEDULE

FIXTURE NUMBER	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
S1	7.5" LED SURFACE MOUNTED DISK, 1000LM, 3000K	MAXIM (RP LIGHTING)	57613WTWT	14W LED	--
S2	2' LED LINEAR CEILING WRAP, 1600LM, 4000K	NUVO (ILP)	65-1081	20W LED	--
S3	12" SURFACE MOUNTED DOME	NUVO (VOLUME LIGHTING)	60-3271	(1) 9.8W LED BULB (S11408)	CONTRACTOR TO PROVIDE LAMPS.
S4	10" SURFACE MOUNTED DOME	NUVO (ILP)	SF76-674	(2) 9.8W LED BULB (S11408)	CONTRACTOR TO PROVIDE LAMPS.
S5	4' SURFACE MOUNTED LINEAR LED, 4000LM, 3500K	CURRENT (ILP)	MPS-4-35-LW-C-W-ED-U	26.9W LED	--
S6	54" CLOSED AND GASKETED FIRBERGLASS INDUSTRIAL UL WET LOCATION LISTED	LITHONIA (ILP)	VAP-4000LM,PCL-WD-MVOLT-GZ10-35K-80CRI	33W LED	--
S7	15.5" SURFACE MOUNTED LED CYLINDER	LIGHTOLOGY (--)	DUNF15LAJUDBKGD	26W LED	--
P1	LED PENDANT	QUORUM (--)	822-165	(1) 9.8W LED BULB (S11408)	--
P2	14" LED PENDANT	HINKLEY (--)	ARGO 3487SK	(1) 6.5W LED BULB (INCLUDED)	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
P3	31" SPHERICAL CHANDELIER	HINKLEY (--)	FR40564IRR	(6) 4W LED CANDLE BULB	CONTRACTOR TO PROVIDE LAMPS. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
R1	2x2 LED FLAT PANEL W/ SWITCHABLE LUMEN OUTPUT	COLUMBIA (--)	CBT22-L35	38W LED	SET TO MEDIUM LUMEN OUTPUT.
R2	2X4 LED FLAT PANEL W/ SWITCHABLE LUMEN OUTPUT	COLUMBIA (--)	CBT24-L35	48W LED	SET TO MEDIUM LUMEN OUTPUT.
W1	EXTERIOR WALL SCONCE	KICHLER (VOLUME LIGHTING)	9735BK	(1) 9.8W LED BULB (S11408)	CONTRACTOR TO PROVIDE LAMPS. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
W2	EXTERIOR WALL SCONCE	MAXIM LIGHTING (VOLUME LIGHTING)	1026 BK	(1) 9.8W LED BULB (S11408)	CONTRACTOR TO PROVIDE LAMPS. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
W3	EXTERIOR WALL SCONCE	KICHLER (--)	49183BK	(1) 9.8W LED BULB (S11408)	CONTRACTOR TO PROVIDE LAMPS. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
W4	EXTERIOR GOOSENECK WALL SCONCE	VISUAL COMFORT (MILLENNIUM)	8837401EN3-12	(1) 9W LED BULB (INCLUDED)	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
W5	SWING ARM WALL SCONCE	HINKLEY (--)	ARGO 3480SK	(1) 9W LED BULB (INCLUDED)	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
V1	LED BACKLIT MIRROR	WELLFOR (--)	DTG-3224M3ZK1	36W LED	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
CLF1	WHITE CEILING FAN W/ LED BULBS INCLUDED	KICHLER (RP LIGHTING)	330017MWH	(3) 9.8W LED BULB (S11408), 52W HIGH, [illegible]	CONTRACTOR TO PROVIDE LAMPS.
CLF2	CEILING FAN W/ NO LIGHT	WAC (--)	F-081L	45W	--
EX1	ONE SIDED LED EDGE LIT EXIT SIGN W/ REMOTE CAPACITY	LITHONIA (COMPASS)	LHQM-LED-R-HO RO	<5W LED	--
EM1	EMERGENCY LED WALL PACK	LITHONIA (COMPASS)	ELM2L	<5W LED	--
EM2	EMERGENCY LED REMOTE HEADS	LITHONIA (COMPASS)	ELA-T-SD-QWP	<5W LED	POWER FROM EX1.
PL1	LED POLE MOUNTED FIXTURE, 21,000LM, 4000K, TYPE 3 DIST. W/ INTEGRAL PHOTOCELL	BEACON (--)	VP-2-320L-145-4K7-3-UNV-A POLE: RSA-B-S-25-50-B-1-B1-XX	145W LED	MOUNT AT 25' A.F.F.
PL2	LED POLE MOUNTED FIXTURE, 21,000LM, 4000K, TYPE 4 DIST. W/ INTEGRAL PHOTOCELL	BEACON (--)	VP-2-320L-145-4K7-4-UNV-A POLE: RSA-B-S-25-50-B-1-B1-XX	145W LED	MOUNT AT 25' A.F.F.
BL1	LED BOLLARD FIXTURE, 1,000LM, 4000K, TYPE 1 DIST. W/ INTEGRAL PHOTOCELL	KIM LIGHTING (--)	PA7R-CT-NU-1-12L-010-4K7	14W LED	--
BL2	LED BOLLARD FIXTURE, 1,000LM, 4000K, TYPE 5 DIST. W/ INTEGRAL PHOTOCELL	KIM LIGHTING (--)	PA7R-CT-NU-5-12L-010-4K7	14W LED	--

METAL PIPE THROUGH CONCRETE FLOOR/WALL OR BLOCK WALL

UL/CUL SYSTEM NO. CAJ1154
F RATING = 3-HR
T RATING = 1/4-HR
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.

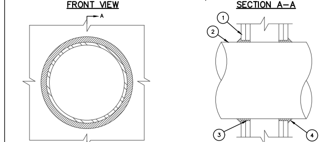


1. CONCRETE FLOOR OR WALL ASSEMBLY (3-HR. FIRE-RATING):
   - A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
   - B. ANY UL/ULC CLASSIFIED CONCRETE BLOCK WALL.
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   - A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   - B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   - C. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   - D. MAXIMUM 4" NOMINAL DIAMETER EMT.
3. BACKER ROD, HILTI CF 128 FILLER FOAM, OR MINERAL WOOL TO BE USED AS BACKER.
4. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT APPLIED AT POINT OF CONTACT.

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 14".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 3-1/4".
3. MINIMUM 1/2" DEPTH HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT IS REQUIRED ON BOTH SIDES OF A WALL ASSEMBLY.

METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

UL/CUL SYSTEM NO. WL1085
F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR
L RATING AT AMBIENT = LESS THAN 1CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT..



1. GYPSUM WALL ASSEMBLY (UL/ULC CLASSIFIED U300 OR U400 SERIES) (1-HR OR 2-HR FIRE-RATING) (2-HR SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
   - A. MAXIMUM 12" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   - B. MAXIMUM 12" NOMINAL DIAMETER CAST IRON PIPE.
   - C. MAXIMUM 6" NOMINAL DIAMETER COPPER PIPE.
   - D. MAXIMUM 6" NOMINAL DIAMETER EMT.
   - E. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT POSSIBLE.
4. MINIMUM 1/2" BEAD HILTI FS-ONE INTUMESCENT FIRESTOP SEALANT TO BE INSTALLED AROUND PIPE, LAPPING 1/4" BEYOND PERIPHERY OF OPENING

NOTES:
1. MAXIMUM DIAMETER OF OPENING = 13-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HGT. TO CENTER UNLESS OTHERWISE NOTED
R1,a	LIGHT FIXTURE: TYPE "R1" SEE LIGHTING FIXTURE SCHEDULE; WIRED TO SWITCH "a"	
	LED STRIP LIGHTING FIXTURE	
	POLE MOUNTED LIGHTING FIXTURE	
	CEILING OR WALL MOUNTED LIGHTING FIXTURE TYPE SEE LIGHTING FIXTURE SCHEDULE	SEE DRAWINGS
	EXIT SIGN FIXTURE (WITH DIRECTIONAL ARROWS AS SHOWN) (TYPE AND MOUNTING AS NOTED: SEE LIGHTING FIXTURE SCHEDULE)	94"
	EXIT SIGN FIXTURE WITH REMOTE HEADS	94"
	EMERGENCY LIGHTING BATTERY PACK WITH INTEGRAL HEADS (TYPE AND MOUNTING AS NOTED; SEE LIGHTING FIXTURE SCHEDULE)	90"
$a	SINGLE POLE SWITCH; a = SWITCH "a"	42"
$2;3;4;K;P	SPECIAL SWITCH: 2-WAY; 3-WAY; 4-WAY; KEY OPERATED; SWITCH WITH PILOT LIGHT	42"
	DUPLEX RECEPTACLE; 3 WIRE GROUND TYPE	18"
GF	DUPLEX RECEPTACLE W/ GROUND FAULT INTERRUPTER	18"
WP	DUPLEX RECEPTACLE W/ WEATHERPROOF COVER	18"
U	DUPLEX RECEPTACLE W/ USB-C PORT	18"
	SINGLE RECEPTACLE	18"
	DOUBLE DUPLEX RECEPTACLE	18"
	SPECIAL PURPOSE RECEPTACLE AS NOTED	18"
J, JF	JUNCTION BOX; WALL / CEILING MOUNTED: FLOOR MOUNTED	SEE DRAWINGS
	DATA OUTLET	18"
	ELECTRICAL PANEL - SURFACE MOUNT, FLUSH MOUNT	6'-0" TO TOP
	PLYWOOD TELEPHONE BACKBOARD	AS REQUIRED
	SAFETY DISCONNECT SWITCH	2'-0" TO 6'-0"
	1-PHASE MOTOR	
F	CEILING/WALL MOUNTED FIRE ALARM HORN/STROBE	80"
F	CEILING/WALL MOUNTED FIRE ALARM STROBE	80"
F	FIRE ALARM PULL STATION	42"
FO	FIRE ALARM LOW FREQUENCY (520 HZ) TONE HORN	80"
DO	FIRE ALARM BELL	80"
F	CEILING MOUNTED FIRE ALARM DEVICE	
TS	TAMPER SWITCH	
FS	MASTER FLOW SWITCH	
SJ	SECURITY JUNCTION BOX	
EV	EV CHARGING STATOIN	
EVF	PULLBOX FOR FUTURE EV CHARGING STATION	
T	UTILITY TRANSFORMER	
CR	CARD READER	42"
	PUSHBUTTON	42"
	TOGGLE TYPE DISCONNECT SWITCH	
PC	PHOTOCELL SENSOR	
F	BATHROOM EXHAUST FAN	
DB	DOORBELL	42"
DO	SENSORY DOORBELL STROBE	80"

ELECTRICAL ABBREVIATIONS

AWG	AMERICAN WIRE GAUGE	G.C.	GENERAL CONTRACTOR
A	ABOVE COUNTER	GRD	GROUND
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING
CLG	CEILING	MECH	MECHANICAL
C	CONDUIT	PNL	PANEL
E.C.	ELECTRICAL CONTRACTOR	REC	RECEPTACLE
E	EXISTING TO REMAIN	TYP	TYPICAL
FIX	FIXTURE	WP	WEATHER PROOF

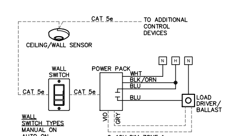
LIGHTING CONTROL LEGEND

- OS — LOW VOLTAGE CEILING MOUNTED SELF-ADJUSTING 2000 SQ. FT. DUAL TECH. MOTION SENSOR WITH 360° FIELD OF VIEW. NX CONTROLS MODEL #NXSMDT-OMNI.
- PP — JUNCTION BOX MOUNTED POWER PACK ROOM CONTROLLER - NX CONTROLS MODEL #NXRCFX2-1RD-UNV. 16A LOAD RATING, 15VDC, 40mA OUTPUT. INSTALL ABOVE ACCESSIBLE CEILING OR AT DECK ABOVE.
- $L — LOW VOLTAGE 2 BUTTON ON/OFF WALL SWITCH. MANUAL CONTROL FOR CEILING MOUNTED OCCUPANCY SENSOR(S). NX CONTROLS MODEL #NXSW2-OO. 1-ON/OFF. USED FOR AUTO ON, AUTO OFF OF ONE ZONE.
- $M — LOW VOLTAGE 2 BUTTON ON/OFF WALL SWITCH. MANUAL CONTROL FOR CEILING MOUNTED OCCUPANCY SENSOR(S). NX CONTROLS MODEL #NXSW2-OO. 1-ON/OFF. USED FOR MANUAL ON, AUTO OFF OF ONE ZONE.
- $O — WALL MOUNTED OCCUPANCY SENSOR, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW - NX CONTROLS MODEL #LHRMTS-1-N-WH. USED FOR AUTO ON AND AUTO OFF OF ONE ZONE.
- $F — WALL MOUNTED OCCUPANCY SENSOR W/ FAN CONTROL, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW - NX CONTROLS MODEL #LHRDCMTD-2-N-WH. USED FOR AUTO ON AND AUTO OFF.
- $V — WALL MOUNTED OCCUPANCY SENSOR, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW - NX CONTROLS MODEL #LHRMTS-1-N-WH. USED FOR MANUAL ON AND AUTO OFF OF ONE ZONE.
- $D — WALL MOUNTED VACANCY SENSOR, SELF-ADJUSTING 1,000 SQFT. DUAL TECHNOLOGY (ULTRA/PIR) SENSOR WITH 180° FIELD OF VIEW - MODEL #LHRDMMTS2-N-WH. USED FOR MANUAL RAISE/LOWER, MANUAL ON AND AUTO OFF OF ONE ZONE.
- $R — LOW VOLTAGE 4 BUTTON ON/OFF, RAISE/LOWER WALL SWITCH. MANUAL CONTROL FOR CEILING MOUNTED OCCUPANCY SENSOR(S). NX CONTROLS MODEL #NXSW2-ORLO-WH. USED FOR MANUAL ON, AUTO OFF, MANUAL RAISE/LOWER OF ONE ZONE.

NOTES:
1. REFER TO WIRING DIAGRAMS ON THIS SHEET.
2. SET SENSORS FOR MAXIMUM SENSITIVITY AND TIME DELAYS AS FOLLOWS: RESTROOMS 30 MINUTES, ALL OTHER AREAS 15 MINUTES. SET DAYLIGHT SENSORS IN AUTOMATIC SET POINT PROGRAMMING MODE. COORDINATE FINAL SETTING WITH THE OWNER/TENANT.
3. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. APPROVED EQUALS SHALL BE BY ACUITY, LEVITON, WATTSTOPPER DLM, LUTRON ENERGI TRI-PAK, LSI AIRLINK, & CRESTRON ZUM.
5. AUTOMATIC CONTROLS SHALL INCLUDE FACTORY START-UP AND CONTRACTOR COMMISSIONING. CONTROLS SHALL BE FIELD TESTED TO ENSURE DEVICES ARE CALIBRATED, ADJUSTED, AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. FIELD TESTING SHALL OCCUR WHEN FURNITURE AND OWNER EQUIPMENT IS INSTALLED AND WHEN HVAC EQUIPMENT IS OPERATIONAL.

LIGHTING CONTROL NOTES

1. ENCLOSED OFFICES AND MULTIPURPOSE ROOMS SHALL BE MANUAL ON, AUTO OFF, AND MANUAL DIM.
2. LOBBIES, CORRIDORS, & RESTROOMS SHALL BE AUTO ON TO 100%, AUTO OFF, AND SHALL INCLUDE ONE READILY ACCESSIBLE MANUAL CONTROL. CORRIDORS SHALL BE DIMMABLE WHERE SHOWN ON PLANS.
3. APARTMENT CORRIDORS SHALL BE ON AT ALL TIMES FOR SECURITY.
4. AUTOMATIC SHUTOFF IS NOT REQUIRED FOR LIGHTING REQUIRED FOR 23 HOUR OPERATION, AND FOR SPACES WHERE AUTOMATIC SHUTOFF WOULD ENDANGER THE SAFETY OR SECURITY OF THE ROOM OR BUILDING OCCUPANTS (INCLUDING ELECTRICAL ROOMS, MECHANICAL ROOMS).
5. ALL OTHER SPACES SHALL BE MANUAL ON, AUTO OFF, UNLESS NOTED/SHOWN OTHERWISE. REFER TO LIGHTING CONTROL LEGEND FOR DEVICE TYPES AND ASSOCIATED CONTROL SEQUENCES.
6. STRAIGHT LINES BETWEEN DEVICES/LUMINARIES INDICATE SWITCHED CIRCUIT. ARCED LINES INDICATE UNSWITCHED CIRCUIT. LOWER CASE LETTERS DENOTE LIGHTING ZONES.
7. EXTERIOR LIGHTING SHALL BE OFF DURING THE DAY, 100% OUTPUT DURING PEAK NIGHT HOURS FOR TENANT SECURITY.
8. POWER PACKS & WIRING ARE SHOWN ON THE DRAWINGS FOR SPECIFIC CIRCUITING & SWITCHING, EXCEPT WHEN CONTROL INTENT IS CLEAR (EX.-BOUND BY A ROOM). ALL SWITCH CONTROLS & POWER PACKS SHALL BE FURNISHED & INSTALLED AS REQUIRED. IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE & FUNCTIONAL BRANCH CIRCUIT WIRING & CONTROL SYSTEM IS FURNISHED & INSTALLED.



WALL SWITCH TYPES
MANUAL ON
AUTO ON
RAISE/LOWER
SCENE

0-10V DIM ZONE 1
REQUIRED FOR RAISE/LOWER SWITCH & SCENE SWITCH
OMIT FOR MANUAL & AUTO ON

SEQUENCE OF OPERATION
MANUAL ON - MANUAL ON, AUTO OFF
AUTO ON - AUTO ON, AUTO OFF
RAISE/LOWER - MANUAL ON, AUTO OFF, MANUAL RAISE/LOWER
SCENE - MANUAL ON, AUTO OFF, MANUAL OVERRIDE TO 100%

CEILING MOTION SENSOR

CAT 5e NON-BOOTED PLENUM CABLES, 2 CAT 5e PORTS PER DEVICE
APPROX. 16 DEVICES MAX PER POWER PACK
ADDITIONAL SWITCHES & SENSORS DAISY CHAINED

E-400-24217.DWG

PRATER Engineering Associates, Inc.
6130 Wilcox Road, Dublin, Ohio 43016
(614) 766 4896
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	-	24217

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

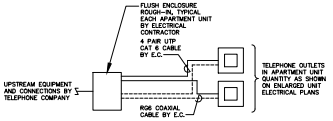
05/01/2025

23446

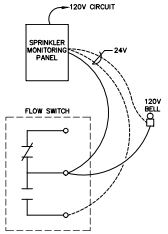
E-400

CD PROGRESS SET

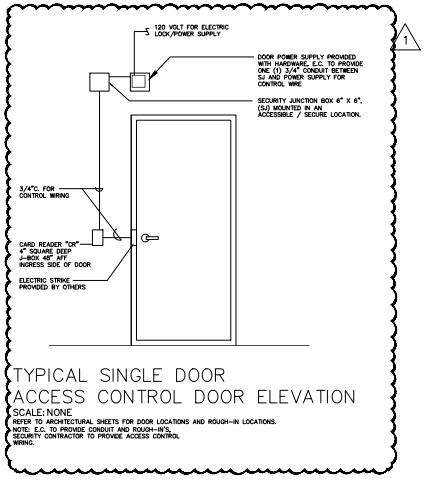
© 2024 MOODY NOLAN, INC.



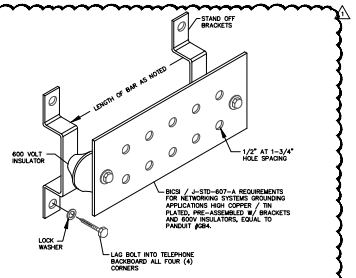
APARTMENT TELECOM WIRING DIAGRAM
SCALE: NONE



FIRE ALARM SPRINKLER
MONITORING PANEL WIRING DIAGRAM
SCALE: NONE



TYPICAL SINGLE DOOR
ACCESS CONTROL DOOR ELEVATION
SCALE: NONE
REFER TO ARCHITECTURAL SHEETS FOR DOOR LOCATIONS AND ROUGH-IN LOCATIONS.
NOTE: E.C. TO PROVIDE CONDUIT AND ROUGH-IN'S, SECURITY CONTRACTOR TO PROVIDE ACCESS CONTROL WIRING.



GROUNDING BAR DETAIL
SCALE: N.T.S.

E-401-24217.DWG

PRATER
Engineering Associates, Inc.
6130 Wilcox Road
Dublin, Ohio 43016
(614) 766 4898
FAX: (614) 766 2354

DESIGNED BY	DRAWN BY	CHECKED BY	JOB NUM.
N. RUSSELL	N. RUSSELL	--	24217

#	DATE	CHANGE DESCRIPTION
1	06/10/2025	ADDENDUM# 01

COLUMBUS METROPOLITAN HOUSING AUTHORITY
COMMUNITY. COMMITMENT. COLLABORATION.

THE FALLS ON REFUGEE ROAD
3355 REFUGEE ROAD, COLUMBUS, OH 43232
FOR
CMHA

Moody Nolan
300 SPRUCE STREET
SUITE 300
COLUMBUS, OHIO 43215
PHONE: 614-461-4664
CERT. NO: FIRM 00197475

DRAWING TITLE:
ELECTRICAL
DETAILS

PROGRESS DRAWING NOT FOR CONSTRUCTION

05/01/2025

23446

E-401

CD PROGRESS SET