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522 Maple Street

Fayetteville, AR 72701

CONSTRUCTION DOCUMENTS

12.18.2025

REGISTERED ARCHITECT — WER NORTHWEST ARKANSAS, PLLC — NO LL-200 — STATE OF ARKANSAS

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Project Name
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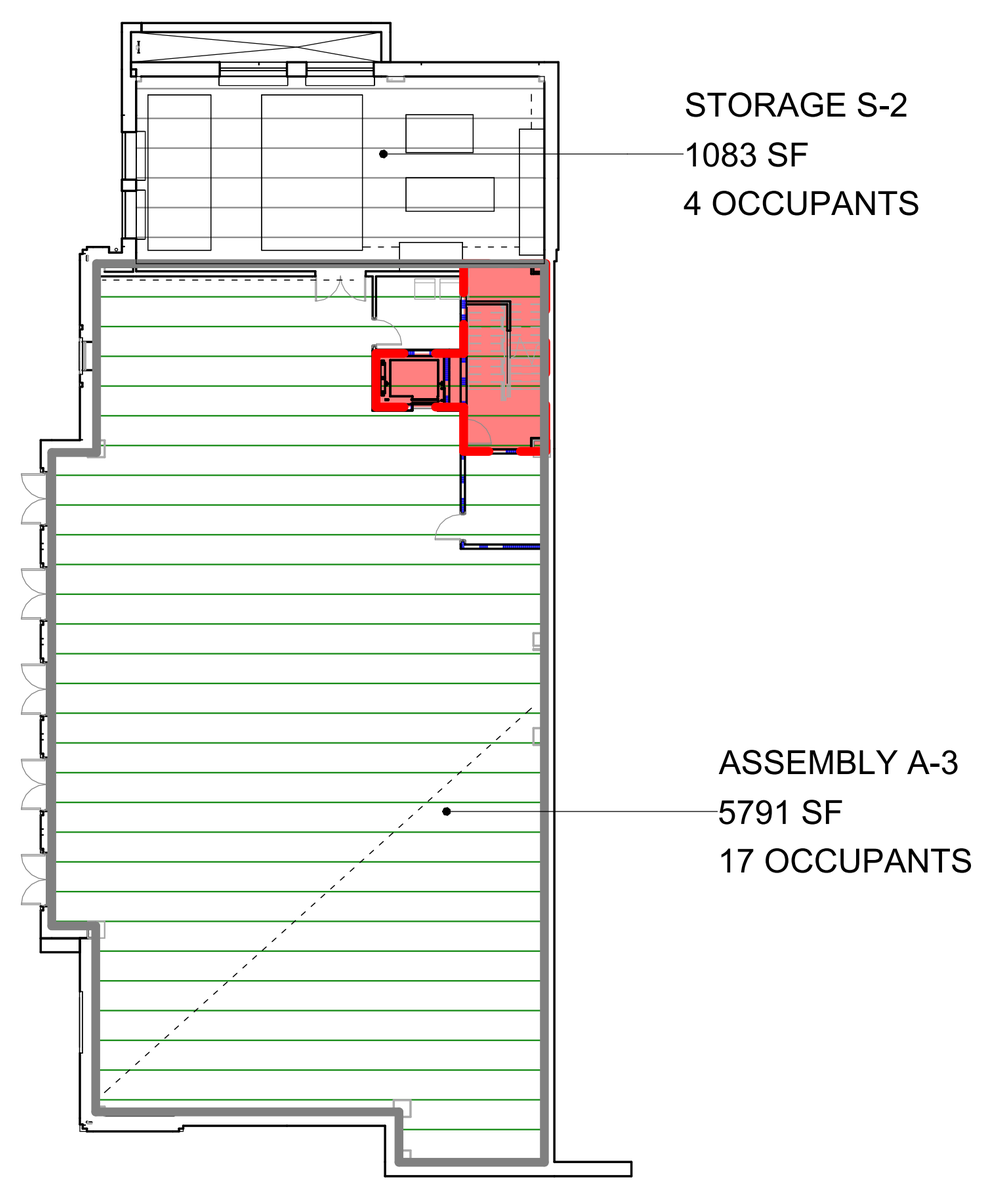
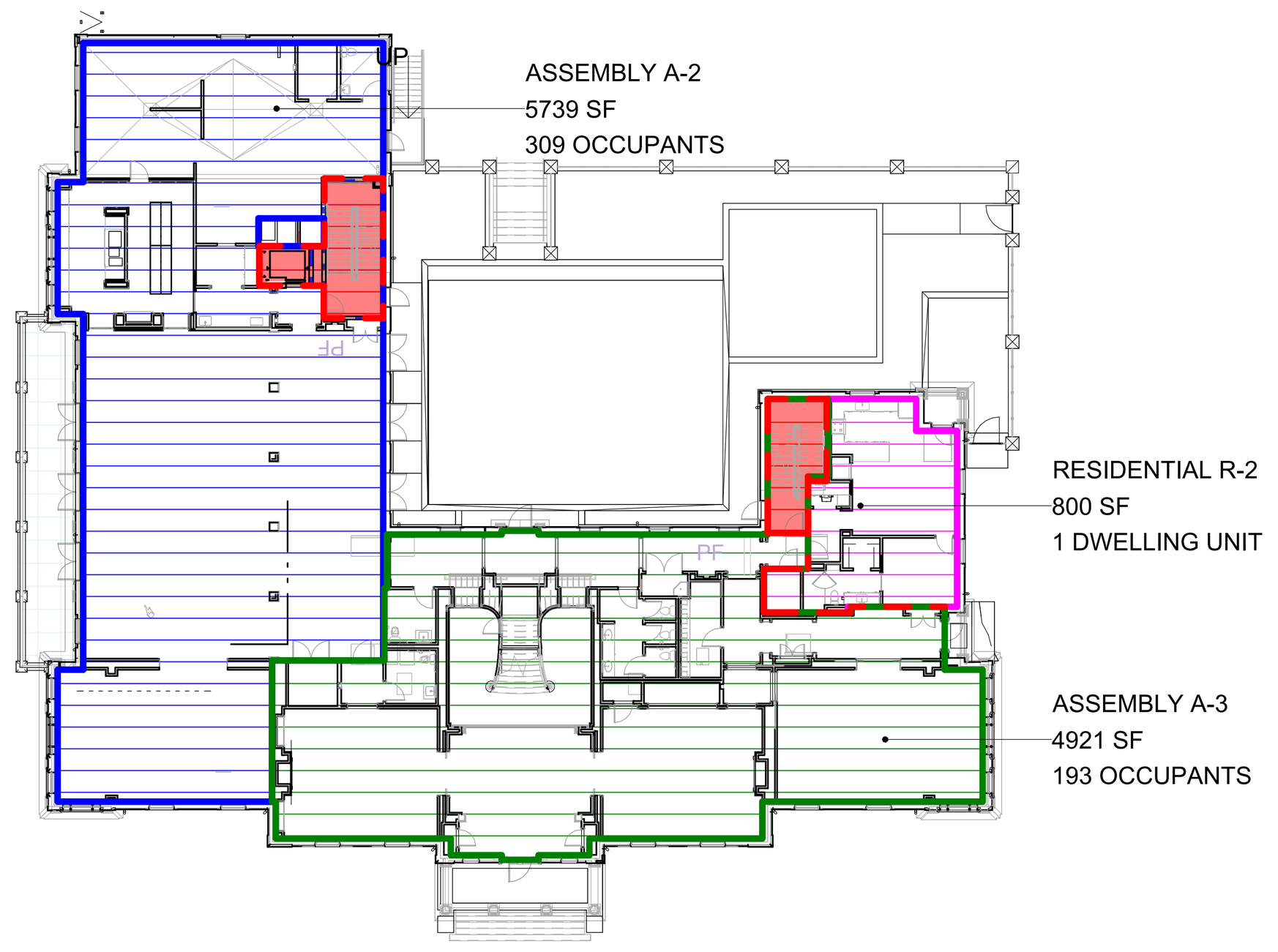
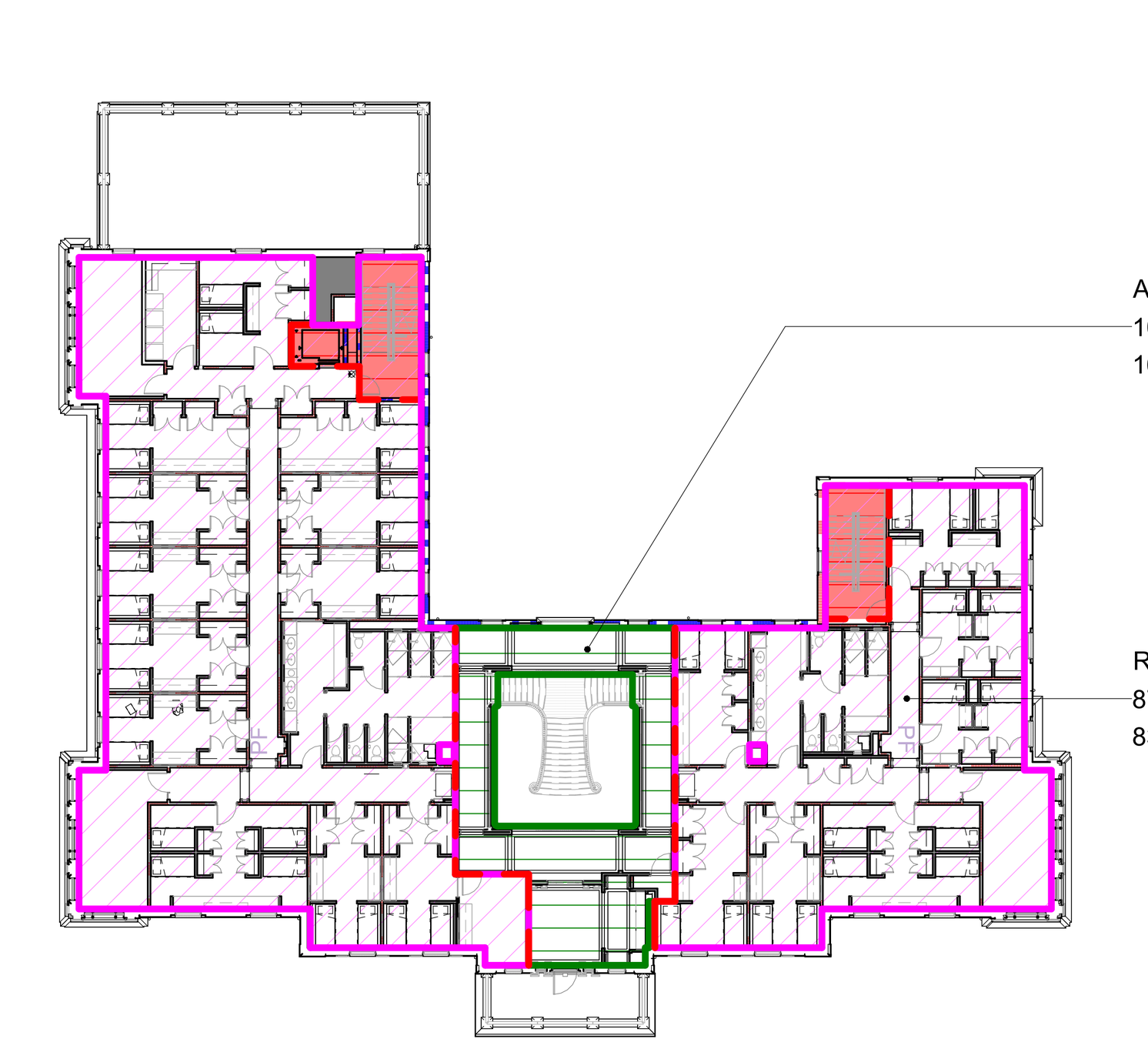


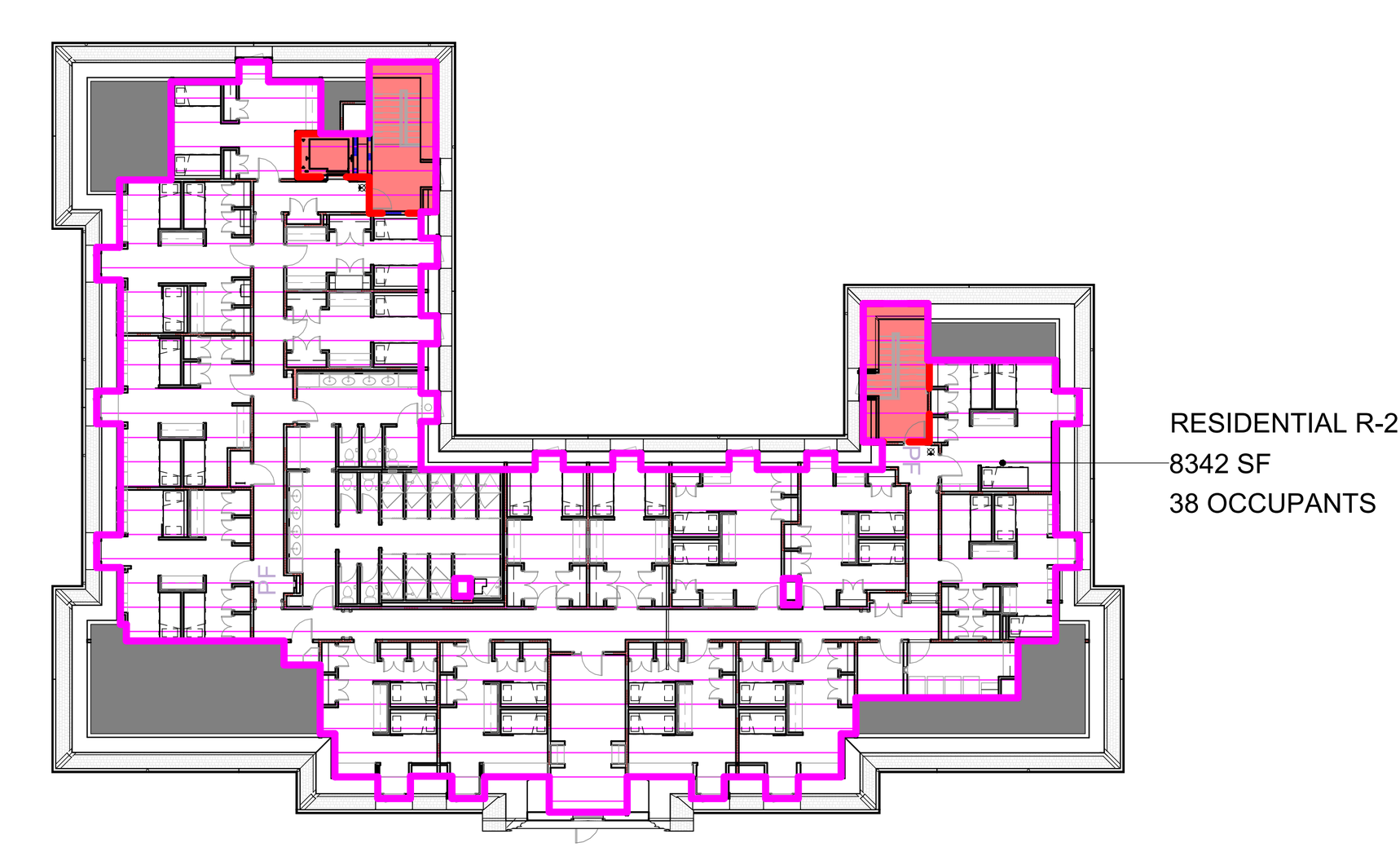
1 OCCUPANCY PLAN - LOWER LEVEL
1" = 30'-0"



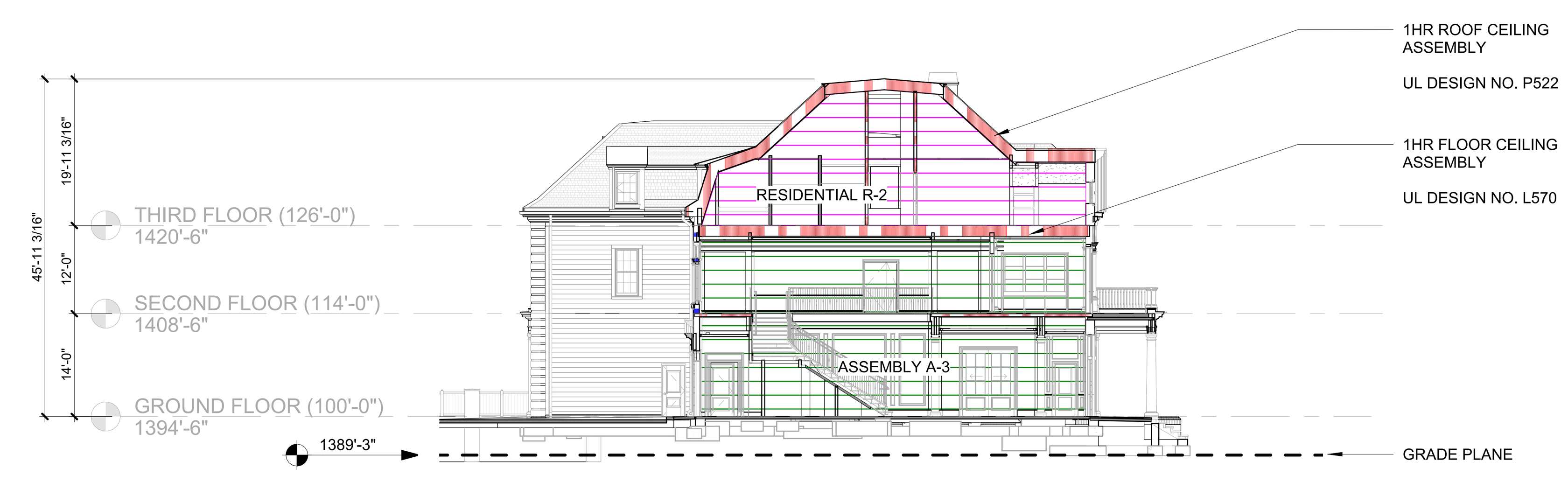
2 OCCUPANCY PLAN - GROUND FLOOR
1" = 30'-0"



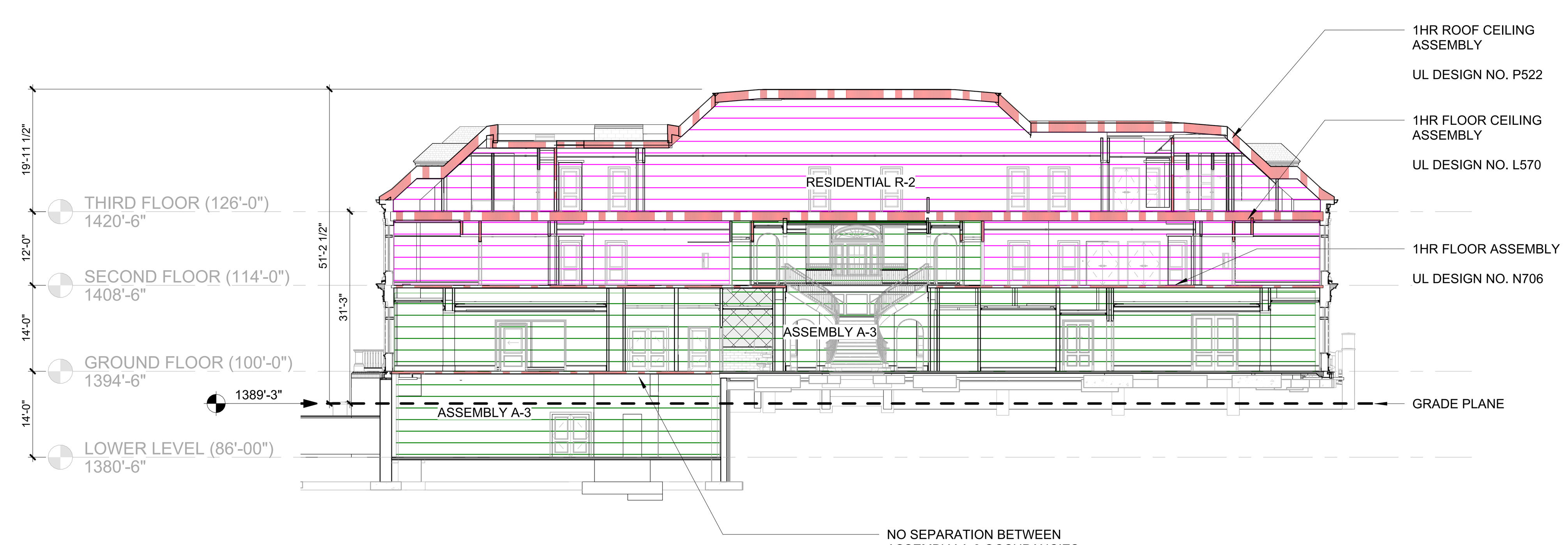
3 OCCUPANCY PLAN - SECOND FLOOR
1" = 30'-0"



4 OCCUPANCY PLAN - THIRD FLOOR
1" = 30'-0"



5 SECTION THROUGH FOYER - OCCUPANCY TYPE
1/16" = 1'-0"



6 SECTION THROUGH ALL LEVELS - OCCUPANCY TYPE
1/16" = 1'-0"

BUILDING CODE ANALYSIS

1. Applicable Codes
- INTERNATIONAL BUILDING CODE 2021 ED
- ARKANSAS FIRE PREVENTION CODE 2021 ED
- ARKANSAS GAS CODE
- ARKANSAS STATE PLUMBING AND GAS CODE
- ARKANSAS MECHANICAL AND GAS CODE
- ARKANSAS ELECTRICAL CODE
- NFPA 101 THE LIFE SAFETY CODE 2012 ED

2. Project Description
- An approximately 34,800 gross square foot (inside f.o. wall) freestanding 4 story, steel and wood framed structure with a partial basement designed for a sorority on a college campus including residential occupancy.

3. ENERGY CODE REQUIREMENTS — **IECC 2009**
- Climate Zone — **4A**
- **OPAQUE ENVELOPE REQUIREMENTS** — **TABLE 502.2 (1)**
  - Roof, Insulation entirely above deck — **R-20ci**
  - Metal Framed Wall — **R-13 + R-7.5ci**
  - Wood Framed Wall
    - All other — **R-13**
    - Group R — **R-13 + R-3.8ci**
  - Below Grade Wall — **NR**
  - Slab on Grade - Unheated — **NR**
  - Opaque Doors (<50% Glass Area) — **U-0.70**
- **FENESTRATION** — **TABLE 502.3**
  - Framing other than Metal — **U-0.40**
  - Metal Framing
    - Curtainwall/ Storefront — **U-0.50**
    - Entrance Door — **U-0.85**
    - All Other — **U-0.55**
  - SHGC - All Frame Types
    - SHGC PF <0.25 — **40**
    - SHGC 0.25 < PF < 0.5 — **NR**
    - SHGC > 0.5 — **NR**

3. Occupancy Classification:
- **Separated Mixed Use**
  - Main Occupancy
    - Residential: Group R-2 — Section 310
    - Second and Third Floors
  - Secondary Occupancy / Separated
    - Assembly: Group A-2, A-3]
    - Ground Floor and Lower Level — Section 303
  - Mechanical Room on Lower Levelis accessor to A3 Occupancy (<10% of overall floor area)
  - R-2 on Ground Level is accessory to A-2/ A3 Occupancy (<10% of overall floor area)
- **Separation Requirements:** — **Table 508.4**
  - 1HR occupancy separation required between A and R (Sprinklered) Vertically and horizontally
  - No separation required between A and S-2 (Sprinklered)
  - Group R-2 dwelling units and sleeping units shall be separated from other dwelling or sleeping units and from accessory occupancies contiguous to them in accordance with Section 420. — Section 508.2.4
    - See Chapter 4 Special Detailed Occupancy Requirements

4. Fire Protection — **CHAPTER 9**
- Building is fully sprinklered — Section 903
- Building will have fire alarm system — Section 907

5. Allowable Heights and Areas: — **Table 601 & Section 602.5**
- Construction Type — **Type V-B**
- Allowable Height (Above Grade Plane) — Table 504.3
  - R (Type VB/ S): **60ft** Most Stringent
- Allowable # of Stories (Above Grade Plane) — (Table 504.4)
  - R-2 (S13R/ Type VB): 3 stories
  - A-2, A-3 (S/ Type VB): 2 stories
- Allowable Area Per Floor — (Table 506.2)
  - A-2, A-3 (SM/ Type VB): 18,000 sf
  - R-2 (SM/ Type V): 21,000 sf
- Area Modifications
  - Frontage Increase — Section 506.3
    - % of Bldg Perimeter: 100% / Open Space: 30ft
    - Frontage Increase Factor: .75
  - Allowable Area = [(Tabular Area per 506.2 + (NS * Frontage Increase Factor)]
    - R-2 NS = 7,000
    - A-2, A-3 NS = 6,000
    - R-2 (S13R): **[(7000 + (7,000 * .75)] = 12,250 SF**
    - A-2/A-3 (SM): **[(18,000 + (6,000 * .75)] = 22,500 SF**
- Maximum Allowable Building Area
  - See above per occupancy — Section 506.4.1

6. Actual Building Characteristics
- Square Footage*
  - Lower Level (A-3) — 5,299 SF
  - Ground Floor (A-2/ A-3/ R-2) — 11,451 SF (A-2:5730SF/A-3:4921SF/R-2:800SF)
  - Second Floor (R-2/ A-3) — 9,865 SF (A-3: 1049SF/ R-2:8816SF)
  - <u>Third Floor (R-2)</u> — <u>8,186 SF</u>
  - Total = — 34,801 SF (measured to inside face of ext. wall)
- Sum of Actual Bldg Area of each occupancy / Allowable Bldg Area SHALL NOT EXCEED 1
  - A-2: 5730 SF / 22,500 = .255
  - A-3: 4921 SF / 22,500 = .219
  - R-2: 800 SF / 12,250 = .066
  - Total = .54 (Does Not Exceed 1, therefore OK)
- Actual Building Height — Section 503.1
  - R-2: 50ft (50 < 60)
  - A-2/A-3: 32ft (32 < 60)
  - Total Bldg Ht: 56'-6" (56.5 < 60)

7. Fire Resistance Ratings for Building Elements — **Table 601**
- Type VB
  - Structural frame — [0 Hour Rated/Not Rated]
  - Bearing walls
    - Exterior — [0 Hour Rated/Not Rated]
    - Interior — [0 Hour Rated/Not Rated]
  - Exterior nonbearing walls partitions — Table 705.5 = X > 30ft, therefore 0 HR
  - Interior nonbearing walls in partitions — [0 Hour Rated/Not Rated]
  - Floor Construction — [0 Hour Rated/Not Rated]
  - Roof Construction — [0 Hour Rated/Not Rated]

8. General Means of Egress Requirements — **CHAPTER 10**
Occupancy Count — Table 1004.1.2

LOWER LEVEL
- Accessory Storage Areas, Mechanical Equipment Room
  - (4917 s.f. @ 300 s.f./person gross)
  - **16.39 Occupants**
- Assembly (Without Fixed Seating) – Concentrated
  - (3937 s.f. @ 7 s.f. /person net)
  - **562 Occupants (Future Use)**
- Accessory Storage Areas, Mechanical Equipment Room
  - (3937 s.f. @ 300 s.f. /person gross)
  - **13 Occupants (Current Use)**
- **<u>Total Calculated Lower Level Occupant Load</u>**
  - **570 Occupants (Future Use to be used for Life Safety Requirements)**
  - 21 Occupants (Current Use to be used for Plumbing Fixture Count)

GROUND FLOOR
- Assembly (Without Fixed Seating) – Unconcentrated
  - **6985** s.f. @ 15 s.f./person net
  - **465.67 Occupants**
- Kitchens, Commercial
  - **1042** s.f. @ 200 s.f./person gross)
  - **5.21 Occupants**
- Residential
  - **799** s.f. @ 200 s.f./person gross)
  - **4 Occupants**
- Classroom
  - **564** s.f. @ 20 s.f./person net)
  - **28.20 Occupants**
- Accessory Storage Areas, Mechanical Equipment Room
  - **303** s.f. @ 300 s.f./person gross
  - **1.01 Occupants**
- **<u>Total Calculated Ground Floor Occupant Load</u>**
  - **504 Occupants**

SECOND FLOOR
- Residential
  - **7651** s.f. @ 200 s.f./person gross
  - **38.255 Occupants**
- Exercise Room
  - **228** s.f. @ 50 s.f./person net
  - **4.56 Occupants**
- Classroom
  - **238** s.f. @ 20 s.f./person net)
  - **11.40 Occupants**
- Assembly (Without Fixed Seating) – Unconcentrated
  - **667** s.f. @ 15 s.f./person net
  - **44.47 Occupants**
- **<u>Total Calculated Second Floor Occupant Load</u>**
  - **99 Occupants**

THIRD FLOOR
- Residential
  - **7462** s.f. @ 200 s.f./person gross
  - **37.31 Occupants**
- Classroom
  - **179** s.f. @ 200 s.f./person gross
  - **8.95 Occupants**
- **<u>Total Calculated Third Floor Occupant Load</u>**
  - **47 Occupants**
- **TOTAL BUILDING OCCUPANCY (Life Safety)**
  - **1220 Occupants**

- **Minimum Number of Exits / Floor & Exit Configuration** — **Section 1006**
  - LOWER LEVEL
  - **570 Occupants - 3 Exits Required**
  - GROUND FLOOR
  - **504 Occupants - 3 Exits Required**
  - SECOND FLOOR
  - **99 Occupants - 2 Exits Required**
  - THIRD FLOOR
  - **47 Occupants - 2 Exits Required**
- **Maximum Distance of Travel** — **Table 1017.2**
  - A/ Sprinklered - 250'-0"
  - R/ Sprinklered – 250'-0"
- **Egress Width per Occupant**
  - Stairways — **0.2"/ Occupant** — Sect. 1005.3.1
  - Other egress components — **0.15 / Occupant** — Sect. 1005.3.2
- **Corridor Fire-Resistance Rating** — **Table 1020.2**
  - R/ Occ Load > 30/ S – 0.5HR
  - A/ Occ Load > 30/ S – 0HR
- **Maximum Dead end Corridor** — **Section 1020.5**
  - R-2 - 50 Feet
  - A-2/ A-3 – 20 Feet
- **Minimum Corridor Width** — **Section 1020.3**
  - Typical - 44 inches
  - Within dwelling unit – 36 inches
- **Exit Access Stairways** — **Section 1019**
  - Exit access stairways are not required to be enclosed if that stairway or ramps is atmospherically communicated between only two adjacent stories.
  - Exit Access stairways not required to be enclosed if sprinklered and where the area of the vertical opening between the stories does not exceed twice the horizontal projected area of the stairway and the opening is protected by a draft curtain
  - An unenclosed stair that is not an exit access stair is not required to be enclosed

9. Fire and Smoke Protection Features — **CHAPTER 7**
Concealed insulation
- Flame Spread – not more than 25 — Section 720.2
- Smoke Developed – not more than 450 — Section 720.2

10. Special Detailed Occupancy Requirements — **CHAPTER 4**
- **·Separation Walls** — Section 420.2
  - Walls separating dwelling units in the same building, walls separating sleeping units in the same building and walls separating dwelling or sleeping units from other occupancies contiguous to them in the same building shall be constructed as fire partitions in accordance with 708.
  - **½ HR Separation required between sleeping units when building is equipped with automatic sprinkler system** — Section 708.3
- **Horizontal Separation** — Section 420.3
  - Floor assemblies separating dwelling units in the same buildings, floor assemblies separating sleeping units in the same building and floor assemblies separating dwelling or sleeping units from other occupancies contiguous to them in the same building shall be constructed as horizontal assemblies in accordance with Section 711
  - **½ HR Separation required between sleeping units when building is equipped with automatic sprinkler system** — Section 711.2.4.3
  - **To minimize the potential for fire spread from the exposed side of the fire partition to the unexposed side, such partitions must be continuous from the floor assembly to the underside of a fire-resistance-rated floor/ceiling or roof/ceiling assembly.**
- **Automatic Sprinkler System** — Section 420.4
  - Group R occupancies shall be equipped throughout with an automatic sprinkler system in accordance with 903.2.8
- **Fire Alarm Systems and Smoke Alarms** — Section 420.5
  - Fire alarm systems and smoke alarms shall be provided in Group R-2 occupancies in accordance with Sections 907.2.6, 907.2.8, 907.2.9. Single or multiple station smoke alarms shall be provided in Group R-2 in accordance with Section 907.2.11

11. Incidental Uses — **Table 509**
- Laundry Rooms over 100 square feet - 1 hour or provide automatic sprinkler
  1. **Automatic Sprinkler Required**
- Rooms with boilers where the largest piece of equipment is of 15 psi and 10 horsepower – 1 hour or provide automatic sprinkler
  1. **Automatic Sprinkler Required**
- Furnace room where any piece of equipment is over 400,000 btu per hour input – 1 hour or provide automatic sprinkler system
  1. **Automatic Sprinkler Required**
- Paint Shops, not classified as Group H, located in occupancies other than Group F – 2 hours: or 1 hour and provide automatic sprinkler system
  1. **Automatic Sprinkler Required**
- Electrical installations and transformers
  1. **Automatic Sprinkler Required**

12. Interior Environment — **CHAPTER 12**
- Minimum Ceiling Heights — Section 1208.2
  - Any portion of the room measuring less than 5ft from the finished floor to the ceiling shall not be included the room area

13. Accessibility — **CHAPTER 11**
- Special Requirements for Dwelling Units and Sleeping Units — Section 1108
  - Accessibly units, Type A and Type B units shall be provided in Group R-2 occupancies — Section 1108.6.2
  - Bedrooms within congregate living facilities, dormitories, sororities, fraternities and boarding houses shall be counted as sleeping units for the purpose of determining the number of units. — Section 1108.6.2.3
  - Accessible Sleeping Units — Table 1108.6.1.
  - Total Sleeping Units Provided — **19 (L2) + 16 (L3) = 35**
    - **2 accessible units required**

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REGISTERED ARCHITECT
WER NORTHWEST ARKANSAS, PLLC
NO LL-200
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title LIFE SAFETY PLANS
Sheet No.

ALS.01

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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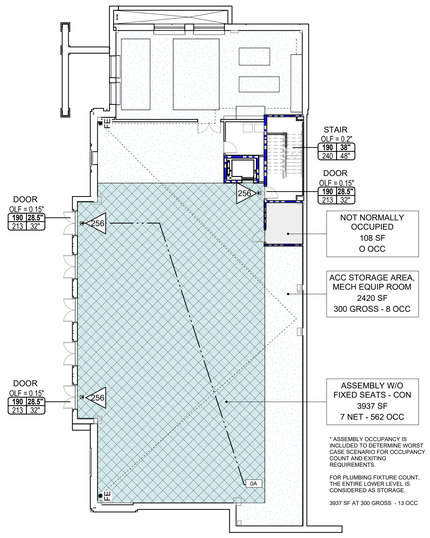
EGRESS DISTANCES FLOOR 0	
PATH ID	EXIT PATH DISTANCE
0A	93' - 2"

FIRE EXTINGUISHER MAX TRAVEL DISTANCE FLOOR 0	
PATH ID	TRAVEL DISTANCE
0-A	73' - 2"
0-B	72' - 3"
0-C	68' - 5"



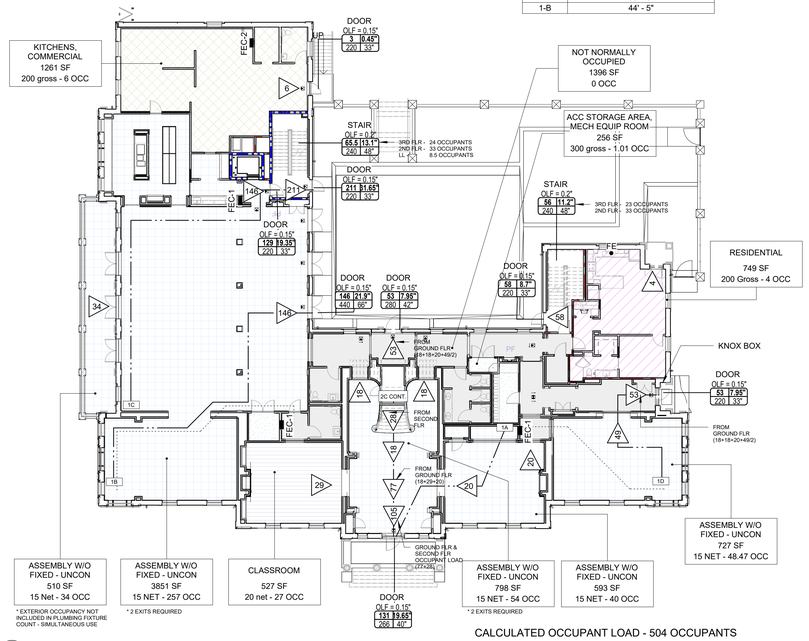
CALCULATED OCCUPANT LOAD (LIFE SAFETY) - 570 OCCUPANTS
CALCULATED OCCUPANT LOAD (PLUMBING) - 21 OCCUPANTS

1 LIFE SAFETY PLAN - LOWER LEVEL
1/16" = 1'-0"

EGRESS DISTANCES FLOOR 1	
PATH ID	EXIT PATH DISTANCE
1A	47' - 1"
1B	91' - 6"
1C	102' - 7"
1D	44' - 1"

EGRESS DISTANCES FLOOR 2, CONT.	
PATH ID	EXIT PATH DISTANCE
2C	127' - 9"

FIRE EXTINGUISHER MAX TRAVEL DISTANCE FLOOR 1	
PATH ID	TRAVEL DISTANCE
1-A	69' - 6"
1-B	44' - 5"



CALCULATED OCCUPANT LOAD - 504 OCCUPANTS

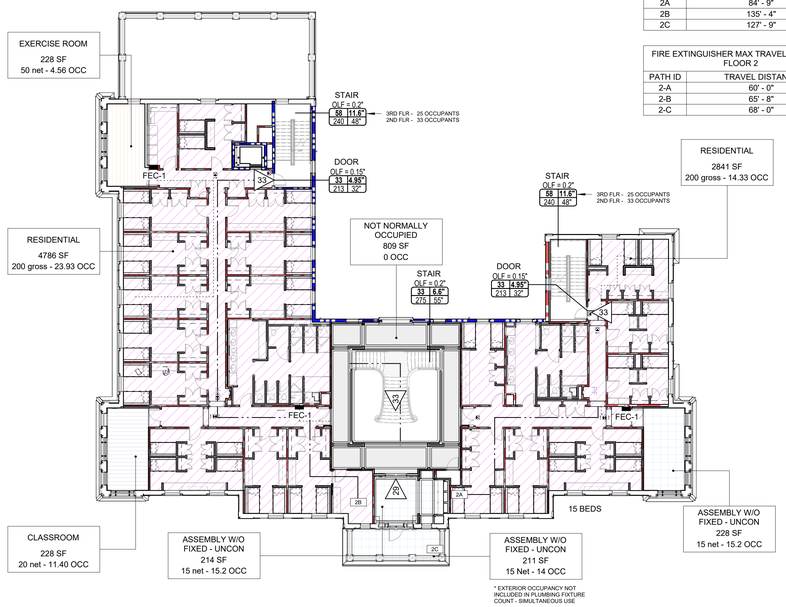
2 LIFE SAFETY PLAN - GROUND FLOOR
1/16" = 1'-0"

LIFE SAFETY LEGEND

- 1 HOUR WALL
- 2 HOUR WALL
- FIRE EXTINGUISHER PATH
- EGRESS PATH
- FEC-1 / FEC-2: FIRE EXTINGUISHER CABINET - FULLY RECESSED / FIRE EXTINGUISHER CABINET - SEMI RECESSED
- FE: BRACKET MOUNTED FIRE EXTINGUISHER
- FE (CLASS K): BRACKET MOUNTED CLASS K FIRE EXTINGUISHER
- EXIT SIGN - HATCH INDICATES DIRECTION
- OCCUPANT COUNT TRIANGLE
- EGRESS CALCULATIONS: STAIR, OLF = 0.2", 4.00 | 20", 170 | 34" — OCCUPANT LOAD FACTOR; CLEAR WIDTH REQUIRED; CLEAR WIDTH PROVIDED; EGRESS CAPACITY; OCCUPANT LOAD SERVED

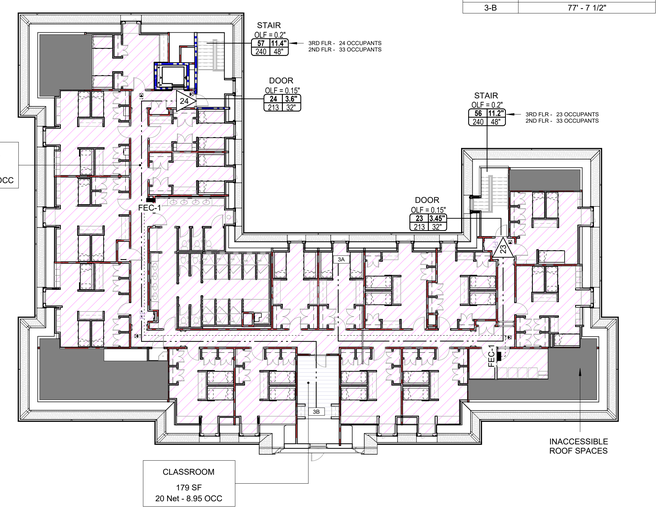
EGRESS DISTANCES FLOOR 3	
PATH ID	EXIT PATH DISTANCE
3A	90' - 11"
3B	140' - 1"

FIRE EXTINGUISHER MAX TRAVEL DISTANCE FLOOR 3	
PATH ID	TRAVEL DISTANCE
3-A	53' - 0 1/2"
3-B	77' - 7 1/2"



CALCULATED OCCUPANT LOAD - 99 OCCUPANTS
41 BEDS

3 LIFE SAFETY PLAN - SECOND FLOOR
1/16" = 1'-0"



CALCULATED OCCUPANT LOAD - 47 OCCUPANTS
52 BEDS

4 LIFE SAFETY PLAN - THIRD FLOOR
1/16" = 1'-0"

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REGISTERED ARCHITECT — WER NORTHWEST ARKANSAS, PLLC — NO LL-208 — STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

LIFE SAFETY PLANS
Sheet No.
ALS.02

Project Name
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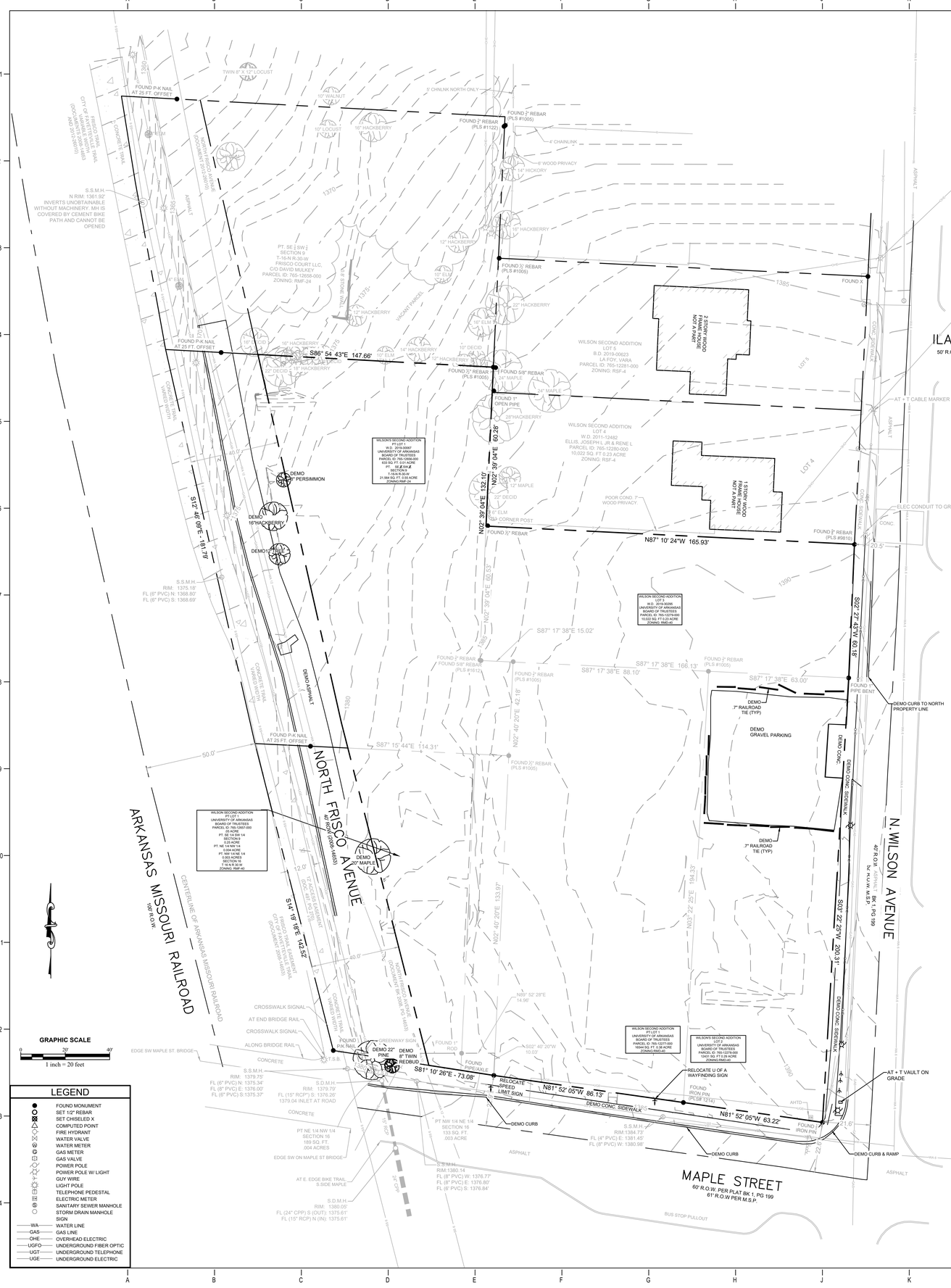
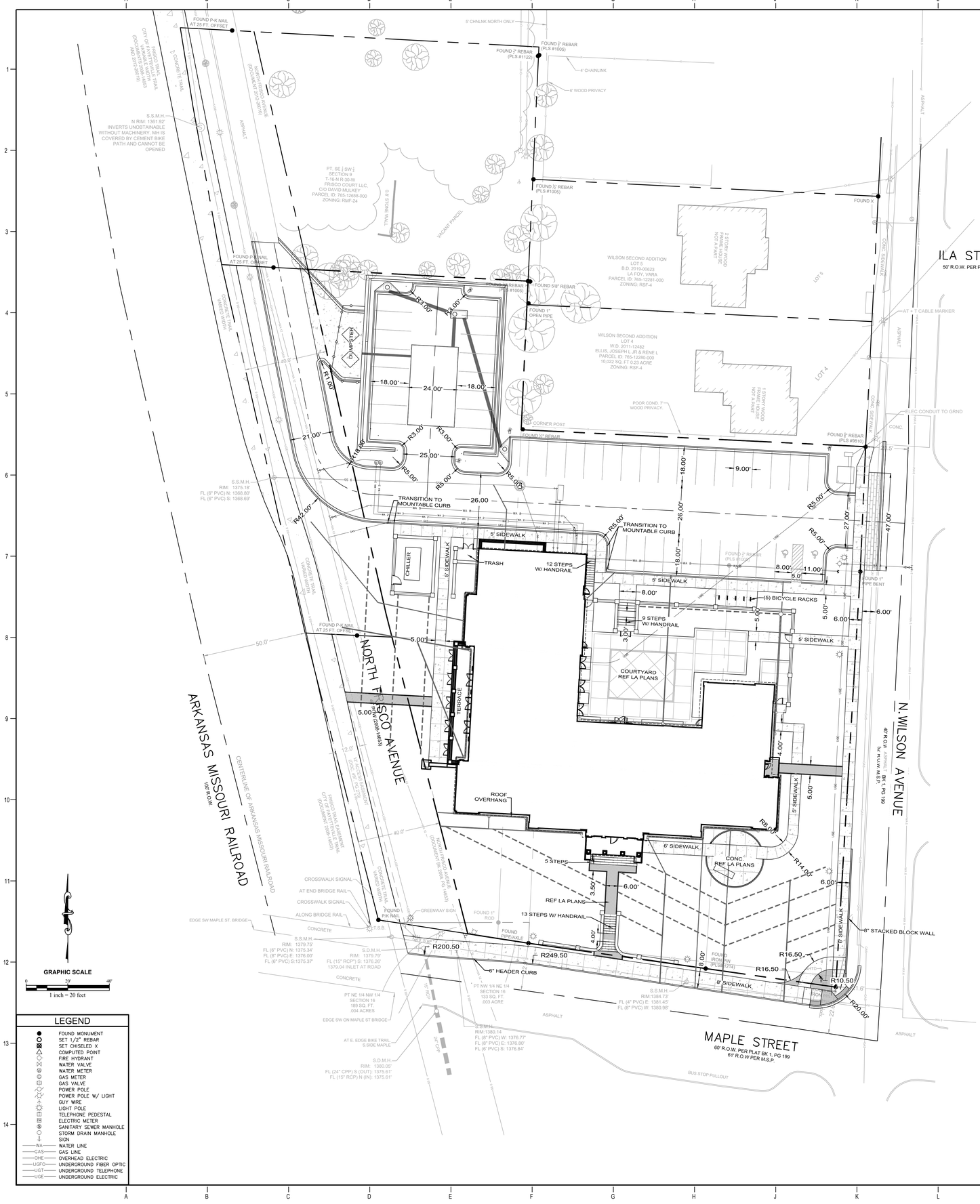

FOUND P-K NAIL AT 25 FT. OFFSET
FOUND ½" REBAR (PLS #1122)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND X
FOUND P-K NAIL AT 25 FT. OFFSET
FOUND ½" REBAR (PLS #1005)
FOUND 5/8" REBAR
FOUND 1" OPEN PIPE
FOUND ½" REBAR
FOUND ½" REBAR (PLS #9810)
FOUND P-K NAIL AT 25 FT. OFFSET
FOUND P-K NAIL AT 25 FT. OFFSET
FOUND ½" REBAR FOUND 5/8" REBAR (PLS #1612)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND 1" PIPE BENT
FOUND ½" REBAR (PLS #1005)
FOUND P-K NAIL AT 25 FT. OFFSET
FOUND ½" REBAR
FOUND 1" ROD
FOUND FIRE HOLE
FOUND IRON PIN (PLS# 1214)
FOUND 1" IRON PIN
FOUND ½" REBAR
FOUND ½" REBAR
FOUND ½" REBAR



GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR APPLICATION, PAYMENT, & ACQUISITION OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT.
3. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE ARKANSAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL TO THE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-8998 AT LEAST FOUR WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
4. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES, MARKINGS & RECORD DOCUMENTS. LOCATIONS OF UNDERGROUND UTILITIES MAY VARY SIGNIFICANTLY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL MARK LOCATE & MARK UTILITY LINES BEFORE CONSTRUCTION & UNCOVER AS NEEDED.
5. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY & COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
6. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER & THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITION.
8. ALL SEWER LINES & APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF FAYETTEVILLE WATER AND SEWER STANDARD PIPELINE MATERIALS & CONSTRUCTION SPECIFICATIONS & DETAILS, LATEST EDITION.
9. ALL WATER LINES & APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARD PIPELINE MATERIALS & CONSTRUCTION SPECIFICATIONS & DETAILS, LATEST EDITION.
10. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECT & ADJUSTED TO MATCH PROPOSED GRADE AS NEEDED
11. CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS & PAVING TO CITY OF FAYETTEVILLE &/OR ADA STANDARDS. VERIFY.
12. TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
13. ELECTRICAL & LIGHTING INFORMATION SHOWN FOR COORDINATION PURPOSES ONLY. SEE MEP SHEETS FOR DETAILS & SPECIFICATIONS.
14. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONSTRUCTION CONFLICTS THAT BECOME APPARENT & REVIEW INSTRUCTIONS &/OR PLAN REVISIONS PRIOR TO MAKING ANY CHANGES.

LAYOUT NOTES:

1. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL LAYOUT & VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DIRECTION & RESOLUTION OF DISCREPANCIES PRIOR TO PROCEEDING.
3. VERIFY LOCATIONS OF ALL SITE IMPROVEMENTS INSTALLED UNDER OTHER SECTIONS. IF ANY PART OF THIS PLAN CANNOT BE FOLLOWED DUE TO SITE CONDITIONS, CONTACT THE ENGINEER FOR INSTRUCTION PRIOR TO COMMENCING WORK.
4. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALE.
5. WHERE DIMENSIONS ARE CALLED AS "EQUAL", ALL REFERENCED ITEMS SHALL BE SPACED EQUALLY, MEASURED TO THEIR CENTER LINES.
6. ALL DIMENSIONS ARE PERPENDICULAR TO FACE OF BUILDING, WALL OR OTHER FIXED SITE IMPROVEMENT & DIMENSIONS AT CURB ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
7. INSTALL ALL INTERSECTING ELEMENTS AT 90 DEGREES TO EACH OTHER UNLESS OTHERWISE NOTED.

ACCESSIBILITY SLOPE REQUIREMENTS :

1. ALL SIDEWALKS SHALL BE CONSTRUCTED HAVING NO GREATER THAN A 2.0% CROSS SLOPE
2. ALL ACCESSIBLE ROUTE SIDEWALKS SHALL BE CONSTRUCTED HAVING NO GREATER THAN A 5.0% LONGITUDINAL SLOPE
3. ALL ACCESSIBLE RAMPS SHALL BE CONSTRUCTED HAVING NO GREATER THAN A 2.0% CROSS SLOPE & 1:12 LONGITUDINAL SLOPE.
4. ALL ACCESSIBLE RAMP LANDINGS SHALL HAVE SLOPES NO GREATER THAN 2.0% IN ANY DIRECTION.
5. ALL ACCESSIBLE PARKING SPACES & LOADING ZONES SHALL HAVE SLOPES NO GREATER THAN 2.0% IN ANY DIRECTION.
6. ALL ACCESSIBLE ROUTE SIDEWALKS, RAMPS, LANDINGS, & PARKING SPACES THAT ARE NOT COMPLIANT WITH ADA GUIDELINES MUST BE REPLACED AT THE CONTRACTORS EXPENSE.

EXPANSION JOINTS:

PROVIDE EXPANSION JOINTS IN ALL CASES WHERE CONCRETE FLATWORK MEETS OTHER STRUCTURES SUCH AS WALLS, CURBS, STEPS & BUILDINGS OR WHERE CONCRETE ABUTS EXISTING CONCRETE PAVING, UTILITY VAULTS, JUNCTION BOXES, ETC. EXPANSION JOINTS REQUIRED AT THESE STRUCTURES MAY NOT BE SHOWN ON THESE DRAWINGS BUT ARE A CONSTRUCTION REQUIREMENT. SEE DETAILS FOR LOCATIONS THAT REQUIRE INSTALLATION OF DOWELS.

FIRE LANE NOTES

PROVIDE ALLOWANCE FOR PAINTING OF FIRE LANES & COORDINATE LOCATIONS WITH OWNER & LOCAL FIRE DEPARTMENT REQUIREMENTS.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18323
CLASSE A. HENRIQUES
18 December 2025

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title
SITE PLAN
Sheet No.
C2.01

Project Name
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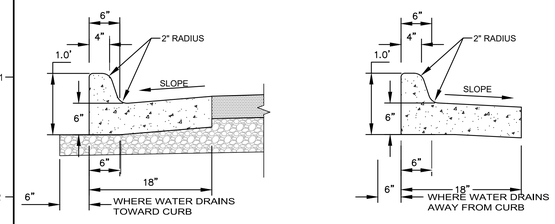
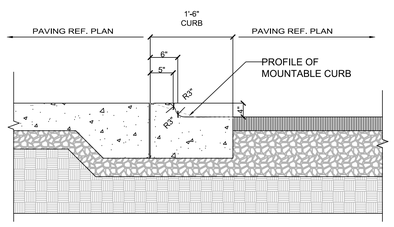
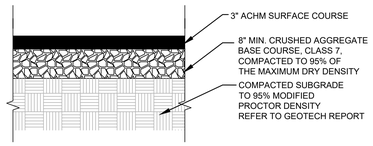


1 18" CONCRETE CURB AND GUTTER - TYPICAL
NTS

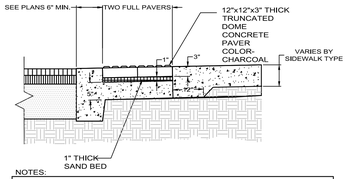


2 3" MOUNTABLE CURB - TYPICAL
N.T.S.



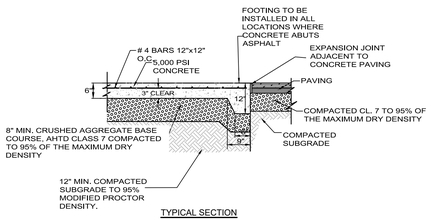
PAVING WORK TO CONFORM WITH ALL REFERENCE STANDARDS DESCRIBED IN GEOTECHNICAL REPORT, WRITTEN SPECIFICATIONS, AND CURRENT AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

3 ASPHALT PAVING - TYPICAL
NTS



NOTES:
1. PAVERS TO BE SURROUNDED WITH 6" CONCRETE BAND FOR EDGE RESTRAINT.
2. JOINT SAND SHALL BE POLYMERIC.
3. PAVER SHALL BE PAVESTONE OR APPROVED EQUAL

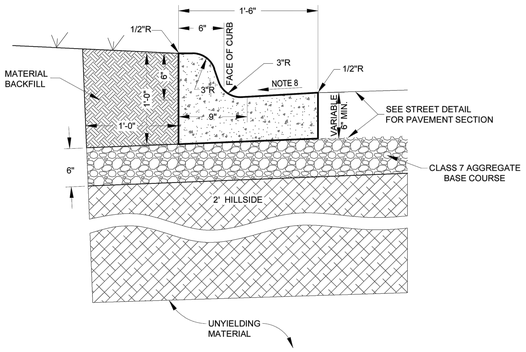
4 TRUNCATED PAVERS WITH DOMES
N.T.S.



TYPICAL SECTION

PAVING WORK TO CONFORM WITH ALL REFERENCE STANDARDS DESCRIBED IN GEOTECHNICAL REPORT AND WRITTEN SPECIFICATIONS

5 CONCRETE PAD FOR DUMPSTERS
N.T.S.



CURB & GUTTER NOTES:

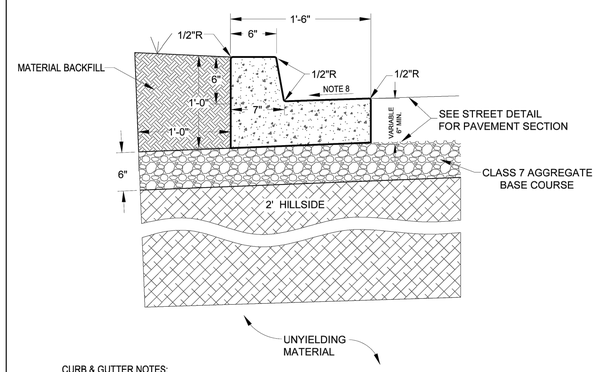
1. CONTRACTION JOINTS SHALL BE 1/8" TO 3/8" X 1 1/2" AT 15 FT. INTERVALS. ALL CONTRACTION JOINTS AND COLD JOINTS SHALL BE FILLED WITH JOINT SEALANT TO FINISHED GRADE.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
3. EXPANSION MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES AND ENDS OF CURB RETURNS. THE EXANSION MATERIAL SHALL BE 1/2" ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER THAN GRADE.
4. EXPANSION JOINTS SHALL BE FILLED WITH JOINT SEALANT SHAPED TO THE CROSS SECTION OF THE CURB AND CONSTRUCTED AT RIGHT ANGLES WITH THE CURB LINE.
5. FINISH SHALL BE MEDIUM BROOM FINISH.
6. CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
7. CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SL" OR AND APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
8. GUTTER SHALL MATCH THE CROSS SLOPE OF THE ROAD WITHIN ± 0.5%. GUTTER DRAINING THE OPPOSITE DIRECTION AS THE ROAD WILL NOT BE ACCEPTED.

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *STREET DETAILS*	DATE: Oct. 17, 2021
		DESCRIPTION: **TYPE 'A" CURB & GUTTER**	SHEET: **ST2**

NOTE:

TYPE 'D' CURB & GUTTER IS REQUIRED WHEN THE FOLLOWING CONDITIONS APPLY AS DEFINED BY THE MASTER STREET PLAN.

A. DOWNTOWN/URBAN CENTER STREETS.
B. NEIGHBORHOOD, REGIONAL AND REGIONAL HIGH-ACTIVITY LINK STREETS WITH 6 FEET OR LESS OF GREEN SPACE SEPARATION BETWEEN BACK OF CURB AND PEDESTRIAN/BICYCLE FACILITY.
C. STREETS IN HISTORIC DISTRICTS WITH EXISTING TYPE 'D' CURB TYPES.
D. STREETS WITH PEDESTRIAN/BICYCLE FACILITIES AT THE BACK OF CURB.



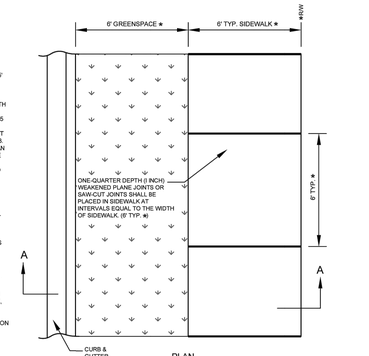
CURB & GUTTER NOTES:

1. CONTRACTION JOINTS SHALL BE 1/8" TO 3/8" X 1 1/2" AT 15 FT. INTERVALS. ALL CONTRACTION JOINTS AND COLD JOINTS SHALL BE FILLED WITH JOINT SEALANT TO FINISHED GRADE.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
3. EXPANSION MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES AND ENDS OF CURB RETURNS. THE EXANSION MATERIAL SHALL BE 1/2" ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER THAN GRADE.
4. EXPANSION JOINTS SHALL BE FILLED WITH JOINT SEALANT SHAPED TO THE CROSS SECTION OF THE CURB AND CONSTRUCTED AT RIGHT ANGLES WITH THE CURB LINE.
5. FINISH SHALL BE MEDIUM BROOM FINISH.
6. CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
7. CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SL" OR AND APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
8. GUTTER SHALL MATCH THE CROSS SLOPE OF THE ROAD WITHIN ± 0.5%. GUTTER DRAINING THE OPPOSITE DIRECTION AS THE ROAD WILL NOT BE ACCEPTED UNLESS NOTED OTHERWISE ON THE PLANS.
9. VERTICAL PART OF CURB SHALL HAVE A MAXIMUM BATTER OF 1".

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *STREET DETAILS*	DATE: February 20, 2025
		DESCRIPTION: **TYPE 'D' CURB & GUTTER**	SHEET: **ST4**

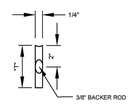
SIDEWALK CONSTRUCTION NOTES:

1. SIDEWALK SHALL HAVE TOOLED OR SAW-CUT TRANSVERSE JOINTS AT INTERVALS EQUAL TO THE WIDTH OF SIDEWALK (5' TYP.). THESE WEAKENED PLANE (CONTRACTION) JOINTS SHALL BE CONSTRUCTED TO 1/4 DEPTH OF THE SIDEWALK THICKNESS AND SHALL BE 1/8" TO 3/8" WIDE.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
3. CONCRETE SHALL HAVE A MINIMUM CEMENT CONTENT OF 6.5 BAGS per Cu. Yd. WITH 5-12% ± 1-1/2% AIR ENTRAINMENT.
4. EXPANSION JOINT MATERIAL SHALL BE PREFORMED ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER, AND FILLED WITH SILICONE SEALER TO FINISHED GRADE.
5. ALL COLD JOINTS AND SAW-CUT JOINTS SHALL BE FILLED TO FINISHED GRADE WITH JOINT SEALANT.
6. CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
7. CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SL" OR AND APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
8. ALL SIDEWALKS SHALL HAVE ONE-HALF INCH ROLLED EDGES AND A BROOMED FINISH.
9. SEE STANDARD DRIVEWAY DETAILS FOR SIDEWALK CONSTRUCTION THROUGH DRIVEWAYS.
10. WHERE LONGITUDINAL (RUNNING) SLOPE OF SIDEWALK EXCEEDS 5.0%, THE SIDEWALK SHALL MATCH THE SLOPE OF THE ADJACENT ROADWAY.
11. LANDING REQUIRED WHEN SIDEWALK CHANGES DIRECTION DUE TO AN OBJECT (E.G. TELEPHONE/LIGHT POLE, MANHOLE, ETC.).
12. ALL SIDEWALKS REQUIRE INSPECTION BEFORE AND AFTER CONCRETE PLACEMENT. CONTACT THE ENGINEERING DIVISION (575-8206) TO SCHEDULE AN INSPECTION.
13. MINIMUM EFFECTIVE WIDTH FOR SIDEWALK IS 5 FEET. SEE UNIFIED CODE SECTION 171.14 FOR GUIDANCE.

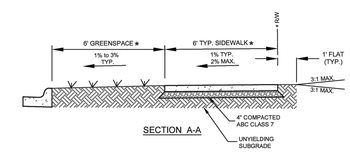


PLAN

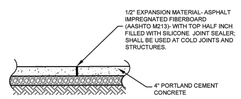
★ SIDEWALK AND GREENSPACE WIDTHS MAY VARY BASED ON CURRENT MASTER STREET PLAN OR APPROVED SUBDIVISION PLAT. CONFIRM DIMENSIONS PRIOR TO CONSTRUCTION



JOINT SEALANT DETAIL



SECTION A-A



ELEVATION

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SIDEWALK DETAILS*	DATE: May 31, 2020 REVISED MAY 20, 2021 February 28, 2022 April 20, 2023	SHEET:
		DESCRIPTION: **SIDEWALK WITH GREENSPACE**		**SW1**

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS
18 December 2025

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12-18-2025
Title
SITE DETAILS
Sheet No.
C2.02

Project Name
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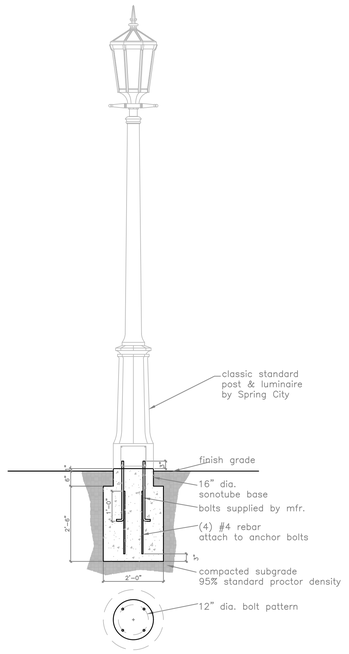
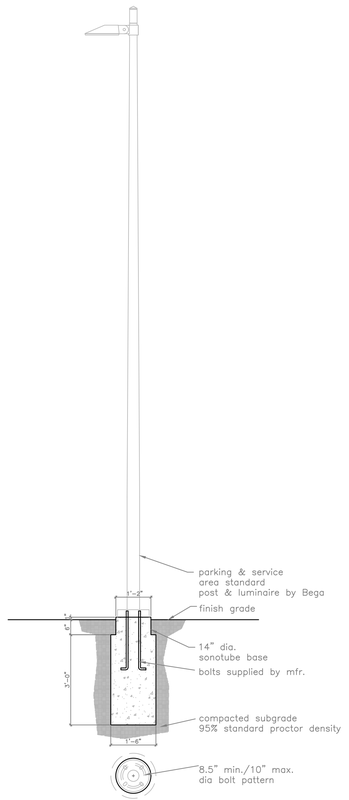
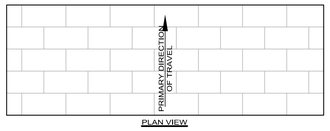


1 UA PEDESTRIAN LIGHT - CLASSIC
NTS



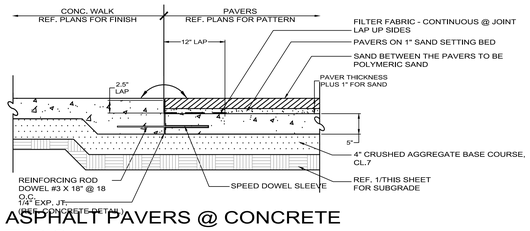
1 UA PARKING & SERVICE AREA LIGHT - CLASSIC/CONTEMPORARY
NTS



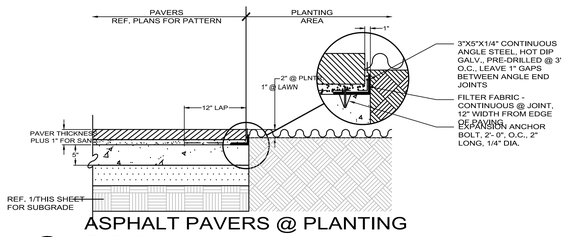
PLAN VIEW

ASPHALT PAVER NOTES:
1. ASPHALT PAVERS ARE TO BE PLACED IN A RUNNING BOND PATTERN, UNLESS OTHERWISE NOTED ON PLAN, AND LAID OUT TO BE PERPENDICULAR WITH THE PRIMARY DIRECTION OF TRAVEL. (SEE ABOVE DIAGRAM)
2. BEGIN LAYOUT FROM THE CENTER AND WORK OUTWARDS TO ACHIEVE EQUAL DIMENSIONED PAVERS ON EACH END.
3. IF LAYOUT DICTATES THAT AN END ROW OF PAVERS WILL BE LESS THAN 1/3 OF THE PAVER LENGTH, THEN 2 ROWS OF PAVERS WILL BE TRIMMED IN ORDER TO GIVE A MORE UNIFORM APPEARANCE.
4. JOINTS ARE TO BE TIGHT AND POLYMERIC SAND (DARK GRAY COLOR) IS TO BE SWEPT INTO ALL JOINTS AFTER INSTALLATION PER MANUFACTURES DIRECTION. POLYMERIC SAND COLOR MUST BE APPROVED BY PROJECT ENGINEER PRIOR TO INSTALLATION.

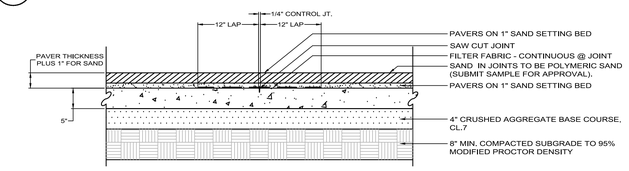
03 ASPHALT PAVERS LAYOUT
N.T.S.



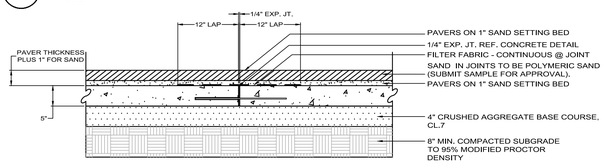
04 ASPHALT PAVERS @ CONCRETE TYPICAL
N.T.S.



05 ASPHALT PAVERS @ PLANTING TYPICAL
N.T.S.



06 ASPHALT PAVERS @ CONTROL JOINT TYPICAL
N.T.S.



07 ASPHALT PAVERS @ EXPANSION JOINT TYPICAL
N.T.S.

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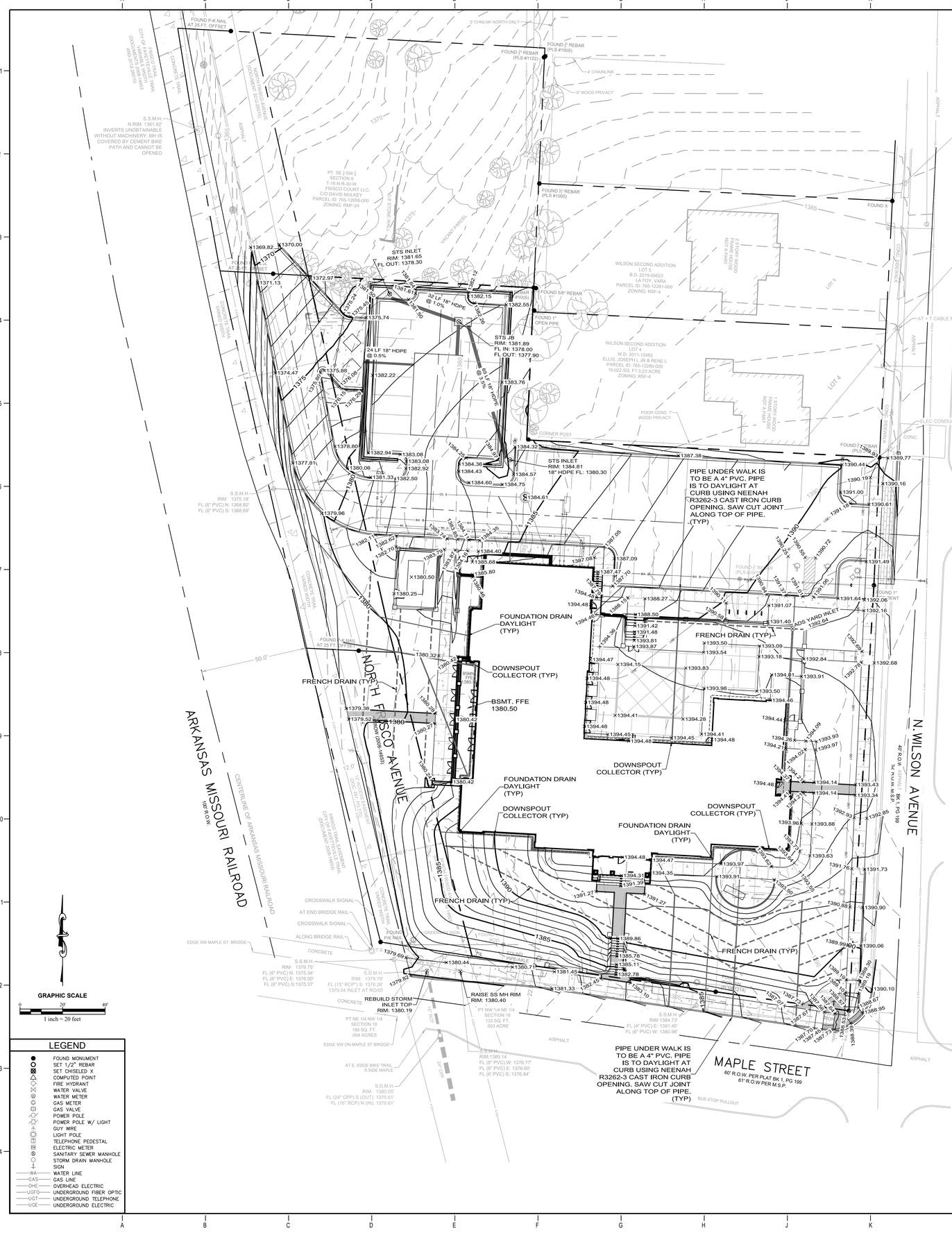
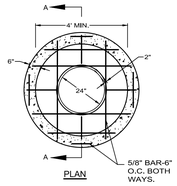
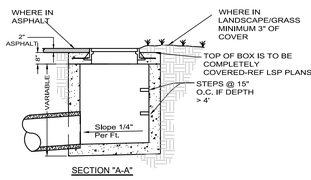

ILA STREET
50' R.O.W. PER PLAT BK 1, PG 199
MAPLE STREET
60' R.O.W. PER PLAT BK 1, PG 199
61' R.O.W PER M.S.P.
N. WILSON AVENUE
40' R.O.W
NORTH FOSCO AVENUE
ARKANSAS MISSOURI RAILROAD
100' R.O.W.
FOUND P.K NAIL AT 25 FT. OFFSET
FOUND 1/2" REBAR (PLS #1122)
FOUND 1/2" REBAR (PLS #1005)
FOUND 5/8" REBAR
FOUND 1" OPEN PIPE
FOUND 1/2" REBAR (PLS #1005)
STS INLET RIM: 1381.65 FL OUT: 1378.30
STS JB RIM: 1381.89 FL IN: 1378.00 FL OUT: 1377.90
STS INLET RIM: 1384.81 18" HDPE FL: 1380.30
52 LF 18" HDPE @ 1.0%
24 LF 18" HDPE @ 0.5%
69 LF 18" HDPE @ 3.0%
PIPE UNDER WALK IS TO BE A 4" PVC. PIPE IS TO DAYLIGHT AT CURB USING NEENAH R3262-3 CAST IRON CURB OPENING. SAW CUT JOINT ALONG TOP OF PIPE. (TYP)
FOUNDATION DRAIN DAYLIGHT (TYP)
FRENCH DRAIN (TYP)
DOWNSPOUT COLLECTOR (TYP)
ADS YARD INLET
BSMT. FFE 1380.50
REBUILD STORM INLET TOP RIM: 1380.19
RAISE SS MH RIM RIM: 1380.40
PIPE UNDER WALK IS TO BE A 4" PVC. PIPE IS TO DAYLIGHT AT CURB USING NEENAH R3262-3 CAST IRON CURB OPENING. SAW CUT JOINT ALONG TOP OF PIPE. (TYP)
WILSON SECOND ADDITION LOT 5 B.D. 2019-00623 LA FOY, VARA PARCEL ID: 765-12281-000 ZONING: RSF-4
WILSON SECOND ADDITION LOT 4 W.D. 2011-12482 ELLIS, JOSEPH L JR & RENE L PARCEL ID: 765-15280-000 10,022 SQ. FT 0.23 ACRE ZONING: RSF-4
PT. SE ¼ SW ¼ SECTION 9 T-16-N R-30-W FRISCO COURT LLC, C/O DAVID MULKEY PARCEL ID: 765-12658-000 ZONING: RMF-24
VACANT PARCEL
2 STORY WOOD FRAME APARTMENTS NOT A PART
POOR COND. 7' WOOD PRIVACY
6' WOOD PRIVACY
4' CHAINLINK
5' CHNLNK NORTH ONLY
CONCRETE TRAIL VARIED WIDTH
ASPHALT
CONCRETE
CROSSWALK SIGNAL
AT END BRIDGE RAIL
ALONG BRIDGE RAIL
EDGE SW MAPLE ST. BRIDGE
EDGE SW ON MAPLE ST BRIDGE
AT E. EDGE BIKE TRAIL S.SIDE MAPLE
PT NE 1/4 NW 1/4 SECTION 16 189 SQ. FT .004 ACRES
PT NW 1/4 NE 1/4 SECTION 16 133 SQ. FT .003 ACRE
S.S.M.H RIM: 1375.19' FL (6" PVC) N: 1368.80' FL (6" PVC) S: 1368.69'
S.S.M.H RIM: 1375.75' FL (6" PVC) N: 1375.34' FL (8" PVC) E: 1376.00' FL (6" PVC) S:1375.37'
S.D.M.H RIM: 1379.79' FL (15" RCP) S: 1376.26' 1379.04 INLET AT ROAD
S.S.M.H RIM:1384.73' FL (4" PVC) E: 1381.45' FL (8" PVC) W: 1380.98'
S.S.M.H RIM:1380.14' FL (8" PVC) W: 1376.77' FL (8" PVC) E: 1376.80' FL (6" PVC) S: 1376.84'
S.D.M.H RIM: 1380.05' FL (24" CPP) S (OUT): 1375.61' FL (15" RCP) N (IN): 1375.61'
ELEC CONDUIT TO GRND
AT + T CABLE MARKER
FOUND 1/2" REBAR (PLS #1005)
FOUND 1/2" REBAR (PLS #1122)
FOUND P.K NAIL AT 25 FT. OFFSET
FOUND P.K NAIL AT 25 FT. OFFSET
FOUND P.K NAIL
FOUND P.K NAIL
FOUND P.K NAIL

NOTE: RING AND COVER ARE 24" TRAFFIC RATED TYPE MATERIALS. PROJECTIONS THROUGH PAVEMENT SUCH AS MANHOLE RINGS, VALVE BOXS, ETC, ARE TO BE WRAPPED WITH EXP. JOINT MATERIAL TO PREVENT BOND WITH CONCRETE. BOXES 4' DEEP OR GREATER ARE TO HAVE STANDARD MANHOLE STEPS.

SEE PLANS FOR JUNCTION BOX LOCATION. WHEN IN LANDSCAPE BEDS OR GRASS AREAS ALLOW FOR 3" OF TOPSOIL AND SOD OR PLANT MATERIAL TO BE PLACE OVER THE BOX SO THAT MANHOLE LID IS VISIBLE BUT CONCRETE TOP IS NOT.



PLAN

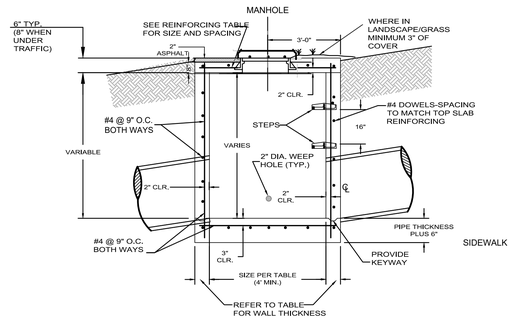


SECTION "A-A"

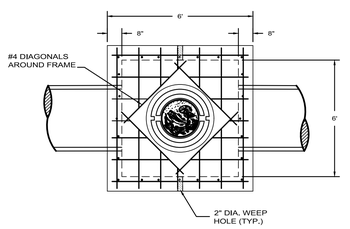
"DIA. OF STRUCTURE	WALL THICKNESS	DIA. OF OUTLET PIPE
4' I.D.	6"	15" THRU 27"
5' I.D.	8"	30" THRU 42"
6' I.D.	8"	48" THRU 54"
8' I.D.	10"	60" THRU 72"

NOTE:
TYPE II RING & COVER REQUIRED WHEN SUBJECTED TO TRAFFIC.

1 CIRCULAR JUNCTION BOX
NTS



ELEVATION



PLAN VIEW

JUNCTION BOX NOTES

1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. ALL REINFORCEMENT BARS SHALL BE GRADE 60 AND SHALL HAVE A MINIMUM 3" COVER UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 p.s.i. -TOP 18" SHALL BE CAST-IN-PLACE.
4. INVERTS SHALL BE POURED MONOLITHICALLY WITH FOOTING.
5. PIPES MAY ENTER BOX FROM ANY ANGLE OF ELEVATION AS DIRECTED BY THE ENGINEER. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 2".
6. STEPS ARE REQUIRED IN STORM DRAIN MANHOLES THAT ARE AT 4 FT OF DEPTH AND GREATER (FROM INVERT TO RIM). CENTERLINE OF MANHOLE LID SHALL BE 2 FT FROM THE WALL WHERE STEPS ARE LOCATED. STEPS (6" x 12") SHALL BE COPOLYMER POLYPROPYLENE PLASTIC WITH STEEL CORE AT 16" APART.
7. LIMIT DEFLECTION TO 60 DEGREES. IF GREATER, USE NEXT LARGER MANHOLE DIAMETER/SIZE.
8. INSIDE DIMENSION BASED ON PLAN CALLOUTS. IF NO CALLOUT IS SPECIFIED, USE THE TABLE BELOW.

INSIDE DIMENSION	DIAMETER OF OUTLET PIPE	MIN. WALL THICKNESS	*TOP CONCRETE SLAB REINFORCING	MIN. WALL THICKNESS
4'	15" – 18"	6"	# 4'S @ 8" O.C. E.W.	6"
5'	24" – 42"	8"	# 4'S @ 7" O.C. E.W.	8"
6'	48" – 54"	8"	# 5'S @ 9" O.C. E.W.	8"

* WHEN UNDER TRAFFIC, USE # 5'S @ 6" O.C. E.W.

TOP SLAB REINFORCEMENT PER STRUCTURE SIZE & REINFORCING TABLE

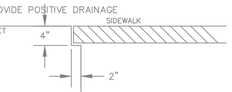
2 RECTANGULAR JUNCTION BOX
NTS

DROP INLET NOTES

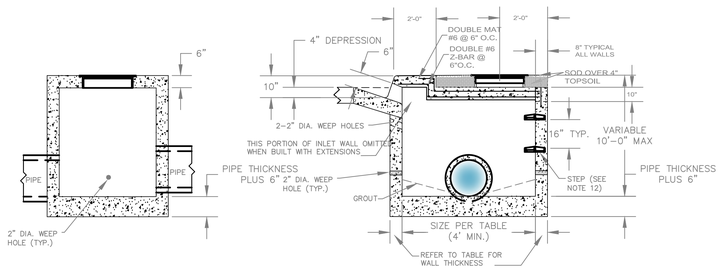
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
2. ALL REINFORCEMENT BARS SHALL BE GRADE 60 AND SHALL HAVE A MINIMUM 2" COVER UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI – TOP 18" SHALL BE CAST–IN–PLACE.
4. BASE AND INLET WALLS SHALL BE CAST MONOLITHICALLY FOR CIRCULAR STRUCTURES.
5. INVERTS SHALL BE POURED MONOLITHICALLY WITH FOOTING.
6. CURB INLET BACK OPENING LOCATIONS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. WHEN AN INLET IS PLACED ADJACENT TO CONCRETE PAVEMENT, THE GUTTER DEPRESSION SHALL BE FORMED IN CONCRETE PAVEMENT.
8. PIPES MAY ENTER BOX FROM ANY ANGLE OF ELEVATION AS DIRECTED BY THE ENGINEER. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 2".
9. THE EXPANSION JOINT SHALL HAVE A THICKNESS OF 1/2" AND CONFORM TO AASHTO M213.
10. REFER TO CURB AND GUTTER DETAILS FOR APPROPRIATE CURB CONFIGURATION AND GUTTER DIMENSIONS AT EACH INLET LOCATION.
11. REFER TO PLAN AND PROFILE SHEETS TO DETERMINE EXTENSIONS AND SIZE (IF ANY) ACCOMPANYING DROP INLETS.
12. STEPS ARE REQUIRED IN STORM DRAIN MANHOLES THAT ARE AT 4 FT OF DEPTH AND GREATER (FROM INVERT TO RIM). CENTERLINE OF MANHOLE LID SHALL BE 2 FT FROM THE WALL WHERE STEPS ARE LOCATED. STEPS (6" x 12") SHALL BE COPOLYMER POLYPROPYLENE PLASTIC WITH STEEL CORE AT 16" APART.
13. PRIOR TO AND DURING PLACEMENT OF PAVEMENT IN FRONT OF INLETS, THE CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES. THE METHODS USED FOR THIS WORK SHALL BE APPROVED BY THE ENGINEER.
14. LIMIT DEFLECTION TO 60 DEGREES. IF GREATER, USE NEXT LARGER MANHOLE DIAMETER/SIZE.

INSIDE DIMENSION	DIAMETER OF OUTLET PIPE	MIN. WALL THICKNESS	*TOP CONCRETE SLAB REINFORCING	MIN. WALL THICKNESS
4'	15" – 18"	6"	# 4'S @ 8" O.C. E.W.	6"
5'	24" – 42"	8"	# 4'S @ 7" O.C. E.W.	8"
6'	48" – 54"	8"	# 5'S @ 9" O.C. E.W.	8"

* WHEN UNDER TRAFFIC, USE # 5'S @ 6" O.C. E.W.

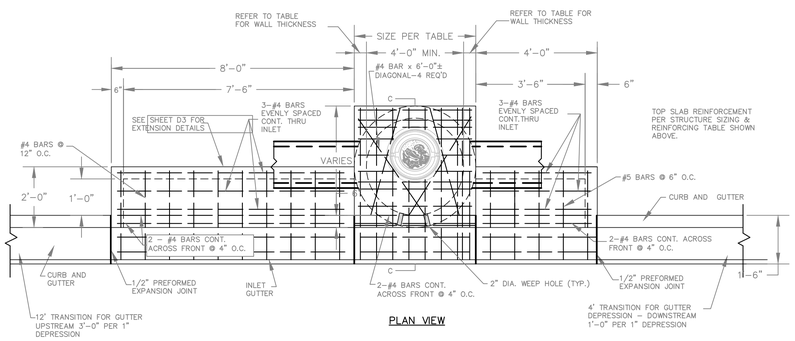


NOTCH FOR SIDEWALKS



SECTION / ELEVATION

SECTION C–C

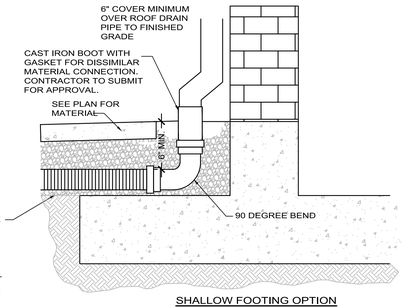


PLAN VIEW

CIRCULAR DROP INLET DETAILS

PLAN VIEW

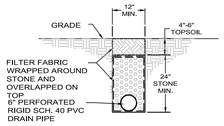
3 MODIFIED COF D1 DETAIL
N.T.S.



SHALLOW FOOTING OPTION

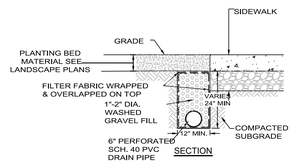
CONTRACTOR SHALL REVIEW STRUCTURAL'S FOOTING DETAILS AND COORDINATE TO PLACE BOOT IMMEDIATELY ADJACENT TO THE BUILDING FACE.	CONTRACTOR SHALL REVIEW FINAL ARCHITECTURAL PLANS AND VERIFY THAT ALL ROOF DOWNSPOUTS WILL BE COLLECTED AND CONNECTED TO DRAINAGE SYSTEM, UNLESS OTHERWISE NOTED.

4 DOWNSPOUT COLLECTOR
NTS



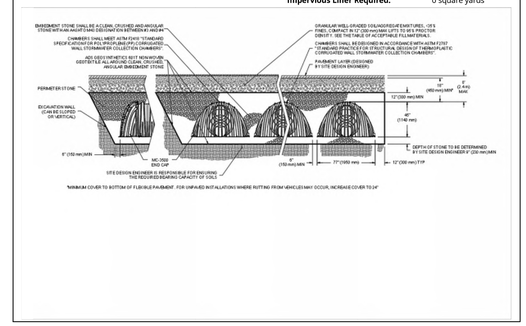
SECTION

5 FRENCH DRAIN DETAIL
N.T.S.



SECTION

6 FRENCH DRAIN AGAINST SIDEWALK DETAIL



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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS

18 December 2025

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12-18-2025
Title
DRAINAGE DETAILS
Sheet No.
C3.02

Project Name
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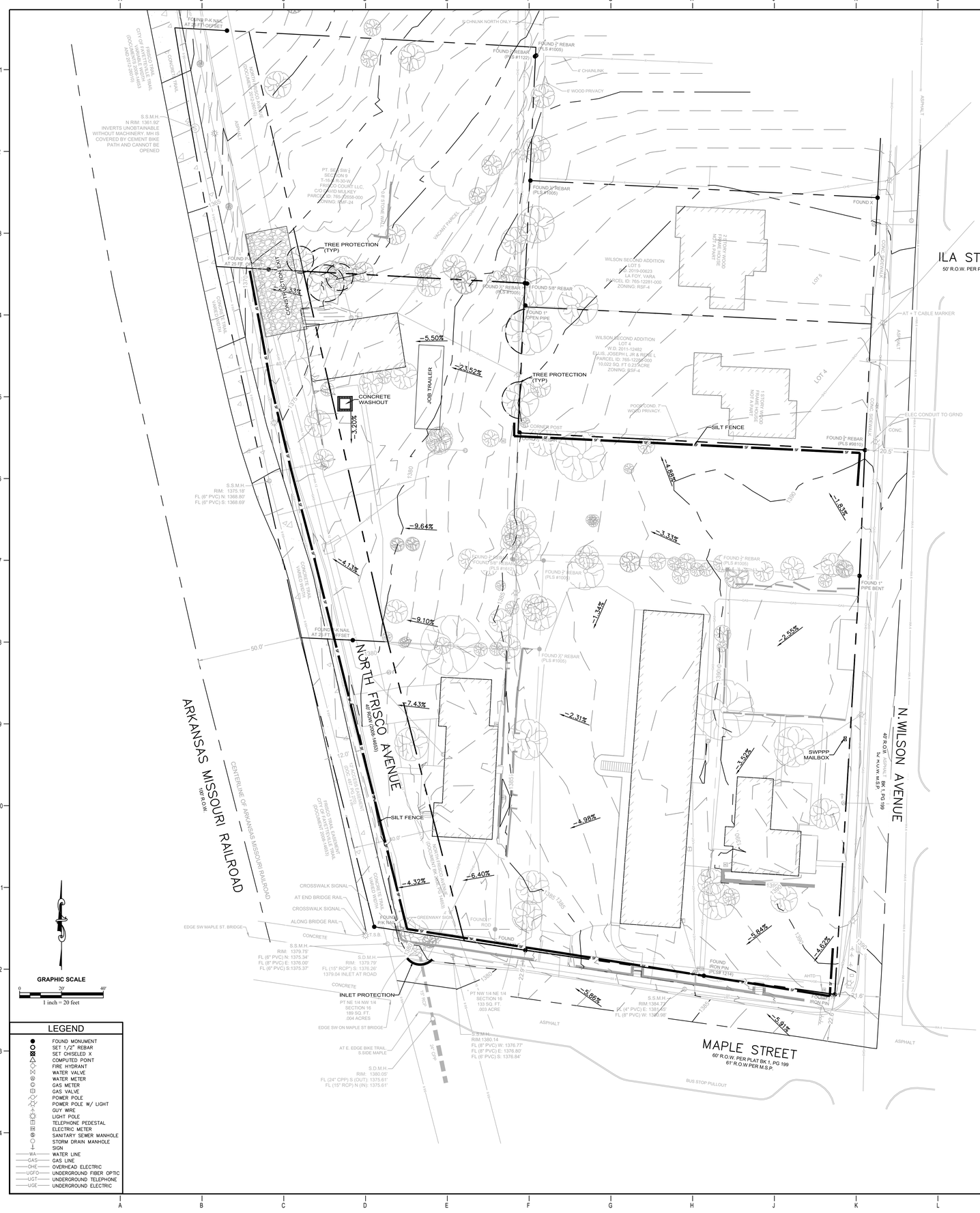
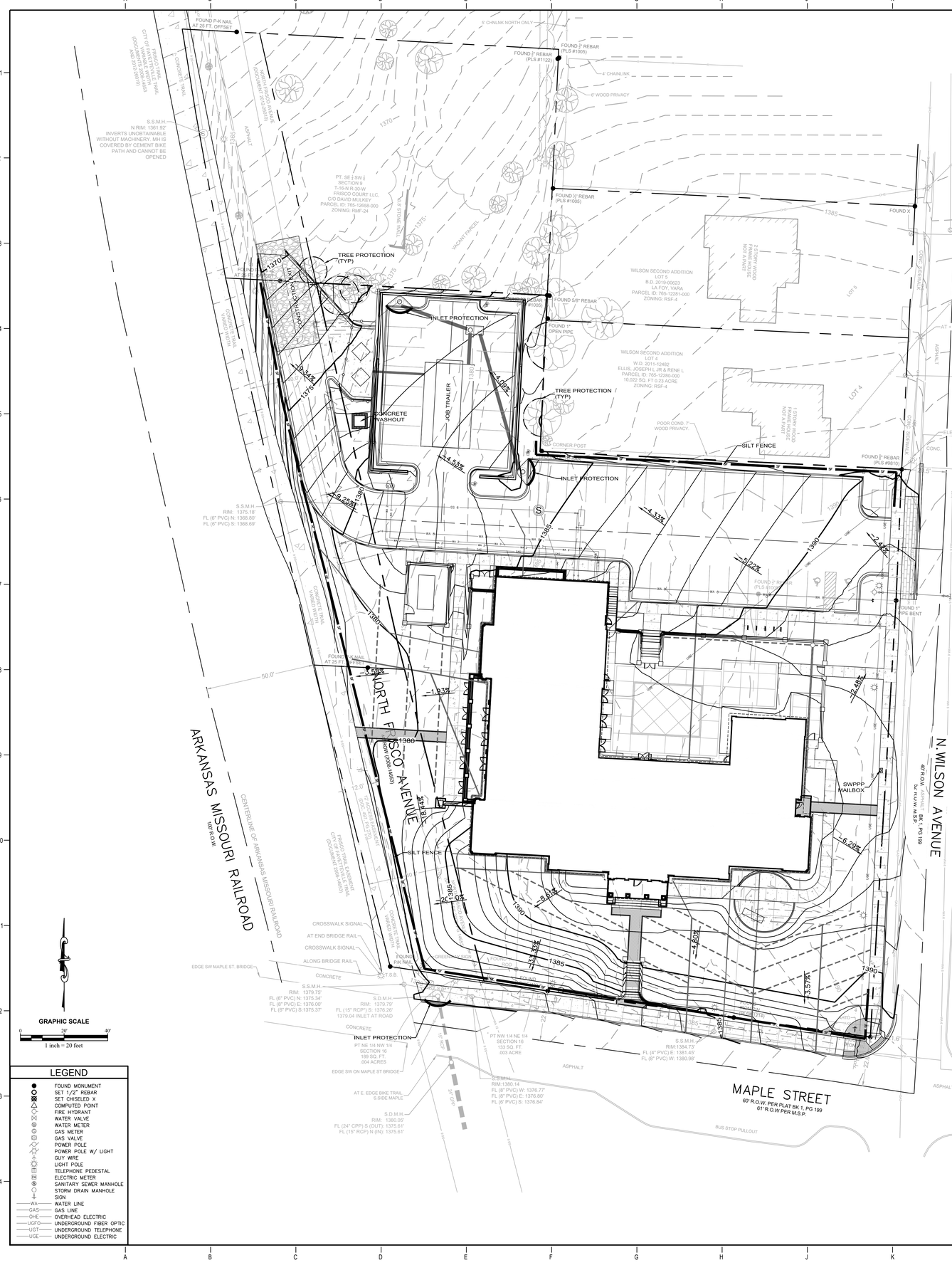

ILA STREET
50' R.O.W. PER PLAT BK 1, PG 199
MAPLE STREET
60' R.O.W. PER PLAT Bk 1, PG 199
61' R.O.W PER M.S.P.
NORTH FRISCO AVENUE
ALLEY R.O.W. (DOC# 1408-14057)
ARKANSAS MISSOURI RAILROAD
100' R.O.W.
N. WILSON AVENUE
40' R.O.W.
TREE PROTECTION (TYP)
CONSTRUCTION ENTRY
CONCRETE WASHOUT
JOB TRAILER
SILT FENCE
INLET PROTECTION
PT NW 1/4 NE 1/4 SECTION 16 133 SQ. FT. .003 ACRE
PT NE 1/4 NW 1/4 SECTION 16 189 SQ. FT. .004 ACRES
WILSON SECOND ADDITION LOT 4 W.D. 2011-12482 ELLIS, JOSEPH L JR & RENE L PARCEL ID: 765-12290-000 10,022 SQ. FT 0.23 ACRE ZONING: RSF-4
WILSON SECOND ADDITION LOT 5 W.D. 2019-00623 LA FOY, VARA PARCEL ID: 765-12281-000 ZONING: RSF-4
VACANT PARCEL
PT. SE SW 1/4 SECTION 9 T-16-N, R-30-W FRISCO COURT LLC, C/O DAVID MULKEY PARCEL ID: 765-27658-000 ZONING: RMF-24
FOUND P.K NAIL AT 25 FT. OFFSET
FOUND P.K NAIL AT 25 FT. OFFSET
FOUND P.K NAIL AT 25 FT. OFFSET
FOUND ½" REBAR (PLS #1122)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND ½" REBAR (PLS #1005)
FOUND 5/8" REBAR
FOUND 1" OPEN PIPE
FOUND 1" PIPE BENT
FOUND IRON PIN (PLS# 1314)
FOUND IRON PIN
FOUND "X" CUT
FOUND "X"
FOUND "X"
FOUND "X"



GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR APPLICATION, PAYMENT, & ACQUISITION OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT.
3. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE ARKANSAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL TO THE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-8998 AT LEAST FOUR WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
4. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES, MARKINGS & RECORD DOCUMENTS. LOCATIONS OF UNDERGROUND UTILITIES MAY VARY SIGNIFICANTLY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL MARK LOCATE & MARK UTILITY LINES BEFORE CONSTRUCTION & UNCOVER AS NEEDED.
5. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY & COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
6. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER & THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITION.
8. ALL SEWER LINES & APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF FAYETTEVILLE WATER AND SEWER STANDARD PIPELINE MATERIALS & CONSTRUCTION SPECIFICATIONS & DETAILS, LATEST EDITION.
9. ALL WATER LINES & APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARD PIPELINE MATERIALS & CONSTRUCTION SPECIFICATIONS & DETAILS, LATEST EDITION.
10. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECT & ADJUSTED TO MATCH PROPOSED GRADE AS NEEDED
11. CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS & PAVING TO CITY OF FAYETTEVILLE &/OR ADA STANDARDS. VERIFY.
12. TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
13. ELECTRICAL & LIGHTING INFORMATION SHOWN FOR COORDINATION PURPOSES ONLY. SEE MEP SHEETS FOR DETAILS & SPECIFICATIONS.
14. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONSTRUCTION CONFLICTS THAT BECOME APPARENT & REVIEW INSTRUCTIONS &/OR PLAN REVISIONS PRIOR TO MAKING ANY CHANGES.

EROSION CONTROL NOTES

1. WHERE PERMITTING IS CONTRACTOR SHALL CONFORM TO ALL CONSTRUCTION STORM WATER & EROSION CONTROL PERMITTING REQUIREMENTS BY EPA PHASE II STORM WATER REGULATIONS AS ADMINISTERED BY THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY & A NOTICE OF INTENT SHALL ALSO BE FILED WITH THE LOCAL MUNICIPAL AUTHORITY.
7. CONTRACTOR SHALL INSTALL GENERAL EROSION CONTROL MEASURES & INLET PROTECTION AT ALL EXISTING & NEWLY CONSTRUCTED STORM DRAIN INLETS, HEADWALLS, CURB CUTS, FLUMES, ETC. INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY AFTER CONSTRUCTION OF INLET STRUCTURES.
4. ALL VEHICLES MUST USE THE CONSTRUCTION ACCESS & CONTRACTOR SHALL CONTROL & PREVENT OFF-SITE TRACKING OF CONSTRUCTION RUNOFF & SEDIMENT TO ADJACENT PROPERTY & PUBLIC ROADS.
5. CLEAN SOIL TRACKED ONTO STREETS & OTHER PAVED SURFACES DAILY WITH BROOM & SHOVEL. DO NOT USE POWER BROOM EQUIPMENT OR WATER TO CLEAN SURFACES.
6. WHERE WHEEL WASHING IS REQUIRED, PERFORM ON A STONE STABILIZED AREA THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.
7. CONTRACTOR IS RESPONSIBLE FOR CLEANING & MAINTAINING EROSION & SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH ADEQ & LOCAL AUTHORITY REQUIREMENTS.
8. ALL AREAS WITHIN THE PARKING LOT ARE TO RECEIVE A GRAVEL BASE TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 135 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.
9. ALL AREAS NOT WITHIN THE PARKING LOT ARE TO RECEIVE LOOSE STRAW TO PROVIDE EROSION CONTROL IF WORK IS NOT PROGRESSING IN AN ORDERLY MANNER. A RATE OF 1.5 TONS/ACRE IS TO BE APPLIED WITHIN TWO WEEKS OF FINAL GRADING.

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CHASE A. HENDRICKS
18 December 2025

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

EROSION CONTROL PHASE 2

Sheet No.

C4.02

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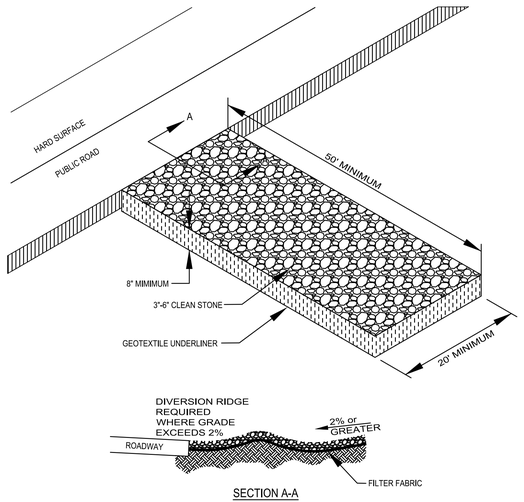


SECTION A-A

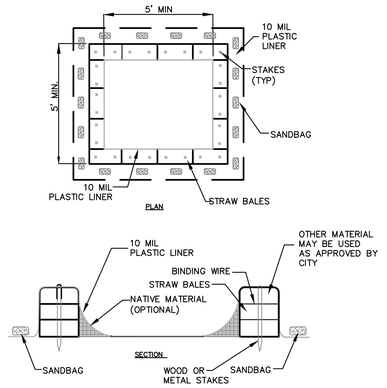
CONSTRUCTION EXIT NOTES

1. REPLACE CONTAMINATED STONE AS REQUIRED TO PREVENT TRACKING OF SEDIMENT OR MUD ON PUBLIC STREETS.
2. CLEAN STREETS DAILY WITH BROOM AND SHOVEL. THE USE OF WATER IS PROHIBITED.
3. ALL VEHICLES MUST USE CONSTRUCTION EXIT.
4. WHEN WHEEL WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

1 CONSTRUCTION ACCESS
N.T.S.

WASHOUT NOTES

1. NO WASHING OUT OF CONCRETE TRUCKS OR WASHING OF SWEEPINGS FROM EXPOSED AGGREGATE CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS IS ALLOWED.
2. EXCESS CONCRETE IS NOT ALLOWED TO BE DUMPED ON-SITE, EXCEPT IN DESIGNATED TEMPORARY CONCRETE WASHOUT PIT AREAS.
3. ON-SITE TEMPORARY CONCRETE WASHOUT AREAS WILL BE LOCATED AT LEAST 50 FEET FROM STORM DRAINS, OPEN DITCHES, OR WATER BODIES AS DETERMINED IN THE FIELD.
4. TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
5. WASHOUT FACILITIES WILL BE CLEANED OUT OR REPLACED ONCE THE WASHOUT IS 75% FULL.
6. PLASTIC LINING MATERIAL WILL BE MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND WILL BE FREE OF HOLES, TEARS, OR OTHER DEFECTS.
7. WHEN WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR WORK, THE HARDENED CONCRETE WILL BE REMOVED AND DISPOSED OF OFFSITE. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES WILL BE REMOVED FROM THE SITE AND DISPOSED OF.



2 CONCRETE WASHOUT
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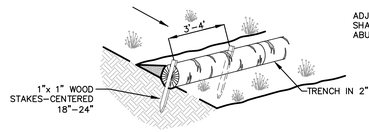
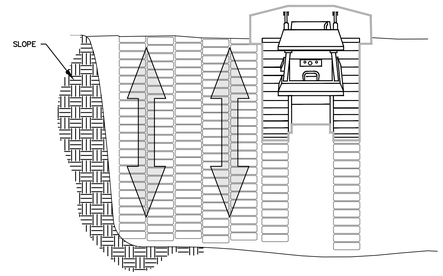


INSTALLATION NOTES

1. WATTLES SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR, OR COCONUT FIBER.
2. NOT FOR USE IN CONCENTRATED FLOW AREAS.
3. THE WATTLES SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF TWO (2) INCHES.
4. WATTLES SHALL BE INSTALLED PER MANUFACTURERS SPECIFICATIONS.
5. ON SLOPES, WATTLES SHOULD BE INSTALLED ON CONTOUR WITH A SLIGHT UPWARD CURVE AT THE END OF THE ROW IN ORDER TO CREATE PONDING.
6. RUNNING LENGTHS OF WATTLES SHOULD BE ABUTTED FIRMLY TO ENSURE NO LEAKAGE AT THE ABUTMENTS.
7. WHEN INSTALLING RUNNING LENGTHS OF WATTLES, BUTT THE SECOND WATTLE TIGHTLY AGAINST THE FIRST, DO NOT OVERLAP THE ENDS. STAKE THE WATTLES AT EACH END AND FOUR FOOT ON CENTER.
8. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE WATTLE. LEAVING 2 – 3 INCHES OF THE STAKE PROTRUDING ABOVE THE WATTLE. WHEN INSTALLING WATTLES ON SLOPES, DRIVE THE STAKES PERPENDICULAR TO THE SLOPE.
9. DRIVE THE FIRST END STAKE OF THE SECOND WATTLE AT AN ANGLE TOWARD THE FIRST WATTLE IN ORDER TO HELP ABUT THEM TIGHTLY TOGETHER.
10. STAKING: THE CITY RECOMMENDS USING WOOD STAKES TO SECURE THE WATTLES. 1"/2" TO 5/8" REBAR IS ALSO ACCEPTABLE WITH A SAFETY CAP.. BE SURE TO USE A STAKE THAT IS LONG ENOUGH TO PROTRUDE SEVERAL INCHES ABOVE THE WATTLE.
11. THE CONTRACTOR SHALL INSPECT WATTLES EVERY TWO WEEKS AND AFTER ANY SIGNIFICANT STORM EVENT AND MAKE REPAIRS OR REMOVE SEDIMENT ACCUMULATED BEHIND WATTLE AS NECESSARY.
12. SEDIMENT ACCUMULATED BEHIND WATTLE SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DIAMETER OF THE WATTLE.
13. WATTLES SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND IS ACCEPTED BY THE CITY.

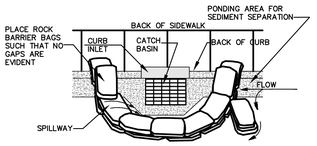
WATTLE SPACING	
SLOPE	MAXIMUM SPACING
1:1	20'
2:1	30'
3:1	40'
4:1	50'

3 STRAW WATTLE
N.T.S.



NOTES:
1. ONCE THE SLOPE HAS BEEN SHAPED TO FINAL GRADE, A FINAL PASS WITH A TRACKED VEHICLE SHALL BE MADE PERPENDICULAR TO THE GRADE (UP AND DOWN THE SLOPE) AS SHOWN.

4 SOIL ROUGHENING
N.T.S.



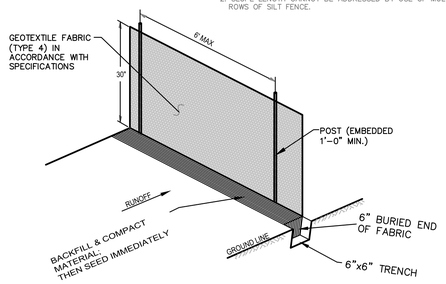
NOTES:
1. BAGS OF WOVEN GEOTEXTILE FABRIC, FILLED WITH GRAVEL MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
2. LEAVE ONE SANDBAG GAP IN THE TOP ROW ON THE SIDE AWAY FROM FLOW, TO PROVIDE A SPILLWAY; OR IN THE CENTER IF PONDING IS NEEDED ON BOTH SIDES.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY

CURB INLET PROTECTION SETUP
N.T.S.

5 CURB INLET PROTECTION
N.T.S.

Maximum Slope Length for Silt Fence		
Slope – Percent	Maximum Slope Length (ft) Above Fence	
	Standard (18" High) Silt Fence	Reinforced (30" High) Silt Fence
2 (or less)	150	250
5	100	250
10	50	150
15	35	100
20	25	70
25	20	55
30	15	45
35	15	40
40	15	35
45	10	30
50	10	25

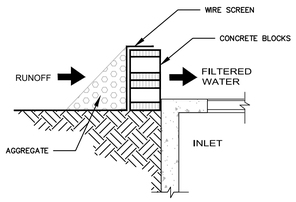
NOTES:
1. THE SLOPE LENGTH SHOWN IS THE DISTANCE FROM THE FENCE TO THE DRAINAGE DIVIDE OR THE NEAREST UPSLOPE CHANNEL.
2. SLOPE LENGTH CANNOT BE ADDRESSED BY USE OF MULTIPLE ROWS OF SILT FENCE.



SILT FENCE NOTES

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. HERE FENCE CANNOT BE TRENCHED IN (e.g. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

6 SILT FENCE
N.T.S.



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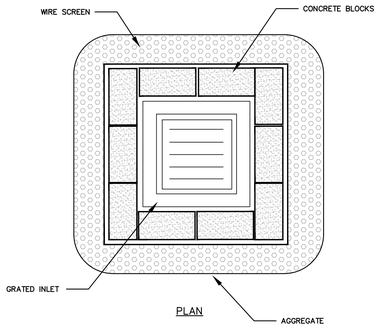
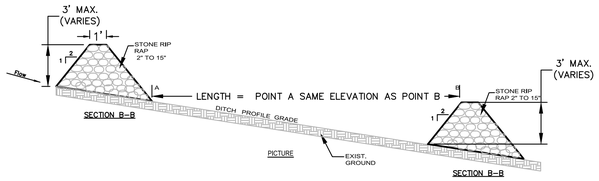
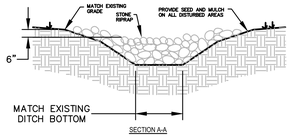


PLAN

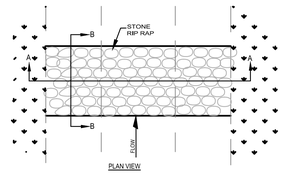
7 INLET PROTECTION
N.T.S.





INSTALLATION:
1. EXCAVATE KEY-WAY (IF REQUIRED)
2. A GEOTEXTILE FABRIC SHALL BE INSTALLED OVER THE SOIL SURFACE WHERE THE ROCK IS TO BE PLACED (IF REQUIRED)
3. ROCK DIAMETERS SHOULD BE 2" TO 15" IN DIAMETER
4. ROCK DITCH CHECKS SHOULD NOT EXCEED 3 FEET
5. STONES SHOULD BE PLACED UP THE CHANNEL BANKS TO PREVENT WATER FROM CUTTING AROUND THE DITCH CHECK
6. INSTALLATION SHALL BE PLACED EITHER BY HAND OR MECHANICALLY AND NOT JUST DUMPED TO ACHIEVE COMPLETE COVERAGE OF THE DITCH AND ENSURE THE CENTER OF THE DAMN IS LOWER THAN THE EDGES
7. MAXIMUM SPACING BETWEEN MULTIPLE DAMS SHOULD BE SUCH THAT THE TOE OF THE UPSTREAM CHECK IS THE SAME AS THE TOP OF THE DOWNSTREAM CHECK

INSPECTION:
- INSPECT ROCK DITCH CHECKS EVERY (7) CALENDAR DAYS AND WITH-IN 24 HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2" PRECIPITATION.
- SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 1/2 THE ORIGINAL CHECK HEIGHT
- IN THE CASE OF GRASS-LINED DITCHES OR SWALES, ROCK DITCH CHECKS SHOULD BE REMOVED WHEN THE GRASS HAS MATURED SUFFICIENTLY TO PROTECT THE DITCH OR SWALE. IF THE SLOPE IS 4% OR LESS.
- THE AREA BENEATH THE ROCK DITCH CHECKS SHOULD BE SEEDED AND MULCHED IMMEDIATELY AFTER THE CHECK DAM REMOVAL



8 ROCK CHECK DAM
N.T.S.

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS
18 December 2025

No.	Issue	Date

Job No.
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Date
12-18-2025
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EROSION CONTROL DETAILS

Sheet No.
C4.03

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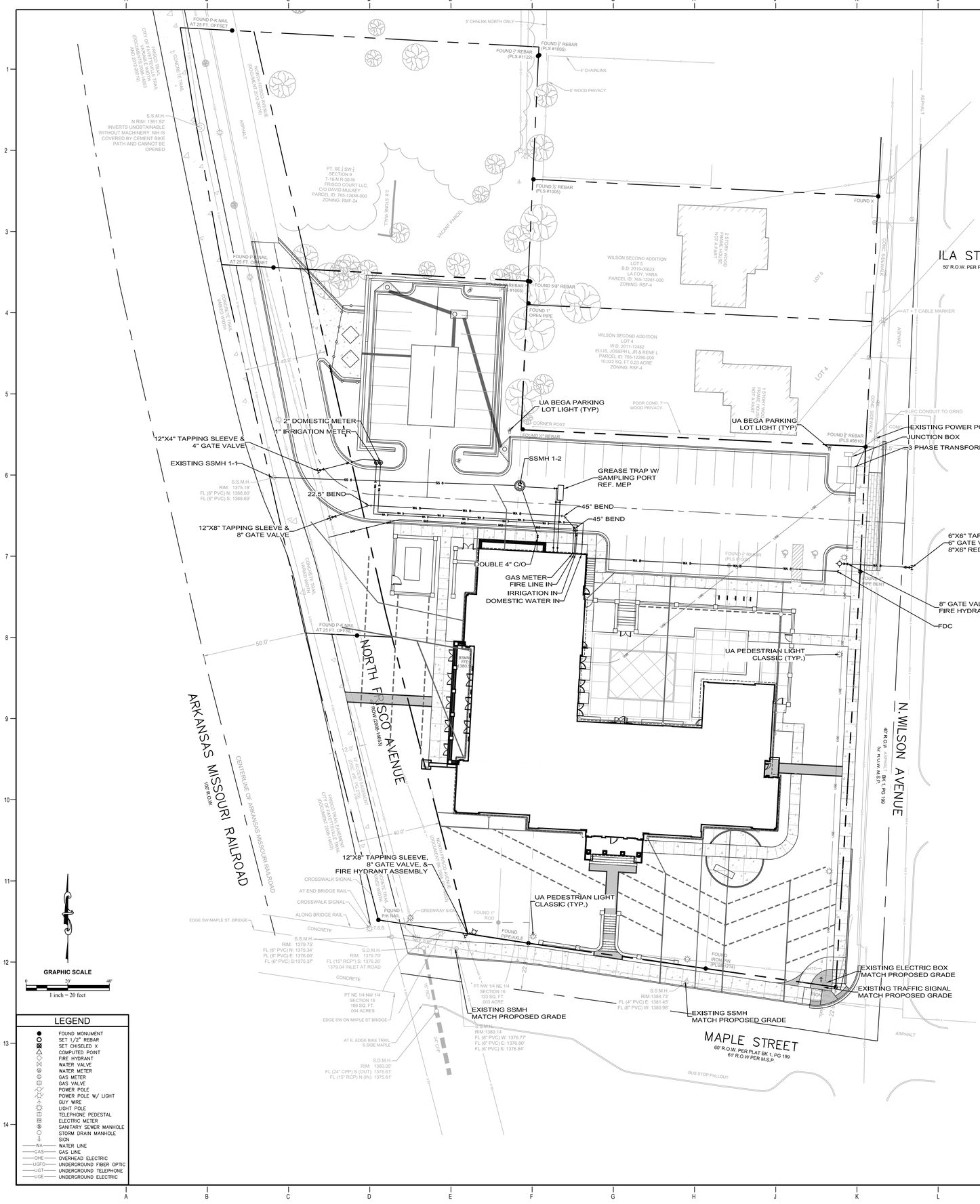

LEGEND

- FOUND MONUMENT
- SET 1/2" REBAR
- SET CHISELED X
- COMPUTED POINT
- FIRE HYDRANT
- WATER VALVE
- WATER METER
- GAS METER
- GAS VALVE
- POWER POLE
- POWER POLE W/ LIGHT
- GUY WIRE
- LIGHT POLE
- TELEPHONE PEDESTAL
- ELECTRIC METER
- SANITARY SEWER MANHOLE
- STORM DRAIN MANHOLE
- SIGN
- WA — WATER LINE
- GAS — GAS LINE
- OHE — OVERHEAD ELECTRIC
- UGFO — UNDERGROUND FIBER OPTIC
- UGT — UNDERGROUND TELEPHONE
- UGE — UNDERGROUND ELECTRIC

GENERAL NOTES:

1. CONTRACTOR SHALL NOTIFY PROJECT ENGINEER PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR APPLICATION, PAYMENT, & ACQUISITION OF ALL PERMITS NECESSARY FOR THE CONSTRUCTION ACTIVITIES RELATED TO THIS PROJECT.
3. CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES IN ACCORDANCE WITH THE ARKANSAS UNDERGROUND FACILITIES DAMAGE PREVENTION ACT. THIS LAW REQUIRES THAT THE CONTRACTOR MAKE A TELEPHONE CALL TO THE ARKANSAS ONE-CALL SYSTEM AT 1-800-482-6998 AT LEAST FOUR WORKING DAYS PRIOR TO EXCAVATION TO ENSURE THAT ANY EXISTING UTILITIES CAN BE LOCATED.
4. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN HEREON ARE BASED ON ABOVEGROUND STRUCTURES, MARKINGS & RECORD DOCUMENTS. LOCATIONS OF UNDERGROUND UTILITIES MAY VARY SIGNIFICANTLY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. THE CONTRACTOR SHALL MARK LOCATE & MARK UTILITY LINES BEFORE CONSTRUCTION & UNCOVER AS NEEDED.
5. EXISTING UTILITIES TO REMAIN SHALL BE PROTECTED. CONTRACTOR SHALL BEAR ALL RESPONSIBILITY & COST OF REPAIR OR REPLACEMENT OF EXISTING UTILITIES, DAMAGED OR INTERRUPTED AS A RESULT OF THIS CONSTRUCTION PROJECT.
6. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER & THE OWNER OF ANY DAMAGED OR INTERRUPTED UTILITIES IMMEDIATELY.
7. CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL EXISTING SITE CONDITIONS DISTURBED BY CONSTRUCTION ACTIVITIES BACK TO EXISTING OR BETTER CONDITION.
8. ALL SEWER LINES & APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF FAYETTEVILLE WATER AND SEWER STANDARD PIPELINE MATERIALS & CONSTRUCTION SPECIFICATIONS & DETAILS, LATEST EDITION.
9. ALL WATER LINES & APPURTENANCES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF FAYETTEVILLE STANDARD PIPELINE MATERIALS & CONSTRUCTION SPECIFICATIONS & DETAILS, LATEST EDITION.
10. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECT & ADJUSTED TO MATCH PROPOSED GRADE AS NEEDED.
11. CONTRACTOR TO CONSTRUCT ALL ACCESS RAMPS & PAVING TO CITY OF FAYETTEVILLE &/OR ADA STANDARDS. VERIFY.
12. TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
13. ELECTRICAL & LIGHTING INFORMATION SHOWN FOR COORDINATION PURPOSES ONLY. SEE MEP SHEETS FOR DETAILS & SPECIFICATIONS.
14. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONSTRUCTION CONFLICTS THAT BECOME APPARENT & REVIEW INSTRUCTIONS &/OR PLAN REVISIONS PRIOR TO MAKING ANY CHANGES.

UTILITY CONSTRUCTION NOTES:

1. CONTRACTOR TO COORDINATE & PROVIDE THE DELIVERY OF OFF-SITE UTILITY MAIN & SERVICE EXTENSIONS, PRIVATE SERVICE LINES, SERVICE CONNECTIONS, ETC. FEES FOR PERMITS, METERS, CONNECTIONS, TESTING, & OTHER RELATED COSTS SHALL BE INCLUDED IN THE CONTRACT PRICE.
2. ALL WORK, MATERIALS, INSTALLATION METHODS, & COORDINATION RELATED TO WATER & SEWER LINES & SERVICES SHALL COMPLY WITH THE CURRENT STANDARD DETAILS & SPECIFICATIONS OF FAYETTEVILLE WASTEWATER UTILITY.
3. CONTRACTOR SHALL NOTIFY LOCAL UTILITIES A MINIMUM OF ONE WEEK PRIOR TO CONSTRUCTION OF ANY NEW MAIN LINE FACILITIES.
4. WATER LINES MUST BE INSTALLED WITH A MINIMUM 10' HORIZONTAL FROM SANITARY SEWER FACILITIES & 18" VERTICAL SEPARATION OVER SEWER LINE CROSSINGS, OR PROVIDE ENCASEMENT FOR WATER LINES.
5. A UTILITY REPRESENTATIVE MUST BE PRESENT WHEN CONTRACTOR TIES INTO AN EXISTING UTILITY. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN PRIOR TO CONNECTION.
8. CONTRACTOR TO COORDINATE INSPECTIONS WITH ENGINEER & LOCAL UTILITY AUTHORITIES, PER UTILITY REQUIREMENTS. ALL ITEMS NOT COORDINATED FOR INSPECTION WILL BE UNCOVERED FOR INSPECTION AT THE CONTRACTORS EXPENSE.
9. ALL THRUST BLOCKING SHALL BE VISUALLY INSPECTED BY THE ENGINEER & A LOCAL UTILITY REPRESENTATIVE.
12. ALL PRESSURE TESTING SHALL BE OBSERVED BY THE ENGINEER & LOCAL UTILITY REPRESENTATIVE, AS REQUIRED BY THE ARK. DEPT. OF HEALTH & LOCAL UTILITY AUTHORITY.
13. WATER LINE PRESSURE TESTING & BACTERIOLOGICAL SAMPLING SHALL BE CONDUCTED UP TO THE BACKFLOW DEVICE, PER THE ARKANSAS DEPT. OF HEALTH & LOCAL UTILITY REQUIREMENTS.
16. SEWER LINE PRESSURE TESTING SHALL BE CONDUCTED PER THE ARKANSAS DEPT. OF HEALTH & LOCAL UTILITY REQUIREMENTS.
17. ALL EXISTING UTILITIES NOT TO REMAIN IN SERVICE ARE TO BE ABANDONED IN PLACE & FILLED WITH FLOWABLE FILL, OR, REMOVED & TRENCHES BACKFILLED WITH COMPACTED STRUCTURAL FILL.
18. ALL CONDUITS TO HAVE PULL CHORDS INSTALLED WITH STEEL POST TIE OFFS AT EACH END.
19. CONTRACTOR TO PROVIDE AS-BUILT DRAWINGS WITH STATE PLAN COORDINATES LOCATIONS OF ALL UTILITY LINES, CONNECTIONS, FITTINGS, VALVES, BENDS, ANCHOR COLLARS, METERS, MANHOLES, ETC., AS REQUIRED TO MEET LOCAL UTILITY REQUIREMENTS. ANY ITEMS WITHOUT REQUIRED LOCATION COORDINATES MUST BE UNCOVERED & LOCATED AT THE CONTRACTORS EXPENSE.
20. CLEANOUTS IN CONCRETE OR ASPHALT ARE TO BE ZURN Z1400 OR APPROVED EQUAL.
21. CONTRACTOR SHALL PROVIDE A WARRANTY FOR SEWER & WATER IMPROVEMENTS IN COMPLIANCE WITH LOCAL UTILITY REQUIREMENTS.
22. ALL EASEMENTS REQUIRED FOR UTILITIES WILL BE COMPLETED AFTER UTILITIES ARE CONSTRUCTED & AS-BUILT DRAWINGS ARE COMPLETE.

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STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 18323 CHASE A. HENRY, LHS

18 December 2025

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

UTILITY PLAN

Sheet No.

C5.01

Project Name
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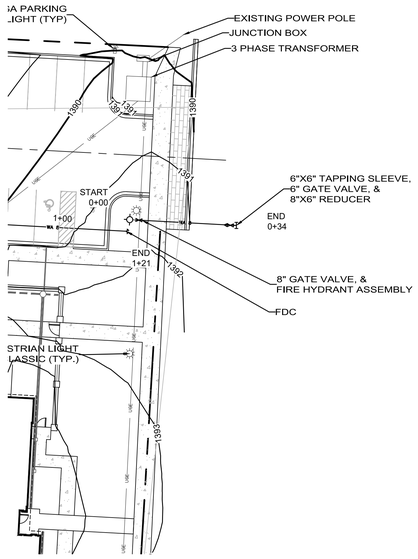
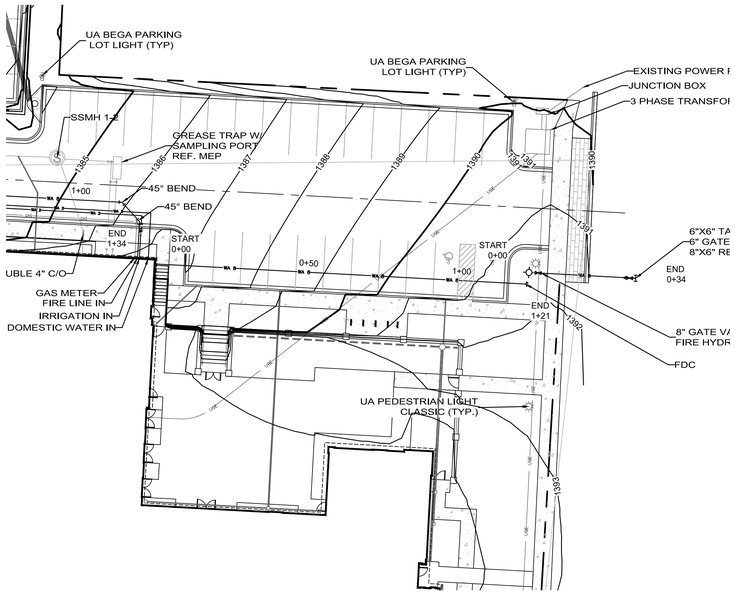
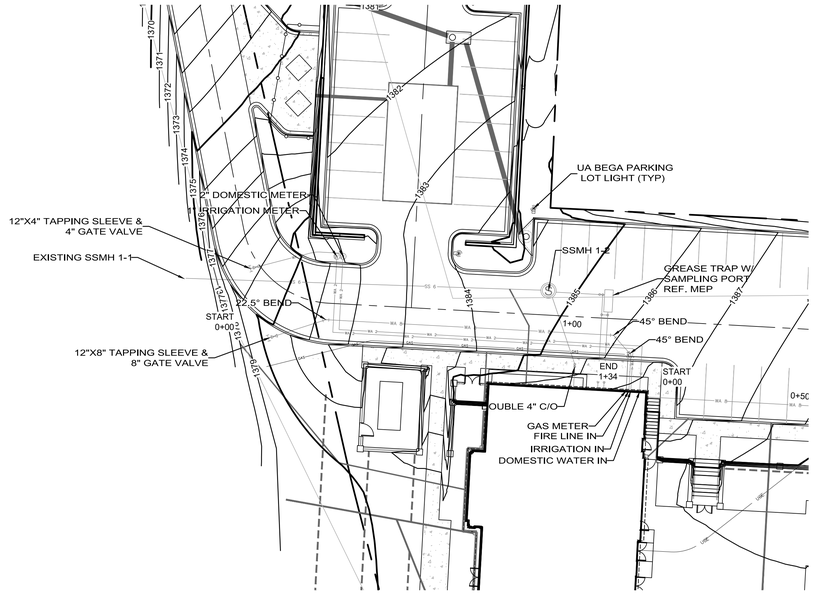
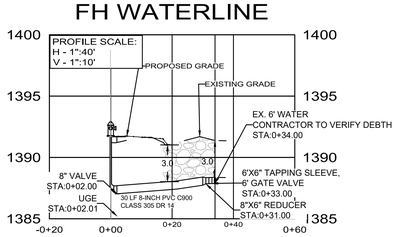




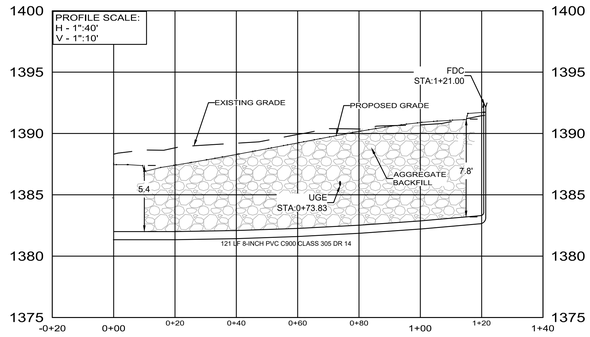




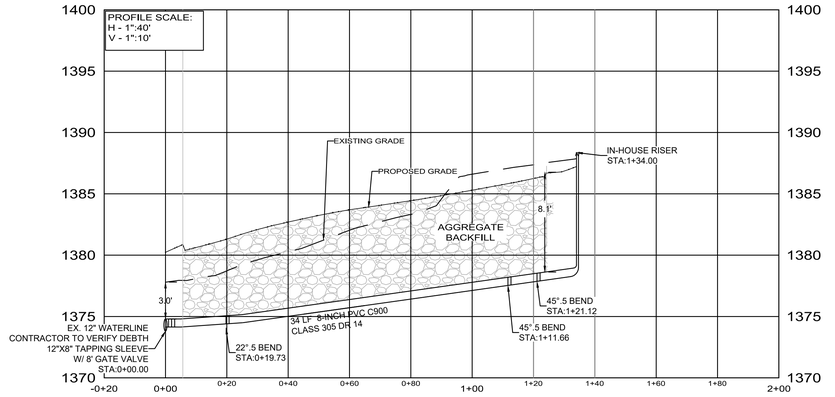
FH WATERLINE



FDC LINE



FIRE LINE



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REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS
18 December 2025

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WATER P&P
Sheet No.
C5.02

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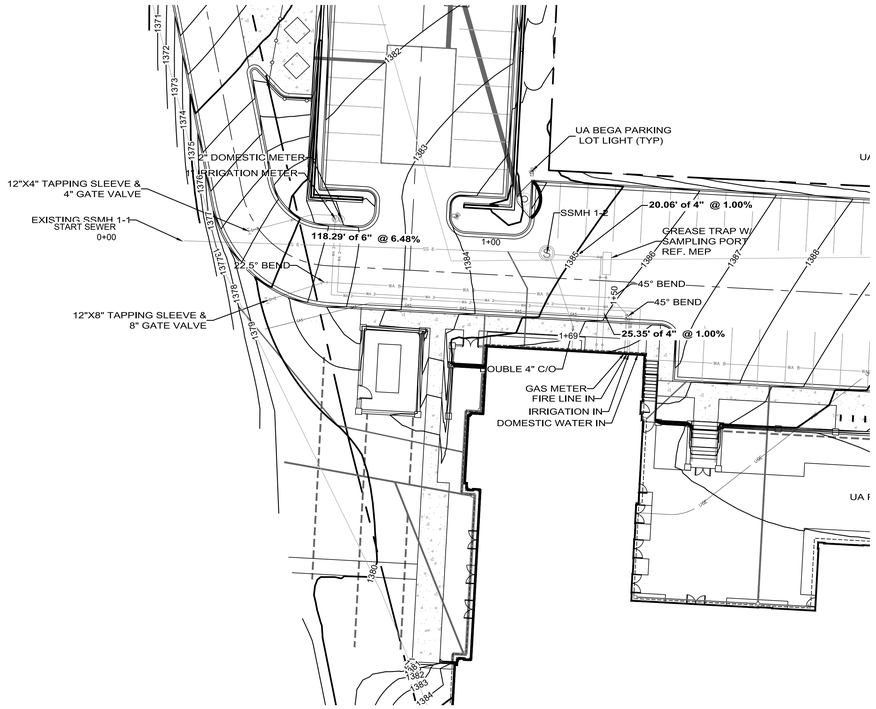
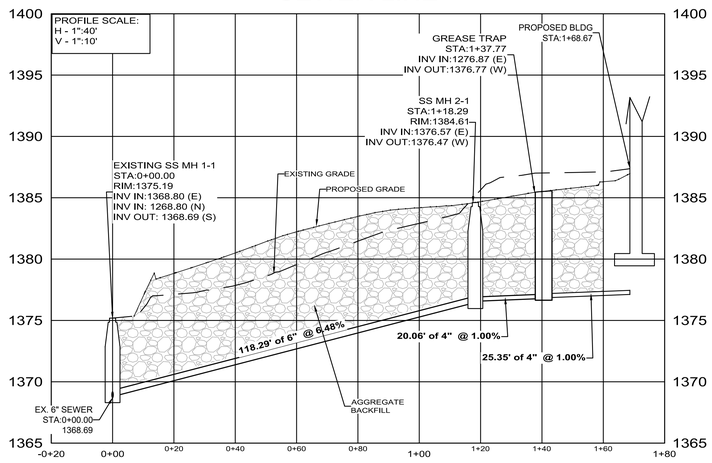


GRAPHIC SCALE

0 20' 40'

1 inch = 20 feet

SEWER LINE



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SEWER P&P

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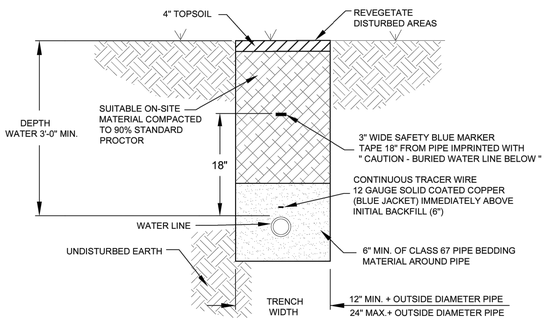


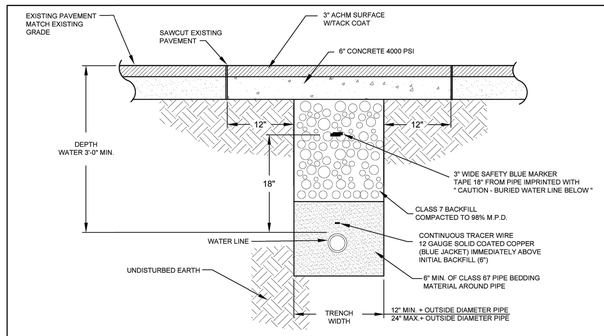
NOTES:

1. ALL VALVES, BENDS, ETC. SHALL BE RESTRAINED.
2. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING WATER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE WATER SYSTEM.
3. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
4. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
5. MAXIMUM PIPE COVER SHALL BE 60" UNDER NORMAL CONDITIONS. COVER GREATER THAN 60" MAY BE ALLOWED FOR SHORT DISTANCES WHERE REQUIRED BY FIELD CONDITIONS AND APPROVED BY THE CITY OF FAYETTEVILLE. NO HYDRANT SHALL BE ALLOWED WHERE LINES ARE GREATER THAN 60" DEEP.
6. PIPE BEDDING SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/4".

WATER TRENCH

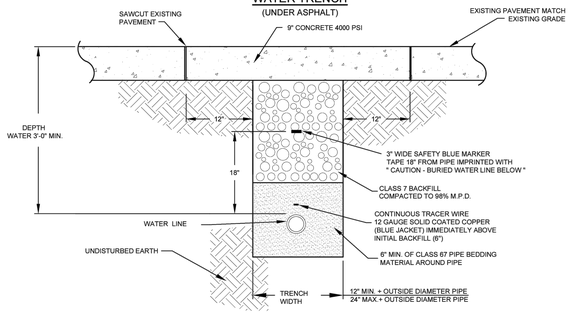
(NON-PAVED AREA)

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: WATER DETAILS	DATE: MAY 23, 2022
		DESCRIPTION: WATER TRENCH (NON-PAVED AREA)	SHEET: W1



WATER TRENCH

(UNDER ASPHALT)



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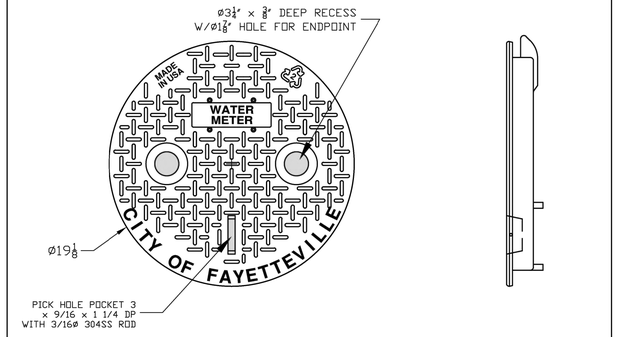
WATER TRENCH

(UNDER CONCRETE)

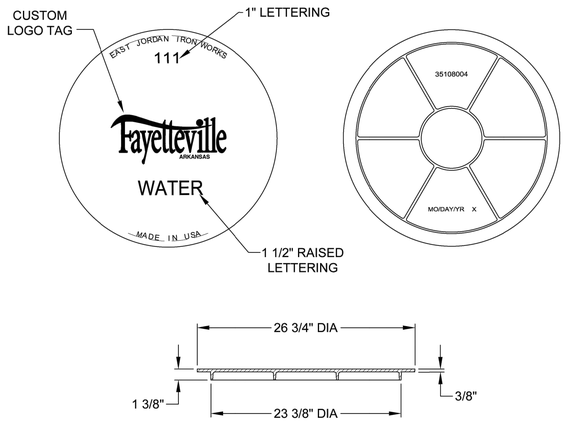
CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: WATER DETAILS	DATE: May 23, 2022
		DESCRIPTION: WATER TRENCH (UNDER PAVEMENT)	SHEET: W2



NOTES

1) DIM'S ± 1/8" U.N.O.
2) LID MATERIAL: HDPE
3) DFW MODEL #: DFW1820LP-AF1EF2 SMALL FAY-LID

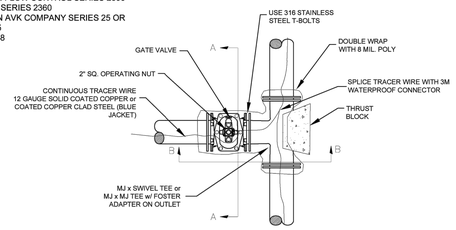
CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: WATER DETAILS	DATE: Apr. 19, 2022
		DESCRIPTION: 18" WATER METER LID	SHEET: W4a



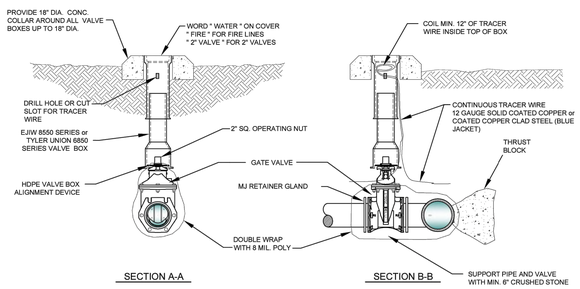
CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: WATER DETAILS	DATE: Apr. 28, 2020
		DESCRIPTION: 24" WATER METER LID	SHEET: W4b

PERMITTED VALVES

1. AMERICAN FLOW CONTROL SERIES 2500
2. MUELLER SERIES 2360
3. AMERICAN AVK COMPANY SERIES 25 OR SERIES 45
4. CLOW 2638



PLAN



NOTES:

1. ALL VALVES SHALL BE SECURELY ANCHORED TO THE TEE.
2. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.
3. IF DEPTH OF BURY EXCEEDS 4 FT., A VALVE STEM EXTENSION SHALL BE REQUIRED. THE VALVE STEM EXTENSION NUT SHALL BE WITHIN 24-INCHES TO 12-INCHES OF THE FINISHED SURFACE.

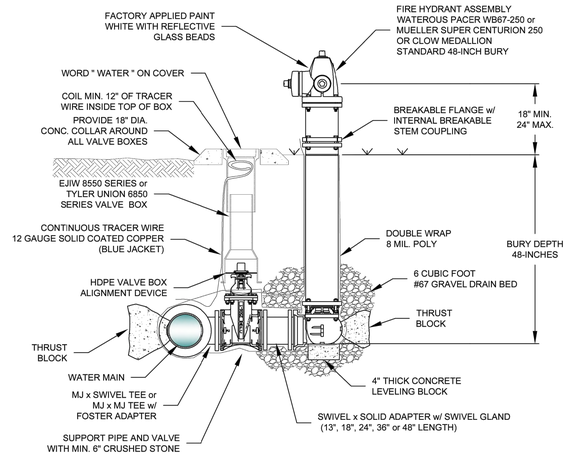
GATE VALVE DETAIL

2" - 8"

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: WATER DETAILS	DATE: APR 19, 2022
		DESCRIPTION: GATE VALVE	SHEET: W5

NOTES:

1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. BURY LINE OF HYDRANT SHALL BE NO LESS THAN THE PROPOSED FINISHED ELEVATION OF BACK OF CURB, OR SIDEWALK, WHICHEVER IS GREATER.
4. EXTENSIONS SHALL BE WATEROUS K562 OR MUELLER A-320 WITH NO MORE THAN ONE EXTENSION PER HYDRANT.
5. IF SIDEWALK IS PRESENT, HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
6. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
7. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.
8. PIPE BEDDING SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/4".



FIRE HYDRANT & VALVE CONNECTION

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: WATER DETAILS	DATE: MAY 24, 2022
		DESCRIPTION: FIRE HYDRANT AND VALVE CONNECTION	SHEET: W9

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Seal

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 18323 CHASE A. HENRICHS
18 December 2025

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12-18-2025
Title

WATER DETAILS
Sheet No.
C5.04

Project Name:
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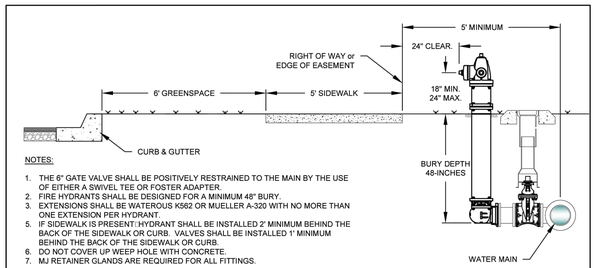
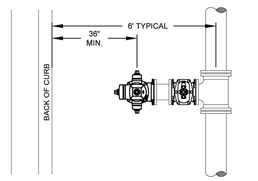
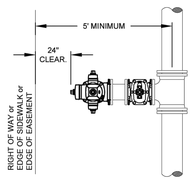


NOTES:

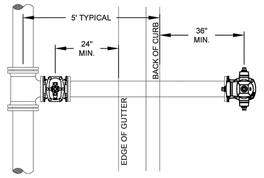
1. THE 6" GATE VALVE SHALL BE POSITIVELY RESTRAINED TO THE MAIN BY THE USE OF EITHER A SWIVEL TEE OR FOSTER ADAPTER.
2. FIRE HYDRANTS SHALL BE DESIGNED FOR A MINIMUM 48" BURY.
3. EXTENSIONS SHALL BE WATEROUS K562 OR MUELLER A-320 WITH NO MORE THAN ONE EXTENSION PER HYDRANT.
5. IF SIDEWALK IS PRESENT: HYDRANT SHALL BE INSTALLED 2' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB. VALVES SHALL BE INSTALLED 1' MINIMUM BEHIND THE BACK OF THE SIDEWALK OR CURB.
6. DO NOT COVER UP WEEP HOLE WITH CONCRETE.
7. MJ RETAINER GLANDS ARE REQUIRED FOR ALL FITTINGS.



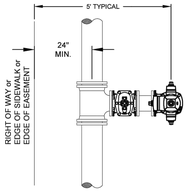
WATER LINE BEHIND CURB
INSIDE ROW



WATER LINE IN EASEMENT
OUTSIDE ROW

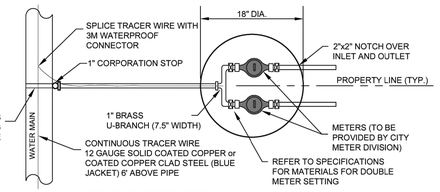


WATER LINE IN STREET
INSIDE ROW

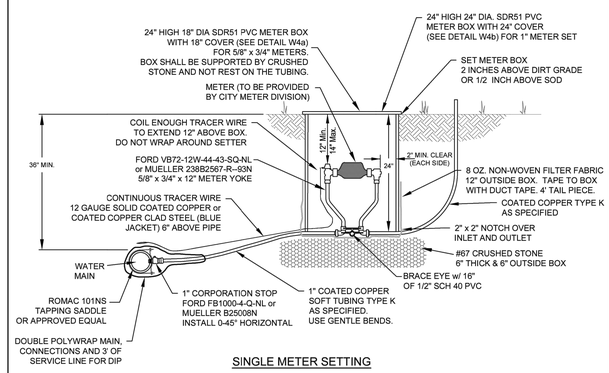


WATER LINE IN EASEMENT
OUTSIDE ROW

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *WATER DETAILS*	DATE: MAY 25, 2017
		DESCRIPTION: FIRE HYDRANT PLACEMENT	SHEET: W10



DOUBLE METER SETTING



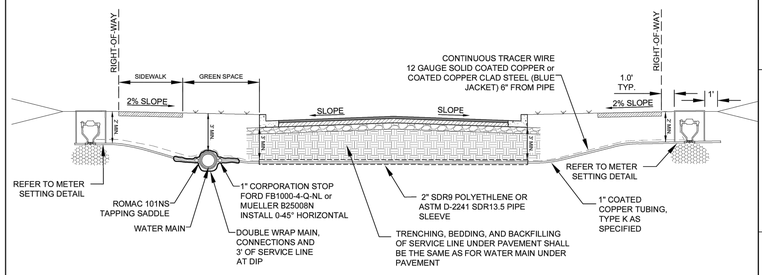
SINGLE METER SETTING

NOTES:
1. CONNECTIONS TO DUCTILE IRON PIPE (DIP) MAIN LINES SHALL BE DOUBLE POLY WRAPPED (POLYETHYLENE ENCASEMENT) A MINIMUM OF THREE FEET BEYOND THE DIP MAIN PIPE ONTO THE COATED COPPER SERVICE LINE.
2. COATED COPPER PIPE UNDER ROADWAYS SHALL BE ENCASED IN SDR9 POLYETHYLENE OR ASTM D-2241 SDR-13.5 PIPE SLEEVE.
3. POLYETHLENE PRESSURE PIPE AND TUBING (PE OR HDPE OR VARIATIONS) SHALL NOT BE USED FOR WATER SERVICE MATERIALS.

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *WATER DETAILS*	DATE: April 19, 2022
		DESCRIPTION: METER SETTINGS	SHEET: W11

NOTES:

1. ALL WATER & SANITARY SEWER TRENCHES WHICH ARE UNDER THE PROPOSED STREETS MUST BE BACKFILLED AS SHOWN ON THE TRENCHING, BEDDING, AND BACKFILL STANDARD DETAIL.
2. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM OF HORIZONTAL SEPARATION DISTANCE OF 10 FEET AT ALL TIMES.
3. WATER AND SEWER LINES SHALL MAINTAIN A MINIMUM VERTICAL SEPARATION OF 18 INCHES WITH THE WATER LINE CROSSING ABOVE THE SEWER LINE.
4. METER CROSSING A ROAD FOR IRRIGATION REQUIRES A 2" TAP AND A 4" OR LARGER SLEEVE. THE 2" TAP REQUIRES A VALVE BOX AT THE MAIN TAP.
5. ALL CORP. STOPS SHALL BE INSTALLED AT 0-45° ANGLE FROM HORIZONTAL.
6. A MINIMUM OF 24-INCHES OF SEPARATION IS REQUIRED BETWEEN SERVICE TAPS.
7. ALL METER BOXES SHALL BE INSTALLED ON THE CUSTOMER SIDE OF THE WATER MAIN.
8. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
9. CONNECTIONS TO DUCTILE IRON PIPE (DIP) MAIN LINES SHALL BE DOUBLE POLY WRAPPED (POLYETHYLENE ENCASEMENT) A MINIMUM OF THREE FEET BEYOND THE DIP MAIN PIPE ONTO THE COATED COPPER SERVICE LINE.
10. COATED COPPER PIPE UNDER ROADWAYS SHALL BE ENCASED IN SDR9 POLYETHYLENE OR ASTM D-2241 SDR-13.5 PIPE SLEEVE. MINIMUM SLEEVE DIAMETER SHALL BE DOUBLE THE SERVICE LINE DIAMETER.
11. POLYETHLENE PRESSURE PIPE AND TUBING (PE OR HDPE OR VARIATIONS) SHALL NOT BE USED FOR WATER SERVICE MATERIALS.



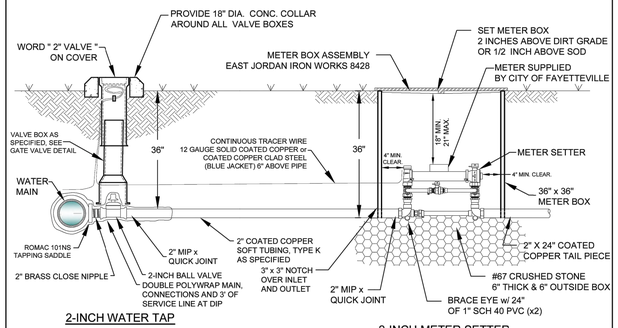
METER SERVICE LINE UNDER PAVEMENT
(WATER MAIN BEHIND CURB)

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *WATER DETAILS*	DATE: APRIL 16, 2022
		DESCRIPTION: METER SERVICE LINE UNDER PAVEMENT (WATER MAIN BEHIND CURB)	SHEET: W12a

NOTE: DO NOT INSTALL THE METER SETTER IN LINE UNTIL THE SETTER IS BROUGHT TO THE FAYETTEVILLE WATER AND SEWER OPERATION CENTER, 2435 S. INDUSTRIAL DR. TO HAVE THE PROPER SIZE AND TYPE OF WATER METER INSTALLED IN THE SETTER AND TESTED FOR LEAKS. ANY QUESTIONS ABOUT THIS INSTALLATION, CONTACT METER OPERATIONS AT 479-684-4733 OR 479-575-8389, OR METER MAINTENANCE AT 479-575-8383.

NOTES:

1. COORDINATE INSTALLATION AND CONFIGURATION OF ALL 1-1/2" AND LARGER METER SETTINGS WITH THE CITY OF FAYETTEVILLE METER OPERATIONS DIVISION.
2. ALL METER BOXES SHALL BE INSTALLED IN NON-PAVED AREAS. ANY METER BOX THAT GETS PLACED IN A PAVED AREA SHALL BE RELOCATED AT THE OWNER'S EXPENSE BEFORE A WATER METER WILL BE INSTALLED.
3. SUPPORT METER INSTALLATION WITH 1"x24" SCH40 PVC THROUGH EACH BRACE EYE.
4. CONNECTIONS TO DUCTILE IRON PIPE (DIP) MAIN LINES SHALL BE DOUBLE POLY WRAPPED (POLYETHYLENE ENCASEMENT) A MINIMUM OF THREE FEET BEYOND THE DIP MAIN PIPE ONTO THE COATED COPPER SERVICE LINE.
5. 2" COATED COPPER PIPE UNDER ROADWAYS SHALL BE ENCASED IN 4" DIAMETER SDR9 POLYETHYLENE OR ASTM D-2241 SDR-13.5 PIPE SLEEVE.
6. POLYETHYLENE PRESSURE PIPE AND TUBING (PE OR HDPE OR VARIATIONS) SHALL NOT BE USED FOR WATER SERVICE MATERIALS.



2-INCH WATER TAP

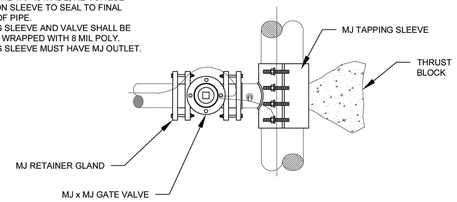
2-INCH METER SETTER

1-1/2" AND 2" WATER METER

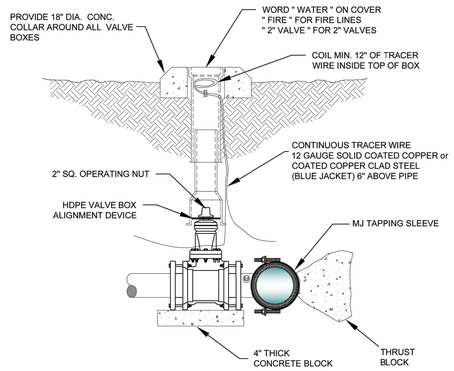
CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *WATER DETAILS*	DATE: Apr. 28, 2022
		DESCRIPTION: 1-1/2" AND 2" WATER METER	SHEET: W13

NOTES:

1. TAPPING SLEEVE SHALL BE FORD FAST, ROMAC, JCM 439, OR SMITH-BLAIRE.
2. AFTER THE TAP IS MADE, RE-TORQUE BOLTS ON SLEEVE TO SEAL TO FINAL SHAPE OF PIPE.
3. TAPPING SLEEVE AND VALVE SHALL BE DOUBLE WRAPPED WITH 8 MIL POLY.
4. TAPPING SLEEVE MUST HAVE MJ OUTLET.

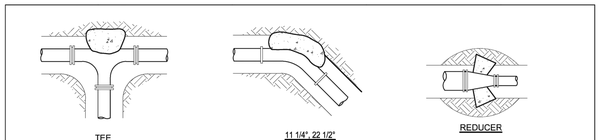


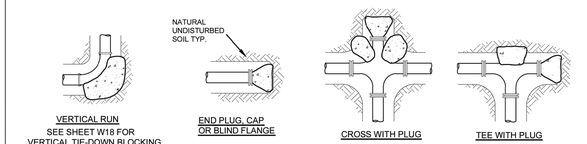
PLAN VIEW



PROFILE VIEW

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *WATER DETAILS*	DATE: APR. 28, 2022
		DESCRIPTION: TAPPING SLEEVE AND VALVE	SHEET: W14





THRUST BLOCK SCHEDULE
(2000 PSF SOIL, 200 PSI WATER PRESSURE, 100 PSI WATER HAMMER)

BEARING AREA OF THRUST BLOCKS IN SQ. FT. (HORIZONTAL BENDS)						VOLUME OF THRUST BLOCK IN CU. FEET (VERTICAL BENDS)							
FITTING SIZE	PLUG TEE OR CAP	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	FITTING SIZE	BEND ANGLE 90° *	45°	22 1/2°	11 1/4°	ROD DIAM	EMBED. MENT
2, 3, & 4	1.9	2.7	1.4	0.7	0.4	2, 3, & 4	35.5	19.2	9.8	4.9	.50"	30"
6	5.6	7.9	4.3	2.2	1.1	6	105.8	57.2	29.2	14.7	.75"	30"
8	9.6	13.6	7.4	3.8	1.9	8	181.9	98.5	50.2	25.2	.75"	30"
12	20.5	29.0	15.7	8.0	4.0	12	387.1	209.5	106.8	53.7	1.0"	30"
16	35.7	50.4	27.3	13.9	7.0	16	672.6	364.0	185.6	93.2	1.0"	38"
18	44.8	63.4	34.3	17.5	18.8	18	844.7	457.2	233.1	117.1	1.0"	38"
24	78.4	110.9	60.0	30.6	15.4	24	1478.7	800.3	408.0	205.0	1.5"	38"

* 90 DEGREE BENDS SHALL ONLY BE USED ON A BY-EXCEPTION BASIS, AND MUST EACH BE SPECIFICALLY APPROVED BY CITY.

THRUST BLOCK NOTES:

1. CONCRETE FOR THRUST BLOCKS - CLASS 1 CONCRETE SHALL DEVELOP NOT LESS THAN 4000 PSI COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL. SEE MSS TABLE 11-2 FOR CONCRETE REQUIREMENTS.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. DOUBLE WRAP PIPE JOINTS IN 8 MIL "POLYETHLENE" BEFORE PLACING CONCRETE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 200 psi. PLUS 100 psi. WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. MJ RESTRAINTS ARE REQUIRED FOR ALL FITTINGS.
6. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
7. ALL BOLTS FOR FITTINGS SHALL BE 316 STAINLESS STEEL.
8. ALL DUCTILE IRON FITTINGS SHALL BE FUSION-BONDED EPOXY COATED INSIDE AND OUTSIDE IN ACCORDANCE WITH ANSI/AWWA C116/A21.16.
9. UNIT WEIGHT OF CONCRETE FOR VERTICAL THRUST BLOCKS IS 150 LBS/CU. FT.

THRUST BLOCKING

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *WATER DETAILS*	DATE: JUN. 1, 2021
		DESCRIPTION: THRUST BLOCKING	SHEET: W17

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Seal

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS
18 December 2025

No.	Issue	Date

Job No.
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Date
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Title
WATER DETAILS
Sheet No.
C5.05

Project Name
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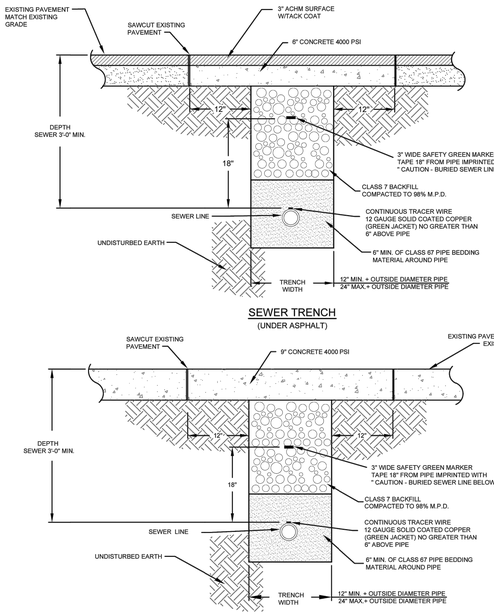


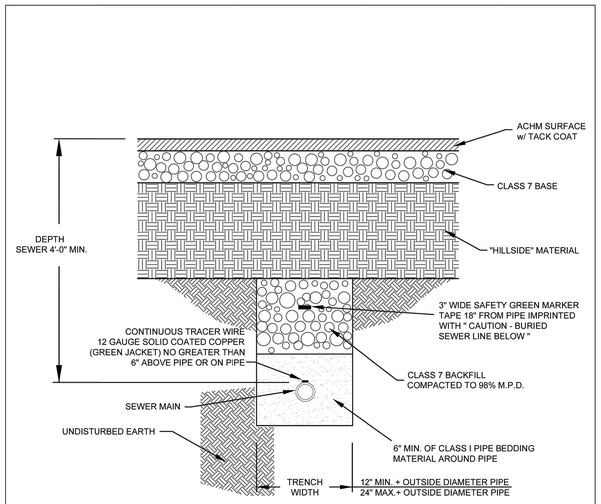
SEWER TRENCH
(UNDER ASPHALT)

SEWER TRENCH
(UNDER CONCRETE)

NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
4. PIPE BEDDING SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/4".

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SEWER DETAILS*	DATE: MAY 23, 2022
		DESCRIPTION: SEWER TRENCH (UNDER PAVEMENT)	SHEET: S2



SEWER MAIN INSTALLATION
PRIOR TO ROADWAY CONSTRUCTION

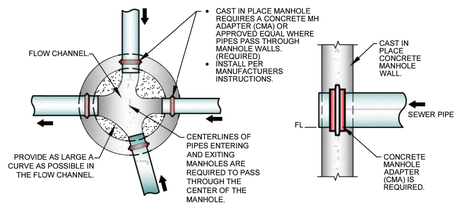
NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO CONNECT WITH ANY PART OF THE EXISTING SEWER SYSTEM THAT WILL REMAIN IN ORDER TO ESTABLISH A SATISFACTORY AND ACCEPTABLE SEWER SYSTEM.
2. CONTRACTOR TO CONSTRUCT ALL TRENCH EXCAVATION IN ACCORDANCE WITH ALL OSHA REGULATIONS (29 CFR CH.XVII, SUBPART B)
3. TRENCH SHALL BE EXCAVATED BELOW GRADE REQUIRED TO PROVIDE A MINIMUM 36" OF PIPE COVER.
4. PIPE BEDDING SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/4".

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SEWER DETAILS*	DATE: MAY 23, 2022
		DESCRIPTION: SEWER MAIN INSTALLATION PRIOR TO ROADWAY CONSTRUCTION	SHEET: S3

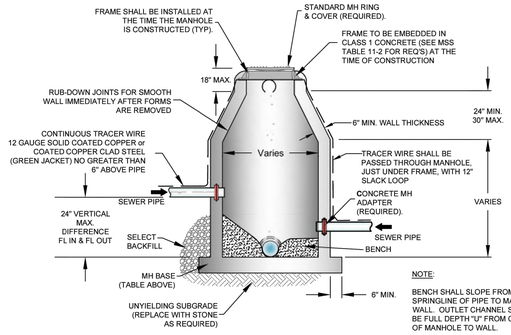
Inside Diameter of Manhole	Minimum Wall Thickness	Base Thickness	Minimum Ring & Cover Size
4' DIA	6"	6"	24" (< or Equal to 24" Pipes)
5' DIA	8"	8"	
6' DIA	8"	12"	36" (> 24" Pipes)

MANHOLE INFORMATION TABLE



MANHOLE
FLOW CHANNEL

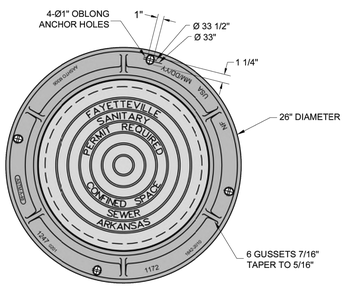
CONCRETE MANHOLE
ADAPTER (CMA)
DETAIL



NOTE:
BENCH SHALL SLOPE FROM SPRINGLINE OF PIPE TO MANHOLE WALL. OUTLET CHANNEL SHALL BE FULL DEPTH "d" FROM CENTER OF MANHOLE TO WALL.

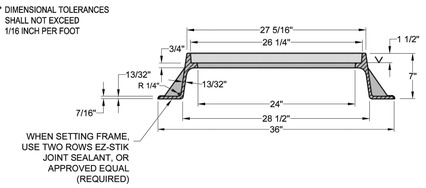
CAST-IN-PLACE MANHOLE

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SEWER DETAILS*	DATE: APR. 20, 2022
		DESCRIPTION: CAST-IN-PLACE MANHOLE	SHEET: S4



1. MINIMUM WEIGHT OF RING: 100 POUNDS
2. MINIMUM WEIGHT OF COVER: 110 POUNDS
3. COVERS ARE FURNISHED WITH TWO CLOSED PICK SLOTS.
4. CASTINGS SHALL BE "MADE IN USA"

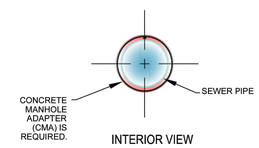
* DIMENSIONAL TOLERANCES SHALL NOT EXCEED 1/16 INCH PER FOOT



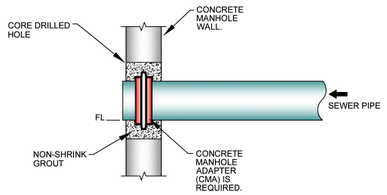
APPROVED MODEL #'S
NEENAH/DEETER - # 1247 FRAME
NEENAH/DEETER - # DF-1156 COVER
EAST JORDAN - # 1045Z FRAME
EAST JORDAN - #1040A COVER

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SEWER DETAILS*	DATE: Jan. 05, 2018
		DESCRIPTION: MANHOLE FRAME AND COVER	SHEET: S6

THE INSTALLATION SHALL BE DYE TESTED FOR ACCEPTANCE.



INTERIOR VIEW

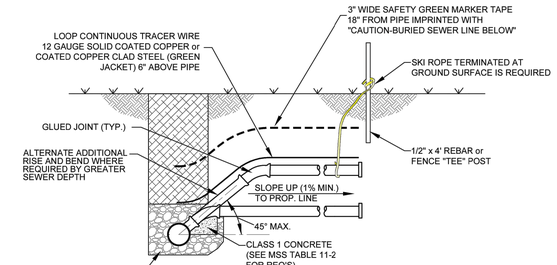


MANHOLE CORING DETAILS

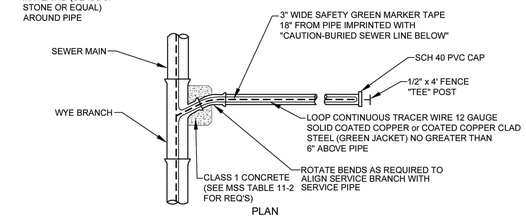
CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SEWER DETAILS*	DATE: MAY 23, 2017
		DESCRIPTION: MANHOLE CORING	SHEET: S11

NOTES:

1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'-0"
2. PLACE CLASS 1 CONCRETE UNDER EACH WYE BRANCH TO PREVENT CRACKING OR TWISTING UNDER EARTH LOADS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. BURY A 1/2" x 4' STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND BACKFILL TO FINISHED GRADE OF PROPERTY.
5. 4" DUCTILE IRON PIPE, LINED FOR SANITARY SEWER AND 4" DUCTILE IRON M.J. FITTINGS, LINED FOR SANITARY SEWER, SHALL BE INSTALLED FOR SERVICES BURIED AT DEPTHS OF 14 FEET AND GREATER.
6. PIPE BEDDING SHALL HAVE A MAXIMUM PARTICLE SIZE OF 3/4".



PROFILE



PLAN

SEWER SERVICE LATERAL

CITY OF FAYETTEVILLE ARKANSAS	ENGINEERING DIVISION 113 W. MOUNTAIN STREET PHONE: (479) 575-8206 FAX NO: (479) 575-8202	TITLE: *SEWER DETAILS*	DATE: MAY 23, 2022
		DESCRIPTION: SEWER SERVICE LATERAL	SHEET: S15

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS
18 December 2025

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12-18-2025
Title
SEWER DETAILS
Sheet No.
C5.06

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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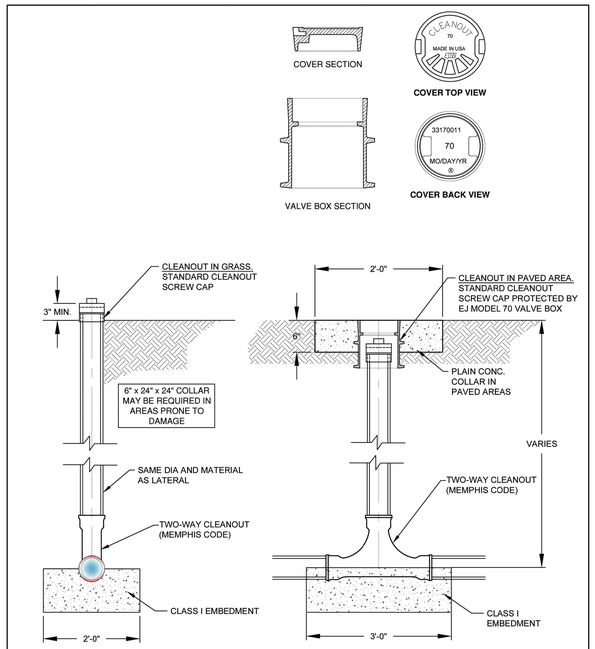
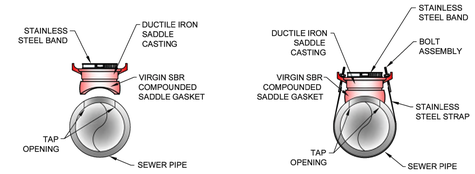


TYPICAL CLEANOUT

CITY OF FAYETTEVILLE ARKANSAS

ENGINEERING DIVISION
113 W. MOUNTAIN STREET
PHONE: (479) 575-8206 FAX NO: (479) 575-8202

TITLE: ***SEWER DETAILS***
DESCRIPTION: **SEWER SERVICE CLEANOUT**
DATE: APR. 20, 2022
SHEET: **S16**



SEWER SERVICE SADDLE

CITY OF FAYETTEVILLE ARKANSAS

ENGINEERING DIVISION
113 W. MOUNTAIN STREET
PHONE: (479) 575-8206 FAX NO: (479) 575-8202

TITLE: ***SEWER DETAILS***
DESCRIPTION: **SEWER SERVICE SADDLE**
DATE: MAY. 25, 2017
SHEET: **S17**

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REGISTERED PROFESSIONAL ENGINEER
No. 18323
CHASE A. HENRICHS
18 December 2025

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12-18-2025
Title

SEWER DETAILS

Sheet No.

C5.07

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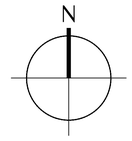

Material Legend

- Asphalt
- Brick Knee wall w/ Brick Cap & Wood Fencing
- Brick Pier w/ Limestone Cap
- Brick Wall w/ Brick Cap
- Concrete
- Formed Concrete Step
- Segmental Wall
- Stone Tread w/ Brick Riser
- Brick Walk w/ Brick Border
- Color Integral Concrete
- UA Asphalt Pavers

0 5 10 20 40 60 80

SCALE: 1" = 20'-0"

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Job No. UAFAPH-21.01

Date 12.18.2025

Title

SITE MATERIALS PLAN

Sheet No.

L1.00



LAYOUT NOTES

1. THE SITE LAYOUT IS BASED ON CENTERLINES AND CONTROL POINTS AS NOTED. DIMENSIONS NOTED (+/-) ARE FOR FIELD ADJUSTMENTS WHEN NECESSARY. ALL OTHER DIMENSIONS ARE TO BE MAINTAINED. MINOR FIELD ADJUSTMENT MAY BE NECESSARY TO MAINTAIN PROPER LAYOUT OF BUILDING FOOTPRINT.

2. THE CONTRACTOR IS TO CHECK ALL FINISHED GRADES AND DIMENSIONS IN THE FIELD AND REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.

3. THE CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES. TAKE CARE TO PROTECT UTILITIES THAT ARE TO REMAIN. REPAIR ANY DAMAGE ACCORDING TO LOCAL STANDARDS AND AT THE CONTRACTOR'S EXPENSE. COORDINATE ALL CONSTRUCTION WITH THE APPROPRIATE UTILITY COMPANY.

4. THE CONTRACTOR IS TO CONFORM TO ALL CODES AND REGULATIONS AND RECEIVE APPROVAL AND/OR OBTAIN PERMITS FOR ANY CONSTRUCTION AS REQUIRED BY THE GOVERNING JURISDICTIONS OF THE PROJECT.

5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALL THE UTILITIES PROTECTION CENTER AT 811 AND HAVE ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED ON THIS PROJECT FIELD LOCATED BOTH HORIZONTALLY AND VERTICALLY PRIOR TO THE BEGINNING OF CONSTRUCTION ACTIVITIES.

6. THE CONTRACTOR, WHEN SIGNING THE CONTRACT DOCUMENTS, RELIEVES THE OWNER AND DUKE DESIGN GROUP LANDSCAPE ARCHITECTS FROM ANY AND ALL LIABILITY CLAIMS RESULTING FROM THE DAMAGE TO AND/OR INJURY DERIVED FROM AN ENCOUNTER WITH ANY AND ALL EXISTING UTILITIES.

7. INDIVIDUAL CONTRACTORS ARE RESPONSIBLE FOR LOCATING THE PROPERTY SERVICE CONNECTIONS BY DIGGING DOWN TO THEM PRIOR TO SETTING THE BUILDING ELEVATIONS.

8. BEFORE THE LANDSCAPE PROJECT IS STARTED, THE LANDSCAPE ARCHITECT AND GENERAL CONTRACTOR WILL MEET ON THE SITE FOR A DETAILED EXPLANATION OF THE SITE LAYOUT PLAN.

9. SEE CONSTRUCTION DETAILS FOR DIMS. OF SITE ELEMENTS.

10. DO NOT SCALE FROM DRAWING.

11. ALL DIMS. 90 DEGREES UNLESS OTHERWISE INDICATED.

12. TYP.S. - TYPICAL DIMS. ARE TO BE USED UNLESS OTHERWISE INDICATED.

13. ALL TREES LOCATED ARE TO REMAIN. VERIFY TREE LOCATIONS IN FIELD.

14. ALL CONSTRUCTION LAYOUT SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.

15. CONTRACTOR TO HAVE LICENSED SURVEYOR OR ENGINEER TO SET LAYOUT STAKES TO ENSURE PROPOSED LAYOUT DOES NOT ENCROACH ANY SETBACKS OR PROPERTY LINES PRIOR TO CONSTRUCTION.

LEGEND

- POB (point of beginning)
- PROPERTY LINE
- SETBACK LINE
- CENTERLINE
- BASELINE
- R.P. RADIUS POINT

0 5 10 20 40 60 80

SCALE: 1" = 20'-0"

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MICHAEL ALVIN JONES — ARKANSAS — REGISTERED LANDSCAPE ARCHITECT — #499

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

LAYOUT PLAN

Sheet No.

L2.00



GRADING NOTES

1. CONNECT ALL EXISTING DOWNSPOUTS TO THE PROPOSED SYSTEM.

2. NO TREES AND/OR VEGETATION, UNLESS SPECIFICALLY NOTED ON THE TREE PRESERVATION DRAWINGS, SHOULD BE REMOVED OR DISTURBED.

3. TOPSOIL IS TO BE STRIPPED FROM ALL CUT/FILL AREAS AND STOCKPILED ON SITE IN AN AREA REVIEWED BY THE LANDSCAPE ARCHITECT AND OWNER. THE SOIL SHOULD BE TESTED AS PER THE REQUIREMENTS SPECIFIED WITHIN THE SOIL DEPTHS AND TESTING NOTES.

4. ALL GRADED AREAS, INCLUDING SLOPES, ARE TO BE MULCHED AND SODDED AS SOON AS POSSIBLE AFTER GRADING IS COMPLETE.

5. SILT BARRIERS SHALL BE CLEANED OF ACCUMULATED SEDIMENT WHEN FILLED TO APPROXIMATELY 50% WITH RUNOFF SEDIMENT.

6. SILT BARRIERS ARE TO BE REPLACED AS EFFECTIVENESS IS SIGNIFICANTLY REDUCED.

7. THE CONTRACTOR IS TO PROVIDE THE NECESSARY PROTECTION, IN ACCORDANCE WITH THE SPECIFICATIONS FOR PRESERVATION AND PROTECTION OF ALL EXISTING AND PROPOSED TREES.

8. DO NOT OPERATE OR STORE HEAVY EQUIPMENT, OR HANDLE AND/OR STORE CONSTRUCTION DEBRIS OR MATERIALS, WITHIN THE DRIPLINE OF EXISTING OR PROPOSED TREES.

9. PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND NEW PAVING AT ALL TIMES. FIELD ADJUSTMENTS OF FINAL GRADES MAY BE NECESSARY.

10. ALL SUBSURFACE DRAINAGE PIPES SHOULD BE INSTALLED AT A MINIMUM OF 1% SLOPE.

11. THE CONTRACTOR IS TO CONFORM TO ALL CODES AND REGULATIONS AND RECEIVE APPROVAL AND/OR OBTAIN PERMITS FOR ANY CONSTRUCTION AS REQUIRED BY THE GOVERNING JURISDICTIONS OF THE PROJECT.

LEGEND

- SPOT ELEVATION
- TG- TOP OF OBJECT/GRATE
- TW - TOP OF WALL
- BW - BOTTOM OF WALL
- TP - TOP OF PIER
- BP - BOTTOM OF PIER
- TC - TOP OF CURB
- BC - BOTTOM OF CURB
- TS - TOP OF STEPS
- BS - BOTTOM OF STEPS
- DS - DOWNSPOUT

- DRAIN PIPE
- DRAIN PIPE FROM DS
- FRENCH DRAIN (PERF. PVC PIPE)
- SURFACE AREA DRAIN
- CLEAN OUT
- JUNCTION BOX
- SUB-SURFACE DRAINAGE COLLECTION POINT (SEE TREE PIT DETAIL)
- PROPOSED CONTOUR LINE
- EXISTING CONTOUR LINE

0 5 10 20 40 60 80

SCALE: 1" = 20'-0"

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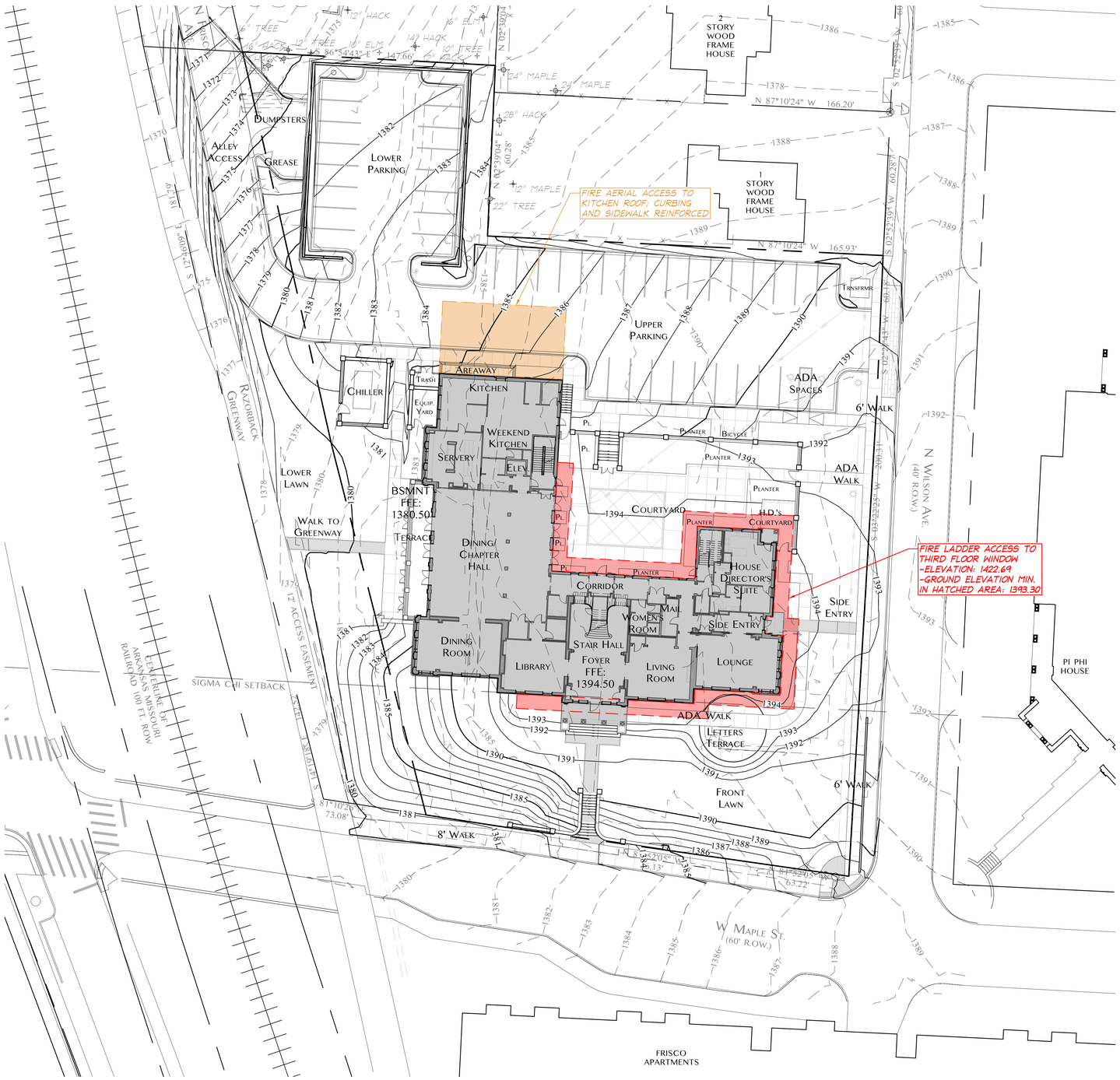
Title

GRADING PLAN

Sheet No.
L3.00



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SCALE: 1" = 20'-0"

0 5 10 20 40 60 80

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MICHAEL ALAN JAMES #19437 REGISTERED PROFESSIONAL ENGINEER STATE OF ARKANSAS

#19437

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

FIRE ACCESS PLAN

Sheet No.

L3.01



LEGEND

SLEEVING LEGEND
INDICATES SLEEVING LOCATIONS FOR LANDSCAPE LIGHTING & IRRIGATION ONLY!!!

- - - - (1) 2" DIA. GREY PVC FOR LIGHTING
(1)1-1/2" DIA. GREY PVC FOR ELECTRICAL

NOTE: EACH LOCATION MARKED ON PLAN INDICATES ONE EACH OF THE ABOVE STATED SLEEVES.

ALL SLEEVES SHOULD HAVE A MIN. DEPTH OF 15" TO TOP OF PIPE FOR ALL SLEEVES. 6" IRRIGATION SLEEVE SHOULD BE HORIZONTALLY SEPARATED FROM THE 4" IRRIGATION SLEEVE AT A MIN. OF 8". (SEE DETAIL THIS SHEET.)

Detail # / Sheet # — DETAIL CALL OUT

Detail # / Sheet # — SECTION CALL OUT

Detail # / Sheet # — ELEVATION CALL OUT

0 5 10 20 40 60 80
SCALE: 1" = 20'-0"

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Job No.
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Date
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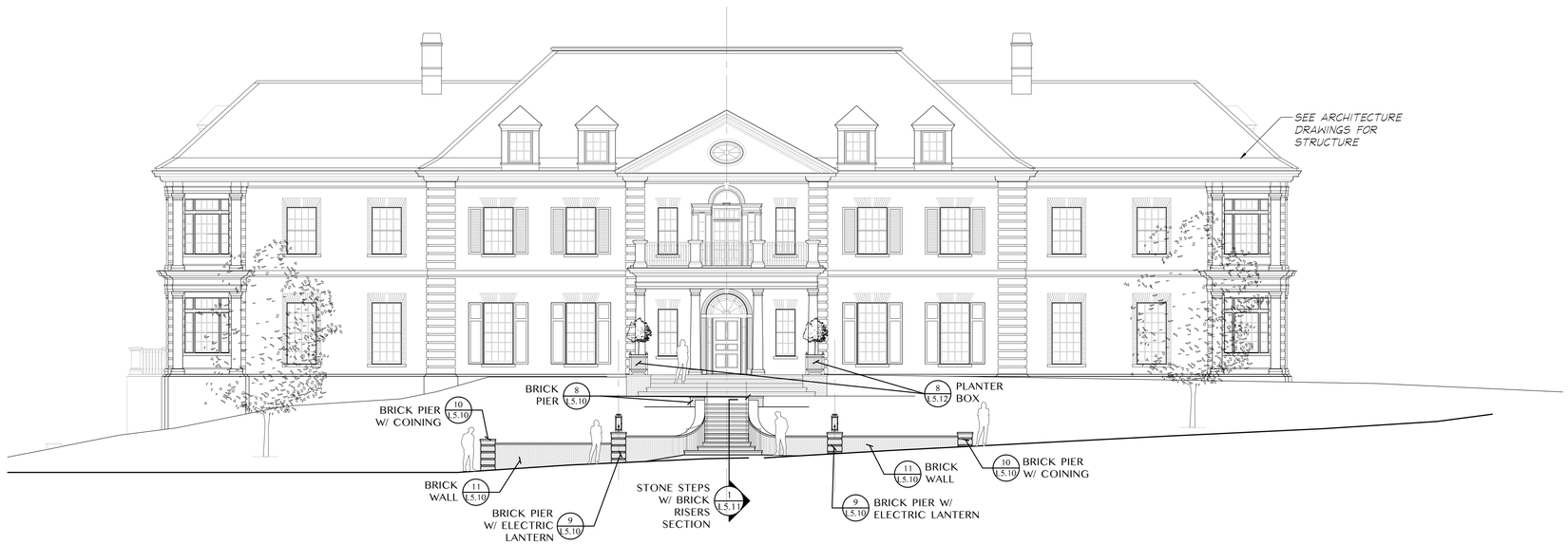
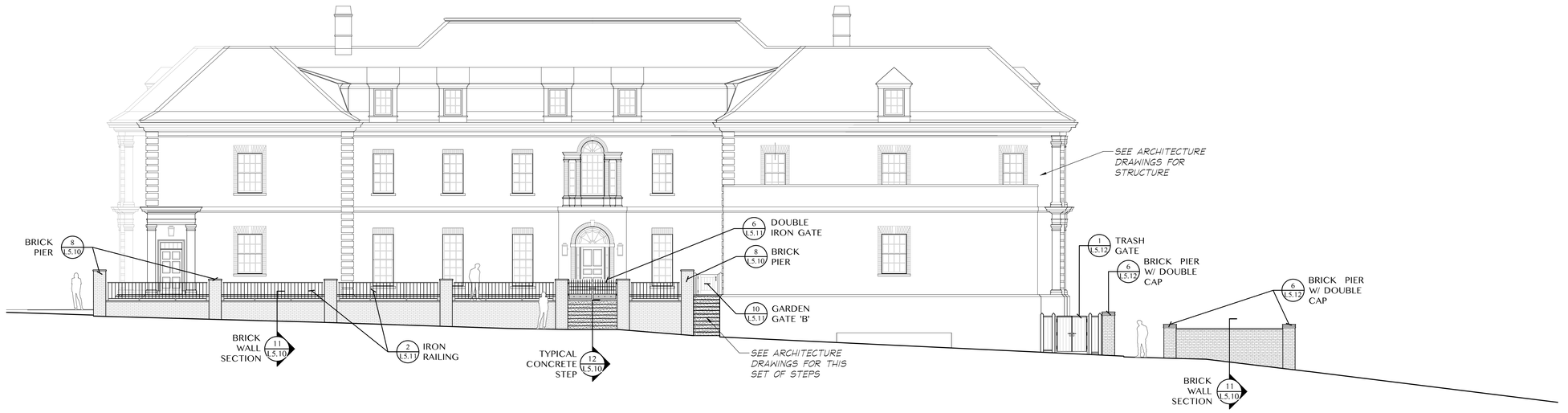
Title

INDEX OF DETAILS & SLEEVING PLAN

Sheet No.
L4.00



1 L5.00 FRONT ELEVATION
SCALE: 1/8"=1'-0"



2 L5.00 REAR ELEVATION
SCALE: 1/8"=1'-0"

0 2 4 8 16 24 32
SCALE: 1/8" = 1'-0"

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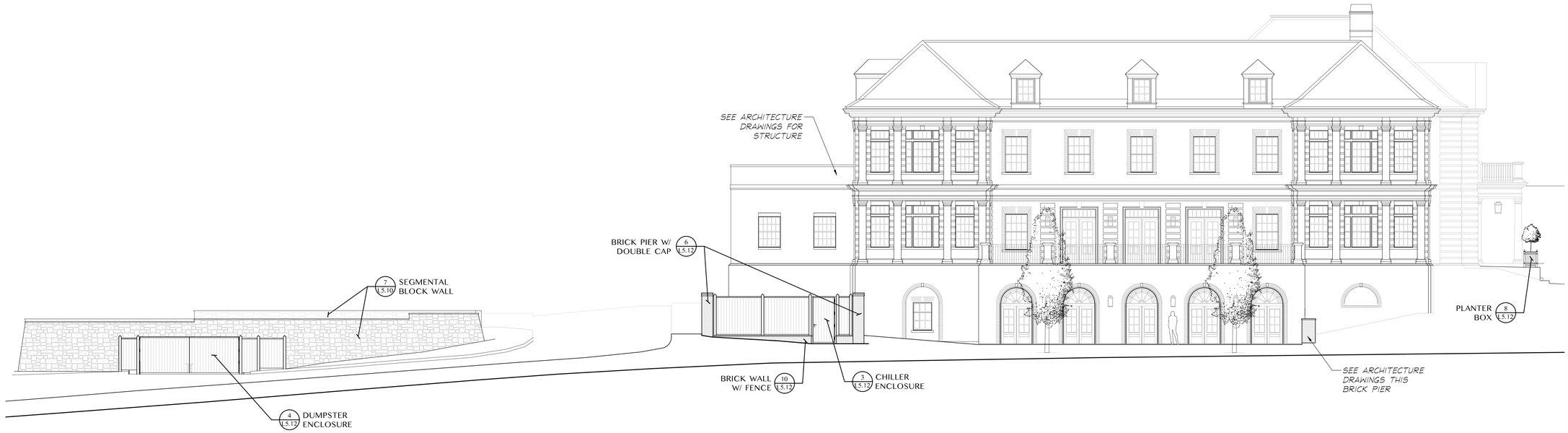
12.18.2025
Title

LANDSCAPE ELEVATIONS

Sheet No.
L5.00



1 L5.01 WEST ELEVATION
SCALE: 1/8"=1'-0"



2 L5.01 EAST ELEVATION
SCALE: 1/8"=1'-0"

0 2 4 8 16 24 32
SCALE: 1/8" = 1'-0"

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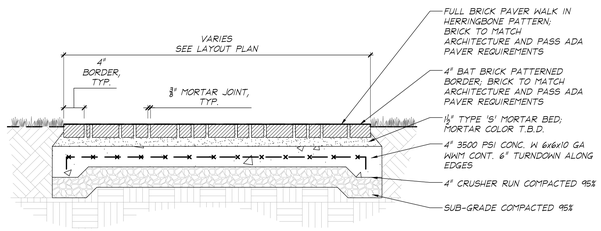
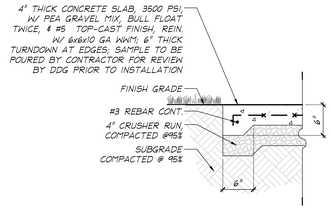
LANDSCAPE ELEVATIONS CONT'D

Sheet No.
L5.01

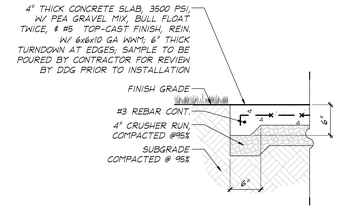


1 L5.10 BRICK WALK WITH BRICK BORDER SECTION
SCALE: 1"=1'-0"

ATTENTION:
CONTRACTOR TO PROVIDE CONCRETE SAMPLES FOR FINAL REVIEW PRIOR TO POUR.

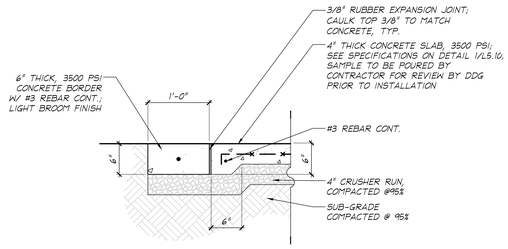


2 L5.10 TOP-CAST CONCRETE PAVING SECTION
SCALE: 1"=1'-0"



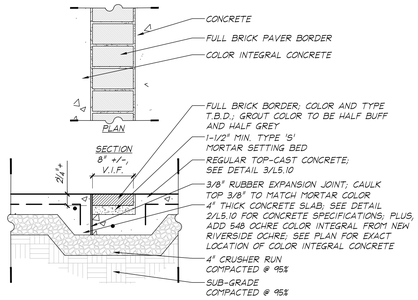
3 L5.10 TOP-CAST CONCRETE PAVING AT FRONT PORCH RAMP SECTION
SCALE: 1"=1'-0"

NOTE:
SEE DETAIL 9/L5.12 FOR CONCRETE IMAGES.

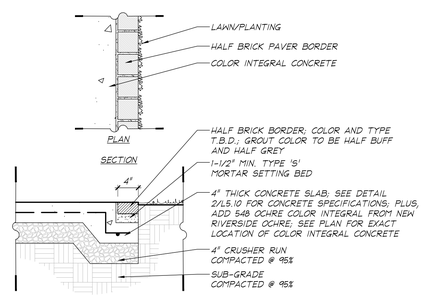


4 L5.10 TOP-CAST CONCRETE TERRACE WITH CONCRETE BORDER SECTION
SCALE: 1"=1'-0"

ATTENTION:
BRICK AT WALKING SURFACE TO MEET ADA REQUIREMENTS.

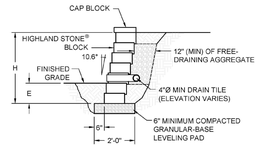


5 L5.10 CONCRETE TERRACE WITH FULL BRICK BORDER SECTION
SCALE: 1"=1'-0"



6 L5.10 CONCRETE TERRACE WITH HALF BRICK BORDER SECTION
SCALE: 1"=1'-0"

ATTENTION:
WALL TO BE DESIGNED BY MANUFACTURER/STRUCTURAL ENGINEER.



ANCHOR BUILD SOMETHING BEAUTIFUL
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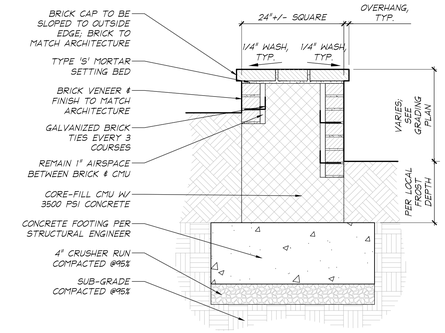
This drawing is for illustrative purposes only and should not be used for construction without the signature of a registered professional engineer.

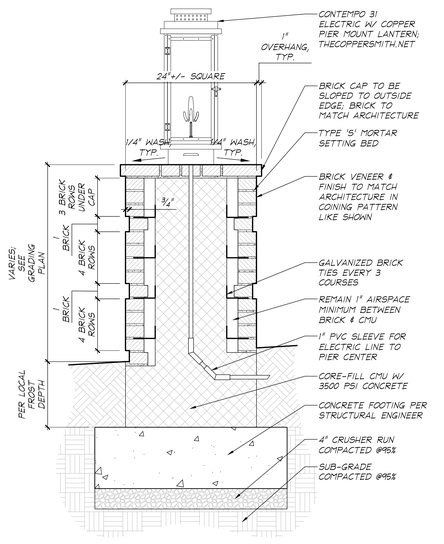
Highland Stone® Retaining Wall System
Typical Gravity Cross Section

Scale: 3/8" = 1'-0" | Drawn by: SB | Date: ---- | Drawing number: HRE07

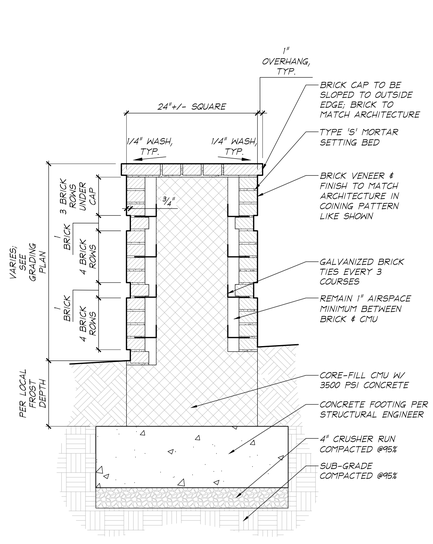
7 L5.10 SEGMENTAL BLOCK WALL TYPICAL SECTION
NOT TO SCALE



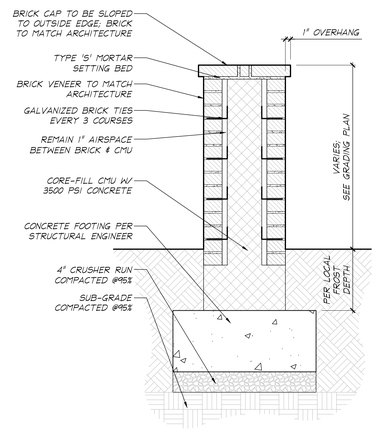
8 L5.10 BRICK PIER SECTION
SCALE: 1"=1'-0"



9 L5.10 BRICK PIER W/ ELECTRIC LANTERN SECTION
SCALE: 1"=1'-0"

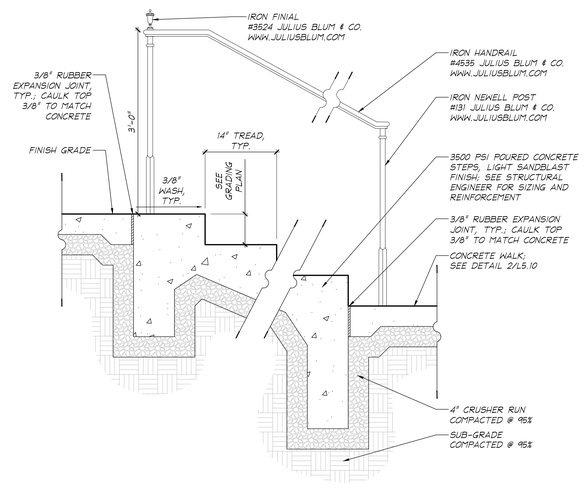


10 L5.10 BRICK PIER W/ COINING SECTION
SCALE: 1"=1'-0"



11 L5.10 BRICK WALL SECTION
SCALE: 1"=1'-0"

ATTENTION:
ALL IRONWORK SHOP DRAWINGS TO BE REVIEWED BY DDG LANDSCAPE ARCHITECTS PRIOR TO FABRICATION.



12 L5.10 TYPICAL CONCRETE STEP SECTION
SCALE: 1"=1'-0"

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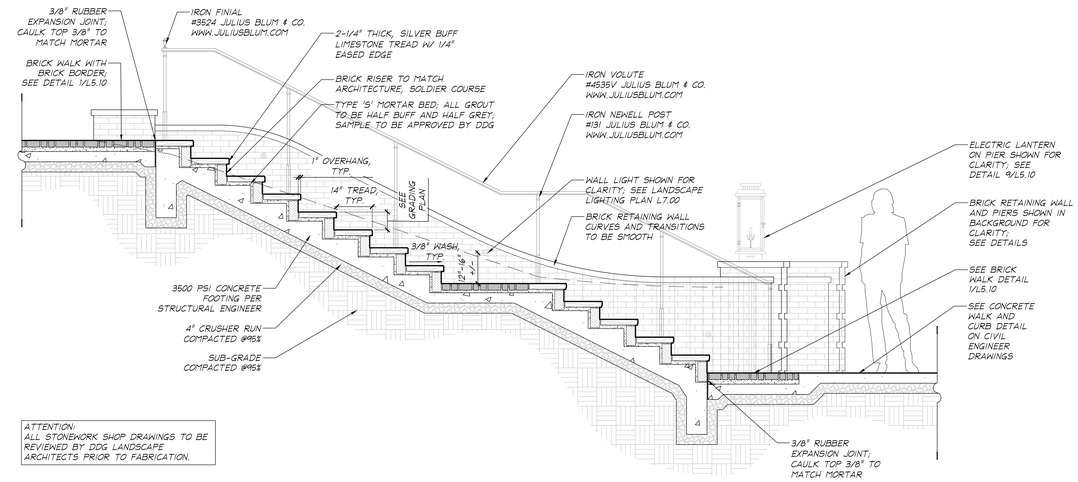
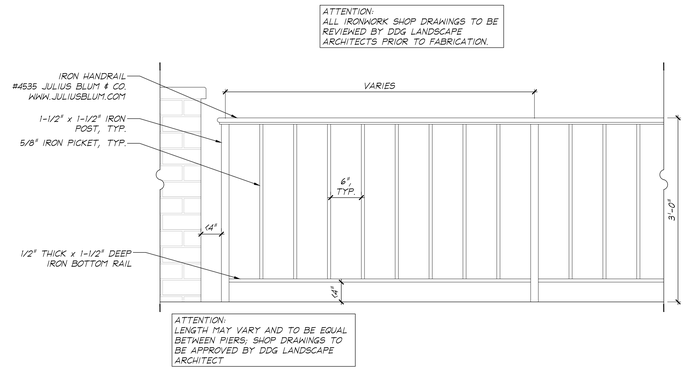
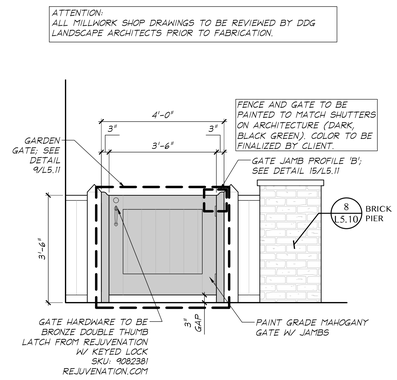
L5.10



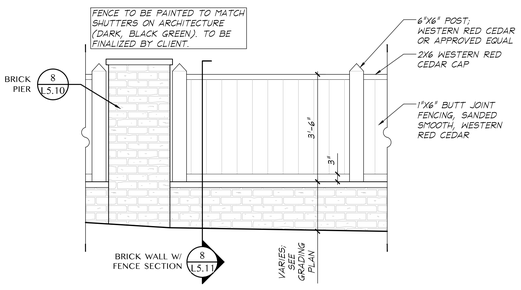
1 L5.11 STONE STEPS W/ BRICK RISER SECTION
SCALE: 1/2"=1'-0"



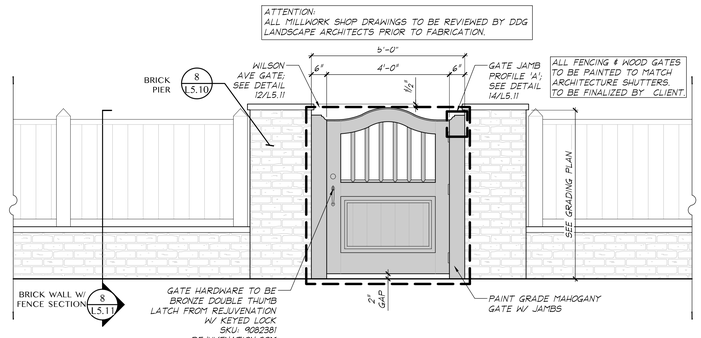
2 L5.11 IRON RAILING AT WALLS
SCALE: 1"=1'-0"



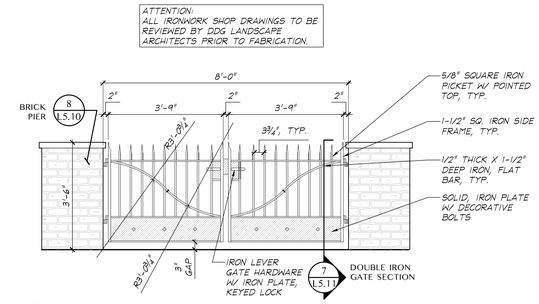
3 L5.11 GARDEN GATE 'A' ELEVATION
SCALE: 1/2"=1'-0"



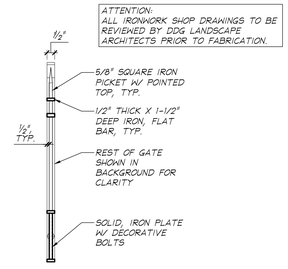
4 L5.11 BRICK WALL WITH WOOD FENCE ELEVATION
SCALE: 1/2"=1'-0"



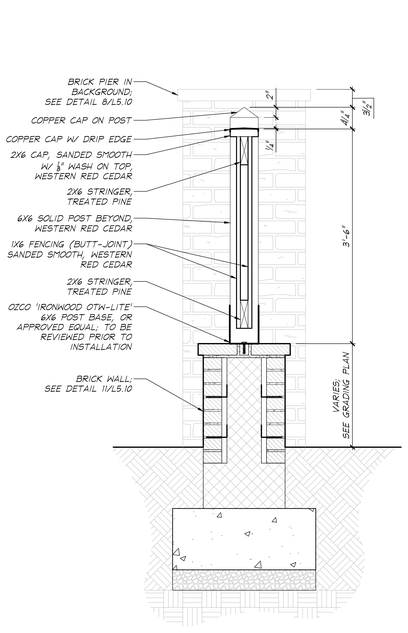
5 L5.11 WILSON AVE GATE ELEVATION
SCALE: 1/2"=1'-0"



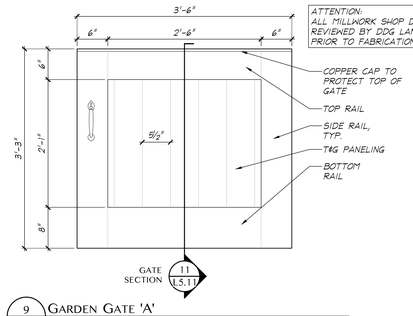
6 L5.11 DOUBLE IRON GATE ELEVATION
SCALE: 1/2"=1'-0"



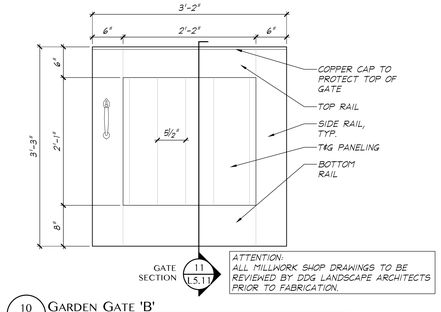
7 L5.11 DOUBLE IRON GATE SECTION
SCALE: 1"=1'-0"



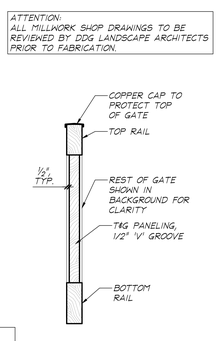
8 L5.11 BRICK WALL WITH WOOD FENCE ELEVATION
SCALE: 1/2"=1'-0"



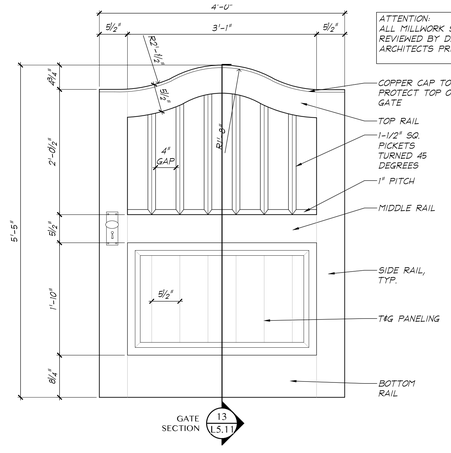
9 L5.11 GARDEN GATE 'A'
SCALE: 1"=1'-0"



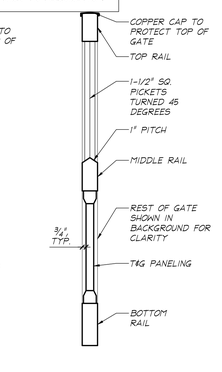
10 L5.11 GARDEN GATE 'B'
SCALE: 1"=1'-0"



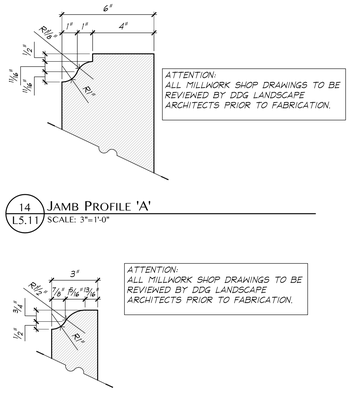
11 L5.11 GARDEN GATE SECTION
SCALE: 1"=1'-0"



12 L5.11 WILSON AVE GATE
SCALE: 1"=1'-0"



13 L5.11 WILSON AVE GATE SECTION
SCALE: 1"=1'-0"



14 L5.11 JAMB PROFILE 'A'
SCALE: 3"=1'-0"

15 L5.11 JAMB PROFILE 'B'
SCALE: 3"=1'-0"

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Date 12.18.2025

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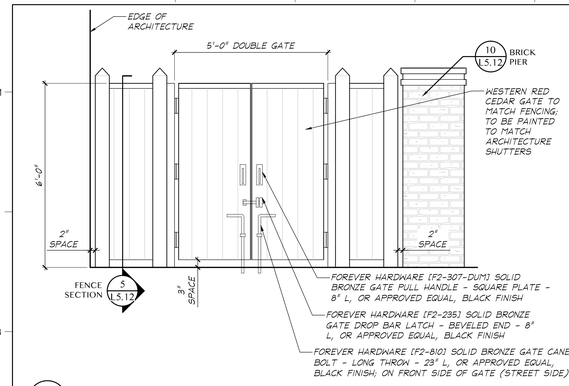
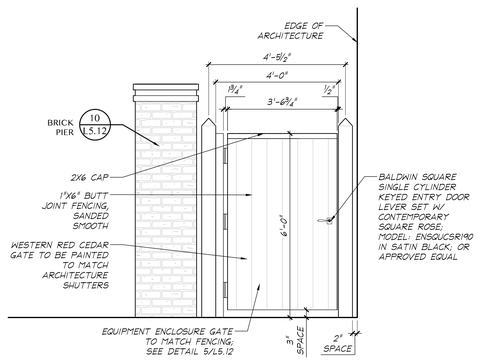
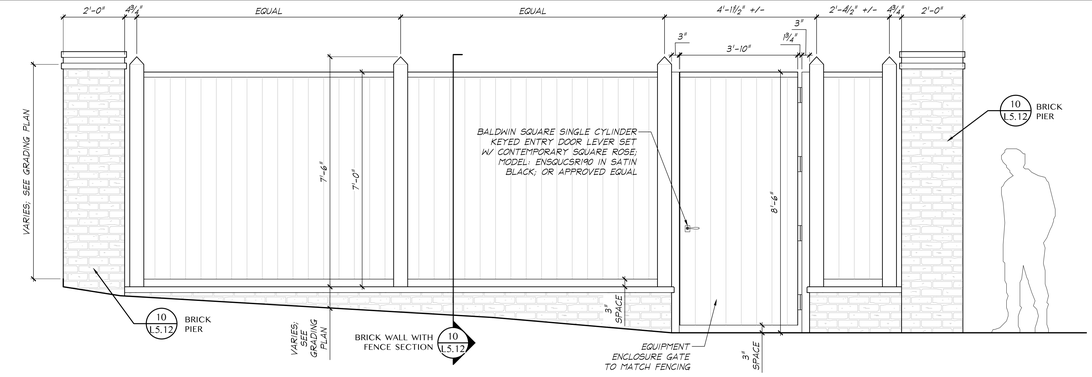


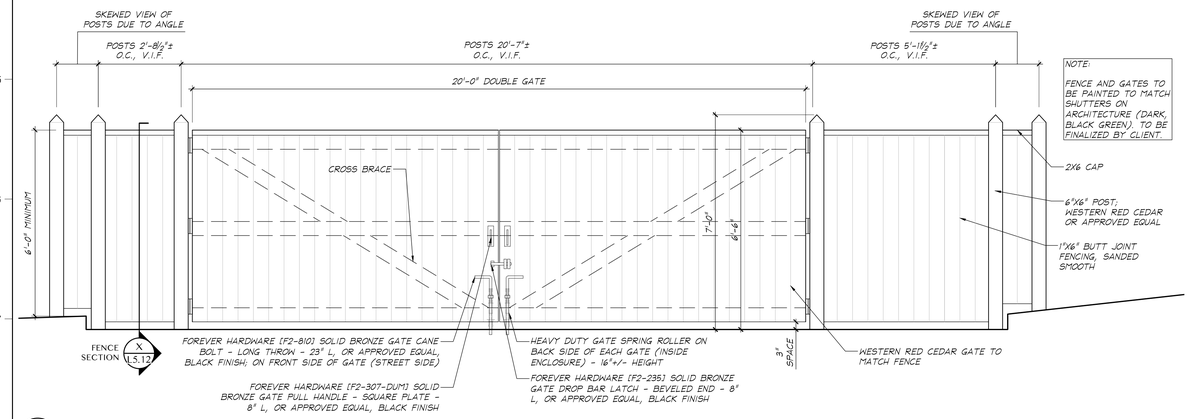
1 L5.12 TRASH ENCLOSURE ELEVATION
SCALE: 1/2"=1'-0"



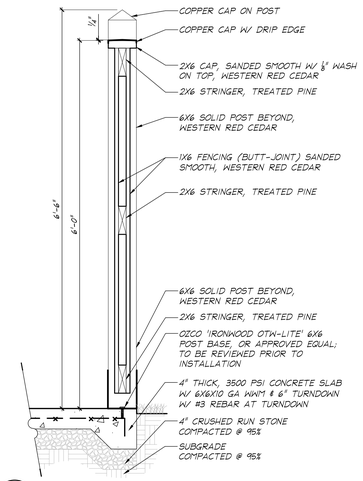
2 L5.12 EQUIPMENT GATE ELEVATION
SCALE: 1/2"=1'-0"



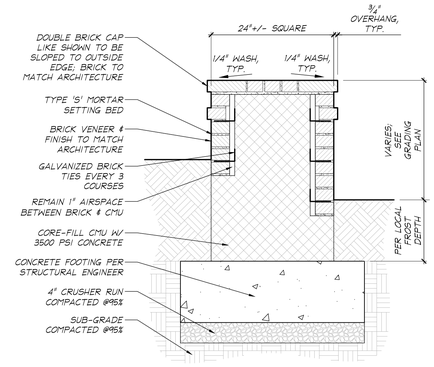
3 L5.12 CHILLER ENCLOSURE ELEVATION
SCALE: 1/2"=1'-0"



4 L5.12 DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/2"=1'-0"



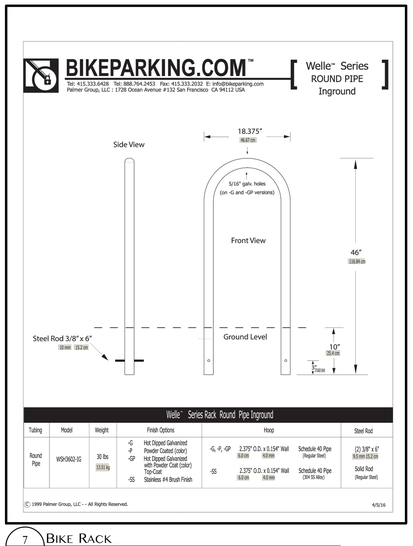
5 L5.12 TYPICAL FENCE SECTION
SCALE: 1"=1'-0"



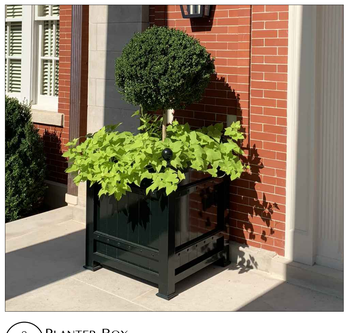
6 L5.12 BRICK PIER SECTION WITH DOUBLE BRICK CAP
SCALE: 1"=1'-0"

NOTE:
(5) BIKE RACKS SHOWN ON PLAN TO MATCH UNIV. OF ARK. STANDARD.

ITEM NO. : WSHB602-IG-P
MATERIAL : STEEL
COLOR : RAL 7037 "DUSTY GREY" POWDER COAT



7 L5.12 BIKE RACK
SCALE: NOT TO SCALE



PLANTER BOX:
(2) 30" SQUARE, GLENCOE CEDAR AND COMPOSITE ORANGERIE PLANTER BOX W/ LINER BY KIMBALL AND BEAN, COLOR TO MATCH ARCHITECTURE SHUTTERS (TO BE FINALIZED BY CLIENT)

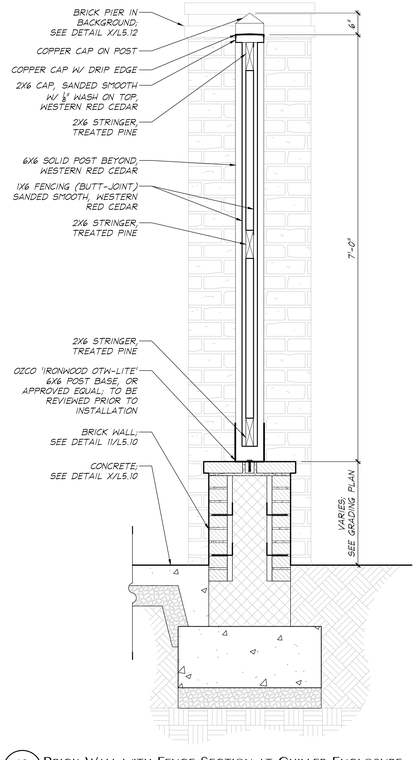
MODEL: GDPL308

KIMBALLANDBEAN.COM

8 L5.12 PLANTER BOX
SCALE: N/A



9 L5.12 CONCRETE IMAGES
SCALE: N/A



10 L5.12 BRICK WALL WITH FENCE SECTION AT CHILLER ENCLOSURE
SCALE: 1"=1'-0"

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MICHAEL ALAN JUNE — REGISTERED LANDSCAPE ARCHITECT — #459

No.	Issue	Date

Job No. UAFAPH-21.01

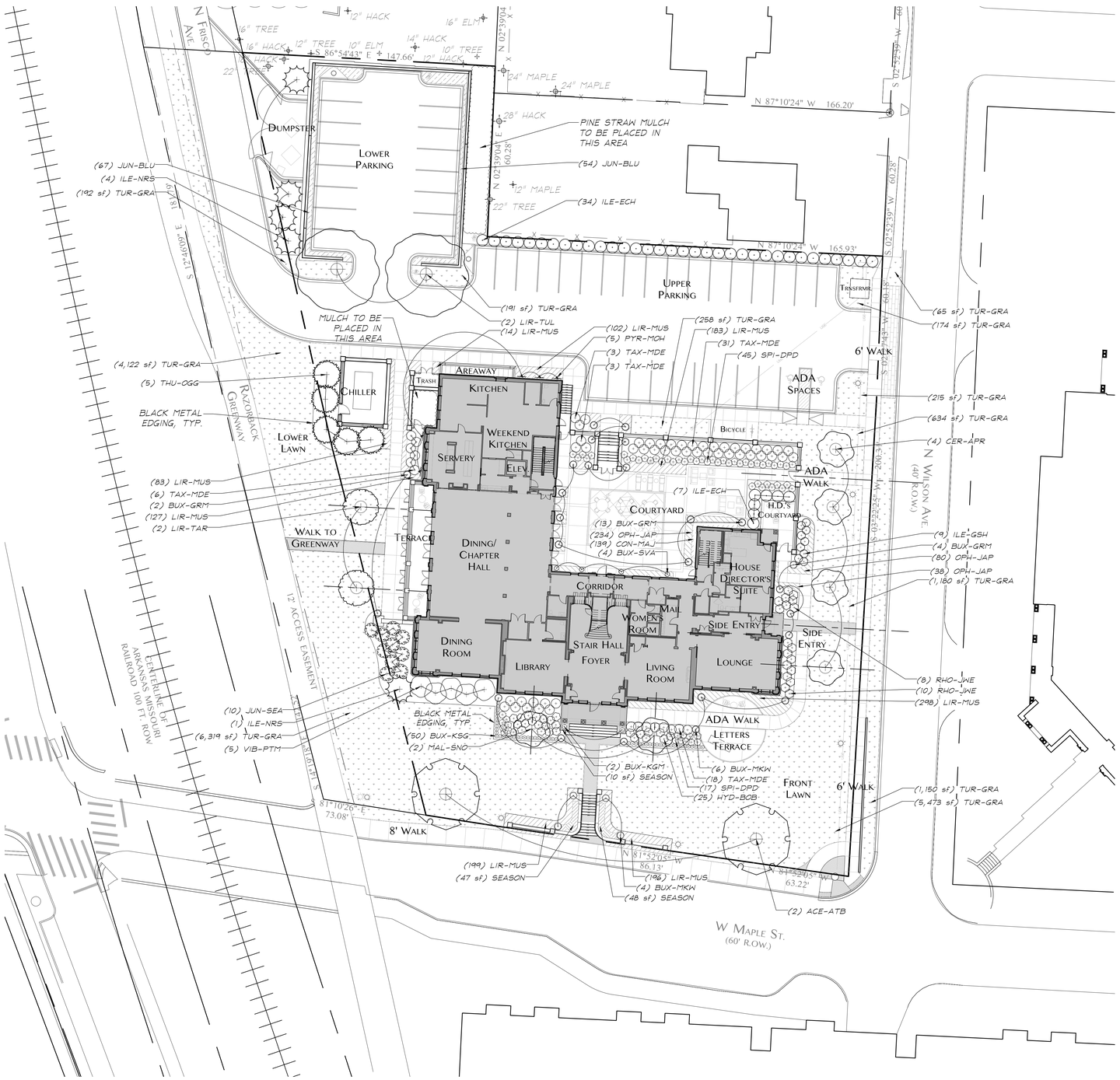
Date 12.18.2025

Title

DETAILS CONT'D

Sheet No.

L5.12



0 5 10 20 40 60 80

SCALE: 1" = 20'-0"

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Fayetteville, AR 72701

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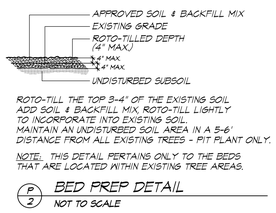
PLANTING PLAN

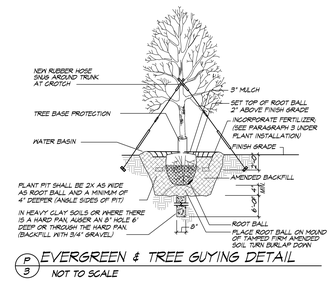
Sheet No.
L6.00

PLANT SCHEDULE

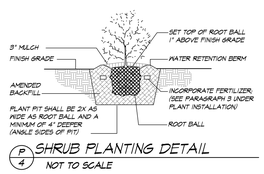
CODE	QTY	BOTANICAL / COMMON NAME	ROOT	CAL.	SIZE		REMARKS
TREES							
ACE-ATB	2	Acer rubrum 'Autumn Blaze' / Autumn Blaze Red Maple	B & B	3" CAL.			Well-branched, specimen
CER-APR	4	Cercis canadensis 'Appalachian Red' / 'Appalachian Red' Eastern Redbud	B & B	3" CAL.			Single-trunk, limbed up 4' minimum, matched
ILE-NRS	5	Ilex x 'Nellie R Stevens' / Nellie R. Stevens Holly	B & B		12'-14' HT.		Dense, full to ground, matched
LIR-TUL	2	Liriodendron tulipifera / Tulip Poplar	B & B	3"Cal			Well-branched, specimen, single-trunk
LIR-TAR	2	Liriodendron tulipifera 'Arnold' / Arnold's Tulip Poplar	B & B	4"Cal			Single-leader, well-branched
MAL-SNO	2	Malus x 'Snowdrift' / Snowdrift Crabapple	B & B	3" CAL.			Single-trunk, limbed up 4' minimum, heavily branched
THU-OGG	5	Thuja occidentalis 'Green Giant' / Green Giant Arborvitae	B & B		12'-14' HT.		Well-branched to ground, dense, full, matched
CODE	QTY	BOTANICAL / COMMON NAME	ROOT	SIZE			REMARKS
SHRUBS							
BUX-KGM	2	Buxus koreana 'Green Mountain' / Green Mountain Boxwood	B & B	30"			12" Dia. Minimum, Single Topiary Ball Limbed Up into Treeform
BUX-KSG	50	Buxus koreana x sempervirens 'Green Velvet' / Green Velvet Boxwood	CONT.	18"X18"			Dense, full, even in height and width
BUX-MKA	10	Buxus microphylla var. koreana 'Winter Green' / Winter Green Boxwood	B & B	30"x30"			Dense, full, matched
BUX-SVA	4	Buxus sempervirens 'Vardar Valley' / Vardar Valley Boxwood	CONT.	18" x 18"			Dense, full, matched
BUX-SRM	19	Buxus x 'Green Gem' / Green Gem Boxwood	CONT.	24"X24"			Full, matched, even in height and width
HYD-BOB	25	Hydrangea paniculata 'Bobo' / Bobo Hydrangea	CONT.	5 GAL.			Well-branched, dense, matched
ILE-SSH	9	Ilex glabra 'Shamrock' / Shamrock Holly	CONT.	5 GAL.			Dense, well-branched, matched
ILE-ECH	41	Ilex x 'RutHoll' / Emerald Colonnade Holly	B & B	5'-6' ht.			Full, well-branched, matched
JUN-SEA	10	Juniperus x pfitzeriana 'Sea Green' / Sea Green Juniper	CONT.	7 GAL.			Dense, well-branched, matched
RHO-JAE	18	Rhododendron x ENCORE 'Autumn Jewel' / Autumn Jewel Azalea	CONT.	3 GAL.			Heavily-branched, matched
SPI-DPD	62	Spiraea x 'Double Play Doozie' / Double Play Doozie Spirea	CONT.	3 GAL.			Well-branched, dense, matched
TAX-MDE	61	Taxus x media 'Densiformis' / Dense Spreading Yew	CONT.	7 GAL.			Matched, dense, branched to the ground
VIB-PTM	5	Viburnum plicatum tomentosum 'Mariesii' / Mariesii Double File Viburnum	CONT.	7 GAL.			Well-branched, dense, matched
VINE/ESPALIER							
PYR-MOH	5	Pyracantha coccinea 'Mohave' / Mohave Pyracantha Espalier	CONT.	5 gal.			Well-branched, trained vertically, 4'h x 4'w
CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE		SPACING	REMARKS
GROUND COVERS							
CON-MAJ	194	Convallaria majalis / Lily of the Valley	CONT.	4" POT		8" o.c.	Well-rooted, dense, matched
JUN-BLU	121	Juniperus horizontalis 'Wiltonii' / Blue Rug Juniper	CONT.	1 GAL.		24" o.c.	Dense, well-branched, matched
LIR-MUS	1,202	Liriope muscari 'Big Blue' / Big Blue Lily Turf	POT	4" POT		12" o.c.	Dense, well-rooted, matched
OPH-JAP	352	Ophiopogon japonicus / Mondo Grass	POT	4" POT		12" o.c.	Well-rooted, full
ANNUALS							
SEASON	105 sf	Seasonal Color / Seasonal Color	CONT.				Spring - Hyacinth bulbs Summer - Angelonias Fall/Winter -Pansies
SOD/SEED							
TUR-SRA	19,973 sf	Turf Grass / Turf Grass	sod				Sod --To be determined.



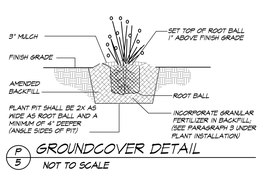
P 2 BED PREP DETAIL
NOT TO SCALE



P 3 EVERGREEN & TREE GUYING DETAIL
NOT TO SCALE



P 4 SHRUB PLANTING DETAIL
NOT TO SCALE



P 5 GROUNDCOVER DETAIL
NOT TO SCALE

LANDSCAPE NOTES:

1) Before the landscape project is started, the chosen landscape contractor will meet the Landscape Architect on site for a detailed explanation of the landscape plan. All plant material provided shall be nursery grown and shall comply with the American Standard For Nursery Stock: ANSI Z60.1-1996, for size and quality. No substitutions as to type, size, or spacing of plant materials specified on this plan may be made without written approval of owner and Landscape Architect. All plants will be guaranteed to live, flourish, and be true-to-name for one full year from the date of completion of work by the landscape contractor as determined by the Landscape Architect.

2) It is the contractor's responsibility to protect existing trees to remain. No heavy equipment should be permitted to be operated or stored, nor any materials to be handled or stored within the drip lines of any trees to remain. Specific instructions regarding planting within the drip line of existing trees can be found in detail P/2 on L6.13.

3) The quantities indicated on the plant list and plan are provided for the benefit of the contractor, but should not be assumed to always be correct. The landscape contractor assumes all responsibility for his or her own quantity calculations and the liability which pertains to those quantities and to any related contract documents and/ or price quotations.

4) The contractor is to verify the exact locations of all existing utilities. Take care to protect utilities that are to remain. Repair any damage according to local standards and codes, and at landscape contractor's expense. Coordinate all construction with appropriate utility company.

5) All disturbed areas outside of planters and planting beds to be seeded unless otherwise noted on landscape plan. Seed type to be approved by Landscape Architect.

BED PREPARATION NOTES:

The objective of the bed preparation and planting notes herein is to develop and preserve landscape material according to our landscape plan. Included in that goal is a standard of achieving optimum health, including growth and appearance of all ornamental landscape plants, while recognizing the unique growing environment presented by each planting location. The chosen landscape contractor must perform percolation tests in areas of planting, especially in areas where plants are to be installed that do not tolerate wet conditions. If it is observed that soils to not percolate well, the Landscape Architect and home owner are to be notified immediately and prior to any planting. Before planting installation is to begin, a soil test is to be performed for all planting areas in order to determine the soil's structure, pH, and nutrient content. Specifically addressing the relationship between nitrogen, phosphorus, and potassium; as well as testing for other nutrients, organic matter, and soluble salt composition. Analysis is also required of any stockpiled topsoil. If topsoil is imported, then analysis shall be done for each location where the topsoil was excavated. These tests will guide the makeup of all future soil amendments as well as any additional soil excavation and replacement that may be necessary when determined and or approved by Landscape Architect and home owner. These notes provide a general outline for soil sampling, preparation, plant installation, fertilization, and mulching..

OBTAINING SOIL SAMPLES FOR TESTING:

Proper interpretation of soil test results depends upon collecting a representative sample of the soil. Soil samples can be taken any time of year. Separate samples should be collected from areas that differ in soil texture, color, slope, plant communities, and past management practices. Samples are most easily collected using a clean soil tube, soil auger, garden trowel, or spade. The chosen tool for collection shall also be free from rust. Sample garden soils and soils to be used for turf to a depth of 8-12". Each soil sample should be a composite of sub samples collected from randomly selected spots within a chosen area. Take 5-10 sub samples for small areas no larger than 1000 square feet. Take 10-15 sub samples for areas larger than 1000 square feet. Collect the sub samples in a clean plastic pail and mix the soil thoroughly. Air-dry the sample on a thin layer of butcher paper, plastic, or another clean surface. Do not use newspaper. After the soil sample is dry, place a minimum of one pint of this mixture into a sample bag or box. Label the sample container and keep a record of the area represented by each sample taken. Samples can be sent directly to soil testing facilities in the area.

PLANTING SOIL PREPARATION:

Soil preparation shall be provided on all areas to be planted, and on turf areas where specified. Future soil mixes and topsoil shall improve soil texture, tilth, and biological activity of the planting bed soil. All planting soil, topsoil, mulch, "soil conditioners" and other additives and amendments are subject to testing and approval of the home owner and Landscape Architect.

The planting soil shall be tested and shall meet the following criteria:

pH range	6.0-7.0
organic matter	25%
soluble salts not o exceed	500ppm
soluble salt concentration	10dS/m max.
physical contaminants	<1%, dry weight basis
chemical contaminants	meet or exceed US EPA

SOIL TESTING:

Testing shall be done by a qualified soils laboratory, in accordance with "Methods of Soils Analysis -Agronomy #9" as published by the American Society of Agronomy, and testing shall be at the contractor's expense. Upon request of the owner and Landscape Architect, the following information shall be provided:
-specific locations from which the manure and organic compost were obtained
-agricultural test results showing mixture composition and analysis

SOIL ADD MIXTURES:

Additional soil materials and amendments shall be a uniform mix, free of stones, stumps, roots, sticks, or other similar objects larger than 1". The mixture shall also be free from clay subsoil, mountain peat, lumps, plants or their roots, weed stolons, and seeds. No other materials or substances shall be mixed or dumped within the planting area that may be harmful to plant growth, or prove a hindrance to the planting or maintenance operations. The soil materials shall be free of noxious weeds.

SOIL AMENDMENTS:

Soil material amendments shall be a mixture of twenty-five percent (25%) ground aged manure (or comparable, approved substitute) and fifty percent (50%) composted organic matter. The manure and organic compost shall be coarsely ground and thoroughly mixed together to ensure an even composition. The mix shall have a carbon to nitrogen ratio ranging from 15:1 to 30:1, and shall meet the following mechanical analysis:

	%Passing	%Retained
2" screen	100	0
1" screen	90-100	0-10
½" screen	50-80	20-50
#100 mesh sieve	0-15	85-100

COMPOST:

Compost used shall be a well decomposed, stable, weed free organic matter source. It shall be derived from: yard trimmings, agricultural, food, or industrial residuals. The product shall contain no substances toxic to plants, humans, or animals and shall be reasonably free (<1% by dry weight) of man-made foreign matter. The composted material will possess no objectionable odors and shall not resemble the raw material from which it was derived.

TOPSOIL:

Good topsoil is highly desirable, and may equal the value of soil amendments as far as encouraging growth. When good topsoil exists on site, the contractor may be required to strip and stock pile topsoil, and redistribute topsoil at a later time in the construction process. Topsoil shall be a fertile sandy clay loam. Topsoil shall be taken from the top 18-24" of a well-drained site, and be free from clay subsoil, stones, lumps, plants or their roots, sticks, stolons, seeds, high salt content, and other materials harmful to plant life, and shall be screened and meet the following mechanical analysis:

	%Passing	%Retained
1"screen	100	0
½"screen	97-100	0-3
#100 mesh sieve	60-40	40-60

Root stock of all material to be planted shall be kept moist at all times during transportation and on-site storage. Set and maintain the plants upright and straight throughout the entire on site storage and planting process. .

COMPACTION:

It is very important to minimize compaction of the planting beds as well as stockpiled topsoil and imported topsoil. Whenever necessary and possible, use excavation hoes to remove original soils. If use of a loader is necessary, contractor should use wide track or light equipment with turf type tires. Use of equipment with narrow tracks or tires, rubber tires with large lugs, or high pressure tires will cause excessive compaction resulting in reduced infiltration rates and is not acceptable. Compaction will significantly contribute to design failure.

PLANT INSTALLATION:

1) Soil amendments shall be incorporated in the following manner; the soil surface shall be loosened by rototilling to a minimum depth of 18" (only when outside the drip line of existing trees). All materials over 1" in diameter shall be removed. The manure and organic compost mixture shall be evenly spread over the area at a rate of 12 cubic yards per thousand square feet, and shall be mixed thoroughly into the soil surface to a depth of 6 inches by means of a rototiller, soil mixer or similar apparatus. Adjusting agents (e.g. lime and sulfur) may be applied in conjunction at this time based on the soil tests, and approved by the Landscape Architect. When incorporating topsoil, it should be spread over the area to a minimum 4" compacted depth, and mixed lightly into the subsoil by means of a rototiller, soil mixer or similar apparatus. Amendments are to be spread and tilled into the soil uniformly.

2) In situations where existing soil is to be excavated from non-turf planters and replaced as per planting plan notes, remove soil to specified depth. Replace soil with a mixture containing fifty percent (50%) coarse river sand, twenty-five percent (25%) organic matter, and twenty-five (25%) topsoil. Soil mixture will be subject to the same chemical and mechanical analysis described above. Composted organic matter used shall be a well decomposed, stable, weed free source. It shall be derived from: yard trimmings, agricultural, food, or industrial residuals. The product shall contain no substances toxic to plants, animals, or humans and shall be reasonably free (<1% by dry weight) of man-made foreign matter. The composted organic matter will possess no objectionable odors and shall not resemble the raw material from which it was derived. Topsoil shall be a fertile sandy clay loam. Topsoil shall be taken from the top 18-24" of a well-drained site, and free from clay subsoil, stones, lumps, plants or their roots, sticks, stolons, and seeds, high salt content, and other materials harmful to plant life. Mix soil mixture lightly into the subsoil by means of a rototiller, soil mixer or similar apparatus

3) Fertilize all plant beds and planters with a complete slow release fertilizer which has a 2-1-2 NPK ratio to stimulate root growth. Fertilize planting beds at a rate that will provide 2-3 lbs. of actual nitrogen per 1000 square feet in the planting bed. Prior to seeding or sodding, fertilizer with a 10-10-10 NPK ratio shall be spread evenly over the surface at the rate of five pounds per thousand square feet. Never shall fertilizers be added to the soil of a new planting bed or lawn area with NPK ratios higher than 10-10-10.

4) All planting beds within the drip line of existing trees are to be prepped with the addition of light topsoil amendments over the existing topsoil and vertical mulching. The vertical mulching should occur at 18" on center with a 1 to 1.5" auger, 12-15" deep. The augured holes are to then be filled with approved organic matter and mulches.

5) The diameter of the planting pit shall be at least six inches larger than the diameter of the planting ball for all trees and large shrubs. Trees and large shrubs shall be planted so 1/8 of the root ball is above final grade (at least 2" of root ball). All plants are to be installed with mycorrhizae, following manufacturer's directions. The top soil material should taper out around plant crowns, particularly with perennials.

6) Thoroughly water the ground bed cover after installation. Contractor shall mulch planting beds to a depth of 2.5 to 3", not allowing mulch depth over 1" against any tree trunk. Shredded pine mulch is the only accepted mulch and must be aged a minimum of 6-12 months for acceptance. Hardwood mulch will not be accepted. Leave some organic matter on the surface.

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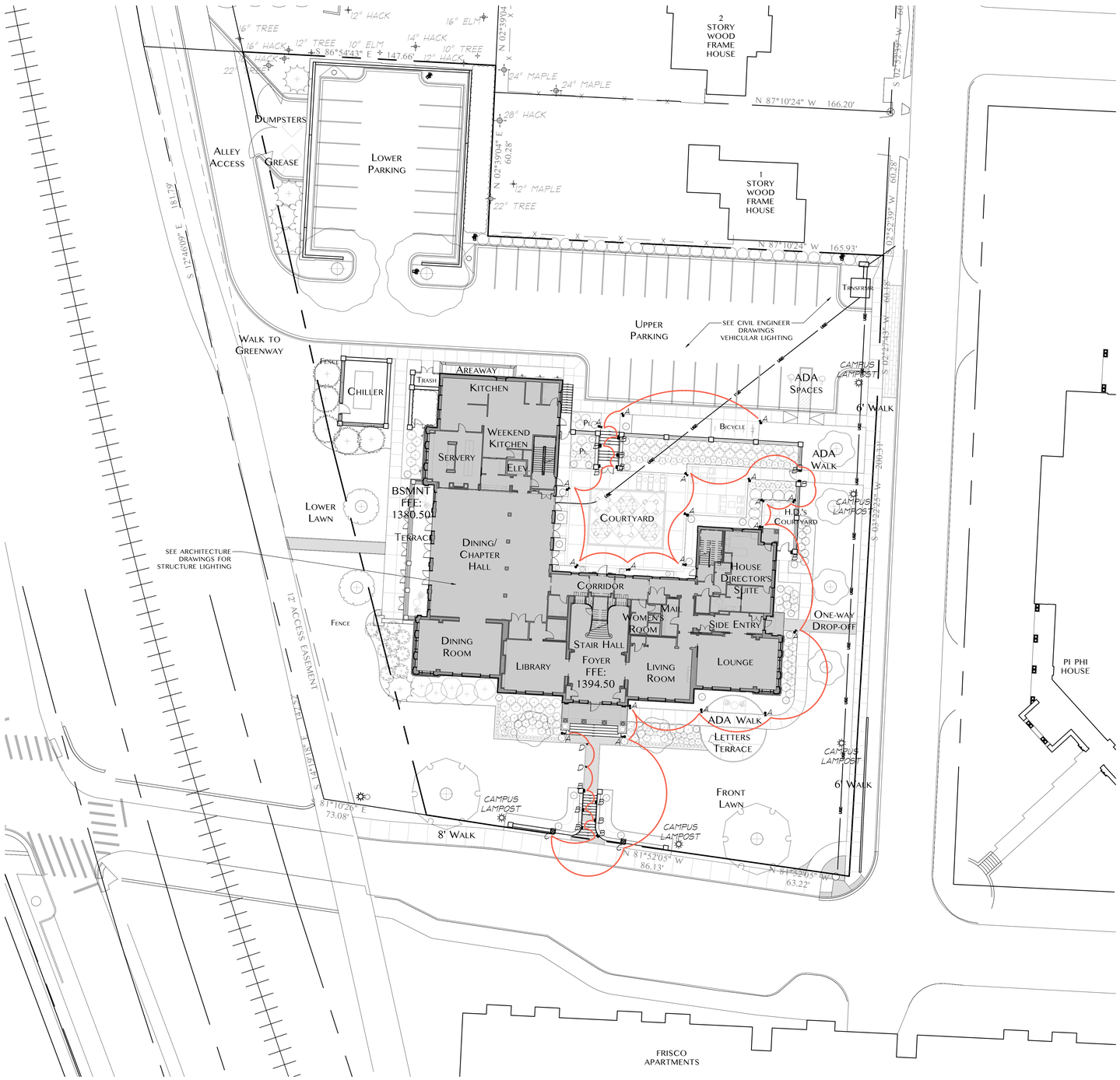
PLANT SCHEDULE & DETAILS

Sheet No.

L6.01



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LEGEND

KEY	SYMBOL	QTY.	FIXTURE	CUT SHEET
A		19	SINGLE PATH LIGHT	1/L7.01
B		14	WALL LIGHT	2/L7.01
C		2	ELECTRIC LANTERN, PIER MOUNT	3/L7.01
D		2	PATH LIGHT IN PAVING	4/L7.01

0 5 10 20 40 60 80

SCALE: 1" = 20'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

LANDSCAPE LIGHTING PLAN

Sheet No.

L7.00

ELECTRICAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES HAVING JURISDICTION.

2. ALL WIRING IS DIAGRAMMATIC ONLY. ALL PLOT DIMENSIONS ARE APPROXIMATE. THE PLANS, THOUGH CAREFULLY DRAWN, ARE GENERALLY DIAGRAMMATIC TO THE EXTENT THAT DIMENSIONS ARE NOT SHOWN. ALL FIXTURE LOCATIONS ARE TO BE APPROVED BY LANDSCAPE ARCHITECT.

3. GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ADEQUATE CAPACITIES ON LIGHTING CIRCUITS AND EXPEDITING ATTACHMENT OF PROPOSED SYSTEM TO APPROPRIATE CIRCUITS.

4. FIELD LOCATIONS AND CLOCK PLACEMENT ARE TO BE REVIEWED BY LANDSCAPE ARCHITECT. (OWNER TO DESIGNATE LOCATION FOR AND NUMBER OF CLOCKS.)

5. ALL ELECTRICAL CONTROL PANELS SHALL INDICATE ALL ELECTRICAL CIRCUITS (LIGHTS & OUTLETS) EXISTING & NEW. ALL SHALL BE LISTED ON THE CIRCUIT CARD OF THE ELECTRICAL PANEL FROM WHICH THEY ORIGINATE. THE LISTING SHALL INCLUDE THE CIRCUIT NUMBER, AREA OF SERVICE AND TYPE OF EQUIPMENT SERVED.

6. EACH CIRCUIT HAS (1) DESIGNATED GROUND WIRE AND AN INDIVIDUAL COMMON WIRE.

7. VERIFY ALL SLEEVE LOCATIONS WITH GENERAL CONTRACTOR.

8. ALL LOW-VOLTAGE FIXTURES MUST BE WIRED SUFFICIENTLY IN ORDER TO ACCOMMODATE A 50 WATT LAMP.

9. WIRE SIZING AND BALANCING OF LOADS TO BE SUFFICIENT TO ALLOW NO MORE THAN ½ (ONE-HALF) VOLT DROP IN LOW-VOLTAGE LINE.

10. SILICONE-TYPE WATERPROOF CONNECTIONS TO BE USED ON ALL LOW-VOLTAGE CONNECTIONS WITH ELECTRICAL TAPE REINFORCEMENT OR APPROVED EQUAL.

LEGEND

KEY	SYMBOL	QTY.	FIXTURE	CUT SHEET
A		19	SINGLE PATH LIGHT	1/L7.01
B		14	WALL LIGHT	2/L7.01
C		2	ELECTRIC LANTERN, PIER MOUNT	3/L7.01
D		2	PATH LIGHT IN PAVING	4/L7.01

NOTE:
ALL LAMP COLOR AND FINISHES TO BE REVIEWED BY LAND. ARCHT. PRIOR TO ORDERING. ANY LIGHT MANUFACTURER OR LAMP SUBSTITUTIONS TO BE REVIEWED WITH LAND. ARCHT. & OWNER

Dauer MANUFACTURING®

SPECIFICATION SHEET

Type:

Model:

ARIA 16" and 20" LED MR16 Path Light Fixture



ORDERING CODE:
489917-P16 (16") 489917-P20 (20")

SPECIFICATIONS

HOUSING:
Solid brass. Threaded with O-ring. Watertight and bug-tight.

FINISH:
Weathered brass. Architectural colors and custom powder coated colors available.

LENS:
Clear flat tempered glass.

SOCKET/LAMP HOLDER:
One fixed ceramic bi-pin socket with stainless steel retaining springs.

LAMP TYPE:
12V MR16. LED recommended. 30W halogen or 7W LED maximum.

MOUNTING:
Stake mount included.

WIRING:
Pre-wired with 5' pigtail of 18/2 cable.

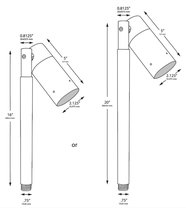
WARRANTY:
Lifetime.

ARCHITECTURAL COLORS:

FINE TEXTURE SILVER	Aria 16" Uplight (489917-P16-S) Aria 20" Uplight (489917-P20-S)
FINE TEXTURE WHITE	Aria 16" Uplight (489917-P16-WH) Aria 20" Uplight (489917-P20-WH)
FINE TEXTURE BLACK	Aria 16" Uplight (489917-P16-BLK) Aria 20" Uplight (489917-P20-BLK)

Standard colors: Bronze Aria 16" uplight (489917-P16) / Bronze Aria 20" uplight (489917-P20). Architectural colors and powder coated colors are also available.

DIMENSIONS:



HQ: 10505 NW 112 Ave, Suite 18 | Miami, FL 33178 | Plant: 1430 Gould Blvd., Suite 3 | La Vergne, TN 37086 | 888.DAUER.LED DauerManufacturing.com

1 PATH LIGHT FIXTURE
L7.01 SCALE: N/A

auroralight

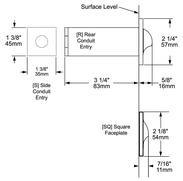
TYPE:

CAT. #: LSW8-

LSW8 MERIDIAN



BR-NAT



The **LSW8** offers excellent illumination of walkways and steps in a small, rugged design. The graceful appearance of the eyelid effectively shields against glare, while the small aperture allows excellent forward projection with even illumination side to side. Pair with our LSW8-PL to provide design continuity, uniform spacing and light levels in the absence of a structure.

See LSW16 and LSW4 for additional size and wattage options.

Features Include:

- 1.25 Watts and up to 38 lumens
- Cree XP-L® High Density LED
- 2700K or 3000K (CRI 80 typ.)
- Interchangeable UV & Shock Resistant Silicone Optic
- Thermally Integrated®, Field Serviceable LED Module
- TRIAC Dimming to <10% typ.
- 12 VAC Electronic or Magnetic
- IC Rated for interior and exterior use
- Copper and Brass Body w/ Brass or Copper Faceplate

Powered by CREE LEDs

12V

FACEPLATE OPTIONS



SQ-BR-NAT CU-NAT BR-NI CU-BLP

ORDERING GUIDE: Prefix **LSW8** L (LED) SW (STEP/WALL LIGHT) 8 (8 X 1/8 INCHES)

INDICATES REQUIRED FIELD ▭ INDICATES OPTIONAL FIELD

FACEPLATE
[BR] Brass
[SQ-BR] Square Brass*
[CU] Copper
*Available as Brass Only, NOT compatible with "FM" Option

OPTIC
[N] 15° Narrow
[M] 25° Medium
[W] 40° Wide
[WF] 60° Wide Flood
[A] All Optics Kit

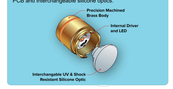
LENS
[F] Frosted
[C] Clear
[DL] Black Dipped Lens

LED COLOR
[27] 2700K, 80CRI
[30] 3000K, 80CRI
[AMB] Amber (585-595 nm)
NOTE: For other CCT and CRI options, contact factory

MOUNT
[R] Rear Conduit Entry
[S] Side Conduit Entry
[R-FM] Rear Conduit Entry w/ Flush Mount (mud ring)**
[S-FM] Side Conduit Entry w/ Flush Mount (mud ring)**
** Available as Brass only

FINISH
[NAT] Natural
[BLP] Bronze Living Patina
[BLP-XD] BLP Extra Dark
[NI] Nickel PVD (BR)

Highly Configurable Machined Brass LED Module
IP67 sealed module with encapsulated electronics, Copper PCB and interchangeable silicone optics.





CARLSBAD, CA | PHONE 877 942 1179 | FAX 760 931 2916 | E-MAIL SALES@AURORALIGHT.COM | AURORALIGHT.COM
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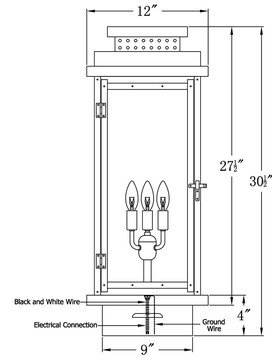
2 WALL LIGHT FIXTURE
L7.01 SCALE: N/A

CONTEMPO 31 Electric With Copper Pier Mount (CO-31E CPM-6)



THECOPPERSMITH.NET

The CopperSmith		
Product Description	Drawing Description	9152 Hard Drive
Sockets:3-E12 Candelabra	REV:A/0	Foley Alabama 36536
Watts:3-60W	Date:03/07/2022	SKU Number:CO-31E
	Drawing by:Jason Huang	Product Name:Contempo 31 Electric

3 ELECTRIC LANTERN FIXTURE, PIER MOUNT
L7.01 SCALE: N/A

COASTAL SOURCE®

NICHE 90° MARKER LIGHT - SHORT THROW

The Niche Light is an incredibly useful and flexible micro size series of fixtures that serve many desirable applications. Our LED module with CMC cable is the core of this line, with six different trim styles and multiple finishes make this the most versatile fixture line in the market.

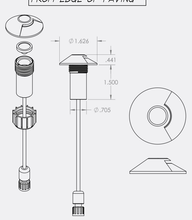
Design it into places where discrete lighting is required and where conventional fixtures would be out of place, too bright and intrusive.

The Coastal Source Niche Light family: Small, Beautiful and Effective!



VINTAGE
WHITE
NICKEL

TO BE INSTALLED 3" FROM EDGE OF PAVING



NICHE 90° MARKER LIGHT SPECIFICATIONS

Size: 1.9441in (L) x 1.626in (Ø)
Weight: 4.0 oz
Construction: Solid Brass
Voltage: 10-18V
Finish: Vintage Brass, White, Nickel
Shroud: 90° Marker with Gasket
Lamp: LED Module
Wattage: 3 Watts (120lm)
Color Temperature: 2700K, 3000K
Lens: 30° lens (installed), clear & frosted flat lenses also included
Fixture Connector: CMC Male Direct Connector
Wiring: 18" CMC Pigtail (included)
Warranty: LED Module and Specialty Finishes (5 Years) Brass Parts (Lifetime*)

75865
QUALIFIED
QE.BL.NOMED
10-(2).1a.,3b1-B
E 518

OUTDOOR **LIGHTING** AND AUDIO
[ENGINEERED] **FOR LIFE**

coastalsource.com

4 PATH LIGHT IN PAVING FIXTURE
L7.01 SCALE: N/A

U OF A ALPHA PHI HOUSE

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Fayetteville, AR 72701

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WER Architects/Planners
545 W. Center St
Fayetteville, AR 72701
479.966.4477
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www.prigm.com

OWNER
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1985 S. Josephine St.
Denver, CO 80210

Seal

NOT FOR CONSTRUCTION

100% CONSTRUCTION DOCUMENT

MICHAEL ARTHUR DUKE — REGISTERED LANDSCAPE ARCHITECT — #457

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

LANDSCAPE LIGHTING SCHEDULE

Sheet No.
L7.01

SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Section 1705 of 2021 IBC. An independent testing agency shall be employed to provide Special Inspections during construction on the types of work listed under Section 1705. The following areas of work require Special Inspections in accordance with 2021 IBC.
2. Refer to project specification for additional quality control/quality assurance requirements.
3. Construction Manager/Contractor shall coordinate any additional Special Inspection requirements with the Owner and applicable building authorities.
4. **Special Inspections are not the responsibility of the Structural Engineer of Record.**
5. **Special Inspections shall be paid for directly by the Owner or Owner's Agent.**
6. **Copies of all Special Inspections Reports shall be emailed to the SEOR Brianna L. Ovuoba, Ph.D., P.E., (blo@tswstructural.com) within seven (7) calendar days of completing the individual inspection(s).**

STRUCTURAL STEEL

(IBC 1705.2.1, 1705.13.1 & 1705.14.1)

PRIOR TO WELDING (TABLE N5.4-1, AISC 360-16; TABLE J6-1, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify welding procedures (WPS) and manufacturer certifications for welding consumable available	X	-----	----
Verify type and grade of material.	-----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welder identification	-----	X	A system shall be maintained by which a welder who has welded a joint or member can be identified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up groove welds	-----	X	Verify joint preparation, dimensions, cleanliness, tacking, and backing. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Access holes	-----	X	Verify configuration and finish. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fit-up of fillet welds	-----	X	Verify dimensions, cleanliness, and tacking. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Check welding equipment	-----	X	-----
Welder qualification records and continuity records	-----	X	-----

DURING WELDING (TABLE N5.4-2, AISC 360-16; TABLE J6-2, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Use of qualified welders	-----	X	Verify that welders are appropriately qualified. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Control and handling of welding consumables	-----	X	Verify packaging and exposure control. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Cracked tack welds	-----	X	Verify welding does not occur over cracked tack welds. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Environmental conditions	-----	X	Verify wind speed within limits, precipitation and temperature. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
WPS followed	-----	X	Verify settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Welding techniques	-----	X	Verify interpass and final cleaning, each pass within profile limitations, and quality of each pass. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Steel headed stud anchors	-----	X	Verify placement and installation.

AFTER WELDING (TABLE N5.4-3, AISC 360-16; TABLE J6-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Welds cleaned	-----	X	Verify welds properly cleaned. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Size, length, and location of welds	X	-----	-----
Welds meet visual acceptance criteria	X	-----	Verify crack prohibition, weld/base metal fusion, crater cross section, weld profiles, weld size, undercut, and porosity meet visual acceptance criteria.
Arc strikes	X	-----	-----
k-area	X	-----	-----
Backing & weld tabs removed and finished, and fillet welds added (if required)	X	-----	-----
Repair activities	X	-----	-----
Document acceptance or rejection of welded joint/member	X	-----	-----
Placement of reinforcing or contouring fillet welds	X	-----	Only required in components of seismic force resisting system.
Weld access holes	-----	X	After rolled heavy shapes are welded, visually inspect the weld access hole for cracks.
Prohibited welds	X	-----	Verify no prohibited welds have been added without approval of the EOR.

STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (TABLES J9-1 thru J9-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Reinforcing steel	-----	X	Verify appropriate reinforcement size, type, grade, spacing, and orientation; not re-bent in field; correctly tied and supported; and required steel clearances provided. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Composite member size	-----	X	Verify required size. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

OTHER STEEL INSPECTIONS (SECTION N5.7 & N5.8, AISC 360-16; TABLES J8-1 & J10-1, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Structural steel details (fabricated steel or steel frames)	-----	X	Verify compliance with the details in construction documents in items including; braces, stiffeners, member locations, and proper application of joint details at each connection. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Anchor rods and other embedments supporting structural steel	-----	X	Verify compliance with construction documents. Verify diameter, grade, type, length of anchor rod or embedded item, and extent or depth of embedment prior to placement of concrete. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Reduced beam sections (RBS)	X	-----	For seismic force resisting system components: Verify contour and finish as well as dimensional tolerances.
Protected zones	X	-----	For seismic force resisting system components: Verify that no holes or unapproved attachments are made within the protected zone.
H-piles	X	-----	For seismic force resisting system components: Verify that no holes or unapproved attachments occur within the protected zones of piling.
Galvanized structural steel	-----	X	Verify exposed cut surfaces of galvanized structural steel main members and exposed corners of rectangular HSS have no cracks subsequent to galvanizing.

STRUCTURAL STEEL (CONT.)

(IBC 1705.2.1, 1705.13.1, & 1705.14.1)

PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-16; TABLE J7-1, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Manufacturer's certifications	X	-----	Verify certifications available for fastener materials.
Fasteners marked	-----	X	Verify marked in accordance with ASTM requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener selection	-----	X	Verify proper selection for joint detail including grade, type, and bolt length if threads excluded from shear plane. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Bolting procedure	-----	X	Verify proper bolting procedure selected for joint detail. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Connecting surfaces	-----	X	Verify connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pre-installation verification testing by installation personnel	X	-----	Observe and document for fastener assemblies and methods used.
Fastener storage	-----	X	Verify proper storage provided for bolts, nuts, washers, and other fastener components. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

DURING BOLTING (TABLE N5.6-2, AISC 360-16; TABLE J7-2, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Position of fasteners	-----	X	Verify fastener assemblies, of suitable condition, are placed in all holes and washers, if required, are positioned as required. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Joint brought into snug-tight condition prior to the pretensioning operation	-----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Fastener components not turned by the wrench are prevented from rotating	-----	X	For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.
Pretensioning of fasteners	-----	X	Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges. For components of seismic force resisting system, perform on a random, daily basis per AISC 341-16 Section J5.1.

AFTER BOLTING (TABLE N5.6-3, AISC 360-16; TABLE J7-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Document acceptance or rejection of bolted connections	X	-----	-----

NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-16; SECTION J6, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
CJP welds (Risk Cat. II)	-----	X	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if >5% of welds tested have unacceptable defects. See AISC 360-16 Section N5.5f for increase requirements.
CJP welds (Risk Cat. III or IV)	X	-----	Ultrasonic testing shall be performed on all CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints, in materials 5/16-inch thick or greater. See AISC 360-16 Section N5.5e for reduction in rate of ultrasonic testing.
Welded joints subject to fatigue	X	-----	----
Document all nondestructive testing	X	-----	Verify record indicates basis of rejection and location of defect for all rejected welds.
k-area	X	-----	For components of seismic force resisting system: Perform magnetic particle testing for cracks where welding of doubler plates, continuity plates, or stiffeners has been performed in the k-area. Testing area shall include the k-area base metal within 3 inches of weld. Inspection shall be performed no sooner than 48 hours following completion of welding.
CJP groove welds (all components of seismic force resisting system)	X	-----	Ultrasonic testing shall be performed on 100% of CJP groove welds in materials 5/16-inch thick or greater. Magnetic particle testing shall be performed on 25% of all beam-to-column CJP groove welds. See AWS D1.1/D1.1M Table 6.2 for acceptance/ rejection criteria. See Sections J6-2g and J6-2h in AISC 341-16 for potential reduction in the rate of magnetic particle and ultrasonic testing.
Base metal (>1 1/2")	X	-----	For components of seismic force resisting system: Ultrasonic testing for discontinuities shall be performed, after joint completion, behind and adjacent to fusion line of CJP groove welds where base metal (>1 1/2") is loaded in tension in through-thickness direction in T- and corner joints and the connection material is >3/4" thick. See AWS D1.1/D1.1M Table 6.2 for acceptance/ rejection criteria.
Beam cope and access holes (flange >1 1/2" for rolled shapes, web thickness >1 1/2" for built-up sections)	X	-----	For components of seismic force resisting system: Magnetic particle testing or penetrant testing shall be performed.
Reduced beam section repair	X	-----	For components of seismic force resisting system: Magnetic particle testing shall be performed on any weld and adjacent area of the reduced beam section cut surface that has been repaired by welding, or on the base metal of the reduced beam section cut surface if sharp notch has been removed by grinding.
Weld tab removal sites	X	-----	For components of seismic force resisting system: Magnetic particle testing shall be performed on same beam-to-column joints receiving ultrasonic testing under the CJP groove welds for components of seismic force resisting system listed in this table. See Section J6-2f and Section J6-2b of AISC 341-16 for reference. See Sections J6-2g and J6-2h in AISC 341-16 for potential reduction in the rate of magnetic particle and ultrasonic testing.

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL

(IBC 1705.2)

STEEL ROOF AND FLOOR DECKS (IBC TABLE 1705.2.2/SDI QA/QC 6.1)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Material verification of cold-formed steel deck	-----	X	Verify deck materials are represented by appropriate mill certifications.
Floor and roof deck welding	-----	X	Verify weld meets acceptance criteria of AWS D.3. Verify welder qualifications.
Floor and deck mechanical fasteners	-----	X	Verify fastener installation in accordance with SDI.
Deck installation	-----	X	Verify deck installation in accordance with applicable drawings and documents.

WELDING OF REINFORCING STEEL (IBC 1705.3.1, TABLE 1705.3)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verification of weldability	-----	X	Verify weldability of reinforcing steel other than ASTM A706 in accordance with AWS D1.4.
Inspect single pass fillet welds, max 5/16"	-----	X	Verify weld meets acceptance criteria of AWS D1.4.
Inspect all other welds	X	-----	Verify weld meets acceptance criteria of AWS D1.4.

COLD-FORMED STEEL CONSTRUCTION (IBC 1705.2.2, 1705.2.4, 1705.12.2, & 1705.13.3)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Trusses spanning > 60-feet	-----	X	Verify temporary and permanent truss bracing is installed in accordance with approved truss package.
Welding in wind-force-resisting systems or seismic-force-resisting systems	-----	X	Verify proper screw attachment, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, shear panels and holdowns. See IBC 1705.12.2 for exceptions.
Floor and roof deck welds	-----	X	Verify weld meets acceptance criteria of SDI QA/QC. Verify welder qualifications.

CONCRETE CONSTRUCTION

(IBC 1705.3; TABLES J9-2 & J9-3, AISC 341-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Reinforcing steel, including prestressing tendons	-----	X	Verify, prior to placing concrete, reinforcing is of specified type, grade and size; free of oil, dirt and rust; located and spaced properly; hooks, bends, ties, stirrups and supplemental reinforcement placed correctly; lap lengths, stagger and offsets provided; and all mechanical connections installed per the manufacturer's instructions and/or evaluation report.
Cast-in anchors	-----	X	Verify anchor installation complies with ACI 318: 17.8.2.
Post-installed anchors	-----	X	All post-installed anchors shall be specially inspected as required by the approved ICC-ES report. Anchors installed horizontally or in upwardly inclined orientations to resist tension loads require continuous inspection per ACI 318:17.8.2.4. Verify all other mechanical and adhesive anchors comply with ACI 318: 17.8.2.
Use of required mix design	-----	X	Verify mixes comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3, 26.4.4 and IBC 1904.1, 1904.2.
Concrete sampling for strength tests, slump, air content, and temperature	X	-----	Verify sampling in accordance with ASTM C172 and ASTM C31. See ACI 318: 26.12 for evaluation and acceptance of concrete. See ACI 318: 26.5 for mixing requirements of concrete.
Concrete & shotcrete placement	X	-----	Verify proper application techniques. See ACI 318: 26.5.
Curing temperature and techniques	-----	X	Verify concrete surface temperature (other than high-early-strength) is kept >50°F in moist condition for at least 7 days after placement unless accelerated curing is used. High-early-strength concrete shall be kept >50°F in moist condition for at least 3 days unless accelerated curing is used. Verify compliance with cold weather requirements in ACI 318: 26.5.4 or hot weather requirements in ACI 318: 26.5.5, whichever is applicable.
Pre-stressed concrete	X	-----	Verify application of prestressing force and grouting of bonded prestressing tendons in accordance with ACI 318: 26.10.
Erection of precast concrete	-----	X	Verify all precast elements are lifted, assembled and braced in accordance with the approved construction documents. See ACI 318: 26.9.
Strength verification	-----	X	Verify adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons. See ACI 318: 26.11.2.
Formwork	-----	X	Verify forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents. See ACI 318: 26.11.1.2.
Limits on water added at the truck or pump	-----	X	Verify during concrete placement. Applicable to composite construction in seismic force resisting system components. Perform on a random daily basis per AISC 341-16 Section J5.1. See Table J9-2, AISC 341-16.
Proper placement techniques to limit segregation	-----	X	Verify during concrete placement. Applicable to composite construction in seismic force resisting system components. Perform on a random daily basis per AISC 341-16 Section J5.1. See Table J9-2, AISC 341-16.
Verify installation of the embedded parts, completion of the continuity of reinforcement across joints, and completion of connections in the field	X	-----	For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to seismic design category C, D, E, or F. See ACI 318:26.13.1.3 and ACI 550.5.
Verify installation tolerances of precast concrete diaphragm connections	-----	X	See ACI 550.5 for compliance.

WOOD CONSTRUCTION

(IBC 1705.5, 1705.12.1 & 1705.13.2)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
High-load diaphragms	-----	X	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans. See IBC 1705.5.1.
Wood trusses spanning >60 ft.	-----	X	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package.
Structural wood	-----	X	If fastener spacing is < 4"o.c.: Verify that proper nailing, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, and holdowns. Continuous inspection required during field gluing of elements.
Review procedures for completeness and adequacy relative to the Code requirements for the fabricators scope of work	-----	X	-----

INSPECTION OF FABRICATORS

(IBC 1704.2)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify fabricator maintains detailed fabrication and quality control procedures	-----	X	See IBC 1704.2.5.1.
Submittal of certificate of compliance	-----	X	Where work is done on premises of "Approved" fabricator. Fabricator shall submit a Certificate of Compliance to the building official stating work was performed in accordance with the approved construction documents. See IBC 1704.2.5.1.

SOILS CONSTRUCTION

(IBC 1705.6)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verify subgrade is adequate to achieve design bearing capacity	-----	X	Prior to placement of concrete; per Geotechnical Report.
Verify excavations extend to proper depth and material	-----	X	Prior to placement of compacted fill or concrete; per Geotechnical Report
Verify subgrade has been appropriately prepared prior to placing compacted fill	-----	X	Prior to placement of compacted fill; per Geotechnical Report
Perform classification and testing of compacted fill materials	-----	X	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000 sq ft. of surface area unless otherwise noted; per Geotechnical Report
Verify proper materials, densities and lift thicknesses	X	-----	During placement and compaction on compacted fill; per Geotechnical Report

MASONRY CONSTRUCTION

(IBC 1705.4)

PRIOR TO CONSTRUCTION (ARTICLE 1.5, TMS-602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Review material certificates, mix designs, test results and construction procedures	-----	X	Verify materials conform to requirements of approved construction documents. Mix design, test results, material certificates, and construction procedures submitted for review. Mortar mix designs conform to ASTM C 270; grout conforms to ASTM C 476. Material certificates provided for: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction reviewed. Qualification of field testing personnel, and special inspector reviewed.

AS CONSTRUCTION BEGINS (TABLE 4, TMS-602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Proportions of site-prepared mortar	-----	X	Verify mortar is type and color specified on construction documents, conforms to ASTM C 270, and is mixed in accordance with Article 2.6 A and Article 2.6 C of TMS 602-16.
Grade and size of prestressing tendons and anchorages	-----	X	Verify prestressing tendons comply with Article 2.4 B of TMS-602-16 and anchorages, couplers, and end blocks comply with Article 2.4 H.
Grade, type, and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages	-----	X	Verify reinforcement is placed in accordance with Article 3.4 of TMS-602-16. Prestressing tendons placed per Article 3.6 A.
Prestressing technique	-----	X	Verify prestressing technique complies with Article 3.6 B of TMS-602-16.
Properties of thin-bed mortar for AAC masonry	-----	X	Verify mortar complies with Article 2.1 C of TMS-602-16. Continuous inspection required for first 5000 sqft. of AAC masonry. Periodic inspection required thereafter.
Sample panel construction	-----	X	Verify sample panel complies with Article 1.6 D of TMS-602-16.

DURING MASONRY CONSTRUCTION (TABLE 4, TMS-602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Size and location of structural elements	-----	X	Verify locations of structural elements comply with approved plans. Confirm tolerances meet the requirements of Article 3.3 F of TMS 602-16.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction.	-----	X	Verify anchorages and connections are provided per approved plans, Section 1.2.1(e), 6.1.4.3, and 6.2.1 of TMS 402-16. Continuous inspection required for Risk Category IV buildings.
Welding of reinforcement	X	-----	Verify welded splice has bars butted and welded to develop at least 125% of yield strength of bar in tension or compression. See Section 6.1.6.1.2 of TMS 402-16.
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F).	-----	X	Verify cold-weather construction performed in accordance with Article 1.8.C of TMS 602-16 and hot weather construction per Article 1.8 D of TMS 602-16.
Application and measurement of prestressing force	X	-----	Verify compliance with Article 3.6 B of TMS 602-16.
Placement of grout and prestressing grout for bonded tendons is in compliance	X	-----	Verify placement of grout in compliance with Article 3.5 of TMS 602-16 and grout for bonded tendons in compliance with Article 3.6 C of TMS 602-16.
Placement of AAC masonry units and construction of thin-bed mortar joints	-----	X	Verify mortar is placed in accordance with Articles 3.3 B.9, and 3.3 F.1.b of TMS 602-16. Continuous inspection is required for first 5000sqft. of AAC masonry. Periodic inspection required thereafter.
Observation of preparation of grout specimens, mortar specimens, and/or prisms	-----	X	Confirm specimen/prism preparation performed as required by Article 1.4 of TMS 602-16. Continuous inspection is required for Risk Category IV buildings.
Placement of masonry unit and construction of mortar joints	-----	X	Verify placement in accordance with Article 3.3 B of TMS 602-16.
Materials and procedures with the approved submittals	-----	X	Verify materials and procedures conform to approved submittals. See Article 1.5 of TMS 602-16.

MINIMUM TESTING (TABLE 3, TMS 602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Verification of slump flow and Visual Stability Index (VSI) for self-consolidating grout	-----	X	Compressive strength tests should be performed in accordance with ASTM C 1019; slump flow and VSI performed in accordance with ASTM C 1611.
Verification of f'm and f'AAC	-----	X	Determine compressive strength for each wythe by "unit strength method" or by the "prism test method" as specified in Article 1.4 B of TMS 602-16 prior to construction. For Risk Category IV buildings this should be verified at every 5,000 sq. ft. of construction.
Verification of proportions of materials in grout and premixed or preblended mortar	-----	X	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476. This applies to Risk Category IV buildings only.

PRIOR TO GROUTING (TABLE 4, TMS-602-16)

Verification & Inspection	Continuous	Periodic	Detailed Instructions
Grout space	-----	X	Verify grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602-16. Continuous inspection is required for Risk Category IV buildings.
Placement of prestressing tendons and anchorages	-----	X	Verify reinforcement, cover, and protection of prestressing tendons, Sections 10.8 and 10.9 of TMS 402-16, and Articles 2.4 and 3.6 of TMS 602-16.
Placement of reinforcement, connectors, and anchor bolts	-----	X	Verify reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents, Section 6.1, 6.3.1, 6.3.6, and 6.3.7 of TMS 402-16, and Articles 3.2 E, and 3.4 of TMS 602-16. Continuous inspection is required for Risk Category IV buildings.
Proportions of site-prepared grout and prestressing grout for bonded tendons	-----	X	Verify grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. See Article 2.6 B of TMS 602-16. Verify prestressing grout complies with Article 2.4 G.1.b of TMS 602-16.

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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
BRIANNA L. OVUOBA
No. 19778
12.18.2025

100% CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title REQUIRED IBC SPECIAL INSPECTIONS

Sheet No. **S1.0**

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 228
ARKANSAS ENGINEERING

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STRUCTURAL ENGINEERS
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TSW #: 24198 PM: BLO DE: KDH

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CONSTRUCTION SAFETY GENERAL NOTE

THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TEMPORARY SHORING/BRACING, OR FOR SAFETY PRECAUTIONS AND PROGRAMS, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.

Concrete General Notes 3100:

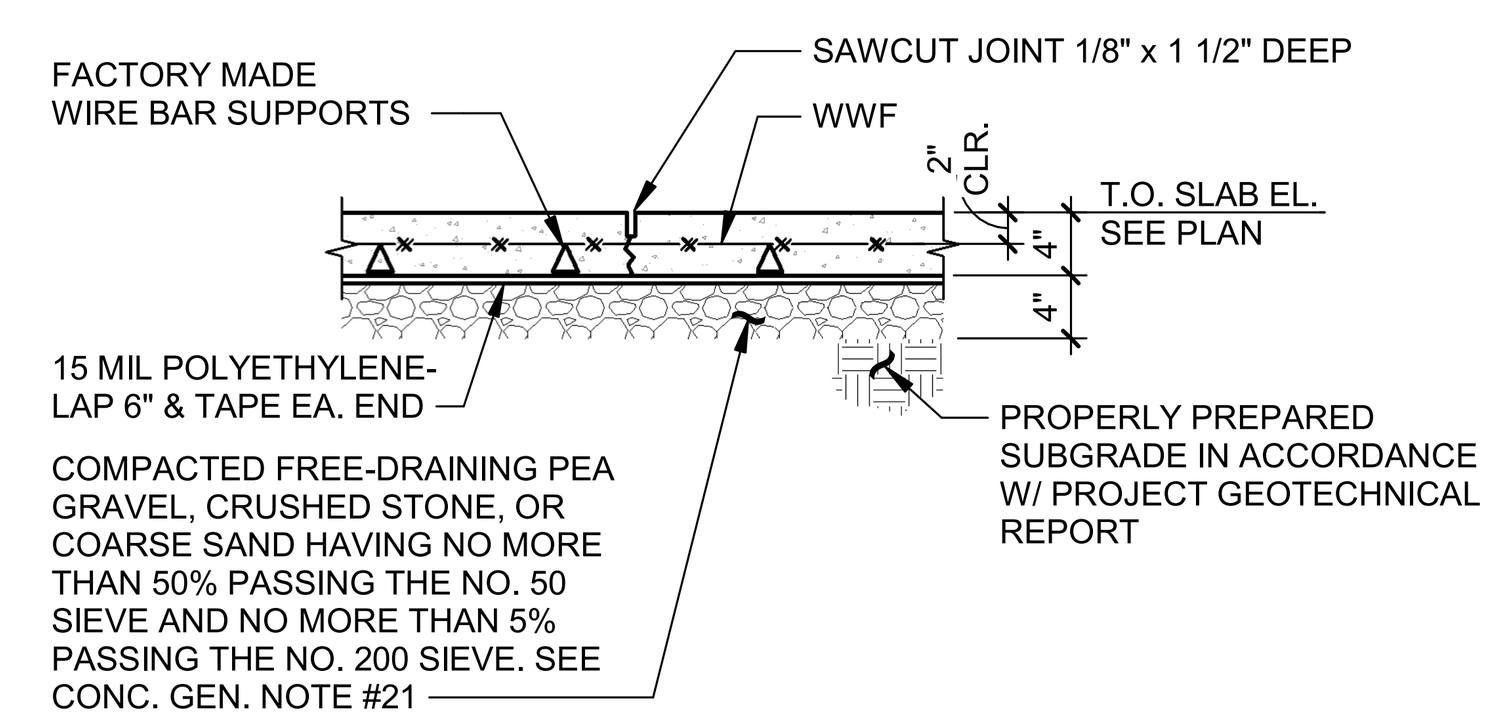
1. All detailing, fabrication and placing of reinforcing steel shall conform to the ACI Standard "Details and Detailing of Concrete Reinforcement" (ACI 315).
2. Concrete at slab-on-grade shall develop a 28-day minimum compressive strength of 3,500 psi and have Ultra Fiber 500 manufactured by Solomon Colors, Inc. mixed into the concrete at 2.0 lb/cubic yard. Follow normal mixing time and speed as recommended by ASTM C94.
3. Concrete at elevated slab on metal deck shall develop a 28-day minimum compressive strength of 3,500 psi. Elevated slab concrete shall be normal weight.
4. All concrete at footings, pedestals and walls shall typically develop a 28-day minimum compressive strength of 3,000 psi.
5. All concrete for footings, walls and slab-on-grade shall have a 5" maximum slump. Concrete at elevated slabs shall have a 4" maximum slump.
6. All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
7. All reinforcing bar splices shall be 44 bar diameters for #6 and smaller diameter bars. Reinforcing bar splices shall be 48 bar diameters for #7 and larger bar diameters.
8. All reinforcing bar hooks shall be ACI standard 90 degree hook, unless noted otherwise.
9. Provide two #4 x 4'-0" long diagonal bars centered in slab, at all re-entrant corners and any other locations designated on the plans.
10. Provide corner bars in footings, concrete stemwall and turn-down slab same size and spacing as longitudinal reinforcing.
11. Provide (1) #4 hoop with 8" lap in slab-on-grade and elevated slab around floor drains, columns and all slab penetrations 3" in diameter or greater. Also install around electrical conduit groupings 3" in diameter or greater.
12. Limit the width of conduit groups to 3'-0" as they pass under wall footings. As much as possible, align the conduit perpendicular to the footing as it passes under the footing. Provide a minimum spacing of 2'-0" between conduit groups as the conduit passes under a footing. **Do not extend conduits under column footings or spread footings**.
13. Plate dowel system shall be Diamond Dowel System by PNA Construction Technologies, the Speed Plate System by SIKA Corp. or approved equal. Install plate dowels at slab construction joints at 18" o.c.
14. Welded wire fabric shall conform to ASTM A1064. Provide mesh in flat sheets.
15. Wire fabric reinforcing shall lap 6" and be securely wired at each side and end.
16. Smooth dowels shall be steel conforming to ASTM A36.
17. All slots, sleeves and other embedded items shall be set before concrete is placed. See Architectural, Electrical, Mechanical, and Vendor's drawings for size and locations.
18. Bar supports at footings, slabs-on-grade and elevated slabs shall be factory made wire bar supports, type "SBU" linear supports.
19. Epoxy for doweling reinforcement shall be HY-200 by Hilti, AT 3G by Simpson Strong-Tie or AC200+ by Dewalt, unless noted otherwise.
20. Maximum net allowable bearing pressure = 2,300 psf. for continuous footings and 2,500 psf for isolated spread footings. Footings shall bear on one foot of properly compacted and moisture-conditioned select fill materials placed on suitable in-situ materials as described in the Soils Report No. 25-3804 dated March 20, 2025 by McClelland Consulting Engineers, Inc.
21. Use of compacted, free-draining pea gravel, crushed stone, or coarse sand underneath the building slab is recommended by TSW, Inc. Consult Geotechnical Engineer regarding potential substitution of free-draining coarse materials with approved subgrade. Slabs-On-Grade have been designed for a modulus of subgrade reaction (k-value) of 100 psi/in.

Concrete Masonry General Notes 4100:

1. All concrete masonry units shall be lightweight above finished floor and normal weight below grade. All hollow concrete masonry units shall conform to ASTM C90, Grade N, Type 1 with a minimum ultimate compressive prism strength (f'm) of 2,000 psi for the masonry assemblage. All concrete masonry shall be laid in Running (Common) Bond.
2. Mortar at exterior walls, all load-bearing walls, walls below grade and non-load-bearing walls higher than 20'-0" shall be Type S mortar and have a minimum compressive strength of 1,800 psi. Mortar at interior non-load-bearing walls not higher than 20'-0" and mortar at masonry veneer shall be Type N mortar and have a minimum compressive strength of 750 psi. All mortar shall conform to ASTM C270. Masonry cement shall not be used for mortar.
3. All grout shall be ready-mix concrete, with 3/8" diameter max. aggregate, have a minimum 28-day compressive strength of 2,000 psi and a design slump between 8" to 10".
4. All 8" CMU bond beam units shall be reinforced with one bar. See Masonry Wall Reinforcement Schedule on Drawing S3.0 for size of bars for vertical wall reinforcement and bond beam requirements. Provide corner bars and lap bond beam reinforcing 48 bar diameters.
5. All reinforcing steel shall be deformed bars conforming to ASTM A615, Grade 60.
6. All bolts, anchors, reinforcement and embedded items shall be grouted in place.
7. All reinforcing bar splices shall be 48 bar diameters, U.N.O.
8. At all 8" CMU walls except at interior non-load bearing walls, provide (1) vertical bar each cell for the first (2) cells adjacent to control joints in walls, at ends of walls, wall corners and on each side of wall openings, unless noted otherwise. Vertical bars shall match reinforcement for remainder of wall. See Masonry Wall Reinforcement Schedule on Drawing S3.0 for size of reinforcement.
9. Provide control joints in brick veneer where shown on Architectural Drawings.
10. Provide control joints in CMU walls where shown on Architectural Drawings. Place joints for CMU walls max. 24'-0" o.c.
11. Provide horizontal joint reinforcement at 16" o.c. Reinforcement shall be ladder design, min. 9 gage welded steel wire, hot dipped galvanized to 1.5 oz. width shall be 1 1/2" less than wall thickness.

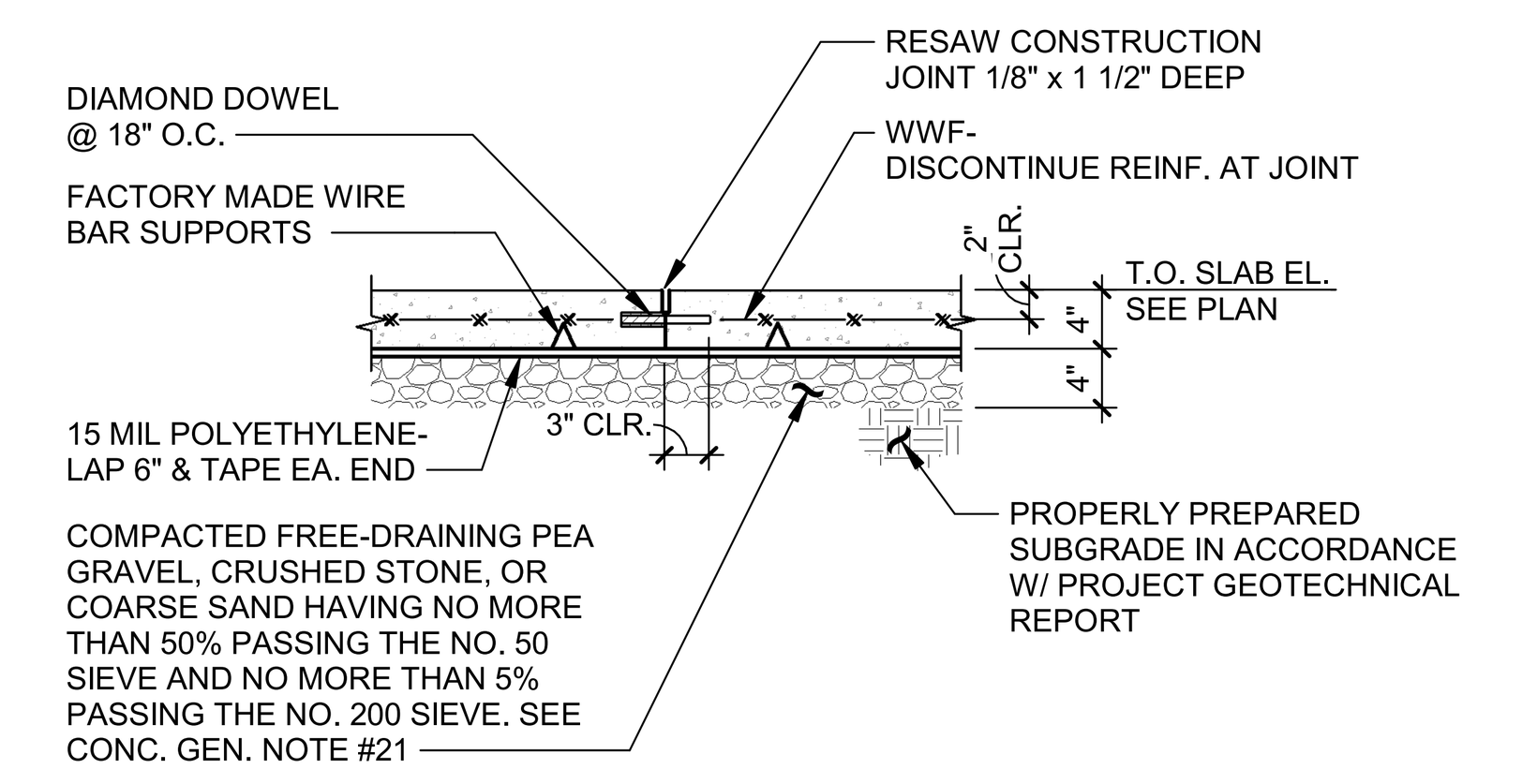
NOTE:
ARCHITECT MUST APPROVE USE OF CONTROL AND CONSTRUCTION JOINTS BEFORE SLAB CONSTRUCTION BEGINS. TYPICAL SLAB CJ SHALL BE CONSTRUCTION JOINT DETAIL.

NOTE:
COORDINATE EXACT LOCATION AND LIMITS OF POLISHED CONCRETE WITH ARCHITECTURAL DWGS.



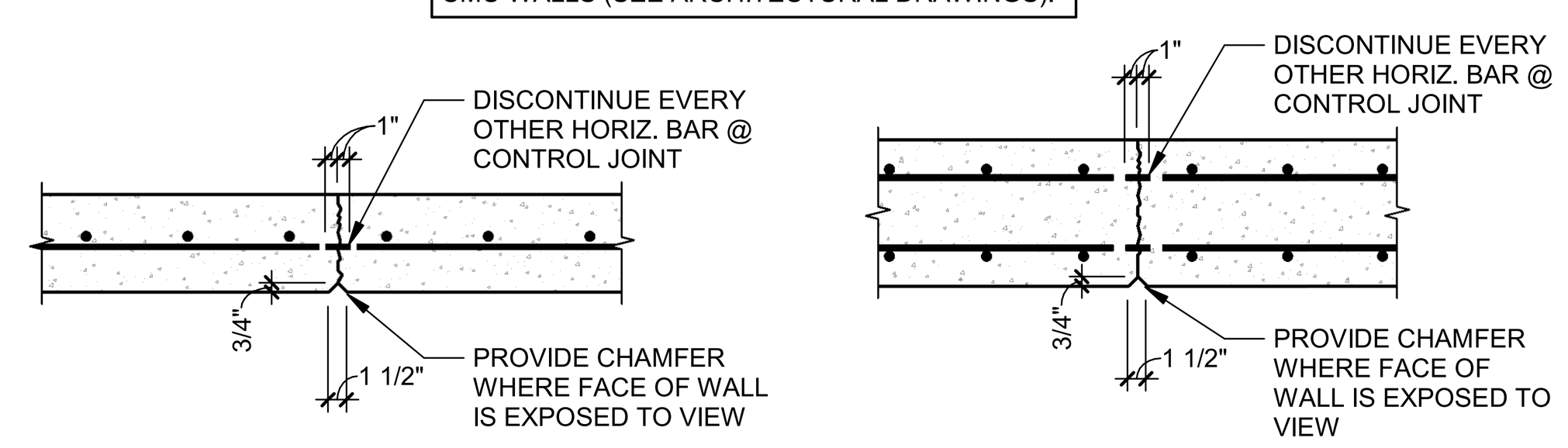
1 TYP. SLAB-ON-GRADE CONTROL JT. DTL. (CJ)
NOT TO SCALE

NOTE:
PROVIDE DIAMOND DOWEL SYSTEM AS MANUFACTURED BY PNA CONSTRUCTION TECHNOLOGIES OR THE SPEED SYSTEM BY SIKA CORPORATION AT CONSTRUCTION JOINTS IN ALL FLOOR AREAS. COORD. WITH ARCHITECTURE FOR CONSTRUCTION JOINT LOCATIONS.



2 TYP. SLAB-ON-GRADE CONSTRUCTION JT. DTL. (CJ)
NOT TO SCALE

NOTE:
LOCATE CONTROL JOINT AT 24'-0" O.C. MAXIMUM. COORDINATE LOCATION OF CONTROL JOINTS IN CONCRETE WALL WITH LOCATION OF CONTROL JOINTS IN VENEER AND CMU WALLS (SEE ARCHITECTURAL DRAWINGS).

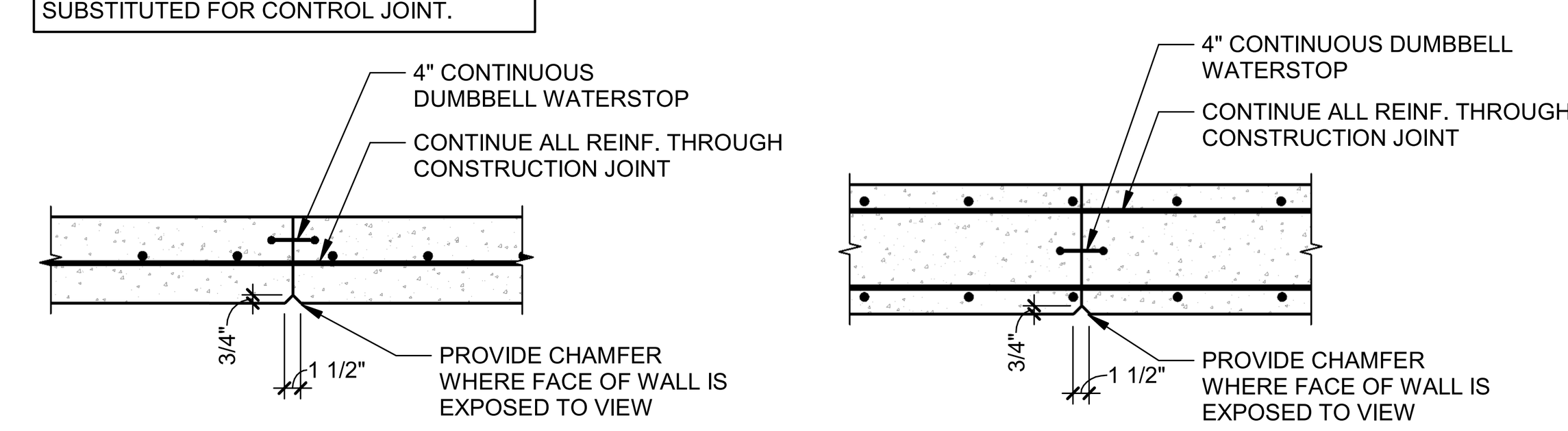


SINGLE LAYER REINF. CONC. WALL

DOUBLE LAYER REINF. CONC. WALL

3 TYP. CONCRETE WALL CONTROL JT. DTL.
NOT TO SCALE

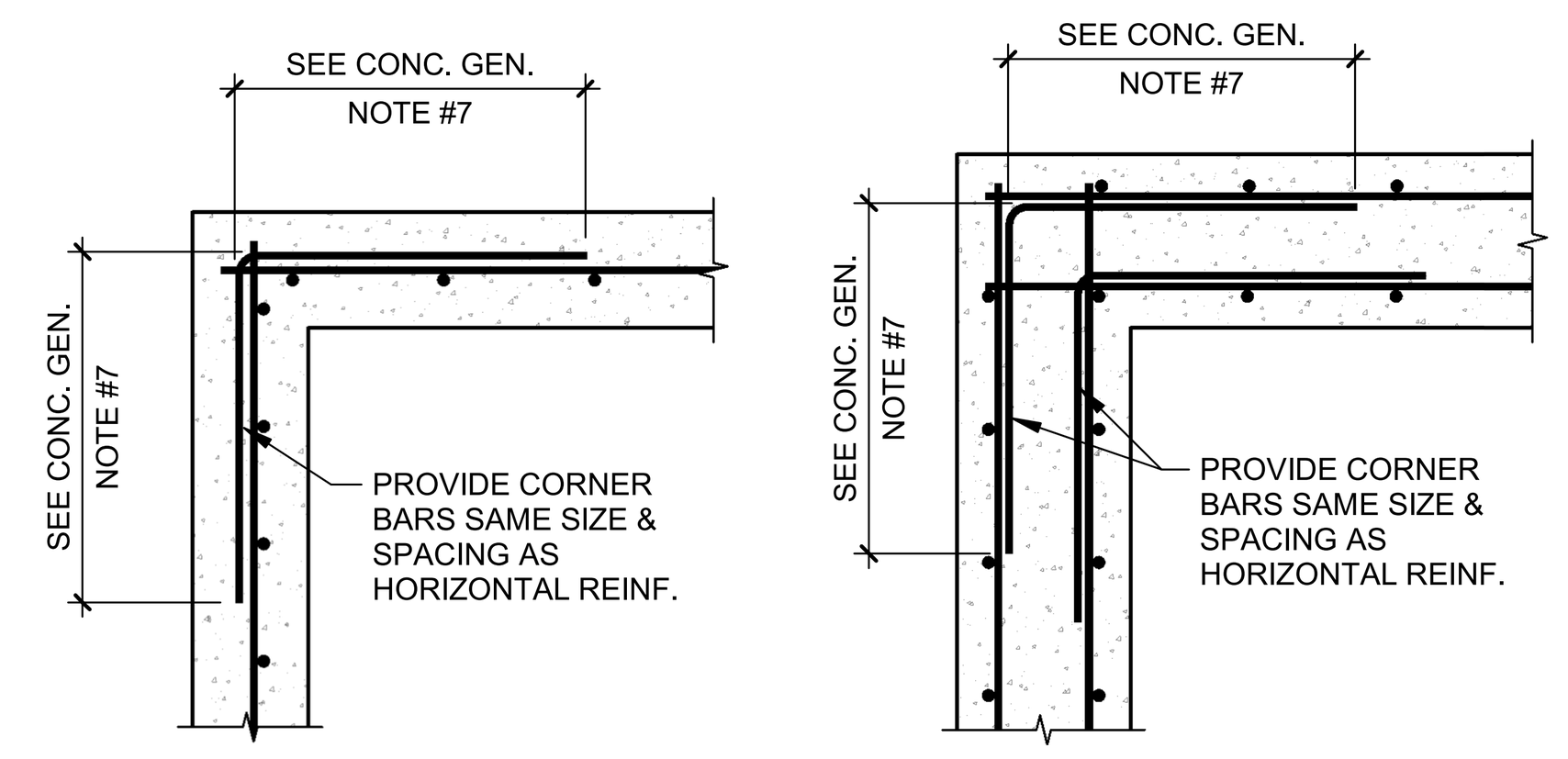
NOTE:
CONSTRUCTION JOINT MAY BE SUBSTITUTED FOR CONTROL JOINT.



SINGLE LAYER REINF. CONC. WALL

DOUBLE LAYER REINF. CONC. WALL

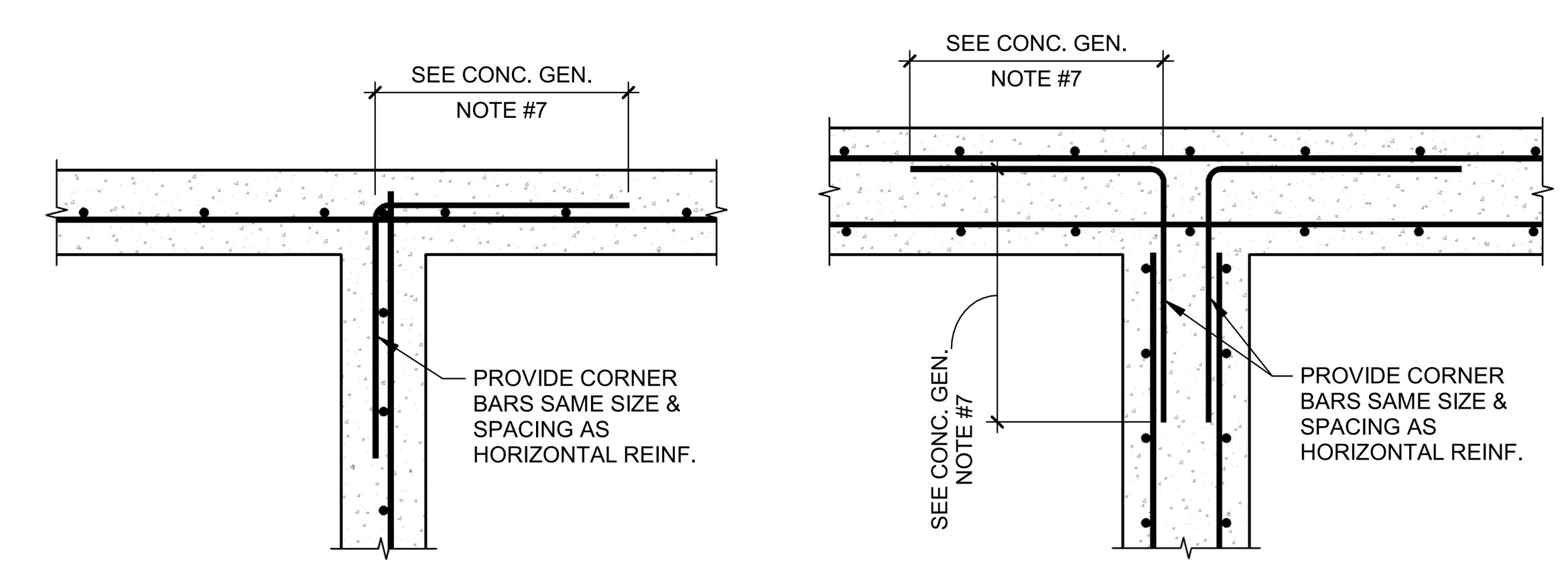
4 TYP. CONCRETE WALL CONSTRUCTION JT. DTL.
NOT TO SCALE



SINGLE LAYER REINF. CONC. WALL

DOUBLE LAYER REINF. CONC. WALL

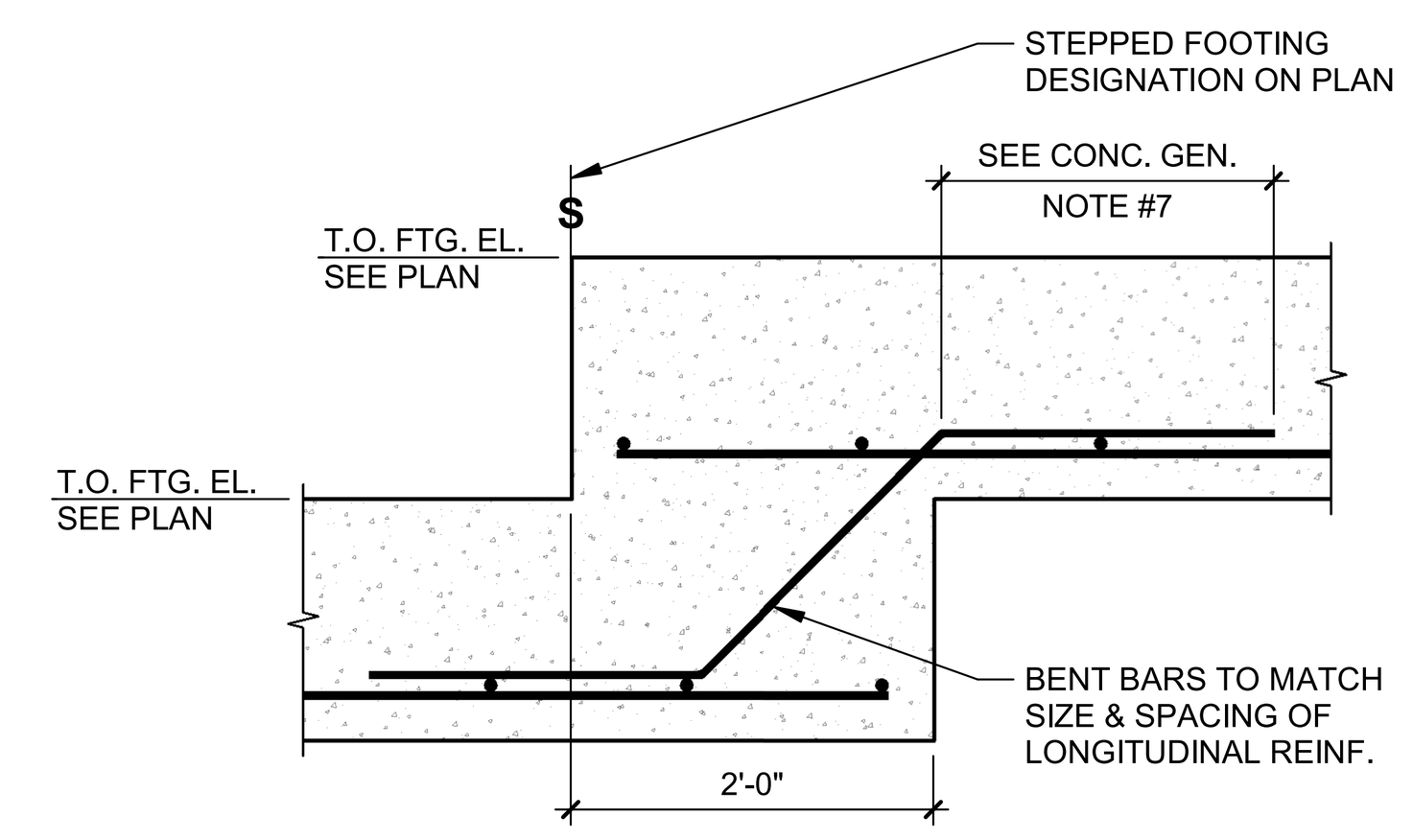
5 TYP. CONCRETE WALL CORNER DETAIL
NOT TO SCALE



SINGLE LAYER REINF. CONC. WALL

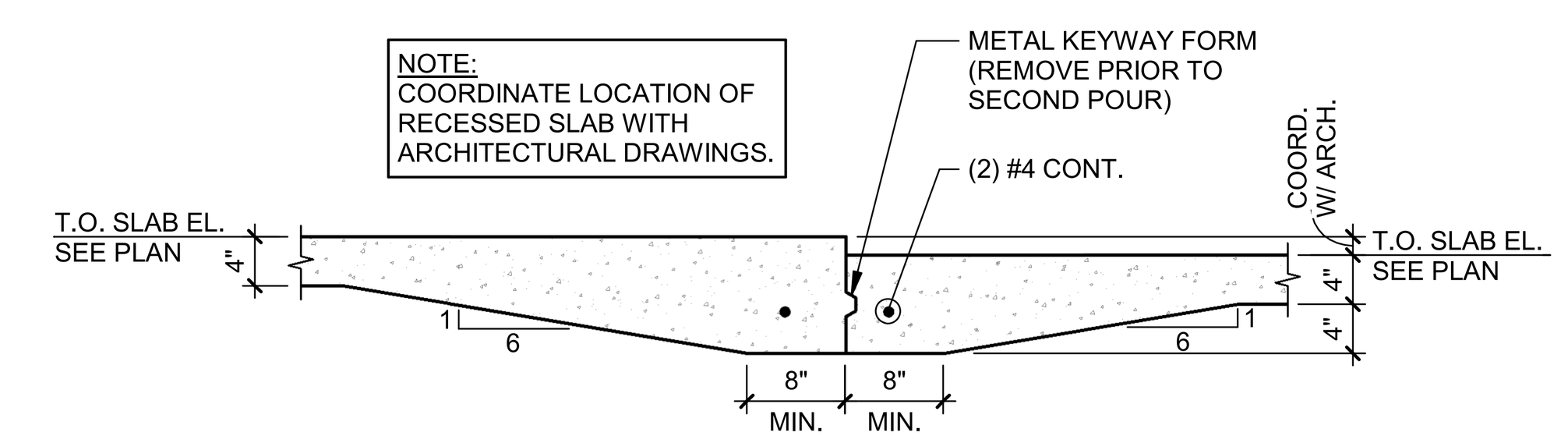
DOUBLE LAYER REINF. CONC. WALL

6 TYP. CONCRETE WALL CORNER DETAILS
NOT TO SCALE



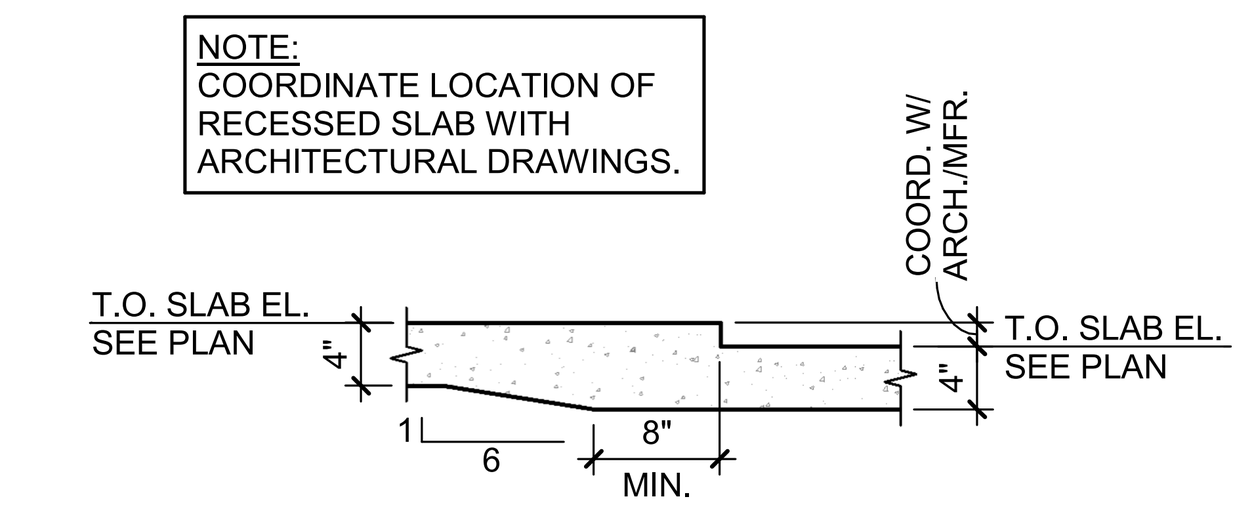
7 TYP. STEPPED FOOTING DETAIL
NOT TO SCALE

NOTE:
COORDINATE LOCATION OF RECESSED SLAB WITH ARCHITECTURAL DRAWINGS.

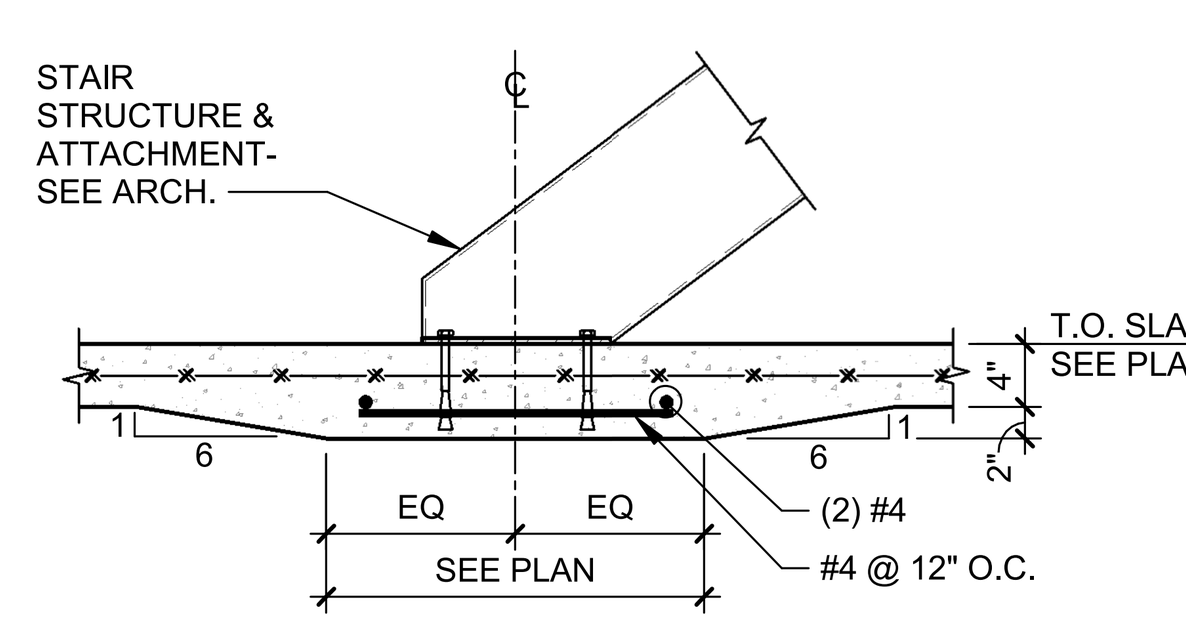


8 TYP. RECESSED SLAB
NOT TO SCALE

NOTE:
COORDINATE LOCATION OF RECESSED SLAB WITH ARCHITECTURAL DRAWINGS.

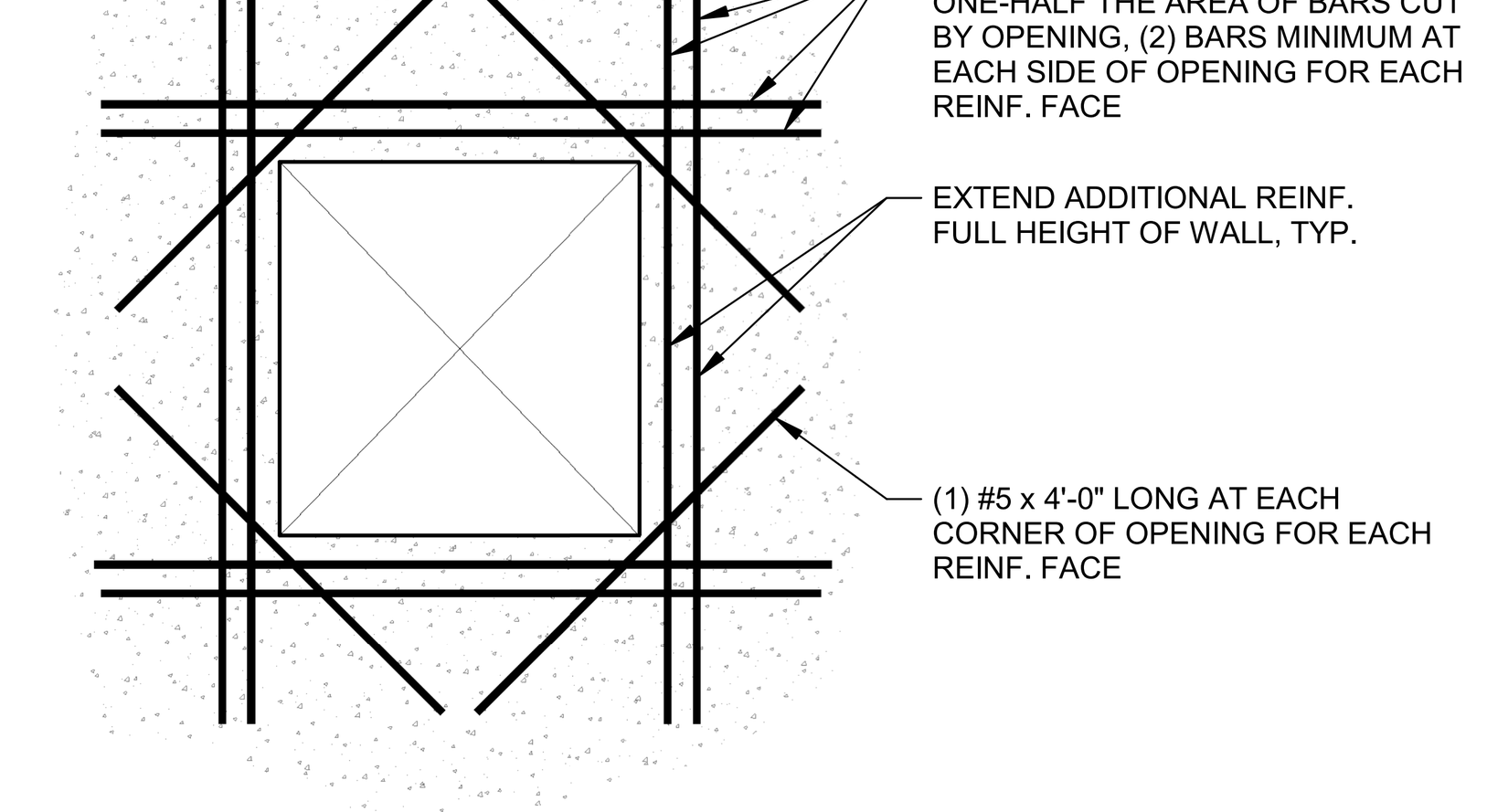


9 TYP. RECESSED SLAB
NOT TO SCALE



10 TYP. THICKENED SLAB @ STAIR ATTACHMENT
NOT TO SCALE

NOTE:
SEE TYP. STORM SHELTER PROTECTED OPENING DETAIL FOR STORM SHELTER OPENINGS.



11 TYP. CONCRETE WALL OPNG. DETAIL
NOT TO SCALE

TYPICAL STRUCTURAL ABBREVIATIONS

A.R.	ANCHOR ROD	F.V.	FIELD VERIFY	PLF	POUNDS PER FOOT
ACI	AMERICAN CONCRETE INSTITUTE	FDN	FOUNDATION	PROJ	PROJECTION
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FIN	FINISH	PSF	POUNDS PER SQUARE FOOT
ARCH	ARCHITECT	FLR	FLOOR	PSI	POUNDS PER SQUARE INCH
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FTG	FOOTING	R	RADIUS
BLDG	BUILDING	GA	GAUGE	REINF	REINFORCEMENT
BM	BEAM	GALV	GALVANIZED	REQ'D	REQUIRED
BOTT	BOTTOM	H.S.A.	HEADED STUD ANCHOR	RTU	ROOF TOP UNIT
BRG	BEARING	HK	HOOK	S.O.G.	SLAB ON GRADE
BTWN	BETWEEN	HORIZ	HORIZONTAL	SCHED	SCHEDULE
CFS	COLD-FORMED STEEL	J.B.E.	JOIST BEARING ELEVATION	SECT	SECTION
CL	CENTER LINE	JST	JOIST	SEOR	STRUCTURAL ENGINEER OF RECORD
CLR	CLEAR	JT	JOINT	SIM	SIMILAR
COL.	COLUMN	L	ANGLE	SJI	STEEL JOIST INSTITUTE
CONC	CONCRETE	LG	LONG	SPA	SPACING
CONN	CONNECTION	LLH	LONG LEG HORIZONTAL	SPECS	SPECIFICATIONS
CONT	CONTINUOUS	LLV	LONG LEG VERTICAL	STD	STANDARD
DEFL.	DEFLECTION	LONG	LONGITUDINAL	STIFF	STIFFENER
DIA, or Ø	DIAMETER	MAX	MAXIMUM	STL	STEEL
DIM	DIMENSION	MBM	METAL BUILDING MANUFACTURER	TOC	TOP OF CONCRETE
DN	DOWN	MECH	MECHANICAL	TOF	TOP OF FOOTING
do	DITTO	MFR	MANUFACTURER	TOS	TOP OF STEEL
DTL	DETAIL	MIN	MINIMUM	TOW	TOP OF WALL
DWG	DRAWING	MISC	MISCELLANEOUS	TRANS	TRANSVERSE
E.F.	EACH FACE	MTL	METAL	TYP	TYPICAL
E.W.	EACH WAY	N.S.	NEAR SIDE	U.N.O.	UNLESS NOTED OTHERWISE
EA	EACH	O.C.	ON CENTER	VERT	VERTICAL
EL	ELEVATION	O.F.	OUTSIDE FACE	W/	WITH
EQ	EQUAL	OPNG	OPENING	WP	WORK POINT
EXIST	EXISTING	P.A.F.	POWDERED ACTUATED FASTENER	WWF	WELDED WIRE FABRIC
EXP	EXPANSION	PED	PEDESTAL		
F.S.	FAR SIDE	PL	PLATE		

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STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER ★★★ No. 19778 BRIANNA L. OVUOBA
12.18.2025

100% CONSTRUCTION DOCUMENTS

No.	Issue	Date

CERTIFICATE OF AUTHORIZATION Tatum Smith Welcher Engineers, Inc. No. 218 ARKANSAS ENGINEER

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

Job No. UAFAPH-21.01
Date 12.18.2025
Title FOUNDATION GENERAL NOTES & TYP. DETAILS
Sheet No. **S1.1**

Structural Steel General Notes 5100:

1. All detailing, fabrication and erection of structural steel shall conform to the requirements of the AISC Specification for the Design, Fabrication and Erection of Structural Steel for Buildings.
2. Wide flanges and WT tees shall conform to ASTM A992 with a yield strength of 50 ksi.
3. Hollow Structural Section (HSS) shall conform to ASTM A500, Grade C with a yield strength of 50 ksi.
4. Steel pipes shall conform to ASTM A501 or ASTM A53, Grade B.
5. Headed stud anchors (H.S.A.'s) shall conform to ASTM A108.
6. All other structural steel shall conform to the requirements of ASTM A572 Grade 50. Angle, plate and beam lintels at exterior wall openings shall be hot-dipped galvanized.
7. All anchor rods shall conform to ASTM F1554, Grade 36. Nuts for anchor rods shall conform to ASTM A563, Grade A, heavy hex and anchor rod washers shall conform to ASTM F844.
8. All welding shall conform to the Specifications of the American Welding Society. Welding electrodes shall be E-70 low hydrogen series. Welding shall be done by a certified welder.
9. High strength bolts shall typically be 3/4" diameter bolts conforming to ASTM A325. Connections shall be designed as bearing type with threads in shear plane. Holes shall be 1/16" larger than bolt size. See details for connections with 1" diameter bolts.
10. All bolts shall be tightened to a snug-tight condition. A snug tight condition is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a man using an ordinary spud wrench. All connected elements must be brought into snug contact.
11. Bearing ends of all columns shall be square cut.
12. No openings shall be cut in structural members unless shown on the drawings.
13. Steel frame is non-self-supporting and column anchor rods are designed for a completed condition only. Metal roof deck, elevated slabs, steel moment frames, braced frames and masonry shear walls are required to provide lateral stability for the frame and resistance to wind and seismic forces. Contractor shall provide all temporary bracing required to maintain stability of structural system.
14. Anchor rod holes in base plates shall be sized in accordance with AISC "Detailing For Steel Construction".
15. All exposed edges of plates, beams, etc., shall be shop ground smooth and uniform.
16. All column base plates supported on footings, pedestals and concrete columns shall bear on 1 1/2" non-shrink non-metallic grout unless noted otherwise.
17. 1/2"Ø sleeve anchors shall be 1/2"Ø x 4" long HLC-H Sleeve Anchor by Hilti. HLC-H Sleeve Anchor shall be carbon steel with zinc plating & have a 3" embedment depth.
18. 1/2"Ø expansion bolts shall be 1/2"Ø x 5 1/2" long Kwik Bolt 3 by Hilti. Expansion Anchor shall be carbon steel with zinc plating & have a 3 1/2" embedment depth.
19. 3/4"Ø expansion bolts shall be 3/4"Ø x 5 1/2" long Kwik Bolt 3 by Hilti. Expansion Anchor shall be carbon steel with zinc plating & have a 4 3/4" embedment depth.

GENERAL CONTRACTOR SHALL INCLUDE 2 TON AT A MINIMUM COST OF $10,000/ TON OF MISCELLANEOUS STEEL BEAMS, CHANNELS AND ANGLES IN ADDITION TO THE FRAMING SHOWN ON THE PLANS AND DETAILS. GENERAL CONTRACTOR SHALL INCLUDE ERECTION, FABRICATION, DESIGN AND DETAILING COSTS FOR THIS ADDITIONAL FRAMING WITH THE BASE BID. THE USE OF MISCELLANEOUS STEEL IS TO BE RECORDED BY THE GENERAL CONTRACTOR AND ANY UNUSED AMOUNT IS TO BE CREDITED TO THE OWNER.

Composite Beam General Notes 5110:

1. Shear connectors shall be 3/4"Ø x 5" headed stud anchors (H.S.A.'s) conforming to ASTM A108.
2. Studs shall be installed in accordance with the specifications of the American Welding Society. Welding shall be done by a certified welder.
3. Installation of studs to the floor beams shall be inspected by the Testing Laboratory. See specifications for inspection requirements.
4. The minimum distance from the edge of the stud to the edge of the beam flange shall not be less than 1 1/2".
5. Minimum concrete cover around studs shall be 1".
6. <60> on the framing plan indicates the total number of studs per beam, equally spaced along the centerline of beam. Maximum stud spacing shall not exceed 12" o.c.. Where steel deck is perpendicular to the beam, a minimum of one stud per flute shall be provided (12" o.c.).
7. No openings, other than those shown on the drawings, may be made in the floor slab. If additional openings are required, the investigation of the work shall be performed by the Engineer.
8. Top flange of beam shall not be painted.

Steel Deck General Notes 5300:

1. Deck at elevated composite slab shall be 1 1/2" deep 22 gauge, galvanized steel VL Composite deck. (Vulcraft 1.5VL22, New Millennium 1.5CD22 or approved equal)
2. Deck at elevated composite slab shall be attached to the steel per the Composite Deck Fastening pattern, see detail 1/S1.2.
3. All deck shall be fastened per Steel Deck Institute (SDI) requirements.
4. Deck specified has been determined on basis of 3 span condition; deck supplier shall use heavier gauge if required for one and two span conditions.

Light Gauge Steel General Notes 5400:

1. All structural studs and headers shall be of the type, size, gauge and spacing as shown on the drawings.
2. All framing members shall be formed from steel, corresponding to the requirements of ASTM A653.
3. Steel for framing members shall have a minimum yield strength of 33 ksi, unless noted otherwise.
4. Exterior stud walls and lintels shall be constructed with the following, unless noted otherwise.
   - 6" studs: 600S162-43
   - 6" track: 600T125-43
5. See Architectural Drawings for summary of non-structural stud sizes; runner track gauge to match stud gauge, except at walls at strap bracing.
6. Load-bearing studs shall be braced in accordance with the manufacturer's specifications and recommendations. See Metal Stud Bridging Detail 8/S1.4.
7. Slide clips shall be VertiClip SLB with vertical slots by The Steel Network, Inc. or approved equal.
8. Rigid clips shall be StiffClip LB by The Steel Network, Inc. or approved equal.
9. Powder actuated fasteners for attachment of bottom runner track shall have a 0.157" minimum shank diameter and a 1 1/2" minimum concrete embedment. Space fasteners at 16" o.c., unless noted otherwise.
10. At interior stud walls extending to the underside of roof structures, provide a deflection track at the top of the wall.
11. Provide bracing to structure for all stud walls and furr-downs.
12. See Lintel Schedule on Drawing S3.0.1 for metal stud wall headers.

Stair Framing General Notes 5402:

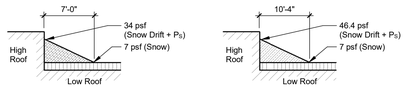
1. Egress stairs in East and West wing to be metal pan stairs with 12 gauge steel pan treads and risers. See plan and details for Main Stair construction.
2. Steel pans to be 1 1/2" deep and filled with 3,000 psi concrete at 28 days. Concrete to be entrained with 5% to 7% air.
3. Steel stringers to be a broken-back C12 x 20.7.
4. Platform to be 3" thick concrete on 26 gauge 0.6 form deck reinforced with L3 1/2 x 3 1/2 x 5/16 stiffener at 24" o.c. Weld each end of stiffeners to broken-back stringers. Reinforce concrete platform slab with 6 x 6-W2.0 x W2.0 WWF.
5. Attach bottom of stringers to concrete with L3 x 3 x 1/4 x 0'-6" long and a 3/4" diameter expansion bolt.
6. See sheets S3.4 and S3.5 for stair layouts and details.

Wood Framing General Notes 6100:

1. All framing lumber shall be Southern Yellow Pine (SYP) No. 2. Lumber shall have a moisture content between 7% and 19%.
2. All nailing is to be in accordance with the 2021 International Building Code Wood Fastening Schedule, Table 2304.10.2, unless noted otherwise.
3. All wood connectors are to be installed according to the manufacturer's specifications and recommendations with the maximum number and size of nails.
4. All multi-member beams and headers shall be glued and nailed together with (3) rows of 16d nails at 12" o.c.. Nail both sides of all 3-ply members.
5. All multi-member posts shall be glued & nailed together with (3) rows of 16d common wire nails @ 12" o.c. with 2" edge distance. Nail both sides of all 3-ply members.
6. All laminated veneer lumber (LVL) shall be 2.0E Microllam LVL as manufactured by TrusJoist or approved equal.
7. All exterior wood and light gauge walls shall be sheathed with 5/8" APA rated plywood sheathing along outside face of stud wall for full height of wall. Attach plywood to wood stud wall with 8d common nails at 6" o.c. along panel edges and 12" o.c. at intermediate studs. Attach plywood to metal stud wall with #10 screws at 6" o.c. along panel edges and 12" o.c. at intermediate studs.

Design Loads

1. Typical Roof Dead Load: 21 psf
2. Roof Live Load: 20 psf
3. Typical Elevated Wood Floor Dead Load: 30 psf
4. Typical Elevated Composite Floor Dead Load (5" slab): 70 psf
5. Typical Elevated Floor Live Load (Ground Level, Second Level): 100 psf
6. Typical Elevated Floor Live Load (Third Level): 40 psf
7. Rain Intensity, (15 min, $_1$): 6.45 in/hr
8. Snow Load: 10 psf
   - Ground Snow Load:
   - Flat-roof Snow Load at main roof (P_f) = 10 psf
   - Slope Factor (C_s) = 1.0
   - Snow Exposure Factor (C_e) = 1.0
   - Snow Load Importance Factor (I_s) = 1.0
   - Thermal Factor (C_t) = 1.0
9. Snow Drift:

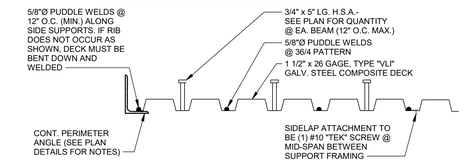


Ⓐ **Drift @ Low Roof** Ⓑ **Drift @ Low Roof**

10. Wind Load:
    - Ultimate Design Wind Speed (V_{ult}): 107 mph
    - Nominal Design Wind Speed (V_{asd}): 82.8 mph
    - Risk Category II
    - Wind Exposure B
    - Internal Pressure Coefficient, GC_{pi} = ±0.18
11. Components & Cladding Wind Load (Unfactored):
    - Width of Edge Zone, a = 13.4 ft
    - Wall Pressures (10 ft²)
      - End Zone Wall = 31.6 psf
      - Interior Zone = 25.6 psf
    - Wall Pressures (100 ft²)
      - End Zone Wall = 24.6 psf
      - Interior Zone = 22.1 psf
    - Roof Pressures (10 ft²)
      - Corner Zone = 51.2 psf
      - Eave & Rake Zone = 42.3 psf
      - Interior Zone = 33.0 psf
    - Roof Pressures (100 ft²)
      - Corner Zone = 23.6 psf
      - Eave & Rake Zone = 19.6 psf
      - Interior Zone = 20.7 psf
12. Seismic:
    - Risk Category II
    - Seismic Importance Factor (I_e) = 1.0
    - S_S = 0.169
    - S_1 = 0.091
    - S_{DS} = 0.139
    - S_{D1} = 0.091
    - Site Class C
    - Seismic Design Category B
    - Basic Structural System: Building Frame/Bearing Wall
    - Seismic Resisting System: Light Frame Shear Walls
    - Response Modification Coefficient (R): 6.5
    - Deflection Amplification Factor (C_d): 3
    - Seismic Response Coefficient (C_s): 0.0214
    - Analysis Procedure: Equivalent Lateral Force Procedure
13. Building Code:
    - 2021 International Building Code
    - 2021 Arkansas Fire Prevention Code, Volume II

THIS FACILITY HAS BEEN DESIGNED FOR THE SEISMIC CRITERIA AND BUILDING CODE NOTED ON THIS DRAWING IN ACCORDANCE WITH THE REQUIREMENTS OF ACT 1100.

NOTE:
PROVIDE 5/8" DIAMETER PUDDLE WELDS AT 12" O.C. FOR END LAPS (MIN. 2" LAP) AND ENDS OF EACH DECK RUN.

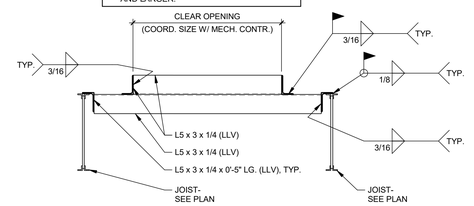


1 1/2" VLI COMPOSITE FLOOR DECK

1 TYP. COMPOSITE FLOOR DECK FASTENING PATTERN DETAIL

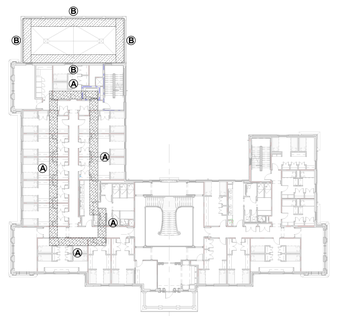
NOT TO SCALE

NOTES:
1. SLAB & DECK NOT SHOWN FOR CLARITY.
2. PROVIDE FRAMING FOR OPENINGS 12" x 12" AND LARGER.



2 TYP. FLOOR FRAMED OPNG. DETAIL

NOT TO SCALE



LEGEND:

Ⓐ DENOTES LIMITS OF SLIDING SNOW @ LOW ROOF (SEE DESIGN LOADS)

Ⓑ DENOTES LIMITS OF SNOW DRIFT @ LOW ROOF (SEE DESIGN LOADS)

NORTH

3 SNOW DRIFT & SLIDING SNOW PLAN

1" = 30'-0"

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12.18.2025

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title FRAMING GENERAL NOTES & TYP. DETAILS

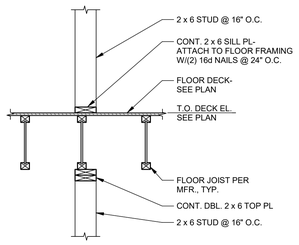
Sheet No. **S1.2**

CERTIFICATE OF AUTHORIZATION Tatum Smith Welcher Engineers, Inc. No. 238 ARKANSAS ENGINEERING

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

U of A Alpha Phi House
Autodesk Docs://Alpha Phi/24198 - Alpha Phi Sorority House - Fayetteville, AR_R24.rvt
12/18/2025 11:47:11 AM

NOTE:
SEE FRAMING DETAILS FOR SPECIFIC FRAMING ORIENTATION AND CONSTRUCTION.



1 TYP. INTERIOR PARTITION WALL CONN.

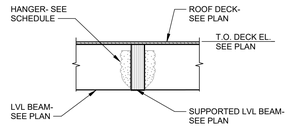
NOT TO SCALE

LVL BEAM TO LVL BEAM CONN. SCHED.

SUPPORTED BEAM SIZE	HANGER TYPE	REMARKS
3.5" x 11.875" LVL	HGUS412	-----
3.5" x 14" LVL	HGUS412	-----
3.5" x 16" LVL	HGUS412	-----

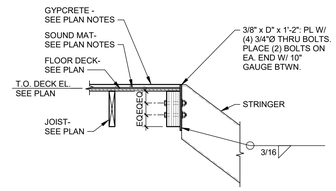
LVL BEAM TO LVL BEAM CONN. SCHED. NOTES:
1. SEE SIMPSON STRONG-TIE FOR FASTENING REQUIREMENTS.

NOTE:
SEE PLANS AND FRAMING DETAILS FOR SPECIFIC FRAMING ORIENTATION AND CONSTRUCTION.



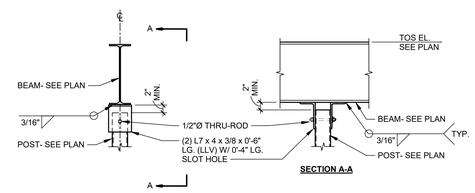
2 TYP. LVL BEAM TO LVL BEAM CONNECTION DETAIL

NOT TO SCALE



3 TYP. STAIR STRINGER TO LVL BEAM CONNECTION

NOT TO SCALE



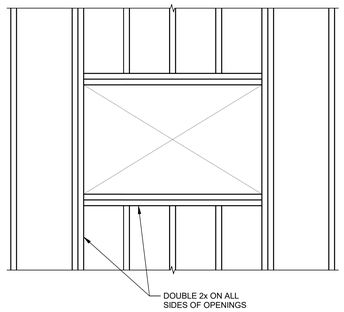
4 TYP. STEEL POST TO BEAM CONNECTION

NOT TO SCALE

HANGER SCHEDULE

HEADER SIZE	HANGER SIZE	REMARKS
2 x 6	LUS26	-----
2 x 10	LUS210	-----
(2) 2 x 10	LUS210-2	-----
2 x 12	LUS210	-----
(2) 2 x 12	LUS210-2	-----

HANGER SCHEDULE NOTES:
1. FOR OPENINGS LESS THAN 1'-4" USE (1) 2 x 6 HEADER.



5 TYP. ROOF WOOD FRAMED OPNG. DTL.

NOT TO SCALE

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12.18.2025

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Job No. UAFAPH-21.01
Date 12.18.2025
Title

TYP. FRAMING DETAILS

Sheet No.

S1.3

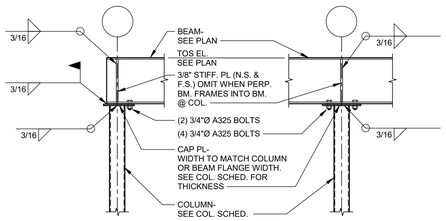
CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 208
ARKANSAS ENGINEER

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

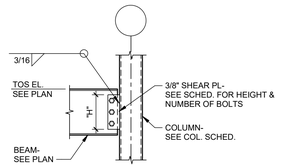
MISC. BEAM TO HSS COL. CONN. SCHED.			
BEAM SIZE	SHEAR PL SIZE (H)	NUMBER OF BOLTS	REMARKS
C8, W8, C10, W10	6"	(2) 3/4"Ø A325	-----
C12, W12, MC12, W14	9"	(3) 3/4"Ø A325	-----
C15, W16, W18, MC18	1'-0"	(4) 3/4"Ø A325	-----
W21, W24, W27	1'-3"	(5) 3/4"Ø A325	-----
W30	1'-6"	(6) 3/4"Ø A325	-----

NOTE:
TYPICAL BEAM TO COLUMN CONNECTION IS WITH CAP PLATE. USE THIS CONNECTION AT MISCELLANEOUS BEAMS FRAMING INTO COLUMNS BETWEEN MAIN FRAMING LEVELS.

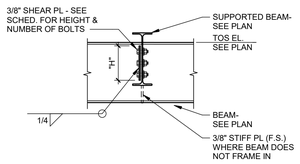
BEAM TO BEAM CONN. SCHED.			
SUPPORTED BEAM SIZE	SHEAR PL SIZE (H)	NUMBER OF BOLTS	REMARKS
C8, W8, C10, W10	6"	(2) 3/4"Ø A325	-----
C12, W12, MC12, W14	9"	(3) 3/4"Ø A325	-----
C15, W16, W18, MC18	1'-0"	(4) 3/4"Ø A325	-----
W21, W24, W27	1'-3"	(5) 3/4"Ø A325	-----
W30	1'-6"	(6) 3/4"Ø A325	-----



1 TYP. HSS COL. CAP PLATE DETAILS
NOT TO SCALE



2 TYP. MISC. BEAM TO HSS COLUMN CONNECTION DETAIL
NOT TO SCALE



3 TYP. BEAM TO BEAM CONNECTION DETAIL
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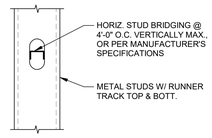

4 TYP. METAL STUD BRIDGING DETAIL
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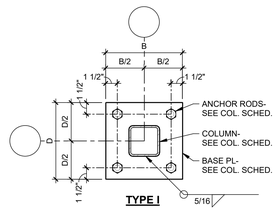

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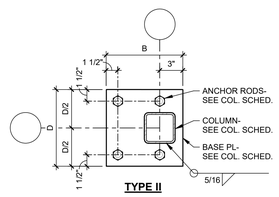

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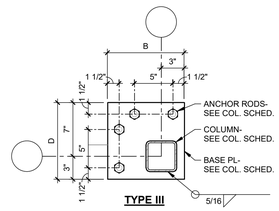

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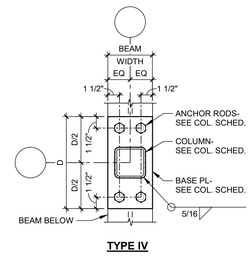

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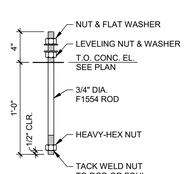
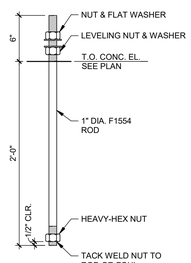


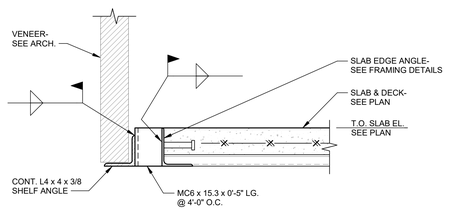
3/4" DIA. ROD



1" DIA. ROD

5 TYP. BASE PLATE DETAILS
1 1/2" = 1'-0"

6 TYP. ANCHOR ROD DETAIL
1 1/2" = 1'-0"



7 TYP. BRICK SHELF DETAIL
1 1/2" = 1'-0"

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TYP. FRAMING DETAILS

Sheet No.

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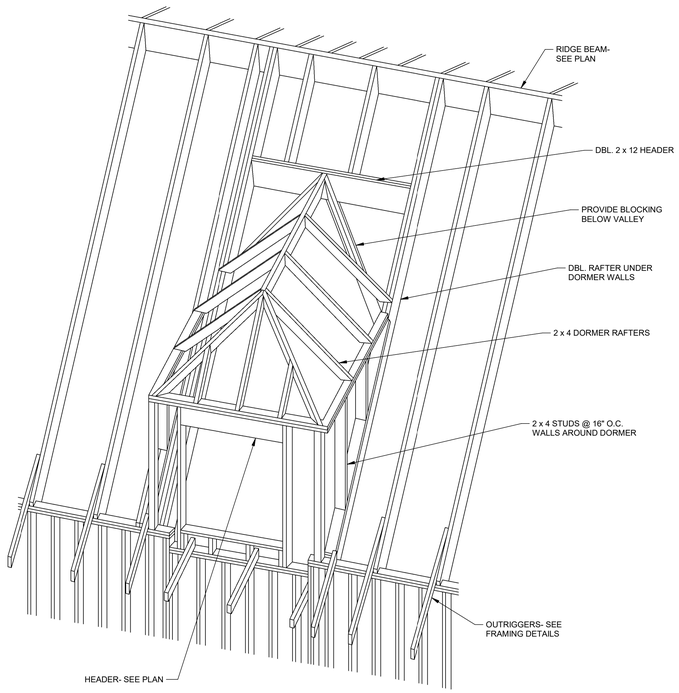
ISOMETRIC VIEW IS FOR INFORMATION PURPOSES ONLY AND IS NOT TO SCALE OR INCLUSIVE OF ALL NECESSARY FRAMING INFORMATION. SEE ROOF FRAMING PLAN AND SECTIONS FOR ADDITIONAL INFORMATION.



1 **TYP. DORMER FRAMING ISOMETRIC VIEW**
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STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19778
BRIANNA L. OVIEDO
12.18.2025

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No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title
TYP. DORMER FRAMING ISOMETRIC VIEW
Sheet No.
S1.5

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc.
No. 218
ARKANSAS ENGINEER

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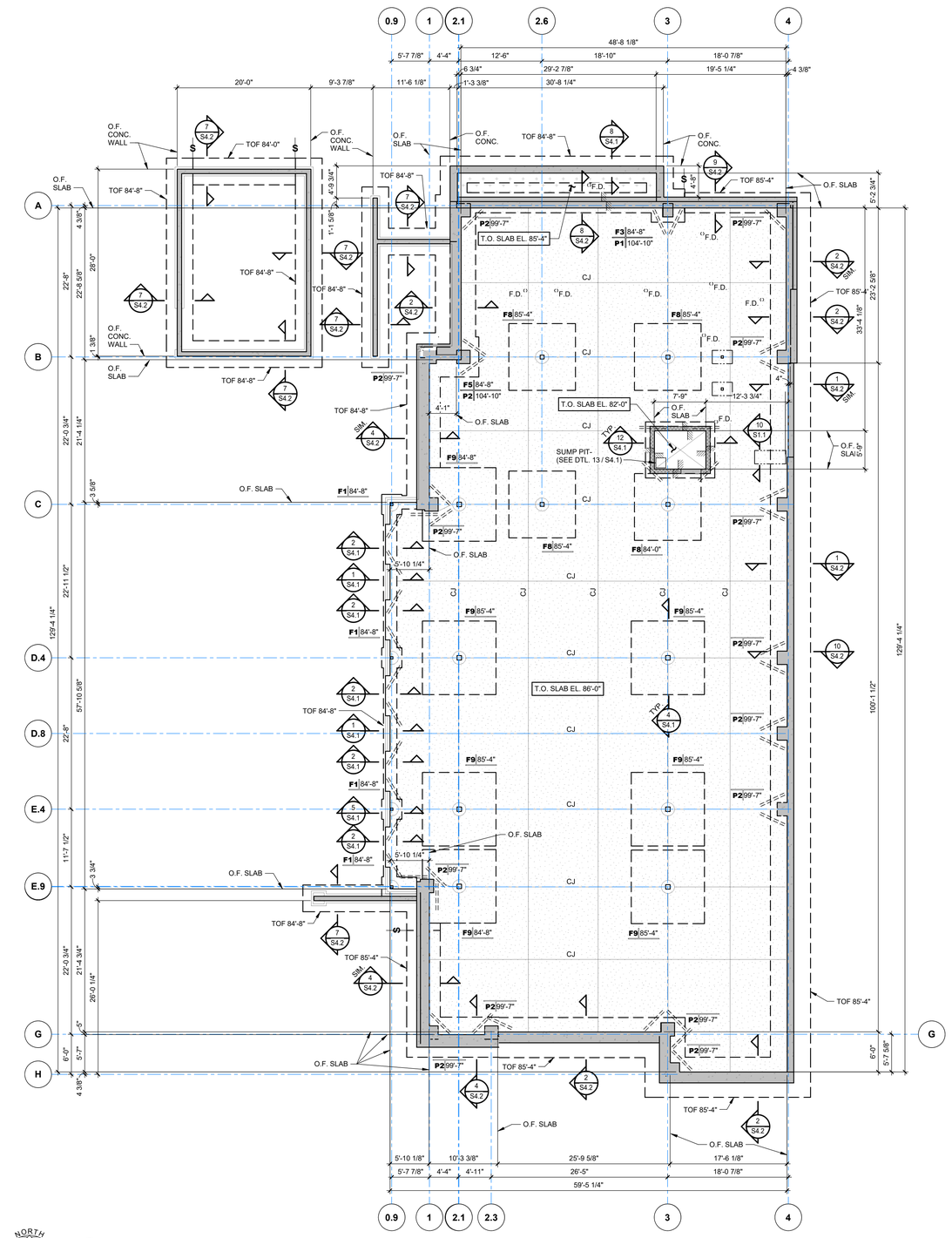

NORTH

1 LOWER LEVEL FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

MARK	FOOTING SIZE B	FOOTING SIZE L	FOOTING SIZE t	REINFORCING	REMARKS
F1	3'-0"	3'-0"	1'-4"	(4) #5 E.W., BOTT.	------
F2	4'-0"	4'-0"	1'-4"	(5) #5 E.W., BOTT.	------
F3	5'-0"	5'-0"	1'-4"	(6) #5 E.W., BOTT.	------
F4	9'-0"	6'-0"	1'-4"	(10) #5 TRANS. & (7) #5 LONG., BOTT.	------
F5	6'-0"	6'-0"	2'-0"	(11) #5 E.W., BOTT.	------
F6	7'-0"	7'-0"	2'-0"	(12) #5 E.W., BOTT.	------
F7	8'-0"	8'-0"	2'-0"	(14) #5 E.W., BOTT.	------
F8	10'-0"	10'-0"	2'-0"	(17) #5 E.W., BOTT.	------
F9	11'-0"	11'-0"	2'-4"	(22) #5 E.W., BOTT.	------

FOOTING SCHEDULE NOTES:
1. SEE FOUNDATION PLAN FOR LOCATION AND ORIENTATION.

PEDESTAL SCHEDULE

MARK	PEDESTAL SIZE WIDTH	PEDESTAL SIZE LENGTH	VERTICAL DOWELS	TIES	REMARKS
P1	1'-4"	2'-0"	(6) #6 DOWELS	#3 TIES @ 12" O.C.	SEE NOTES
P2	2'-0"	2'-0"	(8) #6 DOWELS	#3 TIES @ 12" O.C.	SEE NOTES

PEDESTAL SCHEDULE NOTES:
1. SEE FOUNDATION PLAN FOR LOCATION AND ORIENTATION.
2. PROVIDE MIN. (3) TIES IN TOP 6" OF PEDESTAL.

LEGEND:

- F1 98'-8" / P1 100'-0" — FOOTING MARK (SEE FTG. SCHED. ON THIS DWG.) / TOP OF FOOTING ELEVATION / TOP OF PEDESTAL ELEVATION / PEDESTAL MARK (SEE PED. SCHED. ON THIS DWG.)
- O.F. — DENOTES OUTSIDE FACE
- TOF — DENOTES TOP OF FOOTING
- DENOTES LIMITS OF 4" SLAB SEE PLAN NOTES
- DENOTES LIMITS OF 4" EXTERIOR SLAB SEE PLAN NOTES
- DENOTES LOAD-BEARING CMU WALL
- DENOTES CONCRETE STEM WALL
- DENOTES THICKENED SLAB
- DENOTES SLAB ELEVATION CHANGE
- S — DENOTES FTG. STEP MARK (SEE DTL. 7 / S1.1)
- DENOTES AREA & DIRECTION OF SLOPE TO FLOOR DRAIN 1/16"/FT. MIN. (U.N.O.)
- F.D. — DENOTES FLOOR DRAIN
- 100'-0" — DENOTES TOP OF SLAB EL.
- DENOTES LOCATION OF RE-ENTRANT CORNER BARS (SEE CONC. GEN. NOTE #9)

PLAN NOTES:

1. 4" S.O.G. CONSTRUCTION: 4" CONCRETE SLAB REINFORCED W/ 6 x 6-W1.4 x W1.4 WWF ON 15 MIL POLYETHYLENE FILM OVER 4" CRUSHED STONE TYP. PLACE WWF 2" CLR. FROM TOP OF SLAB.
2. 4" EXTERIOR S.O.G. CONSTRUCTION: 4" CONCRETE SLAB REINFORCED W/ #3 @12" O.C. ON 15 MIL POLYETHYLENE FILM OVER 4" CRUSHED STONE TYP. PLACE REINF. 2" CLR. FROM TOP OF SLAB.
3. CENTER COLUMN FTGS. UNDER COLUMN, (U.N.O.).
4. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0", ACTUAL FIN. FLR. EL. 1394.5' AS ESTABLISHED BY DUKE DESIGN GROUP.
5. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
6. "CJ" DENOTES CONTROL OR CONSTRUCTION JOINT. (SEE DTLS. 1/S1.1 & 2/S1.1).
7. COORDINATE LOCATION & LIMITS OF VENEER WITH ARCH. DWGS.
8. COORDINATE DOOR LOCATIONS WITH ARCH. DWGS.
9. SEE ARCH./ PLUMBING DWGS. FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, SLOPED & RECESSED SLABS.
10. COORDINATE LOCATIONS OF PLUMBING LINES W/ PLUMBER PRIOR TO POURING FOOTINGS & SLABS-ON-GRADE.
11. SEE DWG. S1.1 FOR GENERAL NOTES & TYP. DETAILS.
12. SEE THIS DWG. FOR FOOTING SCHEDULE & PEDESTAL SCHEDULE.
13. SEE ARCH. FLOOR PATTERN PLANS FOR SLAB LOCATIONS WITH POLISHED CONCRETE.

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Job No. UAFAPH-21.01

Date 12.18.2025

Title LOWER LEVEL FOUNDATION PLAN

Sheet No. **S2.1**

CERTIFICATE OF AUTHORIZATION — Tatum Smith Welcher Engineers, Inc. No. 218 — ARKANSAS ENGINEERING

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TSW #: 24198 PM: BLO DE: KDH

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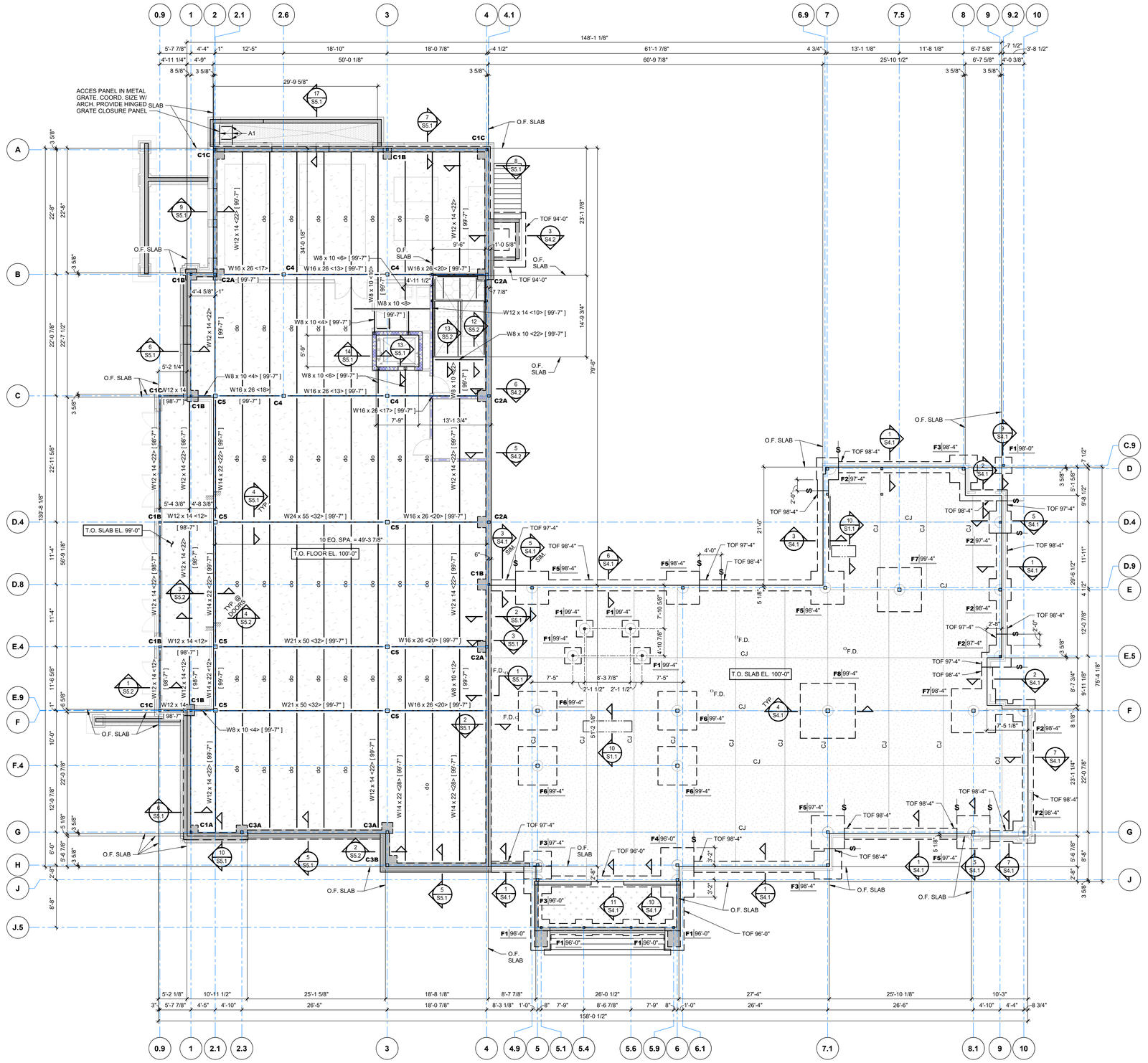

NORTH

1 GROUND FLOOR FOUNDATION & FRAMING PLAN

1/8" = 1'-0"

FOOTING SCHEDULE

MARK	FOOTING SIZE B	L	t	REINFORCING	REMARKS
F1	3'-0"	3'-0"	1'-4"	(4) #5 E.W., BOTT.	------
F2	4'-0"	4'-0"	1'-4"	(5) #5 E.W., BOTT.	------
F3	5'-0"	5'-0"	1'-4"	(6) #5 E.W., BOTT.	------
F4	9'-0"	6'-0"	1'-4"	(10) #5 TRANS. & (7) #5 LONG., BOTT.	------
F5	6'-0"	6'-0"	2'-0"	(11) #5 E.W., BOTT.	------
F6	7'-0"	7'-0"	2'-0"	(12) #5 E.W., BOTT.	------
F7	8'-0"	8'-0"	2'-0"	(14) #5 E.W., BOTT.	------
F8	10'-0"	10'-0"	2'-0"	(17) #5 E.W., BOTT.	------
F9	11'-0"	11'-0"	2'-4"	(22) #5 E.W., BOTT.	------

PEDESTAL SCHEDULE

MARK	PEDESTAL SIZE WIDTH	LENGTH	VERTICAL DOWELS	TIES		REMARKS
P1	1'-4"	2'-0"	(6) #6 DOWELS	#3 TIES @ 12" O.C.		SEE NOTES
P2	2'-0"	2'-0"	(8) #6 DOWELS	#3 TIES @ 12" O.C.		SEE NOTES

PEDESTAL SCHEDULE NOTES:
1. SEE FOUNDATION PLAN FOR LOCATION AND ORIENTATION.
2. PROVIDE MIN. (3) TIES IN TOP 6" OF PEDESTAL.

COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PL SIZE (t x B x D)	BASE PL TYPE (SEE DTL. 5/S1.4)	ANCHOR RODS (SEE DTL. 6/S1.4)	CAP PL THICKNESS
C1A	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE I	(4) 3/4" F1554	1/4"
C1B	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE II	(4) 3/4" F1554	1/4"
C1C	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE III	(4) 3/4" F1554	1/4"
C1D	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE IV	(4) 3/4" F1554	1/4"
C2A	HSS5 1/2 x 5 1/2 x 3/8	3/4" x 12" x 12"	TYPE II	(4) 3/4" F1554	1/4"
C2B	HSS5 1/2 x 5 1/2 x 3/8	3/4" x 12" x 12"	TYPE III	(4) 3/4" F1554	1/4"
C3A	HSS6 x 6 x 3/8	3/4" x 12" x 12"	TYPE II	(4) 3/4" F1554	1/4"
C3B	HSS6 x 6 x 3/8	3/4" x 12" x 12"	TYPE III	(4) 3/4" F1554	1/4"
C4	HSS7 x 7 x 1/2	3/4" x 14" x 14"	TYPE I	(4) 3/4" F1554	1/4"
C5	HSS8 x 8 x 5/8	3/4" x 14" x 14"	TYPE I	(4) 3/4" F1554	1/4"
SC1	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE I	(4) 3/4" F1554	1/4"

LEGEND:

- F1 98'-8" / P1 100'-0" — FOOTING MARK (SEE FTG. SCHED. ON THIS DWG.); TOP OF FOOTING ELEVATION; TOP OF PEDESTAL ELEVATION
- PEDESTAL MARK (SEE PED. SCHED. ON THIS DWG.)
- O.F. — DENOTES OUTSIDE FACE
- TOF — DENOTES TOP OF FOOTING
- TOW — DENOTES TOP OF WALL
- DENOTES LIMITS OF 4" SLAB (SEE PLAN NOTES)
- DENOTES LIMITS OF 4" EXTERIOR SLAB (SEE PLAN NOTES)
- DENOTES LIMITS OF 5" CONC. SLAB & DECK (SEE PLAN NOTES)
- DENOTES LIMITS OF 5" EXTERIOR CONC. SLAB & DECK (SEE PLAN NOTES)
- DENOTES LIMITS OF STAIR LANDING SLAB & DECK (SEE SHEET S3.4)
- DENOTES LIMITS OF CATWALK 1" METAL GRATING DECK (SEE PLAN NOTES)
- DENOTES THICKENED SLAB
- DENOTES LOAD-BEARING CMU WALL
- DENOTES CONCRETE WALL
- DENOTES SLAB ELEVATION CHANGE
- $ — DENOTES FTG. STEP MARK (SEE DTL. 7 / S1.1)
- DENOTES AREA & DIRECTION OF SLOPE TO FLOOR DRAIN 1/16"/FT. MIN. (U.N.O.)
- F.D. — DENOTES FLOOR DRAIN
- 100'-0" — DENOTES TOP OF SLAB EL.
- DENOTES LOCATION OF RE-ENTRANT CORNER BARS (SEE CONC. GEN. NOTE #9)
- C1 — DENOTES COLUMN MARK (SEE COL. SCHED. ON THIS SHEET)
- <45> — DENOTES NUMBER OF H.S.A.'s WELDED TO BEAM TOP FLANGE (SEE COMPOSITE BEAM GENERAL NOTE #1)
- [118'-8"] — DENOTES TOP OF BEAM EL.
- DENOTES BEAM BEARING PLATE (SEE BEARING PL SCHED.)

PLAN NOTES:

1. 4" S.O.G. CONSTRUCTION: 4" CONCRETE SLAB REINFORCED W/ 6 x 6-W1.4 x W1.4 WWF ON 15 MIL POLYETHYLENE FILM OVER 4" CRUSHED STONE TYP. PLACE WWF 2" CLR. FROM TOP OF SLAB.
2. 4" EXTERIOR S.O.G. CONSTRUCTION: 4" CONCRETE SLAB REINFORCED W/ #3 @12" O.C. ON 15 MIL POLYETHYLENE FILM OVER 4" CRUSHED STONE TYP. PLACE REINF. 2" CLR. FROM TOP OF SLAB.
3. TYP. ELEVATED SLAB CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINFORCED W/ 6 x 6-W2.0 x W2.0 WWF ON 1 1/2" DEEP, 22 GAUGE, GALVANIZED COMPOSITE DECK. PLACE REINFORCING 1 1/2" CLEAR FROM TOP OF SLAB. (SEE STEEL DECK GENERAL NOTES FOR ATTACHMENT REQUIREMENTS.)
4. TYP. EXTERIOR ELEVATED SLAB CONSTRUCTION: 5" CONCRETE SLAB REINFORCED W/ #3 @12" O.C. E.W. ON 1 1/2" DEEP, 22 GAUGE, GALVANIZED COMPOSITE DECK. PLACE REINFORCING 1 1/2" CLEAR FROM TOP OF SLAB. (SEE STEEL DECK GENERAL NOTES FOR ATTACHMENT REQUIREMENTS.)
5. CATWALK STEEL GRATING: 1" GW SERIES SMOOTH STEEL BAR GRATING BY McNICHOLS OR APPROVED EQUAL.
6. CENTER COLUMN FTGS. UNDER COLUMN, (U.N.O.).
7. "CJ" DENOTES CONTROL OR CONSTRUCTION JOINT. (SEE DTLS. 1/S1.1 & 2/S1.1).
8. COORDINATE LOCATION & LIMITS OF VENEER WITH ARCH. DWGS.
9. COORDINATE DOOR LOCATIONS WITH ARCH. DWGS.
10. SEE ARCH / PLUMBING DWGS. FOR EXACT LOCATIONS OF ALL FLOOR DRAINS, SLOPED & RECESSED SLABS.
11. COORDINATE LOCATIONS OF PLUMBING LINES W/ PLUMBER PRIOR TO POURING FOOTINGS & SLABS-ON-GRADE.
12. SEE THIS DWG. FOR FOOTING SCHEDULE & COLUMN SCHEDULE
13. SEE ARCH. FLOOR PATTERN PLANS FOR SLAB LOCATIONS WITH POLISHED CONCRETE.
14. TOP OF ELEVATED SLAB EL., SEE PLAN.
15. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0". ACTUAL FIN. FLR. EL. 1394.5' AS ESTABLISHED BY DUKE DESIGN GROUP.
16. SEE DWGS. S1.1, S1.2, S1.3, & S1.4 FOR GENERAL NOTES & TYPICAL DETAILS.
17. SEE ARCH. DWGS. & LOWER LEVEL FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.
18. SEE DWGS. S3.0 & S3.01 FOR LINTEL PLANS & DETAILS.

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12.18.2025

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Job No. UAFAPH-21.01
Date 12.18.2025
Title GROUND FLOOR FOUNDATION & FRAMING PLAN
Sheet No. **S2.2**

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HEADER SCHEDULE

MARK	WALL LOCATIONS	TYPE & SIZE (THICKNESS x HEIGHT)	REINFORCEMENT OR ATTACHMENT	BRICK ANGLE OR PLATES	REMARKS
H1	2 x 4	(2) 2 x 8 W/ (1) 1/2" PLYWOOD SPACER	-----	-----	SEE NOTES #1, #2, #5, #6, & #7
H2	2 x 4	(2) 1.75 x 7.25 LVL	-----	-----	SEE NOTES #1, #2, #5, #6,& #7
H3	2 x 6	(3) 2 x 4 W/ (2) 1/2" PLYWOOD SPACERS	-----	L3 1/2" x 3 1/2" x 3/8"	SEE NOTES #1, #2, #3, #5, #6 & #7
H4	2 x 6	(2) 2 x 6 W/ (1) 1/2" PLYWOOD SPACER	-----	L3 1/2" x 3 1/2" x 3/8"	SEE NOTES #1, #2, #3, #5, #6 & #7
H5	2 x 6	(3) 1.75 x 5.5 LVL	-----	L3 1/2" x 3 1/2" x 3/8"	SEE NOTES #1, #2, #3, #5, #6, #7 & #8
H6	2 x 6	(3) 1.75 x 7.25 LVL	-----	L3 1/2" x 3 1/2" x 3/8"	SEE NOTES #1, #2, #3, #5, #6 & #7
H7	6" MTL. STD.	(2) 362S162-43 MTL. STUDS W/ 600T125-43 TRACKS TOP & BOTT	(4) #8 SCREWS @ 12" O.C.	-----	SEE NOTES #1, #2, #6 & DTL. 1/S3.0
H8	6" MTL. STD.	(2) 600S162-43 MTL. STUDS W/ 600T-43 TRACKS TOP & BOTT	(4) #8 SCREWS @ 12" O.C.	L3 1/2" x 3 1/2" x 3/8"	SEE NOTES #1, #2, #6 & DTL. 1/S3.0
SH1	2 x 6	(3) 2 x 8 W/ (2) 1/2" PLYWOOD SPACER HORIZONTAL OVER CIRCULAR WINDOW OPENING	-----	ELLIPTICAL GALVANIZED STEEL HEADER	SEE NOTES #1, #2, #5, #6, #7 & DTL. 7/S3.0
SH2	2 x 6	(3) 2 x 8 W/ (2) 1/2" PLYWOOD SPACER HORIZONTAL OVER WINDOW OPENING	-----	CUSTOM GALVANIZED STEEL HEADER	SEE NOTES #1, #2, #5, #6, #7 & DTL. 6/S3.0
SH3	6" MTL. STD.	(2) 600S162-43 MTL. STUDS W/ 600T-43 TRACKS TOP & BOTT	(4) #8 SCREWS @ 12" O.C.	CUSTOM GALVANIZED STEEL HEADER	SEE NOTES #1, #2, #4, #6 & DTL. 8/S3.0

HEADER SCHEDULE NOTES:
1. SEE ARCH. DWGS. FOR EXACT LOCATION OF ALL HEADERS.
2. COORDINATE ALL BOTTOM PLATE/ANGLE ELEVATIONS WITH ARCH. DWGS.
3. BRICK HEADERS SHALL HAVE 6" MIN. BEARING EACH SIDE OF OPENING.
4. SEE GENERAL NOTES FOR STUD AND TRACK SIZES.
5. ALL MULTI-MEMBER BEAMS & HEADERS SHALL BE GLUED & NAILED TOGETHER WITH (3) ROWS OF 16d COMMON WIRE NAILS @ 12" O.C. WITH 2" EDGE DISTANCE. NAIL BOTH SIDES OF ALL 3-PLY MEMBERS.
6. PROVIDE MIN. (2) JACK STUDS & (2) KING STUDS WHERE HEADERS BEAR ON STUD WALL. A KING STUD IS DEFINED AS A STUD THAT GOES FULL HEIGHT.
7. SEE WOOD GENERAL NOTES FOR INFORMATION NOT SHOWN.
8. PROVIDE (4) JACK STUDS AT THIS HEADER.

LINTEL SCHEDULE

MARK	WALL LOCATIONS	TYPE & SIZE (THICKNESS x HEIGHT)	REINFORCEMENT OR ATTACHMENT	BRICK ANGLE OR PLATES	REMARKS
L1	8" CMU	CMU 8" x 8" BOND BM.	(1) #5 BOTT.	-----	SEE NOTES #1, #2, #4 & #5
L2	8" CONC.	8" W x 18" H	(4) #6 HORIZ. BARS W/ #3 TIES @ 4" O.C.	BENT PL 3/8" x 4" x 9 1/2" (LLH)	SEE NOTES #1, #2 & #6
L3	1'-0" CONC.	1'-0" W x 18" H	(4) #6 HORIZ. BARS W/ #3 TIES @ 4" O.C.	L4 x 4 x 3/8	SEE NOTES #1, #2, #6 & #7

LINTEL SCHEDULE NOTES:
1. SEE ARCH. DWGS. FOR EXACT LOCATION OF ALL LINTELS.
2. COORDINATE ALL BOTTOM PLATE/BEAM/CMU/ANGLE ELEVATIONS WITH ARCH. DWGS.
3. ALL CMU LINTELS SHALL HAVE 8" MIN. BEARING EACH SIDE OF OPENING.
4. FILL ALL CMU LINTELS WITH 2,000 PSI GROUT.
5. ALL 8" CMU LINTELS SHALL HAVE A MIN. (2) CELLS OF (1) #5 JAMB STEEL EACH SIDE OF OPENING.
6. ALL STEEL LINTELS SHALL HAVE 6" MIN. BEARING EACH SIDE OF OPENING.
7. SEE DTL. 11/S1.1 FOR JAMB REINFORCEMENT REQUIREMENTS.

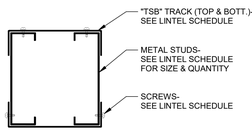
MASONRY WALL REINFORCEMENT SCHEDULE

MARK	WALL LOCATION	BOND BEAM REINF.	BOND BEAM LOCATIONS	VERT. REINF.	FOUNDATION DOWELS	REMARKS
A	8" CMU	(1) #5 BOTT.	TOP OF WALL, ROOF EL., FLOOR EL. & WHERE NOTED ON DWGS.	#5 @ 32" O.C.	#5 DOWEL @ 32" O.C. CENTER IN WALL	-----

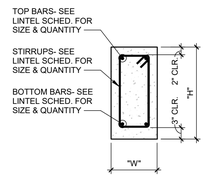
MASONRY WALL REINFORCEMENT SCHEDULE NOTES:
1. UNO AT SLAB-ON-GRADE, DRILL & EPOXY DOWELS 6" INTO SLAB.

BEARING PLATE SCHEDULE

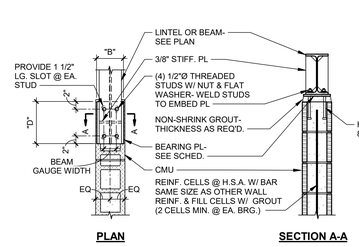
LINTEL/BEAM SIZE	LINTEL BRG. PL. SIZE (t x B x D)	BEAM BRG. PL SIZE (t x B x D)	HEADED STUD ANCHORS	SEE DTL.	REMARKS
ALL BEAM SIZES	3/8" x 7" x 11"	3/8" x 7" x 11"	(2) 1/2"Ø x 6" H.S.A.	3a/S3.0	8" CMU WALL
ALL BEAM SIZES	3/8" x 7" x 11"	3/8" x 7" x 11"	(2) 1/2"Ø x 6" H.S.A.	3b/S3.0	8" CMU WALL



1 STUD LINTEL DTL.
NOT TO SCALE

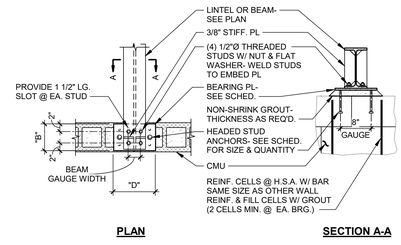


2 TYP. CONC. LINTEL DETAIL
NOT TO SCALE



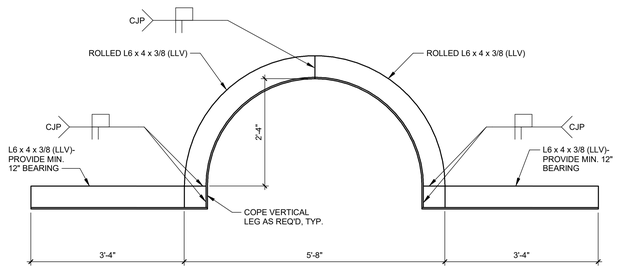
PLAN SECTION A-A

3a TYP. WF LINTEL & BEAM BEARING PLATE DETAILS
NOT TO SCALE

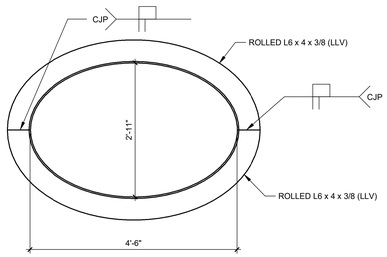


PLAN SECTION A-A

3b TYP. WF LINTEL & BEAM BEARING PLATE DETAILS
NOT TO SCALE

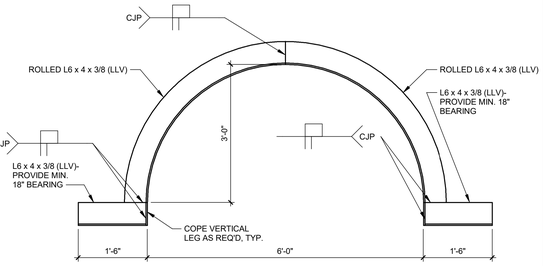


4 SOUTH ENTRY LOOSE LINTEL DETAIL
NOT TO SCALE

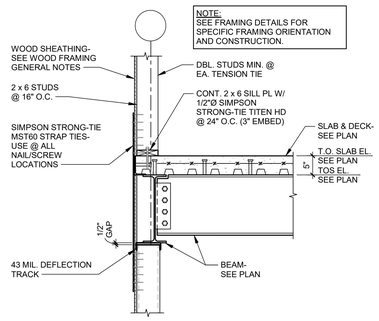


ELLIPTICAL GALVANIZED STEEL HEADER
NOT TO SCALE

5

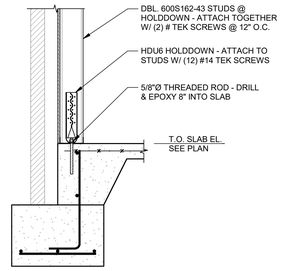


6 GALVANIZED ARCHED LOOSE LINTEL DETAIL
NOT TO SCALE



TYP. HOLDOWN FOR EXT. WALL @ FLOOR
NOT TO SCALE

8

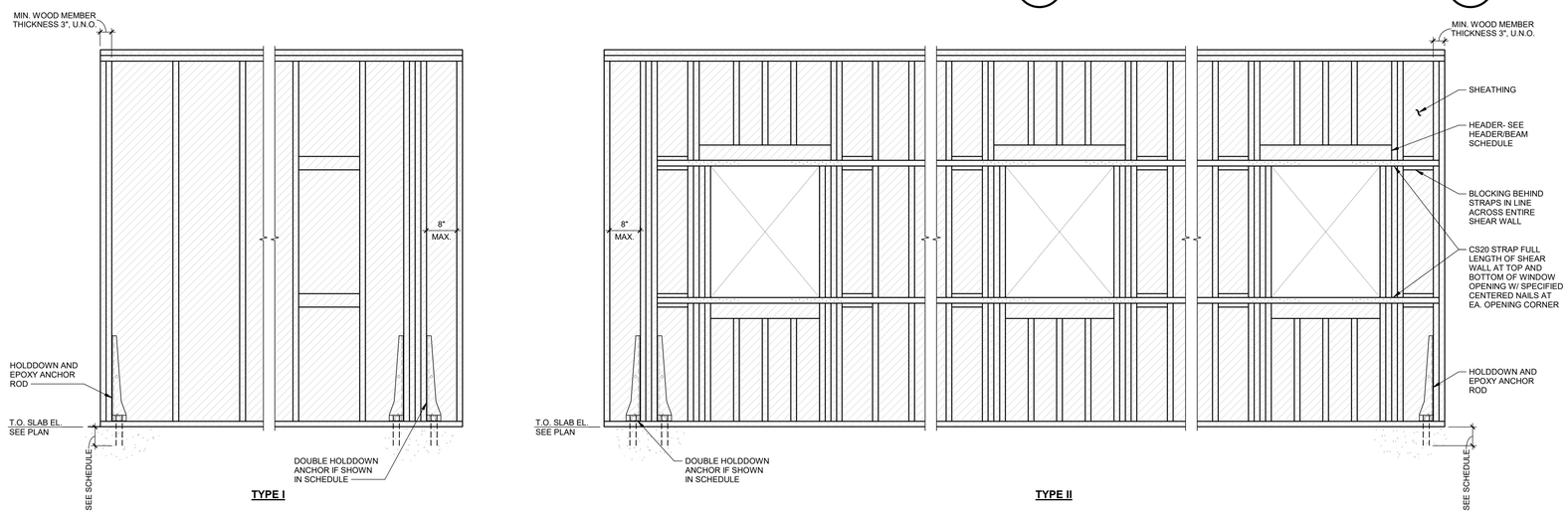


9 TYP. HOLDOWN @ STUD WALL
NOT TO SCALE

SHEAR WALL SCHEDULE

MARK	TYPE	SHEATHING	SHEATHING FASTENING	HOLDDOWN	ANCHOR ROD, EPOXY, & EMBED	STRAP	STRAP FASTENING @ EA. OPENING CORNER	BLOCKING	REMARKS
A	I	15/32" NOMINAL STRUCTURAL I GRADE	#10 SCREWS @ 6" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS	(1) HDU6-SDS2.5 W/ (12) #14 SCREWS TO MIN. (2) 600S162-43 STUDS	5/8"Ø ANCHOR ROD EMBED 8" MIN. W/ SIMPSON SET-3G EPOXY	N/A	N/A	FULLY BLOCKED @ 4'-0" O.C. VERTICALLY	SEE NOTE #1,2
B	II	15/32" NOMINAL STRUCTURAL I GRADE	#10 SCREWS @ 6" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS	(1) HDU6-SDS2.5 W/ (12) #14 SCREWS TO MIN. (2) 600S162-43 STUDS	5/8"Ø ANCHOR ROD EMBED 8" MIN. W/ SIMPSON SET-3G EPOXY	CS16	(7) 16d NAILS IN 13" END LENGTH AT EA. CORNER	FULLY BLOCKED @ 4'-0" O.C. VERTICALLY	SEE NOTE #1,2
C	I	15/32" NOMINAL STRUCTURAL I GRADE	10d NAILS @ 4" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS	(1) MST60 W/ (17) 16d NAILS TO MIN. (2) 2 x 6 STUDS AND (34) #10 SCREWS TO MIN. (2) 600S162-43 STUDS	N/A	N/A	N/A	FULLY BLOCKED @ 4'-0" O.C. VERTICALLY	SEE NOTE #1
D	II	15/32" NOMINAL STRUCTURAL I GRADE	10d NAILS @ 4" O.C. AT PANEL EDGES & 12" O.C. AT INTERMEDIATE SUPPORTS	(1) MST60 W/ (17) 16d NAILS TO MIN. (2) 2 x 6 STUDS AND (34) #10 SCREWS TO MIN. (2) 600S162-43 STUDS	N/A	CS16	(22) 16d NAILS IN 13" END LENGTH AT EA. CORNER	FULLY BLOCKED @ 4'-0" O.C. VERTICALLY	SEE NOTE #1

SHEAR WALL SCHEDULE NOTES:
1. ALL CONNECTORS, STRAPS, HOLDDOWNS AND ANCHORS, & EPOXY SHALL BE BY SIMPSON STRONG-TIE, U.N.O.
2. DRILL AND EPOXY HOLDOWNS ARE NOT TO BE PLACED IN COLUMN BLOCKOUT.



7 TYP. SHEAR WALL ELEVATION, AND SCHEDULE
3/4" = 1'-0"

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STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER No. 19778 BRIANNA L. CHAMBERS 12.18.2025

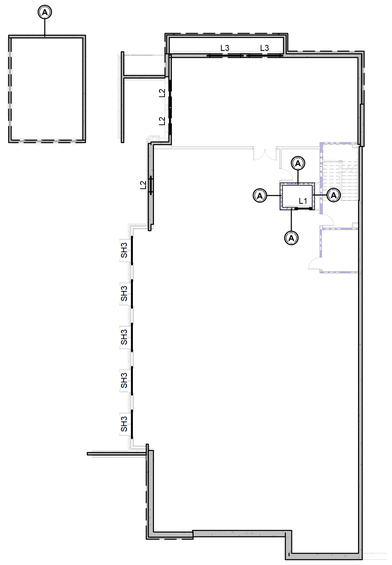
100% CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title TYP. LINTEL & MASONRY DTLS.
Sheet No. **S3.0**

Certificate of Authorization Tatum Smith Welcher Engineers, Inc. No. 218 Arkansas Engineering

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH



NORTH

1 LOWER LEVEL HEADER & WALL PLAN

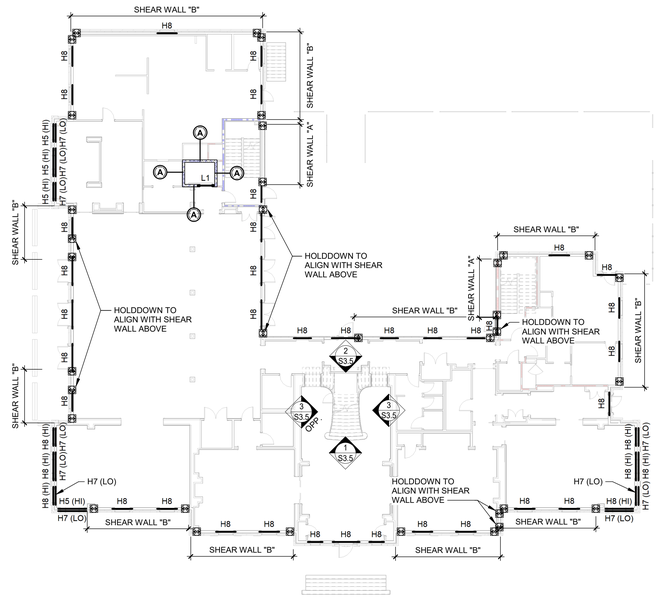
1/16" = 1'-0"

LEGEND (ALL PLANS):

- L1 — DENOTES LINTEL MARK, SEE LINTEL SCHED.
- H1 — DENOTES HEADER MARK, SEE HEADER SCHED.
- DENOTES LOAD-BEARING CMU WALL
- 1 / S6.1 — DENOTES PARTIAL ELEVATION ON CORRESPONDING DWG. (SOLID HATCH DENOTES DIRECTIONAL VIEW)
- (A) — DENOTES MASONRY WALL REINF. MARK, SEE MASONRY WALL REINF. SCHED.
- DENOTES LOCATION OF SIMPSON STRONG-TIE HOLDDOWN (SEE DTL. 7 / S3.0)

PLAN NOTES (ALL PLANS):

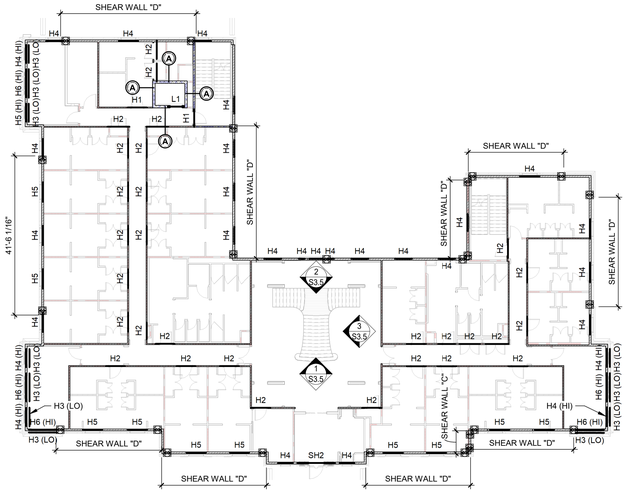
1. SEE DWGS. S1.1, S1.2, S1.3 & S1.4 FOR GENERAL NOTES & TYP. DETAILS.



NORTH

2 GROUND LEVEL HEADER & WALL PLAN

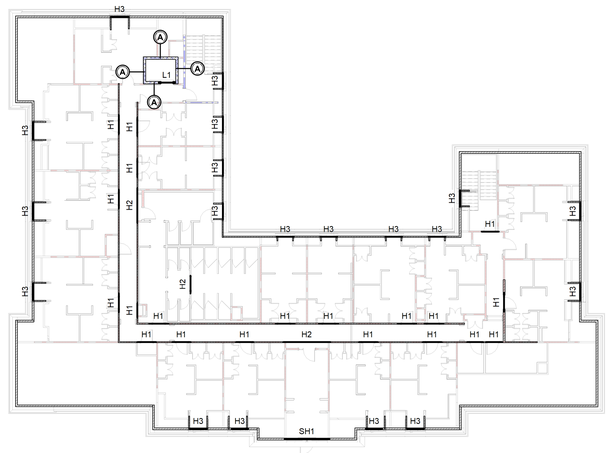
1/16" = 1'-0"



NORTH

3 SECOND LEVEL HEADER & WALL PLAN

1/16" = 1'-0"



NORTH

4 THIRD LEVEL HEADER & WALL PLAN

1/16" = 1'-0"

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No. 19778
BRIANNA L. OVERBY
12.18.2025

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

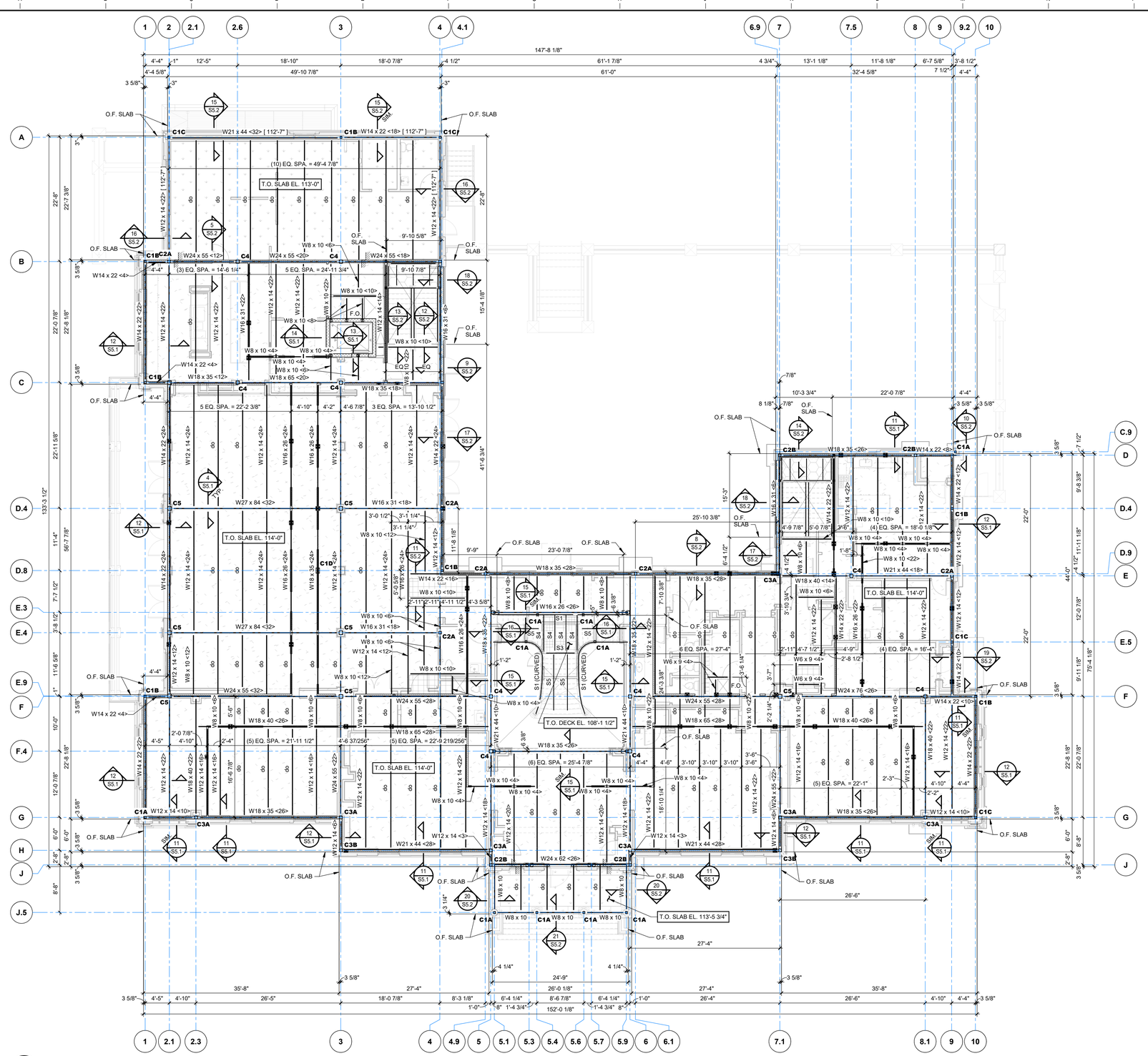
HEADER & WALL PLANS

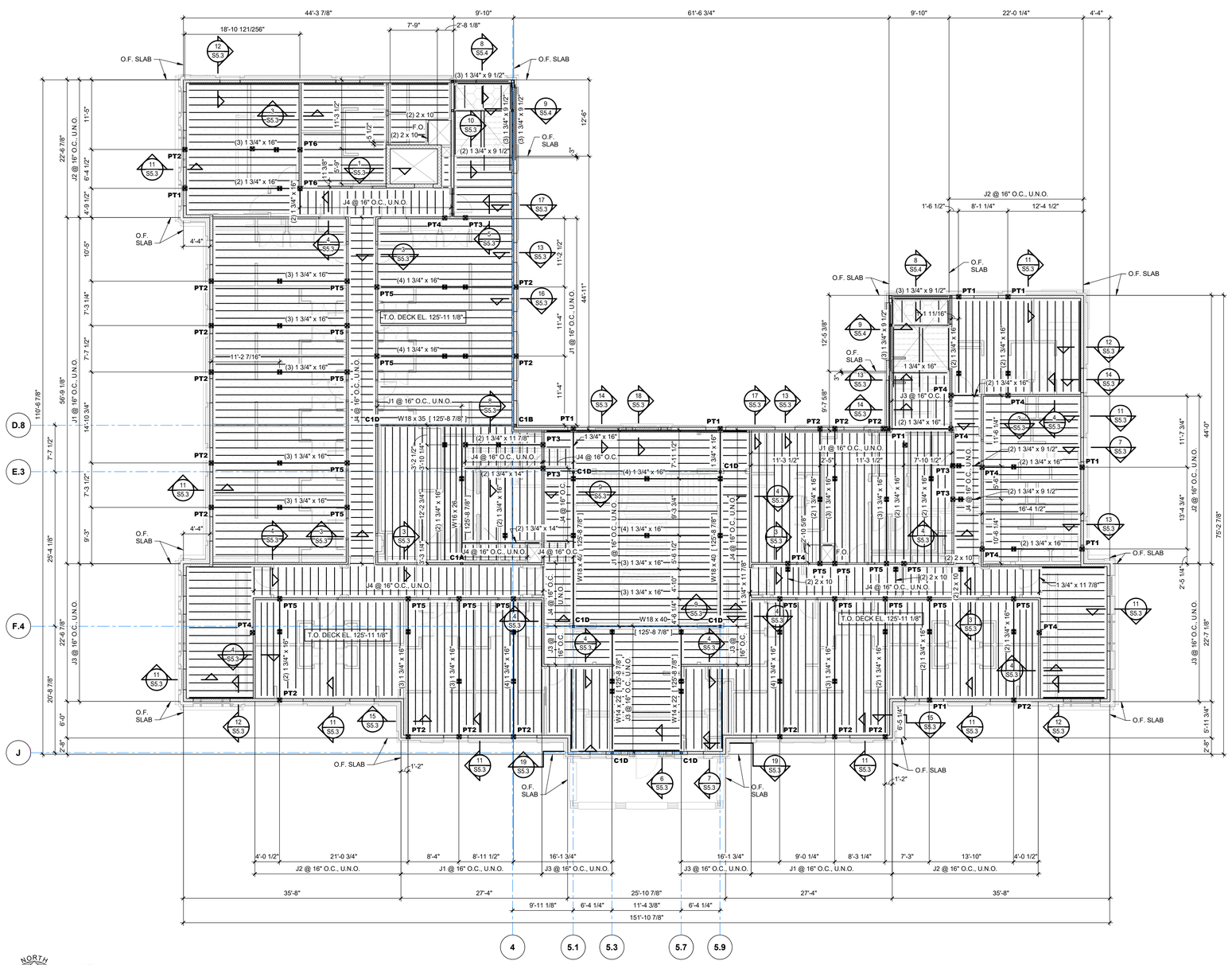
Sheet No.

S3.0.1

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc
No. 208
ARKANSAS ENGINEER

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH


147'-8 1/8"
49'-10 7/8"
61'-0"
32'-4 5/8"
(10) EQ. SPA. = 49'-4 7/8"
T.O. SLAB EL. 113'-0"
T.O. SLAB EL. 114'-0"
T.O. DECK EL. 108'-1 1/2"
T.O. SLAB EL. 113'-5 3/4"
O.F. SLAB
C1C W21 x 44 <32> [112'-7"]
C1B W14 x 22 <18> [112'-7"]
W27 x 84 <32>
W24 x 55 <32>
W24 x 55 <20>
W24 x 55 <18>
W24 x 55 <28>
W24 x 76 <26>
W16 x 31 <18>
W18 x 35 <18>
W18 x 35 <26>
W18 x 35 <28>
W18 x 40 <26>
W18 x 65 <28>
W21 x 44 <28>
W24 x 62 <26>
W18 x 40 <14>
W21 x 44 <18>
W12 x 14 <3>
W8 x 10 <6>
W8 x 10 <4>
W8 x 10 <8>
W8 x 10 <10>
W8 x 10 <12>
W8 x 10 <22>
W6 x 9 <4>
(3) EQ. SPA. = 14'-6 1/4"
5 EQ. SPA. = 24'-11 3/4"
5 EQ. SPA. = 22'-2 3/8"
3 EQ. SPA. = 13'-10 1/2"
(5) EQ. SPA. = 21'-11 1/2"
(5) EQ. SPA. = 22'-0 219/256"
(6) EQ. SPA. = 25'-4 7/8"
6 EQ. SPA. = 27'-4"
(4) EQ. SPA. = 18'-0 1/8"
(4) EQ. SPA. = 16'-4"
(5) EQ. SPA. = 22'-1"
4'-4" 1" 12'-5" 18'-10" 18'-0 7/8" 4 1/2" 6'-7 5/8" 3'-8 1/2" 7 1/2" 4'-4"
4'-4 5/8" 3" 3 5/8" 3"
22'-8" 22'-7 3/8" 22'-0 7/8" 22'-8 1/8" 22'-11 5/8" 11'-4" 56'-7 7/8" 7'-7 1/2" 3'-8 1/2" 11'-6 5/8" 1" 10'-0" 12'-0 7/8" 22'-8 1/8" 6'-0" 6'-0" 2'-8" 2'-8" 8'-8" 133'-3 1/2"
3 5/8" 5" 3 5/8" 3 5/8" 3 5/8



LEGEND:

- C1 — DENOTES COLUMN MARK (SEE COL. SCHED. ON THIS SHEET)
- PT1 — DENOTES LOCATION OF BUILT-UP WOOD POST BELOW (SEE POST SCHED. ON THIS SHEET)
- DENOTES LOCATION OF BUILT-UP WOOD POST ABOVE (SEE ROOF FRAMING PLAN FOR LOCATIONS)
- O.F. — DENOTES OUTSIDE FACE
- JBE — DENOTES JOIST BEARING ELEVATION
- J1 — DENOTES 16" DEEP TJI 360 JOIST
- J2 — DENOTES 16" DEEP TJI 230 JOIST
- J3 — DENOTES 11 7/8" DEEP TJI 110 JOIST
- J4 — DENOTES 2 x 10 JOIST
- 114'-0" — DENOTES TOP OF DECK EL.
- DENOTES LOAD-BEARING STUD WALL
- DENOTES LOAD-BEARING CMU WALL
- DENOTES LIMITS OF RECESSED FLOOR DECK AT SHOWERS
- DENOTES LIMITS OF GYPCRETE ON 3/4" PLYWOOD FLOOR DECK (SEE PLAN NOTES)
- DENOTES LIMITS OF STAIR LANDING SLAB & DECK (SEE SHEET S3.4)
- F.O. — DENOTES LIMITS OF FRAMED OPENING IN FLOOR- COORDINATE SIZE & LOCATION W/ MECH.

PLAN NOTES:

1. TYP. ELEVATED FLOOR CONSTRUCTION: 3/4" GYP-CRETE ON 1/8" SOUND MAT (SEE ARCH.) ON 3/4" (23/32" MIN. NOMINAL) APA RATED PLYWOOD SHEATHING (24" O.C.) W/ STRUCTURAL 1 CLASSIFICATION. ATTACH DECK TO FLOOR JOISTS W/ 10d COMMON NAILS @ 6" O.C. ALONG PANEL EDGES & 12" O.C. @ INTERMEDIATE FRAMING. PROVIDE SHEATHING CLIPS BETWEEN JOISTS.
2. TOP OF ELEVATED DECK EL. SEE PLAN
3. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0", ACTUAL FIN. FLR. EL. 1394.5' AS ESTABLISHED BY DUKE DESIGN GROUP.
4. SEE DWGS. S1.2, S1.3, & S1.4 FOR GENERAL NOTES & TYPICAL DETAILS.
5. SEE THIS DWG. FOR POST SCHEDULE.
6. SEE ARCH. DWGS. & FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.
7. SEE DWGS. S3.0 & S3.01 FOR LINTEL PLANS & DETAILS.

1 THIRD FLOOR FRAMING PLAN

1/8" = 1'-0"

COLUMN SCHEDULE

MARK	COLUMN SIZE	BASE PL SIZE (t x B x D)	BASE PL TYPE (SEE DTL. 5/S1.4)	ANCHOR RODS (SEE DTL. 6/S1.4)	CAP PL THICKNESS
C1A	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE I	(4) 3/4" F1554	1/4"
C1B	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE II	(4) 3/4" F1554	1/4"
C1C	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE III	(4) 3/4" F1554	1/4"
C1D	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE IV	(4) 3/4" F1554	1/4"
C2A	HSS5 1/2 x 5 1/2 x 3/8	3/4" x 12" x 12"	TYPE II	(4) 3/4" F1554	1/4"
C2B	HSS5 1/2 x 5 1/2 x 3/8	3/4" x 12" x 12"	TYPE III	(4) 3/4" F1554	1/4"
C3A	HSS6 x 6 x 3/8	3/4" x 12" x 12"	TYPE II	(4) 3/4" F1554	1/4"
C3B	HSS6 x 6 x 3/8	3/4" x 12" x 12"	TYPE III	(4) 3/4" F1554	1/4"
C4	HSS7 x 7 x 1/2	3/4" x 14" x 14"	TYPE I	(4) 3/4" F1554	1/4"
C5	HSS8 x 8 x 5/8	3/4" x 14" x 14"	TYPE I	(4) 3/4" F1554	1/4"
SC1	HSS4 x 4 x 1/4	3/4" x 10" x 10"	TYPE I	(4) 3/4" F1554	1/4"

POST SCHEDULE

MARK	POST SIZE	POST BASE TYPE	POST ATTACHMENT	POST BASE ANCHOR	POST CAP/BEAM ATTACHMENT
PT1	(3) 2 x 6	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT2	(5) 2 x 6	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT3	(4) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT4	(5) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT5	(6) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT6	(7) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST

POST SCHEDULE NOTES:
1. IF POST OCCURS OVER WOOD HEADER, POST BASE ATTACHMENT TO HEADER SHALL BE (2) LCE4 FROM POST TO HEADER.

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title THIRD FLOOR FRAMING PLAN

Sheet No. **S3.2**

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
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TSW #: 24198 PM: BLO DE: KOH

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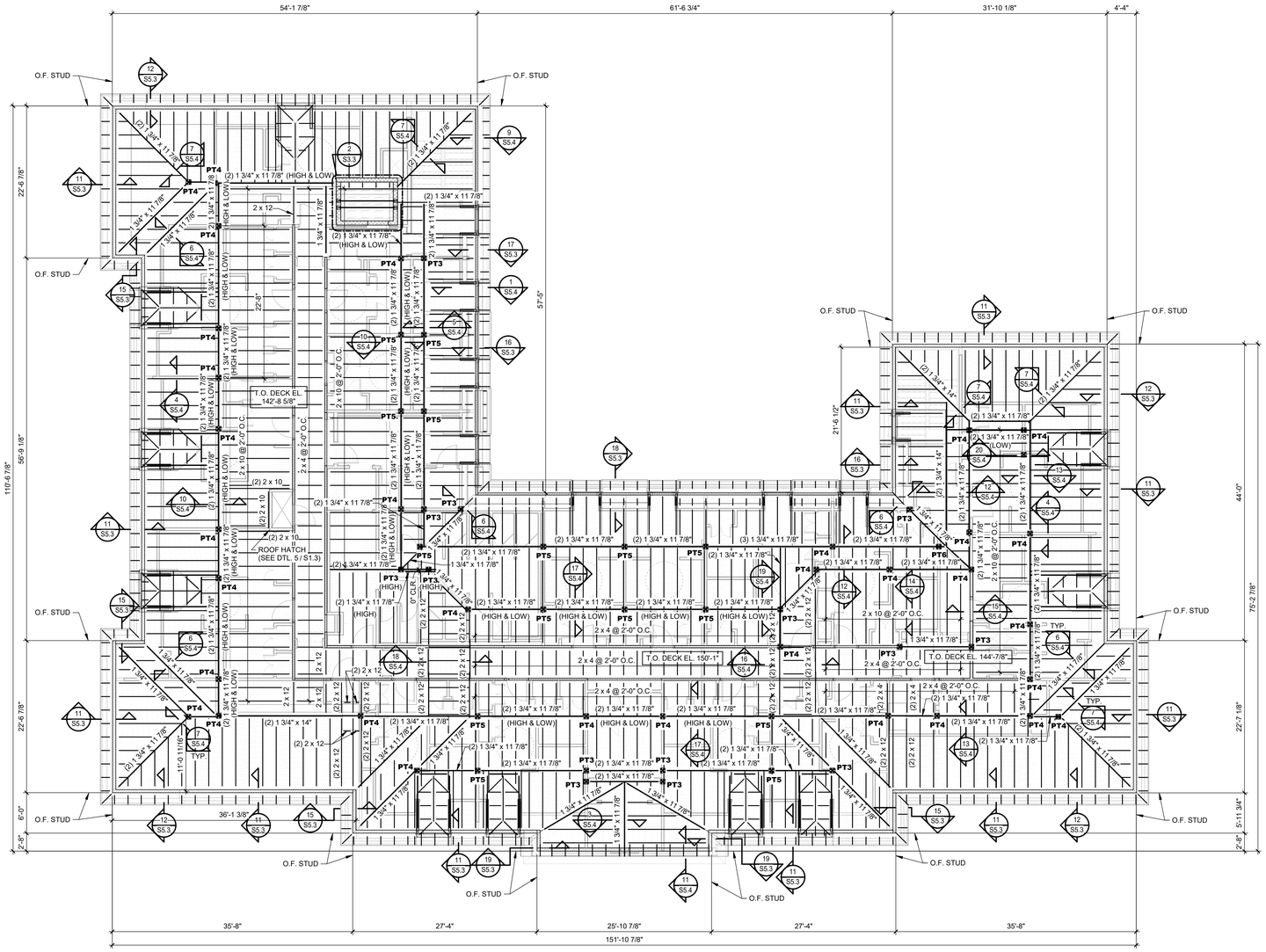
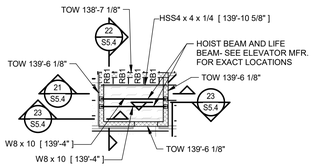


1 ROOF FRAMING PLAN

1/8" = 1'-0"



2 ELEVATOR ROOF FRAMING PLAN

1/8" = 1'-0"

POST SCHEDULE

MARK	POST SIZE	POST BASE TYPE	POST ATTACHMENT	POST BASE ANCHOR	POST CAP/BEAM ATTACHMENT
PT1	(3) 2 x 6	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT2	(5) 2 x 6	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT3	(4) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT4	(5) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT5	(6) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST
PT6	(7) 2 x 4	RPBZ	(4) 1/4" x 1 1/2" SDS	(2) 3/8"Ø THREADED RODS	(2) LCE4 W/ (14) 16d NAILS TO BEAM & (10) 16d NAILS TO POST

LEGEND (ALL PLANS):

- PT1 — DENOTES LOCATION OF BUILT-UP WOOD POST BELOW (SEE POST SCHED. ON THIS SHEET)
- O.F. — DENOTES OUTSIDE FACE
- TOW — DENOTES TOP OF WALL
- RB1 — DENOTES HSS3 x 3 x 1/4 BEAM AT ELEVATOR ROOF
- DENOTES LIMITS OF 5/8" PLYWOOD ROOF SHEATHING (SEE PLAN NOTES)
- DENOTES LIMITS OF 1 1/2" x 22 GA. ROOF DECK AT ELEVATOR SHAFT (SEE PLAN NOTES)

PLAN NOTES (ALL PLANS):

1. ROOF SHEATHING AT MAIN ROOF: 5/8" APA RATED (40/20) PLYWOOD SHEATHING W/EXPOSURE 1 CLASSIFICATION. ATTACH SHEATHING TO TRUSSES/RAFTERS W/10d COMMON NAILS @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. AT INTERMEDIATE FRAMING. PROVIDE SHEATHING CLIPS BETWEEN TRUSSES/RAFTERS.
2. ROOF DECK AT ELEVATOR: 1 1/2" DEEP, 22 GA. PAINTED WIDE RIB STEEL DECK (SEE STEEL DECK GENERAL NOTES FOR ATTACHMENT REQUIREMENTS).
3. ALL RAFTERS TO BE 2 x 12 SYP. NO. 2 @ 16" O.C., U.N.O.
4. RAFTER BEARING ELEVATION VARIES, SEE PLAN.
5. ALL ELEVATIONS BASED ON MAIN LEVEL FINISH FLOOR EL. 100'-0". ACTUAL FIN. FLR. EL. 1394.5' AS ESTABLISHED BY DUKE DESIGN GROUP.
6. SEE DWGS. S1.2, S1.3 & S1.4 FOR GENERAL NOTES AND TYPICAL DETAILS.
7. SEE ARCH. DWGS., FOUNDATION, & FLOOR FRAMING PLANS FOR DIMENSIONS NOT SHOWN.

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title ROOF FRAMING PLANS

Sheet No. **S3.3**

CERTIFICATE OF AUTHORIZATION — Tatum Smith Welcher Engineers, Inc. No. 218 — ARKANSAS ENGINEERING

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KOH

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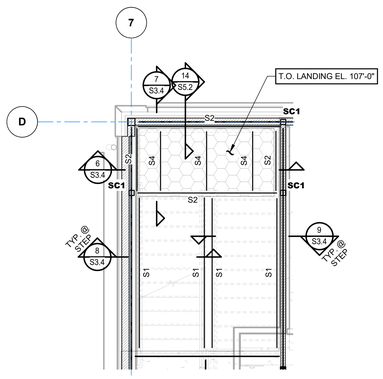
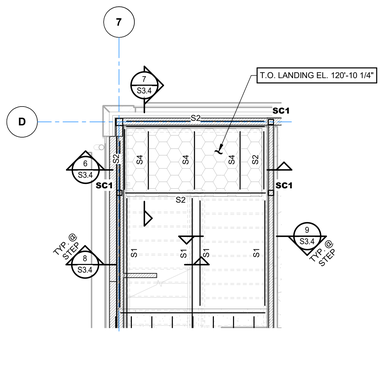
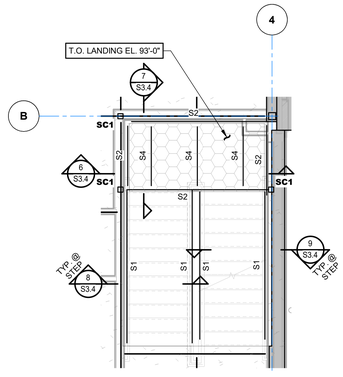


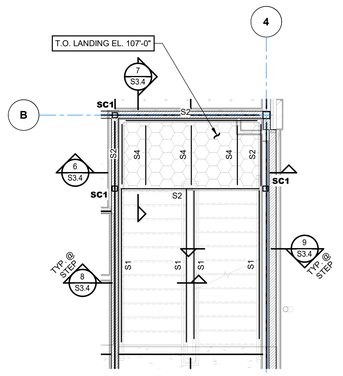
1 STAIR "A" - LANDING SLAB 1
1/4" = 1'-0"



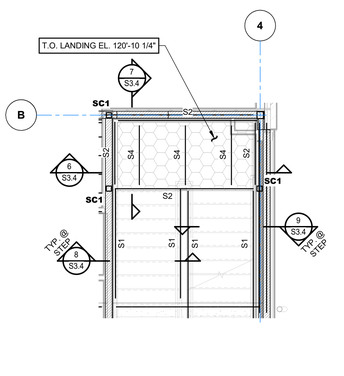
2 STAIR "A" - LANDING SLAB 2
1/4" = 1'-0"



3 STAIR "B" - LANDING SLAB 1
1/4" = 1'-0"



4 STAIR "B" - LANDING SLAB 2
1/4" = 1'-0"



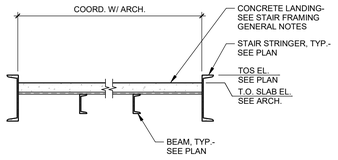
5 STAIR "B" - LANDING SLAB 3
1/4" = 1'-0"

LEGEND (ALL PLANS):

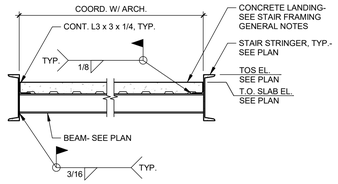
SC1	DENOTES HSS4 x 4 x 1/4 STAIR POST
O.F.	DENOTES OUTSIDE FACE
S1	DENOTES MC12 x 14.3 STAIR STRINGER
S2	DENOTES BROKEBACK MC12 x 14.3 STAIR STRINGER
S3	DENOTES MC12 x 14.3 STAIR LANDING FRAMING
S4	DENOTES C5 x 9 STAIR LANDING FRAMING
114'-0"	DENOTES TOP OF LANDING EL.
	DENOTES LOAD-BEARING STUD WALL
	DENOTES LIMITS OF STAIR LANDING SLAB & DECK (SEE PLAN NOTES)

PLAN NOTES (ALL PLANS):

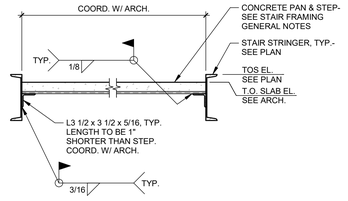
1. ELEVATED STAIR LANDING SLAB CONSTRUCTION: 3" CONCRETE SLAB REINFORCED W/ 6 x 6-W2.0 x W2.0 WWF ON 9/16" DEEP, 24 GAUGE, GALVANIZED FORM DECK. PLACE WWF 1" CLR. FROM TOP OF SLAB.
2. TOP OF ELEVATED LANDING EL. SEE PLAN.
3. ALL ELEVATIONS BASED ON FINISH FLOOR EL. 100'-0", ACTUAL FIN. FLR. EL. 1394.5' AS ESTABLISHED BY DUKE DESIGN GROUP.
4. SEE DWGS. S1.2, S1.3, & S1.4 FOR GENERAL NOTES & TYPICAL DETAILS.
5. SEE ARCH. DWGS. & FOUNDATION PLAN FOR DIMENSIONS NOT SHOWN.



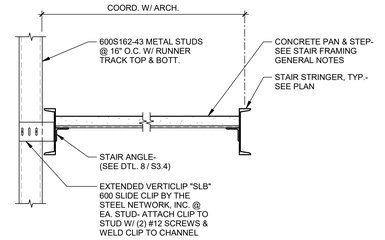
6 SECTION
3/4" = 1'-0"



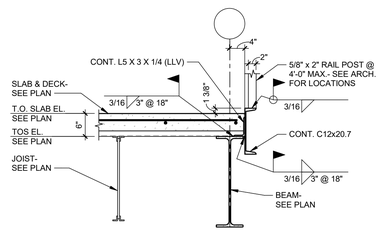
7 SECTION
3/4" = 1'-0"



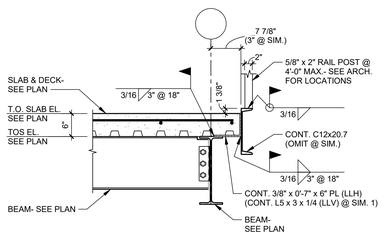
8 SECTION
3/4" = 1'-0"



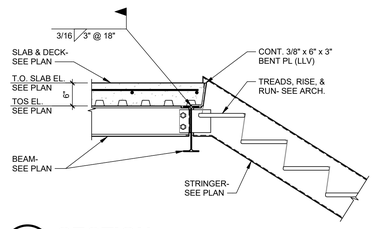
9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"



12 SECTION
3/4" = 1'-0"

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DUNCAN L. DOWD
12.18.2025

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title STAIR "A" & "B" LANDING FRMG PLANS & DTLS

Sheet No. **S3.4**

CERTIFICATE OF AUTHORIZATION — Tatum Smith Welcher Engineers, Inc. No. 218 — ARKANSAS ENGINEERING

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
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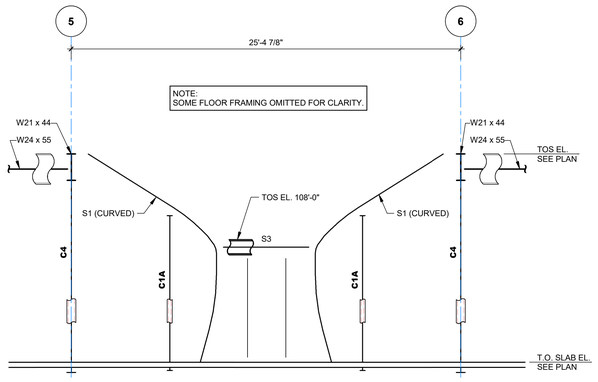
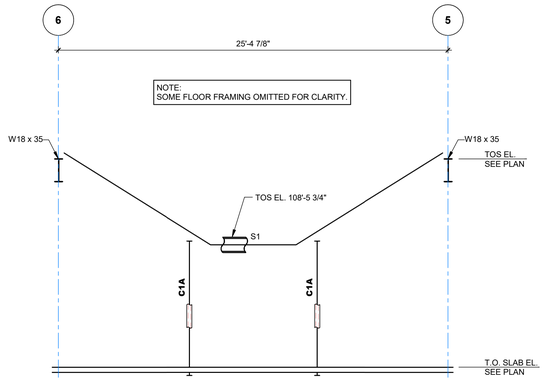


1 PARTIAL ELEVATION LOOKING NORTH

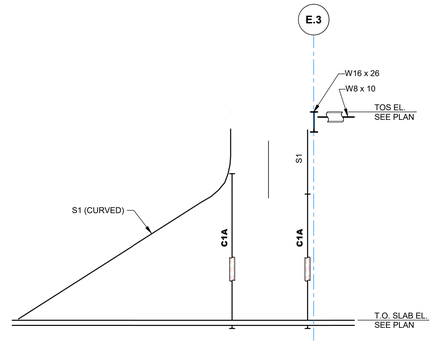
1/4" = 1'-0"

NOTE:
SEE DRAWING S3.1 FOR
LEGEND AND PLAN NOTES



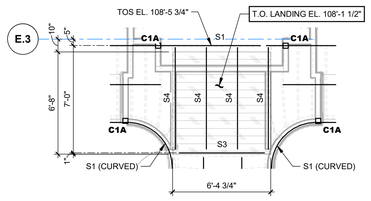
2 PARTIAL ELEVATION LOOKING SOUTH

1/4" = 1'-0"



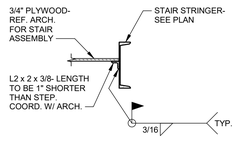
3 PARTIAL ELEVATION LOOKING WEST

1/4" = 1'-0"



4 STAIR HALL LANDING SLAB

1/4" = 1'-0"



5 TYP. SECTION AT STAIR HALL LANDING STEP

3/4" = 1'-0"

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BRIANNA L. GILBERT
12.18.2025

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Job No. UAFAPH-21.01

Date 12.18.2025

Title STAIR HALL ELEVS & LANDING FRMG PLAN

Sheet No. **S3.5**

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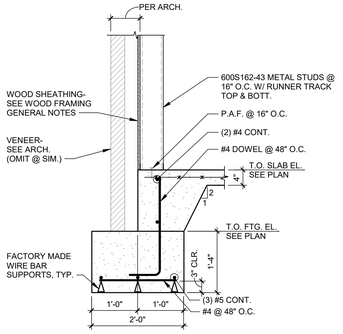
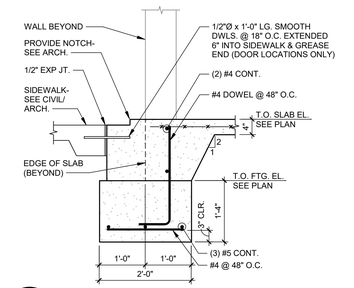
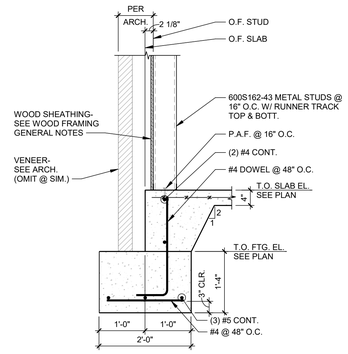
TSW #: 24198 PM: BLO DE: KDH



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"



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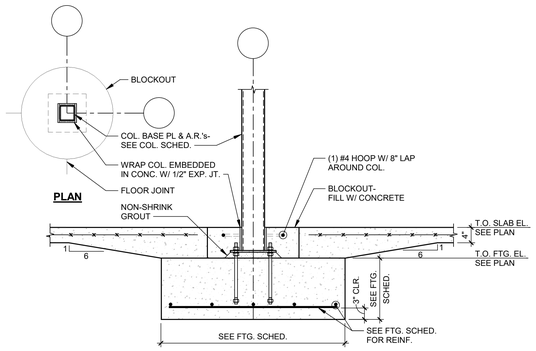
3/4" = 1'-0"



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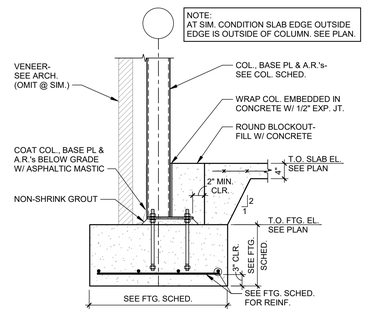
3/4" = 1'-0"



5 SECTION
3/4" = 1'-0"

6 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"

8 SECTION
3/4" = 1'-0"

9 SECTION
3/4" = 1'-0"

10 SECTION
3/4" = 1'-0"

11 SECTION
3/4" = 1'-0"

12 SECTION
3/4" = 1'-0"

13 SECTION
3/4" = 1'-0"

14 TYP. SITE CANTILEVER RETAINING WALL DETAIL
3/4" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
No. 19778
BRIANNA L. CHAMBERS
12.18.2025

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

FOUNDATION DETAILS

Sheet No.

S4.1

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STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

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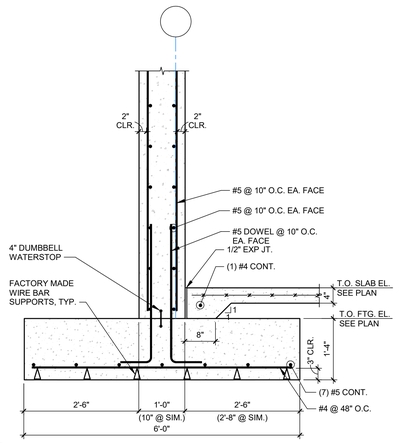

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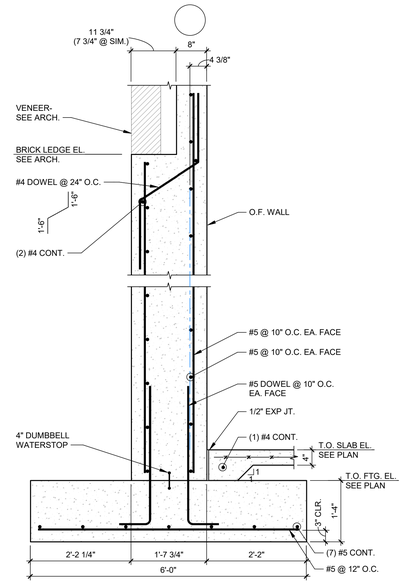
3/4" = 1'-0"



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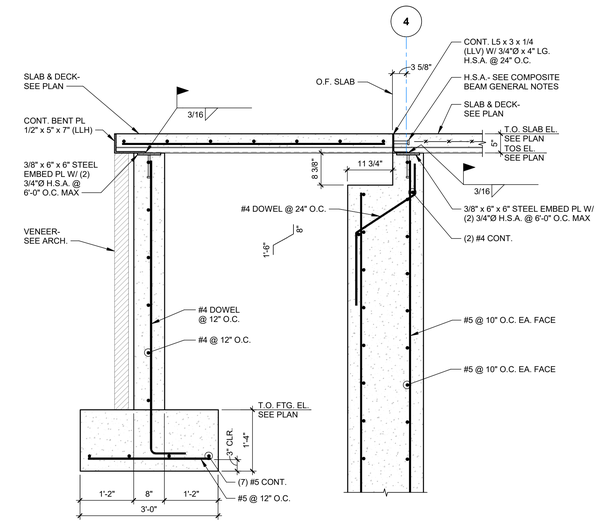

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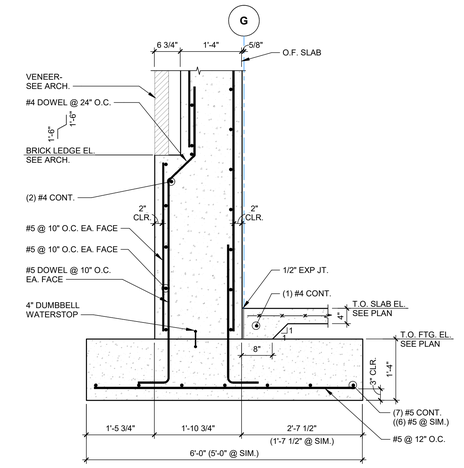
3/4" = 1'-0"



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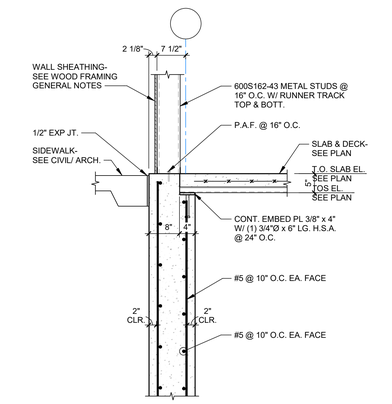
3/4" = 1'-0"



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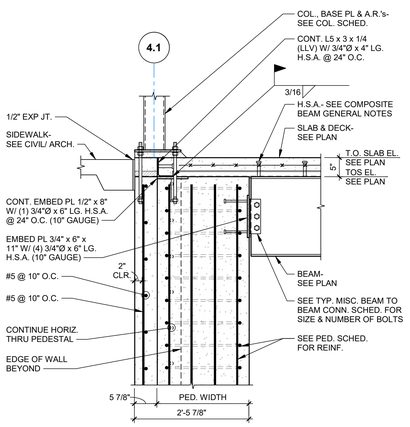
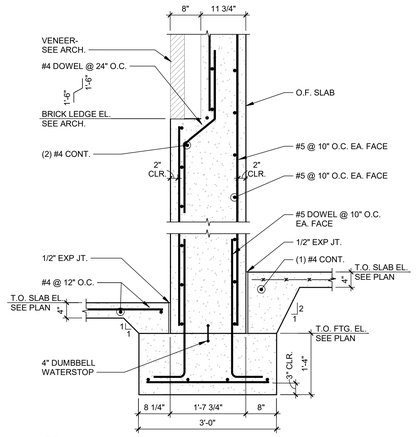


6 SECTION
3/4" = 1'-0"

7 SECTION
3/4" = 1'-0"



8 SECTION
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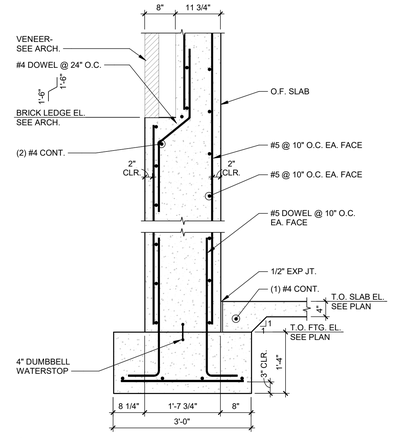

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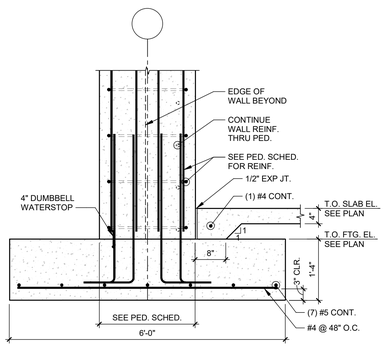

10 SECTION
3/4" = 1'-0"

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Denver, CO 80210

Seal

STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER No. 19778 JOHNNA L. DOSS
12.18.2025

100% CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

FOUNDATION DETAILS

Sheet No.

S4.2

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

CERTIFICATE OF AUTHORIZATION Tatum Smith Welcher Engineers, Inc. No. 238 ARKANSAS ENGINEERING

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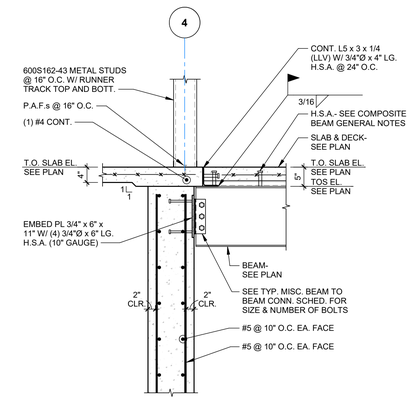

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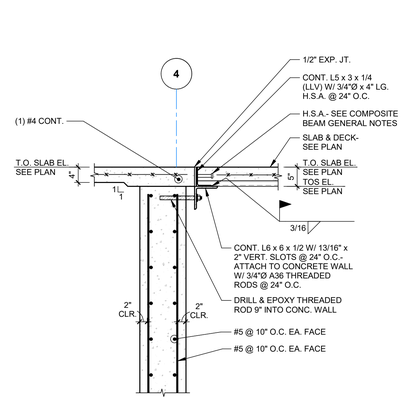

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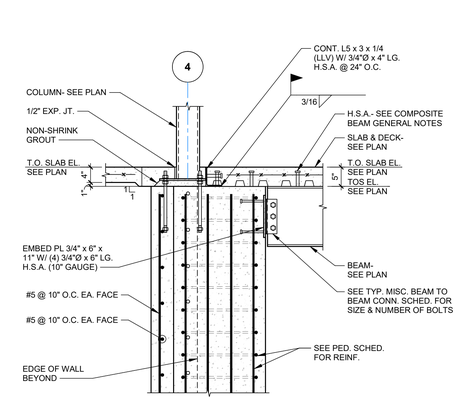

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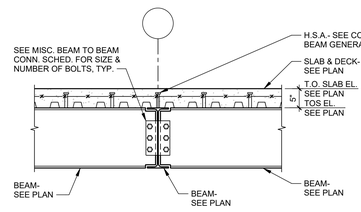

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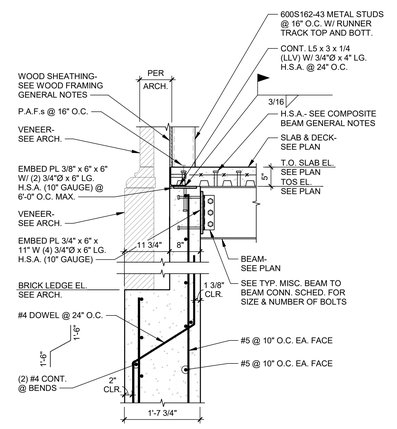

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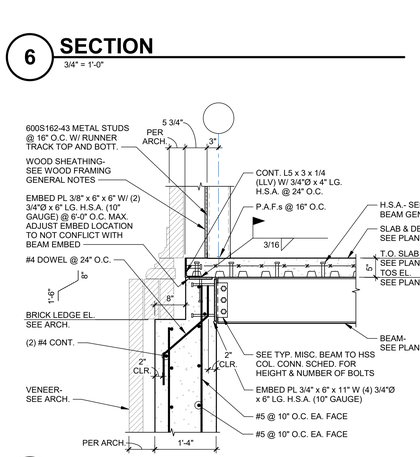

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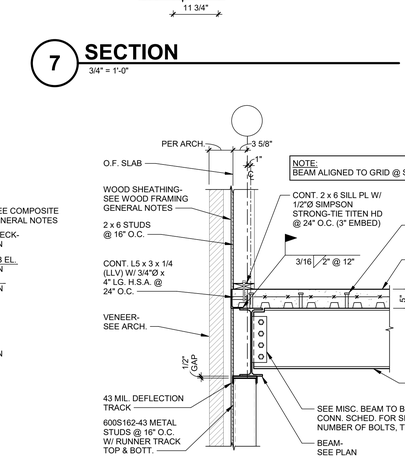

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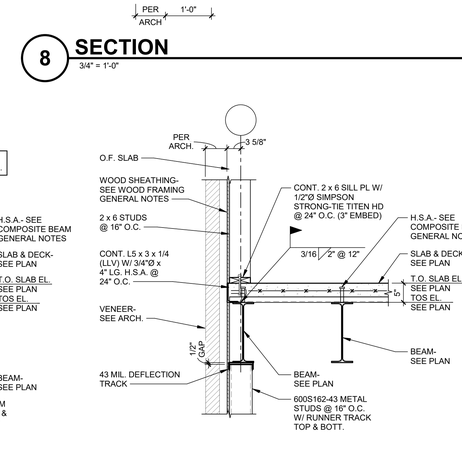

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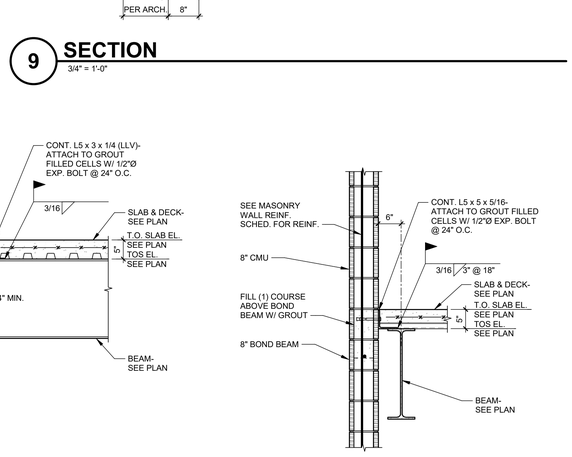


9 SECTION
3/4" = 1'-0"

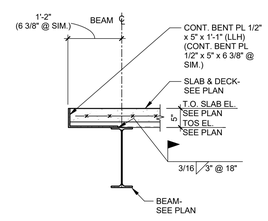
10 SECTION
3/4" = 1'-0"

11 SECTION
3/4" = 1'-0"

12 SECTION
3/4" = 1'-0"

13 SECTION
3/4" = 1'-0"

14 SECTION
3/4" = 1'-0"



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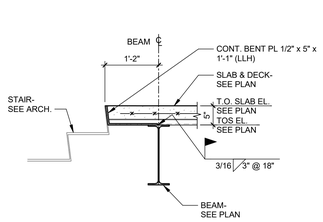

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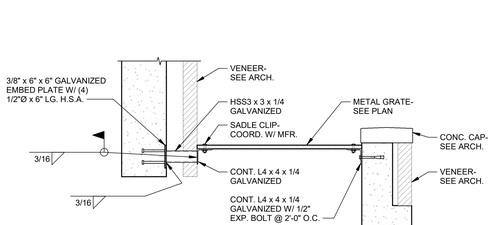

17 SECTION
3/4" = 1'-0"

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STATE OF ARKANSAS ★★★ LICENSED PROFESSIONAL ENGINEER ★★★ No. 19778 JOSHUA L. DAVIS 12.18.2025

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

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FRAMING DETAILS

Sheet No.

S5.1

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

CERTIFICATE OF AUTHORIZATION Tatum Smith Welcher Engineers, Inc No. 238 ARKANSAS ENGINEERING

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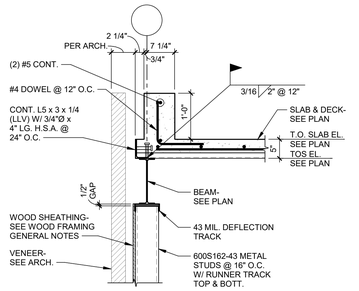

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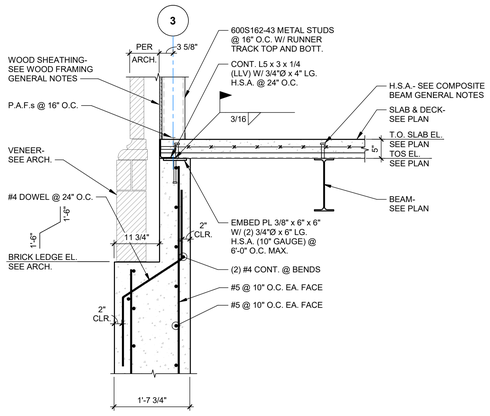

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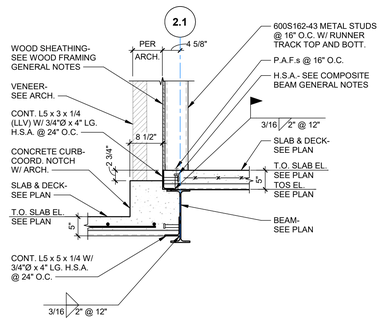

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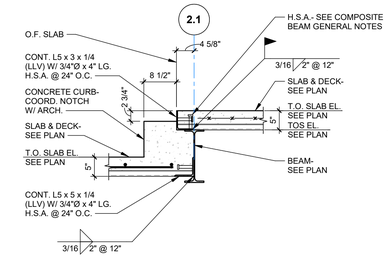

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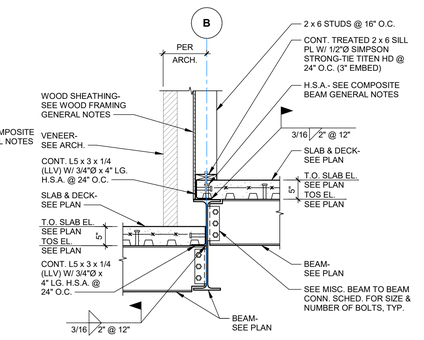

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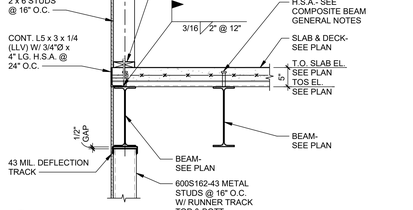

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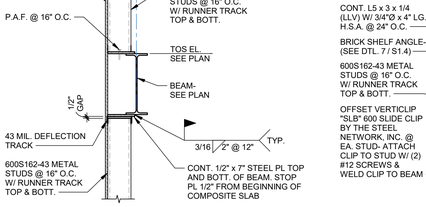

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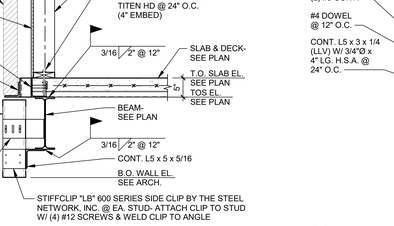

8 SECTION
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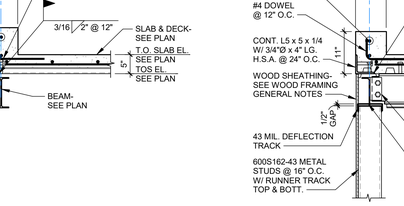

9 SECTION
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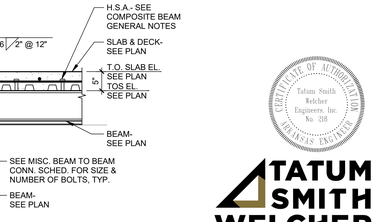

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11 SECTION
3/4" = 1'-0"

12 SECTION
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13 SECTION
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14 SECTION
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15 SECTION
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16 SECTION
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17 SECTION
3/4" = 1'-0"

18 SECTION
3/4" = 1'-0"

19 SECTION
3/4" = 1'-0"

20 SECTION
3/4" = 1'-0"

21 SECTION
3/4" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
No. 19778
JOANNA L. ONSBY
12.18.2025

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Job No. UAFAPH-21.01

Date 12.18.2025

Title

FRAMING DETAILS

Sheet No.

S5.2

ATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

CERTIFICATE OF AUTHORIZATION Tatum Smith Welcher Engineers, Inc. No. 318

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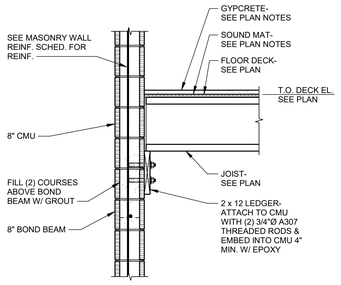

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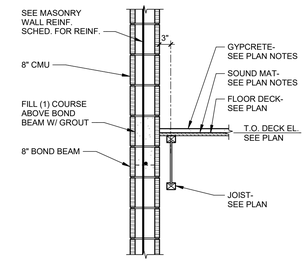

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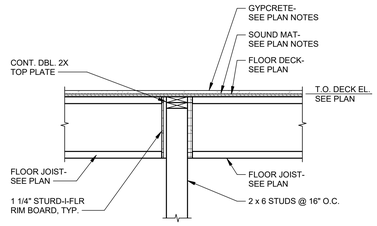

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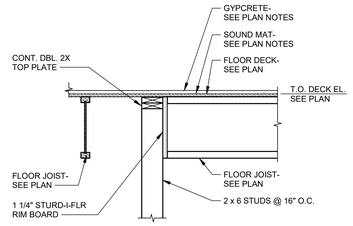

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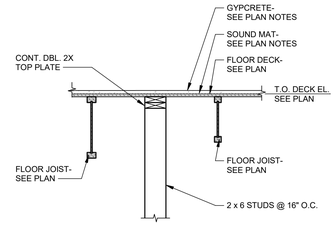

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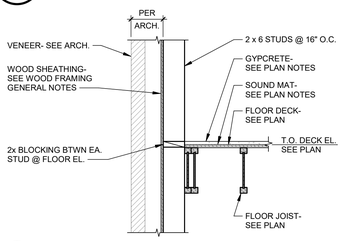

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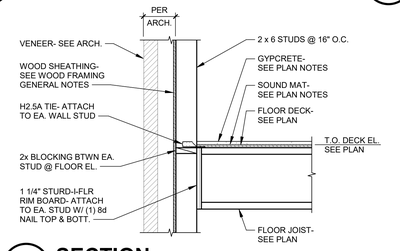
3/4" = 1'-0"



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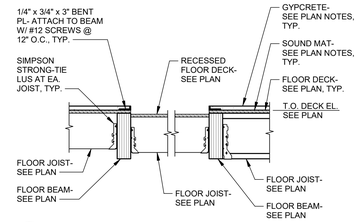

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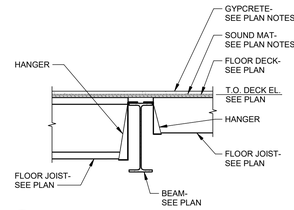

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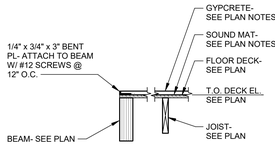

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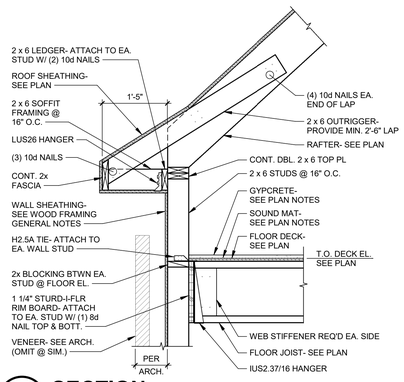

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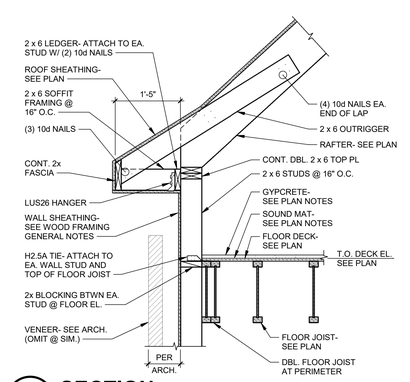

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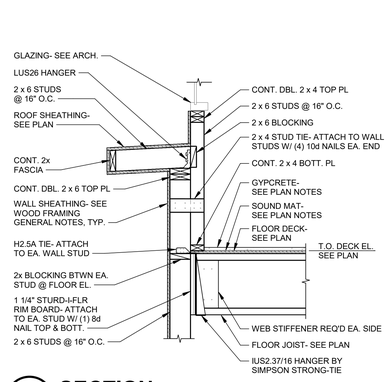

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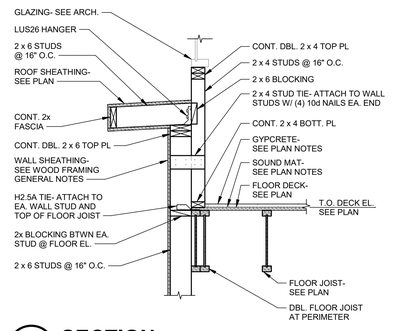

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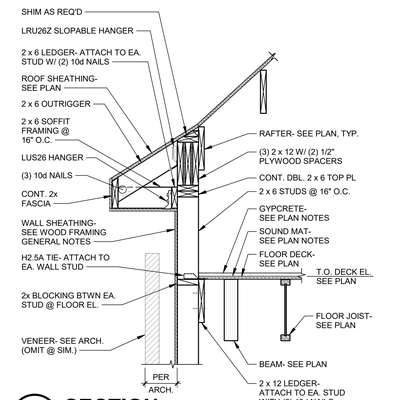

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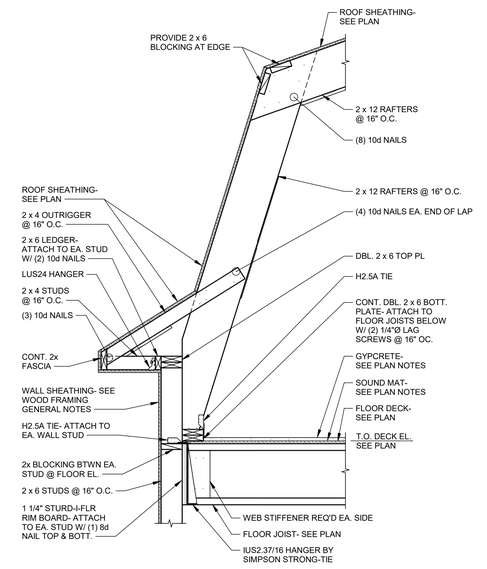

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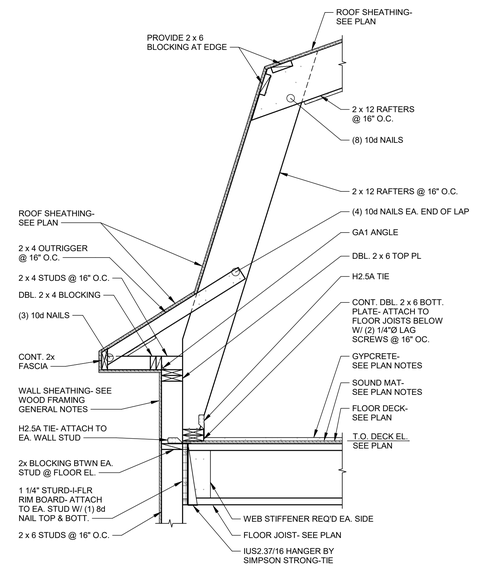

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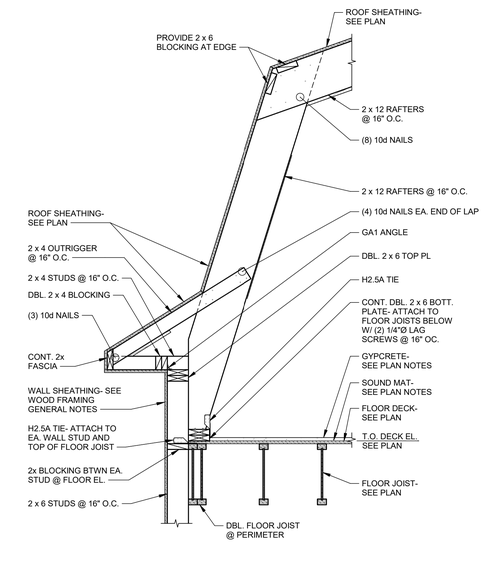

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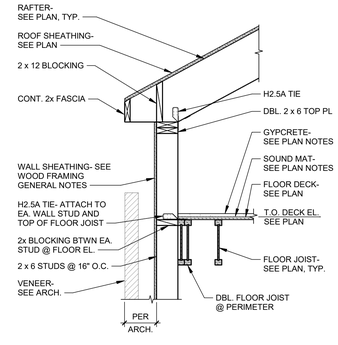

19 SECTION
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LICENSED PROFESSIONAL ENGINEER
No. 19778
JOANNA L. OWENS
12.18.2025

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

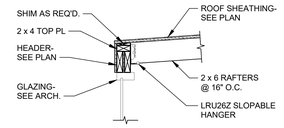
Title

FRAMING DETAILS

Sheet No.

S5.3

CERTIFICATE OF AUTHORIZATION
Tatum Smith Welcher Engineers, Inc. No. 218
TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH



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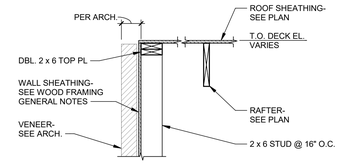

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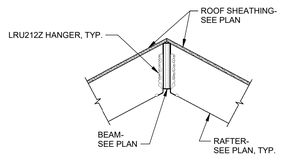

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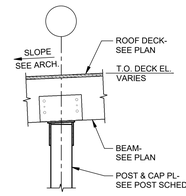

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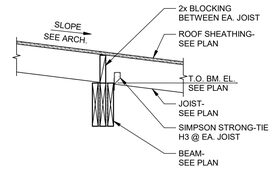

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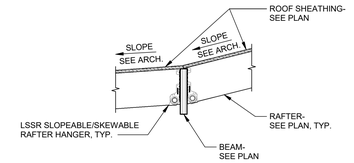

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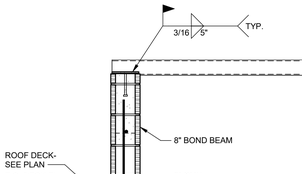

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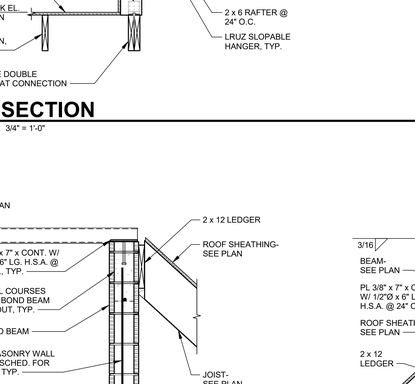

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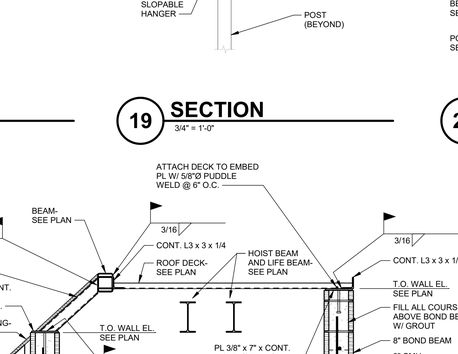

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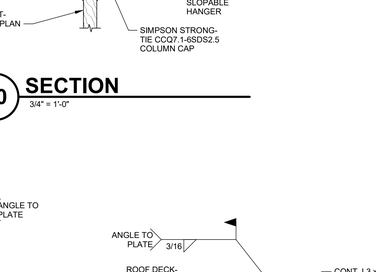

10 SECTION
3/4" = 1'-0"



11 SECTION
3/4" = 1'-0"

12 SECTION
3/4" = 1'-0"

13 SECTION
3/4" = 1'-0"

14 SECTION
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15 SECTION
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16 SECTION
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17 SECTION
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19 SECTION
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21 SECTION
3/4" = 1'-0"

22 SECTION
3/4" = 1'-0"

23 SECTION
3/4" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
No. 19778
BRIANNA L. CHAMBERS
12.18.2025

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S5.4

TATUM SMITH WELCHER
STRUCTURAL ENGINEERS
(479) 621-6128 ROGERS, ARKANSAS
TSW #: 24198 PM: BLO DE: KDH

Certificate of Authorization — Tatum Smith Welcher Engineers, Inc. No. 218 — Arkansas Engineering

U of A Alpha Phi House
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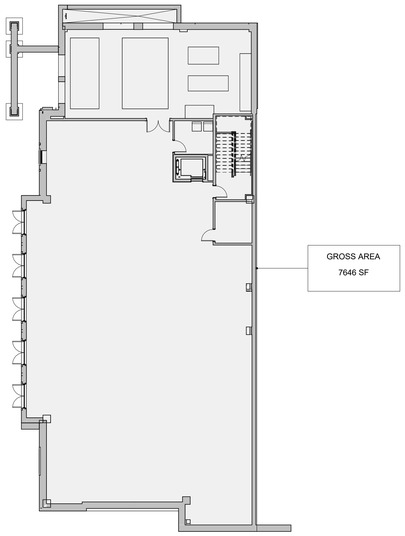
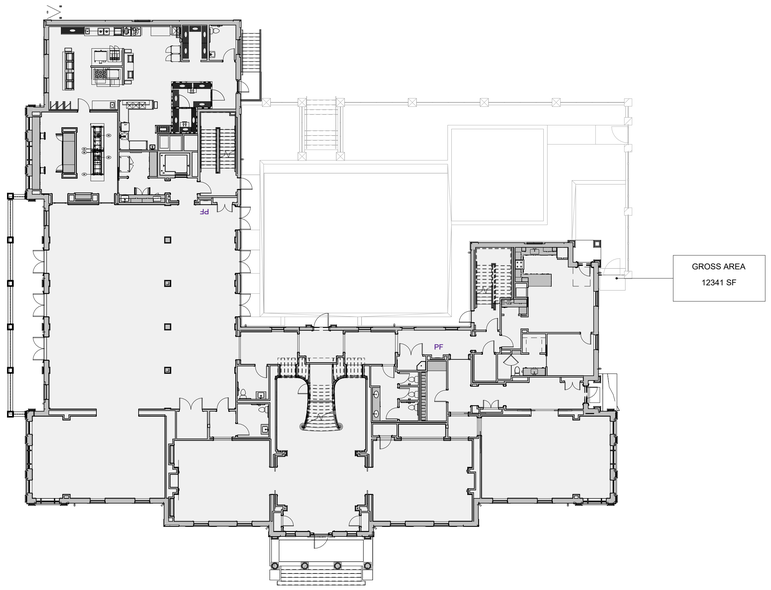
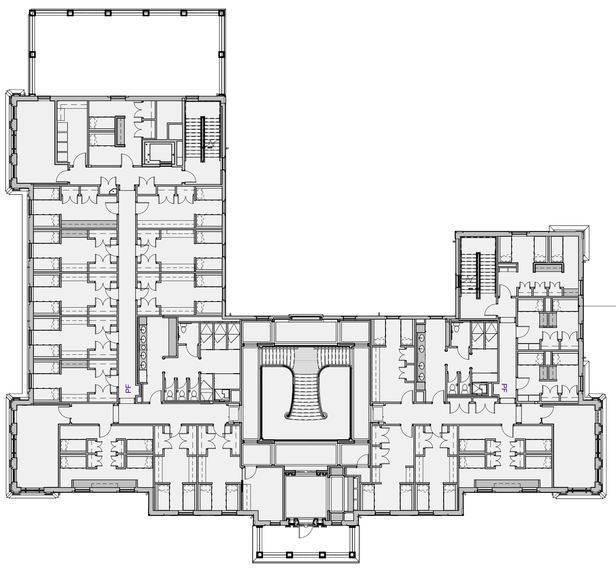


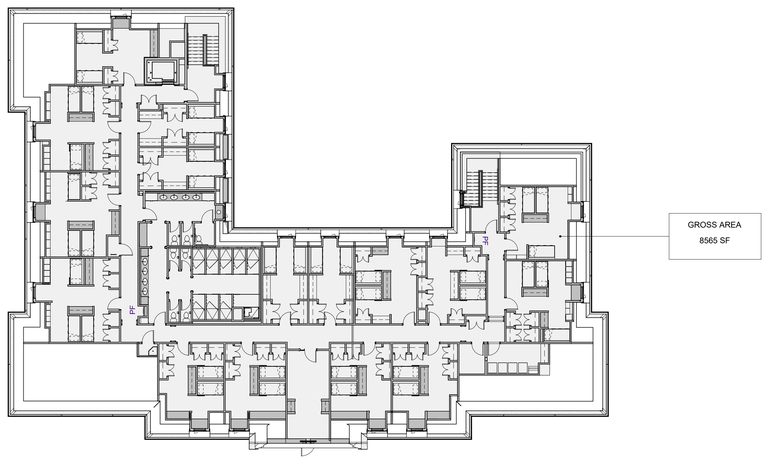
1 AREA PLAN - LOWER LEVEL
1/16" = 1'-0"



2 AREA PLAN - GROUND FLOOR
1/16" = 1'-0"



3 AREA PLAN - SECOND FLOOR
1/16" = 1'-0"



4 AREA PLAN - THIRD FLOOR
1/16" = 1'-0"

BUILDING GROSS AREA

LOWER LEVEL	7,646 GSF
GROUND FLOOR	12,341 GSF
SECOND FLOOR	11,220 GSF
THIRD FLOOR	8,565 GSF
OVERALL GROSS	**39,772 GSF**

*GROSS AREA CALCULATIONS ARE TO OUTSIDE FACE OF EXTERIOR WALL FOLLOWING ALL PROJECTIONS AND INDENTS

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WER NORTHWEST ARKANSAS, PLLC
NO. LL-208
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BUILDING GROSS AREA DIAGRAMS

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A0.01

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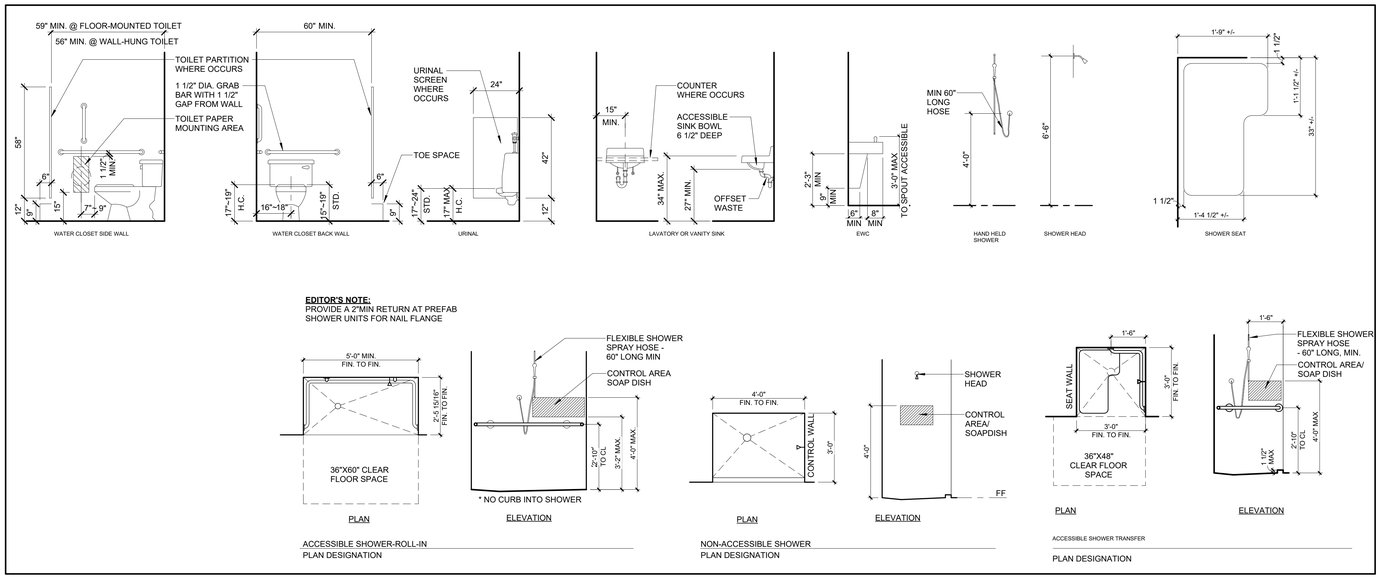
TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS



EDITOR'S NOTE:
PROVIDE A 2"MIN RETURN AT PREFAB SHOWER UNITS FOR NAIL FLANGE

TYPICAL TOILET AND MISCELLANEOUS ACCESSORIES MOUNTING HEIGHTS & SYMBOLS

DRAWING ABBREVIATIONS

AB Anchor Bolt
ACS Architectural Cast Stone
ACT Acoustical Ceiling Tile
AD Area Drain
ADD Addendum
ADD'L Additional
ADJ Adjacent
AFF Above Finished Floor
AGGR Aggregate
ALUM Aluminum
ALT Alternate
ANOD Anodized
AP Access Panel
APPROX Approximate
ARCH Architectural
AWP Acoustical Wall Panel
BB Bulletin Board
B.M. Bench Mark
BD Board
BETW Between
BF Backface
BG Bumper Guard
BL Bed Locator
BL Building Line
BLDG Building
BLKG Blocking
BM Beam
BOT Bottom
BR Bumper Rail
BRD Marker Board/ Chalk Board
BRG Bearing
BRK Brick
BSMT Basement
BU ROD Back-Up Rod
BUR Built-Up Roof
BW Bearing Wall
C Compact Parking Space
CDR Card Reader
CEM Cement
CGD Corner Guard
CJ Control Joint
CL Center Line
CLG Ceiling
CLR Clear
CMB Concrete Masonry Base
CMTS Cementitious
CMU Concrete Masonry Unit
COL Column
COMM Communications
CONC Concrete
CONN Connection
CONST Construction
CONT Continuous
COORD Coordinate
CORR Corridor
CPT Carpet
CR Crash Rail
CRJ Construction Joint
CRT Ceramic Tile
CSK Countersunk
CTD Centered
CTR Center
CW Curtain Wall
D Depth
DBA Deformed Bar Anchor
DET Detail
DF Drinking Fountain
DIA Diameter
DIAPH Diaphragm
DIM Dimension
DISP Dispenser
DJ Deflection Joint
DK Desk
DL Dead Load
DN Down
DS Down Spout
DS Dishwasher
DWG Drawing
DWGS Drawings
DWLS Dowels
EA Each
EF Each Face
EIFS Exterior Insulation and Finish System
EJ Expansion Joint
EL Elevation
ELEC Electric
ELEV Elevator
EQ Equal
EQUIP Equipment
ESC Escalator
EW Each Way
EWC Electric Water Cooler
EXP BLT Expansion Bolt
EXT Exterior
FD Floor Drain
FDN Foundation
FE Fire Extinguisher
FEC Fire Extinguisher Cabinet
FF Finish Floor
FHC Fire Hose Cabinet
FIN Finish
FLR Floor
FMH Fume Hoods
FOS Face of Stud
FS Far Side
FT Foot
FTG Footing
FV Field Verify
FVC Fire Valve Cabinet
FXS Fixed Seating
GA Gauge
GALV Galvanized
GB Grade Beam
GDC Ground Concrete
GEN General
GFRC Glass-Fiber Reinforced Concrete
GI Galvanized Iron
GL Glass
GLS Glass Mosaic Tile
GND Ground
GRG Glass- Reinforced Gypsum
GRT Grout
GYP BD Gypsum Board
HB Hose Bib
HDW Hardware
HDWD Hardwood
HK Hook
HM Hollow Metal
HOR Horizontal
HP High Point
HR Hour
HS Headed Stud
HSKP Housekeeping
HT Height
HW Hand Wash
ID Inside Diameter
IM Ice Machine
INSUL Insulation
INT Interior
IPC Interior Paint Color
IPT Interior Paint
JT Joint
K Kips (1000 LB)
KO Knock-Out
KP Kickplate
KPD Keypad
KSP Kips Per Square Foot
L Angle
LAV Lavatory
LG Long
LKB Lockable
LKR Locker
LL Live Load
LLH Long Leg Horizontal
LLV Long Leg Vertical
LOC Location
LP Low Point
LT Light
LVT Luxury Vinyl Tile
LWC Lightweight Concrete
MAS Masonry
MAT'L Material
MAX Maximum
MBL Marble
MECH Mechanical
MEMB Membrane
MFG Manufacturer
MISC Miscellaneous
MO Masonry Opening
MOD BIT Modified Bitumen
MOD Modified
MSL Mean Sea Level
MTL Metal
MW Microwave
N/A Not Applicable
NA Not Available
NIC Not in Contract
NOM Nominal
NS Near Side
NTS Not to Scale
NWC Normal Weight Concrete
OA Over All
OC On Center
OD Outside Diameter
OD Overflow Drain
OFCI Owner Furnished, Contractor Installed
OFOI Owner Furnished, Owner Installed
OH Opposite Hand
OPNG Opening
OPP Opposite
OSF Outside Face
PL Plastic Laminate
PC Precast Concrete
PCF Pounds per Cubic Foot
PCT Porcelain Tile
PENT Penthouse
PL Property Line
PL Plate
PLUMB Plumbing
PLYWD Plywood
PP Push Plate
POL Polished
PORT CEM Portland Cement
PR Pair
PREFAB Prefabricated
PRP Plastic Resin Panel
PSF Pounds per Square Foot
PSI Pounds per Square Inch
PT Point
PTB Porcelain Tile Base
PTD Painted
R Riser
RAD Radius
RAF Rubberized Asphalt Flashing
RAM Rubberized Asphalt Membrane
RAU Rubberized Asphalt Underlayment
RB Rubber Base
RBB Rubber Base
RBT Rubber Tile
RCP Reflected Ceiling Plan
RD Roof Drain
REBAR Reinforcing Bar
RECP Receptacle
REF Refer or Reference
REINF Reinforcing
RELOC Relocate/ Relocated
REQ'D Required
RFVC Recessed Fire Valve Cab
RM Room
RO Rough Opening
SAB Sound Attenuation Blanket
SBC Standard Building Code
SCHED Schedule
SDL Superimposed Dead Load
SECT Section
SHT Sheet
SHWR Shower
SIM Similar
SLC Sealed Concrete
SO Structural Opening
SOG Slab on Grade
SP Stand Pipe
SPA Space or Spacing
SPEC Specification
SQ Square
SSC Solid Surface
SS Stainless Steel
STA Station
STC Sound Transmission Class
STC Stained Concrete
STD Standard
STIFF Stiffener
STIR Stirrup
STL Steel
STRUC Structural
SWC Specialty Wall Covering
SYM Symmetrical
SVL - Sheet Vinyl
SYS System
T Tread
T&B Top and Bottom
TB Twin Bed
TC Top of Curb
TEL Telephone
TEMP Temperature
TH Threshold
THK Thick
TLP Toilet Partition
TLT Toilet
TOB Top of Beam
TOC Top of Concrete
TOF Top of Footing
TOP Top of Parapet
TOS Top of Slab
TOSTL Top of Steel
TRZ Poured Terrazzo
TT Treatment Table
TW Top of Wall
TYP Typical
UNO Unless Noted Otherwise
VAR Varies
VCT Vinyl Composition Tile
VERT Vertical
VEST Vestibule
VIF Verify In Field
VWC Vinyl Wall Covering
W/ With
W/O Without
W Width
W.P. Waterproof(ing)
WD Wood
WDM Wood Millwork
WF Wide Flange
WL Wind Load
WKC Walk Off Carpet
WKS Walk Off System
WNB Window Blinds
WP Work Point
WT Whirlpool Tub
WWF Welded Wire Fabric

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NO. LL-208
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

GENERAL MOUNTING HEIGHTS

Sheet No.
A0.02

Project Name
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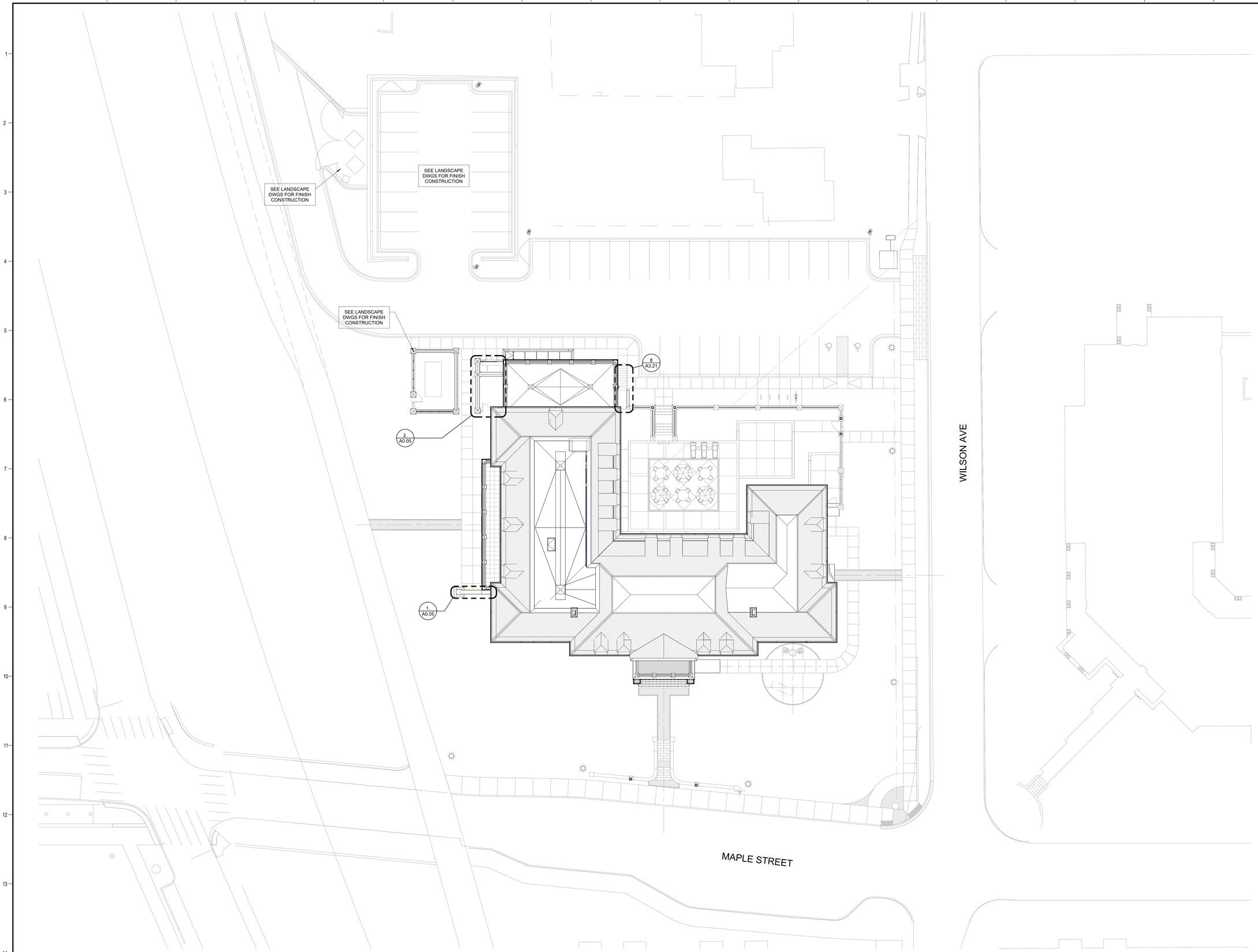

1 ARCHITECTURAL SITE PLAN
1/16" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

ARCHITECTURAL SITE PLAN

Sheet No.

A0.04

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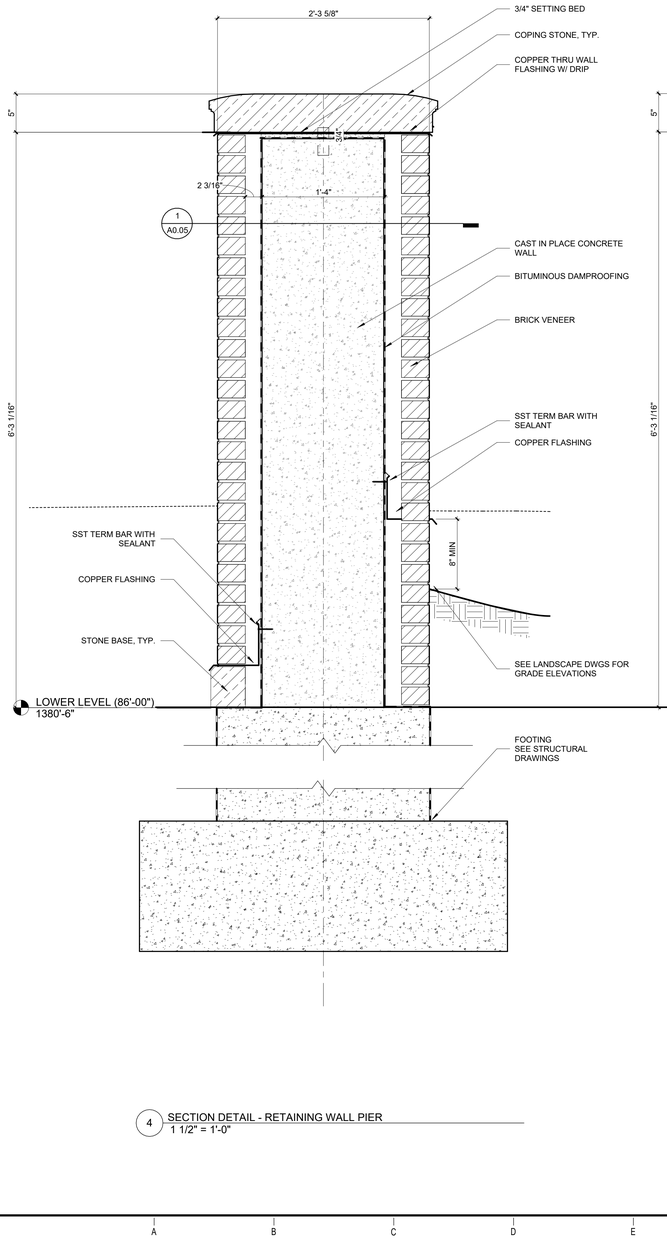
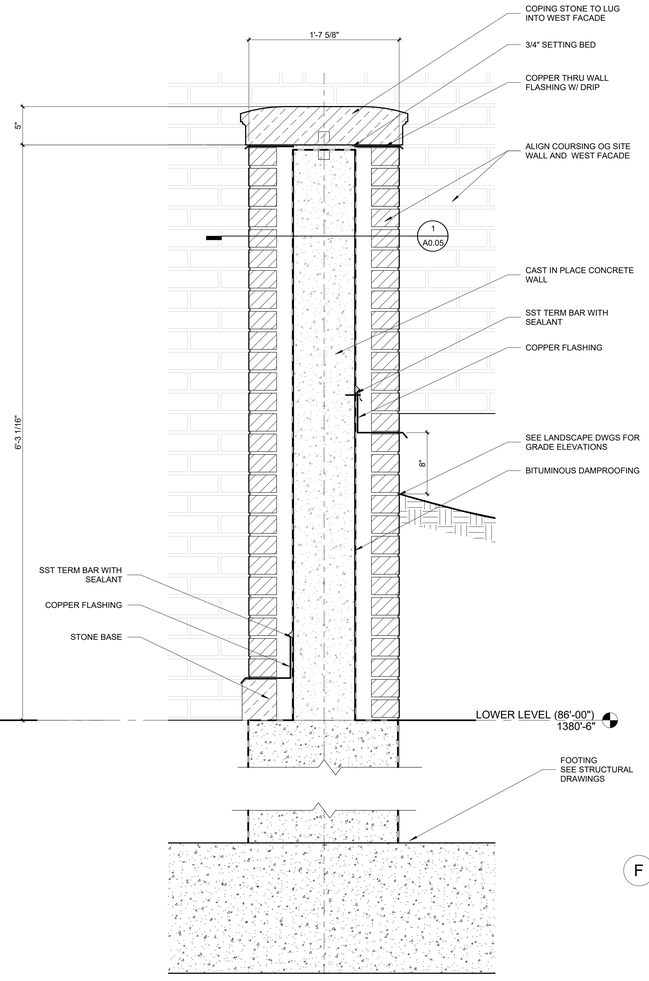
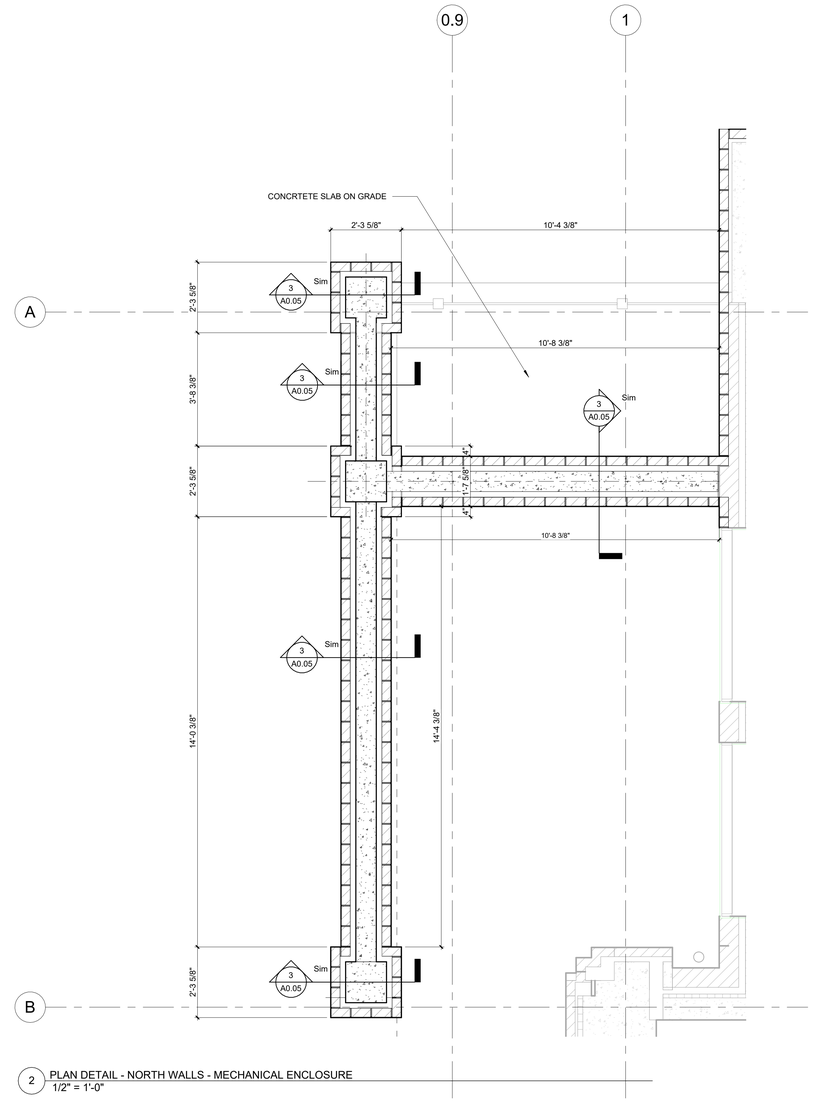


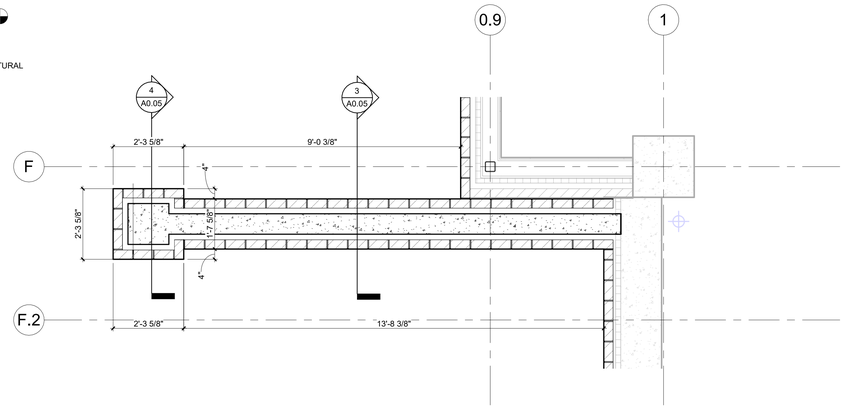
4 SECTION DETAIL - RETAINING WALL PIER
1 1/2" = 1'-0"



3 SECTION DETAIL - RETAINING WALL
1 1/2" = 1'-0"



2 PLAN DETAIL - NORTH WALLS - MECHANICAL ENCLOSURE
1/2" = 1'-0"



1 PLAN DETAIL - SOUTH RETAINING WALL
1/2" = 1'-0"

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STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

ARCHITECTURAL SITE WALL DETAILS

Sheet No.
A0.05

Project Name
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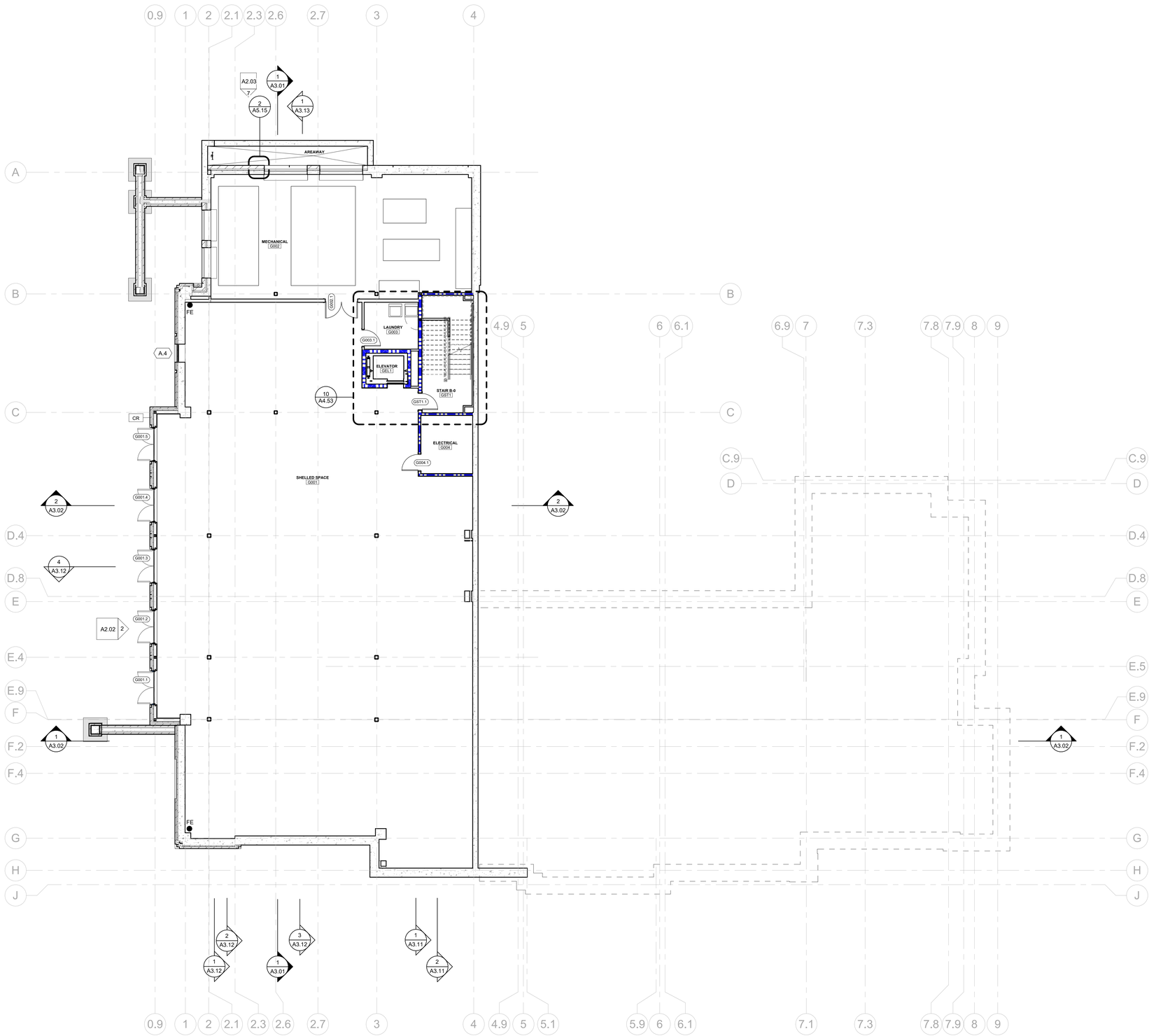

1 FLOOR PLAN - LOWER LEVEL
1/8" = 1'-0"

FLOOR PLAN LEGEND

- 0 — COLUMN GRID
- 1 / A101 SIM — DETAIL NUMBER / SHEET LOCATION
- 1 / A101 — VIEW NUMBER / SHEET LOCATION
- 1 / A101 SIM — SECTION NUMBER / SHEET LOCATION
- Level Name / Elevation — REFERENCE ELEVATION
- ROOM / 100 — ROOM NAME / ROOM NUMBER
- A100 / A1 — ELEVATION TAG
- 1A — PARTITION TYPE
- TA-1 — TOILET ACCESSORY TYPE
- 101 — DOOR NUMBER
- AL-XX — FRAME TYPE
- 1 — REVISION TAG
- FEC-1 — FIRE EXTINGUISHER CABINET - FULLY RECESSED
- FEC-2 — FIRE EXTINGUISHER CABINET - SEMI RECESSED
- FE — BRACKET MOUNTED FIRE EXTINGUISHER
- FE (CLASS K) — BRACKET MOUNTED CLASS K FIRE EXTINGUISHER
- B.B. — BULLETIN BOARD
- C.G. — CORNER GUARD
- BF — WATER BOTTLE FILLER
- KB — KNOX BOX
- MILLWORK
- NL — BUILT-IN BED DOES NOT HAVE LEDGE
- 1 HOUR WALL
- 2 HOUR WALL
- LOADBEARING WALL; REFER TO STRUCTURAL
- LOW HEIGHT PARTITION WALL
- FLOOR OUTLETS; LOCATE AS DIMENSIONED ON ARCHITECTURAL PLANS, REFER TO MEP FOR FURTHER INFORMATION

FLOOR PLAN GENERAL NOTES:

1. REFERENCE SHEET A6.01 FOR PARTITION TYPES.
2. ALL WALLS BETWEEN BEDROOMS AND ADJACENT ROOMS TO BE 30 MINUTE RATED. 1 HOUR WALLS TO BE PROVIDED.
3. ALL CORRIDOR WALLS TO BE 30 MINUTE RATED. 1 HOUR WALLS TO BE PROVIDED.
4. ALL WALLS BETWEEN BEDROOMS AND ADJACENT SPACES TO HAVE SOUND ATTENUATION INSULATION.
5. PROVIDE FIRE-RETARDANT WOOD BLOCKING, 16 GAUGE SHEET METAL STRAP, STEEL BACKING OR EQUIVALENT IN PARTITIONS TO SUPPORT WALL MOUNTED ITEMS AND EQUIPMENT. REQUIRED BUT NOT LIMITED TO THE FOLLOWING: CABINETS, HANDRAILS, GUARDRAILS, TOILET PARTITIONS AND ACCESSORIES AND WALL MOUNTED EQUIPMENT.
6. COORDINATE ALL DOOR ROUGH OPENINGS WITH SCHEDULED DOOR CASING PROFILE: PROVIDE 2" CLEAR BETWEEN CASING AND ADJACENT PERPENDICULAR WALL U.N.O.
7. COORDINATE DIMENSIONS WITH ALIGNMENTS ON FLOOR FINISH PLANS AND REFLECTED CEILING PLANS.
8. WALLS RECEIVING WALLCOVERING, WALL GRAPHICS, COLORED PAINT, OR SPECIALITY FINISH TO RECEIVE LEVEL 5 FINISH.

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

LOWER LEVEL FLOOR PLAN

Sheet No.

A1.00

Project Name
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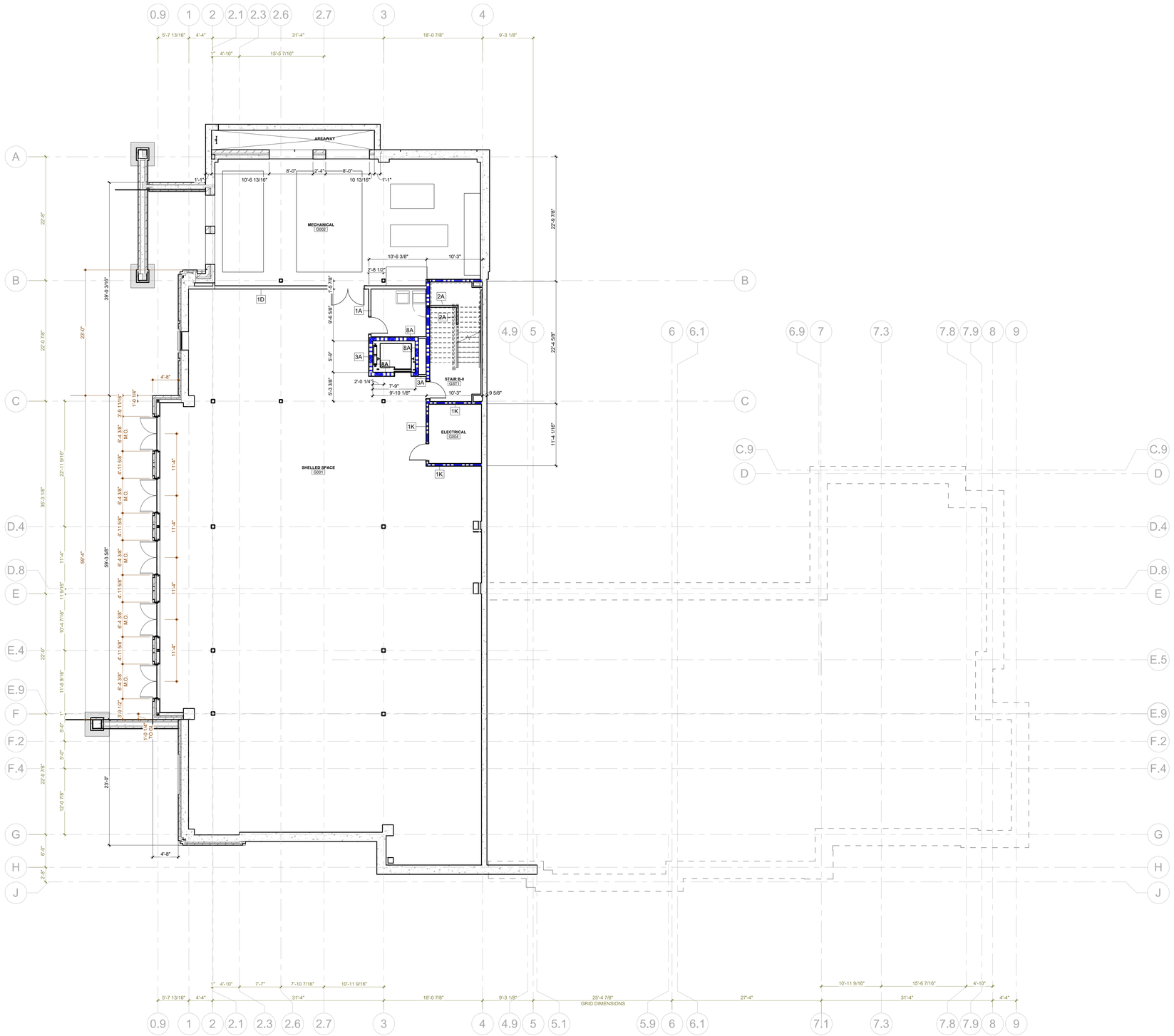

1 DIMENSION PLAN - LOWER LEVEL
1/8" = 1'-0"

DIMENSION PLAN LEGEND

- 0 — COLUMN GRID
- ROOM 100 — ROOM NAME / ROOM NUMBER
- 1A — PARTITION TYPE
- MILLWORK
- 1 HOUR WALL
- 2 HOUR WALL
- LOADBEARING WALL; REFER TO STRUCTURAL
- LOW HEIGHT PARTITION WALL
- FLOOR OUTLETS; LOCATE AS DIMENSIONED ON ARCHITECTURAL PLANS, REFER TO MEP FOR FURTHER INFORMATION

DIMENSION PLAN GENERAL NOTES:

NOTES:

1. **ALL DIMENSIONS ARE TO FACE OF STUDS, TYPICAL.**
2. WHERE DIMENSIONS ARE NOT TO FACE OF STUD, THE INTENDED OBJECT OR SURFACE IS REFERENCED IN THE DIMENSION STRING

8'-0" (M.O.) — REFERENCE OBJECT NOTATION
M.O. (OR) REFERENCE OBJECT NOTATION

COMMON REFERENCE OBJECT ABBREVIATIONS

B.O.	TO BOTTOM OF OBJECT
CL	CENTERLINE OF OBJECT
CLEAR	CLEAR BETWEEN FINISHES
MAX	MAXIMUM DISTANCE ALLOWED
MIN	MINIMUM DISTANCE ALLOWED
M.O.	MASONRY OPENING
T.O.	TO TOP OF OBJECT
TO CTR	TO THE CENTER OF THE OBJECT
TO GL	TO THE GRID LINE
TO BRK	TO THE FACE OF BRICK
TO FIN	TO THE FINISHED SURFACE
TYP.	TYPICAL FOR SIMILAR CONDITIONS

3. BRICK DIMENSIONS

8'-0" — REFERENCE TO BRICK DIMS

4. GRID LINE DIMENSIONS

8'-0" — REFERENCE TO GRID LINE DIMS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

LOWER LEVEL DIMENSION PLAN

Sheet No.

A1.00D

Project Name
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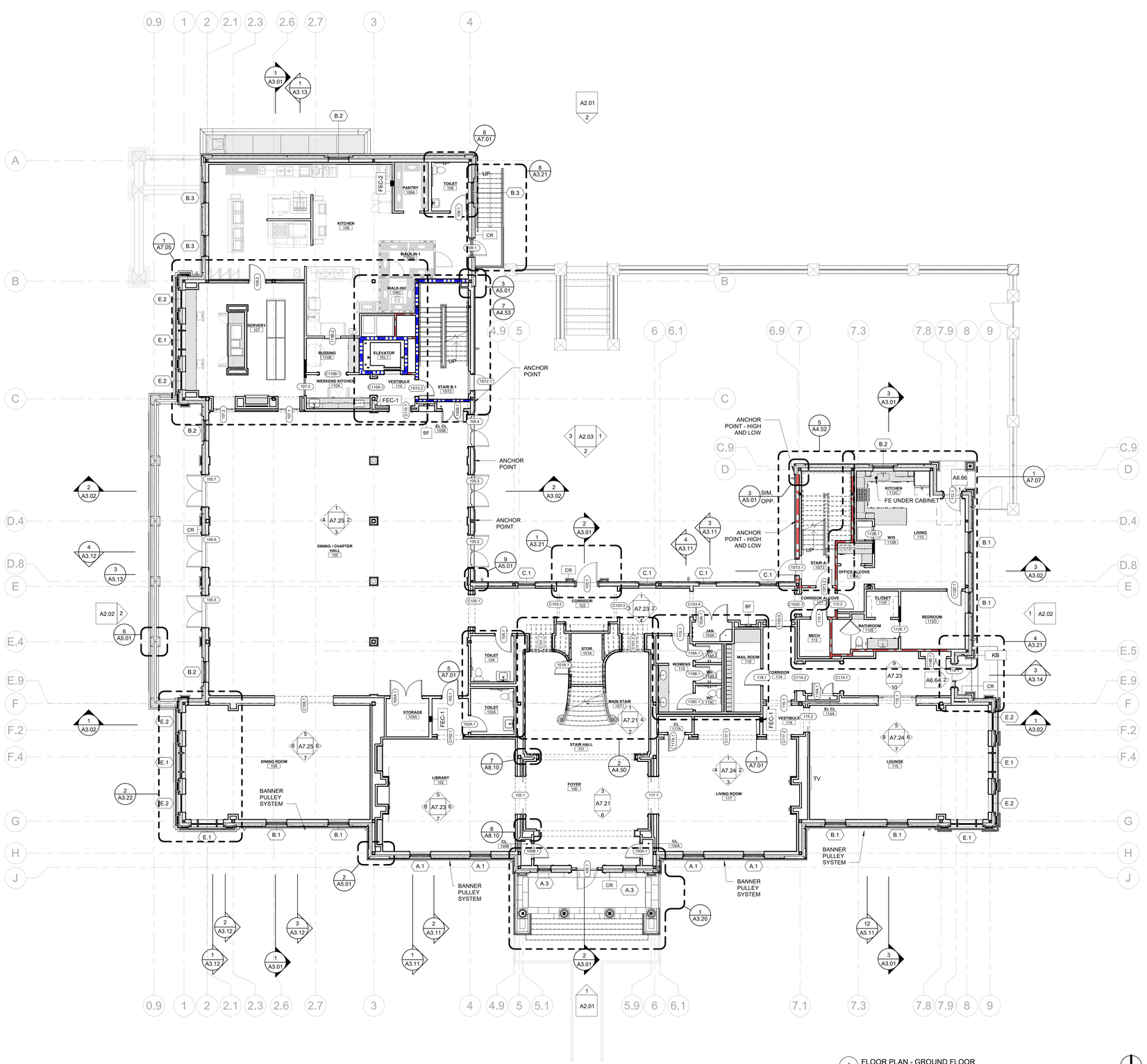

1 FLOOR PLAN - GROUND FLOOR
1/8" = 1'-0"

FLOOR PLAN LEGEND

- 0 — COLUMN GRID
- 1 / A101 (SIM) — DETAIL NUMBER / SHEET LOCATION
- 1 / A101 — VIEW NUMBER / SHEET LOCATION
- 1 / A101 (SIM) — SECTION NUMBER / SHEET LOCATION
- Level Name / Elevation — REFERENCE ELEVATION
- ROOM / 100 — ROOM NAME / ROOM NUMBER
- A100 / A1 — ELEVATION TAG
- 1A — PARTITION TYPE
- TA-1 — TOILET ACCESSORY TYPE
- 101 — DOOR NUMBER
- AL-XX — FRAME TYPE
- 1 — REVISION TAG
- FEC-1 — FIRE EXTINGUISHER CABINET - FULLY RECESSED
- FEC-2 — FIRE EXTINGUISHER CABINET - SEMI RECESSED
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- FE (CLASS K) — BRACKET MOUNTED CLASS K FIRE EXTINGUISHER
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- KB — KNOX BOX
- MILLWORK
- NL — BUILT-IN BED DOES NOT HAVE LEDGE
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- LOADBEARING WALL; REFER TO STRUCTURAL
- LOW HEIGHT PARTITION WALL
- FLOOR OUTLETS; LOCATE AS DIMENSIONED ON ARCHITECTURAL PLANS, REFER TO MEP FOR FURTHER INFORMATION

FLOOR PLAN GENERAL NOTES:

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
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Date
12.18.2025
Title

GROUND FLOOR PLAN
Sheet No.
A1.01

Project Name
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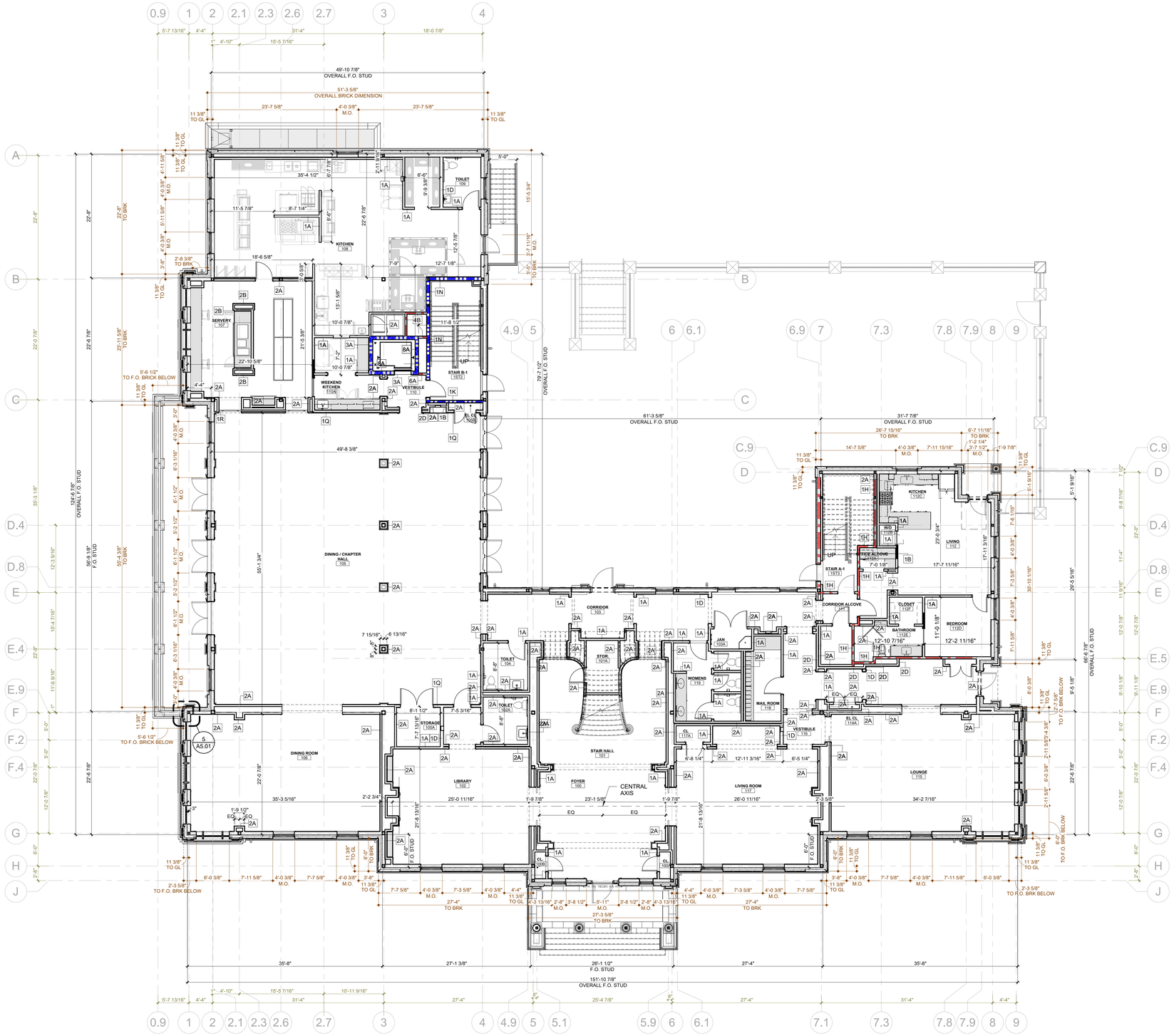

1 DIMENSION PLAN - GROUND FLOOR
1/8" = 1'-0"

DIMENSION PLAN LEGEND

- COLUMN GRID
- ROOM NAME / ROOM NUMBER
- PARTITION TYPE
- MILLWORK
- 1 HOUR WALL
- 2 HOUR WALL
- LOADBEARING WALL; REFER TO STRUCTURAL
- LOW HEIGHT PARTITION WALL
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CLEAR	CLEAR BETWEEN FINISHES
MAX	MAXIMUM DISTANCE ALLOWED
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TO GL	TO THE GRID LINE
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TO FIN	TO THE FINISHED SURFACE
TYP.	TYPICAL FOR SIMILAR CONDITIONS

3. BRICK DIMENSIONS
   8'-0" — REFERENCE TO BRICK DIMS
4. GRID LINE DIMENSIONS
   8'-0" — REFERENCE TO GRID LINE DIMS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

GROUND FLOOR DIMENSION PLAN

Sheet No.
A1.01D

Project Norm
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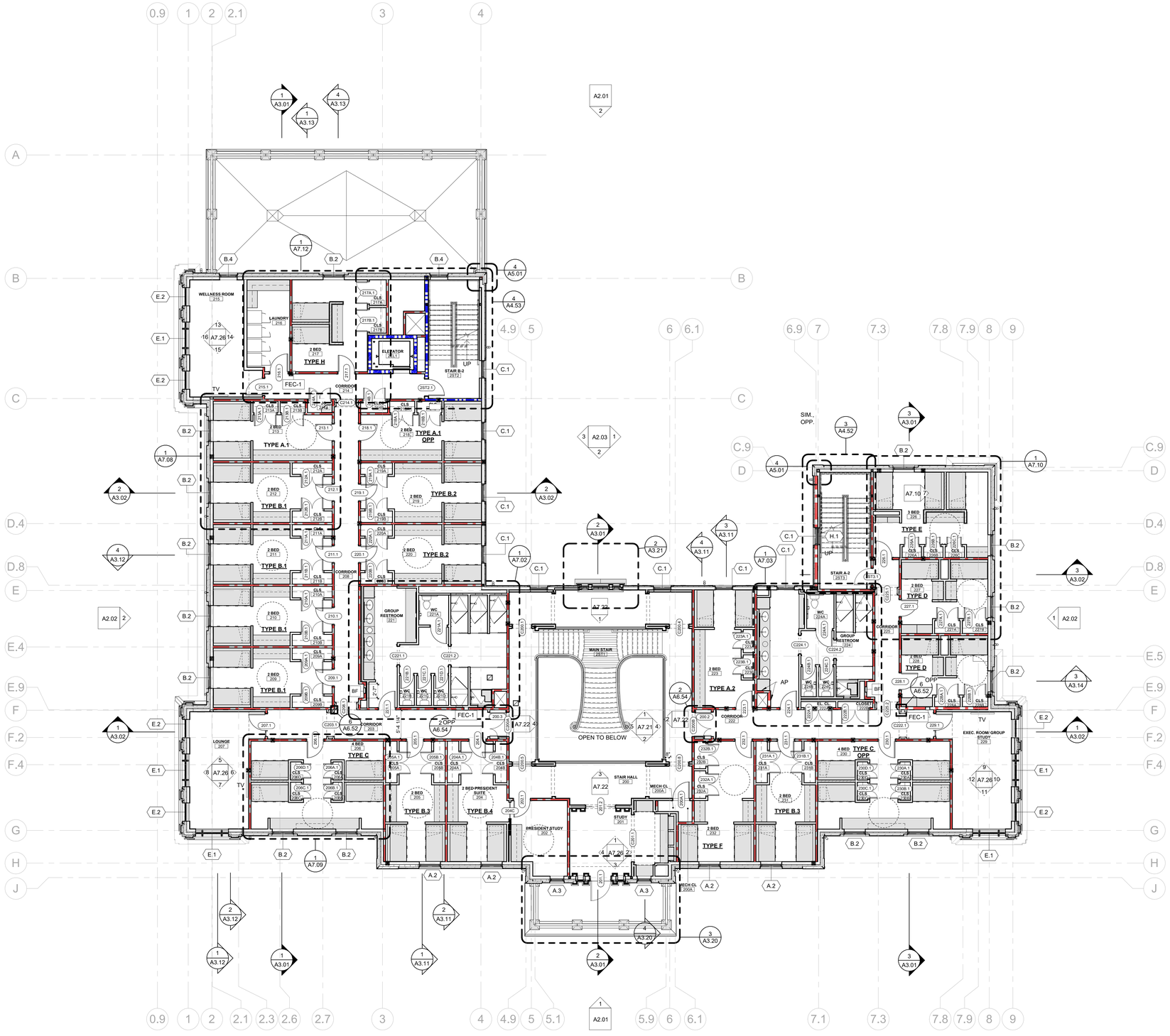

1 FLOOR PLAN - SECOND FLOOR
1/8" = 1'-0"

FLOOR PLAN LEGEND

- COLUMN GRID
- DETAIL NUMBER / SHEET LOCATION
- VIEW NUMBER / SHEET LOCATION
- SECTION NUMBER / SHEET LOCATION
- REFERENCE ELEVATION
- ROOM NAME / ROOM NUMBER
- ELEVATION TAG
- PARTITION TYPE
- TOILET ACCESSORY TYPE
- DOOR NUMBER
- FRAME TYPE
- REVISION TAG
- FEC-1: FIRE EXTINGUISHER CABINET - FULLY RECESSED
- FEC-2: FIRE EXTINGUISHER CABINET - SEMI RECESSED
- FE: BRACKET MOUNTED FIRE EXTINGUISHER
- FE (CLASS K): BRACKET MOUNTED CLASS K FIRE EXTINGUISHER
- B.B.: BULLETIN BOARD
- C.G.: CORNER GUARD
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FLOOR PLAN GENERAL NOTES:

1. REFERENCE SHEET A6.01 FOR PARTITION TYPES.
2. ALL WALLS BETWEEN BEDROOMS AND ADJACENT ROOMS TO BE 30 MINUTE RATED. 1 HOUR WALLS TO BE PROVIDED.
3. ALL CORRIDOR WALLS TO BE 30 MINUTE RATED. 1 HOUR WALLS TO BE PROVIDED.
4. ALL WALLS BETWEEN BEDROOMS AND ADJACENT SPACES TO HAVE SOUND ATTENUATION INSULATION.
5. PROVIDE FIRE-RETARDANT WOOD BLOCKING, 16 GAUGE SHEET METAL STRAP, STEEL BACKING OR EQUIVALENT IN PARTITIONS TO SUPPORT WALL MOUNTED ITEMS AND EQUIPMENT. REQUIRED BUT NOT LIMITED TO THE FOLLOWING: CABINETS, HANDRAILS, GUARDRAILS, TOILET PARTITIONS AND ACCESSORIES AND WALL MOUNTED EQUIPMENT.
6. COORDINATE ALL DOOR ROUGH OPENINGS WITH SCHEDULED DOOR CASING PROFILE. PROVIDE 2" CLEAR BETWEEN CASING AND ADJACENT PERPENDICULAR WALL U.N.O.
7. COORDINATE DIMENSIONS WITH ALIGNMENTS ON FLOOR FINISH PLANS AND REFLECTED CEILING PLANS.
8. WALLS RECEIVING WALLCOVERING, WALL GRAPHICS, COLORED PAINT, OR SPECIALITY FINISH TO RECEIVE LEVEL 5 FINISH.

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Job No. UAFAPH-21.01
Date 12.18.2025
Title

SECOND FLOOR PLAN
Sheet No.
A1.02

Project Name
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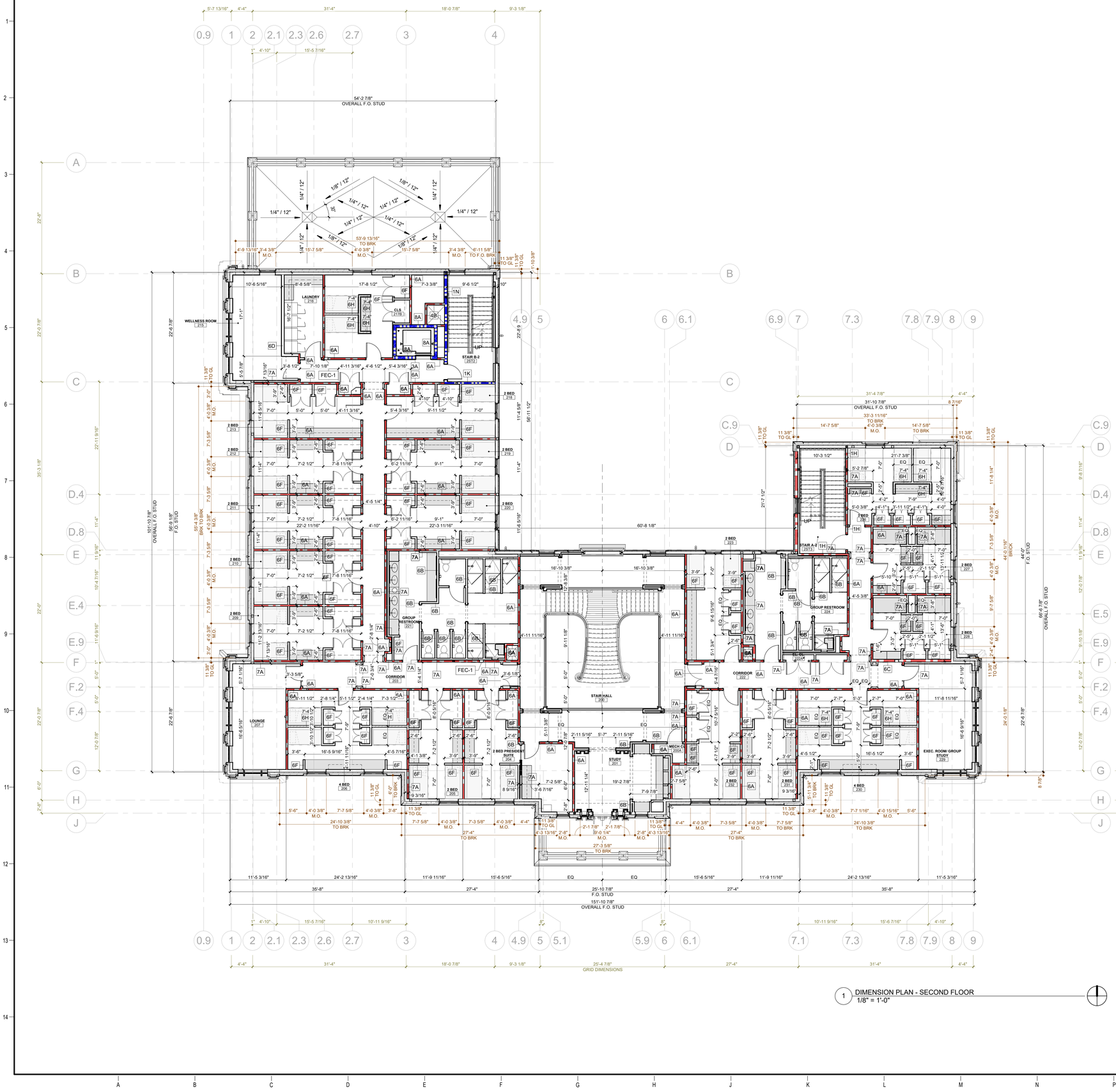

1 DIMENSION PLAN - SECOND FLOOR
1/8" = 1'-0"

DIMENSION PLAN LEGEND

- 0 — COLUMN GRID
- ROOM 100 — ROOM NAME / ROOM NUMBER
- 1A — PARTITION TYPE
- MILLWORK
- 1 HOUR WALL
- 2 HOUR WALL
- LOADBEARING WALL; REFER TO STRUCTURAL
- LOW HEIGHT PARTITION WALL
- FLOOR OUTLETS; LOCATE AS DIMENSIONED ON ARCHITECTURAL PLANS, REFER TO MEP FOR FURTHER INFORMATION

DIMENSION PLAN GENERAL NOTES:

NOTES:

1. **ALL DIMENSIONS ARE TO FACE OF STUDS, TYPICAL.**
2. WHERE DIMENSIONS ARE NOT TO FACE OF STUD, THE INTENDED OBJECT OR SURFACE IS REFERENCED IN THE DIMENSION STRING

8'-0" (M.O.) / M.O. — REFERENCE OBJECT NOTATION (OR) REFERENCE OBJECT NOTATION

COMMON REFERENCE OBJECT ABBREVIATIONS

B.O.	TO BOTTOM OF OBJECT
CL	CENTERLINE OF OBJECT
CLEAR	CLEAR BETWEEN FINISHES
MAX	MAXIMUM DISTANCE ALLOWED
MIN	MINIMUM DISTANCE ALLOWED
M.O.	MASONRY OPENING
T.O.	TO TOP OF OBJECT
TO CTR	TO THE CENTER OF THE OBJECT
TO GL	TO THE GRID LINE
TO BRK	TO THE FACE OF BRICK
TO FIN	TO THE FINISHED SURFACE
TYP.	TYPICAL FOR SIMILAR CONDITIONS

3. BRICK DIMENSIONS — 8'-0" — REFERENCE TO BRICK DIMS
4. GRID LINE DIMENSIONS — 8'-0" — REFERENCE TO GRID LINE DIMS

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Job No. UAFAPH-21.01
Date 12.18.2025
Title SECOND FLOOR DIMENSION PLAN
Sheet No. **A1.02D**

Project Name
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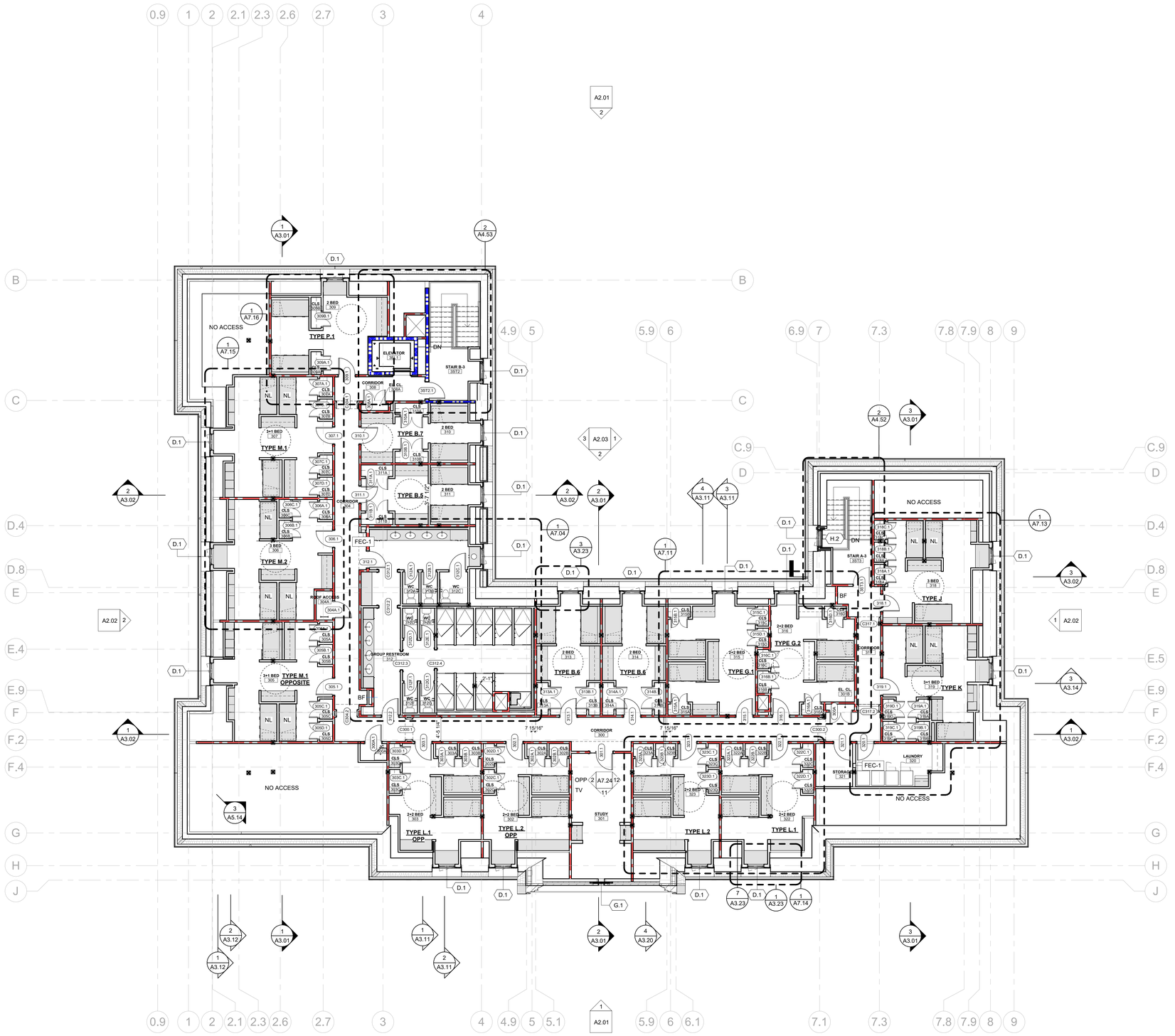

1 FLOOR PLAN - THIRD FLOOR
1/8" = 1'-0"

FLOOR PLAN LEGEND

- 0 — COLUMN GRID
- 1 / A101 SIM — DETAIL NUMBER / SHEET LOCATION
- 1 / A101 — VIEW NUMBER / SHEET LOCATION
- 1 / A101 SIM — SECTION NUMBER / SHEET LOCATION
- Level Name / Elevation — REFERENCE ELEVATION
- ROOM / 100 — ROOM NAME / ROOM NUMBER
- A100 / A1 — ELEVATION TAG
- 1A — PARTITION TYPE
- TA-1 — TOILET ACCESSORY TYPE
- 101 — DOOR NUMBER
- AL-XX — FRAME TYPE
- 1 — REVISION TAG
- FEC-1 — FIRE EXTINGUISHER CABINET - FULLY RECESSED
- FEC-2 — FIRE EXTINGUISHER CABINET - SEMI RECESSED
- FE — BRACKET MOUNTED FIRE EXTINGUISHER
- FE (CLASS K) — BRACKET MOUNTED CLASS K FIRE EXTINGUISHER
- B.B. — BULLETIN BOARD
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Job No.
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Date
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Title

THIRD FLOOR PLAN
Sheet No.
A1.03

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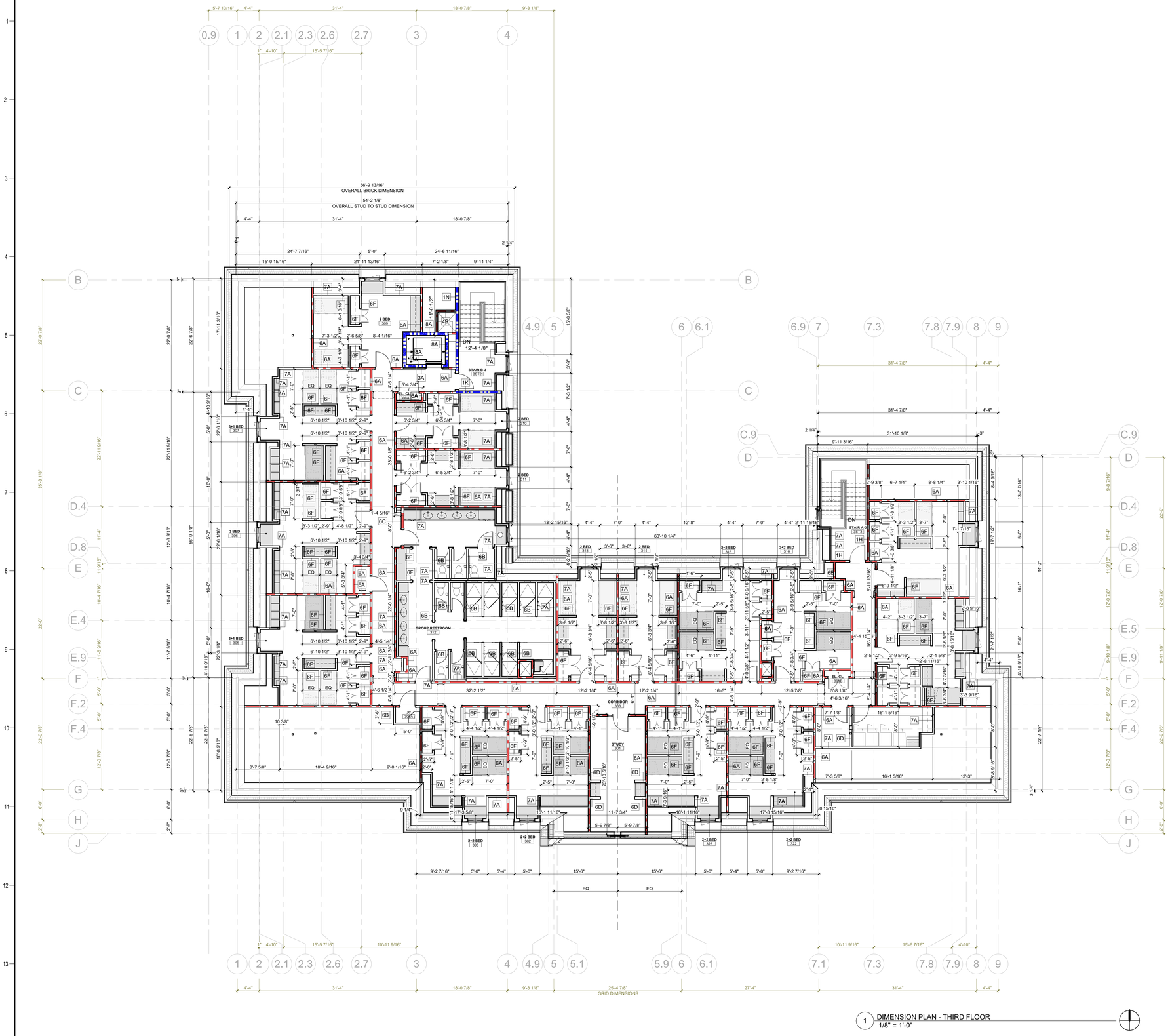

1 DIMENSION PLAN - THIRD FLOOR
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DIMENSION PLAN LEGEND

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No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

THIRD FLOOR DIMENSION PLAN

Sheet No.
A1.03D

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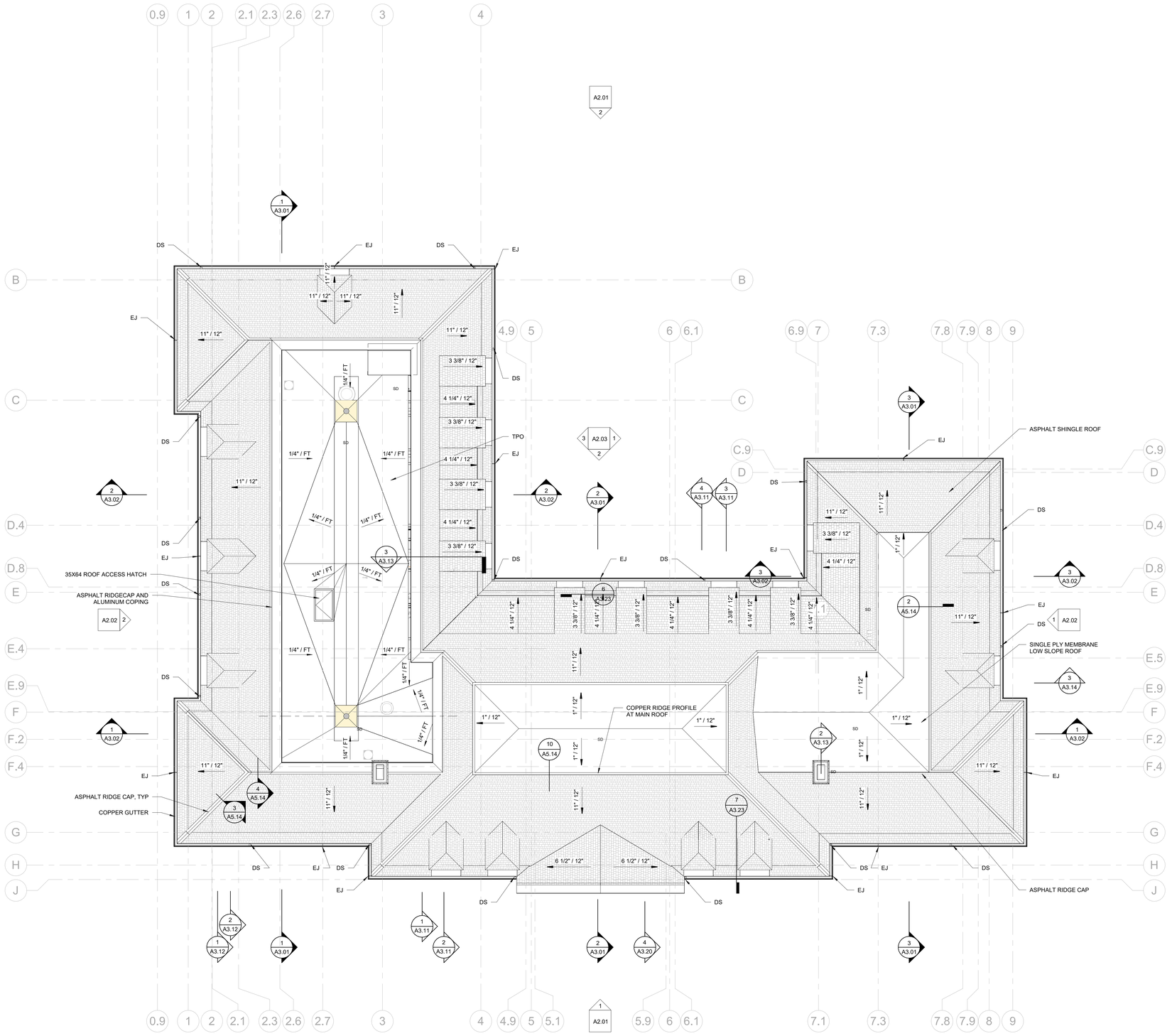

1 ROOF PLAN
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Job No. UAFAPH-21.01
Date 12.18.2025
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Sheet No. **A1.04**

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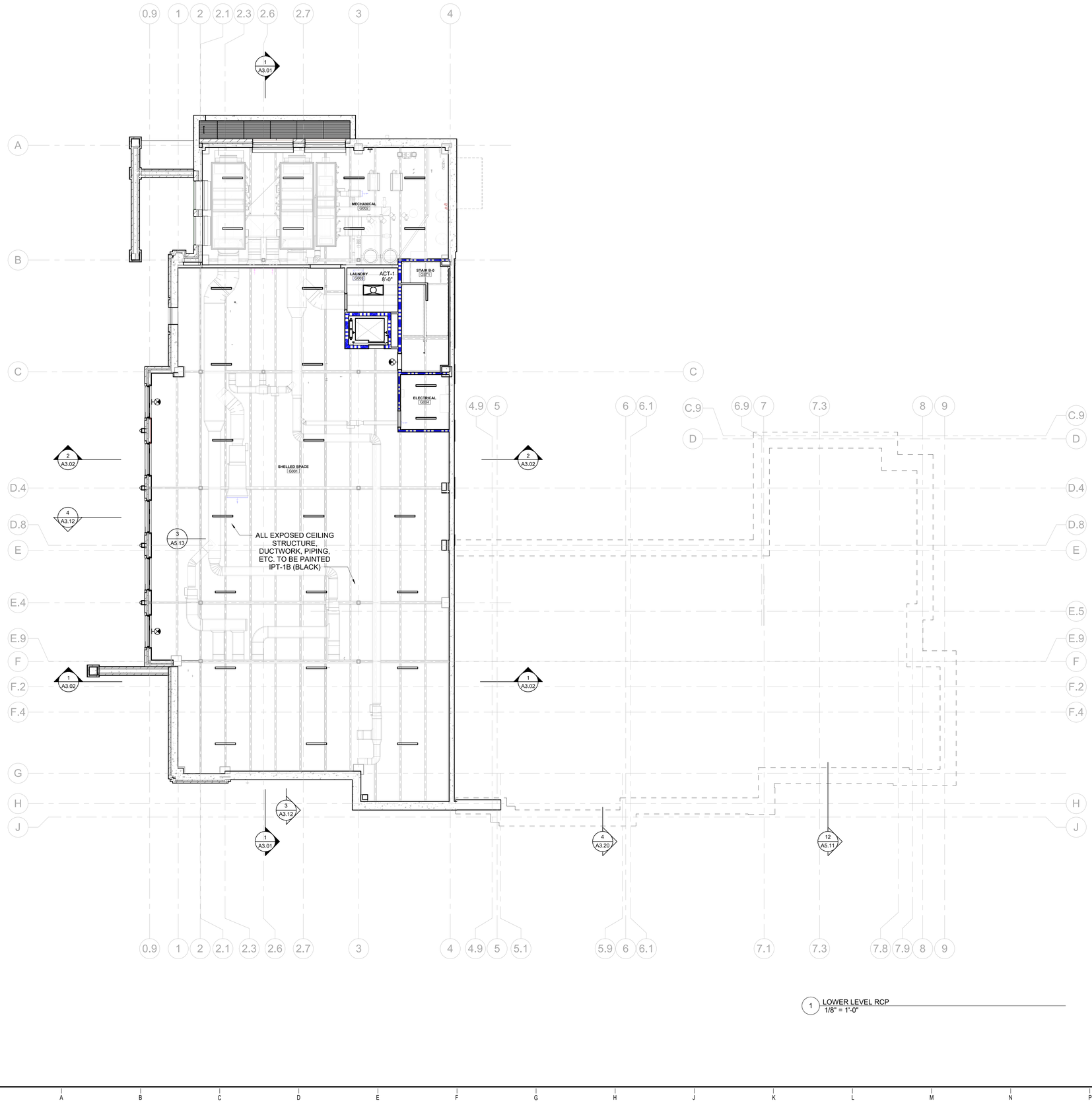

1 LOWER LEVEL RCP
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES:

2. TYPICAL CEILING FINISHES TO BE:
GWB CEILING - IPT-4
TRIM - IPT-4B

3. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS/LOCATION OF LIGHT FIXTURES. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.

4. ALL LIGHT FIXTURES TO BE CENTERED IN ROOM U.N.O.

5. ALL CEILING GRIDS TO BE CENTERED WITHIN ROOM U.N.O.

6. REFER TO MEP FOR ADDITIONAL SPRINKLER SYSTEM SCOPE IN RESIDENTIAL AND BACK OF HOUSE AREAS.

7. ALL CEILING MOUNTED LIGHTING, DEVICES, & FIXTURES (EX: EXIT SIGNS, SPRINKLERS, RECESSED LIGHTS) TO BE CENTERED WITHIN CEILING TILE AND/OR INSTALLED IN AN ORDERLY MANNER TO ALIGN WITH OTHER CEILING ELEMENTS U.N.O.

8. ALL SPRINKLER HEADS IN FIRST FLOOR FRONT OF HOUSE SPACES TO BE CONCEALED TYPE.

9. LIGHT FIXTURE TRIM COLOR IN CEILING FINISH AREA TO BE WHITE, U.N.O.

10. G.C. TO COORDINATE LIGHT FIXTURE DEPTH AND PLACEMENT WITH ALL OTHER ABOVE CEILING WORK PRIOR TO ORDERING OF LIGHT FIXTURES.

11. WHERE MECHANICAL UNITS LOCATED ABOVE, GWB CEILING TO BE INDEPENDENTLY FRAMED SUCH THAT CEILING CAN BE REMOVED WITHOUT DAMAGE TO SURROUNDING AREAS.

12. G.C. HAS SOLE RESPONSIBILITY TO COORDINATE MECHANICAL, ELECTRICAL, LIGHTING AND FIRE PROTECTION INSTALLATIONS. LIGHT FIXTURE PLACEMENT TAKES PRECEDENCE OVER OTHER TRADES. G.C. WILL ALSO BE REQUIRED TO COORDINATE THE WORK OF THE TENANT'S CONTRACTS FOR TELECOMMUNICATIONS, SECURITY AND AUDIO VISUAL WORK.

13. CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLE, CONDUIT, MECHANICAL EQUIPMENT OR OTHER CONSTRUCTION, ALL SUCH ELEMENTS ARE TO BE INDEPENDENTLY SUPPORTED FROM THE BASE BUILDING STRUCTURE.

14. G.C TO COORDINATE WITH ALL TRADES TO INSTALL CONDUITS, MECHANICAL, PLUMBING AND OTHER DEVICES AS CLOSE AS POSSIBLE TO EXISTING STRUCTURE AT ALL EXPOSED CEILING AREAS.

15. FOR CEILING PROFILE TYPE REFER TO INTERIOR ELEVATIONS FOR FURTHER INFORMATION

16. CEILINGS RECEIVING WALLCOVERING TO RECEIVE LEVEL 5 FINISH.

17. ALL ACCESS PANELS IN PUBLIC AREAS OR BEDROOM CORRIDORS TO BE AP1 MUD-IN TYPE.

REFLECTED CEILING PLAN LEGEND

- GYP. BOARD CEILING - NON RATED (GBD-1, GBD-2)
- GYP. BOARD CEILING - 1HR RATED (GBD-3) ONLY VISIBLE PORTIONS GBD-3 ARE SHOWN. RATED CEILING PLANE TO ENCAPSULATE THE ENTIRE ROOF/CEILING ASSEMBLY - REFER TO LIFE SAFETY PLAN AND BUILDING SECTIONS FOR EXTENTS
- 2X4 ACOUSTIC CEILING TILE, CLEANABLE (ACT-1)
- GYP. BD CEILING - ACCENT PAINT COLOR - VARIES
- PAINTED WOOD OR COMPOSITE - SEE DETAILS (WM-1)
- NO CEILING; OPEN TO STRUCTURE
- RECESSED DOWN LIGHT
- PENDANT MOUNTED LIGHT FIXTURE
- CHANDELIER
- LINEAR PENDANT LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- WALL-MOUNTED SCONCE OR SIM.
- WALL-MOUNTED EXTERIOR SCONCE
- CEILING TROFFER LIGHT FIXTURE
- UC — UNDERCABINET LIGHTING
- EXHAUST FAN; SEE MEP
- FAN COIL UNIT; SEE MEP
- SPRINKLER HEAD
- LINEAR BAR DIFFUSER W/ MUD-IN FRAME; SEE MEP
- AP1 — 12" X 12" ACCESS PANEL - MUD-IN TYPE
- AP2 — 12" X 12" ACCESS PANEL - STANDARD TYPE
- S — SPEAKER
- SD — SMOKE DETECTOR

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
LOWER LEVEL REFLECTED CEILING PLAN

Sheet No.
A1.10

Project Name
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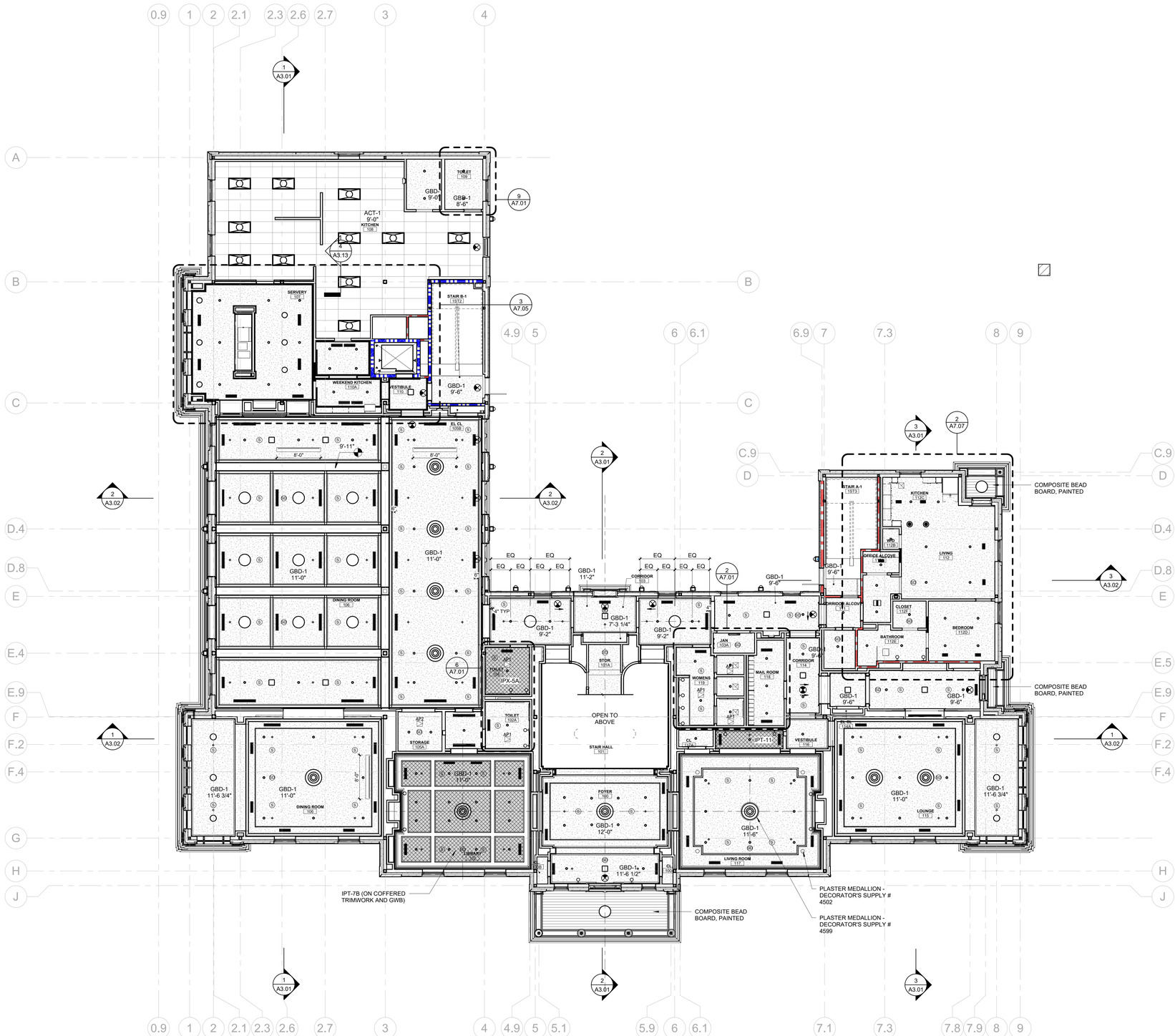

1 GROUND FLOOR RCP
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES:

2. TYPICAL CEILING FINISHES TO BE:
   GWB CEILING - IPT-4
   TRIM - IPT-4B

3. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONS/LOCATION OF LIGHT FIXTURES. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPES.

4. ALL LIGHT FIXTURES TO BE CENTERED IN ROOM U.N.O.

5. ALL CEILING GRIDS TO BE CENTERED WITHIN ROOM U.N.O.

6. REFER TO MEP FOR ADDITIONAL SPRINKLER SYSTEM SCOPE IN RESIDENTIAL AND BACK OF HOUSE AREAS.

7. ALL CEILING MOUNTED LIGHTING, DEVICES, & FIXTURES (EX: EXIT SIGNS, SPRINKLERS, RECESSED LIGHTS) TO BE CENTERED WITHIN CEILING TILE AND/OR INSTALLED IN AN ORDERLY MANNER TO ALIGN WITH OTHER CEILING ELEMENTS U.N.O.

8. ALL SPRINKLER HEADS IN FIRST FLOOR FRONT OF HOUSE SPACES TO BE CONCEALED TYPE.

9. LIGHT FIXTURE TRIM COLOR IN CEILING FINISH AREA TO BE WHITE, U.N.O.

10. G.C. TO COORDINATE LIGHT FIXTURE DEPTH AND PLACEMENT WITH ALL OTHER ABOVE CEILING WORK PRIOR TO ORDERING OF LIGHT FIXTURES.

11. WHERE MECHANICAL UNITS LOCATED ABOVE, GWB CEILING TO BE INDEPENDENTLY FRAMED SUCH THAT CEILING CAN BE REMOVED WITHOUT DAMAGE TO SURROUNDING AREAS.

12. G.C. HAS SOLE RESPONSIBILITY TO COORDINATE MECHANICAL, ELECTRICAL, LIGHTING AND FIRE PROTECTION INSTALLATIONS. LIGHT FIXTURE PLACEMENT TAKES PRECEDENCE OVER OTHER TRADES. G.C. WILL ALSO BE REQUIRED TO COORDINATE THE WORK OF THE TENANT'S CONTRACTS FOR TELECOMMUNICATIONS, SECURITY AND AUDIO VISUAL WORK.

13. CEILING SUPPORT SYSTEMS ARE NOT DESIGNED OR INTENDED TO SUPPORT THE WEIGHT OF ADDITIONAL EQUIPMENT, CABLE, CONDUIT, MECHANICAL EQUIPMENT OR OTHER CONSTRUCTION, ALL SUCH ELEMENTS ARE TO BE INDEPENDENTLY SUPPORTED FROM THE BASE BUILDING STRUCTURE.

14. G.C TO COORDINATE WITH ALL TRADES TO INSTALL CONDUITS, MECHANICAL, PLUMBING AND OTHER DEVICES AS CLOSE AS POSSIBLE TO EXISTING STRUCTURE AT ALL EXPOSED CEILING AREAS.

15. FOR CEILING PROFILE TYPE REFER TO INTERIOR ELEVATIONS FOR FURTHER INFORMATION

16. CEILINGS RECEIVING WALLCOVERING TO RECEIVE LEVEL 5 FINISH.

17. ALL ACCESS PANELS IN PUBLIC AREAS OR BEDROOM CORRIDORS TO BE AP1 MUD-IN TYPE.

REFLECTED CEILING PLAN LEGEND

- GYP. BOARD CEILING - NON RATED (GBD-1, GBD-2)
- GYP. BOARD CEILING - 1HR RATED (GBD-3) ONLY VISIBLE PORTIONS GBD-3 ARE SHOWN. RATED CEILING PLANE TO ENCAPSULATE THE ENTIRE ROOF/CEILING ASSEMBLY - REFER TO LIFE SAFETY PLAN AND BUILDING SECTIONS FOR EXTENTS
- 2X4 ACOUSTIC CEILING TILE, CLEANABLE (ACT-1)
- GYP. BD CEILING - ACCENT PAINT COLOR - VARIES
- PAINTED WOOD OR COMPOSITE - SEE DETAILS (WM-1)
- NO CEILING; OPEN TO STRUCTURE
- RECESSED DOWN LIGHT
- PENDANT MOUNTED LIGHT FIXTURE
- CHANDELIER
- LINEAR PENDANT LIGHT FIXTURE
- SURFACE MOUNTED LIGHT FIXTURE
- WALL-MOUNTED SCONCE OR SIM.
- WALL-MOUNTED EXTERIOR SCONCE
- CEILING TROFFER LIGHT FIXTURE
- UC — UNDERCABINET LIGHTING
- EXHAUST FAN; SEE MEP
- FAN COIL UNIT; SEE MEP
- SPRINKLER HEAD
- LINEAR BAR DIFFUSER W/ MUD-IN FRAME; SEE MEP
- AP1 — 12" X 12" ACCESS PANEL - MUD-IN TYPE
- AP2 — 12" X 12" ACCESS PANEL - STANDARD TYPE
- S — SPEAKER
- SD — SMOKE DETECTOR

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

GROUND FLOOR REFLECTED CEILING PLAN

Sheet No.

A1.11

Project Name
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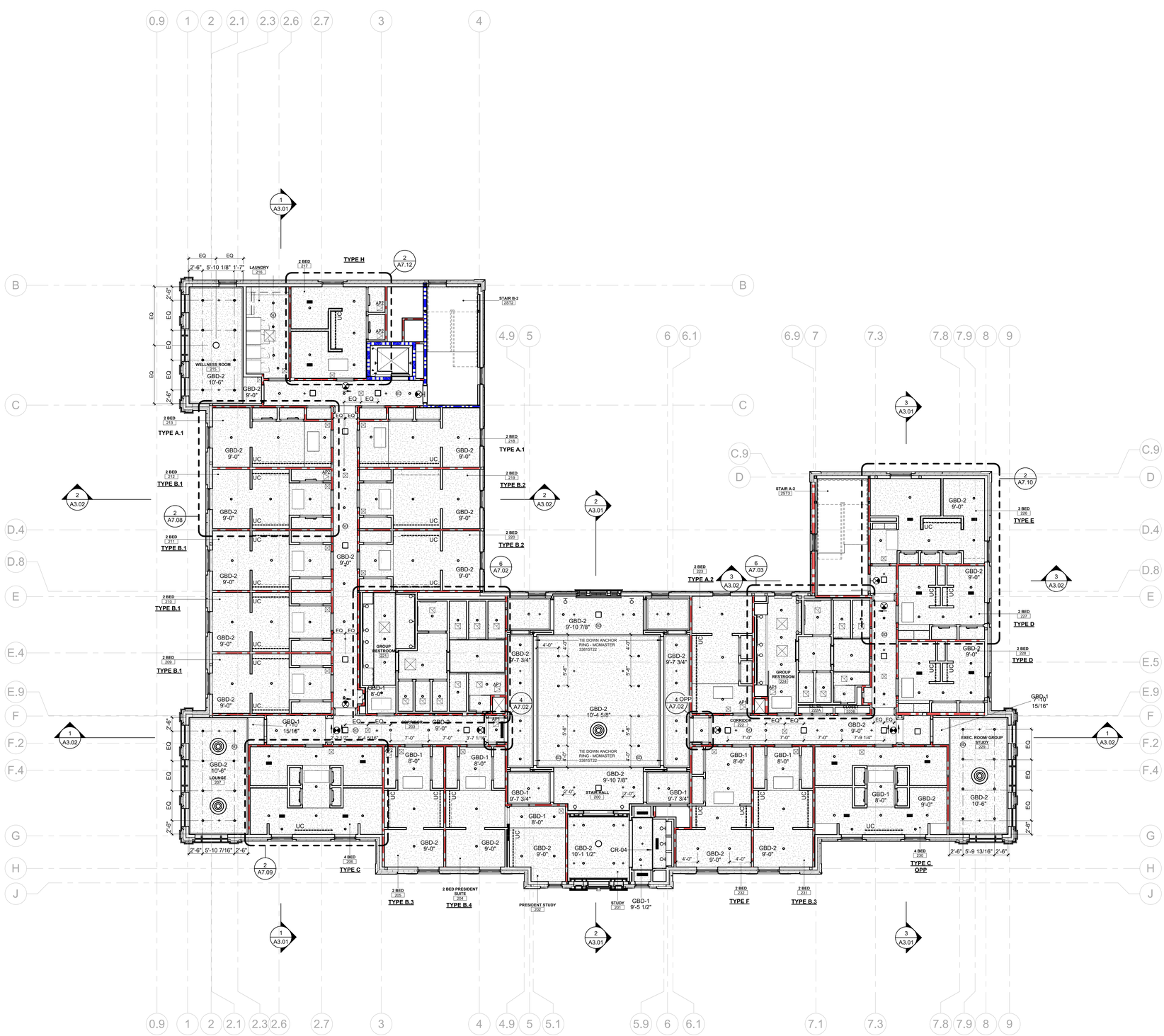

REFLECTED CEILING PLAN GENERAL NOTES:

2. TYPICAL CEILING FINISHES TO BE:
   GWB CEILING - IPT-4
   TRIM - IPT-4B

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
SECOND FLOOR REFLECTED CEILING PLAN

Sheet No.
A1.12

Project Name
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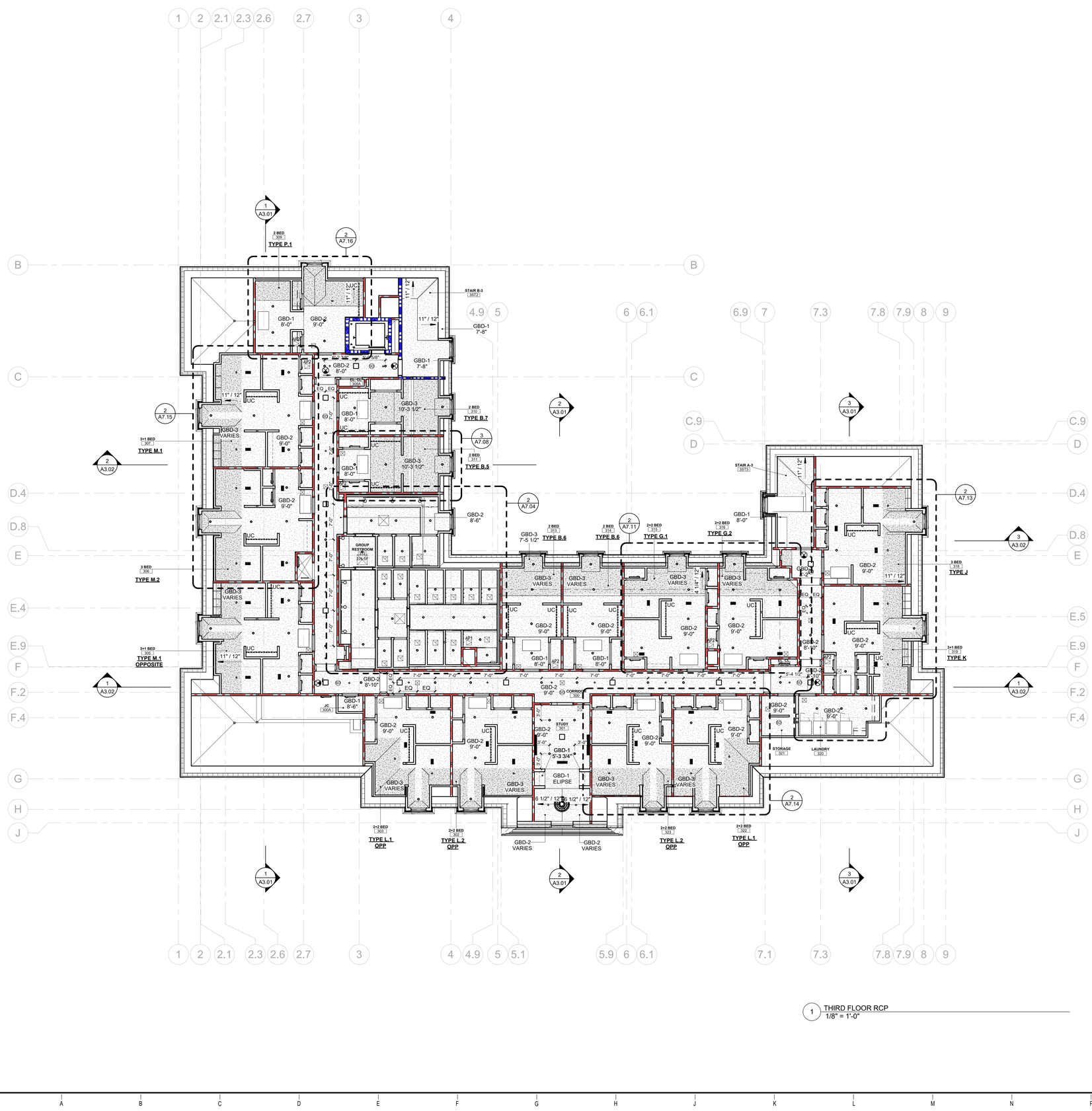

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#	DESCRIPTION

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- EXHAUST FAN; SEE MEP
- FAN COIL UNIT; SEE MEP
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- LINEAR BAR DIFFUSER W/ MUD-IN FRAME; SEE MEP
- AP1 — 12" X 12" ACCESS PANEL - MUD-IN TYPE
- AP2 — 12" X 12" ACCESS PANEL - STANDARD TYPE
- S — SPEAKER
- SD — SMOKE DETECTOR

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
THIRD FLOOR REFLECTED CEILING PLAN

Sheet No.
A1.13

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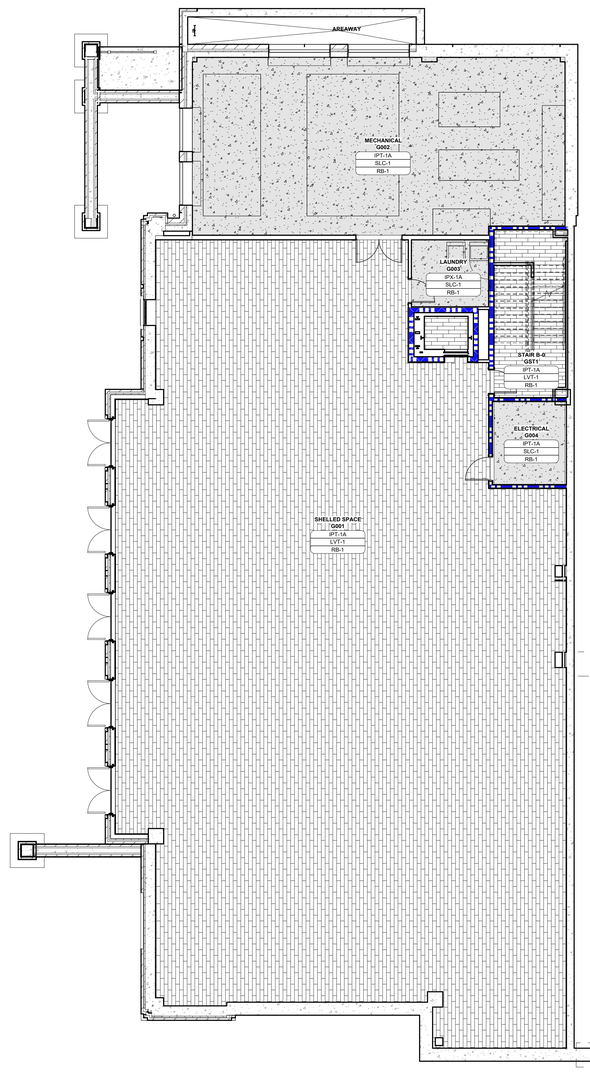

1 LOWER LEVEL FINISH PLAN
1/8" = 1'-0"

FINISH PLAN GENERAL NOTES:

1. TYPICAL FINISHES TO BE AS BELOW U.N.O.

GENERAL
WALLS - GWB, IPT-1A
CEILING - GWB, IPT-4
TRIM & DOORS - IPT-1B

KITCHEN, BUSSING, LAUNDRY (WET AREAS)
GWB WALLS - IPX-1A
GWB CEILINGS - IPX-4
TRIM & DOORS - IPX-1B

2ND & 3RD FLOOR RESTROOMS
GWB WALLS - IPX-14A
GWB CEILINGS - IPX-4
TRIM & DOORS - IPX-14B

BEDROOM ENTRY DOOR & DOOR TRIM (CORRIDOR SIDE ONLY)
IPT-8 AS NOTED ON PLANS

2A. REFERENCE FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.

2B. REFERENCE REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISH INFORMATION.

3. REFERENCE SHEET A8.12 FOR TRANSITION DETAILS.

4. PLANS IDENTIFY PREDOMINANT WALL FINISH ONLY. REFERENCE ELEVATION SHEETS FOR ADDITIONAL INFORMATION.

5. MISCELLANEOUS PAINTED ITEMS AND DEVICES NOT OTHERWISE INCLUDED ON THE DRAWINGS ARE TO BE PAINTED TO MATCH THE WALL SURFACE IN WHICH THEY OCCUR.

6. SEALANTS AND CAULKING ARE TO MATCH THE DOMINANT SURFACE IN WHICH THEY OCCUR. SAMPLE OF SEALANTS ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

7. WALLS AND CEILINGS RECEIVING WALLCOVERING TO RECEIVE LEVEL 5 FINISH.

8. PROVIDE BULLNOSE TILE, SIZE TO MATCH THICKNESS OF TILE, AT ALL LOCATIONS WHERE TILE MEETS FLOOR AND/OR OUTSIDE CORNERS, U.N.O.

9. TRANSITION OF DIFFERING MATERIALS BETWEEN ROOMS TO OCCUR AT THE CENTER OF THE DOOR U.O.N.

10. MILLWORK SHOWN FOR REFERENCE ONLY. ALL FLOOR FINISHES TO RUN UNDER MILLWORK.

11. AT LOCATIONS WITH SEALED CONCRETE, EXTEND ADJACENT FINISH UNDER DOOR TO FINISH FACE OF INSIDE PARTITION.

FINISH PLAN KEY NOTES:

#	DESCRIPTION

FLOOR FINISH PLAN LEGEND

XX-XX — INDICATES EXTENT OF ACCENT WALL FINISH

XX-XX / XX-XX — INDICATES WALL FINISH(ES)
XX-XX — INDICATES FLOOR FINISH(ES)
XX-XX / XX-XX — INDICATES BASE / CROWN / WALL TRIM FINISH(ES)
INDICATES BASE TYPE

ENGINEERED HARDWOOD FLOORING
5" PLANKS - PROVIDE SINGLE OR DOUBLE 5" BORDER PER PLAN (WD-1)

ENGINEERED HARDWOOD FLOORING
5" PLANK CHEVRON - PROVIDE DOUBLE 5" BORDER PER PLAN (WD-2)

ENGINEERED HARDWOOD FLOORING
5" PLANK 24" LONG HERRINGBONE - PROVIDE DOUBLE 5" BORDER PER PLAN (WD-3)

DECORATIVE STONE MOSAIC AND BORDER PATTERN (ST-1 & ST-2 - SEE ENLARGED DETAIL)

LVT (LVT-1)

FIELD TILE - SEE PLAN TAG FOR VARIATIONS

LVT WITH EPOXY ADHESIVE (LVT-1 (EA))

MOSAIC TILE - SEE PLAN TAG FOR VARIATIONS

EPOXY FLOORING (EPX-1)

SEALED CONCRETE (SLC-1)

RUBBER FLOORING (RF-1)

UNSEALED CONCRETE (C-1)

CG — FULL HEIGHT WOOD CORNER GUARD, PAINTED TO MATCH ADJACENT WALL FINISH; SIDE FLANGES TO BE 2" WIDE

FLOOR TRANSITION, SEE DETAILS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

LOWER LEVEL FINISH PLAN

Sheet No.

A1.60

Project Name
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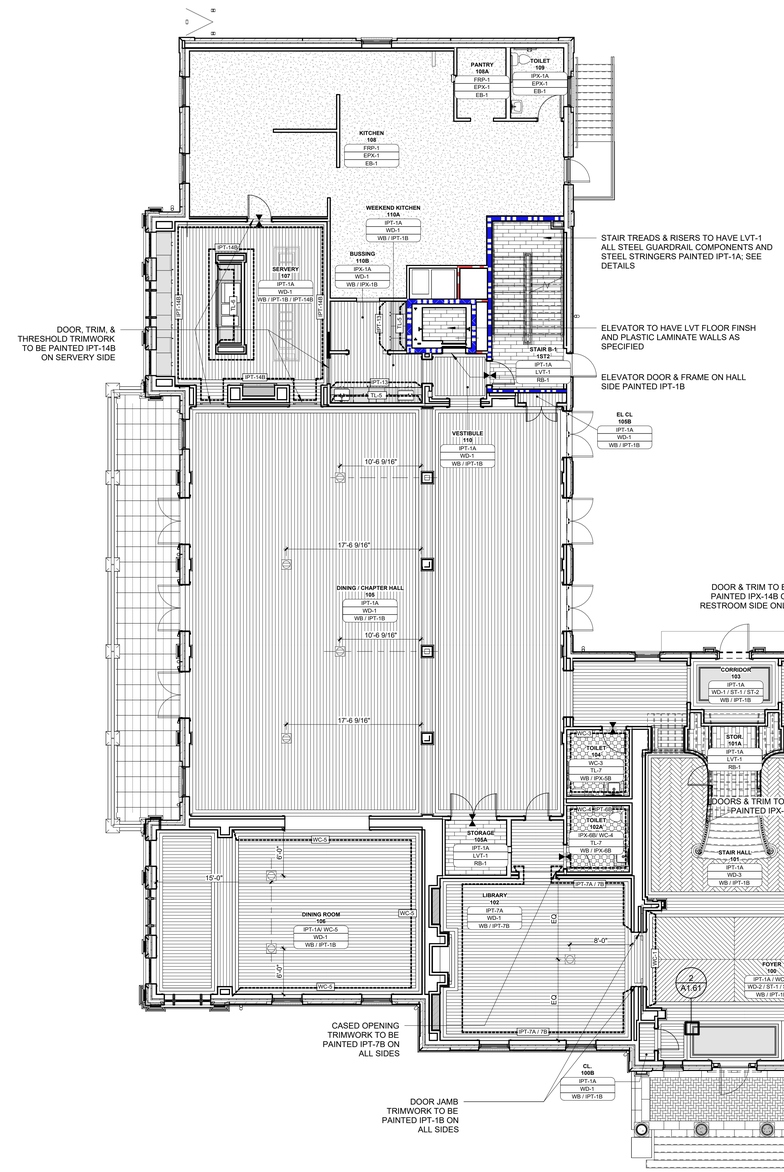
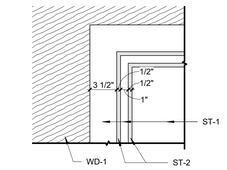


1 GROUND FLOOR FINISH PLAN
1/8" = 1'-0"



2 ST-1 / ST-2 PATTERN
1 1/2" = 1'-0"

FINISH PLAN GENERAL NOTES:

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CEILING - GWB, IPT-4
TRIM & DOORS - IPT-1B

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2B. REFERENCE REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISH INFORMATION.

3. REFERENCE SHEET A8.12 FOR TRANSITION DETAILS.

4. PLANS IDENTIFY PREDOMINANT WALL FINISH ONLY. REFERENCE ELEVATION SHEETS FOR ADDITIONAL INFORMATION.

5. MISCELLANEOUS PAINTED ITEMS AND DEVICES NOT OTHERWISE INCLUDED ON THE DRAWINGS ARE TO BE PAINTED TO MATCH THE WALL SURFACE IN WHICH THEY OCCUR.

6. SEALANTS AND CAULKING ARE TO MATCH THE DOMINANT SURFACE IN WHICH THEY OCCUR. SAMPLE OF SEALANTS ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

7. WALLS AND CEILINGS RECEIVING WALLCOVERING TO RECEIVE LEVEL 5 FINISH.

8. PROVIDE BULLNOSE TILE, SIZE TO MATCH THICKNESS OF TILE, AT ALL LOCATIONS WHERE TILE MEETS FLOOR AND/OR OUTSIDE CORNERS, U.N.O.

9. TRANSITION OF DIFFERING MATERIALS BETWEEN ROOMS TO OCCUR AT THE CENTER OF THE DOOR U.O.N.

10. MILLWORK SHOWN FOR REFERENCE ONLY. ALL FLOOR FINISHES TO RUN UNDER MILLWORK.

11. AT LOCATIONS WITH SEALED CONCRETE, EXTEND ADJACENT FINISH UNDER DOOR TO FINISH FACE OF INSIDE PARTITION.

FINISH PLAN KEY NOTES:

#	DESCRIPTION

FLOOR FINISH PLAN LEGEND

XX-XX — INDICATES EXTENT OF ACCENT WALL FINISH

XX-XX / XX-XX — INDICATES WALL FINISH(ES)
XX-XX — INDICATES FLOOR FINISH(ES)
XX-XX / XX-XX — INDICATES BASE / CROWN / WALL TRIM FINISH(ES)
INDICATES BASE TYPE

ENGINEERED HARDWOOD FLOORING
5" PLANKS - PROVIDE SINGLE OR DOUBLE 5" BORDER PER PLAN (WD-1)

ENGINEERED HARDWOOD FLOORING
5" PLANK CHEVRON - PROVIDE DOUBLE 5" BORDER PER PLAN (WD-2)

ENGINEERED HARDWOOD FLOORING
5" PLANK 24" LONG HERRINGBONE - PROVIDE DOUBLE 5" BORDER PER PLAN (WD-3)

DECORATIVE STONE MOSAIC AND BORDER PATTERN (ST-1 & ST-2 - SEE ENLARGED DETAIL)

LVT (LVT-1)

FIELD TILE - SEE PLAN TAG FOR VARIATIONS

LVT WITH EPOXY ADHESIVE (LVT-1 (EA))

MOSAIC TILE - SEE PLAN TAG FOR VARIATIONS

EPOXY FLOORING (EPX-1)

SEALED CONCRETE (SLC-1)

RUBBER FLOORING (RF-1)

UNSEALED CONCRETE (C-1)

CG — FULL HEIGHT WOOD CORNER GUARD, PAINTED TO MATCH ADJACENT WALL FINISH; SIDE FLANGES TO BE 2" WIDE

FLOOR TRANSITION, SEE DETAILS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title GROUND FLOOR FINISH PLAN
Sheet No. **A1.61**

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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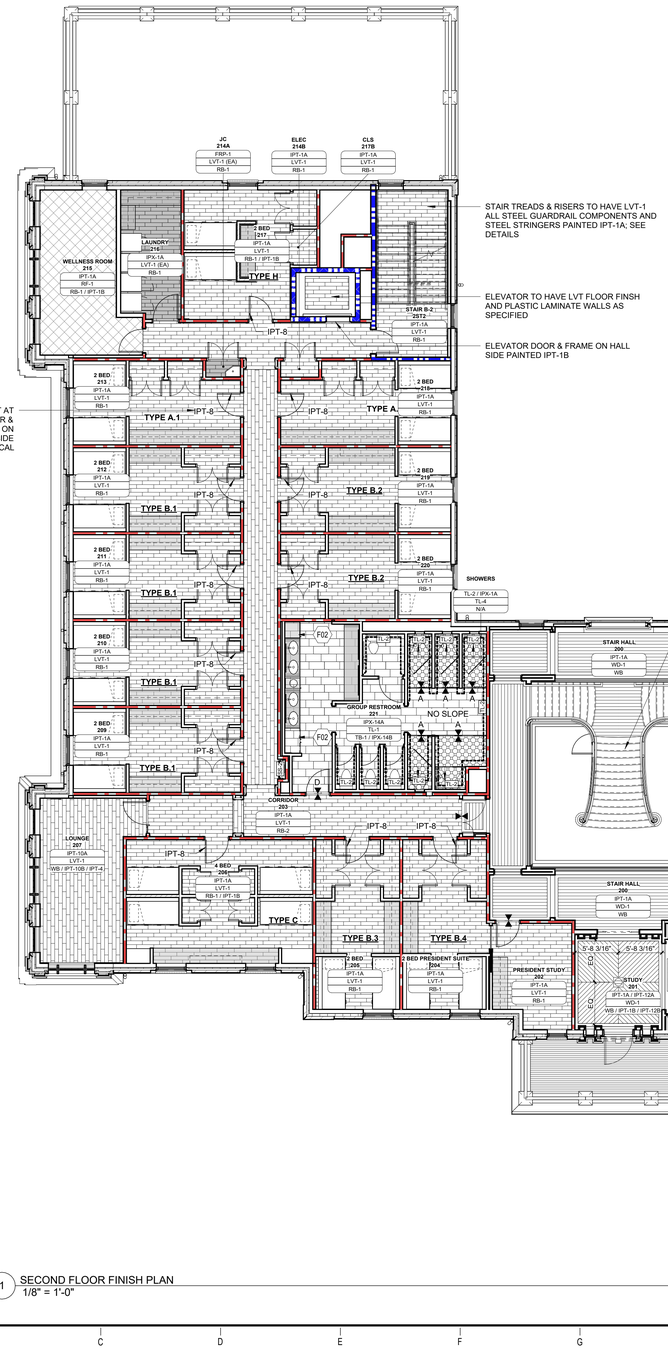
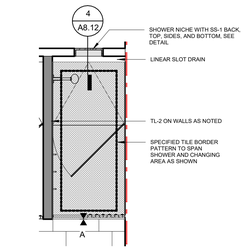


1 SECOND FLOOR FINISH PLAN
1/8" = 1'-0"



2 TYPICAL SHOWER FINISH PLAN
3/8" = 1'-0"

FINISH PLAN GENERAL NOTES:

1. TYPICAL FINISHES TO BE AS BELOW U.N.O.

GENERAL
WALLS - GWB, IPT-1A
CEILING - GWB, IPT-4
TRIM & DOORS - IPT-1B

KITCHEN, BUSSING, LAUNDRY (WET AREAS)
GWB WALLS - IPX-1A
GWB CEILINGS - IPX-4
TRIM & DOORS - IPX-1B

2ND & 3RD FLOOR RESTROOMS
GWB WALLS - IPX-14A
GWB CEILINGS - IPX-4
TRIM & DOORS - IPX-14B

BEDROOM ENTRY DOOR & DOOR TRIM (CORRIDOR SIDE ONLY)
IPT-8 AS NOTED ON PLANS

2A. REFERENCE FINISH SCHEDULE FOR ADDITIONAL FINISH INFORMATION.

2B. REFERENCE REFLECTED CEILING PLAN FOR ADDITIONAL CEILING FINISH INFORMATION.

3. REFERENCE SHEET A8.12 FOR TRANSITION DETAILS.

4. PLANS IDENTIFY PREDOMINANT WALL FINISH ONLY. REFERENCE ELEVATION SHEETS FOR ADDITIONAL INFORMATION.

5. MISCELLANEOUS PAINTED ITEMS AND DEVICES NOT OTHERWISE INCLUDED ON THE DRAWINGS ARE TO BE PAINTED TO MATCH THE WALL SURFACE IN WHICH THEY OCCUR.

6. SEALANTS AND CAULKING ARE TO MATCH THE DOMINANT SURFACE IN WHICH THEY OCCUR. SAMPLE OF SEALANTS ARE TO BE SUBMITTED TO ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

7. WALLS AND CEILINGS RECEIVING WALLCOVERING TO RECEIVE LEVEL 5 FINISH.

8. PROVIDE BULLNOSE TILE, SIZE TO MATCH THICKNESS OF TILE, AT ALL LOCATIONS WHERE TILE MEETS FLOOR AND/OR OUTSIDE CORNERS, U.N.O.

9. TRANSITION OF DIFFERING MATERIALS BETWEEN ROOMS TO OCCUR AT THE CENTER OF THE DOOR U.O.N.

10. MILLWORK SHOWN FOR REFERENCE ONLY. ALL FLOOR FINISHES TO RUN UNDER MILLWORK.

11. AT LOCATIONS WITH SEALED CONCRETE, EXTEND ADJACENT FINISH UNDER DOOR TO FINISH FACE OF INSIDE PARTITION.

FINISH PLAN KEY NOTES:

#	DESCRIPTION
F02	CONTINUE TILE FLOORING UNDER SHOWER CADDY MILLWORK IN RESTROOMS; TYPICAL; SEE DETAIL

FLOOR FINISH PLAN LEGEND

INDICATES WALL FINISH(ES)
XX-XX
INDICATES EXTENT OF ACCENT WALL FINISH
XX-XX / XX-XX
XX-XX
XX-XX / XX-XX
INDICATES FLOOR FINISH(ES)
INDICATES BASE / CROWN / WALL TRIM FINISH(ES)
INDICATES BASE TYPE

ENGINEERED HARDWOOD FLOORING
5" PLANKS - PROVIDE SINGLE OR DOUBLE 5" BORDER PER PLAN (WD-1)

ENGINEERED HARDWOOD FLOORING
5" PLANK CHEVRON - PROVIDE DOUBLE 5" BORDER PER PLAN (WD-2)

ENGINEERED HARDWOOD FLOORING
5" PLANK 24" LONG HERRINGBONE - PROVIDE DOUBLE 5" BORDER PER PLAN (WD-3)

DECORATIVE STONE MOSAIC AND BORDER PATTERN (ST-1 & ST-2 - SEE ENLARGED DETAIL)

LVT (LVT-1)

FIELD TILE - SEE PLAN TAG FOR VARIATIONS

LVT WITH EPOXY ADHESIVE (LVT-1 (EA))

MOSAIC TILE - SEE PLAN TAG FOR VARIATIONS

EPOXY FLOORING (EPX-1)

SEALED CONCRETE (SLC-1)

RUBBER FLOORING (RF-1)

UNSEALED CONCRETE (C-1)

CG FULL HEIGHT WOOD CORNER GUARD, PAINTED TO MATCH ADJACENT WALL FINISH; SIDE FLANGES TO BE 2" WIDE

FLOOR TRANSITION, SEE DETAILS

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No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

SECOND FLOOR FINISH PLAN

Sheet No.
A1.62

Project Name
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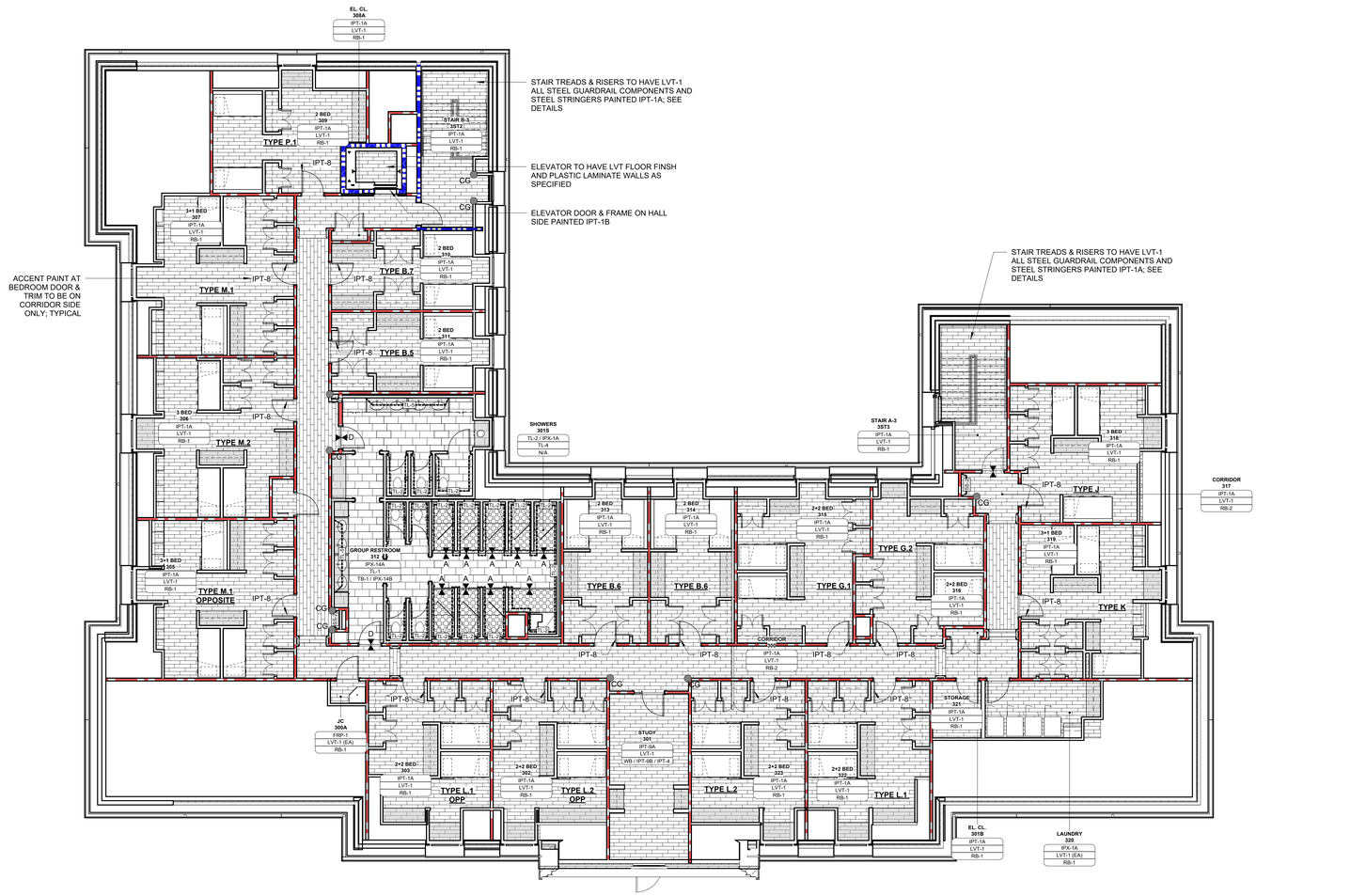

1 THIRD FLOOR FINISH PLAN
1/8" = 1'-0"

FINISH PLAN GENERAL NOTES:

1. TYPICAL FINISHES TO BE AS BELOW U.N.O.

GENERAL
WALLS - GWB, IPT-1A
CEILING - GWB, IPT-4
TRIM & DOORS - IPT-1B

KITCHEN, BUSSING, LAUNDRY (WET AREAS)
GWB WALLS - IPX-1A
GWB CEILINGS - IPX-4
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2ND & 3RD FLOOR RESTROOMS
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EPOXY FLOORING (EPX-1)

SEALED CONCRETE (SLC-1)

RUBBER FLOORING (RF-1)

UNSEALED CONCRETE (C-1)

CG — FULL HEIGHT WOOD CORNER GUARD, PAINTED TO MATCH ADJACENT WALL FINISH; SIDE FLANGES TO BE 2" WIDE

FLOOR TRANSITION, SEE DETAILS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

THIRD FLOOR FINISH PLAN

Sheet No.

A1.63

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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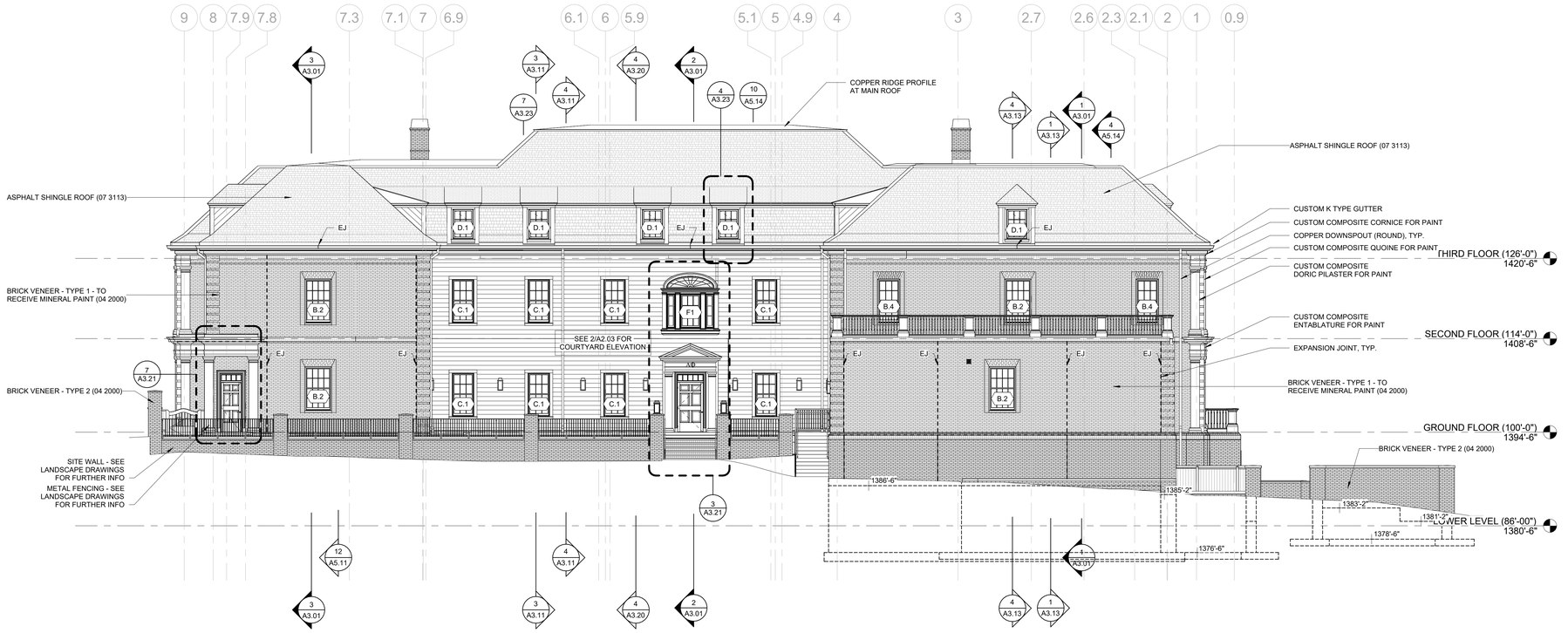
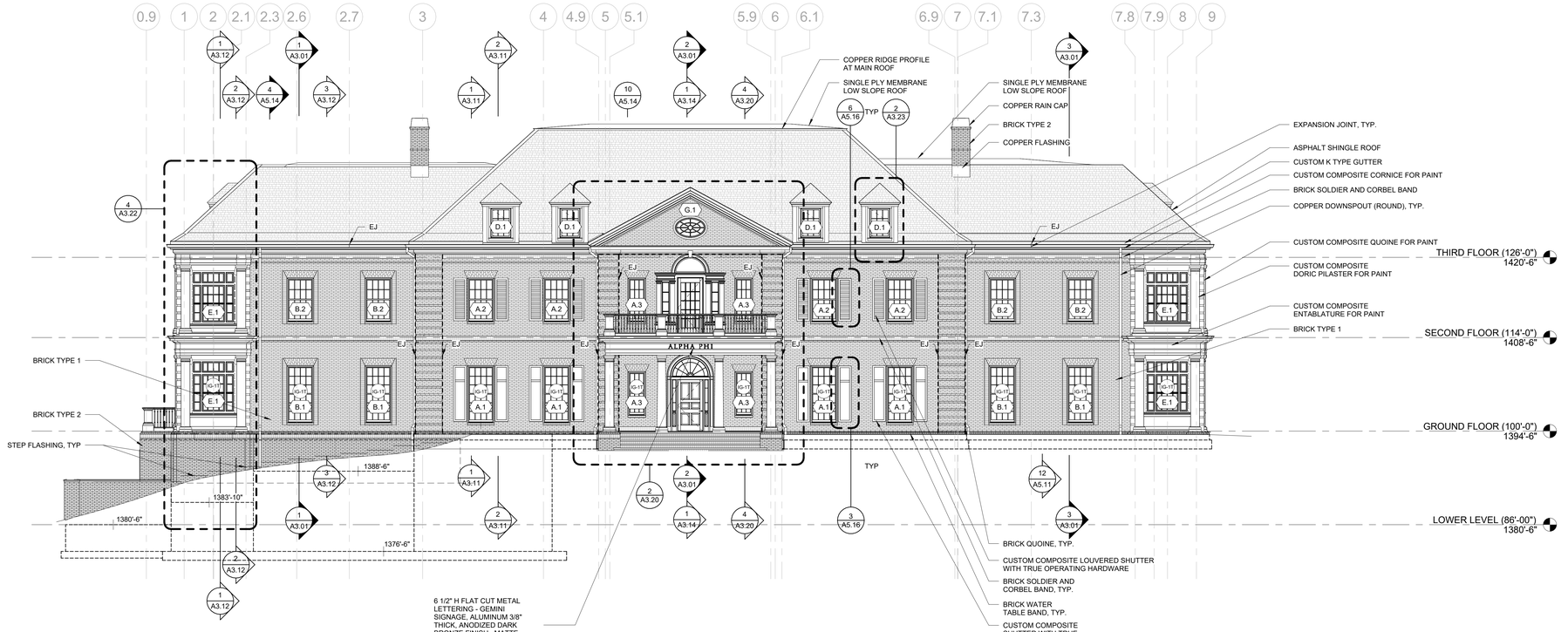
GENERAL NOTES:
1. ALL BRICK MASONRY EXPANSION JOINTS ARE 1/2" WIDE UNO.



2 NORTH ELEVATION
1/8" = 1'-0"



1 SOUTH ELEVATION
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

EXTERIOR ELEVATIONS
Sheet No.
A2.01

Project Name
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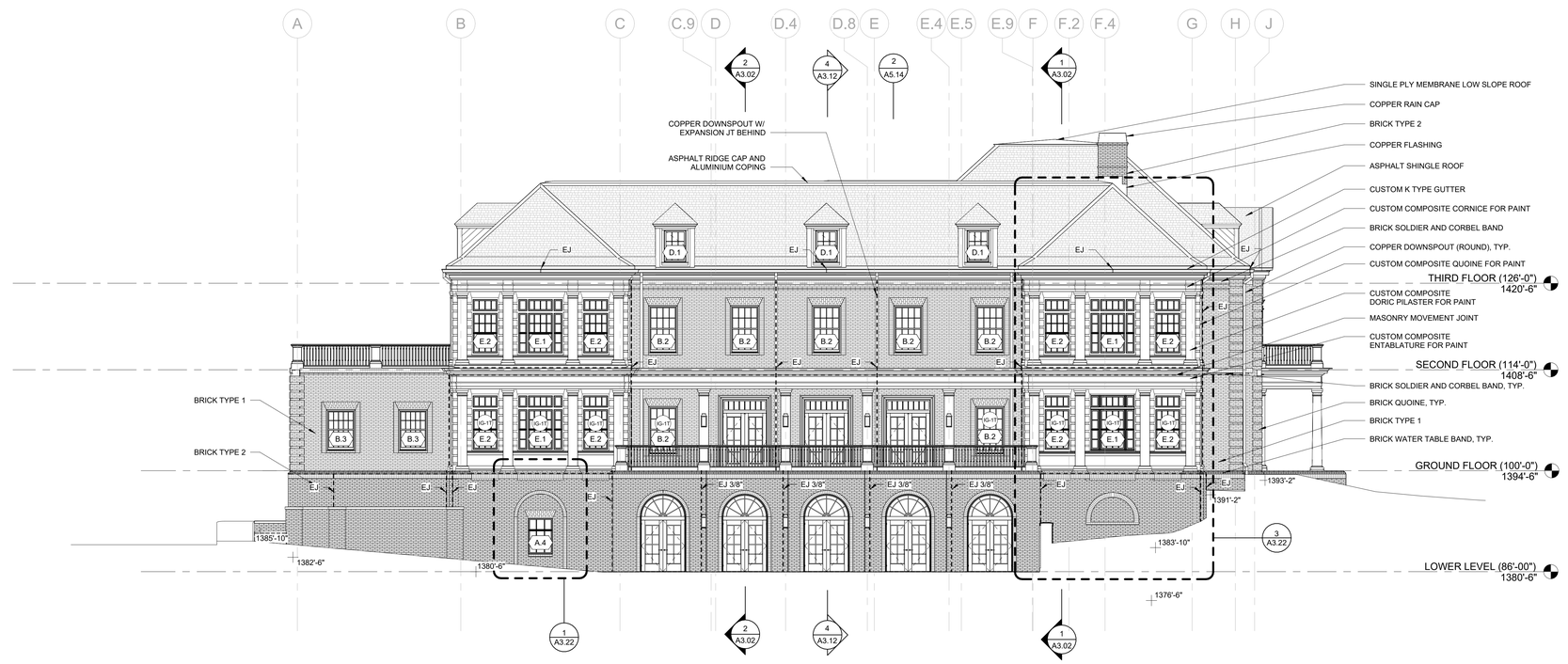
GENERAL NOTES:
1. ALL BRICK MASONRY EXPANSION JOINTS ARE 1/2" WIDE UNO.



2 WEST ELEVATION
1/8" = 1'-0"



1 EAST ELEVATION
1/8" = 1'-0"

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STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

EXTERIOR ELEVATIONS
Sheet No.
A2.02

Project Name
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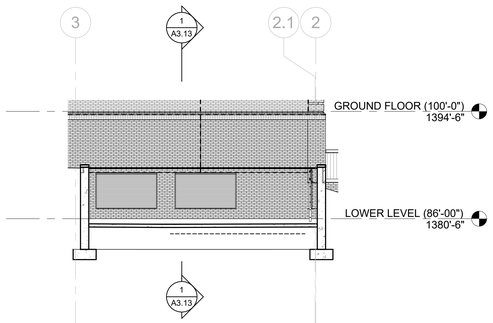
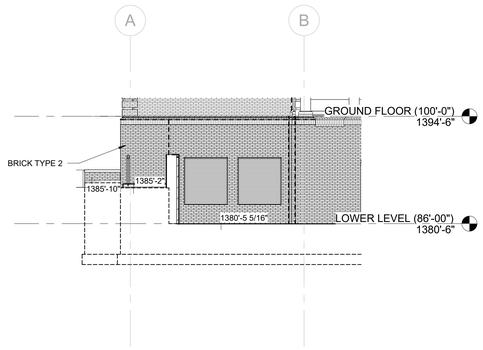
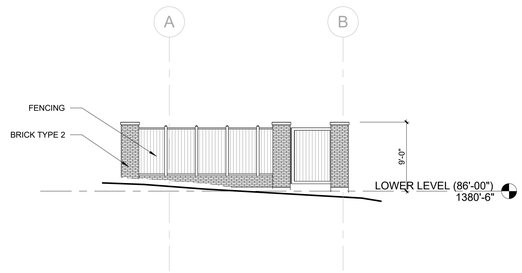
GENERAL NOTES:
1. ALL BRICK MASONRY EXPANSION JOINTS ARE 1/2" WIDE UNO.



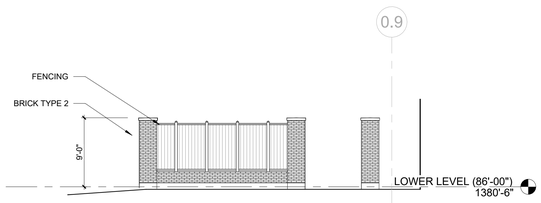
7 Elevation 9 - a
1/8" = 1'-0"



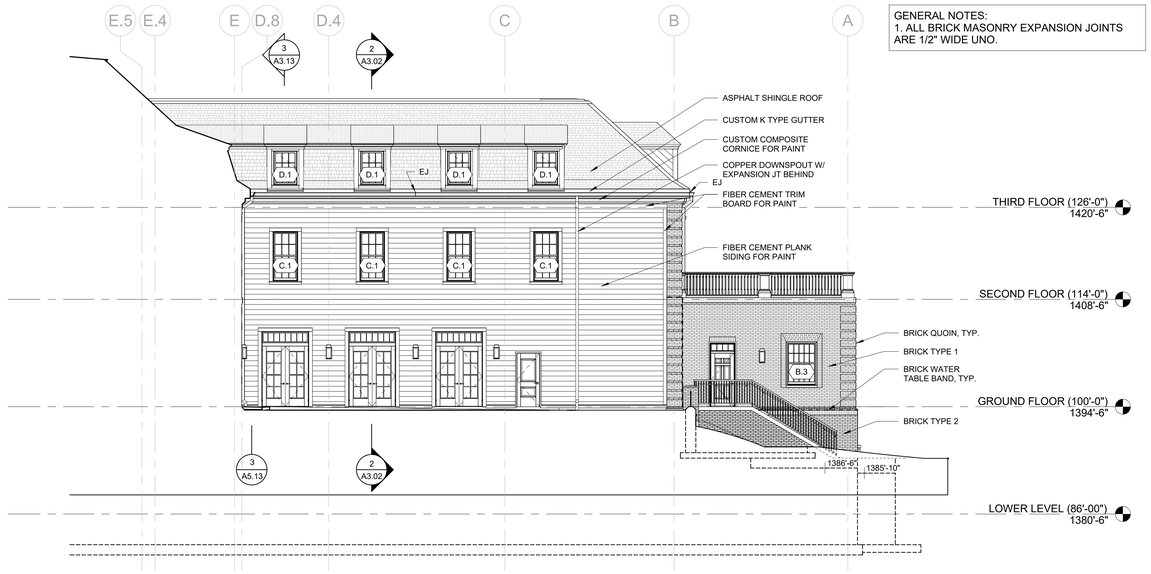
6 WEST ELEVATION AT TRASH ENCLOSURE
1/8" = 1'-0"



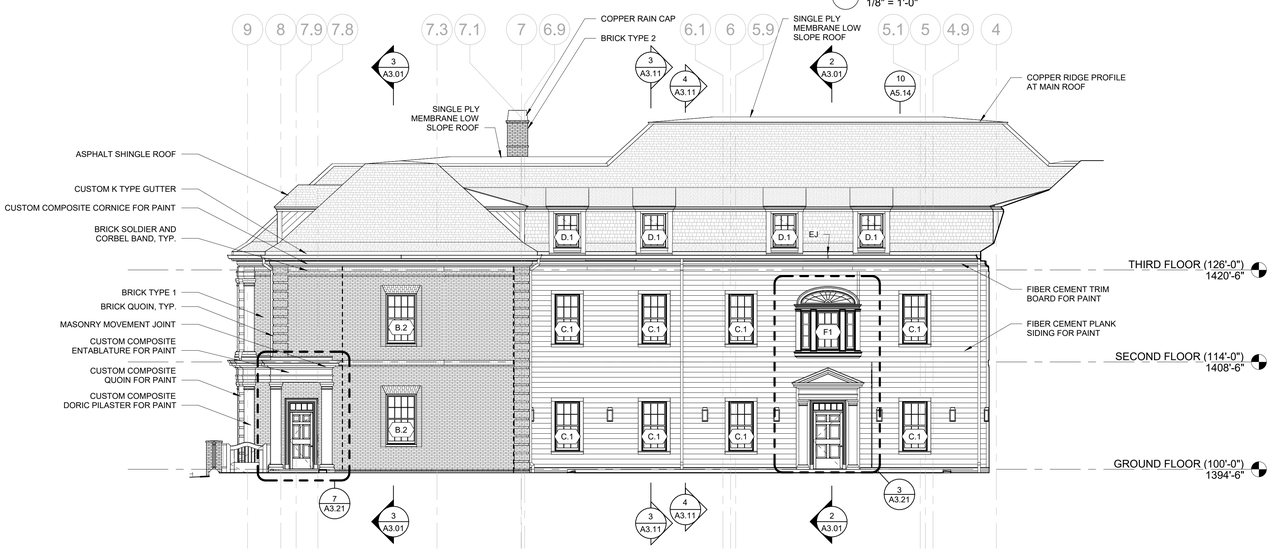
5 WEST ELEVATION AT CHILLER
1/8" = 1'-0"



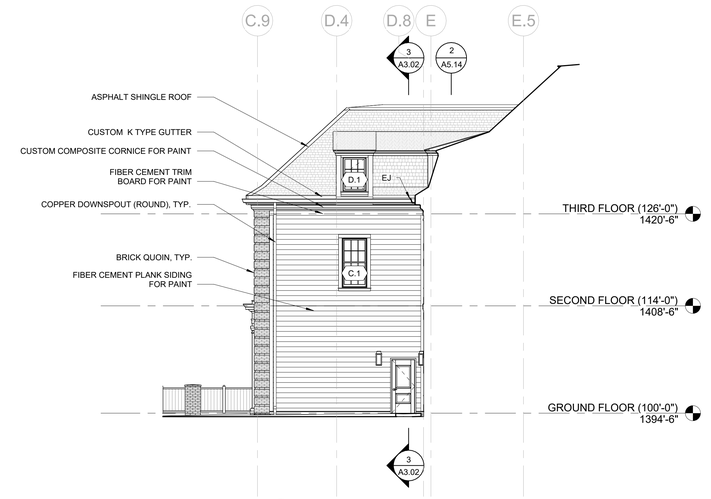
4 SOUTH ELEVATION AT CHILLER, TRASH ENCLOSURE
1/8" = 1'-0"



3 EAST ELEVATION AT COURTYARD
1/8" = 1'-0"



2 NORTH ELEVATION AT COURTYARD
1/8" = 1'-0"



1 WEST ELEVATION AT COURTYARD
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
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12.18.2025
Title

EXTERIOR ELEVATIONS
Sheet No.
A2.03

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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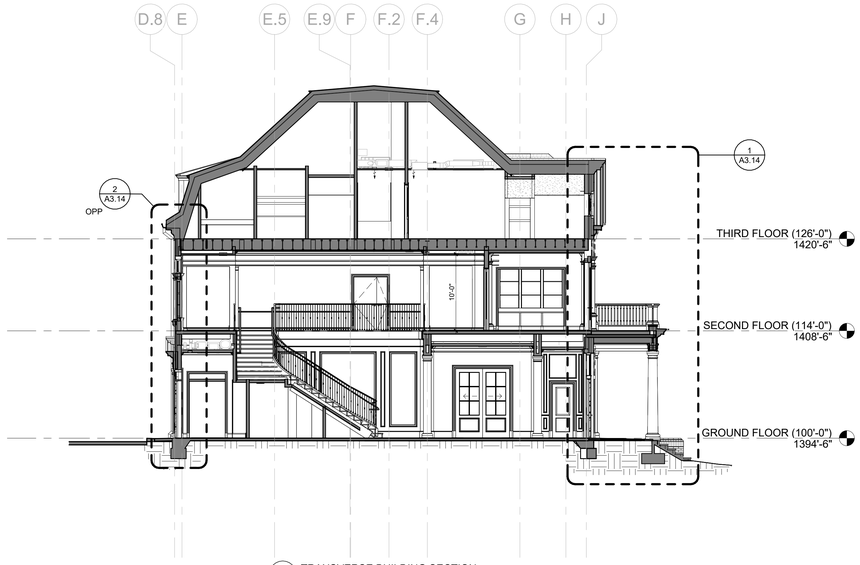
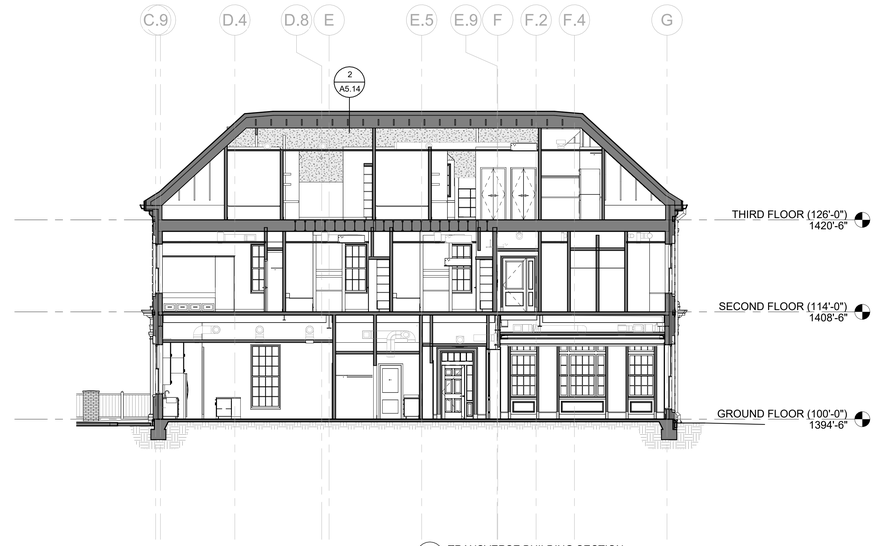


2 TRANSVERSE BUILDING SECTION
1/8" = 1'-0"



3 TRANSVERSE BUILDING SECTION
1/8" = 1'-0"



1 TRANSVERSE BUILDING SECTION
1/8" = 1'-0"

Project Name
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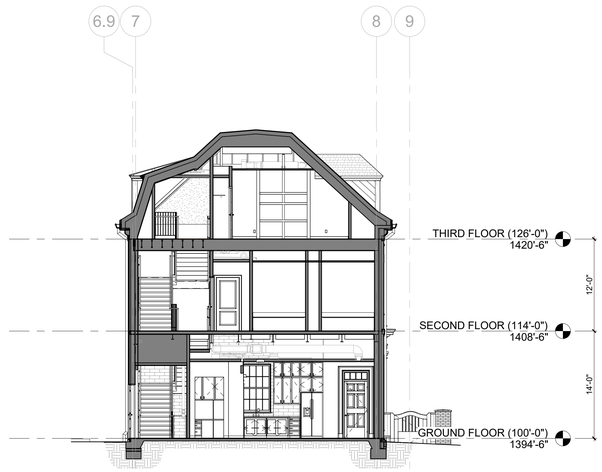
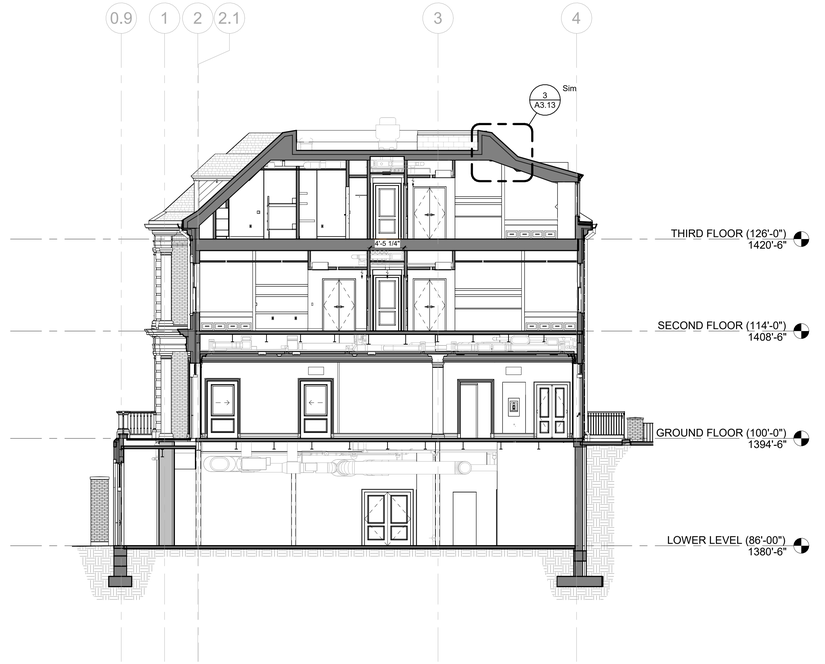
Job No.
UAFAPH-21.01
Date
12.18.2025
Title

BUILDING SECTIONS
Sheet No.
A3.01



3 LONGITUDINAL SECTION 3
1/8" = 1'-0"



2 LONGITUDINAL SECTION 2
1/8" = 1'-0"



1 LONGITUDINAL SECTION 1
1/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

BUILDING SECTIONS
Sheet No.
A3.02

Project Name
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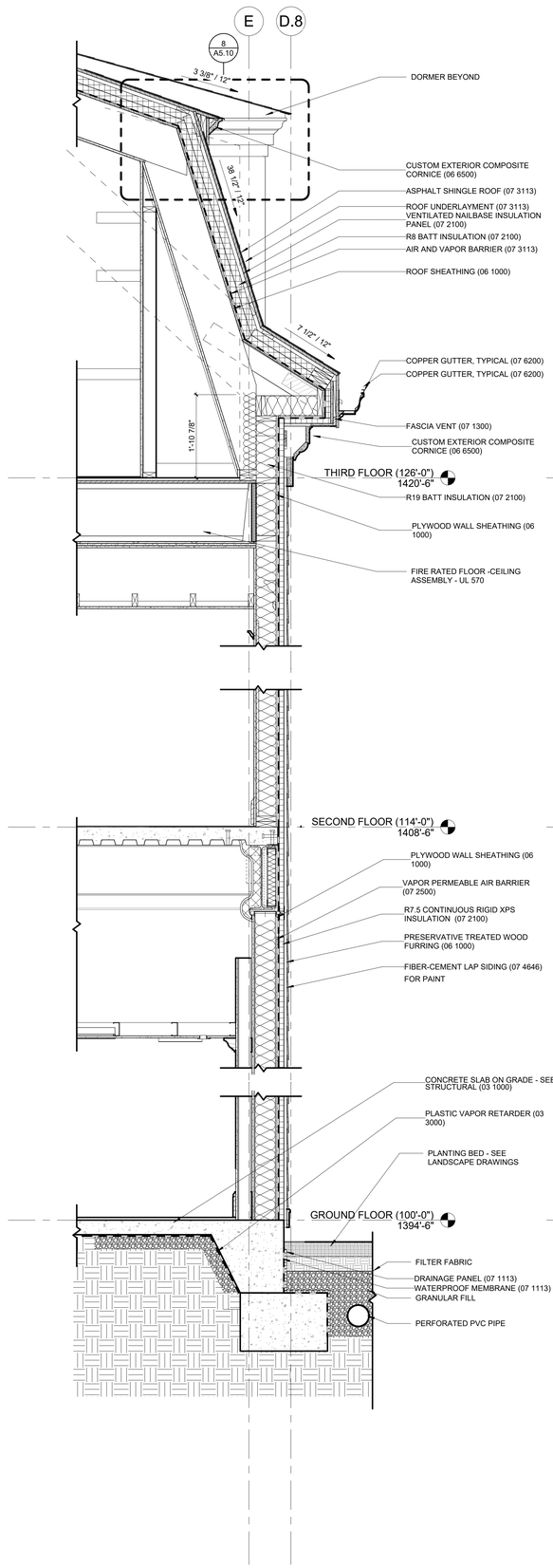
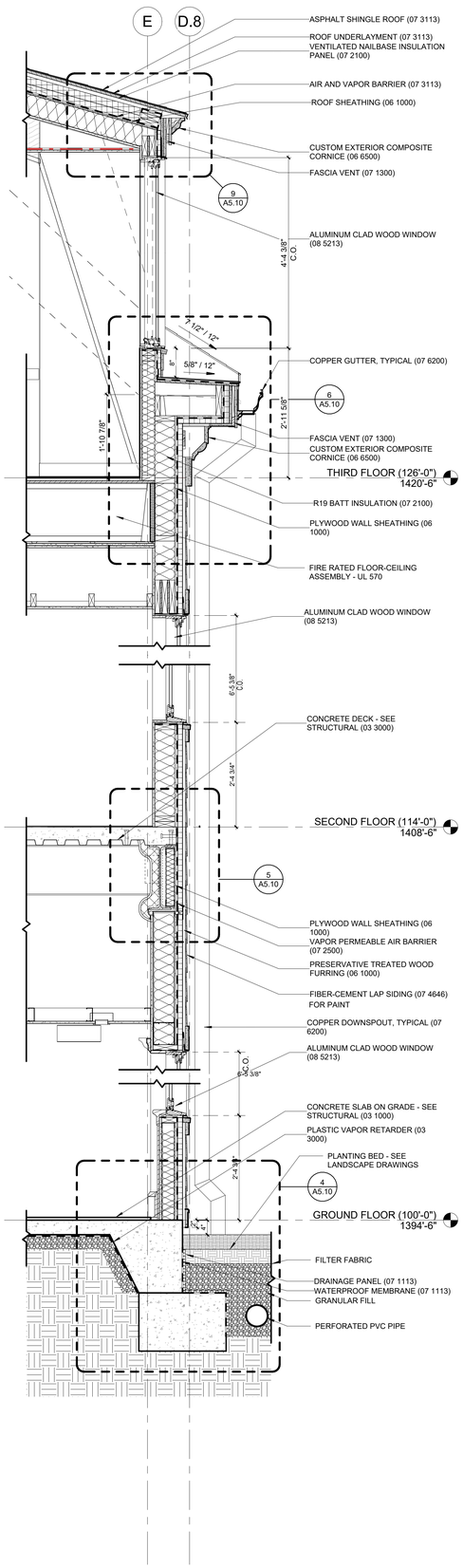
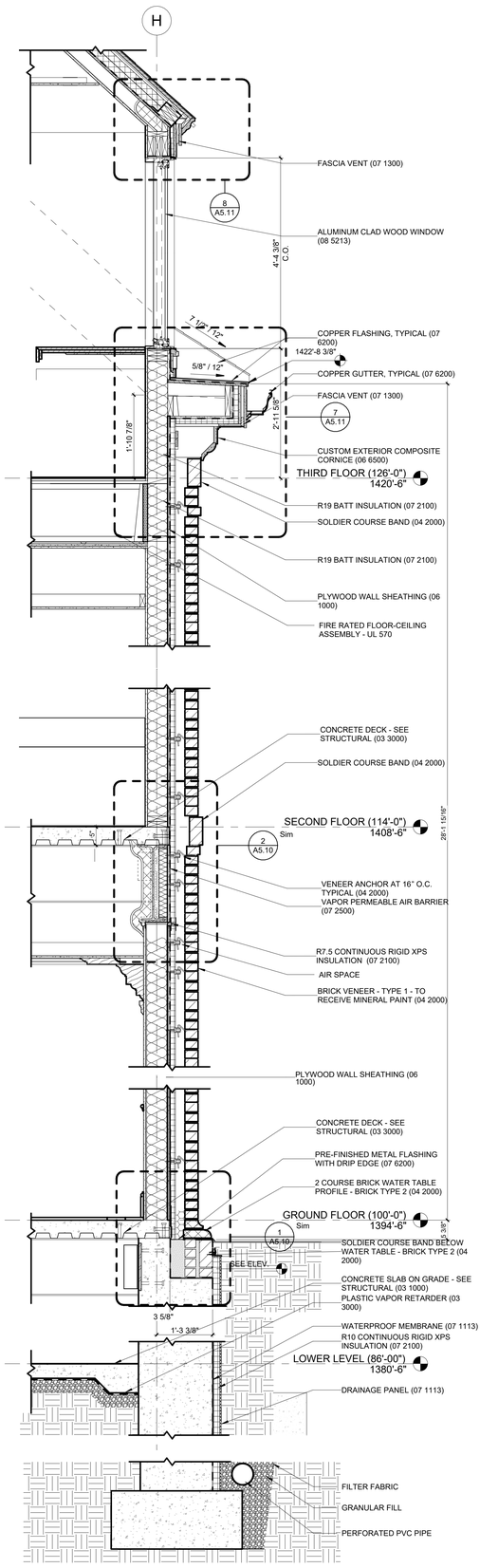


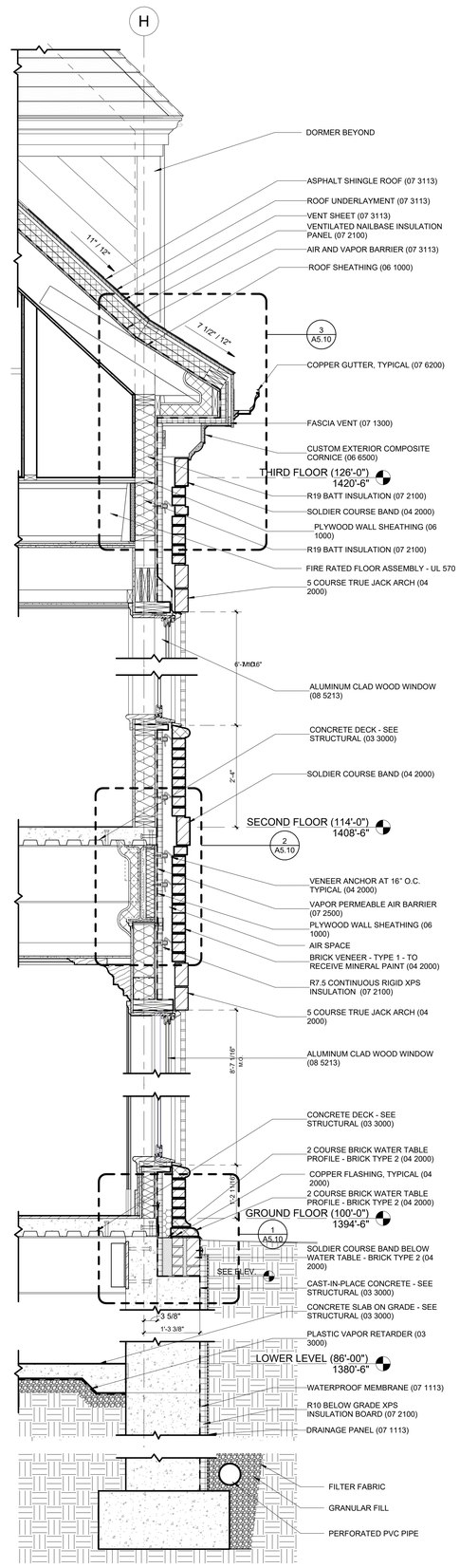
4 WALL SECTION - NORTH MANOR WALL WALL AT COURTYARD
3/4" = 1'-0"



3 WALL SECTION - NORTH MANOR AT COURTYARD
3/4" = 1'-0"



2 WALL SECTION - SOUTH MANOR WALL
3/4" = 1'-0"



1 WALL SECTION - SOUTH MANOR
3/4" = 1'-0"

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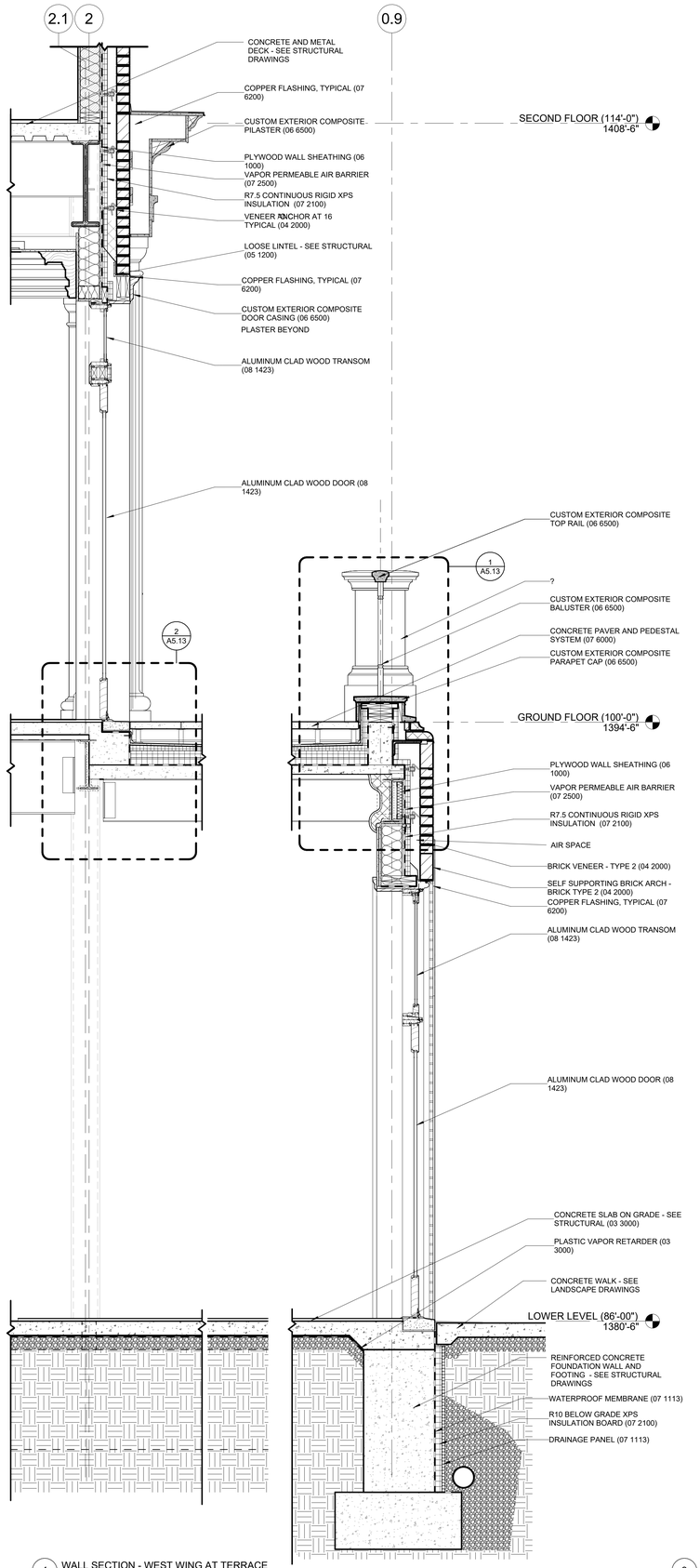
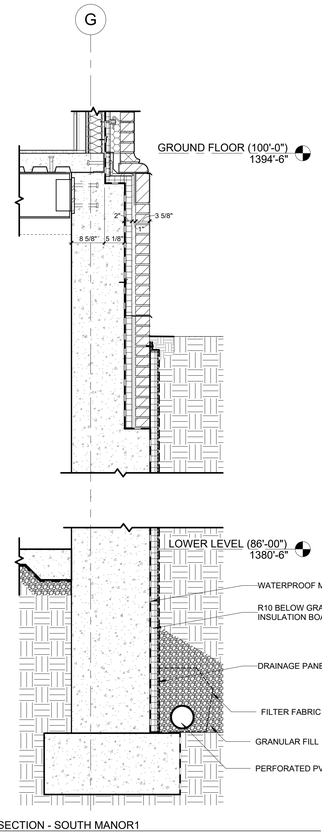
WALL SECTIONS

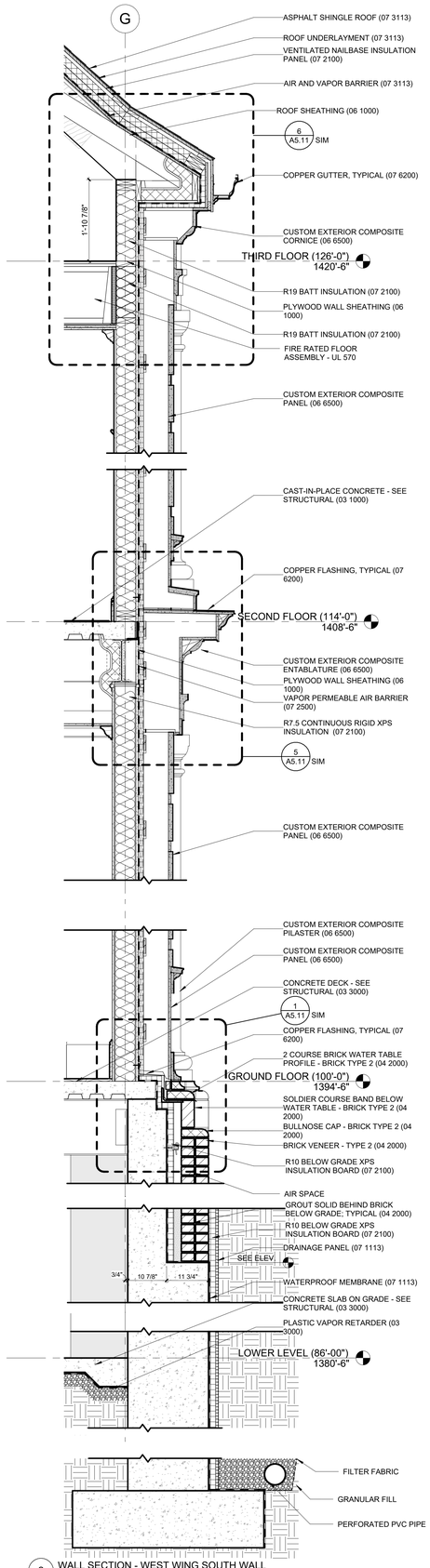
Sheet No.
A3.11



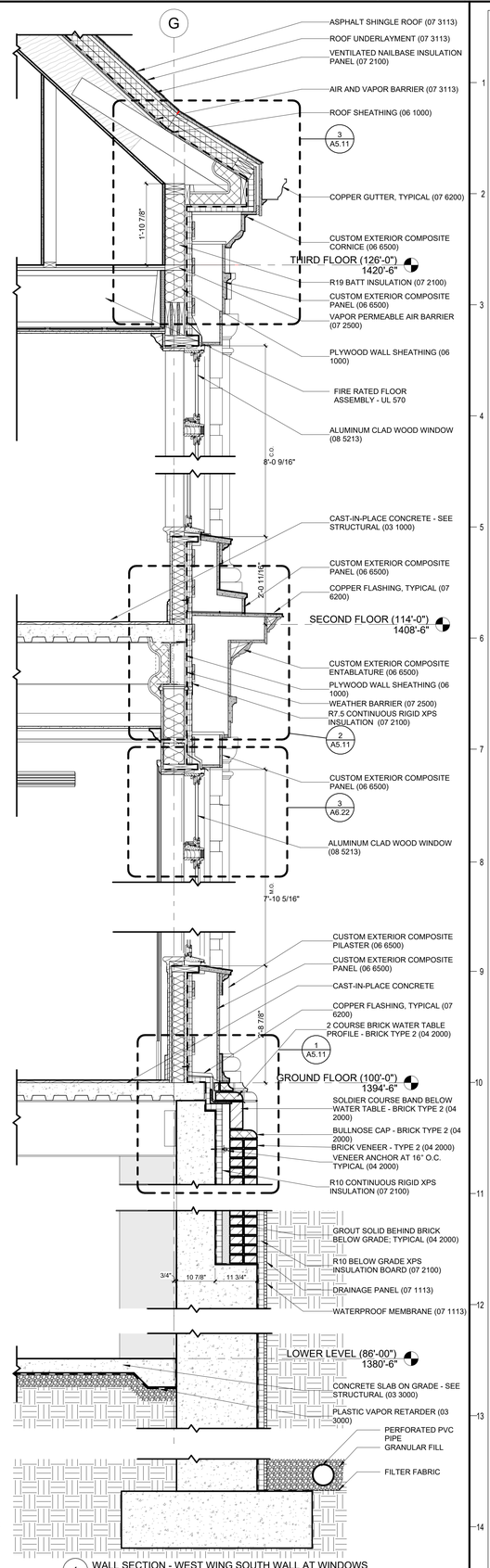
4 WALL SECTION - WEST WING AT TERRACE
3/4" = 1'-0"



3 WALL SECTION - SOUTH MANOR1
3/4" = 1'-0"



2 WALL SECTION - WEST WING SOUTH WALL
3/4" = 1'-0"



1 WALL SECTION - WEST WING SOUTH WALL AT WINDOWS
3/4" = 1'-0"

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WALL SECTIONS

Sheet No.
A3.12

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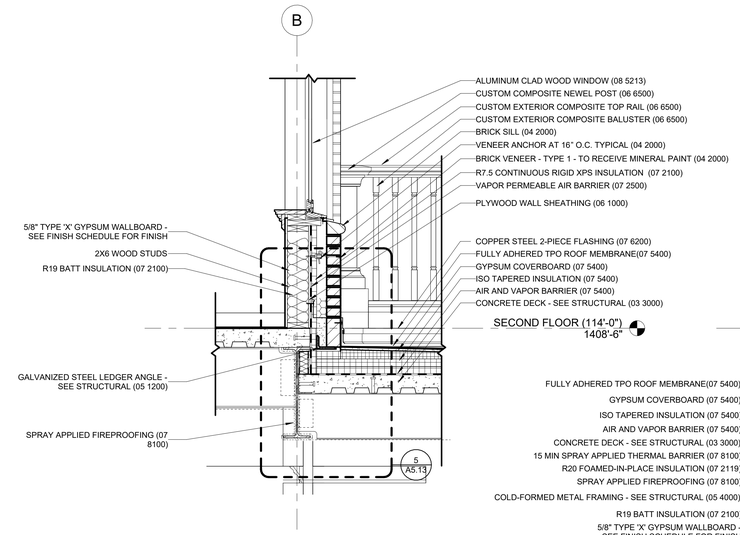
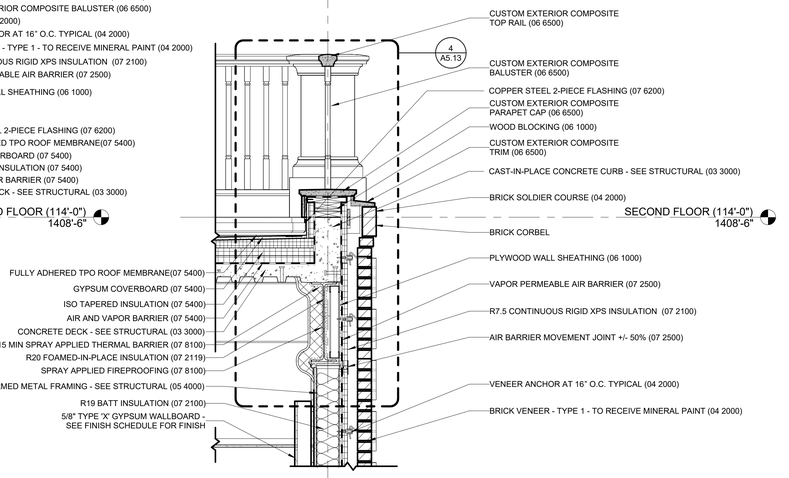
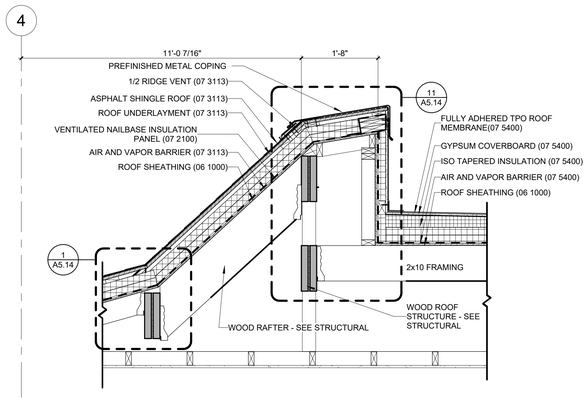
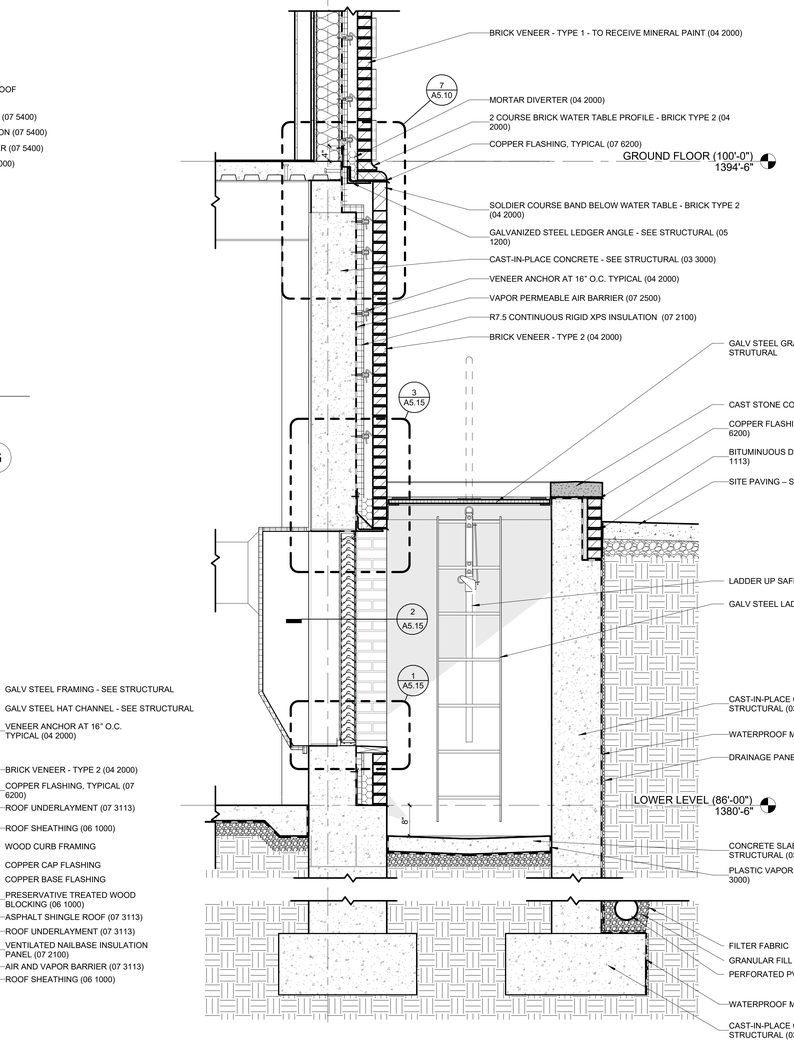


4 WALL SECTION - WEST WING NORTH WALL AT ROOF
3/4" = 1'-0"

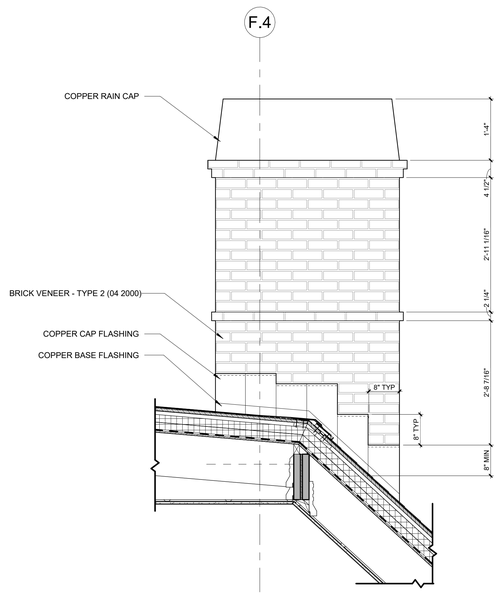




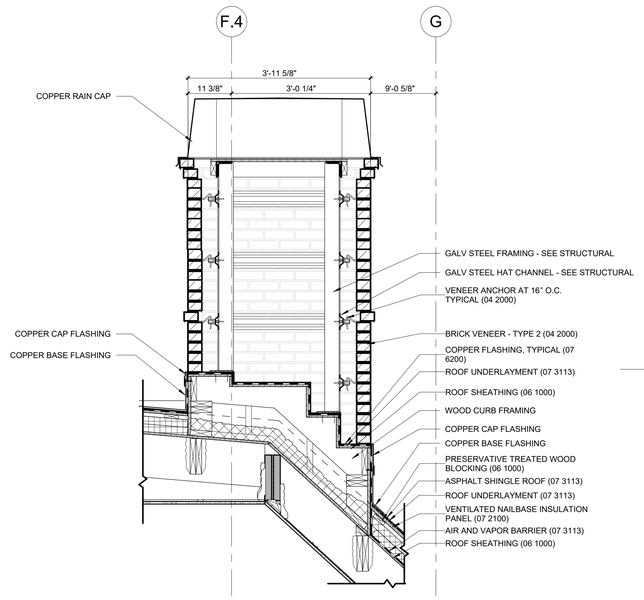
3 SECTION - WEST WING FLAT ROOF Copy 1
3/4" = 1'-0"



1 WALL SECTION - WEST WING NORTH WALL
3/4" = 1'-0"



5 SECTION - ROOF CHIMNEY BASE 2
3/4" = 1'-0"



2 SECTION - ROOF CHIMNEY BASE
3/4" = 1'-0"

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WALL SECTIONS

Sheet No.
A3.13

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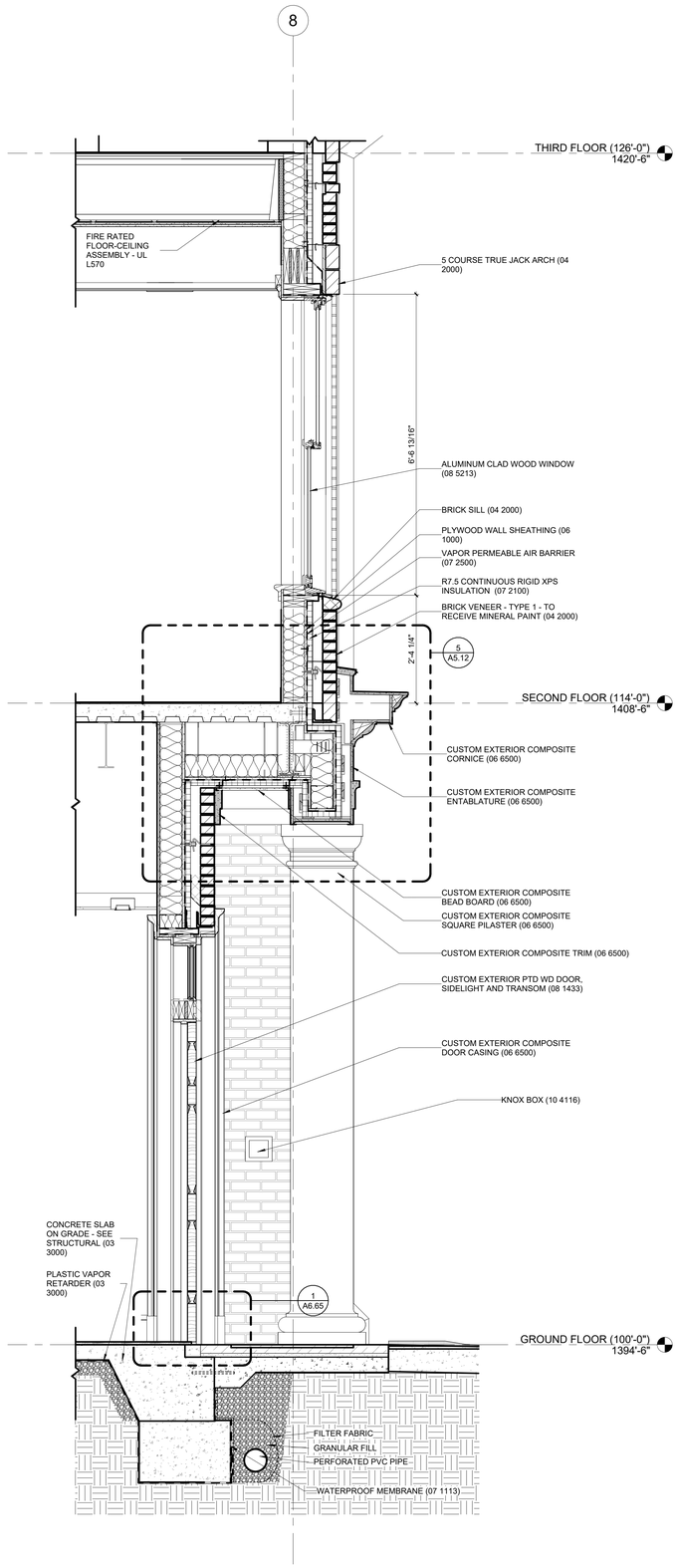
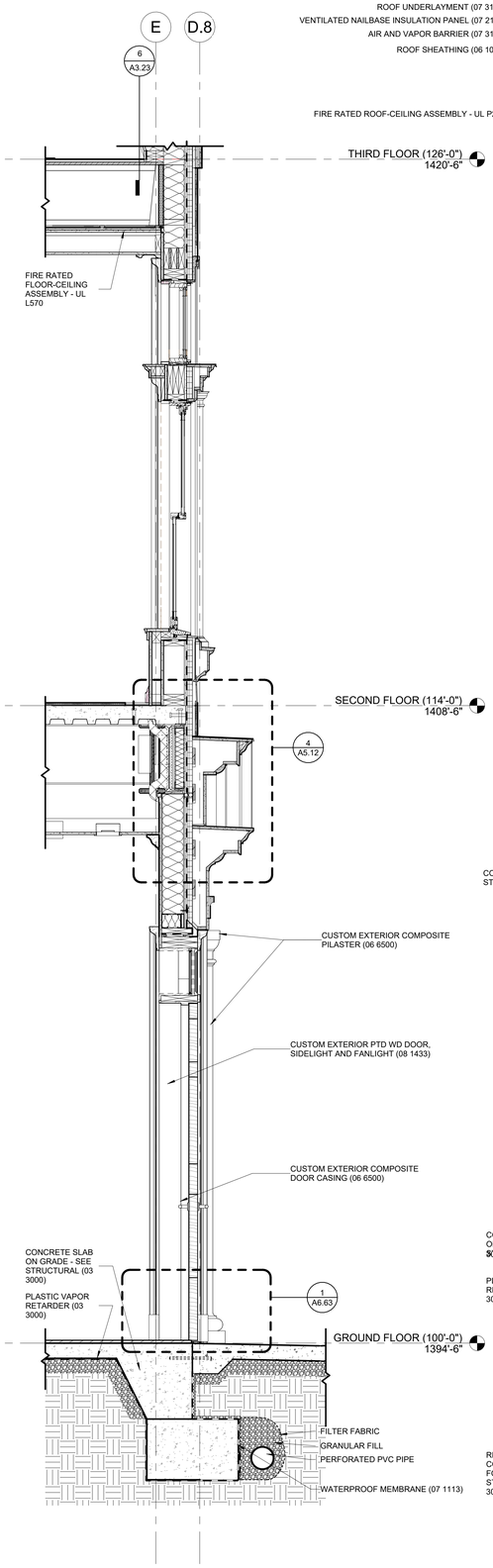
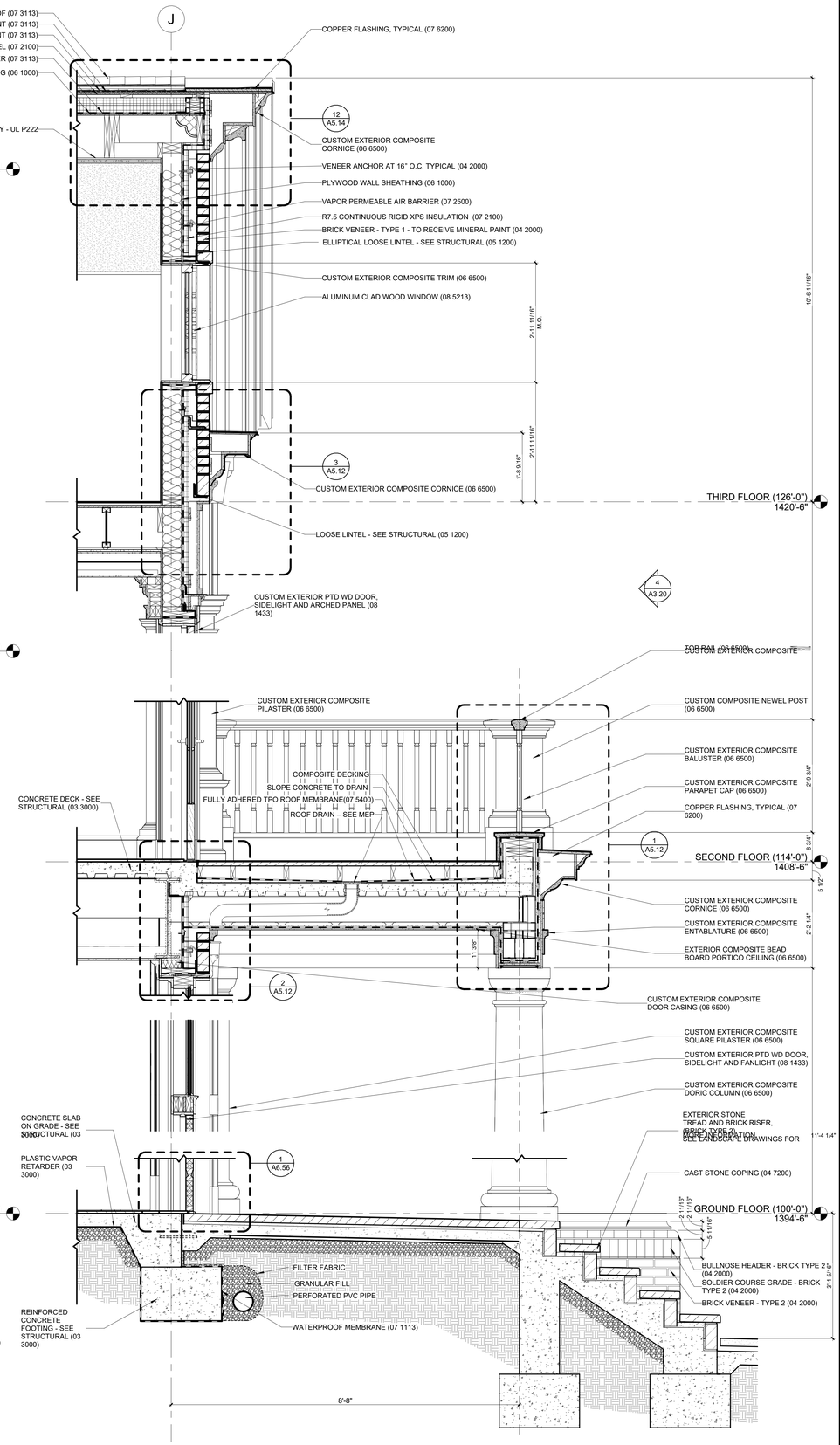


3 WALL SECTION - EAST ENTRY
3/4" = 1'-0"



2 WALL SECTION - NORTH ENTRY
3/4" = 1'-0"



1 SECTION - SOUTH ENTRY PORTICO
3/4" = 1'-0"

Project Name
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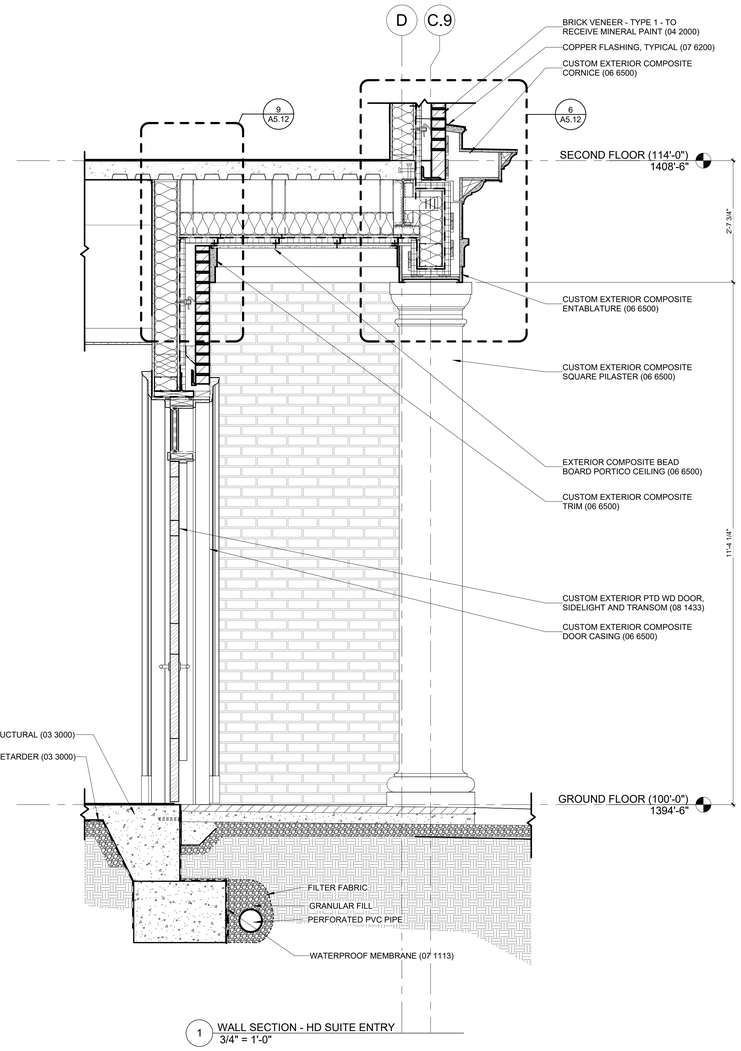
Date 12.18.2025

Title WALL SECTIONS

Sheet No. **A3.14**



1 WALL SECTION - HD SUITE ENTRY
3/4" = 1'-0"

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WALL SECTIONS

Sheet No.

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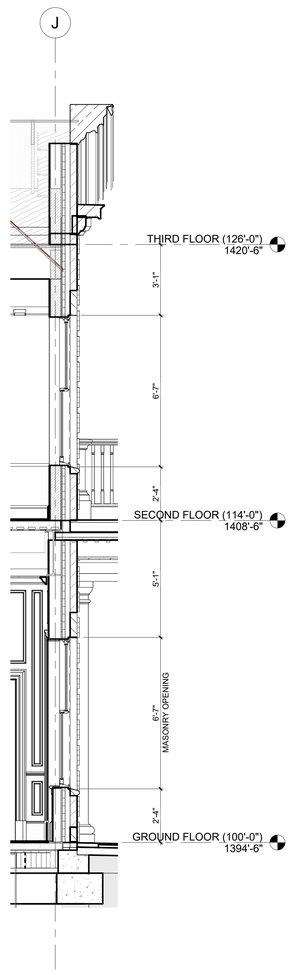
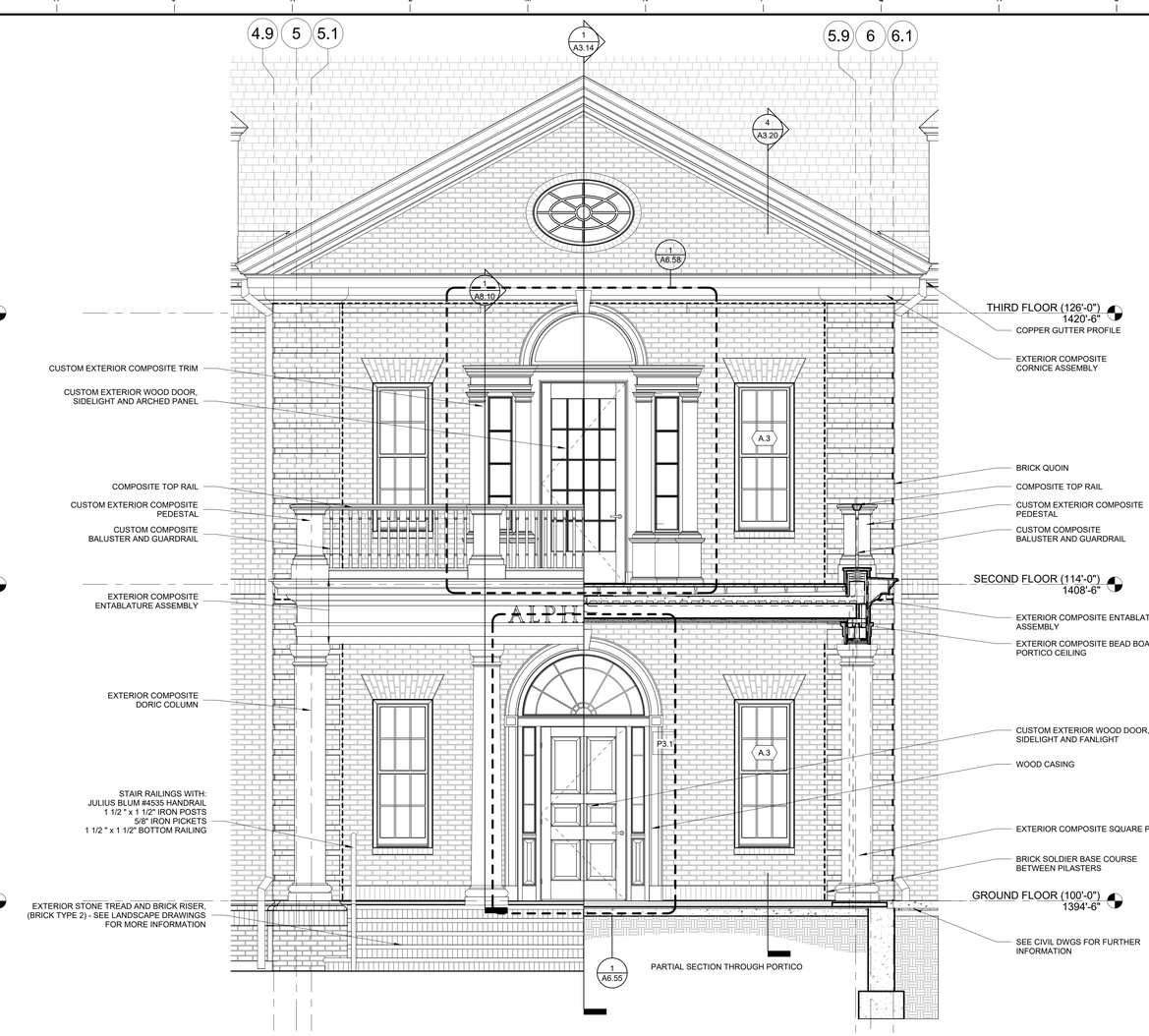
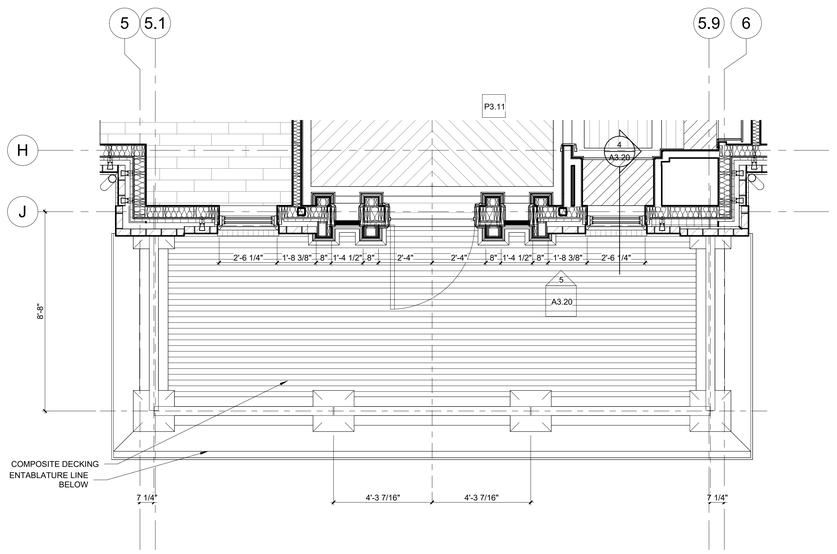


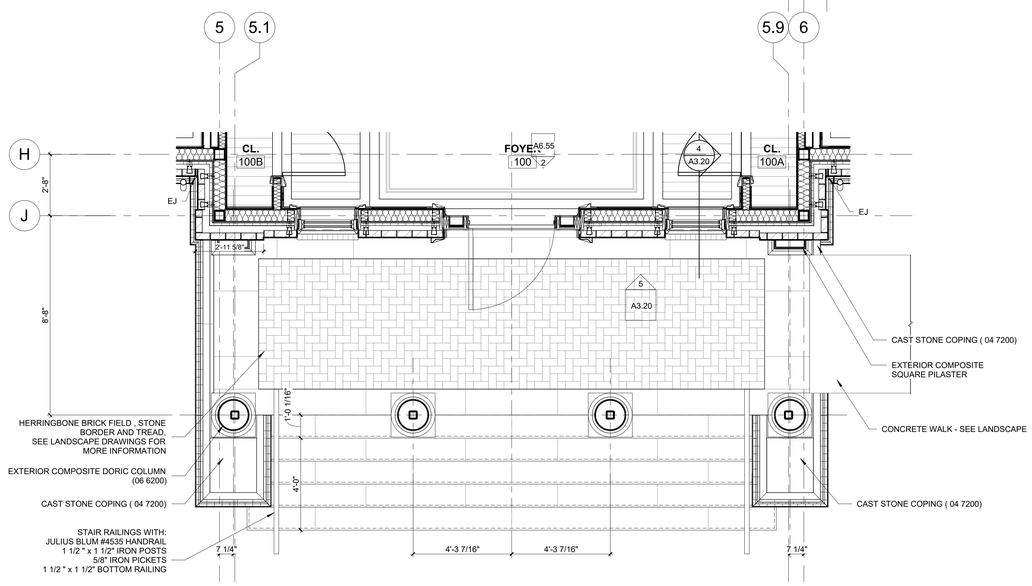
4 WALL SECTION - SOUTH ENTRY THRU WINDOWS
3/8" = 1'-0"



2 ENLARGED ELEVATION - SOUTH ENTRY
3/8" = 1'-0"



3 ENLARGED PLAN - 2ND FLOOR SOUTH PATIO
3/8" = 1'-0"



1 ENLARGED PLAN - SOUTH ENTRY
3/8" = 1'-0"

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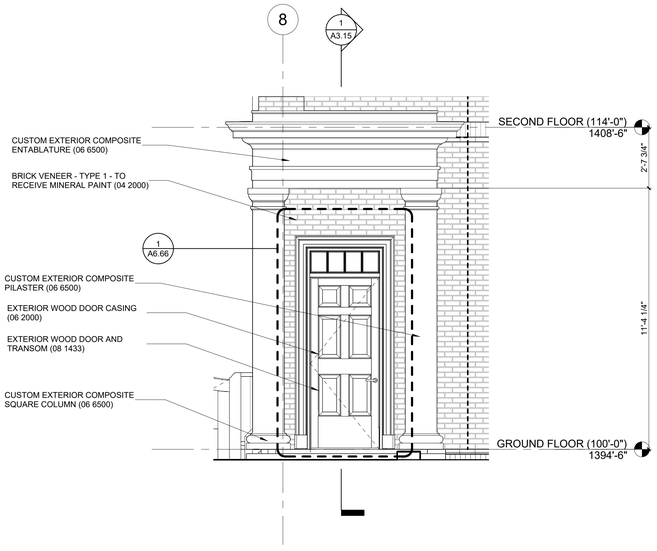
Title

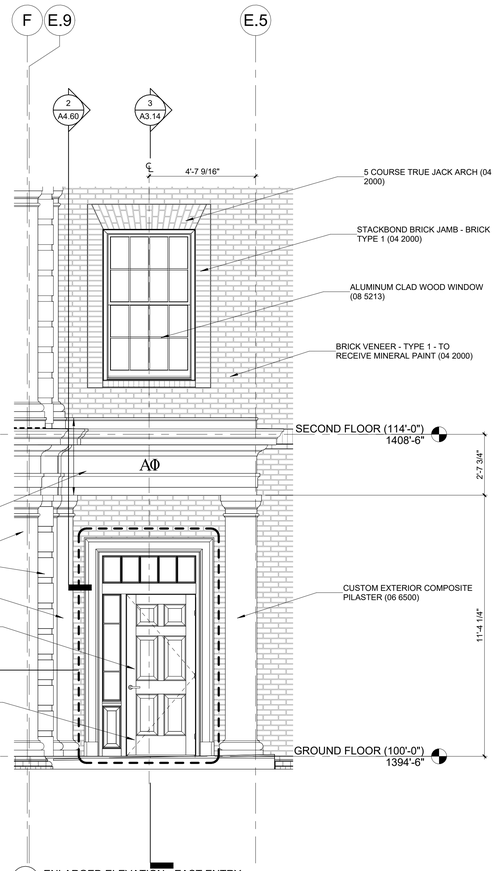
SOUTH MAIN ENTRY DETAILS

Sheet No.

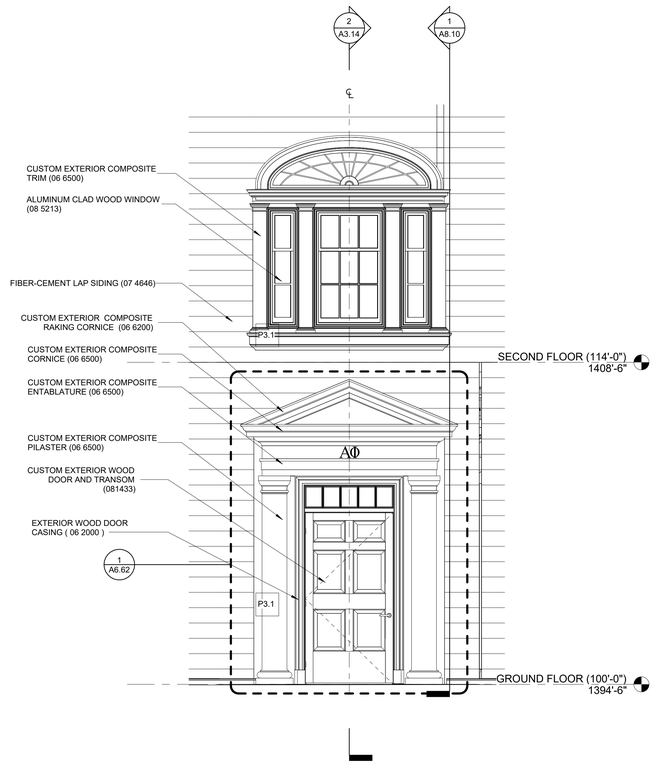
A3.20



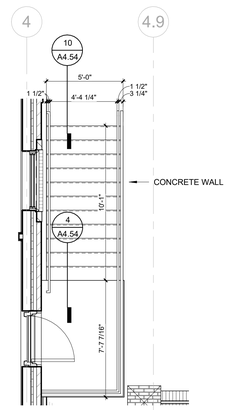
7 ENLARGED ELEVATION - HD SUITE ENTRY
3/8" = 1'-0"



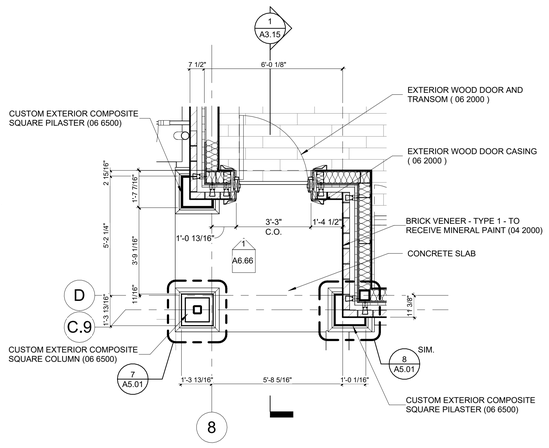
5 ENLARGED ELEVATION - EAST ENTRY
3/8" = 1'-0"



3 ENLARGED ELEVATION - COURTYARD ENTRY
3/8" = 1'-0"



8 ENLARGED PLAN - KITCHEN ENTRY
1/4" = 1'-0"



6 ENLARGED PLAN - HD SUITE ENTRY
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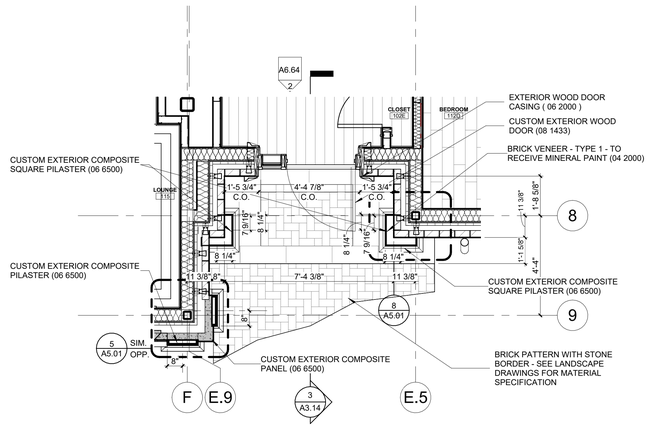
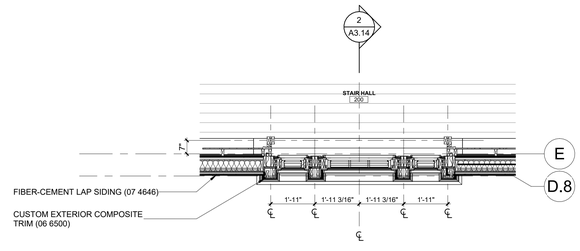
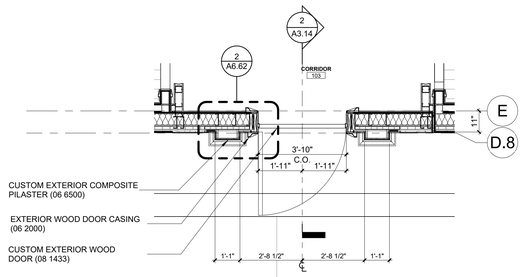


4 ENLARGED PLAN - EAST ENTRY - GROUND FLOOR
3/8" = 1'-0"



2 ENLARGED PLAN - COURTYARD ENTRY - SECOND FLOOR
3/8" = 1'-0"



1 ENLARGED PLAN - COURTYARD ENTRY - GROUND FLOOR
3/8" = 1'-0"

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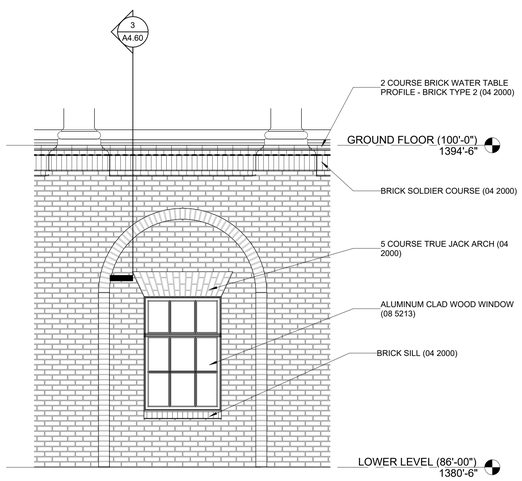
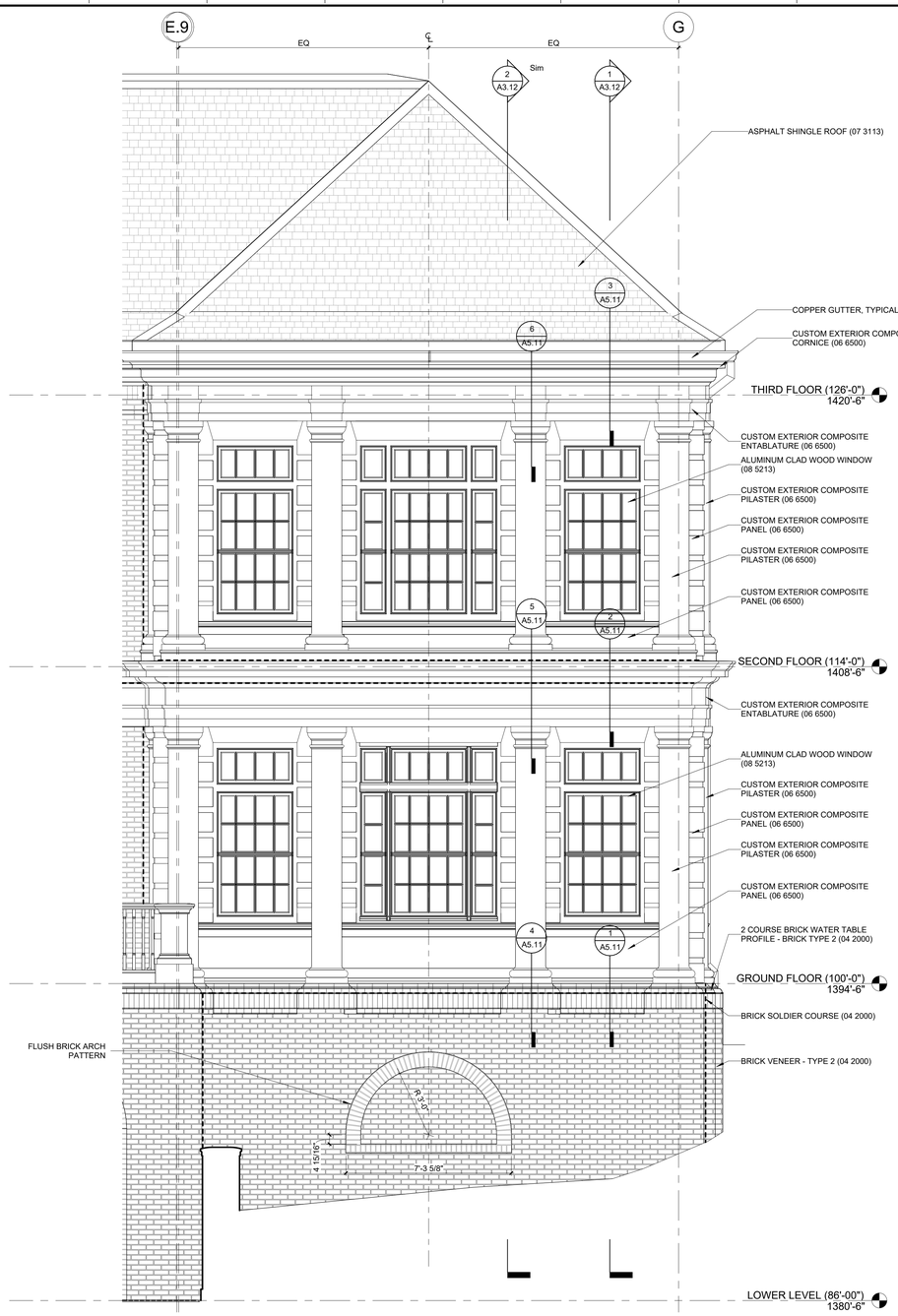
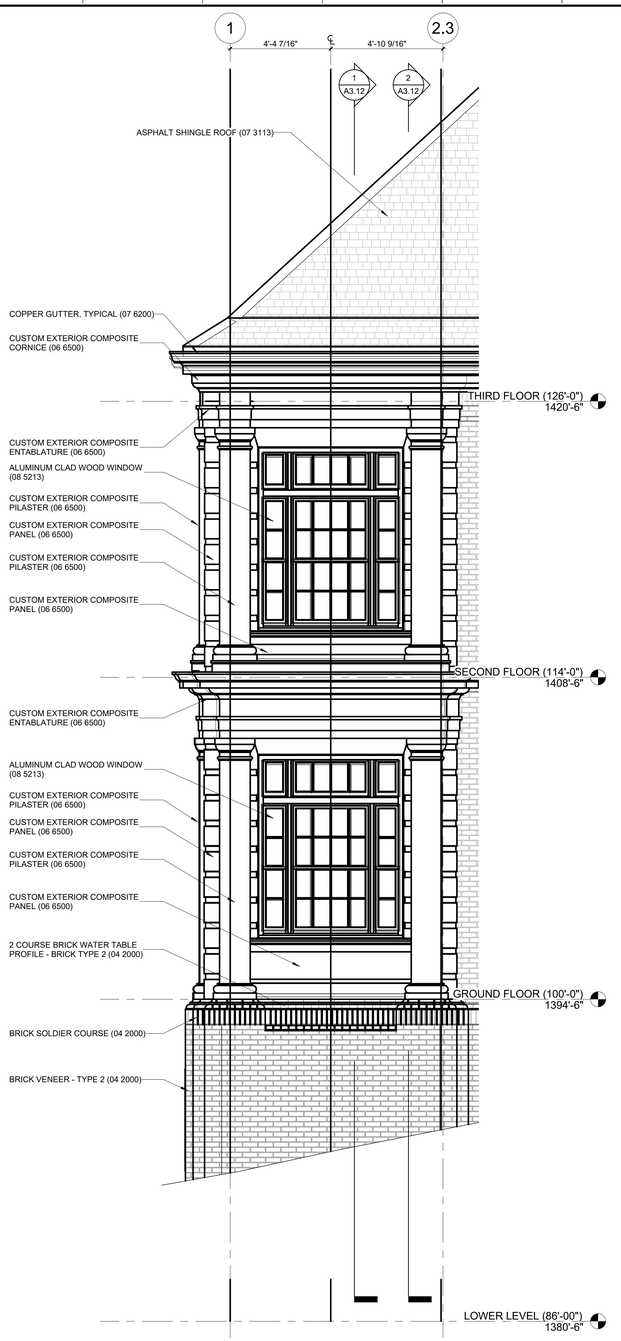
Title NORTH MAIN ENTRY DETAILS
Sheet No. **A3.21**

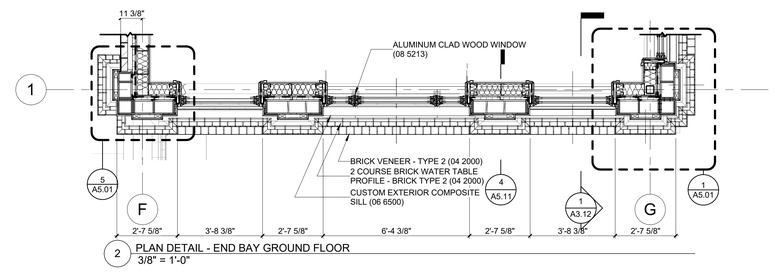


1 ENLARGED ELEVATION - NW END BAY WINDOW
3/8" = 1'-0"





4 ENLARGED ELEVATION - END BAY SIDE
3/8" = 1'-0"



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END BAY DETAILS

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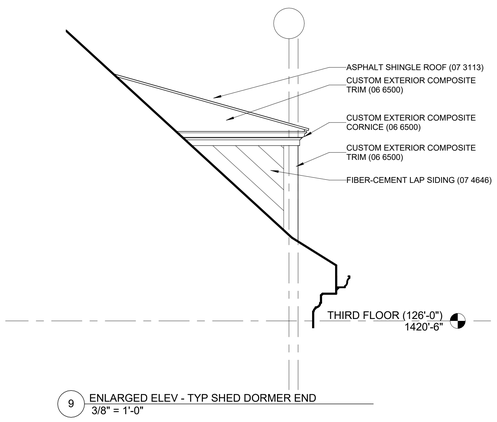
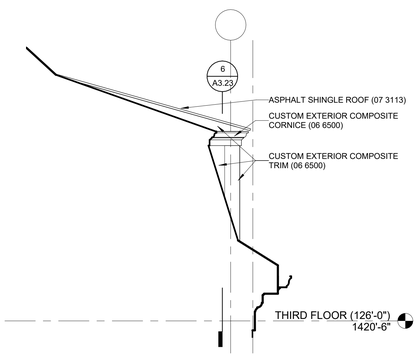
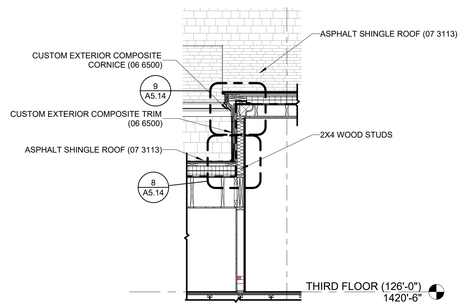


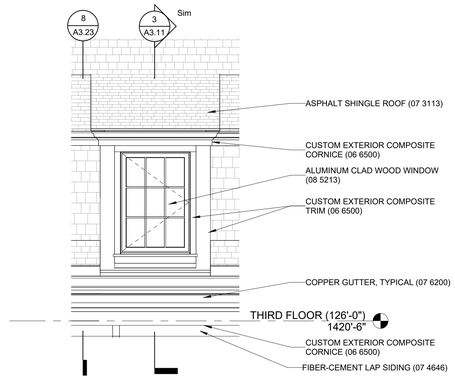
9 ENLARGED ELEV - TYP SHED DORMER END
3/8" = 1'-0"



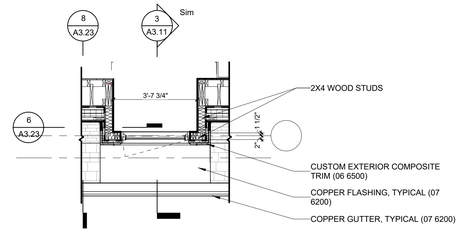
8 ENLARGED ELEV - TYP SHED DORMER SIDE
3/8" = 1'-0"



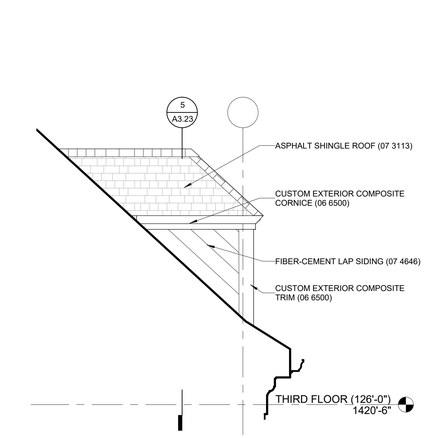
6 SECTION - TYP SHED DORMER SIDE
3/8" = 1'-0"



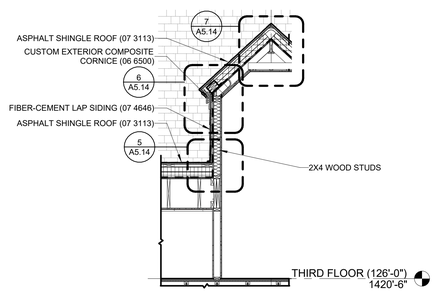
4 ENLARGED ELEV. - TYP SHED DORMER FRONT
3/8" = 1'-0"



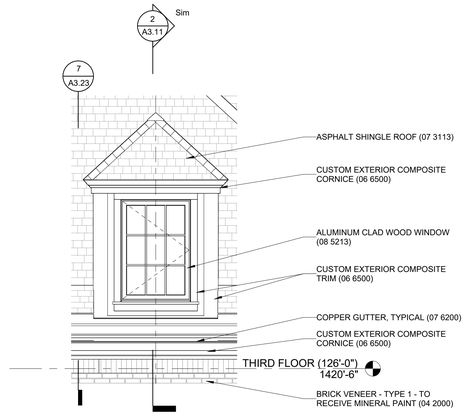
3 ENLARGED PLAN - TYP SHED DORMER
3/8" = 1'-0"



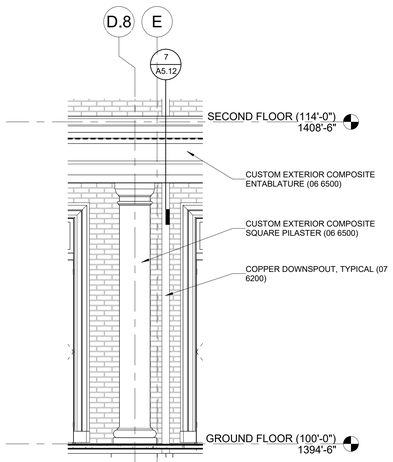
7 ENLARGED ELEV. - TYP HIP DORMER SIDE
3/8" = 1'-0"



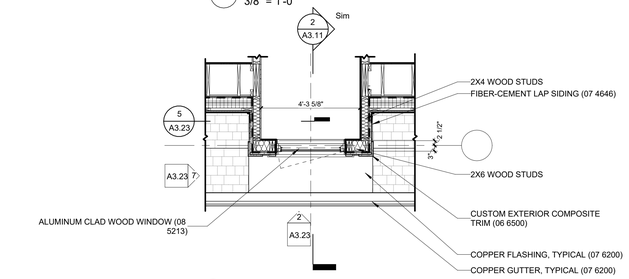
5 SECTION - TYP HIP DORMER SIDE
3/8" = 1'-0"



2 ENLARGED ELEV. - TYP HIP DORMER FRONT
3/8" = 1'-0"



10 ELEVATION - WEST WING TERRACE ENTABLATURE
3/8" = 1'-0"



1 ENLARGED PLAN - TYP HIP DORMER
3/8" = 1'-0"

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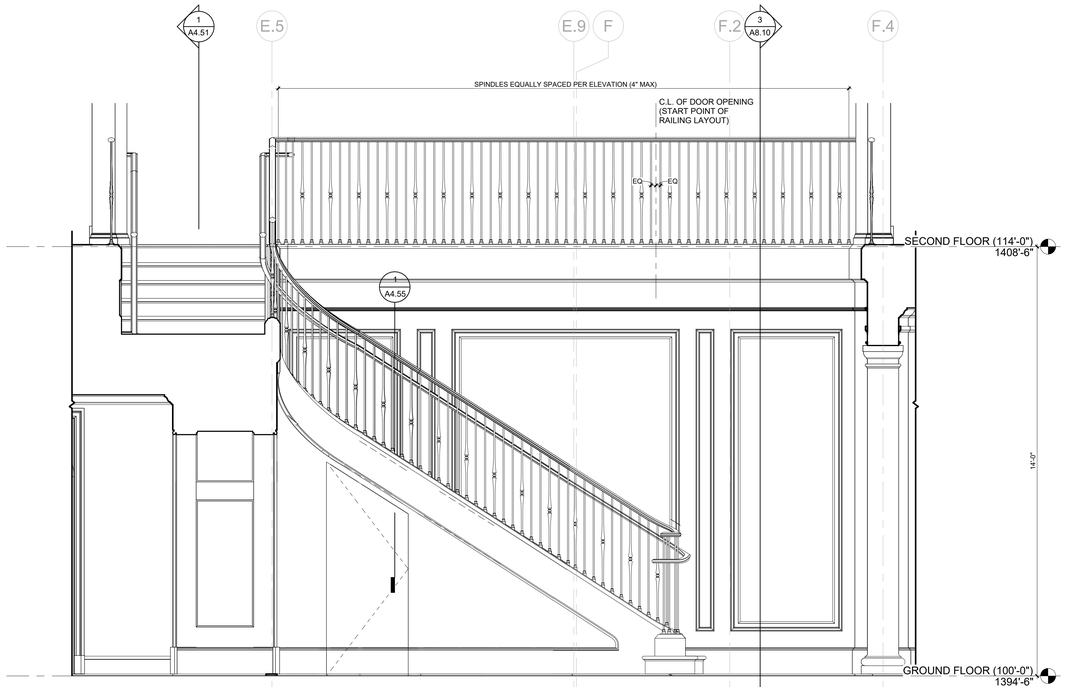
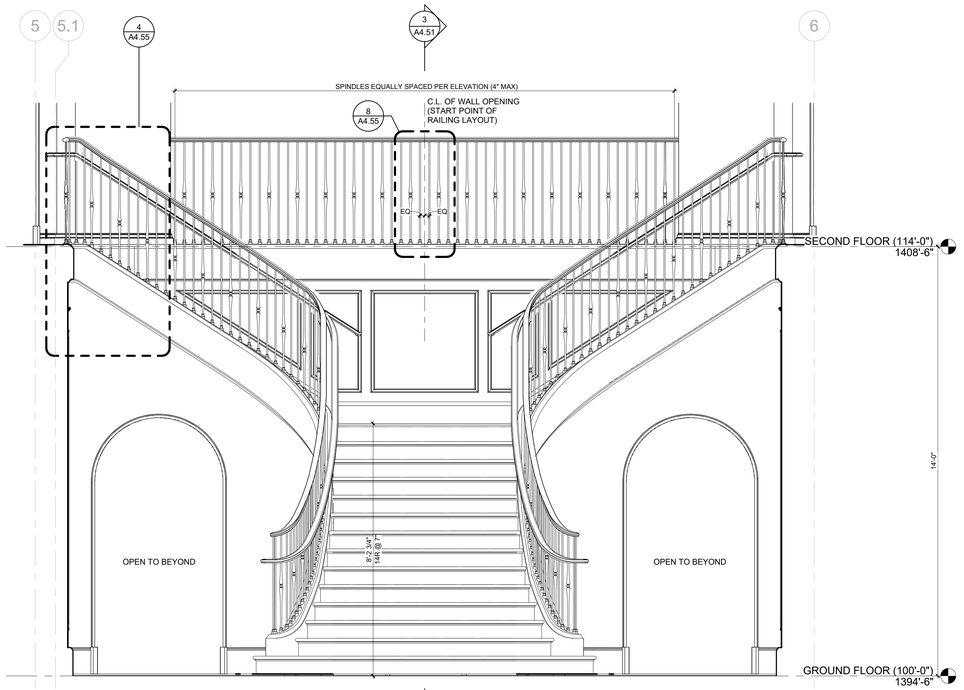
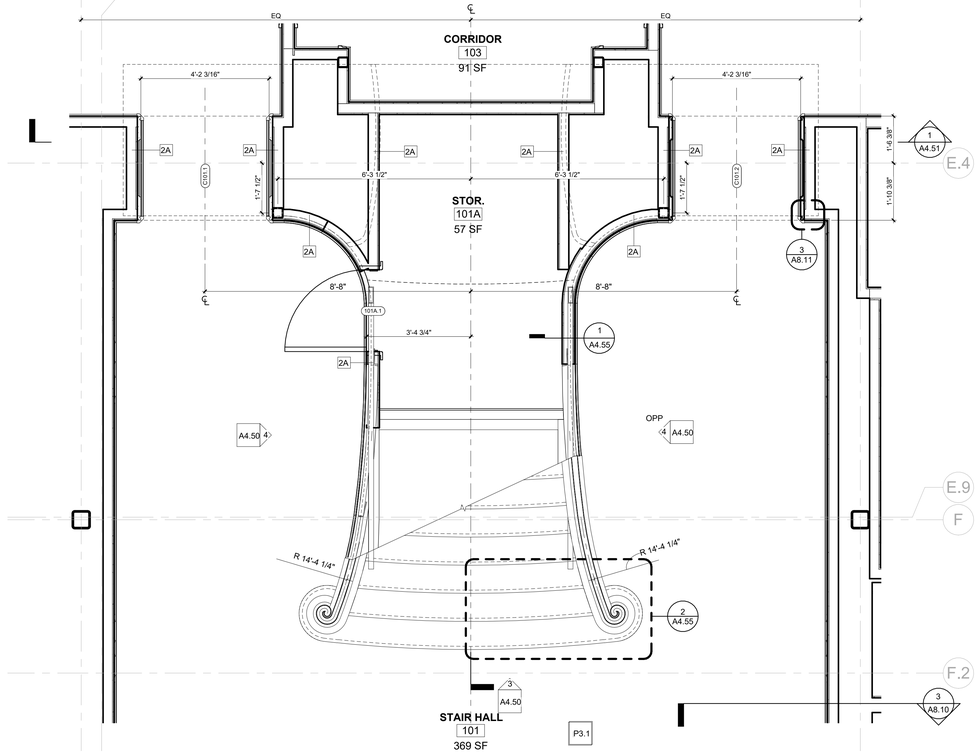


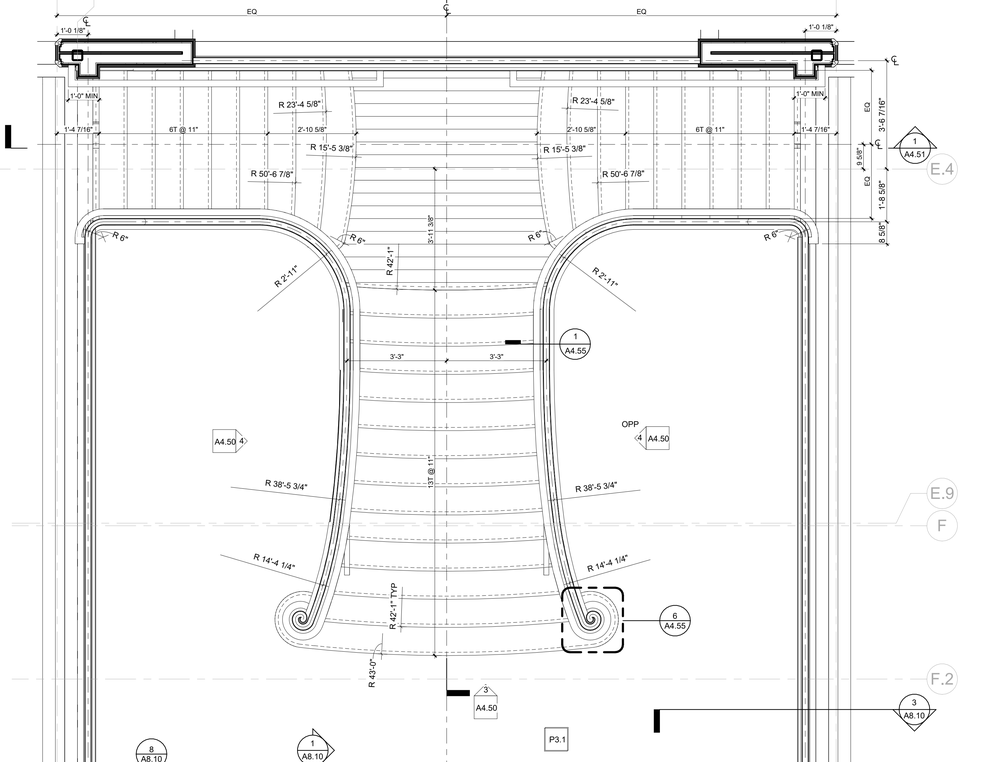
4 STAIR HALL STAIR ELEVATION N/S
1/2" = 1'-0"



3 STAIR HALL STAIR ELEVATION E/W
1/2" = 1'-0"



2 STAIR HALL STAIR PLAN - GROUND FLOOR
1/2" = 1'-0"



1 STAIR HALL STAIR PLAN - SECOND FLOOR
1/2" = 1'-0"

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STAIR PLANS AND SECTIONS

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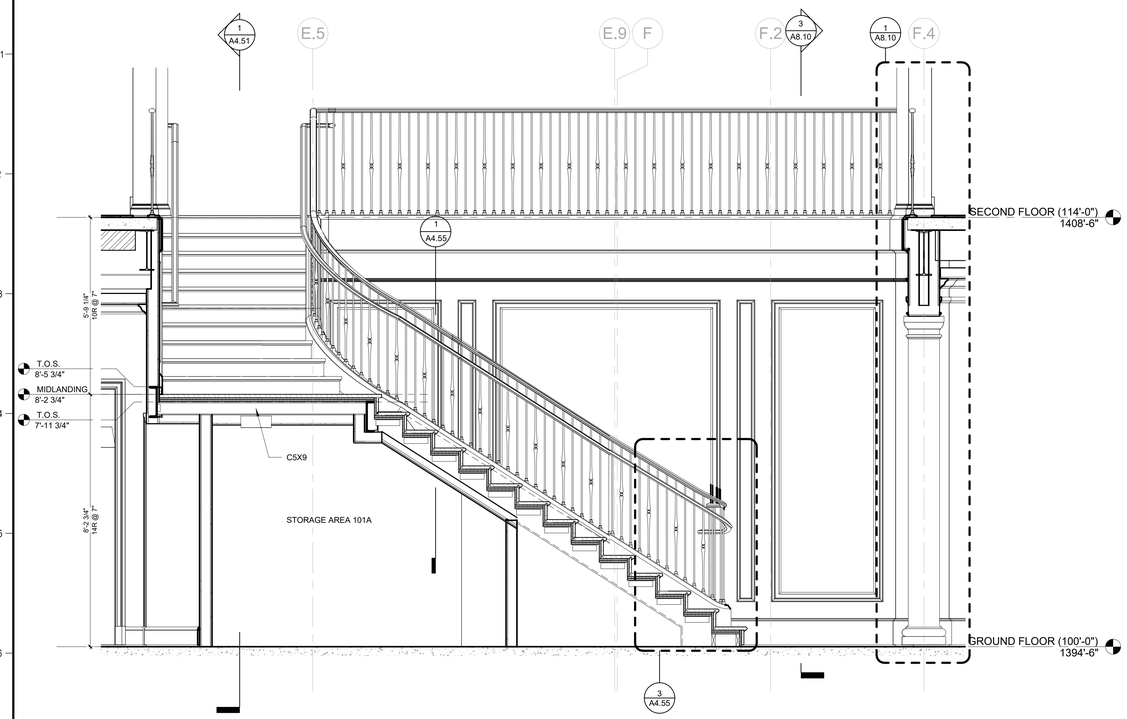

3 STAIR HALL STAIR SECTION N/S
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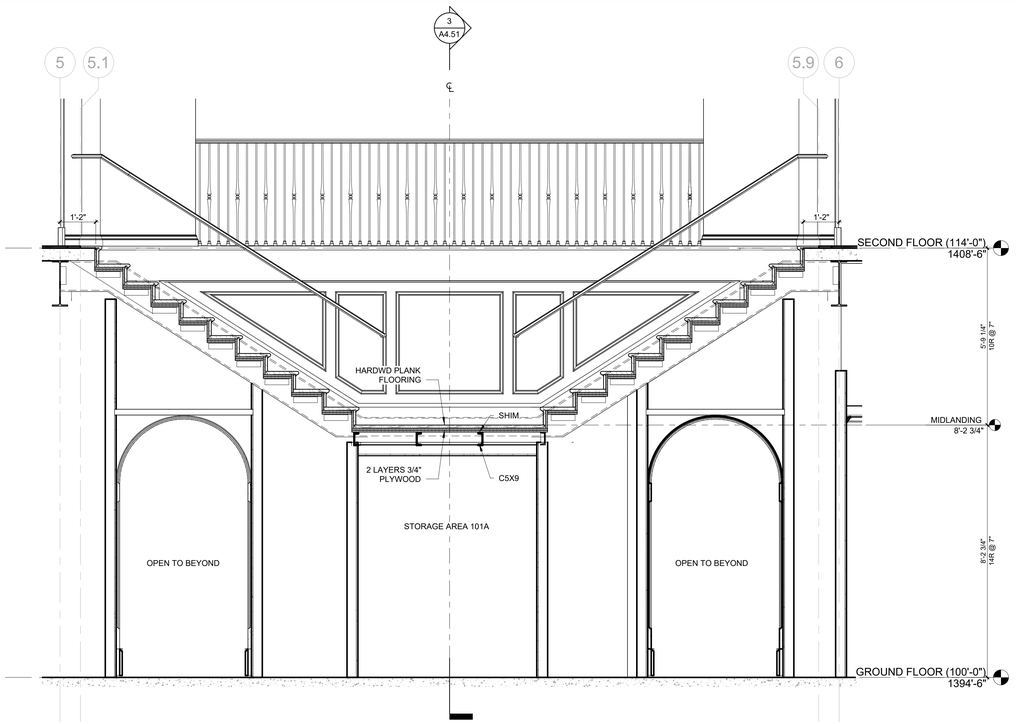

1 STAIR HALL STAIR SECTION E/W
1/2" = 1'-0"

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STAIR PLANS AND SECTIONS

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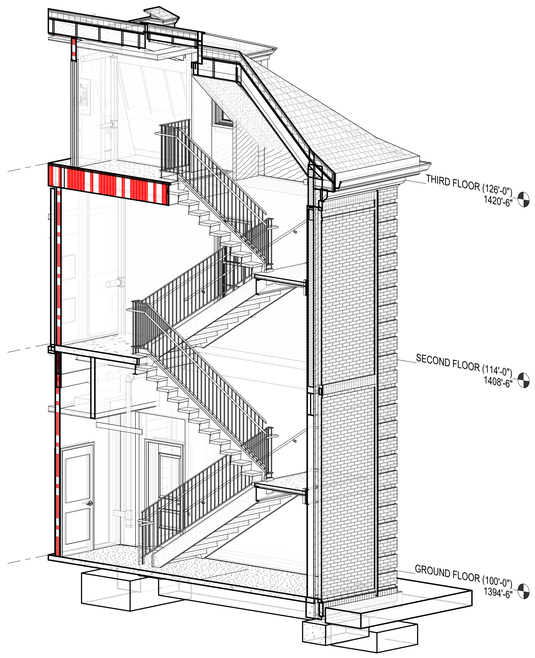
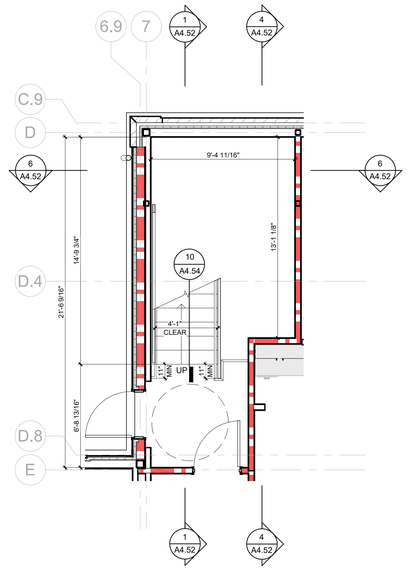
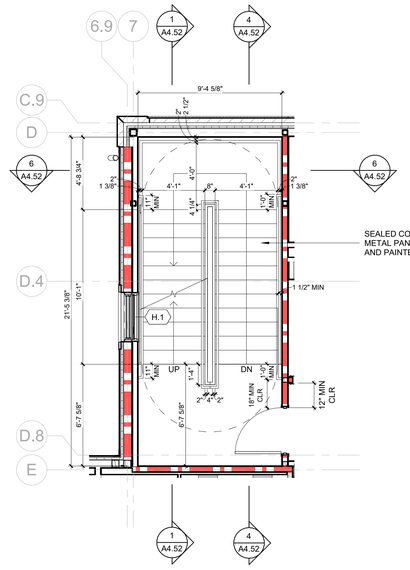


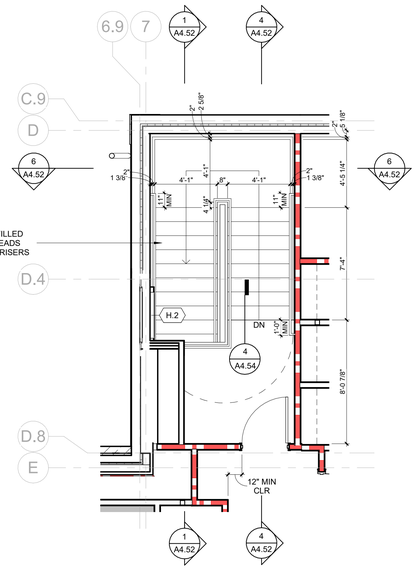
7 3D VIEW - STAIR A



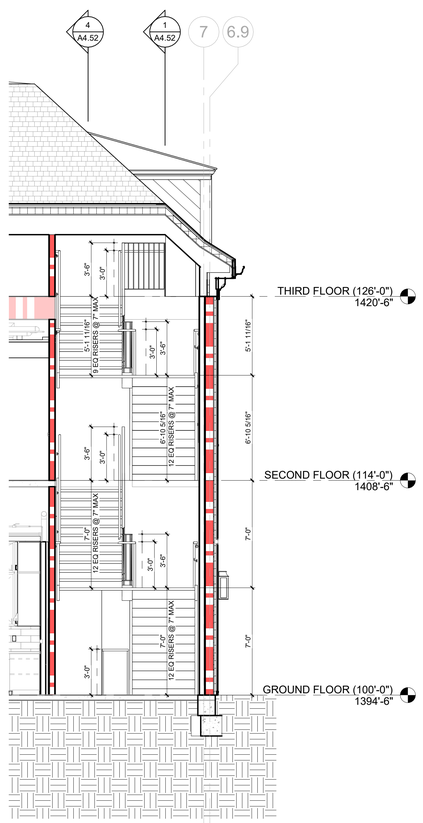
5 STAIR A PLAN - GROUND FLOOR
1/4" = 1'-0"



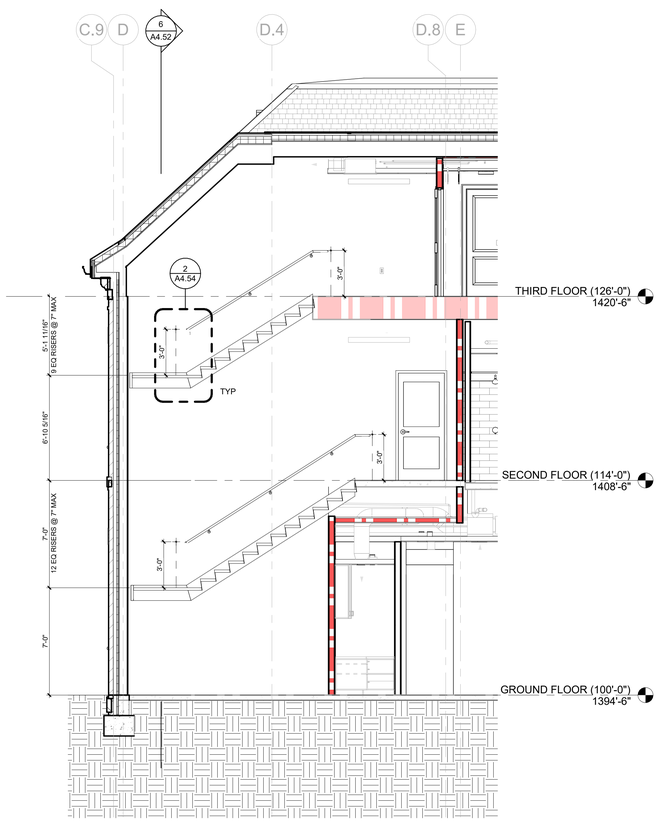
3 STAIR A PLAN - SECOND FLOOR
1/4" = 1'-0"



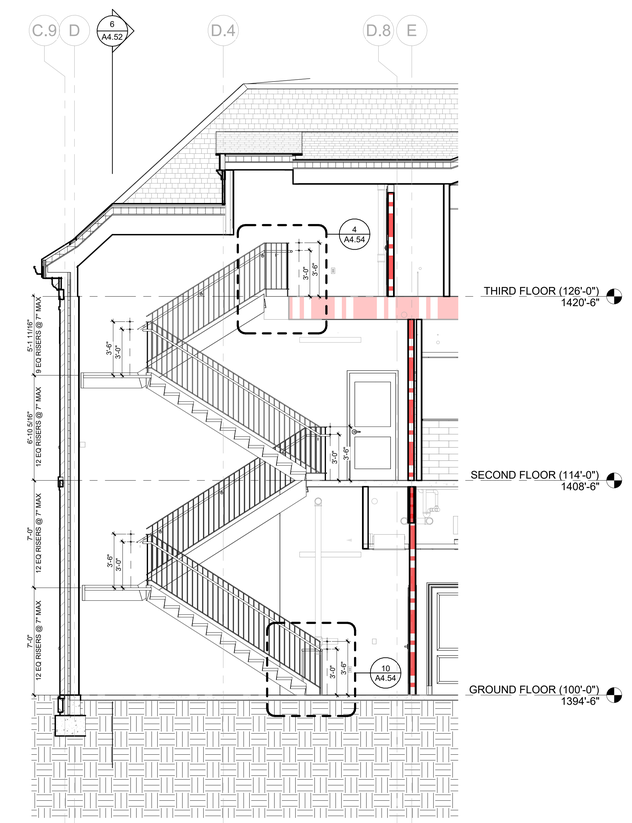
2 STAIR A PLAN - THIRD FLOOR
1/4" = 1'-0"



6 STAIR A SECTION E/W
1/4" = 1'-0"



4 STAIR A SECTION N/S 2
1/4" = 1'-0"



1 STAIR A SECTION N/S
1/4" = 1'-0"

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Job No. UAFAPH-21.01

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STAIR A PLANS AND SECTIONS

Sheet No.

A4.52

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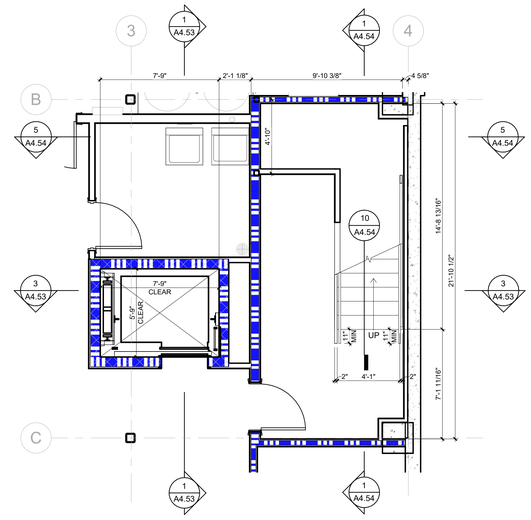
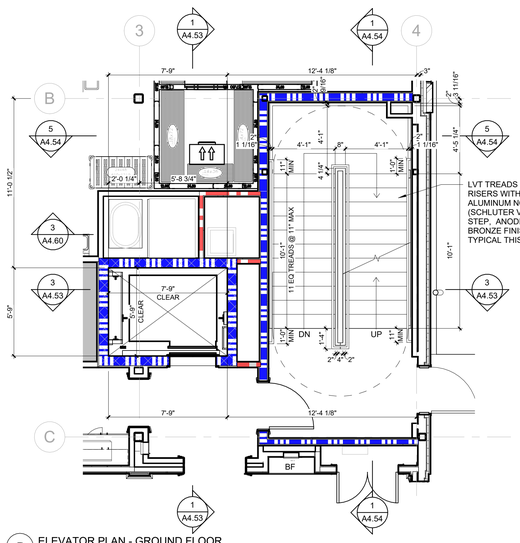
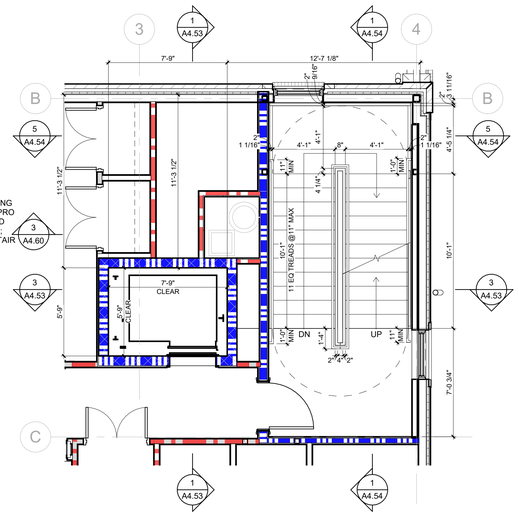


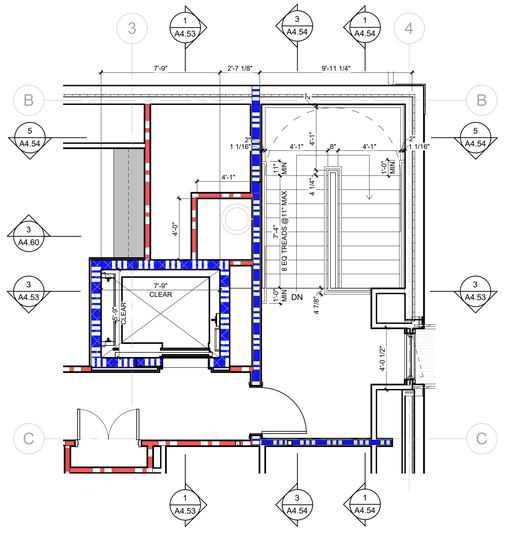
10 ELEVATOR PLAN - LOWER LEVEL
1/4" = 1'-0"



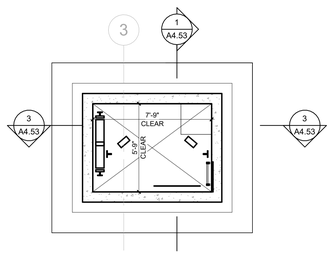
7 ELEVATOR PLAN - GROUND FLOOR
1/4" = 1'-0"



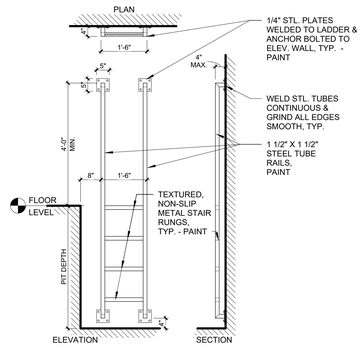
4 ELEVATOR PLAN - SECOND FLOOR
1/4" = 1'-0"



2 ELEVATOR PLAN - THIRD FLOOR
1/4" = 1'-0"

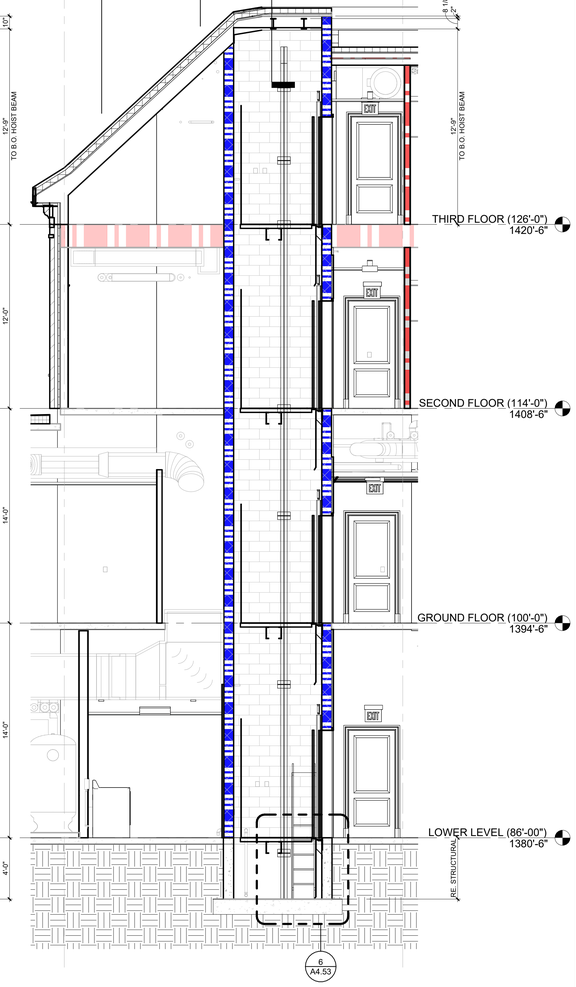


9 ELEVATOR PLAN - HOISTWAY PIT
1/4" = 1'-0"

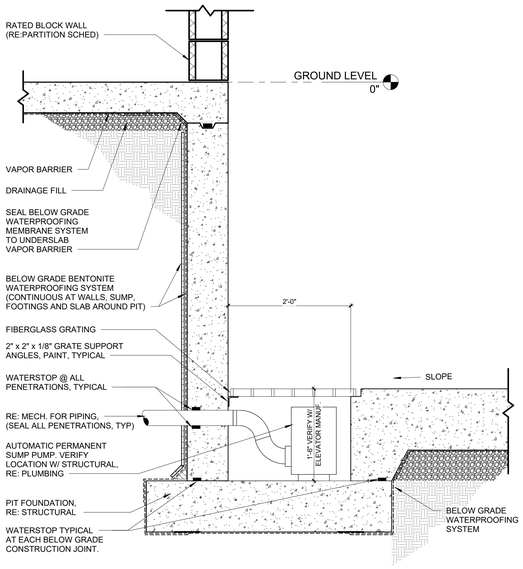


6 ELEVATOR PIT LADDER
1/2" = 1'-0"

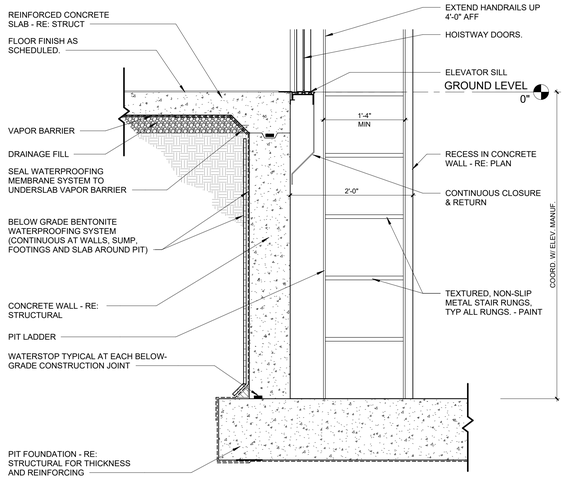
3 ELEVATOR SECTION E/W
1/4" = 1'-0"



1 ELEVATOR SECTION N/S
1/4" = 1'-0"



8 ELEVATOR PIT
1" = 1'-0"



5 ELEVATOR LADDER AND SILL DETAIL
1" = 1'-0"

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STAIR B & ELEVATOR PLANS

Sheet No.
A4.53

Project Name
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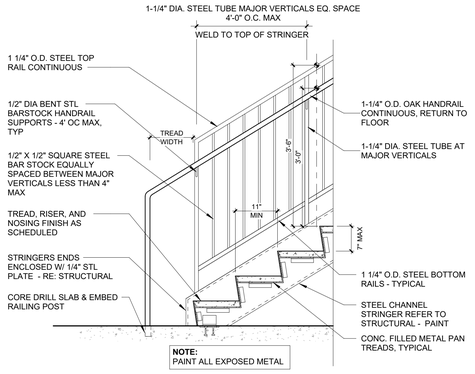
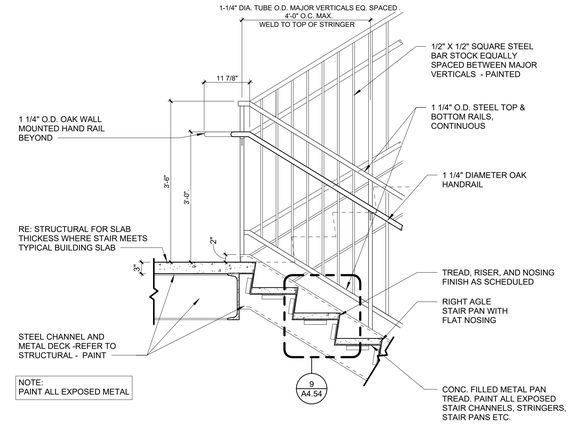
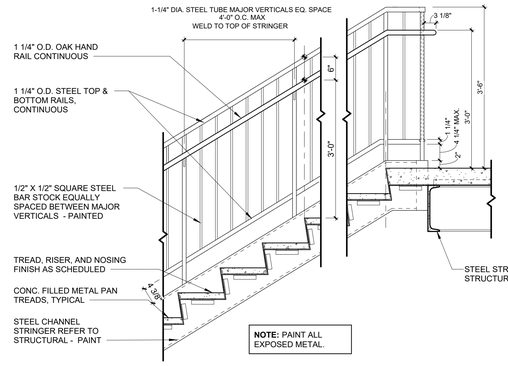


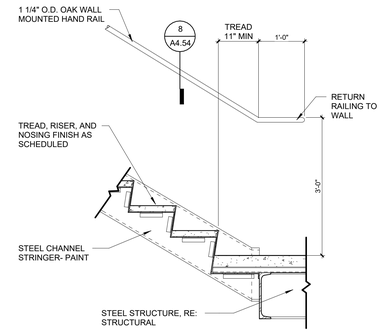
10 EGRESS STAIR - BOTTOM OF STAIR RUN
3/4" = 1'-0"



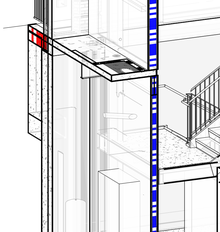
6 EGRESS STAIR - INTERMEDIATE LANDING SECTION
3/4" = 1'-0"



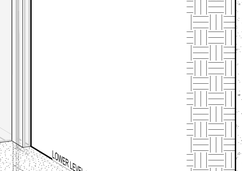
4 EGRESS STAIR - TOP LANDING/ GUARDRAIL SECTION
3/4" = 1'-0"



2 EGRESS STAIR - WALL MOUNTED HANDRAIL
3/4" = 1'-0"



9 EGRESS STAIR - NOSING DETAIL
1 1/2" = 1'-0"



8 HANDRAIL AT WALL
3" = 1'-0"

7 3D VIEW - STAIR B

5 STAIR B SECTION - E/W
1/4" = 1'-0"

3 STAIR B SECTION - N/S1
1/4" = 1'-0"

1 STAIR B SECTION - N/S
1/4" = 1'-0"

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STAIR B AND ELEVATOR SECTIONS

Sheet No.
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Project Norms
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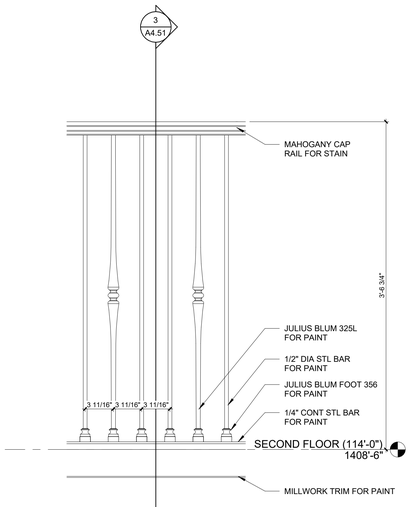
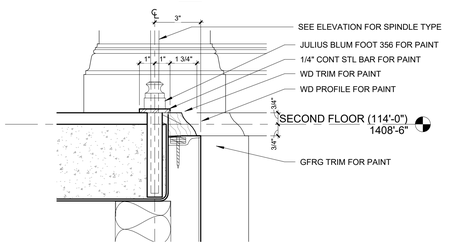
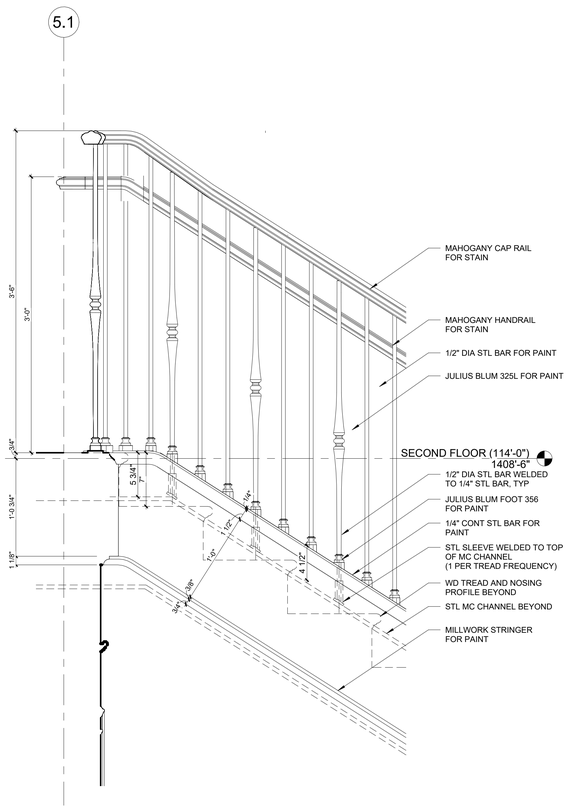


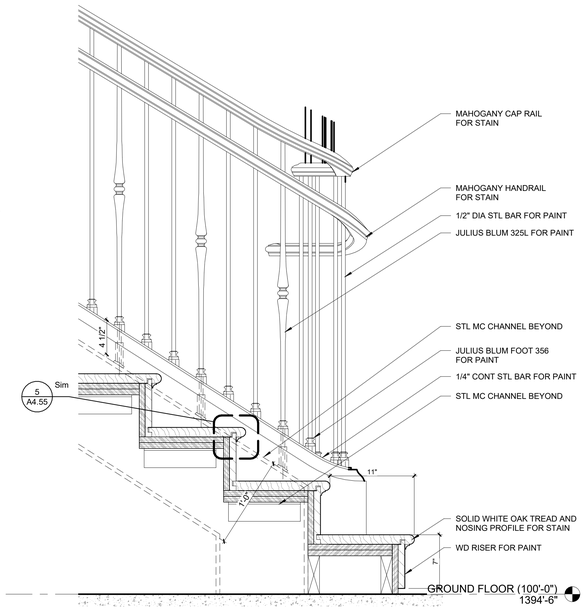
8 ELEVATION - TYPICAL BALCONY GUARDRAIL
1 1/2" = 1'-0"



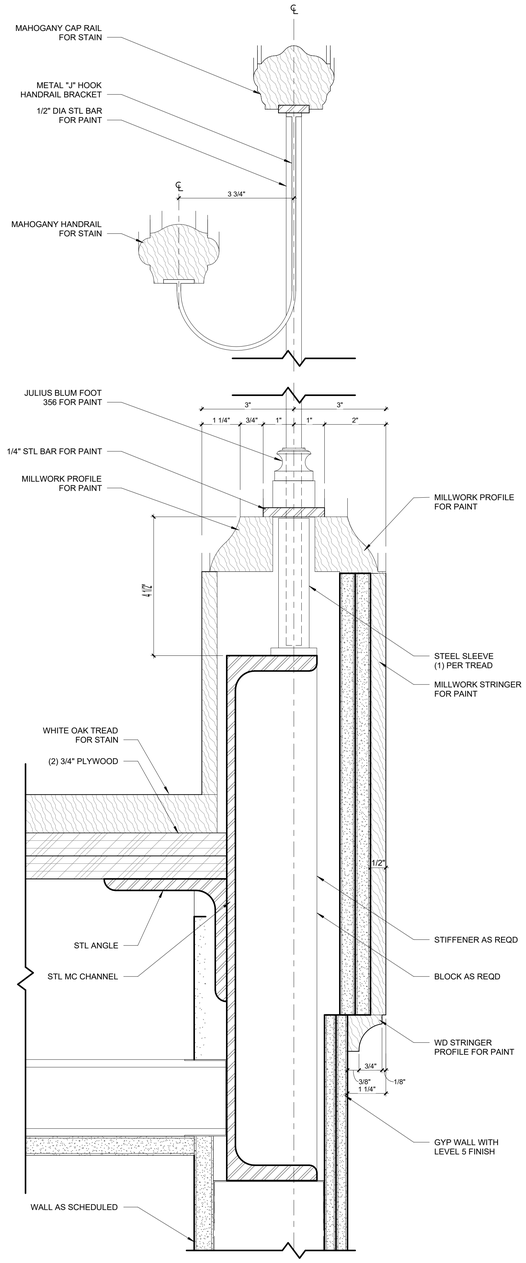
7 SECTION DETAIL - BALCONY GUARDRAIL E/W
3" = 1'-0"



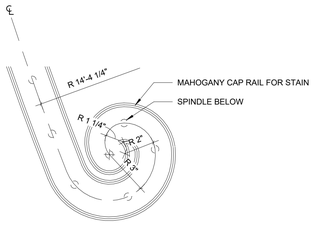
4 ELEVATION DETAIL - STAIR HALL STAIR AT SECOND FLOOR
1 1/2" = 1'-0"



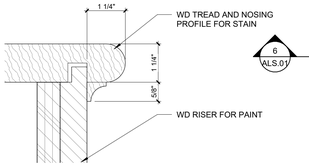
3 SECTION DETAIL - STAIR HALL STAIR
1 1/2" = 1'-0"



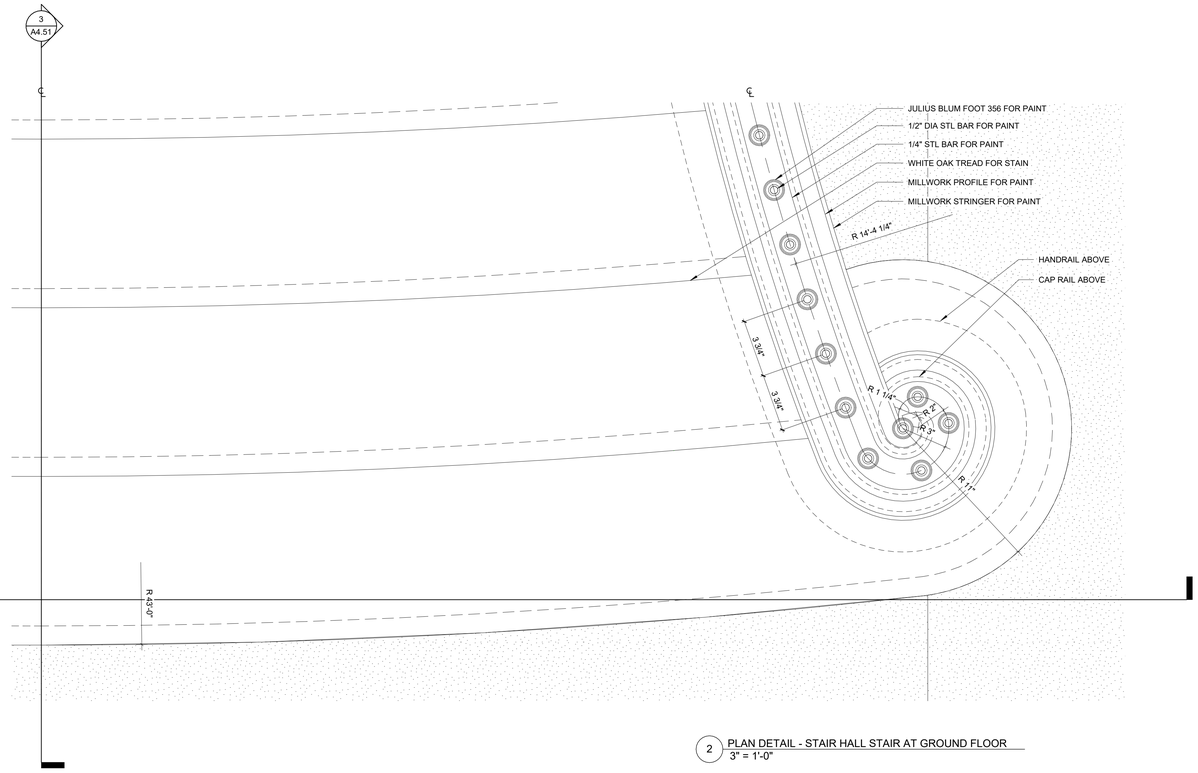
1 SECTION DETAIL - STAIR HALL GUARDRAIL
6" = 1'-0"



6 PLAN DETAIL - CAP RAIL VOLUTE
3" = 1'-0"



5 SECTION DETAIL - STAIR HALL STAIR NOSING
6" = 1'-0"



2 PLAN DETAIL - STAIR HALL STAIR AT GROUND FLOOR
3" = 1'-0"

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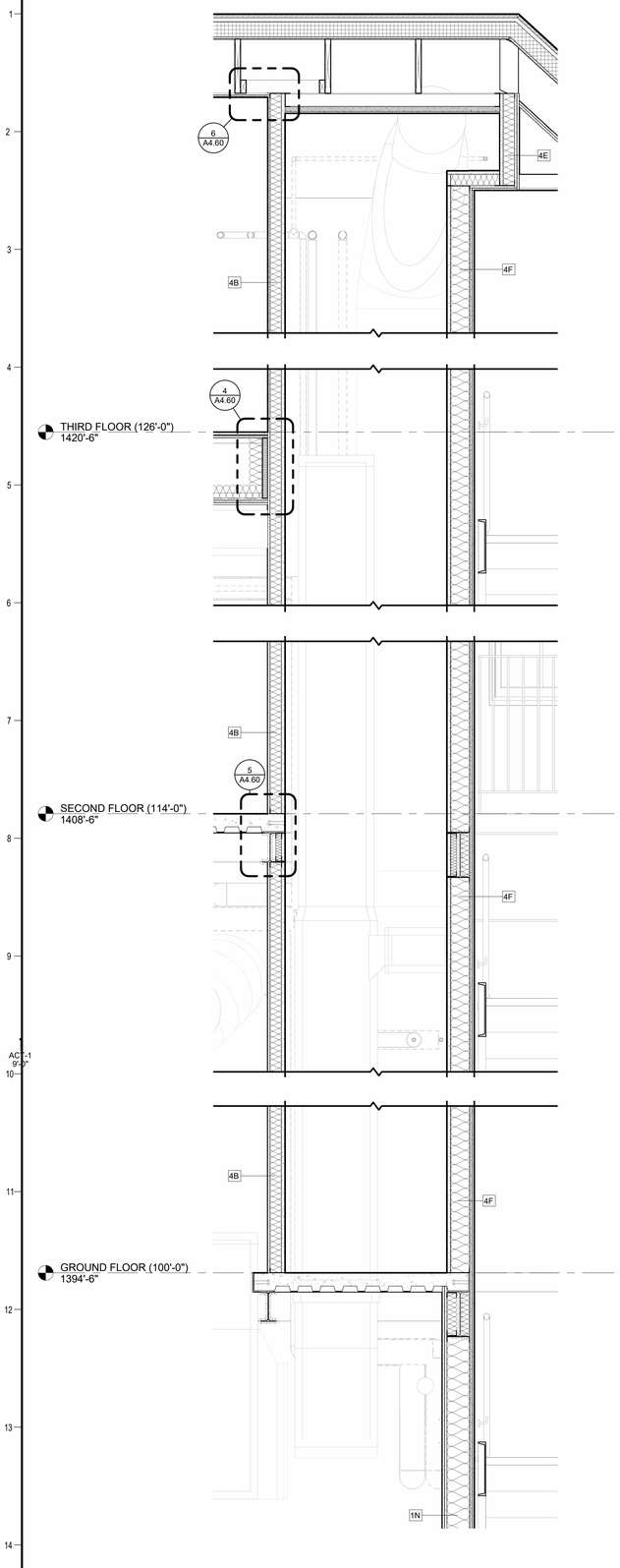
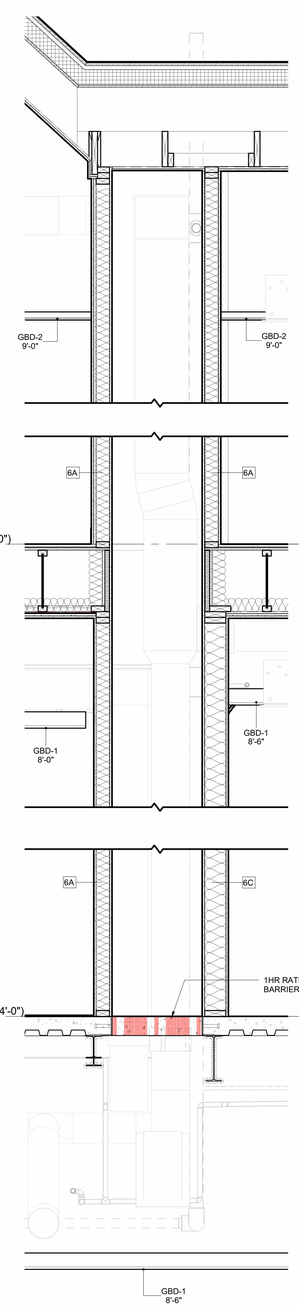
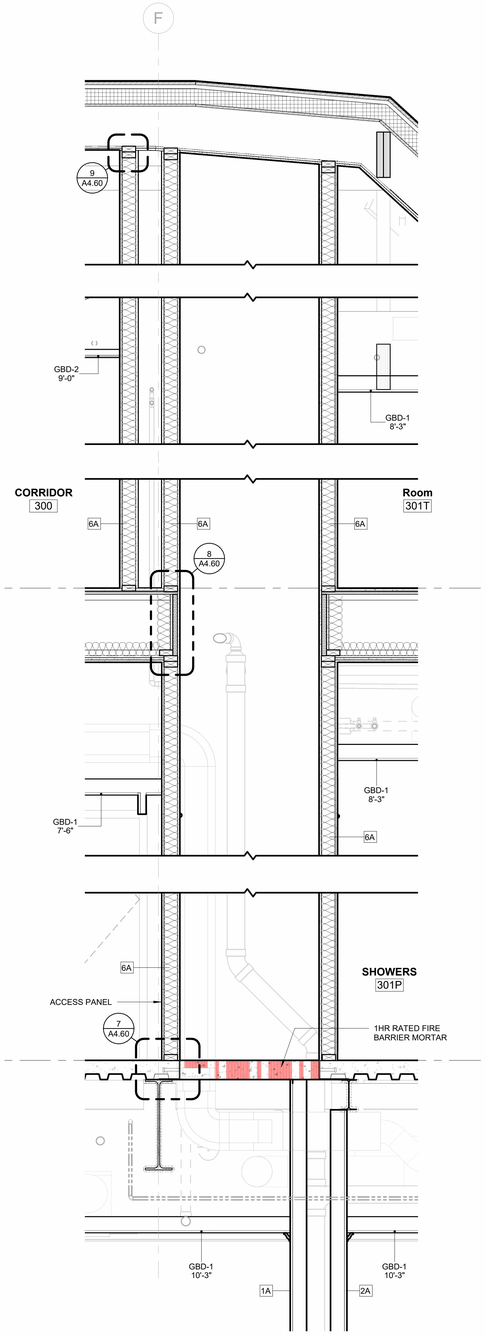
Job No. UAFAPH-21.01
Date 12.18.2025
Title STAIR DETAILS
Sheet No. **A4.55**



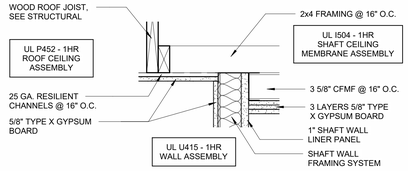
3 SHAFT @ ELEVATOR
3/4" = 1'-0"



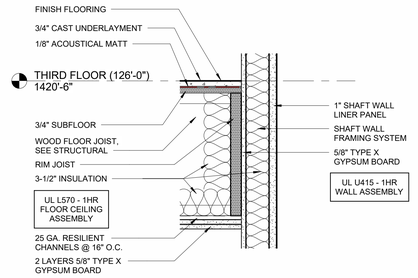
2 SHAFT @ GROUP RESTROOM 215
3/4" = 1'-0"



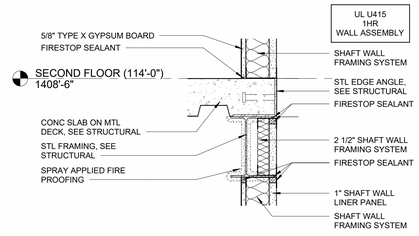
1 SHAFT @ GROUP RESTROOM 216
3/4" = 1'-0"



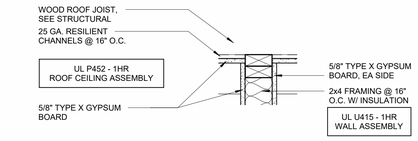
6 DETAIL - SHAFT WALL ASSEMBLY @ RATED ROOF
1 1/2" = 1'-0"



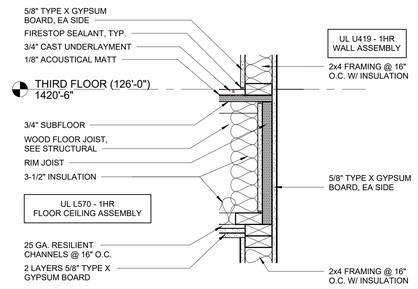
4 DETAIL - SHAFT WALL ASSEMBLY @ WOOD FRAMED FLOOR
1 1/2" = 1'-0"



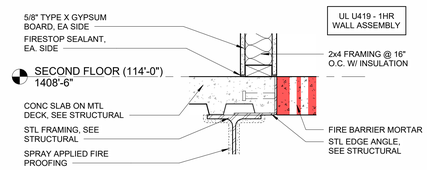
5 DETAIL - SHAFT WALL ASSEMBLY @ ELEVATED CONC SLAB
1 1/2" = 1'-0"



9 DETAIL - WOOD FRAMED SHAFT @ RATED ROOF
1 1/2" = 1'-0"



8 DETAIL - WOOD FRAMED SHAFT @ WOOD FRAMED FLOOR
1 1/2" = 1'-0"



7 DETAIL - WOOD FRAMED SHAFT @ ELEVATED CONC, SLAB
1 1/2" = 1'-0"

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SHAFT SECTIONS

Sheet No.
A4.60

Project Name
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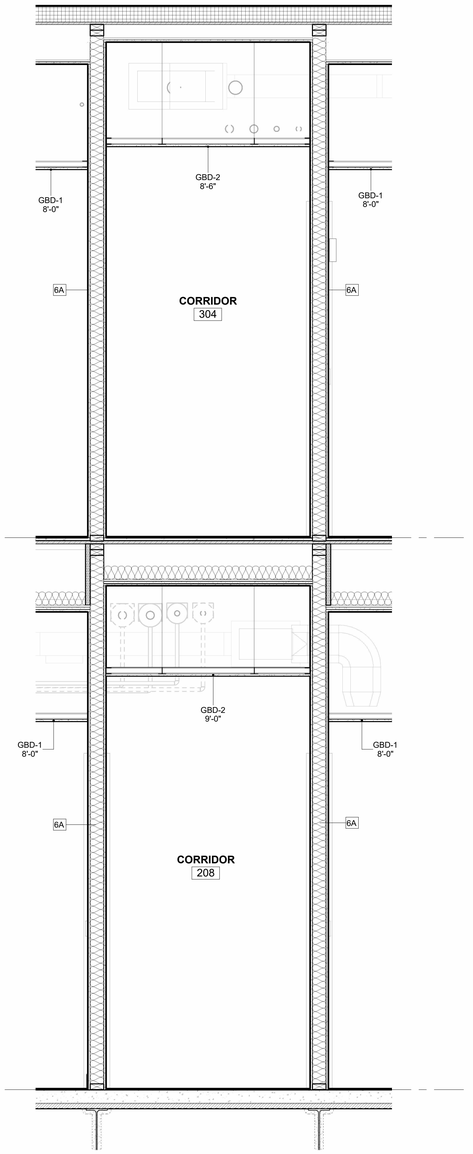
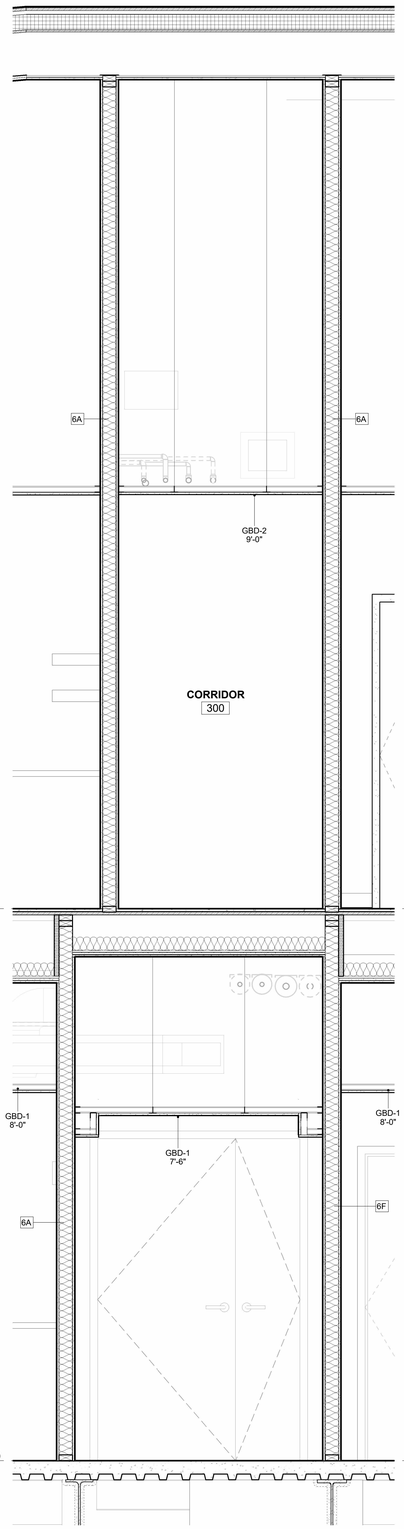
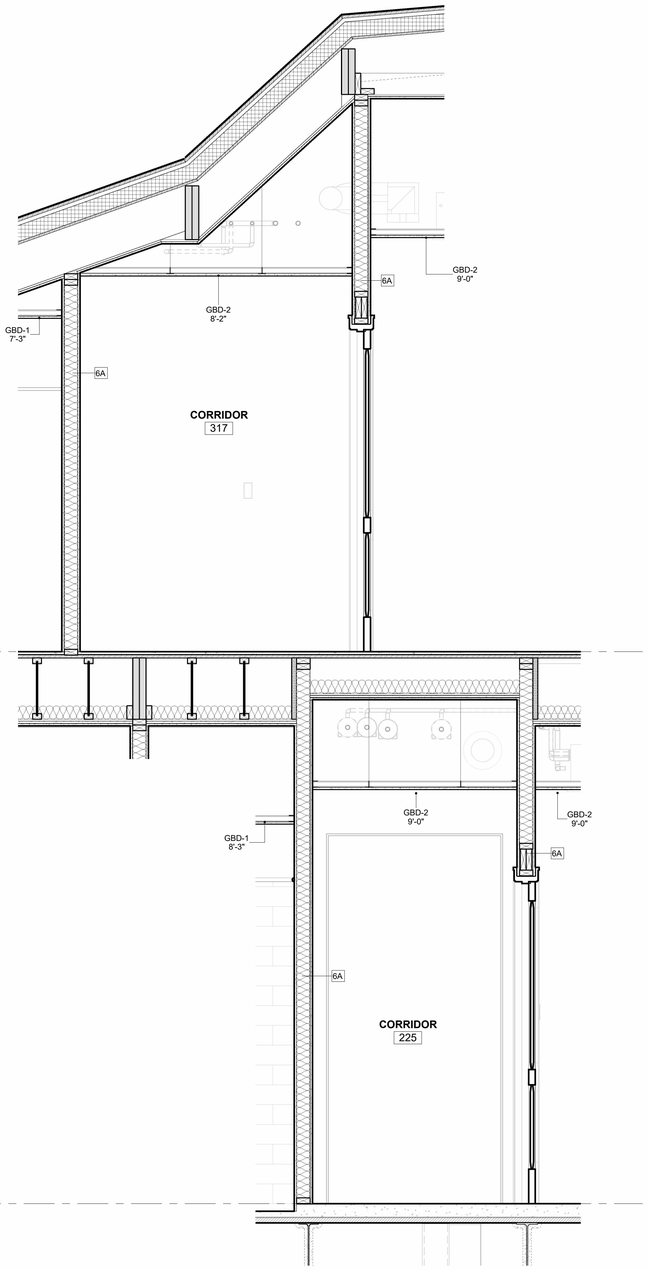
GENERAL NOTE:
SEE A 6.02 FOR MORE INFORMATION RELATED TO RATED CORRIDORS.



3 CORRIDOR SECTION - WEST WING
3/4" = 1'-0"



2 CORRIDOR SECTION - SOUTH MANOR
3/4" = 1'-0"



1 CORRIDOR SECTION - EAST WING
3/4" = 1'-0"

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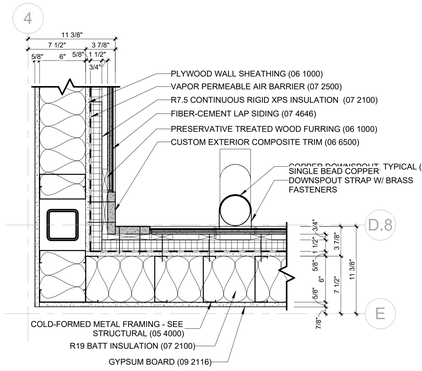
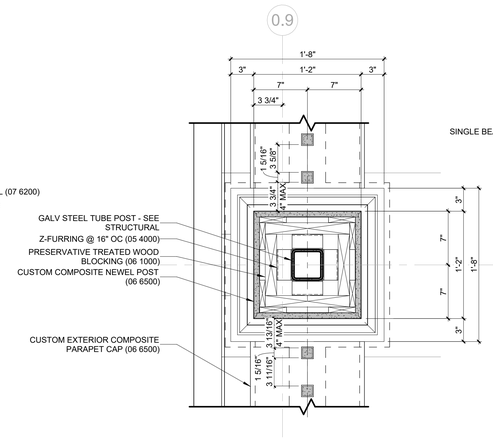
RATED CORRIDOR SECTIONS

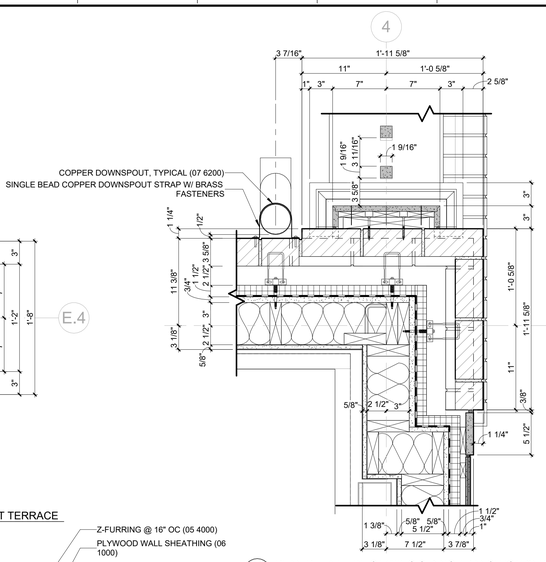
Sheet No.
A4.61



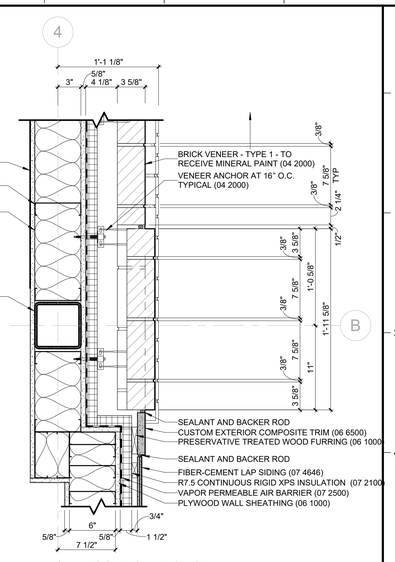
9 PLAN DETAIL - COURTYARD INSIDE CORNER
1 1/2" = 1'-0"



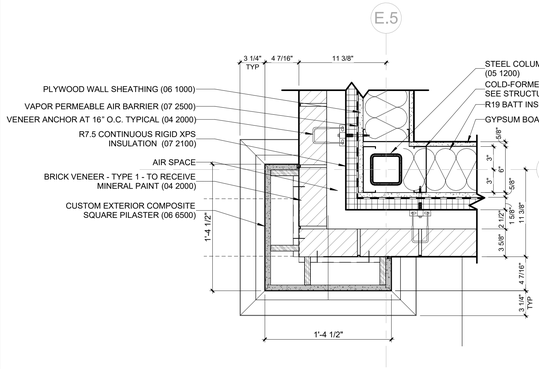
6 PLAN DETAIL - TYP BALUSTRADE POST - WEST TERRACE
1 1/2" = 1'-0"



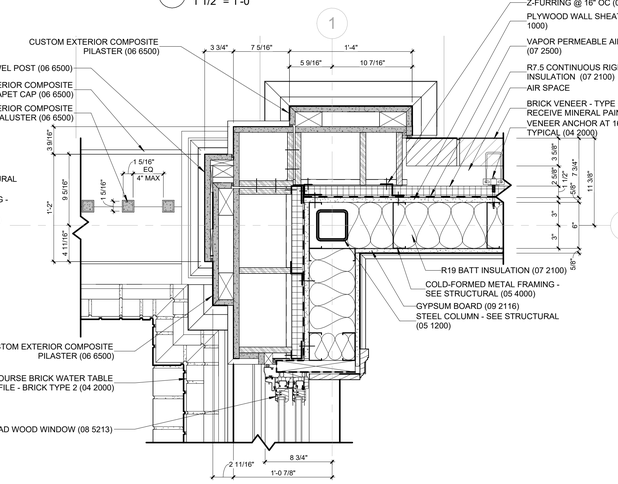
4 PLAN DETAIL - WEST WING SIDING TRANSITION 2ND FL
1 1/2" = 1'-0"



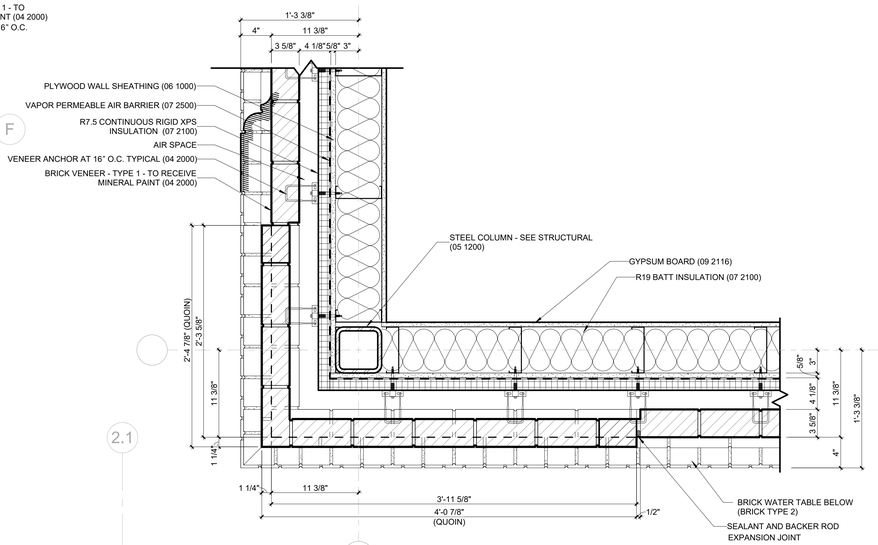
3 PLAN DETAIL - WEST WING SIDING TRANSITION
1 1/2" = 1'-0"



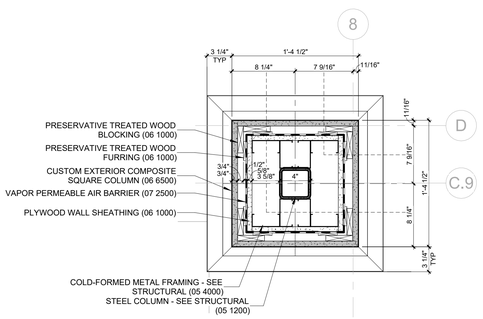
8 PLAN DETAIL - 3/4 ENGAGED SQUARE COLUMN
1 1/2" = 1'-0"



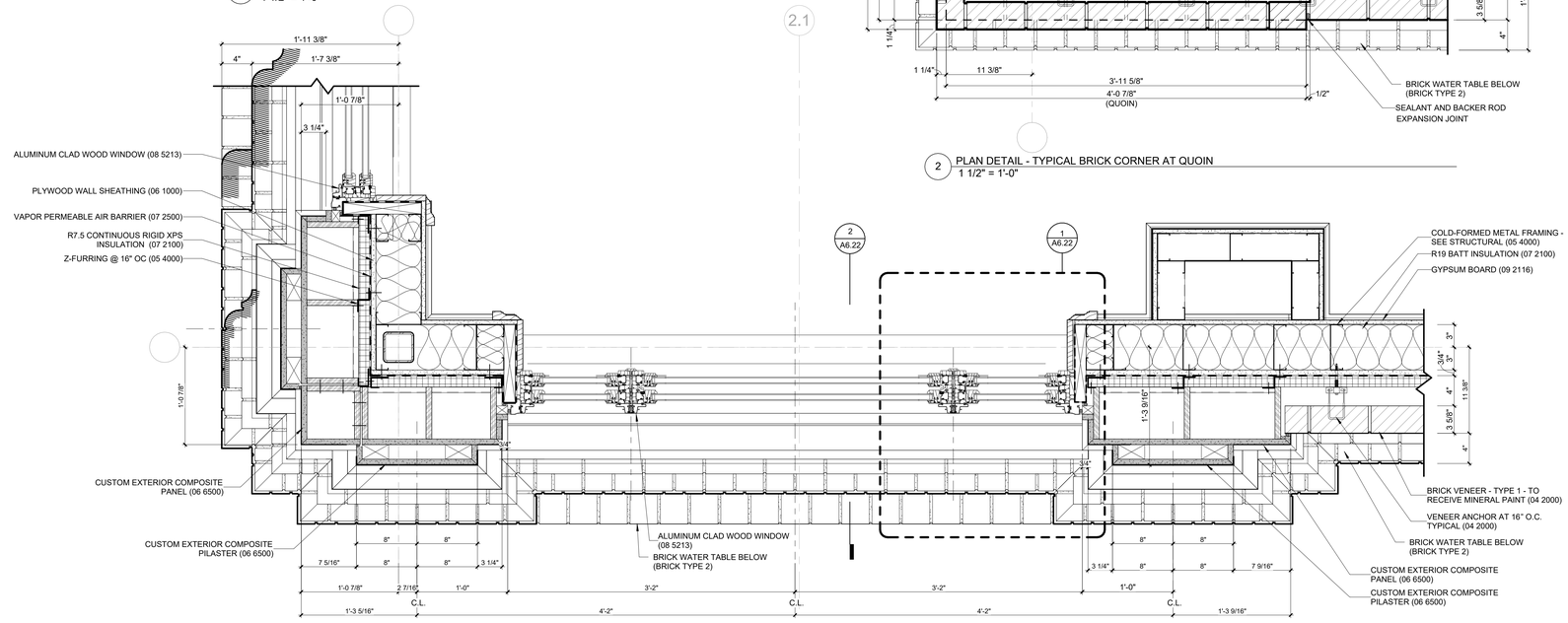
5 PLAN DETAIL
1 1/2" = 1'-0"



2 PLAN DETAIL - TYPICAL BRICK CORNER AT QUOIN
1 1/2" = 1'-0"



7 PLAN DETAIL - SQUARE COLUMN - HD. S. ENTRY
1 1/2" = 1'-0"



1 PLAN DETAIL - WEST END
1 1/2" = 1'-0"

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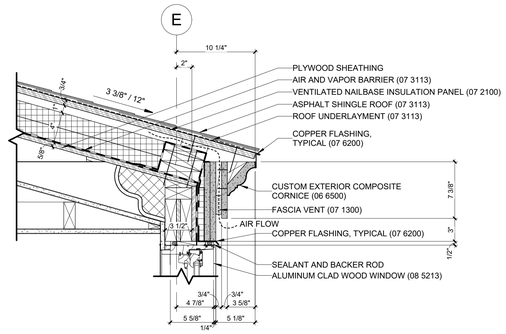
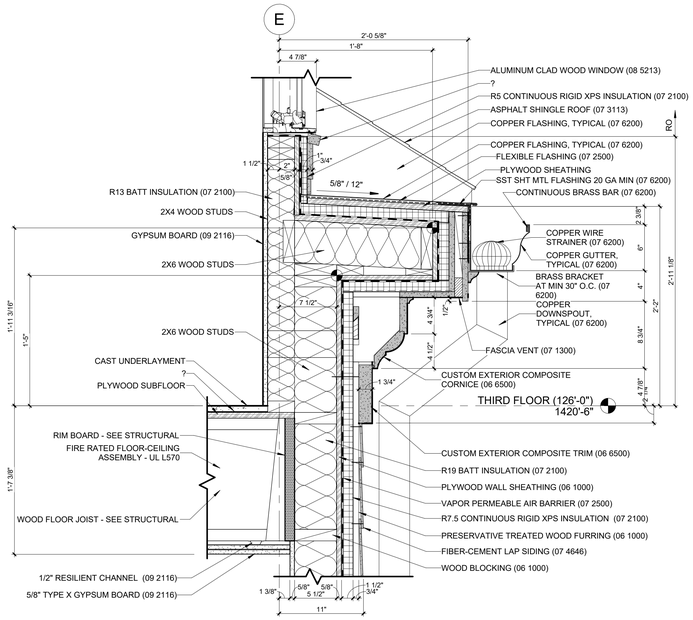
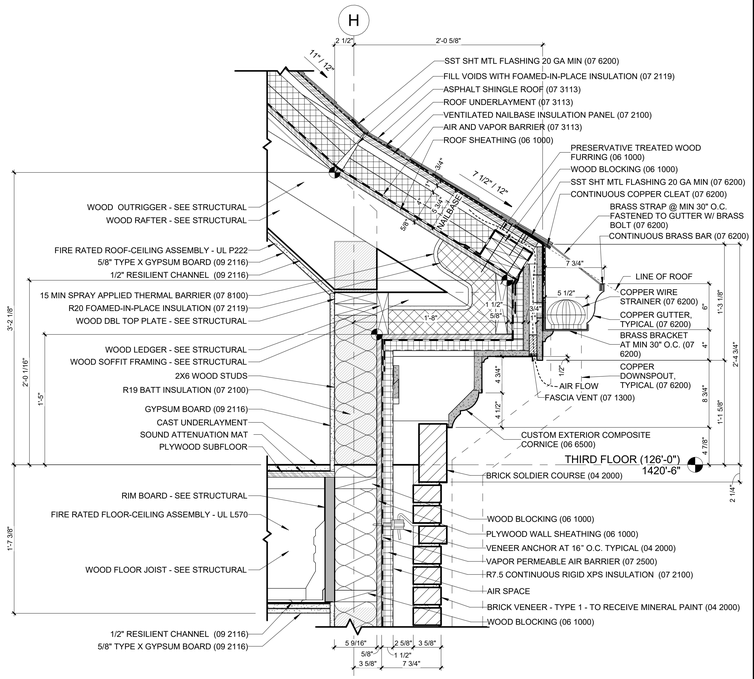


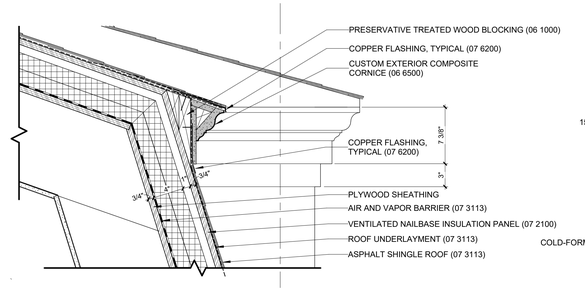
9 SECTION DETAIL - TYPICAL COURTYARD DORMER EAVE
1 1/2" = 1'-0"



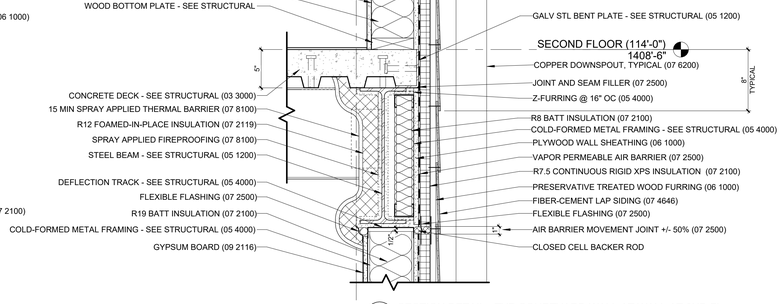
6 SECTION DETAIL - TYPICAL COURTYARD EAVE AT DORMER
1 1/2" = 1'-0"



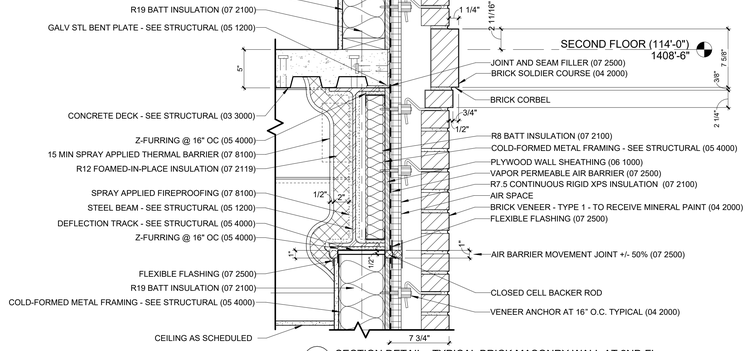
3 SECTION DETAIL - TYPICAL BRICK MASONRY WALL AT EAVE
1 1/2" = 1'-0"



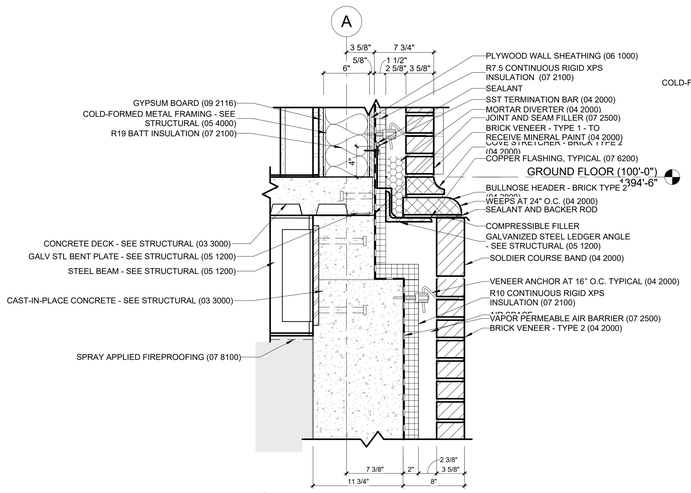
8 SECTION DETAIL - COURTYARD ROOF SLOPE TRANSITION
1 1/2" = 1'-0"



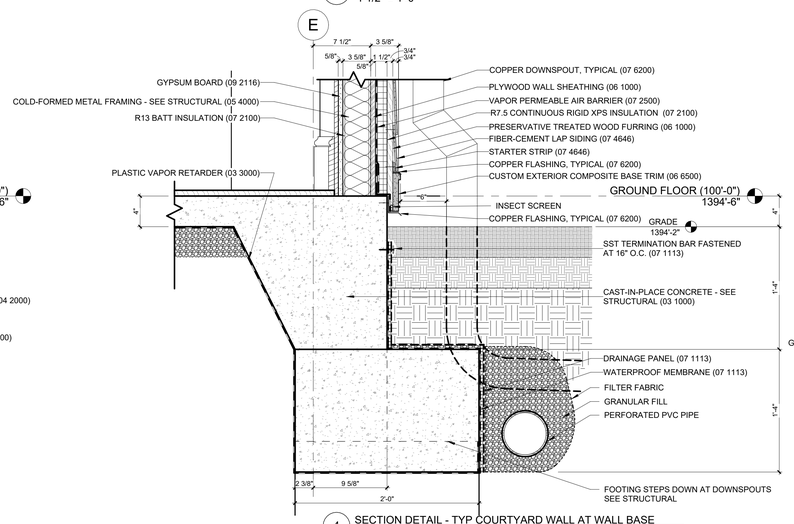
5 SECTION DETAIL - TYP COURTYARD WALL AT WALL AT 2ND FL
1 1/2" = 1'-0"



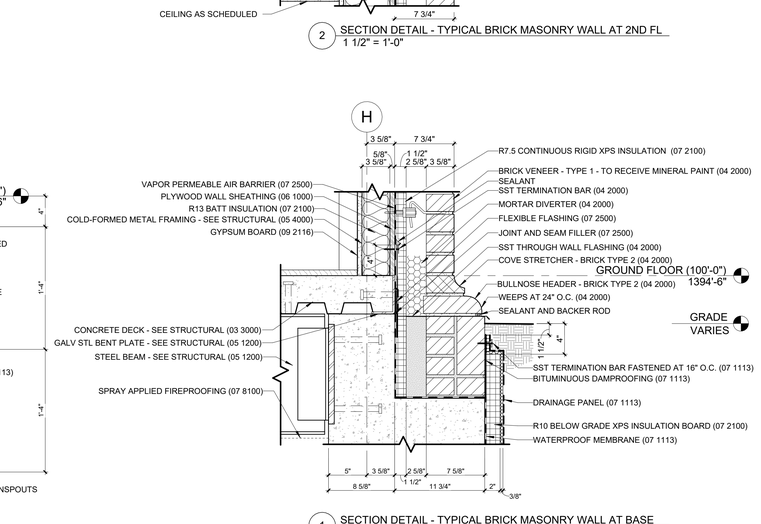
2 SECTION DETAIL - TYPICAL BRICK MASONRY WALL AT 2ND FL
1 1/2" = 1'-0"



7 WALL SECTION - WEST WING NORTH WALL AT
1 1/2" = 1'-0"



4 SECTION DETAIL - TYP COURTYARD WALL AT WALL BASE
1 1/2" = 1'-0"



1 SECTION DETAIL - TYPICAL BRICK MASONRY WALL AT BASE
1 1/2" = 1'-0"

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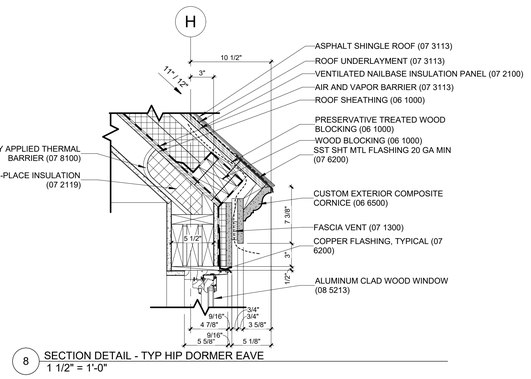
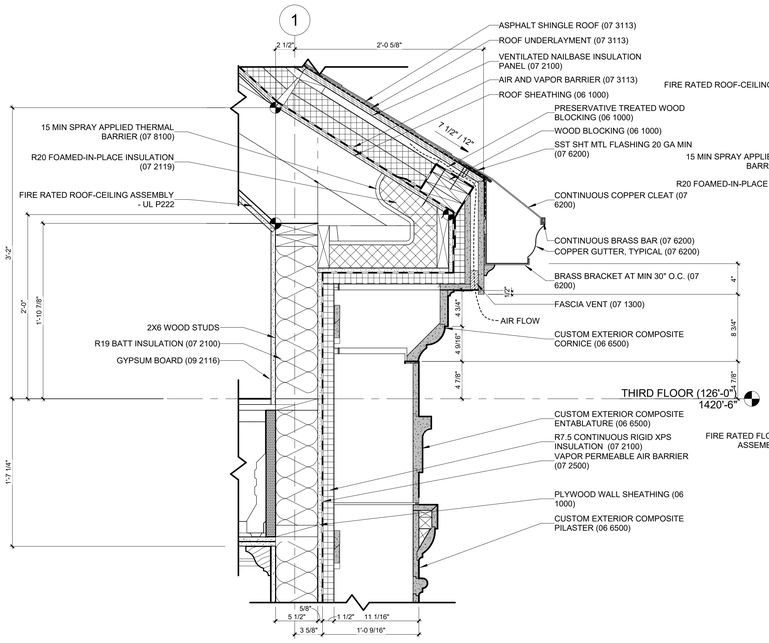
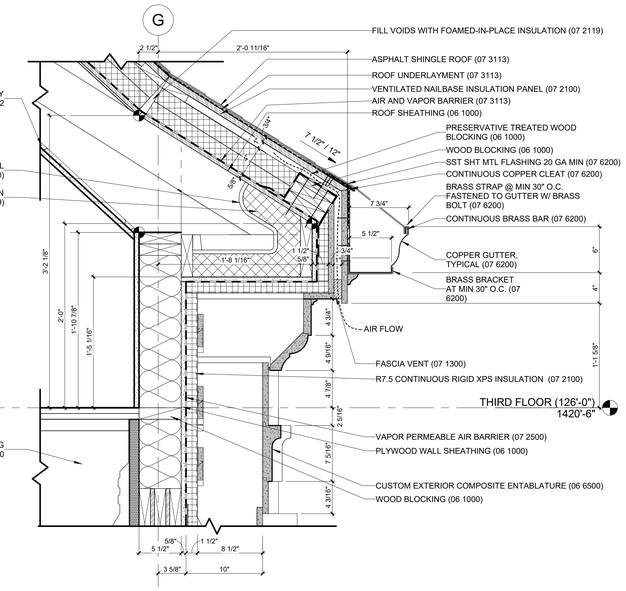


8 SECTION DETAIL - TYP HIP DORMER EAVE
1 1/2" = 1'-0"



6 SECTION DETAIL - END BAY PILASTER AT EAVE
1 1/2" = 1'-0"



3 SECTION DETAIL - END BAY WALL AT EAVE
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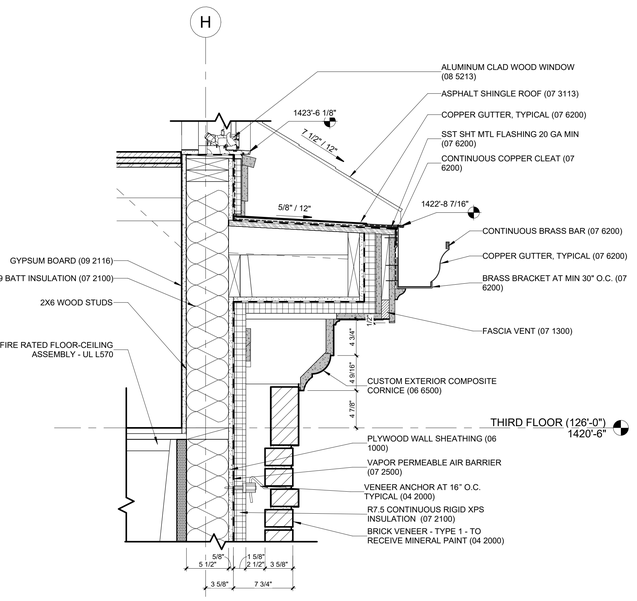

7 SECTION DETAIL - TYPICAL EAVE AT HIP DORMER
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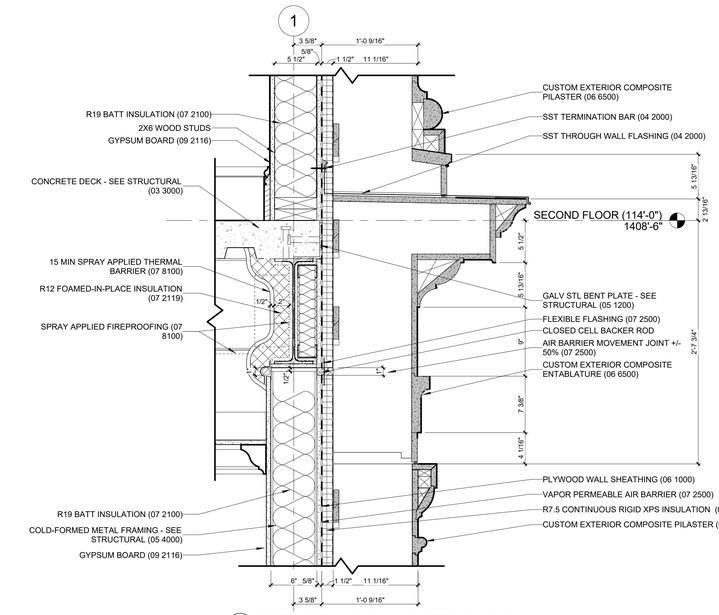
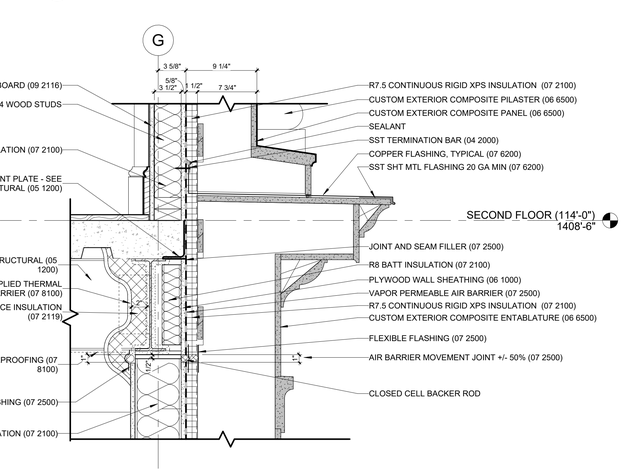


5 SECTION DETAIL - END BAY PILASTER AT 2ND FL
1 1/2" = 1'-0"



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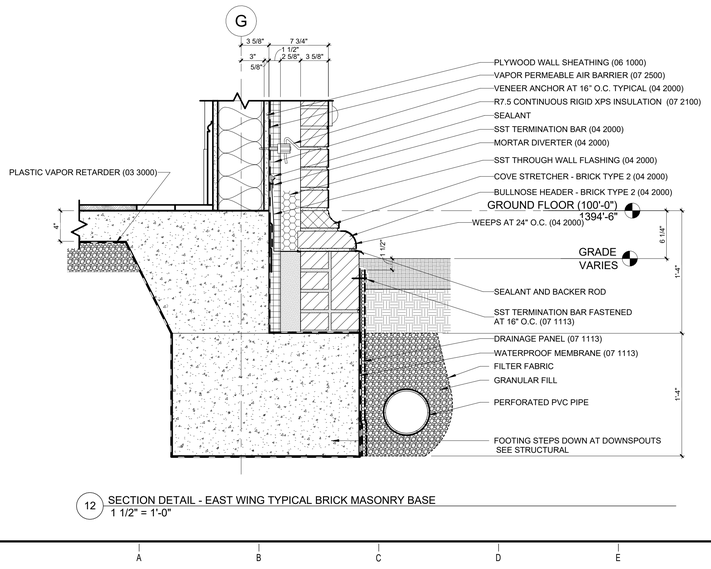

12 SECTION DETAIL - EAST WING TYPICAL BRICK MASONRY BASE
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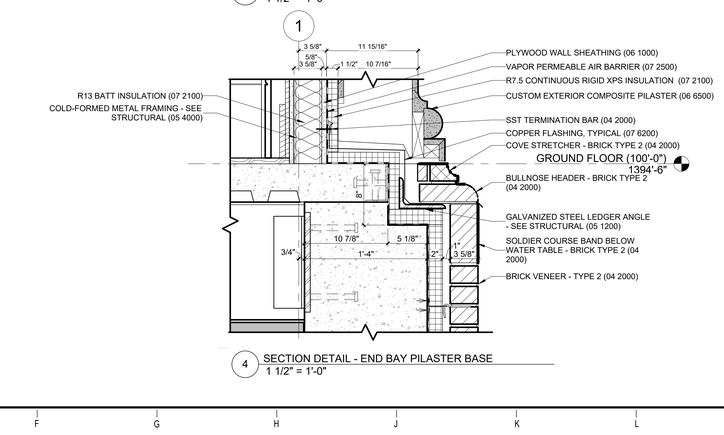
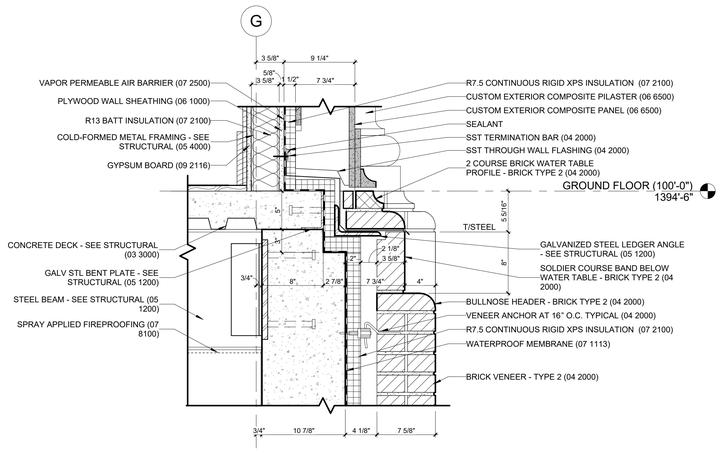


4 SECTION DETAIL - END BAY PILASTER BASE
1 1/2" = 1'-0"



1 SECTION DETAIL - END BAY WALL BASE
1 1/2" = 1'-0"

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12.18.2025
Title

EXTERIOR DETAILS
Sheet No.
A5.11

Project Name
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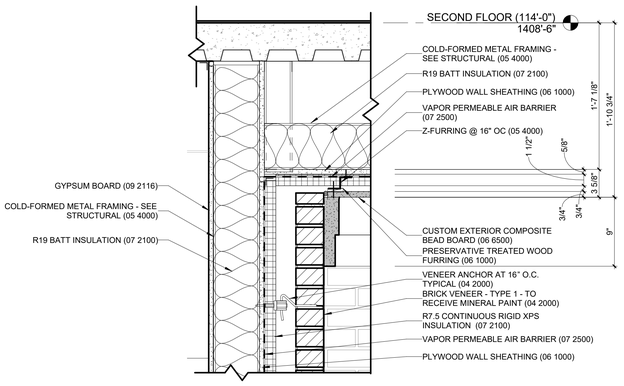
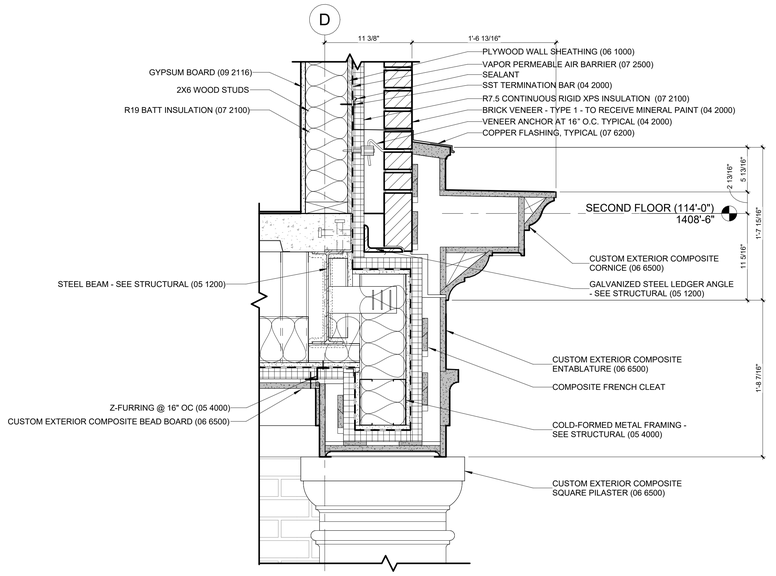


9 SECTION DETAIL - HD SUITE ENTRY CEILING TRANSITION
1 1/2" = 1'-0"



6 SECTION DETAIL - HD SUITE ENTRY ENTABLATURE
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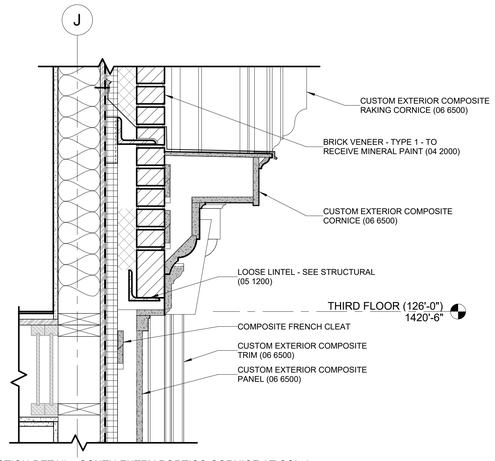
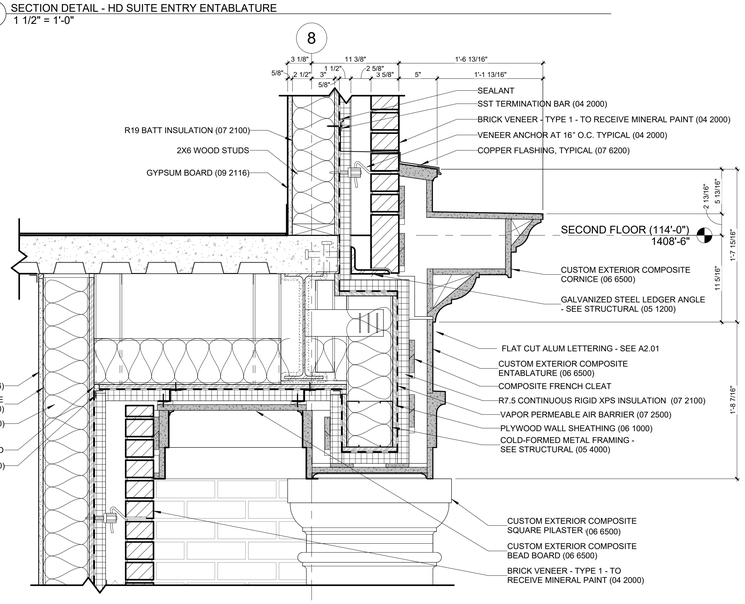
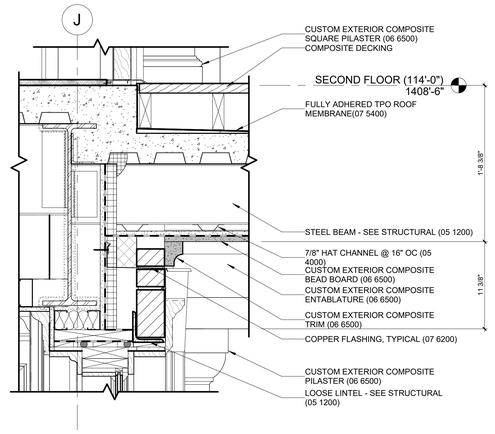


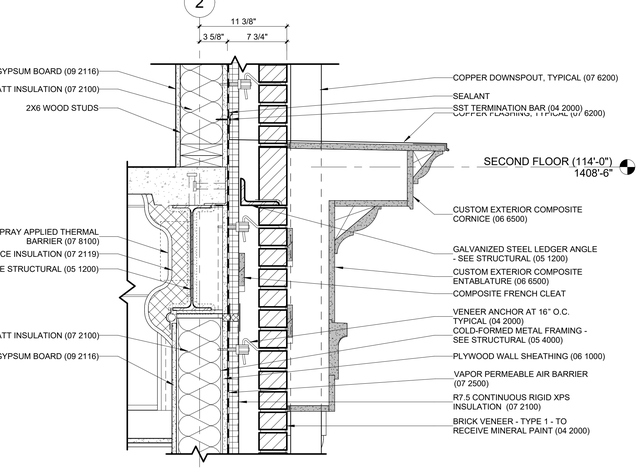
3 SECTION DETAIL - SOUTH ENTRY PORTICO CORNICE AT COL J
1 1/2" = 1'-0"



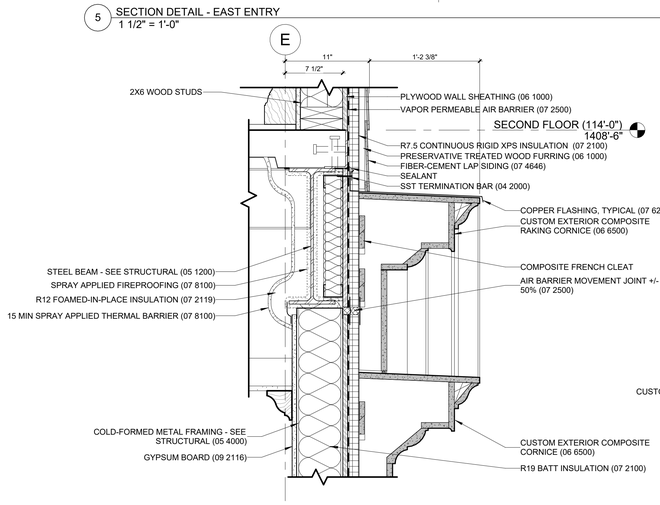
5 SECTION DETAIL - EAST ENTRY
1 1/2" = 1'-0"



2 SECTION DETAIL - SOUTH ENTRY PORTICO AT COL J
1 1/2" = 1'-0"



7 SECTION DETAIL - WEST WING TERRACE ENTABLATURE AT DOWNSPOUT
1 1/2" = 1'-0"



4 SECTION DETAIL - NORTH ENTRY PEDIMENT
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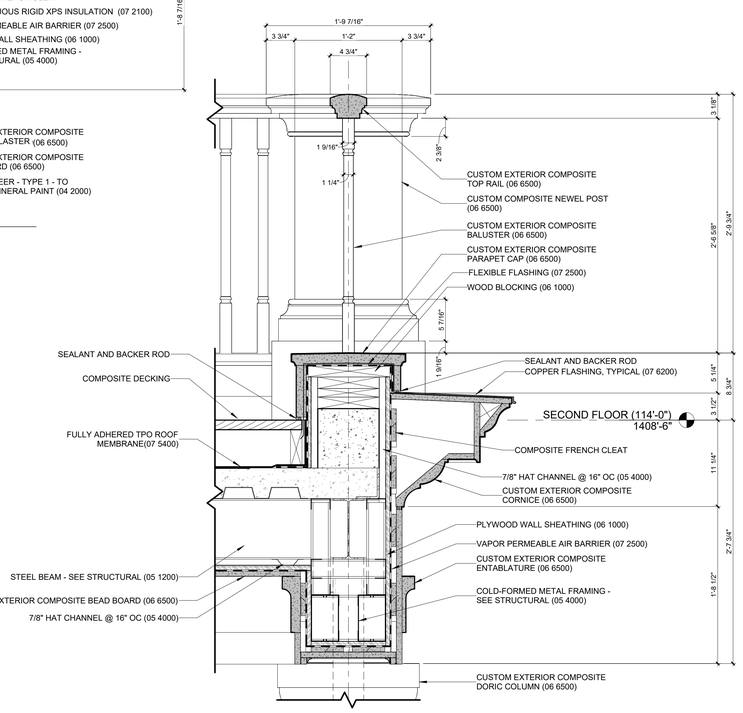

1 SECTION DETAIL - SOUTH ENTRY PORTICO AT BALUSTRADE
1 1/2" = 1'-0"

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NO. LL-220
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

EXTERIOR DETAILS
Sheet No.
A5.12

Project Name
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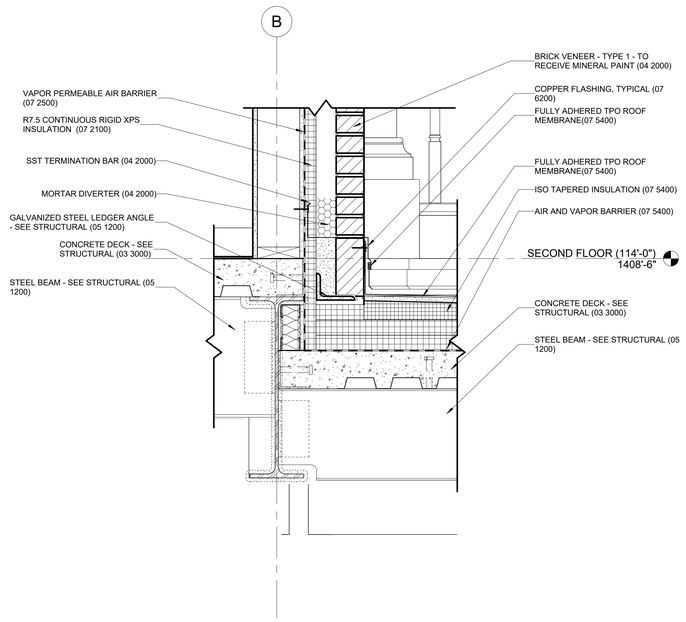
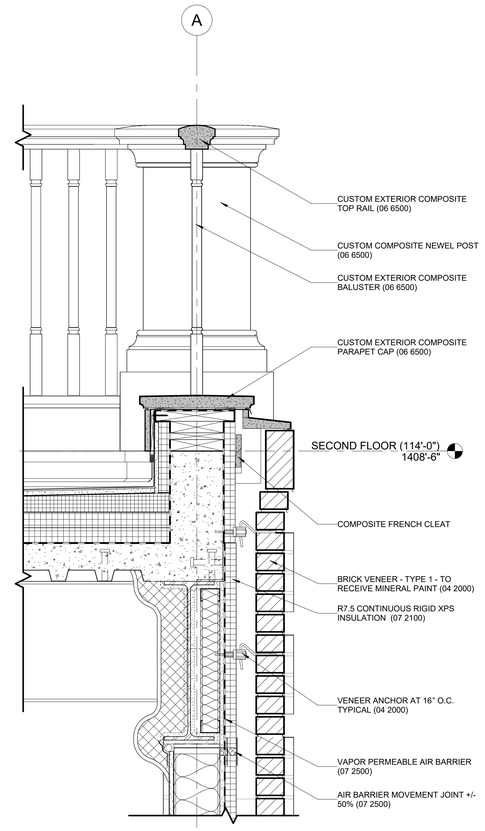
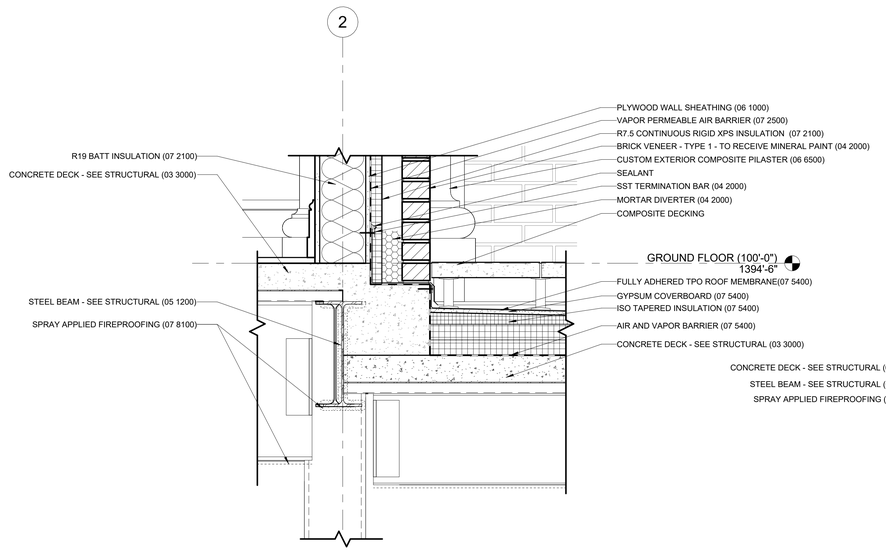


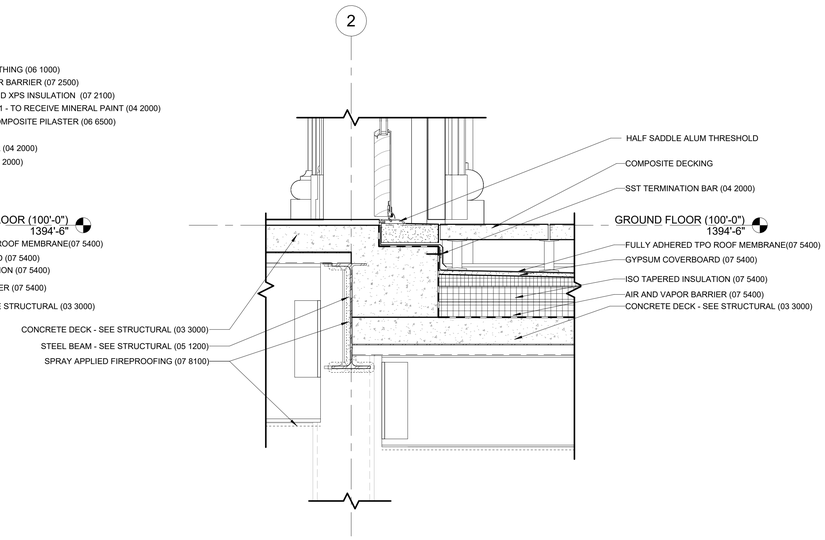
5 SECTION DETAIL - WEST WING 2ND FLOOR NORTH WALL
1 1/2" = 1'-0"



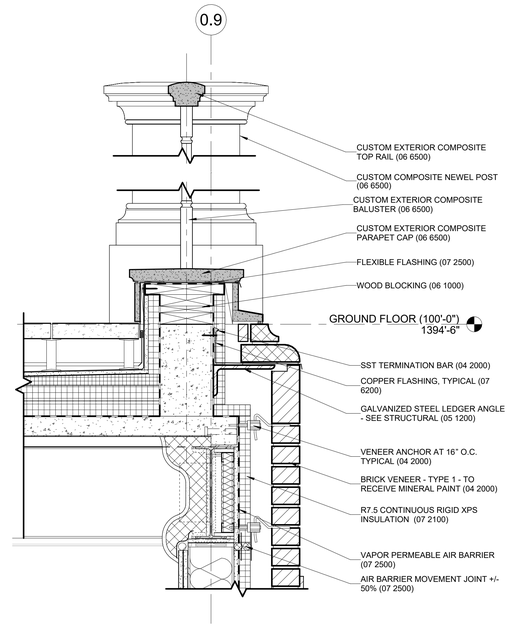
4 SECTION DETAIL - WEST WING 2ND FLOOR NORTH WALL BALUSTRADE
1 1/2" = 1'-0"



3 SECTION DETAIL - WEST WING TERRACE AT WALL
1 1/2" = 1'-0"



2 SECTION DETAIL - WEST WING TERRACE AT DOORS
1 1/2" = 1'-0"



1 SECTION DETAIL - WEST WING TERRACE BALUSTRADE
1 1/2" = 1'-0"

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Job No. UAFAPH-21.01

Date 12.18.2025

Title

EXTERIOR DETAILS

Sheet No.

A5.13

Project Name
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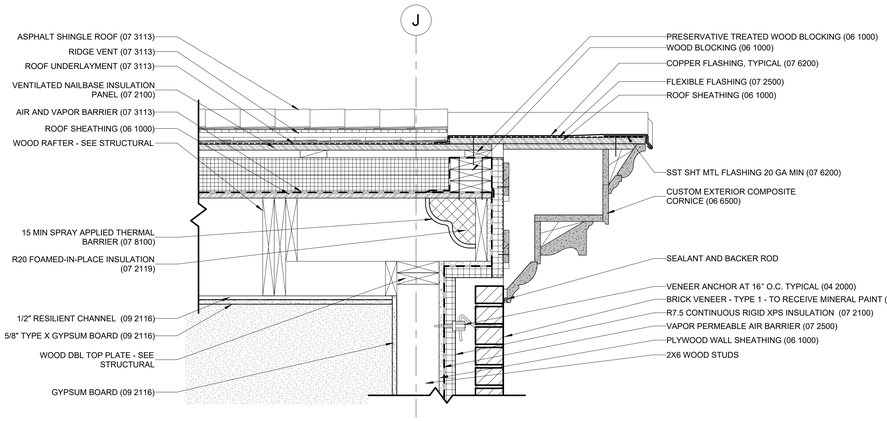
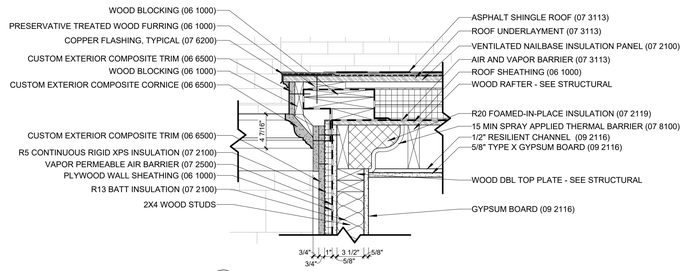
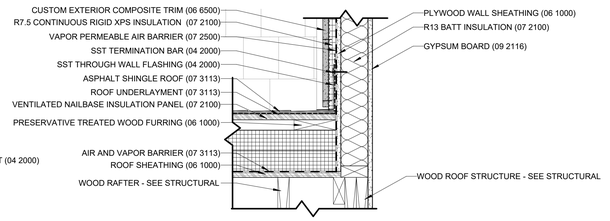


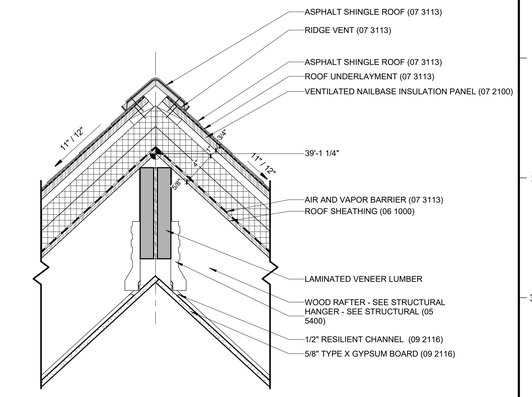
12 SECTION DETAIL - SOUTH PORTICO PEDIMENT
1 1/2" = 1'-0"



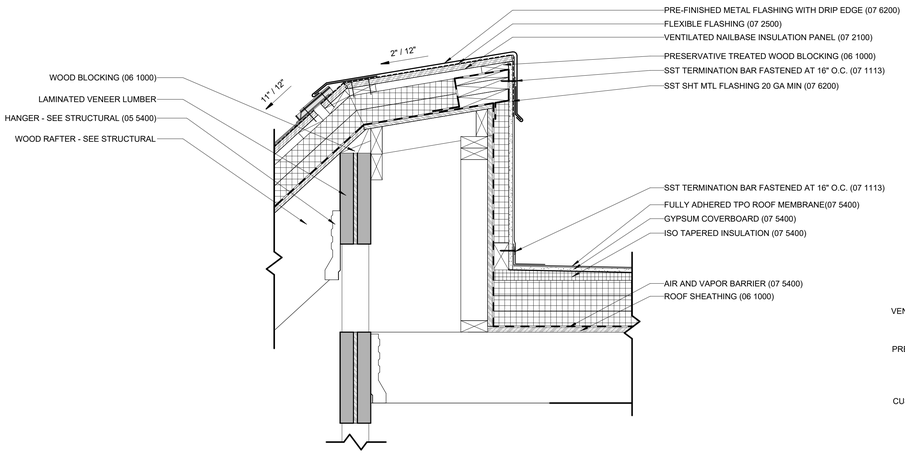
9 SECTION DETAIL - SHED DORMER SIDE EAVE
1 1/2" = 1'-0"



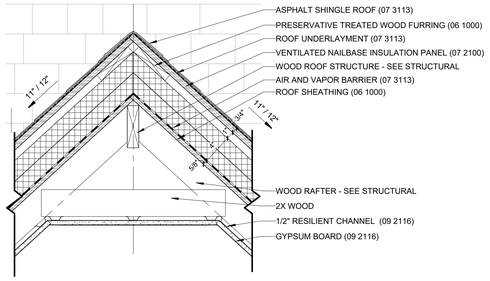
8 SECTION DETAIL - SHED DORMER SIDE BASE FLASHING
1 1/2" = 1'-0"



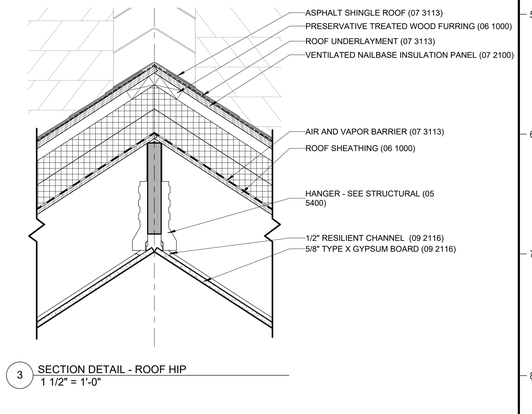
4 SECTION DETAIL - ROOF RIDGE
1 1/2" = 1'-0"



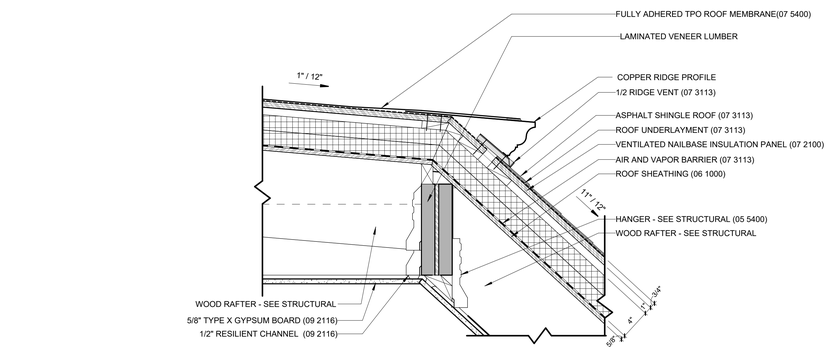
11 SECTION DETAIL - WEST ROOF WELL COPING
1 1/2" = 1'-0"



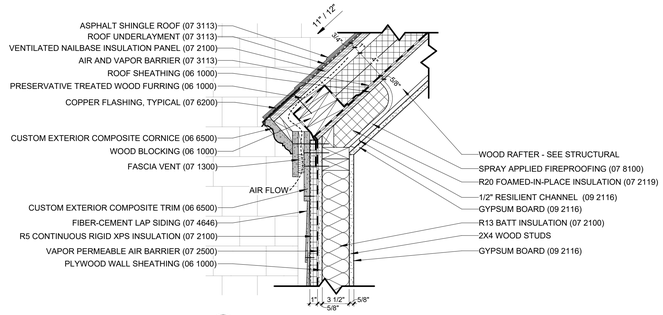
7 SECTION DETAIL - HIP DORMER RIDGE
1 1/2" = 1'-0"



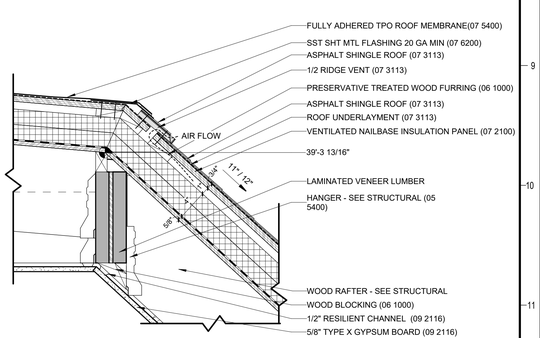
3 SECTION DETAIL - ROOF HIP
1 1/2" = 1'-0"



10 SECTION DETAIL - MAIN MANOR ROOF TRANSITION
1 1/2" = 1'-0"



6 SECTION DETAIL - HIP DORMER SIDE EAVE
1 1/2" = 1'-0"



2 SECTION DETAIL - ROOF RIDGE TRANSITION
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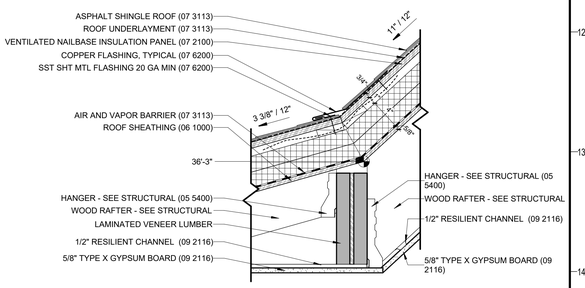

5 SECTION DETAIL - HIP DORMER SIDE BASE FLASHING
1 1/2" = 1'-0"

1 SECTION DETAIL - ROOF SLOPE TRANSITION
1 1/2" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title EXTERIOR DETAILS - ROOF

Sheet No. **A5.14**

Project Name
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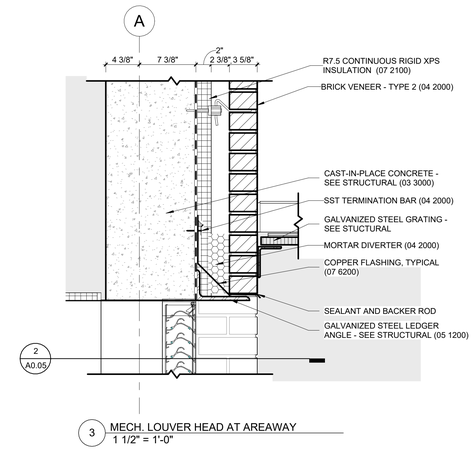
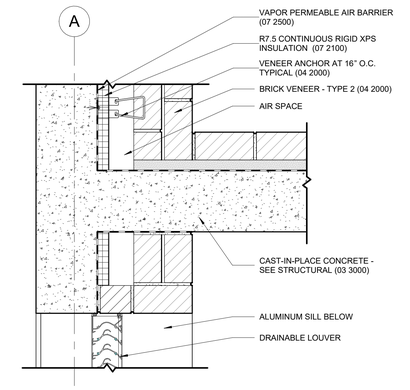
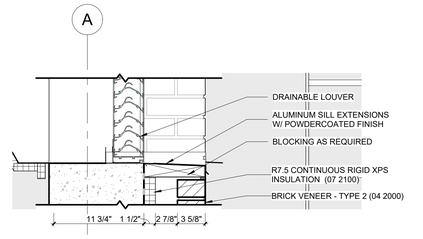


3 MECH. LOUVER HEAD AT AREAWAY
1 1/2" = 1'-0"



2 MECH. LOUVER JAMB
1 1/2" = 1'-0"



1 MECH. LOUVER SILL AT AREAWAY
1 1/2" = 1'-0"

Project Name
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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

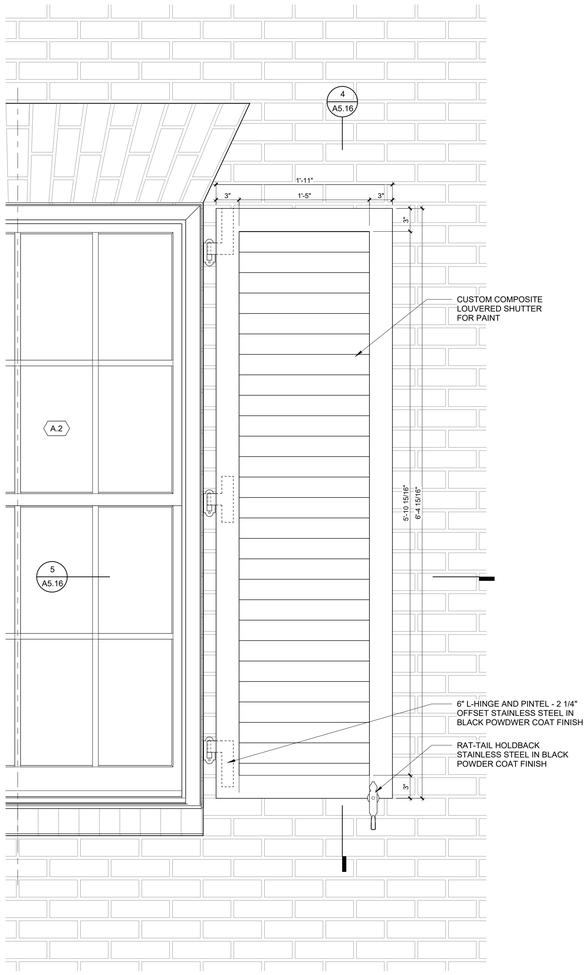
Date 12.18.2025

Title

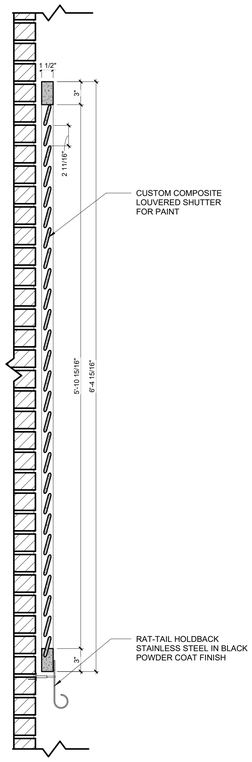
MISC. EXTERIOR DETAILS

Sheet No.

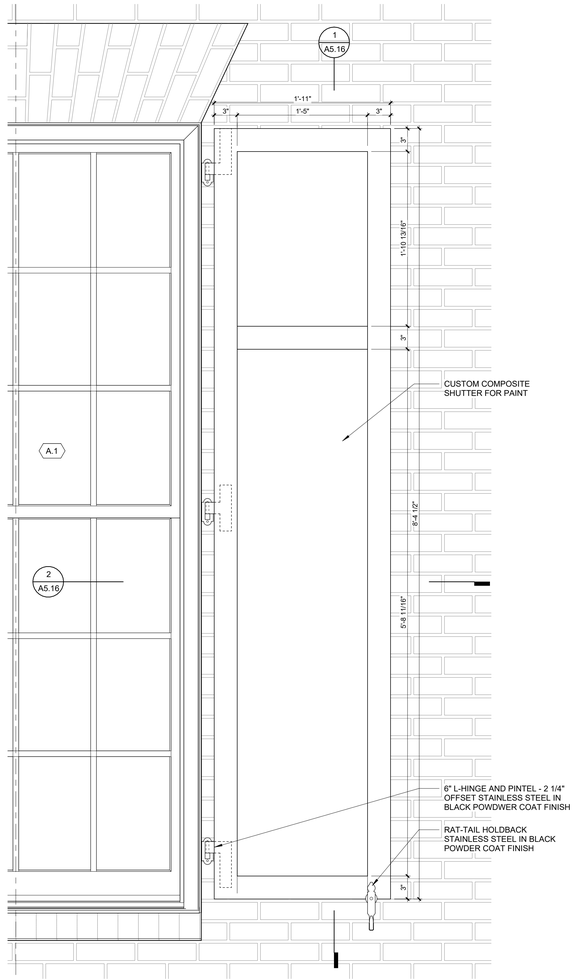
A5.15



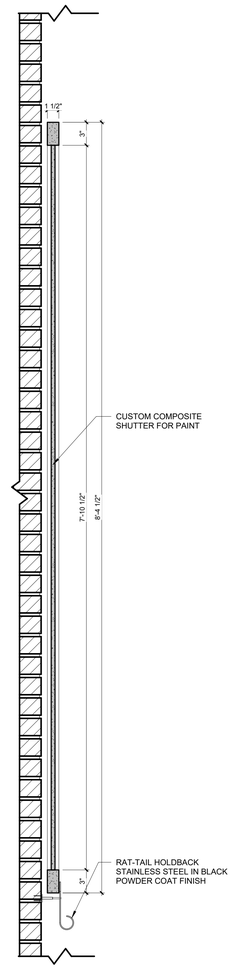
6 ELEVATION DETAIL - SHUTTER AT WINDOW A.2
1 1/2" = 1'-0"



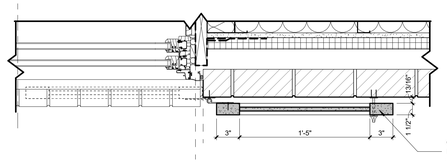
4 SECTION - SHUTTER AT WINDOW A.2
1 1/2" = 1'-0"



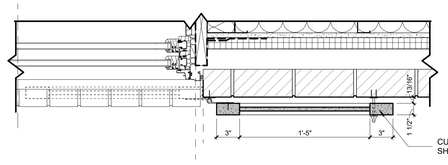
3 ELEVATION DETAIL - SHUTTER AT WINDOW A.1
1 1/2" = 1'-0"



1 SECTION - SHUTTER AT WINDOW A.1
1 1/2" = 1'-0"



5 JAMB DETAIL - SHUTTER AT WINDOW A.2
1 1/2" = 1'-0"



2 JAMB DETAIL - SHUTTER AT WINDOW A.1
1 1/2" = 1'-0"

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WEIR NORTHWEST ARKANSAS, PLLC
NO 'LL-200
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

EXTERIOR DETAILS - SHUTTERS

Sheet No.

A5.16

Project Norm
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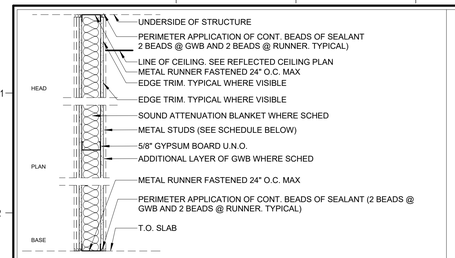
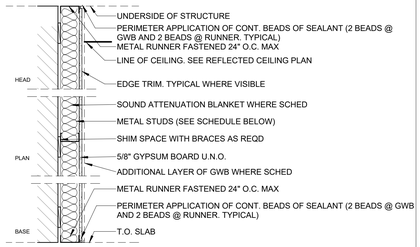


TYPE	1ST LAYER 2ND LAYER	STUD SIZE / SPACING	1ST LAYER 2ND LAYER	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "INCHES")					

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

1A	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"	3"			
	(TOTAL WALL WIDTH: 4 7/8")			20	49 SA-870717			
1B	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"	NONE			
	(TOTAL WALL WIDTH: 4 7/8")			20	40 USG-860808			
1C	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"	3"			EXTEND GYP. BD. 6" ABOVE CEILING, SEE GENERAL NOTE 13
	(TOTAL WALL WIDTH: 4 7/8")			20	40 USG-860808			
1D	5/8"	6" 16" O.C.	5/8"	19'-9"	3"			
	(TOTAL WALL WIDTH: 7 1/4")			20	49 SA-870717			
1E	5/8"	3 5/8" 16" O.C.	1/2" RESILIENT CHANNEL 5/8"	15'-4"	3"			SEE GENERAL NOTE 7
	(TOTAL WALL WIDTH: 5 3/8")			20	54 RAL-TL-83-216			
1F	5/8"	6" 16" O.C.	1/2" RESILIENT CHANNEL 5/8"	19'-9"	3"			SEE GENERAL NOTE 7
	(TOTAL WALL WIDTH: 7 3/4")			20	54 RAL-TL-83-216			
1G	5/8"	3 5/8" 16" O.C.	1/2" RESILIENT CHANNEL 5/8"	15'-4"	3"	1 HR	UL-U419	SEE GENERAL NOTE 7
	(TOTAL WALL WIDTH: 5 3/8")			20	54 RAL-TL-83-216			
1H	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"	3"	1 HR	UL-U419	
	(TOTAL WALL WIDTH: 4 7/8")			20	40 USG-860808			
1J	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"	3"	1 HR	UL-U419	
	(TOTAL WALL WIDTH: 4 7/8")			20	49 SA-870717			
1K	5/8" 5/8"	3 5/8" 16" O.C.	5/8" 5/8"	15'-4"	3"	2 HR	UL-U419	
	(TOTAL WALL WIDTH: 6 1/8")			20	N/A			
1L	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"	3"	2 HR	UL-U419	
	(TOTAL WALL WIDTH: 6 1/8")			20	N/A			
1M	5/8"	3 5/8" 16" O.C.	5/8"	15'-4"				EXTEND STUDS & G.B. AT ONE SIDE TO DECK, SEAL SMOKE TIGHT. SEE GENERAL NOTE 7. SEE GENERAL NOTE 13
	(TOTAL WALL WIDTH: 4 7/8")			20	N/A			
1N	5/8" 5/8"	6" 16" O.C.	5/8" 5/8"	17'-6"	3"	2 HR	UL-U419	
	(TOTAL WALL WIDTH: 8 1/2")			20	N/A			
1P	5/8"	3 1/2" 16" O.C.	5/8"	N/A	3"	1HR	UL U305	NOTE 13
	(TOTAL WALL WIDTH: 4 3/4")			N/A	30 NGC 2404, 10-14-70			
1O	5/8"	5 1/2" 16" O.C.	5/8"	N/A	3"	1 HR	WP 3660	
	(TOTAL WALL WIDTH: 6 3/4")			N/A				
1Q	5/8" 5/8"	3 5/8" 16" O.C.	5/8" 5/8"	15'-4"	3"			
	(TOTAL WALL WIDTH: 6 1/8")			20	54 RAL-TL-83-216			
1R	5/8"	1 5/8" 16" O.C.	5/8"	N/A	NONE			
	(TOTAL WALL WIDTH: 2 7/8")			N/A				

1 MTL STUD WALL

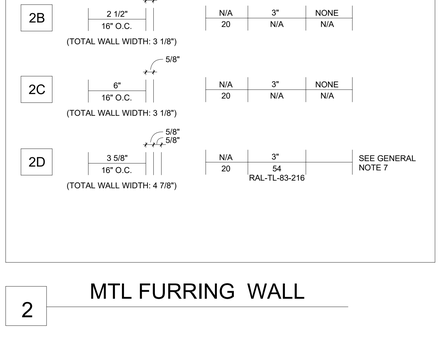


TYPE	1ST LAYER	STUD SIZE / SPACING	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "VARIES")				

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

2A	5/8"	3 5/8" 16" O.C.	N/A	3"	NONE		
	(TOTAL WALL WIDTH: 4 1/4")		20	N/A	N/A		
2B	5/8"	2 1/2" 16" O.C.	N/A	3"	NONE		
	(TOTAL WALL WIDTH: 3 1/8")		20	N/A	N/A		
2C	5/8"	6" 16" O.C.	N/A	3"	NONE		
	(TOTAL WALL WIDTH: 3 1/8")		20	N/A	N/A		
2D	5/8" 5/8"	3 5/8" 16" O.C.	N/A	3"			SEE GENERAL NOTE 7
	(TOTAL WALL WIDTH: 4 7/8")		20	54 RAL-TL-83-216			

2 MTL FURRING WALL

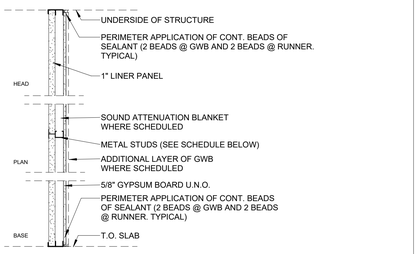


TYPE	1ST LAYER	STUD SIZE / SPACING	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "VARIES")				

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

3A	5/8"	7/8" 16" O.C.	N/A	NONE	NONE		
	(TOTAL WALL WIDTH: "1 1/2")		20	N/A	N/A		
3B	5/8"	1 1/2" 16" O.C.	N/A	NONE	NONE		
	(TOTAL WALL WIDTH: "2 1/8")		20	N/A	N/A		

3 MTL FURRING CHANNELS



LINER PANEL	TYPE	1ST LAYER	STUD SIZE / SPACING	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
			(TOTAL WALL WIDTH: "VARIES")				

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

1" LINER PANEL	4A	5/8"	2 1/2" C-H 24" O.C.	12'-0"	1"	1 HR		
	(TOTAL WALL WIDTH: 3 1/8")			20	48 RAL-0T-04-022	UL-U415		
1" LINER PANEL ON INSIDE OF SHAFT	4B	5/8"	3" C-H 24" O.C.	14'-0"	3"	1 HR		
	(TOTAL WALL WIDTH: 4 5/8")			20	48 RAL-0T-04-019	UL-U415		
1" LINER PANEL ON INSIDE OF SHAFT	4C	5/8"	4" C-H 24" O.C.	14'-0"	3"	1 HR		
	(TOTAL WALL WIDTH: 4 5/8")			20	48 RAL-0T-04-019	UL-U415		
1" LINER PANEL ON INSIDE OF SHAFT	4E	5/8" 5/8"	3" C-H 24" O.C.	14'-0"	3"	2 HR		
	(TOTAL WALL WIDTH: 5 1/4")			20	48 RAL-0T-04-019	UL-U415		
1" LINER PANEL ON INSIDE OF SHAFT	4F	5/8" 5/8"	5" C-H 24" O.C.	14'-0"	3"	2 HR		
	(TOTAL WALL WIDTH: 5 1/4")			20	48 RAL-0T-04-019	UL-U415		

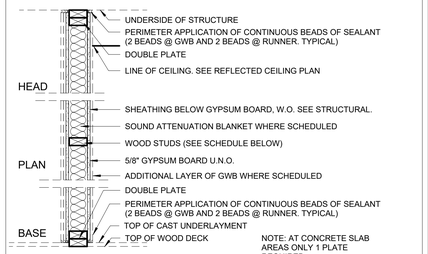
4 MTL SHAFT WALL

TYPE	1ST LAYER	STUD SIZE / SPACING	AIR SPACE	STUD SIZE / SPACING	1ST LAYER	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	NONE / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "VARIES")							

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

5A	5/8"	2 1/2" 16" O.C.	1" - 5 3/4"	2 1/2" 16" O.C.	5/8"	17'-6"	3 1/2" (1 SIDE)	1 HR
	(TOTAL WALL WIDTH: 24")					20	48 RAL-TL-76-155	UL-U420
5B	5/8"	6" 16" O.C.	1"	6" 16" O.C.	5/8" 5/8"	15'4"	3 1/2" (1 SIDE)	
	(TOTAL WALL WIDTH: 25 7/8")					20	48	
5C	5/8" 5/8"	3 5/8" 16" O.C.	1"	3 5/8" 16" O.C.	5/8"	15'4"	3 1/2" (BOTH SIDES)	
						20	48	

5 MTL CHASE WALL



TYPE	1ST LAYER 2ND LAYER	STUD SIZE / SPACING	1ST LAYER 2ND LAYER	N/A / N/A	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "INCHES")					

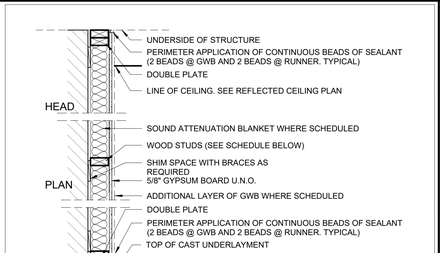
(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

6A	5/8"	3 1/2" 16" O.C.	5/8"	N/A	3"	1HR		
	(TOTAL WALL WIDTH: 4 3/4")			N/A	STC 36	UL U305		
6B	5/8"	3 1/2" 16" O.C.	5/8"	N/A	3"			
	(TOTAL WALL WIDTH: 4 3/4")			N/A				
6C	5/8"	5 1/2" 16" O.C.	5/8"	N/A	3"	1 HR		
	(TOTAL WALL WIDTH: 6 3/4")			N/A		UL U305		
6D	5/8"	5 1/2" 16" O.C.	5/8"	N/A	3"			
	(TOTAL WALL WIDTH: 6 3/4")			N/A				
6E	5/8"	3 1/2" 16" O.C.	1/2" RESILIENT CHANNEL 5/8"	N/A	3"	1 HR		SEE GENERAL NOTE 7
	(TOTAL WALL WIDTH: 5 1/4"")			N/A	47 TL-73-72	UL 327		
6F	5/8"	3 1/2" 16" O.C.	5/8"	N/A	N/A			
	(TOTAL WALL WIDTH: 4 3/4")			N/A				
6G	5/8" 3/4"	3 1/2" 16" O.C.	5/8" 5/8"	17'-6"	3"	2 HR		
	(TOTAL WALL WIDTH: 6 1/8")			20	N/A	UL-U419		
6H	5/8"	3 1/2" 16" O.C.	5/8"	N/A	-	-		PARTIAL HEIGHT PARTITION REF. INT ELEVATION
	(TOTAL WALL WIDTH: 4 3/4")			N/A	-	-		
6J	5/8"	3 1/2" 16" O.C.	5/8"	N/A	-	2 HR		
	(TOTAL WALL WIDTH: 4 3/4")			N/A	-	-		

6 WD STUD WALL

GENERAL NOTES

1. SEE PARTITION DETAIL DRAWINGS AND PROJECT SPECIFICATIONS FOR SEISMIC DETAILS AND PERFORMANCE CRITERIA FOR ALL STUD AND MASONRY PARTITIONS
2. INSTALL CEMENTITIOUS BACKER BOARD IN LIEU OF GYPSUM WALL BOARD AT LOCATIONS INDICATED TO RECEIVE WALL TILE
3. INSTALL WATER RESISTANT WALL BOARD AT ALL WALL SURFACES IN TOILET ROOMS, JANITORS CLOSETS, AND SIMILAR WET AREAS NOT INDICATED TO RECEIVE WALL TILE. INSTALL MINIMUM 2" PAST EDGE OF FIXTURE AND 24" VERTICALLY ABOVE FIXTURE AT SINGLE FIXTURE LOCATIONS
4. INSTALL TYPE "X" FIRE RATED GYPSUM BOARD AT ALL FIRE RATED PARTITIONS
5. INSTALL "BLUEBOARD" GYPSUM WALL BOARD AT PARTITIONS INDICATED TO RECEIVE VENEER PLASTER
6. STC RATINGS PROVIDE ONLY A GENERAL INDICATION OF ACOUSTIC PERFORMANCE UNDER LABORATORY TEST CONDITIONS. CONSTRUCTION DETAILS DESCRIBED IN THE DRAWINGS AND SPECIFICATIONS DEFINE THE SPECIFIC REQUIREMENTS FOR THE WORK
7. THE ASYMMETRICAL LAYER ON PARTITIONS IS TO BE INSTALLED ON THE SIDE OF THE PARTITION ON WHICH THE TYPE KEY IS SHOWN
8. SEE SPECIFICATION FOR ALL FIRE RESISTANT JOINT SYSTEMS FOR LOCATIONS ABUTTING METAL DECK & /OR CONCRETE STRUCTURE OVERHEAD
9. UNLESS INDICATED OTHERWISE, WALLS NOT SPECIFICALLY TAGGED SHALL ACQUIRE THE TYPE PROPERTIES OF ADJACENT PARTITIONS.
10. REFER TO STRUCTURAL FOR DEFLECTION CRITERIA WHEN DETERMINING GAUGE SIZES.
11. THE STC TEST RESULTS REFERENCED FOR INTERIOR PARTITIONS TYPICALLY INDICATE A METAL STUD SPACING OF 24" O.C.. **WER** PURPOSELY INDICATES METAL STUD SPACING TO BE 16" O.C. AT INTERIOR PARTITIONS FOR IMPROVED IMPACT RESISTANCE AND DURABILITY OF THE PARTITION. IT IS EXPECTED THAT HE ACOUSTIC PERFORMANCE OF THE PARTITION WILL BE MINUTELY REDUCED BY THIS CHANGE IN STUD SPACING, HOWEVER WE KNOW OF NO TEST RESULTS AVAILABLE TO SPECIFICALLY QUANTIFY THAT REDUCTION.
12. REFERENCE SPECIFICATIONS FOR TREATMENT OF WALL PENETRATIONS
13. COMPLY WITH THE SPECIFICATIONS, ASTM C 754-04 AND THE MANUFACTURER'S RECOMMENDATIONS FOR METAL STUD PARTITIONS AND WALL BRACING INSTALLATION REQUIREMENTS. REFER TO MANUFACTURER'S NON-COMPOSITE LIMITING HEIGHT TABLES FOR THE MAXIMUM ALLOWABLE PARTITION HEIGHTS FOR NON-COMPOSITE WALL ASSEMBLIES.
14. REFER TO STRUCTURAL FOR THE STRUCTURAL DESIGN PARAMETERS FOR MASONRY WALL ASSEMBLY INSTALATION REQUIREMENTS AND LIMITS.
15. MARK RATED WALL LINES ABOVE CEILING FINISH WITH RED STENCILED LETTERING STATING " FIRE AND/OR SMOKE BARRIER, PROTECT ALL OPENINGS" PER IBC SECTION 703.7.

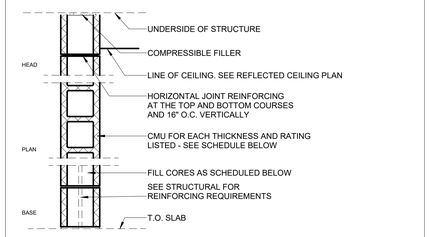


TYPE	1ST LAYER	STUD SIZE / SPACING	N/A / N/A	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "VARIES")				

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

7A	5/8"	3 1/2" 16" O.C.	N/A				
	(TOTAL WALL WIDTH: 4 1/8")		N/A				
7B	5/8"	1 1/2" 16" O.C.	N/A				2X4 STUDS LAID FLAT
	(TOTAL WALL WIDTH: 2 1/8")		N/A				
7C	5/8"	2 1/2" 16" O.C.	N/A				
	(TOTAL WALL WIDTH: 3 1/8"")		N/A				
7D	5/8"	3/4" 16" O.C.	N/A				
	(TOTAL WALL WIDTH: 1 3/8"")		N/A				
7E	5/8"	5 1/2" 16" O.C.	N/A				
	(TOTAL WALL WIDTH: 6 1/8"")		N/A				

7 WOOD FURRING WALL



TYPE	1ST LAYER	NOMINAL SIZE / SPACING	MAX HEIGHT / MIN. GAUGE	INSUL. THICKNESS / STC TEST	FIRE RATING / TEST DESIGN	REMARKS
		(TOTAL WALL WIDTH: "INCHES")				

(NOTE: SOME PARTITION TYPES LISTED MAY NOT BE USED)

8A	8"		N/A	NONE	2HR	SEE GENERAL NOTE 14	
	(TOTAL WALL WIDTH: 7 5/8")		N/A	N/A	N/A		
8B	6"		N/A	NONE		SEE GENERAL NOTE 14	
	(TOTAL WALL WIDTH: 5 5/8")		N/A	N/A	N/A		
8C	4"		N/A	NONE		SEE GENERAL NOTE 14	
	(TOTAL WALL WIDTH: 3 5/8")		N/A	N/A	N/A		

8 CMU

Project Name
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Seal

REGISTERED ARCHITECT — WER NORTHWEST ARKANSAS, PLLC — NO LL-208 — STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

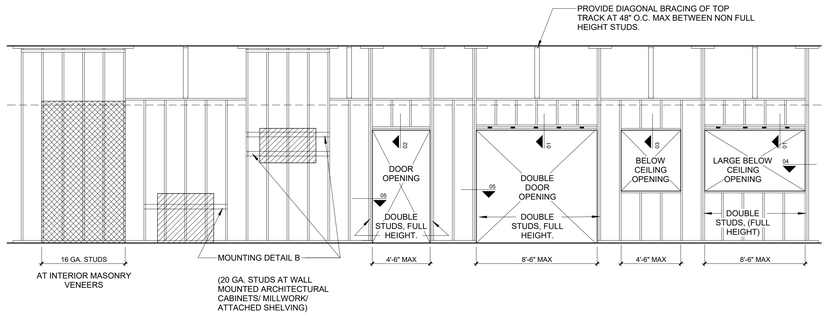
No.	Issue	Date

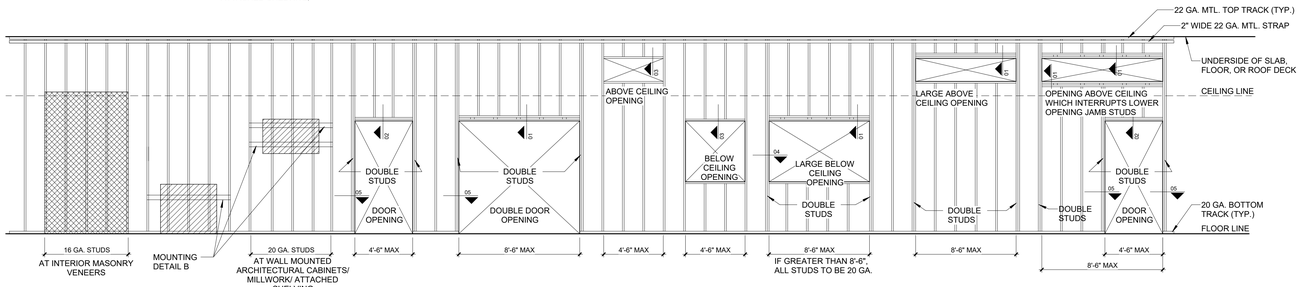
Job No. UAFAPH-21.01
Date 12.18.2025
Title PARTITION SCHEDULE
Sheet No. **A6.01**

TYPICAL STUD FRAMING ELEVATIONS

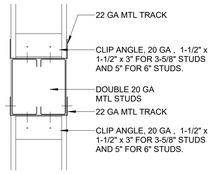
NOTES:

1. REFER TO PARTITION SCHEDULE FOR SPECIFIC STUD FRAMING DETAILS
2. ALL STUDS ARE SPACED 16" O.C. MAXIMUM.
3. ALL STUDS SHALL BE "C" STUDS WITH 1/4" MINIMUM FLANGE
4. ▨ DENOTES SHELVING OR CABINETRY.
5. ▨ DENOTES MASONRY VENEER.
6. REFER TO SPECIFICATIONS FOR STUD TYPE AND GAUGE
7. IN NO CASE SHALL DOUBLE STUDS AT SIDES OF OPENING BE CUT FOR DUCTWORK OR OTHER MECHANICAL SYSTEMS.
8. IN PROJECTS IN SEISMIC ZONES, MINIMUM STUD GAUGE IS 20 GA. - DETAILS TO BE MODIFIED ACCORDINGLY.

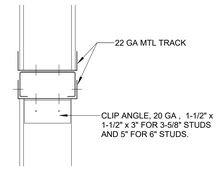




STUD OPENING DETAILS



01 DOUBLE DOOR/ LARGE OPENING HEADER
N.T.S.



02 DOOR OPENING HEADER
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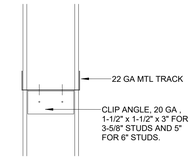

03 OPENING HEADER
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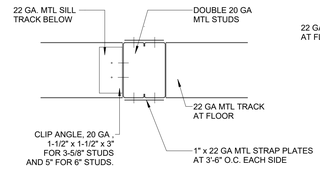
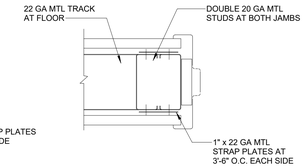
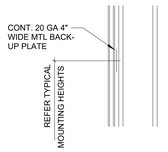


04 LARGE OPENING JAMB STUDS
N.T.S.

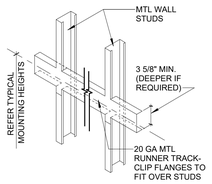


05 DOOR OPENING JAMB STUDS
N.T.S.

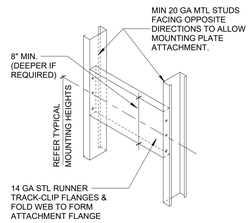
STUD MOUNTING DETAILS



TYPE A

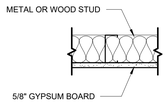


TYPE B



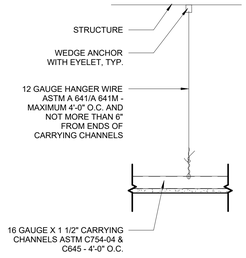
TYPE C

CEILING ASSEMBLIES



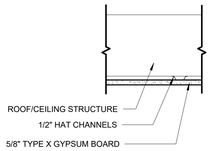
GBD-1

NON RATED GYP BOARD CEILING - GYPSUM BOARD ON METAL OR WOOD STUD FRAMING



GBD-2

NON RATED SUSPENDED GYPSUM BOARD CEILING SYSTEM

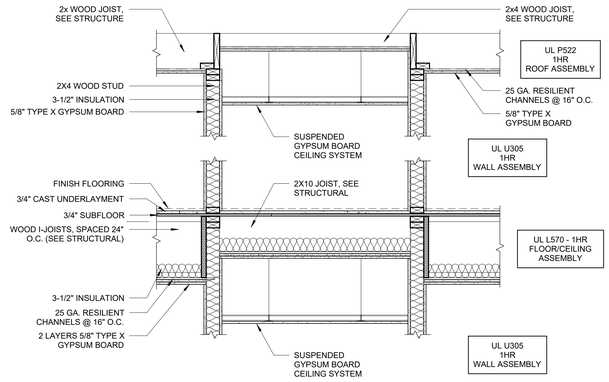


GBD-3

GYPSUM BOARD ON 1/2" HAT CHANNELS ATTACHED DIRECTLY TO ROOF STRUCTURE (1 HR RATED)

UL P522

1 CEILING ASSEMBLIES
1 1/2" = 1'-0"



2 RATED ASSEMBLIES AT RESIDENTIAL CORRIDORS, TYPICAL
3/4" = 1'-0"

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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CONSTRUCTION DOCUMENTS

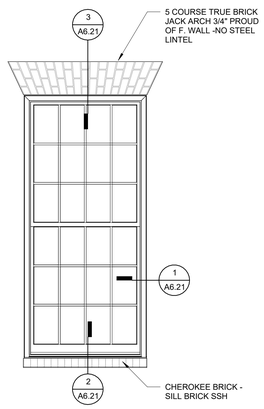
No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title
CEILING ASSEMBLIES/ PARTION FRAMING DETAILS
Sheet No.
A6.02

WINDOW TYPES

GENERAL NOTES:
1. SEE SCHEDULE FOR OVERALL DIMENSIONS & WINDOW MATERIAL
2. PROVIDE TEMPERED GLAZING AS REQUIRED. REFER TO SAFETY GLAZING SCHEDULE AND EXTERIOR ELEVATIONS FOR LOCATIONS.

1/2" = 1'-0"



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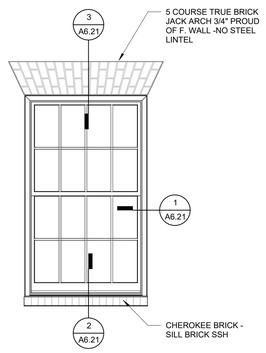

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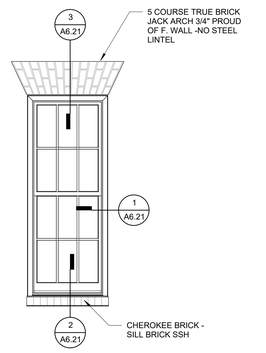

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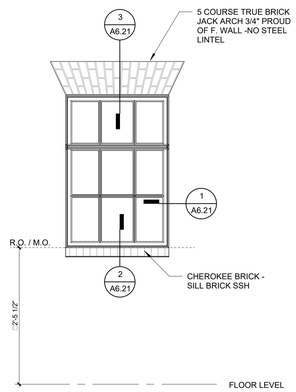
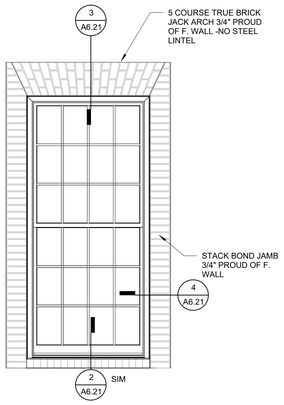
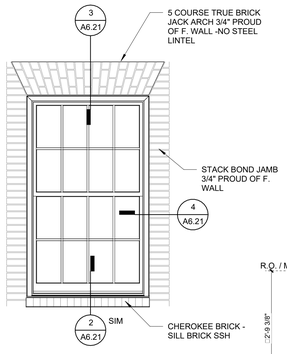


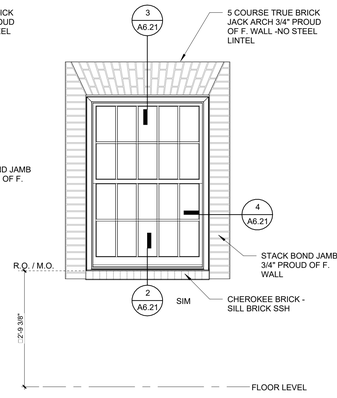
WINDOW TYPE A.4



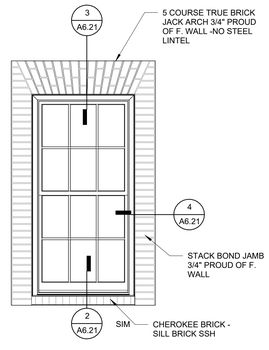
WINDOW TYPE B.1



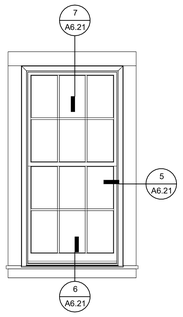
WINDOW TYPE B.2



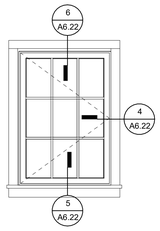
WINDOW TYPE B.3



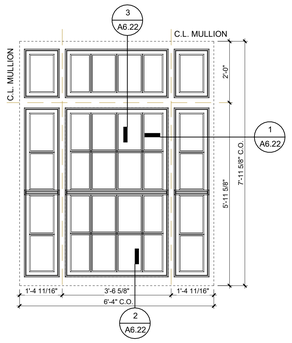
WINDOW TYPE B.4



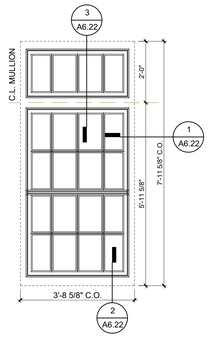
WINDOW TYPE C.1



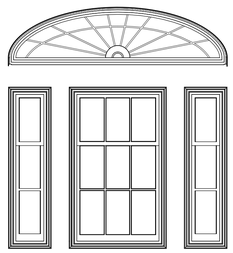
WINDOW TYPE D.1



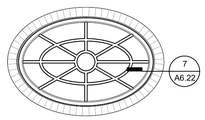
WINDOW TYPE E.1



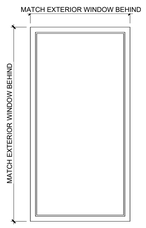
WINDOW TYPE E.2



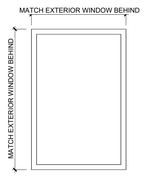
WINDOW TYPE F.1



WINDOW TYPE G.1



WINDOW TYPE H.1
(HOLLOW METAL FRAME WITH RATED GLASS)



WINDOW TYPE H.2
(HOLLOW METAL FRAME WITH RATED GLASS)

WINDOW SCHEDULE						
	MASONRY OPENING (M.O.) CLEAR OPENING (C.O.)		Details			
Type	Width	Height	Sill	Jamb	Head	Comments
A.1	4'-0 3/8"	8'-4 3/8"	2/A6.07	1/A6.07	3/A6.07	SINGLE HUNG
A.2	4'-0 3/8"	6'-4 3/8"	2/A6.07	1/A6.07	3/A6.07	SINGLE HUNG
A.3	2'-8 3/8"	6'-7"	2/A6.07	1/A6.07	3/A6.07	SINGLE HUNG
A.4	3'-4 3/8"	5'-0 3/8"	2/A6.07	1/A6.07	3/A6.07	SINGLE HUNG
B.1	4'-0 3/8"	8'-4 3/8"	2/A6.07	4/A6.07	3/A6.07	SINGLE HUNG
B.2	4'-0 3/8"	6'-4 3/8"	2/A6.07	4/A6.07	3/A6.07	SINGLE HUNG
B.3	4'-0 3/8"	5'-8 3/8"	2/A6.07	4/A6.07	<varies>	SINGLE HUNG
B.4	3'-4 3/8"	6'-7"	2/A6.07	4/A6.07	3/A6.07	SINGLE HUNG
C.1	3'-4 3/8"	6'-7"	2/A6.07	1/A6.07	5/A6.07	SINGLE HUNG
D.1	3'-0"	4'-5 1/4"	7/6.07	6/6.07	8/6.07	CASEMENT
E.1	6'-4"	8'-0"	2/6.09	1/6.09	3/6.09	3 SINGLE HUNG UNITS AND 3 FIXED TRANSOM UNITS
E.2	3'-8 5/8"	8'-0"	2/6.09	1/6.09 SIM	3/6.09	1 SINGLE HUNG UNIT AND 1 FIXED TRANSOM UNIT
F.1						
G.1	SEE ELEV	SEE ELEV	9/6.07 SIM	9/6.07	9/6.07 SIM	FIXED
H.1						
H.2						

GLAZING TYPES

IG-1 1" IGU, TYPICAL WINDOW
IG-1T 1" IGU TEMPERED
IG-2 3/4" IGU TEMPERED

G-1 1/4" ANNEALED GLASS
G-2 1/4" 20 MINUTE FIRE RATED
G-3 1/4" 45 MINUTE RATED GLASS
G-4 1/4" LAMINATED RESTORATION GLASS
G-5 FAUX ANTIQUE MIRROR

SAFETY GLASS LOCATIONS

NOT ALL CONDITIONS SHOWN BELOW ARE APPLICABLE TO THE SCOPE OF WORK.

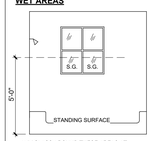
GLASS SCHEDULE FOR WALLS AND DOORS

NP - NOT PERMITTED
A - ACCEPTABLE
NR - NOT RECOMMENDED

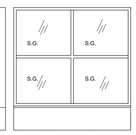
		ANNEALED	WIRED	TEMPERED	LAMINATED	FIRE-RATED
FIRE-RATED	SAFETY NOT REQUIRED	NP	A	NP	NP	A
	SAFETY REQUIRED	NP	NP	NP	NP	A
NON- FIRE-RATED	SAFETY NOT REQUIRED	A	A	A	A	NR
	SAFETY REQUIRED	NP	NP	A	A	NR

SAFETY GLAZING IS REQUIRED FOR:

WET AREAS

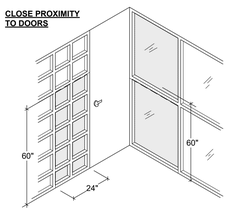


ANY GLASS AROUND THESE AREAS AT 60" OR LESS ABOVE THE STANDING SURFACE IS TO BE SAFETY GLASS.

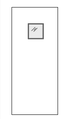


SAFETY GLASS IS TO BE USED FOR ALL DOORS AT HOT TUBS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATH TUBS OR SHOWERS.

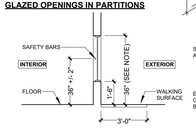
CLOSE PROXIMITY TO DOORS



GLAZED OPENINGS IN DOORS

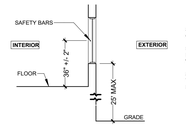


GLAZED OPENINGS IN PARTITIONS



SAFETY GLASS IS REQUIRED WHEN THE FOLLOWING CONDITIONS ARE PRESENT:
-TOP OF GLAZING IS GREATER THAN OR EQUAL TO 36" AFF
-EXPOSED SINGLE PANE IS GREATER THAN 9 SF
-BOTTOM OF GLAZING IS LESS THAN OR EQUAL TO 18" AFF
-WALKING SURFACE IS LOCATED WITHIN 36" OF ONE OR BOTH SIDES

EXCEPTION:
GLASS DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED WHERE WALKING SURFACE IS WITHIN 36" OF GLASS.



SAFETY GLASS IS REQUIRED AT INTERIOR LITE WHEN BOTTOM OF GLAZING IS LESS THAN OR EQUAL TO 18" AFF.

EXCEPTION:
INTERIOR LITE DOES NOT NEED TO BE SAFETY GLASS WHEN 1 1/2" SAFETY BAR IS INSTALLED

SAFETY GLASS IS REQUIRED FOR EXTERIOR LITES EXCEPT WHEN THE BOTTOM OF THE GLAZING IS GREATER THAN OR EQUAL TO 25 FEET ABOVE GRADE.

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title WINDOW SCHEDULE
Sheet No. **A6.20**

Project Name
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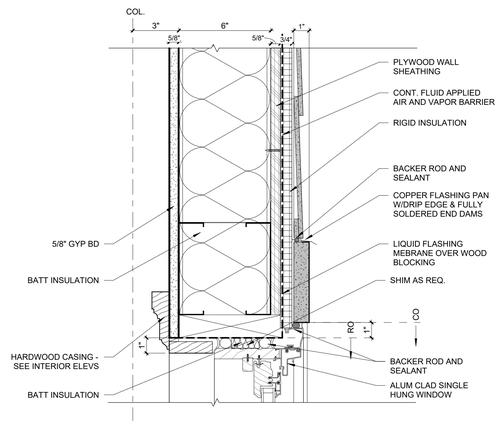
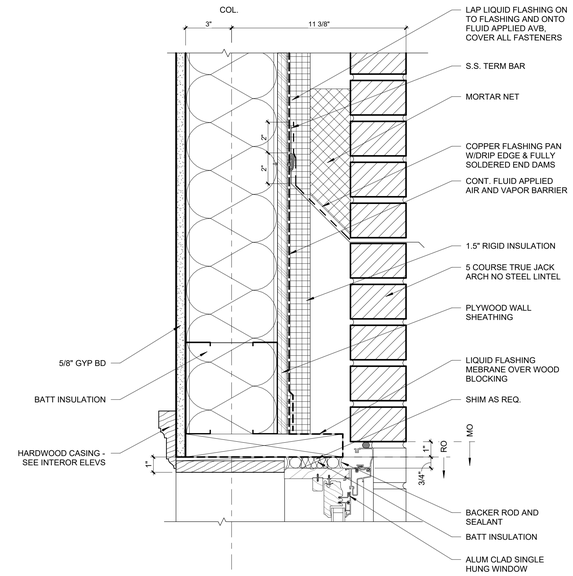
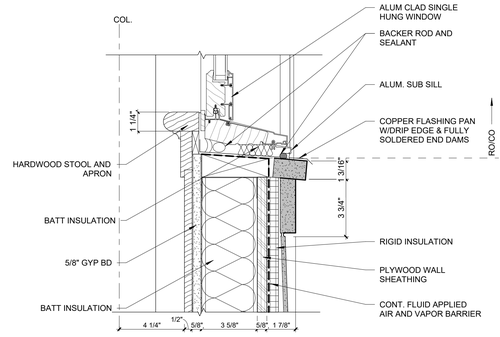


7 WINDOW HEAD TYPE C DETAIL
3" = 1'-0"

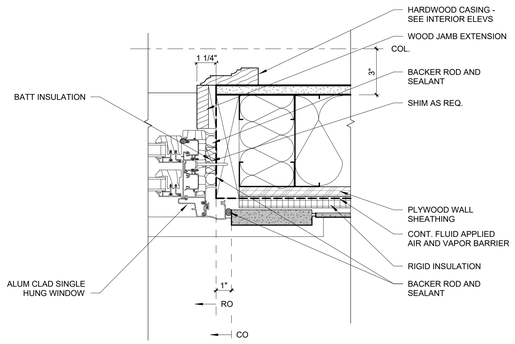


3 WINDOW HEAD TYPE A,B DETAIL
3" = 1'-0"

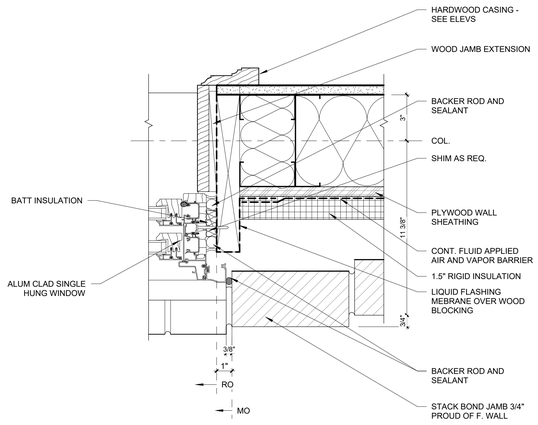


6 WINDOW SILL TYPE C DETAIL
3" = 1'-0"

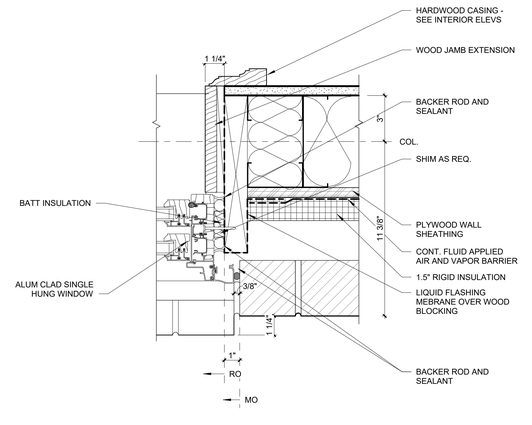
2 WINDOW SILL TYPE A,B DETAIL
3" = 1'-0"



5 WINDOW JAMB TYPE C DETAIL
3" = 1'-0"



4 WINDOW JAMB TYPE B DETAIL
3" = 1'-0"



1 WINDOW JAMB TYPE A DETAIL
3" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title TYPICAL WINDOW DETAILS

Sheet No. **A6.21**

Project Name
Autodesk Docs://Alpha Phi/UAFAPH22.01-NWA-UA ALPHA PHI HOUSE-25011?.rvt
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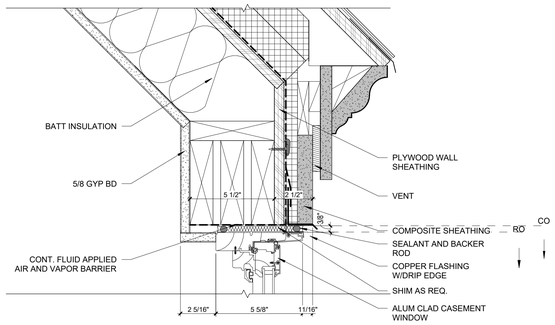
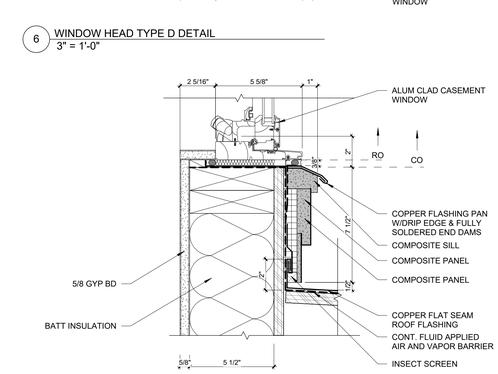
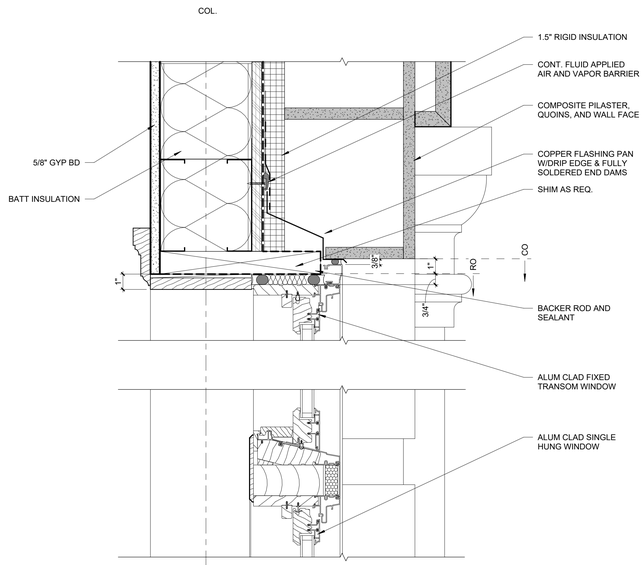


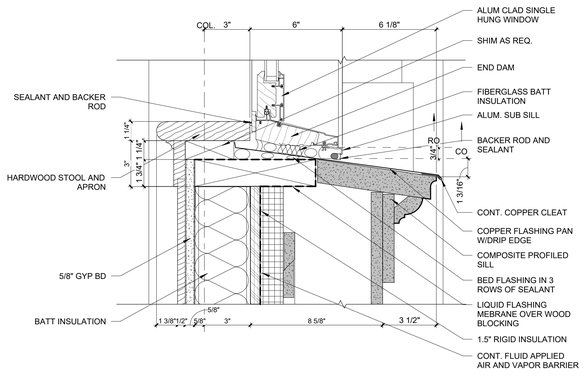
6 WINDOW HEAD TYPE D DETAIL
3" = 1'-0"



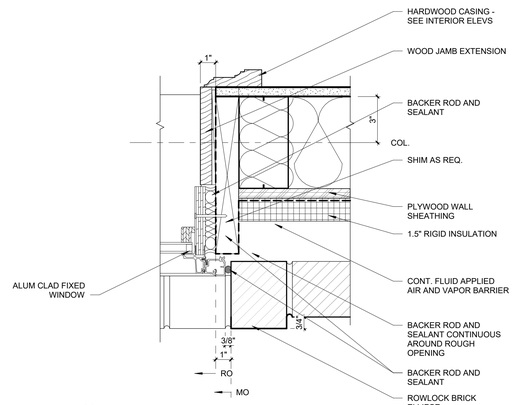
5 WINDOW SILL TYPE D DETAIL
3" = 1'-0"



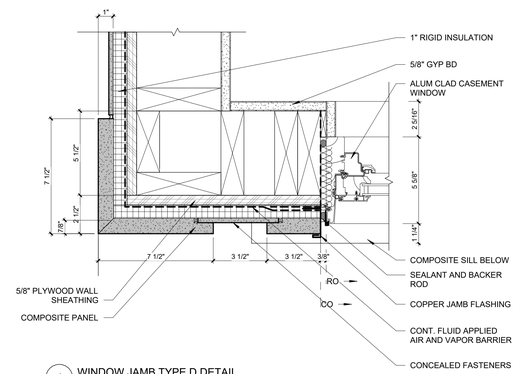
3 WINDOW HEAD TYPE E DETAIL
3" = 1'-0"



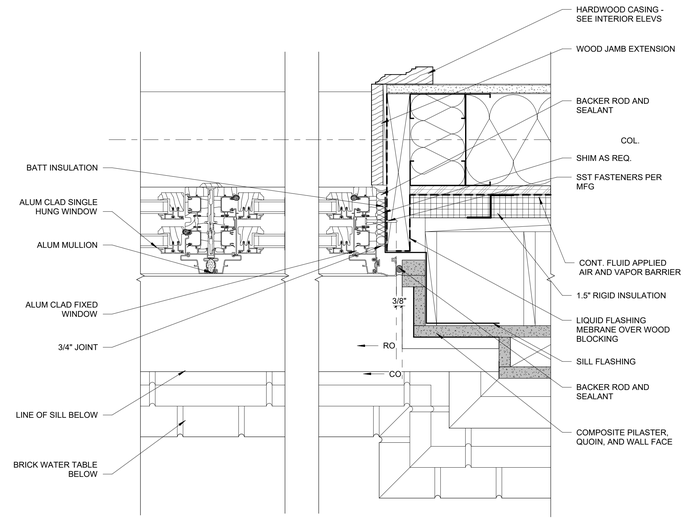
2 WINDOW SILL TYPE E DETAIL
3" = 1'-0"



7 WINDOW JAMB TYPE G DETAIL
3" = 1'-0"



4 WINDOW JAMB TYPE D DETAIL
3" = 1'-0"



1 WINDOW JAMB TYPE E DETAIL
3" = 1'-0"

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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Seal

REGISTERED ARCHITECT
WER NORTHWEST ARKANSAS, PLLC
CONSULTANT
NO LL-200
STATE OF ARKANSAS

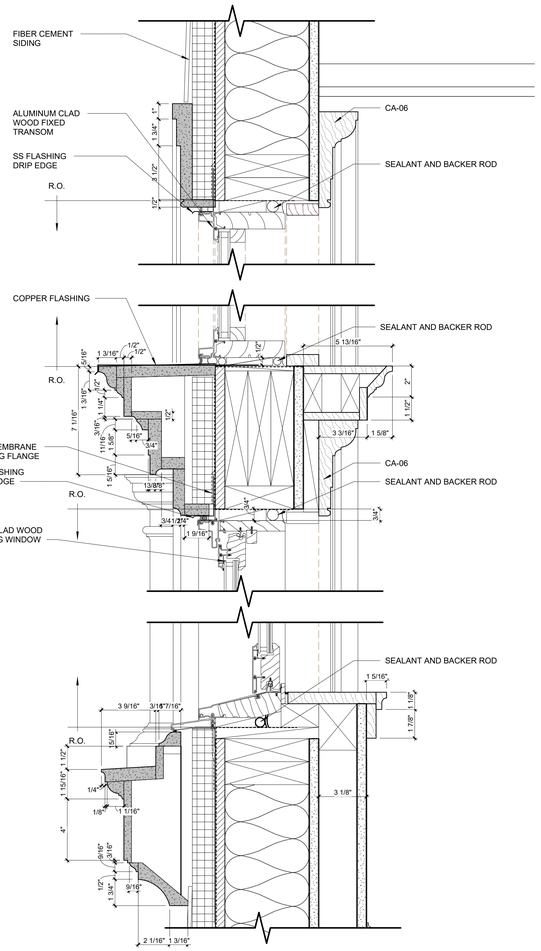
CONSTRUCTION DOCUMENTS

No.	Issue	Date

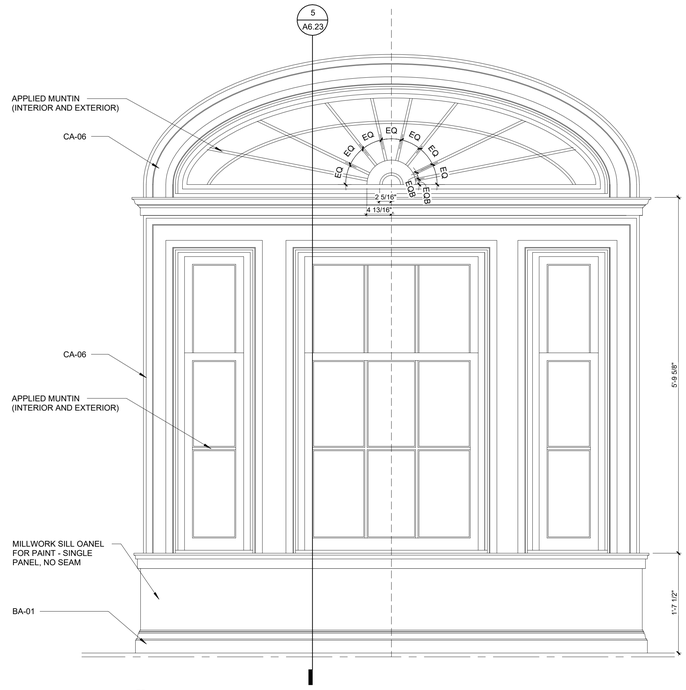
Job No.
UAFAPH-21.01
Date
12.18.2025
Title

TYPICAL WINDOW DETAILS

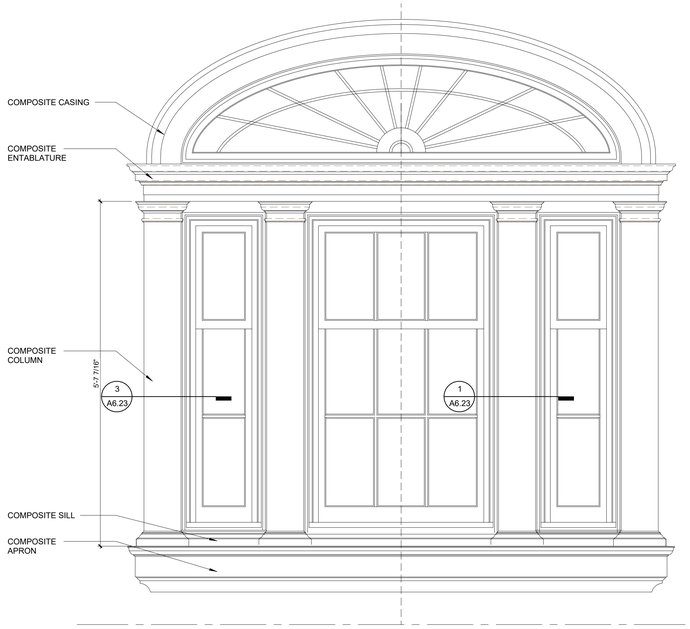
Sheet No.
A6.22



5 SECTION DETAIL - TYPE F.1
3" = 1'-0"



4 INTERIOR ELEVATION - TYPE F.1
1" = 1'-0"



2 EXTERIOR ELEVATION - TYPE F.1
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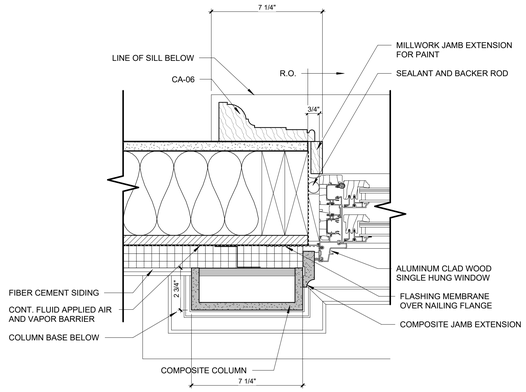
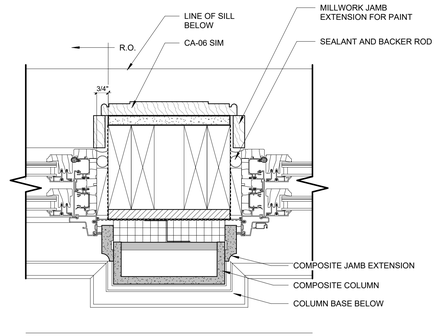


3 PLAN DETAIL - TYPE F.1 AT JAMB
3" = 1'-0"



1 PLAN DETAIL - TYPE F.1 AT MULLION JAMB
3" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

WINDOW DETAILS

Sheet No.
A6.23

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-IJA ALPHA PHI HOUSE-2501117.rvt
12/18/2025 6:00:20 PM

Door Schedule - LOWER LEVEL/GROUND

Level	Door Number	DOOR Type	DOOR Material	DOOR Size Width	DOOR Size Height	DOOR Size Thickness	FRAME Frame Type	U.L. Label	Hardware Set	Comments
LOWER LEVEL (86'-00")										
LOWER LEVEL (86'-00")	G001.1	EE	ACWD	6'-0"	7'-1 3/4"	2 1/4"	ALWD-1		Y714	DOOR HELD ALARM
LOWER LEVEL (86'-00")	G001.2	EE	ACWD	6'-0"	7'-1 3/4"	2 1/4"	ALWD-1		Y714	DOOR HELD ALARM
LOWER LEVEL (86'-00")	G001.3	EE	ACWD	6'-0"	7'-1 3/4"	2 1/4"	ALWD-1		Y714	DOOR HELD ALARM
LOWER LEVEL (86'-00")	G001.4	EE	ACWD	6'-0"	7'-1 3/4"	2 1/4"	ALWD-1		Y714	DOOR HELD ALARM
LOWER LEVEL (86'-00")	G001.5	EE	ACWD	6'-0"	7'-1 3/4"	2 1/4"	ALWD-1		CY714	ACCESS CONTROL, DOOR HELD ALARM
LOWER LEVEL (86'-00")	G002.1	BB	COM	6'-0"	7'-0"	1 3/4"	WD-2		210R	
LOWER LEVEL (86'-00")	G003.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-2	20 MIN	401R	
LOWER LEVEL (86'-00")	G004.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-2	45 MIN	210R	
LOWER LEVEL (86'-00")	GST1.1	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	PANIC HARDWARE
GROUND FLOOR (100'-0")										
GROUND FLOOR (100'-0")	1ST2.1	F	HM	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	CY715	DOOR HELD ALARM, PANIC HARDWARE
GROUND FLOOR (100'-0")	1ST2.2	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	PANIC HARDWARE
GROUND FLOOR (100'-0")	1ST3.1	F	HM	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	CY715	DOOR HELD ALARM, PANIC HARDWARE
GROUND FLOOR (100'-0")	1ST3.2	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	PANIC HARDWARE
GROUND FLOOR (100'-0")	100.1	SEE A6.54	SCWD	3'-9"	7'-8 3/8"	2 1/4"	SEE A6.54		CYE715	ACCESS CONTROL, DOOR HELD ALARM
GROUND FLOOR (100'-0")	100A.1	I	SCWD	2'-8"	7'-0"	1 3/4"	WD-3		203S	
GROUND FLOOR (100'-0")	100B.1	I	SCWD	2'-8"	7'-0"	1 3/4"	WD-3		203S	
GROUND FLOOR (100'-0")	101A.1	K	SCWD	2'-8"	6'-11 3/4"	1 3/4"	WD-4		463	JIB DOOR
GROUND FLOOR (100'-0")	102.1	LL	SCWD	7'-0"	9'-0"	2 1/4"	WD-7		902P	
GROUND FLOOR (100'-0")	102A.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-1		341	
GROUND FLOOR (100'-0")	103.1	SEE A6.61	SCWD	3'-10"	7'-5 5/8"	2 1/4"	SEE A6.61		CYE715	ACCESS CONTROL, DOOR HELD ALARM
GROUND FLOOR (100'-0")	103A.1	II	SCWD	6'-0"	7'-0"	1 3/4"	WD-5		210S	
GROUND FLOOR (100'-0")	104.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-1		341	
GROUND FLOOR (100'-0")	105.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-1		801HN	
GROUND FLOOR (100'-0")	105.2	GG	ACWD	6'-0"	7'-11"	2 1/4"	ALWD-2		Y714	DOOR HELD ALARM
GROUND FLOOR (100'-0")	105.3	GG	ACWD	6'-0"	7'-11"	2 1/4"	ALWD-2		Y714	DOOR HELD ALARM
GROUND FLOOR (100'-0")	105.4	GG	ACWD	6'-0"	7'-11"	2 1/4"	ALWD-2		Y714	DOOR HELD ALARM
GROUND FLOOR (100'-0")	105.5	GG	ACWD	6'-0"	8'-0"	2 1/4"	ALWD-2		Y264	DOOR HELD ALARM
GROUND FLOOR (100'-0")	105.6	GG	ACWD	6'-0"	8'-0"	2 1/4"	ALWD-2		Y264	ACCESS CONTROL, DOOR HELD ALARM
GROUND FLOOR (100'-0")	105.7	GG	ACWD	6'-0"	8'-0"	2 1/4"	ALWD-2		Y264	DOOR HELD ALARM
GROUND FLOOR (100'-0")	105A.1	II	SCWD	6'-0"	7'-0"	1 3/4"	WD-5		512S	PAIR OF DOORS
GROUND FLOOR (100'-0")	105B.1	II	SCWD	4'-0"	7'-0"	1 3/4"	WD-5		210S	PAIR OF DOORS
GROUND FLOOR (100'-0")	107.1	P	SCWD	4'-0"	7'-6"		WD-8		903P	
GROUND FLOOR (100'-0")	107.2	P	SCWD	4'-0"	7'-6"		WD-8		903P	
GROUND FLOOR (100'-0")	107.3	P	SCWD	3'-4"	7'-6"	1 3/8"	WD-6		903P	
GROUND FLOOR (100'-0")	108.1	G	ACWD	3'-0"	7'-0"	2 1/4"	ALWD-3		CY715	ACCESS CONTROL, DOOR HELD ALARM
GROUND FLOOR (100'-0")	108.2	I	SCWD	3'-0"	7'-6"	1 3/4"	WD-5		801HN	
GROUND FLOOR (100'-0")	109.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-2		341	
GROUND FLOOR (100'-0")	110B.2	OVERHEAD		3'-0"	3'-0"	1 1/2"				
GROUND FLOOR (100'-0")	112.1	SEE A6.65	SCWD	3'-0"	7'-5 5/8"	2 1/4"	SEE A6.65		UY205	KEY PAD ENTRY, DOOR HELD ALARM, NO TRANSOM
GROUND FLOOR (100'-0")	112.2	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-1		UK201	KEY PAD ENTRY
GROUND FLOOR (100'-0")	112B.1	C	COM	2'-6"	7'-0"	1 3/8"	WD-2		U403	
GROUND FLOOR (100'-0")	112D.1	B	COM	2'-8"	7'-0"	1 3/4"	WD-2		U303	
GROUND FLOOR (100'-0")	112E.1	C	COM	2'-10"	7'-0"	1 3/8"	WD-2		903P	
GROUND FLOOR (100'-0")	113.1	I	COM	3'-0"	7'-0"	1 3/4"	WD-5		201C	
GROUND FLOOR (100'-0")	114.1	SEE A6.63	ACWD	3'-0"	7'-0 1/2"	2 1/4"	SEE A6.63		CYE715	ACCESS CONTROL, DOOR HELD ALARM
GROUND FLOOR (100'-0")	114A.1	II	SCWD	4'-0"	7'-0"	1 3/4"	WD-5		210S	
GROUND FLOOR (100'-0")	114B.1	II	SCWD	4'-0"	7'-0"	1 3/4"	WD-5		203S	
GROUND FLOOR (100'-0")	115.1	CC	SCWD	7'-0"	9'-0"	2 1/4"	WD-7		902P	
GROUND FLOOR (100'-0")	115.2	J	SCWD	4'-6"	8'-0"	1 3/4"	WD-6		903P	
GROUND FLOOR (100'-0")	116.1	J	SCWD	4'-6"	8'-0"	1 3/4"	WD-6		903P	
GROUND FLOOR (100'-0")	117.1	LL	SCWD	7'-0"	9'-0"	2 1/4"	WD-8		902P	
GROUND FLOOR (100'-0")	117A.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-5		203S	
GROUND FLOOR (100'-0")	118.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-5		801H	
GROUND FLOOR (100'-0")	119.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-1		801H	
GROUND FLOOR (100'-0")	119A.1	B	COM	2'-8"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
GROUND FLOOR (100'-0")	119B.1	B	COM	2'-8"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
GROUND FLOOR (100'-0")	119C.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR

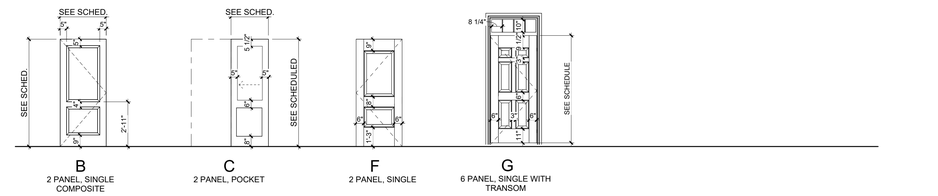
DOOR TYPES

1/4" = 1'-0"

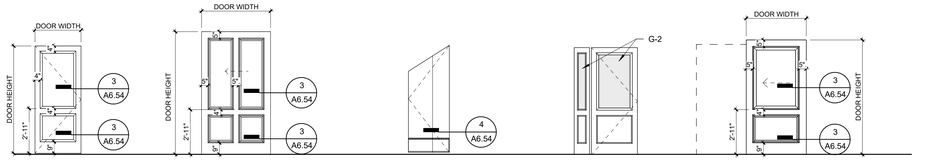
SEE SCHEDULE FOR OVERALL DIMENSIONS & DOOR MATERIAL

SCWD - SOLID CORE WOOD
HM - HOLLOW METAL

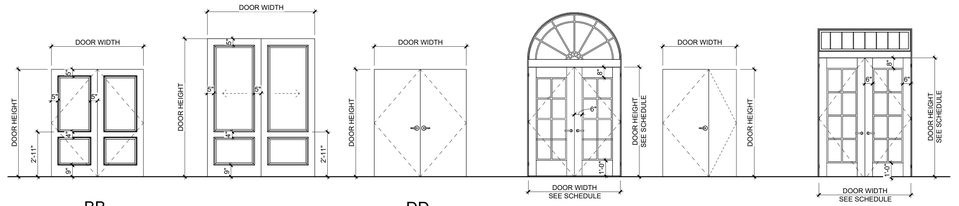
AL - ALUMINUM
COM - COMPOSITE
ACWD - ALUMINUM-CLAD WOOD



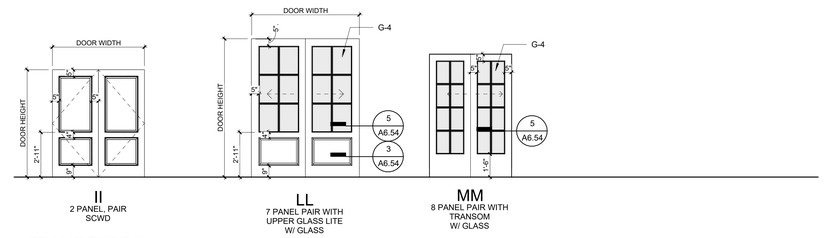
B — 2 PANEL, SINGLE COMPOSITE
C — 2 PANEL, POCKET
F — 2 PANEL, SINGLE
G — 6 PANEL, SINGLE WITH TRANSOM



I — 2 PANEL, SINGLE SCWD
J — 4 PANEL, POCKET
K — JIB, SINGLE
L — JIB, SINGLE W/ GLASS
P — 2 PANEL, POCKET SCWD



BB — 2 PANEL, PAIR COMPOSITE
CC — PAIR, 2 PANEL, POCKET
DD — FLUSH, PAIR
EE — 6 PANEL PAIR WITH ARCH
FF — FLUSH, UNEVEN
GG — 8 PANEL PAIR WITH TRANSOM



II — 2 PANEL, PAIR SCWD
LL — 7 PANEL PAIR WITH UPPER GLASS LITE W/ GLASS
MM — 8 PANEL PAIR WITH TRANSOM W/ GLASS

FRAME TYPES

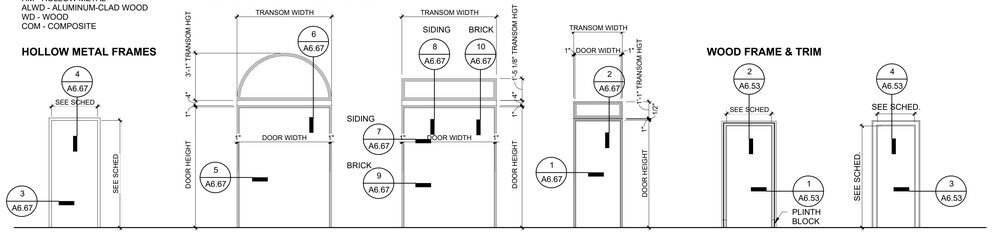
1/4" = 1'-0"

HM - HOLLOW METAL
ALWD - ALUMINUM-CLAD WOOD
WD - WOOD
COM - COMPOSITE

HOLLOW METAL FRAMES

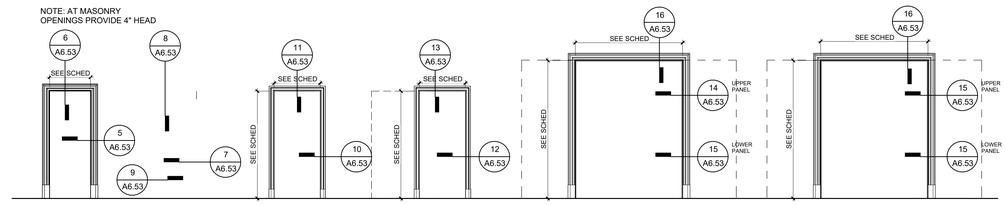
ALUMINUM-CLAD WOOD FRAMES

WOOD FRAME & TRIM



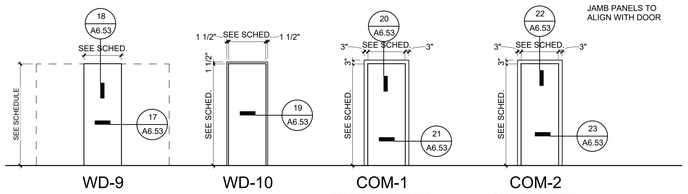
HM-1 — ALWD-1 — ALWD-2 — ALWD-3 — WD-1 — WD-2

NOTE: AT MASONRY OPENINGS PROVIDE 4" HEAD



WD-3 — WD-4 — WD-5 — WD-6 — WD-7 — WD-8

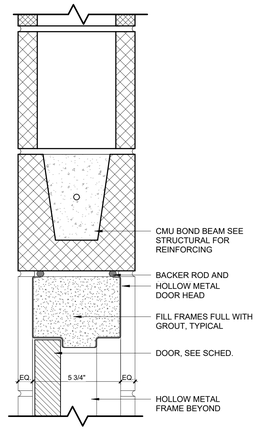
JAMB PANELS TO ALIGN WITH DOOR



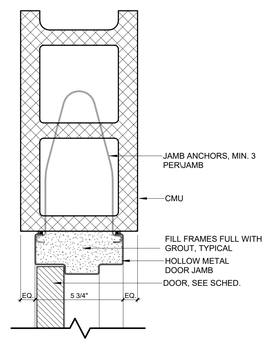
WD-9 — WD-10 — COM-1 BEDROOM ENTRY DOOR — COM-2 BEDROOM CLOSETS, STORAGE ROOM, ELECTRICAL CLOSETS

GLAZING TYPES

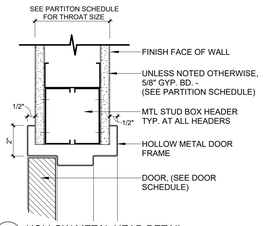
IG-1	1" IGU, TYPICAL WINDOW
IG-1T	1" IGU TEMPERED
IG-2	3/4" IGU TEMPERED
G-1	1/4" ANNEALED GLASS
G-2	1/4" 20 MINUTE FIRE RATED
G-3	1/4" 45 MINUTE RATED GLASS
G-4	1/4" LAMINATED RESTORATION GLASS
G-5	FAUX ANTIQUE MIRROR



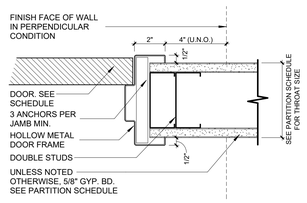
2 HOLLOW METAL HEAD @ CMU
3" = 1'-0"



4 HOLLOW METAL JAMB @ CMU
3" = 1'-0"



3 HOLLOW METAL HEAD DETAIL
3" = 1'-0"



5 HOLLOW METAL JAMB DETAIL
3" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
DOOR SCHEDULE TYP. DOOR AND FRAME ELEVS

Sheet No.
A6.50

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
12/18/2025 6:00:24 PM

Door Schedule - SECOND

Door Number	DOOR Type	DOOR Material	Size Width	Size Height	Size Thickness	FRAME Frame Type	U.L. Label	Hardware Set	Comments
SECOND FLOOR (114'-0")									
2ST2.1	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	DOOR HELD ALARM, PANIC HARDWARE
2ST3.1	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	PANIC HARDWARE
200.2	FF		4'-4 3/4"	7'-0"	1 3/4"	HM-1	45 MIN	738R	MAGNETIC HOLD OPENS TIED TO FIRE ALARM
200.3	FF		4'-4 3/4"	7'-0"	1 3/4"	HM-1	45 MIN	738R	MAGNETIC HOLD OPENS TIED TO FIRE ALARM
200A.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-3		201C	
201.1	SEE A6.56	ACWD	3'-8 5/16"	8'-10 7/8"	2 1/4"	SEE A6.56		2651	
201.2	MM	SCWD	5'-4"	8'-0"	1 3/4"	WD-9		902P	
202.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-3	45 MIN	U201	
204.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
204A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
204B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
204C	C	COM	3'-0"	7'-0"	1 3/8"	COM-2		903P	
205.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
205A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
205B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
206.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
206A.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
206B.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
206C.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
206D.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
207.1	L		3'-0"	7'-0"	1 3/4"	WD-3 SIM	20 MIN	401	SIDE LITE
209.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
209A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
209B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
210.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
210A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
210B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
211.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
211A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
211B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
212.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
212A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
212B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
213.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
213A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
213B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
214A.1	DD	COM	4'-0"	7'-0"	1 3/4"	COM-2	20 MIN	210S	
214B.1	DD	COM	4'-0"	7'-0"	1 3/4"	COM-2	20 MIN	210S	
215.1	I	SCWD	3'-0"	7'-0"	1 3/4"	WD-2	20 MIN	401	
216.1	B	COM	3'-3"	7'-0"	1 3/4"	COM-1	20 MIN	801H	
217.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
217A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
217B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
218.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
218A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
218B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
219.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
219A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
219B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
220.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
220A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
220B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
221.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-2	20 MIN	801H	
221A.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
221B.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
221C.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
221D.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
222A.1	DD	COM	5'-0"	7'-0"	1 3/4"	COM-2	20 MIN	210S	
222B.1	DD	COM	5'-0"	7'-0"	1 3/4"	COM-2	20 MIN	210S	
223.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
223A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
223B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
224.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-2	20 MIN	801H	
224A.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
224B.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
224C.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
226.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
226A.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
226B.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
226C.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
227.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
227A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
227B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
228.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
228A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
228B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
229.1	L		3'-0"	7'-0"	1 3/4"	WD-3 SIM	20 MIN	401	SIDE LITE
230.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
230A.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
230B.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
230C.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
230D.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
231.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
231A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
231B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
232.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
232A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
232B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	

Door Schedule - THIRD

Door Number	DOOR Type	DOOR Material	Size Width	Size Height	Size Thickness	FRAME Frame Type	U.L. Label	Hardware Set	Comments
THIRD FLOOR (126'-0")									
3ST2.1	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	PANIC HARDWARE
3ST3.1	I	SCWD	3'-0"	7'-0"	1 3/4"	HM-1	90 MIN	C741R	PANIC HARDWARE
300A	DD	COM	4'-0"	7'-0"	1 3/4"	COM-2	20 MIN	210S	
300A.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	45 MIN	201C	
301.1	L		3'-0"	7'-0"	1 3/4"	WD	20 MIN	401	
302.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
302A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
302B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
302C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
302D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
303.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
303A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
303B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
303C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
303D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
304A.1	A	COM	3'-0"	7'-0"	1 3/4"	COM-2		201C	
305.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
305A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
305B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
305C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
305D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
306.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
306A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
306B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
306C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
307.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
307A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
307B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
307C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
307D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
308A.1	DD	COM	4'-0"	7'-0"	1 3/4"	COM-2	20 MIN	210S	
309.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
309A.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
309B.1	DD	COM	2'-8"	6'-8"	1 3/4"	COM-2		U802	
310.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
310A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
310B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
311.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
311A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
311B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
312.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-2	20 MIN	801H	
312.2	B	COM	3'-0"	7'-0"	1 3/4"	WD-2		801H	
312A.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
312B.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
312C.1	B	COM	3'-0"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
312D.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
312E.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
312F.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
312G.1	B	COM	2'-4"	7'-0"	1 3/4"	WD-10		S343	BATHROOM DOOR
313.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
313A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
313B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
314.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
314A.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
314B.1	DD	COM	4'-0"	6'-8"	1 3/4"	COM-2		U802	
315.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
315A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
315B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
315C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
315D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
316.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
316A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
316B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
316C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
316D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
318.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
318A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
318B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
318C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
319.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
319A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
319B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
319C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
319D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
320.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	801H	
321.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	203	
322.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
322A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
322B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
322C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
322D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
323.1	B	COM	3'-0"	7'-0"	1 3/4"	COM-1	20 MIN	UK201	KEY PAD ENTRY
323A.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
323B.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
323C.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	
323D.1	DD	COM	3'-0"	6'-8"	1 3/4"	COM-2		U802	

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

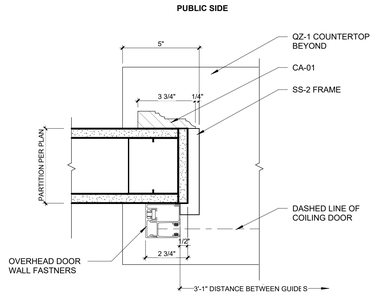
Job No.
UAFAPH-21.01
Date
12.18.2025
Title

DOOR SCHEDULE CONT.
Sheet No.
A6.51

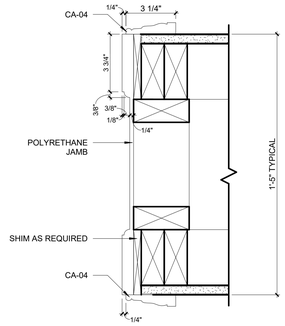
Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
12/18/2025 6:00:27 PM

Cased Opening Schedule

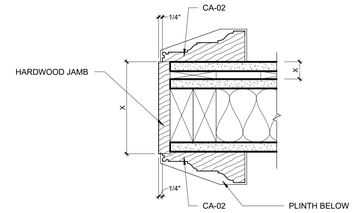
Cased Opening Number	OPENING			OPENING TYPE	DETAILS	Comments
	Material	Size Width	Size Height			
GROUND FLOOR (100'-0")						
C101.1	GFRG	4'-2 3/16"	8'-4 5/16"	PO-1		ARCH TOP PANELED JAMB. REF. INTERIOR ELEVATIONS FOR WIDTH AND HEIGHT.
C101.2	GFRG	4'-2 3/16"	8'-4 5/16"	PO-1		ARCH TOP PANELED JAMB. REF. INTERIOR ELEVATIONS FOR WIDTH AND HEIGHT.
C102.1	WD	4'-8 1/2"	8'-0"	CO-1	1/A6.52	
C103.2	WD	4'-8"	8'-4"	CO-1	1/A6.52	
C103.3	WD	4'-8"	8'-4"	CO-1	1/A6.52	
C103.4	WD	4'-8"	7'-4"	CO-1	1/A6.52	
C103.5	WD	4'-8"	7'-4"	CO-1	1/A6.52	
C103C.1	WD	3'-8"	7'-4"	CO-1	1/A6.52	
C105.1	WD	6'-0"	7'-4"	CO-1	1/A6.52	
C106.1	WD	10'-11 1/2"	8'-0"	CO-2	1/A6.52	
C110.1	WD	4'-0"	7'-4"	CO-1	1/A6.52	
C110A.1	WD	3'-1"	7'-4"	CO-1	1/A6.52	
C110B.1	WD	5'-0"	7'-4"	CO-1	1/A6.52	
C114.1	WD	5'-0"	7'-4"	CO-1	1/A6.52	
C114.2	WD	5'-0"	7'-4"	CO-2	2/A6.52	
C117.1	WD	10'-11 1/2"	8'-0"	CO-1	1/A6.52	
C117.2	WD	4'-6"	8'-0"	CO-1	1/A6.52	
SECOND FLOOR (114'-0")						
C200.1	GFRG	3'-6"	8'-4"	PO-1 SIM		
C200.4	GFRG	3'-6"	8'-4"	PO-1 SIM		
C200.5	GFRG	3'-6"	8'-4"	PO-1 SIM		
C200.8	GFRG	3'-6"	8'-4"	PO-1 SIM		
C200A	WD	4'-4"	7'-0"	NA - SEE DETAIL	1,2 / A6.52	
C200B	WD	4'-4"	7'-0"	NA - SEE DETAIL	1,2 / A6.52	
C201.1	WD	8'-6"	8'-0"	CO-3	3/A6.52	
C203.1	COM	4'-3 7/8"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C208.1	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C214.1	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C221.1	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C221.2	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C222.1	COM	4'-3 7/8"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C224.1	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C224.2	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C225.1	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C225.2	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
THIRD FLOOR (126'-0")						
C300.1	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C300.2	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C304.1	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C304.2	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C312.1	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C312.2	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C312.3	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C312.4	COM	3'-4"	7'-0"	CO-5	5/A6.52	
C317.1	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS
C317.2	COM	3'-9"	8'-0"	CO-4	4/A6.52	SEE PLAN FOR INSIDE/ OUTSIDE CORNER LOCATIONS

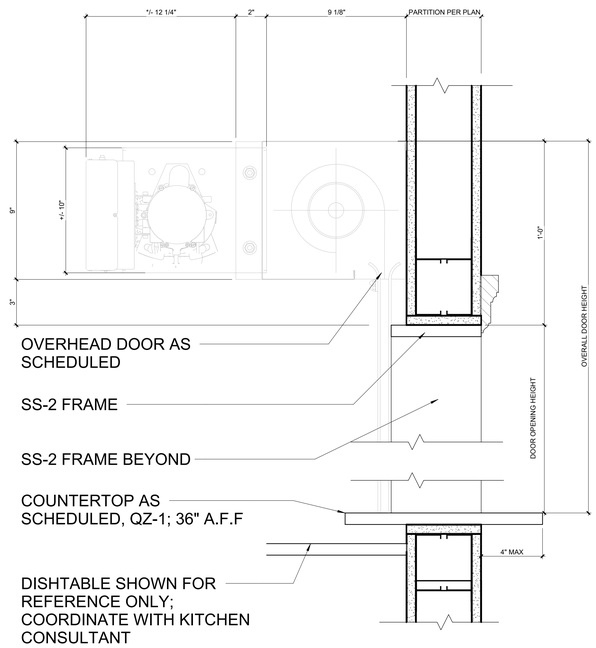


8 OVERHEAD DOOR JAMB DETAIL
3" = 1'-0"

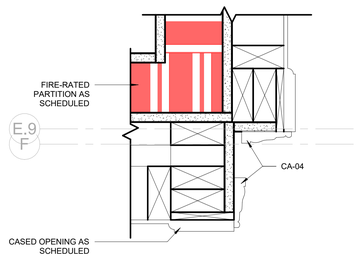


4 CO-4 DEEP CASED OPENING - JAMB
3" = 1'-0"



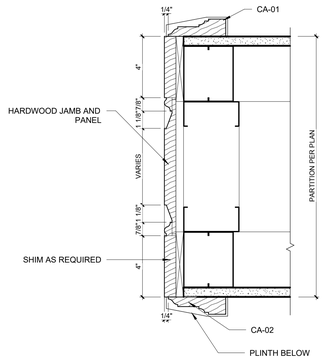


9 OVERHEAD DOOR HEAD DETAIL
3" = 1'-0"

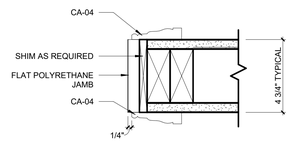


6 CO-4 INSIDE CORNER JAMB
3" = 1'-0"

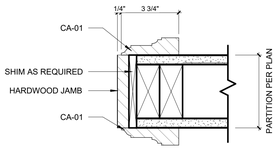
3 CO-3 JAMB/ HEAD
3" = 1'-0"



2 CO-2 JAMB/HEAD
3" = 1'-0"



5 CO-5 JAMB/ HEAD
3" = 1'-0"



1 CO-1 JAMB/ HEAD
3" = 1'-0"

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CASED OPENING SCHEDULE & DETAILS
Sheet No.
A6.52

Project Name
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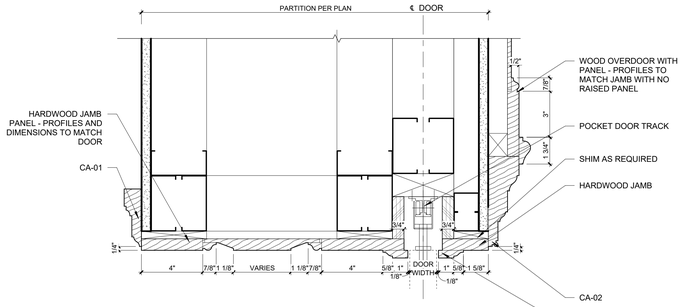
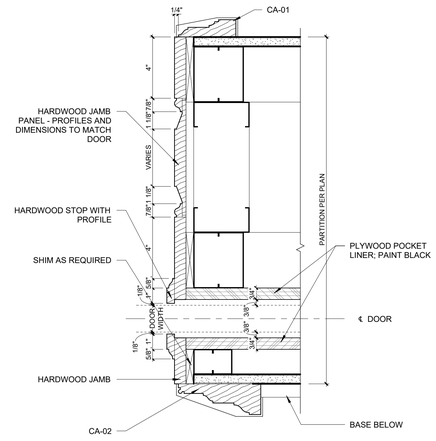
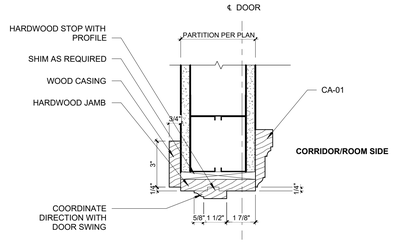


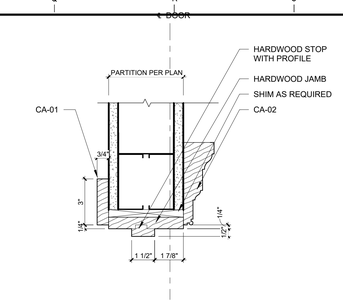
16 FRAME TYPE WD-8 HEAD DETAIL
3" = 1'-0"



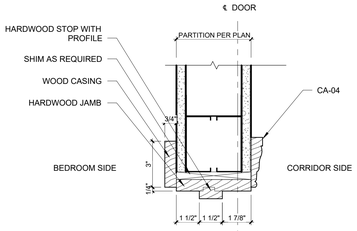
15 FRAME TYPE WD-8 JAMB DETAIL
3" = 1'-0"



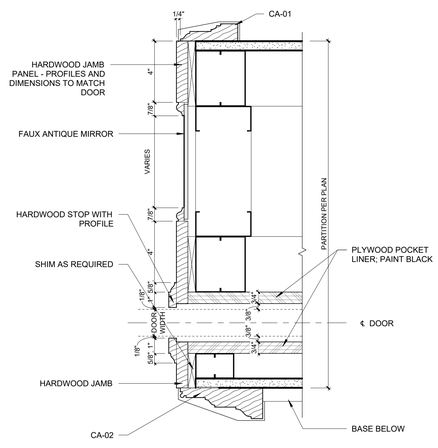
11 FRAME TYPE WD-5 HEAD DETAIL
3" = 1'-0"



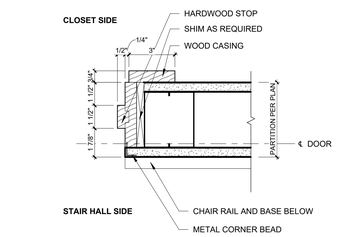
6 FRAME TYPE WD-3 HEAD DETAIL
3" = 1'-0"



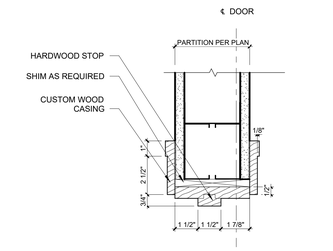
20 FRAME TYPE COM-1 HEAD DETAIL
3" = 1'-0"



14 FRAME TYPE WD-7 UPPER JAMB DETAIL
3" = 1'-0"

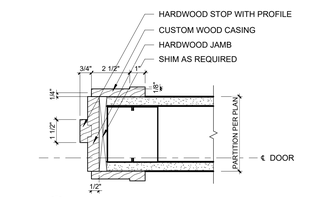


10 FRAME TYPE WD-5 JAMB DETAIL
3" = 1'-0"

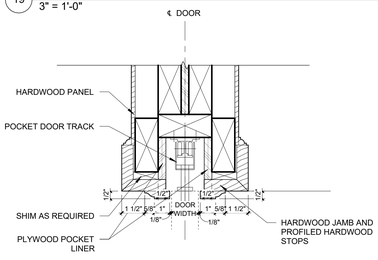


4 FRAME TYPE WD-2 HEAD DETAIL
3" = 1'-0"

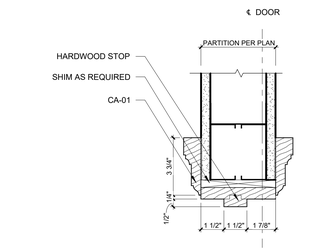
9 FRAME TYPE WD-4 JAMB STRIKE DETAIL
3" = 1'-0"



3 FRAME TYPE WD-2 JAMB DETAIL
3" = 1'-0"



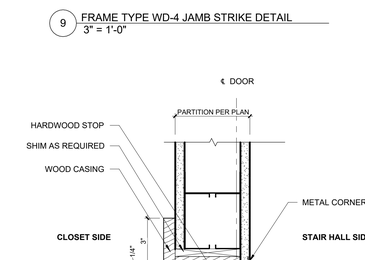
22 FRAME TYPE COM-2 HEAD DETAIL
3" = 1'-0"



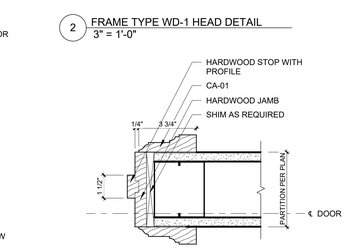
8 FRAME TYPE WD-4 HEAD DETAIL
3" = 1'-0"

2 FRAME TYPE WD-1 HEAD DETAIL
3" = 1'-0"

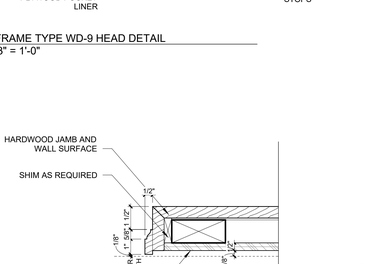
18 FRAME TYPE WD-9 HEAD DETAIL
3" = 1'-0"



13 FRAME TYPE WD-6 HEAD DETAIL
3" = 1'-0"



7 FRAME TYPE WD-4 JAMB HINGE DETAIL
3" = 1'-0"



21 FRAME TYPE COM-1 JAMB DETAIL
3" = 1'-0"

17 FRAME TYPE WD-9 JAMB DETAIL
3" = 1'-0"

12 FRAME TYPE WD-6 JAMB DETAIL
3" = 1'-0"

9 FRAME TYPE WD-4 JAMB STRIKE DETAIL
3" = 1'-0"

8 FRAME TYPE WD-4 HEAD DETAIL
3" = 1'-0"

7 FRAME TYPE WD-4 JAMB HINGE DETAIL
3" = 1'-0"

1 FRAME TYPE WD-1 JAMB DETAIL
3" = 1'-0"

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Date 12.18.2025

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TYP INT DOOR AND FRAME DETAILS

Sheet No.

A6.53

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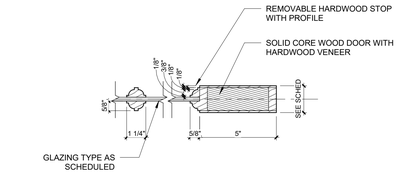
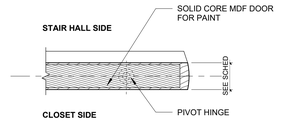
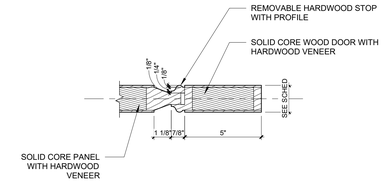


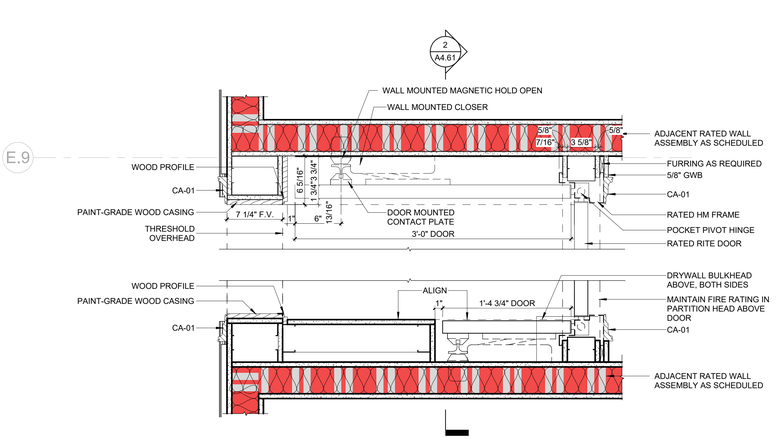
5 WOOD DOOR - STILE DETAIL AT CLEAR GLAZED LITE
3" = 1'-0"



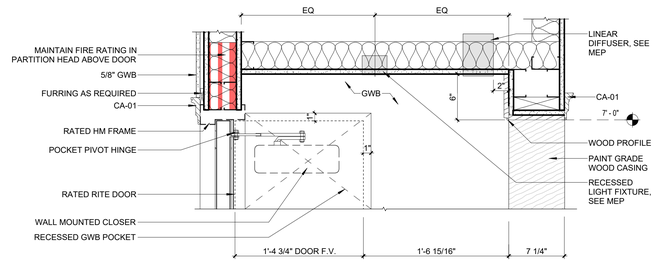
4 WOOD DOOR - STILE DETAIL AT JIB DOOR
3" = 1'-0"



3 WOOD DOOR - STILE DETAIL AT RAISED PANEL
3" = 1'-0"



2 UNEVEN DOOR POCKET JAMB, TYPICAL
1 1/2" = 1'-0"



1 UNEVEN DOOR POCKET HEAD - SMALL LEAF, TYPICAL
1 1/2" = 1'-0"

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INT DOOR AND FRAME DETAILS

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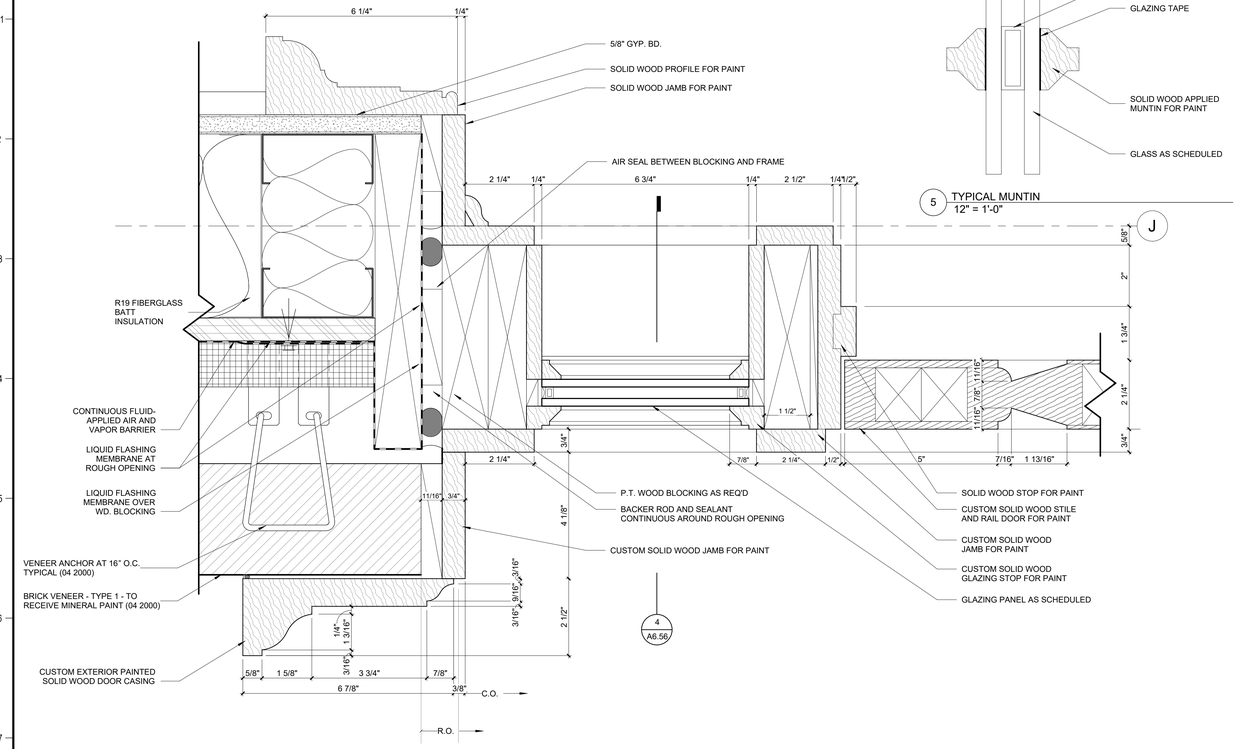
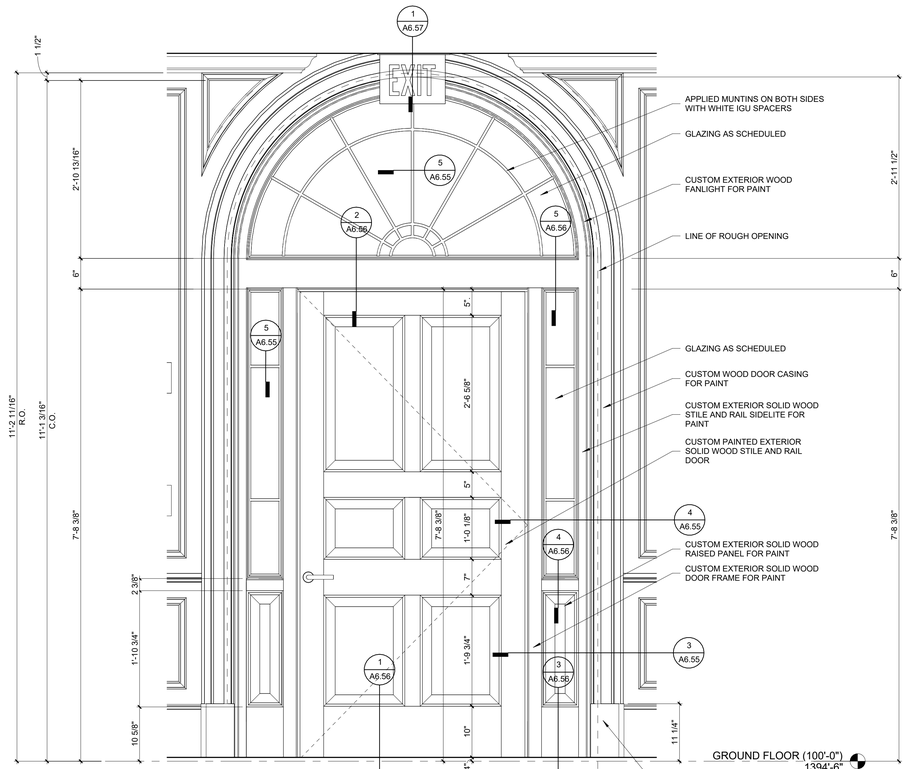
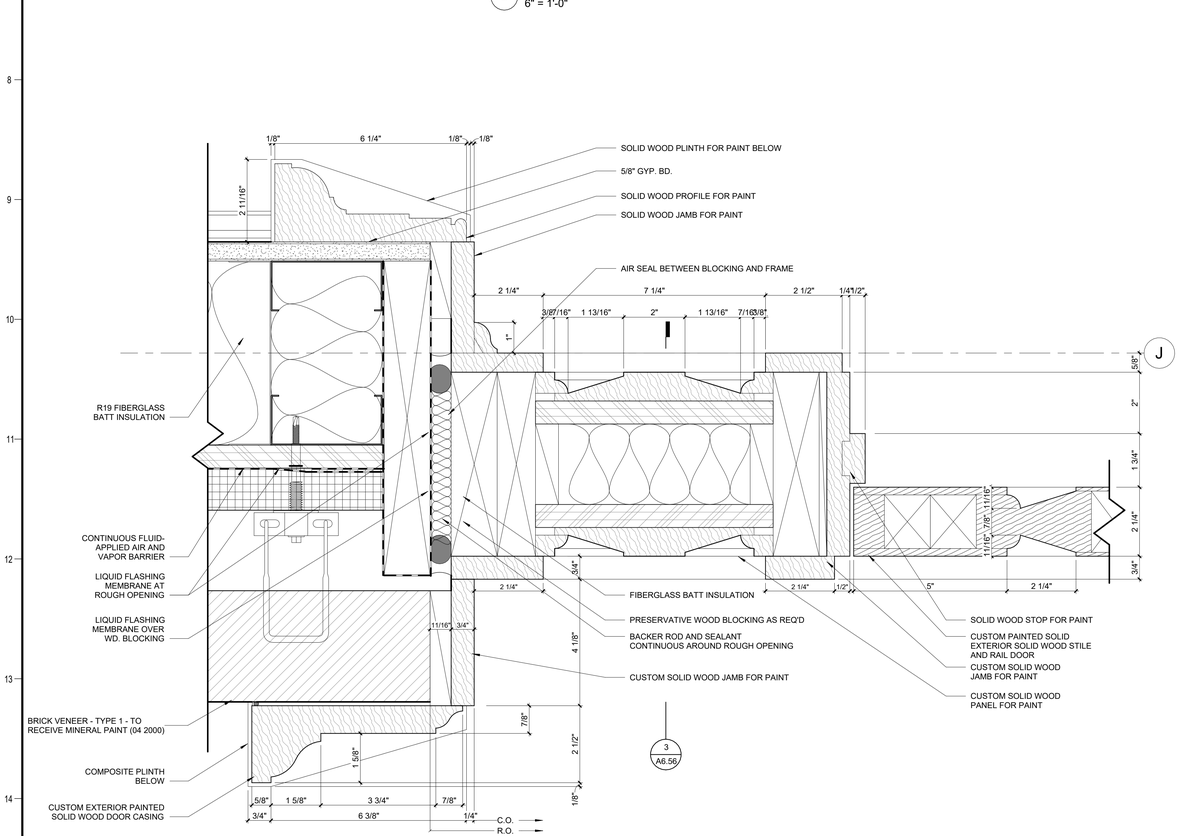


4 DOOR 100.1 - JAMB DETAIL AT SIDELIGHT
6" = 1'-0"

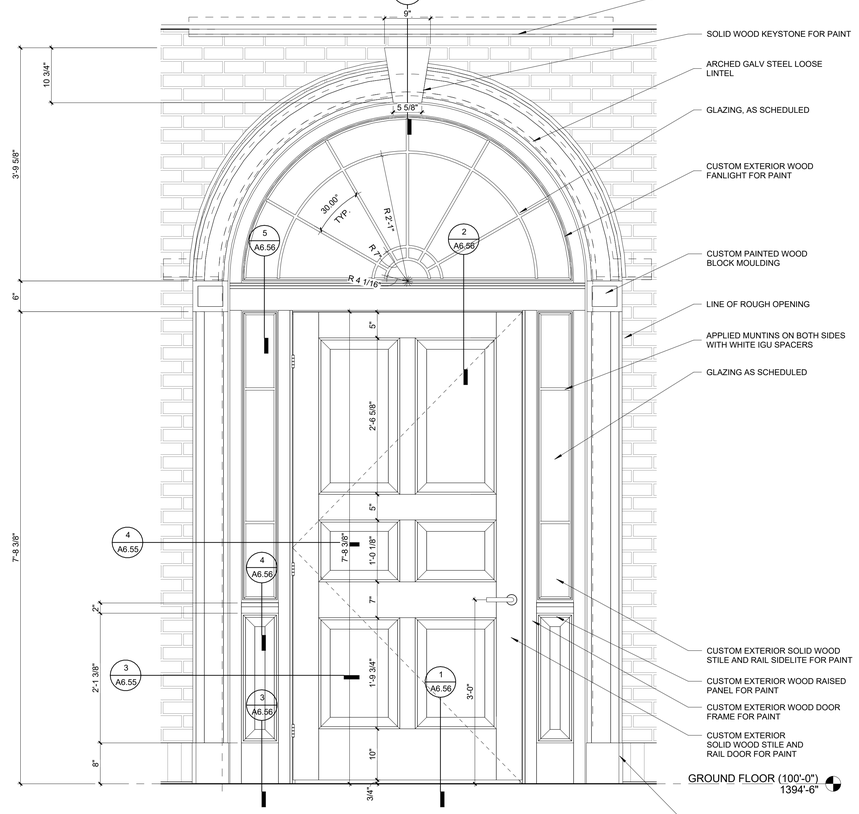
5 TYPICAL MUNTIN
12" = 1'-0"



2 DOOR 100.1 - INTERIOR ELEVATION
1" = 1'-0"



3 DOOR 100.1 - JAMB DETAIL AT SIDE PANEL
6" = 1'-0"



1 DOOR 100.1 - EXTERIOR ELEVATION
1" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

EXTERIOR DOOR AND FRAME DETAILS

Sheet No.

A6.55

Project Name
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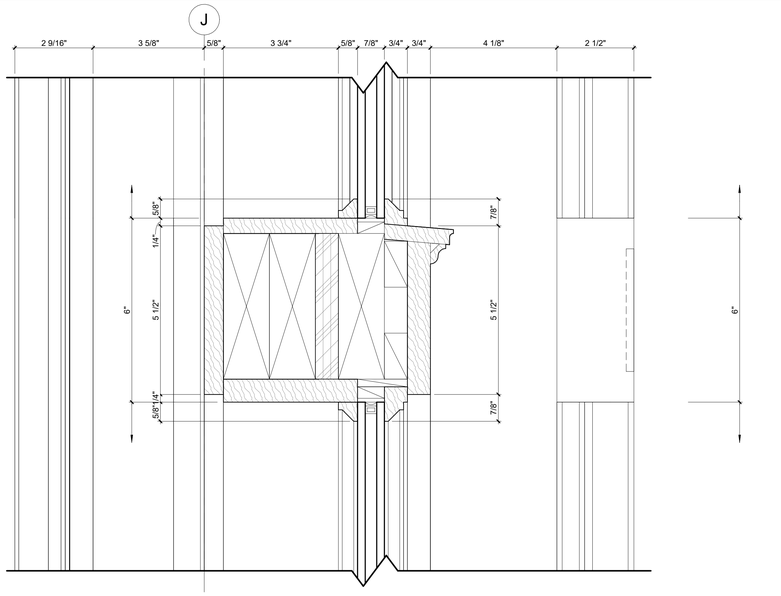
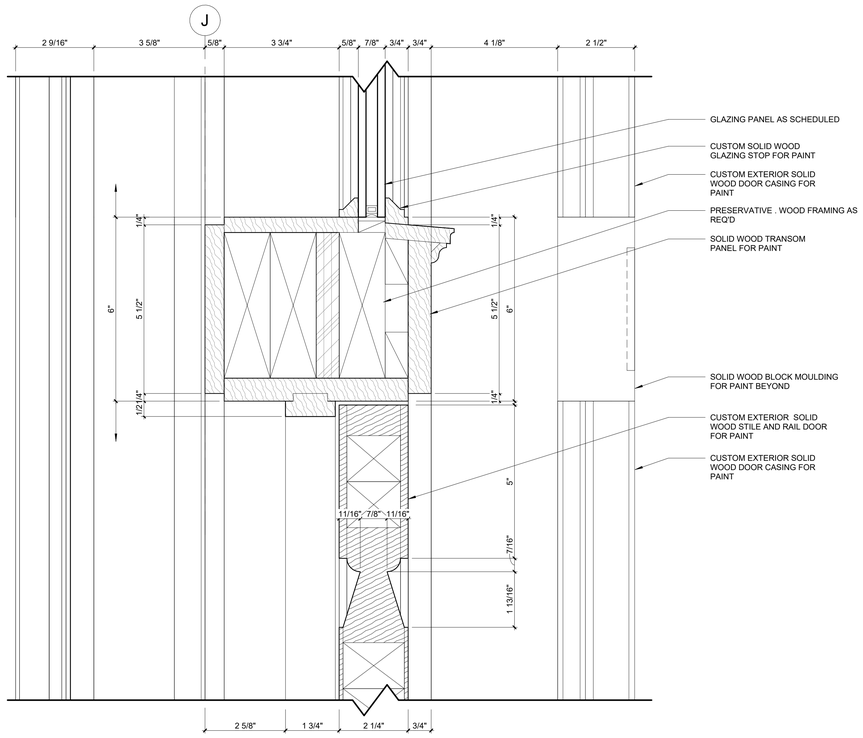
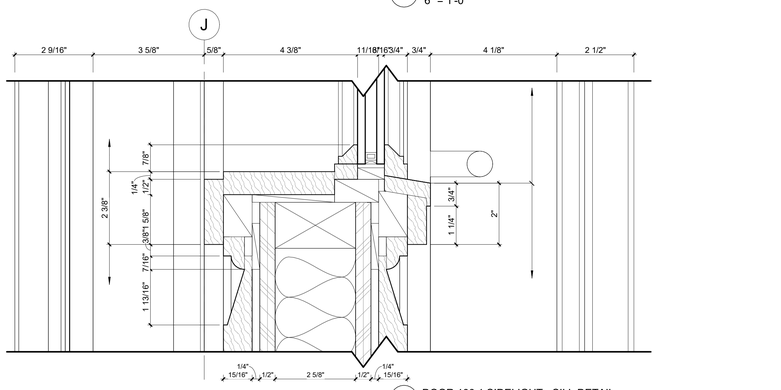


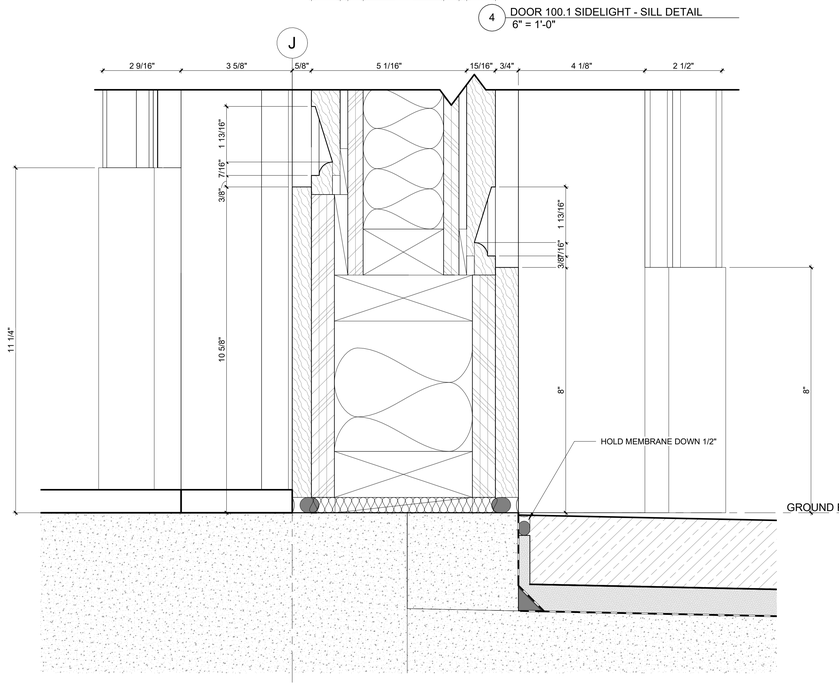
5 DOOR 100.1 SIDELIGHT - HEAD DETAIL
6" = 1'-0"



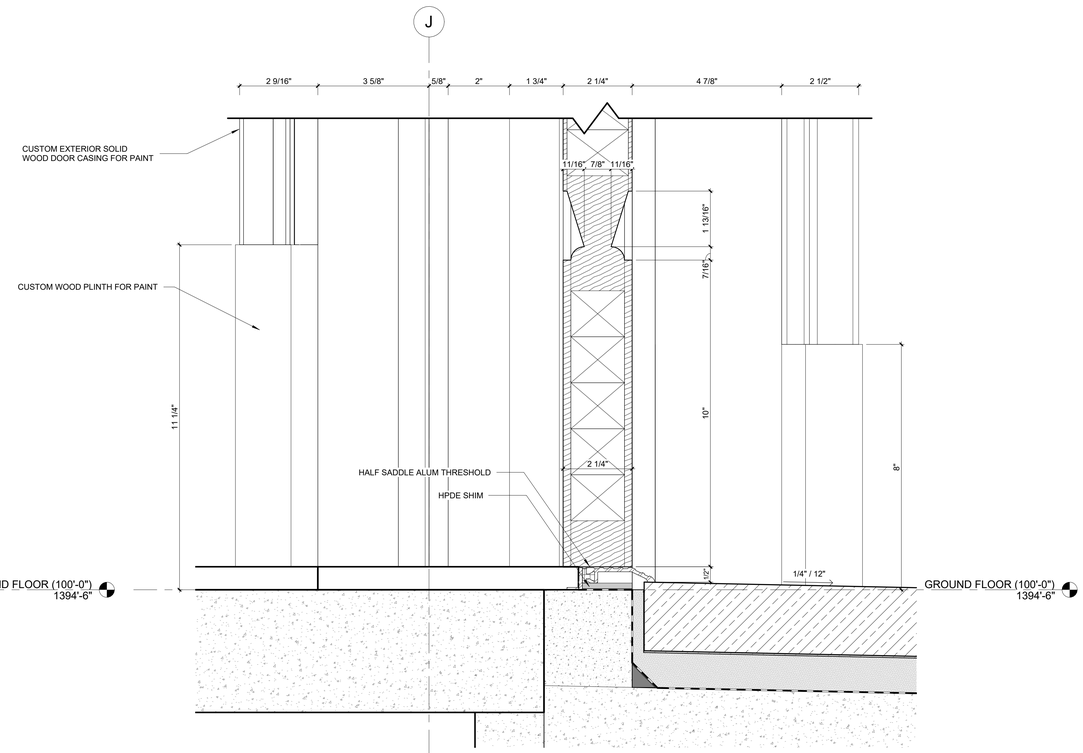
2 DOOR 100.1 - HEAD DETAIL
6" = 1'-0"



4 DOOR 100.1 SIDELIGHT - SILL DETAIL
6" = 1'-0"



3 DOOR 100.1 SIDE PANEL - SILL DETAIL
6" = 1'-0"



1 DOOR 100.1 - SILL DETAIL
6" = 1'-0"

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EXTERIOR DOOR AND FRAME DETAILS

Sheet No.
A6.56

Project Name
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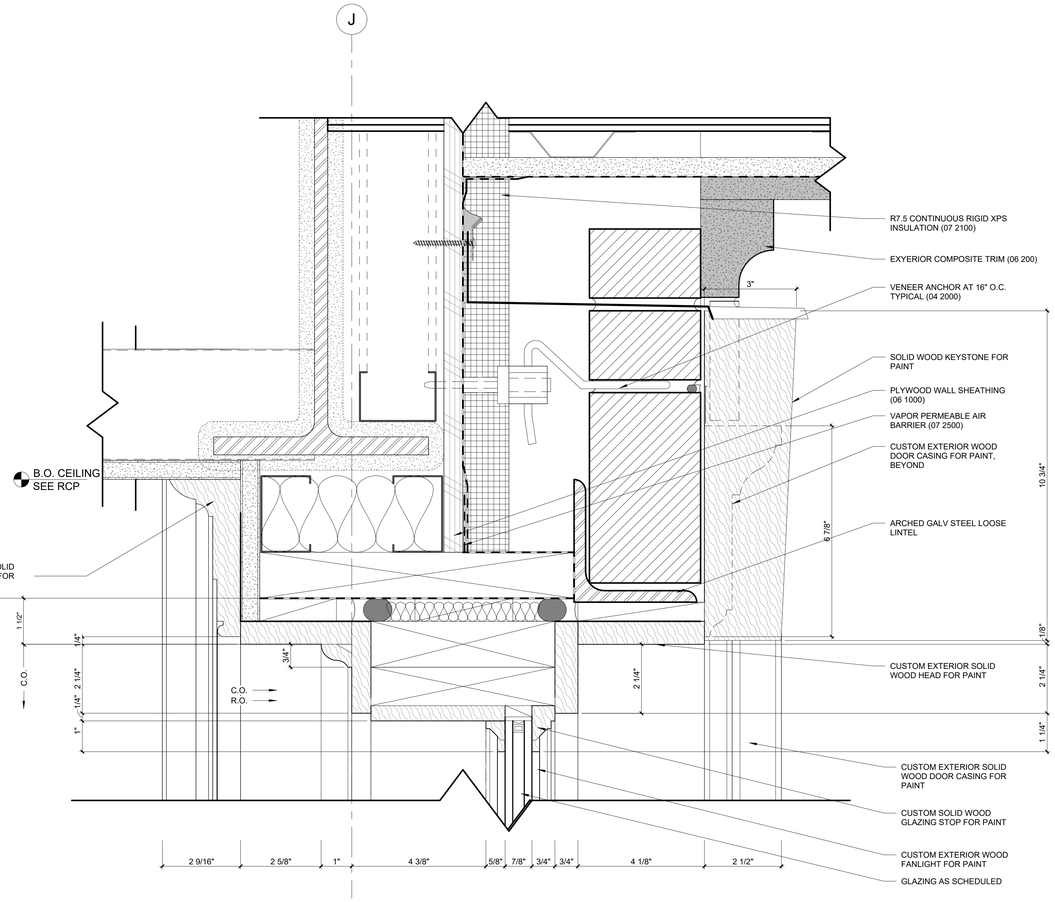

1 DOOR 100.1 FANLIGHT - HEAD DETAIL AT KEYSTONE
6" = 1'-0"

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Sheet No.
A6.57

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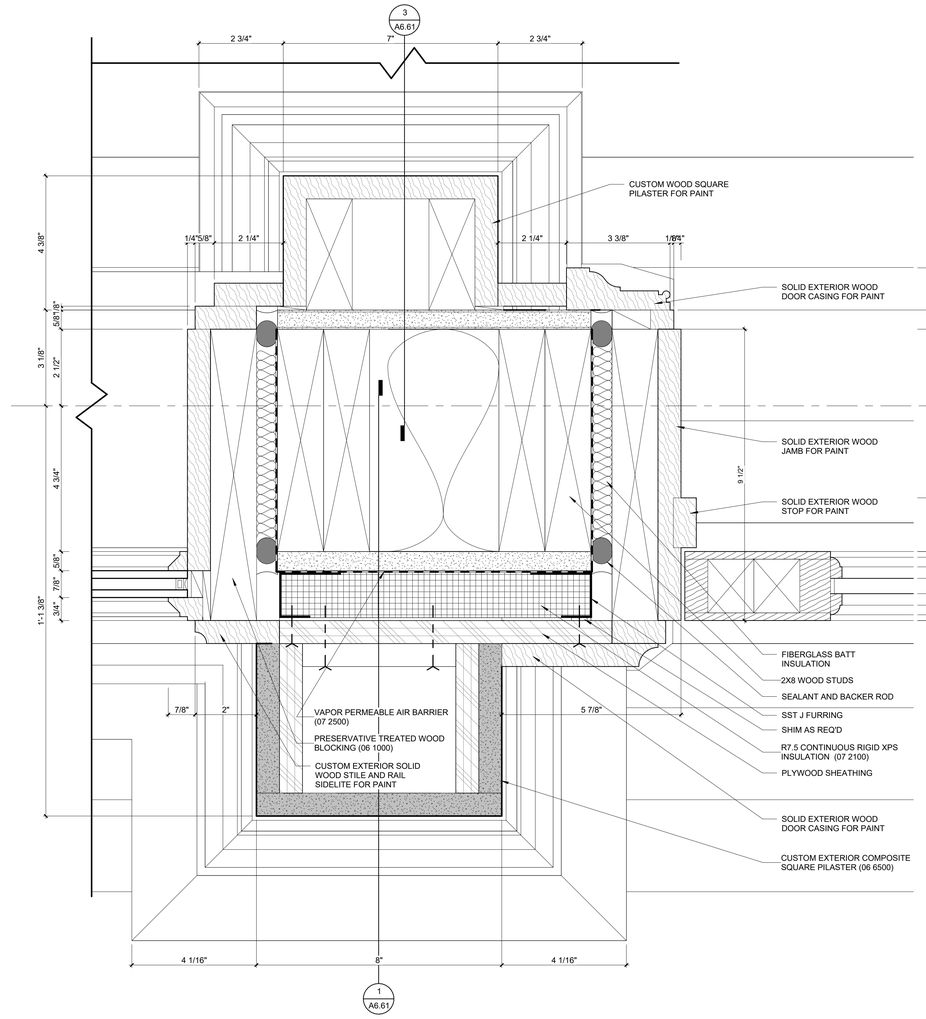
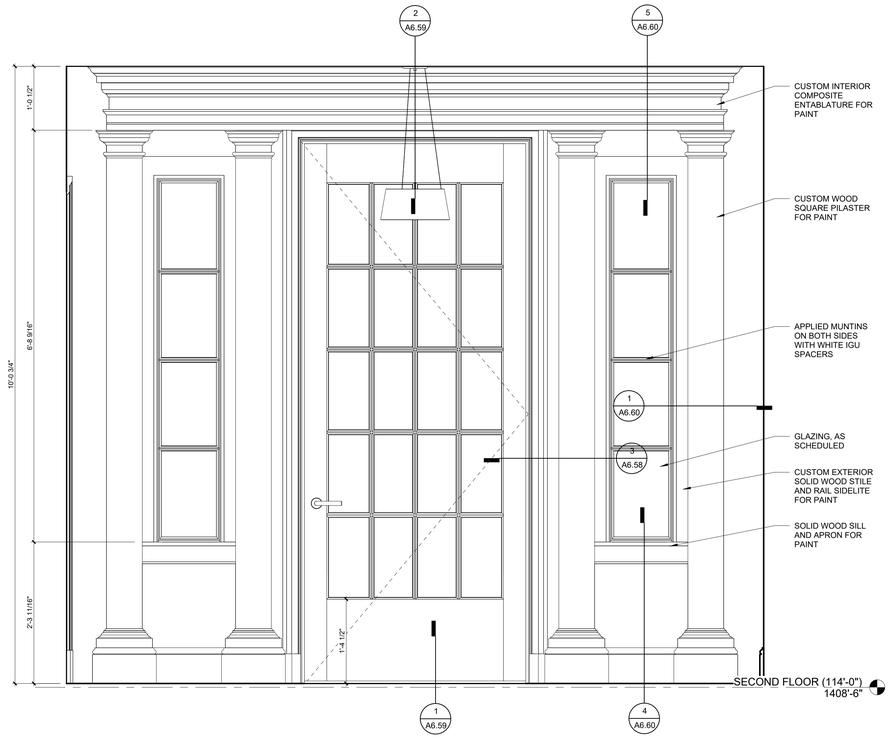
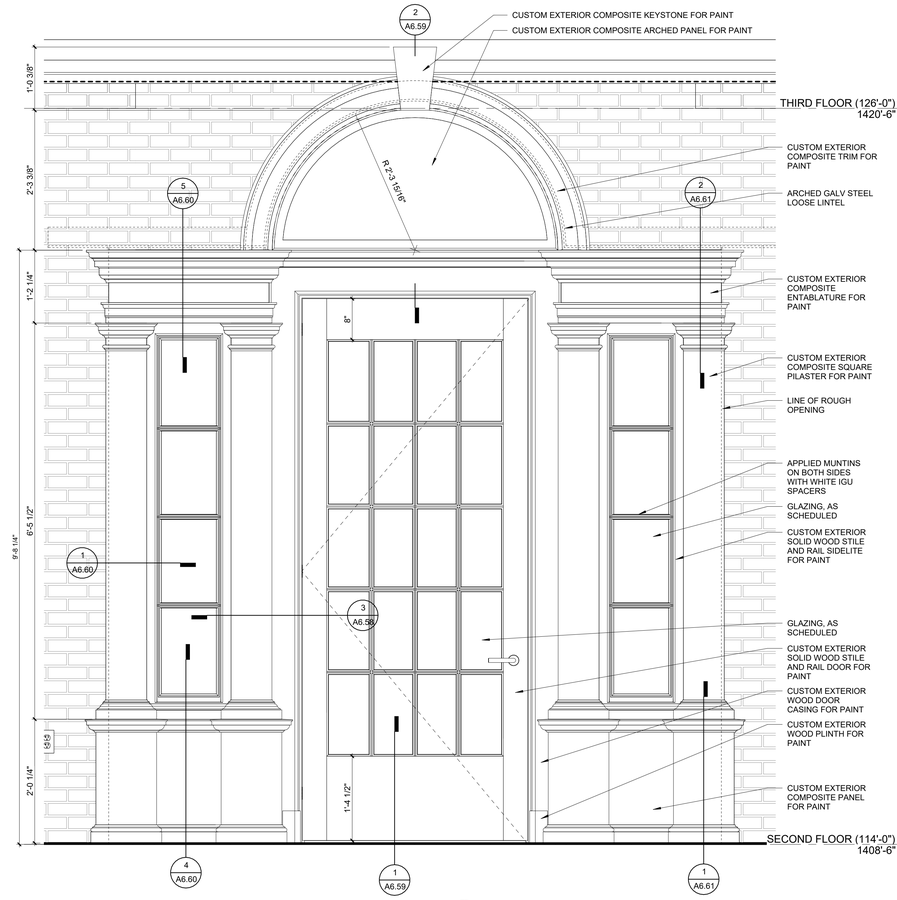


3 DOOR 201.1 - JAMB DETAIL
6" = 1'-0"



2 DOOR 201.1 - INTERIOR ELEVATION
1" = 1'-0"



1 DOOR 201.1 - EXTERIOR ELEVATION
1" = 1'-0"

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EXTERIOR DOOR AND FRAME DETAILS

Sheet No.
A6.58

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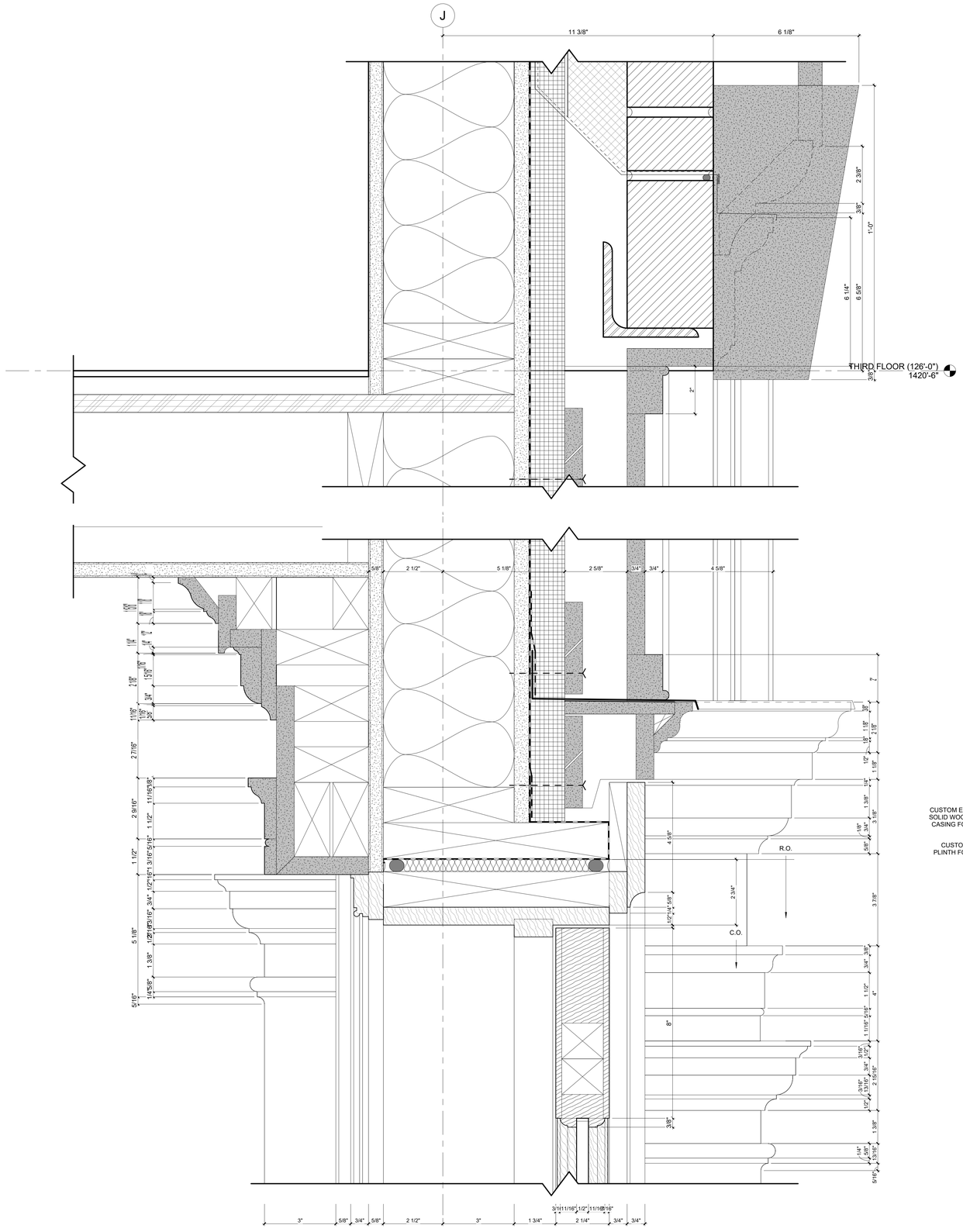
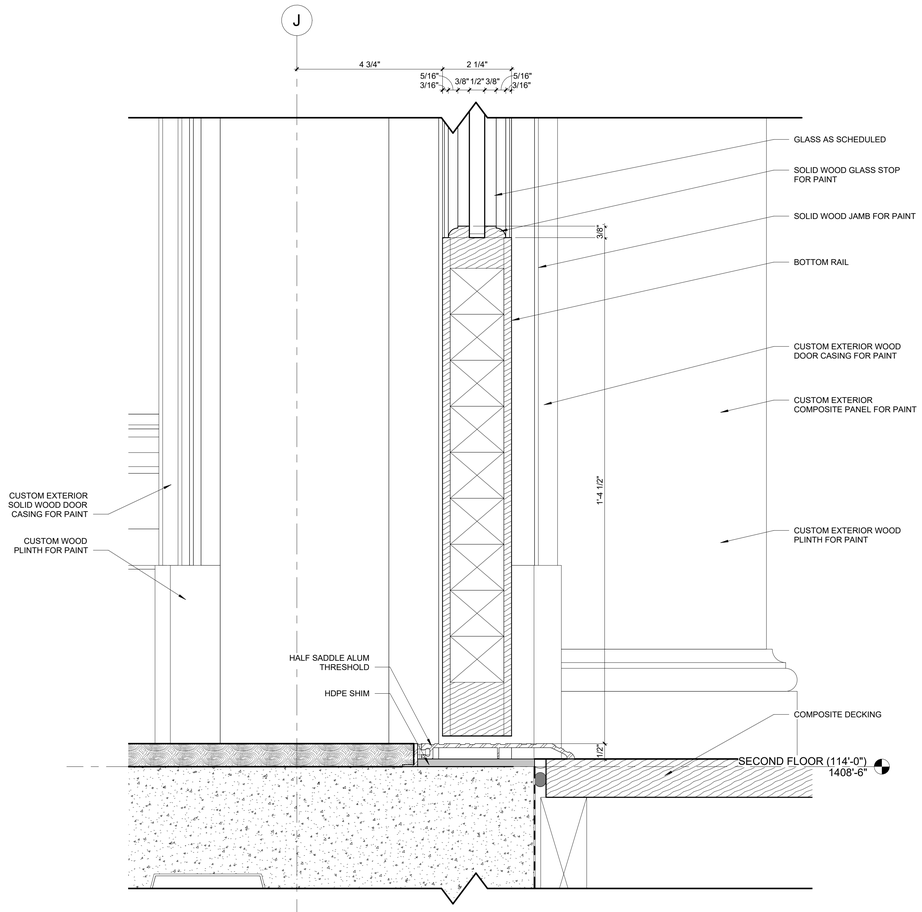


2 DOOR 201.1 - HEAD DETAIL
6" = 1'-0"



1 DOOR 201.1 - SILL DETAIL
6" = 1'-0"

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A6.59

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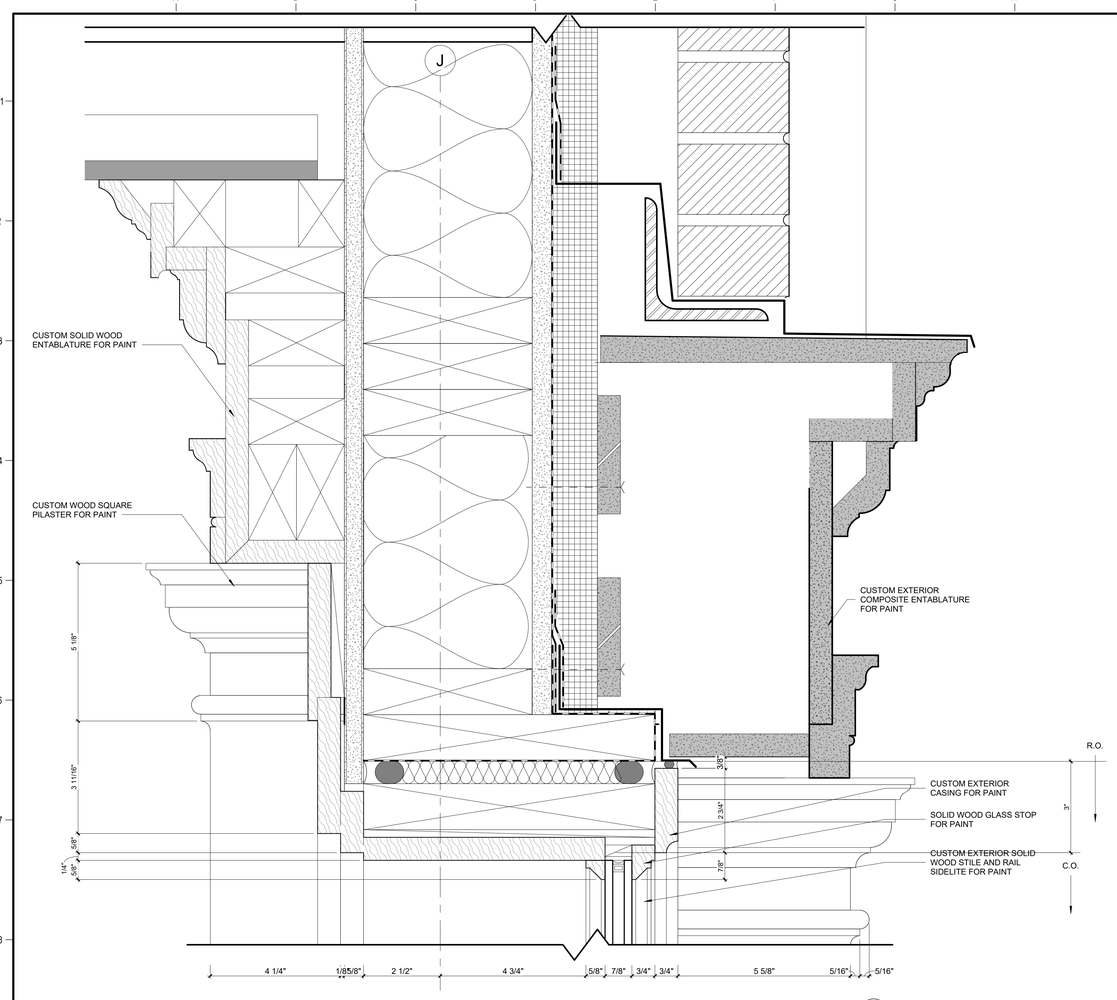
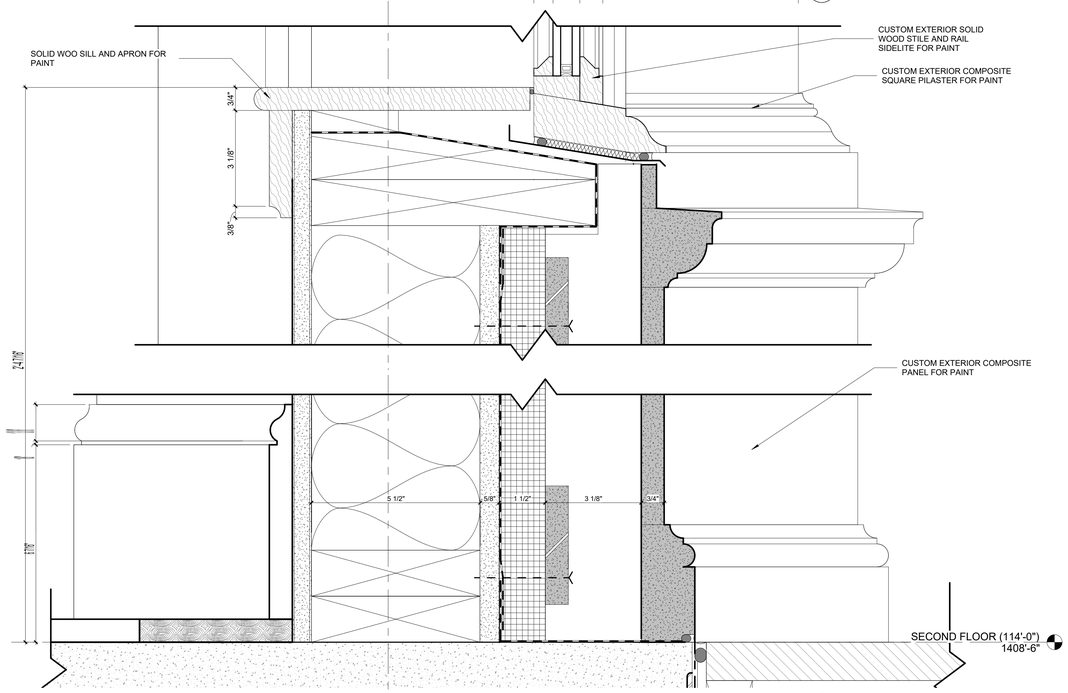
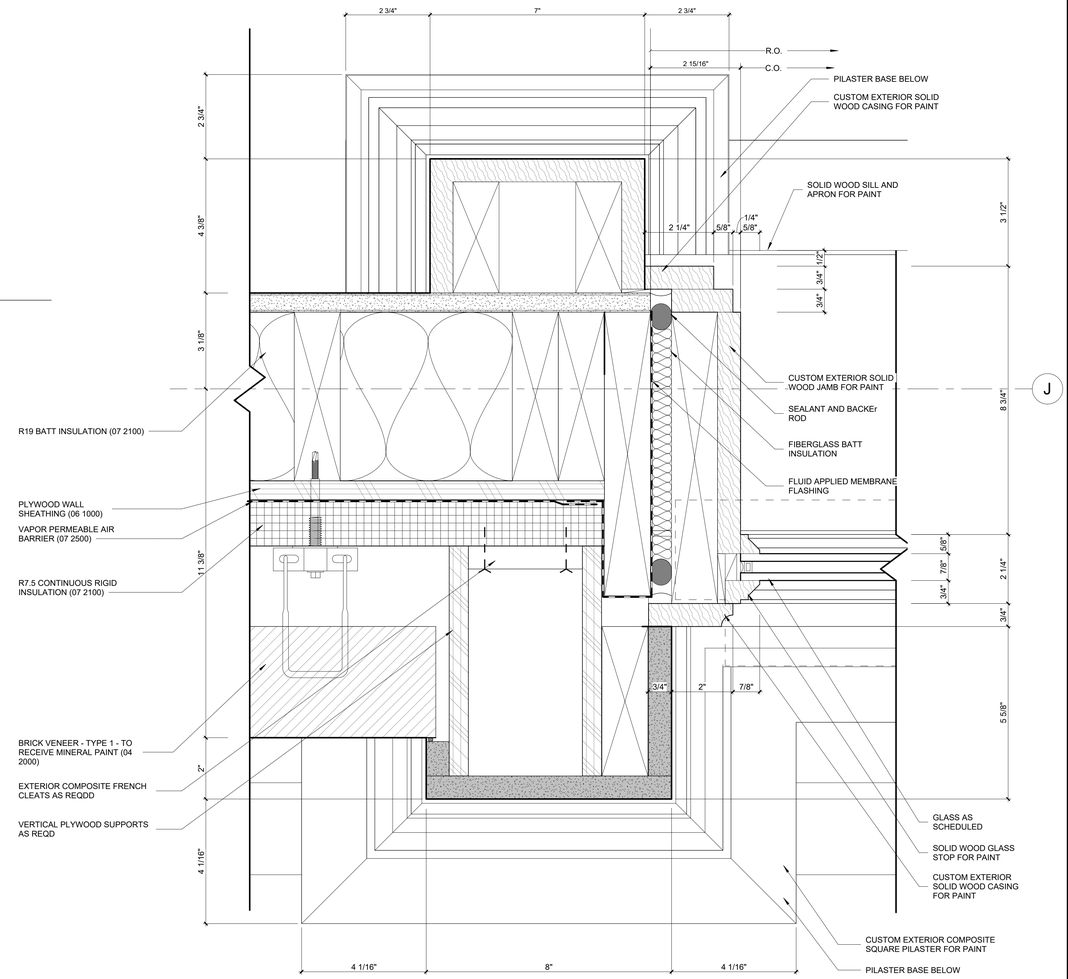


5 SOUTH PALLADIAN WINDOW - HEAD DETAIL
6" = 1'-0"



4 SOUTH PALLADIAN WINDOW - SILL DETAIL
6" = 1'-0"



1 SOUTH PALLADIAN WINDOW - JAMB DETAIL
6" = 1'-0"

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EXTERIOR DOOR AND FRAME DETAILS

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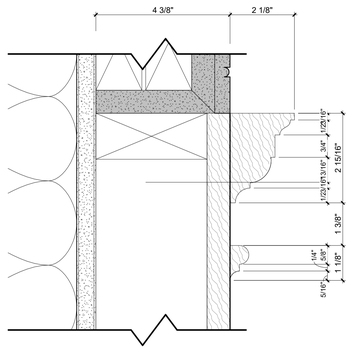
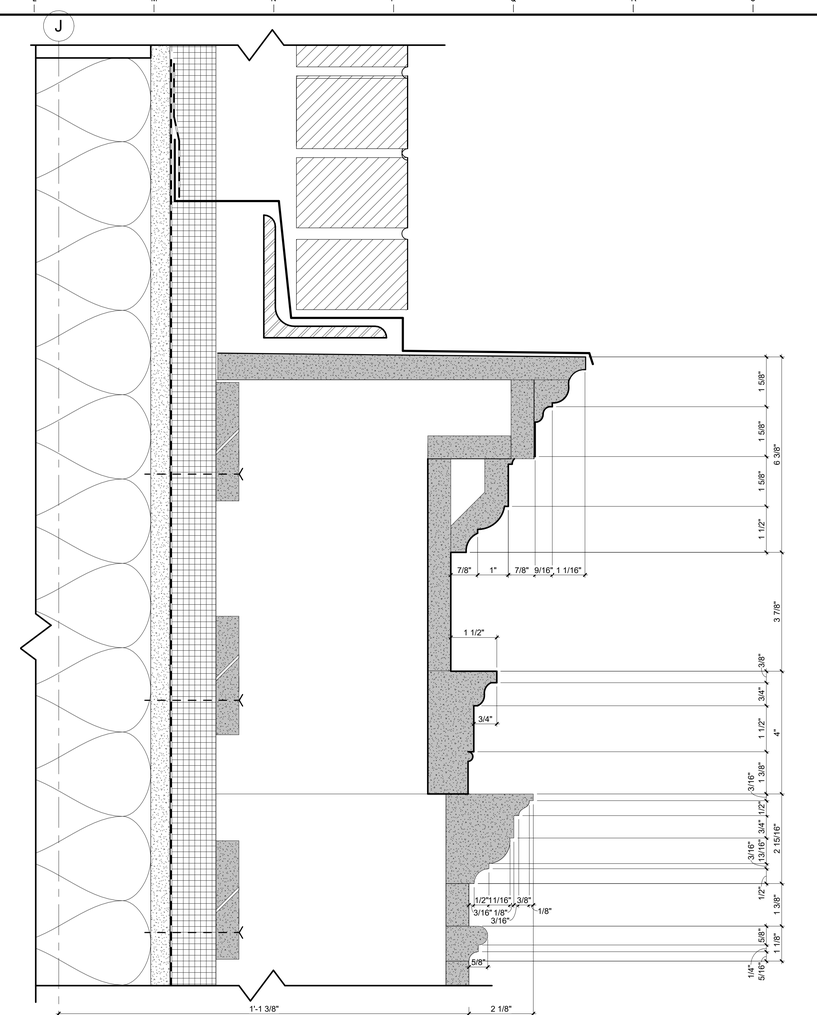
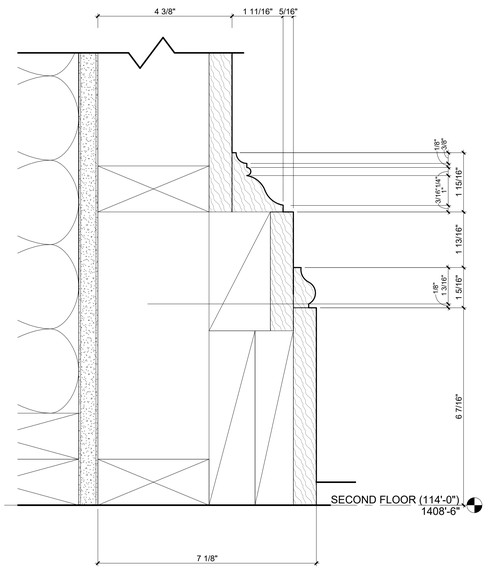
A6.60



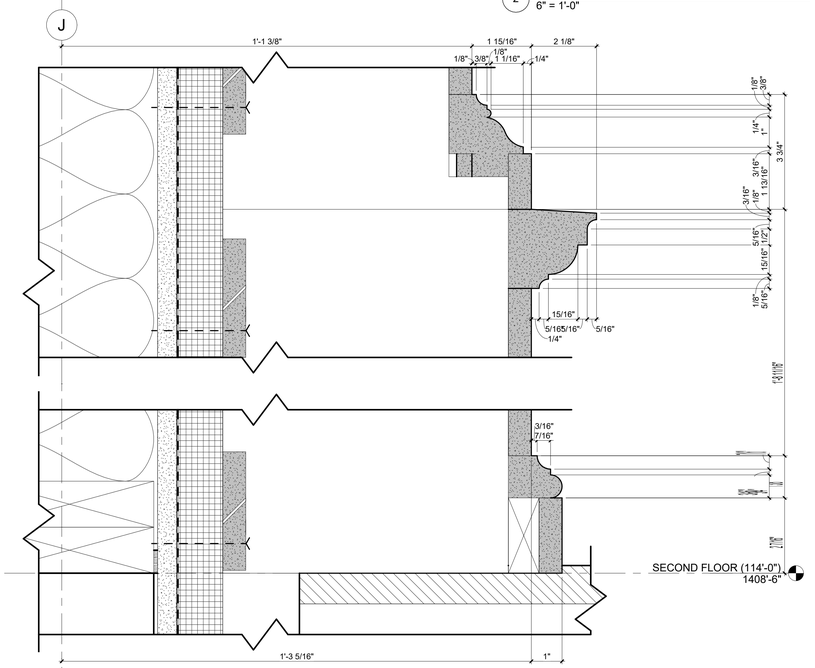
4 DOOR 200.1 - INTERIOR PILASTER / COLUMN CAPITAL DETAIL
6" = 1'-0"



2 DOOR 200.1 - EXTERIOR PILASTER CAPITAL DETAIL
6" = 1'-0"



3 DOOR 200.1 - INTERIOR PILASTER / COLUMN BASE DETAIL
6" = 1'-0"



1 DOOR 200.1 - EXTERIOR PILASTER BASE DETAIL
6" = 1'-0"

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Sheet No.
A6.61

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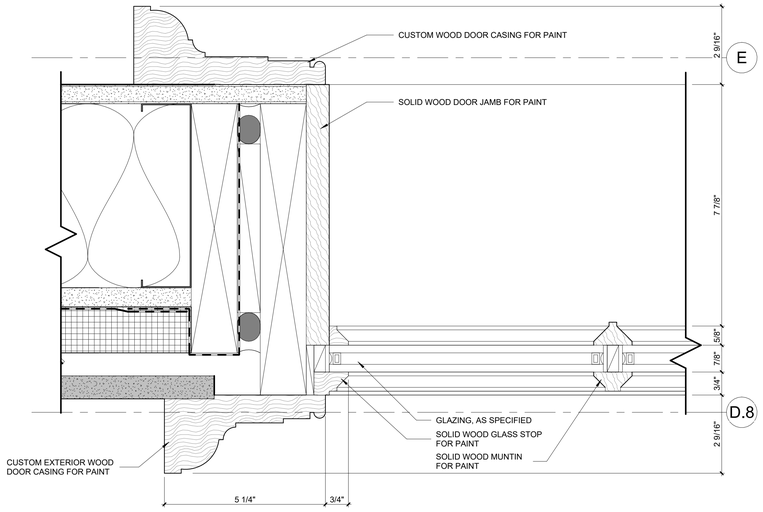
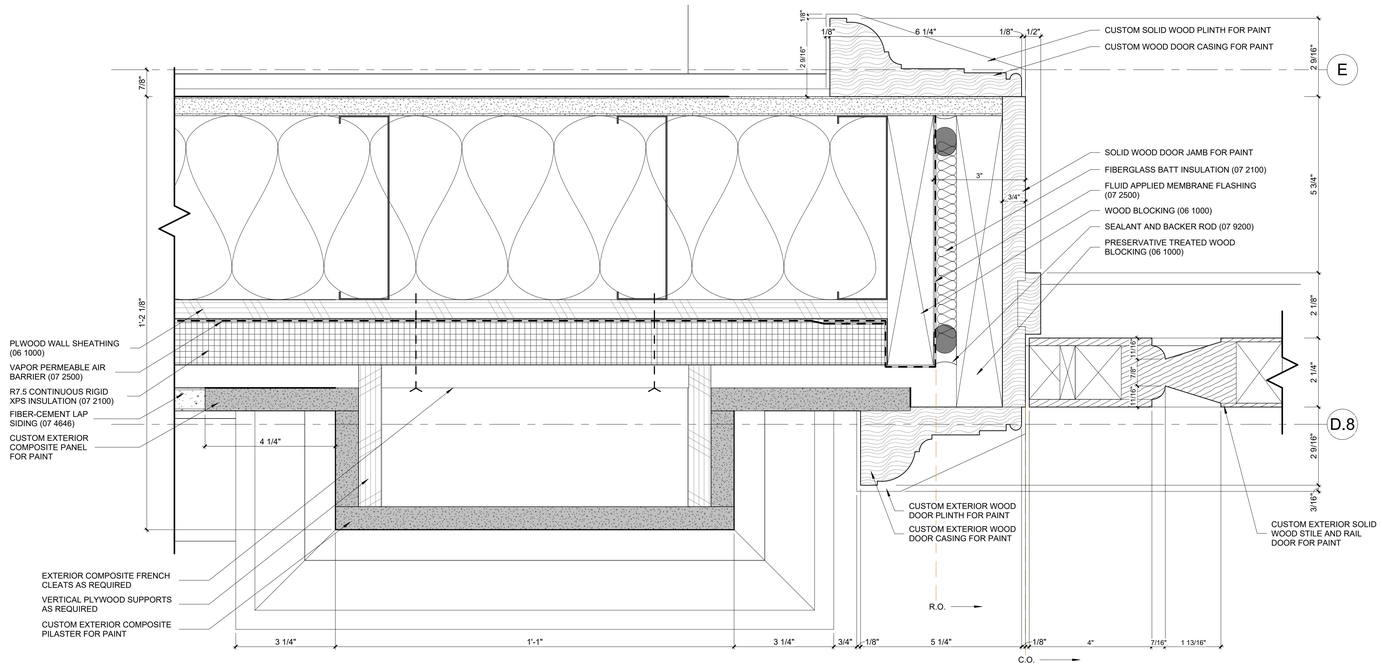
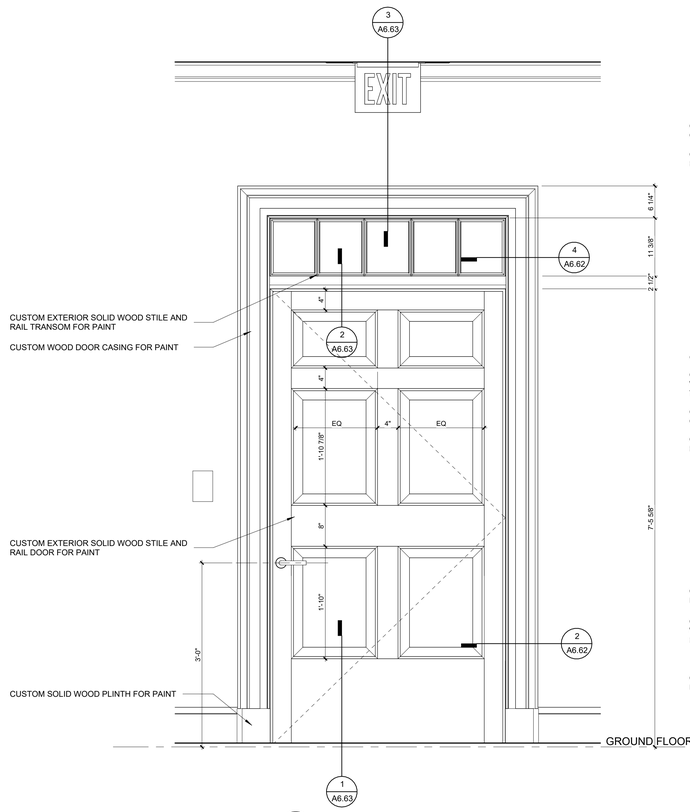


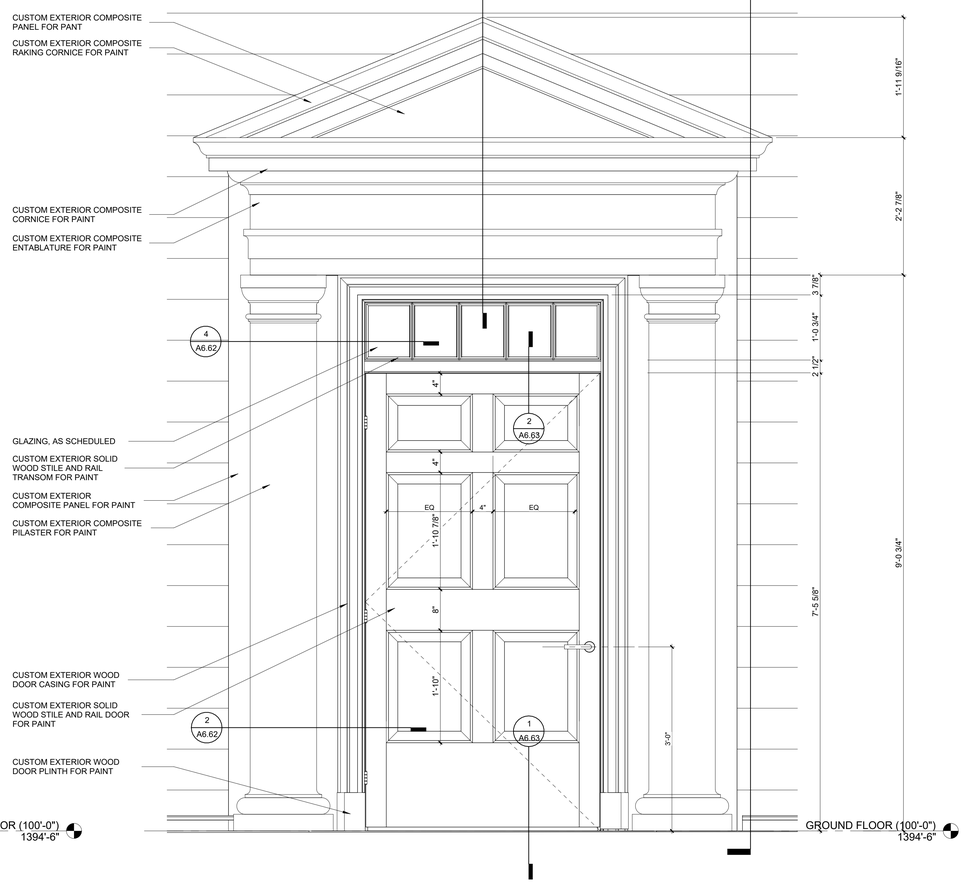
4 DOOR 103.1 - JAMB DETAIL AT TRANSOM
6" = 1'-0"



2 DOOR 103.1 - JAMB DETAIL AT SIDE PANEL
6" = 1'-0"



3 DOOR 103.1 - INTERIOR ELEVATION
1" = 1'-0"



1 DOOR 103.1 - EXTERIOR ELEVATION
1" = 1'-0"

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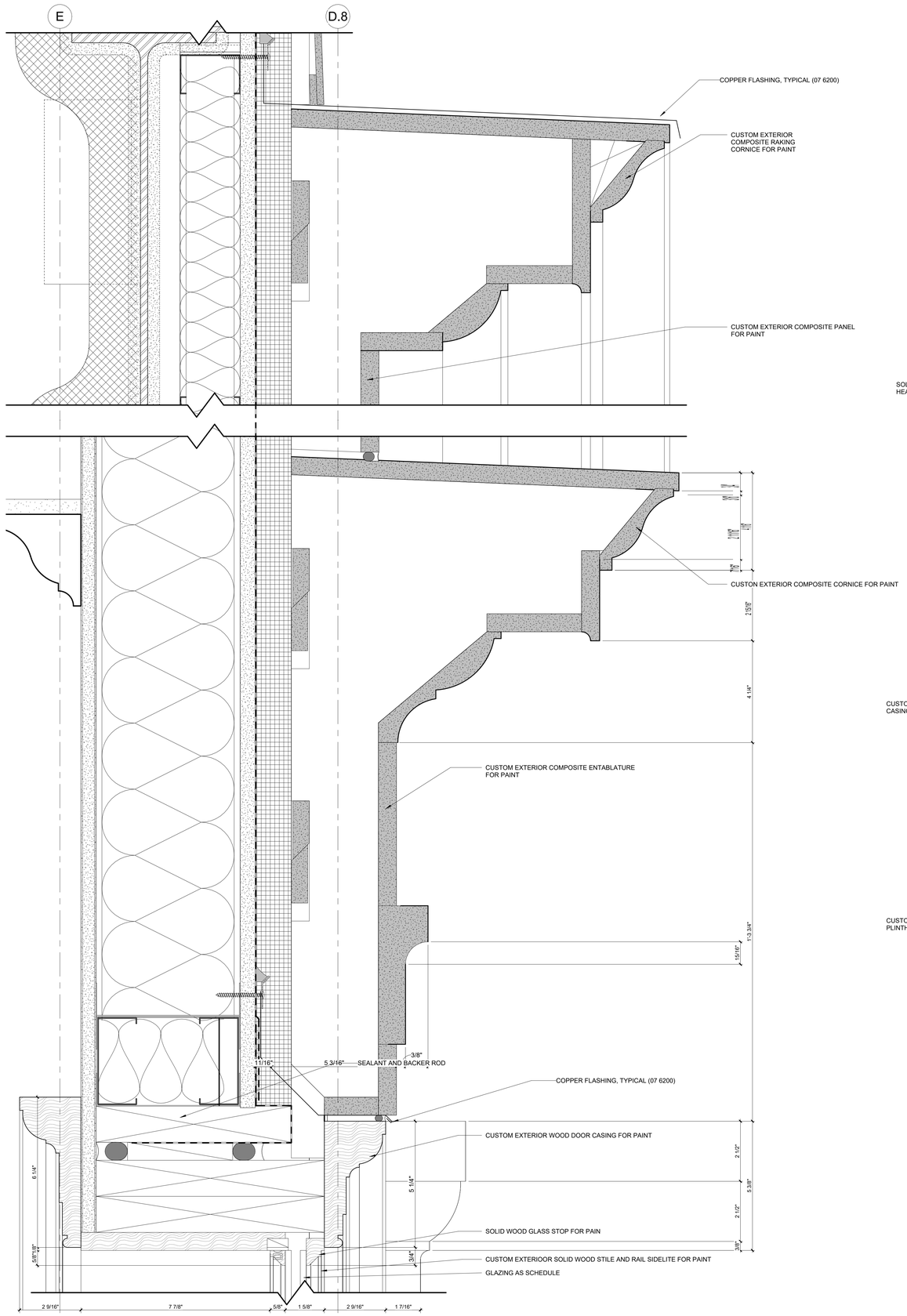
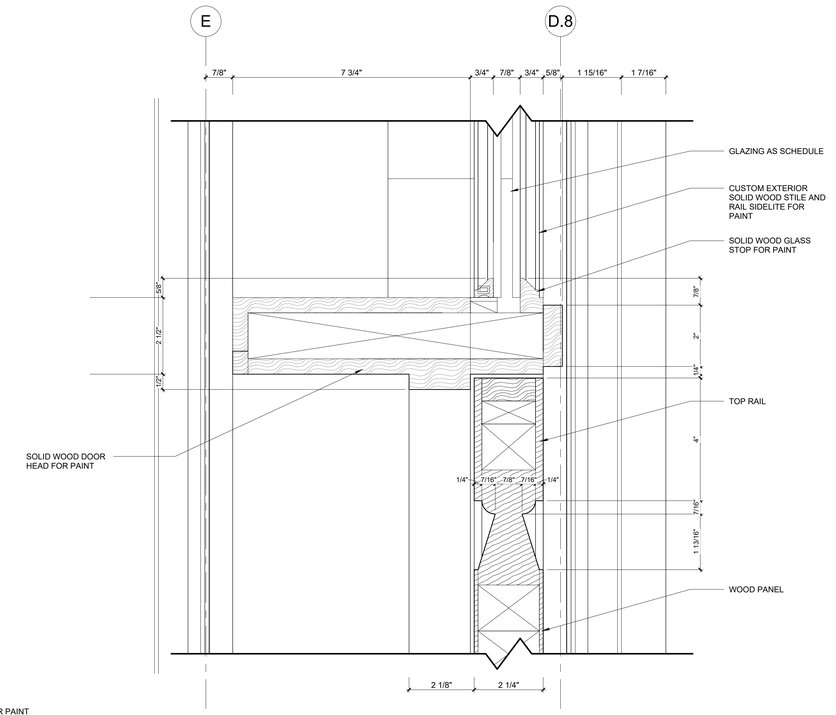
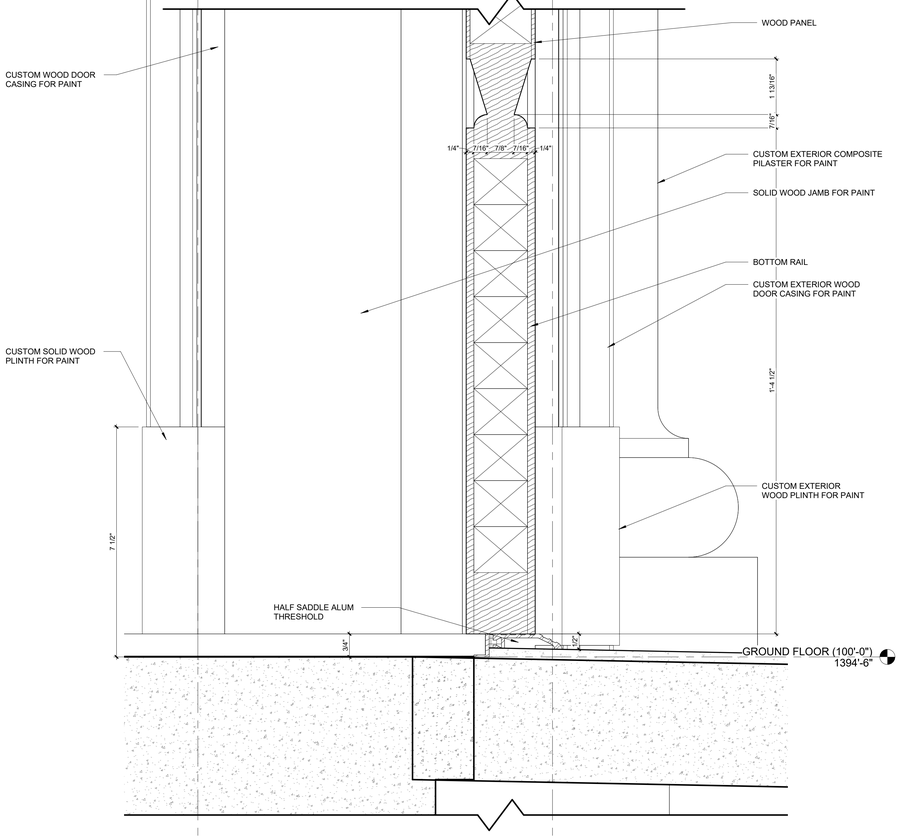


3 DOOR 102.1 TRANSOM - HEAD DETAIL AT KEYSTONE
6" = 1'-0"



2 DOOR 102.1 - HEAD DETAIL
6" = 1'-0"



1 DOOR 102.1 - SILL DETAIL
6" = 1'-0"

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EXTERIOR DOOR AND FRAME DETAILS

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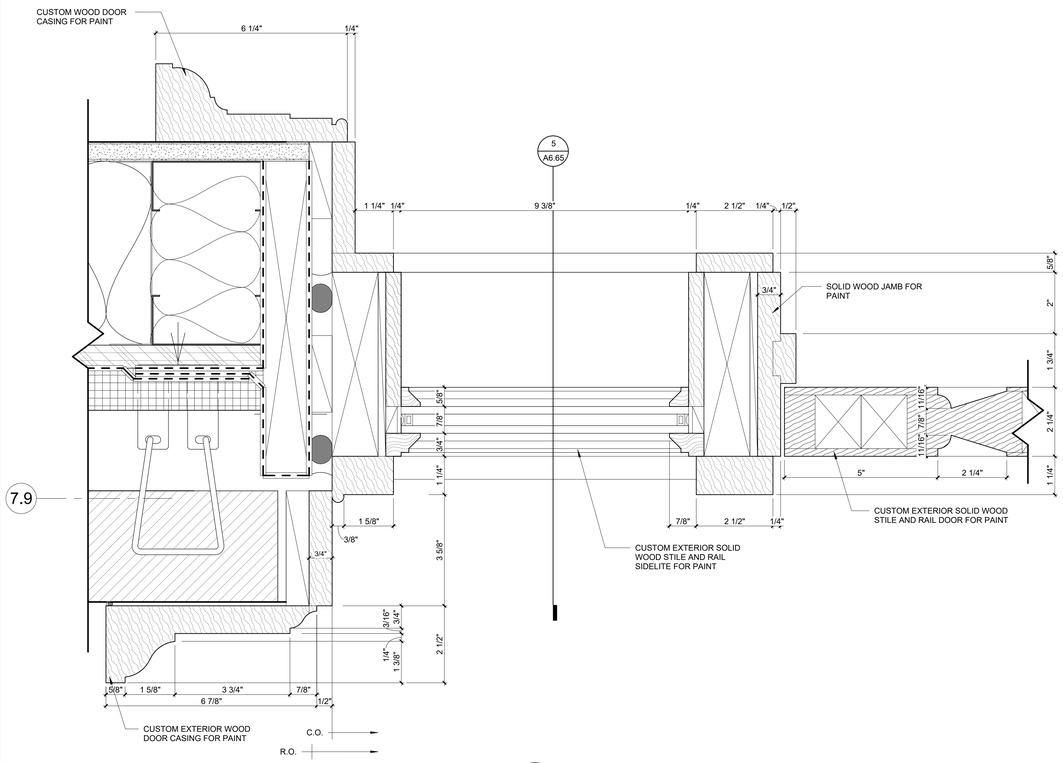
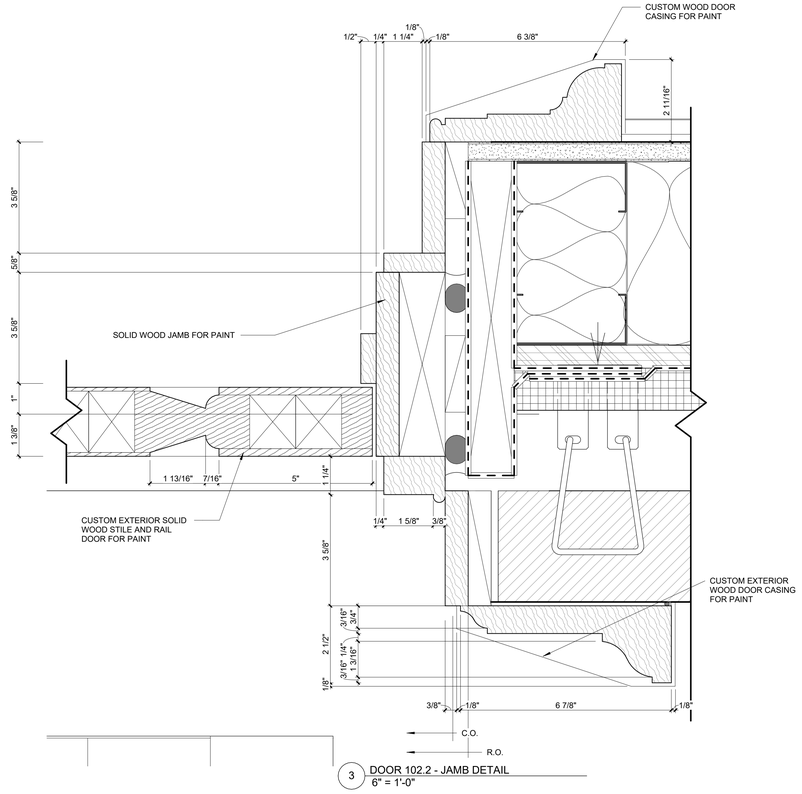
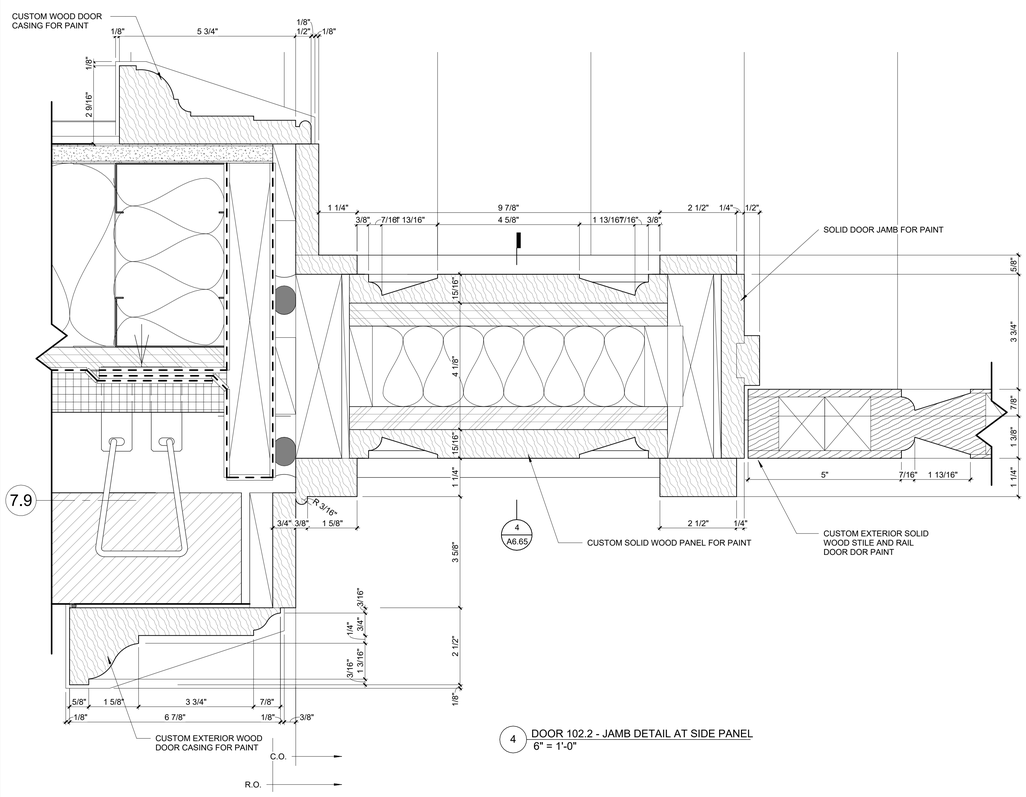
A6.63



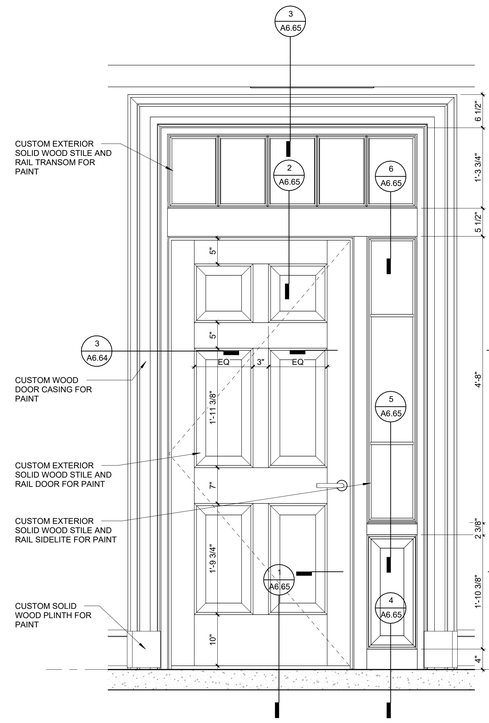
5 DOOR 102.2 - JAMB DETAIL AT SIDELIGHT
6" = 1'-0"



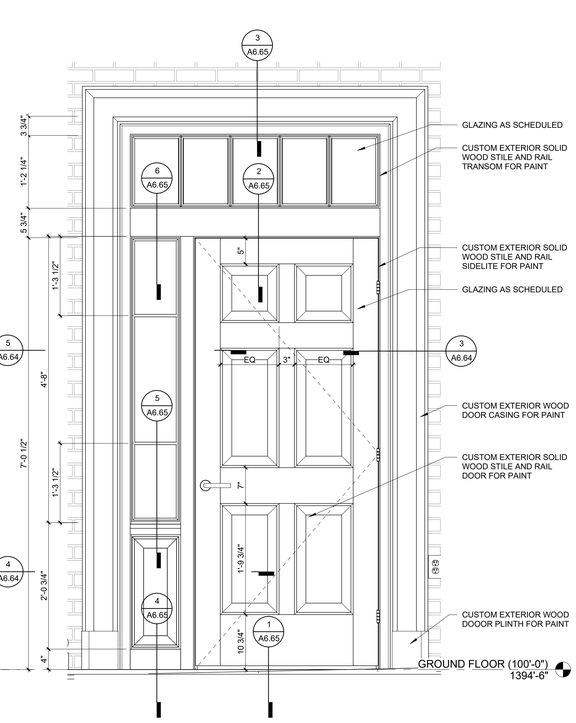
3 DOOR 102.2 - JAMB DETAIL
6" = 1'-0"



4 DOOR 102.2 - JAMB DETAIL AT SIDE PANEL
6" = 1'-0"



2 DOOR 102.2 - INTERIOR ELEVATION
1" = 1'-0"



1 DOOR 102.2 - EXTERIOR ELEVATION
1" = 1'-0"

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EXTERIOR DOOR AND FRAME DETAILS

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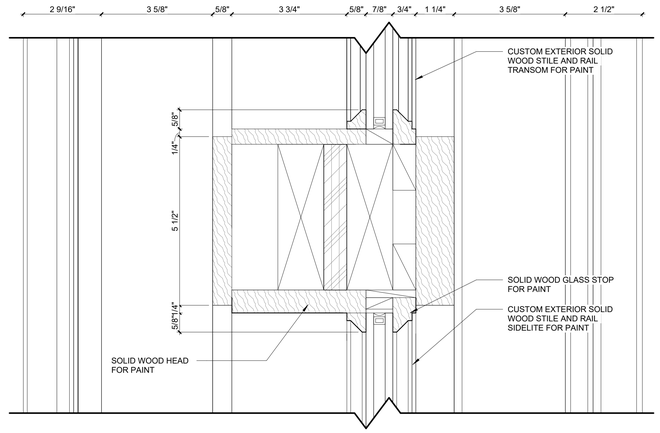
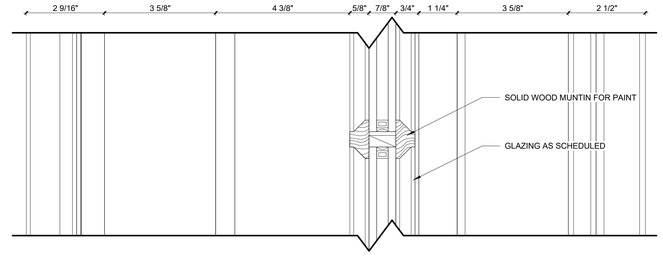
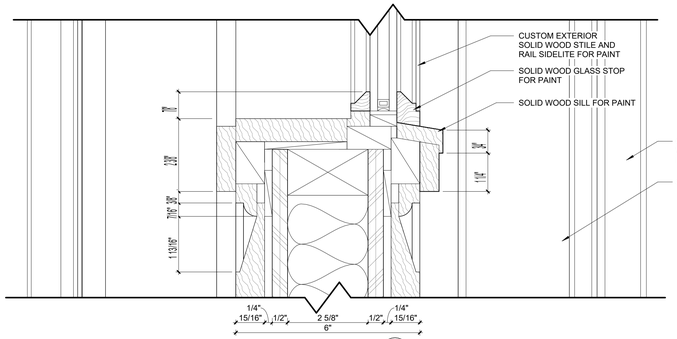
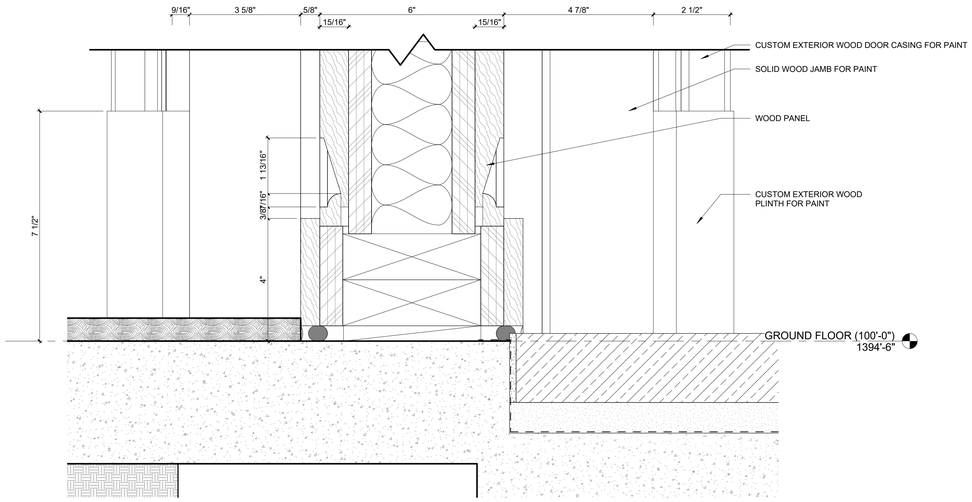


6 DOOR 114.1 - SIDELIGHT HEAD DETAIL
6" = 1'-0"

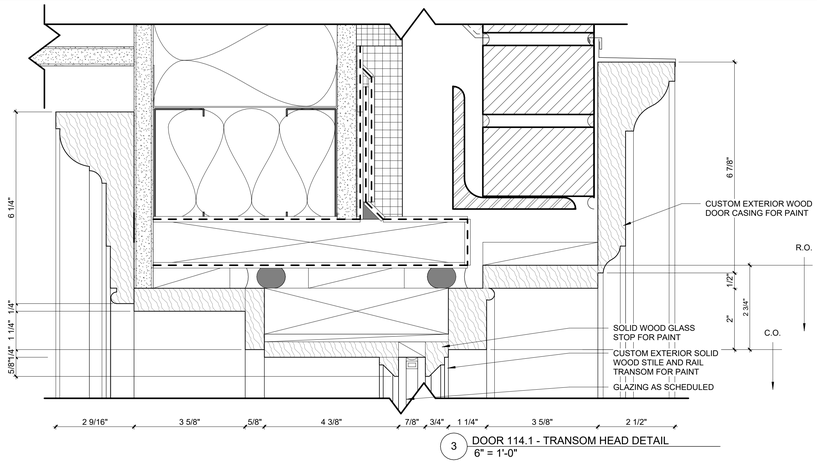




5 DOOR 114.1 - SIDELIGHT SILL DETAIL
6" = 1'-0"



4 DOOR 114.1 - SIDE PANEL SILL DETAIL
6" = 1'-0"



3 DOOR 114.1 - TRANSOM HEAD DETAIL
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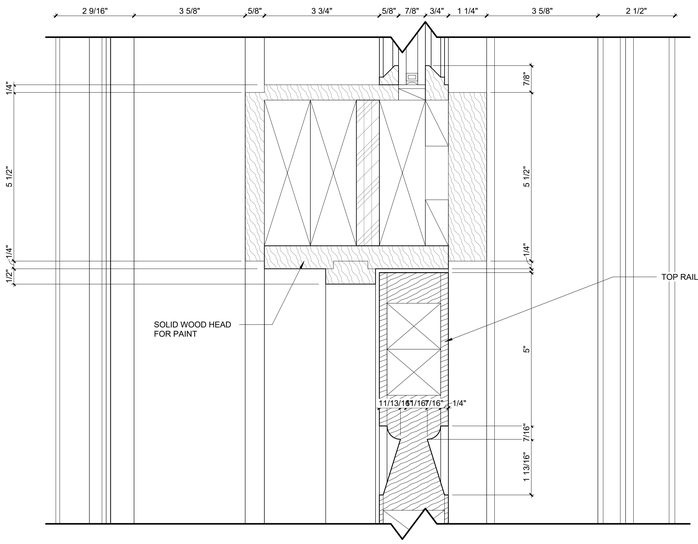
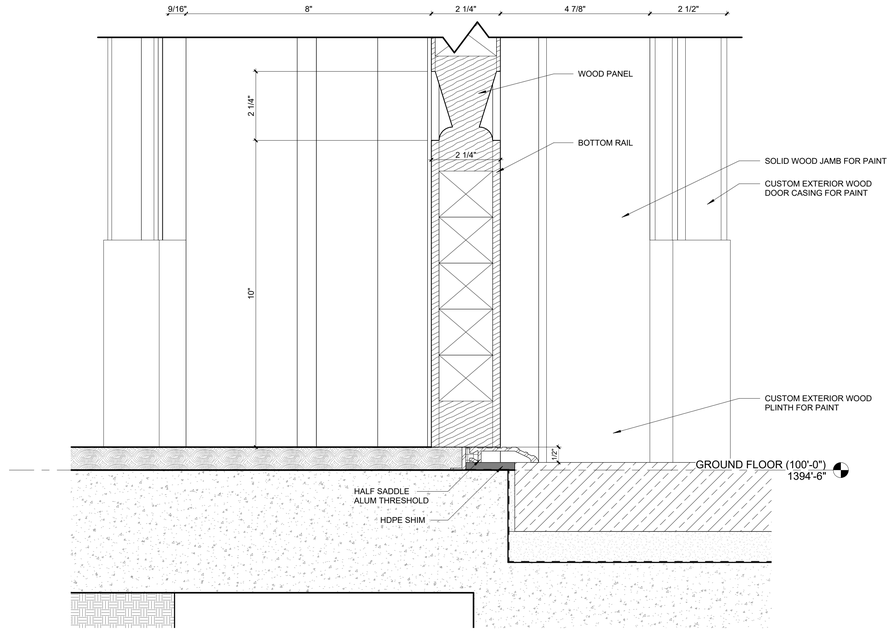


2 DOOR 114.1 - HEAD DETAIL
6" = 1'-0"



1 DOOR 114.1 - SILL DETAIL
6" = 1'-0"

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EXTERIOR DOOR AND FRAME DETAILS

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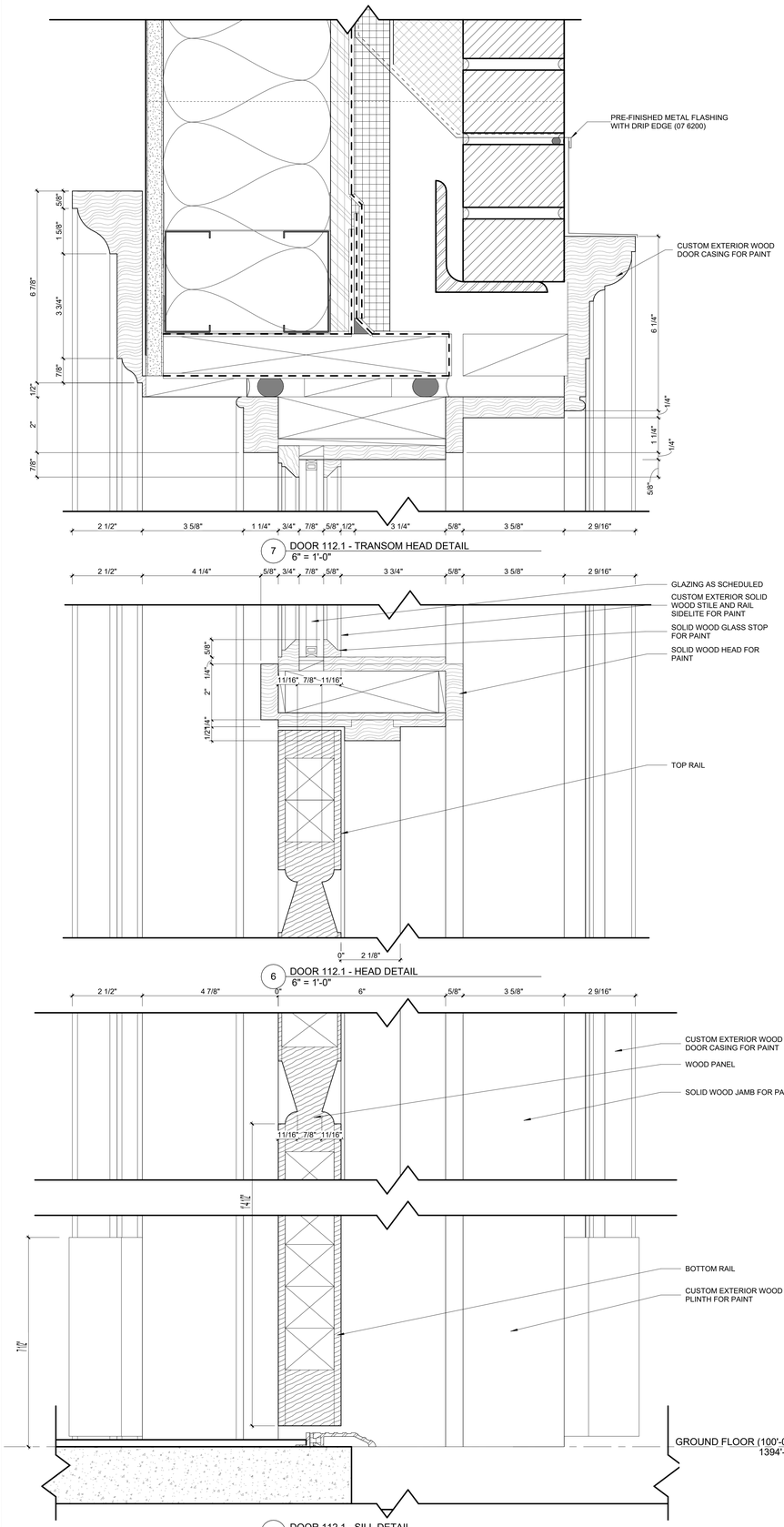
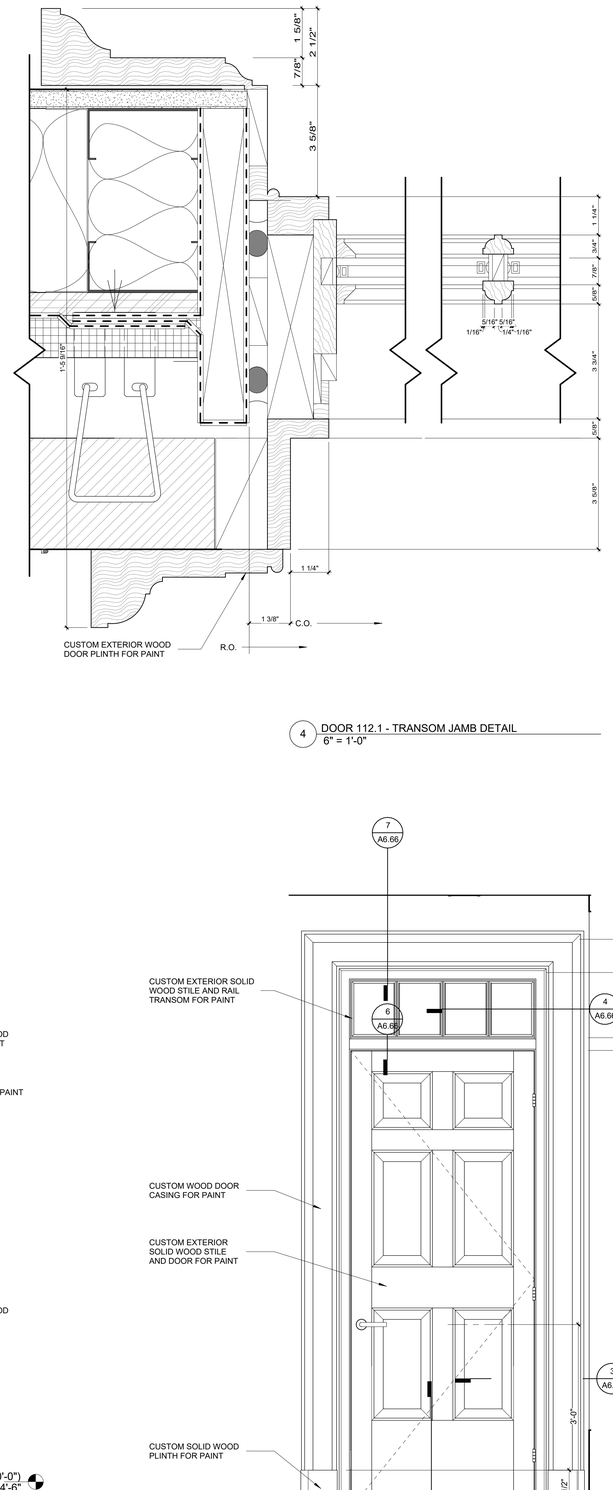


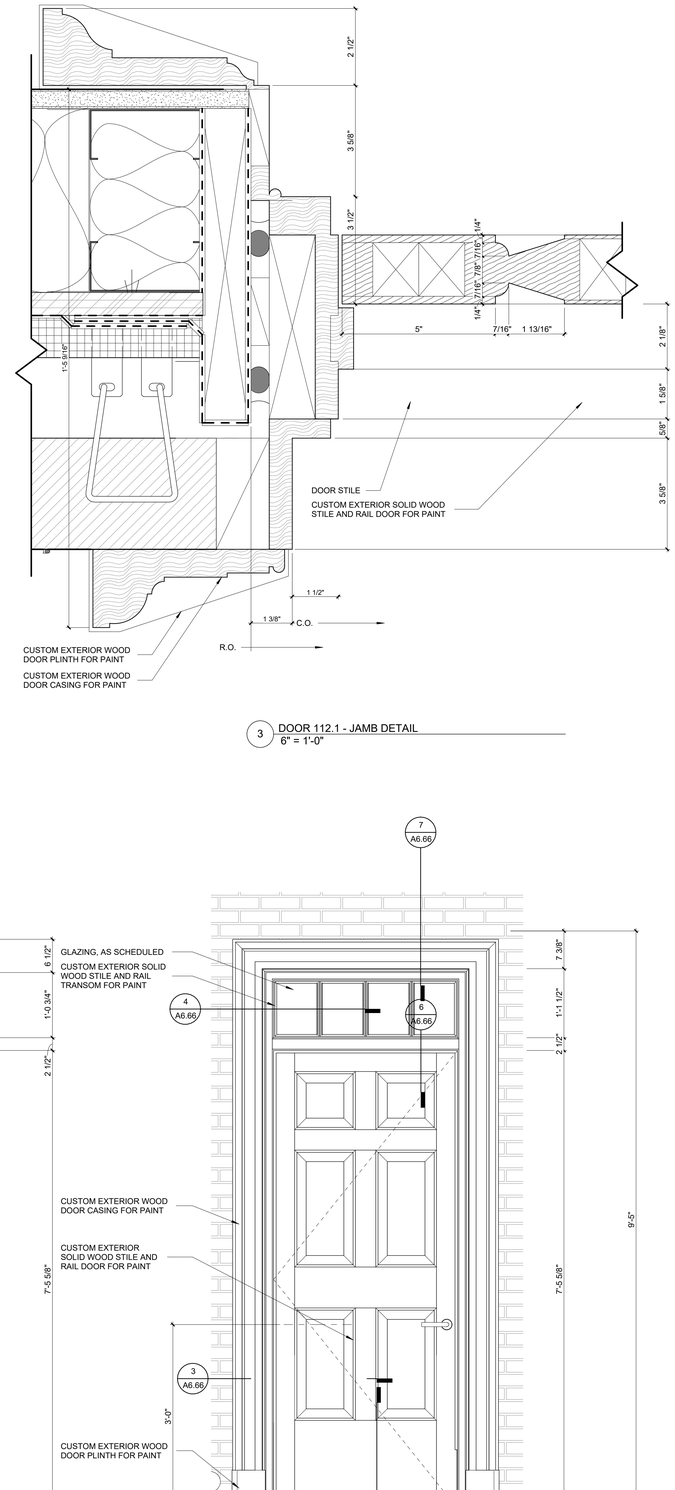
7 DOOR 112.1 - TRANSOM HEAD DETAIL
6" = 1'-0"

6 DOOR 112.1 - HEAD DETAIL
6" = 1'-0"

5 DOOR 112.1 - SILL DETAIL
6" = 1'-0"



4 DOOR 112.1 - TRANSOM JAMB DETAIL
6" = 1'-0"



3 DOOR 112.1 - JAMB DETAIL
6" = 1'-0"

2 DOOR 112.1 - INTERIOR ELEVATION
1" = 1'-0"

1 DOOR 112.1 - EXTERIOR ELEVATION
1" = 1'-0"

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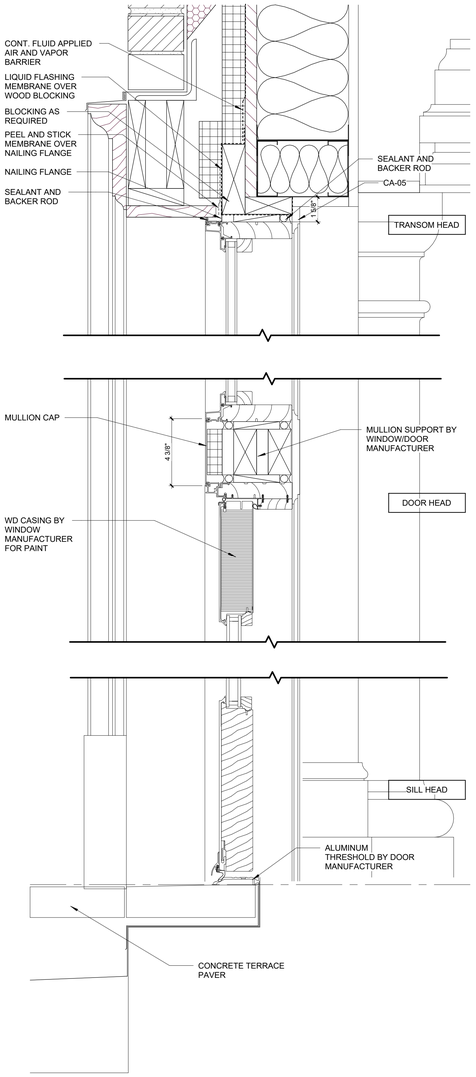
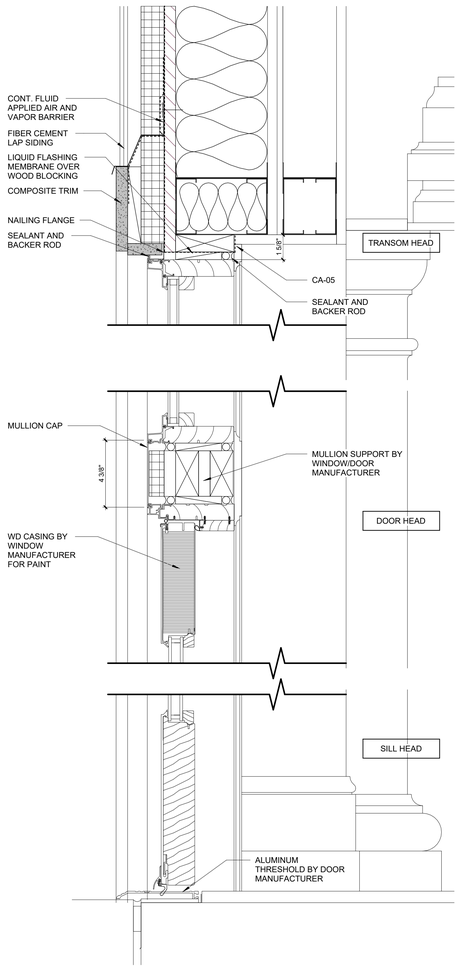


10 GG TYPE SECTION DETAIL - COURTYARD - T
3" = 1'-0"



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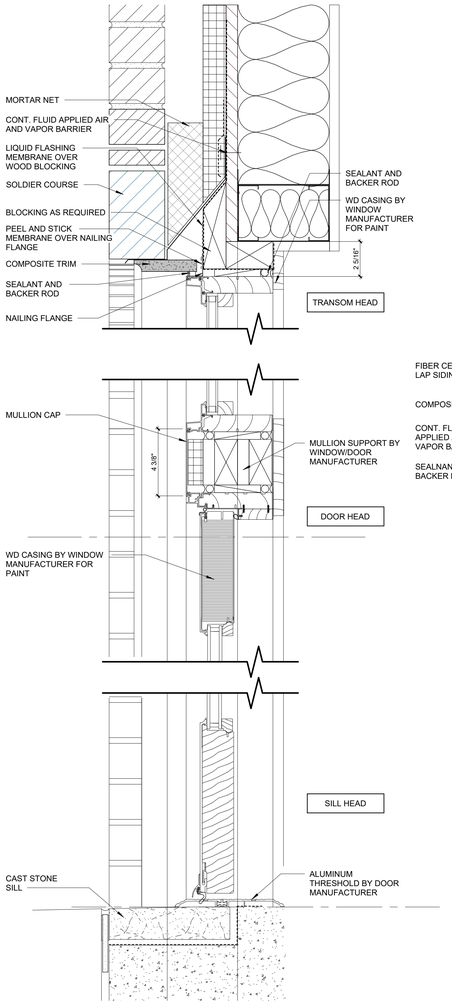

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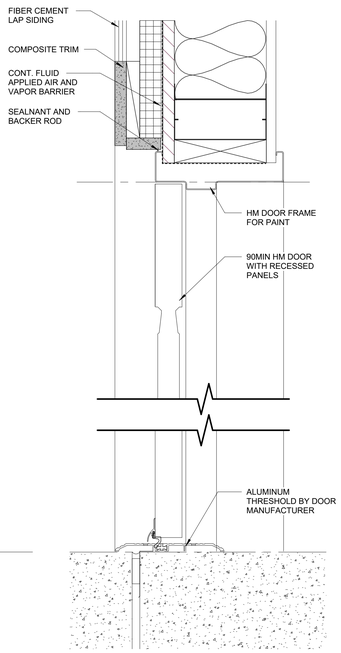

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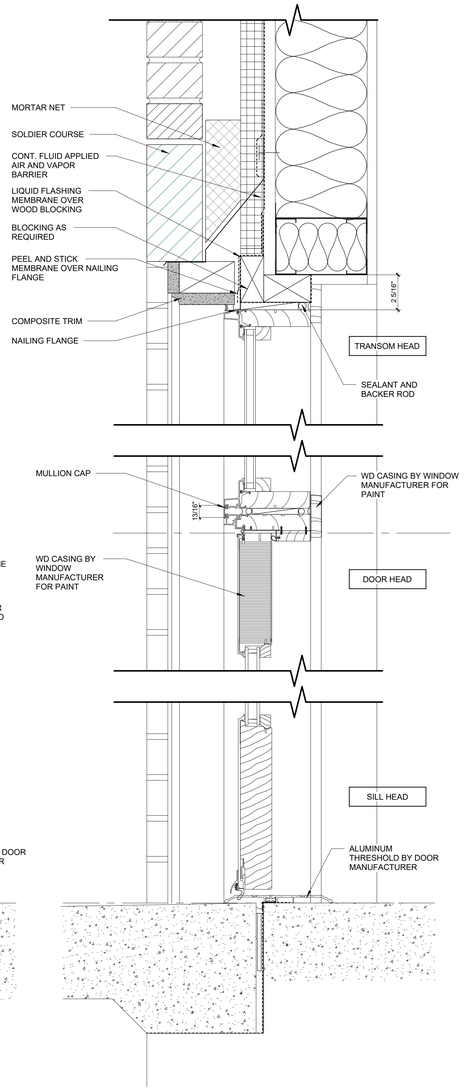

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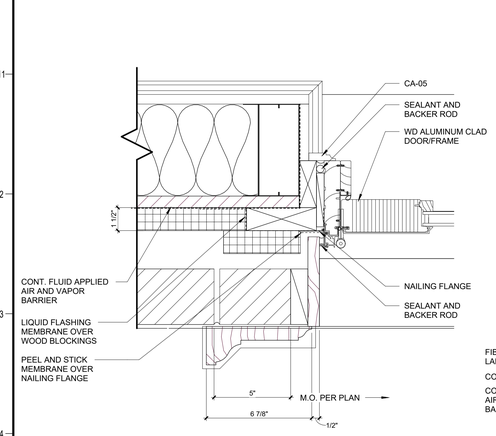
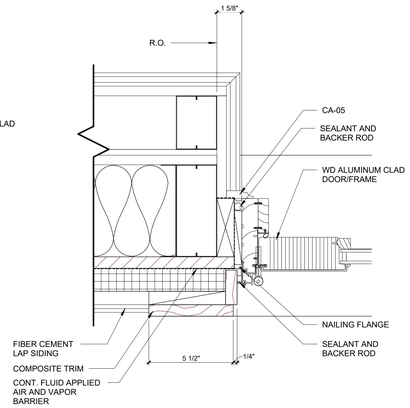


9 GG TYPE JAMB DETAIL - COURTYARD - T
3" = 1'-0"



7 GG TYPE JAMB DETAIL - COURTYARD
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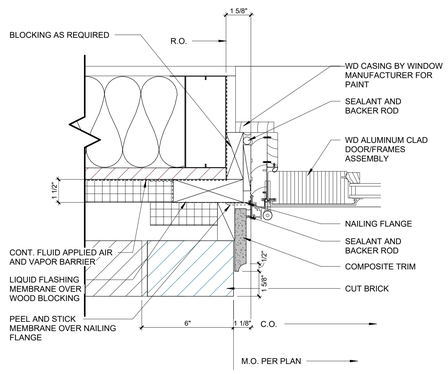

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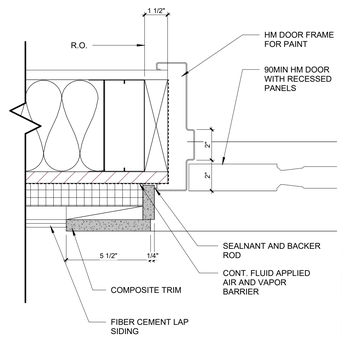

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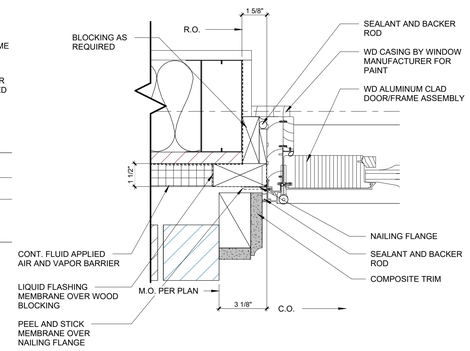

1 G TYPE JAMB DETAIL
3" = 1'-0"

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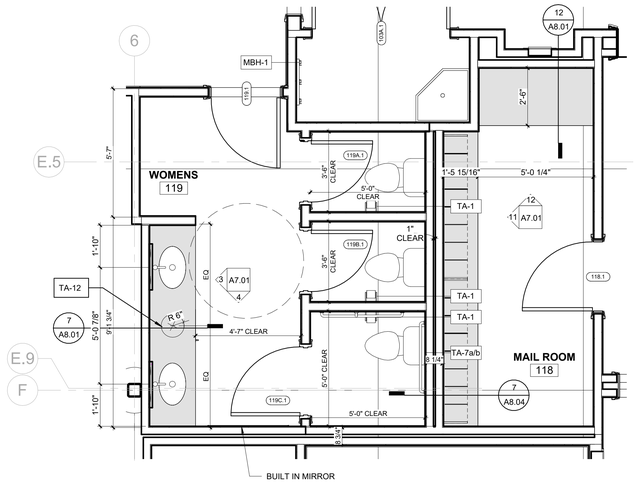

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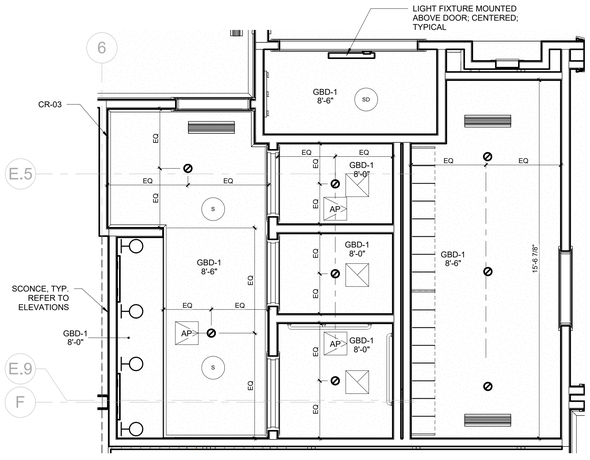
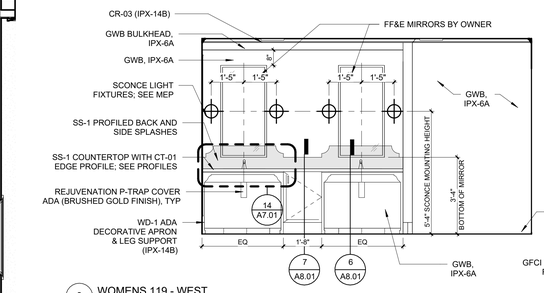
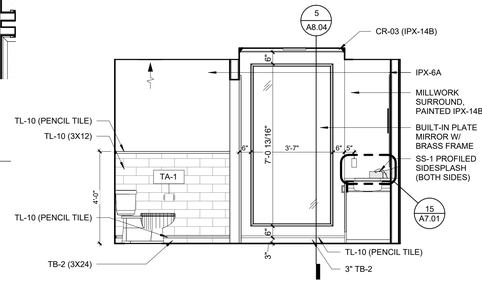
3/8" = 1'-0"



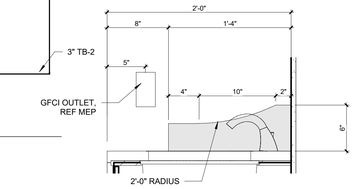
2 ENL REFLECTED CEILING PLAN - RESTROOM 119
3/8" = 1'-0"



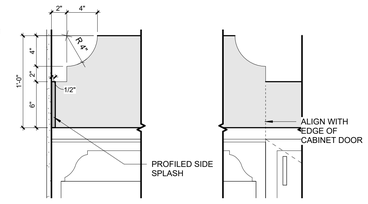
3 WOMENS 119 - WEST
3/8" = 1'-0"



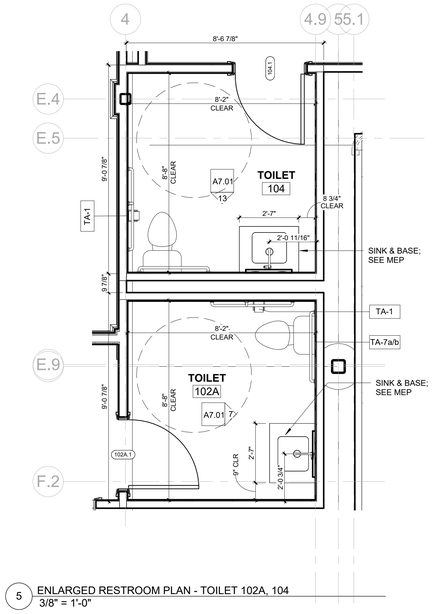
4 WOMENS 119 - SOUTH
3/8" = 1'-0"



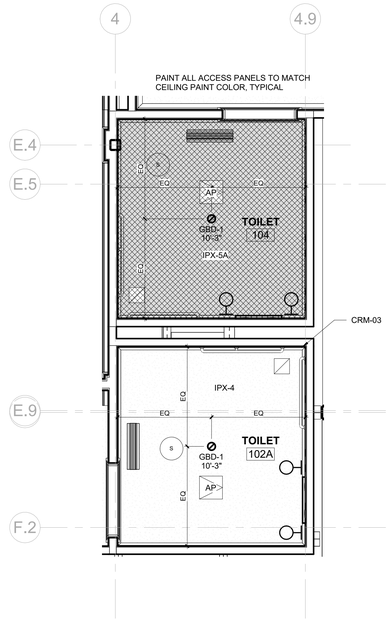
15 DECORATIVE SIDESPLASH DETAIL
1 1/2" = 1'-0"



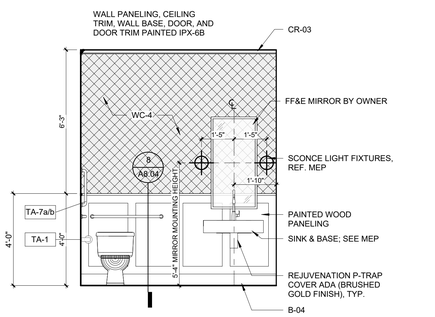
14 DECORATIVE BACKSPLASH DETAIL
1 1/2" = 1'-0"



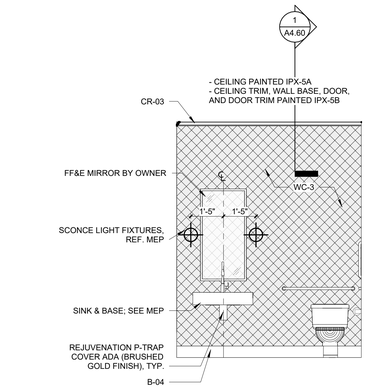
5 ENLARGED RESTROOM PLAN - TOILET 102A, 104
3/8" = 1'-0"



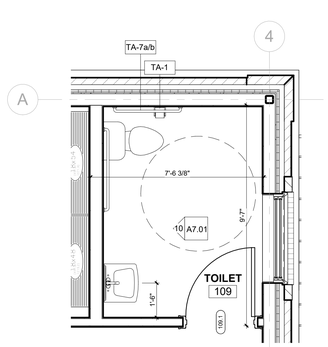
6 ENL REFLECTED CEILING PLAN - TOILET 102A, 104
3/8" = 1'-0"



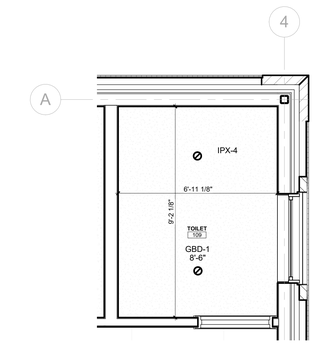
7 POWDER ROOM 102A
3/8" = 1'-0"



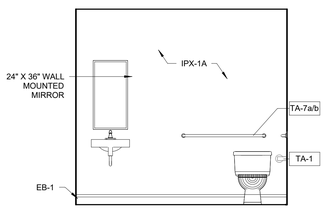
13 POWDER ROOM 104
3/8" = 1'-0"



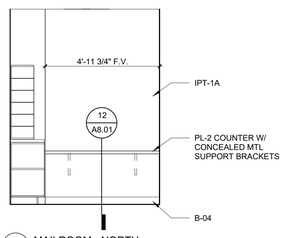
8 ENLARGED RESTROOM PLAN - TOILET 109
3/8" = 1'-0"



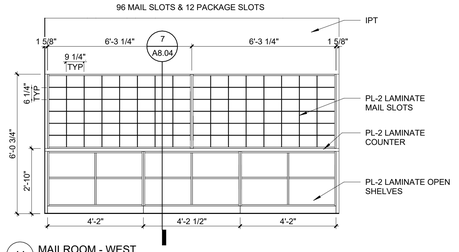
9 ENL REFLECTED CEILING PLAN - TOILET 109
3/8" = 1'-0"



10 TOILET 109 - WEST
3/8" = 1'-0"



12 MAILROOM - NORTH
3/8" = 1'-0"



11 MAILROOM - WEST
3/8" = 1'-0"

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Key Plan:

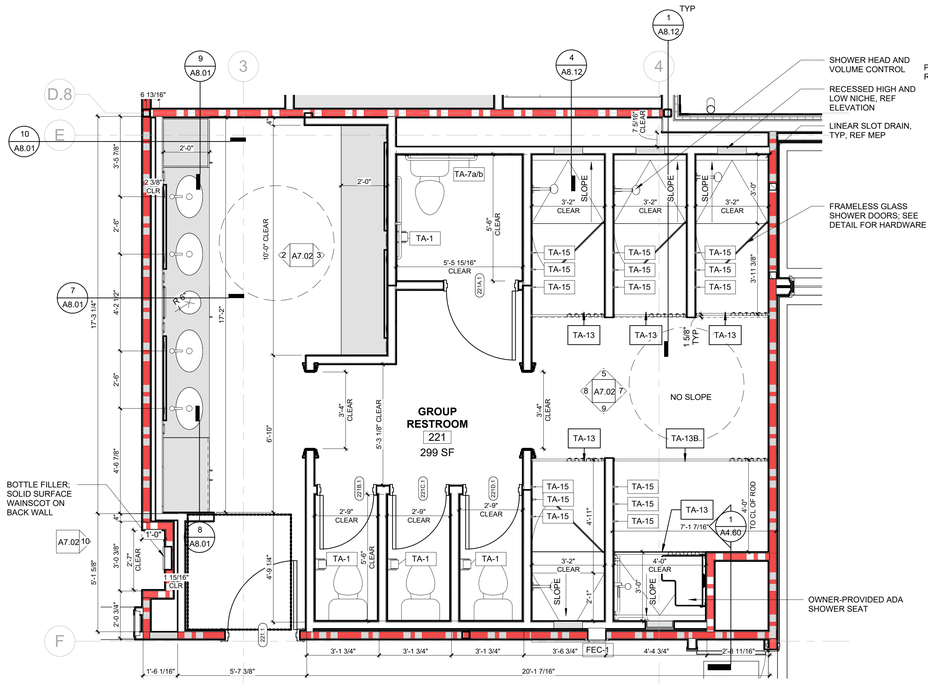
No.	Issue	Date

Job No. UAFAPH-21.01

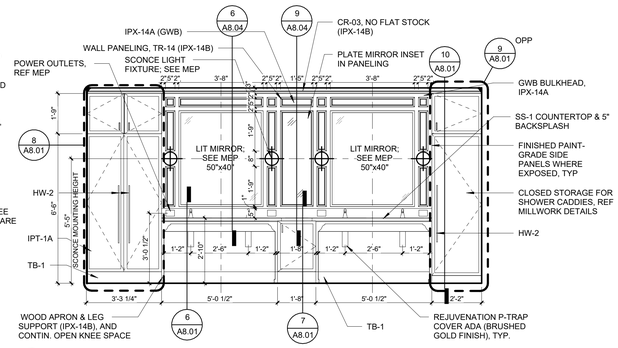
Date 12.18.2025

Title
ENL TOILET PLANS & ELEVATIONS

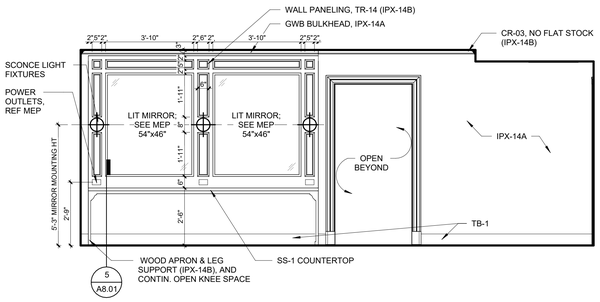
Sheet No.
A7.01



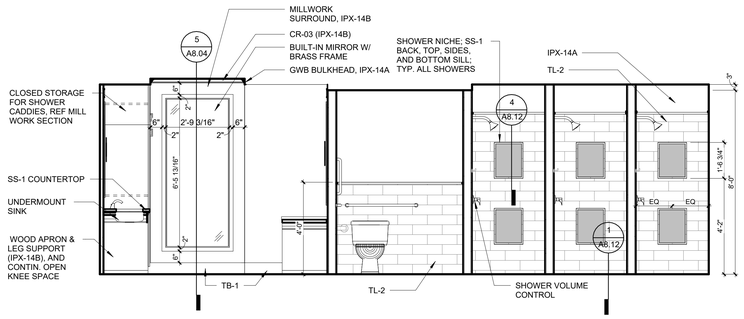
1 ENL RESTROOM PLAN - GROUP RESTROOM 221
3/8" = 1'-0"



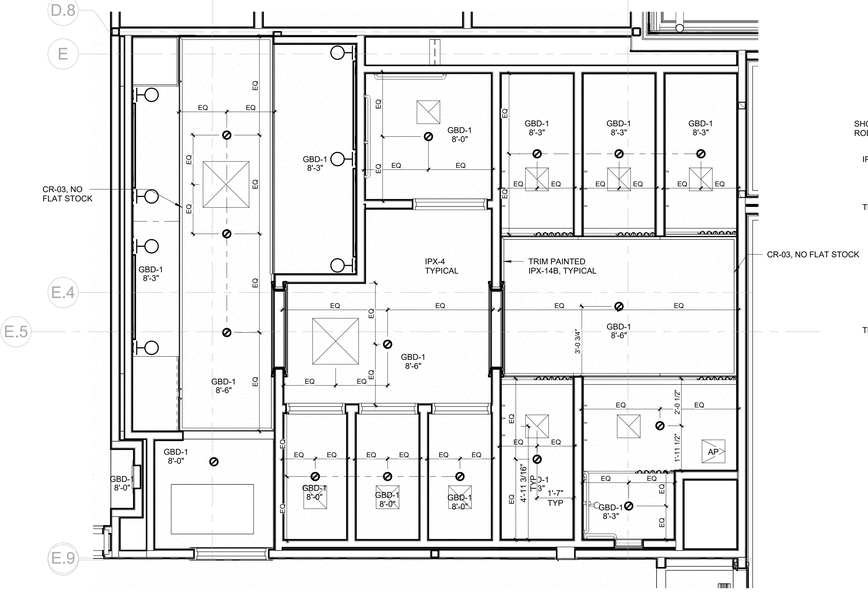
2 RR 221 VANITY - WEST
3/8" = 1'-0"



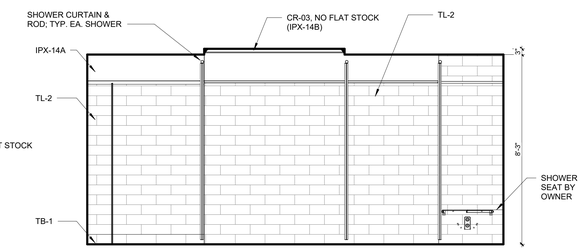
3 RR 221 VANITY - EAST
3/8" = 1'-0"



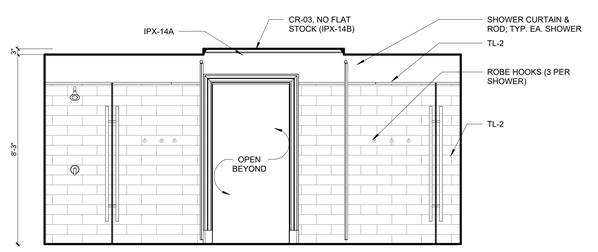
5 RR 221 SHOWER - NORTH
3/8" = 1'-0"



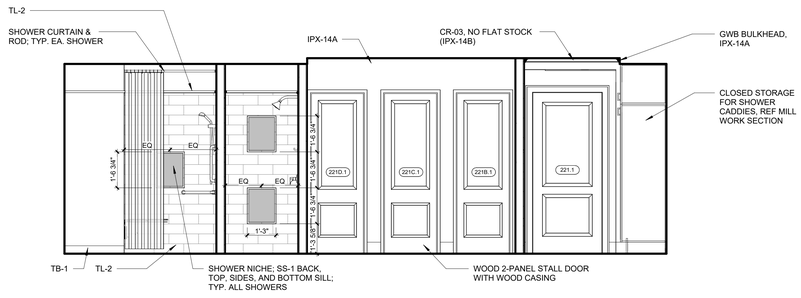
6 ENL REFLECTED CEILING PLAN - GROUP RESTROOM 221
3/8" = 1'-0"



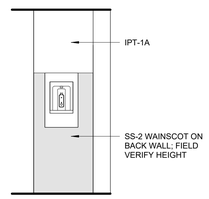
7 RR 221 SHOWER - EAST
3/8" = 1'-0"



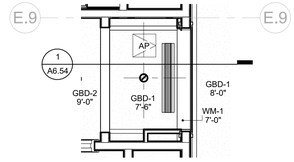
8 RR 221 SHOWER - WEST
3/8" = 1'-0"



9 RR 221 SHOWER - SOUTH
3/8" = 1'-0"



10 WATERFOUNTAIN, TYPICAL
3/8" = 1'-0"



4 ENL REFLECTED CEILING PLAN - UNEVEN DOORS
3/8" = 1'-0"

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Job No. UAFAPH-21.01
Date 12.18.2025
Title

ENL TOILET PLANS & ELEVATIONS

Sheet No.
A7.02

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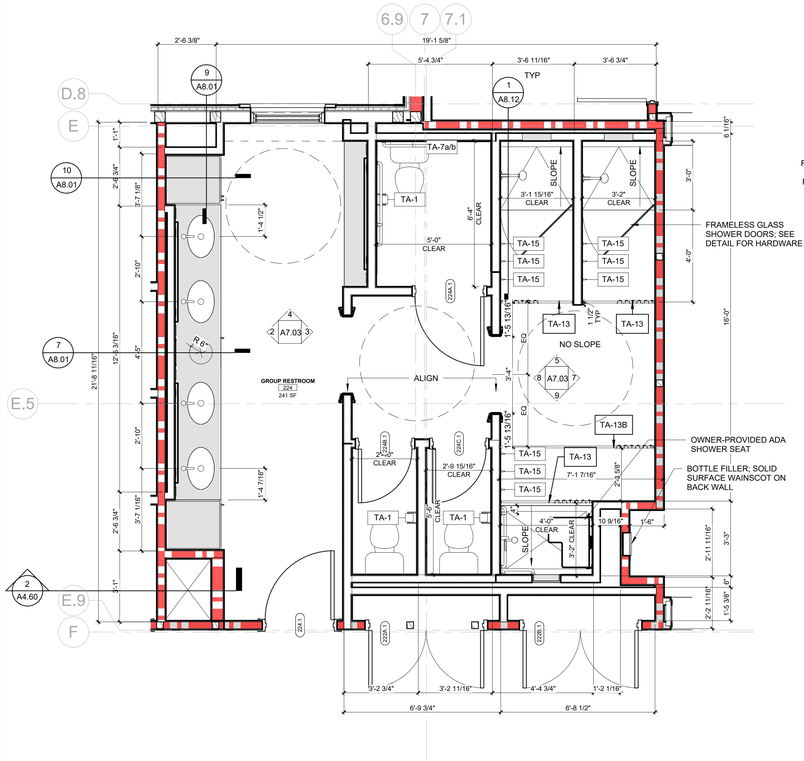
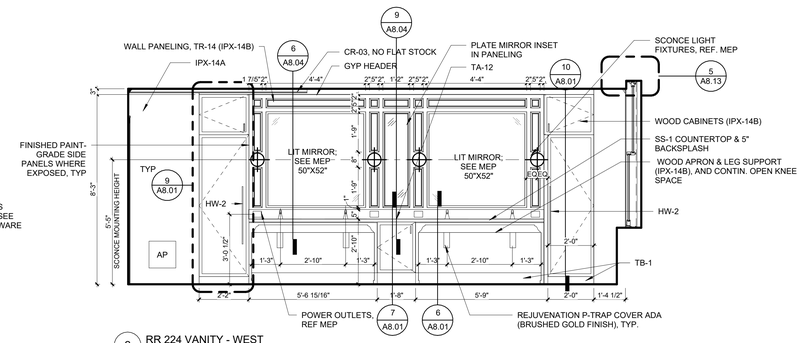
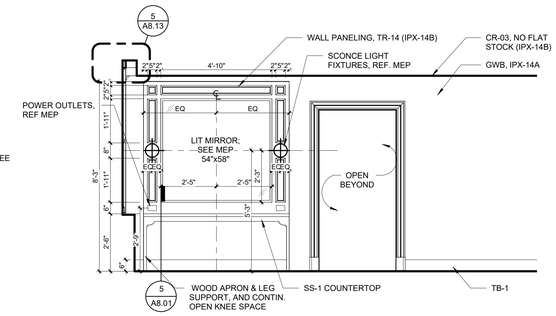


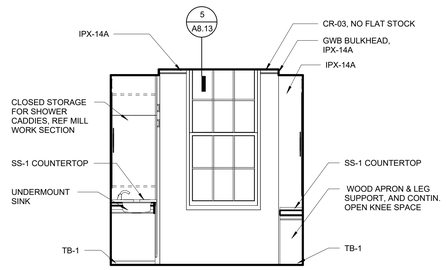
1 ENLARGED RESTROOM PLAN - ROOM 224
3/8" = 1'-0"



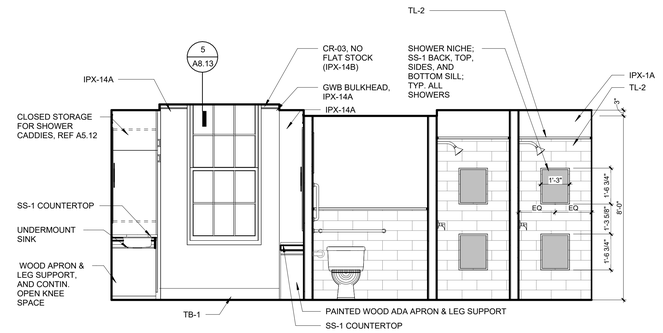
2 RR 224 VANITY - WEST
3/8" = 1'-0"



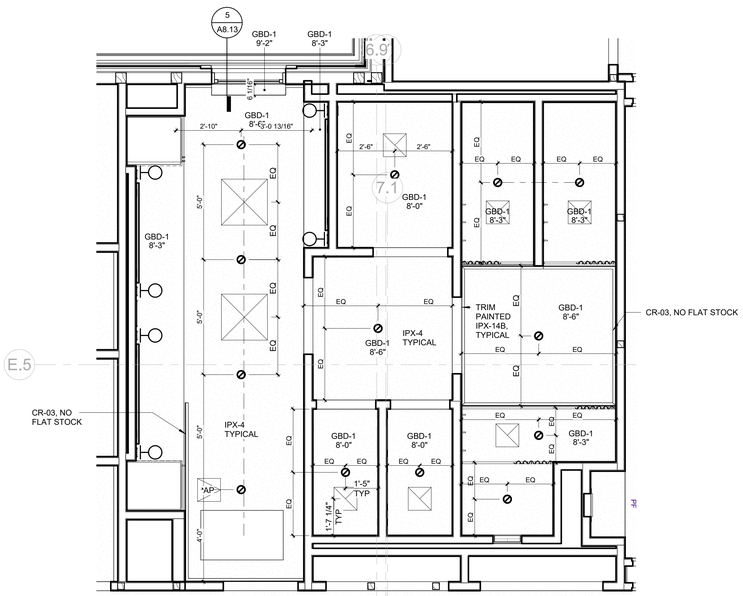
3 RR 224 VANITY - EAST
3/8" = 1'-0"



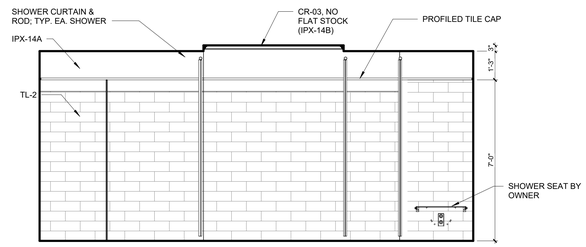
4 RR 224 VANITY - NORTH
3/8" = 1'-0"



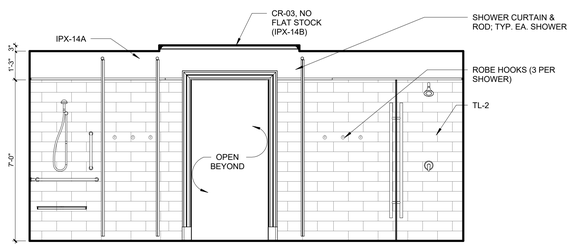
5 RR 224 SHOWER - NORTH
3/8" = 1'-0"



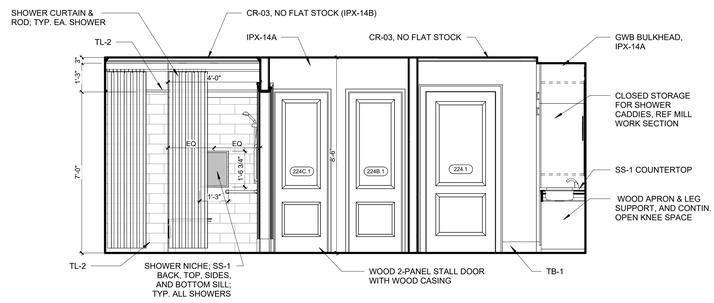
6 ENL REFLECTED CEILING PLAN - GROUP RESTROOM 224
3/8" = 1'-0"



7 RR 224 SHOWER - EAST
3/8" = 1'-0"



8 RR 224 SHOWER - WEST
3/8" = 1'-0"



9 RR 224 SHOWER - SOUTH
3/8" = 1'-0"

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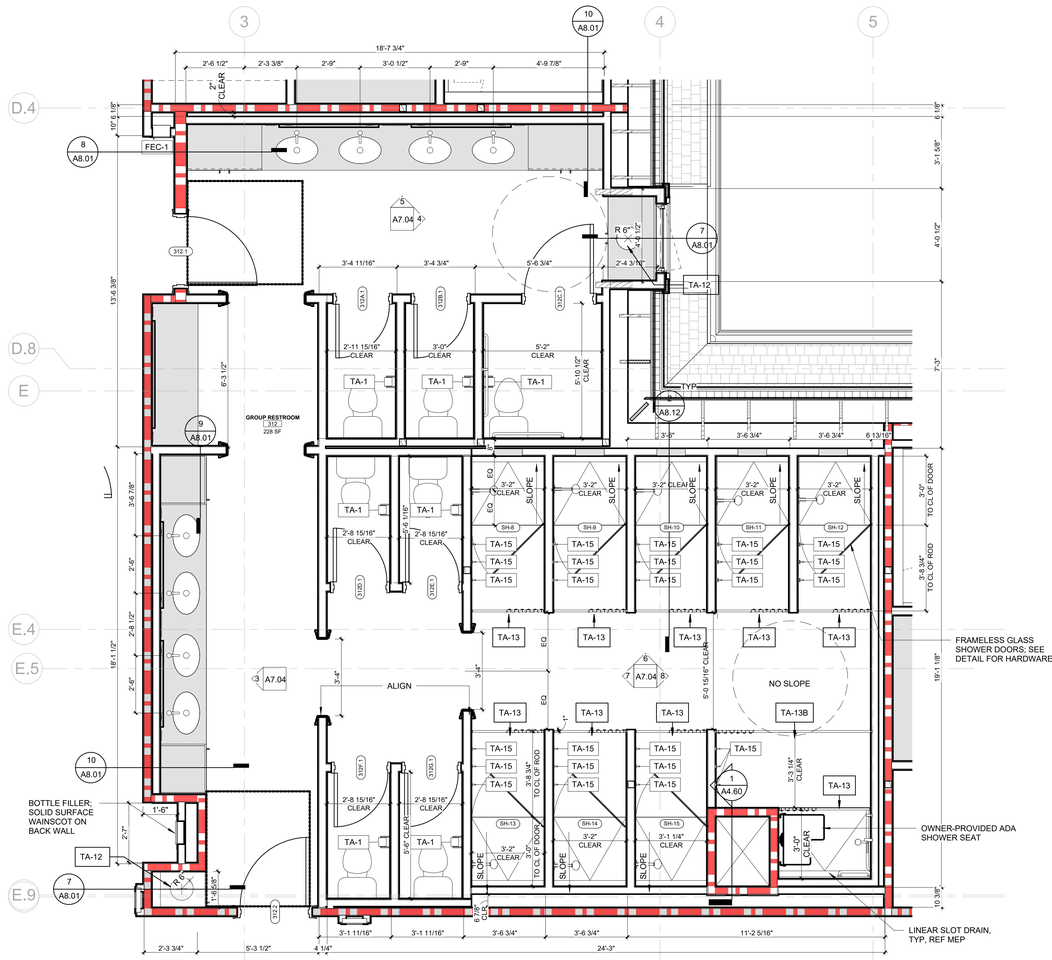

1 ENL RESTROOM PLAN - GROUP RR 312
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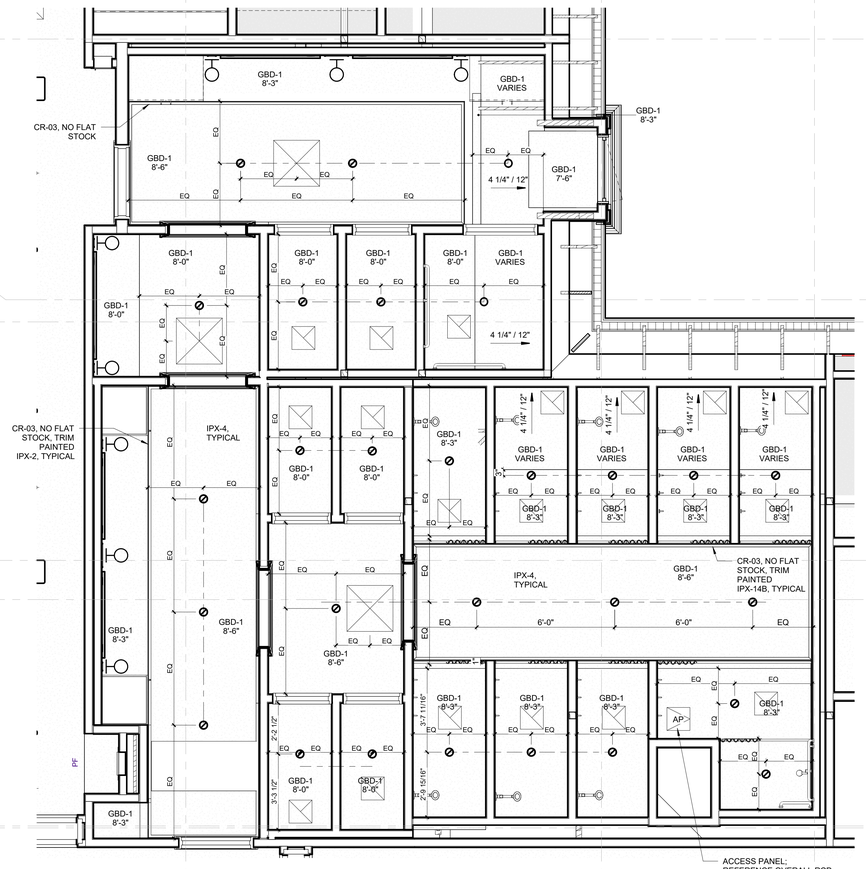

2 ENLARGED RCP - GROUP RR 312
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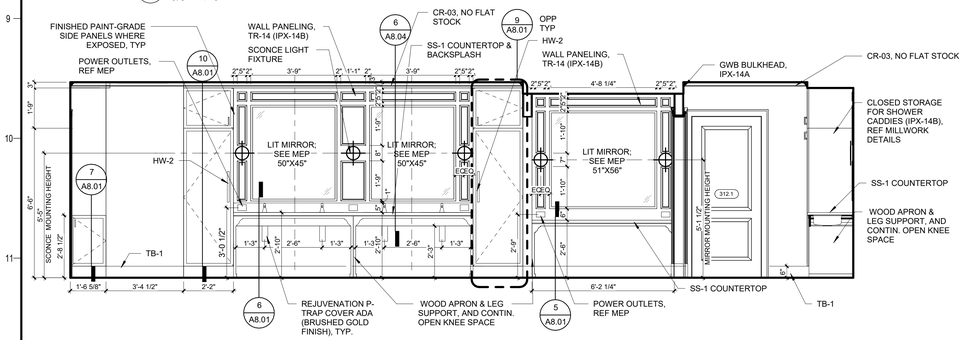
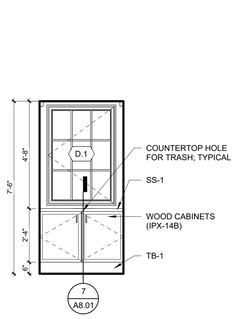
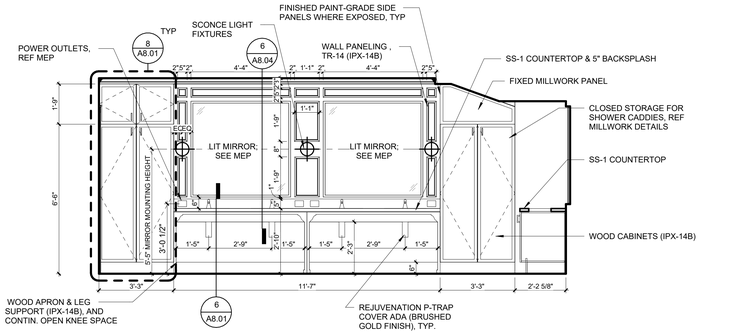


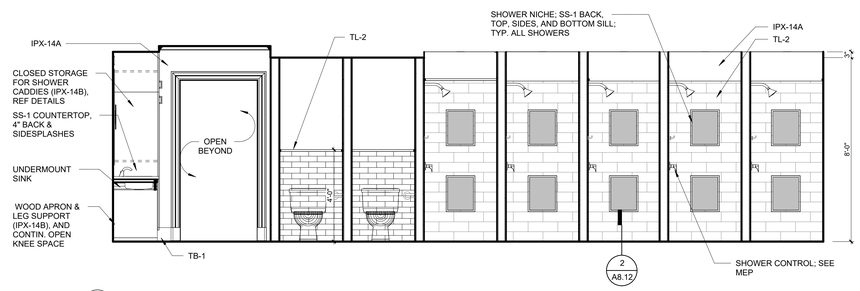
3 RR 312 VANITY 2 - WEST
3/8" = 1'-0"



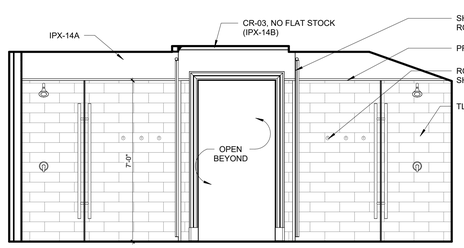
4 RR 312 VANITY 1- EAST
3/8" = 1'-0"



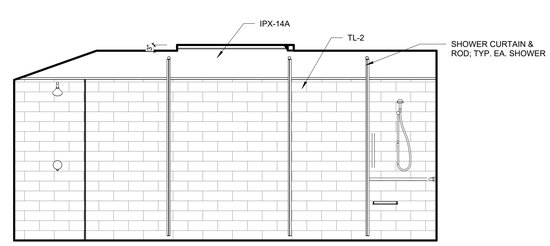
5 RR 312 VANITY 1 - NORTH
3/8" = 1'-0"



6 RR 312 SHOWER - NORTH
3/8" = 1'-0"



7 RR 312 SHOWER - WEST
3/8" = 1'-0"



8 RR 312 SHOWER - EAST
3/8" = 1'-0"

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Sheet No. **A7.04**

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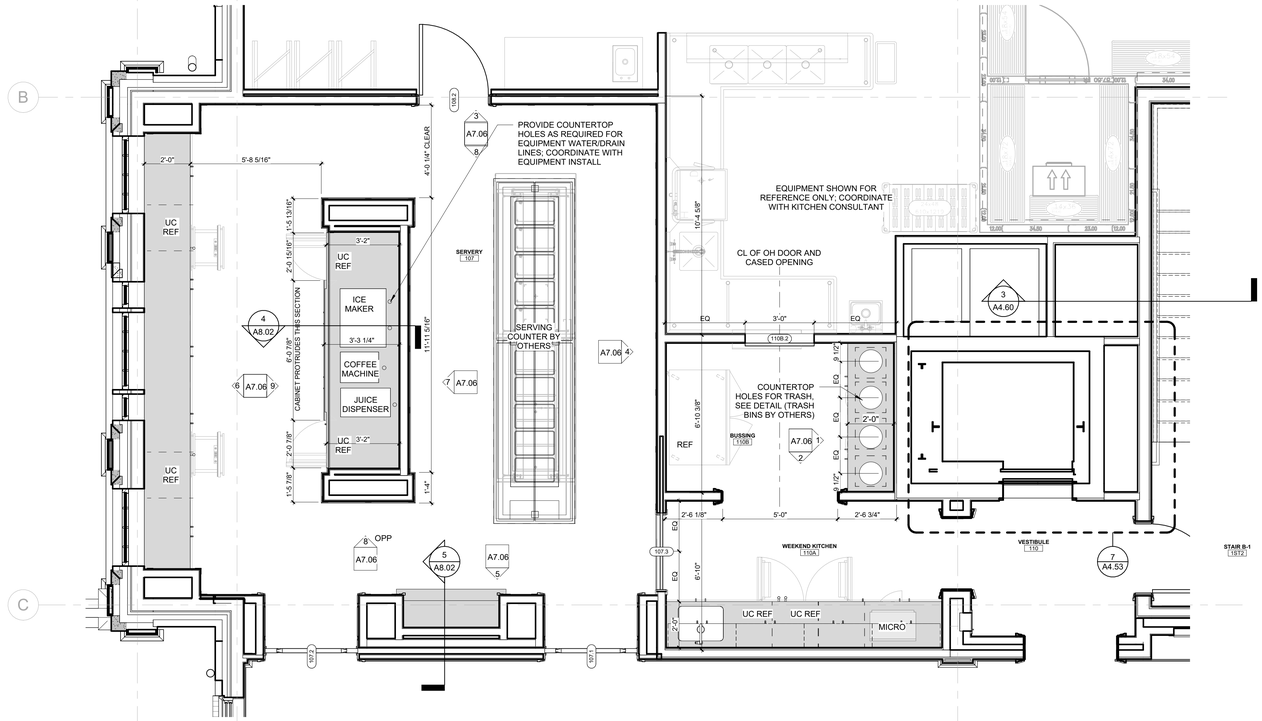
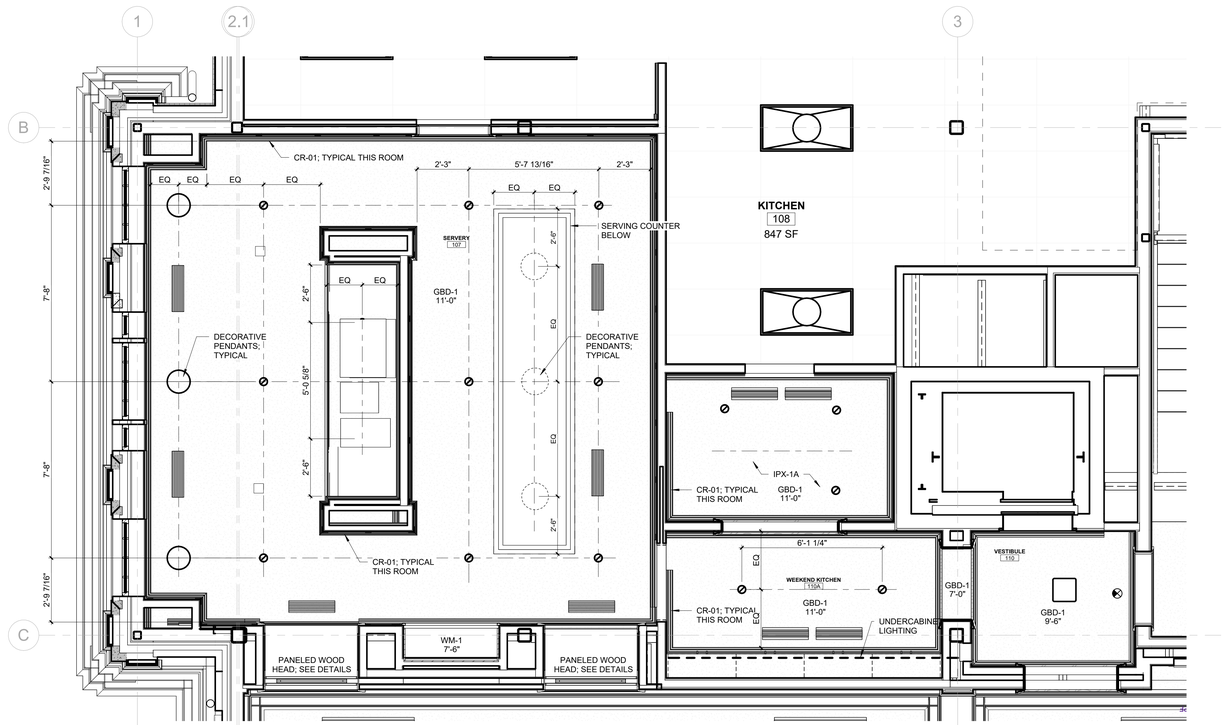


1 ENLARGED FLOOR PLAN - SERVERY AND KITCHEN
3/8" = 1'-0"



3 ENLARGED RCP - SERVERY AND KITCHEN
3/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

ENL PLAN & RCP - SERVERY AND KITCHEN

Sheet No.

A7.05

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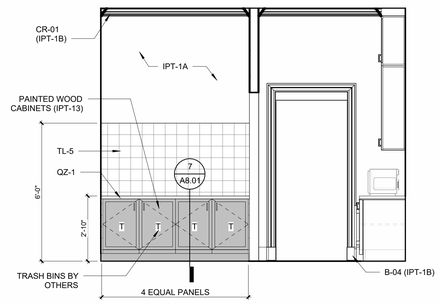

1 WEEKEND KITCHEN - EAST
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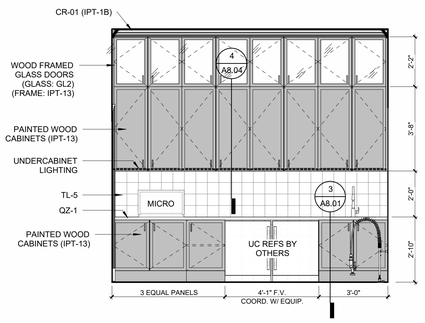
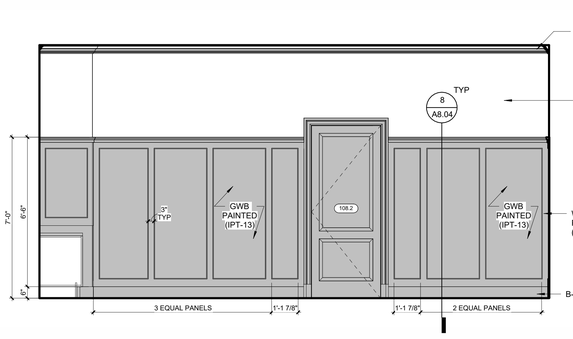
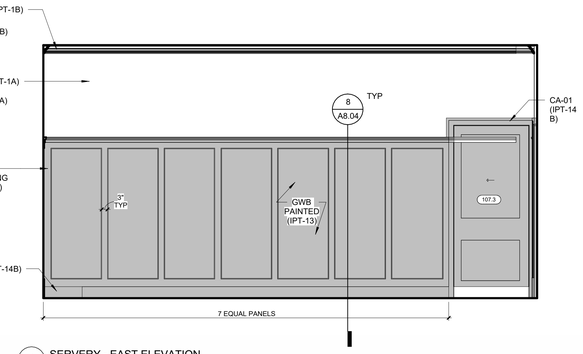


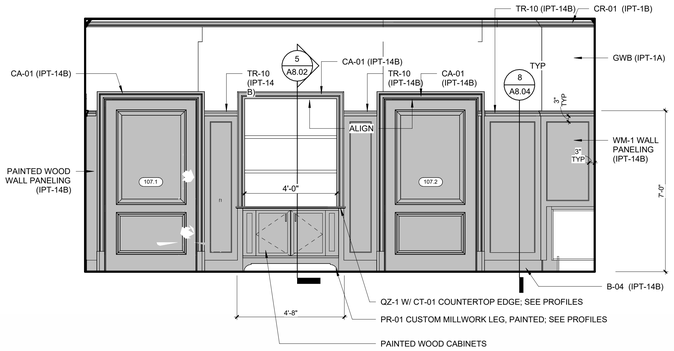
2 WEEKEND KITCHEN - SOUTH
3/8" = 1'-0"



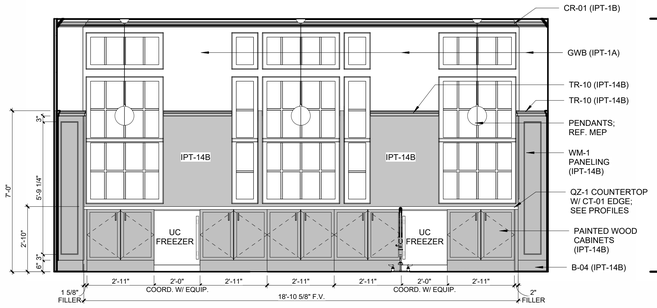
3 SERVERY - NORTH ELEVATION
3/8" = 1'-0"



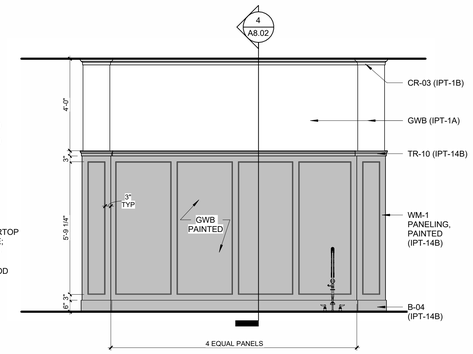
4 SERVERY - EAST ELEVATION
3/8" = 1'-0"



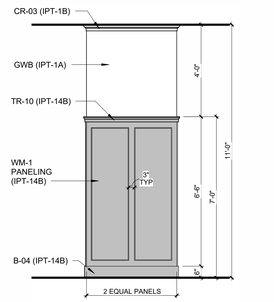
5 SERVERY - SOUTH
3/8" = 1'-0"



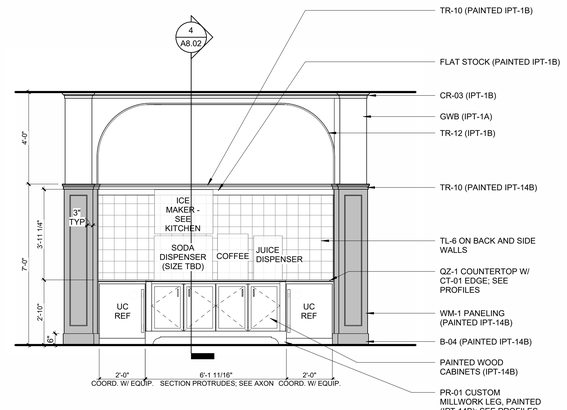
6 SERVERY - WEST
3/8" = 1'-0"



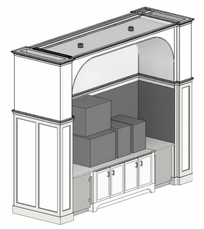
7 SERVERY - DRINK COUNTER - BACK
3/8" = 1'-0"



8 SERVERY DRINK COUNTER - SIDE
3/8" = 1'-0"



9 SERVERY - DRINK COUNTER - FRONT
3/8" = 1'-0"



10 SERVERY AXON 1



11 SERVERY AXON 2

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

INT ELEVATIONS - SERVERY AND KITCHEN
Sheet No.

A7.06

Project Name
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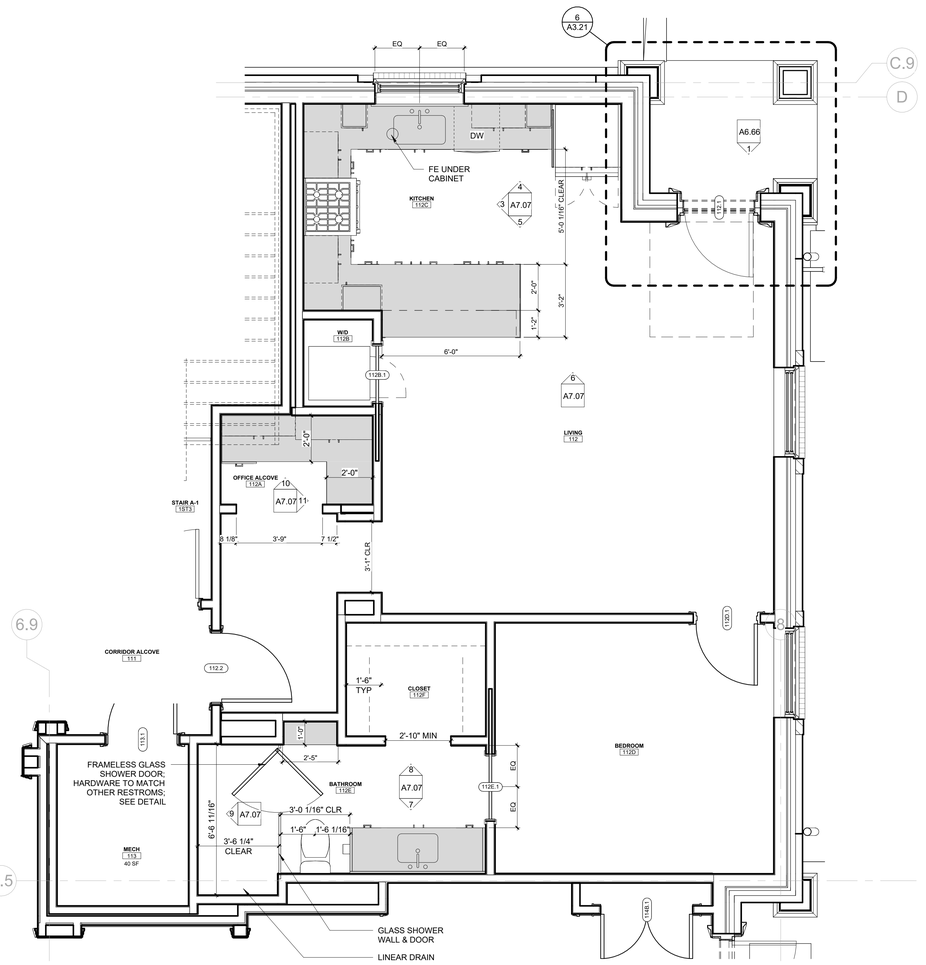
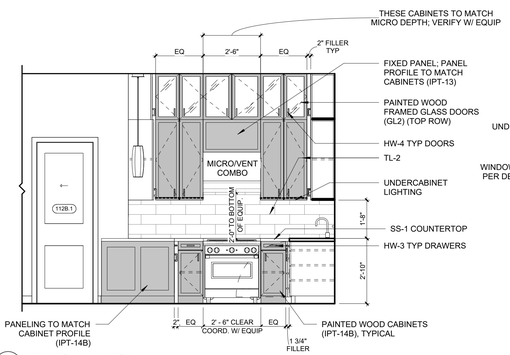
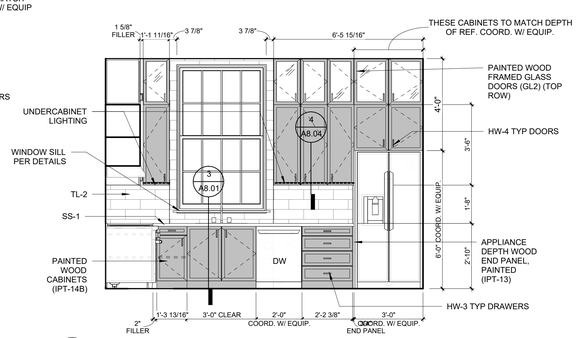


1 ENLARGED PLAN - HD SUITE
3/8" = 1'-0"

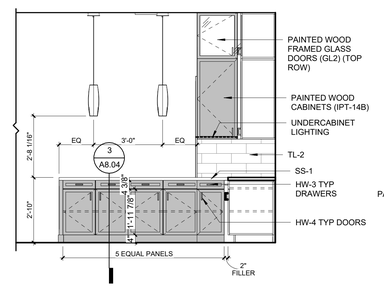
2 ENLARGED RCP - HD SUITE
3/8" = 1'-0"



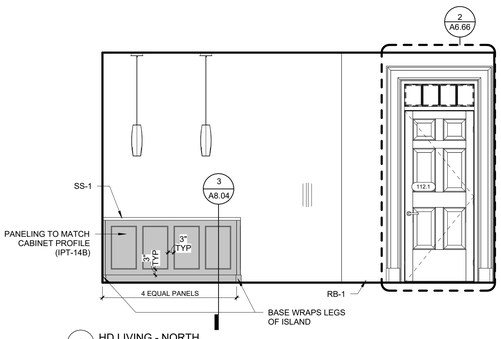
3 HD KITCHEN - WEST
3/8" = 1'-0"



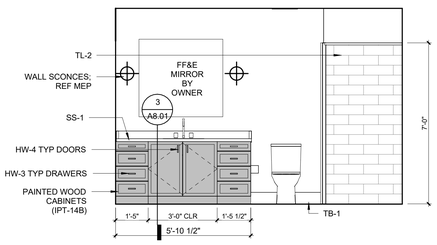
4 HD KITCHEN - NORTH
3/8" = 1'-0"



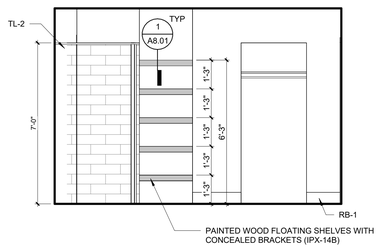
5 HD KITCHEN - SOUTH
3/8" = 1'-0"



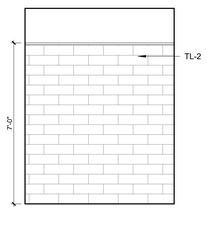
6 HD LIVING - NORTH
3/8" = 1'-0"



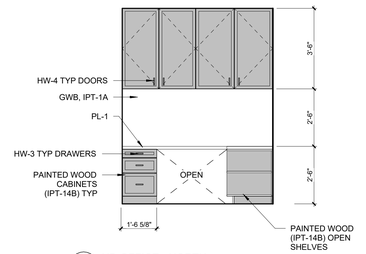
7 HD BATHROOM - SOUTH
3/8" = 1'-0"



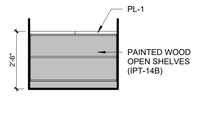
8 HD BATHROOM - NORTH
3/8" = 1'-0"



9 HD BATHROOM SHOWER - WEST
3/8" = 1'-0"



10 HD OFFICE - NORTH
3/8" = 1'-0"



11 HD OFFICE - EAST
3/8" = 1'-0"

Project Name
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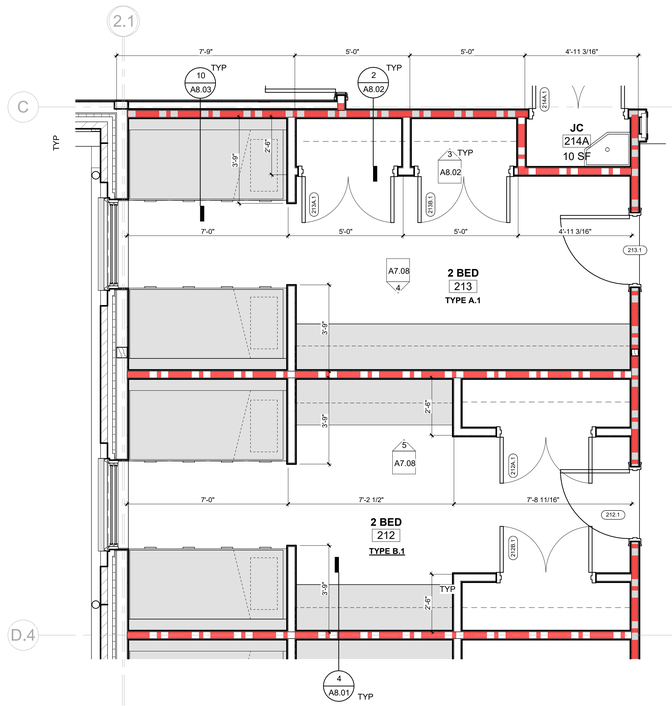
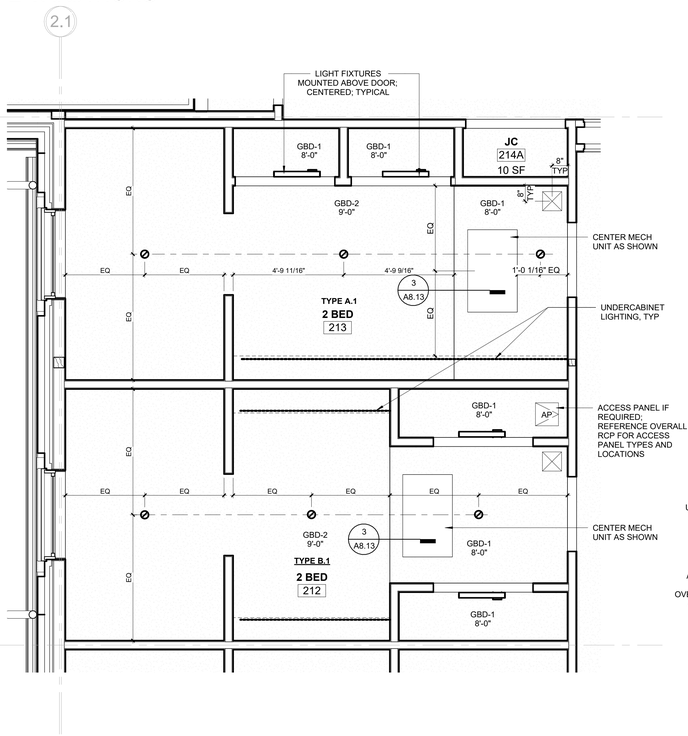
ENL PLANS & INT ELEVATIONS - HD SUITE

Sheet No.
A7.07

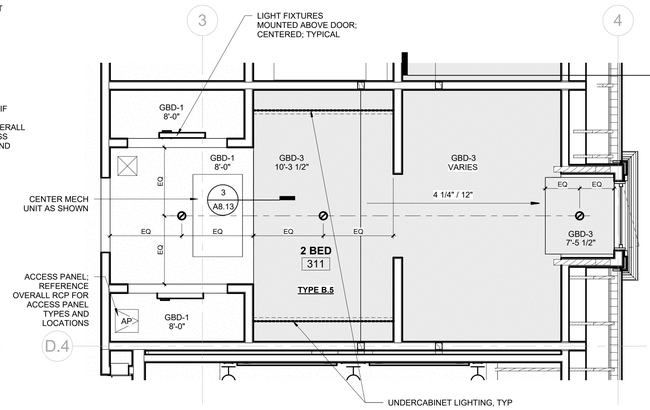
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



1 ENLARGED PLAN - BEDROOM TYPES A & B
3/8" = 1'-0"



2 ENLARGED RCP - BEDROOM TYPES A & B
3/8" = 1'-0"



3 ENLARGED RCP - THIRD FLOOR - BEDROOM TYPE B
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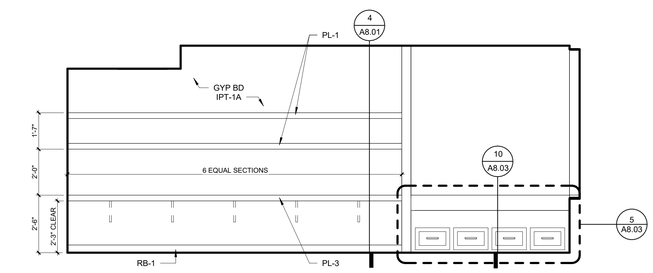
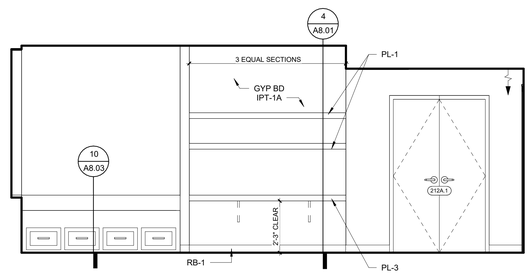


4 BEDROOM TYPE A - SOUTH ELEVATION
3/8" = 1'-0"



5 BEDROOM TYPE B - N/S ELEVATION
3/8" = 1'-0"



6 3D VIEW - BEDROOM TYPE B.1

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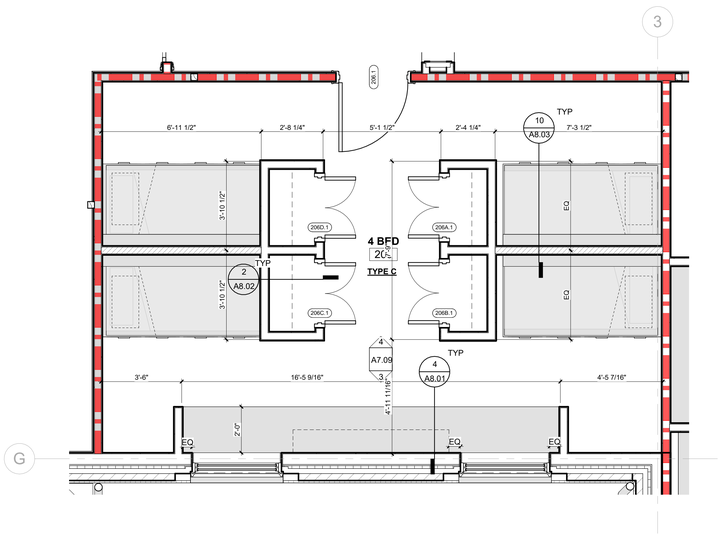
ENL PLANS & INT ELEVATIONS - BEDROOM TYPES A & B

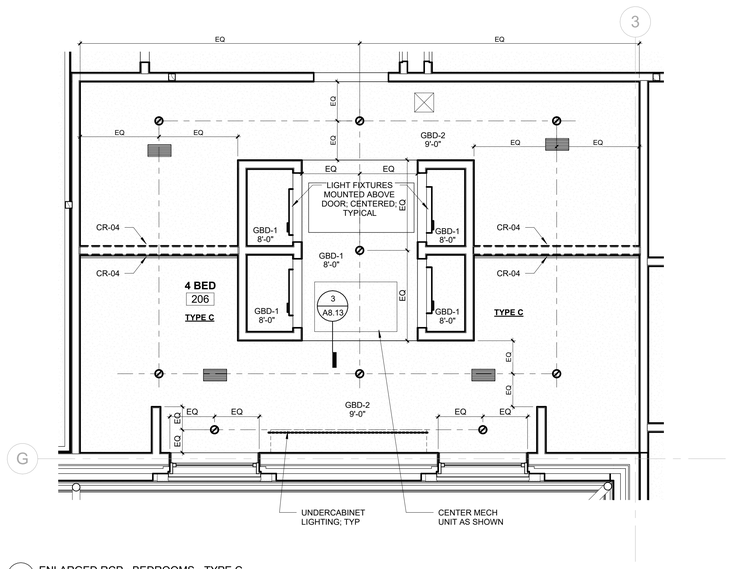
Sheet No.

A7.08

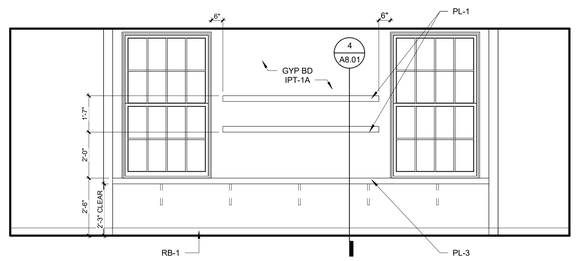
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



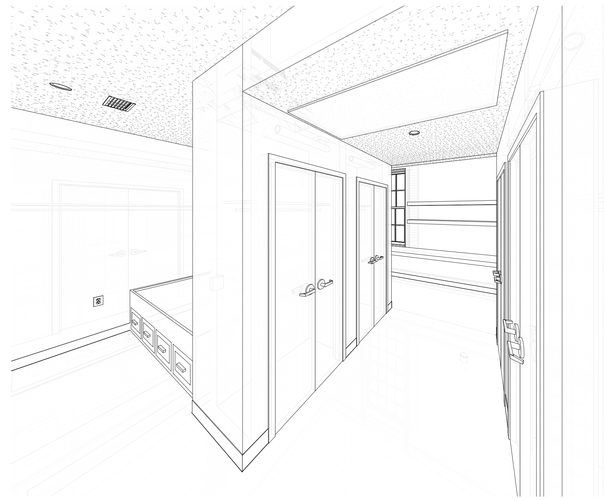
1 ENLARGED PLAN - BEDROOMS - TYPE C
3/8" = 1'-0"



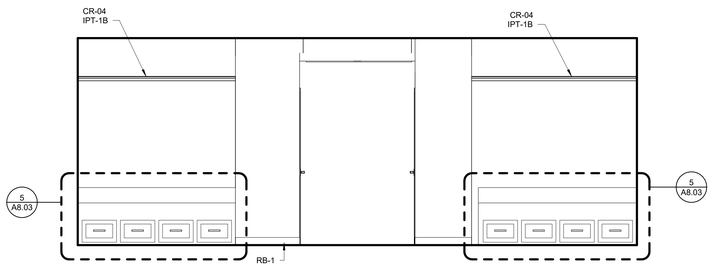
2 ENLARGED RCP - BEDROOMS - TYPE C
3/8" = 1'-0"



3 RM 209 - 4 BED - SOUTH ELEVATION
3/8" = 1'-0"



6 3D VIEW - BEDROOM TYPE C



4 RM 209 - 4 BED - NORTH ELEVATION
3/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

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Job No.
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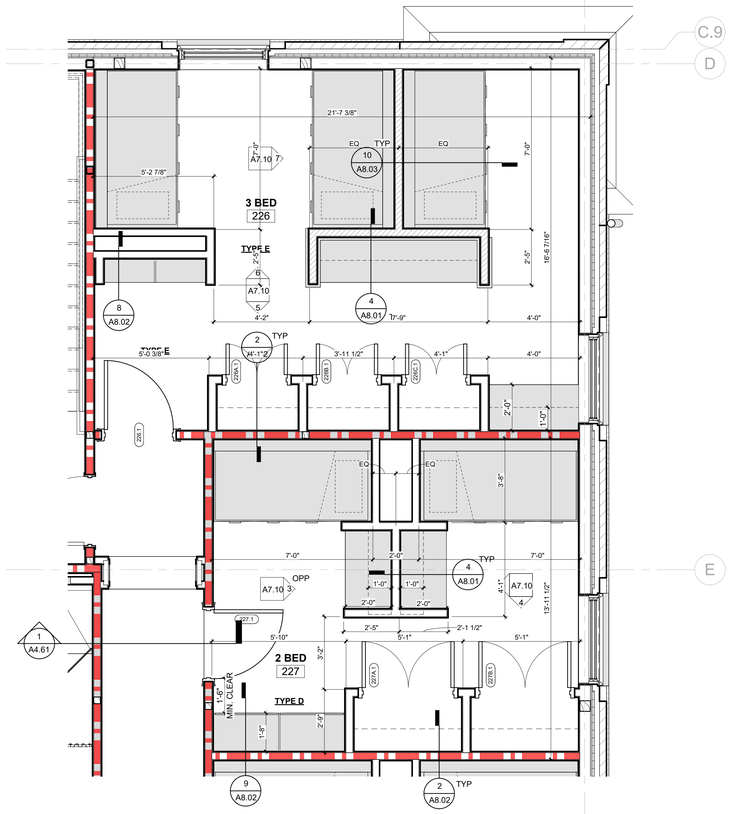
Date
12.18.2025
Title
ENL PLANS & INT ELEVATIONS - BEDROOM TYPE C
Sheet No.
A7.09

GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



1 ENLARGED PLAN - BEDROOMS - TYPE D & E
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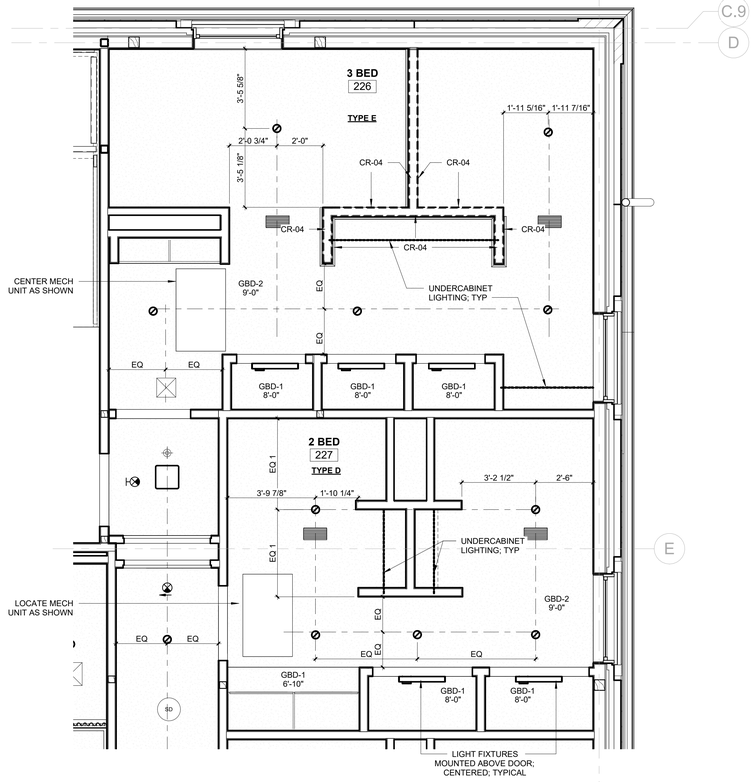
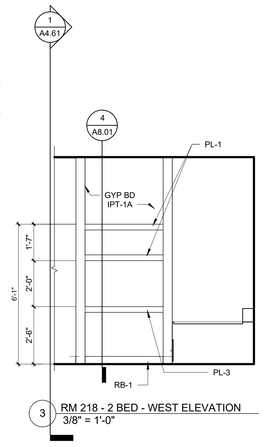
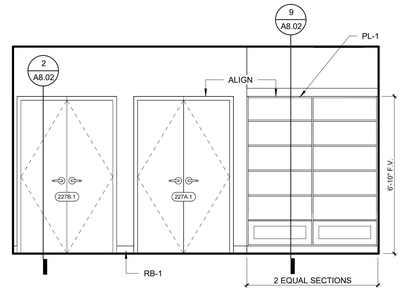


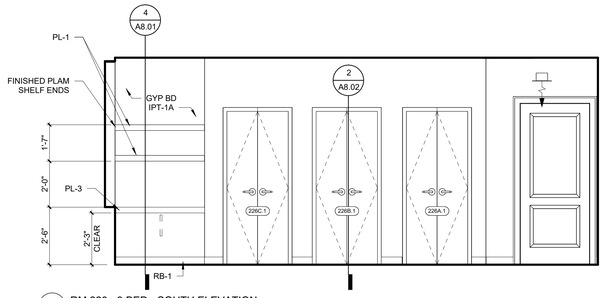
2 ENLARGED RCP - BEDROOMS - TYPE D & E
3/8" = 1'-0"



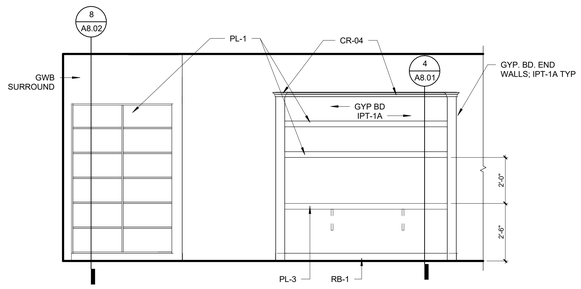
3 RM 218 - 2 BED - WEST ELEVATION
3/8" = 1'-0"



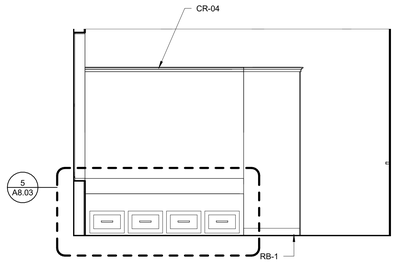
4 RM 218 - 2 BED - SOUTH ELEVATION
3/8" = 1'-0"



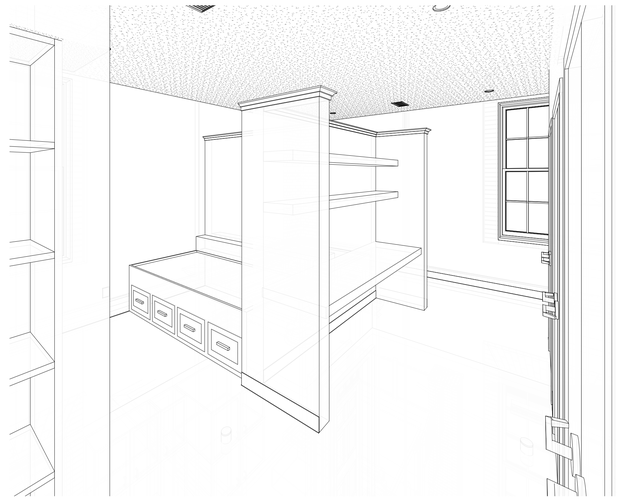
5 RM 220 - 3 BED - SOUTH ELEVATION
3/8" = 1'-0"



6 RM 220 - 3 BED - NORTH ELEVATION
3/8" = 1'-0"



7 RM 220 - 3 BED - EAST ELEVATION
3/8" = 1'-0"



8 3D VIEW - BEDROOM TYPE E

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

ENL PLANS & INT ELEVATIONS - BEDROOM TYPES D & E

Sheet No.

A7.10

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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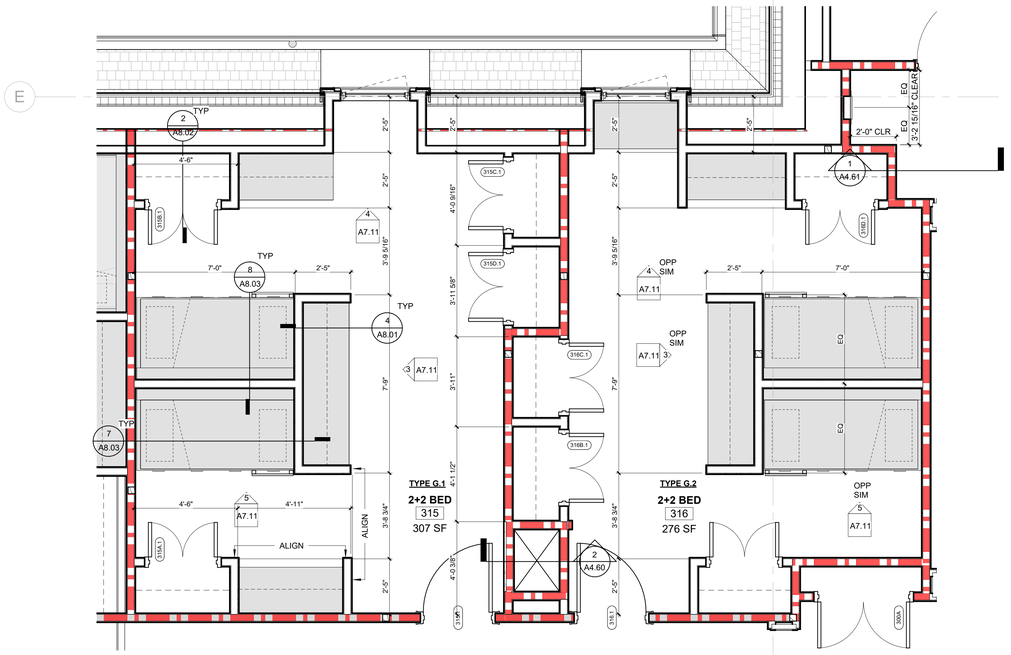
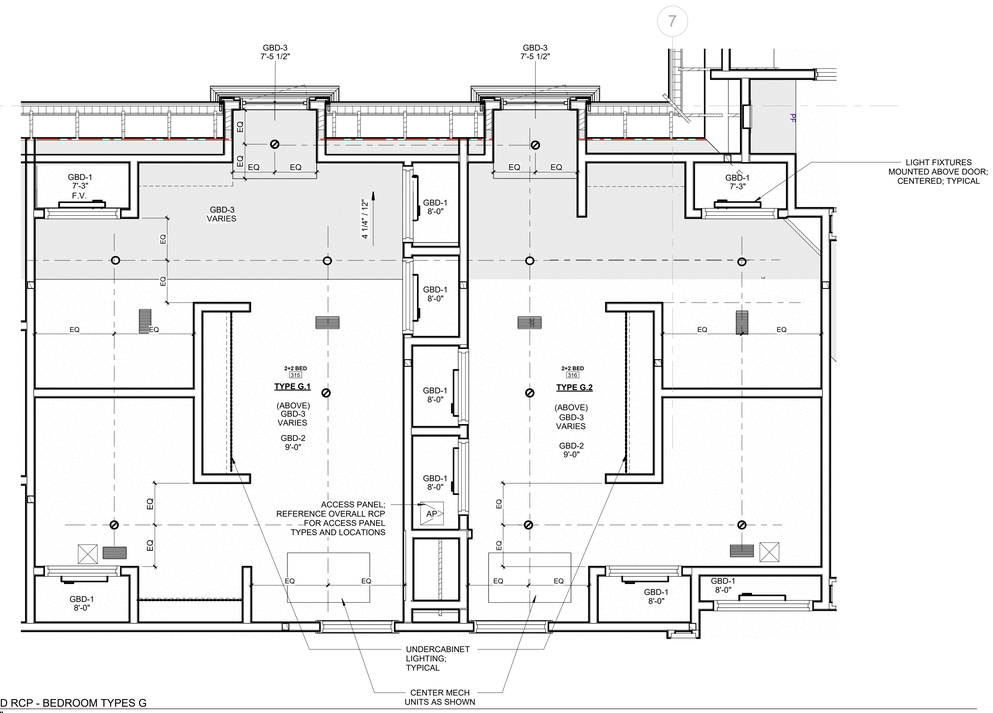
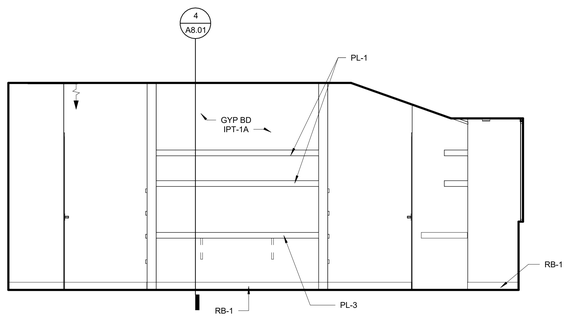
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



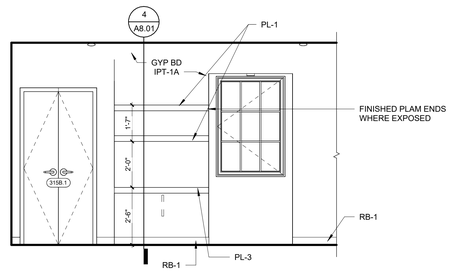
1 ENLARGED PLAN - BEDROOM TYPES G
3/8" = 1'-0"



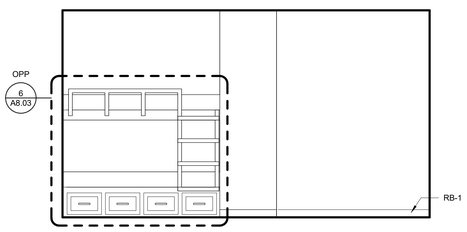
2 ENLARGED RCP - BEDROOM TYPES G
3/8" = 1'-0"



3 RM 310 - 2+2 BED - WEST ELEVATION
3/8" = 1'-0"



4 RM 310 - 2+2 BED - NORTH ELEVATION
3/8" = 1'-0"



5 RM 310 - NORTH ELEVATION
3/8" = 1'-0"



6 3D VIEW - BEDROOM TYPE G

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STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
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Date
12.18.2025
Title
ENL PLANS & INT ELEVATIONS - BEDROOM TYPE G
Sheet No.
A7.11

Project Name
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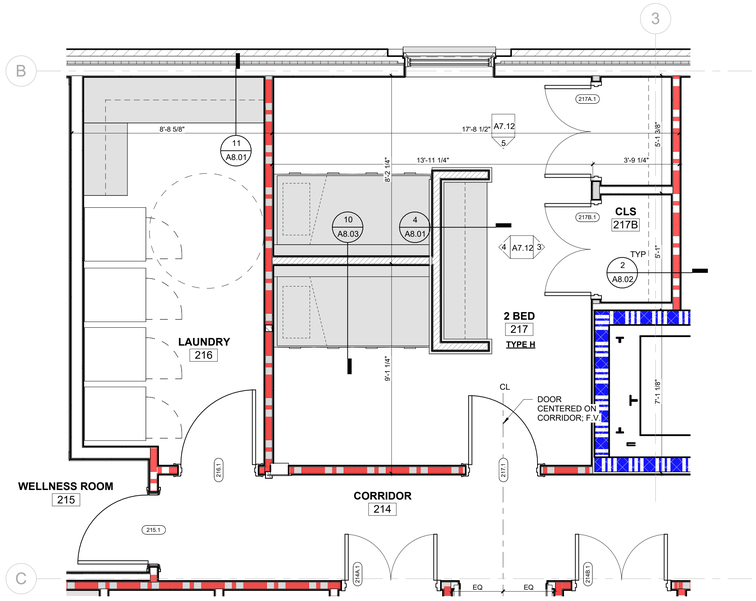
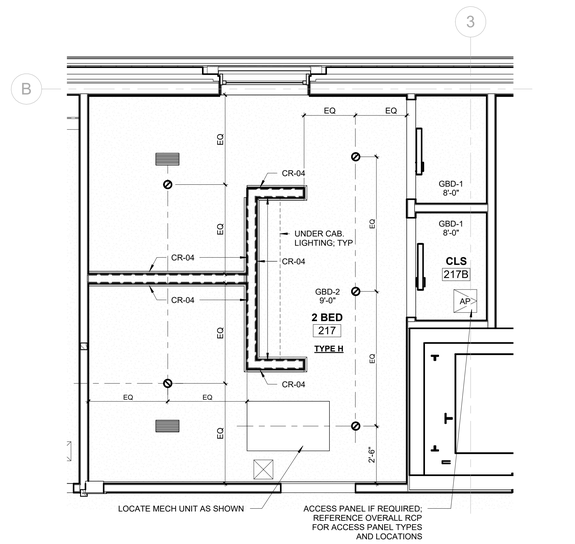
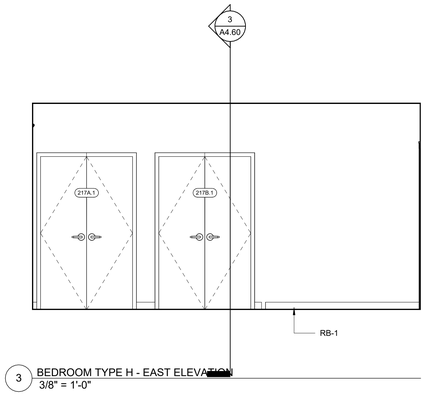
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



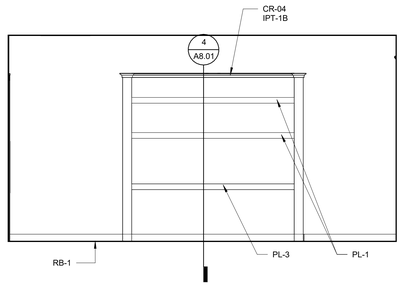
1 ENLARGED PLAN - BEDROOM TYPE H
3/8" = 1'-0"



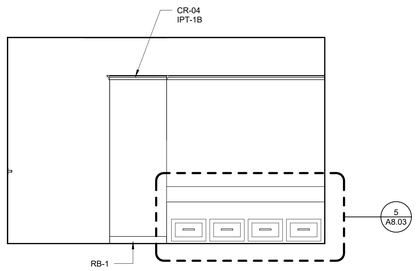
2 ENLARGED RCP - BEDROOM TYPE H
3/8" = 1'-0"



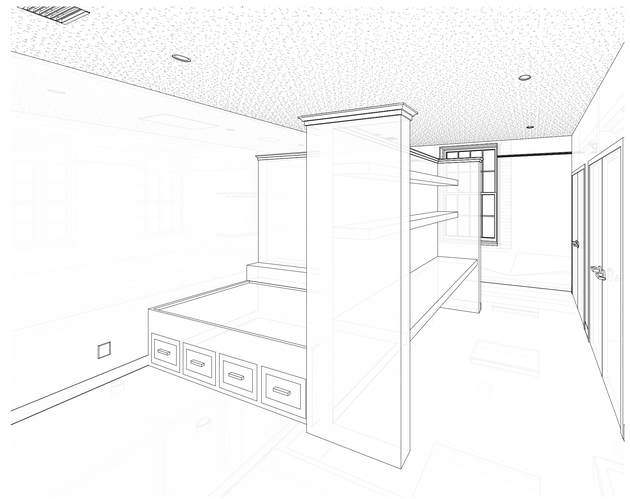
3 BEDROOM TYPE H - EAST ELEVATION
3/8" = 1'-0"



4 BEDROOM TYPE H - WEST ELEVATION
3/8" = 1'-0"



5 BEDROOM TYPE H - SOUTH ELEVATION
3/8" = 1'-0"



7 3D VIEW - BEDROOM TYPE H

Project Name
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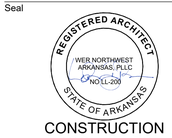
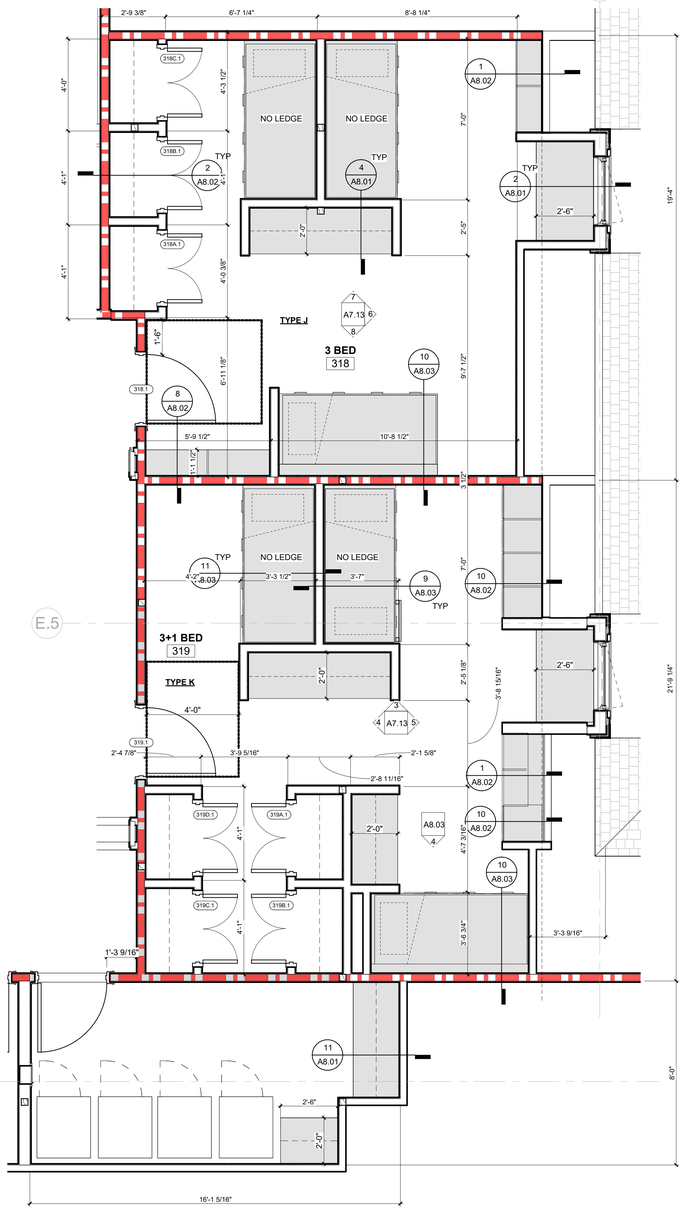


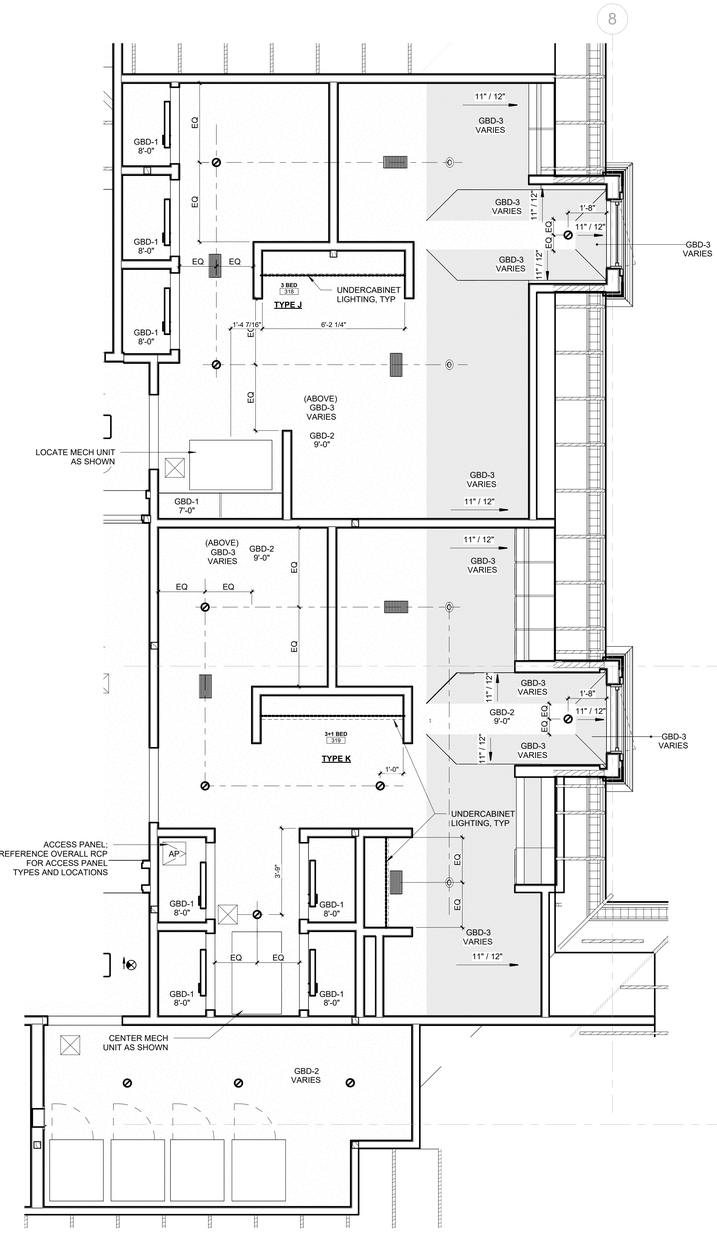
CONSTRUCTION DOCUMENTS

No.	Issue	Date

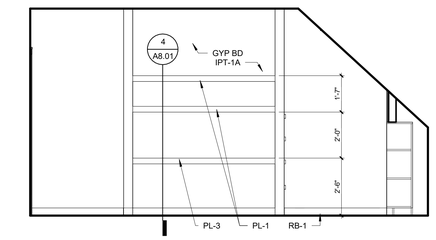
Job No.
UAFAPH-21.01
Date
12.18.2025
Title
ENL PLANS & INT ELEVATIONS - BEDROOM TYPE H
Sheet No.
A7.12



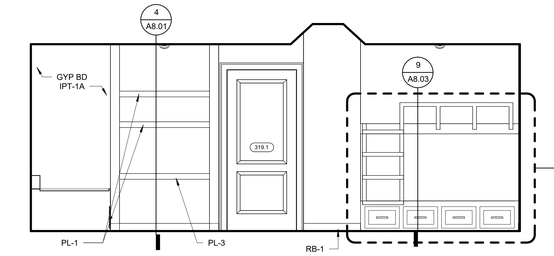
1 ENLARGED PLAN - BEDROOM TYPES J & K
3/8" = 1'-0"



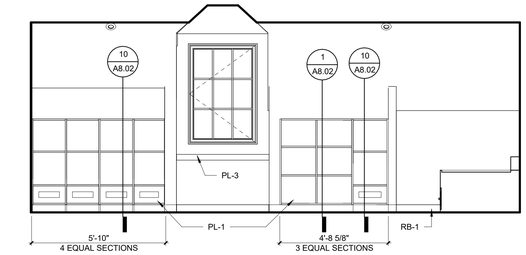
2 ENLARGED RCP - BEDROOM TYPES J & K
3/8" = 1'-0"



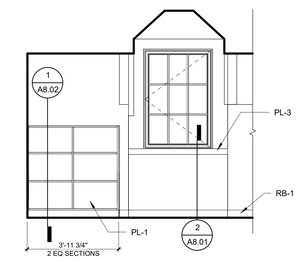
3 RM 316 - 3 BED - NORTH ELEVATION
3/8" = 1'-0"



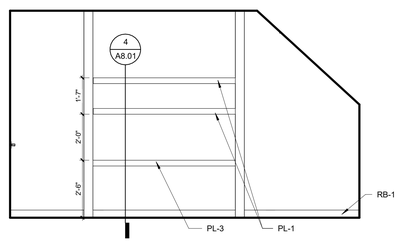
4 RM 316 - 3 BED - WEST ELEVATION
3/8" = 1'-0"



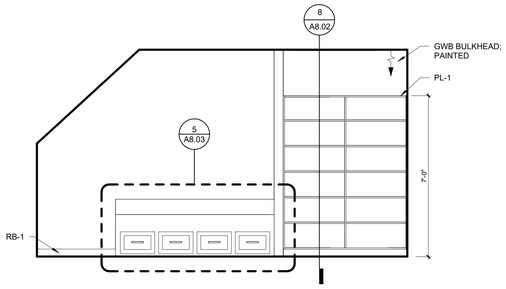
5 RM 316 - 3 BED - EAST ELEVATION
3/8" = 1'-0"



6 RM 318 - 3 BED - EAST ELEVATION
3/8" = 1'-0"



7 RM 318 - 3 BED - NORTH ELEVATION
3/8" = 1'-0"



8 RM 318 - 3 BED - SOUTH ELEVATION
3/8" = 1'-0"



9 3D VIEW - BEDROOM TYPE J

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

ENL PLANS & INT ELEVATIONS - BEDROOM TYPES J & K

Sheet No.

A7.13

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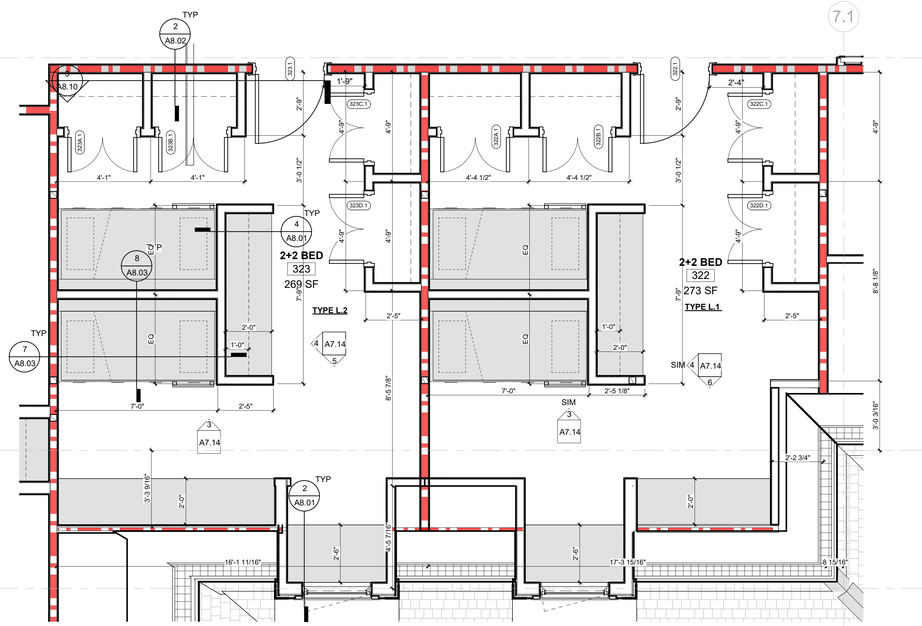
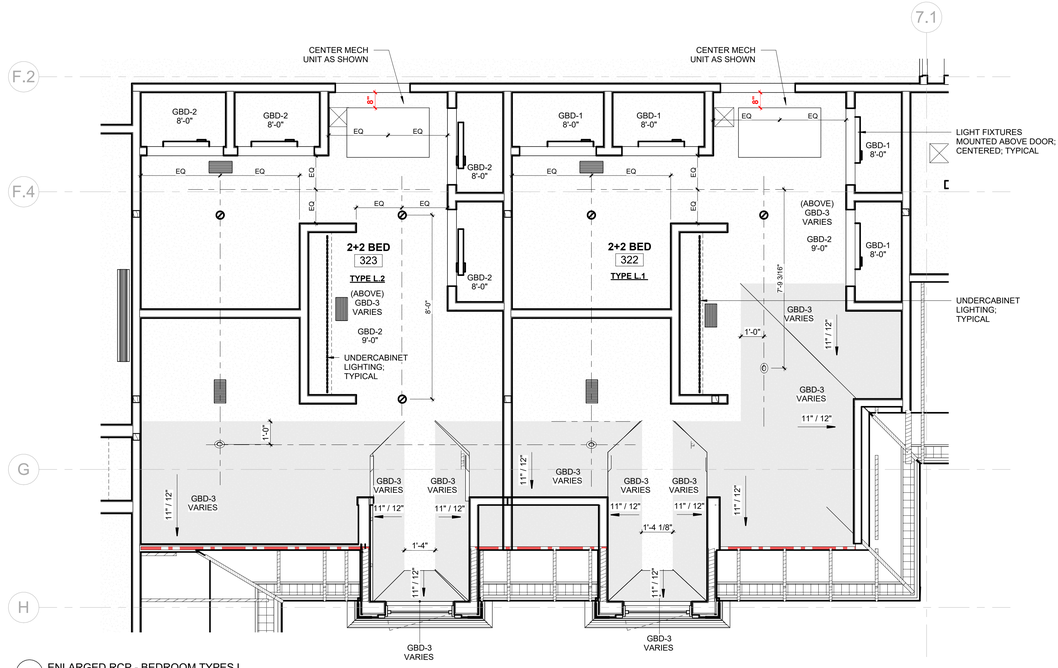
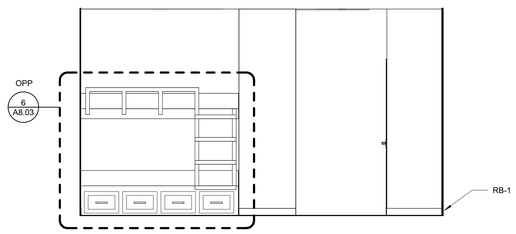
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



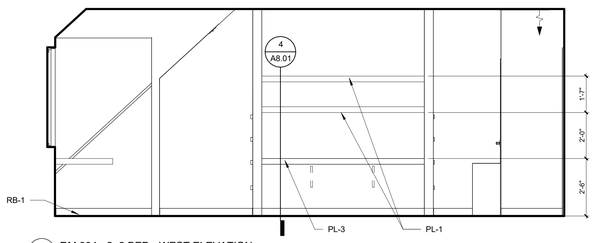
1 ENLARGED PLAN - BEDROOM TYPES L
3/8" = 1'-0"



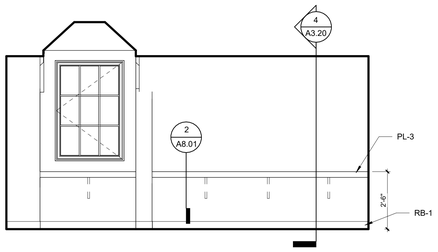
2 ENLARGED RCP - BEDROOM TYPES L
3/8" = 1'-0"



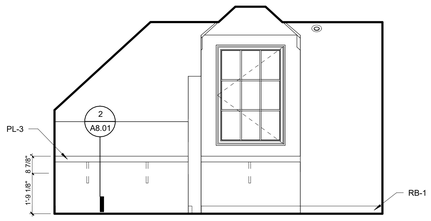
3 RM 304 - 2+2 BED - NORTH ELEVATION
3/8" = 1'-0"



4 RM 304 - 2+2 BED - WEST ELEVATION
3/8" = 1'-0"



5 RM 304 - 2+2 BED - SOUTH ELEVATION
3/8" = 1'-0"



6 RM 308 - 2+2 BED - SOUTH ELEVATION
3/8" = 1'-0"



7 3D VIEW - BEDROOM TYPE L

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NO. L-200
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
ENL PLANS & INT ELEVATIONS - BEDROOM TYPE L

Sheet No.
A7.14

Project Name
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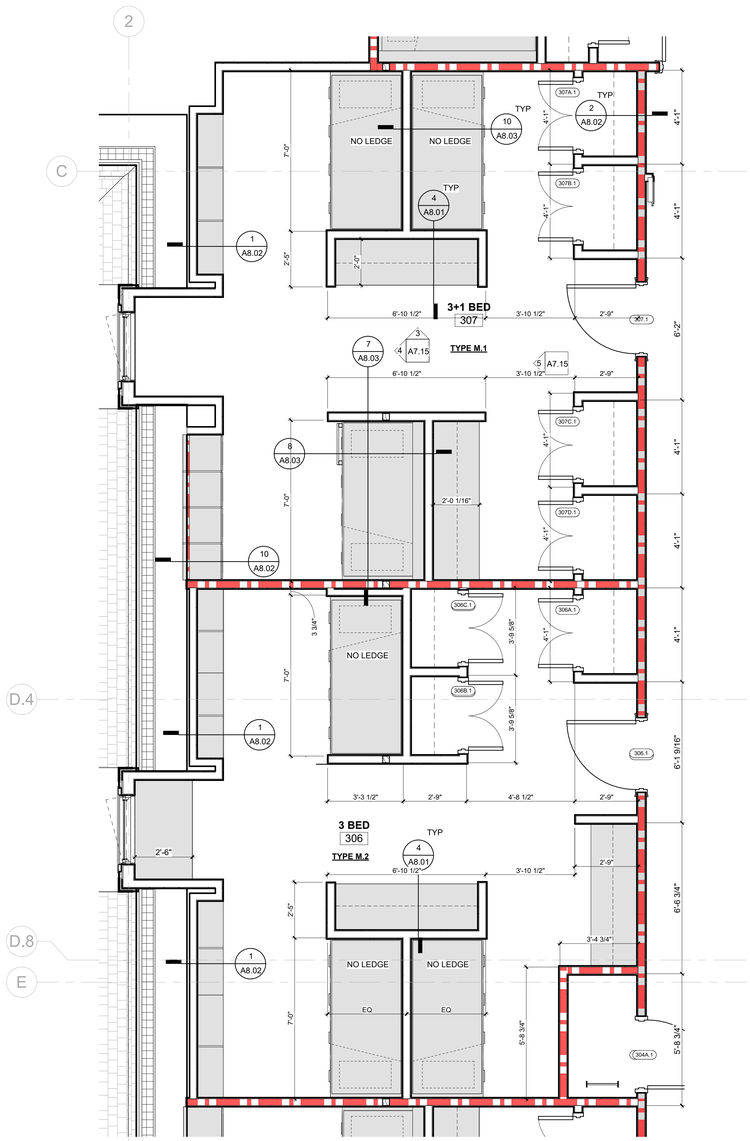
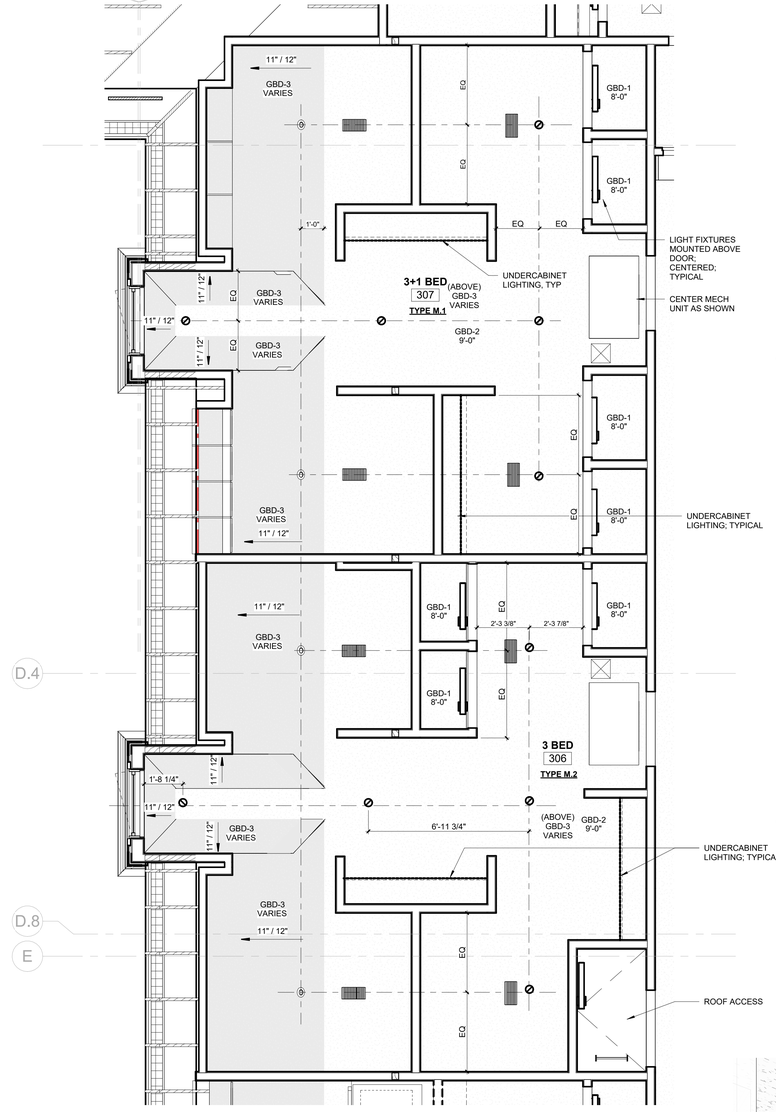
12/18/2025 6:02:09 PM

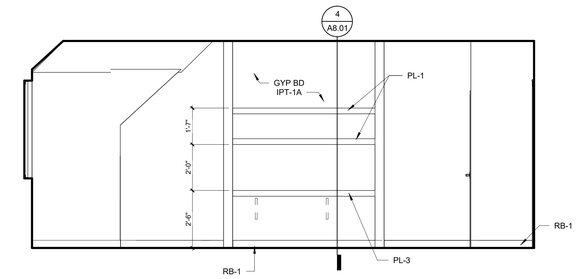
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



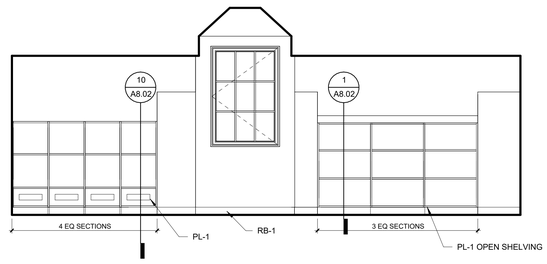
1 ENLARGED PLAN - BEDROOM TYPES M.1 & M.2
3/8" = 1'-0"



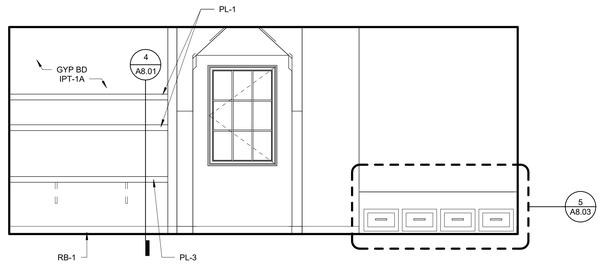
2 ENL RCP - BEDROOM TYPES M.1 & M.2
3/8" = 1'-0"



3 RM 321 - 3+1 BED - NORTH
3/8" = 1'-0"



4 RM 321 - 3+1 BED - WEST
3/8" = 1'-0"



5 RM 321 - 3+1 BED - ELEVATION
3/8" = 1'-0"



7 3D VIEW - BEDROOM TYPE M

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title ENL PLANS & INT ELEVATIONS - BEDROOM TYPES M
Sheet No. **A7.15**

Project Name
Autodesk Docs://Alpha Phi/UAFAPH2.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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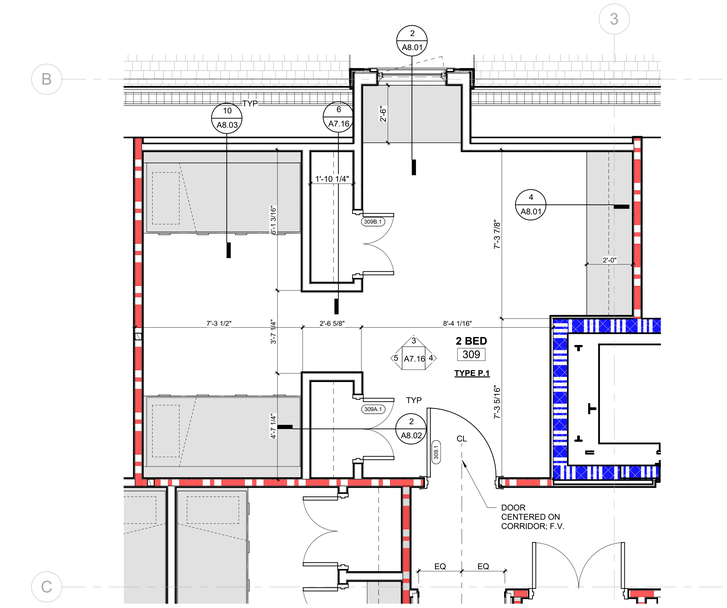
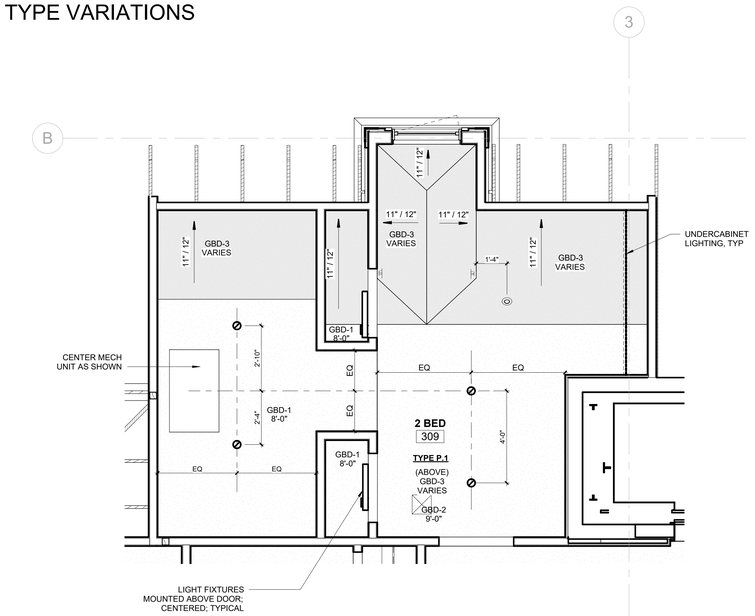
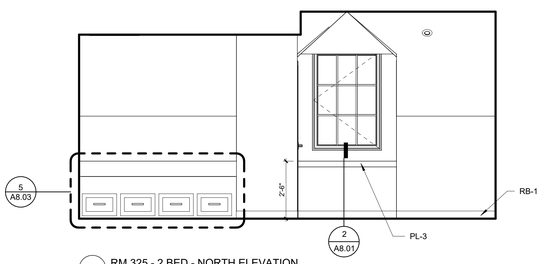
GENERAL NOTE: REFER TO OVERALL DIMENSION PLANS FOR BEDROOM TYPE VARIATIONS



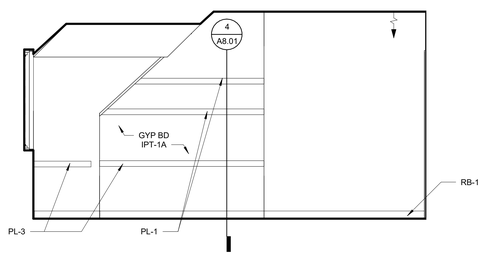
1 ENLARGED PLAN - BEDROOM TYPE P
3/8" = 1'-0"



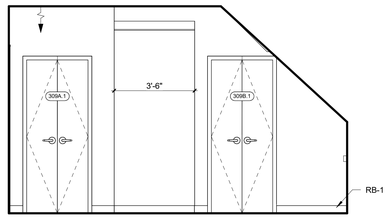
2 ENLARGED RCP - BEDROOM TYPE P
3/8" = 1'-0"



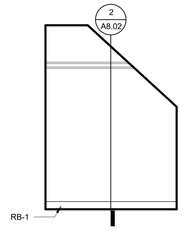
3 RM 325 - 2 BED - NORTH ELEVATION
3/8" = 1'-0"



4 RM 325 - 2 BED - EAST ELEVATION
3/8" = 1'-0"



5 RM 325 - 2 BED - WEST ELEVATION
3/8" = 1'-0"



6 RM 325 - 2 BED - NORTH CLOSET ELEVATION
3/8" = 1'-0"



8 3D VIEW - BEDROOM TYPE P

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No.	Issue	Date

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UAFAPH-21.01
Date
12.18.2025
Title

ENL PLANS & INT ELEVATIONS - BEDROOM TYPE P

Sheet No.

A7.16

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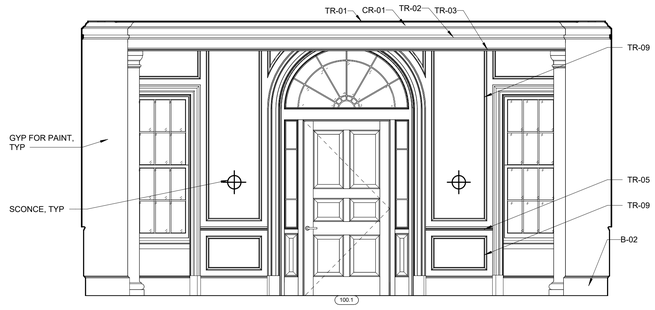
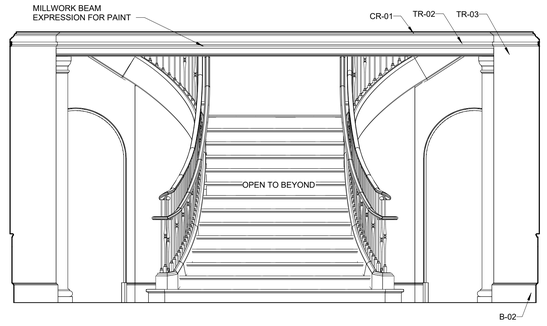
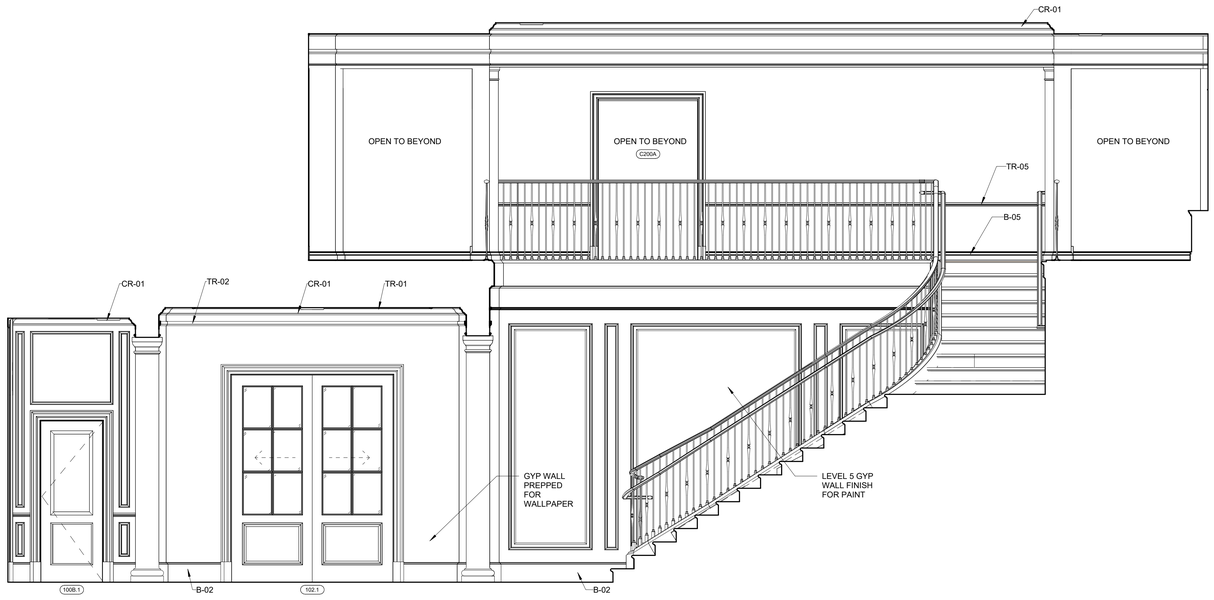


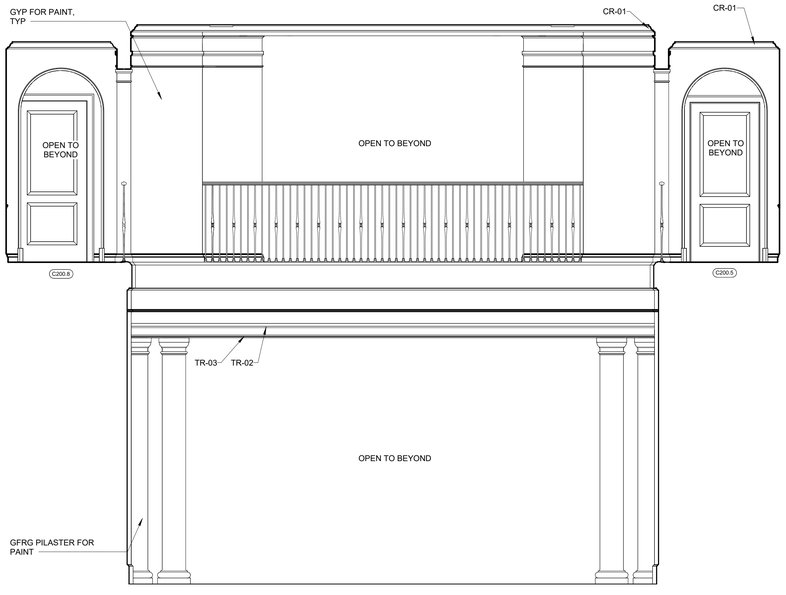
6 RM 100 - FOYER - SOUTH ELEVATION
3/8" = 1'-0"



3 RM 100 - FOYER - NORTH ELEVATION
3/8" = 1'-0"



5 RM 100, 101, 102 - FOYER, STAIR HALL - WEST ELEVATION
3/8" = 1'-0"



2 RM 101 - STAIR HALL - SOUTH ELEVATION
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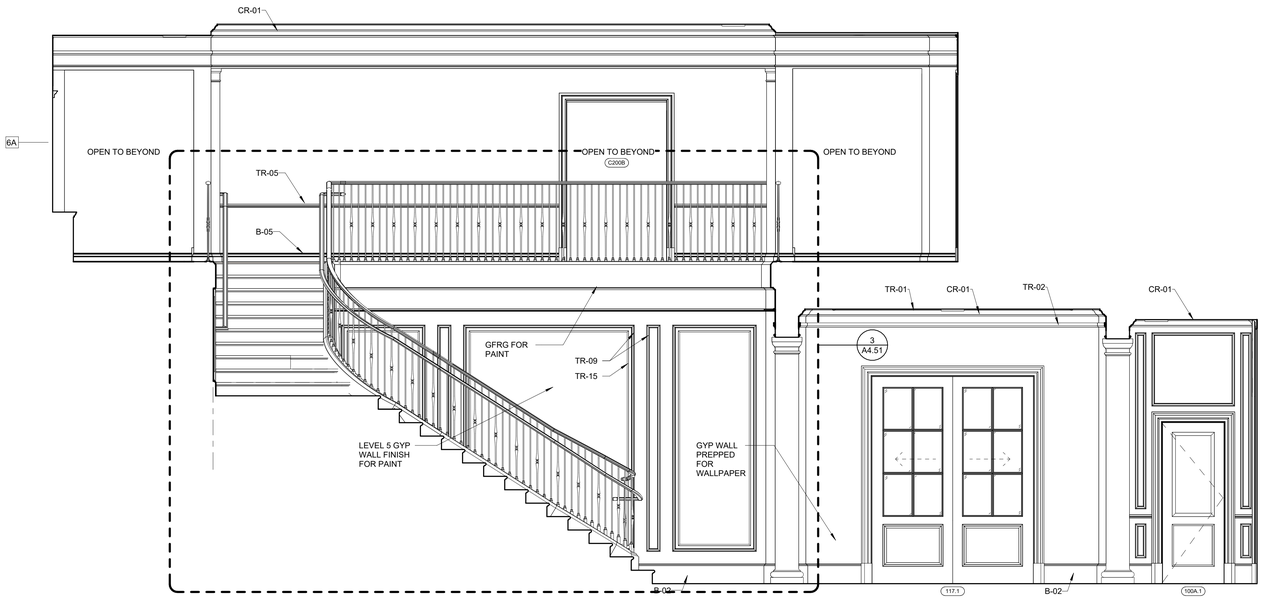

4 RM 100, 101, 102 - FOYER, STAIR HALL - EAST ELEVATION
3/8" = 1'-0"



1 RM 101 - STAIR HALL - NORTH ELEVATION
3/8" = 1'-0"

Project Name
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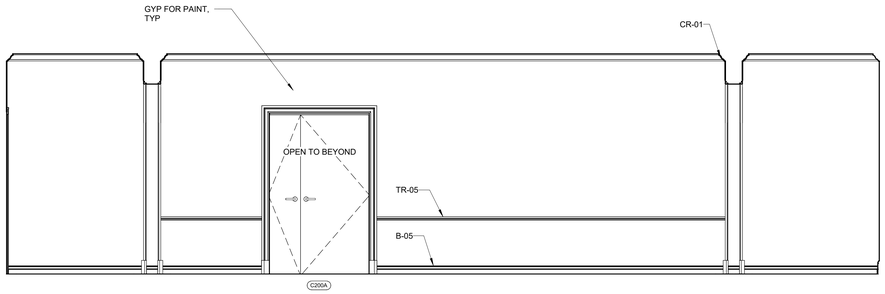
CONSTRUCTION DOCUMENTS

No.	Issue	Date

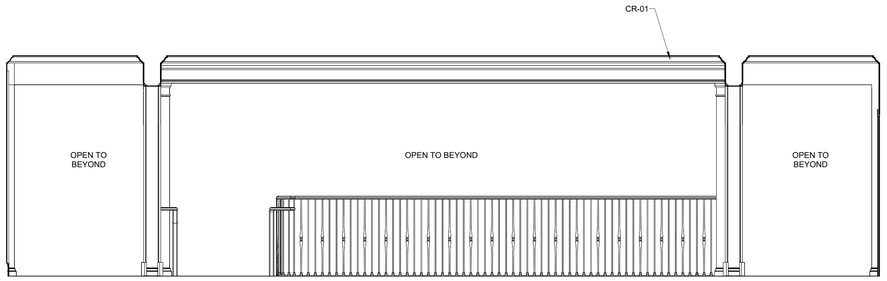
Job No.
UAFAPH-21.01
Date
12.18.2025
Title

INT ELEVATIONS - FOYER & STAIR HALL

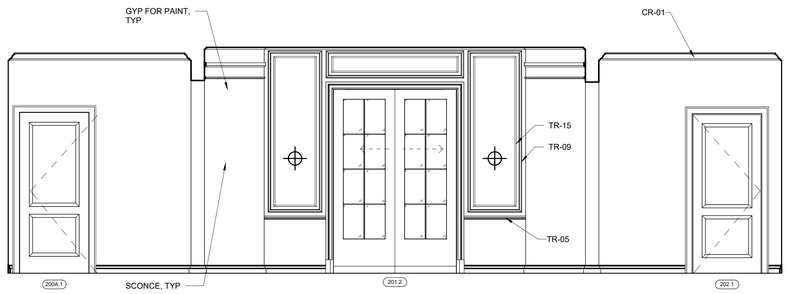
Sheet No.
A7.21



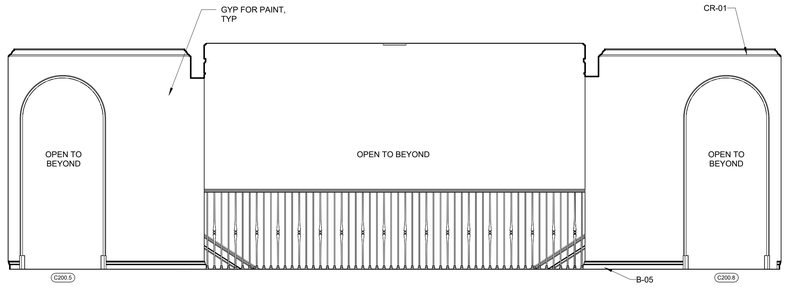
8 RM 200 - STAIR HALL - WEST ELEVATION
3/8" = 1'-0"



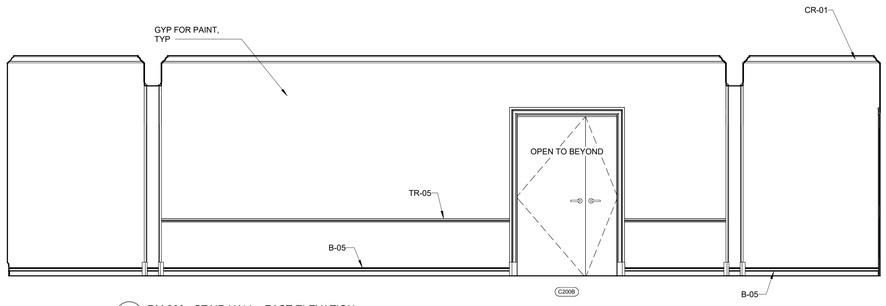
4 RM 200 - STAIR HALL - WEST RAILING ELEVATION
3/8" = 1'-0"



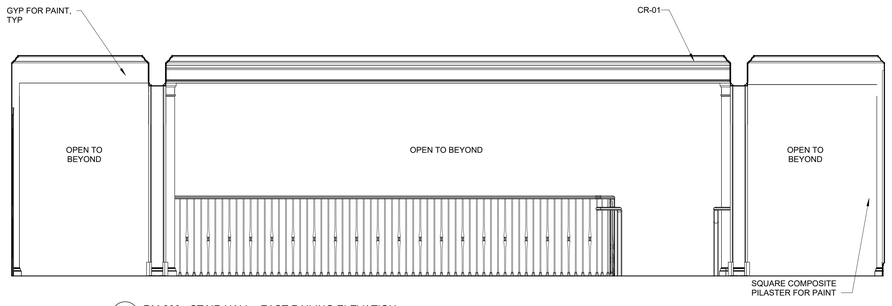
7 RM 200 - STAIR HALL - SOUTH ELEVATION
3/8" = 1'-0"



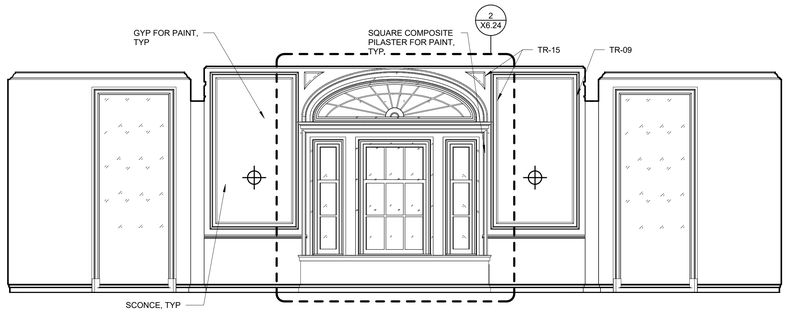
3 RM 200 - STAIR HALL - SOUTH RAILING ELEVATION
3/8" = 1'-0"



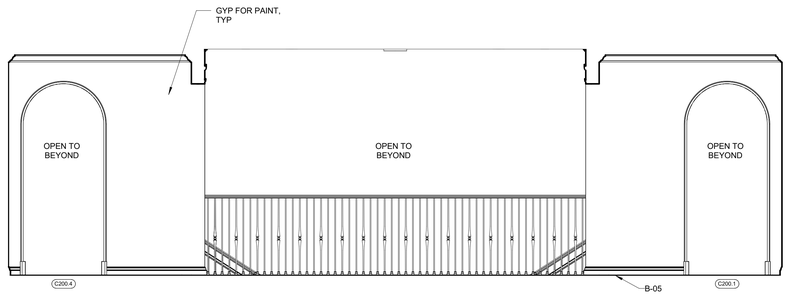
6 RM 200 - STAIR HALL - EAST ELEVATION
3/8" = 1'-0"



2 RM 200 - STAIR HALL - EAST RAILING ELEVATION
3/8" = 1'-0"



5 RM 200 - STAIR HALL - NORTH ELEVATION
3/8" = 1'-0"



1 RM 200 - STAIR HALL - NORTH RAILING ELEVATION
3/8" = 1'-0"

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Job No. UAFAPH-21.01

Date 12.18.2025

Title

INT ELEVATIONS - STAIR HALL 200

Sheet No.

A7.22

Project Name
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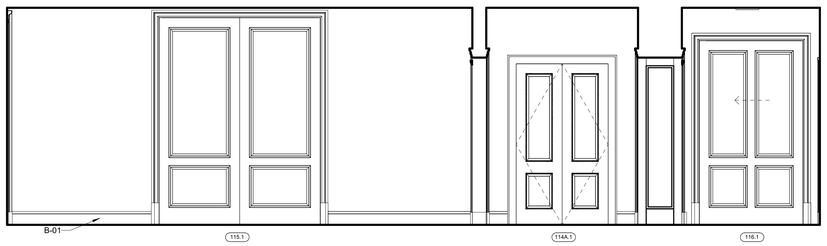
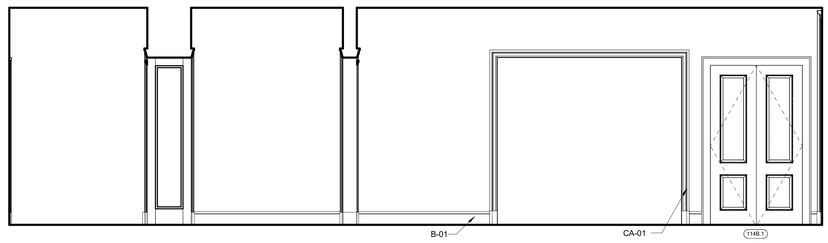
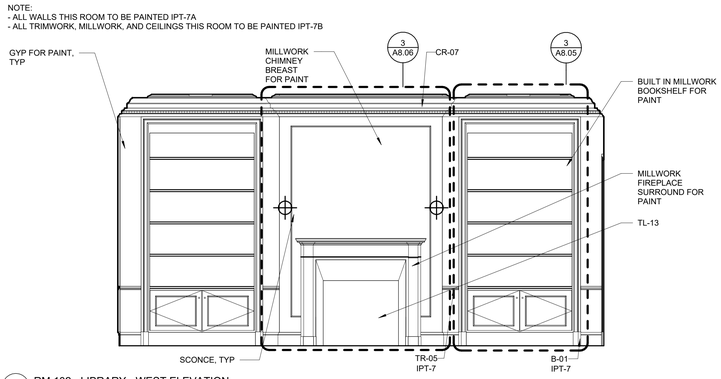


10 CORRIDOR 114 - SOUTH
3/8" = 1'-0"



9 CORRIDOR 114 - NORTH
3/8" = 1'-0"



8 RM 102 - LIBRARY - WEST ELEVATION
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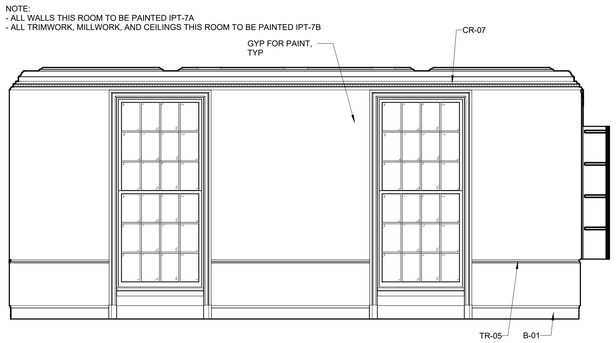
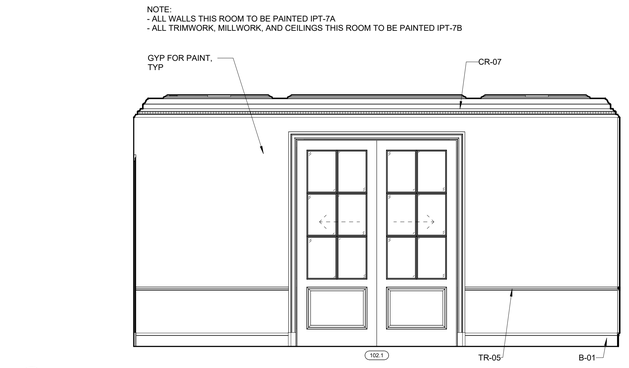
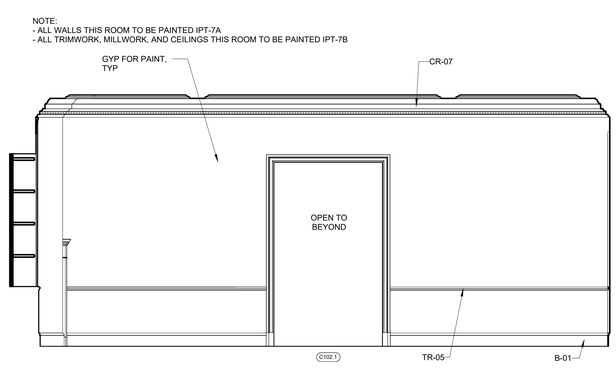


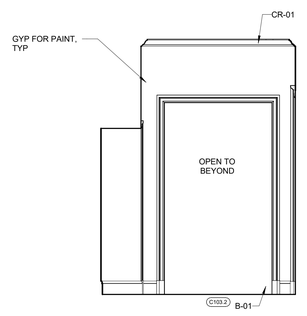
7 RM 102 - LIBRARY - SOUTH ELEVATION
3/8" = 1'-0"



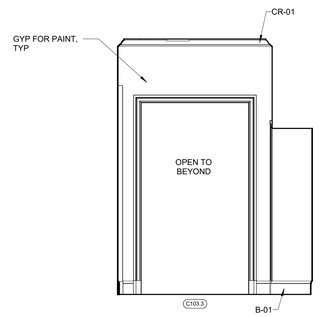
6 RM 102 - LIBRARY - EAST ELEVATION
3/8" = 1'-0"



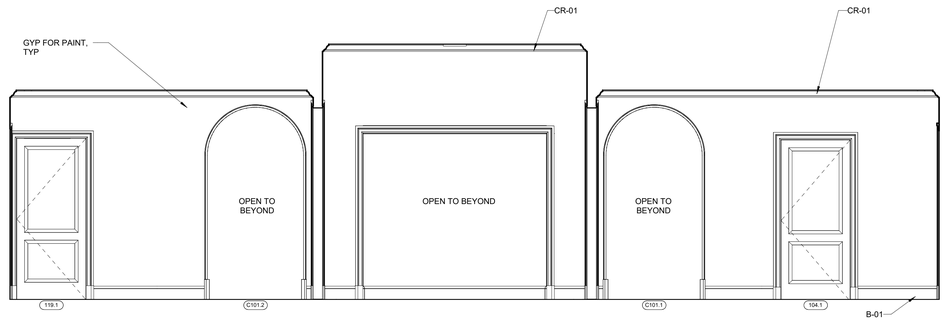
5 RM 102 - LIBRARY - NORTH ELEVATION
3/8" = 1'-0"



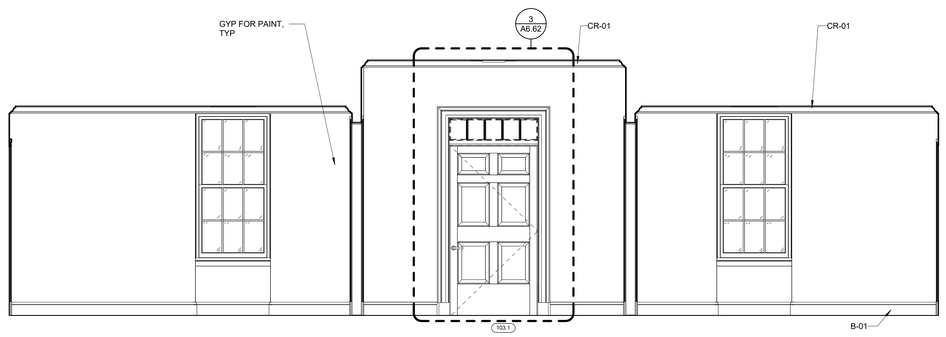
3 ROOM 103 - CORRIDOR - WEST ELEVATION
3/8" = 1'-0"



2 ROOM 103 - CORRIDOR - EAST ELEVATION
3/8" = 1'-0"



4 ROOM 103 - CORRIDOR - SOUTH ELEVATION
3/8" = 1'-0"



1 ROOM 103 - CORRIDOR - NORTH ELEVATION
3/8" = 1'-0"

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NO. CL-208
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
INT ELEVATIONS - LIBRARY & CORRIDOR 103, 114

Sheet No.
A7.23

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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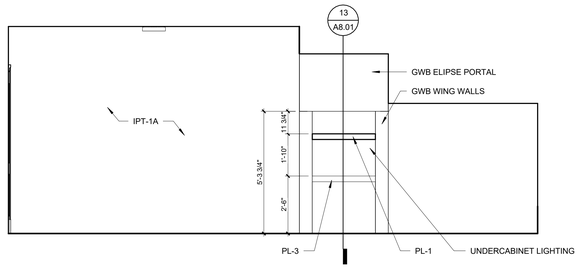
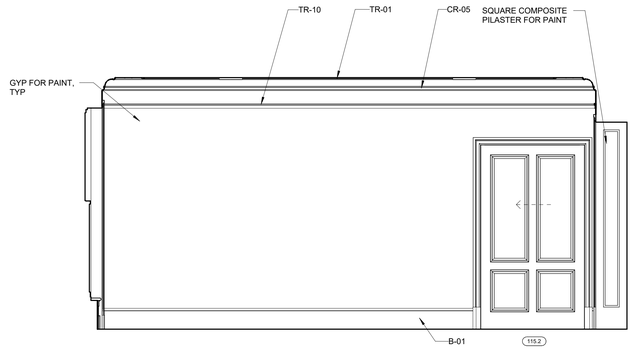
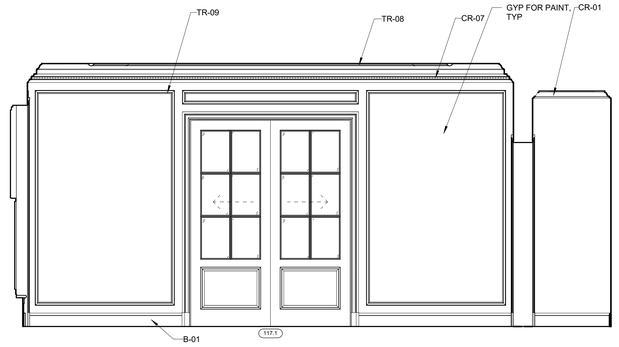


12 STUDY 301 EAST/WEST ELEVATION
3/8" = 1'-0"



8 LOUNGE - WEST ELEVATION
3/8" = 1'-0"



4 LIVING ROOM WEST ELEVATION
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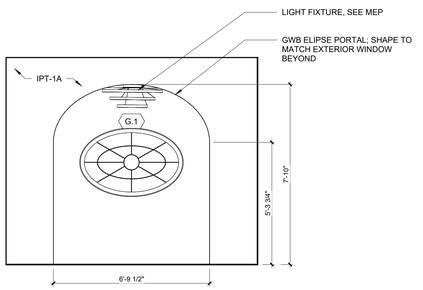
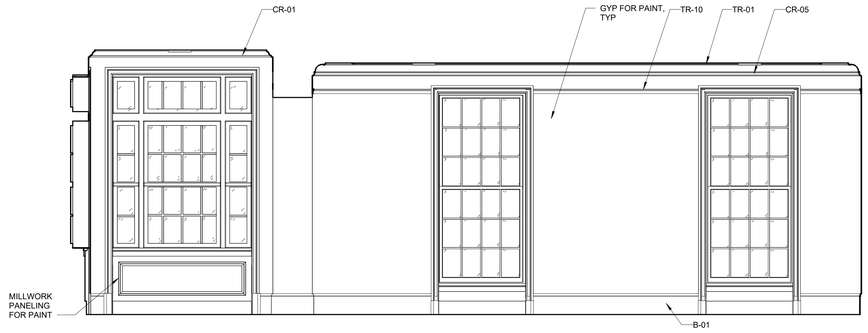
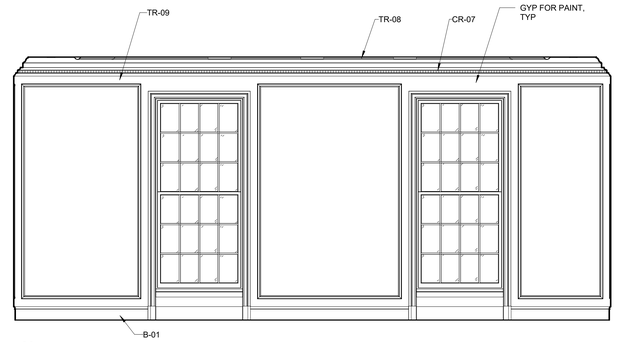


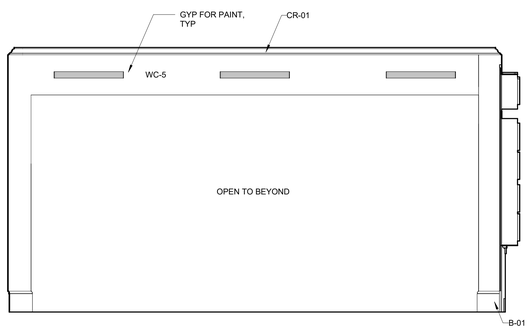
11 STUDY 301 - SOUTH ELEVATION
3/8" = 1'-0"



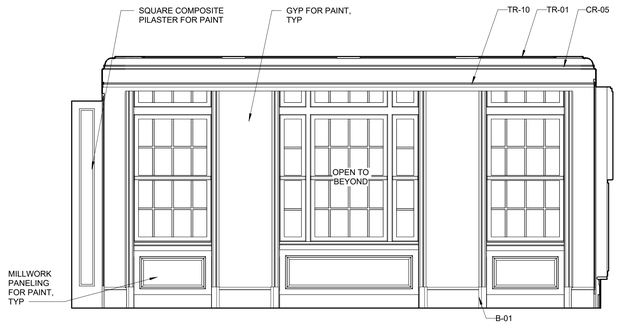
7 LOUNGE - SOUTH ELEVATION
3/8" = 1'-0"



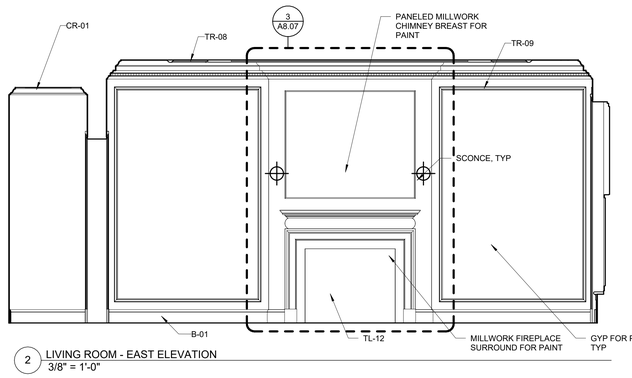
3 LIVING ROOM - SOUTH ELEVATION
3/8" = 1'-0"



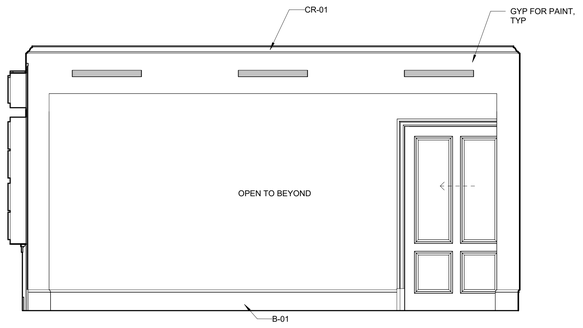
10 DINING - EAST ELEVATION
3/8" = 1'-0"



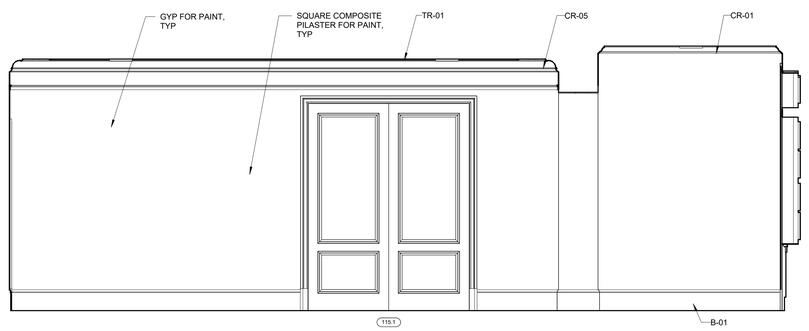
6 LOUNGE - EAST ELEVATION
3/8" = 1'-0"



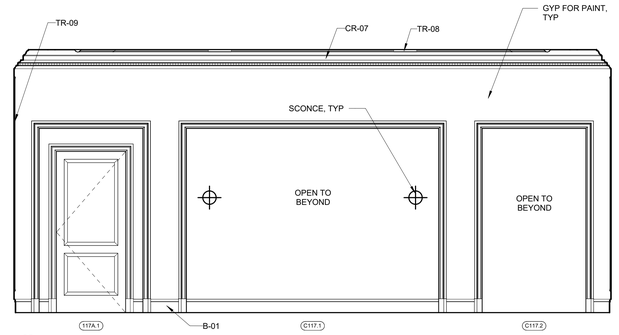
2 LIVING ROOM - EAST ELEVATION
3/8" = 1'-0"



9 LOUNGE - WEST ELEVATION
3/8" = 1'-0"



5 LOUNGE - NORTH ELEVATION
3/8" = 1'-0"



1 LIVING ROOM - NORTH ELEVATION
3/8" = 1'-0"

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REGISTERED ARCHITECT
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NO. EL-200
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title
INT ELEVATIONS - LIVING RM, LOUNGE, & STUDY 301
Sheet No.
A7.24

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
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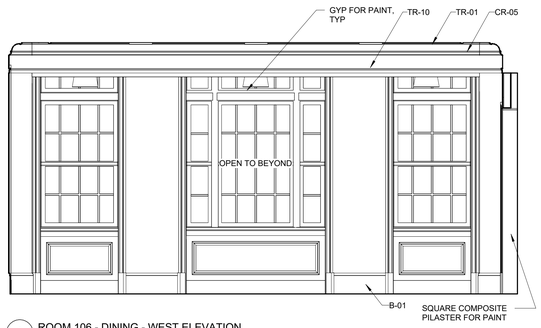
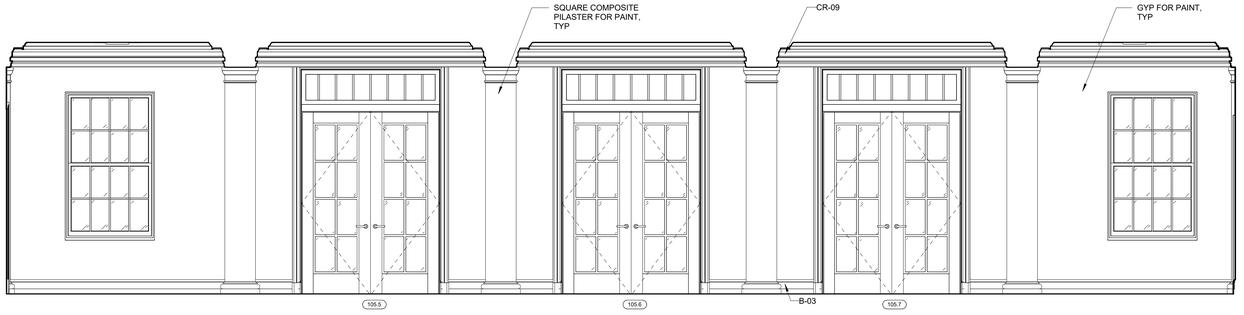


8 ROOM 106 - DINING - WEST ELEVATION
3/8" = 1'-0"



4 ROOM 105 - DINING/CHAPTER HALL - WEST ELEVATION
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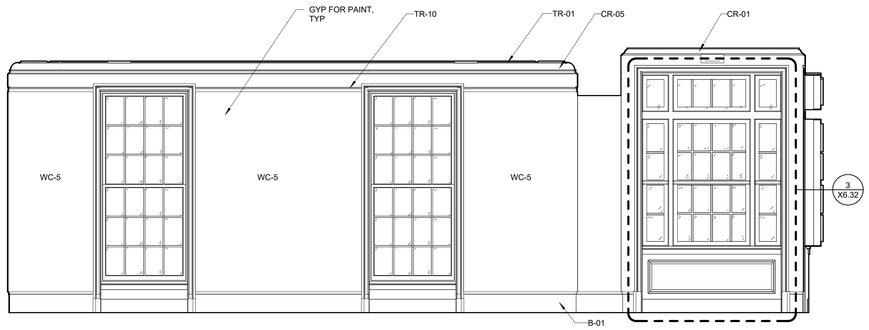
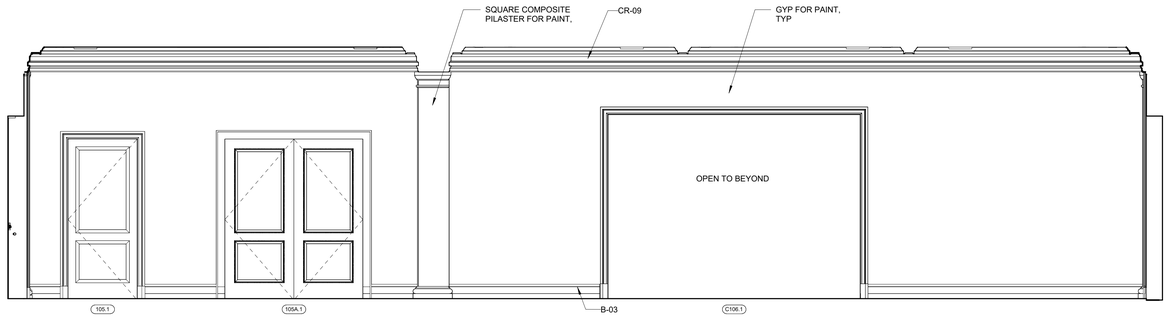
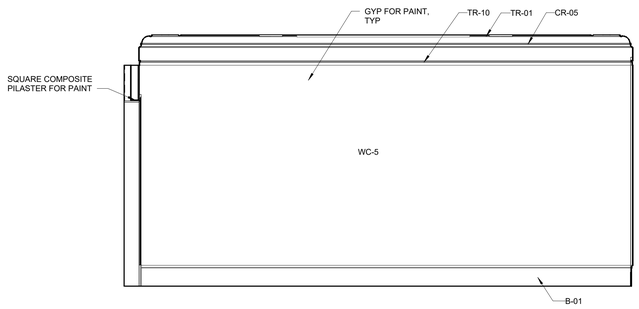


7 ROOM 106 - DINING - SOUTH ELEVATION
3/8" = 1'-0"



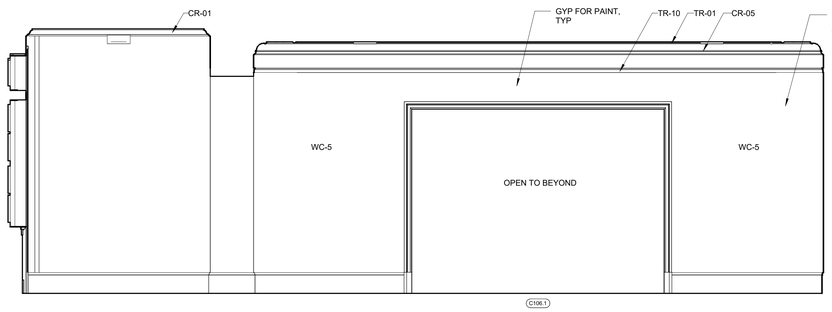
3 ROOM 105 - DINING/CHAPTER HALL - SOUTH ELEVATION
3/8" = 1'-0"



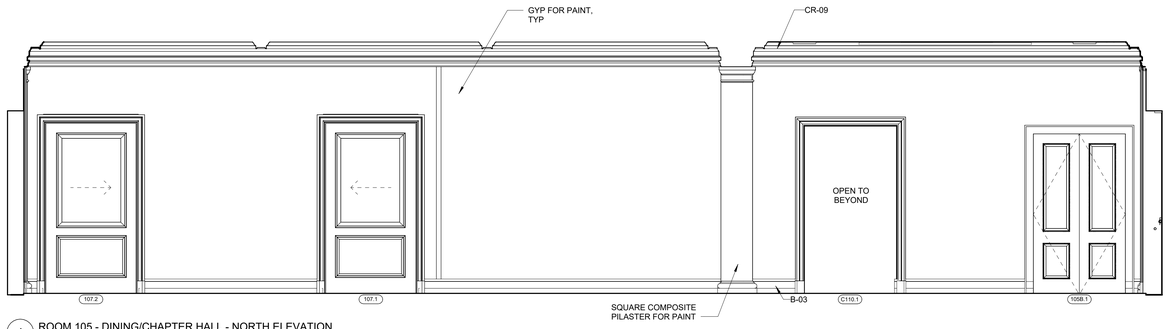
6 ROOM 106 - DINING - EAST ELEVATION
3/8" = 1'-0"



2 ROOM 105 - DINING/CHAPTER HALL - EAST ELEVATION
3/8" = 1'-0"



5 ROOM 106 - DINING - NORTH ELEVATION
3/8" = 1'-0"



1 ROOM 105 - DINING/CHAPTER HALL - NORTH ELEVATION
3/8" = 1'-0"

Project Name
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CONSTRUCTION DOCUMENTS

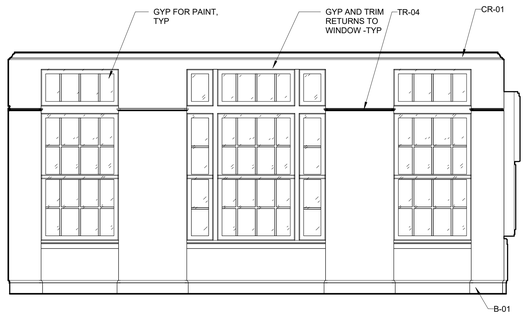
No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

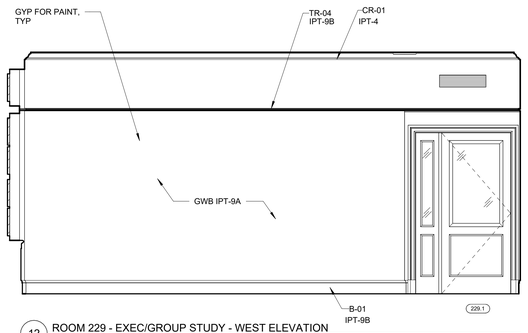
INTERIOR ELEVATIONS - DINING

Sheet No.

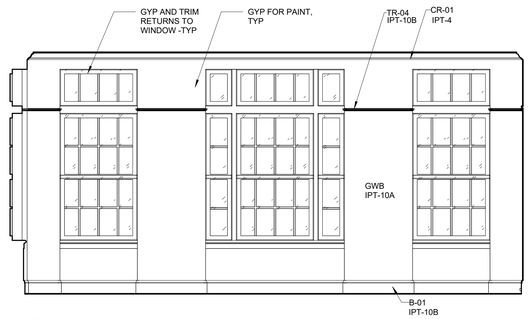
A7.25



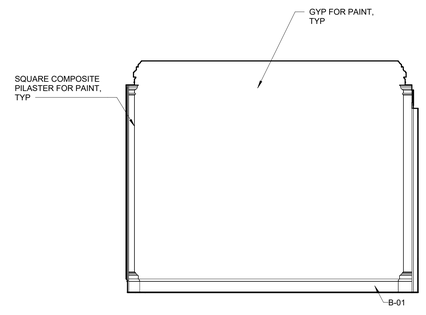
16 ROOM 215 - WELLNESS - WEST ELEVATION
3/8" = 1'-0"



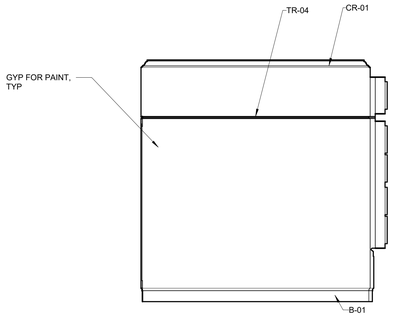
12 ROOM 229 - EXEC/GROUP STUDY - WEST ELEVATION
3/8" = 1'-0"



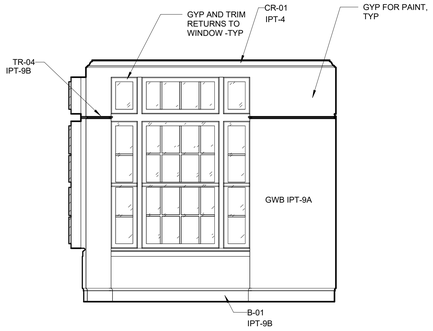
8 ROOM 207 - LOUNGE - WEST ELEVATION
3/8" = 1'-0"



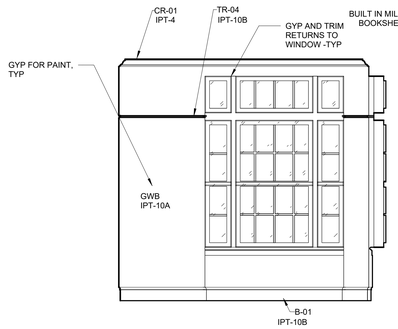
4 ROOM 201 - STUDY - WEST ELEVATION
3/8" = 1'-0"



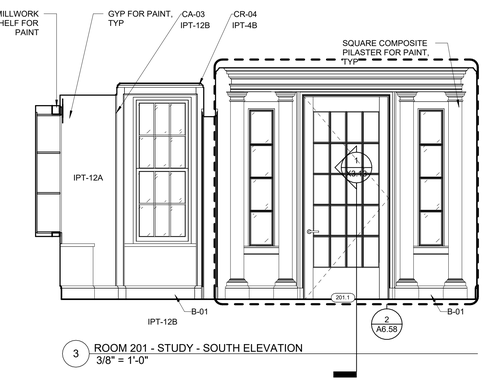
15 ROOM 215 - WELLNESS - SOUTH ELEVATION
3/8" = 1'-0"



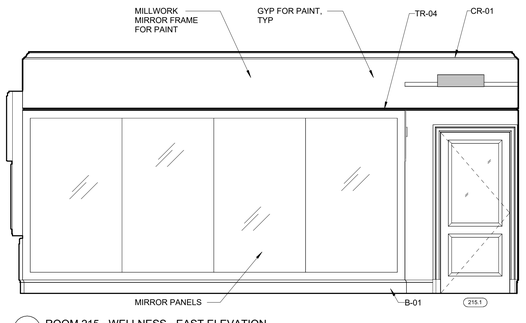
11 ROOM 229 - EXEC/GROUP STUDY - SOUTH ELEVATION
3/8" = 1'-0"



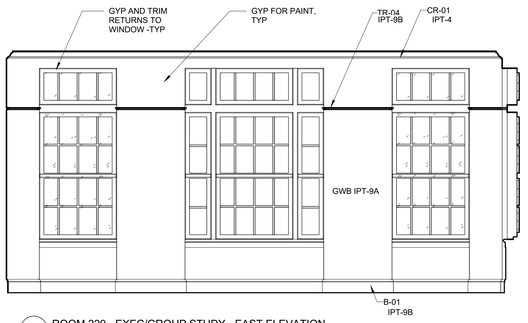
7 ROOM 207 - LOUNGE - SOUTH ELEVATION
3/8" = 1'-0"



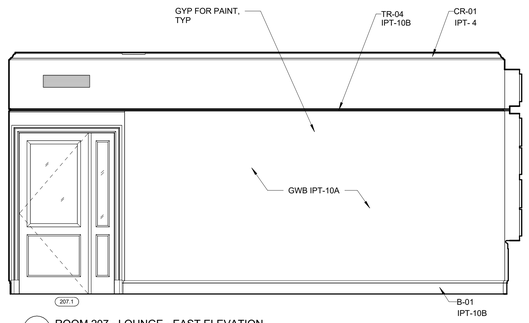
3 ROOM 201 - STUDY - SOUTH ELEVATION
3/8" = 1'-0"



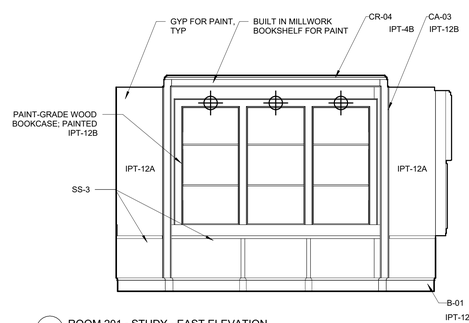
14 ROOM 215 - WELLNESS - EAST ELEVATION
3/8" = 1'-0"



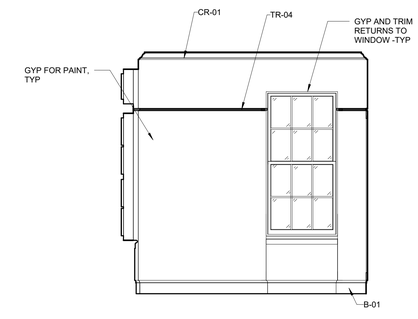
10 ROOM 229 - EXEC/GROUP STUDY - EAST ELEVATION
3/8" = 1'-0"



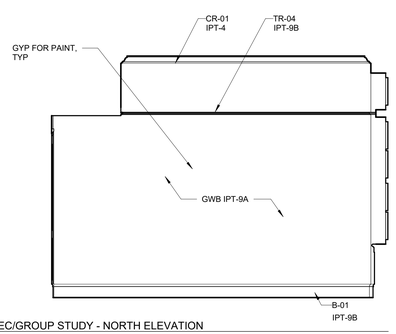
6 ROOM 207 - LOUNGE - EAST ELEVATION
3/8" = 1'-0"



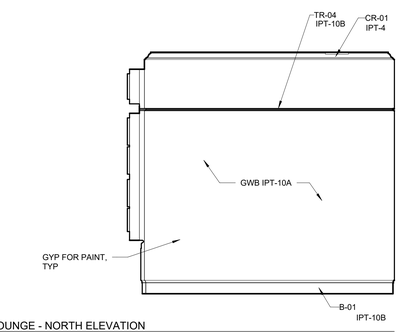
2 ROOM 201 - STUDY - EAST ELEVATION
3/8" = 1'-0"



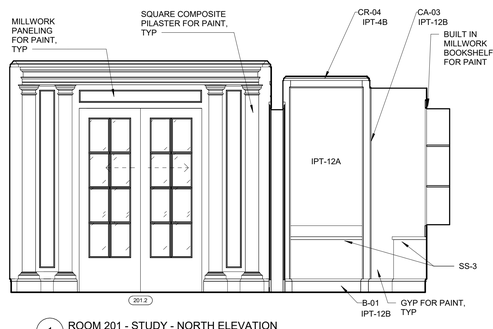
13 ROOM 215 - WELLNESS - NORTH ELEVATION
3/8" = 1'-0"



9 ROOM 229 - EXEC/GROUP STUDY - NORTH ELEVATION
3/8" = 1'-0"



5 ROOM 207 - LOUNGE - NORTH ELEVATION
3/8" = 1'-0"



1 ROOM 201 - STUDY - NORTH ELEVATION
3/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

INTERIOR ELEVATIONS
Sheet No.
A7.26

Project Name
Autodesk Docs://Alpha Phi/UAFAPH42.01-NWA-UA ALPHA PHI HOUSE-250117.rvt
12/18/2025 6:02:44 PM

INTERIOR FINISHES

PRODUCT CODE	PRODUCT DESCRIPTION	MANUFACTURER	PRODUCT #/COLOR #
WD-1	ENGINEERED HARDWOOD - PLANKS	MIRAGE	Flair - Sailing Stone - White Oak R&Q - Character Brushed (Sheen : Cashmere) - 5" planks
WD-2	ENGINEERED HARDWOOD - CHEVRON PLANKS	MIRAGE	Flair - Sailing Stone - White Oak R&Q - Character Brushed (Sheen : Cashmere) - 5" planks
WD-3	ENGINEERED HARDWOOD - HERRINGBONE PLANKS	MIRAGE	Flair - Sailing Stone - White Oak R&Q - Character Brushed (Sheen : Cashmere) - 5" planks
ST-1	STONE FLOORING	ARTISTIC TILE	Thassos Broken Joint 1CM, HONED
ST-2	STONE FLOORING	ARTISTIC TILE	Rosa Portogallo Broken Joint 1CM; HONED
LVT-1	LUXURY VINYL TILE	INTERFACE	NATURAL WOODGRAINS 4.5MM; COLOR: A00204 BEECH SIZE: 9.845 in x 39.37 in INSTALLATION METHOD: 1/3 STAGGER RUNNING BOND
LVT-1 (EA)	LUXURY VINYL TILE WITH EPOXY ADHESIVE	SAME AS LVT-1	SAME AS LVT-1 (IC TO USE EPOXY ADHESIVE FOR PROTECTION IN WET LOCATIONS
TL-1	PORCELAIN TILE	TILEBAR	Boscato, Cream Matte, 12x24
TB-1	6" TILE BASE (TO MATCH TL-2)	DALTILE	CLASSIC COLOR WHEEL COLLECTION - GLAZED CERAMIC; COLOR: GLOSSY WHITE 0100 TOILET ROOMS: 6" FLAT TOP COVE BASE SHOWERS: NO COVE BASE NON-TILED WALLS: 6" SANITARY COVE BASE GROUT: CUSTOM 545 BLEACHED WOOD
TB-2	BASE TILE	UNITED TILE	CALACATTA LAPATTO HONED 3X24 WITH PENCIL TILE AT TOP OF BASE
TL-2	SUBWAY WALL TILE	DALTILE	CLASSIC COLOR WHEEL COLLECTION - GLAZED CERAMIC; COLOR: GLOSSY WHITE 0100 WALL TILE: 4X16 CHALLENGE (ALL LOCATIONS): 26CR 2X6 TOILET ROOMS: 6" FLAT TOP COVE BASE SHOWERS: NO COVE BASE NON-TILED WALLS: 6" SANITARY COVE BASE GROUT: CUSTOM 545 BLEACHED WOOD INSTALLATION PATTERN: 1/4 STAGGER RUNNING BOND
TL-4	MOSAIC TILE	DALTILE	Keystones Colorbody Porcelain Mosaics - 1X1 Hexagon with Border Pattern (DM6501) COLORS: ARCTIC WHITE D617 (main), WATERFALL D169 (accent)
TL-5	WALL TILE	COUNTRY FLOORS	Indigo Wash Tulips Glossy Glazed Terracotta Tile, 6"x6"x3/8"
TL-6	WALL TILE	COUNTRY FLOORS	Indigo Wash Manorca Glossy Glazed Terracotta Tile, 6"x6"x3/8"
TL-7	MOSAIC TILE	BEDROSSIANS	DEC360WHM34GI/ DEC360LAG34G; COLOR: WHITE (MAIN), LAGOON (ACCENT)
TL-9	FLOOR TILE	UNITED TILE	CALACATTA LAPATTO HONED 12X24 INSTALLATION PATTERN: 1/3 STAGGER RUNNING BOND
TL-10	WALL TILE	UNITED TILE	CALACATTA LAPATTO HONED 3X12 WITH PENCIL TILE AT TOP OF WAINSCOT INSTALLATION PATTERN: 1/3 STAGGER RUNNING BOND
TL-11	MOSAIC TILE	DALTILE	Keystones Colorbody Porcelain Mosaics - 1x1 Hexagon; COLOR: ARCTIC WHITE D617
TL-12	WALL TILE	FIRECLAY TILE	1x6 Original Ceramic Tile COLOR: TBD, Full Range of Colors for Architect Selection INSTALLATION PATTERN: HERRINGBONE
TL-13	WALL TILE	FIRECLAY TILE	1x6 Half Offset Sheeted COLOR: TBD, Full Range of Colors for Architect Selection
EPX-1 / EB-1	EPOXY FLOORING & WALL BASE	DESCO	Quartz Cremona TG; Color: Whitewater GRIT: 180
RF-1	RUBBER FLOORING	RUBBER FLOORING DIRECT	Rubber Flooring Rolls; 1/2", Black
SLC-1	SEALED CONCRETE		REFER TO SPECIFICATIONS MANUAL
FRP-1	FIBER-REINFORCED PLASTIC WALL PANELS	PANOLAM SURFACE SYSTEMS	CLASS C .075 FIBER REINFORCED PLASTIC SIZE: 4' X 8' PANELS COLOR/TEXTURE: BRIGHT WHITE - SMOOTH INSTALLATION: INCLUDE ALL TRIMS AT TOP, BOTTOM, AND CORNERS PER MANUFACTURER'S STANDARD
ACT-1	ACOUSTIC CEILING TILE (CLEANROOM)	ROCKFON	TILE: CleanSpace Pure; 24" x 24"; LAY-IN GRID: 15/16" Chicago Metallic 1200

RB-1	RUBBER BASE	JONSONITE	Traditional Wall Base 4" COLOR: 27 MIST
RB-2	RUBBER BASE	JONSONITE	Ambassador 4" COLOR: 27 MIST
SS-1	SOLID SURFACE (RESTROOMS)	WILSONART	CALACATTA PERLATO 9913SS
SS-2	SOLID SURFACE (AT WATERFOUNTAINS)	WILSONART	Frosty White
SS-3	SOLID SURFACE (2ND FL STUDY)	WILSONART	TBD; GROUP 2
QZ-1	QUARTZ COUNTERTOP	Cambria	Ella
PL-1	PLASTIC LAMINTE (BEDROOM SHELVES, LAUNDRY)	WILSONART	ALABASTER, LINEARITY FINISH
PL-2	PLASTIC LAMINTE (MAILROOM)	WILSONART	CRISP LINEN
PL-3	PLASTIC LAMINTE (BEDROOM DESKS)	WILSONART	5063 PIETRA VIVA
WC-1	WALLCOVERING	THIBAUT	Pattern: 713632 Pattern Name: Katsura Colorway: Cream and Lavender
WC-2	WALLCOVERING	SCHUMACHER	5007150, COLOR: MINERAL
WC-3	WALLCOVERING	SERENA & LILY	WPPR113, COLOR: COASTAL BLUE
WC-4	WALLCOVERING	SCHUMACHER	AVELINE, COLOR: LILAC 5013191
WC-5	WALLCOVERING	SCHUMACHER	PARADISE BEROS; COLOR: BLUSH SHIMMER 1901
IPT-1A	INTERIOR WALL PAINT (GENERAL)	BENJAMIN MOORE	SOFT CHAMOIS SHEEN: EGGSHELL
IPT-1B	INTERIOR TRIM PAINT (GENERAL)	SOFT CHAMOIS	SOFT CHAMOIS SHEEN: SEMI-GLOSS
IPT-3	INTERIOR PAINT (BLACK)	BENJAMIN MOORE	HC-190 BLACK SHEEN: VARIES
IPT-4	INTERIOR CEILING PAINT (GENERAL)	Sherwin Williams	SW 7005 Pure White SHEEN: FLAT
IPT-4B	INTERIOR CEILING TRIM PAINT (ACCENT)	Sherwin Williams	SW 7005 Pure White SHEEN: SEMI-GLOSS
IPT-7A	INTERIOR WALL PAINT (ACCENT)	BENJAMIN MOORE	SHEER ROMANCE 837 SHEEN: EGGSHELL
IPT-7B	INTERIOR TRIM PAINT (ACCENT)	BENJAMIN MOORE	SHEER ROMANCE 837 SHEEN: SEMI-GLOSS
IPT-8	INTERIOR TRIM PAINT (ACCENT)	BENJAMIN MOORE	Olumpic Mountains 971 SHEEN: SEMI-GLOSS
IPT-9A	INTERIOR WALL PAINT (ACCENT)	Sherwin Williams	SW 9139 DEBONAIR SHEEN: EGGSHELL
IPT-9B	INTERIOR TRIM PAINT (ACCENT)	Sherwin Williams	SW 9139 DEBONAIR SHEEN: SEMI-GLOSS

IPT-10A	INTERIOR WALL PAINT (ACCENT)	Sherwin Williams	SW 6023 INSIGHTFUL ROSE SHEEN: EGGSHELL
IPT-10B	INTERIOR TRIM PAINT (ACCENT)	Sherwin Williams	SW 6023 INSIGHTFUL ROSE SHEEN: SEMI-GLOSS
IPT-11	INTERIOR CEILING PAINT (ACCENT)	Sherwin Williams	SW 6516 LEISURE BLUE SHEEN: FLAT
IPT-12A	INTERIOR WALL PAINT (ACCENT)	Sherwin Williams	SW 6024 DRESSY ROSE SHEEN: EGGSHELL
IPT-12B	INTERIOR TRIM PAINT (ACCENT)	Sherwin Williams	SW 6024 DRESSY ROSE SHEEN: SEMI-GLOSS
IPT-13	INTERIOR TRIM PAINT (ACCENT)	Sherwin Williams	COLOR: SW 9071 DYERS WOAD SHEEN: SEMI-GLOSS
IPT-14B	INTERIOR TRIM PAINT (ACCENT)	Sherwin Williams	SW 7551 GREEK VILLA SHEEN: SEMI-GLOSS
IPX-1A	INTERIOR EPOXY WALL PAINT (GENERAL)	BENJAMIN MOORE	SOFT CHAMOIS SHEEN: EGGSHELL
IPX-1B	INTERIOR EPOXY CEILING PAINT (GENERAL WET AREAS)	BENJAMIN MOORE	SOFT CHAMOIS SHEEN: SEMI-GLOSS
IPX-4	INTERIOR EPOXY PAINT AT CEILING (GENERAL WET AREAS)	Sherwin Williams	SW 7005 Pure White SHEEN: FLAT
IPX-5A	INTERIOR EPOXY CEILING PAINT (ACCENT)	Sherwin Williams	SW 6516 LEISURE BLUE SHEEN: FLAT
IPX-5B	INTERIOR EPOXY TRIM PAINT (ACCENT)	Sherwin Williams	SW 6516 LEISURE BLUE SHEEN: SEMI-GLOSS
IPX-6A	INTERIOR EPOXY WALL PAINT (ACCENT)	Sherwin Williams	SW 6023 INSIGHTFUL ROSE SHEEN: EGGSHELL
IPX-6B	INTERIOR EPOXY TRIM PAINT (ACCENT)	Sherwin Williams	SW 6023 INSIGHTFUL ROSE SHEEN: SEMI-GLOSS
IPX-14A	INTERIOR EPOXY WALL PAINT (ACCENT)	Sherwin Williams	SW 7551 GREEK VILLA SHEEN: EGGSHELL
IPX-14B	INTERIOR EPOXY TRIM PAINT (ACCENT)	Sherwin Williams	SW 7551 GREEK VILLA SHEEN: SEMI-GLOSS

Project Name:
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NO:LL-200
STATE OF ARKANSAS

CONSTRUCTION DOCUMENTS

No.	Issue	Date

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Date
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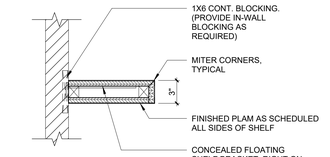
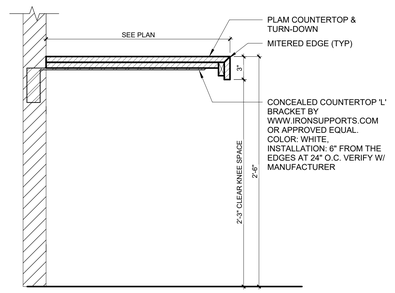
Title

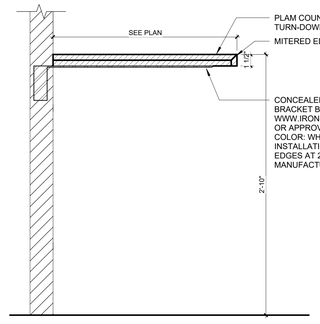
FINISH SCHEDULE
Sheet No.
A7.30



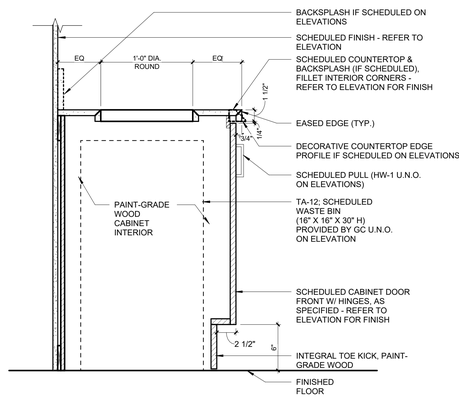
1 MILLWORK SECTION - FLOATING SHELF
1 1/2" = 1'-0"



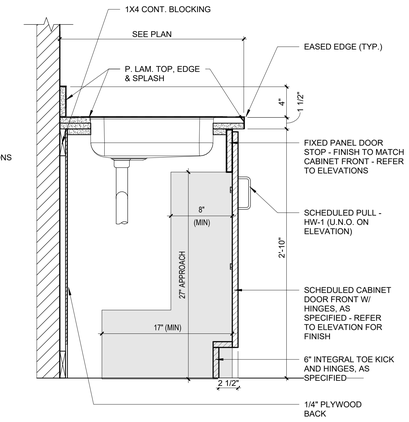
2 MILLWORK SECTION - BEDROOM DESK
1 1/2" = 1'-0"



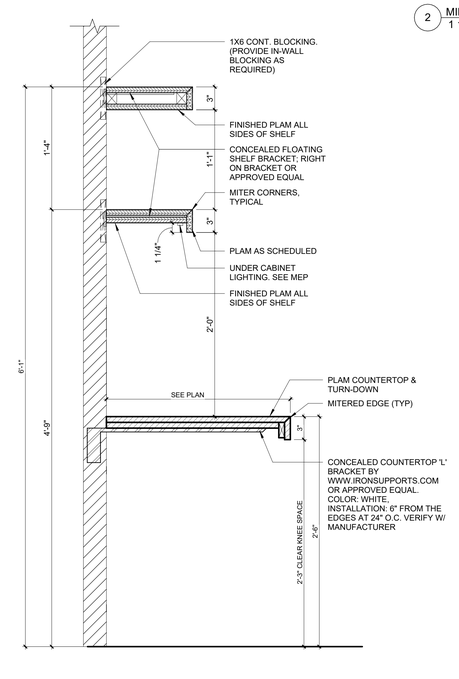
12 MILLWORK SECTION - OPEN COUNTERTOP
1 1/2" = 1'-0"



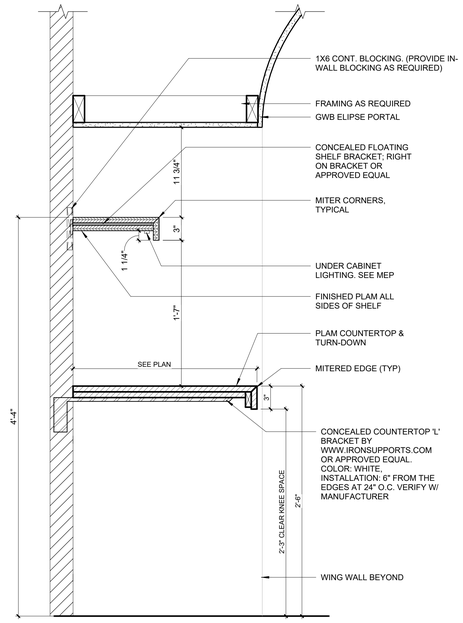
7 BATHROOM - BUILT IN TRASH
1 1/2" = 1'-0"



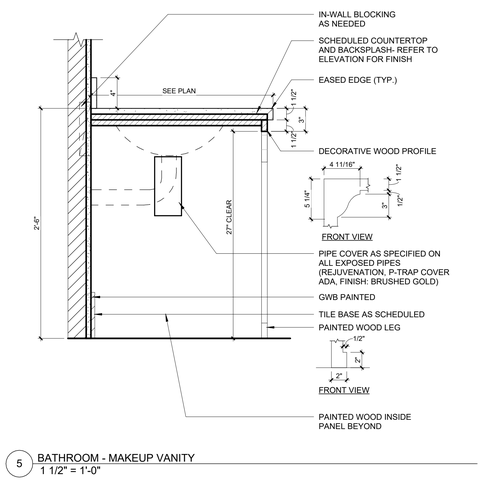
3 BASE CABINET - 1 DOOR INTEGRAL TOE KICK
1 1/2" = 1'-0"



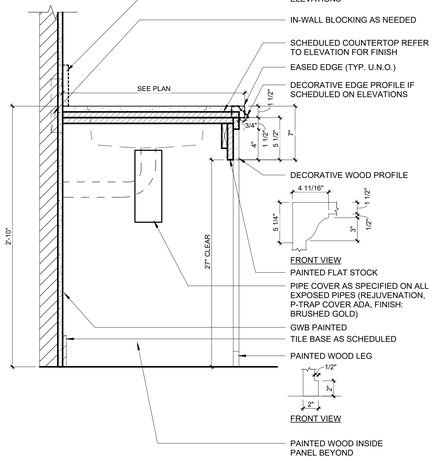
4 MILLWORK SECTION - BEDROOM DESK AND SHELVES
1 1/2" = 1'-0"



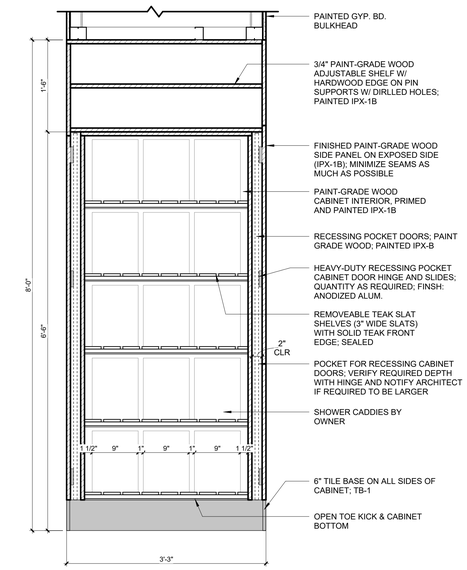
13 MILLWORK SECTION - STUDY 301 DESK AND SHELF
1 1/2" = 1'-0"



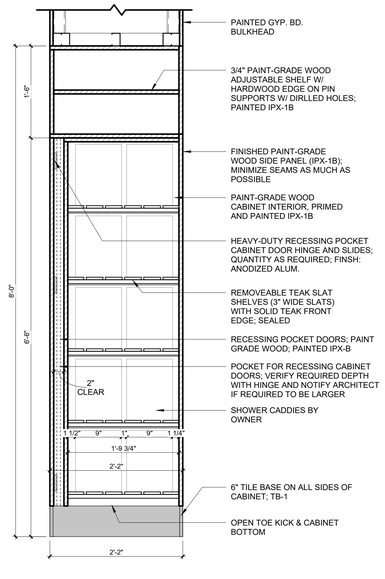
5 BATHROOM - MAKEUP VANITY
1 1/2" = 1'-0"



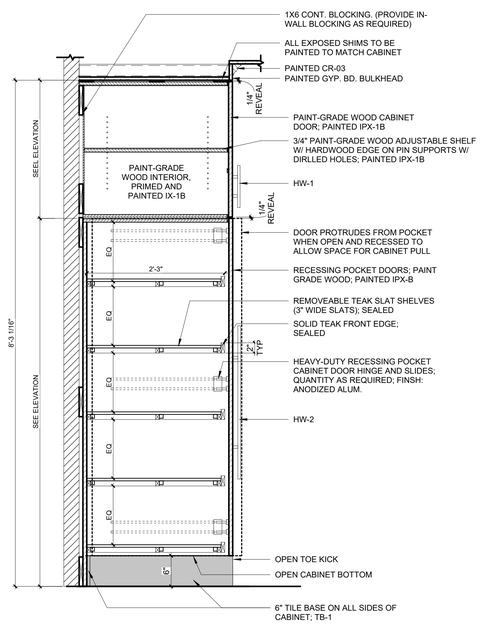
6 BATHROOM - SINK VANITY
1 1/2" = 1'-0"



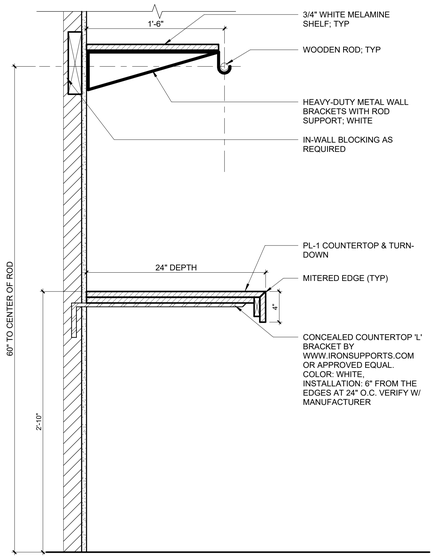
8 BATHROOM - 2 DOOR SHOWER CADDY STORAGE - FRONT SECTION
1" = 1'-0"



9 BATHROOM - 1 DOOR SHOWER CADDY STORAGE - FRONT SECTION
1" = 1'-0"



10 BATHROOM - 1 DOOR SHOWER CADDY STORAGE - SECTION
1" = 1'-0"



11 OPEN COUNTERTOP W/ SHELF & ROD
1 1/2" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title

MILLWORK DETAILS
Sheet No.
A8.01

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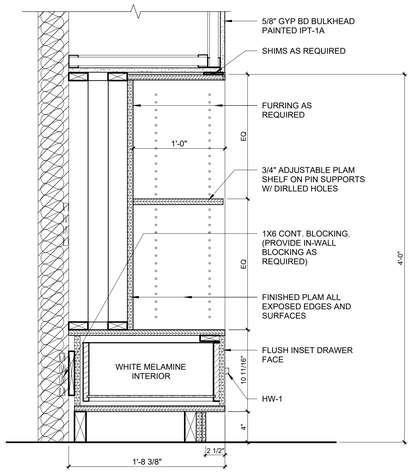
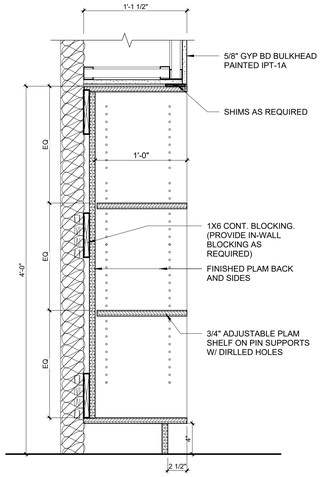
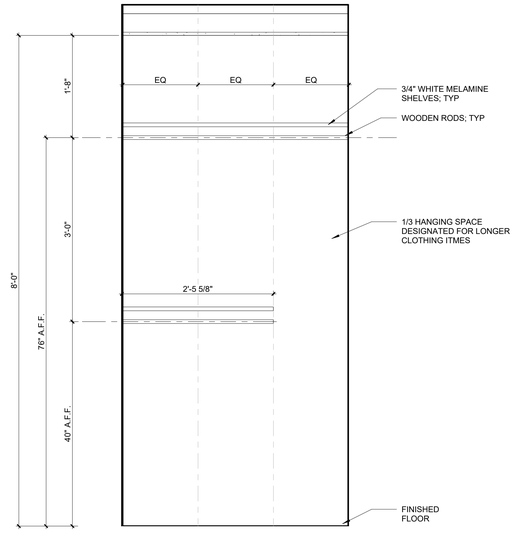


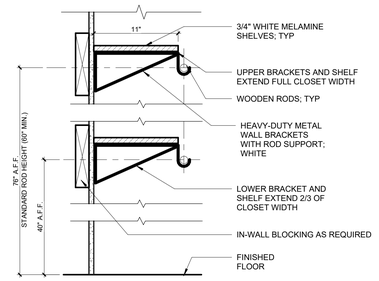
10 MILLWORK SECTION - BEDROOM BOOKSHELF W/ DRAWER
1 1/2" = 1'-0"



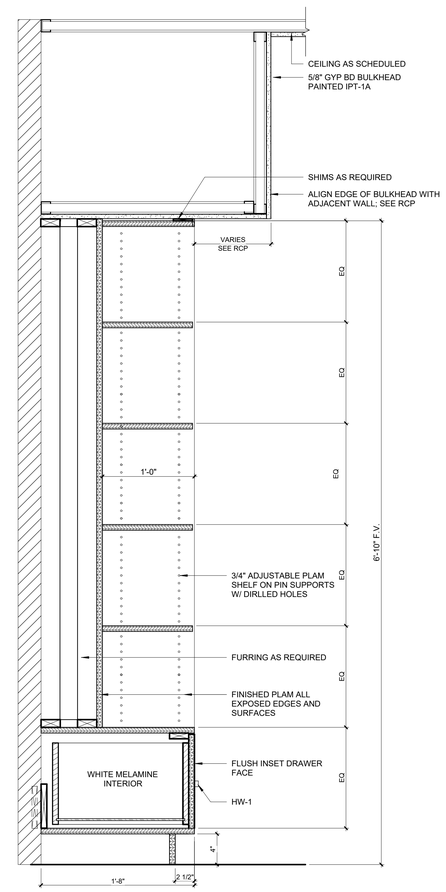
1 MILLWORK SECTION - BEDROOM BOOKSHELF
1 1/2" = 1'-0"



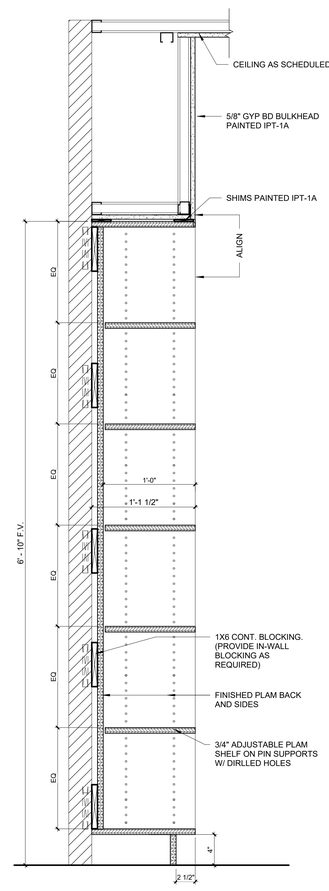
3 CLOSET DETAIL - 2 RODS
1" = 1'-0"



2 CLOSET ROD DETAIL
1 1/2" = 1'-0"

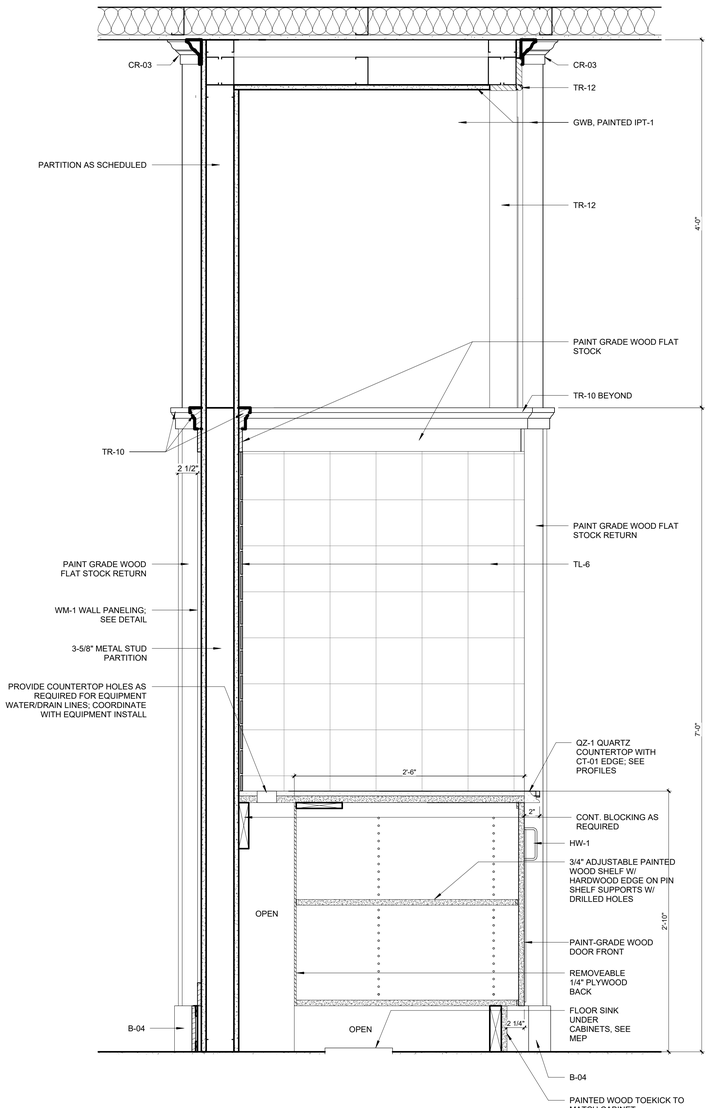


9 MILLWORK SECTION - BEDROOM TALL BOOKSHELF W/ DRAWER
1 1/2" = 1'-0"



8 MILLWORK SECTION - BEDROOM TALL BOOKSHELF
1 1/2" = 1'-0"

5 SECTION DETAIL - DISHES @ SERVERY
1 1/2" = 1'-0"



4 SECTION DETAIL - BEVERAGE STATION @ SERVERY
1 1/2" = 1'-0"

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MILLWORK DETAILS
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A8.02

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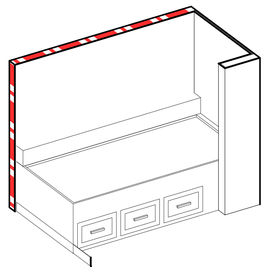
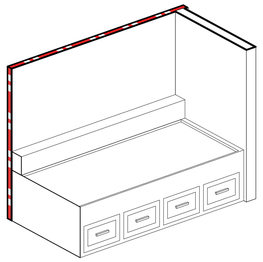
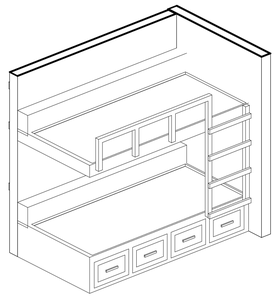


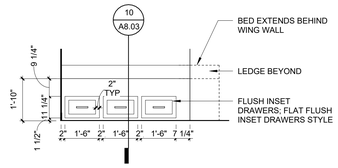
1 3 DRAWER BED AXON



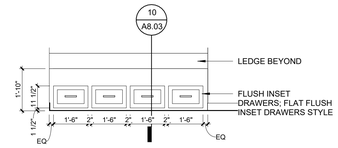
2 4 DRAWER BED AXON



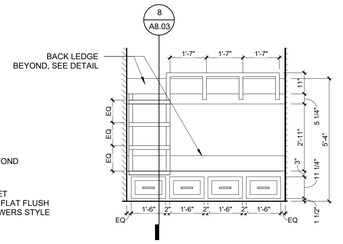
3 BUNKBED AXON



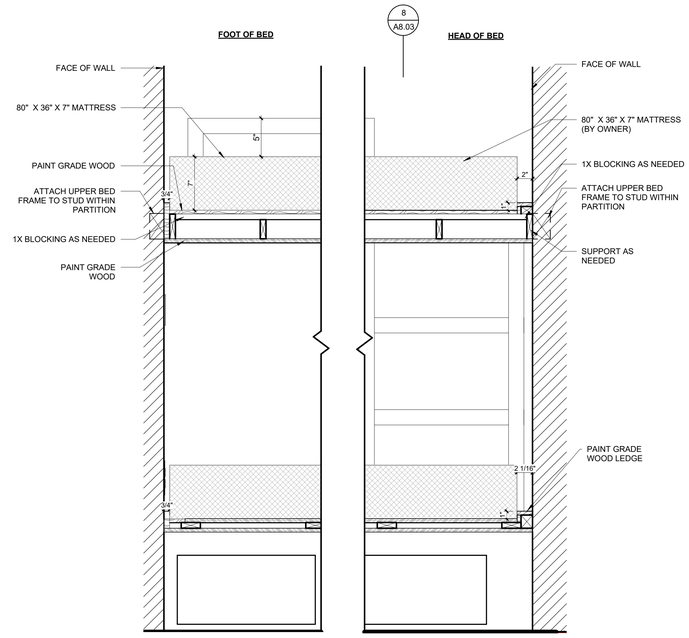
4 3 DRAWER - BUILT-IN BED
3/8" = 1'-0"



5 4 DRAWER - BUILT-IN BED
3/8" = 1'-0"

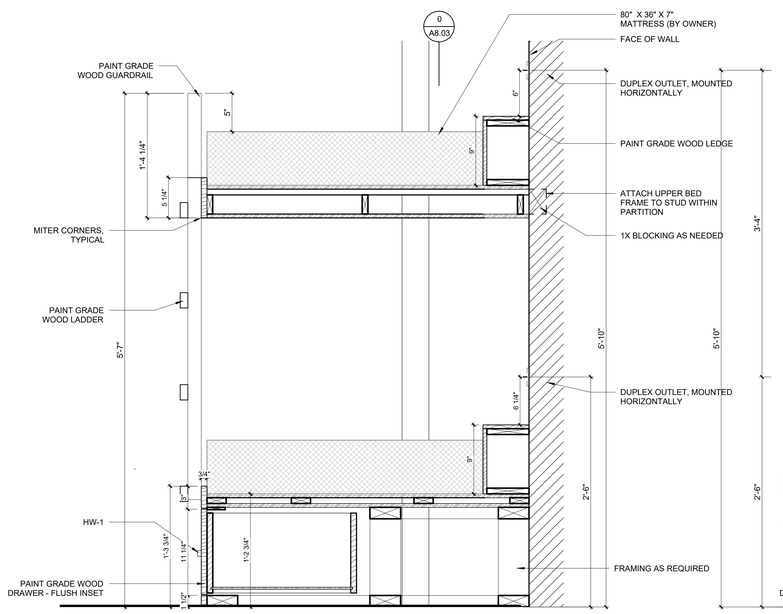


6 BUNK BED - FRONT ELEVATION
3/8" = 1'-0"



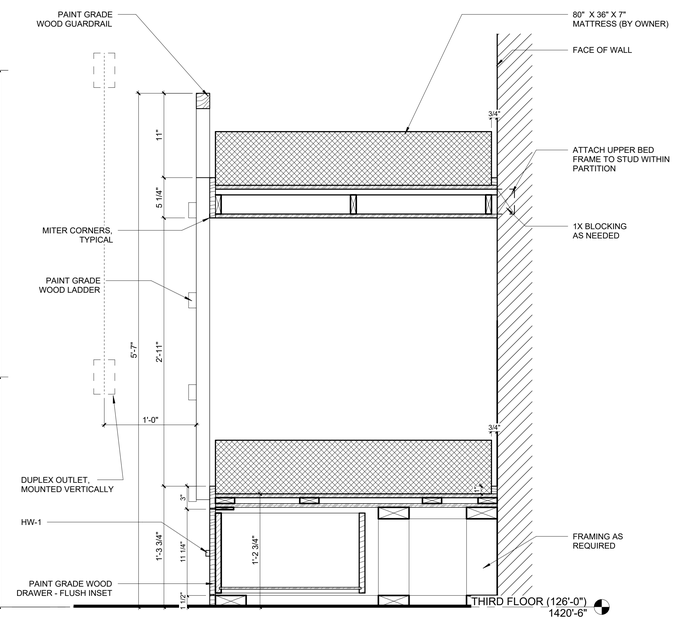
GENERAL NOTE: ALL VISIBLE SURFACES TO BE PAINT GRADE WOOD, PAINTED IPT-1B

7 SECTION DETAIL - BUILT IN BUNK BED - LONG SIDE
1 1/2" = 1'-0"



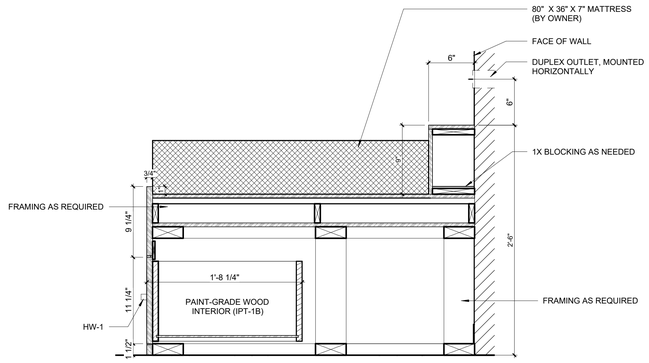
GENERAL NOTE: ALL VISIBLE SURFACES TO BE PAINT GRADE WOOD, PAINTED IPT-1B

8 SECTION DETAIL - BUILT IN BUNK BED - SHORT SIDE
1 1/2" = 1'-0"



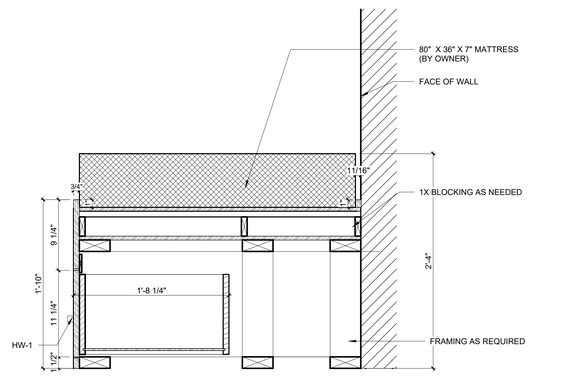
GENERAL NOTE: ALL VISIBLE SURFACES TO BE PAINT GRADE WOOD, PAINTED IPT-1B

9 SECTION DETAIL - BUILT IN BUNK BED - SHORT SIDE - NO LEDGE
1 1/2" = 1'-0"



GENERAL NOTE: ALL VISIBLE SURFACES TO BE PAINT GRADE WOOD, PAINTED IPT-1B

10 SECTION DETAIL - BUILT IN SINGLE BED
1 1/2" = 1'-0"



GENERAL NOTE: ALL VISIBLE SURFACES TO BE PAINT GRADE WOOD, PAINTED IPT-1B

11 SECTION DETAIL - BUILT IN SINGLE BED - NO LEDGE
1 1/2" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title MILLWORK DETAILS
Sheet No. **A8.03**

Project Name
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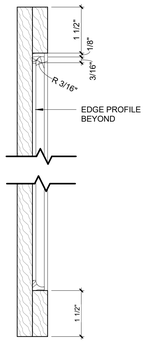
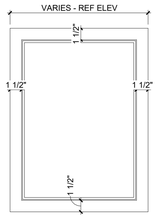
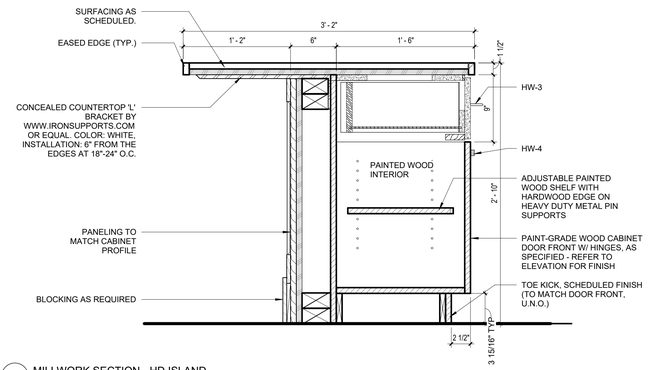


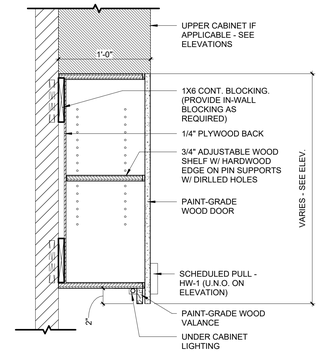
1 TYPICAL CABINET PROFILE
6" = 1'-0"



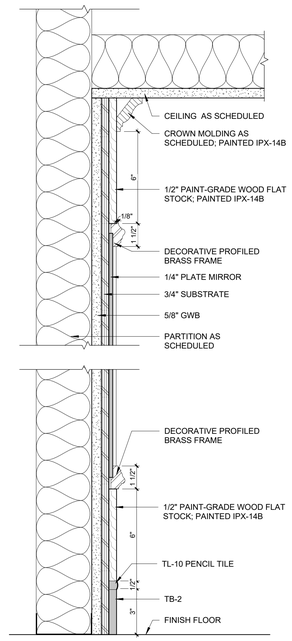
2 TYPICAL CABINET FACE
1 1/2" = 1'-0"



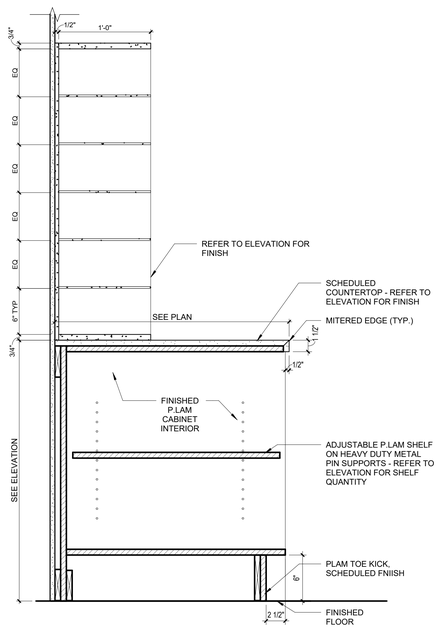
3 MILLWORK SECTION - HD ISLAND
1 1/2" = 1'-0"



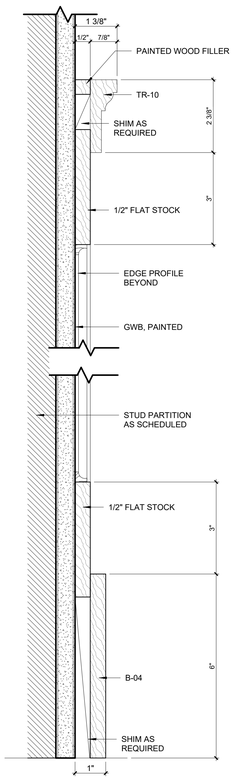
4 UPPER CABINET - TYPICAL WITH LIGHTING
1 1/2" = 1'-0"



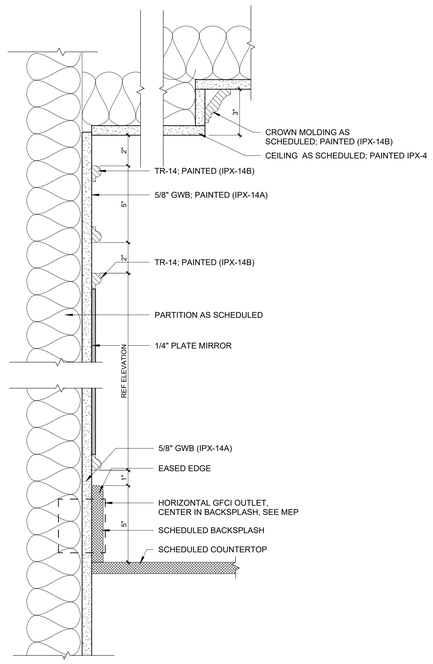
5 BUILT-IN MIRROR @ RESTROOMS
3" = 1'-0"



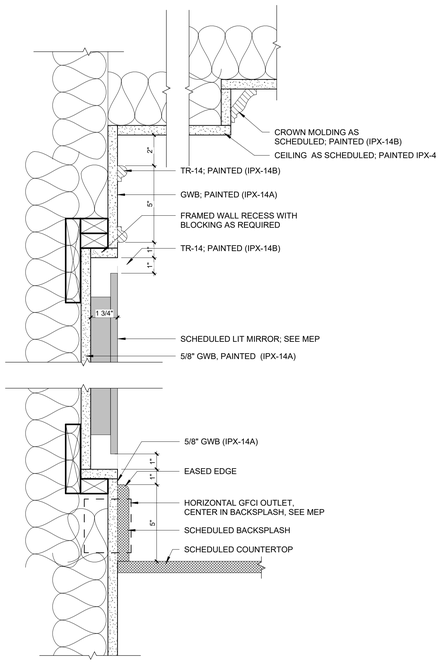
7 MAIL SLOTS
1 1/2" = 1'-0"



8 WM-1 PANELING
6" = 1'-0"



9 BUILT-IN MIRROR @ RESTROOM VANITY
3" = 1'-0"



6 BUILT-IN LIT MIRROR @ RESTROOM VANITY
3" = 1'-0"

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MILLWORK DETAILS

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A8.04

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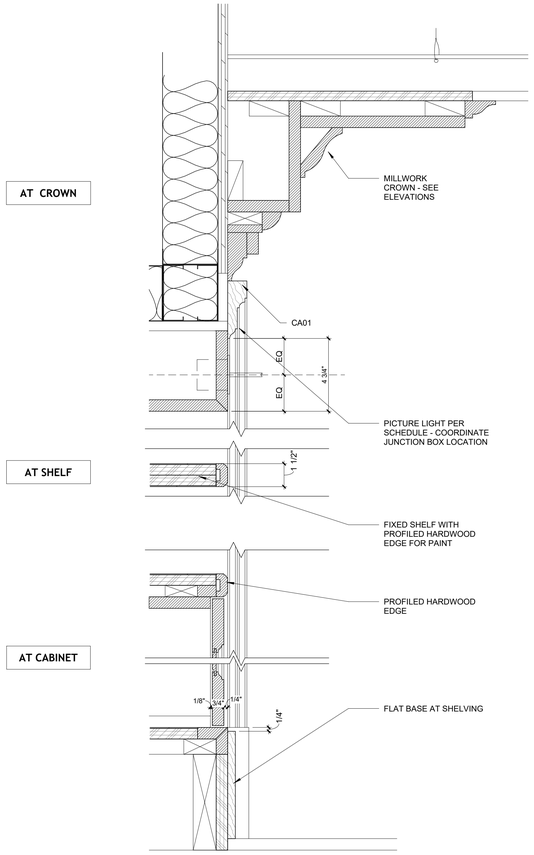
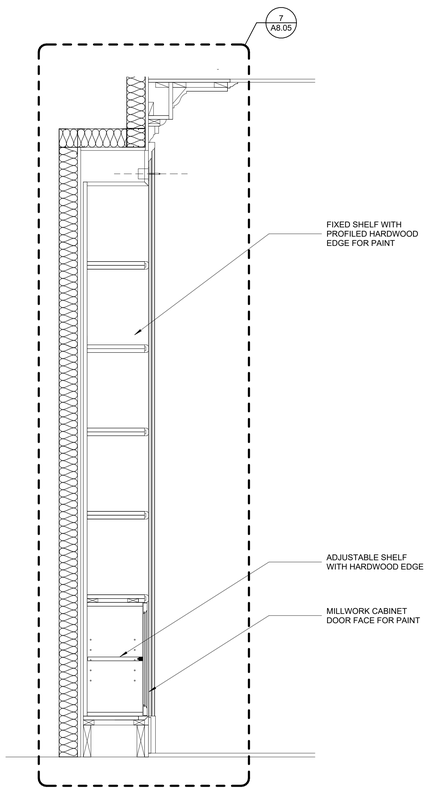
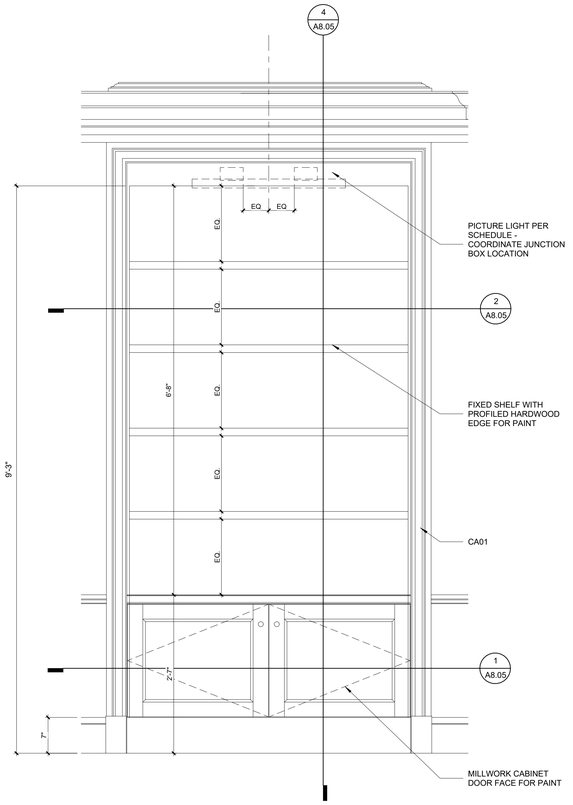


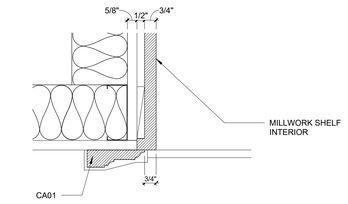
7 SECTION DETAIL - ROOM 102 LIBRARY
3" = 1'-0"

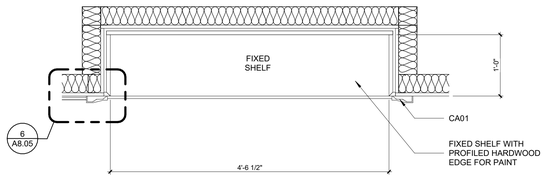


4 SECTION - ROOM 102 LIBRARY
1" = 1'-0"



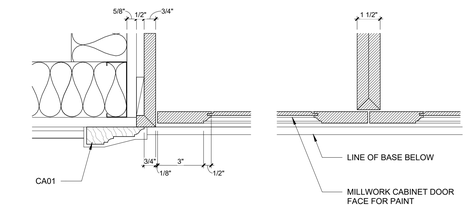
3 ENLARGED ELEVATION - ROOM 102 LIBRARY
1" = 1'-0"

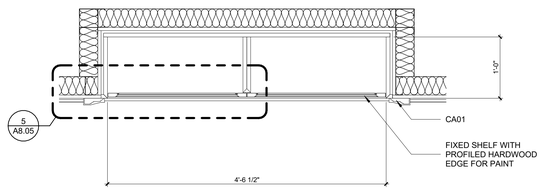




6 PLAN DETAIL AT SHELF - ROOM 102 LIBRARY
3" = 1'-0"

2 ENLARGED PLAN AT SHELF - ROOM 102 LIBRARY
1" = 1'-0"





5 PLAN DETAIL AT CABINET- ROOM 102 LIBRARY
3" = 1'-0"

1 ENLARGED PLAN AT CABINET - ROOM 102 LIBRARY
1" = 1'-0"

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Sheet No. **A8.05**

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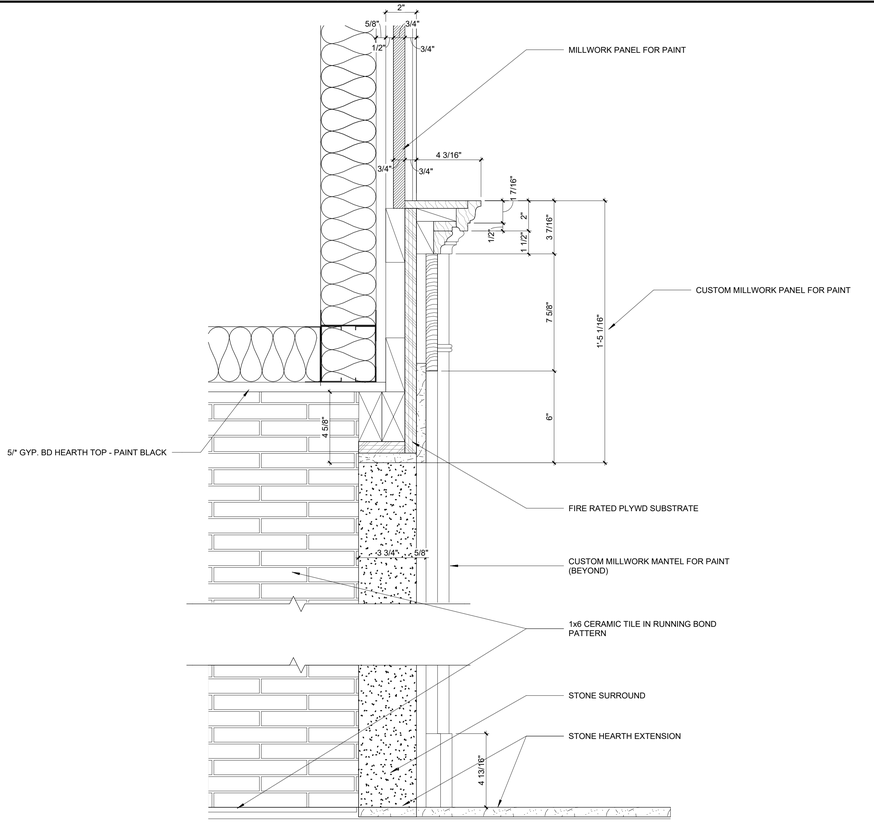
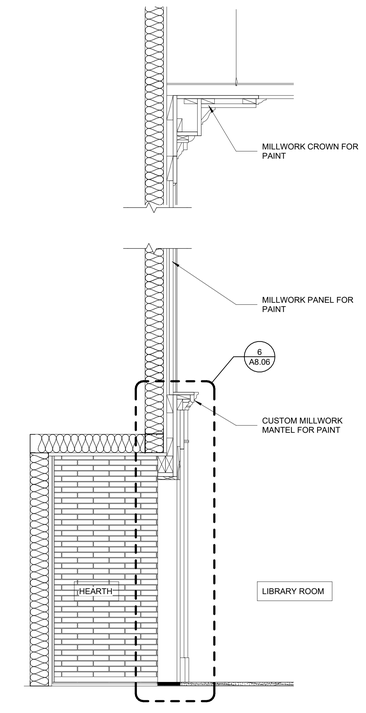
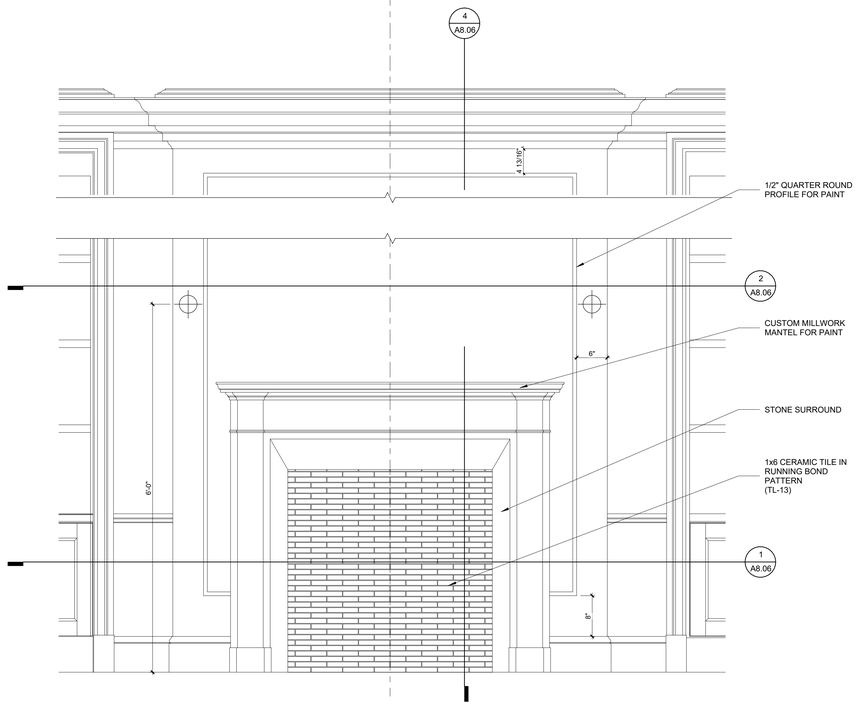


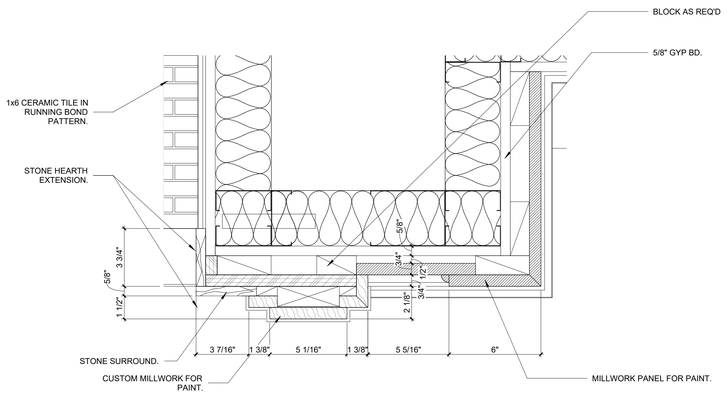
6 SECTION DETAIL - ROOM 102 - LIBRARY FIREPLACE
3" = 1'-0"



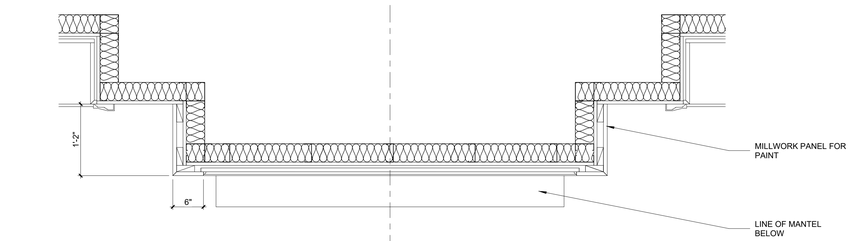
4 SECTION - ROOM 102 - LIBRARY FIREPLACE
1" = 1'-0"



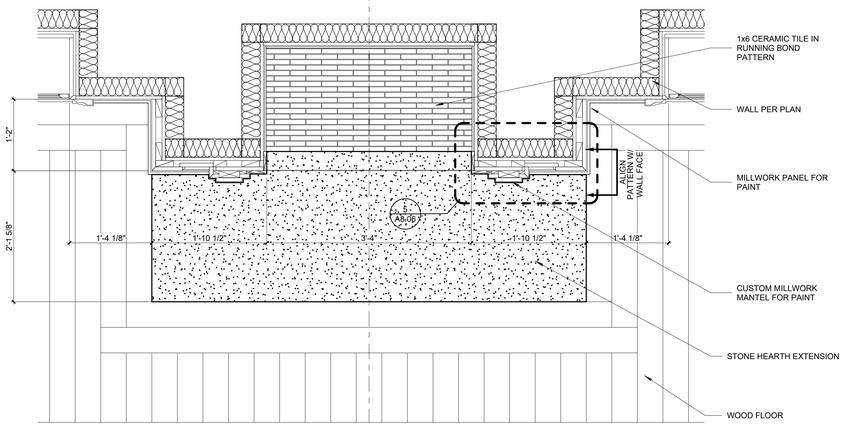
3 ENLARGED ELEVATION - ROOM 102 - LIBRARY FIREPLACE
1" = 1'-0"



5 PLAN DETAIL - ROOM 102 - LIBRARY FIREPLACE
3" = 1'-0"



2 ENLARGED PLAN AT MANTEL - ROOM 102 - LIBRARY FIREPLACE
1" = 1'-0"



1 ENLARGED PLAN AT HEARTH - ROOM 102 - LIBRARY FIREPLACE
1" = 1'-0"

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Date
12.18.2025
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Project Name
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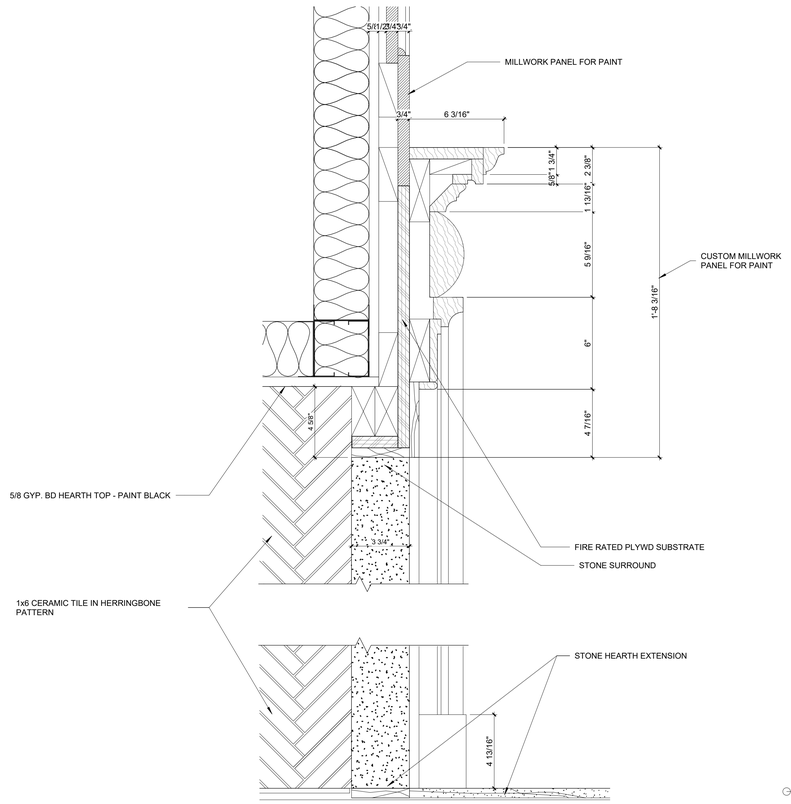
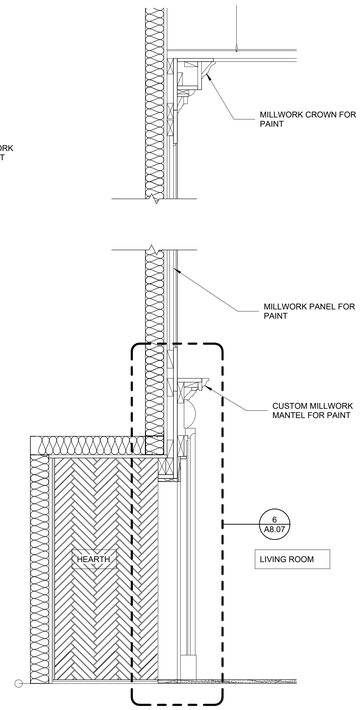
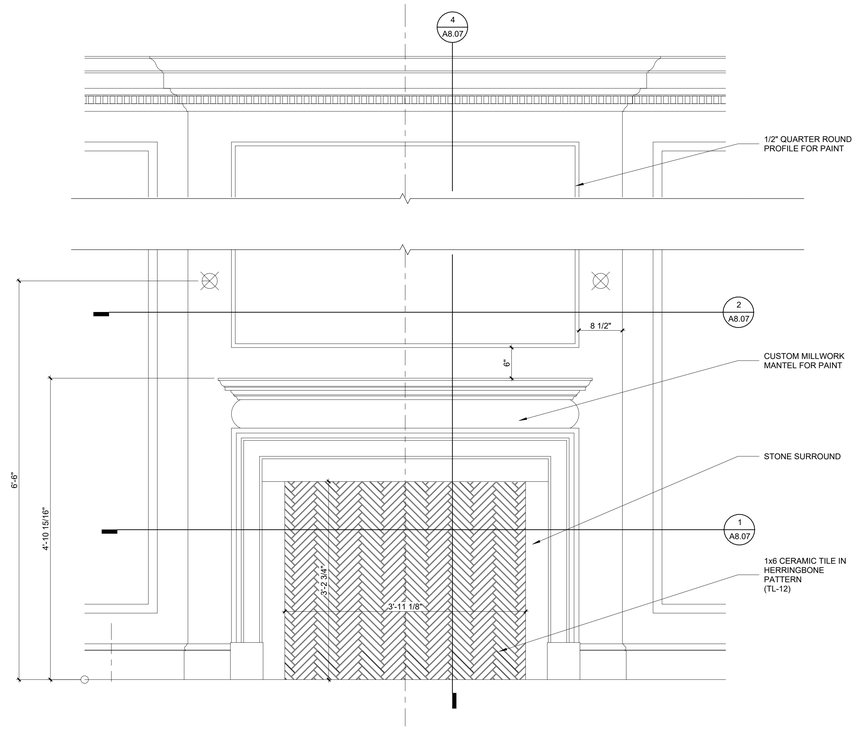


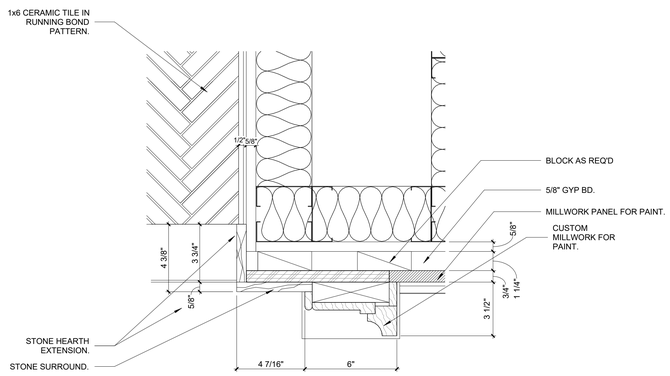
6 SECTION DETAIL - ROOM 117 - LIVING ROOM FIRE PLACE
3" = 1'-0"



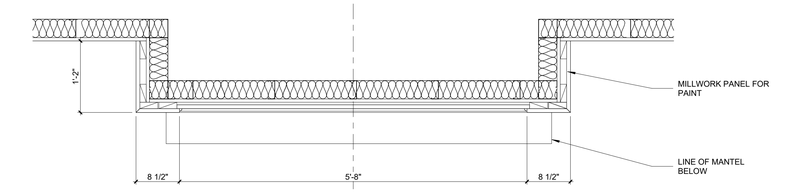
4 SECTION - ROOM 117 - LIVING ROOM FIREPLACE
1" = 1'-0"



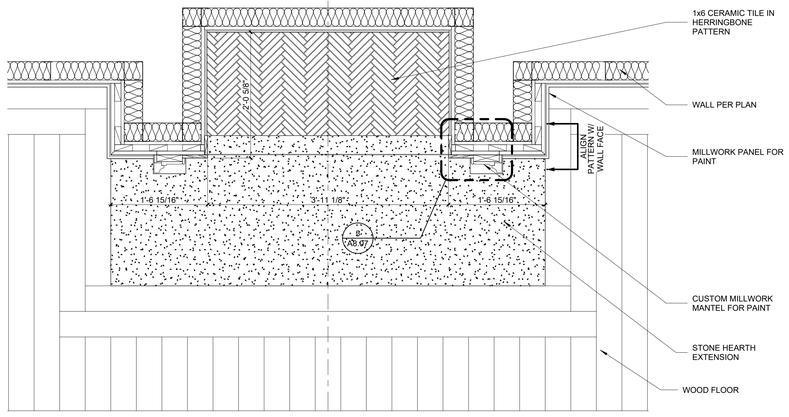
3 ENLARGED ELEVATION AT MANTEL - ROOM 117 - LIVING ROOM FIREPLACE
1" = 1'-0"



5 PLAN DETAIL - ROOM 117 - LIVING ROOM FIREPLACE
3" = 1'-0"



2 ENLARGED PLAN AT MANTEL - ROOM 117 - LIVING ROOM FIREPLACE
1" = 1'-0"



1 ENLARGED PLAN AT HEARTH - ROOM 117 - LIVING ROOM FIREPLACE
1" = 1'-0"

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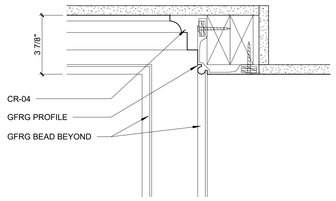
CONSTRUCTION DOCUMENTS

No.	Issue	Date

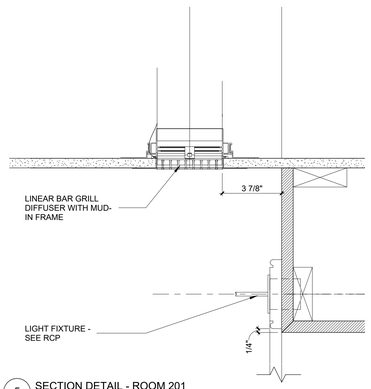
Job No. UAFAPH-21.01
Date 12.18.2025
Title

MILLWORK DETAILS
Sheet No.

A8.07



7 SECTION DETAIL - ROOM 201
3" = 1'-0"



5 SECTION DETAIL - ROOM 201
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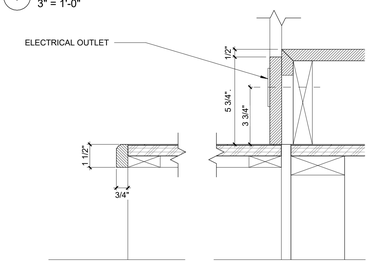

4 SECTION DETAIL -ROOM 201 - AT COUNTER
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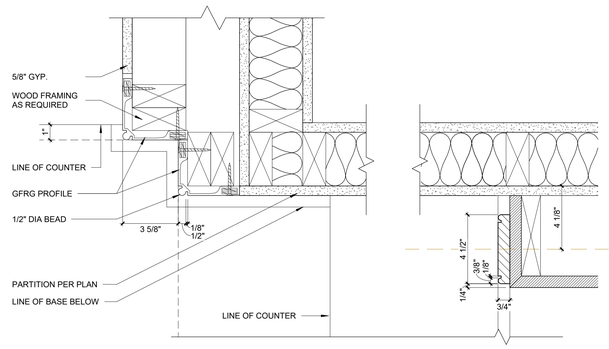

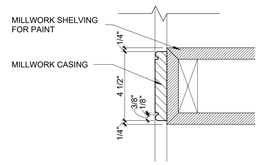

2 PLAN DETAIL - ROOM 201 - AT COUNTER
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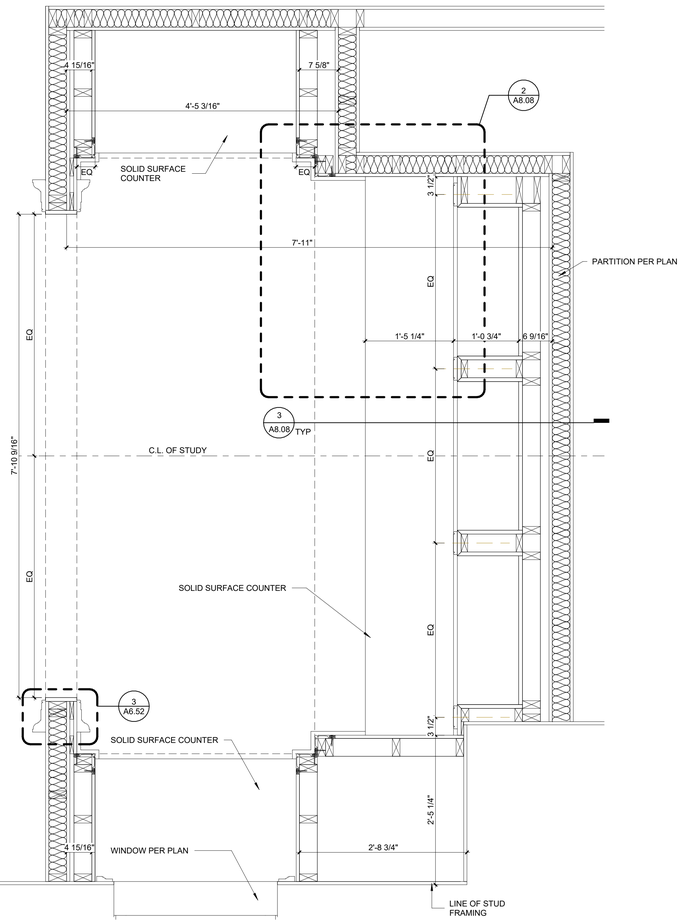

1 ENLARGED PARTIAL PLAN - ROOM 201
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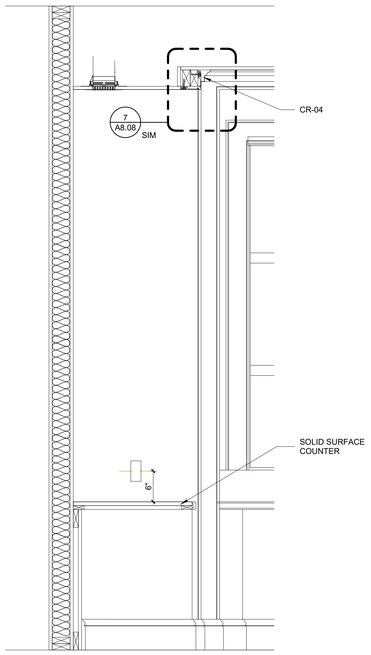
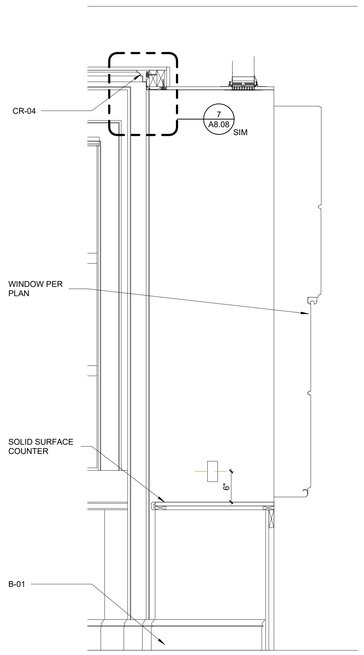


8 ENLARGED SECTION AT COUNTER - ROOM 201
1" = 1'-0"



6 ENLARGED SECTION AT WINDOW - ROOM 201
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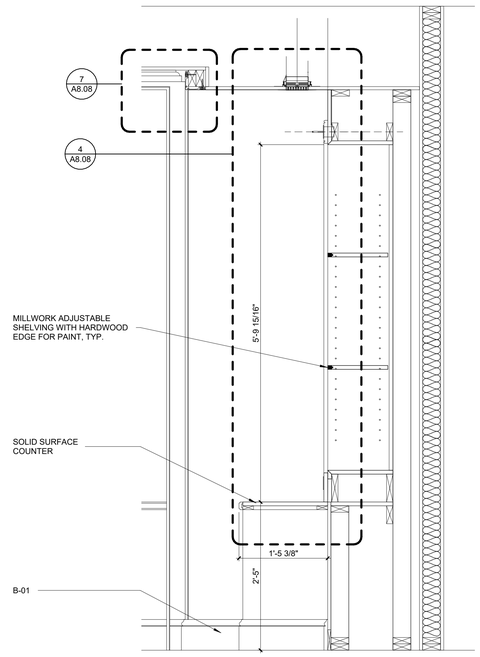

3 ENLARGED SECTION AT SHELVING - ROOM 201
1" = 1'-0"

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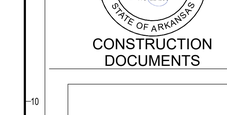

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

MILLWORK DETAILS

Sheet No.

A8.08

Project Name
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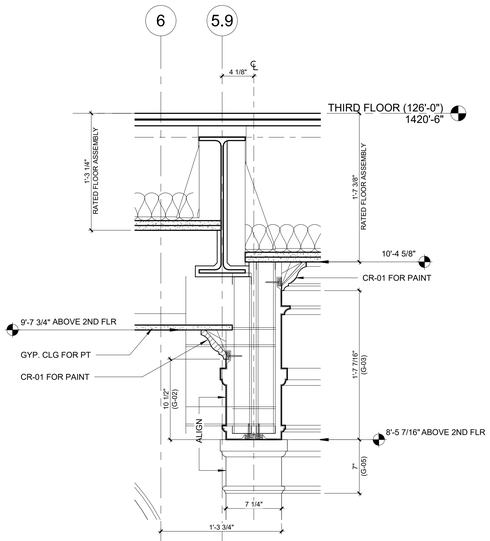

9 SECTION DETAIL
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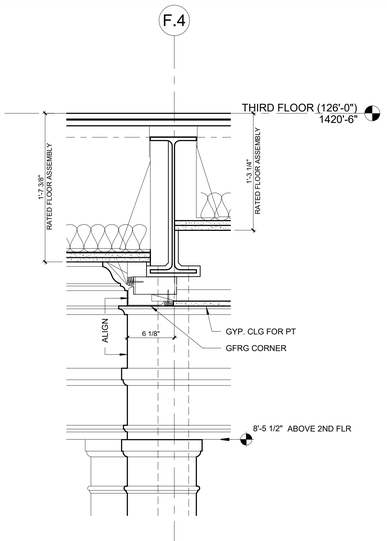

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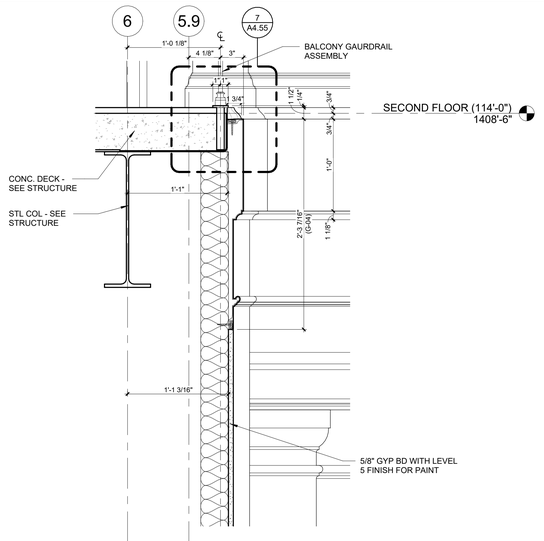

4 SECTION DETAIL
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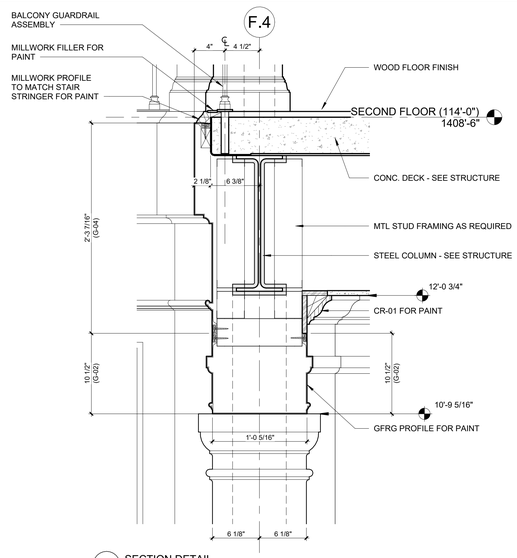

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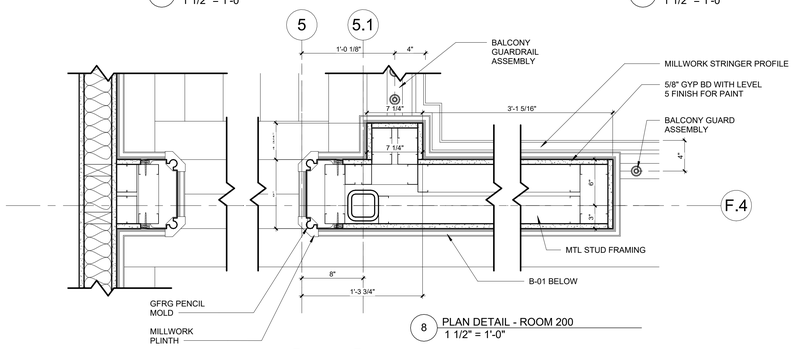
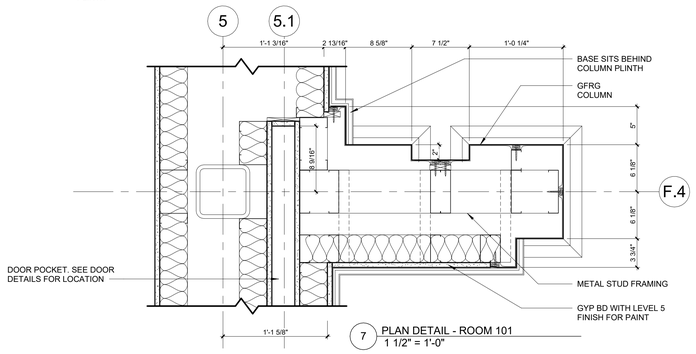
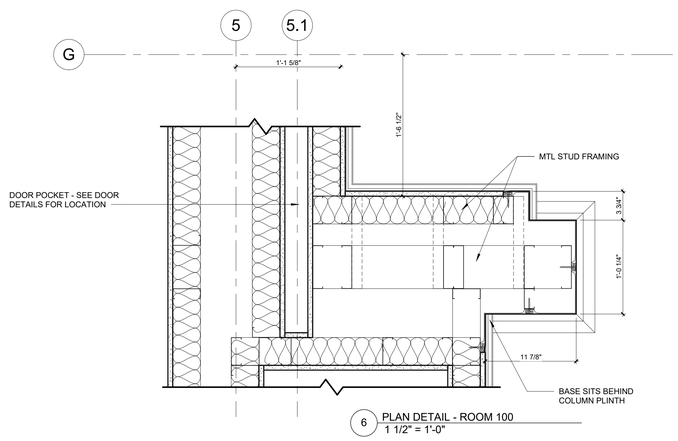
1 1/2" = 1'-0"



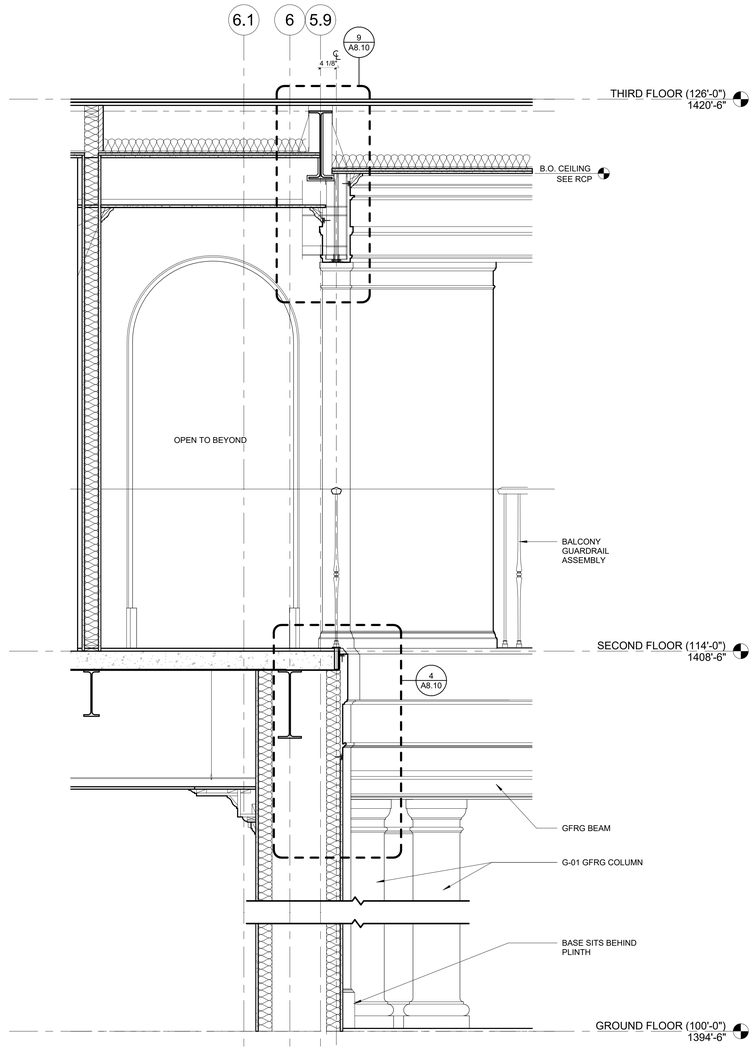
8 PLAN DETAIL - ROOM 200
1 1/2" = 1'-0"



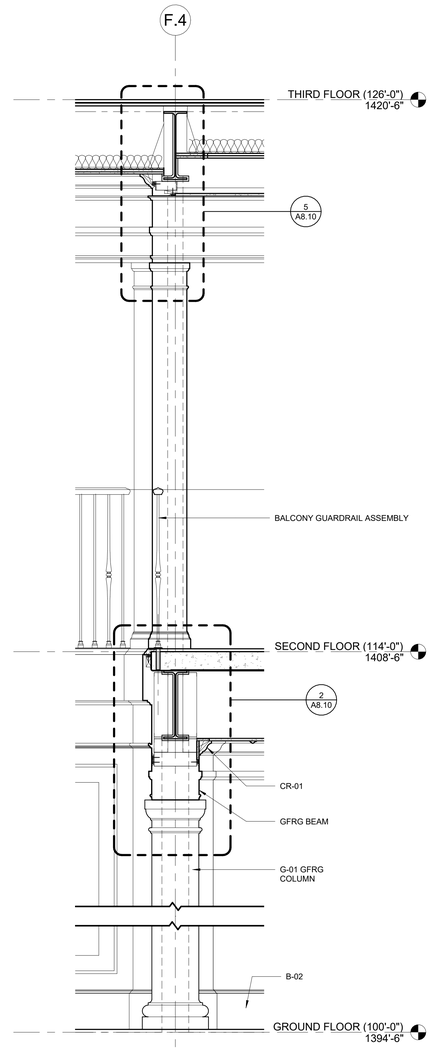
7 PLAN DETAIL - ROOM 101
1 1/2" = 1'-0"



6 PLAN DETAIL - ROOM 100
1 1/2" = 1'-0"



3 SECTION LOOKING SOUTH - ROOM 101
3/4" = 1'-0"



1 SECTION LOOKING EAST - ROOM 101
3/4" = 1'-0"

Project Name
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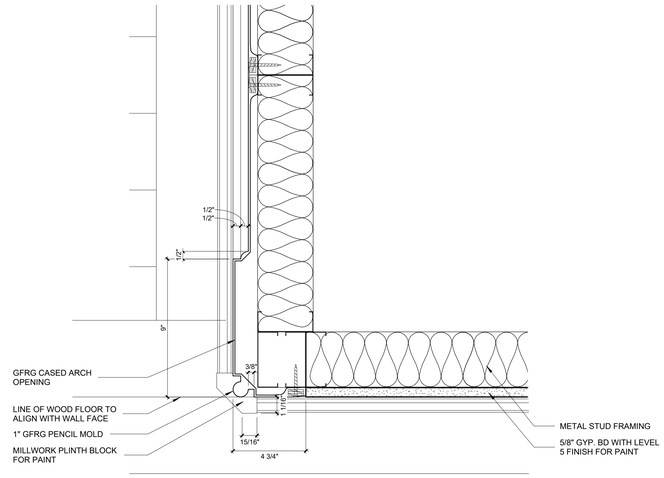
No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

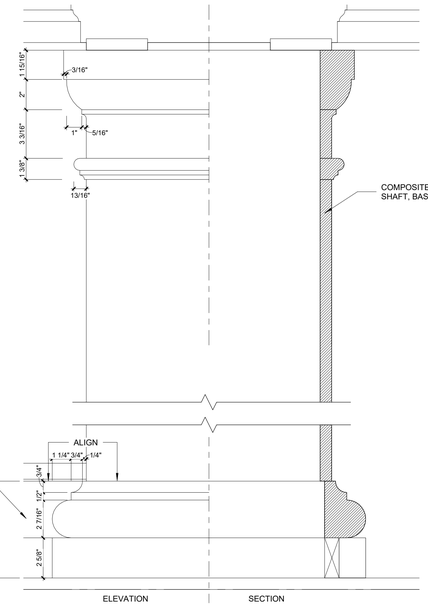
GFRG DETAILS

Sheet No.

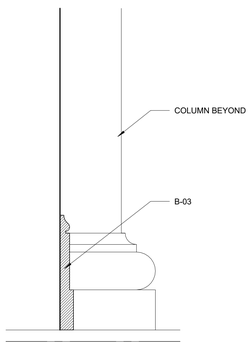
A8.10



3 PLAN DETAIL - C101.1 - 101.2
3" = 1'-0"



6 ELEVATION/SECTION DETAIL - ROOM 105 PILASTER
3" = 1'-0"



7 ELEVATION - ROOM 105 PILASTER
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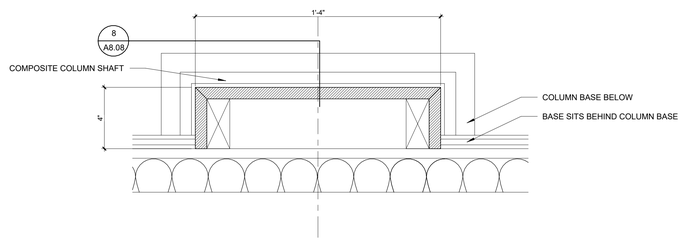

5 PLAN DETAIL - ROOM 105 PILASTER
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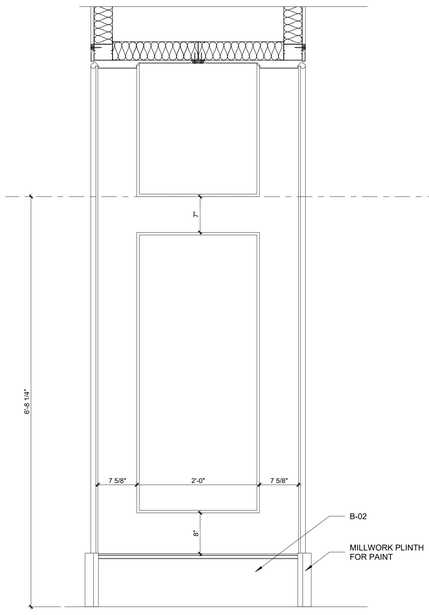

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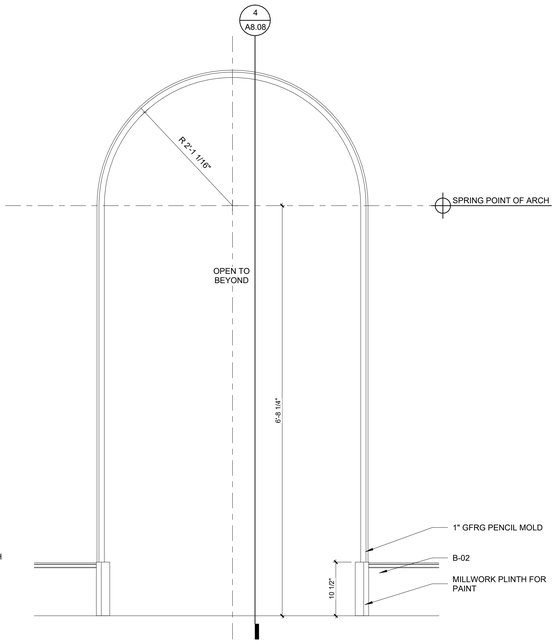

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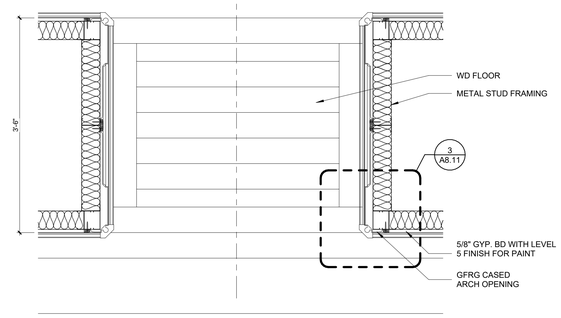

1 ENLARGED PLAN - C101.1-101.2
1" = 1'-0"

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Title GFRG DETAILS

Sheet No. **A8.11**

Project Norm
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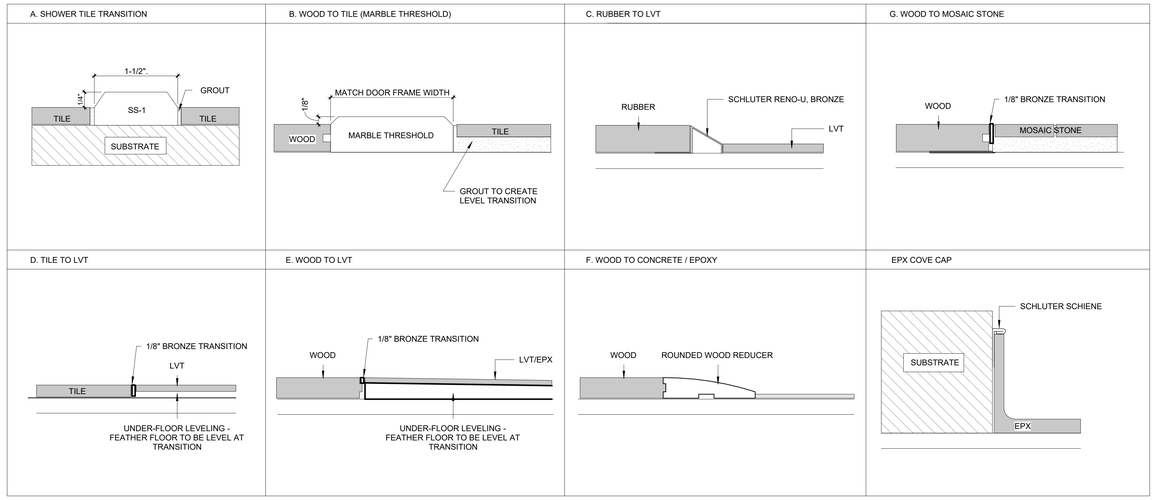
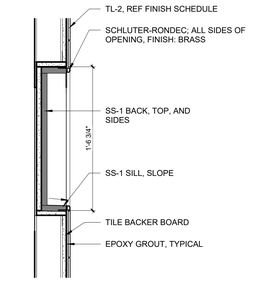
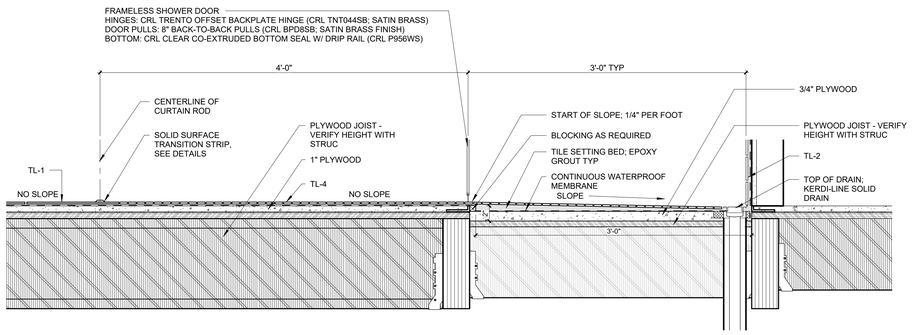
FLOORING AND WALL MATERIAL TRANSITION DETAILS



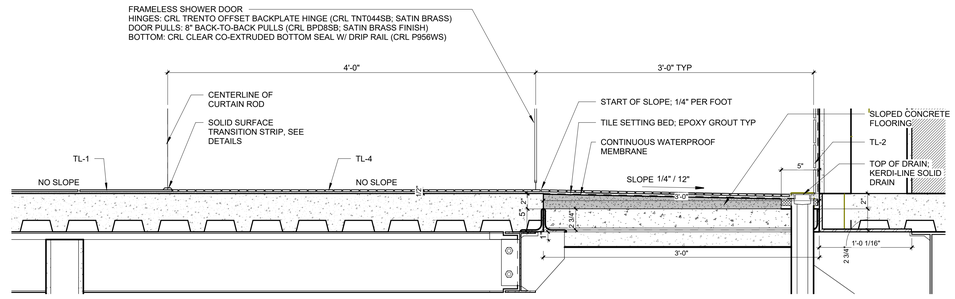
3 FLOORING AND WALL MATERIAL TRANSITION DETAILS
12" = 1'-0"



4 SECTION DETAIL - SHOWER NICHE
1 1/2" = 1'-0"



2 SECTION DETAIL - SHOWER SLOPE @ WOOD STRUCTURE
1 1/2" = 1'-0"



1 SECTION DETAIL - SHOWER SLOPE @ CONCRETE
1 1/2" = 1'-0"

Project Name
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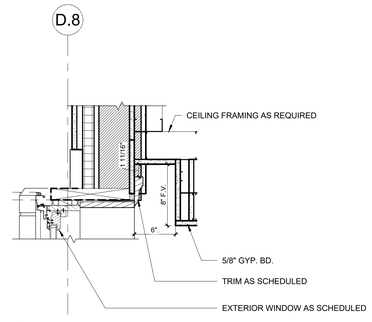
Date 12.18.2025

Title

INTERIOR DETAILS

Sheet No.

A8.12



5 GYP POCKET @ RESTROOM WINDOW
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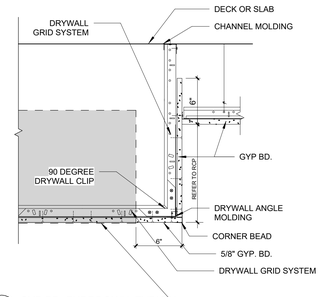

3 GYP BD. FURRDOWN, TYPICAL
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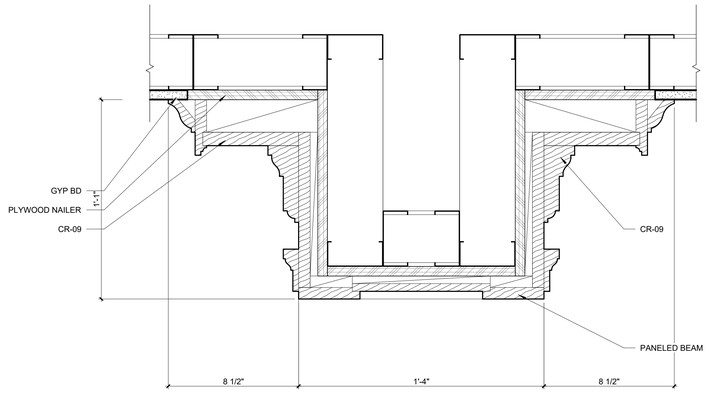

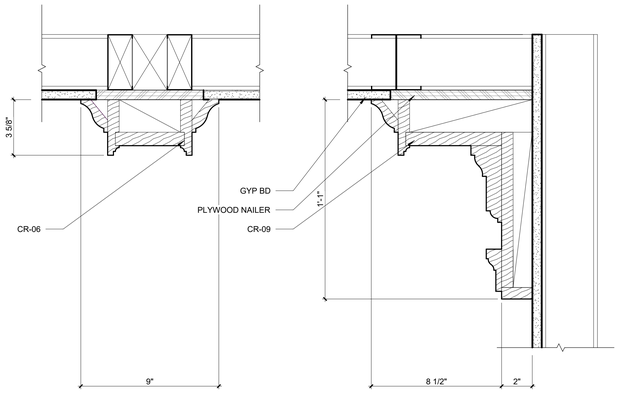

2 INTERIOR DETAILS - DINING
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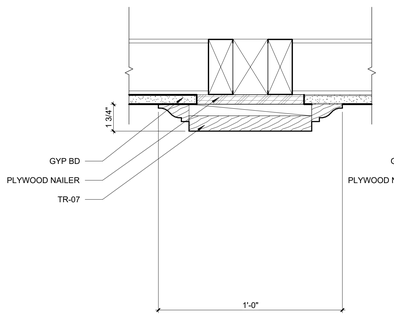

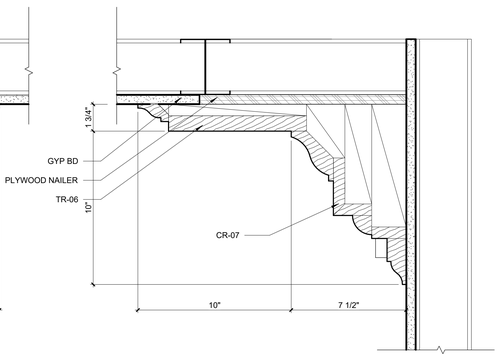

1 INTERIOR DETAILS - LIBRARY
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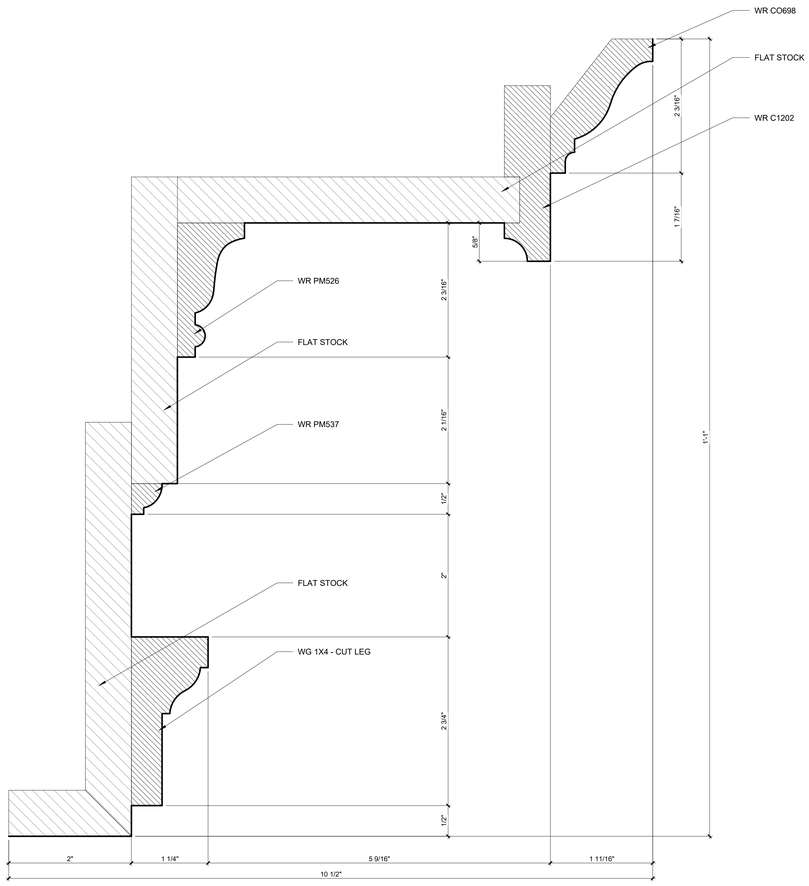
No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title CEILING DETAILS
Sheet No. **A8.13**



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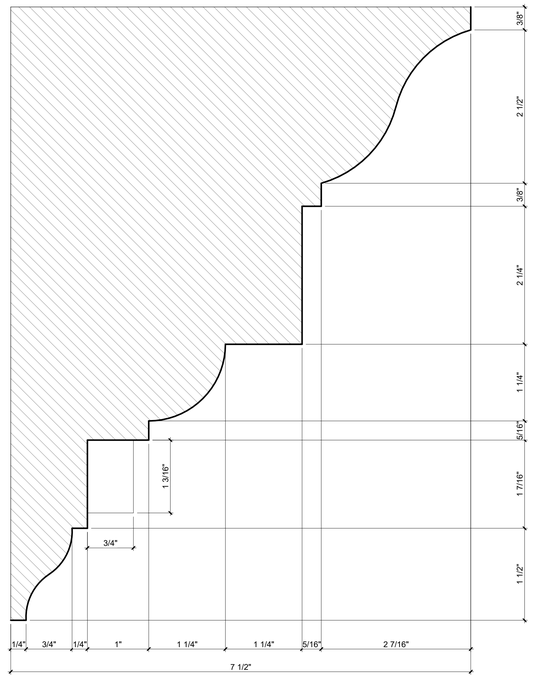

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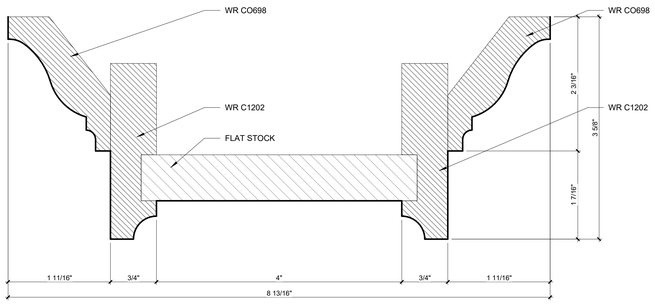

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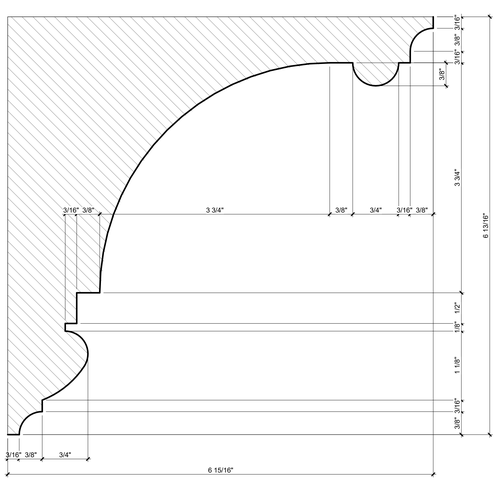

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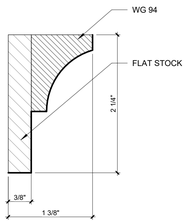

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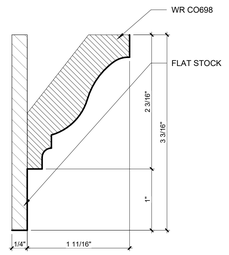

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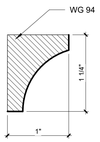

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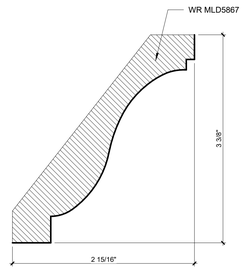

CR-01

1 CORNICE PROFILES
12" = 1'-0"

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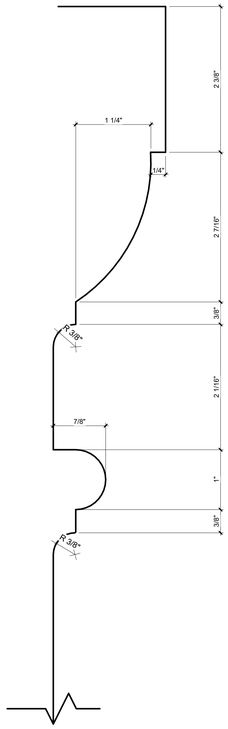
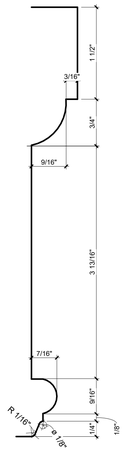
Date
12.18.2025
Title

PROFILES

Sheet No.
A9.01





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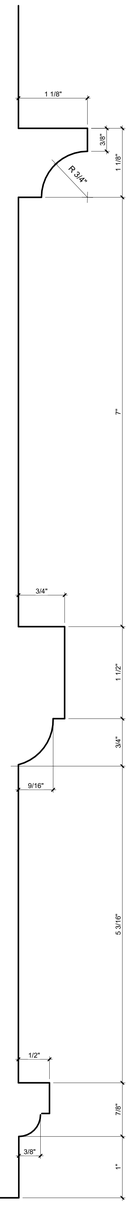

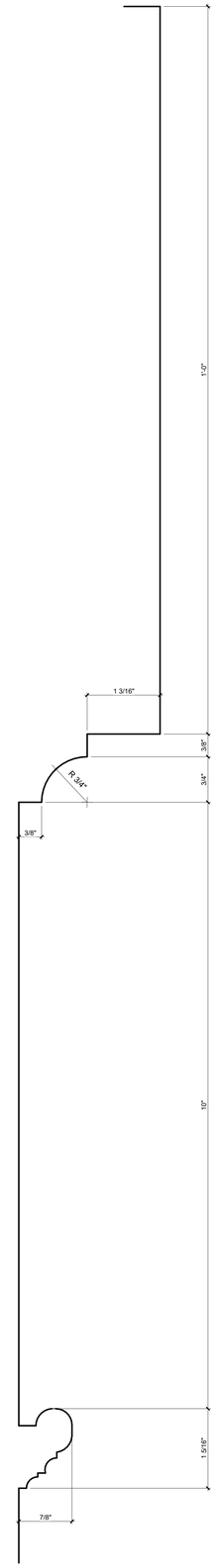

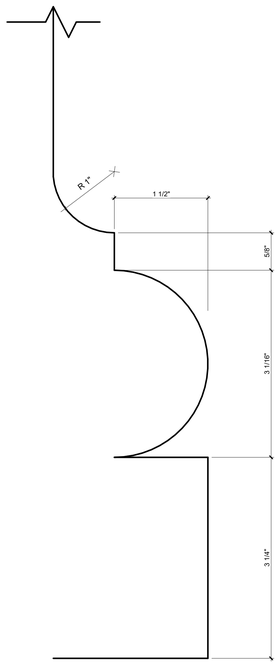

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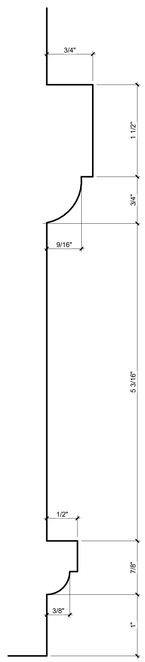


G-02

G-03

G-04

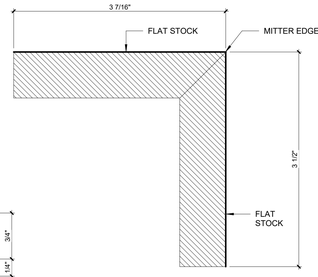
2 GFRG PROFILES
12" = 1'-0"



TR-15



TR-14



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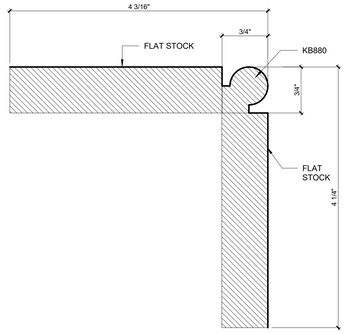

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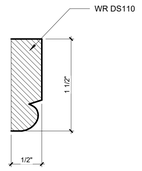

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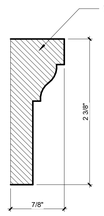

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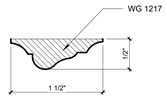

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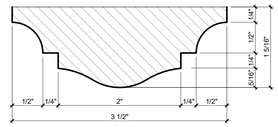

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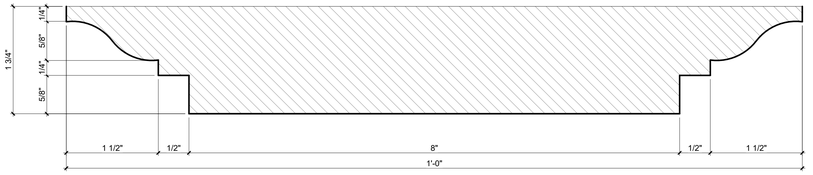

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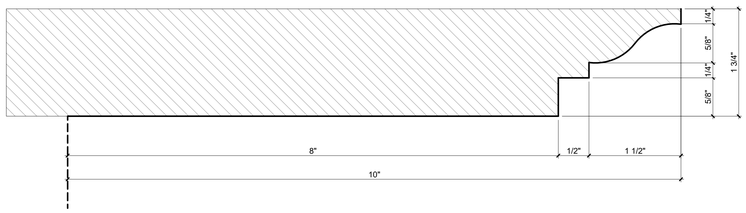

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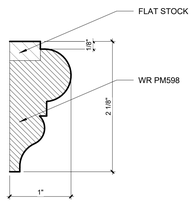

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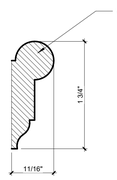

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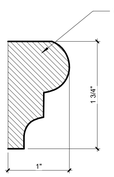

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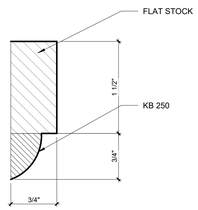

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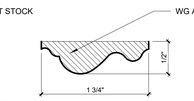

TR-01

1 TRIM PROFILES
12" = 1'-0"

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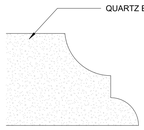
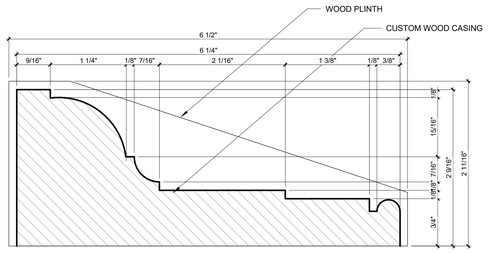
Job No. UAFAPH-21.01
Date 12.18.2025
Title PROFILES
Sheet No. **A9.02**



CT-01 (COVE DUPONT EDGE)

5 COUNTERTOP PROFILES
12" = 1'-0"



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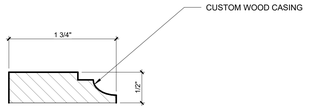
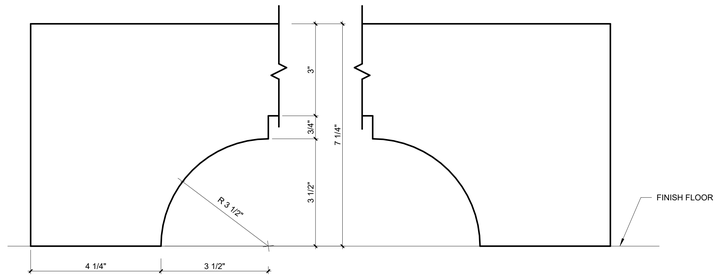


CA-02

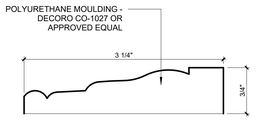
KEY:
WR - WHITE RIVER
WG - WOODGRAIN
KB - KUIKEN BROTHERS COMPANY

NOTE: PLINTH HEIGHT TO BE 1/4" ABOVE ADJACENT BASE AT ALL LOCATION U.N.O.



PR-01 (LEG PROFILE IN SERVERY)

6 CABINETRY PROFILES
6" = 1'-0"



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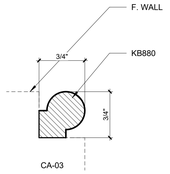

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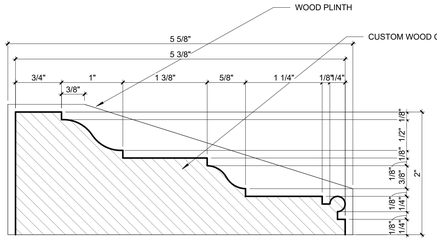

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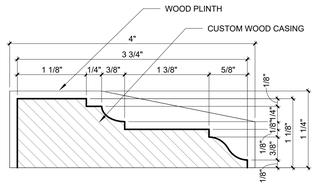
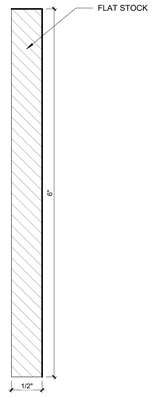


CA-01

2 CASING PROFILES
12" = 1'-0"



B-05



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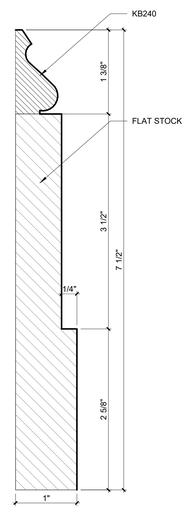

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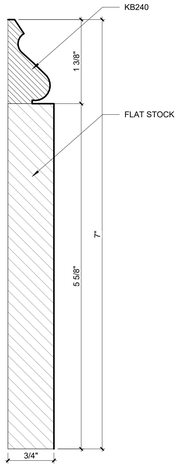
B-02



B-01

1 BASE PROFILES
12" = 1'-0"

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Project Name
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FIRE PROTECTION GENERAL NOTES

1. THE FIRE PROTECTION OF THIS BUILDING SHALL BE IN ACCORDANCE WITH STATE AND LOCAL CODES AND SHALL CONFORM TO NFPA 13 & 14 GENERAL REQUIREMENTS AND IN FULL COMPLIANCE WITH LOCAL FIRE MARSHAL. NOTES, DETAILS, AND SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS SHOW BASIC DESIGN INTENT ONLY. THE FIRE PROTECTION CONTRACTOR/ENGINEER IS RESPONSIBLE TO DESIGN, FABRICATE, AND INSTALL A COMPLETE, FULLY OPERATIONAL, CODE COMPLIANT SYSTEM IN AN ACCEPTABLE MANNER TO THE STATE HEALTH DEPARTMENT, LOCAL FIRE MARSHALL AND THE ARCHITECT/ENGINEER.
2. THE AUTOMATIC SPRINKLER SYSTEM SHALL BE DESIGNED, FABRICATED, INSTALLED, AND TESTED BY AN EXPERIENCED CONTRACTOR APPROVED BY THE ARCHITECT AND LICENSED BY THE STATE TO PERFORM SUCH WORK.
3. THE FIRE PROTECTION CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, FEES, DEPOSITS, AND CHARGES IN CONNECTION WITH THE WORK, EXCEPT AS NOTED HEREIN. CONTRACTOR SHALL SECURE ALL NECESSARY APPROVALS.
4. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEFICIENCIES OR DEVIATIONS FROM THE REQUIREMENTS IN NFPA 13 AND/OR THE APPROVED PLANS.
5. THE CONTRACTOR SHALL PRODUCE SHOP DRAWINGS OF A NFPA 13 SYSTEM SHOWING COORDINATION WITH ALL STRUCTURAL AND HVAC COMPONENTS. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND THE OWNER'S INSURANCE COMPANY FOR APPROVAL. BEFORE BEING SENT TO THE ARCHITECT, ALL SHOP DRAWINGS MUST BEAR THE INSURANCE SERVICE OFFICES (ISO) STAMP OF ACCEPTANCE AND THE LOCAL FIRE MARSHALL'S STAMP OF APPROVAL.
6. SUBMIT COMPLETE DETAILS AND SECTIONS TO CLEARLY DEFINE AND CLARIFY THE DESIGN, INCLUDING A LIST OF MATERIALS DESCRIBING ALL PROPOSED MATERIALS WITH MANUFACTURER'S NAME AND CATALOG NUMBER.
7. THE CONTRACTOR SHALL PRODUCE HIS OWN HYDRAULICALLY DESIGNED SYSTEM FOR REVIEW AND APPROVAL BY THE LOCAL FIRE MARSHAL'S OFFICE AND ARCHITECT FOR USE ON THIS PROJECT.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CURRENT FIRE FLOW TEST.
9. FIRE PROTECTION ENGINEER/CONTRACTOR SHALL PERFORM ALL CALCULATIONS NECESSARY TO DETERMINE FIRE LINE SIZE AND IF A BOOSTER PUMP WILL BE REQUIRED.
10. (ALTERNATE BID) FIRE CONTRACTOR SHALL PROVIDE A FIRE BOOSTER PUMP IF REQUIRED. EXACT SIZE SHALL BE HYDRAULICALLY CALCULATED AND DETERMINED BY A LICENSED FIRE PROTECTION ENGINEER/CONTRACTOR. FIRE CONTRACTOR TO PROVIDE ALL COMPONENTS NECESSARY AND/OR RECOMMENDED TO PROVIDE A COMPLETE CODE COMPLIANT SYSTEM. (A FIRE BOOSTER PUMP IS NOT EXPECTED TO BE REQUIRED FOR THIS PROJECT. IF A FIRE BOOSTER PUMP WILL BE REQUIRED, THE FIRE PROTECTION ENGINEER/CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ARCHITECT) COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
11. IN AREAS SUBJECT TO FREEZING, PROVIDE DRY SPRINKLER SYSTEM OR COORDINATE WITH MECHANICAL SUBCONTRACTOR TO PROVIDE HEATING EQUIPMENT TO MAINTAIN SPACES AT 40°F OR ABOVE.
12. ALL FIRE PROTECTION CONTROL VALVES SHALL HAVE ELECTRONIC SUPERVISION AND SHALL INTERFACE WITH THE BUILDING FIRE ALARM SYSTEM.
13. FLOW AND TAMPER SWITCHES SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR AND INSTALLED BY SPRINKLER CONTRACTOR. WIRING SHALL BE PROVIDED BY FIRE ALARM CONTRACTOR.
14. UNDERWRITERS LABORATORIES (UL) AND/OR FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVED EQUIPMENT SHOULD BE UTILIZED WHERE APPLICABLE, AND THE DETAILS OF THE INSTALLATION SHOULD CONFORM TO FACTORY MUTUAL ENGINEERING ASSOCIATION (FMEA) GOOD PRACTICES.
15. A CORROSIVE-RESISTANT PLACARD SHALL BE PLACED ON THE BASE OF THE RISER STATING THE DESIGN CRITERIA AND RESULTING DEMAND, INCLUDING HOSE STREAM ALLOWANCES. ALL PIPING, FITTINGS, HANGERS, VALVES, AND DEVICES ARE TO COMPLY WITH NFPA 13.
16. ALL PIPES SHALL MEET OR EXCEED CORROSION RESISTANCE RATIO OF SCHEDULE 40 STEEL PIPE. FIELD COORDINATION IS REQUIRED ESPECIALLY WHEN CUTTING OR ADJUSTING PIPES FOR SPRINKLER INSTALLATION. ALL UNDERGROUND PIPING IS TO BE CHLORINATED PER THE REQUIREMENTS OF THE DEPARTMENT OF HEALTH. EXPOSED SPRINKLER PIPING SHALL BE PAINTED, COLOR SHALL BE SPECIFIED BY ARCHITECT.
17. RUN ALL PIPING PARALLEL OR PERPENDICULAR TO STRUCTURE IN ALL AREAS. SPRINKLER CONTRACTOR SHALL COORDINATE LOCATION OF HORIZONTAL SPRINKLER PIPING WITH OTHER TRADES TO MISS ALL LIGHT FIXTURES, DUCTS, MECHANICAL EQUIPMENT, AIR DIFFUSERS AND ALL OTHER ITEMS WHERE CEILING CLEARANCES ARE CLOSE.
18. THE FIRE PROTECTION SYSTEMS DESIGNER IS CAUTIONED TO CAREFULLY COORDINATE AND CONSIDER ROUTINGS OF ALL FIRE PROTECTION PIPES AND LOCATIONS OF FIRE SPRINKLER HEADS WITH ALL OTHER DISCIPLINES AND SYSTEMS, INCLUDING: STRUCTURAL FOUNDATIONS, COLUMNS, BEAMS, JOISTS, MECHANICAL DUCTWORK, MECHANICAL PIPING, MECHANICAL EQUIPMENT, ABOVE CEILING PLUMBING PIPING SYSTEMS, LIGHTING FIXTURES, SPEAKERS, FIRE ALARM SYSTEM DETECTION AND NOTIFICATION APPLIANCES, ETC. AS THERE WILL BE LIMITED SPACE ABOVE CEILINGS. THE SHORTEST ROUTE/DISTANCE BETWEEN ANY TWO POINTS MAY NOT BE THE ACCEPTABLE ROUTE DUE TO CONSTRUCTION FEATURES OR CONFLICTS WITH OTHER DISCIPLINES. THE FIRE PROTECTION DESIGNER IS CAUTIONED TO CAREFULLY REVIEW ALL PROJECT DRAWINGS AND DETAILS DURING DESIGN OF THE FIRE PROTECTION SYSTEMS AND TO PERFORM A DETAILED FIELD CHECK OF THE FIRE PROTECTION SHOP DRAWINGS.
19. THE INSTALLING FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE GENERAL CONTRACTOR AND ALL OTHER TRADES PRIOR TO FABRICATION AND DURING INSTALLATION. GREAT CARE AND GOOD CRAFTSMANSHIP DURING INSTALLATION IS EXPECTED AT ALL TIMES TO AVOID UNNECESSARY AND UNWANTED DAMAGE TO ANY PART OR FEATURE OF THE BUILDING. THE INSTALLING CONTRACTOR IS CAUTIONED TO VERIFY ANY AND ALL PENETRATIONS PRIOR TO CUTTING OR DRILLING HOLES FOR PIPES. CONTRACTOR IS FURTHER CAUTIONED TO PRE-DRILL HOLES FOR HANGER ATTACHMENTS SO AS NOT TO SPLIT, CRACK, OR OTHERWISE DAMAGE ANY STRUCTURAL FRAMING MEMBERS, CONCRETE SLABS, FOUNDATIONS, FOOTINGS, DECKING, ETC. PENETRATIONS OF STRUCTURAL MEMBERS (FOUNDATIONS, FOOTINGS, STRUCTURAL STEEL, WOOD OR OTHERWISE) IS STRICTLY PROHIBITED WITHOUT A PROPERLY EXECUTED, WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD. IT MAY BE NECESSARY FOR PIPES TO DROP DOWN, GO UNDER, AND RISE UP AT BEAMS, OTHER STRUCTURAL FEATURES, OR OTHER BUILDING SYSTEMS. AT ALL TIMES, THIS SHALL BE AT THE FIRE PROTECTION CONTRACTOR'S EXPENSE. THE FIRE PROTECTION CONTRACTOR IS CAUTIONED TO COORDINATE WITH ALL OTHER DISCIPLINES AT ALL TIMES.
20. PROVIDE SPRINKLER HEAD(S) FOR EACH ROOM/SPACE FOR COMPLETE PROTECTION IN COMPLIANCE WITH NFPA 13. CONTRACTOR SHALL COORDINATE COLOR OF SPRINKLER HEADS WITH OWNER/ARCHITECT.
21. PROVIDE COMPONENTS FOR FULL FLOW TESTING OF BACKFLOW DEVICE.
22. UPON COMPLETION OF THE SPRINKLER SYSTEM INSTALLATION, TEST AND RE-TEST THE COMPLETE INSTALLATION. MAKE ALL CORRECTIONS AS NECESSARY TO SECURE ACCEPTANCE BY FIRE MARSHALL. FURNISH ALL TEST EQUIPMENT AND PERSONNEL REQUIRED.
23. AFTER THE FIRE SPRINKLER SYSTEM HAS BEEN COMPLETELY TESTED, INSPECTED AND APPROVED, SECURE A LETTER OF FINAL ACCEPTANCE FROM THE ADMINISTRATIVE AUTHORITY ADDRESSED TO THE SPRINKLER COMPANY RESPONSIBLE FOR THE INSTALLATION, PREPARED IN TRIPLICATE. DELIVER ALL THREE COPIES TO THE ARCHITECT.

WATER FLOW TEST

STATIC PRESSURE: 79 PSI

RESIDUAL PRESSURE: 74 PSI

PITOT PRESSURE: 50 PSI

MEASURED FLOW: 1234 GPM

PERFORMED BY: CITY OF FAYETTEVILLE, ARKANSAS

DATE: 07.15.2025

LOCATION: 521 W. MAPLE STREET; W. MAPLE STREET AND N. FRISCO AVENUE

NOTE:
CONTRACTORS SHALL USE THIS WATER FLOW TEST DATA FOR BID PURPOSES ONLY. THE SUCCESSFUL BIDDER SHALL CONDUCT A NEW WATER FLOW TEST PRIOR TO DESIGN TO VERIFY THERE HAVE BEEN NO SIGNIFICANT CHANGES IN THE WATER SUPPLY, AND SHALL PROVIDE RESULTS (DATE, TIME, WITNESSES, ETC.) OF THE NEW WATER FLOW TEST IN THE SUBMITTAL DOCUMENTS.

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK HOWSE

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

FIRE PROTECTION NOTES

Sheet No.

FP0.00

Project Name
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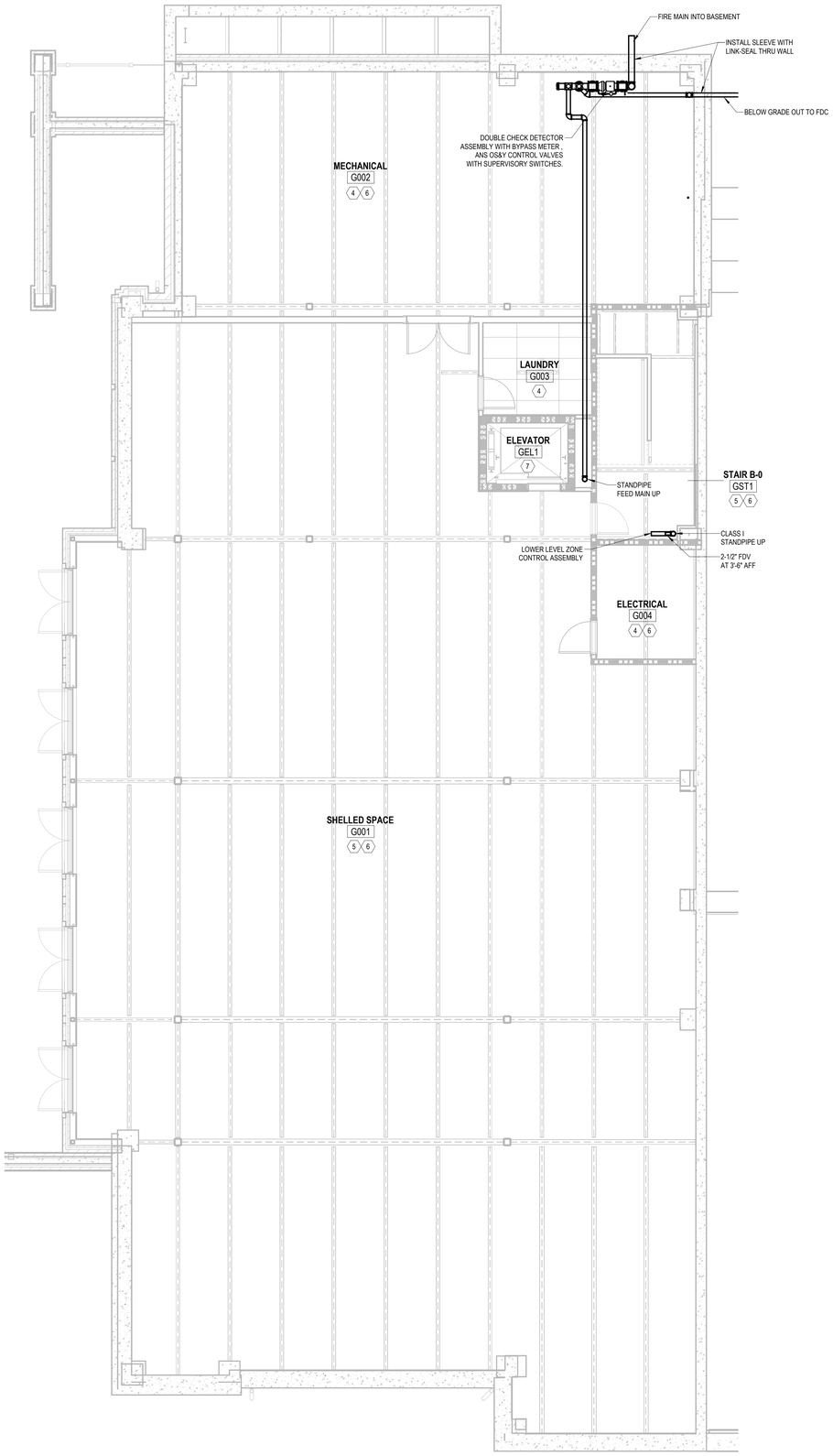

N

1 FIRE PROTECTION PLAN - LOWER LEVEL

3/16" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL CEILING PLANS FOR SPRINKLER HEAD LOCATIONS IN PUBLIC AREAS. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO PROVIDE ADEQUATE COVERAGE, LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
2. WHERE HEAD LOCATIONS ARE NOT SPECIFIED BY THE ARCHITECT, SPRINKLER HEAD LOCATIONS SHALL BE ARRANGED TO ALIGN IN CENTERS OF CEILING TILES, CENTERS OF ROOMS WITH CEILING FANS, LIGHTS, FIRE ALARM DEVICES, ETC. FOR VISUAL IMPACT.
3. FINISHES OF SPRINKLERS, COVER PLATES, ESCUTCHEONS, ETC. SHALL BE SELECTED BY THE ARCHITECT.
4. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS WHEN THE SPRINKLER DEFLECTOR IS INSTALLED BELOW 7'-6" AFF.
5. PROVIDE FIRE PROTECTION WITHIN COMBUSTIBLE CONCEALED SPACES AS REQUIRED BY NFPA 13. ALLOWABLE EXEMPTIONS WILL BE PERMITTED.

HAZARD CLASSIFICATIONS *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

- L — THIS SPACE SHALL BE CONSIDERED LIGHT HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 225 FT².
- O — THIS SPACE SHALL BE CONSIDERED ORDINARY HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 130 FT².

SPRINKLER HEAD TYPES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

- C — UTILIZE FULLY CONCEALED SPRINKLERS WITH SCREW-ON COVER PLATES IN THIS SPACE.
- I — UTILIZE INSTITUTIONAL SPRINKLERS IN THIS SPACE. INSTALL BLOCKING AND RESTRAINTS PER MANUFACTURER'S LITERATURE. SPRINKLER AND ESCUTCHEON FINISHES TO BE SELECTED BY ARCHITECT.
- S — UTILIZE SEMI-RECESSED, HORIZONTAL SIDEWALL, OR UPRIGHT SPRINKLERS IN THIS SPACE.

(#) PLAN NOTES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

1. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS IN THIS SPACE, REGARDLESS OF FINAL INSTALLED LOCATION OR HEIGHT.
2. NO FIRE PROTECTION IN THIS SPACE.
3. INSTALL MINIMUM 200°F RATED SPRINKLERS THROUGHOUT DISHWASHING AND KITCHEN SPACES DUE TO HIGH HEAT RELEASE FROM STEAM AND/OR COOKING EQUIPMENT.
4. PROTECT COVERED AREA WITH DRY FLEX SPRINKLERS OR DRY-TYPE HORIZTONAL SIDEWALL SPRINKLERS. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
FIRE PROTECTION PLAN - LOWER LEVEL

Sheet No.
FP1.00

Project Name
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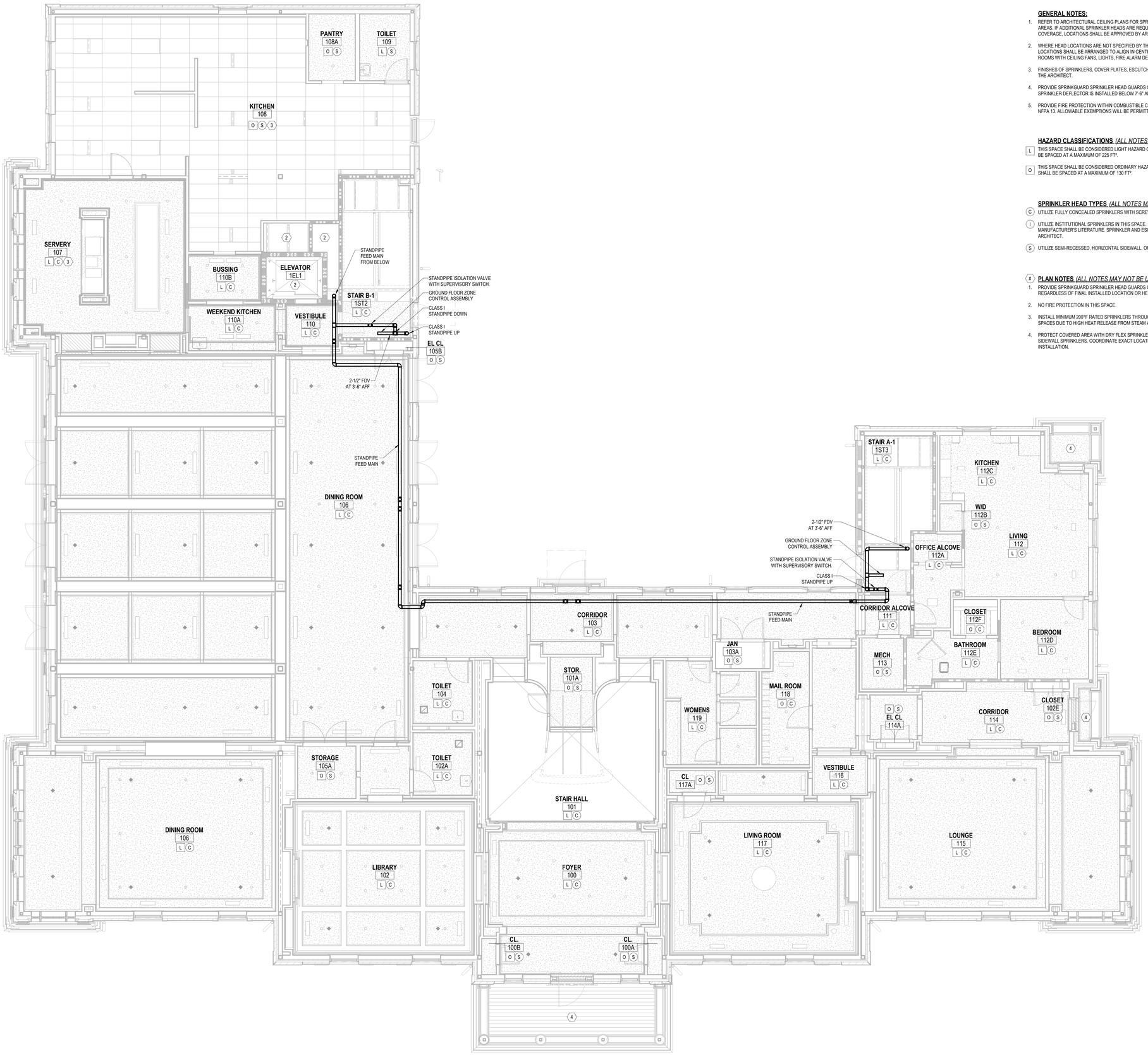

N

1 FIRE PROTECTION PLAN - GROUND FLOOR

3/16" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL CEILING PLANS FOR SPRINKLER HEAD LOCATIONS IN PUBLIC AREAS. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO PROVIDE ADEQUATE COVERAGE, LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
2. WHERE HEAD LOCATIONS ARE NOT SPECIFIED BY THE ARCHITECT, SPRINKLER HEAD LOCATIONS SHALL BE ARRANGED TO ALIGN IN CENTERS OF CEILING TILES, CENTERS OF ROOMS WITH CEILING FANS, LIGHTS, FIRE ALARM DEVICES, ETC. FOR VISUAL IMPACT.
3. FINISHES OF SPRINKLERS, COVER PLATES, ESCUTCHEONS, ETC. SHALL BE SELECTED BY THE ARCHITECT.
4. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS WHEN THE SPRINKLER DEFLECTOR IS INSTALLED BELOW 7'-6" AFF.
5. PROVIDE FIRE PROTECTION WITHIN COMBUSTIBLE CONCEALED SPACES AS REQUIRED BY NFPA 13. ALLOWABLE EXEMPTIONS WILL BE PERMITTED.

HAZARD CLASSIFICATIONS *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

L — THIS SPACE SHALL BE CONSIDERED LIGHT HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 225 FT².

O — THIS SPACE SHALL BE CONSIDERED ORDINARY HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 130 FT².

SPRINKLER HEAD TYPES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

C — UTILIZE FULLY CONCEALED SPRINKLERS WITH SCREW-ON COVER PLATES IN THIS SPACE.

I — UTILIZE INSTITUTIONAL SPRINKLERS IN THIS SPACE. INSTALL BLOCKING AND RESTRAINTS PER MANUFACTURER'S LITERATURE. SPRINKLER AND ESCUTCHEON FINISHES TO BE SELECTED BY ARCHITECT.

S — UTILIZE SEMI-RECESSED, HORIZONTAL SIDEWALL, OR UPRIGHT SPRINKLERS IN THIS SPACE.

 # PLAN NOTES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

1. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS IN THIS SPACE, REGARDLESS OF FINAL INSTALLED LOCATION OR HEIGHT.
2. NO FIRE PROTECTION IN THIS SPACE.
3. INSTALL MINIMUM 200°F RATED SPRINKLERS THROUGHOUT DISHWASHING AND KITCHEN SPACES DUE TO HIGH HEAT RELEASE FROM STEAM AND/OR COOKING EQUIPMENT.
4. PROTECT COVERED AREA WITH DRY FLEX SPRINKLERS OR DRY-TYPE HORIZTONAL SIDEWALL SPRINKLERS. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
FIRE PROTECTION PLAN - GROUND FLOOR

Sheet No.
FP1.01

Project Name
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1 FIRE PROTECTION PLAN - SECOND FLOOR
3/16" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL CEILING PLANS FOR SPRINKLER HEAD LOCATIONS IN PUBLIC AREAS. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO PROVIDE ADEQUATE COVERAGE, LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
2. WHERE HEAD LOCATIONS ARE NOT SPECIFIED BY THE ARCHITECT, SPRINKLER HEAD LOCATIONS SHALL BE ARRANGED TO ALIGN IN CENTERS OF CEILING TILES, CENTERS OF ROOMS WITH CEILING FANS, LIGHTS, FIRE ALARM DEVICES, ETC. FOR VISUAL IMPACT.
3. FINISHES OF SPRINKLERS, COVER PLATES, ESCUTCHEONS, ETC. SHALL BE SELECTED BY THE ARCHITECT.
4. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS WHEN THE SPRINKLER DEFLECTOR IS INSTALLED BELOW 7'-6" AFF.
5. PROVIDE FIRE PROTECTION WITHIN COMBUSTIBLE CONCEALED SPACES AS REQUIRED BY NFPA 13. ALLOWABLE EXEMPTIONS WILL BE PERMITTED.

HAZARD CLASSIFICATIONS *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

L — THIS SPACE SHALL BE CONSIDERED LIGHT HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 225 FT².

O — THIS SPACE SHALL BE CONSIDERED ORDINARY HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 130 FT².

SPRINKLER HEAD TYPES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

C — UTILIZE FULLY CONCEALED SPRINKLERS WITH SCREW-ON COVER PLATES IN THIS SPACE.

I — UTILIZE INSTITUTIONAL SPRINKLERS IN THIS SPACE. INSTALL BLOCKING AND RESTRAINTS PER MANUFACTURER'S LITERATURE. SPRINKLER AND ESCUTCHEON FINISHES TO BE SELECTED BY ARCHITECT.

S — UTILIZE SEMI-RECESSED, HORIZONTAL SIDEWALL, OR UPRIGHT SPRINKLERS IN THIS SPACE.

(#) PLAN NOTES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

1. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS IN THIS SPACE, REGARDLESS OF FINAL INSTALLED LOCATION OR HEIGHT.
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3. INSTALL MINIMUM 200°F RATED SPRINKLERS THROUGHOUT DISHWASHING AND KITCHEN SPACES DUE TO HIGH HEAT RELEASE FROM STEAM AND/OR COOKING EQUIPMENT.
4. PROTECT COVERED AREA WITH DRY FLEX SPRINKLERS OR DRY-TYPE HORIZTONAL SIDEWALL SPRINKLERS. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

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FIRE PROTECTION PLAN - SECOND FLOOR

Sheet No.

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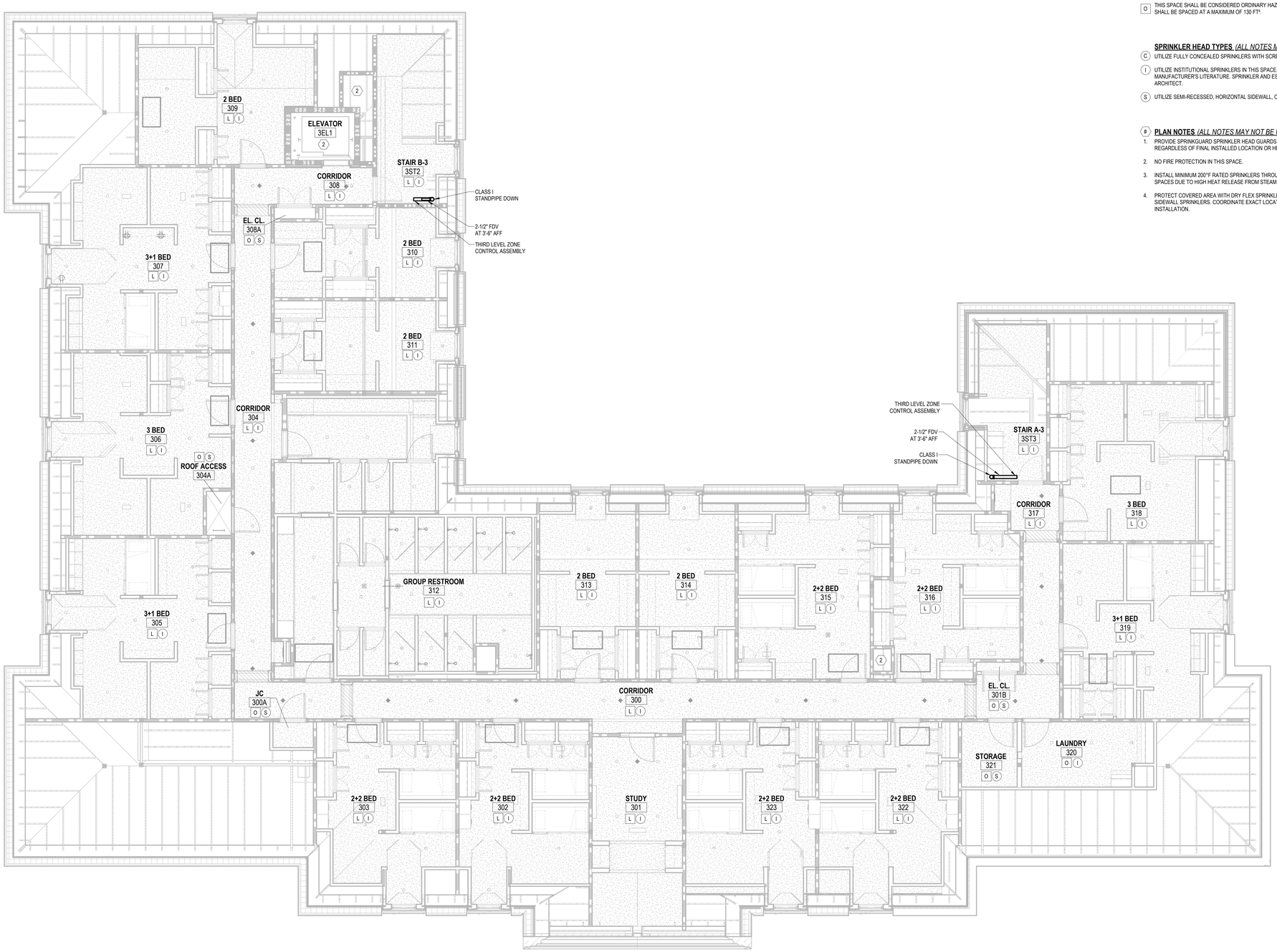

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1 FIRE PROTECTION PLAN - THIRD FLOOR

3/16" = 1'-0"

GENERAL NOTES:

1. REFER TO ARCHITECTURAL CEILING PLANS FOR SPRINKLER HEAD LOCATIONS IN PUBLIC AREAS. IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO PROVIDE ADEQUATE COVERAGE, LOCATIONS SHALL BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
2. WHERE HEAD LOCATIONS ARE NOT SPECIFIED BY THE ARCHITECT, SPRINKLER HEAD LOCATIONS SHALL BE ARRANGED TO ALIGN IN CENTERS OF CEILING TILES, CENTERS OF ROOMS WITH CEILING FANS, LIGHTS, FIRE ALARM DEVICES, ETC. FOR VISUAL IMPACT.
3. FINISHES OF SPRINKLERS, COVER PLATES, ESCUTCHEONS, ETC. SHALL BE SELECTED BY THE ARCHITECT.
4. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS WHEN THE SPRINKLER DEFLECTOR IS INSTALLED BELOW 7'-6" AFF.
5. PROVIDE FIRE PROTECTION WITHIN COMBUSTIBLE CONCEALED SPACES AS REQUIRED BY NFPA 13. ALLOWABLE EXEMPTIONS WILL BE PERMITTED.

HAZARD CLASSIFICATIONS *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

L THIS SPACE SHALL BE CONSIDERED LIGHT HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 225 FT².

O THIS SPACE SHALL BE CONSIDERED ORDINARY HAZARD OCCUPANCY. SPRINKLER HEADS SHALL BE SPACED AT A MAXIMUM OF 130 FT².

SPRINKLER HEAD TYPES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

C UTILIZE FULLY CONCEALED SPRINKLERS WITH SCREW-ON COVER PLATES IN THIS SPACE.

I UTILIZE INSTITUTIONAL SPRINKLERS IN THIS SPACE. INSTALL BLOCKING AND RESTRAINTS PER MANUFACTURER'S LITERATURE. SPRINKLER AND ESCUTCHEON FINISHES TO BE SELECTED BY ARCHITECT.

S UTILIZE SEMI-RECESSED, HORIZONTAL SIDEWALL, OR UPRIGHT SPRINKLERS IN THIS SPACE.

PLAN NOTES *(ALL NOTES MAY NOT BE USED ON THIS SHEET)* **:**

1. PROVIDE SPRINKGUARD SPRINKLER HEAD GUARDS ON ALL SPRINKLERS IN THIS SPACE, REGARDLESS OF FINAL INSTALLED LOCATION OR HEIGHT.
2. NO FIRE PROTECTION IN THIS SPACE.
3. INSTALL MINIMUM 200°F RATED SPRINKLERS THROUGHOUT DISHWASHING AND KITCHEN SPACES DUE TO HIGH HEAT RELEASE FROM STEAM AND/OR COOKING EQUIPMENT.
4. PROTECT COVERED AREA WITH DRY FLEX SPRINKLERS OR DRY-TYPE HORIZTONAL SIDEWALL SPRINKLERS. COORDINATE EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — JASON PATRICK NOWLIN — No. 14768

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
FIRE PROTECTION PLAN - THIRD FLOOR

Sheet No.
FP1.03

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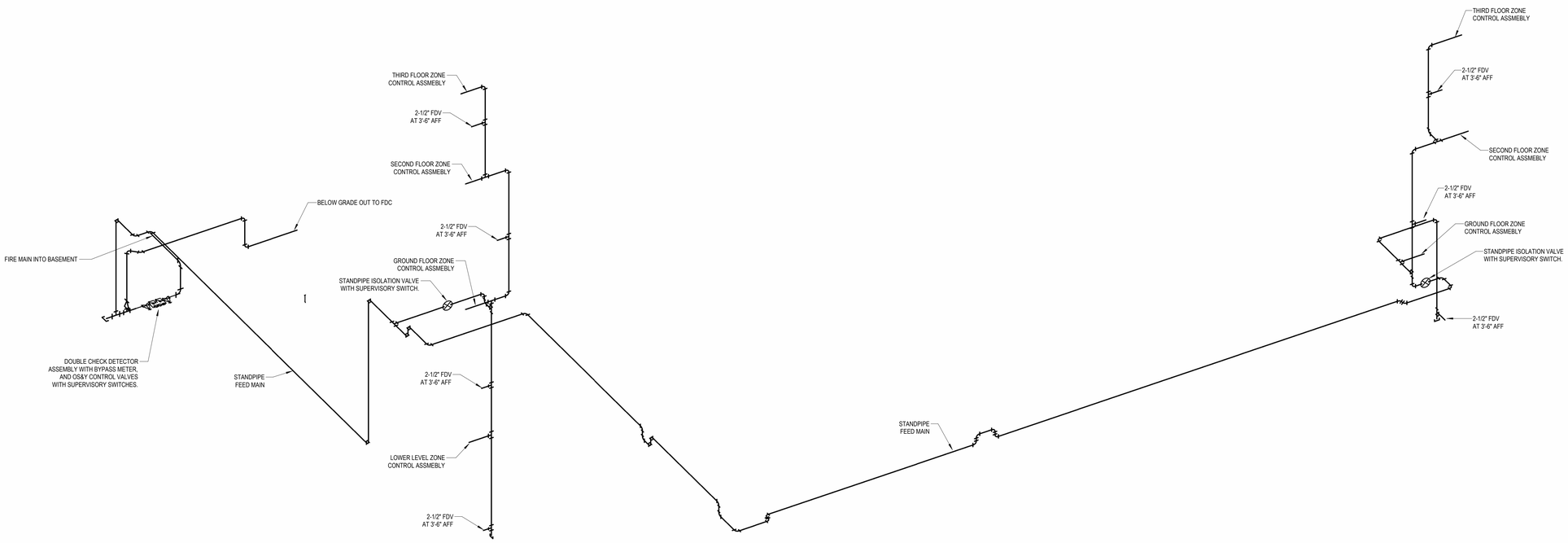
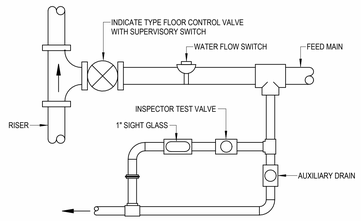
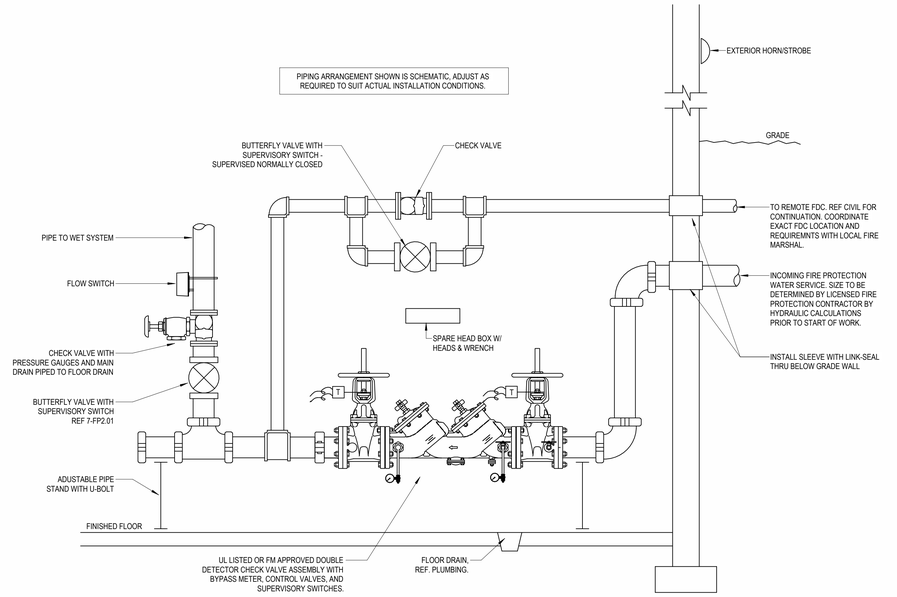


2 ISOMETRIC DIAGRAM



3 SPRINKLER ZONE CONTROL VALVE ASSEMBLY

SCALE: NTS



1 FIRE RISER DETAIL

SCALE: NTS

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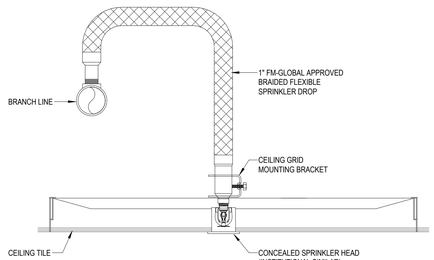
FIRE PROTECTION DETAILS

Sheet No.

FP2.00

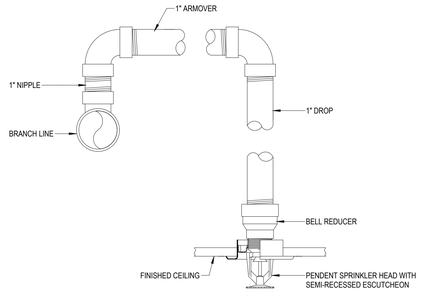


NOTES :
THIS INSTALLATION MAY BE USED IN LIEU OF THE HARD PIPE RETURN BEND INSTALLATION FOR EASE OF INSTALLATION, TENANT FLEXIBILITY, OWNER, OR SPECIFIC SPRINKLER HEAD LOCATION REQUIREMENTS.

INCLUDE THE EQUIVALENT PIPE LENGTH AS SPECIFIED IN THE MANUFACTURER'S PRODUCT DATA SHEETS IN THE HYDRAULIC CALCULATION REPORTS.

ONLY FM-GLOBAL APPROVED FLEXIBLE DROPS SHALL BE ALLOWED.

12 FLEXIBLE SPRINKLER DROP DETAIL
SCALE: NTS



11 RETURN BEND DETAIL
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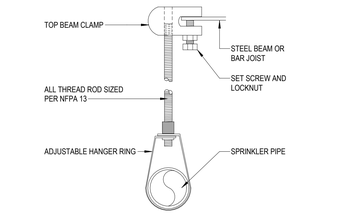

10 TOP BEAM CLAMP HANGER DETAIL
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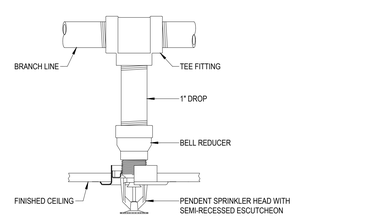

14 SEMI-RECESSED SPRINKLER HEAD DETAIL
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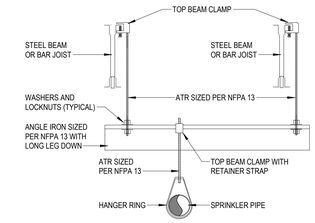

13 TRAPEZE HANGER DETAIL
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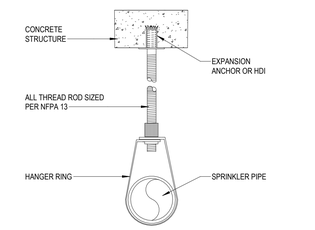

9 CONCRETE HANGER DETAIL
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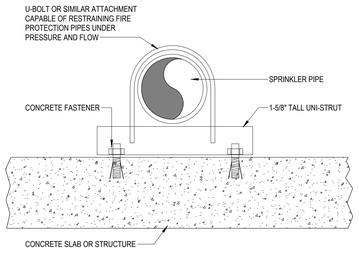

8 UNISTRUT SUPPORT DETAIL
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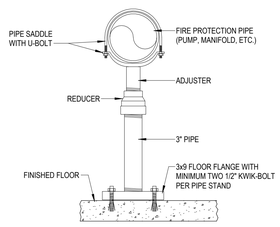

7 ADJUSTABLE PIPE STAND WITH U-BOLT DETAIL
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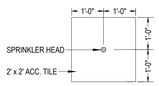
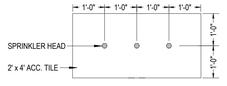


6 CENTER LINE OF 2' TILE DETAIL
SCALE: NTS



5 CENTER LINE OF 4' TILE DETAIL
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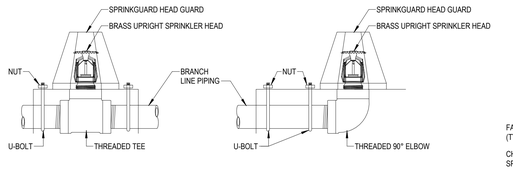
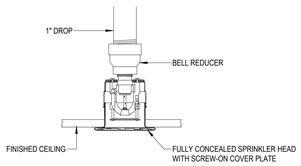


4 SPRINKGUARD HEAD GUARD DETAILS
SCALE: NTS



3 CONCEALED SPRINKLER HEAD DETAIL
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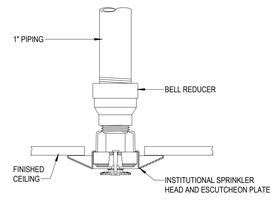

2 INSTITUTIONAL PENDANT DETAIL
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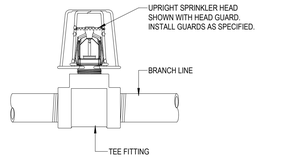

1 UPRIGHT SPRINKLER HEAD DETAIL
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ABBREVIATIONS
(AS APPLICABLE)

(E)	EXISTING
3CS	THREE-COMPARTMENT SINK
A	AMP, AMPERE
A/E	ARCHITECT / ENGINEER
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONER, AIR CONDITIONING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIG INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
ATC	AUTOMATIC TEMP CONTROLS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALANCING VALVE
BWV	BACKWATER VALVE
C	COMMON
CA	COMBUSTION AIR
CD	CEILING SUPPLY AIR DIFFUSER
CD	CONDENSATE DRAIN
CF	CEILING FAN
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CKT	CIRCUIT
CLG	CEILING
CO	CARBON MONOXIDE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONFIG	CONFIGURATION
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
CU	COPPER
CV	CIRCUIT VENT (APC SECTION 914)
CV	CONSTANT VOLUME
CWV	COMBINATION WASTE & VENT (APC SECTION 915)
DB	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DF	DRINKING FOUNTAIN
DH	DUCT HEATER
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DISC	DISCONNECT
DN	DOWN
DN	DOWNSPOUT NOZZLE
DOM	DOMESTIC
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EM	EMERGENCY LIGHTING
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FM	FLOW METER
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPWH	FREEZE PROOF WALL HYDRANT
FS	FLOOR SINK
FS	FLOW SWITCH
FT	FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GI	GREASE INTERCEPTOR
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRAINS
GR	GROUND
HB	HOSE BIBB
HD	HEAD
HD	HUB DRAIN
HOA	HAND / OFF / AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HS	HAND SINK
HS	HAND SWITCH
HZ	HERTZ
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
I/O	INPUT / OUTPUT
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN	INCHES
IN WC	INCHES OF WATER COLUMN
IND	INDIRECT
IPLV	INTEGRATED PART LOAD VALUE
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB, #	POUNDS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MHB	MIXING HOSE BIBB
MIN	MINIMUM
MLO	MAIN LUG ONLY
MM	MILLIMETER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOP SINK
MUA	MAKE-UP AIR
MZ	MULTI-ZONE
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOCIATION
NFC	NOT FOR CONSTRUCTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PNLBD	PANELBOARD
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RAW	RETURN AIR WALL GRILLE
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
RD	RADIATION DAMPER
RD	ROOF DRAIN
REBAL	REBALANCE
RECIRC	RECIRCULATE
REF	REFERENCE
REL	RELOCATED
REQ	REQUIRED
REV	REVISION, REVISE
RG	RETURN GRILLE
RH	RADIANT HEATER
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RO	REVERSE OSMOSIS
ROD	ROOF OVERFLOW DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SAW	SUPPLY AIR WALL REGISTER
SC	SECURITY CAMERA
SC	SENSIBLE CAPACITY
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SM	SHEET METAL
SMACNA	SHEET METAL & A/C CONT NATL ASSOC.
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
STD	STANDARD
SZ	SINGLE-ZONE
TAB	TESTING, ADJUSTING, BALANCE
TC	TOTAL CAPACITY
TD	TEMPERATURE DIFFERENCE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TFD	TO FLOOR DRAIN
TG	TRANSFER GRILLE
THRU	THROUGH
TMV	THERMOSTATIC MIXING VALVE
TP	TOTAL PRESSURE
TP	TRAP PRIMER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
U/F	UNDER FLOOR
U/G	UNDER GROUND
U/S	UNDER SLAB
UC	UNDERCUT DOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UR	URINAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
V	VOLT
VA	VOLT-AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VBF	VENT BELOW FLOOR
VBG	VENT BELOW GRADE
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WATTS
w/	WITH
w/o	WITHOUT
WB	WASHER BOX
WB	WET-BULB TEMPERATURE
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE
WV	WET VENT (APC SECTION 912)
XFMR	TRANSFORMER

PLUMBING SYMBOLS
(AS APPLICABLE)

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC HOT WATER RETURN (HWR)
SW	SOFT WATER (SW)
PWS	PURE WATER SUPPLY (PWS)
PWR	PURE WATER RETURN (PWR)
G	NATURAL GAS (G) - LOW PRESSURE
G#	NATURAL GAS (G) - # PSI
LP	LIQUID PROPANE (LP) - LOW PRESSURE
LP#	LIQUID PROPANE (LP) - # PSI
A	COMPRESSED AIR (A)
SS	SANITARY SEWER (SS)
OW	OIL WASTE (OW)
GW	GREASE WASTE (GW)
ST	STORM DRAIN (ST)
CD	CONDENSATE (CD)
V	VENT (V)
	PIPE: RISE / FALL / TEE DOWN
	SHUT-OFF VALVE (SOV)
	BALANCING VALVE (BV)
	PRESSURE REDUCING VALVE (PRV)
	STRAINER w/ DRAIN VALVE
	CHECK VALVE
	REDUCED PRESSURE ZONE (RPZ)
	PRESSURE GAUGE W/ INSERTION WELL
	THERMOMETER W/ INSERTION WELL
	VACUUM RELIEF VALVE
	FLOOR CLEANOUT (FCO)
	FLOOR DRAIN (FD), ROUND / RECTANGULAR
	FLOOR SINK (FS), FULL / HALF GRATE
	GAS PRESSURE REGULATOR
	AUTOMATIC GAS VALVE
	STORM DRAIN DOWNSPOUT NOZZLE (DN)
	FREEZE PROOF WALL HYDRANT (FPWH)
	HOSE BIBB (HB)
	CLEANOUT - INLINE / WALL (CO / WCO)
	FLANGE
	UNION
	FLEXIBLE PIPE CONNECTOR
	CAPPED PIPE

ANNOTATION SYMBOLS
(AS APPLICABLE)

SYMBOL	DESCRIPTION
	PLAN NOTE (PER SHEET)
XXXX	KITCHEN EQUIPMENT REFERENCE NUMBER
	POINT OF CONNECTION TO EXISTING
	TERMINATION OF DEMOLITION
	CONTINUATION
1 / M1	DETAIL NUMBER / SHEET NUMBER
1 / M1	SECTION CUT DESIGNATION

APPLICABLE CODES

2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING
2021 ARKANSAS MECHANICAL CODE (AMC)
2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)
2018 ARKANSAS PLUMBING CODE (APC)
2018 ARKANSAS FUEL GAS CODE (AFGC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

ADA NOTES

THIS APPLIES TO HANDICAPPED ACCESSIBLE FIXTURES ONLY. REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE ELEVATIONS.

WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER LINE OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 29" ABOVE THE FINISH FLOOR. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF THE BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE THE FINISH FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

FAUCETS / BATHTUB / SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

SHOWER: A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36"X36". THE SEAT SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE CONTROLS AND 17" TO 19" FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. SHOWER CONTROLS SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE SEAT AND SHALL BE LOCATED ON THE SAME WALL AS THE SHOWER HEAD, AT MINIMUM HEIGHT OF 38" AND A MAXIMUM HEIGHT OF 48". IN ADDITION TO THE FIXED SHOWER HEAD PROVIDE A HAND HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. IN A 30"X 60" SHOWER UNIT A FIXED SEAT SHALL BE PROVIDED. IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A KNEE CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6 1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

DRINKING FOUNTAINS / WATER COOLERS: WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR THERE SHALL BE A DRINKING FOUNTAIN WHICH IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEEL CHAIRS AND ONE ACCESSIBLE TO THOSE HAVING DIFFICULTY BENDING OR STOOPING. THIS CAN BE ACCOMPLISHED BY USING A "HI-LO" FOUNTAIN. LOWEST SPOUT SHALL BE NO HIGHER THAN 36" ABOVE FINISHED FLOOR AND HIGHEST SPOUT SHALL BE MOUNTED AT 40" ABOVE FINISH FLOOR. SPOUTS SHALL BE AT FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE OF BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR AT LEAST 27" HIGH, 30" WIDE, AND 17" TO 19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" OUT INTO WALKWAYS.

GAS PIPING NOTES

1. COORDINATE ALL DETAILS OF THE GAS PIPING SYSTEM WITH THE LOCAL GAS COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO: THE LOCATION OF THE GAS METER, GAS PRESSURE REQUIREMENTS, RELOCATION AND/OR UPSIZING OF EXISTING SERVICE PIPING IF REQUIRED. PAY ALL COSTS REQUIRED BY GAS COMPANY. CONTACT GAS COMPANY FOR SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO METER. GAS METER AND SERVICE REGULATOR TO BE PROVIDED BY UTILITY COMPANY. VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER GAS UTILITY COMPLETES INSTALLATION. THE NATURAL GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 1000 BTU (1 MBH) PER CUBIC FOOT AND A SPECIFIC GRAVITY OF 0.6. NEW GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE AND GAS COMPANY REQUIREMENTS.
3. THE CONTRACTOR SHALL SUPPLY ALL PERMITS AND LICENSES REQUIRED FOR THE WORK, AND FOR ALL INSPECTIONS REQUIRED.
4. PROVIDE NEW GAS SERVICE PIPING FOR NEW EQUIPMENT SIZED AS INDICATED IN ACCORDANCE WITH FUEL GAS CODE FOR PRESSURE AND DEVELOPED LENGTH AS NOTED ON PLANS. CONNECT TO GAS PIPING AS SHOWN ON PLANS AND PROVIDE METER (IF REQUIRED), PRESSURE REGULATOR (SET TO EQUIPMENT DELIVERY PRESSURE, IF REQUIRED), VALVES, AND ACCESSORIES PER THE SPECIFICATIONS & LOCAL CODES.
5. PROVIDE GAS PIPING UP TO AND INCLUDING FINAL CONNECTION TO THE EQUIPMENT.
6. PROVIDE START-UP ASSISTANCE FOR ALL GAS-FIRED EQUIPMENT. COORDINATE ADJUSTMENT OF REGULATORS WITH SET-UP PERSONNEL TO ENSURE CORRECT GAS FLOW PRESSURES FOR PROPER OPERATION OF ALL EQUIPMENT.
7. ALL PIPING EXPOSED TO THE OUTDOORS OR LOCATED IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL.
8. PIPE GAS REGULATOR VENTS LOCATED INDOORS TO EXTERIOR OR PROVIDE VENT LIMITING DEVICE.

PLUMBING GENERAL NOTES
(AS APPLICABLE)

1. NOTES APPLY TO ALL PLUMBING SHEETS.
2. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
3. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AS REQUIRED BY LOCAL AND STATE CODES.
4. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.
5. ALL PLUMBING EQUIPMENT SHOWN ON THE PLUMBING PLANS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR WILL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER.
6. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK. PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE FLOOR PLANS FOR EXACT LOCATION OF PIPE ROUTING. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.
8. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED EQUIPMENT OR PIPING LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS.
10. COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
11. THE CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. NO STRUCTURAL MEMBERS MAY BE CUT OR MODIFIED WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
12. CUTTING OF ROOF AND FLASHING OF PIPE CURBS, SANITARY VENTS THROUGH ROOF, ETC., SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR, AT THIS CONTRACTOR'S EXPENSE, TO MAINTAIN THE ROOF WARRANTY.
13. THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (BASIS OF DESIGN), THE SELECTION OF WHICH INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, MODELS, ETC. ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE ALL DIFFERENCES WITH OTHER TRADES. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED.
14. PLUMBING CONTRACTOR (PC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
    A. DISCONNECTS:
        - WHERE NOTE FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.
        - WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY PC, INSTALLED BY EC.
15. NEW PLUMBING EQUIPMENT AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
16. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. IF PIPE ROUTING OVER ELECTRICAL PANELS IS UNAVOIDABLE, PROVIDE DRIP CATCH PANS UNDER THE ENTIRE LENGTH OF PIPE WHERE INSTALLED ABOVE ELECTRICAL EQUIPMENT. PANS SHALL BE MANUFACTURED, FIELD, OR SHOP FABRICATED OUT OF GALVANIZED SHEET METAL COMPLYING WITH ASTM A653/A653M. END CAP AND SEAMS SHALL BE WELDED OR SOLDERED AND SHALL BE TESTED TO BE LEAK PROOF. PANS SHALL BE CONSTRUCTED SO THAT THEY ARE LARGER THAN THE DRAIN LINE SERVING.
17. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.
18. PROVIDE SLEEVE FOR ALL WATER PIPE FLOOR PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH MASTIC AND ENSURE OF NO WATER PENETRATIONS.
19. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTINGS, ETC. WHERE REQUIRED AND AS NOTED ON PLANS.
20. COORDINATE PLUMBING CONNECTIONS EXTERIOR TO THE BUILDING WITH CIVIL AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ. VERIFY INVERT AND SLOPE OF INCOMING SANITARY SEWER BEFORE TRENCHING. INVERT ELEVATIONS SHOWN ON THE PLUMBING PLANS ARE FOR CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD VERIFICATION OF THE CONNECTION ELEVATION.
21. SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE SMALLER THAN 3" DIAMETER AND 1/8" PER FOOT FALL FOR PIPE 3" DIAMETER AND LARGER, UNLESS NOTED OTHERWISE.
22. ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.
23. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, CLEAN-OUTS, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT.
24. ALL FLOOR DRAINS SHALL HAVE MINIMUM 4" DEEP SEAL TRAPS.
25. PROVIDE TRAP GUARDS OR TRAP SEAL PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS AS SHOWN OR AS REQUIRED BY AHJ. CONTRACTOR SHALL VERIFY REQUIREMENTS. PROVIDE SHUT-OFF VALVE UPSTREAM OF TRAP PRIMER VALVE. LOCATE TRAP PRIMER VALVES IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL. DO NOT LOCATE TRAP PRIMER VALVES OR PIPING IN PUBLIC ACCESSIBLE AREAS.
26. LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT FOR PLACEMENT. DO NOT LOCATE DRAINS UNDER THE FOOTPRINT OF THE MECHANICAL EQUIPMENT.
27. FLOOR CLEANOUTS SHALL HAVE TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES (CARPET, TILE, ETC.) WHETHER SPECIFIED OR NOT. REFER TO ARCHITECTURAL SHEETS FOR FLOOR FINISHES.
28. INSTALL VTR'S AND FLUES A MINIMUM 5'-0" FROM PARAPETS OR WALLS AND 10'-0" FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.
29. WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
30. PROVIDE INSULATION ON ALL WATER PIPING ABOVE FLOOR, ROOF DRAIN BODIES, AND HORIZONTAL ROOF DRAIN PIPING.
31. INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.
32. VALVES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE. ALL WATER SHUT-OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.
33. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED BY MANUFACTURER, GOOD PRACTICE, AHJ AND/OR CODE, OR MINIMUM OF ONE ARRESTOR FOR EACH FIXTURE OR BANK OF FIXTURES. WATER HAMMER ARRESTORS SHALL BE THE SAME SIZE AS PIPE INSTALLED ON, MINIMUM. AIR CHAMBERS SHALL NOT BE USED.
34. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
35. PROVIDE AND INSTALL VACUUM BREAKER (WATTS 8A OR EQUAL) ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS WITHOUT INTEGRAL VACUUM BREAKER.
36. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.
37. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
38. PROVIDE INSULATION AT ALL EXPOSED HOT WATER & DRAIN PIPING FOR HANDICAP FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
39. CLEAN FAUCET AERATORS AND P

KITCHEN EQUIPMENT PLUMBING SCHEDULE

MARK	QTY	FIXTURE	CW	HW	WASTE	VENT	GAS SIZE	GAS MBH	NOTES
G21	1	CONVECTION OVEN	---	---	---	---	3/4"	140	G
G22	2	FRYER	---	---	---	---	3/4"	90	G
G24	1	HOTPLATE	---	---	---	---	3/4"	198	G
G25	1	GRIDDLE	---	---	---	---	3/4"	90	G
P11B	1	WORKTABLE W/SINK	1/2"	1/2"	2"	1-1/2"	---	---	C,D,E
P11C	1	WORKTABLE W/SINK	1/2"	1/2"	(IND.)	---	---	---	A,D
P15	1	WORKTABLE W/SINK	1/2"	1/2"	2"	1-1/2"	---	---	C,D,E
P32	1	HAND SINK	1/2"	1/2"	2"	1-1/2"	---	---	C,D,E
P41	1	MOP SINK	1/2"	1/2"	3"	2"	---	---	---
P55	1	ICE MAKER	3/8"	---	(IND.)	---	---	---	A,F,H
P56	1	SODA DISPENSER	3/8"	---	(IND.)	---	---	---	A,F,H
P57	1	COFFEE	1/2"	---	---	---	---	---	F,H
P58	1	JUICE DISPENSER	1/2"	---	---	---	---	---	F,H
P60	1	DROP-IN HOT	---	---	(IND.)	---	---	---	A
P61	1	DROP-IN COLD	---	---	(IND.)	---	---	---	A
P65	1	3-COMP/DISHTABLE	(2) 1/2"	(2) 1/2"	(IND.)	---	---	---	A,D
P66	1	DISHMACHINE	3/4"	---	(IND.)	---	---	---	A,D
P68	1	SOILED DISHTABLE	1/2"	1/2"	(IND.)	---	---	---	A,D
P85	1	WALK-IN COOLER/FREEZER	---	---	(IND.)	---	---	---	B

GENERAL NOTES (ALL FIXTURES AS APPLICABLE):

1. KITCHEN EQUIPMENT FURNISHED BY OTHERS. FINAL CONNECTIONS BY PLUMBING CONTRACTOR.
2. VERIFY ALL PLUMBING CONNECTION AND ROUGH-IN REQUIREMENTS WITH KEC.
3. REFER TO FOOD SERVICE SHEETS FOR ADDITIONAL INFORMATION.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PLUMBING CONTRACTOR TO EXTEND FULL SIZE WASTE LINE TO FLOOR SINK WITH 2" AIR GAP.
B. ROUTE FULL-SIZE CONDENSATE LINES FROM EVAPORATORS TO FLOOR DRAIN WITH 2" AIR GAP. INSTALL HEAT TRACE ON PIPING LOCATED IN FREEZER.
C. PROVIDE P-TRAP WITH CLEANOUT PLUG AND ESCUTCHEON.
D. PROVIDE CHROME PLATED ANGLE SUPPLY STOPS AND ESCUTCHEONS.
E. PROVIDE TMV SET TO 105°F.
F. PROVIDE CHECK VALVE CONFORMING TO ASSE 1022 (WATTS SD-3 OR EQUAL) IN WATER SUPPLY LINE.
G. PROVIDE FLEXIBLE GAS PIPING AND QUICK DISCONNECT TO EQUIPMENT.
H. PLUMBING CONTRACTOR TO EXTEND WATER SUPPLY LINE THROUGH FILTER (IF REQUIRED BY KEC) AND FINAL CONNECTION TO EQUIPMENT.

GAS STORAGE WATER HEATER SCHEDULE

MARK	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	STORAGE (GAL)	INPUT (MBH)	OUTPUT (MBH)	EFFICIENCY	EWT (°F)	LWT (°F)	RECOVERY RATE (GPH)	ELECTRICAL	OPERATING WEIGHT (LB)
GWH-1	KITCHEN	LOCHINVAR	SWR200N	90	199	191.0	96%	55	140	270	120/1/60	1475
GWH-2	HOUSE	LOCHINVAR	SWR200N	90	199	191.0	96%	55	120	353	120/1/60	1475
GWH-3	HOUSE	LOCHINVAR	SWR200N	90	199	191.0	96%	55	120	353	120/1/60	1475

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. PROVIDE EXPANSION TANK PER PLANS AND EQUIPMENT SCHEDULE.
2. REFER TO PLANS AND DETAILS FOR MOUNTING REQUIREMENTS.
3. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE.
4. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.

ELECTRIC STORAGE WATER HEATER SCHEDULE

MARK	QTY	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	STORAGE (GAL)	INPUT (KW)	OUTPUT (MBH)	EWT (°F)	LWT (°F)	RECOVERY RATE (GPH)	ELECTRICAL	OPERATING WEIGHT (LB)
EWH-1	1	A.O. SMITH	DEL-40	35	4	13.6	55	120	25.2	208/1/60, 19.2 FLA	410

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. PROVIDE EXPANSION TANK PER PLANS AND EQUIPMENT SCHEDULE.
2. REFER TO PLANS AND DETAILS FOR MOUNTING REQUIREMENTS.
3. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE.

PUMP SCHEDULE

MARK	QTY	TYPE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	GPM	HEAD (FT)	ELECTRICAL	DESCRIPTION
CP-1	1	IN-LINE CIRCULATOR	BELL & GOSSETT	NBF-22U	3	12	120/1/60, 92 W (PLUG IN)	LEAD-FREE BRONZE BODY, WET ROTOR, 3/4" SWEATED BRONZE UNION CONNECTION. PROVIDE FLEXIBLE PLUG-IN CORD. PROVIDE HOT WATER RETURN LINE AQUASTAT AND TIME CLOCK.
CP-2	1	IN-LINE CIRCULATOR	BELL & GOSSETT	NBF-9UI,W	2	7	120/1/60, 41 W (PLUG IN)	LEAD-FREE BRONZE BODY, WET ROTOR, 3/4" SWEATED BRONZE UNION CONNECTION. PROVIDE FLEXIBLE PLUG-IN CORD. PROVIDE HOT WATER RETURN LINE AQUASTAT AND TIME CLOCK.
CP-3	1	IN-LINE CIRCULATOR	BELL & GOSSETT	NBF-9UI,W	2	7	120/1/60, 41W (PLUG IN)	LEAD-FREE BRONZE BODY, WET ROTOR, 3/4" SWEATED BRONZE UNION CONNECTION. PROVIDE FLEXIBLE PLUG-IN CORD. PROVIDE HOT WATER RETURN LINE AQUASTAT AND TIME CLOCK.
SP-1	1	ELEVATOR SUMP PUMP	LIBERTY	283	50	15	120/1/60 8.0 FLA (PLUG IN)	AUTOMATIC EFFLUENT PUMP, 1/2 HP, 1-1/2" DISCHARGE, WIDE-ANGLE FLOAT, PREMANENTLY SEALED AND LUBRICATED BEARINGS, SERIES (PIGGY-BACK) PLUG, POWER CORD (LENGTH AS REQUIRED), LIBERTY ALM-2W TYPE 3R HIGH-LEVEL INDOOR/OUTDOOR ALARM WITH AUXILIARY CONTACTS. INTERFACE WITH BAS.

PLUMBING EQUIPMENT SCHEDULE

MARK	QTY	EQUIPMENT	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	ELECTRICAL	DESCRIPTION
ET-1	1	EXPANSION TANK	AMTROL	ST-20VC-DD	---	ASME THERMAL EXPANSION TANK, 8.6 GALLON CAPACITY, 0.37 MAXIMUM ACCEPTANCE FACTOR, 150 PSI MAXIMUM WORKING PRESSURE, STAINLESS STEEL WATER CONNECTION, FACTORY STANDARD PRECHARGE, 12" DIAMETER X 22" TALL, ANSI/NSF 61 CERTIFIED.
ET-2	1	EXPANSION TANK	AMTROL	ST-30VC-DD	---	ASME THERMAL EXPANSION TANK, 16.5 GALLON CAPACITY, 0.68 MAXIMUM ACCEPTANCE FACTOR, 150 PSI MAXIMUM WORKING PRESSURE, STAINLESS STEEL WATER CONNECTION, FACTORY STANDARD PRECHARGE, 15" DIAMETER X 25" TALL, ANSI/NSF 61 CERTIFIED.
ET-3	1	EXPANSION TANK	AMTROL	ST-5C-DD	---	ASME THERMAL EXPANSION TANK, 2.0 GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, 150 PSI MAXIMUM WORKING PRESSURE, STAINLESS STEEL WATER CONNECTION, FACTORY STANDARD PRECHARGE, 8" DIAMETER X 14" TALL, ANSI/NSF 61 CERTIFIED.
GI-1	1	GREASE INTERCEPTOR	SCHIER	GB-250	---	HYDROMECHANICAL, SEAMLESS MOLDED POLYETHYLENE TANK, 100 GPM, 277 GALLON LIQUID CAPACITY, 1,895 LB GREASE CAPACITY, INTEGRAL AIR RELIEF / ANTI-SIPHON, ASME A112.14.3 (TYPE D, FLOW CONTROL NOT REQUIRED) AND CSA B481.1 CERTIFIED. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LB TRAFFIC LOAD CAPACITY. PROVIDE RISERS AS REQUIRED.
GSP-1	1	GREASE SAMPLING PORT	SCHIER	SV10	---	GREASE SAMPLING PORT WITH OFFSET CONNECTIONS , 4" PLAIN END INLET/OUTLET. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LB TRAFFIC LOAD CAPACITY. PROVIDE RISERS AS REQUIRED.

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION
AD-1	FLOOR DRAIN (SQUARE)	ZURN	Z610	12-1/2" SQUARE TOP HEAVY-DUTY DRAIN. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION FLASHING CLAMP AND FRAME FOR HEAVY-DUTY LOOSE, SLOTTED DURESIST GRATE, WITH SUSPENDED POLYPROPYLENE SEDIMENT BUCKET.
AD-2	AREA DRAIN (SQUARE)	ZURN	Z158-DT	10" SQUARE TOP PROM-DECK DRAIN, DURA-COATED CAST IRON BODY WITH ROTATABLE SQUARE PROMENADE FRAME WITH SEEPAGE SLOTS, FRAME CLAMPS AND DECORATIVE LIGHT DUTY HEEL-PROOF GRATE, NICKEL BRONZE VENEER FRAME AND GRATE, UNDERDECK CLAMP, VANDAL PROOF SECURED TOP.
DN	DOWNSPOUT NOZZLE	ZURN	ZANB199	NICKEL BRONZE BODY, DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE. REMOVABLE STAINLESS SCREEN.
FCO	FLOOR CLEANOUT	ZURN	Z1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, ABS TAPERED THREAD PLUG. IN FINISHED AREAS, PROVIDE POLISHED NICKEL-BRONZE LIGHT DUTY TOP. PROVIDE SCORIATED CAST IRON EXTRA-HEAVY-DUTY SECURED TOP WHERE LOCATED IN UNFINISHED AREAS SUCH AS MECHANICAL ROOMS OR WHERE SUBJECT TO DAMAGE.
FD-1	FLOOR DRAIN (ROUND)	ZURN	Z415-BZ1	6" ROUND "TYPE B" POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, CONCRETE SHIELD, UP TO 1" OF VERTICAL POST POUR ADJUSTMENT, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS.
FD-2	FLOOR DRAIN (ROUND)	ZURN	Z511	9" ROUND TOP. DURA-COATED CAST IRON DEEP SUMP BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY CAST IRON DEEP FLANGE GRATE. PROVIDE WITH SEDIMENT BUCKET.
FD-3	FLOOR DRAIN (SQUARE)	ZURN	Z662-HF	16" SQUARE TOP DRAIN. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY HIGH FLOW DUCTILE IRON GRATE WITH SUSPENDED SEDIMENT BUCKET.
FPRH	FREEZE PROOF ROOF HYDRANT	ZURN	Z1388XL	NON-FREEZE, LEAD-FREE, EXPOSED, DURA-COATED CAST IRON HEAD AND LIFT HANDLE WITH LOCK OPTION, GALVANIZED STEEL CASING, VACUUM BREAKER, 3/4" MALE HOSE CONNECTION.
FPWH	FREEZE PROOF WALL HYDRANT	ZURN	Z1320XL	NON-FREEZE, LEAD-FREE, ENCASED, ANTI-SIPHON AUTOMATIC DRAINING WITH INTEGRAL BACKFLOW PREVENTER, STAINLESS STEEL BOX AND HINGED COVER, OPERATING KEY LOCK, 3/4" MALE HOSE CONNECTION.
FS	FLOOR SINK	ZURN	Z1750	12" SQUARE, 6" DEEP, 16 GAGE, ALL TYPE 304 STAINLESS STEEL, LIGHT-DUTY SANI-FLOR RECEPTOR WITH NON-TILT, LOOSE SET FULL GRATE (HALF GRATE WHERE SHOWN ON PLANS) WITH 1/2" SQUARE OPENINGS AND ANTI-SPLASH STAINLESS STEEL INTERIOR DOME STRAINER.
PRV	PRESSURE REDUCING VALVE	ZURN	500XL	BRONZE BODY WITH INTEGRAL BY-PASS CHECK VALVE. PROVIDE PRESSURE GAUGE DOWNSTREAM AND SHUT-OFF VALVES. MAXIMUM OPERATING PRESSURE OF 300 PSI. CONFORM TO ASSE 1003.
RD	Z165-3NH	ZURN	Z165	8-3/5" DIAMETER COMBINATION MAIN ROOF AND OVERFLOW DRAIN W/ROOF DRAIN W/LOW SILHOUETTE DOMES AND DOUBLE TIO-SET DECK PLATE.
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTER - HOUSE	WATTS	LF909M1-QT-S, 2"	LEAD FREE, STRAINER, QUARTER TURN BALL VALVES, TEST COCKS, 175 PSI WORKING PRESSURE. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO APPROVED RECEPTOR. PROVIDE WITH FLOOD SENSOR AND INTERFACE WITH BAS.
RPZ-2	REDUCED PRESSURE BACKFLOW PREVENTER - IRRIGATION	WATTS	LF909M1-QT-S, 2"	LEAD FREE, STRAINER, QUARTER TURN BALL VALVES, TEST COCKS, 175 PSI WORKING PRESSURE. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO APPROVED RECEPTOR. PROVIDE WITH FLOOD SENSOR AND INTERFACE WITH BAS.
RPZ-3	REDUCED PRESSURE BACKFLOW PREVENTER - MECHANICAL	WATTS	LF909-QT-S, 1"	LEAD FREE, STRAINER, QUARTER TURN BALL VALVES, TEST COCKS, 175 PSI WORKING PRESSURE. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO APPROVED RECEPTOR. PROVIDE WITH FLOOD SENSOR AND INTERFACE WITH BAS.
SB	SUPPLY BOX	GUY GRAY	MIB1AB	METAL POWDER COATED, WHITE, LOW LEAD, 1/4 TURN VALVE, 1/2" SWEAT CONNECTION.
TMV	THERMOSTATIC MIXING VALVE	WATTS	LFUSG-B	+/-2°F UP TO 120°F, WITH BUILT-IN CHECK VALVES, LEAD-FREE BRASS BODY, AND COPPER THERMOSTAT. ASSE 1070.
TP	TRAP PRIMER (OR TRAP PRIMER)	WATTS (MIFAB)	LFTP300 (-DR) (MI-GARD)	BRASS PRIMER VALVE WITH REMOVABLE OPERATING PARTS, LEAD FREE, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER. PROVIDE DISTRIBUTION UNIT WHERE REQUIRED TO SERVE MULTIPLE TRAPS. (INLINE DRAIN TRAP SEAL, UV RESISTANT ABS FRAME, SILICON RUBBER SEALING FLAPPERS, ASSE 1072 CERTIFIED.)
WB	WASHING MACHINE OUTLET BOX	GUY GRAY	B200	GALVANIZED, CENTER DRAIN, 1/2" SWEAT CONNECTIONS, 2" THREADED DRAIN FITTING.
WCO	WALL CLEANOUT	ZURN	Z1470 (Z1469)	THREADED, COUNTERSUNK, BRONZE CLEANOUT PLUG. PROVIDE STAINLESS STEEL COVER FOR FINISHED AREAS.
WHA	WATER HAMMER ARRESTOR	ZURN	1260XL	LEAD-FREE, CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010. SIZE PER MANUFACTURER'S RECOMMENDATION.
YCO	YARD CLEANOUT	ZURN	Z1449 / Z1474	CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREWS.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	BRANCH SIZES (MIN.) CW	HW	WASTE	VENT	ELECTRICAL	DESCRIPTION	NOTES
BF-1	BOTTLE FILLER (ADA)	1/2"	---	1-1/2"	1-1/4"	120/1/60, 25W (PLUG IN)	ADA COMPLIANT BOTTLE FILLER, ELKAY, MODEL LBWDC00WHC, FILTERED, NON-REFRIGERATED, ASPEN WHITE FINISH, AUTOMATIC FILTER STATUS RESET, HANDS FREE, LAMINAR FLOW, VISUAL FILTER MONITOR.	A
LV-1	LAVATORY (KITCHEN, ADA)	1/2"	1/2"	1-1/2"	1-1/2"	---	ADA COMPLIANT LAVATORY, AMERICAN STANDARD, MODEL 0355.012 "LUCERNE", 20-1/2" x 18-1/4", WALL-HUNG, WHITE, VITREOUS CHINA, FRONT OVERFLOW, 4" CENTERS, CONCEALED ARM SUPPORT, D-SHAPED BOWL, SELF-DRAINING DECK AREA WITH COUNTOURED BACK AND SIDE SPLASH SHIELDS. FAUCET: AMERICAN STANDARD, MODEL 5500.145, 4" CENTERSET, 0.5 GPM, POLISHED CHROME, WITH WRIST BLADE HANDLES AND GRID STRAINER DRAIN. PROVIDE THERMOSTATIC MIXING VALVE (TMV) SET FOR 105°F.	B
LV-2	LAVATORY (GROUP RR, ADA)	1/2"	1/2"	1-1/2"	1-1/2"	---	ADA COMPLIANT LAVATORY: AMERICAN STANDARD, MODEL 0496.221 "OVALYN", 19-1/4" x 16-1/4" OVAL, WHITE, VITREOUS CHINA, UNDERMOUNT, FRONT OVERFLOW. FAUCET: SIGNATURE HARDWARE, MODEL SHK560136, 8" WIDESPREAD, AGED BRASS FINISH, GRID STRAINER DRAIN. PROVIDE WITH 0.5 GPM AERATOR. PROVIDE THERMOSTATIC MIXING VALVE (TMV) SET FOR 105°F.	A,C
LV-3	LAVATORY (POWDER BATH, ADA)	1/2"	1/2"	1-1/2"	1-1/2"	---	LAVATORY, SIGNATURE HARDWARE, MODEL SH424924 "BURLESON", PORCELAIN, WALL-MOUNT, RECTANGULAR, 33-1/4" x 19-7/8" x 4-3/4", REAR OVERFLOW, SINGLE HOLE, WHITE. FAUCET: SIGNATURE HARDWARE, MODEL SHWSCBE107AGBR, SINGLE-HOLE LEVER, AGED BRASS FINISH. PROVIDE WITH 0.5 GPM AERATOR. PROVIDE THERMOSTATIC MIXING VALVE (TMV) SET FOR 105°F.	A,C
LV-4	LAVATORY (HD SUITE)	1/2"	1/2"	1-1/2"	1-1/2"	---	LAVATORY: KOHLER, MODEL K-37626 "VERTICYL", 16-5/8" x 13-3/8" x 6-5/16", RETANGULAR, WHITE, VITREOUS CHINA, UNDERMOUNT, FRONT OVERFLOW. FAUCET: KOHLER, MODEL K-35953-4 "BUCKLEY", 8" WIDESPREAD, POLISHED CHROME FINISH, WITH POP-UP DRAIN AND TAILPIECE. PROVIDE THERMOSTATIC MIXING VALVE (TMV) SET FOR 105°F.	A
MS-1	MOP SINK	1/2"	1/2"	3"	2"	---	FIAT, MODEL MSB2424, MOLDED STONE MOP SERVICE BASIN, 24" x 24" x 10", PROVIDE NO. 830AA FAUCET WITH INTEGRAL VACUUM BREAKER, NO. 832-AA HOSE AND BRACKET, NO. 1453BB FLOOR STRAINER AND NO. 899-CC MOP HANGER. LOCATE MOP HANGER BRACKET NEAR MOP SINK. COORDINATE FINAL LOCATION WITH OWNER.	
SH-1	SHOWER (GROUP RR)	1/2"	1/2"	2"	1-1/2"	---	SHOWER STALL: TILE BY OTHERS SHOWER DRAIN: SCHLUTER KERDI LINE SOLID STYLE LINEAR DRAIN, MATTE WHITE FINISH. SHOWERHEAD: KOHLER, MODEL K-22170-2MB "PURIST", 2.5 GPM, THREE-FUNCTION, VIBRANT BRUSHED MODERNE BRASS FINISH. VALVE TRIM: KOHLER, MODEL K-T14490-3-2MB "PURIST", CROSS HANDLE, VIBRANT BRUSHED MODERNE BRASS FINISH.	A,D
SH-2	SHOWER (GROUP RR)	1/2"	1/2"	2"	1-1/2"	---	SHOWER STALL: TILE BY OTHERS SHOWER DRAIN: SCHLUTER KERDI LINE SOLID STYLE LINEAR DRAIN, MATTE WHITE FINISH. ADA HANDSHOWER KIT: KOHLER, MODEL K-22178-2MB "PURIST", 2.5 GPM HANDSHOWER, FOUR-FUNCTION, 28" SLIDEBAR, 60" HOSE, VIBRANT BRUSHED MODERNE BRASS FINISH. SUPPLY ELBOW: KOHLER, MODEL K-22172-2MB "PURIST", VIBRANT BRUSHED MODERNE BRASS FINISH. VALVE TRIM: KOHLER, MODEL K-T14490-3-2MB "PURIST", CROSS HANDLE, VIBRANT BRUSHED MODERNE BRASS FINISH.	A,D
SH-3	SHOWER (HD SUITE)	1/2"	1/2"	2"	1-1/2"	---	SHOWER STALL: TILE BY OTHERS SHOWER DRAIN: SCHLUTER KERDI LINE SOLID STYLE LINEAR DRAIN, MATTE WHITE FINISH. SHOWERHEAD: KOHLER, MODEL K-22170-CP "PURIST", 2.5 GPM, THREE-FUNCTION, POLISHED CHROME FINISH. VALVE TRIM: KOHLER, MODEL K-T14490-3-CP "PURIST", CROSS HANDLE, POLISHED CHROME FINISH.	A,D
SK-1	SINK - SINGLE BOWL (HD SUITE)	1/2"	1/2"	2"	1-1/2"	120/1/60, 8.1A (SWITCHED PLUG IN)	SINK: ELKAY, MODEL ELUH241610, UNDERMOUNT, 18 GAUGE 304 STAINLESS STEEL, 26-1/2" x 18-1/2" x 10", SINGLE BOWL. FAUCET: KOHLER, MODEL K-30469-CP "RIVAL", PULL-DOWN KITCHEN FAUCET, SINGLE-HOLE (LESS ESCUTCHEON PLATE), HIGH ARC, 1.5 GPM, TWO-FUNCTION SPRAY, POLISHED CHROME FINISH. DISPOSAL: INSINKERATOR EVOLUTION ESSENTIAL, RESIDENTIAL DISPOSAL, 3/4 HP MOTOR WITH POWER CORD, 120/1/60, 8.1A, SWITCHED PLUG IN.	A,E
SK-2	SINK - SINGLE BOWL (WEEKEND KITCHEN, ADA)	1/2"	1/2"	2"	1-1/2"	120/1/60, 8.1A (SWITCHED PLUG IN)	SINK: ELKAY, MODEL ELUH241610, UNDERMOUNT, 18 GAUGE 304 STAINLESS STEEL, 26-1/2" x 18-1/2" x 10", SINGLE BOWL. FAUCET: SIGNATURE HARDWARE, MODEL SHXCFN107AGBR, PULL-DOWN KITCHEN FAUCET, SINGLE-HOLE (LESS ESCUTCHEON PLATE), HIGH ARC, 1.8 GPM, TWO-FUNCTION SPRAY, AGED BRASS FINISH. DISPOSAL: INSINKERATOR EVOLUTION ESSENTIAL, RESIDENTIAL DISPOSAL, 3/4 HP MOTOR WITH POWER CORD, 120/1/60, 8.1A, SWITCHED PLUG IN.	A,B
WC-1	WATER CLOSET (STANDARD)	1/2"	---	4"	2"	---	TOILET: AMERICAN STANDARD, MODEL 2462.016 "CADET", WHITE, VITREOUS CHINA, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, PRESSURE-ASSISTED SIPHON JET, 1.6 GPF, 15" RIM HEIGHT, 12" ROUGH-IN. SEAT: AMERICAN STANDARD, MODEL 5901.100SS, OPEN FRONT LESS COVER, SELF-SUSTAINING HINGES.	
WC-2	WATER CLOSET (ADA)	1/2"	---	4"	2"	---	ADA COMPLIANT TOILET: AMERICAN STANDARD, MODEL 2467.016 "CADET", WHITE, VITREOUS CHINA, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, PRESSURE-ASSISTED SIPHON JET, 1.6 GPF, 16-1/2" RIM HEIGHT FOR ADA COMPLIANCE, 12" ROUGH-IN. SEAT: AMERICAN STANDARD, MODEL 5901.100SS, OPEN FRONT LESS COVER, SELF-SUSTAINING HINGES.	
WC-3	WATER CLOSET (HD SUITE)	1/2"	---	4"	2"	---	TOILET: AMERICAN STANDARD, MODEL 270CA.001 "CADET 3", WHITE, VITREOUS CHINA, TANK TYPE, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, 1.6 GPF, 15" RIM HEIGHT, 12" ROUGH-IN. SEAT: CENTOCO, MODEL 800TM, CLOSED FRONT WITH COVER.	

GENERAL NOTES (ALL FIXTURES AS APPLICABLE):

1. FIXTURE AND HARDWARE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, UNLESS NOTED OTHERWISE.
2. ADA TOILETS & URINALS: MOUNT CONTROLS ON ACCESSIBLE SIDE TO COMPLY WITH ADA REQUIREMENTS. COORDINATE WITH FIXTURE SUPPLIER.
3. WALL MOUNTED FIXTURES: PROVIDE AND INSTALL APPROPRIATE CARRIER FOR FIXTURE TYPE.
4. REFER TO ARCHITECTURAL PLANS FOR LEFT/RIGHT HAND ORIENTATION OF FIXTURES WHERE APPLICABLE.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. NO SUBSTITUTIONS ALLOWED FOR FINISH PLUMBING FIXTURES.
B. PROVIDE INSULATION KIT (TRUEBRO E-Z SERIES "LAV GUARD 2" OR EQUAL) WITH WHITE FINISH WHERE PIPING IS EXPOSED.
C. PROVIDE DECORATIVE TRAP COVER (LACAVA MODEL RA088-BG) WITH BRUSHED GOLD FINISH. PROVIDE INSULATION KIT (TRUEBRO E-Z SERIES "LAV GUARD 2") WITH WHITE FINISH ON SUPPLIES ONLY. INSTALL SUPPLIES AS HIGH AS POSSIBLE TO LIMIT VISIBILITY.
D. PROVIDE WITH ASSE 1016 PRESSURE BALANCING VALVE WITH SCREWDRIVER STOPS.
E. PROVIDE MATERIALS AND MAKE DRAIN AND SUPPLY CONNECTIONS TO DISHWASHER . PROVIDE INDEPENDENT SUPPLY STOP VALVE FOR DISHWASHER.

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PLUMBING SCHEDULES

Sheet No.
P1.00

Project Name
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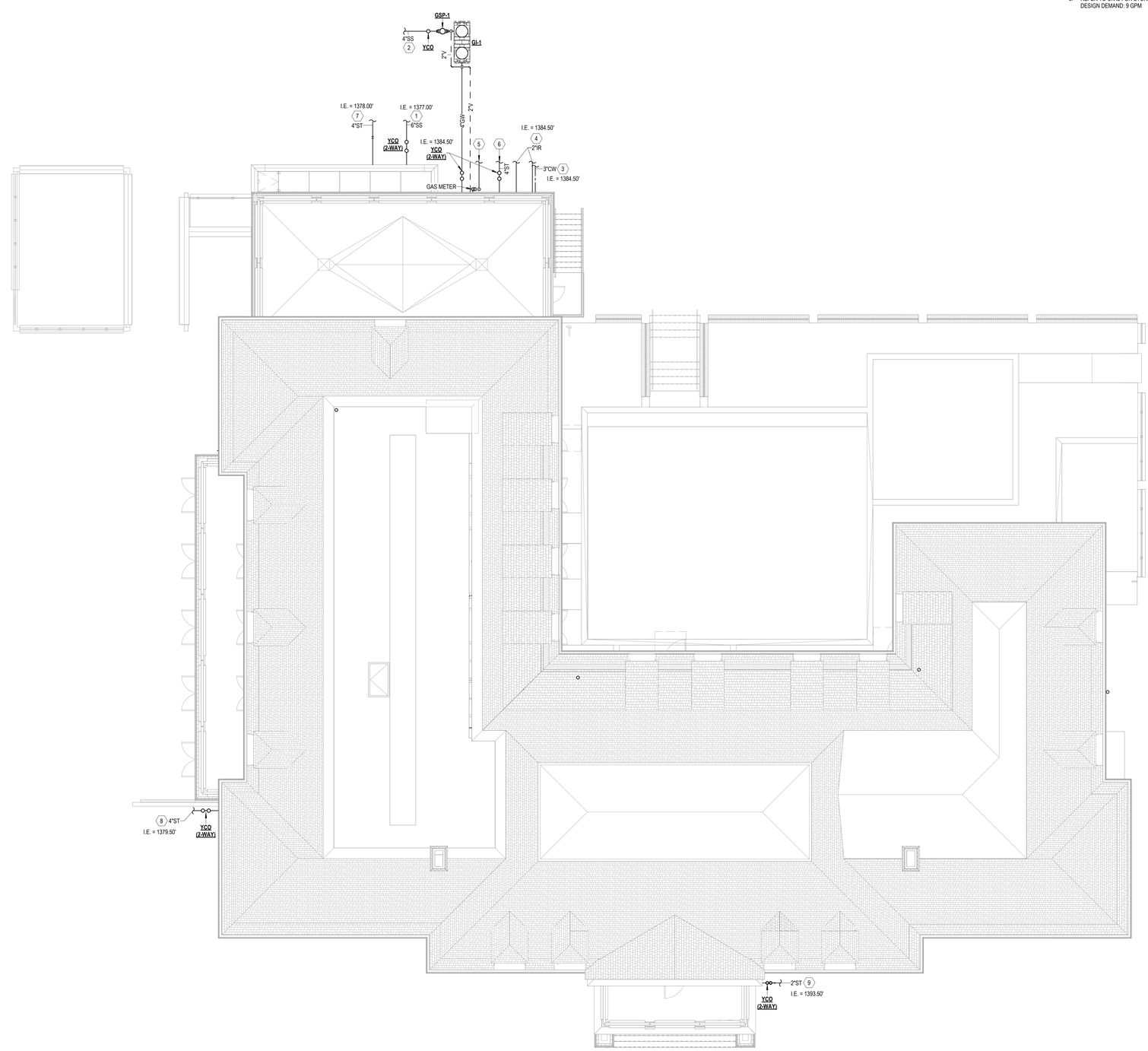

1 PLUMBING PLAN - SITE
1/8" = 1'-0"

INFORMATION ON THIS SHEET IS FOR REFERENCE ONLY. REFER TO CIVIL FOR EXACT LOCATIONS OF ALL SITE UTILITIES. NOTED ELEVATIONS ARE APPROXIMATE. COORDINATE ALL WITH SITE CONTRACTOR.

PLAN NOTES:

1. REFER TO CIVIL FOR CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 235 DFU
2. REFER TO CIVIL FOR CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 35 DFU
3. INCOMING DOMESTIC WATER SERVICE. REFER TO CIVIL FOR CONTINUATION. ANTICIPATED PEAK DEMAND: 110 GPM
4. INCOMING AND OUTGOING IRRIGATION WATER. REFER TO CIVIL FOR CONTINUATION.
5. GAS SERVICE AND METER PER GAS UTILITY COMPANY. REGULATE TO 7" W.C. PIPING DOWNSTREAM SIZED FOR MAXIMUM 0.5" W.C. PRESSURE DROP PER 2018 AFGC TABLE 402.4(2). (3205 MBH @ 7.0")
6. REFER TO CIVIL FOR STORM LINE CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 55 GPM
7. REFER TO CIVIL FOR STORM LINE CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 6 GPM
8. REFER TO CIVIL FOR STORM LINE CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 160 GPM
9. REFER TO CIVIL FOR STORM LINE CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 9 GPM

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PLUMBING PLAN - SITE

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P2.00

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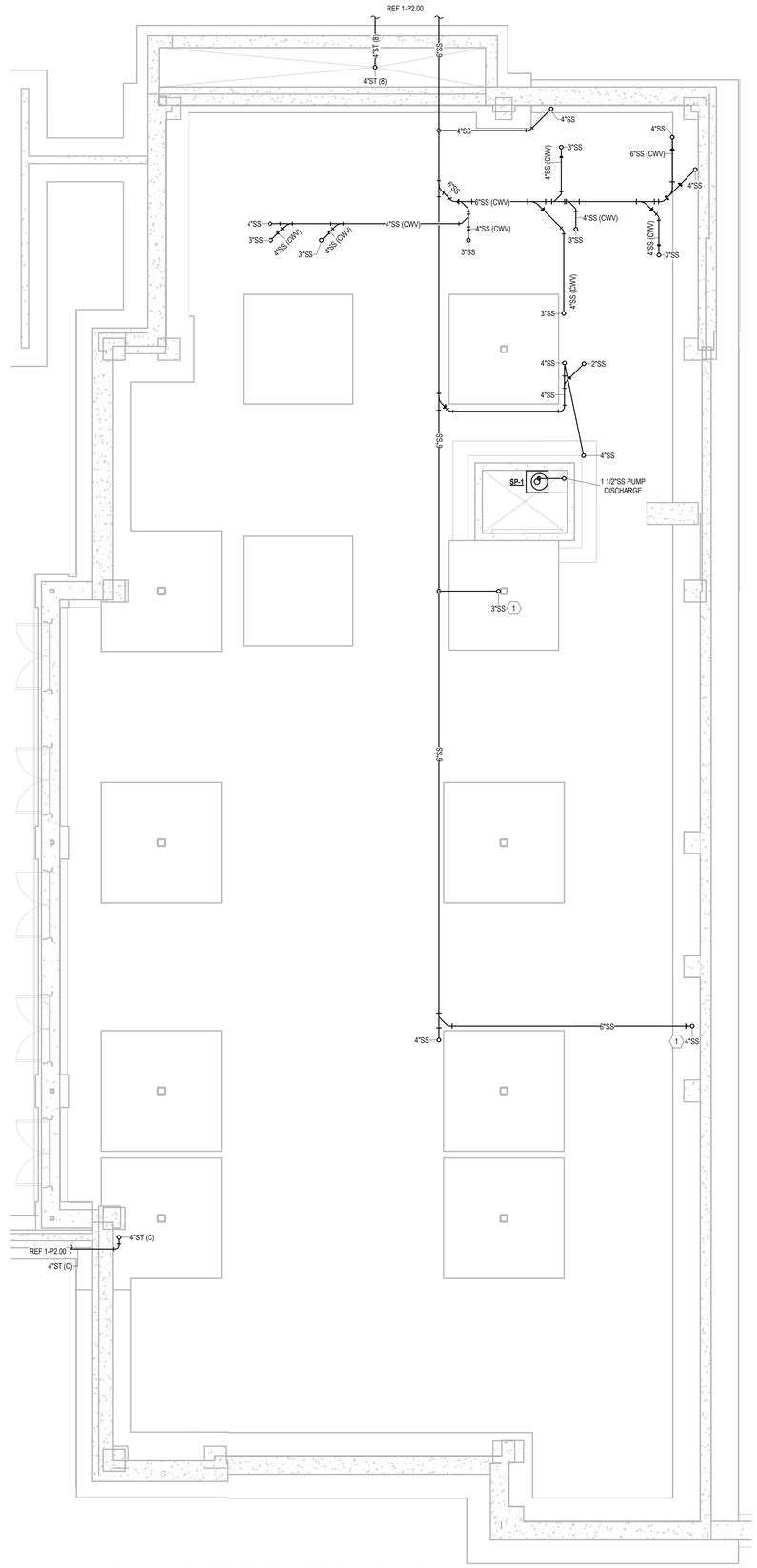
PLAN NOTES:

1. WASTE STACK CONNECTION TO HORIZONTAL BRANCH SHALL BE AT A POINT LOCATED NOT LESS THEN 40" DOWNSTREAM FROM THE STACK PER APC 704.3



1 DWV PLAN - LOWER LEVEL - BELOW GRADE

3/16" = 1'-0"

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PLUMBING PLAN - BELOW LOWER LEVEL

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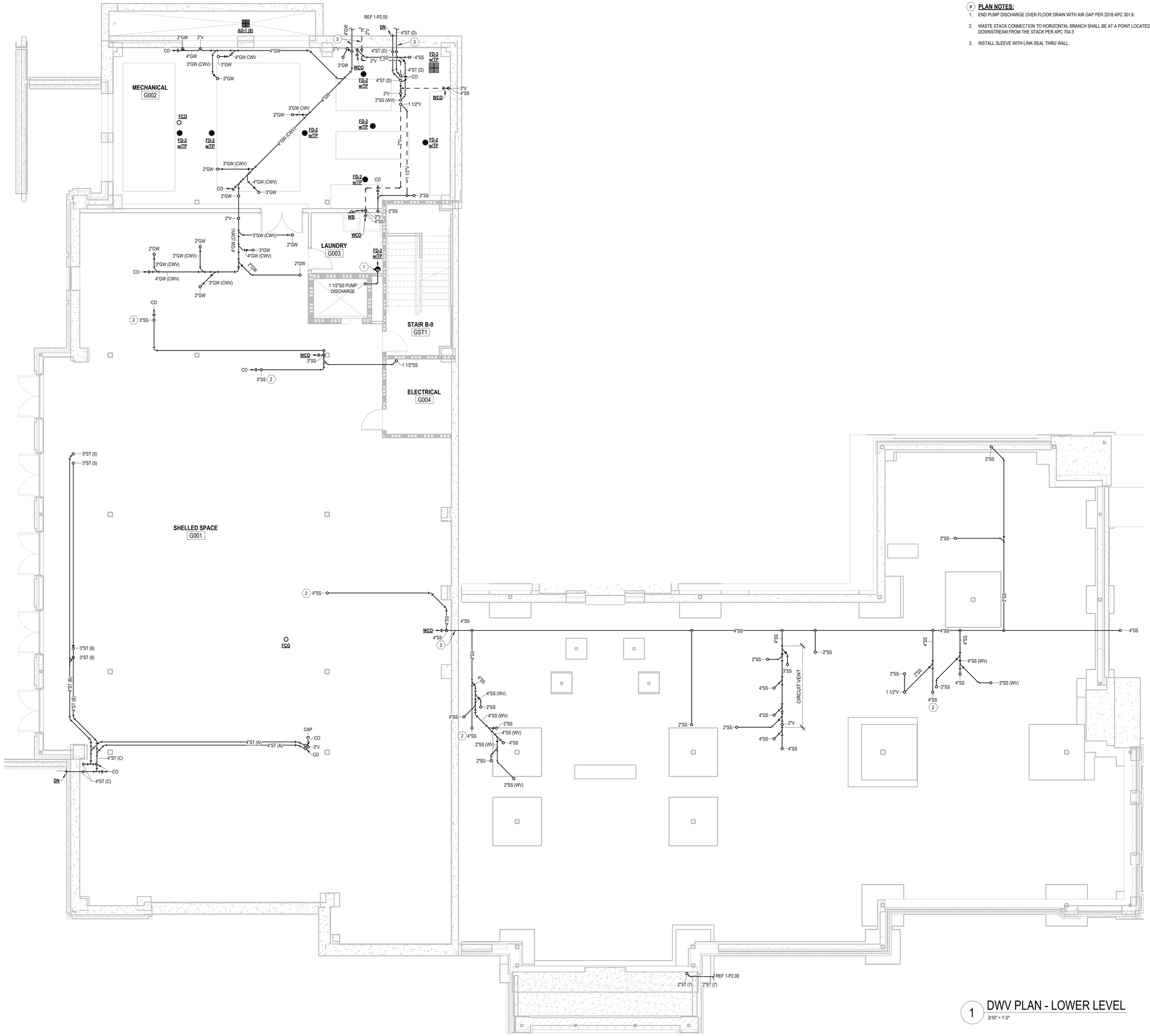

PLAN NOTES:

1. END PUMP DISCHARGE OVER FLOOR DRAIN WITH AIR GAP PER 2018 APC 301.6.
2. WASTE STACK CONNECTION TO HORIZONTAL BRANCH SHALL BE AT A POINT LOCATED NOT LESS THEN 40" DOWNSTREAM FROM THE STACK PER APC 704.3
3. INSTALL SLEEVE WITH LINK-SEAL THRU WALL.

1 DWV PLAN - LOWER LEVEL
3/16" = 1'-0"

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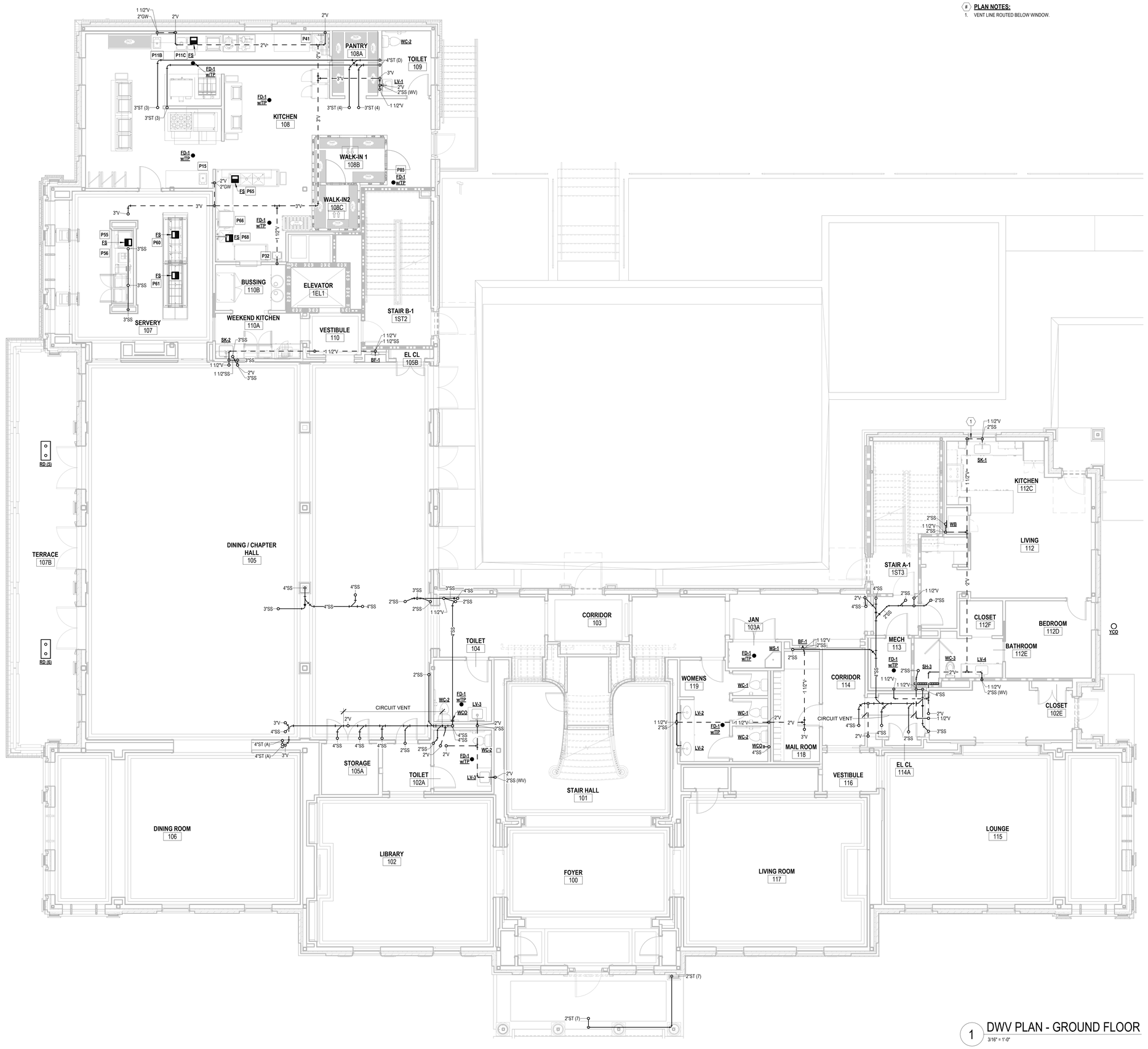
PLUMBING PLAN - DWV LOWER LEVEL

Sheet No.
P2.20

Project Name
Autodesk Docs://Alpha Phi/24103 - Alpha Phi - MEP_R24.rvt
12/16/2025 11:43:39 AM

PLAN NOTES:

1. VENT LINE ROUTED BELOW WINDOW.



1 DWV PLAN - GROUND FLOOR
3/16" = 1'-0"

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Date 12.18.2025

Title
PLUMBING PLAN - DWV GROUND FLOOR

Sheet No.
P2.21

Project Name
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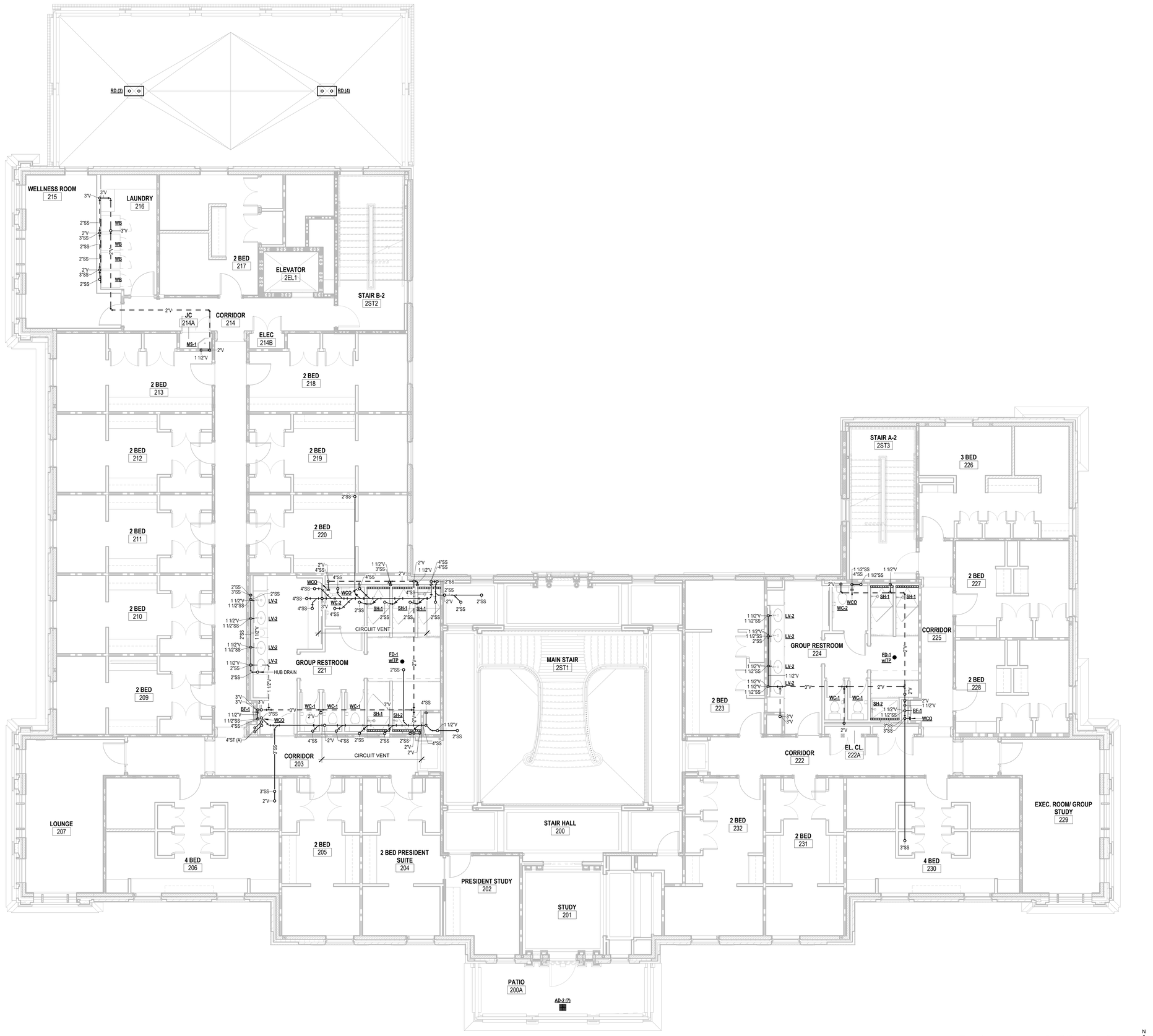

1 DWV PLAN - SECOND FLOOR
3/16" = 1'-0"

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Job No.
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Date
12.18.2025
Title
PLUMBING PLAN - DWV SECOND FLOOR
Sheet No.
P2.22

Project Name
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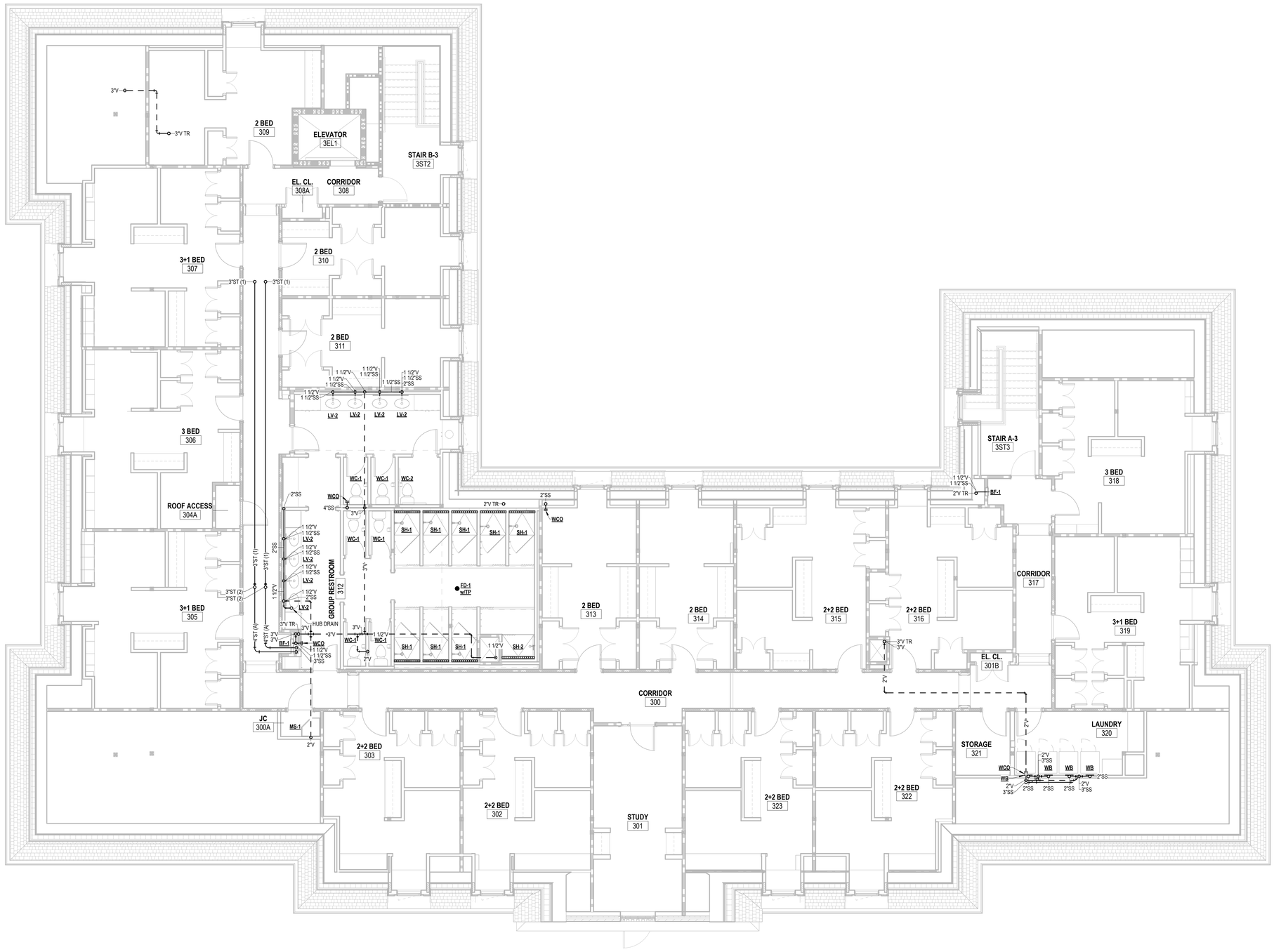

1 DWV PLAN - THIRD FLOOR
3/16" = 1'-0"

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Title
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Sheet No.
P2.23

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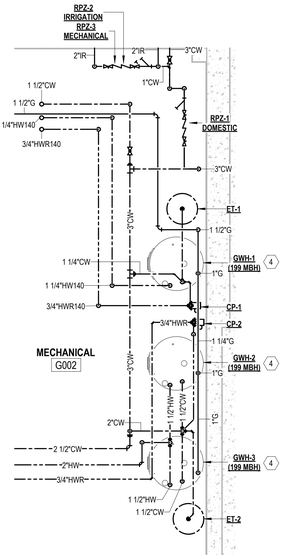
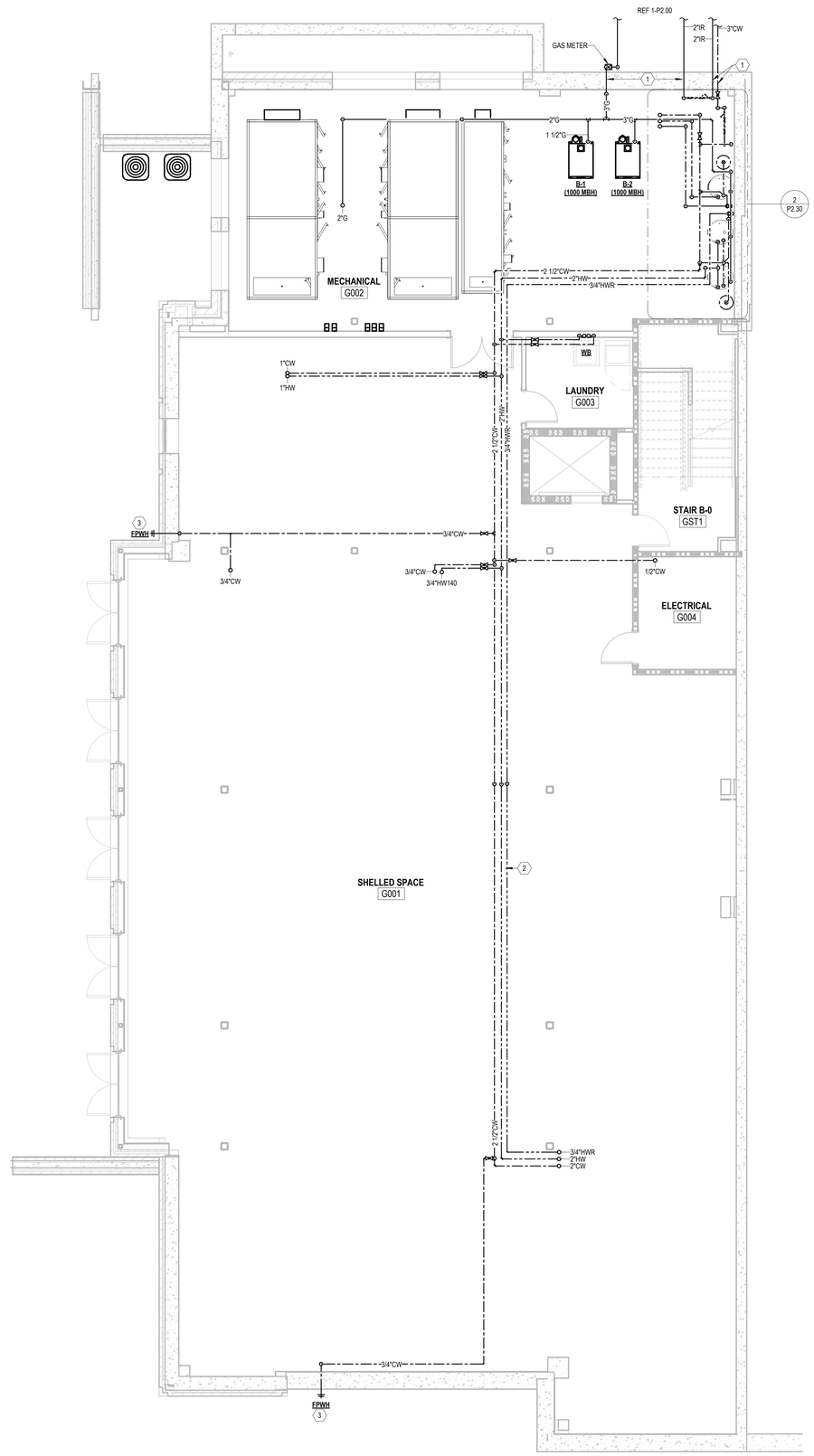


2 ENLARGED SUPPLY PLAN

3/8" = 1'-0"



1 SUPPLY PLAN - LOWER LEVEL

3/16" = 1'-0"

GENERAL NOTES:

1. DO NOT ROUTE SUPPLY LINES OVER ELECTRICAL EQUIPMENT.
2. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING.

(#) PLAN NOTES:

1. INSTALL SLEEVE WITH LINK-SEAL THRU WALL.
2. ROUTE ALL PIPING IN SHELLED SPACE G001 AS HIGH AS POSSIBLE.
3. INSTALL AT 2'-0" AFG. COORDINATE WITH FINISHED GRADE ELEVATION.
4. ROUTE COMBUSTION AIR AND VENT PIPING TO EXTERIOR WALL PER MANUFACTURER'S INSTRUCTIONS.

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Job No. UAFAPH-21.01

Date 12.18.2025

Title

PLUMBING PLAN - SUPPLY LOWER LEVEL

Sheet No.

P2.30

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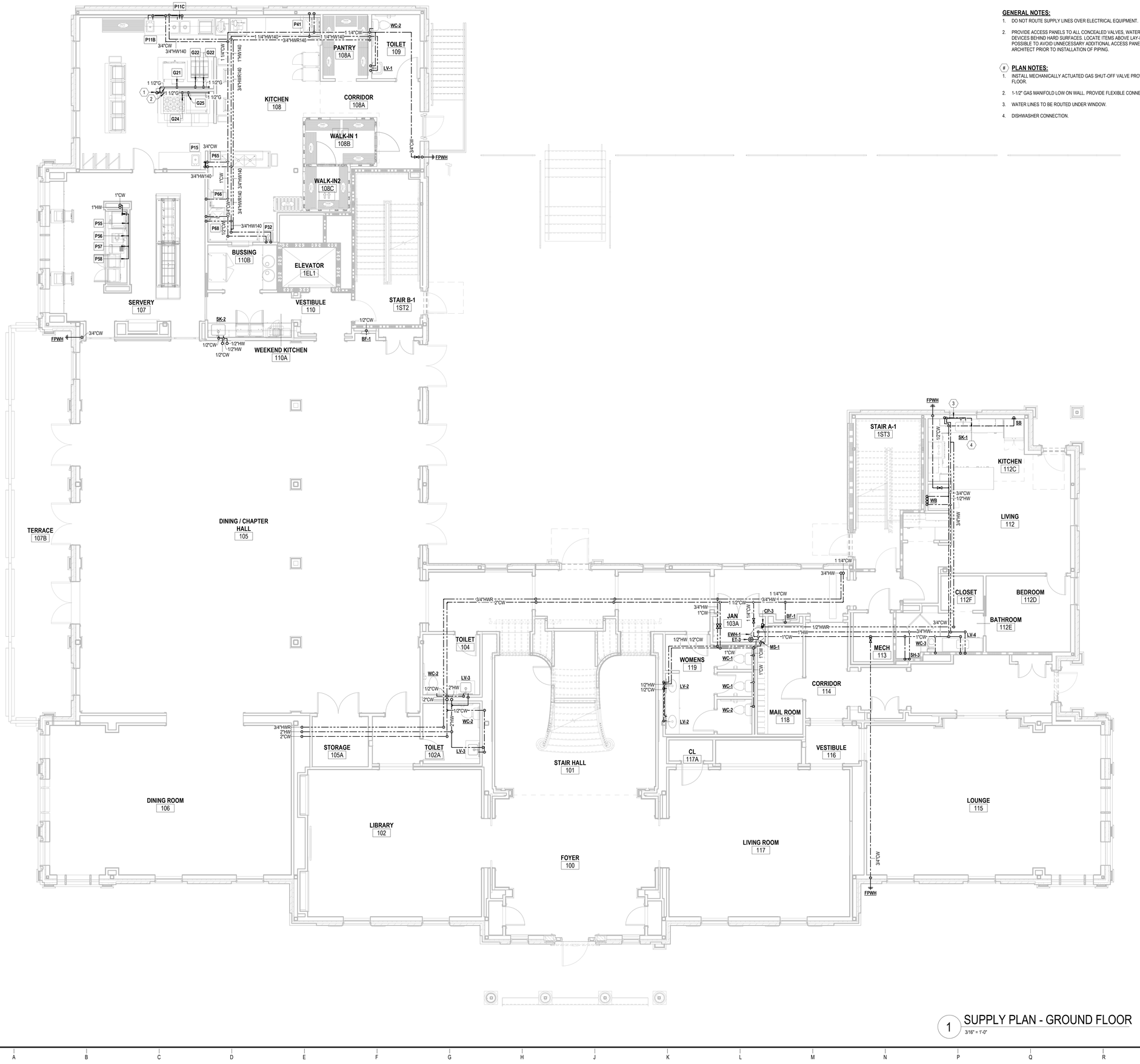

1 SUPPLY PLAN - GROUND FLOOR
3/16" = 1'-0"

N

GENERAL NOTES:

1. DO NOT ROUTE SUPPLY LINES OVER ELECTRICAL EQUIPMENT.
2. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING.

(#) PLAN NOTES:

1. INSTALL MECHANICALLY ACTUATED GAS SHUT-OFF VALVE PROVIDED BY HOOD MANUFACTURER ABOVE FLOOR.
2. 1-1/2" GAS MANIFOLD LOW ON WALL. PROVIDE FLEXIBLE CONNECTIONS TO EQUIPMENT.
3. WATER LINES TO BE ROUTED UNDER WINDOW.
4. DISHWASHER CONNECTION.

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
PLUMBING PLAN - SUPPLY GROUND FLOOR

Sheet No.
P2.31

Project Name
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GENERAL NOTES:

1. DO NOT ROUTE SUPPLY LINES OVER ELECTRICAL EQUIPMENT.
2. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING.



1 SUPPLY PLAN - SECOND FLOOR
3/16" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title
PLUMBING PLAN - SUPPLY SECOND FLOOR

Sheet No.
P2.32

Project Norns
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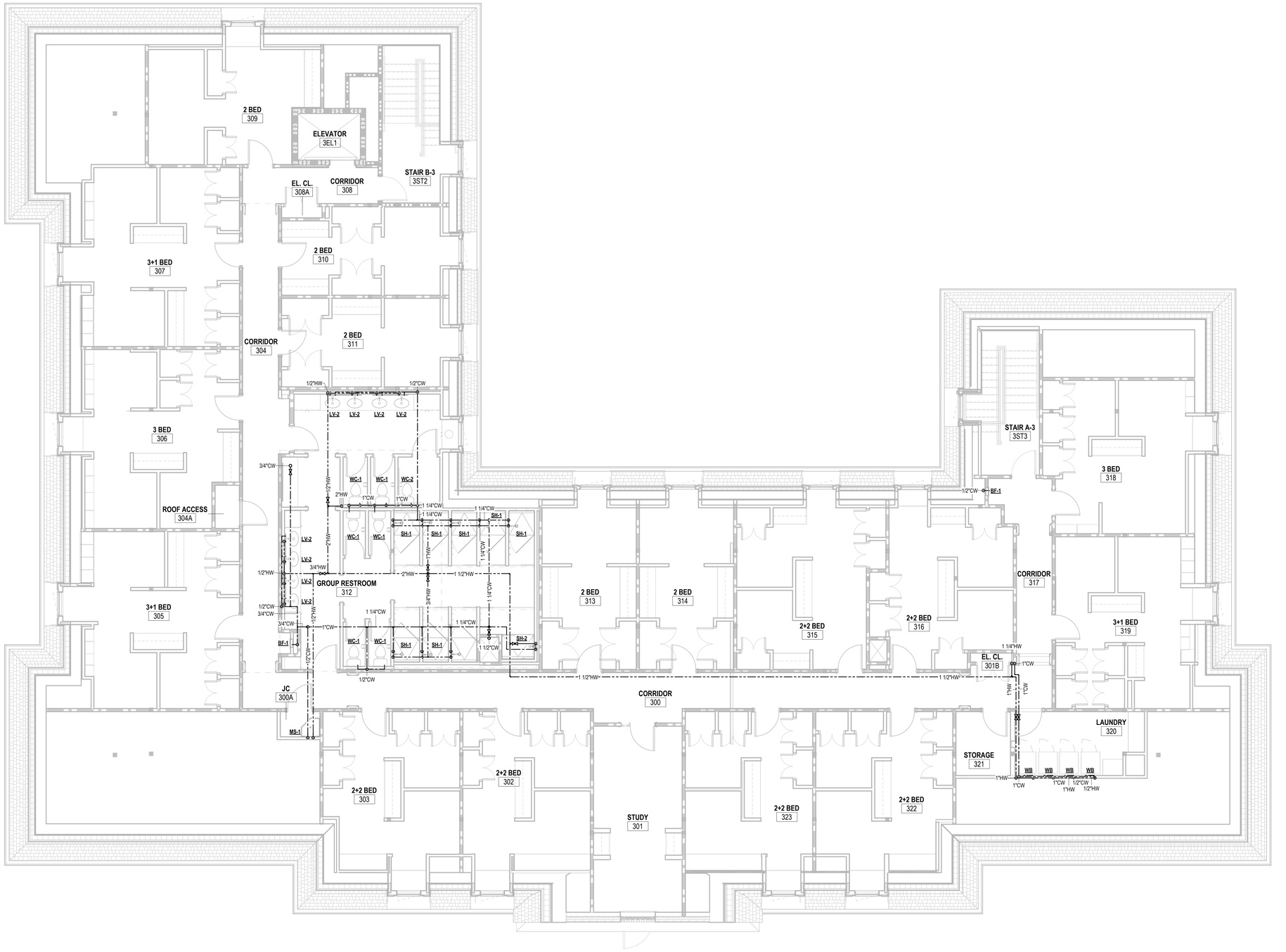
GENERAL NOTES:

1. DO NOT ROUTE SUPPLY LINES OVER ELECTRICAL EQUIPMENT.
2. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT PRIOR TO INSTALLATION OF PIPING.



1 SUPPLY PLAN - THIRD FLOOR
3/16" = 1'-0"

N

Project Name
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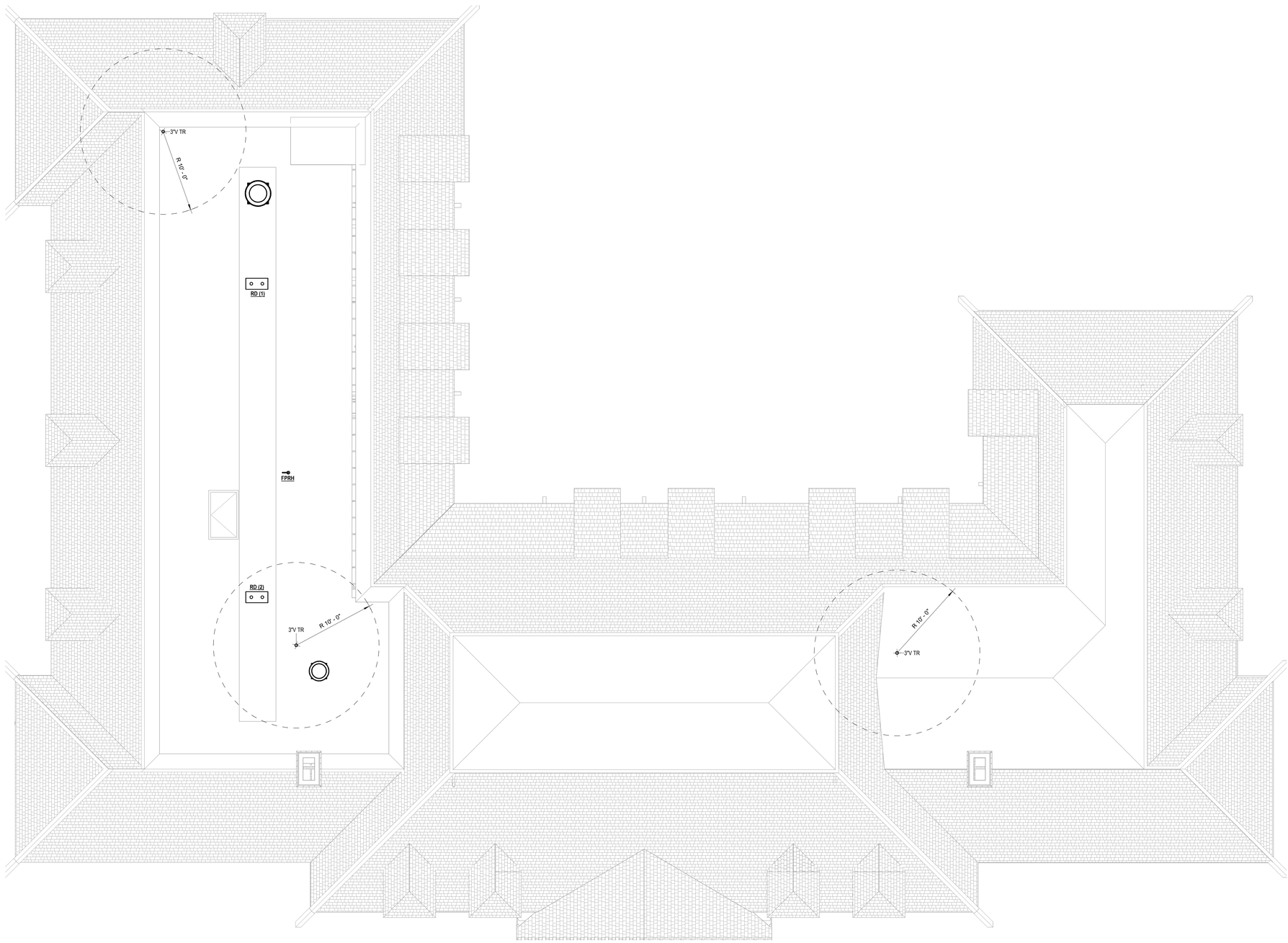
Date 12.18.2025

Title
PLUMBING PLAN - SUPPLY THIRD FLOOR

Sheet No.
P2.33



1 PLUMBING PLAN - ROOF
3/16" = 1'-0"

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Job No.
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Date
12.18.2025
Title

PLUMBING PLAN - ROOF

Sheet No.

P2.40

Project Name
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3 DWV ISOMETRIC - NORTH SECOND & THIRD FLOOR

2 DWV ISOMETRIC - NORTH GROUND FLOOR

1 DWV ISOMETRIC - NORTH LOWER LEVEL

Project Name
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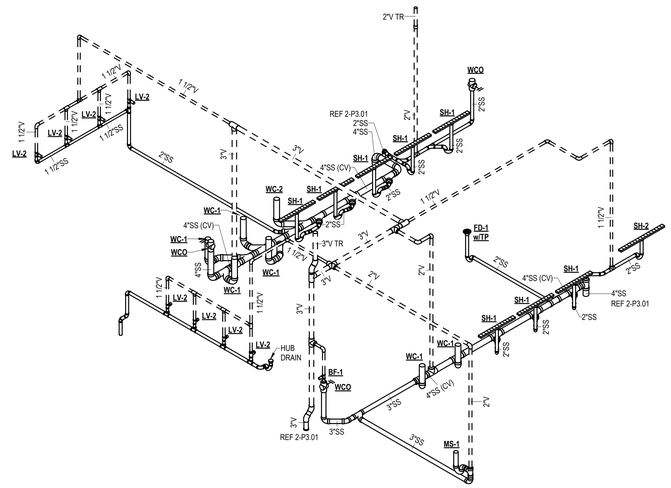
Job No. UAFAPH-21.01

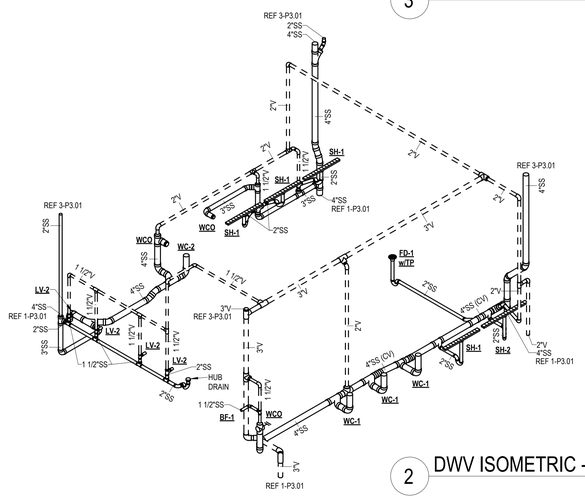
Date 12.18.2025

Title PLUMBING ISOMETRICS - DWV NORTH

Sheet No. **P3.00**



3 DWV ISOMETRIC - SOUTHWEST THIRD FLOOR



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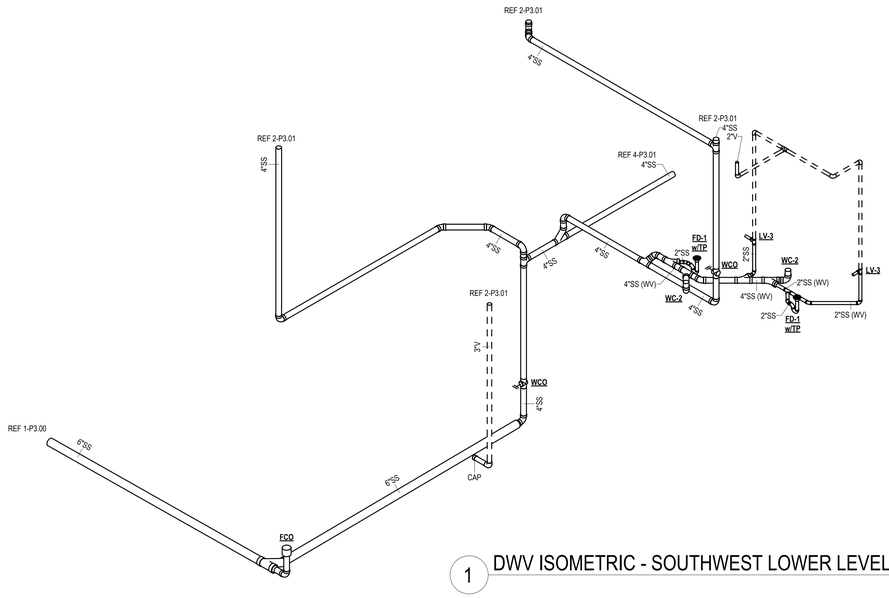
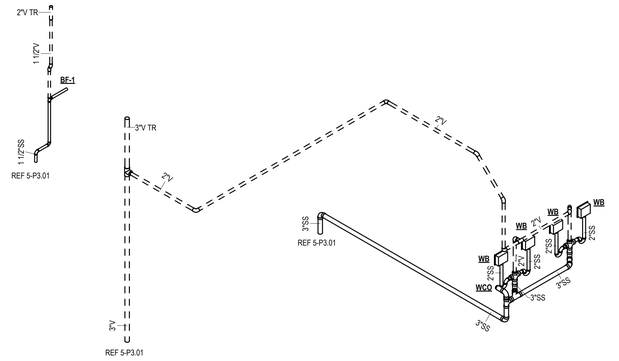
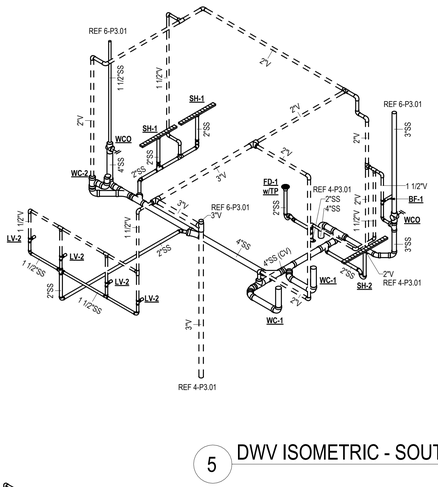


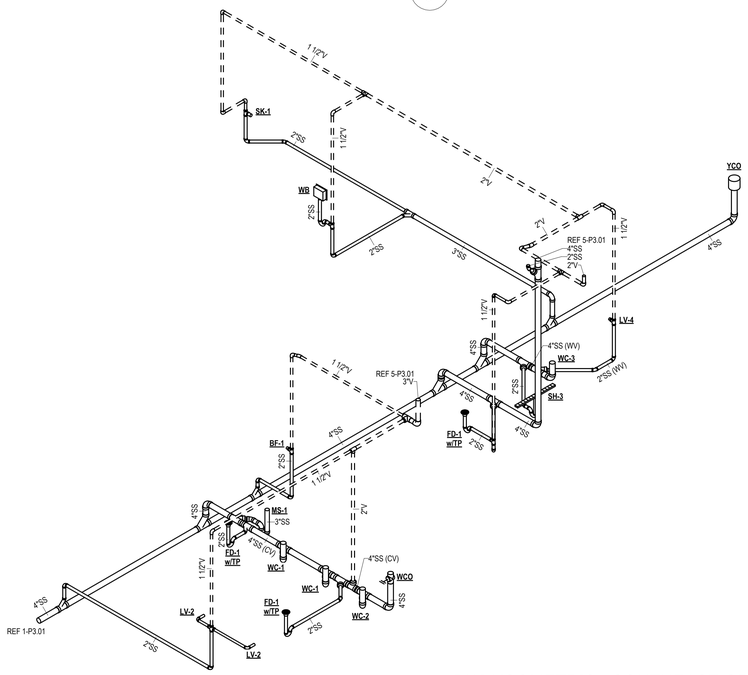
1 DWV ISOMETRIC - SOUTHWEST LOWER LEVEL & GROUND FLOOR



6 DWV ISOMETRIC - SOUTHEAST THIRD FLOOR



5 DWV ISOMETRIC - SOUTHEAST SECOND FLOOR



4 DWV ISOMETRIC - SOUTHEAST GROUND FLOOR

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Job No. UAFAPH-21.01

Date 12.18.2025

Title PLUMBING ISOMETRICS - DWV SOUTH

Sheet No. **P3.01**

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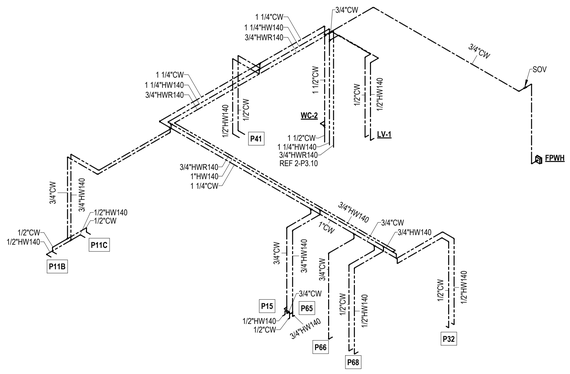
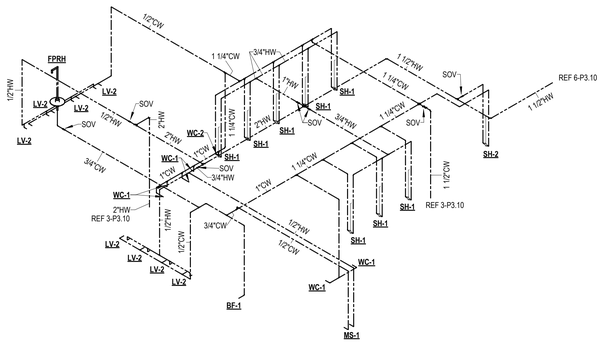


4 WATER ISOMETRIC - 108 KITCHEN



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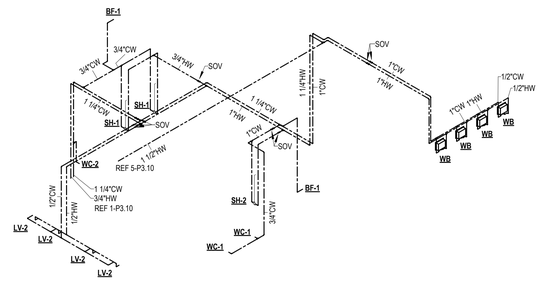
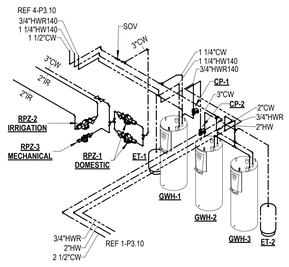


6 WATER ISOMETRIC - 224 RESTROOM / 320 LAUNDRY



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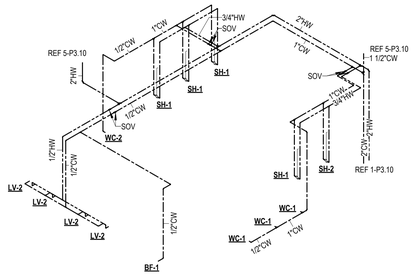

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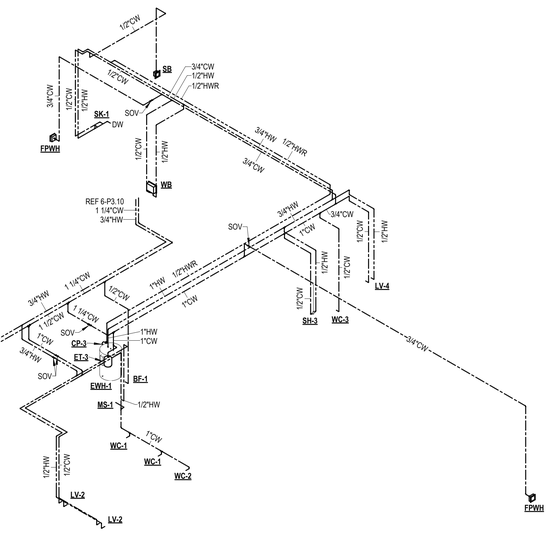

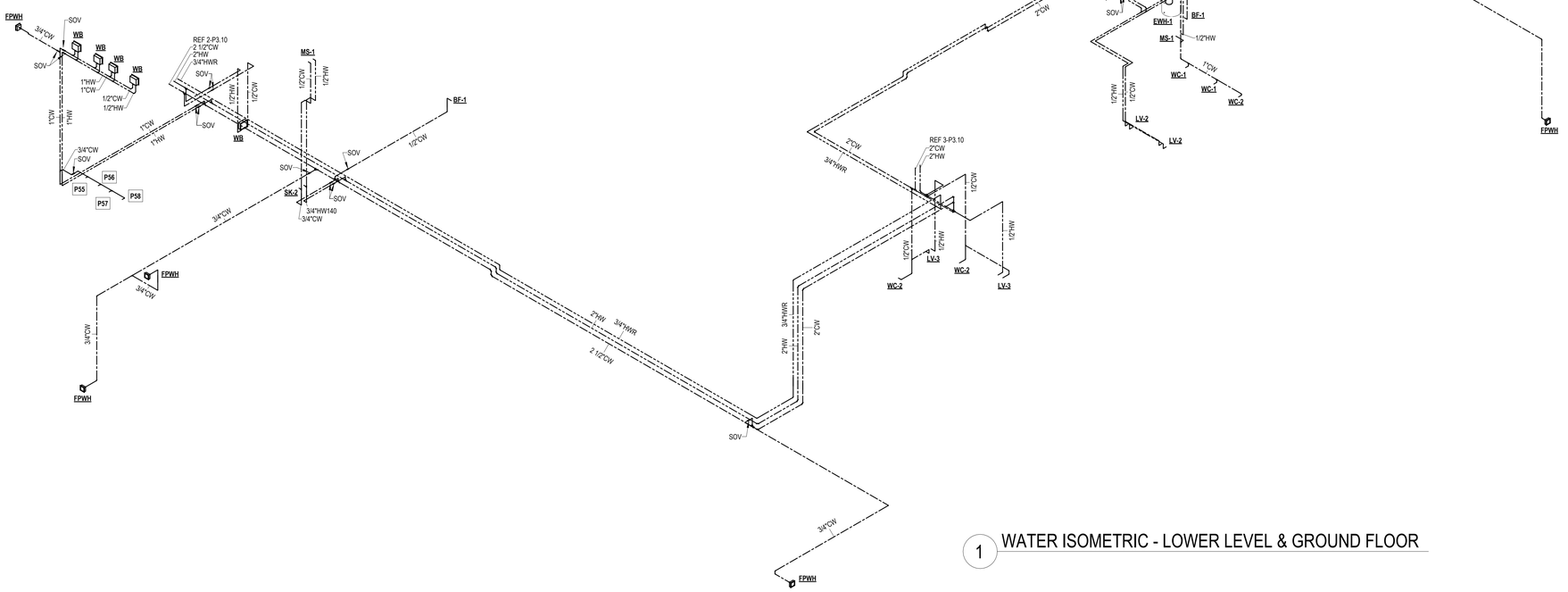

1 WATER ISOMETRIC - LOWER LEVEL & GROUND FLOOR

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Date 12.18.2025

Title PLUMBING ISOMETRICS - WATER

Sheet No.

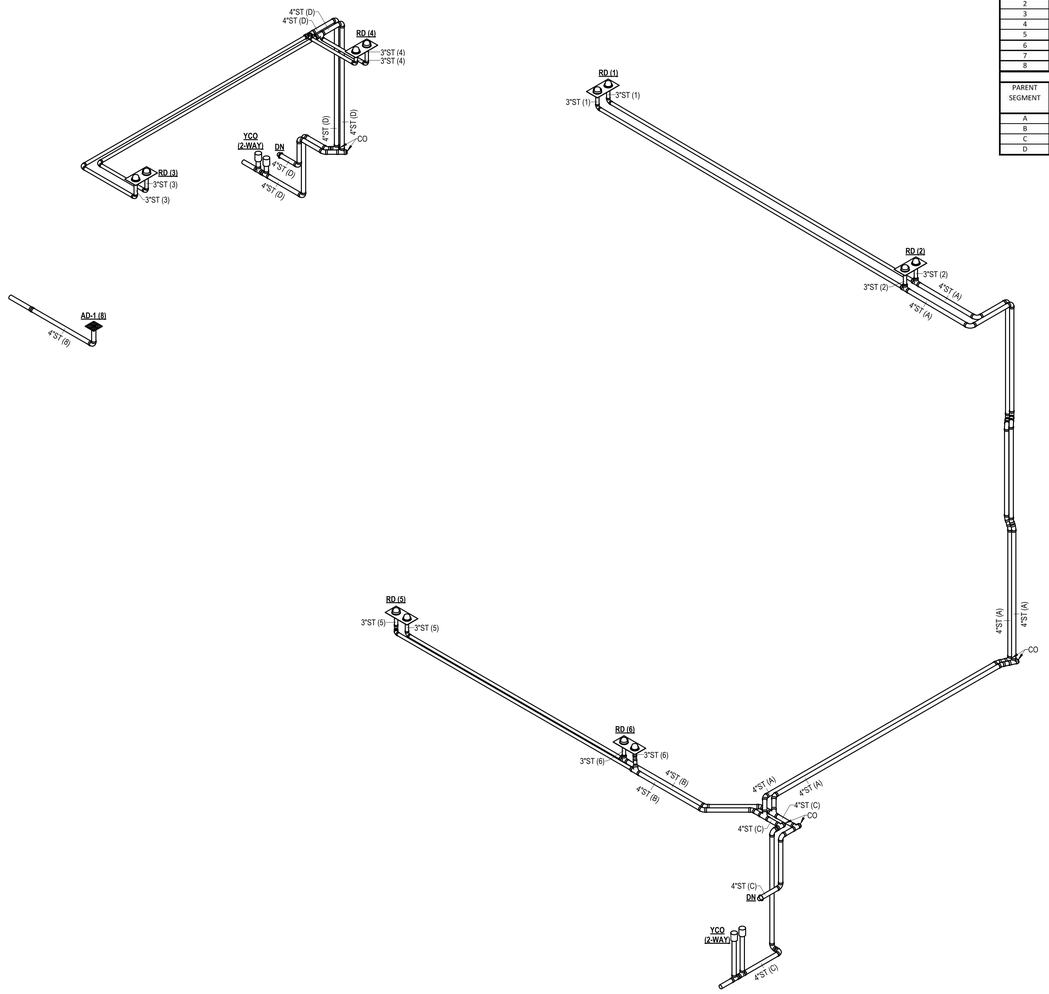
P3.10

Rate (in./hr) 3.75

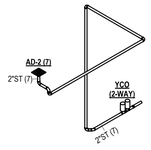
STORM DRAINAGE CALCULATIONS

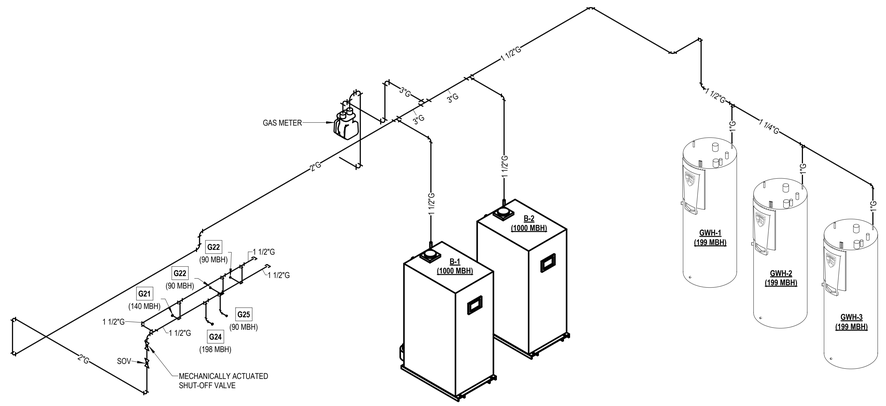
DEMAND					VERTICAL DRAIN PIPE			HORIZONTAL DRAIN PIPE				ROOF AREA
ROOF AREA	SQ. FT.	RAINFALL (in./hr)	CFH	GPM	MINIMUM SIZE (in.)	MINIMUM CAPACITY (GPM)	PROPOSED SIZE (in.)	MIN. SLOPE (in. / ft.)	MINIMUM SIZE (in.)	MINIMUM CAPACITY (GPM)	PROPOSED SIZE (in.)	
1	1085	3.75	339.1	42	3	87	**3**	1/8	3	55	**3**	1
2	1350	3.75	421.9	53	3	87	**3**	1/8	3	55	**3**	2
3	554	3.75	173.1	22	2	34	**3**	1/8	2	22	**3**	3
4	864	3.75	270.0	34	2	34	**3**	1/8	3	55	**3**	4
5	832	3.75	260.0	32	2	34	**3**	1/8	3	55	**3**	5
6	832	3.75	260.0	32	2	34	**3**	1/8	3	55	**3**	6
7	220	3.75	68.8	9	2	34	**3**	1/8	2	22	**3**	7
8	150	3.75	46.9	6	2	34	**4**	1/8	2	22	**4**	8

COMBINED AREAS												
PARENT SEGMENT	CHILD SEGMENT 1	CHILD SEGMENT 2	TOTAL SQ. FT.	TOTAL GPM	MINIMUM SIZE (in.)	MINIMUM CAPACITY (GPM)	PROPOSED SIZE (in.)	MIN. SLOPE (in. / ft.)	MINIMUM SIZE (in.)	MINIMUM CAPACITY (GPM)	PROPOSED SIZE (in.)	PARENT SEGMENT
A	1	2	2435	95	4	180	**4**	1/8	4	115	**4**	A
B	5	6	1664	65	3	87	**4**	1/8	4	115	**4**	B
C	A	B	4099	160	4	180	**4**	1/4	4	163	**4**	C
D	3	4	1418	55	3	87	**4**	1/8	4	115	**4**	D



2 STORM ISOMETRIC





1 GAS ISOMETRIC

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Title PLUMBING ISOMETRICS - STORM & GAS

Sheet No. **P3.20**

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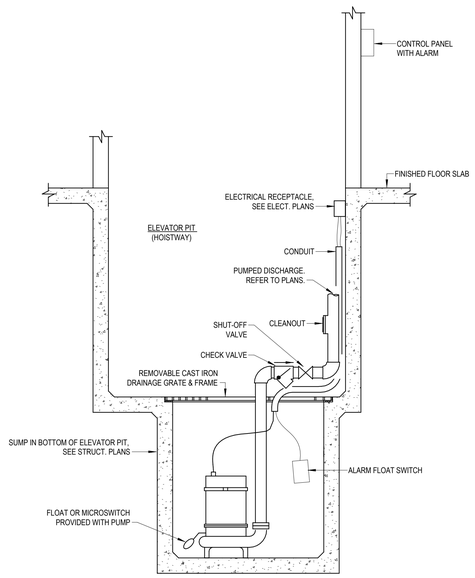
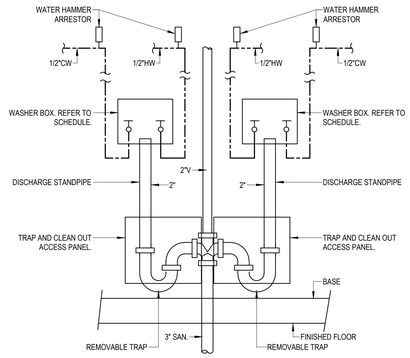


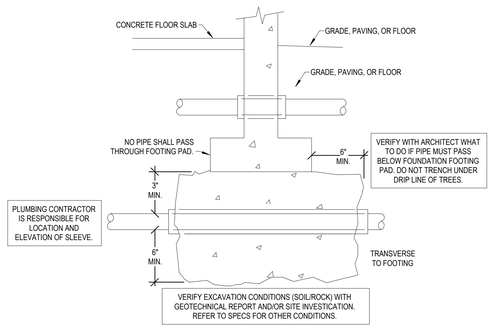
6 ELEVATOR SUMP PUMP

SCALE: NTS



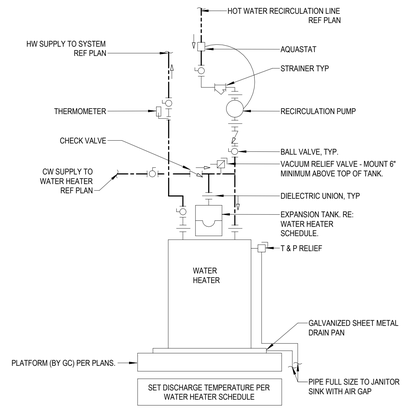
5 WASHER BOX - DOUBLE

SCALE: NTS



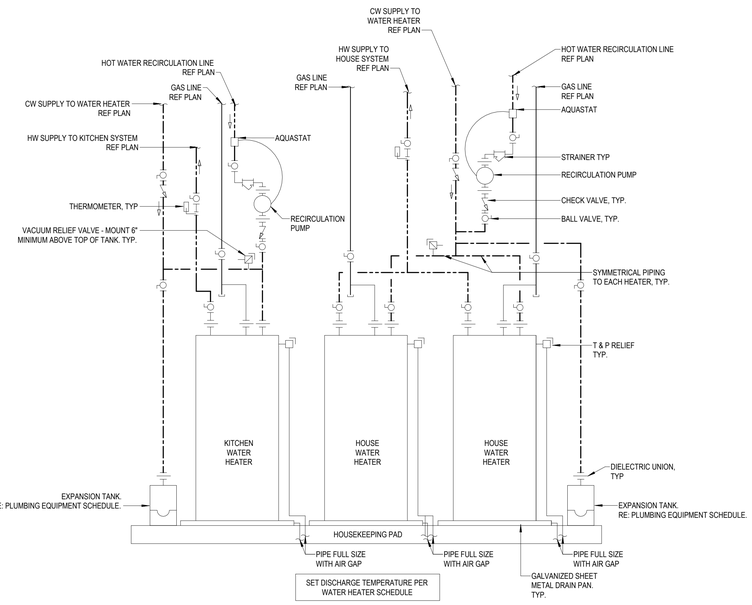
4 PIPE AND TRENCH LOCATION

SCALE: NTS



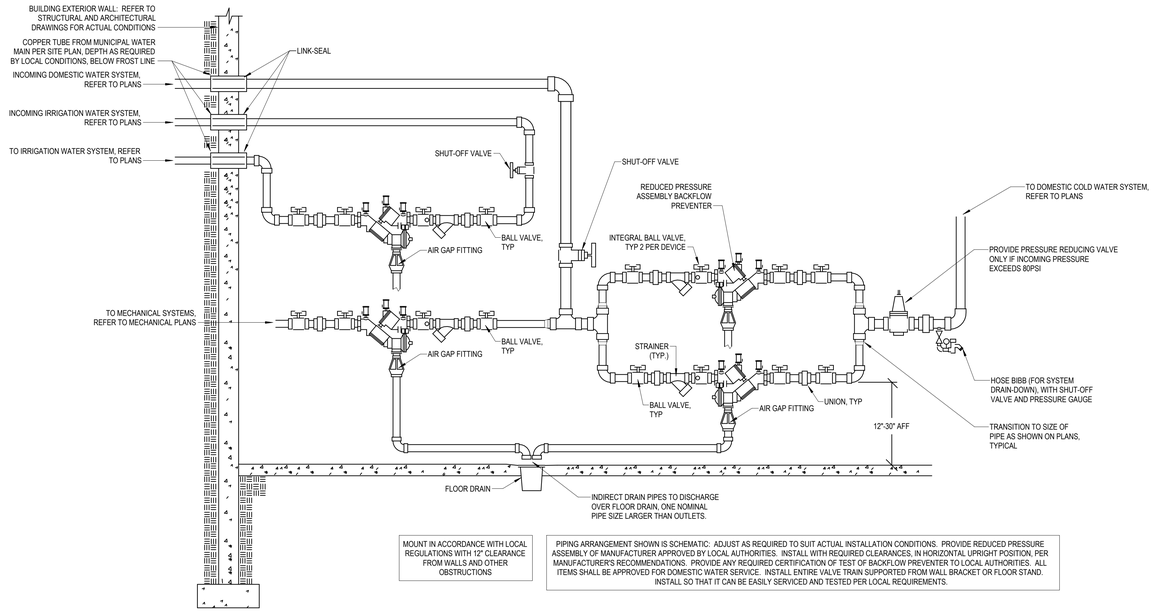
3 ELECTRIC WATER HEATER WITH RECIRCULATION PUMP

SCALE: NTS



2 GAS WATER HEATING SYSTEM DIAGRAM

SCALE: NTS



1 DOMESTIC WATER SERVICE ENTRY

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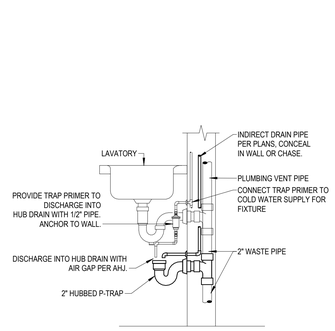
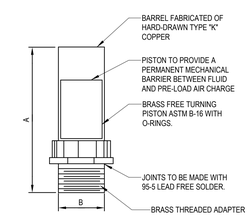


PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. IF LAVATORY IS HANDICAP ENABLED, INSTALL P-TRAP SO IT DOES NOT ENCROACH ON ADA ACCESSIBILITY SPACE.

8 HUB DRAIN ABOVE FLOOR

SCALE: NTS



PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

LOCATE ARRESTORS IN AN ACCESSIBLE LOCATION. PROVIDE ARRESTORS AS INDICATED PER SCHEDULE. ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON, MINIMUM.

7 WATER HAMMER ARRESTOR

SCALE: NTS

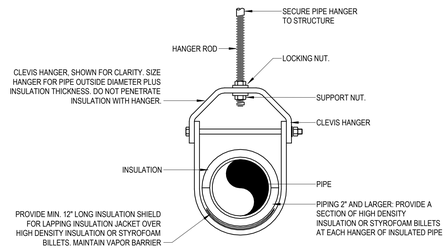
6 WALL CLEANOUT

SCALE: NTS

REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

5 VENT THRU ROOF

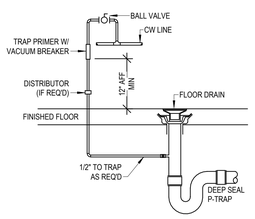
SCALE: NTS



REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO STRUCTURE, AND HANGER SPACING.

4 INSULATED PIPE HANGER

SCALE: NTS



3 TRAP PRIMER

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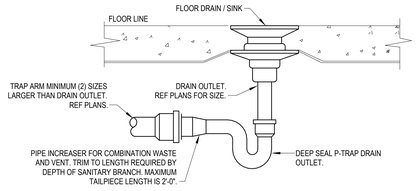
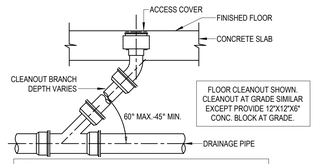


NOTE:
THIS IS A TYPICAL INSTALLATION FOR BOTH FLOOR SINKS AND FLOOR DRAINS ON A COMBINATION WASTE AND VENT SYSTEM.

2 COMBINATION DRAIN & VENT

SCALE: NTS



NOTE:
PROVIDE EXTRA HEAVY POLISHED BRONZE OR NICKEL BRONZE ACCESS COVER, FINISHED AREAS ONLY. CAST IRON IN UNFINISHED AREAS.

1 FLOOR CLEANOUT

SCALE: NTS

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK HOWES

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ABBREVIATIONS

(AS APPLICABLE)

(E)	EXISTING
3CS	THREE-COMPARTMENT SINK
A	AMP, AMPERE
A/E	ARCHITECT / ENGINEER
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONER, AIR CONDITIONING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIG INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
ATC	AUTOMATIC TEMP CONTROLS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALANCING VALVE
BWV	BACKWATER VALVE
C	COMMON
CA	COMBUSTION AIR
CD	CEILING SUPPLY AIR DIFFUSER
CD	CONDENSATE DRAIN
CF	CEILING FAN
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CKT	CIRCUIT
CLG	CEILING
CO	CARBON MONOXIDE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONFIG	CONFIGURATION
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
CU	COPPER
CV	CIRCUIT VENT (APC SECTION 914)
CV	CONSTANT VOLUME
CWV	COMBINATION WASTE & VENT (APC SECTION 915)
DB	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DF	DRINKING FOUNTAIN
DH	DUCT HEATER
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DISC	DISCONNECT
DN	DOWN
DN	DOWNSPOUT NOZZLE
DOM	DOMESTIC
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EM	EMERGENCY LIGHTING
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FM	FLOW METER
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPWH	FREEZE PROOF WALL HYDRANT
FS	FLOOR SINK
FS	FLOW SWITCH
FT	FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GI	GREASE INTERCEPTOR
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRAINS
GR	GROUND
HB	HOSE BIBB
HD	HEAD
HD	HUB DRAIN
HOA	HAND / OFF / AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HS	HAND SINK
HS	HAND SWITCH
HZ	HERTZ
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
I/O	INPUT / OUTPUT
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN	INCHES
IN WC	INCHES OF WATER COLUMN
IND	INDIRECT
IPLV	INTEGRATED PART LOAD VALUE
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KW	KILOWATT
KWH	KILOWATT HOUR
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB, #	POUNDS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MHB	MIXING HOSE BIBB
MIN	MINIMUM
MLO	MAIN LUG ONLY
MM	MILLIMETER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOP SINK
MUA	MAKE-UP AIR
MZ	MULTI-ZONE
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOCIATION
NFC	NOT FOR CONSTRUCTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PNLBD	PANELBOARD
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RAW	RETURN AIR WALL GRILLE
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
RD	RADIATION DAMPER
RD	ROOF DRAIN
REBAL	REBALANCE
RECIRC	RECIRCULATE
REF	REFERENCE
REL	RELOCATED
REQ	REQUIRED
REV	REVISION, REVISE
RG	RETURN GRILLE
RH	RADIANT HEATER
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RO	REVERSE OSMOSIS
ROD	ROOF OVERFLOW DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SAW	SUPPLY AIR WALL REGISTER
SC	SECURITY CAMERA
SC	SENSIBLE CAPACITY
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SM	SHEET METAL
SMACNA	SHEET METAL & A/C CONT NAT'L ASSOC.
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
STD	STANDARD
SZ	SINGLE-ZONE
TAB	TESTING, ADJUSTING, BALANCE
TC	TOTAL CAPACITY
TD	TEMPERATURE DIFFERENCE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TFD	TO FLOOR DRAIN
TG	TRANSFER GRILLE
THRU	THROUGH
TMV	THERMOSTATIC MIXING VALVE
TP	TOTAL PRESSURE
TP	TRAP PRIMER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
U/F	UNDER FLOOR
U/G	UNDER GROUND
U/S	UNDER SLAB
UC	UNDERCUT DOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UR	URINAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
V	VOLT
VA	VOLT-AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VBF	VENT BELOW FLOOR
VBG	VENT BELOW GRADE
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WATTS
w/	WITH
w/o	WITHOUT
WB	WASHER BOX
WB	WET-BULB TEMPERATURE
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE
WV	WET VENT (APC SECTION 912)
XFMR	TRANSFORMER

PIPING SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER SUPPLY
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
TWS	SUPPLY FROM TOWER
TWR	RETURN TO TOWER
S#	STEAM AT # PSI
SR	STEAM CONDENSATE RETURN
R	REFRIGERATION (SUCTION & LIQUID)
CD	CONDENSATE DRAIN
	PIPE: RISE / FALL / TEE DOWN
	SHUT-OFF VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	EMERGENCY SHUT-OFF VALVE W/ FUSIBLE LINK
	2-WAY CONTROL VALVE (ELECTRIC/ELECTRONIC)
	3-WAY CONTROL VALVE (ELECTRIC/ELECTRONIC)
	2-WAY CONTROL VALVE (PNEUMATIC)
	3-WAY CONTROL VALVE (PNEUMATIC)
	ASME RELIEF VALVE
	CHECK VALVE
	REDUCED PRESSURE ZONE (RPZ)
	STRAINER w/ DRAIN VALVE
	AIR VENT (A-AUTO, H-HAND)
	PRESSURE AND TEMPERATURE TAP
	PRESSURE GAUGE W/ INSERTION WELL
	THERMOMETER W/ INSERTION WELL
FM	GPM FLUID FLOW METER
	ANCHOR
	PIPE GUIDE
	FLANGE
	UNION
	FLEXIBLE PIPE CONNECTOR
	CAPPED PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

DUCTWORK SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
12"ø	12"ø DIAMETER ROUND DUCT (INSIDE CLEAR DIMENSIONS)
18"x12"	RECTANGULAR DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
18"/12"Ø	FLAT OVAL DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
	MEDIUM / HIGH PRESSURE DUCTWORK (REFER TO SPECIFICATIONS)
	SPIRAL DUCTWORK (REFER TO SPECIFICATIONS)
	SUPPLY DUCT IN SECTION
	RETURN DUCT IN SECTION
	EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES (GREATER THAN 45° ANGLE ONLY)
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	VOLUME/BALANCE DAMPER
M	MOTORIZED DAMPER
	FIRE DAMPER (FD)
	SMOKE DAMPER (SD)
	COMBINATION FIRE/SMOKE DAMPER (FSD)
A | 3 10"x10" 500	DEVICE MARK | THROW PATTERN (IF SHOWN) NECK SIZE OR LENGTH OF LINEAR DIFFUSER CFM
T	THERMOSTAT
S	TEMPERATURE SENSOR
C	CO2 SENSOR
H	HUMIDISTAT
D	SMOKE DETECTOR
SP	STATIC PRESSURE SENSOR
P	PULL STATION
CO	CARBON MONOXIDE SENSOR

KITCHEN EXHAUST HOOD SYSTEM NOTES

COMPLIANCE:
THE ENTIRE KITCHEN HOOD EXHAUST SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MECHANICAL CODE SECTION 506 AND 507.

GREASE DUCT MATERIALS:
ALL TYPE-1 GREASE EXHAUST DUCTS SHALL BE NFPA 96 APPROVED UL LISTED DOUBLE-WALL FACTORY BUILT GREASE DUCT RATED FOR ZERO-CLEARANCE TO COMBUSTIBLES.

GREASE DUCT SLOPE:
WHERE APPLICABLE, PITCH ALL HORIZONTAL GREASE UNIFORMLY BACK TOWARDS THE RESPECTIVE HOOD OR APPLIANCE AT A MINIMUM 1/4" PER FOOT (NOT TO EXCEED 75'-0").

GREASE DUCT CLEANOUTS:
PROVIDE CLEANOUTS/ACCESS PANELS AT EACH CHANGE OF DIRECTION AS REQUIRED BY NFPA 96.

ROOF CURBS:
ROOF CURBS FOR EXHAUST FANS SHALL BE FACTORY FABRICATED OF FULL WELDED STEEL CONSTRUCTION WITH WOOD NAILER, AND FURNISHED WITH THE HOOD AND FAN PACKAGE. VERIFY REQUIREMENTS FOR THE ROOF CURBS WITH THE EQUIPMENT SUPPLIER. THE GENERAL CONTRACTOR SHALL FLASH ROOF CURBS AND SHIM DEAD LEVEL. COORDINATE EXACT SIZE AND LOCATION OF ROOF OPENINGS WITH THE STRUCTURAL FRAMING. CUTTING OF STRUCTURAL MEMBERS IS NOT PERMITTED. FAN SHALL DISCHARGE AT MINIMUM 40" CLEARANCE ABOVE ROOF LINE PER NFPA 96.

EXHAUST HOOD:
ALL MATERIALS INSTALLED WITHIN 18" OF THE HOOD SHALL BE NON-COMBUSTIBLE. FIRE SUPPRESSION CABINET TO BE FURNISHED WITH THE HOOD PACKAGE AND INSTALLED BY THE KITCHEN EQUIPMENT CONTRACTOR.

MANUAL ACTIVATION STATION:
PULL STATION FOR KITCHEN HOOD FIRE SUPPRESSION SYSTEM ACTIVATION AND GAS SUPPLY SHUT-OFF TO BE PROVIDED BY THE FIRE SUPPRESSION SUBCONTRACTOR. GENERAL CONTRACTOR SHALL PROVIDE RECESSED JUNCTION BOX AND CONDUIT FOR PULL STATION LINKAGE. FIRE SUPPRESSION SUBCONTRACTOR SHALL VERIFY APPROVED LOCATION WITH THE LOCAL AUTHORITY AND COORDINATE THE COMPLETE INSTALLATION WITH ALL OTHER TRADES.

GAS VALVE:
A LINE-SIZED MECHANICAL GAS SHUT-OFF VALVE AND STRAINER TO BE PROVIDED BY THE HOOD MANUFACTURER AND INSTALLED BY THE PLUMBING CONTRACTOR.

EQUIPMENT RELAYS:
TYPE I HOOD SYSTEM (KITCHEN EXHAUST FAN) SHALL BE INTERLOCKED WITH COOKING APPLIANCES TO AUTOMATICALLY ACTIVATE SOURCES OF EXHAUST AND MAKE-UP AIR WHENEVER COOKING OPERATIONS OCCUR.

APPLICABLE CODES

2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING
2021 ARKANSAS MECHANICAL CODE (AMC)
2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)
2018 ARKANSAS PLUMBING CODE (APC)
2018 ARKANSAS FUEL GAS CODE (AFGC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

ANNOTATION SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
	PLAN NOTE (PER SHEET)
XXXX	KITCHEN EQUIPMENT REFERENCE NUMBER
	POINT OF CONNECTION TO EXISTING
	TERMINATION OF DEMOLITION
	CONTINUATION
1 / M1	DETAIL NUMBER SHEET NUMBER
1 / M1	SECTION CUT DESIGNATION

DESIGN CONDITIONS

WEATHER STATION (2021 ASHRAE HANDBOOK):

DRAKE FIELD, AR, USA (WMO: 723445)
ELEVATION: 1251 FT.

OUTDOOR DESIGN CONDITIONS:

COOLING (0.4%):	95.2°F DB / 74.4°F WB
DEHUMIDIFICATION (0.4%):	75.3°F DP / 83.3°F DB
ENTHALPY (0.4%):	42.7 BTU/LB / 88.5°F DB
HEATING (99.6%):	10.4°F DB
HUMIDIFICATION (99.6%):	1.0°F DP / 14.3°F DB

INDOOR DESIGN CONDITIONS:
(UNLESS SPECIFIED BY ROOM ELSEWHERE)

SUMMER:	72°F DB / 50% RH
WINTER:	70°F DB

MECHANICAL GENERAL NOTES

(AS APPLICABLE)

1. NOTES APPLY TO ALL MECHANICAL SHEETS.
2. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
3. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.
4. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR WILL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER.
5. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK. PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
6. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE FLOOR PLANS FOR EXACT LOCATION OF DUCT OR PIPE ROUTING. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.
7. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
8. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED EQUIPMENT, DUCT, OR PIPING LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS.
9. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
10. THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (BASIS OF DESIGN); THE SELECTION OF WHICH INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, MODELS, ETC. ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL DIFFERENCES WITH OTHER TRADES. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED.
11. MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
    A. DISCONNECTS:
        - WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.
        - WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY EC.
12. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
13. COORDINATE DUCTWORK AND PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
14. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.
15. DUCTWORK CROSSING FIRE RATED WALLS OR OTHER FIRE RATED ASSEMBLIES SHALL BE MINIMUM 26 GAUGE SHEET METAL.
16. PROVIDE FIRE/SMOKE DAMPERS, AS APPLICABLE, IN DUCTWORK AT CEILINGS AND WALLS AT LOCATIONS SHOWN ON THE PLANS. FIRE AND FIRE/SMOKE DAMPERS SHALL CONFORM TO NFPA AS APPLICABLE. COORDINATE SLEEVE LENGTH WITH REQUIREMENTS OF INSTALLED LOCATION.
17. PROVIDE WALL OR DUCT ACCESS PANELS OR DOORS FOR ACCESS TO FIRE AND FIRE/SMOKE DAMPERS. ACCESS PANEL OR DOOR SHALL BE MINIMUM SIZE OF 10" BY 10" AND SHALL BE INSTALLED WITHIN 12" OF DAMPER. PROVIDE A REMOVABLE DUCT SECTION WHERE DUCT SIZE IS TOO SMALL FOR A 10" BY 10" ACCESS DOOR.
18. DUCTWORK IDENTIFICATION AND INSTALLATION SHALL ADHERE TO GOVERNING CODES.
19. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED. ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
20. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
21. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT.
22. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
23. SPRINKLER HEAD AND LIGHTING FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATIONS. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
24. ALL CEILING DIFFUSERS ARE 4-WAY PATTERN UNLESS NOTED OTHERWISE.
25. LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL WIRING IN CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
26. PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS. LOCATE DAMPERS A MINIMUM 4'-0" AWAY FROM DIFFUSERS. PROVIDE REMOTE BALANCING DAMPER (POTTORFF MODEL RD-10 OR EQUAL) OR CABLE OPERATED DAMPER (POTTORFF MODEL RCS OR EQUAL) WHERE INSTALLED IN AN INACCESSIBLE LOCATION.
27. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT.
28. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS NOTED OTHERWISE.
29. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS AND ARE REPRESENTATIVE OF THE INSIDE EQUIVALENT FREE AREA REQUIRED TO MAINTAIN THE AIR FLOW SPECIFIED. IF DUCT LINING IS REQUIRED, INCREASE DUCT SIZE TO MAINTAIN ORIGINAL INSIDE DIMENSIONS. IF DUCT SIZES NEED TO BE ALTERED FOR SPACE REQUIREMENTS, ENSURE THE ORIGINAL INSIDE DUCT EQUIVALENT FREE AREA IS MAINTAINED.
30. CONTRACTOR'S OPTION TO SUBSTITUTE ROUND DUCT OF EQUAL FREE AREA FOR RECTANGULAR DUCT AND VICE VERSA. DIMENSIONS OF RECTANGULAR DUCT MAY BE ADJUSTED AS NECESSARY TO INSTALL DUCT IN AVAILABLE SPACE AS LONG AS FREE AREA IS MAINTAINED.
31. RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, 2" R-6 THICK, INSULATION WRAP ON RIGID ROUND AND RECTANGULAR, CONCEALED SUPPLY, RETURN , AND OUTSIDE AIR DUCTS.
32. PROVIDE THERMAFLEX TYPE G-KM, M-KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R-6, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 3'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.
33. FOR ALL EXPOSED DUCTWORK, PROVIDE DUCT THAT IS SUITABLE FOR PAINTING. ENSURE THAT ALL EXPOSED DUCTWORK IS PROPERLY PREPARED AND READY FOR PAINTING. COORDINATE COLOR WITH ARCHITECT.
34. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.
35. PROVIDE A COMPLETE TEST AND BALANCE FOR HVAC SYSTEM. AIR BALANCE SHALL BE WITHIN 5% OF SCHEDULED AIRFLOWS AND WATER FLOWS.
36. INSTALL VTR'S AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE.
37. PROVIDE SEISMIC BRACING FOR ALL COMPONENTS AS REQUIRED BASED ON APPROPRIATE SEISMIC DESIGN CATEGORY REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES PROVIDING ALL REQUIRED DOCUMENTATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS.
38. THE DESIGN OF ANY AND ALL STRUCTURAL SYSTEMS (INCLUDING MODIFICATIONS TO EXISTING STRUCTURES) THAT MAY BE REQUIRED FOR SUPPORT OF NEW MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF SEPARATE LICENSED STRUCTURAL ENGINEER.

U OF A ALPHA PHI HOUSE

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — JASON PATRICK HOWELL — No. 14788

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title MECHANICAL NOT

AIR HANDLING UNIT SCHEDULE

MARK	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNT / CONFIG.	AIRFLOW TYPE	AIRFLOW CFM (MIN./MAX.)	AIRFLOW FAN ESP (IN. WG.)	AIRFLOW FAN MOTOR (HP)	COOLING TYPE	COOLING TC (MBH)	COOLING SC (MBH)	COOLING PEAK EAT (°F DB/WB)	COOLING PEAK LAT (°F DB/WB)	WATER GPM	WATER COIL ROWS	WATER WPD (FT. WG.)	WATER EWT (°F)	WATER LWT (°F)	PRE-HEATING TYPE	PRE-HEATING TC (MBH)	PRE-HEATING HEATING PEAK EAT (°F DB)	PRE-HEATING HEATING PEAK LAT (°F DB)	PRE-HEATING WATER GPM	PRE-HEATING WATER COIL ROWS	PRE-HEATING WATER WPD (FT. WG.)	PRE-HEATING WATER EWT (°F)	PRE-HEATING WATER LWT (°F)	FILTER	ELECTRICAL	WEIGHT (LB.)	NOTES
AHU-1	YORK	XTI-60x78	AIR HANDLING UNIT	6" BASE RAILS	SUPPLY OUTSIDE AIR RELIEF	10,700 1,200 / 3,900 11,700	2.00 -- 1.50	(4) @ 5.0 -- (4) @ 5.0	CHILLED WATER COIL	508.0	341.0	82.4 / 67.1	51.4 / 50.4	84.2	6	9.1	42.0	54.0	PRE-HEAT HEATING WATER COIL	243.0	51.7	73.0	16.5	1	3.2	140.0	110.1	2" MERV 8	208 / 3 / 60 53.2 FLA 60.0 MOCP 208 / 3 / 60 53.2 FLA 60.0 MOCP 120 / 1 / 60 1.3 FLA 15.0 MOCP 120 / 1 / 60 0.5 FLA 15.0 MOCP	8,730	A,C,D,E,F
AHU-2	YORK	XTI-60x78	AIR HANDLING UNIT	6" BASE RAILS	SUPPLY OUTSIDE AIR RELIEF	10,650 1,200 / 5,405 10,650	2.00 -- 1.50	(4) @ 5.0 -- (4) @ 5.0	CHILLED WATER COIL	562.0	368.0	85.2 / 68.8	51.4 / 50.5	92.9	6	10.9	42.0	54.1	PRE-HEAT HEATING WATER COIL	396.0	42.5	76.7	26.9	2	2.1	140.0	110.0	2" MERV 8	208 / 3 / 60 53.2 FLA 60.0 MOCP 208 / 3 / 60 53.2 FLA 60.0 MOCP 120 / 1 / 60 1.3 FLA 15.0 MOCP 120 / 1 / 60 0.5 FLA 15.0 MOCP	8,844	A,C,D,E,F
DOAS-1	YORK	XTI-48x48	DEDICATED 100% OUTDOOR AIR UNIT	6" BASE RAILS	SUPPLY	2,250	1.50	(1) @ 2.0	CHILLED WATER COIL	169.0	73.0	83.3 / 75.3	52.3 / 52.0	28.1	5	5.2	42.0	54.0	PRE-HEAT HEATING WATER COIL RE-HEAT HEATING WATER COIL	45.0 106.5	54.0 10.4	72.8 54.0	3.0 28.0	1 3	0.2 1.8	140.0 140.0	109.9 132.3	2" MERV 8	208 / 3 / 60 6.2 FLA 15.0 MOCP 120 / 1 / 60 0.75 FLA 15.0 MOCP 120 / 1 / 60 0.5 FLA 15.0 MOCP	3,075	B,G

GENERAL NOTES:

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (BASE RAILS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. SCHEDULED OUTSIDE AIR QUANTITIES ARE FOR OCCUPIED MODE AND DO NOT INCLUDE ECONOMIZER MODE.
4. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
5. CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE TO NEAREST APPROVED RECEPTOR PER PLANS OR AS OTHERWISE REQUIRED BY THE AHJ. REFER TO TRAP DETAIL.
6. PROVIDE WITH CONDENSATE OVERFLOW SWITCH TO SHUT DOWN SYSTEM IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
7. PROVIDE WITH PIPING PACKAGE INCLUDING UNIONS, STRAINER, ISOLATION VALVES, MANUAL AIR VENT, DRAIN VALVE, AND TEST PORTS.
8. 2-WAY CHILLED WATER AND 2-WAY HEATING WATER CONTROL VALVES AND ACTUATORS PROVIDED BY ATC CONTRACTOR.
9. PROVIDE WITH UVC LIGHTING SECTION DOWNSTREAM OF CHILLED WATER COIL.
10. PROVIDE WITH COMPARATIVE ENTHALPY ECONOMIZER.
11. PROVIDE WITH OUTSIDE AIRFLOW MEASURING STATION.
12. PROVIDE WITH STAINLESS STEEL IAQ DRAIN PAN.
13. PROVIDE WITH INTERIOR LED LIGHTING IN EACH SECTION.
14. PROVIDE WITH DIRECT DRIVE FANS.
15. PROVIDE WITH 2" DOUBLE WALL CONSTRUCTION WITH 2" FOAM INSULATION.
16. PROVIDE WITH 6" BASE RAILS.
17. PROVIDE WITH AEGIS SHAFT GROUNDING RINGS FOR VARIABLE SPEED MOTORS.
18. PROVIDE WITH (1) VARIABLE FREQUENCY DRIVE TO CONTROL ALL (4) SUPPLY FANS, IT WILL BE FIELD MOUNTED ON MECHANICAL ROOM WALL.
19. PROVIDE WITH (1) VARIABLE FREQUENCY DRIVE TO CONTROL ALL (4) RELIEF FANS, IT WILL BE FIELD MOUNTED ON MECHANICAL ROOM WALL.
20. CONTROLS SHALL BE FIELD PROVIDED BY ATC CONTRACTOR.
21. REFER TO SEQUENCE OF OPERATION AND CONTROLS DIAGRAMS.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH PRE-HEAT HEATING WATER COIL.
B. PROVIDE WITH WINGED PRE-HEAT HEATING WATER COIL AND RE-HEAT HEATING WATER COIL.
C. PROVIDE WITH SUPPLY AIRLOW AND RELIEF AIRFLOW MEASURING STATIONS.
D. PROVIDE WITH MODULATING POWERED EXHAUST FOR BUILDING PRESSURIZATION CONTROL.
E. PROVIDE WITH BACKDRAFT DAMPERS FOR THE SUPPLY FANS AND RELIEF FANS.
F. PROVIDE (1) VFD FOR THE SUPPLY FAN ARRAY AND (1) VFD FOR THE RELIEF FAN ARRAY.
G. PROVIDE (1) VFD FOR THE SUPPLY FAN.

SUPPLY TERMINAL UNIT SCHEDULE

MARK	SERVED BY	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	INLET SIZE (IN.)	STATIC PRESSURE INLET (IN. WG.)	STATIC PRESSURE OUTLET (IN. WG.)	VALVE SETPOINT OCCUPIED MIN. (CFM)	VALVE SETPOINT UNOCCUPIED MIN. (CFM)	VALVE SETPOINT COOL MAX. (CFM)	VALVE SETPOINT HEAT MAX. (CFM)	HEATING UNIT MAX. (CFM)	HEATING TC (MBH)	HEATING EAT (°F DB)	HEATING LAT (°F DB)	HEATING WATER GPM	HEATING WATER COIL ROWS	HEATING WATER FPI	HEATING WATER WPD (FT. WG.)	HEATING WATER EWT (°F)	HEATING WATER LWT (°F)	ELECTRICAL	NOTES
VAV-1-1	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	8	1.00	0.25	150	0	500	250	250	11.2	53.0	95.0	2.0	2	10	0.58	140.0	128.5	120 / 1 / 60	
VAV-1-2	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	12	1.00	0.25	390	0	1,300	650	650	29.1	53.0	95.0	1.8	3	10	0.26	140.0	106.4	120 / 1 / 60	A
VAV-1-3	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	4	1.00	0.25	30	0	85	45	--	--	--	--	--	--	--	--	--	--	120 / 1 / 60	B
VAV-1-4	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	14	1.00	0.25	450	0	1,500	750	750	33.6	53.0	95.0	5.1	2	10	1.09	140.0	126.5	120 / 1 / 60	A
VAV-1-5	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	14	1.00	0.25	375	0	1,190	595	595	26.6	53.0	95.0	2.7	2	10	0.38	140.0	120.2	120 / 1 / 60	
VAV-1-6	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	16	1.00	0.25	740	0	2,460	1,230	1,230	41.9	53.0	85.0	3.8	2	10	0.28	140.0	117.5	120 / 1 / 60	
VAV-1-7	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	10	1.00	0.25	245	0	650	325	325	14.5	53.0	95.0	2.1	2	10	0.33	140.0	125.8	120 / 1 / 60	
VAV-1-8	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	6	1.00	0.25	110	0	225	115	115	5.5	53.0	98.0	0.8	2	10	0.14	140.0	126.8	120 / 1 / 60	
VAV-1-9	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	8	1.00	0.25	185	0	615	310	310	13.9	53.0	95.0	4.9	2	10	3.17	140.0	134.2	120 / 1 / 60	
VAV-1-10	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	6	1.00	0.25	115	0	250	125	125	5.7	53.0	96.0	0.8	2	10	0.14	140.0	126.1	120 / 1 / 60	
VAV-1-11	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	6	1.00	0.25	115	0	250	125	125	5.7	53.0	95.0	0.8	2	10	0.14	140.0	126.1	120 / 1 / 60	
VAV-1-12	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	8	1.00	0.25	225	0	600	300	300	13.4	53.0	95.0	4.1	2	10	2.24	140.0	133.3	120 / 1 / 60	
VAV-1-13	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	10	1.00	0.25	280	0	850	425	425	19.0	53.0	95.0	5.1	2	10	1.63	140.0	132.5	120 / 1 / 60	
VAV-1-14	AHU-1	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	6	1.00	0.25	110	0	225	115	115	5.5	53.0	98.0	0.8	2	10	0.14	140.0	126.8	120 / 1 / 60	
VAV-2-1	AHU-2	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	40	1.00	0.25	1,680	0	5,600	2,500	2,500	85.2	53.0	85.0	5.8	2	12	0.76	140.0	110.3	120 / 1 / 60	A
VAV-2-2	AHU-2	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	16	1.00	0.25	610	0	2,030	1,015	1,015	49.1	53.0	98.0	3.3	3	10	0.20	140.0	110.2	120 / 1 / 60	A
VAV-2-3	AHU-2	TITUS	DESV	SINGLE DCUT SUPPLY TERMINAL UNIT WITH HOT WATER REHEAT COIL	16	1.00	0.25	610	0	2,020	1,010	1,010	49.0	53.0	99.0	3.3	3	10	0.20	140.0	110.2	120 / 1 / 60	A

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGER BRACKETS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. SCHEDULED AIRFLOW SETPOINTS ARE FOR OCCUPIED MODE AND DO NOT INCLUDE UNOCCUPIED MODES.
4. REFER TO PLANS FOR CONFIGURATION / ORIENTATION.
5. MAXIMUM RADIATED NC-40, MAXIMUM DISCHARGE NC-30.
6. PROVIDE WITH INTEGRAL DISCONNECT SWITCH AND DOOR INTERLOCK.
7. PROVIDE WITH FACTORY INSTALLED PIPING PACKAGE INCLUDING UNIONS, STRAINER, ISOLATION VALVES, FLOW CONTROL VALVE SIZED FOR DESIGN WATER FLOW, MANUAL AIR VENT, DRAIN VALVE, AND TEST PORTS.
8. 2-WAY CONTROL VALVE AND ACTUATOR PROVIDED BY ATC CONTRACTOR.
9. PROVIDE WITH 1" FIBER-FREE FOAM INSULATION.
10. PROVIDE WITH FACTORY-INSTALLED, PRESSURE INDEPENDENT, DDC CONTROLS AND CONTROL TRANSFORMER.
11. PROVIDE WITH BACNET INTERFACE TO CONNECT TO BAS.
12. THERMOSTAT TO BE PROVIDED BY ATC CONTRACTOR.
13. REFER TO SEQUENCE OF OPERATION AND CONTROLS DIAGRAMS.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH CO2 SENSOR FOR DEMAND CONTROLLED VENTILATION.
B. COOLING ONLY.

AIR COOLED CHILLER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	NOMINAL TONS	TC (TONS)	EFF.	WATER GPM (MIN. / DESIGN / MAX.)	WATER WPD (FT. WG.)	WATER EWT (°F)	WATER LWT (°F)	REFRIG. TYPE	COMPRESSORS	ELECTRICAL	MINIMUM AIC RATING	WEIGHT (LB.)
CH-1	YORK	YLAA0139HJ17XFB	AIR-COOLED SCROLL CHILLER	120.0	121.0	EER = 10.04 NPLV = 17.67	138.0 / 240.0 / 525.0	8.25	54.0	42.0	R-454B	(5) HEREMETIC SCROLL COMPRESSORS	208 / 3 / 60 565.0 MCA 600.0 MOCP	60K	7,194

GENERAL NOTES:

1. UL OR ETL APPROVED. UNIT EFFICIENCY SHALL COMPLY WITH ASHRAE 90.1 AND CSA C743.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING.
3. AMBIENT AIR TEMPERATURE: 95.0°F DB.
4. PROVIDE WITH HIGH AMBIENT KIT.
5. PROVIDE WITH FACTORY ELECTRICAL NON-FUSED DISCONNECT SWITCH AND ACROSS THE LINE STARTER.
6. PROVIDE WITH SINGLE-POINT THREE-PHASE POWER CONNECTION FOR CHILLER AND ONE SEPARATE 120/1/60 20 AMP CONNECTION FOR HEATERS.
7. FOULING FACTOR: 0.0001
8. PROVIDE WITH FREEZE PROTECTION.
9. PROVIDE WITH FLOW SWITCH.
10. PROVIDE WITH FACTORY INSTALLED SOUND ENCLOSURES FOR THE COMPRESSORS AND LOW SOUND FANS WITH VSD FOR THE CONDENSER FANS.
11. PROVIDE WITH EC MOTORS OR FACTORY VFD AND SHAFT GROUNDING RINGS.
12. PROVIDE WITH SERVICE ISOLATION VALVES.
13. PROVIDE WITH LOUVERED HAIL GUARDS FOR CONDENSER COILS.
14. PROVIDE WITH THERMAL DISPERSION FLOW SWITCH.
15. PROVIDE HEAD PRESSURE CONTROLS FOR LOW AMBIENT OPERATION DOWN TO 20°F AMBIENT.
16. PROVIDE WITH REFRIGERANT LEAK DETECTION.
17. PROVIDE WITH FACTORY MOUNTED DDC CONTROLS.
18. PROVIDE WITH CONTROL TRANSFORMER AND BACNET INTERFACE.
19. REFER TO SEQUENCE OF OPERATION AND CONTROLS DIAGRAMS.

BOILER SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	HEATING FUEL TYPE	HEATING INPUT MIN. / MAX. (MBH)	HEATING TURNDOWN	HEATING OUTPUT MAX. (MBH)	HEATING EFF.	WATER EWT (°F)	WATER LWT (°F)	WATER DESIGN FLOW (GPM)	WATER WPD (FT. H2O)	PHYSICAL DATA GAS CONNECTION (IN.)	PHYSICAL DATA WATER CONNECTION (IN.)	PHYSICAL DATA VENT (IN.)	PHYSICAL DATA INTAKE (IN.)	ELECTRICAL	WEIGHT (LB.)
B-1	FULTON	ENDURA-1000	CONDENSING NATURAL GAS BOILER	NATURAL GAS	90.0 / 1000.0	11:1	953.0	95.3%	110.0	140.0	67.0	1.5	1.0	2.0	6.0	6.0	120 / 1 / 60 10.0 FLA 20.0 MOCP	1,848
B-2	FULTON	ENDURA-1000	CONDENSING NATURAL GAS BOILER	NATURAL GAS	90.0 / 1000.0	11:1	953.0	95.3%	110.0	140.0	67.0	1.5	.01	2.0	6.0	6.0	120 / 1 / 60 10.0 FLA 20.0 MOCP	1,848

GENERAL NOTES:

1. PROVIDE WITH INTEGRAL DISCONNECT SWITCH.
2. PROVIDE WITH CONDENSATE NEUTRALIZING KIT.
3. PROVIDE WITH 160 PSIG ASME SAFETY RELIEF VALVE.
4. PROVIDE WITH FACTORY CONTROLS, INCLUDING BOILER CONTROL PANEL AND BAS INTERFACE FOR CONNECTION TO THE BAS.
5. PROVIDE WITH WALL VENT KITS.
6. REFER TO SEQUENCE OF OPERATION AND CONTROLS DIAGRAMS.

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Job No. UAFAPH-21.01
Date 12.18.2025
Title

MECHANICAL SCHEDULES

Sheet No.

M1.00

Project Name
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AIR DEVICE SCHEDULE

MARK	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	MODULE SIZE	NECK SIZE	NOTES
A	SUPPLY	TITUS	TDC-AA	ALUMINUM LOUVERED FACE DIFFUSER, ROUND NECK	12" x 12"	REF. PLAN	A
B	SUPPLY	TITUS	TDC-AA	ALUMINUM LOUVERED FACE DIFFUSER, ROUND NECK	24" x 24"	REF. PLAN	A
C	SUPPLY	CAPTIVE AIRE	PSP	STAINLESS STEEL PERFORATED SUPPLY DIFFUSER, ROUND NECK	24" x 24"	REF. PLAN	
D	SUPPLY	TITUS	300FL	ALUMINUM DOUBLE DEFLECTION GRILLE, 3/4" BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	
E	SUPPLY	TITUS	CT-480	ALUMINUM LINEAR BAR GRILLE, 1/8" THICK BARS, 0° DEFLECTION, 1/4" SPACING WIDTH, 4" NOMINAL DUCT WIDTH	REF. PLAN FOR LENGTH	REF. PLAN	B,D
G	SUPPLY	TITUS	CT-481	ALUMINUM LINEAR BAR GRILLE, 1/8" THICK BARS, 15° DEFLECTION, 1/4" SPACING WIDTH, 4" NOMINAL DUCT WIDTH	REF. PLAN FOR LENGTH	REF. PLAN	B,D
H	SUPPLY	HART & COOLEY	A681	ALUMINUM ADJUSTABLE SUPPLY REGISTER - 1 WAY WITH DAMPER IN NECK	---	REF. PLAN	
I	SUPPLY	HART & COOLEY	A682	ALUMINUM ADJUSTABLE SUPPLY REGISTER - 2 WAY WITH DAMPER IN NECK	---	REF. PLAN	
J	SUPPLY	HART & COOLEY	A683	ALUMINUM ADJUSTABLE SUPPLY REGISTER - 3 WAY WITH DAMPER IN NECK	---	REF. PLAN	
K	SUPPLY	ALDES	CSR3-R	ALUMINUM CONSTANT VOLUME SINGLE-DEFLECTION SUPPLY AIR GRILLE	---	REF. PLAN	
L	SUPPLY	TITUS	CT-481	ALUMINUM LINEAR BAR GRILLE, 1/8" THICK BARS, 15° DEFLECTION, 1/4" SPACING WIDTH, 6" NOMINAL DUCT WIDTH	REF. PLAN FOR LENGTH	REF. PLAN	B,D
1	RETURN / TRANSFER	TITUS	350FL	ALUMINUM GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	
2	RETURN / TRANSFER	TITUS	CT-480	ALUMINUM LINEAR BAR GRILLE, 1/8" THICK BARS, 0° DEFLECTION, 1/4" SPACING WIDTH, 4" NOMINAL DUCT WIDTH	REF. PLAN FOR LENGTH	REF. PLAN	C
3	RETURN / TRANSFER	TITUS	50F	ALUMINUM EGGCRATE GRILLE, SQUARE NECK	24" x 24"	REF. PLAN	
4	RETURN / TRANSFER	HART & COOLEY	A672	ALUMINUM GRILLE, 1/2" FIN SPACING AT 45°	---	REF. PLAN	
5	EXHAUST	ALDES	CER3-R	ALUMINUM CONSTANT VOLUME SINGLE-DEFLECTION EXHAUST AIR GRILLE	---	REF. PLAN	
6	EXHAUST	TITUS	50F	ALUMINUM EGGCRATE GRILLE, ROUND NECK	12" x 12"	REF. PLAN	
7	EXHAUST	TITUS	350FL	ALUMINUM GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	

GENERAL NOTES (ALL DEVICES AS APPLICABLE):

1. ALL SUPPLY DIFFUSERS ARE 4-WAY/ALL-WAY THROW UNLESS NOTED OTHERWISE.
2. DIFFUSER NECK SHALL BE SAME AS BRANCH DUCT SIZE UNLESS SHOWN OTHERWISE. REFER TO PLANS.
3. PROVIDE WITH BORDER/FRAME COMPATIBLE WITH MOUNTING SURFACE TYPE. REFER TO ARCHITECTURAL DRAWINGS.
4. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS OR READY FOR PAINT.
5. PROVIDE WITH DAMPER AT TAKEOFF TO EACH DEVICE AND WHERE OTHERWISE SHOWN ON PLANS.
6. PROVIDE NECK FOR DUCT CONNECTION AS REQUIRED. PROVIDE MANUFACTURER'S SQUARE TO ROUND ADAPTOR (SRG) WHERE APPLICABLE.
7. DIFFUSERS SHALL BE FULL FACE.
8. INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK.
9. MAX NOISE CRITERIA 28, UNLESS NOTED OTHERWISE.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH OPPOSED BLADE DAMPER IN NECK, ADJUSTABLE FROM FACE.
B. PROVIDE MANUFACTURER'S INSULATED PLENUM. FIELD FABRICATE INSULATED PLENUMS WHERE REQUIRED.
C. PROVIDE WITH RETURN BOOT PER DETAIL.
D. PROVIDE WITH BORDER TYPE 22 TAPE & SPACKLE.

AIR / DIRT SEPARATOR SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	SERVES	PIPE CONNECTION SIZE (IN.)	MAXIMUM HEIGHT (IN.)	MAXIMUM DIAMETER (IN.)	WATER FLOW (GPM)	MAX. WATER PRESSURE DROP (FT. WATER)	MAXIMUM VELOCITY (FT/SEC)
ADS-1	SPIROTHERM	VDN300FA	HEATING WATER	3.0	31.4	8.6	75.0	2.0	6.0
ADS-2	SPIROTHERM	VDN400FA	CHILLED WATER	4.0	31.4	8.6	240.0	2.0	6.0

GENERAL NOTES:

1. PROVIDE WITH FLANGED CONNECTIONS.
2. PROVIDE WITH COALESCING MEDIA.
3. PROVIDE WITH REMOVABLE HEAD.
4. PROVIDE WITH AUTOMATIC AIR VENT.
5. PROVIDE WITH BLOWDOWN VALVE.

EXPANSION TANK SCHEDULE

MARK	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	SERVES	DESCRIPTION	MAX. TEMPERATURE (F)	MAX. PRESSURE (PSIG)	FUEL TANK VOLUME (GALLONS)	MINIMUM ACCEPTANCE (GALLONS)	WEIGHT (LB.)
ET-1	TACO	CA215-150	HEATING WATER	BLADDER TYPE EXPANSION TANK	280.0	150.0	57.0	57.0	290
ET-2	TACO	CA140-150	CHILLED WATER	BLADDER TYPE EXPANSION TANK	280.0	150.0	37.0	37.0	195

GENERAL NOTES:

1. PROVIDE WITH MOUNTING STAND.

PUMP SCHEDULE

MARK	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	WATER FLOW (GPM)	TOTAL HEAD (FT. WATER)	RPM	EFFICIENCY	MOTOR HP	ELECTRICAL
CHP-1	CHILLED WATER SYSTEM	TACO	SKV3006D	VERTICAL IN-LINE PUMP	240	95	3,500	83 %	15	208 / 3 / 60
CHP-2	CHILLED WATER SYSTEM	TACO	SKV3006D	VERTICAL IN-LINE PUMP	240	95	3,500	83 %	15	208 / 3 / 60
HWP-1	HEATING WATER SYSTEM	TACO	SKV1506D	VERTICAL IN-LINE PUMP	75	80	3,500	72 %	10	208 / 3 / 60
HWP-2	HEATING WATER SYSTEM	TACO	SKV1506D	VERTICAL IN-LINE PUMP	75	80	3,500	72 %	10	208 / 3 / 60

GENERAL NOTES:

1. PROVIDE WITH INTEGRAL VARIABLE FREQUENCY DRIVE AND FUSED DISCONNECT SWITCH.
2. PROVIDE WITH SUCTION DIFFUSER AND SEDIMENT FILTER WITH SIGHT GLASS INDICATOR.
3. PROVIDE WITH AEGIS SHAFT-GROUND RING FOR MOTOR.
4. PROVIDE WITH SELF-SENSING TECHNOLOGY.
5. PROVIDE WITH BACNET INTERFACE TO CONNECT TO BAS.

LOUVER SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	SIZE	MAX. FLOW (CFM)	MAX. PD (IN. WC.)	FREE AREA (SF)	VELOCITY (FPM)	NOTES
LV-1	2	INTAKE	GREENHECK	EHH-401	WIND DRIVEN RAIN LOUVER, HORIZONTAL BLADE	96" x 56"	11,800	0.10	16.22	728	A
LV-2	2	RELIEF	GREENHECK	EHH-401	WIND DRIVEN RAIN LOUVER, HORIZONTAL BLADE	68" x 74"	10,200	0.08	15.28	668	B,C
LV-3	1	EXHAUST	GREENHECK	EHH-401	WIND DRIVEN RAIN LOUVER, HORIZONTAL BLADE	12" x 8"	75	0.08	0.13	588	B

GENERAL NOTES:

1. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH INSECT SCREEN.
B. PROVIDE WITH BIRD SCREEN.
C. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

BUFFER TANK SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNT / CONFIG.	MAX. TEMPERATURE (DEG. F)	MAX. PRESSURE (PSIG)	TANK VOLUME (GALLONS)	WEIGHT (LB.)
BT-1	2	CHILLED WATER SYSTEM	TACO	BTH0250F04-1257A	VERTICAL BUFFER TANK WITH BAFFLE, HIGH INLET/OUTLET CONNECTIONS, FLANGED	CONCRETE PAD	375.0	125.0	278	710

GENERAL NOTES:

1. PROVIDE WITH TWO PORTS.
2. PROVIDE WITH FACTORY INSTALLED 1" ARMAFLEX INSULATION WITH ALUMINUM JACKETING.

FAN SCHEDULE

MARK	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNTING	CFM (MIN./MAX.)	ESP (IN. WC.)	DRIVE	MOTOR SIZE	WHEEL DIAM. (IN.)	FAN RPM	ELECTRICAL	WEIGHT (LB.)	NOTES
EF-1	GENERAL EXHAUST	GREENHECK	G-200HP-VG	DIRECT DRIVE CENTRIFUGAL ROOF EXHAUST FAN	ROOF CURB	2,075	1.50	DIRECT	2.0 HP	21.375	1,182	208 / 1 / 60 12.5 FLA 30.0 MOCP	153	A
EF-2	GENERAL EXHAUST	GREENHECK	SP-B110ES	CEILING EXHAUST FAN	CEILING	75	0.25	DIRECT	44.0 WATTS	--	554	115 / 1 / 60 0.27 FLA 15.0 MOCP	17	C,E
EF-3	JANITOR	GREENHECK	SP-LP0810W	CEILING EXHAUST FAN	HUNG FROM STRUCTURE	50	0.375	DIRECT	9.0 WATTS	--	714	115 / 1 / 60 0.29 FLA 15.0 MOCP	15	C,D
EF-4	JANITOR	GREENHECK	SP-LP0810W	CEILING EXHAUST FAN	CEILING	50	0.375	DIRECT	9.0 WATTS	--	714	115 / 1 / 60 0.29 FLA 15.0 MOCP	15	C,D
KEF-1	KITCHEN HOOD EXHAUST	CAPTIVEAIRE	DU180HFA	DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN	ROOF CURB	3,170	1.75	DIRECT	3.0 HP	--	1,397	208 / 3 / 60 9.5 FLA 15.0 MOCP	228	B

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. AMCA CERTIFIED AND UL OR ETL LISTED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (ROOF CURBS, HANGING RODS, MOUNTING KIT, ETC.). ROOF CURBS SHALL BE INSULATED. PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. PROVIDE FLEXIBLE DUCT CONNECTIONS.
4. PROVIDE WITH INTEGRAL SPEED CONTROLLER LOCATED ON MOTOR.
5. PROVIDE WITH INTEGRAL ELECTRICAL DISCONNECT SWITCH.
6. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
7. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD DAMPER AND ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
8. PROVIDE WITH BACNET INTERFACE TO CONNECT TO THE BAS.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH ROOF CURB.
B. REFER TO CAPTIVEAIRE DRAWINGS.
C. PROVIDE WITH STANDARD CEILING GRILLE.
D. PROVIDE WITH ROOF CAP.
E. INTERLOCK WITH ROOM LIGHTING. COORDINATE WITH ELECTRICAL CONTRACTOR.

MINIMUM DUCT LEAKAGE CLASSIFICATION SCHEDULE

SEAL CLASS	APPLICABLE SEALING	LEAKAGE CLASS RECTANGULAR DUCT	LEAKAGE CLASS ROUND DUCT
C	TRAVERSE JOINTS ONLY	24	12
B	TRAVERSE JOINTS AND SEAMS	12	6
A	JOINTS, SEAMS, AND ALL WALL PENETRATIONS	6	3

SMACNA DUCT CLASSIFICATION SCHEDULE

DESCRIPTION	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS
BETWEEN AHU & TERMINAL UNIT			
SUPPLY AIR - RECTANGULAR	+ 4"	**	**
SUPPLY AIR - ROUND	+ 4"	**	**
SUPPLY AIR - FLAT OVAL	+ 4"	**	**
SUPPLY AIR - FLEXIBLE	+4"	---	---
BETWEEN TERMINAL UNIT & DIFFUSER			
SUPPLY AIR - RECTANGULAR	+ 2"	**	**
SUPPLY AIR - ROUND	+ 2"	**	**
SUPPLY AIR - FLEXIBLE	+ 2"	---	---
BETWEEN AHU & DIFFUSER			
SUPPLY AIR - RECTANGULAR	+ 2"	**	**
SUPPLY AIR - ROUND	+ 2"	**	**
SUPPLY AIR - FLEXIBLE	+ 2"	---	---
RETURN / EXHAUST - RECTANGULAR	- 2"	**	**
RETURN / EXHAUST - ROUND	- 2"	**	**
RETURN / EXHAUST - FLEXIBLE	- 2"	---	---
GENERAL EXHAUST / OUTSIDE AIR			
RECTANGULAR	+/- 2"	**	**
ROUND	+/- 2"	**	**
FLEXIBLE	+/- 2"	---	---

** REFER TO MINIMUM DUCT SEAL AND LEAKAGE CLASSIFICATION SCHEDULES.

MINIMUM DUCT SEAL CLASSIFICATION SCHEDULE

PRESSURE CLASS	SUPPLY OUTDOORS	SUPPLY UNCONDITIONED SPACES	SUPPLY CONDITIONED SPACES	RETURN OUTDOORS	RETURN UNCONDITIONED SPACES	RETURN CONDITIONED SPACES	EXHAUST OUTDOORS	EXHAUST UNCONDITIONED SPACES	EXHAUST CONDITIONED SPACES
+/- 2"	A	C	C	A	C	C	C	C	C
+/- 4"	A	A	A	A	A	A	C	A	A

NOTE: THIS SCHEDULE STATES MINIMUM STANDARD REQUIREMENTS. MEET SPECIFIC REQUIRMENTS WHERE SPECIFIED ON SMACNA DUCT CLASSIFICATION SCHEDULE.

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FAN COIL UNIT SCHEDULE

MARK	QTY	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNT / CONFIG.	NOMINAL TONS	AIRFLOW TYPE	AIRFLOW CFM	FAN ESP (IN. WG.)	FAN MOTOR (HP)	COOLING TC (MBH)	COOLING SC (MBH)	COOLING EAT (°F DB/WB)	COOLING LAT (°F DB/WB)	COOLING WATER GPM	COOLING WATER ROWS	COOLING WATER WPD (FT. WG.)	COOLING WATER EWT (°F)	COOLING WATER LWT (°F)	HEATING TC (MBH)	HEATING EAT (°F DB)	HEATING LAT (°F DB)	HEATING WATER GPM	HEATING WATER ROWS	HEATING WATER WPD (FT. WG.)	HEATING WATER EWT (°F)	HEATING WATER LWT (°F)	FILTER	ELECTRICAL	WEIGHT (LB.)	NOTES
FCU-A	39	IEC	CBY04	HORIZONTAL TELESCOPING HIDEAWAY 4-PIPE FAN COIL UNIT	CEILING RECESSED	0.75	SUPPLY	300	0.25	0.17	7.6	6.0	74.9 / 63.0	55.6 / 53.8	1.3	3	5.2	42.0	54.0	5.7	70.0	88.4	0.4	1	0.2	140.0	110.0	1" MERV 8	115 / 1 / 60 2.1 FLA 15.0 MOCP	140	A
FCU-B	3	IEC	CBY06	HORIZONTAL TELESCOPING HIDEAWAY 4-PIPE FAN COIL UNIT	CEILING RECESSED	1.0	SUPPLY	400	0.25	0.17	11.1	8.6	74.9 / 63.0	54.0 / 52.8	1.8	4	2.8	42.0	54.0	8.2	70.0	89.8	0.5	1	0.4	140.0	110.0	1" MERV 8	115 / 1 / 60 1.9 FLA 15.0 MOCP	158	A
FCU-C	2	IEC	CBY06	HORIZONTAL TELESCOPING HIDEAWAY 4-PIPE FAN COIL UNIT	CEILING RECESSED	1.25	SUPPLY	500	0.25	0.17	13.5	10.5	74.9 / 63.0	54.5 / 53.1	2.3	4	3.7	42.0	54.0	9.4	70.0	88.0	0.6	1	0.5	140.0	110.0	1" MERV 8	115 / 1 / 60 1.9 FLA 15.0 MOCP	158	A
FCU-D	5	IEC	CBY08	HORIZONTAL TELESCOPING HIDEAWAY 4-PIPE FAN COIL UNIT	CEILING RECESSED	1.25	SUPPLY	600	0.25	0.17	13.9	11.3	74.9 / 63.0	55.6 / 54.6	2.3	3	3.2	42.0	54.0	11.9	70.0	89.3	0.8	1	0.9	140.0	110.0	1" MERV 8	115 / 1 / 60 2.4 FLA 15.0 MOCP	163	A
FCU-E	1	IEC	FHA10	VERTICAL HIDEAWAY 4-PIPE FAN COIL UNIT	FLOOR MOUNTED	1.50	SUPPLY	600	0.25	0.17	16.5	13.3	75.0 / 63.0	54.9 / 53.6	2.7	4	1.2	42.0	54.0	14.4	70.0	92.3	1.0	1	1.5	140.0	110.0	1" MERV 8	115 / 1 / 60 3.9 FLA 15.0 MOCP	117	

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGING RODS, FLOOR STANDS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. PROVIDE WITH INTEGRAL ELECTRICAL DISCONNECT SWITCH.
4. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
5. CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE TO NEAREST APPROVED RECEPTOR PER PLANS OR AS OTHERWISE REQUIRED BY THE AHJ. REFER TO TRAP DETAIL.
6. PROVIDE WITH STAINLESS STEEL DRAIN PAN.
7. PROVIDE WITH CONDENSATE OVERFLOW SWITCH TO SHUT DOWN SYSTEM IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
8. FOR CHILLED WATER AND HEATING WATER COILS, PROVIDE WITH FACTORY INSTALLED HOSE KIT PIPING PACKAGE INCLUDING UNIONS, STRAINER, ISOLATION VALVES, FLOW CONTROL VALVE SIZED FOR DESIGN WATER FLOW, AUTOMATIC AIR VENTS, DRAIN VALVE, AND TEST PORTS.
9. 2-WAY (OR 3-WAY, REFER TO DRAWINGS) CHILLED WATER COIL CONTROL VALVE AND ACTUATOR PROVIDED BY ATC CONTRACTOR.
10. 2-WAY (OR 3-WAY, REFER TO DRAWINGS) HEATING WATER COIL CONTROL VALVE AND ACTUATOR PROVIDED BY ATC CONTRACTOR.
11. THERMOSTAT PROVIDED BY ATC CONTRACTOR.
12. PROVIDE WITH ECM MOTORS FOR PROPORTIONAL AIRFLOW CONTROL.
13. PROVIDE WITH FACTORY MOUNTED DDC CONTROLS AND BACNET INTERFACE TO CONNECT TO BAS.
14. REFER TO SEQUENCE OF OPERATION.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH RETURN AIR-STAMPED RETURN. COLOR TO BE CHOSEN BY ARCHITECT FROM MANUFACTURER'S STANDARD COLORS.

DX INDOOR UNIT SCHEDULE

MARK	QTY	OUTDOOR UNIT	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNT / CONFIG.	NOMINAL TONS	AIRFLOW TYPE	AIRFLOW CFM	ESP (IN. WG.)	COOLING TC (MBH)	COOLING SC (MBH)	HEATING TYPE	HEATING OUTPUT (MBH)	HEATING EFF.	REFRIGERANT TYPE	FILTER	ELECTRICAL	WEIGHT (LB.)
AC-1	1	CU-1	FRASER-JOHNSTON	JHC24B5AC2SS1	TRADITIONAL HEAT PUMP INDOOR UNIT WITH DX COIL	VERTICAL UPFLOW	2.0	SUPPLY OUTSIDE AIR	830 60	0.50 --	21.4	16.3	HP (@ 47°F) AUX. ELECTRIC	23.4 MBH 4.4 KW	3.2 COP 7.5 HSPF2	R-454B	1" MERV 8	208 / 1 / 60 28.7 MCA 30.0 MOCP	96

GENERAL NOTES:

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGING RODS, FLOOR STANDS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
4. CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE TO NEAREST APPROVED RECEPTOR PER PLANS OR AS OTHERWISE REQUIRED BY THE AHJ. REFER TO TRAP DETAIL.
5. DISCONNECT SWITCH PROVIDED BY ELECTRICAL CONTRACTOR.
6. PROVIDE WITH CONDENSATE OVERFLOW SWITCH TO SHUT DOWN SYSTEM IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
7. PROVIDE AND INSTALL REFRIGERANT PIPING AND NECESSARY COMPONENTS SIZED PER MANUFACTURER'S INSTRUCTIONS. BASE SIZING ON ACTUAL PIPING INSTALLATION LENGTHS AND CONFIGURATION. EXTERIOR INSULATION ON OUTDOOR REFRIGERANT LINES SHALL BE COVERED WITH EMBOSSED ALUMINUM JACKETS.
8. PROVIDE WITH EC MOTOR WITH VARIABLE SPEED SUPPLY FAN.
9. PROVIDE WITH SINGLE SOURCE POWER KIT.
10. PROVIDE WITH ELECTRIC HEATING KIT.
11. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT.
12. PROVIDE WITH FILTER RACK.
13. REFER TO SEQUENCE OF OPERATION.

HEAT PUMP UNIT SCHEDULE

MARK	QTY	BASIS OF DESIGN MANUFACTURER	BASIS OF DESIGN MODEL	DESCRIPTION	NOMINAL TONS	COOLING CAPACITY (MBH)	COOLING EFF.	HEATING CAPACITY (MBH)	HEATING EFF.	REFRIGERANT TYPE	COMPRESSOR	ELECTRICAL	WEIGHT (LB.)
HP-1	1	FRASER-JOHNSTON	XH424E2S11	RESIDENTIAL STYLE HEAT PUMP UNIT	2.0	21.4	14.3 SEER2 11.0 EER2	23.4	3.2 COP 7.5 HSPF2	R-454B	2-STAGE	208 / 1 / 60 13.5 MCA 20.0 MOCP	143

GENERAL NOTES:

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED. REFER TO DETAIL.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING.
3. PROVIDE AND INSTALL REFRIGERANT PIPING AND NECESSARY COMPONENTS SIZED PER MANUFACTURER'S INSTRUCTIONS. BASE SIZING ON ACTUAL PIPING INSTALLATION LENGTHS AND CONFIGURATION. EXTERIOR INSULATION ON OUTDOOR REFRIGERANT LINES SHALL BE COVERED WITH EMBOSSED ALUMINUM JACKETS.
4. ELECTRICAL DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
5. PROVIDE WITH TWO STAGE COOLING AND TWO STAGE HEATING.
6. PROVIDE WITH CRANKCASE HEATER.
7. PROVIDE WITH LOUVERED HAIL GUARDS FOR CONDENSER COILS.

KITCHEN HOOD SCHEDULE

MARK	QTY	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	CAPTURE DIMENSIONS (L x W x H)	HOOD TYPE	DUTY RATING	REQUIRED AIRFLOW (CFM / FT)	AIRFLOW TYPE	AIRFLOW CFM	ELECTRICAL	WEIGHT (LB.)	NOTES
KH-1	1	CAPTIVEAIRE	5424 ND-2	96" x 54" x 24"	TYPE I	HEAVY DUTY	200	EXHAUST	1,585	120 / 1 / 60	756	A,B
KH-2	1	CAPTIVEAIRE	5424 ND-2	96" x 54" x 24"	TYPE I	HEAVY DUTY	200	EXHAUST	1,585	120 / 1 / 60	756	A,B

GENERAL NOTES:

1. FOR EXHAUST HOOD MANUFACTURER'S REFERENCE INFORMATION, REFER TO CAPTIVEAIRE HOOD DETAIL SHEETS.
2. TYPE I HOODS - GREASE EXHAUST:
   A. HOODS SHALL BE DESIGNED AND MANUFACTURED IN COMPLIANCE WITH NFPA 96 AND BE UL OR ETL TESTED, LISTED, AND LABELED. THE MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED EXHAUST HOOD TESTING AND PERMITS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
   B. HOODS SHALL BE PROVIDED WITH INTEGRAL DRIP TRAY, LIGHTS, STAINLESS STEEL U.L. LISTED GREASE FILTERS, PRE-WIRED CONTROL PANEL, ROOM TEMPERATURE SENSOR, STAINLESS STEEL ENCLOSURE PANELS UP TO CEILING, AND FACTORY-INSTALLED INSULATED STANDOFFS (AS REQUIRED).
   C. HOODS SHALL BE PROVIDED WITH BACKSPLASHES AND SIDESPLASHES AS APPLICABLE. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS.
   D. HOODS SHALL BE FURNISHED WITH DUCT TEMPERATURE SENSOR FOR AUTOMATIC HOOD EXHAUST FAN ACTIVATION. MECHANICAL CONTRACTOR TO INSTALL ROOM TEMPERATURE SENSOR AND PROVIDE AND TERMINATE LOW VOLTAGE WIRING BETWEEN SENSOR AND HOOD CONTROL PANEL. REF PLANS FOR SENSOR LOCATION AND MANUFACTURER'S WIRING DIAGRAMS.
   E. FIRE SUPPRESSIONS SYSTEMS:
      a. FIRE SUPPRESSION SYSTEMS SHALL BE DESIGNED AND MANUFACTURED IN COMPLIANCE WITH NFPA 17A AND NFPA 96. FIRE SUPPRESSION SYSTEMS SHALL BE TESTED AND LISTED IN ACCORDANCE WITH UL 300. THE HOOD VENDOR SHALL BE RESPONSIBLE FOR ALL REQUIRED FIRE SUPPRESSION SYSTEM ACTIVATION, TESTING, AND PERMITS.
      b. FIRE SUPPRESSION SYSTEM FOR HOOD SHALL BE ANSUL WET CHEMICAL TYPE FIRE EXTINGUISHING SYSTEM CONTAINED IN A STAINLESS STEEL COMPARTMENT LOCATED AT END OF HOOD OR AS OTHERWISE SHOWN ON PLANS.
      c. ANSUL COMPARTMENT CONTROLS SHALL BE INTERLOCKED TO SHUT DOWN THE MECHANICAL UNIT(S) SERVING THE SPACE UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.
      d. UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, THE HOOD EXHAUST FAN SHALL CONTINUE TO RUN.

NOTES:

A. HOOD SWITCH SHALL ENERGIZE EXHAUST FAN.
B. HOOD SWITCH SHALL DRIVE VAV-2-2 TO MAXIMUM AIRFLOW.

GRAVITY VENTILATOR SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	SIZE	MAX. FLOW (CFM)	MAX. PD (IN. WC.)	THROAT (SF)	VELOCITY (FPM)	WEIGHT (LB.)
GV-1	2	EXHAUST AIR	GREENHECK	GRSR	SPUN ALUMINUM AIR RELIEF ROOF VENTILATOR	8	75	0.005	0.37	203	7

GENERAL NOTES:

1. PROVIDE WITH ROOF CURB.
2. PROVIDE WITH BIRD SCREEN.
3. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.

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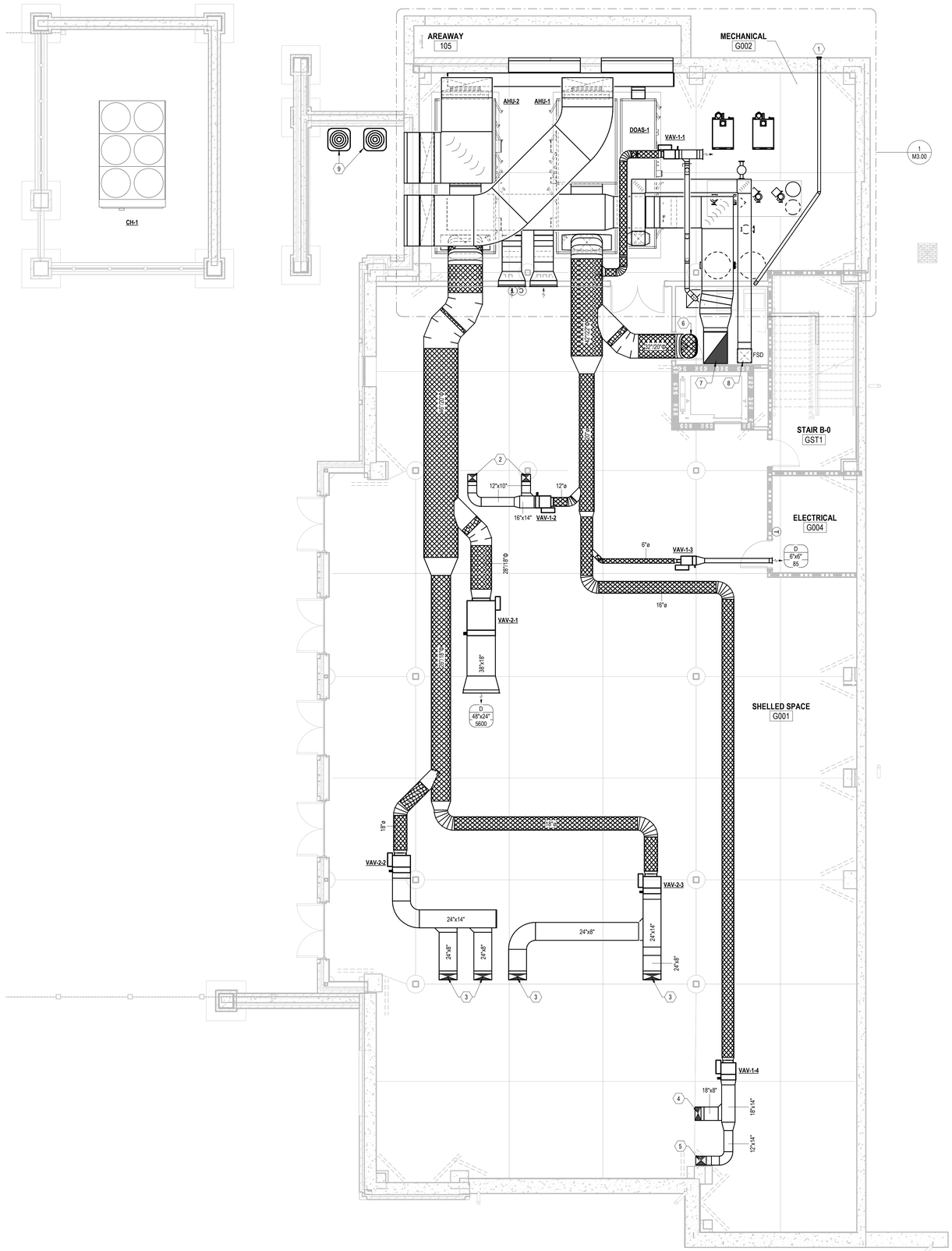

 # PLAN NOTES:

1. 4" DRYER VENT. TERMINATE WITH VENT CAP.
2. 12"/10" SUPPLY DUCT UP TO FLOOR ABOVE.
3. 24"/8" SUPPLY DUCT UP TO FLOOR ABOVE.
4. 18"/8" SUPPLY DUCT UP TO FLOOR ABOVE.
5. 12"/14" SUPPLY DUCT UP TO FLOOR ABOVE.
6. 32"/20" OVAL SUPPLY DUCT UP TO FLOOR ABOVE.
7. 42"/32" RETURN DUCT UP TO FLOOR ABOVE.
8. 18"/18" OUTSIDE AIR DUCT UP TO FLOOR ABOVE WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL.
9. CONDENSING UNITS FOR WALK-IN COOLER AND FREEZER PROVIDED AND INSTALLED BY KITCHEN EQUIPMENT CONTRACTOR.

GENERAL NOTES:

1. FIRE DAMPERS NOT REQUIRED AT PENETRATIONS OF 1 HOUR RATED FIRE PARTITIONS PER IMC SECTION 607.5.3 EXCEPTION 4.
2. ALL DUCTWORK IN SHEELED SPACE G001 SHALL BE INSTALLED TIGHT TO STRUCTURE.

1 DUCTWORK PLAN - LOWER LEVEL
3/16" = 1'-0"

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK NOWLIN

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.19.2025
Title MECHANICAL PLAN - DUCTWORK LOWER LEVEL
Sheet No. **M2.00**

Project Name
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GENERAL NOTES:

1. REFER TO DETAIL #12/M5.01 FOR TRANSFER GRILLE BOOTS.
2. REFER TO DETAIL #7/M5.02 FOR TRANSFER DUCTWORK.
3. PROVIDE AND INSTALL REMOTE/CABLE OPERATED BALANCING DAMPERS IN INACCESSIBLE CEILINGS.
4. FIRE DAMPERS NOT REQUIRED AT PENETRATIONS OF 1 HOUR RATED FIRE PARTITIONS PER IMC SECTION 607.5.3 EXCEPTION 4.

(#) PLAN NOTES:

1. CLEANOUT IN KITCHEN HOOD EXHAUST DUCT.
2. 32"/20" OVAL SUPPLY DUCT DOWN TO FLOOR BELOW.
3. 42"/32" RETURN DUCT DOWN TO FLOOR BELOW.
4. 18"/18" OUTSIDE AIR DUCT DOWN TO FLOOR BELOW WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL, AND 16"/16" OUTSIDE AIR DUCT UP TO FLOOR ABOVE.
5. 18" ROUND KITCHEN HOOD EXHAUST DUCT UP TO FLOOR ABOVE.
6. 12"/10" SUPPLY DUCT DOWN TO FLOOR BELOW.
7. 24"/8" SUPPLY DUCT DOWN TO FLOOR BELOW.
8. 18"/8" SUPPLY DUCT DOWN TO FLOOR BELOW.
9. 20"/8" SUPPLY DUCT DOWN TO FLOOR BELOW.
10. 10"/6" SUPPLY DUCT UP TO FLOOR ABOVE WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL.
11. 6"/10" SUPPLY DUCT UP TO FLOOR ABOVE WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL.
12. 10"/10" EXHAUST DUCT UP TO FLOOR ABOVE WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL.
13. 10"/12" OUTSIDE AIR DUCT UP TO FLOOR ABOVE WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL.
14. 4" DRYER VENT. TERMINATE WITH VENT CAP.
15. 8"/8" EXHAUST AIR DUCT UP TO FLOOR ABOVE WITH FIRE/SMOKE DAMPER AT FLOOR LEVEL.
16. INTERLOCK WITH KITCHEN HOOD EXHAUST FAN. REFER TO CONTROL DRAWINGS.
17. A 1-FOOT SECTION OF GRILLE SHALL BE BLANKED OFF.
18. PROVIDE TRANSFER OPENING AS HIGH AS POSSIBLE ON WALL ABOVE CEILING IN LOCATION INDICATED. SIZE AS SHOWN.

1 DUCTWORK PLAN - GROUND FLOOR
3/16" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.19.2025

Title MECHANICAL PLAN - DUCTWORK GROUND FLOOR

Sheet No. **M2.01**

Project Name
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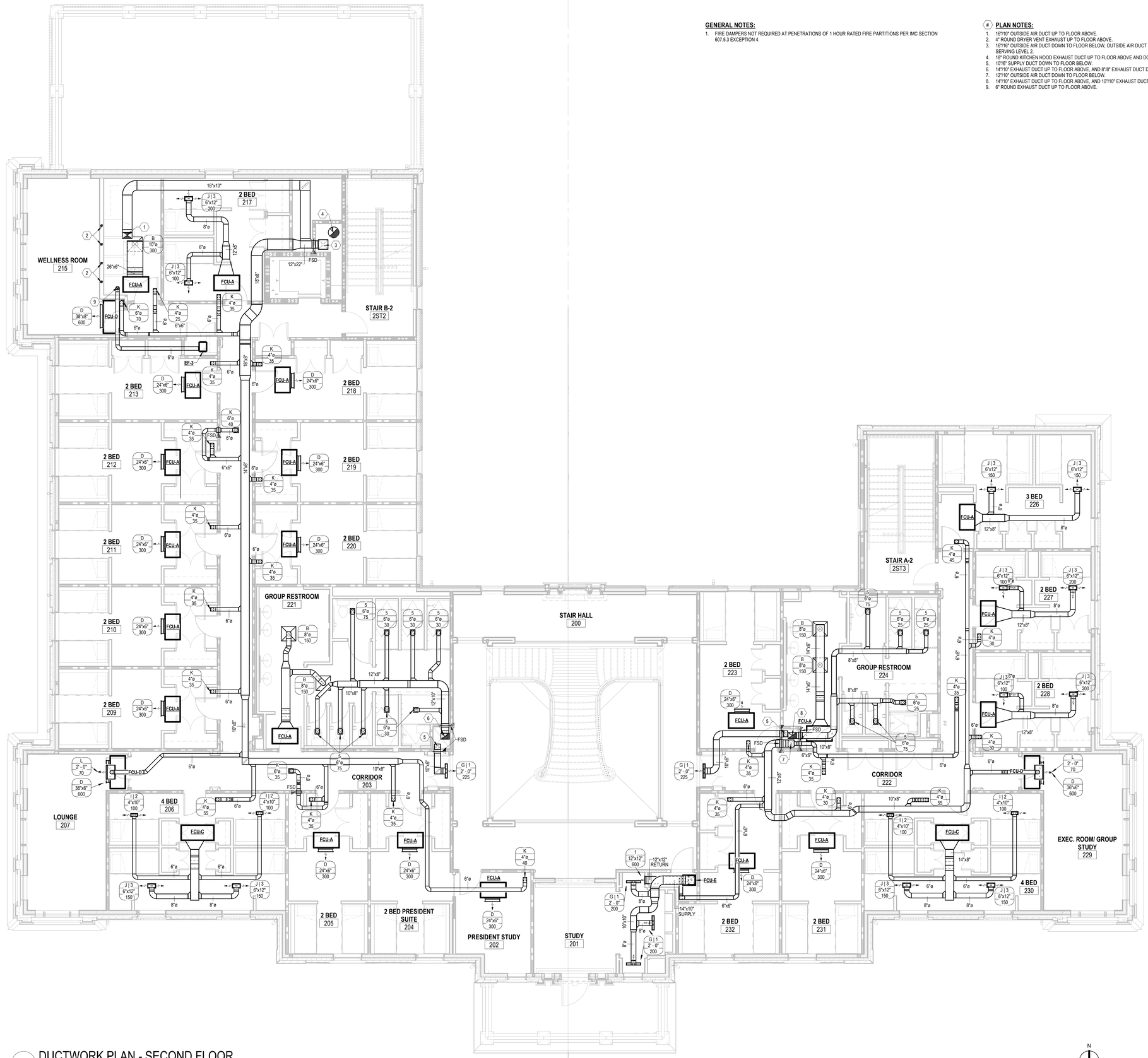
GENERAL NOTES:

1. FIRE DAMPERS NOT REQUIRED AT PENETRATIONS OF 1 HOUR RATED FIRE PARTITIONS PER IMC SECTION 607.5.3 EXCEPTION 4.

(#) PLAN NOTES:

1. 16"/10" OUTSIDE AIR DUCT UP TO FLOOR ABOVE.
2. 4" ROUND DRYER VENT EXHAUST UP TO FLOOR ABOVE.
3. 16"/16" OUTSIDE AIR DUCT DOWN TO FLOOR BELOW. OUTSIDE AIR DUCT SHALL BE CAPPED ON TOP AFTER SERVING LEVEL 2.
4. 18" ROUND KITCHEN HOOD EXHAUST DUCT UP TO FLOOR ABOVE AND DOWN TO FLOOR BELOW.
5. 10"/6" SUPPLY DUCT DOWN TO FLOOR BELOW.
6. 14"/10" EXHAUST DUCT UP TO FLOOR ABOVE, AND 8"/8" EXHAUST DUCT DOWN TO FLOOR BELOW.
7. 12"/10" OUTSIDE AIR DUCT DOWN TO FLOOR BELOW.
8. 14"/10" EXHAUST DUCT UP TO FLOOR ABOVE, AND 10"/10" EXHAUST DUCT DOWN TO FLOOR BELOW.
9. 6" ROUND EXHAUST DUCT UP TO FLOOR ABOVE.



1 DUCTWORK PLAN - SECOND FLOOR
3/16" = 1'-0"

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.16.2025

Title MECHANICAL PLAN - DUCTWORK SECOND FLOOR

Sheet No. **M2.02**

Project Norms
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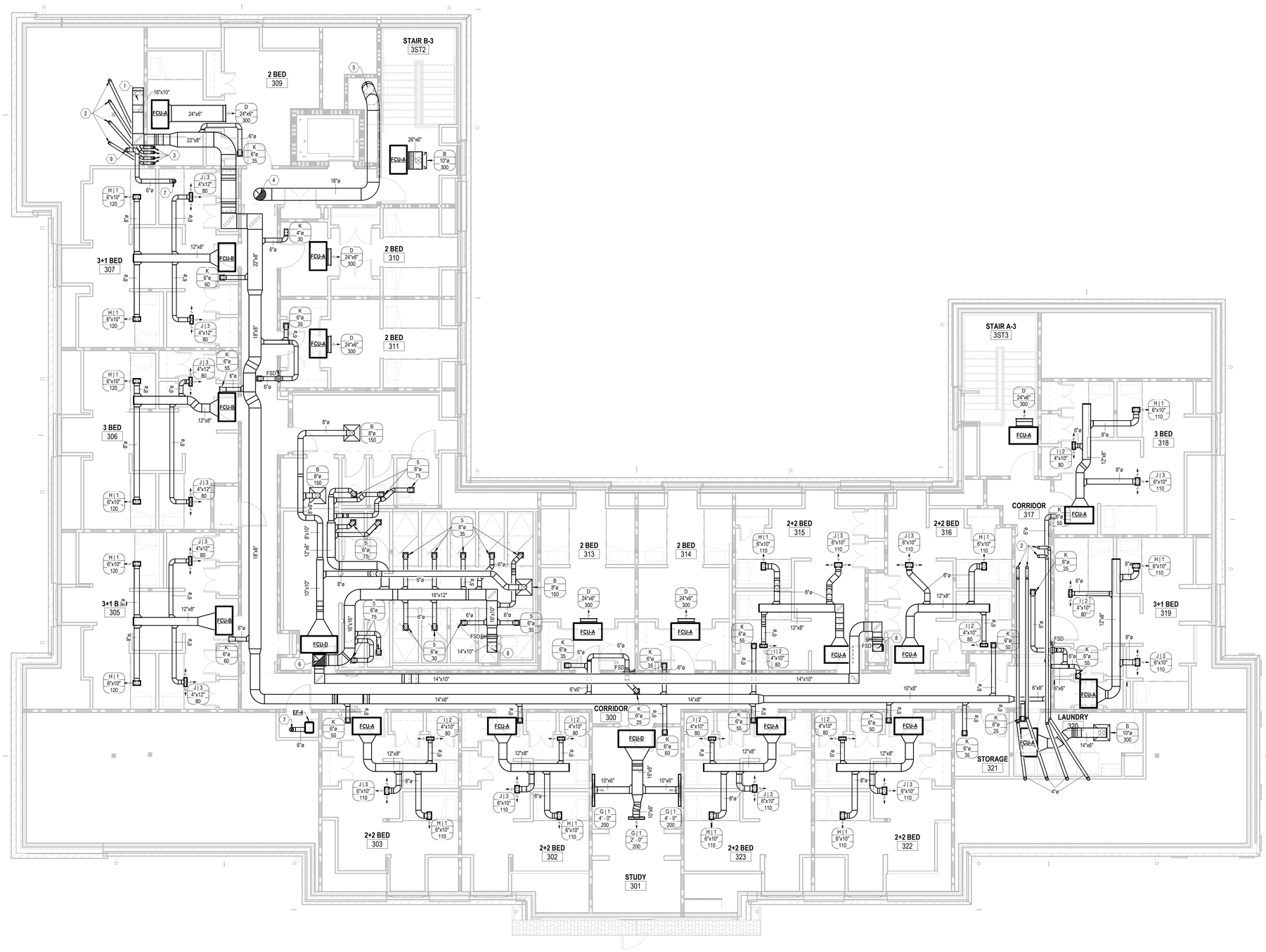
GENERAL NOTES:

1. FIRE DAMPERS NOT REQUIRED AT PENETRATIONS OF 1 HOUR RATED FIRE PARTITIONS PER IMC SECTION 607.5.3 EXCEPTION 4.

PLAN NOTES:

1. 16"/10" OUTSIDE AIR DUCT DOWN TO FLOOR BELOW.
2. 4" DRYER VENT EXHAUST DUCT DOWN TO FLOOR BELOW.
3. 4" DRYER VENT DUCT UP TO ROOF.
4. 18" ROUND KITCHEN HOOD EXHAUST DUCT UP TO ROOF.
5. 18" ROUND KITCHEN HOOD EXHAUST DUCT DOWN TO FLOOR BELOW.
6. 20"/18" EXHAUST DUCT UP TO ROOF.
7. 6" EXHAUST DUCT UP TO ROOF.
8. 14"/10" EXHAUST DUCT DOWN TO FLOOR BELOW.
9. 6" EXHAUST DUCT DOWN TO FLOOR BELOW.



1 DUCTWORK PLAN - THIRD FLOOR

3/16" = 1'-0"

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Project Name
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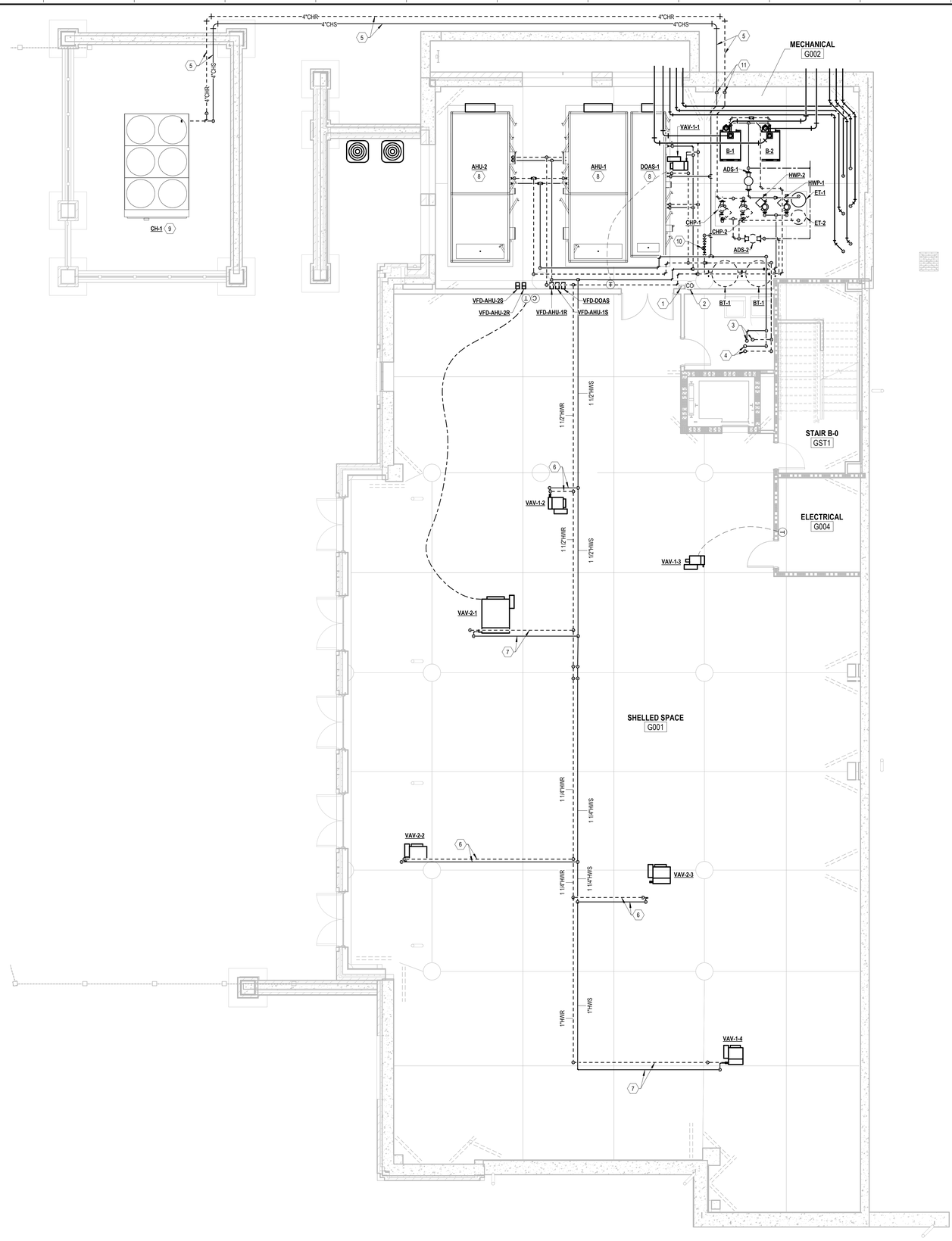
Job No. UAFAPH-21.01

Date 12.16.2025

Title MECHANICAL PLAN - DUCTWORK THIRD FLOOR

Sheet No. **M2.03**



PLAN NOTES:

1. EMERGENCY NATURAL GAS EMERGENCY SHUTOFF SWITCH.
2. CARBON MONOXIDE DETECTOR.
3. 3" CHILLED WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
4. 2-1/2" HEATING WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
5. 4" BELOW GRADE CHILLED WATER SUPPLY AND RETURN PIPING.
6. 3/4" HEATING WATER SUPPLY AND RETURN LINES FOR SUPPLY TERMINAL UNIT.
7. 1" HEATING WATER SUPPLY AND RETURN LINES FOR SUPPLY TERMINAL UNIT.
8. ROUTE 1-1/4" CONDENSATE LINE FROM AHU/DOAS UNITS TO NEAREST FLOOR DRAIN WITH AIR GAP IN MECHANICAL ROOM.
9. INSTALL CHILLER ON CONCRETE PAD. CONCRETE PAD TO BE PROVIDED BY GENERAL CONTRACTOR.
10. CHILLED WATER BYPASS LINE AND CONTROL VALVE.
11. PROVIDE AND INSTALL LINK-SEAL WHERE CHILLED WATER PIPING ENTERS THE MECHANICAL ROOM.

GENERAL NOTES:

1. REFER TO M3.00 FOR ENLARGED VIEW OF THE MECHANICAL ROOM.
2. INSTALL ALL EQUIPMENT IN MECHANICAL ROOM ON HOUSEKEEPING PADS. HOUSEKEEPING PADS TO BE PROVIDED BY GENERAL CONTRACTOR.
3. ROUTE 3/4" CONDENSATE LINE FROM CONDENSING BOILERS AND WATER HEATERS TO NEAREST FLOOR DRAIN IN MECHANICAL ROOM. TERMINATE WITH AIR GAP.
4. PROVIDE AND INSTALL AUTOMATIC AIR VENTS AT HIGH LOCATIONS IN CHILLED WATER AND HEATING WATER PIPING.
5. CHILLED WATER BYPASS PIPING AND CONTROL VALVE LOCATED IN MECHANICAL ROOM.
6. HEATING WATER BYPASS PIPING AND CONTROL VALVE LOCATED ON THIRD FLOOR.

1 MECHANICAL PIPING PLAN - LOWER LEVEL
3/16" = 1'-0"

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Job No. UAFAPH-21.01

Date 12.18.2025

Title MECHANICAL PLAN - PIPING LOWER LEVEL

Sheet No. **M2.10**

Project Name
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GENERAL NOTES:

1. PROVIDE AND INSTALL 3/4" CHILLED WATER SUPPLY AND RETURN PIPING, 3/4" HEATING WATER SUPPLY AND RETURN PIPING, AND 3/4" CONDENSATE PIPING FOR FCU-A.
2. PROVIDE AND INSTALL AUTOMATIC AIR VENTS AT HIGH LOCATIONS IN CHILLED WATER AND HEATING WATER PIPING.
3. ROUTE REFRIGERANT PIPING FROM AC-1 TO HP-1 ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

(#) PLAN NOTES:

1. 3" CHILLED WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW, AND 2-1/2" CHILLED WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
2. 2-1/2" HEATING WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW, AND 2" HEATING WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
3. ISOLATION VALVES.
4. 3/4" HEATING WATER SUPPLY AND RETURN LINES FOR SUPPLY TERMINAL UNIT.
5. 1" HEATING WATER SUPPLY AND RETURN LINES FOR SUPPLY TERMINAL UNIT.
6. 3/4" CONDENSATE LINE UP TO FLOOR ABOVE.
7. ROUTE CONDENSATE LINE TO EXIT BUILDING 1'-0" ABOVE GRADE, RUN DOWN ADJACENT TO DOWNSPOUT AND TERMINATE AT GRATE WITH AIR GAP. CONDENSATE PIPING EXTERIOR TO THE BUILDING SHALL BE UNINSULATED COPPER TO MATCH DOWNSPOUTS.
8. ROUTE CONDENSATE LINE JANITOR'S CLOSET, ROUTE DOWN WALL AND TERMINATE AT MOP SINK WITH AIR GAP.
9. 3/4" CHILLED WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
10. ROUTE 3/4" CONDENSATE LINE FROM AC-1 TO FLOOR DRAIN WITH AIR GAP IN MECHANICAL ROOM.
11. ROUTE CONDENSATE LINE TO MECHANICAL ROOM, ROUTE DOWN WALL AND TERMINATE AT FLOOR DRAIN WITH AIR GAP.
12. ROUTE CONDENSATE LINE TO TERMINATE AT FLOOR DRAIN WITH AIR GAP.
13. REFRIGERANT PIPING BELOW GRADE. ROUTE IN PVC SLEEVE FROM CONDENSING UNIT TO ABOVE RETURN AIR PLENUM (MIN. 3" HEIGHT) TO COIL. SEAL BOTH ENDS OF PVC PIPING WITH FOAM.
14. 1" CONDENSATE LINE UP TO FLOOR ABOVE.
15. BUILDING PRESSURE SENSOR LOCATED IN DINING ROOM CEILING.

1 MECHANICAL PIPING PLAN - GROUND FLOOR

3/16" = 1'-0"

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Job No. UAFAPH-21.01

Date 12.18.2025

Title MECHANICAL PLAN - PIPING GROUND FLOOR

Sheet No. **M2.11**

Project Name
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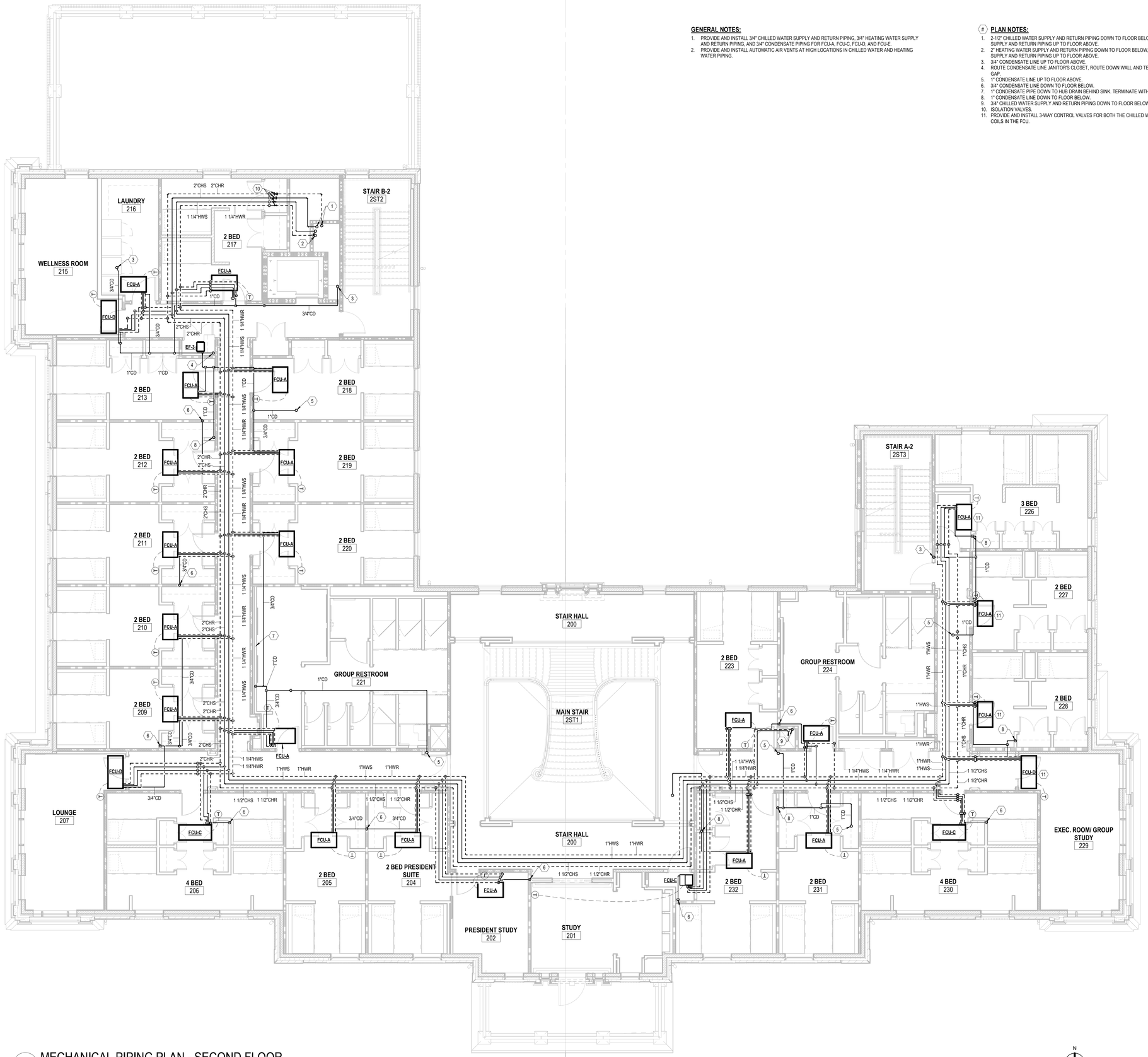

1 MECHANICAL PIPING PLAN - SECOND FLOOR

3/16" = 1'-0"

GENERAL NOTES:

1. PROVIDE AND INSTALL 3/4" CHILLED WATER SUPPLY AND RETURN PIPING, 3/4" HEATING WATER SUPPLY AND RETURN PIPING, AND 3/4" CONDENSATE PIPING FOR FCU-A, FCU-C, FCU-D, AND FCU-E.
2. PROVIDE AND INSTALL AUTOMATIC AIR VENTS AT HIGH LOCATIONS IN CHILLED WATER AND HEATING WATER PIPING.

PLAN NOTES:

1. 2-1/2" CHILLED WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW, AND 2" CHILLED WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
2. 2" HEATING WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW, AND 1-1/2" HEATING WATER SUPPLY AND RETURN PIPING UP TO FLOOR ABOVE.
3. 3/4" CONDENSATE LINE UP TO FLOOR ABOVE.
4. ROUTE CONDENSATE LINE JANITOR'S CLOSET, ROUTE DOWN WALL AND TERMINATE AT MOP SINK WITH AIR GAP.
5. 1" CONDENSATE LINE UP TO FLOOR ABOVE.
6. 3/4" CONDENSATE LINE DOWN TO FLOOR BELOW.
7. 1" CONDENSATE PIPE DOWN TO HUB DRAIN BEHIND SINK. TERMINATE WITH AIR GAP.
8. 1" CONDENSATE LINE DOWN TO FLOOR BELOW.
9. 3/4" CHILLED WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW.
10. ISOLATION VALVES.
11. PROVIDE AND INSTALL 3-WAY CONTROL VALVES FOR BOTH THE CHILLED WATER AND HEATING WATER COILS IN THE FCU.

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No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title MECHANICAL PIPING SECOND FLOOR

Sheet No. **M2.12**

Project Name
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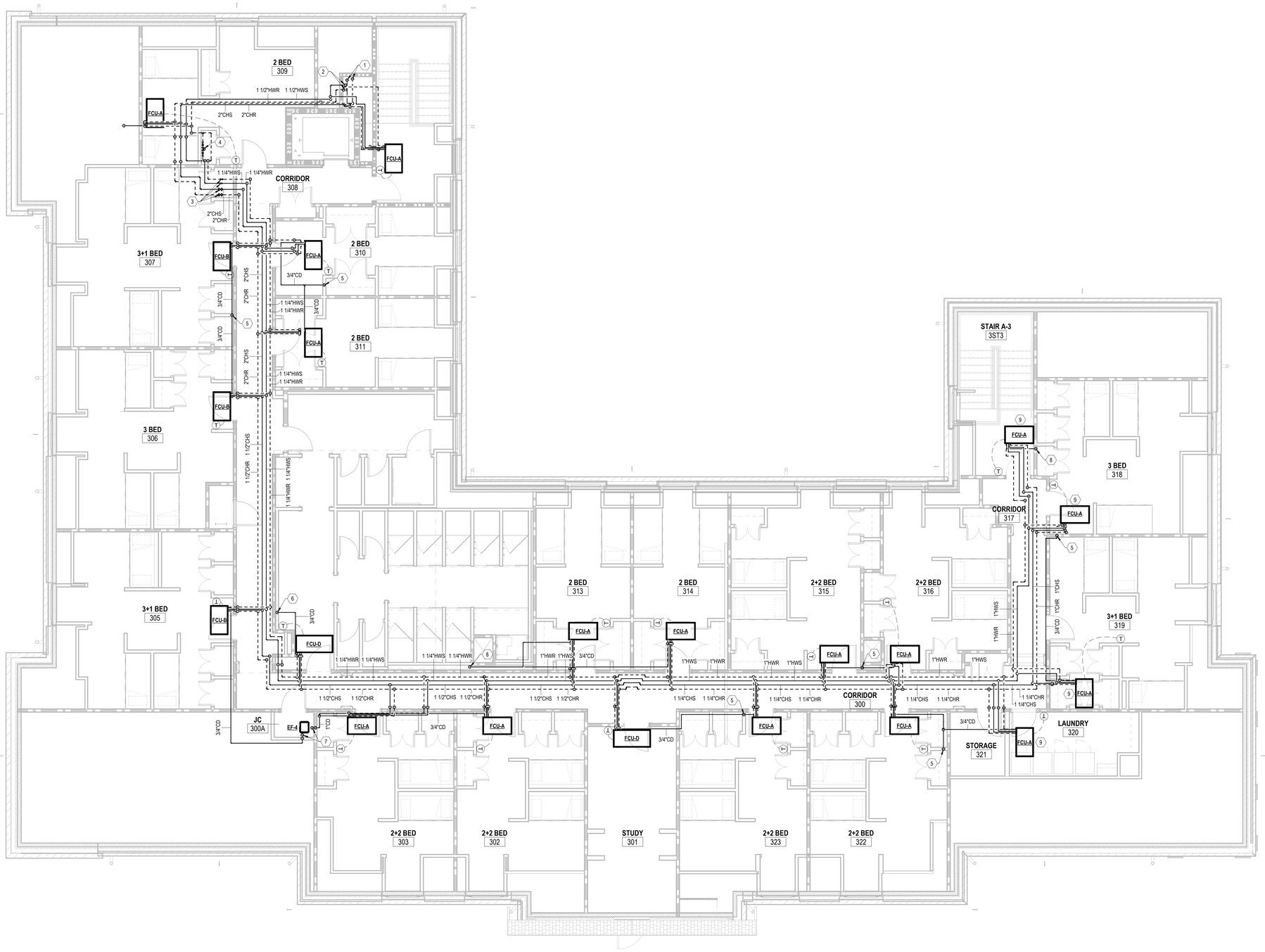
GENERAL NOTES:

1. PROVIDE AND INSTALL 3/4" CHILLED WATER SUPPLY AND RETURN PIPING, 3/4" HEATING WATER SUPPLY AND RETURN PIPING, AND 3/4" CONDENSATE PIPING FOR FCU-A, FCU-D, AND FCU-D.
2. PROVIDE AND INSTALL AUTOMATIC AIR VENTS AT HIGH LOCATIONS IN CHILLED WATER AND HEATING WATER PIPING.

(#) PLAN NOTES:

1. 2" CHILLED WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW.
2. 1-1/2" HEATING WATER SUPPLY AND RETURN PIPING DOWN TO FLOOR BELOW.
3. ISOLATION VALVES.
4. HEATING WATER BYPASS LINE AND CONTROL VALVE.
5. 1" CONDENSATE PIPING DOWN TO FLOOR BELOW.
6. 3/4" CONDENSATE PIPE DOWN TO HUB DRAIN BEHIND SINK. TERMINATE WITH AIR GAP.
7. ROUTE CONDENSATE LINE JANITOR'S CLOSET, ROUTE DOWN WALL AND TERMINATE AT MOP SINK WITH AIR GAP.
8. 3/4" CONDENSATE PIPING DOWN TO FLOOR BELOW.
9. PROVIDE AND INSTALL 3-WAY CONTROL VALVES FOR BOTH THE CHILLED WATER AND HEATING WATER COILS IN THE FCU.



1 MECHANICAL PIPING PLAN - THIRD FLOOR

3/16" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title MECHANICAL PLAN - PIPING THIRD FLOOR

Sheet No. **M2.13**

Project Name
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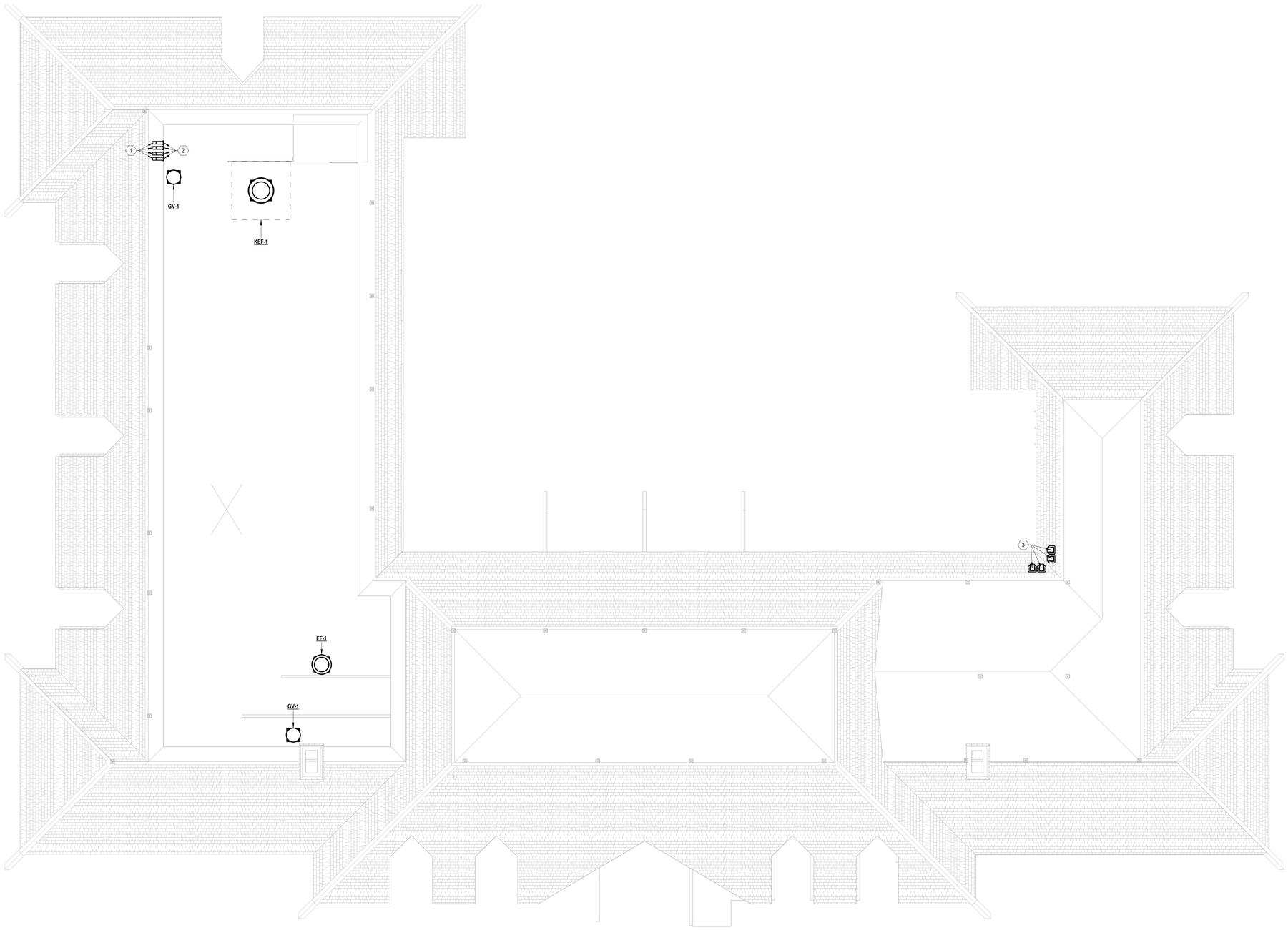
PLAN NOTES:

1. X 4" DRYER VENT EXHAUST DUCT DOWN TO FLOOR BELOW.
2. DRYER VENT WALL CAP.
3. DRYER VENT LOW PROFILE ROOF VENT, DRYER JACK MODEL 477.



1 MECHANICAL ROOF PLAN
3/16" = 1'-0"

N

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MECHANICAL PLAN - ROOF

Sheet No.

M2.20

Project Name
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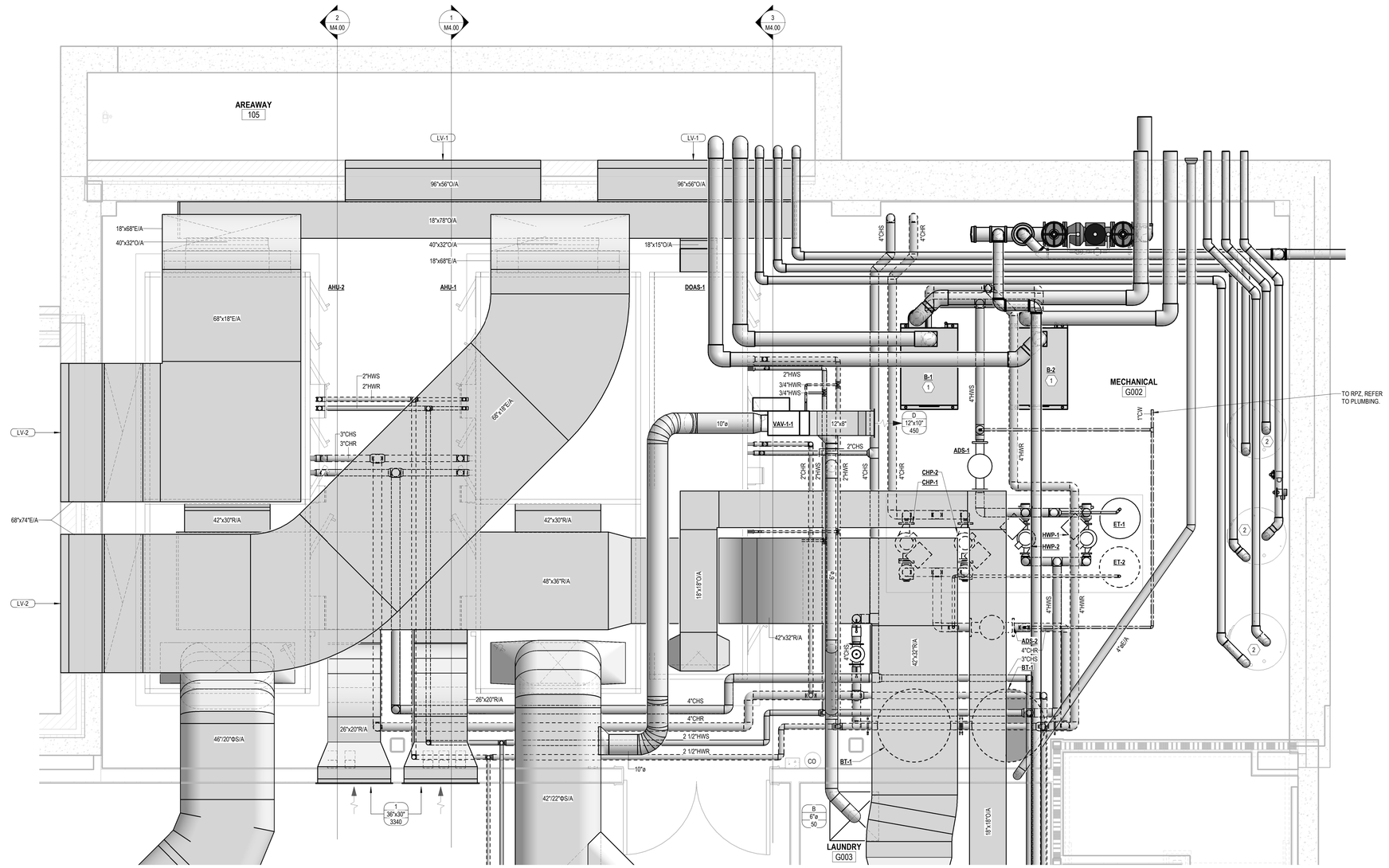
PLAN NOTES:

1. COMBUSTION/VENTING PIPING FOR BOILER. ROUTE TO EXTERIOR WALL AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.
2. COMBUSTION/VENTING PIPING FOR WATER HEATER. ROUTE TO EXTERIOR WALL AND SIZE PER MANUFACTURER'S RECOMMENDATIONS.



1 ENLARGED MECHANICAL ROOM DUCTWORK PLAN

1/2" = 1'-0"

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MECHANICAL ENLARGED PLANS

Sheet No.

M3.00

Project Name
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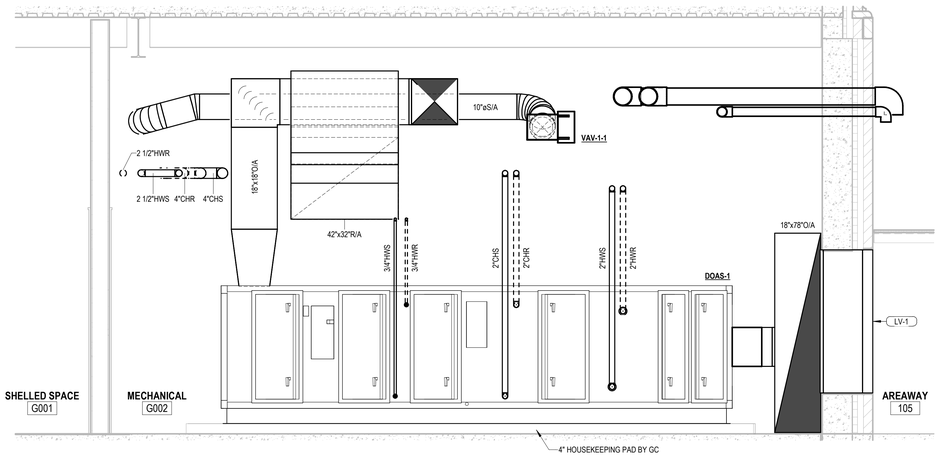
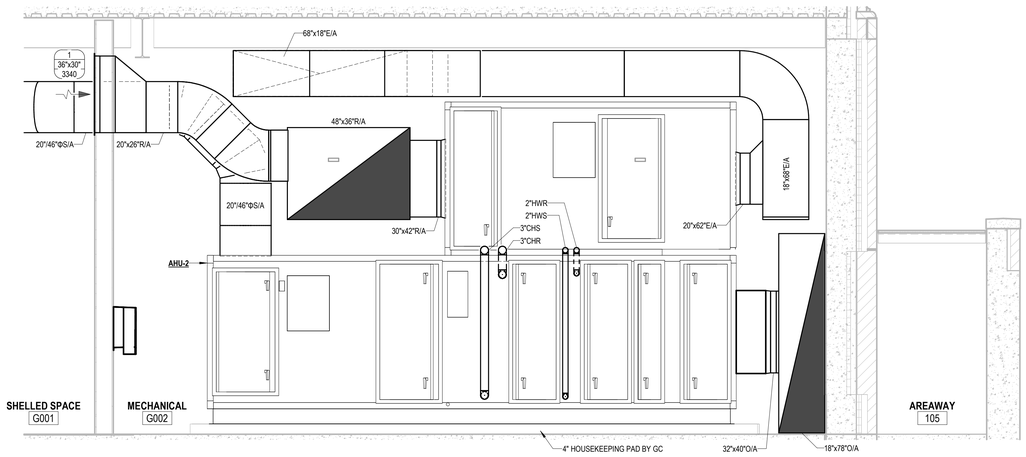
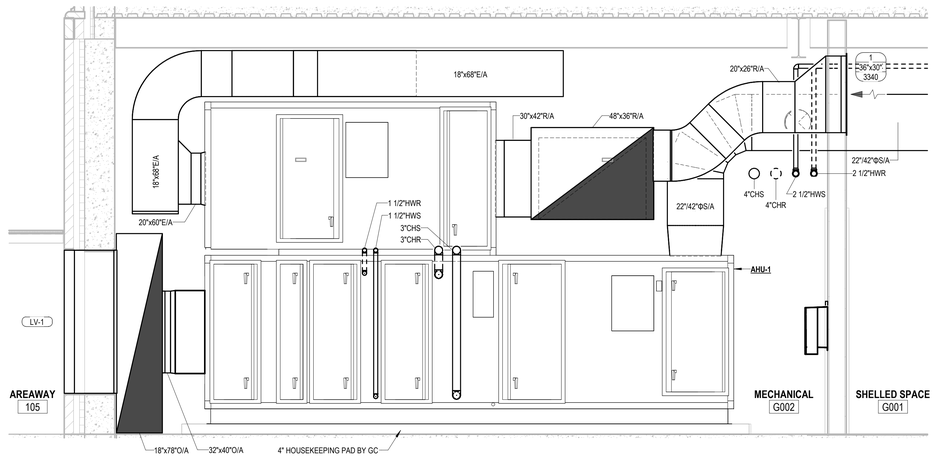


3 SECTION AT DOAS-1
1/2" = 1'-0"



2 SECTION AT AHU-2
1/2" = 1'-0"



1 SECTION AT AHU-1
1/2" = 1'-0"

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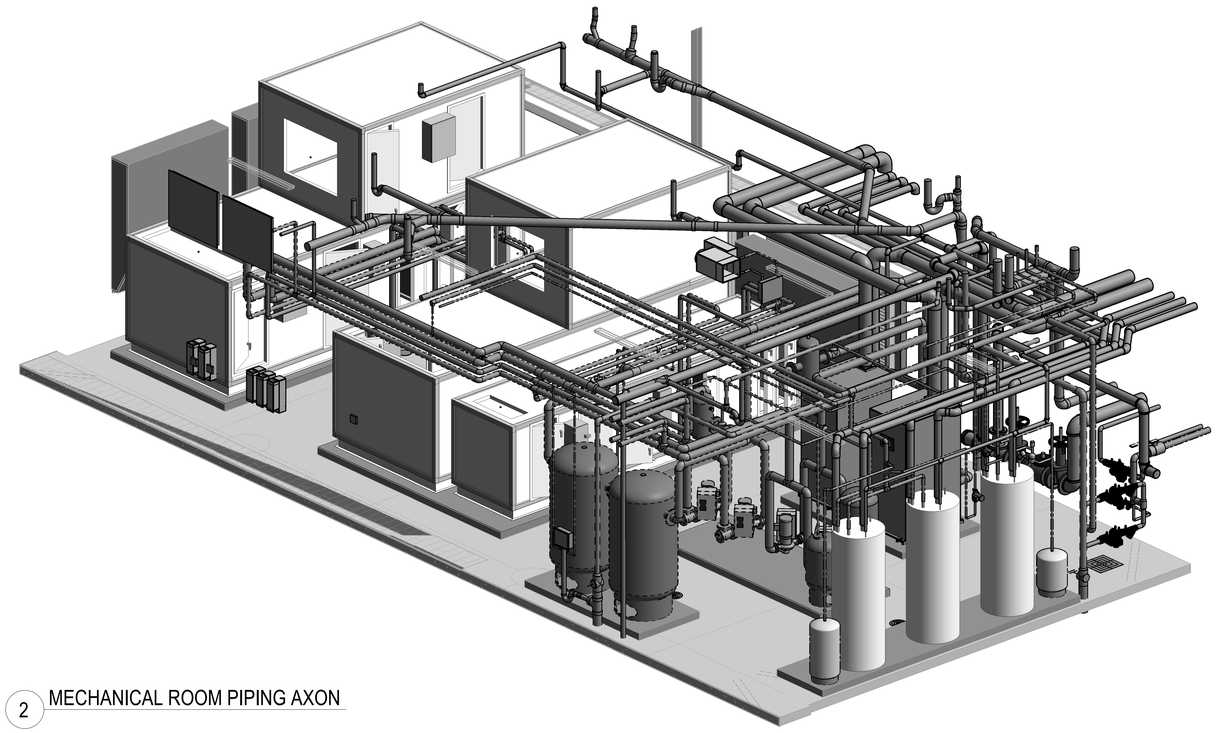
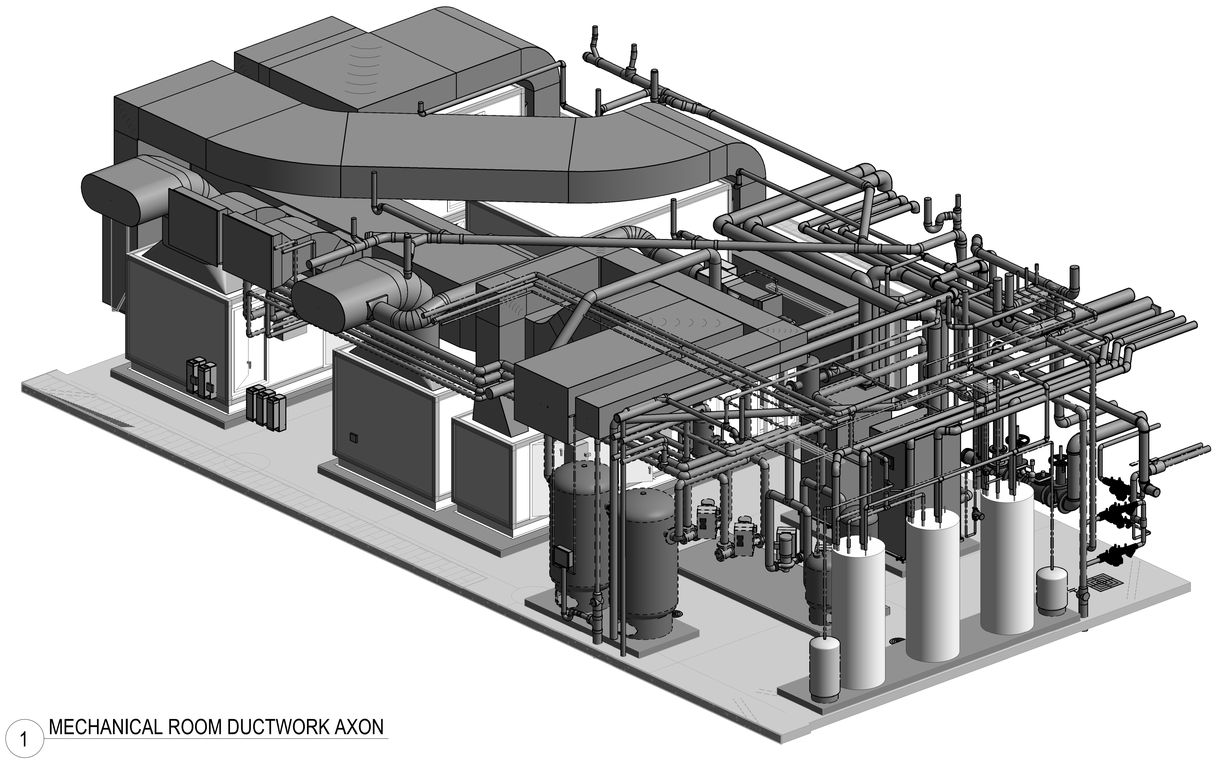
Title MECHANICAL SECTIONS

Sheet No. **M4.00**



2 MECHANICAL ROOM PIPING AXON



1 MECHANICAL ROOM DUCTWORK AXON

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MECHANICAL SECTIONS

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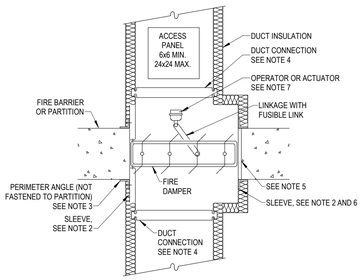
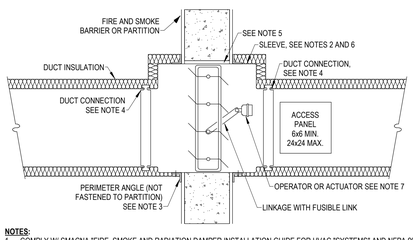


NOTES:

1. COMPLY W/ SMACNA "FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC "SYSTEMS" AND NFPA 90A "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS".
2. GALVANIZED SLEEVE GAGE SHALL NOT BE LESS THAN CONNECTING DUCT FOR BREAKAWAY CONNECTED DUCT. BREAKAWAY DUCT CONNECTION MAY BE OMITTED IF SLEEVE IS 16 GA. MINIMUM.
3. GALVANIZED STEEL PERIMETER ANGLE NOT LESS THAN 1-1/2x1-1/2x14 GAGE WITH 1" MINIMUM OVERLAP ON ALL SIDES.
4. BREAKAWAY DUCT CONNECTION. REFER TO SMACNA FIGURE 2-2 "UL ACCEPTED DUCT-SLEEVE CONNECTIONS" OF FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE. UL TESTED DUCT SEALANT MAY BE USED. BREAKAWAY DUCT CONNECTION MAY BE OMITTED IF SLEEVE IS 16 GA. MINIMUM.
5. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH.
6. FIRE DAMPER SLEEVE TO EXTEND 6" MINIMUM ON EACH SIDE.

12 HORIZONTAL COMBINATION SMOKE & FIRE DAMPER

SCALE: NTS



NOTES:

1. COMPLY W/ SMACNA "FIRE, SMOKE AND RADIATION DAMPER INSTALLATION GUIDE FOR HVAC "SYSTEMS" AND NFPA 90A "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS".
2. GALVANIZED SLEEVE GAGE SHALL NOT BE LESS THAN CONNECTING DUCT FOR BREAKAWAY CONNECTED DUCT. BREAKAWAY DUCT CONNECTION MAY BE OMITTED IF SLEEVE IS 16 GA. MINIMUM.
3. GALVANIZED STEEL PERIMETER ANGLE NOT LESS THAN 1-1/2x1-1/2x14 GAGE WITH 1" MINIMUM OVERLAP ON ALL SIDES.
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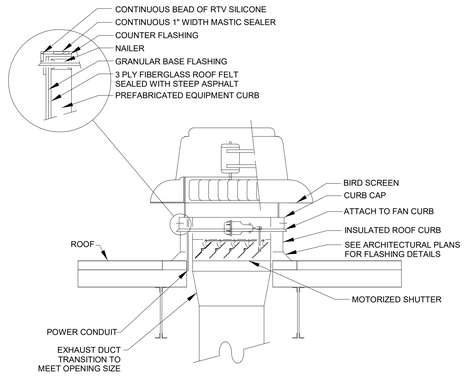
5. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT AND WIDTH.
6. FIRE DAMPER SLEEVE TO EXTEND 6" MINIMUM ON EACH SIDE.

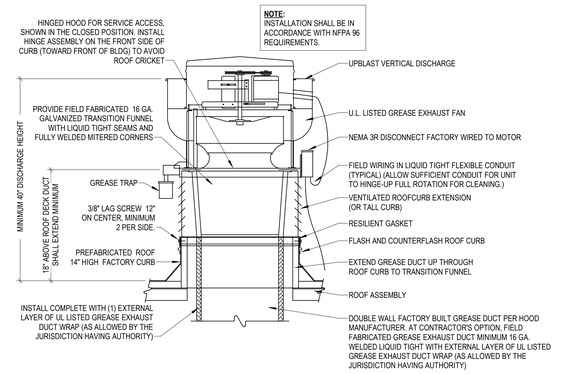
11 VERTICAL COMBINATION SMOKE AND FIRE DAMPER

SCALE: NTS



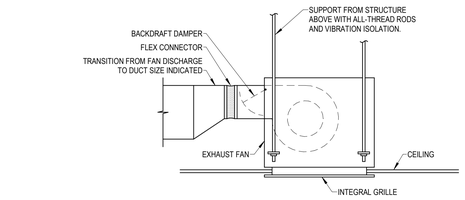
10 ROOFTOP DOWNBLAST EXHAUST FAN DETAIL

SCALE: NTS



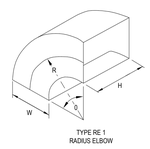
9 GREASE EXHAUST FAN DETAIL

SCALE: NTS



8 CEILING MOUNTED CABINET EXHAUST FAN

SCALE: NTS



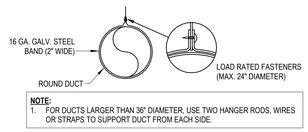
CENTERLINE R = 3W/2 UNLESS OTHERWISE SPECIFIED - NOT RESTRICTED TO 90° ELBOWS.

WHERE AIR VELOCITY IS BELOW 1,000 FPM, R = W/2 MAY BE USED.

SQUARE THROAT ELBOWS MAY NOT BE USED.

7 SMACNA RADIUS ELBOW TYPE RE1 DETAIL

SCALE: NTS

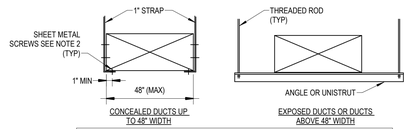


NOTE:

1. FOR DUCTS LARGER THAN 36" DIAMETER, USE TWO HANGER RODS, WIRES OR STRAPS TO SUPPORT DUCT FROM EACH SIDE.

6 ROUND DUCT SUPPORT

SCALE: NTS

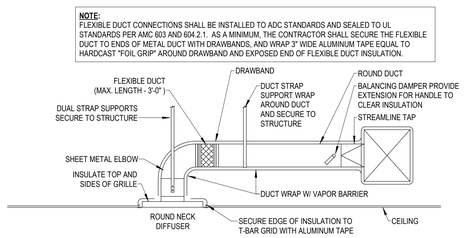


NOTES:

1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 48" DIAMETER WIDE.
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.

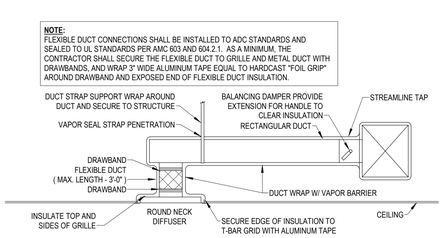
5 RECTANGULAR DUCT SUPPORT

SCALE: NTS



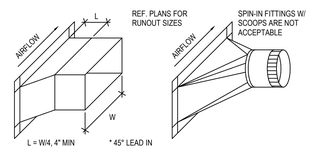
4 ROUND DUCT DIFFUSER CONNECTION

SCALE: NTS



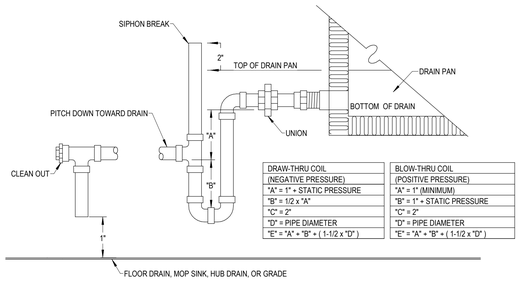
3 RECTANGULAR DUCT GRILLE CONNECTION

SCALE: NTS



2 BRANCH DUCT FITTING

SCALE: NTS



DRAW-THRU COIL (NEGATIVE PRESSURE)	BLOW-THRU COIL (POSITIVE PRESSURE)
"A" = 1" + STATIC PRESSURE	"A" = 1" (MINIMUM)
"B" = 1/2 x "A"	"B" = 1" + STATIC PRESSURE
"C" = 2"	"C" = 2"
"D" = PIPE DIAMETER	"D" = PIPE DIAMETER
"E" = "A" + "B" + (1-1/2 x "D")	"E" = "A" + "B" + (1-1/2 x "D")

1 CONDENSATE TRAP DETAIL

SCALE: NTS

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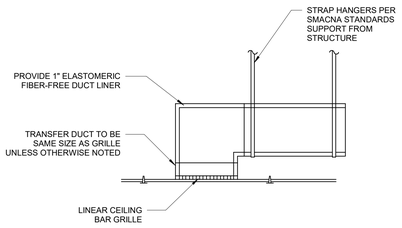
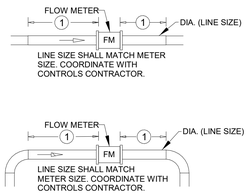


12 CEILING RETURN/TRANSFER GRILLE DETAIL

SCALE: NTS

KEYED NOTES:

1. REFER TO MANUFACTURER'S GUIDELINES FOR LENGTH OF STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF FLOW METER.



11 WATER FLOW METER DETAIL

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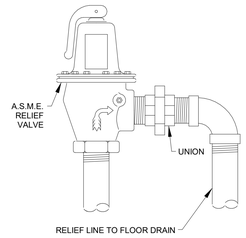
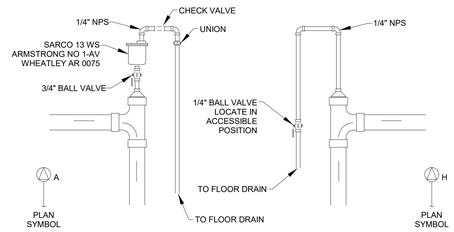


10 WATER RELIEF VALVE PIPING DETAIL

SCALE: NTS



9 AIR ELIMINATOR DETAIL

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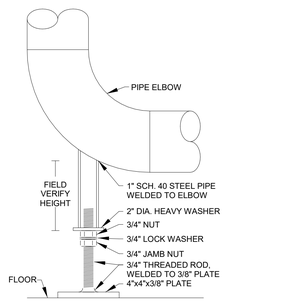

8 PIPE STAND DETAIL

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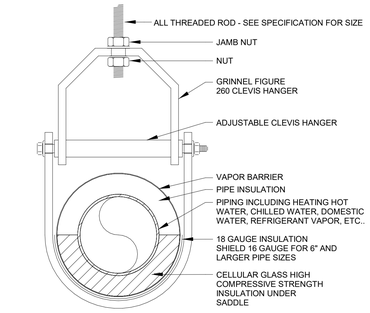

7 CLEVIS HANGER DETAIL

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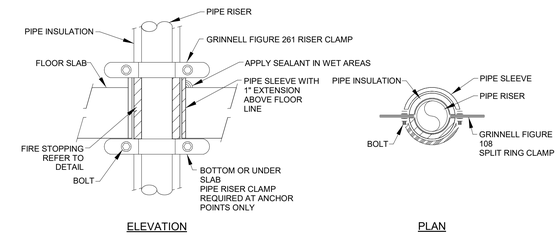

6 PIPE RISER SUPPORT DETAIL

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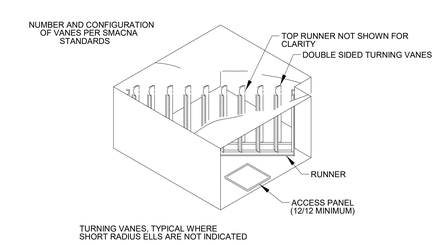
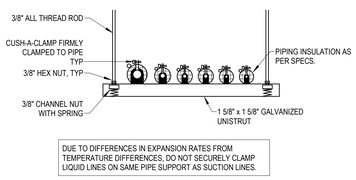


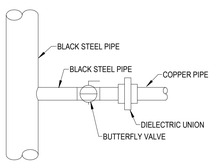
5 TURNING VANE DETAIL

SCALE: NTS



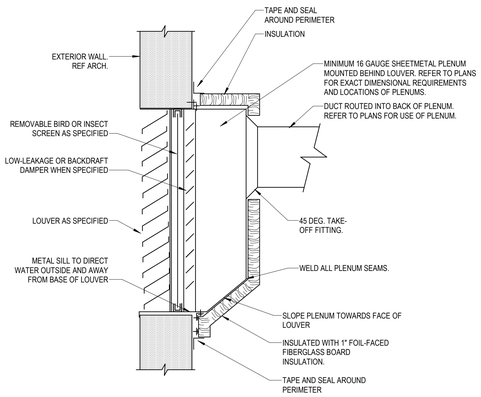
4 REFRIGERANT LINE SUPPORT

SCALE: NTS



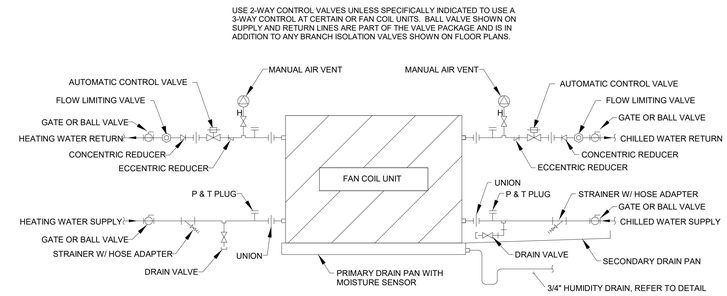
3 INSTALLATION OF DIELECTRIC UNION DETAIL

SCALE: NTS



2 LOUVER CONNECTION DETAIL

SCALE: NTS



1 4-PIPE FAN COIL UNIT PIPING DETAIL

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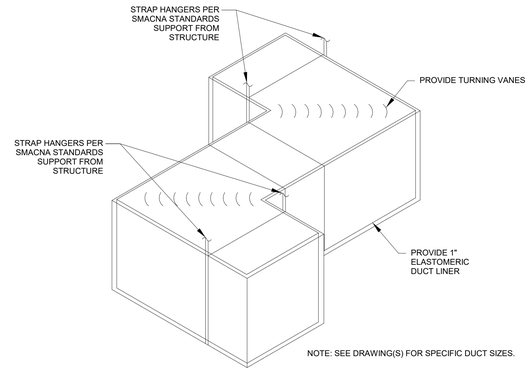
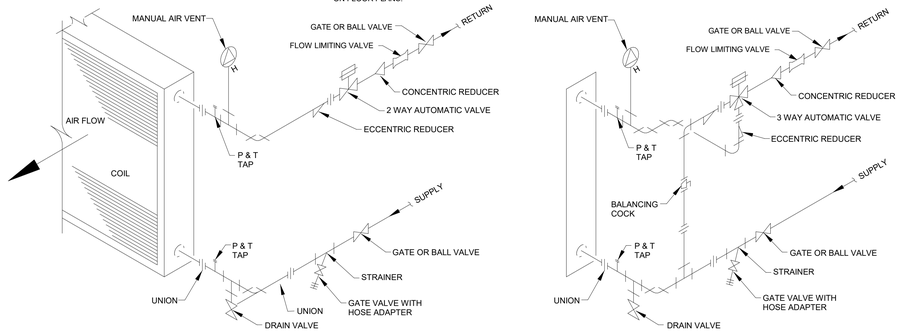


7 RETURN/TRANSFER Z-DUCT DETAIL

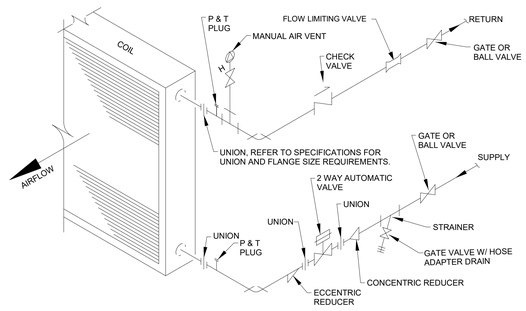
SCALE: NTS

NOTES:
USE 2-WAY CONTROL VALVES UNLESS SPECIFICALLY INDICATED TO USE A 3-WAY CONTROL AT CERTAIN VAV TERMINALS OR FAN COIL UNITS. BALL VALVE SHOWN ON SUPPLY AND RETURN LINES ARE PART OF THE VALVE PACKAGE AND IS IN ADDITION TO ANY BRANCH ISOLATION VALVES SHOWN ON FLOOR PLANS.



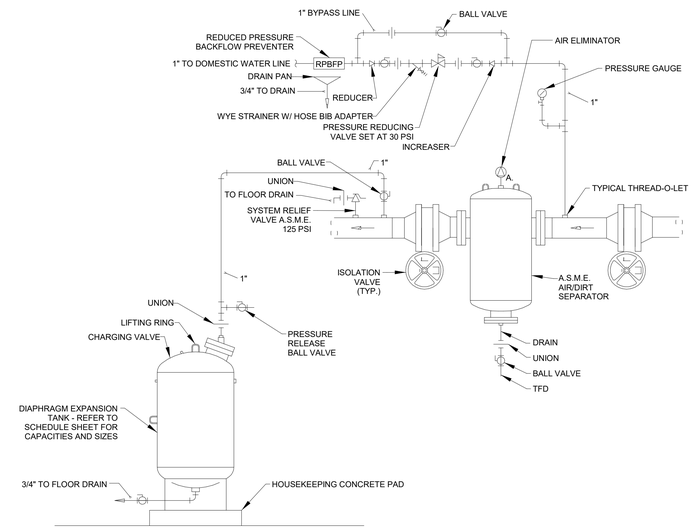
6 CHILLED WATER / HEATING WATER COIL PIPING DIAGRAM

SCALE: NTS



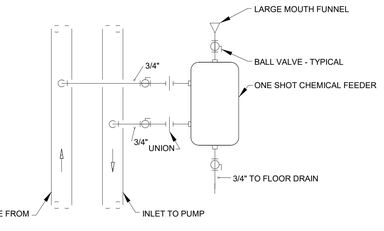
5 PRE-HEAT WATER COIL PIPING DIAGRAM

SCALE: NTS



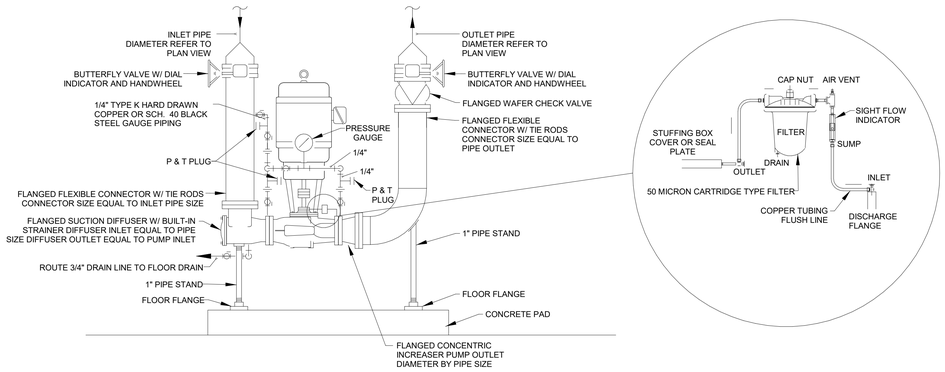
4 AIR CONTROL PIPING DIAGRAM

SCALE: NTS



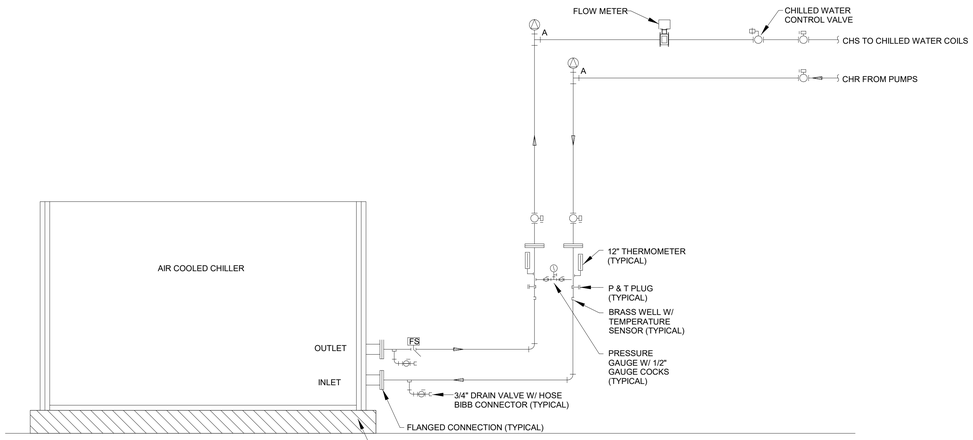
3 CHILLED WATER / HEATING WATER CHEMICAL FEEDER PIPING DETAIL

SCALE: NTS



2 VERTICAL INLINE PUMP DETAIL

SCALE: NTS



1 AIR COOLED CHILLER PIPING DETAIL

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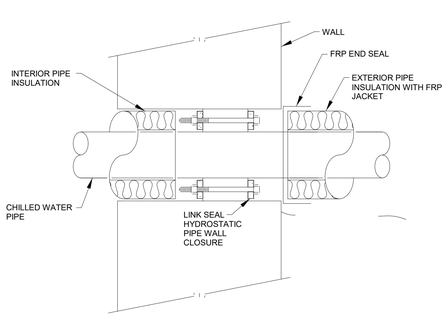
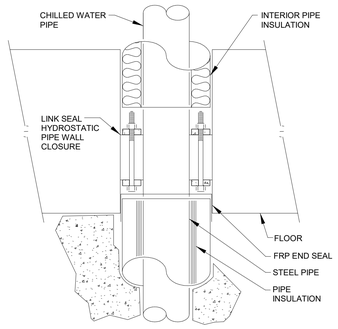
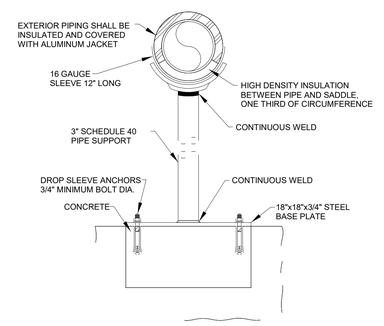




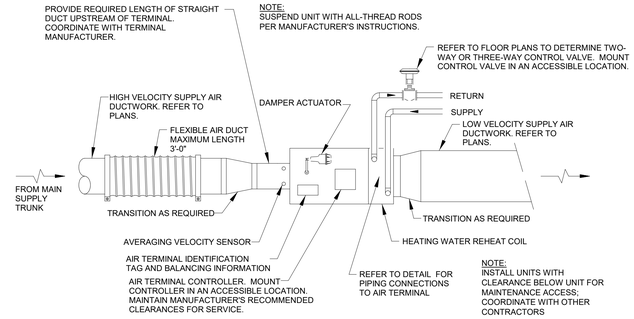
5 LINK SEAL DETAIL

SCALE: NTS



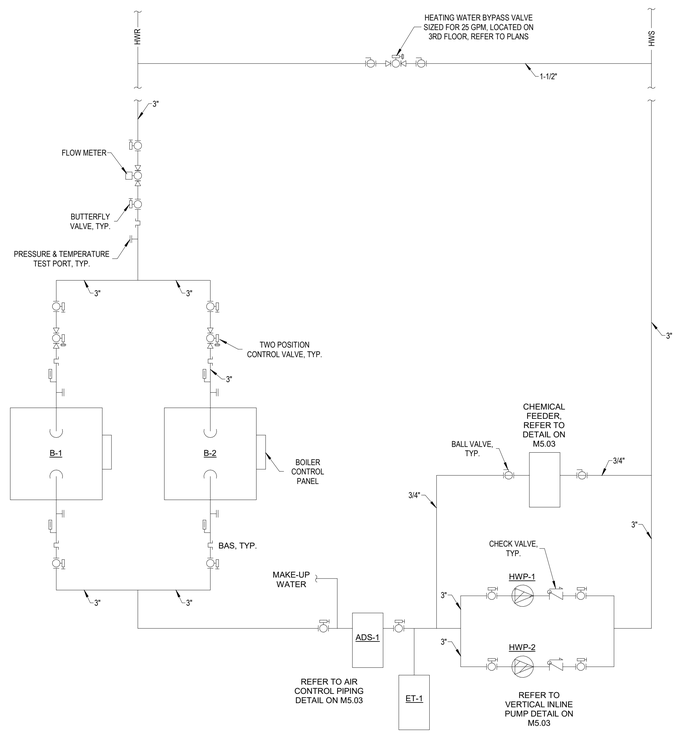
4 PIPE STANCHION DETAIL

SCALE: NTS



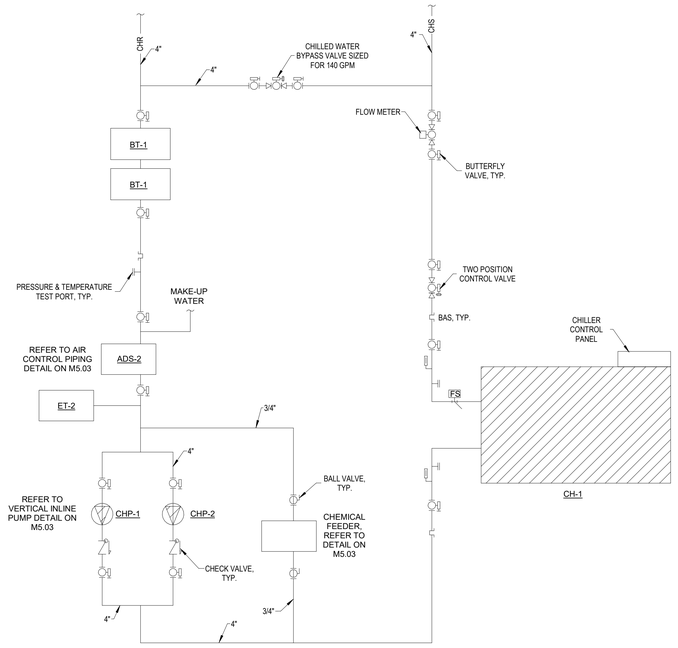
3 VAV BOX WITH HOT WATER RE-HEAT DETAIL

SCALE: NTS



2 HEATING WATER PIPING DIAGRAM

SCALE: NTS



1 CHILLED WATER PIPING DIAGRAM

SCALE: NTS

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LEGEND

- THREE PHASE POWER WIRING; FURNISHED AND INSTALLED BY ELECTRICAL (PWR)
- SINGLE PHASE POWER WIRING; FURNISHED AND INSTALLED BY ELECTRICAL (PWR)
- CONTROL AND INTERLOCK WIRING, FURNISHED AND INSTALLED BY ATC CONTRACTOR (ILK)
- EMS ETHERNET LAN COMMUNICATION WIRING, FURNISHED AND INSTALLED BY ATC CONTRACTOR (EMS LAN)
- EMS SUB-NETWORK COMMUNICATION WIRING, FURNISHED AND INSTALLED BY ATC CONTRACTOR (EMS SN)
- ROOM SENSOR COMMUNICATION WIRING, FURNISHED AND INSTALLED BY ATC CONTRACTOR (EMS RS)
- COMMUNICATION WIRING FOR OTHER HVAC SYSTEMS, FURNISHED AND INSTALLED BY ATC CONTRACTOR (EMS OTH)
- PNEUMATIC CONTROL TUBING, FURNISHED AND INSTALLED BY ATC CONTRACTOR
- CONTROL PIPING, FURNISHED AND INSTALLED BY ATC CONTRACTOR
- LOCAL AREA NETWORK DATA PORT DROP, FURNISHED AND INSTALLED BY ELECTRICAL.
- NC — NORMALLY CLOSED - POWERED OPEN
- NO — NORMALLY OPEN - POWERED CLOSED
- NORMALLY CLOSED - POWERED OPEN RELAY CONTACT
- NORMALLY OPEN - POWERED CLOSED RELAY CONTACT
- TFD — TO FLOOR DRAIN
- (S) — PNEUMATIC CONTROL SUPPLY AIR CONNECTION
- E-PWR — EMERGENCY (ESSENTIAL) ELECTRICAL POWER

GENERAL NOTES APPLICABLE TO ALL CONTROL DIAGRAMS:

1. ALL CONTROL DEVICES SHOWN ON THE CONTROL DIAGRAMS ARE FURNISHED BY THE ATC CONTRACTOR UNLESS OTHERWISE NOTED OR SPECIFIED.
2. ALL COMPONENTS REQUIRED FOR THE SEQUENCES OF OPERATION, SHOWN ON THE CONTROL DIAGRAMS, DESCRIBED IN THE SPECIFICATION, OR AS REQUIRED FOR A PROPERLY OPERATING SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE ATC CONTRACTOR UNLESS OTHERWISE NOTED, SHOWN, OR SPECIFIED.
3. ALL POWER WIRING AND TRANSFORMERS FOR SENSORS, ACTUATORS, AND OTHER CONTROL COMPONENTS AS REQUIRED FOR THE DDC SYSTEMS TO FUNCTION PROPERLY, SHALL BE FURNISHED AND INSTALLED BY THE ATC CONTRACTOR UNLESS OTHERWISE SHOWN, NOTED, OR SPECIFIED.
4. ALL POWER WIRING FOR SENSORS, ACTUATORS, AND OTHER DEVICES SHALL BE FROM THE DDC PANEL OR THE FEP PANEL OF THE ASSOCIATED SYSTEM.
5. ALL CONTROL, INTERLOCK, AND POWER WIRING SHALL BE INSTALLED PER THE ELECTRICAL SPECIFICATION, LOCAL, STATE, AND NATIONAL CODES. RACEWAY SHALL BE INSTALLED PER THE ELECTRICAL SPECIFICATIONS.
6. ALL CONTROL BANDS, SETPOINTS, SETPOINT LIMITS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES, ALARM LIMITS, AND OTHER PARAMETERS SHALL BE ADJUSTABLE.
7. ALL CONTROL BANDS, SETPOINTS, TIME DELAYS, CONTROL LOOPS, AND OTHER PARAMETERS SHALL BE COMMISSIONED BY THE ATC CONTRACTOR TO PROVIDE STABLE CONTROL OF ALL SYSTEMS.
8. SPACE SETPOINTS SHALL BE ADJUSTABLE FROM THE ROOM SENSOR UNLESS OTHERWISE SHOWN ON DRAWINGS OR SPECIFIED.
9. VARIABLE FREQUENCY DRIVES ARE FURNISHED BY THE EQUIPMENT MANUFACTURER, POWERED BY THE ELECTRICAL CONTRACTOR.
10. POWER WIRING (PWR) FROM POWER SOURCE TO VARIABLE FREQUENCY DRIVES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
11. POWER WIRING (PWR) FROM POWER SOURCE TO MOTOR STARTERS AND FROM MOTOR STARTERS TO MOTORS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
12. POWER WIRING (PWR) FROM POWER SOURCE TO DDC, AND FEP PANELS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED ON DRAWINGS.
13. GLOBAL DDC SYSTEM POINTS ARE DEFINED AS A SINGLE POINT USED IN ALL SYSTEMS IN A BUILDING TO MAINTAIN CONSISTENCY OF CONTROL ACTIONS THROUGHOUT THE BUILDING. EXAMPLE: OUTSIDE AIR TEMPERATURE POINT SAMPLED ON THE NORTH SIDE OF A BUILDING USED TO ENABLE/DISABLE AIRSIDE ECONOMIZER OPERATION THROUGHOUT THE BUILDING.
14. ATC CONTRACTOR SHALL PROVIDE ALL CONDUIT AND CABLING ASSOCIATED WITH HVAC CONTROL WIRING.

DIRECT DIGITAL CONTROL POINT TYPES

- AI — DDC SYSTEM ANALOG INPUT POINT TYPE
- G AI — GLOBAL DDC SYSTEM ANALOG INPUT POINT TYPE
- AO — DDC SYSTEM ANALOG OUTPUT POINT TYPE
- G AO — GLOBAL DDC SYSTEM ANALOG OUTPUT POINT TYPE
- DI — DDC SYSTEM DIGITAL OR BINARY INPUT POINT TYPE
- G DI — GLOBAL DDC SYSTEM DIGITAL OR BINARY INPUT POINT TYPE
- DO — DDC SYSTEM DIGITAL OR BINARY OUTPUT POINT TYPE
- G DO — GLOBAL DDC SYSTEM DIGITAL OR BINARY OUTPUT POINT TYPE

ANALOG INPUT SENSORS

- T — DUCT TEMPERATURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- T — OUTSIDE AIR TEMPERATURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- STM P — STEAM PRESSURE SENSOR WITH STEAM SIPHON; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. TAP AND ISOLATION VALVE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
- VAC P — VACUUM PRESSURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. TAP AND ISOLATION VALVE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
- T — ROOM TEMPERATURE SENSOR WITH SETPOINT, OVERRIDE PUSHBUTTON, AND DIGITAL DISPLAY: FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- T — ROOM TEMPERATURE SENSOR WITH SETPOINT, AND OVERRIDE PUSHBUTTON: FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- BSP — BUILDING STATIC PRESSURE SENSOR WITH DIGITAL DISPLAY; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. REFER TO DETAIL F.
- DPS WM — DIFFERENTIAL PRESSURE SENSOR FOR WET MEDIA WITH DIGITAL DISPLAY; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. ISOLATION VALVES AND TAPS IN PIPING BY MECHANICAL CONTRACTOR.
- H — DUCT RELATIVE HUMIDITY SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- T — STRAP ON TEMPERATURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- FM LIQ — LIQUID FLOW METER - FURNISHED AND WIRED BY THE ATC CONTRACTOR. INSTALLED IN PIPING BY MECHANICAL CONTRACTOR
- FM STM — STEAM FLOW METER - FURNISHED AND WIRED BY THE ATC CONTRACTOR. INSTALLED IN PIPING BY MECHANICAL CONTRACTOR
- RPS — ROOM PRESSURE SENSOR: FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- RPM — ROOM PRESSURE MONITOR: FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- T — AVERAGING DUCT TEMPERATURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. REFER TO DETAIL I.
- PIPE TEMPERATURE SENSOR; FURNISHED AND WIRED BY THE ATC CONTRACTOR; THERMAL WELL INSTALLED IN THE PIPING BY THE MECHANICAL CONTRACTOR.
- P — WATER PRESSURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. TAP AND ISOLATION VALVE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.
- GAS P — GAS PRESSURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. TAP AND ISOLATION VALVE FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE PRESSURE REQUIREMENTS.
- H — ROOM HUMIDITY SENSOR WITH DIGITAL DISPLAY; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- H — ROOM HUMIDITY SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- DSP — DUCT STATIC PRESSURE SENSOR WITH DIGITAL DISPLAY; FURNISHED, INSTALLED AND WIRED BY ATC CONTRACTOR.
- DPS — DIFFERENTIAL PRESSURE SENSOR WITH DIGITAL DISPLAY; FURNISHED, INSTALLED AND WIRED BY ATC CONTRACTOR.
- CO2 — ROOM CARBON DIOXIDE SENSOR WITH DIGITAL DISPLAY: FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- CO2 — DUCT CARBON DIOXIDE SENSOR WITH DIGITAL DISPLAY: FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- FM GAS — GAS FLOW METER - FURNISHED AND WIRED BY THE ATC CONTRACTOR. INSTALLED IN PIPING BY MECHANICAL CONTRACTOR
- FHC — FUME HOOD CONTROL WITH DISPLAY AND KEYPAD; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- HOOD PROX — FUME HOOD PROXIMITY SENSOR; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.

DIGITAL INPUT SENSORS

- TLL — LOW LIMIT TEMPERATURE SWITCH WITH MANUAL RESET; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. DPDT SWITCH FOR HARDWIRE INTERLOCK TO FANS AND DDC MONITORING. REFER TO DETAIL H.
- OCC — OCCUPANCY SENSOR; FURNISHED AND WIRED BY THE ATC CONTRACTOR, INSTALLED IN LIGHTING CIRCUIT BY ELECTRICAL CONTRACTOR.
- ES — END SWITCH: FURNISHED, INSTALLED AND WIRED BY ATC CONTRACTOR UNLESS OTHERWISE NOTED, SHOWN ON THE DRAWINGS, OR SPECIFIED.
- WFS — WATER FLOW SWITCH SPECIFIED TO BE FURNISHED WITH HVAC EQUIPMENT; INSTALLED BY ATC CONTRACTOR; WIRED BY ATC CONTRACTOR.
- RM OCC — WALL MOUNTED ROOM OCCUPANCY SWITCH: FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- MS — MOISTURE SENSOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- KS — KEYED SWITCH; FURNISHED, INSTALLED AND WIRED BY THE ATC CONTRACTOR.
- HSL — HIGH STATIC PRESSURE LIMIT SWITCH WITH MANUAL RESET; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR. DPDT SWITCH FOR HARDWIRE INTERLOCK TO FANS AND DDC MONITORING. ORIENT FOR STATIC PRESSURE SENSING.
- CSR — CURRENT SENSING RELAY; FURNISHED, INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- FIL DP SW — FILTER DIFFERENTIAL PRESSURE SWITCH; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- DP SW WM — DIFFERENTIAL PRESSURE SWITCH FOR WET MEDIA; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR. PRESSURE TAPS IN PIPING BY MECHANICAL CONTRACTOR.
- RM OCC — CEILING MOUNTED ROOM OCCUPANCY SWITCH: FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR.
- PE SW — PRESSURE TO ELECTRIC SWITCH: FURNISHED, INSTALLED, PNEUMATIC PIPING, AND ELECTRICAL WIRING BY THE ATC CONTRACTOR.
- EFS — ELECTRONIC WATER FLOW SENSOR; FURNISHED, AND WIRED BY ATC CONTRACTOR; INSTALLED IN PIPING BY MECHANICAL CONTRACTOR.

OUTPUT DEVICES

- VA — CONTROL VALVE (2-WAY) WITH ELECTRIC OR ELECTRONIC ACTUATOR; FURNISHED AND WIRED BY ATC CONTRACTOR. INSTALLED IN PIPING BY MECHANICAL CONTRACTOR
- VA — CONTROL VALVE (3-WAY) ELECTRIC OR ELECTRONIC; FURNISHED AND WIRED BY ATC CONTRACTOR; INSTALLED IN PIPING BY MECHANICAL CONTRACTOR.
- VA — BUTTERFLY CONTROL VALVE (2-WAY) WITH ELECTRONIC ACTUATOR; FURNISHED AND WIRED BY ATC CONTRACTOR; INSTALLED IN PIPING BY MECHANICAL CONTRACTOR.
- VA — BUTTERFLY CONTROL VALVE (3-WAY) WITH ELECTRONIC ACTUATOR; FURNISHED AND WIRED BY ATC CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR.
- DA — DAMPER ACTUATOR; FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR UNLESS OTHERWISE NOTED ON DRAWINGS OR IN SPECIFICATIONS.
- SDA — SMOKE DAMPER ACTUATOR(S) FURNISHED AND INSTALLED BY SHEETMETAL CONTRACTOR. REFER TO DETAIL G.
- F/SDA — FIRE/SMOKE DAMPER ACTUATOR(S); FURNISHED AND INSTALLED BY SHEETMETAL CONTRACTOR. REFER TO DETAIL G.
- VA PNEU — PNEUMATIC VALVE ACTUATOR(S): FURNISHED, INSTALLED, AND PNEUMATIC PIPING BY ATC CONTRACTOR.
- SDA PNEU — PNEUMATIC SMOKE DAMPER ACTUATOR(S): FURNISHED AND INSTALLED BY SHEETMETAL CONTRACTOR. PNEUMATIC PIPING BY THE ATC CONTRACTOR.
- EPT — ELECTRIC TO PRESSURE TRANSDUCER: FURNISHED, INSTALLED, PIPED, AND WIRED BY THE ATC CONTRACTOR.
- AFMS ATC — AIR FLOW MEASURING STATION WITH INTEGRAL CONTROL DAMPER; FURNISHED AND WIRED BY THE ATC CONTRACTOR; INSTALLED BY THE SHEETMETAL CONTRACTOR. NC
- VA ES — CONTROL VALVE (2-WAY) WITH ELECTRONIC ACTUATOR AND INTEGRAL END SWITCH; FURNISHED AND WIRED BY ATC CONTRACTOR. INSTALLED IN PIPING BY MECHANICAL CONTRACTOR
- VA ES — CONTROL VALVE (3-WAY) WITH ELECTRONIC ACTUATOR AND INTEGRAL END SWITCH; FURNISHED AND WIRED BY ATC CONTRACTOR; INSTALLED IN PIPING BY MECHANICAL CONTRACTOR.
- VA ES — BUTTERFLY CONTROL VALVE (2-WAY) WITH ELECTRONIC ACTUATOR AND INTEGRAL END SWITCH; FURNISHED AND WIRED BY ATC CONTRACTOR; INSTALLED BY MECHANICAL CONTRACTOR.
- VA ES — BUTTERFLY CONTROL VALVE (3-WAY) WITH ELECTRONIC ACTUATOR AND INTEGRAL END SWITCH; FURNISHED AND WIRED BY ATC CONTRACTOR; INSTALLED IN PIPING BY MECHANICAL CONTRACTOR.
- DA ES — DAMPER ACTUATOR WITH INTEGRAL END SWITCH(ES); FURNISHED, INSTALLED, AND WIRED BY ATC CONTRACTOR UNLESS OTHERWISE NOTED ON DRAWINGS OR IN SPECIFICATIONS.
- SDA ES — SMOKE DAMPER ACTUATOR(S) WITH INTEGRAL END SWITCH: FURNISHED AND INSTALLED BY SHEETMETAL CONTRACTOR. REFER TO DETAIL G.
- F/SDA ES — FIRE/SMOKE DAMPER ACTUATOR(S) WITH INTEGRAL END SWITCH: FURNISHED AND INSTALLED BY SHEETMETAL CONTRACTOR. REFER TO DETAIL G.
- DA PNEU — PNEUMATIC DAMPER ACTUATOR(S): FURNISHED, INSTALLED, AND PNEUMATIC PIPING BY ATC CONTRACTOR.
- F/SDA PNEU — PNEUMATIC FIRE/SMOKE DAMPER ACTUATOR(S): FURNISHED AND INSTALLED BY SHEETMETAL CONTRACTOR. PNEUMATIC PIPING FOR FIRE/SMOKE DAMPERS BY ATC CONTRACTOR.
- AFMS ATC — AIR FLOW MEASURING STATION; FURNISHED AND WIRED BY THE ATC CONTRACTOR; INSTALLED BY THE SHEETMETAL CONTRACTOR.
- EXHAUST AIRFLOW MEASURING DEVICE; FURNISHED BY THE ATC CONTRACTOR; INSTALLED BY THE SHEETMETAL CONTRACTOR; DIFFERENTIAL PRESSURE SENSOR FURNISHED AND INSTALLED BY ATC CONTRACTOR.

CONTROL DEVICES FURNISHED BY OTHER TRADES:

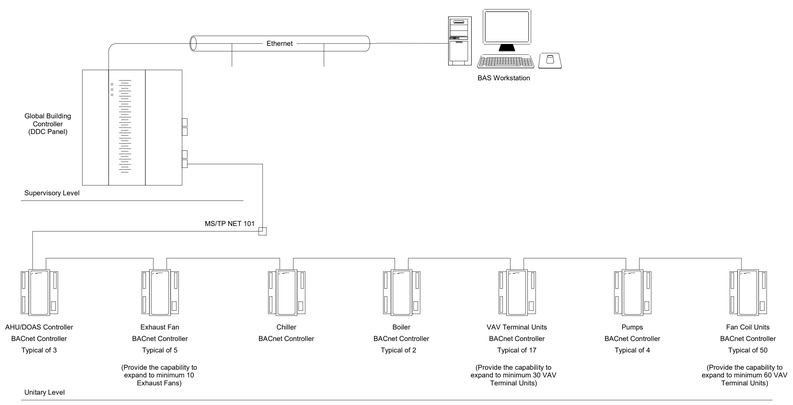
- HHL EQ — HUMIDITY HIGH LIMIT SENSOR; FURNISHED WITH THE STEAM HUMIDIFIER; INSTALLED AND WIRED BY ATC CONTRACTOR
- LVL FOS — FUEL OIL SYSTEM LEVEL SENSOR; FURNISHED AND INSTALLED BY THE FUEL OIL SYSTEM SUPPLIER, WIRED BY ATC CONTRACTOR.
- SV FOS — FUEL OIL SYSTEM SOLENOID VALVE; FURNISHED AND INSTALLED BY THE FUEL OIL SYSTEM SUPPLIER, WIRED BY ATC CONTRACTOR.
- VA WSHP — WATER SOURCE HEAT PUMP ISOLATION VALVE; FURNISHED WITH THE WSHP, INSTALLED BY THE MECHANICAL CONTRACTOR, WIRED BY ATC CONTRACTOR.
- LVL CDP — CONDENSATE PUMP LEVEL SENSOR; FACTORY FURNISHED WITH THE CONDENSATE PUMP, WIRED BY ATC CONTRACTOR.
- FS FOS — FUEL OIL SYSTEM FLOW SWITCH; FURNISHED AND INSTALLED WITH FUEL OIL SYSTEM BY MECHANICAL CONTRACTOR; WIRED BY ATC CONTRACTOR.
- AFMS EQ — AIR FLOW MEASURING STATION; FURNISHED AND INSTALLED BY THE AIR HANDLING UNIT MANUFACTURER. WIRING FROM THE AFMS TO THE DDC PANEL BY ATC CONTRACTOR. POWER WIRING BY ELECTRICAL CONTRACTOR.
- VA EQ — CONTROL VALVE (2-WAY) WITH ELECTRIC OR ELECTRONIC ACTUATOR; FURNISHED WITH EQUIPMENT (EQ); WIRED BY ATC CONTRACTOR; INSTALLED IN PIPING BY MECHANICAL CONTRACTOR
- AFMS EQ — AIR FLOW MEASURING STATION WITH INTEGRAL CONTROL DAMPER; FURNISHED AND INSTALLED BY THE AIR HANDLING UNIT MANUFACTURER. WIRING TO DDC SYSTEM BY ATC CONTRACTOR. NC
- FAR SMK — FIRE ALARM PROGRAMMABLE RELAY (FAR) FOR SMOKE PURGE OPERATION (SMK); FURNISHED, INSTALLED, AND PROGRAMMED BY FIRE ALARM CONTRACTOR. FAR SHALL BE LOCATED IN SAME ROOM AS HVAC EQUIPMENT SERVED PER NFPA. ALL WIRING FROM FAR TO FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR. INTERLOCK WIRING FROM FAR TO ATC PANEL BY ATC CONTRACTOR.
- DSD — DUCT MOUNTED SMOKE DETECTOR(S); FURNISHED, INSTALLED, AND WIRED BY FIRE ALARM CONTRACTOR AS PART OF THE FIRE ALARM SYSTEM.
- PLENUM FAN INLET BELL HOUSING AIRFLOW MEASURING STATION FURNISHED AND INSTALLED BY THE FAN MANUFACTURER.
- CENTRIFUGAL FAN INLET BELL HOUSING AIRFLOW MEASURING STATION FURNISHED AND INSTALLED BY THE FAN MANUFACTURER.
- LVL EG — EMERGENCY GENERATOR FUEL OIL LEVEL SENSOR; FACTORY FURNISHED, INSTALLED, AND WIRED WITH THE EMERGENCY GENERATOR.
- SV EG — EMERGENCY GENERATOR SOLENOID VALVE; FURNISHED AND INSTALLED BY THE FUEL OIL SYSTEM SUPPLIER, WIRED BY ATC CONTRACTOR.
- LEAK EG — EMERGENCY GENERATOR FUEL OIL LEAK DETECTOR; FACTORY FURNISHED, INSTALLED, AND WIRED WITH THE EMERGENCY GENERATOR.
- T EQ — EQUIPMENT STRAP ON TEMPERATURE SENSOR; FURNISHED WITH EQUIPMENT; INSTALLED, AND WIRED BY THE ATC CONTRACTOR.
- AFMS SM — AIR FLOW MEASURING STATION; FURNISHED, AND INSTALLED BY THE SHEETMETAL CONTRACTOR. WIRING FROM THE AFMS TO THE DDC PANEL BY ATC CONTRACTOR. POWER WIRING BY ELECTRICAL CONTRACTOR. NC
- CONTROL DAMPER; FURNISHED AND INSTALLED BY THE SHEETMETAL CONTRACTOR. DAMPER ACTUATOR FURNISHED INSTALLED AND WIRED BY ATC CONTRACTOR. NC
- AFMS SM — AIR FLOW MEASURING STATION WITH INTEGRAL CONTROL DAMPER; FURNISHED AND INSTALLED BY THE SHEETMETAL CONTRACTOR. NC
- FAR — FIRE ALARM PROGRAMMABLE RELAY (FAR); FURNISHED, INSTALLED, AND PROGRAMMED BY FIRE ALARM CONTRACTOR. FAR SHALL BE LOCATED IN SAME ROOM AS HVAC EQUIPMENT SERVED PER NFPA. ALL WIRING FROM FAR TO FIRE ALARM SYSTEM BY FIRE ALARM CONTRACTOR. INTERLOCK WIRING FROM FAR TO ATC PANEL BY ATC CONTRACTOR.

OTHER CONTROL DEVICES

- FEP — FIELD EQUIPMENT PANEL (FEP); FURNISHED AND INSTALLED BY ATC CONTRACTOR. POWER WIRING TO FEP BY ELECTRICAL CONTRACTOR.
- FILTER GAGE: FURNISHED WITH FILTERS; INSTALLATION AND INSTRUMENT PIPING BY ATC CONTRACTOR.
- DDC — DIRECT DIGITAL CONTROL PANEL (DDC); FURNISHED AND INSTALLED BY ATC CONTRACTOR. POWER WIRING TO DDC PANEL BY ELECTRICAL CONTRACTOR
- BALL-IN-TUBE VISUAL OFFSET INDICATOR FURNISHED AND INSTALLED BY ATC CONTRACTOR.

NOT ALL DEVICES ARE USED ON THIS PROJECT

System Architecture



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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

MECHANICAL CONTROLS

Sheet No.

M6.00

Project Name
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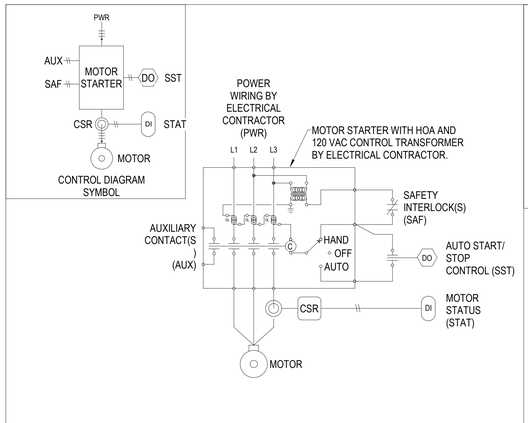
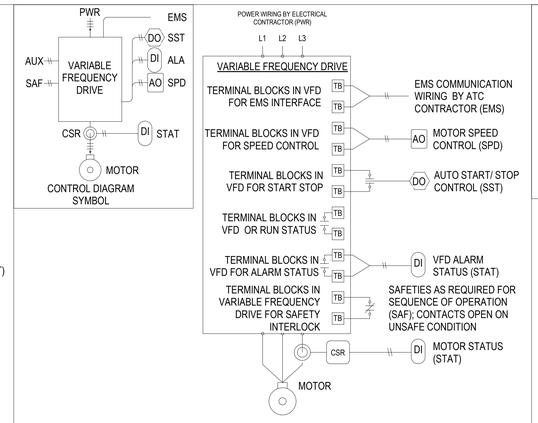


B DETAIL: MOTOR STARTER INTERLOCK DETAIL
NOT TO SCALE



C DETAIL: VARIABLE FREQUENCY DRIVE INTERLOCK
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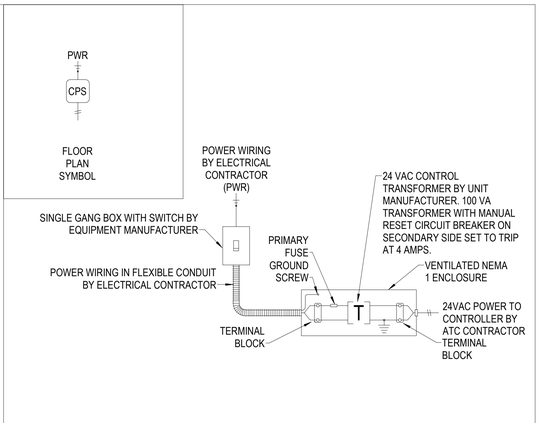
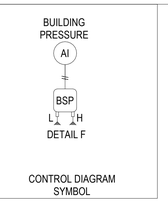
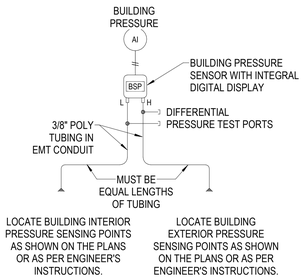


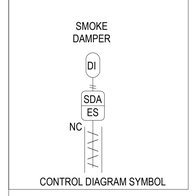
D DETAIL: SUPPLY AIR TERMINAL POWER SUPPLY
NOT TO SCALE

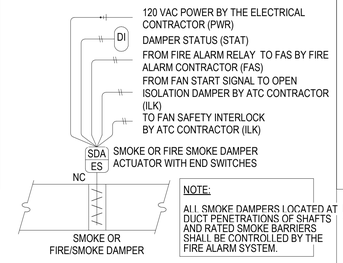




NOTES:
1. LOCATE BUILDING PRESSURE SENSOR TO ALLOW EQUAL LENGTHS OF TUBING TO BOTH INTERIOR AND EXTERIOR SENSING LOCATIONS.
2. CAPPED TEES ON DIFFERENTIAL PRESSURE TEST PORTS FURNISHED AND INSTALLED BY THE ATC CONTRACTOR.

F DETAIL: BUILDING PRESSURE SENSOR
NOT TO SCALE

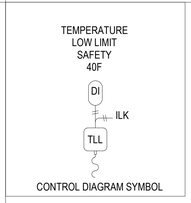


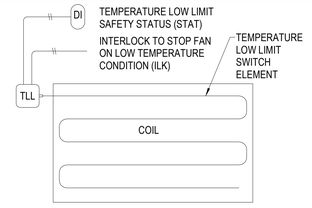


NOTE:
ALL SMOKE DAMPERS LOCATED AT DUCT PENETRATIONS OF SHAFTS AND RATED SMOKE BARRIERS SHALL BE CONTROLLED BY THE FIRE ALARM SYSTEM.

NOTES:
1. SMOKE OR FIRE/SMOKE DAMPER(S) ARE FURNISHED BY THE SHEETMETAL CONTRACTOR WITH ELECTRONIC SPRING RETURN TO CLOSED OR OPEN ACTUATOR(S) AND END SWITCH(ES).
2. SMOKE OR FIRE SMOKE DAMPER(S) ARE INSTALLED BY THE SHEETMETAL CONTRACTOR.
3. FIRE ALARM RELAY(S) ARE FURNISHED AND INSTALLED BY FIRE ALARM CONTRACTOR AT THE SMOKE OR FIRE/SMOKE DAMPER ACTUATOR(S).
4. INTERLOCK WIRING FROM THE FIRE ALARM RELAY TO THE SMOKE OR FIRE/SMOKE DAMPER ACTUATOR(S) IS BY THE FIRE ALARM CONTRACTOR.
5. WHERE SMOKE OR FIRE/SMOKE DAMPERS ARE USED AS ISOLATION DAMPERS FOR AIR HANDLING UNITS, THE INTERLOCK WIRING FROM THE FAN START SIGNAL TO OPEN THE ISOLATION SMOKE OR FIRE/SMOKE DAMPERS IS BY THE ATC CONTRACTOR.
6. INTERLOCK WIRING FROM THE SMOKE OR FIRE/SMOKE DAMPER ACTUATOR END SWITCH(ES) TO THE FAN SAFETY CIRCUIT(S) IS BY THE ATC CONTRACTOR.

G DETAIL: SMOKE OR FIRE/SMOKE DAMPER INTERLOCK
NOT TO SCALE

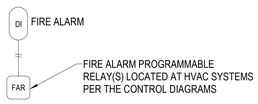




NOTES:
1. A MANUAL RESET TEMPERATURE LOW LIMIT (TLL) SWITCH WITH DPST OR DPDT CONTACTS FOR HARDWIRE INTERLOCK TO FANS AND DDC MONITORING SHALL BE PROVIDED. CONTACTS SHALL INCLUDE OPEN ON ALARM CONTACT FOR FAN SHUTDOWN AND A CLOSE ON ALARM CONTACT FOR ALARM STATUS.
2. TEMPERATURE LOW LIMIT SHALL HAVE ONE FOOT OF ELEMENT LENGTH PER ONE SQUARE FOOT OF COIL SURFACE EVENLY DISTRIBUTED OVER THE COIL SURFACE AS SHOWN IN DETAIL.
3. MULTIPLE TEMPERATURE LOW LIMIT SWITCHES MAY BE REQUIRED TO MEET THE ONE FOOT OF ELEMENT PER ONE SQUARE FOOT OF COIL SURFACE AND IN THIS EVENT THE MULTIPLE TEMPERATURE LOW LIMIT SWITCHES SHALL BE WIRED IN SERIES FOR FAN SHUTDOWN AND WIRED IN PARALLEL FOR ALARM STATUS.
4. INTERLOCK WIRING FROM THE TEMPERATURE LOW LIMIT SWITCH TO THE FAN CONTROLLER IS BY THE ATC CONTRACTOR.
5. TEMPERATURE LOW LIMIT SWITCH SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AT REGULAR INTERVALS NOTED TO COVER THE ENTIRE COIL.
6. TEMPERATURE LOW LIMIT (TLL) SWITCHES SHALL HAVE SETPOINT ADJUSTMENT AND MANUAL RESET AT THE SWITCH.
7. TEMPERATURE LOW LIMIT SWITCH SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS IN A MANNER TO PREVENT THE ELEMENT FROM BEING DAMAGED FROM VIBRATION.

H DETAIL: TEMPERATURE LOW LIMIT SWITCH
NOT TO SCALE





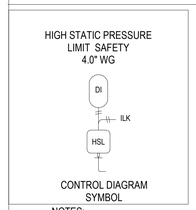
FIRE ALARM PROGRAMMABLE RELAY(S) (FAR):

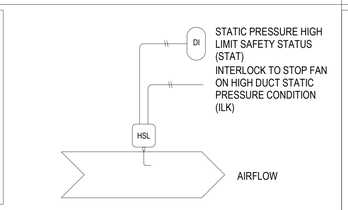
THE FIRE ALARM CONTRACTOR SHALL PROVIDE A PROGRAMMABLE RELAY AT EACH HVAC SYSTEM AS SHOWN ON THE CONTROL DIAGRAMS OR AS REQUIRED FOR THE SEQUENCE OF OPERATION FOR THE SPECIFIC HVAC SYSTEM. THE FAR SHALL INITIATE THE EMERGENCY OPERATION OF THE HVAC SYSTEM ON AN ALARM CONDITION.

THE ATC CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL RELAY(S) AS REQUIRED TO ACTIVATE AUXILIARY SYSTEM COMPONENTS AS PER THE SEQUENCE OF OPERATION.

FIRE ALARM RELAY(S) LOCATED AT SMOKE OR FIRE/SMOKE DAMPER(S) IN DUCTWORK SYSTEM SHALL BE WIRED TO CLOSE THE DAMPER(S) IN THE EVENT OF AN ALARM CONDITION BY THE FIRE ALARM CONTRACTOR.

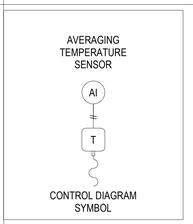
M DETAIL: FIRE ALARM RELAY
NOT TO SCALE

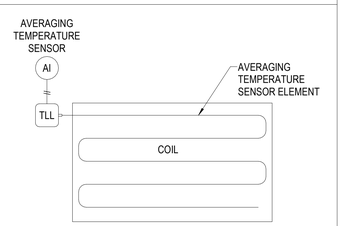




NOTES:
1. A MANUAL RESET DUCT HIGH STATIC PRESSURE LIMIT (HSL) SWITCH(ES) WITH DPST OR DPDT CONTACTS FOR HARDWIRE INTERLOCK TO FANS AND DDC MONITORING SHALL BE PROVIDED. CONTACTS SHALL INCLUDE OPEN ON ALARM CONTACT FOR FAN SHUTDOWN AND A CLOSE ON ALARM CONTACT FOR ALARM STATUS.
2. DUCT HIGH STATIC PRESSURE LIMIT (HSL) SWITCH(ES) SHALL BE INSTALLED TO SENSE DUCT STATIC PRESSURE AND STOP THE ASSOCIATED FAN TO PREVENT DAMAGE TO THE DUCT WORK.
3. MULTIPLE DUCT HIGH STATIC PRESSURE LIMIT (HSL) SWITCHES MAY BE REQUIRED AS SHOW ON THE CONTROL DIAGRAMS. THE MULTIPLE DUCT HIGH STATIC LIMIT SWITCHES SHALL BE WIRED IN SERIES FOR FAN SHUTDOWN AND WIRED IN PARALLEL FOR ALARM STATUS.
4. INTERLOCK WIRING FROM THE DUCT HIGH STATIC PRESSURE LIMIT (HSL) SWITCHES TO THE FAN CONTROLLER IS BY THE ATC CONTRACTOR.
5. DUCT HIGH STATIC PRESSURE LIMIT (HSL) SWITCHES SHALL HAVE SETPOINT ADJUSTMENT AND MANUAL RESET AT THE SWITCH.
6. DUCT HIGH STATIC LIMIT (HSL) SWITCHES SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.

K DETAIL: DUCT STATIC PRESSURE HIGH LIMIT SWITCH
NOT TO SCALE





NOTES:
1. AVERAGING TEMPERATURE SENSOR SHALL HAVE ONE FOOT OF ELEMENT LENGTH PER THREE SQUARE FOOT OF COIL SURFACE EVENLY DISTRIBUTED OVER THE COIL SURFACE AS SHOWN IN DETAIL.
2. MULTIPLE AVERAGING TEMPERATURE SENSORS MAY BE REQUIRED TO MEET THE ONE FOOT OF ELEMENT PER TWO SQUARE FOOT OF COIL SURFACE AND IN THIS EVENT THE MULTIPLE AVERAGING TEMPERATURE SENSORS SHALL BE WIRED TO PROVIDE THE CORRECT AVERAGE TEMPERATURE TO THE DDC SYSTEM..
3. AVERAGING TEMPERATURE SENSORS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AT REGULAR INTERVALS TO COVER THE ENTIRE COIL.
4. AVERAGING TEMPERATURE SENSORS SHALL BE INSTALLED PER MANUFACTURE'S RECOMMENDATIONS IN A MANNER TO PREVENT THE ELEMENT FROM BEING DAMAGED FROM VIBRATION.

I DETAIL: DUCT AVERAGING TEMPERATURE SENSOR
NOT TO SCALE

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UAFAPH-21.01
Date
12.18.2025
Title

MECHANICAL CONTROLS

Sheet No.
M6.01

Project Name
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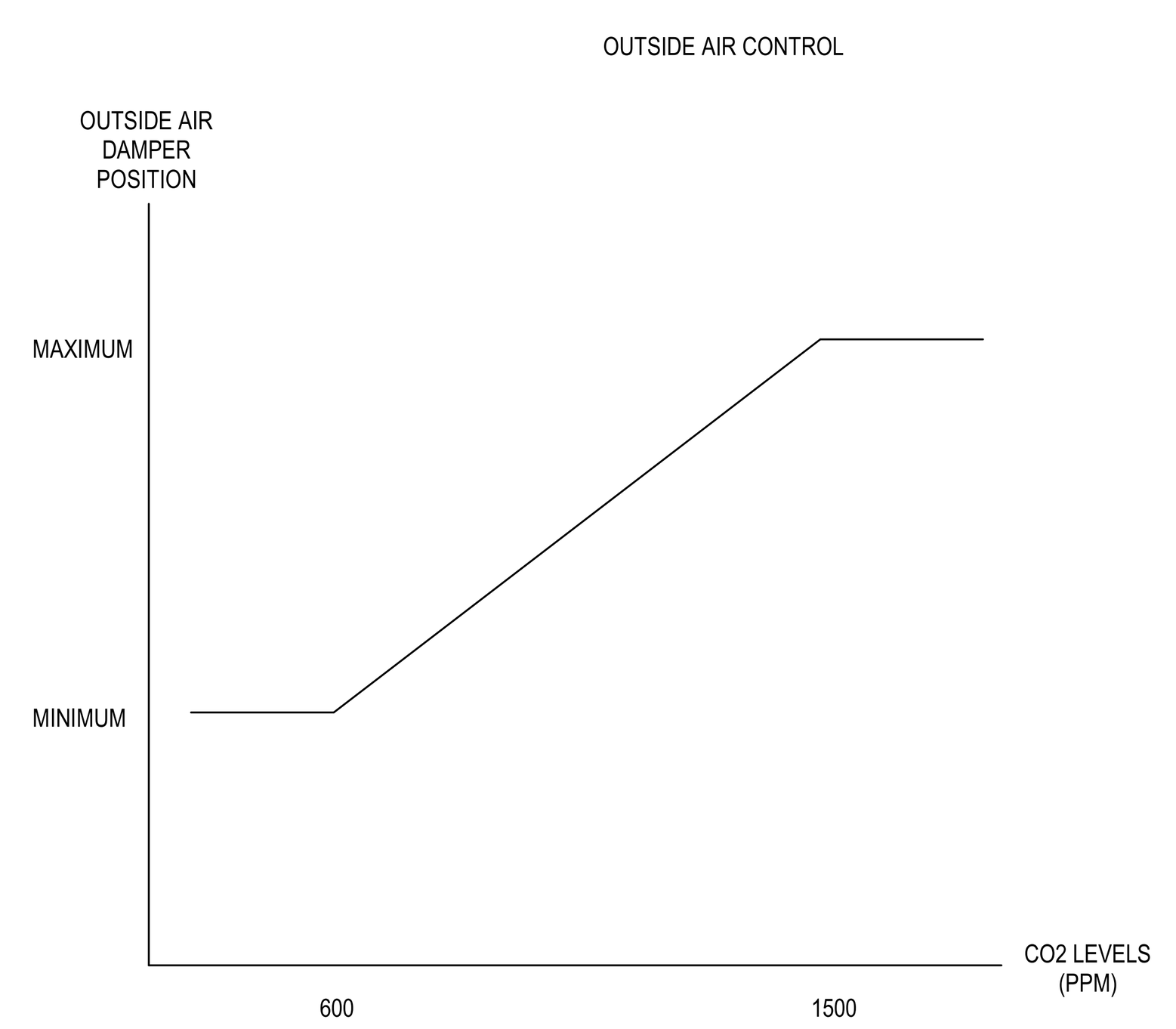

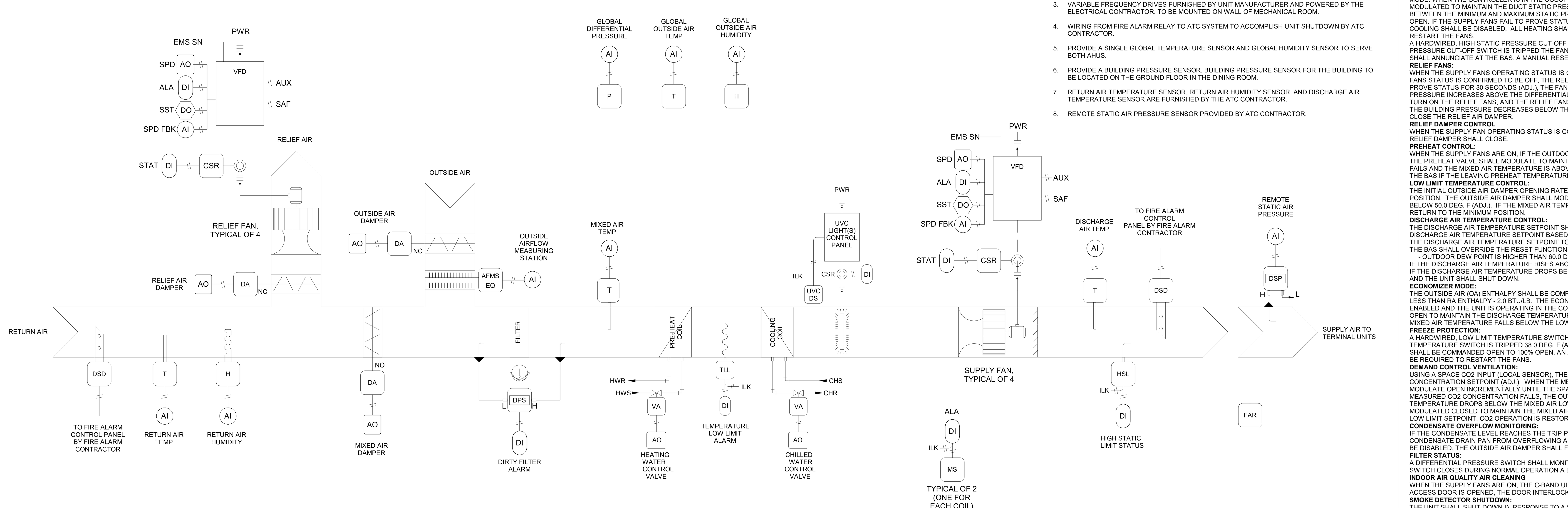

1 AHU CONTROL DIAGRAM
SCALE: NTS

GENERAL NOTES:

1. POWER WIRING (PWR) BY THE ELECTRICAL CONTRACTOR. ATC CONTRACTOR IS RESPONSIBLE FOR POWER WIRING FROM FIELD EQUIPMENT PANEL TO CONTROLS REQUIRING POWER.
2. SMOKE DETECTORS ARE PROVIDED BY THE AHU MANUFACTURER, INSTALLED IN SUPPLY AND RETURN DUCTWORK BY SHEETMETAL CONTRACTOR, AND WIRED TO THE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR.
3. VARIABLE FREQUENCY DRIVES FURNISHED BY UNIT MANUFACTURER AND POWERED BY THE ELECTRICAL CONTRACTOR. TO BE MOUNTED ON WALL OF MECHANICAL ROOM.
4. WIRING FROM FIRE ALARM RELAY TO ATC SYSTEM TO ACCOMPLISH UNIT SHUTDOWN BY ATC CONTRACTOR.
5. PROVIDE A SINGLE GLOBAL TEMPERATURE SENSOR AND GLOBAL HUMIDITY SENSOR TO SERVE BOTH AHUS.
6. PROVIDE A BUILDING PRESSURE SENSOR. BUILDING PRESSURE SENSOR FOR THE BUILDING TO BE LOCATED ON THE GROUND FLOOR IN THE DINING ROOM.
7. RETURN AIR TEMPERATURE SENSOR, RETURN AIR HUMIDITY SENSOR, AND DISCHARGE AIR TEMPERATURE SENSOR ARE FURNISHED BY THE ATC CONTRACTOR.
8. REMOTE STATIC AIR PRESSURE SENSOR PROVIDED BY ATC CONTRACTOR.

SEQUENCE OF OPERATION: AIR HANDLER UNIT [QTY: 2]
BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, PRE-COOL, OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES. THE BAS SHALL ALSO SEND THE DISCHARGE AIR TEMPERATURE SETPOINT AND THE DUCT STATIC PRESSURE SETPOINT. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.
OCCUPIED:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE MIXED AIR DAMPERS SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. IN THE COOLING MODE THE CHILLED WATER VALVE SHALL MODULATE TO CONTROL THE DISCHARGE AIR SETPOINT. IN THE HEATING MODE THE HOT WATER VALVE SHALL MODULATE TO CONTROL THE DISCHARGE AIR SETPOINT. IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE SUPPLY FAN SHALL BE DISABLED, THE CHILLED WATER VALVE SHOULD CLOSE, THE HEATING VALVE SHOULD CLOSE, THE OUTDOOR AIR SHOULD CLOSE, AND AN ALARM SHOULD ANNUNCIATE AT THE BAS.
UNOCCUPIED:
DURING THE UNOCCUPIED PERIODS, THE SUPPLY FAN SHALL BE DISABLED, THE RELIEF FAN SHALL BE DISABLED, THE OUTSIDE AIR DAMPER SHALL CLOSE, THE MECHANICAL COOLING SHALL BE DISABLED, THE MECHANICAL HEATING SHALL BE DISABLED, TO CONSERVE ENERGY. THE OUTDOOR DAMPER SHALL MODULATE IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF NOT ECONOMIZING,
OPTIMAL STOP:
OUTSIDE AIR DAMPER SHALL REMAIN ENABLED TO PROVIDE MINIMUM VENTILATION.
MORNING WARM-UP MODE:
DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT A MORNING WARM-UP MODE SHALL BE ACTIVATED. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED.
DAYTIME WARM-UP CONTROL:
DURING OCCUPIED PERIODS, WHEN THE SPACE TEMPERATURE IS BELOW THE DAYTIME WARM-UP INITIATE SETPOINT, A DAYTIME WARM-UP SEQUENCE SHALL BE ACTIVATED. THE OUTSIDE AIR DAMPER SHALL MODULATE TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS, AND THE HEATING SHALL ENABLE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE HEATING SETPOINT. DAYTIME WARM-UP SHALL TERMINATE WHEN THE AVERAGE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT.
PRE-COOL MODE:
DURING OPTIMAL START, IF THE AVERAGE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE SHALL BE ACTIVATED. WHEN PRE-COOL IS INITIATED THE UNIT SHALL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT SHALL TRANSITION TO THE OCCUPIED MODE.
SUPPLY FANS:
THE SUPPLY FANS SHALL BE OFF IN THE UNOCCUPIED MODE. THE SUPPLY FANS SHALL BE ON IF THE CONTROL IS HEATING OR COOLING IN THE UNOCCUPIED MODE. WHEN THE CONTROLLER IS IN THE OCCUPIED MODE, THE SUPPLY FANS SHALL OPERATE IN UNISON CONTINUOUSLY. THE SUPPLY FANS SPEED SHALL BE MODULATED TO MAINTAIN THE DUCT STATIC PRESSURE SETPOINT. THE DUCT STATIC PRESSURE SETPOINT SHALL BE SENT BY THE BAS AND IS RESET BETWEEN THE MINIMUM AND MAXIMUM STATIC PRESSURE LIMITS TO MAINTAIN THE CRITICAL ZONE VAV AIR DAMPER IN A POSITION BETWEEN 75% AND 85% OPEN. IF THE SUPPLY FANS FAIL TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FANS SHALL BE COMMANDED OFF, THE OUTSIDE AIR DAMPER SHALL CLOSE, COOLING SHALL BE DISABLED, ALL HEATING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FANS.
A HARDWIRED, HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE VARIABLE SPEED DRIVE. IF THE HIGH STATIC PRESSURE CUT-OFF SWITCH IS TRIPPED THE FANS SHALL BE COMMANDED OFF, HEATING SHALL BE DISABLED, COOLING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET OF THE HIGH STATIC PRESSURE CUT-OFF SWITCH SHALL BE REQUIRED TO RESTART THE FANS.
RELIEF FANS:
WHEN THE SUPPLY FANS OPERATING STATUS IS CONFIRMED, AND THE RELIEF DAMPER FULLY OPENS, THE RELIEF FANS SHALL BE ENABLED. IF THE SUPPLY FANS STATUS IS CONFIRMED TO BE OFF, THE RELIEF FANS SHALL BE DISABLED AND THE RELIEF AIR DAMPER SHALL BE CLOSED. IF THE RELIEF FANS FAIL TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FANS SHALL BE COMMANDED OFF, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. WHEN THE BUILDING PRESSURE INCREASES ABOVE THE DIFFERENTIAL PRESSURE SETPOINT OF +0.01" (ADJ.), THE UNIT CONTROLLER SHALL FULLY OPEN THE RELIEF AIR DAMPER, TURN ON THE RELIEF FANS, AND THE RELIEF FANS SPEED SHALL MODULATE TO CONTROL BUILDING PRESSURE TO THE DIFFERENTIAL PRESSURE SETPOINT. IF THE BUILDING PRESSURE DECREASES BELOW THE DIFFERENTIAL PRESSURE SETPOINT, THE CONTROLLER SHALL DEACTIVATE THE RELIEF FANS AND FULLY CLOSE THE RELIEF AIR DAMPER.
RELIEF DAMPER CONTROL
WHEN THE SUPPLY FAN OPERATING STATUS IS CONFIRMED, THE RELIEF DAMPER SHALL FULLY OPEN. WHEN THE SUPPLY FAN STATUS IS CONFIRMED OFF, THE RELIEF DAMPER SHALL CLOSE.
PREHEAT CONTROL:
WHEN THE SUPPLY FANS ARE ON, IF THE OUTDOOR AIR TEMPERATURE IS BELOW 45.0 DEG. F (ADJ.) OR THE OUTDOOR AIR TEMPERATURE SENSOR HAS FAILED, THE PREHEAT VALVE SHALL MODULATE TO MAINTAIN A PREHEAT LEAVING COIL TEMPERATURE OF 53.0 DEG. F (ADJ.). IF THE PREHEAT TEMPERATURE SENSOR FAILS AND THE MIXED AIR TEMPERATURE IS ABOVE 50.0 DEG. F (ADJ.) THE PREHEAT VALVE SHALL BE COMMANDED CLOSED. AN ALARM SHALL ANNUNCIATE AT THE BAS IF THE LEAVING PREHEAT TEMPERATURE SENSOR, THE MIXED AIR TEMPERATURE SENSOR, OR THE OUTSIDE AIR TEMPERATURE SENSOR ARE FAILED.
LOW LIMIT TEMPERATURE CONTROL:
THE INITIAL OUTSIDE AIR DAMPER OPENING RATE SHALL BE LIMITED TO 2% PER MINUTE (ADJ.) UNTIL THE DAMPER HAS REACHED ITS MINIMUM VENTILATION POSITION. THE OUTSIDE AIR DAMPER SHALL MODULATE TO A POSITION LESS THAN THE MINIMUM DAMPER POSITION IF THE MIXED AIR TEMPERATURE DROPS BELOW 50.0 DEG. F (ADJ.). IF THE MIXED AIR TEMPERATURE SENSOR FAILS AN ALARM SHALL ANNUNCIATE AT THE BAS AND THE OUTSIDE AIR DAMPER SHALL RETURN TO THE MINIMUM POSITION.
DISCHARGE AIR TEMPERATURE CONTROL:
THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE RESET TO THE OPTIMAL SETPOINT COMMUNICATED BY THE BAS. THE BAS SHALL RESET THE DISCHARGE AIR TEMPERATURE SETPOINT BASED ON THE CURRENT OUTSIDE AIR TEMPERATURE BUT SHALL OVERRIDE THIS RESET FUNCTION AND RETURN THE DISCHARGE AIR TEMPERATURE SETPOINT TO 53.0 DEG. F (ADJ.) IF MORE THAN TWO (ADJ.) ZONES BEGIN TO OVERHEAT.
THE BAS SHALL OVERRIDE THE RESET FUNCTION TO THE MINIMUM DISCHARGE AIR TEMPERATURE SETPOINT WHEN:
- OUTDOOR DEW POINT IS HIGHER THAN 60.0 DEG. F (ADJ.)

IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE MAXIMUM LIMIT OF 65.0 DEG. F (ADJ.), A HIGH TEMPERATURE ALARM SHALL ANNUNCIATE TO THE BAS. IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW THE MINIMUM LIMIT OF 45.0 DEG. F (ADJ.), A LOW TEMPERATURE ALARM SHALL ANNUNCIATE TO THE BAS, AND THE UNIT SHALL SHUT DOWN.
ECONOMIZER MODE:
THE OUTSIDE AIR (OA) ENTHALPY SHALL BE COMPARED WITH RETURN AIR (RA) ENTHALPY POINT. THE ECONOMIZER SHALL ENABLE WHEN OA ENTHALPY IS LESS THAN RA ENTHALPY - 2.0 BTU/LB. THE ECONOMIZER SHALL DISABLE WHEN OA ENTHALPY IS GREATER THAN RA ENTHALPY. WHEN ECONOMIZING IS ENABLED AND THE UNIT IS OPERATING IN THE COOLING MODE, THE ECONOMIZER DAMPER SHALL BE MODULATED BETWEEN ITS MINIMUM POSITION AND 100% OPEN TO MAINTAIN THE DISCHARGE TEMPERATURE SETPOINT. THE ECONOMIZER DAMPER SHALL MODULATE TOWARD MINIMUM POSITION IN THE EVENT THE MIXED AIR TEMPERATURE FALLS BELOW THE LOW TEMPERATURE LIMIT SETTING.
FREEZE PROTECTION:
A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE SUPPLY FANS VARIABLE SPEED DRIVE. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED 38.0 DEG. F (ADJ.), THE FAN SHALL BE COMMANDED OFF AND THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE. ALL VALVES SHALL BE COMMANDED OPEN TO 100% OPEN. AN ALARM SHALL ANNUNCIATE AT THE BAS AND MANUAL RESET OF THE LOW LIMIT TEMPERATURE SWITCH SHALL BE REQUIRED TO RESTART THE FANS.
DEMAND CONTROL VENTILATION:
USING A SPACE CO2 INPUT (LOCAL SENSOR), THE CONTROLLER SHALL MONITOR AND COMPARE THE MEASURED SPACE CO2 TO THE SPACE CO2 CONCENTRATION SETPOINT (ADJ.). WHEN THE MEASURED SPACE CO2 CONCENTRATION REACHES THE SETPOINT (ADJ.), THE OUTSIDE AIR DAMPER SHALL MODULATE OPEN INCREMENTALLY UNTIL THE SPACE CO2 LEVEL IS SATISFIED OR THE OUTSIDE AIR DAMPER REACHES THE FULL OPEN POSITION. IF THE MEASURED CO2 CONCENTRATION FALLS, THE OUTSIDE AIR DAMPER SHALL MODULATE TOWARD NORMAL ECONOMIZER OPERATION. IF THE MIXED AIR TEMPERATURE DROPS BELOW THE MIXED AIR LOW LIMIT SETPOINT THE CO2 SENSOR INPUT IS OVERRIDDEN AND THE OUTSIDE AIR DAMPER SHALL BE MODULATED CLOSED TO MAINTAIN THE MIXED AIR TEMPERATURE LOW LIMIT SETPOINT. WHEN THE MIXED AIR TEMPERATURE RISES ABOVE THE MIXED AIR LOW LIMIT SETPOINT, CO2 OPERATION IS RESTORED.
CONDENSATE OVERFLOW MONITORING:
IF THE CONDENSATE LEVEL REACHES THE TRIP POINT, A CONDENSATE OVERFLOW DIAGNOSTIC SHALL ANNUNCIATE AT THE BAS. TO PREVENT THE CONDENSATE DRAIN PAN FROM OVERFLOWING AND CAUSING WATER DAMAGE TO THE BUILDING THE SUPPLY FANS AND RELIEF FANS (IF IN OPERATION) SHALL BE DISABLED, THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE, AND ALL VALVES SHALL FULLY CLOSE.
FILTER STATUS:
A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE SUPPLY FANS ARE RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL ANNUNCIATE AT THE BAS.
INDOOR AIR QUALITY AIR CLEANING
WHEN THE SUPPLY FANS ARE ON, THE C-BAND ULTRA VIOLET GERMICIDAL IRRADIATION AIR CLEANING LAMPS SHALL BE ENABLED. WHEN THE AIR CLEANING ACCESS DOOR IS OPENED, THE DOOR INTERLOCK SAFETY CUT-OFF SWITCH SHALL OPEN AND DISABLE THE UV LAMPS.
SMOKE DETECTOR SHUTDOWN:
THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

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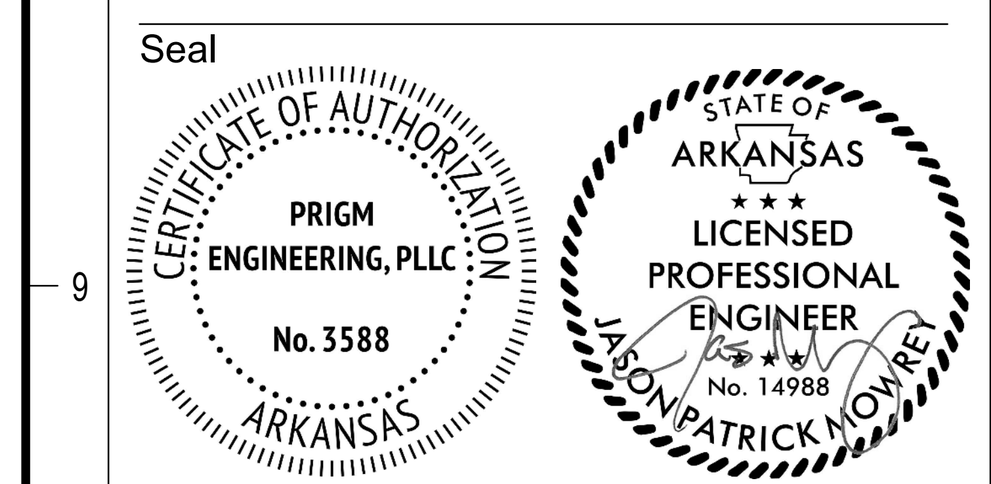


CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01
Date 12.18.2025
Title
MECHANICAL CONTROLS
Sheet No.
M6.02

HOUSE MOM UNIT SEQUENCE OF OPERATION

GENERAL NOTES:
PROVIDE ALL NECESSARY COMPONENTS AND MATERIALS TO ACCOMPLISH THE SEQUENCE OF OPERATION WHETHER OR NOT EXPLICITLY STATED, SCHEDULED, OR NOTED OTHERWISE.

CONTROL METHOD:
UNIT SHALL BE PLACED IN OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES BY A 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL PROVIDE AUTOMATIC CHANGEOVER BETWEEN HEATING AND COOLING WITH 5°F DEADBAND. THE THERMOSTAT SHALL BE CAPABLE OF BEING TEMPORARILY PLACED IN OCCUPIED MODE OUTSIDE OF PROGRAMMED TIMES.

OCCUPIED MODE:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS (REFER TO SCHEDULE). THE COOLING HEATING SHALL OPERATE PER FACTORY CONTROLS TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE SETPOINTS.

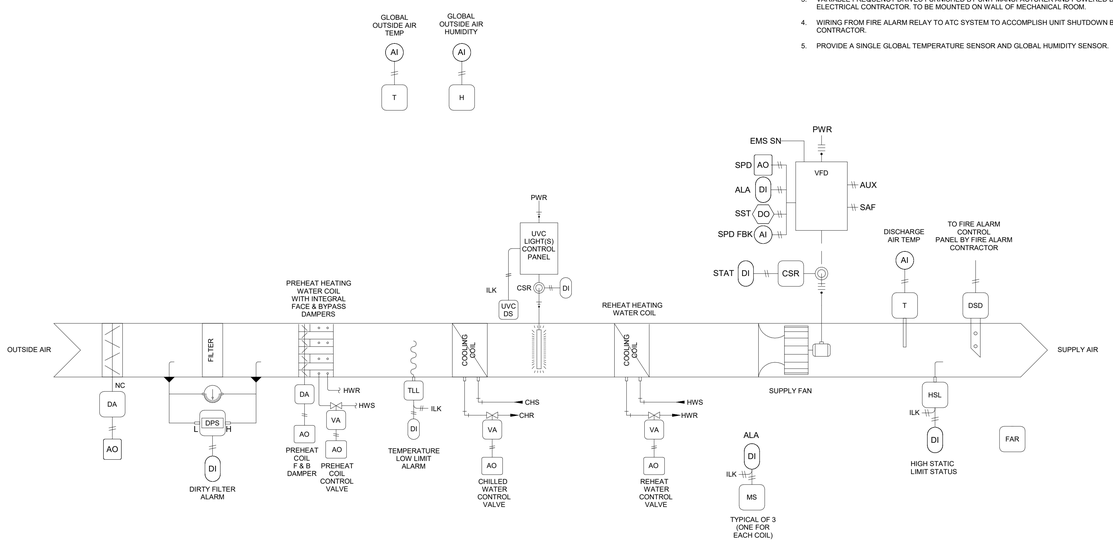
UNOCCUPIED MODE:
THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED MODE.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND COOLING SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND HEATING SHALL BE DISABLED.

GENERAL NOTES:

1. POWER WIRING (PWR) BY THE ELECTRICAL CONTRACTOR. ATC CONTRACTOR IS RESPONSIBLE FOR POWER WIRING FROM FIELD EQUIPMENT PANEL TO CONTROLS REQUIRING POWER.
2. SMOKE DETECTOR ARE PROVIDED BY THE AHU MANUFACTURER, INSTALLED IN SUPPLY DUCTWORK BY SHEETMETAL CONTRACTOR, AND WIRED TO THE FIRE ALARM SYSTEM BY THE FIRE ALARM CONTRACTOR.
3. VARIABLE FREQUENCY DRIVES FURNISHED BY UNIT MANUFACTURER AND POWERED BY THE ELECTRICAL CONTRACTOR. TO BE MOUNTED ON WALL OF MECHANICAL ROOM.
4. WIRING FROM FIRE ALARM RELAY TO ATC SYSTEM TO ACCOMPLISH UNIT SHUTDOWN BY ATC CONTRACTOR.
5. PROVIDE A SINGLE GLOBAL TEMPERATURE SENSOR AND GLOBAL HUMIDITY SENSOR.

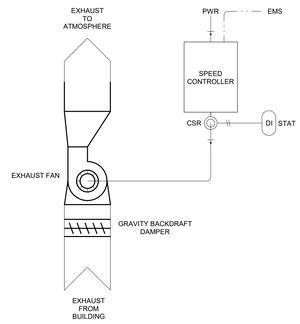


1 DOAS CONTROL DIAGRAM
SCALE: NTS

SEQUENCE OF OPERATION: DOAS UNIT
BUILDING AUTOMATION SYSTEM INTERFACE:
THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER AN OCCUPIED OR UNOCCUPIED COMMAND. THE BAS SHALL ALSO SEND TEMPERATURES, SETPOINTS AND OTHER APPLICABLE INFORMATION TO THE CONTROLLER. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS, THE CONTROLLER SHALL OPERATE IN THE OCCUPIED MODE USING ITS DEFAULT SETPOINTS.
OCCUPIED:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTDOOR AIR DAMPER SHALL OPEN FULLY BEFORE THE FAN STARTS. IN THE COOLING MODE THE CHILLED WATER VALVE SHALL MODULATE TO CONTROL THE DISCHARGE AIR SETPOINT OF 70 DEG. F (ADJ.). IN THE HEATING MODE THE HOT WATER VALVE SHALL MODULATE TO CONTROL THE DISCHARGE AIR SETPOINT OF 72 DEG. F (ADJ.). IF THE DISCHARGE AIR TEMPERATURE SENSOR FAILS, THE SUPPLY FAN SHALL BE DISABLED, THE CHILLED WATER VALVE SHALL FULLY CLOSE, THE HEATING VALVES SHALL FULLY CLOSE, THE OUTDOOR AIR DAMPER SHALL FULLY CLOSE, AND AN ALARM SHOULD ANNUNCIATE AT THE BAS.
UNOCCUPIED:
DURING THE UNOCCUPIED PERIODS, THE SUPPLY FAN SHALL BE DISABLED, THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE, THE MECHANICAL COOLING SHALL BE DISABLED, THE MECHANICAL HEATING SHALL BE DISABLED.
HEAT/COOL MODE:
WHEN THE OUTSIDE TEMPERATURE IS BELOW THE PRIMARY AIR DISCHARGE AIR TEMPERATURE SET POINT THE UNIT SHALL BE IN COOLING MODE. WHEN THE OUTSIDE AIR TEMPERATURE IS BELOW THE PRIMARY AIR DISCHARGE AIR TEMPERATURE SET POINT THE UNIT SHALL BE IN HEATING MODE.
SUPPLY FAN:
THE SUPPLY FAN SHALL BE OFF IN THE UNOCCUPIED MODE. THE SUPPLY FAN SHALL BE ON IF THE CONTROL IS HEATING OR COOLING IN THE UNOCCUPIED MODE. WHEN THE CONTROLLER IS IN THE OCCUPIED MODE, THE SUPPLY FAN SHALL OPERATE CONTINUOUSLY. IF THE SUPPLY FAN FAILS TO PROVE STATUS FOR 30 SECONDS (ADJ.), THE FAN SHALL BE COMMANDED OFF, THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE, COOLING SHALL BE DISABLED, ALL HEATING SHALL BE DISABLED, AND AN ALARM SHALL ANNUNCIATE AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FAN.
PREHEAT CONTROL:
WHEN THE FAN IS OFF, IF THE OUTDOOR AIR TEMPERATURE IS BELOW 40.0 DEG. F (ADJ.) OR THE OUTDOOR AIR TEMPERATURE SENSOR IS FAILED, THE PREHEAT VALVE SHALL FULLY OPEN AND MODULATE THE FACE AND BYPASS DAMPERS TO MAINTAIN A PREHEAT LEAVING TEMPERATURE OF 50 DEG (ADJ.) WHEN THE FAN IS ON, THE PREHEAT VALVE SHALL FULLY OPEN AND THE FACE AND BYPASS DAMPER(S) SHALL MODULATE TO MAINTAIN A LEAVING PREHEAT TEMPERATURE OF 50.0 DEG. F (ADJ.). IF THE PREHEAT TEMPERATURE SENSOR FAILS AND THE OUTDOOR AIR TEMPERATURE IS BELOW 45.0 DEG. F (ADJ.) THE PREHEAT VALVE SHALL BE FULLY OPEN AND THE BYPASS DAMPER(S) SHALL OPEN TO 50% (ADJ.) TO THE FACE OF THE COIL. IF THE PREHEAT TEMPERATURE SENSOR FAILS AND THE OUTDOOR AIR TEMPERATURE IS ABOVE 50.0 DEG. F (ADJ.) THE PREHEAT VALVE SHALL BE COMMANDED OPEN AND THE BYPASS DAMPER(S) SHALL CLOSE TO 0% (ADJ.) TO THE FACE OF THE COIL. AN ALARM SHALL ANNUNCIATE AT THE BAS IF THE LEAVING PREHEAT TEMPERATURE SENSOR OR THE OUTDOOR AIR TEMPERATURE SENSOR FAIL.
DISCHARGE AIR TEMPERATURE CONTROL:
IF THE DISCHARGE AIR TEMPERATURE RISES ABOVE THE MAXIMUM LIMIT OF 80.0 DEG. F (ADJ.), A HIGH TEMPERATURE ALARM SHALL ANNUNCIATE TO THE BAS. IF THE DISCHARGE AIR TEMPERATURE DROPS BELOW THE MINIMUM LIMIT OF 60.0 DEG. F (ADJ.), A LOW TEMPERATURE ALARM SHALL ANNUNCIATE TO THE BAS, AND THE UNIT SHALL SHUT DOWN.
OCCUPIED HUMIDITY CONTROL:
IF THE SPACE RELATIVE HUMIDITY IS GREATER THAN 50% (ADJ.), THE CHILLED WATER VALVE SHALL MODULATE TO MAINTAIN SPACE RELATIVE HUMIDITY SETPOINT OF 50% (ADJ.) AND THE REHEAT VALVE SHALL MODULATE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SETPOINT. MODE SHALL TERMINATE WHEN THE SPACE RELATIVE HUMIDITY FALLS BELOW THE RELATIVE HUMIDITY SETPOINT OF 50% (ADJ.) MINUS 3% (ADJ.). IF THE SPACE RELATIVE HUMIDITY SENSOR FAILS THE DEHUMIDIFICATION SEQUENCE SHALL BE TERMINATED AND AN ALARM SHALL ANNUNCIATE AT THE BAS.
FREEZE PROTECTION:
A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH SHALL BE ELECTRICALLY INTERLOCKED WITH THE MOTOR STARTER. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED 38.0 DEG. F (ADJ.), THE FAN SHALL BE COMMANDED OFF AND THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE. ALL VALVES SHALL BE COMMANDED OPEN TO 100% OPEN. THE FACE AND BYPASS DAMPER(S) SHALL BE OPENED FULLY TO THE FACE OF THE COIL. AN ALARM SHALL ANNUNCIATE AT THE BAS AND MANUAL RESET OF THE LOW LIMIT TEMPERATURE SWITCH SHALL BE REQUIRED TO RESTART THE FAN.
CONDENSATE OVERFLOW MONITORING:
IF THE CONDENSATE LEVEL REACHES THE TRIP POINT, A CONDENSATE OVERFLOW DIAGNOSTIC SHALL ANNUNCIATE AT THE BAS. TO PREVENT THE CONDENSATE DRAIN PAN FROM OVERFLOWING AND CAUSING WATER DAMAGE TO THE BUILDING THE SUPPLY FAN SHALL BE DISABLED, THE OUTSIDE AIR DAMPER SHALL FULLY CLOSE, AND ALL VALVES SHALL FULLY CLOSE.
FILTER STATUS:
A DIFFERENTIAL PRESSURE SWITCH SHALL MONITOR THE DIFFERENTIAL PRESSURE ACROSS THE FILTER(S) WHEN THE FAN IS RUNNING. IF THE SWITCH CLOSES DURING NORMAL OPERATION A DIRTY FILTER ALARM SHALL ANNUNCIATE AT THE BAS.
INDOOR AIR QUALITY AIR CLEANING
WHEN THE SUPPLY FAN IS ON, THE C-BAND ULTRA VIOLET GERMICIDAL IRRADIATION AIR CLEANING LAMPS SHALL BE ENABLED. WHEN THE AIR CLEANING ACCESS DOOR IS OPENED, THE DOOR INTERLOCK SAFETY CUT-OFF SWITCH SHALL OPEN AND DISABLE THE UV LAMPS.
SMOKE DETECTOR SHUTDOWN:
THE UNIT SHALL SHUT DOWN IN RESPONSE TO A SIGNAL FROM THE SMOKE DETECTOR INDICATING THE PRESENCE OF SMOKE. THE SMOKE DETECTOR SHALL BE INTERLOCKED TO THE UNIT THROUGH THE DRY CONTACTS OF THE SMOKE DETECTOR. A MANUAL RESET OF THE SMOKE DETECTOR SHALL BE REQUIRED TO RESTART THE UNIT.

GENERAL NOTES:

1. POWER WIRING TO EXHAUST FAN MOTOR BY ELECTRICAL CONTRACTOR.



EXHAUST FAN WITH SPEED CONTROLLER SEQUENCE OF OPERATION:
EXHAUST FAN SHALL BE STARTED AND STOPPED BY DDC PANEL DIGITAL OUTPUT. EXHAUST FAN SHALL TYPICALLY BE IN OPERATION AT ALL TIMES THE BUILDING IS OCCUPIED (UNLESS SPECIFIED DIFFERENTLY ELSEWHERE). EXHAUST FAN SPEED SHALL BE SET BY THE TAB CONTRACTOR.

ALARM MONITORING:
AN ALARM WILL BE GENERATED AT THE EMS IF ANY OF THE FOLLOWING OCCUR:
1. EXHAUST FAN FAILURE

2 GENERAL EXHAUST FAN CONTROL DIAGRAM
SCALE: NTS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

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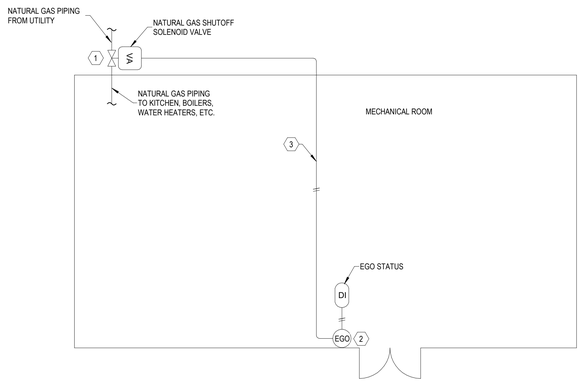
UAFAPH-21.01
Date
12.18.2025
Title

MECHANICAL CONTROLS

Sheet No.
M6.03

DIAGRAM GENERAL & KEYED NOTES:

1. NATURAL GAS SHUTOFF VALVE FURNISHED BY ATC CONTRACTOR AND INSTALLED IN GAS PIPING BY MECHANICAL CONTRACTOR.
2. EMERGENCY NATURAL GAS SHUTOFF SWITCH WITH COVER FURNISHED AND INSTALLED AT EACH EXIT FROM THE MECHANICAL ROOM BY ATC CONTRACTOR.
3. CONTROL WIRING FURNISHED AND INSTALLED BY ATC CONTRACTOR.

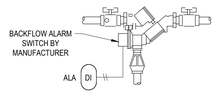


NATURAL GAS SYSTEM SEQUENCE OF OPERATION:

EMERGENCY NATURAL GAS SHUTOFF (EGO) SWITCHES SHALL BE FURNISHED AND INSTALLED AT ALL EXISTS TO THE MECHANICAL ROOM BY THE ATC CONTRACTOR. ACTIVATION OF ANY EGO SHALL CLOSE THE NATURAL GAS SHUTOFF SOLENOID VALVE AND GENERATE AN ALARM AT THE BAS.

6 NATURAL GAS SYSTEM CONTROL DIAGRAM

SCALE: NTS



DOMESTIC WATER BACKFLOW PREVENTERS:
THE BACKFLOW PREVENTER IS PROVIDED WITH A SET OF ALARM CONTACTS FOR THE DDC PANEL DIGITAL INPUT TO MONITOR EXCESS FLOW ALARM.

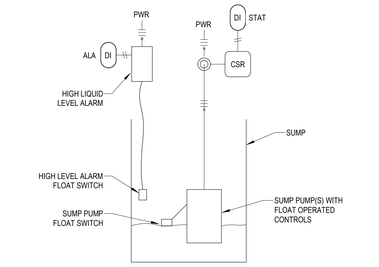
ALARM MONITORING:
AN ALARM SHALL BE GENERATED AT THE BAS IF ANY OF THE FOLLOWING OCCUR:
1. EXCESS RELIEF WATER FLOW.

GENERAL NOTES:

1. ALARM SWITCH FURNISHED AND INSTALLED BY BACKFLOW PREVENTER MANUFACTURER. WIRED BY THE ATC CONTRACTOR.

5 DOMESTIC WATER BACKFLOW PREVENTER CONTROL DIAGRAM

SCALE: NTS



SUMP PUMP SEQUENCE OF OPERATION (SP):
THE SUMP PUMP(S) ARE AUTOMATICALLY STARTED AND STOPPED BY FLOAT CONTROLS FURNISHED WITH SUMP PUMP(S). DDC PANEL DIGITAL INPUT WILL MONITOR SUMP PUMP(S) HIGH WATER ALARM AND SUMP PUMP(S) RUN STATUS. DUPLEX SUMP PUMPS WILL HAVE TWO (2) PUMP STATUS POINTS.

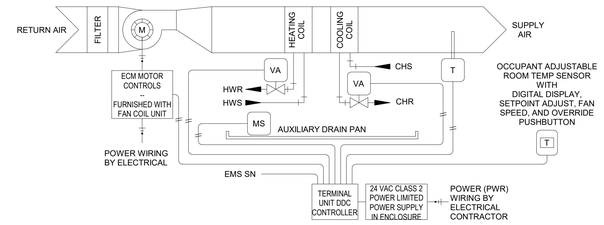
ALARM MONITORING:
AN ALARM WILL BE GENERATED AT THE BAS IF ANY OF THE FOLLOWING OCCUR:
1. HIGH WATER LEVEL IN SUMP.

GENERAL NOTES:

1. POWER WIRING (PWR) BY THE ELECTRICAL CONTRACTOR.
2. SUMP PUMP SHALL BE FURNISHED WITH HIGH SUMP LEVEL ALARM WITH AUXILIARY CONTACTS.

4 SUMP PUMP CONTROL DIAGRAM

SCALE: NTS



HEATING AND COOLING FAN COIL UNIT WITH ECM MOTOR SEQUENCE OF OPERATION:

1. **MODE OF OPERATION :**
THE FAN COIL UNIT MODE OF OPERATION SHALL BE EITHER OCCUPIED OR UNOCCUPIED BASED ON A SCHEDULE COMMUNICATED FROM THE EMS, AN OPERATOR OVERRIDE COMMAND FROM THE EMS, OR AN OCCUPANCY OVERRIDE SIGNAL FROM THE SPACE TEMPERATURE SENSOR.

2. **OCCUPIED MODE**
THE FAN COIL UNIT SHALL MODULATE THE FAN SPEED AN THE HEATING AND COOLING COIL CONTROL VALVES TO MAINTAIN THE SPACE TEMPERATURE SETPOINT. FAN SPEED SHALL BE OCCUPANT SELECTABLE FOR MANUAL SPEED CONTROL OR AUTOMATIC SPEED CONTROL AS DESCRIBED BELOW.

THE SPACE TEMPERATURE SETPOINT SHALL BE ADJUSTABLE BY THE OCCUPANT AT THE THERMOSTAT BETWEEN A MINIMUM OF 68ºF AND A MAXIMUM OF 75ºF. THE SPACE COOLING SETPOINT SHALL BE EQUAL TO THE SPACE TEMPERATURE SETPOINT PLUS 1ºF AND THE SPACE HEATING SETPOINT SHALL BE EQUAL TO THE SPACE TEMPERATURE SETPOINT MINUS 1ºF.

ON AN INCREASE IN SPACE TEMPERATURE ABOVE THE OCCUPIED SPACE COOLING SETPOINT, THE DDC CONTROL SHALL CYCLE THE FAN COIL UNIT FAN ON AT MINIMUM SPEED. THE DDC CONTROLS SHALL THEN MODULATE THE COOLING COIL CONTROL VALVE TO MAINTAIN THE OCCUPIED SPACE COOLING SETPOINT. IF THE SPACE TEMPERATURE REMAINS ABOVE THE COOLING SETPOINT WITH THE COOLING VALVE FULLY OPEN THE DDC CONTROLS SHALL INCREASE THE FAN SPEED TO SATISFY THE SPACE COOLING SETPOINT. ON A DECREASE IN SPACE TEMPERATURE BELOW THE OCCUPIED SPACE COOLING SETPOINT THE REVERSE ACTION SHALL OCCUR.

ON AN DECREASE IN SPACE TEMPERATURE BELOW THE OCCUPIED SPACE HEATING SETPOINT, THE DDC CONTROL SHALL CYCLE THE FAN COIL UNIT FAN ON AT MINIMUM SPEED. THE DDC CONTROLS SHALL THEN MODULATE THE HEATING COIL CONTROL VALVE TO MAINTAIN THE OCCUPIED SPACE HEATING SETPOINT. IF THE SPACE TEMPERATURE REMAINS BELOW THE SPACE HEATING SETPOINT WITH THE HEATING VALVE FULLY OPEN, THE DDC CONTROLS SHALL INCREASE THE FAN SPEED TO SATISFY THE SPACE HEATING SETPOINT. ON A INCREASE IN SPACE TEMPERATURE ABOVE THE OCCUPIED SPACE HEATING SETPOINT THE REVERSE ACTION SHALL OCCUR.

3. **UNOCCUPIED MODE:**
THE UNOCCUPIED SPACE TEMPERATURE SETPOINTS SHALL BE 65ºF SPACE HEATING SETPOINT AND 80ºF SPACE COOLING SETPOINT.

WHEN THE SPACE TEMPERATURE IS BETWEEN THE UNOCCUPIED SPACE HEATING AND SPACE COOLING SETPOINTS, THE FAN COIL UNIT FAN SHALL BE OFF AND THE HEATING AND COOLING COIL CONTROL VALVES SHALL BE CLOSED.

ON A DECREASE IN SPACE TEMPERATURE BELOW THE UNOCCUPIED SPACE HEATING SETPOINT, THE FAN COIL UNIT FAN SHALL CYCLE ON AT MAXIMUM SPEED, THE HEATING COIL CONTROL VALVE SHALL OPEN 100%, AND THE COOLING COIL CONTROL VALVE SHALL REMAIN CLOSED. WHEN SPACE TEMPERATURE IS 3ºF ABOVE THE UNOCCUPIED HEATING SETPOINT, THE FAN SHALL STOP, AND THE HEATING COIL CONTROL VALVE SHALL CLOSE.

ON AN INCREASE IN SPACE TEMPERATURE ABOVE THE UNOCCUPIED SPACE COOLING SETPOINT, THE FAN COIL UNIT FAN SHALL CYCLE ON AT MAXIMUM SPEED, THE COOLING COIL CONTROL VALVE SHALL OPEN 100%, AND THE HEATING COIL CONTROL VALVE SHALL REMAIN CLOSED. WHEN SPACE TEMPERATURE IS 3ºF BELOW THE UNOCCUPIED COOLING SETPOINT, THE FAN SHALL STOP, AND THE COOLING COIL CONTROL VALVE SHALL CLOSE.

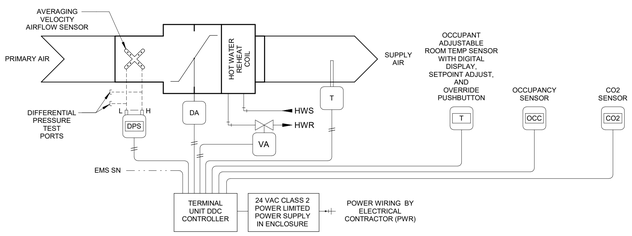
4. **WINDOW SENSOR:**
THE WINDOWS IN THE BEDROOMS ARE EQUIPPED WITH A SENSOR THAT WILL INDICATE WINDOW CLOSURE. INTERLOCK FAN COIL UNITS TO THE WINDOW SENSOR. WHEN THE WINDOW SENSOR INDICATES THAT THE WINDOW IS OPEN, THE FAN COILS UNIT SHALL SHUT DOWN. THE SUPPLY FAN SHALL BE OFF AND THE CHILLED WATER AND HEATING WATER VALVES SHALL FULLY CLOSE.

5. **SETPOINTS AND PARAMETERS:**
ALL CONTROL BANDS, SETPOINTS, SETPOINT LIMITS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES, TIME DELAYS, EQUIPMENT ROTATION SEQUENCES, AND OTHER PARAMETERS SHALL BE ADJUSTABLE FROM THE EMS. ALL PARAMETERS SHALL BE COMMISSIONED BY THE ATC CONTRACTOR TO PROVIDE STABLE CONTROL OF ALL SYSTEMS.

6. **ALARM MONITORING :**
AN ALARM WILL BE GENERATED AT THE EMS PC WORKSTATION IF ANY OF THE FOLLOWING OCCUR:
A. HIGH LEAVING AIR TEMPERATURE
B. LOW LEAVING AIR TEMPERATURE
C. SPACE HIGH TEMPERATURE
D. SPACE LOW TEMPERATURE
E. FILTER RUN TIME EXCEEDED

2 FAN COIL UNIT CONTROL DIAGRAM

SCALE: NTS



SEQUENCE OF OPERATION: VAV TERMINAL UNIT:
OCCUPIED:
THE OCCUPANCY MODE SHALL BE COMMUNICATED TO THE CONTROLLER VIA A BINARY INPUT. WHEN THE UNIT IS IN THE OCCUPIED MODE, THE VAV SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE OCCUPIED HEATING OR COOLING SETPOINT. APPLICABLE VENTILATION AND AIRFLOW SETPOINTS SHALL BE ENFORCED. THE OCCUPIED MODE SHALL BE THE DEFAULT MODE OF THE VAV.
OCCUPIED STANDBY:
THE OCCUPANCY MODE SHALL BE COMMUNICATED TO THE CONTROLLER VIA A BINARY INPUT, EVEN THOUGH THE BAS HAS SCHEDULED THE SPACE AS OCCUPIED. IN THE OCCUPIED STANDBY MODE, THE ACTIVE COOLING AND HEATING SETPOINTS SHALL BE RELAXED (SEE COOLING AND HEATING MODE) AND BOTH THE VENTILATION AIRFLOW AND MINIMUM AIRFLOW SETPOINTS SHALL BE LOWERED (SEE VAV SCHEDULE).
UNOCCUPIED:
NORMAL OPERATING MODE FOR UNOCCUPIED SPACES OR NIGHTTIME OPERATION. WHEN THE UNIT IS IN UNOCCUPIED MODE THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE STORED UNOCCUPIED HEATING OR COOLING SETPOINT REGARDLESS OF THE PRESENCE OF A COMMUNICATED SETPOINT. WHEN THE SPACE TEMPERATURE DROPS BELOW ITS UNOCCUPIED HEATING SETPOINT, THE CONTROLLER SHALL MODULATE THE AIR DAMPER AND THE HOT WATER VALVE UNTIL THE ZONE TEMPERATURE RISES BACK TO 2.0 DEG. F ABOVE THE UNOCCUPIED HEATING SETPOINT. WHEN THE SPACE TEMPERATURE EXCEEDS THE ACTIVE UNOCCUPIED SETPOINT THE HOT WATER VALVE SHALL THE AIR DAMPER AND HOT WATER VALVE SHALL MODULATE FULLY CLOSED.
OCCUPIED BYPASS:
MODE USED TO TEMPORARILY PLACE THE UNIT INTO THE OCCUPIED OPERATION. TENANTS SHALL BE ABLE TO OVERRIDE THE UNOCCUPIED MODE FROM THE SPACE SENSOR. THE OVERRIDE SHALL LAST FOR A MAXIMUM OF 4 HOURS (ADJ.). THE TENANTS SHALL BE ABLE TO CANCEL THE OVERRIDE FROM THE SPACE SENSOR AT ANY TIME. DURING THE OVERRIDE THE UNIT SHALL OPERATE IN OCCUPIED MODE.
HEAT/COOL SETPOINT:
THE SPACE TEMPERATURE SETPOINT SHALL BE DETERMINED EITHER BY A LOCAL SETPOINT AT THE THERMOSTAT, THE VAV DEFAULT SETPOINT, OR A COMMUNICATED VALUE. THE VAV SHALL USE THE LOCALLY STORED DEFAULT SETPOINTS WHEN NEITHER A LOCAL SETPOINT NOR COMMUNICATED SETPOINT IS PRESENT. IF BOTH A LOCAL SETPOINT AND COMMUNICATED SETPOINT EXIST, THE VAV SHALL USE THE COMMUNICATED VALUE.
COOLING MODE:
WHEN THE UNIT IS N COOLING MODE. THE VAV CONTROLLER SHALL MAINTAIN THE SPACE TEMPERATURE AT THE ACTIVE COOLING SETPOINT BY MODULATING THE AIRFLOW BETWEEN THE ACTIVE COOLING MINIMUM AIRFLOW SETPOINT TO THE MAXIMUM COOLING AIRFLOW SETPOINT. THE VAV SHALL USE THE MEASURED SPACE TEMPERATURE AND THE ACTIVE COOLING SETPOINT TO DETERMINE THE REQUESTED COOLING CAPACITY OF THE UNIT. THE OUTPUTS SHALL BE CONTROLLED BASED ON THE UNIT CONFIGURATION AND THE REQUESTED COOLING CAPACITY.
BASED ON THE VAV CONTROLLER OCCUPANCY MODE, THE ACTIVE COOLING SETPOINT SHALL BE ONE OF THE FOLLOWING:

SETPOINT	DEFAULT VALUE
OCCUPIED COOLING SETPOINT	72.0 DEG. F
UNOCCUPIED COOLING SETPOINT	82.0 DEG. F
OCCUPIED STANDBY COOLING SETPOINT	78.0 DEG. F
OCCUPIED MIN COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE
OCCUPIED MAX COOLING AIRFLOW SETPOINT	SEE VAV SCHEDULE

HEATING MODE:
REHEAT SHALL ONLY BE ALLOWED WHEN THE SUPPLY AIR TEMPERATURE IS 5.0 DEG. F BELOW THE CONFIGURED REHEAT ENABLE SETPOINT OF 70.0 DEG. F (ADJ.). THE REHEAT SHALL BE ENABLED WHEN THE SPACE TEMPERATURE DROPS BELOW THE ACTIVE HEATING SETPOINT AND THE MINIMUM AIRFLOW REQUIREMENTS ARE MET. DURING REHEAT THE VAV SHALL OPERATE AT ITS MINIMUM HEATING AIRFLOW SETPOINT AND ENERGIZE THE HEAT AS REQUIRED, WHILE MAINTAINING A MAXIMUM DISCHARGE AIR TEMPERATURE OF 20 DEG. F ABOVE THE SPACE HEATING SETPOINT. IF THE AIRFLOW IS AT ITS MINIMUM POSITION AND THE HEATING WATER VALVE IS FULLY OPEN, THE AIRFLOW SHALL BE INCREASED GRADUALLY UP TO ITS MAXIMUM POSITION TO MAINTAIN THE SETPOINT AS REQUIRED, WHILE MAINTAINING A MAXIMUM DISCHARGE AIR TEMPERATURE OF 20 DEG. F ABOVE THE SPACE HEATING SETPOINT
BASED ON THE VAV CONTROLLER OCCUPANCY MODE, THE ACTIVE HEATING SETPOINT SHALL BE ONE OF THE FOLLOWING:

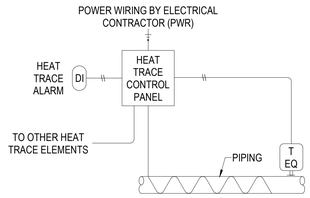
SETPOINT	DEFAULT VALUE
OCCUPIED HEATING SETPOINT	70.0 DEG. F
UNOCCUPIED HEATING SETPOINT	60.0 DEG. F
OCCUPIED STANDBY HEATING SETPOINT	67.0 DEG. F
OCCUPIED MIN HEATING AIRFLOW SETPOINT	SEE VAV SCHEDULE
OCCUPIED MAX HEATING AIRFLOW SETPOINT	SEE VAV SCHEDULE

AIR VALVE CONTROL:
CO2 -BASED, DEMAND-CONTROLLED VENTILATION: WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL BE CONTINUOUSLY CALCULATED USING THE MEASURED CO2 CONCENTRATION IN THE SPACE.
DEMAND CONTROL VENTILATION:
WHEN THE UNIT IS IN UNOCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL BE ZERO. WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL BE EQUAL THE DESIGN OUTDOOR AIRFLOW AND RESET BASED ON OCCUPANCY AND CO2.
OCCUPANCY SENSOR: WHEN THE UNIT IS IN OCCUPIED MODE, AND THE OCCUPANCY SENSOR INDICATES THAT THE SPACE IS CURRENTLY UNOCCUPIED, THE VENTILATION AIRFLOW SETPOINT SHALL BE THE "OCCUPIED" AIRFLOW (SEE VAV SCHEDULE).
CO2 SENSOR: WHEN THE UNIT IS IN OCCUPIED MODE, THE VENTILATION AIRFLOW SETPOINT SHALL BE CONTINUOUSLY CALCULATED USING THE MEASURED CO2 CONCENTRATION IN THE SPACE.
THE CURRENT VENTILATION AIRFLOW SETPOINT SHALL BE COMMUNICATED TO THE BAS FOR CONTROL OF THE SYSTEM OUTDOOR-AIR INTAKE.
SPACE SENSOR FAILURE:
IF THERE IS A FAULT WITH THE OPERATION OF THE ZONE SENSOR AN ALARM SHALL BE ANNUNCIATED AT THE BAS. SPACE SENSOR FAILURE SHALL CAUSE THE VAV TO DRIVE THE DAMPER TO MINIMUM AIR FLOW IF THE VAV IS IN THE OCCUPIED MODE, OR DRIVE IT CLOSED IF THE VAV IS IN THE UNOCCUPIED MODE.

VAV-1-6:
INTERLOCK WITH KITCHEN HOOD EXHAUST FAN. WHEN KITCHEN HOOD EXHAUST FAN IS IN OPERATION, VAV SHALL OPEN TO MAXIMUM AIRFLOW. IT SHALL RESUME TO NORMAL OPERATION WHEN KITCHEN HOOD EXHAUST FAN IS OFF.

1 SUPPLY AIR TERMINAL UNIT CONTROL DIAGRAM

SCALE: NTS



PIPING HEAT TRACE SEQUENCE OF OPERATION:

MODE OF OPERATION
THE HEAT TRACE CONTROLLER MODULATES THE HEAT TRACE ELEMENT TO PREVENT PIPE FREEZING.

ALARM MONITORING
AN ALARM WILL BE GENERATED AT THE EMS PC WORKSTATION IF ANY OF THE FOLLOWING OCCUR:
1. HEAT TRACE CONTROL FAILURE.

GENERAL NOTES:

1. HEAT TRACE CONTROLLER; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR; POWER WIRING BY ELECTRICAL CONTRACTOR; CONTROL AND INTERLOCK WIRING BY ATC CONTRACTOR.
2. HEAT TRACE ELEMENTS; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR ON PIPING PER MANUFACTURERS RECOMMENDATIONS.
3. HEAT TRACE SENSOR; FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR.

3 PIPING HEAT TRACE CONTROL DIAGRAM

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CONSTRUCTION DOCUMENTS

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Title

MECHANICAL CONTROLS

Sheet No.
M6.04

Project Name
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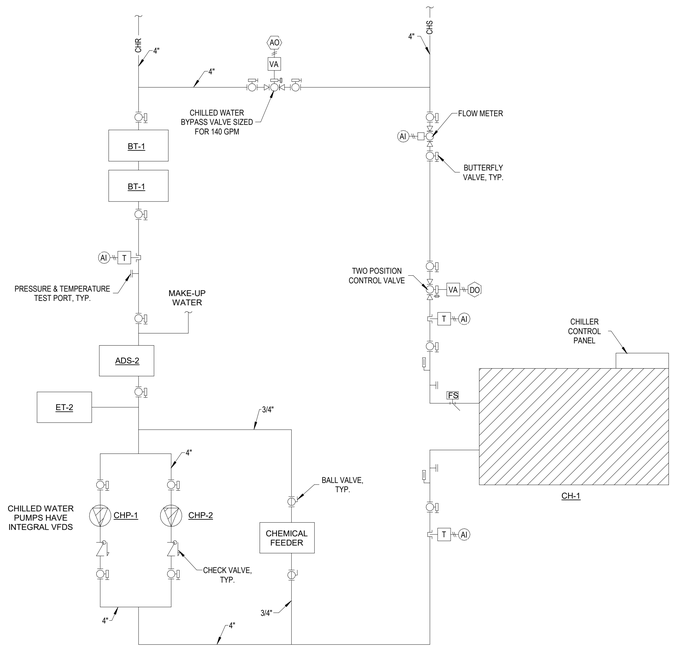
GENERAL NOTES:

1. POWER WIRING (PWR) BY THE ELECTRICAL CONTRACTOR. ATC CONTRACTOR IS RESPONSIBLE FOR POWER WIRING FROM FIELD EQUIPMENT PANEL TO CONTROLS REQUIRING POWER.
2. VARIABLE FREQUENCY DRIVES. FURNISHED WITH PUMPS.
3. CONTROL VALVES ARE FURNISHED AND WIRED BY THE ATC CONTRACTOR; INSTALLED IN THE PIPING BY THE MECHANICAL CONTRACTOR.
4. THERMAL WELLS FOR TEMPERATURE SENSORS FURNISHED BY THE ATC CONTRACTOR, INSTALLED IN THE PIPES BY THE MECHANICAL CONTRACTOR.
5. TAPS FOR PRESSURE SENSORS ARE FURNISHED AND INSTALLED IN THE PIPES BY THE MECHANICAL CONTRACTOR.
6. CHILLER CONTROL PANEL SHALL BE FURNISHED WITH A BACNET COMMUNICATION INTERFACE FOR INTEGRATION INTO THE EMS. COMMUNICATION WIRING BY THE ATC CONTRACTOR.
7. ELECTRONIC WATER FLOW SENSOR TO BE FURNISHED BY THE ATC CONTRACTOR, INSTALLED IN PIPING BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ATC CONTRACTOR.



1 CHILLED WATER PIPING CONTROL DIAGRAM

SCALE: NTS

SEQUENCE OF OPERATION: COOLING PLANT SYSTEMS

SYSTEM GENERAL DESCRIPTION:
THE COOLING PLANT CONTROL SYSTEM MONITORS AND CONTROLS THE PLANT CHILLER(S), VARIABLE-SPEED CHILLED WATER PUMPS, AND CHILLED WATER CONTROL VALVES, AS SHOWN ON THE PLANT FLOW DIAGRAM. THE PLANT CONSISTS OF AN AIR-COOLED CHILLER PIPED IN A VARIABLE-PRIMARY CONFIGURATION SUPPLYING CHILLED WATER TO THE BUILDING. THE CHILLED WATER DISTRIBUTION PUMPS ARE MANIFOLDED AND CONFIGURED FOR LEAD/LAG OPERATION WITH AUTOMATIC WEEKLY ROTATION.

PLANT ENABLE / DISABLE:
THE COOLING PLANT CONTROLLER ACCEPTS AN ENABLE/DISABLE FROM THE BUILDING AUTOMATION SYSTEM (BAS) OPERATOR INTERFACE OR THE BAS TIME-OF-DAY SCHEDULE.
THE SYSTEM IS INTENDED TO BE ENABLED AT ALL TIMES UNLESS INTENTIONALLY TAKEN OFFLINE FOR SERVICE.

WHEN THE PLANT IS ENABLED:
THE CONTROLLER SENDS AN ENABLE SIGNAL TO THE CHILLED WATER PUMPS (VSD RUN-ENABLE CONTACT CLOSURE).
WHEN THE PUMP(S) ARE ENABLED AND THE CHILLER FLOW SWITCH INDICATES FLOW, THE CONTROLLER MAY ENABLE THE CHILLER START SEQUENCE (PER CHILLER MANUFACTURER/START-UP INTERLOCKS).

WHEN THE PLANT IS DISABLED:
ALL CHILLER START REQUESTS ARE REMOVED AND CHILLED WATER PUMPS ARE COMMANDED OFF. THE PLANT IS CONSIDERED DISABLED WHEN NO CHILLER IS ENABLED AND THERE IS NO ACTIVE PUMP REQUEST.

CHILLED WATER PUMP COMMANDS / START-STOP:
WHEN THE PLANT IS ENABLED AND THERE IS A CHILLED WATER PUMP REQUEST, THE BAS WILL START A PUMP BY CLOSING THE PUMP VSD RUN-ENABLE CONTACT.
PUMP RUN STATUS IS MONITORED VIA THE VSD CURRENT SWITCH AND/OR THE VSD RUN FEEDBACK SIGNAL.
PUMPS OPERATE IN A LEAD/LAG ROTATION. THE ROTATION SCHEDULE SHALL BE WEEKLY AND BASED ON ACCUMULATED RUN-TIME: THE PUMP WITH THE LEAST TOTAL RUN-TIME IS DESIGNATED LEAD, THE NEXT IS LAG, ETC.

FROM THE BAS OPERATOR INTERFACE, AN OPERATOR MAY:
MANUALLY SET A SPECIFIC PUMP AS LEAD.
REMOVE A PUMP FROM ROTATION (SET AS UNAVAILABLE),
FORCE A PUMP ON (MANUAL OVERRIDE).

MINIMUM RUN TIME: WHEN A PUMP IS STARTED, IT SHALL RUN A MINIMUM TIME OF 5 MINUTES (ADJ) BEFORE BEING ALLOWED TO BE TRIPPED FOR LOAD-BASED REASONS (TO PREVENT SHORT-CYCLING).

LEAD/LAG AUTO-START & STOP LOGIC:
IF THE CHILLED WATER SYSTEM DIFFERENTIAL PRESSURE FALLS 0.5 PSID (ADJ) BELOW SETPOINT AND THE LEAD PUMP IS AT 100% SPEED (ADJ) FOR LONGER THAN 5 MINUTES (ADJ), THE CONTROLLER SHALL START THE NEXT PUMP IN THE ROTATION.
IF ANY OPERATING PUMP'S SPEED CONTROL OUTPUT IS BELOW 60% (ADJ) FOR MORE THAN 5 MINUTES (ADJ) AND BOTH PUMPS RUNNING, THE LAST STARTED PUMP MAY BE STAGED OFF (RETURNED TO STANDBY) TO SAVE ENERGY, PROVIDED THAT REMOVING IT WILL NOT DROP THE DIFFERENTIAL PRESSURE BELOW MINIMUM REQUIRED LIMITS AND MINIMUM RUN TIME HAS BEEN MET.

CHILLED WATER PUMP SPEED CONTROL:
THE SYSTEM MONITORS THE CHILLED WATER PUMP DIFFERENTIAL PRESSURE AS SENSED BY THE PUMP.
WHEN A PUMP VSD IS ENABLED, THE BAS CONTROLS THE ANALOG SPEED COMMAND TO THE PUMP VSD TO MAINTAIN THE CHILLED WATER PUMP DIFFERENTIAL PRESSURE AT ITS SETPOINT (DEFAULT SETPOINT 15 PSID, ADJ., FINAL SETPOINT SET BY TAB CONTRACTOR).
THE PUMP DIFFERENTIAL-PRESSURE SETPOINT SHALL BE BOUNDED BY A MINIMUM AND MAXIMUM: MINIMUM EQUAL TO 5 PSID (ADJ) AND A MAXIMUM EQUAL TO 25 PSID (ADJ).

CHILLED WATER PUMP FAILURE:
IF THE LEAD PUMP RUN-ENABLE IS COMMANDED ON BUT THE VSD RUN FEEDBACK OR CURRENT SWITCH INDICATES THE PUMP IS NOT RUNNING WITHIN 30 SECONDS (ADJ), THE BAS SHALL:
ANNUNCIATE A "CHILLED WATER PUMP FAILURE" ALARM TO BAS OPERATOR SCREENS AND TO ALARM NOTIFICATION.
START THE NEXT PUMP IN THE ROTATION.
ONCE THE FAULT IS CORRECTED, THE OPERATOR MAY CLEAR THE ALARM FROM THE BAS OPERATOR INTERFACE OR MANUALLY OVERRIDE THE PUMP TO START IT; THIS ACTION WILL RE-ENABLE THE LEAD/STANDBY ROTATION SEQUENCE (RESPECTING MINIMUM RUN-TIME AND SEQUENCING RULES).

CHILLER MINIMUM FLOW / BYPASS VALVE:
THE BAS SHALL MONITOR THE CHILLER EVAPORATOR DIFFERENTIAL PRESSURE (OR MANUFACTURER-SPECIFIED FLOW INDICATION).
IF EVAPORATOR DIFFERENTIAL INDICATES LOW FLOW (BELOW CHILLER MINIMUM FLOW THRESHOLD), THE BAS SHALL MODULATE THE CHILLED-WATER BYPASS VALVE OPEN TO MAINTAIN THE REQUIRED MINIMUM EVAPORATOR FLOW/PRESSURE. THIS PREVENTS CHILLER DAMAGE DUE TO LOW FLOW.

OPTIMIZED DISTRIBUTION PUMP DIFFERENTIAL PRESSURE CONTROL (TRIM & RESPOND):
THE BAS SHALL IMPLEMENT TRIM-AND-RESPOND LOGIC PER ASHRAE GUIDELINE 36 TO OPTIMIZE THE CHILLED WATER DISTRIBUTION DIFFERENTIAL-PRESSURE SETPOINT.
AT STARTUP: SET THE CHILLED WATER SYSTEM PRESSURE SETPOINT TO THE SYSTEM DESIGN VALUE (AS SET BY TAB CONTRACTOR). IN NORMAL OPERATION, THE PUMP DIFFERENTIAL-PRESSURE SETPOINT SHALL BE CONSTRAINED BETWEEN A MINIMUM EQUAL TO 5 PSI (ADJ) AND A MAXIMUM EQUAL TO 25 PSI (ADJ).
EVERY 10 MINUTES (ADJ), THE CONTROL SYSTEM SHALL EVALUATE COOLING REQUESTS AND ADJUST SETPOINT AS FOLLOWS:
CONSIDER ONLY AHUS / FCU LOADS THAT HAVE BEEN OPERATING IN COOLING MODE FOR AT LEAST 15 MINUTES (ADJ).

FOR EACH AHU OR FCU LOAD:
IF THE CHILLED WATER VALVE >= 95% OPEN: SEND 1 REQUEST. CONTINUE SENDING 1 REQUEST EVERY 10-MIN INTERVAL UNTIL VALVE < 70% (ADJ).
IF THE CHILLED WATER VALVE < 95%: SEND 0 REQUESTS.
THE BAS SHALL IGNORE THE FIRST N REQUESTS AFTER STARTUP WHERE N = IGNORES (ADJ). DEFAULT IGNORES SHOULD BE SELECTED TO AVOID OSCILLATION. NOTE: SET IGNORES ≥ 40% OF THE NUMBER OF AHUS SERVED AT STARTUP (ADJ).
IF (REQUESTS > IGNORES): INCREASE PUMP DIFFERENTIAL SETPOINT BY ((REQUESTS − IGNORES) × 3 PSI) (ADJ), BUT INCREASE NO MORE THAN +10 PSI (ADJ) IN A SINGLE ADJUSTMENT.
IF (REQUESTS ≤ IGNORES): REDUCE SETPOINT BY 2 PSI (ADJ).
ALL CHANGES SHALL REMAIN WITHIN THE DEFINED MINIMUM AND MAXIMUM BOUNDS.

CHILLED WATER VALVES MAY BE MANUALLY REMOVED FROM THE LOGIC IF NEEDED.

ALARMS, SAFETIES & OPERATOR ACTIONS:
ALARMS TO THE BAS INCLUDE: PUMP FAILURE, LOSS OF FLOW AT THE CHILLER FLOW SWITCH, CHILLER LOW EVAPORATOR FLOW, VSD FAULT, OVERCURRENT, AND ANY CHILLER INTERLOCKS.
PROVIDE OPERATOR SCREENS FOR: PUMP STATUS AND RUN-TIME TOTALS, PUMP AVAILABILITY (IN/OUT OF ROTATION), DIFFERENTIAL-PRESSURE SETPOINT AND PRESENT VALUE, MANUAL LEAD/LAG CONTROL, AND ALARM ACKNOWLEDGEMENT/CLEAR.
ALL SETPOINTS LABELED (ADJ) SHALL BE COMMISSIONED AND DOCUMENTED.

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CERTIFICATE OF AUTHORIZATION — PRIGM ENGINEERING, PLLC — No. 3588 — ARKANSAS

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK HOWSE

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

MECHANICAL CONTROLS

Sheet No.

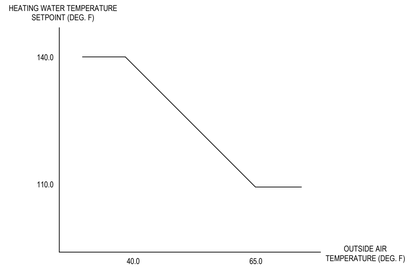
M6.05

GENERAL NOTES:

1. POWER WIRING (PWR) BY THE ELECTRICAL CONTRACTOR. ATC CONTRACTOR IS RESPONSIBLE FOR POWER WIRING FROM FIELD EQUIPMENT PANEL TO CONTROLS REQUIRING POWER.
2. VARIABLE FREQUENCY DRIVES. FURNISHED WITH PUMPS.
3. MOTOR STARTER(S) FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. BOILER ISOLATION CONTROL VALVES ARE FURNISHED AND WIRED BY THE ATC CONTRACTOR; INSTALLED IN THE PIPING BY THE MECHANICAL CONTRACTOR.
5. THERMAL WELLS FOR TEMPERATURE SENSORS FURNISHED BY THE ATC CONTRACTOR, INSTALLED IN THE PIPES BY THE MECHANICAL CONTRACTOR.
6. BOILERS AND BOILER MANAGEMENT SYSTEM (BMS) FURNISHED BY THE BOILER MANUFACTURER; INSTALLED BY THE MECHANICAL CONTRACTOR; CONTROL AND INTERLOCK WIRING BY THE ATC CONTRACTOR; POWER WIRING (PWR) BY THE ELECTRICAL CONTRACTOR.
7. COMPONENTS FURNISHED WITH THE BOILER MANAGEMENT SYSTEM FOR INSTALLATION AND WIRING BY ATC CONTRACTOR.
8. BOILER MANAGEMENT SYSTEM (BMS) SHALL BE FURNISHED WITH A BACNET, LON, OR MODBUS COMMUNICATION INTERFACE FOR INTEGRATION INTO THE EMS. COMMUNICATION WIRING BY THE ATC CONTRACTOR.
9. ELECTRONIC WATER FLOW SENSOR TO BE FURNISHED BY THE ATC CONTRACTOR, INSTALLED IN PIPING BY THE MECHANICAL CONTRACTOR, AND WIRED BY THE ATC CONTRACTOR.

1 HEATING WATER PIPING CONTROL DIAGRAM

SCALE: NTS



HEATING WATER SYSTEM SEQUENCE OF OPERATION:

MODE OF OPERATION:
THE HEATING WATER SYSTEM MODES OF OPERATION SHALL BE EITHER OCCUPIED, UNOCCUPIED, OVERRIDE COMMAND FROM THE EMS, OR AN OCCUPANCY OVERRIDE SIGNAL FROM ANY SPACE TEMPERATURE SENSOR.

OCCUPIED MODE:
THE LEAD HEATING WATER PUMP SHALL OPERATE CONTINUOUSLY IN THE OCCUPIED MODE. THE HEATING WATER PUMP VFD MODULATES THE HEATING WATER PUMP SPEED TO MAINTAIN THE PUMP HEATING WATER DIFFERENTIAL PRESSURE AT 10 PSID (ADJ., AND INITIAL SETPOINT SET BY TAB CONTRACTOR).

IN THE EVENT THE SYSTEM DIFFERENTIAL PRESSURE SETPOINT CANNOT BE MAINTAINED BY THE LEAD HEATING WATER PUMP FOR 15 MINUTES, THE STANDBY HEATING WATER PUMP SHALL START AND OPERATE IN UNISON WITH THE LEAD HEATING WATER PUMP TO MAINTAIN HEATING WATER PUMP DIFFERENTIAL PRESSURE.

IF PUMP DIFFERENTIAL PRESSURE SETPOINT IS BEING MAINTAINED AND THE LEAD AND STANDBY PUMP SPEED IS LESS THAN 40% FOR A PERIOD OF 30 MINUTES, THE STANDBY HEATING WATER PUMP SHALL STOP.

IN THE EVENT THE LEAD HEATING WATER PUMP FAILS, THE LEAD HEATING WATER PUMP SHALL BE LOCKED OUT, AN ALARM GENERATED AT THE EMS AND THE ROTATION SEQUENCE SHALL BE INDEXED FOR THE STANDBY HEATING WATER PUMP TO BE ENABLED AS THE LEAD HEATING WATER PUMP. WHEN THE FAILURE IS RESET THE SEQUENCING PROGRAM SHALL BE NOTIFIED THAT THE STANDBY HEATING WATER PUMP IS AVAILABLE.

THE LEAD AND STANDBY HEATING WATER PUMPS SHALL BE AUTOMATICALLY ALTERNATED ON A REGULAR BASIS TO EQUALIZE RUNTIMES. OWNER SHALL BE ABLE TO SELECT ROTATION FREQUENCY FROM THE EMS BY SELECTING DAILY, WEEKLY, MONTHLY, OR CUSTOM ROTATION.

THE BOILERS ARE PROVIDED WITH FACTORY MOUNTED CONTROLS AND BOILER MANAGEMENT SYSTEM (BMS) FOR COMPLETE OPERATION & CONTROL OF ALL BOILERS. THE BMS SHALL SEQUENCE THE BOILERS TO MAINTAIN THE HOT WATER TEMPERATURE SETPOINT. BMS SHALL RESET THE HEATING WATER TEMPERATURE SETPOINT BASED UPON OUTSIDE AIR TEMPERATURE. REFER TO GRAPH ABOVE. THE BMS SHALL BE INTERFACED WITH EMS SYSTEM VIA INTEGRATOR PROVIDED BY BOILER MANUFACTURER. REFER TO THE BOILER SPECIFICATIONS FOR SEQUENCE OF OPERATION.

UNOCCUPIED MODE:
THE HEATING WATER PUMP SHALL BE OFF, THE BOILERS SHALL BE OFF, AND THE BOILER TWO-POSITION CONTROL VALVES SHALL BE FULLY CLOSED..

IN THE EVENT ANY BUILDING AIR SYSTEM IS ENABLED FOR OPERATION REQUIRING HEATING WATER, THE BUILDING HEATING WATER SYSTEM SHALL OPERATE IN THE OCCUPIED MODE. WHEN ALL BUILDING AIR SYSTEMS ARE UNOCCUPIED OR THERE IS NO REQUIREMENT FOR HEATING WATER, THE BUILDING HEATING WATER SYSTEM SHALL RETURN TO THE UNOCCUPIED MODE.

OPTIMIZED DISTRIBUTION PUMP DIFFERENTIAL PRESSURE CONTROL (TRIM & RESPOND):
THE BAS SHALL IMPLEMENT TRIM-AND-RESPOND LOGIC PER ASHRAE GUIDELINE 36 TO OPTIMIZE THE HEATING WATER DISTRIBUTION DIFFERENTIAL-PRESSURE SETPOINT.
AT STARTUP, SET THE HEATING WATER SYSTEM PRESSURE SETPOINT TO THE SYSTEM DESIGN VALUE (AS SET BY TAB CONTRACTOR). IN NORMAL OPERATION, THE PUMP DIFFERENTIAL-PRESSURE SETPOINT SHALL BE CONSTRAINED BETWEEN A MINIMUM EQUAL TO 5 PSID (ADJ) AND A MAXIMUM EQUAL TO 25 PSID (ADJ).
EVERY 10 MINUTES (ADJ), THE CONTROL SYSTEM SHALL EVALUATE COOLING REQUESTS AND ADJUST SETPOINT AS FOLLOWS:
CONSIDER ONLY AHUS / FCU LOADS THAT HAVE BEEN OPERATING IN COOLING MODE FOR AT LEAST 15 MINUTES (ADJ).
FOR EACH AHU, VAV, OR FCU LOAD:
IF THE HEATING WATER VALVE >= 95% OPEN: SEND 1 REQUEST. CONTINUE SENDING 1 REQUEST EVERY 10-MIN INTERVAL UNTIL VALVE < 70% (ADJ).
IF THE HEATING WATER VALVE < 95%: SEND 0 REQUESTS.
THE BAS SHALL IGNORE THE FIRST N REQUESTS AFTER STARTUP WHERE N = IGNORES (ADJ). DEFAULT IGNORES SHOULD BE SELECTED TO AVOID OSCILLATION; NOTE: SET IGNORES ≥ 40% OF THE NUMBER OF AHUS SERVED AT STARTUP (ADJ).
IF (REQUESTS > IGNORES): INCREASE PUMP DIFFERENTIAL SETPOINT BY ((REQUESTS − IGNORES) × 3 PSID) (ADJ), BUT INCREASE NO MORE THAN +10 PSID (ADJ) IN A SINGLE ADJUSTMENT.
IF (REQUESTS ≤ IGNORES): REDUCE SETPOINT BY 2 PSID (ADJ).
ALL CHANGES SHALL REMAIN WITHIN THE DEFINED MINIMUM AND MAXIMUM BOUNDS.
HEATING WATER VALVES MAY BE MANUALLY REMOVED FROM THE LOGIC IF NEEDED.

SAFETIES IN ALL MODES OF OPERATION:
THE MAIN GAS SHUT-OFF VALVE (REFER TO M6.04) SHALL CLOSE BY EITHER THE EMERGENCY GAS SHUT-OFF BUTTON OR BOILER SAFETIES.

REFER TO BOILER AND BOILER MANAGEMENT SYSTEM (BMS) SPECIFICATIONS FOR ADDITIONAL SAFETIES.

SETPOINTS AND PARAMETERS:
ALL CONTROL BANDS, SETPOINTS, SETPOINT LIMITS, SETPOINT INCREMENT VALUES, SETPOINT DECREMENT VALUES, TIME DELAYS, EQUIPMENT ROTATION SEQUENCES, ALARM LIMITS, AND OTHER PARAMETERS SHALL BE ADJUSTABLE FROM THE EMS.

ALL PARAMETERS SHALL BE COMMISSIONED BY THE ATC CONTRACTOR TO PROVIDE STABLE CONTROL OF ALL SYSTEMS.

ENERGY MONITORING:
THE EMS SHALL MONITOR THE NATURAL GAS FOR INSTANTANEOUS FLOW RATE AND USAGE. THE EMS TO PROVIDE INSTANTANEOUS USE. HOURLY, DAILY, MONTHLY, YEARLY USAGE AND PROVIDE COMPARATIVE DATA FROM PREVIOUS HOUR, DAY, MONTH, AND YEARS ON A DASH BOARD GRAPHIC IN THE EMS.

ALARM MONITORING:
AN ALARM WILL BE GENERATED AT THE EMS IF ANY OF THE FOLLOWING OCCUR:
1. BOILER(S) LEAVING WATER LOW TEMPERATURE ALARM
2. HEATING WATER SUPPLY LOW TEMPERATURE ALARM
3. HEATING WATER RETURN LOW TEMPERATURE - ADVISORY
4. HEATING WATER PUMP VFD FAILURE
5. HEATING WATER PUMP FLOW FAILURE
6. HEATING WATER DIFFERENTIAL PRESSURE HIGH ALARM
7. HEATING WATER DIFFERENTIAL PRESSURE LOW ALARM
8. BOILER(S) STACK TEMPERATURE LOW TEMPERATURE ALARM < 100°F

Project Name
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U OF A ALPHA PHI HOUSE

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CONSTRUCTION DOCUMENTS

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Job No.
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Date
12.18.2025
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MECHANICAL CONTROLS

Sheet No.

M6.06

FOR QUESTIONS, CALL THE
Arkansas Mechanical
REGION 146
PHONE: (501) 500 - 5450
EMAIL: reg146@captiveaire.com

PATENT NUMBERS
EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#8311146

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM WIDTH	LENG	RISER(S) HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1	Hood-1	5424 ND-2	CAPTIVEAIRE	7' 11"	600 DEG	I	HEAVY	200	1585			4"	14"	1585	1483	-0.800"	430 SS WHERE EXPOSED	ALONE	FRONT
2	Hood-2	5424 ND-2	CAPTIVEAIRE	7' 11"	600 DEG	I	HEAVY	200	1585			4"	14"	1585	1483	-0.800"	430 SS WHERE EXPOSED	ALONE	BACK

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1	Hood-1	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-310110MA	1 LIGHT 1 FAN	YES	756 LBS
2	Hood-2	CAPTRATE SOLO FILTER	5	16"	16"	85% SEE FILTER SPEC	2	RECESSED ROUND	NO							YES	438 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	Hood-1	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 108.00" LONG 430 SS VERTICAL.
		RIGHT SIDESPLASH 80.00" HIGH X 54.00" LONG 430 SS VERTICAL.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		BALANCE DAMPERS.
		INSULATION FOR BACK OF HOOD.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		RIGHT WALL AS END PANEL.
2	Hood-2	FIELD WRAPPER 18.00" HIGH FRONT, LEFT, RIGHT.
		BACKSPLASH 80.00" HIGH X 96.00" LONG 430 SS VERTICAL.
		LEFT SIDESPLASH 80.00" HIGH X 54.00" LONG 430 SS VERTICAL.
		LEFT END STANDOFF (FINISHED) 1" WIDE 54" LONG INSULATED.
		BALANCE DAMPERS.
		INSULATION FOR BACK OF HOOD.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT WALL AS END PANEL.

GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

HIGH VELOCITY DIFFUSERS OR HVAC RETURNS SHOULD NOT BE PLACED WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

__' - __"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE ______
YOUR TITLE ______ DATE ______

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

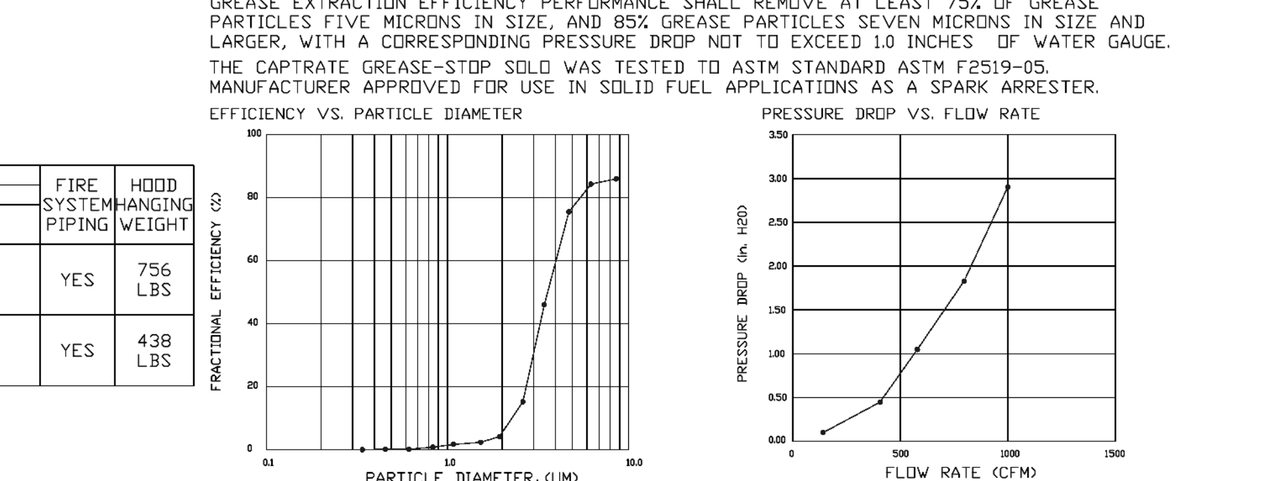
THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

REVISIONS

	DESCRIPTION	DATE:
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CAPTIVEAIRE
Arkansas Mechanical
140 Southwinds Rd. Suite 133, Farmington, AR, 72730 PHONE: (501) 500 - 5450 FAX: 5017106670 EMAIL: reg146@captiveaire.com
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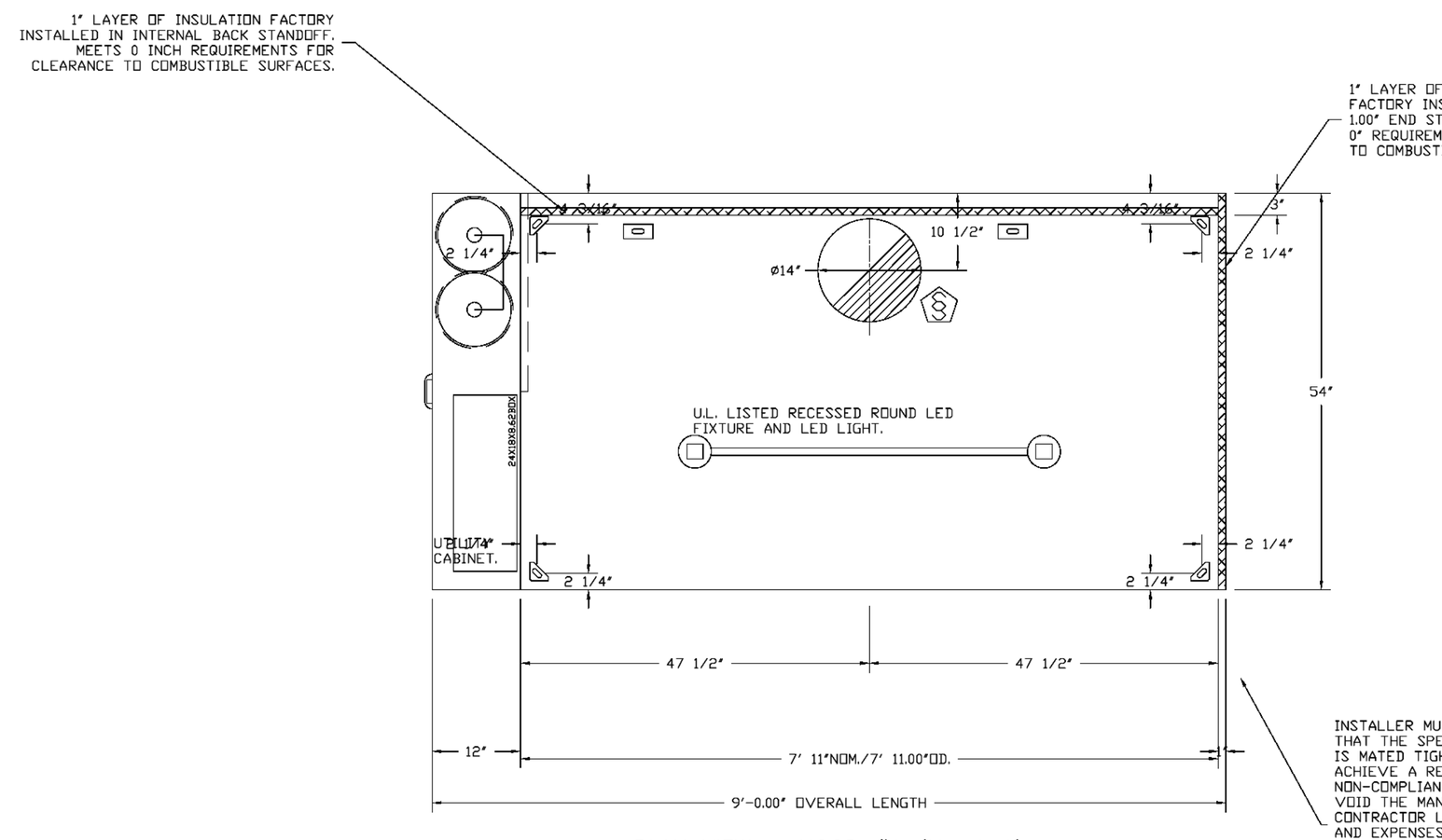
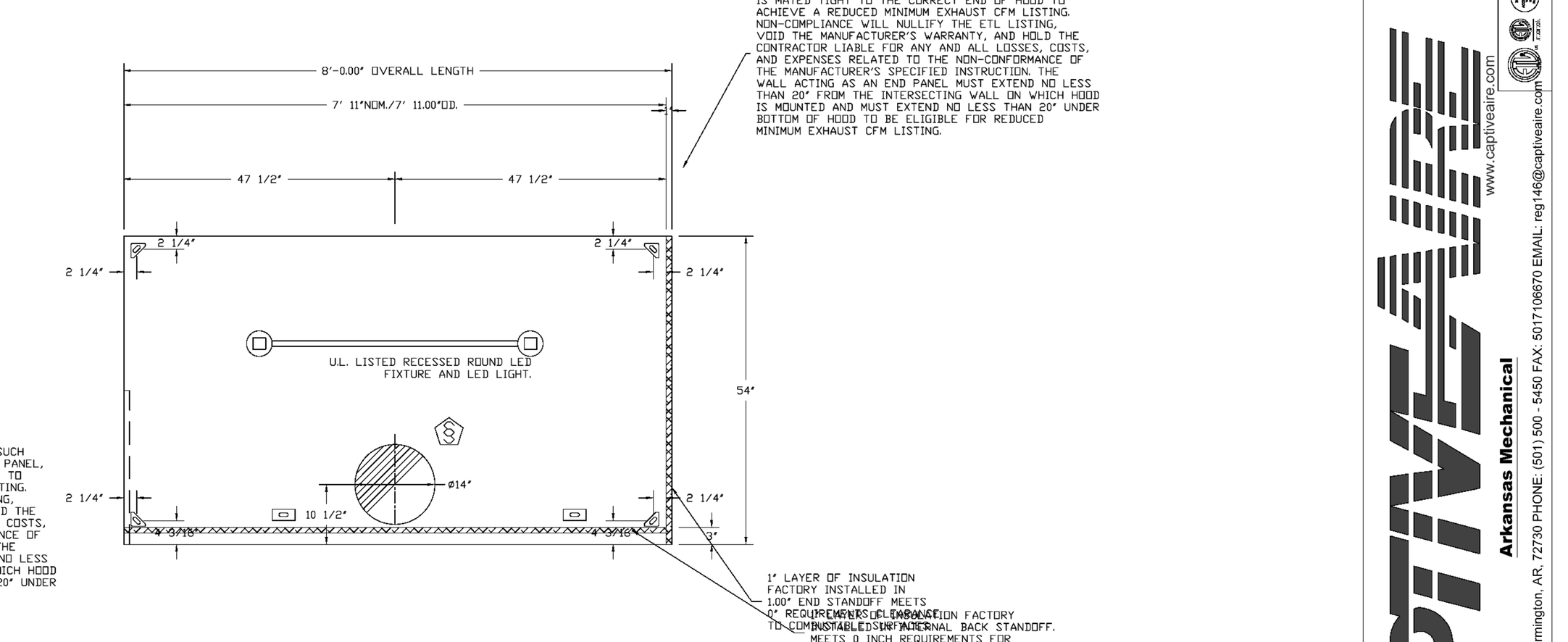
Alpha Phi Kitchen Hood

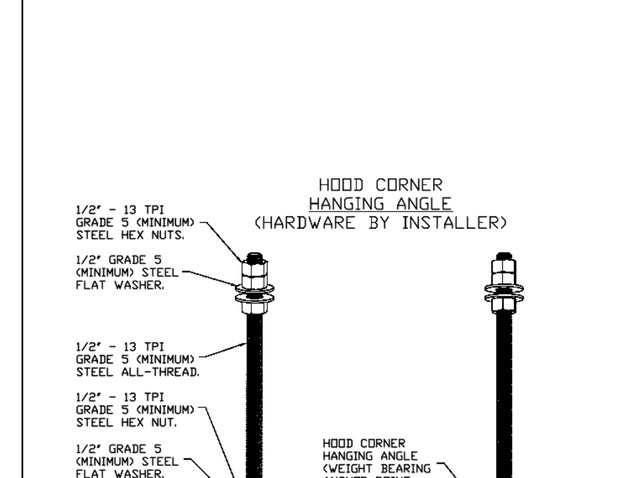
DATE: 11/5/2025
DWG.#: 8311146
DRAWN BY: andrew.lewinski
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1



PLAN VIEW - HOOD #1 (Hood-1)
7' 11.00" LONG 5424ND-2

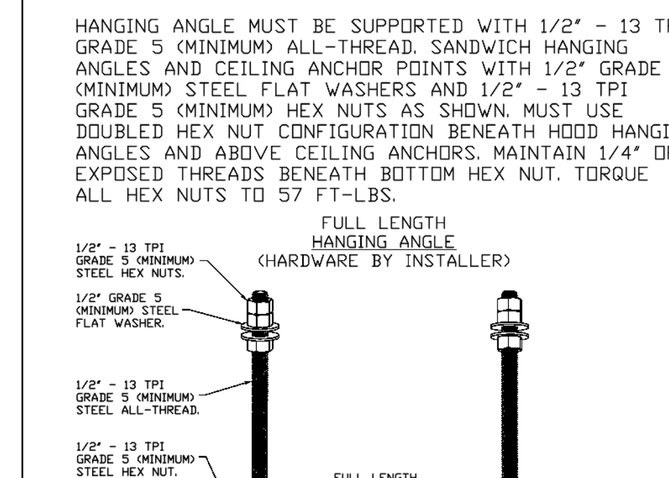


PLAN VIEW - HOOD #2 (Hood-2)
7' 11.00" LONG 5424ND-2



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



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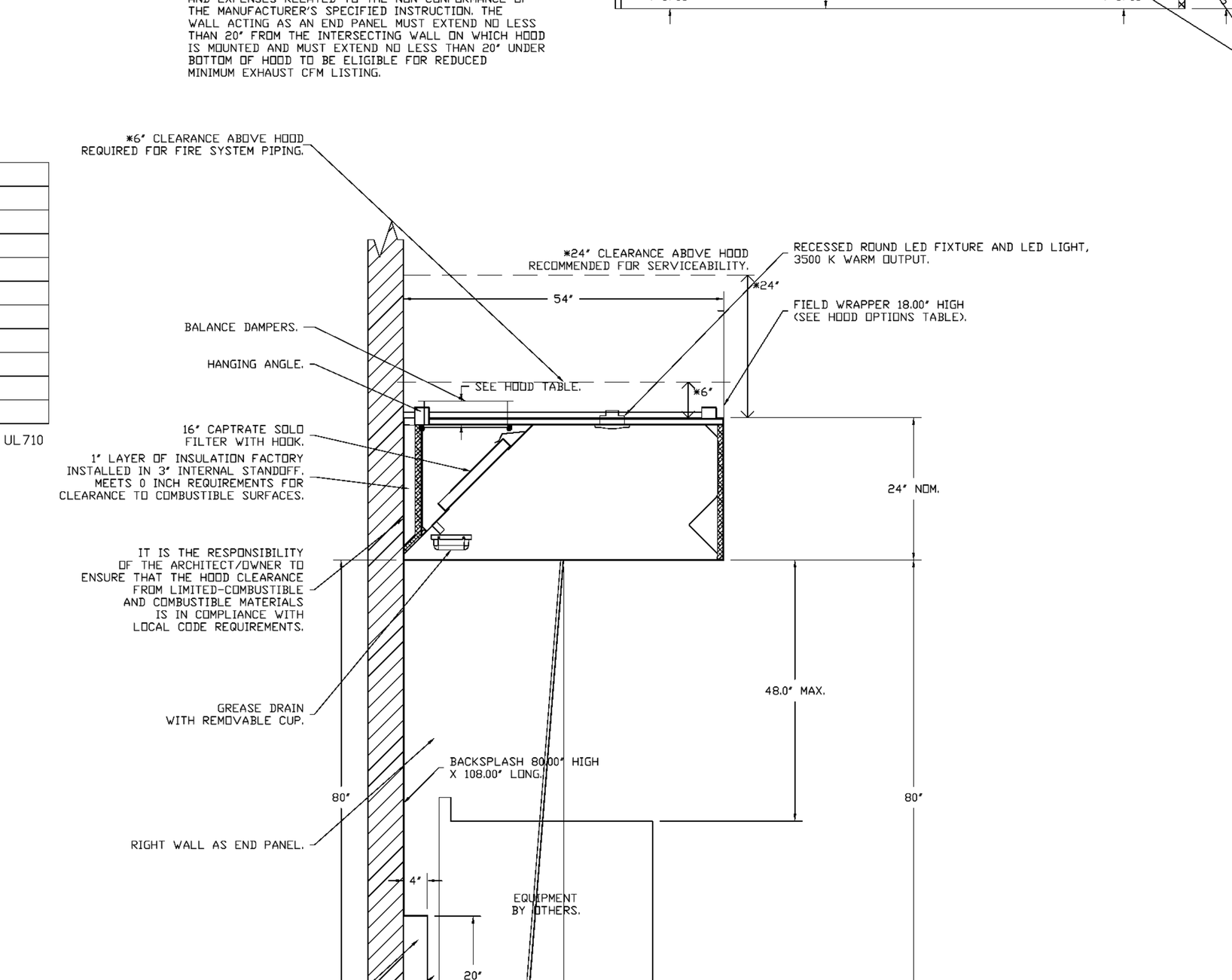
CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	0"
2	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	18"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW - MODEL 5424ND-2
HOOD - #1 (Hood-1)

REVISIONS

	DESCRIPTION	DATE:
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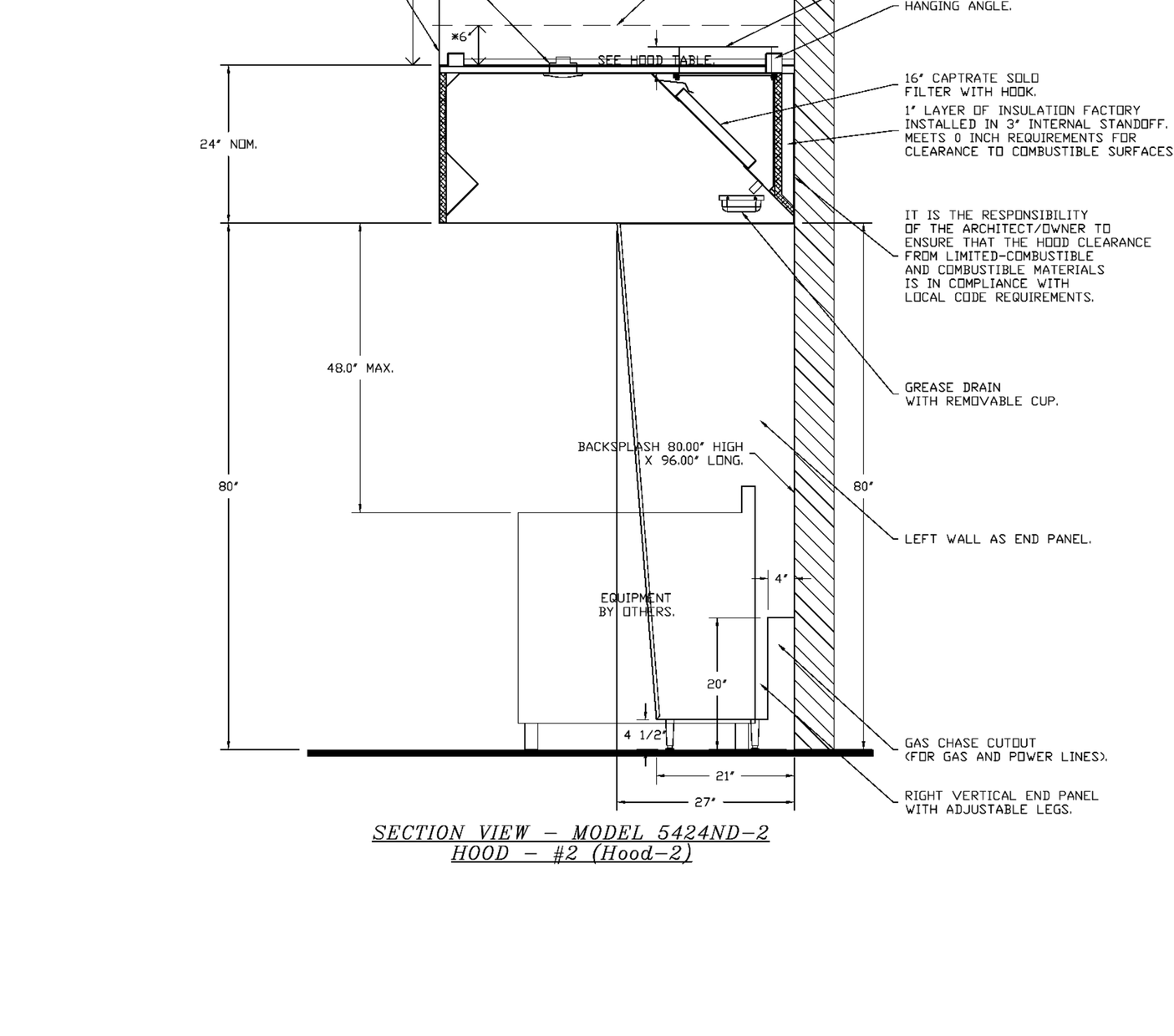
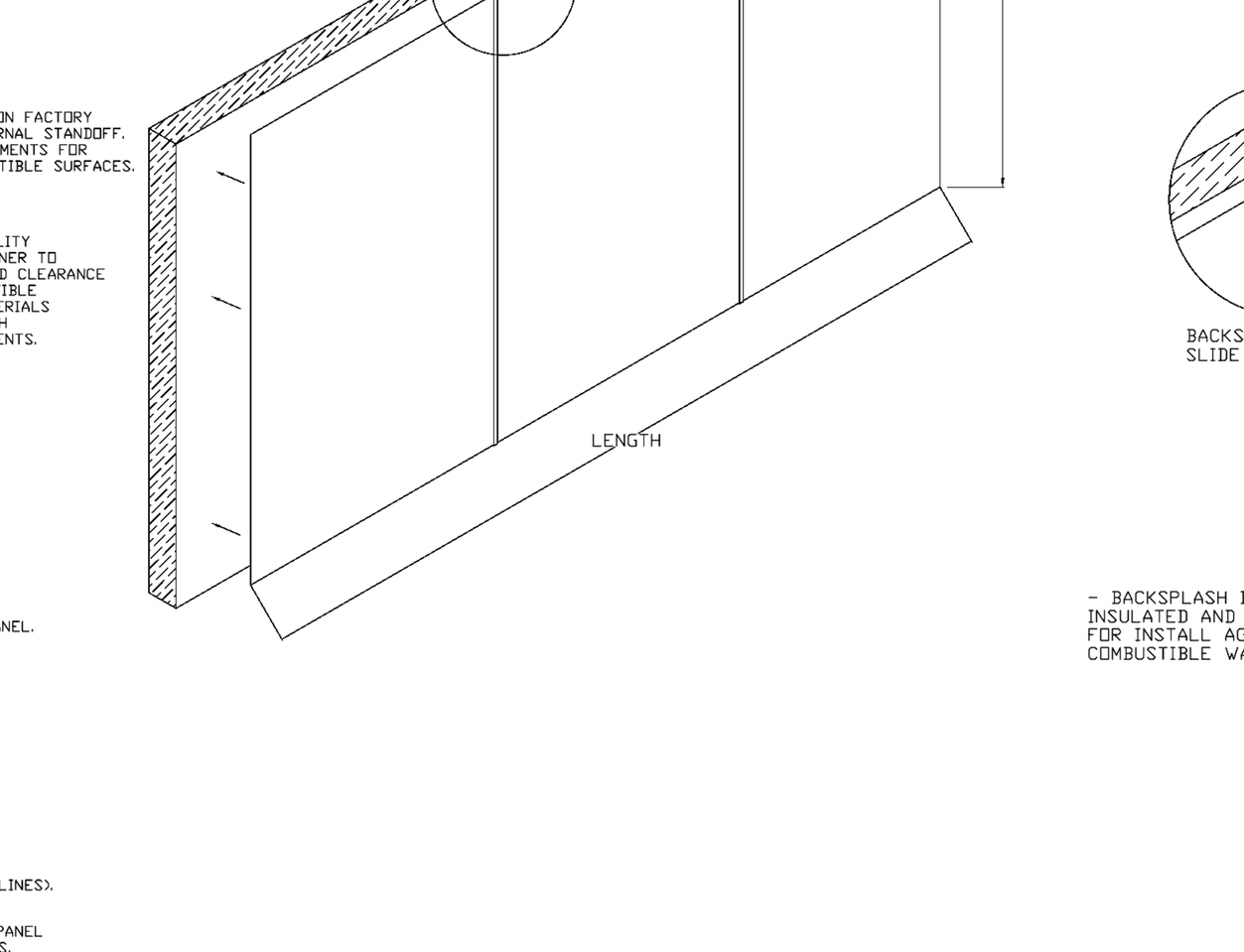
Alpha Phi Kitchen Hood

DATE: 11/5/2025
DWG.#: 8311146
DRAWN BY: andrew.lewinski
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 2



SECTION VIEW - MODEL 5424ND-2
HOOD - #2 (Hood-2)

BACKSPLASH



- BACKSPLASH IS NOT INSULATED AND IS UNSUITABLE FOR INSTALL AGAINST COMBUSTIBLE WALLS

REVISIONS

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DATE: 11/5/2025
DWG.#: 8311146
DRAWN BY: andrew.lewinski
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

FIRE SYSTEM INFORMATION - JOB#8311146

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	LOCATION ON HOOD
1	FS-1	TANK FS	4.0/4.0	40	38	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1	FS-1	SC ELECTRICAL	2.000	CAPTIVEAIRE SYSTEMS

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER - PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1	FS-1	0 - 0 - TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 - 0 - 12-F28021-32144-OT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	2	0
		0 - 0 - 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 - 0 - 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 - 0 - 79525 1/2" 90 PRO-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 - 0 - 79580 1/2" X 1/2" PRO-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 - 0 - 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) - SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5" BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300001-001 TANK - PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 - 0 - 87-300030-001 PRIMARY ACTUATOR KIT (PAK) - ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 - 0 - 87-300033-001 DIN CONNECTOR, CANFIELD PART #5J560-201-EU0A, TANK FIRE SUPPRESSION, SUBMINATURE SOLENOID CONNECTION (CED VENDOR 30377).	1	0
		0 - 0 - 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 - 0 - 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 - 0 - A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 - 0 - A31484 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 - 0 - DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - SLPCON-03FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 2' GAP. KIT CONTAINS 5 FEET OF BLACK MG WIRE, 5 FEET OF TAN MG WIRE, 3 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	1	0
		0 - 0 - SLPCON-15FT SUPERVISED LOOP CONNECTION KIT. CONTAINS THE PARTS NEEDED TO CONNECT THE SUPERVISED LOOP BETWEEN END TO END HOODS WITH LESS THAN A 14' GAP OR BACK TO BACK HOODS. KIT CONTAINS 17 FEET OF BLACK MG WIRE, 17 FEET OF TAN MG WIRE, 15 FEET OF FLEXIBLE CONDUIT, AND TWO 7/8" CONNECTORS.	2	0
		0 - 0 - TANK STRAP TANK STRAP - USED FOR TANK FIRE SUPPRESSION.	6	0
		0 - 0 - TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 - 0 - WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		34 - 34 - A0034331 RED COLOR - 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT.	1	0

REVISIONS

	DESCRIPTION	DATE:
△		
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Alpha Phi Kitchen Hood

DATE: 11/5/2025
DWG.#: 8311146
DRAWN BY: andrew.lewinski
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 4

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No. 3588
ARKANSAS

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 14988
JASON PATRICK MOWREY

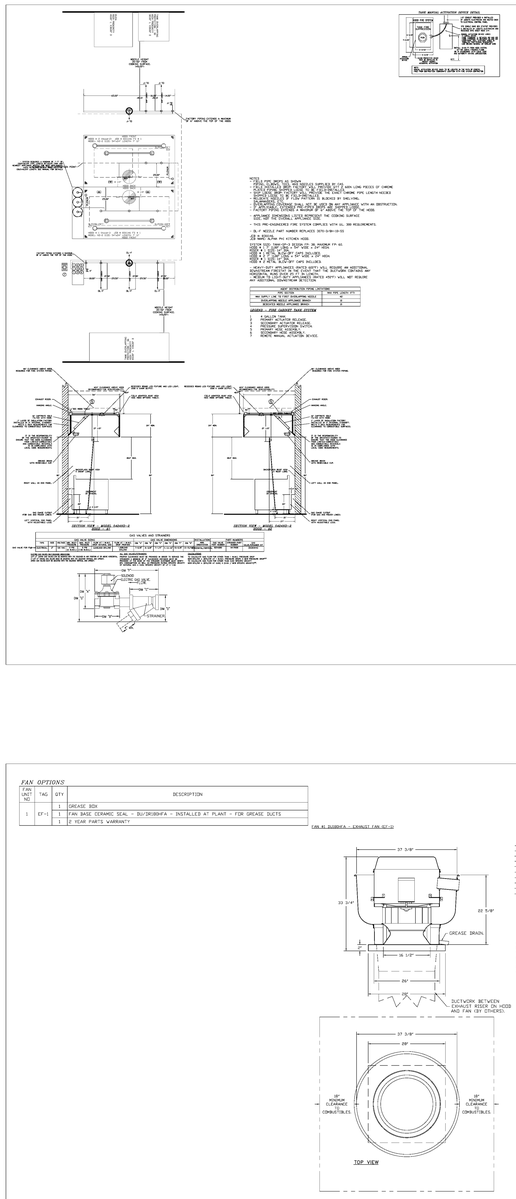
CONSTRUCTION DOCUMENTS

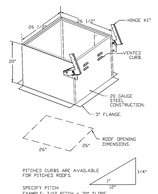
No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

KITCHEN HOOD DRAWINGS

Sheet No.
M7.00





EXHAUST FAN INFORMATION — 208A6311146

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DUBBHFA	CAPTIVEAIRE	3170	1.750	1397	ODP_PREMIUM	3.000	1.9500	3	208	9.5	732 FPM	385	21.7

FAN ACCESSORIES:

FAN UNIT NO	TAG	EXHAUST				SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT	
1	EF-1	YES							

CURB ASSEMBLIES

NO	QN FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	43 LBS	CURB	24.500"W X 26.500"L X 20.000"H 0.250-12.000 PITCH ALONG LENGTH, RIGHT VENTED HINGED

FAN OPTIONS:

FAN UNIT NO	TAG	QTY	DESCRIPTION
		1	GREASE BOX
1	EF-1	1	FAN BASE CERAMIC SEAL - SU/SR/BBHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
		1	2 YEAR PARTS WARRANTY

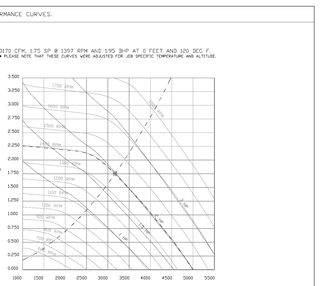
FAN #1 DUBBHFA - EXHAUST FAN EF-01

FEATURES:
- DIRECT DRIVE CONSTRUCTION AND BELTS/PULLEYS.
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND ULTRA AND ULC-S645
- SPEED CONTROL AND CONTROLS.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL OPERATING CYCLE:
EXHAUST FANS MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 200°F (93°C) OR LESS. ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AT THIS TEMPERATURE DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLAME-UP CYCLE:
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 1000°F (538°C) OR LESS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING AIRBORNE OR CAUSING DEVICE THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS:
- GREASE BOX
- FAN BASE CERAMIC SEAL - SU/SR/BBHFA - INSTALLED AT PLANT - FOR GREASE DUCTS
- 2 YEAR PARTS WARRANTY.



GREASE DUCT & CHIMNEY SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12". HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 2R TYPE HT, 3R, OR 32" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE:

APPROVED AS NOTED ☐
APPROVED WITH NO EXCEPTION TAKEN ☐
REVISE AND RESUBMIT ☐
SIGNATURE _____
YOUR TITLE _____ DATE _____

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Alpha Phi Kitchen Hood

DATE: 11/3/2025
DWG.#: 8201146
DRAWN BY: pdpfrederickpsc
SCALE: 3/8" = 1'-0"
MASTER DRAWING
SHEET NO. 7

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Alpha Phi Kitchen Hood

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SCALE: 3/4" = 1'-0"
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SHEET NO. 8

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK NOWLIN

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title
KITCHEN HOOD DRAWINGS
Sheet No.
M7.01

Project Name
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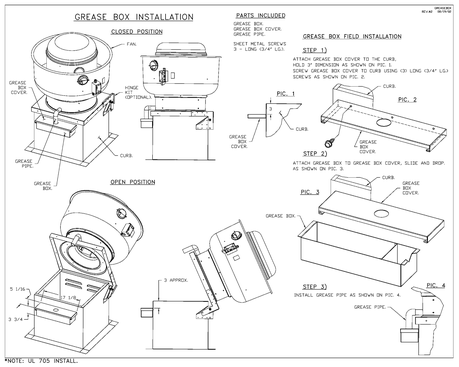

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DATE: 11/5/2025
DWG.#: B201146
DRAWN BY: andrew.krempski
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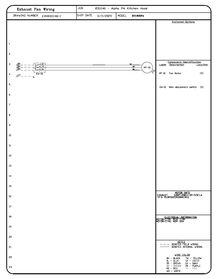
SHEET NO. 9



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DWG.#: B201146
DRAWN BY: andrew.krempski
SCALE: 3/4" = 1'-0"
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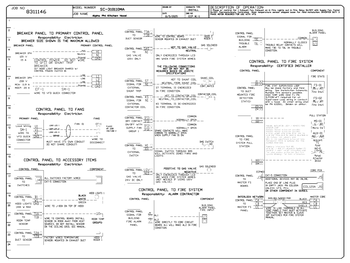
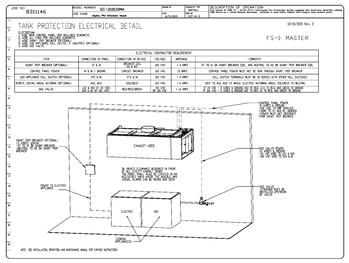
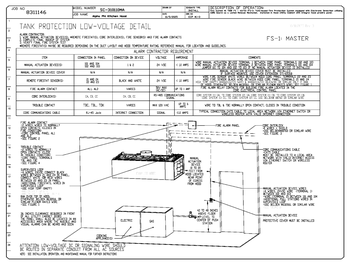
SHEET NO. 10

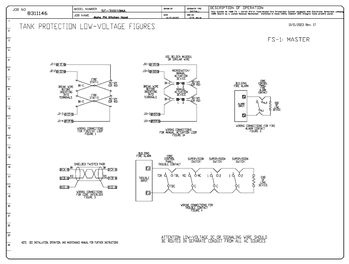
ELECTRICAL PACKAGE - ISB#B311146

NO.	TAG	PACKAGE #	LOCATION	SWITCHES: LOCATION	SWITCHES: QUANTITY	OPTION	FANS CONTROLLED: FAN TAG	FANS CONTROLLED: TYPE	FANS CONTROLLED: #	FANS CONTROLLED: HP	FANS CONTROLLED: VOLTS/PH
1		SC-3505299A	UTILITY CABINET LOT-1	UTILITY CABINET HOOD # 1	1 LIGHT 1 FAN	SMART CONTROLS, THERMOSTATIC CONTROL w/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	1	3.000	208 - 3/5









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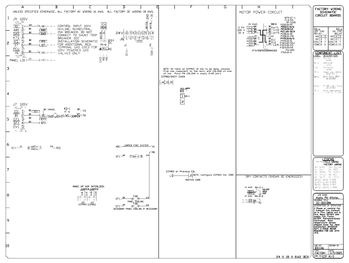

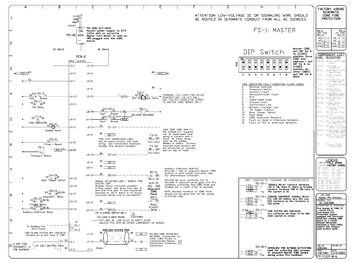

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK PRIGMORE

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No.
UAFAPH-21.01
Date
12.18.2025
Title

KITCHEN HOOD DRAWINGS

Sheet No.
M7.02

Project Name
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ELECTRICAL SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

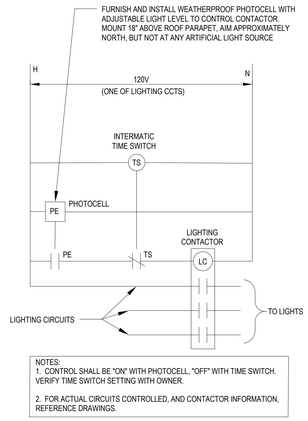
SYMBOL	DESCRIPTION
○	RECESSED CAN LIGHT FIXTURE
▭	FLUORESCENT OR LED FIXTURE
▽ ▽ ▽	TRACK LIGHTING
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
$	SWITCH, SINGLE POLE
$3	SWITCH, 3-WAY
$D	SWITCH, DIMMER, TO BE COMPATIBLE WITH LIGHT TYPE AND LOAD
$T	SINGLE POLE TIMER SWITCH (PARAGON MODEL #ET1100F)
$3T	3-WAY TIMER SWITCH (PARAGON MODEL #ET1100F/3-WAY)
$M	SWITCH, MANUAL MOTOR
$OS	SWITCH, OCCUPANCY SENSOR, WALL MOUNT
$OSLD	SWITCH, OCCUPANCY SENSOR AND DIMMER COMBO, WALL MOUNT
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, ISOLATED GROUND
	RECEPTACLE, DUPLEX, GFI
OS	OCCUPANCY SENSOR, CEILING MOUNT
PP	POWER PACK FOR LIGHTING CONTROLS
	RECEPTACLE, DUPLEX, CEILING MOUNTED (FIELD VERIFY EXACT LOCATION) INSTALL FLUSH IN CEILING IN AREAS WITH FINISHED CEILINGS
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, SPECIAL FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, SPECIAL
	RECEPTACLE, SIMPLEX
▽	DATA OUTLET, CAT 6 OR PER SPECS
▼	TELEPHONE OUTLET
	TELEVISION OUTLET, CONFIRM CABLE TYPE PRIOR TO INSTALLATION
	DATA OUTLET & PHONE OUTLET, CAT 6 OR PER SPECS
J	JUNCTION BOX
J	JUNCTION BOX (FLUSH FLOOR MOUNTED)
JB J PB	GENERIC JUNCTION BOX OR PULL BOX AS APPLICABLE. SEE DRAWINGS FOR MORE SPECIFIC APPLICATION INFORMATION
	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
LA-1	HOME-RUN (WITH CIRCUIT NUMBER(S) WHERE APPLICABLE) CIRCUIT NUMBERS ARE ALSO SHOWN WITHOUT HOMERUN
	CIRCUIT, CONCEALED IN SLAB FLOOR
	CABLING/RACEWAY - CEILING OR WALL - SEE SPECS. FOR APPL CONDUIT/RACEWAY REQ'TS. (FULLY CONCEALED IN FINISHED AREAS, CONCEALED TO OVERHEAD STRUCTURE IN UNFIN. AREAS)
	CONDUIT SLEEVE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	MOTOR
	TELEPOWER POLE (TUBE-STEEL CHASE FURNISHED BY OWNER, INSTALLED BY E.C.) SEE POWER PLANS FOR FURTHER INFORMATION
	PUSH BUTTON
	BUZZER
	INDICATES GROUNDING BY E.C. PER N.E.C. ARTICLE 250 MINIMUM
TV/DATA	TV BOX: PROVIDE POWER, CAT 6 RECEPTACLES IN RECESSED 3-GANG BOX.

ABBREVIATIONS

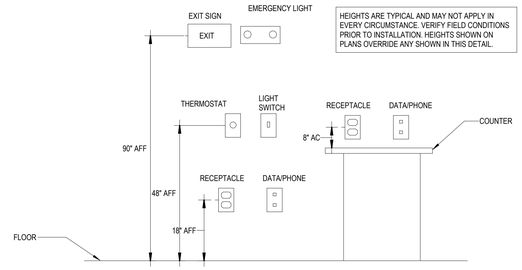
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY LIGHTING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GR	GROUND
IG	ISOLATED GROUND
HD	HAND DRYER
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUG ONLY
NL	NIGHT LIGHT
PC	PLUMBING CONTRACTOR
PNLBD	PANELBOARD
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
REF	REFERENCE
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
SC	SECURITY CAMERA
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE
XFMR	TRANSFORMER

GENERAL POWER/LIGHTING NOTES

A	PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS: A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING. B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAILS. C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
B	PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN ALL CONDUIT AND RACEWAYS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
C	WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY: A. SWITCHES +48" B. RECEPTACLES +18" C. VOICE/DATA +18" OR AS NOTED ON PLANS.
D	WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
E	CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATIONS SCHEDULES.
F	BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR FINAL CONNECTION (15-FT MAXIMUM).
G	WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
H	PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.
I	ALL EMERGENCY AND EXIT SIGN CIRCUITRY SHALL BE UNSWITCHED.
J	PROVIDE 4'X4', 3/4" FIRE RATED PLYWOOD BACKBOARD WHERE SHOWN ON PLANS OR AS REQUIRED FOR DATA/PHONE, CATV, OR ALARMS. COORDINATE FINAL LOCATION WITH THE RESPECTIVE CONTRACTOR.
K	PROVIDE SURGE PROTECTIVE DEVICE FOR ANY OWNER PROVIDED EQUIPMENT, SUCH AS ACCESS CONTROL SYSTEMS, COMMUNICATIONS SYSTEMS, DATA SYSTEMS, AND SECURITY SYSTEMS.
L	GROUP SWITCHES ADJACENT TO EACH OTHER IN MULTI-GANG BOX. MOUNT SWITCHES AT SAME HEIGHT AS EACH OTHER AND OTHER DEVICES NEARBY FOR A CLEAN LOOK.
M	DIMMER SWITCHES SHALL BE COMPATIBLE WITH LOAD IT'S SERVING. 0-10V LIGHT FIXTURES SHALL BE DIMMED WITH 0-10V DIMMER WITH CONTROL WIRING.
N	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FOR ANY MECHANICAL CONTROL CABLING BETWEEN UNITS, CONTROLLERS, THERMOSTATS, ETC. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR.
O	LOW VOLTAGE CABLING IN WALLS OR WHEN EXPOSED SHALL ALWAYS BE ROUTED IN CONDUIT. HORIZONTAL CABLING THAT IS CONCEALED SHALL BE PER OWNER, AHJ, OR ENGINEER REQUIREMENTS.



2 LIGHTING CONTACTOR
NTS



1 TYPICAL MOUNTING HEIGHTS
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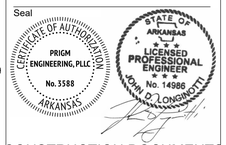

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title ELECTRICAL & LIGHTING NOTES AND SYMBOLS

Sheet No. **E0.00**

Project Name
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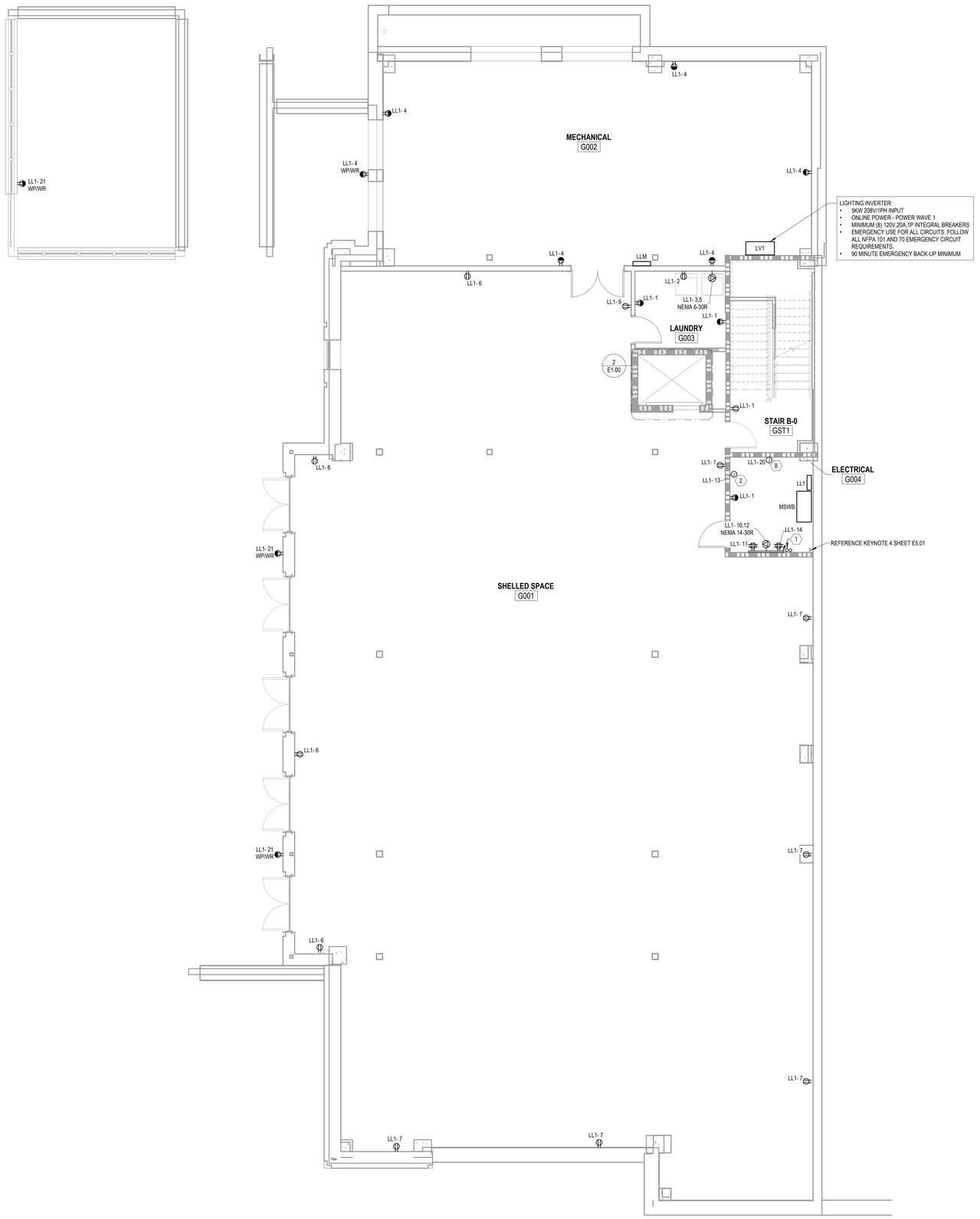
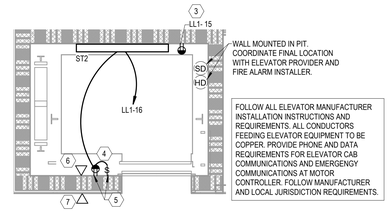


1 POWER PLAN - LOWER LEVEL
3/16" = 1'-0"



2 ELEVATOR PIT POWER PLAN
3/8" = 1'-0"

KEYNOTES:

1 PROVIDE A 4'W X 4'H PLYWOOD BACKBOARD WITH FIRE RETARDANT PLYWOOD FOR PHONE/DATA USE. PROVIDE (2) 4" CONDUITS WITH PULL-WIRE FOR DATA/PHONE UTILITY ROUTED TO UTILITY DEMARC LOCATION. NO HARD 90 DEGREE TURNS ARE PERMITTED. SWEEPS MUST BE USED FOR BENDS UNDERGROUND. COORDINATE WITH UTILITY FOR REQUIREMENTS AND FINAL LOCATION OF BUILDING ENTRY.

2 JUNCTION BOX FOR CONNECTION TO FIRE ALARM CONTROL PANEL. COORDINATE EXACT LOCATION AND CONNECTIONS WITH FIRE ALARM INSTALLER.

3 RECEPTACLE FOR ELEVATOR PIT SUMP PUMP. CONNECT PER MANUFACTURER'S INSTRUCTIONS. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.

4 LIGHTS SHALL NOT BE CONNECTED TO LOAD SIDE OF TERMINALS OF CONVENIENCE RECEPTACLE.

5 LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR AT PIT LEVEL AND AT THE TOP FLOOR LEVEL. FINAL LOCATIONS OF LIGHTS AND RECEPTACLES TO BE COORDINATED WITH MANUFACTURER EQUIPMENT DESIGN AND RECOMMENDATIONS.

6 PROVIDE A DEDICATED OUTSIDE TELEPHONE LINE AND TERMINATE AT THE CONTROLLER DESIGNATED BY THE ELEVATOR MANUFACTURER'S CONSTRUCTION SUPERINTENDENT.

7 PROVIDE FLUSH JUNCTION BOX FOR TWO-WAY COMMUNICATIONS ON EACH ELEVATOR LANDING. PROVIDE COMMUNICATIONS CABLING FOR THIS REQUIREMENT. COORDINATE WITH ELEVATOR MANUFACTURER FOR INSTALLATION.

8 JUNCTION BOX FOR CONNECTION TO SECURITY/ACCESS CONTROL PANEL. COORDINATE EXACT LOCATION AND CONNECTIONS WITH SECURITY INSTALLER.

POWER PLAN NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
2	PROVIDE AFCI-TYPE BREAKER OR RECEPTACLES FOR ALL 120V, 15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ALL LOCATIONS REQUIRED PER NEC 210.12.
3	ALL 120V RECEPTACLES IN BEDROOMS SHALL HAVE (2) USB-C TYPE PORTS INTEGRAL TO RECEPTACLE.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOORBOXES. PROVIDE FLOORBOX WITH QUAD RECEPTACLE.
5	FOR RECEPTACLES AND SWITCHES INSTALLED ABOVE COUNTERS, VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. VERIFY THAT RECEPTACLES AND SWITCHES ARE IN THE BACKSPLASH OR COMPLETELY ABOVE IT. DO NOT INSTALL SO THAT IT IS PARTIALLY IN AND ABOVE THE BACKSPLASH.
6	VERIFY ALL SPECIFICATIONS AND ELECTRICAL REQUIREMENTS FOR APPLIANCES ORDERED BY OWNER. CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
7	LOCATE DEVICES IN COMMON BACK TO BACK WALLS IN SEPARATE STUD CAVITIES WHERE POSSIBLE TO PREVENT SOUND TRANSMISSION THROUGH DEVICES BOXES BETWEEN ROOMS. USE OF AN APPROVED SOUND ELEMINATION DEVICE SHALL BE USED WEHRE BOXES ARE LOCATED IN A COMMON STUD CAVITY.
8	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
9	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.

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POWER PLAN - LOWER LEVEL

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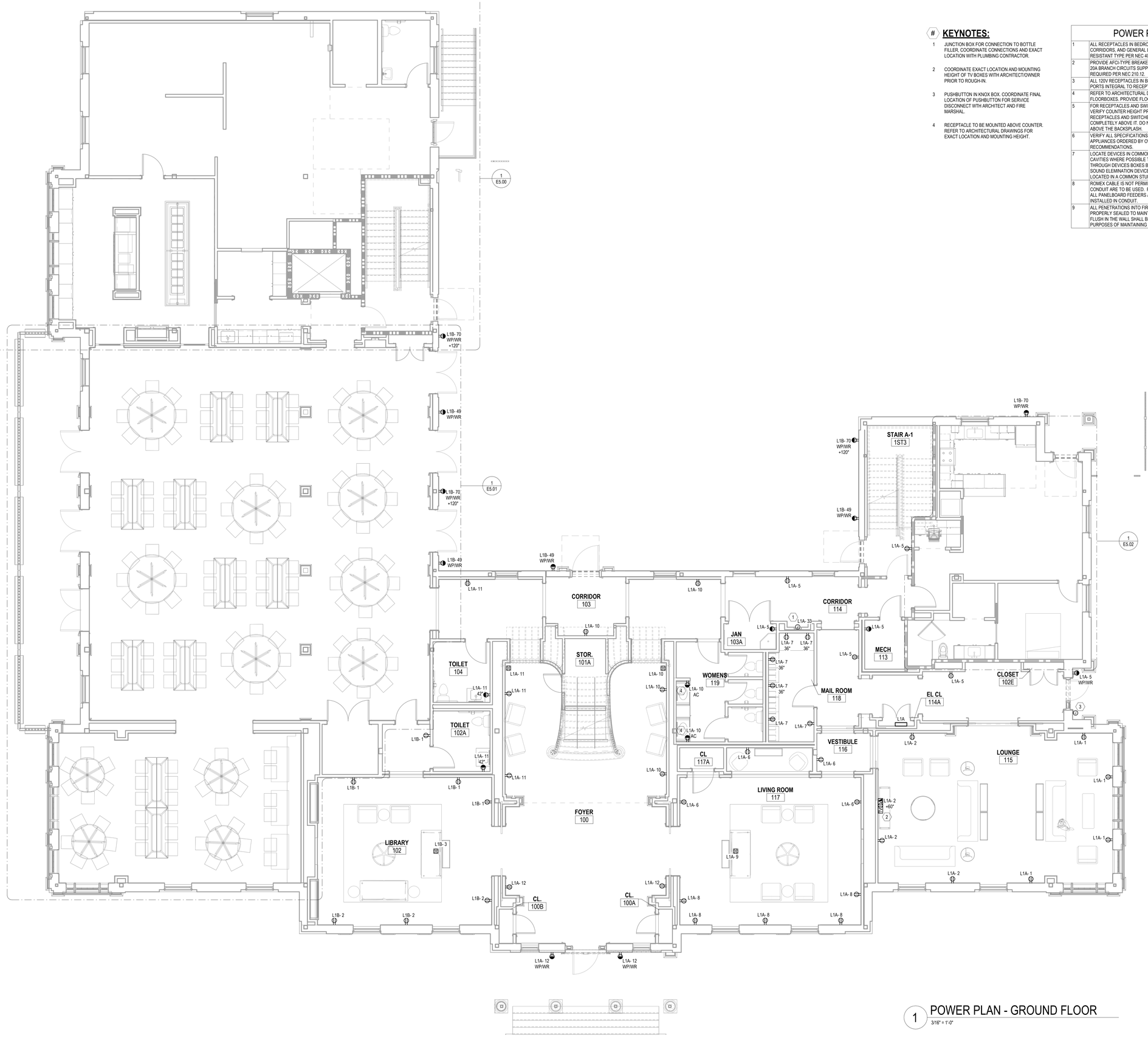

1 POWER PLAN - GROUND FLOOR
3/16" = 1'-0"

KEYNOTES:

1 JUNCTION BOX FOR CONNECTION TO BOTTLE FILLER, COORDINATE CONNECTIONS AND EXACT LOCATION WITH PLUMBING CONTRACTOR.

2 COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF TV BOXES WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.

3 PUSHBUTTON IN KNOX BOX. COORDINATE FINAL LOCATION OF PUSHBUTTON FOR SERVICE DISCONNECT WTH ARCHITECT AND FIRE MARSHAL.

4 RECEPTACLE TO BE MOUNTED ABOVE COUNTER. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.

POWER PLAN NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
2	PROVIDE AFCI-TYPE BREAKER OR RECEPTACLES FOR ALL 120V, 15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ALL LOCATIONS REQUIRED PER NEC 210.12.
3	ALL 120V RECEPTACLES IN BEDROOMS SHALL HAVE (2) USB-C TYPE PORTS INTEGRAL TO RECEPTACLE.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOORBOXES. PROVIDE FLOORBOX WITH QUAD RECEPTACLE.
5	FOR RECEPTACLES AND SWITCHES INSTALLED ABOVE COUNTERS, VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. VERIFY THAT RECEPTACLES AND SWITCHES ARE IN THE BACKSPLASH OR COMPLETELY ABOVE IT. DO NOT INSTALL SO THAT IT IS PARTIALLY IN AND ABOVE THE BACKSPLASH.
6	VERIFY ALL SPECIFICATIONS AND ELECTRICAL REQUIREMENTS FOR APPLIANCES ORDERED BY OWNER. CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
7	LOCATE DEVICES IN COMMON BACK TO BACK WALLS IN SEPARATE STUD CAVITIES WHERE POSSIBLE TO PREVENT SOUND TRANSMISSION THROUGH DEVICES BOXES BETWEEN ROOMS. USE OF AN APPROVED SOUND ELEMINATION DEVICE SHALL BE USED WEHRE BOXES ARE LOCATED IN A COMMON STUD CAVITY.
8	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
9	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.

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POWER PLAN - GROUND FLOOR

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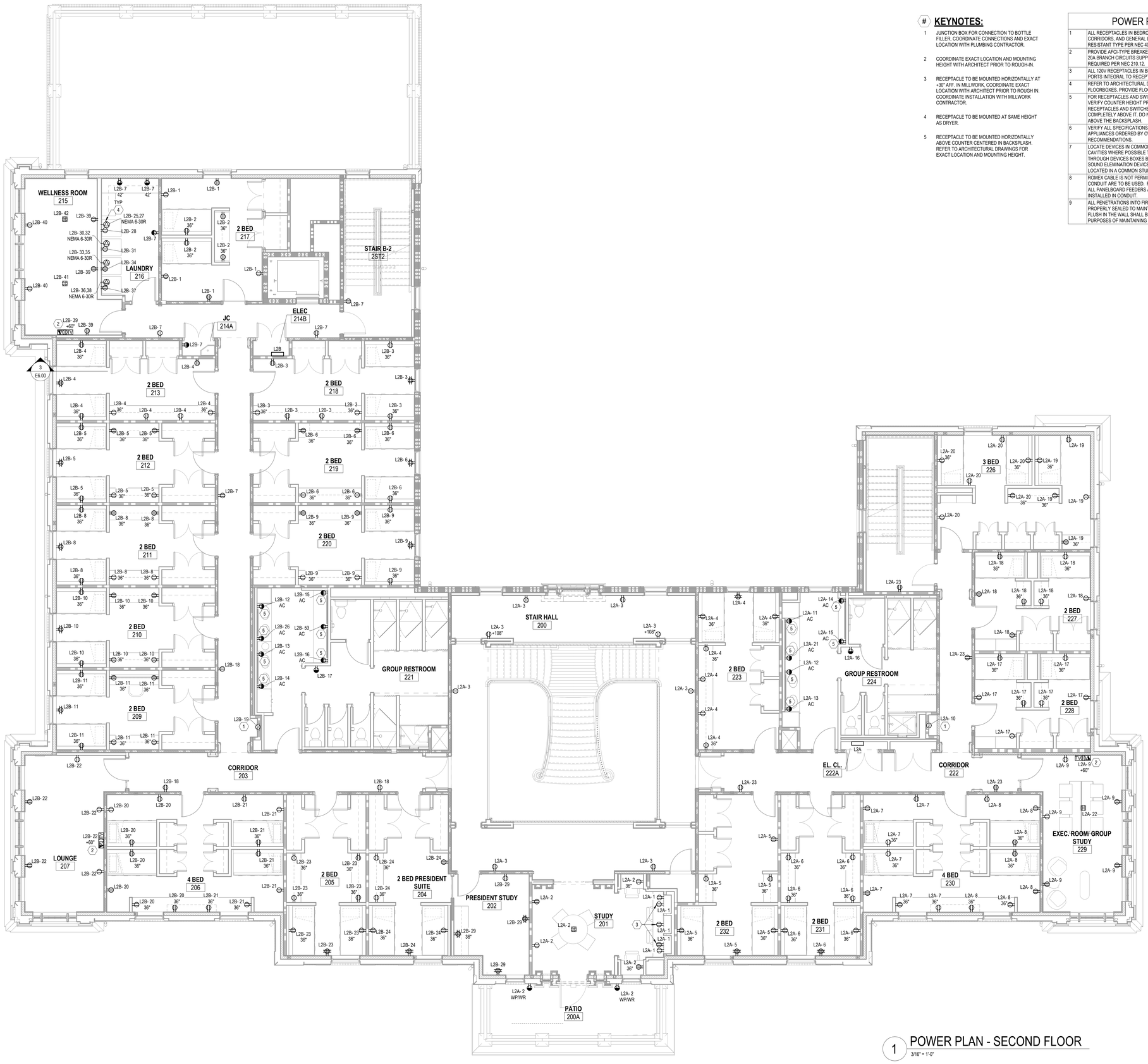

1 POWER PLAN - SECOND FLOOR
3/16" = 1'-0"

KEYNOTES:

1. JUNCTION BOX FOR CONNECTION TO BOTTLE FILLER, COORDINATE CONNECTIONS AND EXACT LOCATION WITH PLUMBING CONTRACTOR.
2. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
3. RECEPTACLE TO BE MOUNTED HORIZONTALLY AT +30" AFF. IN MILLWORK, COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH IN. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR.
4. RECEPTACLE TO BE MOUNTED AT SAME HEIGHT AS DRYER.
5. RECEPTACLE TO BE MOUNTED HORIZONTALLY ABOVE COUNTER CENTERED IN BACKSPLASH. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.

POWER PLAN NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
2	PROVIDE AFCI-TYPE BREAKER OR RECEPTACLES FOR ALL 120V, 15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ALL LOCATIONS REQUIRED PER NEC 210.12.
3	ALL 120V RECEPTACLES IN BEDROOMS SHALL HAVE (2) USB-C TYPE PORTS INTEGRAL TO RECEPTACLE.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOORBOXES. PROVIDE FLOORBOX WITH QUAD RECEPTACLE.
5	FOR RECEPTACLES AND SWITCHES INSTALLED ABOVE COUNTERS, VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. VERIFY THAT RECEPTACLES AND SWITCHES ARE IN THE BACKSPLASH OR COMPLETELY ABOVE IT. DO NOT INSTALL SO THAT IT IS PARTIALLY IN AND ABOVE THE BACKSPLASH.
6	VERIFY ALL SPECIFICATIONS AND ELECTRICAL REQUIREMENTS FOR APPLIANCES ORDERED BY OWNER. CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
7	LOCATE DEVICES IN COMMON BACK TO BACK WALLS IN SEPARATE STUD CAVITIES WHERE POSSIBLE TO PREVENT SOUND TRANSMISSION THROUGH DEVICES BOXES BETWEEN ROOMS. USE OF AN APPROVED SOUND ELEMINATION DEVICE SHALL BE USED WEHRE BOXES ARE LOCATED IN A COMMON STUD CAVITY.
8	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
9	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.

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POWER PLAN - SECOND FLOOR

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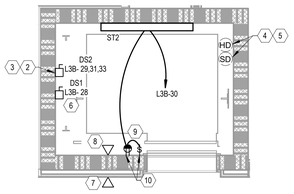


2 ELEVATOR TOP HOIST POWER PLAN

3/8" = 1'-0"

KEYNOTES:

1 JUNCTION BOX FOR CONNECTION TO BOTTLE FILLER, COORDINATE CONNECTIONS AND EXACT LOCATION WITH PLUMBING CONTRACTOR.

2 ELEVATOR IS A MACHINE-ROOMLESS TYPE. CONNECT ELEVATOR POWER TO MAIN ELEVATOR CONTROLLER AT TOP OF HOISTWAY PER MANUFACTURER'S RECOMMENDATIONS. FEEDER AND GROUND CONDUCTORS ARE REQUIRED TO BE COPPER. PROVIDE A CIRCUIT BREAKER AT THE DISTRIBUTION PANELBOARD THAT HAS THE CAPABILITY TO BE LOCKED IN THE OPEN POSITION. CIRCUIT BREAKERS ARE TO HAVE CURRENT LIMITING CHARACTERISTICS EQUIVALENT TO CLASS J FUSES. CIRCUIT BREAKER IS TO BE TIME-DELAY TO COVER THE FULL LOAD UP ACCELERATING CURRENT.

3 PROVIDE 600V, 60A-3P, NON-FUSED DISCONNECT WITH CAPABILITY TO BE LOCKED IN OPEN POSITION FOR ELEVATOR DISCONNECT REQUIRED BY NEC 620.51(C)(1). COORDINATE FINAL LOCATION OF SWITCH INSIDE HOISTWAY WITH ELEVATOR MANUFACTURER AND LOCAL INSPECTOR.

4 MOUNT SMOKE AND HEAT DETECTORS WITHIN 2FT FROM SPRINKLER HEADS. DETECTORS SHALL UPON ALARM, RE-CALL ELEVATOR TO THE APPROPRIATE LEVEL, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTORS SHALL CONTROL THE OPERATION OF THE SPRINKLER PIPING SOLENOID VALVE(S) AND THE SHUNTING OF THE MAIN ELEVATOR POWER. COORDINATE SHUTDOWN ORDER OF OPERATION WITH ELEVATOR MANUFACTURER. HEAT DETECTORS SHALL HAVE A LOWER RESPONSE TIME INDEX THAN THE SPRINKLER HEADS IN THE HOISTWAY.

KEYNOTES:

5 RECEPTACLE TO BE MOUNTED HORIZONTALLY ABOVE COUNTER CENTERED IN BACKSPLASH. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT.

5 WHERE HOISTWAY IS NOT SPRINKLERED, DO NOT PROVIDE SMOKE OR HEAT DETECTORS IN THE HOISTWAY.

6 PROVIDE 20A-1P DISCONNECT THAT IS LOCKABLE IN OPEN POSITION FOR CAB LIGHTS AND POWER. THIS SWITCH SHALL BE ADJACENT TO THE ELEVATOR MOTOR POWER SWITCH. COORDINATE FINAL LOCATION WITH ELEVATOR INSTALLER.

7 PROVIDE FLUSH JUNCTION BOX FOR TWO-WAY COMMUNICATIONS ON EACH ELEVATOR LANDING. PROVIDE COMMUNICATIONS CABLING FOR THIS REQUIREMENT. COORDINATE WITH ELEVATOR MANUFACTURER FOR INSTALLATION.

8 PROVIDE A DEDICATED OUTSIDE TELEPHONE LINE AND TERMINATE AT THE CONTROLLER DESIGNATED BY THE ELEVATOR MANUFACTURER'S CONSTRUCTION SUPERINTENDENT.

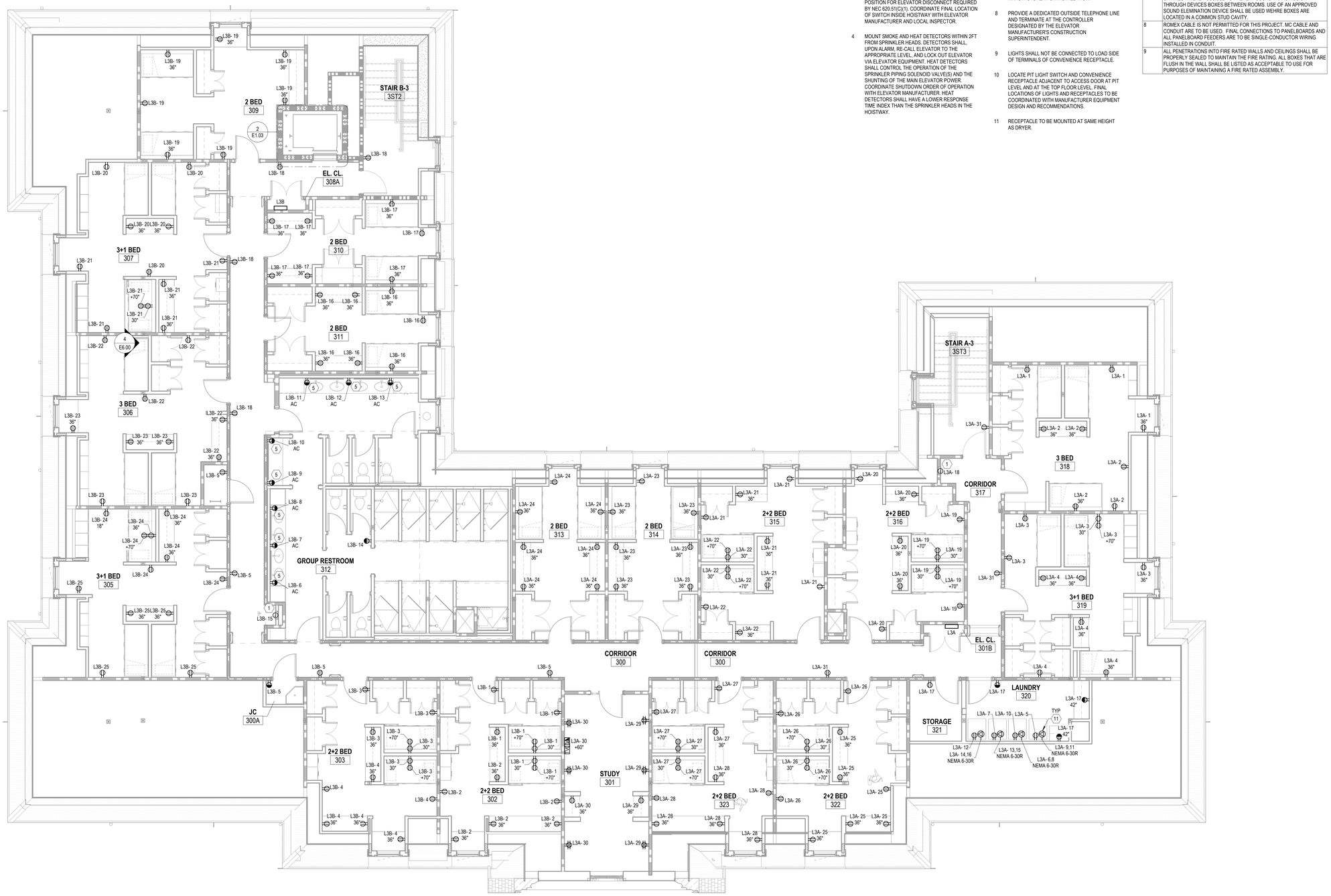
9 LIGHTS SHALL NOT BE CONNECTED TO LOAD SIDE OF TERMINALS OF CONVENIENCE RECEPTACLE.

10 LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR AT PIT LEVEL AND AT THE TOP FLOOR LEVEL. FINAL LOCATIONS OF LIGHTS AND RECEPTACLES TO BE COORDINATED WITH MANUFACTURER EQUIPMENT DESIGN AND RECOMMENDATIONS.

11 RECEPTACLE TO BE MOUNTED AT SAME HEIGHT AS DRYER.

POWER PLAN NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
2	PROVIDE AFCI-TYPE BREAKER OR RECEPTACLES FOR ALL 120V, 15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ALL LOCATIONS REQUIRED PER NEC 210.12.
3	ALL 120V RECEPTACLES IN BEDROOMS SHALL HAVE (2) USB-C TYPE PORTS INTEGRAL TO RECEPTACLE.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOORBOXES. PROVIDE FLOORBOX WITH QUAD RECEPTACLE.
5	FOR RECEPTACLES AND SWITCHES INSTALLED ABOVE COUNTERS, VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. VERIFY THAT RECEPTACLES AND SWITCHES ARE IN THE BACKSPLASH OR COMPLETELY ABOVE IT. DO NOT INSTALL SO THAT IT IS PARTIALLY IN AND ABOVE THE BACKSPLASH.
6	VERIFY ALL SPECIFICATIONS AND ELECTRICAL REQUIREMENTS FOR APPLIANCES ORDERED BY OWNER. CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
7	LOCATE DEVICES IN COMMON BACK TO BACK WALLS IN SEPARATE STUD CAVITIES WHERE POSSIBLE TO PREVENT SOUND TRANSMISSION THROUGH DEVICES BOXES BETWEEN ROOMS. USE OF AN APPROVED SOUND ELEMINATION DEVICE SHALL BE USED WEHRE BOXES ARE LOCATED IN A COMMON STUD CAVITY.
8	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
9	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.



1 POWER PLAN - THIRD FLOOR

3/16" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title

POWER PLAN - THIRD FLOOR

Sheet No.

E1.03

Project Name
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MECHANICAL POWER PLAN NOTES

1	ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS, LOCATE DISCONNECTS, ROUTE ALL CONDUIT AND WIRING TO MAKE COMPLETED AND OPERATIONAL SYSTEMS AND EQUIPMENT.
2	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
3	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.
4	CONTROLS CONTRACTOR TO PROVIDE ALL CONDUIT AND WIRING FOR MECHANICAL AND PLUMBING UNIT CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY ELECTRICAL REQUIREMENTS.

DISCONNECT SCHEDULE

TAG	DESCRIPTION	POLES	VOLTAGE	NEMA TYPE	MOUNTING	FUSE SIZE
DFP	DISCONNECT FACTORY PROVIDED	NA	NA	NA	NA	NA
DS1	30 AMP DISCONNECT	1	120 V	NEMA 1	NA	NA
DS2	60 AMP DISCONNECT	3	208 V	NEMA 1	NA	NA
DS3	60 AMP DISCONNECT	3	208 V	NEMA 3R	NA	NA
DS4	30 AMP DISCONNECT	2	208 V	NEMA 3R	NA	NA
DS5	30 AMP DISCONNECT	2	208 V	NEMA 1	NA	NA
E86E	FREEZER CONDENSING UNIT	2	208 V	NEMA 3R	SURFACE	NA

KEYNOTES:

1 DISCONNECT SHOWN FOR CONNECTION POINT TO FACTORY PROVIDED VFD. COORDINATE EXACT LOCATION AND CONNECTIONS WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. FURNISH AND INSTALL CONDUCTORS FROM BREAKER TO VFD, AND FURNISH AND INSTALL SHIELDED VFD CONDUCTORS BETWEEN VFD AND MOTORS. CONTROL WIRING TO BE DONE BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND PULL-STRING FOR CONTROL WIRING.

2 JUNCTION BOX FOR CONNECTION TO AHU LIGHT SYSTEM. COORDINATE EXACT LOCATION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.

3 JUNCTION BOX FOR CONNECTION TO AHU UV LIGHT PANEL. COORDINATE EXACT LOCATION AND CONNECTION WITH MECHANICAL CONTRACTOR.

4 FEEDER TO BE ROUTED UNDERGROUND. COORDINATE ROUTING AND INSTALLATION WITH OTHER UNDERGROUND INSTALLED CONDUITS AND PIPES.

KEYNOTES:

5 PROVIDE 2" CONDUIT ROUTED UNDERGROUND FROM CHILLER TO INTERIOR MECH ROOM FOR CONTROL WIRING. COORDINATE WITH CONTROLS CONTRACTOR FOR ANY OTHER REQUIREMENTS.

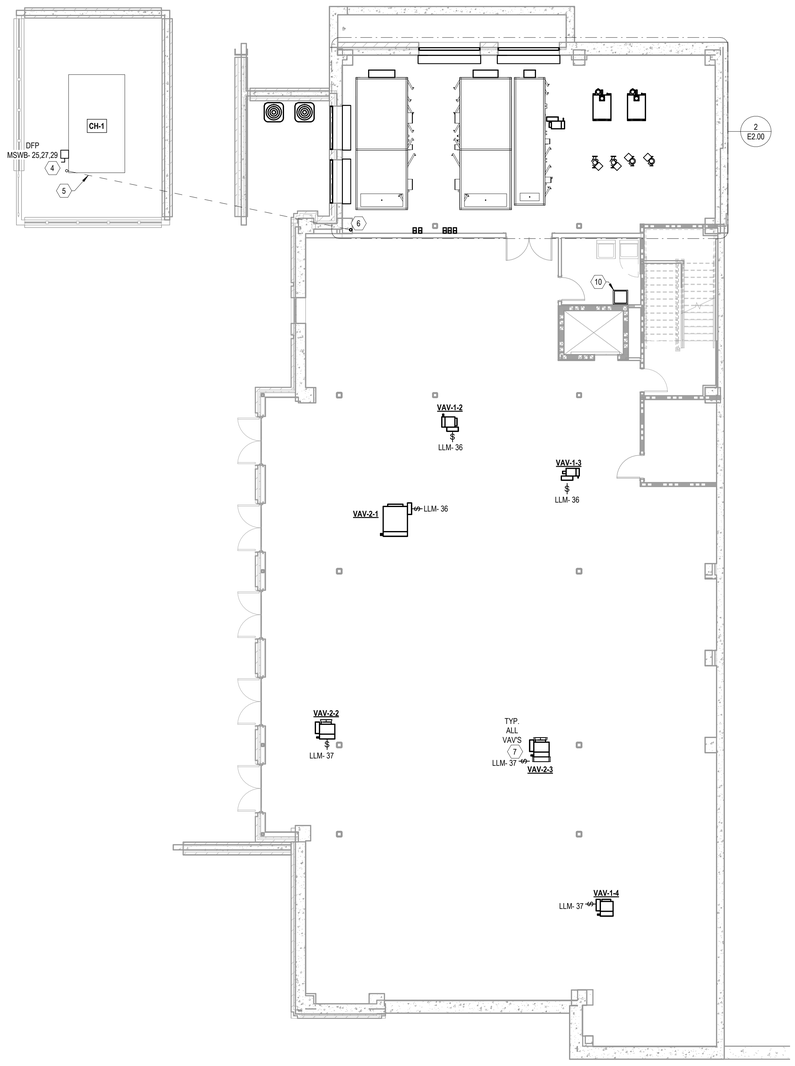
6 STUB CONDUIT UP INTO BUILDING FOR FUTURE CONNECTION BY CONTROLS CONTRACTOR.

7 DISCONNECT SWITCH PROVIDED WITH UNIT. COORDINATE TERMINATIONS TO EQUIPMENT WITH MECHANICAL CONTRACTOR.

8 PROVIDE RECEPTACLE FOR WATER HEATER CONNECTION AND MEANS OF DISCONNECT. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.

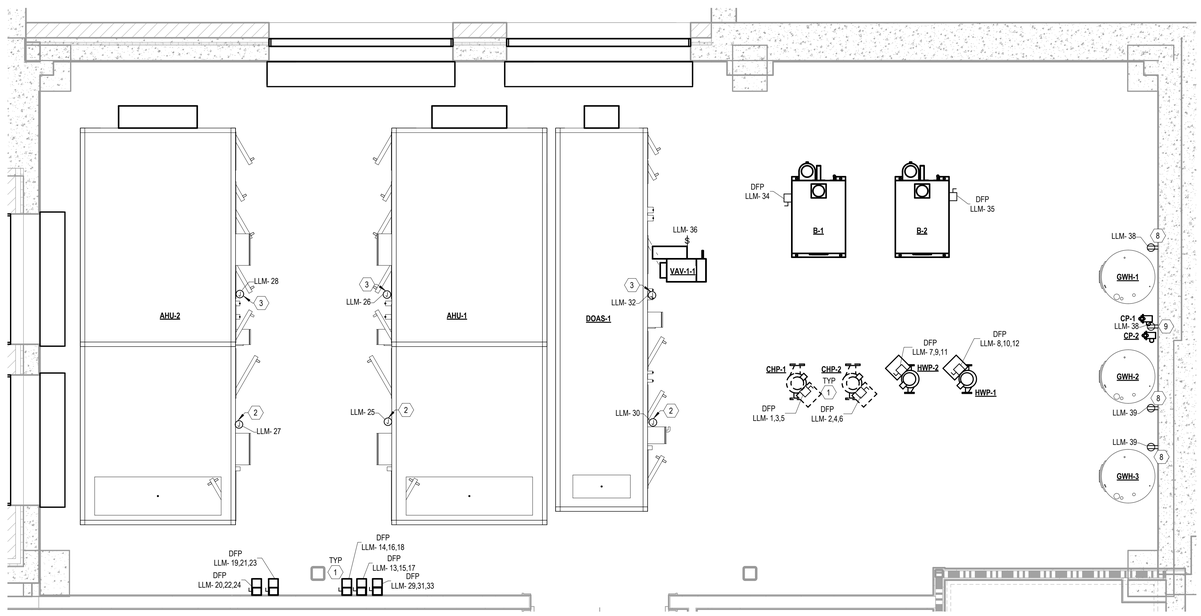
9 PROVIDE RECEPTACLE FOR CIRCULATION PUMP CONNECTIONS AND MEANS OF DISCONNECT. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.

10 PROVIDE POWER TO FIRE/SMOKE DAMPER PER MANUFACTURER'S REQUIREMENTS. PROVIDE 1"C AND PULL-STRING TO EACH DAMPER, ROUTED TO FIRE ALARM CONTROL PANEL FOR MONITORING OF DAMPER.



1 MECHANICAL POWER PLAN - LOWER LEVEL
1/8" = 1'-0"

COORDINATE FINAL MECHANICAL AND PLUMBING EQUIPMENT LOCATIONS WITH CONTRACTORS PRIOR TO ROUGH-IN TO ROUTE UNDERGROUND CONDUITS TO THE REQUIRED LOCATIONS.



2 ENLARGED MECHANICAL ROOM
3/8" = 1'-0"

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MECHANICAL POWER PLAN - LOWER LEVEL
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E2.00

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MECHANICAL POWER PLAN NOTES

1	ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS, LOCATE DISCONNECTS, ROUTE ALL CONDUIT AND WIRING TO MAKE COMPLETED AND OPERATIONAL SYSTEMS AND EQUIPMENT.
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4	CONTROLS CONTRACTOR TO PROVIDE ALL CONDUIT AND WIRING FOR MECHANICAL AND PLUMBING UNIT CONTROLS. COORDINATE WITH MECHANICAL CONTRACTOR FOR ANY ELECTRICAL REQUIREMENTS.

DISCONNECT SCHEDULE

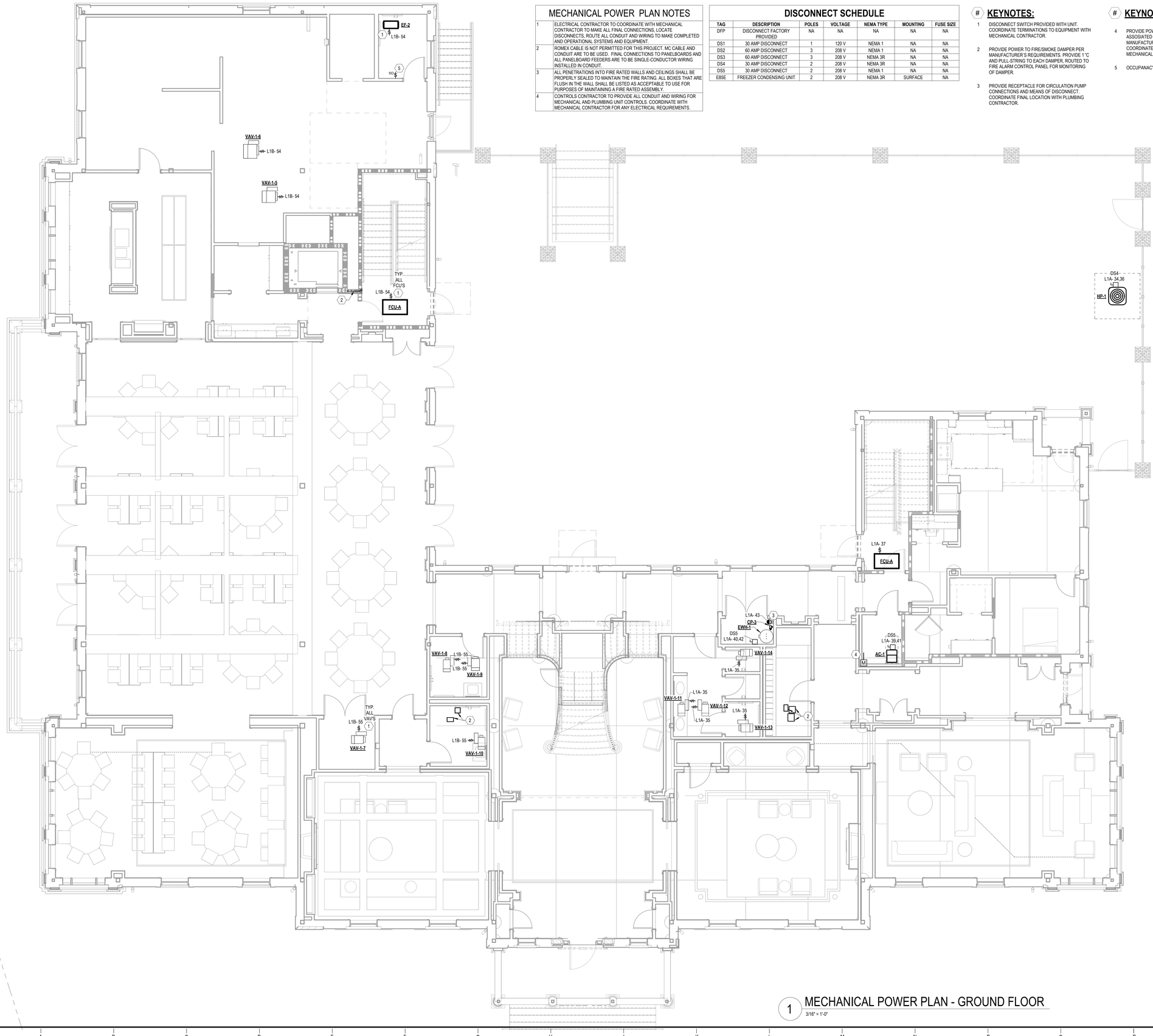
TAG	DESCRIPTION	POLES	VOLTAGE	NEMA TYPE	MOUNTING	FUSE SIZE
DFP	DISCONNECT FACTORY PROVIDED	NA	NA	NA	NA	NA
DS1	30 AMP DISCONNECT	1	120 V	NEMA 1	NA	NA
DS2	60 AMP DISCONNECT	3	208 V	NEMA 1	NA	NA
DS3	60 AMP DISCONNECT	3	208 V	NEMA 3R	NA	NA
DS4	30 AMP DISCONNECT	2	208 V	NEMA 3R	NA	NA
DS5	30 AMP DISCONNECT	2	208 V	NEMA 1	NA	NA
E85E	FREEZER CONDENSING UNIT	2	208 V	NEMA 3R	SURFACE	NA

KEYNOTES:

1. DISCONNECT SWITCH PROVIDED WITH UNIT. COORDINATE TERMINATIONS TO EQUIPMENT WITH MECHANICAL CONTRACTOR.
2. PROVIDE POWER TO FIRE/SMOKE DAMPER PER MANUFACTURER'S REQUIREMENTS. PROVIDE 1 °C AND PULL-STRING TO EACH DAMPER. ROUTED TO FIRE ALARM CONTROL PANEL FOR MONITORING OF DAMPER.
3. PROVIDE RECEPTACLE FOR CIRCULATION PUMP CONNECTIONS AND MEANS OF DISCONNECT. COORDINATE FINAL LOCATION WITH PLUMBING CONTRACTOR.

KEYNOTES:

4. PROVIDE POWER TO MOTORIZED DAMPER FROM ASSOSIATED AHU. CONNECT PER MANUFACTURER'S RECOMMENDATIONS. COORDINATE ALL REQUIREMENTS WITH MECHANICAL CONTRACTOR.
5. OCCUPANACY SENSOR FOR CONTROL OF EF-2.



1 MECHANICAL POWER PLAN - GROUND FLOOR
3/16" = 1'-0"

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MECHANICAL POWER PLAN NOTES

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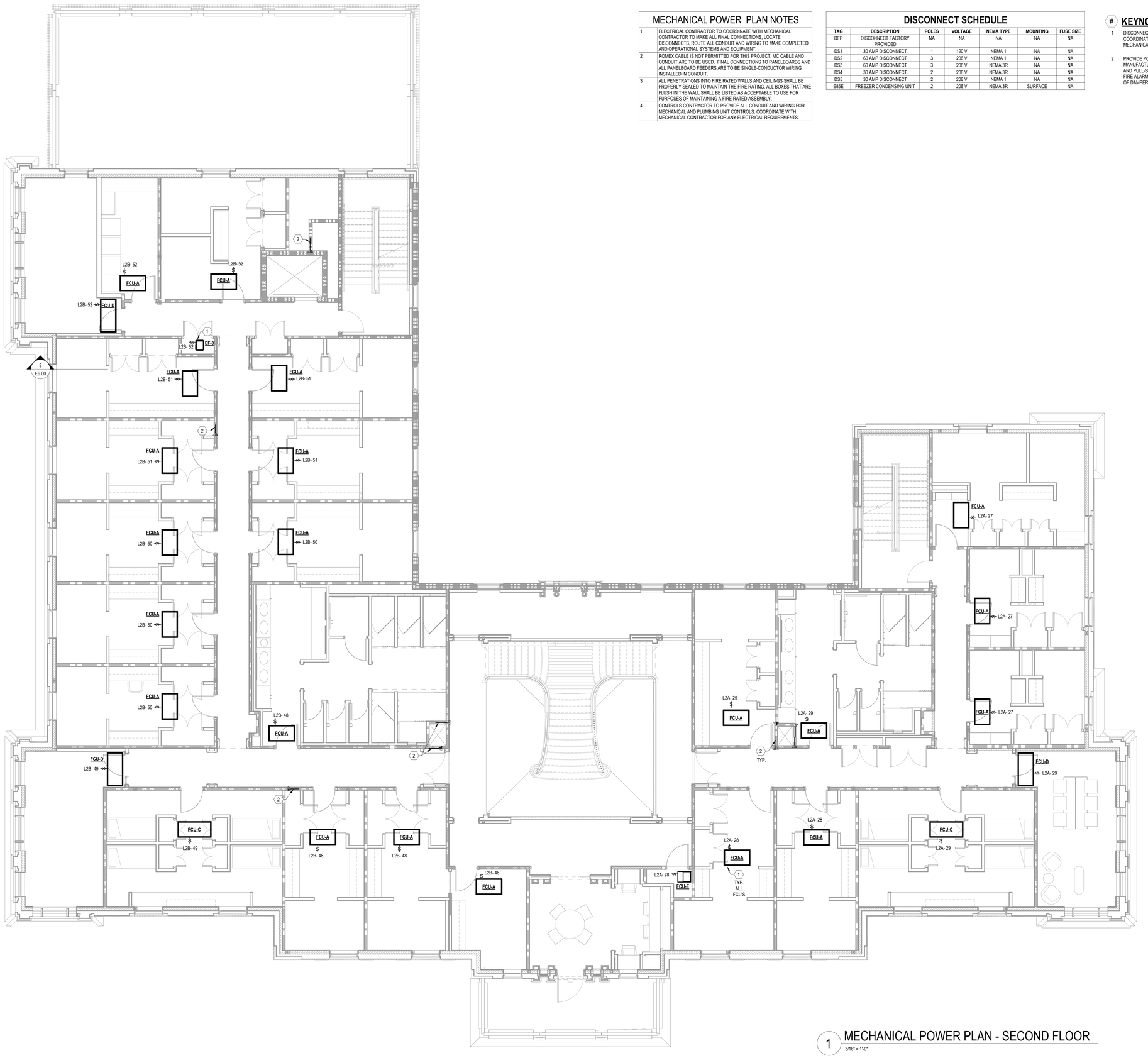
DISCONNECT SCHEDULE

TAG	DESCRIPTION	POLES	VOLTAGE	NEMA TYPE	MOUNTING	FUSE SIZE
DFP	DISCONNECT FACTORY PROVIDED	NA	NA	NA	NA	NA
DS1	30 AMP DISCONNECT	1	120 V	NEMA 1	NA	NA
DS2	60 AMP DISCONNECT	3	208 V	NEMA 1	NA	NA
DS3	60 AMP DISCONNECT	3	208 V	NEMA 3R	NA	NA
DS4	30 AMP DISCONNECT	2	208 V	NEMA 3R	NA	NA
DS5	30 AMP DISCONNECT	2	208 V	NEMA 1	NA	NA
E85E	FREEZER CONDENSING UNIT	2	208 V	NEMA 3R	SURFACE	NA

KEYNOTES:

1 DISCONNECT SWITCH PROVIDED WITH UNIT. COORDINATE TERMINATIONS TO EQUIPMENT WITH MECHANICAL CONTRACTOR.

2 PROVIDE POWER TO FIRE/SMOKE DAMPER PER MANUFACTURER'S REQUIREMENTS. PROVIDE 1 "C AND PULL-STRING TO EACH DAMPER, ROUTED TO FIRE ALARM CONTROL PANEL FOR MONITORING OF DAMPER.



1 MECHANICAL POWER PLAN - SECOND FLOOR
3/16" = 1'-0"

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MECHANICAL POWER PLAN NOTES

1	ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR TO MAKE ALL FINAL CONNECTIONS. LOCATE DISCONNECTS. ROUTE ALL CONDUIT AND WIRING TO MAKE COMPLETED AND OPERATIONAL SYSTEMS AND EQUIPMENT.
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DISCONNECT SCHEDULE

TAG	DESCRIPTION	POLES	VOLTAGE	NEMA TYPE	MOUNTING	FUSE SIZE
DFP	DISCONNECT FACTORY PROVIDED	NA	NA	NA	NA	NA
DS1	30 AMP DISCONNECT	1	120 V	NEMA 1	NA	NA
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DS4	30 AMP DISCONNECT	2	208 V	NEMA 3R	NA	NA
DS5	30 AMP DISCONNECT	2	208 V	NEMA 1	NA	NA
E85E	FREEZER CONDENSING UNIT	2	208 V	NEMA 3R	SURFACE	NA

KEYNOTES:

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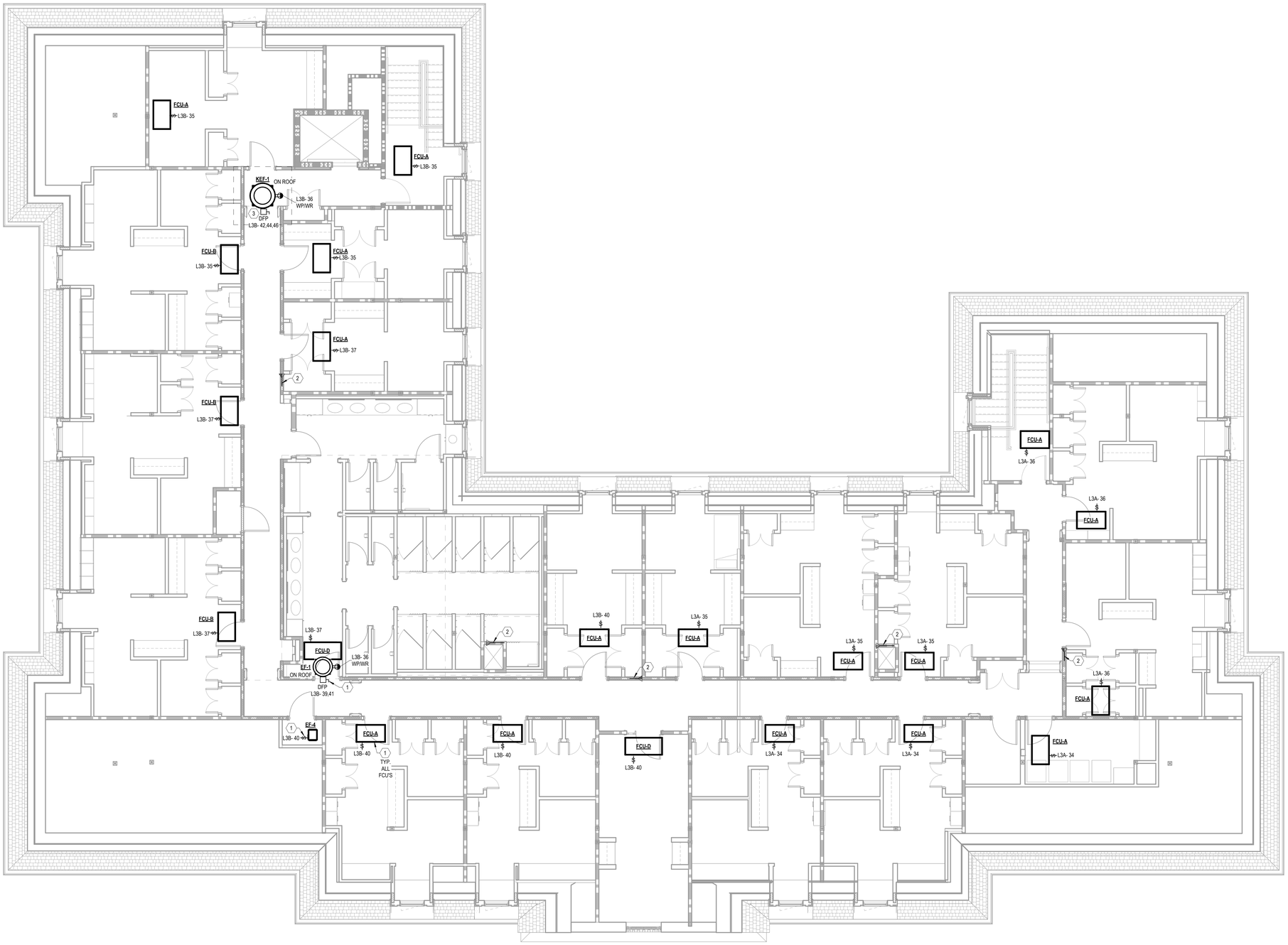
2 PROVIDE POWER TO FIRE/SMOKE DAMPER PER MANUFACTURER'S REQUIREMENTS. PROVIDE 1"C AND PULL-STRING TO EACH DAMPER, ROUTED TO FIRE ALARM CONTROL PANEL FOR MONITORING OF DAMPER.

3 DISCONNECT SWITCH PROVIDED WITH UNIT. COORDINATE TERMINATIONS TO EQUIPMENT WITH MECHANICAL CONTRACTOR. COORDINATE WITH KITCHEN HOOD DOCUMENTS AND WIRE PER MANUFACTURER'S RECOMMENDATIONS.



1 MECHANICAL POWER PLAN - THIRD FLOOR
3/16" = 1'-0"

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1 LIGHTING PLAN - LOWER LEVEL

3/16" = 1'-0"

LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL	LOAD	VOLTAGE	COLOR TEMPERATURE	FURNISHED BY	LAMP TYPE	LUMENS	MOUNTING TYPE
B1	2X4 LED LAY-IN, FLAT PANEL, MEDIUM SETTING	COOPER	24CGTS-L3C3	30 VA	UNV	4000K	CONTRACTOR	LED 0-10V DIMMING	6143	RECESSED
B1E	2X4 LED LAY-IN, FLAT PANEL, MEDIUM SETTING	COOPER	24CGTS-L3C3-EL14W	30 VA	UNV	4000K	CONTRACTOR	LED 0-10V DIMMING	6143	RECESSED
C1	LED LINEAR	COOPER	2SNLED-LD5-20SL-UNV-L830-U	20 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	2000	WALL SURFACE
CH1	47" CHANDELIER	PERIGOLD	MICHAEL AMINI SUMMER PALACE 30 - LIGHT CHANDELIER	180 VA	120V	3000K	OWNER	6W LED	NA	SUSPENDED
CH2	42" CHANDELIER	LIGHTING NEW YORK	BROCHE 12 LIGHT 42 INCH ANTIQUE GOLD CHANDELIER CEILING LIGHT	60 VA	120V	3000K	OWNER	5W LED	NA	SUSPENDED
CH3	36" CHANDELIER	RADILUM	WHITNET CHANDELIER	10 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
CH4	50" CHANDELIER	POTTERYBARN	LUCCA IRON CHANDELIER	72 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
CH5	40" CHANDELIER	PERIGOLD	NAPLES CHANDELIER - 12 HEADS	144 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
CH6	28" CHANDELIER	WAYFAIR	LUXURY 6 - LIGHT BASKET CRYSTAL FLORAL GLASS CHANDELIER	72 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
CH7	45" CHANDELIER	SHADES OF LIGHT	AYLIN DRUM CHANDELIER - 8 LIGHT	96 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
CH8	36" CHANDELIER	LAMPSPLUS	MAXIM PALOMA 36" WIDE 8-LIGHT GOLD LEAF CANDELABRA CHANDELIER	84 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
CH9	40" PENDANT	LUMENS	ARCATA CHANDELIER	24 VA	120V	3000K	OWNER	4W LED	NA	SUSPENDED
D1	2" LED RECESSED DOWNLIGHT	COOPER	LD2B10D010-EUZB-0510WFL55-80-30-2LBD1L1	10 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	1000	RECESSED
D2	4" LED RECESSED DOWNLIGHT	COOPER	LD4C089030-D010-M1L1	10 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	800	RECESSED
D3	4" LED RECESSED DOWNLIGHT, WET LOCATION LISTED	COOPER	LD4C109030-D010-M1L1	10 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	1000	RECESSED
D4	4" LED ADJUSTABLE HEAD DOWNLIGHT, WITH FIRE RATED HOUSING	COOPER	DOWNLIGHT: HLA406FS5 FIRE RATED HOUSING: H450FR2ICATD010	10 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	660	RECESSED
D5	4" LED RECESSED DOWNLIGHT, WET LOCATION LISTED	COOPER	LD4C05930-D010-M1L1	10 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	500	RECESSED
D6	4" LED RECESSED DOWNLIGHT, WITH FIRE RATED HOUSING	COOPER	DOWNLIGHT: LD4C309030D010 FIRE RATED HOUSING: EZB16-24-9I	30 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	3000	RECESSED
G1	20" PATH LIGHT FIXTURE	DAUER MANUFACTURING	ARIA 20" 489917-P20-FINISH	7 VA	120V	3000K	CONTRACTOR	7W LED	800	GROUND MOUNTED
G2	PATH LIGHT FIXTURE	COSTAL SOURCE	NICHE 90 DEGREE MARK LIGHT	8 VA	120V	3000K	CONTRACTOR	LED	120	GROUND MOUNTED
M1	LED BACK LIT MIRROR	MEEK MIRRORS	ML-5300 SERIES, CUSTOM SIZES, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT SIZES.	60 VA	120V	3000K	CONTRACTOR	LED	NA	WALL SURFACE
P3	18" PENDANT	SHADES OF LIGHT	MIERY PENDANT LARGE	48 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
P4	18" PENDANT	SHADES OF LIGHT	LUSTRE EN TRANSITION CONVERTIBLE LANTERN	48 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
P5	5" PENDANT	SHADES OF LIGHT	LAYERED STRIPED GLASS PENDANT	12 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
P6	EXTERIOR HANGING CHAIN LANTERN	BEVOLO	MARKET STREET COLLECTIION MS-21 FLUSH MOUNT	60 VA	120V	3000K	CONTRACTOR	(3) SATCO S21316 14W LED 1500 LUMEN	1500	SUSPENDED
P7	15" PENDANT	LAMPSPLUS	HINKLEY COLLINS 15" WIDE HERITAGE BRASS PENDANT	12 VA	120V	3000K	OWNER	12W LED	NA	SUSPENDED
PL1	LED AREA LITE - POLE MOUNTED	COOPER	GALN-SA3C-830-2-T4FT-HSS	131 VA	120V	3000K	CONTRACTOR	INTEGRAL LED	16949	POLE
S1	16" FLUSH MOUNT FIXTURE	REJUVENATION	ANKENY ALABASTER LED FLUSH MOUNT	17 VA	120V	3000K	OWNER	17W LED	NA	SURFACE
S2	16" FLUSH MOUNT FIXTURE	SHADES OF LIGHT	OLIVE LEAF SEMI-FLUSH CEILING LIGHT - 4 LIGHT	48 VA	120V	3000K	OWNER	12W LED	NA	SURFACE
S3	16" SURFACE MOUNTED DOME LIGHT	REJUVENATION	EASTMORELAND 8" FITTER SEMI-FLUSH MOUNT	12 VA	120V	3000K	OWNER	12W LED	NA	SURFACE
S4	18" FLUSH MOUNT FIXTURE	REJUVENATION	MAVIS SEMI-FLUSH MOUNT	10 VA	120V	3000K	OWNER	12W LED	NA	SURFACE
SC1	BATHROOM WALL SCONCE	LIGHTOLOGY	FLORA TALL BEADED WALL SCONCE	7 VA	120V	3000K	OWNER	7W LED	NA	WALL SURFACE
SC3	WALL SCONCE	LUMENS	BROCHE 1 - LIGHT WALL SCONCE	12 VA	120V	3000K	OWNER	12W LED	NA	WALL SURFACE
SC4	WALL SCONCE	POTTERYBARN	PALMER METAL SCONCE (18")	12 VA	120V	3000K	OWNER	12W LED	NA	WALL SURFACE
SC5	WALL SCONCE	MCGEE & CO	ALBURGH SCONCE	12 VA	120V	3000K	OWNER	12W LED	NA	WALL SURFACE
SC6	EXTERIOR WALL SCONCE	THE COPPERSMITH	MARKET STREET COLLECTIION MS-19 FLUSH MOUNT	15 VA	120V	3000K	CONTRACTOR	(2) SATCO S21316 10W LED 350 LUMEN MIN.	350	WALL SURFACE
SC7	EXTERIOR COLUMN FIXTURE	BEVOLO	WILLIAMSBURG 18.5" FLUSH MOUNT	18 VA	120V	3000K	CONTRACTOR	10W LED 800 LUMEN MIN.	800	COLUMN
SC8	EXTERIOR COLUMN FIXTURE	THE COPPERSMITH	CONTEMPO 31 ELECTRIC WITH COPPER PIER MOUNT	60 VA	120V	3000K	CONTRACTOR	7W LED	NA	COLUMN
SC9	WALL SCONCE	REJUVENATION	EDEN SWING-ARM SCONCE	12 VA	120V	3000K	OWNER	12W LED	NA	WALL SURFACE
SC10	WALL SCONCE	REJUVENATION	CABINET MAKER'S PICTURE LIGHT	25 VA	120V	3000K	OWNER	25W LED	NA	WALL SURFACE
SC12	WALL SCONCE	CRUE	K-35872-SC01	12 VA	120V	3000K	OWNER	12W LED	NA	WALL SURFACE
ST1	4FT LED LINEAR	STARTEK	BEAMD-4-1000-WD-30K-80-FINISH-U-1C	40 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	4000	SUSPENDED
ST1E	4FT LED LINEAR	STARTEK	BEAMD-4-1000-WD-30K-80-FINISH-U-1C-EMB10	40 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	4000	SUSPENDED
ST2	4 FT LED VAPORTITE	COOPER	4APVTLD-SL3C3	45 VA	UNV	4000K	CONTRACTOR	LED 0-10V DIMMING	4900	SURFACE
ST3	4 FT LED STRIP	COOPER	4SNLED-LD5-48SL-UNV-L840-CD1-U	40 VA	UNV	4000K	CONTRACTOR	LED 0-10V DIMMING	4800	SUSPENDED
ST3E	4 FT LED STRIP WITH OBB	COOPER	4SNLED-LD5-48SL-UNV-EL14W-L840-CD1-U	40 VA	UNV	4000K	CONTRACTOR	LED 0-10V DIMMING	4800	SUSPENDED
SW1	4 FT LED STAIR LIGHTER WITH OBB.	STARTEK	BEAMDI-4-1250-350-WD-CL-30K-80-FINISH-U-1C-EMB10	40 VA	UNV	3000K	CONTRACTOR	LED 0-10V DIMMING	5000	WALL SURFACE
UC1	UNDERCOUNTER TAPE LIGHT - FIELD VERIFY EXACT LENGTH	ACE LIGHTING	TAPE LIGHT: ACE-K-400-30K-1P20-XX HOUSING: PRO-101-MC-WHITE-FINISH-XX	<varies>	120V	3000K	CONTRACTOR	LED 0-10V DIMMING	NA	SURFACE
W1	EXTERIOR STEP LIGHT	AURORALIGHT	LSW8-W-C-30-MOUNT-FINISH	2 VA	120V	3000K	CONTRACTOR	LED	NA	WALL SURFACE
X1	EXIT SIGN, EDGE-LIT, RED LETTERS, 90-MINUTE BATTERY BACK-UP, DAMP LOCATION LISTED	COOPER	EUR-7-0-R	2 VA	UNV	NA	CONTRACTOR	LED	NA	RECESSED

ALL LIGHT FIXTURES ARE BASIS OF DESIGN. APPROVAL FROM OWNER REQUIRED PRIOR TO PURCHASING ANY LIGHT FIXTURE. IF ALTERNATE LIGHT FIXTURES ARE CHOSEN, THEY SHALL BE APPROVED BY ENGINEER AS WELL AS OWNER TO BE CONFIRMED AS AN ACCEPTABLE EQUAL. DISTANCES BETWEEN EMERGENCY LIGHTS MAY NEED TO BE REVISED IF DIFFERENT FIXTURE IS SELECTED THAN SHOWN. FOLLOW MANUFACTURER SPACING RECOMMENDATIONS FOR EMERGENCY FIXTURES. FINAL FINISH SELECTIONS TO BE APPROVED BY ARCHITECT.

LIGHTING PLAN NOTES

1	REFERENCE ARCHITECTURAL RCPs FOR EXACT LOCATION & MOUNTING HEIGHTS LIGHT FIXTURES TYPICAL.
2	COMBINE ADJACENT WALL SWITCHES INTO COMMON GANGED BOX AND WALL PLATE.
3	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
4	ROOMS THAT HAVE TWO SEPARATE LIGHTING CIRCUITS, SUCH AS RESTROOMS, SHALL HAVE A DUAL CIRCUIT OCCUPANCY SENSOR TO BE ABLE TO CONTROL ALL LIGHTS FROM ONE OCCUPANCY SENSOR.
5	ALL D1 FIXTURES ON EMERGENCY CIRCUIT AND HAVE LOCAL ROOM CONTROL TO BE PROVIDED WITH UL924 DEVICE TO ENSURE FIXTURES TURN ON DURING POWER LOSS. ALL FIXTURES FED FROM LIGHTING INVERTER (LV1) ARE CONSIDERED TO BE EMERGENCY FIXTURES, AND SHALL TURN ON TO FULL POWER IN THE EVENT OF POWER LOSS.

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LIGHTING PLAN - LOWER LEVEL

Sheet No.

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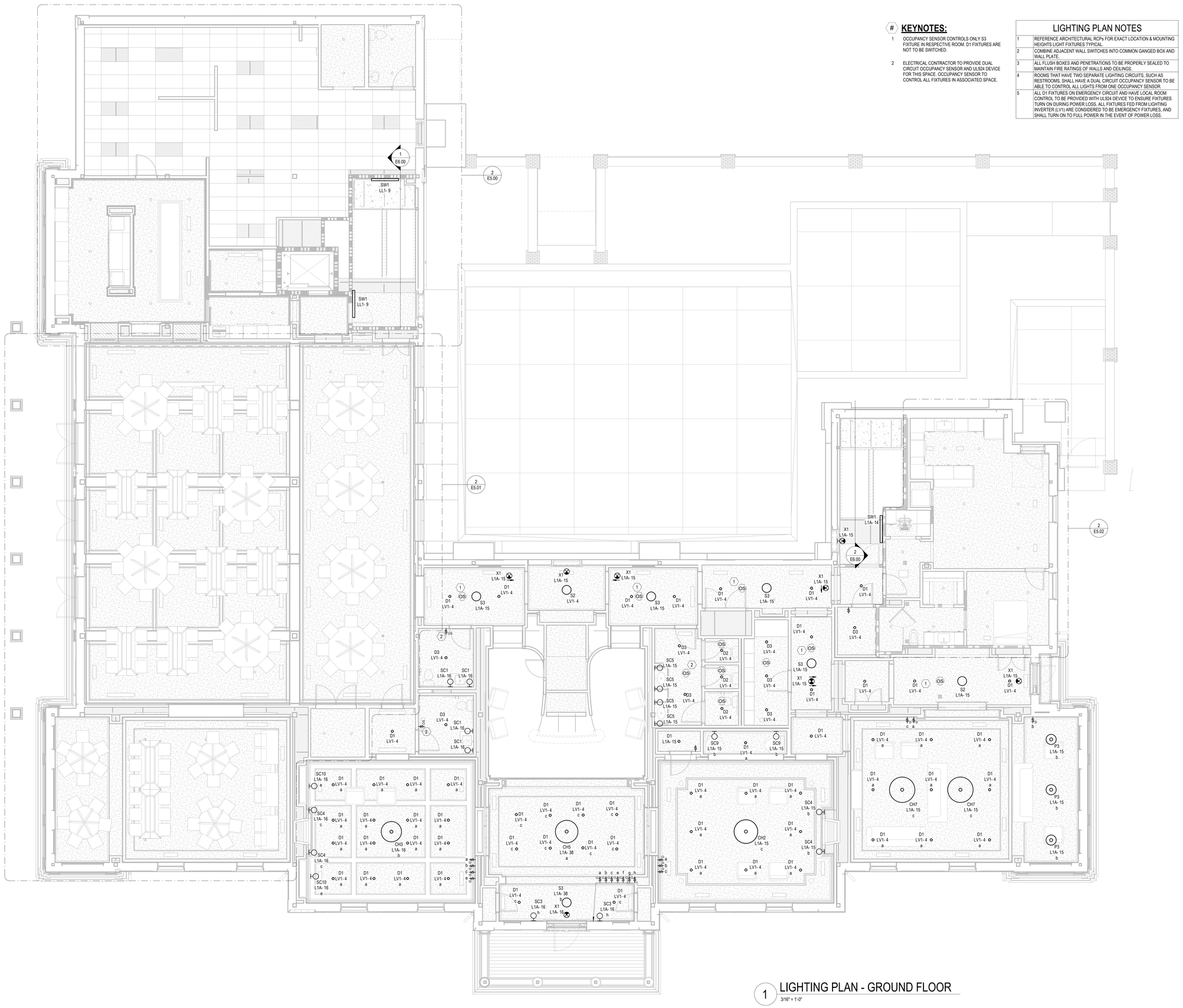

1 LIGHTING PLAN - GROUND FLOOR
3/16" = 1'-0"

KEYNOTES:

1 OCCUPANCY SENSOR CONTROLS ONLY S3 FIXTURE IN RESPECTIVE ROOM. D1 FIXTURES ARE NOT TO BE SWITCHED.

2 ELECTRICAL CONTRACTOR TO PROVIDE DUAL CIRCUIT OCCUPANCY SENSOR AND UL924 DEVICE FOR THIS SPACE. OCCUPANCY SENSOR TO CONTROL ALL FIXTURES IN ASSOCIATED SPACE.

LIGHTING PLAN NOTES

1	REFERENCE ARCHITECTURAL RCPs FOR EXACT LOCATION & MOUNTING HEIGHTS LIGHT FIXTURES TYPICAL.
2	COMBINE ADJACENT WALL SWITCHES INTO COMMON GANGED BOX AND WALL PLATE.
3	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
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LIGHTING PLAN - GROUND FLOOR

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KEYNOTES:

1 ELECTRICAL CONTRACTOR TO PROVIDE DUAL CIRCUIT OCCUPANCY SENSOR AND UL924 DEVICE FOR THIS SPACE. OCCUPANCY SENSOR TO CONTROL ALL FIXTURES IN ASSOCIATED SPACE.

LIGHTING PLAN NOTES	
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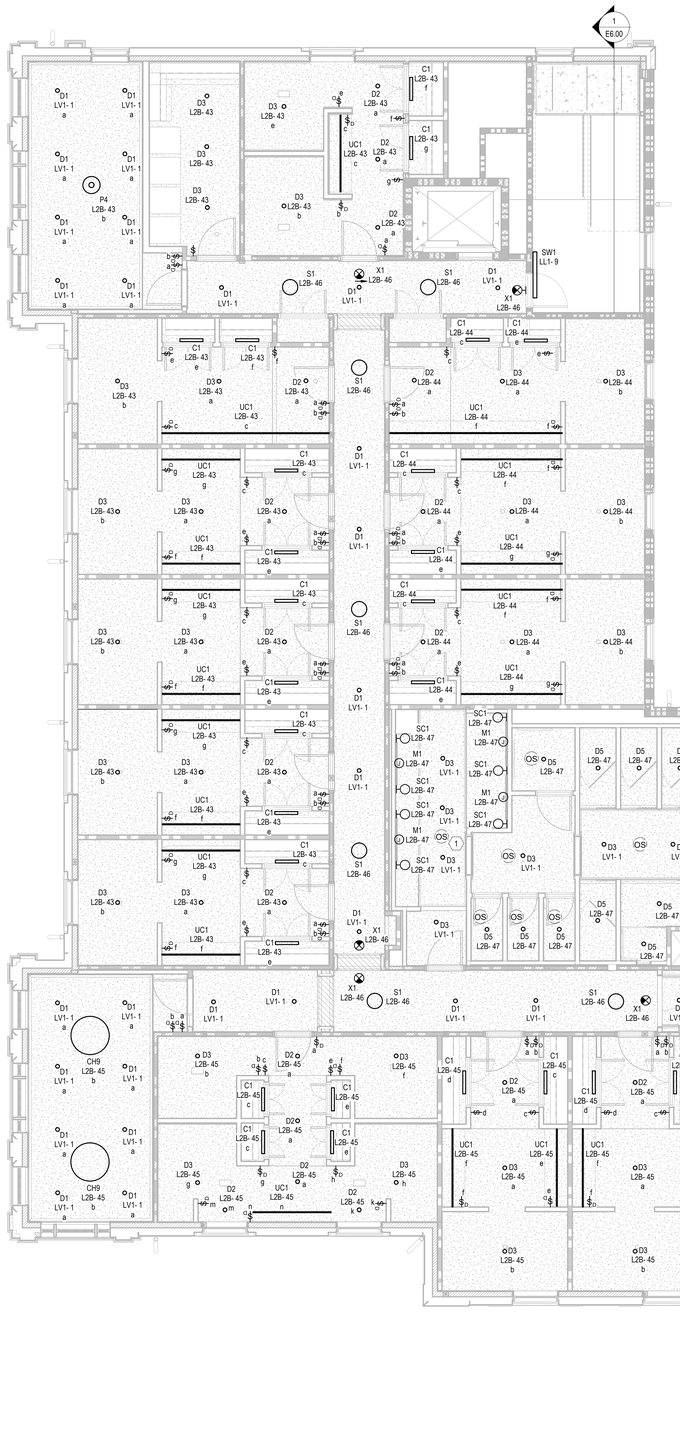

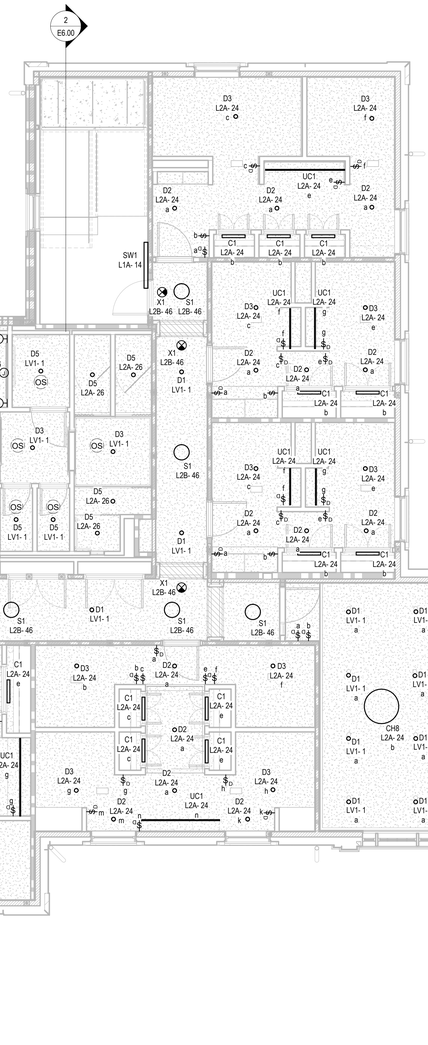

1 LIGHTING PLAN - SECOND FLOOR
3/16" = 1'-0"

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LIGHTING PLAN - SECOND FLOOR

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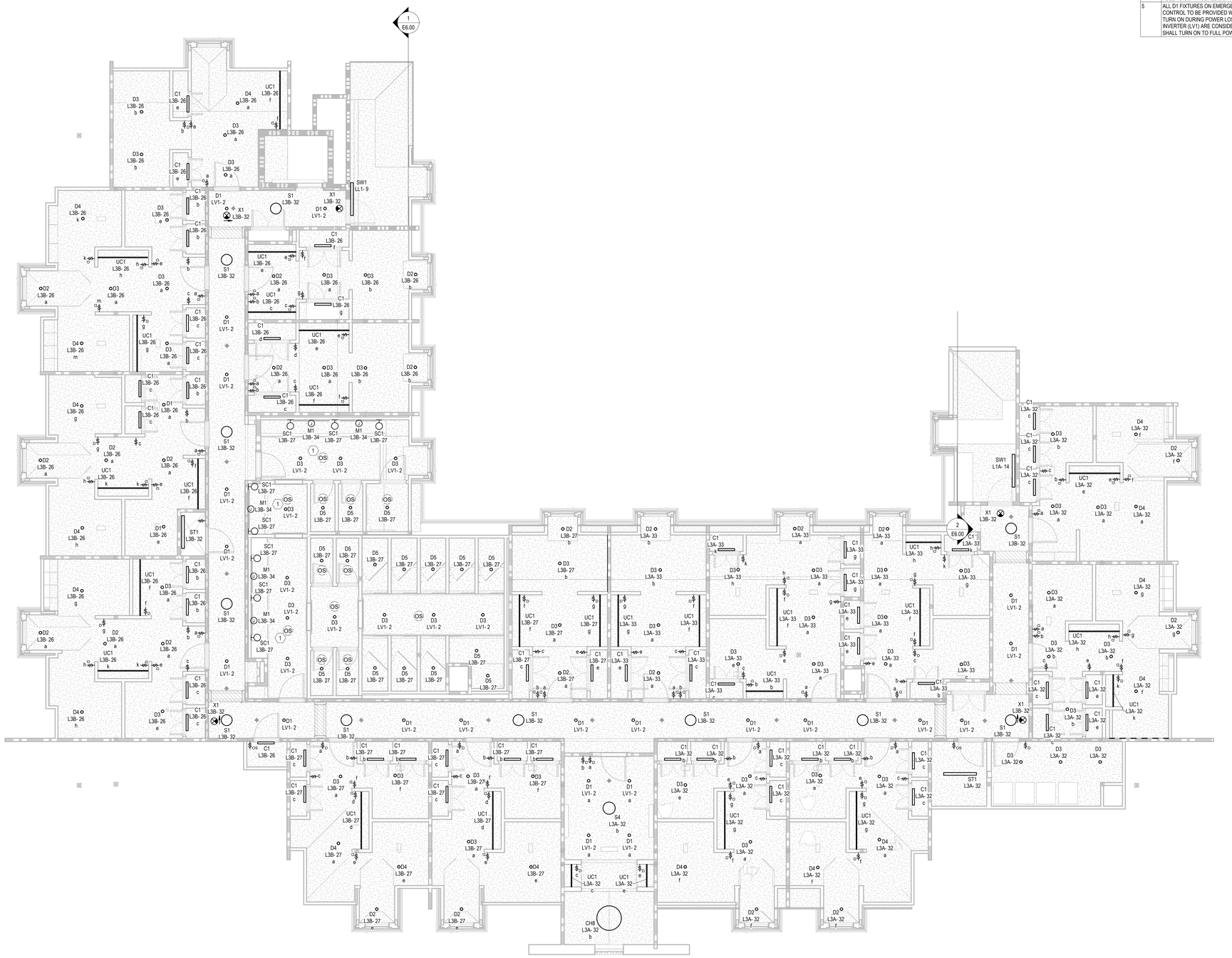

1 LIGHTING PLAN - THIRD FLOOR

3/16" = 1'-0"

KEYNOTES:

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LIGHTING PLAN NOTES

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LIGHTING PLAN - THIRD FLOOR

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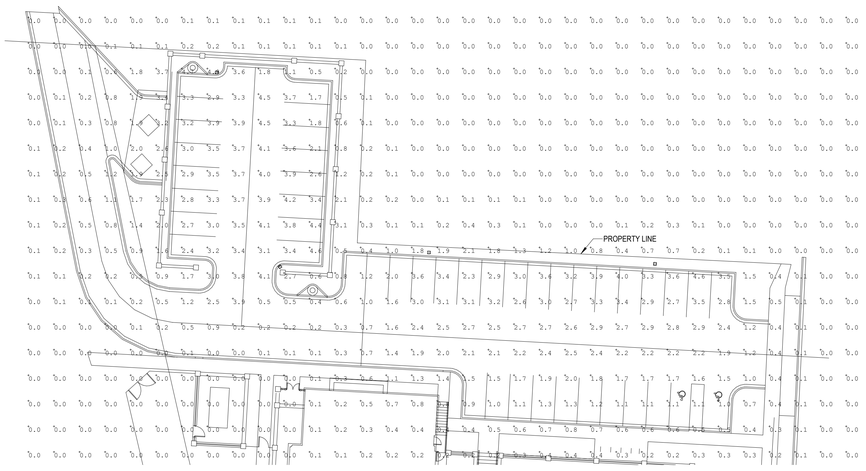
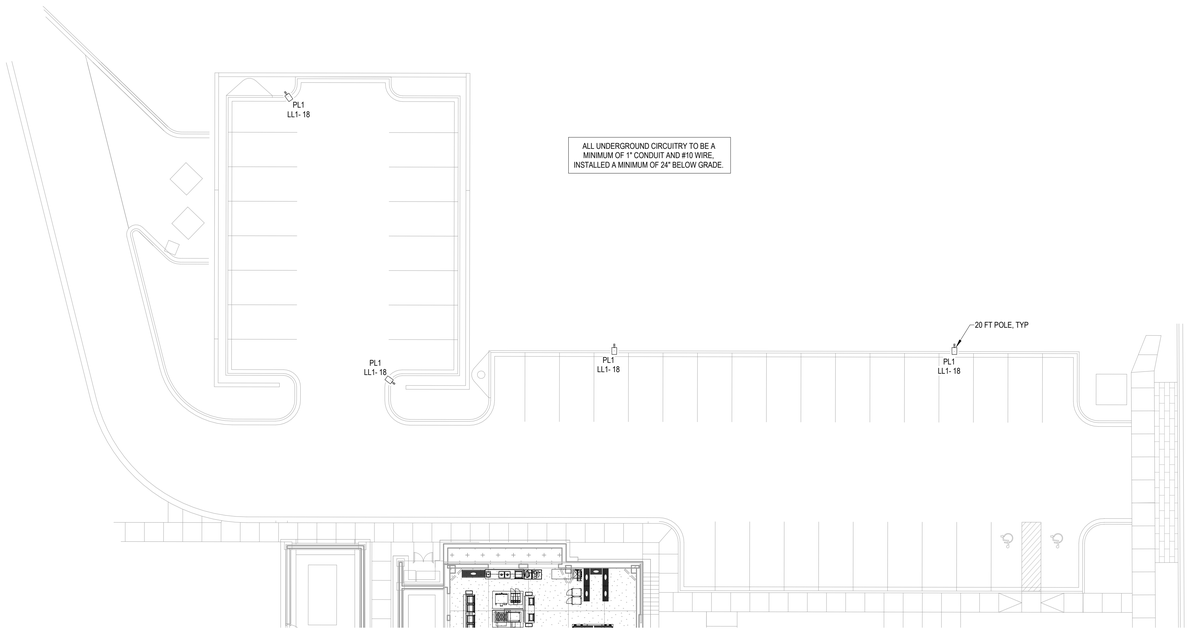


2 PARKING PHOTOMETRICS

N.T.S.



1 PARKING LIGHTING PLAN

1/16" = 1'-0"

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PARKING LIGHTING PLAN

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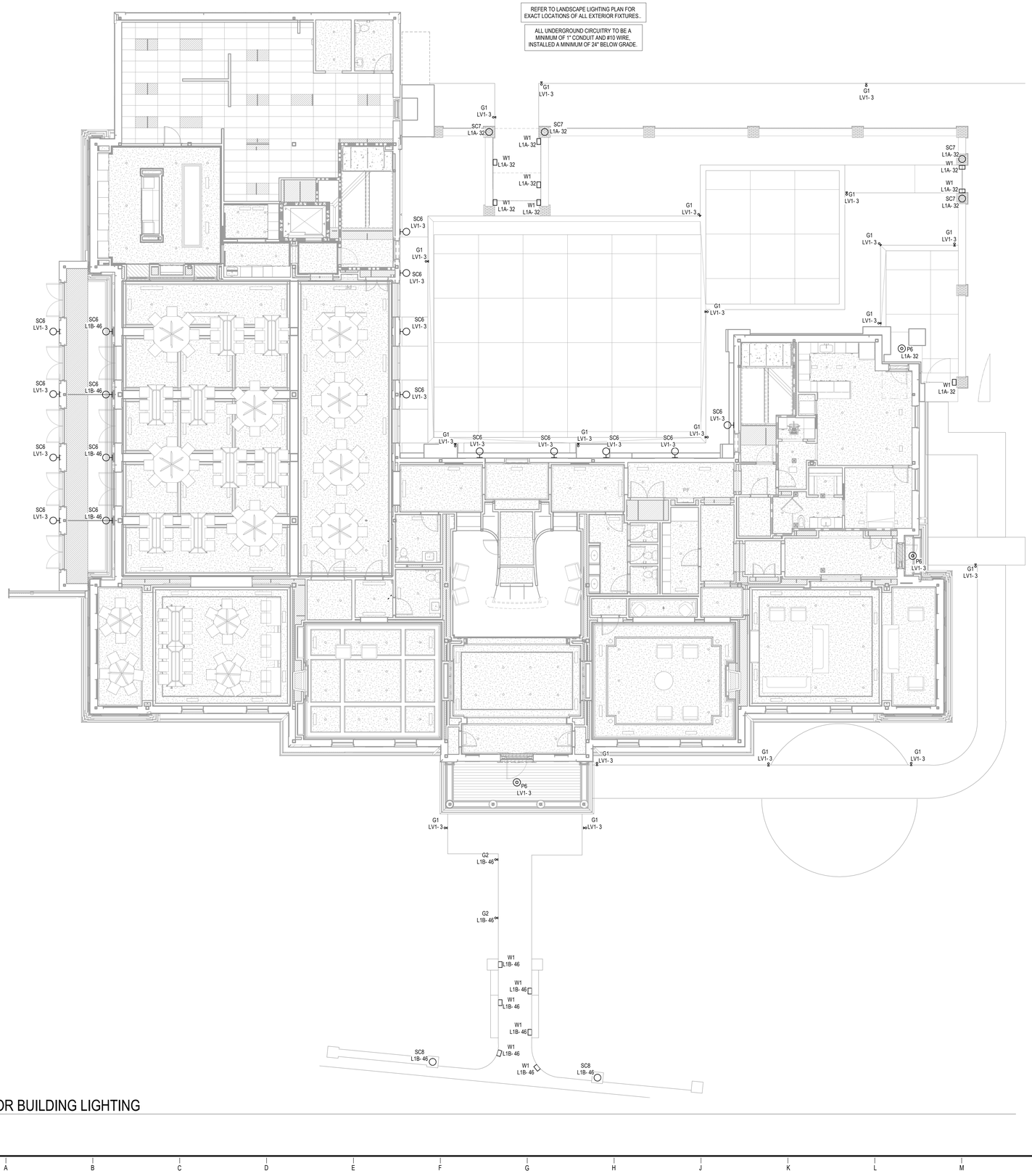
REFER TO LANDSCAPE LIGHTING PLAN FOR EXACT LOCATIONS OF ALL EXTERIOR FIXTURES..

ALL UNDERGROUND CIRCUITRY TO BE A MINIMUM OF 1" CONDUIT AND #10 WIRE. INSTALLED A MINIMUM OF 24" BELOW GRADE.



1 EXTERIOR BUILDING LIGHTING
1/8" = 1'-0"

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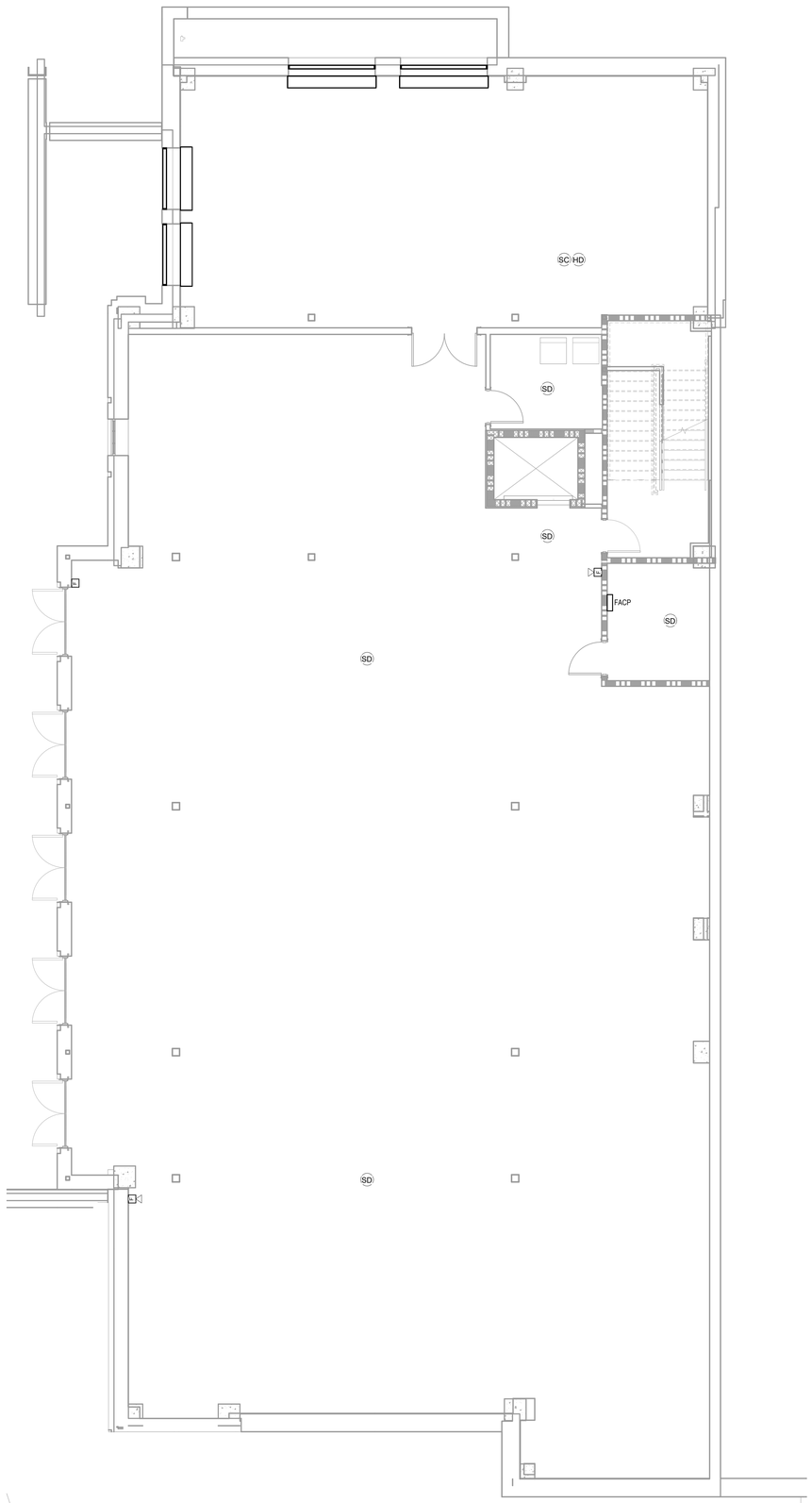


1 FIRE ALARM PLAN - LOWER LEVEL
3/16" = 1'-0"

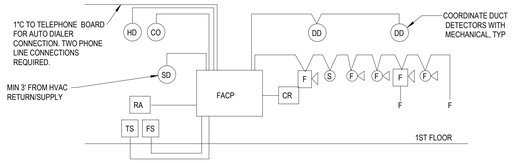
FIRE ALARM SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
F	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
F	ADA COMPLIANT FIRE ALARM SPEAKER WITH STROBE LIGHT, UNLESS NOTED OTHERWISE.
SD	CEILING MOUNTED SMOKE DETECTOR
SC	CEILING MOUNTED SMOKE DETECTOR/CARBON MONOXIDE COMBINATION UNIT
DD	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR, CUTTING OF DUCT, INSTALLATION OF DETECTOR, AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
HD	CEILING MOUNTED HEAT DETECTOR
FS	SPRINKLER SYSTEM FLOW SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
SD	SMOKE DAMPER. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
DH	MAGNETIC DOOR HOLDER, PROVIDED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A SMOKE DETECTOR WITHIN 5 FT OF BOTH SIDES OF DOORS TO LOCALLY ACTIVATE DOOR UPON SMOKE SIGNAL.
RA	FIRE ALARM REMOTE GRAPHIC ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR.
CO	CARBON MONOXIDE DETECTOR
S	ADA COMPLIANT FIRE ALARM STROBE LIGHT, UNLESS NOTED OTHERWISE.

FIRE ALARM PLAN NOTES

1	ALL FIRE ALARM CABLING TO BE INSTALLED IN CONDUIT THAT IS MARKED AS FIRE ALARM CONDUIT PER NFPA 72 REQUIREMENTS.
2	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
3	ALL SMOKE DETECTORS IN BEDROOMS SHALL BE A COMBINATION SMOKE AND CARBON MONOXIDE DETECTION TYPE DEVICE.
4	DEVICE AND EQUIPMENT LOCATIONS AND AMOUNTS SHOWN IN PLANS ARE A PERFORMANCE TYPE DESIGN. THE FINAL FIRE ALARMS DRAWINGS AND CALCULATIONS SHALL BE A DEFERRED SUBMITTAL PERFORMED BY THE FIRE ALARM CONTRACTOR/ENGINEER. FIRE ALARM DESIGN TO FOLLOW ALL NFPA 72 REQUIREMENTS AND COORDINATION WITH FIRE MARSHAL. THE FIRE MARSHAL HAS FINAL DECISION FOR LOCATIONS AND REQUIREMENTS OF ALL DEVICES AND EQUIPMENT.
5	COORDINATE WITH MECHANICAL PLANS FOR ALL DUCT INITIATING DEVICES, DAMPER MONITORING DEVICES, AND SHUT-OFF PROCEDURES DURING ALARM MODE.
6	INSTALL ALL DEVICES IN ACCORDANCE WITH NFPA 72 REQUIREMENTS FOR DEVICES HEIGHTS, CLEARANCES, AND SPACING.
7	COORDINATE FINAL MOUNTING LOCATIONS OF ALL FIRE ALARM EQUIPMENT WITH ARCHITECT PRIOR TO ROUGH-IN.



NOTES:
1. FACP SHALL HAVE A MINIMUM 24 HR BATTERY BACKUP.
2. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
3. FACP SHALL BE FULLY ANALOG ADDRESSABLE.
4. ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO SINGLE ZONE EXCEEDING 15,000 SQUARE FEET PER FLOOR.
5. FIRE ALARM ENGINEER TO PROVIDE DEFERRED SUBMITTAL CONTAINING EXACT QUANTITY AND DEVICE LOCATIONS. FIRE ALARM DEVICES ON THIS SET OF PLANS IS FOR REFERENCE ONLY.
6. PROVIDE MULTI-TEMPORAL SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION.
7. THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED.
8. COORDINATE LOCATIONS OF ALL SPRINKLER SYSTEM DEVICES, I.E. FLOW/TAMPER/PRESSURE SWITCHES, BELLS, ETC. WITH THE SPRINKLER CONTRACTOR.
9. THE EVACUATION TONE IS REQUIRED TO BE THREE BEAT TEMPORAL PATTERN.
10. ALL STROBES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED.
11. THE CIRCUIT FEEDING THE FIRE ALARM PANEL IS DEDICATED FOR THE FIRE ALARM ONLY. FACP BREAKER SHALL BE MARKED IN RED.
12. FOR ALL DEVICES, PROVIDE 3/4" CONDUIT BACK TO FACP. NO PLENUM RATED CABLE SHALL BE ALLOWED UNLESS ALLOWED BY FIRE MARSHAL.
13. CONTRACTOR SHALL INCLUDE IN THE BID CONTRACT FOR AN ADDITIONAL (5) ANNUNCIATION DEVICES, (2) PULL STATIONS, (2) SMOKE DETECTORS, (2) HEAT DETECTORS, AND RELOCATION OF (2) PULL STATIONS. THESE DISTANCES SHALL BE PRICED BASED ON 100 FT (EACH) FROM THE FACP. DEVICES SHALL NOT BE PURCHASED OR INSTALLED UNTIL DIRECTED BY OWNER OR ENGINEER.
14. FIRE ALARM INSTALLER SHALL BE NICET CERTIFIED.

2 TYPICAL FIRE ALARM RISER
NTS

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FIRE ALARM PLAN - LOWER LEVEL

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FIRE ALARM PLAN NOTES

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1 FIRE ALARM PLAN - GROUND FLOOR
3/16" = 1'-0"

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FIRE ALARM PLAN - GROUND FLOOR

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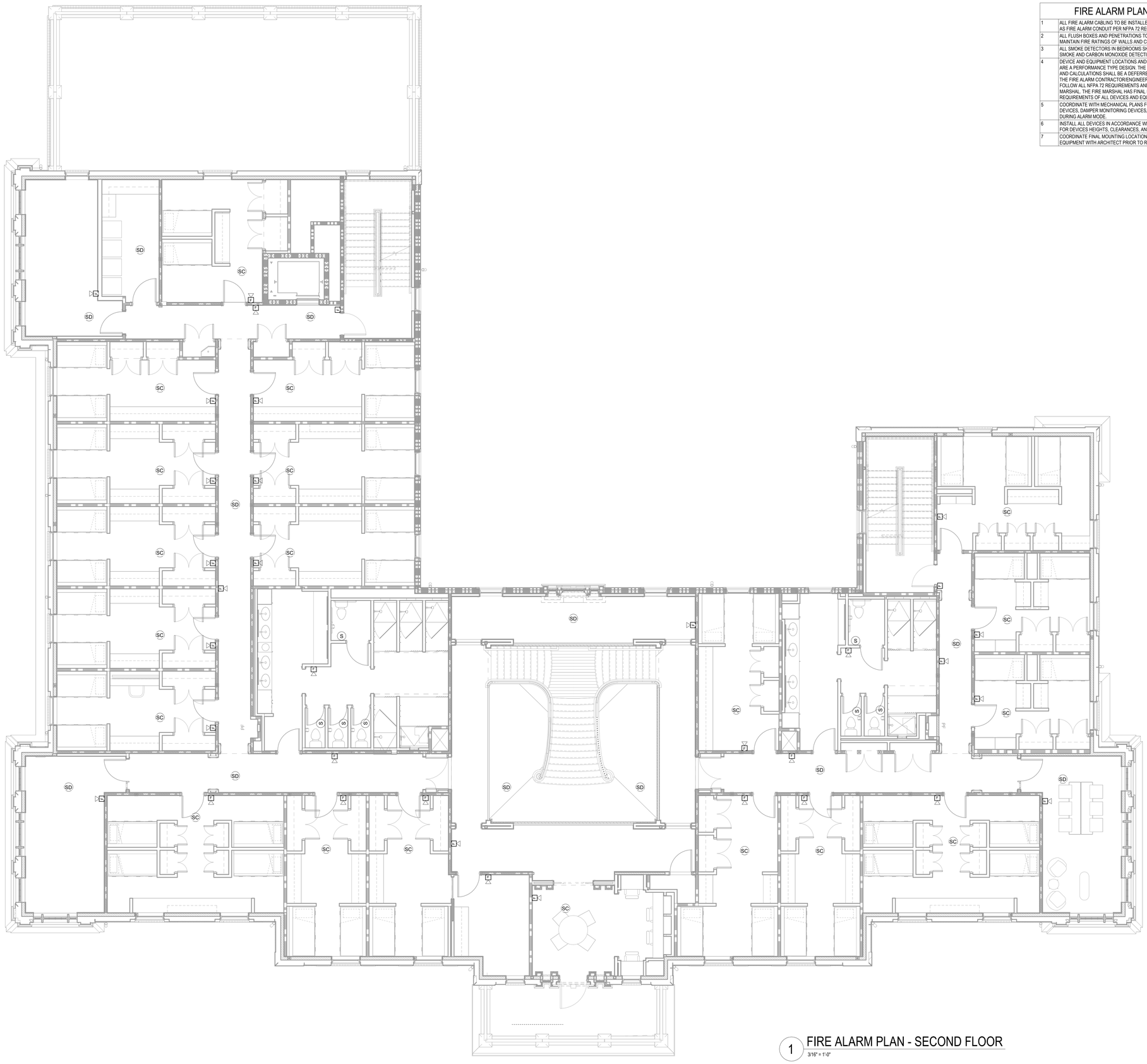

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3/16" = 1'-0"

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FIRE ALARM PLAN - SECOND FLOOR

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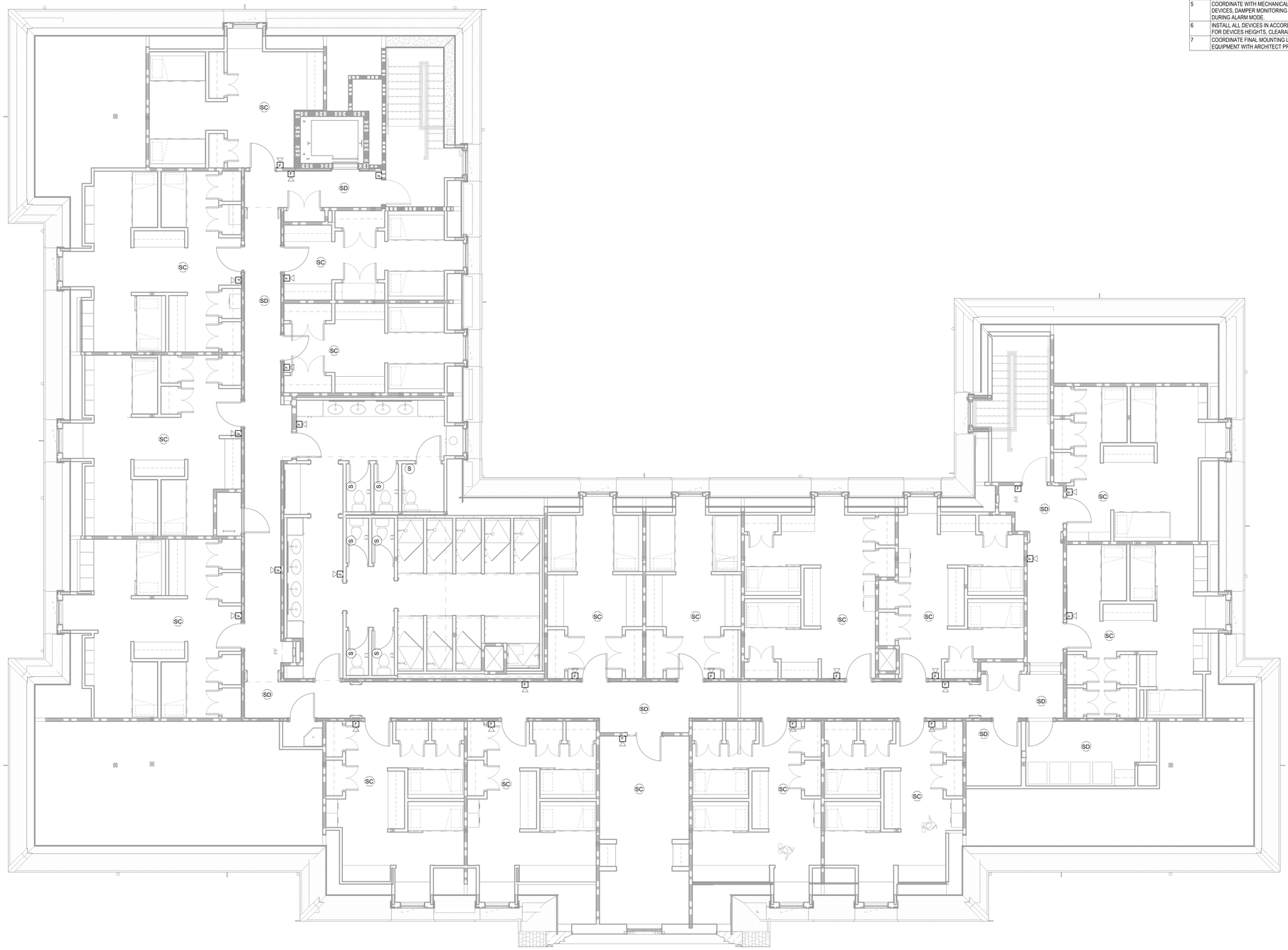

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1 FIRE ALARM PLAN - THIRD FLOOR
3/16" = 1'-0"

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FIRE ALARM PLAN - THIRD FLOOR

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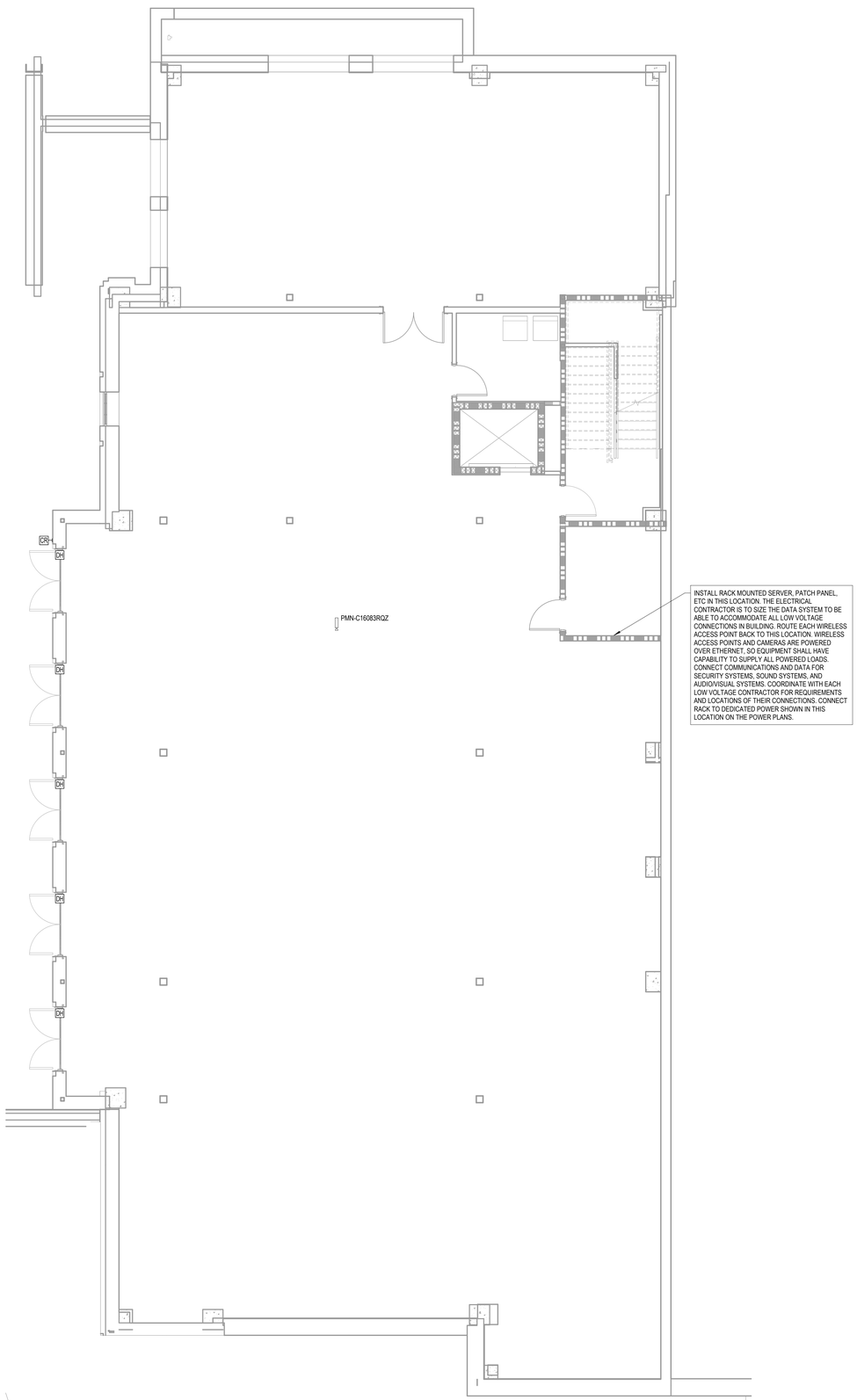

INSTALL RACK MOUNTED SERVER, PATCH PANEL, ETC IN THIS LOCATION. THE ELECTRICAL CONTRACTOR IS TO SIZE THE DATA SYSTEM TO BE ABLE TO ACCOMMODATE ALL LOW VOLTAGE CONNECTIONS IN BUILDING. ROUTE EACH WIRELESS ACCESS POINT BACK TO THIS LOCATION. WIRELESS ACCESS POINTS AND CAMERAS ARE POWERED OVER ETHERNET, SO EQUIPMENT SHALL HAVE CAPABILITY TO SUPPLY ALL POWERED LOADS. CONNECT COMMUNICATIONS AND DATA FOR SECURITY SYSTEMS, SOUND SYSTEMS, AND AUDIO/VISUAL SYSTEMS. COORDINATE WITH EACH LOW VOLTAGE CONTRACTOR FOR REQUIREMENTS AND LOCATIONS OF THEIR CONNECTIONS. CONNECT RACK TO DEDICATED POWER SHOWN IN THIS LOCATION ON THE POWER PLANS.

1 DATA/SECURITY PLAN - LOWER LEVEL

3/16" = 1'-0"

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
CR	CARD READER
DH	DOOR HOLD ALARM
KP	KEYPAD
	CAMERA
WAP	WIRELESS ACCESS POINT (CEILING MOUNT)
WWAP	WIRELESS ACCESS POINT (WALL MOUNT)
S	SPEAKER

ELECTRICAL CONTRACTOR RESPONSIBILITY FOR LOW VOLTAGE SYSTEMS:

- ELECTRICAL CONTRACTOR TO PROVIDE CAT 6A CABLING, BOXES AND PATHWAYS FOR ALL WIRELESS ACCESS POINTS. TEST ALL CONNECTIONS FROM SERVER TO ETHERNET JACK ONCE COMPLETE. THE WIRELESS ACCESS POINTS WILL BE INSTALLED AND PLUGGED IN BY OTHERS.
- ELECTRICAL CONTRACTOR TO PROVIDE RACEWAYS AND ROUTES FOR SECURITY EQUIPMENT, SUCH AS CAMERAS. PROVIDE CONDUIT WITH PULL-STRING AND BUSHINGS WHEN ROUTING VERTICALLY DOWN WALLS. CAMERAS. SECURITY CONTRACTOR TO PROVIDE AND INSTALL CABLING AND SECURITY DEVICES.
- AUDIO EQUIPMENT TO BE FURNISHED AND INSTALLED BY AUDIO CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE RACEWAYS AND ROUTES FOR AUDIO DEVICES AND EQUIPMENT ON PLANS. PROVIDE CONDUIT WITH PULL-STRING AND BUSHINGS WHEN ROUTING VERTICALLY DOWN WALLS. SPEAKER WIRE AND SPEAKERS TO BE INSTALLED BY AUDIO CONTRACTOR.

THE SPEAKERS AND THE EQUIPMENT TO CONTROL AND POWER THE SPEAKERS IS TO BE DESIGNED AT A LATER DATE BY THE AUDIO CONTRACTOR. ALL SPEAKER LOCATIONS SHOWN AND ANY AUDIO CONTROL EQUIPMENT ARE FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE. COORDINATE WITH AUDIO CONTRACTOR TO PROVIDE POWER TO ROOM CONTROLLERS AS NECESSARY, AND PROVIDE CONDUIT FROM AUDIO CONTROLLER CLOSET BACK TO MAIN ELECTRICAL ROOM AS SHOWN IN PLANS.

DATA/SECURITY PLAN NOTES

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DATA/SECURITY SYMBOLS LEGEND

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SYMBOL	DESCRIPTION
CR	CARD READER
DH	DOOR HOLD ALARM
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1 DATA/SECURITY PLAN - GROUND FLOOR
3/16" = 1'-0"

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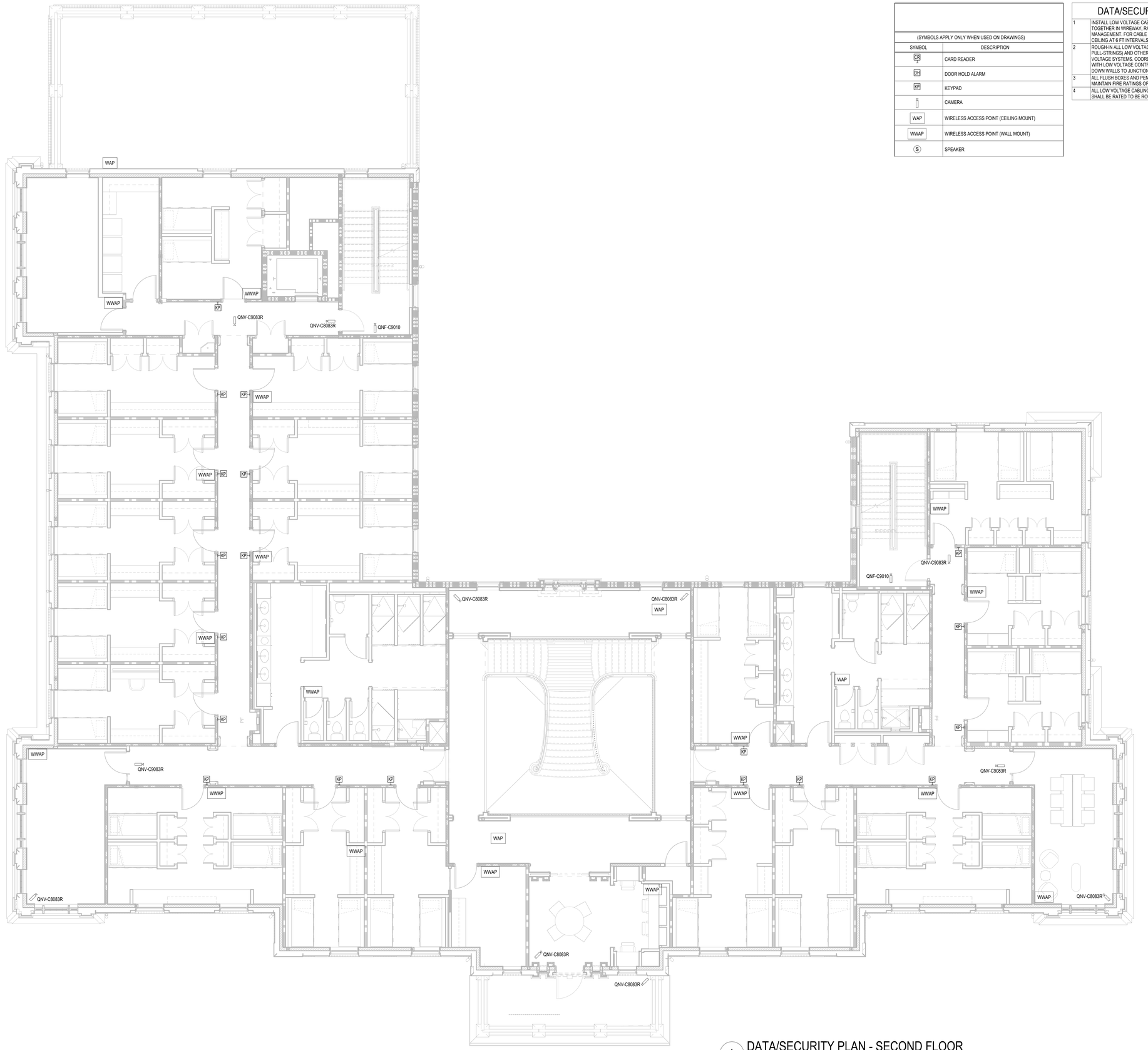

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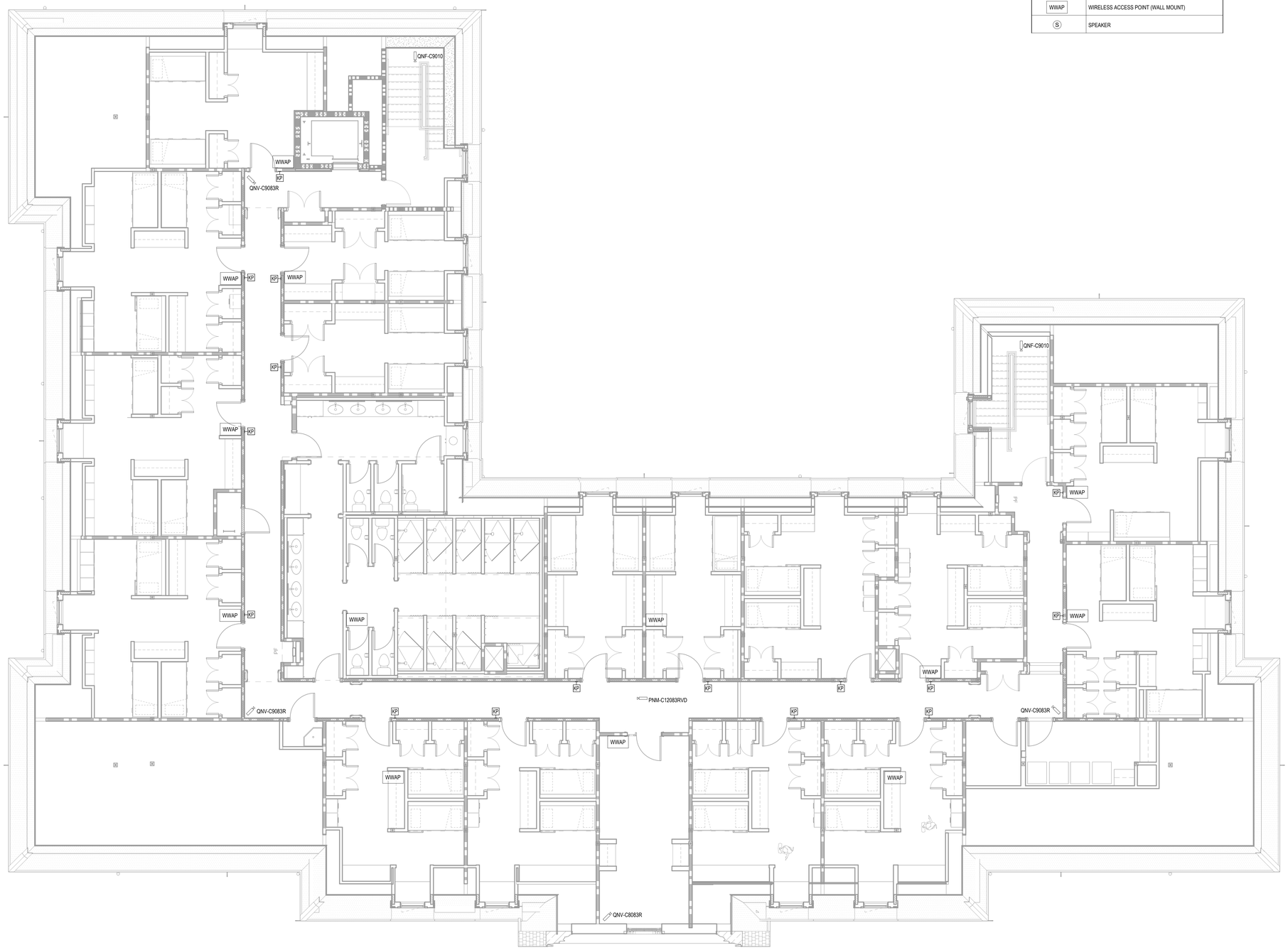

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)	
SYMBOL	DESCRIPTION
CR	CARD READER
DH	DOOR HOLD ALARM
KP	KEYPAD
	CAMERA
WAP	WIRELESS ACCESS POINT (CEILING MOUNT)
WWAP	WIRELESS ACCESS POINT (WALL MOUNT)
S	SPEAKER

DATA/SECURITY PLAN NOTES

1	INSTALL LOW VOLTAGE CABLING IN A NEAT MANNER, GROUPING CABLES TOGETHER IN WIREWAY, RACEWAY, OR APPROVED LOW VOLTAGE CABLE MANAGEMENT. FOR CABLE HOOKS, INSTALL CABLE HOOKS ABOVE CEILING AT 6 FT INTERVALS.
2	ROUGH-IN ALL LOW VOLTAGE BOXES, CONDUITS (WITH BUSHINGS AND PULL-STRINGS) AND OTHER WIRE WAYS AS REQUIRED FOR LOW VOLTAGE SYSTEMS. COORDINATE REQUIRED WORK AND LOCATIONS WITH LOW VOLTAGE CONTRACTORS. VERTICAL LOW VOLTAGE DROPS DOWN WALLS TO JUNCTION BOX TO BE IN CONDUIT.
3	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
4	ALL LOW VOLTAGE CABLING TO BE PLENUM RATED. SPEAKER WIRE SHALL BE RATED TO BE ROUTED IN WALLS/CEILING.

1 DATA/SECURITY PLAN - THIRD FLOOR
3/16" = 1'-0"

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CERTIFICATE OF AUTHORIZATION — PRIGM ENGINEERING, PLLC — No. 3588 — ARKANSAS

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14986 — JOHN D. LONGINOTTI

CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title DATA/SECURITY PLAN - THIRD FLOOR

Sheet No. **E4.07**

Project Name
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KITCHEN EQUIPMENT SCHEDULE

TAG	DESCRIPTION	PANEL - CIRCUIT
E20	KITCHEN HOOD	L1B-68
E21	COMBI OVEN	L1B-4
E23	REFRIGERATED EQUIP STAND	L1B-8
E30	HEATED HOLDING CABINET	L1B-14
E30	HEATED HOLDING CABINET	L1B-5
E34	REACH IN REFRIGERATOR	L1B-9
E35	MIXER	L1B-16
E37	SLICER	L1B-11
E42	UNDERCOUNTER REFRIGERATOR	L1B-30
E42	UNDERCOUNTER REFRIGERATOR	L1B-30
E49	REACH IN U/C FREEZER	L1B-12
E49	REACH IN U/C FREEZER	L1B-12
E54	UNDERCOUNTER REFRIGERATOR	L1B-35
E54	UNDERCOUNTER REFRIGERATOR	L1B-35
E55	ICE MAKER	L1B-63
E56	SODA DISPENSER	L1B-67
E57	COFFEE MACHINE	L1B-66
E58	JUICE DISPENSER	L1B-65
E60	DROP IN HOT FOOD WELL	L1B-51,53
E61	DROP IN COLD FOOD WELL	L1B-50
E62	SNEEZE GUARD	L1B-52
E66	DISHWASHER	L1B-24,26,28
E67	DISPOSAL	L1B-23,25
E78	MICROWAVE	L1B-32
E80	POP UP TOASTER	L1B-27
E80	POP-UP TOASTER	L1B-34
E81	AIR FRYER	L1B-21
E81	AIR FRYER	L1B-33
E85A	FREEZER/COOLER DOORS/LIGHTS	L1B-60
E85A	FREEZER/COOLER DOORS/LIGHTS	L1B-60
E85B	COOLER EVAP	L1B-61
E85C	COOLER CONDENSING UNIT	L1B-71,73
E85D	FREEZER EVAP	L1B-62,64

KITCHEN EQUIPMENT NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
2	PROVIDE AFCI-TYPE BREAKER OR RECEPTACLES FOR ALL 120V, 15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ALL LOCATIONS REQUIRED PER NEC 210.12.
3	ALL 120V RECEPTACLES IN BEDROOMS SHALL HAVE (2) USB-C TYPE PORTS INTEGRAL TO RECEPTACLE.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOORBOXES. PROVIDE FLOORBOX WITH QUAD RECEPTACLE.
5	FOR RECEPTACLES AND SWITCHES INSTALLED ABOVE COUNTERS, VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. VERIFY THAT RECEPTACLES AND SWITCHES ARE IN THE BACKSPLASH OR COMPLETELY ABOVE IT. DO NOT INSTALL SO THAT IT IS PARTIALLY IN AND ABOVE THE BACKSPLASH.
6	VERIFY ALL SPECIFICATIONS AND ELECTRICAL REQUIREMENTS FOR APPLIANCES ORDERED BY OWNER. CONNECT PER MANUFACTURER'S RECOMMENDATIONS.
7	LOCATE DEVICES IN COMMON BACK TO BACK WALLS IN SEPARATE STUD CAVITIES WHERE POSSIBLE TO PREVENT SOUND TRANSMISSION THROUGH DEVICES BOXES BETWEEN ROOMS. USE OF AN APPROVED SOUND ELEMINATION DEVICE SHALL BE USED WEHRE BOXES ARE LOCATED IN A COMMON STUD CAVITY.
8	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
9	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.

POWER PLAN NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
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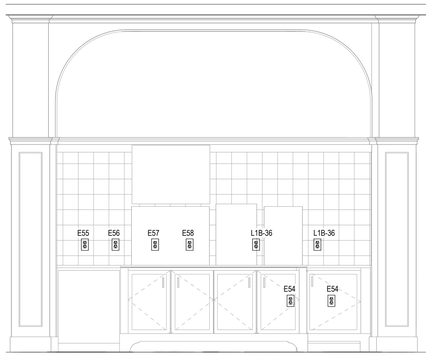
LIGHTING PLAN NOTES

1	REFERENCE ARCHITECTURAL RCPs FOR EXACT LOCATION & MOUNTING HEIGHTS LIGHT FIXTURES TYPICAL.
2	COMBINE ADJACENT WALL SWITCHES INTO COMMON GANGED BOX AND WALL PLATE.
3	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
4	ROOMS THAT HAVE TWO SEPARATE LIGHTING CIRCUITS, SUCH AS RESTROOMS, SHALL HAVE A DUAL CIRCUIT OCCUPANCY SENSOR TO BE ABLE TO CONTROL ALL LIGHTS FROM ONE OCCUPANCY SENSOR.
5	ALL D1 FIXTURES ON EMERGENCY CIRCUIT AND HAVE LOCAL ROOM CONTROL TO BE PROVIDED WITH UL924 DEVICE TO ENSURE FIXTURES TURN ON DURING POWER LOSS. ALL FIXTURES FED FROM LIGHTING INVERTER (LV1) ARE CONSIDERED TO BE EMERGENCY FIXTURES, AND SHALL TURN ON TO FULL POWER IN THE EVENT OF POWER LOSS.

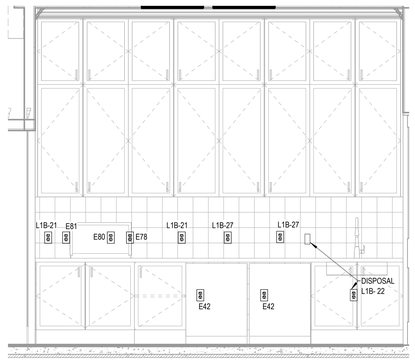
KEYNOTES:

1 JUNCTION BOX FOR CONNECTION TO FREEZER/COOLER DOORS AND LIGHTS. COORDINATE EXACT LOCATION AND CONNECTIONS WITH INSTALLER.

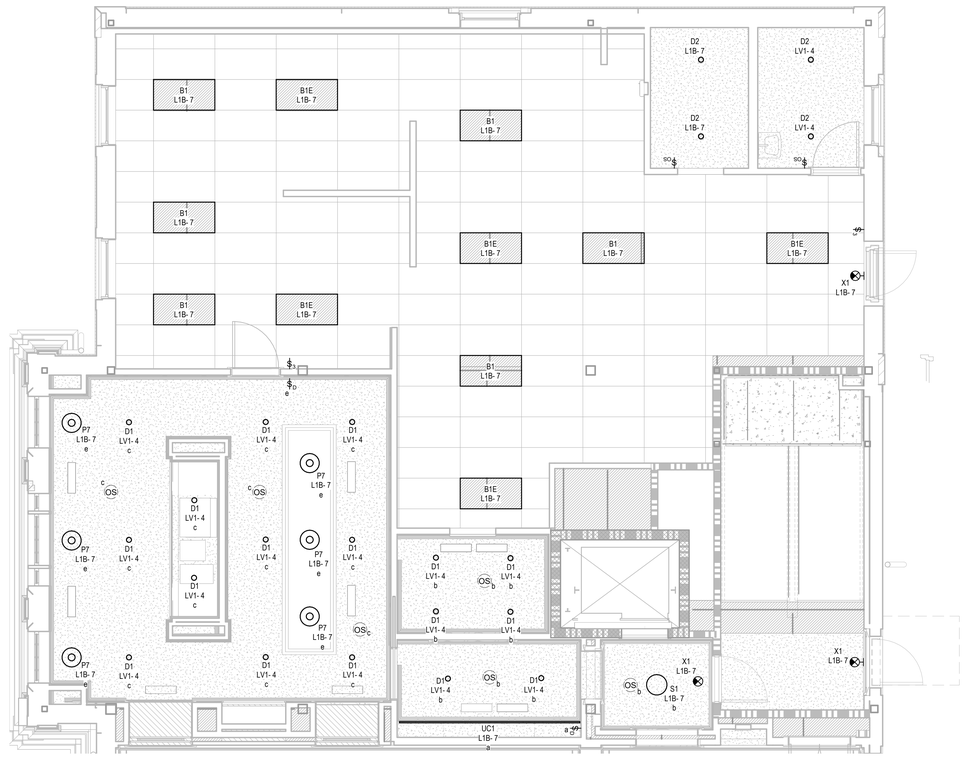
2 JUNCTION BOX FOR CONNECTION TO COILING COUNTER DOOR. COORDINATE EXACT LOCATION AND CONNECTIONS WITH INSTALLER.



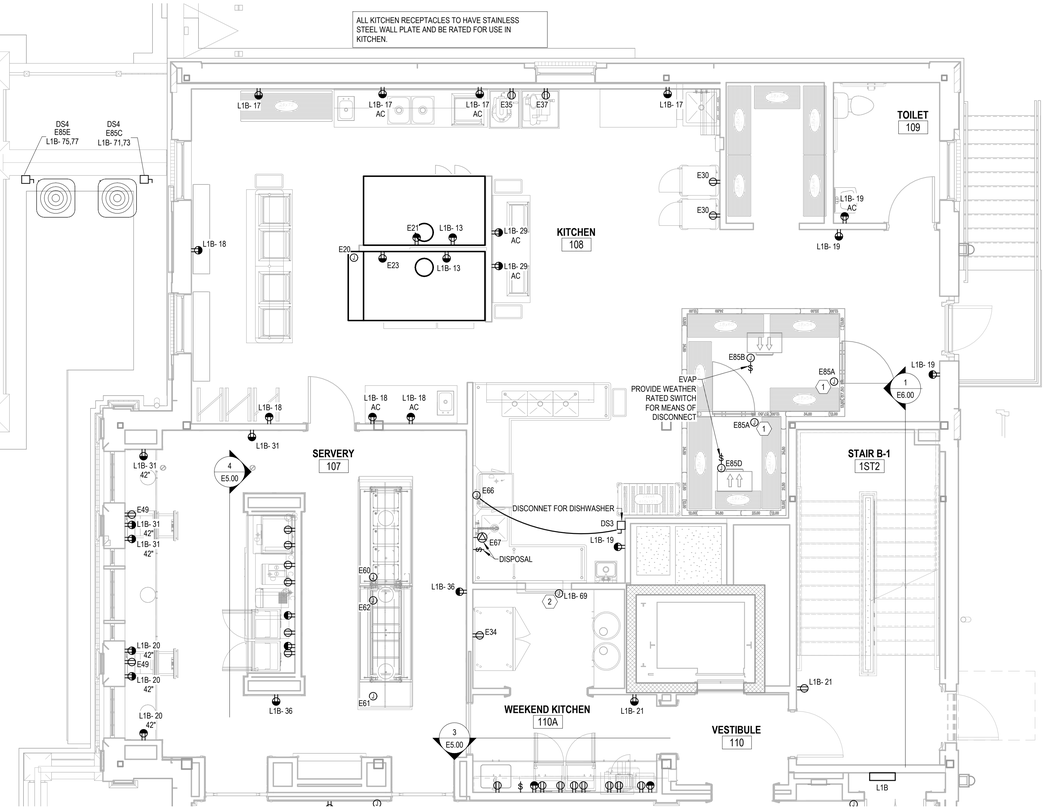
4 SERVERY ELEVATION
1/2" = 1'-0"



3 WEEKEND KITCHEN ELEVATION
1/2" = 1'-0"



2 ENLARGED LIGHTING PLAN - SERVERY AND KITCHEN
1/4" = 1'-0"



1 ENLARGED POWER PLAN - SERVERY AND KITCHEN
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title ENLARGED ELECTRICAL PLANS

Sheet No. **E5.00**

KEYNOTES:

1. JUNCTION BOX FOR CONNECTION TO BOTTLE FILLER. COORDINATE CONNECTIONS AND EXACT LOCATION WITH PLUMBING CONTRACTOR.
2. JUNCTION BOX FOR CONNECTION TO PROJECTOR SCREEN. COORDINATE EXACT LOCATION AND CONNECTIONS WITH AV INSTALLER.
3. DUPLEX FOR CONNECTION TO AV CONTROL PANEL. COORDINATE EXACT LOCATION AND CONNECTION WITH AV INSTALLER PRIOR TO ROUGH-IN.
4. PROVIDE (2) TWO INCH CONDUITS WITH PULL STRINGS ROUTED TO THE MAIN ELECTRICAL ROOM ON THE LOWER LEVEL.
5. JUNCTION BOX FOR CONNECTION TO PROJECTOR. COORDINATE EXACT LOCATION AND CONNECTIONS WITH AV INSTALLER.

LIGHTING PLAN NOTES

1	REFERENCE ARCHITECTURAL RCPs FOR EXACT LOCATION & MOUNTING HEIGHTS LIGHT FIXTURES TYPICAL.
2	COMBINE ADJACENT WALL SWITCHES INTO COMMON GANGED BOX AND WALL PLATE.
3	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
4	ROOMS THAT HAVE TWO SEPARATE LIGHTING CIRCUITS, SUCH AS RESTROOMS, SHALL HAVE A DUAL CIRCUIT OCCUPANCY SENSOR TO BE ABLE TO CONTROL ALL LIGHTS FROM ONE OCCUPANCY SENSOR.
5	ALL D1 FIXTURES ON EMERGENCY CIRCUIT AND HAVE LOCAL ROOM CONTROL TO BE PROVIDED WITH UL924 DEVICE TO ENSURE FIXTURES TURN ON DURING POWER LOSS. ALL FIXTURES FED FROM LIGHTING INVERTER (LV1) ARE CONSIDERED TO BE EMERGENCY FIXTURES, AND SHALL TURN ON TO FULL POWER IN THE EVENT OF POWER LOSS.

POWER PLAN NOTES

1	ALL RECEPTACLES IN BEDROOMS, RESTROOMS, COMMON AREAS, CORRIDORS, AND GENERAL LIVING SPACES SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
2	PROVIDE AFCI-TYPE BREAKER OR RECEPTACLES FOR ALL 120V, 15A AND 20A BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ALL LOCATIONS REQUIRED PER NEC 210.12.
3	ALL 120V RECEPTACLES IN BEDROOMS SHALL HAVE (2) USB-C TYPE PORTS INTEGRAL TO RECEPTACLE.
4	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOORBOXES. PROVIDE FLOORBOX WITH QUAD RECEPTACLE.
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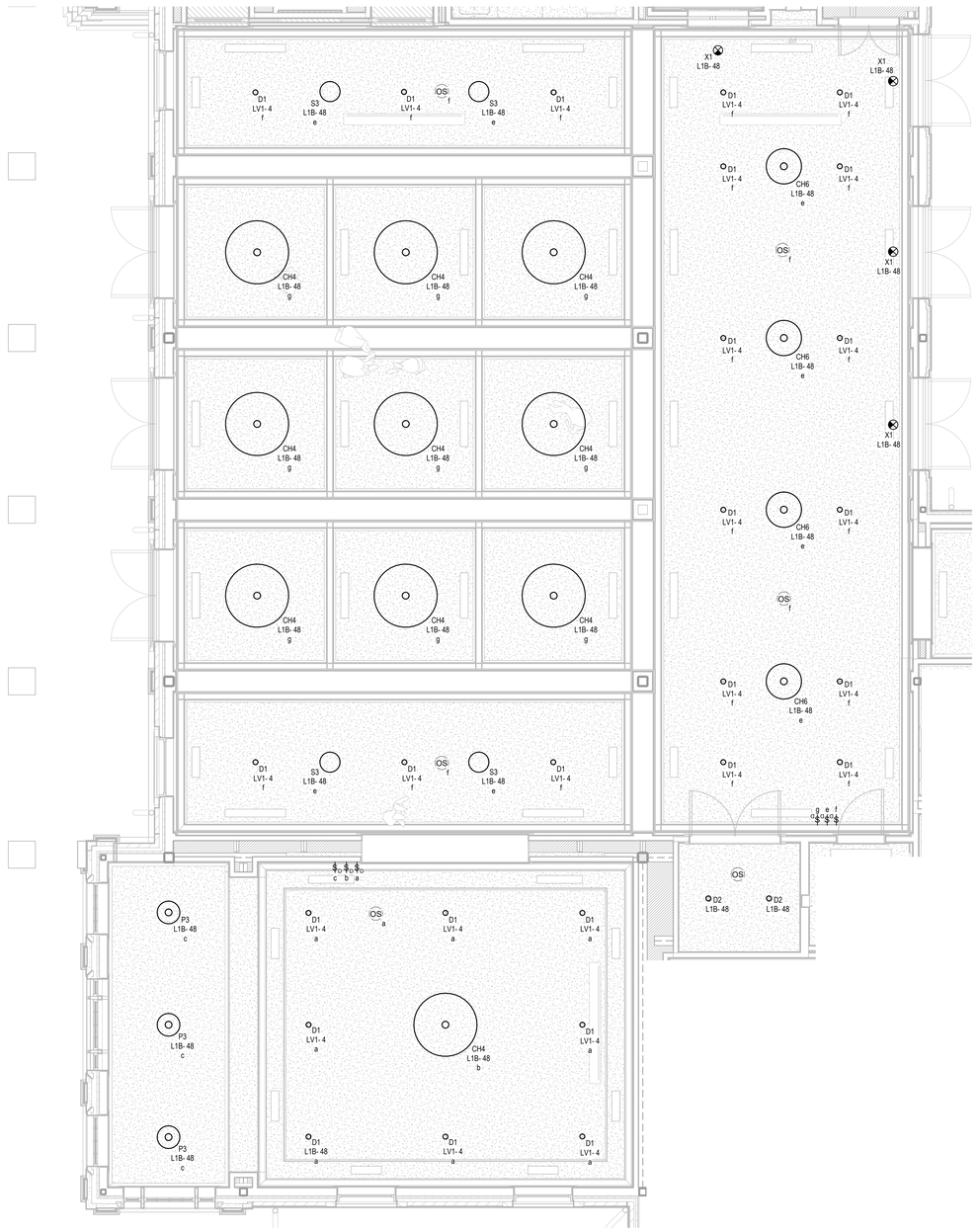
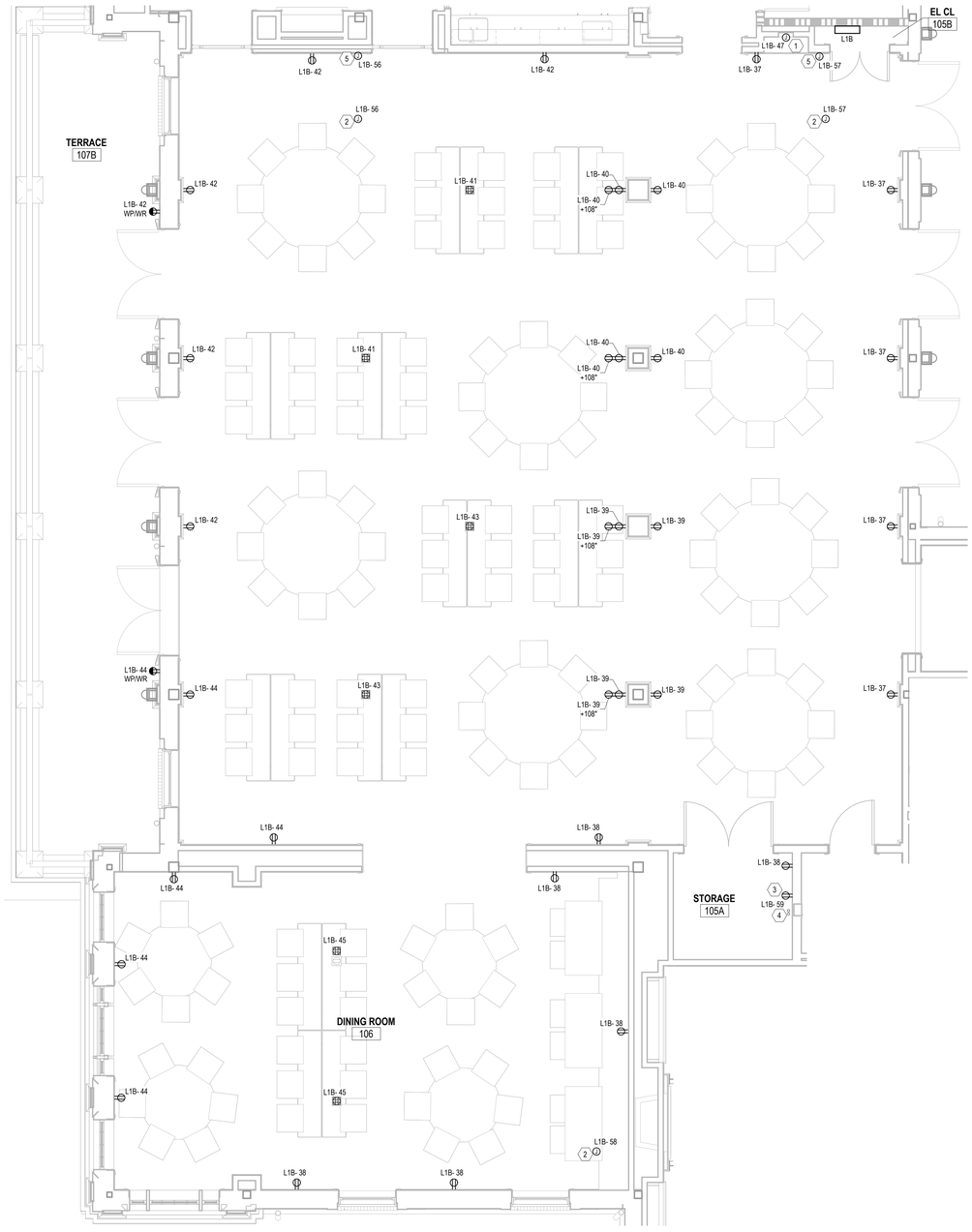
7	LOCATE DEVICES IN COMMON BACK TO BACK WALLS IN SEPARATE STUD CAVITIES WHERE POSSIBLE TO PREVENT SOUND TRANSMISSION THROUGH DEVICES BOXES BETWEEN ROOMS. USE OF AN APPROVED SOUND ELEMINATION DEVICE SHALL BE USED WEHRE BOXES ARE LOCATED IN A COMMON STUD CAVITY.
8	ROMEX CABLE IS NOT PERMITTED FOR THIS PROJECT. MC CABLE AND CONDUIT ARE TO BE USED. FINAL CONNECTIONS TO PANELBOARDS AND ALL PANELBOARD FEEDERS ARE TO BE SINGLE-CONDUCTOR WIRING INSTALLED IN CONDUIT.
9	ALL PENETRATIONS INTO FIRE RATED WALLS AND CEILINGS SHALL BE PROPERLY SEALED TO MAINTAIN THE FIRE RATING. ALL BOXES THAT ARE FLUSH IN THE WALL SHALL BE LISTED AS ACCEPTABLE TO USE FOR PURPOSES OF MAINTAINING A FIRE RATED ASSEMBLY.



2 ENLARGED LIGHTING PLAN - DINING / CHAPTER HALL
1/4" = 1'-0"



1 ENLARGED POWER PLAN - DINING / CHAPTER HALL
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Date 12.18.2025

Title ENLARGED ELECTRICAL PLANS

Sheet No. **E5.01**

KEYNOTES:

1. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF TV BOXES WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
2. INSTALL RECEPTACLE WITHIN 1 FT OF COUNTER SURFACE PER NEC 210.52(C)(3).
3. RECEPTACLE TO BE MOUNTED AT SAME HEIGHT AS DRYER.
4. JUNCTION BOX FOR CONNECTION TO RANGE HOOD. COORDINATE EXACT LOCATION AND CONNECTION WITH INSTALLER PRIOR TO ROUGH-IN.

LIGHTING PLAN NOTES

1	REFERENCE ARCHITECTURAL RCPs FOR EXACT LOCATION & MOUNTING HEIGHTS LIGHT FIXTURES TYPICAL.
2	COMBINE ADJACENT WALL SWITCHES INTO COMMON GANGED BOX AND WALL PLATE.
3	ALL FLUSH BOXES AND PENETRATIONS TO BE PROPERLY SEALED TO MAINTAIN FIRE RATINGS OF WALLS AND CEILINGS.
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POWER PLAN NOTES

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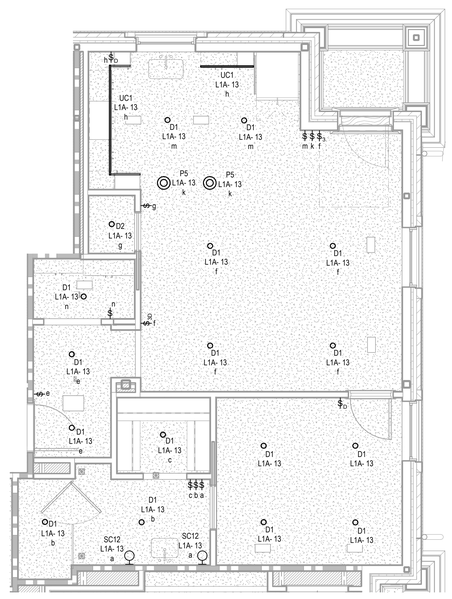
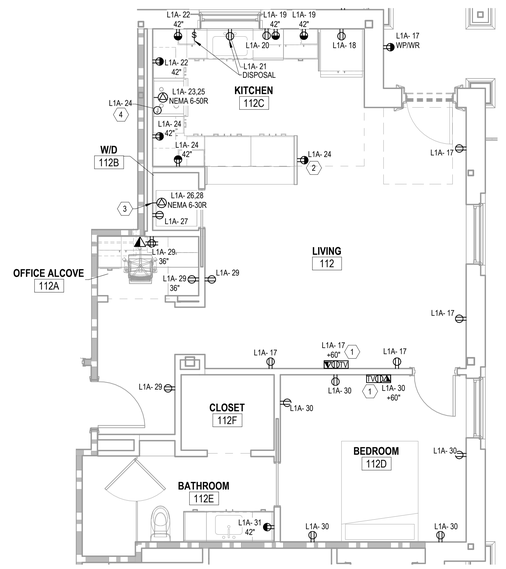


2 ENLARGED LIGHTING PLAN - SUITE
1/4" = 1'-0"



1 ENLARGED POWER PLAN - SUITE
1/4" = 1'-0"

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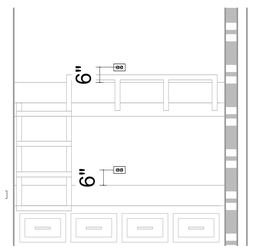
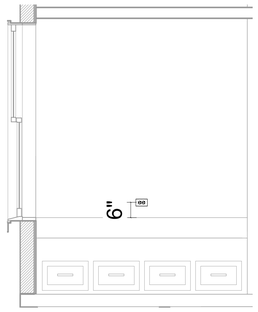
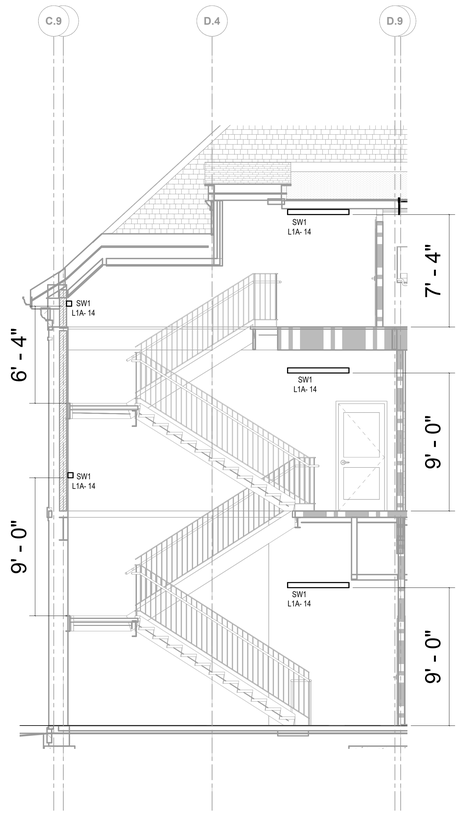


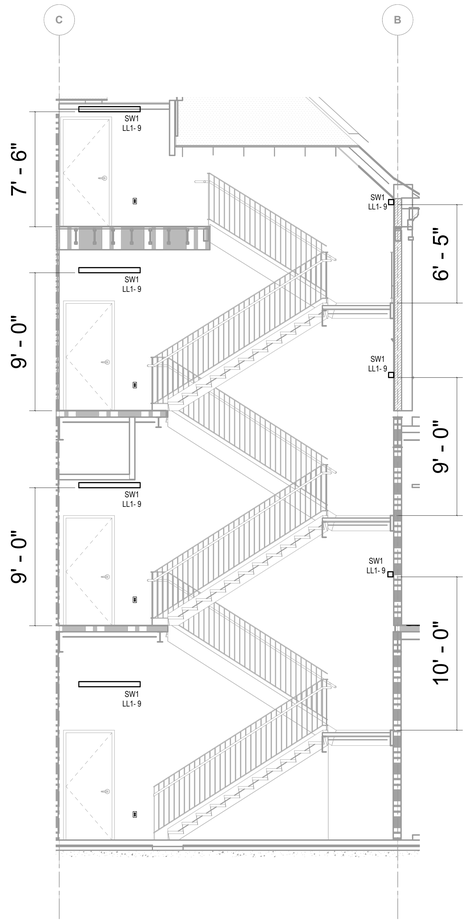
4 TYPICAL BUNK BED RECEPTACLE MOUNTING
1/2" = 1'-0"



3 TYPICAL SINGLE BED RECEPTACLE MOUNTING
1/2" = 1'-0"



2 EAST STAIR ELEVATION
1/4" = 1'-0"



1 WEST STAIR ELEVATION
1/4" = 1'-0"

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CONSTRUCTION DOCUMENTS

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Title

ELECTRICAL ELEVATIONS

Sheet No.

E6.00

PANELBOARD: LLM

NEW

LOCATION: MECH ROOM
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4

A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 600 A
REQUIREMENTS: GROUND BAR

NOTES:
SERIES RATED BREAKER FOR GFCI BREAKERS ONLY IS ALLOWED IN THIS PANEL. PROVIDE BREAKERS THAT ARE A LISTED SERIES RATED PAIR, THE SERIES RATING SHOULD BE BETWEEN THE GFCI BRANCH CIRCUIT AND BREAKER FEEDING THIS PANEL.

CKT	Circuit Description	Trip	Poles	Wire	A	B	C	Wire	Poles	Trip	Circuit Description	CKT
1	CHP-1 (2)	60	3	4	5.55 5.55			4	3	60	CHP-2 (2)	2
3	--	--	--	--		5.55 5.55		--	--	--	--	4
5	--	--	--	--			5.55 5.55	--	--	--	--	6
7	HWP-2 (2)	50	3	8	3.70 3.70			8	3	50	HWP-1 (2)	8
9	--	--	--	--		3.70 3.70		--	--	--	--	10
11	--	--	--	--			3.70 3.70	--	--	--	--	12
13	AHU-1 SUPPLY FANS (2)	60	3	6	6.39 6.39			6	3	60	AHU-1 RETURN FANS (2)	14
15	--	--	--	--		6.39 6.39		--	--	--	--	16
17	--	--	--	--			6.39 6.39	--	--	--	--	18
19	AHU-2 SUPPLY FANS (2)	60	3	6	6.39 6.39			6	3	60	AHU-2 RETURN FANS (2)	20
21	--	--	--	--		6.39 6.39		--	--	--	--	22
23	--	--	--	--			6.39 6.39	--	--	--	--	24
25	AHU-1 LIGHTS	20	1	12	0.50 0.50			12	1	20	AHU-1 UV LIGHT	26
27	AHU-2 LIGHTS	20	1	12		0.50 0.50		12	1	20	AHU-2 UV LIGHT	28
29	DOAS-1 SUPPLY FAN (2)	15	3	12			0.74 0.50	12	1	15	DOAS LIGHTS	30
31	--	--	--	--	0.74 0.50			12	1	15	DOAS-1 UV LIGHT	32
33	--	--	--	--		0.74 1.20		12	1	20	BOILER B-1	34
35	BOILER B-2	20	1	12			1.20 0.80	12	1	20	VAV 1-1,2,3 AND 2-1	36
37	VAV 1-4 AND VAV 2-2,3	20	1	12	0.60 0.36			12	1	20	WATER HEATERS/CIRC PUMPS (4)	38
39	WATER HEATER (4)	20	1	12		0.36 --		--	1	--	Space	40
41	Space	--	1	--			-- --	--	1	--	Space	42
43	Space	--	1	--	-- --			--	1	--	Space	44
45	Space	--	1	--		-- --		--	1	--	Space	46
47	Space	--	1	--			-- --	--	1	--	Space	48
49	Space	--	1	--	-- --			--	1	--	Space	50
51	Space	--	1	--		-- --		--	1	--	Space	52
53	Space	--	1	--			-- --	--	1	--	Space	54
		Total Load:			47250 VA	47350 VA	47290 VA					
		Total Amps:			394 A	395 A	394 A					

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	138171 VA	100.00%	138171 VA		
NON-CONTINUOUS	3000 VA	100.00%	3000 VA	**Total Conn. Load:**	141891 VA
RECEPTS	720 VA	100.00%	720 VA	**Total Feeder Load:**	141891 VA
				Total Connected Current:	394 A
				Total Feeder Current:	394 A

INVERTER: LV1

NEW

LOCATION: MECH ROOM
SUPPLY FROM: LL1
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-1PH, 3W
PHASES: 1
WIRES: 3

A.I.C. RATING: 5,000
MAINS TYPE: M.L.O.
MAINS RATING:
REQUIREMENTS: GROUND BAR

NOTES:
PROVIDE 5KW INVERTER, CIRCUIT BREAKERS SHOWN ARE INTEGRAL TO LIGHTING INVERTER

CKT	Circuit Description	Trip	Poles	Wire	A (kVA)	C (kVA)	Wire	Poles	Trip	Circuit Description	CKT
1	SECOND FLOOR LIGHTING	20	1	12	1.04 0.33		12	1	20	THIRD FLOOR LIGHTING	2
3	EXTERIOR LIGHTS (6,10)	20	1	8		0.45 1.18	12	1	20	FIRST FLOOR LIGHTING	4
5	Space	--	1	--	-- --		--	1	--	Space	6
7	Space	--	1	--		-- --	--	1	--	Space	8
9	Space	--	1	--	-- --		--	1	--	Space	10
11	Space	--	1	--		-- --	--	1	--	Space	12
		Total Load:			1370 VA	1626 VA					
		Total Amps:			13 A	15 A					

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
LIGHTS	2996 VA	125.00%	3745 VA		
				Total Conn. Load:	2996 VA
				Total Feeder Load:	3745 VA
				Total Connected Current:	14 A
				Total Feeder Current:	18 A

SWITCHBOARD: MSWB

NEW

LOCATION: ELEC ROOM
SUPPLY FROM: UTILITY
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4

A.I.C. RATING: FULLY (7)
MAINS TYPE: M.C.B.
MAINS RATING: 2000 A
REQUIREMENTS: GROUND BAR
SERVICE ENTRY RATED

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A	B	C	Wire	Poles	Trip	Circuit Description	CKT
1	PANEL L1A (6)	200	3		12.80 25.89				3	200	PANEL L1B (8)	2
3	--	--	--	--		14.16 27.31		--	--	--	--	4
5	--	--	--	--			19.73 25.94	--	--	--	--	6
7	PANEL L2A (6)	200	3		7.58 17.65				3	200	PANEL L2B (8)	8
9	--	--	--	--		7.45 18.32		--	--	--	--	10
11	--	--	--	--			8.17 18.97	--	--	--	--	12
13	PANEL L3A (8)	200	3		14.77 14.21				3	200	PANEL L3B (8)	14
15	--	--	--	--		15.19 17.63		--	--	--	--	16
17	--	--	--	--			13.67 14.76	--	--	--	--	18
19	PANEL LL1 (8)	200	3		6.76 47.25				3	600	PANEL LLM (8)	20
21	--	--	--	--		8.08 47.35		--	--	--	--	22
23	--	--	--	--			7.92 47.29	--	--	--	--	24
25	CH-1 (8)	600	3		67.85 --				1	--	Space	26
27	--	--	--	--		67.85 --		--	1	--	Space	28
29	--	--	--	--			67.85 --	--	1	--	Space	30
31	Space	--	1	--	-- --			--	1	--	Space	32
33	Space	--	1	--		-- --		--	1	--	Space	34
35	Space	--	1	--			-- --	--	1	--	Space	36
37	Space	--	1	--	-- --			--	1	--	Space	38
39	Space	--	1	--		-- --		--	1	--	Space	40
41	Space	--	1	--			-- --	--	1	--	Space	42
43	Space	--	1	--	-- --			--	1	--	Space	44
45	Space	--	1	--		-- --		--	1	--	Space	46
47	Space	--	1	--			-- --	--	1	--	Space	48
49	Space	--	1	--	-- 0.00			--	3	100	SPD	50
51	Space	--	1	--		-- 0.00		--	--	--	--	52
53	Space	--	1	--			-- 0.00	--	--	--	--	54
		Total Load:			214760 VA	223343 VA	224284 VA					
		Total Amps:			1790 A	1872 A	1880 A					

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	391680 VA	100.00%	391680 VA		
KITCHEN	41332 VA	65.00%	26865 VA	**Total Conn. Load:**	662388 VA
LIGHTS	15750 VA	125.00%	19687 VA	**Total Feeder Load:**	592891 VA
NON-CONTINUOUS	80252 VA	100.00%	80252 VA	**Total Connected Current:**	1839 A
RECEPTS	127936 VA	53.91%	68968 VA	**Total Feeder Current:**	1646 A
REFRIGERATION	5440 VA	100.00%	5440 VA		

PANELBOARD NOTES (#)

NOTE IS IN CIRCUIT DESCRIPTION IN PARENTHESIS

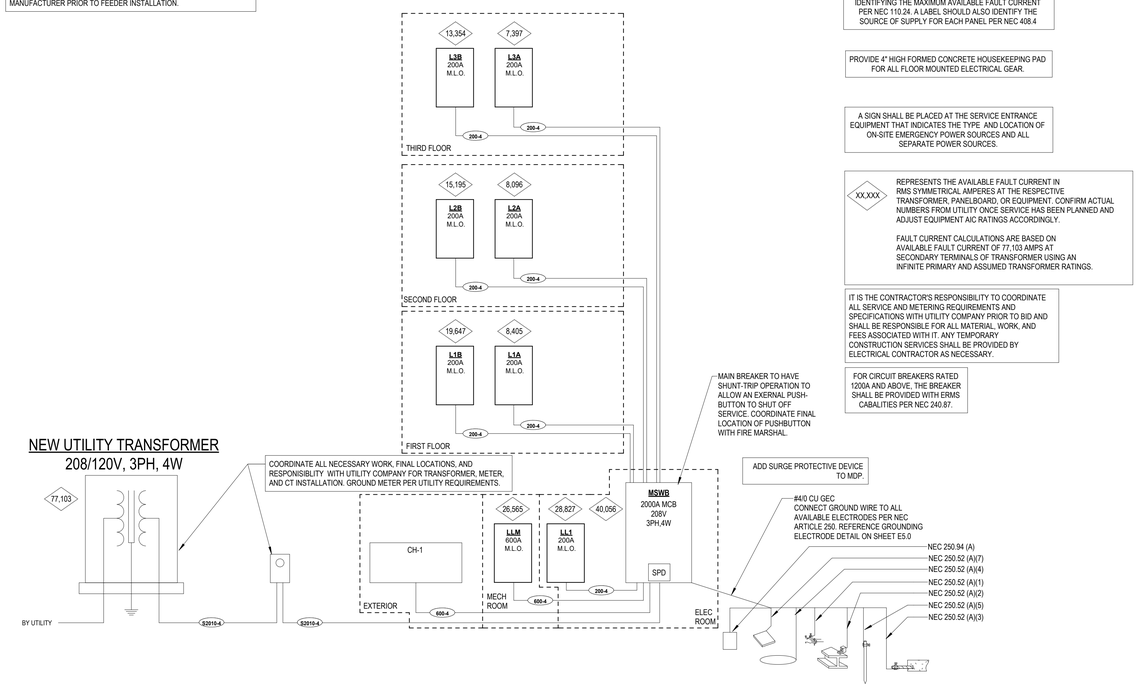
1.	TERMINATE GROUND ON ISOLATED GROUND BUS.
2.	INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3.	INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4.	GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
5.	GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
6.	CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7.	REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8.	REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9.	FACTORY WIRED TO LOAD.
10.	THRU CONTACTOR FOR TIMED CONTROL.
11.	LOAD IS EXISTING TO REMAIN.
12	SHUNT TRIP BREAKER
13	EXISTING LOAD IS RELOCATED TO NEW PANEL
(E)	EXISTING TO REMAIN
(N)	NEW CIRCUIT

XX-X EP ONE-LINE FEEDER SCHEDULE

FEEDER TYPE	COPPER FEEDER
200-4	1 - 2"C, 4#3/0, 1#6GR
600-4	2 - 3"C, 4-350KCMIL, 1#1GR EACH
S2010-4	6 - 3"C, 4-400KCMIL EACH

CONDUIT SIZED BASED ON CONDUCTOR PROPERTIES LISTED IN THE CURRENT NEC EDITION, CHAPTER. 9, TABLES 5 AND 5A, AND CONDUIT AREAS LISTED CHAPTER 9. TABLE 4 FOR EMT WITH 40% FILL. OTHER CONDITIONS MAY REQUIRE A LARGER CONDUIT, SUCH AS UNDERGROUND PVC, SIZED FOR NEC.

COORDINATE LUG SIZE, TYPE, AND AMOUNT WITH EQUIPMENT MANUFACTURER PRIOR TO FEEDER INSTALLATION.



PROVIDE LABEL AT SERVICE ENTRANCE EQUIPMENT IDENTIFYING THE MAXIMUM AVAILABLE FAULT CURRENT PER NEC 110.24. A LABEL SHOULD ALSO IDENTIFY THE SOURCE OF SUPPLY FOR EACH PANEL PER NEC 408.4

PROVIDE 4" HIGH FORMED CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL GEAR.

A SIGN SHALL BE PLACED AT THE SERVICE ENTRANCE EQUIPMENT THAT INDICATES THE TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES AND ALL SEPARATE POWER SOURCES.

XX,XXX — REPRESENTS THE AVAILABLE FAULT CURRENT IN RMS SYMMETRICAL AMPERES AT THE RESPECTIVE TRANSFORMER, PANELBOARD, OR EQUIPMENT. CONFIRM ACTUAL NUMBERS FROM UTILITY ONCE SERVICE HAS BEEN PLANNED AND ADJUST EQUIPMENT AIC RATINGS ACCORDINGLY.

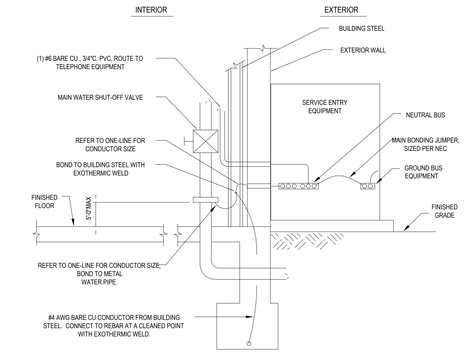
FAULT CURRENT CALCULATIONS ARE BASED ON AVAILABLE FAULT CURRENT OF 77,103 AMPS AT SECONDARY TERMINALS OF TRANSFORMER USING AN INFINITE PRIMARY AND ASSUMED TRANSFORMER RATINGS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL SERVICE AND METERING REQUIREMENTS AND SPECIFICATIONS WITH UTILITY COMPANY PRIOR TO BID AND SHALL BE RESPONSIBLE FOR ALL MATERIAL, WORK, AND FEES ASSOCIATED WITH IT. ANY TEMPORARY CONSTRUCTION SERVICES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AS NECESSARY.

FOR CIRCUIT BREAKERS RATED 1200A AND ABOVE, THE BREAKER SHALL BE PROVIDED WITH ERMS CABALITIES PER NEC 240.87.

1 ELECTRICAL ONE-LINE DIAGRAM

NTS



Notes:

1. GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH LOCAL CODES AND/OR AUTHORITY HAVING JURISDICTION.
2. EXTERIOR SWITCHGEAR SHOWN AS AN EXAMPLE AND MAY NOT APPLY. SAME WIRING SHALL APPLY TO INTERIOR SWITCHGEAR OR SERVICE ENTRY EQUIPMENT.

3 GROUNDING ELECTRODE DETAIL

NTS

GROUND WIRE SIZING CHART

BRKR AMPS		WIRE SIZE				
15-20	PHASE	12	10	8	6	4
	GROUND	12	10	8	6	4
25-30	PHASE	10	8	6	4	3
	GROUND	10	8	6	4	3
35-50	PHASE	8	6	4	3	2
	GROUND	10	8	4	4	4
60	PHASE	6	4	3	2	1
	GROUND	10	6	6	4	4
70	PHASE	6	4	3	2	1
	GROUND	8	4	4	3	2
80-90	PHASE	4	3	2	1	1/0
	GROUND	8	6	4	4	3
100	PHASE	3	2	1	1/0	2/0
	GROUND	8	6	4	4	3
PER NEC 250.122(B)						

EQUIPMENT LABELS

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS, REFER TO ARC FLASH DETAIL.

WARNING

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

2 ARC FLASH DETAIL

NTS

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CONSTRUCTION DOCUMENTS

No.	Issue	Date

Job No. UAFAPH-21.01

Date 12.18.2025

Title ELECTRICAL ONE-LINE DIAGRAM

Sheet No. **E7.00**

Project Name
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PANELBOARD: L2A — NEW

LOCATION: SECOND FLOOR EAST
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A (kVA)		B (kVA)		C (kVA)		Wire	Poles	Trip	Circuit Description	CKT
1	STUDY 200 RECEPTS	20	1	12	0.90	1.44					10	1	20	STUDY 200 RECEPTS (6)	2
3	STAIR HALL 201 RECEPTS	20	1	12			1.44	1.44			12	1	20	2 BED 206 RECEPTS	4
5	GUEST SUITE 204 RECEPTS	20	1	12					1.26	1.44	12	1	20	2 BED 208 RECEPTS	6
7	4 BED 210 RECEPTS	20	1	12	1.26	1.26					12	1	20	4 BED 210 RECEPTS	8
9	GROUP STUDY 212 RECEPTS	20	1	12			1.08	0.86			12	1	20	CORRIDOR 202 BOTTLE FILLER	10
11	GROUP RESTROOM RECEPT	20	1	12					0.18	0.18	12	1	20	GROUP RESTROOM RECEPT	12
13	GROUP RESTROOM RECEPT	20	1	12	0.18	0.18					12	1	20	GROUP RESTROOM RECEPT	14
15	GROUP RESTROOM RECEPT	20	1	12			0.18	0.18			12	1	20	GROUP RESTROOM RECEPT	16
17	2 BED 214 RECEPTS	20	1	12					1.26	1.26	12	1	20	2 BED 218 RECEPTS	18
19	3 BED 220 RECEPTS	20	1	12	0.90	1.08					12	1	20	3 BED 220 RECEPTS	20
21	GROUP RESTROOM RECEPT	20	1	12			0.18	0.36			12	1	20	GROUP STUDY 212 FLOORBOXES	22
23	CORRIDOR 202 RECEPTS	20	1	12					0.72	0.85	12	1	20	BEDROOM LIGHTING	24
25	BEDROOM/RESTROOM LIGHTING	20	1	12	0.11	0.26					12	1	20	RESTROOM LIGHTING/MIRRORS	26
27	FCU - 226,227,228 (6)	15	1	10			0.76	0.97			12	1	15	FCU- 200,231,232 (6)	28
29	FCU - 223,224,229,230 (6)	15	1	10					1.02	--	--	1	--	Space	30
31	Space	--	1	--	--	--					--	1	--	Space	32
33	Space	--	1	--			--	--			--	1	--	Space	34
35	Space	--	1	--					--	--	--	1	--	Space	36
37	Space	--	1	--	--	--					--	1	--	Space	38
39	Space	--	1	--			--	--			--	1	--	Space	40
41	Space	--	1	--					--	--	--	1	--	Space	42
			Total Load:		7577 VA		7452 VA		8173 VA						
			Total Amps:		63 A		62 A		68 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	2748 VA	100.00%	2748 VA		
LIGHTS	1230 VA	125.00%	1538 VA	**Total Conn. Load:**	23202 VA
NON-CONTINUOUS	864 VA	100.00%	864 VA	**Total Feeder Load:**	19330 VA
RECEPTS	18360 VA	77.23%	14180 VA	**Total Connected Current:**	64 A
				Total Feeder Current:	54 A

PANELBOARD: L3B — NEW

LOCATION: THIRD FLOOR WEST
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A		B		C		Wire	Poles	Trip	Circuit Description	CKT
1	2+2 BED 305 RECEPTS (6)	20	1	10	1.26	1.08					10	1	20	2+2 BED 305 RECEPTS (6)	2
3	2+2 BED 309 RECEPTS (6)	20	1	10			1.26	1.08			10	1	20	2+2 BED 309 RECEPTS (6)	4
5	CORRIDOR 301 RECEPTS	20	1	12					0.90	0.18	12	1	20	GROUP RESTROOM RECEPT	6
7	GROUP RESTROOM RECEPT	20	1	12	0.18	0.18					12	1	20	GROUP RESTROOM RECEPT	8
9	GROUP RESTROOM RECEPT	20	1	12			0.18	0.18			12	1	20	GROUP RESTROOM RECEPT	10
11	GROUP RESTROOM RECEPT	20	1	12					0.18	0.18	12	1	20	GROUP RESTROOM RECEPT	12
13	GROUP RESTROOM RECEPT	20	1	12	0.18	0.18					12	1	20	GROUP RESTROOM RECEPT	14
15	CORRIDOR 301 BOTTLE FILLER	20	1	12			0.86	1.26			12	1	20	2 BED 319 RECEPTS	16
17	2 BED 323 RECEPTS	20	1	12					1.26	0.72	12	1	20	CORRIDOR 301 RECEPTS	18
19	2 BED 325 RECEPTS	20	1	12	1.26	0.90					12	1	20	3+1 BED 321 RECEPTS	20
21	3+1 BED 321 RECEPTS	20	1	12			1.26	0.90			12	1	20	3 BED 317 RECEPTS	22
23	3 BED 317 RECEPTS	20	1	12					0.90	1.26	12	1	20	3+1 BED 313 RECEPTS	24
25	3+1 BED 313 RECEPTS	20	1	12	0.90	0.91					12	1	20	BEDROOM LIGHTING	26
27	BEDROOM/RESTROOM LIGHTING	20	1	12			0.65	1.00			12	1	20	ELEVATOR CAB LIGHTS	28
29	ELEVATOR (2,12)	60	3	4					4.80	0.23	12	1	20	ELEVATOR HOIST LIGHTING/POWER	30
31	--	--	--	--	4.80	0.23					12	1	20	THIRD FLOOR COORIDOR LIGHTING	32
33	--	--	--	--			4.80	0.30			12	1	20	RESTROOM BACK LIT MIRRORS	34
35	FCU - 307,309,310,3ST2	15	1	12					0.98	0.36	12	1	20	ROOF MAINTENANCE RECEPTS	36
37	FCU - 305,306,311,312	15	1	12	1.00	--					--	1	--	Space	38
39	EF-1	30	2	10			1.66	1.09			12	1	15	FCU - 301,302,303,313 - EF-4	40
41	--	--	--	--					1.66	1.14	12	3	15	KEF-1	42
43	Space	--	1	--	--	1.44					--	--	--	--	44
45	Space	--	1	--			--	1.14			--	--	--	--	46
47	Space	--	1	--					--	--	--	1	--	Space	48
49	Space	--	1	--	--	--					--	1	--	Space	50
51	Space	--	1	--			--	--			--	1	--	Space	52
53	Space	--	1	--					--	--	--	1	--	Space	54
			Total Load:		14208 VA		17635 VA		14757 VA						
			Total Amps:		118 A		148 A		124 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	25234 VA	100.00%	25234 VA		
LIGHTS	2141 VA	125.00%	2677 VA	**Total Conn. Load:**	46600 VA
NON-CONTINUOUS	864 VA	100.00%	864 VA	**Total Feeder Load:**	42955 VA
RECEPTS	18360 VA	77.23%	14180 VA	**Total Connected Current:**	129 A
				Total Feeder Current:	119 A

PANELBOARD: LL1 — NEW

LOCATION: LOWER LEVEL
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:
SERIES RATED BREAKER FOR GFCI BREAKERS ONLY IS ALLOWED IN THIS PANEL. PROVIDE BREAKERS THAT ARE A LISTED SERIES RATED PAIR, THE SERIES RATING SHOULD BE BETWEEN THE GFCI BRANCH CIRCUIT AND BREAKER FEEDING THIS PANEL.

CKT	Circuit Description	Trip	Poles	Wire	A (kVA)		B (kVA)		C (kVA)		Wire	Poles	Trip	Circuit Description	CKT
1	STAIRS/ELEC/LAUNDRY RECEPTS	20	1	12	0.90	1.00					12	1	20	WASHER (4)	2
3	DRYER (4)	30	2	10			2.50	1.08			12	1	20	MECH 002 RECEPTS	4
5	--	--	--	--					2.50	0.90	12	1	20	SHELLED SPACE RECEPTS	6
7	SHELLED SPACE RECEPTS	20	1	12	0.90	1.15					12	1	20	LOWER LEVEL LIGHTING	8
9	STAIR WELL LIGHTING	20	1	12			0.28	2.50			10	2	30	DATA RACK	10
11	PHONEBOARD	20	1	12					0.18	2.50	--	--	--	--	12
13	FACP (3)	20	1	12	0.50	0.18					12	1	20	PHONEBOARD	14
15	ELEVATOR PIT SUMP PUMP	20	1	12			0.96	0.23			12	1	20	ELEVATOR PIT LIGHTING/RECEPT	16
17	5KW INVERTER (LV1)	30	2	10					1.37	0.52	10	1	20	POLE LIGHTING (6,10)	18
19	--	--	--	--	1.63	0.50					12	1	20	SECURITY/ACCESS PANEL (3)	20
21	EXTERIOR RECEPTS (10)	20	1	10			0.54	--			--	1	--	Space	22
23	Space	--	1	--					--	--	--	1	--	Space	24
25	Space	--	1	--	--	--					--	1	--	Space	26
27	Space	--	1	--			--	--			--	1	--	Space	28
29	Space	--	1	--					--	--	--	1	--	Space	30
31	Space	--	1	--	--	--					--	1	--	Space	32
33	Space	--	1	--			--	--			--	1	--	Space	34
35	Space	--	1	--					--	--	--	1	--	Space	36
37	Space	--	1	--	--	--					--	1	--	Space	38
39	Space	--	1	--			--	--			--	1	--	Space	40
41	Space	--	1	--					--	--	--	1	--	Space	42
			Total Load:		6761 VA		8077 VA		7917 VA						
			Total Amps:		56 A		69 A		67 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
LIGHTS	4953 VA	125.00%	6191 VA		
NON-CONTINUOUS	10984 VA	100.00%	10984 VA	**Total Conn. Load:**	22753 VA
RECEPTS	6820 VA	100.00%	6820 VA	**Total Feeder Load:**	23990 VA
				Total Connected Current:	63 A
				Total Feeder Current:	67 A

PANELBOARD: L1B — NEW

LOCATION: FIRST FLOOR WEST
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A		B		C		Wire	Poles	Trip	Circuit Description	CKT
1	LIBRARY 103 RECEPTS	20	1	12	0.72	0.54					12	1	20	LIBRARY 103 RECEPTS	2
3	LIBRARY 103 FLOORBOXES	20	1	12			0.36	0.95			12	1	20	E21 COMBI OVEN	4
5	E30 HEATED HOLDING CABINET (4)	20	1	12					1.50	--	--	1	--	SHUNT TRIP	6
7	KITCHEN LIGHTING	20	1	12	0.48	0.24					12	1	20	E23 REFRIGERATED EQUIP STAND	8
9	E34 REACH IN REFRIGERATOR (4)	20	1	12			0.46	--			--	1	--	SHUNT TRIP	10
11	E37 SLICER (4)	20	1	12					0.22	1.20	12	1	20	E49 REACH IN FREEZERS (4)	12
13	KITCHEN 109 RECEPTS	20	1	12	0.36	1.50					12	1	20	E30 HEATED HOLDING CABINET (4)	14
15	SHUNT TRIP	--	1	--	--	--	--	1.20			--	1	--	E35 MIXER (4)	16
17	KITCHEN 109 RECEPTS	20	1	12					0.72	0.72	12	1	20	KITCHEN 109 RECEPTS	18
19	KITCHEN 109 RECEPTS	20	1	12	0.72	0.54					12	1	20	SERVERY 109A RECEPTS	20
21	WEEKEND KITCHEN RECEPTS	20	1	12			0.72	0.86			12	1	20	WEEKEND KITCHEN DISPOSAL (4)	22
23	E67 DISPOSAL (4)	20	2	12					0.80	4.92	6	3	60	E66 DISHWASHER (4)	24
25	--	--	--	--	0.80	4.92					--	--	--	--	26
27	WEEKEND KITCHEN RECEPTS	20	1	12			0.36	4.92			--	--	--	--	28
29	KITCHEN 109 RECEPTS	20	1	12					0.36	0.36	12	1	20	E42 U/C REFRIGERATORS (4)	30
31	SERVERY 109A RECEPTS	20	1	12	0.72	1.56					12	1	20	E78 MICROWAVE (4)	32
33	E81 AIR FRYER (4)	20	1	12			1.00	1.80			12	1	20	E80 TOASTER (4)	34
35	E54 U/C REFRIGERATOR (4)	20	1	12					0.36	0.72	12	1	20	SERVERY 109A RECEPTS	36
37	DINING 107 RECEPTS	20	1	12	0.90	1.08					12	1	20	DINING 107/107A RECEPTS	38
39	DINING 107 RECEPTS	20	1	12			1.08	1.08			12	1	20	DINING 107 RECEPTS	40
41	DINING 107 FLOORBOXES	20	1	12					0.72	1.08	12	1	20	DINING 107 RECEPTS	42
43	DINING 107 FLOORBOXES	20	1	12	0.72	1.08					10	1	20	DINING 107A RECEPTS (6)	44
45	DINING 107A FLOORBOXES	20	1	12			0.72	0.21			10	1	20	EXTERIOR LIGHTS (6,10)	46
47	DINING 107 BOTTLE FILLER	20	1	12					0.86	1.24	12	1	20	DINING 107/107A LIGHTING	48
49	COURTYARD RECEPTS	20	1	12	0.72	1.09					12	1	20	E61 - DROP IN COLD WELL	50
51	E60 - DROP IN HOT WELL	30	2	10			2.50	1.40			12	1	20	E62 - SNEEZE GUARD	52
53	--	--	--	--					2.50	0.70	12	1	15	VAV 1-5,6 - FCU-1ST2	54
55	VAV 1-7,8,9,10	20	1	12	0.80	1.80					12	1	20	PROJECTOR SCREEN	56
57	PROJECTOR SCREEN	20	1	12			1.80	0.90			12	1	20	PROJECTOR SCREEN	58
59	AV CONTROL PANEL	20	1	12					0.90	1.00	12	1	20	FREEZER/COOLER DOORS/LIGHTS	60
61	COOLER EVAP	20	1	12	0.24	0.74					2	2	20	FREEZER EVAP	62
63	E55 - ICE MAKER (4)	20	1	12			1.94	0.74			--	--	--	--	64
65	E58 - JUICE DISPENSER (4)	20	1	12					1.60	1.60	12	1	20	E57 - COFFEE MACHINE (4)	66
67	E56 - SODA DISPENSER (4)	20	1	12	1.94	0.90					12	1	20	E20-KITCHEN HOOD	68
69	COILING COUNTER DOOR	20	1	12			0.50	0.72			10	1	20	COURTYARD RECEPTS (6)	70
71	E85C COOLER CONDENSING UNIT	15	2	12					0.77	--	--	1	--	Space	72
73	--	--	--	--	0.77	--					--	1	--	Space	74
75	E85E FREEZER CONDENSING UNIT	15	2	12			1.09	--			--	1	--	Space	76
77	--	--	--	--					1.09	--	--	1	--	Space	78
79	Space	--	1	--	--	--					--	1	--	Space	80
81	Space	--	1	--			--	--			--	1	--	Space	82
83	Space	--	1	--					--	--	--	1	--	Space	84
			Total Load:		25888 VA		27306 VA		25940 VA						
			Total Amps:		216 A		228 A		216 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	1502 VA	100.00%	1502 VA		
KITCHEN	41332 VA	65.00%	26865 VA	**Total Conn. Load:**	79134 VA
LIGHTS	1928 VA	125.00%	2410 VA	**Total Feeder Load:**	59944 VA
NON-CONTINUOUS	8520 VA	100.00%	8520 VA	**Total Connected Current:**	220 A
RECEPTS	20412 VA	74.50%	15206 VA	**Total Feeder Current:**	166 A
REFRIGERATION	5440 VA	100.00%	5440 VA		

PANELBOARD: L3A — NEW

LOCATION: THIRD FLOOR EAST
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A		B		C		Wire	Poles	Trip	Circuit Description	CKT
1	3 BED 318 RECEPTS	20	1	12	0.54	0.90					12	1	20	3 BED 318 RECEPTS	2
3	3+1 BED 316 RECEPTS	20	1	12			0.90	0.90			12	1	20	3+1 BED 316 RECEPTS	4
5	WASHER (4)	20	1	12					0.18	2.50	10	2	30	DRYER (4)	6
7	WASHER (4)	20	1	12	0.18	2.50					--	--	--	--	8
9	DRYER (4)	30	2	10			2.50	0.18			12	1	20	WASHER (4)	10
11	--	--	--	--					2.50	0.18	12	1	20	WASHER (4)	12
13	DRYER (4)	30	2	10	2.50	2.50					10	2	30	DRYER (4)	14
15	--	--	--	--			2.50	2.50			--	--	--	--	16
17	LAUNDRY 312 RECEPTS	20	1	12					0.72	0.86	12	1	20	CORRIDOR 302 BOTTLE FILLER	18
19	2+2 BED 314 RECEPTS	20	1	12	1.08	0.90					12	1	20	2+2 BED 314 RECEPTS	20
21	2+2 BED 310 RECEPTS	20	1	12			1.08	1.08			12	1	20	2+2 BED 310 RECEPTS	22
23	2 BED 306 RECEPTS	20	1	12					1.26	1.26	12	1	20	2 BED 307 RECEPTS	24
25	2+2 BED 308 RECEPTS	20	1	12	1.08	1.26					12	1	20	2+2 BED 308 RECEPTS	26
27	2+2 BED 304 RECEPTS	20	1	12			1.26	1.08			12	1	20	2+2 BED 304 RECEPTS	28
29	STUDY 300 RECEPTS	20	1	12					1.26	1.44	12	1	20	STUDY 300 RECEPTS	30
31	CORRIDOR 301 RECEPTS	20	1	12	0.54	0.80					12	1	20	BEDROOM LIGHTING	32
33	BEDROOM LIGHTING	20	1	12			0.47	0.76			12	1	15	FCU - 320,322,323	34
35	FCU - 314,315,316	15	1	12					0.76	0.76	12	1	20	FCU - 318,319, 3ST3	36
37	Space	--	1	--	--	--					--	1	--	Space	38
39	Space	--	1	--			--	--			--	1	--	Space	40
41	Space	--	1	--	--	--					--	1	--	Space	42
43	Space	--	1	--			--	--	--	--	--	1	--	Space	44
45	Space	--	1	--							--	1	--	Space	46
47	Space	--	1	--	--	--			--	--	--	1	--	Space	48
49	Space	--	1	--			--	--			--	1	--	Space	50
51	Space	--	1	--					--	--	--	1	--	Space	52
53	Space	--	1	--	--	--					--	1	--	Space	54
			Total Load:		14773 VA		15194 VA		13668 VA						
			Total Amps:		125 A		128 A		114 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	2268 VA	100.00%	2268 VA		
LIGHTS	1274 VA	125.00%	1593 VA	**Total Conn. Load:**	43634 VA
NON-CONTINUOUS	20832 VA	100.00%	20832 VA	**Total Feeder Load:**	39323 VA
RECEPTS	19260 VA	75.96%	14630 VA	**Total Connected Current:**	121 A
				Total Feeder Current:	109 A

PANELBOARD: L1A — NEW

LOCATION: FIRST FLOOR EAST
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A		B		C		Wire	Poles	Trip	Circuit Description	CKT
1	LOUNGE 106 RECEPTS	20	1	12	0.72	0.72					12	1	20	LOUNGE 106 RECEPTS	2
3	--	--	--	--							--	--	--	--	4
5	CORRIDOR 102C RECEPTS	20	1	12					1.26	0.72	12	1	20	LIVING ROOM 104 RECEPTS	6
7	MAIL ROOM 110 RECEPTS	20	1	12	1.08	0.90					12	1	20	LIVING ROOM 104 RECEPTS	8
9	LIVING ROOM 104 FLOORBOXES	20	1	12			0.36	1.08			12	1	20	CORR 102/FOYER/WOMENS RECEPTS	10
11	CORR 102/FOYER/RESTROOM...	20	1	12					0.90	0.72	12	1	20	FOYER/EXTERIOR RECEPTS	12
13	MOTHERS SUITE LIGHTS	20	1	12	0.25	0.20					12	1	20	STAIR WELL LIGHTING	14
15	FIRST FLOOR LIGHTING	20	1	12			0.61	0.14			12	1	20	FIRST FLOOR LIGHTING	16
17	LIVING 108A RECEPTS	20	1	12					1.08	1.00	12	1	20	SUITE REFRIGERATOR (4)	18
19	KITCHEN 108F RECEPTS	20	1	12	0.36	1.00					12	1	20	KITCHEN 108F DISHWASHER (4)	20
21	KITCHEN 108F DISPOSAL (4)	20	1	12			0.86	0.36			12	1	20	KITCHEN 108F RECEPTS	22
23	KITCHEN 108F OVEN (4)	50	2	6					4.16	0.72	12	1	20	KITCHEN 108F RECEPTS	24
25	--	--	--	--	4.16	2.50					10	2	30	SUITE DRYER (4)	26
27	SUITE WASHER (4)	20	1	12			1.00	2.50			--	--	--	--	28
29	OFFICE/LIVING RECEPTS	20	1	12					0.90	1.08	12	1	20	BEDROOM 108B RECEPTS	30
31	BATHROOM 108C RECEPT	20	1	12	0.18	0.15					12	1	20	COURTYARD LIGHTING (6,10)	32
33	CORRIDOR 114 BOTTLE FILLER	20	1	12			0.86	1.40			12	2	20	HP-1	34
35	VAV 1-11,12,13,14	20	1	12					0.80	1.40	--	--	--	--	36
37	FCU - 1ST3	15	1	12	0.25	0.16					12	1	20	FOYER/ENTRY LIGHT (10)	38
39	AC-1	30	2	10			2.98	2.00			10	2	30	EWH-1	40
41	--	--	--	--					2.98	2.00	--	--	--	--	42
43	CP-3	20	1	12	0.18	--					--	1	--	Space	44
45	Space	--	1	--			--	--			--	1	--	Space	46
47	Space	--	1	--					--	--	--	1	--	Space	48
49	Space	--	1	--	--	--					--	1	--	Space	50
51	Space	--	1	--			--	--			--	1	--	Space	52
53	Space	--	1	--					--	--	--	1	--	Space	54
			Total Load:		12803 VA		14159 VA		19729 VA						
			Total Amps:		107 A		120 A		166 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	13830 VA	100.00%	13830 VA		
LIGHTS	1501 VA	125.00%	1876 VA	**Total Conn. Load:**	46690 VA
NON-CONTINUOUS	14356 VA	100.00%	14356 VA	**Total Feeder Load:**	43564 VA
RECEPTS	17004 VA	79.40%	13502 VA	**Total Connected Current:**	130 A
				Total Feeder Current:	121 A

PANELBOARD: L2B — NEW

LOCATION: SECOND FLOOR WEST
SUPPLY FROM: MSWB
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4
A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A		B		C		Wire	Poles	Trip	Circuit Description	CKT
1	2 BED 235 RECEPTS	20	1	12	0.90	0.72					12	1	20	2 BED 235 RECEPTS	2
3	2 BED 227 RECEPTS	20	1	12			1.62	1.62			12	1	20	2 BED 229 RECEPTS	4
5	2 BED 225 RECEPTS	20	1	12					1.44	1.44	12	1	20	2 BED 223 RECEPTS	6
7	LEVEL 2



EQUIPMENT SCHEDULE

ITEM	NIKEC	NOT SHOWN	QTY	DESCRIPTION	MANUFACTURER	MODEL
1			1	SHELVING UNIT	ADVANCE TABCO	ECC-2472
2			5	SHELVING UNIT	ADVANCE TABCO	ECC-184-X
3			4	SHELVING UNIT	ADVANCE TABCO	ECC-184X
4			3	SHELVING UNIT	ADVANCE TABCO	ECC-1XXX
5			2	SHELVING PEDESTAL	REGENCY	FCKSP96SS6NK
6-9			1	WORKTABLE	ADVANCE TABCO	ADC-3610 MOD.
10			1	WORKTABLE	ADVANCE TABCO	TMMS-3010 MOD.
11			2	WALL SHELF	ADVANCE TABCO	WCS-15-120-X-16-X
12			2	WORKTABLE	ADVANCE TABCO	KLAS-207-X MOD
13			1	WORKTABLE	ADVANCE TABCO	KLAS-206 MOD
14			2	WALL GRID	CAMBRO	CMG36PR3110
15			1	WORKTABLE	ADVANCE TABCO	KLAS-206 MOD
16		X	1	SINK	BY OTHERS	NKEC
17-19			LOT	CHANGE FLOOR SYSTEM	BY OTHERS	NKEC
20		X	1	SPARE NUMBER	SOUTHBEND	P24S-HDO-SO
21			2	TRAYS	EXPRESS	24CS-5
22			1	EQUIPMENT STAND	EXPRESS	ESSBB-1424
23			1	EQUIPMENT STAND	EXPRESS	ESSBB-1424
24			1	HOTPLATE	SOUTHBEND	HDO-36
25			1	GRIDDLE	SOUTHBEND	HDO-36
26-29				SPARE NUMBER		NKEC
30			2	MOBILE HEATED CABINET	CLEVELAND	HPC7101-C2P9
31			4	TRASH RECEPTACLE	RUBBERMAID	FG354560BLA
32			1	HAND SINK	ADVANCE TABCO	7-PS-20
33			1	SPARE NUMBER		NKEC
34			1	REACH-IN REFRIGERATOR	TURBO AIR	M3F23-1
35			1	REACH-IN REFRIGERATOR	TURBO AIR	M3F23-1
36			1	EQUIPMENT STAND	ADVANCE TABCO	AC-48-302-X
37			1	SLICER	VOLLRATH	40951
38			1	EQUIPMENT STAND	ADVANCE TABCO	AC-48-300
39			3	SPARE NUMBER	ADVANCE TABCO	NKEC
40			3	NESTING PAN RACK	ADVANCE TABCO	NR-20
41			1	MOP SINK	ADVANCE TABCO	9-29-44
42			2	1/1 REFRIGERATOR	SUMMIT	ALS49WH
43-48				SPARE NUMBER		NKEC
49			2	1/1 FREEZER	SUMMIT	ADFD2012H
50		X	1	DESSERT COUNTER	BY OTHERS	NKEC
51		X	1	REFRIGERATED RISER	BY OTHERS	NKEC
52			1	DESSERT COUNTER	BY OTHERS	CUSTOM
53		X	1	FOOD STORAGE CABINET	BY OTHERS	NKEC
54			2	1/1 REFRIGERATOR	SUMMIT	ALS49WH
55			1	ICE BANKER	SCOTSMAN	MC0530MA-1
56		X	1	SODA DISPENSER	BY OTHERS	NKEC
57		X	1	COFFEE	BY OTHERS	NKEC
58		X	1	JUICE DISPENSER	BY OTHERS	NKEC
59				SPARE NUMBER		NKEC
60			1	DROP-IN HOT FOOD WELL	PIPER	CUSTOM
61			1	DROP-IN COLD FOOD WELL	PIPER	CUSTOM
62			1	SNEEZE GUARD	PREMIER METAL	TMCP-X
63-64				SPARE NUMBER		NKEC
65			1	CUTTING BOARD	ADVANCE TABCO	CBSC-4830-1898 MOD.
66			1	DISHWASHER	CHAMPION	CHH-6500-HWE
67				SPARE NUMBER		NKEC
68			1	SOILED DISHTABLE	ADVANCE TABCO	DTS-2172-84L MOD
69		X	1	ROLL-DOWN DOOR	BY OTHERS	NKEC
70-74				SPARE NUMBER		NKEC
75		X	1	UNDERBAR SINK	BY OTHERS	NKEC
76		X	1	NIGHT KITCHEN COUNTER	BY OTHERS	NKEC
77		X	1	NIGHT KITCHEN COUNTER	BY OTHERS	NKEC
78			1	SPARE NUMBER		NKEC
79			1	POP-UP TOASTER	ALTOSHAAM	2513
80			1	SPARE NUMBER		NKEC
81		X	1	AIR FRYER	BY OTHERS	NKEC
82-84				SPARE NUMBER		NKEC
85			1	WALK-IN COOLER/FREEZER	KOLPAK	CUSTOM

Lancaster Schert Equipment LLC
P.O. BOX 273
DANVILLE, IN 46122

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FAYETTEVILLE, AR

PROJECT NO: A25-

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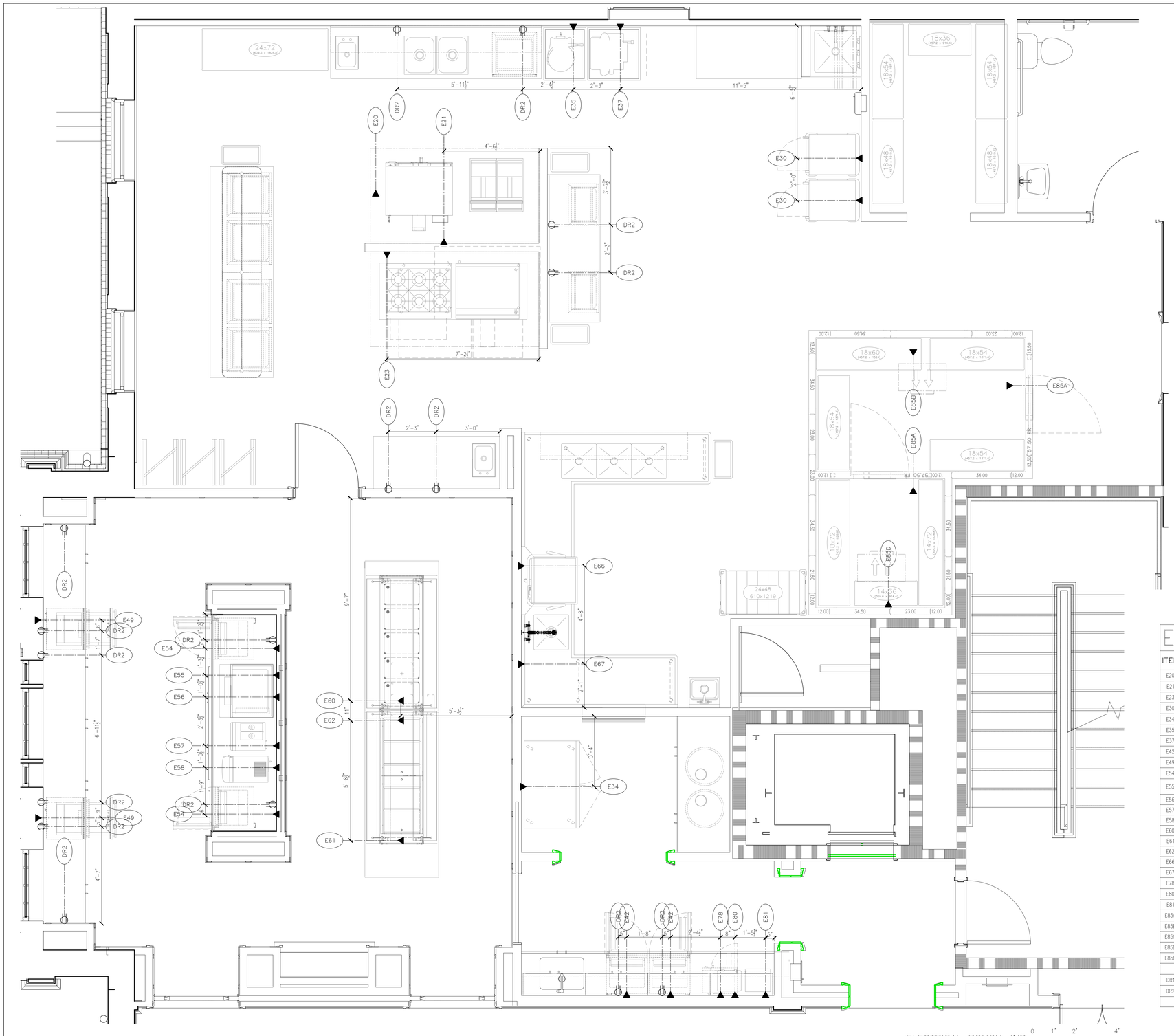
FS1.1



SYMBOL LEGEND

▲	ELECTRICAL CONNECTION
	CONVENIENCE RECEPTACLE
	PLUMBING SUPPLY
	PLUMBING DRAIN
	GAS SUPPLY
	FLOOR DRAIN
	FLOOR SINK

GENERAL ELECTRICAL NOTES

ALL RECEPTACLES AND JUNCTION BOXES SHOWN ARE TO BE RATED IN ACCORDANCE WITH THE FOOD SERVICE EQUIPMENT MANUFACTURER'S SPECIFICATIONS. ALL WALL RECEPTACLES TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.

ELECTRICAL ON THESE DRAWINGS ARE FOR FOOD SERVICE EQUIPMENT ONLY. ELECTRICAL SERVICE REQUIRED FOR ROOM LIGHTING, CONVENIENCE OUTLETS AND ETC. TO BE ADDITIONAL.

ALL DIMENSIONS ARE FROM FINISHED SURFACES OR CENTER LINE OF COLUMNS TO CENTER LINES OF ELECTRICAL ROUGH-IN SERVICE LOCATIONS. ALL WRITTEN DIMENSIONS ARE TO BE CONSIDERED CORRECT AND DRAWINGS ARE NOT TO BE SCALED.

ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY CONTROLS, SWITCHES, STARTERS, SHUT-OFFS, DISCONNECTS, CORD AND PLUGS, AND ANY OTHER DEVICES REQUIRED FOR A PROPER INSTALLATION. E.C. TO COORDINATE AND MAKE ALLOWANCES FOR DEVICES NOT SUPPLIED STANDARD BY THE MANUFACTURER BUT ARE REQUIRED FOR THE FOOD SERVICE EQUIPMENT TO OPERATE PROPERLY.

ALL FOOD SERVICE EQUIPMENT WITH DIRECT ELECTRICAL CONNECTION MUST BE IN SIGHT OF KITCHEN ELECTRICAL DISTRIBUTION PANEL OR HAVE A FUSED QUICK DISCONNECT FURNISHED AND INSTALLED BY THE E.C. ELECTRICAL CONTRACTOR TO FIELD VERIFY WHERE REQUIRED.

ELECTRICAL CONTRACTOR TO PROVIDE GROUNDING WIRE TO ALL FOOD SERVICE EQUIPMENT IN ADDITION TO THE NUMBER OF WIRES NOTED IN INDIVIDUAL SERVICES.

ELECTRICAL CONTRACTOR TO PROVIDE LIGHTING SHIELDS ON LIGHTING OVER FOOD STORAGE AREAS, PREPARATION AREAS, SERVICE AREAS, FOOD DISPLAY AREAS AND WARE WASH UTENSILS AREAS.

ALL ELECTRICAL AMPERAGE NOTED INDICATES AMP "DRAW" AND NOT CIRCUIT BREAKER SIZE UNLESS OTHERWISE NOTED. E.C. TO BE RESPONSIBLE FOR THE PROPER CIRCUIT BREAKER SIZE.

ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL GROUND FAULT RECEPTACLE OR FURNISH GROUND FAULT CIRCUIT BREAKER FOR ANY RECEPTACLE WITHIN 5'-0" OF A SINK.

ELECTRICAL CONTRACTOR TO EXTEND AND PROVIDE ALL FINAL ELECTRICAL HOOK UP & DISCONNECTS AND INSTALL LIGHTS IN WALK-IN COOLER/FREEZER UNIT. E.C. TO PROVIDE SEAL-OFFS AT EACH CONDUIT ENTRANCE AND SEAL WITH SILICONE AT EACH JUNCTION BOX.

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL SHUNT TRIP BREAKERS FOR ALL ELECTRICAL SERVICE TO EQUIPMENT UNDER EXHAUST HOODS.

ELECTRICAL CONTRACTOR TO VERIFY ALL REQUIREMENTS FOR ITEMS THAT ARE EXISTING, BY OWNER, BY VENDOR, N.I.C., AND BY OTHERS. E.C. TO VERIFY WITH SYSTEM SUPPLIER AND PROVIDE/INSTALL ALL CONDUIT RUNS REQUIRED FOR PROPER OPERATION.

ELECTRICAL CONTRACTOR SHALL INSTALL AND INTERCONNECT ALL ELECTRICAL COMPONENTS, ACCESSORIES AND SYSTEMS REQUIRED TO MAKE A COMPLETE AND PROPER INSTALLATION. ALL ELECTRICAL CONDUIT AND CONNECTIONS SHALL BE WATER TIGHT AND RUN CONCEALED WHENEVER POSSIBLE.

ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONTROL CIRCUITS FOR SYSTEMS OF THE EXHAUST & SUPPLY AIR, REFRIGERATION AND DEFROST, WASTE, ALARMS AND FIRE PROTECTION SYSTEM.

ELECTRICAL CONTRACTOR TO TO VERIFY ALL ELECTRICAL CHARACTERISTICS NOTED IN DRAWINGS (VOLTAGE, PHASE, ETC.) AND NOTIFY THE FOOD SERVICE EQUIPMENT CONTRACTOR IN WRITING OF ANY ERRORS/INCONSISTANCIES FOUND.

THIS DRAWING HAS BEEN PREPARED FROM THE ACTUAL ARCHITECTURAL WALL LAYOUT DRAWINGS. ELECTRICAL CONTRACTOR SHALL ALERT THE GENERAL CONTRACTOR ON SITE OF ANY DISCREPANCIES FOUND BETWEEN THIS DRAWING AND THE ACTUAL FIELD CONDITIONS.

ELECTRICAL ROUGH-IN SCHEDULE

ITEM	DESCRIPTION	VOLTS	PHASE	AMP	KW	HP	CONNEC TYPE	AFF	NOTES
E20	EXHAUST HOOD SYSTEM								NIKEC; VERIFY REQUIREMENTS
E21	CONVECTION OVEN	120	1	7.9			PLUG	16"/48"	TWO CONNECTIONS; ONE EA HEIGHT NEMA 5-15P
E23	EQUIPMENT STAND	120	1	2		½	PLUG	16"	NEMA 5-15P
E30	MOBILE HEATED CABINET	120	1	12.5	1.5		PLUG	36"	NEMA 5-15P
E34	REACH-IN	120	1	3.8		¼	PLUG	36"	NEMA 5-15P
E35	MIXER	120	1	10		½	PLUG	48"	NEMA 5-15P
E37	SLICER	120	1	1.8		⅓	PLUG	48"	NEMA 5-15P
E42	U/C REFRIGERATOR	120	1	.8			PLUG	16"	NEMA 5-15P
E49	FREEZER DRAWER	120	1	1			PLUG	16"	NEMA 5-15P
E54	U/C REFRIGERATOR	120	1	.8			PLUG	16"	NEMA 5-15P
E55	ICE MAKER	120	1	16.2			DIRECT	20"	CONFIRM IF ELECTRICAL CONNECTION TO BE ABOVE OR BELOW COUNTER.
E56	SODA DISPENSER	120	1	20			PLUG	20"	CONFIRM IF ELECTRICAL CONNECTION TO BE ABOVE OR BELOW COUNTER. NIKEC; VERIFY REQUIREMENTS
E57	COFFEE						PLUG	20"	
E58	JUICE DISPENSER						PLUG	20"	
E60	DROP-IN HOT	208	1	24			DIRECT	STUB	SEE MANUFACTURER'S DRAWINGS
E61	CROP-IN COLD	120	1	9.1			PLUG	STUB	SEE MANUFACTURER'S DRAWINGS
E62	SNEEZE GUARD	120	1	1			DIRECT	STUB	
E66	DISHWASHER	208-240	3	46-41			DIRECT	16"	
E67	DISPOSER	208	1	7.7		2	DIRECT	16"	EXTEND TO CONTROL PANEL
E78	MICROWAVE OVEN	120	1	13	1.5		PLUG	24"	NEMA 5-15P
E80	POP-UP TOASTER	120	1	15	1.8		PLUG	48"	NEMA 5-15P
E81	AIR FRYER	120	1				PLUG	48"	NIKEC; VERIFY REQUIREMENTS
E85A	WALK-IN COOLER/FREEZER	120	1	20			DIRECT	DFA	SEE MANUFACTURER'S DRAWINGS
E85B	COOLER EVAP	120	1	.8			DIRECT	DFA	SEE MANUFACTURER'S DRAWINGS
E85C	COOLER CONDENSING UNIT	208-230	1	6			DIRECT	–	SEE MANUFACTURER'S DRAWINGS
E85D	FREEZER EVAP	208-230	1	7.1			DIRECT	DFA	SEE MANUFACTURER'S DRAWINGS
E85E	FREEZER CONDENSING UNIT	208-230	3	8.7			DIRECT	–	SEE MANUFACTURER'S DRAWINGS
DR1	DUPLEX CONVENIENCE RECEPTACLE	120	1	16				16"	
DR2	DUPLEX CONVENIENCE RECEPTACLE	120	1	16				48"	HORIZONTAL RECEPTACLE

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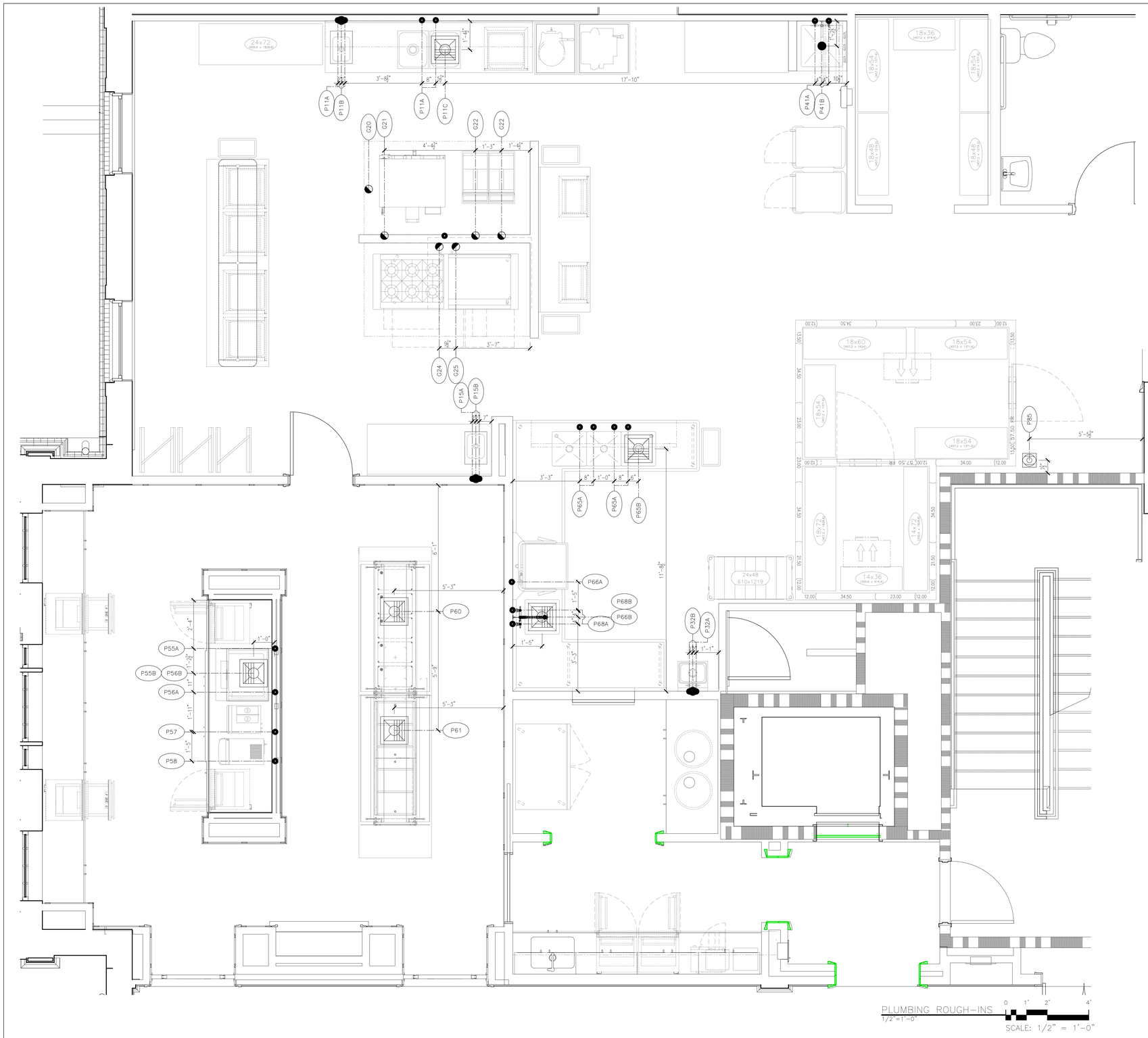

SYMBOL LEGEND

▲	ELECTRICAL CONNECTION
	CONVENIENCE RECEPTACLE
	PLUMBING SUPPLY
	PLUMBING DRAIN
	GAS SUPPLY
	FLOOR DRAIN
	FLOOR SINK

GENERAL PLUMBING NOTES

PLUMBING CONTRACTOR TO PERFORM ALL WORK ACCORDING TO PREVAILING HEALTH AND BUILDING CODES. ALL FOOD SERVICE PLUMBING COMPONENTS AND EQUIPMENT SHALL BE IN STRICT ACCORDANCE WITH THE NATIONAL SANITATION FOUNDATION (N.S.F.) AND IN COMPLIANCE WITH STATE & LOCAL CODES.

ALL DIMENSIONS ARE FROM FINISHED SURFACES OR CENTER LINE OF COLUMNS TO CENTER LINES OF PLUMBING ROUGH-IN SERVICE LOCATIONS. ALL WRITTEN DIMENSIONS ARE TO BE CONSIDERED CORRECT AND DRAWINGS ARE NOT TO BE SCALED.

PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY CONTROLS, VALVES, REGULATORS, TRIM, TRAPS, TAILPIECES, STRAINERS, BACK-FLOW PREVENTION DEVICES AND ANY OTHER DEVICES REQUIRED FOR A PROPER INSTALLATION. P.C. SHALL COORDINATE AND MAKE ALLOWANCES SO NOT TO INTERFERE WITH THE OPERATION OF THE FOOD SERVICE EQUIPMENT PROVIDED.

PLUMBING CONTRACTOR SHALL INSTALL AND INTERCONNECT ALL PLUMBING COMPONENTS, ACCESSORIES AND SYSTEMS PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR. P.C. TO FLUSH OUT ALL FOREIGN MATTER FROM LINE STRAINERS, FAUCET AERATORS, ETC. PRIOR TO FINAL CONNECTIONS.

PLUMBING CONTRACTOR TO CONCEAL WATER LINES WHENEVER POSSIBLE. EXTERNAL WALLS WATER LINES SHALL BE STUBBED UP ALONG THE INTERIOR FACE OF THE WALL TO AVOID POTENTIAL FREEZING UNLESS OTHERWISE NOTED.

PLUMBING CONTRACTOR TO VERIFY ALL WATER PRESSURE REQUIREMENTS FOR EACH EQUIPMENT AND PROVIDE CONTROL DEVICES FOR PROPER WATER PRESSURE AND OPERATION OF EQUIPMENT AS SPECIFIED BY THE MANUFACTURER.

PLUMBING CONTRACTOR TO PROVIDE AND RUN ALL INDIRECT WASTE FROM KITCHEN EQUIPMENT TO FLOOR DRAINS. INDIRECT DRAIN FOR THE WALK-IN COOLER AND FREEZER TO BE RUN WITH A ¼" PER FOOT SLOPE AND WILL HAVE A "P" TRAP ON THE OUTSIDE OF THE WALK-IN AT THE DRAIN LOCATION.

PLUMBING CONTRACTOR TO VERIFY ALL REQUIREMENTS FOR ITEMS THAT ARE EXISTING, BY OWNER, BY VENDOR, N.I.C., AND BY OTHERS. P.C. TO PROVIDE ALL P.V.C. LINES WITH SWEEP ELS FOR BEVERAGE LINES AND TO VERIFY SIZE AND LOCATIONS WITH THE GENERAL CONTRACTOR.

PLUMBING CONTRACTOR TO PROVIDE AND INSTALL GREASE INTERCEPTORS, FLOOR DRAINS, FLOOR SINKS, TAILPIECES, TRAPS, SHUT-OFFS, LOOP VENTS AS REQUIRED AND TO COORDINATE ALL OF THESE ITEMS WITH THE FOOD SERVICE EQUIPMENT CONTRACTOR.

FLOOR DRAINS SHOWN ARE FOR THE FOOD SERVICE EQUIPMENT ONLY. FLOOR DRAINS REQUIRED FOR GENERAL CLEANING AND CODE REQUIREMENTS TO BE ADDITIONAL. P.C. TO VERIFY LOCATIONS OF ADDITIONAL FLOOR DRAINS WITH THE GENERAL CONTRACTOR. TO VERIFY LOCATIONS OF ADDITIONAL FLOOR DRAINS WITH THE GENERAL CONTRACTOR.

FLOORS IN KITCHEN AND SERVING AREAS TO BE "TRANSIT LEVEL". DO NOT SLOPE FLOOR TO FLOOR DRAINS IN KITCHEN AND SERVING AREAS.

ALL FLOOR SINKS TO BE MOUNTED IN FLOOR SUCH THAT THE TOP OF THE RIM WILL BE FLUSH WITH FINISHED FLOOR ELEVATION. FLOOR SINKS ALSO TO SERVE AS AREA FLOOR DRAINS IF NEED BE.

PLUMBING CONTRACTOR TO INSTALL F.S.E.C. FURNISHED MECHANICAL GAS SHUT-OFF VALVE IN ACCESSIBLE LOCATION PRIOR TO BRANCHING GAS SUPPLY TO COOKING EQUIPMENT.

THIS DRAWING HAS BEEN PREPARED FROM THE ACTUAL ARCHITECTURAL WALL LAYOUT DRAWINGS. PLUMBING CONTRACTOR SHALL ALERT THE GENERAL CONTRACTOR ON SITE OF ANY DISCREPANCIES FOUND BETWEEN THIS DRAWING AND THE ACTUAL FIELD CONDITIONS.

GAS ROUGH-IN SCHEDULE

ITEM	DESCRIPTION	GAS SIZE	GAS BTU	GAS AFF	NOTES
G20	EXHAUST HOOD SYSTEM			ROOF	NIKEC; VERIFY REQUIREMENTS
G21	CONVECTION OVEN	¾"	70,000	16"/48"	TWO CONNECTIONS; ONE EACH HEIGHT
G22	FRYER	¾"	90,000	16"	
G24	HOTPLATE	¾"	198,000	36"	
G25	GRIDDLE	¾"	90,000	36"	

PLUMBING ROUGH-IN SCHEDULE

ITEM	DESCRIPTION	WATER HW	WATER CW	WATER AFF	WASTE CONNECTION TYPE	WASTE SIZE	WASTE AFF	NOTES
P11A	WORKTABLE w/SINK	½"	½"	14"				
P11B					DIRECT	1½"	16"	
P11C					INDIRECT	1½"	FS	
P15A	WORKTABLE w/SINK	½"	½"	14"				
P15B					DIRECT	1½"	16"	
P32A	HAND SINK	½"	½"	20"				
P32B					DIRECT	1½"	20"	
P41A	MOP SINK	½"	½"	36"				
P41B					DIRECT	2"	23¾"	
P55A	ICE MAKER		⅜"	20"				VERIFY IF FILTER AND CONNECTION SHOULD BE ABOVE OR BELOW COUNTER. THRU FILTER.
P55B					INDIRECT	¾"	FS	
P56A	SODA DISPENSER		⅜"	20"				VERIFY IF FILTER AND CONNECTION SHOULD BE ABOVE OR BELOW COUNTER. THRU FILTER. NIKEC; VERIFY REQUIREMENTS.
P56B					INDIRECT	¾"	FS	
P57	COFFEE		½"	20"				VERIFY IF FILTER AND CONNECTION SHOULD BE ABOVE OR BELOW COUNTER. THRU FILTER. NIKEC; VERIFY REQUIREMENTS.
P58	JUICE DISPENSER		½"	20"				VERIFY IF FILTER AND CONNECTION SHOULD BE ABOVE OR BELOW COUNTER. THRU FILTER. NIKEC; VERIFY REQUIREMENTS.
P60	DROP-IN HOT				INDIRECT	¾"	FS	
P61	DROP-IN COLD				INDIRECT	¾"	FS	
P65A	3-COMP/DISHTABLE	½"	½"	STUB				
P65B					INDIRECT	1½"	FS	
P66A	DISHMACHINE		¾"	16"				
P66B					INDIRECT	1½"	FS	
P68A	SOILED DISHTABLE	½"	½"	14"				
P68B					INDIRECT	1½"	FS	
P85	WALK-IN COOLER/FREEZER				INDIRECT	¾"	FD	

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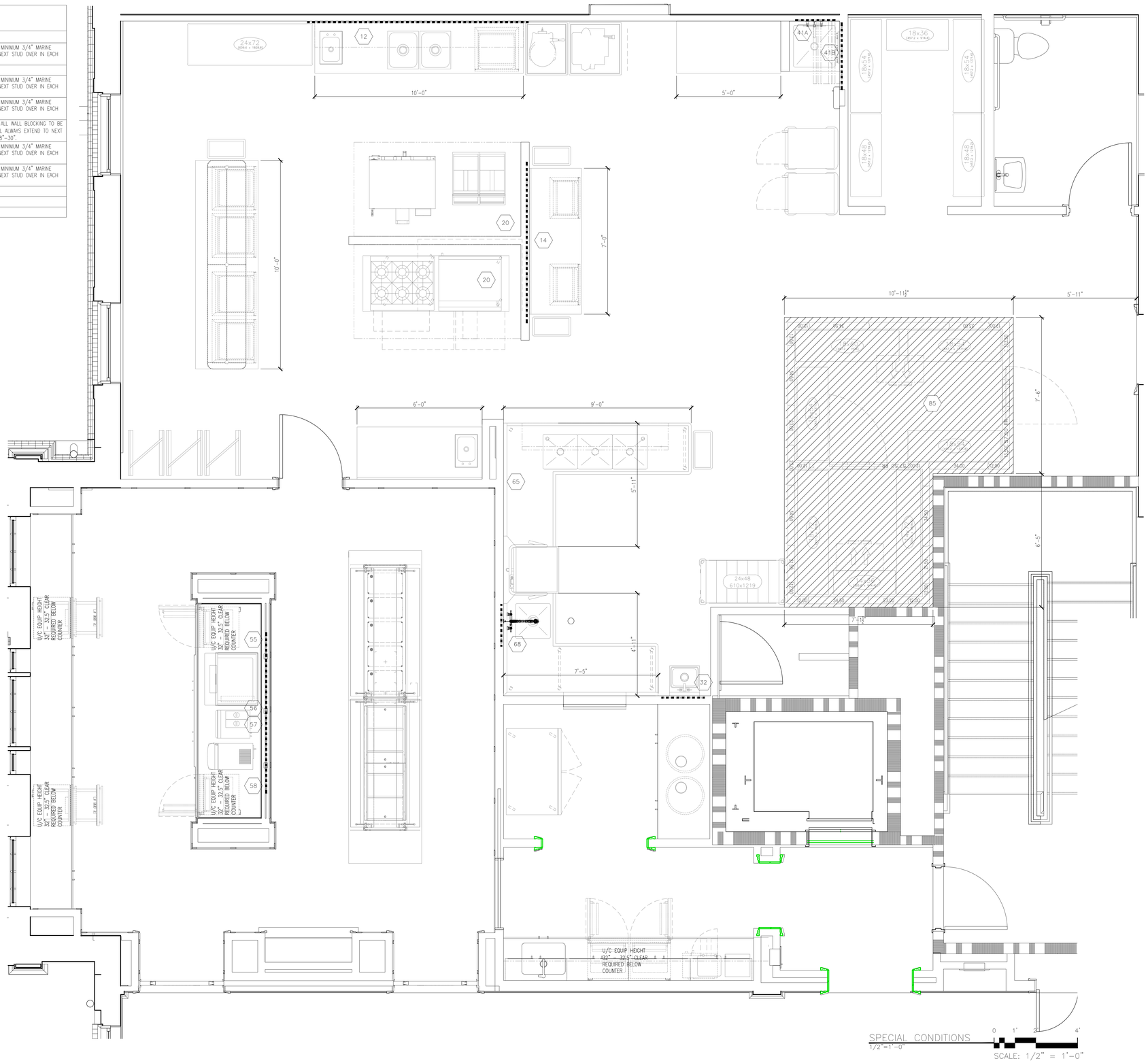
SPECIAL CONDITIONS

ITEM	DESCRIPTION	NOTES
12, 14, 41B	WALL SHELF	PROPERLY REINFORCE ALL WALLS TO SUPPORT ALL WALL AND SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION. @ 42"–72" A.F.F.
20	EXHAUST HOOD	BOX OUT FOR EXHAUST HOOD
32	HAND SINK	PROPERLY REINFORCE ALL WALLS TO SUPPORT ALL WALL AND SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION. HAND SINK @ 24"–58" A.F.F.
41A	MOP SINK	PROPERLY REINFORCE ALL WALLS TO SUPPORT ALL WALL AND SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION. @ 24"–54" A.F.F.
55, 56, 57, 58	WATER FILTER	PROPERLY REINFORCE CABINETRY OR BELOW COUNTER WALLS TO SUPPORT ALL WALL AND SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION. VERIFY IF WATER FILTER TO BE LOCATED ABOVE OR BELOW COUNTER. BLOCK @ 18"–30".
65	DISH RACK	PROPERLY REINFORCE ALL WALLS TO SUPPORT ALL WALL AND SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION. @ 56"–80" A.F.F.
68	PRE-RINSE FAUCET	PROPERLY REINFORCE ALL WALLS TO SUPPORT ALL WALL AND SUPPORTED EQUIPMENT. ALL WALL BLOCKING TO BE MINIMUM 3/4" MARINE GRADE PLYWOOD. WALL BLOCKING LENGTHS SHOWN ARE MINIMUM AND WALL BLOCKING SHALL ALWAYS EXTEND TO NEXT STUD OVER IN EACH DIRECTION. @ 42"–66" A.F.F.
85	WALK-IN COOLER/FREEZER	PREPARE FLOOR FOR WALK-IN COOLER. SEE MANUFACTURER'S DRAWINGS.
	WALK-IN COOLER/FREEZER	DRAIN LINE TO PENETRATE THRU WALL @ 8" A.F.F. & TERMINATE OVER F.D. W/PTRAP BY P.C.

SYMBOL LEGEND

- - - - - - - -	INDICATES WALL BACKING



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APPROVED AS DRAWN WITH NO CHANGES
APPROVED AS NOTED WITH CHANGES
RESUBMIT WITH CORRECTIONS

SIGNATURE

DATE

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ALPHA PHI
ARKANSAS
15' ISLAND
HOT & COLD BAR

REF. # 45999-01MOD

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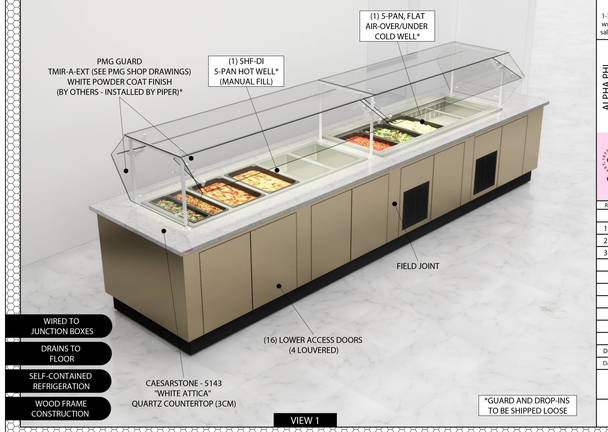
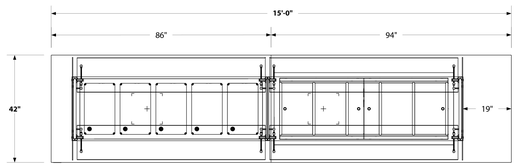
1	NTE 10/2/2025	
2	NTE 10/3/2025	
3	NTE 12/2/2025	

Drawn By:NTE
Date: 9-8-2025
Sheet No. 1 of 8
Project # 46886-01

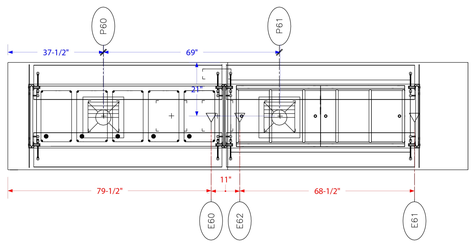




1 Plan View
Scale: 1/4" = 1'-0"



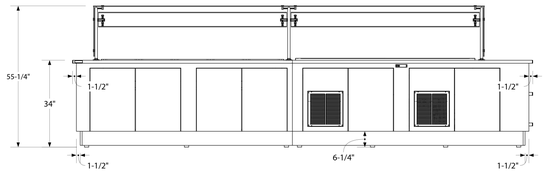
2 Plan View - Utility View
Scale: 1/4" = 1'-0"

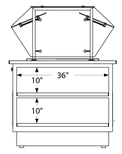


DRAIN STUB-UPS	
P60	HOT PAN DROP-IN
P61	COLD PAN DROP-IN

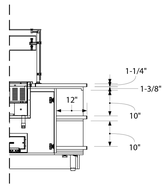
JUNCTION BOXES	
E60	HOT PAN DROP-IN
E61	COLD PAN DROP-IN
E62	SNEEZE GUARD

3 Front View
Scale: 1/4" = 1'-0"



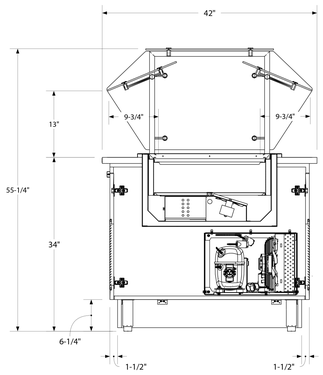


4 Right View
Scale: 1/2" = 1'-0"



5 Recess Section View
Scale: 1/2" = 1'-0"

6 Section View
Scale: 3" = 1'-0"



FINISHES

CABINET EXTERIOR:	WILSONART - L6442 "SATIN BRUSHED PALLADIUM"
CABINET EXT. BACK:	WILSONART - L6442 "SATIN BRUSHED PALLADIUM"
CABINET INTERIOR:	WHITE
DISPLAY INT. LEFT:	TEMPERED GLASS
DISPLAY INT. RIGHT:	TEMPERED GLASS
DISPLAY INT. BACK:	N/A
COUNTERTOP:	CAESARSTONE - 5143 "WHITE ATTICA (3CM)
BASE:	ADJUSTABLE LEGS WITH REMOVABLE BLACK KICK PLATE
CANOPY:	WHITE POWDER COAT (PMG TMIR-A-EXT)
DOORS:	WILSONART - L6442 "SATIN BRUSHED PALLADIUM"
LOUVERS:	BLACK
ACCENT STRIP:	N/A
BUMPER(S):	N/A
CORNER GUARDS:	N/A

COUNTERTOP



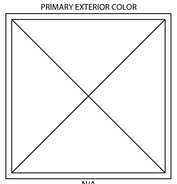
CAESARSTONE
5143
"WHITE ATTICA"
(3CM)

PRIMARY EXTERIOR COLOR



WILSONART
L6442
"SATIN BRUSHED PALLADIUM"

PRIMARY EXTERIOR COLOR



N/A

ELECTRICAL REQUIRED (WIRED TO J-BOXES) 46886-01						
(QTY) ITEM DESCRIPTION	MFR	MODEL #	VOLTAGE	L-1 AMPS	L-2 AMPS	J-BOX NUMBER
(1) 5 PAN HOT WELL	PIPER	5HF-DI	208	24	24	E60
(1) 5 PAN COLD WELL	PIPER	AOP-5	120	9.1		E61
(2) CANOPYS	PMG	146-158"	120	1		E62

REFRIGERATION SPECS						
TYPE	MFR	MODEL #	BTU/hr	TOTALS		
5 Pan Air Over/Under	Piper	N/A	2556	2556		

ALPHA PHI
FAYETTEVILLE, AR

PROJECT NO: A25-

Lancaster Schert Equipment LLC
P.O. BOX 273
DANVILLE, IN 46122

DATE: 04.25.2025
SCALE: AS NOTED
DRAWN BY: LMJ

REVISIONS	
BY:	DATE:
LMJ	05.22.2025
LMJ	06.06.2025
LMJ	06.13.2025
LMJ	08.05.2025
LMJ	10.07.2025
LMJ	12.04.2025
LMJ	12.16.2025

SHEET
FS5.1

Submittal Drawings Cover Page

Premier Metal & Glass' (PMG) products are made to order. PMG will manufacture this custom project based on this set drawings. Please provide signature or initials as indicated on each page of these submittal drawings. All approvals must be received prior to release to fabrication.

This checklist is intended to provide the contractor a guide to ensure proper fit and finish.

Please Initial each item once verified:

_____ All dimensions have been verified for proper fit and compliance.

_____ The mounting hardware depicted is appropriate. Verify substrate and field conditions.

_____ Electrical specification (voltage, amp, watt) and wire chase locations have been verified.

_____ Finish for the metal hardware and tubing is correct.

Assembled vs. Knocked Down: Projects involving electrical components are shipped assembled where possible. Projects not requiring electrical components are shipped knocked down. Contact factory to make other arrangements.

CAD/PDF layouts: If available, please provide CAD files of layout to expedite accuracy of the submittal drawings. PMG will provide in-situ CAD drawings of its products on customer supplied CAD layouts upon request. Customer supplied PDF layouts can be used in lieu of CAD layouts for center line dimensions only, not for in-situ layouts.

Code Compliance: PMG's default design for food shields complies with **NSF/ANSI 2-2021** unless otherwise directed by the contractor. Local codes, which are determined by the local Authority Having Jurisdiction where the food shield is to be installed, will have the final determination of code compliance. It is the contractor's responsibility to ensure compliance to the codes set by the local Authority Having Jurisdiction.

PMG
WWW.PMG-INC.COM
800-251-5800 | 800-251-2515
10 Enterprise Blvd. SW
Atlanta, GA 30336
© 2024 PMG Ventures, Inc.

FOR NSF/UL COMPLIANCE SEE EACH UNIT'S RESPECTIVE DRAWING PAGE

ALPHA PHI - FAYETTEVILLE, AR

LANCASTER SCHERT EQUIPMENT,LLC

COVER PAGE

INFO

FINISH: WHITE POWDER COAT (TBD)

DATE	10/2/25	TOL:	± 1/16"
SHEET	1 OF 4	DWR	DMAN
PROJ#	LANCSCHERT.157896		

REVISIONS

DATE	BY	-

Purchaser's signature required prior to fabrication. The information contained herein is the specifications contained hereon, representing the product to the specifications contained hereon, representing the product to the specifications contained hereon, representing the product to

WALK - IN SPECIFICATIONS

LISTED

COMBO

OVERALL SIZE: 10'-7 1/2" X 13'-6" X 8'-6 1/4" (INDOOR)

PANELS
FOAMED IN PLACE URETHANE FOAM 4"

EXTERIOR FINISH
WALL: ALUMINUM - NATURAL EMBOSSED - .040
TOP: GALVALUME - EMBOSSED 26 GA
FLOOR: GALVALUME - EMBOSSED 26 GA

INTERIOR FINISH
WALL: ALUMINUM - NATURAL EMBOSSED - .040
TOP: ALUMINUM - EMBOSSED WHITE .040

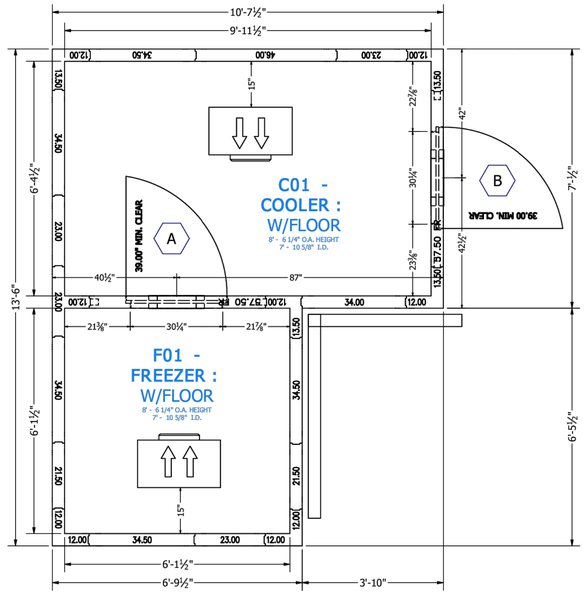
FLOOR TYPE
F01 FREEZER :
STANDARD 1000# ERA
ALUMINUM - DIAMOND TREAD .100

C01 COOLER :
STANDARD 1000# ERA
ALUMINUM - DIAMOND TREAD .100

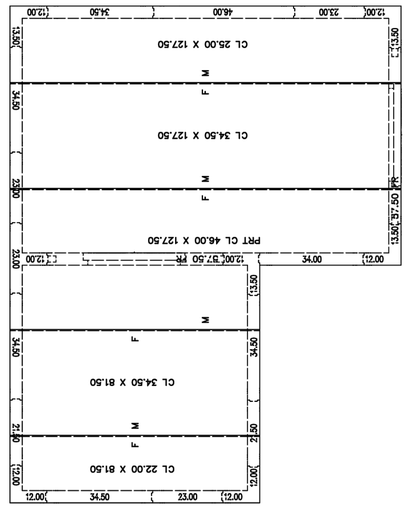
WALK-IN ACCESSORIES
(1) ANGLE BOX MODIFICATION
(2) LIGHT FIXTURE - KASON 1809 LED 115V/220V
(3) TRIM ANGLED 3" X 3" X 8FT ALUMINUM EMBOSSED .040

REFRIGERATION
F01 FREEZER :
KPC175ALZ0P-3S, R454A, VOLTS: 208-230-60-3,BTU:5720
KEL16-058-ZEC-PR-A VOLTS: 208-230-60-1,BTU:6148
TEMP: WALK-IN -10, AMBIENT TEMP: 100

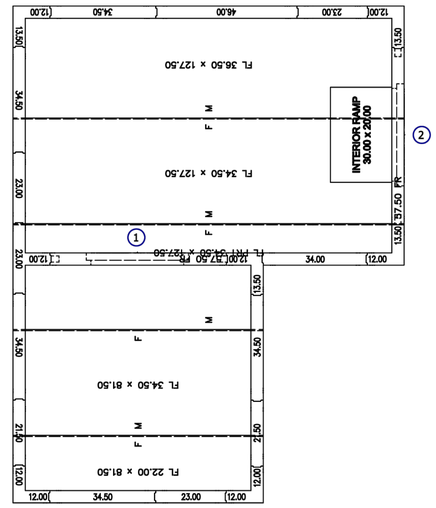
C01 COOLER :
KPC50AMZ0P-2S, R454A, VOLTS: 208-230-60-1,BTU:7050
KAM16-081-1EC-PR-A VOLTS: 115-60-1,BTU:7771
TEMP: WALK-IN 35, AMBIENT TEMP: 100



WALLS LAYOUT



CEILINGS LAYOUT



FLOORS LAYOUT

⚠ATTENTION

1. **SUBMITTAL DRAWING NOT INTENDED FOR INSTALLATION.**
AS-BUILT DRAWING FOR INSTALLATION WILL BE AVAILABLE AFTER ORDER IS PLACED. HARD COPY OF AS-BUILT DRAWING WILL BE IN HARDWARE BOX WITH WALK-IN SHIPMENT TO JOBSITE. ALL AS-BUILT DRAWINGS SHOW PART NUMBERS AND ID LABELS ON PLAN VIEWS.
2. ALL WALK-INS ARE DESIGNED FOR INDOOR APPLICATION UNLESS NOTED OTHERWISE
3. PANELS WITH NON-TEXTURED AND/OR NO-PROFILE PANEL FINISHES (SMOOTH FINISHES) ON THE EXTERIOR AND INTERIOR FACES MAY EXHIBIT "OIL CANNING" AND FLATNESS IMPERFECTIONS ON THE SURFACE. OUR STANDARD PANELS HAVE A STUCCO EMBOSSED TEXTURE ON BOTH FACES THAT HELPS TO REDUCE "OIL CANNING" AND ANY OTHER IRREGULARITIES IN THE EXPOSED SURFACE. PLEASE BE AWARE OF THIS POTENTIAL SITUATION IN YOUR SPECIFICATION PROCESS. SUCH "OIL CANNING" AND FLATNESS ISSUES ARE TYPICAL AND ARE NOT COVERED UNDER STANDARD WARRANTIES.
4. PENETRATIONS AND SEALING OF ARE THE RESPONSIBILITY OF OTHERS
5. ALLOW 2" MINIMUM CLEARANCE WITH AIRFLOW OF 5 CFM PER 100 SQ FT AROUND ENTIRE PANEL SURFACES. INDOOR WALK-INS REQUIRE A 75°F AMBIENT AND 55% RELATIVE HUMIDITY OR LESS AROUND THE EXTERIOR OF THE WALK-IN.
6. GENERAL CONTRACTOR TO REFER TO DESIGN AND SPECIFICATION MANUAL FOR FLOOR DETAIL INFORMATION
7. QUARRY TILE OR CONCRETE FLOOR APPLICATIONS: METAL PANEL FACING MAY BE SUSCEPTIBLE TO STAINING DUE TO EXCESSIVE MOISTURE CREATED BY THE HYDRATION OF CONCRETE TYPE MATERIALS. IT IS ABSOLUTELY NECESSARY THAT EACH ROOM BE PROPERLY VENTILATED. SPECIAL PRECAUTIONS MUST ALSO BE TAKEN WHEN USING MURIATIC ACID DUE TO EFFECTS HYDROCHLORIC FUMES HAVE ON METAL MATERIALS
8. PANEL LAYOUT MAY CHANGE BASED ON OPTIMAL MANUFACTURING STANDARDS
9. WALK-IN TOP IS NOT DESIGNED FOR FOOT TRAFFIC OR STORAGE UNLESS NOTED OTHERWISE
10. IF CONDENSING UNIT IS LOCATED IN THE INTERIOR OF BUILDING A MINIMUM OF 24" OF CLEARANCE IS REQUIRED AROUND TOP AND SIDES
11. FLOOR, CURB, AND PIT DETAILS ARE FOR GENERAL REFERENCE ONLY. THESE DRAWINGS SHOULD NOT BE USED OR INCORPORATED IN THE DESIGN OR PREPARATION OF THE INSULATED FLOOR, SUB-SLAB OR CURBS, WITHOUT HAVING THE DESIGN REVIEWED BY A QUALIFIED ENGINEER. ALL FOOTINGS, FOUNDATION WALLS AND CONCRETE WEAR SLABS ARE THE RESPONSIBILITY OF THE BUILDING ENGINEER OR ARCHITECT.
12. THE FOAM PLASTIC USED IN THIS PRODUCT COMPLIES TO THE IBC SECTION 2603 AS FOLLOWS: FLAME SPREAD RATING: 20; SMOKE DEVELOPED RATING: 250 - 400; FLASH IGNITION TEMPERATURE RATING: 915°F; SPONTANEOUS IGNITION TEMPERATURE RATING: 950°F.
13. KOLPAK COMPLIES WITH INTERNATIONAL ENERGY CONSERVATION CODE (IECC) SECTION C403.11, US DEPARTMENT OF ENERGY, AND NRCAN. R-VALUES ARE ASTM C518 TESTED. COOLER R-VALUES ARE R-29 FOR 4" THICK, R-36 FOR 5" THICK, AND R-44 FOR 6" THICK PANELS. FREEZER R-VALUES ARE R-32 FOR 4" THICK, R-40 FOR 5" THICK, R-48 FOR 6" THICK PANELS, AND R-29 FOR 4" FLOORS.
14. FLOORS NOT DESIGNED FOR WET MOPPING, PALLET JACKS, OR FORKLIFT TRAFFIC.
15. KOLPAK AND HARFORD WALK-INS ARE COMPLIANT WITH UL STANDARDS. THE PANELS ARE UL723, UL FILE LISTING R8160. THE DOORS ARE UL471. UL FILE LISTING E461440.
* FOR R-404A AND R-448A, STANDARD EVAPORATOR COILS ARE UL412 AND STANDARD CONDENSING UNITS ARE UL1995.
* FOR A2Ls, STANDARD REMOTE CONDENSING UNITS, REMOTE EVAPORATORS, AND SELF-CONTAINED UNITS ARE UL 60335-2-89.

FOR APPROVAL

YOU MUST REVIEW ALL NOTES, DETAILS, DIMENSIONS, FINISHES, DOORS SIZES, LOCATIONS AND SWINGS

KOLPAK INSTALLATION MANUAL

☐ **APPROVAL**- NO CHANGE REQUIRED, MANUFACTURE AS DRAWN.

☐ **APPROVED AS NOTED**- MAKE REQUIRED CHANGES AND MANUFACTURE AS DRAWN.

☐ **NOT APPROVED**- DESIGN CHANGES REQUIRE DRAWING REVISION AND RESUBMISSION.

DATE:_____ BY:_____

DRAWING #: A275643R1
UNIT #: 001
ORDER #:

KOLPAK
2015 Vanguard Drive, Rogers, AR 72756
(800) 626-5525 FAX (800) 626-5526

ALPHA PHI - FAYETTEVILLE, AR
FAYETTEVILLE,AR 72701 USA

LANCASTER SCHERT EQUIPMENT LLC

DRAWN BY:	DATE:	CHECK BY:	DATE:	QUOTE REVISION	DATE:
DJB	10.10.2025				

SHEET #
AD-1 of 2

ALPHA PHI
FAYETTEVILLE, AR

PROJECT NO: A25-

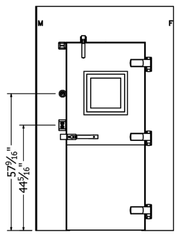
Lancaster Schert Equipment LLC
P.O. BOX 273
DANVILLE, IN 46122

DATE: 04.25.2025
SCALE: AS NOTED
DRAWN BY: LMJ

REVISIONS

BY:	DATE:
LMJ	05.22.2025
LMJ	06.06.2025
LMJ	06.13.2025
LMJ	08.05.2025
LMJ	10.07.2025
LMJ	12.04.2025
LMJ	12.16.2025

SHEET
FS6.1



FRAME:
RECESSED 0" WITH 0" LEVELING SAND AND 0" TILE AND GROUT
EXT: ALUMINUM - NATURAL EMBOSSED - .040
INT: ALUMINUM - NATURAL EMBOSSED - .040

PLUG:
EXT: ALUMINUM - NATURAL EMBOSSED - .040
EXT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH
INT: ALUMINUM - NATURAL EMBOSSED - .040
INT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH

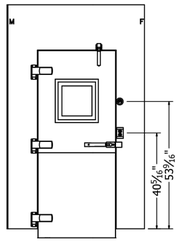
HARDWARE AND ACCESSORIES:
(1) 115/60/1 ELECTRICAL
(1) DOOR CLOSER - KASON 1094 (STD)
(1) HANDLE - KASON 27C BRUSHED CHROME
(1) HEATER WIRE, 5 WATT / FT
(3) HINGE - KASON 1346 BRUSHED CHROME
ADJUSTABLE / SPRING ASSISTED (STD)
(1) LIGHT FIXTURE - KASON 1803 LED W/BULB,
GLOBE AND NIGHTLIGHT 120V 50/60HZ (STD)
(1) SWITCH - PILOT LIGHT INCLUDED 120/230V 50/60HZ (STD)
(1) THERMOMETER - 2 INCH DIAL W/6' LEAD (STD)
(1) THRESHOLD, FRP
(1) VENT - PRESSURE RELIEF, HEATED 120V 50/60HZ (STD)
(1) VIEWPORT - 14X14 FREEZER, HEATED FRAME
AND GLASS 4IN THICK 120V 50/60HZ

OFFSET 0.25"
30.00" X 78.00"
57.50" X 94.25"

DW-1

A

DOOR ELECTRICAL INFORMATION				
DESCRIPTION	QTY	VOLT	AMP	AMP LOAD
HEATED AIR VENT	1	115	0.04	0.04
HEATED VIEWPORT	1	115	0.45	0.45
HEATER WIRE	1	115	0.8	0.8
LED LIGHT	1	115	0.1	0.1
115 VOLT, SINGLE PHASE, 60 Hz, TOTAL DOOR AMPS:				1.39



FRAME:
RECESSED 0" WITH 0" LEVELING SAND AND 0" TILE AND GROUT
EXT: ALUMINUM - NATURAL EMBOSSED - .040
INT: ALUMINUM - NATURAL EMBOSSED - .040

PLUG:
EXT: ALUMINUM - NATURAL EMBOSSED - .040
EXT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH
INT: ALUMINUM - NATURAL EMBOSSED - .040
INT: KICKPLATE, ALUM .063 DIAMOND TREAD 36" HIGH

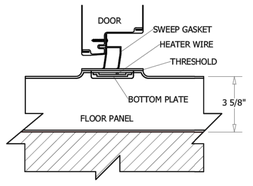
HARDWARE AND ACCESSORIES:
(1) 115/60/1 ELECTRICAL
(1) DOOR CLOSER - KASON 1094 (STD)
(1) HANDLE - KASON 27C BRUSHED CHROME
(1) HEATER WIRE, 1 WATT / FT
(3) HINGE - KASON 1346 BRUSHED CHROME
ADJUSTABLE / SPRING ASSISTED (STD)
(1) LIGHT FIXTURE - KASON 1803 LED W/BULB,
GLOBE AND NIGHTLIGHT 120V 50/60HZ (STD)
(1) RAMP INTERIOR 30X20
(1) SWITCH - PILOT LIGHT INCLUDED 120/230V 50/60HZ (STD)
(1) THERMOMETER - 2 INCH DIAL W/6' LEAD (STD)
(1) THRESHOLD, STAINLESS STEEL 14 GA
(1) VIEWPORT - 14X14 COOLER, HEATED FRAME
4IN THICK 120V 50/60HZ

OFFSET 0.25"
30.00" X 78.00"
57.50" X 94.25"

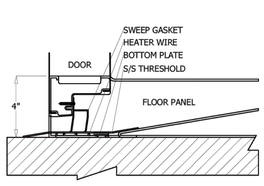
DW-2

B

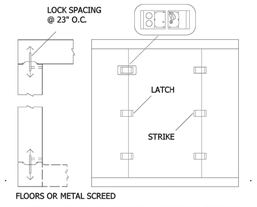
DOOR ELECTRICAL INFORMATION				
DESCRIPTION	QTY	VOLT	AMP	AMP LOAD
HEATED VIEWPORT	1	115	0.22	0.22
HEATER WIRE	1	115	0.3	0.3
LED LIGHT	1	115	0.1	0.1
115 VOLT, SINGLE PHASE, 60 Hz, TOTAL DOOR AMPS:				0.62



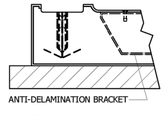
1 DETAIL - 4IN PRT FLOOR-HTR WIRE
Scale: NTS



2 DETAIL - 4IN FLOOR-RAMP
Scale: NTS

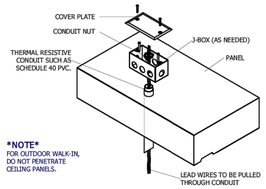


3 DETAIL - PANEL CONNECTION AT FLOORS OR METAL SCREEDS
Scale: NTS



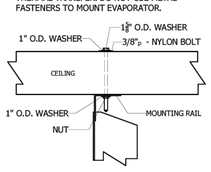
4 DETAIL - FOOT-LIGHT ROLLING CART FLOOR CONSTRUCTION
Scale: NTS

AT EVERY ENTRANCE CONDUIT, FORCE SEALANT AROUND THE EXTERIOR OF THE ELECTRICAL CONDUIT AND INSIDE THE CONDUIT AROUND THE WIRES. FAILURE TO ELIMINATE AIRFLOW IN THE CONDUIT WILL ALLOW MOISTURE TO DAMAGE ELECTRICAL COMPONENTS ESPECIALLY LIGHTS WHICH **WILL NOT BE COVERED UNDER WARRANTY.**



5 DETAIL - ELECTRICAL CONDUIT PENETRATION
Scale: NTS

NOTE:
REQUIRED FASTENERS SUPPLIED IN MOUNTING KIT.
KIT INCLUDES NYLON FASTENERS TO PREVENT THERMAL TRANSFER. DO NOT USE METAL FASTENERS TO MOUNT EVAPORATOR.



6 DETAIL - EVAP TO CEILING MOUNT
Scale: NTS

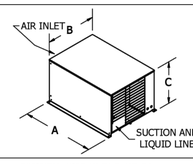
COMPARTMENT — CONDENSING UNIT

DESCRIPTION	TEMP F WI	QTY	MODEL#	REFRIGERANT	COMPRESSOR TYPE	DIMENSIONS L (A)	DIMENSIONS W (B)	DIMENSIONS H (C)	DIMENSIONS LBS	COMPRESSOR HP	COMPRESSOR RLA	COMPRESSOR LRA	COMPRESSOR V	COMPRESSOR HZ	COMPRESSOR Φ	CONDENSER FAN MTR FLA	CONDENSER FAN MTR V	CONDENSER FAN MTR Φ	TOTAL AMPS	MX AMP DISC	CONNECTIONS O.D. SUCT	CONNECTIONS O.D. LIQ	RCV CAP @ 90% FULL (lbs)
F01 FREEZER	-10	1	KPC175ALZOP-3S	R454A	SCROLL	33	25.5	19.25	177	1 3/4	7.4	58	208-230	60	3	1.1	208-230	1	8.7	15	7/8	3/8	10.4
C01 COOLER	35	1	KPC50AMZOP-2S	R454A	SCROLL	33	25.5	19.25	152	1/2	5.4	35.7	208-230	60	1	0.5	208-230	1	6	15	5/8	3/8	5.8

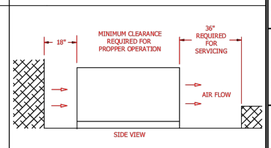
COMPARTMENT — UNIT COOLER

DESCRIPTION	TEMP F WI	QTY	MODEL # (DEFROST: A-AIR E-ELECTRIC)	REFRIGERANT	DIMENSIONS L (D)	DIMENSIONS W (E)	DIMENSIONS H (F)	DIMENSIONS LBS	FAN TOTAL AMPS	FAN V	HEATER TOTAL AMPS	HEATER V	HEATER Φ	CONNECTIONS O.D. SUCT	CONNECTIONS O.D. LIQ	CONNECTIONS O.D. DRAIN
F01 FREEZER	-10	1	KEL16-058-2EC-PR-A	R454A	27.125	15.5	16.75	47	0.5	208-230	6.6	208-230	1	5/8	3/8	3/4
C01 COOLER	35	1	KAM16-081-1EC-PR-A	R454A	27.125	15.5	16.75	47	0.8	115	0	N/A	0	5/8	3/8	3/4

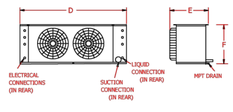
CONDENSING UNIT ASSEMBLY



CLEARANCE REQUIREMENT



EVAPORATOR - MODEL AM, EM, EL, AMB, ELB



DRAWING #: A275643R1
UNIT #: 001
ORDER #:

KOLPAK
2111 Comprehensive Drive, Aurora, IL 60505
(630) 851-7334 • (800) 635-7536

ALPHA PHI - FAYETTEVILLE, AR
FAYETTEVILLE,AR 72701 USA

LANCASTER SCHERT EQUIPMENT LLC

DRAWN BY:	DATE:	CHECK BY:	DATE:	QUOTE REVISION	DATE:
DJB	10/10/2025				

SHEET #
AD-2 of 2

ALPHA PHI
FAYETTEVILLE, AR

PROJECT NO: A25-

Lancaster Schert Equipment LLC
P.O. BOX 273
DANVILLE, IN 46122

DATE: 04.25.2025
SCALE: AS NOTED
DRAWN BY: LMJ

REVISIONS

BY:	DATE:
LMJ	05.22.2025
LMJ	06.06.2025
LMJ	06.13.2025
LMJ	08.05.2025
LMJ	10.07.2025
LMJ	12.04.2025
LMJ	12.16.2025

SHEET
FS6.2