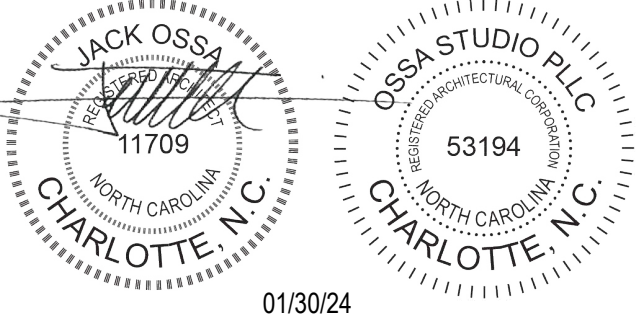




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01/30/24

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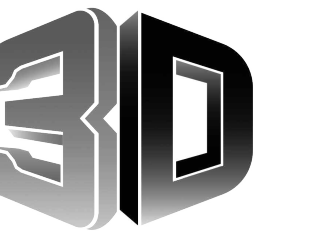
Civil Engineering
HILLIARD ENGINEERING, PLLC
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Structural Engineering
PROVIDENCE PARTNERS
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Mechanical, Electrical, Plumbing & Fire Protection
ENGINEERING
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704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
1 05/8/24	PERMIT REVIEW COMMENTS
2 10/14/24	RTAP NO. 1

Project Name



community church
making church come *alive*
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

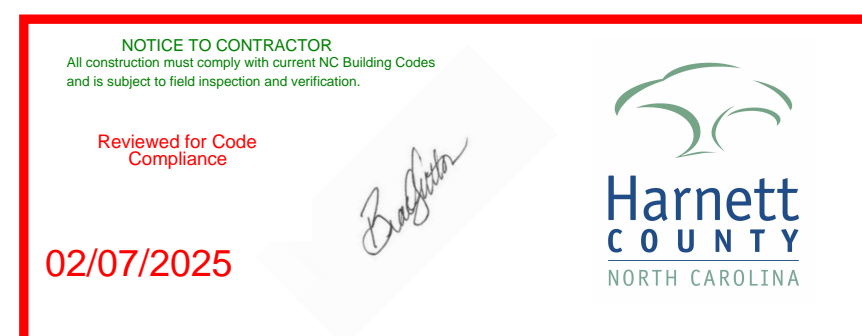
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Scale

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3D COMMUNITY CHURCH

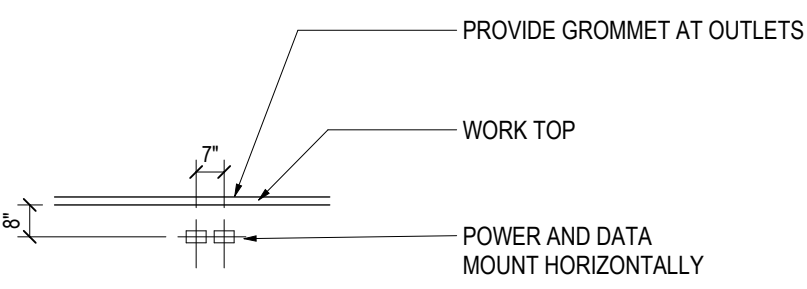
658 GRAHAM ROAD SANFORD NC 27311



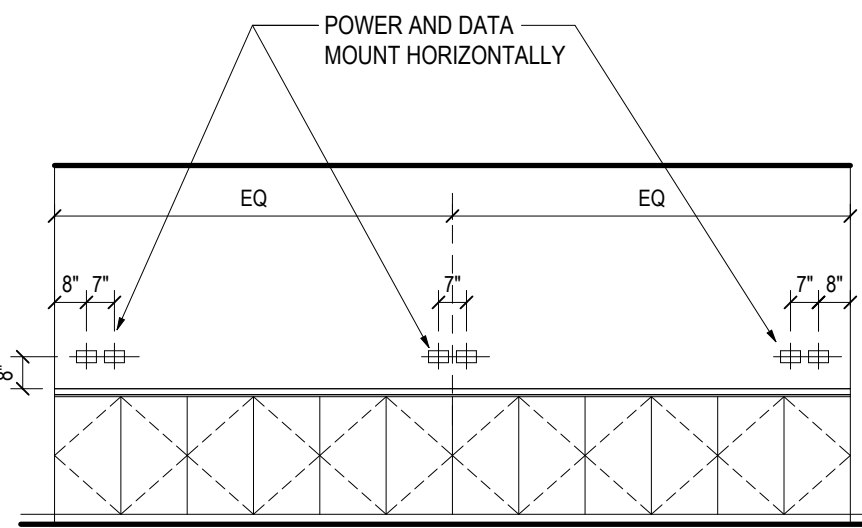
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10/14/24 RTAP NO. 1

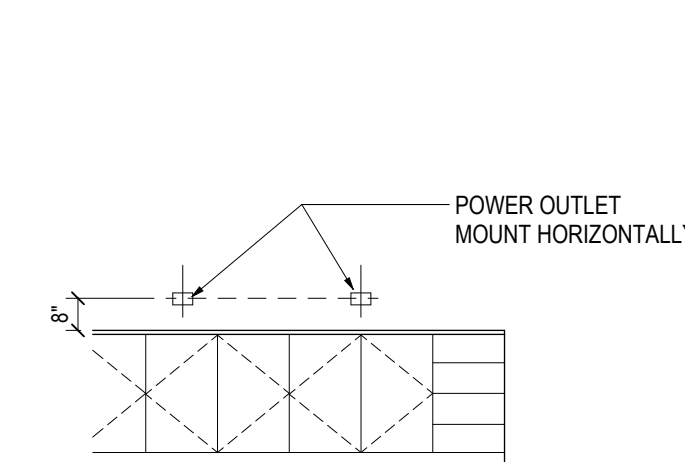
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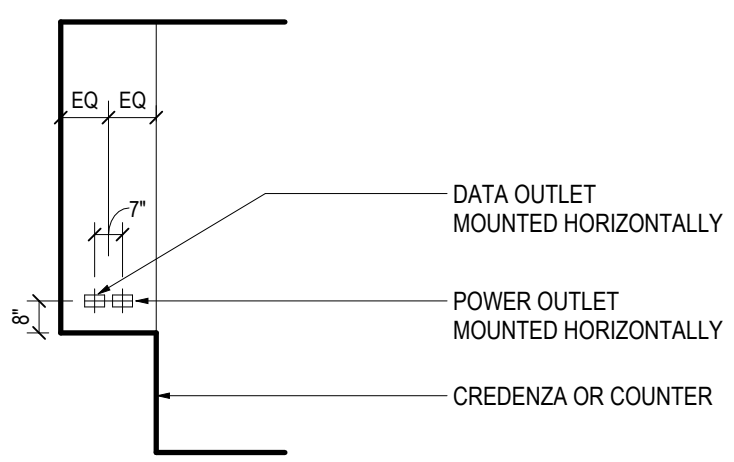
LOCATIONS AT WORK SURFACES OUTLETS



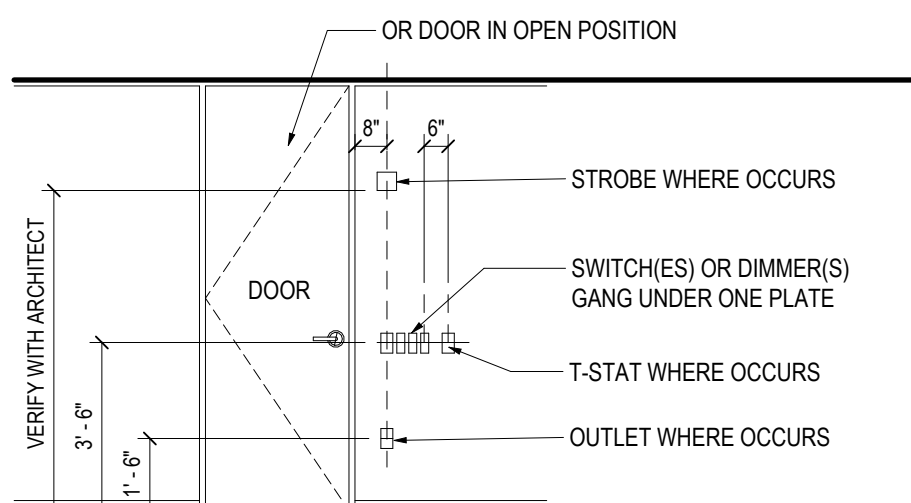
LOCATIONS AT MILLWORK COUNTERS OUTLETS



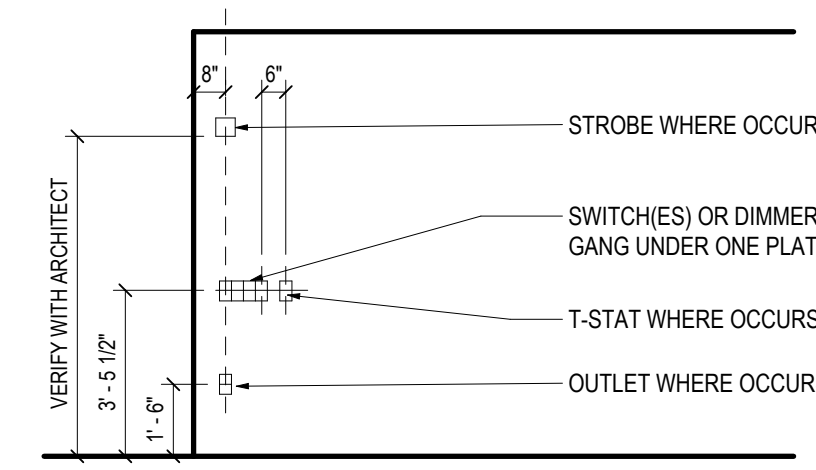
LOCATIONS AT MILLWORK COUNTERS OUTLETS



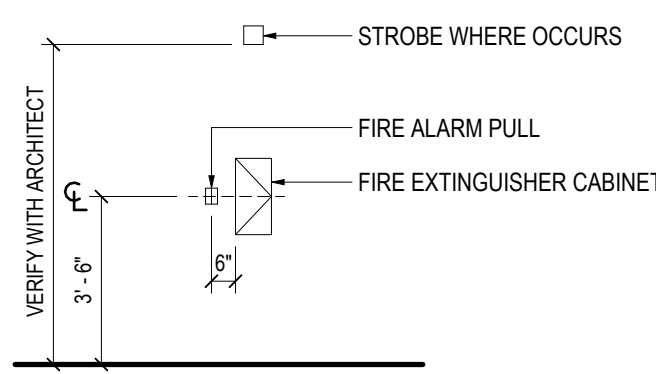
LOCATIONS AT CREDENZAS OR COUNTERS OUTLETS



LOCATIONS AT DOOR JAMBS SWITCH AND THERMOSTATS



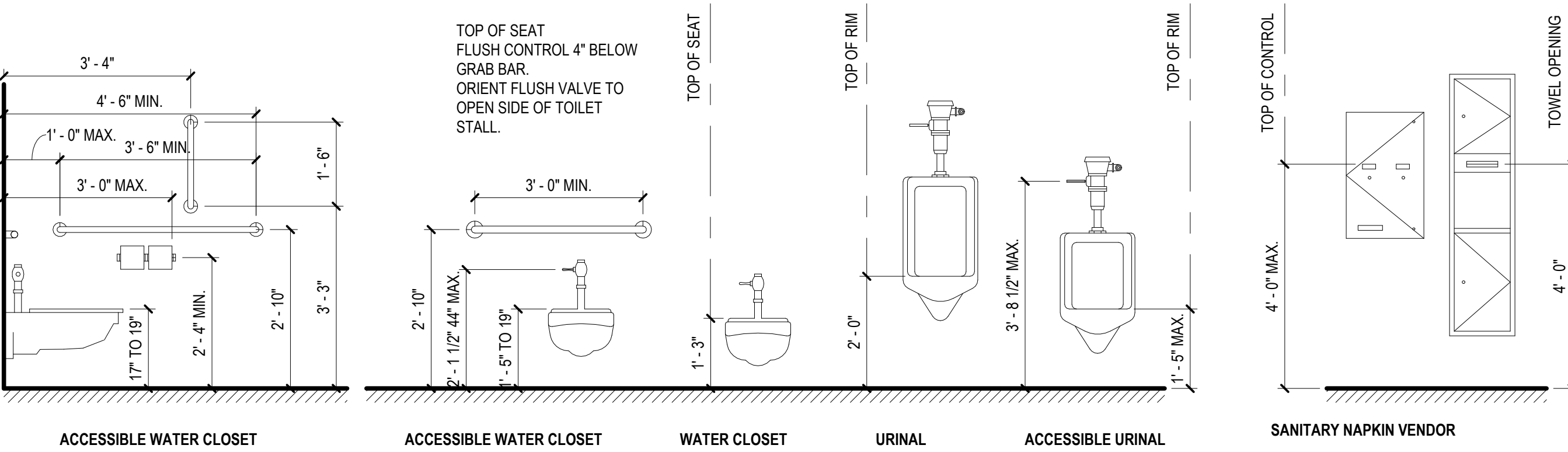
LOCATIONS AT CORNERS



LOCATIONS AT FIRE EXTINGUISHER CABINET STROBES AND FIRE ALARM PULLS

01 MOUNTING LOCATIONS

SCALE: 1/4" = 1'-0"



ACCESSIBLE WATER CLOSET

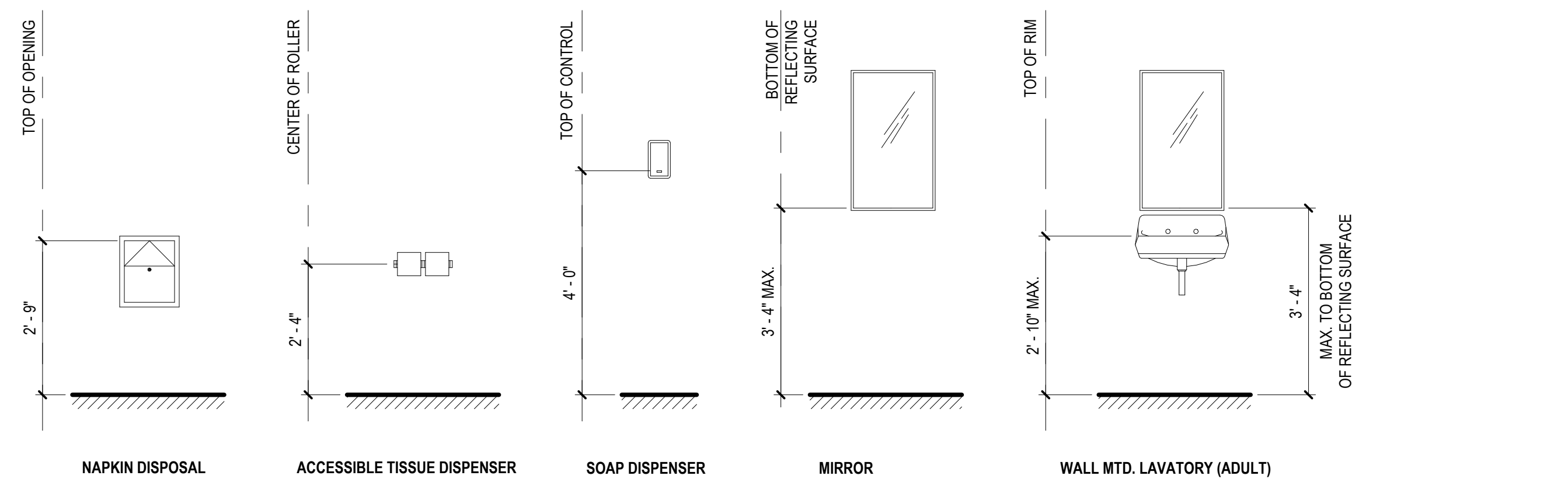
ACCESSIBLE WATER CLOSET

WATER CLOSET

URINAL

ACCESSIBLE URINAL

SANITARY NAPKIN VENDOR



NAPKIN DISPOSAL

ACCESSIBLE TISSUE DISPENSER

SOAP DISPENSER

MIRROR

WALL MTD. LAVATORY (ADULT)

GENERAL NOTES

1. COMPLY WITH CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS OF PUBLIC AUTHORITIES GOVERNING THE WORK.
2. OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
3. REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.
4. SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION.
5. COORDINATE WORK WITH THE OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF OPERATIONS AND OCCUPANTS.
6. OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
7. COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS.
8. MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH CODES AND ORDINANCES.
9. PROTECT AREA OF WORK AND ADJACENT AREAS FROM DAMAGE.
10. MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
11. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
12. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNLESS OTHERWISE NOTED. MAINTAIN DIMENSIONS MARKED "CLEAR" ALLOW FOR THICKNESS OF FINISHES.
13. COORDINATE AND PROVIDE BACKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO WALLS OR CEILINGS.
14. WHERE EXISTING ACCESS PANELS CONFLICT WITH CONSTRUCTION, RELOCATE PANELS TO ALIGN WITH AND FIT WITHIN NEW CONSTRUCTION.
15. UNDERCUT DOORS TO CLEAR TOP OF FLOOR FINISHES BY 1/4 INCH, UNLESS OTHERWISE NOTED.

FIRE DEPARTMENT NOTES

1. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 4-A WITHIN 75 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR, AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR OR BUILDING DEPARTMENT INSPECTOR.
2. PROVIDE EXIT SIGN WITH "E" LETTERS OVER REQUIRED EXITS, WHERE SHOWN ON DRAWINGS, AND ADDITIONAL SIGNS AS REQUIRED BY BUILDING DEPARTMENT INSPECTOR OR FIRE DEPARTMENT FIELD INSPECTOR. CONNECT EXIT SIGNS TO EMERGENCY POWER CIRCUITS. COMPLY WITH BUILDING CODES.
3. PROVIDE EMERGENCY LIGHTING OF ONE FOOT CANDELA AT FLOOR LEVEL. COMPLY WITH BUILDING CODES.
4. MAINTAIN AISLES AT LEAST 44" WIDE AT PUBLIC AREAS.
5. EVERY EXIT DOOR SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE. ALL NEW DOORS SHALL HAVE APPROVED LEVER HANDLES.
6. DOORS OPENING INTO REQUIRED 1-HOUR, FIRE-RESISTIVE CORRIDORS SHALL BE PROTECTED WITH A SMOKE OR DRAFT STOP ASSEMBLY HAVING A 20-MINUTE RATING AND SHALL BE SELF-CLOSING.
7. 20-MINUTE DOOR JAMBS TO BE TIGHT-FITTING, SMOKE AND DRAFT CONTROLLED.
8. EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL WHEN SERVING 50 OR MORE PERSONS AND IN ANY HAZARDOUS AREA.
9. INTERIOR WALL AND CEILING FINISHES FOR EXIT CORRIDOR SHALL NOT EXCEED AN END POINT FLAME SPREAD RATING:
 - A. CLASS I, FLAME SPREAD 0-25, SMOKE DENSITY 100, FOR MATERIALS INSTALLED IN VERTICAL EXITS.
 - B. CLASS II, FLAME SPREAD 26-75, SMOKE DENSITY 300, FOR MATERIALS INSTALLED IN HORIZONTAL EXITS.
 - C. CLASS III, FLAME SPREAD 76-200, SMOKE DENSITY 450, FOR MATERIALS INSTALLED IN ANY OTHER LOCATION.
10. DECORATIONS (CURTAINS, DRAPES, SHADES, HANGINGS, ETC.) SHALL BE NON-COMBUSTIBLE OR BE FLAMEPROOFED IN AN APPROVED MANNER.
11. PROVIDE FIRE DAMPERS OR DOORS WHERE AIR DUCTS PENETRATE FIRE-RATED WALLS OR CEILINGS.
12. STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS AND HAZARDOUS SUBSTANCES SHALL COMPLY WITH FIRE CODE REGULATIONS.
13. WOOD BLOCKING SHALL BE FIRE TREATED IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS.
14. EXTEND OR MODIFY EXISTING FIRE SAFETY SYSTEMS AS REQUIRED TO PROVIDE AN APPROVED FIRE LIFE SAFETY SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT WITH COMPLETE DESCRIPTION OF SEQUENCE OF OPERATION, AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
15. LOCATE THE CENTER OF FIRE ALARM INITIATING DEVICES 48" ABOVE THE LEVEL OF THE FLOOR, WORKING PLATFORM, GROUND SURFACE OR SIDEWALK.
16. EMERGENCY WARNING SYSTEMS SHALL ACTIVATE A MEANS OF WARNING THE HEARING IMPAIRED. FLASHING VISUAL WARNING SHALL HAVE A FREQUENCY OF NOT MORE THAN 60 FLASHES PER MINUTE.
17. EXTEND OR MODIFY EXISTING AUTOMATIC FIRE EXTINGUISHING SYSTEM AS REQUIRED TO PROVIDE AN APPROVED AUTOMATIC FIRE EXTINGUISHING SYSTEM. SUBMIT PLANS TO FIRE DEPARTMENT AND OBTAIN APPROVAL PRIOR TO INSTALLATION.
18. AUTOMATIC SPRINKLER SYSTEMS SHALL BE SUPERVISED BY AN APPROVED CENTRAL, PROPRIETARY OR REMOTE STATION SERVICE OR A LOCAL ALARM WHICH WILL GIVE AN AUDIBLE SIGNAL AT A CONSTANTLY ATTENDED LOCATION.

FINISH NOTES

1. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
3. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS AND COVERED, TOP SET RESILIENT BASE AT RESILIENT FLOORING, UNLESS OTHERWISE NOTED.

POWER & COMMUNICATION NOTES

1. PRIOR TO CORING SLAB, REVIEW LOCATIONS WITH ARCHITECT AND COORDINATE LOCATIONS WITH OWNER.
2. COORDINATE INSTALLATION OF TELECOMMUNICATIONS, DATA AND SECURITY SYSTEMS AND AUDIOVISUAL DRAWINGS.
3. VERIFY EQUIPMENT SPECIFICATIONS, POWER AND INSTALLATION REQUIREMENTS WITH MANUFACTURERS TO ENSURE PROPER FIT AND FUNCTION.
4. VERIFY MOUNTING REQUIREMENTS OF ELECTRICAL, TELEPHONE AND OTHER EQUIPMENT.
5. GANG ADJACENT LIGHT SWITCHES AND COVER WITH A SINGLE PLATE.
6. MOUNT STANDARD WALL SWITCHES AND THERMOSTATS AT HEIGHTS REQUIRED BY TITLE 24 AND ADA GUIDELINES, UNLESS OTHERWISE NOTED. WHEN THERMOSTATS AND LIGHT SWITCH OCCUR TOGETHER, INSTALL BOTH ALIGNED HORIZONTALLY WITH CENTER LINE AT -3'-2" ABOVE FINISHED FLOOR.
7. INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLET OR SWITCH, OR CLUSTER OF OUTLETS OR SWITCHES, UNLESS OTHERWISE NOTED.
8. INSTALL OUTLETS ON OPPOSITE SIDES OF PARTITIONS IN SEPARATE STUD CAVITIES. DO NOT INSTALL BACK-TO-BACK.
9. PROVIDE MATCHING COVER PLATES, RECEPTACLES AND RELATED ITEMS. PROVIDE ONE-PIECE TYPE GANG COVER PLATES, UNLESS OTHERWISE NOTED.
10. IDENTIFY DEDICATED OR ISOLATED GROUND ELECTRICAL OUTLETS WITH A RED DOT.

DISABLED ACCESS NOTES

1. IN BUILDINGS AND FACILITIES, FLOORS OF A GIVEN STORY SHALL BE A COMMON LEVEL THROUGHOUT, OR SHALL BE CONNECTED BY PEDESTRIAN RAMP, PASSENGER ELEVATORS OR SPECIAL ACCESS LIFTS.
2. FLOOR SURFACES SHALL BE SLIP-RESISTANT.
3. EVERY CORRIDOR AND AISLE SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE NOT LESS THAN 44" IN WIDTH.
4. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2" IN HEIGHT. LEVEL CHANGES NOT EXCEEDING 1/4" MAY BE VERTICAL. BEVEL OTHERS WITH A SLOPE NO GREATER THAN 1:2.
5. LATCHING AND LOCKING DEVICES THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
6. CENTER HAND ACTIVATED DOOR OPENING HARDWARE BETWEEN 30" AND 44" ABOVE THE FLOOR.
7. MAXIMUM PULL OR PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS. MEASURED AT RIGHT ANGLES TO HINGED DOORS AND AT CENTER PLANE OF SLIDING OR FOLDING DOORS. CORRESPONDING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. MAXIMUM EFFORT TO OPERATE REQUIRED FIRE DOORS MAY BE INCREASED NOT TO EXCEED 15 POUNDS.
8. THE BOTTOM 10" OF ALL DOORS (EXCEPT SLIDING AND AUTOMATIC) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION. PROVIDE A 10" HIGH SMOOTH PANEL ON THE PUSH SIDE OF NARROW FRAME DOORS.
9. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE NOT LESS THAN 3'-0" IN WIDTH AND NOT LESS THAN 6'-8" IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE SECURELY MOUNTED THAT THE CLEAR WIDTH OF THE DOORWAY IS NOT LESS THAN 32".
10. WHERE A PAIR OF DOORS IS UTILIZED, AT LEAST ONE OF THE DOORS SHALL PROVIDE A CLEAR, UNOBSTRUCTED OPENING WIDTH OF 32" WITH THE LEAF POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.
11. IDENTIFY ACCESSIBLE ENTRANCES WITH AT LEAST ONE STANDARD SIGN AND WITH ADDITIONAL UNIDIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
12. THE FLOOR OR LANDING ON EACH SIDE OF AN ENTRANCE OR PASSAGE DOOR SHALL BE LEVEL AND CLEAR. THE LEVEL AND CLEAR AREA SHALL HAVE A LENGTH IN THE DIRECTION OF DOOR SWING OF AT LEAST 60" AND THE LENGTH OPPOSITE THE DIRECTION OF DOOR SWING OF 44" AS MEASURED.
13. FLOORS OR LANDINGS SHALL BE NOT MORE THAN 1/2" LOWER THAN THE THRESHOLD OF THE BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
14. TO ALERT THE VISUALLY IMPAIRED, MARK THE UPPER APPROACH AND THE LOWER REAR OF EACH INTERIOR STAIR WITH A STRIP OF CLEARLY CONTRASTING COLOR AT LEAST 2" WIDE, PLACED PARALLEL TO AND NOT MORE THAN 1" FROM THE NOSE OF THE STEP OR LANDING. THE STRIP SHALL BE OF A MATERIAL THAT IS AT LEAST AS SLIP RESISTANT AS THE OTHER TREADS OF THE STAIR.
15. CENTER ELECTRICAL RECEPTACLE OUTLETS NOT LESS THAN 15" ABOVE THE FLOOR OR WORKING PLATFORM.
16. SANITARY FACILITIES LOCATED ON AN ACCESSIBLE FLOOR OF A BUILDING SHALL BE ACCESSIBLE TO THE PHYSICALLY HANDICAPPED.
17. ENTRY TO SANITARY FACILITIES:
 - A. 44" CLEAR AISLES OR CORRIDORS WHERE OCCUPANT LOAD IS 10 OR MORE.
 - B. DOORWAYS TO HAVE A 32" CLEAR OPENING.
 - C. ON APPROACH SIDE, PROVIDE A 90" CLEAR LEVEL SPACE WHEN DOOR SWINGS TOWARD APPROACH AND 44" SPACE WHEN DOOR SWINGS AWAY FROM APPROACH.
18. TOILET ROOM ACCESSORIES:
 - A. MOUNT BOTTOM EDGE OF MIRRORS NO HIGHER THAN 40" FROM THE FLOOR.
 - B. MOUNT TOILET TISSUE DISPENSERS WITHIN 12" FROM THE FRONT EDGE OF THE TOILET SEAT.
 - C. MOUNT DISPENSING AND DISPOSAL FIXTURES (TOWEL, SANITARY NAPKINS, WASTE, COIN SLOTS, ETC.) WITH OPERATING PARTS NO HIGHER THAN 40" FROM THE FLOOR.
19. SINGLE ACCOMMODATION TOILET FACILITY:
 - A. WATER CLOSET TO HAVE A 28" CLEARANCE FROM A FIXTURE AND 32" FROM A WALL.
 - B. MINIMUM CLEAR SPACE IN FRONT OF WATER CLOSET TO BE 48".
 - C. A SPACE 36" X 48" IS PERMITTED IN FRONT OF EXISTING WATER CLOSET ACCESSIBLE TO THE HANDICAPPED.
20. THE HEIGHT OF THE WATER CLOSET (TOP OF SEAT) SHALL BE BETWEEN 17" AND 19".
21. MOUNT FLUSH VALVE CONTROL, NO MORE THAN 44" ABOVE THE FLOOR, ON THE SIDE OF THE TOILET WITH THE GREATEST SEPARATION FROM ADJACENT WALL OR OTHER SURFACE.
22. PROVIDE GRAB BARS ON EACH SIDE, ON ONE SIDE AND BACK OF WATER CLOSET.
 - A. GRAB BARS TO BE 37" HIGH AND PARALLEL TO THE FLOOR.
 - B. SIDE BARS TO BE 42" LONG AND PROJECT 24" IN FRONT OF WATER CLOSET STOOL. GRAB BAR AT BACK TO BE 36" LONG.
 - C. DIAMETER OF GRAB BARS TO BE 1-1/4" TO 1-1/2".
 - D. PROVIDE 1-1/2" CLEARANCE BETWEEN GRAB BARS AND WALL.
 - E. GRAB BARS (INCLUDING CONNECTORS, FASTENERS, SUPPORT BACKING, ETC.) SHALL SUPPORT A 250 POUND LOAD.
 - F. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS.
 - G. GRAB BARS AND ANY ADJACENT SURFACE SHALL BE FREE OF SHARP OR ABRASIVE ELEMENTS.
 - H. EDGES SHALL HAVE A MINIMUM RADIUS OF 18".
23. PROVIDE A CLEAR FLOOR SPACE 30" X 48" IN FRONT OF LAVATORY TO PERMIT A FORWARD APPROACH.
24. MOUNT LAVATORIES WITH A MINIMUM CLEARANCE OF 20" FROM THE FLOOR TO THE BOTTOM OF THE APRON. PROVIDE KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30" IN WIDTH WITH 8" MINIMUM WIDTH AND SHALL BE A MINIMUM OF 9" HIGH FROM THE FLOOR. A MINIMUM OF 17" DEEP FROM THE FRONT OF THE LAVATORY.
25. FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE SHALL BE NO GREATER THAN 5 POUNDS. LEVER-OPERATED, PUSH-TYPE AND ELECTRONICALLY CONTROLLED MECHANISMS ARE EXAMPLES OF ACCEPTABLE DESIGNS. SELF-CLOSING ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS.
26. INSULATE OR OTHERWISE COVER HOT WATER AND DRAIN PIPES UNDER LAVATORIES.
27. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

DRAWING INDEX

#	SHEET NAME	#	DATE	REVISION
ARCHITECTURAL				
A00.00	COVER SHEET	2	10/14/24	RTAP NO. 1
A00.01	DRAWING INDEX, GENERAL NOTES AND MOUNTING DIAGRAMS	1	05/8/24	PERMIT REVIEW COMMENTS
A00.02	ACCESSIBILITY REFERENCE DETAILS			
A00.03	APPENDIX B	1	05/8/24	PERMIT REVIEW COMMENTS
A00.04	LIFE SAFETY PLAN	2	10/14/24	RTAP NO. 1
A00.05	PARTITIONS, DOORS, & WINDOW TYPES	2	10/14/24	RTAP NO. 1
A00.07	UL PARTITION DETAILS			
A01.01	3D PLAN SECTION			
A01.02	EXTERIOR RENDERINGS			
A02.00	ARCHITECTURAL SITE PLAN			
A02.01	CONSTRUCTION PLAN	2	10/14/24	RTAP NO. 1
A02.02	SLAB PLAN			
A02.03	REFLECTED CEILING PLAN	2	10/14/24	RTAP NO. 1
A02.04	ENLARGED REFLECTED CEILING PLAN	2	10/14/24	RTAP NO. 1
A02.05	FINISH PLAN	2	10/14/24	RTAP NO. 1
A02.06	FURNITURE PLAN			
A02.07	ENLARGED PLANS & SECTIONS			
A02.08	ENLARGED PLANS & ELEVATIONS			
A03.01	EXTERIOR ELEVATIONS	2	10/14/24	RTAP NO. 1
A03.02	EXTERIOR ELEVATIONS	2	10/14/24	RTAP NO. 1
A04.10	WALL SECTIONS	1	05/8/24	PERMIT REVIEW COMMENTS
A04.11	WALL SECTIONS	1	05/8/24	PERMIT REVIEW COMMENTS
A04.20	INTERIOR ELEVATIONS			
A04.21	INTERIOR ELEVATIONS			
A04.22	INTERIOR ELEVATIONS			
A04.23	INTERIOR ELEVATIONS			
A05.01	EXTERIOR VIEWS			
A05.02	INTERIOR VIEWS			
A05.03	INTERIOR VIEWS			
A05.04	INTERIOR VIEWS			
A05.10	MILLWORK DETAILS			
A06.01	PLAN DETAILS	1	05/8/24	PERMIT REVIEW COMMENTS
A06.10	SECTION DETAILS			
A06.11	SECTION DETAILS	2	10/14/24	RTAP NO. 1
A06.20	SECTION DETAILS	2	10/14/24	RTAP NO. 1
CIVIL				
1	COVER SHEET			
2	EXISTING CONDITION			
3	OVERALL SITE LAYOUT PLAN			
4	INITIAL EROSION AND SED. CONTROL PLAN			
5	INTERMEDIATE GEO. AND SED. CONTROL PLAN			
6	FINAL EROSION AND SED. CONTROL PLAN			
7	SEDIMENT AND EROSION CONTROL NARRATIVE			
8	NV601 GROUND STABILIZATION AND MATERIALS HANDLING			
9	NC601 SEFL INSPECTION RECORDKEEPING AND REPORTING			
10	GRAVING AND DRAINAGE PLAN			
11	WATER LINE PLAN AND PROFILE			
12	WATER LINE DETAILS			
13	LANDSCAPE PLAN			
D1	SWALE DRAINAGE MAP			
ELECTRICAL				
E00.01	GENERAL NOTES, RISER DIAGRAM & ABBREVIATIONS - ELECTRICAL	1	4/22/24	PERMIT REVISION
E00.02	SPECIFICATIONS - ELECTRICAL			
E00.03	DETAILS - ELECTRICAL			
E00.04	SCHEDULES & DIAGRAMS - ELECTRICAL	2	5/3/24	PERMIT REVISION
E01.01	FLOOR PLAN - LIGHTING	1	4/24/24	PERMIT REVISION
E02.01	FLOOR PLAN - POWER	1	4/24/24	PERMIT REVISION
E03.01	FLOOR PLAN - SYSTEMS	2	5/3/24	PERMIT REVISION
MECHANICAL				
M00.01	NOTES & ABBREVIATIONS - HVAC			
M00.02	SPECIFICATIONS - HVAC			
M01.01	FLOOR PLAN - HVAC	1	5/3/24	PERMIT REVISION
M06.01	SCHEDULES - HVAC			
M07.01	DETAILS - HVAC			
M07.02	DETAILS - HVAC	1	5/3/24	PERMIT REVISION
PLUMBING				
P00.01	NOTES & ABBREVIATIONS - PLUMBING			
P01.01	FLOOR PLAN - PLUMBING			
P04.01	ENLARGED PLANS - PLUMBING			
P07.01	DETAILS - PLUMBING			
STRUCTURAL				
S001	NOTES - STRUCTURAL			
S100	FOUNDATION PLAN			
S101	FRAMING AND STAGE PLAN			
S401	SECTIONS			
S402	SECTION			



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01/30/24

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△	Date	Description
	01/30/24	FOR CONSTRUCTION
1	05/8/24	PERMIT REVIEW COMMENTS

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

DRAWING INDEX, GENERAL NOTES
AND MOUNTING DIAGRAMS

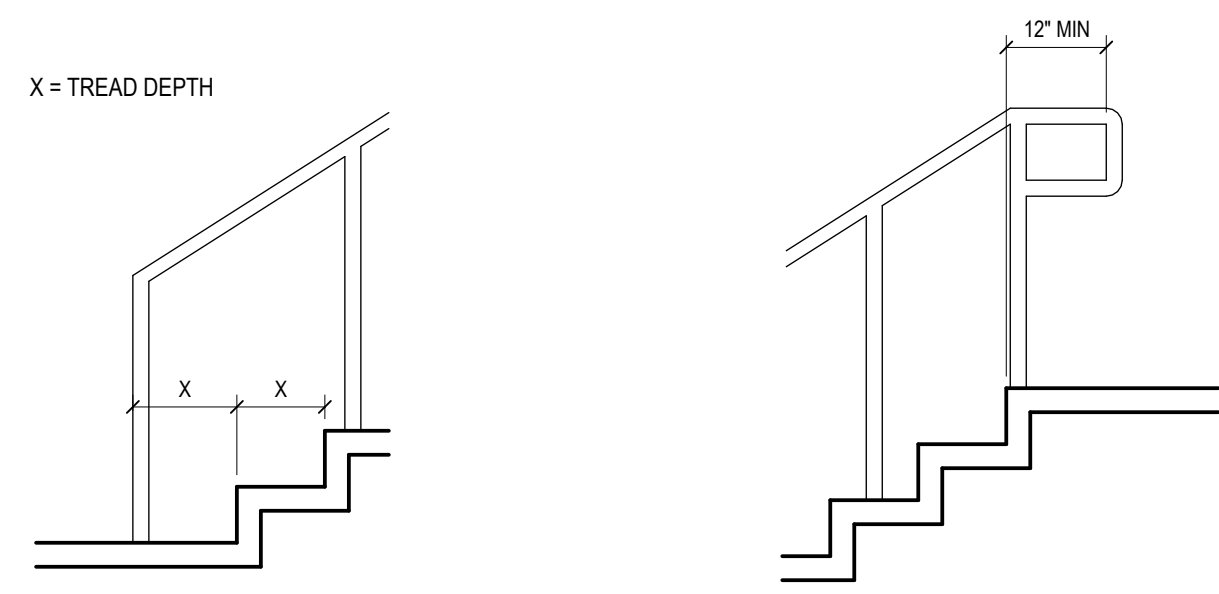
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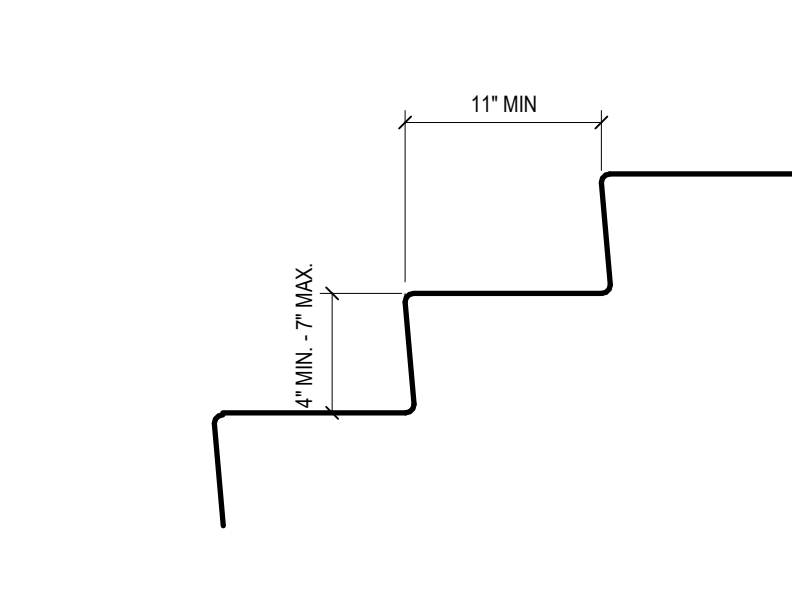
A00.01

02 MOUNTING LOCATIONS - RESTROOM

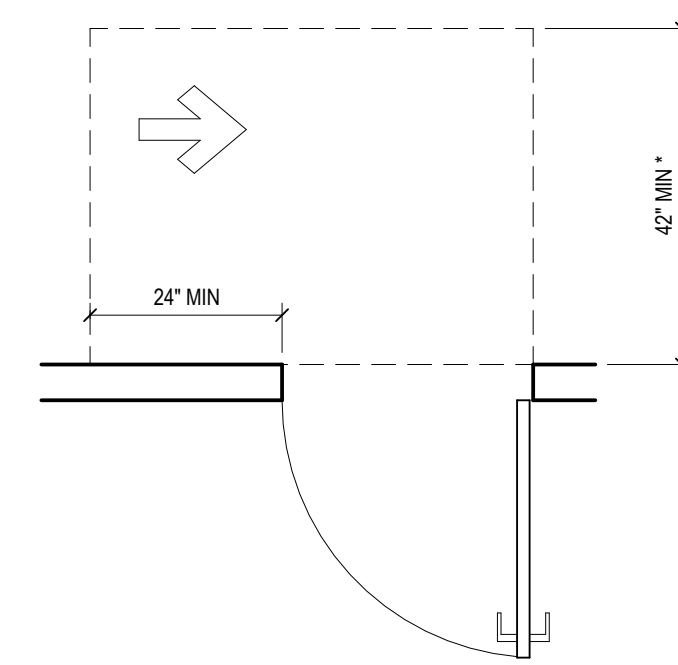
SCALE: 1/2" = 1'-0"



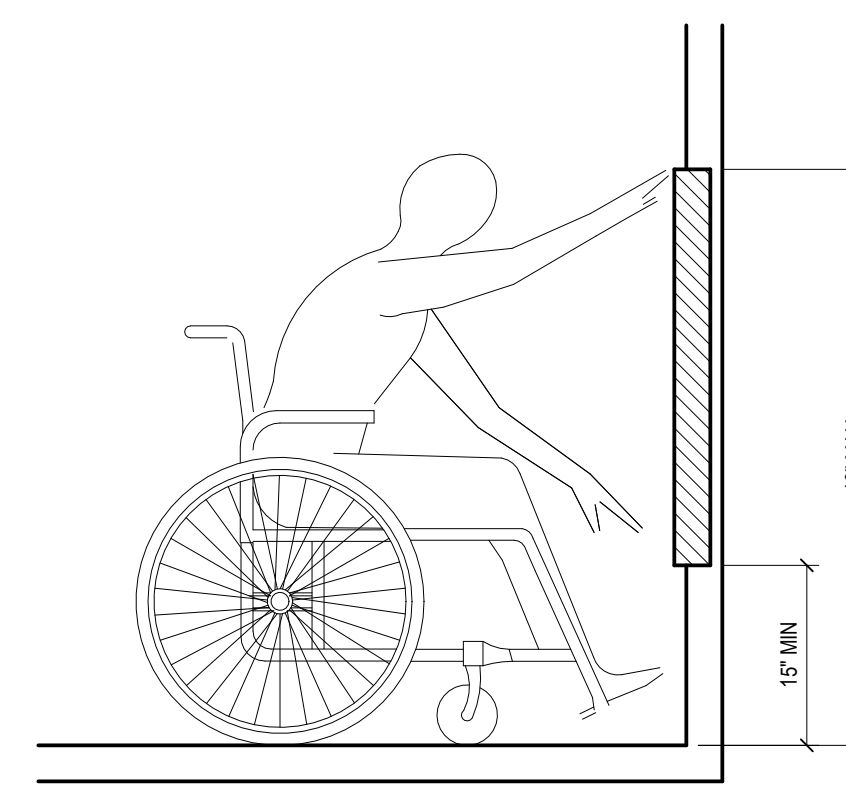
HANDRAIL EXTENSION AT STAIRS



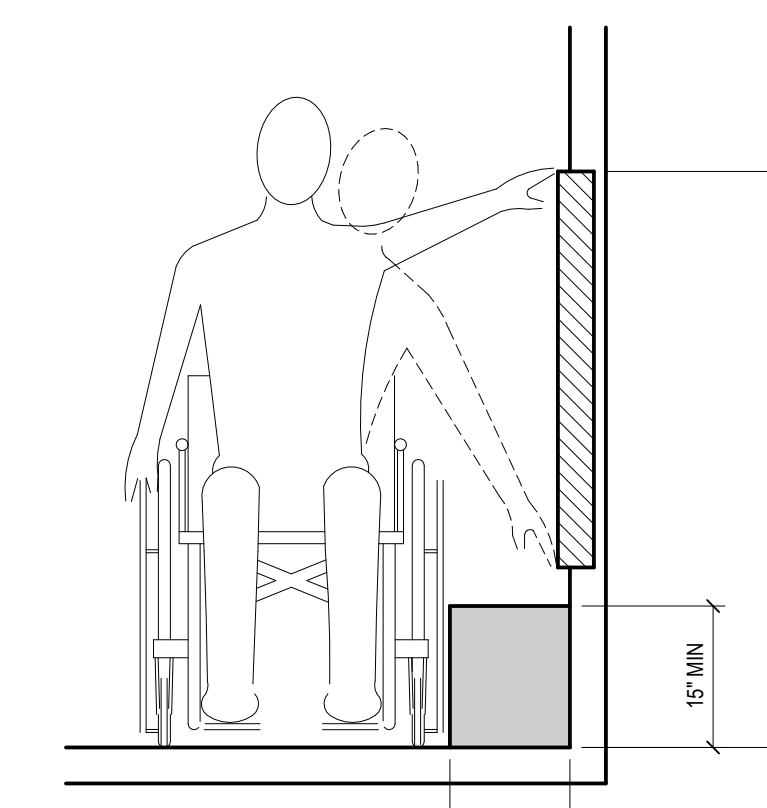
TREADS AND RISERS



* 48" MIN IF CLOSER IS PROVIDED
(G) LATCH APPROACH, PUSH SIDE

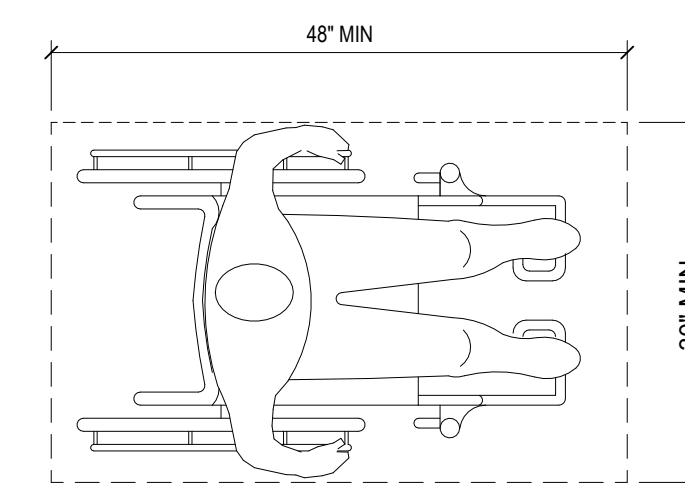


UNOBSTRUCTED FORWARD REACH

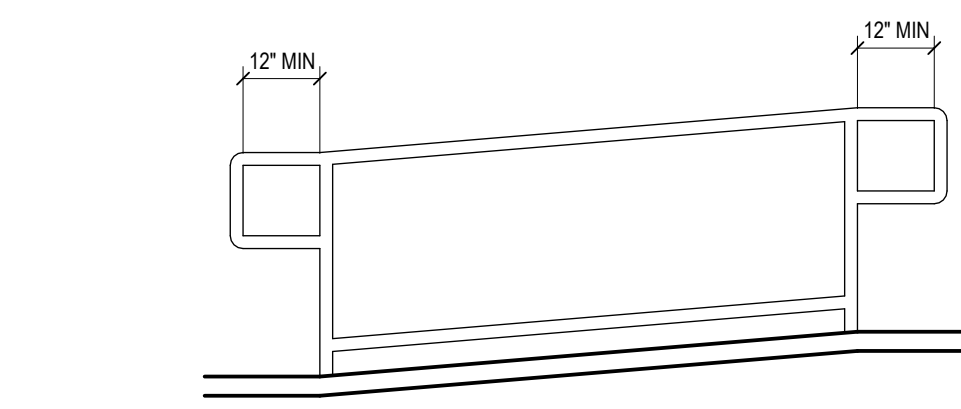


UNOBSTRUCTED SIDE REACH

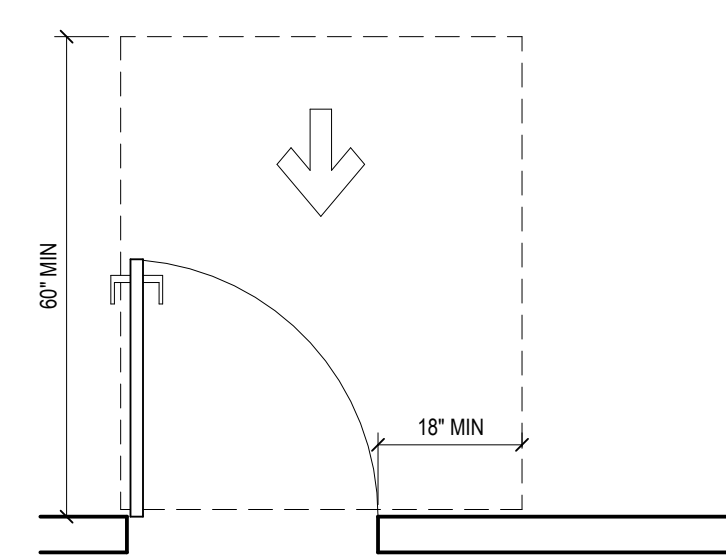
ALL DIAGRAMS ON THIS SHEET ARE REFERENCED FROM:
ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
ICC A117.1-2009
ANSI - AMERICAN NATIONAL STANDARD



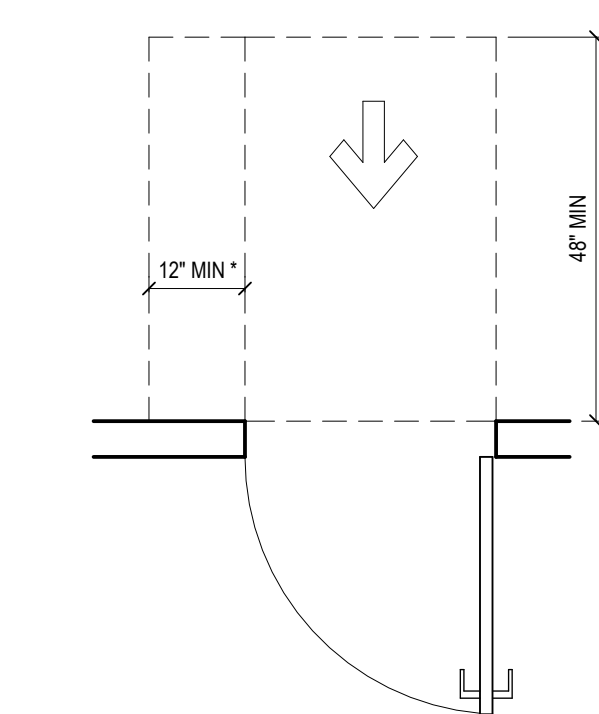
SIZE OF CLEAR FLOOR SPACE



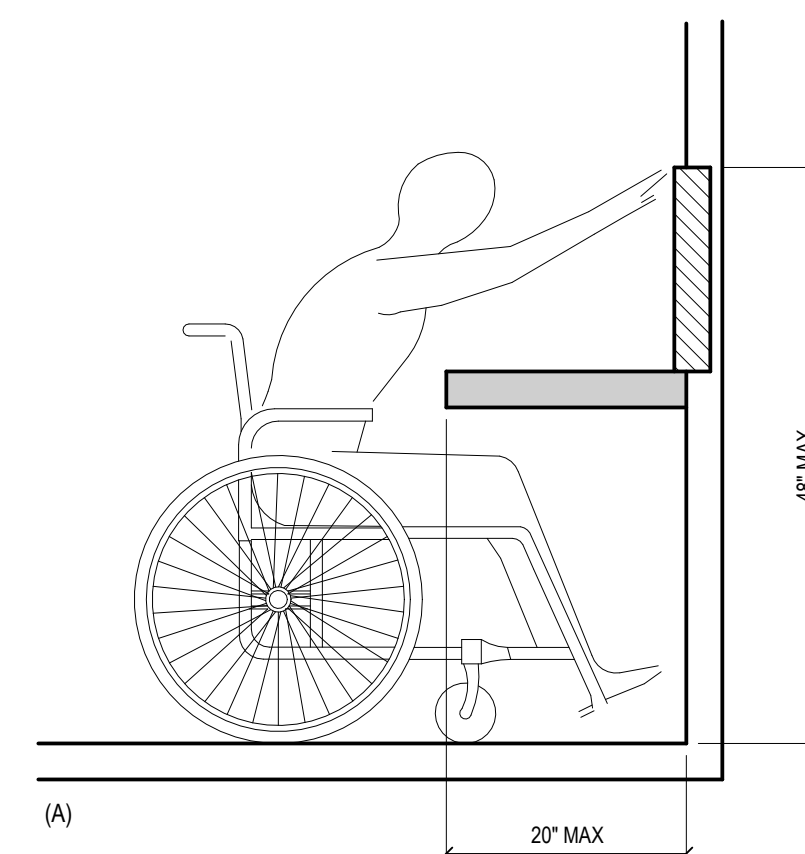
TOP AND BOTTOM EXTENSION AT RAMPS



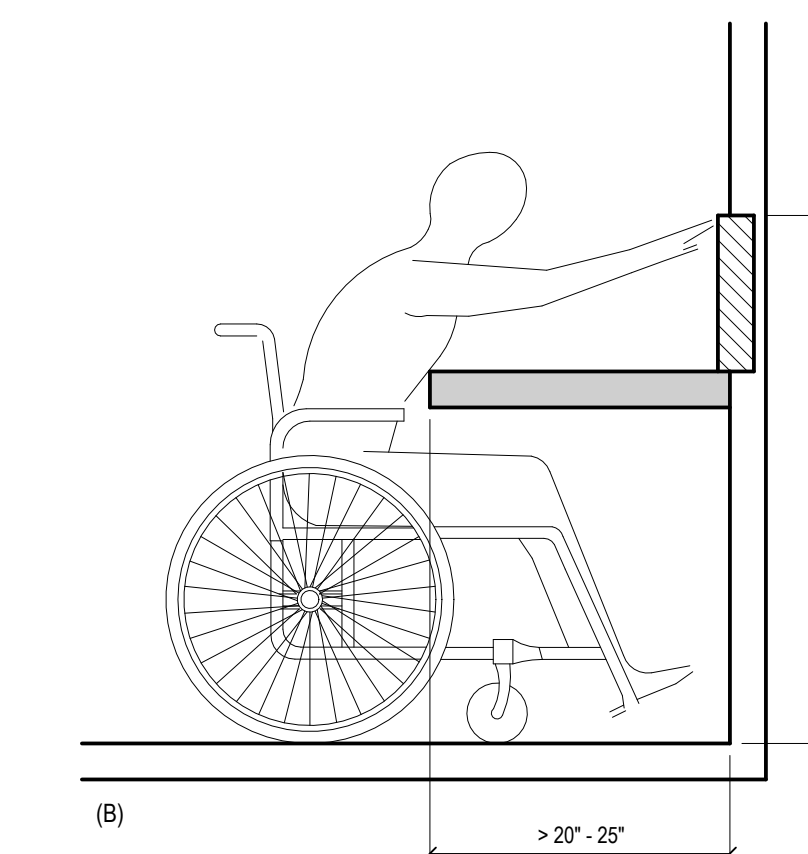
(A) FRONT APPROACH, PULL SIDE



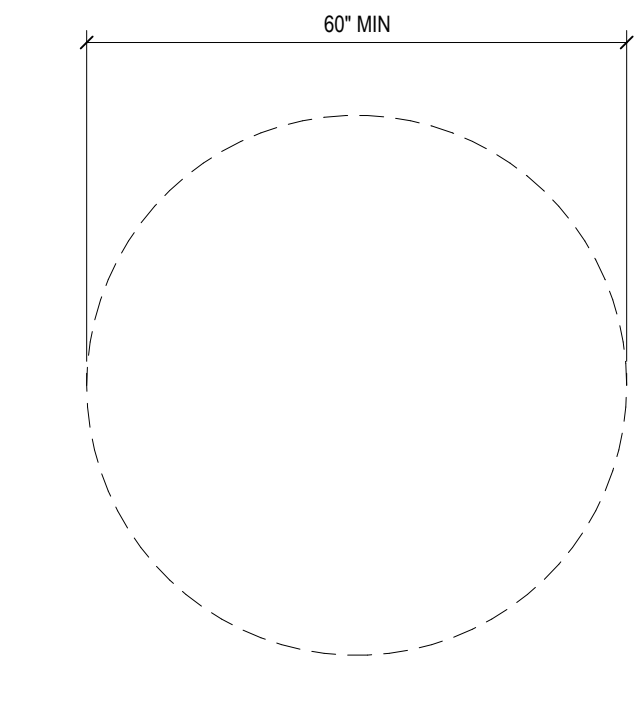
* IF BOTH CLOSER AND LATCH ARE PROVIDED
(B) FRONT APPROACH, PULL SIDE



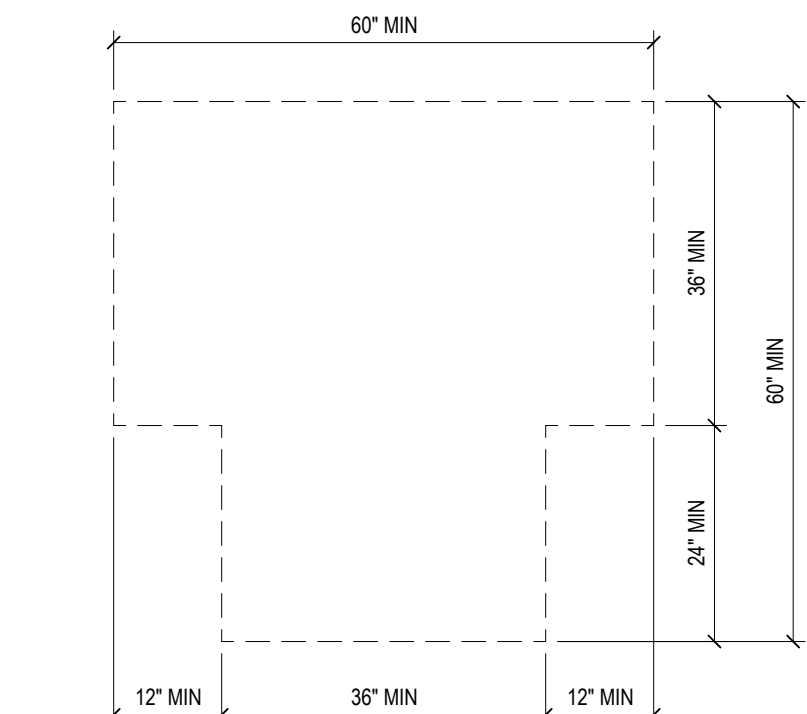
OBSTRUCTED HIGH FORWARD REACH



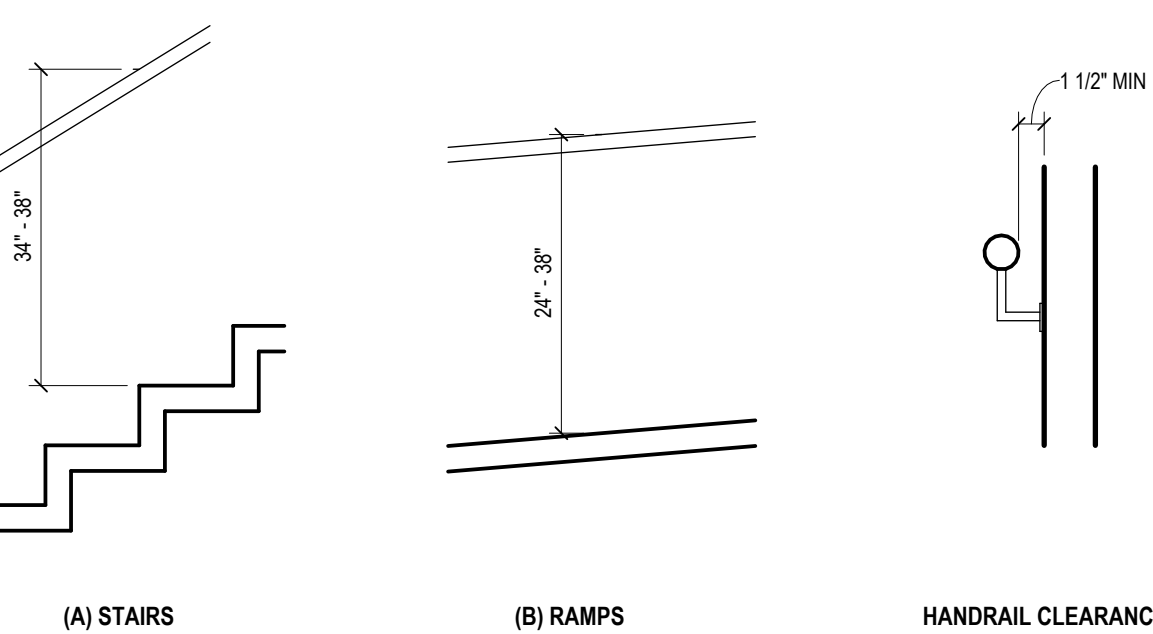
OBSTRUCTED HIGH FORWARD REACH



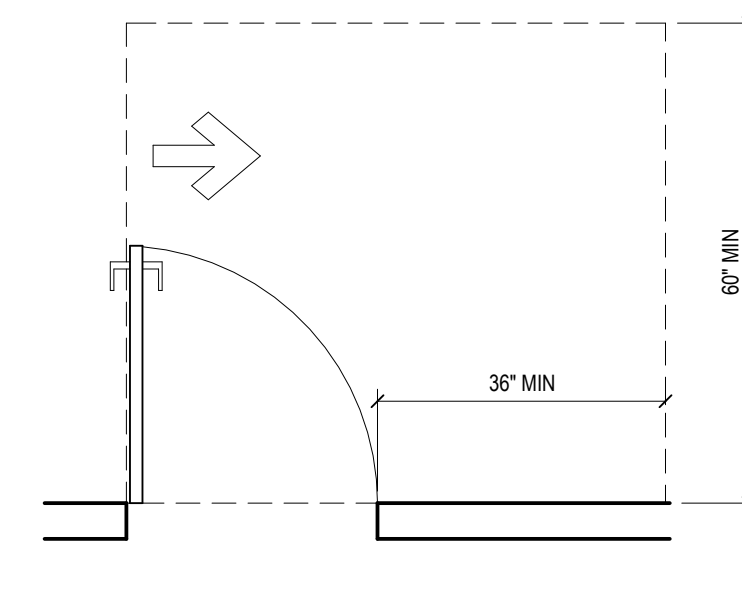
(A) CIRCULAR



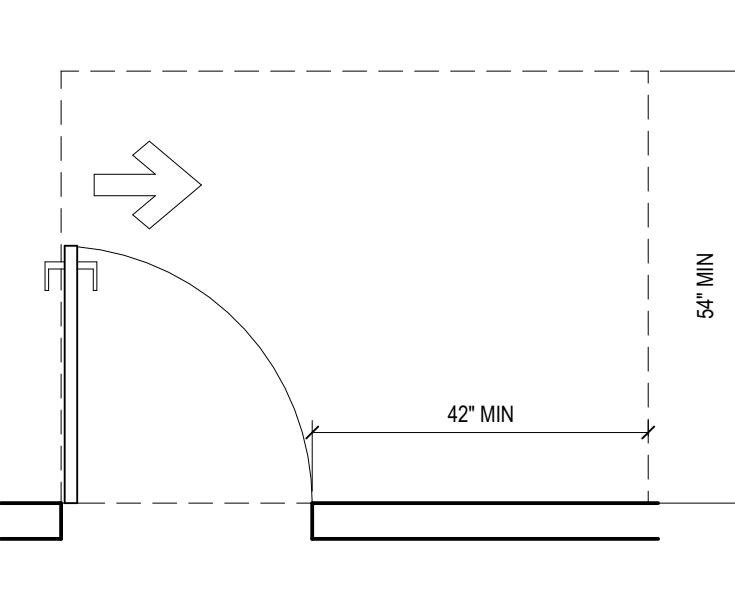
(B) T-SHAPED



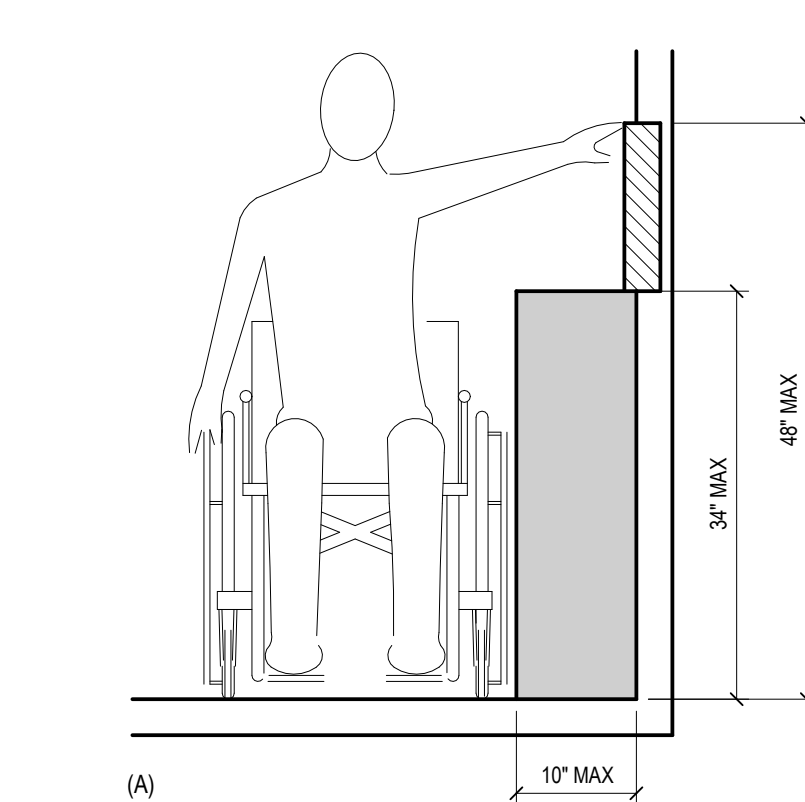
HANDRAIL HEIGHT



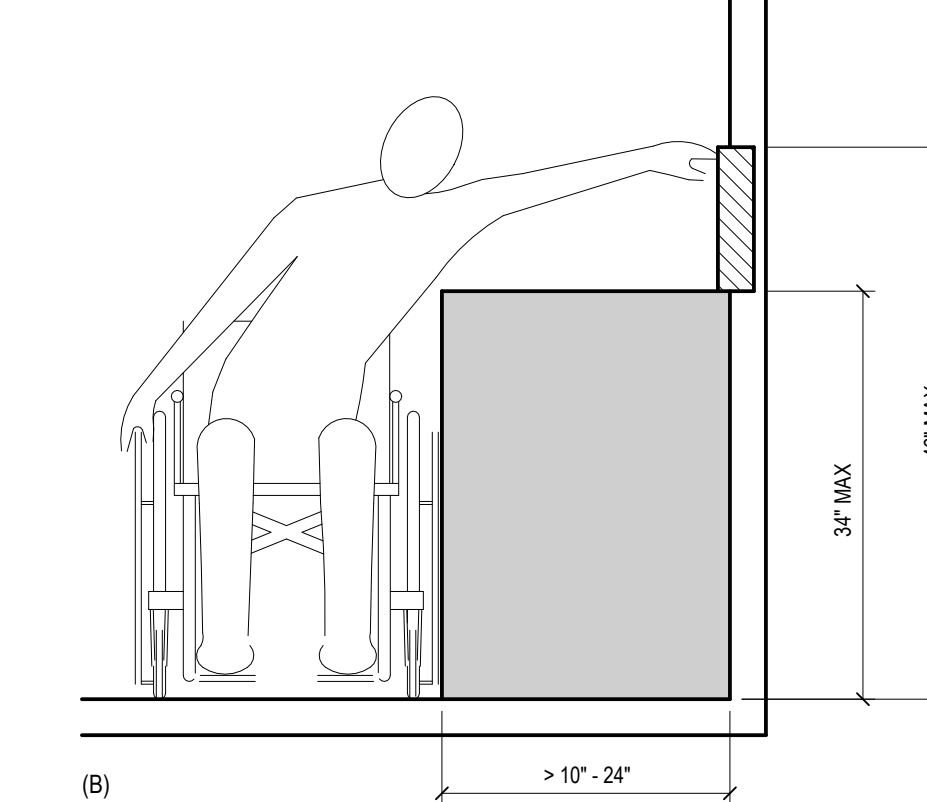
(C) HINGE APPROACH, PULL SIDE



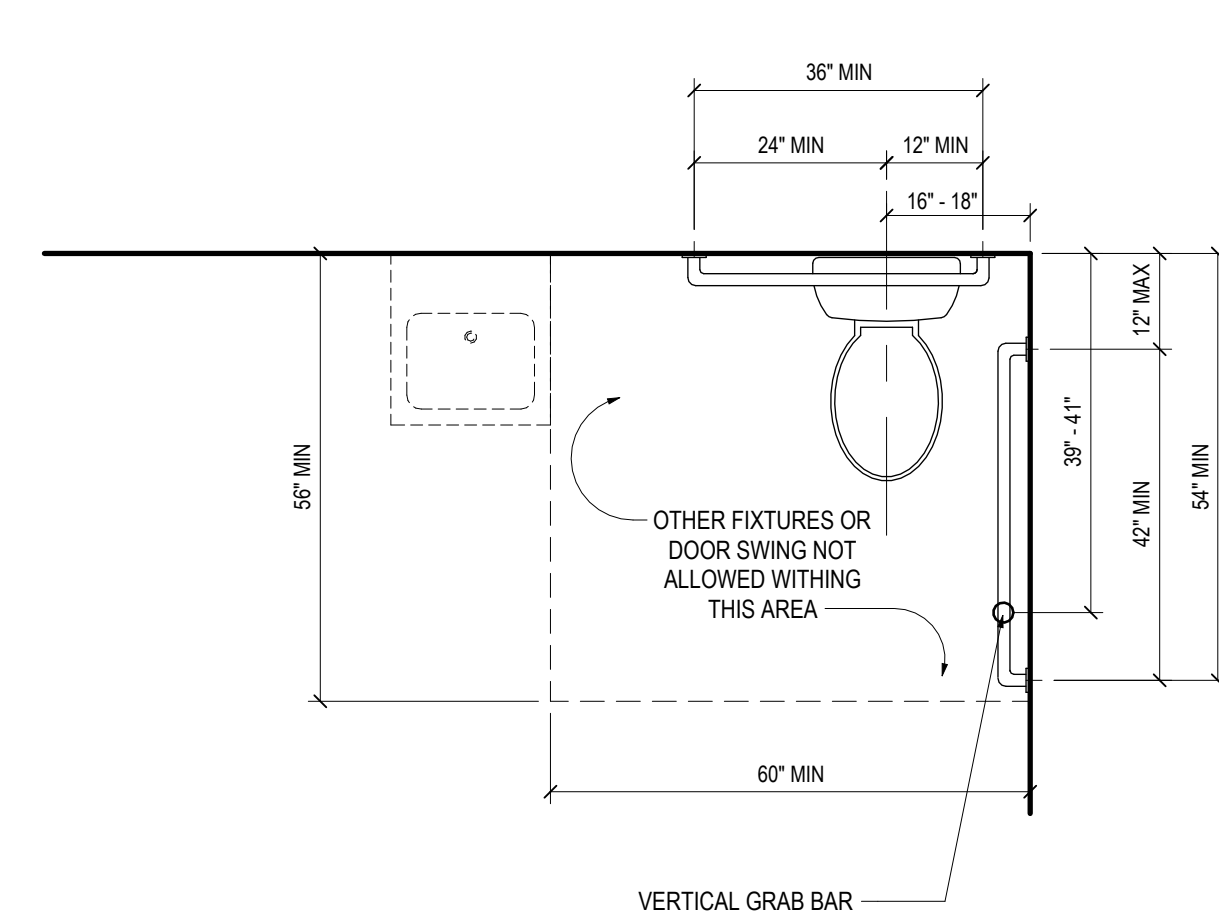
(D) HINGE APPROACH, PULL SIDE



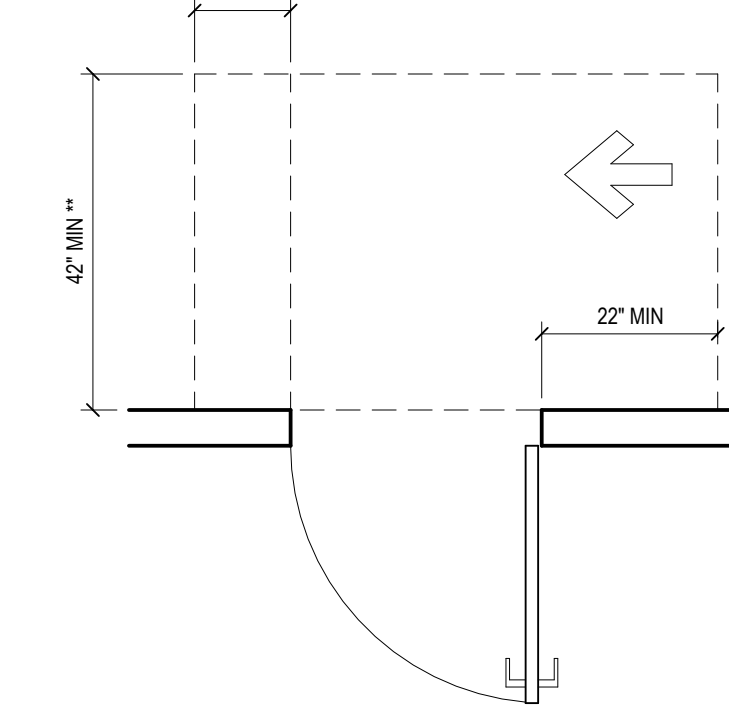
OBSTRUCTED HIGH SIDE REACH



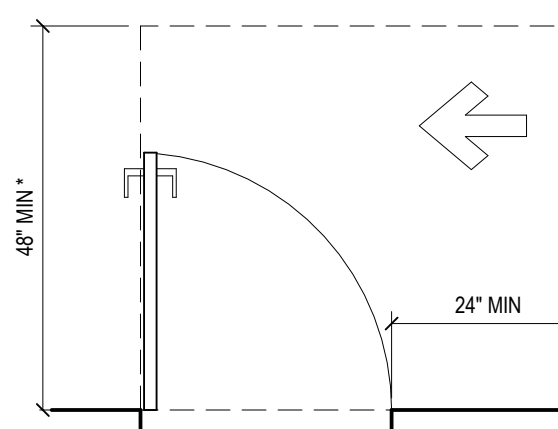
OBSTRUCTED HIGH SIDE REACH



CLEARANCE FOR WATER CLOSET

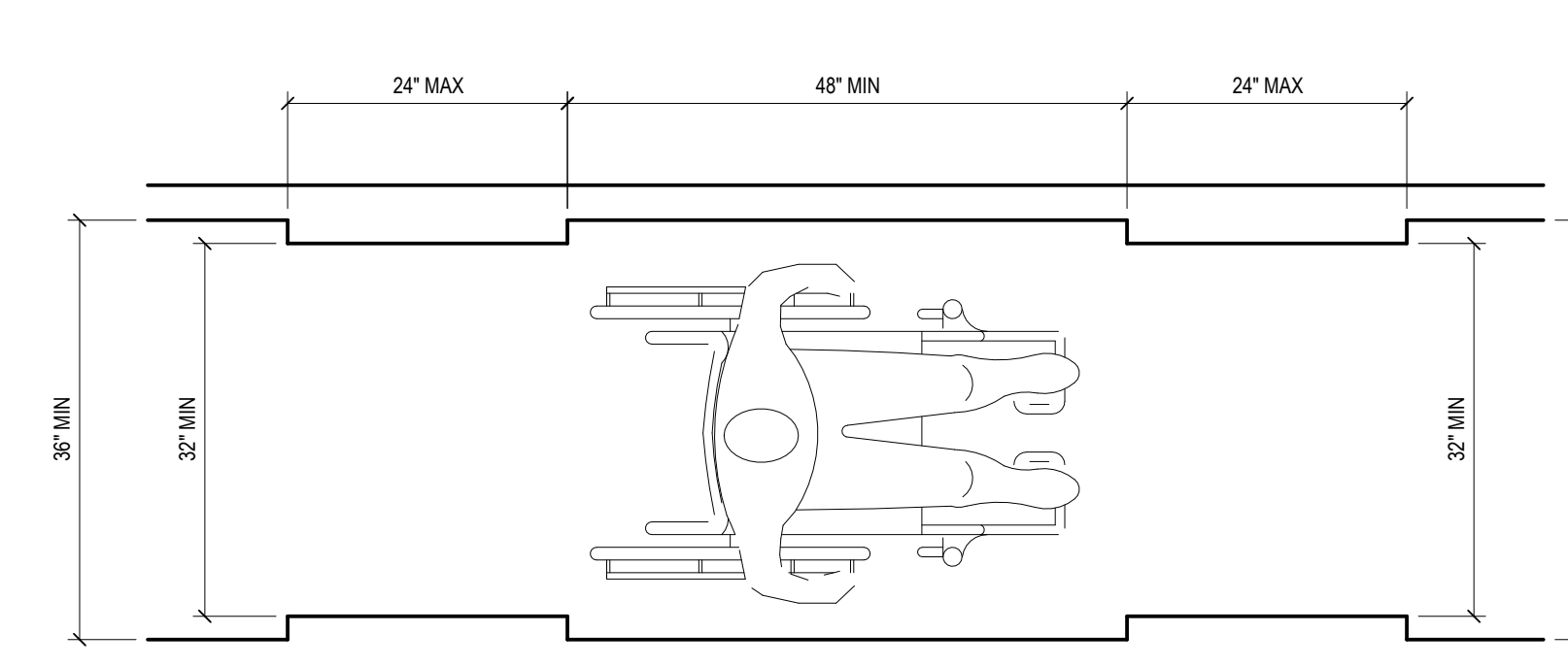


(E) HINGE APPROACH, PUSH SIDE

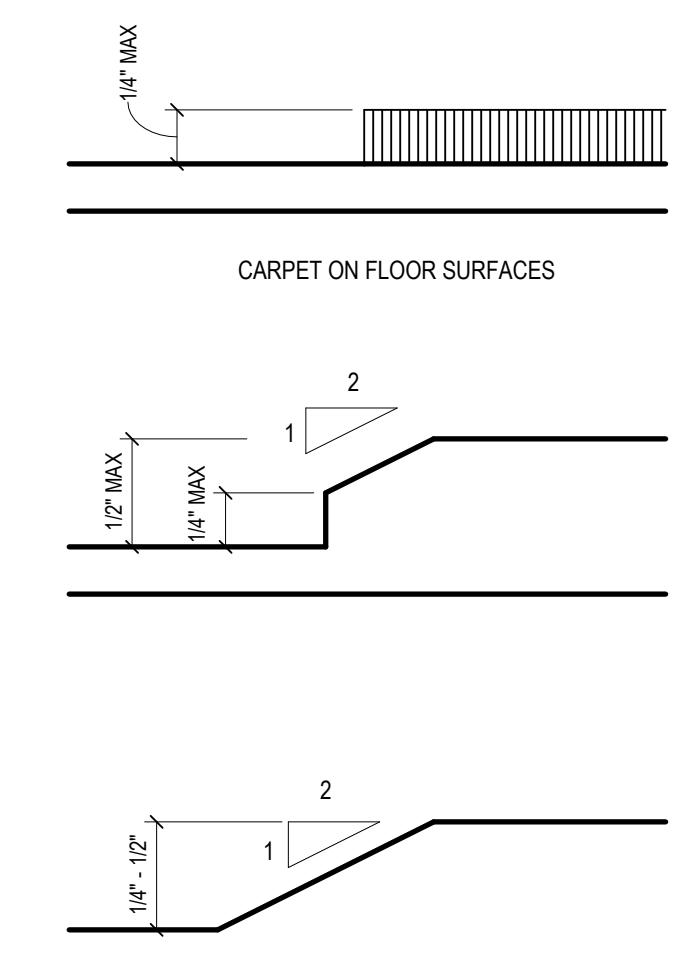


* 54" MIN IF CLOSER IS PROVIDED
(F) LATCH APPROACH, PULL SIDE

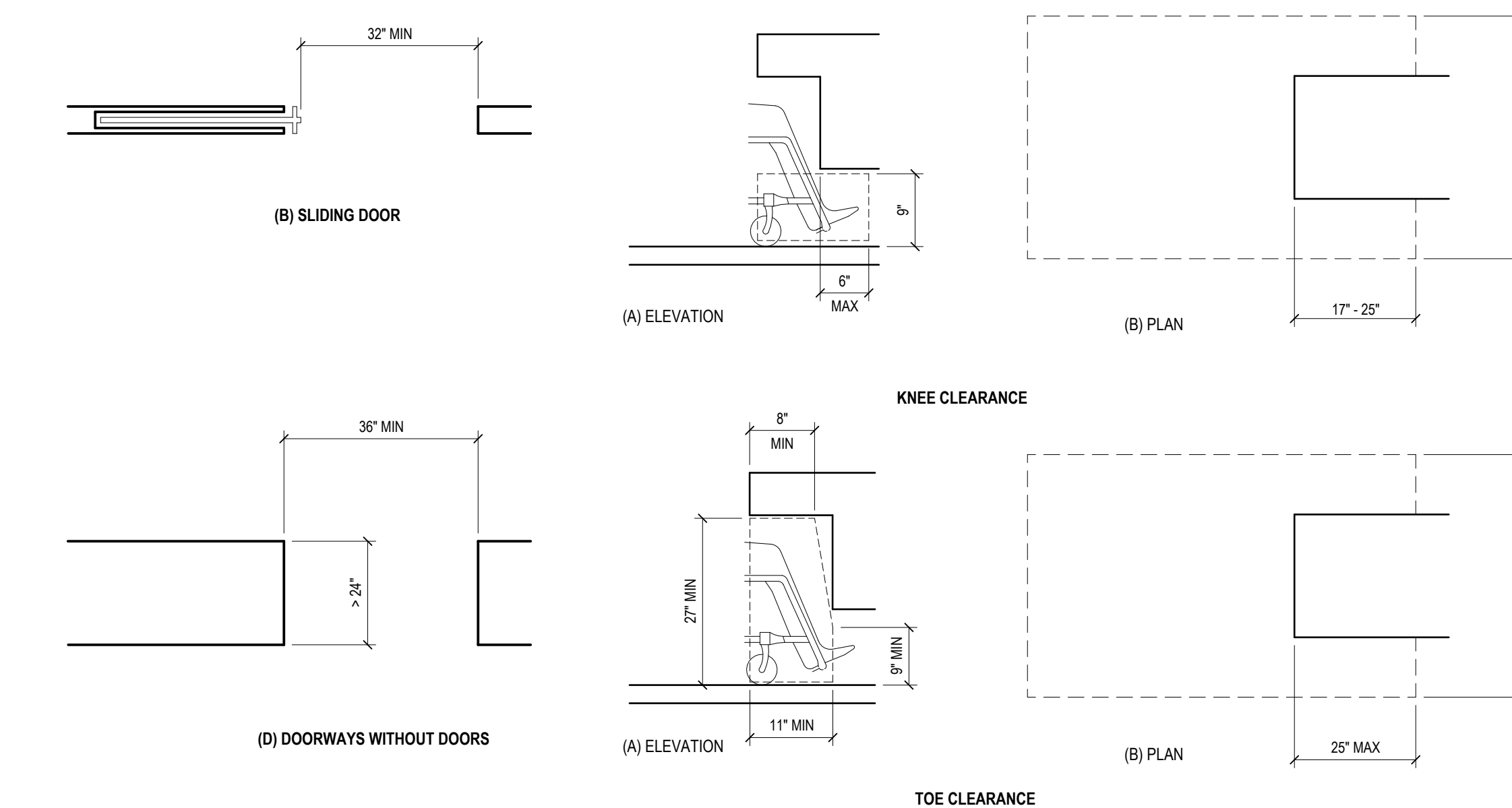
REACH RANGES



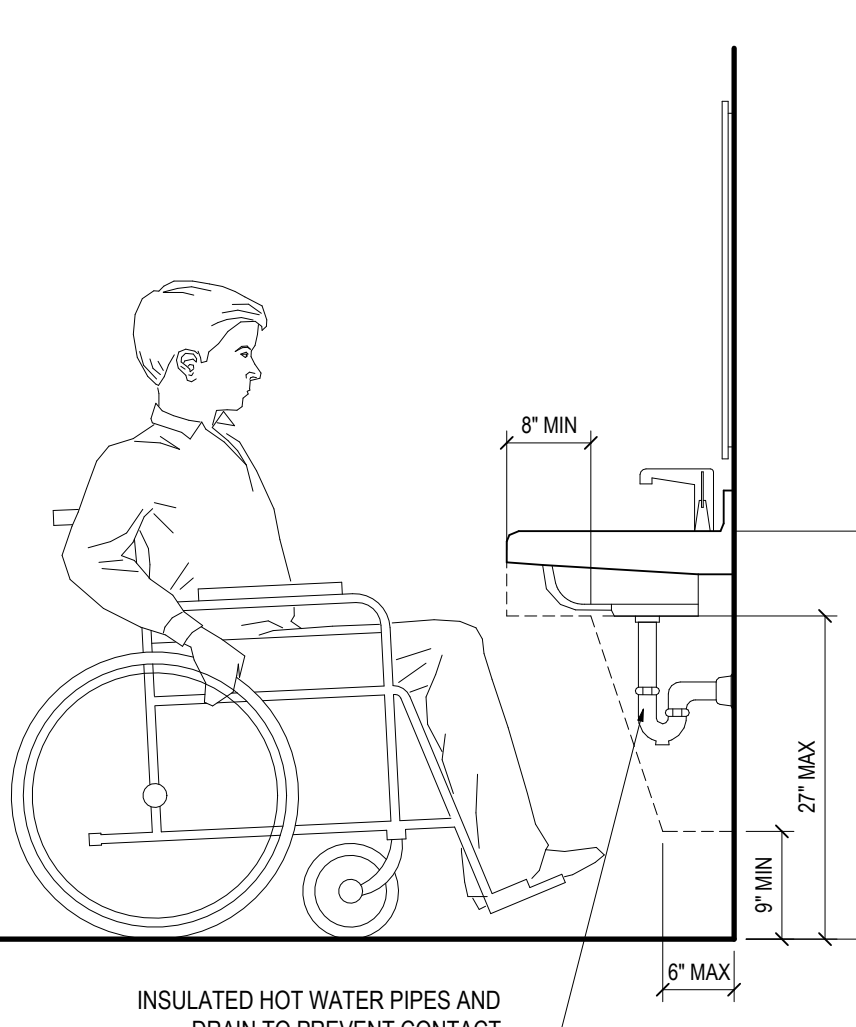
TURNING SPACE



CLEAR WIDTH OF AN ACCESSIBLE ROUTE

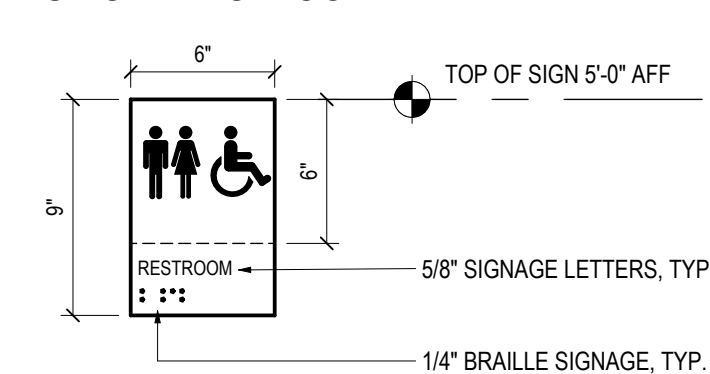


CHANGES IN LEVEL

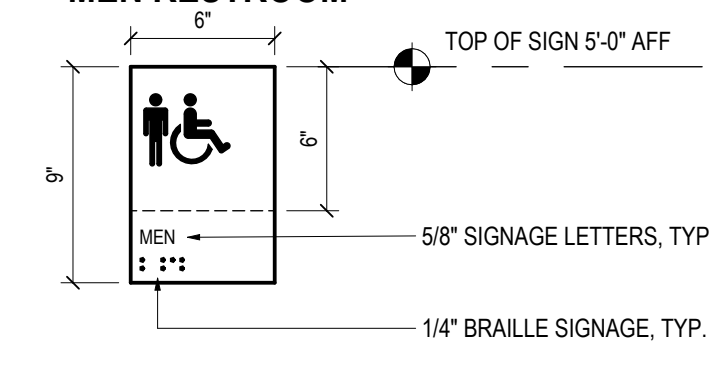


PROVIDE SIGNAGE IN ACCORDANCE WITH 2018
NCBC SECTION 1111, SECTION 2902.4 AND ICC
A117.1 - 2009, SECTION 703.

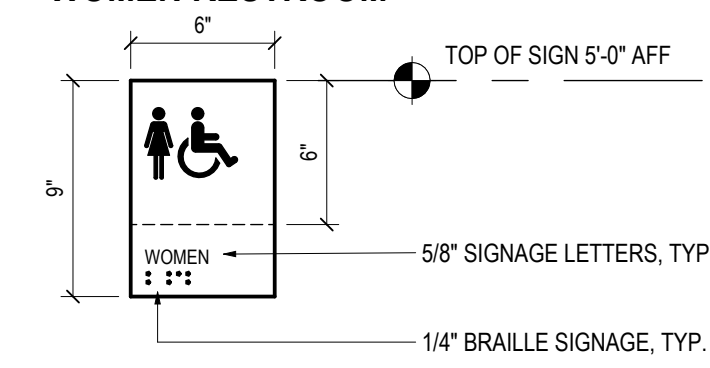
UNISEX RESTROOM



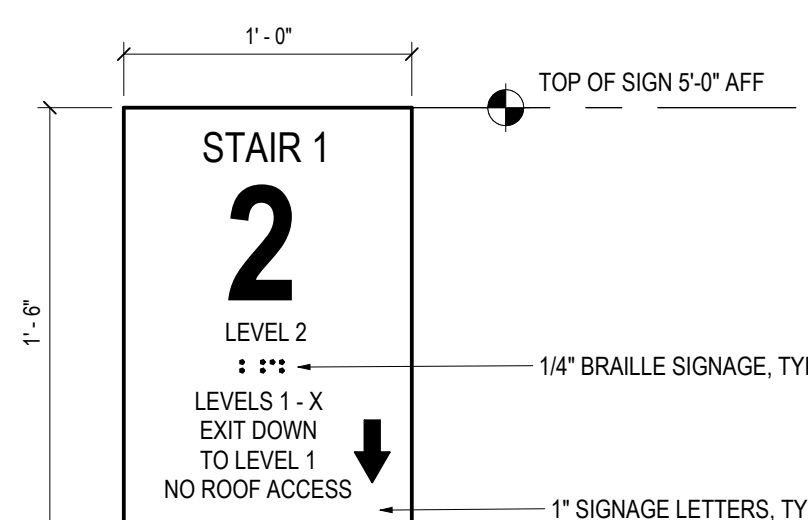
MEN RESTROOM



WOMEN RESTROOM

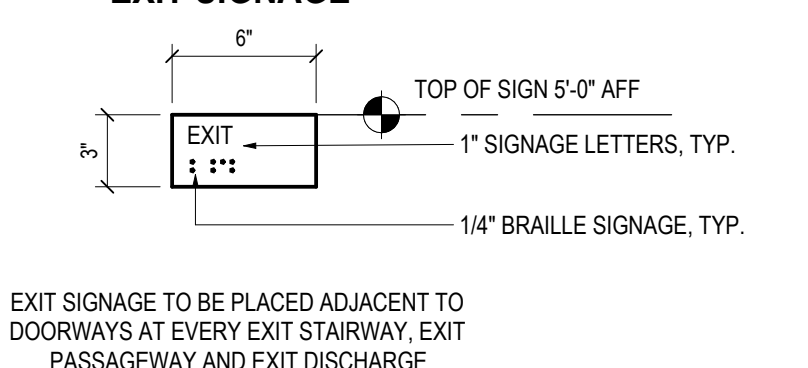


STAIRS



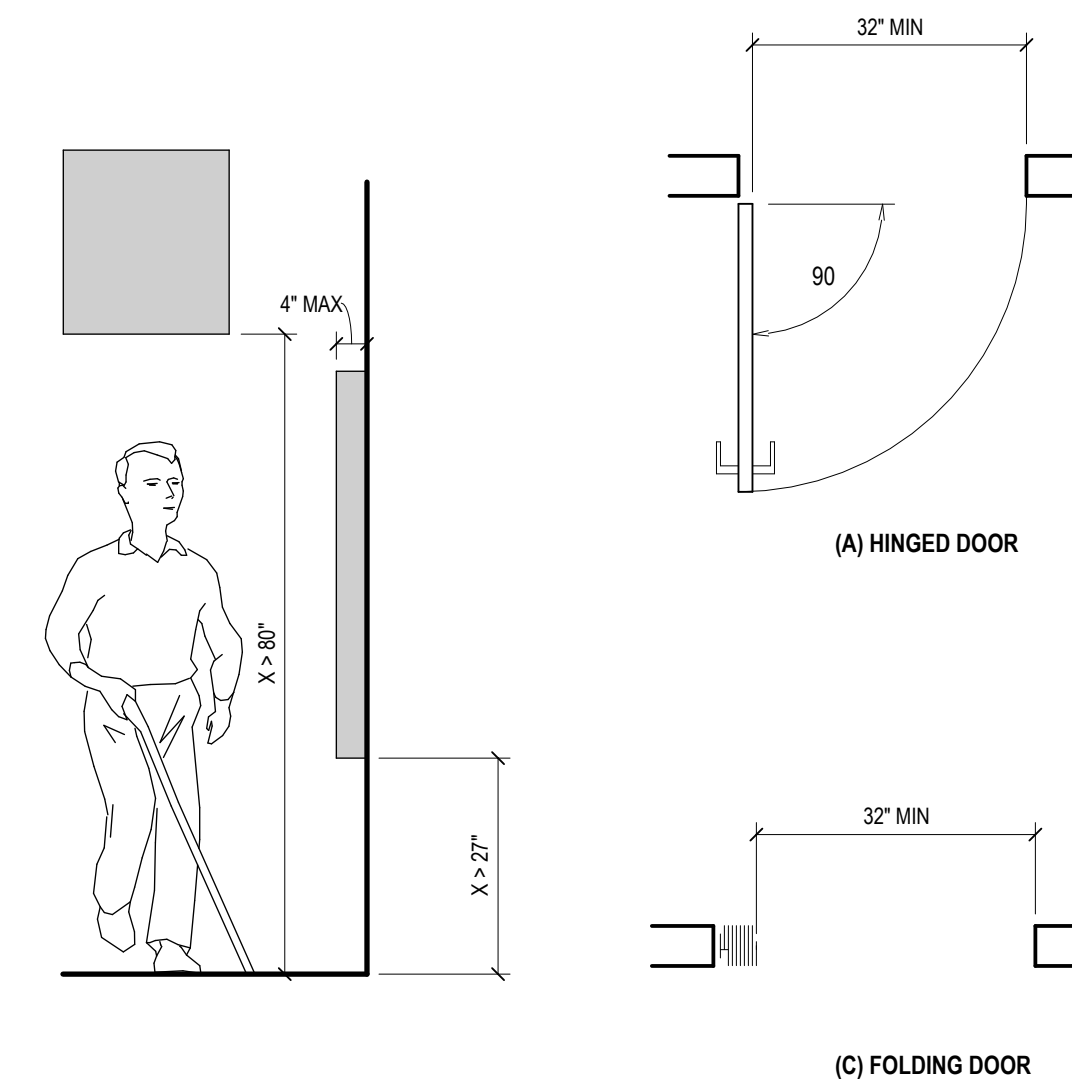
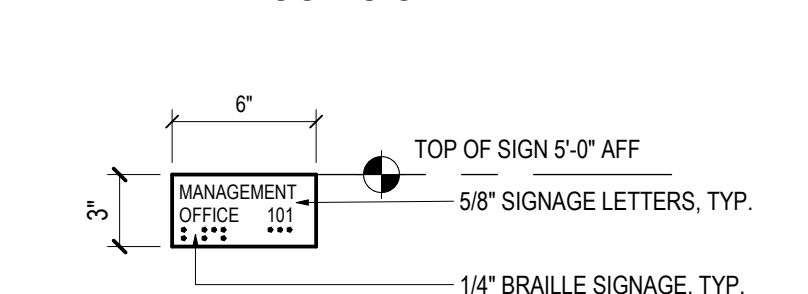
STAIRWAY IDENTIFICATION SIGNS REQUIRED AT EACH FLOOR
LANDING INSIDE EXIST STAIRWAYS.

EXIT SIGNAGE



EXIT SIGNAGE TO BE PLACED ADJACENT TO
DOORWAYS AT EVERY EXIT STAIRWAY, EXIT
PASSAGEWAY AND EXIT DISCHARGE.

PERMANENT ROOM SIGN



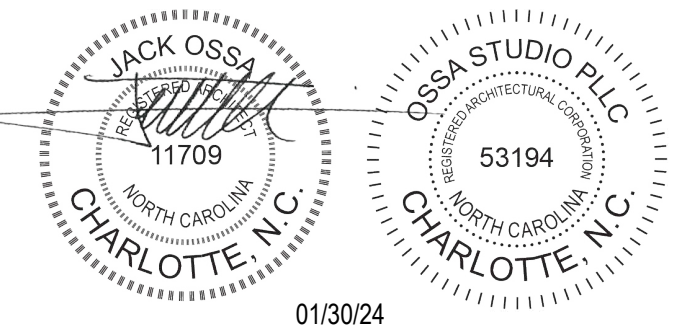
PROTRUDING OBJECTS CLEAR WIDTH OF DOORWAYS

KNEE AND TOE CLEARANCE

LAVATORIES AND SINKS



4539 HEDGEMORE DRIVE, SUITE 101
CHARLOTTE NC 28209
704.890.2553
WWW.OSSASTUDIO.COM



PROJECT TEAM

General Contractor
ECCLESIA CONSTRUCTION
www.ecclesiainc.com
919.327.5670

Civil Engineering
HILLIARD ENGINEERING, PLLC
www.hillardsgrp.com
919.352.2834

Structural Engineering
PROVIDENCE PARTNERS
www.providencepartnersinc.com
704.266.6621

Mechanical, Electrical, Plumbing & Fire Protection
ENGINEERING
www.engineer.com
704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

ACCESSIBILITY REFERENCE DETAILS

Scale

As indicated

A00.02

N. PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

Table with columns for fixture types (Water Closets, Lavatories, Showers, Drinking Fountains) and gender (Male, Female, Unisex) for existing and new buildings.

O. SPECIAL APPROVALS

LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ETC.

P. ENERGY SUMMARY

ENERGY REQUIREMENTS: THE FOLLOWING DATA SHALL BE CONSIDERED MINIMUM AND ANY SPECIAL ATTRIBUTE REQUIRED TO MEET THE ENERGY CODE SHALL ALSO BE PROVIDED.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: [] NO [] YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

EXEMPT BUILDING: [] NO [] YES CODE OR STATUTORY REFERENCE:

CLIMATE ZONE: [] 3A [] 4A [] 5A

METHOD OF COMPLIANCE: ENERGY CODE: [] PERFORMANCE [] PRESCRIPTIVE ASHRAE 90.1: [] PERFORMANCE [] PRESCRIPTIVE OTHER: _____

THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: METAL BUILDING ROOF U-VALUE OF TOTAL ASSEMBLY: U-0.037 R-VALUE OF INSULATION: R-19 + R-11 LS.

EXTERIOR WALLS (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: METAL STUDS WITH RIGID INSULATION / EIFS U-VALUE OF TOTAL ASSEMBLY: U-0.064

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: CONCRETE SLAB ON GRADE U-VALUE OF TOTAL ASSEMBLY: F-0.520

FLOORS SLAB ON GRADE: DESCRIPTION OF ASSEMBLY: CONCRETE SLAB ON GRADE U-VALUE OF TOTAL ASSEMBLY: F-0.520

WALLS BELOW GRADE (EACH ASSEMBLY): DESCRIPTION OF ASSEMBLY: U-VALUE OF TOTAL ASSEMBLY: R-VALUE OF INSULATION:

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FLOORS SLAB ON GRADE: DESCRIPTION OF ASSEMBLY: CONCRETE SLAB ON GRADE U-VALUE OF TOTAL ASSEMBLY: F-0.520

G. ALLOWABLE HEIGHT

Table with columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Rows for Building Height in Feet and Building Height in Stories.

1 Provide code reference if the "shown on plans" quantity is not based on table 504.3 or 504.4. 2 The maximum height of air traffic control towers must comply with Table 412.3.1. 3 The maximum height of open parking garages must comply with Table 406.5.4.

H. FIRE PROTECTION REQUIREMENTS

Table with columns: SEPARATION DISTANCE, RATING (REQUIRED, PROVIDED, W/ REDUCTION), DETAIL # & SHEET #, DESIGN # FOR ASSEMBLY, DESIGN # FOR PENETRATION, DESIGN # FOR JOINTS. Rows for Structure/Columns/Girders/Trusses, Bearing Walls, Roof Construction, etc.

1 Indicate section number permitting reduction.

L. PERCENTAGE OF WALL OPENINGS

Table with columns: FIRE SEPARATION DISTANCE FROM PROPERTY LINES, DEGREE OF OPENINGS PROTECTION, ALLOWABLE AREA (%), ACTUAL SHOWN ON PLANS (%). Rows for North, East, South, West.

J. LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING [] NO [] YES EXIT SIGNS [] NO [] YES FIRE ALARM [] NO [] YES SMOKE DETECTION SYSTEMS: [] NO [] YES [] PARTIAL CARBON MONOXIDE DETECTION: [] NO [] YES

K. LIFE SAFETY PLAN REQUIREMENTS

■ FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7) ■ ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON THE SITE PLAN) ■ EXIT ACCESS TRAVEL DISTANCES (1017) ■ COMMON PATH OF TRAVEL DISTANCES (TABLES 1006.2.1 & 1006.3.2(1)) ■ DEAD END LENGTHS (1020.4) ■ CLEAR EXIT WIDTHS FOR EACH EXIT DOOR ■ MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3) ■ ACTUAL OCCUPANT LOAD FOR EACH EXIT DOOR ■ A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION ■ LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10) ■ LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1010.1.9.7) ■ LOCATION OF DOORS WITH ELECTROMAGNETIC EGRESS LOCKS (1010.1.9.9) ■ LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES ■ LOCATION OF EMERGENCY ESCAPE WINDOWS (1030) ■ THE SQUARE FOOTAGE OF EACH FIRE AREA (202) ■ THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT FOR OCCUPANCY CLASSIFICATION I-2 (407.5) ■ NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE.

L. ACCESSIBLE DWELLING UNITS (SECTION 1107)

Table with columns: TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED.

M. ACCESSIBLE PARKING (SECTION 1106)

Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES (REQUIRED, PROVIDED), # OF ACCESSIBLE SPACES PROVIDED (REGULAR WITH 5' AISLE, VAN SPACES WITH 13' AISLE, 8' AISLE), TOTAL # ACCESSIBLE PROVIDED.

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

EXCEPT 1 & 2-FAMILY DWELLINGS & TOWNHOUSES

A. PROJECT INFORMATION

NAME OF PROJECT: 3D COMMUNITY CHURCH ADDRESS: 658 GRAHAM ROAD SANFORD NC 27311 PROPOSED USE: CHURCH OWNER / AUTHORIZED AGENT: 3D COMMUNITY CHURCH / CHARLES HICKMAN EMAIL: PASTORCHARLIE@3DCOMMUNITYCHURCH.COM PHONE: 919.353.2060 OWNED BY: [] CITY [] COUNTY [] STATE [] PRIVATE CODE ENFORCEMENT JURISDICTION: [] CITY [] COUNTY [] STATE

B. DESIGN PROFESSIONAL INFORMATION

Table with columns: DESIGNER, FIRM, NAME, LICENSE, PHONE, EMAIL. Rows for Architectural, Civil, Fire Alarm, Plumbing, Mechanical, Sprinkler, Structural.

C. CODE DATA

2018 NC BUILDING CODE: [] NEW BUILDING [] ADDITION [] 1ST TIME INTERIOR COMPLETION [] CORE & SHELL [] PHASE CONSTRUCTION CORE & SHELL 2018 NC EXISTING BUILDING CODE: [] N/A [] PRESCRIPTIVE [] REPAIR [] CHAPTER 14 [] ALTERATION LEVEL I [] ALTERATION LEVEL II [] ALTERATION LEVEL III [] HISTORIC PROPERTY [] CHANGE OF USE CONSTRUCTED (DATE): CURRENT OCCUPANCY(S) (CH 3): RENOVATED (DATE): PROPOSED OCCUPANCY(S) (CH 3):

RISK CATEGORY:

CURRENT [] I [] II [] III [] IV PROPOSED [] I [] II [] III [] IV

D. BASIC BUILDING DATA

CONSTRUCTION TYPE: [] I-A [] I-B [] II-A [] II-B [] III-A [] III-B [] IV [] V-A [] V-B [] I-B [] II-B [] III-B [] IV [] V-B SPRINKLERS: [] NO [] YES [] PARTIAL [] NFPA 13 [] NFPA13R [] NFPA13D STANDPIPES: [] NO [] YES CLASS: [] I [] II [] III [] WET [] DRY FIRE DISTRICT: [] NO [] YES FLOOD HAZARD AREA: [] NO [] YES SPECIAL INSPECTIONS REQUIRED: [] NO [] YES

E. GROSS BUILDING AREA

Table with columns: FLOOR, EXISTING (SF), NEW (SF), SUBTOTAL (SF). Rows for 1st Floor and Total.

F. ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S): ASSEMBLY (303) [] A-1 [] A-2 [] A-3 [] A-4 [] A-5 BUSINESS (304) [] B EDUCATIONAL (305) [] E FACTORY (306) [] F-1 MODERATE [] F-2 LOW HAZARDOUS (307) [] H-1 DETONATE [] H-2 DEFLAGRATE [] H-3 COMBUST [] H-4 HEALTH [] H-5 HPM INSTITUTIONAL (308) [] I-1 CONDITION: [] 1 [] 2 [] 2 CONDITION: [] 1 [] 2 [] 3 CONDITION: [] 1 [] 2 [] 3 [] 4 [] 5 [] I-4 [] M MERCANTILE (309) [] M RESIDENTIAL (310) [] R-1 [] R-2 [] R-3 [] R-4 STORAGE (311) [] S-1 MODERATE [] S-2 LOW [] HIGH-PILED [] PARKING GARAGE [] OPEN [] ENCLOSED [] REPAIR GARAGE UTILITY & MISC (312) [] U ACCESSORY OCCUPANCY CLASSIFICATION(S): INCIDENTAL USES (TABLE 509): SPECIAL USES (CHAPTER 4): SPECIAL PROVISIONS (CHAPTER 5): MIXED OCCUPANCY: [] NO [] YES SEPARATION: 2 HR. EXCEPTION: [] NON-SEPARATED USE (508.3) [] SEPARATED USE (508.4) The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building. See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

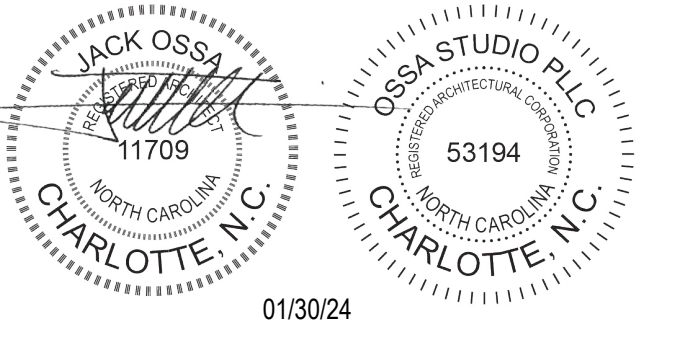
Actual Area of Occupancy A / Allowable Area of Occupancy A + Actual Area of Occupancy B / Allowable Area of Occupancy B ≤ 1 4.873 / 9.500 + 7.025 / 23.000 = 0.81 ≤ 1

Table with columns: STORY NO., DESCRIPTION & USE, AREA PER STORY (ACTUAL), AREA PER TABLE 506.2 4, AREA FOR FRONTAGE INCREASE 1,5, ALLOWABLE AREA OR UNLIMITED 2,3. Rows for 1st Floor Assembly (A-3) and 1st Floor Business (B).

1 Frontage area increases from Section 506.2 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F) b. Total Building Perimeter = (P) c. Ratio (F/P) = (F/P) d. W = Minimum width of public way = (W) e. Percent of frontage increase I = 100 (F/P - 0.25) x W/30 = (%) 2 Unlimited area applicable under conditions of Section 507. 3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2). 4 The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1. 5 Frontage increase is based on the un sprinklered area value in Table 506.2.



4539 HEDGEMORE DRIVE, SUITE 101 CHARLOTTE NC 28209 704.890.2853 WWW.OSSASTUDIO.COM



PROJECT NAME General Contractor ECCLESIA CONSTRUCTION www.ecclesiainc.com 803.327.5670 Civil Engineering HILLIARD ENGINEERING, PLLC www.hilliardep.com 919.352.2834 Structural Engineering PROVIDENCE PARTNERS www.providencpartnersinc.com 704.266.6621 Mechanical, Electrical, Plumbing & Fire Protection ENGINEERING www.enginecture.com 704.287.2193

Table with columns: Date, Description. Rows for 01/30/24 FOR CONSTRUCTION and 1 05/8/24 PERMIT REVIEW COMMENTS



658 GRAHAM ROAD SANFORD NC 27311

Client 3D COMMUNITY CHURCH Project Number 23024.00 Description APPENDIX B

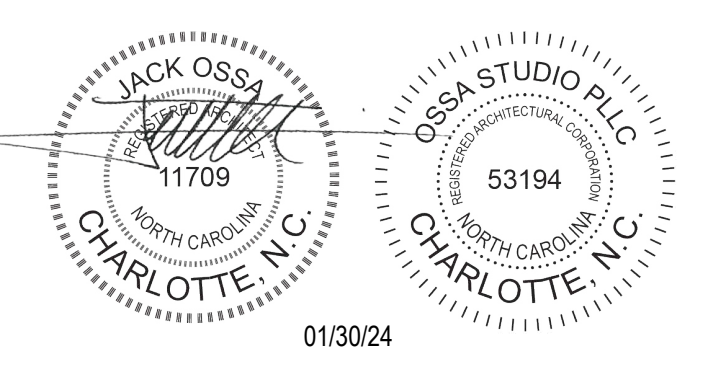
Scale

A00.03



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STUDIO

4539 HEDGEMORE DRIVE, SUITE 101
CHARLOTTE NC 28209
704.890.2653
WWW.OSSASTUDIO.COM



PROJECT TEAM

General Contractor
ECCLESIA CONSTRUCTION
www.ecclesiainc.com
803.327.5670

Civil Engineering
HILLIARD ENGINEERING, PLLC
www.hilliarde.com
919.352.2834

Structural Engineering
PROVIDENCE PARTNERS
www.providencepartnersinc.com
704.266.6621

Mechanical, Electrical, Plumbing & Fire Protection
ENGINEERING
www.enginture.com
704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
05/8/24	PERMIT REVIEW COMMENTS
10/14/24	RTAP NO. 1

Project Name

3D
community church
making church come alive

658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

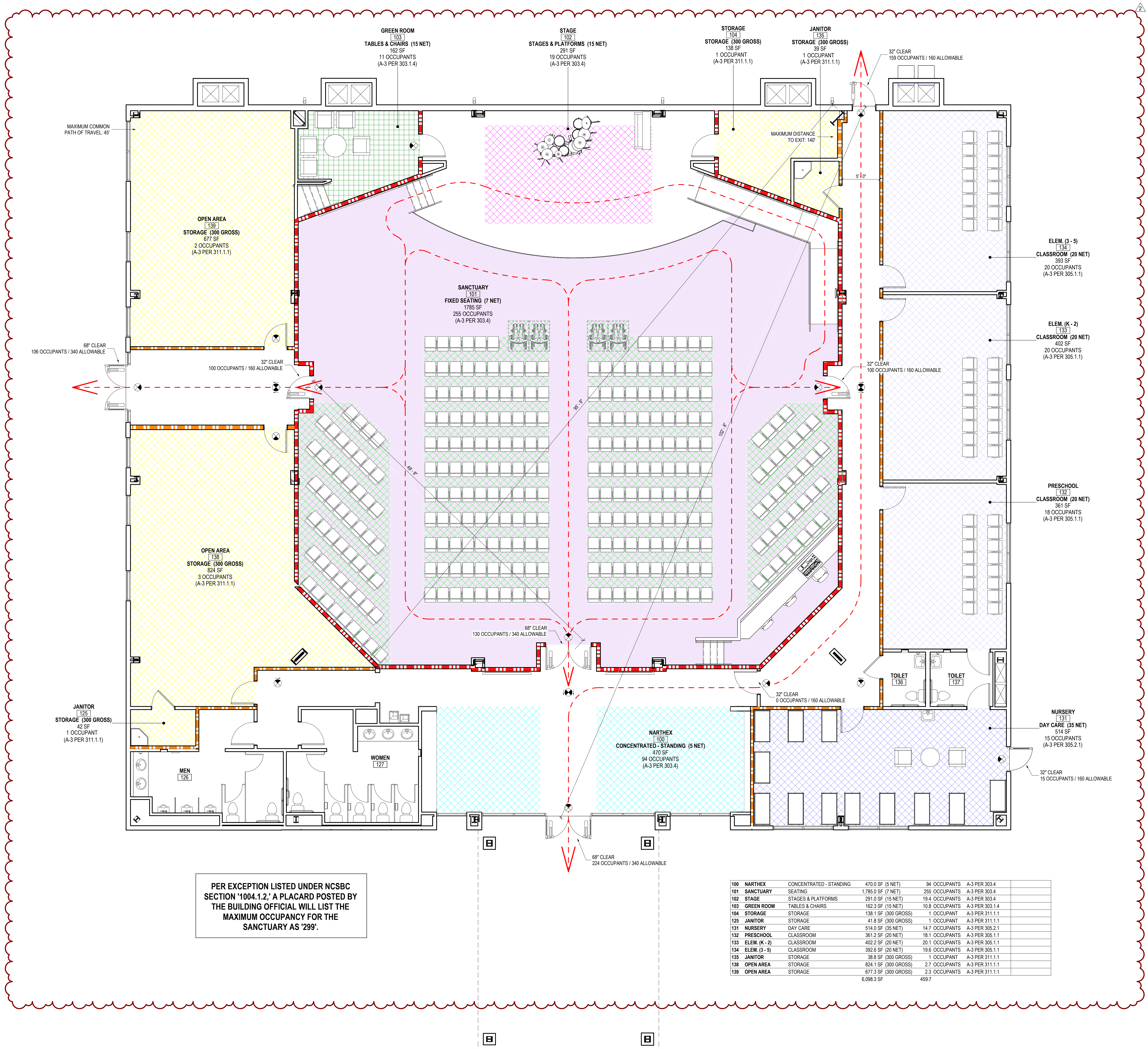
LIFE SAFETY PLAN

Scale

As indicated

A00.04

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PER EXCEPTION LISTED UNDER NCSBC SECTION '1004.1.2,' A PLACARD POSTED BY THE BUILDING OFFICIAL WILL LIST THE MAXIMUM OCCUPANCY FOR THE SANCTUARY AS '299'.

Room Number	Room Name	Area	Occupants	Code
100	NARTHEX CONCENTRATED - STANDING	470.0 SF (5 NET)	94 OCCUPANTS	A-3 PER 303.4
101	SANCTUARY SEATING	1,785.0 SF (7 NET)	255 OCCUPANTS	A-3 PER 303.4
102	STAGE STAGES & PLATFORMS	291.0 SF (15 NET)	19.4 OCCUPANTS	A-3 PER 303.4
103	GREEN ROOM TABLES & CHAIRS	162.3 SF (15 NET)	10.8 OCCUPANTS	A-3 PER 303.1.4
104	STORAGE STORAGE	138.1 SF (300 GROSS)	1 OCCUPANT	A-3 PER 311.1.1
125	JANITOR STORAGE	41.8 SF (300 GROSS)	1 OCCUPANT	A-3 PER 311.1.1
131	NURSERY DAY CARE	514.0 SF (35 NET)	14.7 OCCUPANTS	A-3 PER 305.2.1
132	PRESCHOOL CLASSROOM	361.2 SF (20 NET)	18.1 OCCUPANTS	A-3 PER 305.1.1
133	ELEM. (K - 2) CLASSROOM	402.2 SF (20 NET)	20.1 OCCUPANTS	A-3 PER 305.1.1
134	ELEM. (3 - 5) CLASSROOM	392.6 SF (20 NET)	19.6 OCCUPANTS	A-3 PER 305.1.1
135	JANITOR STORAGE	38.8 SF (300 GROSS)	1 OCCUPANT	A-3 PER 311.1.1
138	OPEN AREA STORAGE	824.1 SF (300 GROSS)	2.7 OCCUPANTS	A-3 PER 311.1.1
139	OPEN AREA STORAGE	677.3 SF (300 GROSS)	2.3 OCCUPANTS	A-3 PER 311.1.1
		6,086.3 SF	459.7	

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CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR, WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC, 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC or 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, Steel Framing Members*, is used, Nonbearing Wall Rating is limited to 1 H. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

CGC INC — Type SHX.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in. or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB LBG

5C. Gypsum Board* — (For Use With Item 2C) Rating Limited to 1 Hour: 5/8 in. thick, 48 in. wide. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.

CGC INC — Type SCX.

UNITED STATES GYPSUM CO — Type SCX.

USG MEXICO S A DE C V — Type SCX.

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.

UNITED STATES GYPSUM CO — Type USGX.

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 12 in. or 5/8 in. thick products are specified. For direct attachment only to steel studs Item 2B, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.

NEW ENGLAND LEAD BURNING CO INC, DBA

NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1G and 2F and limited to 1 Hour Rating only and gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX.

5G. Gypsum Board* — (As an alternate to Item 5) — For use with Items 1G and 2F only. Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 1/2 in. The thickness and number of layers for the 2, 3, 4 and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Item 2F	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type SCX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2B, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. Gypsum Board* — (As an alternate to Item 5) - Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.

CGC INC — Type ULX

UNITED STATES GYPSUM CO — Type ULX

USG MEXICO S A DE C V — Type ULX

6. Fasteners — (Not shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Three-layer systems: First layer: 1 in., long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. Four-layer systems: First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6A. Fasteners — (Not shown) — For use with Item 2A - Type S or S-12 steel screws used to attach panels to studs (Item 2A). Single layer systems: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 1/2 in. OC with additional screws 1 in. and 2-1/2 in. from edges of the board when panels are horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems applied vertically: First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. Two layer systems applied horizontally: First layer: 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 1-1/4 in. from each edge of the board. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC starting 8 in. from each edge of the board with an additional screw placed 8 in. from first layer. Three-layer systems: First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board. Four-layer systems: First layer: 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer: 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer: 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. thick panels, spaced 24 in. OC. Fourth layer: 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. For all layers, an additional screw shall be placed 1-1/4 in. from each edge of the board.

7. Furring Channels — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A and 5E.

7A. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC — Types RSIC-1, RSIC-V.

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach furring channels (Item 7B) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL, INC — Type Icomax

7C. Framing Members* — Optional - Not Shown - Used as an alternate method to attach resilient channels (Item 7). Clips attached at each intersection of the resilient channel and the steel studs (Item 2). Resilient channels are friction fitted into clips, and then clips are secured to the steel stud with min. 1 in. long Type S-12 steel screws through the center hole of the clip and the resilient channel flange.
KEENE BUILDING PRODUCTS CO INC — Type RC Assurance.

7D. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach furring channels (Item 7A) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
FLITECO INC — Type GENIECLIP.

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) - Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

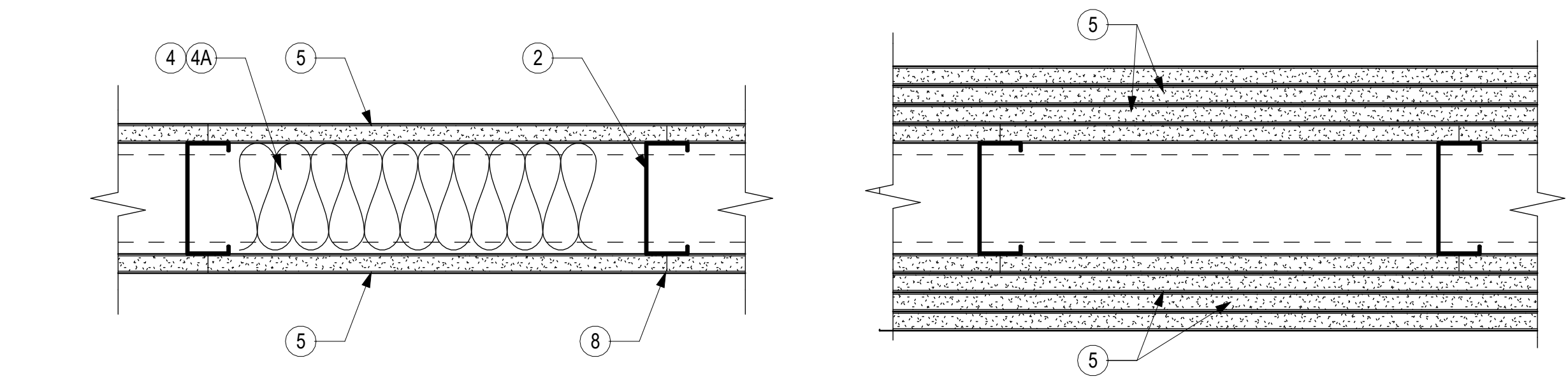
11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.0625 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 6) and optional at remaining stud locations.

12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) - Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 11) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

12A. Lead Discs — (Not Shown, for use with Item 5H) Max 5/16 in. diam by max 0.0625 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5E) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of the stud, folded back flange, and the back face of the stud. Tabs required at each location where a screw that secures the gypsum boards, (Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.
*bearing the UL Classification Mark



- Floor and Ceiling Runners — (Not shown) — For use with Item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
1A. Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped, min. 3-5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max. Effective thickness is 0.034 in.
CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.
- Framing Members* - Floor and Ceiling Runners — (Not shown - In lieu of Item 1) — For use with Item 2A, proprietary channel shaped, min. 2-1/2 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.
- Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperTrack™
- Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CRACO MFG INC — SmartTrack™
MARINOWARE, DIV OF WARE INDUSTRIES
INC — Viper25™ Track
TELLING INDUSTRIES L L C — Viper25™ Track
- Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2D, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
MARINOWARE, DIV OF WARE INDUSTRIES
INC — Viper20™ Track
TELLING INDUSTRIES L L C — Viper20™ Track
- Framing Members* - Floor and Ceiling Runners — (Not shown) — In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System

- CONSOLIDATED FABRICATORS CORP.
BUILDING PRODUCTS DIV — Type SUPREME Framing System
QUAL RUN BUILDING MATERIALS INC — Type SUPREME Framing System
SCAFFO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System
UNITED METAL PRODUCTS INC — Type SUPREME Framing System
- Floor and Ceiling Runners — (Not shown)—For use with Item 2B- Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.
1G. Framing Members* - Floor and Ceiling Runners — (Not shown, As an alternate to Item 1) — For use with Items 2F, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK
DMFCOWBS L L C — ProTRAK
MBA BUILDING SUPPLIES — ProTRAK
SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK
TELLING INDUSTRIES L L C — TRUE-TRACK™
- Framing Members* - Floor and Ceiling Runners — Not shown - In lieu of Item 1 — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size, with 1-1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDIETRICH BUILDING SYSTEMS — The Edge

- Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
- Framing Members* - Steel Studs — In lieu of Item 2 - Proprietary channel shaped studs, min. depth as indicated under Item 5, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height. Allowable use of studs is shown in the table below. For direct attachment of gypsum board only. Effective thickness is 0.034 in.
CLARKDIETRICH BUILDING SYSTEMS — UltraSTEEL®.
- Steel Studs — (As an alternate to Item 2, For use with Items 5B & 5E) Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.
- Framing Members* - Steel Studs — (As an alternate to Item 2, For use with Items 5C or 5I) - Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than the assembly height and installed with a 1/4 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.

- CALIFORNIA EXPANDED METAL PRODUCTS CO — ViperStud™
CRACO MFG INC — SmartStud™
MARINOWARE, DIV OF WARE INDUSTRIES
INC — Viper25™
TELLING INDUSTRIES L L C — Viper25™
- Framing Members* - Metal Studs — Not shown - In lieu of Item 2 — For use with Item 1D, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
MARINOWARE, DIV OF WARE INDUSTRIES
INC — Viper20™
TELLING INDUSTRIES L L C — Viper20™
- Framing Members* — Steel Studs — In lieu of Item 2 - For use with Item 1E- Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME Framing System
CONSOLIDATED FABRICATORS CORP.
BUILDING PRODUCTS DIV — Type SUPREME Framing System
QUAL RUN BUILDING MATERIALS INC — Type SUPREME Framing System
SCAFFO STEEL STUD MANUFACTURING CO — Type SUPREME Framing System
STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME Framing System
UNITED METAL PRODUCTS INC — Type SUPREME Framing System

- Framing Members* — Steel Studs — (Not shown, As an alternate to Item 2) — For use with Items 1G, 5F or 5G or 5I only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD
DMFCOWBS L L C — ProSTUD
MBA BUILDING SUPPLIES — ProSTUD
SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD
TELLING INDUSTRIES L L C — TRUE-STD™
- Framing Members* - Metal Studs — Not shown - In lieu of Item 2 — For use with Item 1H, proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge
- Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) - (Not Shown) - 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC P51 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC, in the perimeter and 12 in. OC in the field. When used, fastener lengths for gypsum panels increased by min. 1/2 in.

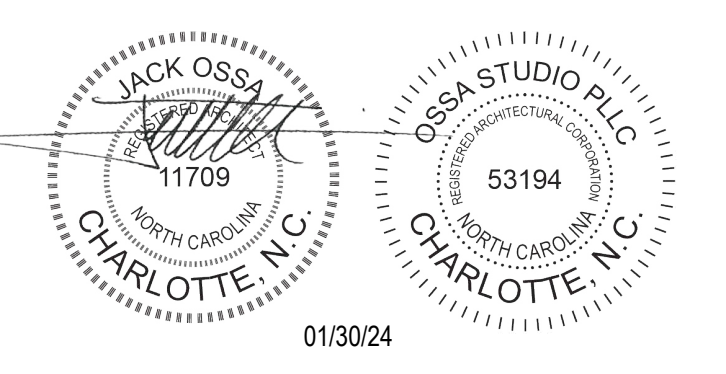
- Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
- Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.
- Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 1/2 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2, 2D, 2E, 2G and 2F	Min Stud Depth, in. Item 2A	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	3-5/8	1 layer, 5/8 in. thick	Optional
1	2-1/2	3-5/8	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	3-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 1/2 in. thick	Optional
2	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
2	3-1/2	3-5/8	1 layer, 3/4 in. thick	3 in.
3	1-5/8	2-1/2	3 layers, 1/2 in. thick	Optional
3	1-5/8	2-1/2	2 layers, 3/4 in. thick	Optional
3	1-5/8	2-1/2	3 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	2 layers, 5/8 in. thick	Optional
4	1-5/8	2-1/2	4 layers, 1/2 in. thick	Optional
4	2-1/2	2-1/2	2 layers, 3/4 in. thick	2 in.

Gypsum Board Protection on Each Side of Wall



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10/30/24

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Date	Description
10/30/24	FOR CONSTRUCTION

Project Name

community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number
23024.00

Description
UL PARTITION DETAILS

Scale
NOT TO SCALE

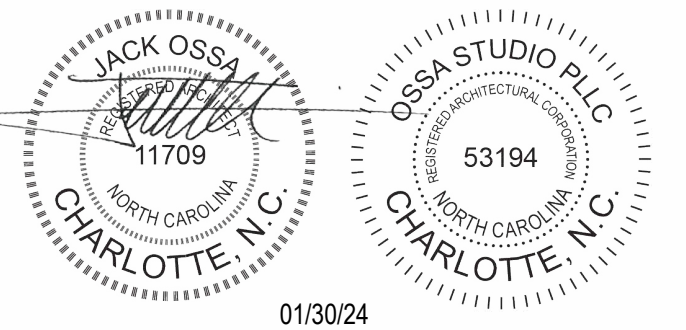
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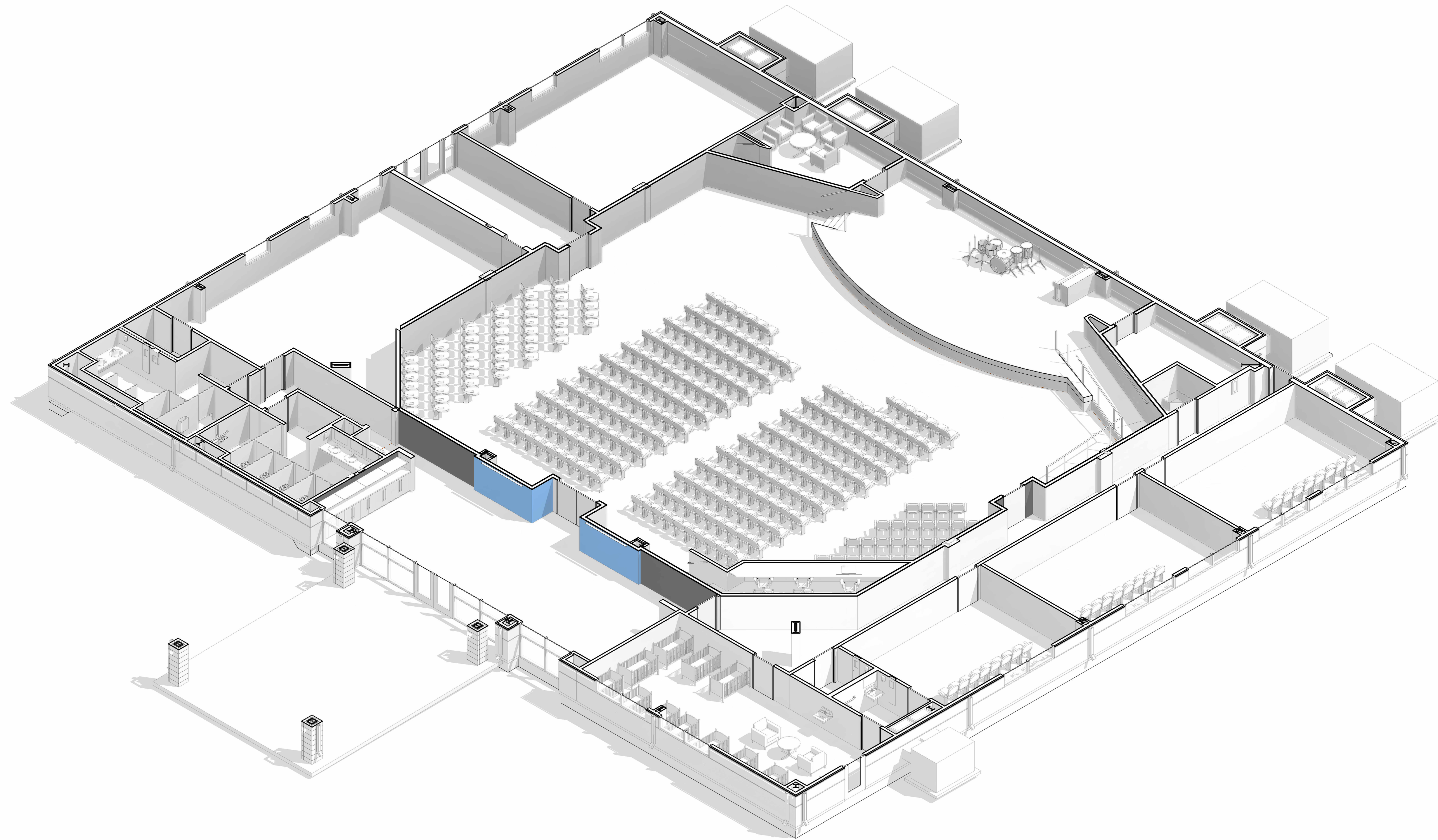
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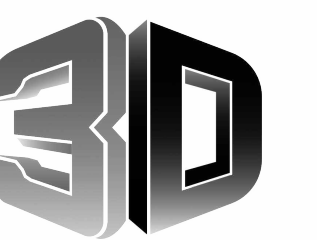
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Project Name



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3D COMMUNITY CHURCH

Project Number

23024.00

Description

3D PLAN SECTION

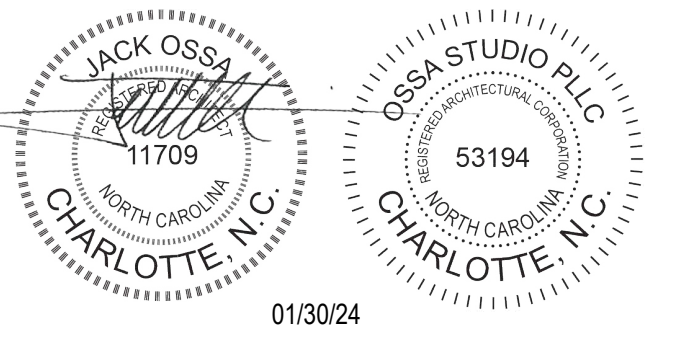
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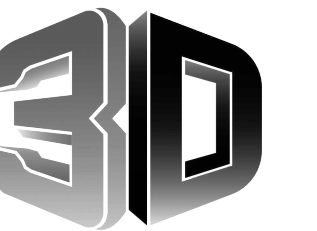
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3D COMMUNITY CHURCH

Project Number

23024.00

Description

EXTERIOR RENDERINGS

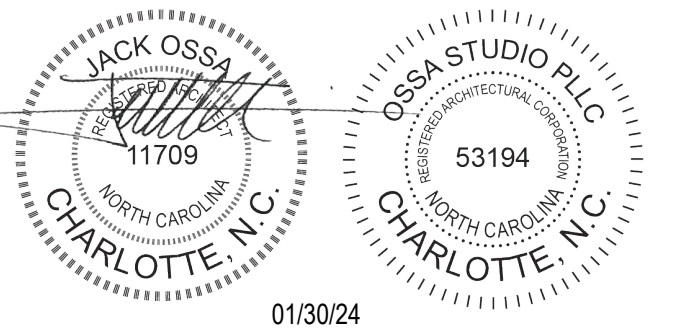
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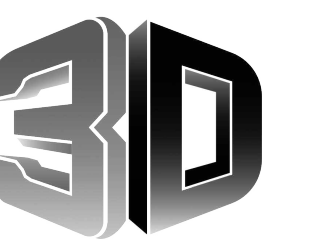
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Date	Description
01/30/24	FOR CONSTRUCTION

Project Name



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Client

3D COMMUNITY CHURCH

Project Number

23024.00

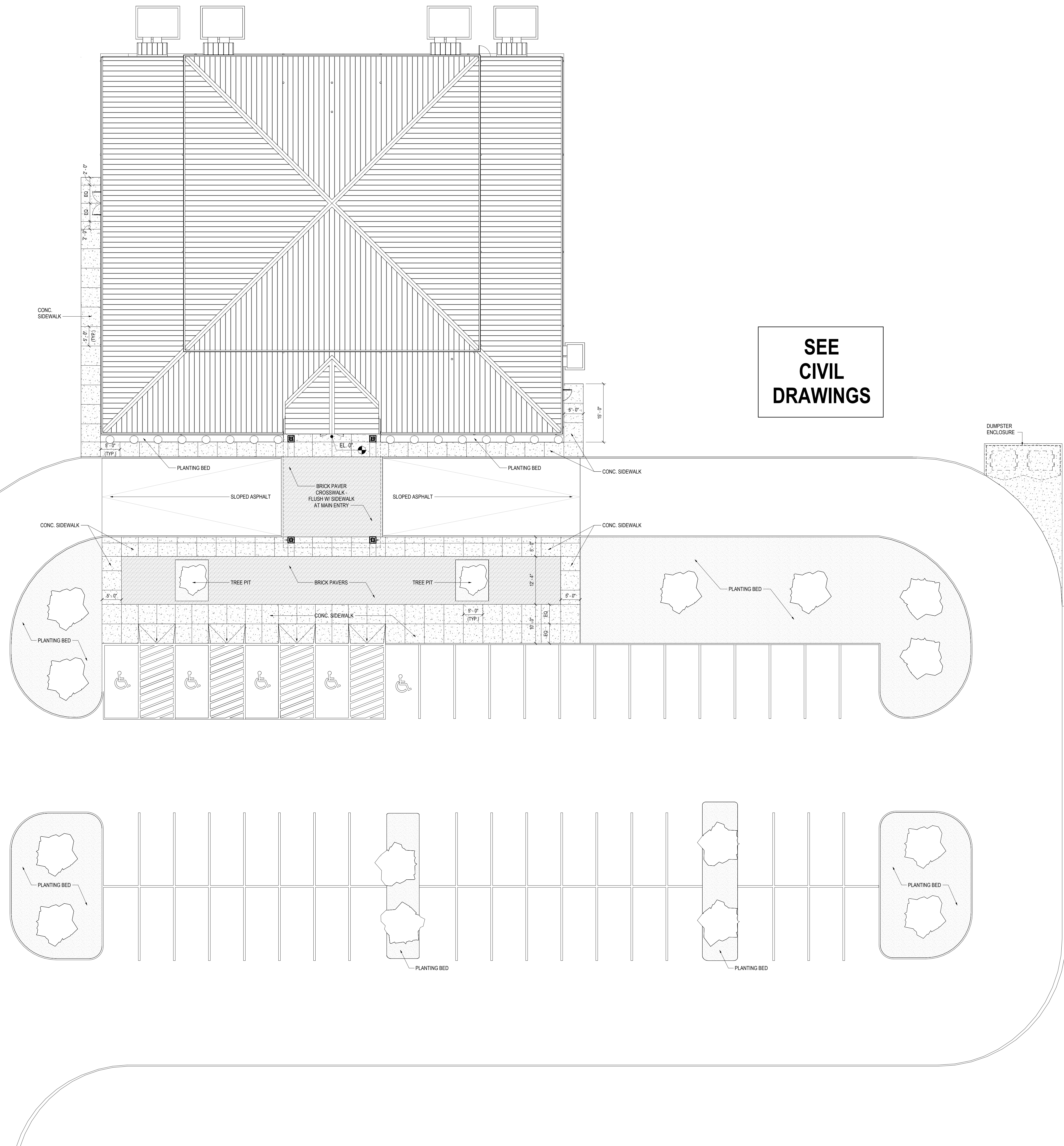
Description

ARCHITECTURAL SITE PLAN

Scale

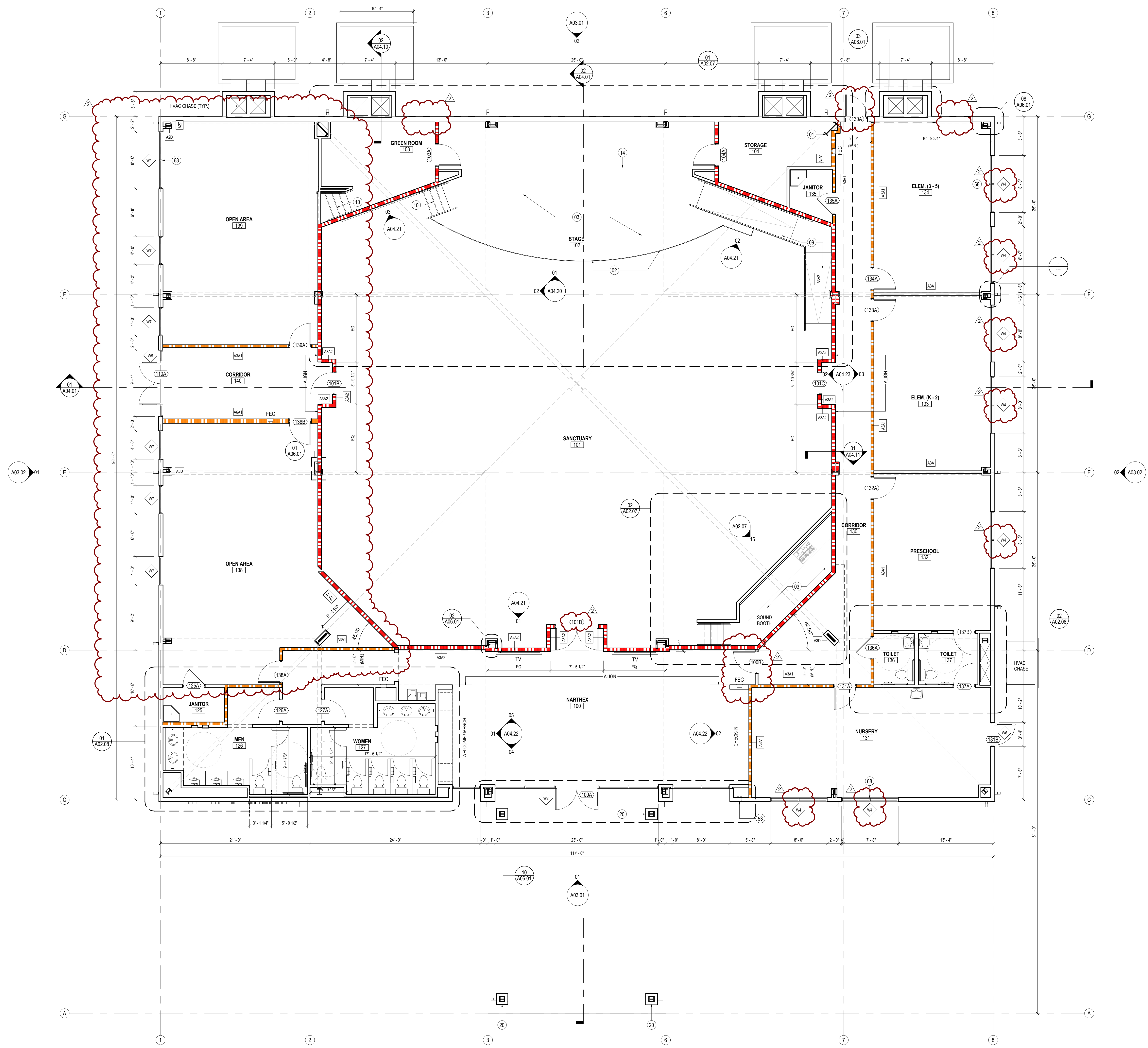
3/32" = 1'-0"

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01 ARCHITECTURAL SITE PLAN

SCALE: 3/32" = 1'-0"



SHEET NOTES

- 01 STRUCT. STL. - PAINT BLACK WHERE EXPOSED
- 02 GWB AND MDF STAGE APRON - PAINT BLACK
- 03 ELEVATED FLOOR w/ LVT FINISH ON 1/4" T. TEMPERED MASONITE, 1/2" HOMASOTE, AND 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 04 SLOPED GWB "CLOUD" AT UNDERSIDE OF STL. STRUCT.
- 07 MTL. PANEL CEILING SYSTEM MTL. BLDG. MANUF. LIGHTING TRUSS (SEE STRUCT.)
- 08 RAMP w/ LVT FINISH ON (2) LAYERS 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 09 STAIR w/ LVT FINISH ON (2) LAYERS 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 11 GWB CONTROL JOINT
- 12 EXPOSED ROOF INSULATION
- 13 MTL. Z PURLIN (TYP.)
- 14 SUSPENDED PROJECTION SCREEN
- 15 LED CYLINDER PENDANT LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 16 LED WALL SCONCE LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 17 RECTANGULAR BEAM LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 18 RECESSED LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 20 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS.) ON MTL. STUD FURRING AT STL. COLUMN
- 21 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 22 REVEAL (TYP.)
- 23 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS.) W/ 1-1/2" AIR SPACE, 2" RIGID INSUL., AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 24 STANDING SEAM MTL. ROOF (OWNER FURNISHED)
- 25 CONT. R-11 VINYL-FACED BLANKET INSUL. ON R-3 THERMAL SPACER BLOCKS (THERMAL SPACER BLOCKS TYP. AT EA. PURLIN)
- 26 R-19 FIBERGLASS BLANKET INSUL. BET. PURLINS (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 27 CONT. BLACK FIBER-REINFORCED VAPOR BARRIER MEMBRANE AT BOTTOM OF PURLINS
- 28 GUTTER AND FLASHING BY MTL. BLDG. MANUF.
- 29 DOWNSPOUTS BY MTL. BLDG. MANUF. (TYP.)
- 31 3/8" T. x 24" D. CLEAR TEMPERED GLASS SHELVES (TYP.)
- 32 ADJUSTABLE SHELF BRACKETS & FLUSH-MOUNTED SHELF TRACKS (TYP.)
- 33 RAKES INSIDE WALL MOUNT EH COUNTER SUPPORT BRACKETS
- 34 OPEN TO UPPER ROOF ABOVE
- 35 MTL. C PURLIN BY MTL. BLDG. MANUF.
- 36 PRE-FIN. COUNTER FLASHING
- 37 TIE-IN TRIM BY MTL. BLDG. MANUF.
- 38 BACK-UP PLATE BY MTL. BLDG. MANUF.
- 39 OUTSIDE MTL. CLOSURE BY MTL. BLDG. MANUF.
- 41 STL. SPANREL ANGLE AT BOTTOM OF MTL. Z PURLINS BY MTL. BLDG. MANUFACTURER
- 42 COMPRESSIBLE FILLER
- 43 NEW CONC. SIDEWALK
- 44 ALUM. DOOR AS SCHEDULED
- 45 DOOR THRESHOLD AS SCHEDULED - SET ON FULL BED OF MASTIC
- 46 TURNED-DOWN CONC. SLAB (SEE STRUCT.)
- 47 STRUCT. STL. COLUMN
- 48 STRUCT. STL. MOMENT FRAME - PAINT BLACK WHERE EXPOSED
- 49 SOUND ATTENUATION BLANKET (TYP.)
- 51 LINEAR SLOT RETURN (SEE MECH.)
- 52 MTL. SUPPORT BANDING - SPACE AS DIMENSIONED ON ENLARGED RCP (TYP.)
- 53 UNHINGED / RECESSED KNOXBOX (ALUM. FIN.)
- 54 FLUID-APPLIED AIR BARRIER MEMBRANE
- 55 JOINT SEALANT AND BACKER ROD
- 56 ALUM. STOREFRONT SYSTEM
- 57 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 6" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 59 E.I.F.S. DRAINABLE TRACK
- 60 THRU-WALL STAINLESS STL. FLASHING W/ DRIP EDGE - FLASHED INTO AIR AND WATER BARRIER MEMBRANE
- 61 R-19 FIBERGLASS BLANKET INSUL. BET. MTL. STUD FRAMING (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 62 STANDING SEAM MTL. ROOF (OWNER FURNISHED) ON 3/4" FRP PLYWOOD ON 6" MTL. STUD FRAMING
- 68 ROLLERSHADE AT EA. EXT. WINDOW (TYP.)
- 69 EAVE TRIM, PANEL CAP TRIM, AND FLASHING BY MTL. BLDG. MANUF.
- 70 MTL. STUD BRACE (SEE STRUCT.)

GENERAL NOTES

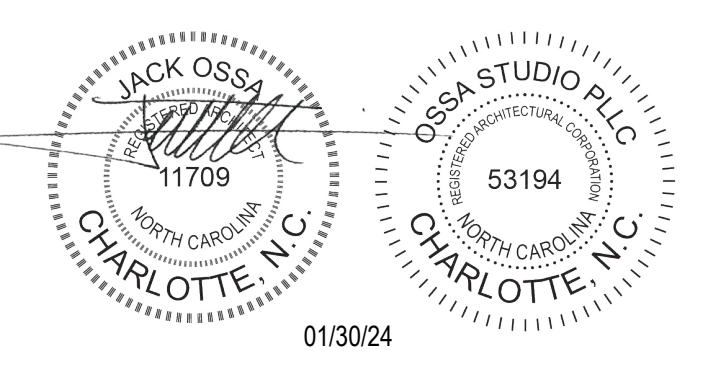
- A DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, NOTIFY ARCHITECT PRIOR TO PARTITION INSTALLATION.
- B PROVIDE MINBLINDS AT ALL EXTERIOR WINDOWS
- C ALL DIMENSIONS AND ALIGNMENTS ARE TO FINISHED FACE OF WALL, INCLUDING FINISHED FACE OF MILLWORK PANELING WHERE OCCURS
- D PROVIDE FIRE RETARDANT TREATED 3/4" PLYWOOD BLOCKING AS REQUIRED FOR: WALL HUNG MILLWORK AND EQUIPMENT
- E ALL FINISHES TO MEET NCSCB CHAPTER 8 TABLE 803.11 INTERIOR WALL AND CEILING REQUIREMENTS BY OCCUPANCY

WALL LEGEND

- 1 HR. RATED PARTITION - UL419
- 2 HR. RATED PARTITION - UL419



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Date	Description
01/30/24	FOR CONSTRUCTION
05/8/24	PERMIT REVIEW COMMENTS
10/14/24	RTAP NO. 1

Project Name

community church
making church come alive

658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

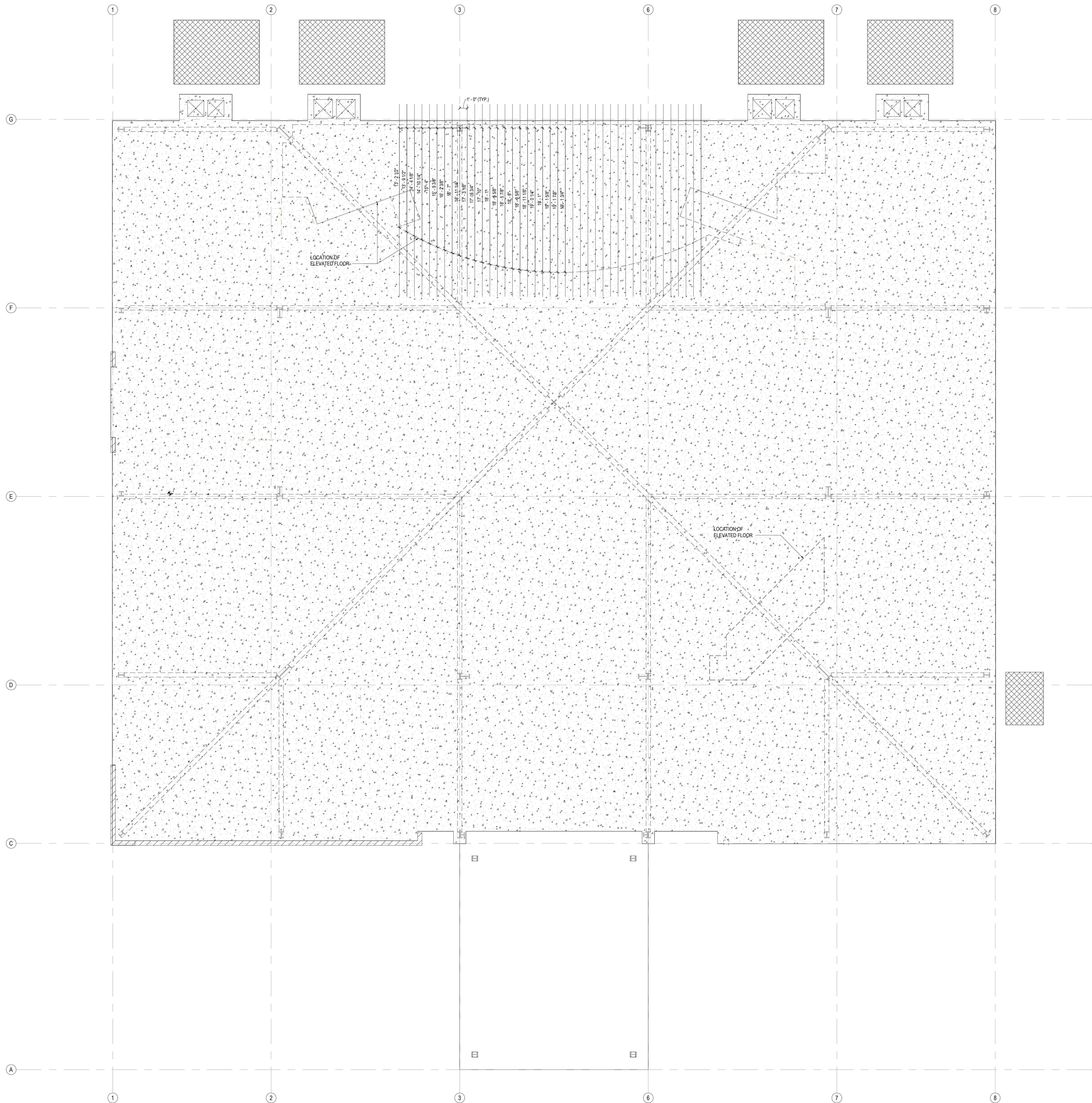
Description

CONSTRUCTION PLAN

Scale

As indicated





A02.01



SHEET NOTES

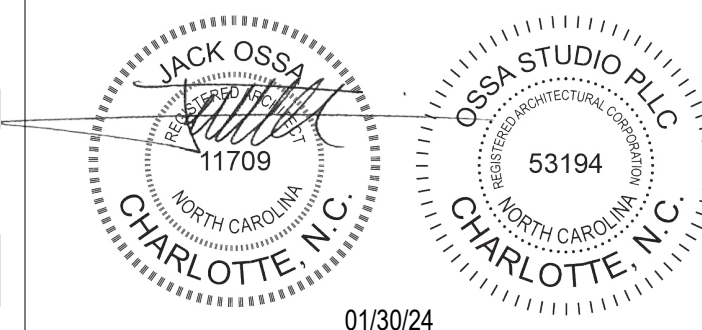
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- 02 GWB AND MDF STAGE APRON - PAINT BLACK
- 03 ELEVATED FLOOR w/ LVT FINISH ON 1/4" T. TEMPERED MASONITE, 1/2" HOMASOTE, AND 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 04 SLOPED GWB "CLOUD" AT UNDERSIDE OF STL. STRUCT.
- 07 MTL. PANEL CEILING SYSTEM MTL. BLDG. MANUF.
- 08 LIGHTING TRUSS (SEE STRUCT.)
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- 25 CONT. R-11 VINYL-FACED BLANKET INSUL ON R-3 THERMAL SPACER BLOCKS (THERMAL SPACER BLOCKS TYP. AT EA. PURLIN)
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LEGEND

-  CONC. SLAB - FINISH FLOOR (0'-0") (SEE STRUCT. DWGS.)
-  BRICK SUPPORT LEDGE (0'-8") (SEE STRUCT. DWGS.)
-  MECH / ELEC. SLAB (SEE STRUCT. DWGS.)
-  SLAB CORE FOR ELEC. OUTLET



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Date	Description
10/30/24	FOR CONSTRUCTION

Project Name

3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

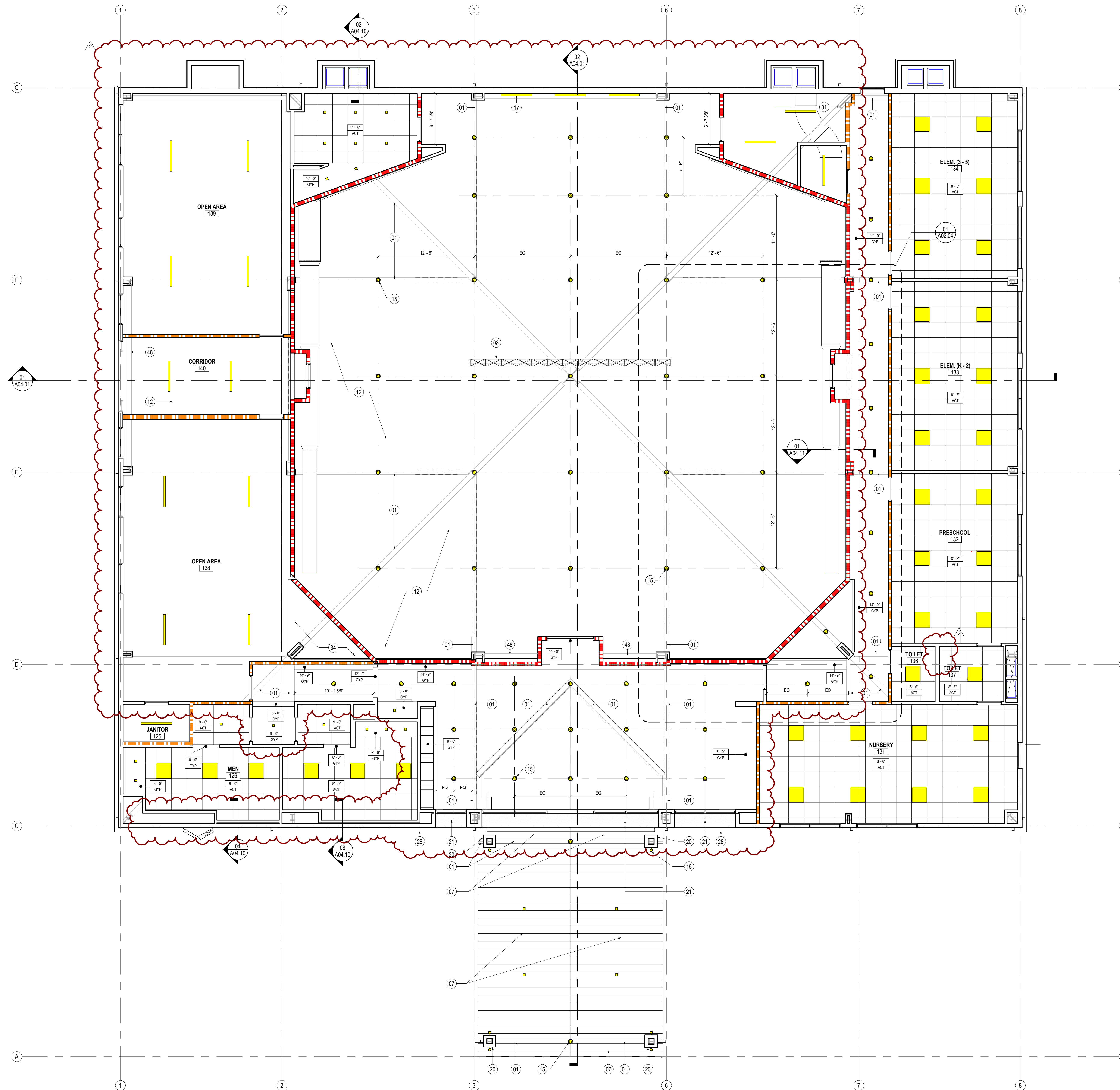
Description

SLAB PLAN

Scale

As indicated

A02.02

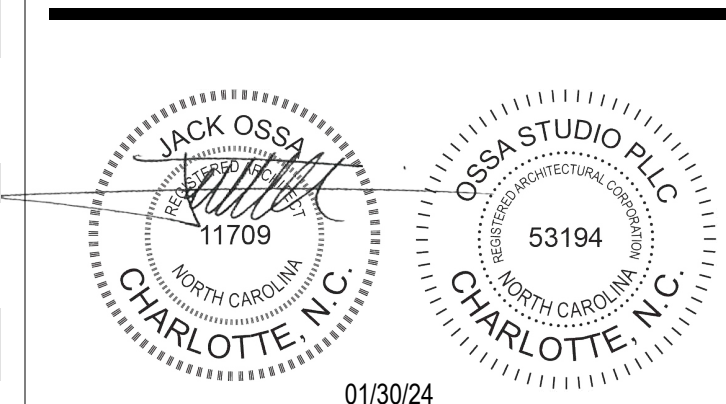


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Date	Description
01/30/24	FOR CONSTRUCTION
05/8/24	PERMIT REVIEW COMMENTS
10/14/24	RTAP NO. 1

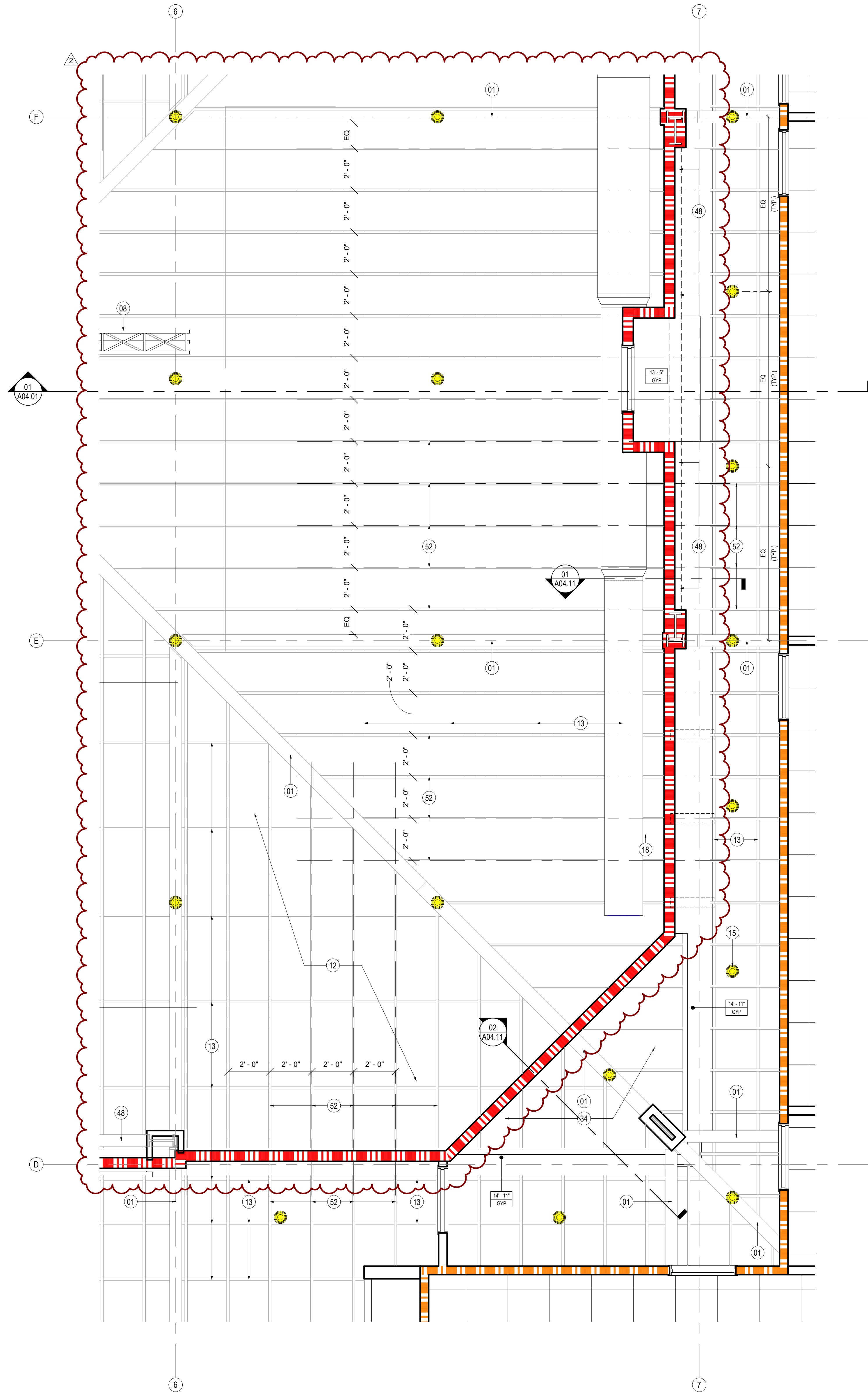
Project Name
3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client
3D COMMUNITY CHURCH
Project Number
23024.00
Description
REFLECTED CEILING PLAN

Scale
As indicated

A02.03

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01 ENLARGED REFLECTED CEILING PLAN
SCALE: 3/8" = 1'-0"

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01/30/24

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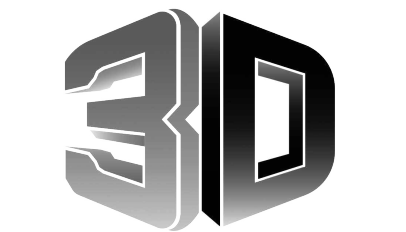
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Date	Description
01/30/24	FOR CONSTRUCTION
2 10/14/24	RTAP NO. 1

Project Name



community church
making church come alive

658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

ENLARGED REFLECTED CEILING PLAN

Scale

3/8" = 1'-0"

A02.04

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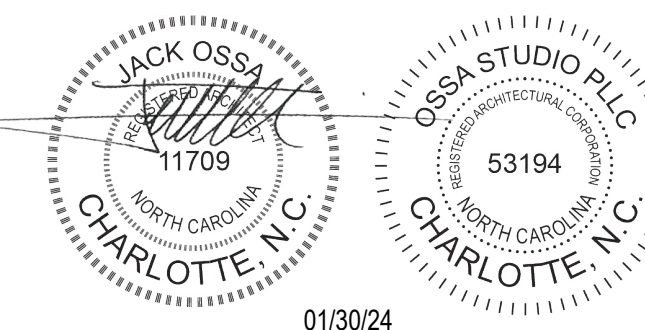
SHEET NOTES

- 100 PROVIDE 1/2" TILE UP TO 5'-0" AT ALL WALLS
- 101 SCHLUTER SCHIENE STRIP FLOOR TRANSITION
- 102 RUBBER FLOOR TRANSITION STRIP



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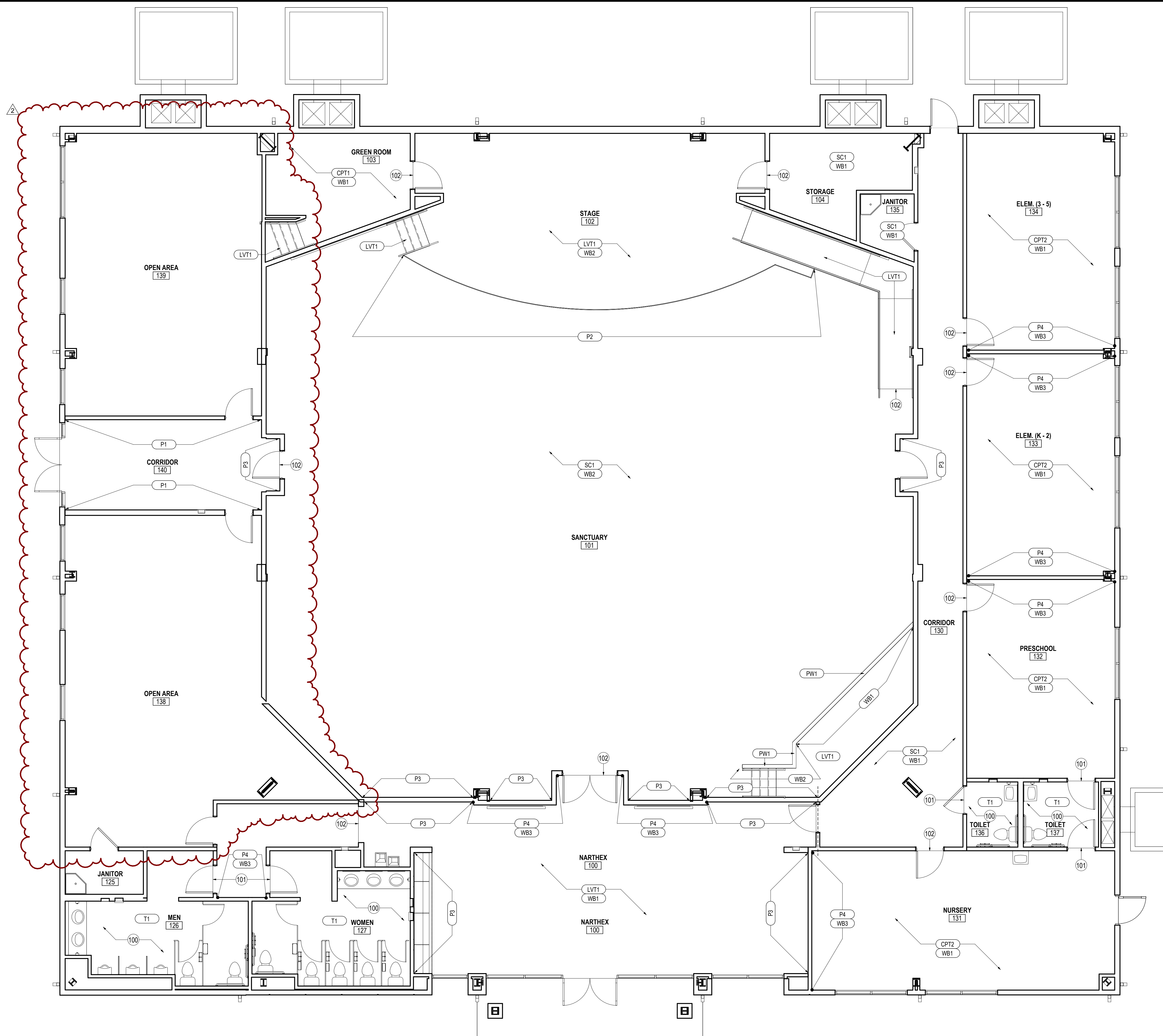
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MATERIALS SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	NAME	COMMENTS	CONTACT
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	CORTEGA #769	24" x 24" - 15/16" PRELUDE XL GRID	
AG1	PRE-FIN ALUMINUM GUTTER	-	-	OWNER FURNISHED	
AP1	SUSPENDED ACOUSTICAL PANEL SYSTEM	ACOUSTICAL PRODUCTS & SYSTEMS	ECCOCORE	AME-28 ANTIQUE WHITE	SCOTT REASON sreason@bbbyrd.com
AS1	ALUMINUM STOREFRONT	YKK	THERMALLY BROKEN	ANODIZED ALUMINUM FINISH - 6 1/4" x 1 1/2" MULLION	
CMU1	CONCRETE MASONRY UNIT	JOHNSON CONCRETE PRODUCTS	BLACK BOULDER JCL-3621	8"x16"x4" GROUND FACE (STACK BOND) w/ HOLCIM SANTEE BLACK S MORTAR	
CPT1	CARPET TILE - GRAY	TARKETT	TARKETT	MONOLITHIC - PROVIDE TARKETT METAL EDGE TRANSITION STRIP AT ALL TRANSITIONS	2'-0" x 2'-0" TILES
CPT2	CARPET TILE - BLUE	TARKETT	TARKETT	MONOLITHIC - PROVIDE TARKETT METAL EDGE TRANSITION STRIP AT ALL TRANSITIONS	2'-0" x 2'-0" TILES
EIFS1	EXTERIOR INSULATION FINISHING SYSTEM	DRYVIT	DPR FINISHES	SANDBLAST - 626A Cloudy Day	
EIFS2	EXTERIOR INSULATION FINISHING SYSTEM	DRYVIT	DPR FINISHES	SANDBLAST - 621 Whale Gray	
GL1	1" INSULATED GLASS	GUARDIAN - SUNGUARD	SNX 6227	TEMPERED LOW E	TYPICAL AT EXTERIOR WALL
GL2	INTERIOR GLASS	-	1/4" TEMPERED GLASS	-	
LVT1	LUXURY VINYL TILE	TARKETT	10' LATITUDE WOOD 4692	6"x6"	
P1	PAINT - WHITE	SHERWIN WILLIAMS	SW 6196 FROSTY WHITE	WALLS : EGGSHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
P2	PAINT - BLACK	SHERWIN WILLIAMS	TBD	WALLS : EGGSHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
P3	PAINT - DARK GRAY	SHERWIN WILLIAMS	SW 7045 SOFTWARE	WALLS : EGGSHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
P4	PAINT - BLUE	SHERWIN WILLIAMS	SW 6958 DYNAMIC BLUE	WALLS : EGGSHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
PL1	PLASTIC LAMINATE	FORMICA	FORMICA	1/2" X 1/2" X 48" DYNAMIC BLUE	
PW1	PAINTED WOOD CAP	-	PAINTED TO MATCH WALL	1X WOOD	
RL1	PRE-FIN ALUMINUM DOWNSPOUT	-	OWNER FURNISHED	-	
SC1	SEALED CONCRETE - SCARIFY TO AN EVEN FLAT SURFACE	-	-	-	
SS1	SOLID SURFACE	FORMICA	406 LUNA BRITTE WHITE	25" X COUNTERTOP LENGTH	1 1/2" FRONT
SS2	SOLID SURFACE	FORMICA	406 LUNA BRITTE WHITE	10" X COUNTERTOP LENGTH - PROVIDE PLYWOOD BACKING	1 1/2" FRONT
SSM1	STANDING SEAM METAL ROOF	-	OWNER FURNISHED	-	
T1	CERAMIC TILE	CROSSVILLE	MAGMA AV295	PROVIDE ANTI-FRACTURE MEMBRANE - STRAIGHT STACK - GROUT: MAPEI 107	PROVIDE SCHLUTER STRIP AT ALL EDGES
T2	CERAMIC TILE	CROSSVILLE	FLANNEL SUIT AV317	PROVIDE ANTI-FRACTURE MEMBRANE - STRAIGHT STACK - GROUT: MAPEI 107	PROVIDE SCHLUTER STRIP AT ALL EDGES
WB1	WALL - GRAY	TARKETT	PERCEPTIONS	RWDC CONTOUR 1A5 COLONIAL GRAY	4.25"
WB2	APPLIED 1/2" MDF	-	PAINTED TO MATCH WALL	SEMI-GLOSS	12" TALL
WB3	WALL BASE - BLUE	TARKETT	PERCEPTIONS	RWDC 18 CONTOUR 18 NAVY BLUE	4.25"

FINISH SCHEDULE

NUMBER	NAME	FLOOR	WALL BASE	WALL FINISH	CEILING	COMMENTS
100	NARTHEX	LVT1	WB1	P1/P3/P4	GWB / OPEN TO STRUCTURE	
101	SANCTUARY	SC1	WB2	P1/P3	GWB / OPEN TO STRUCTURE	
102	STAGE	SC1	WB2	P1	GWB / OPEN TO STRUCTURE	
103	GREEN ROOM	CPT1	WB1	P1	ACT1	
104	STORAGE	SC1	WB1	P1	OPEN TO STRUCTURE	
125	JANITOR	SC1	WB1	P1	OPEN TO STRUCTURE	
126	MEN	T1	-	P1/P4	ACT1 / GWB	
127	WOMEN	T1	-	P1/P4	ACT1 / GWB	
130	CORRIDOR	SC1	WB1	P1/P3	OPEN TO STRUCTURE / GWB	
131	NURSERY	CPT1	WB1	P1/P4	ACT1	
132	PRESCHOOL	CPT1	WB1	P1/P4	ACT1	
133	ELEM (K-2)	CPT1	WB1	P1/P4	ACT1	
134	ELEM (3-5)	CPT1	WB1	P1/P4	ACT1	
135	JANITOR	SC1	WB1	P1	OPEN TO STRUCTURE	
136	TOILET	T1	-	P1	GWB	
137	TOILET	T1	-	P1	GWB	
138	OPEN AREA	SC1	-	P1	OPEN TO STRUCTURE	
139	OPEN AREA	SC1	-	P1	OPEN TO STRUCTURE	
140	CORRIDOR	SC1	WB1	P1	OPEN TO STRUCTURE	

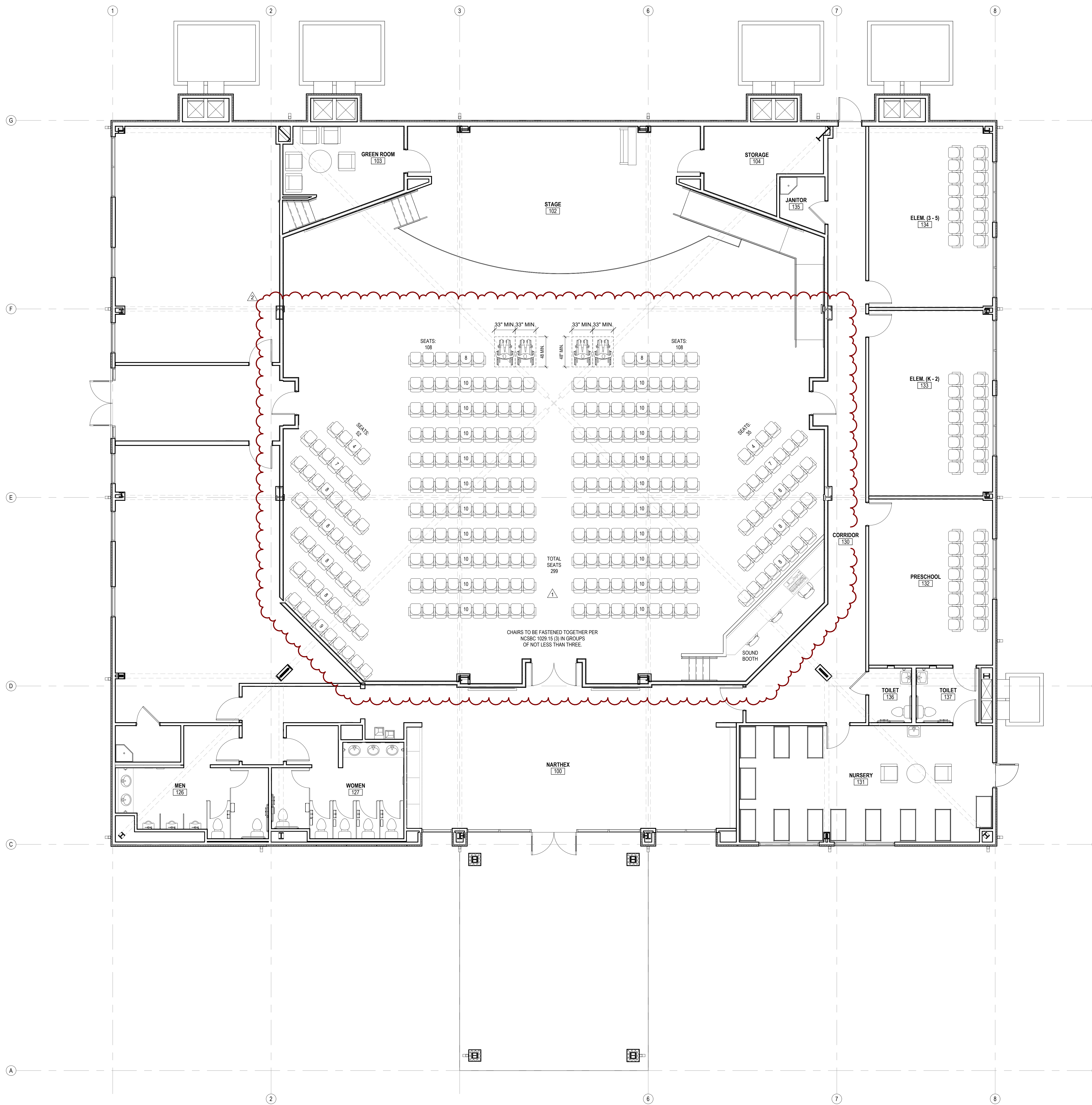
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3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client
3D COMMUNITY CHURCH
Project Number
23024.00
Description
FINISH PLAN

Scale
3/16" = 1'-0"

A02.05

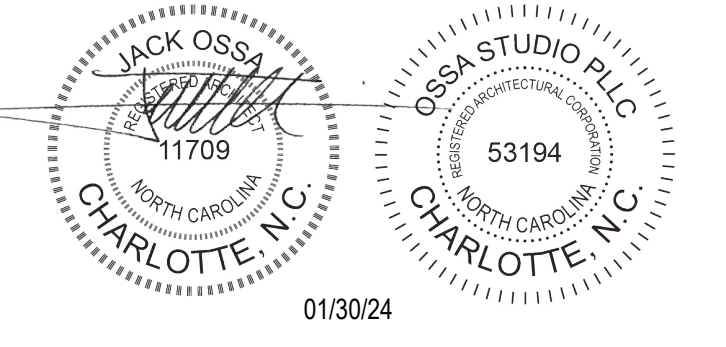


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ENGINEERING
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704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
1 05/8/24	PERMIT REVIEW COMMENTS
2 10/14/24	RTAP NO. 1

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

FURNITURE PLAN

Scale

3/16" = 1'-0"

A02.06

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01/30/24	FOR CONSTRUCTION

Project Name



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SANFORD NC 27311

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3D COMMUNITY CHURCH

Project Number

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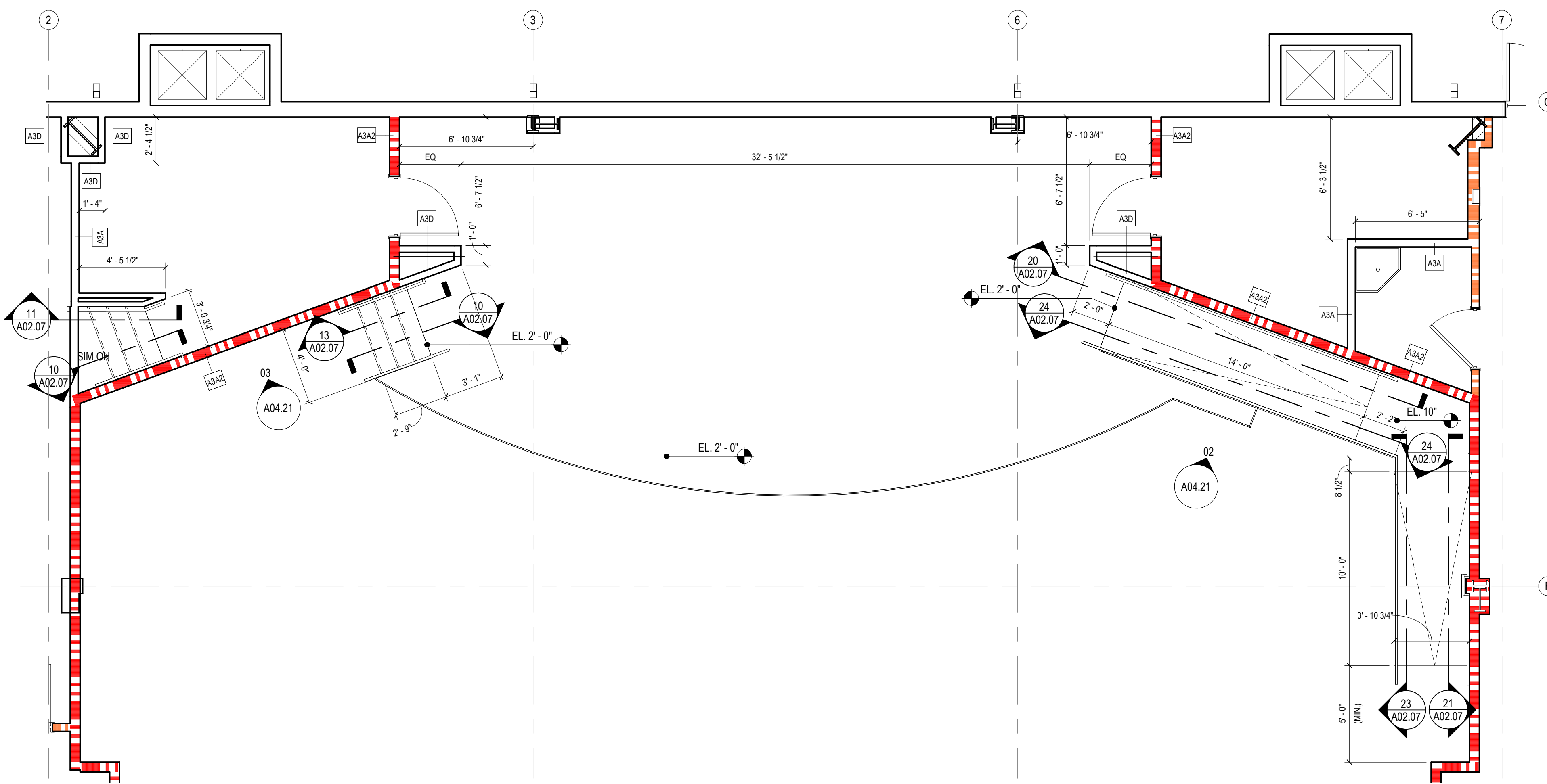
Description

ENLARGED PLANS & SECTIONS

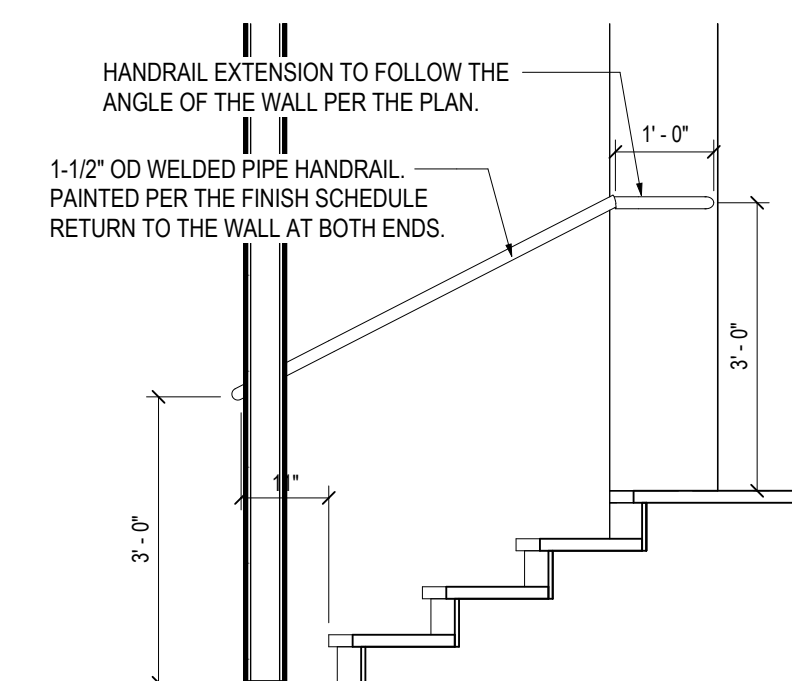
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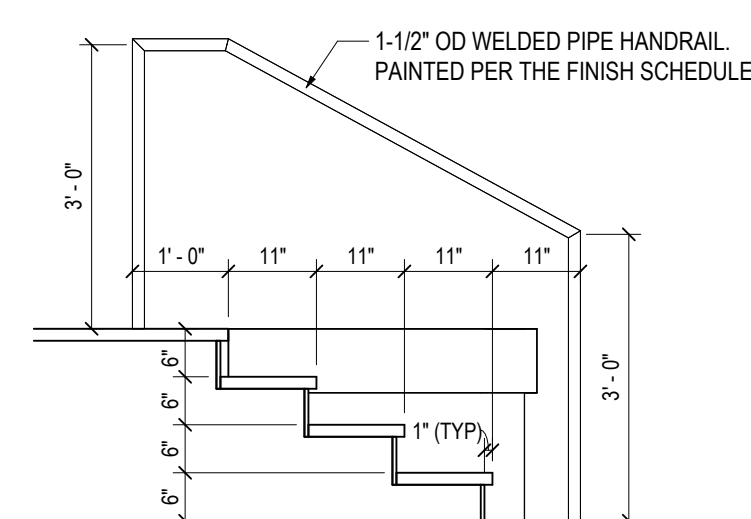
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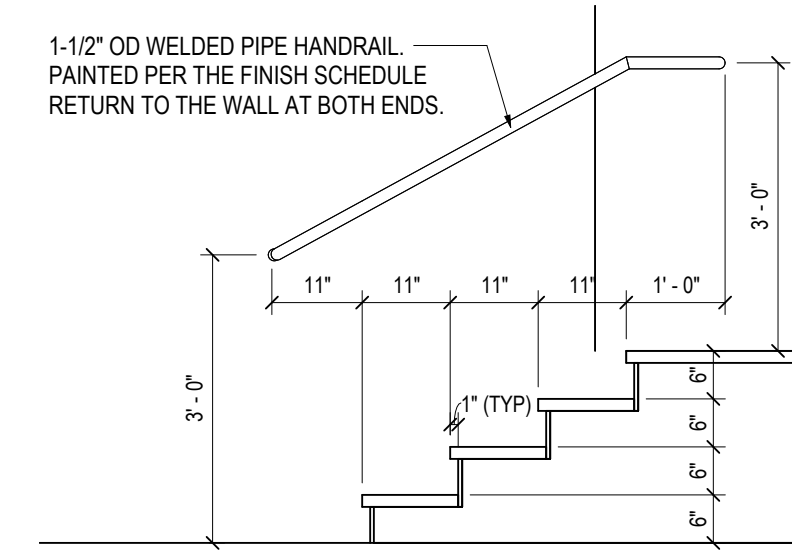
01 PLATFORM PLAN
SCALE: 1/4" = 1'-0"



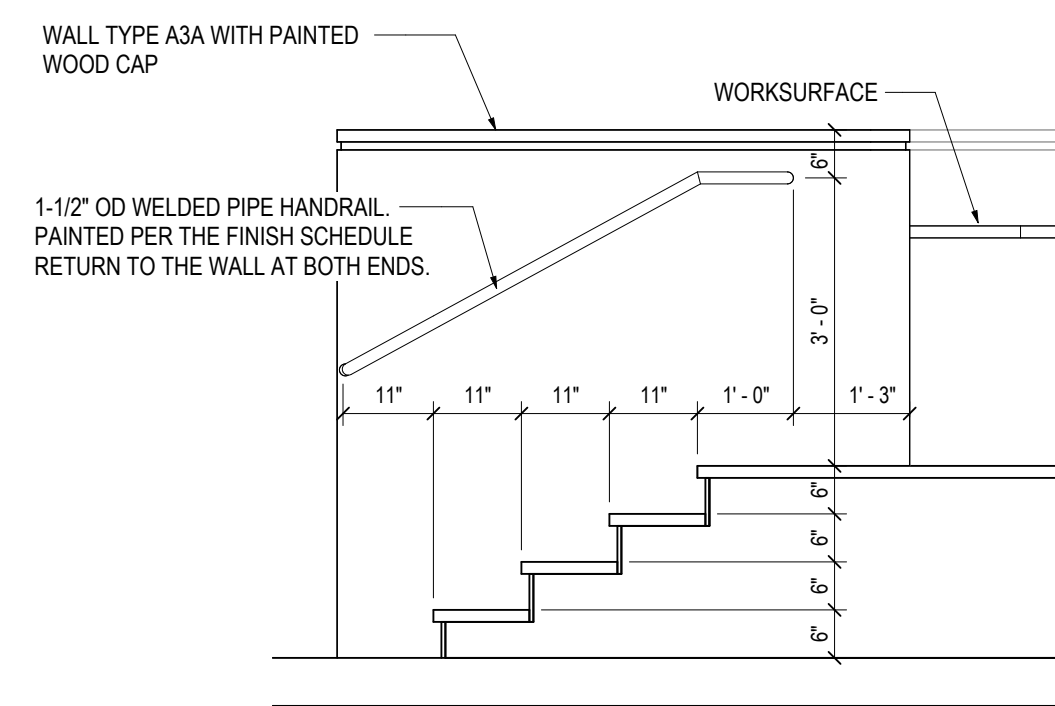
11 STAIR SECTION - GREEN ROOM
SCALE: 1/2" = 1'-0"



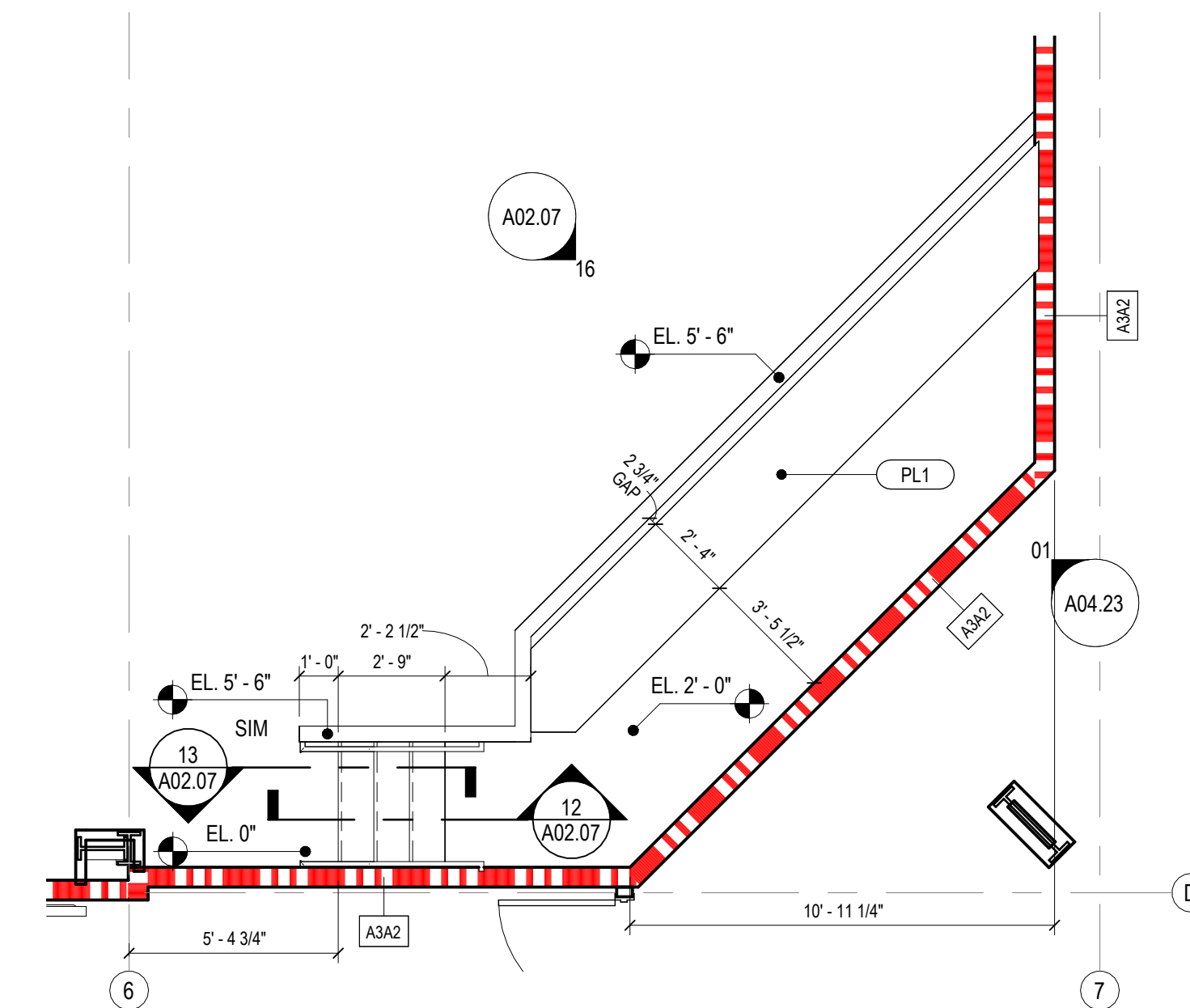
10 STAIR SECTION - OPEN SIDE
SCALE: 1/2" = 1'-0"



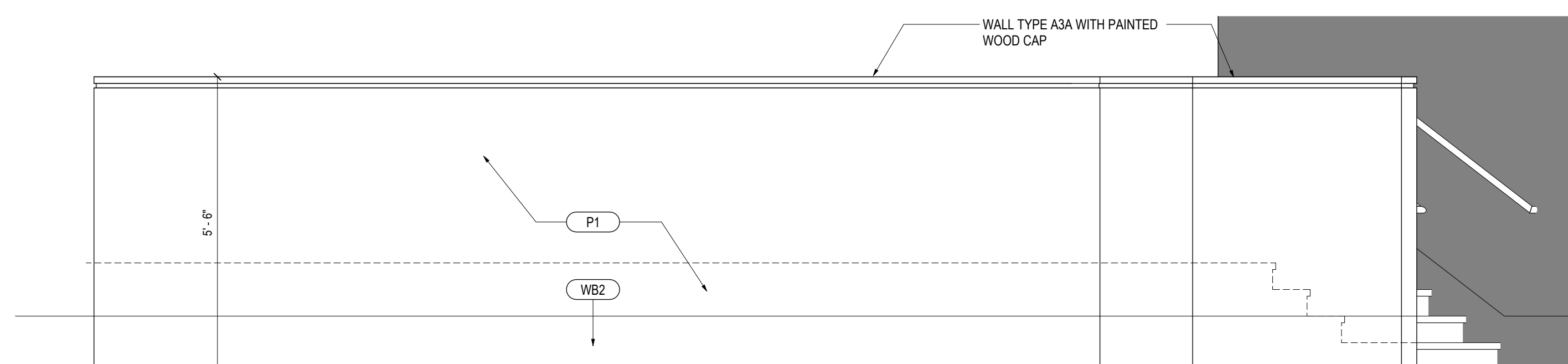
13 STAIR SECTION - WALL SIDE
SCALE: 1/2" = 1'-0"



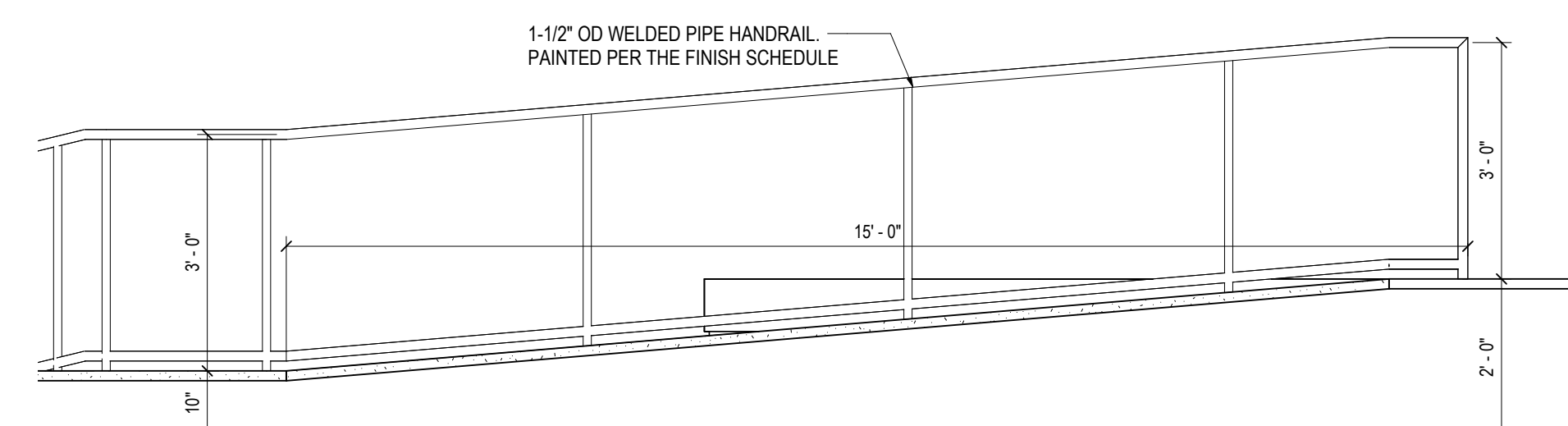
12 STAIR SECTION - A/V PLATFORM
SCALE: 1/2" = 1'-0"



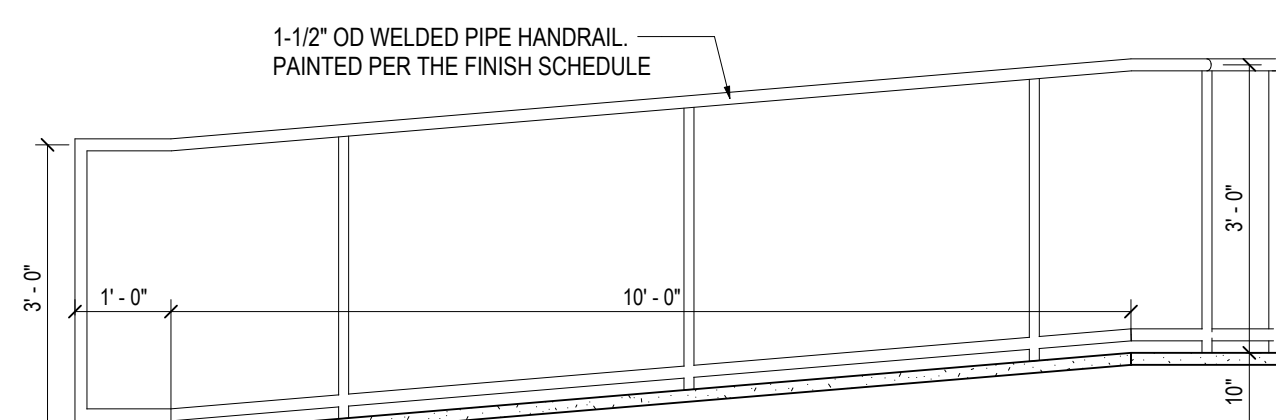
02 A/V PLATFORM
SCALE: 1/4" = 1'-0"



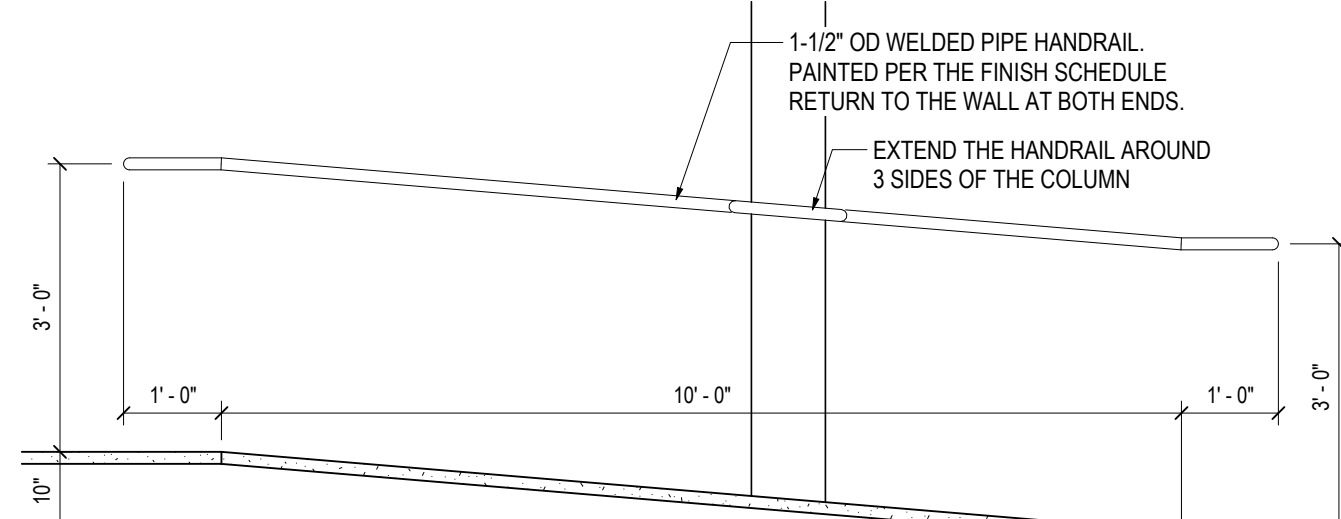
16 A/V PLATFORM
SCALE: 1/2" = 1'-0"



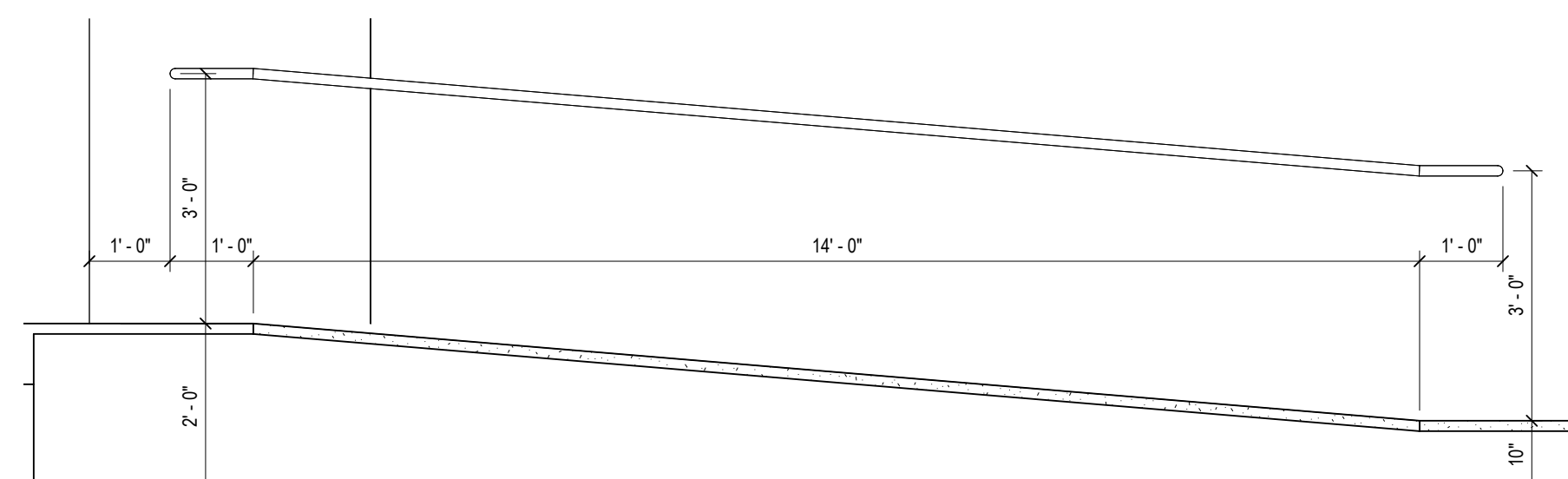
24 RAMP SECTION - OPEN SIDE
SCALE: 1/2" = 1'-0"



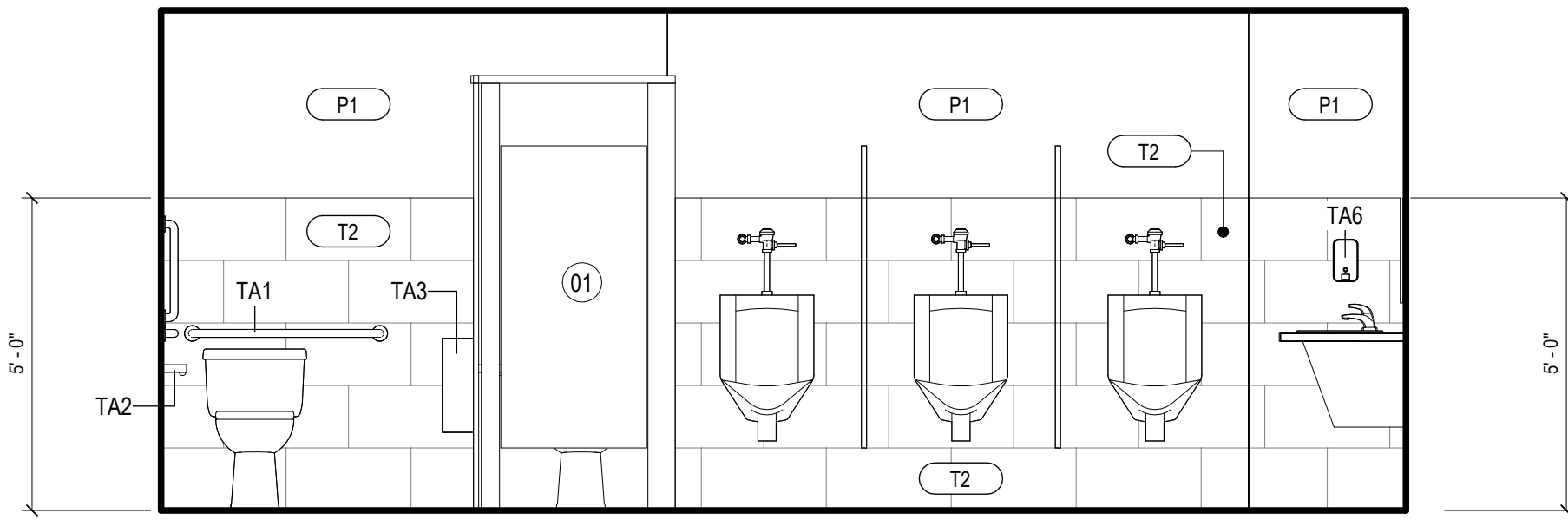
23 RAMP SECTION - OPEN SIDE
SCALE: 1/2" = 1'-0"



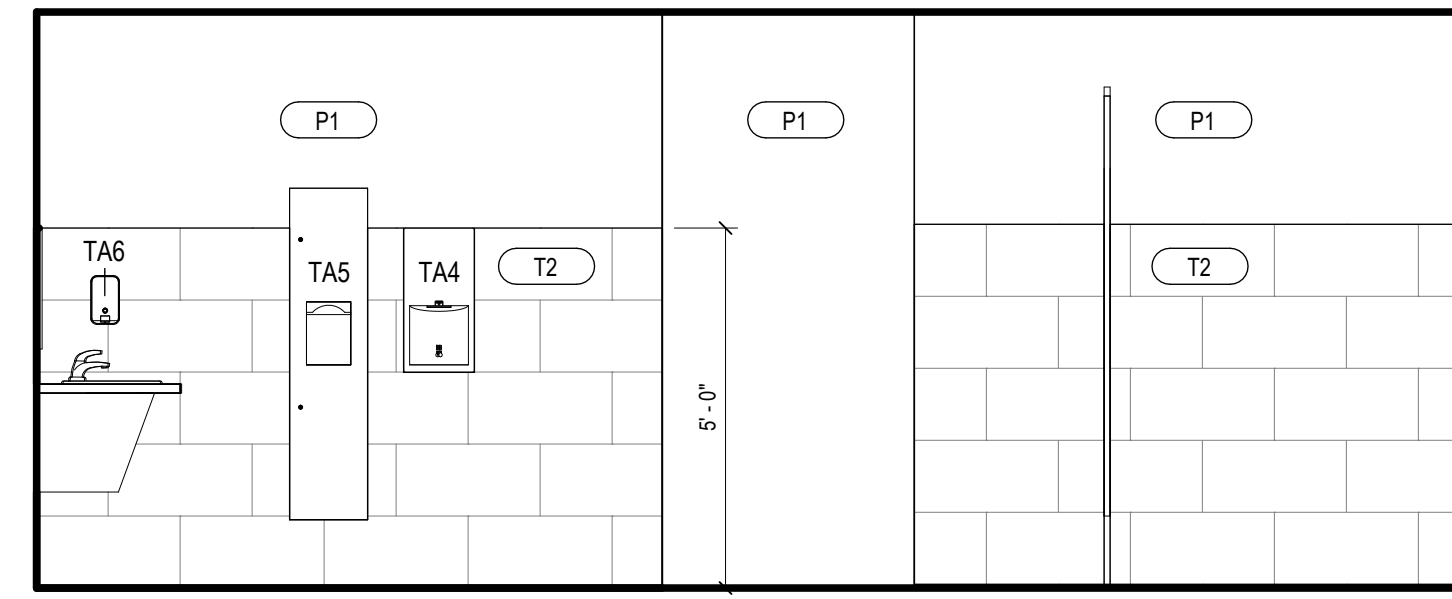
21 RAMP SECTION - WALL SIDE
SCALE: 1/2" = 1'-0"



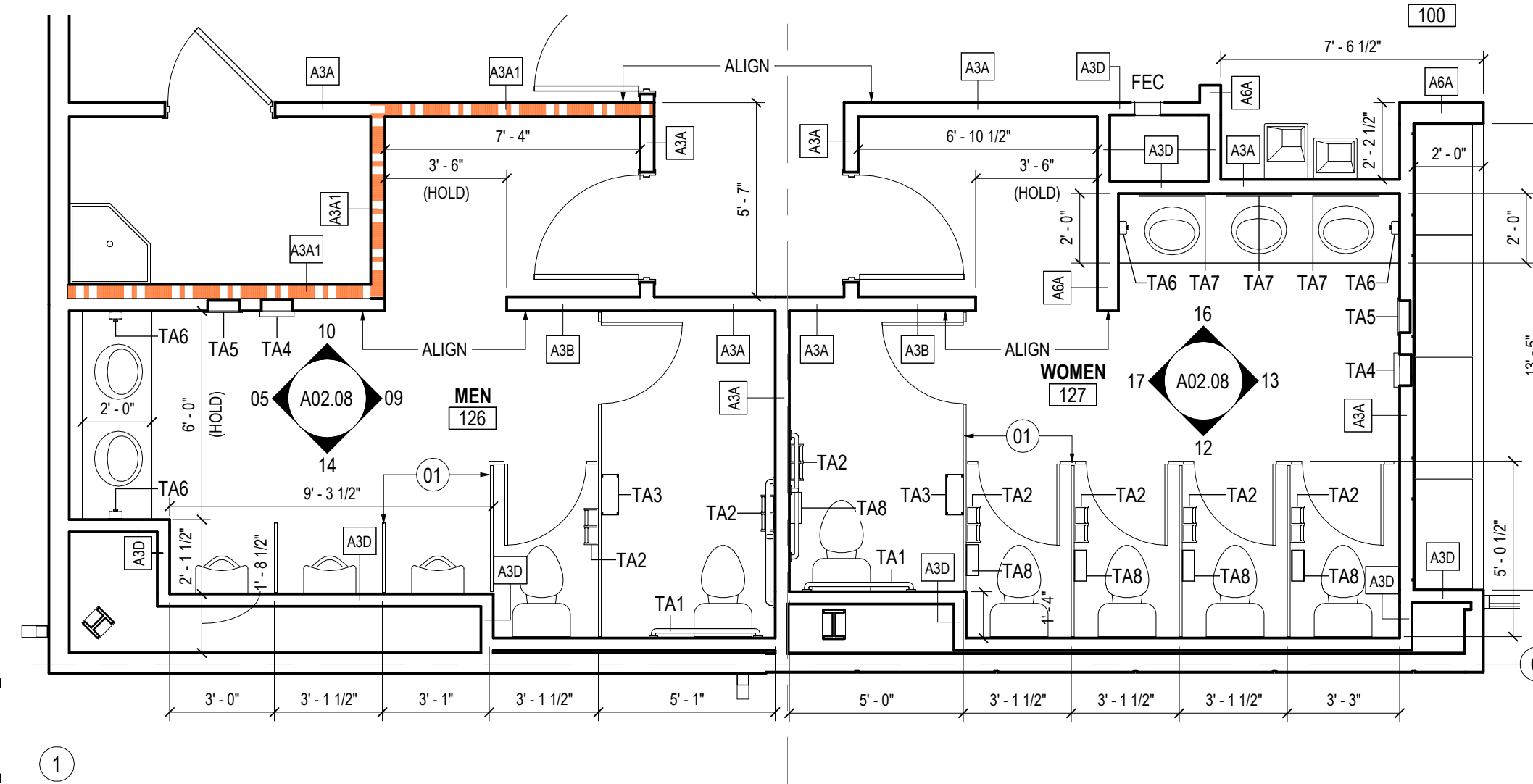
20 RAMP SECTION - WALL SIDE
SCALE: 1/2" = 1'-0"



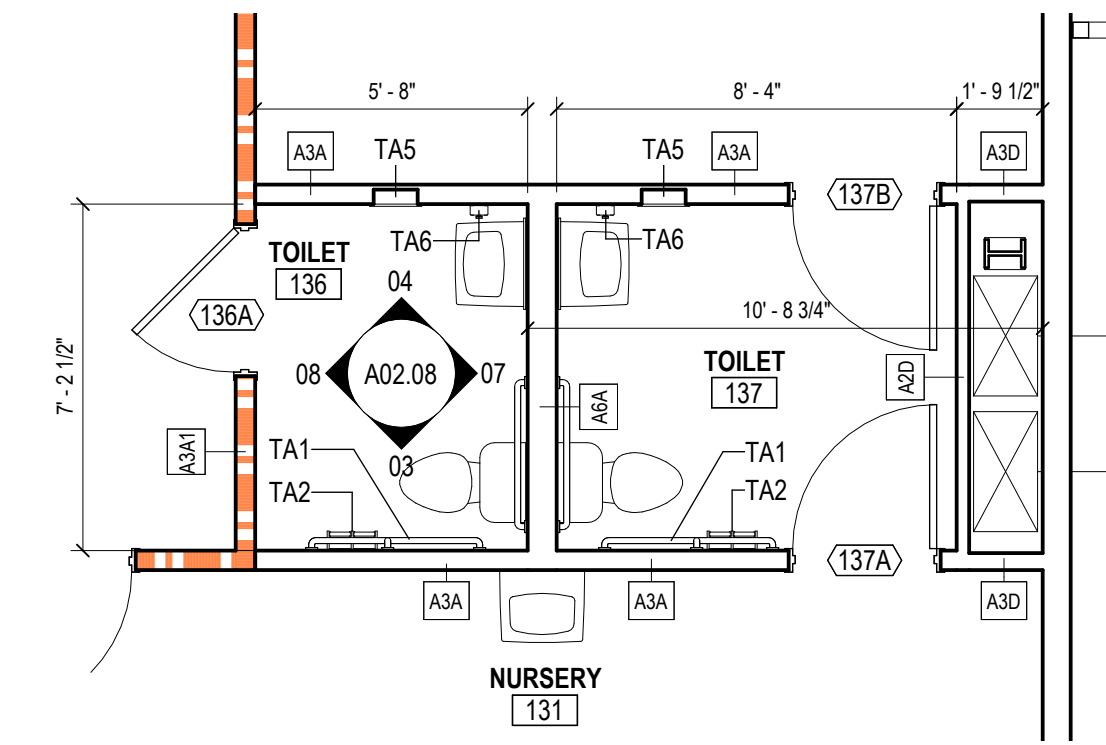
14 INTERIOR ELEVATION K
SCALE: 3/8" = 1'-0"



10 INTERIOR ELEVATION G
SCALE: 3/8" = 1'-0"



01 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



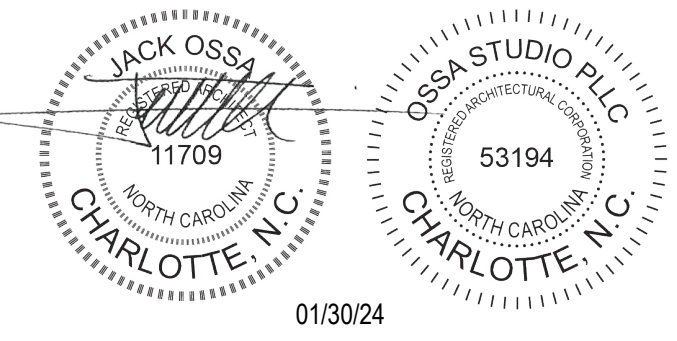
02 ENLARGED TOILETS PLAN
SCALE: 1/4" = 1'-0"

SHEET NOTES

01 STAINLESS STEEL TOILET PARTITIONS



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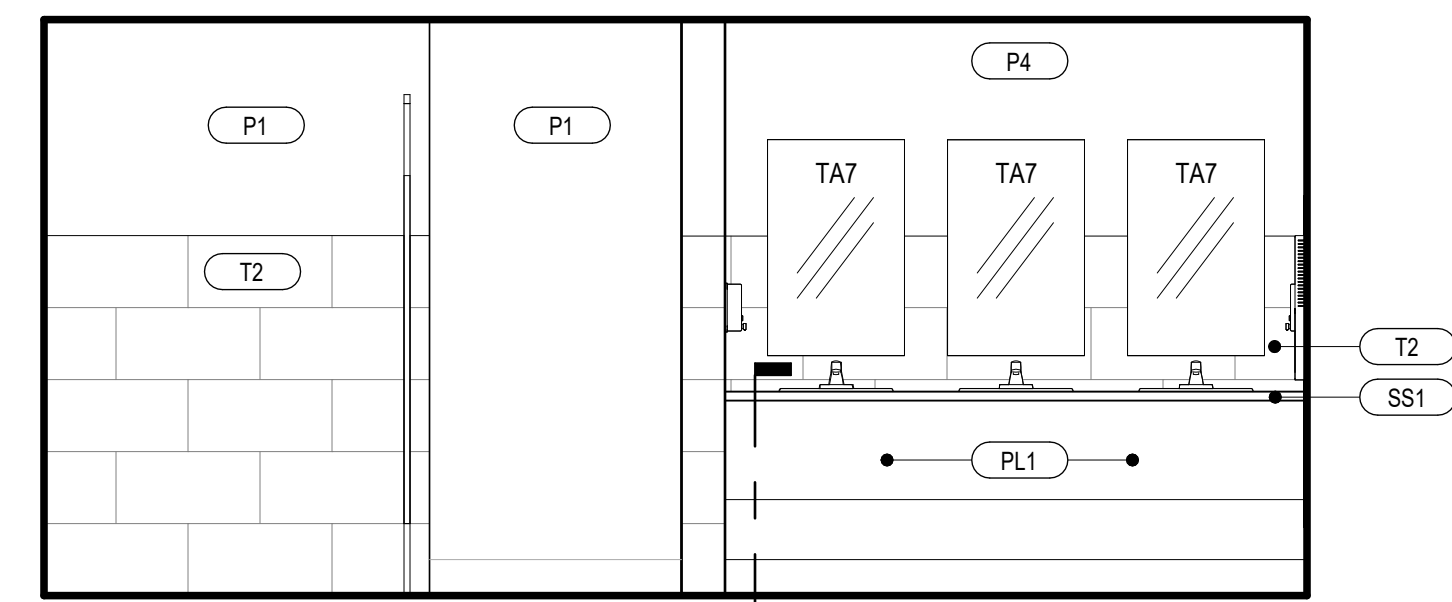
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Date	Description
01/30/24	FOR CONSTRUCTION

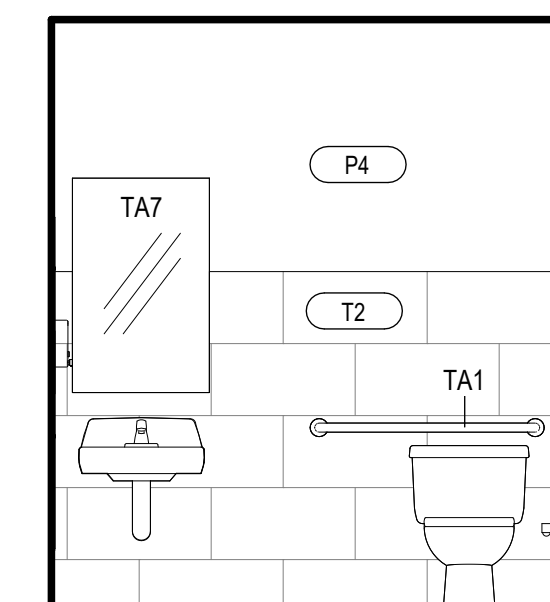
GENERAL NOTES



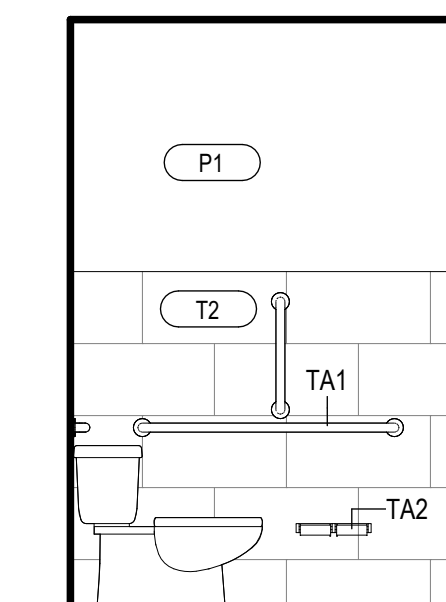
16 INTERIOR ELEVATION M
SCALE: 3/8" = 1'-0"



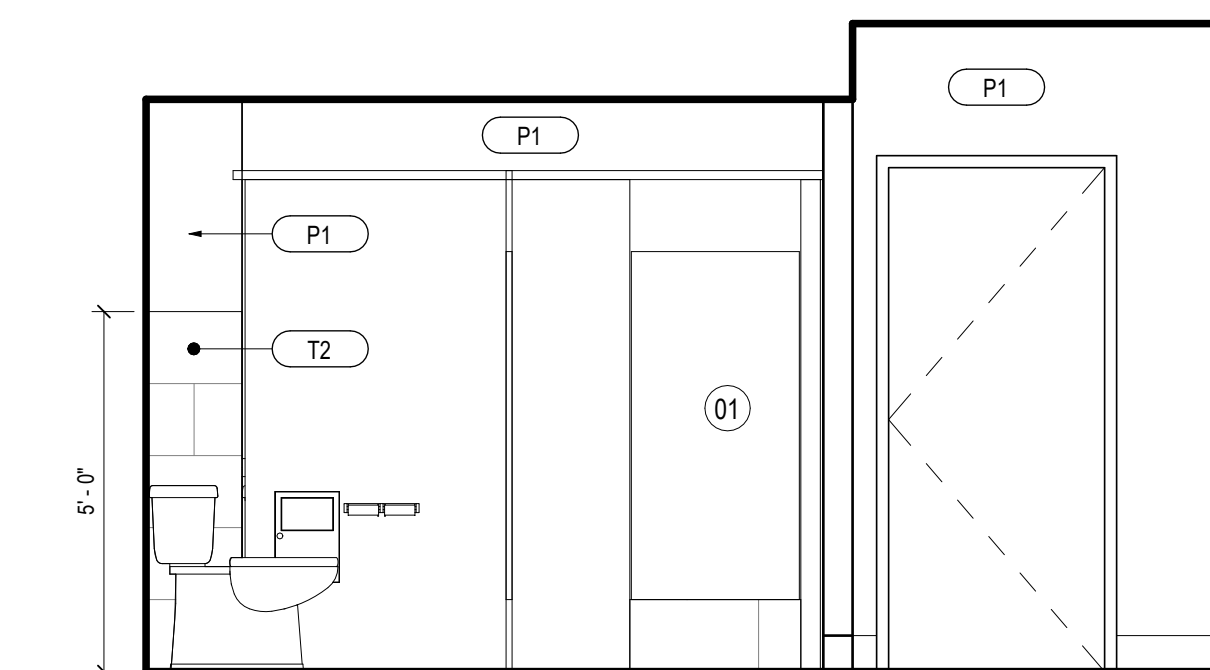
12 INTERIOR ELEVATION I
SCALE: 3/8" = 1'-0"



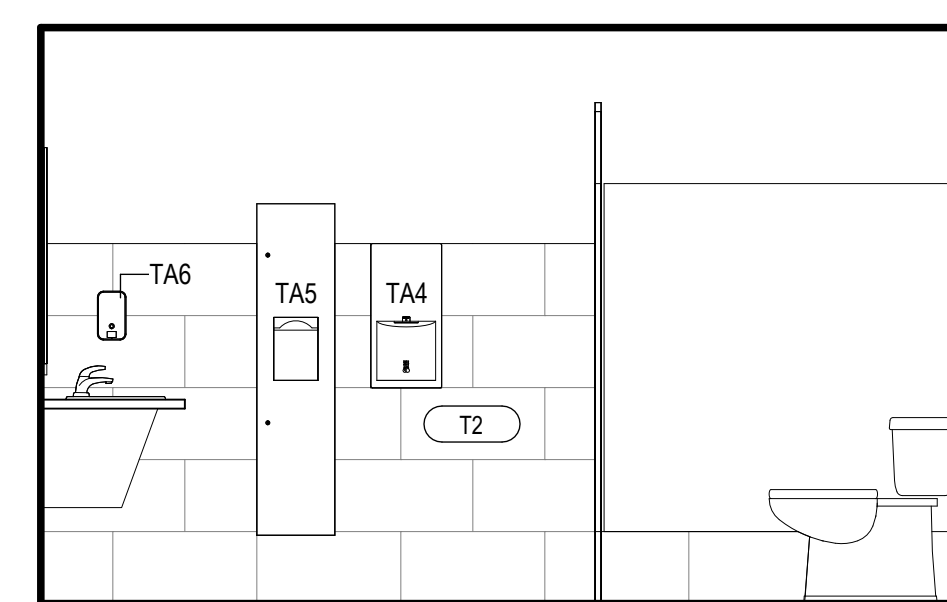
07 INTERIOR ELEVATION D
SCALE: 3/8" = 1'-0"



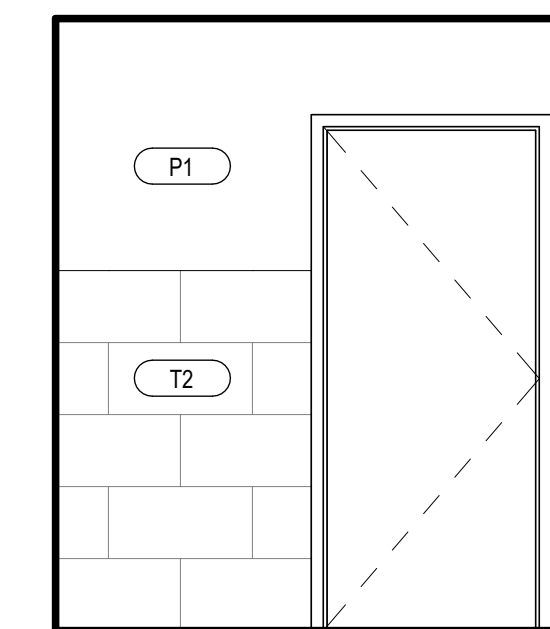
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SCALE: 3/8" = 1'-0"



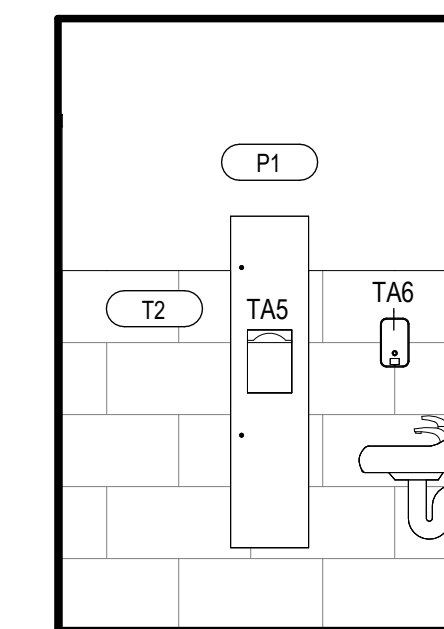
17 INTERIOR ELEVATION N
SCALE: 3/8" = 1'-0"



13 INTERIOR ELEVATION J
SCALE: 3/8" = 1'-0"

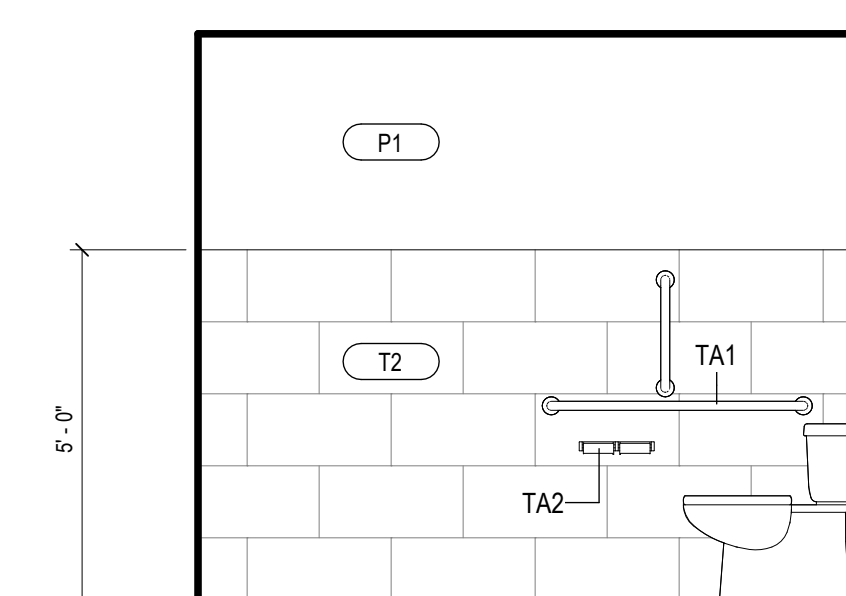


08 INTERIOR ELEVATION E
SCALE: 3/8" = 1'-0"

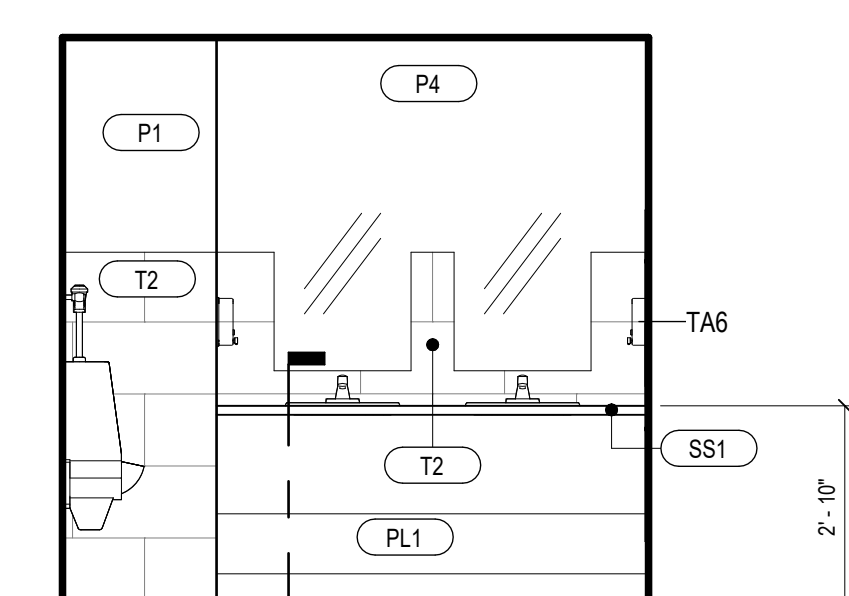


04 INTERIOR ELEVATION B
SCALE: 3/8" = 1'-0"

ID	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
FEC	Wall Mounted Fire Extinguisher Cabinet	Babcock-Davis	BFC3C	
TA1	42" 36" AND 18" ADA GRAB BARS	BOBRICK		
TA2	TOILET TISSUE DISPENSER	BOBRICK	B-2740	
TA3	MOUNTED WASTE RECEPTACLE	BOBRICK	B-279	
TA4	HAND DRYER	BOBRICK	B-3725 115V	
TA5	PAPER TOWEL DISPENSE / WASTE RECEPTACLE	BOBRICK	B-38034	
TA6	SOAP DISPENSER	BOBRICK	B-2111	
TA7	WALL MOUNTED MIRROR	BOBRICK	B-165 2436	
TA8	SANITARY NAPKIN DISPOSAL	BOBRICK	B-3613	



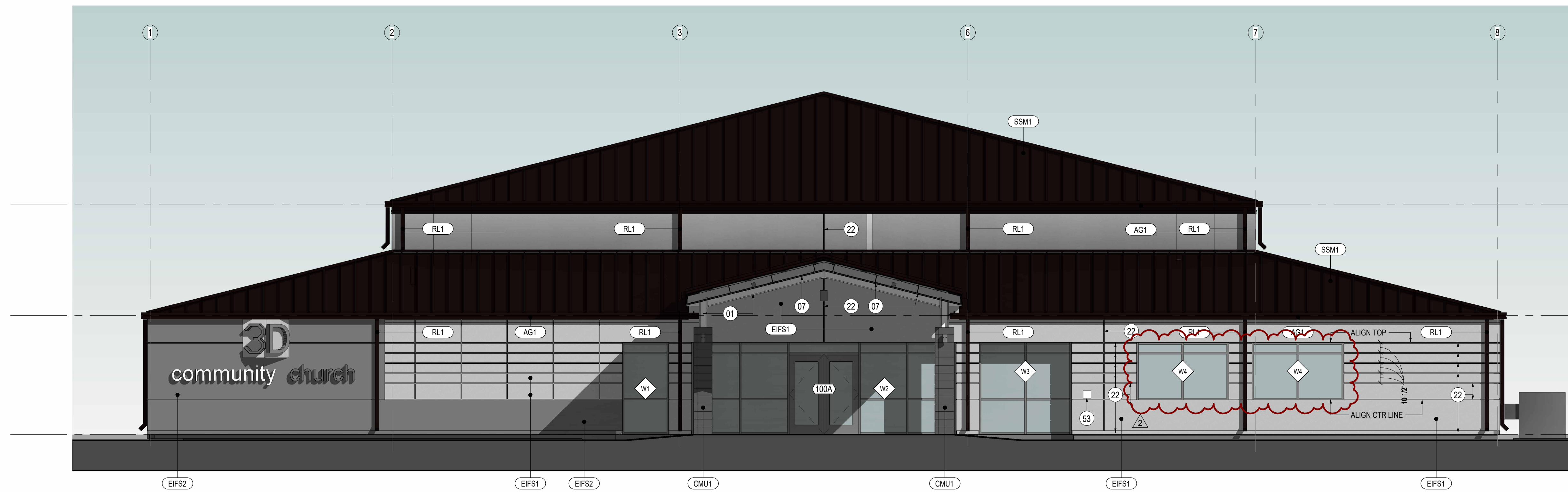
09 INTERIOR ELEVATION F
SCALE: 3/8" = 1'-0"



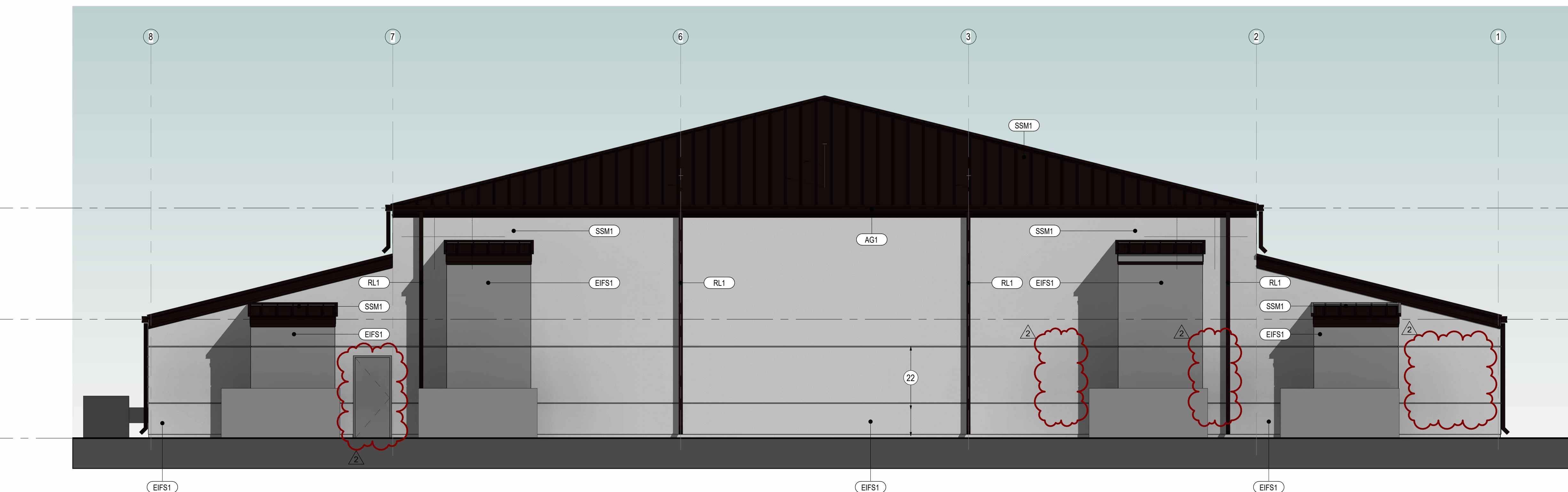
05 INTERIOR ELEVATION C
SCALE: 3/8" = 1'-0"

A02.08

MATERIALS SCHEDULE						
TAG	DESCRIPTION	MANUFACTURER	NAME	COMMENTS	CONTACT	
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	CORTEGA #789	24" x 24" - 15/16" PRELUDE XL GRID		
AG1	PRE-FIN. ALUMINUM GUTTER			OWNER FURNISHED		
AP1	SUSPENDED ACOUSTICAL PANEL SYSTEM	ACOUSTICAL PRODUCTS & SYSTEMS	ECOCORE	AME-08 ANTIQUE WHITE		SCOTT REASON sreason@biboyd.com
AS1	ALUMINUM STOREFRONT	YKK	THERMALLY BROKEN	ANODIZED ALUMINUM FINISH - 6 1/4"x2 1/2" MULLION		
CMU1	CONCRETE MASONRY UNIT	JOHNSON CONCRETE PRODUCTS	BLACK BOULDER JCL-3621	8"x16"x4" GROUND FACE (STACK BOND) w/ HOLCIM SANTEE BLACK S MORTAR		
CP11	CARPET TILE - GRAY	TARKETT	AGGREGATE 11016 ANCHOR BOLT 28301	MONOLITHIC - PROVIDE TARKETT METAL EDGE TRANSITION STRIP AT ALL TRANSITIONS	2'-0" x 2'-0" TILES	
CP12	CARPET TILE - BLUE	TARKETT	CHAIN REACTION 11183 SHUTTLE SAPPHIRE 72207	MONOLITHIC - PROVIDE TARKETT METAL EDGE TRANSITION STRIP AT ALL TRANSITIONS	2'-0" x 2'-0" TILES	
EIFS1	EXTERIOR INSULATION FINISHING SYSTEM	DRYVIT	DPR FINISHES	SANDBLAST - .626A Cloudy Day		
EIFS2	EXTERIOR INSULATION FINISHING SYSTEM	DRYVIT	DPR FINISHES	SANDBLAST - .621 White Gray		
GL1	1" INSULATED GLASS	GUARDIAN - SUNGUARD	SNX 6227	TEMPERED LOW E		TYPICAL AT EXTERIOR WALL
GL2	INTERIOR GLASS		1/4" TEMPERED GLASS			
LVT1	LUXURY VINYL TILE	TARKETT	ID LATITUDE WOOD #692	6"x6"		
P1	PAINT - WHITE	SHERWIN WILLIAMS	SW 6196 FROSTY WHITE	WALLS - EGGSHELL - DOORS, FRAMES, TRIM : SEMIGLOSS		
P2	PAINT - BLACK	SHERWIN WILLIAMS	TBD	WALLS - EGGSHELL - DOORS, FRAMES, TRIM : SEMIGLOSS		
P3	PAINT - DARK GRAY	SHERWIN WILLIAMS	SW 7045 SOFTWARE	WALLS - EGGSHELL - DOORS, FRAMES, TRIM : SEMIGLOSS		
P4	PAINT - BLUE	SHERWIN WILLIAMS	SW 6958 DYNAMIC BLUE	WALLS - EGGSHELL - DOORS, FRAMES, TRIM : SEMIGLOSS		
PL1	PLASTIC LAMINATE	FORMICA	SW 6958 DYNAMIC BLUE	WALLS - EGGSHELL - DOORS, FRAMES, TRIM : SEMIGLOSS		
PW1	PAINTED WOOD CAP			PAINTED TO MATCH WALL		
RL1	PRE-FIN. ALUMINUM DOWNSPOUT			OWNER FURNISHED		
SC1	SEALED CONCRETE - SCARIFY TO AN EVEN FLAT SURFACE					
SS1	SOLID SURFACE	FORMICA	406 LUNA BRITTE WHITE	26" X COUNTERTOP LENGTH		1 1/2" FRONT
SS2	SOLID SURFACE	FORMICA	406 LUNA BRITTE WHITE	10" X COUNTERTOP LENGTH - PROVIDE PLYWOOD BACKING		1 1/2" FRONT
SSM1	STANDING SEAM METAL ROOF			OWNER FURNISHED		
T1	CERAMIC TILE	CROSSVILLE	MAGMA AV295	PROVIDE ANTI-FRACTURE MEMBRANE - STRAIGHT STACK - GROUT: MAPEI 107 IRON-FER-HIERRO		PROVIDE SCHLUTER STRIP AT ALL EDGES
T2	CERAMIC TILE	CROSSVILLE	FLANNEL SUIT AV317	PROVIDE ANTI-FRACTURE MEMBRANE - STRAIGHT STACK - GROUT: MAPEI 107 IRON-FER-HIERRO		PROVIDE SCHLUTER STRIP AT ALL EDGES
WB1	WALL - GRAY	TARKETT	PERCEPTIONS	RWDC CONTOUR TAS COLONIAL GRAY		4 25"
WB2	APPLIED 1/2" MDF			PAINTED TO MATCH WALL		12" TALL
WB3	WALL BASE - BLUE	TARKETT	PERCEPTIONS	RWDC 18 CONTOUR 18 NAVY BLUE		4 25"



01 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



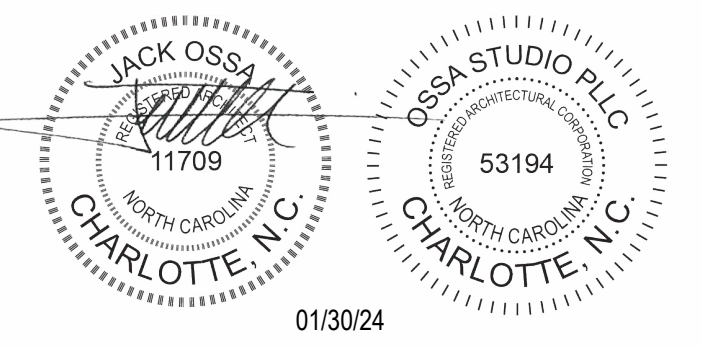
02 REAR ELEVATION
SCALE: 3/16" = 1'-0"

SHEET NOTES

- 01 STRUCT. STL. - PAINT BLACK WHERE EXPOSED
- 02 GWB AND MDF STAGE APRON - PAINT BLACK
- 03 ELEVATED FLOOR w/ LVT FINISH ON 1/4" T. TEMPERED MASONITE, 1/2" HOMASOTE, AND 3/4" FRT PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 04 SLOPED GWB "CLOUD" AT UNDERSIDE OF STL. STRUCT.
- 07 MTL PANEL CEILING SYSTEM MTL. BLDG. MANUF. LIGHTING TRUSS (SEE STRUCT.)
- 08 RAMP w/ LVT FINISH ON (2) LAYERS 3/4" FRT PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 10 STAIR w/ LVT FINISH ON (2) LAYERS 3/4" FRT PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 11 GWB CONTROL JOINT
- 12 EXPOSED ROOF INSULATION
- 13 MTL Z PURLIN (TYP.)
- 14 SUSPENDED PROJECTION SCREEN
- 15 LED CYLINDER PENDANT LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 16 LED WALL SCONCE LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 17 RECTANGULAR BEAM LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 18 RECESSED LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 20 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS) ON MTL. STUD FURRING AT STL. COLUMN
- 21 E.F.S. - 1-1/2" R-5 RIGID INSUL AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 22 REVEAL (TYP.)
- 23 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS) W/ 1-1/2" AIR SPACE, 2" RIGID INSUL., AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 24 STANDING SEAM MTL. ROOF (OWNER FURNISHED)
- 25 CONT. R-11 VINYL-FACED BLANKET INSUL ON R-3 THERMAL SPACER BLOCKS (THERMAL SPACER BLOCKS TYP. AT EA. PURLIN)
- 26 R-19 FIBERGLASS BLANKET INSUL. BET. PURLINS (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 27 CONT. BLACK FIBER-REINFORCED VAPOR BARRIER MEMBRANE AT BOTTOM OF PURLINS
- 28 GUTTER AND FLASHING BY MTL. BLDG. MANUF.
- 29 DOWNSPOUTS BY MTL. BLDG. MANUF. (TYP.)
- 31 3/8" T. x 2 1/4" D. CLEAR TEMPERED GLASS SHELVES (TYP.)
- 32 ADJUSTABLE SHELF BRACKETS & FLUSH-MOUNTED SHELF TRACKS (TYP.)
- 33 RAKES INSIDE WALL MOUNT EH COUNTER SUPPORT BRACKETS
- 34 OPEN TO UPPER ROOF ABOVE
- 35 MTL. C. PURLIN BY MTL. BLDG. MANUF.
- 36 PRE-FIN. COUNTER FLASHING
- 37 TIE-IN TRIM BY MTL. BLDG. MANUF.
- 38 BACK-UP PLATE BY MTL. BLDG. MANUF.
- 39 OUTSIDE MTL. CLOSURE BY MTL. BLDG. MANUF.
- 41 STL. SPANDELL ANGLE AT BOTTOM OF MTL. Z PURLINS BY MTL. BLDG. MANUFACTURER
- 42 COMPRESSIBLE FILLER
- 43 NEW CONC. SIDEWALK
- 44 ALUM. DOOR AS SCHEDULED
- 45 DOOR THRESHOLD AS SCHEDULED - SET ON FULL BED OF MASTIC
- 46 TURNED-DOWN CONC. SLAB (SEE STRUCT.)
- 47 STRUCT. STL. COLUMN
- 48 STRUCT. STL. MOMENT FRAME - PAINT BLACK WHERE EXPOSED
- 49 SOUND ATTENUATION BLANKET (TYP.)
- 51 LINEAR SLOT RETURN (SEE MECH.)
- 52 MTL. SUPPORT BANDING - SPACE AS DIMENSIONED ON ENLARGED RCP (TYP.)
- 53 UNHINGED / RECESSED KNOXBOX (ALUM. FIN.)
- 54 FLUID-APPLIED AIR BARRIER MEMBRANE
- 55 JOINT SEALANT AND BACKER ROD
- 56 ALUM. STOREFRONT SYSTEM
- 57 E.F.S. - 1-1/2" R-5 RIGID INSUL AND 5/8" SHEATHING ON 6" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 59 E.F.S. DRAINABLE TRACK
- 60 THRU-WALL STAINLESS STL. FLASHING W/ DRIP EDGE - FLASHED INTO AIR AND WATER BARRIER MEMBRANE
- 61 R-19 FIBERGLASS BLANKET INSUL. BET. MTL. STUD FRAMING (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 62 STANDING SEAM MTL. ROOF (OWNER FURNISHED) ON 3/4" FRT PLYWOOD ON 6" MTL. STUD FRAMING
- 68 ROLLERSHADE AT EA. EXT. WINDOW (TYP.)
- 69 EAVE TRIM, PANEL CAP TRIM, AND FLASHING BY MTL. BLDG. MANUF.
- 70 MTL. STUD BRACE (SEE STRUCT.)



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Date	Description
01/30/24	FOR CONSTRUCTION
2 10/14/24	RTAP NO. 1

Project Name

3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

EXTERIOR ELEVATIONS

Scale

3/16" = 1'-0"

A03.01

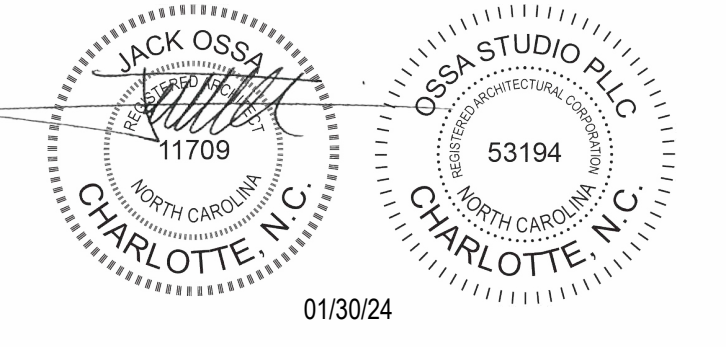
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- 18 RECESSED LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 20 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS.) ON MTL. STUD FURRING AT STL. COLUMN
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- 24 STANDING SEAM MTL. ROOF (OWNER FURNISHED)
- 25 CONT. R-11 VINYL-FACED BLANKET INSUL ON R-3 THERMAL SPACER BLOCKS (THERMAL SPACER BLOCKS TYP. AT EA. PURLIN)
- 26 R-19 FIBERGLASS BLANKET INSUL. BET. PURLINS (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 27 CONT. BLACK FIBER-REINFORCED VAPOR BARRIER MEMBRANE AT BOTTOM OF PURLINS
- 28 GUTTER AND FLASHING BY MTL. BLDG. MANUF.
- 29 DOWNSPOUTS BY MTL. BLDG. MANUF. (TYP.)
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- 44 ALUM. DOOR AS SCHEDULED
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- 69 EAVE TRIM, PANEL CAP TRIM, AND FLASHING BY MTL. BLDG. MANUF.
- 70 MTL. STUD BRACE (SEE STRUCT.)

MATERIALS SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	NAME	COMMENTS	CONTACT
ACT1	ACOUSTICAL CEILING TILE	ARMSTRONG	CORTEGA #769	24" x 24", - 15/16" PRELUDE XL GRID	
AG1	PRE-FIN. ALUMINUM GUTTER	-	-	OWNER FURNISHED	
AP1	SUSPENDED ACOUSTICAL PANEL SYSTEM	ACOUSTICAL PRODUCTS & SYSTEMS	ECOCORE	AME-08 ANTIQUE WHITE	SCOTT REASON sreason@bbwyd.com
AS1	ALUMINUM STOREFRONT	YKK	THERMALLY BROKEN	ANODIZED ALUMINUM FINISH - 6 1/4"x2 1/2" MULLION	
CMU1	CONCRETE MASONRY UNIT	JOHNSON CONCRETE PRODUCTS	BLACK BOULDER JCL-3621	8"x16"x4" GROUND FACE (STACK BOND) w/ HOLCIM SANTEE BLACK S MORTAR	
CPT1	CARPET TILE - GRAY	TARKETT	AGGREGATE 11016 ANCHOR BOLT 28301	MONOLITHIC - PROVIDE TARKETT METAL EDGE TRANSITION STRIP AT ALL TRANSITIONS	2'-0" x 2'-0" TILES
CPT2	CARPET TILE - BLUE	TARKETT	CHAIN REACTION 11683 SHUTTLE SAPPHIRE Y2207	MONOLITHIC - PROVIDE TARKETT METAL EDGE TRANSITION STRIP AT ALL TRANSITIONS	2'-0" x 2'-0" TILES
EFS1	EXTERIOR INSULATION FINISHING SYSTEM	DRYVIT	DPR FINISHES	SANDBLAST - 626A Cloudy Day	
EFS2	EXTERIOR INSULATION FINISHING SYSTEM	DRYVIT	DPR FINISHES	SANDBLAST - 621 White Gray	
GL1	1" INSULATED GLASS	GUARDIAN - SUNGUARD	SNX 6227	TEMPERED LOW E	TYPICAL AT EXTERIOR WALL
GL2	INTERIOR GLASS	-	1/4" TEMPERED GLASS	-	
LVT1	LUXURY VINYL TILE	TARKETT	10 LATITUDE WOOD 4692	6"x6"	
P1	PAINT - WHITE	SHERWIN WILLIAMS	SW 6186 FROSTY WHITE	WALLS : EGG-SHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
P2	PAINT - BLACK	SHERWIN WILLIAMS	TBD	WALLS : EGG-SHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
P3	PAINT - DARK GRAY	SHERWIN WILLIAMS	SW 7045 SOFTWARE	WALLS : EGG-SHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
P4	PAINT - BLUE	SHERWIN WILLIAMS	SW 6958 DYNAMIC BLUE	WALLS : EGG-SHELL - DOORS, FRAMES, TRIM : SEMI-GLOSS	
PL1	PLASTIC LAMINATE	FORMICA	5735 NG	FORMICA	
PP1	PAINTED WOOD CAP	-	-	PAINTED TO MATCH WALL	
RL1	PRE-FIN. ALUMINUM DOWNSPOUT	-	-	1X WOOD OWNER FURNISHED	
SC1	SEALED CONCRETE - SCARIFY TO AN EVEN FLAT SURFACE	-	-	-	
SS1	SOLID SURFACE	FORMICA	406 LUNA BRITTE WHITE	25" X COUNTERTOP LENGTH	1 1/2" FRONT
SS2	SOLID SURFACE	FORMICA	406 LUNA BRITTE WHITE	10" X COUNTERTOP LENGTH - PROVIDE PLYWOOD BACKING	1 1/2" FRONT
SSM1	STANDING SEAM METAL ROOF	-	-	OWNER FURNISHED	
T1	CERAMIC TILE	CROSSVILLE	MAGMA AV295	PROVIDE ANTI-FRACTURE MEMBRANE - STRAIGHT STACK - GROUT: MAPEI 107 IRON-FER-HIERRO	PROVIDE SCHLUTER STRIP AT ALL EDGES
T2	CERAMIC TILE	CROSSVILLE	FLANNEL SUIT AV317	PROVIDE ANTI-FRACTURE MEMBRANE - STRAIGHT STACK - GROUT: MAPEI 107 IRON-FER-HIERRO	PROVIDE SCHLUTER STRIP AT ALL EDGES
WB1	WALL - GRAY	TARKETT	PERCEPTIONS	RWDC CONTOUR TAS COLONIAL GRAY	4.25"
WB2	APPLIED 1/2" MDF	-	-	PAINTED TO MATCH WALL	1/2" TALL
WB3	WALL BASE - BLUE	TARKETT	PERCEPTIONS	RWDC 18 CONTOUR 18 NAVY BLUE	4.25"



4539 HEDGEMORE DRIVE, SUITE 101
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PROJECT TEAM

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- Structural Engineering**
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- Mechanical, Electrical, Plumbing & Fire Protection**
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Date	Description
01/30/24	FOR CONSTRUCTION
2 10/14/24	RTAP NO. 1

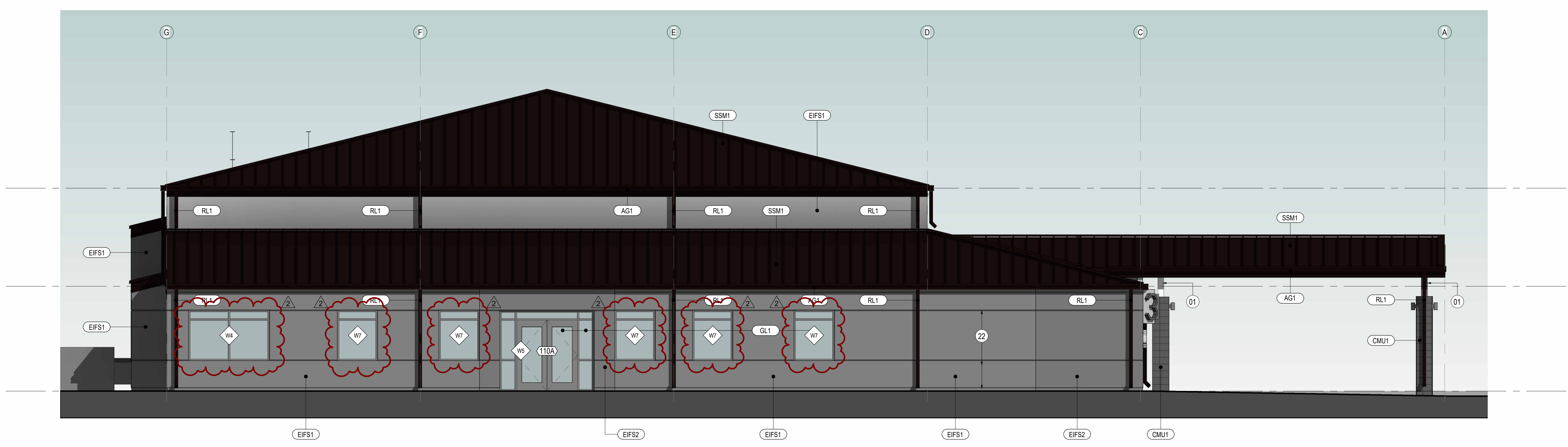
Project Name
3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client
3D COMMUNITY CHURCH
Project Number
23024.00
Description
EXTERIOR ELEVATIONS

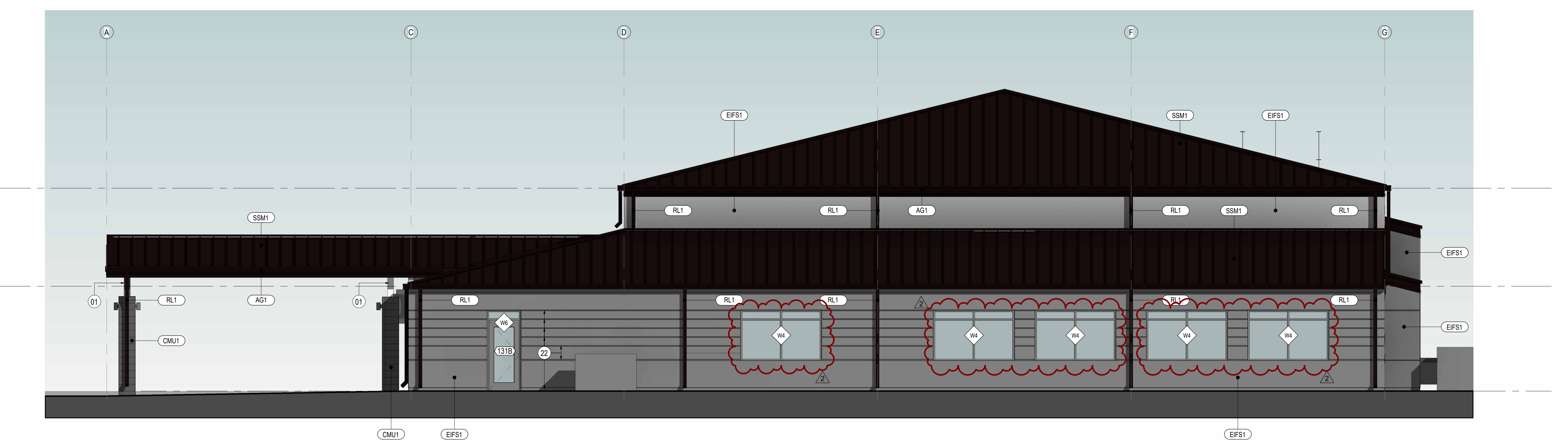
Scale
3/16" = 1'-0"

A03.02

01 LEFT ELEVATION
SCALE: 3/16" = 1'-0"

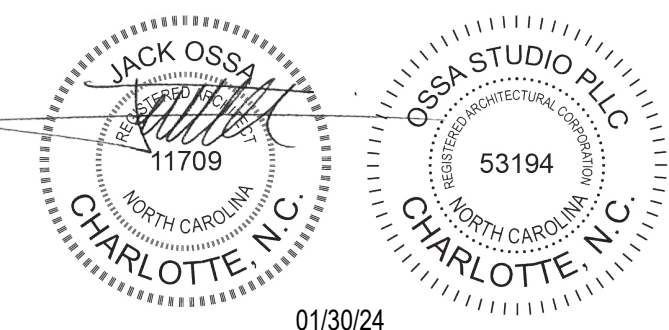


02 RIGHT ELEVATION
SCALE: 3/16" = 1'-0"





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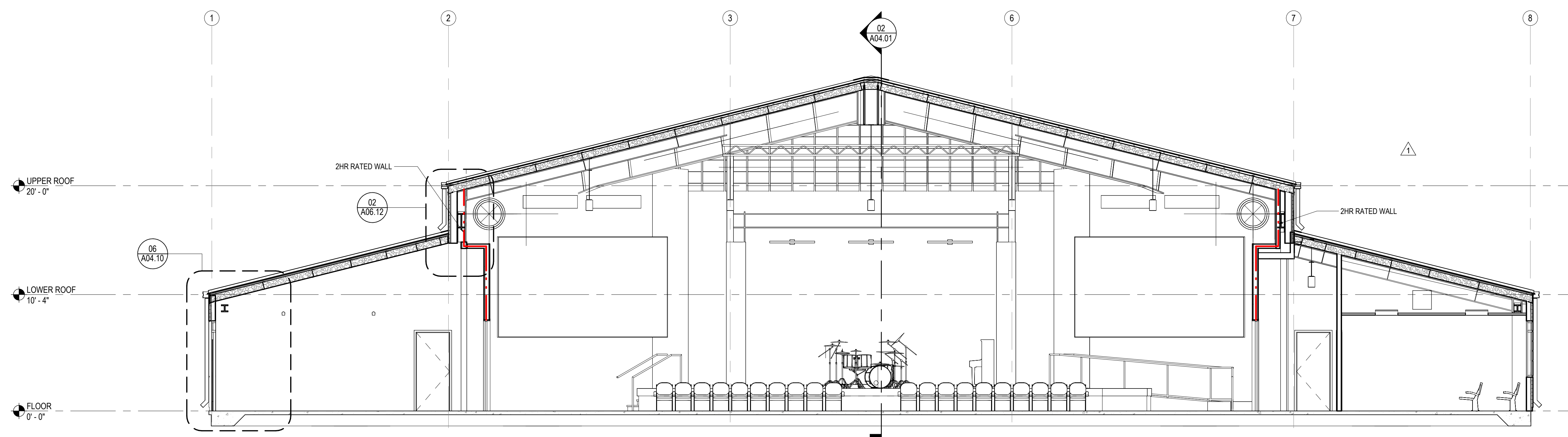
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 www.hilliardepp.com
 919.352.2834

Structural Engineering
 PROVIDENCE PARTNERS
 www.providencpartnersinc.com
 704.266.6621

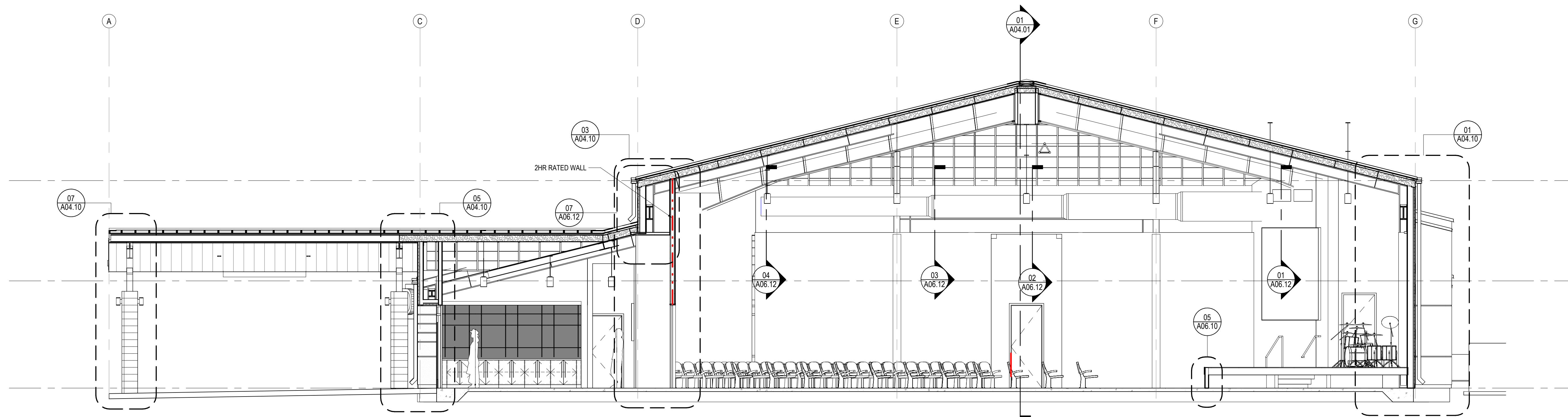
Mechanical, Electrical, Plumbing & Fire Protection
 ENGINEERING
 www.engineering.com
 704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
1 05/8/24	PERMIT REVIEW COMMENTS

GENERAL NOTES



01 Section 1
 SCALE: 3/16" = 1'-0"



02 Section 2
 SCALE: 3/16" = 1'-0"

Project Name

3D
community church
 making church come alive
 658 GRAHAM ROAD
 SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

SECTIONS

Scale

3/16" = 1'-0"

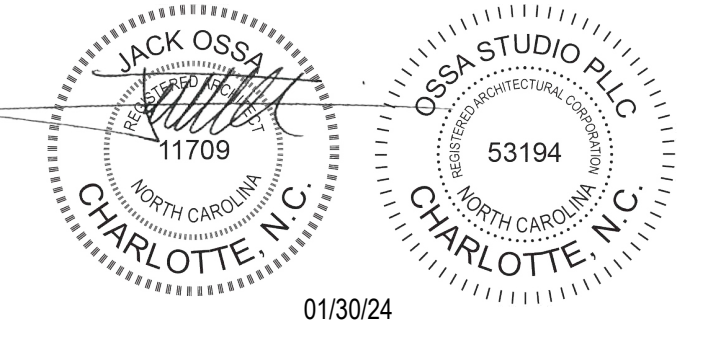
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Date	Description
01/30/24	FOR CONSTRUCTION
1 05/28/24	PERMIT REVIEW COMMENTS

Project Name

3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

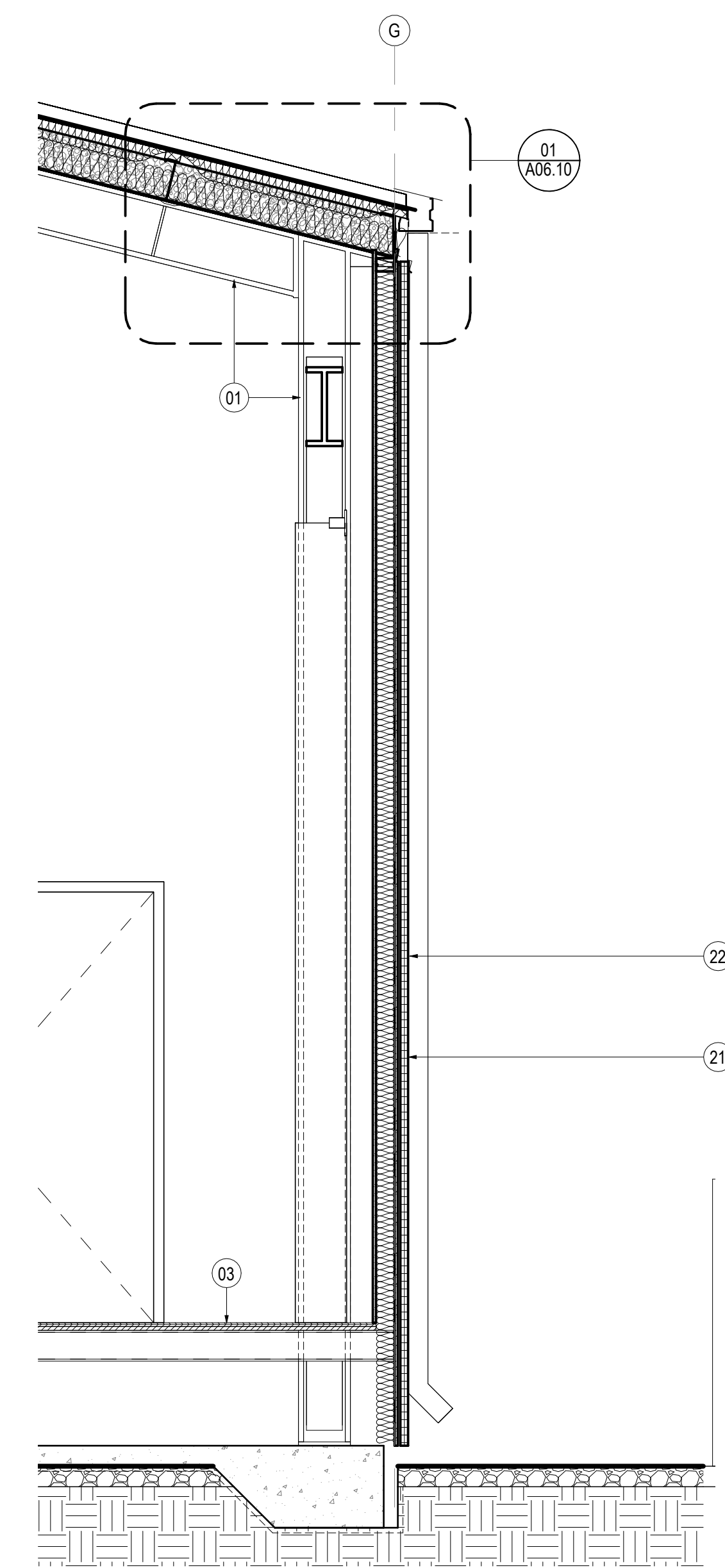
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WALL SECTIONS

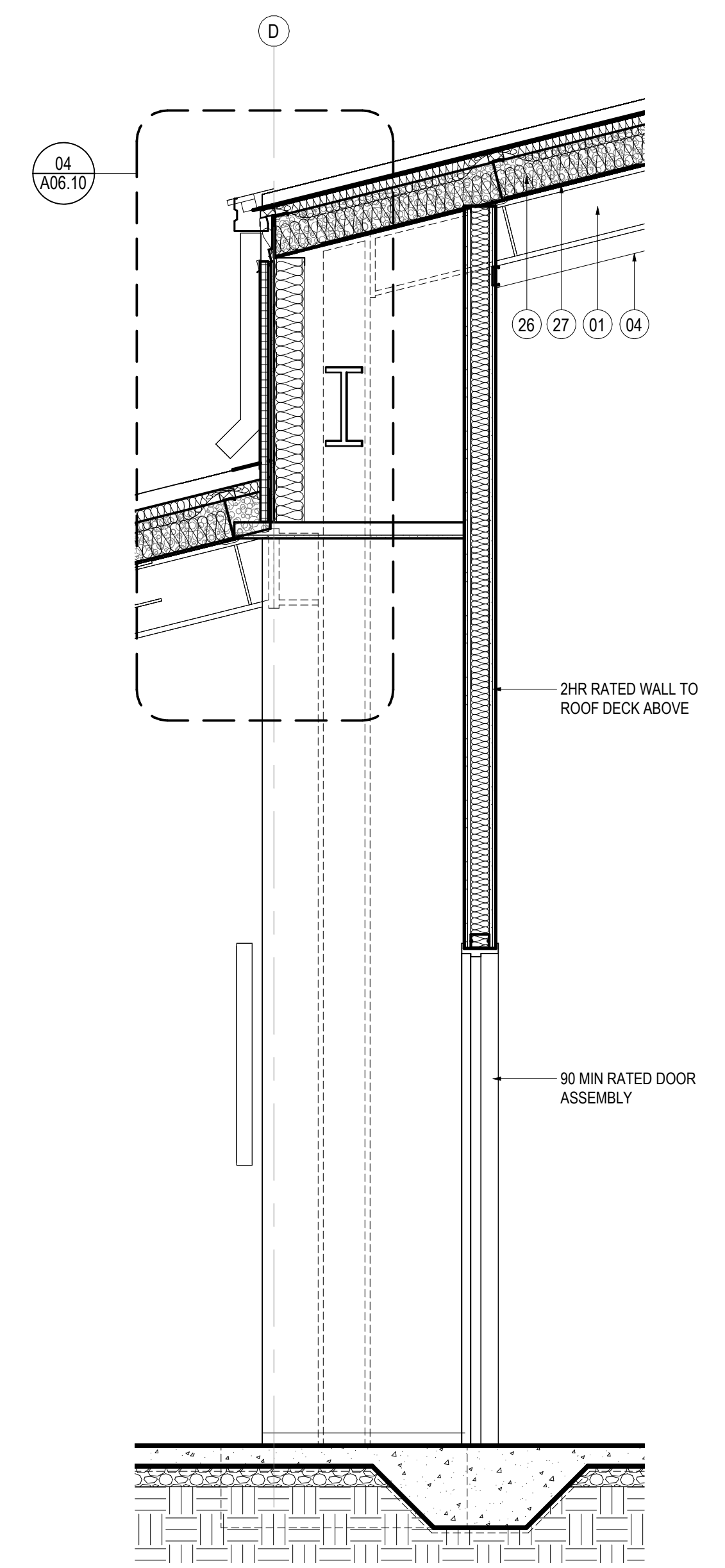
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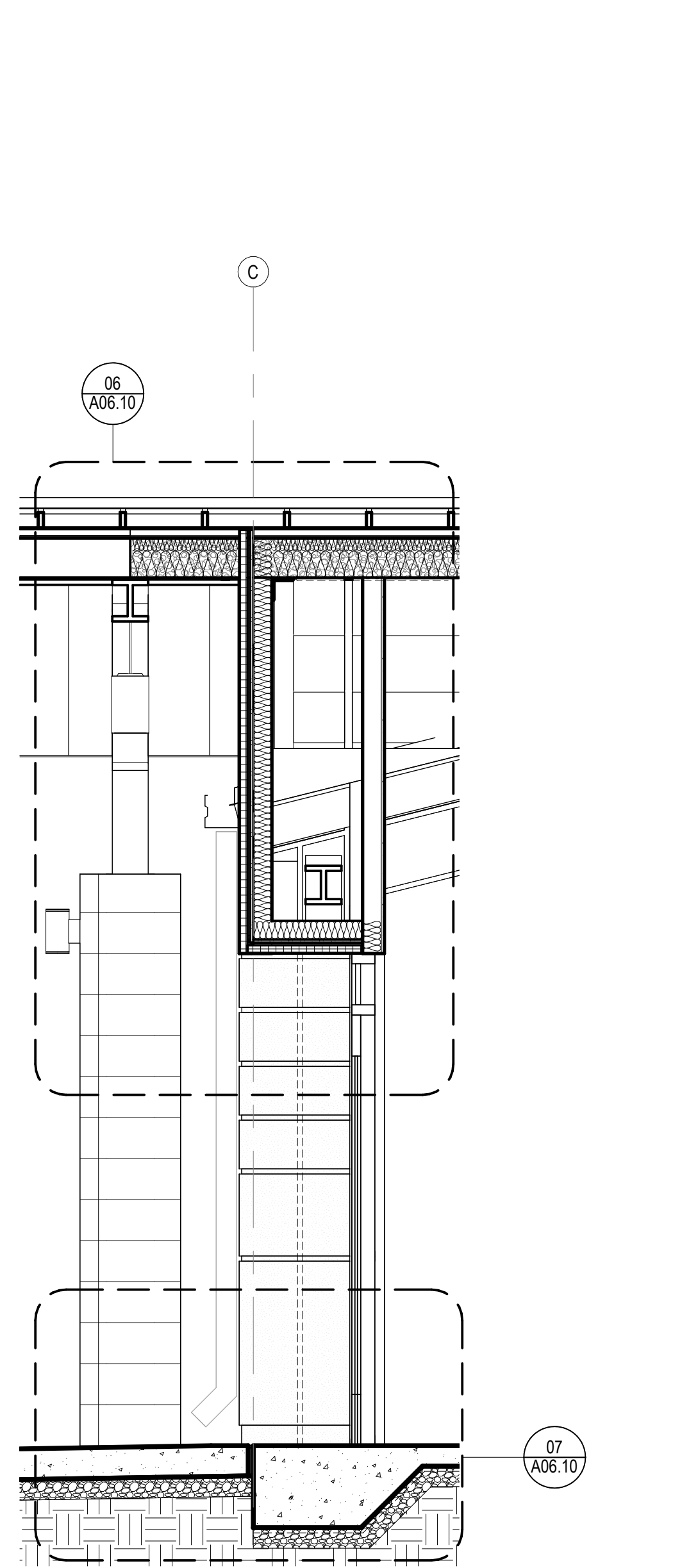
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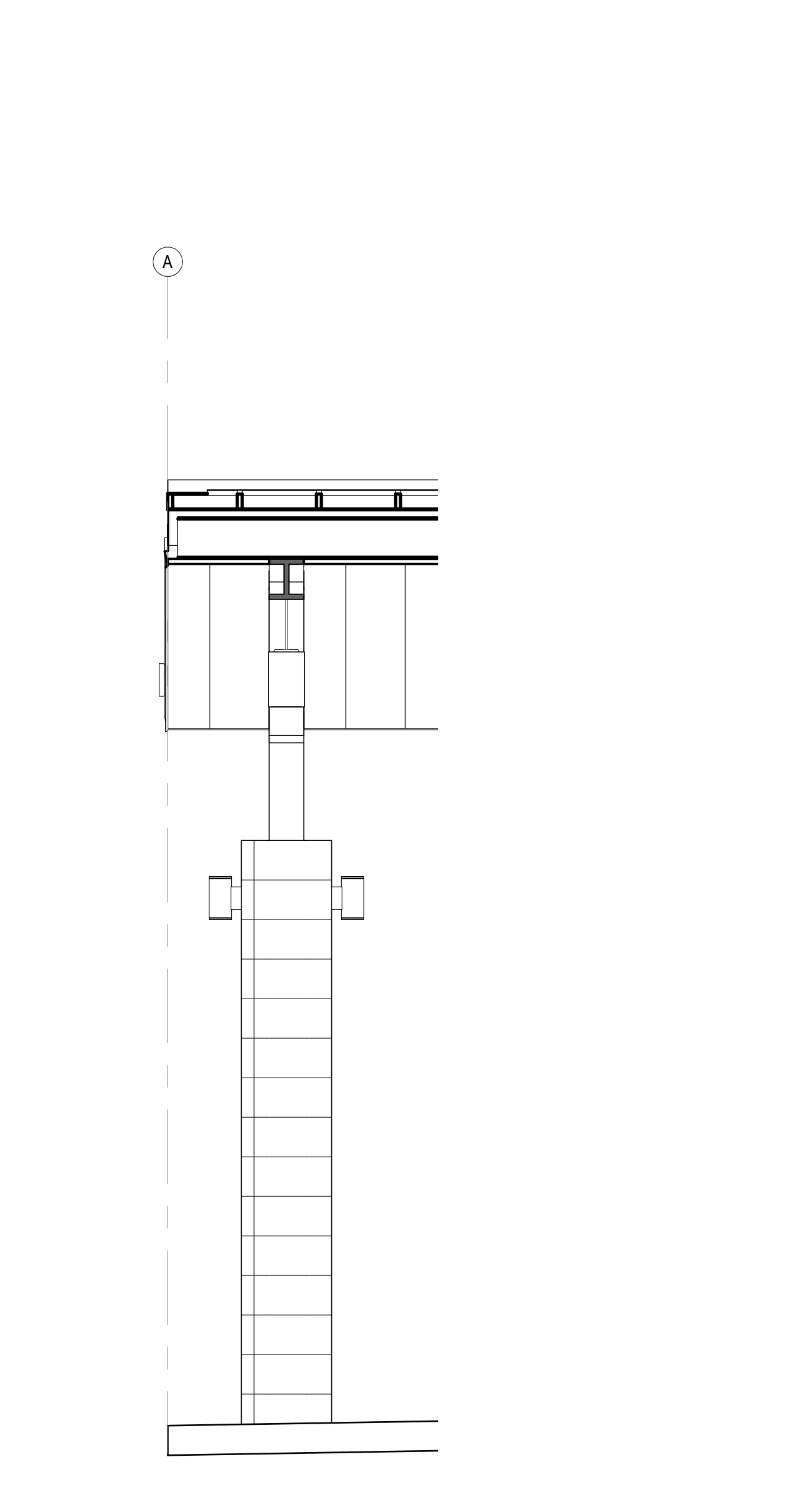
01 NORTH WALL AT STAGE
SCALE: 1/2" = 1'-0"



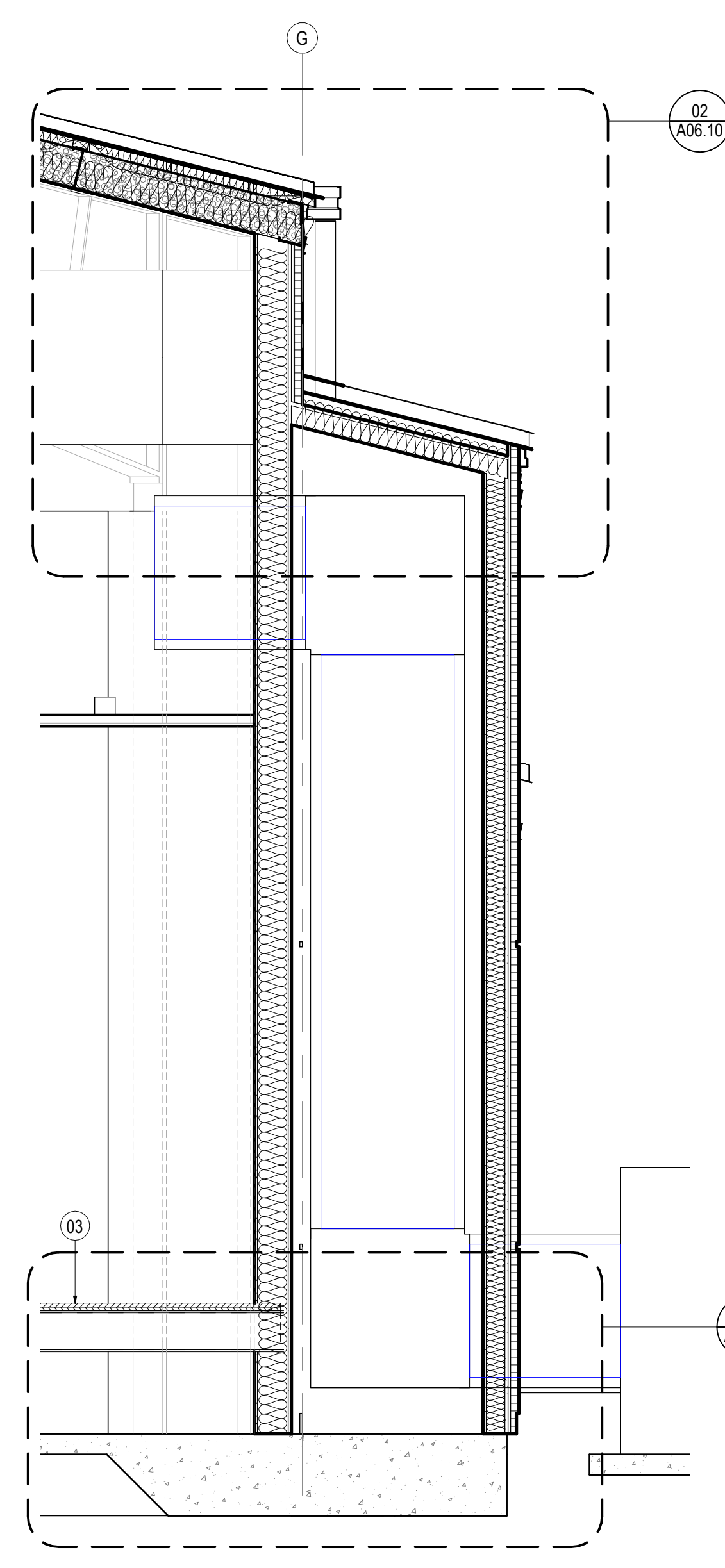
03 WALL AT NARTHEX / SANCTUARY
SCALE: 1/2" = 1'-0"



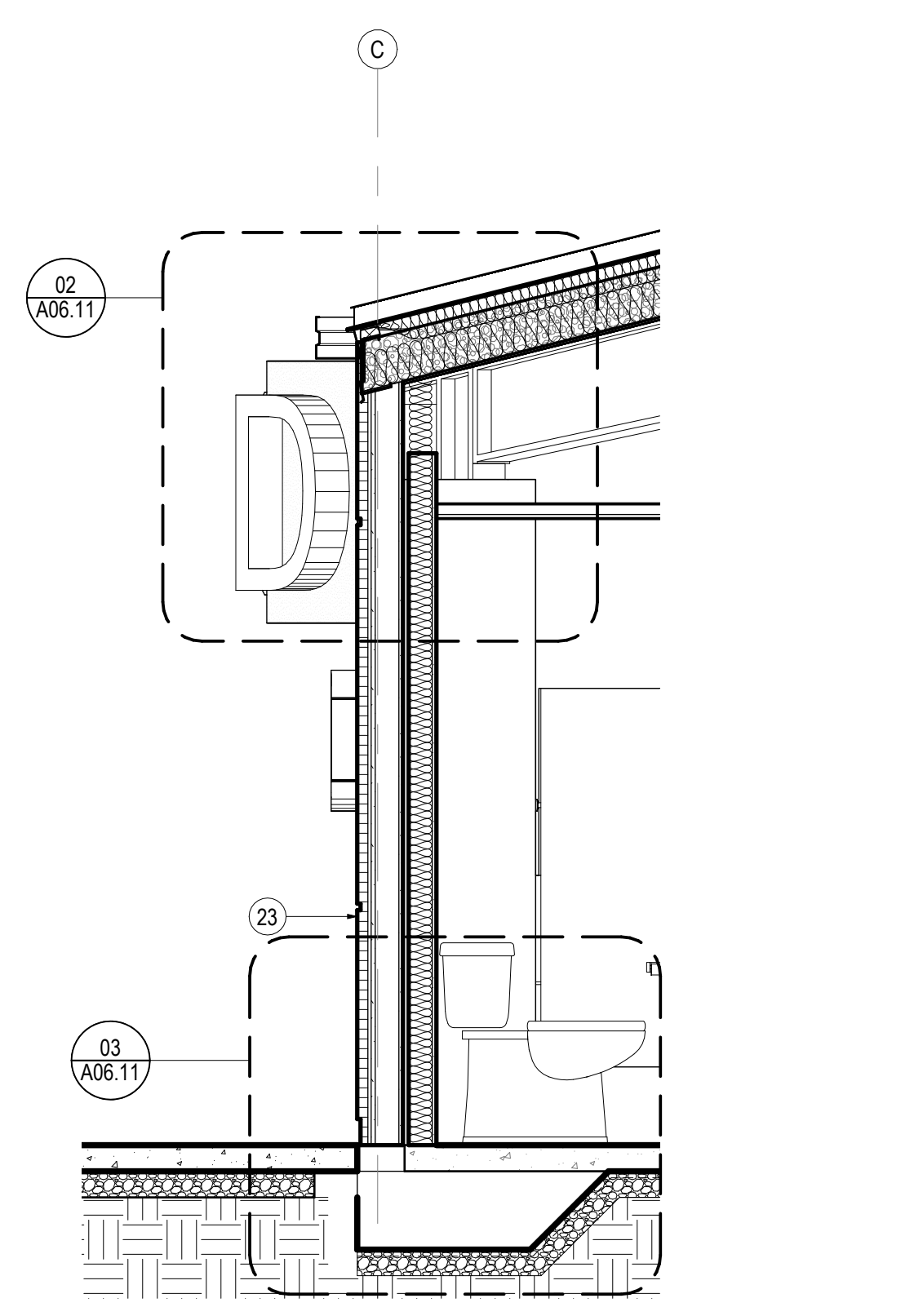
05 WALL AT MAIN ENTRY
SCALE: 1/2" = 1'-0"



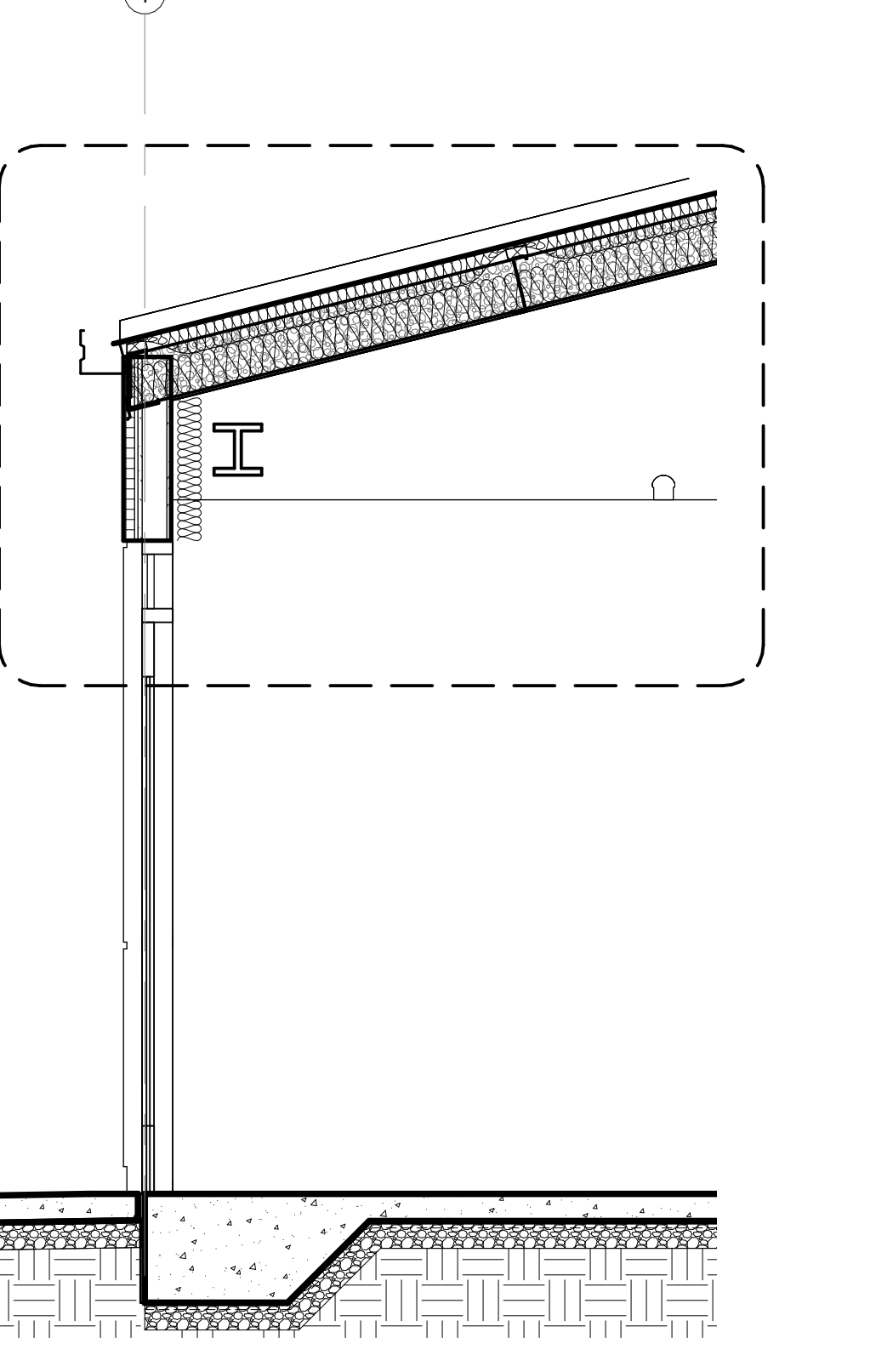
07 EDGE OF COVERED DRIVE
SCALE: 1/2" = 1'-0"



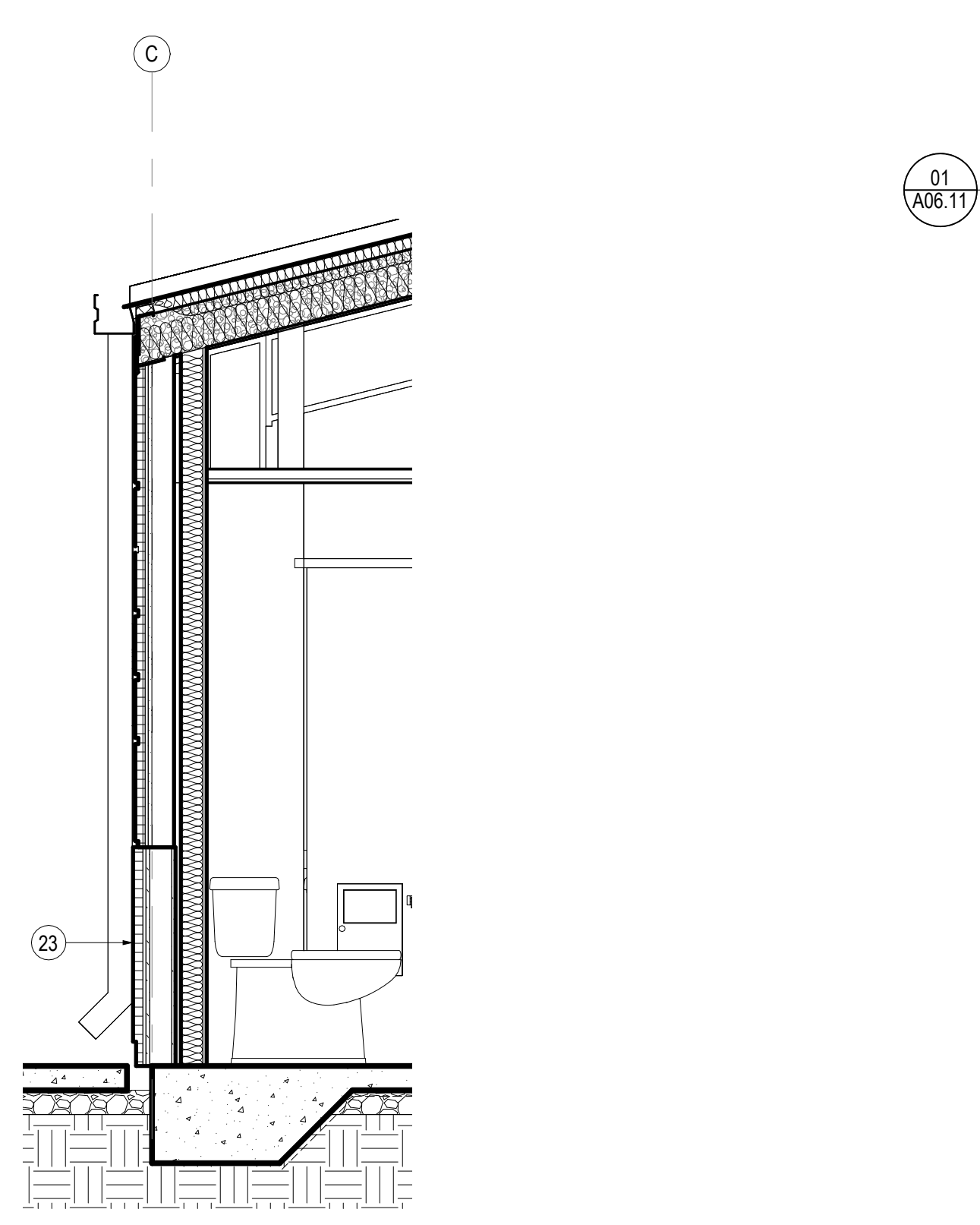
02 NORTH WALL AT HVAC CHASE
SCALE: 1/2" = 1'-0"



04 SOUTH WALL AT RESTROOMS
SCALE: 1/2" = 1'-0"

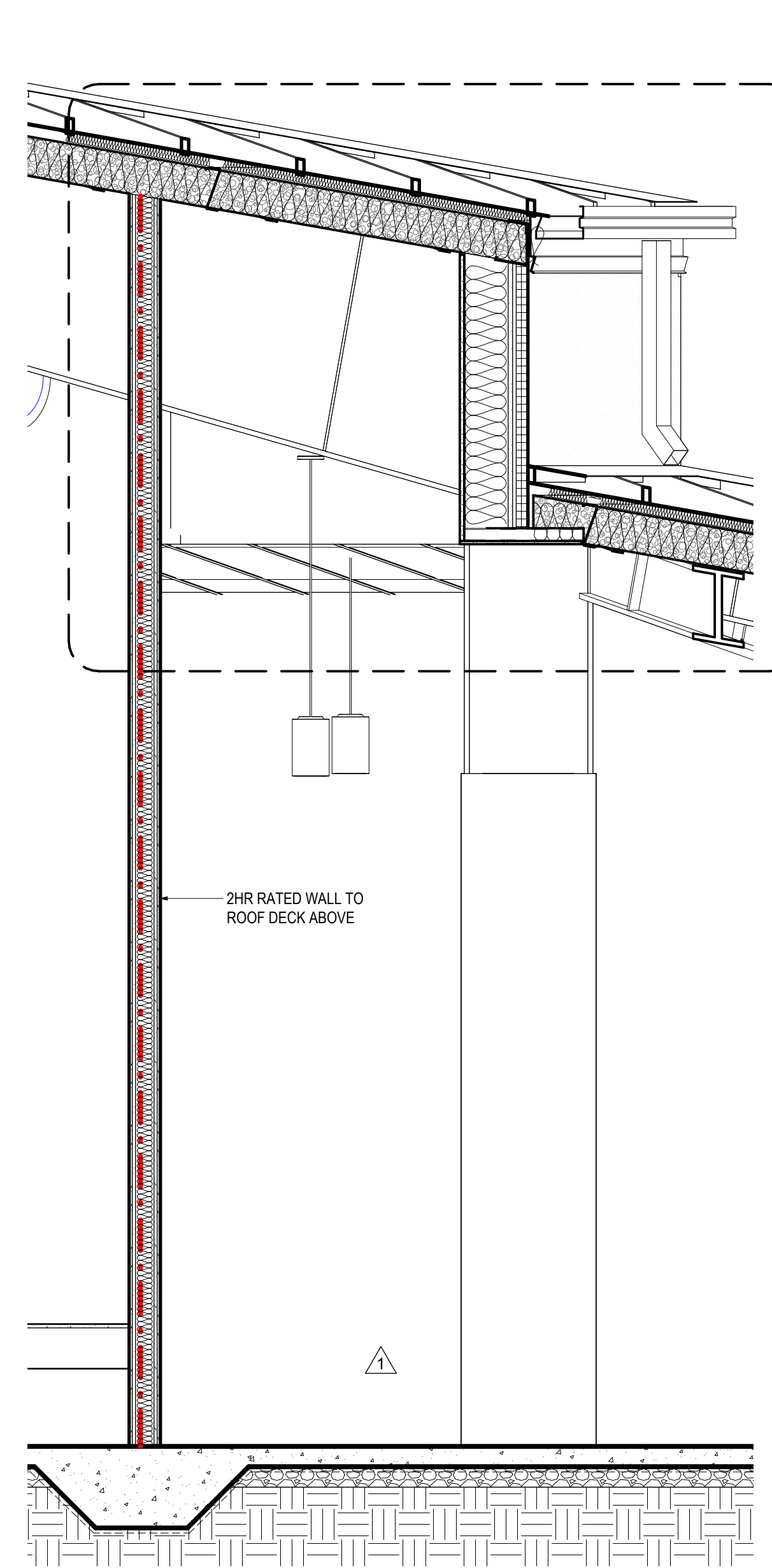


06 WALL AT LOBBY ENTRY
SCALE: 1/2" = 1'-0"

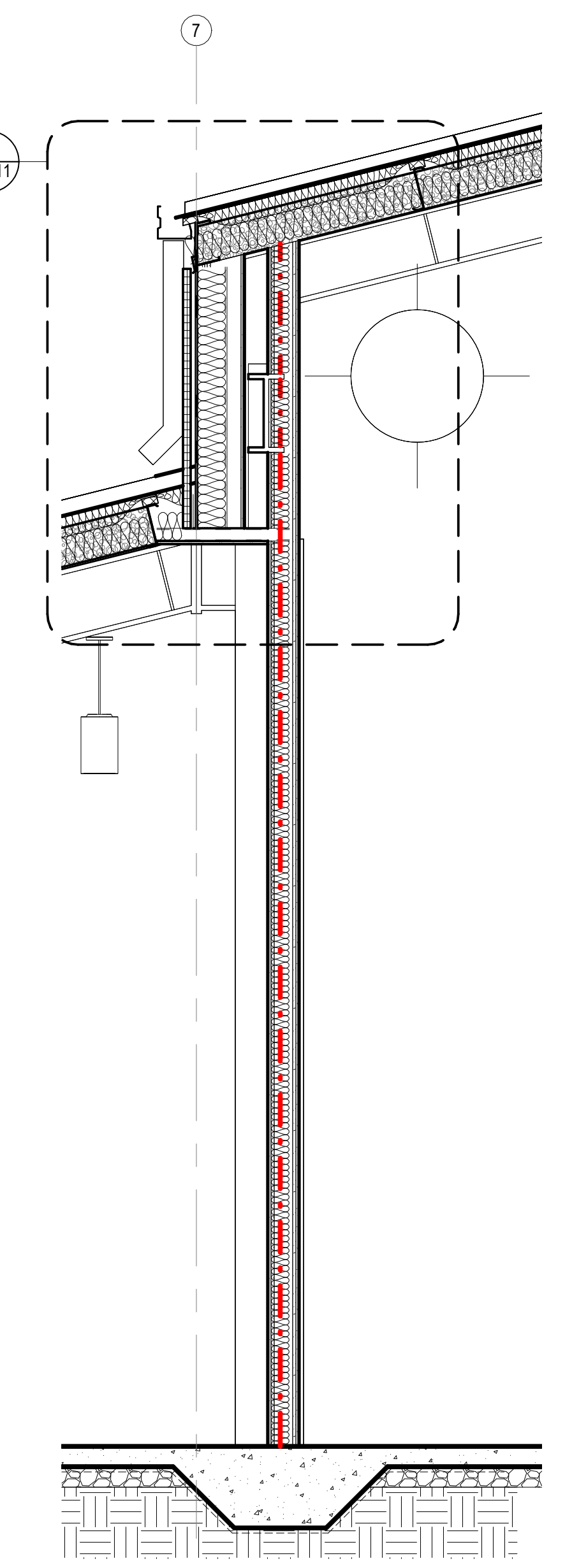


08 SOUTH WALL AT EIFS
SCALE: 1/2" = 1'-0"

10/14/2024 5:07:05 PM C:\Private\Drawings\Bentley\Local\23024_00_3D\Community Church\andrew.mcdellan\FHCL.rvt



02 SANCTUARY AT CHAMFERED CORNER
SCALE: 1/2" = 1'-0"



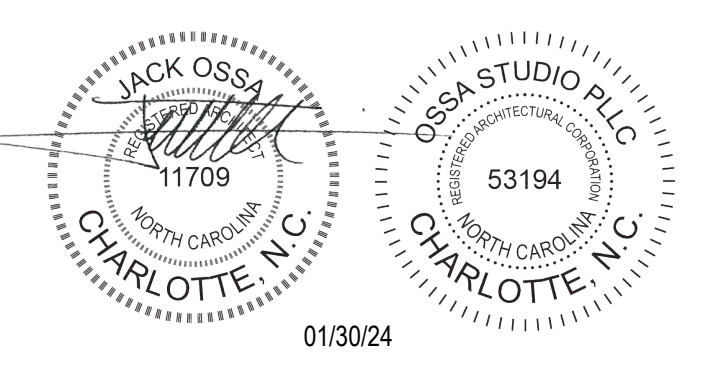
01 EAST / WEST SANCTUARY WALL
SCALE: 1/2" = 1'-0"

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- 57 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 6" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 59 E.I.F.S. DRAINABLE TRACK
- 60 THRU-WALL STAINLESS STL. FLASHING W/ DRIP EDGE - FLASHED INTO AIR AND WATER BARRIER MEMBRANE
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- 62 STANDING SEAM MTL. ROOF (OWNER FURNISHED) ON 3/4" FRT PLYWOOD ON 6" MTL. STUD FRAMING
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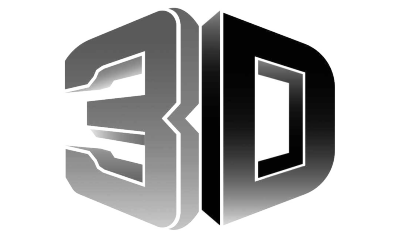


PROJECT TEAM

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704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
1 05/8/24	PERMIT REVIEW COMMENTS

Project Name



community church
making church come *alive*
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

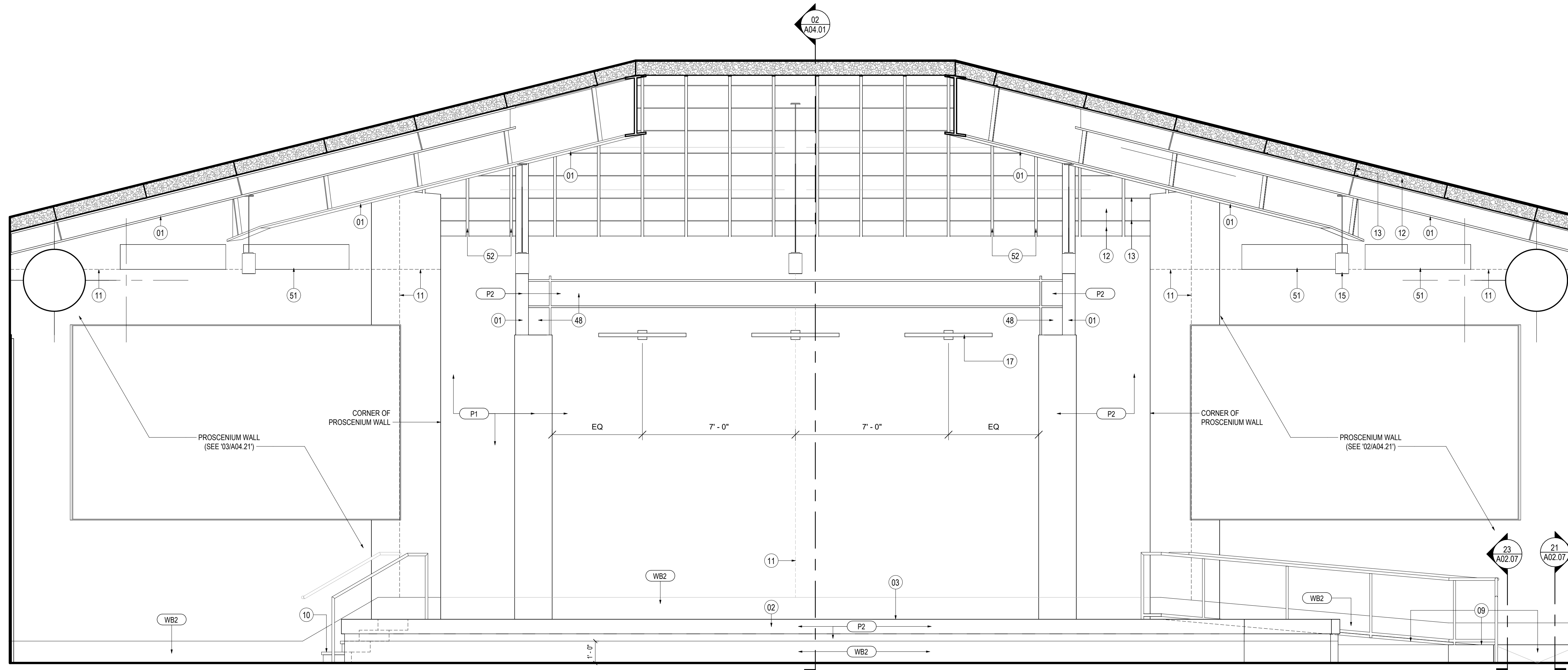
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WALL SECTIONS

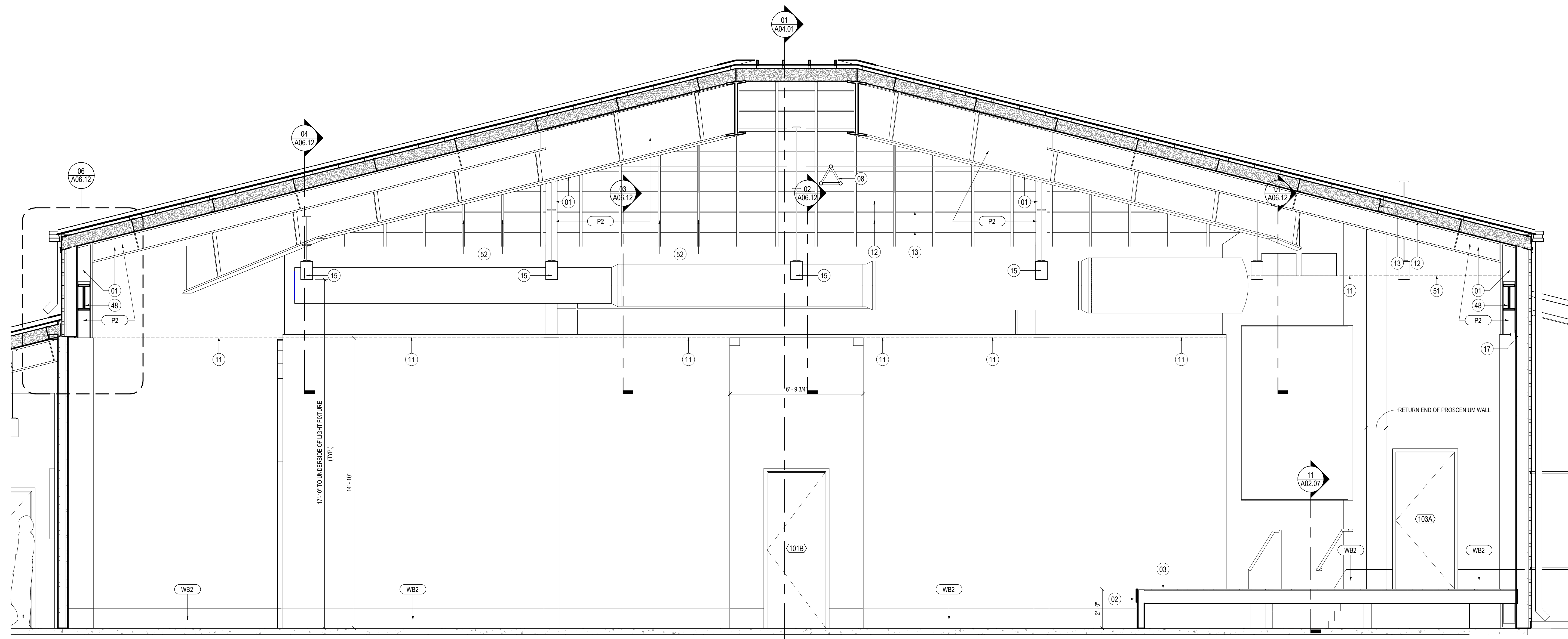
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1/2" = 1'-0"

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01 SANCTUARY STAGE
SCALE: 3/8" = 1'-0"



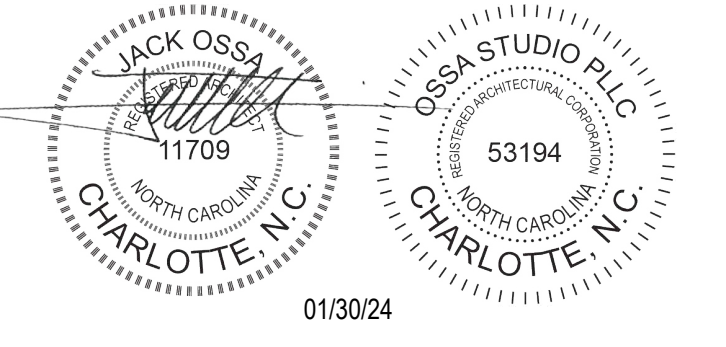
02 SANCTUARY (LEFT WALL)
SCALE: 3/8" = 1'-0"

SHEET NOTES

- 01 STRUCT. STL. - PAINT BLACK WHERE EXPOSED
- 02 GWB AND MDF STAGE APRON - PAINT BLACK
- 03 ELEVATED FLOOR w/ LVT FINISH ON 1/4" T. TEMPERED MASONITE, 1/2" HOMASOTE, AND 3/4" FRT PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 04 SLOPED GWB "CLOUD" AT UNDERSIDE OF STL. STRUCT.
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- 08 RAMP w/ LVT FINISH ON (2) LAYERS 3/4" FRT PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
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- 12 EXPOSED ROOF INSULATION
- 13 MTL. Z PURLIN (TYP.)
- 14 SUSPENDED PROJECTION SCREEN (SEE ELEC.)
- 15 LED CYLINDER PENDANT LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 16 LED WALL SCONCE LIGHT FIXTURE (TYP.) (SEE ELEC.)
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Date	Description
01/30/24	FOR CONSTRUCTION

Project Name

3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

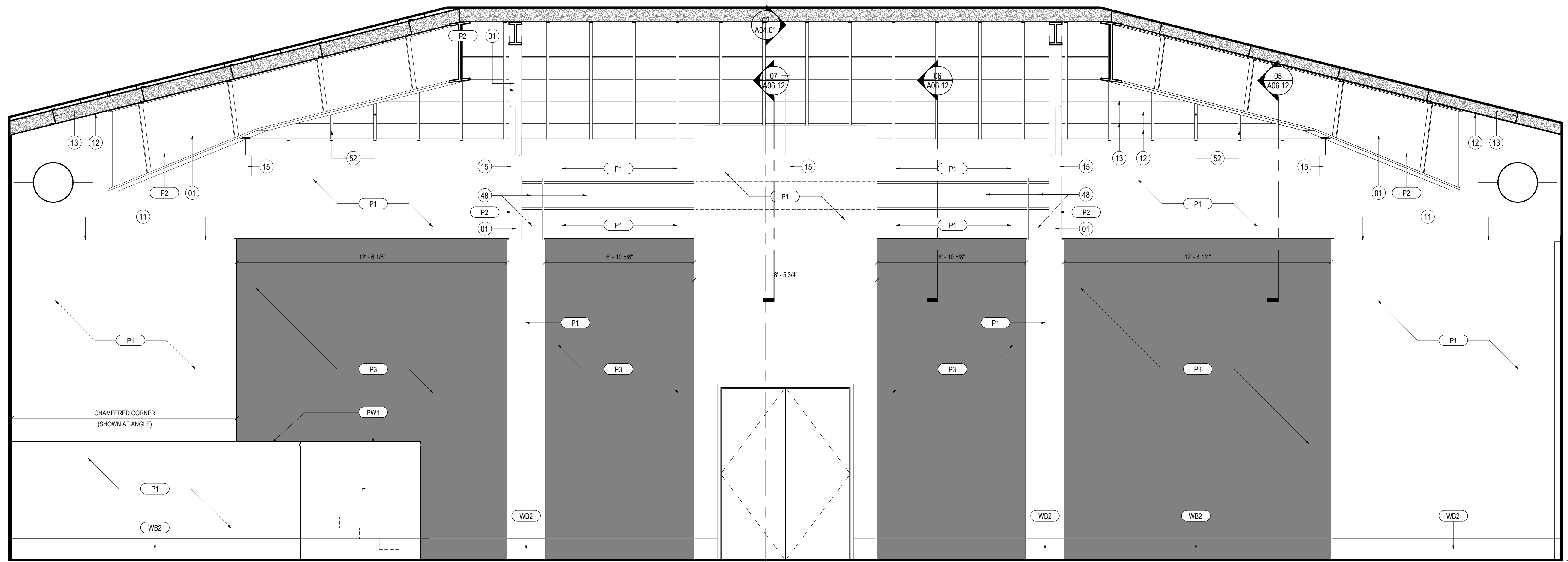
INTERIOR ELEVATIONS

Scale

3/8" = 1'-0"

A04.20

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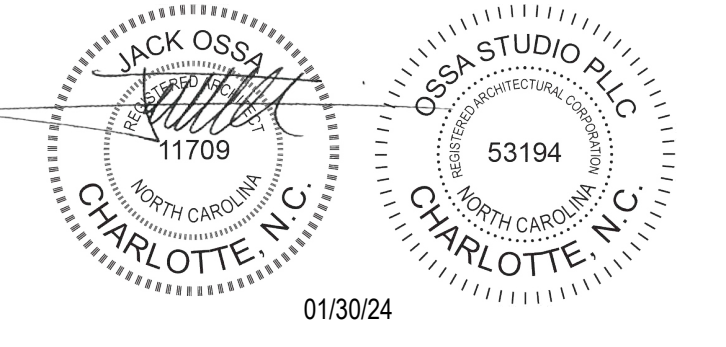
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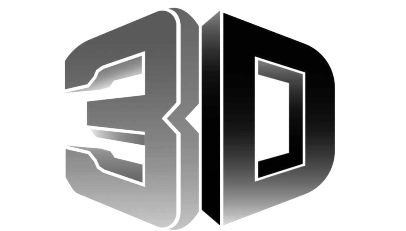


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Date	Description
10/30/24	FOR CONSTRUCTION

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

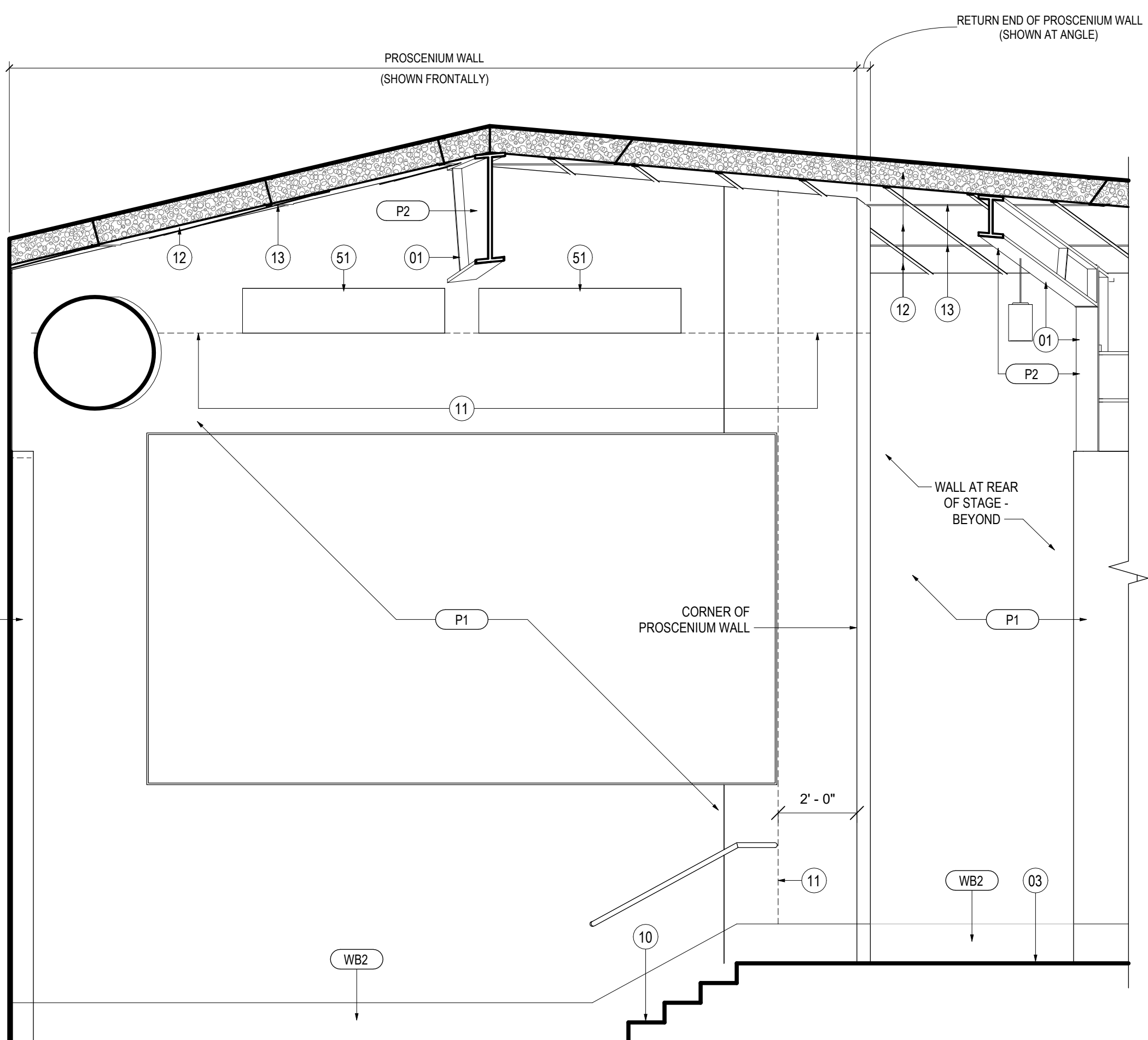
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INTERIOR ELEVATIONS

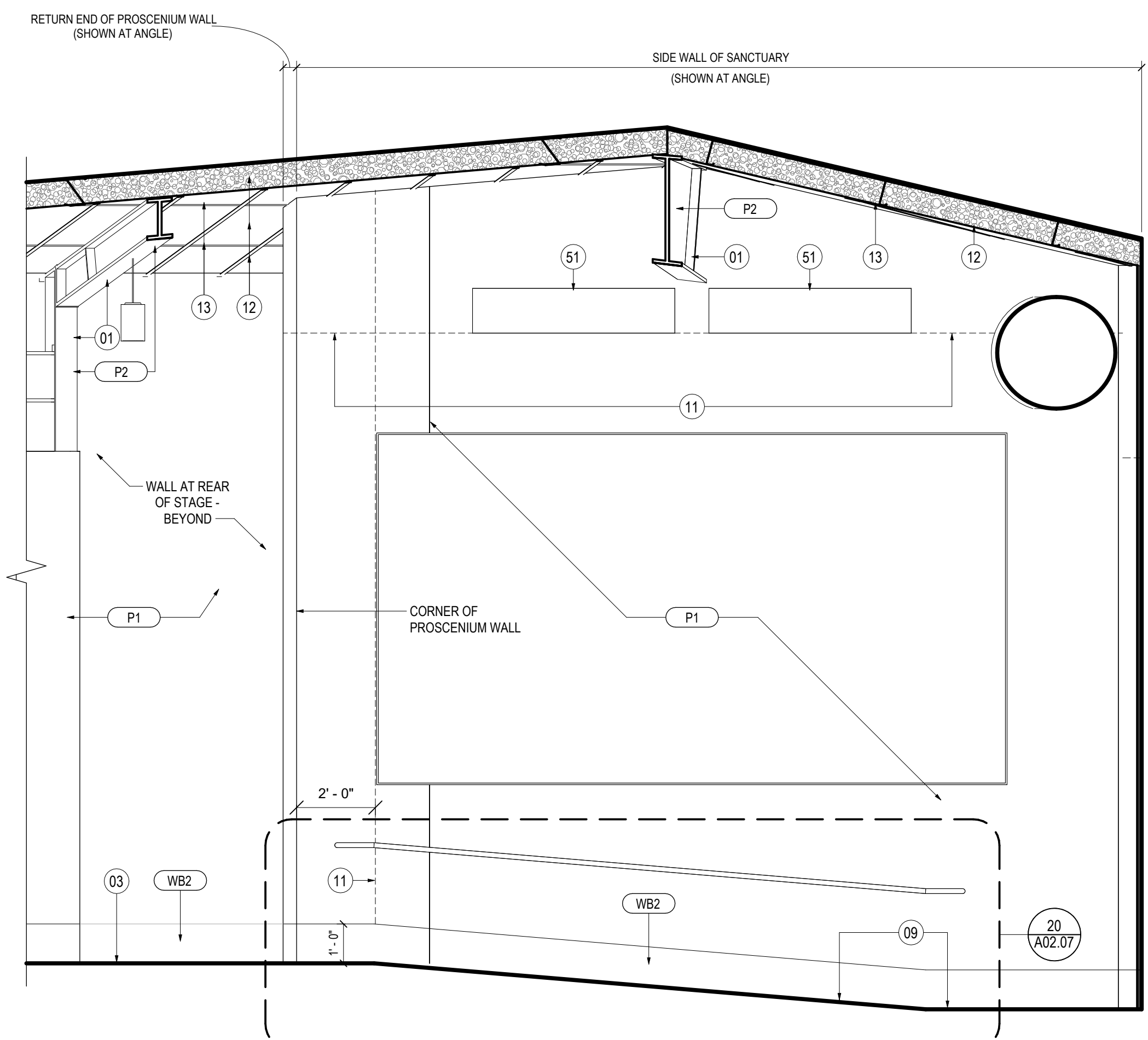
Scale

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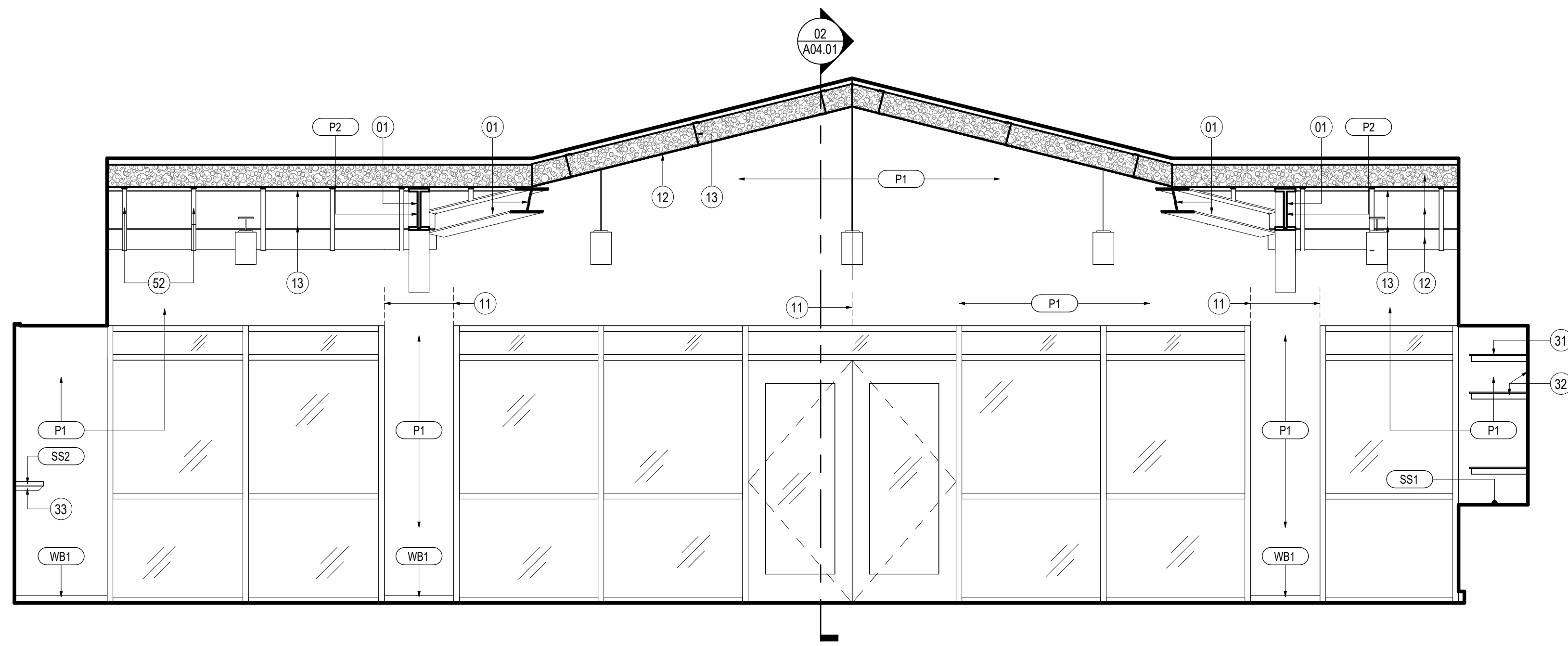
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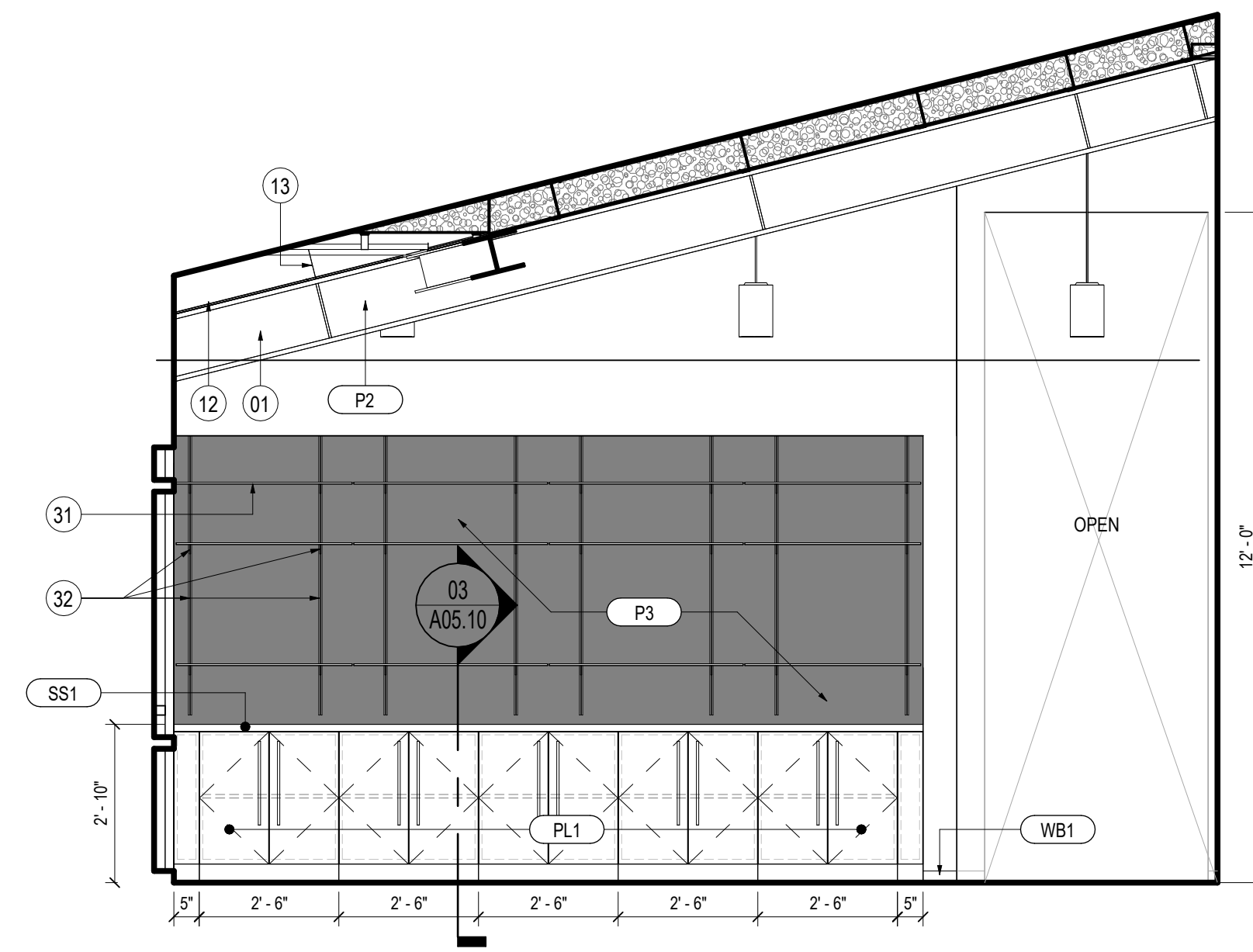
03 PROSCENIUM WALL (LEFT)
SCALE: 3/8" = 1'-0"



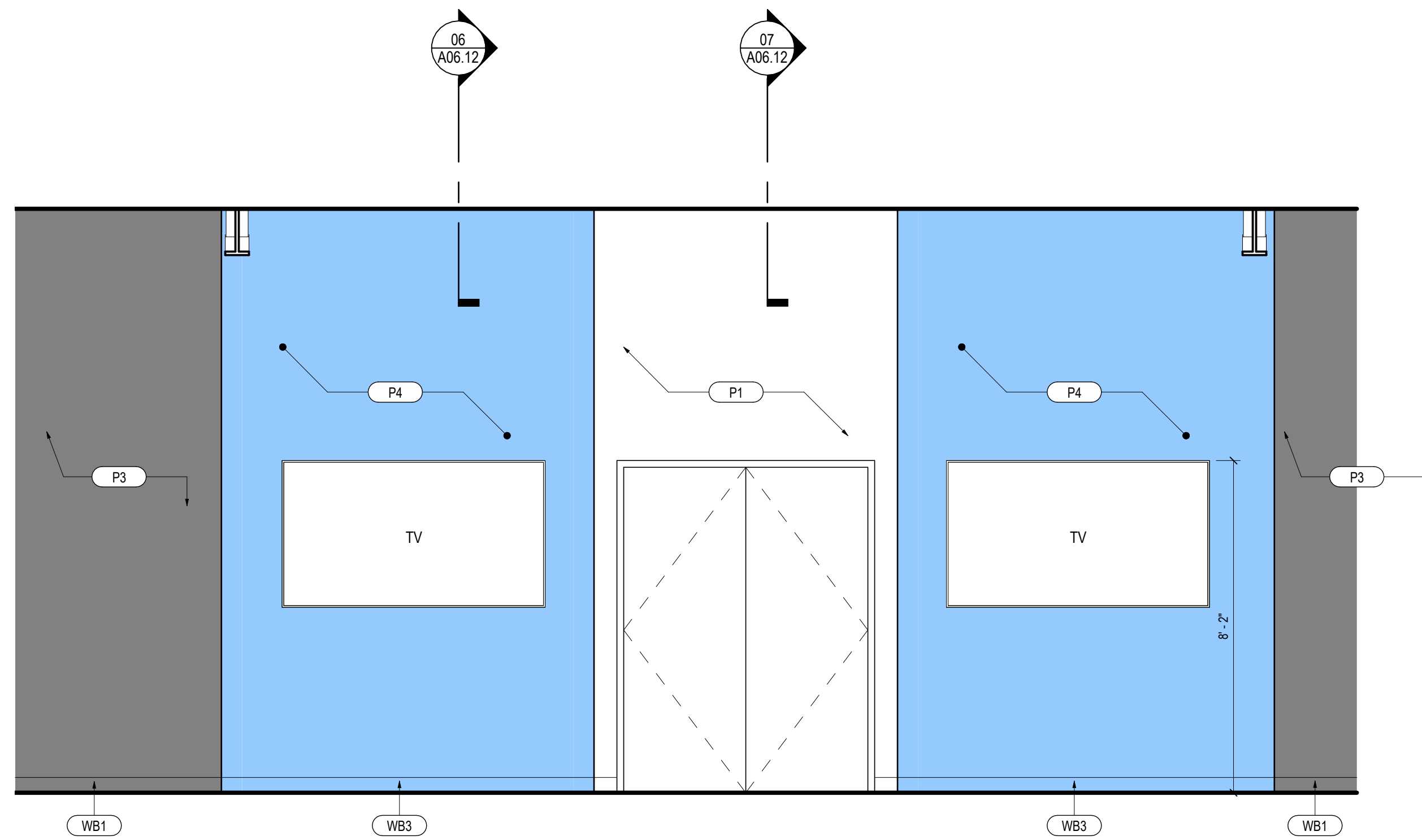
02 PROSCENIUM WALL (RIGHT)
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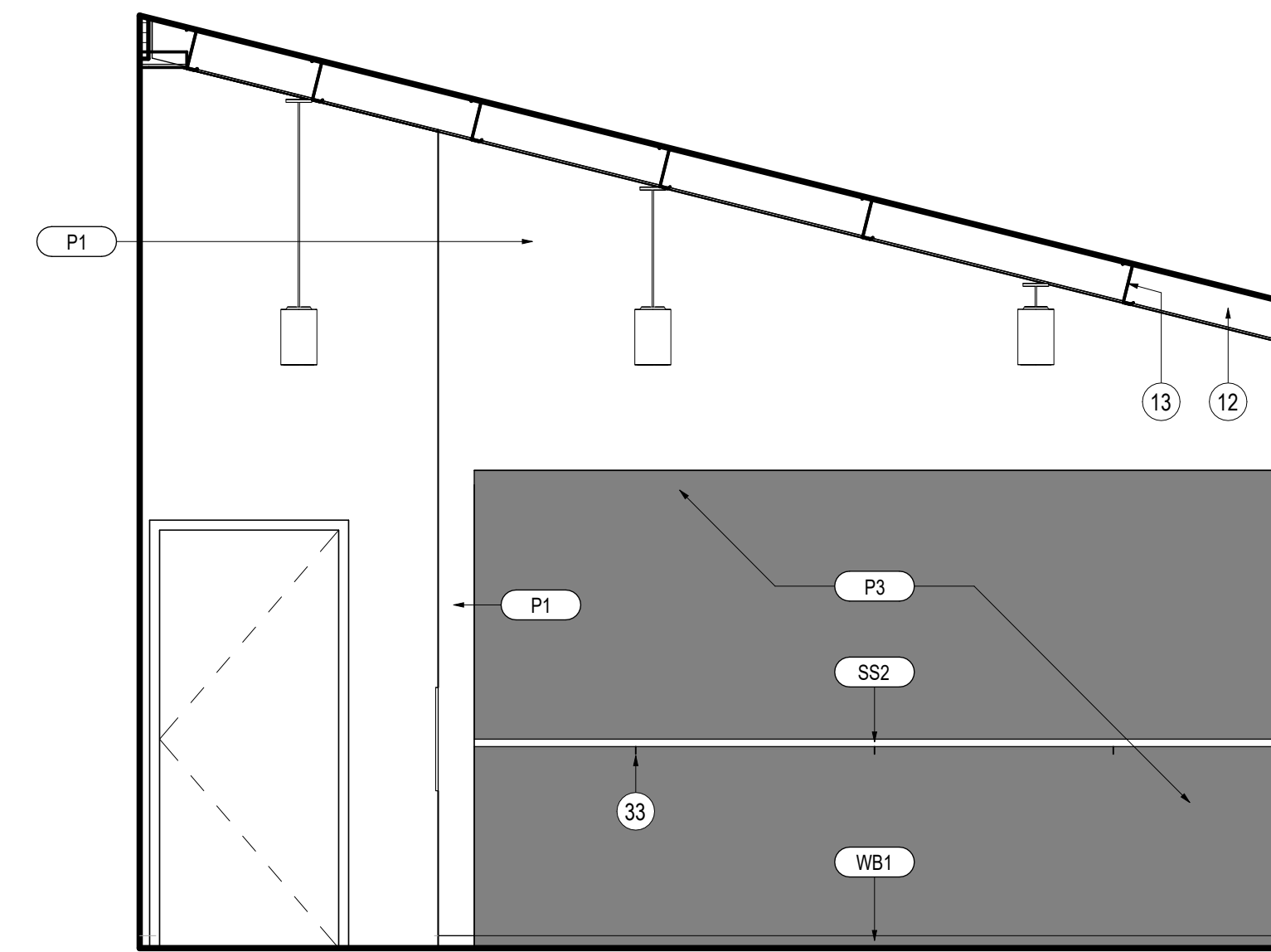
04 NARTHEX (ENTRY WALL)
SCALE: 3/8" = 1'-0"



01 NARTHEX (LEFT WALL)
SCALE: 3/8" = 1'-0"



05 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



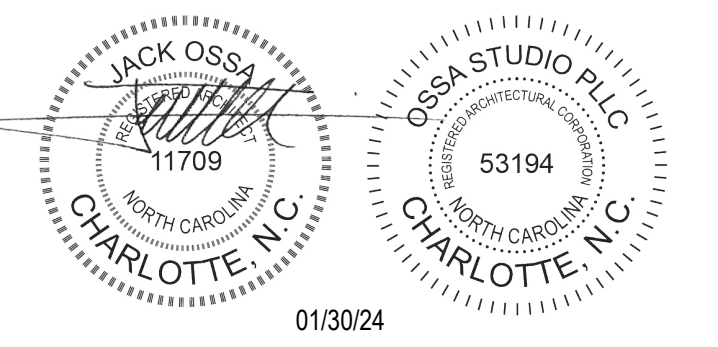
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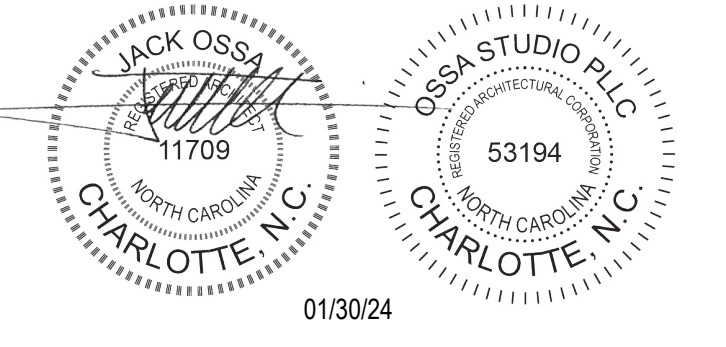
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- 17 RECTANGULAR BEAM LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 18 RECESSED LED LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 20 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS.) ON MTL. STUD FURRING AT STL. COLUMN
- 21 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 22 REVEAL (TYP.)
- 23 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS.) W/ 1-1/2" AIR SPACE, 2" RIGID INSUL., AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING
- 24 STANDING SEAM MTL. ROOF (OWNER FURNISHED)
- 25 CONT. R-11 VINYL-FACED BLANKET INSUL. ON R-3 THERMAL SPACER BLOCKS (THERMAL SPACER BLOCKS TYP. AT EA. PURLIN)
- 26 R-19 FIBERGLASS BLANKET INSUL. BET. PURLINS (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 27 CONT. BLACK FIBER-REINFORCED VAPOR BARRIER MEMBRANE AT BOTTOM OF PURLINS
- 28 GUTTER AND FLASHING BY MTL. BLDG. MANUF.
- 29 DOWNSPOUTS BY MTL. BLDG. MANUF. (TYP.)
- 31 3/8" T. x 24" D. CLEAR TEMPERED GLASS SHELVES (TYP.)
- 32 ADJUSTABLE SHELF BRACKETS & FLUSH-MOUNTED SHELF TRACKS (TYP.)
- 33 RAKES INSIDE WALL MOUNT EH COUNTER SUPPORT BRACKETS
- 34 OPEN TO UPPER ROOF ABOVE
- 35 MTL. C PURLIN BY MTL. BLDG. MANUF.
- 36 PRE-FIN. COUNTER FLASHING
- 37 TIE-IN TRIM BY MTL. BLDG. MANUF.
- 38 BACK-UP PLATE BY MTL. BLDG. MANUF.
- 39 OUTSIDE MTL. CLOSURE BY MTL. BLDG. MANUF.
- 41 STL. SPANDREL ANGLE AT BOTTOM OF MTL. Z PURLINS BY MTL. BLDG. MANUFACTURER
- 42 COMPRESSIBLE FILLER
- 43 NEW CONC. SIDEWALK
- 44 ALUM. DOOR AS SCHEDULED
- 45 DOOR THRESHOLD AS SCHEDULED - SET ON FULL BED OF MASTIC
- 46 TURNED-DOWN CONC. SLAB (SEE STRUCT.)
- 47 STRUCT. STL. COLUMN
- 48 STRUCT. STL. MOMENT FRAME - PAINT BLACK WHERE EXPOSED
- 49 SOUND ATTENUATION BLANKET (TYP.)
- 51 LINEAR SLOT RETURN (SEE MECH.)
- 52 MTL. SUPPORT BANDING - SPACE AS DIMENSIONED ON ENLARGED RCP (TYP.)
- 53 UNHINGED / RECESSED KNOXBOX (ALUM. FIN.)
- 54 FLUID-APPLIED AIR BARRIER MEMBRANE
- 55 JOINT SEALANT AND BACKER ROD
- 56 ALUM. STOREFRONT SYSTEM
- 57 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 6" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 59 E.I.F.S. DRAINABLE TRACK
- 60 THRU-WALL STAINLESS STL. FLASHING W/ DRIP EDGE - FLASHED INTO AIR AND WATER BARRIER MEMBRANE
- 61 R-19 FIBERGLASS BLANKET INSUL. BET. MTL. STUD FRAMING (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 62 STANDING SEAM MTL. ROOF (OWNER FURNISHED) ON 3/4" FRP PLYWOOD ON 6" MTL. STUD FRAMING
- 68 ROLLERSHADE AT EA. EXT. WINDOW (TYP.)
- 69 EAVE TRIM, PANEL, CAP TRIM, AND FLASHING BY MTL. BLDG. MANUF.
- 70 MTL. STUD BRACE (SEE STRUCT.)



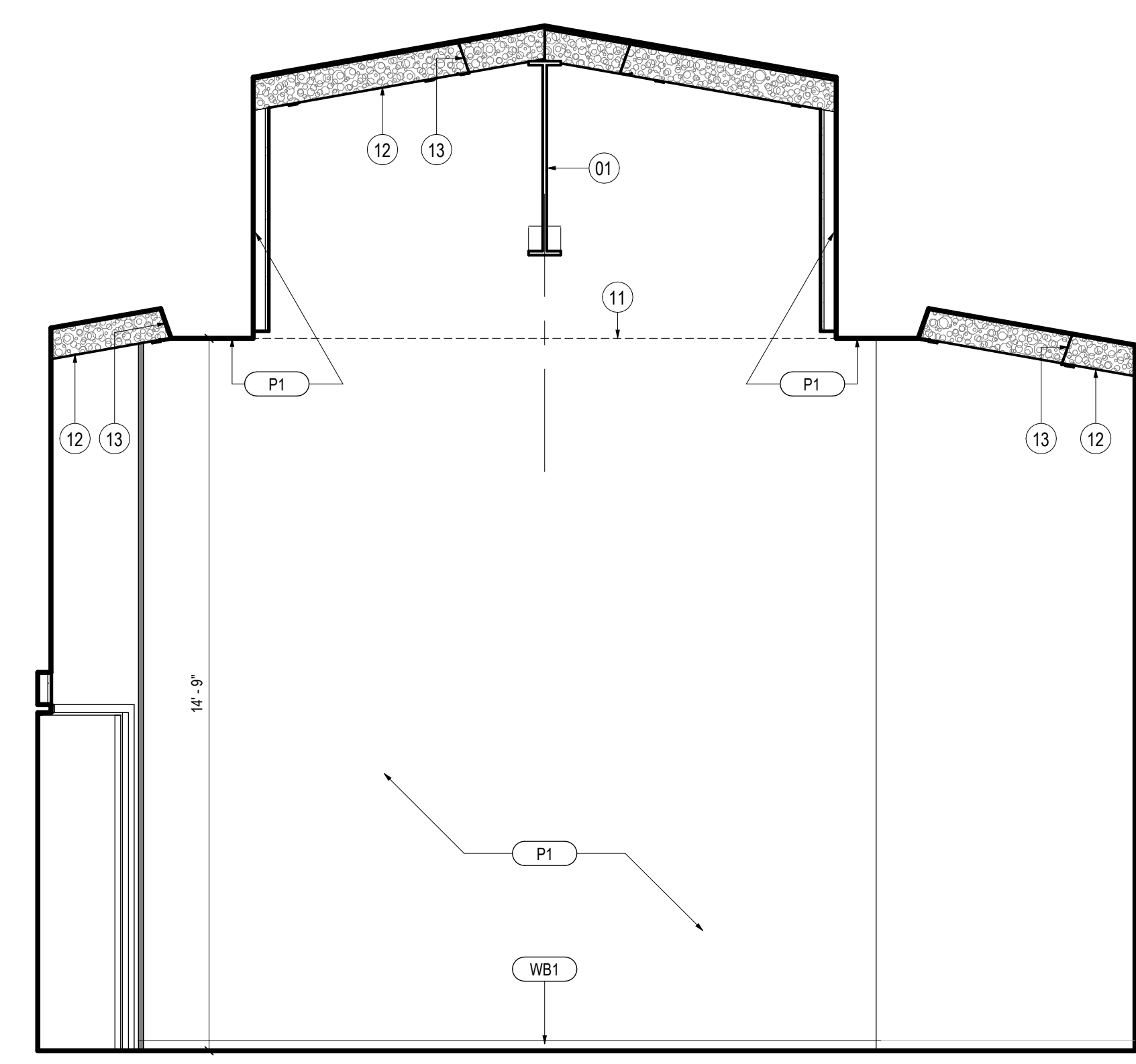
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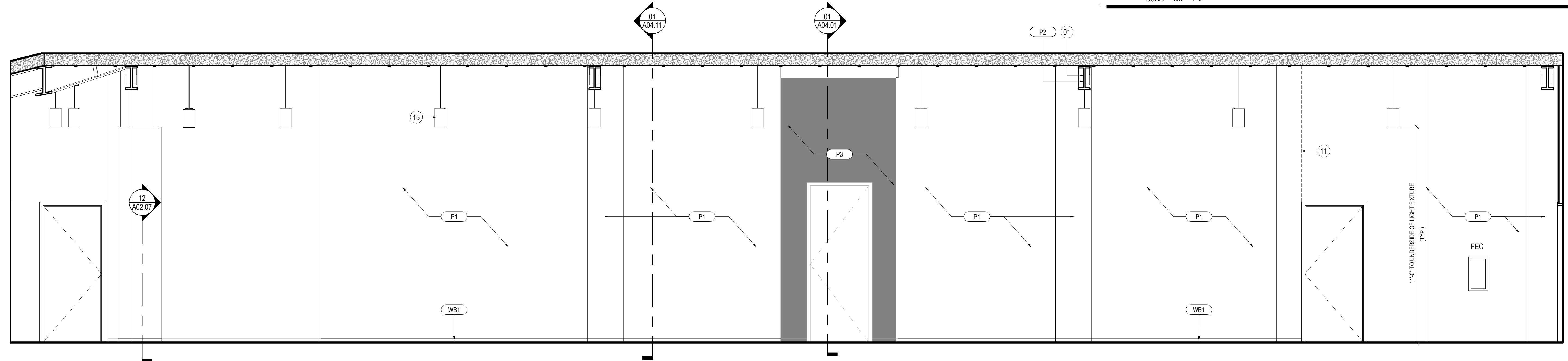
PROJECT TEAM

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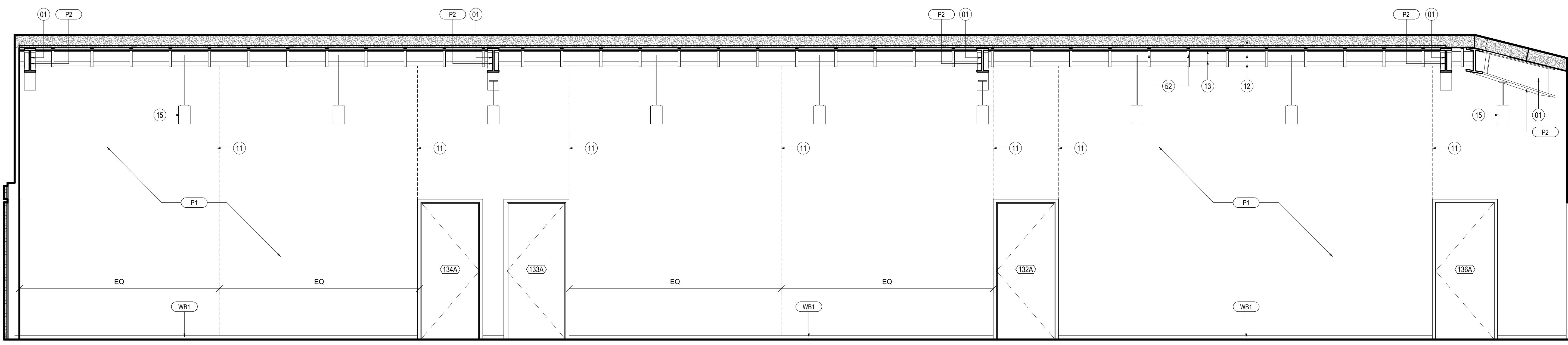
Date	Description
01/30/24	FOR CONSTRUCTION



01 CHAMFERED CORNERS AT AT CORRIDORS 120 & 130
SCALE: 3/8" = 1'-0"



02 CLASSROOM CORRIDOR (LOOKING WEST)
SCALE: 3/8" = 1'-0"



03 CLASSROOM CORRIDOR (LOOKING EAST)
SCALE: 3/8" = 1'-0"

Project Name

3D
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making church come alive
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SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

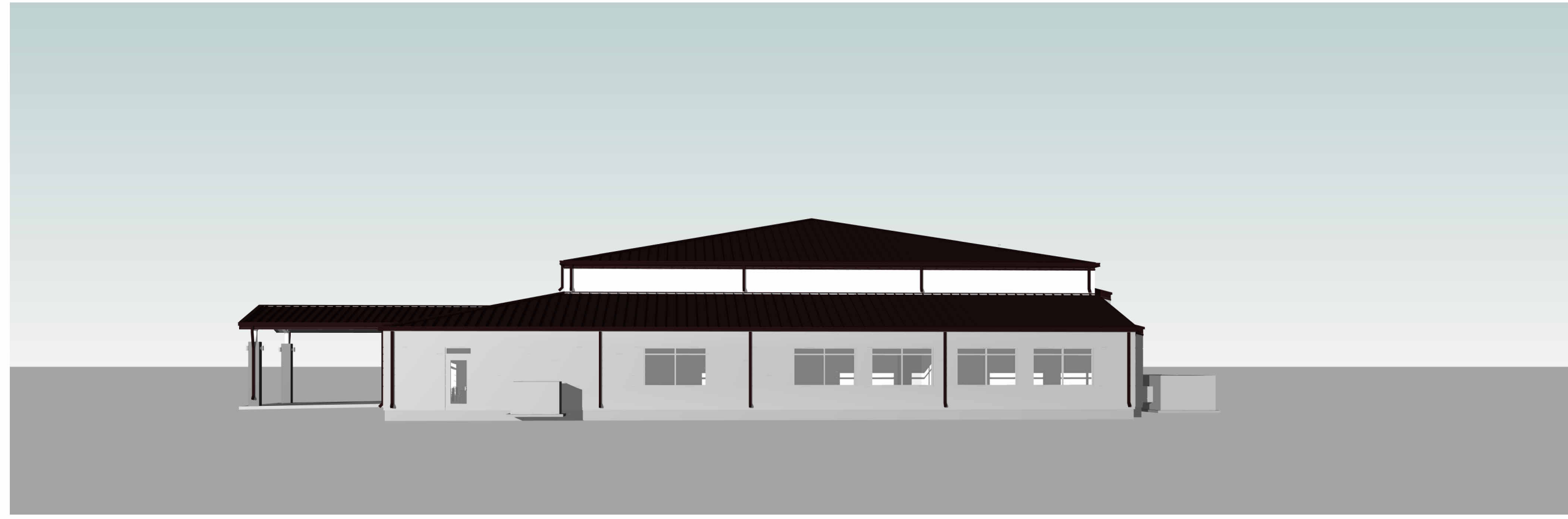
INTERIOR ELEVATIONS

Scale

3/8" = 1'-0"

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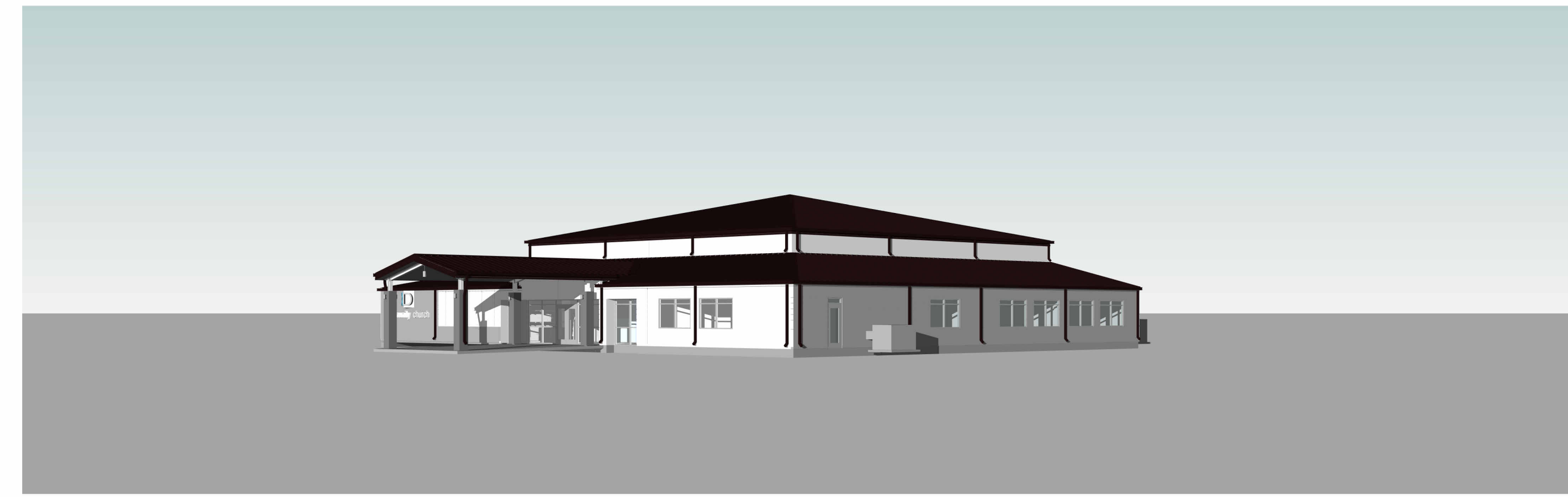
05 RIGHT SIDE PERSPECTIVE - 1
SCALE:



01 FRONT PERSPECTIVE - 1
SCALE:



06 FRONT PERSPECTIVE - 4
SCALE:



02 FRONT PERSPECTIVE - 2
SCALE:



03 FRONT PERSPECTIVE - 3
SCALE:



07 FRONT PERSPECTIVE - 5
SCALE:

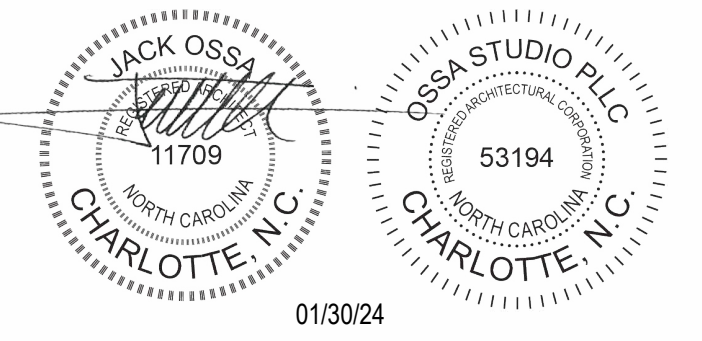


04 LEFT SIDE PERSPECTIVE - 1
SCALE:



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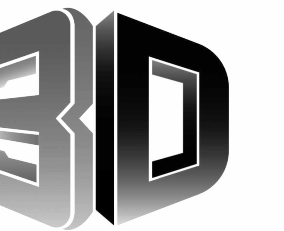
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EXTERIOR VIEWS

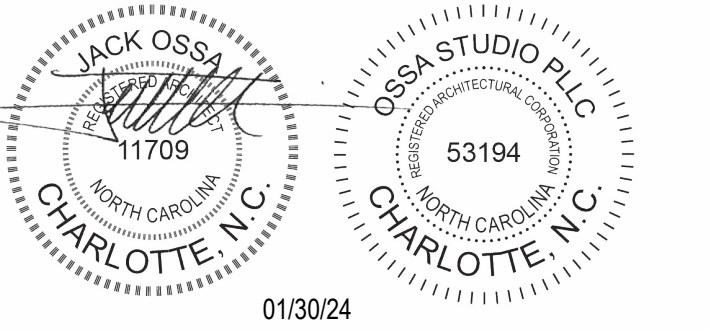
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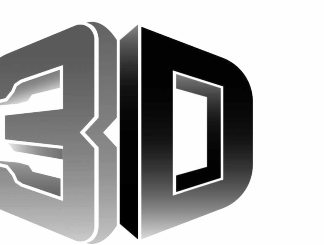
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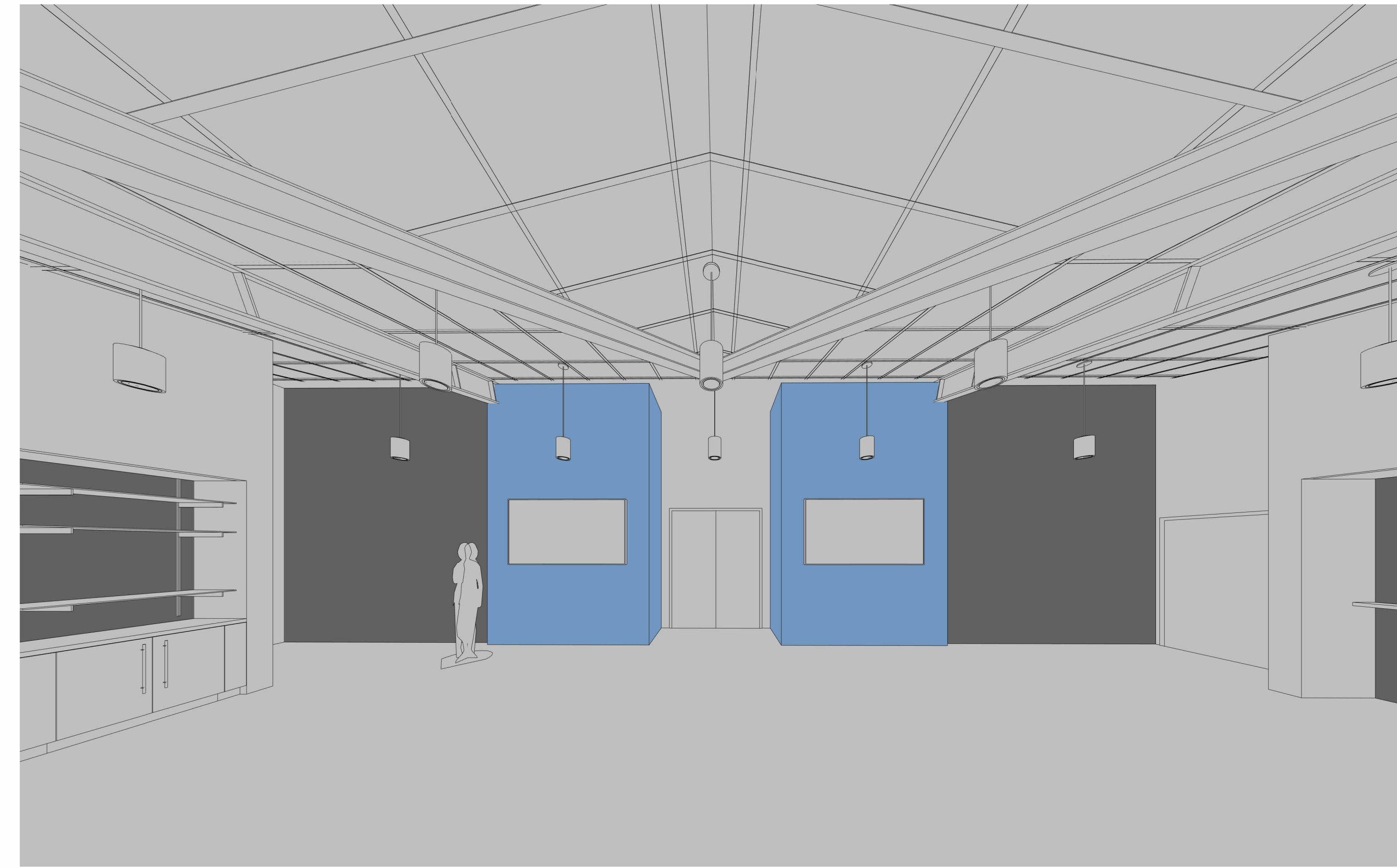
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INTERIOR VIEWS

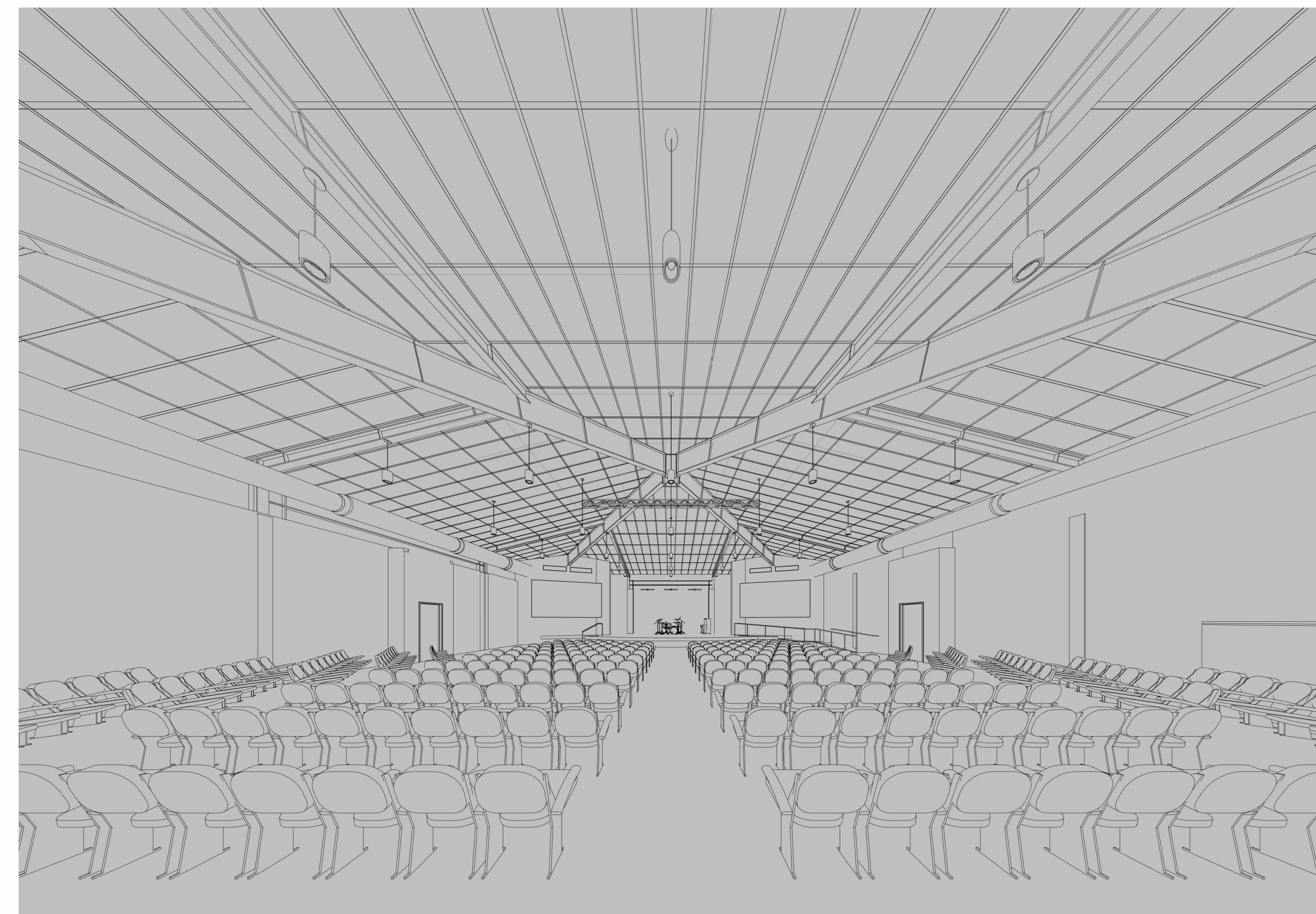
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A05.02



03 NARTHEX - PERSPECTIVE VIEW TOWARDS WELCOME AREA
SCALE:

01 NARTHEX - PERSPECTIVE VIEW TOWARDS SANCTUARY ENTRY
SCALE:



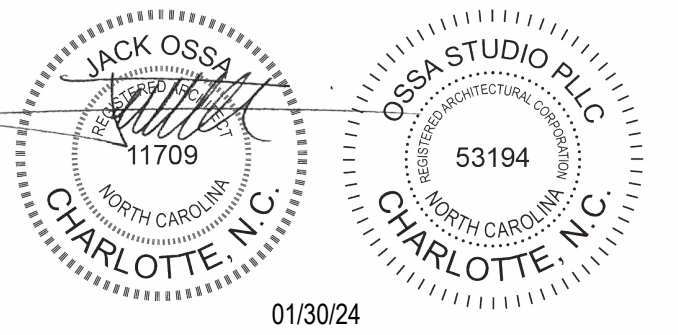
04 NARTHEX - PERSPECTIVE VIEW TOWARDS CHECK-IN AREA
SCALE:

02 SANCTUARY - PERSPECTIVE VIEW 1
SCALE:



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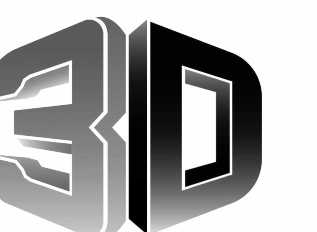
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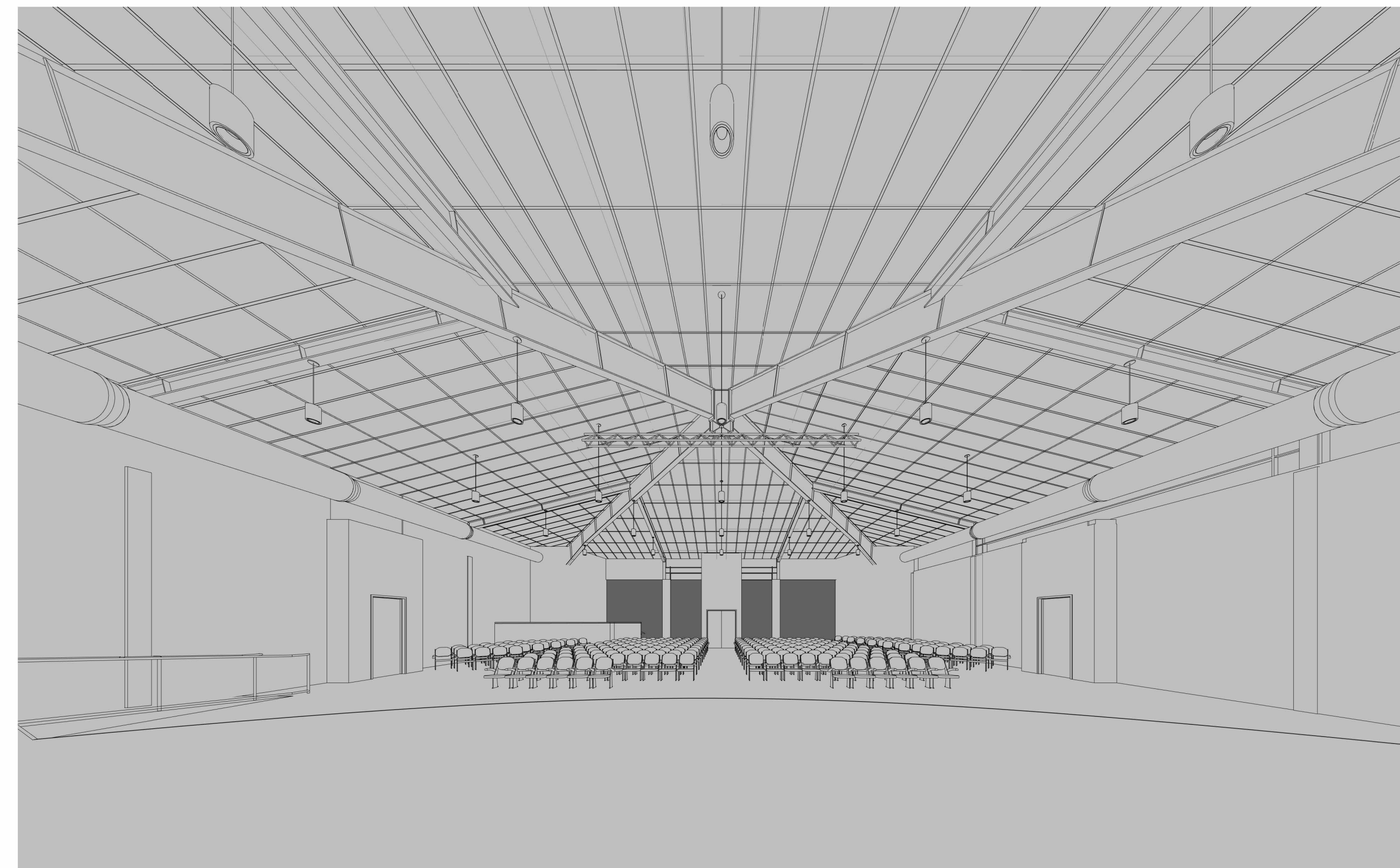
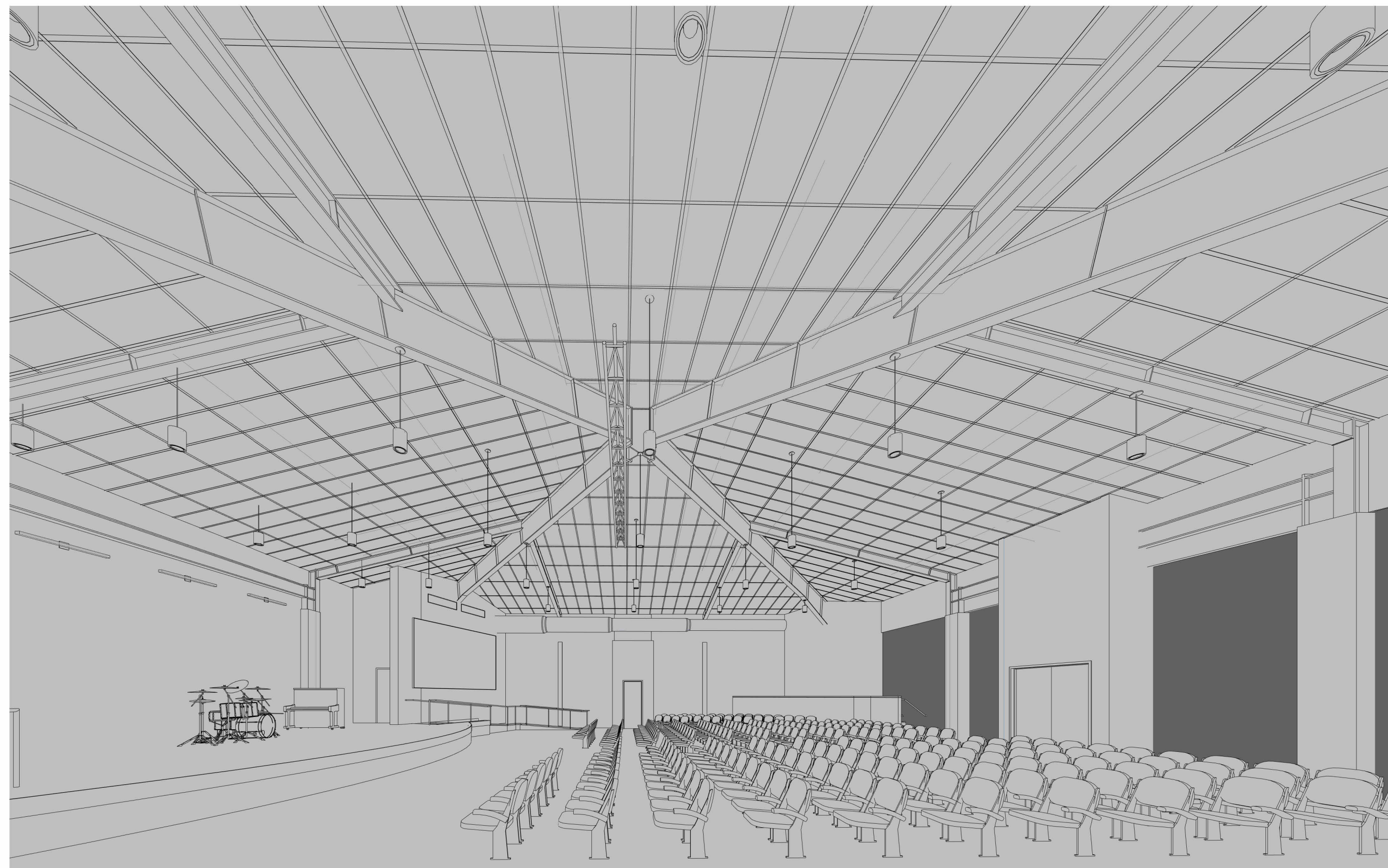
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INTERIOR VIEWS

Scale

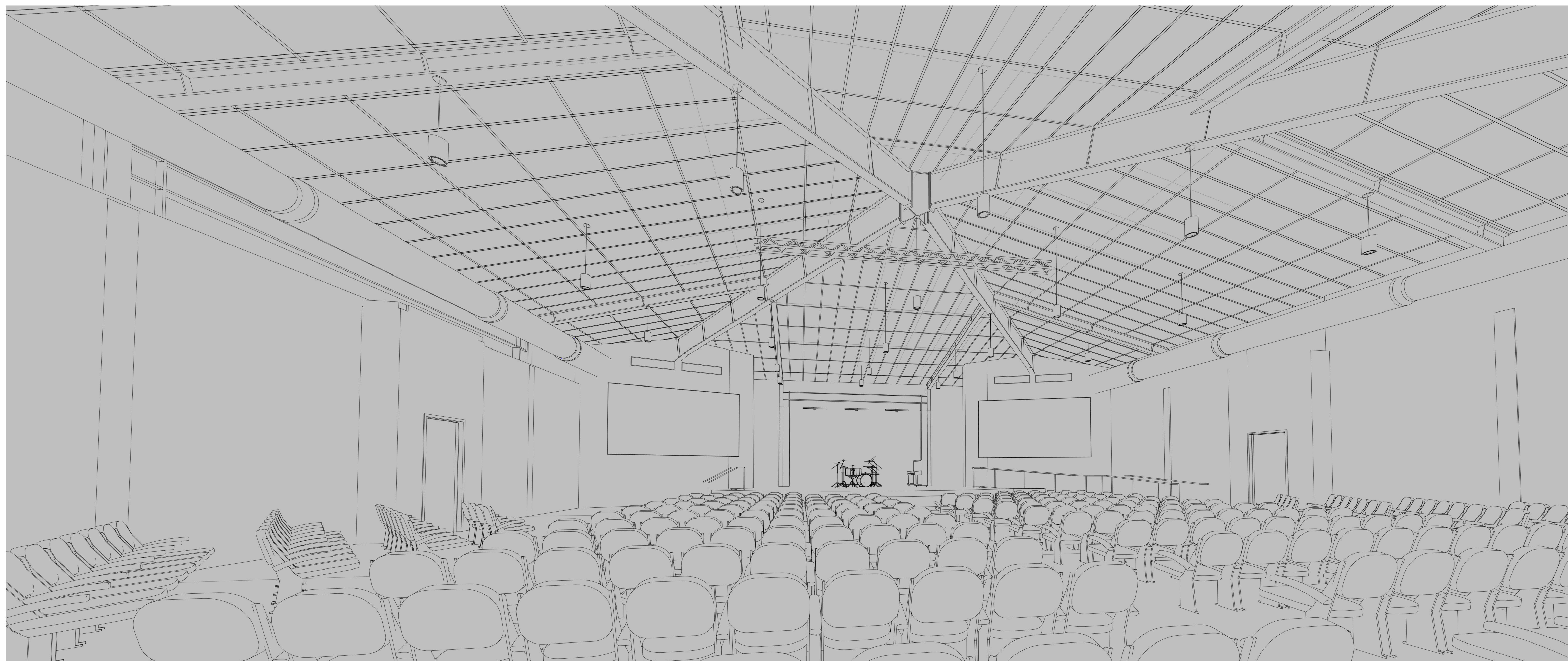
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03 SANCTUARY - PERSPECTIVE 3
SCALE:

01 SANCTUARY - PERSPECTIVE FROM STAGE
SCALE:

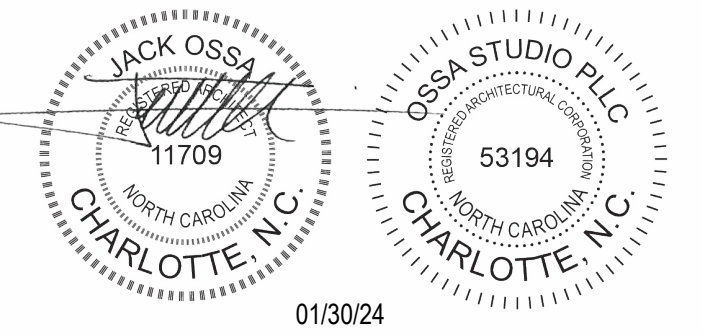


02 SANCTUARY - PERSPECTIVE 2
SCALE:



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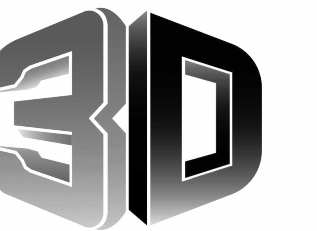
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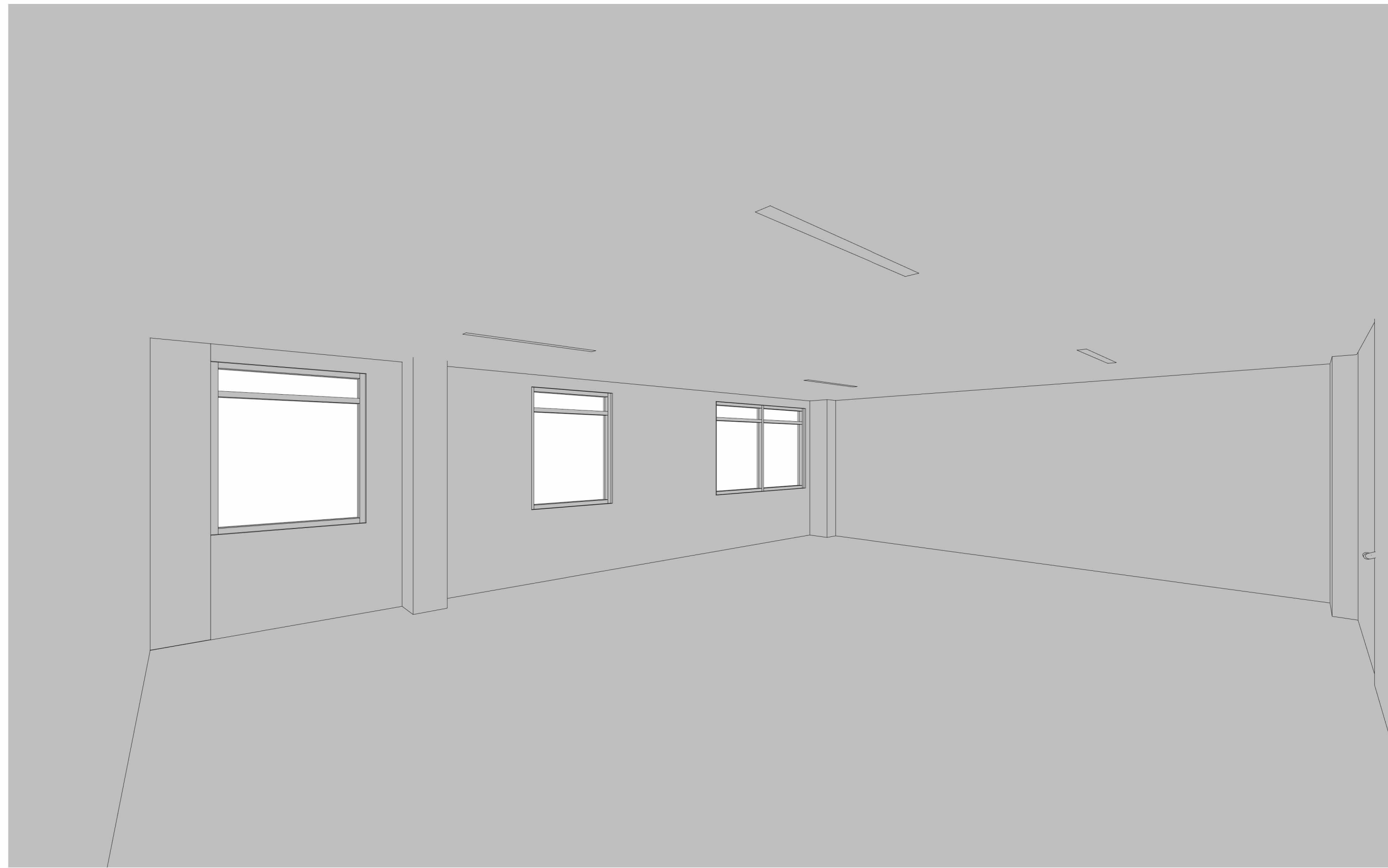
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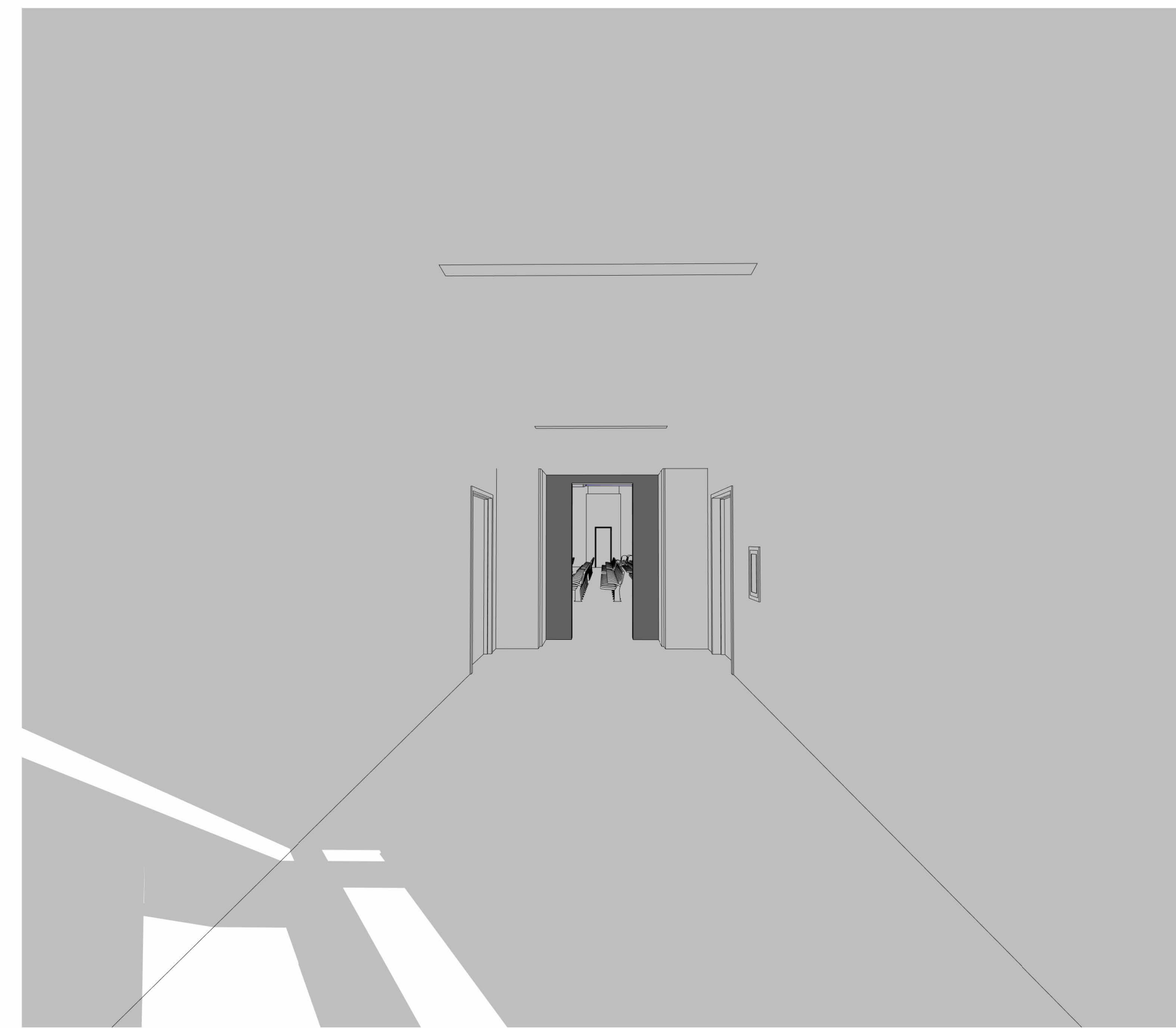
INTERIOR VIEWS

Scale

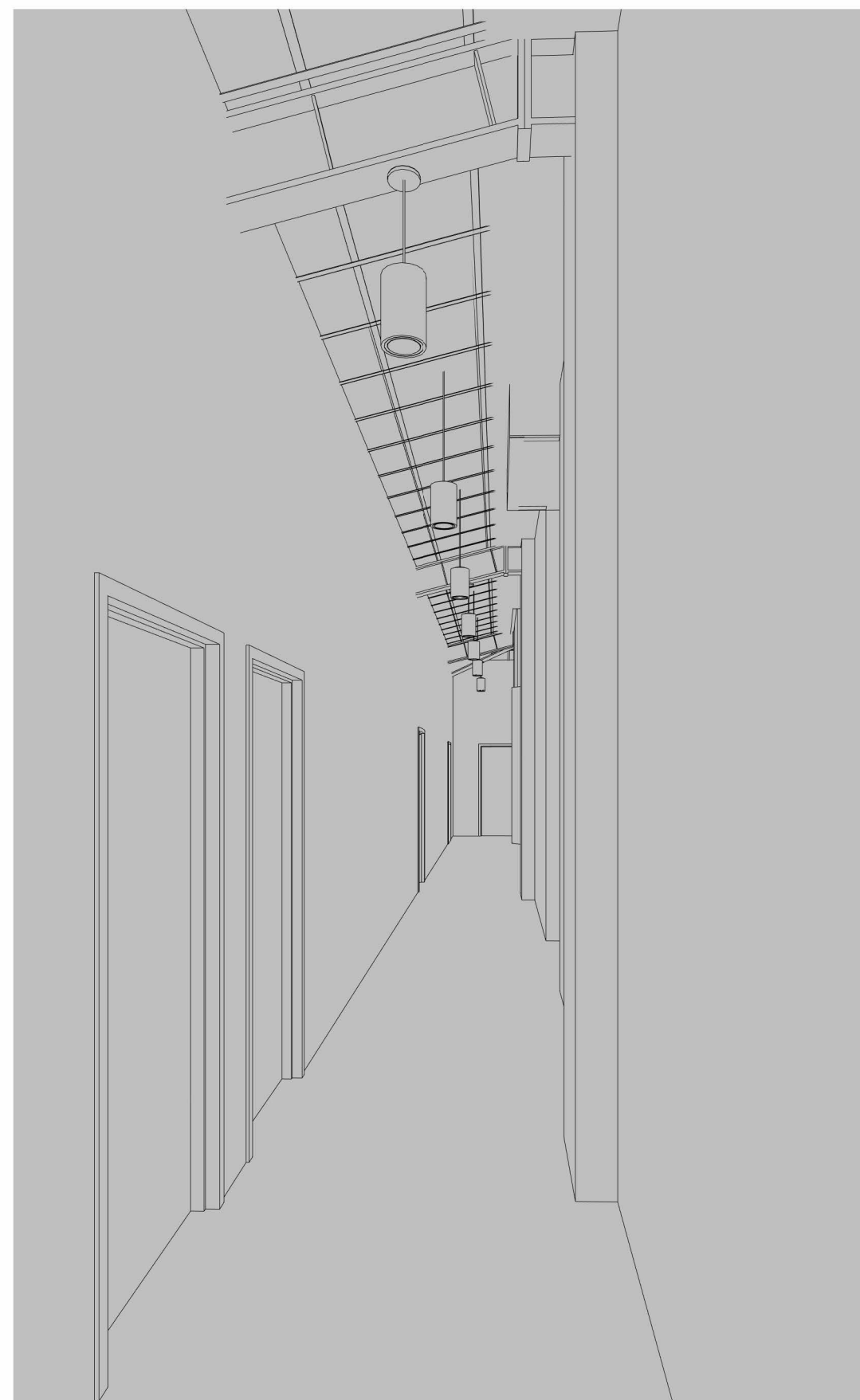
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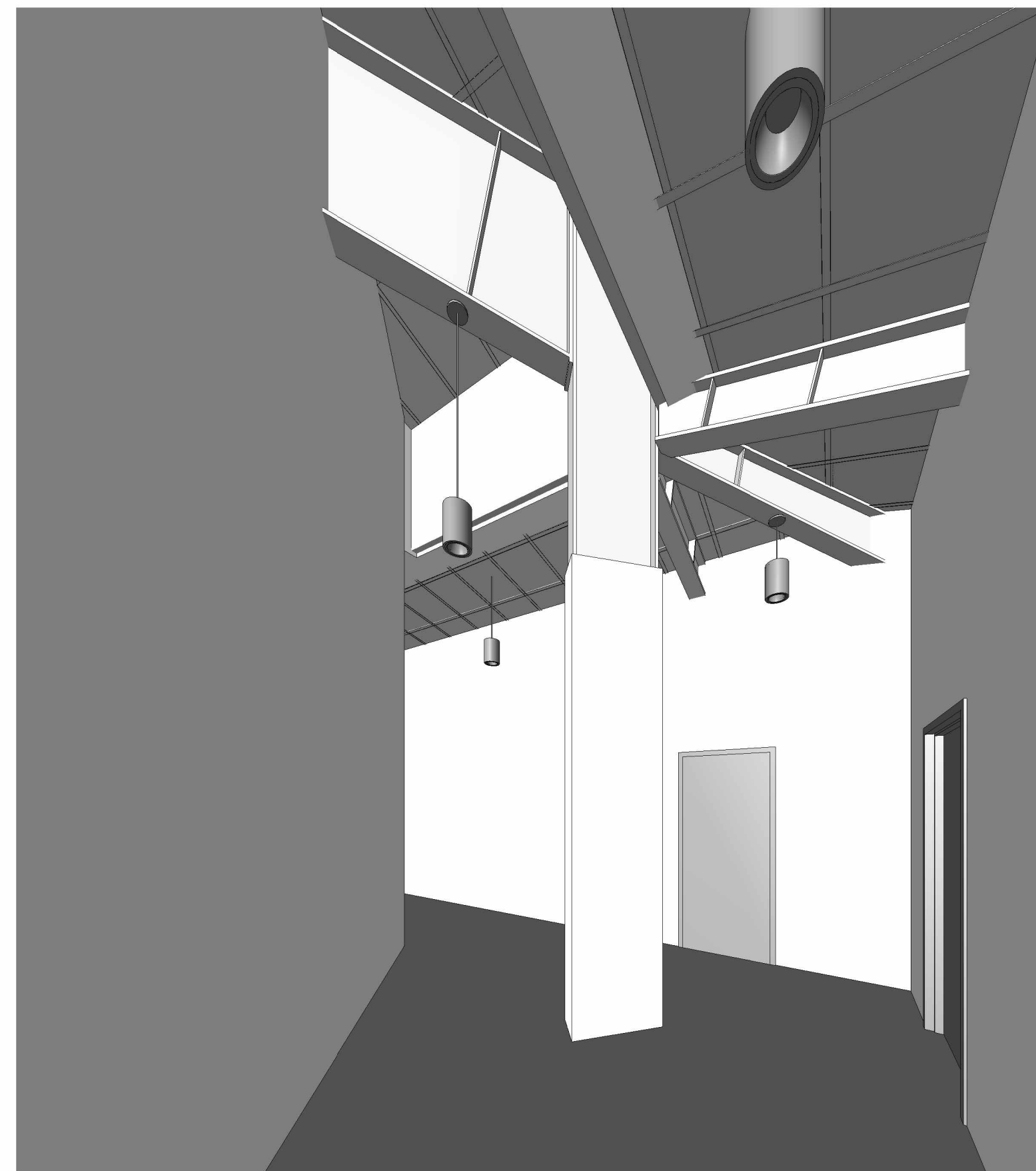
03 SHARED OFFICE - PERSPECTIVE VIEW
SCALE:



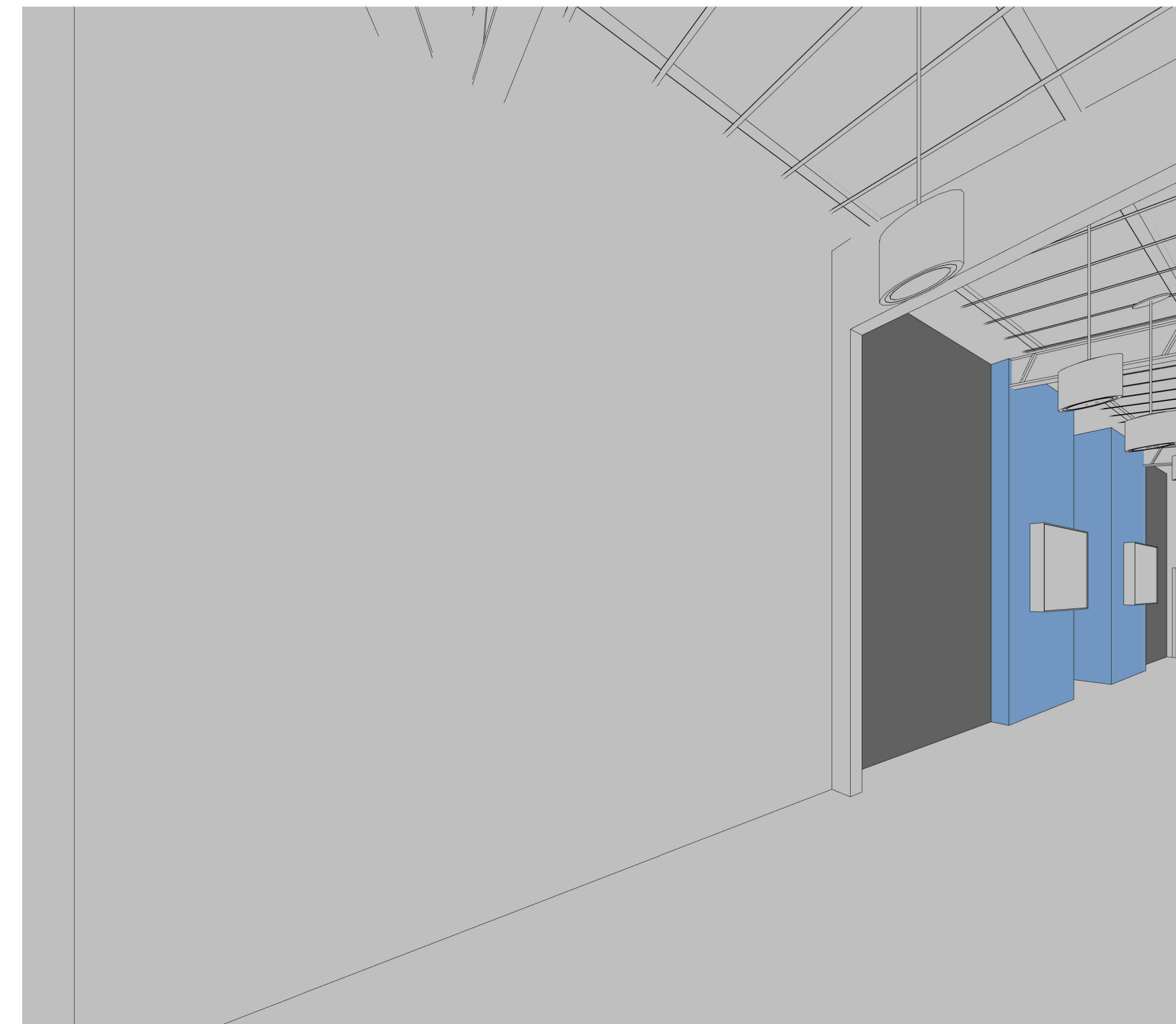
01 LOBBY - PERSPECTIVE AT SANCTUARY ENTRY
SCALE:



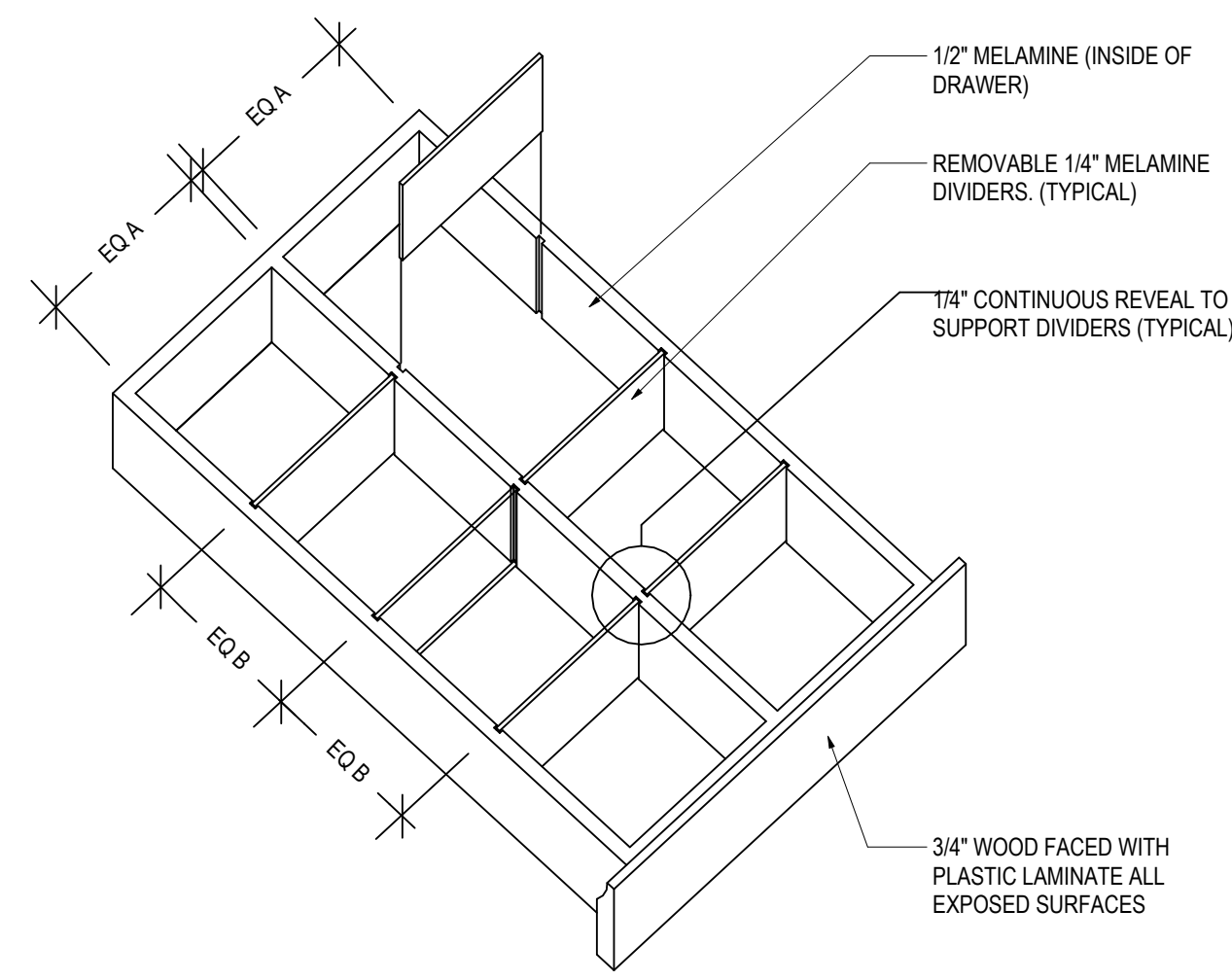
05 CHILD CARE CORRIDOR - PERSPECTIVE
SCALE:



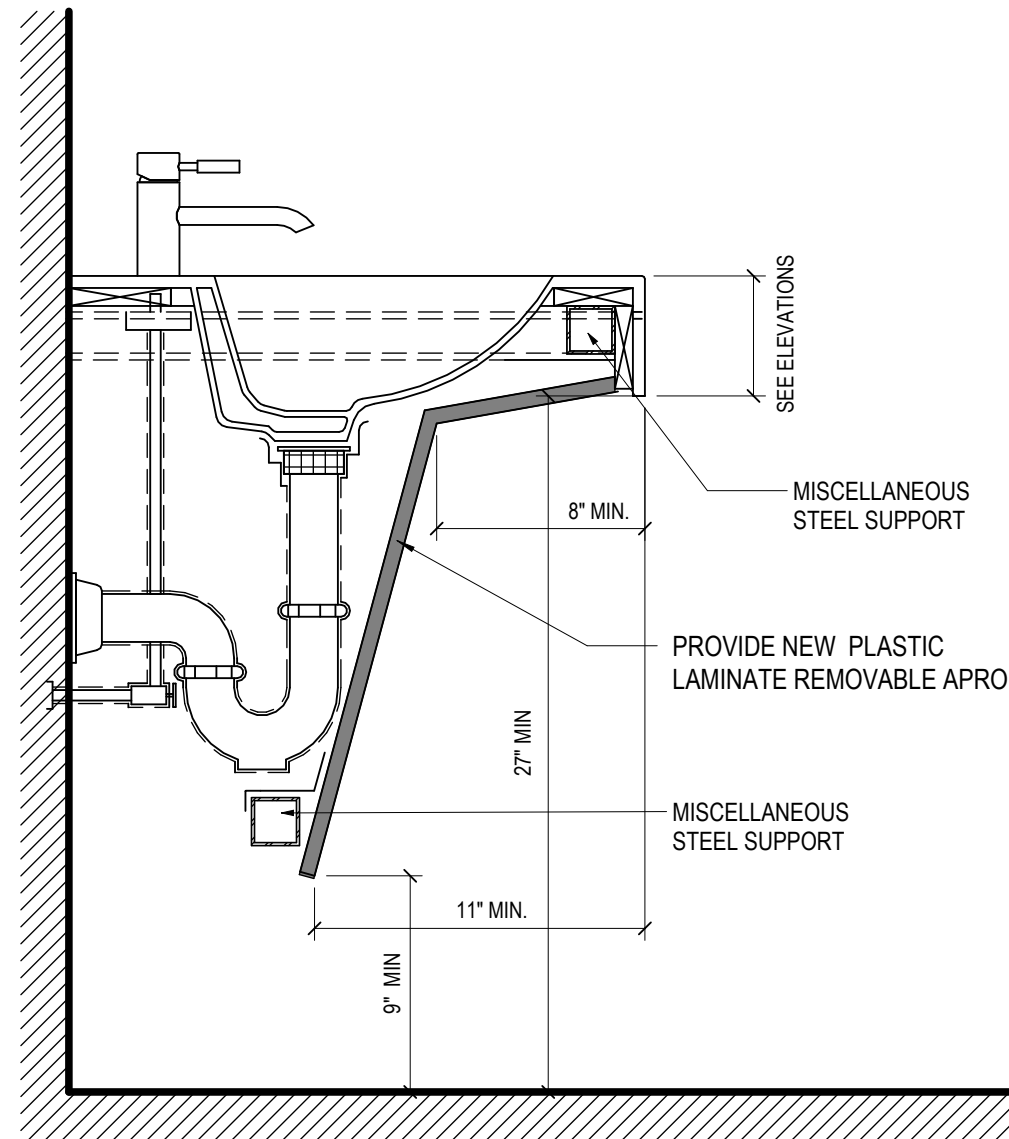
04 CHILD CARE CORRIDOR - PERSPECTIVE AT NURSERY ENTRY
SCALE:



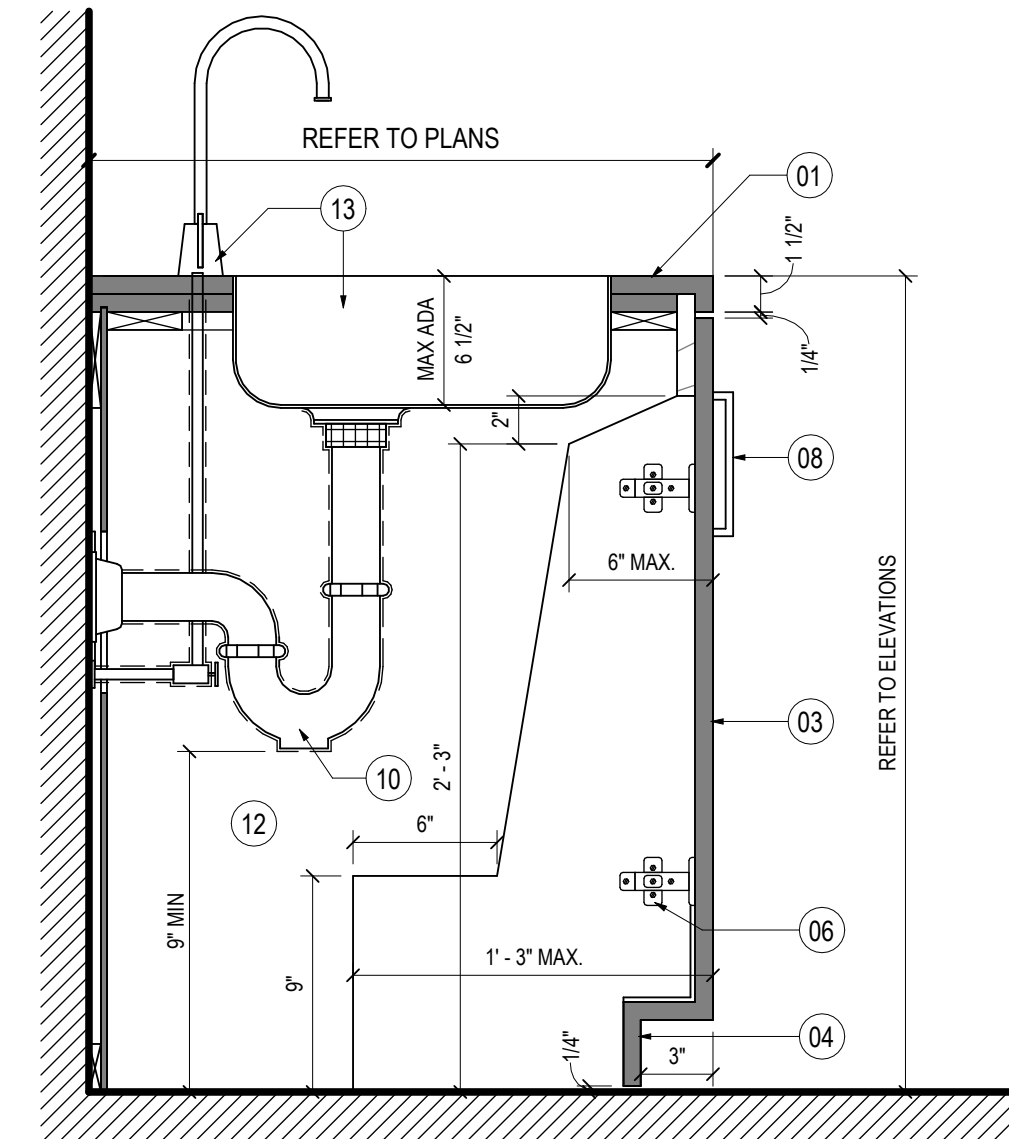
02 OFFICE CORRIDOR - PERSPECTIVE AT CORNER
SCALE:



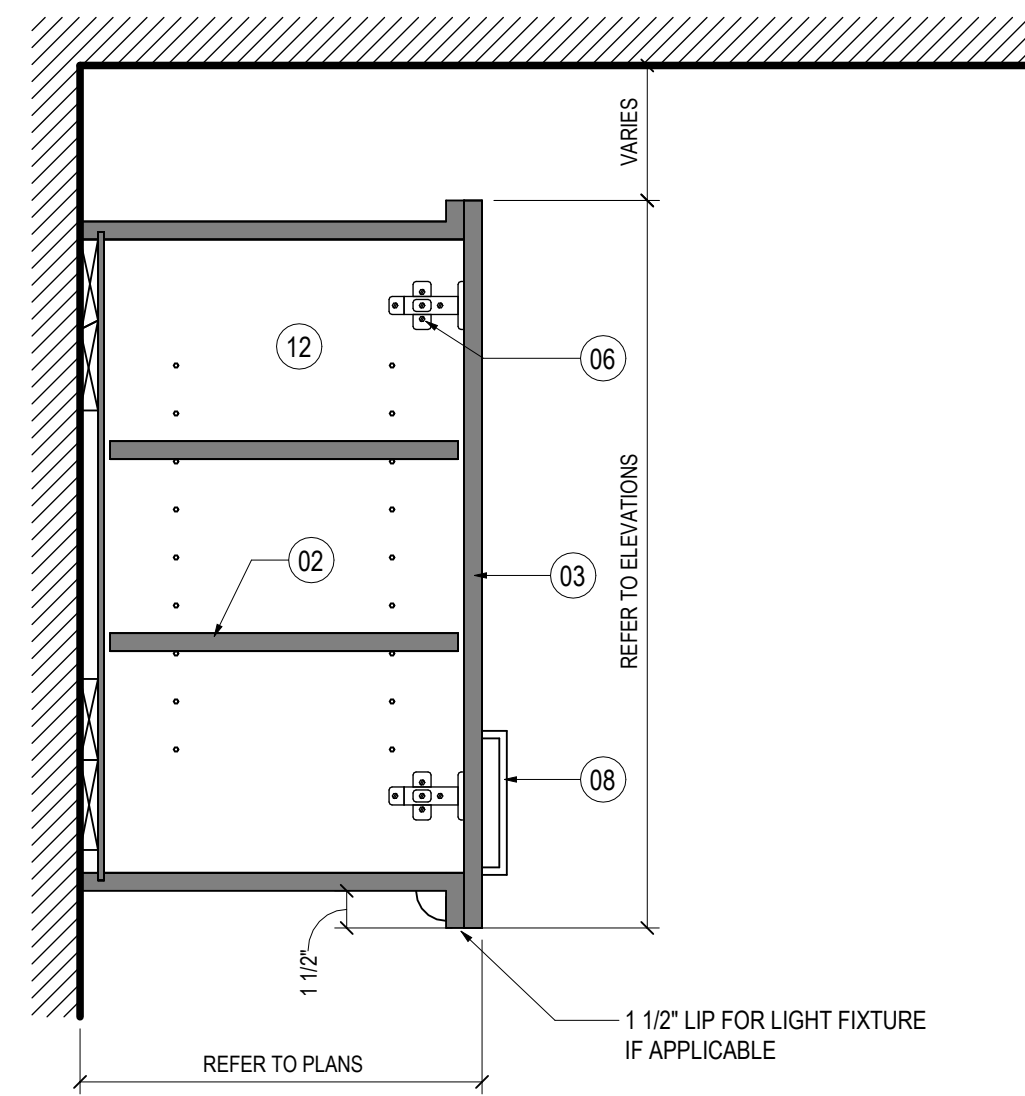
08 CONDIMENT DRAWER DIVIDERS
SCALE: 1 1/2" = 1'-0"



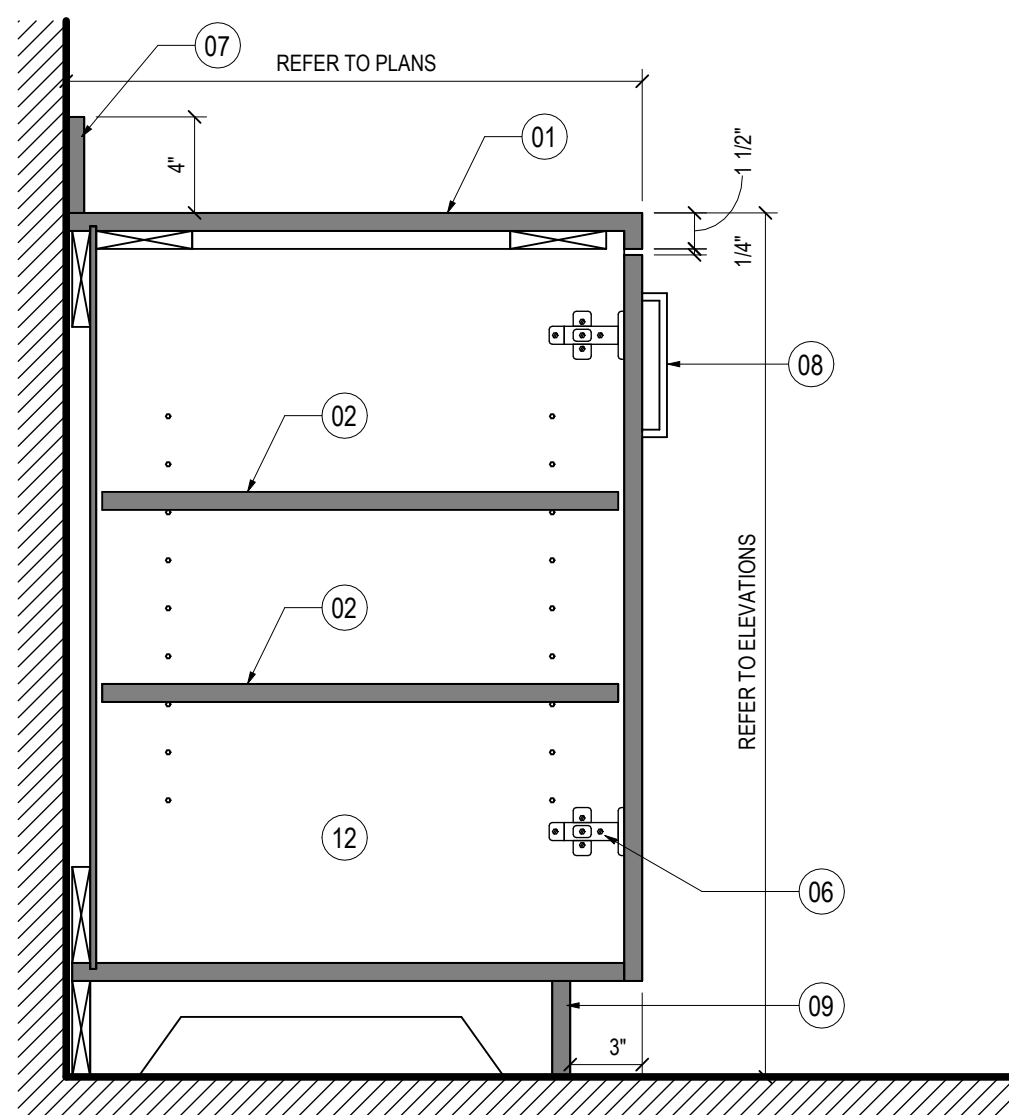
05 RESTROOM SINK
SCALE: 1 1/2" = 1'-0"



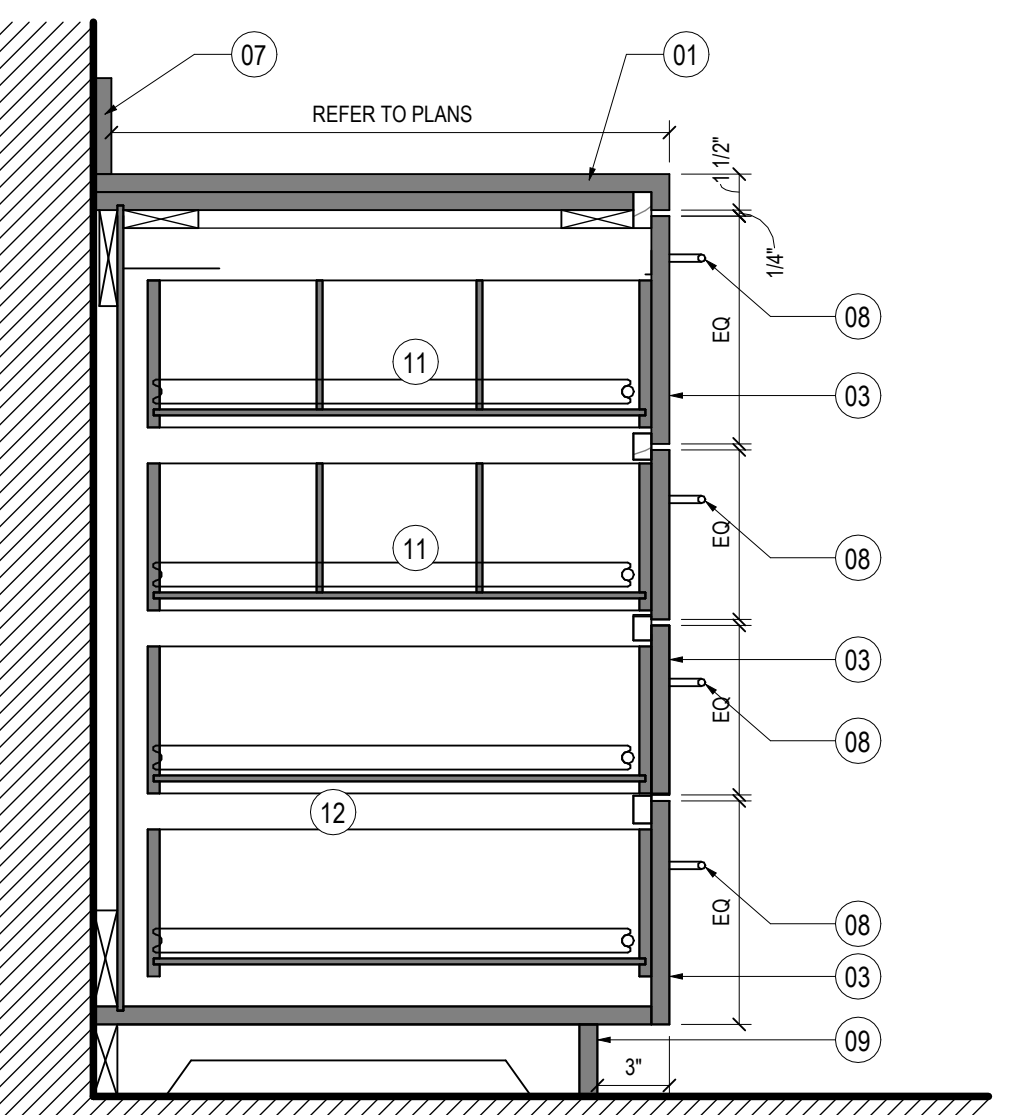
01 CABINET WITH SINK
SCALE: 1 1/2" = 1'-0"



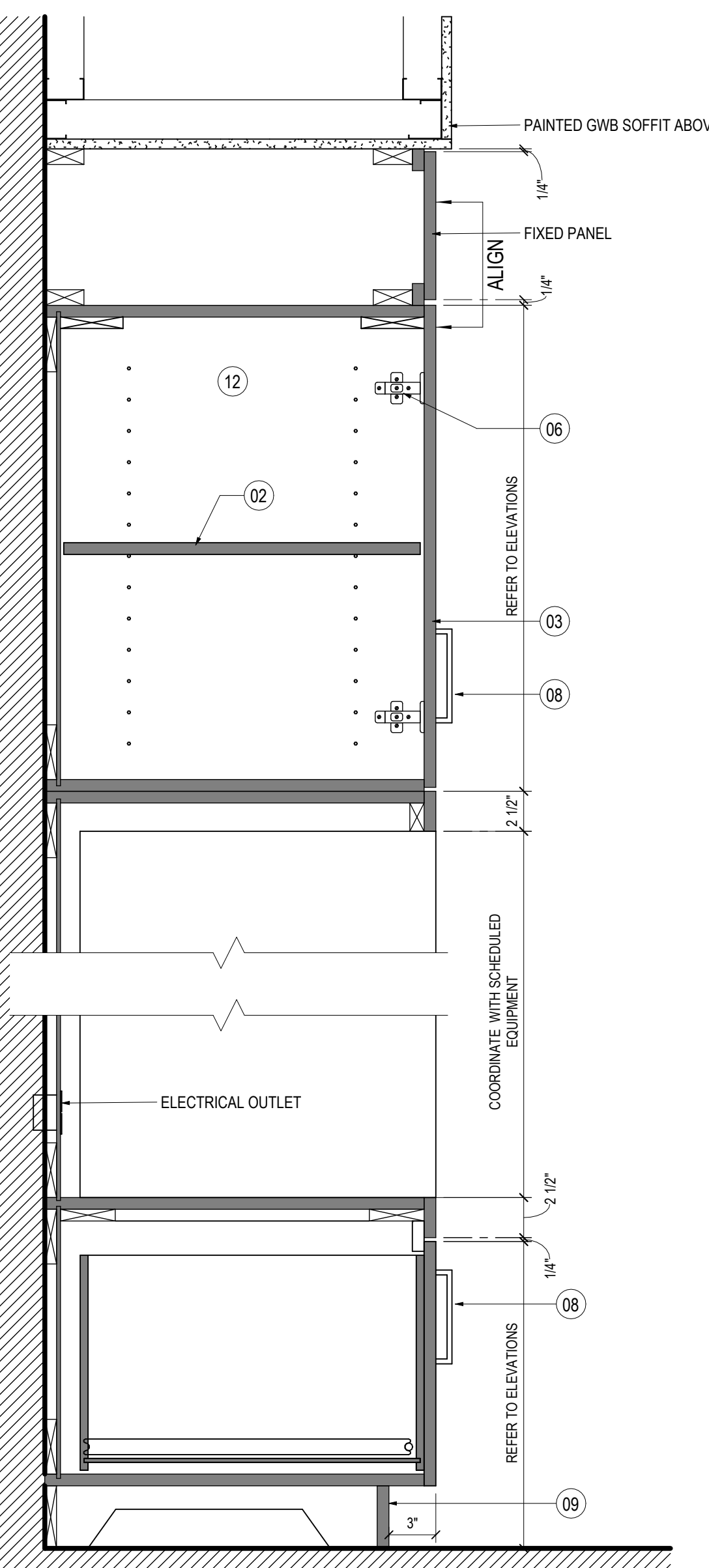
09 UPPER CABINET W/ DOOR
SCALE: 1 1/2" = 1'-0"



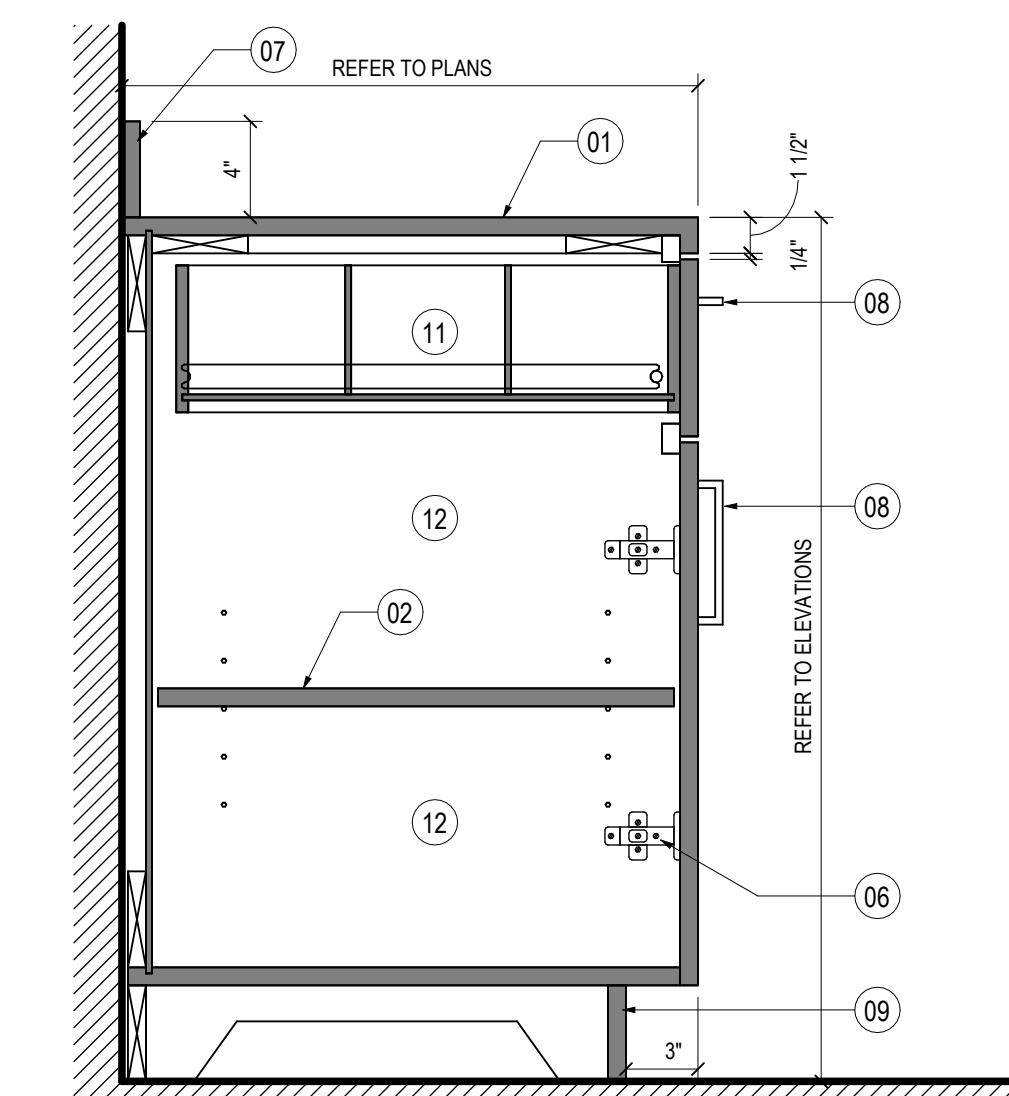
06 COUNTERTOP WITH ONE DOOR
SCALE: 1 1/2" = 1'-0"



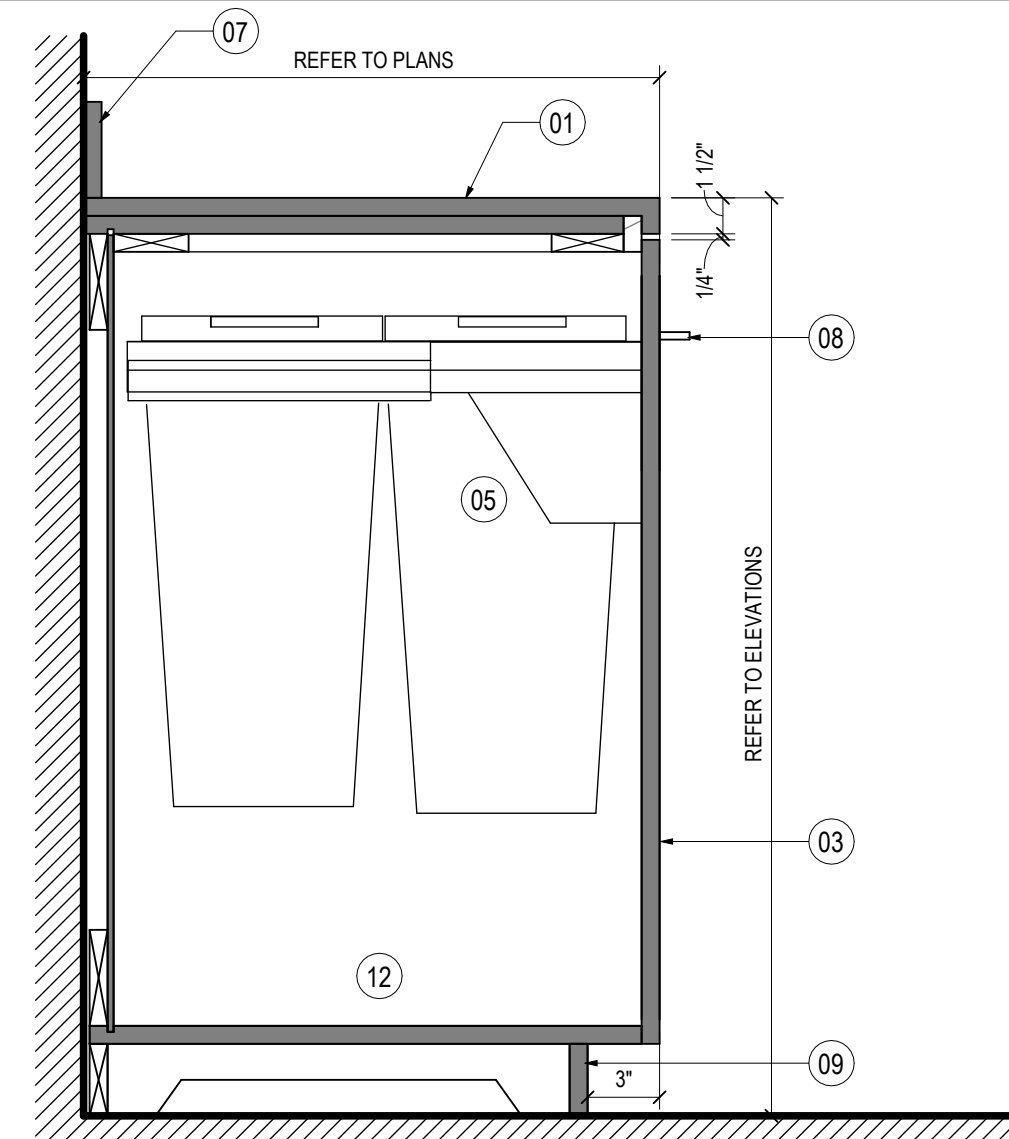
02 BREAKROOM CABINET W/ DRAWERS
SCALE: 1 1/2" = 1'-0"



07 MICROWAVE OVEN TALL CABINET
SCALE: 1 1/2" = 1'-0"



03 COUNTERTOP WITH ONE DRAWER
SCALE: 1 1/2" = 1'-0"



04 PULL-OUT TRASH CABINET
SCALE: 1 1/2" = 1'-0"

SHEET NOTES

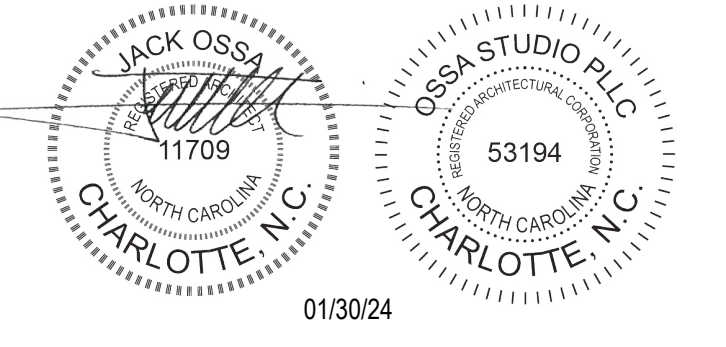
- 01 COUNTERTOP AS SCHEDULED - SEE INTERIOR ELEVATIONS
- 02 ADJUSTABLE WHITE MELAMINE SHELVING
- 03 FRONT PANEL AS SCHEDULED
- 04 INTEGRAL TOE KICK - NOTCH AS REQUIRED TO ALLOW DOORS TO SWING OPEN
- 05 INTEGRATED DOUBLE WASTE BIN SYSTEM - HAFELE #50274.252 WITH OVERTRAVEL SLIDES
- 06 CONCEALED EUROPEAN HINGES - TYP.
- 07 BACKSPASH - SEE INTERIOR ELEVATIONS IF REQUIRED
- 08 DOOR PULL - BERENSON - CONTEMPORARY ADVANTAGE ONE #9012-4BPN-P
- 09 SCRIBE STRIP - BLACK PLASTIC LAMINATE - TYP.
- 10 PIPE INSULATION
- 11 REMOVABLE DRAWER DIVIDERS
- 12 WHITE MELAMINE INTERIOR SURFACE - TYP.
- 13 SINK AND FAUCET AS SCHEDULED
- 14 FILE CABINET DRAWER WITH HANGING RAILS
- 15 STAINLESS STEEL GROMET TRASH RING

MILLWORK NOTES

- A ANY SHELF EXCEEDING 36" IN WIDTH TO BE 1" THICK.
- B ALL DOOR AND DRAWER FRONTS TO BE 3/4" PARTICLE BOARD WITH PLASTIC LAMINATE (OR WOOD VENEER) ON 2 SIDES AND PLASTIC LAMINATE (OR WOOD VENEER) ON ALL 4 EDGES.
- C DOOR HINGES TO BE EQUAL TO BLUM 90A8530 & 91A8530 170 DEGREE HINGES, TYP. - USE THREE HINGES ON DOORS OVER 42" HIGH.
- D DRAWERS TO BE CONSTRUCTED USING 1/2" PARTICLE BOARD SIDES, FRONT, AND REAR PANELS WITH 1/4" LUALUN PLYWOOD BOTTOMS UNO. FRONT PANEL TO BE 3/4" PARTICLE BOARD.
- E DRAWERS TO BE ON SLIDES EQUAL TO BLUM 430E SERIES W/ FULL EXTENSION AND SOFT CLOSE.
- F ALL EXPOSED SURFACES OF CABINETS TO BE COVERED IN PLASTIC LAMINATE (OR WOOD VENEER) UNLESS NOTED OTHERWISE. CABINET INTERIORS TO BE MELAMINE. COLOR AS NOTED, COVERED PARTICLE BOARD UNLESS NOTED OTHERWISE.
- G ADJUSTABLE SHELF SUPPORT EQUAL TO BLUM NO. 34 0040
- H ALL PLASTIC LAMINATE MILLWORK COUNTERTOPS AND BACKSPASHES AT WET LOCATIONS TO BE PLASTIC LAMINATE OVER 3/4" THICK MARINE GRADE PLYWOOD, TYP.
- I HARDWARE TO INCLUDE PULLS, CONCEALED HINGES, HEAVY DUTY FULL EXTENSION DRAWER SLIDES, FULLY RECESSED CAM-TYPE LOCKS AND DRILLED HOLE AND CLIP SHELF SUPPORTS.
- J PROVIDE ADEQUATE SUPPORT FOR ALL COUNTERTOPS, EVEN WHEN NOT SPECIFICALLY SHOWN IN ELEVATIONS. ALL EXPOSED SUPPORTS SHALL MATCH FINISHED MATERIAL.
- K MILLWORK MATERIAL QUALITY AND CONSTRUCTION TO BE IN ACCORDANCE WITH AWI STANDARDS FOR PREMIUM GRADE ASSEMBLY AND INSTALLATION.
- L INSTALLED MILLWORK SHALL BE SCRIBED TO ADJACENT FINISHED SURFACES. FILLER PANELS SHALL NOT BE LARGER THAN 1'.



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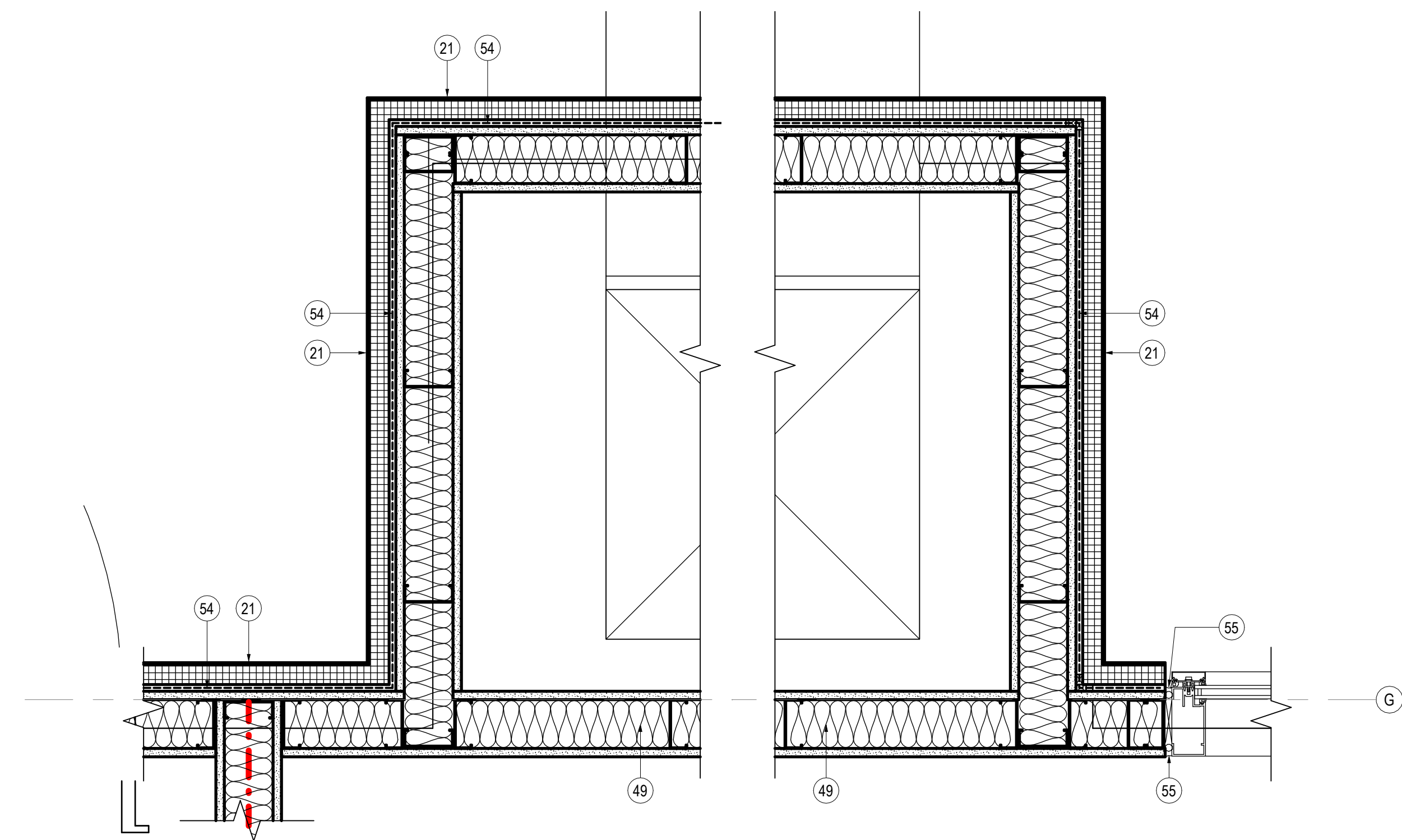
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MILLWORK DETAILS

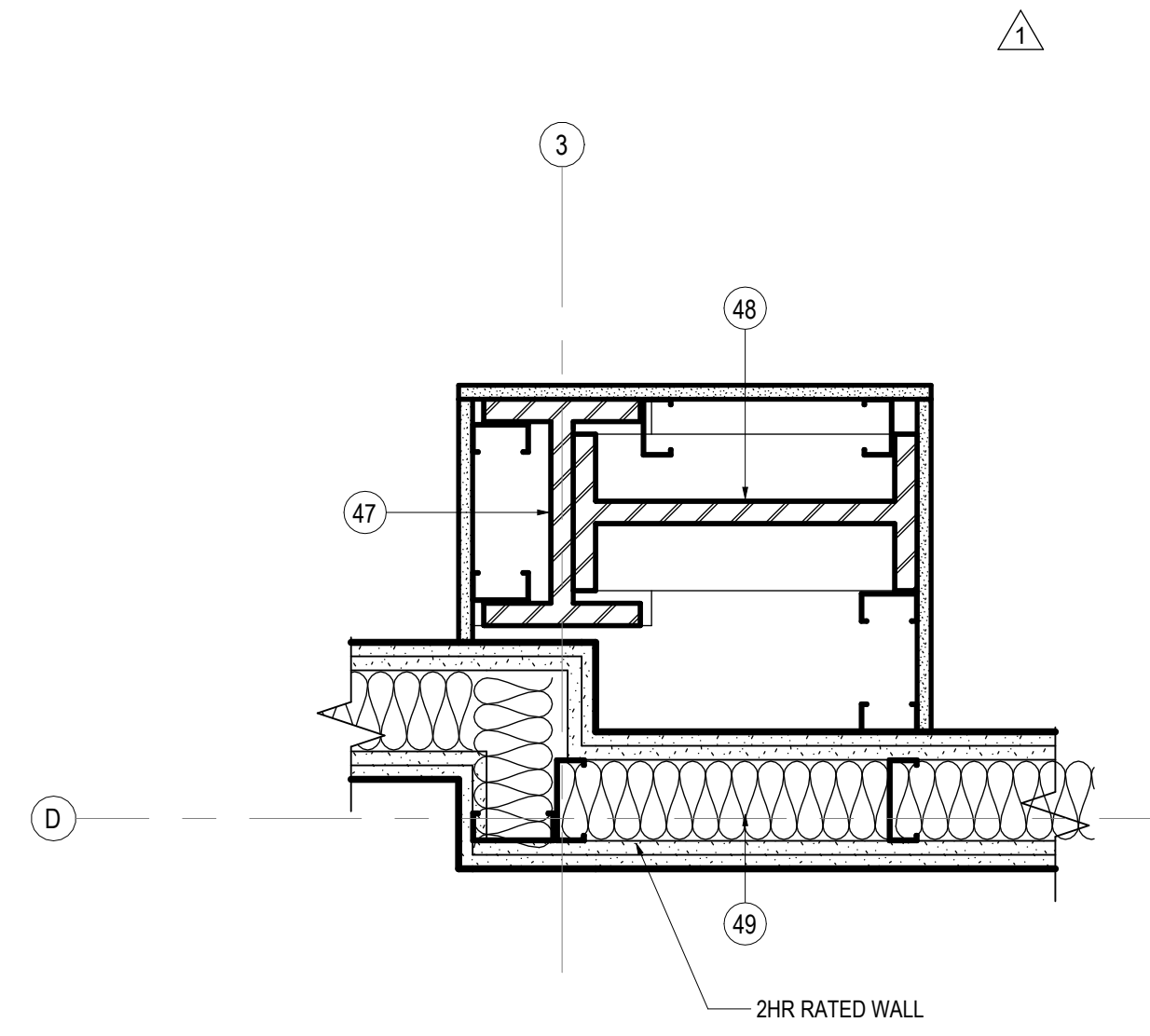
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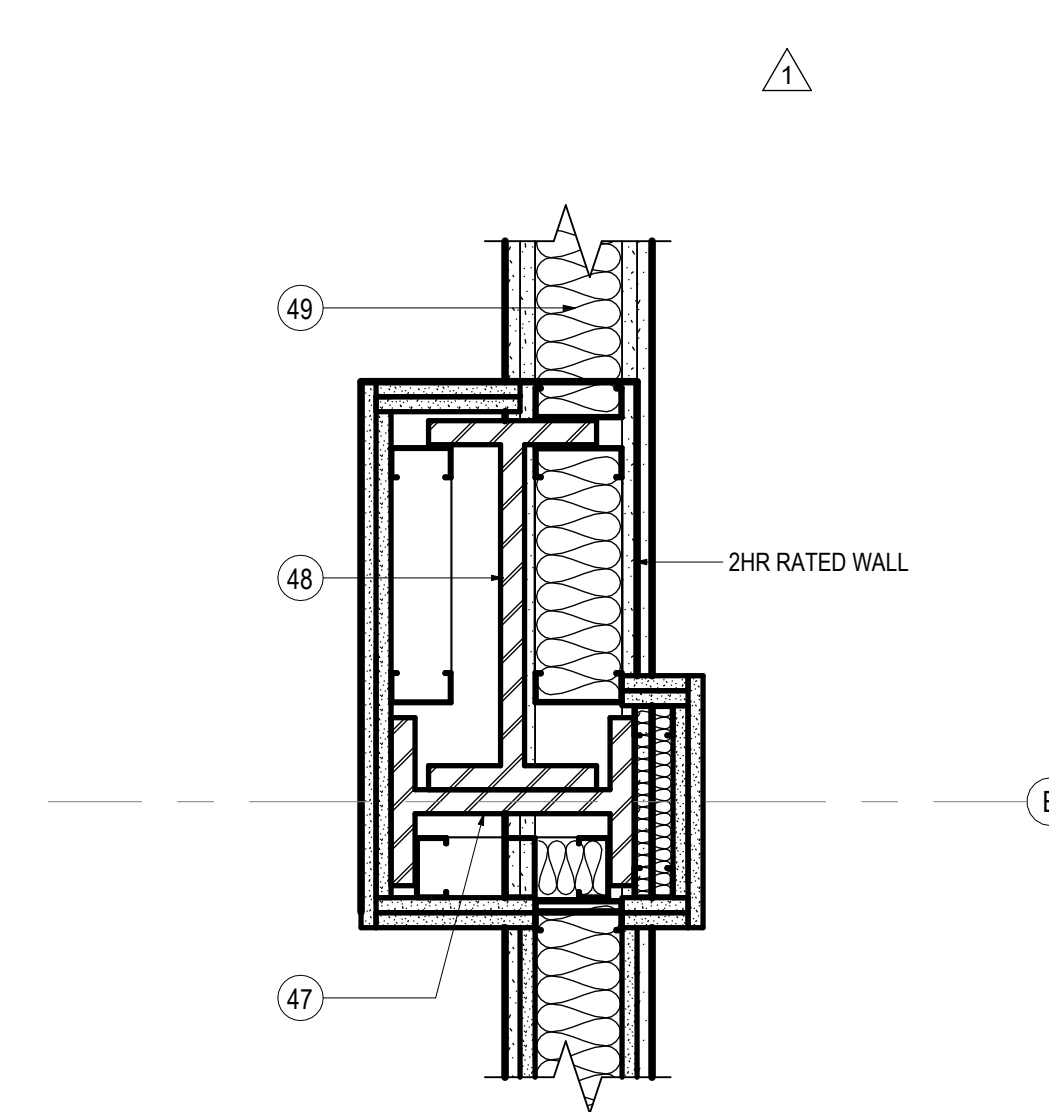
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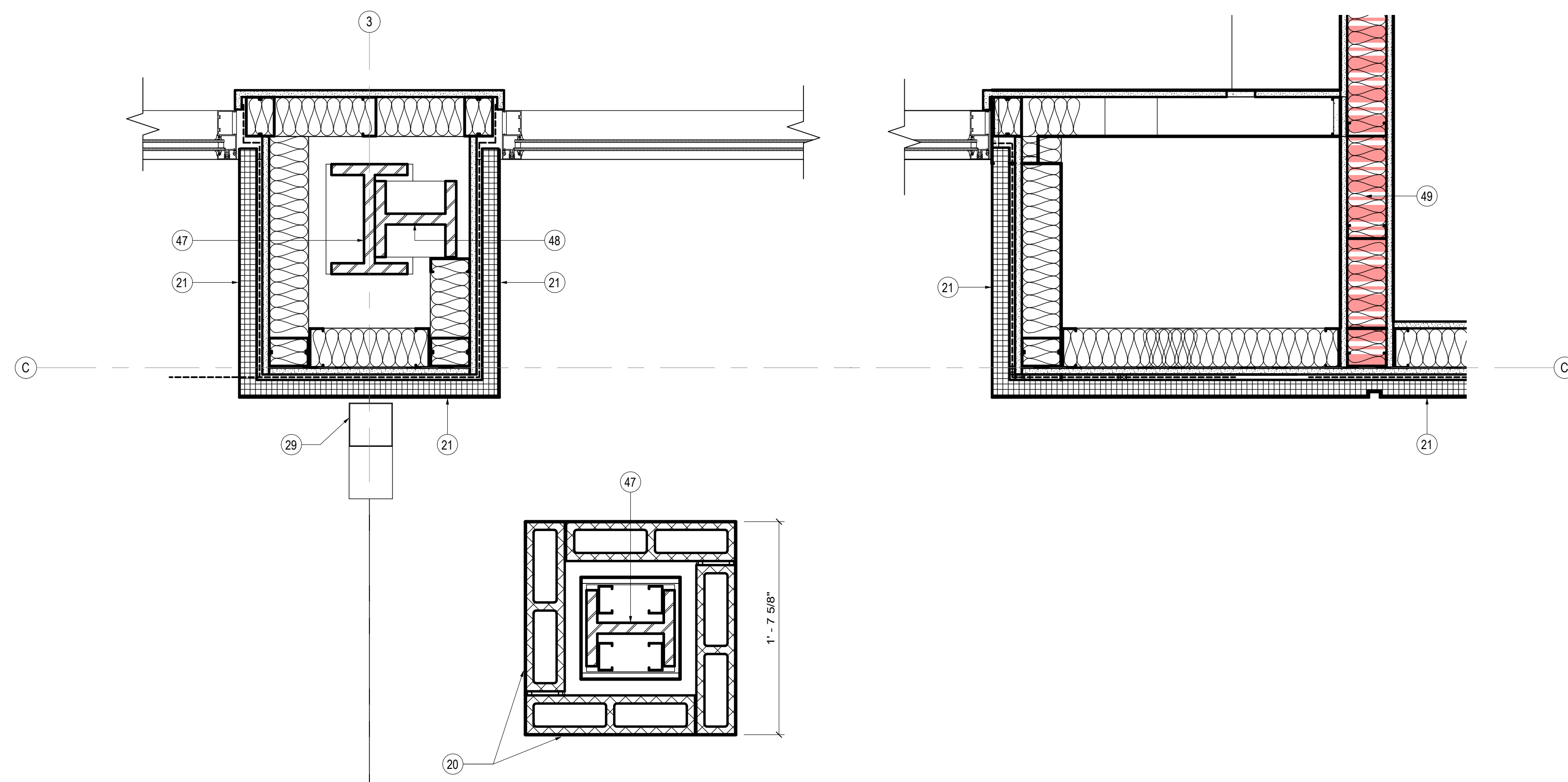
03 HVAC SHAFT
SCALE: 1 1/2" = 1'-0"



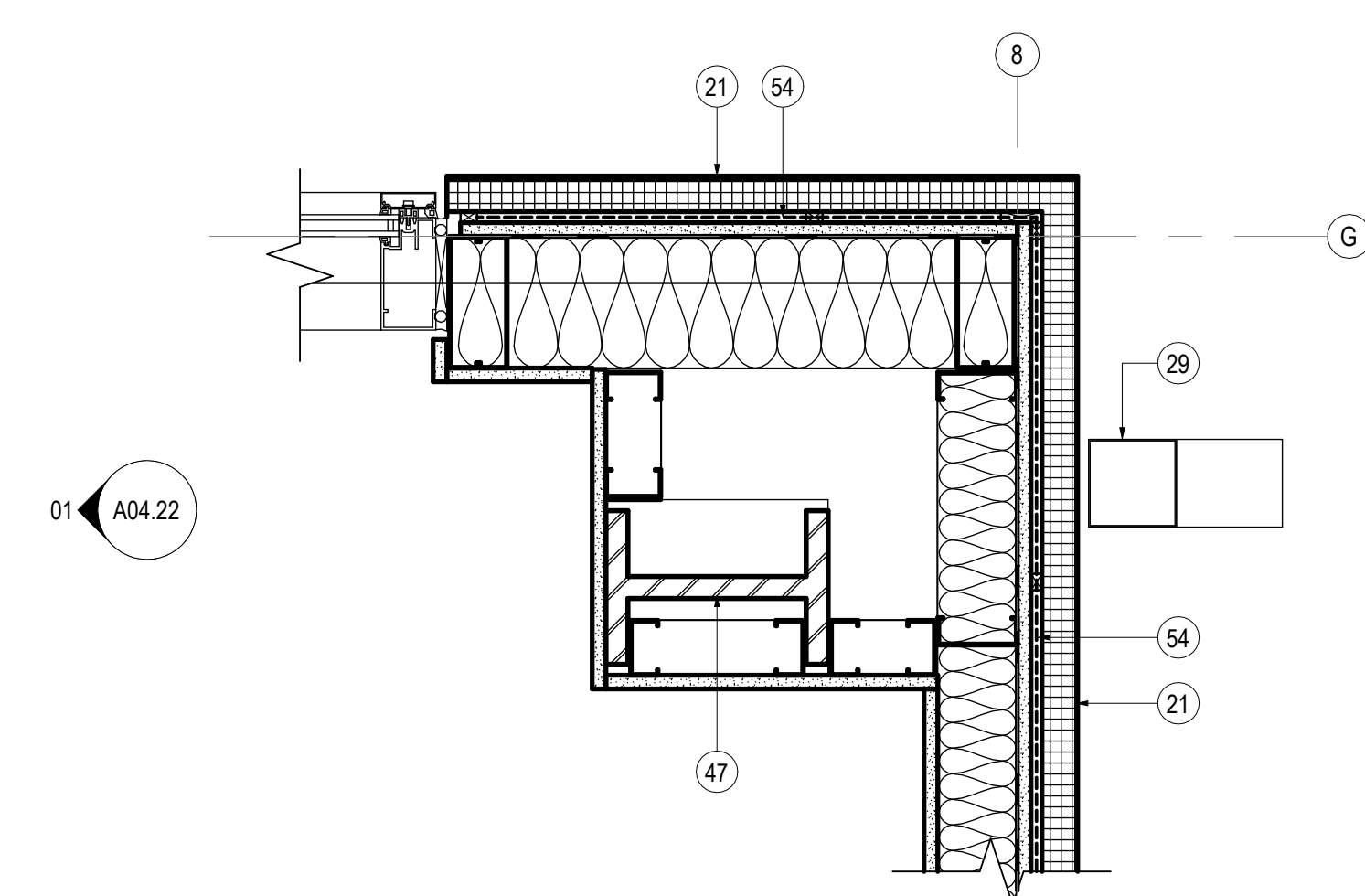
02 COLUMN ENCLOSURE
SCALE: 1 1/2" = 1'-0"



01 COLUMN ENCLOSURE
SCALE: 1 1/2" = 1'-0"



10 FRONT ENTRY AT THE NARTHEX
SCALE: 1 1/2" = 1'-0"



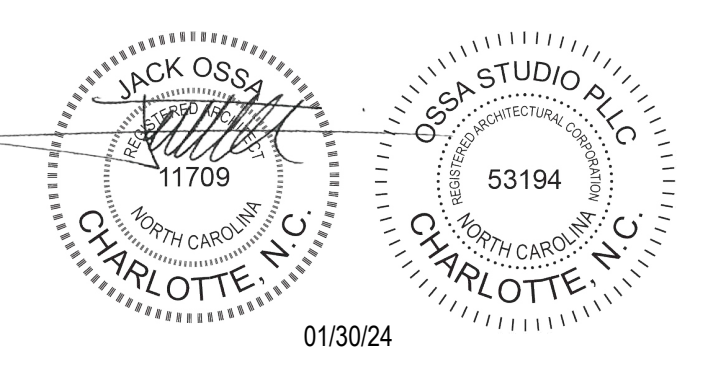
08 COLUMN ENCLOSURE
SCALE: 1 1/2" = 1'-0"

SHEET NOTES

- 01 STRUCT. STL. - PAINT BLACK WHERE EXPOSED
- 02 GWB AND MDF STAGE APRON - PAINT BLACK
- 03 ELEVATED FLOOR w/ LVT FINISH ON 1/4" T. TEMPERED MASONITE, 1/2" HOMASOTE, AND 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 04 SLOPED GWB "CLOUD" AT UNDERSIDE OF STL. STRUCT.
- 07 MTL. PANEL CEILING SYSTEM MTL. BLDG. MANUF. LIGHTING TRUSS (SEE STRUCT.)
- 08 RAMP w/ LVT FINISH ON (2) LAYERS 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 09 STAIR w/ LVT FINISH ON (2) LAYERS 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
- 11 GWB CONTROL JOINT
- 12 EXPOSED ROOF INSULATION
- 13 MTL. Z PURLIN (TYP.)
- 14 SUSPENDED PROJECTION SCREEN
- 15 LED CYLINDER PENDANT LIGHT FIXTURE (TYP.) (SEE ELEC.)
- 16 LED WALL SCONCE LIGHT FIXTURE (TYP.) (SEE ELEC.)
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- 21 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 22 REVEAL (TYP.)
- 23 8"x16"x4" CMU (PROVIDE TIES PER MANUF. REQS.) W/ 1-1/2" AIR SPACE, 2" RIGID INSUL., AND 5/8" SHEATHING ON 3-5/8" MTL. STUD FRAMING
- 24 STANDING SEAM MTL. ROOF (OWNER FURNISHED)
- 25 CONT. R-11 VINYL-FACED BLANKET INSUL. ON R-3 THERMAL SPACER BLOCKS (THERMAL SPACER BLOCKS TYP. AT EA. PURLIN)
- 26 R-19 FIBERGLASS BLANKET INSUL. BET. PURLINS (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 27 CONT. BLACK FIBER-REINFORCED VAPOR BARRIER MEMBRANE AT BOTTOM OF PURLINS
- 28 GUTTER AND FLASHING BY MTL. BLDG. MANUF.
- 29 DOWNSPOUTS BY MTL. BLDG. MANUF. (TYP.)
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- 36 PRE-FIN. COUNTER FLASHING
- 37 TIE-IN TRIM BY MTL. BLDG. MANUF.
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- 44 ALUM. DOOR AS SCHEDULED
- 45 DOOR THRESHOLD AS SCHEDULED - SET ON FULL BED OF MASTIC
- 46 TURNED-DOWN CONC. SLAB (SEE STRUCT.)
- 47 STRUCT. STL. COLUMN
- 48 STRUCT. STL. MOMENT FRAME - PAINT BLACK WHERE EXPOSED
- 49 SOUND ATTENUATION BLANKET (TYP.)
- 51 LINEAR SLOT RETURN (SEE MECH.)
- 52 MTL. SUPPORT BANDING - SPACE AS DIMENSIONED ON ENLARGED RCP (TYP.)
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- 69 EAVE TRIM, PANEL CAP TRIM, AND FLASHING BY MTL. BLDG. MANUF.
- 70 MTL. STUD BRACE (SEE STRUCT.)



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PROJECT TEAM

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704.266.6621

Mechanical, Electrical, Plumbing & Fire Protection
ENGINEERING
www.engineering.com
704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
1 05/8/24	PERMIT REVIEW COMMENTS

Project Name

3D
community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number
23024.00

Description
PLAN DETAILS

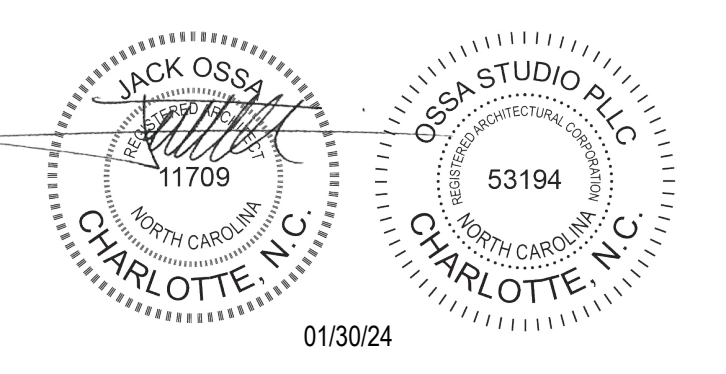
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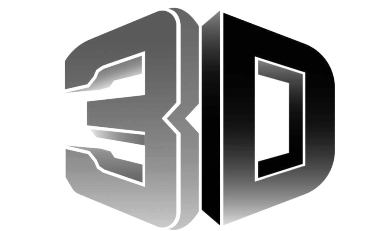
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Date	Description
01/30/24	FOR CONSTRUCTION

Project Name



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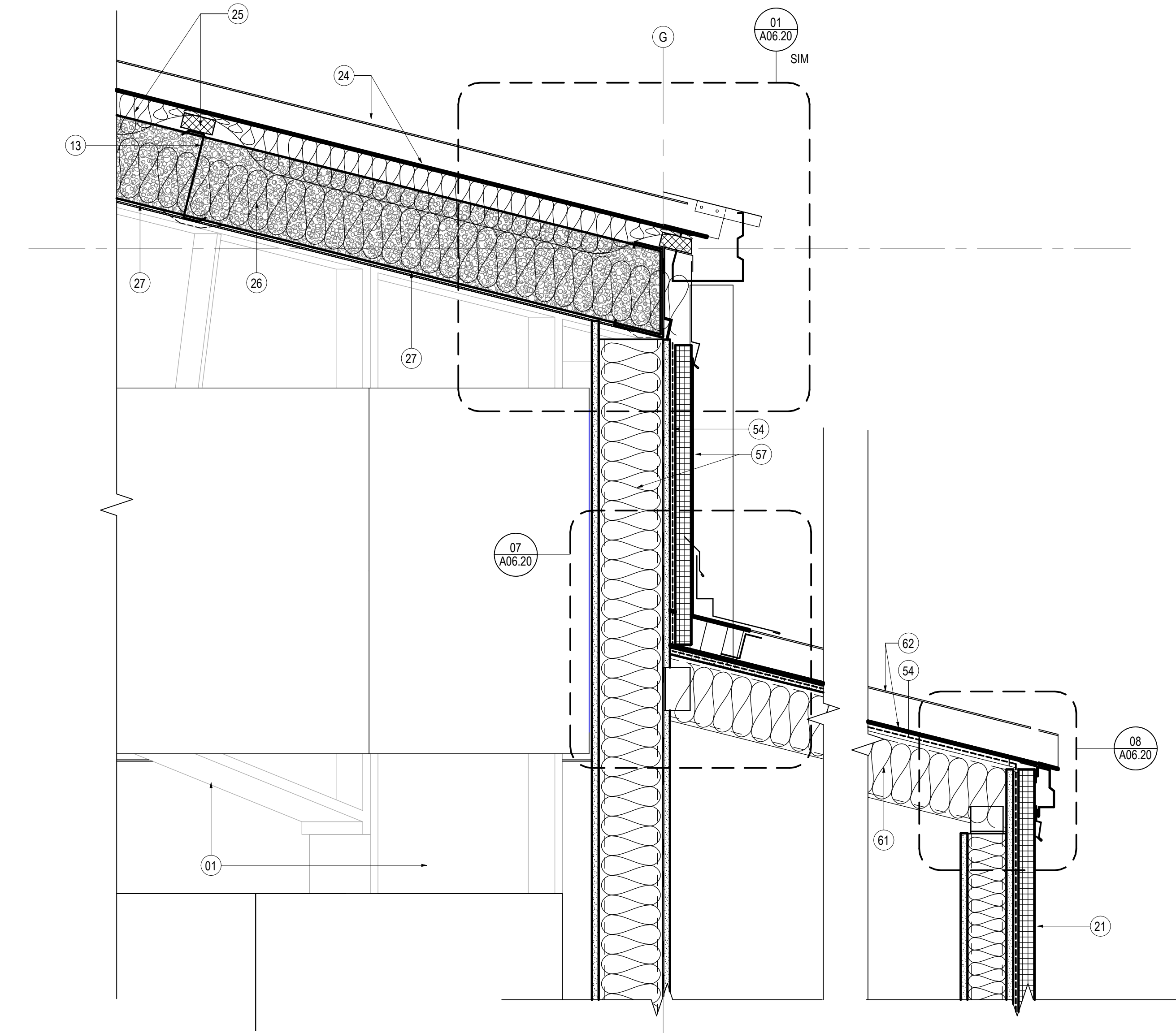
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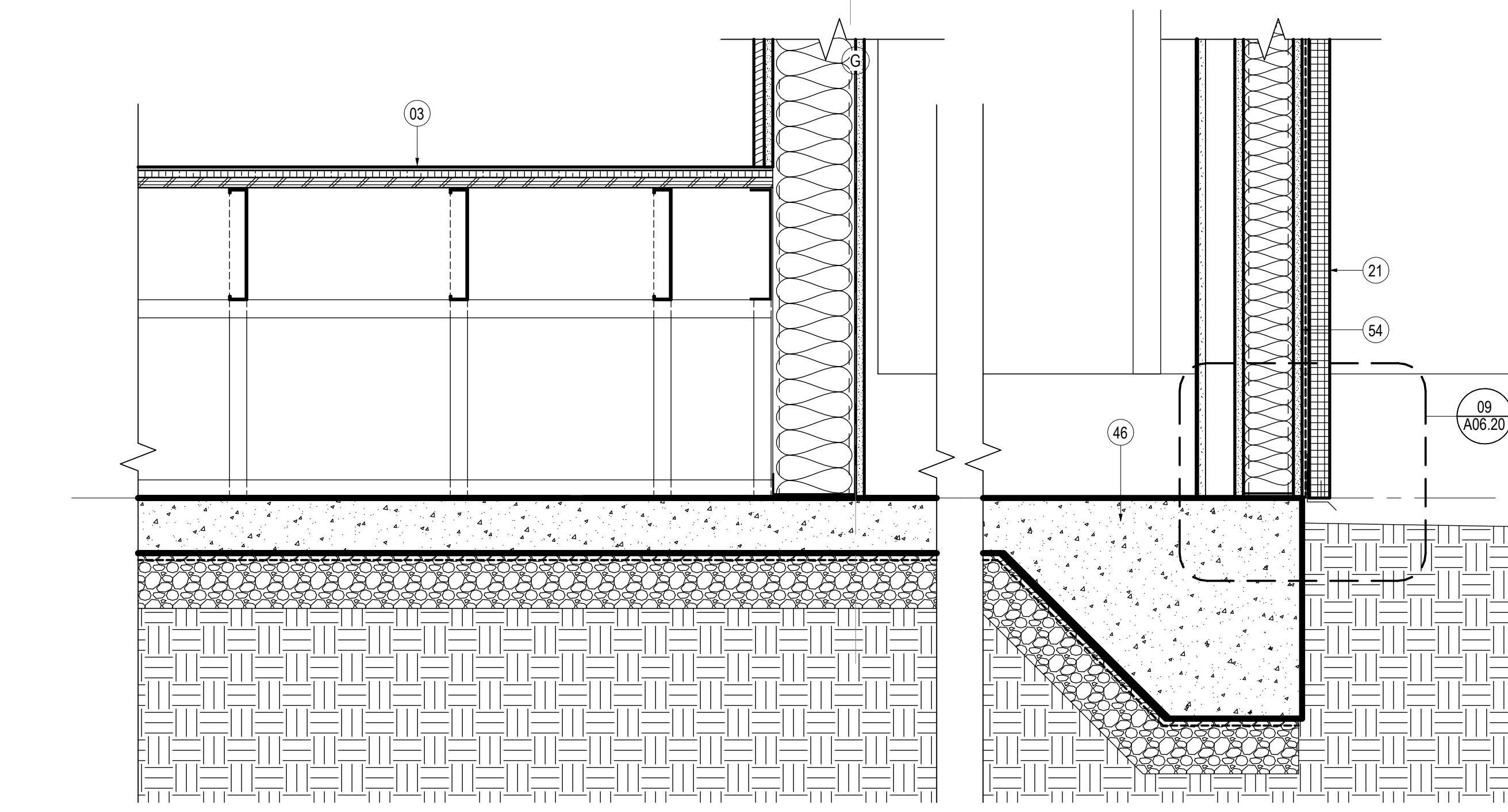
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- 03 ELEVATED FLOOR w/ LVT FINISH ON 1/4" T. TEMPERED MASONITE, 1/2" HOMASOTE, AND 3/4" FRP PLYWOOD ON MTL. STUD FRAMING (SEE STRUCT.)
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01 NORTH WALL AT STAGE - Callout 1
SCALE: 1 1/2" = 1'-0"

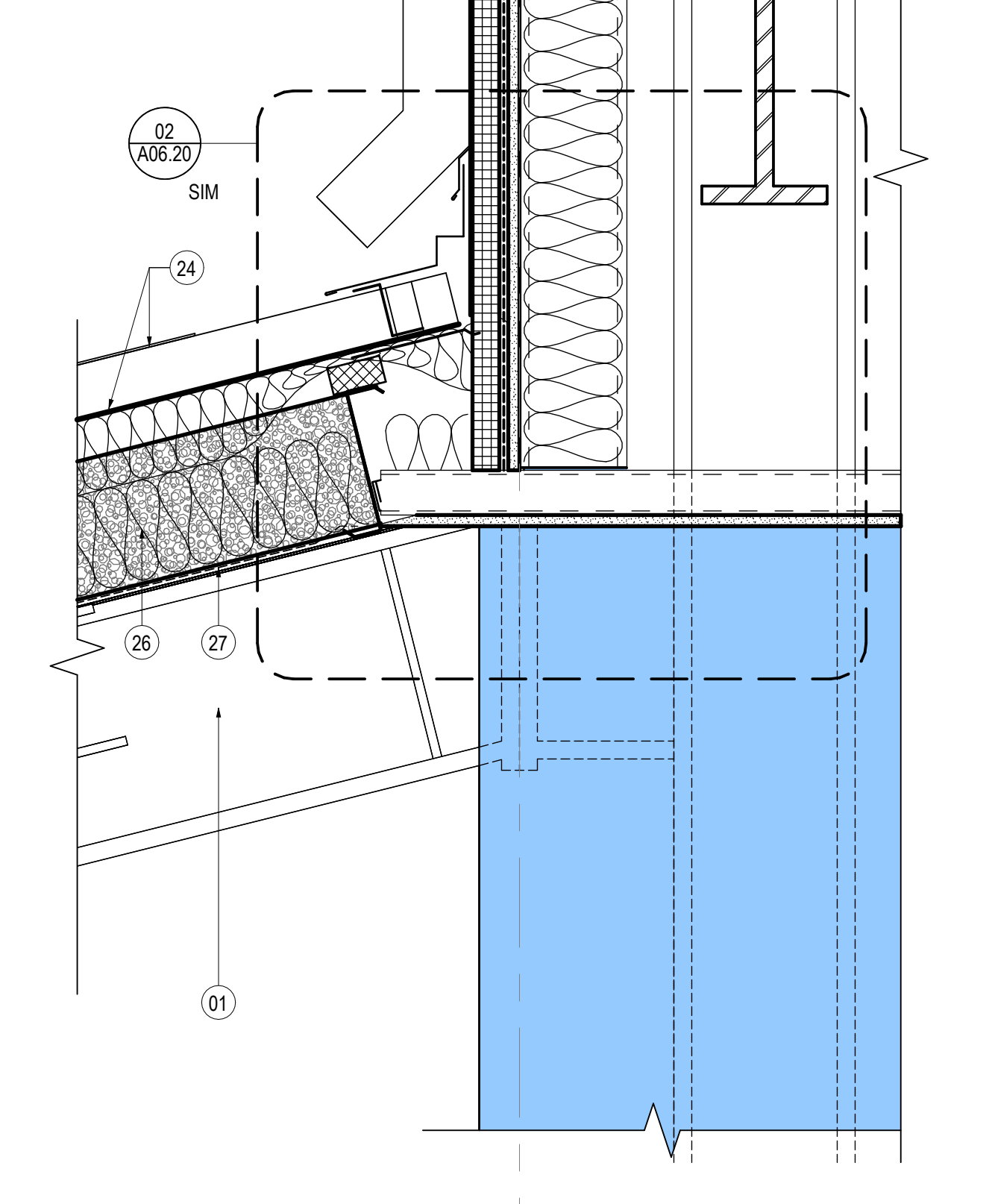


02 NORTH WALL AT HVAC CHASE - Callout 1
SCALE: 1 1/2" = 1'-0"

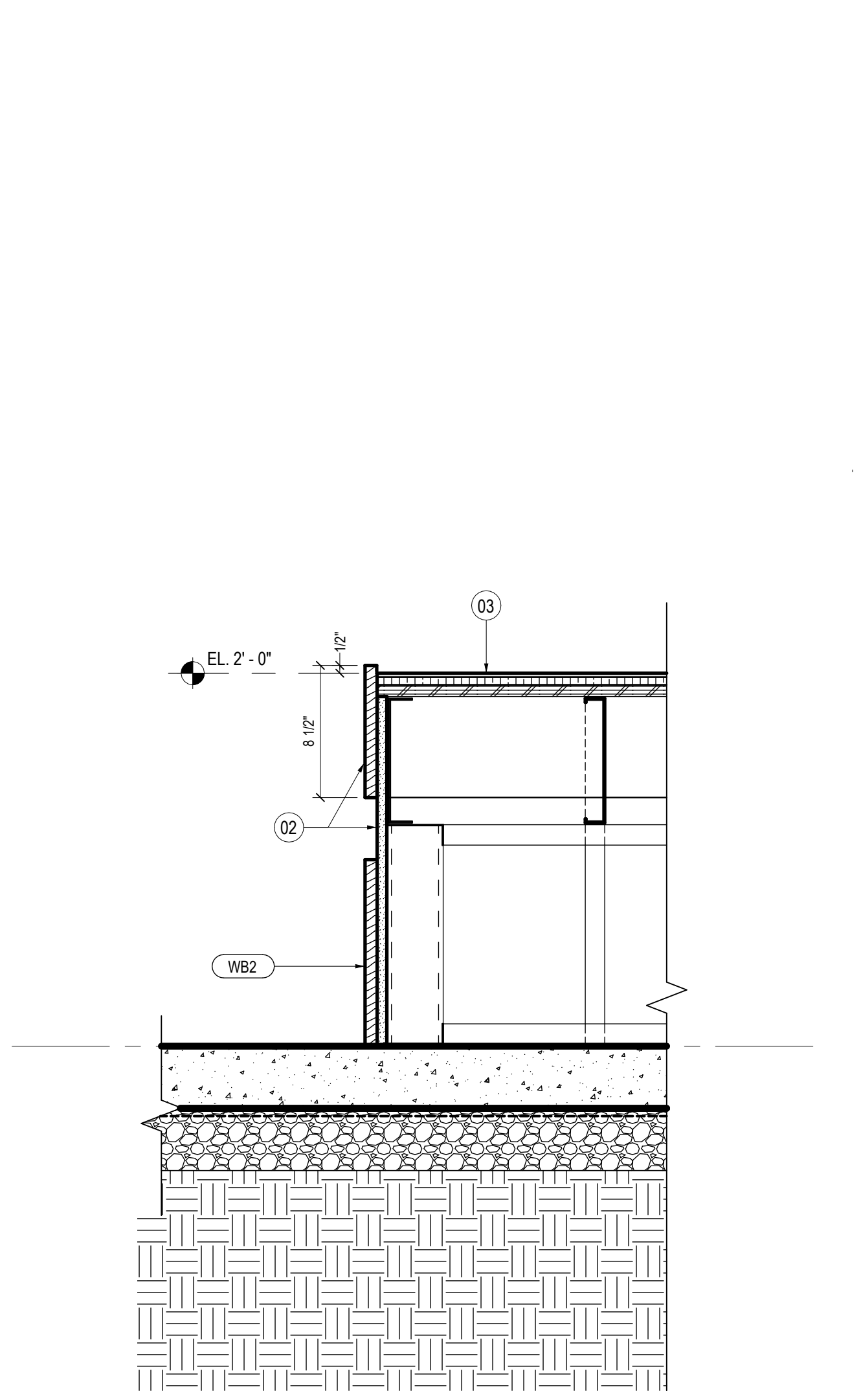


03 NORTH WALL AT HVAC CHASE - Callout 2
SCALE: 1 1/2" = 1'-0"

04 WALL AT NARTHEX / SANCTUARY - Callout 1
SCALE: 1 1/2" = 1'-0"



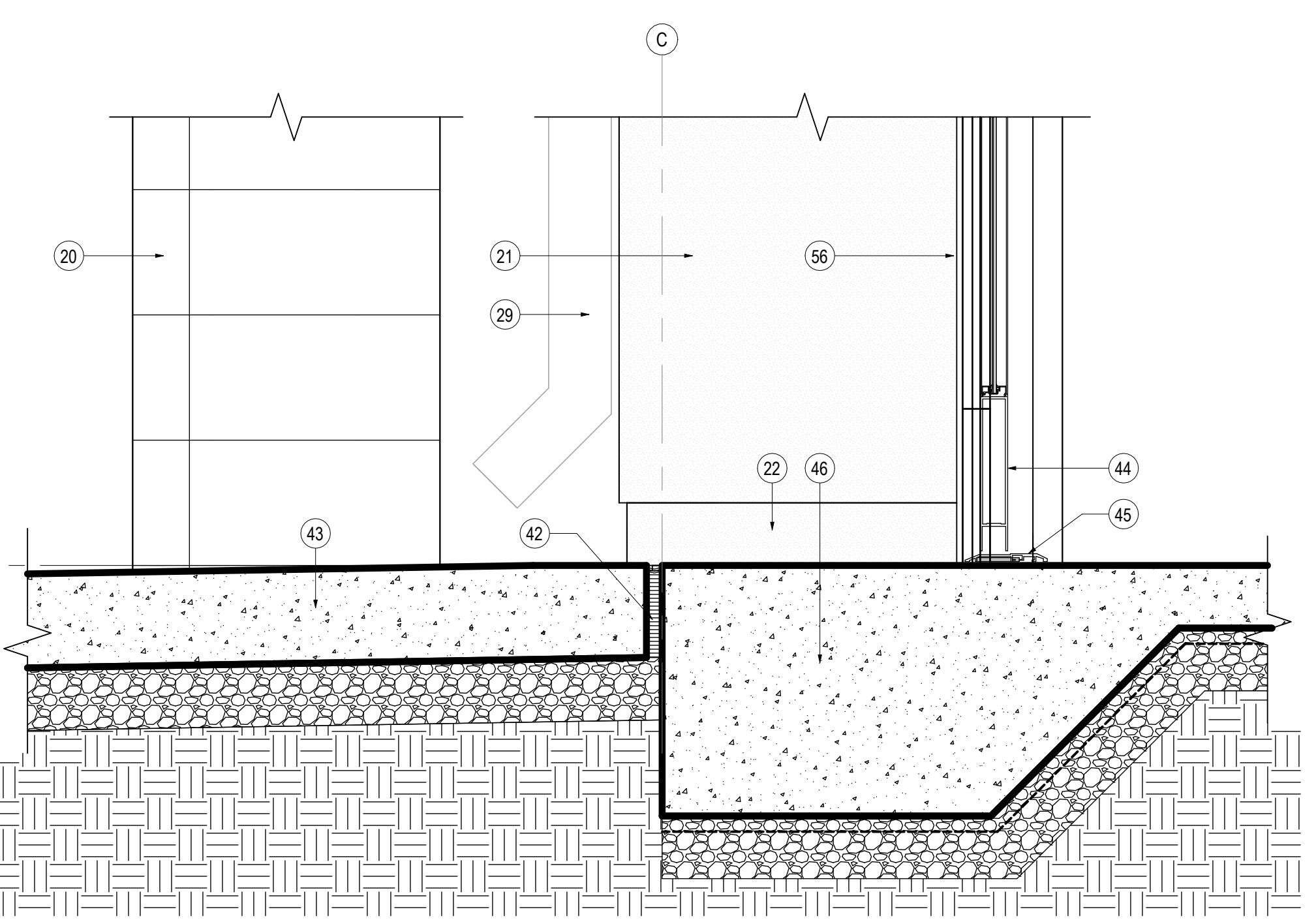
05 Section 2 - Callout 1
SCALE: 1 1/2" = 1'-0"



06 WALL AT MAIN ENTRY - Callout 1
SCALE: 1 1/2" = 1'-0"



07 WALL AT MAIN ENTRY - Callout 2
SCALE: 1 1/2" = 1'-0"

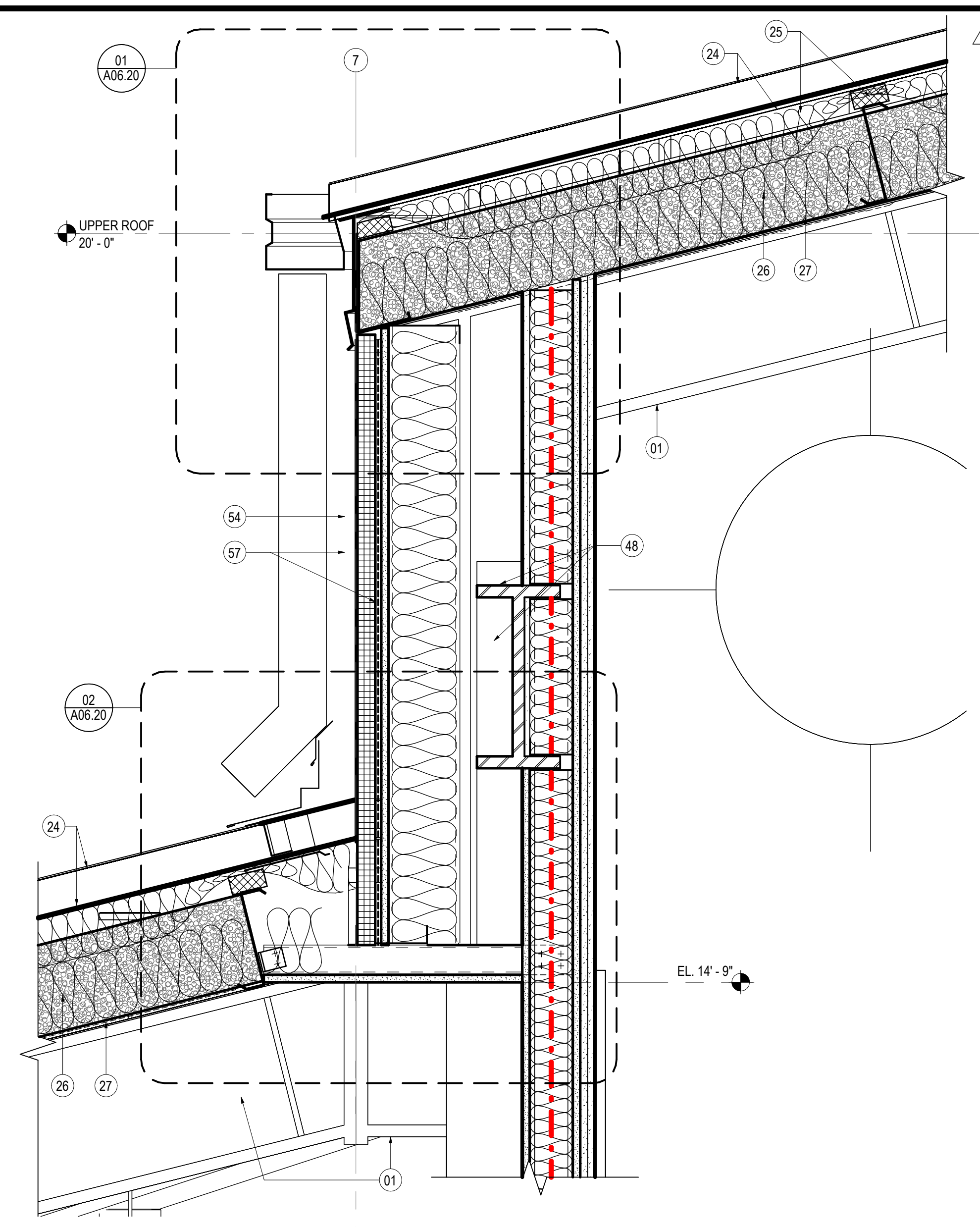


08 WALL AT MAIN ENTRY - Callout 3
SCALE: 1 1/2" = 1'-0"

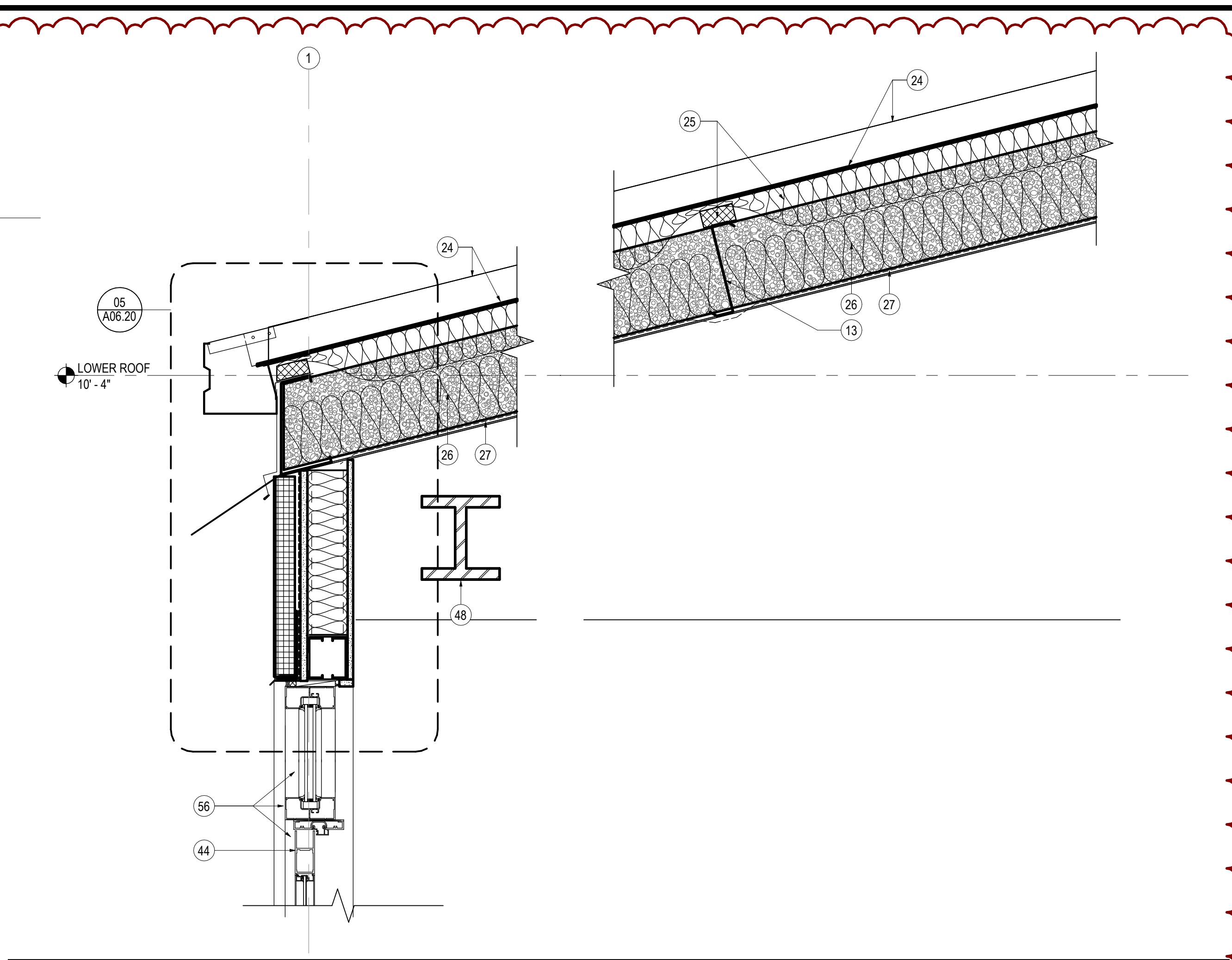


KEY PLAN

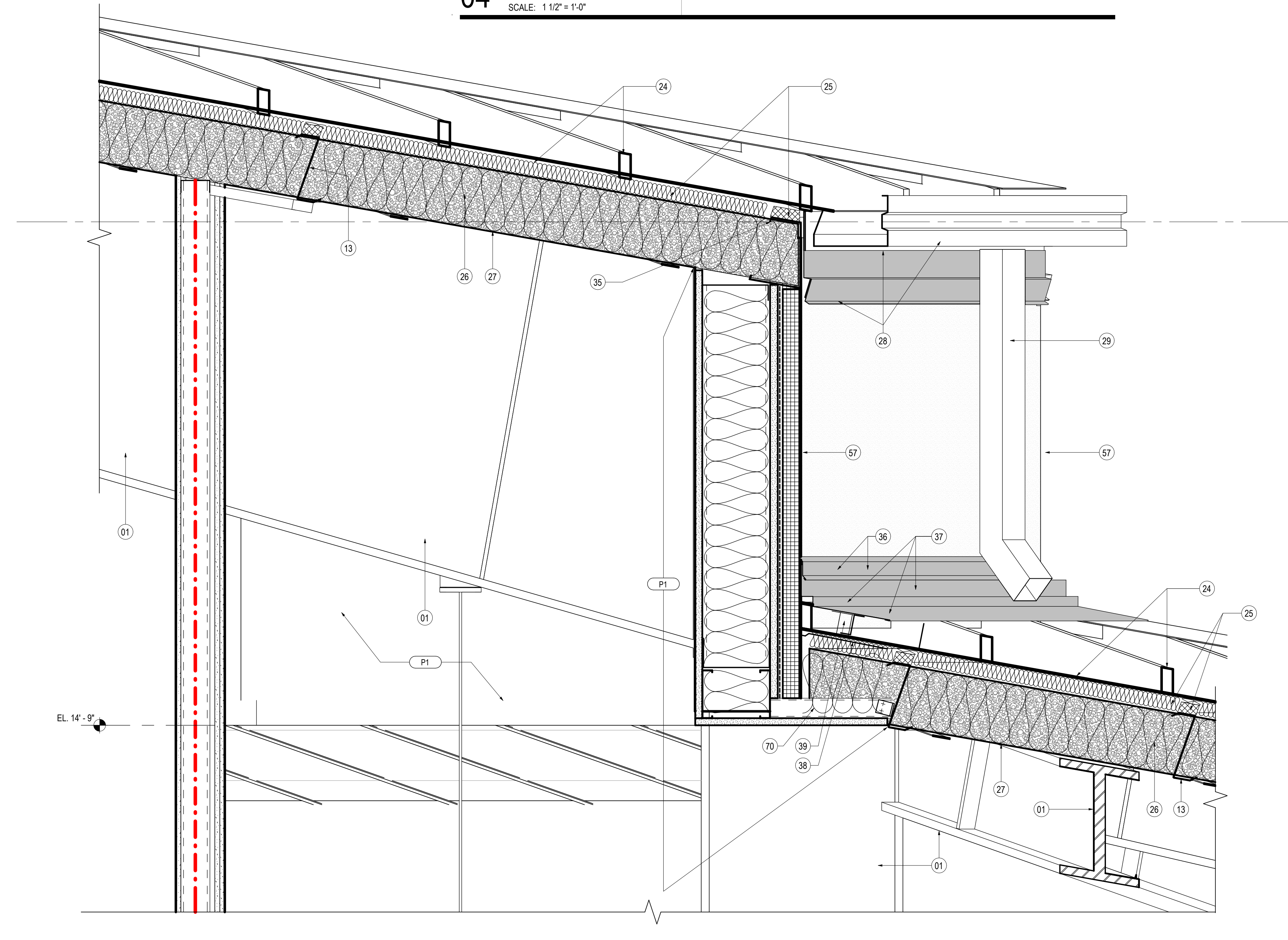




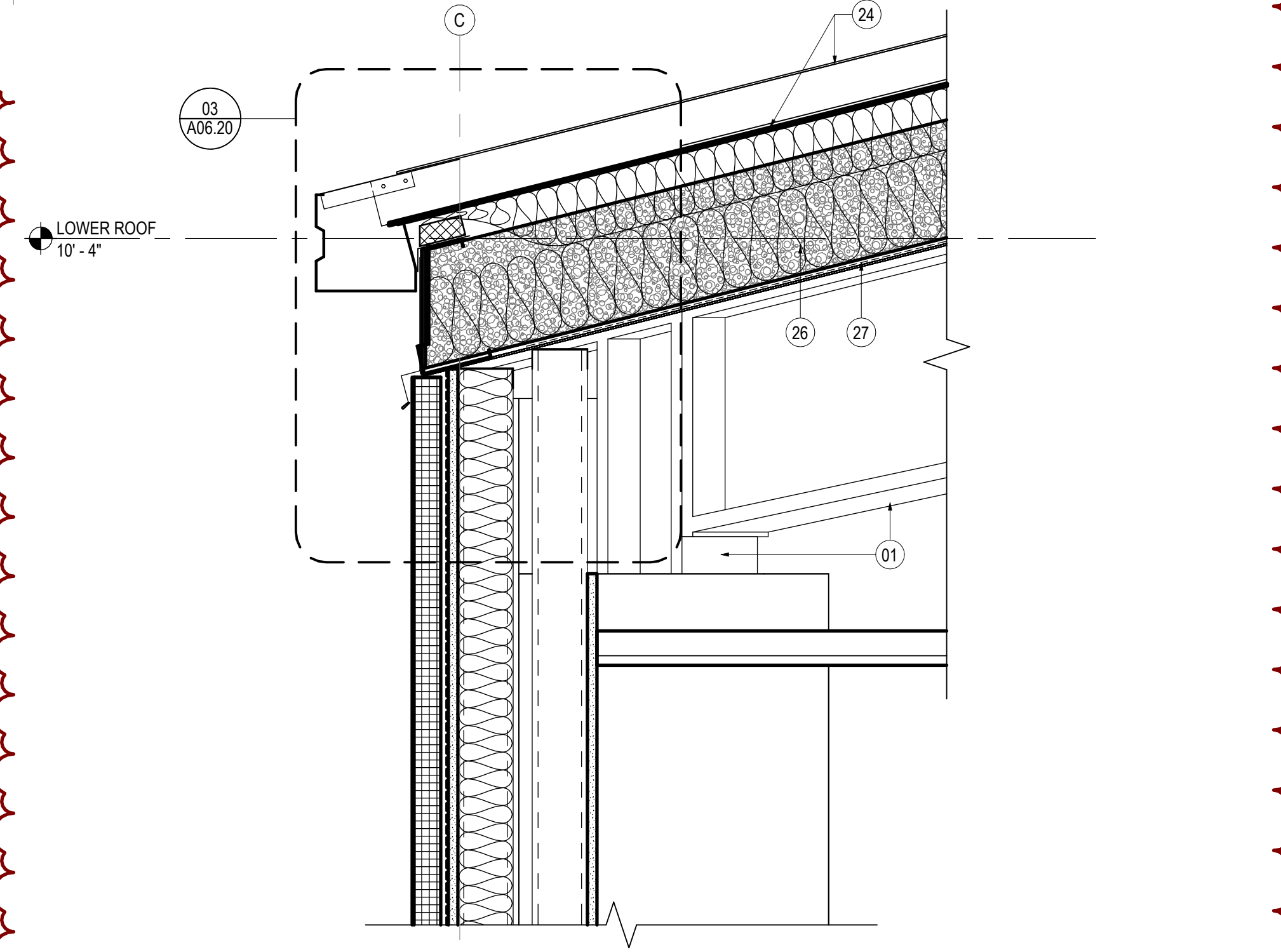
04 EAST / WEST SANCTUARY WALL - Callout 1
SCALE: 1 1/2" = 1'-0"



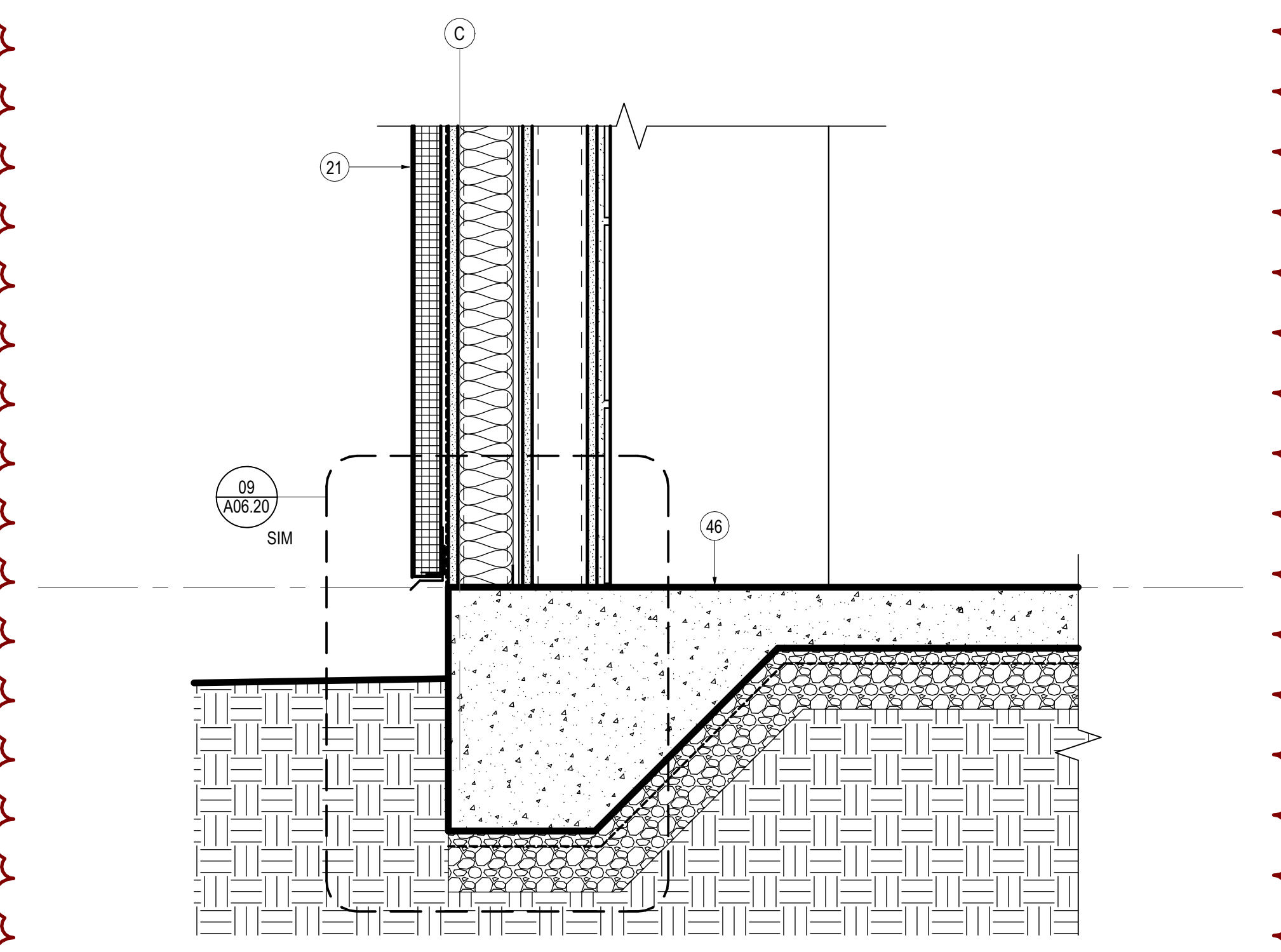
01 WALL AT LOBBY ENTRY - Callout 1
SCALE: 1 1/2" = 1'-0"



05 SANCTUARY WALL AT CHAMFERED CORNER
SCALE: 1 1/2" = 1'-0"



02 SOUTH WALL AT RESTROOMS - Callout 1
SCALE: 1 1/2" = 1'-0"



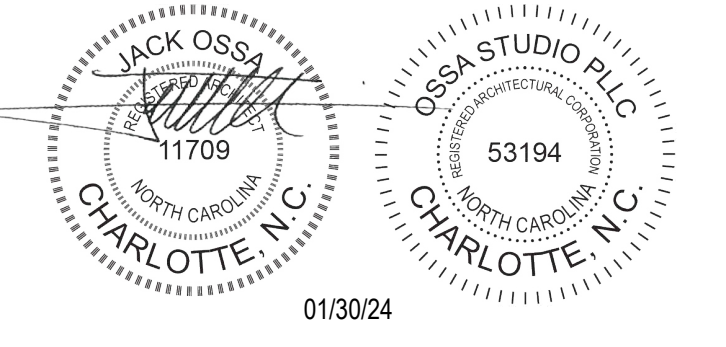
03 SOUTH WALL AT RESTROOMS - Callout 2
SCALE: 1 1/2" = 1'-0"

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Date	Description
01/30/24	FOR CONSTRUCTION
2 10/14/24	RTAP NO. 1

Project Name

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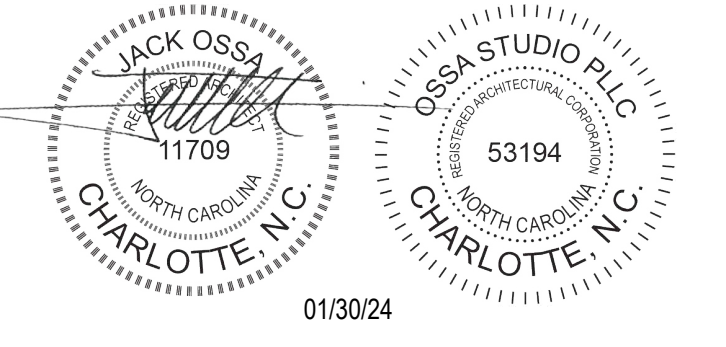
A06.11

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- 38 BACK-UP PLATE BY MTL. BLDG. MANUF.
- 39 OUTSIDE MTL. CLOSURE BY MTL. BLDG. MANUF.
- 41 STL. SPANDREL ANGLE AT BOTTOM OF MTL. Z PURLINS BY MTL. BLDG. MANUFACTURER
- 42 COMPRESSIBLE FILLER
- 43 NEW CONC. SIDEWALK
- 44 ALUM. DOOR AS SCHEDULED
- 45 DOOR THRESHOLD AS SCHEDULED - SET ON FULL BED OF MASTIC
- 46 TURNED-DOWN CONC. SLAB (SEE STRUCT.)
- 47 STRUCT. STL. COLUMN
- 48 STRUCT. STL. MOMENT FRAME - PAINT BLACK WHERE EXPOSED
- 49 SOUND ATTENUATION BLANKET (TYP.)
- 51 LINEAR SLOT RETURN (SEE MECH.)
- 52 MTL. SUPPORT BANDING - SPACE AS DIMENSIONED ON ENLARGED RCP (TYP.)
- 53 UNHINGED / RECESSED KNOXBOX (ALUM. FIN.)
- 54 FLUID-APPLIED AIR BARRIER MEMBRANE
- 55 JOINT SEALANT AND BACKER ROD
- 56 ALUM. STOREFRONT SYSTEM
- 57 E.I.F.S. - 1-1/2" R-7.5 RIGID INSUL. AND 5/8" SHEATHING ON 6" MTL. STUD FRAMING W/ R-13 BLANKET INSUL.
- 59 E.I.F.S. DRAINABLE TRACK
- 60 THRU-WALL STAINLESS STL. FLASHING W/ DRIP EDGE - FLASHED INTO AIR AND WATER BARRIER MEMBRANE
- 61 R-19 FIBERGLASS BLANKET INSUL. BET. MTL. STUD FRAMING (PROVIDE LONGITUDINAL AND TRANSVERSE MTL. SUPPORT BANDING)
- 62 STANDING SEAM MTL. ROOF (OWNER FURNISHED) ON 3/4" FRP PLYWOOD ON 6" MTL. STUD FRAMING
- 68 ROLLERSHADE AT EA. EXT. WINDOW (TYP.)
- 69 EAVE TRIM, PANEL, CAP TRIM, AND FLASHING BY MTL. BLDG. MANUF.
- 70 MTL. STUD BRACE (SEE STRUCT.)



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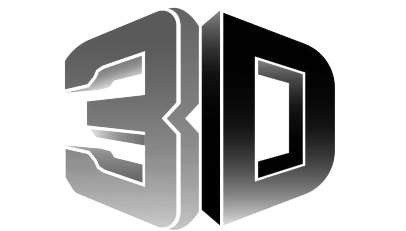
Civil Engineering
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www.providencepartnersinc.com
704.266.6621

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704.287.2193

Date	Description
01/30/24	FOR CONSTRUCTION
2 10/14/24	RTAP NO. 1

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

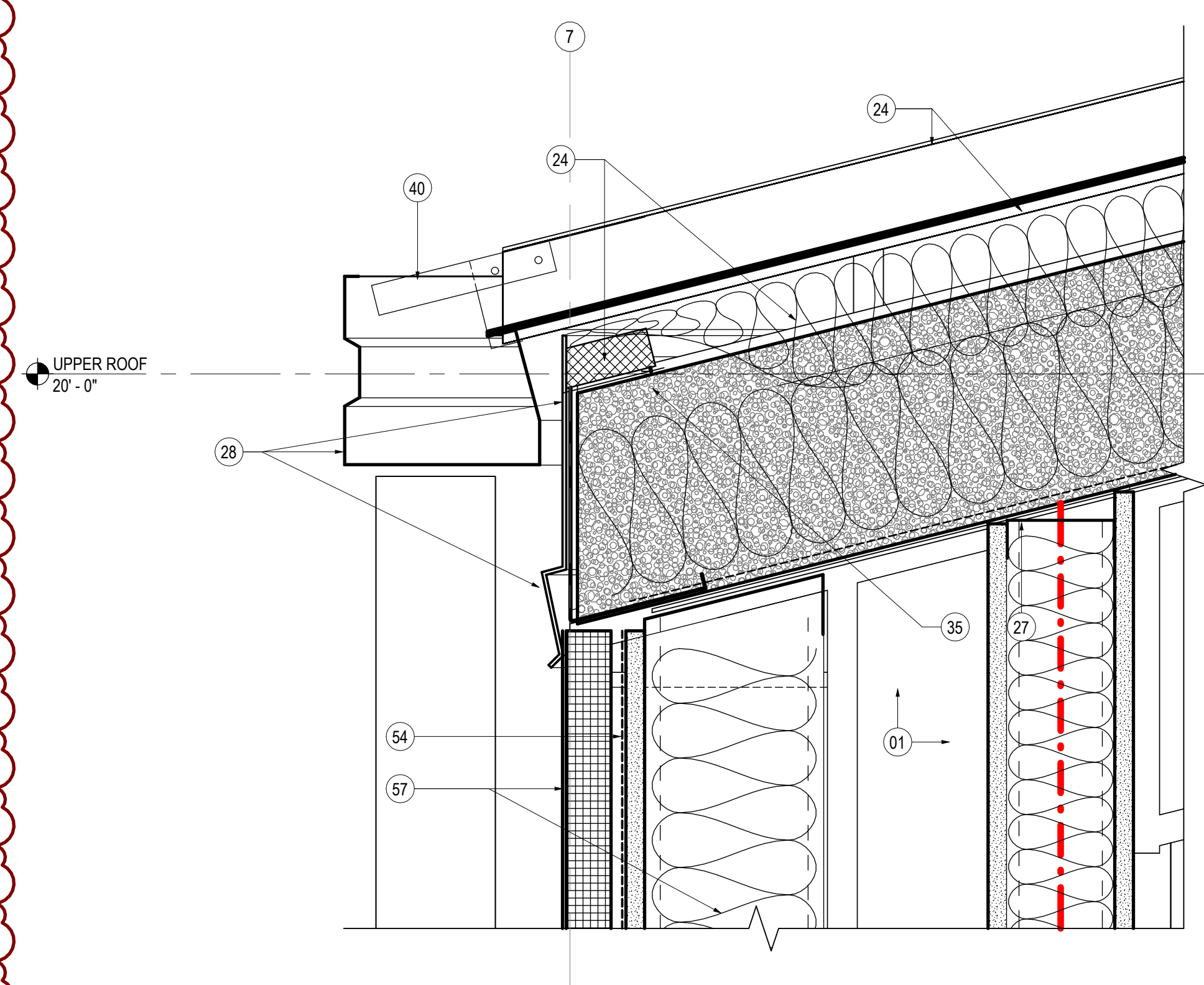
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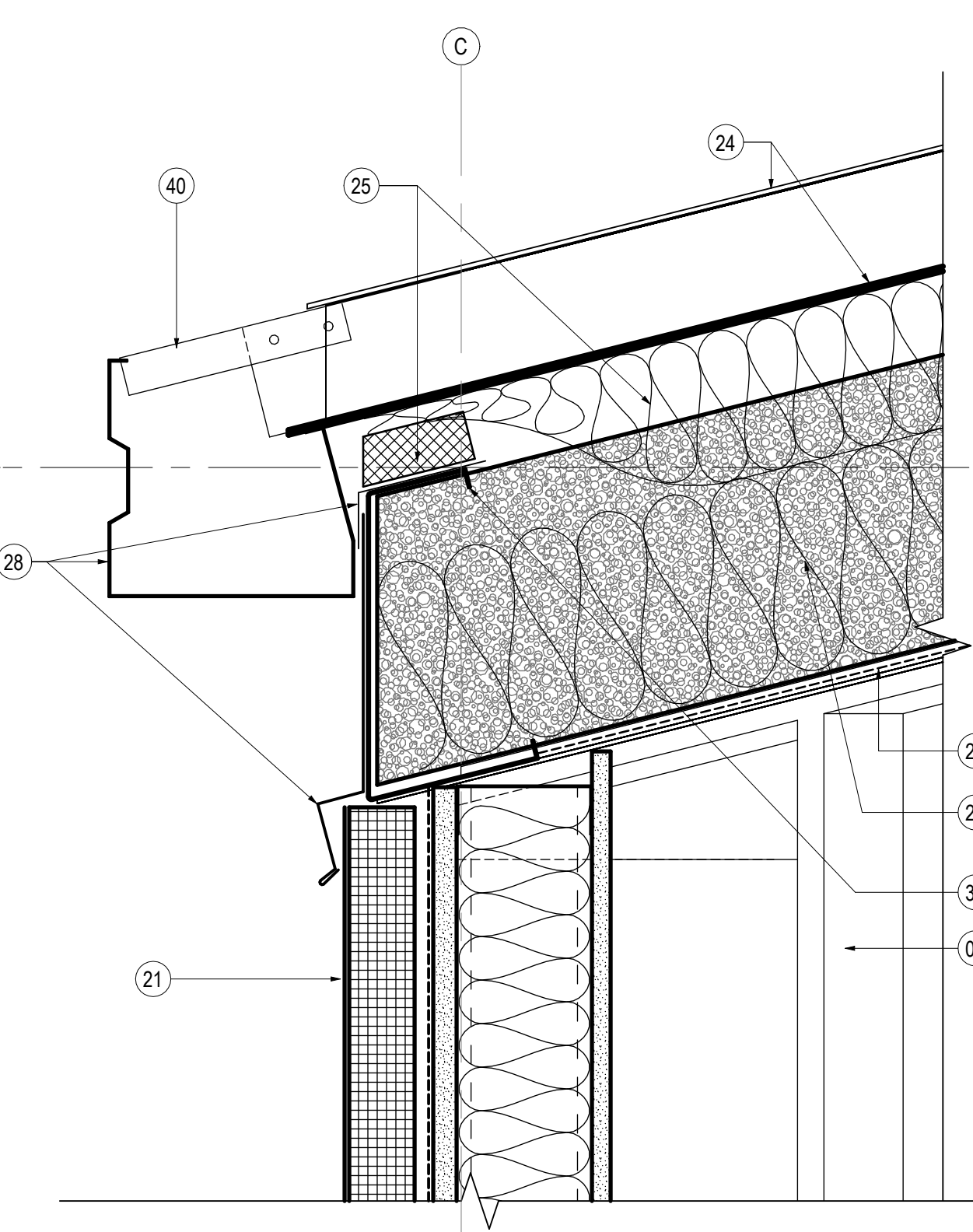
Scale

3" = 1'-0"

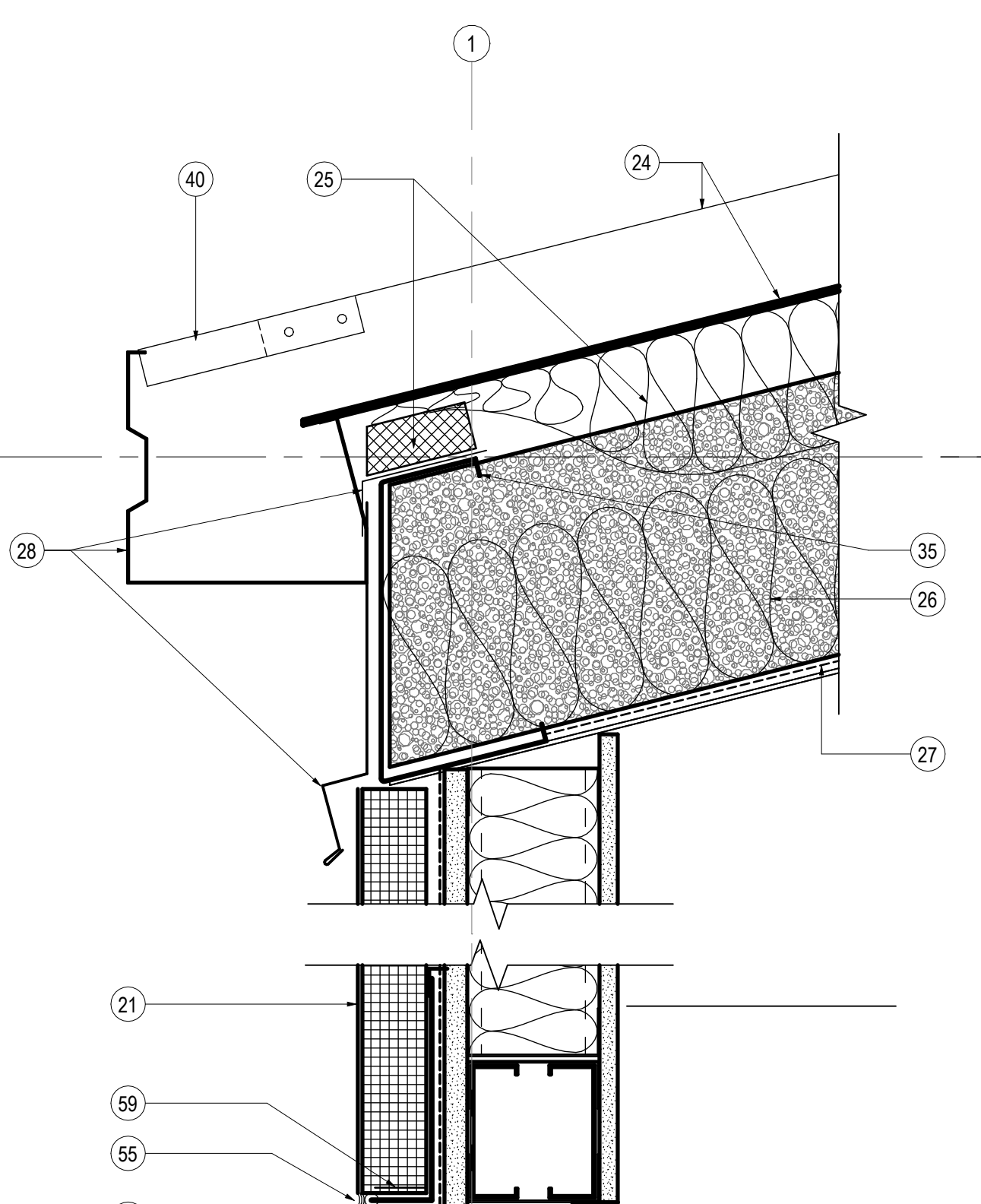
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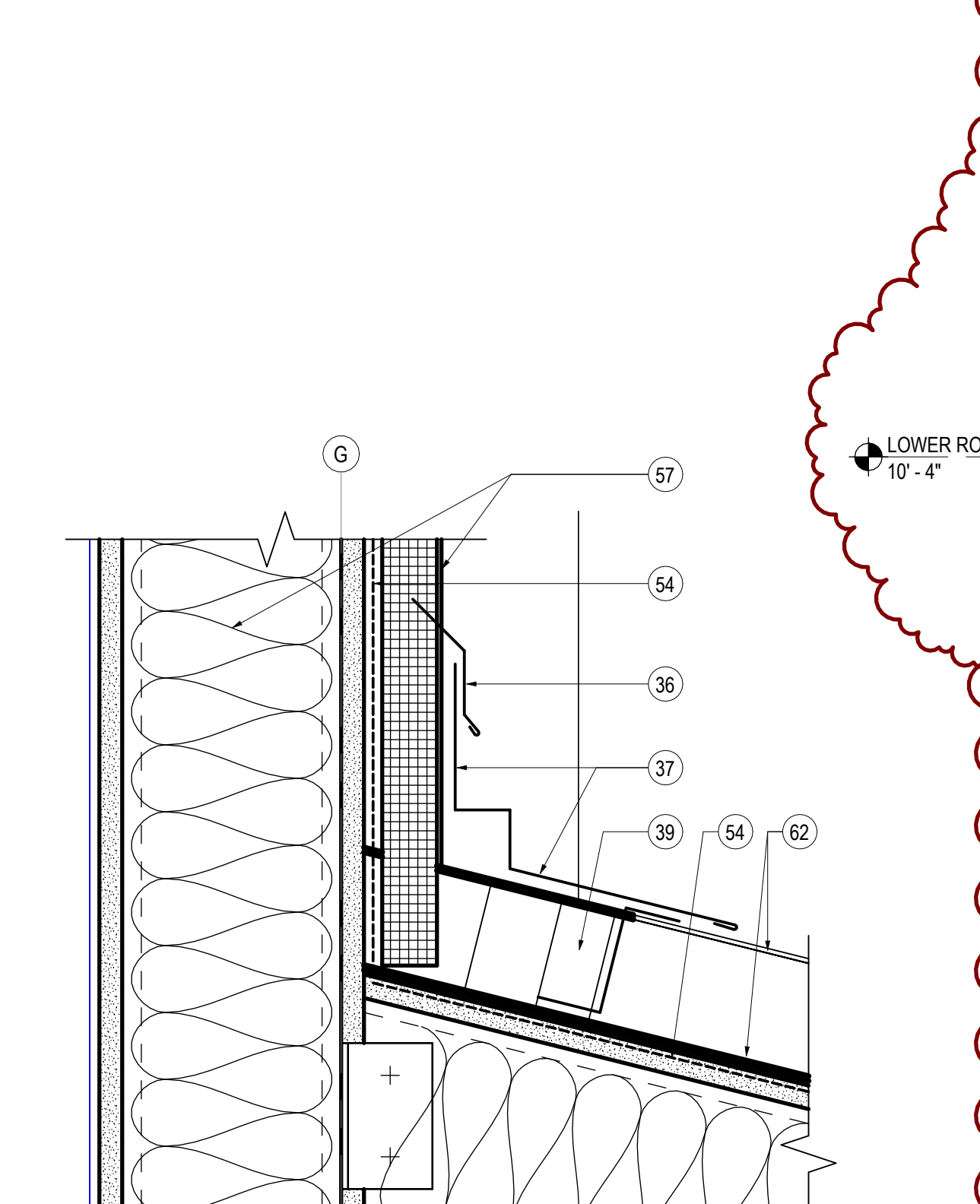
01 UPPER ROOF AT EIFS WALL
SCALE: 3" = 1'-0"



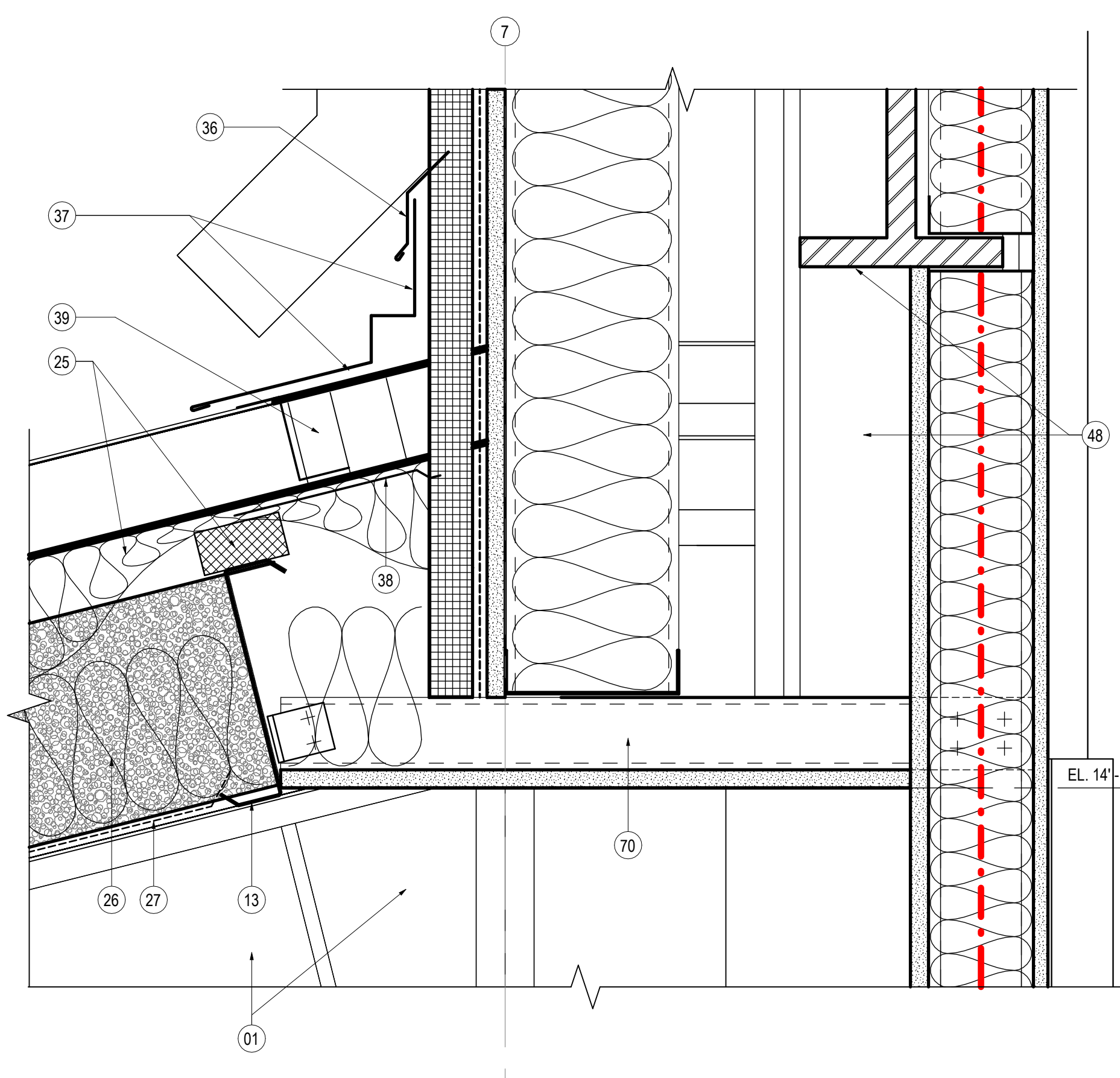
03 LOW ROOF AT CMU WALL
SCALE: 3" = 1'-0"



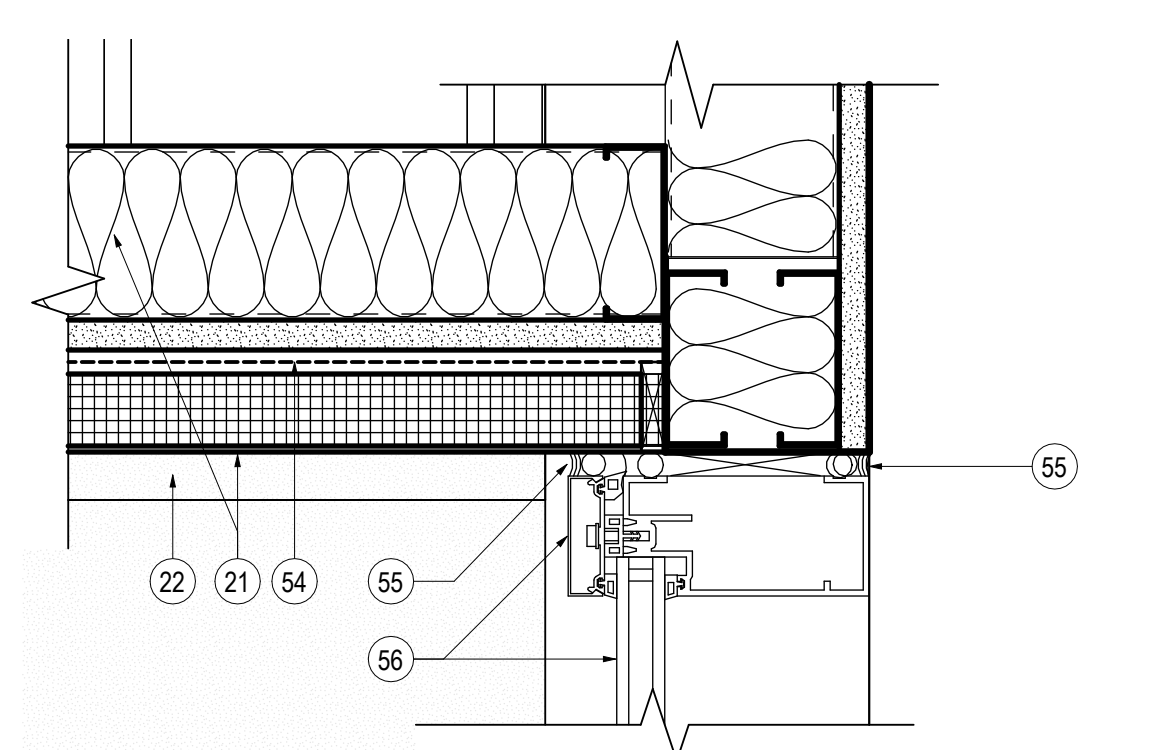
05 LOBBY ENTRY AT CMU WALL
SCALE: 3" = 1'-0"



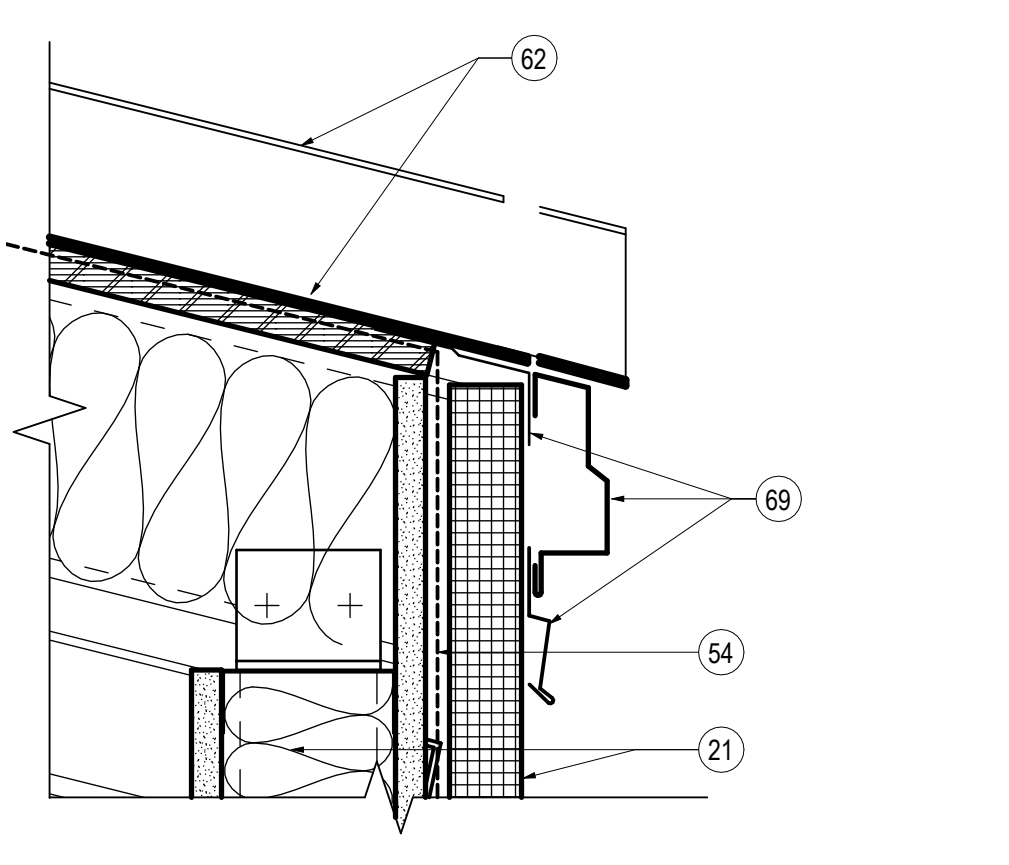
07 HVAC CHASE ROOF AT NORTH WALL
SCALE: 3" = 1'-0"



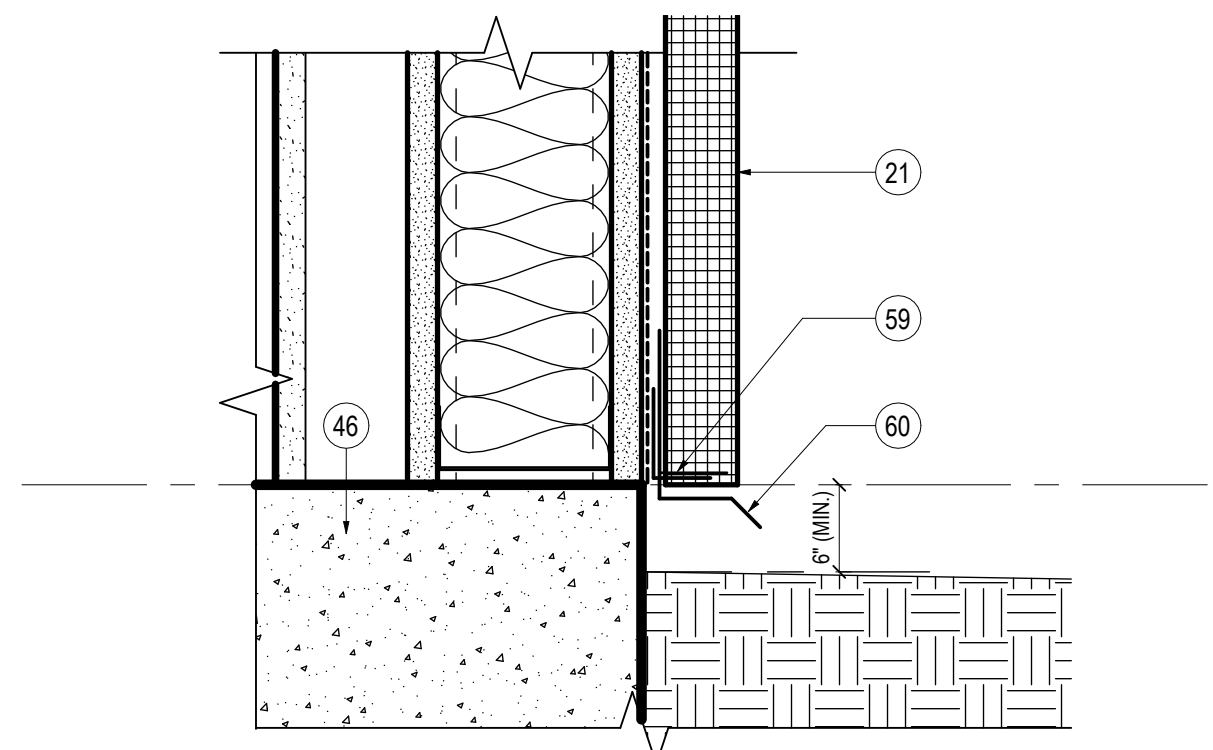
02 LOW ROOF AT UPPER EIFS WALL
SCALE: 3" = 1'-0"



06 WALL AT MAIN ENTRY AT EIFS SOFFIT
SCALE: 3" = 1'-0"



08 HVAC CHASE WALL / ROOF
SCALE: 3" = 1'-0"



09 HVAC CHASE WALL AT FOUNDATION
SCALE: 3" = 1'-0"

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LUMENS	TOTAL FIXTURE WATTS	COLOR TEMP	BALLAST/ DRIVER	VOLTAGE	MOUNTING	MANUFACTURER/MODEL	NOTES
A	2X2 LED FLAT PANEL	4000	29.24	3500K	LED	MVOLT	RECESSED	RENOVA LIGHTING "OVATION" RVN22-N-L040-UNV-DM-C35-AF OR PREAPPROVED EQUAL	
C	4" LED CHAIN HUNG STRIP LIGHT	4000	43	3500K	LED	LED	MVOLT	LITHONIA CLX CLX-L48-3500LM-SEF-MVOLT-40K-80CRI-ZACVH M100 OR PREAPPROVED EQUAL	SET LIGHT TO 3500K. PROVIDE WITH CHAIN HANGARS. MOUNT BOTTOM OF LIGHT AT 9'-0" AFF
D	WET LISTED DECORATIVE LED LIGHTING SCONCE WITH EMERGENCY BATTERY PACK	1700	24	4000	LED	MVOLT	TRACK	SUNLITE 88142-SU LFX/UD/R/12"/24W/BK/SCT OR PREAPPROVED EQUAL	WET LISTED. PROVIDE WITH EMERGENCY BATTERY PACK
F	SUSPENDED NARROW BEAM STRIP LED LIGHT	3000	43	3500K	LED	MVOLT	SUSPENDED	JUNO LIGHTING T286L-35K-90CRI-PDIM-NFL-BL-LSREAD 469 - BARN DOORS OR PREAPPROVED EQUAL	MOUNT OUT OF PUBLIC VIEW BEHIND CURTAIN. PROVIDE WITH LINEAR BEAM SPREAD OPTION AND BARN DOORS. MOUNT ON JUNO T SERIES TRAC T-6FT BL. PROVIDE WITH 2.5A CURRENT LIMITER.
G1	4" LED SQUARE RECESSED DOWNLIGHT IN GYPBOARD CEILING	1500	13.7	4000K	LED	MVOLT	RECESSED	GOTHAM EVO EVO4S3Q-35/15-AR-LSS-MVOLT-GZ1 OR PREAPPROVED EQUAL	MOUNT IN GYPBOARD CEILINGS AND PROVIDE ALL ACCESSORIES FOR INSTALLATION
G2	4" LED SQUARE RECESSED DOWNLIGHT IN ACT CEILING	1500	13.7	3500K	LED	MVOLT	RECESSED	GOTHAM EVO EVO4S3Q-35/15-AR-LSS-MVOLT-GZ1 OR PREAPPROVED EQUAL	MOUNT IN CEILING GRID AND PROVIDE ALL ACCESSORIES FOR INSTALLATION
G3	4" LED SQUARE RECESSED DOWNLIGHT IN GYPBOARD CEILING	2000	19.5	3500K	LED	MVOLT	RECESSED	GOTHAM EVO EVO4S3Q-35/20-AR-LSS-MVOLT-GZ1 OR PREAPPROVED EQUAL	MOUNT IN GYPBOARD CEILINGS AND PROVIDE ALL ACCESSORIES FOR INSTALLATION
G4	4" LED SQUARE RECESSED DOWNLIGHT IN GYPBOARD CEILING	2000	19.5	3500K	LED	MVOLT	RECESSED	GOTHAM EVO EVO4S3Q-35/20-AR-LSS-MVOLT-GZ1 OR PREAPPROVED EQUAL	MOUNT IN CEILING GRID AND PROVIDE ALL ACCESSORIES FOR INSTALLATION
H	VANITY LIGHT	1500	50 MAX	3500K	LED	MVOLT	WALL		TO BE SPECIFIED BY OTHERS
K1	LED PENDANT MOUNTED CYLINDER LIGHT FIXTURE	2000	19.7	3500K	LED	MVOLT	SUSPENDED	GOTHAM EVO EVO6CC-35/20-AR-LSS-MWD-MVOLT-GZ1-CAN4S-CORD LENGTH - BLACK - E15WCP OR PREAPPROVED EQUAL	PROVIDE ACCESSORIES TO MOUNT ON INCLINED CEILING. BLACK FINISH.
K1W	WET LISTED LED PENDANT MOUNTED CYLINDER LIGHT FIXTURE AND EMERGENCY BATTERY PACK	2000	19.7	3500K	LED	MVOLT	SUSPENDED	GOTHAM EVO EVO6CC-35/20-AR-LSS-MWD-MVOLT-GZ1-CAN4S-CORD LENGTH - BLACK - E15WCP - WL OR PREAPPROVED EQUAL	BLACK FINISH.
K2	LED PENDANT MOUNTED CYLINDER LIGHT FIXTURE	8000	74.9	3500K	LED	MVOLT	SUSPENDED	GOTHAM EVO EVO6CC-35/80-AR-LSS-MWD-MVOLT-GZ1-CAN4S-CORD LENGTH - E15WCP OR PREAPPROVED EQUAL	PROVIDE ACCESSORIES TO MOUNT ON INCLINED CEILING.
K2E	SAME AS TYPE 'K2', EXCEPT PROVIDE WITH 90 MINUTE EMERGENCY BATTERY PACK	8000	74.9	3500K	LED	MVOLT	SUSPENDED		
SC1W	WET LISTED LED SCONCE WITH UP/DOWNLIGHT	1500	20W MAX	3500K	LED	MVOLT	WALL		TO BE SELECTED BY OTHERS WET LISTED. BLACK FINISH.
X	THERMOPLASTIC LED EXIT SIGN	5						LITHONIA LQM SERIES OR PREAPPROVED EQUAL	PROVIDE WITH 90 MINUTE BATTERY PACK. MATCH ARROWS AND NUMBER OF FACES WITH DRAWINGS. COLOR TO BE SPECIFIED BY ARCHITECT.
Y	EMERGENCY DUAL HEAD LED LIGHT FIXTURE	5						LITHONIA ELM2L SERIES OR PREAPPROVED EQUAL	PROVIDE WITH 90 MINUTE BATTERY PACK
Z	THERMOPLASTIC LED EXIT SIGN WITH DUAL HEAD LED EMERGENCY LIGHT FIXTURE	5						LITHONIA LHQM SERIES OR PREAPPROVED EQUAL	PROVIDE WITH 90 MINUTE BATTERY PACK. IJ924 COMPLIANCE. MATCH ARROWS AND NUMBER OF FACES WITH DRAWINGS. COLOR TO BE SPECIFIED BY ARCHITECT.

SCHEDULE NOTES

1	NO SUBSTITUTIONS ARE ALLOWED WITHOUT APPROVAL BY EOR AND OWNER.	
2	ALL EXPEDITED COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.	
3	BATTERY BALLASTS SHALL PROVIDE 90 MINUTES OF BATTERY BACKUP AND BE EQUIPPED WITH INTEGRAL INDICATOR LIGHT.	
		4
		5

EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE CIRCUITED TO AN UNSWITCHED LEG OF A LOCAL LIGHTING CIRCUIT (UNLESS OTHERWISE NOTED). INCLUDE 90 MINUTE BATTERY BACKUP AND TESTING MEANS.

THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS TO BE SUBMITTED AT THE TIME OF THE SUBMITTAL ISSUANCE. AND SHALL NOTIFY THE ARCHITECT AND ENGINEER OF ANY DELIVERY CHALLENGES.

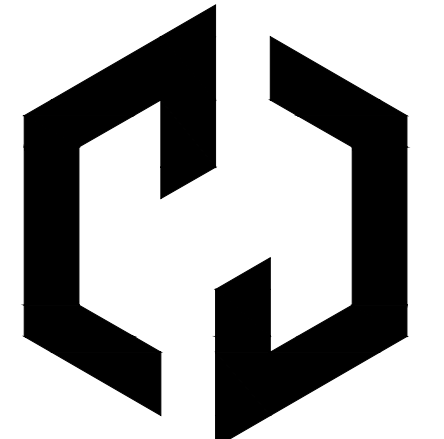
GENERAL ELECTRICAL NOTES:

- THE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW EVERY FITTING AND DETAIL. ALL WORK SHALL BE COMPLETED SO THE JUNCTION BOXES AND COMPONENTS WILL BE ACCESSIBLE FOR SERVICING.
- ALL ELECTRICAL WORK PERFORMED DURING THIS SCOPE OF WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, AND THE REQUIREMENTS OF THE 2020 NATIONAL ELECTRICAL CODE. ALL WORK SHALL COMPLY WITH ANY OWNER SPECIFICATIONS NOT CALLED OUT ON THIS SET OF DRAWINGS.
- WHERE ELECTRICAL CONTINUITY TO EXISTING TO REMAIN RECEPTACLES/LIGHTS/EQUIPMENT IS INTERRUPTED BY DEMOLITION DURING THIS SCOPE OF WORK, RECONNECT THE DEVICE TO THE CIRCUIT IT WAS CONNECTED TO BEFORE DEMOLITION TOOK PLACE UNLESS THE DRAWINGS SHOW OTHERWISE.
- ALL CONDUCTORS SHALL BE COPPER WITH TYPE "THHN" OR "THW" INSULATION. USE "THHN" FOR #10 OR SMALLER CONDUCTORS. USE "THW" FOR CONDUCTORS #8 OR LARGER.
- THE MINIMUM WIRE SIZE SHALL BE #12 A.W.G.
- ALL PENETRATIONS THRU RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRE STOPPED PER N.E.C. 300-21 AND NFPA 221.
- PROVIDE GROUNDING AS REQUIRED BY N.E.C..
- WHERE MOUNTING HEIGHTS ARE SHOWN ON THE DRAWINGS, THE MEASUREMENT IS TO BE TAKEN FROM THE CENTERLINE OF THE DEVICE.
- TYPICAL CONDUIT SIZES ARE 3/4" EMT WITH 2#12, 1#12G. AWG UNLESS OTHERWISE NOTED.
- A #12 GROUND SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT UNLESS NOTED OTHERWISE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL THAT FEEDS THE EQUIPMENT.
- CONTRACTOR SHALL PROVIDE A PANEL SCHEDULE DIRECTORY LOCATED ON THE INSIDE COVER OF THE ELECTRICAL PANEL. ALL CIRCUITS, SPARES, AND SPACES SHALL BE CORRECTLY LABELED.
- ALL BRANCH CIRCUIT HOMERUN CONDUCTORS SHALL BE PROVIDED WITH A SEPARATE INSULATED #12 AWG EQUIPMENT GROUNDING CONDUCTOR.
- IF THE GENERAL CONTRACTOR DOES ANY WORK THAT CAUSES DISRUPTION TO ANY ELECTRICAL CIRCUITS OR SYSTEMS, THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL REMAINING WORKING DEVICES ON THAT CIRCUIT AS REQUIRED TO ENSURE PROPER WORKING SYSTEM.
- BUILDING CODE SECTION 705.4 SHALL BE MET WITH ELECTRICAL DEVICES TO BE INSTALLED IN RATED WALLS.
- ALL ELECTRICAL MATERIALS, DEVICES, AND EQUIPMENT SHALL BE LISTED BY UL OR OTHER STATE APPROVED THIRD PARTY TESTING AGENCY.
- FIRE RATED SLEEVES SHALL BE PROVIDED AND ALL FIRESTOPPING SHALL BE PROVIDED AS REQUIRED BY CODE WHEN CABLING IS ROUTED THROUGH A FIRE RATED PARTITION. BLANK COVERS SHALL BE INSTALLED ON RINGS.
- ALL ELECTRICAL EQUIPMENT SHALL BE PROTECTED FROM DAMAGE AFTER BEING INSTALLED. CONTRACTOR SHALL NOT INSTALL TRIM AND COVER PLATES UNTIL AFTER ALL FINISHES TO ARCHITECTURAL ELEMENTS HAVE BEEN COMPLETED.
- MOUNT ALL DISCONNECT SWITCHES TO STRUCTURE. DISCONNECTS SHALL NOT BE MOUNTED TO DUCTWORK OR MECHANICAL EQUIPMENT.
- ANY CABLING TO BE INSTALLED DURING THIS SCOPE OF WORK THAT IS ROUTED THROUGH ANOTHER TENANT SPACE OR COMMON AREA SHALL BE ENCLOSED IN CONDUIT.
- ALL LIGHT FIXTURE SHALL BE CLEANED, AND FULLY FUNCTIONAL AT MOVE-IN. THIS INCLUDES RE-LAMPING.
- CONTRACTOR SHALL PROVIDE AND INSTALL NAMEPLATE FOR ALL RECEPTACLES AND POWERED DEVICES. INFORMATION ON NAMEPLATE SHALL INCLUDE ELECTRICAL PANEL AND CIRCUIT NUMBER FROM WHICH DEVICE IS POWERED.
- WHERE TWO SWITCHES OR MORE (INCLUDING DIMMERS) ARE LOCATED NEXT TO EACH OTHER, CONTRACTOR SHALL PROVIDE AND INSTALL A SINGLE SWITCHPLATE TO PROVIDE A NEATER APPEARANCE.
- NO MC CABLE IS ALLOWED WHERE VISIBLE.
- ALL CONDUCTORS #1 AND UNDER SHALL BE RATED FOR 60 DEGREES CELSIUS. ALL CONDUCTORS LARGER THAN #1 SHALL BE RATED FOR 75 DEGREES CELSIUS.
- ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.

MOUNTING HEIGHT NOTES:

- WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES MUST BE MOUNTED MOUNTED NO LOWER THAN 80" AFF TO BOTTOM OF DEVICE AND NO HIGHER THAN 96" TO TOP OF THE DEVICE. CONTRACTOR SHALL MOUNT THESE DEVICES AT 80" TO THE MIDDLE OF THE DEVICE UNLESS FIELD CONDITIONS DO NOT ALLOW TO MOUNT AT THIS HEIGHT. IF THE DEVICE CAN NOT BE LOCATED BETWEEN 80" AND 96", CONTACT ENGINEER IMMEDIATELY FOR SOLUTION.
- MOUNT CENTER LINE OF EXIT SIGN 24" ABOVE DOOR WHERE CEILING IS OVER 12'-0" AFF OR TO STRUCTURE WHERE NO CEILING IS PRESENT. IF CEILING IS 12'-0" AFF OR UNDER, CONTRACTOR SHALL MOUNT CENTER LINE OF EXIT SIGN 12" BELOW CEILING.
- WALL MOUNTED TELEPHONES, FIRE ALARM PULL STATIONS, AND LIGHT SWITCHES SHALL BE MOUNTED AT 48" AFF TO TOP OF THE DEVICE.
- ALL RECEPTACLES SHALL BE MOUNTED AT 18" AFF TO THE CENTER LINE OF THE DEVICE UNLESS OTHERWISE NOTED.
- THE NEAREST EDGE OF ALL CEILING MOUNTED SMOKE OR HEAT DETECTORS SHALL BE LOCATED NO LESS THAN 4" FROM THE WALL.

ELECTRICAL SYMBOL LEGEND	
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	CONCEALED CONDUIT
	CONCEALED CONDUIT IN FLOOR OR UNDERGROUND
	CIRCUIT HOMERUN TO PANEL; EACH ARROWHEAD = 1 CIRCUIT
	HASH MARKS ACROSS CONDUIT INDICATE THE NUMBER OF #12 CONDUCTORS (# OF PHASES + NEUTRAL) UNLESS OTHERWISE NOTED. NO HASH MARKS INDICATE TWO #12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY HASH MARKS.
	120/208V ELECTRICAL PANELBOARD
	277/480V ELECTRICAL PANELBOARD
	NON-FUSED DISCONNECT SWITCH (FRAME/POLES)
	FUSED DISCONNECT SWITCH (FRAME/POLES/FUSE) - FUSE IF NEEDED AND SIZE PER EQUIPMENT NAMEPLATE
POWER SYMBOLS	
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION AND WEATHERPROOF HOUSING
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION
	5-20R DUPLEX RECEPTACLE
	QUADRAPLEX RECEPTACLE
	SPECIAL RECEPTACLE. NEMA TYPE NOTED NEXT TO DEVICE OR IN KEYPAD NOTE
	FLOOR MOUNTED POKE-THRU DEVICE WITH DUPLEX RECEPTACLE FOR NON-SLAB ON GRADE APPLICATIONS. FLOOR MOUNTED RECESSED FLOOR BOX WITH DUPLEX RECEPTACLE FOR SLAB ON GRADE APPLICATIONS.
	FLOOR MOUNTED POKE-THRU DEVICE WITH QUADRAPLEX RECEPTACLE FOR NON-SLAB ON GRADE APPLICATIONS. FLOOR MOUNTED RECESSED FLOOR BOX WITH QUADRAPLEX RECEPTACLE FOR SLAB ON GRADE APPLICATIONS.
	FLOOR MOUNTED POKE-THRU DEVICE WITH DUPLEX RECEPTACLE AND DATA/COMMUNICATIONS DEVICES FOR NON-SLAB ON GRADE APPLICATIONS. FLOOR MOUNTED RECESSED FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA/COMMUNICATIONS DEVICES FOR SLAB ON GRADE APPLICATIONS.
	FLOOR MOUNTED POKE-THRU DEVICE WITH QUADRAPLEX RECEPTACLE AND DATA/COMMUNICATIONS DEVICES FOR NON-SLAB ON GRADE APPLICATIONS. FLOOR MOUNTED RECESSED FLOOR BOX WITH QUADRAPLEX RECEPTACLE AND DATA/COMMUNICATIONS DEVICES FOR SLAB ON GRADE APPLICATIONS.
	CAST IRON FURNITURE FEED FLOOR BOX. NUMBER NEXT TO DEVICE INDICATES NUMBER OF CURBLES TO BE SERVED BY THIS DEVICE. BASIS OF DESIGN IS LEGRAND EVOLUTION SERIES FLOOR BOX, FURNITURE SERIES. PROVIDE COVER PLATES AND FLANGES AS REQUIRED. COORDINATE EXACT LOCATION AND COVER FINISH WITH ARCHITECT.
	TELECOMMUNICATIONS JACK (CONTRACTOR SHALL PROVIDE AND INSTALL JUNCTION BOX CONNECTED TO PULLSTRING TO UP ABOVE ACCESSIBLE CEILING)
	DUPLEX RECEPTACLE WITH (2) USB PLUGS. BASIS OF DESIGN IS LEGRAND 'TM26USBWCCO'
	CONDUIT STUB UP
	FURNITURE BASE FEED
	CARD READER. PROVIDE JUNCTION BOX WITH PULLSTRING TO UP ABOVE ACCESSIBLE CEILING.
	TELEVISION. REFER TO DETAIL ON THIS DRAWING SET. MOUNT AT 46" AFF UNLESS OTHERWISE NOTED.
LIGHTING SYMBOLS	
	LIGHT FIXTURE LETTER NEXT TO LIGHT SIGNIFIES LIGHTING TYPE - REFER TO LIGHTING FIXTURE SCHEDULE
	EMERGENCY OVERHEAD LIGHT FIXTURE (LETTER NEXT TO LIGHT SIGNIFIES LIGHTING TYPE - REFER TO LIGHTING FIXTURE SCHEDULE)
	EXIT SIGN (COORDINATE ARROWS AND FACES WITH DRAWINGS)
	EMERGENCY "BUG EYE" LIGHT FIXTURE
	COMBINATION EXIT SIGN / EMERGENCY "BUG EYE" LIGHT FIXTURE
	WALL MOUNTED COMMERCIAL GRADE DECORATOR LIGHT SWITCH. GREENGATE 7621 SERIES. VALUE ENGINEERING SUBSTITUTION SHALL BE COMMERCIAL GRADE TOGGLE SWITCH. GREENGATE 6520 SERIES.
	WALL MOUNTED STANDARD 0-10V COMMERCIAL GRADE SLIDE DIMMER LIGHT SWITCH. GREENGATE WBSD-010M-C1
	WALL MOUNTED STANDARD COMMERCIAL GRADE THREE-WAY TOGGLE LIGHT SWITCH. GREENGATE 'YWW-D-1001' WIRED FOR THREE-WAY OPERATION.
	WALL MOUNTED 0-10V DIMMING LIGHT SWITCH WITH DUAL TECHNOLOGY INTEGRAL OCCUPANCY SENSOR. GREENGATE 'YWW-D-010'
	WALL MOUNTED 0-10V RECESSED DUAL RELAY LIGHT SWITCH WITH DUAL TECHNOLOGY INTEGRAL OCCUPANCY SENSOR. GREENGATE 'YWW-D-010V-N'. THIS CONTROL SWITCH SHALL CONTROL TWO ZONES OF LIGHTING.
	WALL MOUNTED 0-10V RECESSED DUAL RELAY LIGHT SWITCH WITH DUAL TECHNOLOGY INTEGRAL OCCUPANCY SENSOR. GREENGATE 'YWW-D-010V-N'. THIS CONTROL SWITCH SHALL CONTROL TWO ZONES OF LIGHTING.
	WALL MOUNTED OCCUPANCY SENSOR / LIGHT SWITCH COMBINATION UNIT. GREENGATE 'YWW-D-1001-MV' WIRED FOR SINGLE POLE OPERATION.
	WALL MOUNTED 0-10V RECESSED DUAL RELAY LIGHT SWITCH WITH DUAL TECHNOLOGY INTEGRAL OCCUPANCY SENSOR. GREENGATE 'YWW-D-010V-N'. THIS CONTROL SWITCH SHALL CONTROL TWO ZONES OF LIGHTING.
	WALL MOUNTED OCCUPANCY SENSOR / LIGHT SWITCH COMBINATION UNIT. GREENGATE 'YWW-D-1001-MV' WIRED FOR THREE-WAY OPERATION.
	CEILING MOUNTED 0-10V DUAL TECHNOLOGY OCCUPANCY SENSOR. GREENGATE SAC07-1000 FOR SPACES UP TO 30'X18'. GREENGATE UNIT CT-200V FOR SPACES GREATER THAN 34'X18' AND LESS THAN 46'X25'
	ABOVE ACCESSIBLE CEILING MOUNTED 0-10V POWER PACK. GREENGATE 'SP90' SERIES OR EQUAL BY SENSOR SWITCH, WATTSTOPPER, LEVITON, NLIGHT. WHERE THERE ARE TWO POWER PACKS IN A ROOM/AREA, ONE POWER PACK IS TO CONTROL ONE OF THE LIGHTING ZONES AND THE OTHER POWER PACK(S) SHALL CONTROL THE OTHER(S). POWER PACKS SHALL BE PROVIDED WITH DEFAULT MODES TO MATCH DEFAULTS OF SWITCHES THAT ARE TO BE PAIRED WITH SENSORS.
LIGHTING NOTES:	
TIMEOUTS FOR ALL OCCUPANCY OR VACANCY SENSORS SHALL BE SET TO MAXIMUM LENGTH ALLOWED BY SENSOR MANUFACTURER.	
MANUFACTURERS ALLOWED ARE GREENGATE (BASIS OF DESIGN), NLIGHT, SENSOR SWITCH, WATTSTOPPER, LEVITON OR OTHER PREAPPROVED EQUAL. ALL LIGHTING CONTROL PRODUCTS FOR THE PROJECT SHALL BE OF THE SAME MANUFACTURER.	
PROVIDE AND INSTALL ACCESSORIES REQUIRED FOR FULL OPERATION OF DEVICES.	
LIGHTING CONTROLS SHALL BE TYPE RECOMMENDED BY LIGHTING MANUFACTURER TO OPERATE THE LIGHTING TYPE WITH FEATURES AS SELECTED/PROVIDED. MANUFACTURER'S RECOMMENDATION SHALL SUPERCEDE ALL SPECIFICATIONS ON THIS ELECTRICAL SYMBOL LEGEND.	
ALL CEILING MOUNTED OCCUPANCY OR VACANCY SENSORS SHALL BE CENTRALLY LOCATED IN THE ROOM IT SERVES AND POSITIONED FOR ACCURATE DETECTION.	
FOR ALL LOW VOLTAGE CEILING MOUNTED OCCUPANCY AND VACANCY SENSORS, THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL A POWER PACK OF MODEL RECOMMENDED BY MANUFACTURER.	
ALL DEVICE COLORS SHALL BE SELECTED BY ARCHITECT/INTERIOR DESIGNER.	
FIRE ALARM NOTIFICATION	
	FIRE ALARM PULL STATION
	WALL MOUNTED HORN/STROBE NOTIFICATION DEVICE (CANDELA RATING IS LOCATED NEXT TO DEVICE). MATCH EXISTING.
	WALL MOUNTED VISUAL NOTIFICATION DEVICE (CANDELA RATING IS LOCATED NEXT TO DEVICE). MATCH EXISTING.
	CEILING MOUNTED HORN/STROBE NOTIFICATION DEVICE (CANDELA RATING IS LOCATED NEXT TO DEVICE). MATCH EXISTING.
	CEILING MOUNTED VISUAL NOTIFICATION DEVICE (CANDELA RATING IS LOCATED NEXT TO DEVICE). MATCH EXISTING.
	FIRE ALARM ANNUNCIATION PANEL
	FIRE ALARM CONTROL PANEL
ABBREVIATIONS	
~"	# OF INCHES TO MOUNT CENTERLINE OF DEVICE ABOVE FINISHED FLOOR
AC	ABOVE COUNTER
BC	BELOW CEILING
CH	CEILING MOUNTED
EC	EMPTY CONDUIT (WITH PULLSTRING)
E.C.	ELECTRICAL CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
WP	NEMA 3R RATED



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08/27/24

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Date Description

12/15/2023	DESIGN DEVELOPMENT DWGS.
12/22/2023	DESIGN DEVELOPMENT DWGS.
01/24/2024	REVIEW DWGS.
01/30/2024	ISSUED FOR CONSTRUCTION.
1 04/22/2024	PERMIT REVISION
2 10/14/2024	RTAP NO. 1

Project Name



community church
making church come alive

658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

GENERAL NOTES, RISER DIAGRAM & ABBREVIATIONS - ELECTRICAL

Scale

NA

E00.01

GENERAL SPECIFICATIONS

- A. THE WORK COVERED BY THESE SPECIFICATIONS CONSISTS OF FURNISHING LABOR, EQUIPMENT, MATERIALS AND SUPPLIES AS NECESSARY FOR THE COMPLETE AND SATISFACTORY OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS.
B. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA, STATE BUILDING CODE, AND ANY OTHER LOCAL REQUIREMENTS THAT MAY APPLY.
C. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL ELECTRICAL PERMITS AND INSPECTION FEES.
D. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY THE UNDERWRITERS LABORATORIES INC. OR BY A STATE APPROVED THIRD PARTY TESTING AGENCY FOR THE USE INTENDED WHERE A STANDARD FOR SUCH MATERIALS AND USE EXISTS.
E. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CATALOG DATA IN ELECTRONIC FORMAT FOR ALL ELECTRICAL ITEMS IN THE SCOPE OF WORK, INCLUDING, BUT NOT LIMITED TO, RACEWAYS, BOXES, FITTINGS, CONDUCTORS, LUMINAIRES, LAMPS, BALLASTS, WIRING DEVICES, SAFETY SWITCHES, DISCONNECTS, TRANSFORMERS, PANELBOARDS, FIRE ALARM, TELECOMMUNICATIONS, ETC. FOR APPROVAL AS APPLICABLE FOR THE PROJECT.
F. ALL COST ASSOCIATED WITH SUBSTITUTED EQUIPMENT TO COMPLY WITH THE BASIS OF DESIGN, INCLUDING PROVISIONS MAINTENANCE ACCESS, CLEARANCE, CONDUIT, WIRING, REPLACEMENT OF OTHER SYSTEM COMPONENTS, BUILDING ALTERATIONS, METHODS, ETC., SHALL BE INCLUDED IN THE BIDDING BASE BID.
G. ONE COMPLETE SET OF THE LATEST CONSTRUCTION PLANS OF ALL TRADES SHALL BE MAINTAINED AT THE JOB SITE.
H. COMPLETELY ADEQUATE HOUSING SHALL BE PROVIDED FOR ALL MATERIALS STORED ON JOB SITE.
I. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT.
J. WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED.
K. PROVIDE ALL CUTTING AND PATCHING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE DONE.
L. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS UNLESS OTHERWISE NOTED.
M. ALL ELECTRICAL JUNCTION BOXES, SWITCHGEAR, CABLING, VOICE/DATA OUTLETS, LOW VOLTAGE CABINETS, EMERGENCY RECEPTACLES, ETC. SHALL BE LABELED ACCORDING TO PANEL AND CIRCUIT NUMBER.
N. UPON COMPLETION OF WORK, CONTRACTOR SHALL PRESENT ENGINEER WITH CERTIFICATE OF APPROVAL FROM LOCAL INSPECTOR AND/OR AUTHORITY HAVING JURISDICTION BEFORE WORK WILL BE APPROVED FOR FINAL PAYMENT.
O. CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS ACCEPTED BY THE OWNER.
P. THE WORD "PROVIDE" MEANS THAT THIS CONTRACTOR SHALL FURNISH, FABRICATE, ERECT, CONNECT, AND COMPLETELY INSTALL SYSTEMS IN PROPER OPERATING CONDITION.
Q. THE WORD "CONNECT" MEANS THAT THIS CONTRACTOR SHALL OVERCURRENT PROTECTION AND WIRING REQUIRED TO PLACE THE EQUIPMENT AND SYSTEMS IN PROPER OPERATING CONDITION AND TO COMPLY WITH CODE REQUIREMENTS.
R. CONTRACTOR SHALL COORDINATE THE ROUGH-IN OF ALL OUTLET LOCATIONS WITH ARCHITECTURAL PLANS, FINISH ELEVATIONS, AND MILLWORK.
S. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING THERMAL POWER AND LIGHTING FOR ALL TRADES.
T. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY.
U. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY.

PART 1 GENERAL

- A. CONDUCTORS SHALL BE MANUFACTURED BY SOUTHWIRE (SIMPULL), ENCORE (SUPERSLICK), UNITED COPPER (SLK), CERRO (SLP), OR APPROVED EQUAL, "PRE-LUBRICATED" BY THE MANUFACTURER.
B. ALL CONDUCTORS SHALL BE COPPER, RATED 75 C WET/DRY EXCEPT WHERE OTHERWISE NOTED OR REQUIRED BY U.L. OR OTHER CODES.
C. ALL CONDUCTORS SHALL BE SINGLE INSULATED CONDUCTOR, THHN/THWN-2. SIZES #10 AWG AND SMALLER SHALL BE SOLD, SIZES #8 AWG AND LARGER SHALL BE STRANDED.
D. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.
E. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS AND BROWN/ORANGE/YELLOW FOR 277/480 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY. NEUTRAL SHALL BE WHITE FOR 120/208 VOLT SYSTEMS AND NATURAL GRAY FOR 277/480 VOLT SYSTEMS. GROUND CONDUCTOR SHALL BE GREEN ON ALL SYSTEMS. ALL CONDUCTOR SIZES SHALL HAVE COLOR-CODED INSULATION. THE USE OF TAPE OR RED TAPE ON LARGER WIRE SIZES SHALL NOT BE ALLOWED.
F. INSULATION SHALL BE DUAL RATED TYPE THHN/THWN-2 FOR FEEDERS AND BRANCH CIRCUITS. FIXTURE TAPS SHALL BE #12 THHN/THWN-2 IN FLEX WITH GREEN #12 AWG GROUNDING CONDUCTOR.
G. ALL CONDUCTORS SHALL BE IN CONDUIT.
H. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.
I. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE ALLOWED, UNLESS EXPLICITLY INDICATED ON THE DRAWINGS OR WHEN POWERING MODULAR SYSTEMS FURNITURE.
J. WHERE MULTI-WIRE BRANCH CIRCUITS ARE EXPLICITLY INDICATED ON THE DRAWINGS, THEY SHALL BE INSTALLED PER NEC 210.4.
K. JOINTS IN #10 AWG AND SMALLER SHALL BE MADE UP WITH CRIMPED CONNECTORS WITH INSULATING CAPS (NO TAPS) OR WIRENUTS (MAXIMUM OF 3 CONDUCTORS UNDER ANY CONNECTOR OR WIRENUT). LARGER WIRE SHALL USE SPLIT BOLTS OR BOLTED CLAMPS.
L. ALL WIRING LUGS THROUGHOUT THE PROJECT, INCLUDING, BUT NOT LIMITED TO, BREAKERS, PANELBOARDS/SWITCHBOARD LUGS, SAFETY SWITCH LUGS, MOTOR STARTER LUGS, TRANSFORMERS LUGS, WIRING DEVICE TERMINALS, AND ALL EQUIPMENT LUGS/TERMINALS SHALL BE RATED FOR USE WITH 75 DEGREE INSULATED CONDUCTORS AT THEIR 75 DEGREE AMPACITY AND SHALL BE SIZED AND SELECTED TO MATCH THE CONDUCTOR SIZE AND MATERIAL.
M. CIRCUIT JOINTS SHALL NOT BE MADE ON DEVICE TERMINALS.

PART 2 PRODUCTS

- 1.01 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 3 EXECUTION

- 1.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
1. DO NOT FASTEN SUPPORTS TO PIPES, DUCTS, MECHANICAL EQUIPMENT, OR CONDUIT.
2. OBTAIN PERMISSION FROM ARCHITECT BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.
B. RIGIDLY WELD SUPPORT MEMBERS OR USE HEXAGON-HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. USE SPRING LOCK WASHERS UNDER ALL NUTS.
C. INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
D. IN WET AND DAMP LOCATIONS USE STEEL CHANNEL SUPPORTS TO STAND CABINETS AND PANELBOARDS 1 INCH (25 MM) OFF WALL.
E. USE SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 4 EXECUTION

- 1.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
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E. USE SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.
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A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 5 EXECUTION

- 1.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
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1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 6 EXECUTION

- 1.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
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C. INSTALL SURFACE-MOUNTED CABINETS AND PANELBOARDS WITH MINIMUM OF FOUR ANCHORS.
D. IN WET AND DAMP LOCATIONS USE STEEL CHANNEL SUPPORTS TO STAND CABINETS AND PANELBOARDS 1 INCH (25 MM) OFF WALL.
E. USE SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 7 EXECUTION

- 1.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
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2. OBTAIN PERMISSION FROM ARCHITECT BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.
B. RIGIDLY WELD SUPPORT MEMBERS OR USE HEXAGON-HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. USE SPRING LOCK WASHERS UNDER ALL NUTS.
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E. USE SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 8 EXECUTION

- 1.01 INSTALLATION
A. INSTALL HANGERS AND SUPPORTS AS REQUIRED TO ADEQUATELY AND SECURELY SUPPORT ELECTRICAL SYSTEM COMPONENTS, IN A NEAT AND WORKMANLIKE MANNER, AS SPECIFIED IN NECA 1.
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2. OBTAIN PERMISSION FROM ARCHITECT BEFORE DRILLING OR CUTTING STRUCTURAL MEMBERS.
B. RIGIDLY WELD SUPPORT MEMBERS OR USE HEXAGON-HEAD BOLTS TO PRESENT NEAT APPEARANCE WITH ADEQUATE STRENGTH AND RIGIDITY. USE SPRING LOCK WASHERS UNDER ALL NUTS.
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E. USE SHEET METAL CHANNEL TO BRIDGE STUDS ABOVE AND BELOW CABINETS AND PANELBOARDS RECESSED IN HOLLOW PARTITIONS.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

ELECTRICAL IDENTIFICATION

- 1.01 SECTION INCLUDES
A. NAMEPLATES AND LABELS.
B. WIRE AND CABLE MARKERS.
C. CONDUIT MARKERS.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 2 PRODUCTS

- 2.01 NAMEPLATES AND LABELS
A. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, BLACK LETTERS OR WHITE BACKGROUND.
B. LOCATIONS:
1. EACH ELECTRICAL DISTRIBUTION AND CONTROL EQUIPMENT ENCLOSURE.
2. CONDUIT MARKERS
A. LOCATION: FURNISH MARKERS FOR EACH CONDUIT LONGER THAN 6 FEET (2 M).
B. SPACING: 20 FEET (6 M) ON CENTER.
2.02 UNDERGROUND WARNING TAPE
A. DESCRIPTION: 4 INCH (100 MM) WIDE PLASTIC TAPE, DETECTABLE TYPE COLORED RED WITH SUITABLE WARNING LEGEND DESCRIBING BURIED ELECTRICAL LINES.

PART 3 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 4 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 5 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 6 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 7 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 8 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 9 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 10 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 11 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 12 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 13 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 14 EXECUTION

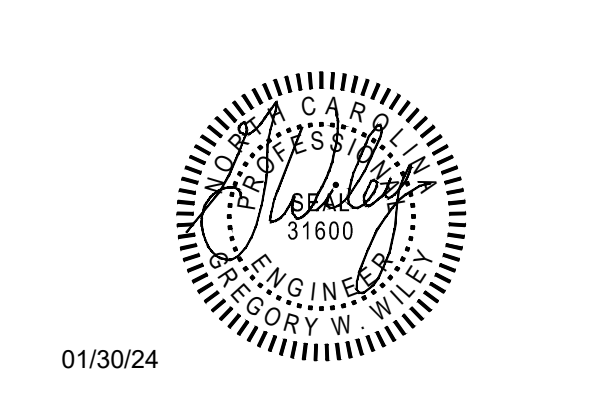
- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.

PART 15 EXECUTION

- 1.01 SECTION INCLUDES
A. CONDUIT, FITTINGS AND CONDUIT BODIES.
1.02 QUALITY ASSURANCE
A. CONFORM TO REQUIREMENTS OF NFPA 70.
B. PRODUCTS: LISTED AND CLASSIFIED BY UNDERWRITERS LABORATORIES INC. AS SUITABLE FOR THE PURPOSE SPECIFIED AND INDICATED.



4539 HEDGEMORE DRIVE, SUITE 101 CHARLOTTE, NC 28209 704.890.2653 WWW.OSSASTUDIO.COM



PROJECT TEAM

General Contractor ECCLESIA CONSTRUCTION www.eccconstruction.com 803.327.5670



Table with 2 columns: Date, Description. Rows include 12/15/2023 DESIGN DEVELOPMENT DWGS, 12/22/2023 DESIGN DEVELOPMENT DWGS, 01/24/2024 REVIEW DWGS, 01/30/2024 ISSUED FOR CONSTRUCTION.

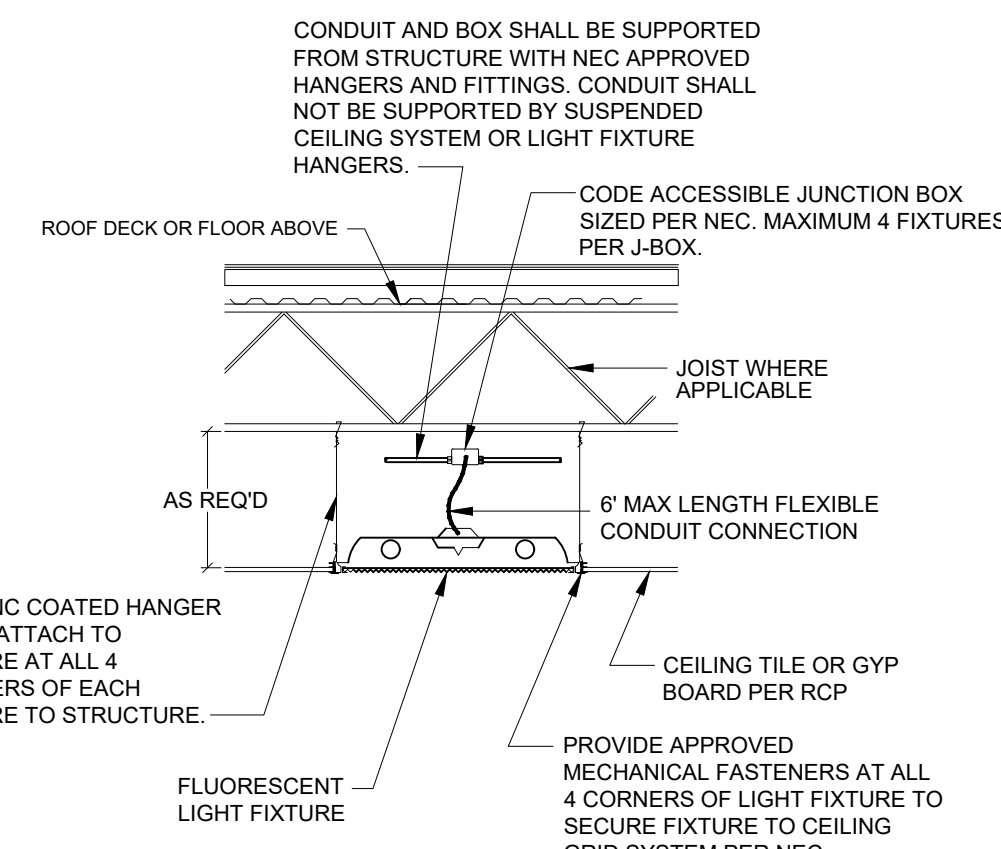
Table with 2 columns: Project Name, Client. Project Name: 3D COMMUNITY CHURCH. Client: 658 GRAHAM ROAD SANFORD NC 27311



Table with 2 columns: Project Number, Description. Project Number: 23024-00. Description: SPECIFICATIONS - ELECTRICAL

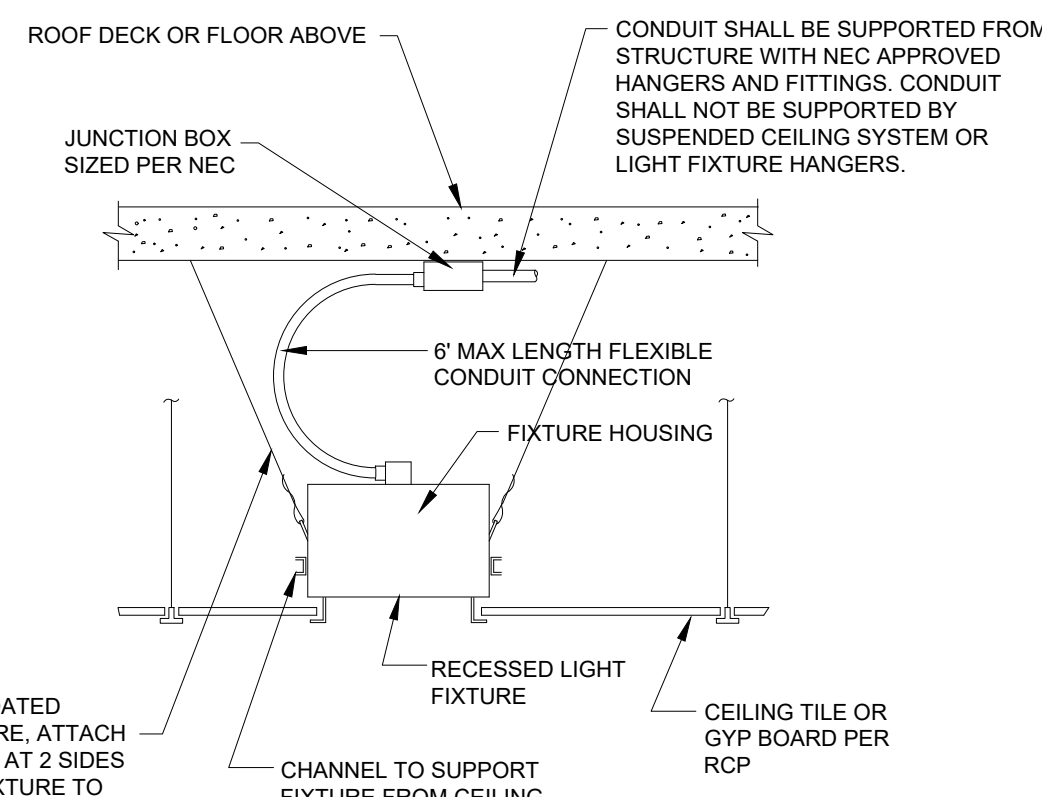
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E00.02



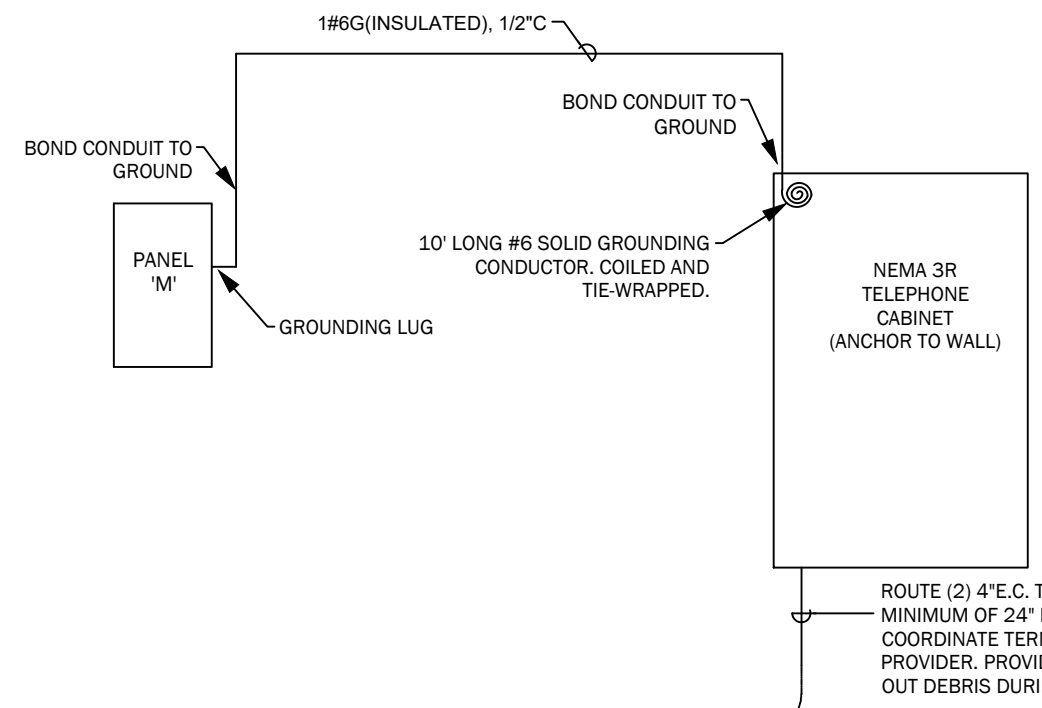
1 TYPICAL LAY-IN LUMINAIRE INSTALLATION DETAIL
NO SCALE

NOTES:
1. WHERE ROOF DECKING IS THE IS THE ALLOWABLE SUPPORT STRUCTURE, AND PATHWAY SYSTEM IS NOT IMC OR RMC, THE MINIMUM DISTANCE FROM ROOF DECKING SHALL BE 1.5' FOR ALL BOXES AND CONDUIT.

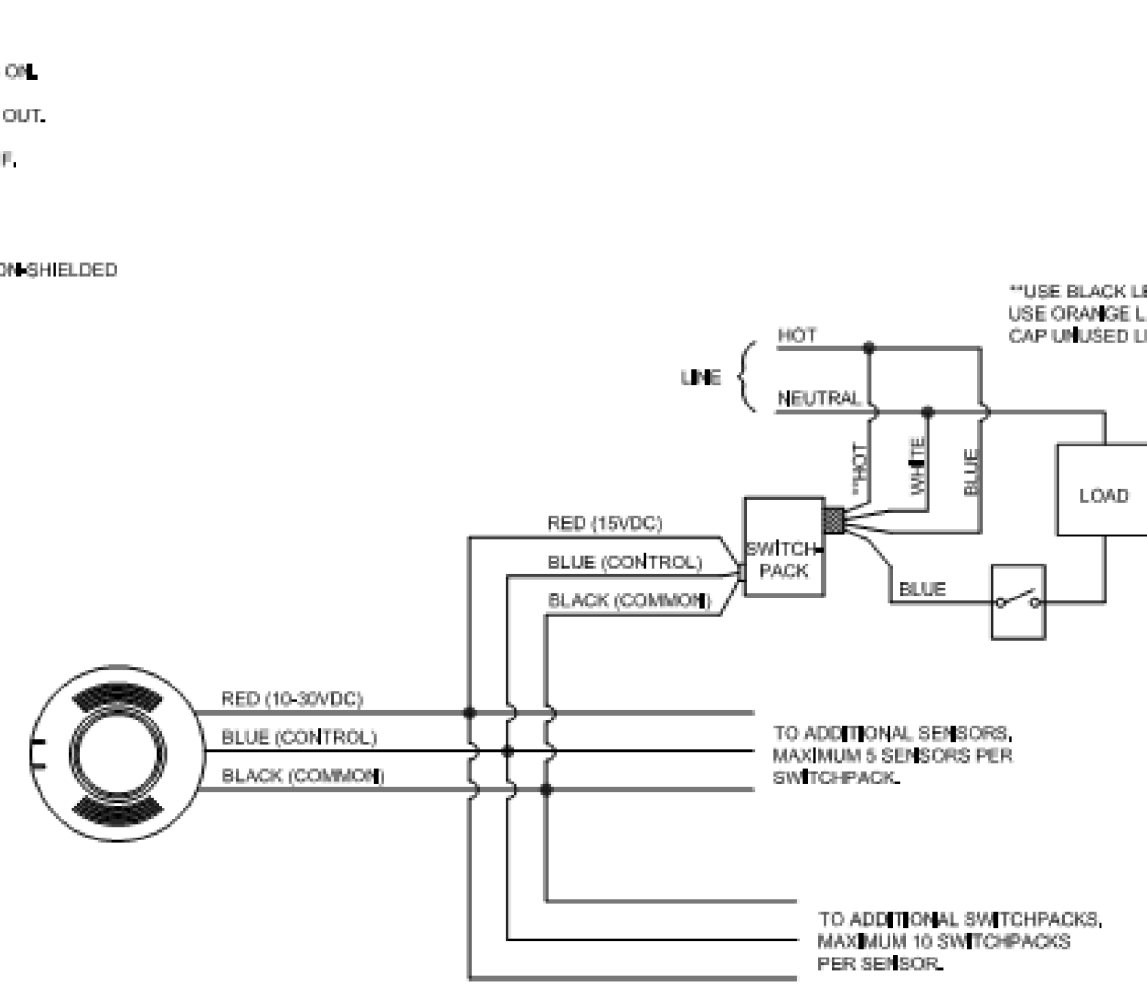


4 TYPICAL DOWNLIGHT INSTALLATION DETAIL
NO SCALE

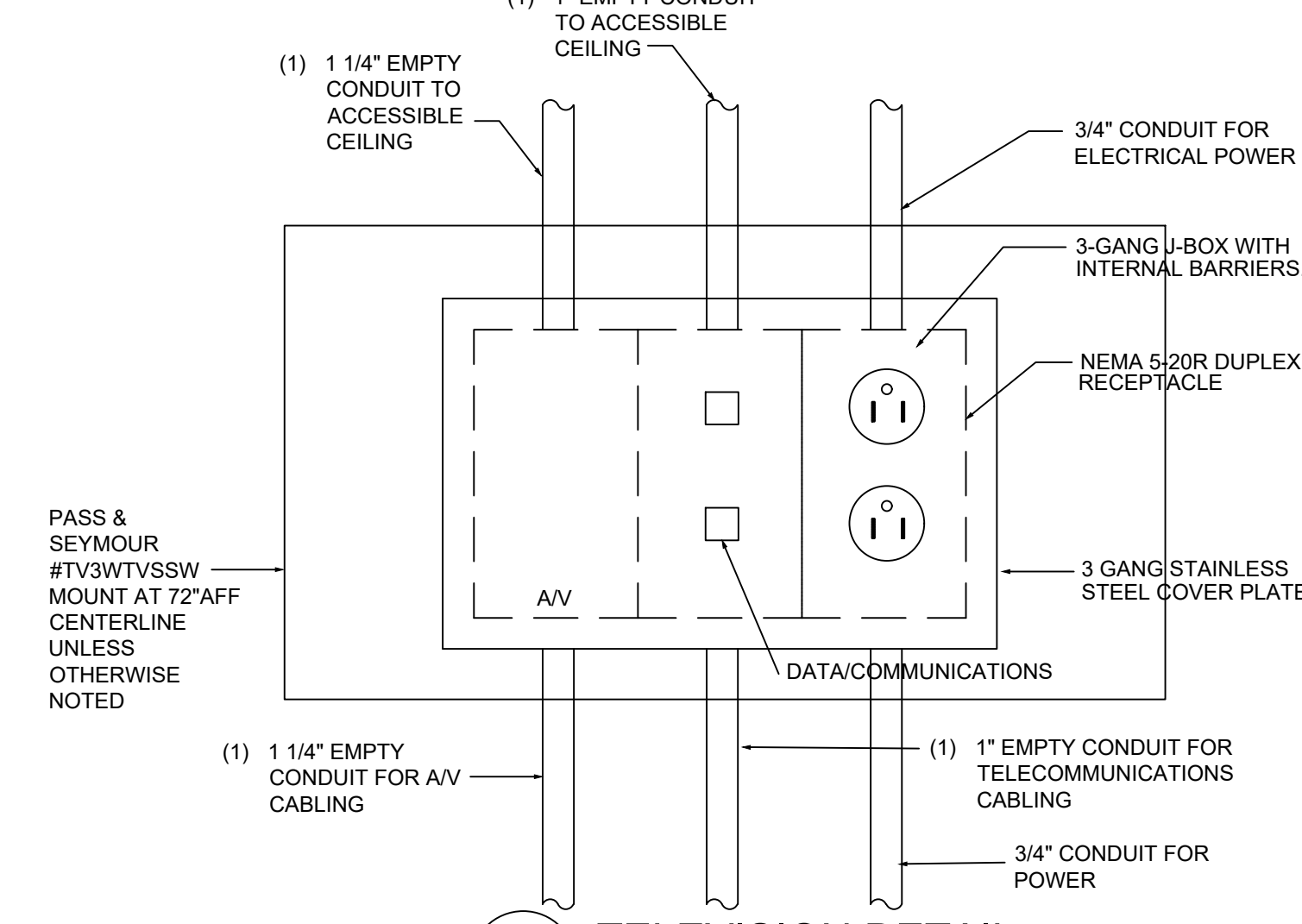
NOTES:
1. WHERE ROOF DECKING IS THE IS THE ALLOWABLE SUPPORT STRUCTURE, AND PATHWAY SYSTEM IS NOT IMC OR RMC, THE MINIMUM DISTANCE FROM ROOF DECKING SHALL BE 1.5' FOR ALL BOXES AND CONDUIT.



7 TELEPHONE RISER DIAGRAM
NO SCALE

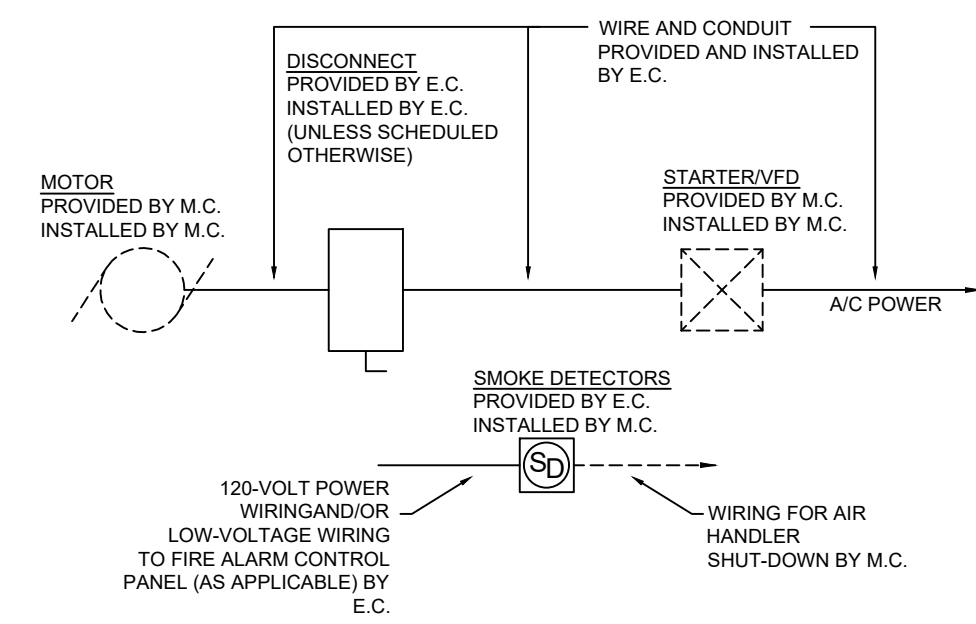


10 STANDARD SWITCHING WITH CEILING MOUNTED OCCUPANCY SENSOR DETAIL
NO SCALE



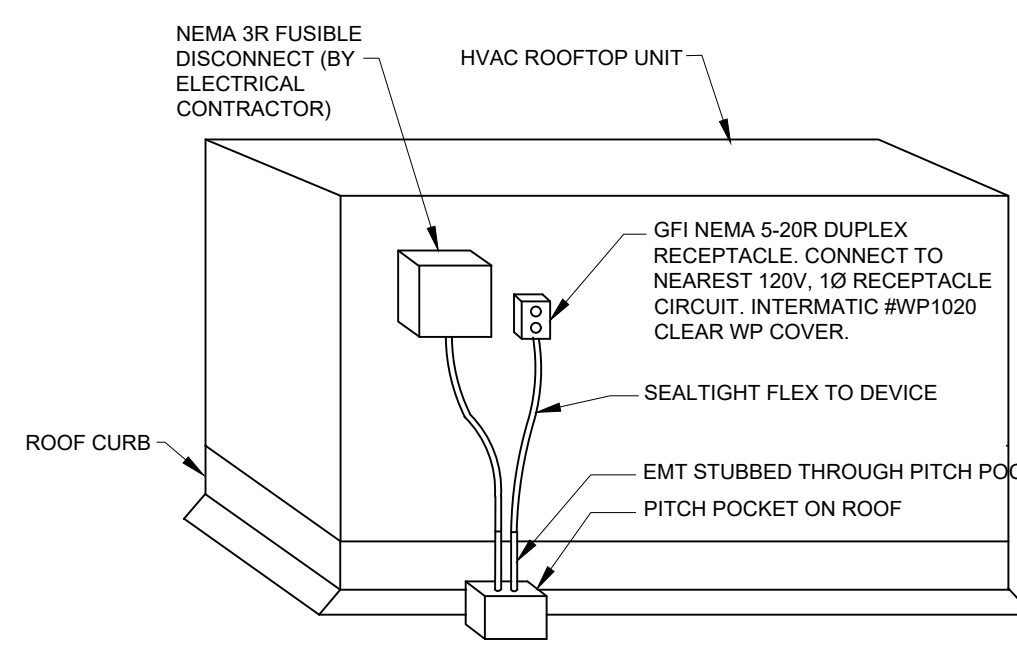
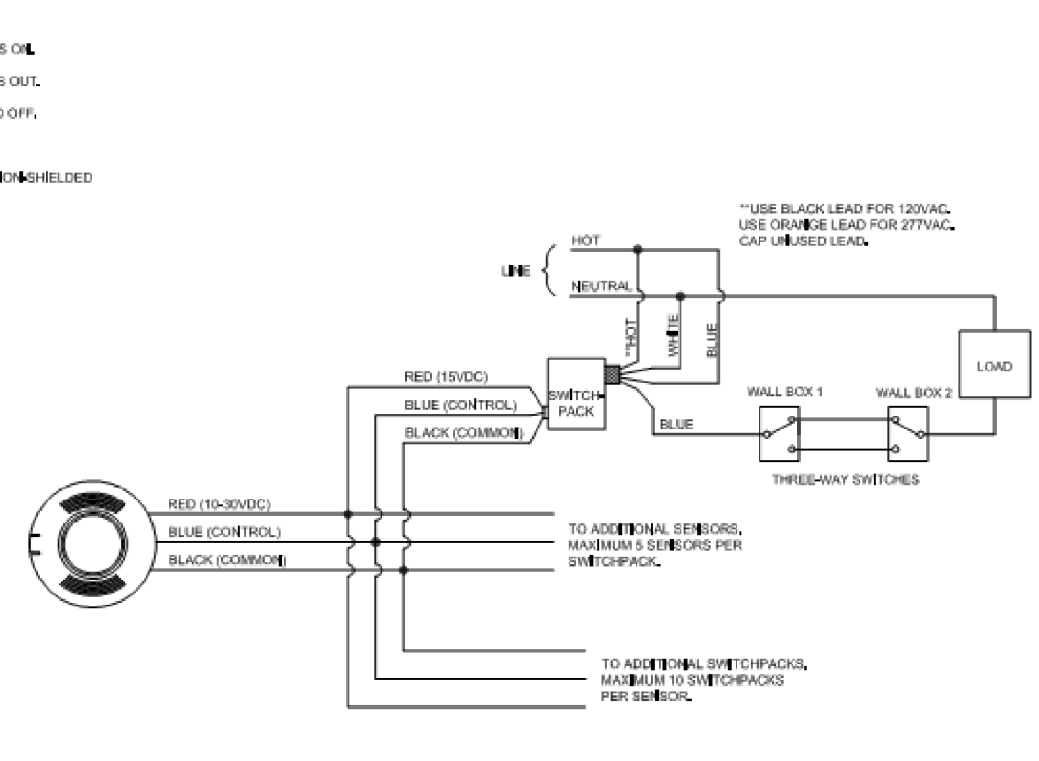
2 TELEVISION DETAIL
NO SCALE

NOTES:
1. FOR THE DINING ROOM TELEVISIONS, THESE DEVICES SHALL BE MOUNTED 24" ABOVE THE DOOR OPENING.
2. ALL CONDUITS SHALL BE INSTALLED WITH BUSHINGS AND PULLSTRINGS.



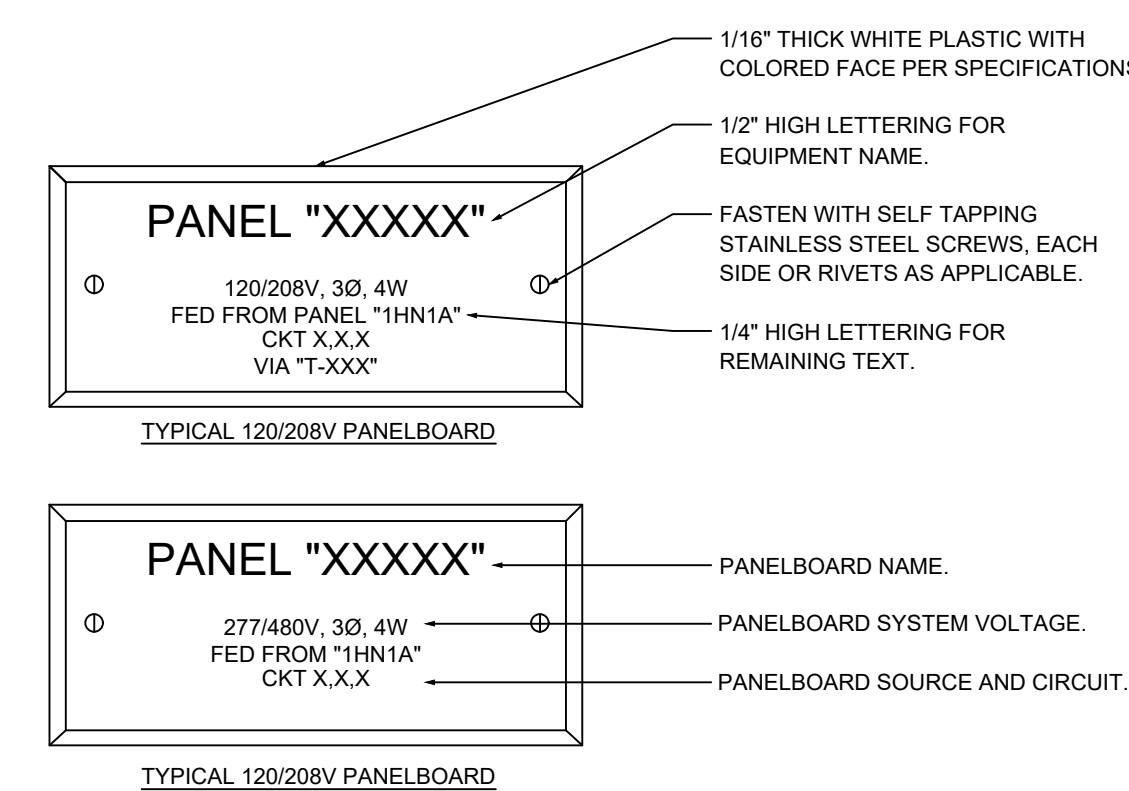
5 MECHANICAL / ELECTRICAL COORDINATION
NO SCALE

6 3-WAY SWITCHING W/ CEILING MOUNTED OCC SENSOR
NO SCALE

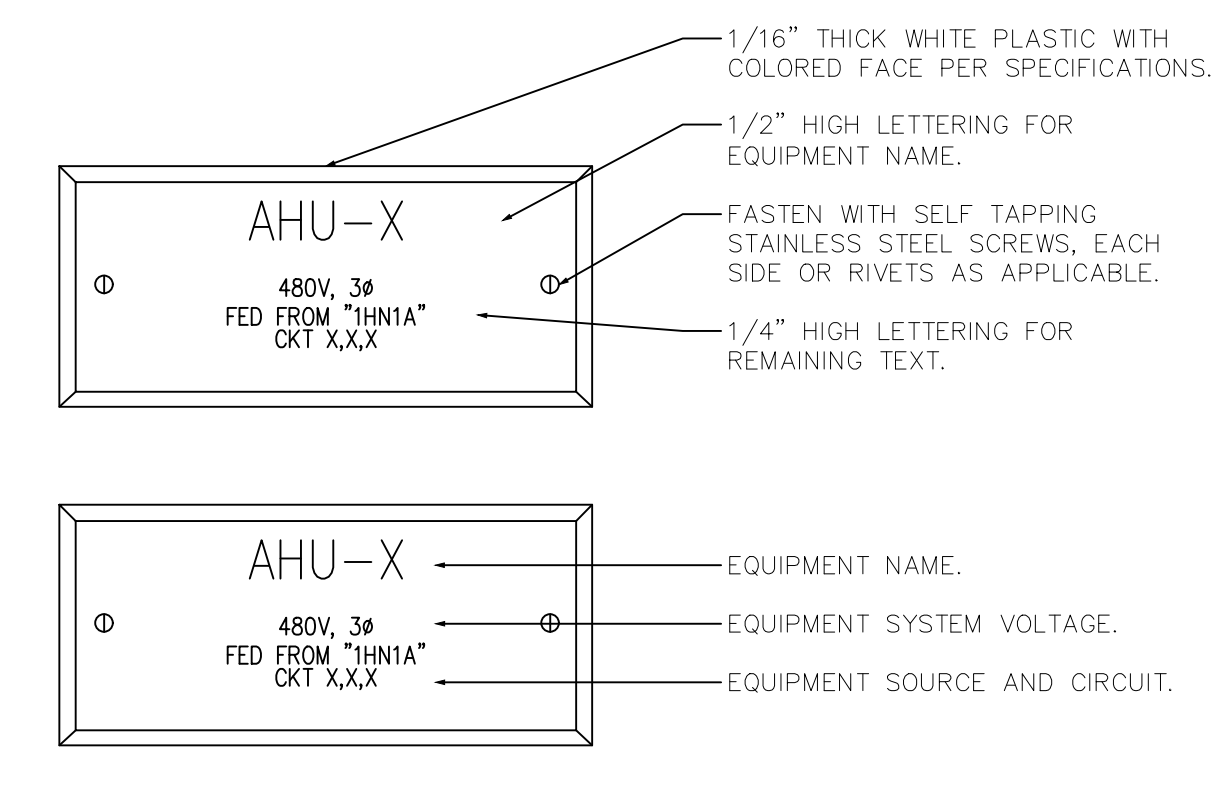


8 ROOFTOP RECEPTACLE DETAIL
NO SCALE

NOTE: TYPICAL FOR ALL ROOF MOUNTED HVAC EQUIPMENT.

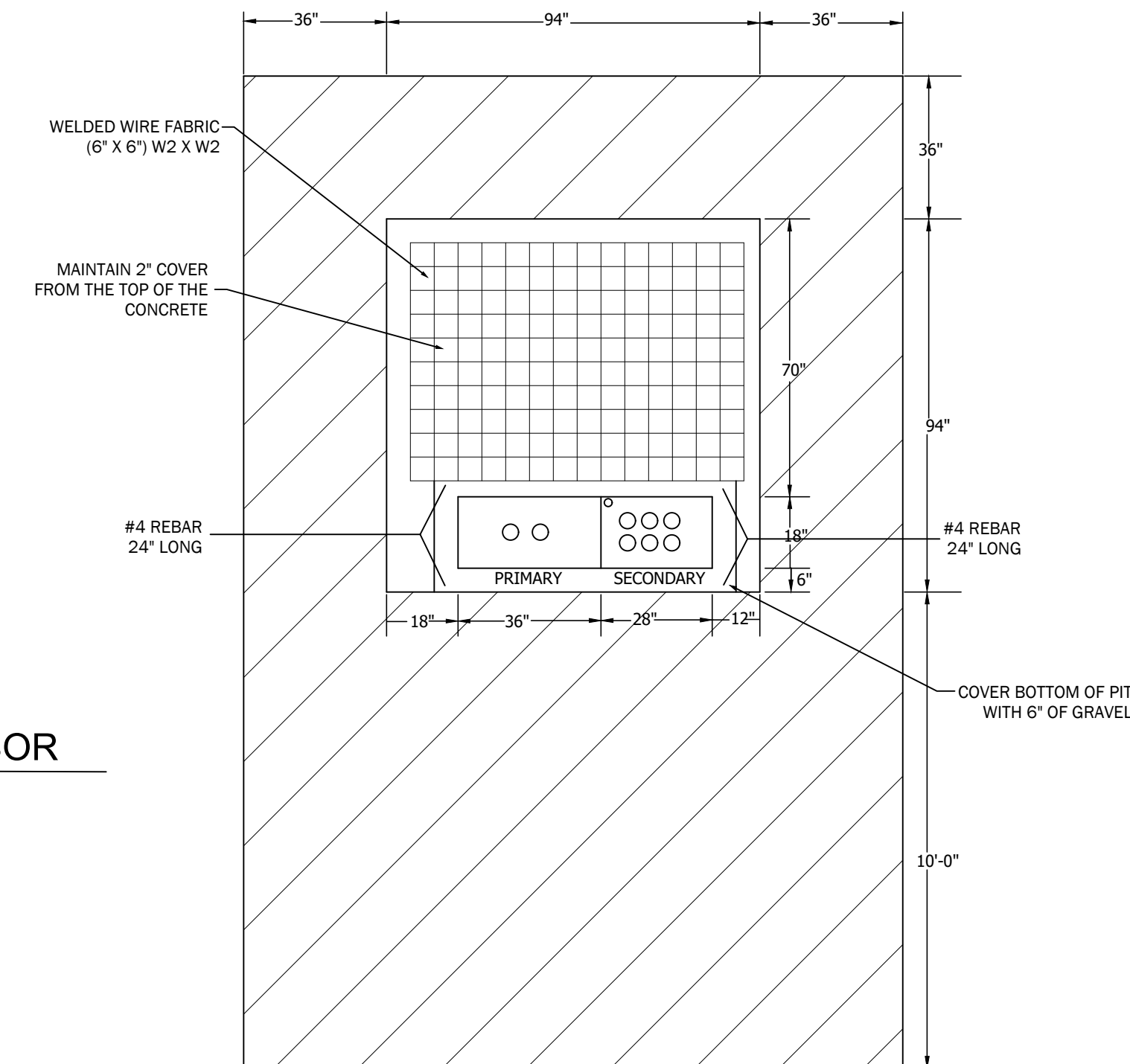


PANELBOARD NAMEPLATES



EQUIPMENT NAMEPLATES

3 TYPICAL NAMEPLATE DETAIL
NO SCALE

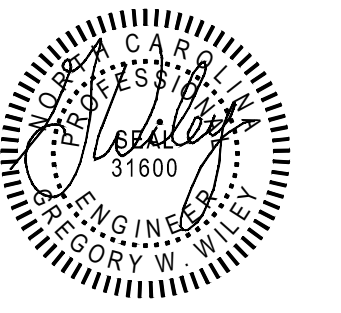


9 PAD MOUNTED UTILITY TRANSFORMER DETAIL
NO SCALE

PADMOUNT TRANSFORMER GENERAL NOTES:
(APPLIES TO THIS DETAIL ONLY)

- PAD SHALL BE A MINIMUM OF 5.5" THICK.
- SHADED AREA ABOVE THE PAD INDICATES MINIMUM CLEARANCE FROM OBSTRUCTIONS. CLEARANCE STANDARD FOR MINIMUM DISTANCES FROM SIDES AND BACK OF CONCRETE WITH YORK ELECTRIC PRIOR TO ROUGH-IN. 10" MINIMUM FROM FRONT OF CONCRETE.
- THIS DETAIL INDICATES GENERAL REQUIREMENTS. CONTRACTOR SHALL OBTAIN SPECIFIC PAD SPECIFICATIONS FROM YORK ELECTRIC AND INSTALL PIT AND PAD AS DIRECTED.
- REFER TO POWER RISER DIAGRAM FOR ACTUAL QUANTITY OF SECONDARY CONDUITS TO BE ROUTED FROM THE SECONDARY OF THIS PAD.

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01/30/24

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PROJ# 23253

Date Description

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Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

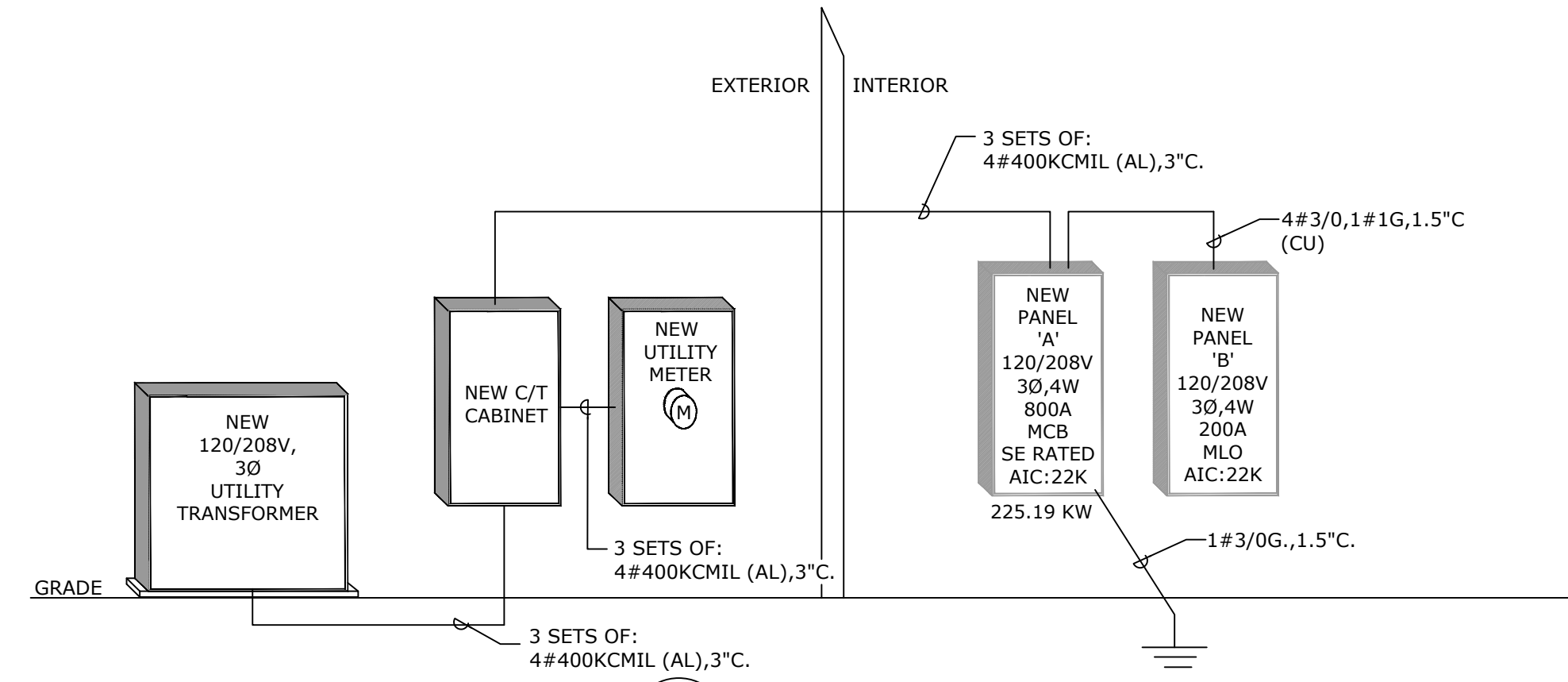
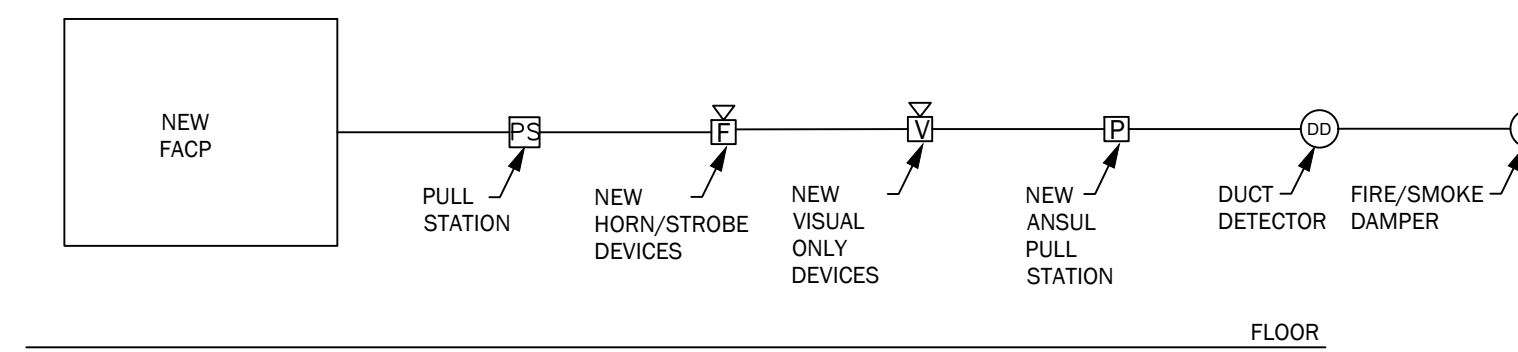
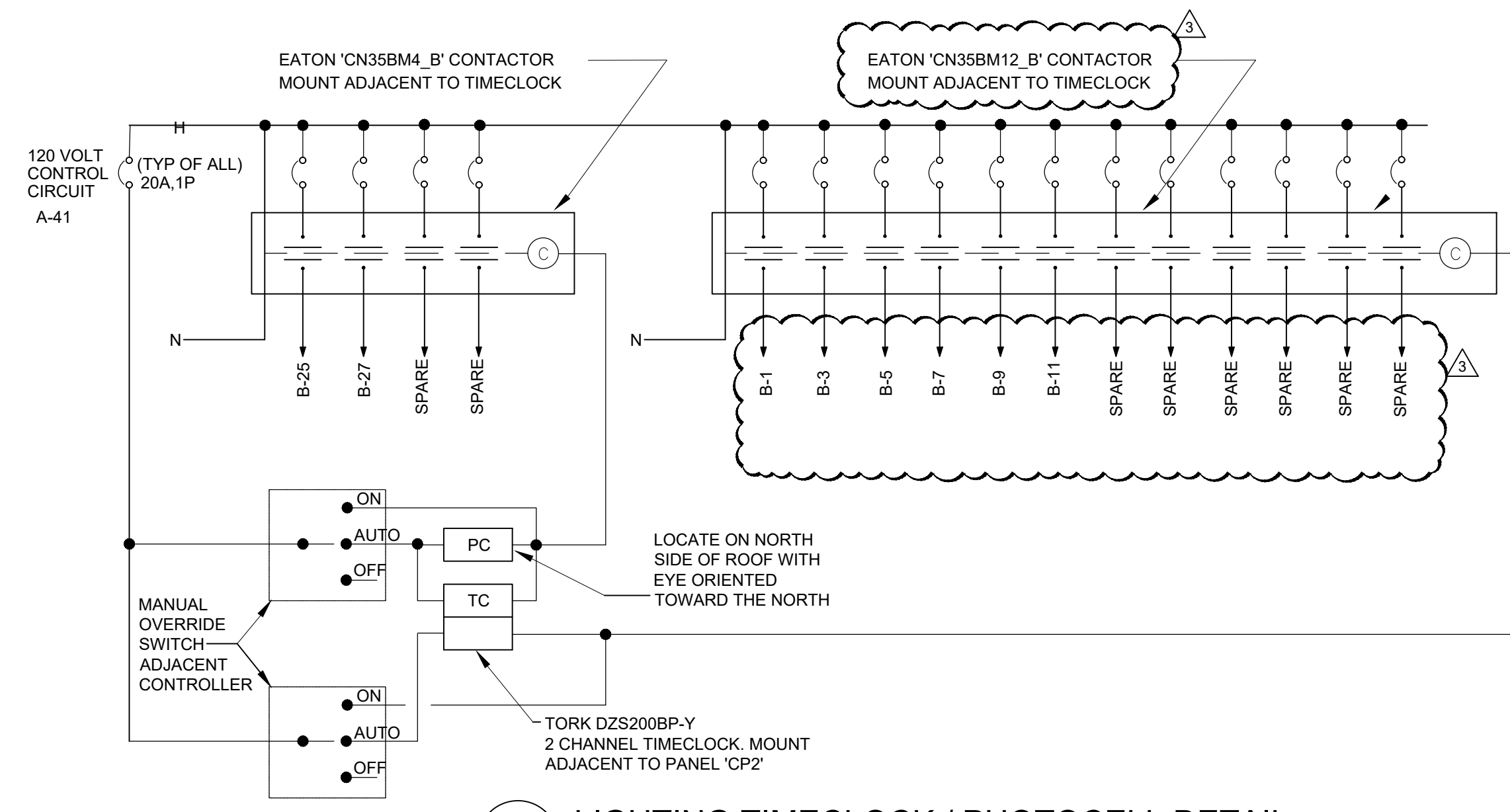
Description

DETAILS - ELECTRICAL

Scale

NA

E00.03



FIRE ALARM SYSTEM MATRIX

SEQUENCE OF OPERATION:
 UPON CHANGE IN STATUS OF ANY DEVICE ON THE SYSTEM INDICATED IN THIS CHART, THE FIRE ALARM CONTROL PANEL SHALL ACTIVATE AUDIBLE CHANGE INDICATORS AND DISPLAY THE SYSTEM POINT NUMBER, POINT DESCRIPTION, AND MESSAGE ASSOCIATED WITH THE POINT.
 ACTIVATION OF ANY WATERFLOW DEVICE, SMOKE DETECTOR, OR OTHER INITIATING DEVICE WILL CAUSE THE FUNCTION TO OCCUR NOTED IN THIS CHART.

	BUILDING SYSTEM OUTPUTS										CENTRAL COMM			
MANUAL FIRE ALARM PULL BOXES	X	X										X	X	X
BUILDING SMOKE DETECTOR	X	X										X	X	X
DUCT SMOKE DETECTOR												X	X	X
SPRINKLER WATER FLOW	X	X										X	X	X
SPRINKLER TAMPER												X	X	X
NOTIFICATION DEVICE SHORT CIRCUIT												X	X	X
OPEN CIRCUIT												X	X	X
GROUND FAULT												X	X	X
FIRE ALARM A.C. POWER FAILURE												X	X	X
FIRE ALARM SYSTEM LOW BATTERY												X	X	X
FIRE PUMP RUNNING												X	X	X
FIRE PUMP COMMON TROUBLE												X	X	X
FIRE PUMP POWER FAILURE/PHASE REVER.												X	X	X

ENERGY STATEMENT
 CODE SUMMARY PER THE REQUIREMENTS OF THE 2018 NORTH CAROLINA ENERGY CONSERVATION CODE

ELECTRICAL DESIGN
 (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE: **PERSCRIPTIVE**

LIGHTING SCHEDULE (EACH FIXTURE TYPE)
 LAMP TYPE REQUIRED IN FIXTURE REFER TO LIGHTING FIXTURE SCHEDULE
 NUMBER OF LAMPS IN FIXTURE REFER TO LIGHTING FIXTURE SCHEDULE
 BALLAST TYPE USED IN THE FIXTURE REFER TO LIGHTING FIXTURE SCHEDULE
 NUMBER OF BALLASTS IN FIXTURE REFER TO LIGHTING FIXTURE SCHEDULE
 TOTAL WATTAGE PER FIXTURE REFER TO LIGHTING FIXTURE SCHEDULE
 TOTAL INTERIOR WATTAGE * 7388 SPECIFIED 10170 ALLOWED
 TOTAL EXTERIOR WATTAGE 237 SPECIFIED 650 ALLOWED

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
 (WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)
 C406 2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
 C406 3 REDUCED LIGHTING POWER DENSITY
 C406 4 ENHANCED DIGITAL LIGHTING CONTROLS
 C406 5 ON-SITE RENEWABLE ENERGY
 C406 6 DEDICATED OUTDOOR AIR SYSTEM
 C406 7 REDUCED ENERGY USE IN SERVICE WATER HEATING

* WHOLE BUILDING OR SPACE BY SPACE

NEW PANEL A

VOLTAGE: 120/208 3 PHASE, 4 WIRE
 AMPS: 800 MCB
 TOTAL LOAD: 217.1 KVA
 MOUNTING: SURFACE
 AIC RATING: 22,000

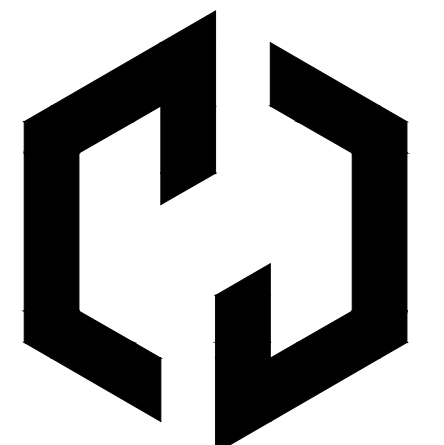
No.	CIRCUIT DESCRIPTION	LOAD (KVA)						BREAKER	PHASE	TRIP	MISC	KITCH	A/C	MTR	RCPT	CONT	CIRCUIT DESCRIPTION	No.		
		CONT	RCPT	MTR	A/C	KITCH	MISC													
1		5.20	2.52	0.00	0.00	5.00	1.60	200	3	15.98							EUH-1	2		
3	PANEL 'B'	5.00	3.06	0.00	0.00	2.50	0.00											4		
5		4.00	2.88	0.20	0.00	2.50	0.00											6		
7					14.69				16.19									8		
9	RTU-1				14.69			175	3	16.19								10		
11					15.74				16.28									12		
13					15.74			175	3	16.64								14		
15					15.74				16.64									16		
17					15.74				16.64									18		
19					15.74			175	3	16.82								20		
21	RTU-3				15.74				16.82									22		
23					15.74				16.10									24		
25					15.74				0.36									26		
27					15.74				0.36									28		
29	SPARE				15.74			70	3	0.36								30		
31					6.62				7.12									32		
33	RTU-5				6.62			70	3	7.12								34		
35					6.62				7.12									36		
37	IT QUAD				0.72			20	1	3.72								38		
39	FACP (RED BREAKER)				0.50			20	1	3.50								40		
41	TIMECLOCK				0.50			20	1	3.50								42		
LOADS W/ NEC 220 DEMAND FACTORS (KVA)		TOTAL						76.47	72.85	70.15		21.08	10.00	158.38	0.70	15.12	14.20	CONNECTED KVA	219.476	
A PHASE		6.50	5.22	0.00	52.79	3.25	8.26	NEC 220 DEMAND FACTORS											PANEL NOTES	
B PHASE		6.25	5.40	0.00	52.79	1.63	7.16	CONTINUOUS: 125% LOAD											1. BREAKER FRAME SHALL BE AS REQUIRED PER PANEL AIC RATING.	
C PHASE		5.00	4.50	0.83	52.79	1.63	5.66	RECEPTACLES: 100% 1ST 10 KW + 50% REMAINING											2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.	
TOTALS FOR PANEL		17.75	12.56	0.83	158.38	6.50	21.08	MOTORS: 125% LARGEST MOTOR + 100% REMAINING											3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.	
DESIGN LOAD (KVA)		76.02						A/C: 100% LOAD											4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.	
FOR LARGEST PHASE		633.05 A						KITCHEN: 65% LOAD											5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.	
DESIGN LOAD (KVA) FOR PANEL		217.09						MISC: 100% LOAD											6. PROVIDE METAL DIRECTORY FRAME.	
DESIGN LOAD (KVA) FOR PANEL		602.58 A																		

NEW PANEL B

VOLTAGE: 120/208 3 PHASE, 4 WIRE
 AMPS: 200 MCB
 TOTAL LOAD: 23.0 KVA
 MOUNTING: SURFACE
 AIC RATING: 22,000

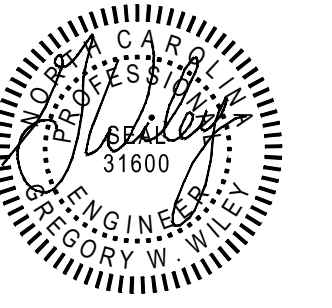
No.	CIRCUIT DESCRIPTION	LOAD (KVA)						BREAKER	PHASE	TRIP	MISC	KITCH	A/C	MTR	RCPT	CONT	CIRCUIT DESCRIPTION	No.		
		CONT	RCPT	MTR	A/C	KITCH	MISC													
1	SANCTUARY LTG	0.61						20	1	0.61								2		
3	NARTHEX/CORR. LTG	0.90						20	1	0.90								4		
5	NURSERY/CLASSRM LTG	0.13						20	1	0.13								6		
7	BATH/SHELL LTG	0.45						20	1	0.45								8		
9	STAGE LTG	1.50						20	1	1.50								10		
11	BACK STAGE LIGHTING	0.24						20	1	0.24								12		
13	SPARE							20	1	0.00								14		
15	SPARE							20	1	0.00								16		
17	SPARE							20	1	0.00								18		
19	SPARE							20	1	0.00								20		
21	SPARE							20	1	0.00								22		
23	SPARE							20	1	0.00								24		
25	SIGNAGE	1.20						20	1	1.20								26		
27	EXTERIOR LTG	0.24						20	1	1.68								28		
29	FIRE/SMOKE DAMPER							20	1	1.10						1.44		30		
31	STAGE REC	0.54						20	1	1.34								32		
33	STAGE FLOOR REC	0.36						20	1	0.54							0.18	34		
35	STAGE FLOOR REC	0.36						20	1	0.72							0.36	36		
37	STAGE FLOOR REC	0.36						20	1	1.08							0.72	38		
39	STAGE FLOOR REC	0.36						20	1	0.36								40		
41	STAGE FLOOR REC	0.36						20	1	1.40							0.54	42		
43	FIRE/SMOKE DAMPER							20	1	0.74							0.54	44		
45	FIRE/SMOKE DAMPER							20	1	0.70								46		
47	SPARE							20	1	0.72								48		
49	SPARE							20	1	0.72								50		
51	SPARE							20	1	0.54								52		
53	SPARE							20	1	0.00								54		
55	SPARE							20	1	1.66								56		
57	SPARE							20	1	1.66								58		
59	SPARE							20	1	1.66								60		
LOADS W/ NEC 220 DEMAND FACTORS (KVA)		TOTAL						7.80	7.88	5.97		8.28	0.00	0.00	0.00	8.10	5.27	CONNECTED KVA	21.65	
A PHASE		2.83	2.88	0.00	0.00	0.00	2.66	NEC 220 DEMAND FACTORS											PANEL NOTES	
B PHASE		3.30	2.88	0.00	0.00	0.00	2.36	CONTINUOUS: 125% LOAD											1. BREAKER FRAME SHALL BE AS REQUIRED PER PANEL AIC RATING.	
C PHASE		0.46	2.34	0.00	0.00	0.00	3.26	RECEPTACLES: 100% 1ST 10 KW + 50% REMAINING											2. SHALL BE FULLY RATED - SERIES RATINGS NOT ALLOWED.	
TOTALS FOR PANEL		6.59	8.10	0.00	0.00	0.00	8.28	MOTORS: 125% LARGEST MOTOR + 100% REMAINING											3. ALL BUSSING, INCL GND AND NEUTRAL, SHALL BE COPPER.	
DESIGN LOAD (KVA)		8.54						A/C: 100% LOAD											4. ALL INCOMING PANEL & BRKR LUGS SHALL MATCH FEEDERS.	
FOR LARGEST PHASE		71.13 A						KITCHEN: 65% LOAD											5. PROVIDE HINGED DOOR-IN-DOOR WITH OUTER DOOR LOCK.	
DESIGN LOAD (KVA) FOR PANEL		22.97						MISC: 100% LOAD											6. PROVIDE METAL DIRECTORY FRAME.	
DESIGN LOAD (KVA) FOR PANEL		63.75 A																		

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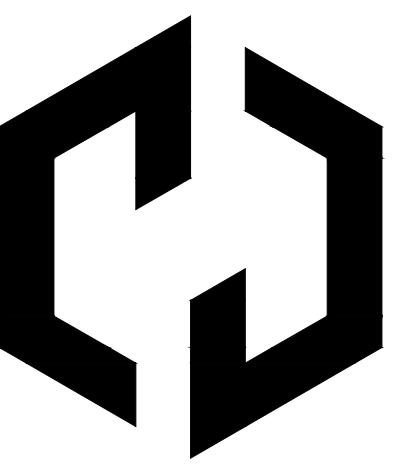
PROJECT TEAM

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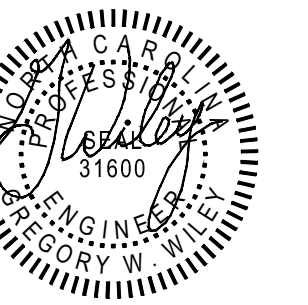
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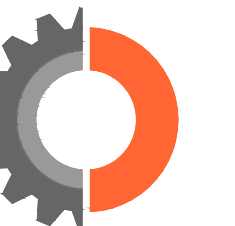
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1 04/24/2024	PERMIT REVISION
2 10/14/2024	RTAP NO. 1

Project Name



community church
making church come alive

658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

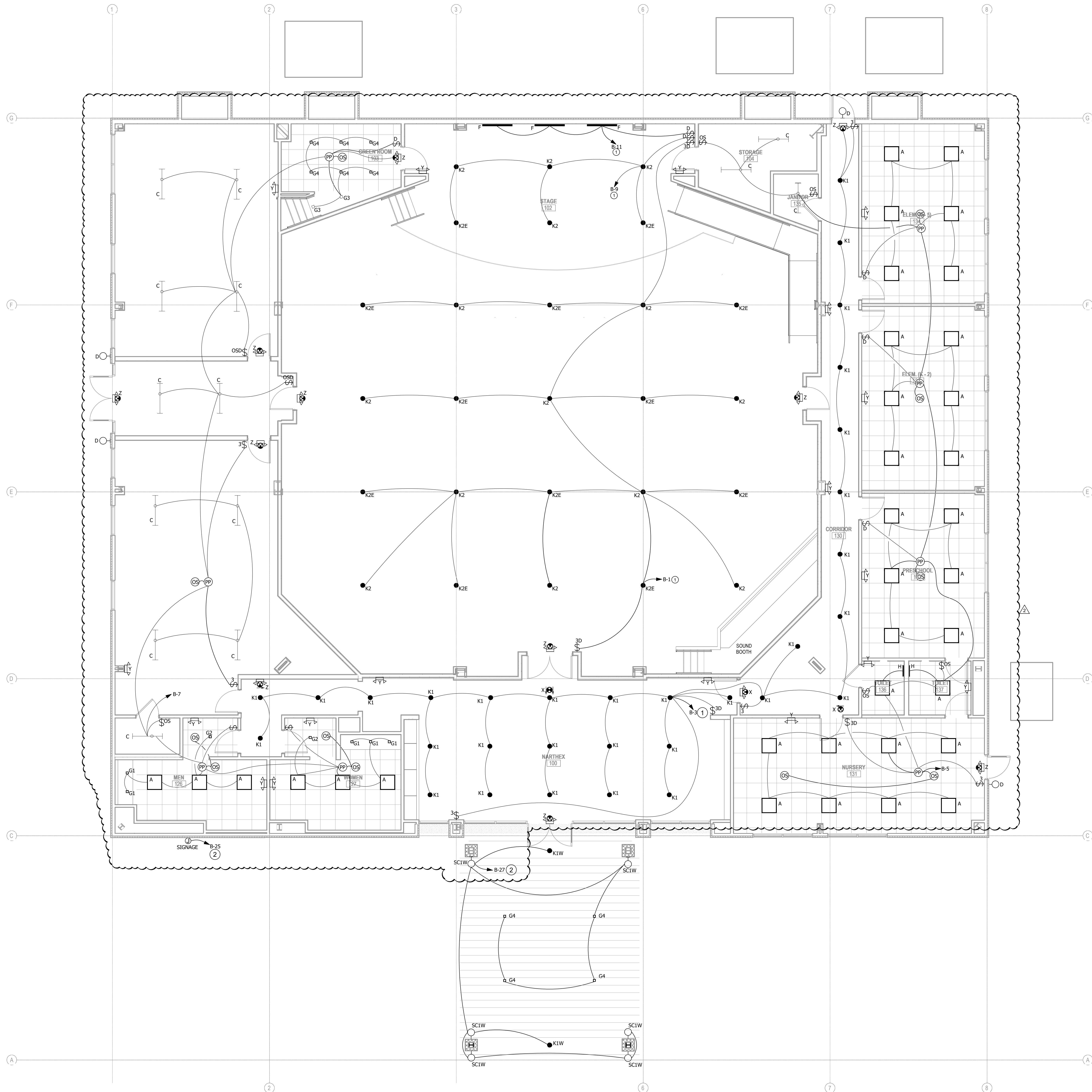
Description

FLOOR PLAN - LIGHTING

Scale

SEE PLANS

E01.01



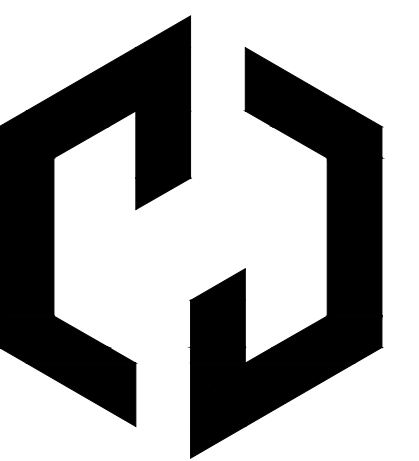
GENERAL LIGHTING NOTES:
(APPLIES TO THIS DRAWING ONLY)

- CONNECT ALL TYPE 'D', 'X', 'Y' AND 'Z' LIGHTS TO NEAREST INTERIOR LIGHTING CIRCUIT AHEAD OF LOCAL SWITCHING.
- COORDINATE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN.

KEYED NOTES:
(APPLIES TO THIS DRAWING ONLY)

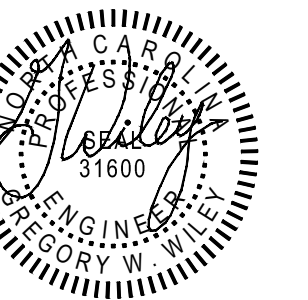
- ROUTE CIRCUIT THROUGH TIMECLOCK
- ROUTE CIRCUIT THROUGH PHOTOCELL

1 FLOOR PLAN - LIGHTING
E01.01 SCALE: 3/16" = 1'-0"



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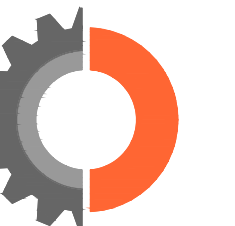
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Description

FLOOR PLAN - POWER

Scale

SEE PLANS

E02.01

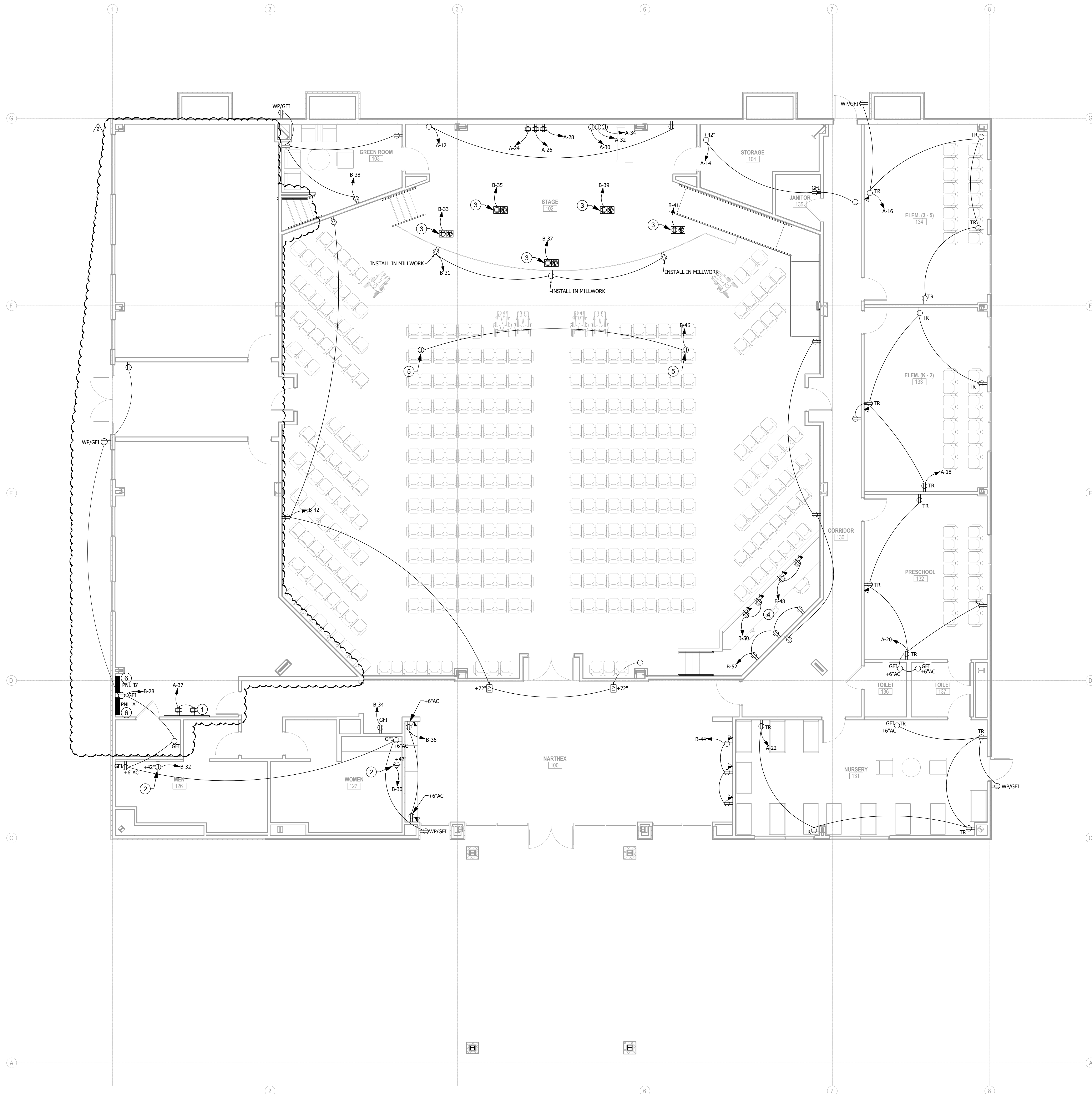
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GENERAL NOTES:

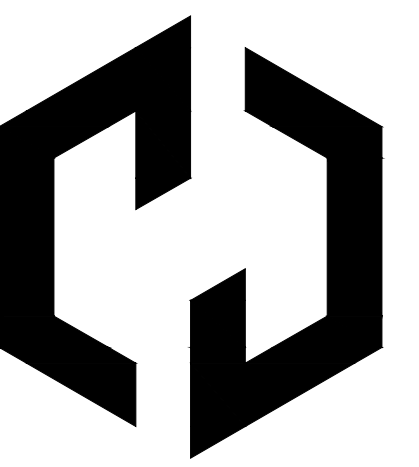
- (APPLIES TO 1/16 THIS DRAWING ONLY)
- COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.
 - PER NEC 408.12 ALL RECEPTACLES WHERE THE BOTTOM OF THE DEVICE IS MOUNTED LOWER THAN 65" THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT. THE ONE EXCEPTION IS ANY RECEPTACLE LOCATED BEHIND A DEDICATED APPLIANCE IS NOT REQUIRED TO BE TAMPER RESISTANT.

KEYED NOTES:

- (APPLIES TO 1/16 THIS DRAWING ONLY)
- PROVIDE AND INSTALL 4" X 24" PLYWOOD BACKBOARD FOR DATA/COMMUNICATIONS. ROUTE (1) 2" CONDUIT TO LOCATION OF TELECOM SERVICE ENTRANCE. COORDINATE EXACT LOCATION AND ROUTING IN FIELD PRIOR TO ROUGH-IN.
 - PROVIDE AND INSTALL JUNCTION BOX FOR CONNECTION TO HAND DRYER. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
 - INSTALL POKE-THRU DEVICE WITH QUADRAPLEX RECEPTACLE AND DATA/COMMUNICATIONS JACK IN THE STAGE FLOOR.
 - DEVICES LOCATED IN THE SOUTH BOOTH SHALL BE INSTALLED 18" ABOVE RAISED FLOOR.
 - PROVIDE JUNCTION BOX FOR PROJECTOR. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH ARCHITECT.
 - PROVIDE MOUNTING BRACKETS BEHIND THIS ELECTRICAL PANEL SO THAT IT IS NOT INSTALLED FLUSH ON THE WALL AND THERE IS A MINIMUM OF 1" CLEARANCE BEHIND THIS PANEL WITH THE WALL.

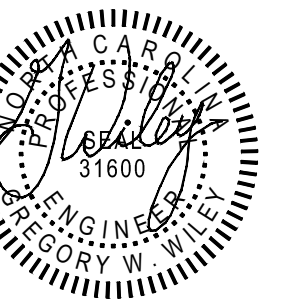


FLOOR PLAN - POWER
SCALE: 3/16" = 1'-0"



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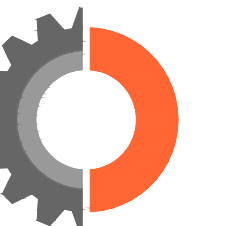
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3D COMMUNITY CHURCH

Project Number

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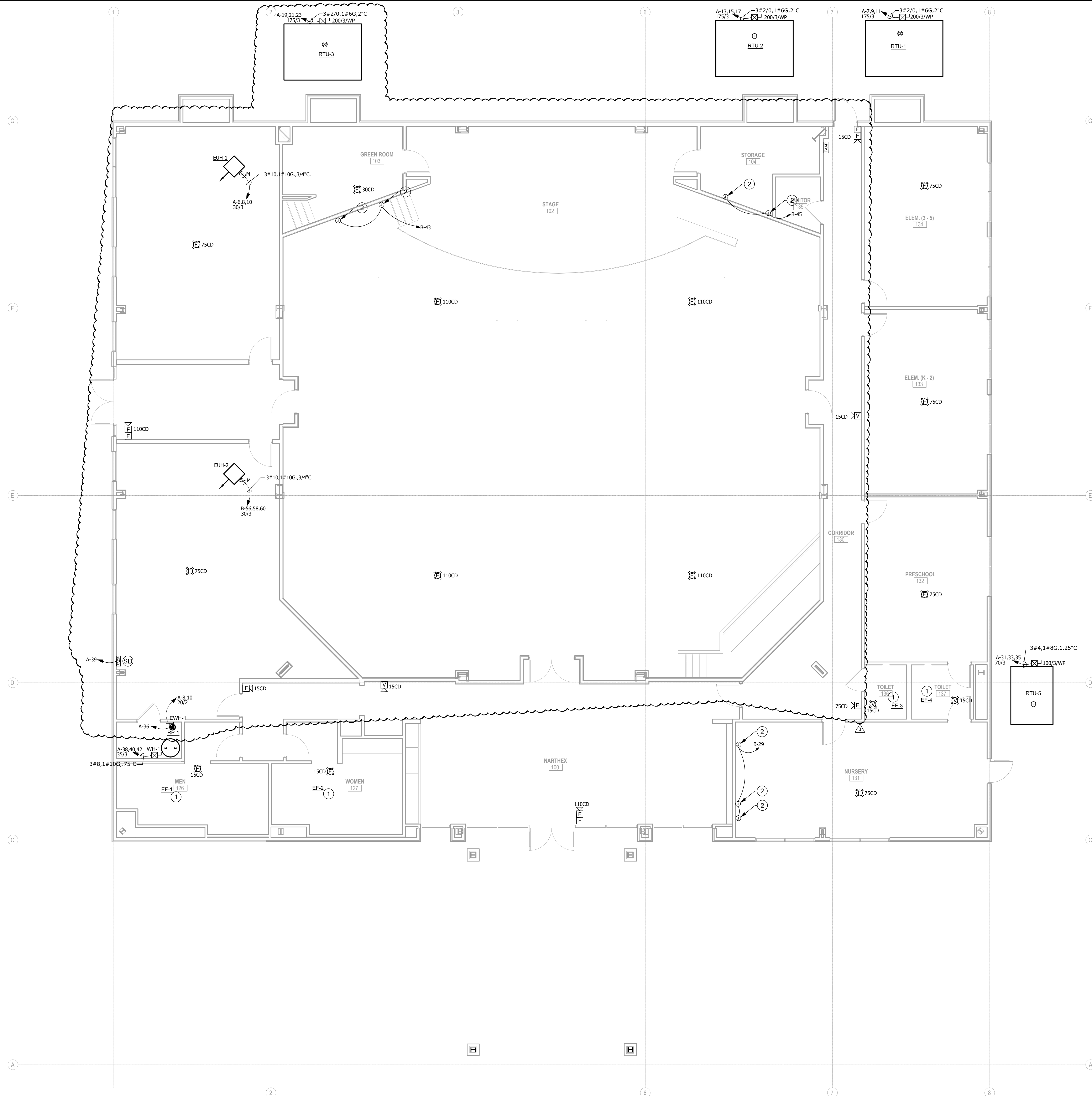
Description

FLOOR PLAN - SYSTEMS

Scale

SEE PLANS

E03.01



GENERAL NOTES:
(APPLIES TO THIS DRAWING ONLY)

- COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL DEVICES WITH ARCHITECT PRIOR TO ROUGH IN.

KEYED NOTES:
(APPLIES TO THIS DRAWING ONLY)

- INTERLOCK EXHAUST FAN WITH LIGHTS IN THIS ROOM. EXHAUST FAN SHALL BE CONTROLLED FROM OCCUPANCY SENSOR THAT SERVES THE LIGHTS IN THIS ROOM.
- PROVIDE AND INSTALL JUNCTION BOX FOR CONNECTION TO FIRE/SMOKE DAMPER. COORDINATE EXACT LOCATION IN FIELD. CONNECT TO FIRE ALARM CONTROL PANEL.

FLOOR PLAN - SYSTEMS
SCALE: 3/16" = 1'-0"

GENERAL MECHANICAL NOTES

GENERAL REQUIREMENTS:

- MECHANICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
- ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE NORTH CAROLINA MECHANICAL CODE AND ALL OTHER APPLICABLE CODES. M.C. IS TO COORDINATE WITH THE G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
- ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
- ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURERS STANDARD GUARANTEE. IF LONGER, ALL COMPRESSORS ARE TO INCLUDE FIVE (5) YEAR WARRANTY. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
- THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
- DO NOT SCALE DRAWINGS FOR MEASUREMENT.
- ALL DUCT DIMENSIONS SHOWN ARE INTERIOR DUCT DIMENSIONS.
- INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURERS MODEL NUMBER. IF A CONFLICT IS PRESENT BETWEEN THE DESCRIPTION AND MODEL NUMBER, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENCE. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENCE.
- THE M.C. IS RESPONSIBLE FOR CLARIFYING WITH THE G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED PRIOR TO SUBMITTING THE BID. THE SUBMITTING OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED IN THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
- ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
- UPON COMPLETION OF WORK, THE M.C. IS TO PROVIDE THE OWNER WITH A COMPLETE BOUND SET OF ALL EQUIPMENT OPERATION & MAINTENANCE MANUALS. THE PACKAGE SHALL ALSO INCLUDE ALL APPLICABLE WARRANTY & GUARANTEE INFORMATION.
- M.C. IS TO PROVIDE TRAINING TO OWNER OR OWNER'S REPRESENTATIVE IN REGARDS TO OPERATION, FUNCTION, AND MAINTENANCE OF ALL MECHANICAL EQUIPMENT, CONTROLS, ETC.
- M.C. IS TO REVIEW COMPLETE DRAWING SET. M.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED.
- THE M.C. SHALL BE HELD TO HAVE REVIEWED ALL SHEETS OF THE ENTIRE CONTRACT DOCUMENTS, INCLUDING ALL TRADES ARCHITECTURAL, PLUMBING ELECTRICAL, FIRE PROTECTION, AVIATA, STRUCTURAL, INTERIORS, ETC) AND WILL BE RESPONSIBLE FOR PERFORMING ALL WORK INDICED ON ANY SHEET. THE M.C. WILL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS.
- THE M.C. SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING WORK AND ADJUST DUCTWORK, ETC. TO CORRESPOND TO THE EXISTING CONDITIONS AS REQUIRED.
- M.C. TO COORDINATE WITH G.C FOR MOUNTING FRAMES, ROOF CURBS, ACCESS PANELS AND ANY OTHER WORK THAT NEEDS INTERDISCIPLINE COORDINATION.
- FRESH AIR INTAKES SHALL BE A MINIMUM OF 10' FT. FROM ALL EXHAUST TERMINATIONS IN COMPLIANCE WITH THE LOCAL BUILDING/MECHANICAL CODE.
- ALL EQUIPMENT, DUCT, PIPING, ETC EXPOSED INSIDE OR OUTSIDE OF THE BUILDING SHALL BE PAINTED WITH COLOR AS SELECTED BY ARCHITECT WHERE REQUESTED.
- ALL EXPOSED DUCT SHALL BE INTERNALLY INSULATED DOUBLE WALL SPIRAL DUCT WORK.
- ALL CONCEALED DUCT WORK SHALL BE EXTERNALLY INSULATED.
- ALL GREASE DUCT SHALL BE INSULATED WITH FIRE WRAP AS REQUIRED BY THE LOCAL MECHANICAL CODE IF CLEARANCE TO COMBUSTIBLES CAN NOT BE MAINTAINED.
- DISHWASHER UTILIZES SHALL BE A LOW TEMPERATURE DISHWASHER. THE HEAT AND MOISTURE LOADS HAVE BEEN INCLUDED IN THE HVAC CALCULATIONS.
- ALL ROOFING WORK TO BE PERFORMED BY LANDLORDS ROOFING CONTRACTOR.

DIVISION OF WORK:

- ALL ROOF WORK INCLUDING PENETRATIONS, OPENINGS, FLASHING, CURB INSTALLS, ETC. ARE TO BE PERFORMED BY THE ROOFING CONTRACTOR. THE M.C. IS RESPONSIBLE FOR PROVIDING ANY ROOF CURBS, EQUIPMENT RAILS, VENTS, ETC. AND COMMUNICATING ALL REQUIREMENTS WITH THE G.C. AND ROOFING CONTRACTOR PRIOR TO PERFORMING WORK.
- ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE M.C. ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C. THE E.C. SHALL PROVIDE AND INSTALL ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS AND CEILINGS RELATED TO THE INSTALLATION OF MECHANICAL EQUIPMENT AND SYSTEMS.
- THE G.C. IS RESPONSIBLE FOR PAINTING OF ANY EXPOSED DUCTWORK, PIPING, GRILLES, ETC. THE M.C. IS RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT. M.C. SHALL COORDINATE ALL FIELD PAINTED EQUIPMENT AND ACCESSORIES WITH THE G.C. PRIOR TO PERFORMING WORK.
- THE G.C. SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS PLATFORMS, GUARD RAILS, LADDERS, CONCRETE PADS, ETC. THE M.C. SHALL COMMUNICATE ALL REQUIREMENTS WITH THE G.C. PRIOR TO PERFORMING WORK.

COORDINATION:

- THE MECHANICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE MECHANICAL WORK (I.E. ACCESS DOORS, SLABWALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC).
- THE M.C. SHALL COORDINATE LOCATION OF ALL ROOF PENETRATIONS WITH THE ROOFING CONTRACTOR. THE P.C. AND M.C. SHALL COORDINATE LOCATIONS OF NEW PLUMBING VENTS AND EXHAUST TO ENSURE THAT NO PLUMBING VENTS OR ANY OTHER SOURCES OF BUILDING EXHAUST ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKE.

MATERIALS:

- ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED.
- PROVIDE HANGERS AND SUPPORTS APPROVED FOR USE BY APPLICABLE MECHANICAL CODE.
- ALL MAIN DUCTWORK (SUPPLY, RETURN, EXHAUST) SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS.
- ALL FLEXIBLE DUCTWORK SHALL BE LIMITED TO 5FT MAX. AND SHALL BE SUPPORTED AT THE MIDPOINT.
- ALL DIFFUSER AND GRILLE CONNECTIONS SHALL HAVE A RIGID 90° ELBOW PRIOR TO CONNECTION. FLEXIBLE DUCTWORK SHALL NOT CONNECT DIRECTLY TO THE DIFFUSER/GRILLE NECK.
- ALL SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED. INSULATION OF DUCTWORK IN UNCONDITIONED SPACE SHALL BE MINIMUM REQUIREMENTS SET FORTH BY THE APPLICABLE ENERGY CONSERVATION CODE.
- CONCEALED SHEET METAL SUPPLY & RETURN DUCT SHALL BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET.
- ALL MAIN DUCTWORK (INCLUDING EXHAUST) SHALL BE SEALED ACCORDING TO THE APPLICABLE

ENERGY CONSERVATION CODE TO SEAL CLASS C. AT A MINIMUM, INCLUDE SEALING OF ALL DUCT SEAMS WITH NON-HARDENING MASTIC. SEALING BY TAPE ALONE SHALL NOT BE ALLOWED.

- ALL DAMPERS TO INCLUDE SET SCREW OR SIMILAR FEATURE FOR LOCKING IN POSITION. ALL DAMPERS INSTALLED IN INSULATED DUCTWORK SHALL HAVE STANDOFFS FOR DAMPER OPERATION OUTSIDE OF THE INSULATION.
- ALL PROGRAMMABLE THERMOSTATS TO INCLUDE BATTERY BACK-UP AND SHALL INITIALLY BE PROGRAMMED TO THE FOLLOWING ADJUSTABLE SETPOINTS:
 - HEATING (OCCUPIED) = 70°F
 - HEATING (UNOCCUPIED) = 65°F
 - COOLING (OCCUPIED) = 75°F
 - COOLING (UNOCCUPIED) = 80°F
- THERMOSTAT SCHEDULES SHALL BE SET TO RUN "BUILDING WARM UP" BY PROGRAMMING THE OCCUPIED SETPOINTS TO BEGIN ONE HOUR PRIOR TO ACTUAL BUILDING OCCUPANCY (EXAMPLE: CHANGE THE HEATING SETPOINT FROM 65°F TO 70°F AT 6AM IF THE SPACE IS NORMALLY OCCUPIED AT 7AM).
- FOR ALL REMOVED EQUIPMENT CONTRACTOR SHALL REMOVE ALL SUPPORTS, HANGERS, CONTROLS, PIPING, UTILITIES, ETC.
- THE MECHANICAL DRAWINGS INDICATE THE GENERAL DESIGN AND ARRANGEMENT OF PIPING, EQUIPMENT, SYSTEMS, ETC. INFORMATION SHOWN IS DIAGRAMMATIC IN CHARACTER AND DOES NOT INDICATE EVERY REQUIRED OFFSET, FITTING, ETC.
- THE LOCATIONS OF THE ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. DO NOT SCALE THE DRAWINGS (UNLESS NOTED OTHERWISE).
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND SIZES OF ALL EXISTING EQUIPMENT, DUCTWORK, PIPING, ELECTRICAL CONDUIT, STRUCTURAL MEMBERS, ETC. PRIOR TO BID. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONTRACT DRAWINGS.
- ALL DUCTWORK, PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURAL STEEL SHALL BE COORDINATED WITH THE GC. ALL ATTACHMENTS TO STEEL BEAM JOISTS, TRUSSES, OR JOIST GIRDDERS, SHALL BE AT PANEL POINTS. PROVIDE BEAM CLAMPS MEETING MSS STANDARDS. WELDING TO STRUCTURAL MEMBERS SHALL NOT BE PERMITTED. THE USE OF C-CLAMPS SHALL NOT BE PERMITTED.
- MECHANICAL EQUIPMENT, DUCTWORK, AND PIPING SHALL NOT BE SUPPORTED FROM METAL DECK.
- BOXES SHALL BE PROVIDED WHEREVER DUCTS PASS THROUGH FLOOR, WALL AND ROOF CONSTRUCTION.
- WHERE HORIZONTAL DUCTS PASS THROUGH WALLS AND VERTICAL DUCTS PASS THROUGH FLOORS OR ROOFS, SEAL OFF VOID BETWEEN OPENING AND DUCT, WITH AN APPROVED NON-COMBUSTIBLE MATERIAL.
- FURNISH AND INSTALL ALL FOUNDATIONS, BASES AND SUPPORTS.
- LEAK TEST ALL DUCTWORK SYSTEMS PRIOR TO CONCEALMENT.
- PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT TO PREVENT TRANSMISSION OF VIBRATION TO BUILDING STRUCTURE.
- VALVES AND CLEANOUTS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY CODE.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS, AND OTHER CONCEALED MECHANICAL EQUIPMENT. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- ALL OPENINGS IN FIREWALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL.
- ALL AIR CONDITIONING CONDENSATE DRAIN LINES FROM EACH AIR HANDLING UNIT AND ROOFTOP UNIT SHALL BE FRESH FULL SIZE OF THE UNIT DRAIN OUTLET, WITH A P-TAP, AND PIPED TO NEAREST DRAIN. PROVIDE A CONDENSATE PUMP IF REQUIRED, FIELD VERIFY.
- ALL DUCTWORK SHALL CLEAR DOORS AND WINDOWS.

EXCEPTION:

- M.C. TO FOLLOW MANUFACTURERS INSTRUCTIONS WHEN INSTALLING MECHANICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE FLASHED AND COUNTER-FLASHED IN A WATERPROOF MANNER.
- INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR.
- AN INDEPENDENTLY CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND IN ACCORDANCE WITH THE APPLICABLE ENERGY CONSERVATION CODE. THE M.C. SHALL PROVIDE THE OWNERS REPRESENTATIVE & ENGINEER WITH COMPLETE BALANCE REPORT. THE M.C. IS RESPONSIBLE FOR PROVIDING ANY DAMPERS, VALVES, PORTS, ETC. NECESSARY FOR A COMPLETE SYSTEM BALANCE.
- ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
- SUPPORT ALL DUCTWORK AND PIPING IN ACCORDANCE WITH THE APPLICABLE MECHANICAL CODE. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
- PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE WITH THE APPLICABLE ENERGY CONSERVATION CODE.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL MECHANICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK, THE MECHANICAL CONTRACTOR SHALL CLEAN, WASH, ETC. ALL ITEMS AND EQUIPMENT WITHIN THE SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.

SPECIAL NOTICE TO CONTRACTORS

- ALL CONTRACTORS (GENERAL CONTRACTOR AND SUB-CONTRACTORS) BIDDING THIS PROJECT ARE REQUIRED TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE MAY BE CONTACTED FOR ACCESS TO THE JOB SITE.
- PRIOR TO CONSTRUCTION CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF THE FOLLOWING:
 - ALL POINTS OF CONNECTION TO BUILDING UTILITIES AND/OR SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, MECHANICAL, SYSTEMS, DUCTWORK, EXHAUST/OUTSIDE AIR, SECURITY, FIRE/LEAD SAFETY, DATA, AND PHONE.
 - ALL REQUIRED CONNECTIONS TO THE BUILDING STRUCTURE
 - ALL REQUIRED BUILDING PENETRATIONS. IT IS RECOMMENDED THAT THE CONTRACTOR X-RAY ALL PENETRATIONS THRU CONCRETE AND MASONRY.
- ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- SEE ARCHITECTURAL PLANS FOR CONTACT INFORMATION.

MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AHJ	AUTHORITY HAVING JURISDICTION	LAT	LEAVING AIR TEMPERATURE
A	AMPERE (AMP, AMPS)	LB	POUNDS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LRA	LOCKED ROTOR AMPS
		MAX.	MAXIMUM
APPROX.	APPROXIMATELY	MBH	ONE THOUSAND BTU/HR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS	M.C.	MECHANICAL CONTRACTOR
		MCA	MINIMUM CIRCUIT AMPACITY
		MIN.	MINIMUM
BTU	BRITISH THERMAL UNIT	MOCP	MAXIMUM OVERCURRENT PROTECTION
BTU/HR	BTU PER HOUR	N/A	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	NC	NOISE CRITERIA
DB	DRY BULB TEMPERATURE (°F)	NTS	NOT TO SCALE
DEG	DEGREE	OA	OUTDOOR AIR
DEMO	DEMOLISH OR DEMOLITION	P.C.	PLUMBING CONTRACTOR
DIA	DIAMETER	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RH	RELATIVE HUMIDITY
E.C.	ELECTRICAL CONTRACTOR	RLA	RUNNING LOAD AMPS
ESP	EXTERNAL STATIC PRESSURE	RPM	REVOLUTIONS PER MINUTE
EXIST.	EXISTING	RTU	ROOFTOP UNIT
*F	DEGREES FAHRENHEIT	SA	SUPPLY AIR
FLA	FULL LOAD AMPS	SEER	SEASONAL ENERGY EFFICIENCY RATIO
F.P.C.	FIRE PROTECTION CONTRACTOR	SF	SQUARE FOOT/FEET
FPM	FEET PER MINUTE	SQ. FT.	SQUARE FOOT/FEET
FT	FOOT OR FEET	TYP.	TYPICAL
G.C.	GENERAL CONTRACTOR	V	VOLTAGE
HP	HORSEPOWER OR HEAT PUMP	VAV	VARIABLE AIR VOLUME
HR	HOUR	W	WATT
HSPF	HEAT PUMP SEASONAL PERFORMANCE FACTOR	WB	WET BULB TEMPERATURE (°F)
IN.	INCHES		
IN. W.G.	INCHES WATER GAUGE		

MECHANICAL BUILDING CODE SUMMARY

MECHANICAL SUMMARY	
MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
THERMAL ZONE 4A	ENERGY COMPLIANCE SHALL BE OF THE PRESCRIPTIVE PATH AS OUTLINED IN THE NORTH CAROLINA ENERGY CONSERVATION CODE.
WINTER DRY BULB: 21.6°F	
SUMMER DRY BULB: 84.2°F	
SUMMER WET BULB: 74.7°F	
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB: 68°F	
SUMMER DRY BULB: 75°F	
RELATIVE HUMIDITY: 50%	
HEATING AND COOLING LOADS	
BUILDING HEATING LOAD: SEE SCHEDULES	
BUILDING COOLING LOAD: SEE SCHEDULES	
MECHANICAL SPACING CONDITIONING SYSTEM UNITARY	
DESCRIPTION OF UNIT: SEE SCHEDULES	
HEATING EFFICIENCY: SEE SCHEDULES	
COOLING EFFICIENCY: SEE SCHEDULES	
SIZE CATEGORY OF UNIT: SEE SCHEDULES	
EQUIPMENT EFFICIENCIES	
COOLING EFFICIENCY: SEE SCHEDULES	
HEATING EFFICIENCY: SEE SCHEDULES	

MECHANICAL DRAWING SYMBOLS

	DOUBLE LINE RECTANGULAR DUCT (DIMENSIONS IN INCHES)
	DOUBLE LINE ROUND DUCT
	SUPPLY AIR DUCT ELBOW DOWN WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	RETURN AIR DUCT ELBOW DOWN WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	EXHAUST AIR DUCT ELBOW DOWN WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	SUPPLY AIR DUCT ELBOW UP WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	RETURN AIR DUCT ELBOW UP WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	EXHAUST AIR DUCT ELBOW UP WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	DUCT ELBOW WITH TURNING VANES, INSTALLED PER SMACNA STANDARDS
	CEILING SUPPLY DIFFUSER, DESIGNATION AS NOTED
	CEILING RETURN GRILLE, DESIGNATION AS NOTED
	MANUAL VOLUME DAMPER WITH QUADRANT EXTENSION FOR OPERATION WITH EXTERNALLY INSULATED DUCTWORK
	AIR DISTRIBUTION TAG "X" REPRESENTS TAG "##" REPRESENTS CFM
	RETURN/EXHAUST AIRFLOW DIRECTION
	7-DAY PROGRAMMABLE THERMOSTAT WITH OCCUPANCY CONTROL. MOUNT AT 48" AFF TO CONFORM TO ADA AND NC ACCESSIBILITY REQUIREMENTS.
	AUDIO/VISUAL CONDENSATE ALARM WITH REMOTE TEST SWITCH
	REMOTE WIRELESS ZONE TEMPERATURE SENSOR
	POINT OF CONNECTION CONNECT TO EXISTING OR DISCONNECT FROM EXISTING
	KEY NOTE TAG

TABLE 305.4
PIPING SUPPORT SPACINGa

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (feet)	MAXIMUM VERTICAL SPACING (feet)
ABS pipe	4	10c
Aluminum pipe and tubing	10	15
Brass pipe	10	10
Brass tubing, 1 1/4-inch diameter and smaller	6	10
Brass tubing, 1 1/2-inch diameter and larger	10	10
Cast-iron pipe	5	15
Copper or copper-alloy pipe	12	10
Copper or copper-alloy tubing, 1 1/4-inch diameter and smaller	6	10
Copper or copper-alloy tubing, 1 1/2-inch diameter and larger	10	10
CPVC pipe or tubing, 1 inch and smaller	3	10c
CPVC pipe or tubing, 1 1/4-inch and larger	4	10c
Lead pipe	Continuous	4
PB pipe or tubing	2 1/2 (32 inches)	4
PE-RT 1 inch and smaller	2 1/2 (32 inches)	10c
PE-RT 1 1/2 and larger	4	10c
PEX tubing	22 1/2 (32 inches)	10c
Polypropylene (PP) pipe or tubing, 1 inch or smaller	22 1/2 (32 inches)	10c
Polypropylene (PP) pipe or tubing, 1 1/4 inches or larger	4	10c
PVC pipe	4	10c
Steel tubing	8	10
Steel pipe	12	15

For Sl: 1 inch = 25.4 mm, 1 foot = 304.8 mm.
 a. See Section 301.18.
 b. The maximum horizontal spacing of cast-iron pipe hangers shall be increased to 10 feet where 10-foot lengths of pipe are installed.
 c. Mid-story guide.

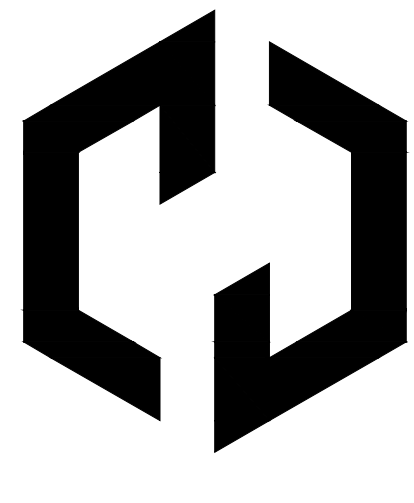
DIFFUSER SCHEDULE

CFM	NECK SIZE
0 - 100	6"
101 - 200	8"
201 - 350	10"
351 - 650	12"
651 - 1000	14"

FOR ANY RUN-OUT OVER 20' IN LENGTH, USE NEXT SIZE UP ON THIS SCHEDULE. DETERMINE LENGTH IN FIELD.

PROJECT SPECIFIC NOTES:

- ALL EXPOSED DUCT SHALL BE INTERNALLY INSULATED DOUBLE WALL SPIRAL DUCT WORK WITH PAINT GRIP FINISH. INTERNAL INSULATION SHALL BE PROVIDED WITH PERFORATED INNER SHEET METAL WALL.
- ALL CONCEALED DUCT WORK SHALL BE EXTERNALLY INSULATED.
- THERE SHALL BE NO COOKING OF FOODS ON THE PREMISES.
- INTAKE TERMINATIONS SHALL BE LOCATED A MINIMUM OF 10 FEET FROM ALL EXHAUST AND VENT TERMINATIONS IN COMPLIANCE WITH THE NORTH CAROLINA MECHANICAL CODE.
- EXHAUST TERMINATIONS SHALL BE A MINIMUM OF 10 FEET FROM ALL INTAKE OPENINGS AND OPERABLE OPENINGS INTO THE BUILDING IN COMPLIANCE WITH THE NORTH CAROLINA MECHANICAL CODE.
- DRAWING IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO INDICATED FINAL INSTALLED LOCATIONS OF EQUIPMENT OR DUCTWORK. DRAWINGS DEMONSTRATE DESIGN INTENT ONLY. CONTRACTOR(S) ARE RESPONSIBLE FOR FINAL COORDINATION AND THE PRODUCTION OF ACCURATE, DIMENSIONED SHOP DRAWINGS AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION. THERE SHALL BE NO ALLOWANCES GIVEN FOR THE LACK OF CONTRACTOR COORDINATION. MAINTAIN ALL CODE AND MANUFACTURER REQUIRED CLEARANCES TO ALL EQUIPMENT AND DEVICES.
- ALTERNATE DUCT SIZES/SHAPE ARE ALLOWED AND ARE NOT REQUIRED TO BE RESUBMITTED TO THE PERMIT DEPARTMENT. MAINTAIN DUCT PRESSURE DROP AND VELOCITY. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS. ALL CHANGES SHALL BE CAPTURED IN THE CONTRACTORS SHOP DRAWINGS.



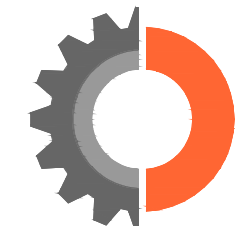
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△ Date Description

01/30/2024 ISSUE FOR CONSTRUCTION

Project Name



community church
making church come alive

658 GRAHAM ROAD
 SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

NOTES & ABBREVIATIONS - HVAC

Scale

NA

M00.01

GENERAL NOTES AND SPECIFICATIONS
(ABRIDGED VERSION, SEE FULL DIVISION 23 STANDARD SPECIFICATIONS,
AVAILABLE UPON REQUEST)

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE TENANT MECHANICAL SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, ACCESSORIES, OPTIONS AND CONTROLS, COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL ITEMS AND LABOR REQUIRED FOR A COMPLETE TENANT MECHANICAL SYSTEM IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND THE BASE BUILDING CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT PARTITION LAYOUTS, REFLECTED CEILING PLANS, DIMENSIONS, ETC.
- ALL MATERIALS AND EQUIPMENT SHALL BE PROPERLY AND EFFECTIVELY PROTECTED BY THE CONTRACTOR DURING THE EXECUTION OF THE WORK.
- EQUIPMENT IDENTIFIED ON DRAWINGS IN SOME INSTANCES ARE LOCATED FOR DRAWING CLARITY. COORDINATE EXACT LOCATION OF EQUIPMENT WITH STRUCTURE, OTHER EQUIPMENT, AND OTHER TRADES TO ALLOW CLEARANCE FOR EQUIPMENT ACCESS PER MANUFACTURERS REQUIREMENTS.
- ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA MECHANICAL, FUEL GAS AND PLUMBING CODE.
- CONTRACTOR SHALL COORDINATE LOCATIONS AND SIZES OF ALL PENETRATIONS THROUGH WALLS AND CEILING WITH OTHER TRADES INVOLVED.
- ALL SCHEDULED EQUIPMENT SIZES ARE NOMINAL. OPERATING SPEEDS AND POWER REQUIREMENTS ARE MAXIMUM VALUES. AIR VELOCITIES AND PRESSURE DROPS THROUGH SYSTEM COMPONENTS SHALL BE WITHIN 15% OF THOSE INDICATED.
- TEST AND BALANCE ALL DIFFUSERS, BOXES, FANS, PUMPS, ETC. TO THE AIRFLOWS AND CONDITIONS INDICATED. ALL EXISTING DIFFUSERS, BOXES, FANS, ETC. WHICH ARE NOT NOTED OTHERWISE SHALL BE BALANCED TO THEIR PRIOR DESIGN AIRFLOWS. REFERENCE THE EXISTING RECORD DRAWING AVAILABLE FROM THE OWNER. TESTING AND BALANCING OF HVAC SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF AABC AND SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN AABC CERTIFIED TEST AND BALANCE ENGINEER. SUBMIT 4 COPIES OF THE REPORT TO THE OWNER. NEBB AGENCIES ARE NOT ACCEPTABLE AND ARE CAUSE FOR REJECTION.
- ALL FLOOR PENETRATIONS WITHIN THE BUILDING SHALL BE CORE DRILLED. PRIOR TO CORE DRILLING FLOOR, CONTRACTOR SHALL VERIFY EXACT LOCATION OF STRUCTURAL MEMBERS, DUCTWORK, PIPING, EQUIPMENT, ETC., IN CEILING SPACE BELOW. (WHERE CONDUITS MAY EXIST WITHIN THE SLAB THE CONTRACTOR SHALL USE X-RAY TECHNIQUES).
- COORDINATE EXACT LOCATION OF FIRE AND SMOKE RATED WALL TYPES WITH ARCHITECTURAL PLANS.
- PROVIDE ALL SLEEVES, SAW CUTTING, CORE-DRILLING AND FIRE STOPPING ASSOCIATED WITH DIVISION 15 (EXCLUDING FIRE PROTECTION WORK, SEAL, FIRE, SMOKE, AS REQUIRED) ALL PENETRATIONS (BOTH NEW AND DEMOLITION WORK) CAUSED BY PLUMBING/MECHANICAL WORK. SEAL ALL FLOOR AND DECK PENETRATIONS CAUSED BY MECHANICAL/PLUMBING DEMOLITION WITH CONCRETE. ALL PENETRATIONS MUST BE FIRE STOPPED IN THE SAME DAY THEY ARE CREATED.
- IT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO ENSURE THAT AT THE BEGINNING OF EACH NIGHT OUTAGE, THAT AIR, PLUMBING, MEDICAL, GASES AND ALL OTHER SERVICES DISRUPTED BY THIS SCOPE OF WORK ARE SUPPLIED TO ALL AREAS OF THE FACILITY REMAINING IN OPERATION. THIS INCLUDES FURNISHING AND INSTALLING ANY TEMPORARY MATERIALS NECESSARY TO ACCOMPLISH THIS.
- RECEIVE, UNLOAD, HOIST TO FINAL LOCATION, SET INTO PLACE, CONNECT, TEST AND BALANCE ALL NEW PREPURCHASE EQUIPMENT INCLUDING WARRANTY FOR INSTALLATION ONLY UPON DELIVERY TO SITE. COORDINATE DELIVERY WITH THE RESPECTIVE EQUIPMENT MANUFACTURER.
- FURNISH AND INSTALL ALL ROOF MOUNTED SUPPORT STRUCTURES. INCLUDE ALL SUPPORTS, CURBS, ANGLES, CLIPS, ALL THREAD, BOLTS, AND OTHER CONNECTIONS TO SUPPORT AND MOUNT NEW WORK. COORDINATE WITH ROOFING.
- ALL WELDS SHALL BE PERFORMED BY A CERTIFIED WELDER. A CERTIFICATE FOR THE WELDER PERFORMING WORK ON THIS PROJECT SHALL BE SUBMITTED DURING THE SUBMITTAL PROCESS FOR APPROVAL BY THE OWNER AND ENGINEER. PHOTO IDENTIFICATION OF THE IDENTIFIED WELDER SHALL BE PRESENTED TO THE PROJECT SUPERINTENDENT PRIOR TO WORKING ON SITE.
- ALL INDIVIDUAL DUCTWORK/PIPING SECTIONS SHALL BE WRAPPED PRIOR TO DELIVERY TO JOBSITE TO PREVENT CONTAMINATION. WRAPPING SHALL BE MAINTAINED UNTIL DUCTWORK IS HUNG IN PLACE.
- AT THE END OF EACH SHIFT, THE CONTRACTOR SHALL SEAL THE OPEN ENDS OF DUCTWORK/PIPING TO PREVENT DUST INFILTRATION.
- FOLLOW ALL REQUIREMENTS OF THE MANUFACTURERS' INSTALLATION, OPERATION, AND STARTUP INSTRUCTIONS AND THE SPECIFICATIONS LISTED BELOW. THE MATERIALS AND WORKMANSHIP SHALL MEET AND/OR EXCEED THESE SPECIFICATIONS. IN THE EVENT THERE IS A CONFLICT BETWEEN THESE SPECIFICATION, THE MANUFACTURERS' REQUIREMENTS, AND/OR LOCAL AUTHORITY REQUIREMENTS, THE MOST STRINGENT SHALL APPLY.
- ANY PENETRATION OF A FIRE AND/OR SMOKE RATED ASSEMBLY SHALL BE PROTECTED IN A U.L. APPROVED MANNER.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND/OR MODIFYING ALL CONTROLS AND SAFETY DEVICES REQUIRED BY THE LOCAL AUTHORITY. CONTRACTOR IS TO FIELD VERIFY AND INCLUDE ANY CONTROLS AND SAFETY DEVICE WORK IN PROPOSAL.
- ALL WORK SHALL BE PERFORMED IN A NEAT AND WORKMAN LIKE MANNER.
- PRESSURE TEST ALL PIPING, DUCT WORK AND EQUIPMENT PRIOR TO FINAL CONNECTION TO EXISTING SYSTEM. PROVIDE OWNER WITNESS DOCUMENTATION.
- CONTRACTOR SHALL VERIFY THE CLEANLINESS OF HYDRONIC SYSTEMS PRIOR TO MAKING CONNECTION TO NEW EQUIPMENT. CONTRACTOR SHALL NOTIFY PROPERTY AND PROJECT MANAGER IF HIGH CONCENTRATIONS OF SOLIDS ARE DETECTED.
- DEBRIS FROM DEMOLITIONS AND CONSTRUCTION SHALL BE REMOVED FROM THE PROPERTY.
- DEBRIS SHALL BE DISPOSED OF PER LOCAL, STATE, AND FEDERAL REGULATIONS.
- WORK SITE SHALL BE KEPT CLEAN AT ALL TIMES. WORK SITE SHALL BE BROOM CLEANED AT THE COMPLETION OF EACH WORK DAY. ALL DEBRIS AND MATERIALS SHALL BE REMOVED FROM JOB SITE EACH DAY UNLESS THE PROPERTY DESIGNATES A DEBRIS STORAGE AREA.
- CONTRACTOR SHALL NOT UTILIZED THE PROPERTY'S DUMPSTER UNLESS APPROVAL IS GIVEN BY THE PROPERTY.
- FRESH AIR INTAKES AND EXHAUST/FLUE/VENT TERMINATIONS SHALL BE SEPARATED A MINIMUM OF 10 FT AND INSTALLED IN ACCORDANCE WITH THE LOCAL MECHANICAL CODE.

DUCT:

- ALL RETURN AIR AND TRANSFER AIR DUCT WORK SHALL BE INTERNAL LINED FOR SOUND ATTENUATION. NO DUCT LINER SHALL BE INSTALLED IN DUCT WORK SERVING LABS, CLEAN ROOMS, PHARMACIES, OR OPERATING ROOMS.
- ALL NEW DUCTWORK, THE FABRICATION AND INSTALLATION OF ALL NEW DUCTWORK TOGETHER WITH RELATED EQUIPMENT, SHALL COMPLY WITH "SMACNA" DUCT CONSTRUCTION STANDARDS, NFPA 90A & 90B. LATEST ADDITION OF ASHRAE GUIDE & DATA BOOK, AS DETAILED ON THE DRAWINGS & PER LOCAL CODES.
- THE DUCTWORK CONTRACTOR SHALL INSTALL AND SECURE ALL NEW DUCTWORK TO ROOF STRUCTURE IN ATTIC SPACE ABOVE ARCHITECTURAL CEILING.
- THE DUCTWORK CONTRACTOR SHALL VERIFY & FIELD MEASURE PRIOR TO FABRICATION OF NEW DUCTWORK.
- ALL NEW DUCTWORK SHALL BE GALVANIZED SHEETMETAL, UNLESS NOTED OTHERWISE. MIN. R-8 INSULATION FOR SUPPLY DUCT AND R-4.2 FOR RETURN AND EXHAUST DUCT.
- FLEXIBLE DUCT SHALL BE UL LISTED AS CLASS 1 CONNECTOR, STANDARD 181 AND SHALL COMPLY WITH NFPA 90A. THE FLEXIBLE DUCT SHALL HAVE AN EXTERIOR JACKET OF FIBERGLASS INSULATION ENCLOSED IN A VINYL VAPOR BARRIER AND WITH AN INNER LINER TOTALLY ENVELOPING THE HELICAL COIL. MINIMUM R-8 INSULATION VALUE, ACCEPTABLE MANUFACTURERS, ATCO - "UPC #078" OR APPROVED EQUAL.
- PROVIDE FLEXIBLE DUCT OF THE SAME SIZE INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS AS REQUIRED FOR A COMPLETE CONNECTION.
- PENETRATION OF NEW DUCTWORK BY PIPES, CONDUITS, ELECTRICAL FIXTURES, OR STRUCTURAL MEMBERS IS NOT ACCEPTABLE.
- COORDINATE EXACT LOCATION OF WALL MOUNTED THERMOSTAT SHOWN ON DRAWINGS WITH EQUIPMENT LAYOUT AND ARCHITECT OWNER.
- ALL DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.
- THE DUCTWORK CONTRACTOR SHALL COORDINATE HIS WORK WITH BOTH THE ELECTRICAL AND CEILING CONTRACTOR THROUGHOUT THE ENTIRE PROJECT.
- ALL DIFFUSERS, REGISTERS, GRILLES, INTAKES SHALL BE BALANCED TO AIRFLOW SHOWN ON MECHANICAL PLANS.

- ALL CONTROL WIRING AND TUBING INSTALLED ABOVE THE CEILING SHALL BE LOCATED AS HIGH ABOVE THE CEILING AS POSSIBLE AND SHALL FOLLOW THE DESIGNATED GENERAL ROUTING OF THE DUCTWORK. DO NOT HANG WIRING OR TUBING FROM DUCTWORK; RATHER, SUSPEND FROM THE STRUCTURE.
- THERMOSTATS SHALL BE LOCATED IN EACH ZONE AS SHOWN. THE EXACT LOCATION ON THE WALL INDICATED SHALL BE AS DIRECTED BY THE ARCHITECT. NEW THERMOSTATS SHALL BE SELECTED TO MATCH EXISTING BASE BUILDING THERMOSTATS AND SHALL BE COMPATIBLE WITH EQUIPMENT SERVED.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
- PRESSURE CLASS SHALL BE 150% OF FAN EXTERNAL STATIC PRESSURE AT DEAD HEAD.
- SIZE DUCTWORK PER CURRENT ASHRAE FUNDAMENTALS.
- RECOMMENDATION:
 - 16.1.1. LOW PRESSURE SUPPLY DUCT WORK
16.1.1.1. NTE - 0.1 INCH/100FT & 1400 FPM.
 - 16.1.1. MEDIUM PRESSURE SUPPLY DUCT WORK
16.1.1.1. NTE - 0.25 INCH/100FT & 2500 FPM.
 - 16.1.1. TOILET EXHAUST AND RETURN DUCT WORK
16.1.1.1. NTE - 0.1 INCH/100FT & 1200 FPM.
- PROVIDE TURNING VANES AT ALL RECTANGULAR ELBOWS. TURNING VANES ARE NOT ALLOWED IN MEDIUM PRESSURE DUCT WORK UNLESS SPECIALLY APPROVED.
- ALL JOINTS SHALL BE SEALED WITH DUCTMATE 35 OR SIMILAR SYSTEM IN A CLEAN AND PROFESSIONAL MANNER.
- ALL DUCTWORK CONVEYING SUPPLY AIR, RETURN AIR LOCATED ON UPPER FLOOR OR OUTDOORS, AND OUTSIDE AIR LOCATED INDOORS SHALL BE INSULATED.
- INSULATION AND ADHESIVE SHALL MEET 25/50 FLAME SPREAD AND SMOKE DEVELOPMENT. COMPLIANCE WITH NFPA 90A & 90B.
- INTERNAL LINING (INDOORS): CERTAINTED TOUGHGARD "R" DUCT LINER. TYPE 150, 2.0 INCH THICKNESS, R-8 MINIMUM OR AS REQUIRED BY LOCAL CODE.
- INTERNAL LINING (OUTDOOR): CERTAINTED TOUGHGARD RIGID LINER BOARD. 2.0 INCH THICKNESS, R-8.7 MINIMUM OR AS REQUIRED BY LOCAL CODE.
- EXTERNAL WRAP (INDOORS): CERTAINTED SOFT TOUCH DUCTWRAP, TYPE 75, 2.25 INCH THICKNESS, R-8 MINIMUM OR AS REQUIRED BY CODE.
- ALL DUCTWORK SHALL BE PROPERLY SUPPORTED. WOOD PRODUCTS ARE NOT PERMITTED FOR SUPPORTS.
- DUCTWORK INSTALLED ON ROOF SHALL BE SUPPORTED BY ROOF RAILS ATTACHED TO THE BUILDING ROOFING SYSTEM IN LOCATION WHERE WIND COULD DAMAGE THE DUCTWORK. DO NOT SCREW INTO DUCTWORK. SUPPORT BETWEEN 2 PIECES OF UNI-STRUT.
- IT IS NOT ACCEPTABLE TO SUPPORT FROM EXISTING PIPE OR DUCTWORK.

PIPE:

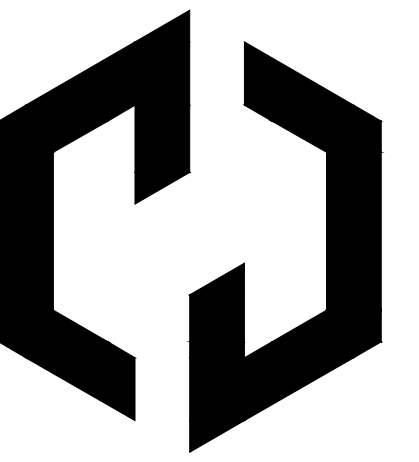
- PIPE SUPPORT ATTACHMENT TO BRIDGING OR METAL ROOF DECK IS STRICTLY PROHIBITED.
- GAS PIPING IN THE BUILDING SHALL BE THREADED SCHEDULE 40 BLACK STEEL UNDER 4" SYSTEMS ABOVE 4" SHALL BE WELDED IN COMPLIANCE WITH THE SC FUEL GAS CODE. PROVIDE HANGERS IN COMPLIANCE WITH THE SC MECHANICAL, FUEL GAS AND PLUMBING CODES.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL COMPLYING WITH ANSI B36.10.
- ABOVEGROUND DOMESTIC WATER SYSTEM PIPING 3" IN SIZE AND SMALLER SHALL BE TYPE L HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS AND SOLDERED JOINTS.
- PROVIDE PIPE HANGERS FOR IN COMPLIANCE WITH THE NORTH CAROLINA PLUMBING CODE.
- ALL HOT AND COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK PREFORMED FIBERGLASS PIPE INSULATION WITH ALL-SERVICE JACKET, ALL LONGITUDINAL JOINTS, TEARS, ETC., SEALED WITH A MATCHING WHITE VAPOR BARRIER TAPE. ELBOWS SHALL BE MITERED OR MAY BE ZESTON COVERS FILLED WITH EQUIVALENT FIBERGLASS INSULATION.
- ANY ITEM OR EQUIPMENT THAT IS REMOVED OR RELOCATED TO FACILITATE THE DEMOLITION AND/OR NEW WORK SHALL BE CLEANED AND REINSTALLED BACK TO ITS ORIGINAL OR NEW LOCATION. PATCH ALL OPENINGS IN FLOOR, CEILINGS, AND WALLS MADE IN ADJACENT AREAS THAT ARE NOT BEING DEMOLISHED.
- REMOVE OR REUSE ALL HANGERS, SUPPORTS, AND ACCESSORIES ASSOCIATED WITH ITEMS OR EQUIPMENT BEING DEMOLISHED.
- EXISTING SERVICES ARE BASED ON ORIGINAL DRAWINGS AND LIMITED FIELD WORK. CONTRACTOR SHALL VERIFY EXISTING SERVICES PRIOR TO TIE-IN.
- PROVIDE PIPE UNIONS AT ALL AUTOMATIC CONTROL VALVES AND VARIABLE AIR VOLUME TERMINAL UNIT REHEAT COIL CONNECTIONS. REFER TO SPECIFICATION SECTION 15050 FOR ADDITIONAL REQUIREMENTS.
- ALL SANITARY PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8" PER FOOT.
- STORM WATER PIPING SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8" PER FOOT (OR AS INDICATED ON THE FLOOR PLANS).
- THE MEDICAL GAS AND VACUUM SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 99 AND UPON COMPLETION SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING AGENCY.
- ALL HVAC WATER SUPPLY AND RETURN PIPING SHALL BE SCHEDULE 40 STEEL.
- ALL HVAC WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED WITH 1-1/2" THICK FIBERGLASS PERFORMED PIPE INSULATION WITH A WHITE ALL-SERVICE JACKET/VAPOR BARRIER.
- BALANCING VALVES SHALL HAVE A CAST IRON BODY, BRONZE TRIM AND BRONZE DISC. VALVE SHALL BE SUITABLE FOR 125 PSIG WORKING PRESSURE AND PROVIDE POSITIVE SHUT-OFF. EACH BALANCING VALVE SHALL BE EQUIPPED WITH TWO GAUGE TAPS WITH CHECK VALVES AND DRAIN CAPS. PROVIDE PREFORMED INSULATION TO ENCASE VALVE ASSEMBLY. BALANCING VALVES SHALL BE AUTO FLOW TYPE URT OR GRISWOLD 3600. AFTER THE TEST AND BALANCE IS COMPLETE, PROVIDE TO THE OWNER A DIFFERENTIAL PRESSURE GAUGE TO MATCH THE BALANCING VALVES.
- ALL PIPING AND SPECIALTIES MATERIAL SHALL BE SUITABLE FOR SYSTEM TYPE, APPLICATION, AND CONFORM TO LOCAL CODE AND REGULATIONS.
- INCLUDE ALL LABOR AND MATERIALS TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM, INCLUDING: ISOLATION AND BALANCING VALVES, FITTINGS, UNIONS, ADAPTERS, REDUCERS, HANGERS, THREADED RODS, ANCHORS, TEMPERATURE AND PRESSURE GAUGES, ETC. SOME SPECIALTIES MAY BE PROVIDED BY OWNER OR CONTROLS CONTRACTOR.
- PIPING SHALL BE PITCHED DOWN IN THE DIRECTION OF FLOW WITH MANUAL AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS. VENTS AND DRAINS SHALL CONTAIN 3/4" BALL VALVE WITH CAP AND HOSE CONNECTION. PROVIDE AUTOMATIC AIR VENTS AT HIGH POINTS IN INACCESSIBLE AREAS AND PIPE TO NEAREST FLOOR DRAIN.
- INSTALL DIELECTRIC UNION AT CONNECTION OF DISSIMILAR METALS.
- INSTALL HEAT TRACE OF PIPING OUTDOORS AND IN AREAS AT RISK OF FREEZE TEMPERATURES.
- DOMESTIC WATER PIPING:
 - 22.1. TYPE L HARD DRAWN SEAMLESS COPPER AND CAST COPPER FITTINGS.
 - 22.2. JOINTS UP TO 1 INCH TINSILVER SOLDER.
 - 22.3. JOINTS OVER 1 INCH SILVER/PHOSPHORUS SOLDER.
 - 22.4. UPON APPROVAL PRO-PRESS JOINTS MAY BE USED PIPING 2 INCH DIAMETER OR LESS.
 - 22.5. STERILIZE SYSTEM IN ACCORDANCE WITH AMERICAN WATER WORK ASSOCIATION AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- HYDRONIC WATER PIPING:
 - 23.1. SCHEDULE 40 BLACK STEEL.
 - 23.2. VICTUALIG AND/OR WELDED CONNECTIONS.
 - 23.3. NPT CONNECTION FOR 2 INCH DIAMETER OR LESS IS ALLOWED.
- VALVES:
 - 24.1. MANUFACTURER: APOLLO
 - 24.2. MATERIAL AND VALVE TYPE
 - 24.3. DOMESTIC, BRONZE, BRASS, OR STAINLESS STEEL

- HYDRONIC/GAS: IN ADDITION TO THE ABOVE, STEEL.
- 3/4 INCH TO 4 INCH DIAMETER: FULL PORT BALL VALVE
- OVER 4 INCH DIAMETER: BUTTERFLY VALVE
- STRAINERS:
 - 25.1. ALL EQUIPMENT CONTAINING HYDRONIC COILS OR HEAT EXCHANGERS SHALL BE PROVIDED WITH A STRAINER IN THE SUPPLY WATER PIPING.
 - 25.2. Y-STRAINER: STAINLESS INTERNAL MESH AND BLOW DOWN VALVE AND CAP. SELECT PROPER MESH SIZE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURE AND APPLICATION.
- CHECK VALVES:
 - 26.1. CHECK SHALL BE INSTALLED AT EQUIPMENT PIPED IN PARALLEL AND CERTAIN PIPING CONFIGURATION SUBJECT TO REVERSE FLOW AND SHORT CYCLING.
- SWING CHECK:
- GAUGES AND SENSORS:
 - 28.1. PRESSURE GAUGE: ASME B40.1, 4-1/2 INCH DIAMETER DRAWN STEEL CASE, PHOSPHOR BRONZE BOURDON TUBE, ROTARY BRASS MOVEMENT, BRASS SOCKET, WITH FRONT CALIBRATION ADJUSTMENT, BLACK SCALE ON WHITE BACKGROUND, ONE PERCENT MID-SCALE ACCURACY, SCALE CALIBRATED IN "F". GAUGE RANGE SUITABLE FOR SYSTEM PRESSURE.
 - 28.2. TEMPERATURE GAUGE: ASTM E1, 12 INCH SCALE, STEAM TYPE, ADJUSTABLE ANGLE, RED APPEARING SPRIT, LEN FRONT TUBE CAST ALUMINUM CASE WITH ENAMEL FINISH AND CLEAR GLASS WINDOW, BRASS STEAM, CAST ALUMINUM ADJUSTABLE JOINT WITH POSITIVE LOCKING DEVICE, 2 PERCENT OF SCALE ACCURACY TO ASTM E77, SCALE CALIBRATED IN "F". GAUGE RANGE SUITABLE FOR SYSTEM TEMPERATURE.
- PIPE INSULATION
 - 10.1. PIPING CONVEYING CHILLED WATER, HYDRONIC HEATING WATER, OR DOMESTIC HOT WATER SHALL BE INSULATED WITH MINERAL FIBER OR FIBERGLASS PREFORMED INSULATION. PRE-FORM FITTINGS FOR VALVES AND FITTINGS.
 - 10.1.1. OWENS CORNING OR EQUAL: ASTM C 547, "K" VALUE OF 0.26 AT 75°F, NON COMBUSTIBLE. FLAME SMOKE DEVELOPMENT: ASTM E84 25/50
 - 10.2. INSULATION THICKNESS: (GREATER IF REQUIRED BY CODE)
 - 10.2.1. PIPING DIAMETER UP TO 3/4 INCH: 3/4 INCH
 - 10.2.2. PIPING DIAMETER 1 INCH TO 1-1/2 INCH: 1 INCH
 - 10.2.3. PIPING DIAMETER 2 INCH AND LARGER: 1-1/2 INCH
 - 10.3. INSULATION SHALL RUN CONTINUOUSLY THROUGH WALLS, PARTISANS, ROOF, AND/OR FLOOR.
- PIPE INSULATION JACKETING
 - 11.1. ALL INSULATED PIPING SHALL INCLUDE A FACTORY APPLIED ALL SERVICE JACKETING WITH VAPOR BARRIER FOR PIPING LOCATED INDOORS.
 - 11.1.1. ALUMINUM JACKETING WITH VAPOR BARRIER FOR PIPING LOCATED OUTDOORS.
 - 11.2. PVC PRE-MOLDED JACKET COVERS FOR VALVES AND FITTINGS.
 - 11.3. ON COLD SYSTEMS, ALL PENETRATIONS OF THE JACKET VAPOR BARRIER AND EXPOSED ENDS SHALL BE SEALED WITH VAPOR BARRIER MASTIC IN A CLEAN AND PROFESSIONAL MANNER. IF HUMIDITY EXCEEDS 90% ADDITIONAL VAPOR RETARDING COATING OR JACKET MAY BE NECESSARY.
- GAS PIPING AND REGULATOR
 - 12.1. SCHEDULE 40 BLACK STEEL. NO FLEXIBLE PIPING IS ALLOWED.
 - 12.2. NPT CONNECTION: PIPING DIAMETERS UP TO 2.5 INCH.
 - 12.3. WELDED CONNECTION: PIPING DIAMETERS 3 INCHES AND OVER.
 - 12.4. GAS FIRE EQUIPMENT SHALL EACH HAVE A BALL VALVE ISOLATOR. INSTALL SEDIMENT TRAP IN VERTICAL DROP PRIOR TO REGULATOR.
 - 12.5. VENT REGULATOR/EQUIPMENT AS REQUIRED BY CODE. INSTALL STAINLESS STEEL INSECT SCREEN OVER VENT TERMINATE OUTDOORS.
 - 12.6. PAINT: RUST INHIBITING, COLOR: YELLOW. LABEL: NATURAL GAS
- PIPING AND CONDUIT SUPPORT
 - 13.1. ALL PIPING AND CONDUIT SHALL BE PROPERLY SUPPORTED. WOOD PRODUCTS ARE NOT PERMITTED FOR SUPPORTS.
 - 13.2. PIPING AND CONDUIT LOCATED ON ROOF OR FLOOR SHALL BE SUPPORTED WITH 8-LINE DURA-BLOCK OR EQUAL. SUPPORT SYSTEM SHALL BE COMPATIBLE WITH ROOFING SYSTEM. PIPING SUPPORTED MORE THAN 24 INCHES AFF SHALL BE SUPPORTED WITH ADJUSTABLE HEIGHT SYSTEMS, ANCHORED TO FLOOR, WITH RAILS AND/OR SADDLES TO SUPPORT AND ANCHOR PIPING. SUPPORT AT 10 FEET ON CENTER AND WITHIN 12 INCHES IN EACH CHANGE OF DIRECTION.
 - 13.3. ALL SUSPENDED PIPING SHALL BE SUPPORTED WITH CLEVIS HANGERS OR TRAPEZE SYSTEM AT 10 FEET ON CENTER AND WITHIN 12 INCHES IN EACH CHANGE OF DIRECTION. PROVIDE ADDITIONAL HANGERS OR SUPPORTS TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT. ALL SUPPORTS SYSTEMS SHALL BE SUITABLE FOR WEIGHT INTENDED.
 - 13.4. ALL INSULATED PIPING SHALL HAVE SADDLES AT EACH HANGER (3 PIPE DIAMETER IN LENGTH).
 - 13.5. IT IS NOT ACCEPTABLE TO SUPPORT FROM EXISTING PIPE, CONDUIT, OR DUCTWORK.
- COMBUSTION EQUIPMENT VENTING
 - 1. CATEGORY IV APPLIANCE - DIRECT VENT EQUIPMENT
 - 1.1. COMBUSTION AIR VENTING MATERIAL SHALL BE SCHEDULE PVC, CPVC, OR STAINLESS STEEL WITH GLUED/WELDED JOINTS.
 - 1.2. FLUE EXHAUST VENTING MATERIAL SHALL BE SCHEDULE CPVC OR STAINLESS STEEL WITH GLUED/WELDED JOINTS.
 - 1.3. FITTINGS SHALL BE CLEANED, PRIMED AND GLUED PER INDUSTRY STANDARDS AND MANUFACTURERS RECOMMENDATIONS.
 - 2. REFERENCE MANUFACTURERS LITERATURE FOR ROUTING LIMITATIONS, TERMINATION METHODS, AND VENTING CAPS. INSTALL TEE TYPE VENT CAP ON FLUE EXHAUST TERMINATION. A.
- ELECTRICAL AND CONTROLS
 - 1. MAKE SAFE ANY USED ELECTRICAL SERVICE. LABEL PANEL AS SPARE.
 - 2. ALL ELECTRICAL CABLING SHALL BE INSTALLED FROM JUNCTION BOX OR ELECTRICAL PANEL IN HARD METAL CONDUIT.
 - 3. ALL OUTDOOR ELECTRICAL AND CONTROLS SHALL BE ENCLOSED IN WEATHER PROOF ENCLOSURES.
 - 4. FINAL EQUIPMENT CONNECTION IS ALLOWED IN FLEXIBLE LIQUID-TIGHT CONDUIT OF NO MORE THAN 3 FEET.
 - 5. CONDUIT SHALL BE BONDED IF NECESSARY. CONTRACTOR SHALL FIELD VERIFY.
 - 6. WIRE SPLICING MUST BE ENCLOSED IN A CODE APPROVE ENCLOSURE.
 - 7. CONTROL WIRING SHALL BE FLENUM RATED. INSTALL IN HARD METAL CONDUIT IF REQUIRED BY LOCAL CODE AND WHEN INSTALL OUTDOORS.
- ELECTRIC MOTORS
 - 1. MOTORS UTILIZING VARIABLE FREQUENCY DRIVES SHALL HAVE BEARING PROTECTION RINGS (GROUNDING RINGS) INSTALLED.
 - 2. ALL MOTORS OPERATING HVAC EQUIPMENT SHALL BE OF THE NON-OVERLOADING TYPE.
- IDENTIFICATION
 - 1. ALL EQUIPMENT AND PIPING SHALL BE LABELED. EQUIPMENT SHALL BE IDENTIFIED WITH A PLASTIC UV RESISTANT NAME PLATE WITH BLACK FOREGROUND AND WHITE LETTERING. PIPING SHALL BE LABELED WITH FLUID TYPE ABBREVIATION AND DIRECTIONAL ARROWS. PIPING SHALL BE PAINTED TO MATCH EXISTING. LABELING SHALL BE PER ANSI/ASME STD A13.1.
- EQUIPMENT INSTALLATION AND CONNECTIONS
 - 1. MAINTAIN CLEARANCES AROUND EQUIPMENT PER MANUFACTURERS' REQUIREMENTS.

- ALL EQUIPMENT CONNECTIONS SHALL BE PER THE MANUFACTURERS' RECOMMENDATIONS, STATE, AND LOCAL CODE. PROVIDE AND INSTALL ALL SPECIALTIES AS REQUIRED BY THE MANUFACTURE.
- ALL FINAL CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLANGES OR UNIONS.
- CONTRACTOR SHALL CONFIGURE ALL CONNECTIONS TO BE EASILY REMOVABLE FOR MAINTENANCE IF NECESSARY.
- DI-ELECTRIC UNION SHALL BE USED AT THE CONNECTION OF DISSIMILAR METALS.
- PROVIDE FLEX CONNECTION TO ALL BASE MOUNTED HYDRONIC PUMPS OVER 10 HP AND AIR SIDE EQUIPMENT.

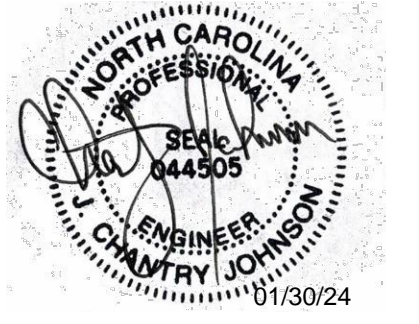
TEST, ADJUSTMENT, AND BALANCE

- ALL HVAC SYSTEM PERFORMANCE SHALL BE TESTED, ADJUSTED, AND BALANCED (TAB) BY A CERTIFIED THIRD PARTY AABC OR NEBB CONTRACTOR. TEST EQUIPMENT ACCURACY/CALIBRATION SHALL MEET THE STANDARDS ESTABLISHED BY AABC OR NEBB.
- THE TAB CONTRACTOR SHALL MAINTAIN CERTIFICATION THROUGHOUT THE ENTIRE CONTRACT PERIOD.
- THE TAB CONTRACTOR SHALL PLAN AND ISSUES A FINAL REPORT IN ACCORDANCE WITH AABC OR NEBB. THE FINAL REPORT SHALL BE SIGNED AND BEAR THE SEAL OF THE TAB STANDARD. FINAL BALANCE SHALL BE WITHIN 10% OF VALUE SPECIFIED.
- TAB CONTRACTOR SHALL PERFORM ALL NECESSARY TESTING AND ADJUSTMENTS UNTIL FINAL ACCEPTANCE BY PROJECT MANAGER.



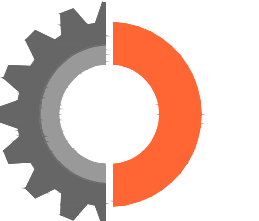
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PROJECT TEAM

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Date	Description
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01/30/2024 ISSUE FOR CONSTRUCTION

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

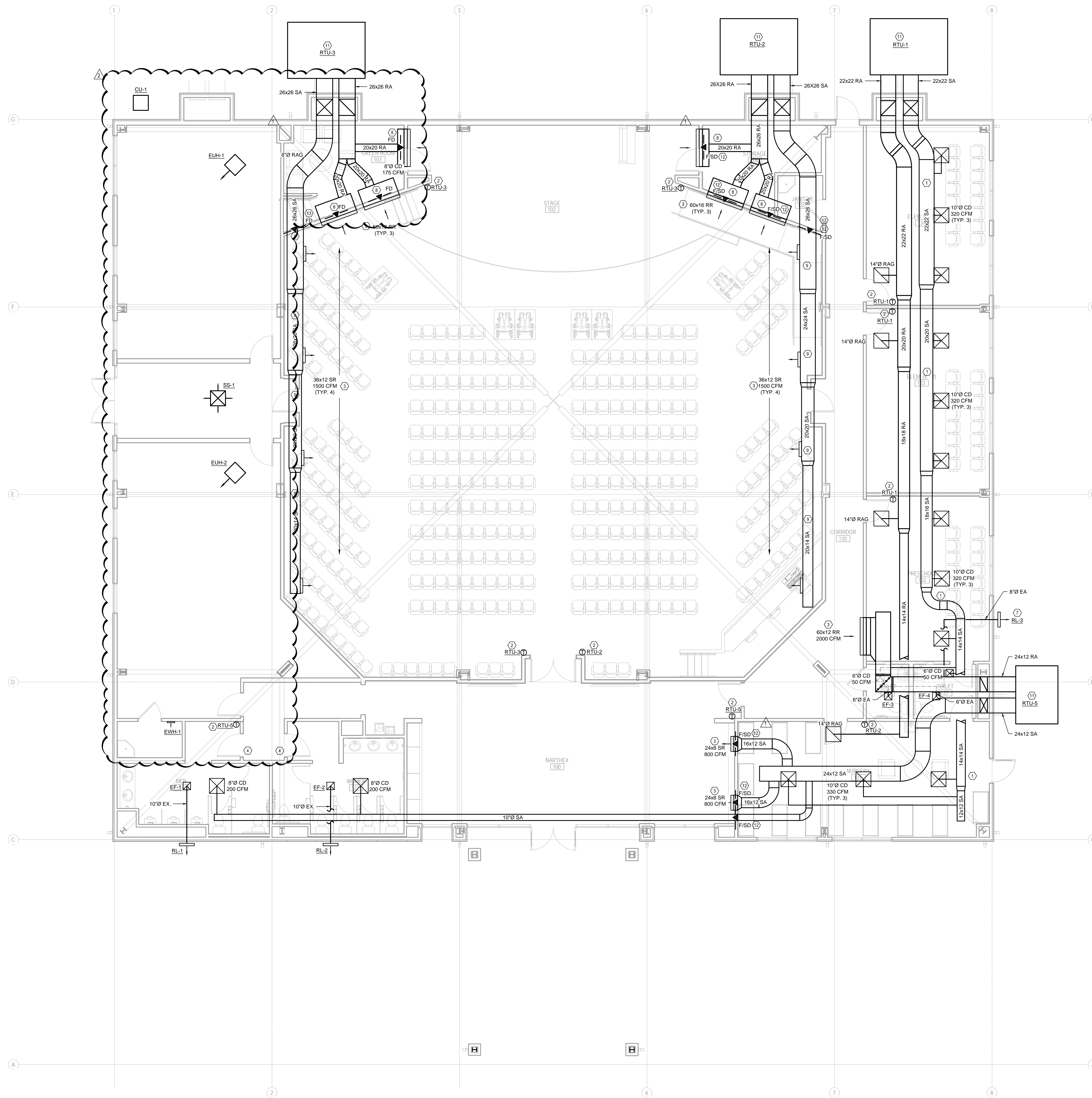
Description

SPECIFICATIONS - HVAC

Scale

NA

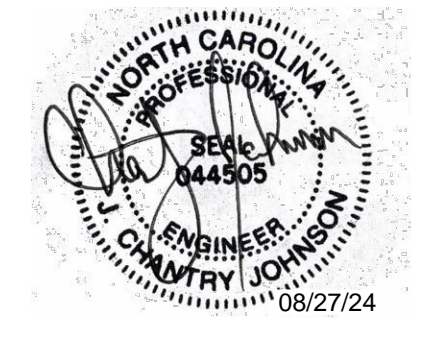
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- LEGEND NOTES
(APPLY TO THIS SHEET ONLY)
- 1 COORDINATE LOW PRESSURE DUCT WORK LOCATION AND SIZE WITH STRUCTURAL BEAMS. OFFSET/FLATTEN AS REQUIRED. SEE SPECIFICATION SECTION 16.1 FOR DUCT SIZING CRITERIA. LOCATION SHOWN IS DIAGRAMMATIC AND NOT INTENDED TO SHOW EXACT, FINAL LOCATION.
 - 2 PROVIDE AVERAGING THERMOSTAT IN APPROXIMATE LOCATION. FINAL STYLE AND LOCATION SHALL BE APPROVED BY ARCHITECT AND OWNER.
 - 3 FINAL STYLE, LOCATION, ELEVATION AND FINISH SHALL BE APPROVED BY THE ARCHITECT AND OWNER.
 - 4 PROVIDE LOUVER IN DOOR FOR TRANSFER AIR. LOUVER SHALL HAVE A MINIMUM FREE AREA OF 1.0 SQFT. FINAL STYLE AND FINISH SHALL BE APPROVED BY THE ARCHITECT AND OWNER.
 - 5 PROVIDE DOMESTIC RANGE HOOD IN THIS APPROXIMATE LOCATION. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
 - 6 WARNINGS OF FOODS ONLY IN THIS AREA. THERE SHALL BE NO COOKING ON THE PREMISES IN COMPLIANCE WITH THE NORTH CAROLINA MECHANICAL CODE.
 - 7 RELIEF LOUVER TO BE MOUNTED UP HIGH ON WALL, 10 FT AWAY FROM THE OUTSIDE AIR OF THE GROUND MOUNTED PACKAGED RTU IN COMPLIANCE WITH THE NORTH CAROLINA MECHANICAL CODE.
 - 8 PROVIDE FULL SIZE PLENUM BOX ON THE BACK OF THE RETURN REGISTER. COORDINATE WITH STRUCTURE.
 - 9 DUCT WORK SHALL BE MOUNTED IN ARCHITECTURAL SOFFIT. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS. COORDINATE WITH FINAL CONSTRUCTION. SEE SPECIFICATION SECTION 16.1 FOR DUCT SIZING CRITERIA FOR ALTERNATE DUCT SIZES AS REQUIRED.
 - 10 PROVIDE FIRE WRAP OR OTHER PREAPPROVED UL ASSEMBLY AROUND DUCT WORK AS A MEANS TO SEPARATE THE DUCT WORK FROM THE EXIST PASSAGEWAY IN COMPLIANCE WITH THE NORTH CAROLINA BUILDING AND MECHANICAL CODES AS ALLOWED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
 - 11 HVAC UNIT SHALL BE MOUNTED ON MINIMUM OF A 4" THICK CONCRETE HOUSE KEEPING. COORDINATE FINAL HOUSE KEEPING PAD LOCATION AND SIZE WITH PURCHASED EQUIPMENT. DUCT TRANSITIONS INTO BUILDING AND FINAL INSTALLED CONDITIONS.
 - 12 PENETRATIONS THROUGH HORIZONTAL EXITS SHALL BE PROTECTED WITH A FIRE/SMOKE DAMPER IN COMPLIANCE WITH NCMC 607.5.1. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS.
 - 13 DUCT SHALL PASS PERPENDICULAR TO WALL FOR INSTALLATION OF FIRE/SMOKE DAMPER. COORDINATE WITH WALL FRAMING. OFFSET TRANSITION DUCT AS REQUIRED.

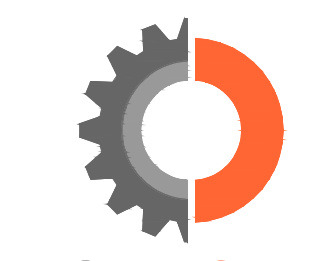


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PROJ# 23253

Date	Description
01/30/2024	ISSUE FOR CONSTRUCTION
05/03/2024	ARCHITECTURAL REVISION 1
10/14/2024	RTAP NO. 1

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

FLOOR PLAN - HVAC

Scale

SEE PLANS

M01.01

1 FLOOR PLAN - HVAC
M01.01 SCALE: 3/16" = 1'-0"

11/30/2023 4:49:42 PM Z:\Private\Andrew.mcdaniel\Revit Local\2024_00_3D Community Church_andrew.mcdaniel\FLOOR PLAN

Project Name: 23253 - 3D COMMUNITY CHURCH - 12-08-23
Ventilation Sizing Summary for RTU-1
 01/19/2024 01:55PM

1. Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2016
Design Condition	Heating operation
Occupant Diversity (D)	5.000
Unrecorrected Outdoor Air Intake (You)	491 CFM
System Ventilation Efficiency (Ev)	0.451
Outdoor Air Intake (Vol)	754 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vps)	Space Floor Area (ft²) (A2)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ea)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
ELEM (3-5)	1	1041	384.0	0.12	13.5	10.00	0.8	228	181	0.902
ELEM (K-2)	1	949	363.0	0.12	9.8	10.00	0.8	162	140	0.927
PRESCHOOL	1	914	352.0	0.18	8.8	10.00	0.8	190	152	0.911
PRESCHOOL TOILET	1	64	56.0	0.18	1.4	10.00	0.8	30	24	0.651
HALL TOILET	1	38	50.0	0.08	0.3	5.00	0.8	5	4	0.971
NURSERY	1	1125	501.0	0.18	12.5	10.00	0.8	269	213	0.860
Totals (incl. Space Multipliers)		4130							491	0.651

Project Name: 23253 - 3D COMMUNITY CHURCH - 12-08-23
Ventilation Sizing Summary for RTU-2&3
 01/19/2024 02:08PM

1. Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2016
Design Condition	Heating operation
Occupant Diversity (D)	1.000
Unrecorrected Outdoor Air Intake (You)	2309 CFM
System Ventilation Efficiency (Ev)	0.843
Outdoor Air Intake (Vol)	2450 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vps)	Space Floor Area (ft²) (A2)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ea)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
SANCTUARY	1	10538	4800.0	0.06	400.0	5.00	0.8	2860	2289	0.943
STORAGE NORTH	1	193	141.0	0.08	1.0	5.00	0.8	17	15	1.127
JANITOR NORTH	1	51	39.0	0.06	1.0	5.00	0.8	9	7	1.062
Totals (incl. Space Multipliers)		10789							2309	0.943

Project Name: 23253 - 3D COMMUNITY CHURCH - 12-08-23
Ventilation Sizing Summary for RTU-5
 01/19/2024 02:04PM

1. Summary

Ventilation Sizing Method	ASHRAE Std 62.1-2016
Design Condition	Heating operation
Occupant Diversity (D)	0.750
Unrecorrected Outdoor Air Intake (You)	153 CFM
System Ventilation Efficiency (Ev)	0.790
Outdoor Air Intake (Vol)	194 CFM

2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Supply Air (CFM) (Vps)	Space Floor Area (ft²) (A2)	Area Outdoor Air Rate (CFM/ft²) (Ra)	Time Averaged Occupancy (Pz)	People Outdoor Air Rate (CFM/person) (Rp)	Air Distribution Effectiveness (Ea)	Space Outdoor Air (CFM) (Voz)	Breathing Zone Outdoor Air (CFM) (Vbz)	Space Ventilation Efficiency (Evz)
Zone 1										
WEST HALL/NARTH/EXLOB	1	2438	1400.0	0.06	8.0	5.00	0.8	155	124	0.990
MENS	1	182	208.0	0.08	1.0	5.00	0.8	22	19	0.933
WOMENS	1	183	223.0	0.08	1.1	5.00	0.8	24	19	0.925
JANITOR WEST	1	31	28.0	0.06	1.0	5.00	0.8	8	7	0.790
Totals (incl. Space Multipliers)		2834							153	0.790

INTAKE/EXHAUST HOOD SCHEDULE

MARK	LOCATION	TYPE	AIR FLOW	FREE AREA	VELOCITY (1)	APD (1)	DAMPER TYPE	BASIS OF DESIGN (2)	NOTES
			CFM	SQ. FT.	FPM	IN			
RL-1	WALL	RELIEF	375	1	600	0.1	GRAVITY BD	GREENHECK ESD	3
RL-2	WALL	RELIEF	375	1	600	0.1	GRAVITY BD	GREENHECK ESD	3
RL-3	WALL	RELIEF	150	0.25	600	0.1	GRAVITY BD	GREENHECK ESD	3

NOTES:
 1) MAXIMUM, NOT TO EXCEED.
 2) PROVIDE BASIS OF DESIGN OR EQUAL.
 3) PROVIDE MOTOR OPERATED BACKDRAFT DAMPER AND BIRDSCREEN.

AIR DEVICE SCHEDULE

MARK	TYPE	MAX APD (1)	MOUNTING	NECK SIZE	NC (1)	BASIS OF DESIGN (2)	NOTES
		IN WVG		IN			
CD	PERFORATED	0.100	CEILING	SEE PLANS	30	PRICE PDF	4.5,6
RG	PERFORATED	0.100	CEILING	SEE PLANS	30	PRICE PFRF	4.5,7
EG	PERFORATED	0.100	CEILING	SEE PLANS	30	PRICE	4.5
SR	SUPPLY REGISTER	0.100	DUCT	NA	30	PRICE SDG	3.5
SD	ACT SLOT DIFFUSER	0.100	CEILING	SEE PLANS	30	PRICE TBD	3.5,6

NOTES:
 1) MAXIMUM NOT TO EXCEED VALUE.
 2) PROVIDE BASIS OF DESIGN OR EQUAL.
 3) COORDINATE DIFFUSER/GRILLE COLOR WITH ARCHITECT PRIOR TO ORDERING.
 4) PROVIDE WITH OPPOSED BLADE DAMPER.
 5) SEE MECHANICAL AND ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND INFORMATION.
 6) THE BACK OF ALL SUPPLY AIR DISTRIBUTION SHALL BE INSULATED OR LINED TO PREVENT CONDENSATION.
 7) PROVIDE WITH PLENUM SOUND ATTENUATING BOOT. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

ELECTRIC WALL/UNIT HEATER SCHEDULE

MARK	LOCATION	TYPE	MIN CAPACITY	ELECTRICAL				BASIS OF DESIGN (3)	NOTES
			KW	VOLT	PHASE	MCA	MOCP		
EWH-1	JANITORS CLOSET	RECESSED WALL HEATER	3	208	1	14	(4)	QMARK AWH	2
EUH-1,2	OPEN AREAS	UNIT HEATER	5	208	3	24	(4)	QMARK MUH	

NOTES:
 1) FINAL SYSTEMS SHALL MEET OR EXCEED THESE VALUES.
 2) PROVIDE UNIT MOUNTED THERMOSTAT, WALL RECESS KIT AND INTEGRAL DISCONNECT.
 3) PROVIDE BASIS OF DESIGN OR EQUAL.
 4) MOCP NOT PUBLISHED IN MANUFACTURERS INFORMATION.

FAN SCHEDULE

MARK	LOCATION	AIR FLOW (2)	ESP (2)	FAN		MOTOR				BASIS OF DESIGN (1)	NOTES
				TYPE	DRIVE	NOMINAL POWER HP	PHASE	VOLT	SPEED CONTROL		
EF-1	CEILING	375	0.25	CEILING	DIRECT	224 W	1	115	YES	GREENHECK	3,4
EF-2	CEILING	375	0.25	CEILING	DIRECT	224 W	1	115	YES	GREENHECK	3,4
EF-3	CEILING	75	0.25	CEILING	DIRECT	15 W	1	115	YES	GREENHECK	3,4
EF-4	CEILING	75	0.25	CEILING	DIRECT	15 W	1	115	YES	GREENHECK	3,4

NOTES:
 1) PROVIDE BASIS OF DESIGN OR EQUAL.
 2) DESIGN MINIMUM. FINAL SELECTIONS SHALL MEET OR EXCEED THIS VALUE.
 3) PROVIDE FAN GRAVITY BACKDRAFT DAMPER AND SPEED CONTROLLER. SPEED CONTROLLER SHALL BE USED TO BALANCE THE FAN.
 4) FAN SHALL BE INTERLOCKED WITH RESTROOM LIGHTING.

PACKAGED AIR CONDITIONER SCHEDULE (ROOFTOP)

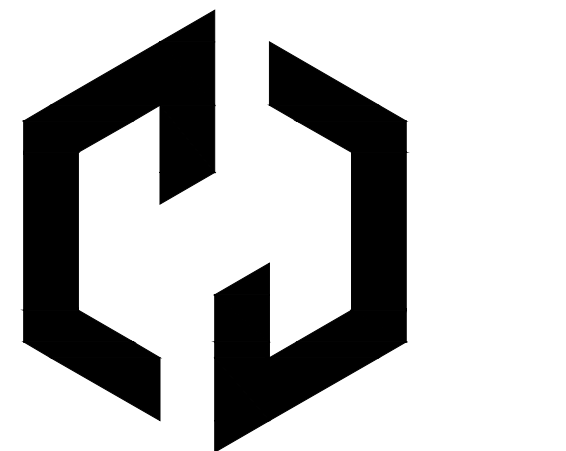
MARK	LOCATION	AREA AND/OR BLDG SERVED	TYPE	TOTAL SUPPLY AIR FLOW	MIN. OUTSIDE AIR FLOW	EXT STATIC PRESSURE (1)	COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL DATA				BASIS OF DESIGN (7)	NOTES		
							MIN TOTAL CAPACITY (3)	MIN SENS CAPACITY (3)	EAT		OSA DESIGN TEMP	MIN. HEAT CAPACITY (3)	EAT DB	LAT DB	OSA DESIGN TEMP	UNIT POWER CONNECTION		MCA			MOCP	
									Db	Wb						Db	Wb					VOLT
RTU-1	GROUND	EDUCATION	ELECTRIC	4000	800	0.75	114	87	78	67	58	58	95	32	65	85	208	3	153	175	TRANE TSJ120	4.5,6,8
RTU-2,3	GROUND	SANCTUARY	ELECTRIC	6000	1250	0.75	171	120	78	67	58	58	95	48	32	85	208	3	184	175	TRANE TSJ180	4.5,6,8
RTU-4	REMOVED FROM SCOPE - VALUE ENGINEERING BY OWNERSHIP & CONTRACTING TEAM AND IS NOT RECOMMENDED BY THE EOR.																					
RTU-5	GROUND	COMMON AREAS	ELECTRIC	2000	200	0.75	51	52	78	67	58	58	95	16	65	85	208	3	69	70	TRANE TSC060	4.5,6,8

NOTES:
 1) THIS IS THE SP EXTERNAL TO THE ENTIRE UNIT ASSEMBLY (WET COIL, CASING, CLEAN FILTERS, AND FURNACE LOSSES ARE NOT INCLUDED IN THIS EXT. SP).
 2) THIS IS THE MINIMUM OUTPUT CAPACITY (IN MBH FOR GAS AND IN KW FOR ELEC).
 3) THIS IS A DESIGN MINIMUM, NOT UNIT CAPACITY.
 4) PROVIDE UNIT WITH SMOKE DETECTORS IN COMPLIANCE WITH THE NCMC AND LOCAL AHJ.
 5) PROVIDE UNIT WITH ECONOMIZER AND BAROMETRIC RELIEF.
 6) PROVIDE UNIT WITH HINGED ACCESS DOORS AND SECONDARY MEANS OF CONDENSATE DISPOSAL AS REQUIRED BY NCMC 307.2.3 METHOD 1,2,3 OR 4.
 7) PROVIDE BASIS OF DESIGN OR EQUAL.
 8) PROVIDE UNIT WITH SINGLE ZONE VAV FUNCTIONALITY.

SPLIT SYSTEM AIR CONDITIONER SCHEDULE

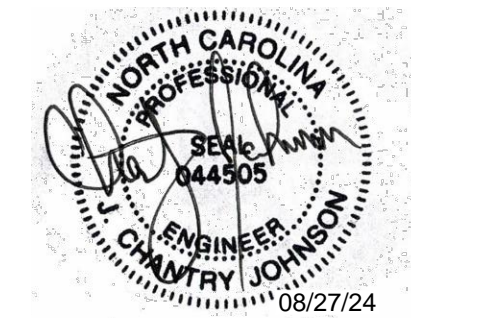
AHU MARK	CONDENSING UNIT MARK	AREA AND/OR BLDG SERVED	TYPE	NOMINAL TOTAL SUPPLY AIR FLOW	MIN. OUTSIDE AIR FLOW (3)	EXT STATIC PRESSURE (1)	COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL DATA				BASIS OF DESIGN (2)	REMARKS			
							MIN TOTAL CAPACITY (3)	MIN SENS CAPACITY (3)	EAT		OSA DESIGN TEMP	MIN. HEAT CAPACITY (3)	EAT DB	LAT DB	OSA DESIGN TEMP	INDOOR UNIT		OUTDOOR UNIT					
									Db	Wb						VOLT	PHASE	VOLT			PHASE	MCA	MOCP
SS-1	CU-1	CORRIDOR	CASSETTE MINI-SPLIT	400	0	NA	10000	8000	80	67	95	10	68	95	18	24 VDC	NA	208	1	9	15	MITSUBISHI SLZS/SLZ	5.6,7,8

NOTES:
 1) THIS IS THE SP EXTERNAL TO THE ENTIRE UNIT ASSEMBLY (WET COIL, CASING, CLEAN FILTERS, AND FURNACE LOSSES ARE NOT INCLUDED IN THIS EXT. SP).
 2) PROVIDE BASIS OF DESIGN OR APPROVED EQUAL.
 3) THESE ARE DESIGN MINIMUMS, NOT UNIT CAPACITIES. ALL EQUIPMENT SHALL MEET OR EXCEED SCHEDULED MINIMUMS.
 4) NOT USED.
 5) PROVIDE 7 DAY PROGRAMMABLE THERMOSTAT.
 6) DISCONNECT BY ELECTRICIAN.
 7) PROVIDE CONDENSATE PUMP IF CONDENSATE CAN NOT BE GRAVITY DRAINED.
 8) PROVIDE UNIT WITH LOW AMBIENT HEATING CAPACITY.



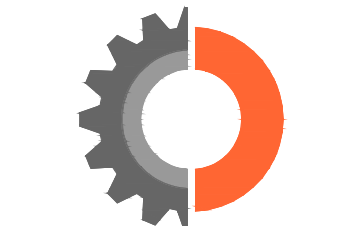
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 PROJ# 23253

Date Description

01/30/2024 ISSUE FOR CONSTRUCTION
 10/14/2024 RTAP NO. 1

Project Name



community church
 making church come alive
 658 GRAHAM ROAD
 SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

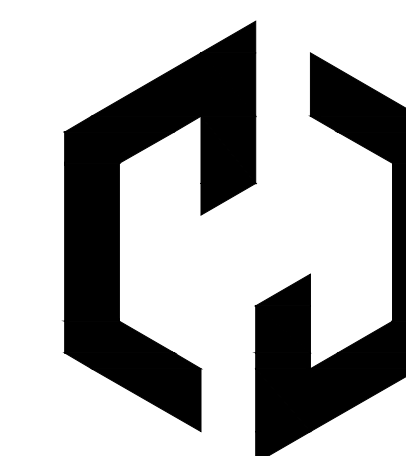
SCHEDULES - HVAC

Scale

NA

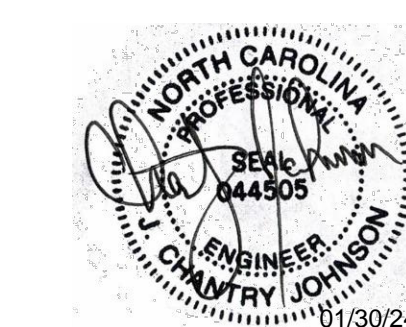
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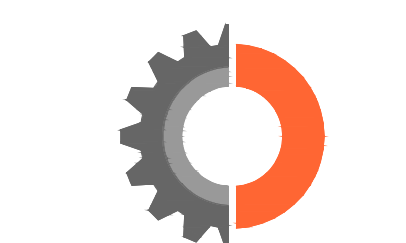
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Date Description

01/30/2024 ISSUE FOR CONSTRUCTION

Project Name



community church
making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

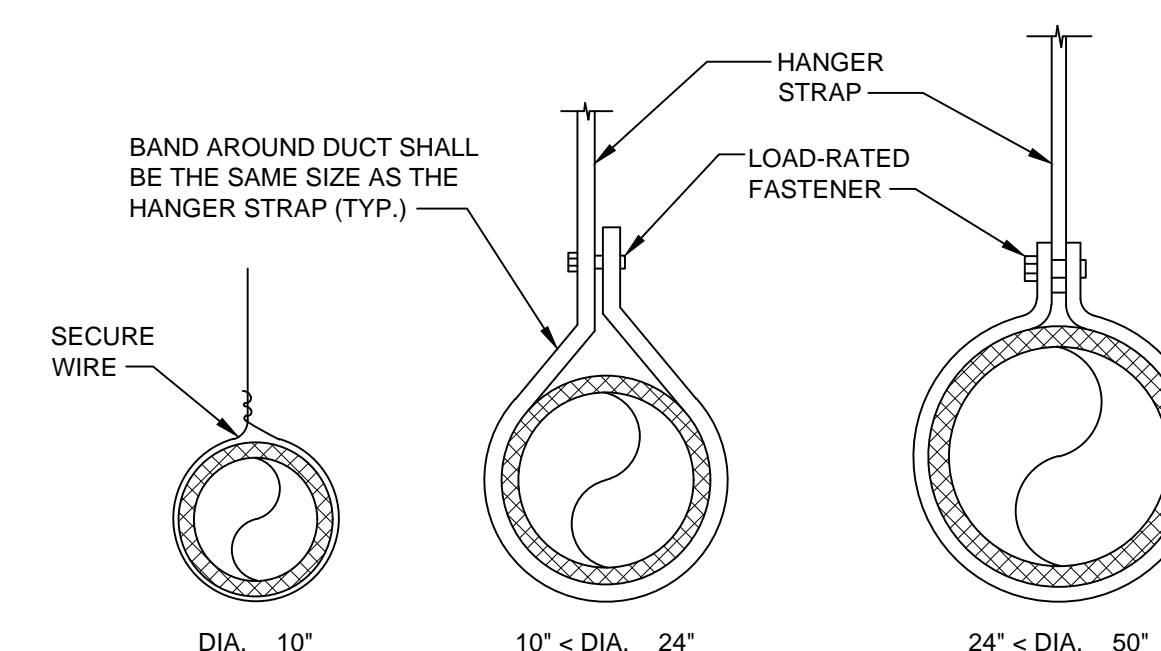
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DETAILS - HVAC

Scale

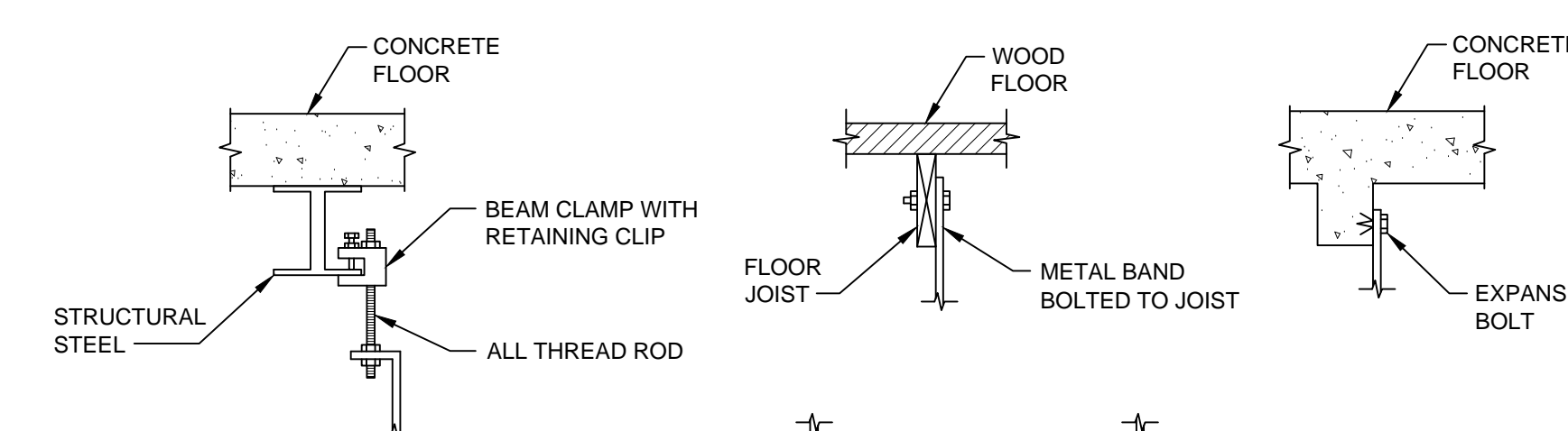
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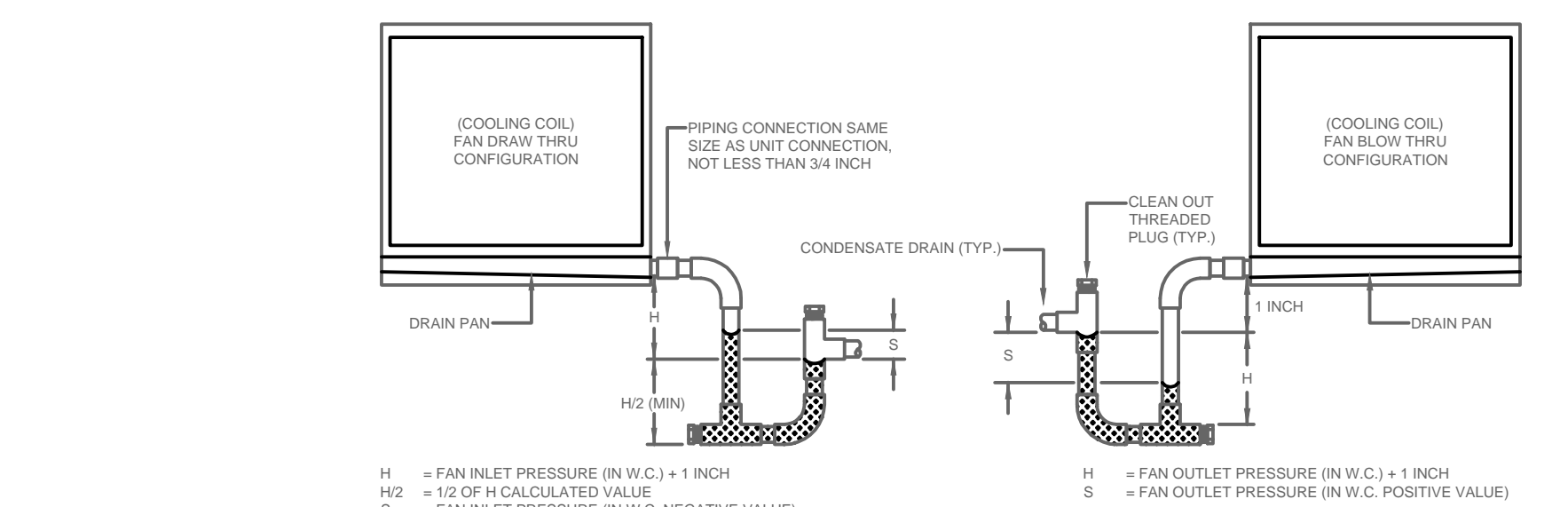
NOTE:
HANGERS SHALL NOT DEFORM DUCT SHAPE.

4 ROUND DUCTWORK SUPPORT DETAIL
M07.01 SCALE: NTS



3 LOW PRESSURE RECTANGULAR DUCTWORK SUPPORT DETAIL
M07.01 SCALE: NTS

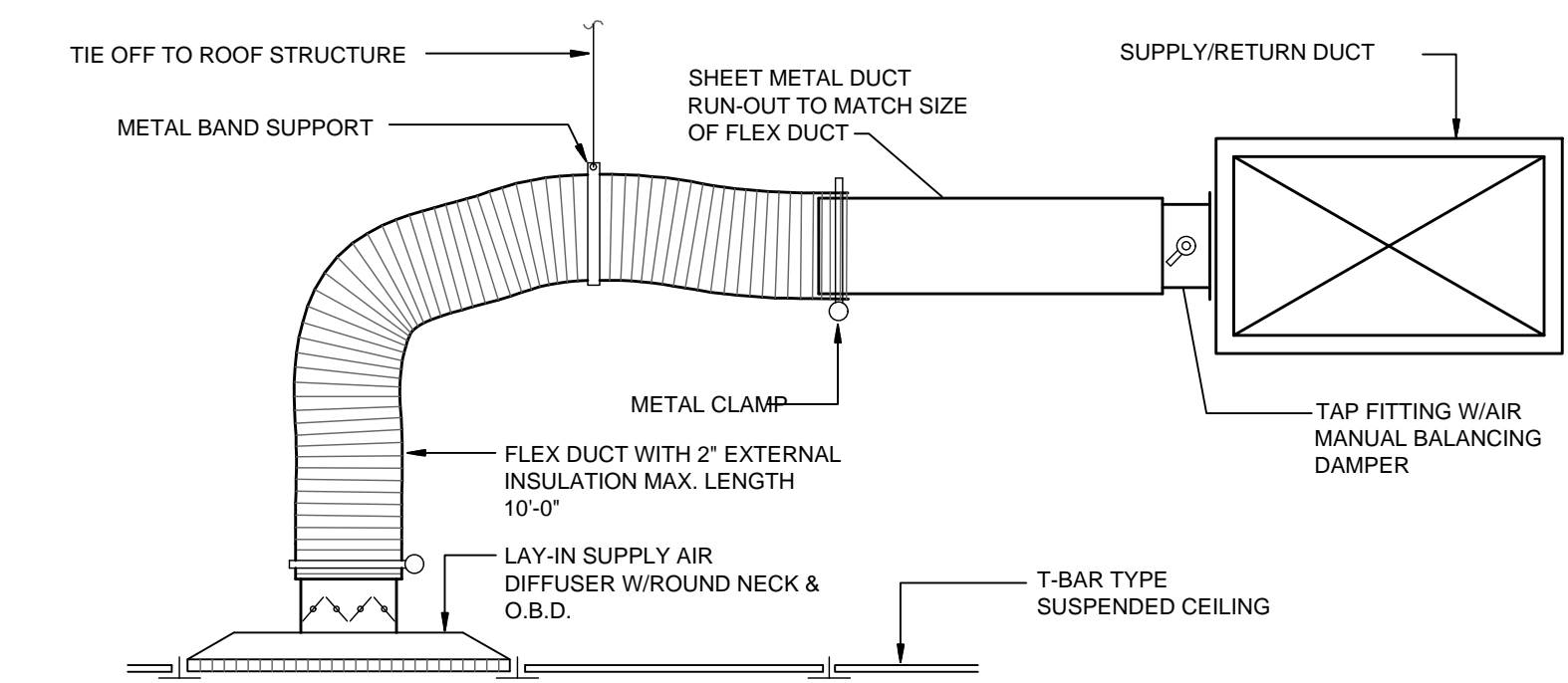
- NOTES:
1. ALL DUCTWORK HANGER SPACING AND SIZING SHALL BE IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
 2. DUCTS SHALL NOT BE HUNG FROM OR SUPPORTED BY HUNG CEILING.
 3. PROVIDE SUPPLEMENTAL BRACING TO LIMIT THE AMPLITUDE OF WALL VIBRATION AND WALL DEFLECTION IN ACCORDANCE WITH PROJECT SEISMIC AND VIBRATION REQUIREMENTS.



PIPE SIZE (INCHES)	PIPE SIZE	NOT RECOMMENDED
1/4"	1/4"	NOT RECOMMENDED
1/2"	1/2"	NOT RECOMMENDED
3/4"	3/4"	NOT RECOMMENDED
1"	1"	NOT RECOMMENDED
1-1/4"	1-1/4"	NOT RECOMMENDED
1-1/2"	1-1/2"	NOT RECOMMENDED
2"	2"	NOT RECOMMENDED
2-1/2"	2-1/2"	NOT RECOMMENDED
3"	3"	NOT RECOMMENDED
4"	4"	NOT RECOMMENDED
6"	6"	NOT RECOMMENDED

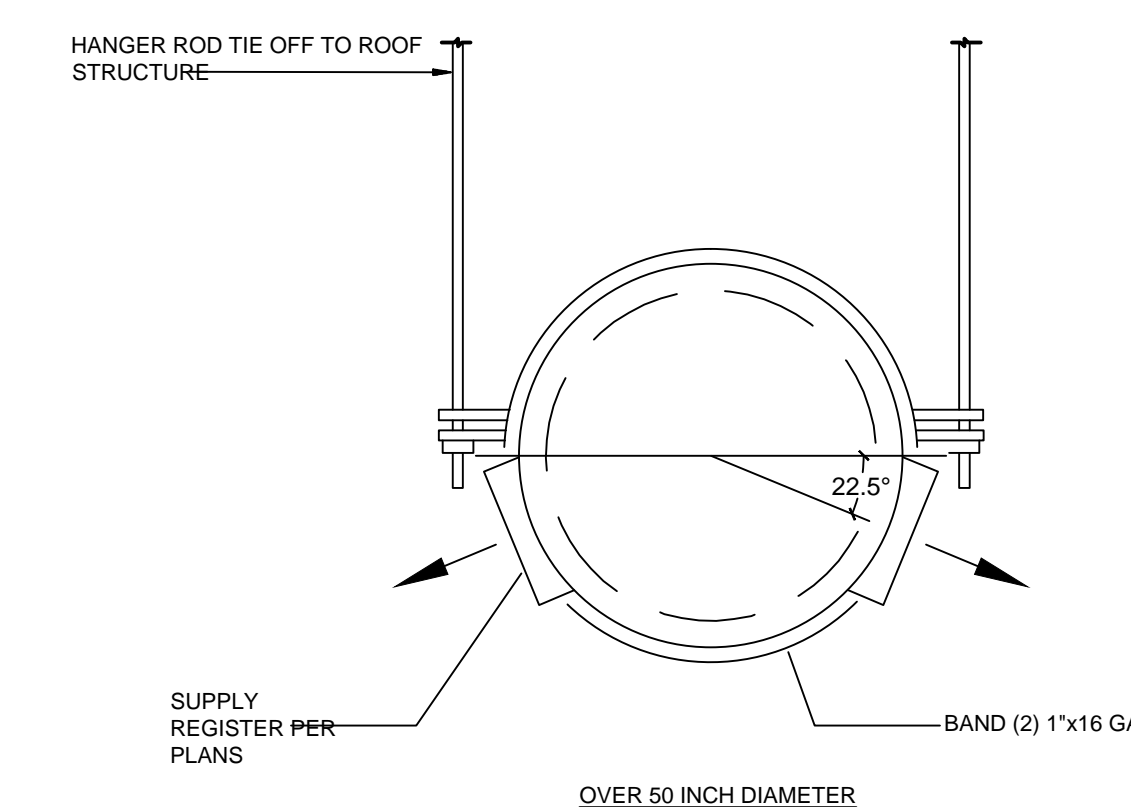
- NOTES:
1. REFERENCE SUBMITTALS FOR FAN PRESSURE. ADDITIONAL 1 INCH ACCOUNTS FOR FIELD INSTALLED CONDITIONS: FILTER LOADING ON DRAW THRU CONFIGURATION AND HIGHER DUCTWORK PRESSURE DROP IN BLOW THRU CONFIGURATION.
 2. EQUIPMENT SHALL BE ELEVATED SUFFICIENTLY TO ALLOW FOR PROPER P-TAP INSTALLATION.
 3. PIPE CONDENSATE TO NEAREST ROOFPLOOR DRAIN. COORDINATE WITH LOCAL JURISDICTION/UTILITY TERMINATION OF CONDENSATE TO SANITARY AND/OR SEWER.
 4. INSULATE CONDENSATE PIPING LOCATED INDOORS WITHIN A CEILING RETURN PLENUM OR AREA WITH HIGH HUMIDITY.
 5. MATERIAL TYPE: L COPPER.
 6. PROVIDE FLOAT SWITCH IN DRAIN PAN OR PROVIDE ALTERNATE MEANS TO MEET THE INTENT OF 2018 NCMC 307.2.3 OR APPLICABLE CODE.

2 CONDENSATE DRAIN DETAIL
M07.01 SCALE: NTS

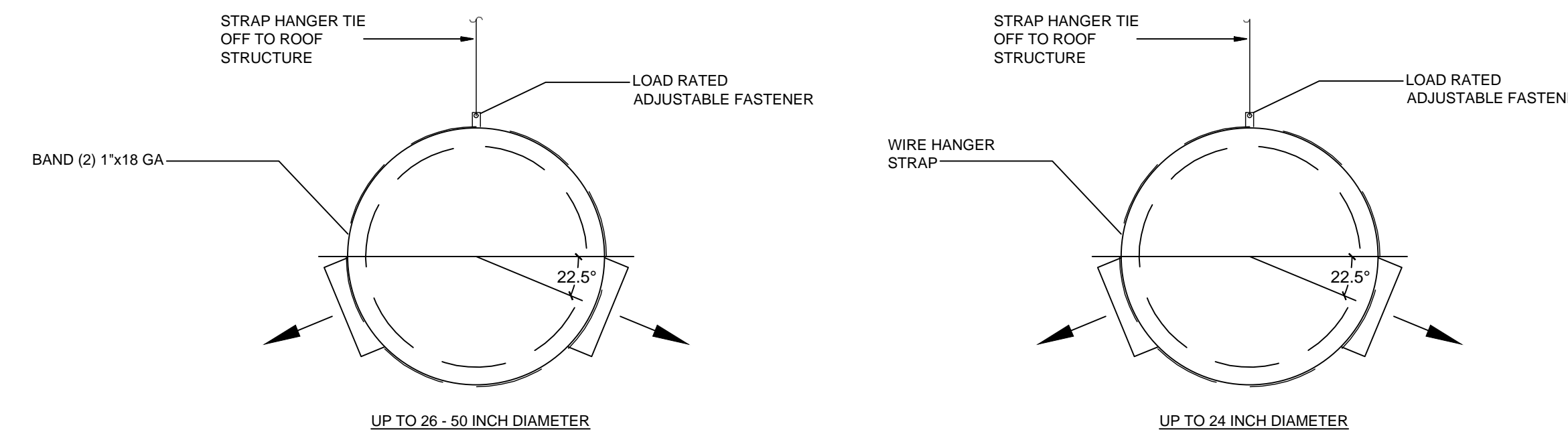


1 AIR DISTRIBUTION DETAIL
M07.01 SCALE: NTS

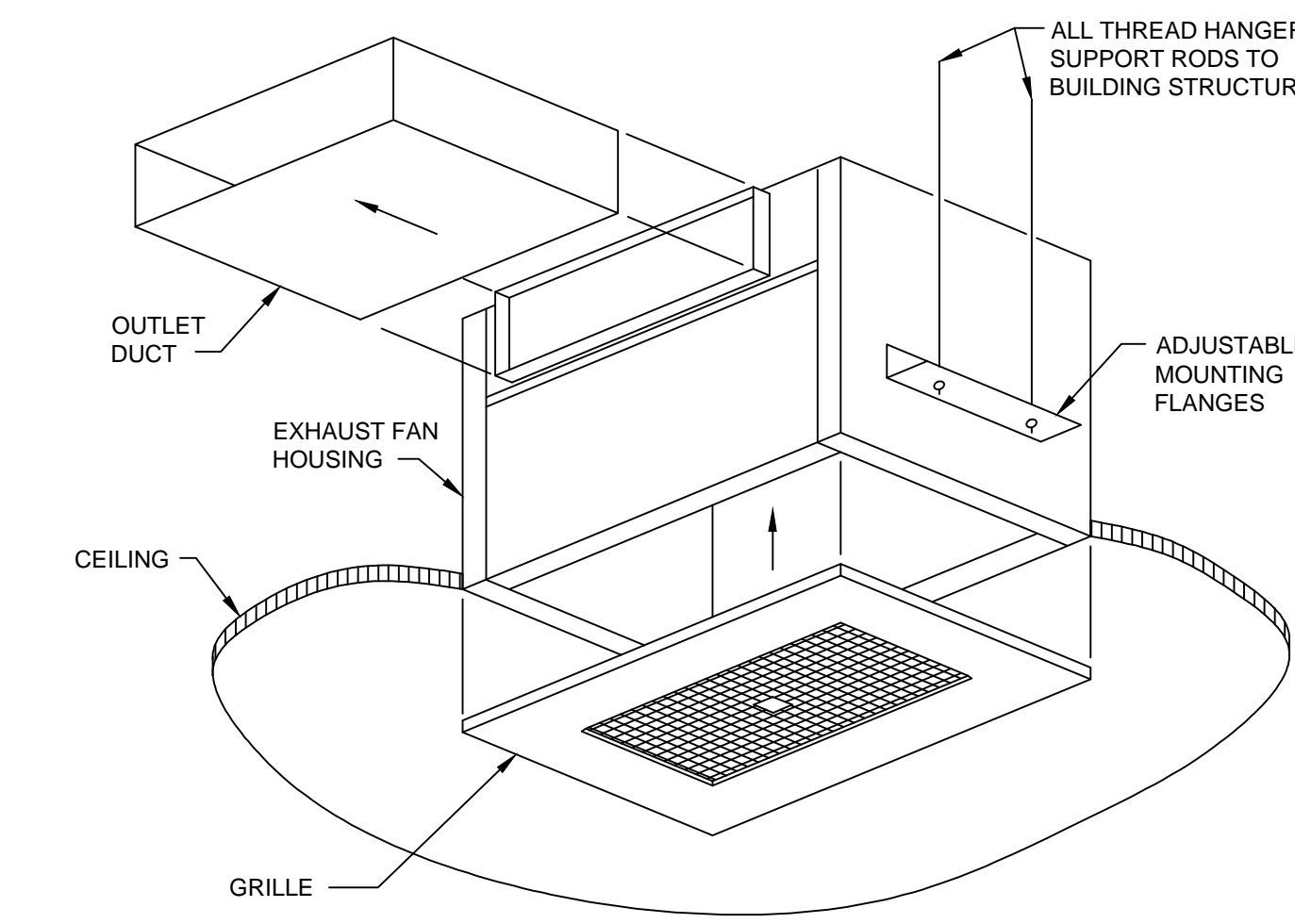
- NOTE:
1. ALL MANUAL VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILING (INCLUDING CALKED ACOUSTICAL CEILING TILE) SHALL BE PROVIDED WITH REMOTE MEANS OF BALANCING.
 2. INSULATE THE BACK OF ALL SUPPLY AIR DIFFUSERS INSTALLED IN DUCTED RETURN SYSTEMS OR ARE SUBJECT TO CONDITIONS WHERE CONDENSATION CAN OCCUR.
 3. ALL ITEMS INSTALLED IN A RETURN AIR PLENUM SHALL BE PLENUM RATED.
 4. PROVIDE SUPPORTS FOR DUCT WORK IN ACCORDANCE WITH NCMC 603.10.



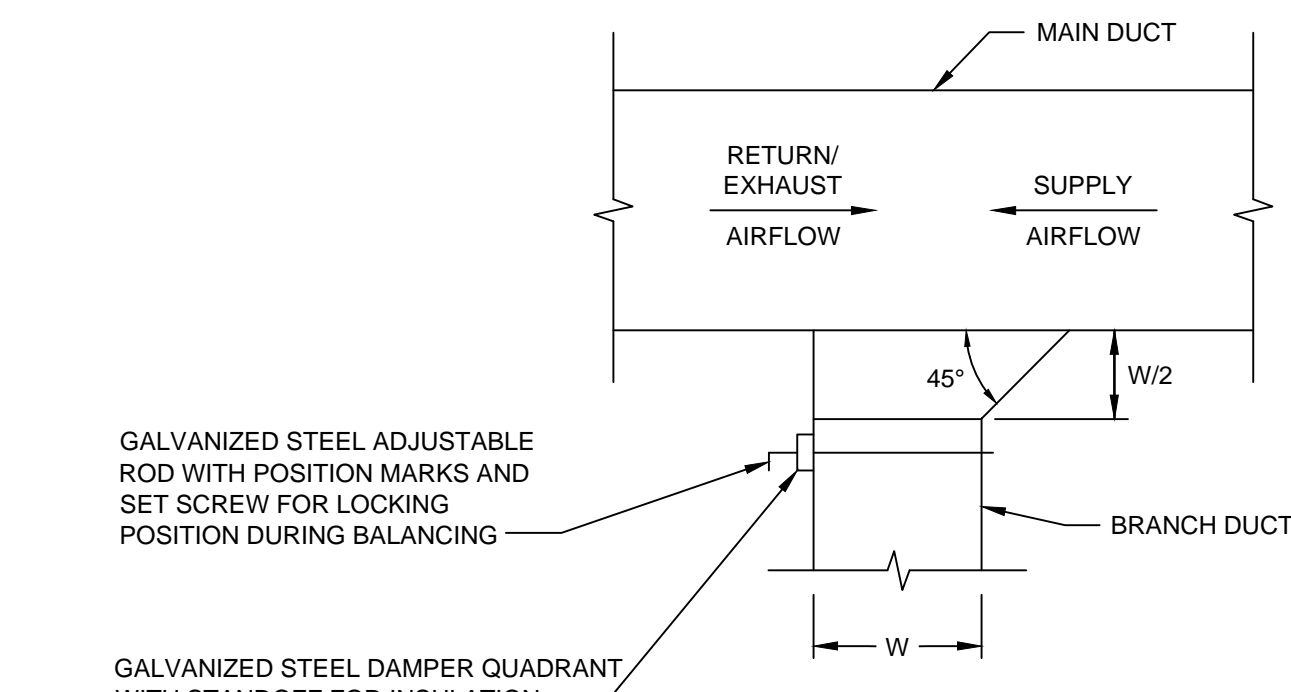
- NOTE:
1. PROVIDE SUPPORTS FOR DUCT WORK IN ACCORDANCE WITH NCMC 603.10.
 2. DUCT WORK SHALL BE INTERNALLY INSULATED WITHIN 25 FEET OF ANY OPERABLE OPENING TO THE EXTERIOR OR ANY OTHER CONDENSATION WHERE CONDENSATION MAY OCCUR.
 3. DUCT WORK SHALL BE INSTALLED LEVEL AND IN A NEAT AND WORKMAN LIKE FASHION.
 4. SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS, TABLE 5.2, FOR HANGER SIZE AND SPACING.
 5. SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FIG 5-1 & 5-2 (WITH SPECIFIC BUILDING STRUCTURAL ENGINEER APPROVAL WHERE APPLICABLE BASED ON WEIGHT AND SEISMIC CRITERIA) FOR UPPER ATTACHMENT TO BUILDING.
 6. SEE SMACNA HVAC DUCT CONSTRUCTION STANDARDS CHAPTER 5 FOR ADDITIONAL DETAILS AND CONFIGURATIONS.



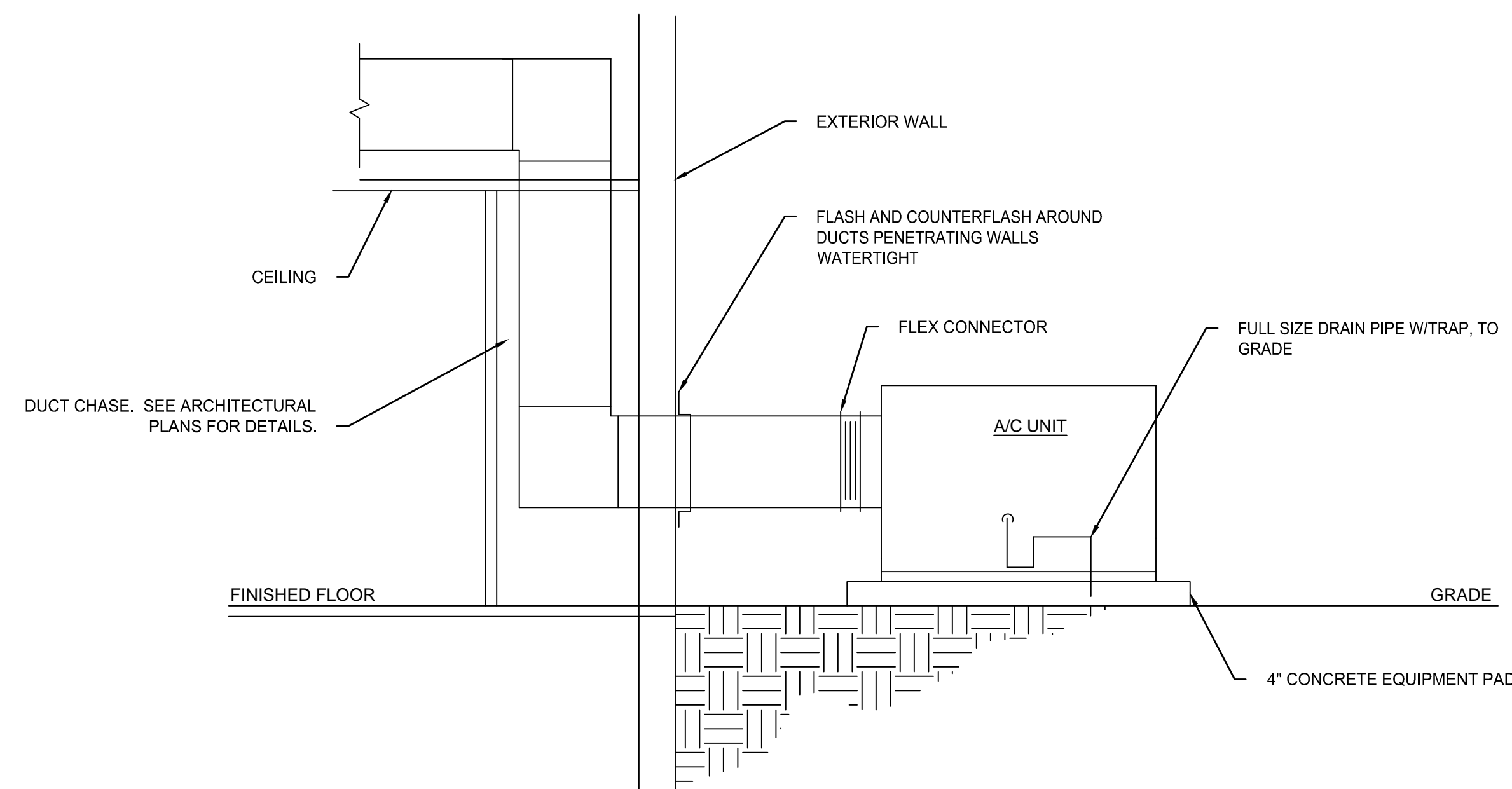
7 SUPPLY REGISTER DETAIL
M07.01 SCALE: NTS



6 CEILING EXHAUST FAN DETAIL
M07.01 SCALE: NTS

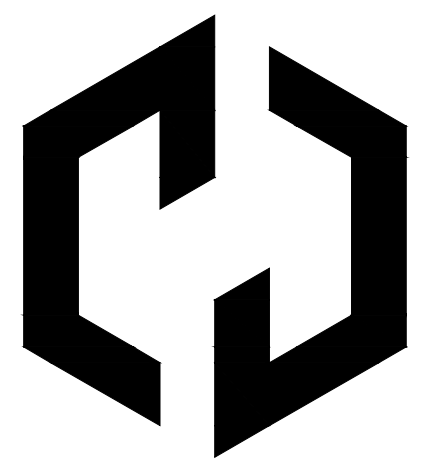


5 TYPICAL DUCTWORK TAKEOFF DETAIL
M07.01 SCALE: NTS



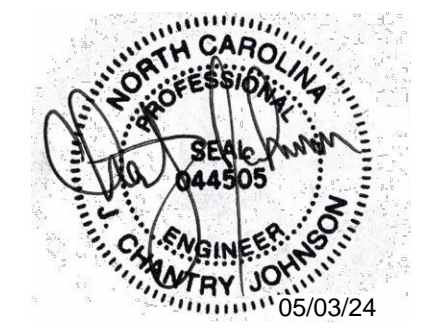
8 GROUND MOUNTED PACKAGED UNIT DETAIL
M07.01 SCALE: NTS

- NOTES:
1. DUCTWORK EXPOSED OUTSIDE SHALL BE INSULATED WITH 2" THICK RIGID EXTERNAL FIBERGLASS INSULATION IN ADDITION TO 1" THICK DUCT LINER. COVER EXTERNAL INSULATION WITH AN ALUMINUM OUTER ENCLOSURE AND SEAL WATER-TIGHT.
 2. AC UNIT SHALL BE INSTALLED LEVEL.
 3. SMOKE DETECTORS SHALL BE IONIZATION TYPE WIRED TO SHUT DOWN THE UNIT UPON ACTIVATION. SMOKE DETECTORS SHALL BE PROVIDED ON SYSTEMS OVER 2000 CFM.



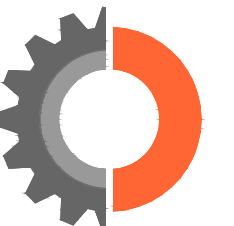
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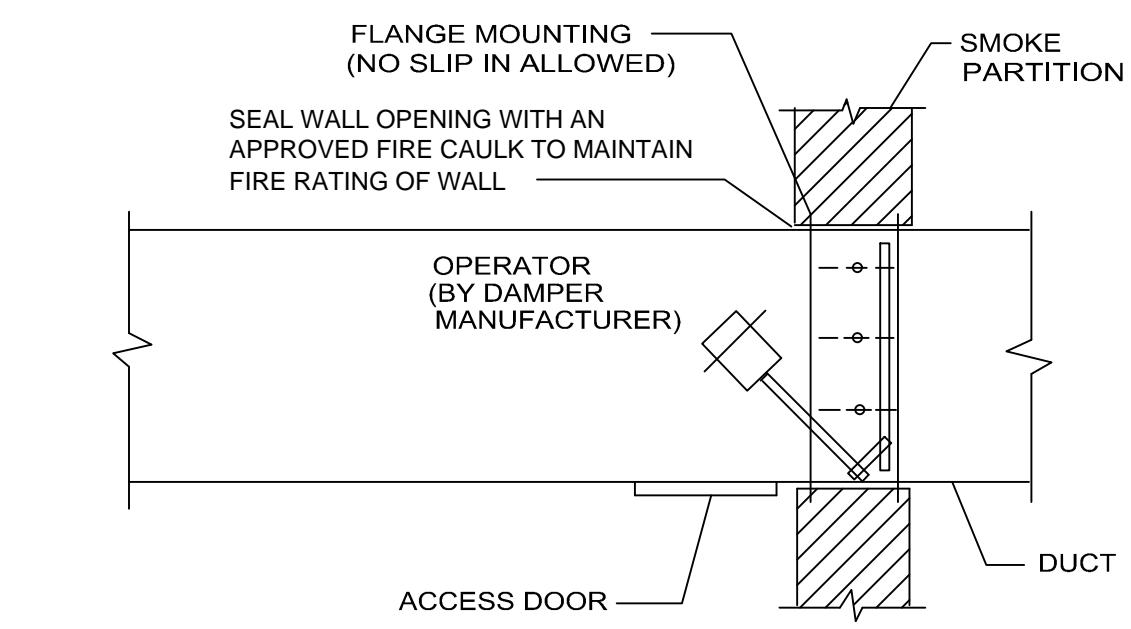
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△ Date Description

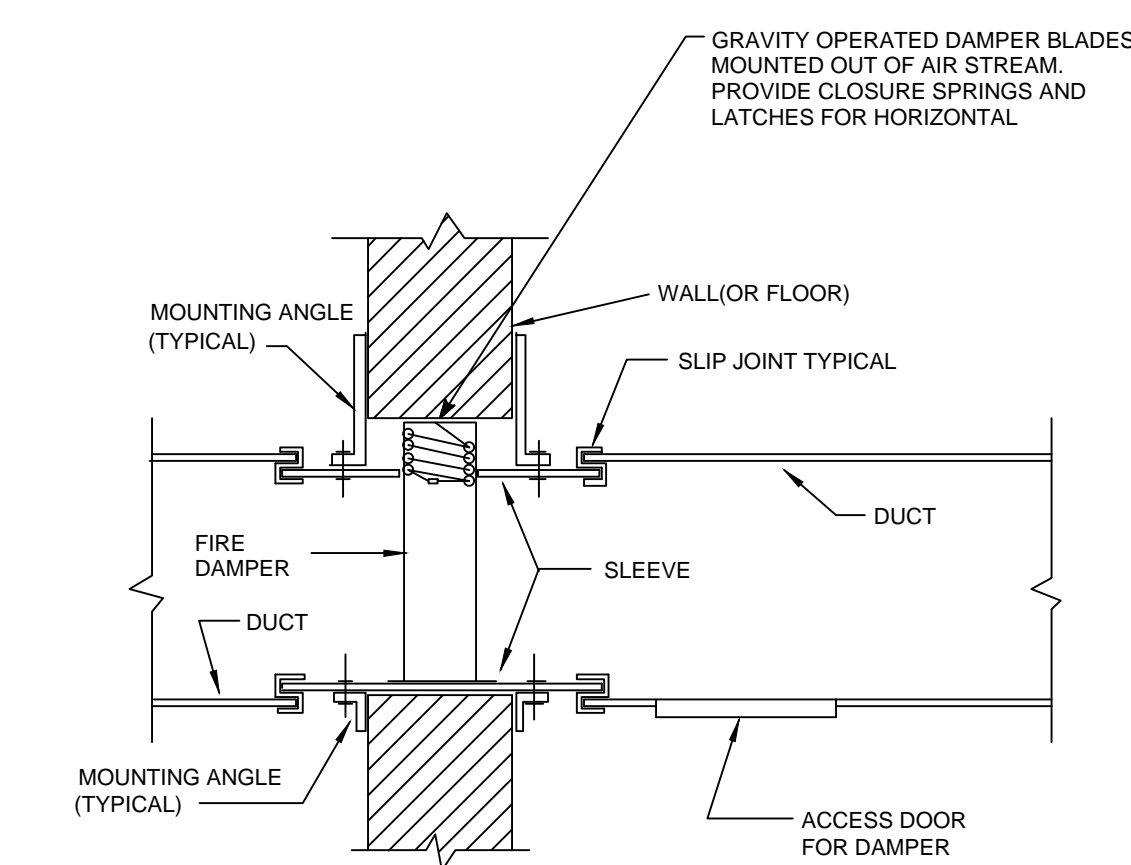
01/30/2024 ISSUE FOR CONSTRUCTION
△ 05/03/2024 ARCHITECTURAL REVISION 1



NOTE: DAMPERS SHALL BE INSTALLED AS PER MFG. INSTRUCTIONS.
COMBINATION FIRE/SMOKE DAMPER SHALL BE RUSKIN FSD60, 1 HOUR FIRE DAMPER, UL555 & UL555S WITH MECHANICAL ATTACHED BLADE AND FLEXIBLE STAINLESS STEEL JAMB SEALS. DAMPER SHALL BE U.L. LISTED. INSTALLED IN ACCORDANCE WITH NFPA. ACCESS DOOR SHALL BE RUSKIN MODEL ADC2 LOCATED ON ACCESSIBLE SIDE OF WALL. IF ACCESSIBLE CEILING IS NOT AVAILABLE, MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOOR IN CEILING (OR WALL) TO MATCH FINISH COLOR.
ALL MODEL NUMBERS ARE RUSKIN. (APPROVED EQUALS ACCEPTABLE)

NOTE: DAMPER ACTUATOR SHALL BE FURNISHED BY THE MANUFACTURER AND FACTORY INSTALLED. COMPLETE ASSEMBLY SHALL BE U.L. RATED.

3 FIRE/SMOKE DAMPER DETAIL
SCALE: NTS

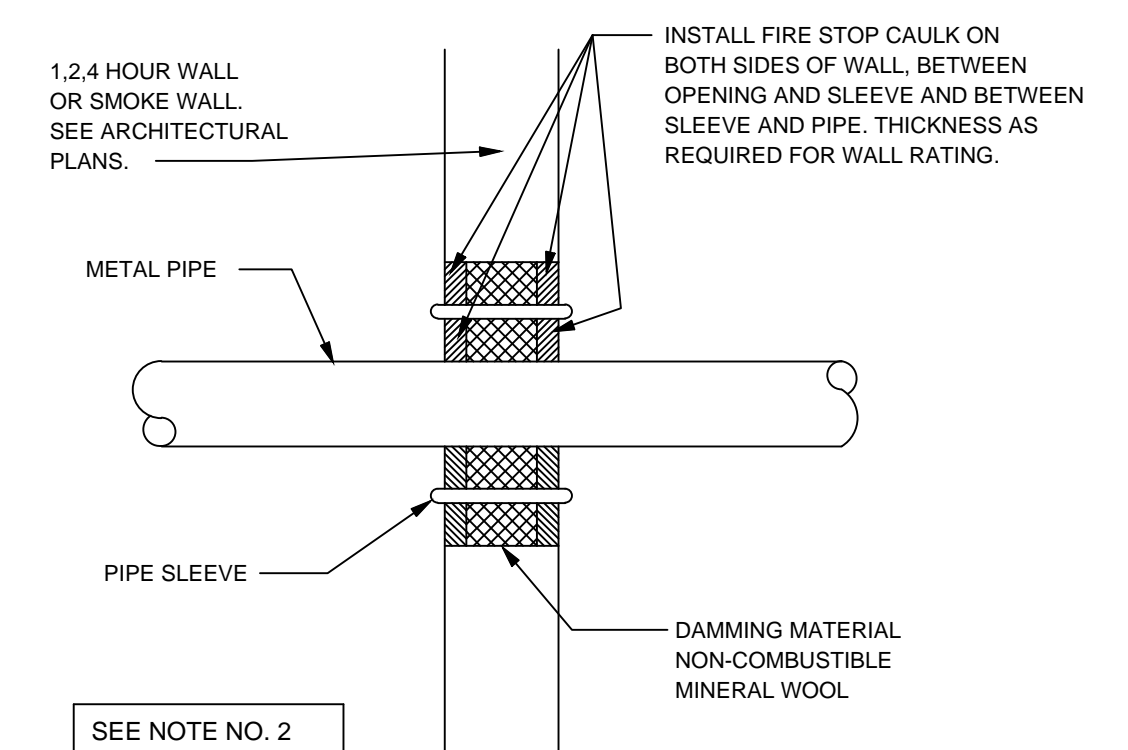


FIRE DAMPER SHALL BE RUSKIN TYPE IB22 STYLE B 1 1/2 HOUR UL. INSTALLED IN ACCORDANCE WITH NFPA. ACCESS DOOR SHALL BE RUSKIN MODEL ADC2 LOCATED ON ACCESSIBLE CEILING SIDE OF WALL. IF ACCESSIBLE CEILING NOT AVAILABLE, MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOOR IN CEILING (OR WALL) TO MATCH FINISH COLOR. DAMPER SHALL BE EQUIPPED FOR HORIZONTAL OR VERTICAL MOUNTING AS REQUIRED. WHERE ROUND DUCTS REQUIRE A DAMPER, AN ENCLOSURE WITH ROUND DUCT CONNECTION WILL BE REQUIRED WITH TYPE B DAMPER INSIDE. ALL MODELS ARE RUSKIN (APPROVED EQUALS ACCEPTABLE).

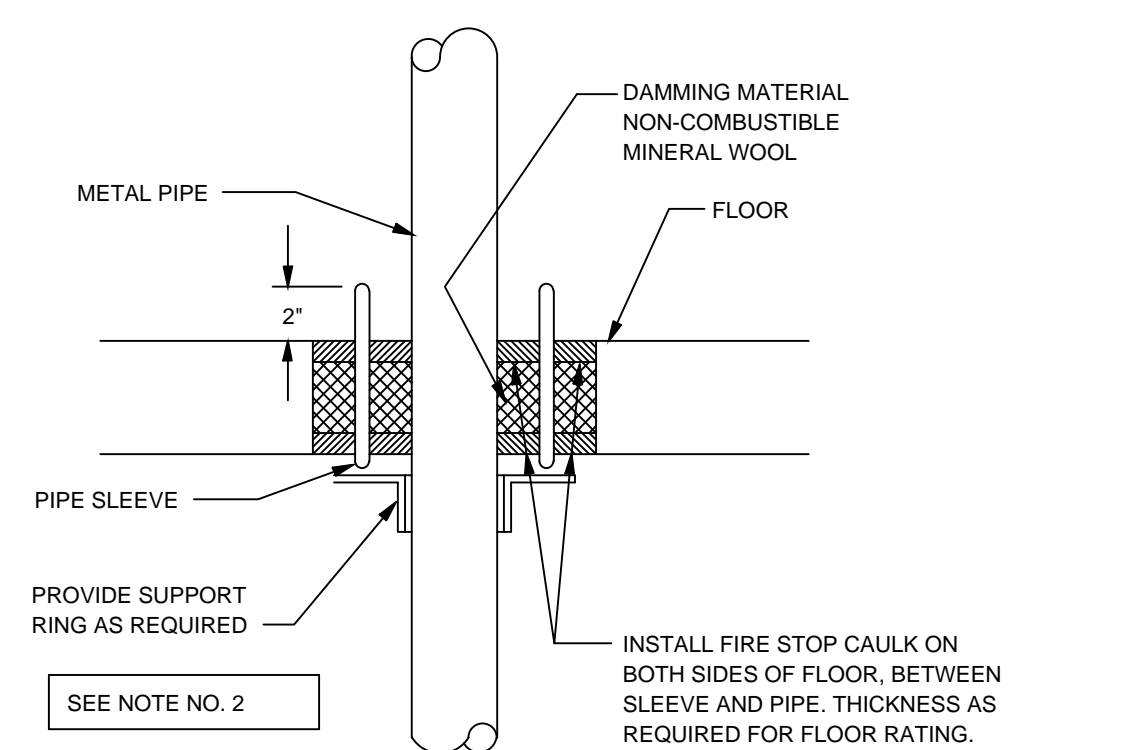
2 FIRE DAMPER DETAIL
SCALE: NTS

PIPE AND DUCTWORK WALL PENETRATIONS NOTES (MECHANICAL)

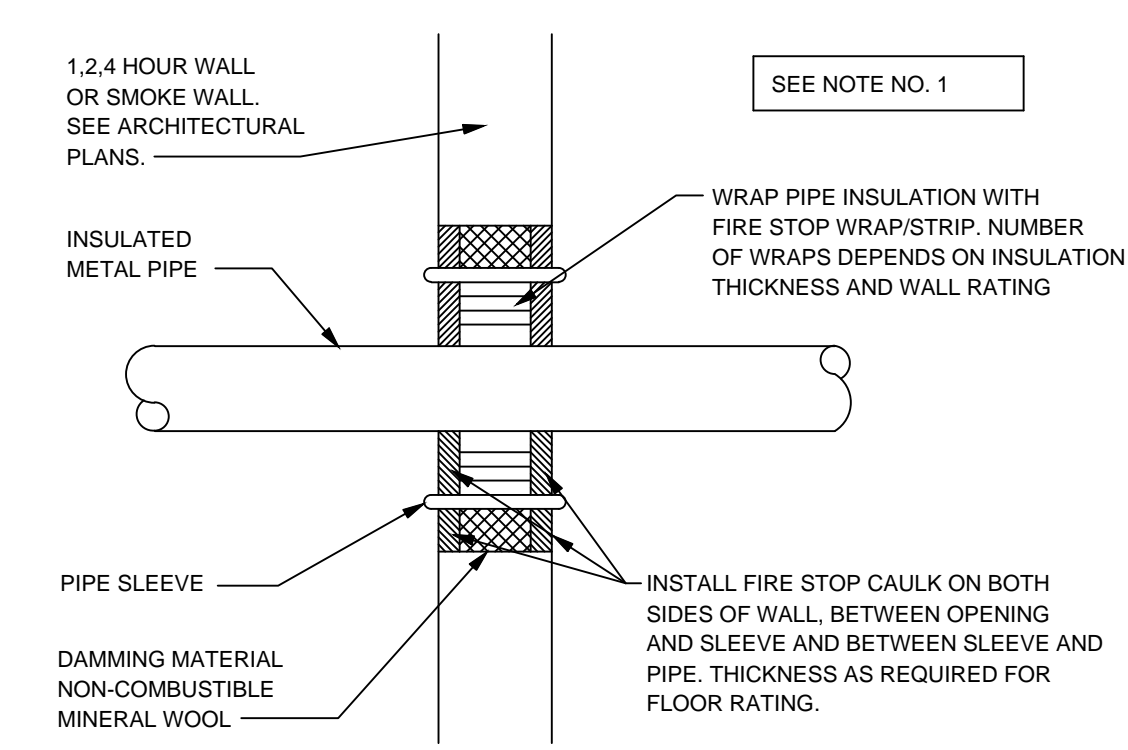
- ALL INSULATED METAL PIPING PENETRATING A ONE HOUR OR MORE RATED SLAB SHALL BE SEALED AROUND INSULATION ON BOTH SIDES OF WALL WITH AN APPROVED FIRE STOP WRAP/STRIP MATERIAL. NUMBER OF WRAPS AROUND INSULATION WITHIN WALL OPENING SHALL BE AS REQUIRED FOR THICKNESS OF INSULATION AND MFG. RECOMMENDATIONS. COVER EXPOSED SURFACE AND SEAMS WITH AN APPROVED FIRE STOP CAULK ON BOTH SIDES OF WALL.
- ALL NON-INSULATED METAL PIPING PENETRATING A ONE HOUR WALL OR MORE RATED WALL OR FLOOR SHALL BE SEALED AROUND PIPE ON BOTH SIDES OF WALL WITH AN APPROVED FIRE STOP CAULK. THICKNESS SHALL BE AS RECOMMENDED BY MANUFACTURER FOR WALL RATING REQUIRED TO MAINTAIN U.L. CLASSIFICATION.
- ALL METAL DUCTWORK (LESS THAN 100 SQUARE INCHES) PENETRATING A ONE HOUR WALL OR SMOKE SHALL BE SEALED AROUND DUCT ON BOTH SIDES OF WALL WITH A SHEET METAL COLLAR (SAME GAGE AS DUCT) SECURED TO WALL AND DUCT IN A SMOKE-TIGHT MANNER. DUCT PENETRATIONS EXCEEDING 100 SQUARE INCHES SHALL HAVE A FIRE DAMPER INSTALLED IN THE WALL AS DETAILED.
- ALL DUCTWORK PENETRATING A TWO HOUR OR MORE RATED WALL OR FLOOR SHALL BE PROVIDED WITH A FIRE DAMPER INSTALLED AS DETAILED.
- NO FLEXIBLE DUCTWORK WILL BE ALLOWED TO PENETRATE ONE HOUR WALLS, TWO HOUR WALLS, SMOKE WALLS, CORRIDOR WALLS OR WALLS CLOSED-OFF TO STRUCTURE. METAL RIGID DUCTWORK SHALL EXTEND A MINIMUM OF 5'-0" FROM WALL BEFORE THE FIRST AIR DISTRIBUTION DEVICE IS INSTALLED OR BEFORE FLEXIBLE DUCT IS STARTED. FLEXIBLE DUCTWORK IN A SINGLE DUCT RUN IS ALLOWED ON ONE SIDE OF A RATED WALL BUT NOT BOTH SIDES.
- ACCEPTABLE MANUFACTURERS OF FIRE STOP MATERIALS ARE AS FOLLOWS:
NELSON FLAMESEAL PUTTY
CROUSE-HINDS CABLE BARRIER SYSTEM
DOW CORNING FIRE STOP SEALANT/FOAM
3M FIRE BARRIER
T88 FLAMEFITE
THERMABARRIER BRAND SAFING
ALL MATERIALS AND METHODS OF INSTALLATION SHALL BE U.L. APPROVED FOR THAT INSTALLATION. SHOP DRAWING SUBMITTALS OF MATERIALS AND METHOD OF INSTALLATION, INCLUDING DRAWINGS, SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
- WHEN A PIPE, WIRE, OR DUCT PENETRATES A NON-RATED SMOKE/TIGHT PARTITION, THE MECHANICAL CONTRACTOR SHALL SEAL AROUND ALL PIPES WIRES AND DUCTS WITH SEALANT MATERIAL TO MAKE IT SMOKE/TIGHT. SEE ARCHITECTURAL PLANS FOR LOCATION OF THESE PARTITIONS.
- SEE ARCHITECTURAL PLANS FOR WALL TYPES.
- ALL RATED WALL PENETRATIONS SHALL BE IN ACCORDANCE WITH UNDERWRITERS LABORATORIES PENETRATION FIRESTOP SYSTEM REQUIREMENTS. ALL MATERIALS USED IN PENETRATION FIRESTOP SYSTEMS SHALL BE APPROVED BY UNDERWRITERS LABORATORIES AND SHALL BE U.L. LABELED.
- PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOORS OF NON-COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH NON-COMBUSTIBLE MATERIALS. PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.



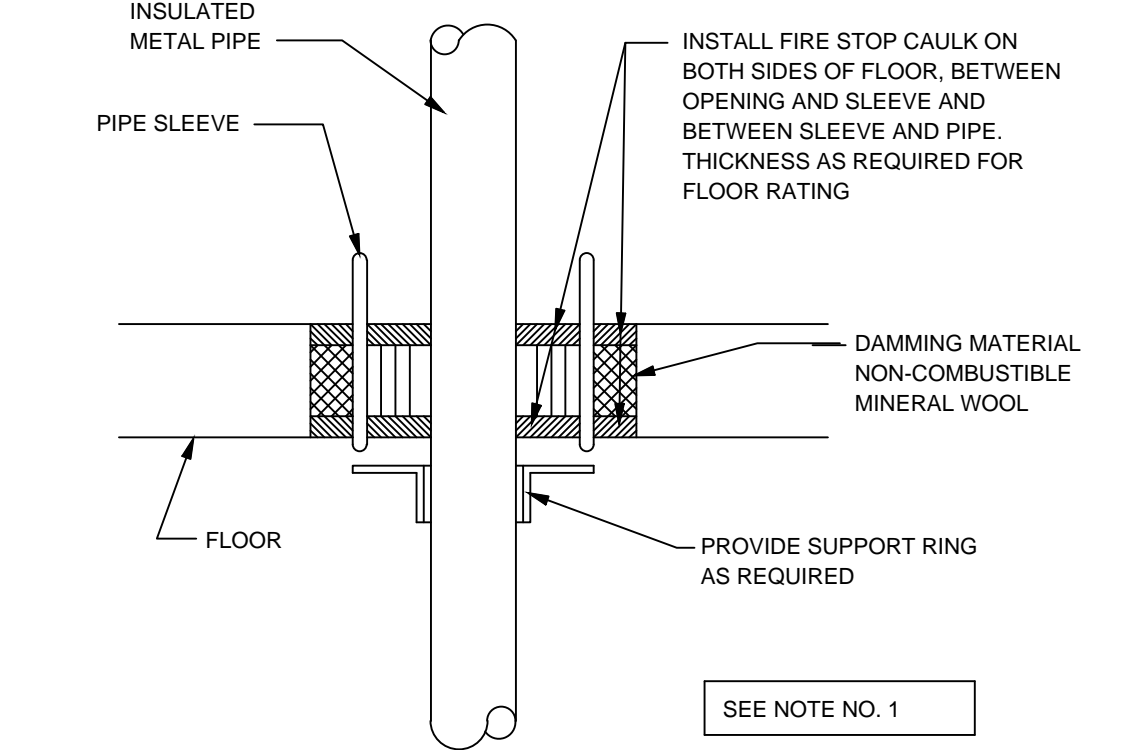
METAL PIPE PENETRATION-WALL
(U.L. SYSTEM NO. WL5024)



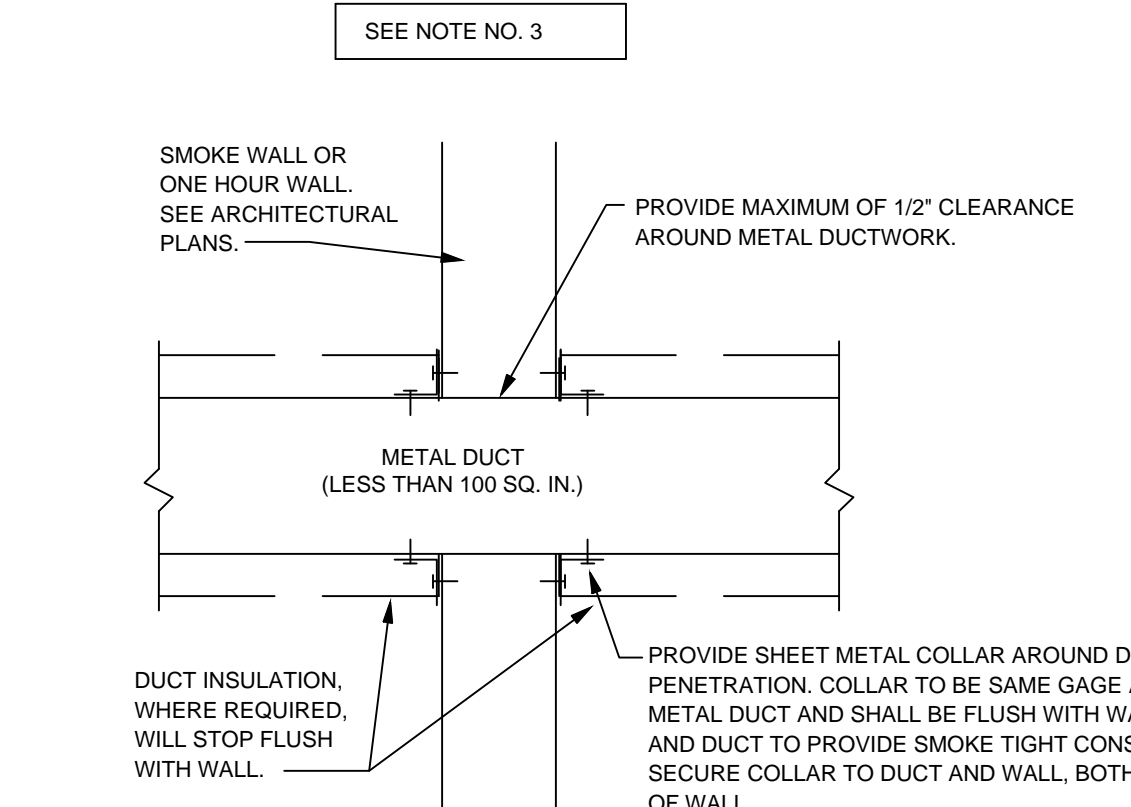
METAL PIPE PENETRATION-FLOOR
(U.L. SYSTEM NO. CAJ1043) - 1, 2 HR.
(U.L. SYSTEM NO. CAJ1044) - 3, 4 HR.



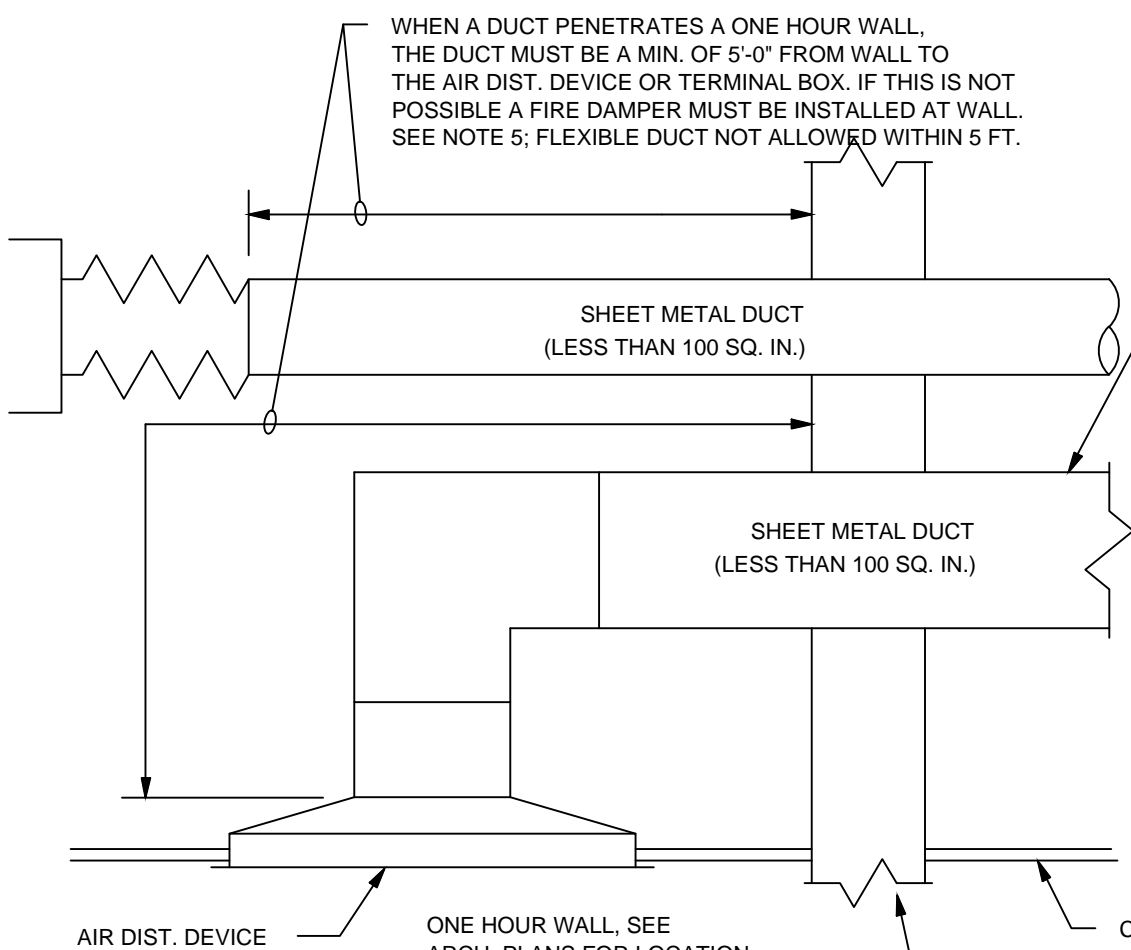
INSULATED METAL PIPE PENETRATION-WALL
(U.L. SYSTEM NO. WL5024)



INSULATED METAL PIPE PENETRATION-FLOOR
(U.L. SYSTEM NO. CAJ1043) - 1, 2 HR.
(U.L. SYSTEM NO. CAJ1044) - 3, 4 HR.



SMOKE OR ONE HOUR WALL-DUCT PENETRATION
NOTE: DUCTS EXCEEDING 100 SQ. IN. SHALL HAVE FIRE DAMPER INSTALLED IN RATED WALL (SEE FIRE DAMPER DETAIL)



DUCT PENETRATION AT ONE HOUR WALL
NOTE: DUCTS EXCEEDING 100 SQ. IN. SHALL HAVE FIRE DAMPER INSTALLED IN RATED WALL (SEE FIRE DAMPER DETAIL)

1 UL PENETRATION DETAILS
SCALE: NTS

PLUMBING GENERAL NOTES

<p>GENERAL REQUIREMENTS:</p> <ol style="list-style-type: none"> THE P.C. SHALL FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS, AND FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE AND ALL OTHER APPLICABLE CODES. THE P.C. SHALL COORDINATE WITH THE G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AND ANY BONDING OR INSURANCE REQUIREMENTS. ALL PLUMBING FIXTURES AND PLUMBING SYSTEM EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, VALVES, STOPS, TAILPIECES, TRAPS, FAUCETS, STRAINERS, ETC. REGARDLESS OF PRESENCE ON PLANS. SEE FIXTURE SCHEDULE. ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD WARRANTY, IF LONGER. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT. DO NOT SCALE DRAWINGS FOR MEASUREMENT. INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL NUMBER. IF A CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL NUMBER, THE EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENCE. IN THE CASE OF A CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENCE. THE P.C. IS RESPONSIBLE FOR CLARIFYING ANY CONFUSION IN REGARDS TO SUBMITTING A BID. THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK. ALL QUESTIONS SHALL BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND SHALL BE ADDRESSED BY THE APPROPRIATE DESIGNER OR RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER. THE P.C. SHALL REVIEW THE COMPLETE DRAWING SET. THE P.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED, UNLESS OTHERWISE NOTED FINAL PLUMBING CONNECTION TO ALL EQUIPMENT, FIXTURES, ETC. IS THE RESPONSIBILITY OF THE P.C. <p>DIVISION OF WORK:</p> <ol style="list-style-type: none"> ALL ROOF PENETRATIONS, FLASHING, ETC. SHALL BE PERFORMED BY ROOFING CONTRACTOR. ALL LOW VOLTAGE WIRING RELATED TO PLUMBING EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE P.C. ALL HIGH VOLTAGE CONNECTIONS TO PLUMBING EQUIPMENT, INCLUDING DISCONNECTS SHALL BE PROVIDED AND INSTALLED BY THE E.C. THE G.C. SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS RELATED TO PLUMBING SYSTEM, WITH THE EXCEPTION OF CLEANOUT COVERS BY THE P.C. THE P.C. SHALL BE RESPONSIBLE FOR COMMUNICATING SIZE AND LOCATION OF ALL REQUIRED ACCESS DOORS TO THE G.C. THE P.C. SHALL EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILING RELATED TO THE INSTALLATION OF PLUMBING EQUIPMENT & SYSTEMS. THE G.C. SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY WATER HEATER PLATFORMS, EITHER FLOORWALL MOUNTED OR SUSPENDED. THE P.C. SHALL COMMUNICATE ALL REQUIREMENTS TO THE G.C. PRIOR TO PERFORMING WORK. <p>MATERIALS:</p> <ol style="list-style-type: none"> ALL MATERIALS SHALL BE NEW UNLESS OTHERWISE SHOWN OR SPECIFIED. PIPING MATERIALS AND FITTINGS SHALL BE AS FOLLOWS: <ul style="list-style-type: none"> A. WASTE, VENT & STORM (BELOW SLAB): PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS. B. WASTE, VENT & STORM (ABOVE SLAB - NON RETURN AIR PLENUM WHEN EXPLICITLY ALLOWED BY OWNER): PVC PIPE, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED FITTINGS. C. WASTE, VENT & STORM (ABOVE SLAB - RETURN AIR PLENUM): HUBLESS CAST IRON JOINTS SHALL BE MADE WITH NEOPRENE COUPLINGS AND STAINLESS STEEL CLAMPS CONFORMING TO CSPI STANDARD 310 AND MARKED WITH NSF OR ASTM C 1540. D. DOMESTIC WATER (BELOW SLAB -3" AND BELOW): TYPE 'K' COPPER WITH WROUGHT COPPER FITTINGS AND BRAZED JOINTS. E. DOMESTIC WATER (BELOW SLAB -1/2" & 3/4" ONLY): TYPE 'K' COPPER TUBING, CONTINUOUS WITH NO JOINTS. F. DOMESTIC WATER (ABOVE SLAB 3" OR LESS): TYPE 'L' COPPER WITH SWEATED SOCKET FITTINGS. THREADED FITTINGS MAY BE USED AT VALVES, FIXTURES & SIMILAR. G. DOMESTIC WATER (ABOVE SLAB 4" AND LARGER): TYPE 'Y' COPPER WITH ROLLED GROVED JOINTS AND FITTINGS. H. NATURAL GAS, SCHEDULE 40 BLACK STEEL COMPLYING WITH ANSI B36.10. ALL GAS COCKS SHALL MEET ANSI B16.33 ALL DOMESTIC WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH THE APPLICABLE ENERGY CONSERVATION CODE. INSULATION SHALL BE PERFORMED MINERAL FIBER PIPE INSULATION WITH AN ALL SERVICE JACKET (ASH) AND SELF-SEALING JAP (SS). INSULATION SHALL HAVE A THERMAL CONDUCTIVITY NOT EXCEEDING 0.27 BTU-IN/HR-F²-F) OR IN ACCORDANCE WITH LOCAL CODES, WHICHEVER IS MORE STRINGENT. PROVIDE HANGERS AND SUPPORTS APPROVED FOR USE BY APPLICABLE PLUMBING CODE. <p>COORDINATION:</p> <ol style="list-style-type: none"> INVERT ELEVATIONS SHALL BE VERIFIED PRIOR TO BEGINNING WORK. THE P.C. SHALL ENSURE PROPER SLOPES OF ALL SANITARY PIPING CAN BE MAINTAINED. THE P.C. SHALL CONTACT THE ARCHITECT AND ENGINEER IMMEDIATELY IF A PROBLEM/ISSUE IS DISCOVERED. THE P.C. SHALL COORDINATE THE LOCATION OF ALL ROOF PENETRATIONS WITH THE ROOFING CONTRACTOR & M.C. THE P.C. AND M.C. SHALL COORDINATE PLUMBING VENT LOCATIONS TO ENSURE THAT NO PLUMBING VENTS ARE LOCATED WITHIN 10' OF ANY OUTSIDE AIR INTAKES. 	<ol style="list-style-type: none"> THE P.C. SHALL COORDINATE WITH THE G.C. AND ARCHITECTURAL PLANS TO ENSURE NECESSARY BACKING/SUPPORTS ARE INSTALLED TO ALLOW INSTALLATION OF PLUMBING FIXTURES. THE PLUMBING CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE PLUMBING WORK (I.E. ACCESS DOORS, SLABWALL/ROOF OPENINGS, ELECTRICAL CONNECTIONS, ETC.) PIPING SHALL BE COORDINATED WITH ALL STRUCTURAL FOOTINGS AND FOUNDATIONS. PIPE SHOULD BE OFFSET TO AVOID CONTACT WITH FOOTINGS AND FOUNDATION WALLS. IF PIPING MUST RUN UNDERNEATH A FOOTING OR THROUGH A FOUNDATION WALL, THE PIPE MUST BE INSTALLED WITH A RELIEVING ARCH OR IN A PIPE SLEEVE. THE P.C. SHALL REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES. <p>EXECUTION:</p> <ol style="list-style-type: none"> THE P.C. SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING PLUMBING EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. THE P.C. SHALL CONTACT THE ARCHITECT AND ENGINEER IF A CONFLICT EXISTS BETWEEN THESE PLANS AND MANUFACTURER INSTRUCTIONS. THE P.C. SHALL BE RESPONSIBLE FOR EXECUTING ALL CODE REQUIRED TESTS AND INSPECTIONS INCLUDING, BUT NOT LIMITED TO, LEAK & PRESSURE TESTING OF SANITARY, VENT, AND DOMESTIC WATER PIPING AND SANITIZING OF WATER PIPING. ENSURE PIPING LOCATED ON EXTERIOR WALLS (OR OTHER WALLS EXPOSED TO FREEZING CONDITIONS) IS INSTALLED ON WARM-SIDE OF WALL INSULATION. ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE. SUPPORT ALL PIPING IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODE. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK. PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILING SHALL BE SEALED IN AN AIR TIGHT MANNER AND IN ACCORDANCE WITH THE APPLICABLE ENERGY CONSERVATION CODE. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS AS PLANS INDICATED AND AT THE BASE OF ALL WASTE STACKS, AT EVERY FOUR (4) DEGREE TURNS, AT EVERY 100 FEET. CLEANOUTS SHALL BE PLACED IN READILY ACCESSIBLE LOCATIONS. DOMESTIC WATER BRANCH LINES SERVING MORE THAN ONE (1) FIXTURE SHALL INCLUDE A SHUT-OFF VALVE. LABEL VALVE AND LOCATE AS CLOSE TO RISERMAN AS POSSIBLE. VALVES NOT DIRECTLY AT EQUIPMENT SHALL BE LABELED INDICATING THE FIXTURE OR AREA SERVED. THE WATER HEATER SHALL BE FILLED WITH WATER AND PURGED AS SOON AS INSTALLED OR IN NO EVENT LATER THAN ELECTRICAL HOOKUP. COPPER PIPING SHALL BE PROTECTED AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, SATISFACTORY AND PERMANENT ELECTROLYTIC ISOLATION MATERIAL SHALL PROTECT THE COPPER AGAINST CONTACT WITH OTHER METALS. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, SLEEVES SHALL BE COPPER OR RED BRASS. WHERE COPPER MUST BE CONCEALED IN A MASONRY PARTITION OR AGAINST MASONRY, CONTACT SHALL BE PREVENTED BY COATING THE COPPER HEAVILY WITH ASPHALTIC ENAMEL AND PROVIDING 1/8" ASPHALT SATURATED FELT BETWEEN THE PIPE AND MASONRY. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS. PIPE INSULATION SHALL BE MITERED AT ELBOWS AND TEES TO ENSURE COMPLETE COVERAGE OF PIPING. PROVIDE QUARTER TURN SHUT-OFF VALVES ON THE FIXTURE SUPPLY TO EACH PLUMBING FIXTURE, APPLIANCE, OR MECHANICAL EQUIPMENT. VACUUM BREAKERS SHALL BE PROVIDED FOR ALL FIXTURES TO WHICH HOSES MAY BE ATTACHED. VACUUM BREAKERS SHALL BE PERMANENTLY ATTACHED. THE P.C. SHALL PROVIDE WATER HAMMER PROTECTION ON ALL WATER DISTRIBUTION PIPING SERVING EQUIPMENT WITH QUICK-CLOSING VALVES (ICE MAKERS, FLUSH VALVES, WATER COOLERS, ETC.) SEE WATER HAMMER ARRESTOR SCHEDULE. ACCESS DOORS SHALL BE PROVIDED FOR ALL VALVES AND DEVICES REQUIRING ACCESS WHEN LOCATED IN WALLS OR ABOVE UNACCESSIBLE CEILING CONSTRUCTION. ACCESS DOORS SHALL BE FIRE RATED WHERE INSTALLED IN FIRE RATED ASSEMBLIES. THE P.C. SHALL BE RESPONSIBLE FOR PROTECTING ALL PLUMBING EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPARKLE, ETC.). UPON COMPLETION OF WORK THE PLUMBING CONTRACTOR SHALL CLEAN, WASH, ETC. ALL ITEMS AND EQUIPMENT WITHIN THE SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN. <p>SPECIAL NOTICE TO CONTRACTORS</p> <ol style="list-style-type: none"> ALL CONTRACTORS (GENERAL CONTRACTOR AND SUB-CONTRACTORS) BIDDING THIS PROJECT ARE REQUIRED TO VISIT THE JOB SITE AND VERIFY THE EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. CONTRACTORS ARE TO CAREFULLY REVIEW ALL CONSTRUCTION DOCUMENTS AND NOTE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED AT THE JOB SITE PRIOR TO SUBMISSION OF ANY BID. THE BUILDING OWNER REPRESENTATIVE MAY BE CONTACTED FOR ACCESS TO THE JOB SITE. PRIOR TO CONSTRUCTION CONTRACTORS ARE RESPONSIBLE FOR VERIFYING THE LOCATION AND CONDITION OF THE FOLLOWING: <ul style="list-style-type: none"> A. ALL POINTS OF CONNECTION TO BUILDING UTILITIES AND/OR SYSTEMS INCLUDING, BUT NOT LIMITED TO, GAS, WATER, SEWER, VENT, ELECTRICAL, MECHANICAL SYSTEMS, DUCTWORK, EXHAUST/OUTSIDE AIR, SECURITY, FIRE/LIFE SAFETY, DATA, AND PHONE. B. ALL REQUIRED CONNECTIONS TO THE BUILDING STRUCTURE C. ALL REQUIRED BUILDING PENETRATIONS. IT IS RECOMMENDED THAT THE CONTRACTOR X-RAY ALL PENETRATIONS THRU CONCRETE AND MASONRY. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND THE CONDITIONS OBSERVED SHALL BE BROUGHT TO THE ATTENTION, IN WRITING, TO THE ARCHITECT AND/OR ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. SEE ARCHITECTURAL PLANS FOR CONTACT INFORMATION.
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DRAWING IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO INDICATE FINAL INSTALLED LOCATIONS OF EQUIPMENT OR PIPING. DRAWINGS DEMONSTRATES DESIGN INTENT ONLY. CONTRACTOR(S) ARE RESPONSIBLE FOR FINAL COORDINATION AND THE PRODUCTION OF ACCURATE, DIMENSIONED SHOP DRAWINGS AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION. THERE SHALL BE NO ALLOWANCES GIVEN FOR THE LACK OF CONTRACTOR COORDINATION. MAINTAIN ALL CODE AND MANUFACTURER REQUIRED CLEARANCES TO ALL EQUIPMENT AND DEVICES. CONTRACTOR(S) ARE RESPONSIBLE FOR ANY AND ALL CONSTRUCTION, DESIGN, ETC. EXPENSES ASSOCIATED WITH DEVIATIONS FROM THE PERMITTED PLANS.

WATER HAMMER ARRESTOR SCHEDULE

FIXTURE UNITS	UNIT SIZE (CONN. SIZE)	MFG & MODEL (OR EQUAL)
IND. FIXTURE	SEE FIXTURE SCHEDULE	SILOUX CHIEF 'MINI-RESTER'
1-11	A (1/2")	SILOUX CHIEF 'HYDRA-RESTER'
12 - 32	B (3/4")	SILOUX CHIEF 'HYDRA-RESTER'
33-60	C (1")	SILOUX CHIEF 'HYDRA-RESTER'

WATER HAMMER ARRESTOR NOTES:
 1. LOCATE SHOCK ARRESTORS IN ACCESSIBLE LOCATION OR PROVIDE SILOUX CHIEF BRAND ARRESTORS ONLY.
 2. SEE PLAN, RISERS, SCHEDULES FOR ARRESTER LOCATIONS. IF LOCATION NOT INDICATED INSTALL IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.

VALVE SCHEDULE

TAG	DESCRIPTION	MFG & MODEL (OR EQUAL)
BV-1	FULL-PORT BALL VALVE	WATTS LFB8081
BV-2	BALANCING VALVE	BELL & GOSSETT CB (CIRCUIT SETTER PLUS, W/ TEST PORTS)
CV-1	BRONZE CHECK VALVE	WATTS CV
TMV-1	THERMO. MIX. VALVE	WATTS LFMMV (0.5 TO 20 GPM, 1.2 TO 1") SET TO 110°F DISCHARGE

VALVE SCHEDULE NOTES:
 1. SEE PLAN FOR SIZE. VALVE SIZE TO EQUAL LINE SIZE.
 2. BALL VALVES TO INCLUDE REMOVABLE HANDLES.
 3. IF AVAILABLE, VALVES MAY BE THREADED OR SWEATED CONNECTIONS. USE EXTREME CARE AND LOW TEMP SOLDER TO PROTECT VALVE SEATS IF SWEATED CONNECTIONS ARE USED.
 4. TMV-1 SHALL COMPLY WITH ASSE 1070.

BACK FLOW PREVENTER ASSEMBLY REQUIREMENTS

TYPE OF EQUIPMENT ON SYSTEM	METHOD OF CROSS CONNECTION CONTROL	MANUFACTURE AND MODEL NUMBER	REMARKS
CARBONATOR SODA SYSTEM	DUAL CHECK VALVE WITH ATMOSPHERIC PORT	WATTS SD3-QT ASSE 1022/1024 CERT	STAINLESS STEEL BODY WITH QUARTER TURN VALVE SS STRAINER.
ICE MACHINE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-009-QT-S	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
TEA MACHINE	DUAL CHECK VALVE WITH ATMOSPHERIC PORT	WATTS SD3-QT ASSE 1022/1024 CERT	STAINLESS STEEL BODY WITH QUARTER TURN VALVE BRONZE STRAINER.
WATER SERVICE	REDUCED PRESSURE ZONE ASSEMBLY	WATTS LF-919-QT	LEAD FREE CAST COPPER WITH QUATER TURN

1. CONTRACTOR SHALL PROVIDE INDIVIDUAL BACKFLOW PREVENTERS FOR EACH PIECE OF EQUIPMENT.
 2. EACH BACKFLOW PREVENTER MUST HAVE TESTING PORTS.
 3. BRONZE BODIED BACKFLOW PREVENTERS ARE PERMISSABLE IF ALLOWED BY LOCAL CODES.

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE	HR	HOUR
ADA	AMERICANS WITH DISABILITIES ACT	HW	DOMESTIC HOT WATER
AFF	ABOVE FINISHED FLOOR	HWR	DOMESTIC HOT WATER RETURN
BFP	BACKFLOW PREVENTER	IN.	INCH(ES)
BTU	BRITISH THERMAL UNIT	KW	KILOWATT
BTU/HR	BRITISH THERMAL UNIT PER HOUR	LV	LAVATORY
CAP.	CAPACITY	MAX.	MAXIMUM
CO	CLEANOUT	MBH	ONE THOUSAND BTU/HR
CV	CHECK VALVE	M.C.	MECHANICAL CONTRACTOR
CW	DOMESTIC COLD WATER	MIN.	MINIMUM
DEMO	DEMOLISH OR DEMOLITION	N/A	NOT APPLICABLE
DIA.	DIAMETER	NTS	NOT TO SCALE
DWV	DRAIN, WASTE, AND VENT	P.C.	PLUMBING CONTRACTOR
E.C.	ELECTRICAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH
ET	EXPANSION TANK	S	SINK
*F	DEGREES FAHRENHEIT	TEMP.	TEMPERATURE
FCO	FLOOR CLEANOUT	TMV	THERMOSTATIC MIXING VALVE
FT	FOOT OR FEET	TYP.	TYPICAL
GAL.	GALLON(S)	V	VOLT
G.C.	GENERAL CONTRACTOR	W	WATT
GPH	GALLONS PER HOUR	WC	WATER CLOSET
GPM	GALLONS PER MINUTE	WH	WATER HEATER
HP	HORSEPOWER	WHA	WATER HAMMER ARRESTOR

INSULATION SCHEDULE

PIPING SYSTEM	FLUID TEMPERATURE RANGE	RUN OUTS UP TO 1"	1-1/4" TO 2"	2-1/2" TO 4"	5" TO 6"	8" AND LARGER
DOMESTIC COLD WATER	40-60	1/2"	1/2"	1/2"	1/2"	1/2"
DOMESTIC HOT WATER	105 OR GREATER	1/2"	1"	1-1/2"	1-1/2"	1-1/2"

PLUMBING DRAWING SYMBOLS

	FULL PORT QUARTER TURN BALL VALVE
	CHECK VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	WATER HAMMER ARRESTOR
	UNION
	PRESSURE GAUGE
	INLINE PUMP
	FLOOR DRAIN
	CONNECT TO EXISTING
	DISCONNECT FROM EXISTING
	KEY NOTE TAG

TABLE 710.1(1) BUILDING DRAINS AND SEWERS

DIAMETER OF PIPE (Inches)	MAXIMUM NUMBER OF DRAINAGE FIXTURE UNITS CONNECTED TO ANY PORTION OF THE BUILDING DRAIN OR THE BUILDING SEWER, INCLUDING BRANCHES OF THE BUILDING DRAIN			
	Slope per foot			
	1/4" inch	1/8" inch	1/2" inch	1/2" inch
1 1/2	---	---	1	1
1 1/2	---	---	3	3
2	---	---	21	26
2 1/2	---	---	24	31
3	---	36	42	50
4	---	180	216	250
5	---	390	480	575
6	---	700	840	1,000
8	1,400	1,600	1,920	2,300
10	2,500	2,900	3,500	4,200
12	3,900	4,600	5,600	6,700
15	7,000	8,300	10,000	12,000

For SI: 1 inch = 25.4 mm, 1 inch per foot = 83.33 mm/ft.
 a. The minimum size of any building drain serving a water closet shall be 3 inches.
 b. No building sewer shall be less than 4 inches in size.
 c. No more than three water closets.
 d. Minimum of 2-inch diameter underground.

SECTION 704 DRAINAGE PIPING INSTALLATION

704.1 Slope of horizontal drainage piping. Horizontal drainage piping shall be installed in units with all alignment at uniform slopes. The slope of a horizontal drainage pipe shall be not less than that indicated in Table 704.1.

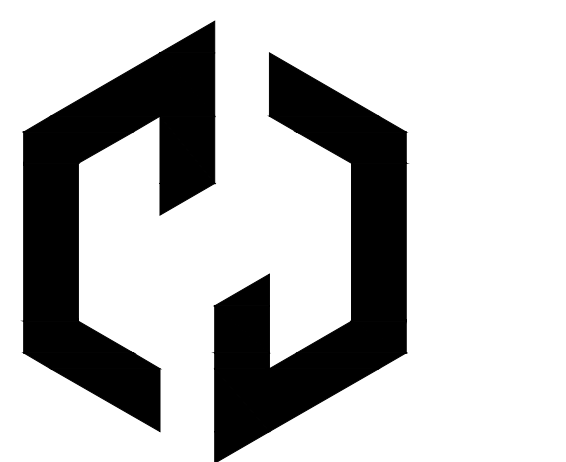
TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE

SIZE (Inches)	MINIMUM SLOPE (Inch per foot)
2 1/2 or less	1/4
3 to 6	1/8
8 or larger	1/16

For SI: 1 inch = 25.4 mm, 1 inch per foot = 83.33 mm/ft.

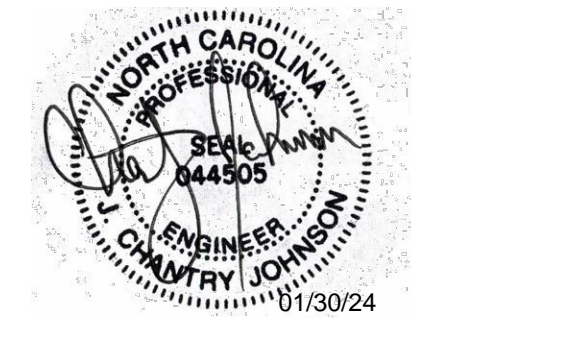
704.2 Change in size. The size of the drainage piping shall not be reduced in size in the direction of the flow. A 4-inch by 3-inch (102 mm by 76 mm) water closet connection shall not be considered as a reduction in size.

704.3 Connections to offsets and bases of stacks. Horizontal branches shall connect to the bases of stacks at a point located not less than 10 times the diameter of the drainage stack downstream from the stack. Horizontal branches shall connect to horizontal stack offsets at a point located not less than 10 times the diameter of the drainage stack downstream from the upper stack.



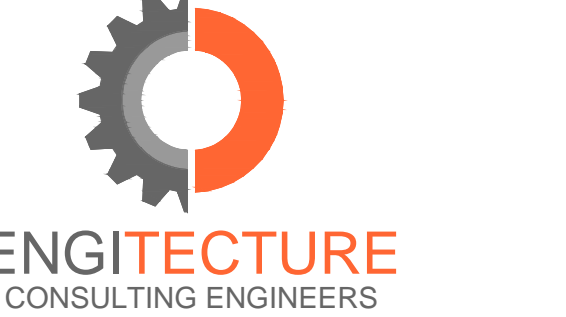
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 PROJ# 23253

△ Date Description
 01/30/2024 ISSUE FOR CONSTRUCTION

Project Name



community church
 making church come alive
 658 GRAHAM ROAD
 SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

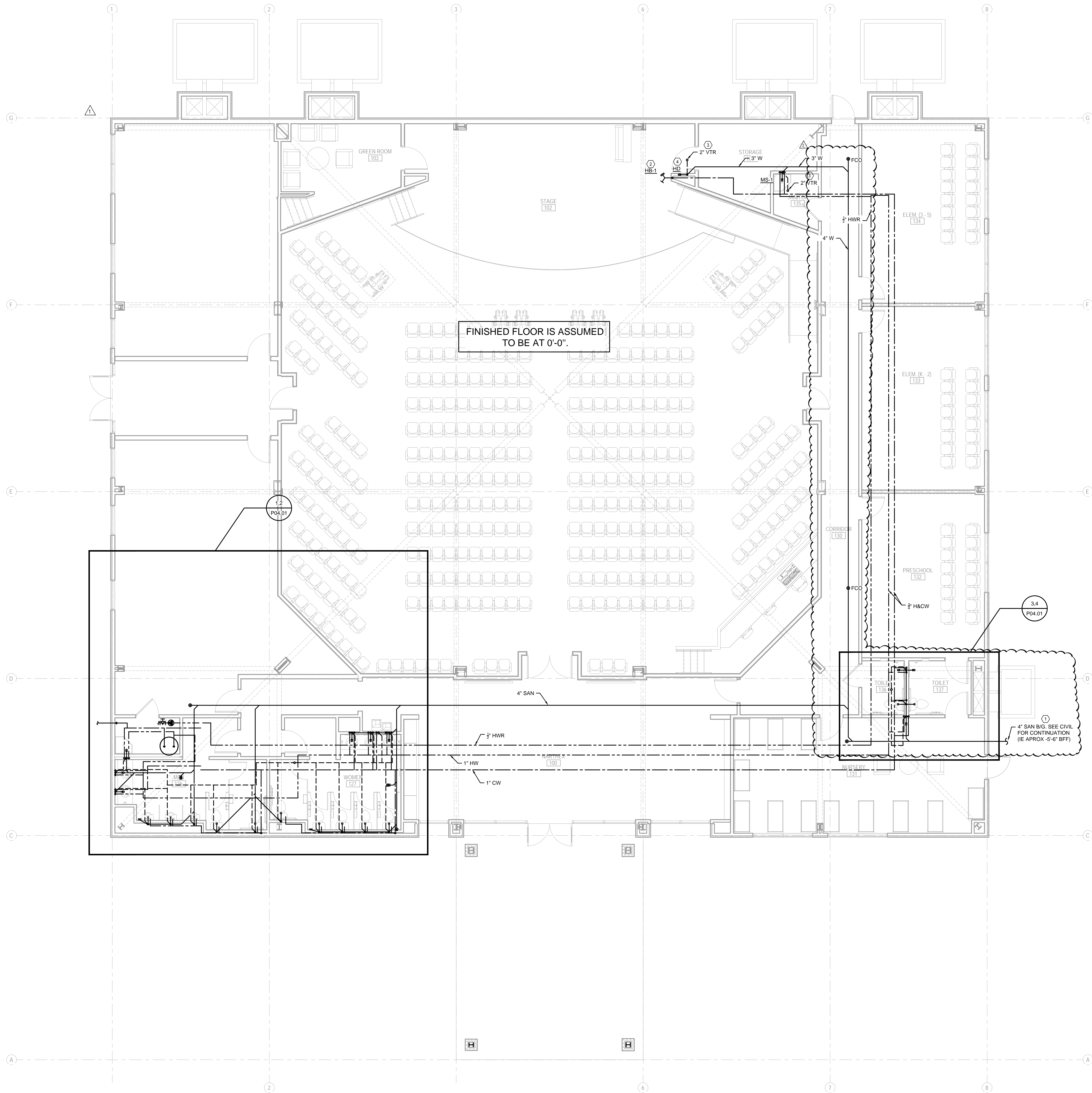
Description

NOTES & ABBREVIATIONS - PLUMBING

Scale

NA

P00.01

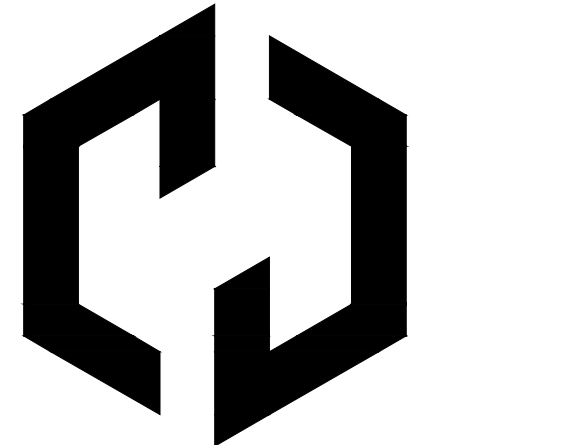


- LEGEND NOTES
(APPLY TO THIS SHEET ONLY)
- ① COORDINATE FINAL INVERT WITH CIVIL AND BUILDING FOOTINGS.
 - ② FINAL STYLE, FINISH, LOCATION OF HOSE BIBB SHALL BE APPROVED BY OWNER AND ARCHITECT.
 - ③ ROUTE NEW VENT UP TO ROOF. TERMINATION SHALL BE A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
 - ④ PROVIDE HUB DRAIN IN THIS APPROXIMATE LOCATION IN READILY ACCESSIBLE AREA. FINAL LOCATION SHALL BE COORDINATED WITH FINAL BAPTISM AREA. AND SHALL BE APPROVED BY THE OWNER AND ARCHITECT. MAKE ALL CONNECTIONS TO BAPTISM VESSEL WITH INDIRECT CONNECTION IN COMPLIANCE WITH THE NORTH CAROLINA PLUMBING CODE.

FINISHED FLOOR IS ASSUMED TO BE AT 0'-0".

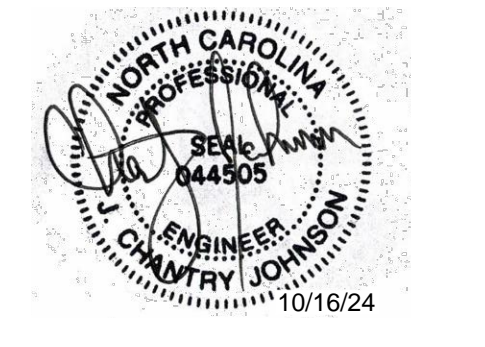
④
4" SAN B/G. SEE CIVIL FOR CONTINUATION (IE APPROX -5'-6" BFF)

1 FIRST FLOOR PLAN - PLUMBING
P01.01 SCALE: 3/16" = 1'-0"



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Date	Description
01/30/2024	ISSUE FOR CONSTRUCTION
08/27/2024	REVISION 2
10/14/2024	RTAP NO 1

Project Name



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658 GRAHAM ROAD
SANFORD NC 27311

Client

3D COMMUNITY CHURCH

Project Number

23024.00

Description

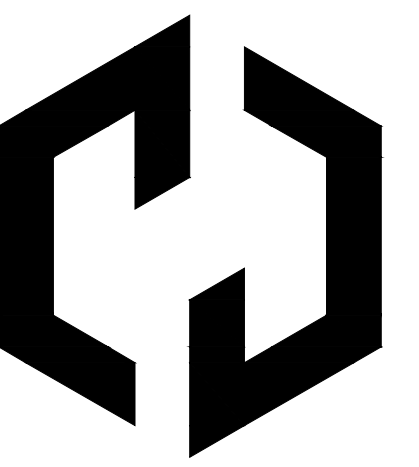
FLOOR PLAN - PLUMBING

Scale

SEE PLANS

P01.01

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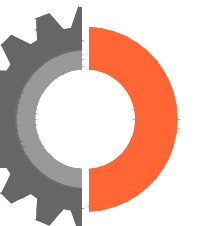
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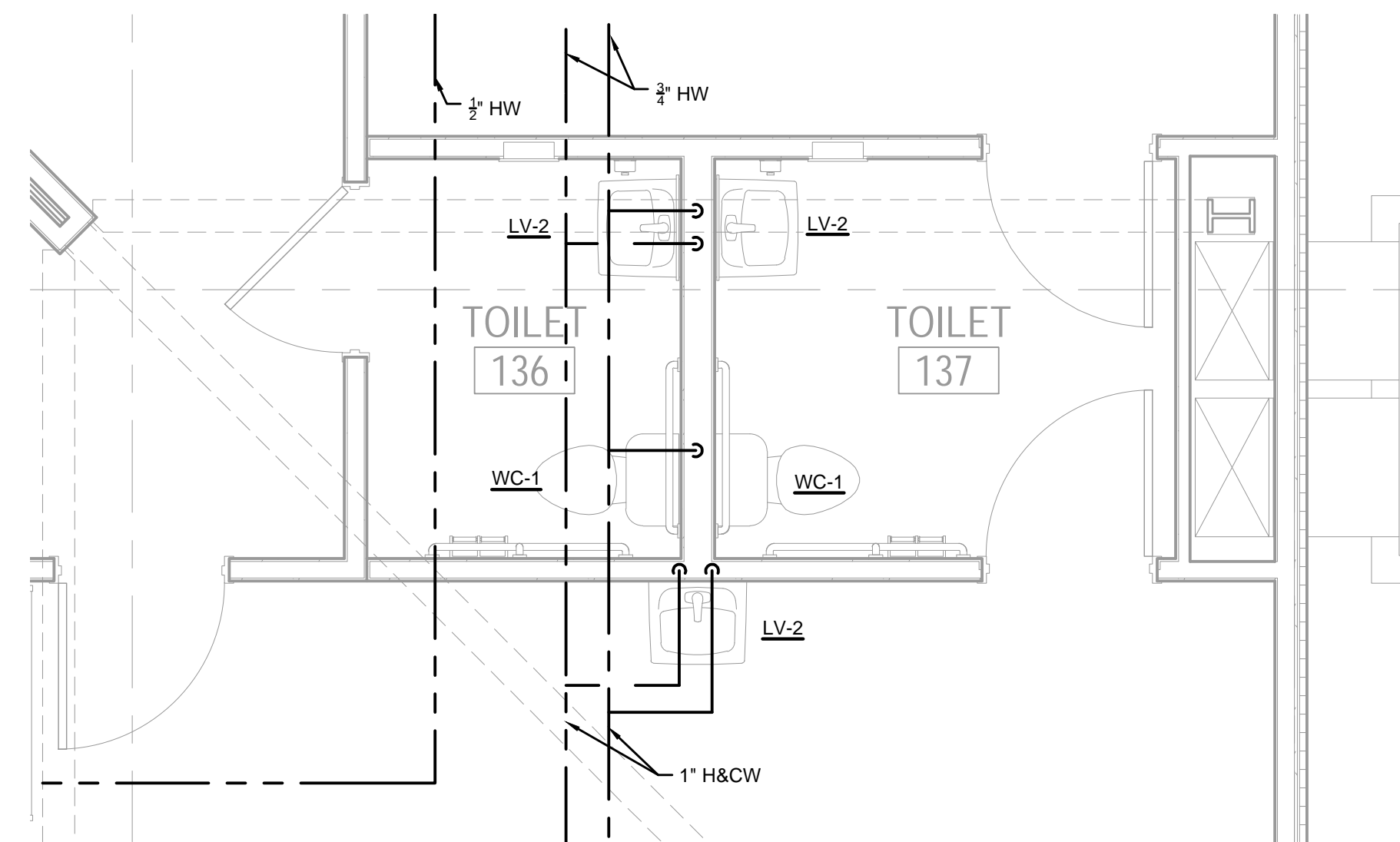
ENLARGED PLANS- PLUMBING

Scale

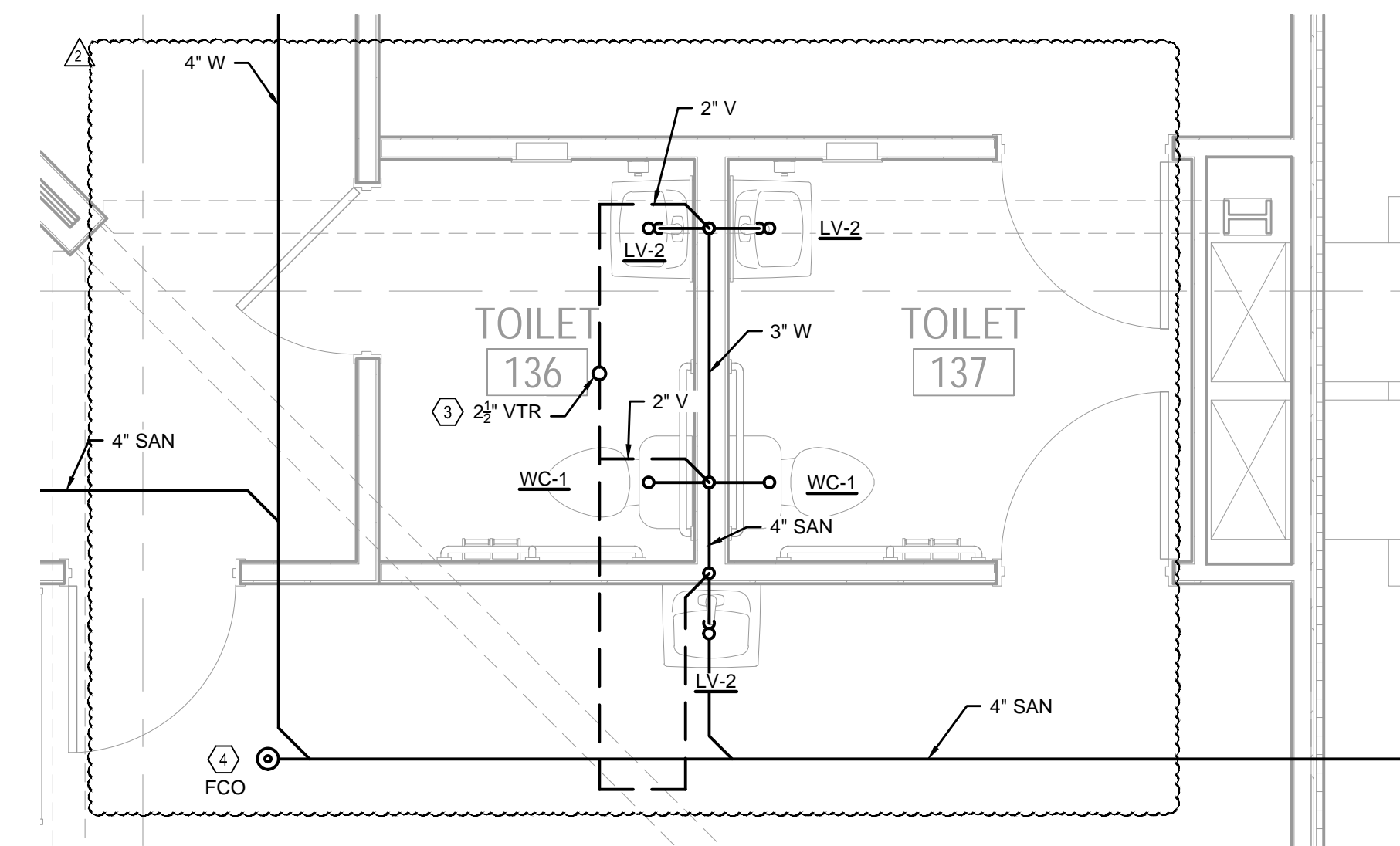
SEE PLANS

P04.01

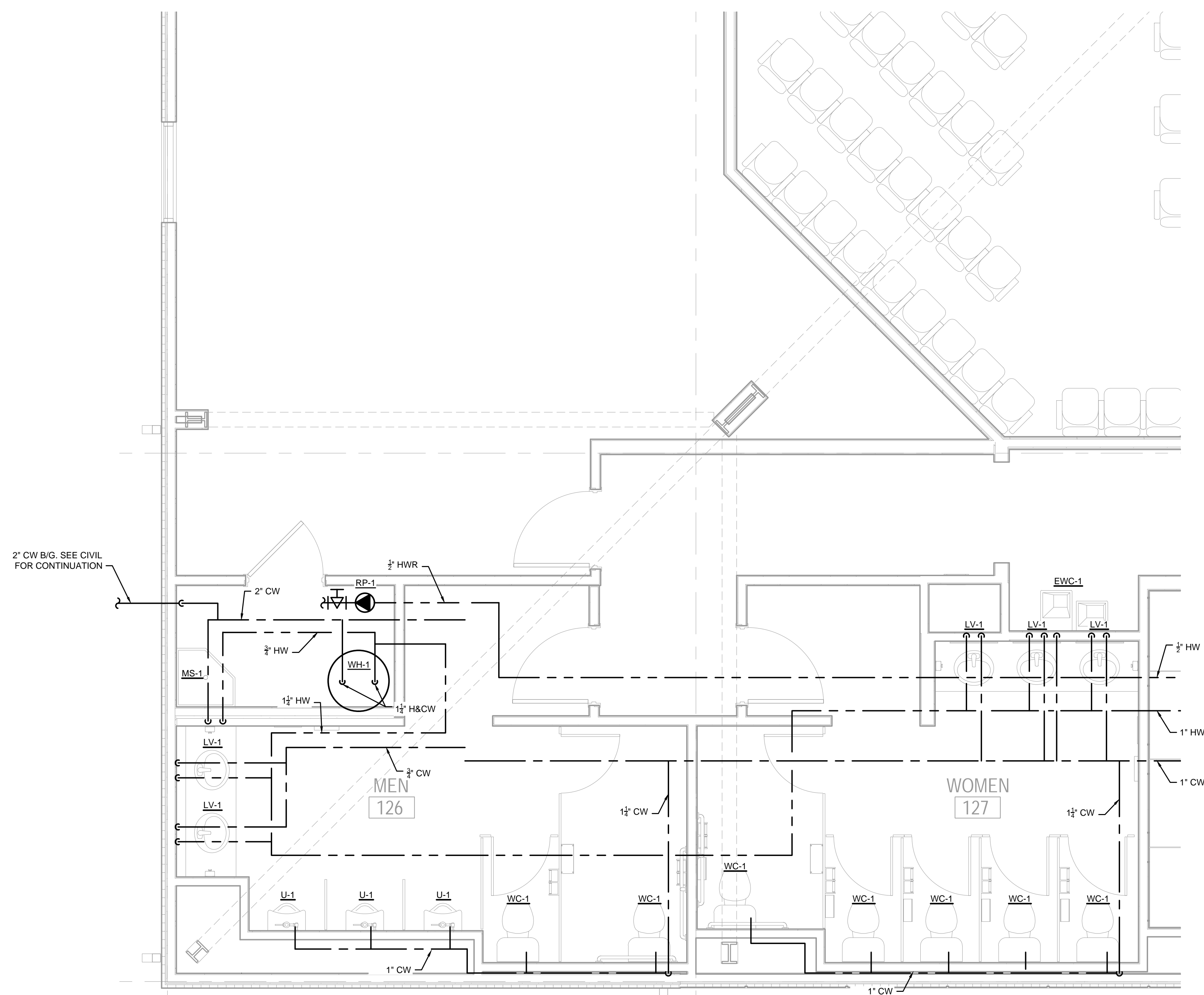
- LEGEND NOTES
(APPLY TO THIS SHEET ONLY)
- ① NOT USED
 - ② NOT USED
 - ③ ROUTE NEW VENT UP TO ROOF. TERMINATION SHALL BE A MINIMUM OF 10 FT FROM ANY OUTSIDE AIR INTAKE.
 - ④ FINAL STYLE, FINISH AND LOCATION OF FLOOR CLEAN OUT SHALL BE APPROVED BY THE ARCHITECT.
 - ⑤ NOT USED
 - ⑥ FINAL STYLE, FINISH AND LOCATION OF FLOOR DRAIN SHALL BE APPROVED BY THE ARCHITECT.



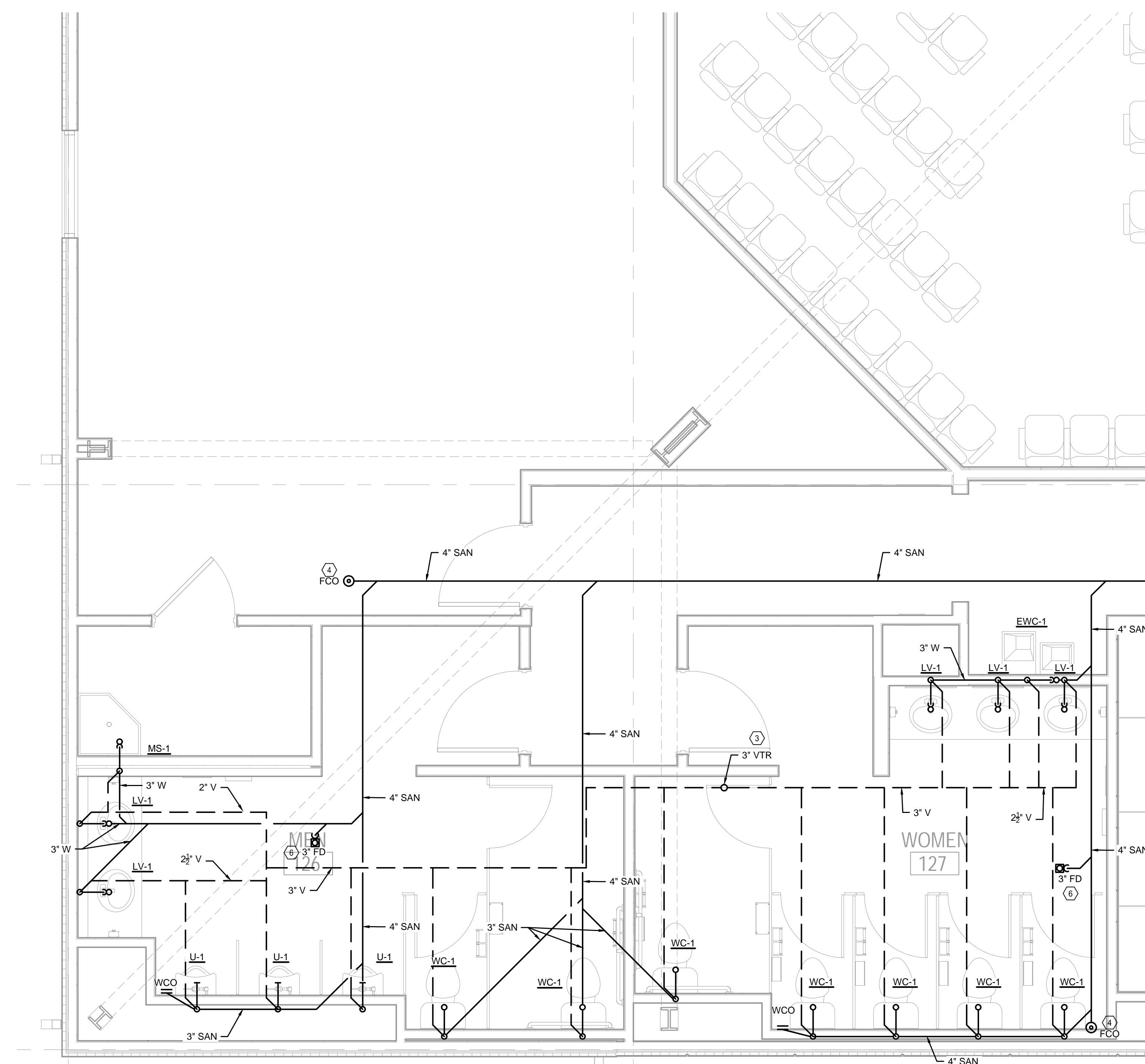
4 ENLARGED PLAN - DOMESTIC WATER
SCALE: 3/8" = 1'-0"



3 ENLARGED PLAN - SANITARY & VENT
SCALE: 3/8" = 1'-0"



2 ENLARGED PLAN - DOMESTIC WATER
SCALE: 3/8" = 1'-0"



1 ENLARGED PLAN - SANITARY & VENT
SCALE: 3/8" = 1'-0"

PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	WASTE PIPE		COLD WATER		HOT WATER		VALVE/FAUCET		REMARKS
		IN	IN	IN	IN	MANUFACTURER	MAKE/MODEL	MANUFACTURER	MAKE/MODEL	
WC-1	WATER CLOSET	3	2	1/2	NA	AMERICAN STANDARD	211AA.104	NA	NA	PROVIDE WITH TOILET SEAT WITH TOP, STOP VALVES, ETC. PROVIDE FLUSH HANDLE ON ACCESSIBLE SIDE OF WATER CLOSET WHERE APPLICABLE. MOUNT IN ACCORDANCE WITH THE ACCESSIBILITY CODE WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS.
U-1	URINAL	2	1-1/2	3/4	NA	AMERICAN STANDARD	6501.010	SLOAD	111-1.6	PROVIDE WITH HANGER PLATE CARRIER. MOUNT IN ACCORDANCE WITH THE ACCESSIBILITY CODE WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS.
LV-1	LAVATORY	2	1-1/2	1/2	1/2	AMERICAN STANDARD	0642	DELTA	523-HDF-DST	SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND INFORMATION. MOUNT IN ACCORDANCE WITH THE ACCESSIBILITY CODE WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS.
LV-2	LAVATORY	2	1-1/2	1/2	1/2	AMERICAN STANDARD	0356	DELTA	523-HDF-DST	STOP VALVES, P-TRAP, SUPPLY COVER, GRID STRAINER, 1.0 GPM AERATOR.
MS-1	MOP SINK	3	2	3/4	3/4	FIAT	MSB2424	T&S BRASS	B-0665-BSTR	
KS-1	SINK	2	1-1/2	1/2	1/2	ELKAY	ELUH	ELKAY	LK406	STOP VALVES, P-TRAP, SUPPLY COVER, GRID STRAINER, 1.0 GPM AERATOR.
EW-1	ELECTRIC WATER COOLER	2	1-1/2	1/2	NA	ELKAY	EZSTL8LC	NA	NA	PROVIDE WATER COOLER COMPLETE WITH ANGLE SUPPLY LOOSE KEY STOP, P-TRAP, AND CARRIER.
FCO	FLOOR CLEAN OUT	4	NA	NA	NA	ZURN	ZB1400	NA	NA	
FD-1	FLOOR DRAIN	3" OR 4"	1-1/2" OR 2"	NA	NA	ZURN	ZB415-B	NA	NA	21000 DEEP SEAL TRAP
FD-2	FLOOR DRAIN	4	2	NA	NA	ZURN	ZB415-B	NA	NA	21000 DEEP SEAL TRAP, 4" FUNNEL WITH DOME STRAINER AND HALF GRATE
FS	FLOOR SINK	4	2	NA	NA	ZURN	FD2375-NH4	NA	NA	
HB-1	HOSE BIBB	NA	NA	1/2	NA	WOODFORD	28	NA	NA	
NFWH	NO FREEZE WALL HYDRANT	NA	NA	3/4	NA	WOODFORD	67	NA	NA	
WCO	WALL CLEAN OUT	4	NA	NA	NA	ZURN	ZURN 2446	NA	NA	

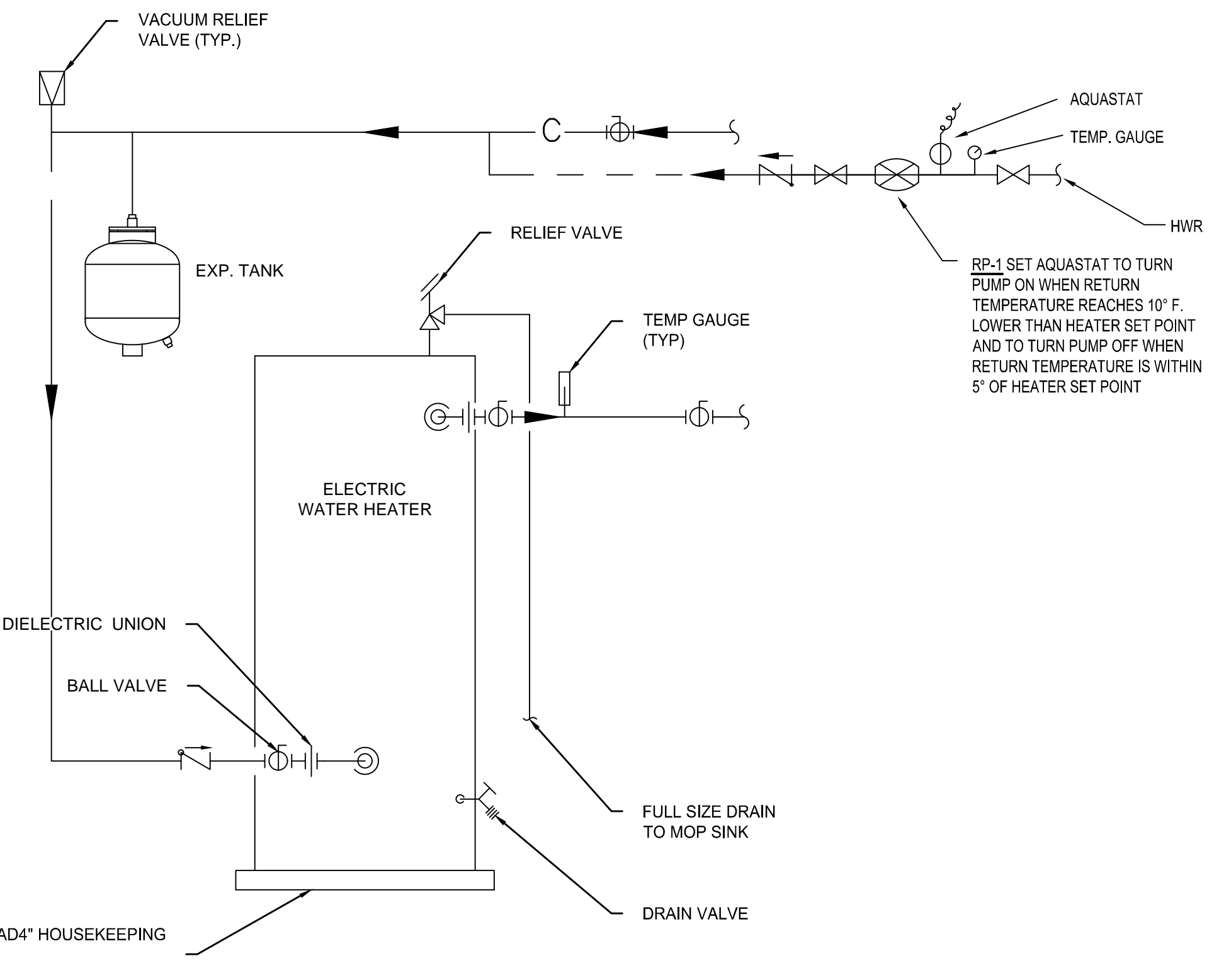
NOTES:
1) ALL FINAL PLUMBING FIXTURE SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT AND OWNER PRIOR TO PURCHASING AND ORDERING.
2) COORDINATE ALL FINAL PLUMBING FIXTURE SELECTIONS WITH MILL WORK SHOP DRAWINGS.

ELECTRIC WATER HEATER SCHEDULE											
MARK	LOCATION	SYSTEM AND/OR SERVICE	TYPE	STORAGE CAPACITY		RECOVERY @ 100°F RISE		ELECTRICAL INPUT		BASIS OF DESIGN (1)	NOTES
				GAL	GAL/HR	TOTAL KW	VOLT	PHASE			
WH-1	FIRST FLOOR JANITORS CLOSET	DOMESTIC HOT WATER	ELECTRIC TANK TYPE	50	37	9	208	3	AO SMITH DRE		

NOTES:
1) PROVIDE BASIS OF DESIGN OR EQUAL.

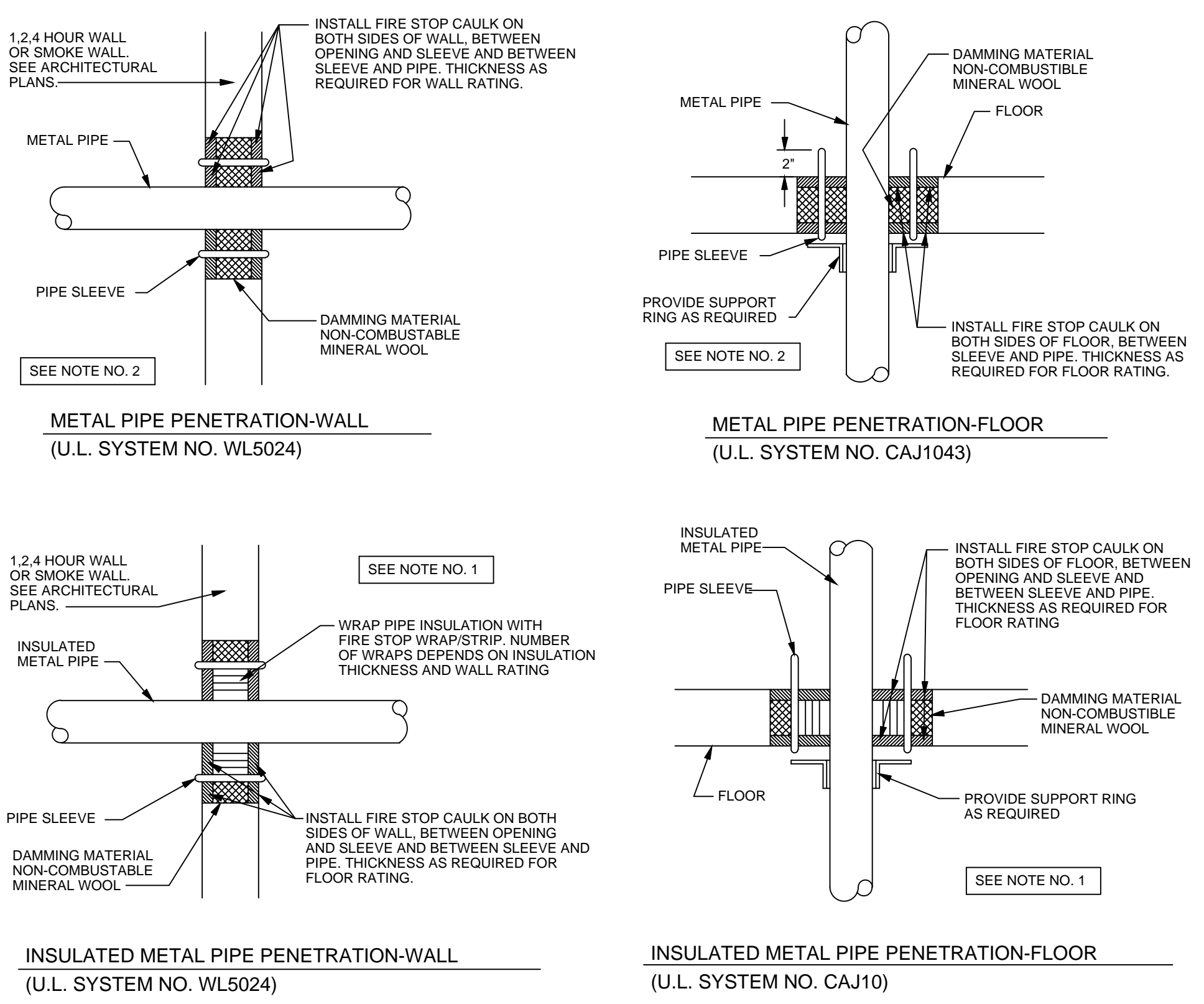
PLUMBING PUMP SCHEDULE										
MARK	LOCATION	TYPE	CIRCULATING FLUID			ELECTRICAL MOTOR			BASIS OF DESIGN	REMARKS
			FLUID	FLOW GPM	HEAD FT	NOMINAL POWER HP	PHASE	VOLT		
RP-1	FIRST FLOOR JANITORS CLOSET	INLINE	DOMESTIC HOT WATER	3.8	3	50 W	1	120	TACO 003	1

NOTES:
1) PROVIDE WITH TMER.

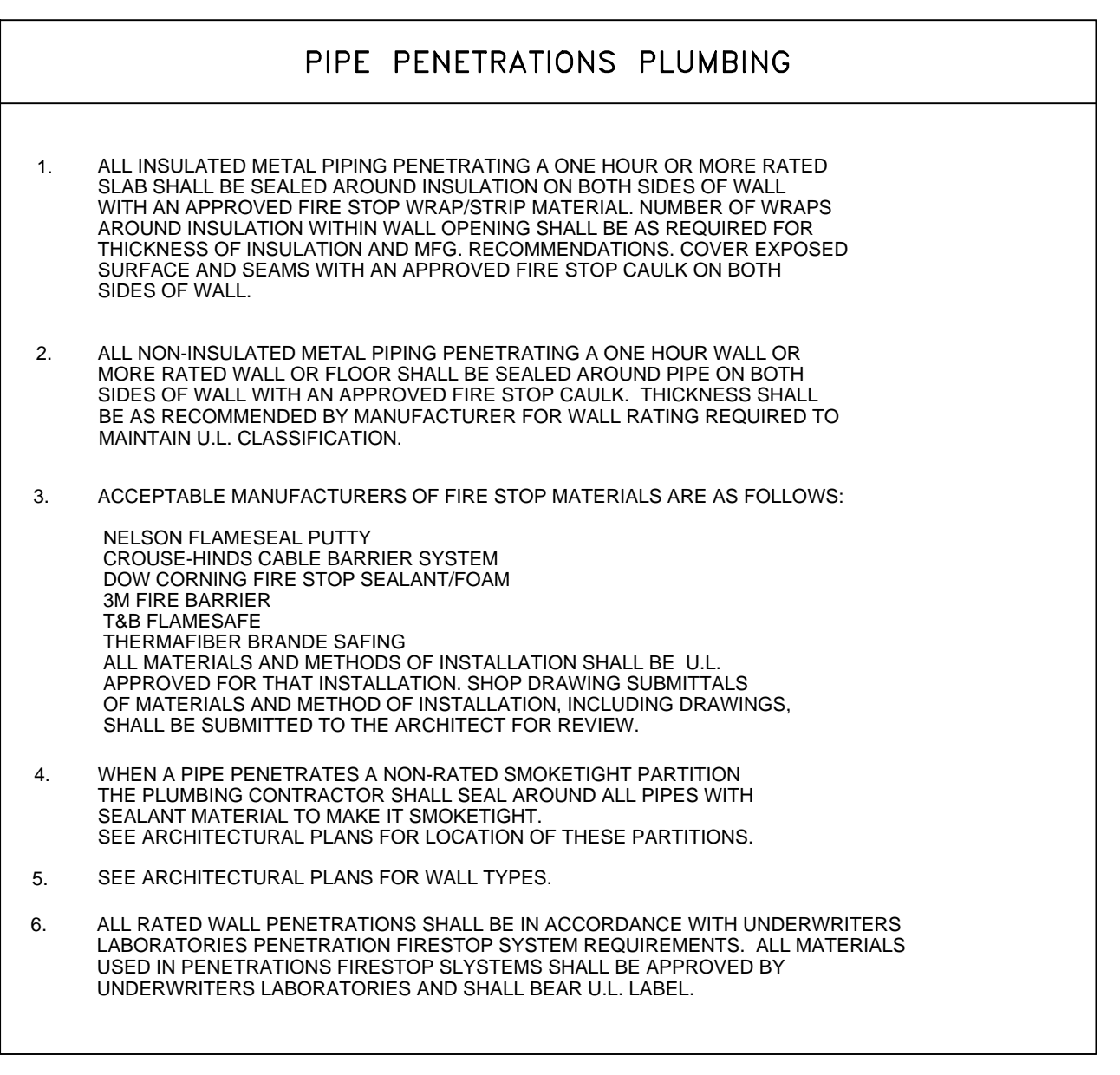


6 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
P07.01 SCALE: NTS

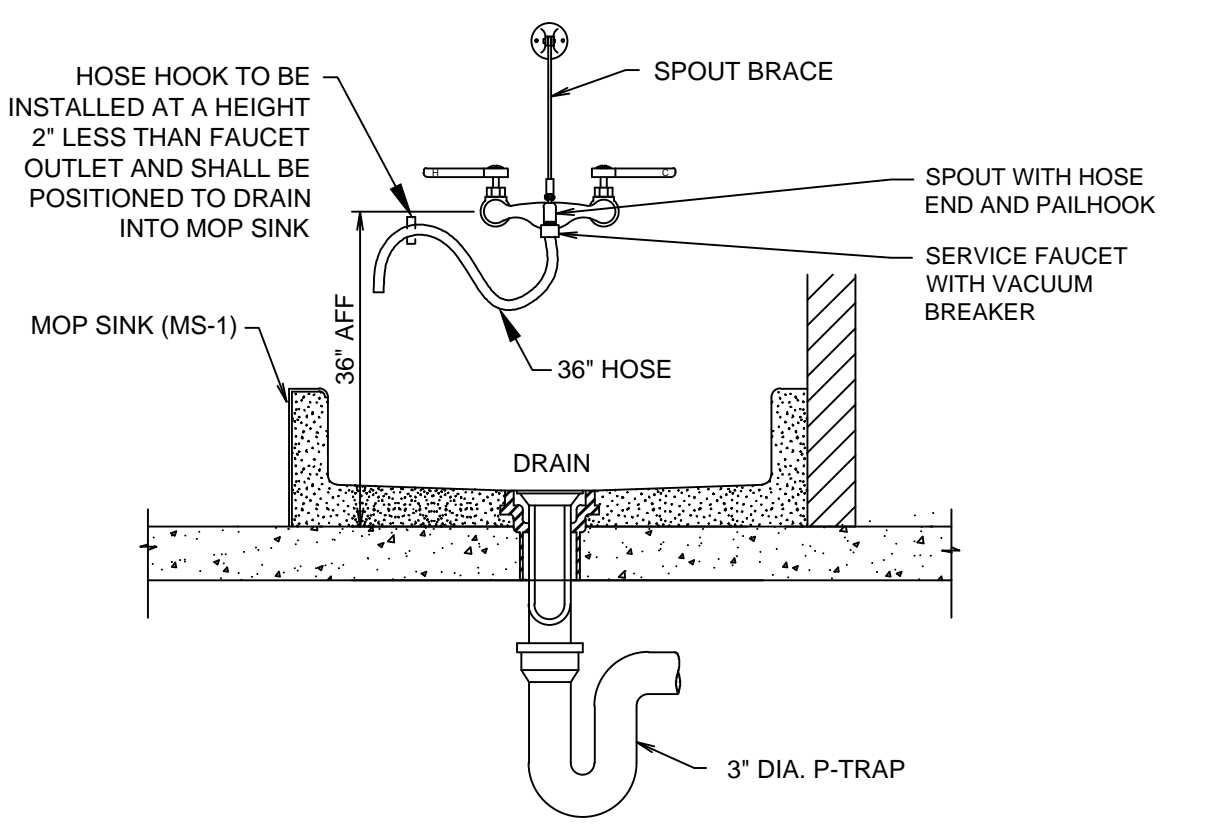
NOTE:
1. GC TO PROVIDE SUPPORT FOR EXPANSION TANK.
2. PROVIDE VACUUM BREAKER ON BOTTOM INLET WATER HEATER.
3. PROVIDE HEAT TRAPS IN ACCORDANCE WITH THE LOCAL ENERGY CONSERVATION CODE.



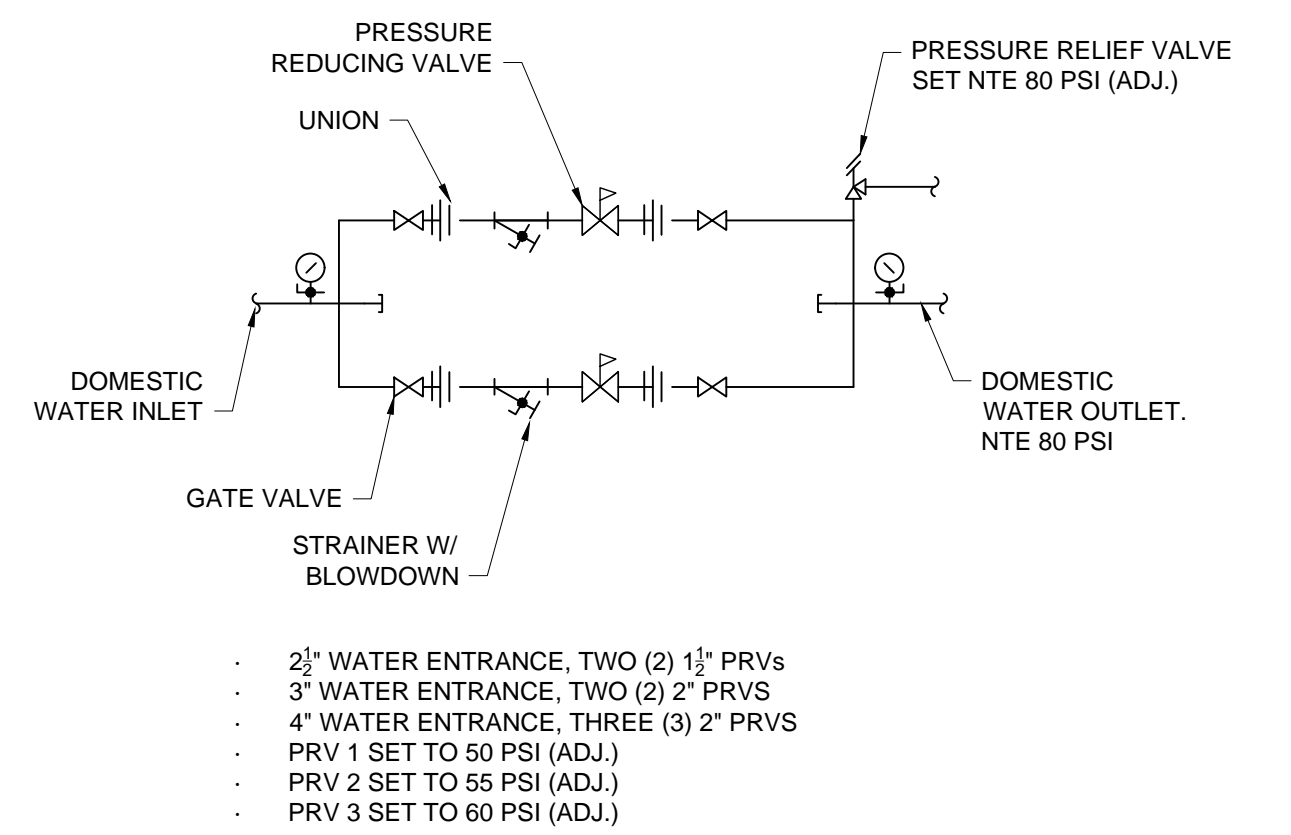
5 RATED PENETRATION DETAIL
P07.01 SCALE: NTS



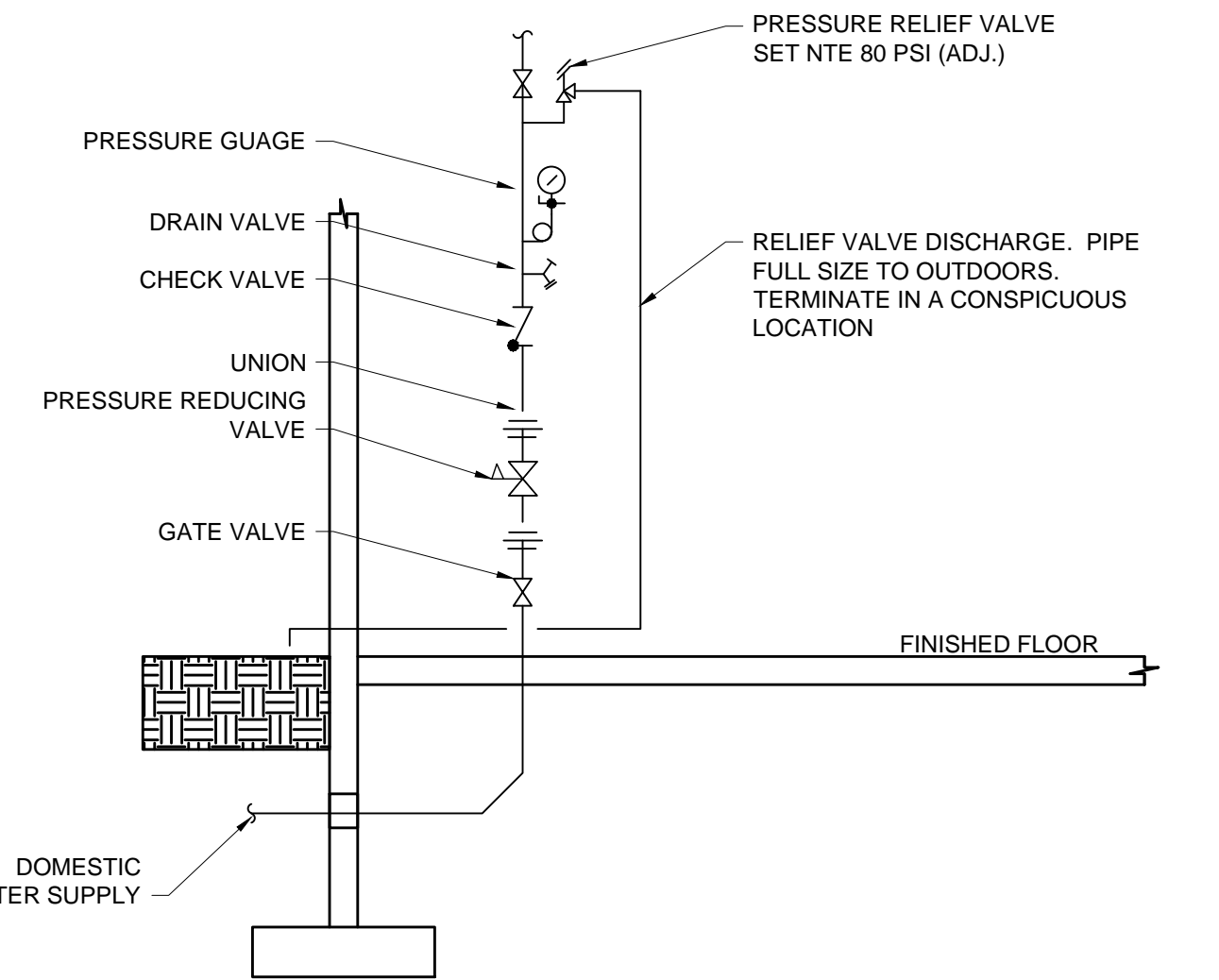
PIPE PENETRATIONS PLUMBING



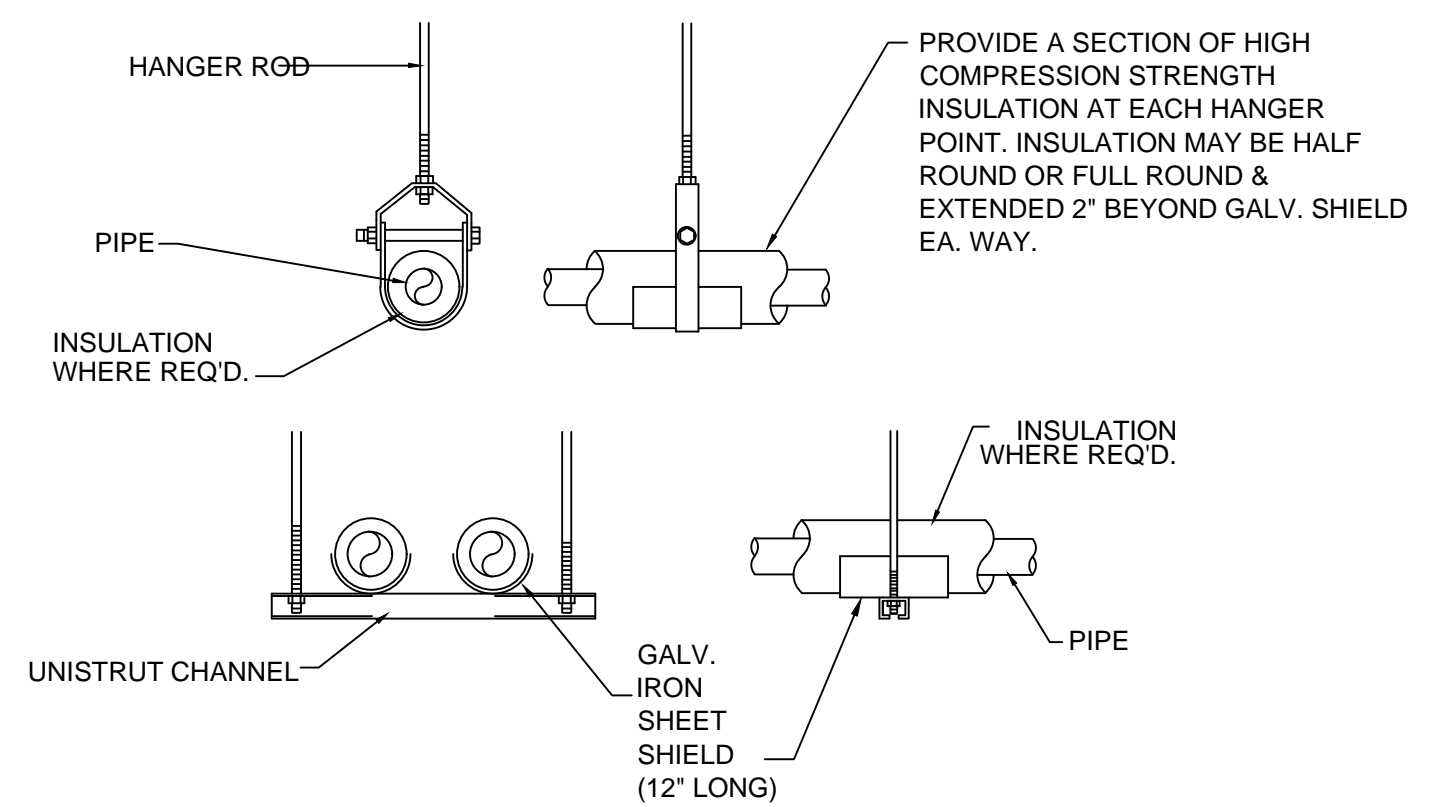
4 MOP SINK DETAIL
P07.01 SCALE: NTS



3 PRESSURE REDUCING STATION DETAIL
P07.01 SCALE: NTS



2 WATER SERVICE DETAIL
P07.01 SCALE: NTS

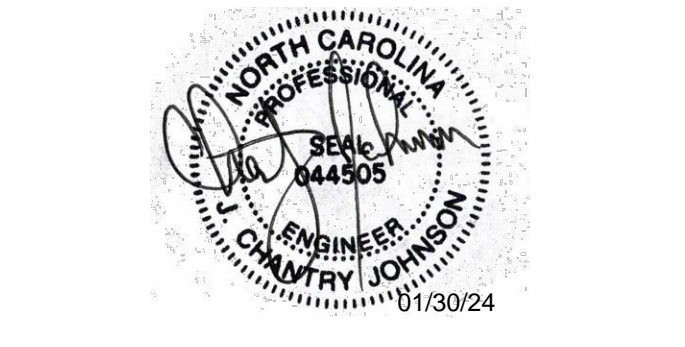


1 PIPE HANGER DETAIL
P07.01 SCALE: NTS

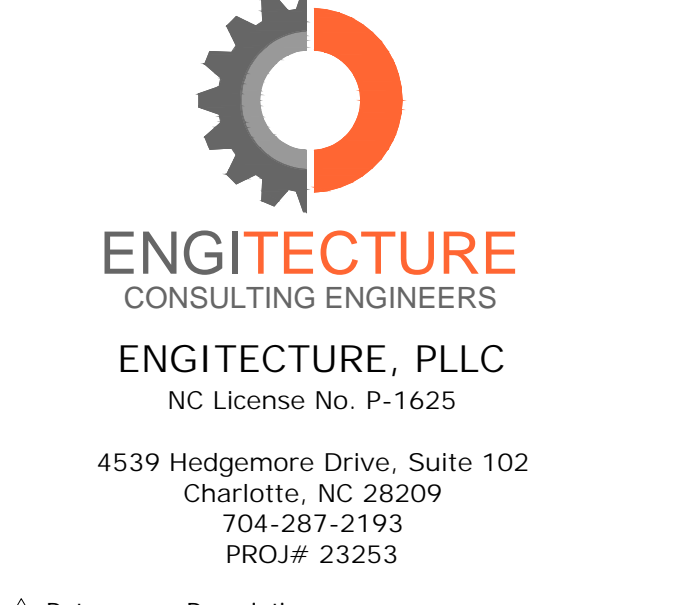
NOTES:
1. ATTACH SUPPORTS FOR ALL PIPING SUSPENDED FROM THE STEEL STRUCTURE TO THE TOP CORD OF JOISTS OR BEAMS.
2. PROVIDE COPPER OR PLASTIC COATED HANGERS FOR NON-INSULATED COPPER PIPE.



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making church come alive
658 GRAHAM ROAD
SANFORD NC 27311

Client
3D COMMUNITY CHURCH
Project Number
23024.00
Description
DETAILS - PLUMBING

Scale

P07.01