

MAYSVILLE FIRE STATION

603 4TH STREET

MAYSVILLE, NC 28555



INTREPID
ARCHITECTURE

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REVISIONS:

#	DESC:	DATE
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DRAWN BY: DJH

PROJECT #: 24008

ISSUE DATE: 04/30/2025

PHASE:

CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

VICINITY MAP, DRAWING INDEX,
SYMBOLS, ABBREVIATIONS, &
GENERAL NOTES

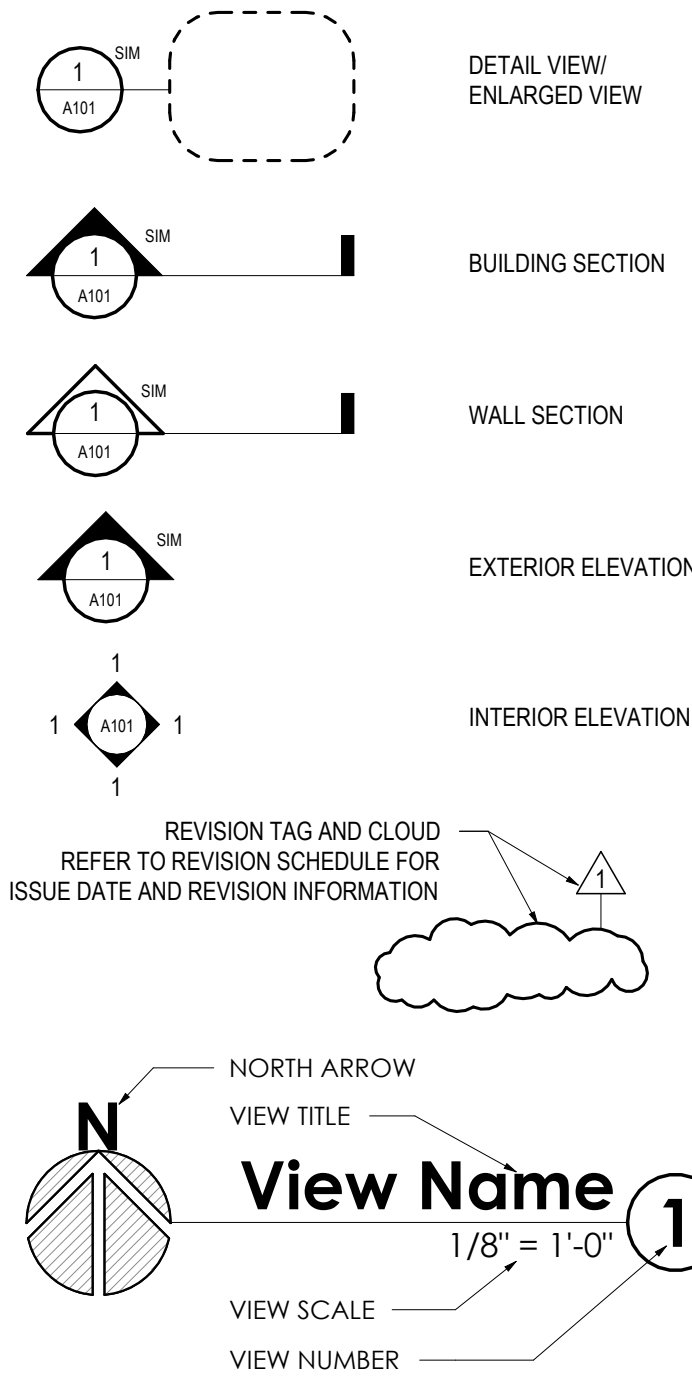
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GENERAL ABBREVIATIONS:

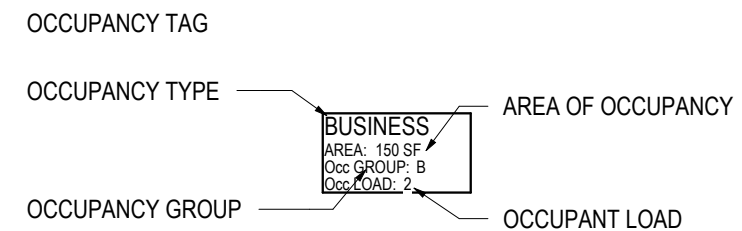
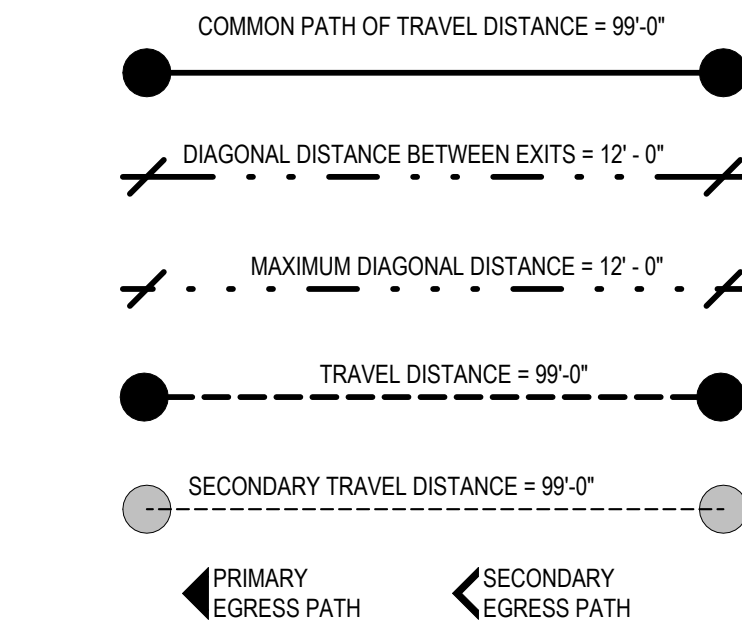
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT OF 1992
ADJ.	ADJACENT
AFF	ABOVE FLOOR FINISH
AFG	ABOVE FINISHED GRADE
ARA	AREA OF RESCUE ASSISTANCE
BD	BOARD
BW	BETWEEN
BOF	BOTTOM OF FOOTING
BOT	BOTTOM
CAN	CANOPY
CI	CAST IRON
CPT	CARPET
CLG. HT.	CEILING HEIGHT
CL	CENTER LINE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC.	CONCRETE
CONT.	CONTINUOUS
CRS	CHAIN ROLLER SHADE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DO	DOOR OPENING
DS	DOWNSPOUT
DWG.	DRAWINGS
EA	EACH
EC	ELECTRICAL CONTRACTOR
E.J.	EXPANSION JOINT
ELEC.	ELECTRICAL
EQ	EQUAL
EXIST	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FFE	FINISHED FLOOR ELEVATION
GYP	GYPSUM
GC	GENERAL CONTRACTOR
HB	HOSE BIB
HDW	HARDWARE
HLB	HORIZONTAL LOUVER BLIND
HM	HOLLOW METAL
HT	HEIGHT
HVAC	HEAT, VENTILATION & AIR CONDITIONS
HWC	HOLLOW CORE WOOD DOOR
INSUL	INSULATION
INT	INTERIOR
LVL	LAMINATED VENEER LUMBER
LVT	LUXURY VINYL TILE
MAX	MAXIMUM
MANUF	MANUFACTURER
MECH.	MECHANICAL
MIN.	MINIMUM
MO	MASONRY OPENING
MRS	MOTORIZED ROLLER SHADE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.P.C.I.	OWNER PROVIDED CONTRACTOR INSTALLED
OPP.	OPPOSITE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PGB	PAINTED GYPSUM BOARD
PT	PAINT
RB	RUBBER BASE
RD	ROOF DRAIN
REINF	REINFORCED
REQD	REQUIRED
RM	ROOM
RO	ROUGH OPENING
SAB	SOUND ABATING BATTING
SD	SMOKE DETECTOR
SF	SQUARE FEET
SIM	SIMILAR
SPECS	SPECIFICATIONS
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL DRAWINGS
SWC	SOLID WOOD CORE DOOR
SY	SQUARE YARD
CT	CERAMIC TILE
TERM	TERMINATION/TERMINATE
THRESH	THRESHOLD
T&G	TONGUE AND GROOVE
TOF	TOP OF
TOM	TOP OF FOOTING
TOM	TOP OF MASONRY
TOP	TOP OF PLATE
TOS	TOP OF STEEL
TOW	TOP OF WALL
TS	TRANSITION STRIP
TWF	THROUGH-WALL FLASHING
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR	VARIABLES
VCT	VINYL COMPOSITE TILE
WC	WATER CLOSET
WB	WOOD BASE
WD	WOOD
WI	WITH
WIO	WITHOUT

GENERAL SYMBOLS:

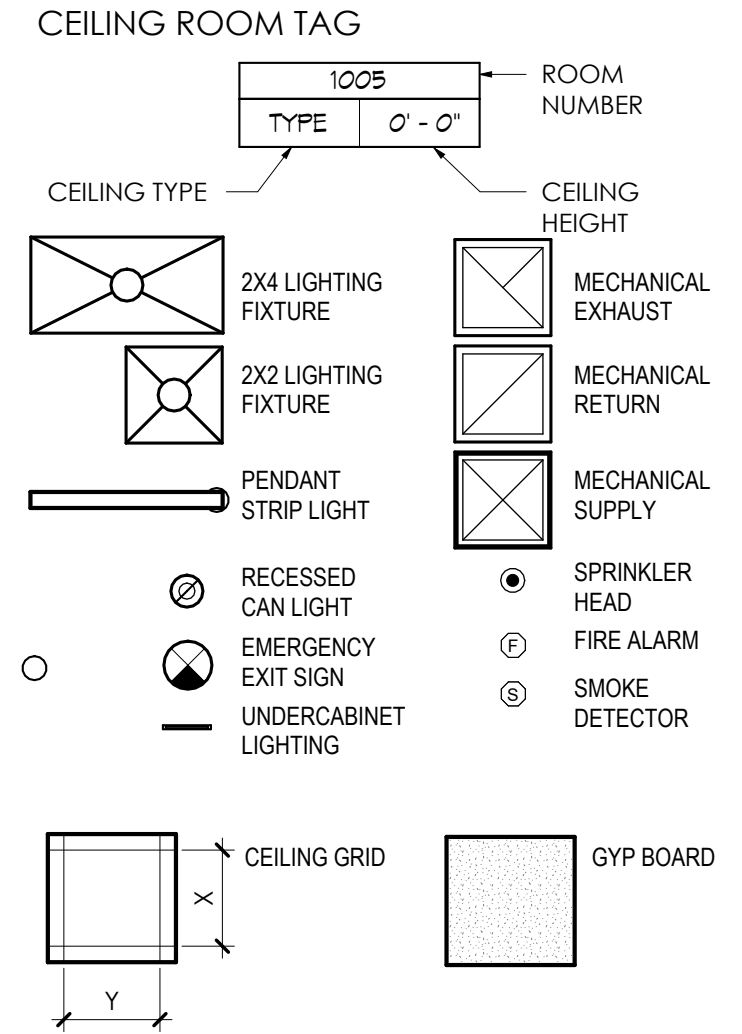
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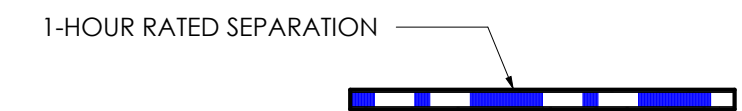
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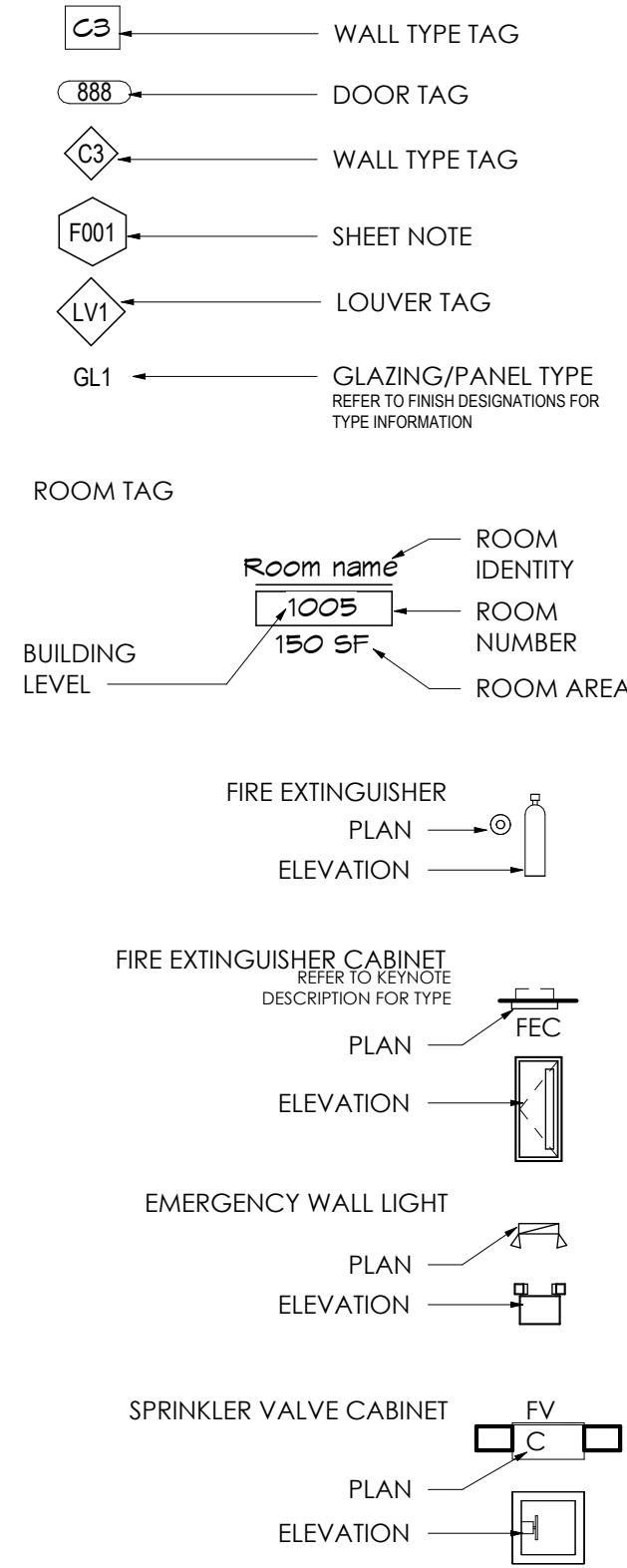
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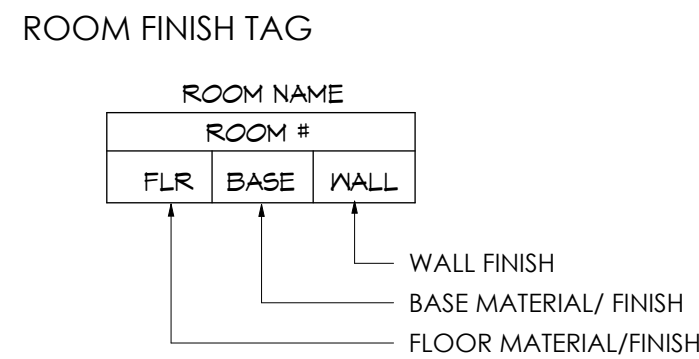
FIRE RATING LEGEND:



GENERAL ANNOTATION SYMBOLS:



FINISH SYMBOLS



FLOOR MATERIALS/FINISH LEGEND

C	CARPET
VCT	VINYL COMPOSITION TILE
CT	CERAMIC TILE
PT	PAVER TILE
EC	EXPOSED CONCRETE, SEALED
LVT	LUXURY VINYL TILE
EP	EPOXY
EX	EXPOSED

BASE MATERIALS/FINISH LEGEND

RB	RUBBER BASE
PW	PAINTED WOOD
SW	STAINED WOOD
CTB	CERAMIC TILE BASE

WALL MATERIALS/FINISH LEGEND

PM	PAINTED MASONRY
PT	PAINTED
VW	VINYL WALL COVERING
CT	CERAMIC TILE GLAZED WALL
E	EXPOSED CONSTRUCTION, UNPAINTED
EP	EXPOSED CONSTRUCTION, PAINTED
ES	EXPOSED STEEL, UNPAINTED
PS	EXPOSED STEEL, PAINTED
PGB	PAINTED GYPSUM BOARD

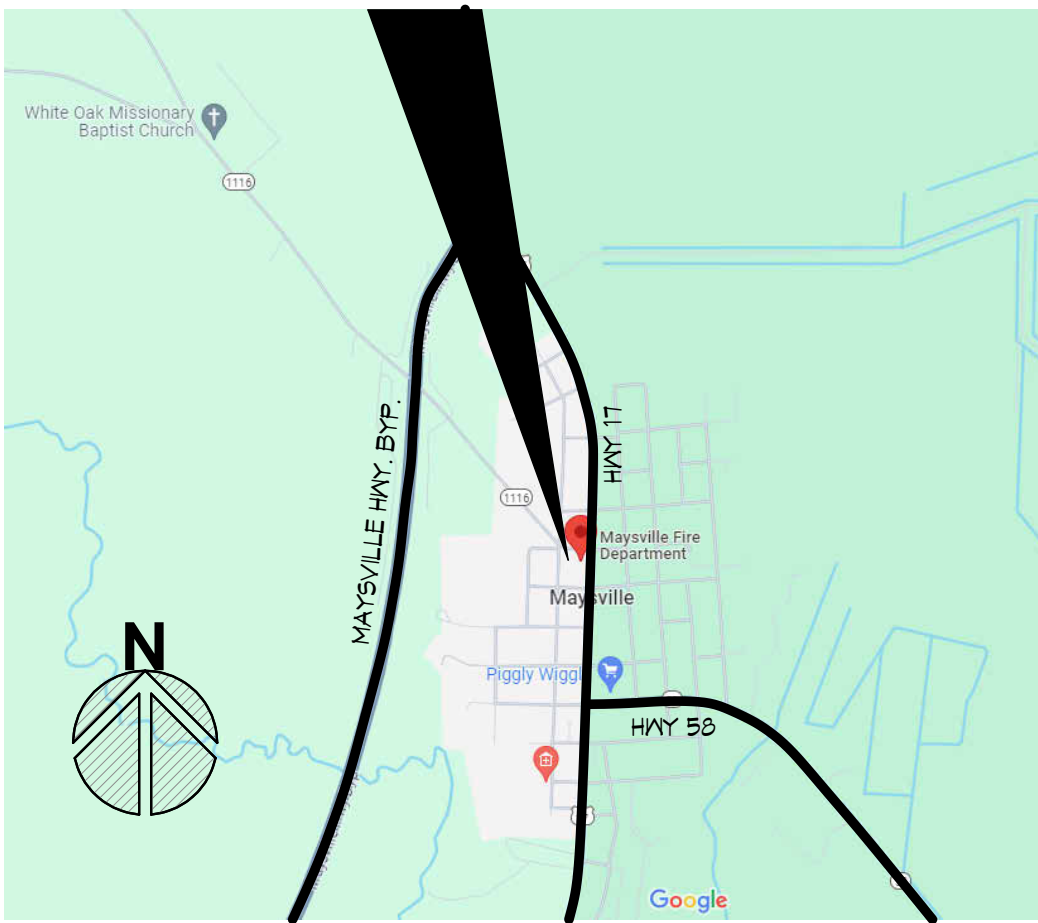
CEILING MATERIALS/FINISH LEGEND

ACT	ACOUSTICAL PANEL CEILING
GYP	PAINTED GYPSUM BOARD
EX	EXPOSED CONSTRUCTION, UNPAINTED
EP	EXPOSED CONSTRUCTION, PAINTED
VAR	VARIABLES, HEIGHT
MSF	FIBER CEMENT BOARD SOFFIT PANEL - PERFORATED
WD	WOOD-LOOK METAL SOFFIT PANELING

*NOTE REGARDING ALL FINISH TAGS - IF DESIGNATION IS FOLLOWED BY NUMERAL, DENOTES SPECIFIC MATERIAL TYPE WITHIN CATEGORY (REFER TO FINISH SCHEDULE)

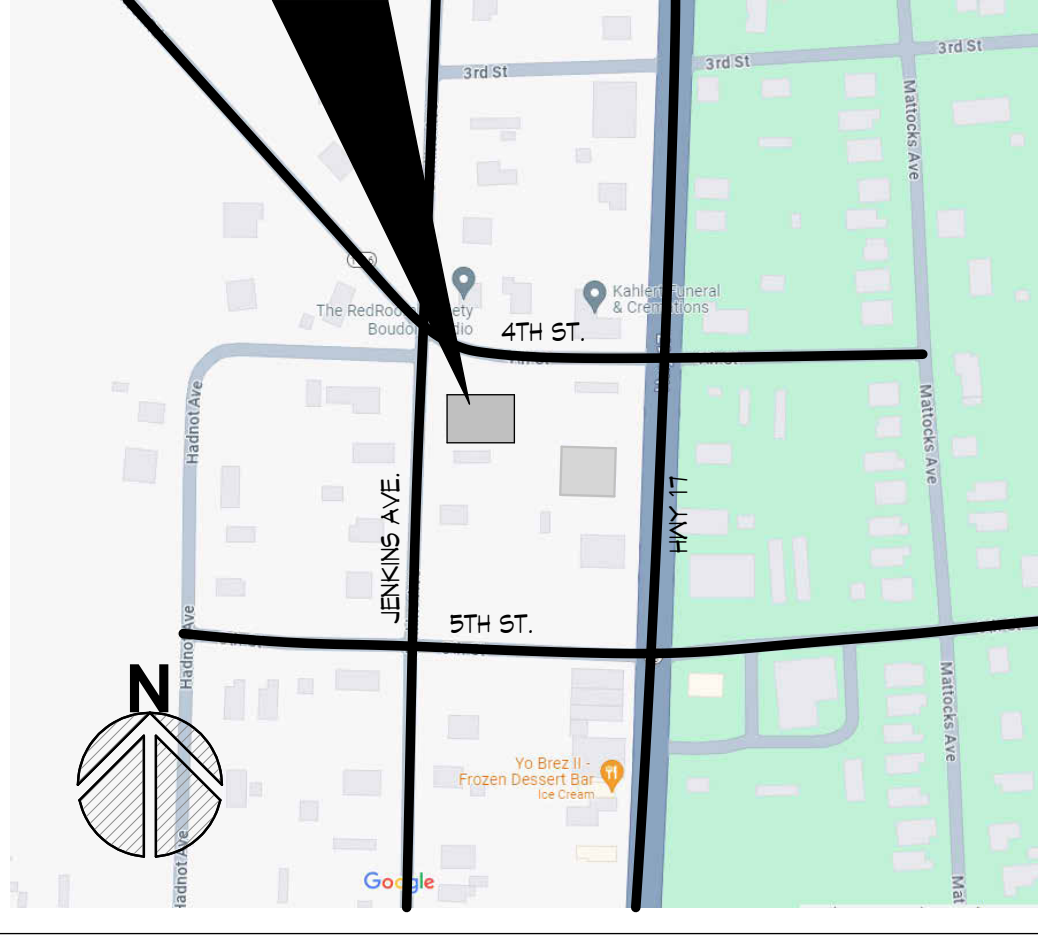
VICINITY MAP:

603 4TH STREET
MAYSVILLE, NC 28555



LOCATION MAP:

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MAYSVILLE, NC 28555



DRAWING SHEET INDEX

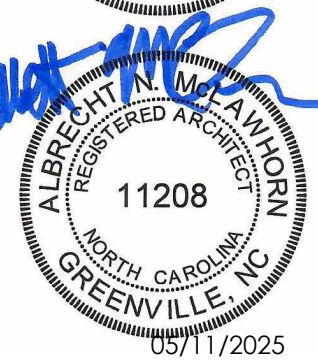
NO	NAME	ISSUED	REVISION: NO DATE
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E2.01	ELECTRICAL DETAILS	04/30/2025	
E2.02	ELECTRICAL DETAILS	04/30/2025	
E3.01	ELECTRICAL SCHEDULES	04/30/2025	
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CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

GENERAL NOTES & INTERIOR
PARTITION SCHEDULE

G0.01

GENERAL NOTES

- CONTRACTOR REQUIRED TO MAKE A SITE VISIT PRIOR TO SUBMITTING BID. UPON SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THEIR FAMILIARITY WITH THE PROJECT SITE AND EXISTING CONDITIONS.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT FOR DIRECTION.
- ALL WORK TO COMPLY WITH CURRENT APPLICABLE LOCAL CODES INCLUDING, BUT NOT LIMITED TO, THE NORTH CAROLINA BUILDING CODE, THE NORTH CAROLINA EXISTING BUILDING CODE, AND ANSI A117.1, ETC. REFER TO MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SHEETS FOR ADDITIONAL APPLICABLE CODES FOR THEIR RESPECTIVE SCOPES OF WORK.
- IF CONTRACTOR REQUESTS PRESENCE OF ARCHITECT ON SITE, CONTRACTOR TO GIVE ARCHITECT MINIMUM OF 48 HOURS NOTICE.
- INTERIOR PARTITIONS ARE DIMENSIONED FROM FACE OF STUD TO FACE OF STUD, UNLESS NOTED OTHERWISE. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESS OF FINISHED WALL MATERIAL WHEN LAYING OUT WALLS NOTED TO BE "CLEAR". DOT AT DIMENSION TICK INDICATES MEASUREMENT TO FACE OF FINISHED SURFACE. PLAN NORTH/SOUTH DIMENSION STRINGS ARE ON THE PLAN NORTH FACE OF INTERIOR STUD. PLAN EAST/WEST DIMENSION STRINGS ARE PICKED FROM THE PLAN EAST FACE OF INTERIOR STUD. ALL INTERIOR DIMENSION STRINGS AT EXTERIOR WALLS PICK FROM INSIDE FACE OF STUD OR WALL U.N.O.
- CONTRACTOR RESPONSIBLE FOR FIELD VERIFYING ALL UTILITIES AND UNDERGROUND ITEMS AS REQUIRED FOR THIS SCOPE OF WORK. CONDITIONS THAT PROHIBIT THE WORK FROM BEING PERFORMED AS SHOWN SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR EVALUATION BEFORE CONTINUING WITH WORK.
- CONTRACTOR RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION. ANY DISCREPANCIES FROM THE DRAWINGS SHALL BE CONVEYED TO THE ARCHITECT FOR EVALUATION PRIOR TO CONTINUING WORK.
- CONTRACTOR RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AS WELL AS COORDINATING AND SCHEDULING ALL REQUIRED INSPECTIONS. ARCHITECT AND OWNER TO BE NOTIFIED OF SCHEDULED INSPECTION WITH 3 DAYS' NOTICE SO THEY CAN WITNESS THE INSPECTION IF DESIRED.
- CONTRACTOR RESPONSIBLE FOR COORDINATING ALL SCHEDULES WITH OWNER AND ARCHITECT PRIOR TO START OF CONSTRUCTION.
- SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SIZES. CONTRACTOR RESPONSIBLE TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.
- CLEAN ALL SPACES WHERE DEMOLITION/CONSTRUCTION HAS OCCURRED AT THE CLOSE OF EACH DAY. MAINTAINING A CLEAN AND SAFE SITE IS THE RESPONSIBILITY OF THE GC.
- COORDINATE ALL PLUMBING, MECHANICAL, ELECTRICAL WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR EVALUATION PRIOR TO CONTINUING WORK.
- PROVIDE SOLID BLOCKING FOR ALL WOOD CASINGS, TRIM, CASEWORK, AND ANY OTHER WALL-MOUNTED ITEM OR ACCESSORY. ALL BLOCKING TO BE FIRE RETARDANT TREATED WOOD.
- DISCREPANCIES WITHIN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER IMMEDIATELY. IF REQUIRED, THE CONTRACTOR SHALL PRICE/PROVIDE THE MORE EXPENSIVE OPTION UNTIL FURTHER CLARIFICATION CAN BE GIVEN.
- ACCESS PANELS SHALL BE LOCATED AS REQUIRED TO ACCESS ITEMS ABOVE CEILING OR WITHIN WALLS. A SHOP DRAWING SHALL BE SUBMITTED TO ARCHITECT AND OWNER FOR REVIEW AND APPROVAL SHOWING LOCATION OF ALL ACCESS PANELS.
- PROVIDE PROJECT SITE SIGN ERECTED IN PROMINENT LOCATION ON SITE, IN A LOCATION APPROVED BY THE OWNER. SIGN SHALL BE 4'X8' AND SHALL INCLUDE THE NAME AND RENDERING OF PROJECT, LOGOS AND NAMES OF THE FOLLOWING: ALL DESIGN TEAM MEMBERS, THE OWNER, AND THE GENERAL CONTRACTOR. SIGN SHALL BE CONSTRUCTED OF A MATERIAL THAT WILL STAND UP TO THE ELEMENTS OVER THE COURSE OF THE PROJECT CONSTRUCTION WITHOUT FAILURE OR DETERIORATION. IMAGES AND LOGOS SHALL BE SHARED BY THE ARCHITECT FOR USE IN THE SIGN CREATION.
- PROVIDE AND INSTALL MOCK-UP PANEL OF NEW EXTERIOR WALL ASSEMBLIES INCLUDING HEAD AND SILL CONDITIONS, TRANSITIONS BETWEEN ADJACENT WALL ASSEMBLIES, ROOFING TRANSITION, COPING, ETC. FOR REVIEW AND APPROVAL BY DESIGN TEAM AND OWNER PRIOR TO OVERALL CONSTRUCTION.
- ALL NEW DOOR FRAMES TO BE LOCATED 4" FROM FACE OF ADJACENT PERPENDICULAR WALL, U.N.O.
- INSTALL NEW ROOM SIGNAGE THROUGH BUILDING. OWNER TO REVIEW ROOM NAMES AND NUMBERS PRIOR TO ORDERING AND FABRICATION. SEE A4 SERIES FOR SIGN TYPES.
- PROVIDE AND INSTALL NEW CORDLESS MINI BLINDS ON ALL WINDOWS THROUGHOUT BASEMENT, U.N.O. REFER TO RCP AND ELECTRICAL DRAWINGS FOR EXTENT OF LIGHTING REMOVAL AND REPLACEMENT.

GENERAL FINISH NOTES:

- TRANSITION STRIPS BETWEEN DISSIMILAR FLOOR TYPES REQUIRED (IE - BETWEEN CARPET AND TILE, VCT AND TILE, ETC). TRANSITIONS TO BE ADA COMPLIANT, UTILIZE REDUCERS/TRANSITION AT THE SUBSURFACE, ETC. PROVIDE COMPLIANT TRANSITIONS BETWEEN DIFFERING FLOOR THICKNESSES. SEE A7 SERIES AND FINISH SCHEDULE/PLANS FOR TRANSITION STRIP TYPES. CONTRACTOR SHALL ASSUME A TRANSITION STRIP SIMILAR TO OTHERS IN THE PROJECT FOR PRICING PURPOSES UNTIL FURTHER CLARIFICATION CAN BE GIVEN BY THE DESIGNER.
- PROVIDE AND INSTALL SEALANT MATCHING COLOR OF GRID AT JOINT BETWEEN ACT GRID AND WALL. FINAL WALL PAINT CUT IN AFTER SEALANT INSTALLATION IS REQUIRED.
- PAINT PRE-INSTALL MEETING IS REQUIRED. ARCHITECT AND OWNER SHALL WALK WITH PAINTING CONTRACTOR AND GC TO REVIEW PAINT COLOR LOCATIONS PRIOR TO START OF PAINT.
- NEW FLOORING IN BATHROOMS AND ACCESS CORRIDORS SHALL BE AS NOTED ON FINISH SCHEDULE. MUD BED WILL BE INSTALLED TO ACCOMMODATE FLOOR SLOPES TO DRAINS AS SHOWN IN ENLARGED PLANS IN A4 SHEETS. COORDINATE DOOR FRAME HEIGHT WITH SLOPES.
- PRIOR TO INSTALLING NEW FLOORING, ENSURE SUBSURFACE IS PREPPED TO ACCOMMODATE NEW FINISH. THIS MAY INCLUDE CEMENTITIOUS FLOOR LEVELING, ETC. PER FLOORING MANUFACTURER REQUIREMENTS. IF SURFACE IS NOT APPROPRIATELY PREPPED, THE INSTALLING CONTRACTOR SHALL ALERT THE CMR PRIOR TO INSTALLATION.

ALL BATHROOMS AND WET AREAS THAT ARE TO RECEIVE TILE OR EPOXY FLOORING SYSTEMS SHALL RECEIVE A WATERPROOFING/CRACK ISOLATION MEMBRANE. EVERY BATHROOM POD WILL PASS A FLOOD TEST PRIOR TO THE INSTALLATION OF THE FINISH FLOOR MATERIAL. SEE TYPICAL DETAILS FOR FINISHES/INTERIORS IN THE A7 SERIES.

GENERAL PARTITION NOTES:

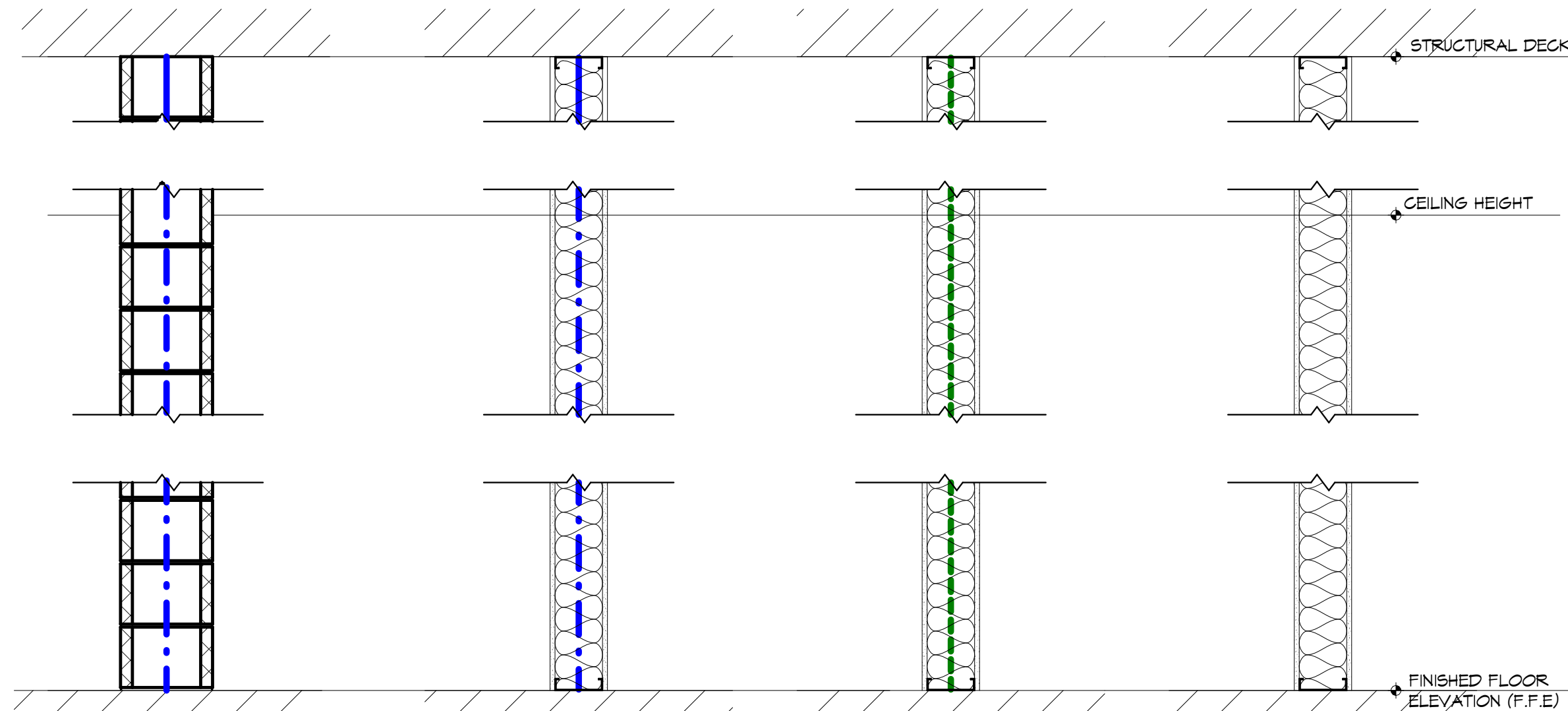
- ALL INTERIOR GYPSUM BOARD SURFACES SHALL HAVE TYPE X 5/8" GYPSUM BOARD. ALL CORRIDORS, CLASSROOMS, AND TRAINING ROOMS, SHALL HAVE IMPACT RESISTANT GYPSUM BOARD INSTALLED. ALL WET AREAS, INCLUDING BATHROOMS, KITCHENS, ETC SHALL HAVE MR GYPSUM BOARD INSTALLED WHERE THE WALL FINISH IS INDICATED TO BE PAINT. ANYWHERE TILE IS INDICATED TO BE INSTALLED SHALL RECEIVE 5/8" GLASSMAT SHEATHING UNDERLAYMENT.
- FOR AREAS OF THE PROJECT WHERE CEILING LOADS DO NOT EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING MAY BE UTILIZED: 1) ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS. MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT THE OTHER TWO WALLS. IF MANUFACTURER RECOMMENDATIONS CONFLICT, INFORM THE ARCHITECT IMMEDIATELY PRIOR TO CONTINUING WORK FOR FURTHER DIRECTION.
- PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITHIN 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL, OR WHERE A FLOATING CEILING TERMINATES.
- SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS/GRILLES DIRECTLY BY WIRES TO THE STRUCTURE ABOVE.
- LOCATE REGISTERS AND LIGHTING FIXTURES WITHIN GRID LINES. CENTER SPRINKLER HEADS, SPEAKERS, RECESSED FIXTURES, AND ALL OTHER CEILING ELEMENTS IN ACOUSTICAL TILES, UNLESS OTHERWISE NOTED.
- FINISH HVAC DIFFUSERS, DRAPERY/SHADE POCKETS, SPEAKER GRILLES AND OTHER ITEMS LOCATED IN CEILING TO MATCH ADJACENT FINISH, UNLESS OTHERWISE NOTED.
- LOCATION OF ELECTRICAL, MECHANICAL, AND PLUMBING FIXTURES INDICATED ON ARCHITECTURAL BACKGROUNDS ARE FOR LOCATION PURPOSES ONLY. REFER TO ENGINEERING DRAWINGS FOR FINAL TYPES AND QUANTITIES. IF A DISCREPANCY EXISTS, INFORM THE ARCHITECT FOR CLEAR DIRECTION.
- UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT AND PIPING PERMITTED TO BE PAINTED PER THE NORTH CAROLINA STATE BUILDING CODE SHALL BE PAINTED. REFER TO FINISH SCHEDULE FOR PAINT SELECTIONS. CONFER WITH OWNER TO CONFIRM STANDARD PAINT COLORS AS WELL.
- UNLESS NOTED OTHERWISE, ALL ELECTRICAL LIGHTING TO BE CENTERED IN THE SPACE.

GENERAL FIRE PREVENTION NOTES:

- INTERIOR WALL AND CEILING FINISHES IN STAIRWAYS, EXIT PASSAGEWAYS, AND CORRIDORS ARE SPECIFIED TO BE CLASS A (FLAME SPREAD 0-25, SMOKE DEVELOPMENT 450 OR LESS) OR BETTER, UNLESS NOTED OTHERWISE.
- INTERIOR WALL AND CEILING FINISHES IN ROOMS AND OTHER ENCLOSED SPACES ARE SPECIFIED TO BE CLASS B (FLAME SPREAD 26-75, SMOKE-DEVELOPED INDEX LESS THAN 450) OR BETTER, UNLESS OTHERWISE NOTED.
- INTERIOR TRIM IS SPECIFIED TO BE CLASS 3 (FLAME SPREAD 76 TO 200, SMOKE DEVELOPMENT OF 450 OR LESS) OR BETTER.
- THIS PROJECT DOES NOT INCLUDE STORAGE, DISPENSING OR USE OF ANY FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GAS, OR HAZARDOUS SUBSTANCES.
- ALL WOOD BLOCKING, CLEATS, GROUNDS, SHEATHING AND OTHER MISC. CARPENTRY ITEMS SHALL BE FIRE RETARDANT TREATED.
- FLOOR COVERING FOR CORRIDORS, LOBBIES, STAIRS, OTHER EXIT PATHS OR EXIT AREAS ARE SPECIFIED TO BE CLASS B OR BETTER.

GENERAL FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, FIRE ALARM & TELECOM NOTES:

- REFERENCE ALL PME/FP SHEETS FOR ALL STANDARDS AND DESIGN INFORMATION.
- INDICATED DIMENSIONS ARE TO THE CENTER LINE OF OUTLETS OR SWITCHES, OR CLUSTERS OF OUTLETS OR SWITCHES, UNLESS NOTED OTHERWISE.
- PROVIDE MATCHING COVER PLATES AND DEVICES, UNLESS NOTED OTHERWISE.
- GC TO COORDINATE FINAL LAYOUT OF ELECTRICAL AND DATA OUTLETS WITH FINAL SELECTION OF FURNITURE AND CASEWORK PRIOR TO INSTALLATION OF FLOOR BOXES AND RECEPTACLES U.N.O.
- GC RESPONSIBLE FOR COORDINATING AND SCHEDULING INSPECTIONS BY THE STATE ELECTRICAL INSPECTOR PRIOR TO RE-ENERGIZING CIRCUITS AFTER ELECTRICAL ITEMS ARE COMPLETE.

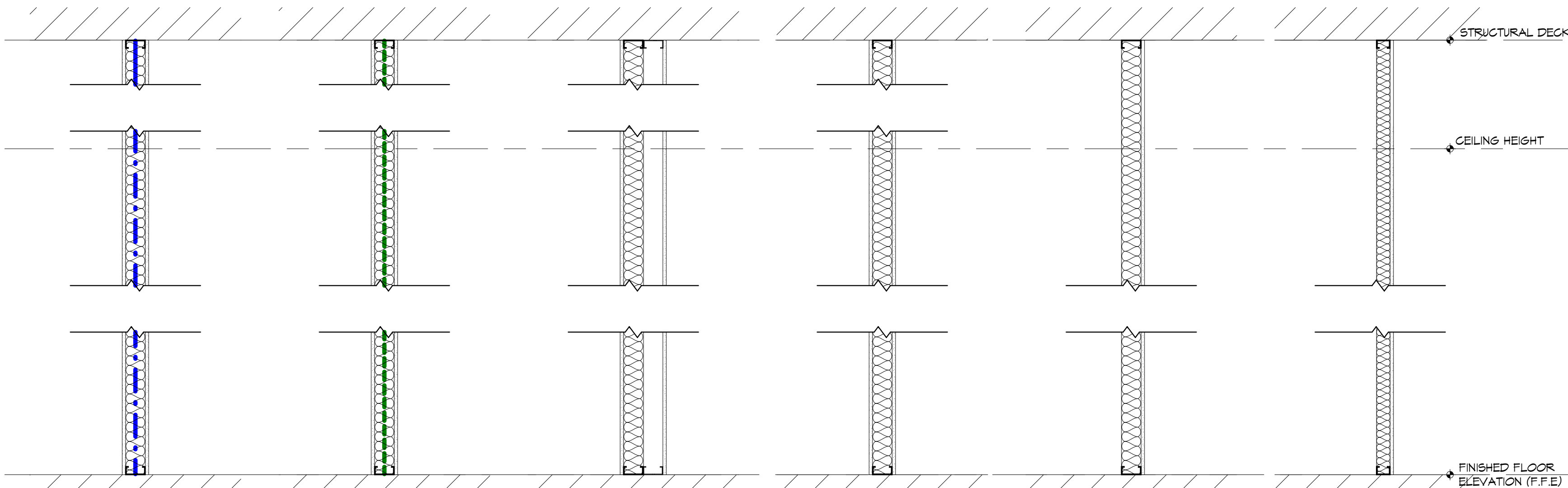


12X 12" CMU, TIGHT TO STRUCTURAL DECK. PAINTED ON BOTH SIDES UNLESS ABOVE CEILING. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 14" O.C. VERTICALLY. 1-HOUR RATED ASSEMBLY. UL U908 (1-HOUR)

6X 6" METAL STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 6" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT. 1-HOUR RATED ASSEMBLY. UL U419

6Y 6" METAL STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 6" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT. 30 MINUTE RATED ASSEMBLY. UL U419 (1-HOUR)

6A 6" METAL STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 6" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT.



4X 3 5/8" METAL STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT. 1-HOUR RATED ASSEMBLY. UL U419

4Y 3 5/8" METAL STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT. 30 MINUTE RATED ASSEMBLY. UL U419 (1-HOUR)

4D 2 STAGGERED 3 5/8" METAL STUDS SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT.

4B 3 5/8" METAL STUD SPACED 16" O.C. TO STRUCTURAL DECK* WITH DEFLECTION TRACK WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON BOTH SIDES TO STRUCTURAL DECK WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID. *IF WALL IS BELOW 2ND FLOOR, WALL SHALL TERMINATE AT THE UNDERSIDE OF THE 2ND FLOOR DECK. BEARING WALLS REF. STRUCT. ALL PARTITIONS SHALL BE 4B UNLESS NOTED OTHERWISE

4A 3 5/8" METAL STUD SPACED 16" O.C. TO 4" ABOVE CEILING WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON ONE SIDE WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID.

2A 2 1/2" METAL STUD SPACED 16" O.C. TO 4" ABOVE CEILING WITH 3 1/2" MINERAL WOOL SOUND ATTENUATION BLANKETS WITH STRAPPING TO SECURE BETWEEN STUDS. WITH 5/8" GMB ON ONE SIDE WITH CONTINUOUS ACOUSTICAL JOINT SEALANT AT CEILING GRID.

INTERIOR PARTITION SCHEDULE

3/4" = 1'-0"

1

2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 - FAMILY DWELLINGS AND TOWNHOUSES)
(REPRODUCE THE FOLLOWING DATA ON THE BUILDING PLAN SHEET 1 OR 2)

NAME OF PROJECT: MAYSVILLE FIRE STATION

ADDRESS: 603 4TH STREET, MAYSVILLE, NC 28555

PROPOSED USE: S-1 (STORAGE), B (BUSINESS), RESIDENTIAL (R-3)

OWNER OR AUTHORIZED AGENT: SCHUMATA BROWN

OWNED BY: CITY/COUNTY PRIVATE STATE

CODE ENFORCEMENT JURISDICTION: CITY: COUNTY: JONES, NC STATE:

LEAD DESIGN PROFESSIONAL

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE	E-Mail
ARCHITECTURAL:	INTREPID ARCHITECTURE, PA.	ALBRECHT, N. MC LAWHORN, AIA	NC 11208	252.270.5330	ALBIM@INTREPIDARCHITECTURE.COM
CIVIL:	ARK CONSULTING GROUP, PLLC	SCOTT, T. ANDERSON, PE	NC 28425	252.558.0888	SCOTT@ARKCONSULTINGGROUP.COM
ELECTRICAL:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
FIRE ALARM:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
PLUMBING:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
MECHANICAL:	ENTECH ENGINEERING	DERRICK HAM, PE	NC 31466	919.778.9064	DHAM@ENTECH-PME.COM
SPRINKLER/STANDPIPE:	PERFORMANCE BASED FIRE PROTECTION ENGINEERING, PLLC	DAVID STACY, PE	NC 046319	614-441-2775	DSTACY@PBFPE.COM
STRUCTURAL:	RPA ENGINEERING	MARK ROY, PE	NC 17348	252.321.6027	MARK.ROY@RPAENGINEERING.COM
RETAINING WALLS >5' HIGH:	N/A				
OTHER:	N/A				

*OTHER should include firms and individuals such as truss, precast, pre-engineering, interior designers, etc.)

2018 NC BUILDING CODE:

☒ NEW BUILDING

☐ ADDITION

☐ RENOVATION

☐ 1ST TIME INTERIOR COMPLETION

☐ SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

☐ PHASED CONSTRUCTION - SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS

2018 NC EXISTING BUILDING CODE: EXISTING:

☐ PREScriptive

☐ REPAIR

☐ CHAPTER 14

☐ LEVEL I

☐ LEVEL II

☐ LEVEL III

☐ HISTORIC PROPERTY

☐ CHANGE OF USE

CONSTRUCTED (date)

N/A

CURRENT OCCUPANCY(S) (Ch. 3)

N/A

RENOVATED (date)

N/A

PROPOSED OCCUPANCY(S) (Ch. 3)

S-1 (STORAGE), B (BUSINESS), RESIDENTIAL (R-3)

RISK FACTOR (Table 1604.5):

Current:

☐ I

☐ II

☐ III

☐ IV

Proposed:

☐ I

☐ II

☐ III

☒ IV

BASIC BUILDING DATA:

CONSTRUCTION TYPE: (Check all that apply)

☐ I-A

☐ I-B

☐ I-A

☐ I-B

☐ II-A

☐ II-B

☐ IV

☐ V-A

☒ V-B

SPRINKLERS:

☐ NO

☐ PARTIAL

☒ YES

CLASS:

☐ NFPA 13

☐ NFPA 13R

☐ NFPA 13D

STANDPIPES:

☒ NO

☐ YES

CLASS:

☐ I

☐ II

☐ WET

☐ DRY

☐ MANUAL

FIRE DISTRICT:

☒ NO

☐ YES

FLOOD HAZARD AREA:

☒ NO

☐ YES

SPECIAL INSPECTIONS REQ'D:

☐ NO

☒ YES

CONTACT THE LOCAL INSPECTION JURISDICTION FOR ADDITIONAL PROCEDURES AND REQUIREMENTS

GROSS BUILDING AREA TABLE:

FLOOR	EXISTING (SQ. FT.)	NEW AREA (SQ. FT.)	SUB TOTAL
2ND FLOOR:	0	3,520	3520
1ST FLOOR:	0	9732	9436
TOTAL:	0	13,232	13,232

ALLOWABLE AREA

PRIMARY OCCUPANCY: (SELECT ONE)

ASSEMBLY

☐ A-1

☐ A-2

☐ A-3

☐ A-4

☐ A-5

BUSINESS

☒ B-1 Moderate

☐ B-2 Low

EDUCATIONAL

☐ H-1 Detonate

☐ H-2 Detonate

☐ H-3 Combust

☐ H-4 Health

☐ H-5 HPM

HAZARDOUS

☐ H-1 CONDITION

☐ H-2 CONDITION

☐ H-3 CONDITION

☐ H-4

INSTITUTIONAL

☐ R-1

☐ R-2

☒ R-3

☐ R-4

MERCANTILE

☒ S-1 Moderate

☐ S-2 Low

☐ High-piled

RESIDENTIAL

☐ Parking Garage

☐ Open

☐ Enclosed

☐ Repair Garage

STORAGE

☐ UTILITY & MISC.

☐ TRUCK BAYS

ACCESSORY OCCUPANCY CLASSIFICATION(S):

NONE

INCIDENTAL USES (Table 509):

NONE

SPECIAL USES (Chapter 4 - List Code Sections):

406 (MOTOR VEHICLE-RELATED OCCUPANCIES), 420 (GROUPS INCLUDING R-3)

SPECIAL PROVISIONS: (Chapter 5 - List Code Sections):

NONE

MIXED OCCUPANCY:

☒ YES

☐ NO

SEPARATION:

1-HR

EXCEPTION:

N/A

☐ NON-SEPARATED USE (508.3) - 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.

☐ SEPARATED USE (508.4) - 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

=

< 1.00

1ST FLOOR

S-1

5527

27000

+

B

3732

27000

+

R-3

253

UL

=

(S-1)0.2047 + (B) 0.1382 + (R-3)0 = 0.3429 < 1.00

2ND FLOOR

B

646

27000

+

R-3

2659

UL

=

(B) 0.0239 + (R-3)0 = 0.0239 < 1.00

STORY NUMBER	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 504.2 AREA	(C) AREA FOR FRONTAGE INCREASE*	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
1ST FLOOR	STORAGE (S-1)	5527	27000		70000
	BUSINESS (B)	3732	27000		92000
	RESIDENTIAL (R-3)	253	UL		
2ND FLOOR	BUSINESS (B)	646	27000		
	RESIDENTIAL (R-3)	2659	UL		

* FRONTAGE AREA INCREASE FROM SECTION 504.3 ARE COMPUTED THIS:

A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = (P)

B. TOTAL BUILDING PERIMETER = (P)

C. RATIO (P/P)

D. MINIMUM WIDTH OF PUBLIC WAY = (F/P)

E. PERCENT OF FRONTAGE INCREASE = 1 = 100 (P/P-0.25) X W/30 = (P)

* UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507.

* MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORES IN THE BUILDING X D (504.2).

* MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH 406.5.4.

* FRONTAGE INCREASE IS BASED ON THE UNSPRINKLERED AREA VALUE IN TABLE 504.2.

* MAX AREA FOR MECHANICAL PLATFORM IS 2/3 OF FLOOR BELOW PER SECTION 505.5.1

** MAX AREA FOR MEZZANINE IS 1/3 OF FLOOR BELOW PER SECTION 505.2.1

ALLOWABLE HEIGHT:

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE*
BUILDING HEIGHT IN FEET (Table 504.3)**	60'-0"	28'-9"	NCBC 2018 TABLE 504.3
BUILDING HEIGHT IN STORIES (Table 504.4)*	2	2	NCBC 2018 TABLE 504.4

* PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4

** THE MAXIMUM HEIGHT OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.3.1.

* THE MAXIMUM HEIGHT OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.5.5.

FIRE PROTECTION REQUIREMENTS:

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # & SHEET	Notes:	
		REQ'D	PROVIDED (W/ REDUCTION)		DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION
STRUCTURAL FRAME, INCLUDING COLUMNS, CORNERS, TRUSSES		0	0			
BEARING WALLS						
NON-BEARING WALLS & PARTITIONS						
EXTERIOR WALLS						
NORTH		0	0			
EAST		0	0			
WEST		0	0			
SOUTH		0	0			
INTERIOR		0	0			
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS & JOISTS		0	0			
FLOOR CEILING ASSEMBLY (OCC. SEPARATION)	1-HR	1-HR		L209	SYSTEM 5, 7, 8, 10, 11, OR 12 (TOTAL FLOOR TOPPING NOT MORE THAN 1")	
COLLARING SUPPORTING FLOORS	0	0				
ROOF CONSTRUCTION, INCLUDING SUPPORTING BEAMS AND JOISTS	0	0				
ROOF CEILING ASSEMBLY	0	0				
COLLARING SUPPORTING ROOFS	0	0				
SHAFT ENCLOSURES - EXIT	1-HR	1-HR		U419		
SHAFT ENCLOSURES - OTHER	1-HR	1-HR		U419		
CORRIDOR SEPARATION (EGRESS SERVING R-3 ONLY)	.5-HR	.5-HR		U419		
OCCUPANCY/FIRE BARRIER SEPARATION	1-HR	1-HR		U901		
PARTY/FIRE WALL SEPARATION	N/A					
SMOKE BARRIER SEPARATION	N/A					
SMOKE PARTITION	N/A					
RADIO AMPLIFICATION SYSTEM	N/A					
TENANT/DWELLING UNIT/SLEEPING UNIT SEPARATION (R-3 ONLY)	.5-HR	.5-HR		U419		
INCIDENTAL USE SEPARATION	N/A					

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS:

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.4)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30'-0"	UP, S	NO LIMIT	NO LIMIT

LIFE SAFETY SYSTEM REQUIREMENTS:

EMERGENCY LIGHTING:

☐ NO

☒ YES

EXIT SIGNS:

☐ NO

☒ YES

FIRE ALARM:

☐ NO

☒ YES

SMOKE DETECTION SYSTEMS:

☐ NO

☒ YES

PANIC HARDWARE:

☐ NO

☒ YES

CARBON MONOXIDE DETECTION:

☐ NO

☒ YES

LIFE SAFETY PLAN SHEET#:

G2.01 & G2.02

☒ Fire and/or smoke rated wall locations (Chapter 7)

☒ Assumed and real property line locations (If not on the site plan)

☐ Exterior wall opening area with respect to distance to assumed property lines N/A (705.4)

☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

☐ Occupant loads for each area

☐ 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 N/A (1010.1.9.7)

☐ Location of doors with electromagnetic egress locks (1010.1.9.9) N/A

☐ Location of doors equipped with hold-open devices N/A

☐ Location of emergency escape windows (1030) N/A

☐ The square footage of each fire area (202)

☐ The square footage of each smoke compartment for Occupancy Classification 1-2 (407.5)

☐ Note any code exceptions or table notes that may have been utilized regarding the items above N/A

☒ Actual occupant load for each exit door

ACCESSIBLE DWELLING UNITS (SECTION 1107):

N/A

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL # ACCESSIBLE UNITS PROVIDED
							#

ACCESSIBLE PARKING (Section 1106):

LOT OR PARKING AREA	TOTAL NUMBER OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # OF ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	2	2	0		2
TOTAL:	2	2	0		2

PLUMBING FIXTURE REQUIREMENTS (SECTION 2902.1):

		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	SERVICE SINKS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX			
USE	CALC. FACTOR	1/25	1/25			1/40	1/40			1/100	
B	REQUIRED	0.9	0.9			0.56	0.56			0.45	1
USE	CALC. FACTOR	1/10	1/10			1/10	1/10		1/8	1/100	
R-3	REQUIRED	0.75	0.75			0.75	0.75		2	0.08	1
USE	CALC. FACTOR	1/100	1/100			1/100	1/100			1/1000	
S-1	REQUIRED	0.06	0.06			0.06	0.06			0.006	1
	TOTAL REQUIRED	2	2			2	2		2	1	3
	TOTAL PROVIDED	2	2	1	2	2	2	2	5	2	3

SPECIAL APPROVALS:

SPECIAL APPROVAL: (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPL, DHS, ICC, ETC.; DESCRIBE BELOW)

NONE

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. EACH DESIGNER SHALL FURNISH THE REQUIRED PORTIONS OF THE PROJECT INFORMATION FOR THE PLAN DATA SHEET. IF PERFORMANCE METHOD, STATE THE ANNUAL ENERGY COST FOR THE STANDARD REFERENCE DESIGN VS ANNUAL ENERGY COST FOR THE PROPOSED DESIGN.

EXISTING BUILDING ENVELOPE COMPLIES WITH CODE:

☐ NO

☐ YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

☐ N/A

EXEMPT BUILDING:

☒ NO

☐ YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)

CLIMATE ZONE:

☒ 3A

☐ 4A

☐ 5A

METHOD OF COMPLIANCE:

ENERGY CODE

☐ PERFORMANCE

☐ PRESCRIPTIVE

ASHRAE 90.1

☒ PERFORMANCE

☐ PRESCRIPTIVE

IF "OTHER" SPECIFY SOURCE HERE

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY:

R-VALUE OF INSULATION:

SKYLIGHT IN EACH ASSEMBLY

WALLS BELOW GRADE (EACH ASSEMBLY)

NOT APPLICABLE

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY)

NOT APPLICABLE

FLOORS SLAB

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY:

R-VALUE OF INSULATION:

SKYLIGHT IN EACH ASSEMBLY

WALLS ABOVE GRADE (EACH ASSEMBLY)

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY:

R-VALUE OF INSULATION:

OPENING (windows or doors with glazing)

u-value of assembly:

Solar heat gain coefficient:

projection factor:

Door R-Values:

DESCRIPTION OF ASSEMBLY:

U-VALUE OF TOTAL ASSEMBLY:

R-VALUE OF INSULATION:

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

IMPORTANCE FACTORS:

SNOW (Is)

SEISMIC (Ise)

LIVE LOADS:

ROOF

MEZZANINE

FLOOR

GROUND SNOW LOAD:

psf

WIND LOAD:

ULTIMATE WIND SPEED

EXPOSURE CATEGORY

mph (ASCE-7)

SEISMIC DESIGN CATEGORY:

☐ A

☐ B

☐ C

☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

RISK CATEGORY (TABLE 1604.5)

☐ I

☐ II

☐ III

☐ IV

SPECTRAL RESPONSE ACCELERATION:

Sds=

%g

Sd1=

%g

SITE CLASSIFICATION: (ASCE 7)

☐ A

☐ B

☐ C

☐ D

Data Source:

☐ FIELD TEST

☐ PRESUMPTIVE

☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM

☐ BEARING WALL

☐ BUILDING WITH INTERMEDIATE R/C OR SPECIAL STEEL

☐ INVERTED PENDULUM

☐ EQUIVALENT LATERAL FORCE

☐ DYNAMIC

ANALYSIS PROCEDURE:

ARCHITECTURAL, MECHANICAL, CIVIL COMPONENTS ANCHORED?

☐ YES

☐ NO

LATERAL DESIGN CONTROL:

EARTHQUAKE

WIND

SOIL BEARING CAPACITIES:

FIELD TEST (PROVIDE COPY OF TEST REPORT)

psf

PRESUMPTIVE BEARING CAPACITY

psf

PILE SIZE, TYPE, AND CAPACITY

psf

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE

WINTER DRY BULB:

SUMMER DRY BULB:

RELATIVE HUMIDITY:

HEATING CONDITIONING SYSTEM

HEATING

description of unit

heating efficiency

cooling efficiency

size category of unit

Boiler

Size category, if oversized, state reason:

Chiller

Size category, if oversized, state reason:

BUILDING HEAT LOAD:

BUILDING COOLING LOAD:

LIST EQUIPMENT EFFICIENCIES

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

METHOD OF COMPLIANCE:

ENERGY CODE

☐ PERFORMANCE

☐ PRESCRIPTIVE

ASHRAE 90.1

☐ PERFORMANCE

☐ PRESCRIPTIVE

LIGHTING SCHEDULE (EACH FIXTURE TYPE)

LAMP TYPE REQUIRED IN FIXTURE

NUMBER OF LAMPS IN FIXTURE

BALLAST TYPE USED IN THE FIXTURE

NUMBER OF BALLASTS IN FIXTURE

TOTAL WATTAGE PER FIXTURE

TOTAL INTERIOR WATTAGE SPECIFIED VS ALLOWED (WHICH IS GREATER BY SPACE)

TOTAL EXTERIOR WATTAGE SPECIFIED VS ALLOWED

ADDITIONAL PRESCRIPTIVE COMPLIANCE (When using the 2018 NCECC; not required for:

☐ C406.2 More Efficient Mech-

☐ C406.3 Reduced Lighting

☐ C406.4 Enhanced Digital Lighting Controls

☐ C406.5 On-Site Supply of Renewable Energy

☐ C406.6 Dedicated Outdoor Air System

☐ C406.7 Reduced Energy Use in Service Water Heating

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MAYSVILLE FIRE STATION

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MAYSVILLE, NC 28555

53628

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REVISIONS:

#

DESC.

DATE

DRAWN BY: DJH

PROJECT #: 24008

ISSUE DATE: 04/30/2025

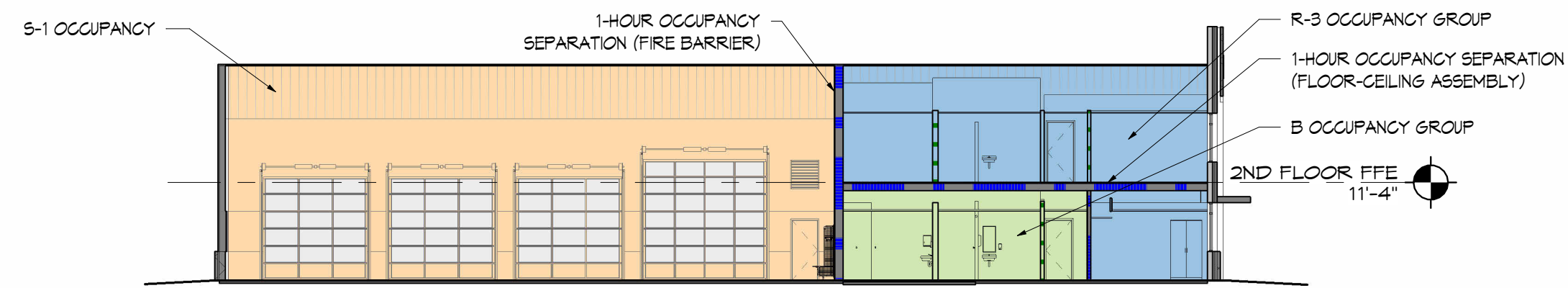
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CONSTRUCTION DOCUMENTS

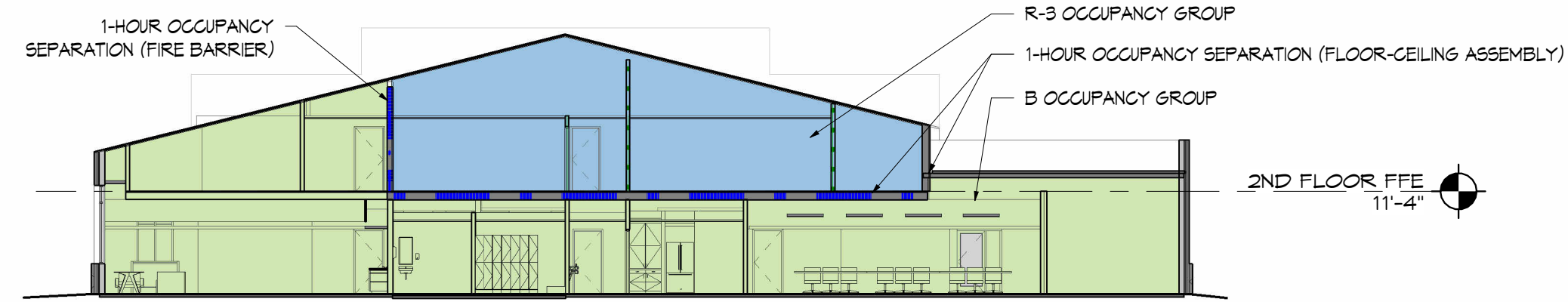
SHEET NAME & NUMBER

BUILDING CODE SUMMARY/APPENDIX B

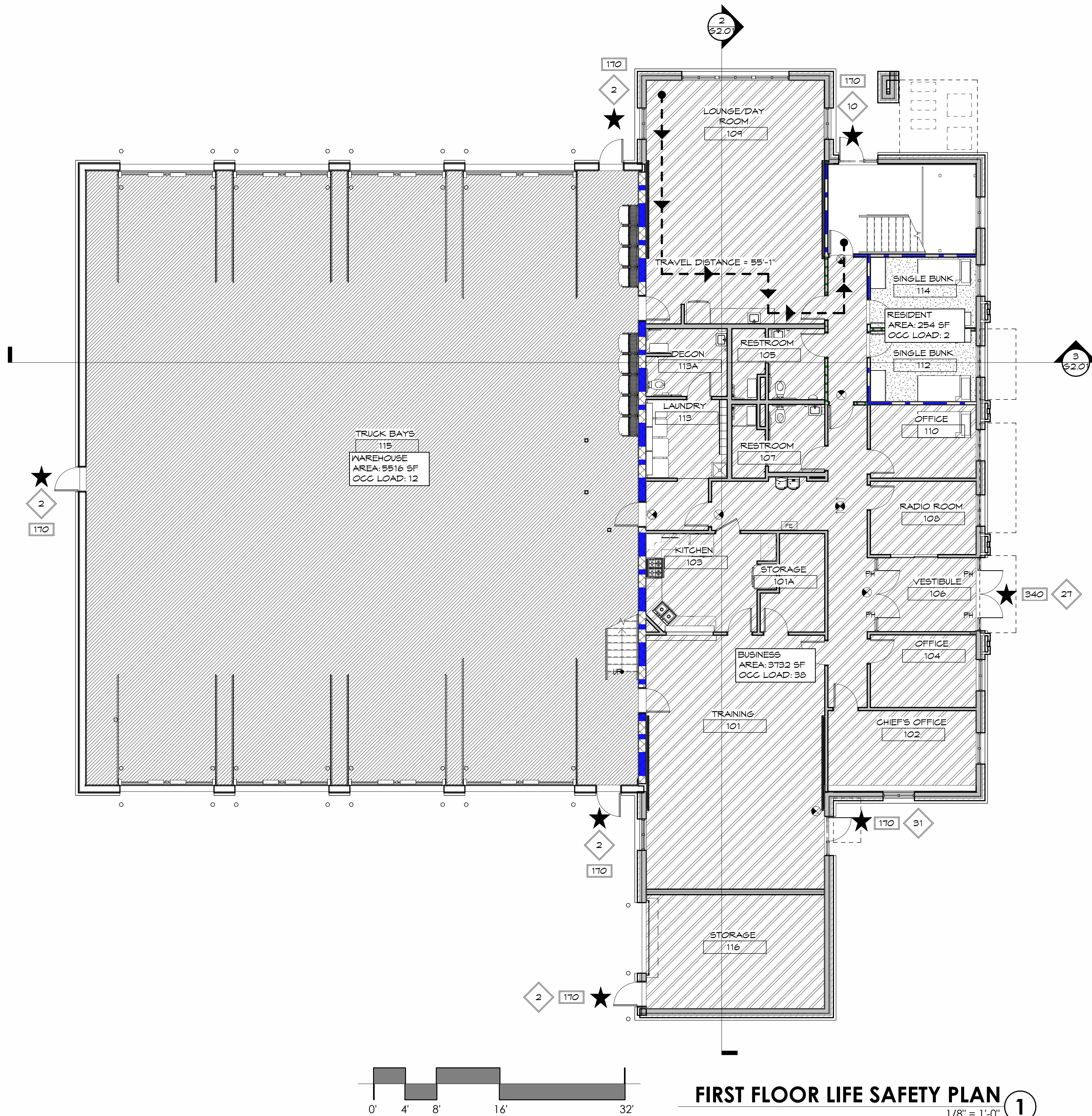
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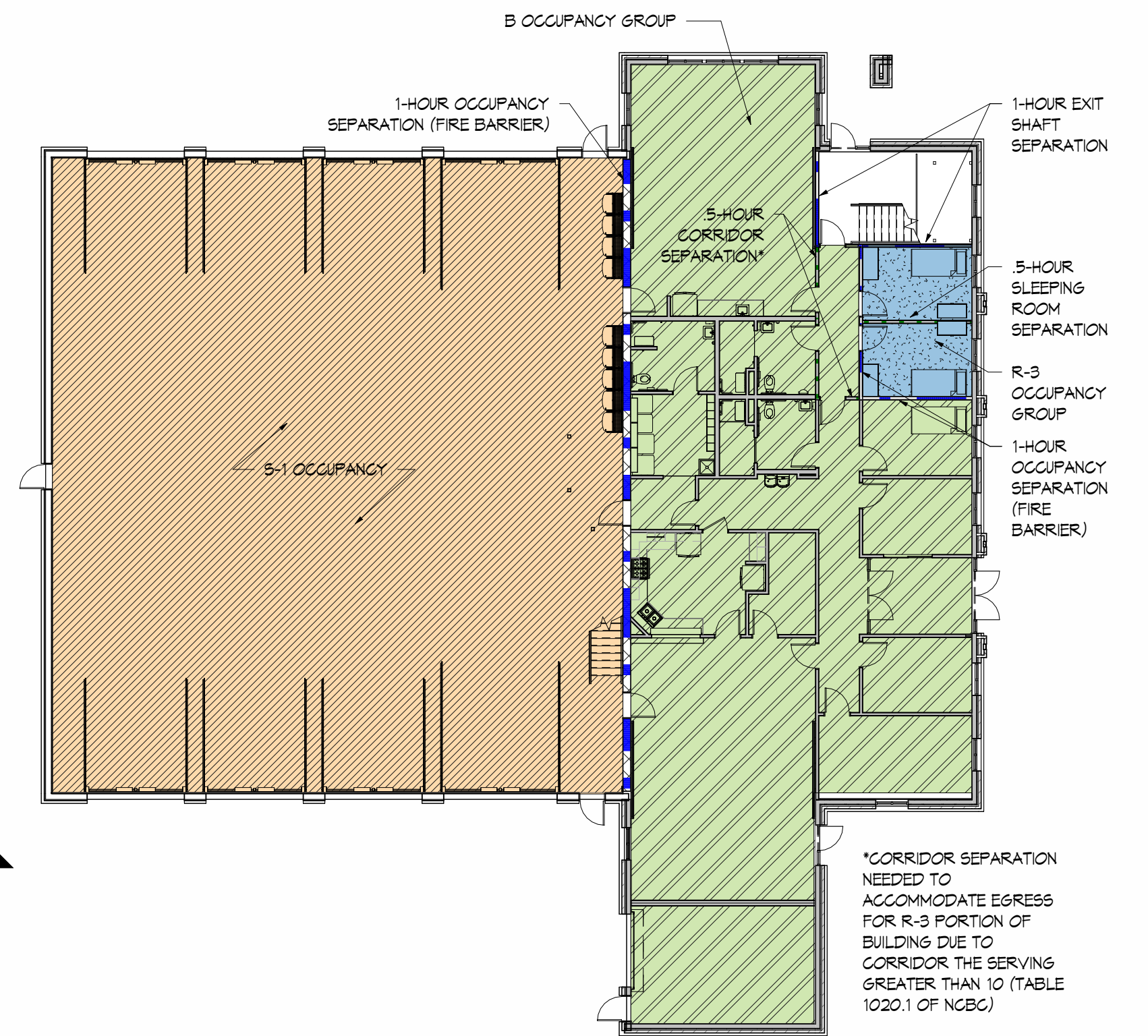
OCCUPANCY SEPARATION SECTION 3
1/16" = 1'-0"



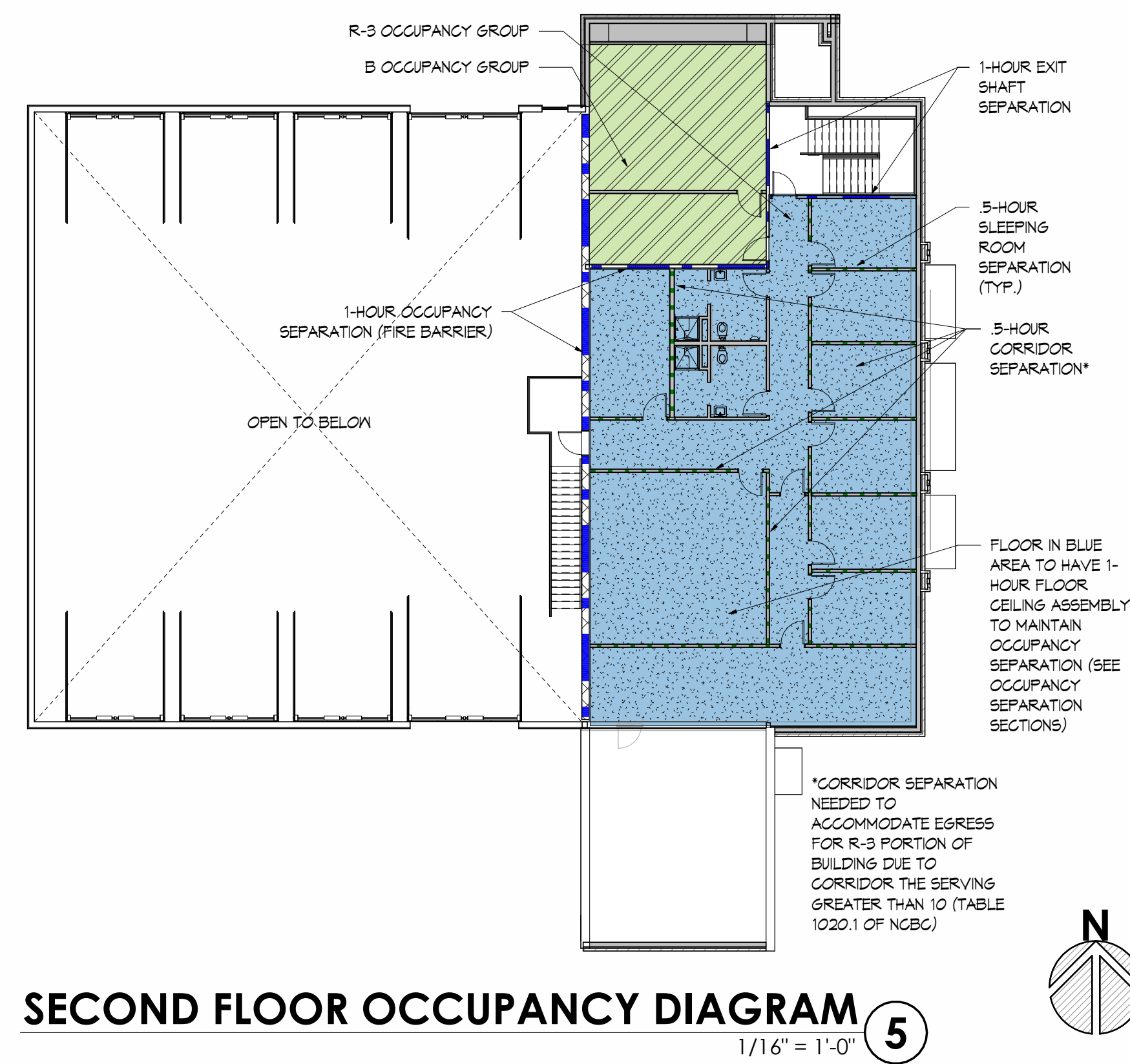
OCCUPANCY SEPARATION SECTION 2
1/16" = 1'-0"



FIRST FLOOR LIFE SAFETY PLAN 1
1/8" = 1'-0"



FIRST FLOOR OCCUPANCY DIAGRAM 4
1/16" = 1'-0"



SECOND FLOOR OCCUPANCY DIAGRAM 5
1/16" = 1'-0"

LIFE SAFETY PLAN SYMBOLS

- COMMON PATH OF TRAVEL DISTANCE = 99'-0"
- DIAGONAL DISTANCE BETWEEN EXITS = 28' - 4"
- MAXIMUM DIAGONAL DISTANCE = 28' - 4"
- TRAVEL DISTANCE = 99'-0"
- DEAD END = 11'-0"

- OCCUPANCY TYPE: BUSINESS
- OCCUPANCY AREA: 150 SF
- OCCUPANCY COUNT (BASED ON TABLE 1004.1.1): 2

- BUILDING EXIT
- MAXIMUM EGRESS CAPACITY
- ACTUAL EGRESS CAPACITY
- EXIT SIGN
- PANIC HARDWARE
- MAXIMUM EGRESS CAPACITY @ SUITE
- ACTUAL EGRESS CAPACITY @ SUITE
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER

RATED INTERIOR PARTITION LEGEND

- 1-HOUR RATED FIRE BARRIER
- 5-HR RATED PARTITION
- PARTITION

OCCUPANCY SUMMARY

AREA PER OCCUPANT (TABLE 1004.1)	CALC OCCUPANT LOAD
FIRST FLOOR:	
BUSINESS (1/100)	38
RESIDENTIAL (BUNKS) (1/200)	2
WAREHOUSE S-1 (TRUCK BAYS) (1/500)	12
SECOND FLOOR:	
BUSINESS (1/10)	7
RESIDENTIAL (BUNKS) (1/200)	13
TOTAL OCCUPANCY	72



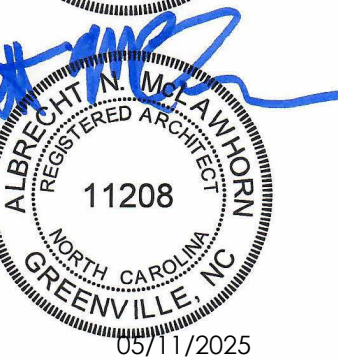
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SHEET NAME & NUMBER

FIRST FLOOR LIFE SAFETY PLAN

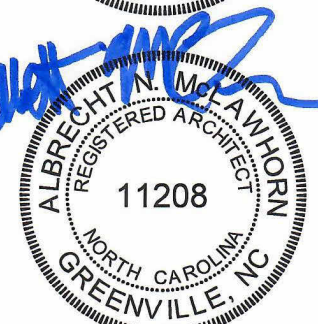
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ISSUE DATE: 04/30/2025

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CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

MEZZANINE LIFE SAFETY PLAN

G2.02

LIFE SAFETY PLAN SYMBOLS

COMMON PATH OF TRAVEL DISTANCE = 99'-0"

DIAGONAL DISTANCE BETWEEN EXITS = 28' - 4"

MAXIMUM DIAGONAL DISTANCE = 28' - 4"

TRAVEL DISTANCE = 99'-0"

DEAD END = 11'-0"

OCCUPANCY TYPE
OCCUPANCY AREA
OCCUPANCY COUNT (BASED
ON TABLE 1004.1.1)

BUSINESS
AREA: 150 SF
OCC LOAD: 2

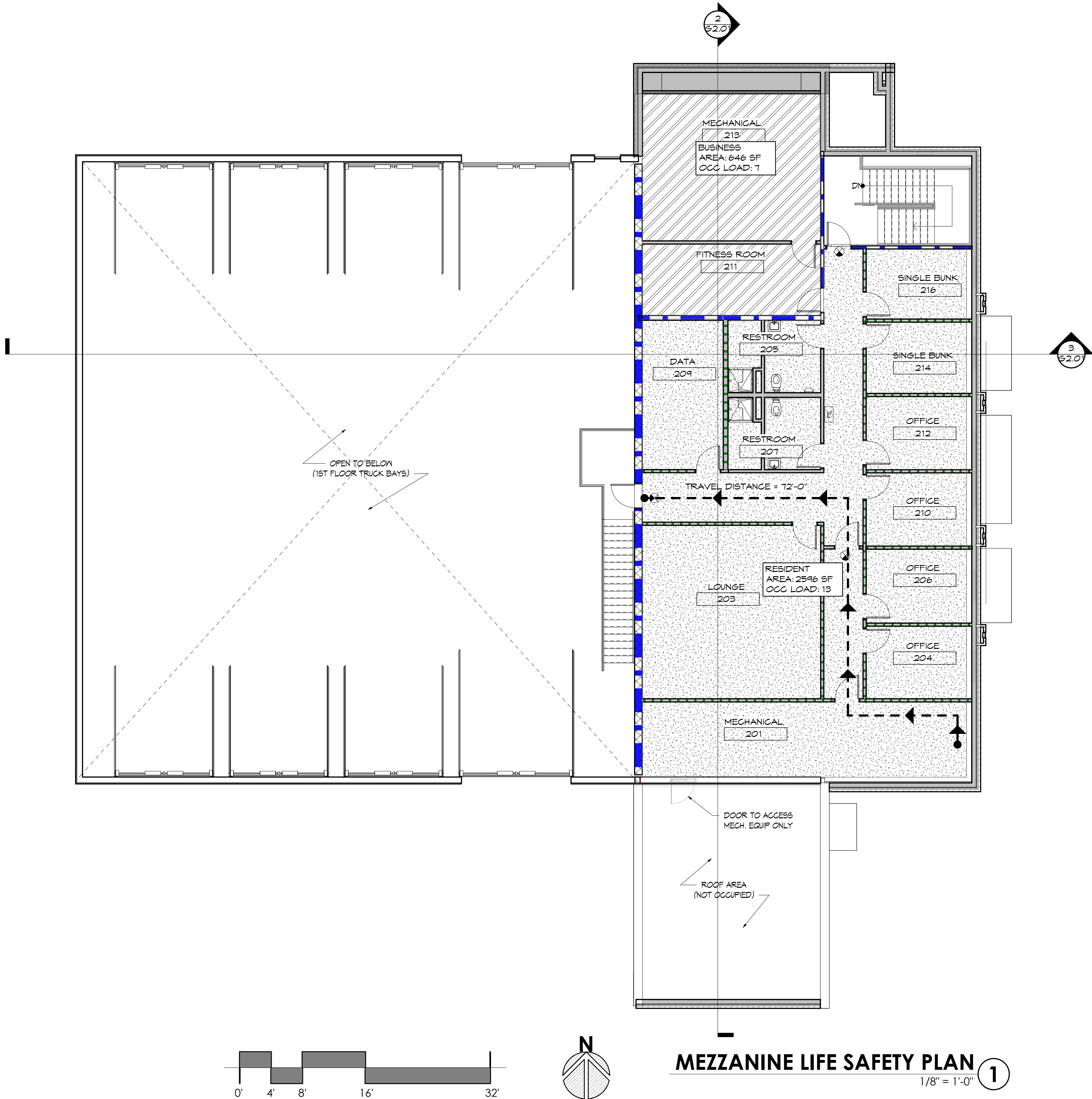
★ BUILDING EXIT
○ MAXIMUM EGRESS
CAPACITY
◇ ACTUAL EGRESS
CAPACITY
⊗ EXIT SIGN
★ PANIC HARDWARE
340 MAXIMUM EGRESS
CAPACITY @ SUITE
○ ACTUAL EGRESS
CAPACITY @ SUITE
FEC FIRE EXTINGUISHER
CABINET
FE FIRE EXTINGUISHER

RATED INTERIOR PARTITION LEGEND

1-HOUR RATED FIRE BARRIER
.5 - HR. RATED PARTITION
PARTITION

OCCUPANCY SUMMARY

AREA PER OCCUPANT (TABLE 1004.1)	CALC OCCUPANT LOAD
FIRST FLOOR:	
BUSINESS (1/100)	36
RESIDENTIAL (BUNKS) (1/200)	2
WAREHOUSE S-1 (TRUCK BAYS) (1/500)	12
SECOND FLOOR:	
BUSINESS (1/10)	7
RESIDENTIAL (BUNKS) (1/200)	13
TOTAL OCCUPANCY	72



MEZZANINE LIFE SAFETY PLAN

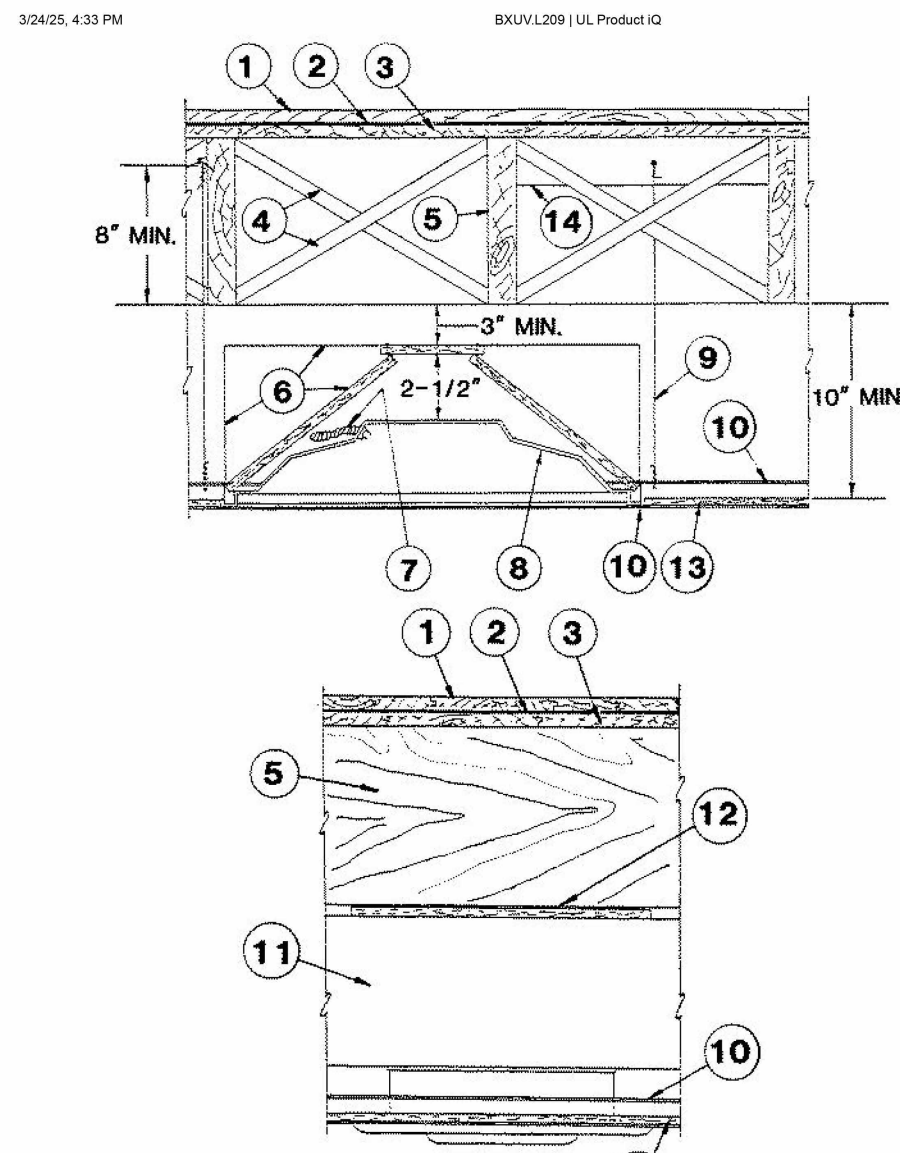
1/8" = 1'-0" 1

Design No. L209
December 18, 2024

**Unrestrained Assembly Rating — 1 Hr.
Finish Rating — 14 Min.**

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUVZ.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Finish Flooring** — 1 by 4 in. T&G laid perpendicular to joists, or 18/32 in. plywood wood structural panels, min grade "Underlayment". Face grain of plywood to be perpendicular to joists with joints staggered.

2/24/25, 4:33 PM BXUV.L209 | UL Product IQ

System No. 1

Floor Topping Mixture* — Foam concrete mixed 40:1 by volume with water and expanded at 100 psi through a foam nozzle. Mix at rate of 1.4 to 1.6 of performed foam to 94 lbs Type 1 Portland Cement and 300 lbs of sand with approximately 5.5 gal of water. Cast density of Floor Topping Mixture 100 (+ or -) 5 pcf. Min compressive strength 1000 psi. Thickness 1-1/2 in.

ELASTICELL CORP OF AMERICA — Type F-F.

Deleted.

System No. 2

System No. 3

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. (2 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 3/4 in. (19 mm).

HACKER INDUSTRIES INC — FRM-FILL SCM 125

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (6 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1 1/8 in. (32 mm).

HACKER INDUSTRIES INC — Types FRM-FILL SCM 250 and FRM-FILL SCM 250+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/4 in. (32 mm).

HACKER INDUSTRIES INC — Types FRM-FILL SCM 400 and FRM-FILL SCM 400+

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the subfloor. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).

HACKER INDUSTRIES INC — Types FRM-FILL SCM 750 and FRM-FILL SCM 750+

Metal Lath (Optional) — For use with 3/8 in. (10 mm), or greater, floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1 in. (25 mm) over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.8 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4000, Gyp-Span Radiant

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System No. 4

Floor Mat Materials* — (Optional) — Floor mat material nom 5/8 in. (2 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

HACKER INDUSTRIES INC — Type Hacker Sound Mat

Alternate Floor Mat Materials — (Optional) — Floor mat material nom 3/4 in. (6 mm) thick adhered to subfloor with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-3/4 in. (32 mm) of floor topping mixture.

HACKER INDUSTRIES INC — Type Hacker Sound Mat II

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-3/4 in. over the floor mat.

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.8 cu ft of sand.

HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill High Strength, Gyp-Span Radiant

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System No. 5

Finish Flooring-Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Type Maxxon Standard and Maxxon High Strength

Floor Mat Materials* (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Encapsulated Sound Mat

Floor Mat Reinforcement — (Optional) — Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath (Optional) — 1/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional, Not Shown) — 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.560 lbs/sq yd loose laid over the floor mat material.

System No. 6

Finish Flooring—Floor Topping Mixture* — Foam concrete mixed 40:1 by volume with water and expanded at 100 psi through nozzle. Mix a rate of 1.20 cu ft of performed foam to 94 lbs Type 1 Portland cement and 300 lbs of sand with 5-1/2 gal of water. Cast density of floor topping mixture 95 to 105 pcf. Min compressive strength of 1000 psi. Min thickness 1-1/2 in.

AREX INDUSTRIES

System No. 7

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 2100 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats.

System No. 8

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

ARCOSA SPECIALTY MATERIALS — AccuCrete® Types NeGen, Green, Prime and PreFlo, AccuRadient®, Accuwell® Types G40, G50 and G500

DEPENDABLE LLC — GSE, M1A, G5L, K2A, G5L, CSD or G5L RH

Floor Mat Materials* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

ARCOSA SPECIALTY MATERIALS — AccuQuat® Types D11, D-18, D25, D30R, EM125, EM125S, EM250, EM250S, EM375, EM375S, EM750, and EM750S.

System No. 9

1. **Subflooring** — Min 23/32 in. thick 18G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the runners with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed dark nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

2. **Gypsum Board*** — One layer of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists. Gypsum board secured with 1 in. long No. 6 Type W bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

2A. **Floor Mat Materials*** — (As an alternate to item 2) - Floor mat material loose laid over the subfloor.

MAXXON CORP — Type Encapsulated Sound Mat.

2/24/25, 4:33 PM BXUV.L209 | UL Product IQ

System No. 10

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLK, CSD

USG MEXICO S A DE CV — Types LRK, HSLR, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVULOCK® Brand Sound Reduction Board, LEVULOCK® Brand Floor Underlayment SRM-25

System No. 11

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, Swift®, and Treasure Advantage

Floor Mat Materials* — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Duo, R1, and R2

System No. 12

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCO) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats.

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

Freudenberg Performance Materials LP — Enduris® R by Celbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus.

Floor Mat Reinforcement — (Optional) — Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. **Building Paper** — Commercial rosin-sized, 0.010 in. thick.

3. **Subflooring** — 1 by 6 in. T&G, fastened diagonally to joists, or 15/32 in. plywood wood structural panels, min grade "C D". Face grain of plywood to be perpendicular to joists with joints staggered.

4. **Cross Bridging** — 1 by 3 in.

5. **Wood Joists** — 2 by 10 in., spaced 16 in. OC, firestopped.

2/24/25, 4:33 PM BXUV.L209 | UL Product IQ

3. **Gypsum Board*** — (For use when floor mat item 2) is used) Two layers of nom 5/8 in. thick, 4 ft wide gypsum board, installed with long dimension perpendicular to joists on top of the floor mat material. Gypsum board secured to each other with 1 in. long No. 6 Type C bugle head steel screws spaced 12 in. OC and located a min of 1-1/2 in. from side and end joints. The joints of the gypsum board are to be staggered a minimum of 12 inches between layers and from the joints of the subfloor.

GEORGIA-PACIFIC GYPSUM L L C — Type DS

System No. 10

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1800 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

UNITED STATES GYPSUM CO — Types LRK, HSLK, CSD

USG MEXICO S A DE CV — Types LRK, HSLR, CSD

Floor Mat Materials* — (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

UNITED STATES GYPSUM CO — Types SAM, LEVULOCK® Brand Sound Reduction Board, LEVULOCK® Brand Floor Underlayment SRM-25

System No. 11

Finish Flooring — Floor Topping Mixture* — Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

FORMULATED MATERIALS LLC — Types FR-25, FR-30, Swift®, and Treasure Advantage

Floor Mat Materials* — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 1 in.

FORMULATED MATERIALS LLC — Types M1, M2, M3, Duo, R1, and R2

System No. 12

Finish Flooring — Floor Topping Mixture* — Min 3/4 in. thickness of any Floor Topping Mixture bearing the UL Classification Marking as to Fire Resistance. See Floor- and Roof-Topping Mixtures (CCO) category for names of Classified Companies. Refer to the manufacturer's instructions accompanying the material and/or contact the manufacturer's technical support for specific mix design and minimum thickness recommended for use with eligible floor mats.

Floor Mat Materials* — (Optional, Not Shown) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

Freudenberg Performance Materials LP — Enduris® R by Celbond a member of the Low & Bonar group Types 125, 250, 250 Plus, 400, 400 Plus, 750, and 750 Plus.

Floor Mat Reinforcement — (Optional) — Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath — (Optional) — Expanded steel diamond mesh, 2.5 lb / sq yd loose laid over floor mat material.

Fiberglass Mesh Reinforcement — (Optional) — Coated non-woven glass fiber mesh grid loose laid over floor mat material.

2. **Building Paper** — Commercial rosin-sized, 0.010 in. thick.

3. **Subflooring** — 1 by 6 in. T&G, fastened diagonally to joists, or 15/32 in. plywood wood structural panels, min grade "C D". Face grain of plywood to be perpendicular to joists with joints staggered.

4. **Cross Bridging** — 1 by 3 in.

5. **Wood Joists** — 2 by 10 in., spaced 16 in. OC, firestopped.

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Finish Protection — Acoustical Material* — 1/2 in. thick, cut into pieces to form a s-sided enclosure, trapezoidal in cross-section, appears 1/2 in. longer and wider than the fixture with sufficient depth of profile at least 2-1/2 in. Clearance between the top of the fixture and the enclosure. The pieces are held together by 6d nails spaced 12 in. OC min. (2)-Surface Performances.

ARMSTRONG WORLD INDUSTRIES INC — Type F-10.

7. **Flexible Steel Conduit** — (Bearing the UL Listing Mark).

8. **Fixtures, Recessed Light** — (Bearing the UL Listing Mark). Recessed light fixture with steel housing, 2 by 4 ft size. Fixtures spaced so their area does not exceed 16 sq ft per 100 sq ft of ceiling area. Wired in conformance with the National Electrical Code. Fixtures and ballasts must be considered for their ambient temperature conditions before installation.

9. **Hanger Wire** — Galv steel 12 DNG min diam. Spaced not more than 48 in. OC along main runners, adjacent to intersections of main runners and cross tees. Additional hanger wires required at all four corners of light fixtures, at midspan of cross tees adjacent to light fixtures, air duct outlets and at main runner splice locations. Hanger wire supported from 8d common nails located 1-1/2 in. below subflooring.

10. **Steel Framing Members*** — Main runner tees nom 12 ft long, spaced 4 ft OC. Cross tees nom 4 ft long, installed perpendicular to main runners and spaced 2 ft OC.

ARMSTRONG WORLD INDUSTRIES INC — Types ARF, ARF-A.

CGC INC — Types DRL, DRLA, DRLZ, DRLZA, SDXL, SDXLA, ZDLA.

ROKUL USA INC, D/I/A ROCKTON — Types 250, 260, 1250, 1260, 1850, 1860.

ARMSTRONG WORLD INDUSTRIES INC — Types GL, FST-6000, 4000A, 4000, 4000A, MLTP-6000. Type GLP (consisting of main runners, 4 ft cross tees, and steel straps) for use with 24 by 48 by 5/8 or 3/4 in. thick Type P lay-in panels.

USG INTERIORS LLC — Types DRL, DRLA, DRLZ, DRLZA, SDXL, SDXLA, ZDLA.

10A. **Steel Framing Member*** — Main runners, nom. 10 or 12 ft long, spaced 4 ft OC. Cross tees, nom. 4 ft long, installed perpendicular to main runners, spaced 2 ft OC. Border panels supported at walls by min. 0.016 in. thick painted steel angle with 7/8 in. legs or min. 0.016 in. thick painted steel channel with a 1 by 1-9/16 by 1/2 in. profile.

CGC INC — Types DRL, DRLA, DRLZ, DRLZA, SDXL, SDXLA, ZDLA.

USG INTERIORS LLC — Types DRL, DRLA, DRLZ, DRLZA, SDXL, SDXLA, ZDLA.

10B. **Steel Framing Member*** — For use with metric size panels described under item 13. Main runners nom 3000 or 3600 mm long, spaced 1200 mm OC. Cross tees nom 1200 mm long, installed perpendicular to main runners and spaced 600 mm OC. For 600 by 1200 mm lay-in panels. Border panels supported at walls by min. 0.016 in. thick painted steel angle with 1/8 in. legs or min. 0.016 in. thick painted steel channel with a 1 by 1-9/16 by 1/2 in. profile.

CGC INC — Types DRL, DRLA, DRLZ, DRLZA, SDXL, SDXLA.

USG INTERIORS LLC — Types DRL, DRLA, DRLZ, DRLZA, SDXL, SDXLA.

11. **Air Duct** — Formed of 20 MSG galv steel, with duct openings not exceeding 113 sq in. per each 100 sq ft of ceiling area. Area of laid duct opening not to exceed 113 sq in. Max dimension of opening 12 in. Supported from hanger straps made of double thickness 24 MSG galv steel and spaced 42 in. OC.

12. **Air-Duct Protection Board** — Made of min 24 by 24 by 1/2 or 1 in. piece of Acoustical Material placed on top of duct over opening, extending the entire width of the duct and beyond the edges of the opening not less than 5 in.

ARMSTRONG WORLD INDUSTRIES INC — 1/2 in. min thickness.

2/24/25, 4:33 PM BXUV.L209 | UL Product IQ

Acoustical Material* — 24 by 48 lay-in panels. Border pieces supported by min 0.016 in. thick (26 MSG) painted steel angle with 1 in. legs or min 0.016 in. thick (26 MSG) painted steel channel, 1-5/8 in. deep with 1 in. bottom flange and 3/4 in. top flange. Acoustical material held securely on steel framing members by means of hold-down clips, 1/4 in. wide, formed of 24 MSG spring steel and spaced 2 ft OC along cross tees. (2)-Surface Performances.

ARMSTRONG WORLD INDUSTRIES INC — Type 102, 50 or 3/4 in. P-10.

Type P-10 15 mm thick 600x1200 mm. These metric size panels may only be used with metric size grid described under item 10A.

14. **Wood Hanger Block** — 2 by 4 in., installed between and perpendicular to wood joists. Located to support duct suspension straps and hanger wire 1-1/2 in. below subflooring at sides of light fixtures whenever duct straps and hanger wires are located between wood joists.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2024-12-18

2/24/25, 4:33 PM BXUV.L209 | UL Product IQ

CERTANTIED CORP — 1 in. min thickness

13. **Acoustical Material*** — 24 by 48 lay-in panels. Border pieces supported by min 0.016 in. thick (26 MSG) painted steel angle with 1 in. legs or min 0.016 in. thick (26 MSG) painted steel channel, 1-5/8 in. deep with 1 in. bottom flange and 3/4 in. top flange. Acoustical material held securely on steel framing members by means of hold-down clips, 1/4 in. wide, formed of 24 MSG spring steel and spaced 2 ft OC along cross tees. (2)-Surface Performances.

ARMSTRONG WORLD INDUSTRIES INC — Type 102, 50 or 3/4 in. P-10.

Type P-10 15 mm thick 600x1200 mm. These metric size panels may only be used with metric size grid described under item 10A.

14. **Wood Hanger Block** — 2 by 4 in., installed between and perpendicular to wood joists. Located to support duct suspension straps and hanger wire 1-1/2 in. below subflooring at sides of light fixtures whenever duct straps and hanger wires are located between wood joists.

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Last Updated on 2024-12-18

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ALBRECHT ARCHITECTS
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NORTH CAROLINA
GREENVILLE, NC
05/11/2025

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ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
UL DETAILS

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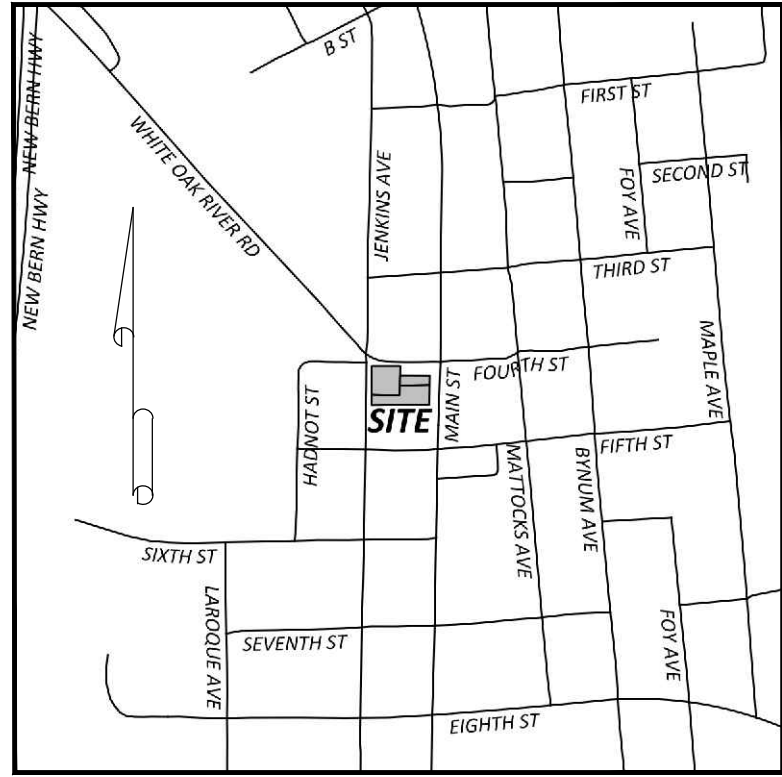
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MAYSVILLE, NC 28555



Vicinity Map
SCALE: 1" = 1000'

Legend

EXISTING	PROPOSED

Sheet Index

#	Title
C1.0	Site Plan / Cover
C2.0	Demolition & Erosion Control Plan
C3.0	Utility Plan
C4.0	Grading Plan
C5.0	Required Vegetation Plan
C6.0	Details
C6.1	Details
C6.2	Details
REF	Survey - ARK Consulting Group, PLLC

Survey Note:

BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON WAS PREPARED BY ARK CONSULTING GROUP, PLLC, AS SHOWN ON DRAWING ENTITLED BOUNDARY AND TOPOGRAPHICAL SURVEY FOR MAYSVILLE FIRE STATION, DATED JULY 9, 2024, ATTACHED TO THIS DRAWING SET FOR REFERENCE.

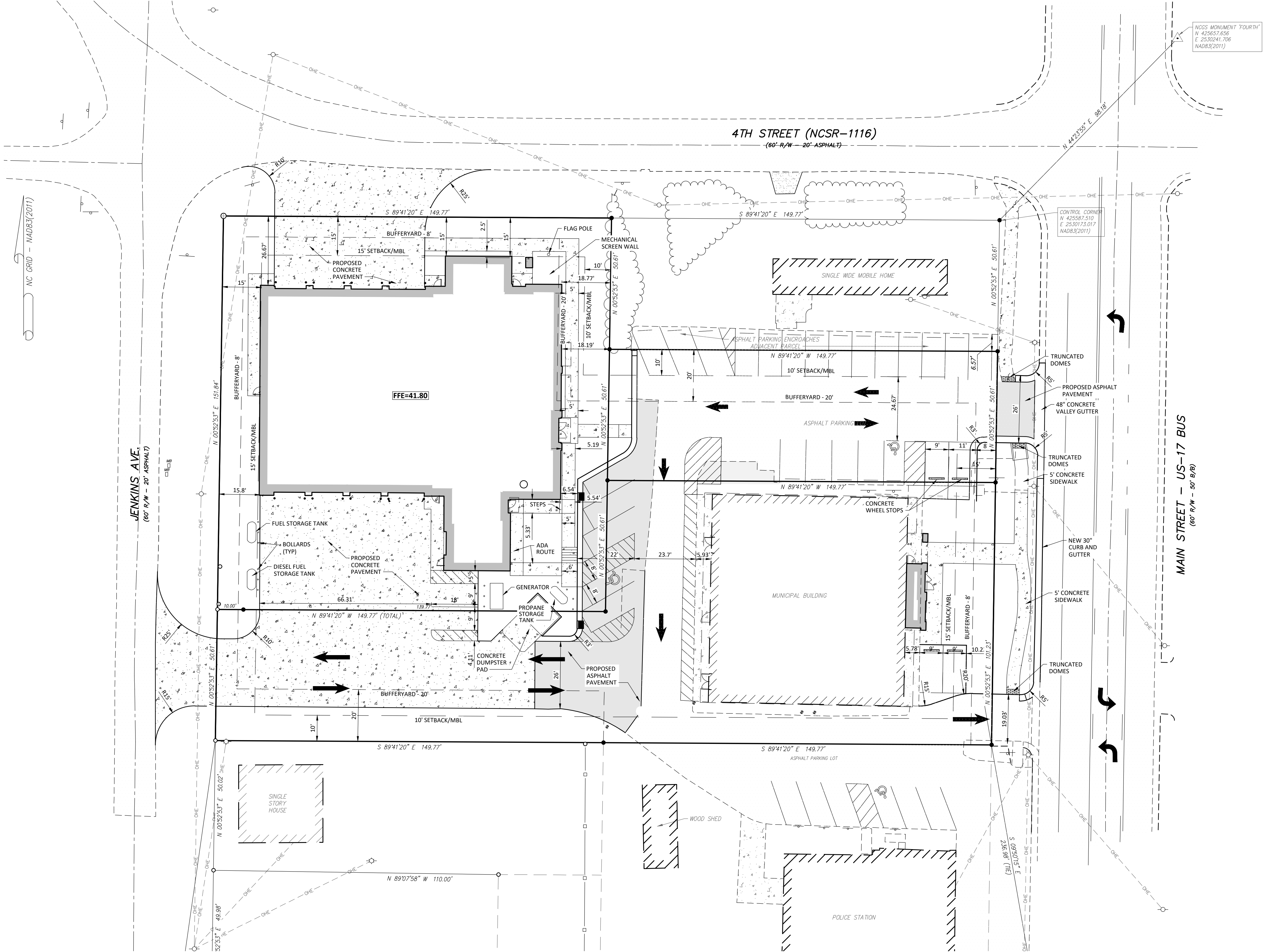
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**CONSTRUCTION
DOCUMENTS**
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SITE PLAN

C1.0

20' 0 10' 20'
SCALE 1 inch = 20 ft



General Notes:

1. NCDOT DRIVEWAY APPROVAL PERMIT IS REQUIRED.
2. CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC ONE-CALL) AT 811 TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
3. ALL REQUIRED IMPROVEMENTS SHALL CONFORM TO THE TOWN OF MAYSVILLE AND JONES COUNTY MANUAL OF STANDARD DESIGNS AND DETAILS (MSDD) AND UTILITIES PROVIDERS DESIGN STANDARDS FOR THE DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER SYSTEM EXTENSIONS.
4. THIS PROPERTY IS LOCATED IN A FLOOD ZONE X (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN), ZONE X SHADED (AREA OF 0.2% ANNUAL CHANCE FLOOD) AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP NUMBER 3720542200K, EFFECTIVE NOVEMBER 3, 2005.
5. ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND.
6. PAVEMENT SECTIONS ARE AS INDICATED ON PLAN SHEET.
7. PROVIDE ALL NECESSARY SIGNAGE FOR HANDICAP PARKING.
8. PARKING LOT SHALL BE STRIPED IN ACCORDANCE WITH PLAN.
9. REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
10. REFER TO M.E.P. PLANS FOR COORDINATION OF BUILDING
11. UTILITY SERVICES.
12. CONTRACTOR SHALL STOCKPILE TOPSOIL FOR USE IN LANDSCAPE AREAS.
13. STORMWATER MANAGEMENT FOR THIS SITE IS NOT REQUIRED.
14. THIS PROJECT DISTURBS MORE THAN 1 ACRE. EROSION CONTROL PLAN APPROVAL IS REQUIRED.
15. REFUSE COLLECTION SHALL BE PROVIDED BY PRIVATE SERVICE.
16. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
17. A REDUCED PRESSURE PRINCIPAL BACKFLOW DEVICE IS REQUIRED ON THE DOMESTIC WATER SERVICE.
18. SITE SHALL MEET ALL RELATED ACCESSIBILITY CODE REQUIREMENTS.
19. NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510 - EMERGENCY RESPONDER RADIO COVERAGE.

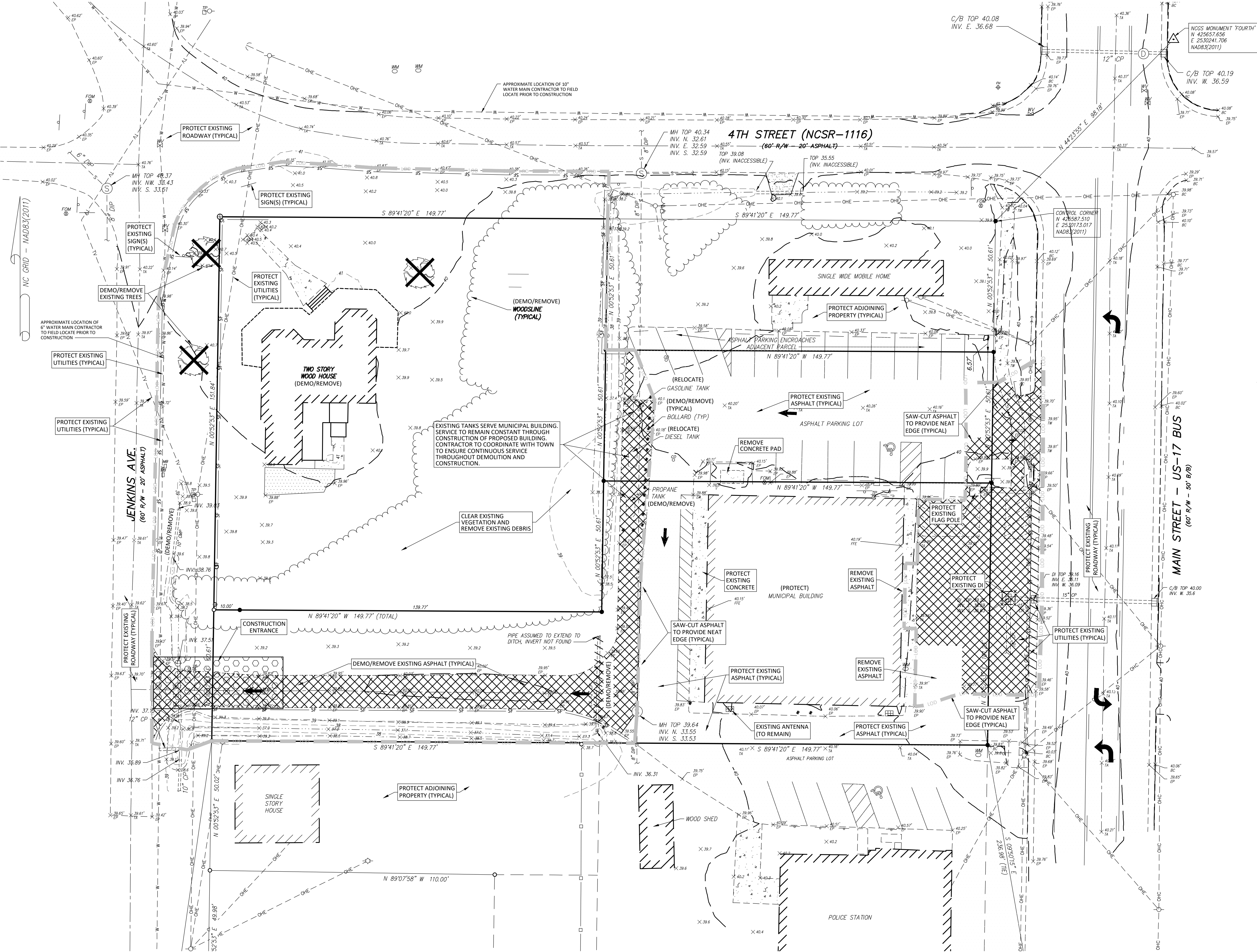
Parking Requirements:

PARKING REQUIRED:	OFFICE SPACE	
	OFFICE SPACE: 8,000 SF @ 1 SPACE / 300 SF	27 SPACES
	VEHICLES USED IN COURSE OF BUSINESS: 2	2 SPACES
	TOTAL REQUIRED PARKING:	29 SPACES
	REQUIRED HANDICAP PARKING:	2 SPACES

Site Data

TOTAL ACREAGE IN SITE:	1.22± AC
TOTAL ACREAGE IN PROJECT LIMITS:	1.48± AC
DISTURBED ACREAGE:	1.34± AC
CURRENT ZONING:	C-1
TAX PARCEL NUMBER:	542295953100, 543205042200, 543205059100
LAND USE:	FIRE STATION / GOVERNMENT
GROSS FLOOR AREA EXISTING:	6,054 SF
GROSS FLOOR AREA PROPOSED:	10,005 SF
GROSS FLOOR AREA TOTAL:	16,059 SF
BUILDING LOT COVERAGE:	70.96% EXIST., 93.66% PROPOSED
BUILDING HEIGHT:	TBD* (TBD STORY)
TOTAL NUMBER OF PARKING SPACES REQUIRED:	29 SPACES (INCL. 2 H/C)
TOTAL NUMBER OF PROPOSED PARKING SPACES:	30 SPACES (INCL. 2 H/C)
TOTAL SQ. FEET OF EXIST. IMPERVIOUS AREA:	30,911.83 SF
TOTAL SQ. FEET OF PROP. IMPERVIOUS AREA:	52,303.19SF
REFERENCES:	D.B. 191, PG. 204, D.B. 217, PG. 15 D.B. 287, PG. 650, D.B. 415, PG. 615 404 MAIN STREET, MAYSVILLE, NC 28555
ADDRESS:	





Demolition Notes:

1. CONTRACTOR SHALL CONTACT NORTH CAROLINA ONE-CALL CENTER (NC 811) BY DIALING 811 OR 1-800-632-4949 AT LEAST 72 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY OR DIGGING AND HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL AND STATE PERMITS REQUIRED FOR DEMOLITION WORK.
3. THE CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS THE OWNER AND/OR ENGINEER FOR ANY AND ALL INJURIES AND/OR DAMAGES TO PERSONNEL, EQUIPMENT AND/OR EXISTING FACILITIES IN THE DEMOLITION AND CONSTRUCTION DESCRIBED IN THE PLANS AND SPECIFICATIONS.
4. EXISTING CONDITIONS AS DEPICTED ON THESE PLANS ARE GENERAL AND ILLUSTRATIVE IN NATURE AND DO NOT INCLUDE MECHANICAL, ELECTRICAL AND MISCELLANEOUS STRUCTURES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE SITE AND BE FAMILIAR WITH EXISTING CONDITIONS PRIOR TO BIDDING ON THE DEMOLITION WORK FOR THIS PROJECT. IF CONDITIONS ENCOUNTERED DURING EXAMINATION ARE SIGNIFICANTLY DIFFERENT THAN THOSE SHOWN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
5. ALL DEMOLITION WASTE AND DEBRIS SHALL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF IN A STATE APPROVED WASTE SITE AND IN ACCORDANCE WITH ALL LOCAL AND STATE CODES AND PERMIT REQUIREMENTS.
6. THE BURNING OF CLEARED MATERIAL AND DEBRIS SHALL NOT BE ALLOWED UNLESS CONTRACTOR GETS WRITTEN AUTHORIZATION FROM THE LOCAL AUTHORITIES.
7. ASBESTOS OR HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIALS CONTRACTOR. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY IF HAZARDOUS MATERIALS ARE ENCOUNTERED.
8. CONTRACTOR SHALL PROTECT ALL CORNER PINS, MONUMENTS, PROPERTY CORNERS, AND BENCHMARKS DURING DEMOLITION ACTIVITIES. IF DISTURBED, CONTRACTOR SHALL HAVE DISTURBED ITEMS RESET BY A LICENSED SURVEYOR AT NO ADDITIONAL COST TO THE OWNER.
9. CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, FEDERAL, AND OSHA REGULATIONS WHEN OPERATING DEMOLITION EQUIPMENT AROUND UTILITIES.
10. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC CONTROL MEASURES IN ACCORDANCE WITH THE NCDOT STANDARDS, AND AS REQUIRED BY LOCAL AGENCIES WHEN WORKING IN AND/OR ALONG STREETS, ROADS, HIGHWAYS, ETC. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN APPROVAL AND COORDINATE WITH THE LOCAL AND/OR STATE AGENCIES REGARDING THE NEED, EXTENT, AND LIMITATIONS ASSOCIATED WITH INSTALLING AND MAINTAINING TRAFFIC CONTROL MEASURES.
11. CONTRACTOR SHALL PROTECT AT ALL TIMES ADJACENT STRUCTURES AND ITEMS FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
12. CONTRACTOR SHALL REMOVE EXISTING VEGETATION AND IMPROVEMENTS WITHIN LIMITS OF DISTURBANCE UNLESS NOTED OTHERWISE.
13. TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.

Legend

EXISTING	PROPOSED
	GEODETIC CONTROL MONUMENT
	EXISTING IRON PIPE
	EXISTING MAG NAIL
	EXISTING REPAIR
	IRON PIPE SET
	CATCH BASIN
	SIGN
	FIBER OPTIC MONUMENT
	TELEPHONE PEDESTAL
	ELECTRIC POWER POLE
	WATER METER
	SEWER VALVE
	WATER VALVE
	FIRE HYDRANT
	STORM PIPE
	BACK OF CURB
	EDGE OF PAVEMENT
	PROPERTY BOUNDARY
	ADJOINER (NOT SURVEYED)
	ADJOINER (SURVEYED)
	FENCE
	OVERHEAD ELECTRIC LINE
	OVERHEAD COMMUNICATION LINE
	CONTOUR LINE - MINOR
	CONTOUR LINE - MAJOR
	WATER MAIN/SERVICE
	SANITARY SEWER MAIN/SERVICE
	LIMIT OF DISTURBANCE
	DEMOLISH / REMOVE
	SPOT ELEVATION (HARD SURFACE)
	SPOT ELEVATION (GROUND)
	TOP OF BACK OF CURB
	TOP OF CONCRETE
	TOP OF ASPHALT
	FINISHED FLOOR ELEVATION
	INLET PROTECTION
	GRAVEL
	CONCRETE
	BUILDING

Construction Sequence:

CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH THE EROSION CONTROL OFFICER PRIOR TO INITIATING ANY LAND DISTURBING ACTIVITY.

1. INSTALL EROSION CONTROL MEASURES
2. STRIP AND STOCKPILE TOPSOIL
3. BUILDING PAD INSTALLATION
4. STORM DRAINAGE INSTALLATION
5. UTILITY INSTALLATION
6. INSTALLATION OF CONCRETE CURB & GUTTER
7. PLACEMENT OF STONE BASE
8. BUILDING CONSTRUCTION
9. UNDERGROUND ELECTRIC INSTALLATION
10. FINE GRADING OF PARKING LOTS
11. PLACEMENT OF CONCRETE / ASPHALT PAVEMENT
12. INSTALL PAVEMENT MARKINGS / SIGNAGE
13. LANDSCAPING, SEEDING & MULCHING

NOTE:

- MAINTAIN EROSION CONTROL MEASURES UNTIL VEGETATION IS ESTABLISHED (≥75% COVERAGE)
- REMOVE ALL EROSION CONTROL MEASURES AND VEGETATE / STABILIZE LOCATION OF PREVIOUS EROSION CONTROL MEASURES.

SEVERAL ITEMS LISTED ABOVE MAY BE CONSTRUCTED SIMULTANEOUSLY. AN ANTICIPATED TIME SCHEDULE OF 12 MONTHS IS EXPECTED FOR THIS PROJECT.

Erosion Control Provisions

1. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING THE ENGINEER OF THE DATE THAT THE LAND DISTURBING ACTIVITY WILL BEGIN.
2. SEED OR OTHERWISE PROVIDE GROUND COVER DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION FOR ALL EXPOSED SLOPES WITHIN 7 DAYS OF COMPLETION OF ANY PHASE OF GRADING ON PERIMETER AREAS AND SLOPES STEEPER THAN 3:1. ALL OTHER AREAS SHALL BE STABILIZED WITHIN 14 DAYS.
3. CONTRACTOR SHALL INSPECT AND MAINTAIN AS NEEDED ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5,000.00 PER DAY OF VIOLATION.
4. THE ENGINEER RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES SHOULD THE PLAN OR ITS IMPLEMENTATION PROVE TO BE INADEQUATE.
5. EROSION CONTROL MEASURES SHALL BE MAINTAINED AND INSPECTED AS PER THE DETAIL SHEETS SHOWN.
6. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON YOUR COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATION AND RULES. IN ADDITION LOCAL CITY AND COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. APPROVAL BY THE TOWN DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.
7. LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL APPROPRIATE EROSION CONTROL MAY NOT PROCEED UNTIL EROSION CONTROL MEASURES ARE INSPECTED AND APPROVED BY THE ENGINEER.
8. INSTALL ROCK INLET SEDIMENT TRAPS AROUND ALL CATCH BASINS, DROP INLETS, AND YARD INLETS.
9. PROVIDE 20' X 50' X 6" STONE CONSTRUCTION ENTRANCES AS SHOWN ON PLAN.



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4/30/25

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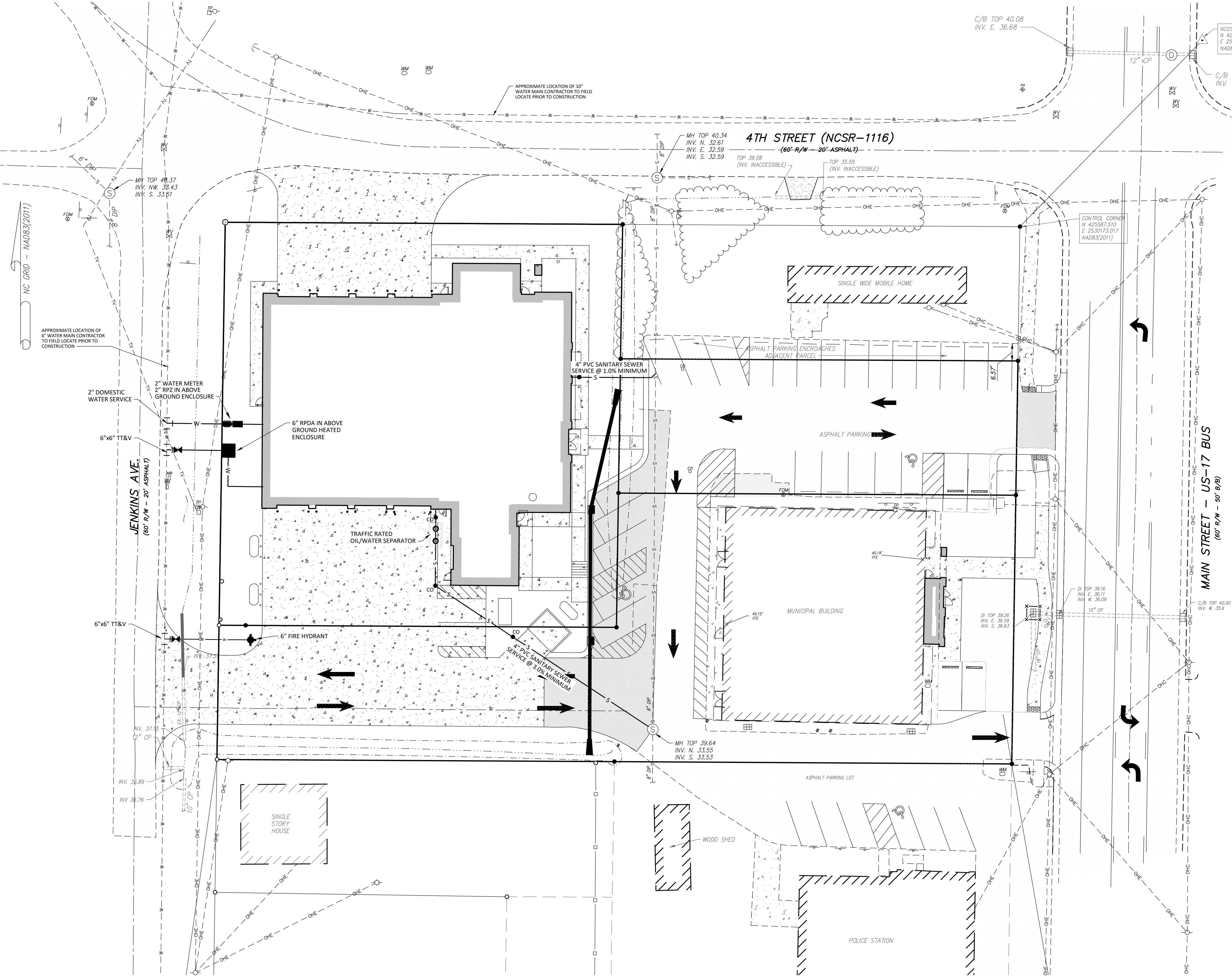
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DOCUMENTS
SHEET NAME & NUMBER

DEMOLITION & EROSION
CONTROL PLAN

C2.0

20' 0 10' 20'
SCALE 1 inch = 20 ft



Utility Separation Requirements

- SEWERS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IN CASES WHERE IT IS NOT PRACTICAL TO MAINTAIN A 10 FOOT SEPARATION, THE APPROPRIATE REVIEWING AGENCY MAY ALLOW DEVIATION ON A CASE BY CASE BASIS, IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. SUCH DEVIATION MAY ALLOW INSTALLATION OF THE SEWER CLOSER TO A WATER MAIN, PROVIDED THAT THE WATER MAIN IS IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AND AT AN ELEVATION SO THE BOTTOM OF THE WATER MAIN IS AT LEAST 24 INCHES ABOVE THE TOP OF THE SEWER.
- IF IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS DESCRIBED ABOVE OR ANYTIME THE SEWER IS OVER THE WATER MAIN, BOTH WATER MAIN AND SEWER MUST BE CONSTRUCTED OF FERROUS PIPE COMPLYING WITH PUBLIC WATER SUPPLY DESIGN STANDARDS AND BE PRESSURE TESTED TO 150 PSI TO ASSURE WATERTIGHTNESS BEFORE BACKFILLING.
- A 24 INCH VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN STORM SEWER AND SANITARY SEWER LINES OR FERROUS PIPE SPECIFIED.

CROSSINGS:

- SEWERS CROSSING WATER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 24 INCHES BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS.
- WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATION AS STIPULATED ABOVE, ONE OF THE FOLLOWING METHODS MUST BE SPECIFIED:
 - THE SEWER SHALL BE DESIGNED AND CONSTRUCTED OF FERROUS PIPE AND SHALL BE PRESSURE TESTED AT 150 PSI TO ASSURE WATERTIGHTNESS PRIOR TO BACKFILLING, OR
 - EITHER THE WATER MAIN OR THE SEWER LINE MAYBE ENCASED IN A WATERTIGHT CARRIER PIPE WHICH EXTENDS 10 FEET ON BOTH SIDES OF THE CROSSING, MEASURED PERPENDICULAR TO THE WATER MAIN. THE CARRIER PIPE SHALL BE OF MATERIALS APPROVED BY THE REGULATORY AGENCY OF USE IN WATER MAIN CONSTRUCTION.

Utility Notes:

- CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS FOR THE RELOCATION / ABANDONMENT OF EXISTING UTILITIES AND INSTALLATION OF NEW UTILITY SERVICES AS WELL AS FEES ASSOCIATED WITH SUCH WORK.
- COORDINATE WITH MEP PLANS FOR ELECTRICAL SERVICE INFORMATION.
- ANY CLEANOUT THAT FALLS IN PAVEMENT WILL NEED TO BE TRAFFIC RATED SEE ATTACHED DETAILS.

Legend

EXISTING	PROPOSED
GEODETIC CONTROL MONUMENT	
EXISTING IRON PIPE	
EXISTING MAG NAIL	
EXISTING REBAR	
IRON PIPE SET	
CATCH BASIN	
SIGN	
FIBER OPTIC MONUMENT	
TELEPHONE PEDESTAL	
ELECTRIC POWER POLE	
WATER METER	WM
SEWER VALVE	
WATER VALVE	
FIRE HYDRANT	FH
STORM PIPE	
BACK OF CURB	
EDGE OF PAVEMENT	
PROPERTY BOUNDARY	
ADJOINER (NOT SURVEYED)	
ADJOINER (SURVEYED)	
FENCE	
OVERHEAD ELECTRIC LINE	
OVERHEAD COMMUNICATION LINE	
CONTOUR LINE - MINOR	
CONTOUR LINE - MAJOR	
WATER MAIN/SERVICE	
SANITARY SEWER MAIN/SERVICE	
LIMIT OF DISTURBANCE	
DEMOLISH / REMOVE	
SPOT ELEVATION (HARD SURFACE)	
SPOT ELEVATION (GROUND)	
TOP OF BACK OF CURB	
TOP OF CONCRETE	
TOP OF ASPHALT	
FINISHED FLOOR ELEVATION	
INLET PROTECTION	
GRAVEL	
CONCRETE	
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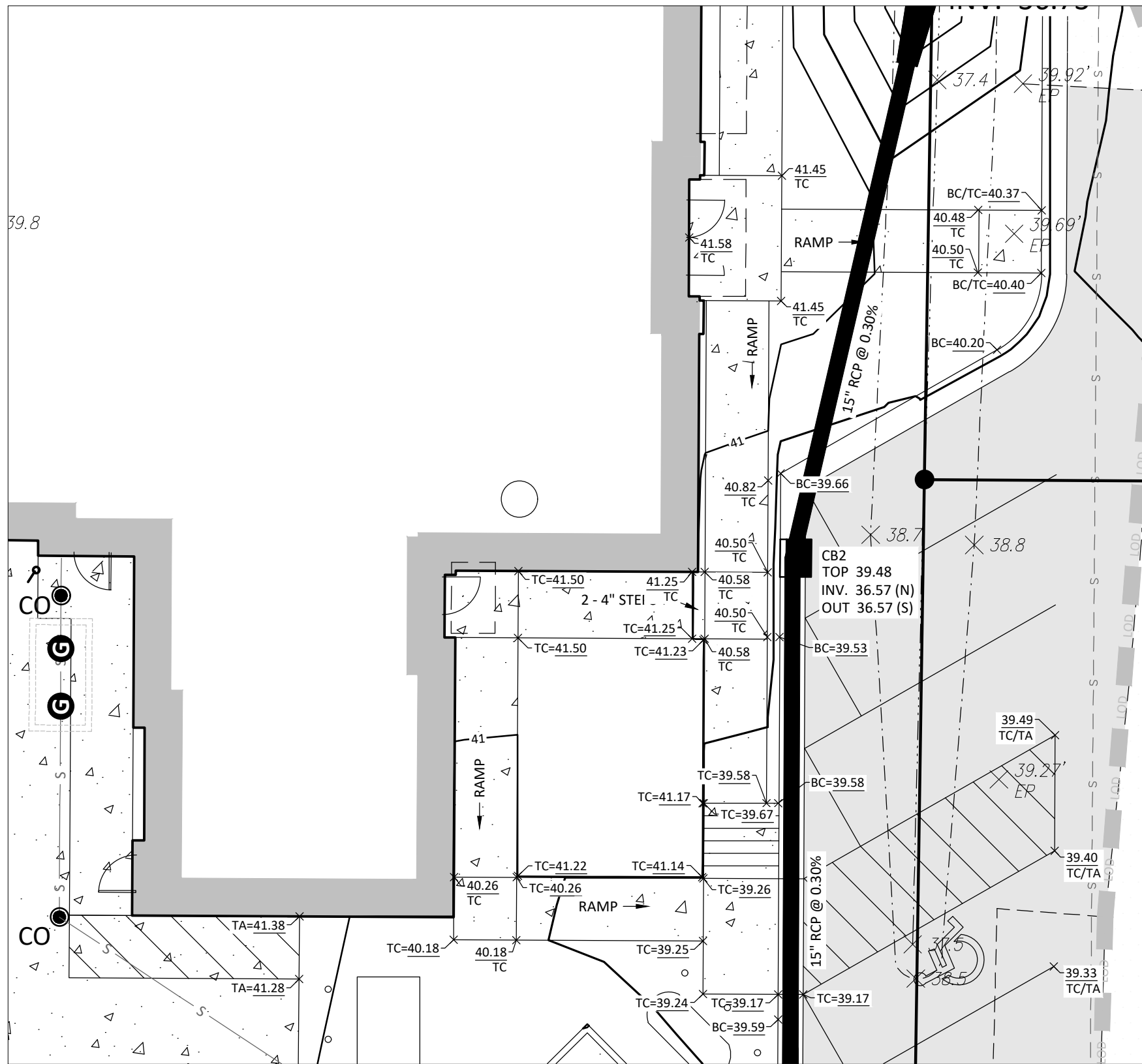
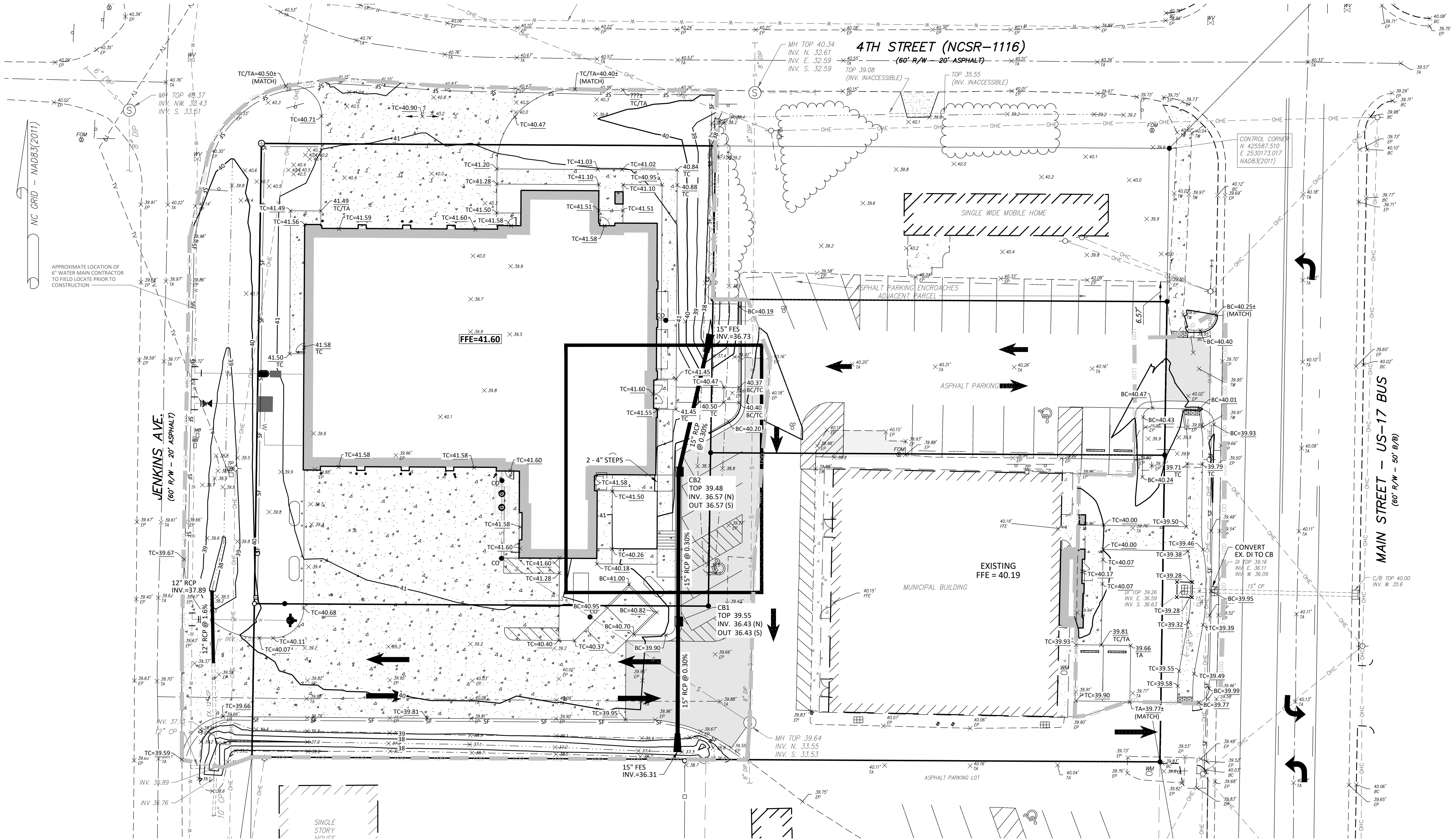
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DOCUMENTS**
SHEET NAME & NUMBER
UTILITIES PLAN

C3.0

20' 0 10' 20'
SCALE 1 inch = 20 ft



Inset 'A'
SCALE: 1"=10'

Grading Notes:

- ALL AREAS WITHIN LIMITS OF DISTURBANCE SHALL BE CLEARED AND GRUBBED.
- TREES OUTSIDE OF CONSTRUCTION LIMITS OR TREES NOT INDICATED TO BE REMOVED SHALL BE PROTECTED.
- CONTRACTOR TO GRADE ALL AREAS WITHIN THE LIMITS OF DISTURBANCE FROM BUILDING TO PROPERTY LINES AND TO EDGE OF PAVEMENT ON STREET SIDES, INCLUDING ROW.
- TOP SOIL SHALL BE STRIPPED FROM ALL CUT AND FILL AREAS, STOCKPILED AND REDISTRIBUTED OVER GRADED AREAS. PROVIDE EROSION AND SEDIMENTATION CONTROLS AROUND STOCKPILES DURING CONSTRUCTION.
- TILL SOIL TO A DEPTH OF 4" MINIMUM.
- REMOVE ALL ROCKS LARGER THAN 1" MEASURED IN LARGEST DIRECTION.
- GRADE ALL AREAS TO MAINTAIN POSITIVE SLOPE AWAY FROM BUILDING.
- ALL GRADED AREAS TO RECEIVE SEED OR SOD, TOP SOIL, STRAW AND WATER UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- INSTALL TEMPORARY TURF REINFORCEMENT MATTING ON ALL SLOPES STEEPER THAN 3:1. MATTING SHALL BE CONTECH LANDLOK C2 OR EQUAL.
- DUMPSTER PAD AND APRON SHALL BE 6" THICK 4,000 PSI CONCRETE OVER NOT LESS THAN 4" OF COMPACTED AGGREGATE BASE COURSE. REINFORCING SHALL BE #4 REBAR @ 12" ON CENTER IN EACH DIRECTION. REBAR SHALL BE LOCATED IN UPPER 1/3 OF SLAB AND SUPPORTED ON CHAIRS.
- ALL SIDEWALKS SHALL BE CONSTRUCTED OF 4" THICK 3,000 PSI CONCRETE REINFORCED WITH #6 W1.4 WELDED WIRE FABRIC. ALL SIDEWALKS SHALL HAVE TOOLED CONTROL JOINTS NOT EXCEEDING 5' SPACING IN ANY DIRECTION.
- ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADES SHALL BE COMPACTED TO 100% OF ASTM D698 TO A DEPTH OF 24" AND TO 95% OF ASTM D698 BELOW 24" DEPTHS. ALL OTHER NON-STRUCTURAL AREAS SHALL BE COMPACTED TO 90% OF ASTM D698.
- ALL BUILDING, SIDEWALK, AND PAVEMENT SUB-GRADE COMPACTIONS SHALL BE INTERMEDIATELY TESTED AND APPROVED BY THE GEOTECHNICAL ENGINEER. ALL SUB-GRADES SHALL BE THOROUGHLY PROOF-ROLLED TO IDENTIFY SMALL LOCALIZED AREAS OF UNSUITABLE SOILS. ALL UNSUITABLE SOILS SHALL BE UNDERCUT, REPLACED WITH STRUCTURAL FILL, AND COMPACTED AS DESCRIBED ABOVE.

Permanent Seeding Schedule

SEED BED PREPARATION	
LIME	- 2 TONS PER ACRE
FERTILIZER (10-20-20)	- 500 POUNDS PER ACRE
SEEDING MIXTURE:	
(JANUARY 1 - MARCH 31)	
COMMON BERMUDA GRASS (UNHULLED)	- 20 POUNDS PER ACRE
RYE (GRAIN)	- 25 POUNDS PER ACRE
(APRIL 1 - JULY 31)	
COMMON BERMUDA GRASS (HULLED)	- 15 POUNDS PER ACRE
WEEDING LOVEGRASS	- 5 POUNDS PER ACRE
CENTPEDE	- 8 POUNDS PER ACRE
(AUGUST 1 - DECEMBER 31)	
COMMON BERMUDA GRASS (UNHULLED)	- 20 POUNDS PER ACRE
TALL FESCUE	- 60 POUNDS PER ACRE
RYE (GRAIN)	- 25 POUNDS PER ACRE
SEED BED PROTECTION:	
STRAW MULCH	- 2 TONS PER ACRE (VISUAL)
ASPHALT TACK	- 0.03 GALLONS PER SQUARE YARD

Legend

EXISTING	PROPOSED
	GEODETIC CONTROL MONUMENT
	EXISTING IRON PIPE
	EXISTING MAG NAIL
	EXISTING REBAR
	IRON PIPE SET
	CATCH BASIN
	SIGN
	FIBER OPTIC MONUMENT
	TELEPHONE PEDESTAL
	ELECTRIC POWER POLE
	WATER METER
	SEWER VALVE
	WATER VALVE
	FIRE HYDRANT
	STORM PIPE
	BACK OF CURB
	EDGE OF PAVEMENT
	PROPERTY BOUNDARY
	ADJOINER (NOT SURVEYED)
	ADJOINER (SURVEYED)
	FENCE
	OVERHEAD ELECTRIC LINE
	OVERHEAD COMMUNICATION LINE
	CONTOUR LINE - MINOR
	CONTOUR LINE - MAJOR
	WATER MAIN/SERVICE
	SANITARY SEWER MAIN/SERVICE
	SILTY FENCE
	LIMIT OF DISTURBANCE
	DEMOLISH / REMOVE
	SPOT ELEVATION (HARD SURFACE)
	SPOT ELEVATION (GROUND)
	TOP OF BACK OF CURB
	TOP OF CONCRETE
	TOP OF ASPHALT
	FINISHED FLOOR ELEVATION
	INLET PROTECTION
	GRAVEL
	CONCRETE

20' 0 10' 20'
SCALE 1 inch = 20 ft



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REVISIONS:
DESC: DATE

DRAWN BY: CEW
PROJECT #: 24008
ISSUE DATE: 04/30/25
PHASE:
CONSTRUCTION
DOCUMENTS
SHEET NAME & NUMBER

GRADING PLAN

C4.0



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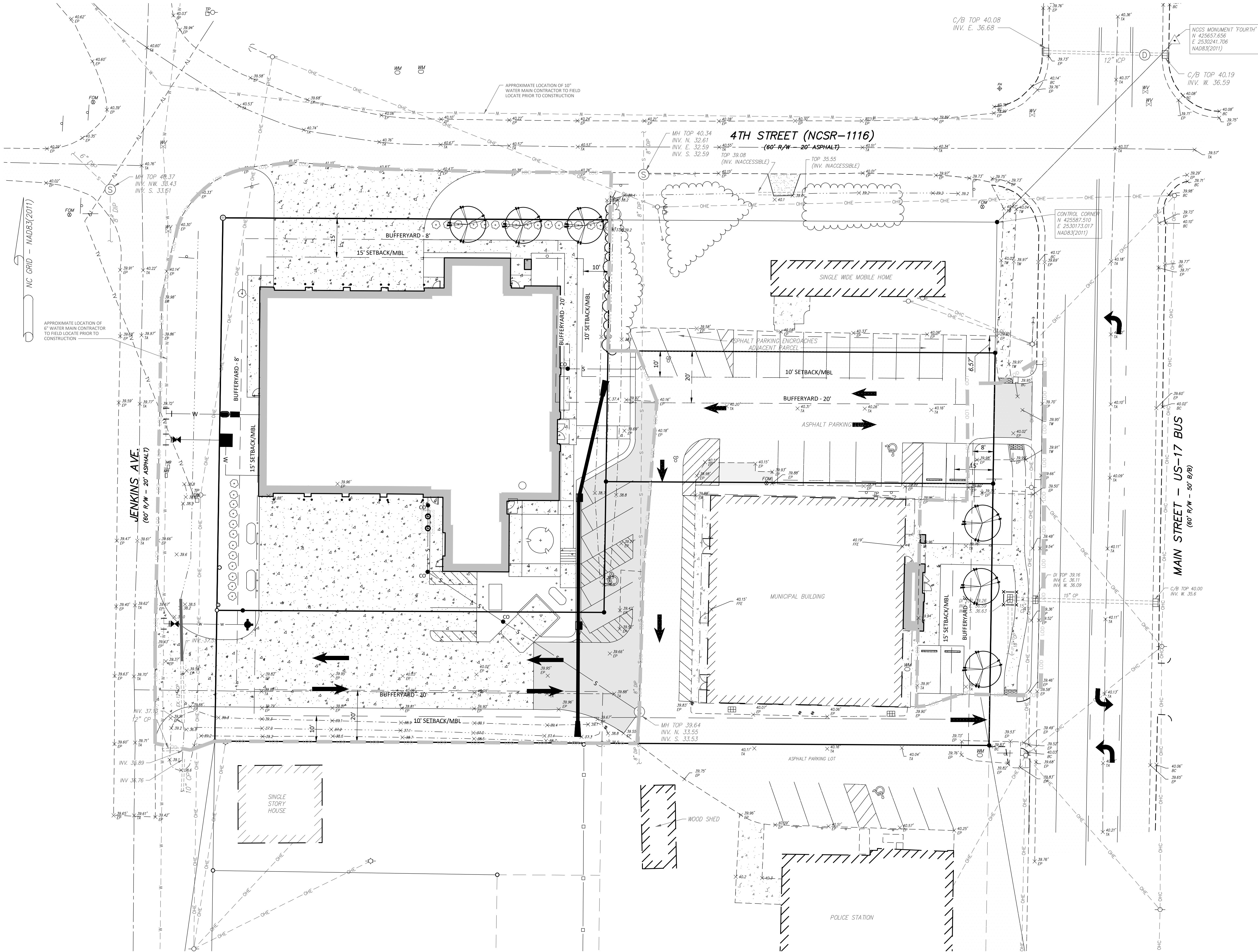


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4/30/23

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Vegetation Legend:

- PROPOSED LARGE TREE
- PROPOSED SMALL TREE (SITE)
- PROPOSED SHRUB

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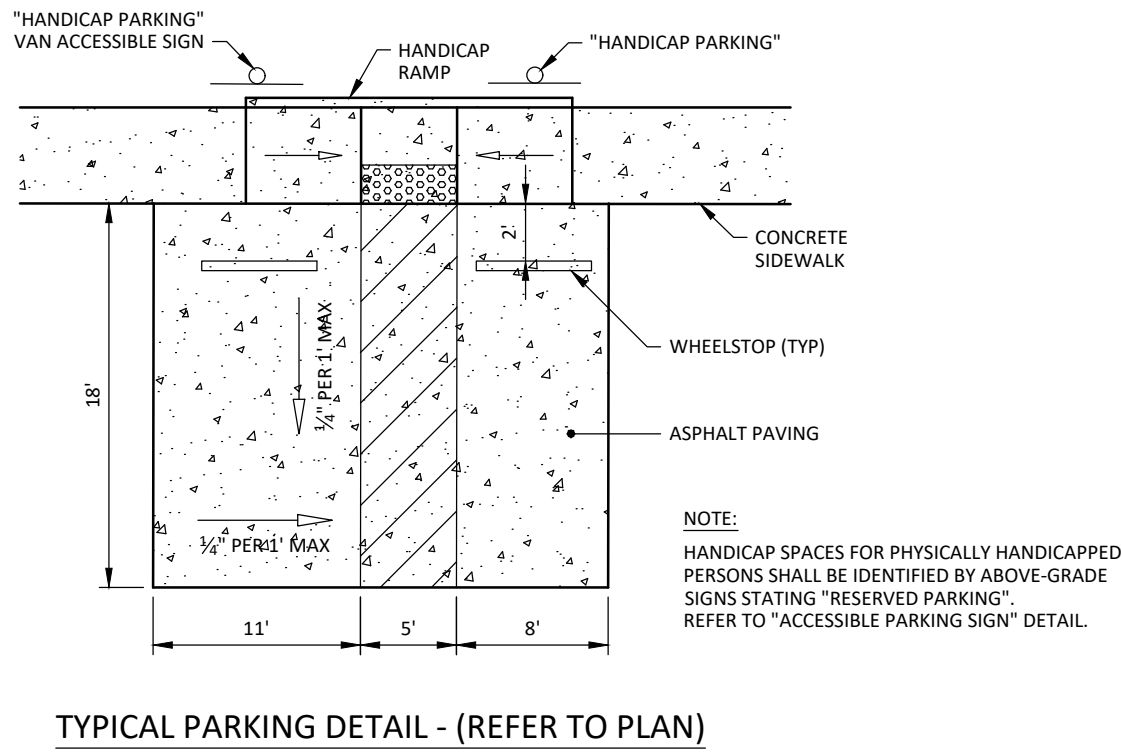
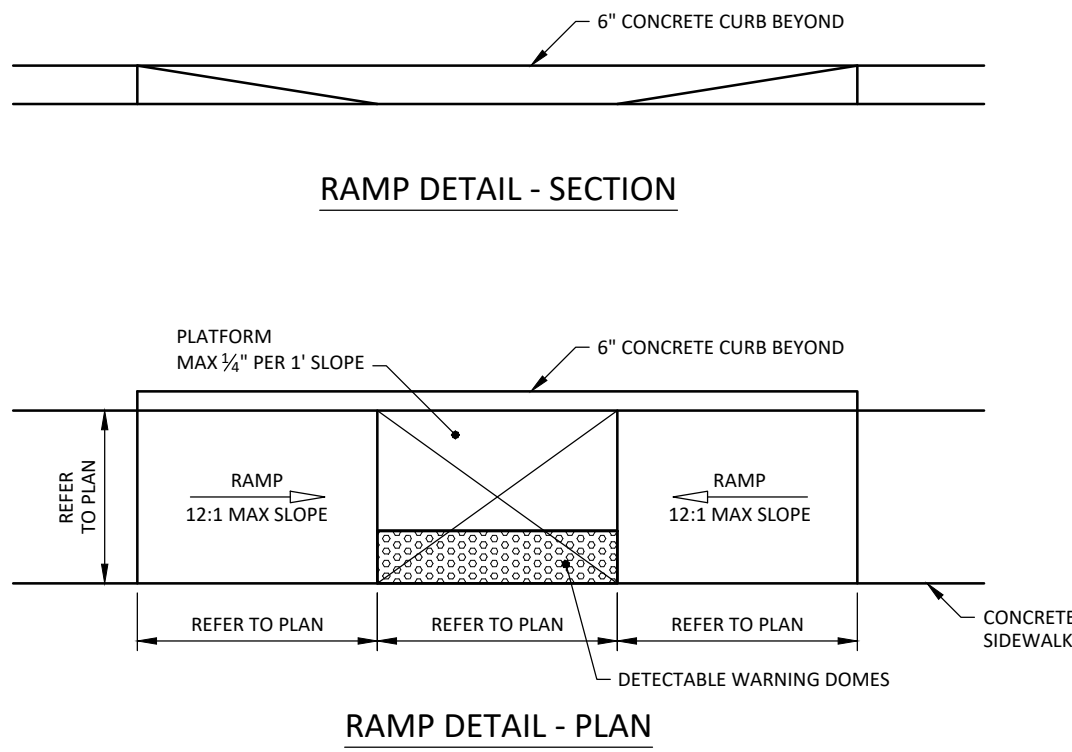
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PROJECT #: 24008
ISSUE DATE: 04/30/25
PHASE:
CONSTRUCTION
DOCUMENTS
SHEET NAME & NUMBER

**REQUIRED
VEGETATION PLAN**

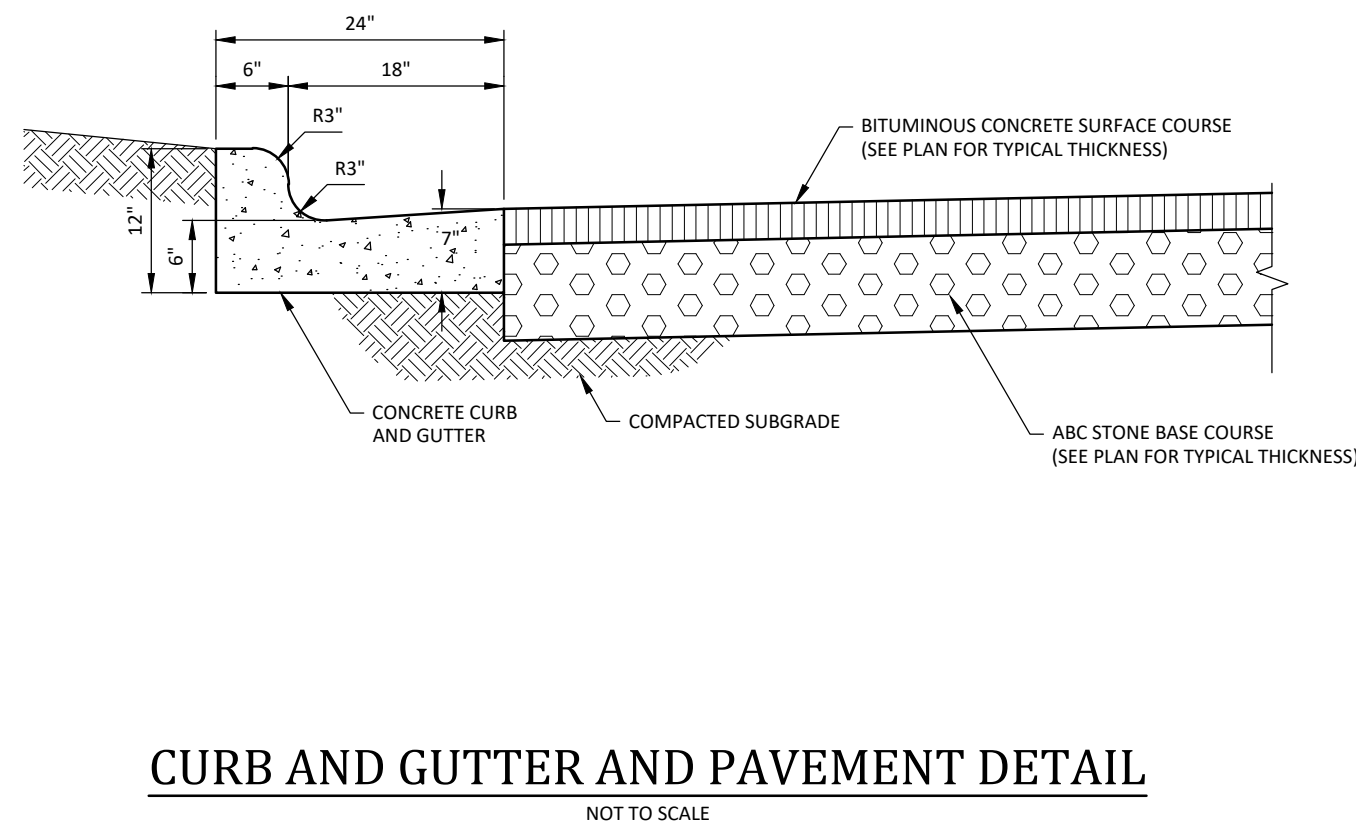
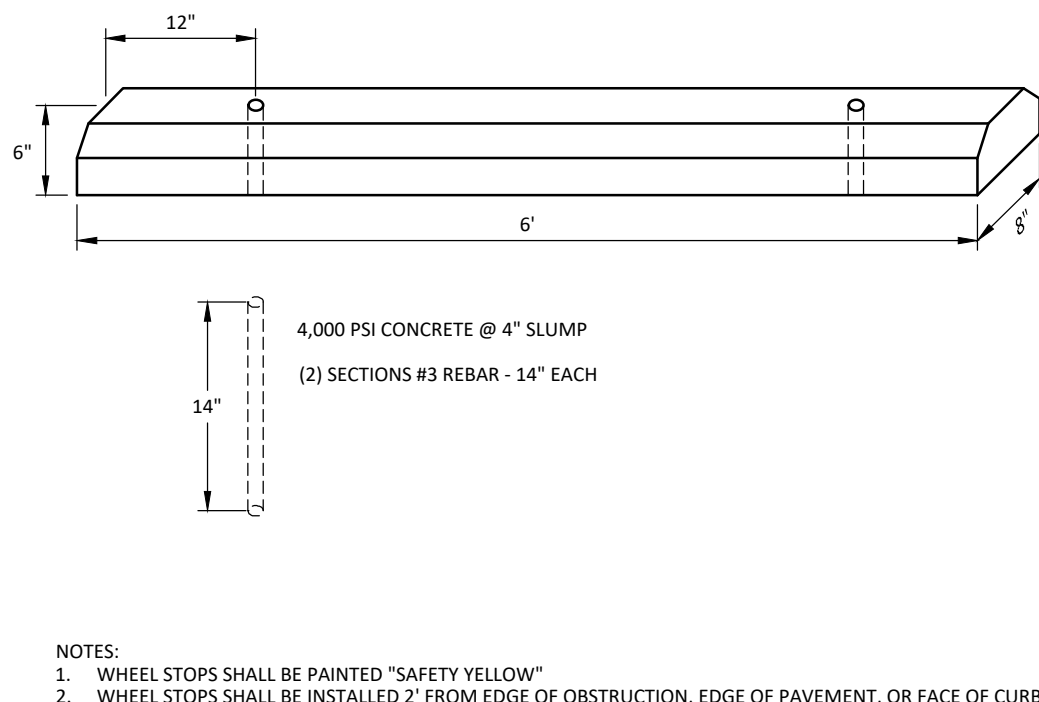
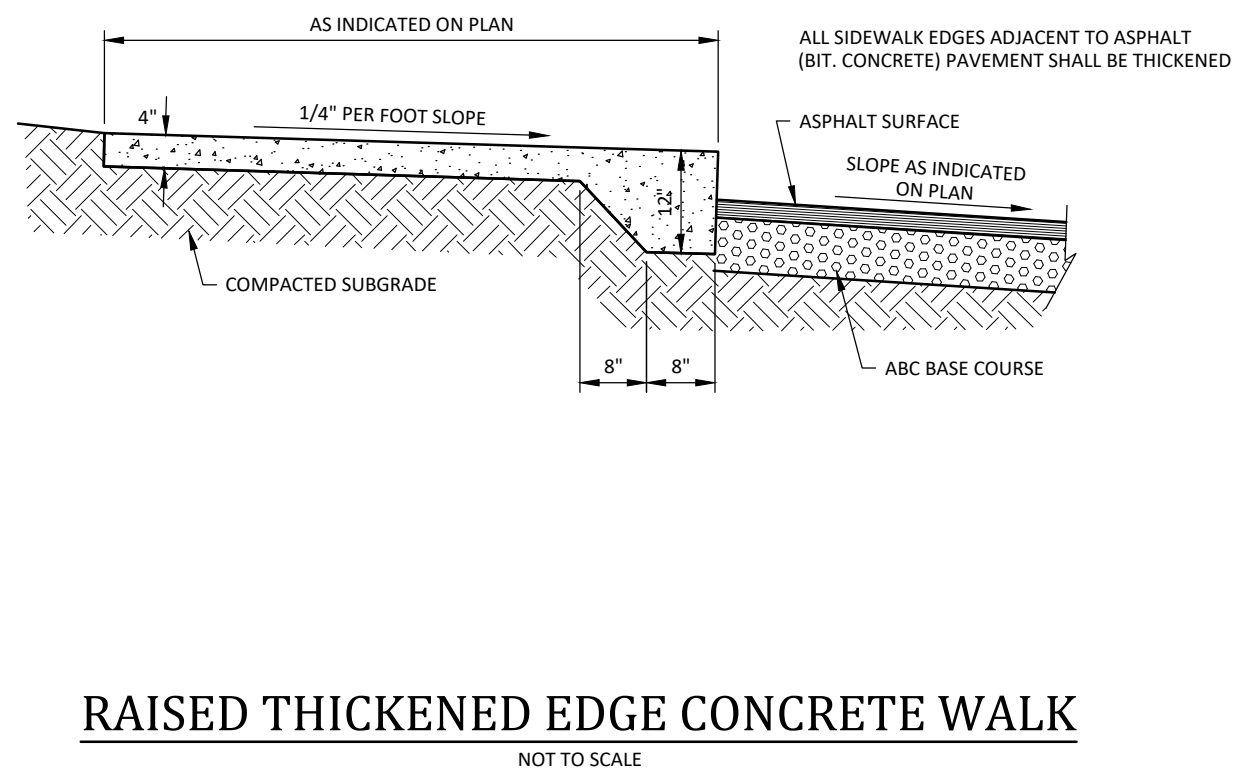
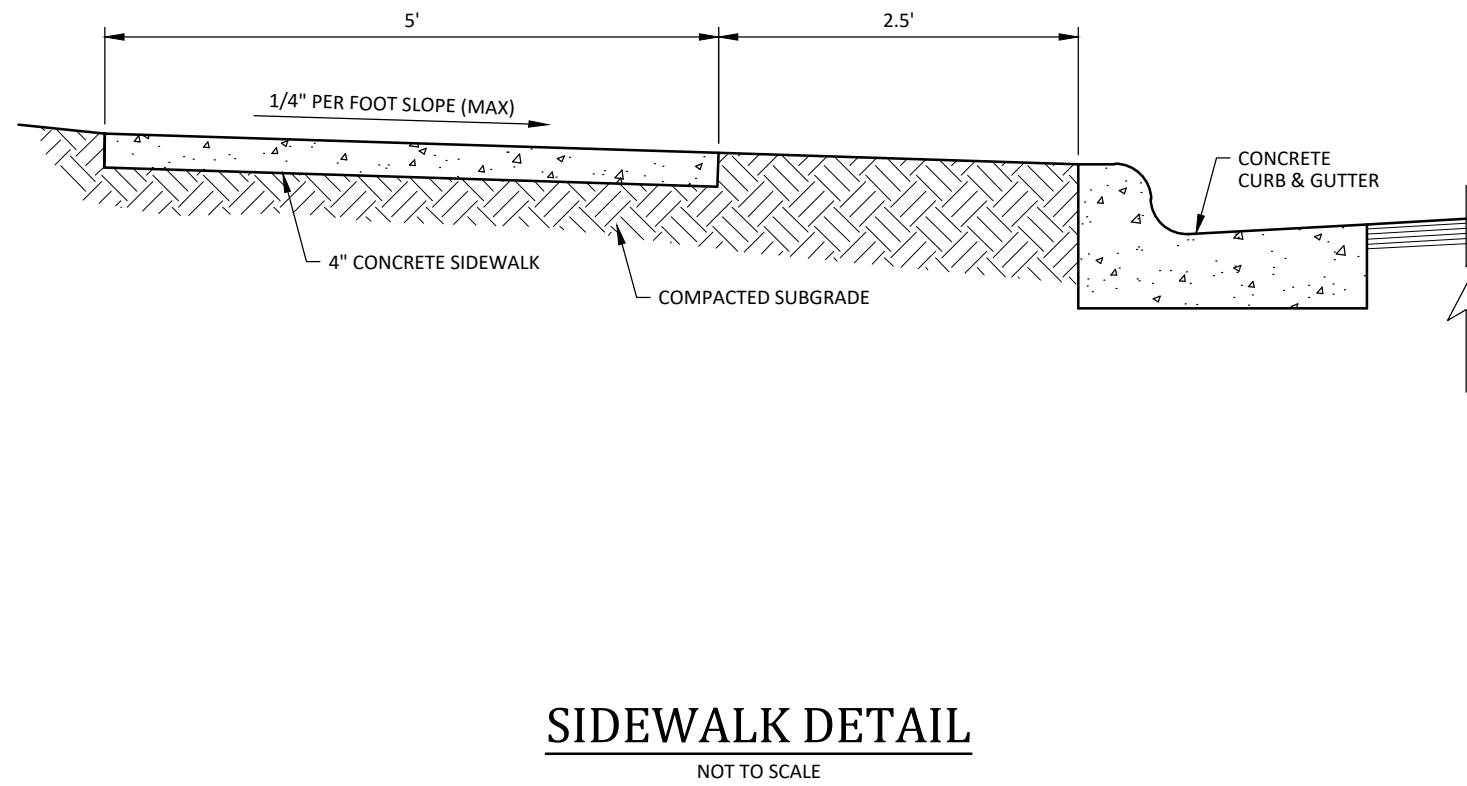
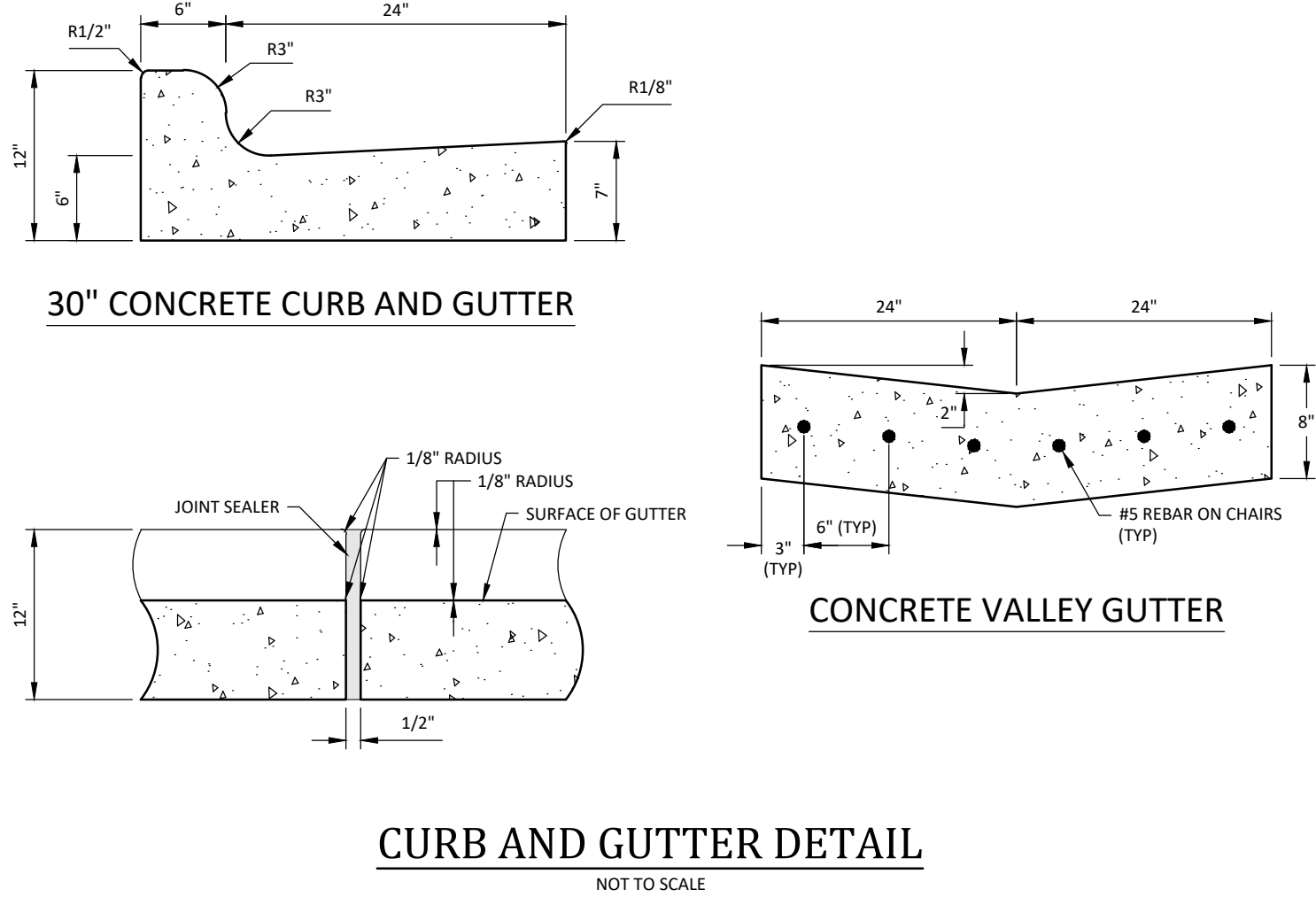
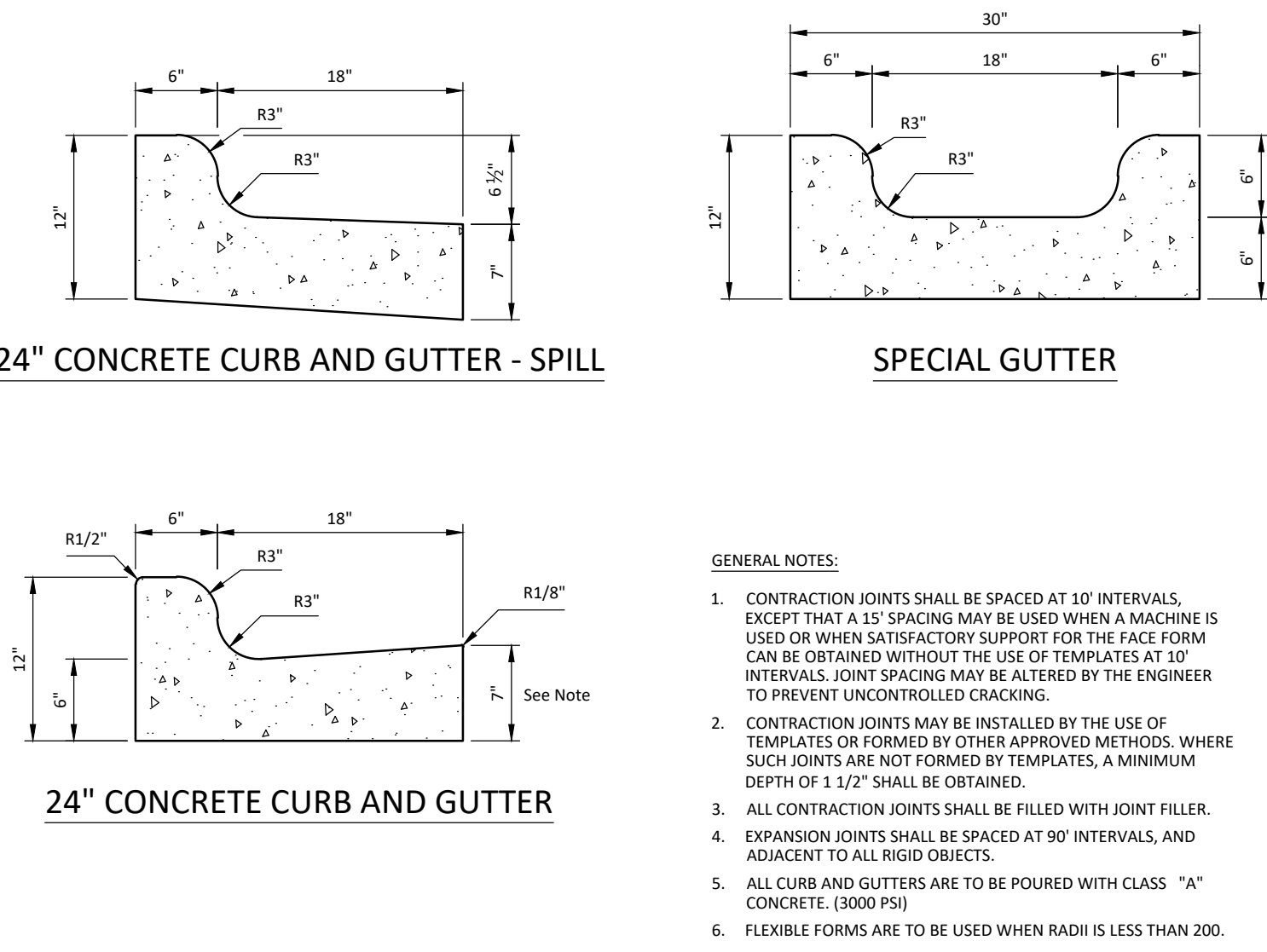
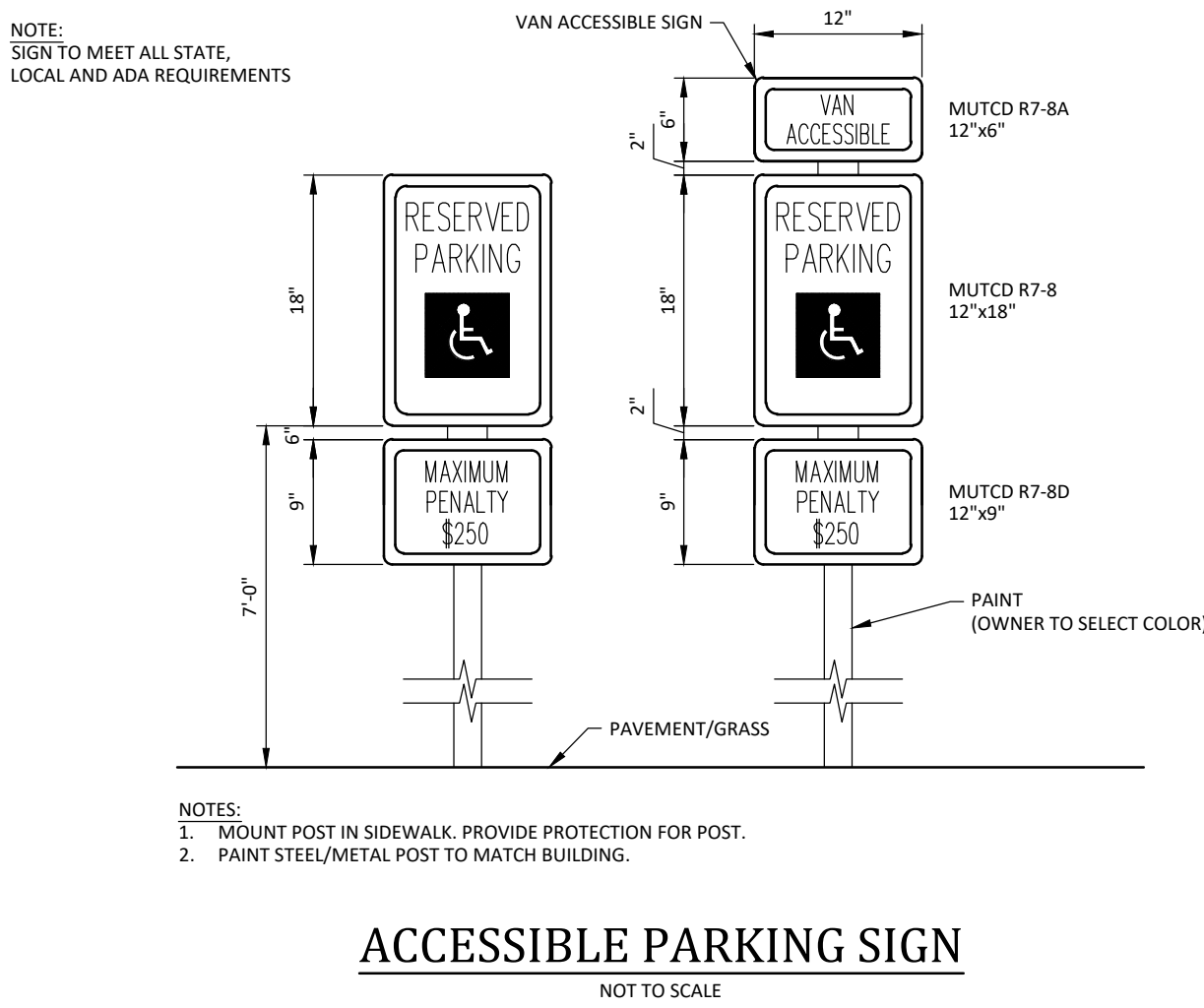
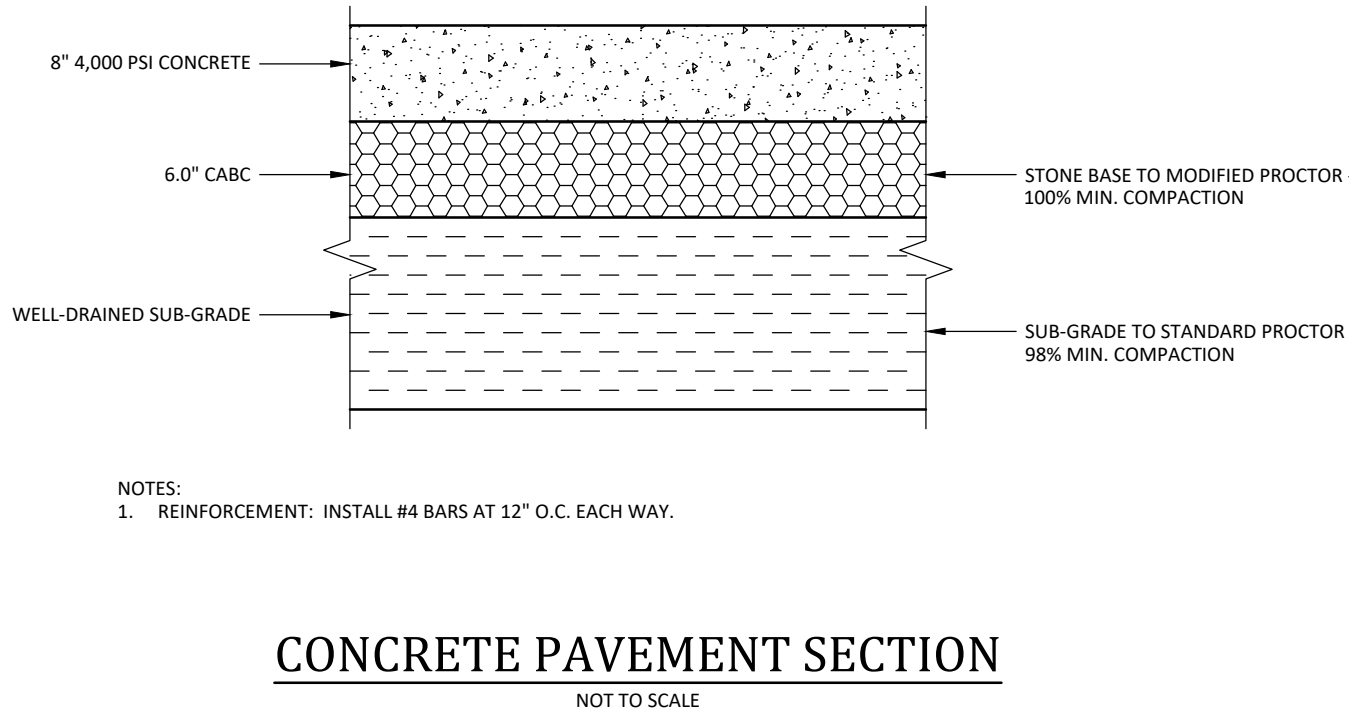
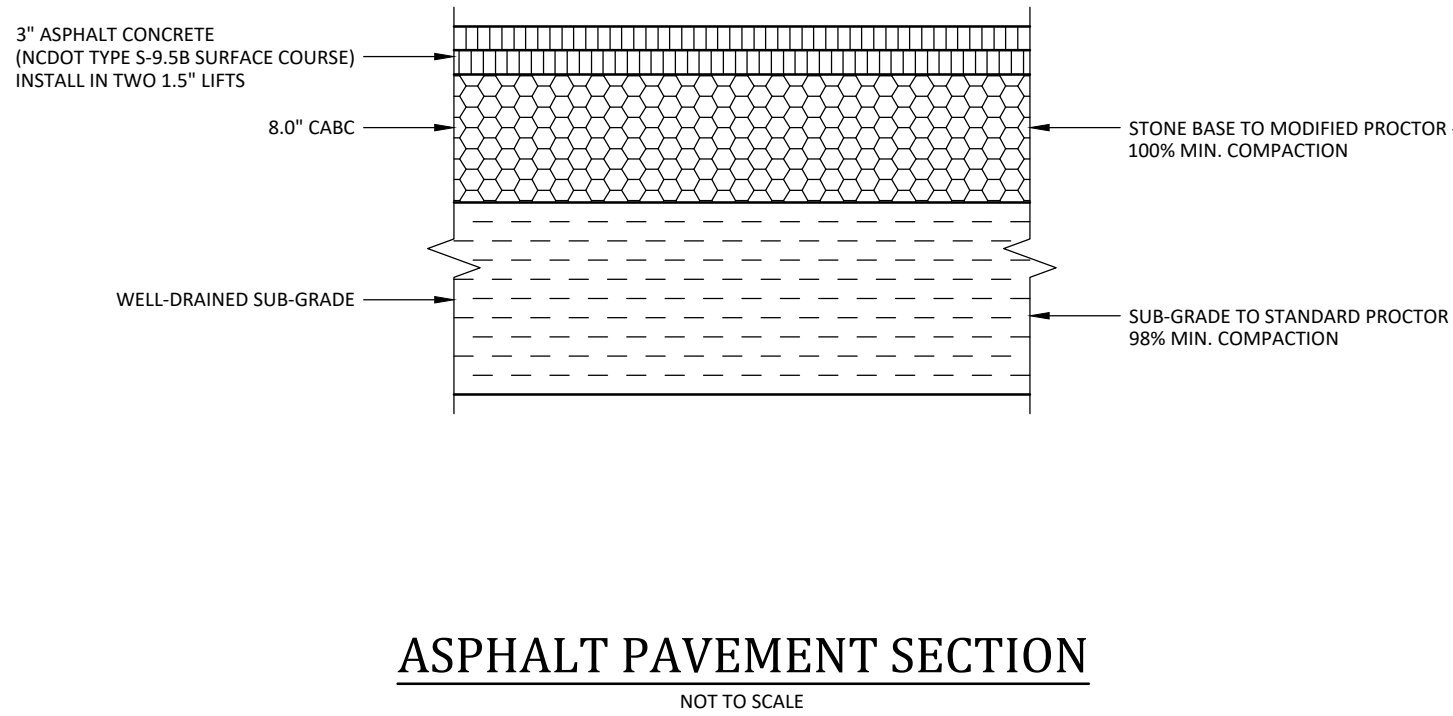
C5.0





ACCESSIBLE PARKING DETAIL

NOT TO SCALE



PLAN OF TOP SLAB

CURB AND GUTTER W/ CATCH BASIN ON STEEP GRADE

SECTION - RR

ELEVATION

SECTION - SS

ELEVATION

BE USED FOR CONSTRUCTION OF BOTTOM SLABS
TAK JOINTS TO BE 1/2" PLUS OR MINUS 1/8"
RICK WILL BE PERMITTED
N BOXES SHALL BE PROVIDED WITH STEPS 1'-2" ON CENTER. STEPS
ACCORDANCE WITH CITY OF GREENVILLE STANDARD NUMBER 25.12.

The drawing consists of two parts: a plan view on the left and a section view 'A' on the right. The plan view shows a square manhole box with a central square opening. The outer square has a side length of 3'-0". The inner square opening has a side length of 2'-2". The box walls are shown with hatching. The section view 'A' shows a cross-section of the box. It features an 8" brick wall on the left and a concrete slab at the bottom. The total width of the section is 4'-4". The height of the brick wall is 8". The concrete slab is 8" thick. The manhole ring and cover are shown on top. The section view also shows 3,000 PSI concrete slabs with No. 6 bars @ 18" (both ways) on either side of the manhole. The section view is labeled 'SECTION 'A''.

MANHOLE RING AND COVER

3,000 PSI CONC. SLAB WITH NO. 6 BARS @ 18" (BOTH WAYS)

8" BRICK WALL

2'-2"

8"

VARIES

CONCRETE SLAB

4'-4"

PLAN

SECTION 'A'

Diagram illustrating a restrained joint for a pipe installation, showing the joint, pipe, and surrounding structure.

Labels and Dimensions:

- 3'-0" BELOW FINISHED GRADE
- 18" TO 36" W/ CAP SECURED W/ CHAIN
- FINISHED GRADE
- 2'-0" BELOW FINISHED GRADE
- THRUST BLOCKING
- TO SYSTEM
- RESTRAINED JOINT
- RESTRAINED JOINT
- BALL DROP IN GRAVEL WRAP GRAVEL IN FILTER FABRIC (PSS, OR EQUAL)
- 2'-0" BELOW FINISHED GRADE
- BITUMINOUS COATING APPLIED TO GALVANIZED
- STABILIZE PIPE WITH 2' X 2' X 6' CONC. PAD

-
- The image displays six technical drawings of a manhole assembly, labeled PLAN, SECTION-XX, END ELEVATION, SECTION-YY, SIDE ELEVATION, and SECTION-MM.
- PLAN:** Shows the top view of the manhole. It includes a central circular opening with diameter 'D'. The inner frame has dimensions 'A' and 'B'. The outer frame has dimensions 'X' and 'Y'. A label 'BACK OF CURB' points to the outer edge.
 - SECTION-XX:** A cross-section showing the vertical profile. It includes a frame, grate, and hood. Dimensions include a total height of 12", a curb height of 8", and a frame width of 6". The inner opening has a diameter of 8" and a depth of 'H'.
 - END ELEVATION:** A side view showing the manhole's profile. It includes a frame, grate, and hood. Dimensions include a total height of 12", a curb height of 8", and a frame width of 6". The inner opening has a diameter of 8" and a depth of 'H'.
 - SECTION-YY:** A cross-section showing the vertical profile. It includes a frame, grate, and hood. Dimensions include a total height of 12", a curb height of 8", and a frame width of 6". The inner opening has a diameter of 8" and a depth of 'H'. A label 'OUTLET' points to the bottom of the frame.
 - SIDE ELEVATION:** A side view showing the manhole's profile. It includes a frame, grate, and hood. Dimensions include a total height of 12", a curb height of 8", and a frame width of 6". The inner opening has a diameter of 8" and a depth of 'H'. A label 'STEP' points to the curb.
 - SECTION-MM:** A cross-section showing the vertical profile. It includes a frame, grate, and hood. Dimensions include a total height of 12", a curb height of 8", and a frame width of 6". The inner opening has a diameter of 8" and a depth of 'H'. A label 'STEP' points to the curb.

Diagram illustrating the cross-section of a trench for a pipe, showing the required layers and dimensions:

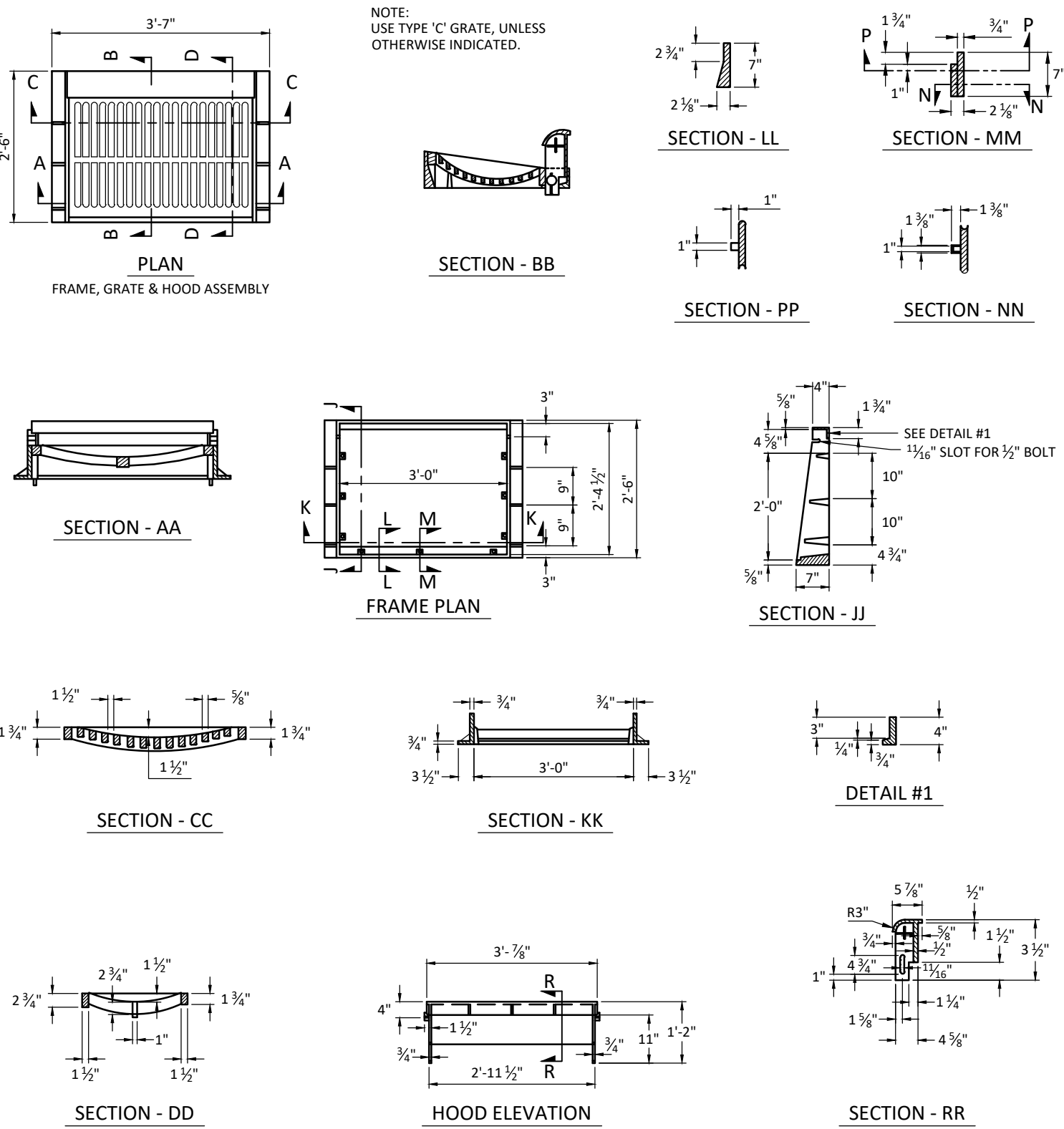
- FINISHED GRADE**: The top surface of the trench.
- BACKFILL**: The upper layer of the trench, indicated by a diagonal hatching pattern.
- SELECT BACKFILL**: The middle layer, indicated by a dotted pattern, with a minimum thickness of **12" MIN.**
- GRANULAR EMBEDMENT**: The bottom layer, indicated by a cross-hatching pattern, with a minimum thickness of **4" MIN.**
- PIPE**: The central pipe, shown as a circle within the Granular Embedment layer.

CLASS 'D'

Diagram illustrating the components and dimensions of a test cell assembly:

- TEST COCKS:** Three test cocks are located at the top of the assembly, with a vertical clearance of **6" MIN.** above them.
- SHUT-OFF VALVES:** Two shut-off valves, labeled **#1 SHUT-OFF VALVE** and **#2 SHUT-OFF VALVE**, are positioned on the left and right sides, respectively. A horizontal clearance of **6" MIN.** is indicated between the central vessel and these valves.
- RELIEF VALVE:** A relief valve is located at the bottom center of the vessel, with a vertical clearance of **12" MIN. 30" MAX.** below it.
- DRAINAGE PORT:** A drainage port is located at the bottom right of the vessel.
- ENCLOSURE:** The entire assembly is housed within a **FIBERGLASS PROTECTIVE ENCLOSURE**.
- CEMENT PAD:** The assembly is supported by a **CEMENT PAD** at the base.

NOT TO SCALE



NOT TO SCALE

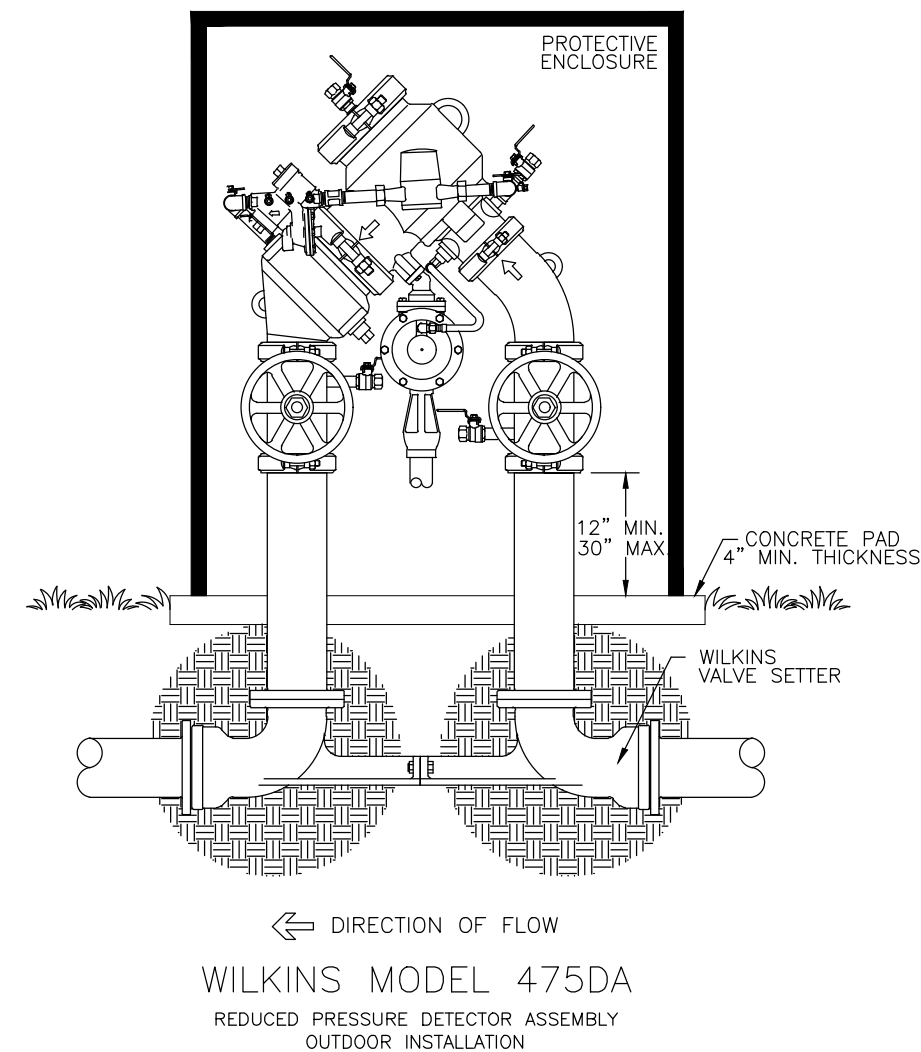
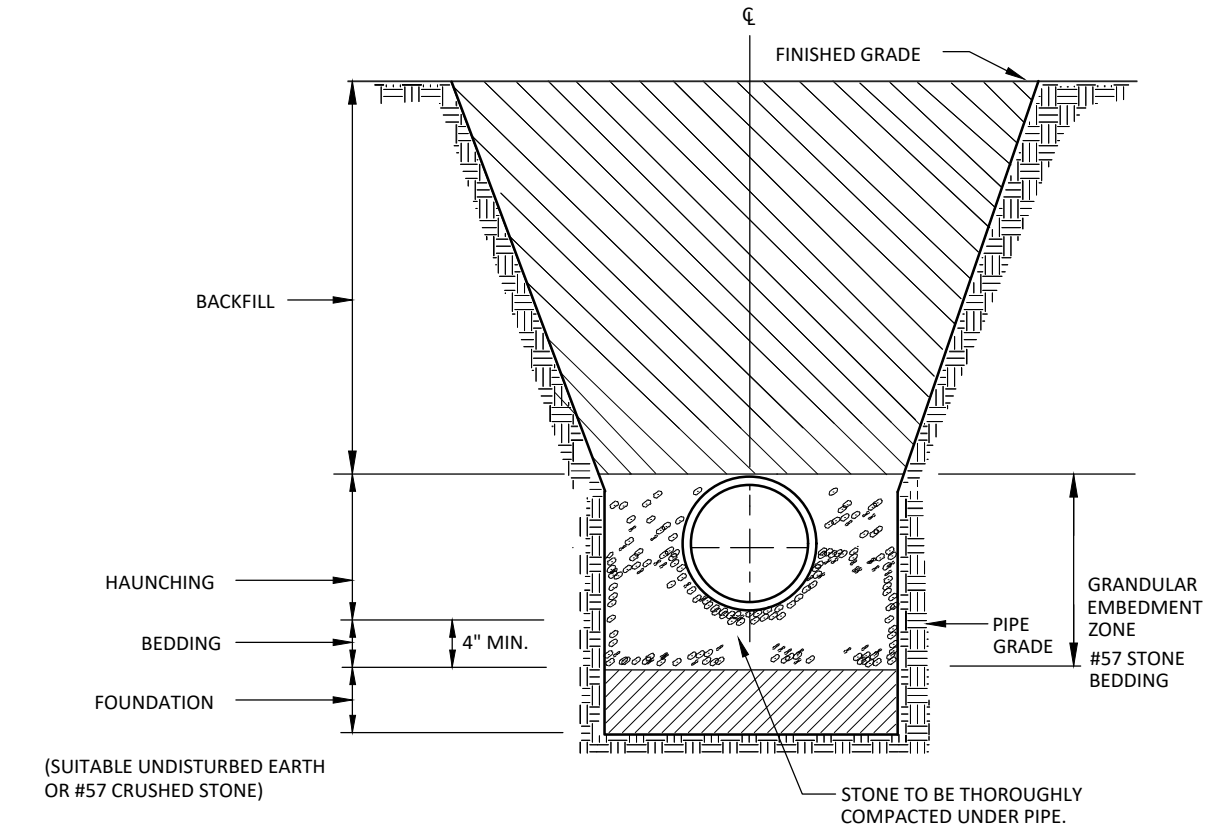
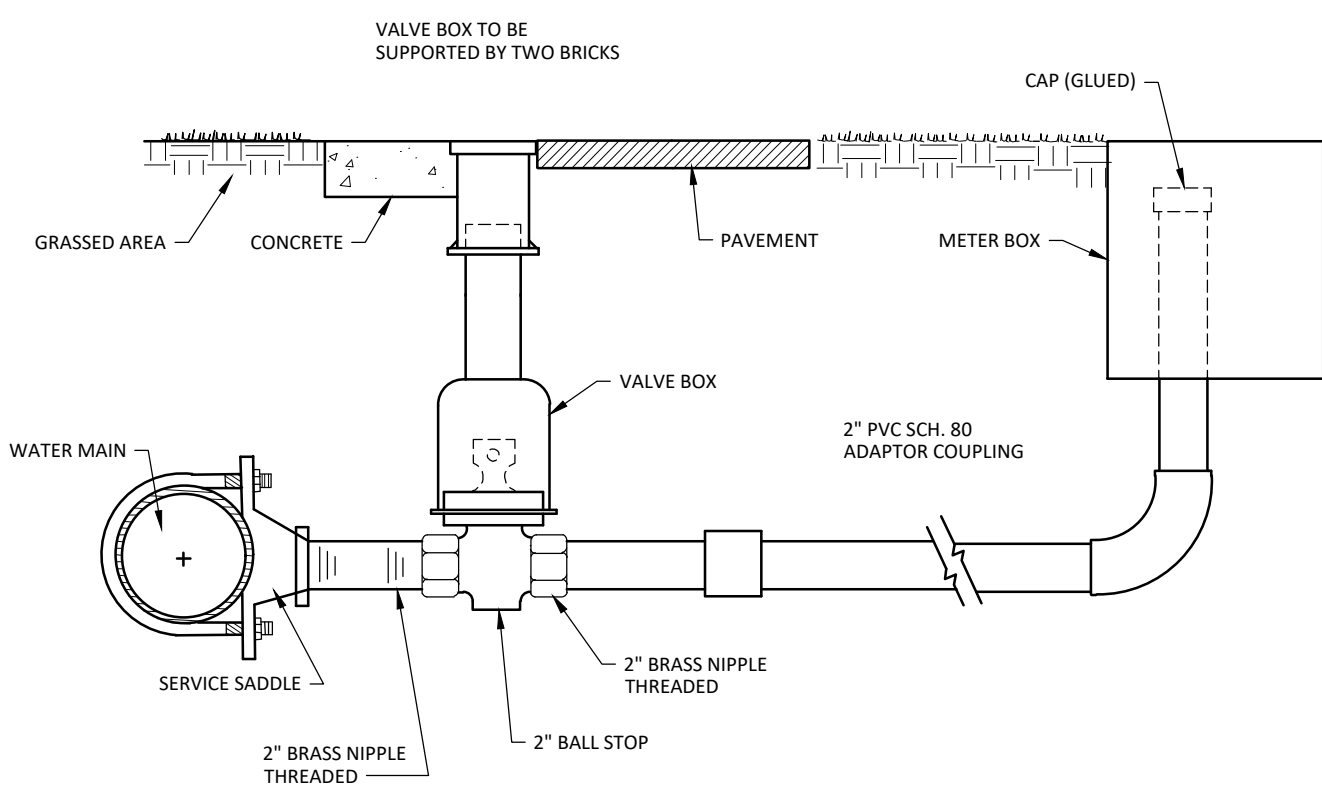


Diagram illustrating the connection of a cleanout to a main sewer line. The assembly includes a bolted plug at the top, a concrete collar, and a combination wye and 1/8 bend. The main sewer line continues to the right, labeled "PIPE CONTINUATION FOR ON LINE CLEANOUT" with an arrow indicating "FLOW" direction.

NOT TO SCALE



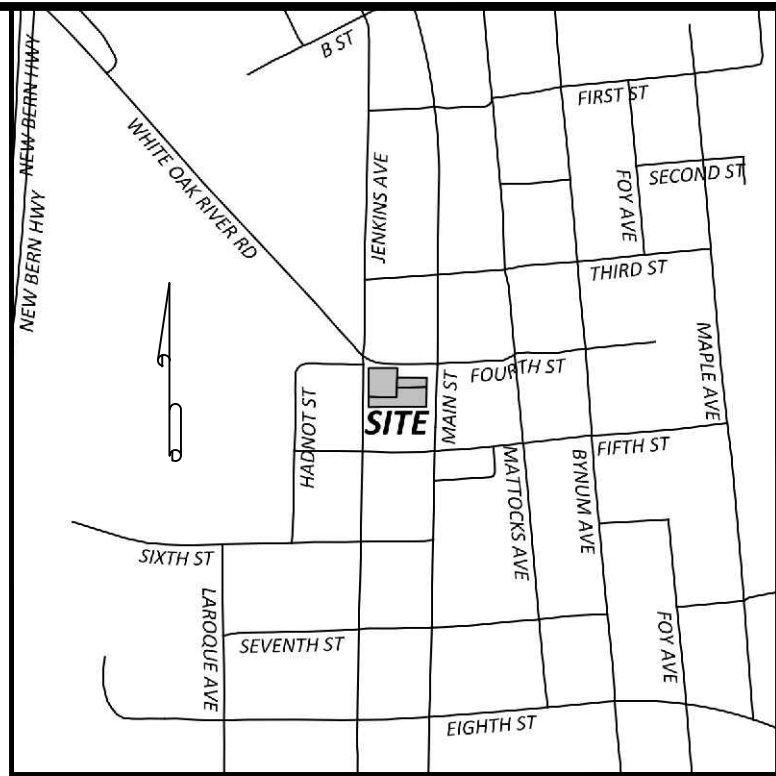
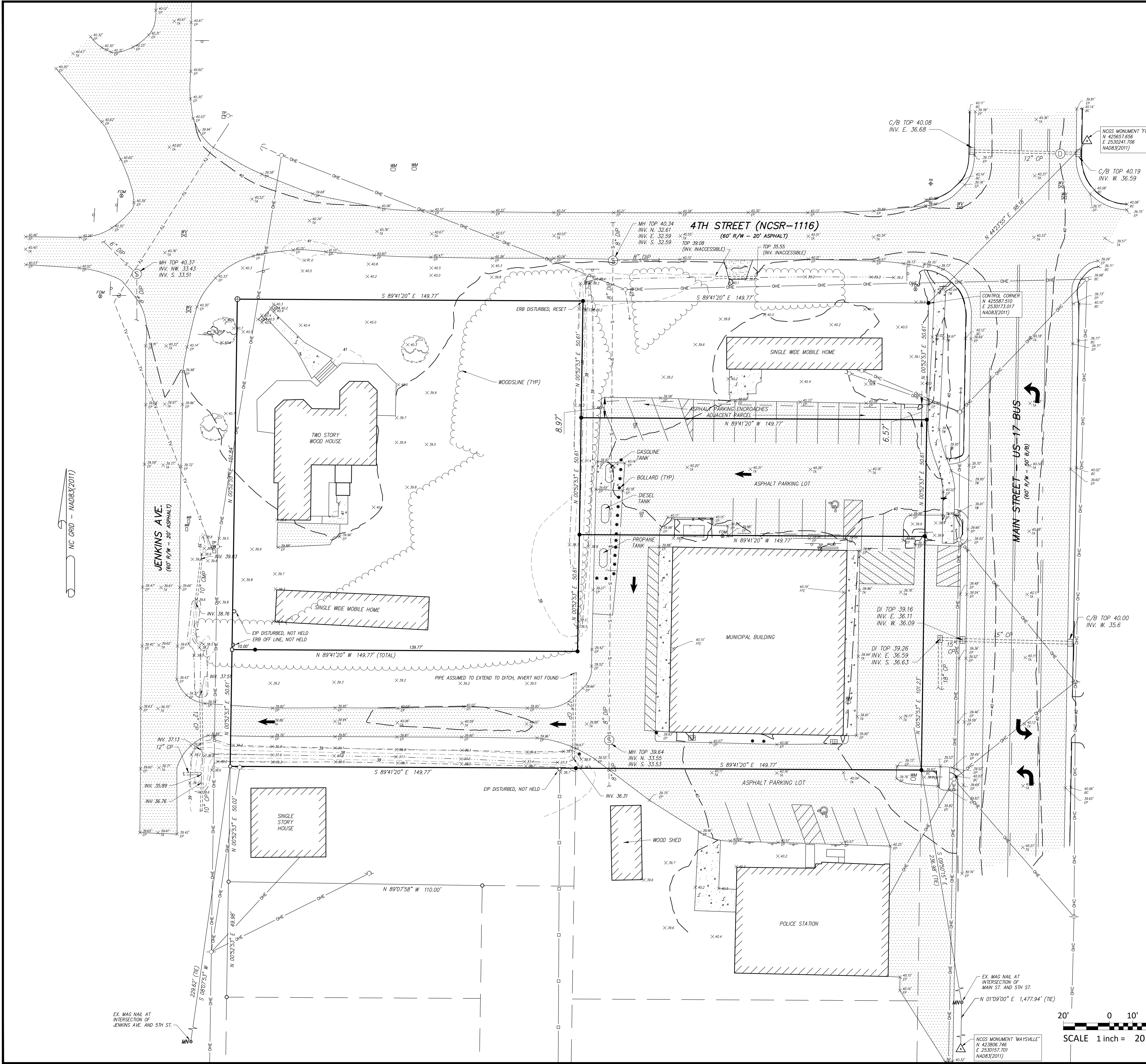
(GUC S-10) NOT TO SCALE



(GUC W-3) NOT TO SCALE

MAYSVILLE, NC 28555

C6.2



Vicinity Map
SCALE: 1" = 1000'

Legend

- △ GEODETIC CONTROL MONUMENT
- EXISTING IRON PIPE
- MNS ○ EXISTING MAG NAIL
- EXISTING REBAR
- IRON PIPE SET
- CATCH BASIN
- SIGN
- FIBER OPTIC MONUMENT
- TELEPHONE PEDESTAL
- ELECTRIC POWER POLE
- WATER METER
- SEWER VALVE
- WATER VALVE
- FIRE HYDRANT
- STORM PIPE
- BACK OF CURB
- EDGE OF PAVEMENT
- PROPERTY BOUNDARY
- ADJONER (NOT SURVEYED)
- ADJONER (SURVEYED)
- FENCE
- OVERHEAD ELECTRIC LINE
- OVERHEAD COMMUNICATION LINE
- CONTOUR LINE - MINOR
- CONTOUR LINE - MAJOR
- SPOT ELEVATION (HARD SURFACE)
- SPOT ELEVATION (GROUND)
- GRAVEL
- CONCRETE
- BUILDING

References

- D.B. 191 PG. 204
- D.B. 217 PG. 15
- D.B. 287 PG. 650
- D.B. 415 PG. 615
- JONES COUNTY REGISTRY

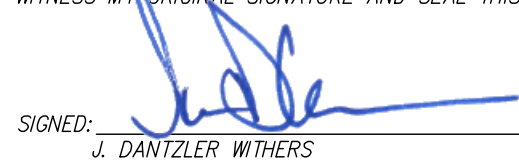
"JENKINS MAYSVILLE PROPERTY" PLAT,
ESTATE BK. 6 PG. 665-667

Notes:

- THIS IS A BOUNDARY AND TOPOGRAPHIC SURVEY OF JONES COUNTY TAX PARCELS 9531, 0391, AND 0422.
- ALL DISTANCES SHOWN ARE HORIZONTAL FIELD DISTANCES; NO GRID FACTOR APPLIED. THE COMBINED NC GRID FACTOR USED FOR GRID COORDINATE CALCULATIONS IS 0.99990045.
- THIS SURVEY HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE EXAMINATION REPORT AND IS SUBJECT TO ANY AND ALL TITLE MATTERS OF RECORD WHICH MAY AFFECT THIS PROPERTY.
- ELEVATIONS SHOWN ARE IN FEET (NAVD 88). ELEVATIONS SHOWN WERE CALCULATED RELATIVE TO A BENCHMARK SET UTILIZING NETWORK RTK SOLUTION.
- THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON IS BASED ON ABOVE GROUND APPURTENANCES AND INFORMATION PROVIDED BY OTHERS. NO GUARANTEE IS MADE AS TO THEIR EXACT LOCATION; OTHER UTILITIES MAY EXIST ON THIS PROPERTY THAT ARE NOT SHOWN HEREON.
- THE SURVEYOR HAS MADE REASONABLE AND CUSTOMARY EFFORTS TO CORRECTLY IDENTIFY THE SIZE AND MATERIAL OF UNDERGROUND UTILITIES BASED UPON FIELD OBSERVATION AND RECORD INFORMATION. HOWEVER, NO CONFINED SPACE ENTRY WAS PERFORMED DURING THIS SURVEY. SIZE AND MATERIAL ARE SUBJECT TO CHANGE BASED ON MORE THOROUGH INSPECTION UTILIZING CONFINED SPACE ENTRY AND/OR EXPLORATORY EXCAVATION.
- NO PORTION OF THIS PROPERTY IS LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS SHOWN IN FLOOD INSURANCE RATE MAP NUMBER 3720542200K, EFFECTIVE DATE 11/3/2005.

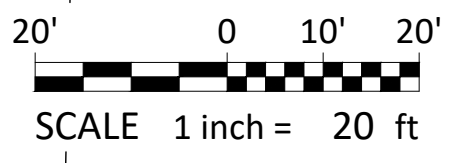
I, J. DANTZLER WITHERS, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIPTION REFERENCED HEREON); THAT ANY BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION REFERENCED HEREON; THAT THE RATIO OF PRECISION AS CALCULATED IS 1:17,963; THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56 .1600); THAT THIS SURVEY WAS PERFORMED TO MEET THE REQUIREMENTS FOR A TOPOGRAPHIC/PLANIMETRIC SURVEY TO THE ACCURACY OF CLASS A AND VERTICAL ACCURACY WHEN APPLICABLE TO THE CLASS A STANDARD AND THAT THE DATA WAS OBTAINED ON MAY 15-24, 2024; THAT THE SURVEY WAS COMPLETED ON JULY 9, 2024; THAT CONTOURS SHOWN AS BROKEN LINES MAY NOT MEET THE STATED STANDARD; AND ALL COORDINATES ARE BASED ON NAD83(2011) AND ALL ELEVATIONS ARE BASED ON NAVD88.

WITNESS MY ORIGINAL SIGNATURE AND SEAL THIS 9TH DAY OF JULY, 2024.

SIGNED: 

J. DANTZLER WITHERS

L-5508



BOUNDARY AND TOPOGRAPHICAL SURVEY FOR

MAYSVILLE FIRE STATION

City of Maysville, Maysville Township, Jones County, North Carolina

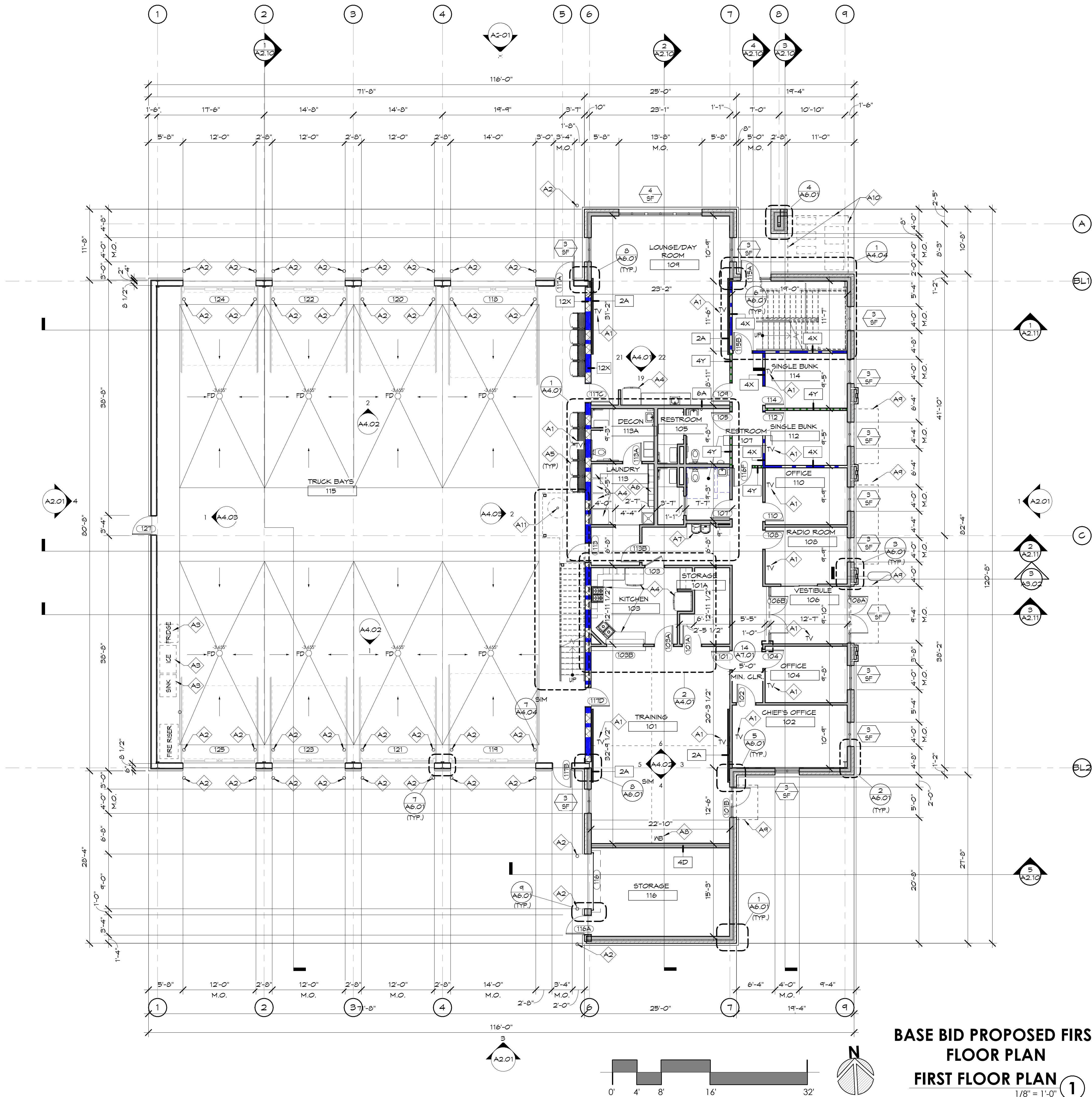
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SEAL
L-5508
J. DANTZLER WITHERS
LAND SURVEYOR

Project Manager:	JDW
Drawn By:	DRB
Checked By:	JDW
Project Number:	24113
Drawing Number:	D-1507

C7.0

Date: JULY 9, 2024



BASE BID PROPOSED FIRST FLOOR PLAN
FIRST FLOOR PLAN 1
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

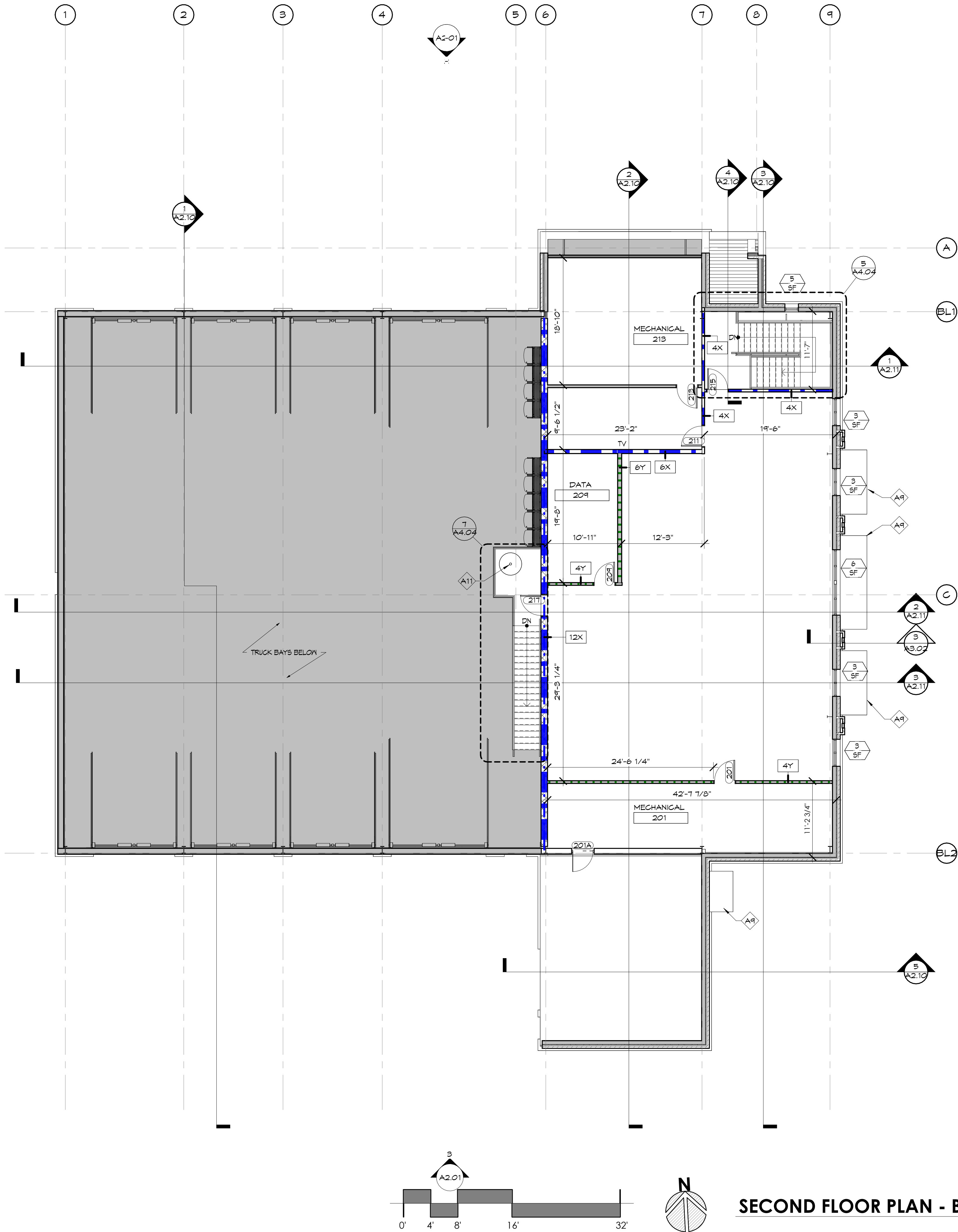
- 1. ALL FRAMES WITH DOORS: FRAME TYPE IS SHOWN ONLY IN DOOR SCHEDULE. (SEE SHEET A8.01)
- 2. ALL FRAMES WITHOUT DOORS: FRAME TYPE IS SHOWN IN PLAN.
- 3. "BL" COLUMN DESIGNATION INDICATES BUILDING LINE

KEY NOTES

- A1 – OWNER PROVIDED, CONTRACTOR INSTALLED TV AND WALL MOUNT, MOUNTED 48" TO CENTER OF TV. COORDINATE TV SIZES WITH OWNER. BOX FOR POWER AND DATA TO BE LOCATED ON TOP LEFT OF TV OUT OF THE MOUNT AREA.
- A2 – CONCRETE FILLED, STEEL TUBE BOLLARD, PAINTED SAFETY YELLOW.
- A3 – OWNER PROVIDED, CONTRACTOR INSTALLED EQUIPMENT/APPLIANCE.
- A4 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED EQUIPMENT/APPLIANCE.
- A5 – OWNER PROVIDED, CONTRACTOR INSTALLED LOCKERS IN TRUCK BAY.
- A6 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED PLASTIC LOCKERS IN LAUNDRY ROOM.
- A7 – HIGH/LOW WATER FOUNTAIN W/ BOTTLE FILLER. SEE PLUMBING DRAWINGS.
- A8 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED WHITE BOARD, REF. INTERIOR ELEVATIONS.
- A9 – PRE-MANUFACTURED ROD-HUNG CANOPY, COORDINATE WITH PEMB AND CFMF DELEGATED DESIGNS TO PROVIDE STRUCTURAL SUPPORTS/CONNECTIONS AND LOADING INFORMATION. BASIS-OF-DESIGN TO BE SELF-SUPPORTED MODEL 20 BY MCINTIRE BRASS WORKS INC. W/ SELF-CLOSING SHUTTERS, SAFETY KIT, AND WEIGHTED BASE PAD. **FIRE POLE TO BE PROVIDED AND INSTALLED AS PART OF ALTERNATE #3.** BASE BID TO INCLUDE PREP OF STAIR LANDING TO INSTALL FIRE POLE IN THE FUTURE, WITH STEEL COVER FOR FASTENED SECURELY TO LANDING IN THE INTERIM.
- A11 – FIRE POLE, CONTRACTOR PROVIDED, CONTRACTOR INSTALLED. COORDINATE WITH STAIR DELEGATED DESIGN TO PROVIDE STRUCTURAL SUPPORTS/CONNECTIONS AND LOADING INFORMATION. BASIS-OF-DESIGN TO BE SELF-SUPPORTED MODEL 20 BY MCINTIRE BRASS WORKS INC. W/ SELF-CLOSING SHUTTERS, SAFETY KIT, AND WEIGHTED BASE PAD. **FIRE POLE TO BE PROVIDED AND INSTALLED AS PART OF ALTERNATE #3.** BASE BID TO INCLUDE PREP OF STAIR LANDING TO INSTALL FIRE POLE IN THE FUTURE, WITH STEEL COVER FOR FASTENED SECURELY TO LANDING IN THE INTERIM.
- A12 – PREFINISHED ALUMINUM GUTTER.
- A13 – PREFINISHED ALUMINUM DOWNSPOUT, PIPED TO SUB-SURFACE DRAINAGE SYSTEM. SEE CIVIL.
- A14 – PRE-FINISHED ALUMINUM PARAPET CAP.
- A15 – LOW-SLOPE MEMBRANE ROOF SYSTEM, SINGLE SLOPE TO GRAVEL STOP EDGE WITH CONTINUOUS GUTTER AND DOWNSPOUTS AS SHOWN.
- A16 – STANDING SEAM METAL ROOF SYSTEM TO TYPICAL PEMB EAVE WITH CONTINUOUS GUTTER AND DOWNSPOUTS AS SHOWN.
- A17 – BRICK VENEER, STANDARD SIZE, RUNNING BOND. COLOR 1.
- A18 – GROUND FACE CMU VENEER, RUNNING BOND.
- A19 – GROUND FACE CMU, SPECIAL SHAPE SILL, PROVIDE BOND BREAK BETWEEN CMU AND BRICK.
- A20 – RECESS CMU, REFERENCE WALL SECTIONS AND DETAILS.
- A21 – 1'-4" TALL CAST ALUMINUM EXTERIOR SINGAGE, PIN-MOUNTED, ANCHORED TO CMU WITH EPOXY CEMENT, OR PER MANUF. RECOMMENDATIONS.
- A22 – SOLDIER COURSE BRICK VENEER.
- A23 – SOLDIER COURSE CMU ON ARCH. VARY GROUT JOINTS TO ACHIEVE ARCH.
- A24 – STOREFRONT FRAMING AND GLASS AS SCHEDULED.
- A25 – WALL SCONE LIGHT FIXTURE AS SCHEDULED, SEE ELECTRICAL DRAWINGS.
- A26 – DOOR AND FRAME AS SCHEDULED.
- A27 – PEMB WALL PANEL SYSTEM, JOINTS TO RUN VERTICALLY.
- A28 – LOUVER AS SCHEDULED.
- A29 – OVERHEAD SECTIONAL DOOR AS SCHEDULED.
- A30 – OVERHEAD COILING DOOR AS SCHEDULED.
- A31 – BRICK VENEER, STANDARD SIZE, RUNNING BOND. COLOR 2 (SIM TO CMU COLOR).

REVISIONS:

#	DESC.	DATE
---	-------	------



FLOOR PLAN GENERAL NOTES

1. ALL FRAMES **WITH** DOORS: FRAME TYPE IS SHOWN ONLY IN DOOR SCHEDULE. (SEE SHEET A8.01)
2. ALL FRAMES **WITHOUT** DOORS: FRAME TYPE IS SHOWN IN PLAN.
3. "BL" COLUMN DESIGNATION INDICATES BUILDING LINE

KEY NOTES

- A1 – OWNER PROVIDED, CONTRACTOR INSTALLED TV AND WALL MOUNT, MOUNTED 48" TO CENTER OF TV, COORDINATE TV SIZES WITH OWNER, BOX FOR POWER AND DATA TO BE LOCATED ON TOP LEFT OF TV OUT OF THE MOUNT AREA.
- A2 – CONCRETE FILLED, STEEL TUBE BOLLARD, PAINTED SAFETY YELLOW.
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- A5 – OWNER PROVIDED, CONTRACTOR INSTALLED LOCKERS IN TRUCK BAY.
- A6 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED PLASTIC LOCKERS IN LAUNDRY ROOM.
- A7 – HIGH/LOW WATER FOUNTAIN W/ BOTTLE FILLER. SEE PLUMBING DRAWINGS.
- A8 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED WHITE BOARD, REF. INTERIOR ELEVATIONS.
- A9 – PRE-MANUFACTURED ROD-HUNG CANOPY, COORDINATE WITH PEMB AND CFMF DELEGATED DESIGNS TO PROVIDE STRUCTURAL SUPPORTS/CONNECTIONS AND LOADING INFORMATION.
- A10 – 5' TALL CHAIN LINK FENCE W/ VINYL INSERTS AROUND MECHANICAL YARD, PROVIDE MIN. 4' SWINGING WIDE GATE ON ONE SIDE TO ACCESS INSIDE OF YARD.
- A11 – FIRE POLE, CONTRACTOR PROVIDED, CONTRACTOR INSTALLED, COORDINATE WITH STAIR DELEGATED DESIGN TO PROVIDE STRUCTURAL SUPPORTS/CONNECTIONS AND LOADING INFORMATION. BASIS-OF-DESIGN TO BE SELF-SUPPORTED MODEL 20 BY MCINTIRE BRASS WORKS INC. W/ SELF-CLOSING SHUTTERS, SAFETY KIT, AND WEIGHTED BASE PAD. **FIRE POLE TO BE PROVIDED AND INSTALLED AS PART OF ALTERNATE #3.** BASE BID TO INCLUDE PREP OF STAIR LANDING TO INSTALL FIRE POLE IN THE FUTURE, WITH STEEL COVER FOR FASTENED SECURELY TO LANDING IN THE INTERIM.
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- A13 – PREFINISHED ALUMINUM DOWNSPOUT, PIPED TO SUB-SURFACE DRAINAGE SYSTEM. SEE CIVIL.
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- A19 – GROUND FACE CMU, SPECIAL SHAPE SILL, PROVIDE BOND BREAK BETWEEN CMU AND BRICK.
- A20 – RECESS CMU, REFERENCE WALL SECTIONS AND DETAILS.
- A21 – 1'-4" TALL CAST ALUMINUM EXTERIOR SINGAGE, PIN-MOUNTED, ANCHORED TO CMU WITH EPOXY CEMENT, OR PER MANUF. RECOMMENDATIONS.
- A22 – SOLDIER COURSE BRICK VENEER.
- A23 – SOLDIER COURSE CMU ON ARCH. VARY GROUT JOINTS TO ACHIEVE ARCH.
- A24 – STOREFRONT FRAMING AND GLASS AS SCHEDULED.
- A25 – WALL SCENE LIGHT FIXTURE AS SCHEDULED, SEE ELECTRICAL DRAWINGS.
- A26 – DOOR AND FRAME AS SCHEDULED.
- A27 – PEMB WALL PANEL SYSTEM, JOINTS TO RUN VERTICALLY.
- A28 – LOUVER AS SCHEDULED.
- A29 – OVERHEAD SECTIONAL DOOR AS SCHEDULED.
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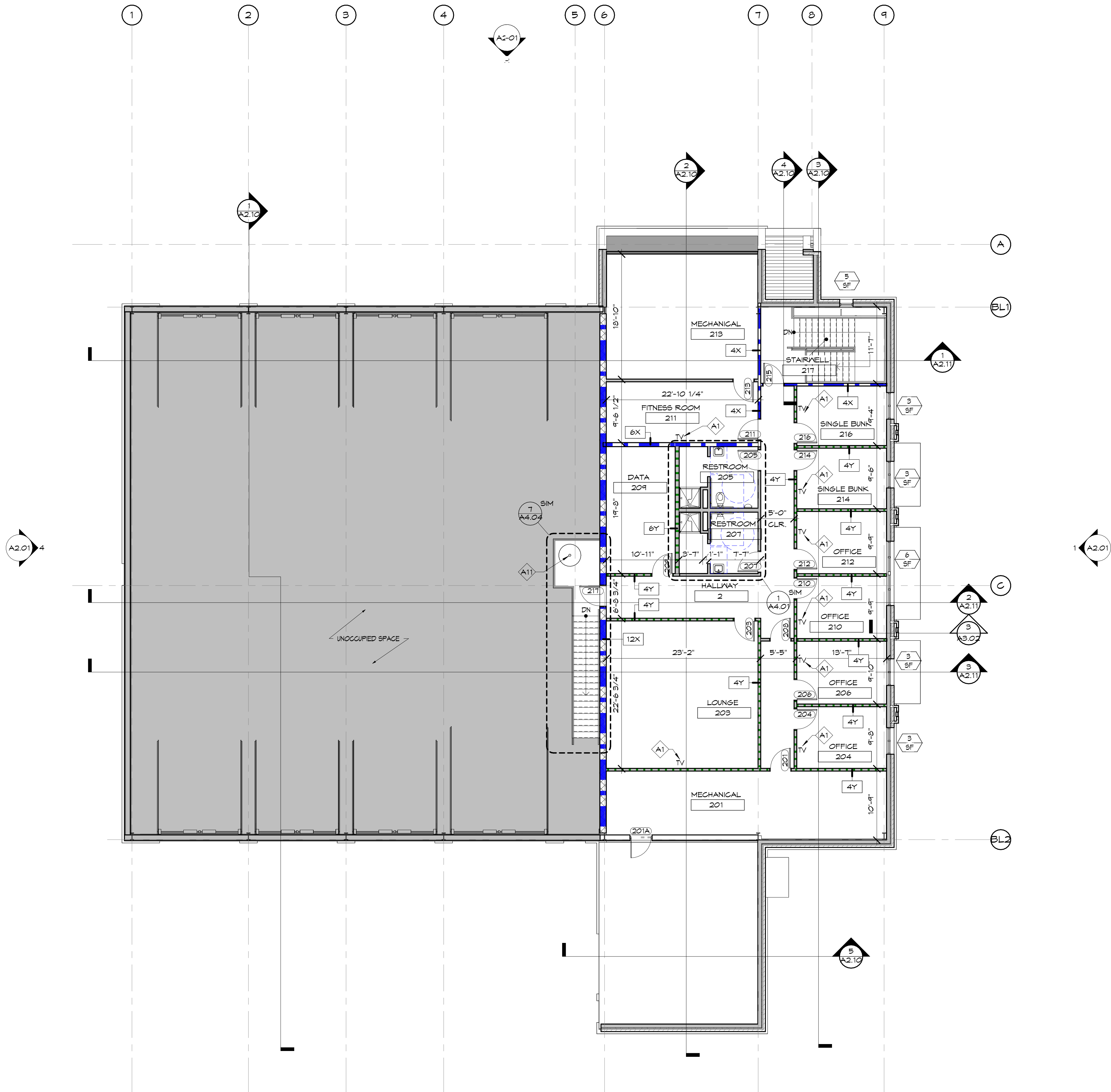
SHEET NAME & NUMBER
SECOND FLOOR PLAN - BASE BID

A1.02

SECOND FLOOR PLAN - BASE BID

1/8" = 1'-0"

1



FLOOR PLAN GENERAL NOTES

1. ALL FRAMES **WITH** DOORS: FRAME TYPE IS SHOWN ONLY IN DOOR SCHEDULE. (SEE SHEET A8.01)
2. ALL FRAMES **WITHOUT** DOORS: FRAME TYPE IS SHOWN IN PLAN.
3. "BL" COLUMN DESIGNATION INDICATES BUILDING LINE

KEY NOTES

- A1 – OWNER PROVIDED, CONTRACTOR INSTALLED TV AND WALL MOUNT. MOUNTED 48" TO CENTER OF TV. COORDINATE TV SIZES WITH OWNER. BOX FOR POWER AND DATA TO BE LOCATED ON TOP LEFT OF TV OUT OF THE MOUNT AREA.
- A2 – CONCRETE FILLED, STEEL TUBE BOLLARD, PAINTED SAFETY YELLOW.
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- A4 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED EQUIPMENT/APPLIANCE.
- A5 – OWNER PROVIDED, CONTRACTOR INSTALLED LOCKERS IN TRUCK BAY.
- A6 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED PLASTIC LOCKERS IN LAUNDRY ROOM.
- A7 – HIGH/LOW WATER FOUNTAIN W/ BOTTLE FILLER. SEE PLUMBING DRAWINGS.
- A8 – CONTRACTOR PROVIDED, CONTRACTOR INSTALLED WHITE BOARD. REF. INTERIOR ELEVATIONS.
- A9 – PRE-MANUFACTURED ROD-HUNG CANOPY. COORDINATE WITH PEMB AND CFMF DELEGATED DESIGNS TO PROVIDE STRUCTURAL SUPPORTS/CONNECTIONS AND LOADING INFORMATION. A10 – 5' TALL CHAIN LINK FENCE W/ VINYL INSERTS AROUND MECHANICAL YARD. PROVIDE MIN. 4' SWINGING WIDE GATE ON ONE SIDE TO ACCESS INSIDE OF YARD.
- A11 – FIRE POLE, CONTRACTOR PROVIDED, CONTRACTOR INSTALLED. COORDINATE WITH STAIR DELEGATED DESIGN TO PROVIDE STRUCTURAL SUPPORTS/CONNECTIONS AND LOADING INFORMATION. BASIS-OF-DESIGN TO BE SELF-SUPPORTED MODEL 20 BY MCINTIRE BRASS WORKS INC. W/ SELF-CLOSING SHUTTERS, SAFETY KIT, AND WEIGHTED BASE PAD. **FIRE POLE TO BE PROVIDED AND INSTALLED AS PART OF ALTERNATE #3.** BASE BID TO INCLUDE PREP OF STAIR LANDING TO INSTALL FIRE POLE IN THE FUTURE. WITH STEEL COVER FOR FASTENED SECURELY TO LANDING IN THE INTERIM.
- A12 – PREFINISHED ALUMINUM GUTTER.
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- A14 – PRE-FINISHED ALUMINUM PARAPET CAP.
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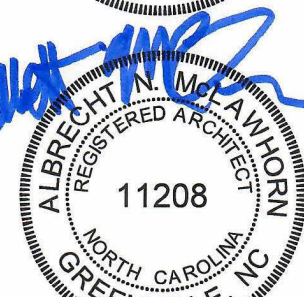
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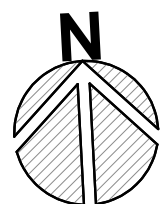
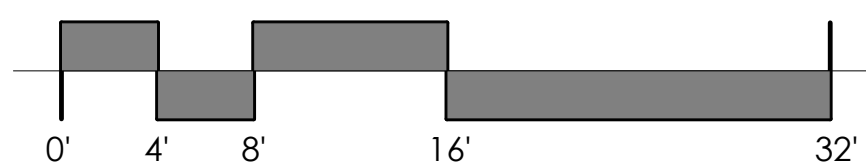
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2ND FLOOR PLAN - ALTERNATE
#1

A1.03



2ND FLOOR PLAN -ALTERNATE #1

1/8" = 1'-0"

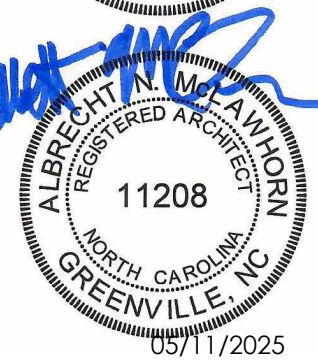
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ROOF PLAN

A1.04

FLOOR PLAN GENERAL NOTES

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2. ALL FRAMES WITHOUT DOORS: FRAME TYPE IS SHOWN IN PLAN.
3. "BL" COLUMN DESIGNATION INDICATES BUILDING LINE

KEY NOTES

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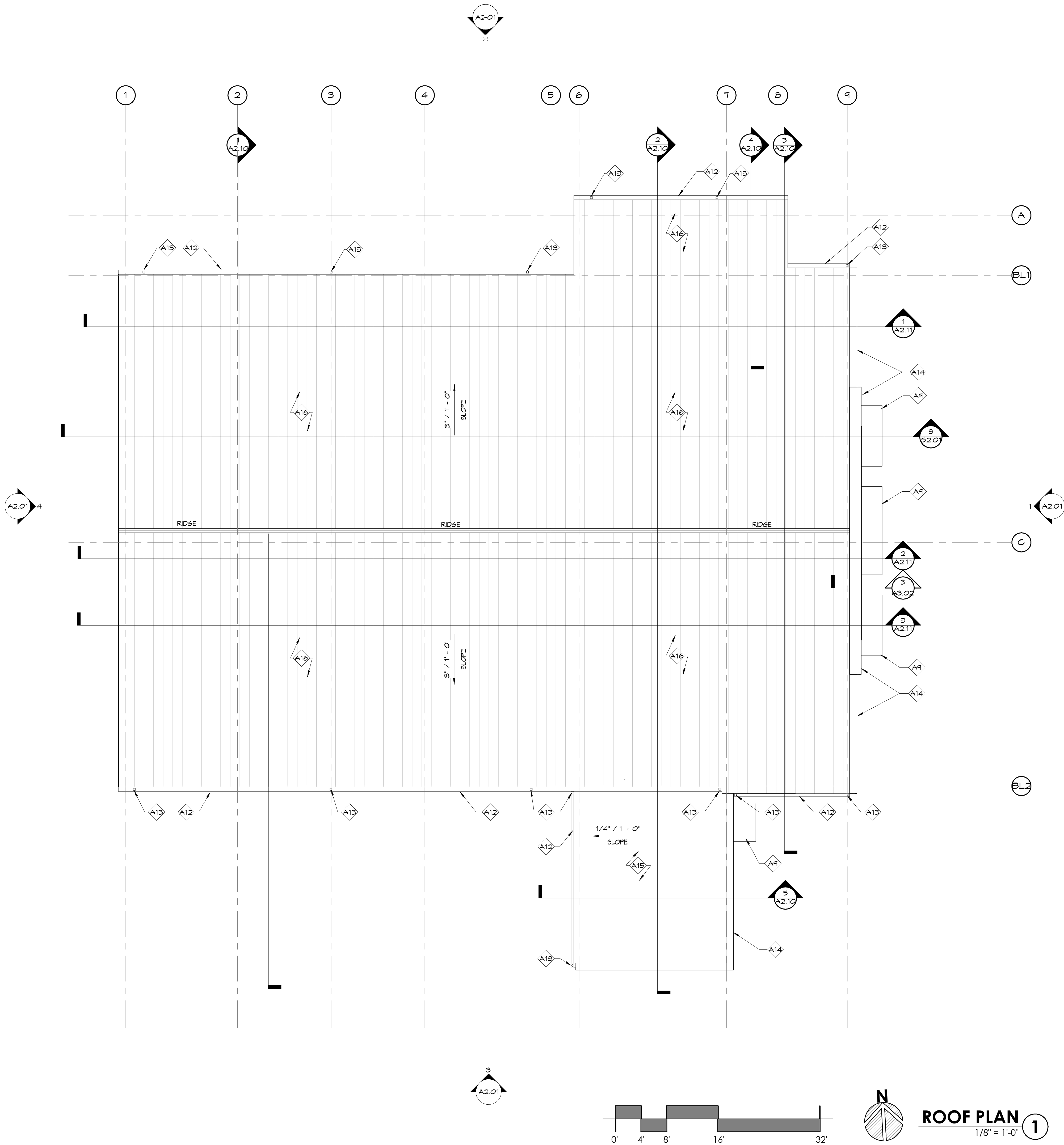
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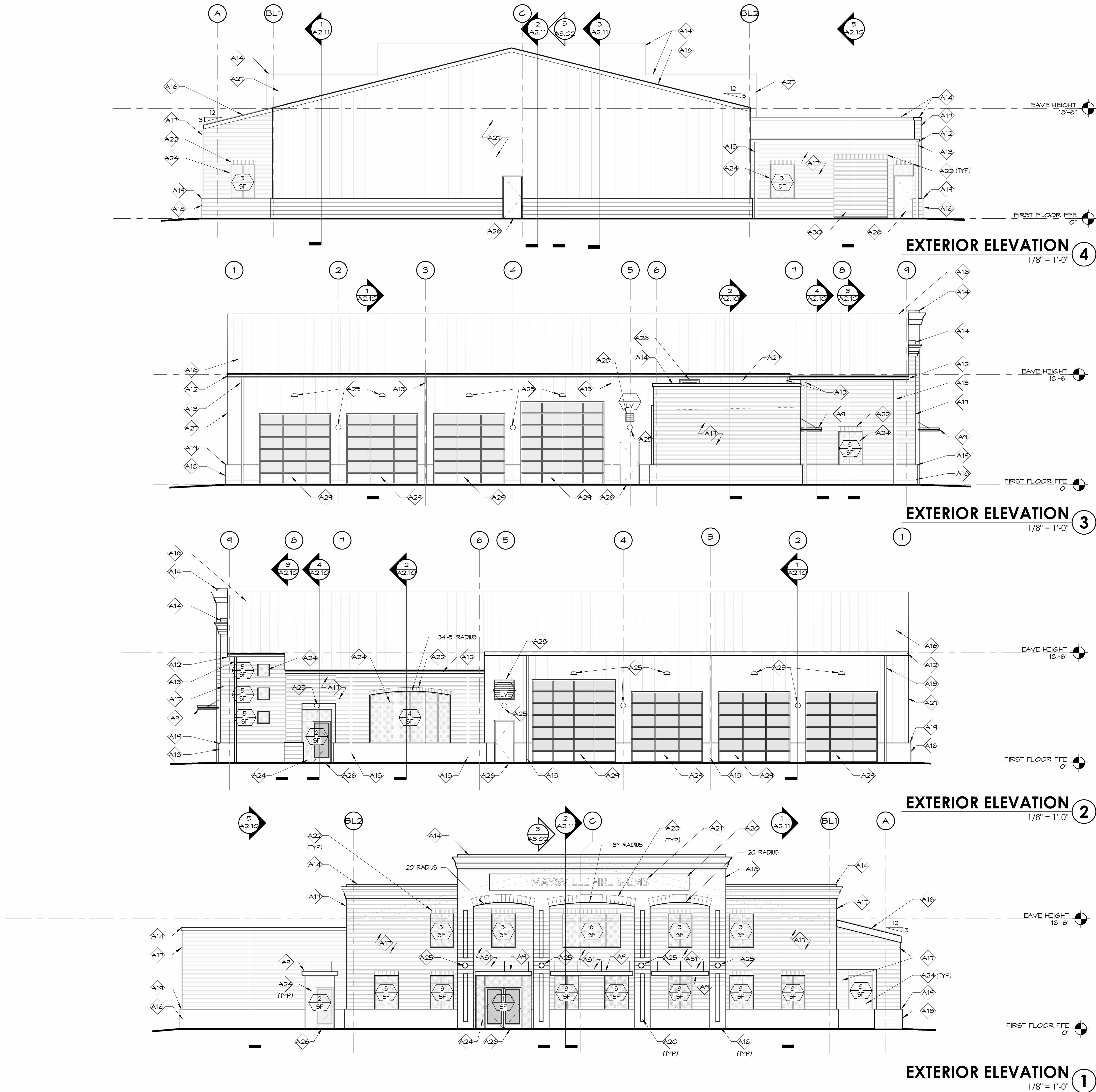
A31 – BRICK VENEER, STANDARD SIZE, RUNNING BOND. COLOR 2 (SIM TO CMU COLOR).



ROOF PLAN

1/8" = 1'-0"

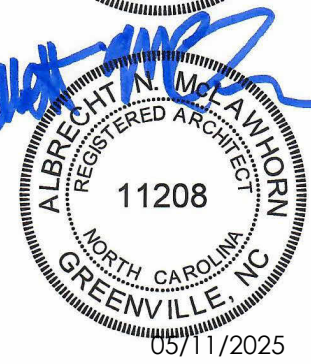
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EXTERIOR ELEVATION

A2.01



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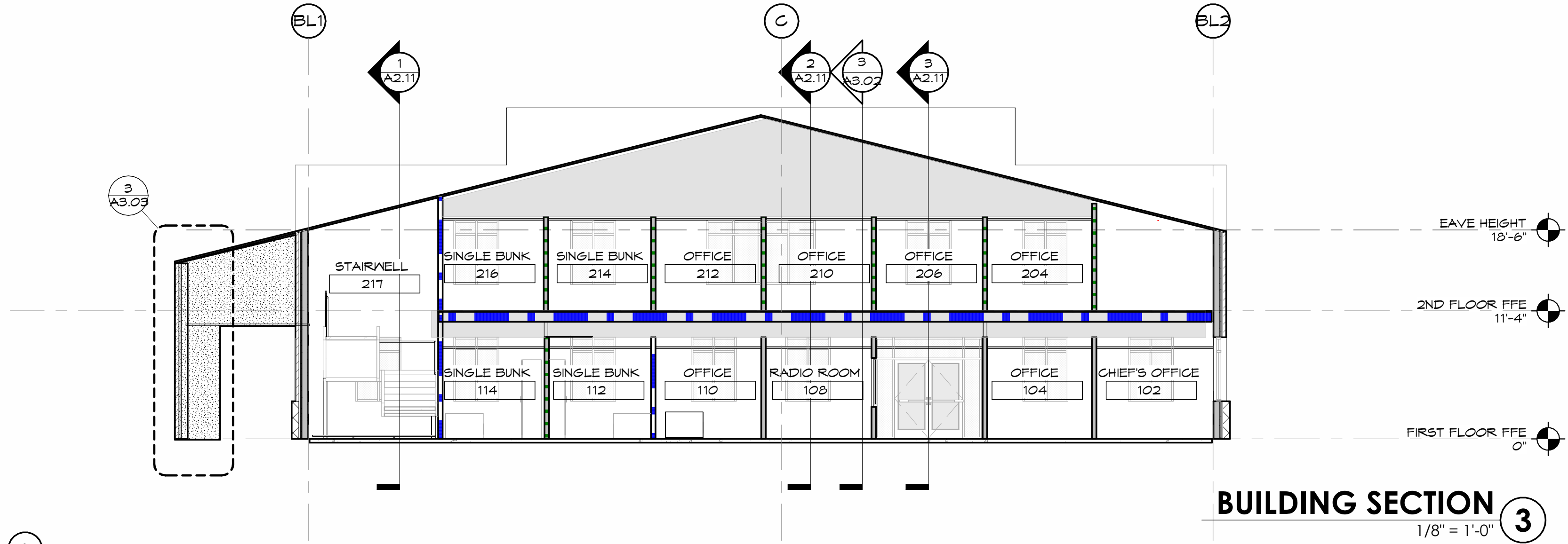
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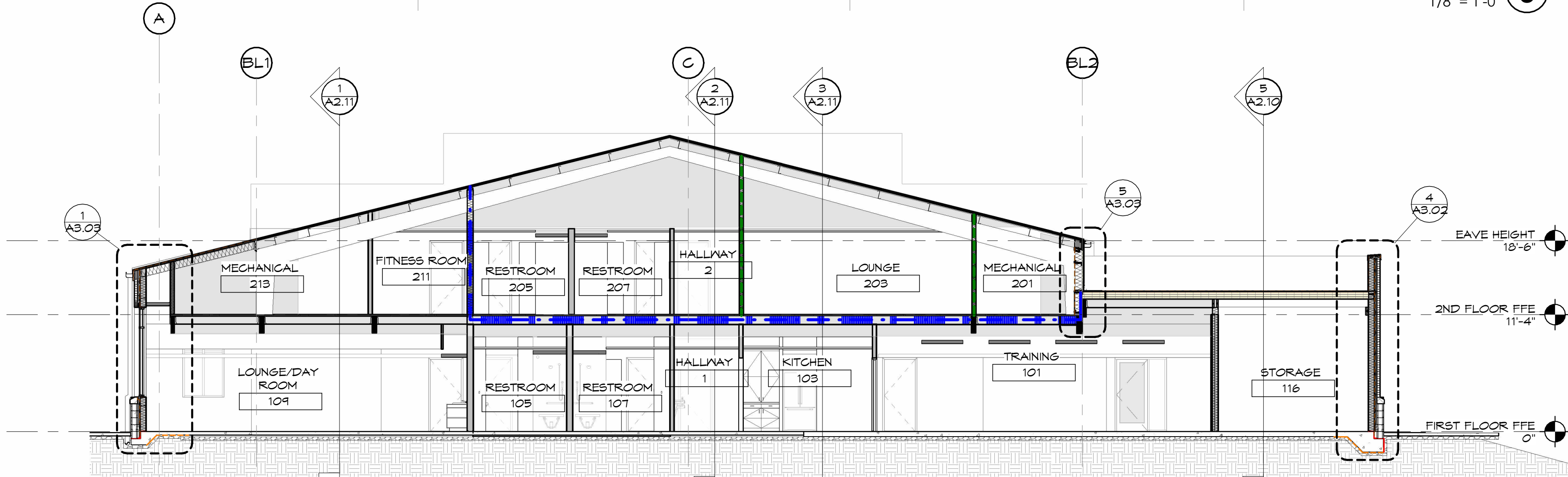
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BUILDING SECTIONS

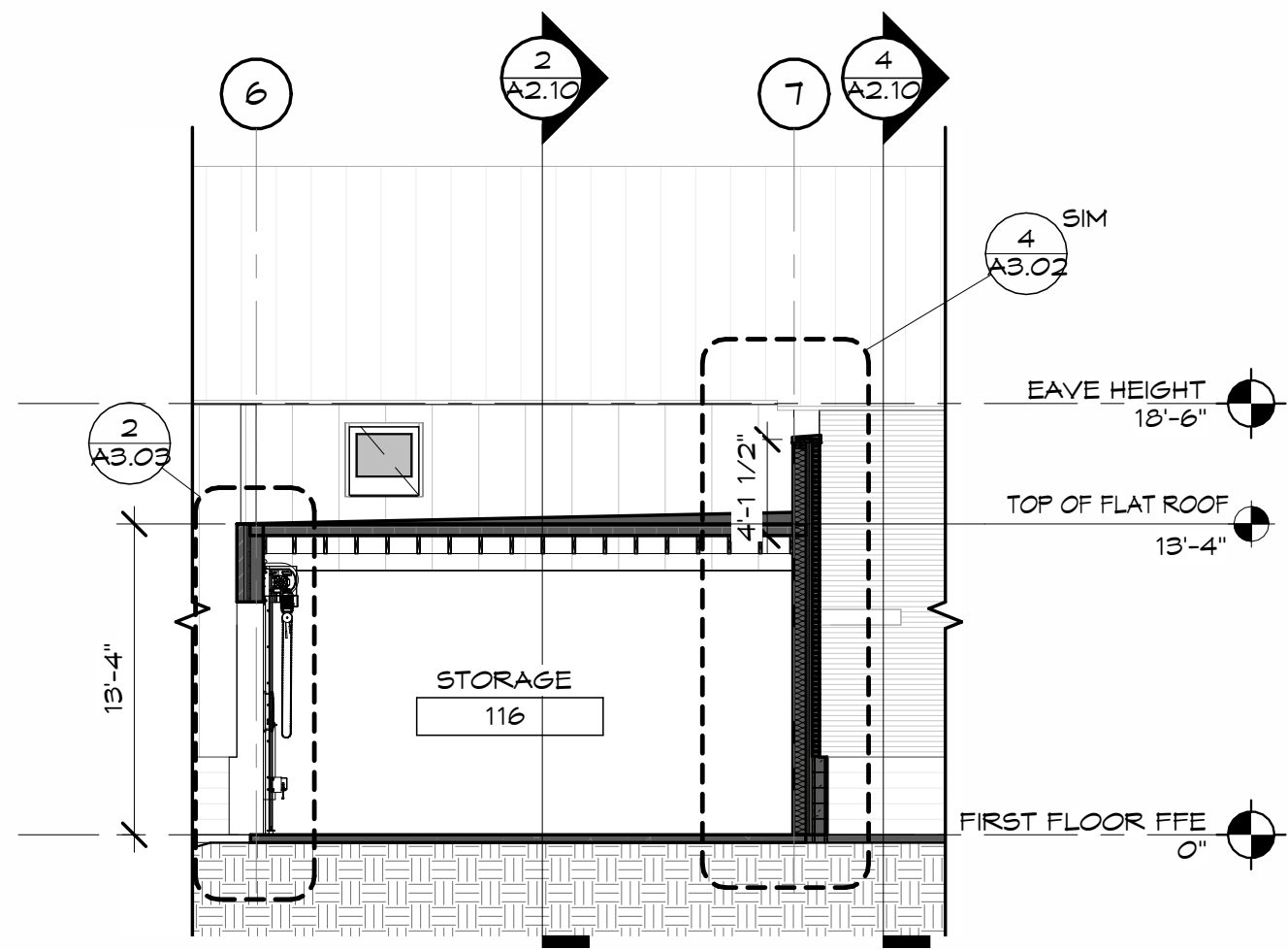
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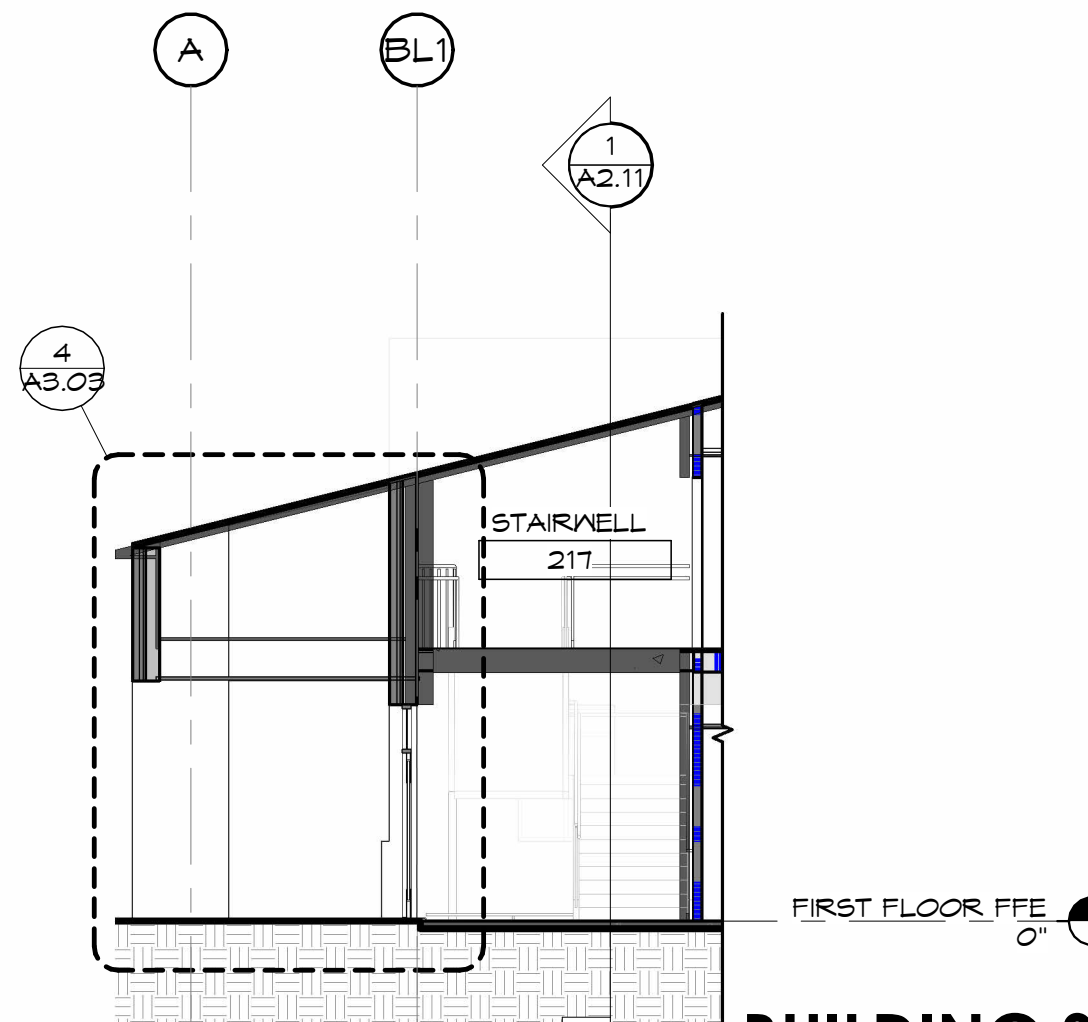
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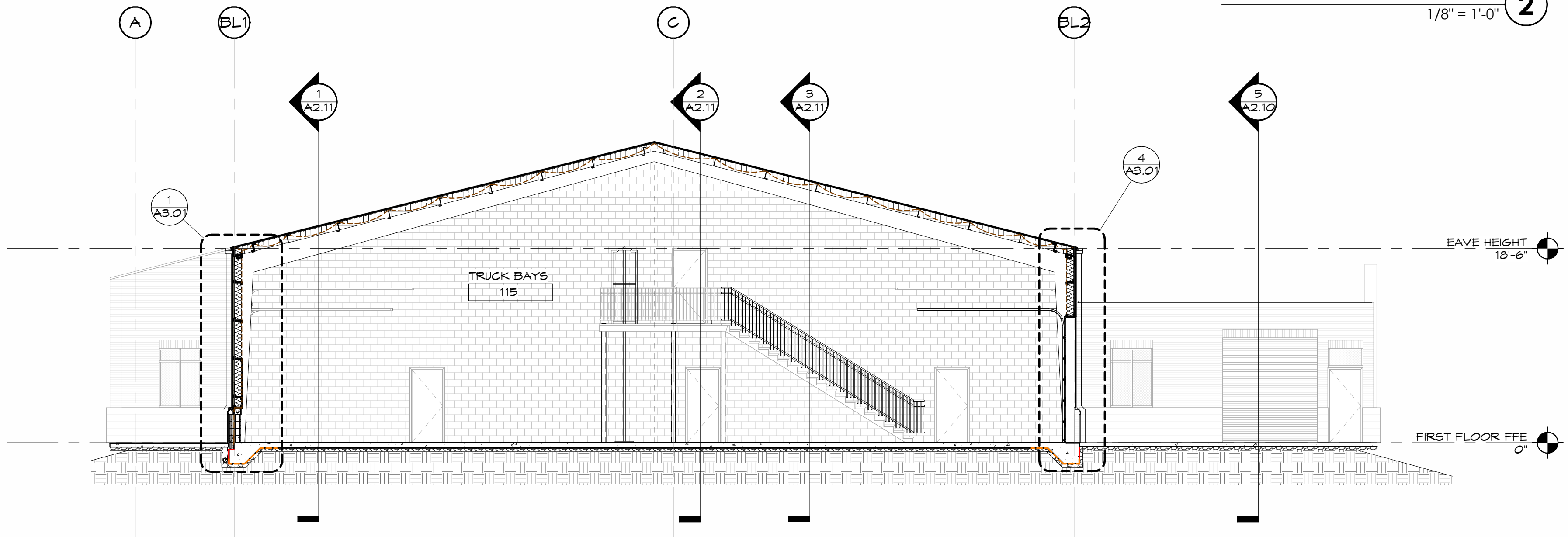
BUILDING SECTION 2
1/8" = 1'-0"



Section 15
1/8" = 1'-0"



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



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



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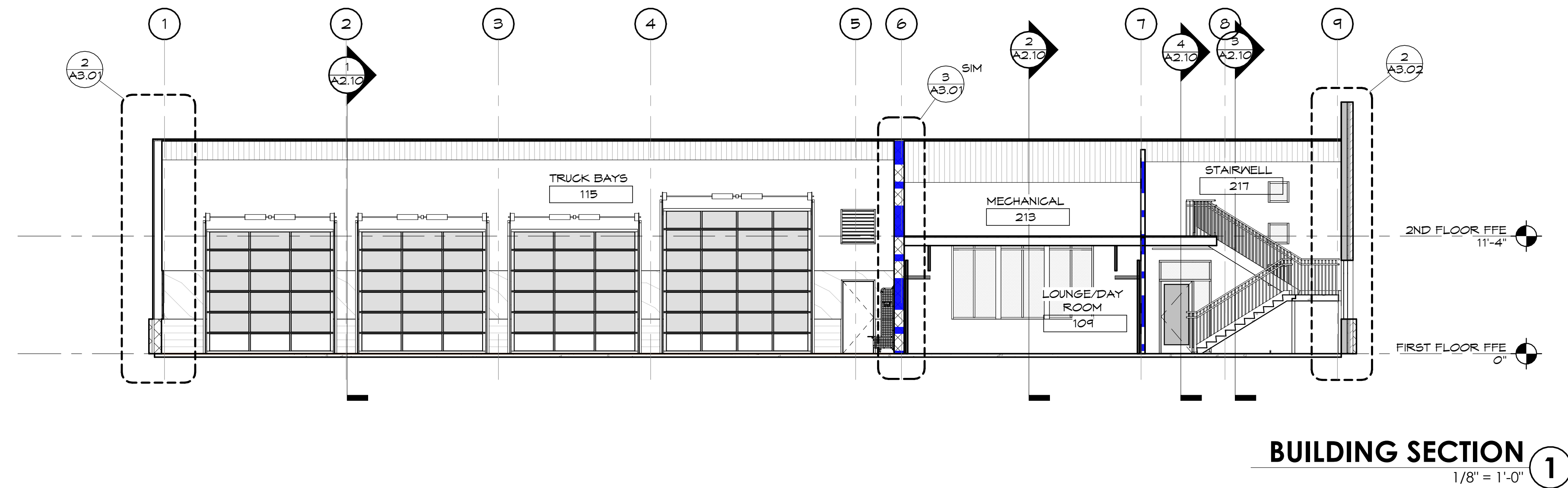
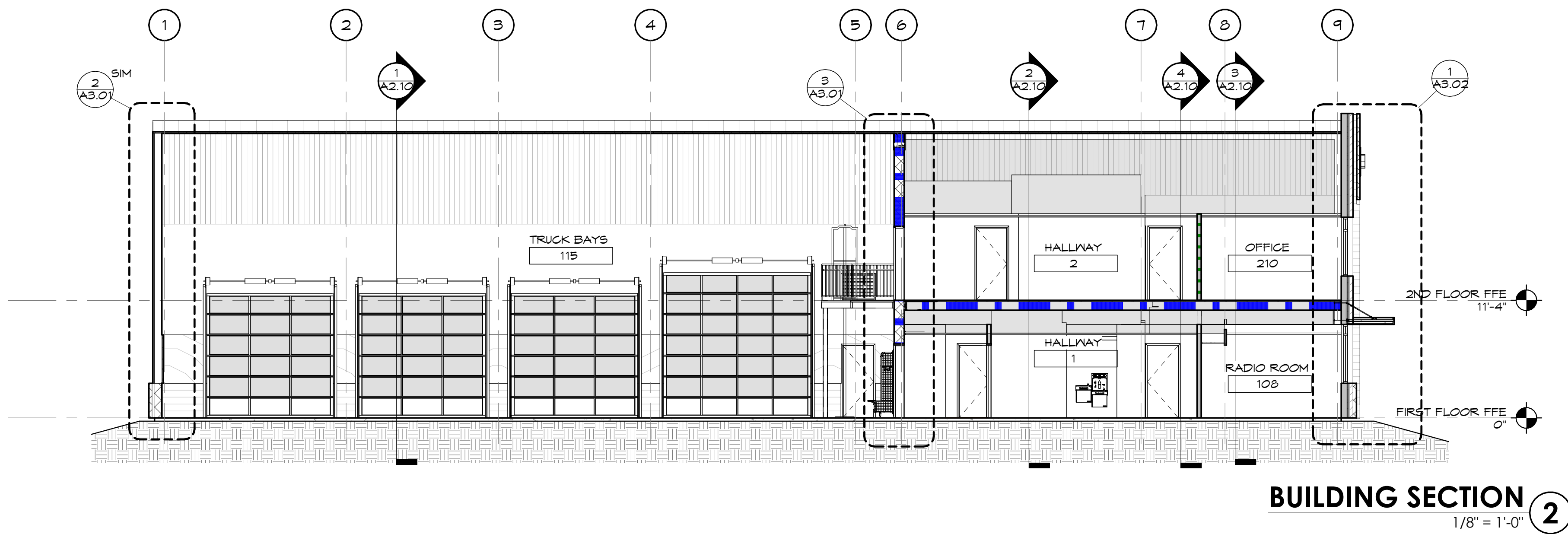
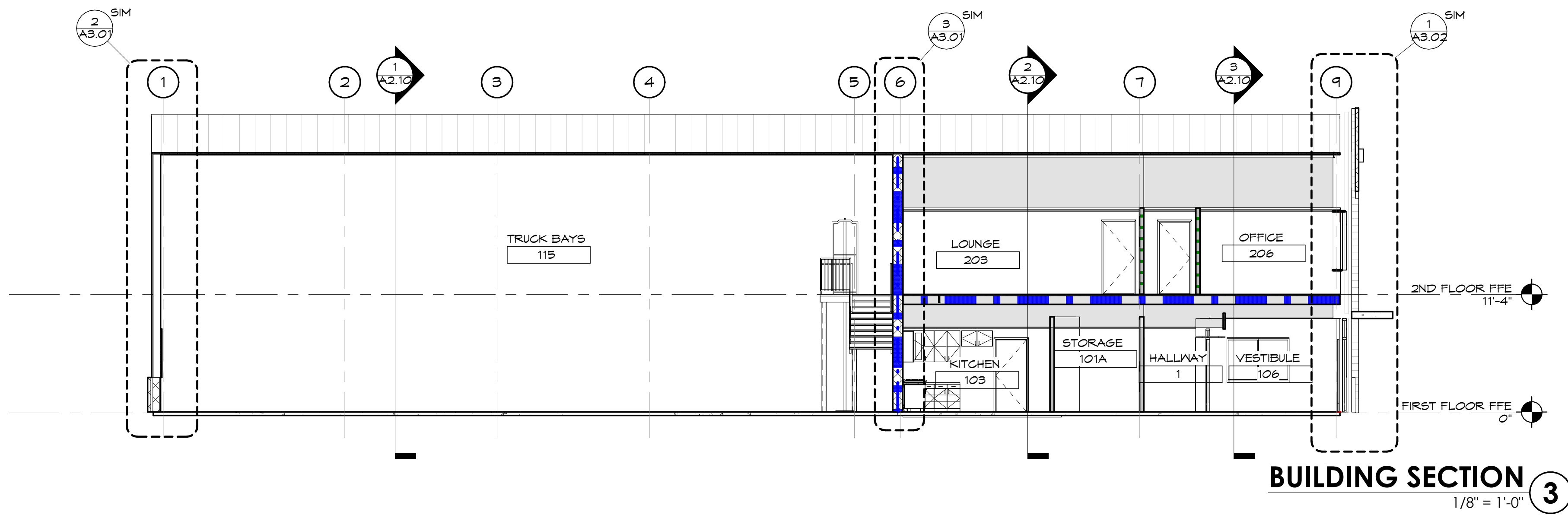
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BUILDING SECTIONS

A2.11





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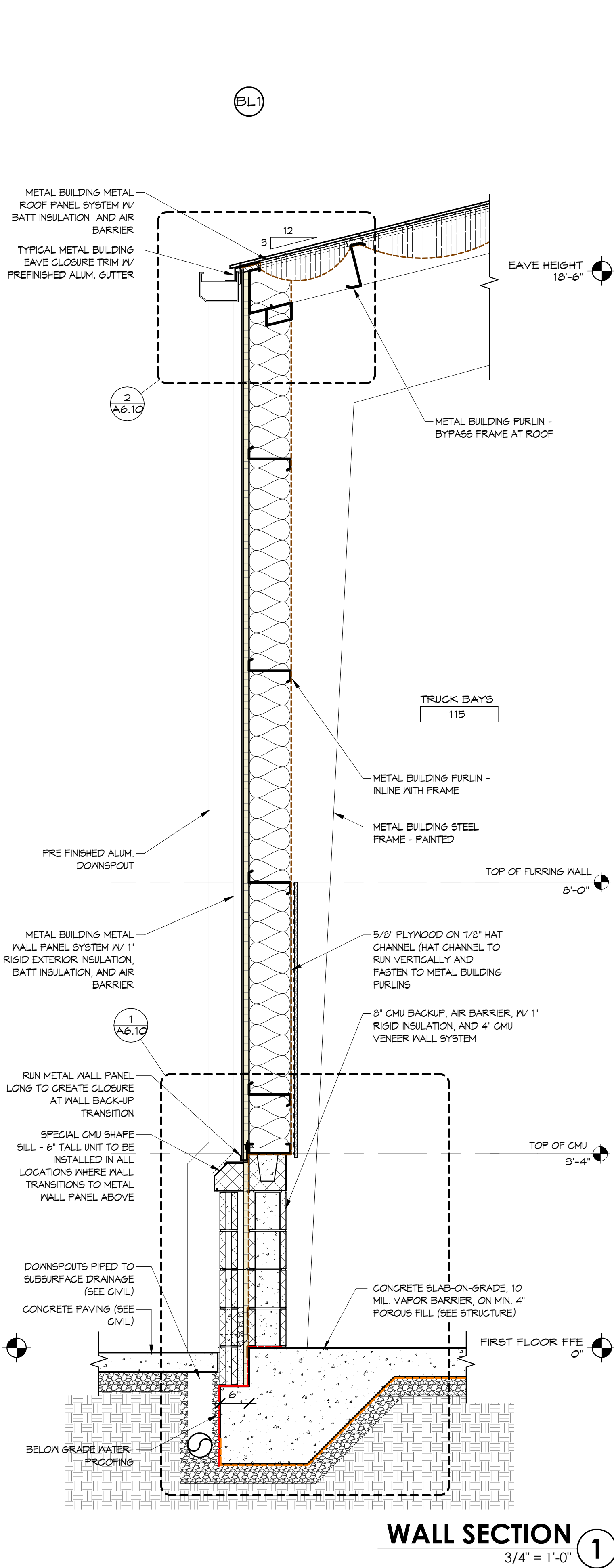
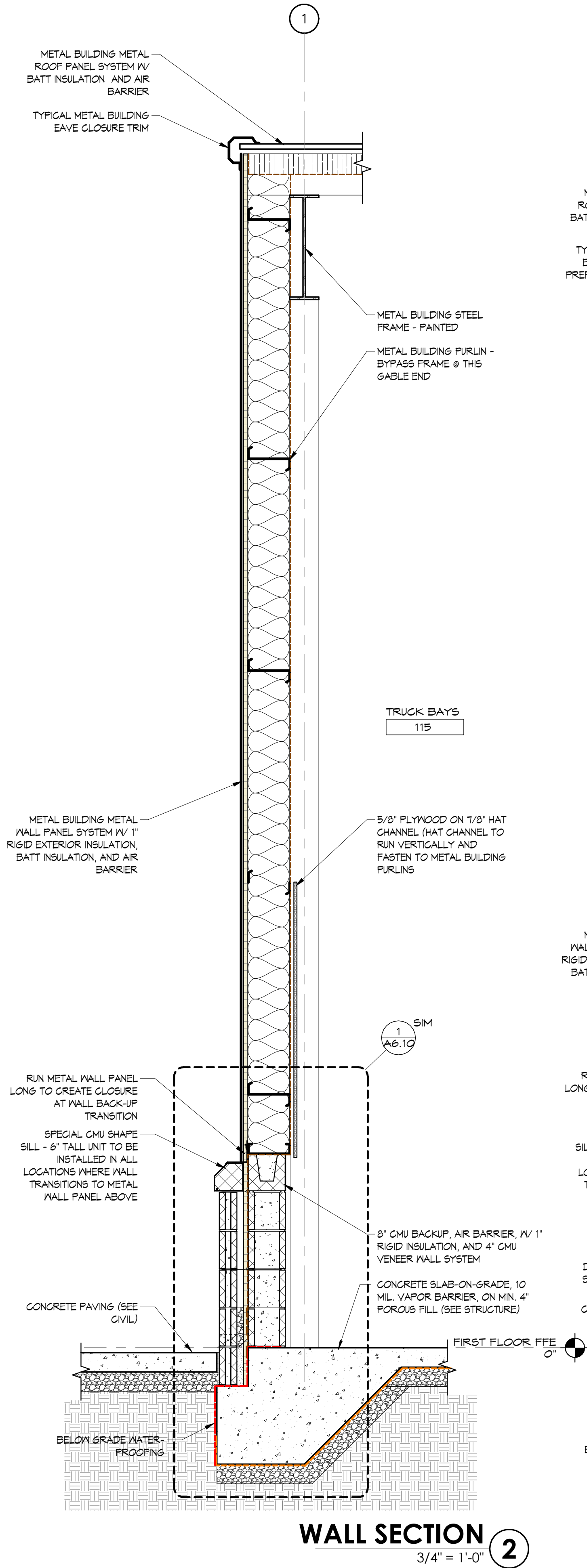
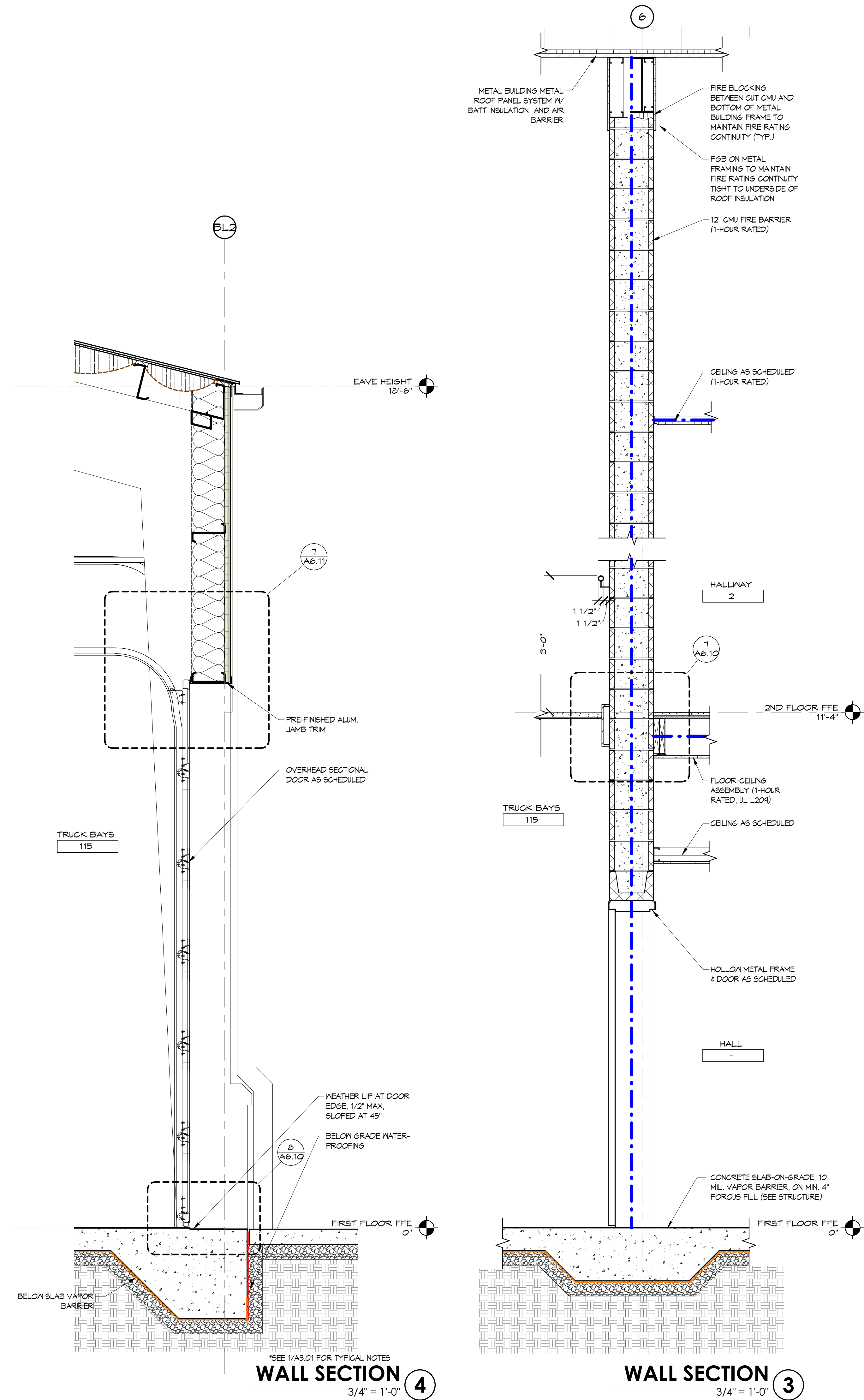


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WALL SECTIONS

A3.01





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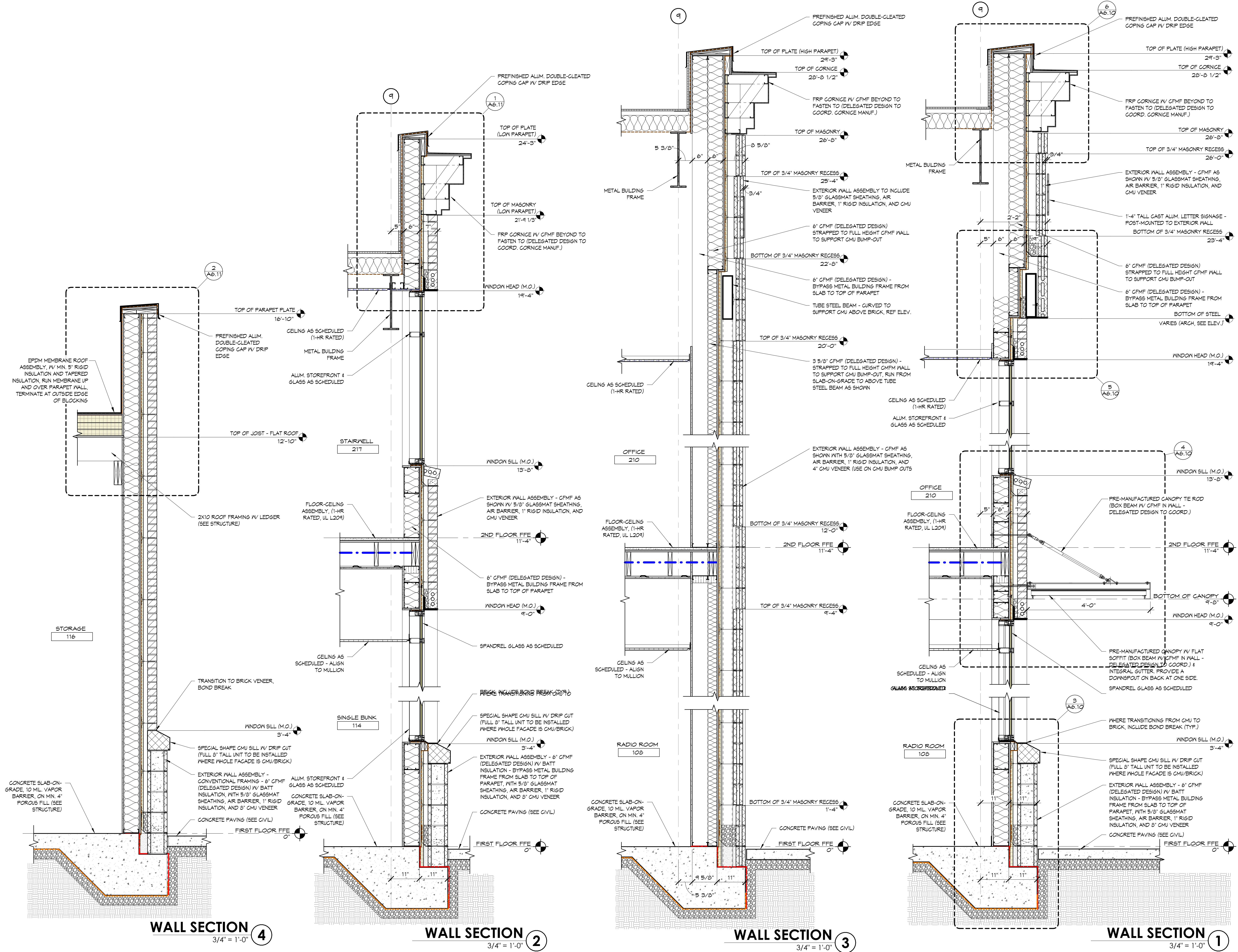
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WALL SECTIONS

A3.02





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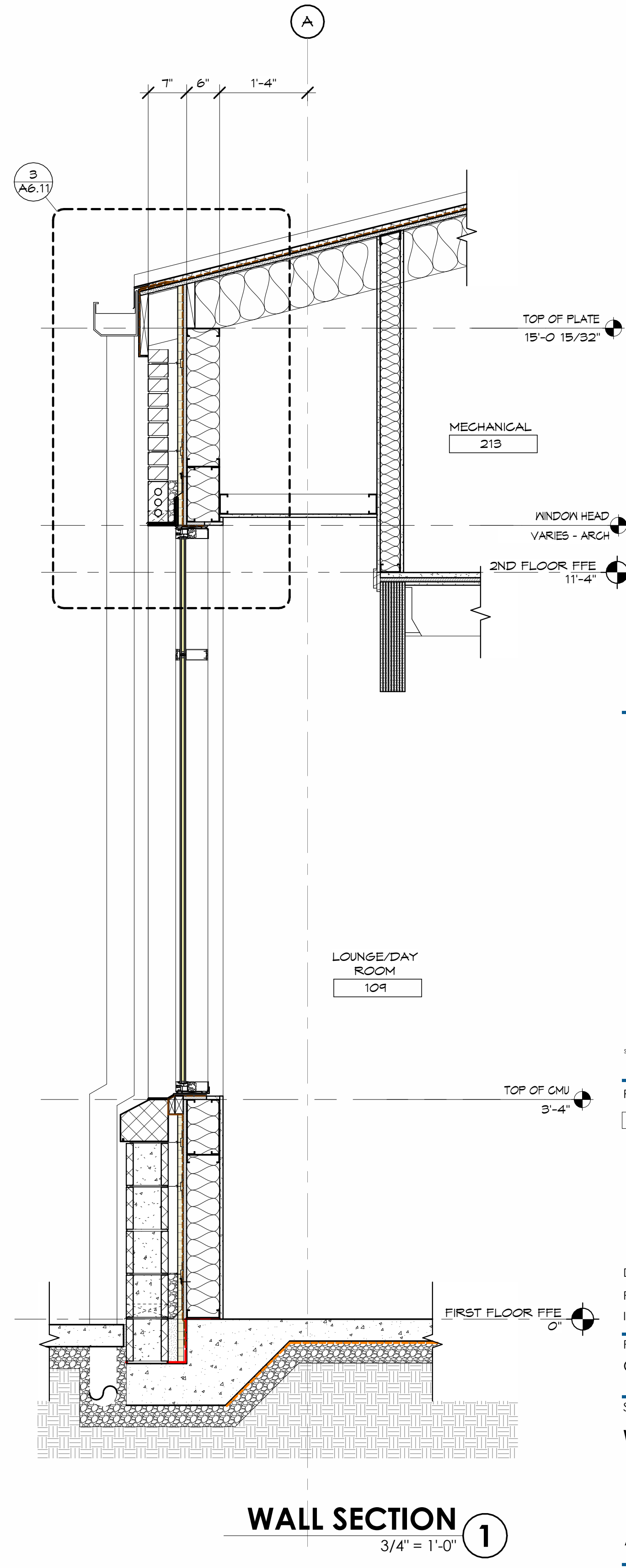
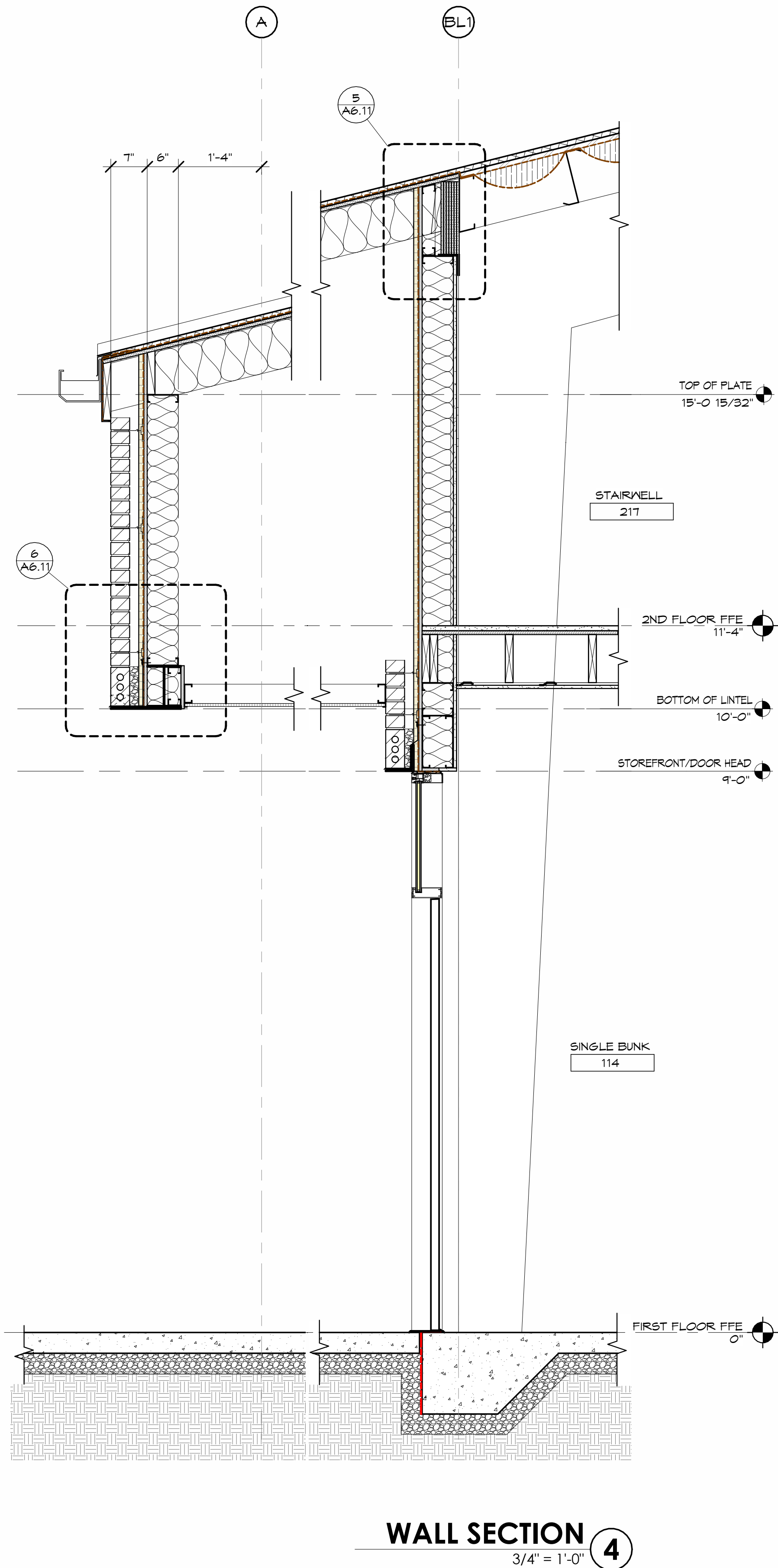
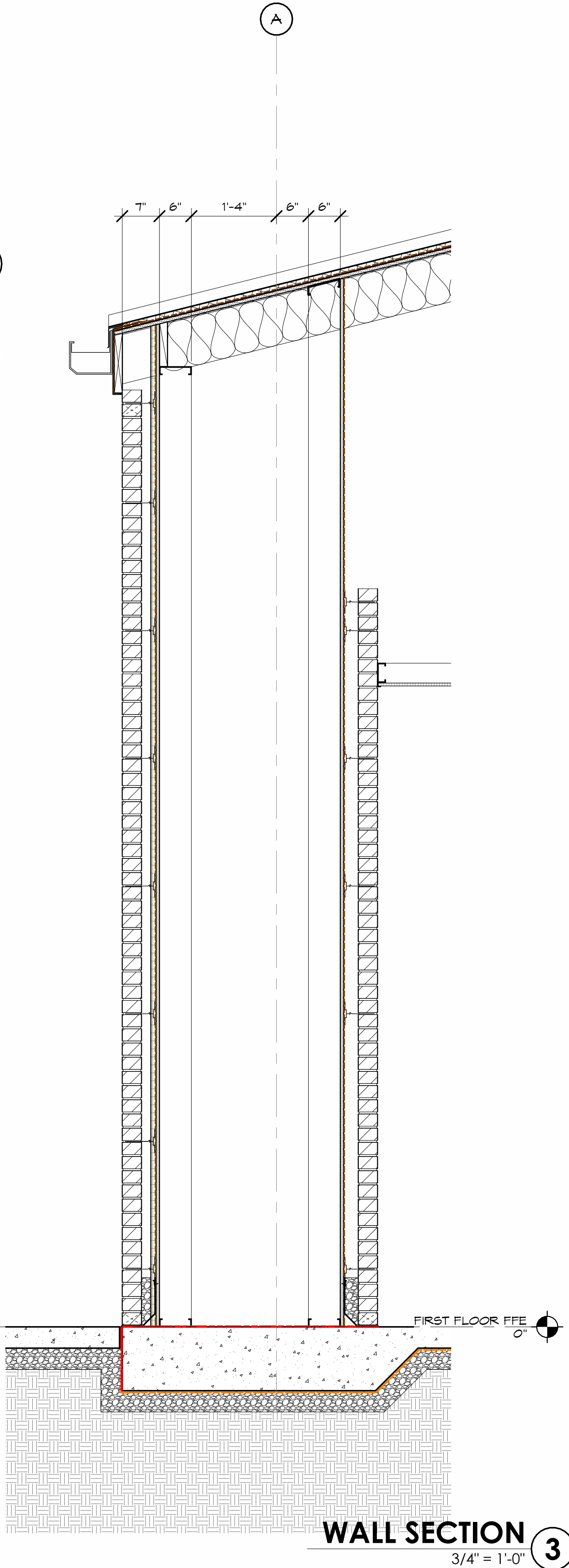
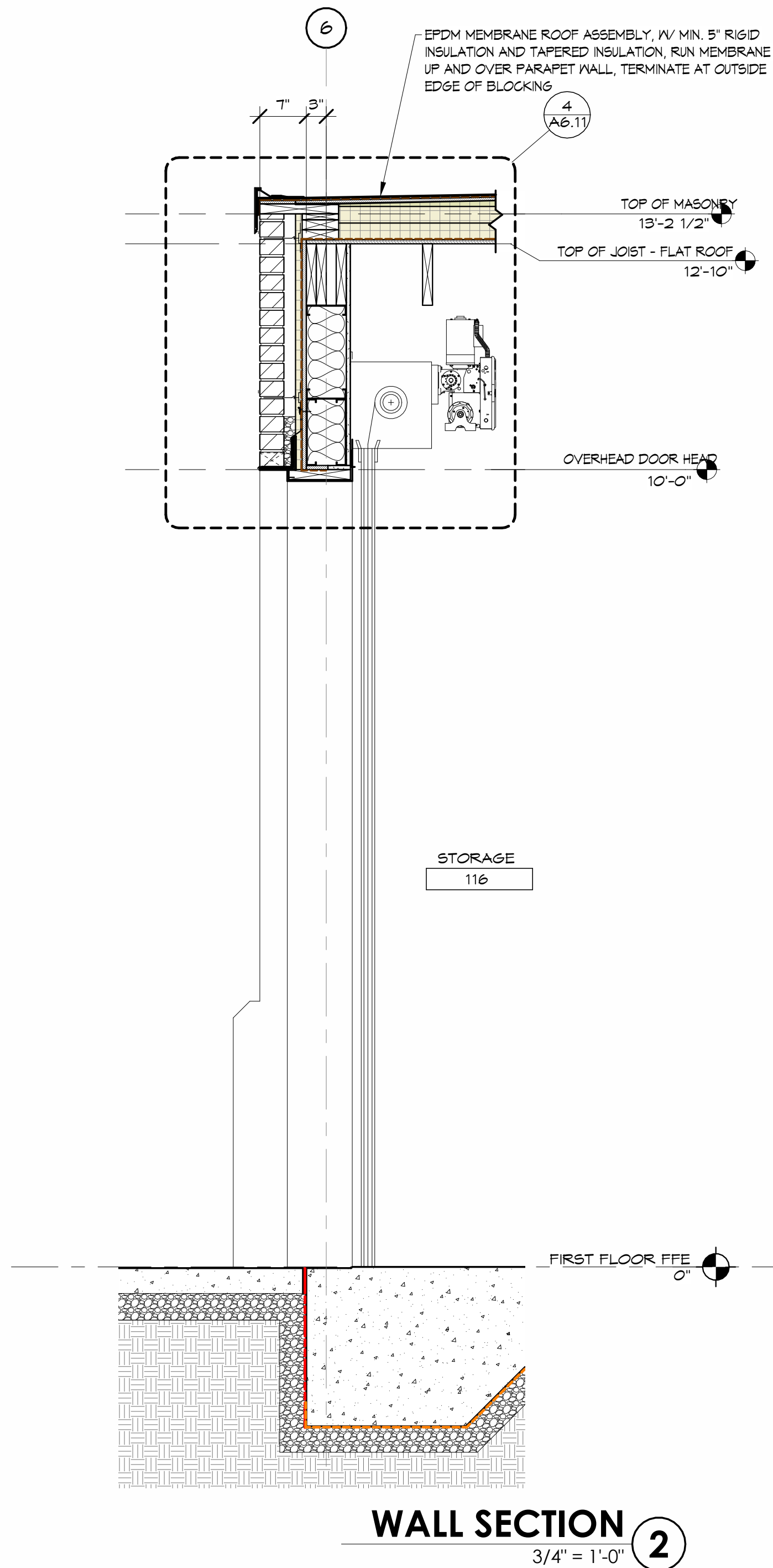
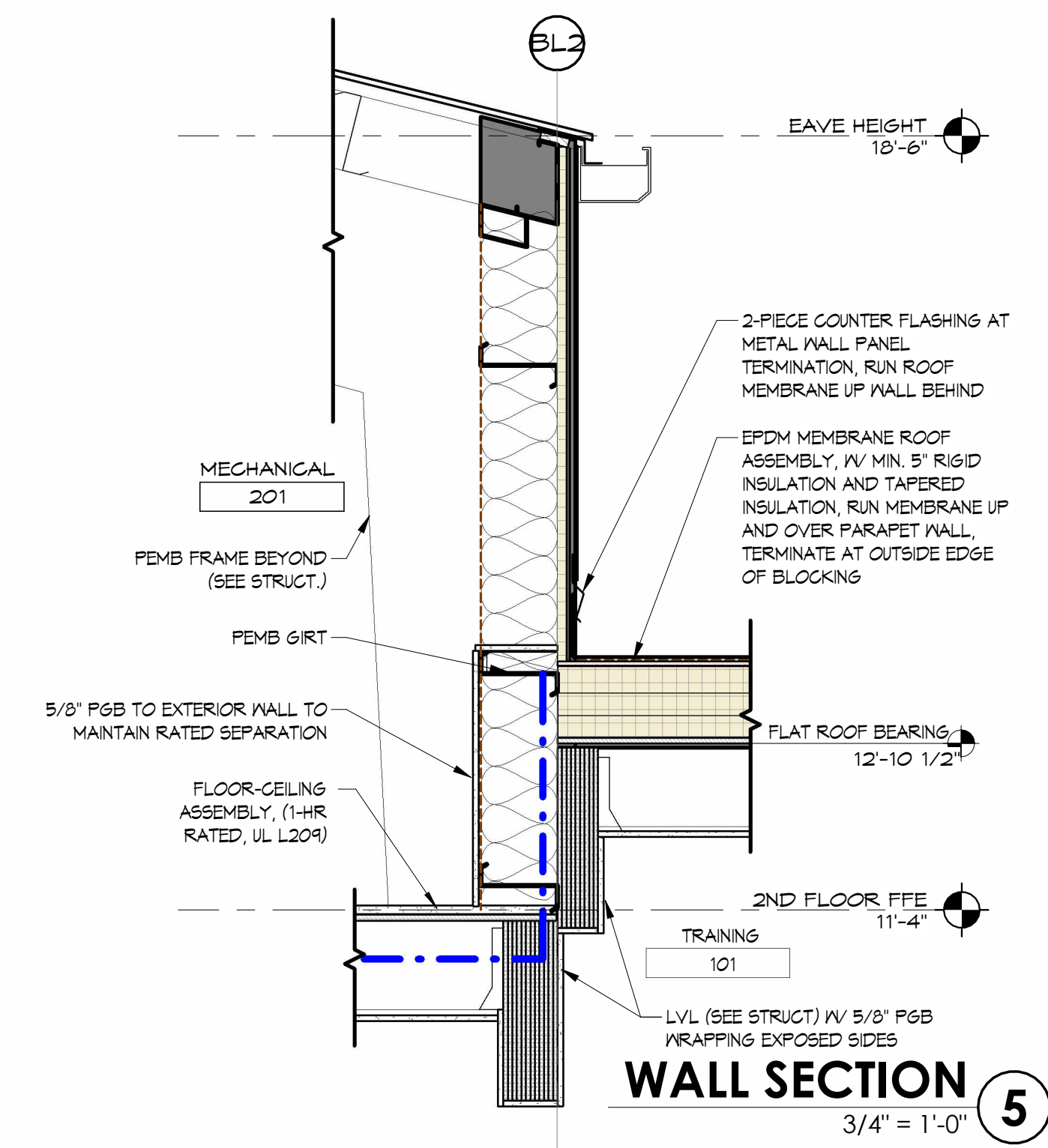
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A3.03



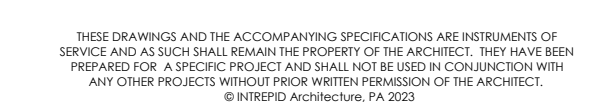


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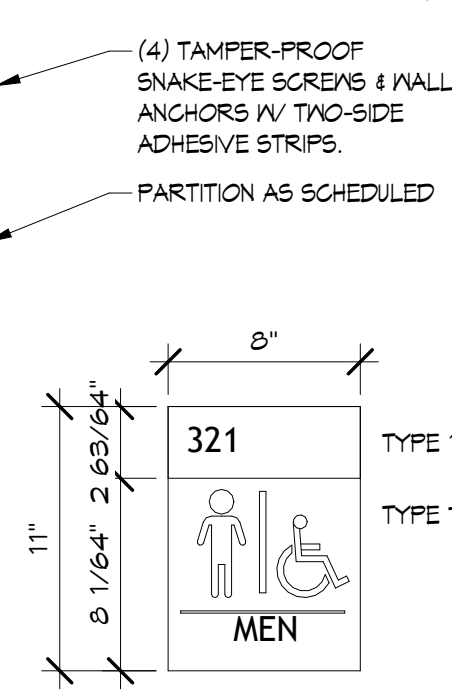
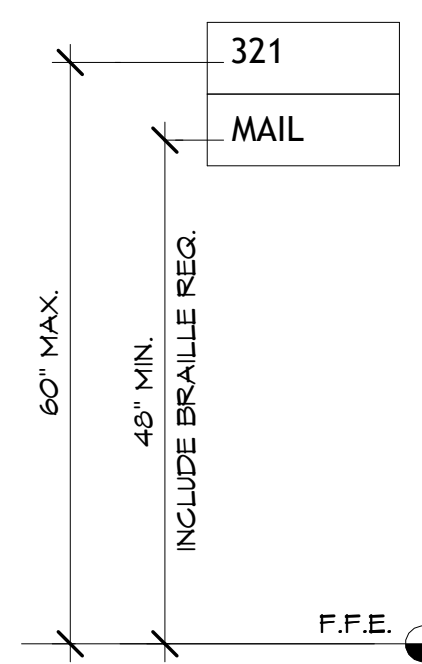
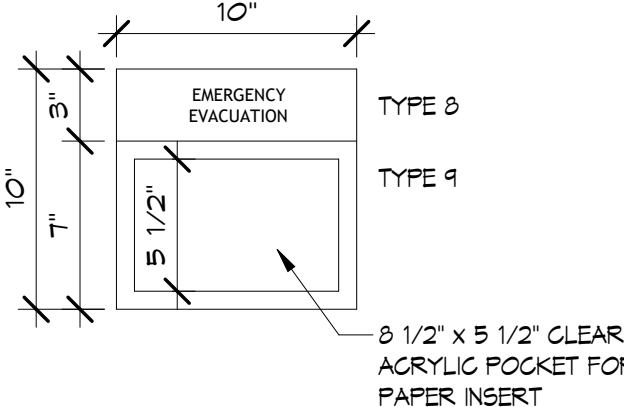
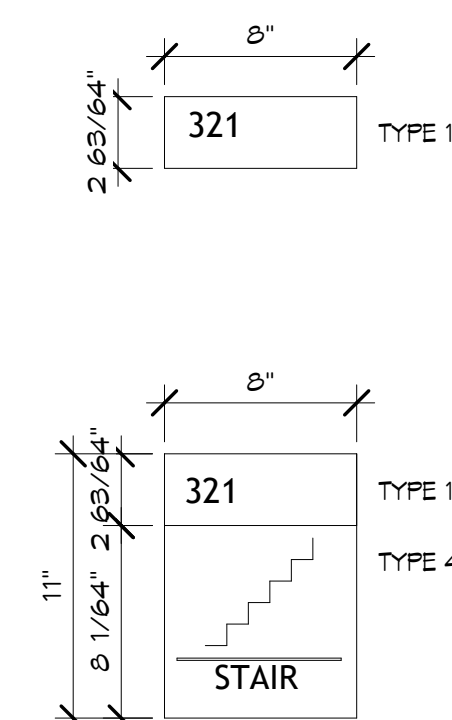
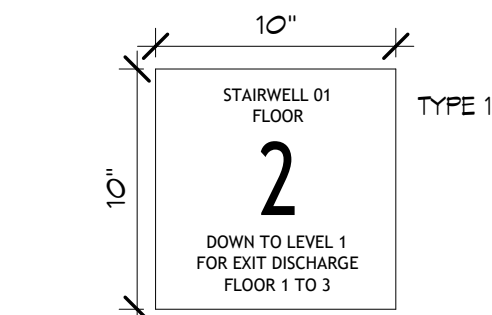
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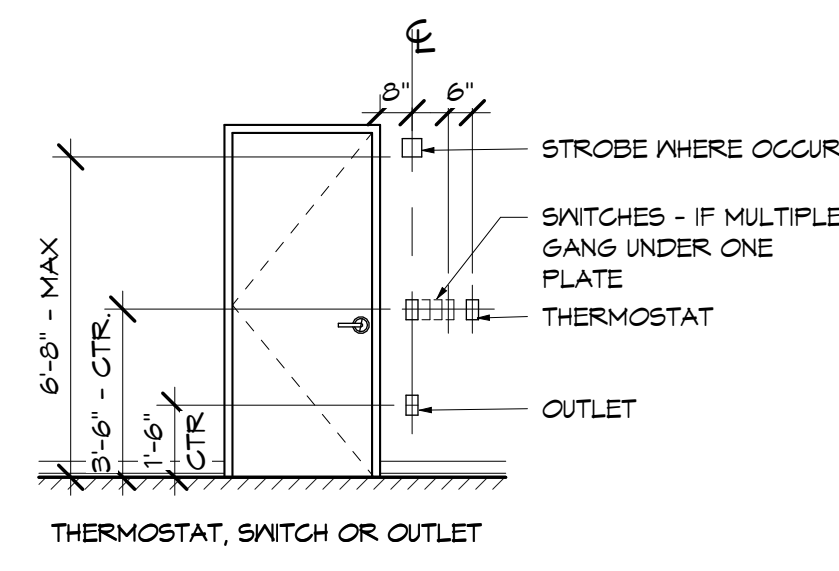
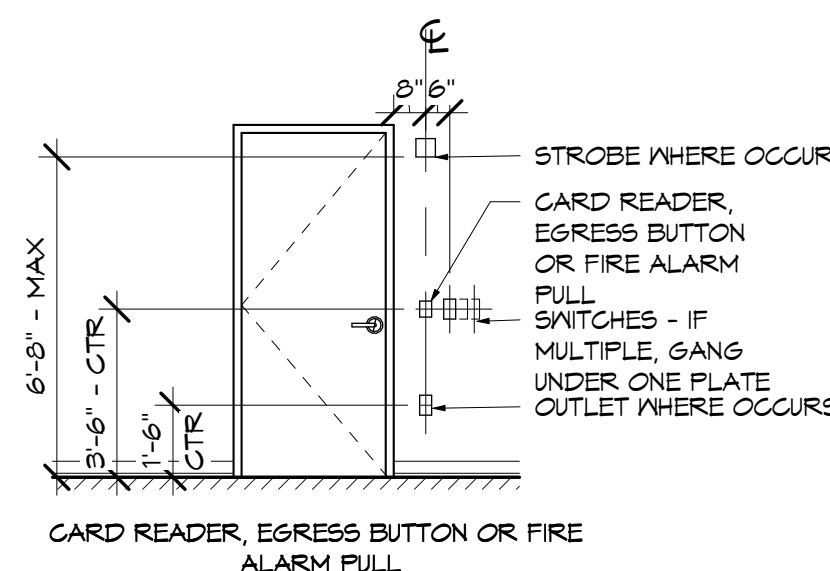
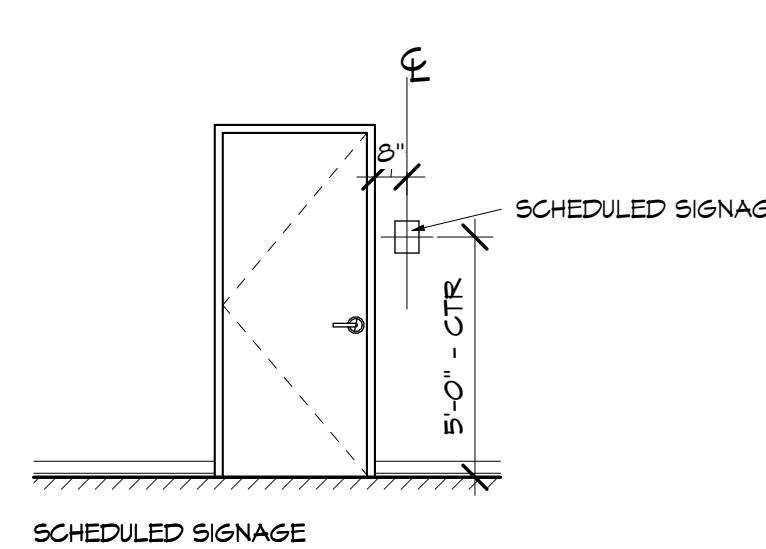
ADA TYP. MOUNTING HEIGHTS

A4.00

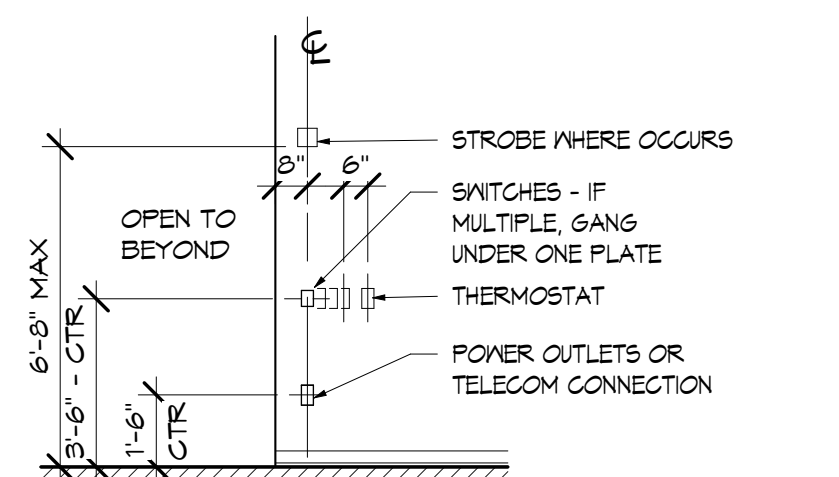
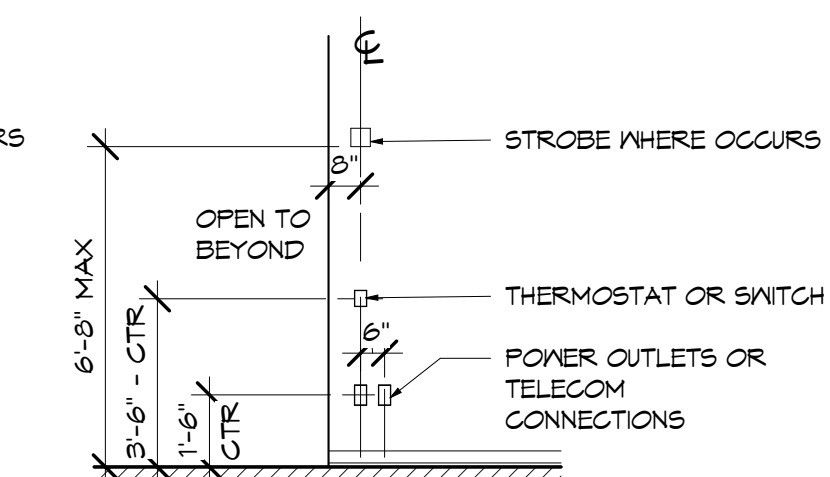
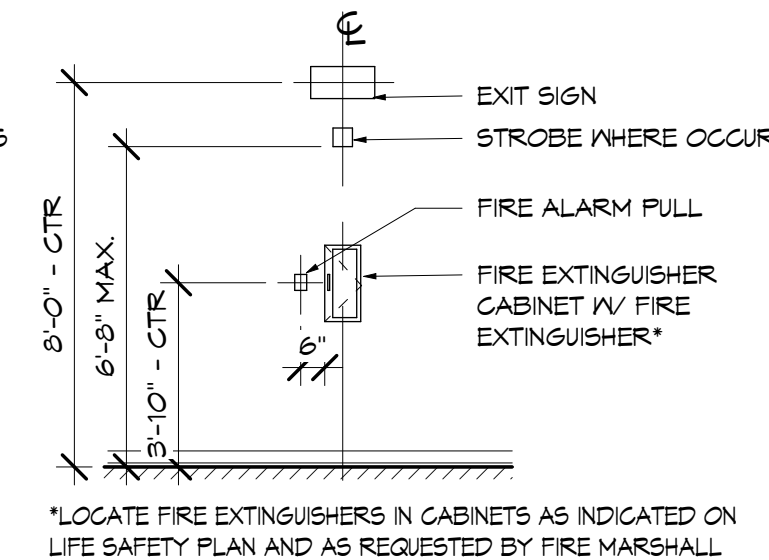
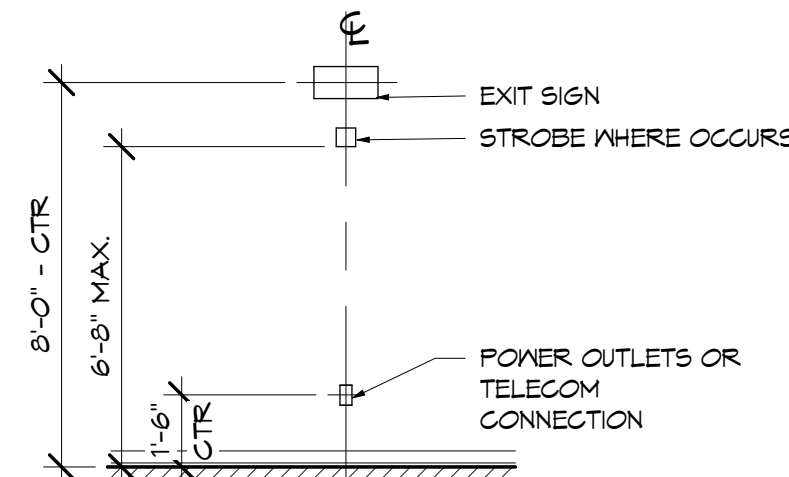
- SYMBOLS:**
- STAIR M F HC
- 



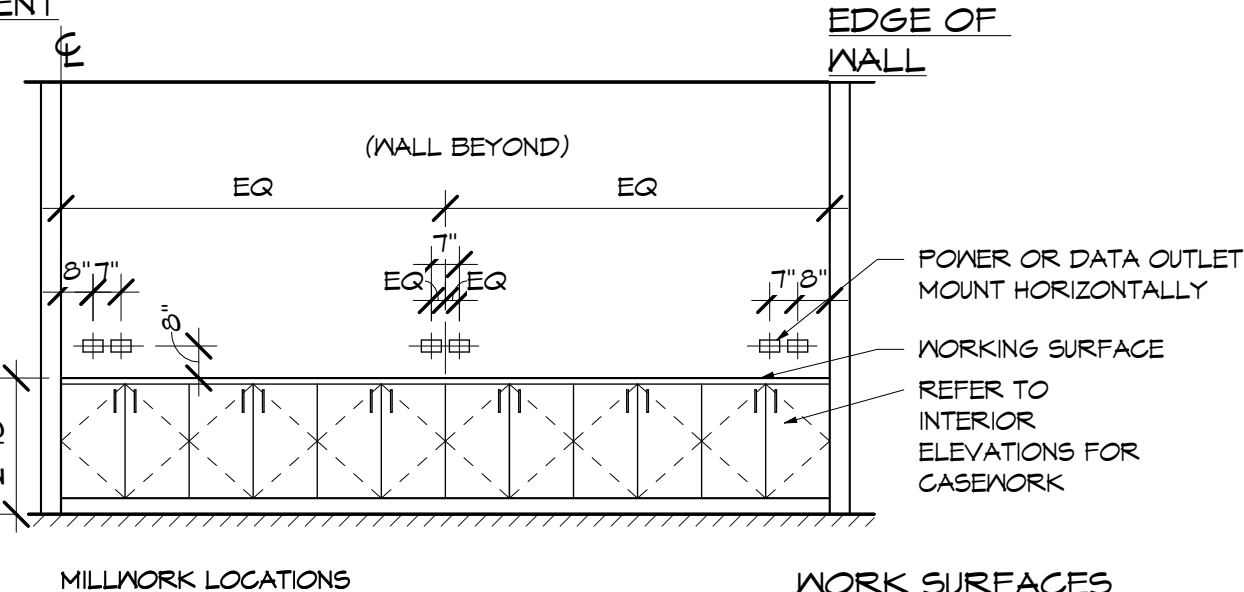
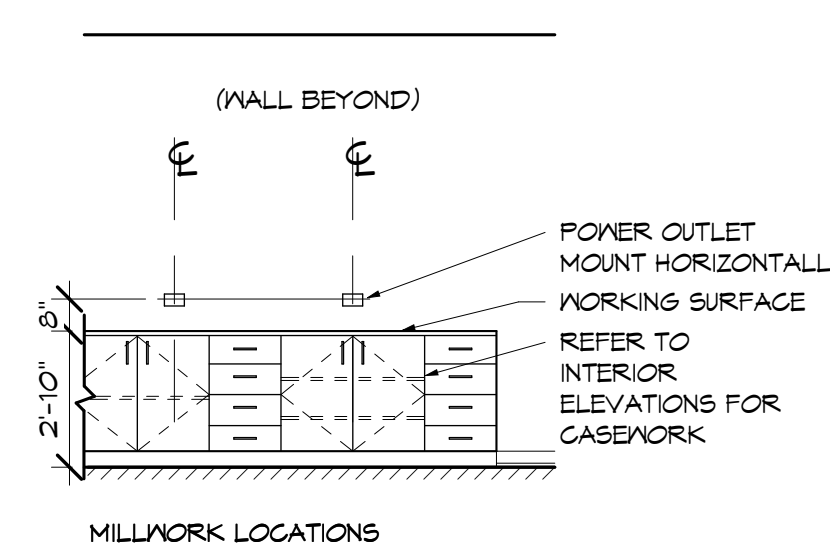
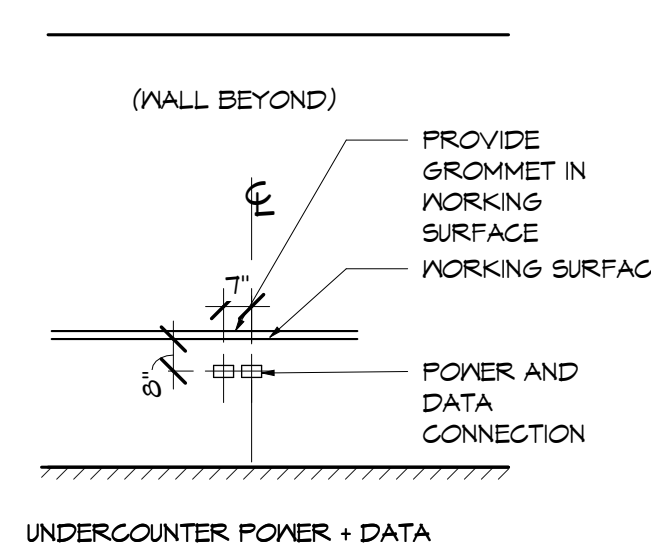
SIGN TYPES

$$1\ 1/2'' = 1'-0''$$


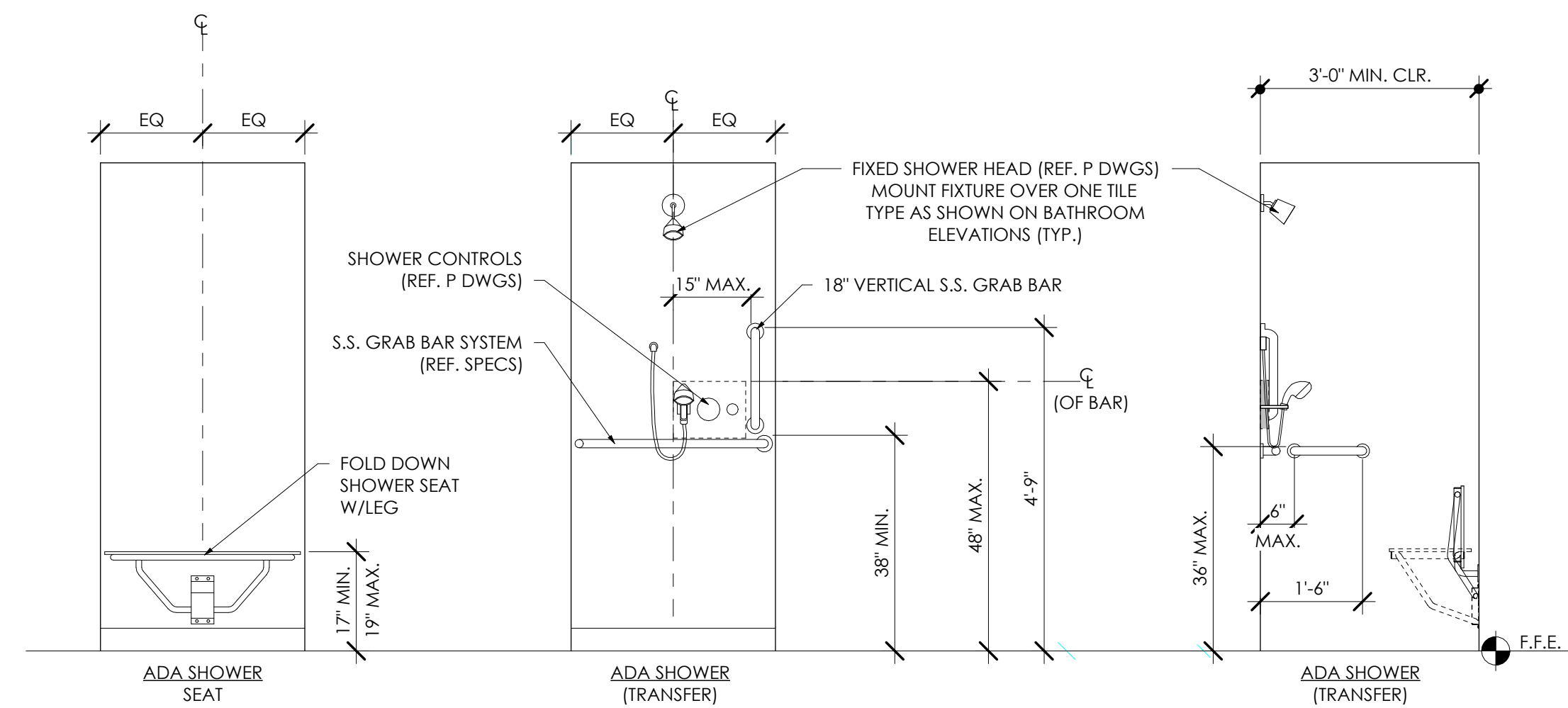
DOOR AND CASE OPENINGS



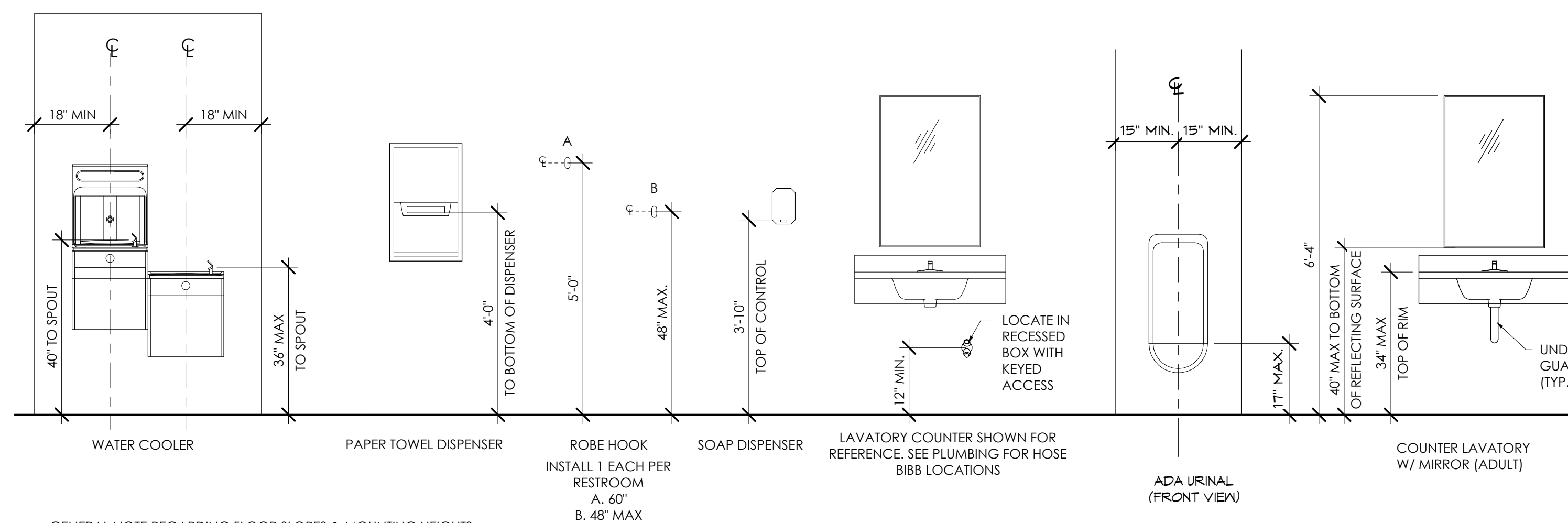
EMERGENCY EQUIPMENT



TYP. MOUNTING HEIGHTS & CLEARANCES

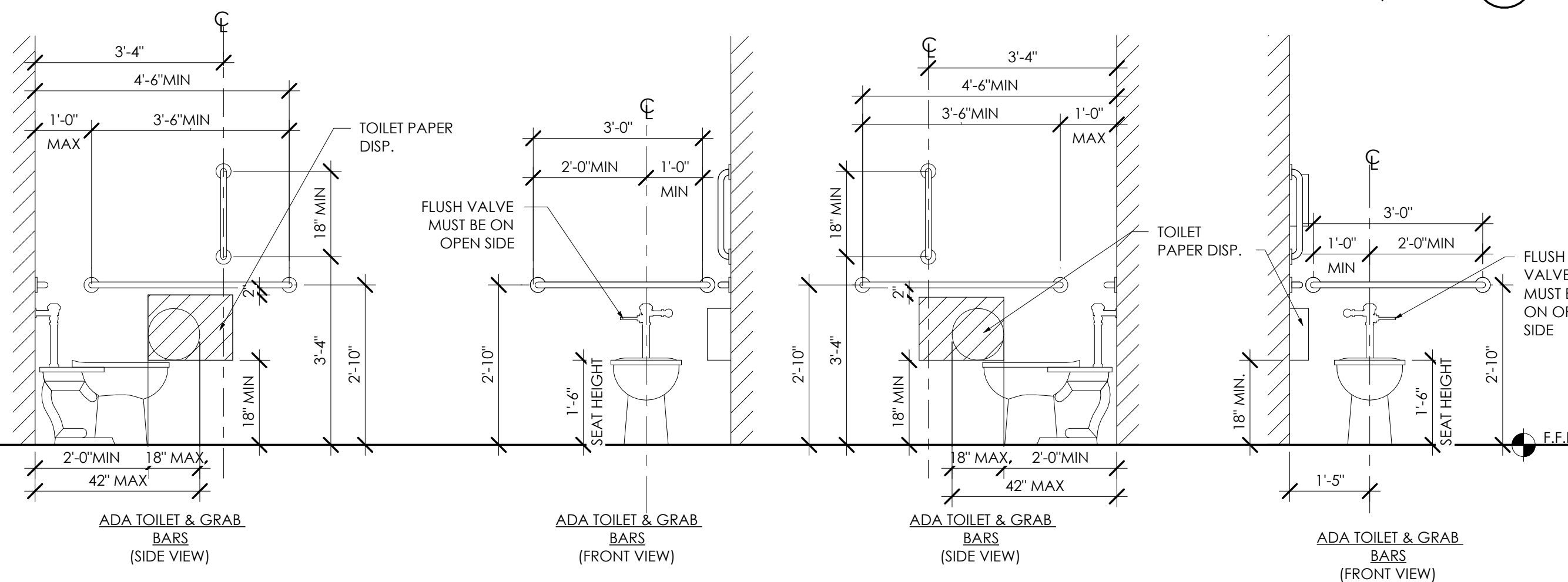
$$1/4'' = 1'-0''$$


ADA SHOWER MOUNTING HEIGHTS

$$1/2'' = 1'-0''$$


GENERAL NOTE REGARDING FLOOR SLOPES & MOUNTING HEIGHTS

- GENERAL NOTE REGARDING FLOOR SLOPES & MOUNTING HEIGHTS:
1. DUE TO RESTROOM CONFIGURATION, ALL RESTROOMS HAVE SLOPED FLOORS. MOUNTING HEIGHTS TO BE DETERMINED BY LOWEST POINT OF SLOPE (WHERE DIMENSION FROM FINISH FLOOR TO THE PICK POINT OF THE DIMENSIONED ITEM IS THE LONGEST).
 2. IN LOCATIONS WHERE GRAB BARS ARE ON PERPENDICULAR WALLS BUT ACT AS A UNIT, THE WORST CASE MOUNTING HEIGHT SHALL GOVERN TO AVOID ADJACENT GRAB BARS BEING AT DIFFERENT HEIGHTS.
 3. MOUNTING LOCATIONS TO BE REVIEWED AND APPROVED BY DESIGNER IN THE FIELD PRIOR TO FINAL FINISH INSTALLATION TO VERIFY HEIGHTS MEET ADA REQUIREMENTS.
 4. CONTRACTOR TO PROVIDE RIGGING FOR ALL WALL-MOUNTED FIXTURES & ACCESSORIES.



TYP. RESTROOM FIXTURE & ACCESSORY MOUNTING HEIGHTS AND CLEARANCES

$$1/2'' = 1'-0''$$

A4.00



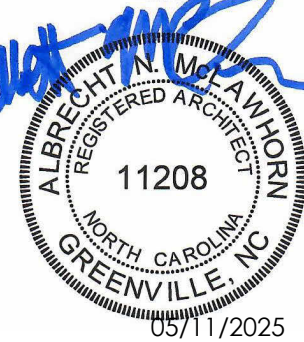
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DESC. DATE

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PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
ENLARGED PLANS & INTERIOR ELEVATIONS

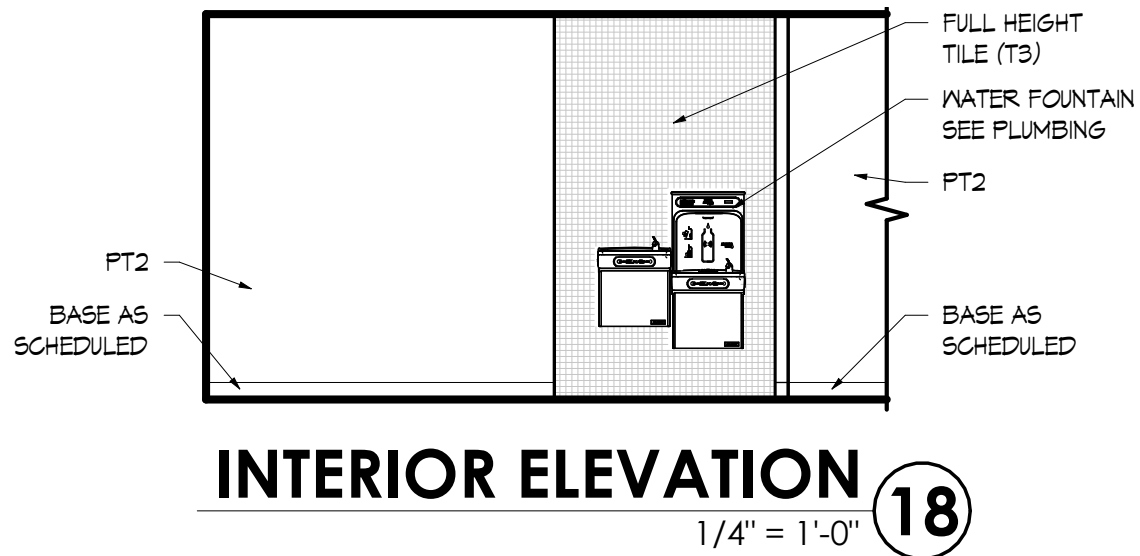
A4.01

GENERAL NOTES	
1. REFER TO A4.00 FOR MOUNTING HEIGHTS & SIZES	
2. INSTALL BLOCKING AS REQ'D FOR ALL CASEWORK, SHELVES, FIXTURES, AND ACCESSORIES	
3. COORDINATE WITH OWNER TO CONFIRM MODELS SELECTED ALIGN WITH THE STOCK OF SUPPLIES THEY KEEP.	

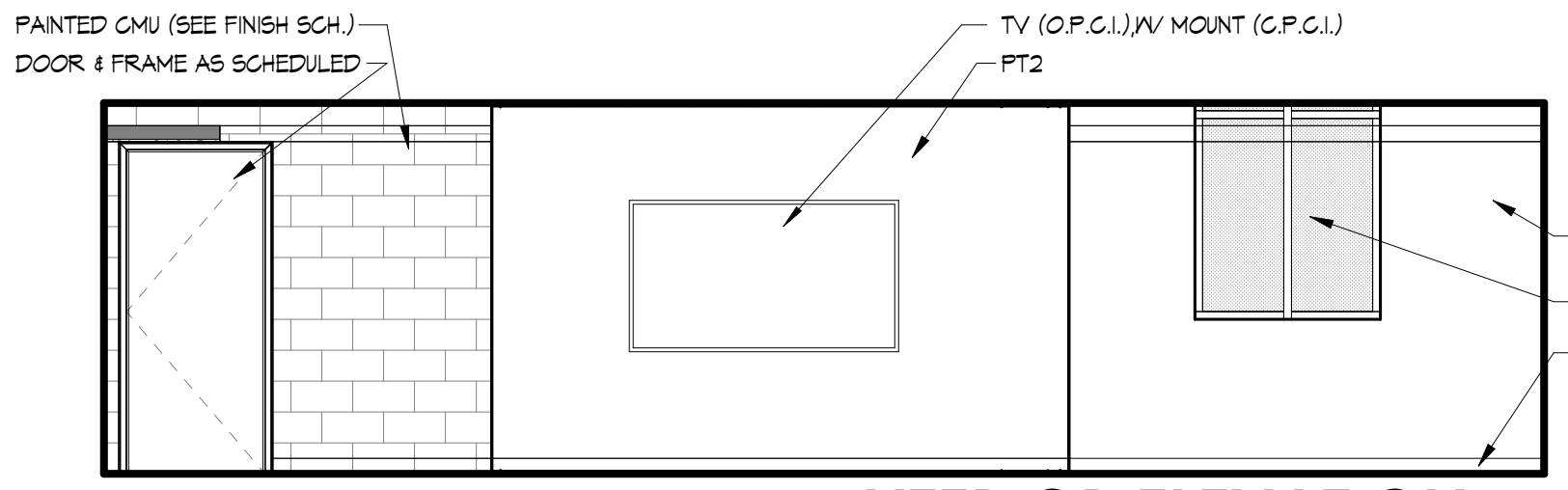
ACCESSORY SCHEDULE		MANUFACTURER	MODEL #	REMARKS	
SHS	S.S. SHOWER SEAT	BRADLEY	9595		BOBRICK, ASI
GB	S.S. ADA COMPLIANT GRAB BARS	BOBRICK	5006 SERIES	SEE A4.00 FOR SIZES	ASI, MOEN
RH	S.S. ROBE HOOK	BRADLEY	951	2 IN EACH BATHROOM	BOBRICK, ASI
TD	S.S. TISSUE DISPENSER	BRADLEY	5424		BOBRICK, ASI
M	S.S. WALL-HUNG MIRROR	BRADLEY	101		BOBRICK, ASI
PTD	S.S. PAPER TOWEL DISPENSER	BRADLEY	250-15		BOBRICK, ASI
SR	S.S. SHOWER ROD	BRADLEY	953, 9531		BOBRICK, ASI
SD	SOAP DISPENSER	BOBRICK	B-2111		ASI, MOEN
LOCKERS		BRADLEY	LENOLLOCKER	COLOR TO BE SELECTED FROM FULL RANGE	BOBRICK, ASI
SLF	S.S. SHELF	BRADLEY	TS10, TS12	36" LENGTH	ASI, BOBRICK

EQUIPMENT SCHEDULE		MANUFACTURER	MODEL #	ALTERNATE MANUFACTURERS	REMARKS
GAS RANGE	GE	GG5500PV55		SAMSUNG, LG	
REFRIGERATOR	GE	6YE21JYMF5		SAMSUNG, LG	
DISHWASHER	GE	GDP6TOSYVF5		SAMSUNG, LG	
WASHER/DRYER SET	GE	WASHER - GFWH5050NVM DRYER - GFD5555NVM		SAMSUNG, LG	
MICROWAVE	GE	PCWK22U1MB		SAMSUNG, LG	PROVIDE TRIM KIT & SHELF, IN ADDITION TO UNIT

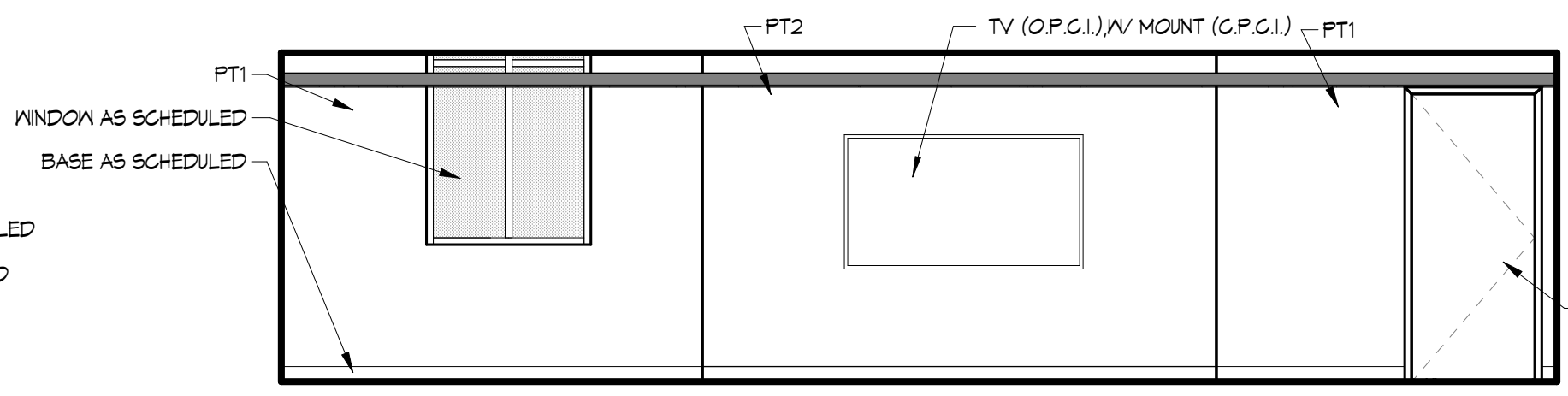
*OWNER TO APPROVE ALL SELECTIONS PRIOR TO FINAL PRICING



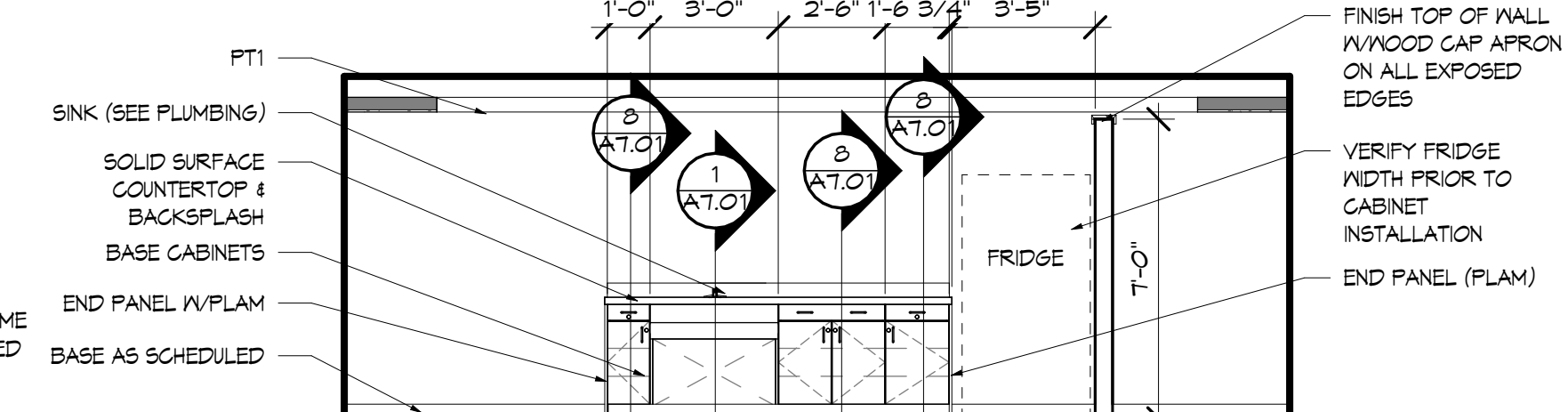
INTERIOR ELEVATION 18
1/4" = 1'-0"



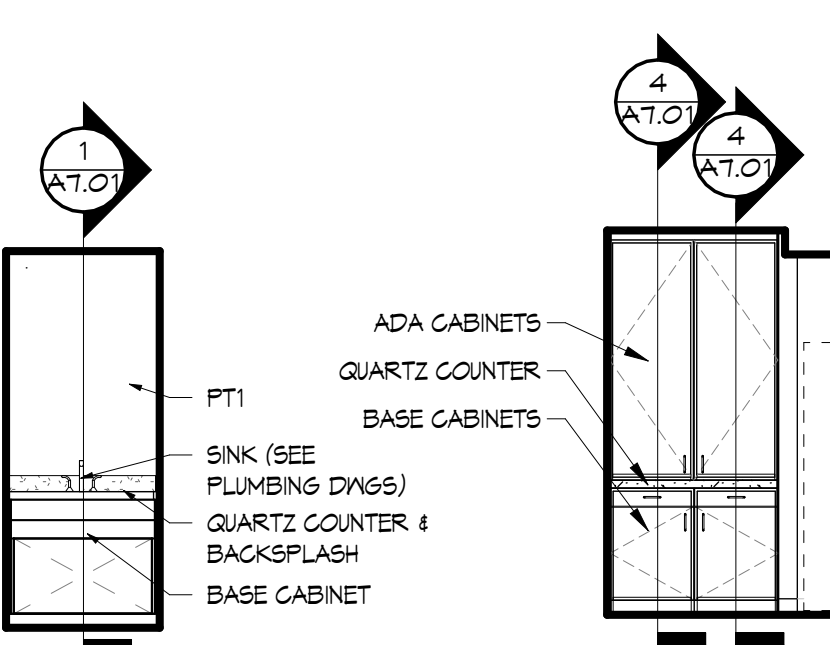
INTERIOR ELEVATION 21
1/4" = 1'-0"



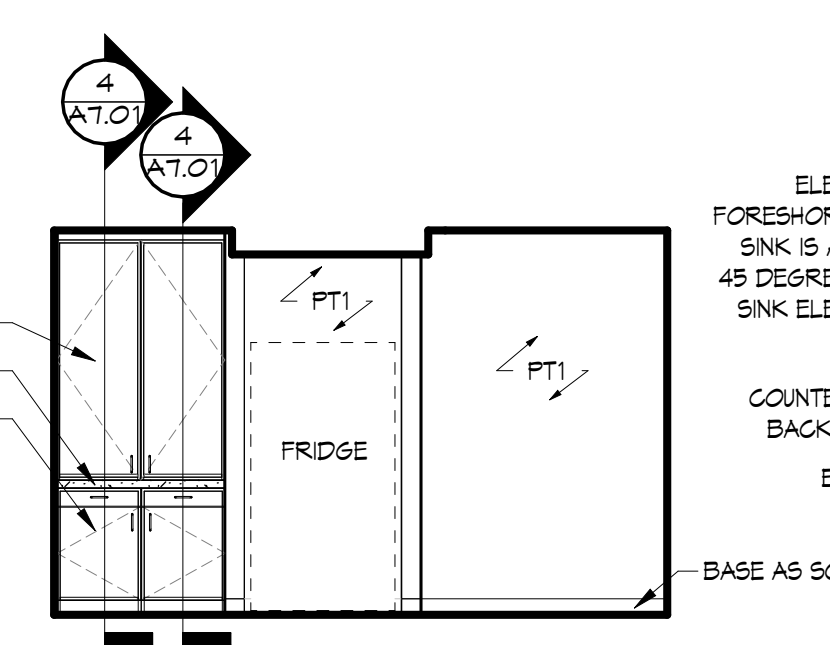
INTERIOR ELEVATION 22
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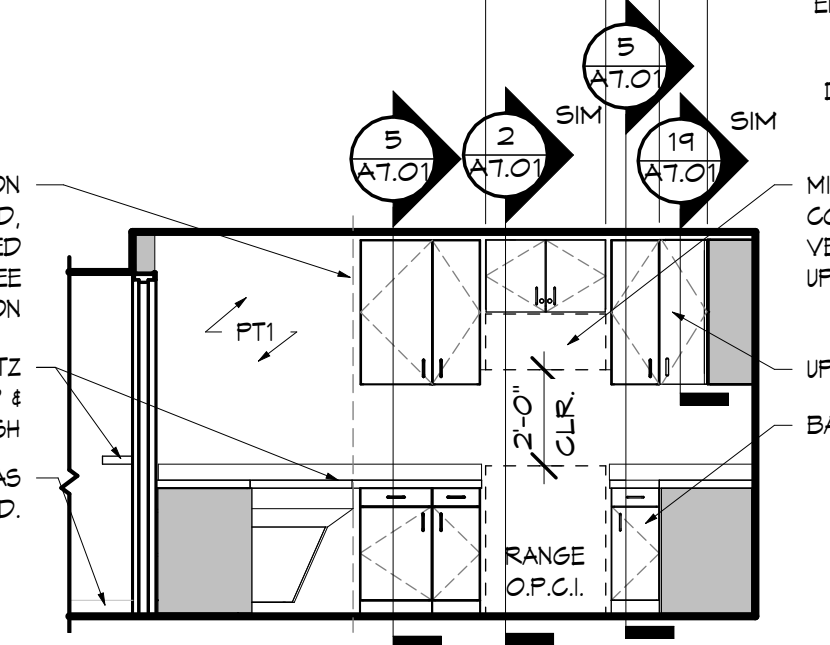
INTERIOR ELEVATION 19
1/4" = 1'-0"



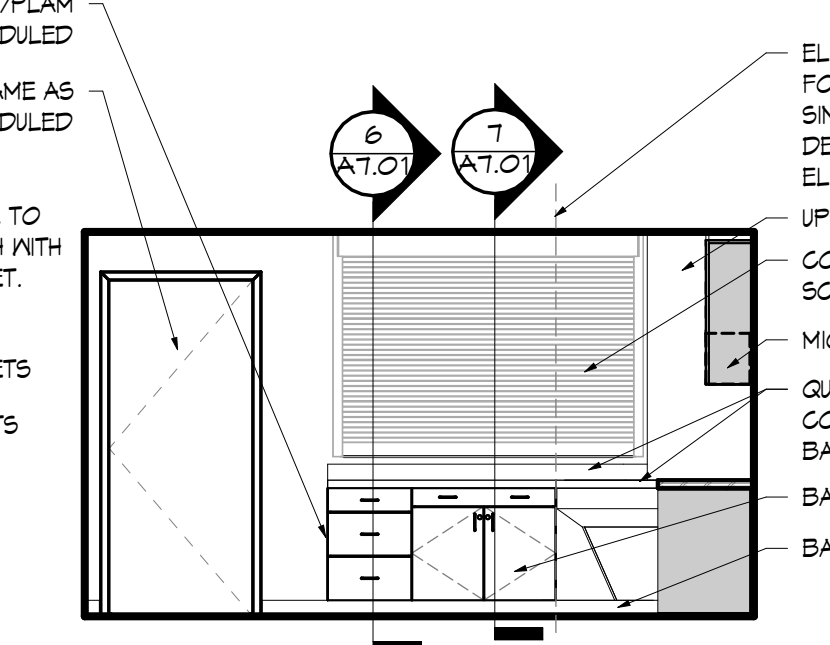
INTERIOR ELEVATION 20
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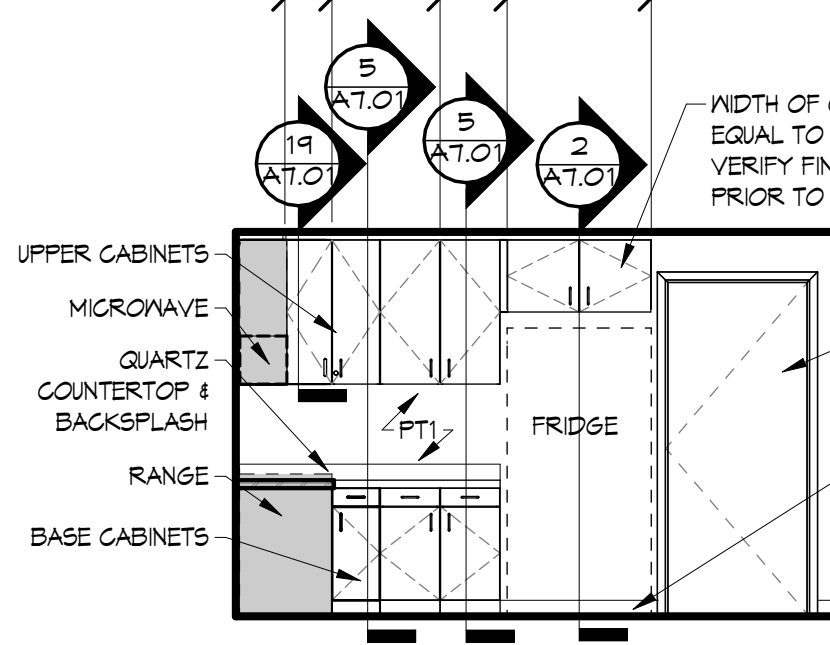
INTERIOR ELEVATION 23
1/4" = 1'-0"



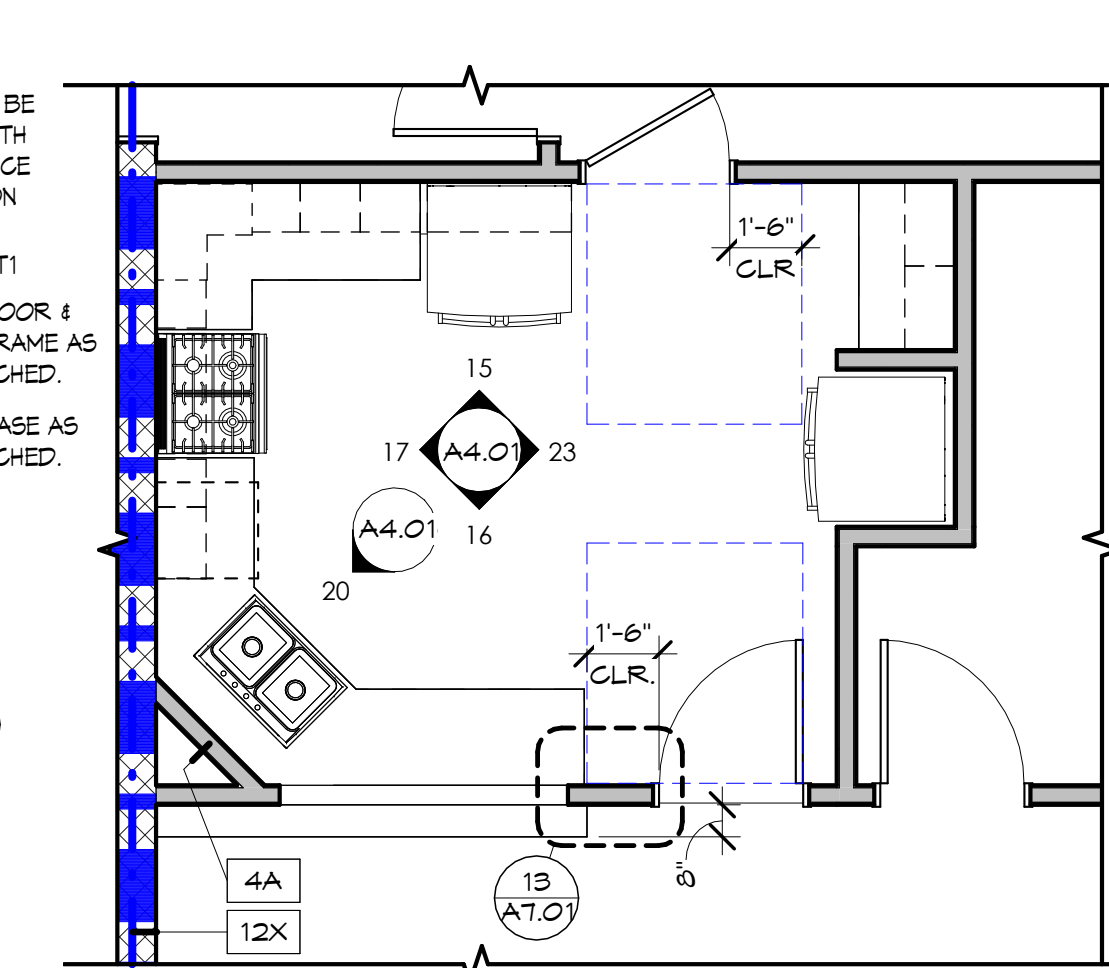
INTERIOR ELEVATION 17
1/4" = 1'-0"



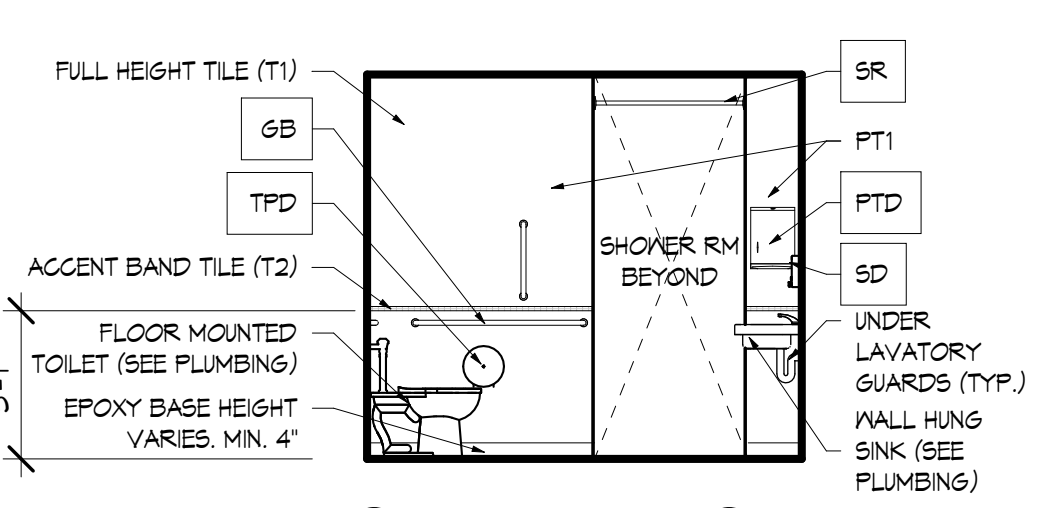
INTERIOR ELEVATION 16
1/4" = 1'-0"



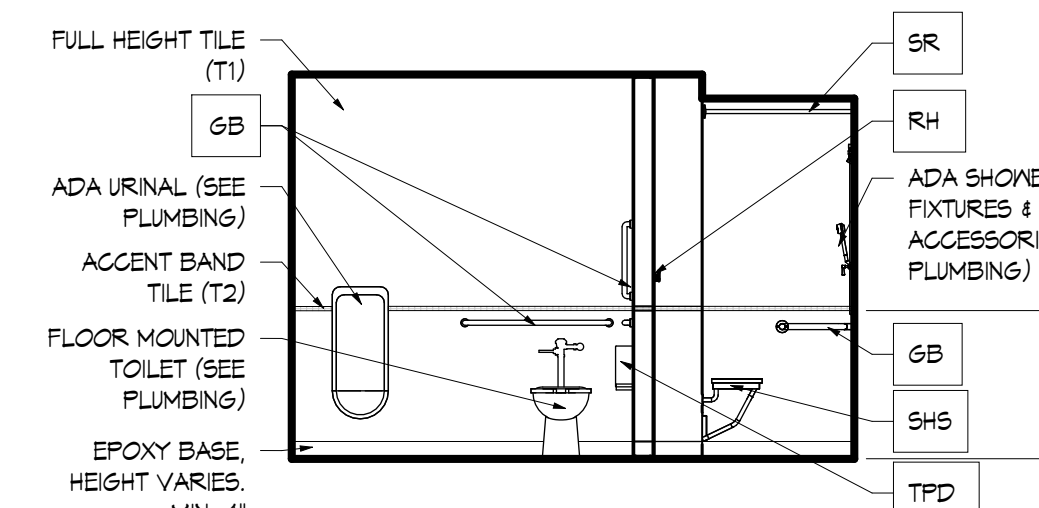
INTERIOR ELEVATION 15
1/4" = 1'-0"



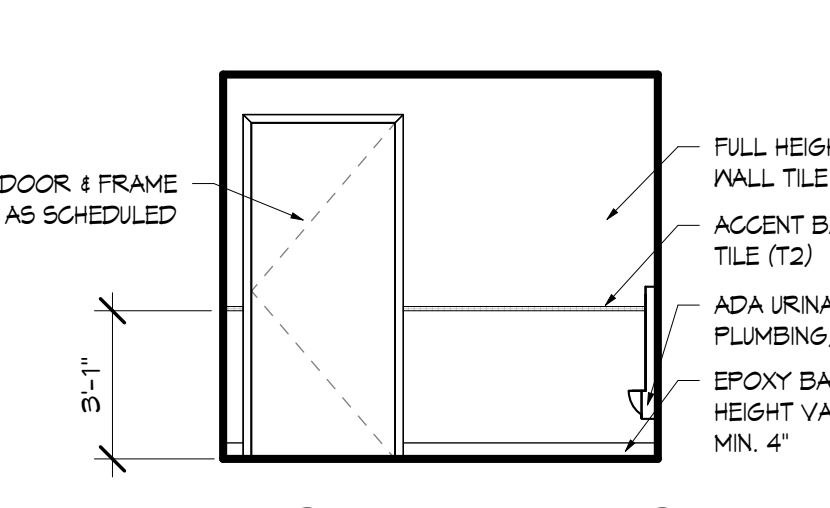
ENLARGED PLAN 2
1/4" = 1'-0"



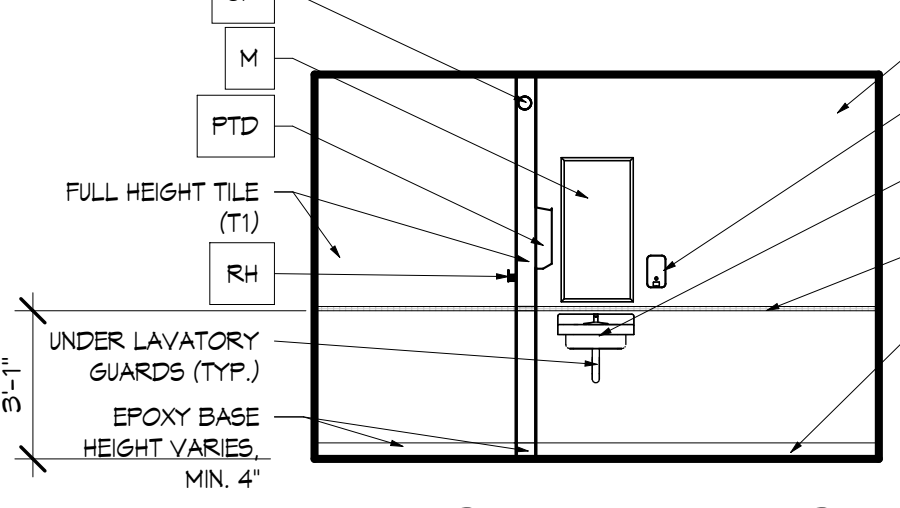
INTERIOR ELEVATION 14
1/4" = 1'-0"



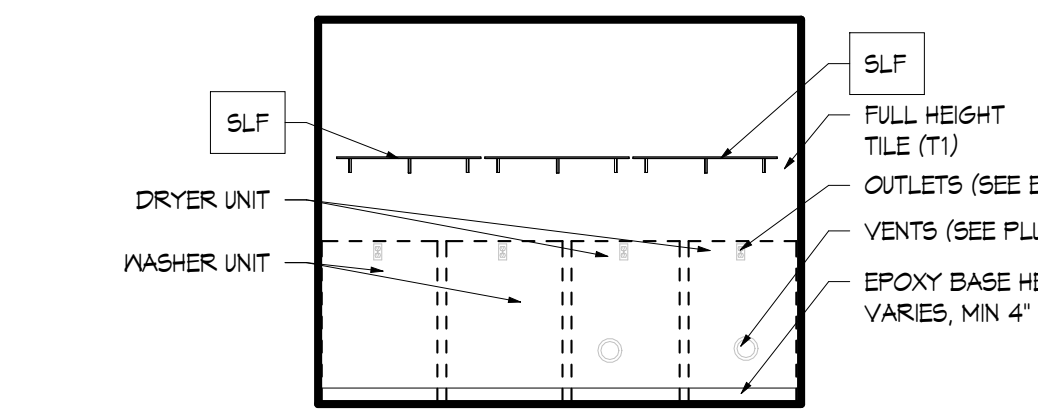
INTERIOR ELEVATION 13
1/4" = 1'-0"



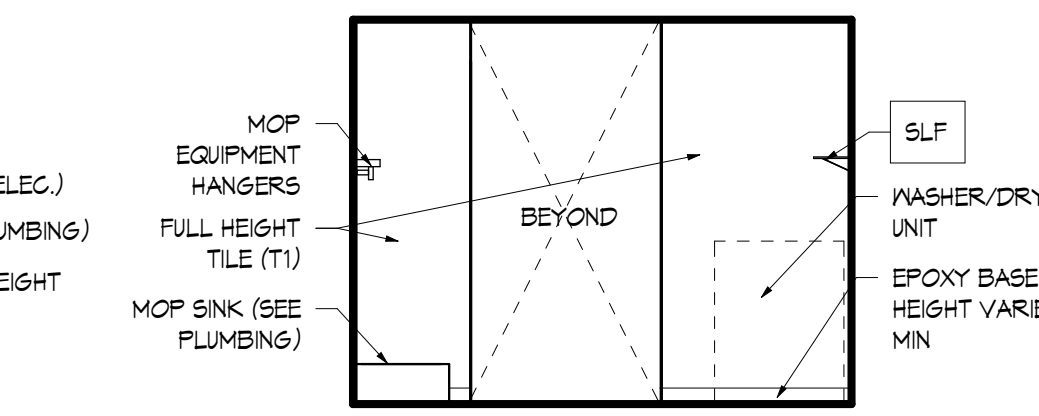
INTERIOR ELEVATION 12
1/4" = 1'-0"



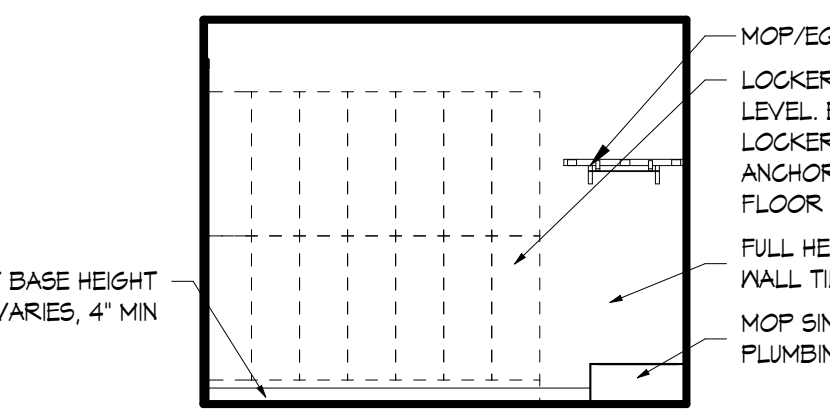
INTERIOR ELEVATION 11
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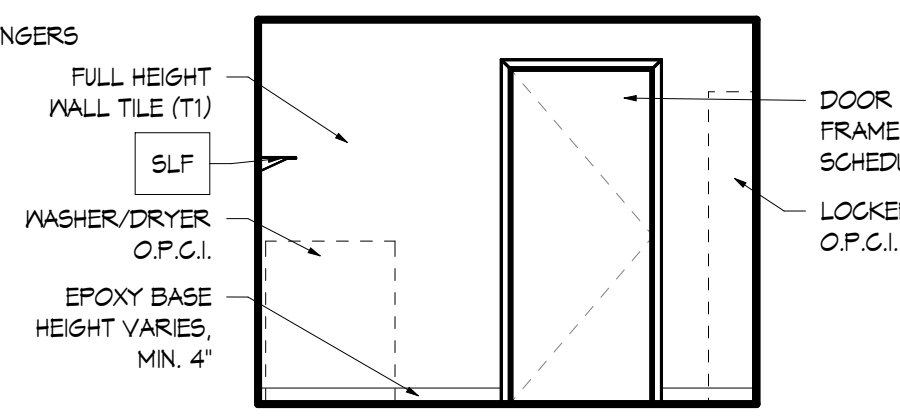
INTERIOR ELEVATION 10
1/4" = 1'-0"



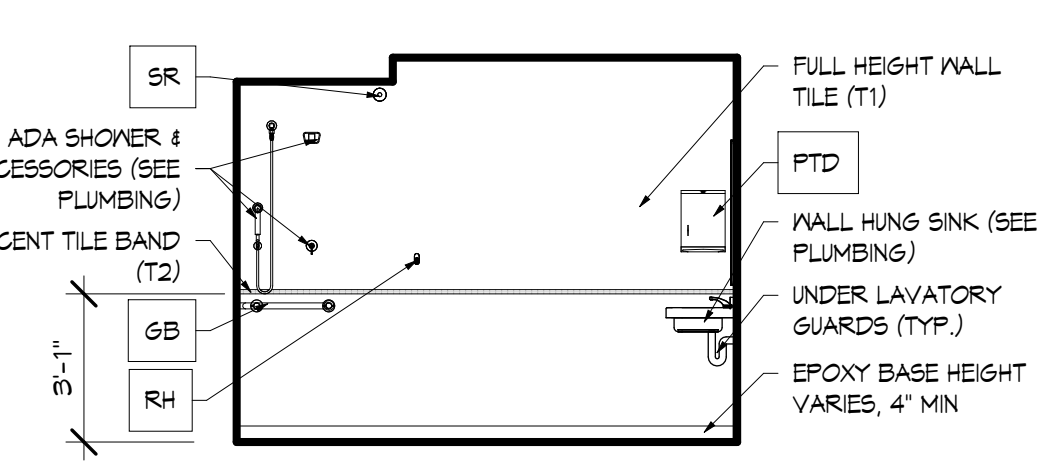
INTERIOR ELEVATION 9
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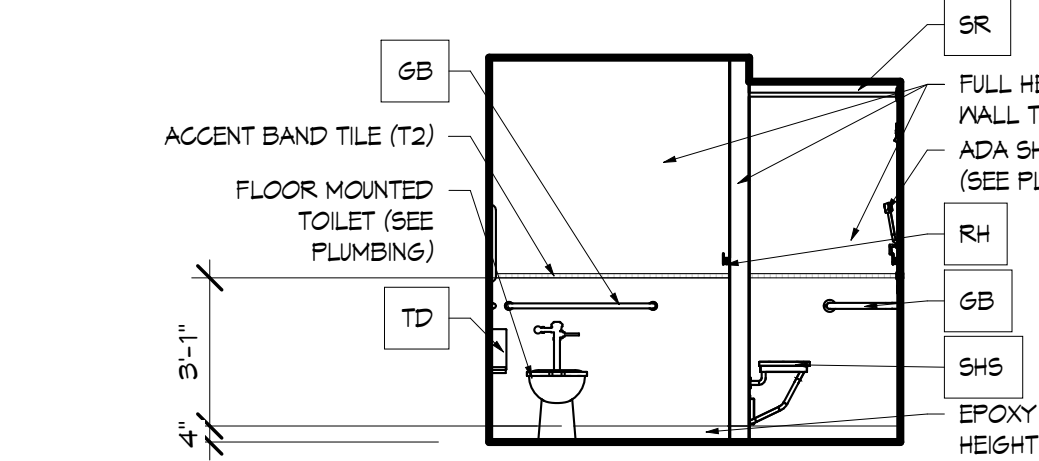
INTERIOR ELEVATION 8
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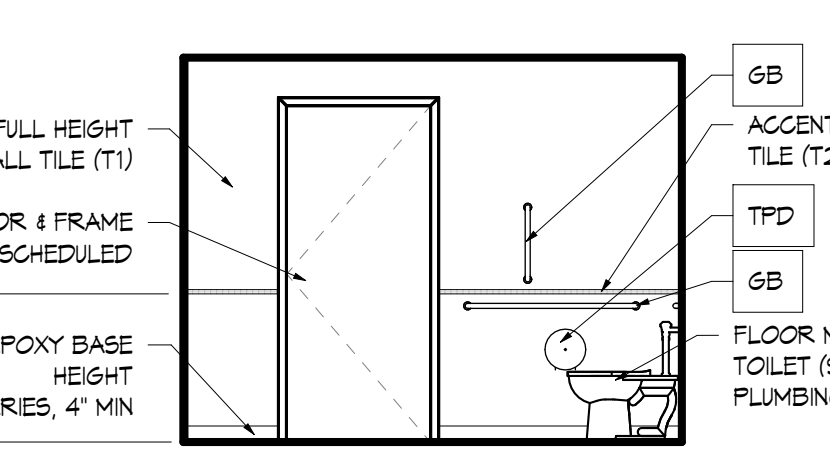
INTERIOR ELEVATION 7
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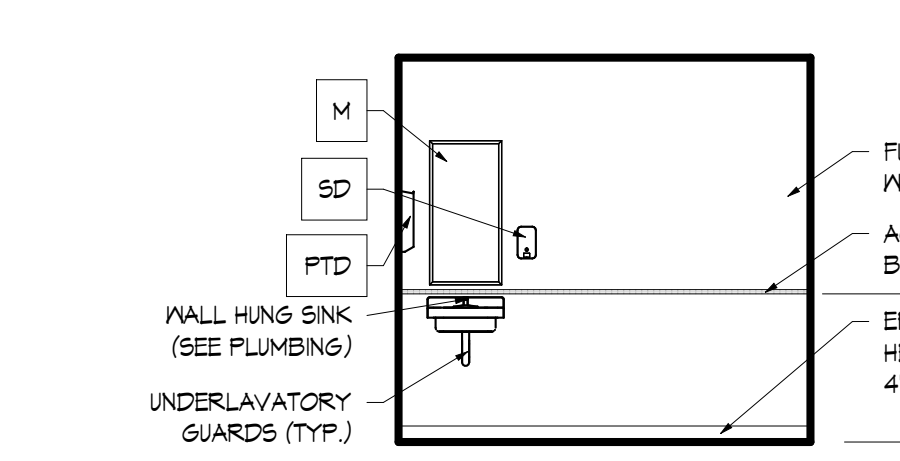
INTERIOR ELEVATION 6
1/4" = 1'-0"



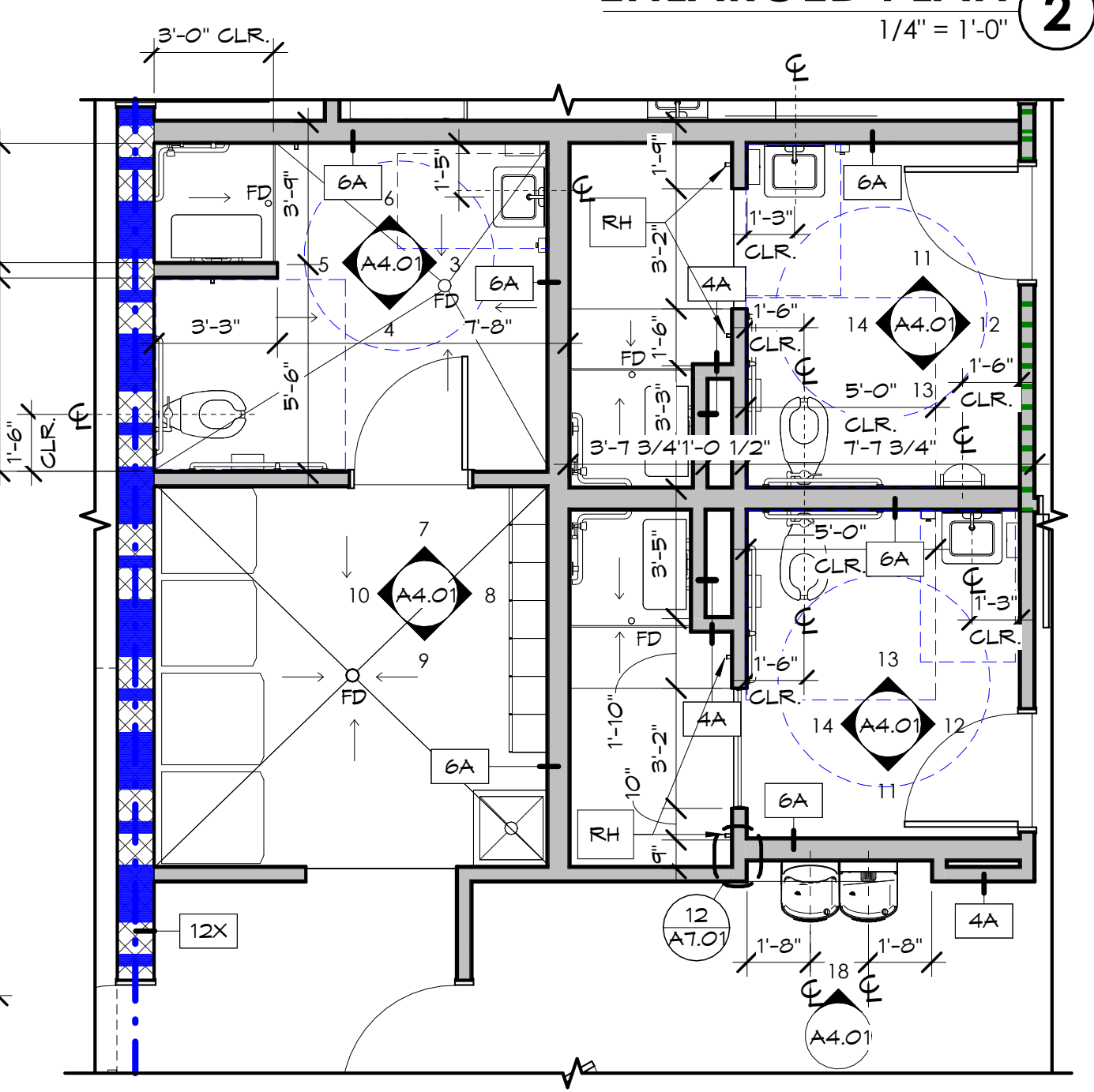
INTERIOR ELEVATION 5
1/4" = 1'-0"



INTERIOR ELEVATION 4
1/4" = 1'-0"



INTERIOR ELEVATION 3
1/4" = 1'-0"



ENLARGED PLAN 1
1/4" = 1'-0"

*ALL FLOOR SLOPES TO DRAINS TO BE NO MORE THAN 1/4"=1'; NO LESS THAN 1/8"=1'
* TILE ACCENT BAND SHALL CARRY THROUGHOUT ALL WALLS IN THE BATHROOM



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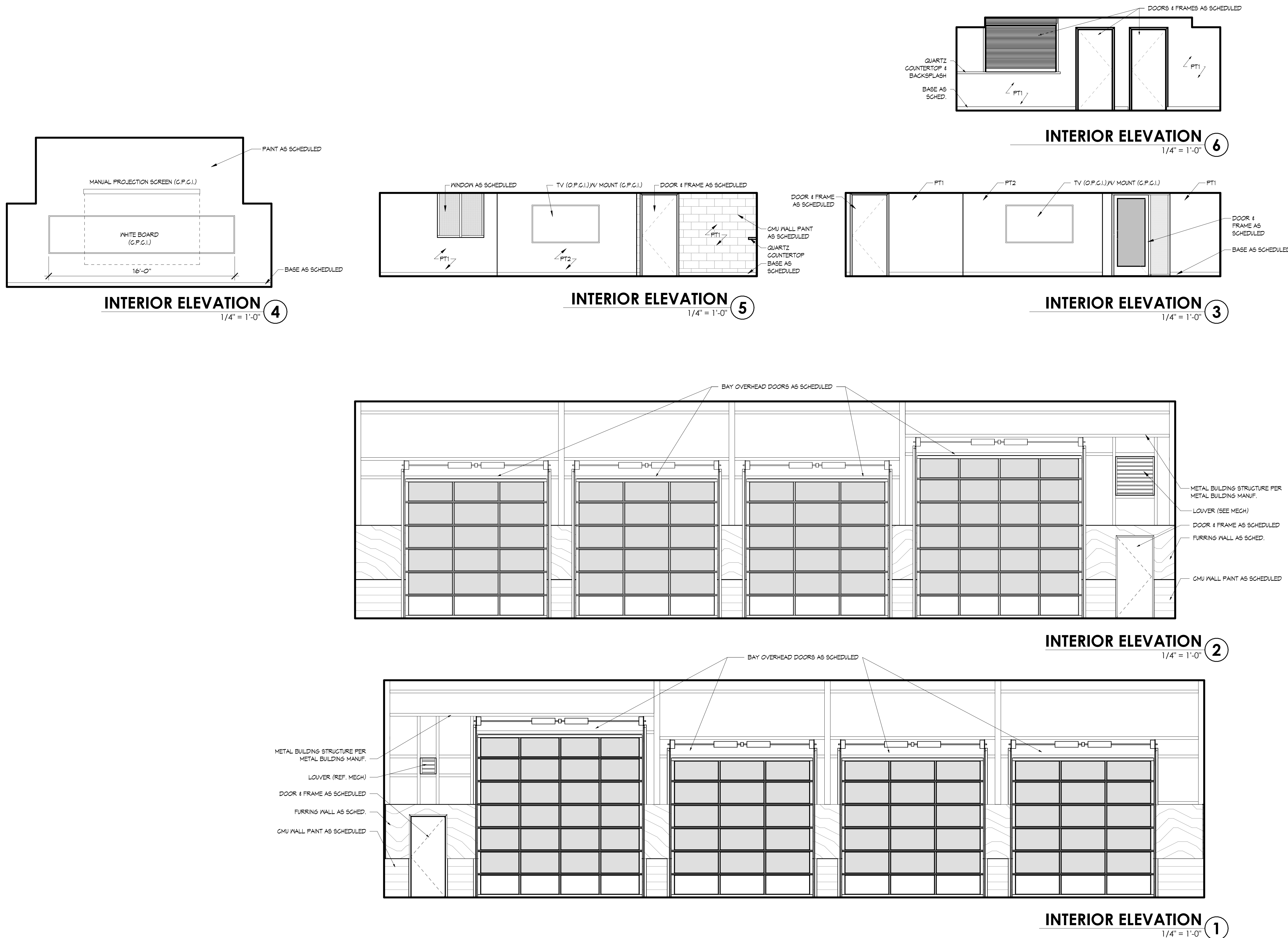
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A4.02





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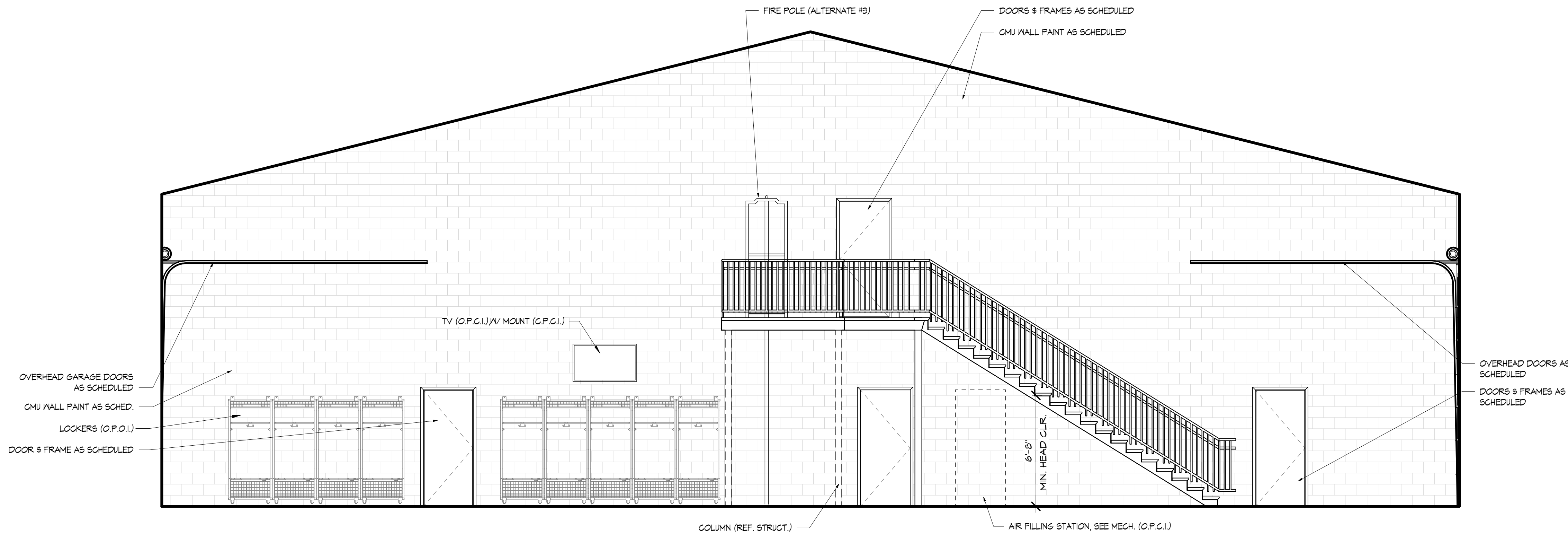
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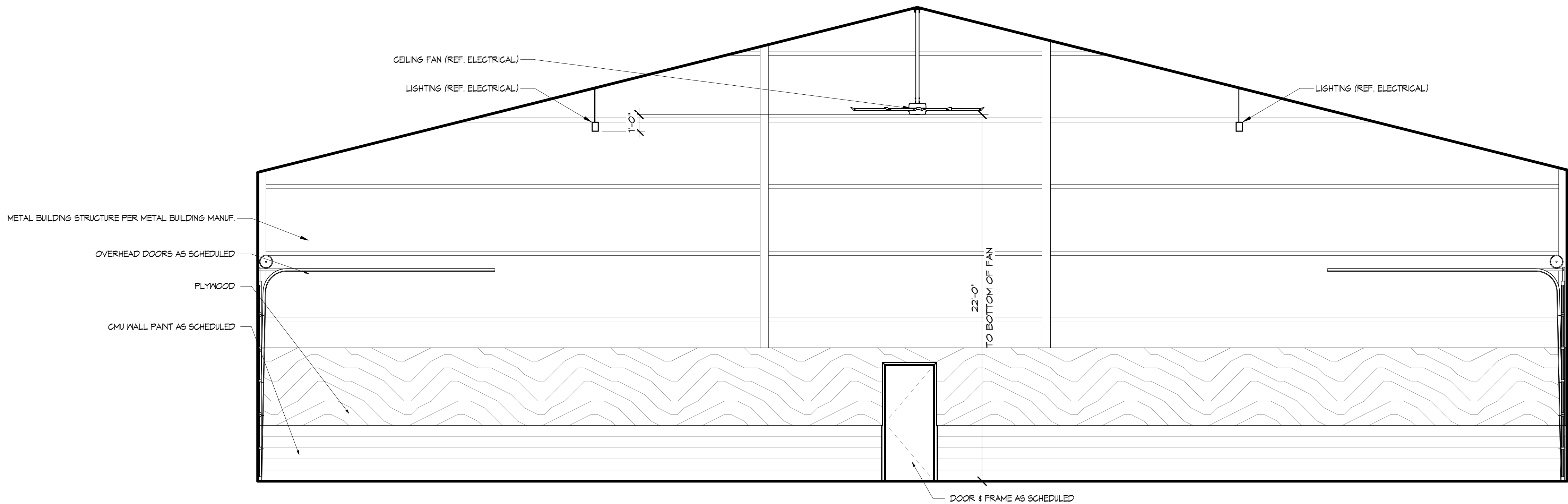
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A4.03



INTERIOR ELEVATION 2
1/4" = 1'-0"



INTERIOR ELEVATION 1
1/4" = 1'-0"



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STAIR ENLARGED PLANS & DETAILS

A4.04



A4.04



GENERAL RCP NOTES

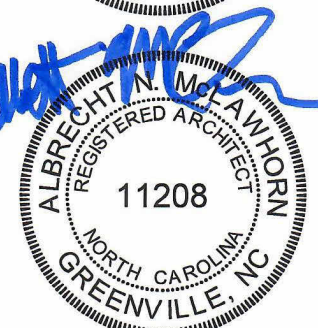
1. ALL WINDOWS SHALL RECEIVE ALUMINUM MINI BLINDS.



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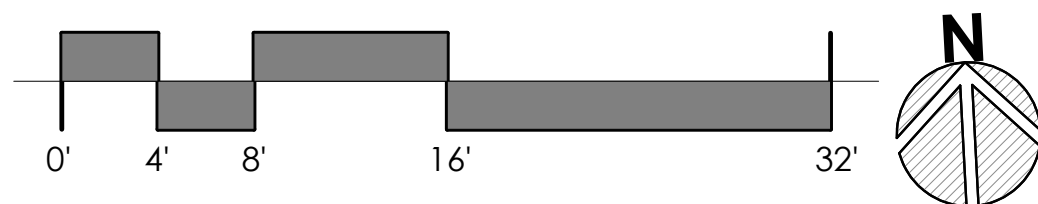
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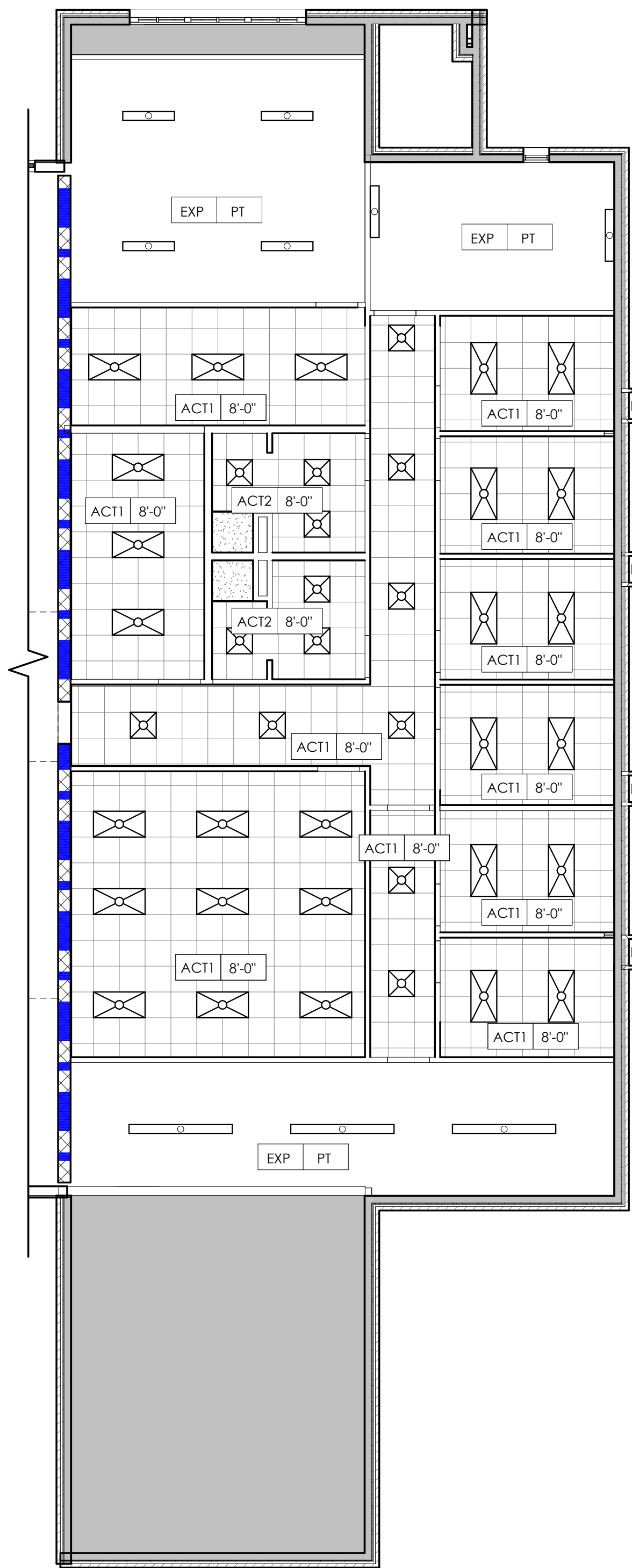
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**PROPOSED REFLECTED CEILING
PLAN - BASE BID**

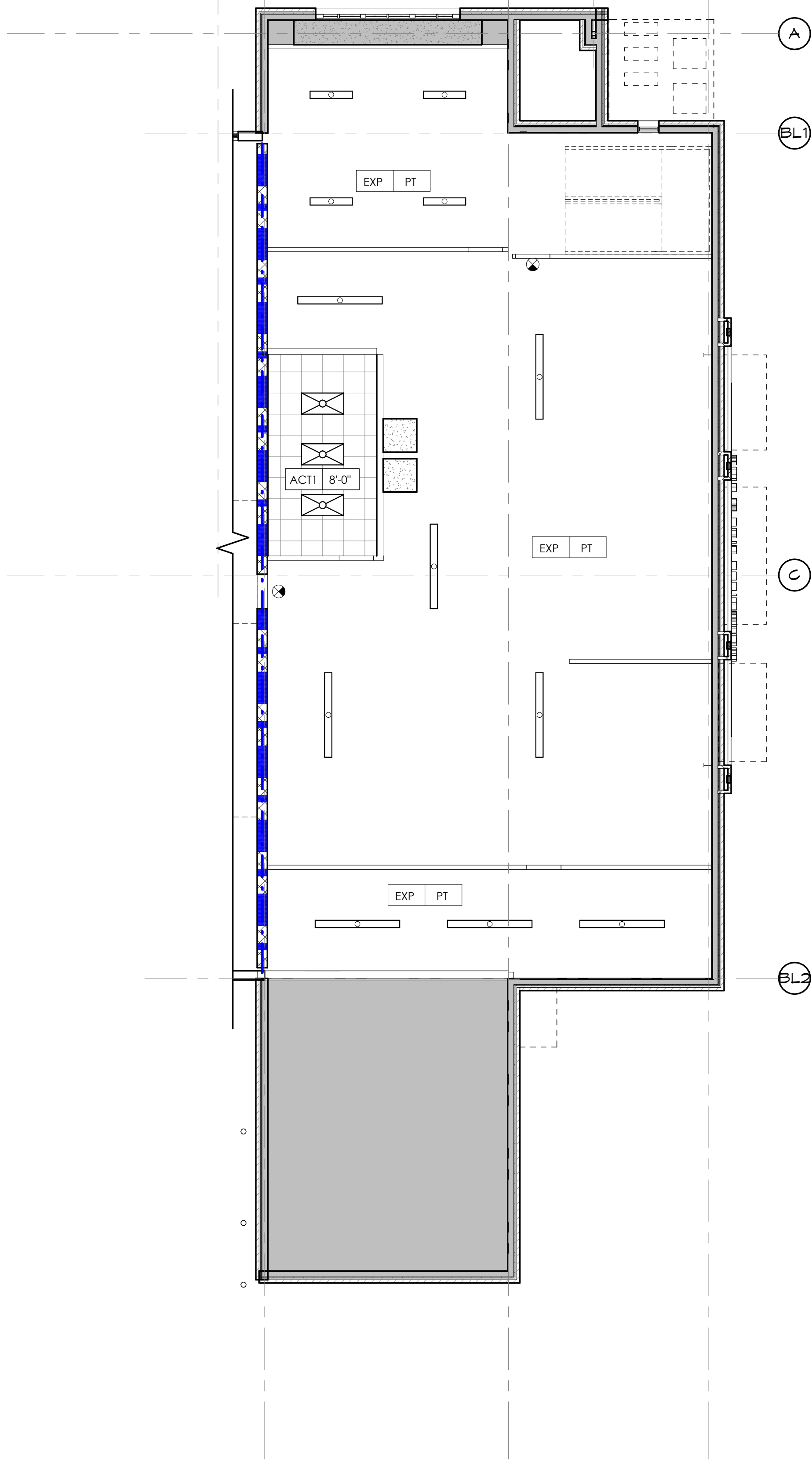
A5.01



PROPOSED FIRST FLOOR RCP 1
1/8" = 1'-0"



2ND FLOOR RCP - ATERNATE #1
1/8" = 1'-0" 2



2ND FLOOR RCP - BASE BID
1/8" = 1'-0" 1

GENERAL RCP NOTES
1. ALL WINDOWS SHALL RECEIVE ALUMINUM MINI BLINDS.



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2ND FLOOR RCP - BASE BID &
ALTERNATE #1

A5.02

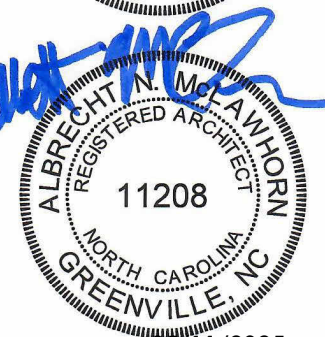


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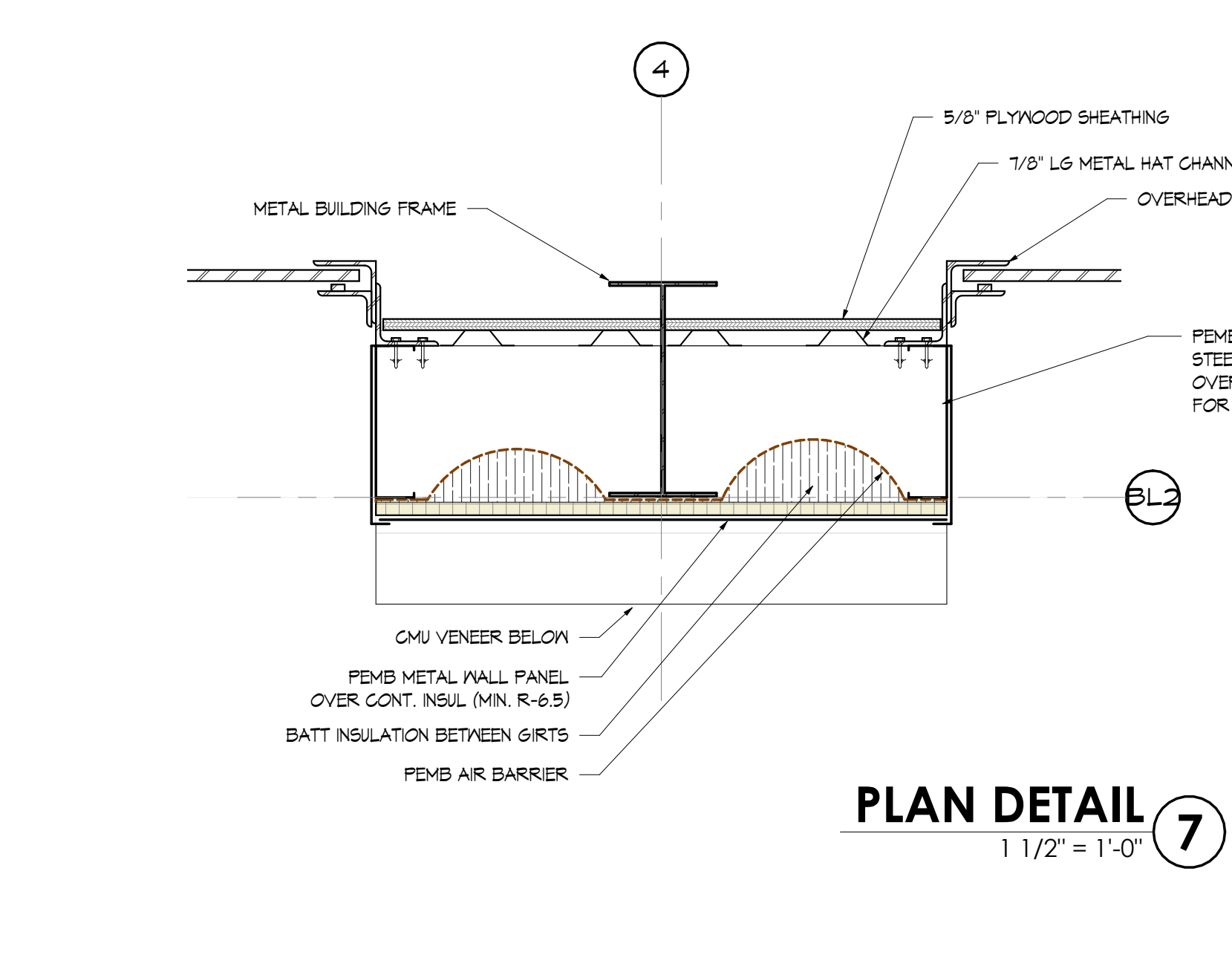
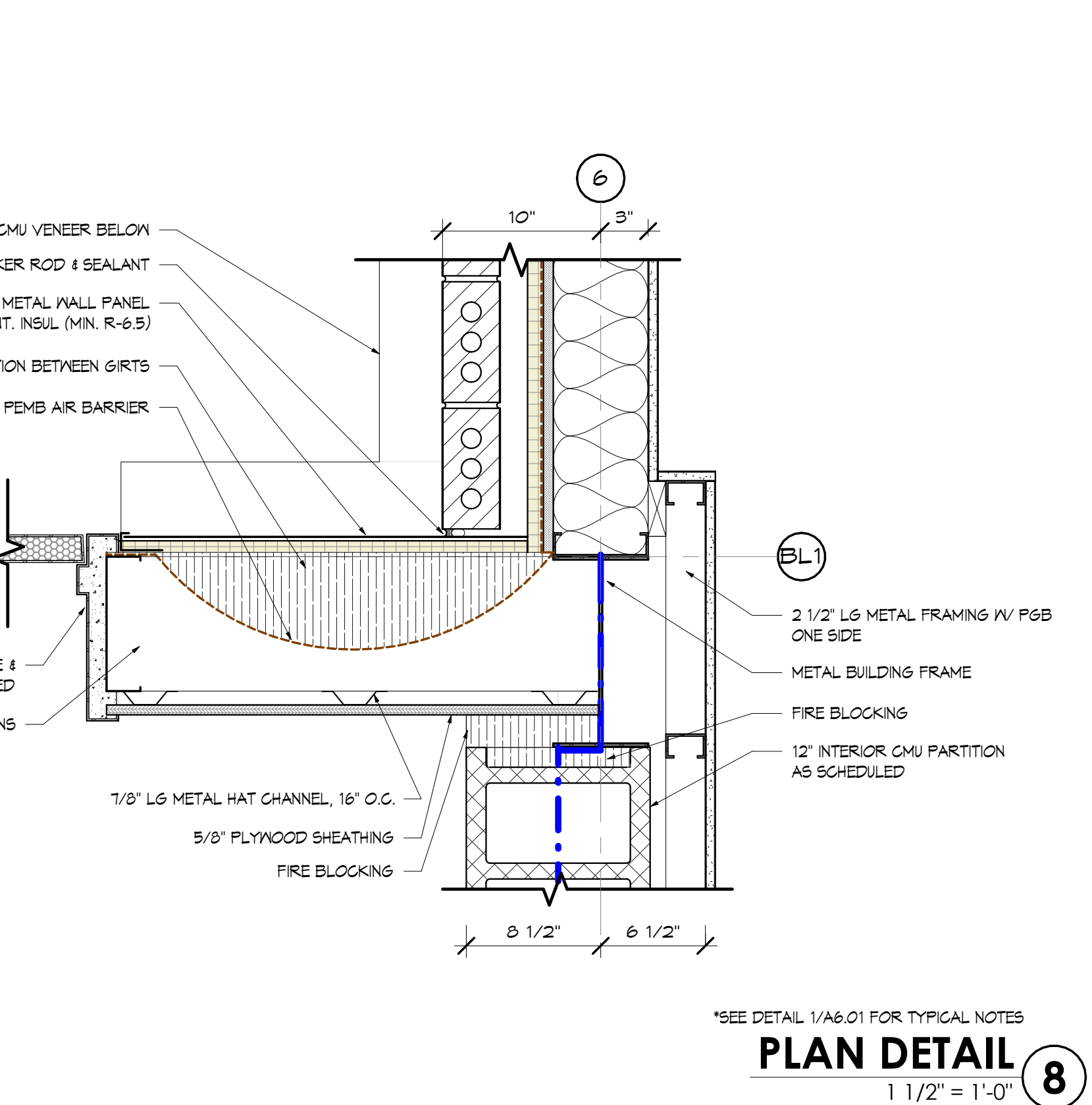
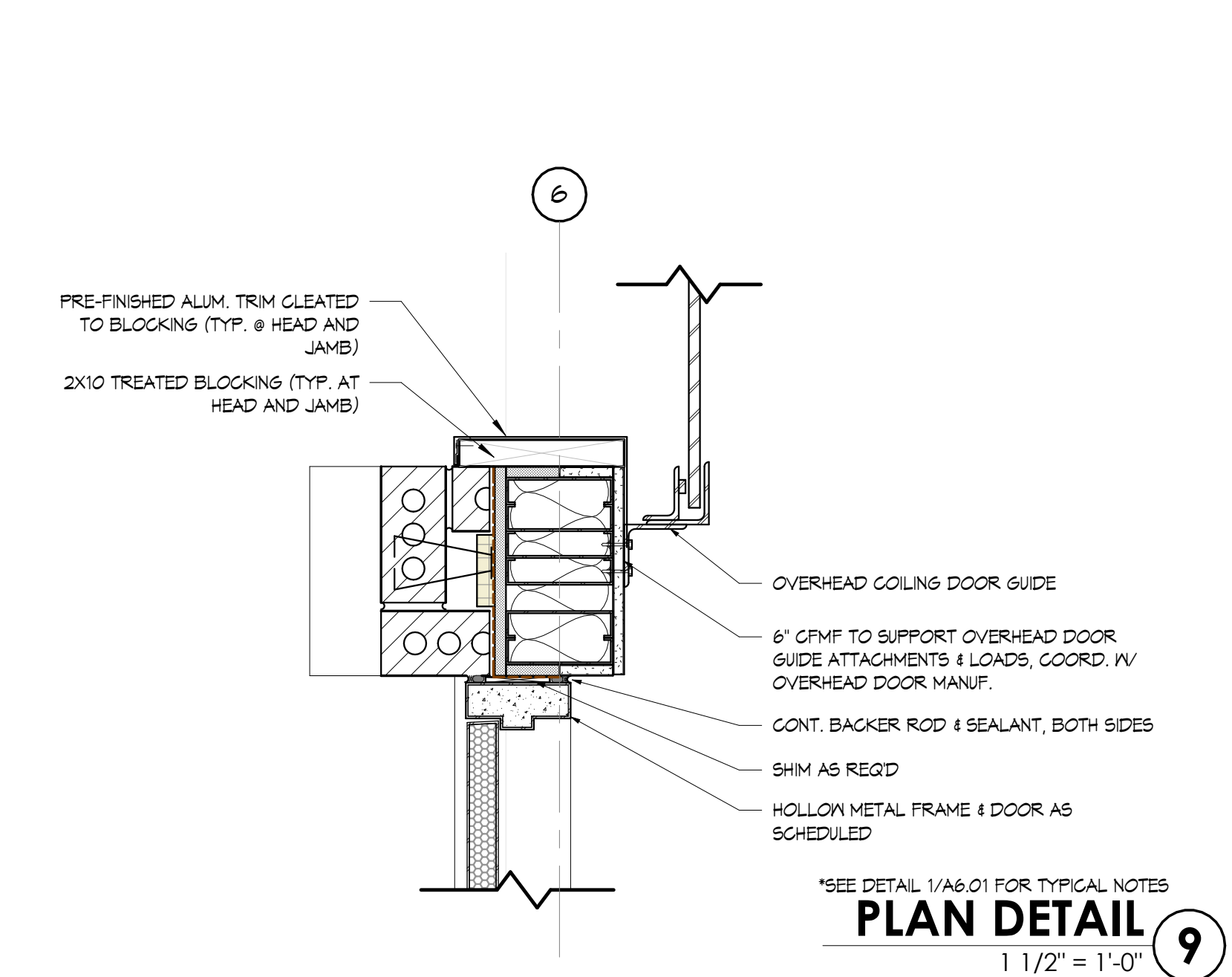
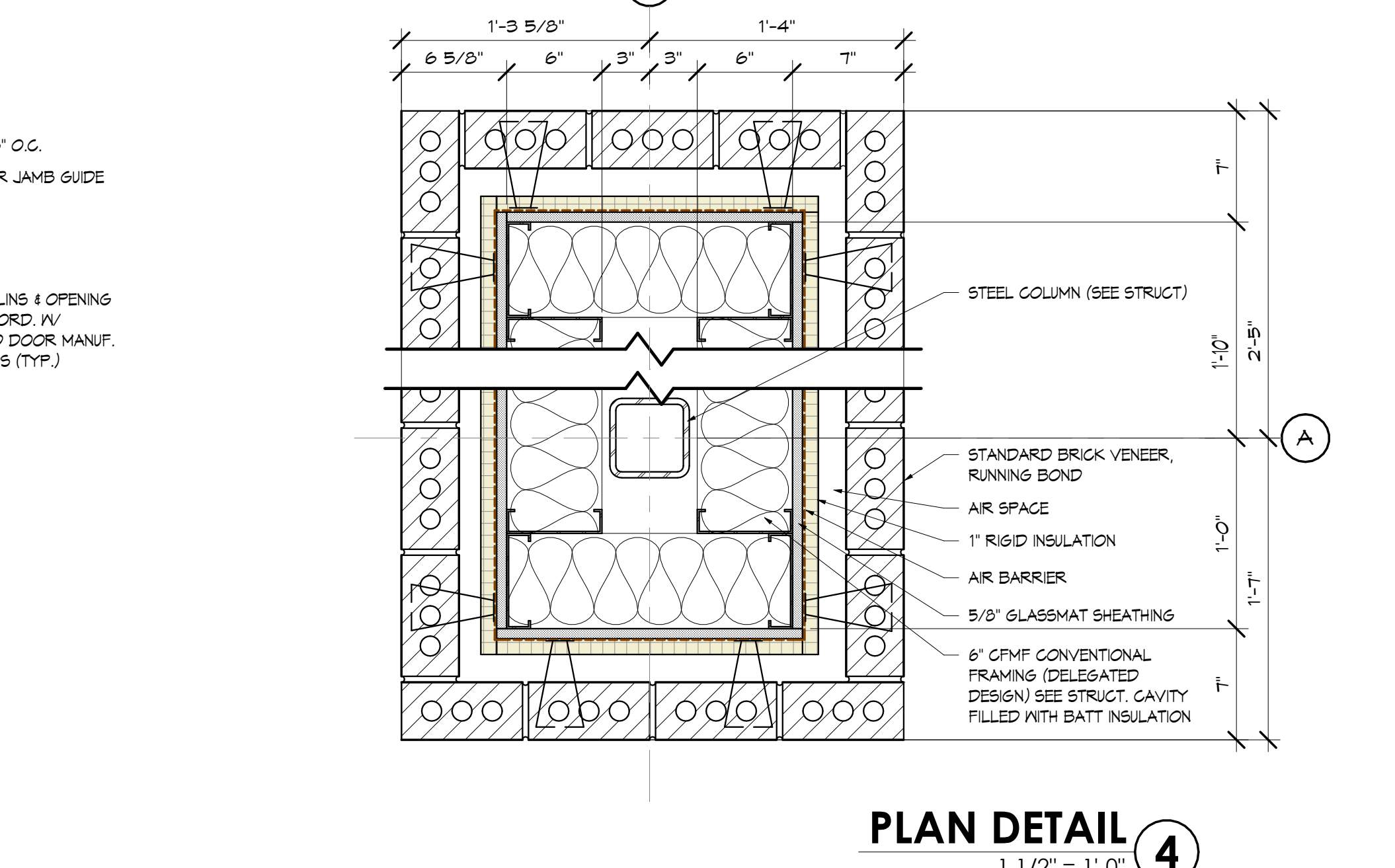
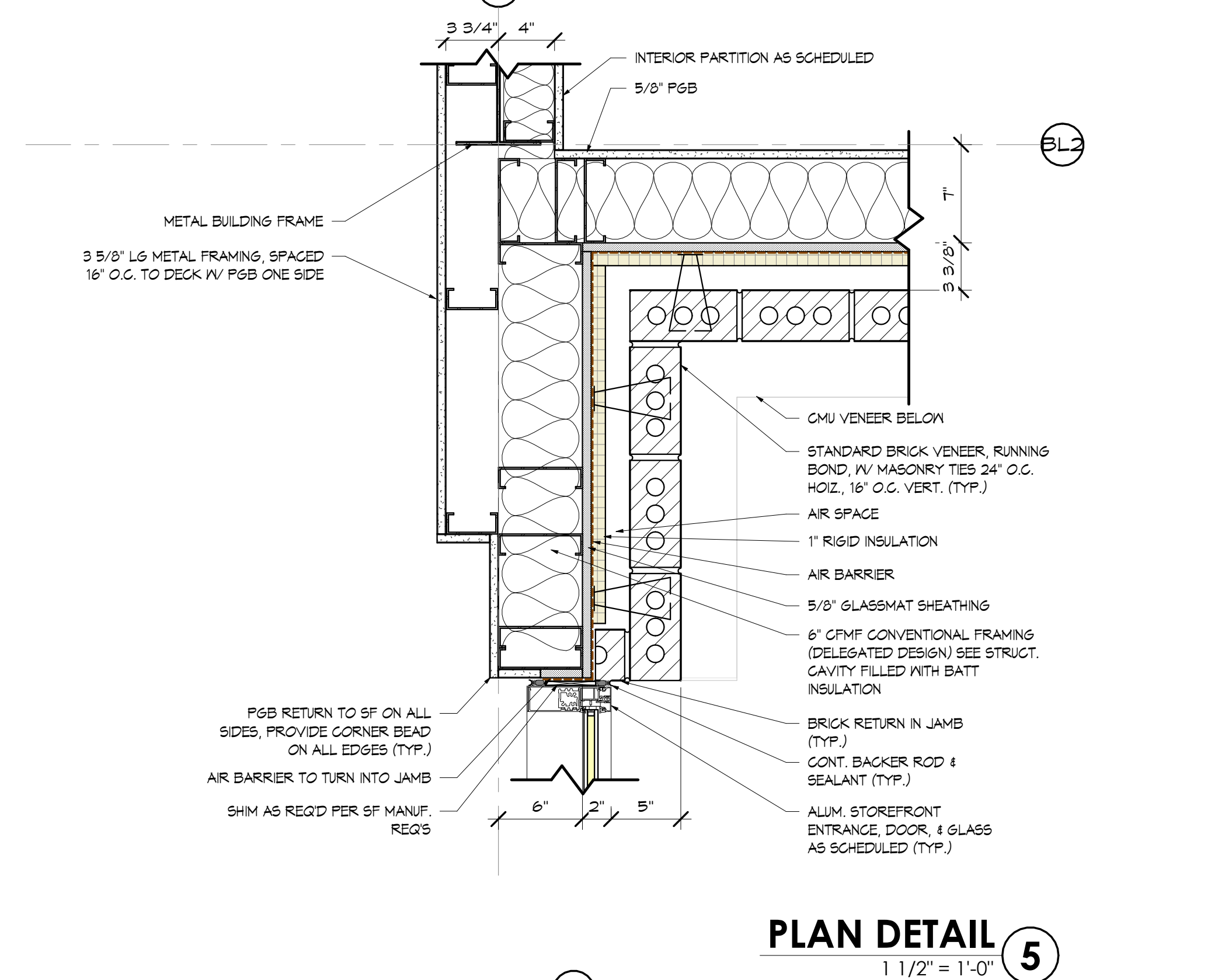
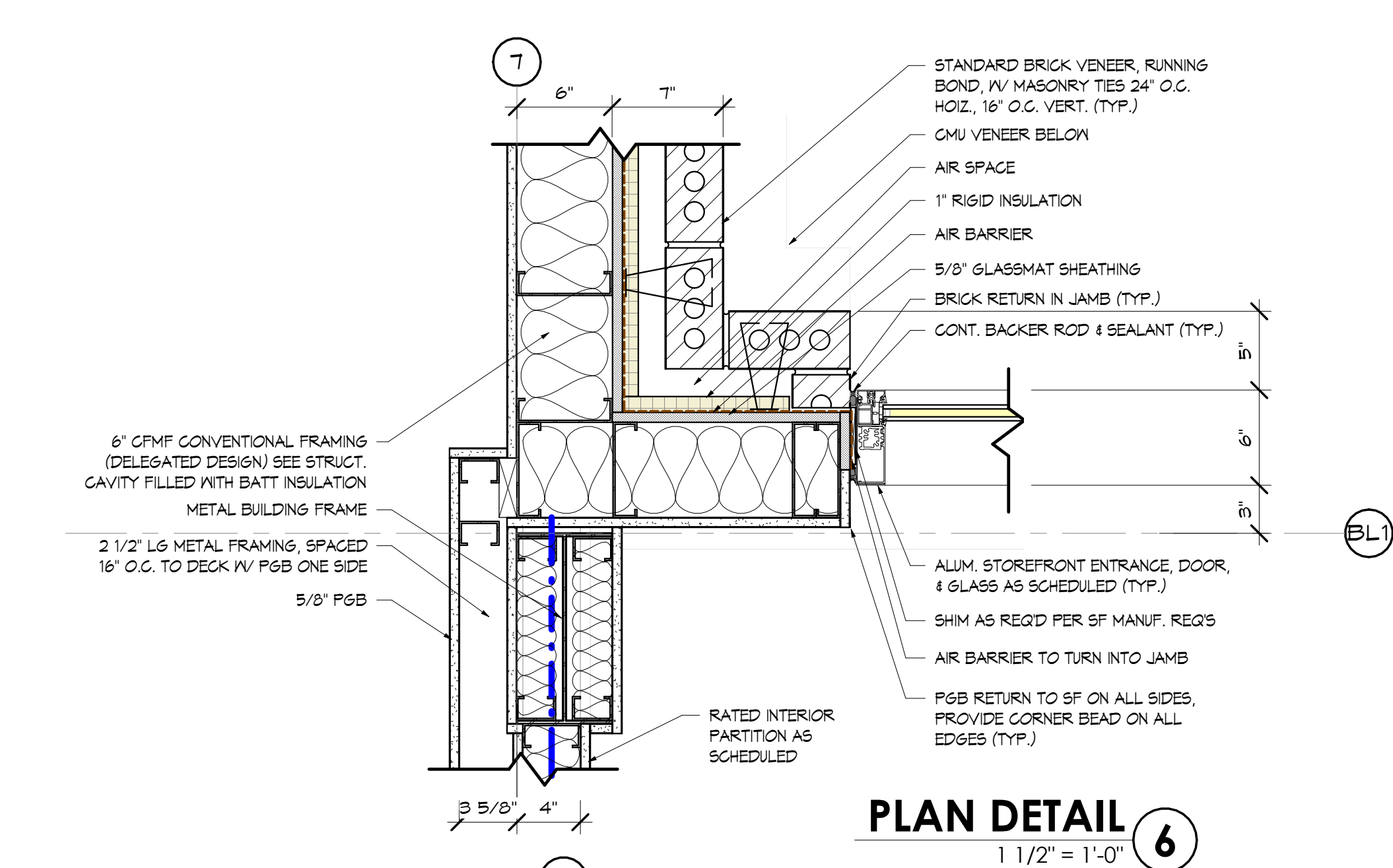
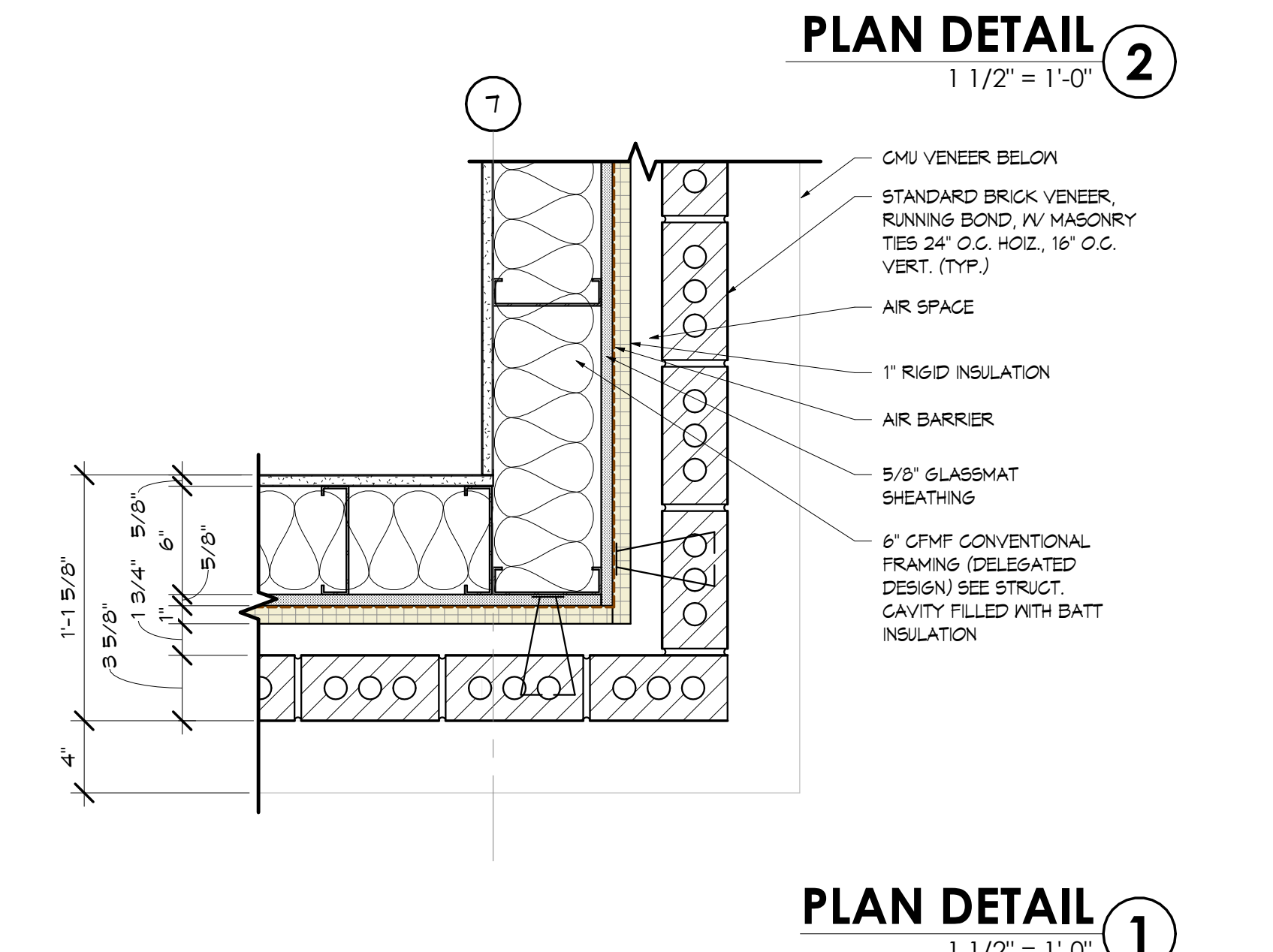
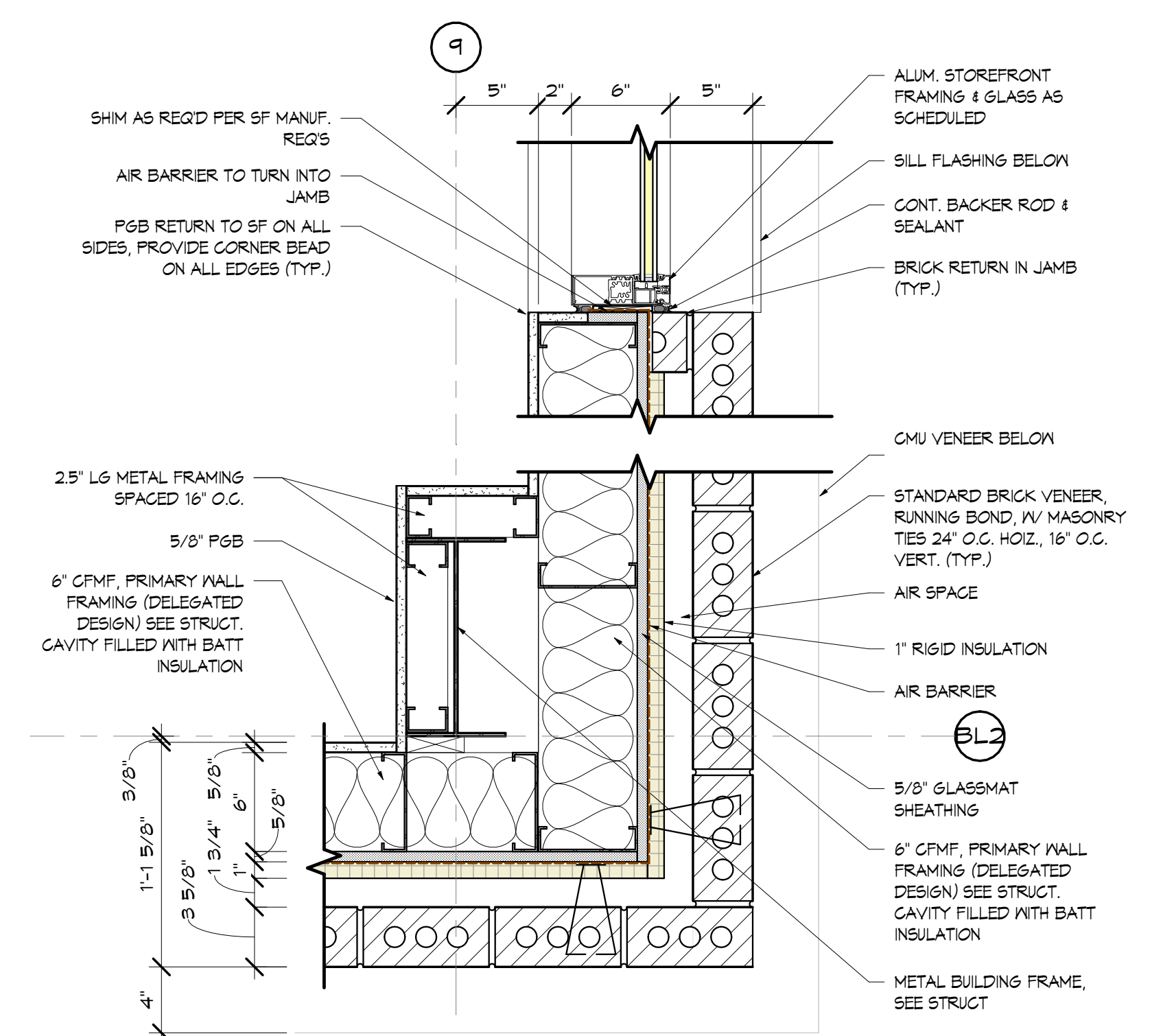
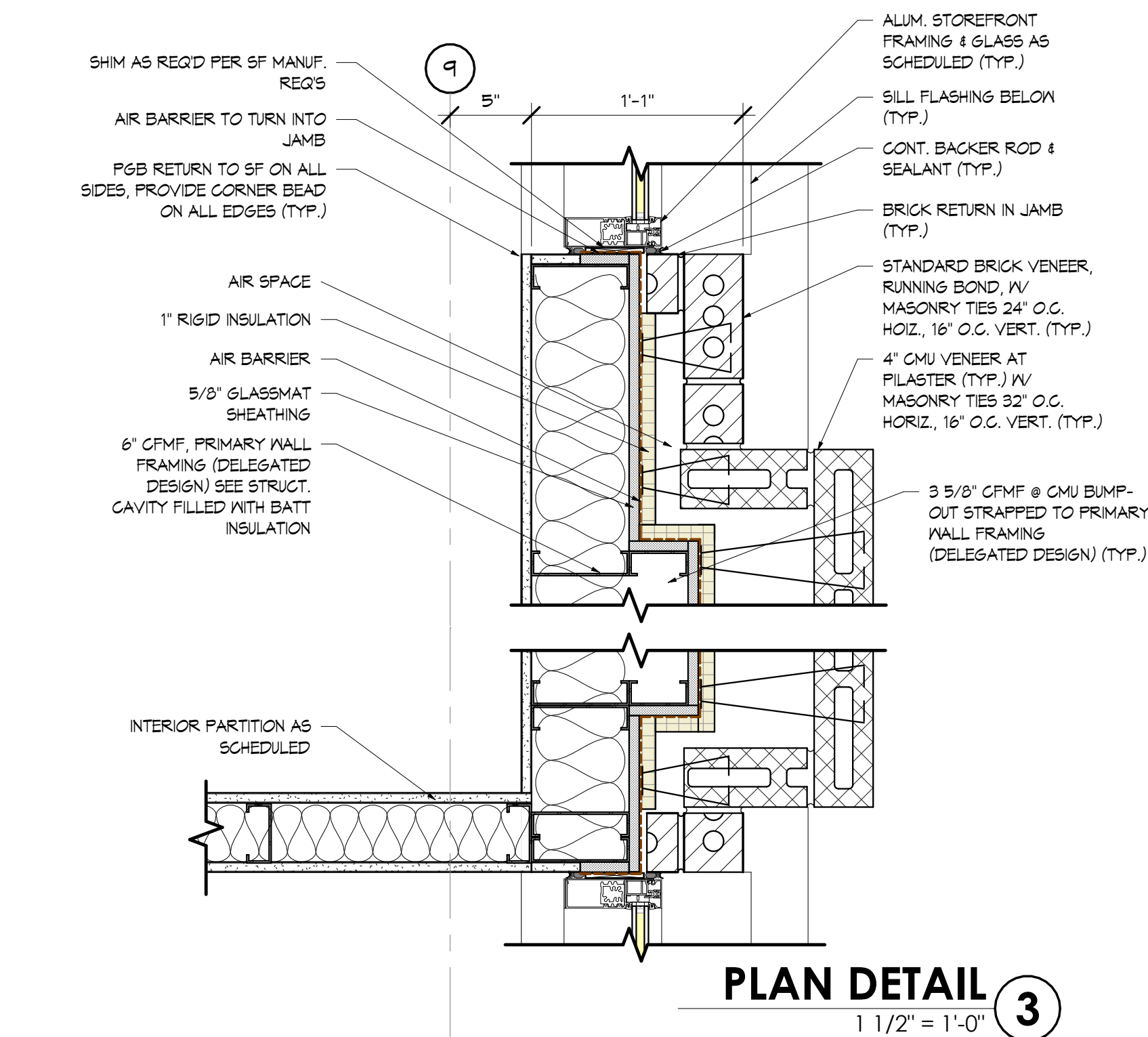
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PLAN DETAILS

A6.01





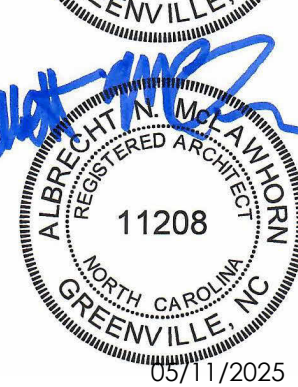
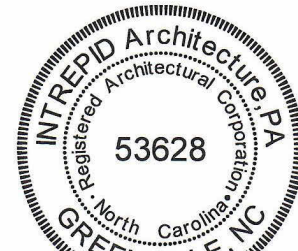
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MAYSVILLE, NC 28555



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#	DESC.	DATE

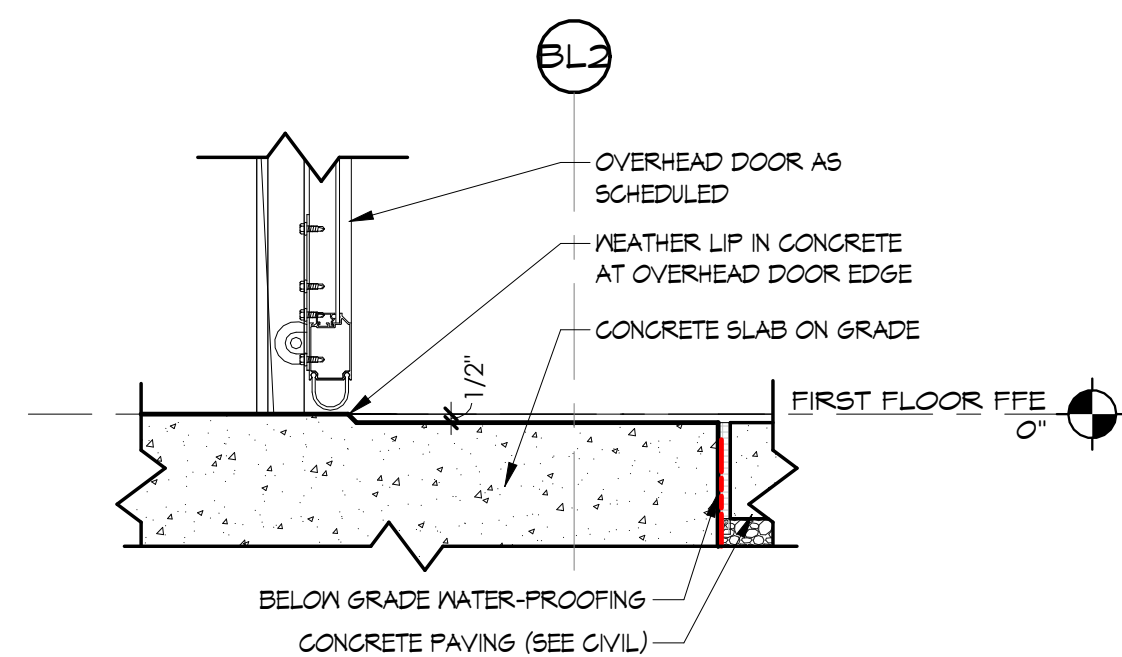
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PROJECT #: 24008
ISSUE DATE: 04/30/2025

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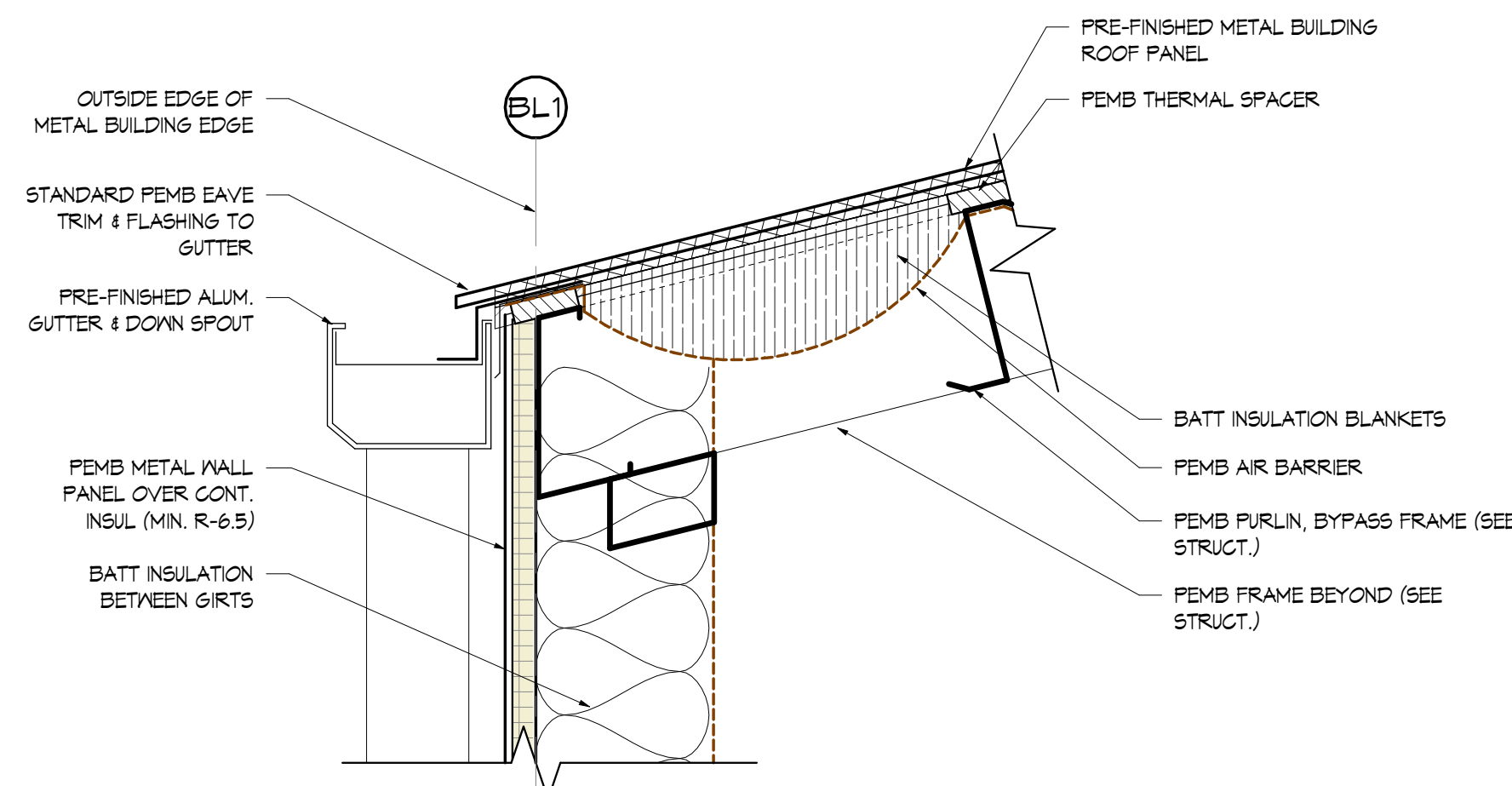
SHEET NAME & NUMBER

SECTION DETAILS

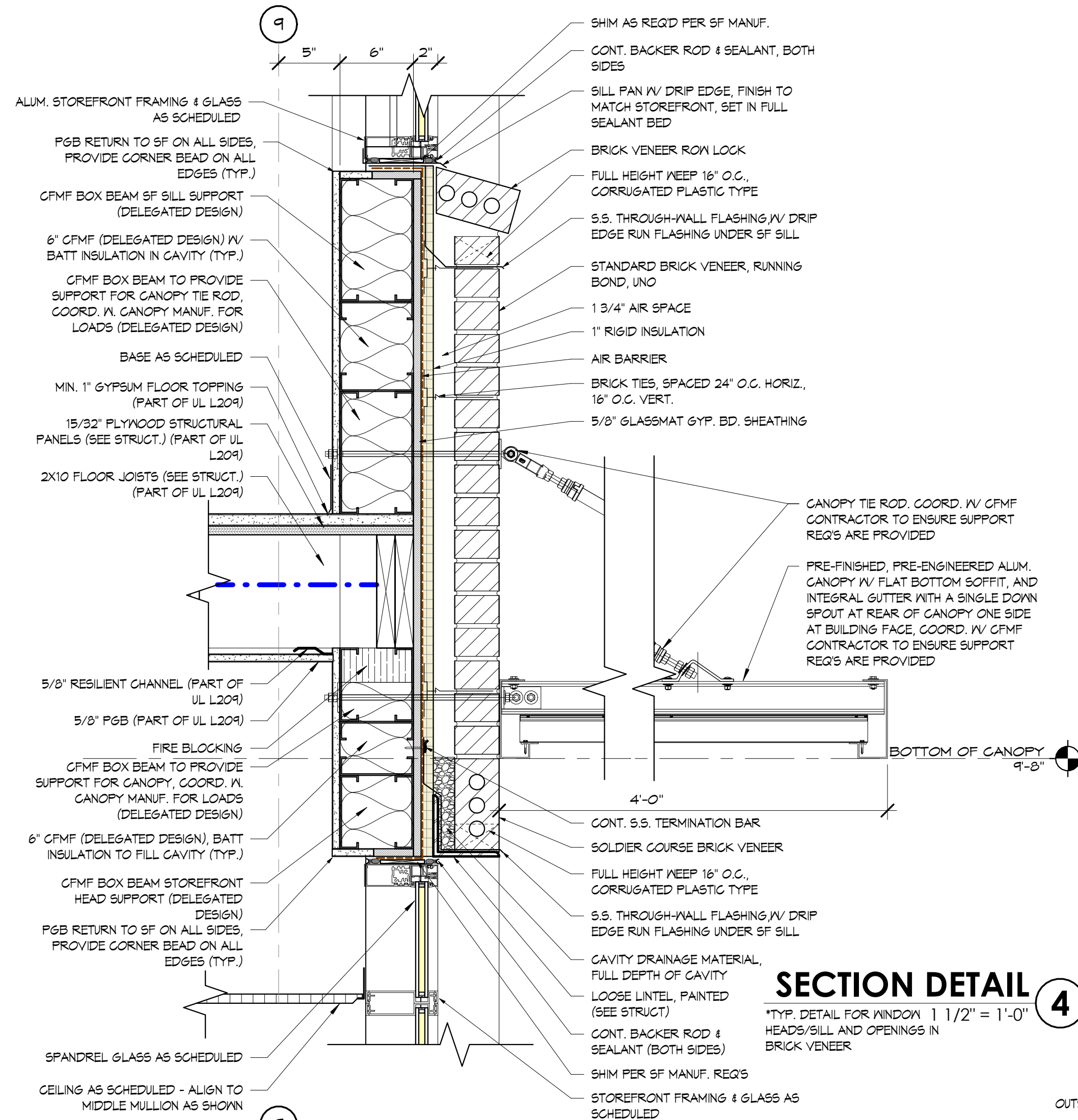
A6.10



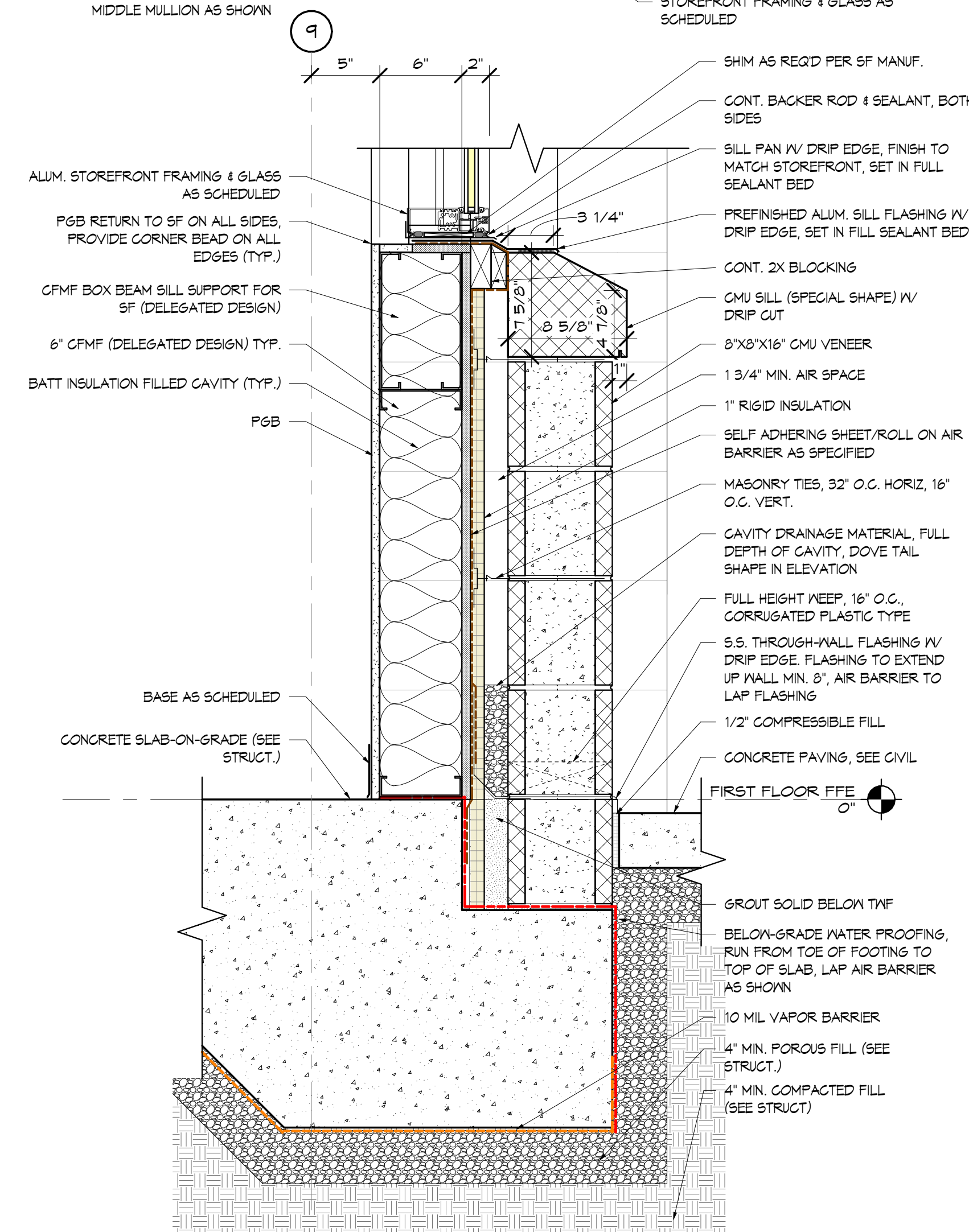
SECTION DETAIL - TYP. OHD SILL 8
1 1/2" = 1'-0"



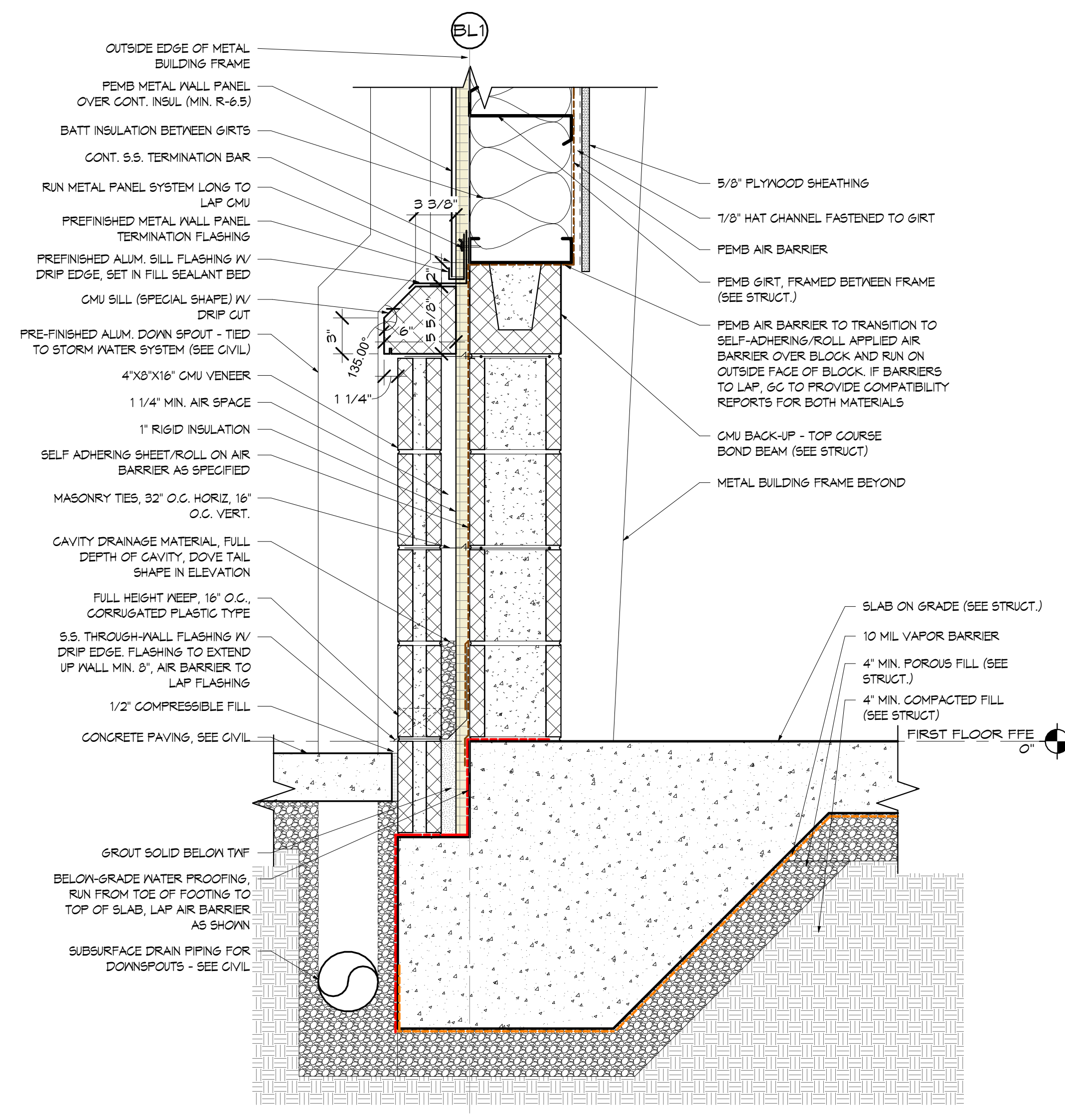
SECTION DETAIL - TYP. BAY WALL EAVE 2
1 1/2" = 1'-0"



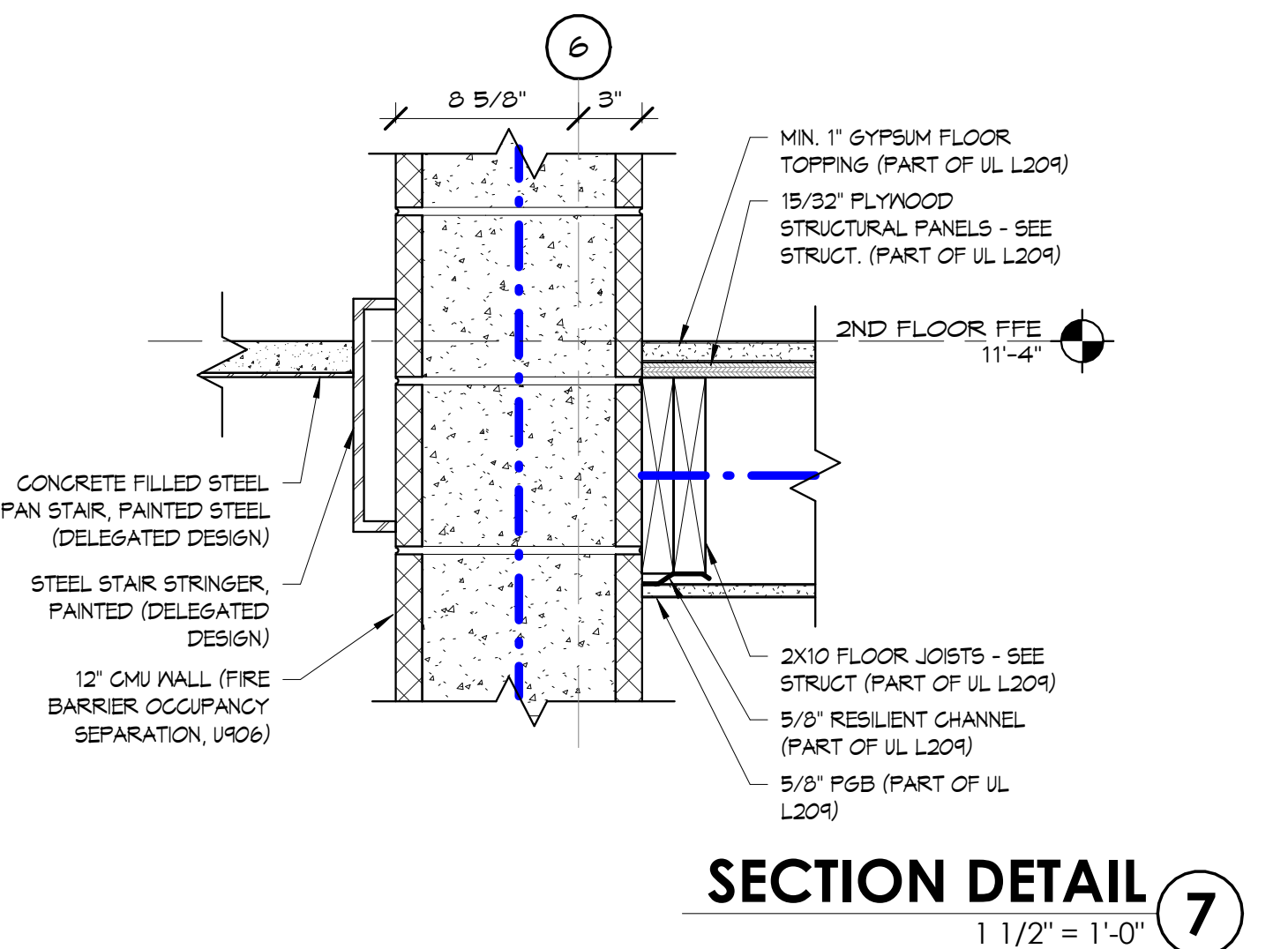
SECTION DETAIL 4
*TYP. DETAIL FOR WINDOW 1 1/2" = 1'-0"
HEADS/SILL AND OPENINGS IN BRICK VENEER



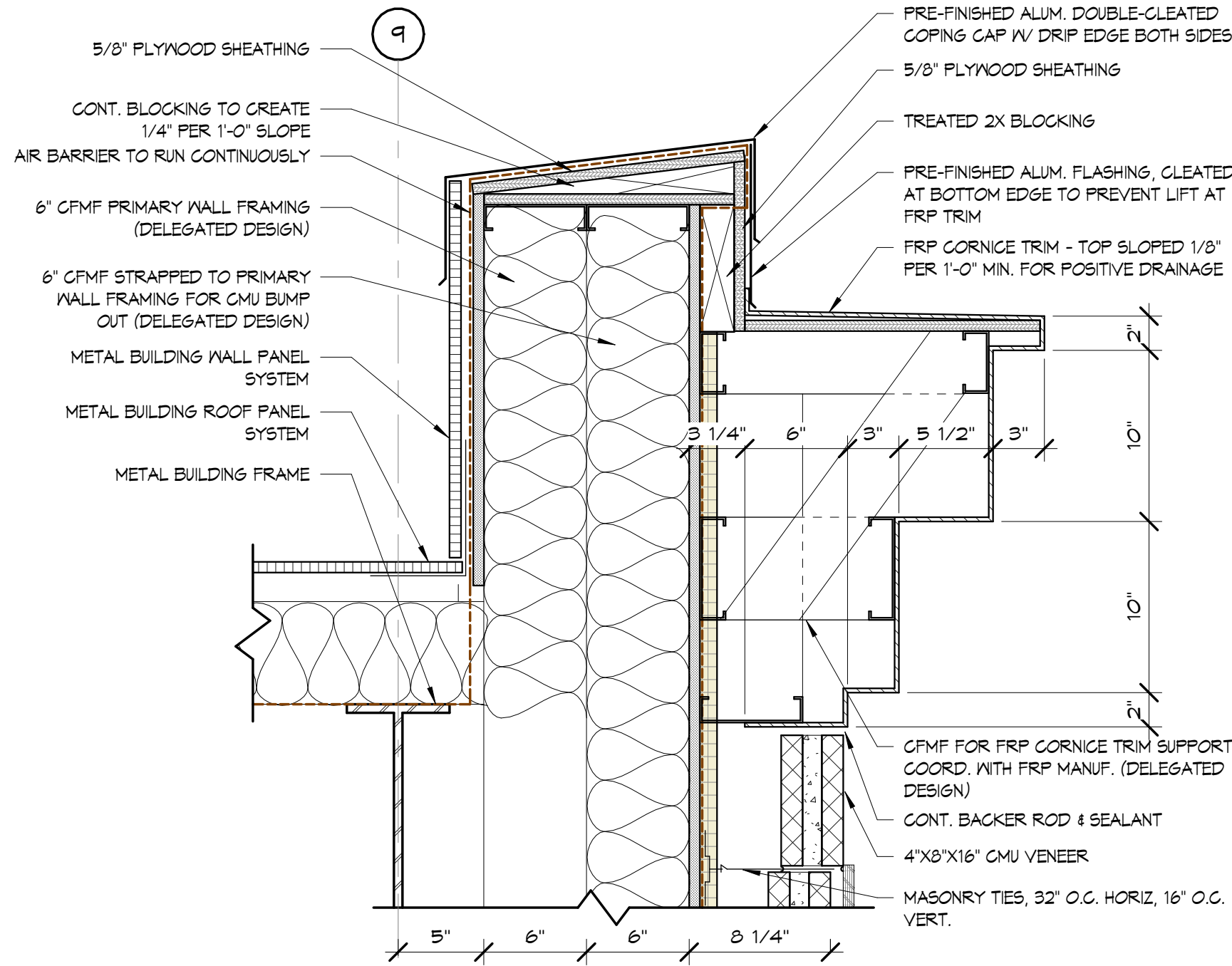
SECTION DETAIL - TYP. NON-BAY WALL BASE 3
1 1/2" = 1'-0"



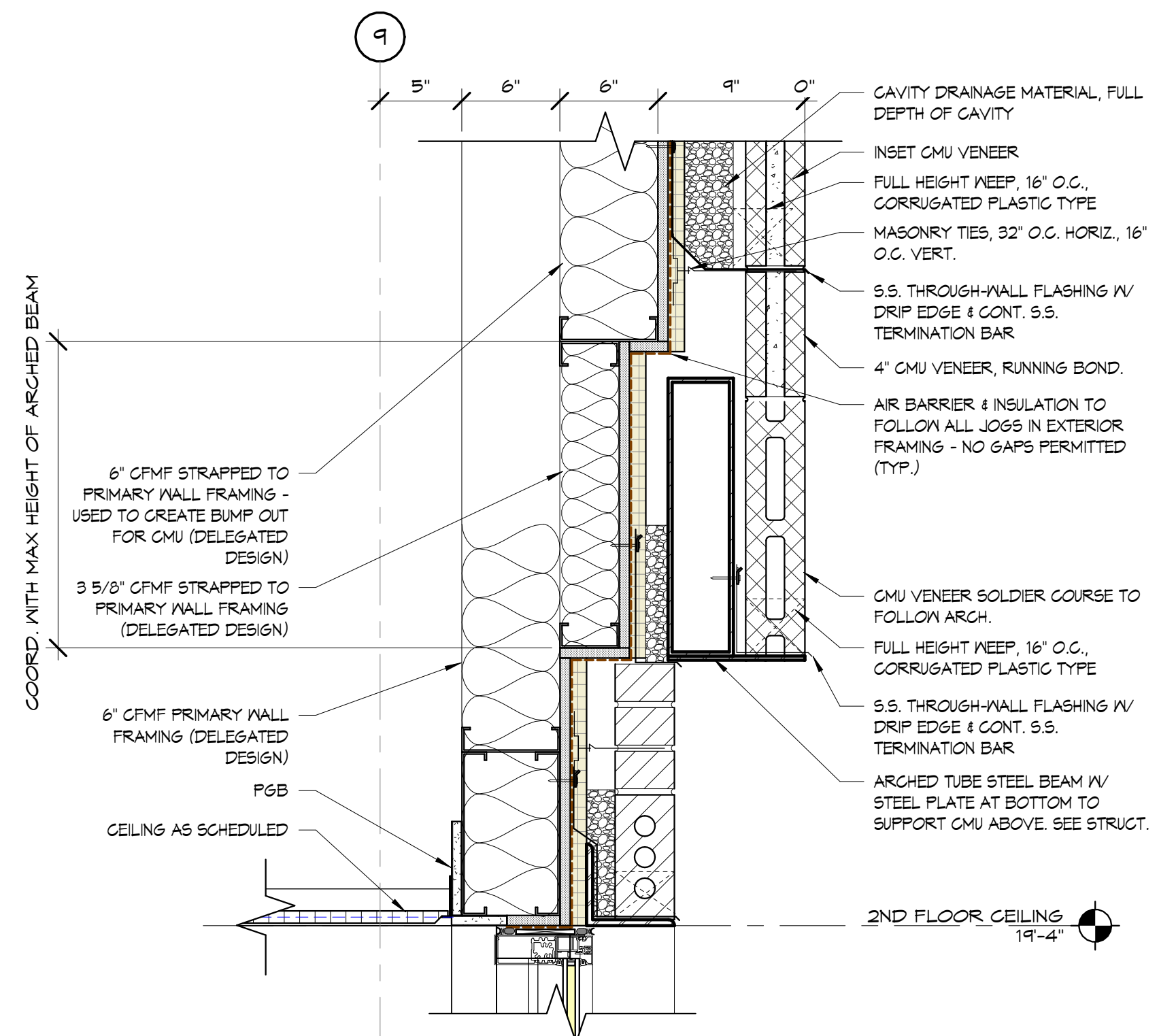
SECTION DETAIL - TYP. BAY WALL BASE 1
1 1/2" = 1'-0"



SECTION DETAIL 7
1 1/2" = 1'-0"



SECTION DETAIL 6
1 1/2" = 1'-0"



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

*SEE DETAIL 4/A6.10 FOR TYPICAL NOTES



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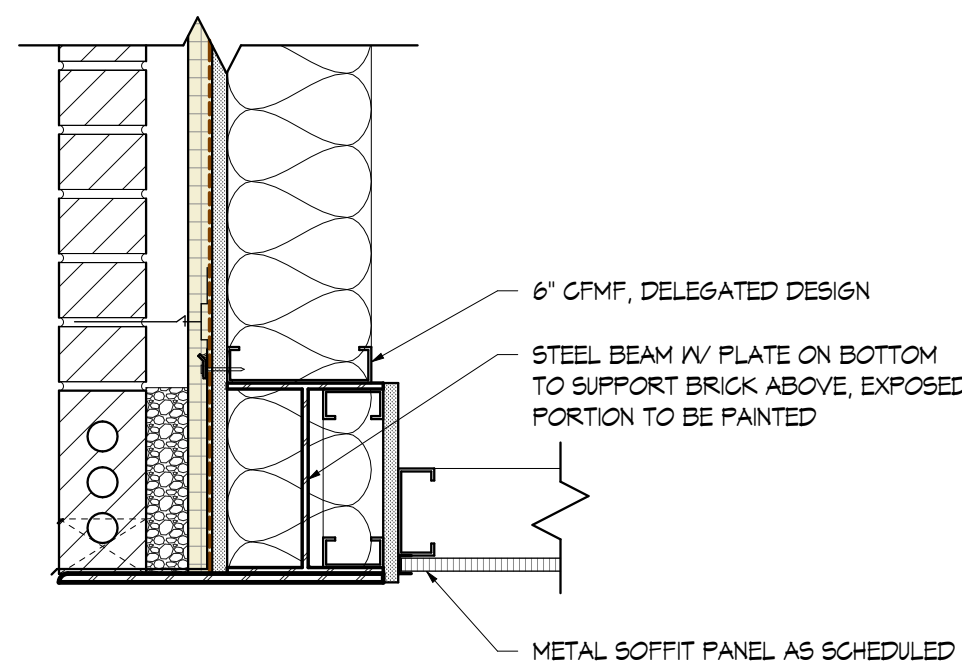
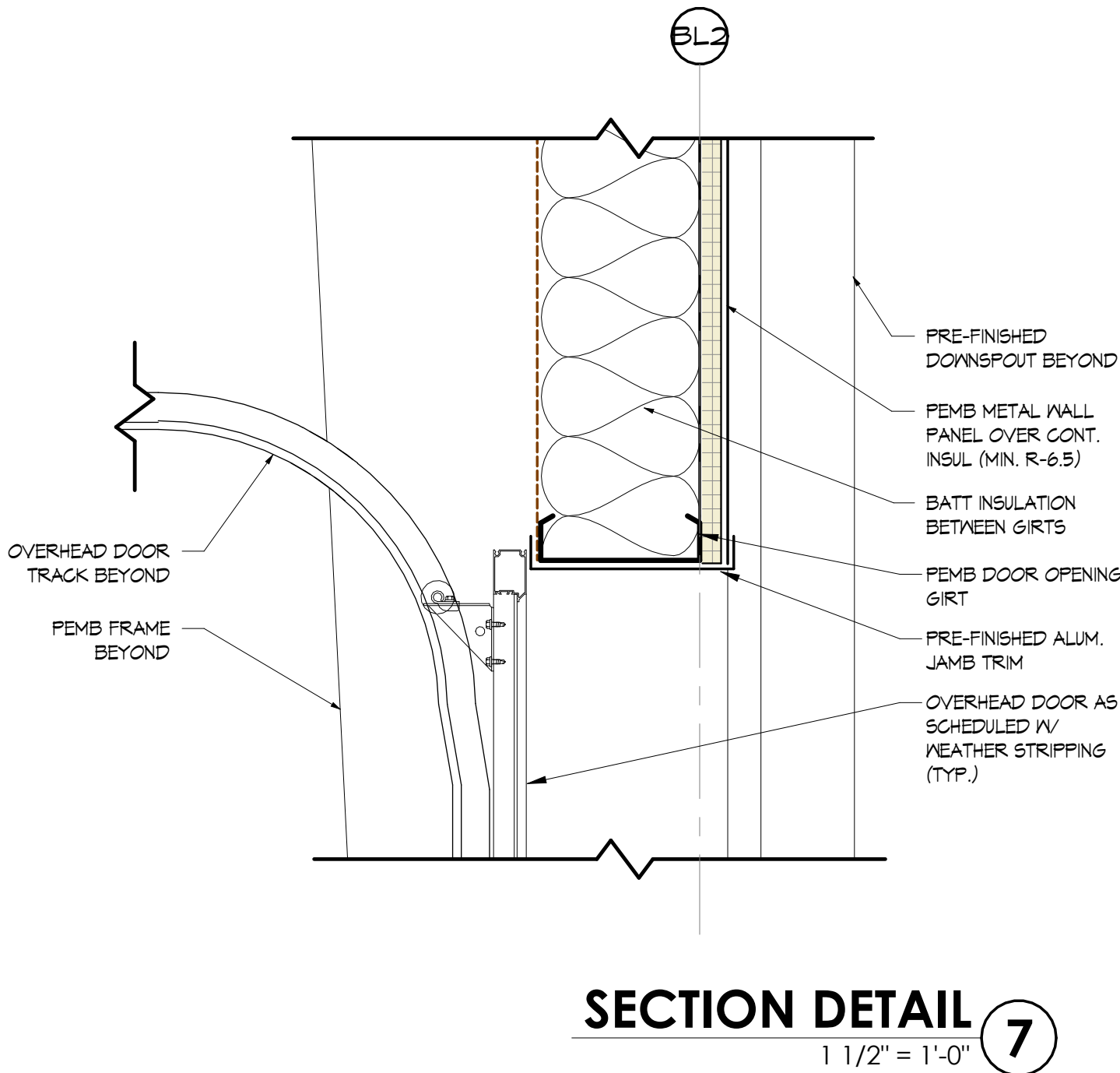
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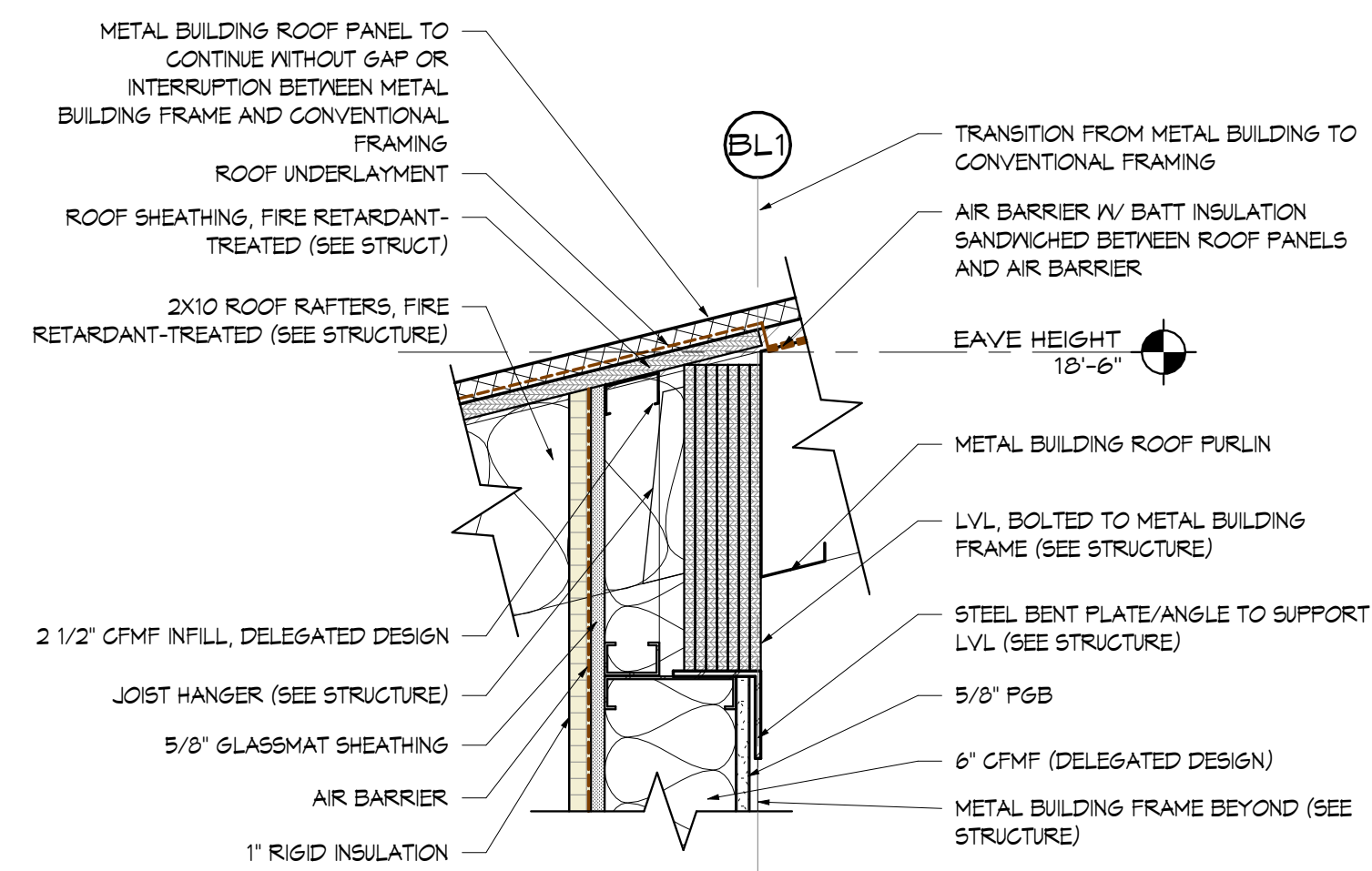
SHEET NAME & NUMBER

SECTION DETAILS

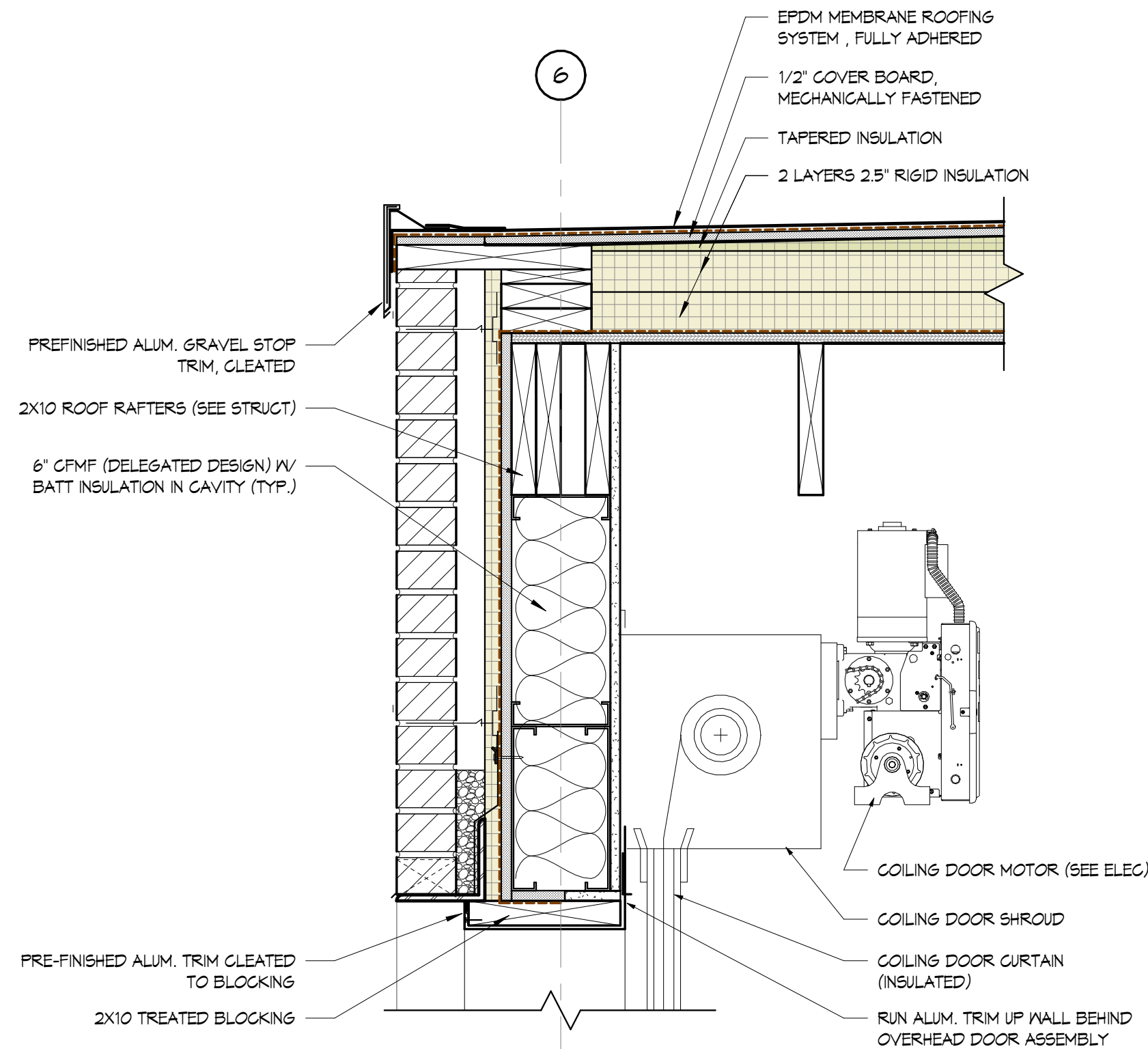
A6.11



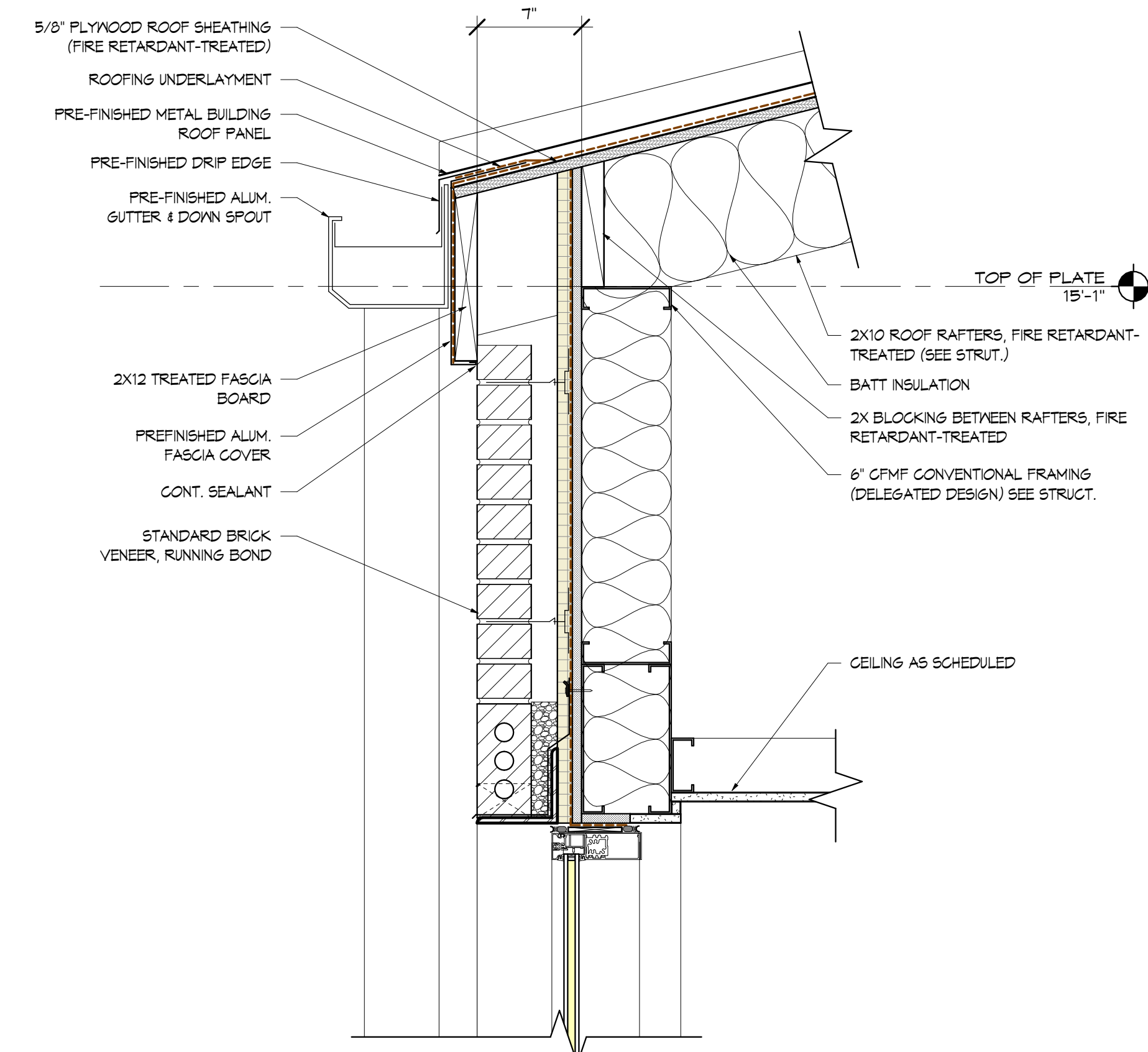
*SEE DETAIL 4/A6.10 FOR TYPICAL NOTES



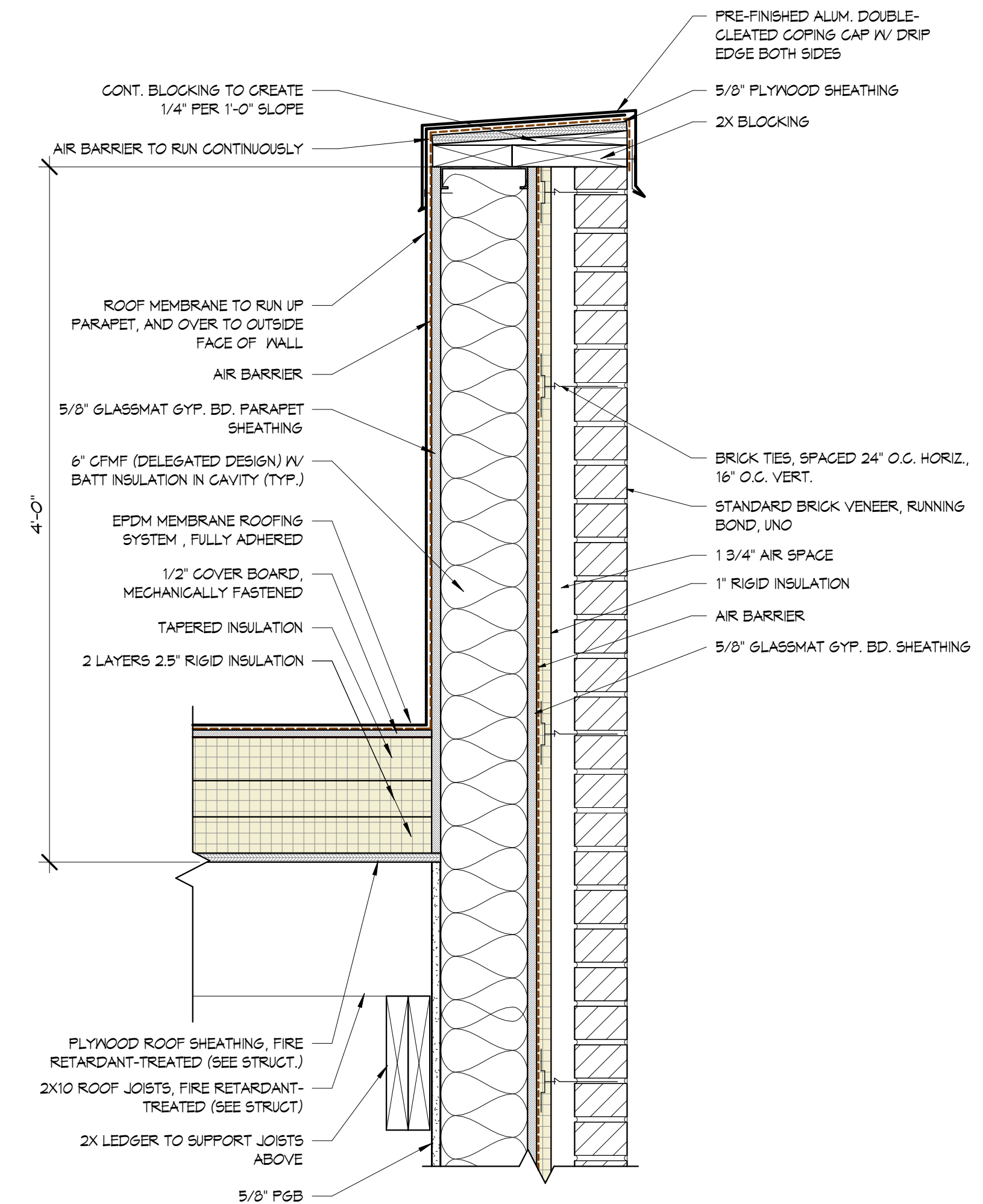
*SEE DETAIL 4/A6.10 FOR TYPICAL NOTES



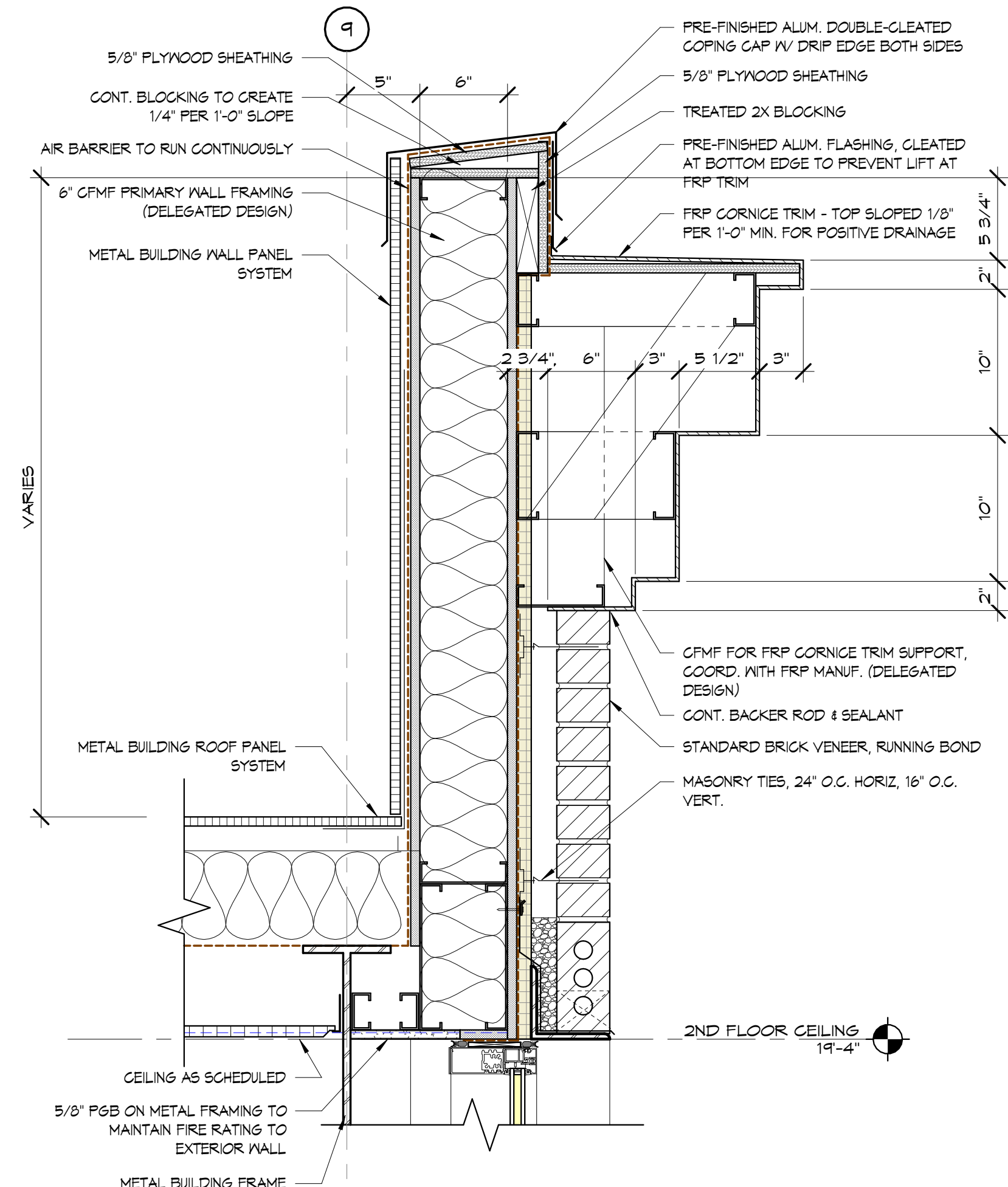
*SEE DETAIL 4/A6.10 FOR TYPICAL NOTES



*SEE DETAIL 4/A6.10 FOR TYPICAL NOTES



SECTION DETAIL 2
1 1/2" = 1'-0"



*SEE DETAIL 4/A6.10 FOR TYPICAL NOTES



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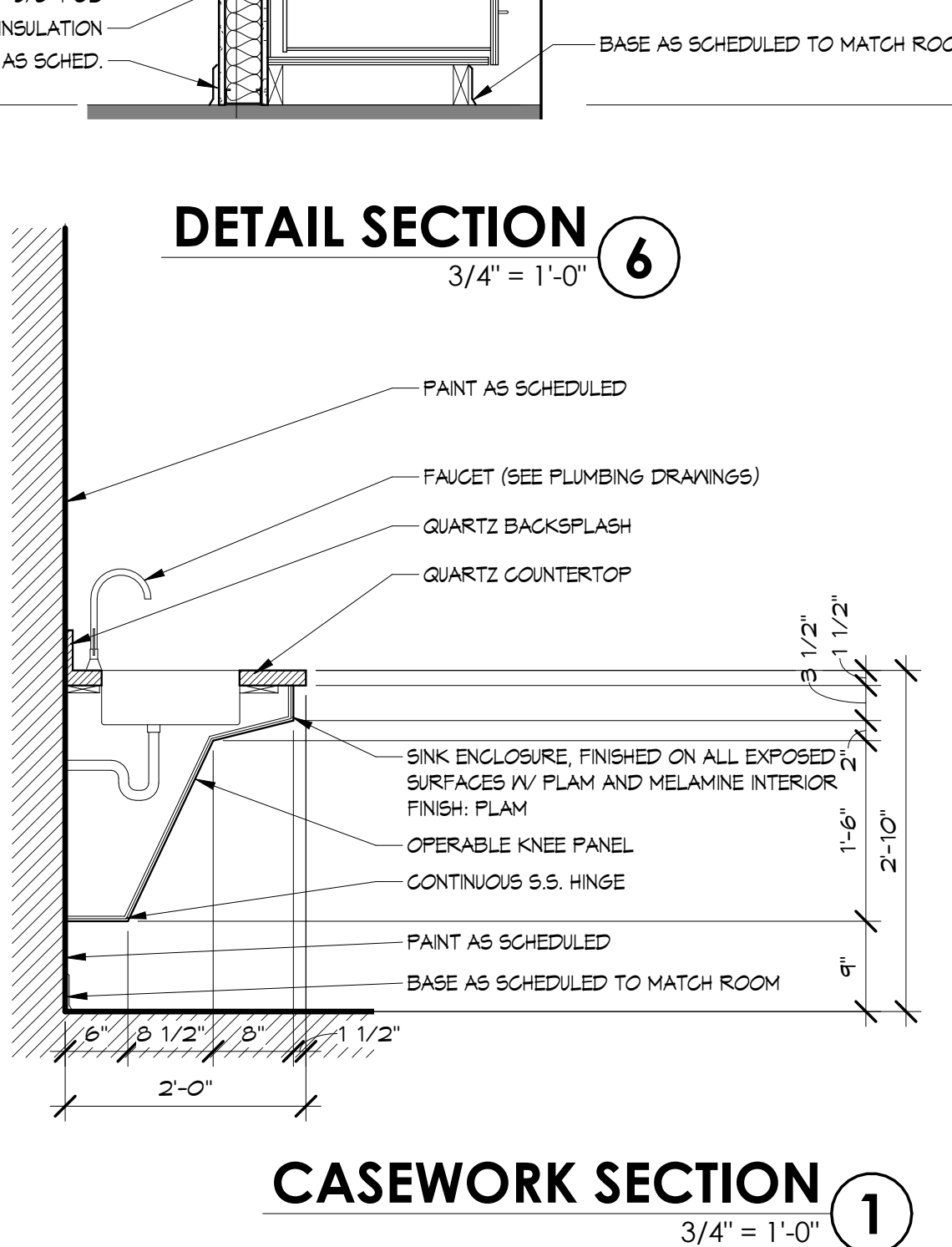
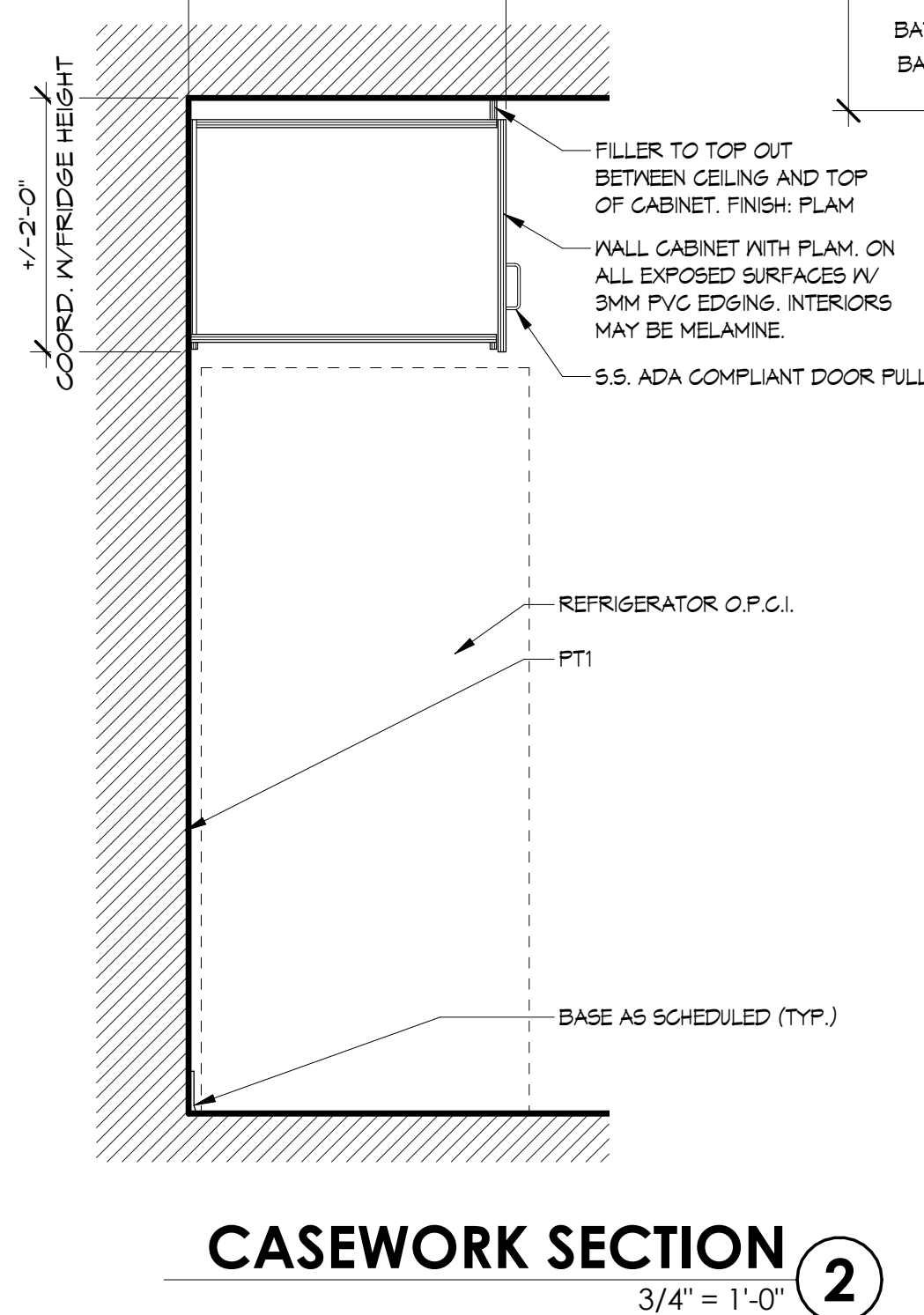
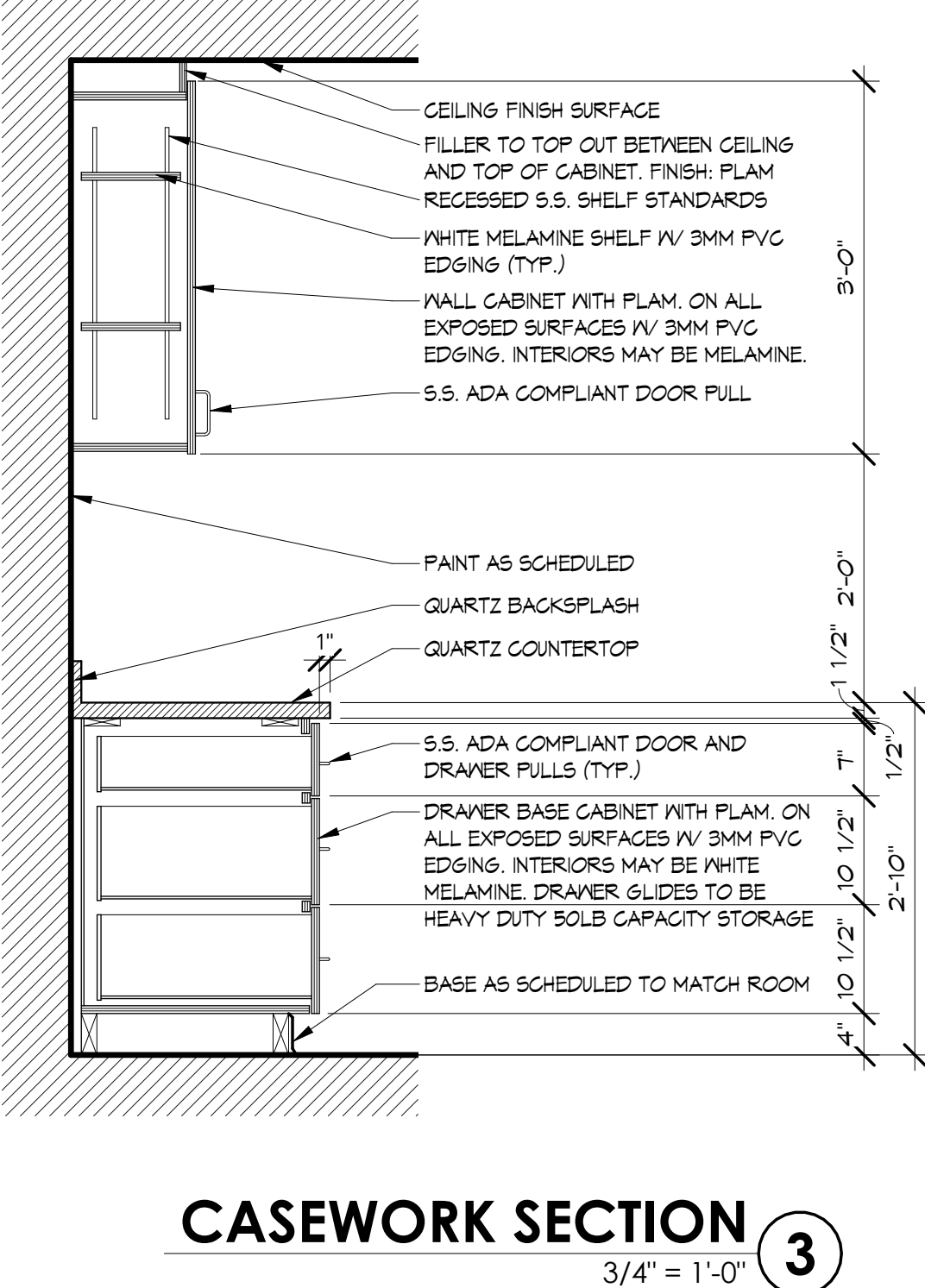
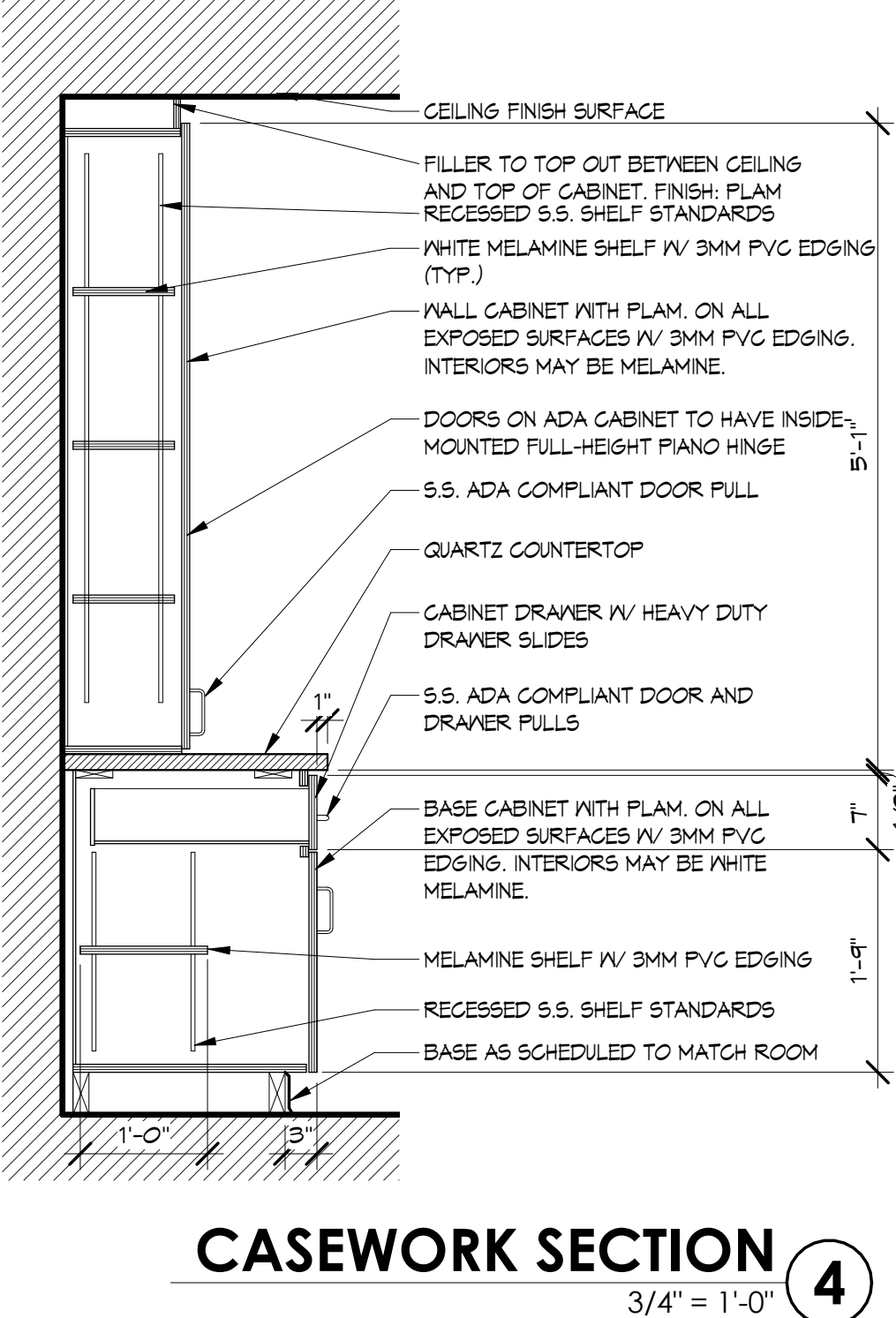
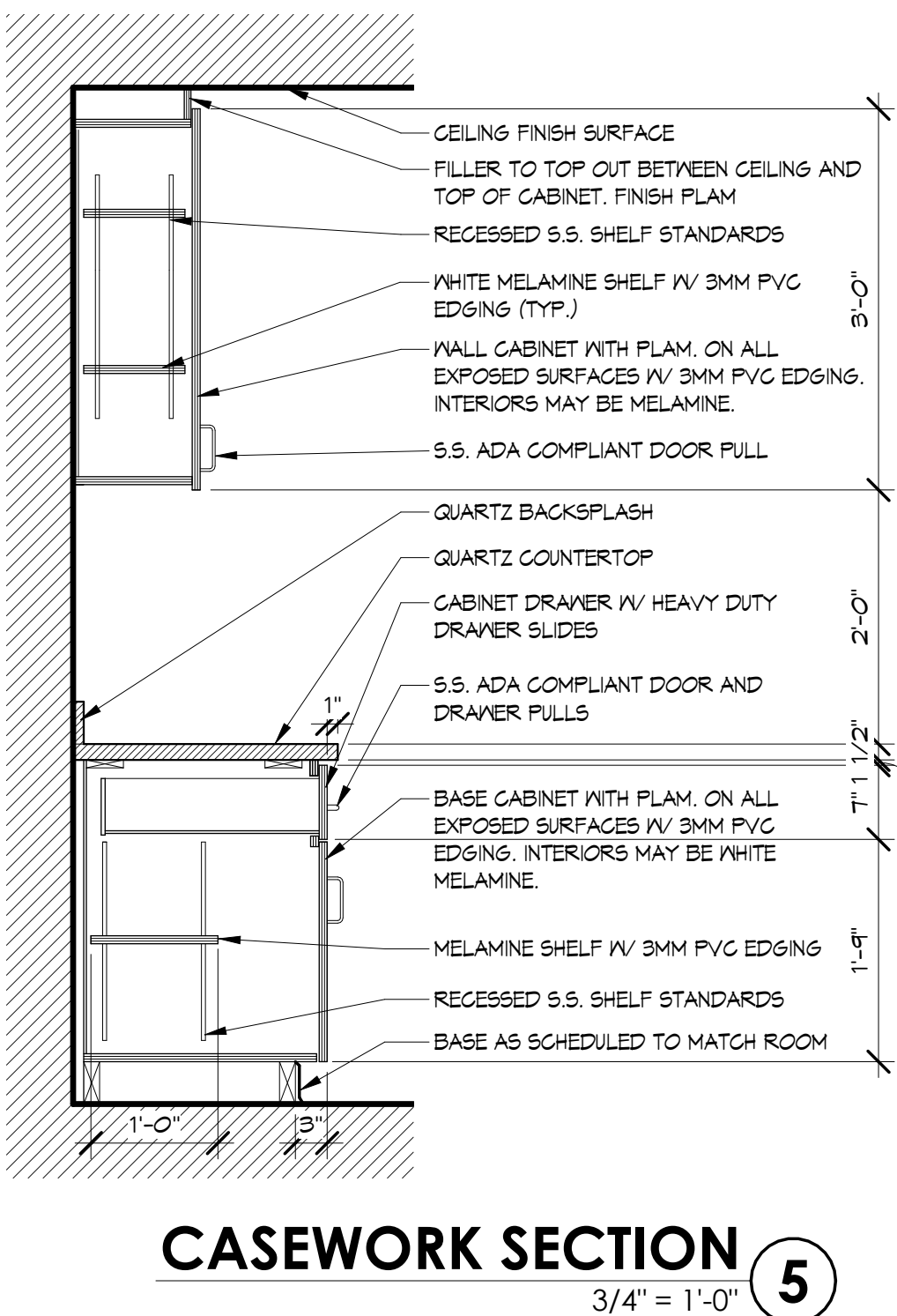
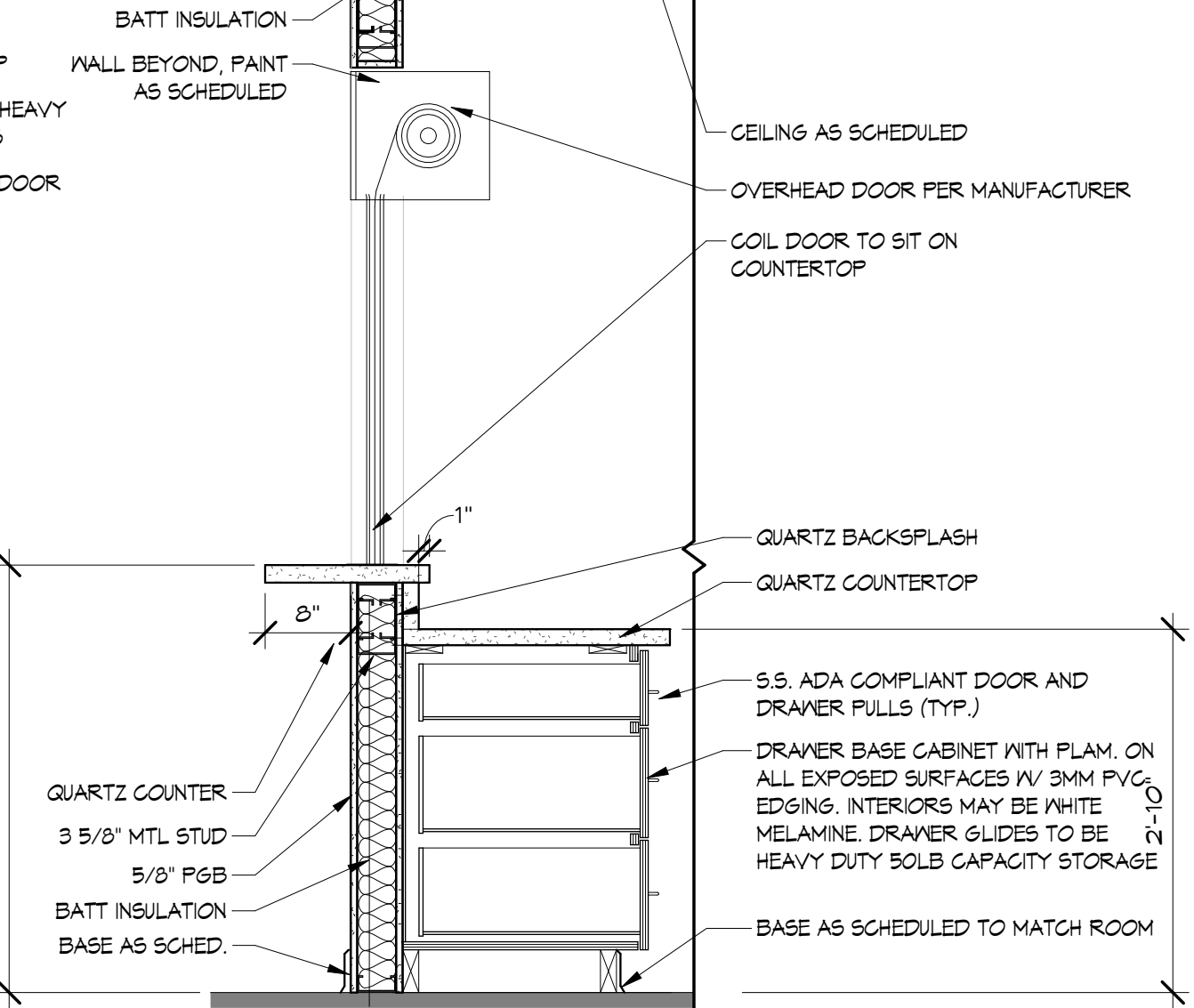
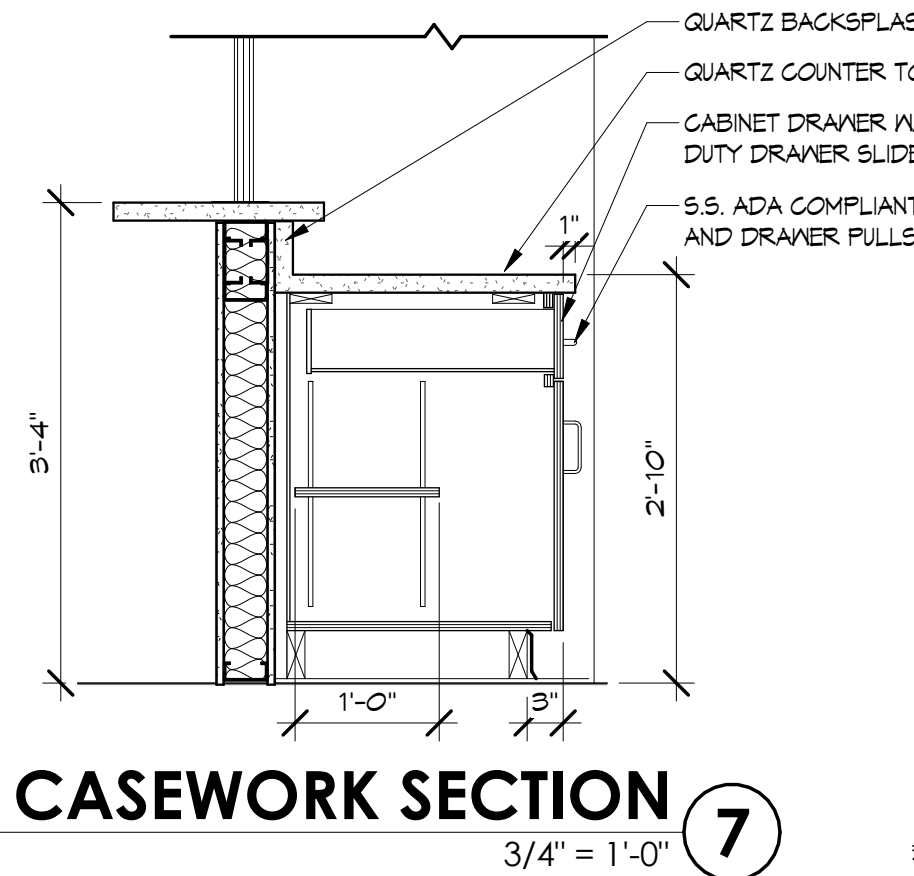
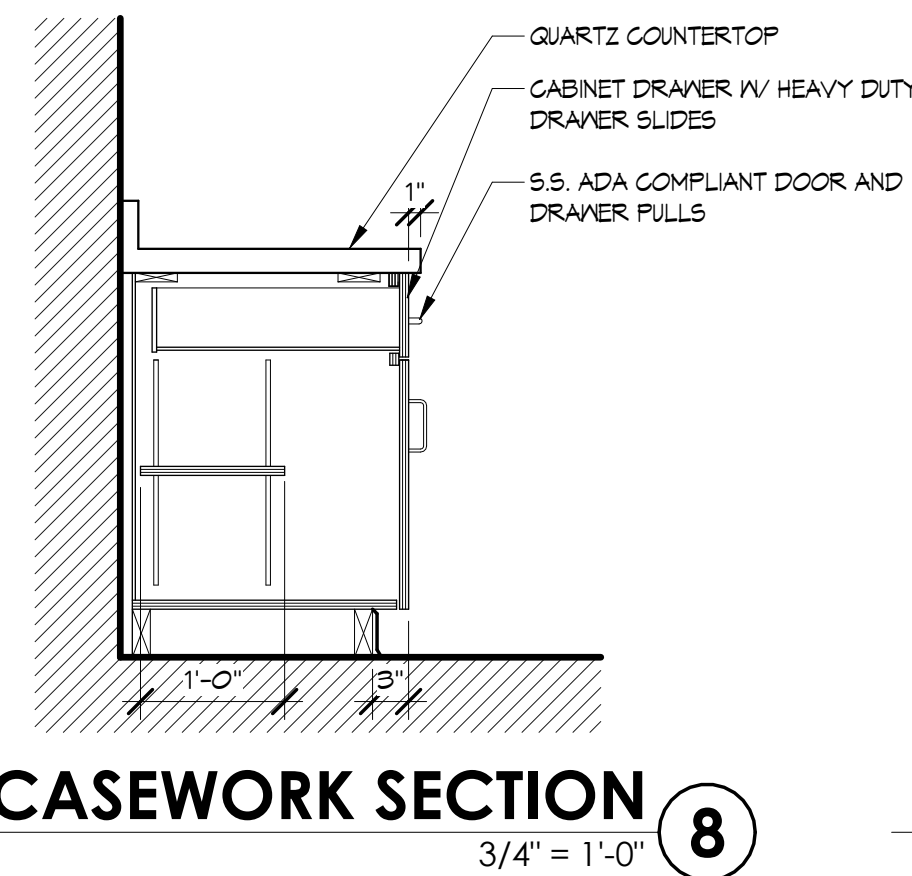
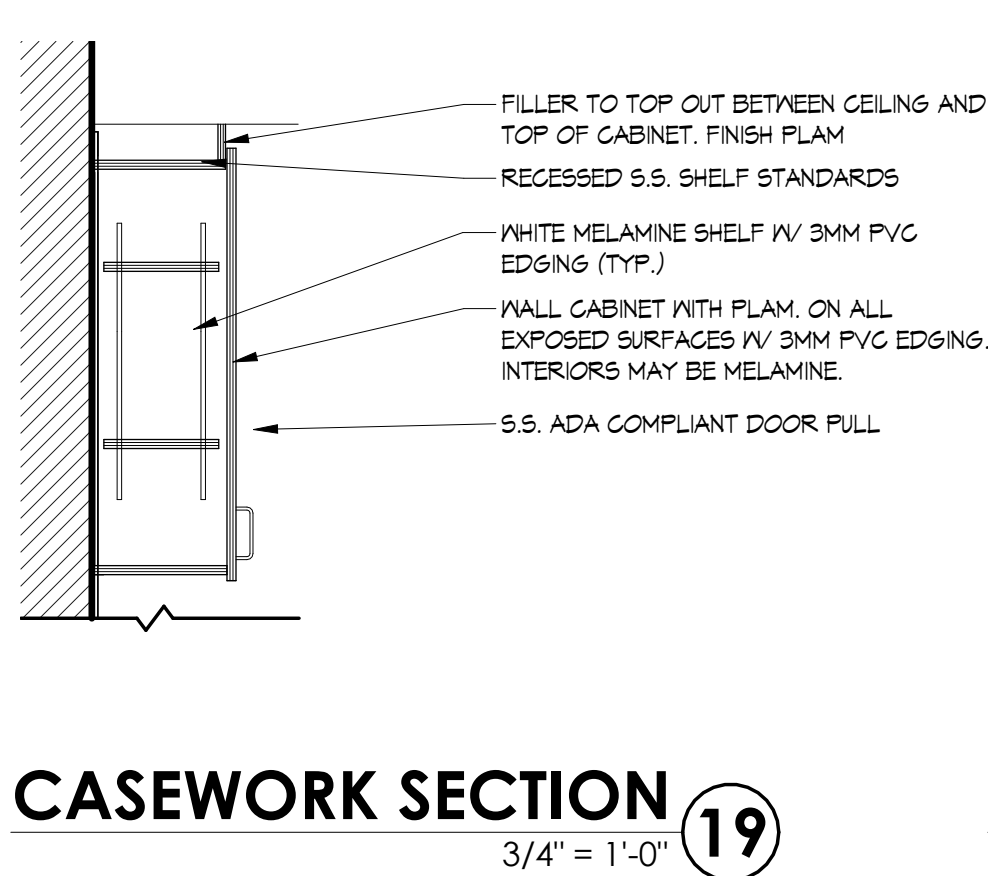
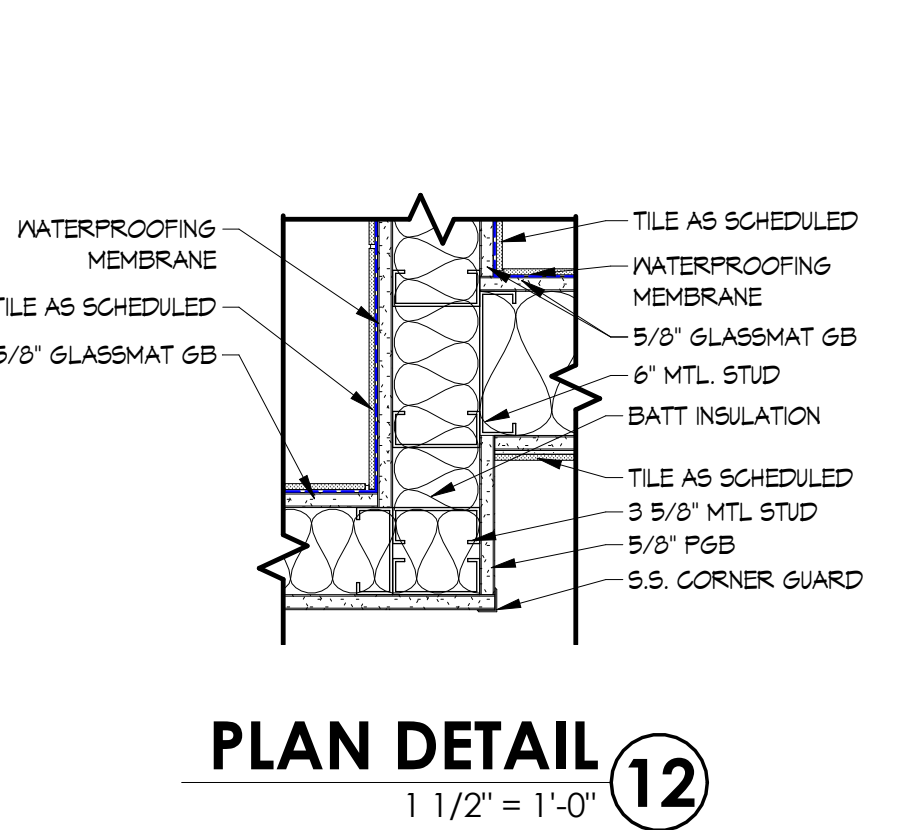
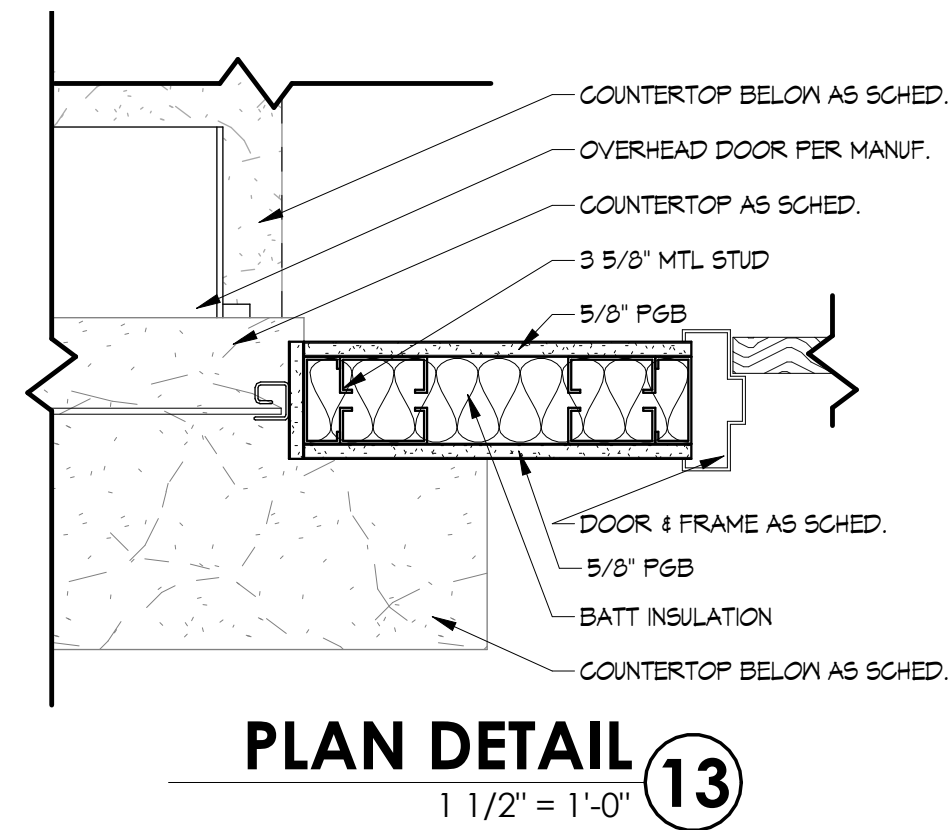
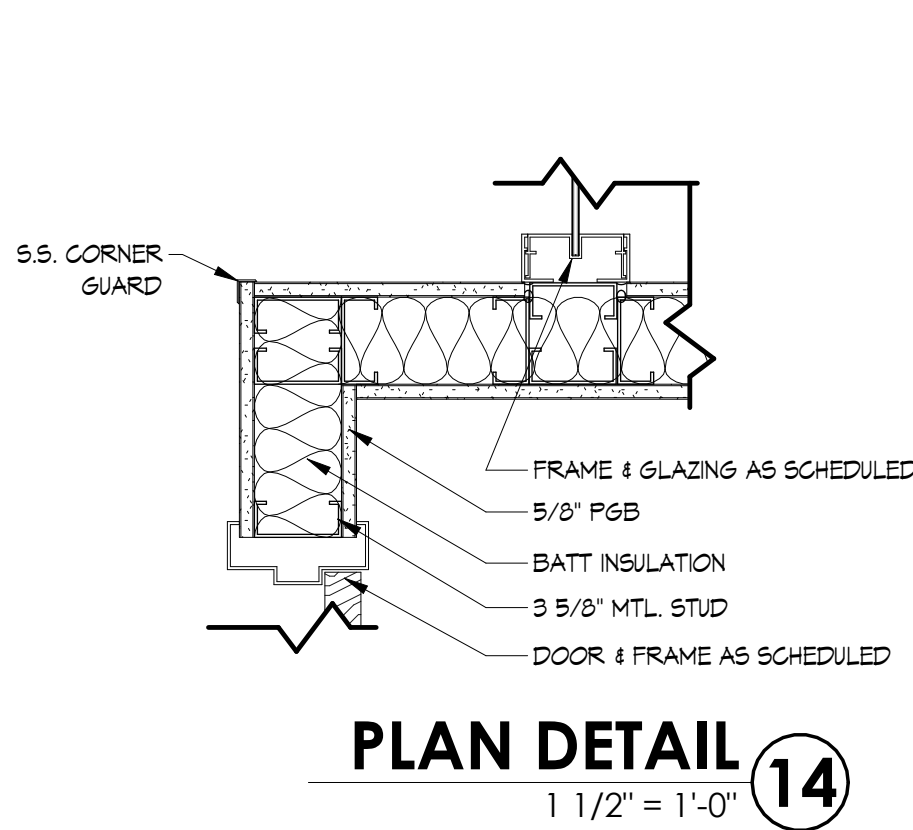
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ISSUE DATE: 04/30/2025

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SHEET NAME & NUMBER
INTERIOR PLAN & SECTION
DETAILS

A7.01

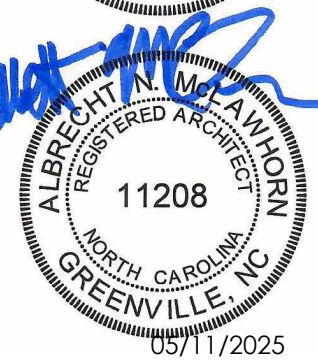




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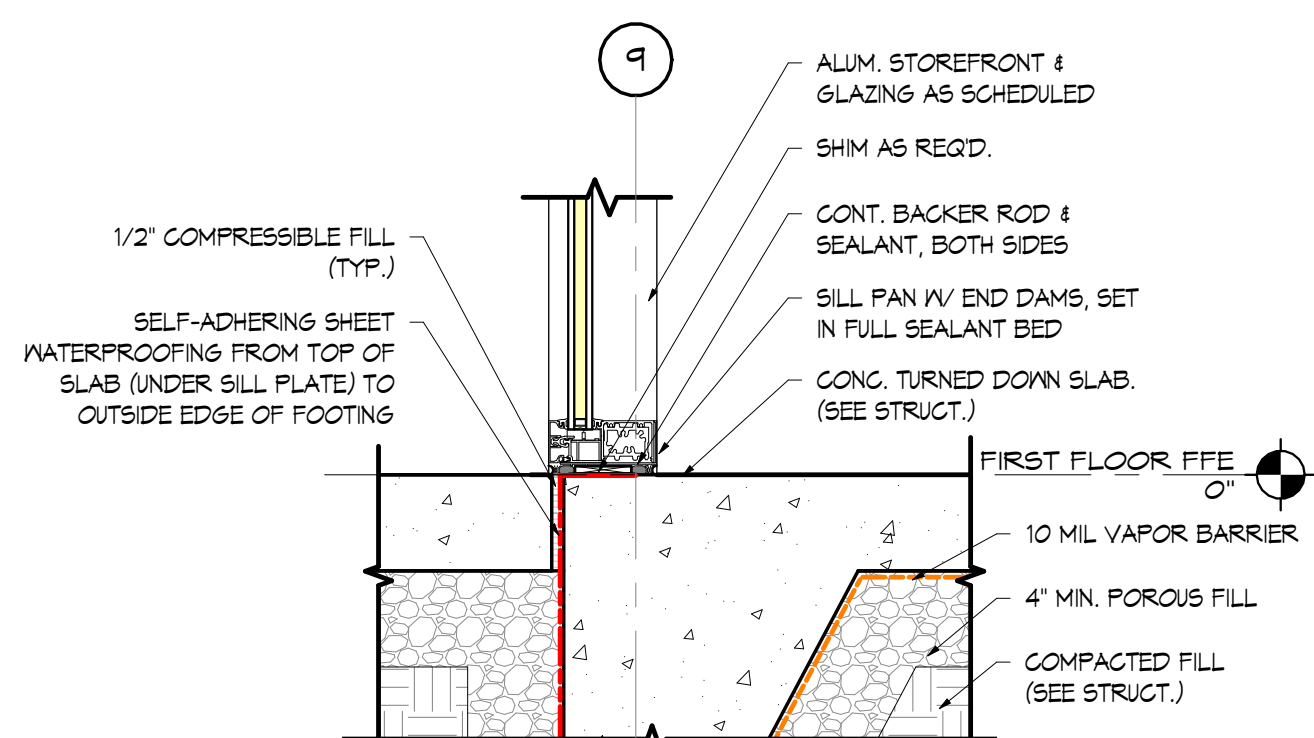
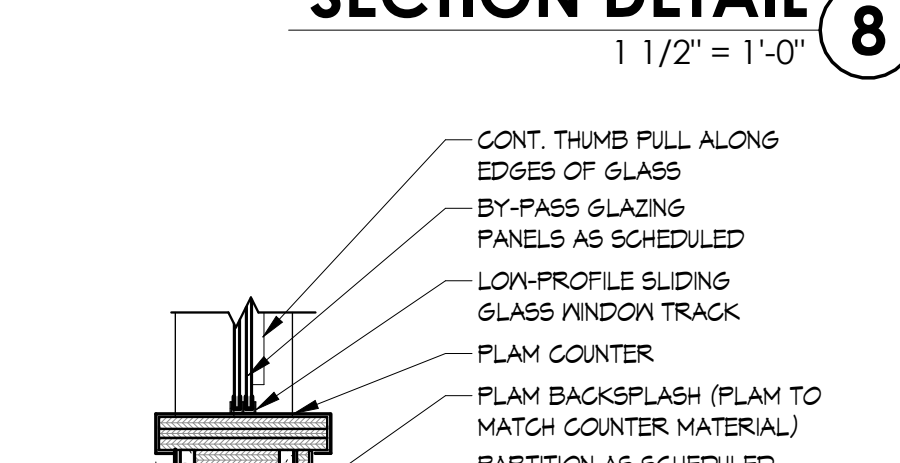
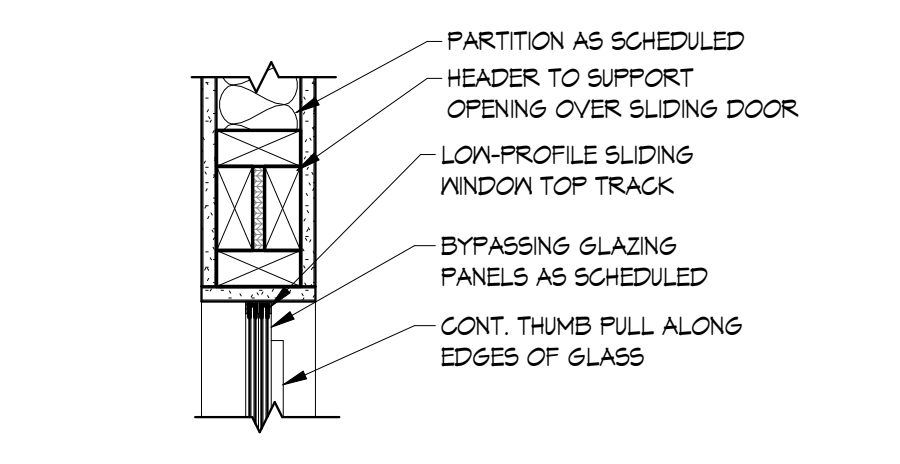
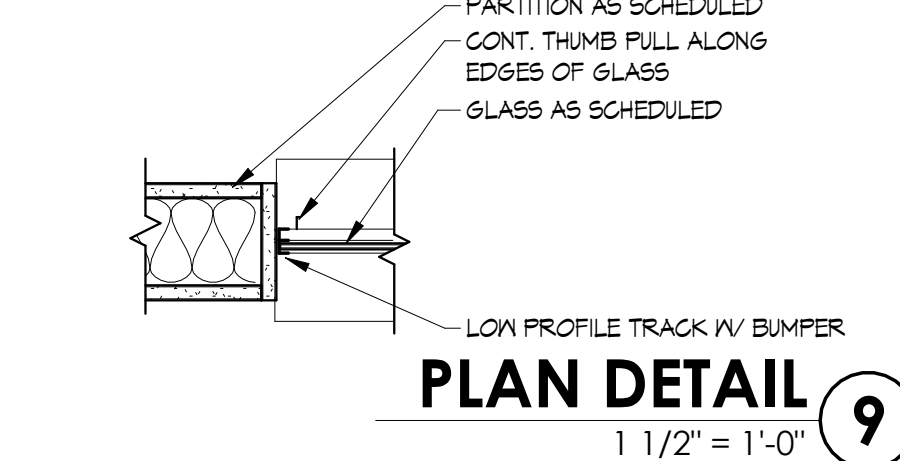
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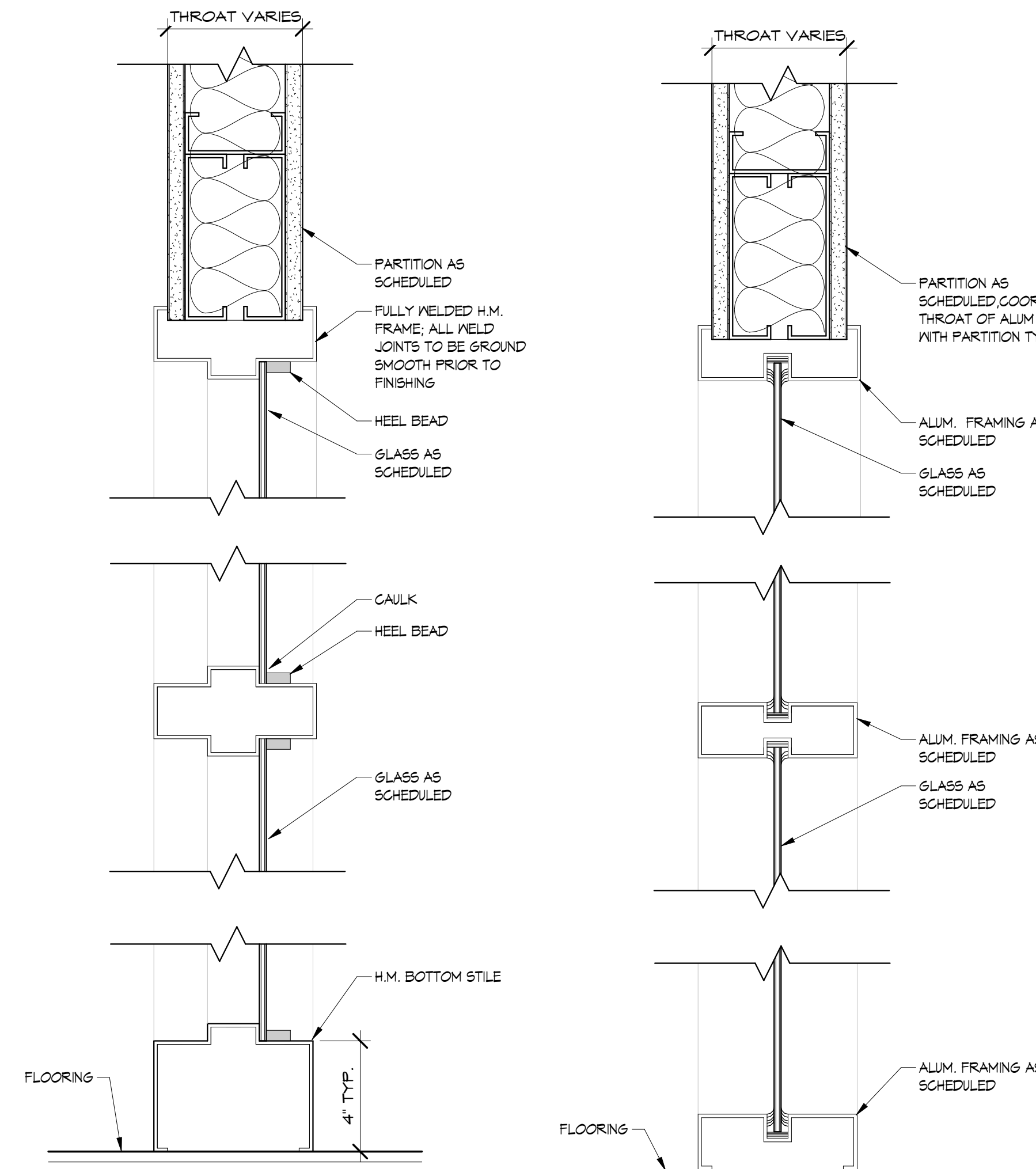
SHEET NAME & NUMBER
OPENING, WINDOW, AND
HARDWARE SCHEDULES, TYP.
FRAMING DETAILS

A8.01

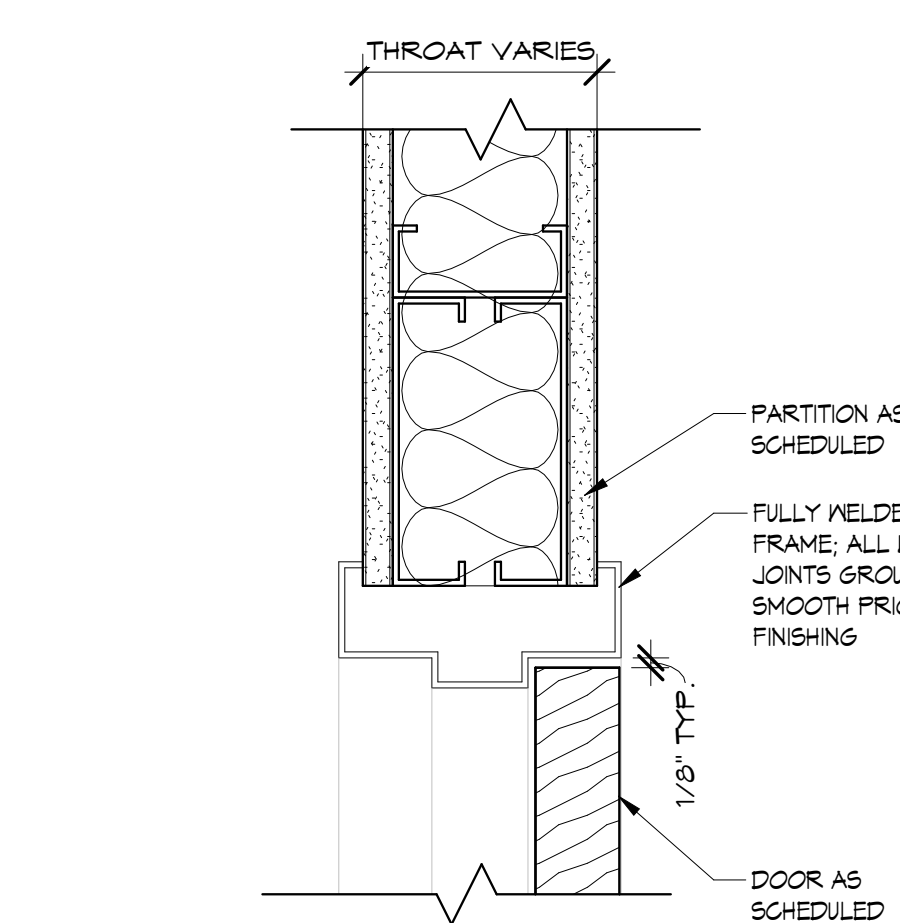
DOOR SCHEDULE															
DOOR NO.	SIZE			DOOR			FRAME ELEVATION	FRAME MATERIAL	FRAME FINISH	FRAME			FIRE RATING	HARDWARE SET	REMARKS
	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	MATERIAL	FINISH				HEAD	JAMB	DETAILS			
												SILL			
101	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	1	
101A	3'-0"	7'-0"	1 3/4"	A	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	2	
101B	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF2	AL	ANOD	4/A8.10	5/A8.01	3/A8.01, 10/A8.01	N/A	3A	ELECTRIC ACCESS CONTROL HARDWARE
102	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	4	
103	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	4	
103A	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	1	
103B	6'-0"	4'-0"	1"	OH4	AL	ANOD	-	-	6/A1.01	13/A1.01	6/A1.01	N/A	KEYED	OVERHEAD COUNTER COILING DOOR	
104	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	4	
105	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	5	
106A	6'-0"	7'-0"	1 3/4"	AA	AL	ANOD	SF1	AL	ANOD	4/A8.10	3/A8.01	3/A8.01, 10/A8.01	N/A	6	ELECTRIC ACCESS CONTROL HARDWARE
106B	6'-0"	7'-0"	1 3/4"	AA	AL	ANOD	ISF1	AL	ANOD	5/A8.01	5/A8.01	5/A8.01, 1/A8.01	N/A	7	ELECTRIC ACCESS CONTROL HARDWARE
107	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	2	
108	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	4	
109	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	1	
110	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	4	
112	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	4	
113	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	8A	ELECTRIC ACCESS CONTROL HARDWARE
113A	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	5	
113B	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	9	
114	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	4	
115A	3'-0"	7'-0"	1 3/4"	A	AL	ANOD	SF2	AL	ANOD	4/A8.10	5/A8.01	3/A8.01, 10/A8.01	N/A	3A	ELECTRIC ACCESS CONTROL HARDWARE
115B	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	10	ELECTRIC ACCESS CONTROL HARDWARE
116	4'-0"	10'-0"	5/8"	OH3	AL	ANOD	-	-	-	4/A8.11	9/A8.01	8/A8.10	N/A	KEYED	INSULATED OVERHEAD COILING DOOR
116A	3'-0"	7'-0"	1 3/4"	C	HM	PT	F1	HM	PT	4/A8.10	9/A8.01	3/A8.01	N/A	11	ELECTRIC ACCESS CONTROL HARDWARE
116F	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F1	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	12	
117A	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT		8/A8.01	3/A8.01	N/A	3A	ELECTRIC ACCESS CONTROL HARDWARE
117B	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT		8/A8.01	3/A8.01	N/A	3A	ELECTRIC ACCESS CONTROL HARDWARE
117C	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	8	
117D	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	8	
118	14'-0"	14'-0"	2 1/8"	OH1	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
119	14'-0"	14'-0"	2 1/8"	OH1	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
120	12'-0"	12'-0"	2 1/8"	OH2	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
122	12'-0"	12'-0"	2 1/8"	OH2	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
123	12'-0"	12'-0"	2 1/8"	OH2	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
124	12'-0"	12'-0"	2 1/8"	OH2	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
125	12'-0"	12'-0"	2 1/8"	OH2	AL	ANOD	-	-	-	7/A8.11	7/A8.01	8/A8.10	N/A	KEYED	OVERHEAD SECTIONAL DOOR
127	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT		7/A8.01B	3/A8.01	N/A	3	
201	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	2	
201A	3'-0"	3'-0"	1 3/4"	B	HM	PT	F3	HM	PT				N/A	13	ROOF ACCESS DOOR, 4-SIDED FRAME
203	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	1	INCLUDED IN ALTERNATE #1
204	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	4	INCLUDED IN ALTERNATE #1
205	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	5	INCLUDED IN ALTERNATE #1
206	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	4	INCLUDED IN ALTERNATE #1
207	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	5	INCLUDED IN ALTERNATE #1
208	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	12	INCLUDED IN ALTERNATE #1
209	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	2	
210	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	4	INCLUDED IN ALTERNATE #1
211	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	1	
212	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	4	INCLUDED IN ALTERNATE #1
213	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	N/A	2	
214	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	4	INCLUDED IN ALTERNATE #1
215	3'-0"	7'-0"	1 3/4"	C	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	10	ELECTRIC ACCESS CONTROL HARDWARE
216	3'-0"	7'-0"	1 3/4"	B	SNC	ST	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	30 MIN.	4	INCLUDED IN ALTERNATE #1
217	3'-0"	7'-0"	1 3/4"	C	HM	PT	F2	HM	PT	4/A8.01	4/A8.01	1/A8.01	45 MIN.	8A	ELECTRIC ACCESS CONTROL HARDWARE



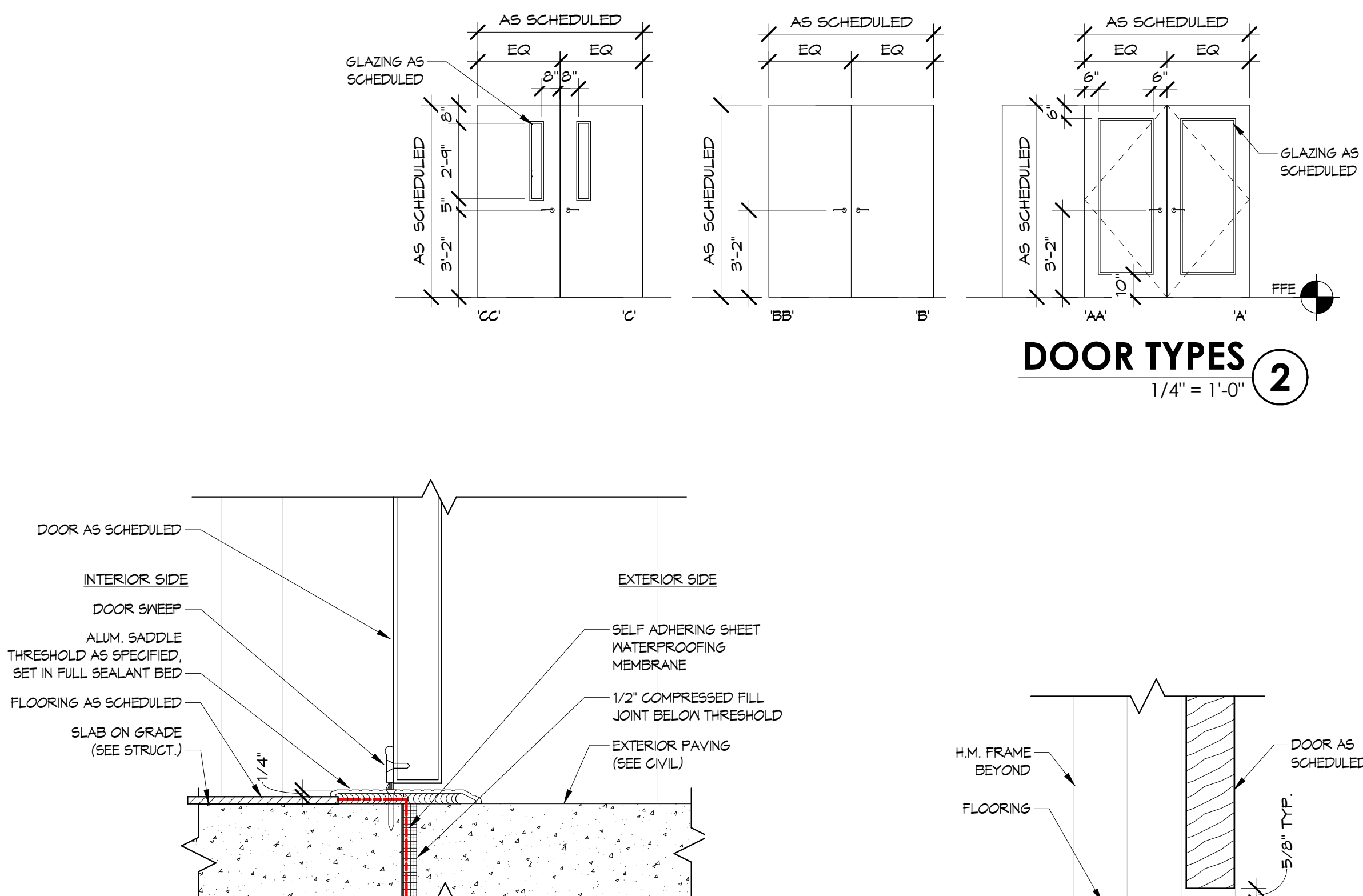
GLAZING SCHEDULE	
G1	CLEAR 1\"
G2	1\"
G3	1/4\"
G4	1/4\"
G5	CLEAR 1\"
DOOR/OPENINGS GENERAL NOTES:	
1. 6\"	
2. BASIS OF DESIGN FOR EXTERIOR STOREFRONT IN PUNCHED OPENINGS IS YKK MODEL YES 45XT 2\"	
3. BASIS-OF-DESIGN FOR ALL OTHER STOREFRONT IS YKK MODEL YES 45XT 2\"	
4. BASIS OF DESIGN FOR HOLLOW METAL INTERIOR FRAME MULLIONS ARE 2\"	
5. LIGHTS IN INTERIOR DOORS TO BE 6\"	
6. \"SF\" TAGS INDICATES EXTERIOR STOREFRONT FRAMES - REFER TO PLANS FOR LOCATIONS, FRAME ELEVATIONS FOR DIMENSIONS, GLAZING TAGS, ETC.	
7. WOOD VENEER FOR SOLID WOOD CORE DOORS SHALL BE AAA PREMIUM GRADE. SPECIES SHALL BE WHITE BIRCH U.N.O.	
8. DOOR ASSEMBLIES TO COMPLY WITH REQD FIRE RATINGS	
ABBREVIATIONS:	
D.O. DOOR OPENING	
R.O. ROUGH OPENING	



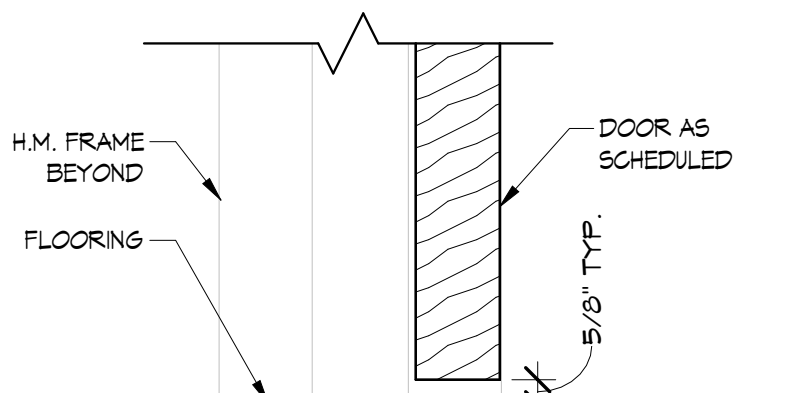
TYP. INTERIOR SF FRAMING 5: 3\"/>



TYP. HM FRAME HEAD/JAMB 4: 3\"/>



TYP. EXT. DOOR SILL DETAIL 3: 3\"/>



TYP. INT. THRESHOLD 1: 3\"/>

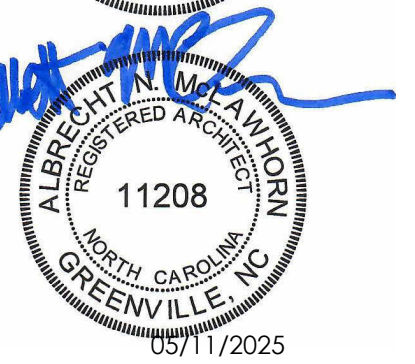
TYP. HM WINDOW FRAMING 6: 3\"/>



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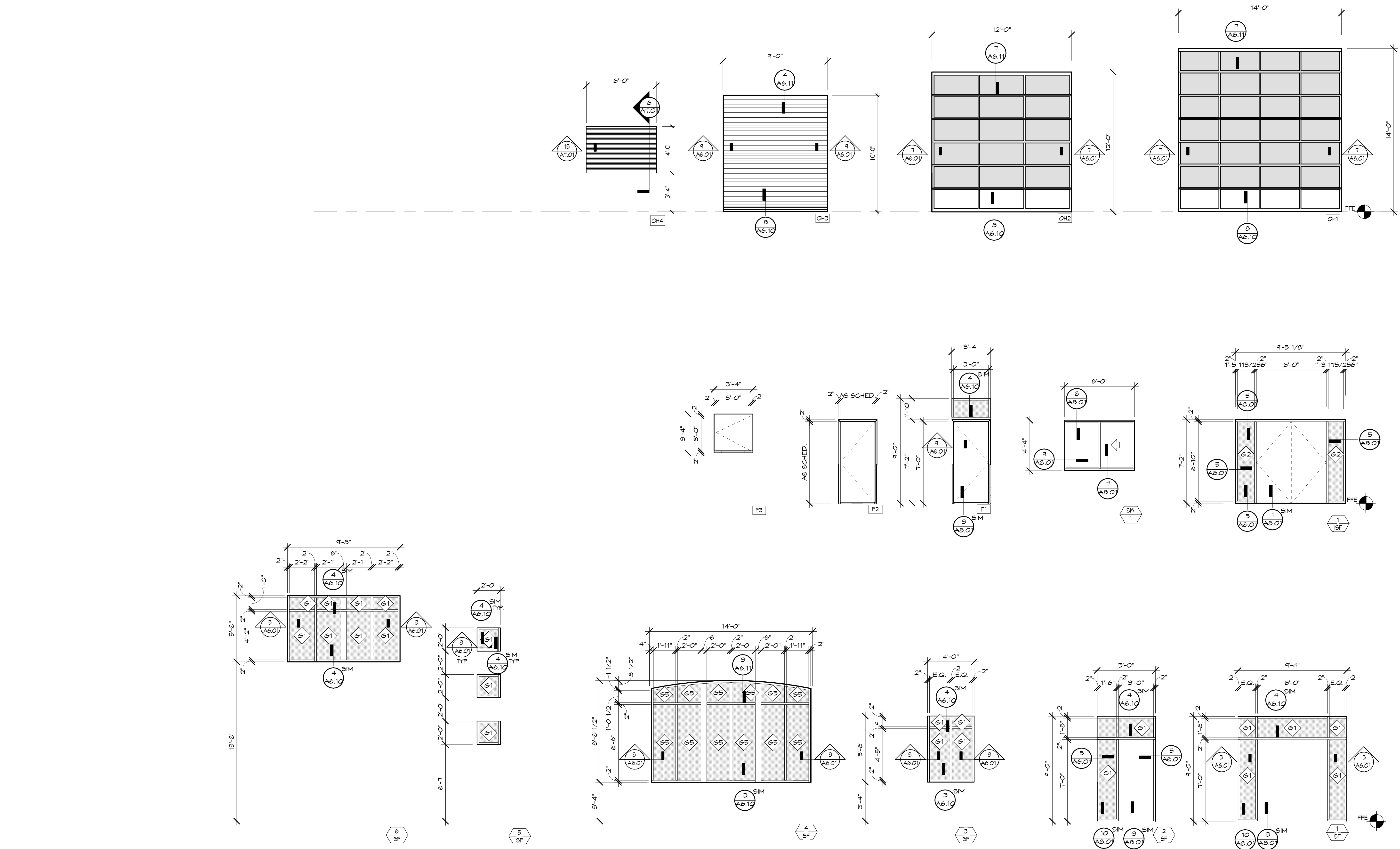
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

DOOR TYPES & FRAME ELEVATION

FRAME TYPE 1
1/4" = 1'-0"

A8.02





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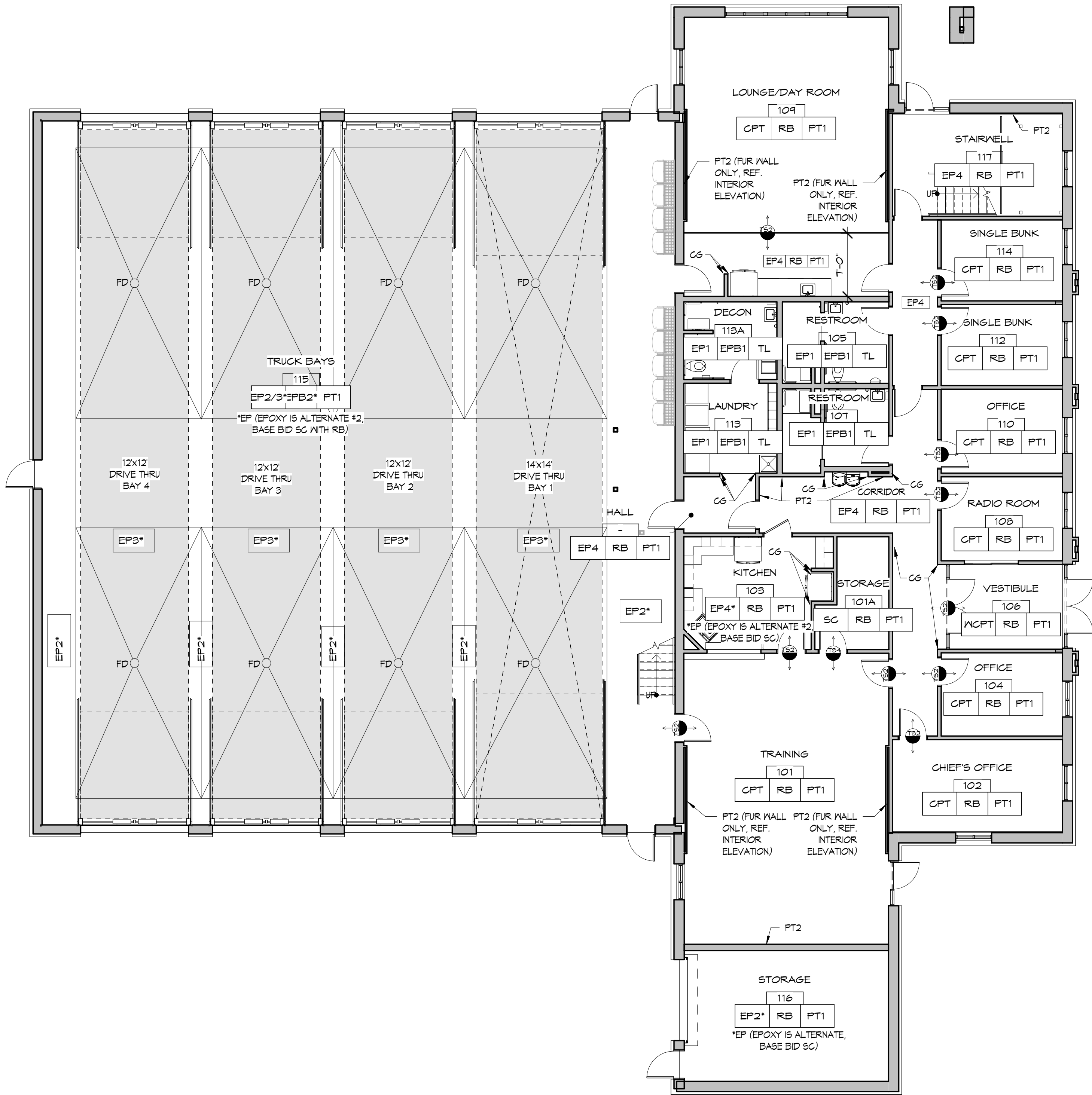
SHEET NAME & NUMBER
FINISH PLAN & SCHEDULE

A9.00
1/8" = 1'-0"

FINISH SCHEDULE					
	TAG	FINISH TYPE	MANUFACTURER	STYLE/COLOR	ALTERNATE MANUFACTURERS
FLOOR	CPT	CARPET TILE	MOHAWK GROUP	COLLECTION: EMERGING DIRECTIONS STYLE NAME: LINEAR EFFECT B1589 COLOR: ARCH TO SELECT FROM FULL RANGE	MANNINGTON COMMERCIAL INTERFACE
	WCPT	WALK OFF CARPET TILE	MOHAWK GROUP	COLLECTION: STEP UP II COLOR: CORAL SIZE: 24X24"	MANNINGTON COMMERCIAL INTERFACE
	EP1	EPOXY 1	TRISOLUTIONS	COLLECTION: SOY STEP COLOR: SP 262 GRAY	STONHARD, LATICRETE
	EP2	EPOXY 2	TRISOLUTIONS	FLOW RESIN, BY KEY RESIN CO. COLOR: ARCH. TO SELECT FROM STANDARD COLOR RANGE.	STONHARD, LATICRETE
	EP3	EPOXY 3	TRISOLUTIONS	FLOW RESIN, BY KEY RESIN CO. COLOR: ARCH. TO SELECT FROM STANDARD COLOR RANGE.	STONHARD, LATICRETE
	EP4	EPOXY 1	TRISOLUTIONS	FULL BROADCAST, 1/8" FLAKE W/ POLYASPARTIC TOP COAT BY TRISOLUTIONS COLOR: ARCH. TO SELECT FROM FULL STANDARD COLOR RANGE. BROADCAST - ARCH TO SELECT FROM FULL RANGE.	STONHARD, KEY RESIN CO
	SC	SEALED CONCRETE			
WALL	SV	SHEET VINYL	MOHAWK	COLLECTION: EPIMEMERAL II C2056 COLOR: ARCH TO SELECT FROM FULL RANGE	MANNINGTON COMMERCIAL INTERFACE
	T1	WALL TILE	DALTILE	COLLECTION: COVE CREEK COLOR: GRAY CC10 SIZE: 10 X 14	CAESAR, TILE BAR
	T2	ACCENT BAND TILE	DALTILE	COLLECTION: CURRANT LATTICE WEAVE COLOR: SH17 SIZE: 1X3	CAESAR, TILE BAR
	T3	ACCENT TILE	DALTILE	COLLECTION: COVE CREEK COLOR: GRAY CC10 SIZE: 1X3 MOSAIC	
	PT1	PAINT	SHERWIN WILLIAMS	NATURAL CHOICE - SW7011	BENJAMINE MOORE, VALSPAR
	PT2	PAINT	SHERWIN WILLIAMS	SENSUOUS GRAY SW 7081	BENJAMINE MOORE, VALSPAR
	PT3	PAINT	SHERWIN WILLIAMS	PRIMER: PRO INDUSTRIAL PRO-CRYL UNIVERSAL PRIMER 845-1000 SERIES, INTERMEDIATE & FINISH COAT: PRO INDUSTRIAL ACRYLON 100, WATERBASED URETHANE HIGH GLOSS	BENJAMINE MOORE, VALSPAR
BASE	PT4	PAINT	SHERWIN WILLIAMS	NATURAL CHOICE - SW7011	BENJAMINE MOORE, VALSPAR
	RB1	RUBBER BASE	JOHNSONITE	63 BURNT UMBER	ROPPE, MOHAWK
	EPB1	EPOXY BASE	TRISOLUTIONS	COLLECTION: SOY STEP COLOR: SP 626 GRAY	STONHARD, LATICRETE
	EPB2	EPOXY BASE	TRISOLUTIONS	COLLECTION: BROADCAST EPOXY COLOR: MANUF. FULL RANGE	STONHARD, LATICRETE
CASEWORK	CTB	TILE BASE	DALTILE	COLLECTION: COVE CREEK COLOR: GRAY CC10 SIZE: 10 X 14	STONEPEAK, TILE BAR
	PLAM	PLASTIC LAMINATE	FORMICA	AGED ASH	WILSON ART, PANOLAM
CEILING	QZ	QUARTZ	HANSTONE	DRIFT BA271	CORIAN, CAMBRIA
	ACT1	ACCUSTICAL CEILING TILE	USG	STYLE: RADAR SIZE: 2'X2', EDGE SQ COLOR: WHITE	ARMSTRONG, CERTANTEED
	PG8	PAINTED GYPSUM BOARD	SHERWIN WILLIAMS	HIGH REFLECTIVE WHITE SW 7757	BENJAMINE MOORE, VALSPAR
	TMP	DURABLE ACCUSTIC PANEL	SEE SPECIFICATION FOR MORE INFORMATION	STANDARD COLOR	
OTHER	CG	S.S. CORNER GUARDS	SCHLUTER OR EQUAL MANUFACTURER		LATICRETE, KUBERTI
	TS-1	TRANSITION STRIP	MATCH TO RUBBER BASE MANUFACTURER		LATICRETE, KUBERTI
	TS-2	MARBLE THRESHOLD	HANSTONE		LATICRETE, KUBERTI
OTHER	TS-3	TRANSITION STRIP	MATCH TO RUBBER BASE MANUFACTURER		LATICRETE, KUBERTI
	TS-3	TRANSITION STRIP	MATCH TO RUBBER BASE MANUFACTURER		LATICRETE, KUBERTI

GENERAL FINISH NOTES

- ALL CORNER GUARDS SHALL BE INSTALLED IN OUTSIDE GYPSUM BOARD WALL CORNERS.
- ALL TILE CORNERS SHALL HAVE A STAINLESS STEEL GUARDS (NOTED IN FINISH PLAN.
- SEE INTERIOR ELEVATIONS FOR SPECIFIC TILE LOCATIONS, TYPES, AND OTHER MATERIALS NOT NOTED ON FINISH PLAN.
- LOUVERS, VENTS, GRILLES, AND OTHER MISCELLANEOUS MECHANICAL AND ELECTRICAL DEVICES SHALL BE PAINTED TO MATCH SURFACE WHICH THEY APPEAR, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR MAKING SMOOTH, FLAT JOINTS BETWEEN TRANSITION OF DIFFERENT FLOORING MATERIALS.
- FLOOR FINISHES SHALL CHANGE UNDER CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
- SEE A4.00 FOR TYP, MOUNTING HEIGHTS, DETAILS, & SIGN TYPES.
- S.S. CORNER GUARDS TO BE 42" AFF. ON ALL OUTSIDE GYP. BOARD WALL CORNERS, AND AS NOTED IN FINISH PLANS.
- ALL OUTSIDE CORNERS OR CHANGING OF MATERIAL TO HAVE S.S. TRIM EDGING.



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



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2ND FLOOR FINISH PLANS

A9.01

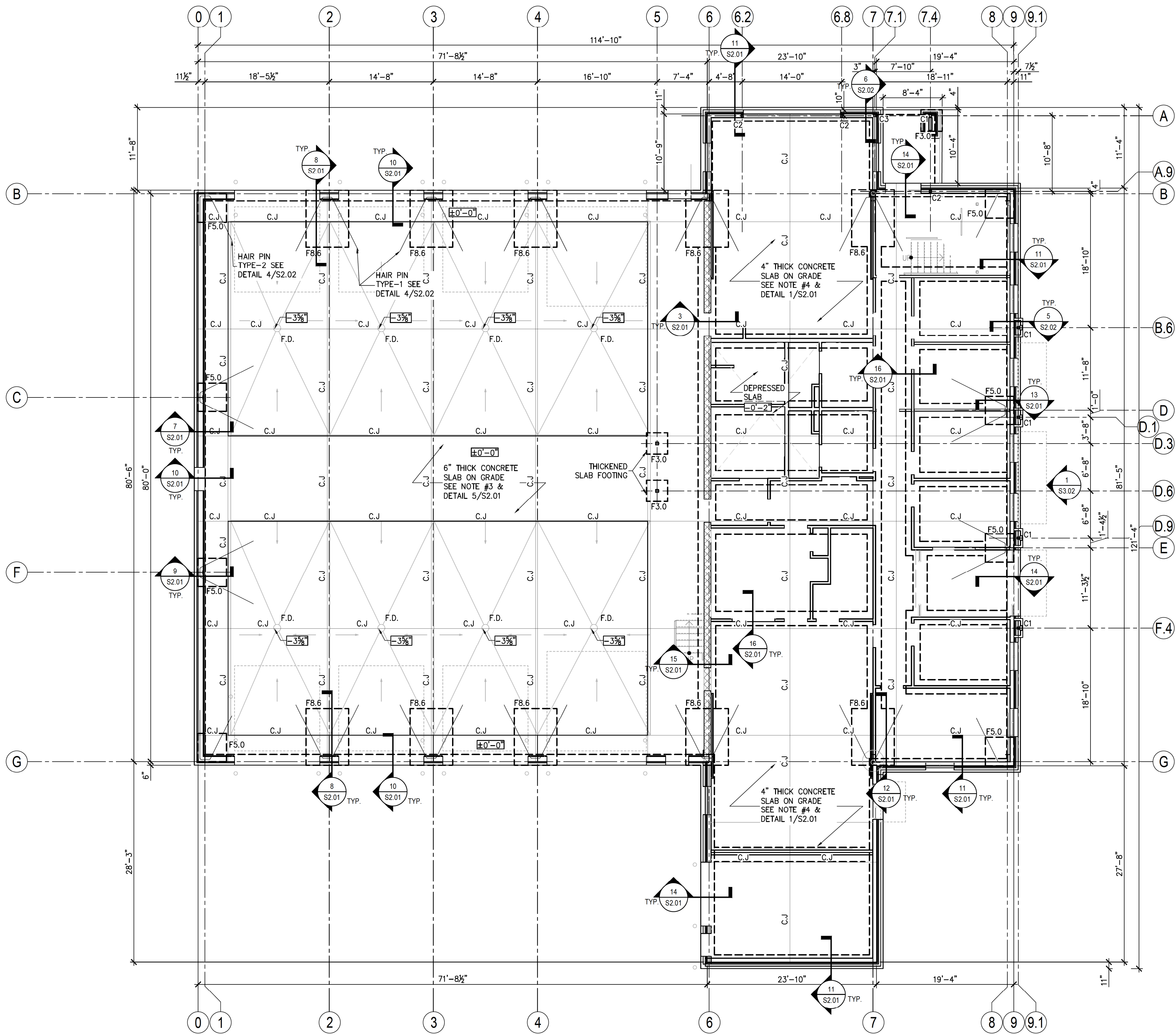




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FOUNDATION PLAN

1/8" = 1'-0"

- FOUNDATION PLAN NOTES:**
- SEE SHEET S4.01 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES & SCHEDULES.
 - TOP OF SLAB REFERENCE ELEVATION = 0'-0" UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR ACTUAL SITE ELEVATIONS.
 - CONCRETE FLOOR SLAB IS 6" THICK WITH 6 x 6 - W 2.9x W 2.9 WELDED WIRE FABRIC, PROVIDE 10 MIL VAPOR BARRIER AND 6" COMPACTED GRANULAR BASE UNDER SLAB. SEE DETAIL 5/S2.01
 - CONCRETE FLOOR SLAB IS 4" THICK WITH 6 x 6 - W 2.1x W 2.1 WELDED WIRE FABRIC, PROVIDE 10 MIL VAPOR BARRIER AND 4" COMPACTED GRANULAR BASE UNDER SLAB. SEE DETAIL 1/S2.01
 - SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY CONTROL JOINTS.
 - SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MASONRY OPENINGS NOT SHOWN.
 - FOR FOOTING, BASE PLATE AND ANCHOR BOLT DETAIL, SEE SCHEDULE ON SHEET S1.01, AND DETAIL ON S2.01, S2.02
 - SEE 4/S2.01 FOR SLAB CORNER REINFORCEMENT. U.N.O.

FOUNDATION PLAN LEGEND	
	DENOTES COLUMN CONCRETE SPREAD FOOTING WITH FOOTING MARK - SEE FOOTING SCHEDULE ON S1.01 FOR SIZE AND REINFORCING
	DENOTES SLAB ON GRADE CONSTRUCTION OR SAWCUT CONTROL JOINT - SEE DETAILS 3/S2.01 AND 2/S2.01 FOR ADDITIONAL INFORMATION
	DENOTES 'UNLESS OTHERWISE NOTED'
	DENOTES 'PRE-ENGINEERED METAL BUILDING'

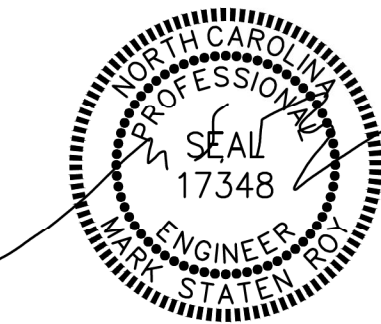
FOOTING SCHEDULE			
MARK	FTG. SIZE	REINFORCEMENT	REMARKS
F3.0	3'-0" x 3'-0" x 2'-0"	4 - #4 EACH WAY, TOP. 4 - #6 EACH WAY, BOTT.	-
F4.0	4'-0" x 4'-0" x 2'-0"	5 - #4 EACH WAY, TOP. 5 - #6 EACH WAY, BOTT.	-
F5.0	5'-0" x 5'-0" x 2'-0"	6 - #4 EACH WAY, TOP. 6 - #6 EACH WAY, BOTT.	-
F8.6	8'-0" x 6'-0" x 2'-0"	5 - #4 EACH L.W. TOP. 9 - #4 EACH S.W. TOP. 5 - #6 EACH L.W. BOTT. 9 - #6 EACH S.W. BOTT.	-

NOTE:
1. S.W.=> SHORT WAY. 2. L.W.=> LONG WAY. 3. E.W.=> EACH WAY

COLUMN SCHEDULE				
MARK	COL. SIZE	BASE \varnothing SIZE & TYPE	ANCH. BOLT DIA.	REMARKS
C1	HSS 4 x 4 x $\frac{1}{4}$	$\frac{3}{4}$ " x 10" x 0'-10" - B1	$\frac{3}{4}$ "	4 BOLTS
C2	HSS 4 x 4 x $\frac{1}{4}$	$\frac{3}{4}$ " x 5" x 0'-10" - B2	$\frac{3}{4}$ "	2 BOLTS
C3	HSS 4 x 4 x $\frac{1}{4}$	$\frac{3}{4}$ " x 7 $\frac{1}{2}$ " x 7 $\frac{1}{2}$ " - B3	$\frac{3}{4}$ "	2 BOLTS

NOTE:
1. SEE DETAIL 7/S2.02 FOR ANCHOR BOLTS DETAILS & BASE PLATE TYPE.

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FOUNDATION PLAN

S1.01



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MEZZANINE FLOOR FRAMING PLAN

1/8" = 1'-0"

- MEZZANINE FLOOR FRAMING PLAN NOTES:
- SEE SHEET S4.01 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
 - ALL BUILDING DIMENSIONS ARE FROM FACE TO FACE OF STUD WALLS, U.N.O.
 - SEE ARCH DWGS FOR ADDITIONAL DIMENSIONS, WALL OPENINGS, ETC.
 - VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
 - FINISHED FLOOR ELEVATION IS +11'-4". ABOVE GROUND LEVEL SLAB. SEE ARCHITECTURAL/CIVIL DRAWINGS FOR ACTUAL FINISHED FLOOR ELEVATION.
 - PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR TRUSS/JOIST. U.N.O.
 - PROVIDE (2)HEADER AND (2)TRIMMER FOR ALL OPENING BIGGER THEN 2'-0"x2'-0". U.N.O.
 - SEE DETAIL 1 & 2/S2.01 FOR MASONRY CONSTRUCTION DETAILS.
 - ATTACH LVL BEAM TO CMU WALL WITH 'HGM' SIMPSON HEAVY DUTY FACE MOUNT JOIST HANGER. FILL BLOCK CORE SOLID AT HANGER LOCATION. U.N.O.

MEZZANINE FLOOR FRAMING PLAN LEGEND	
Ⓐ	DENOTES (4) 6"-16GA STUD PACK
Ⓑ	DENOTES (3) 6"-16GA STUD PACK
Ⓒ	DENOTES (3) 3/8"-16GA STUD PACK
Ⓓ	DENOTES (5) 6"-16GA STUD PACK
U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'

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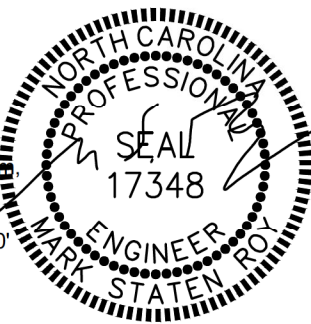
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SHEET NAME & NUMBER
MEZZANINE FLOOR
FRAMING PLAN

S1.02

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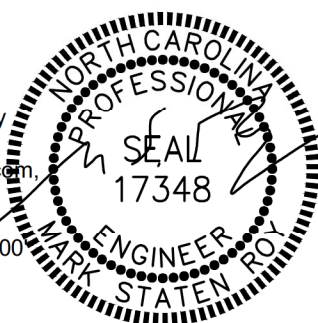
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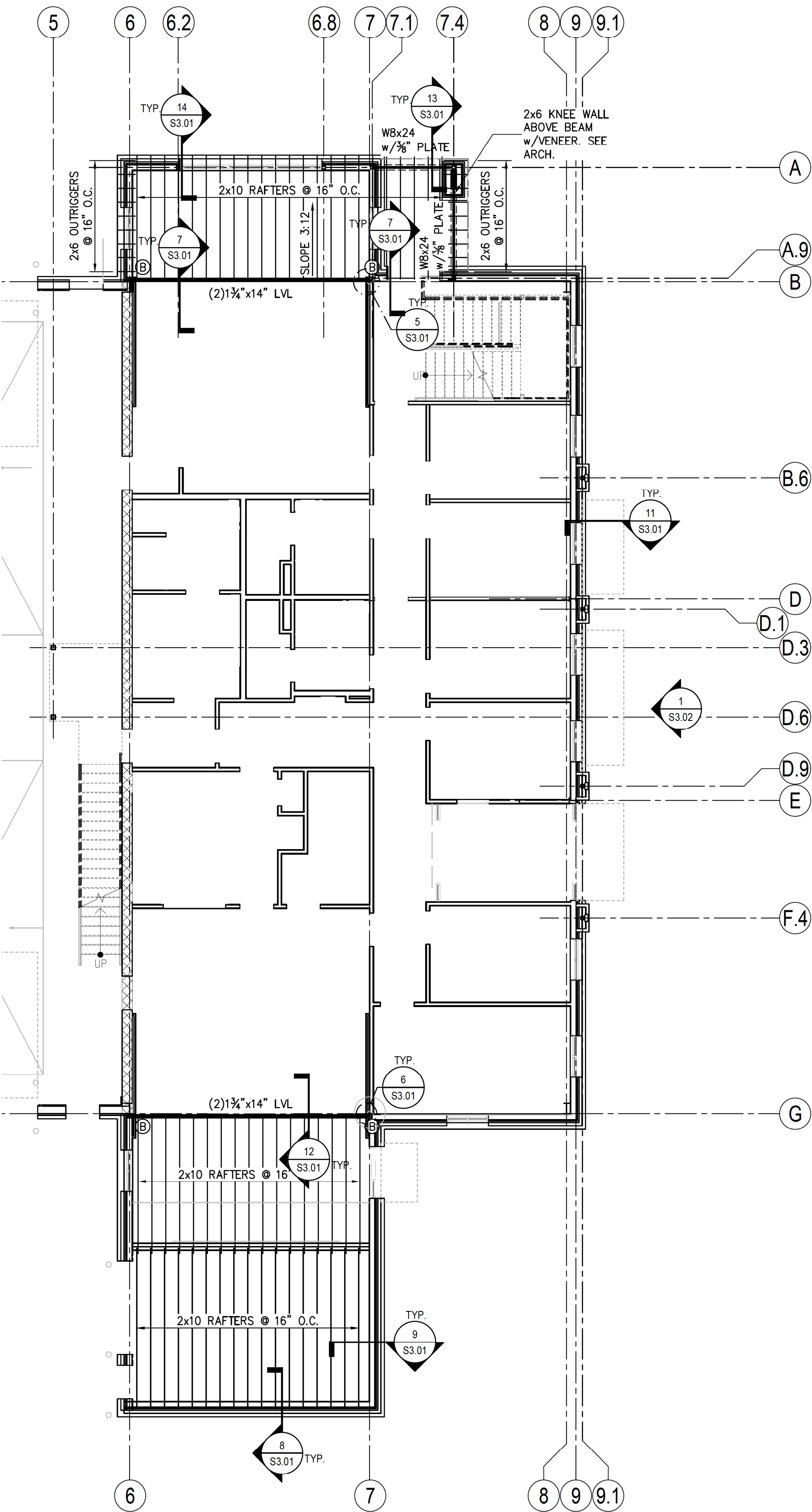
SHEET NAME & NUMBER
SECOND FLOOR CEILING
FRAMING AND ROOF
FRAMING PLAN

S1.03

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E=mark.roy@rpaengineering.com,
O="RPA Engineering, P.A.",
CN=Mark S. Roy
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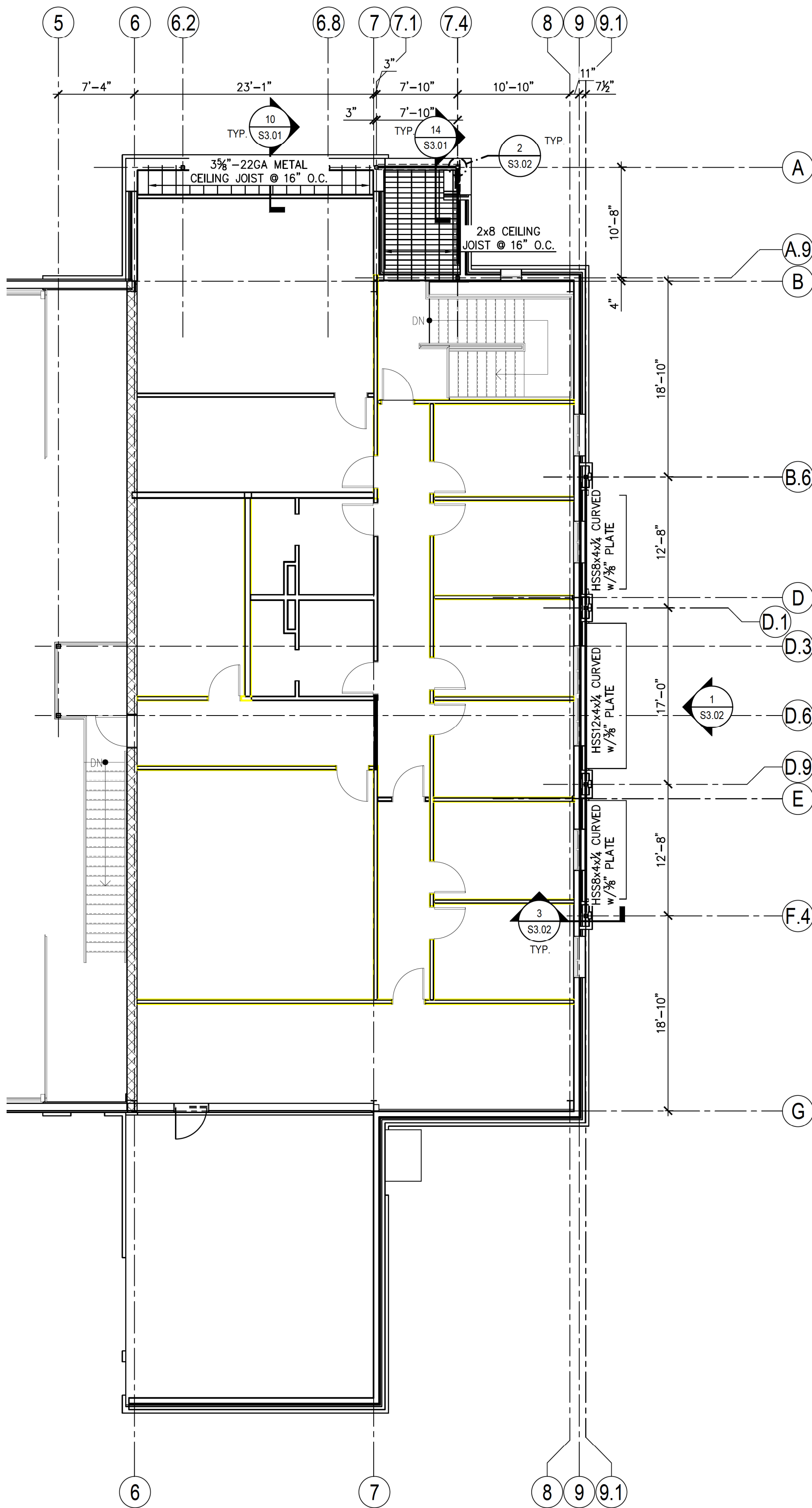
LOW ROOF & ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

- SEE SHEET S4.01 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
- ALL BUILDING DIMENSIONS ARE FROM FACE TO FACE OF STUD WALLS, U.N.O.
- SEE ARCH DWGS FOR ADDITIONAL DIMENSIONS, WALL OPENINGS, ETC.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- PROVIDE DOUBLE JOIST UNDER ALL WALLS PARALLEL TO FLOOR TRUSS/JOIST, U.N.O.
- PROVIDE (2)HEADER AND (2)TRIMMER FOR ALL OPENING BIGGER THEN 2'-0"x2'-0". U.N.O.

ROOF FRAMING PLAN LEGEND	
A	DENOTES (4) 6"-16GA STUD PACK
B	DENOTES (3) 6"-16GA STUD PACK
C	DENOTES (3) 3%-16GA STUD PACK
U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'



SECOND FLOOR CEILING FRAMING PLAN

1/8" = 1'-0"

SECOND FLOOR CEILING FRAMING PLAN NOTES:

- SEE SHEET S4.01 FOR DESIGN CRITERIA, GENERAL STRUCTURAL NOTES AND SCHEDULES.
- ALL BUILDING DIMENSIONS ARE FROM FACE TO FACE OF STUD WALLS, U.N.O.
- SEE ARCH DWGS FOR ADDITIONAL DIMENSIONS, WALL OPENINGS, ETC.
- VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- PROVIDE (2)HEADER AND (2)TRIMMER FOR ALL OPENING BIGGER THEN 2'-0"x2'-0". U.N.O.

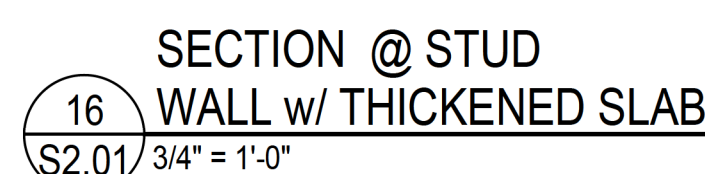
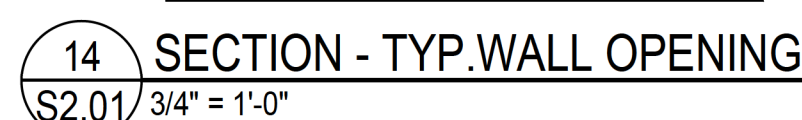
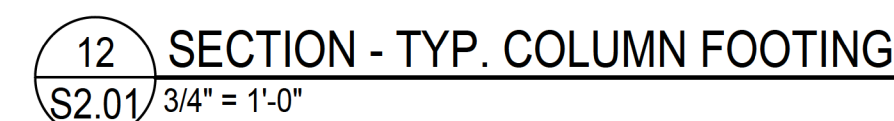
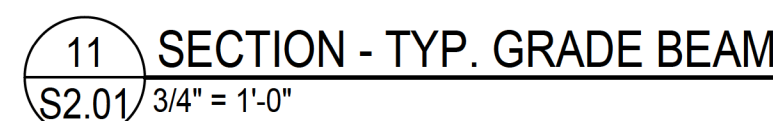
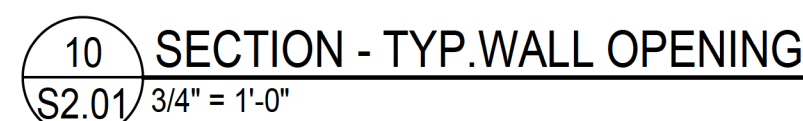
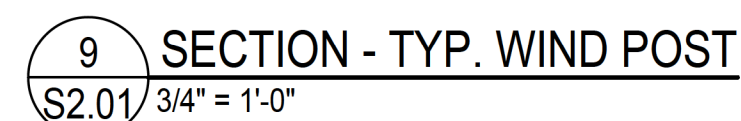
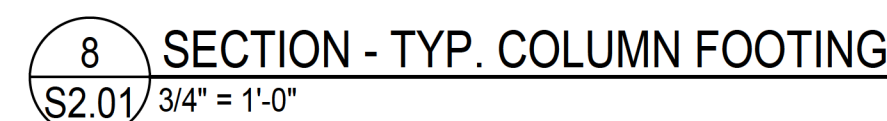
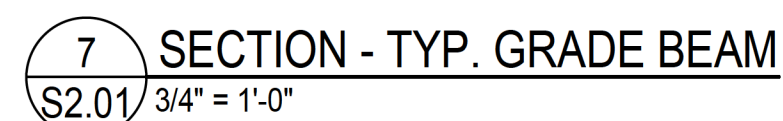
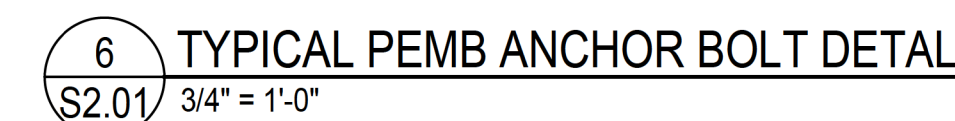
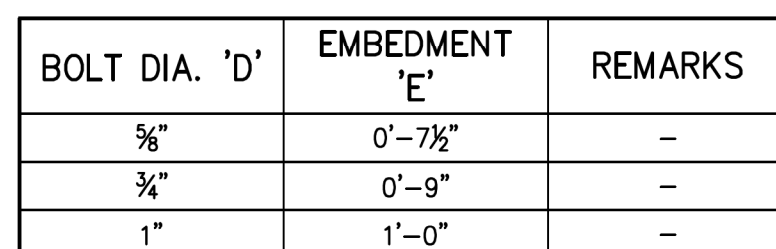
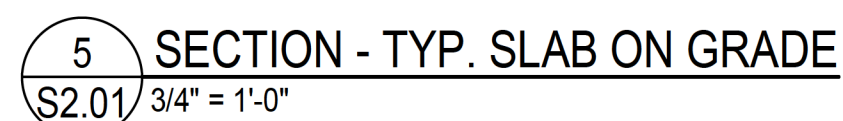
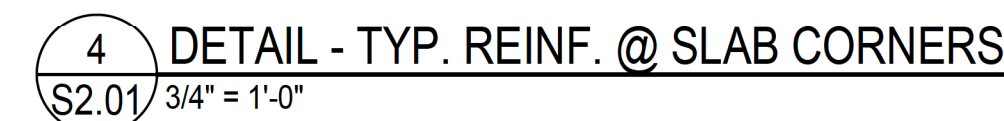
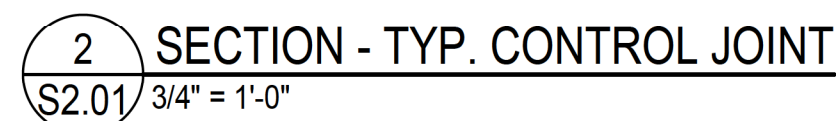
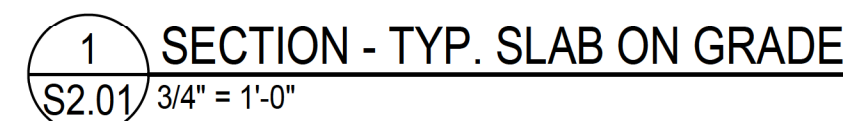
ROOF FRAMING PLAN LEGEND	
A	DENOTES (4) 6"-16GA STUD PACK
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U.N.O.	DENOTES 'UNLESS NOTED OTHERWISE'



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CONSTRUCTION DOCUMENTS

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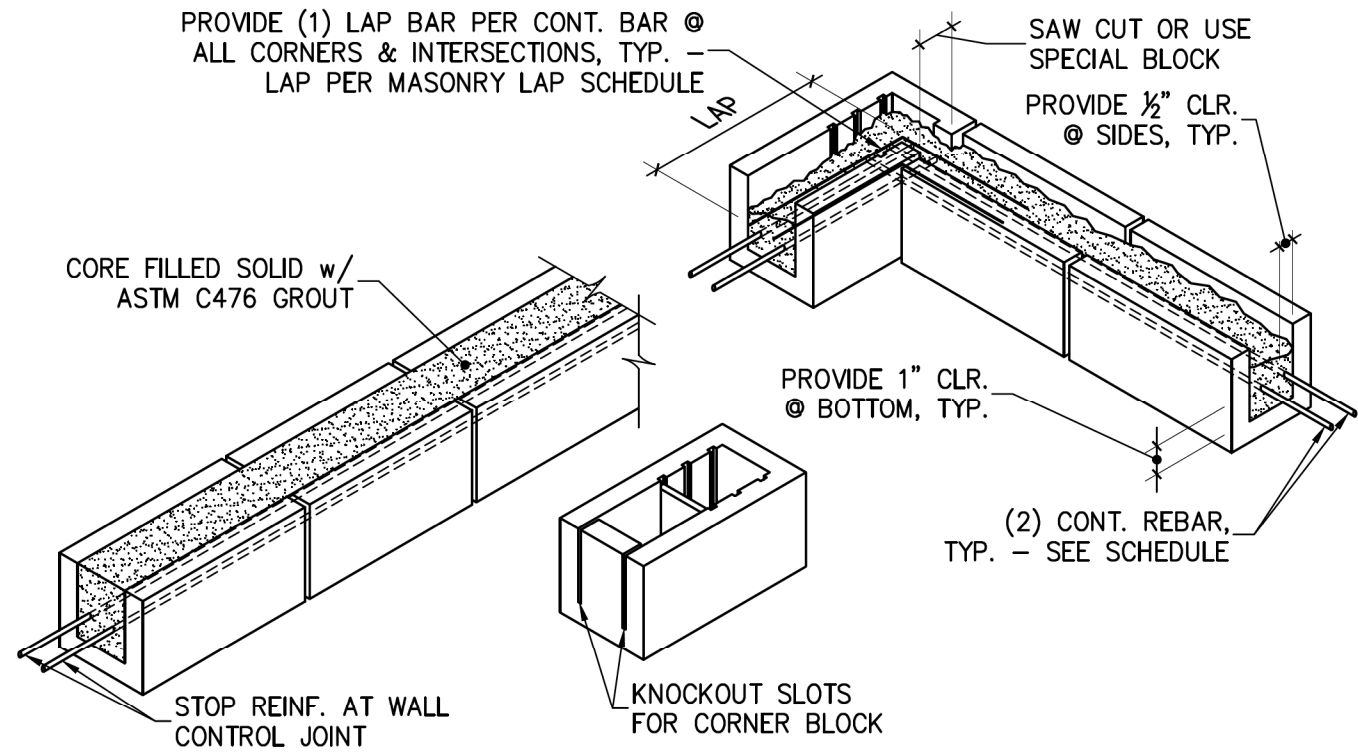
STREET NAME & NUMBER

FOUNDATION PLAN

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So I

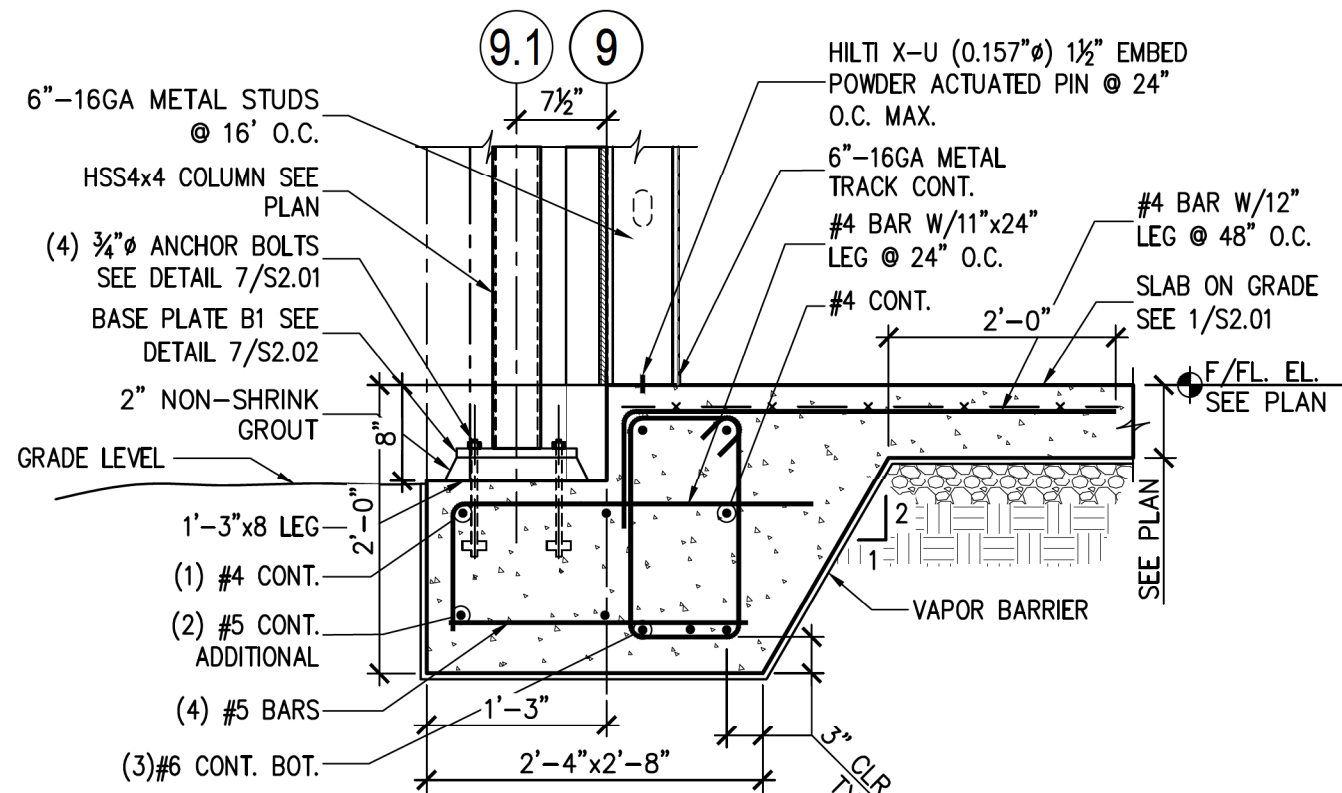
92.01



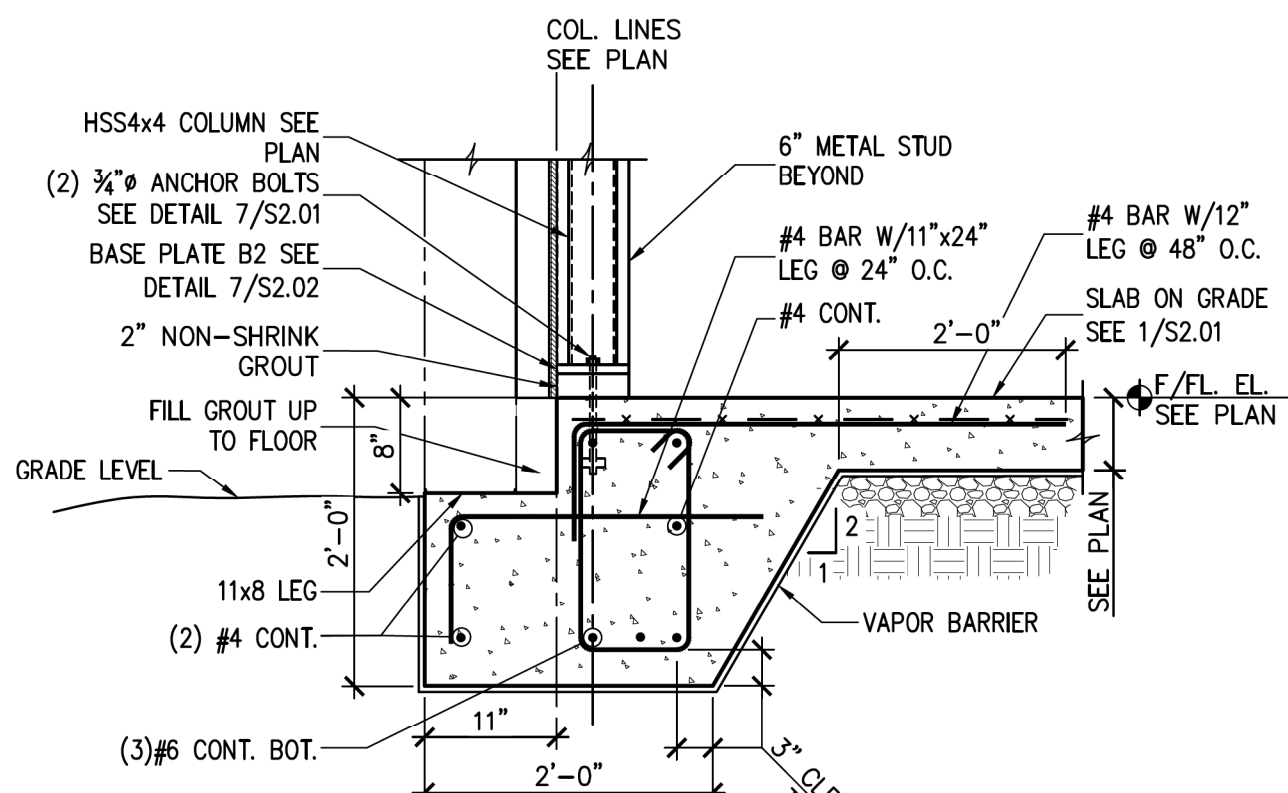
CMU BOND BEAM CONT. REINFORCING		
CMU THK.	REINF.	REMARKS
8"	(2) #5	-

NOTES:
1. MATCH THICKNESS OF CORNER LAP BARS AND CONTINUOUS BARS.
2. SEE MASONRY LAP SCHEDULE FOR LAP REQUIREMENTS AT CORNERS AND INTERSECTIONS.

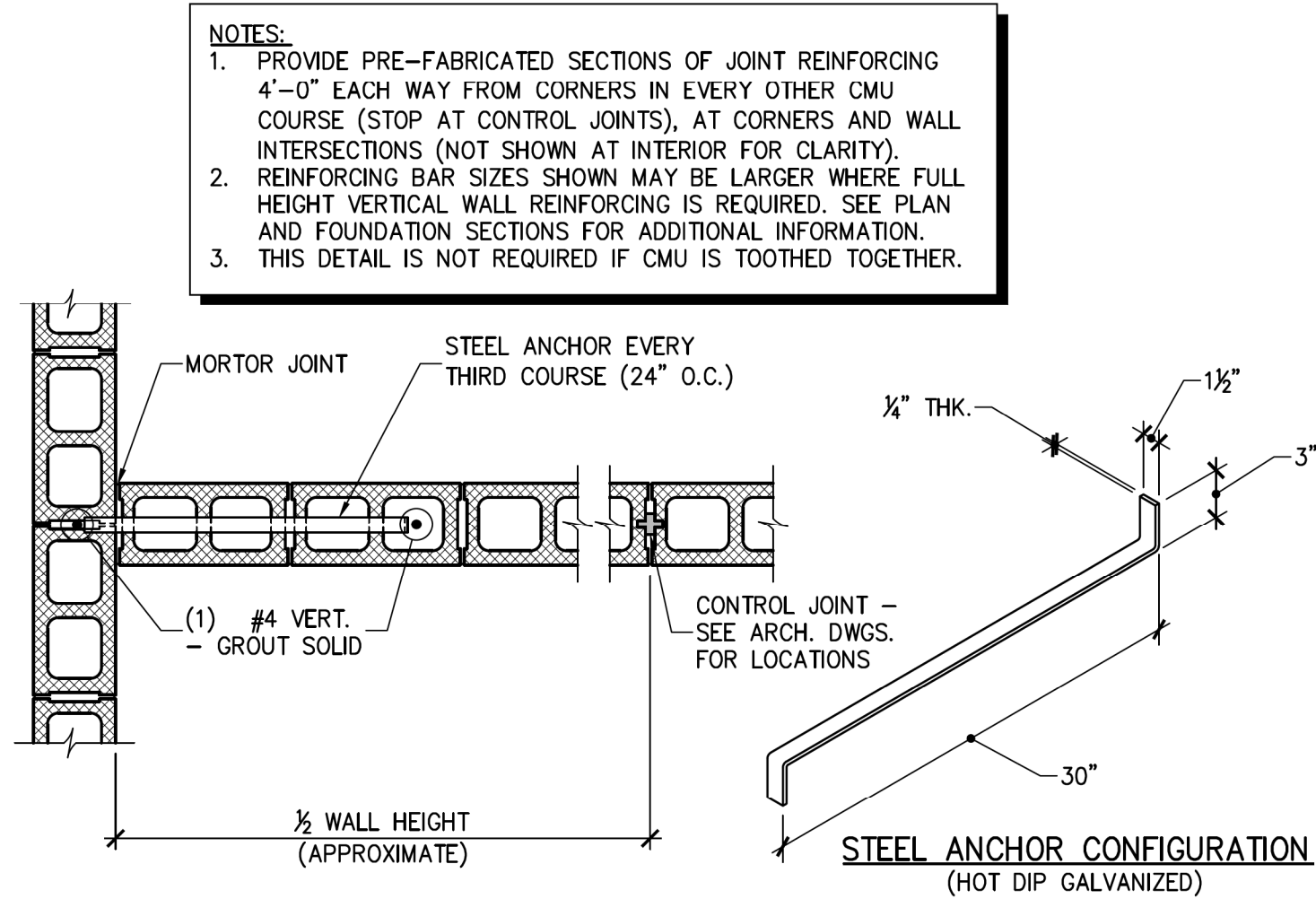
1 DETAIL - TYP. BOND BEAM
S2.02 N.T.S.



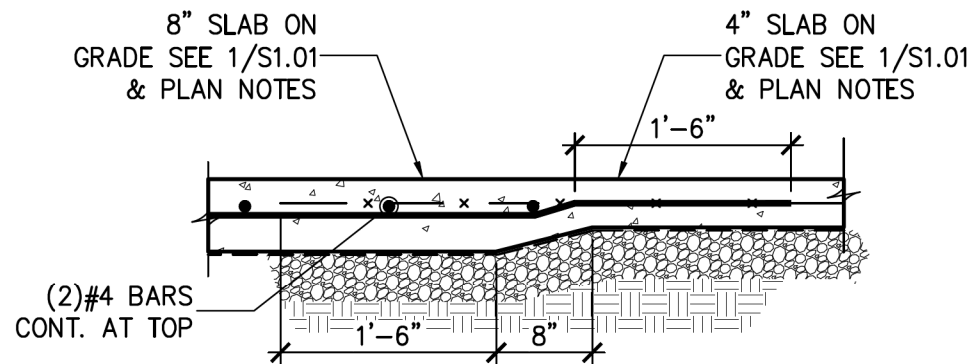
5 SECTION - TYP. GRADE BEAM
S2.02 3/4" = 1'-0"



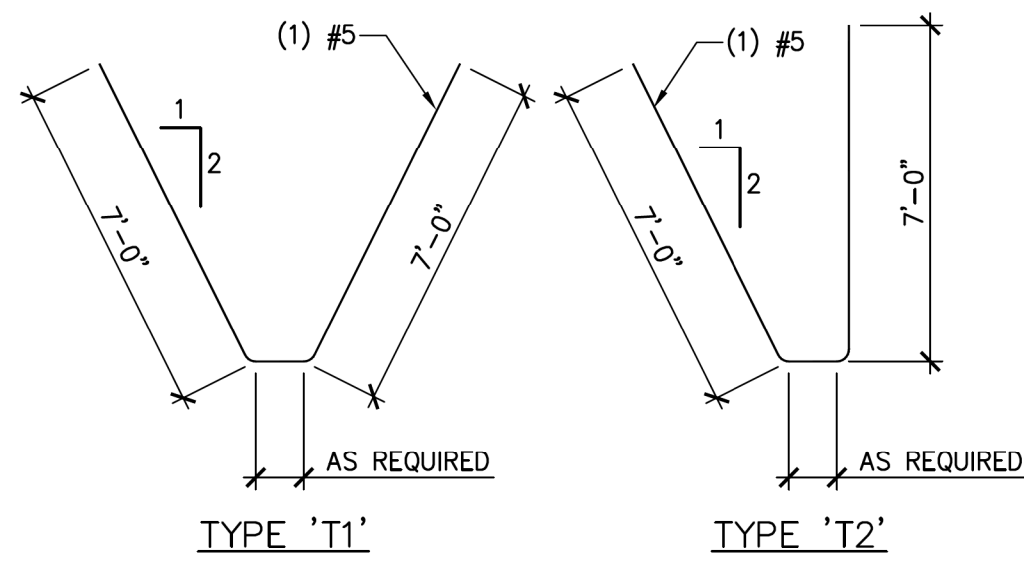
6 SECTION - TYP. GRADE BEAM
S2.01 3/4" = 1'-0"



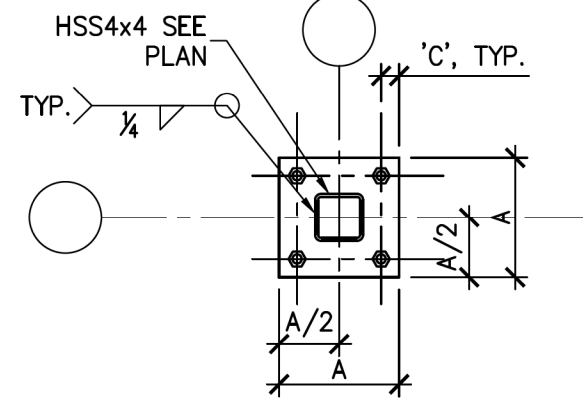
2 PLAN DETAIL - TYPICAL INTERIOR CMU WALL REINFORCING
S2.02 3/4" = 1'-0"



3 DETAIL AT SLAB TRANSIT
S2.02 3/4" = 1'-0"

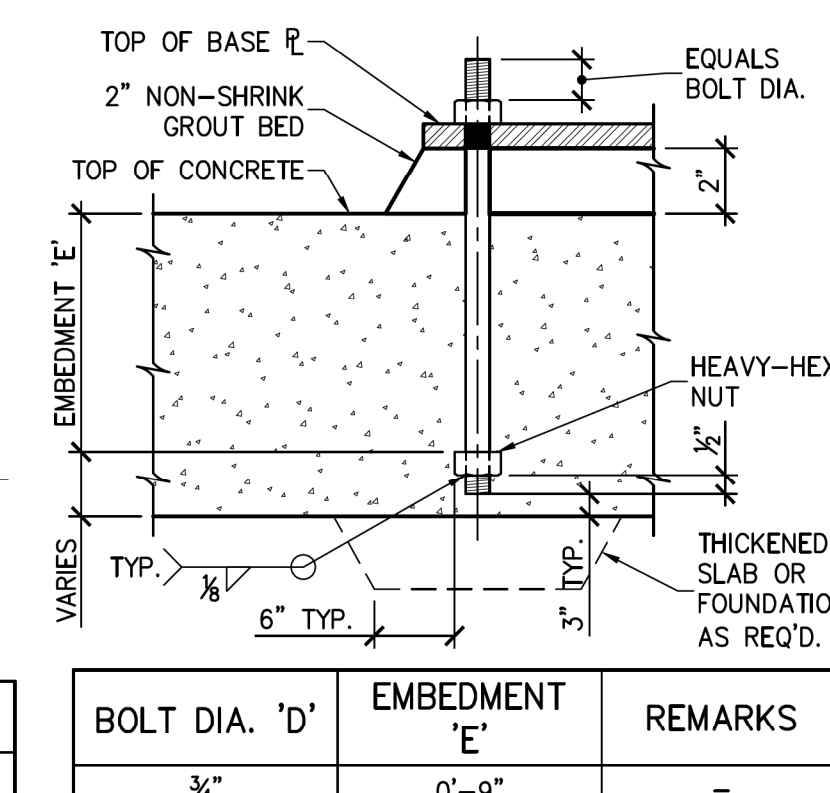


4 HAIRPIN TYPES
S2.02 1/4" = 1'-0"



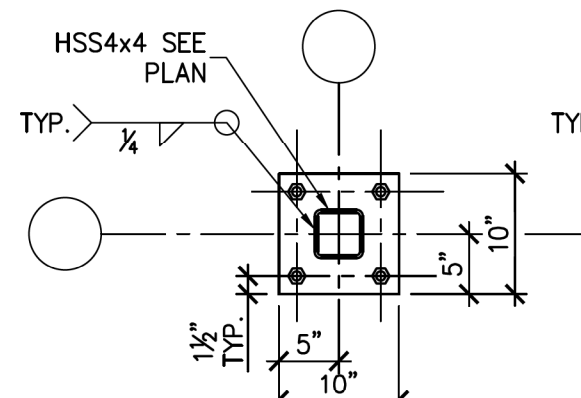
BOLT DIA.	DISTANCE 'C'
3/4" AND BELOW	1 1/2"

BASE PLATE

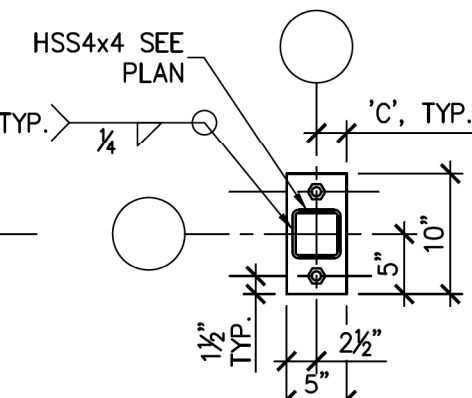


BOLT DIA. 'D'	EMBEDMENT 'E'	REMARKS
3/4"	0'-9"	-

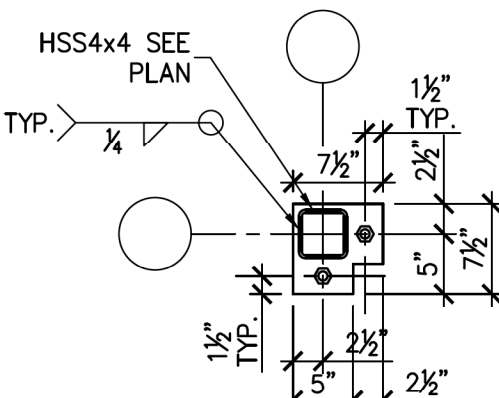
7 TYPICAL ANCHOR BOLT DETAL
S2.02 3/4" = 1'-0"



BASE PLATE 'B1'



BASE PLATE 'B2'



BASE PLATE 'B3'



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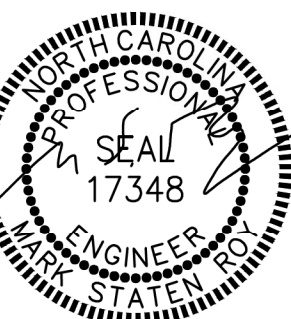
603 4TH STREET
MAYSVILLE, NC 28555

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O=RPA Engineering, P.A.,
CN=Mark S. Roy
Date: 2025.05.12 13:06:20-04'00'



DRAWN BY: RPA/GBP RPA/MSR

PROJECT #: 24008

ISSUE DATE: 04.30.2025

PHASE:

CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

MEZZANINE FLOOR
FRAMING PLAN

S2.02

RPA ENGINEERING, P.A.	
Structural Engineering Solutions	
Engineering License Certificate No. C-2734	
1 Commerce Square, Suite 202 Washington, NC 27889	Phone : 252-321-6027 Fax : 252-355-2179
RPA Project No.: 2024223	

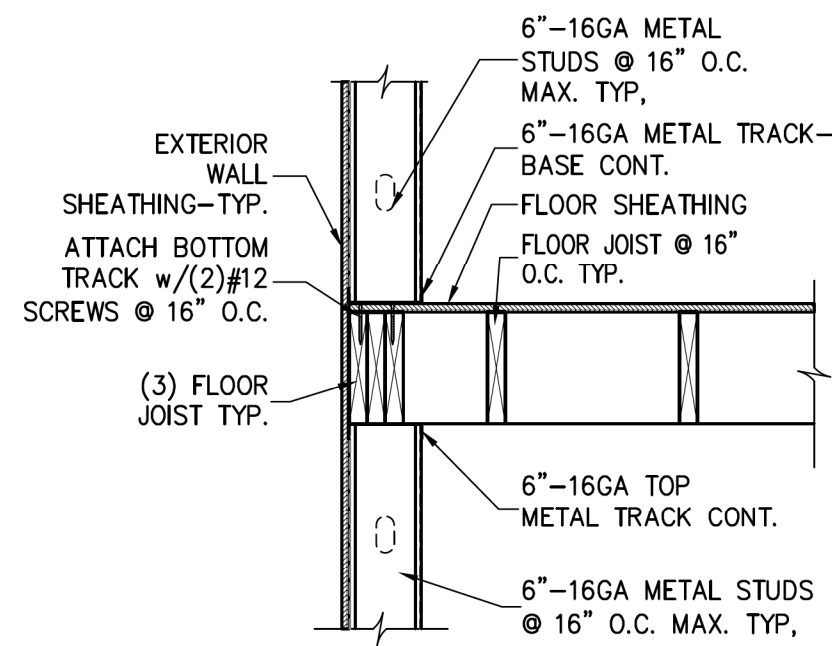


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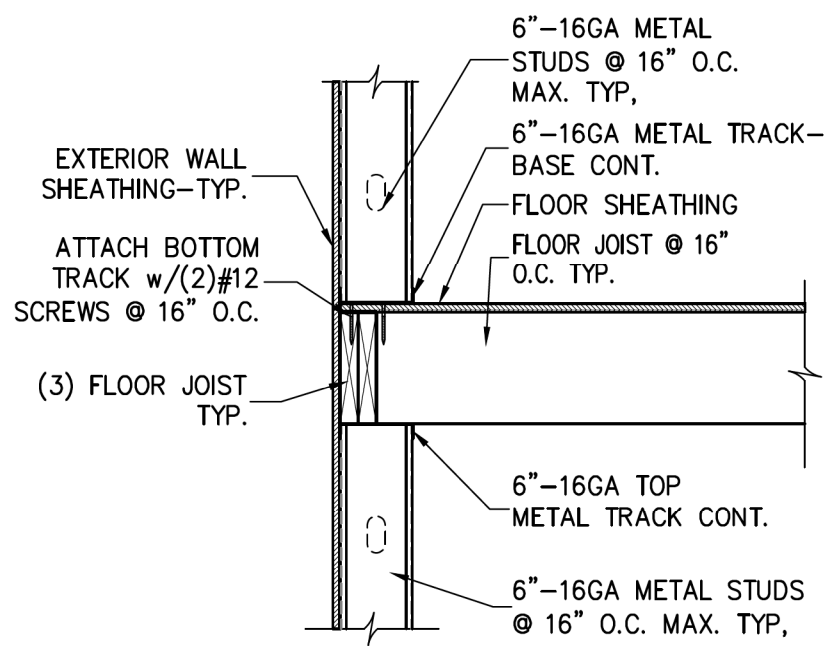
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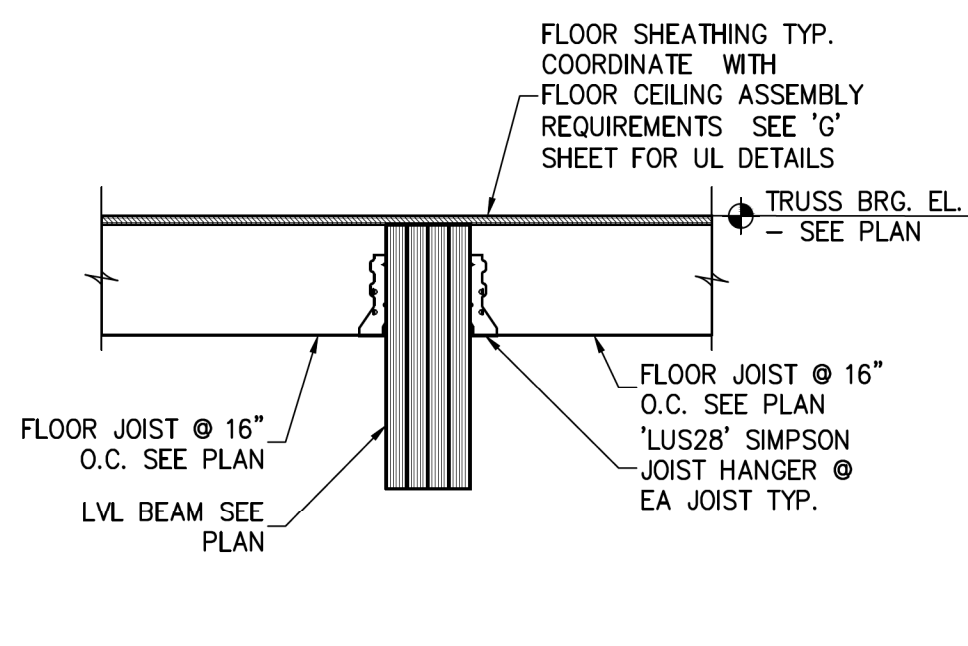
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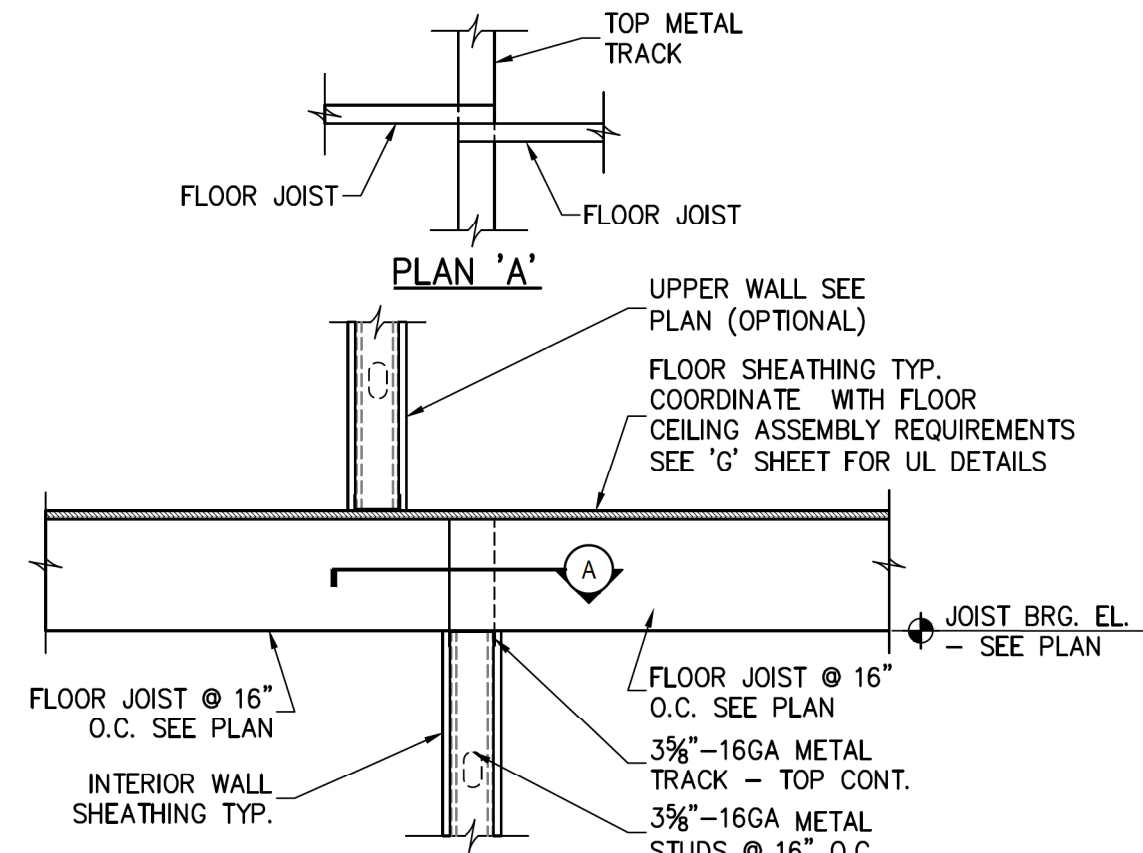
1 JOIST PARALLEL - EXT. WALL
S3.01 3/4" = 1'-0"



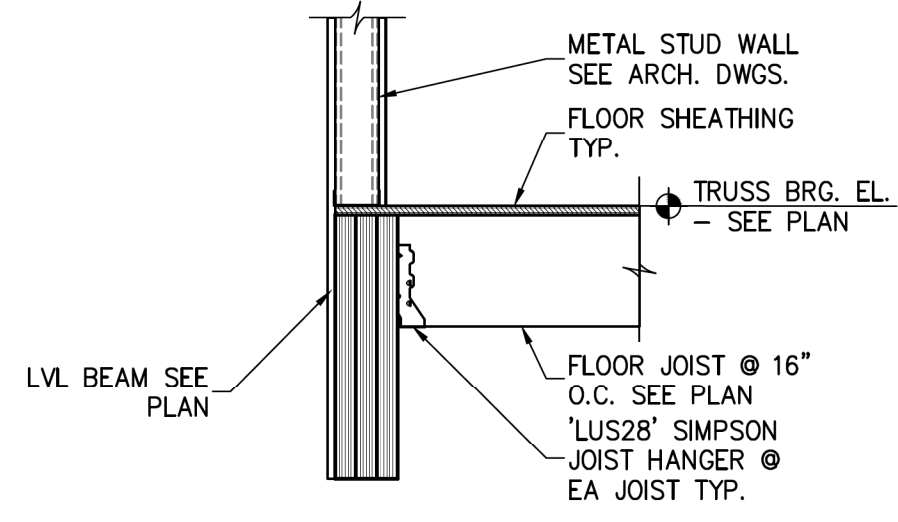
2 JOIST PERPENDICULAR - EXT. WALL
S3.01 3/4" = 1'-0"



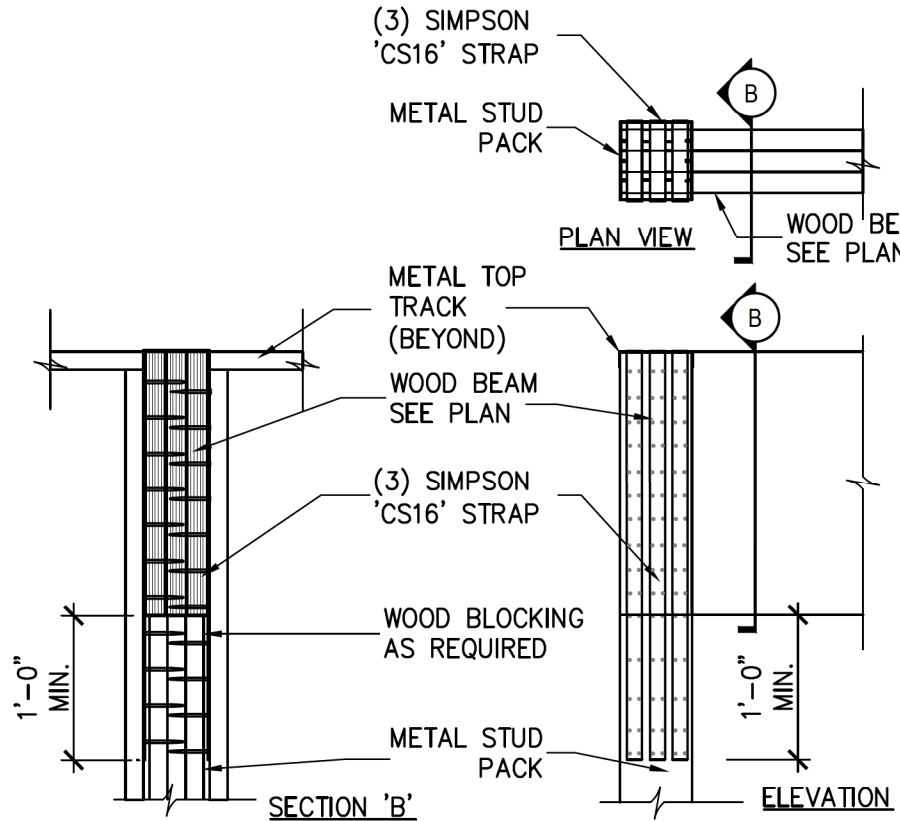
3 FLOOR JOIST BRG. @ WOOD BEAM
S3.01 3/4" = 1'-0"



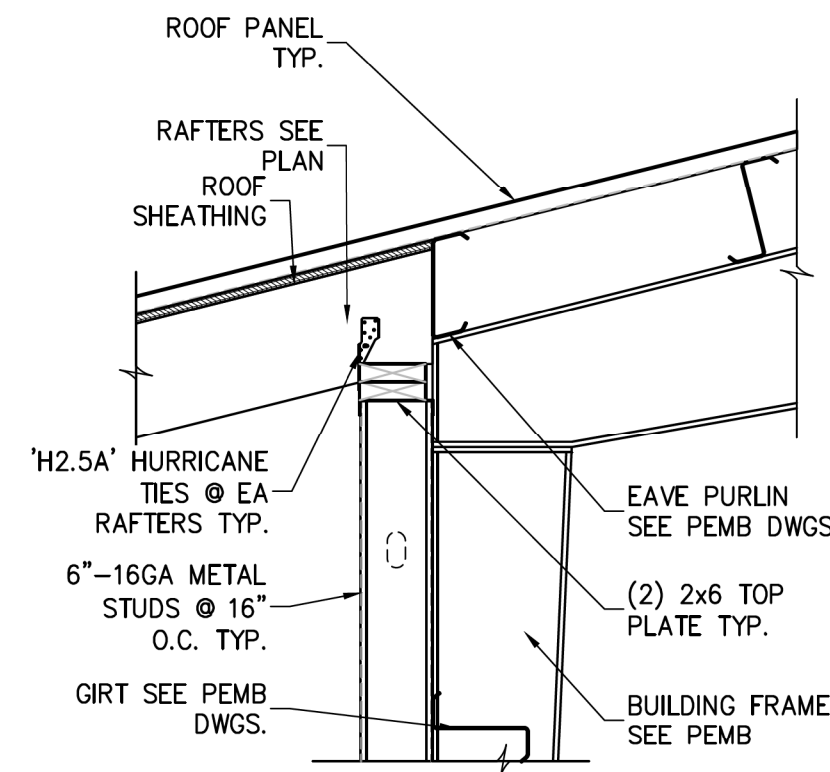
4 FLOOR JOISTS BRG. @ STUD WALL
S3.01 3/4" = 1'-0"



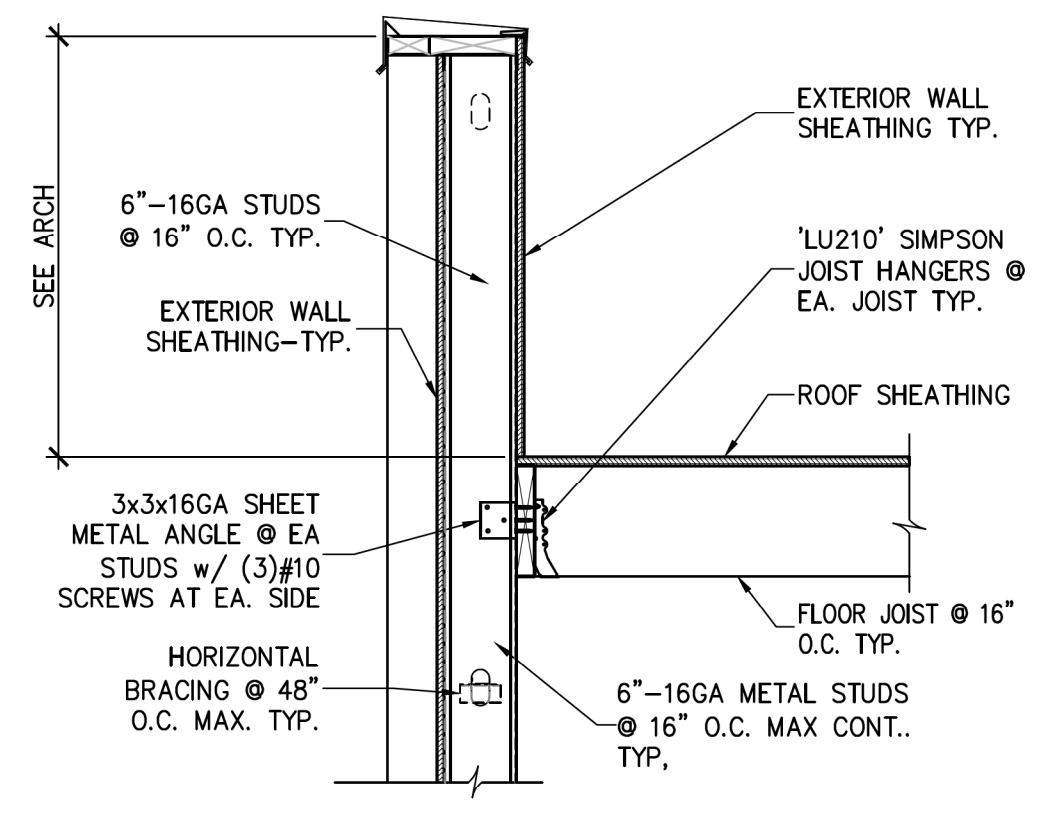
5 FLOOR JOIST BRG. @ WOOD BEAM
S3.01 3/4" = 1'-0"



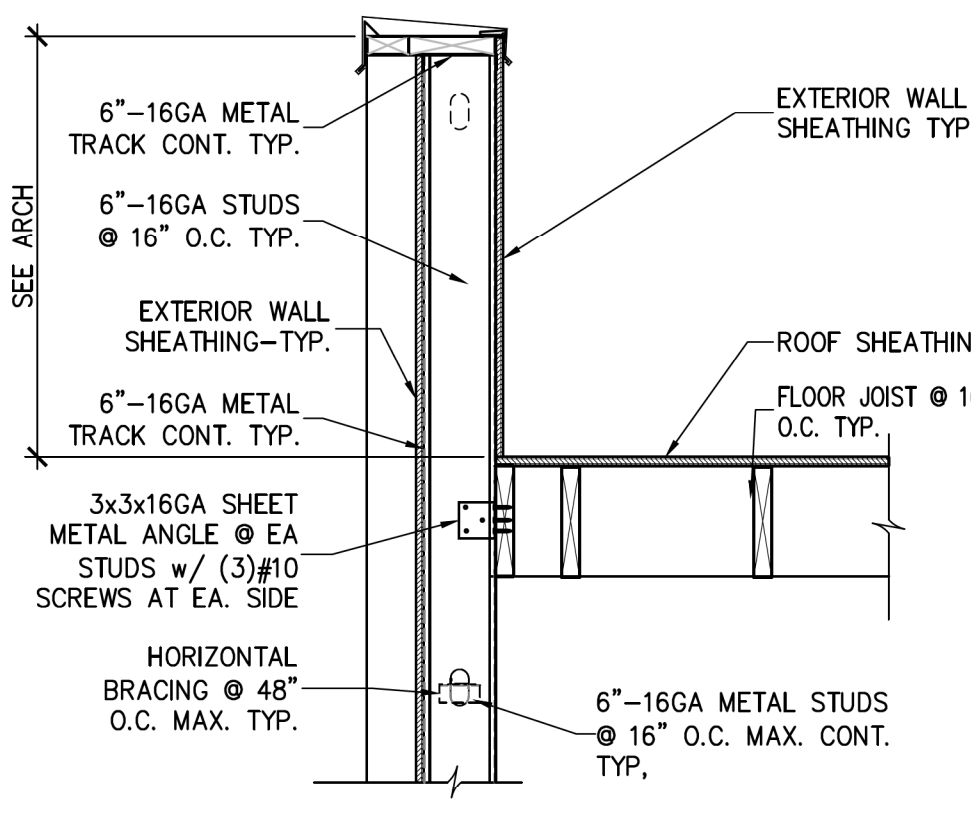
6 WOOD BEAM AT METAL STUD WALL
S3.01 3/4" = 1'-0"



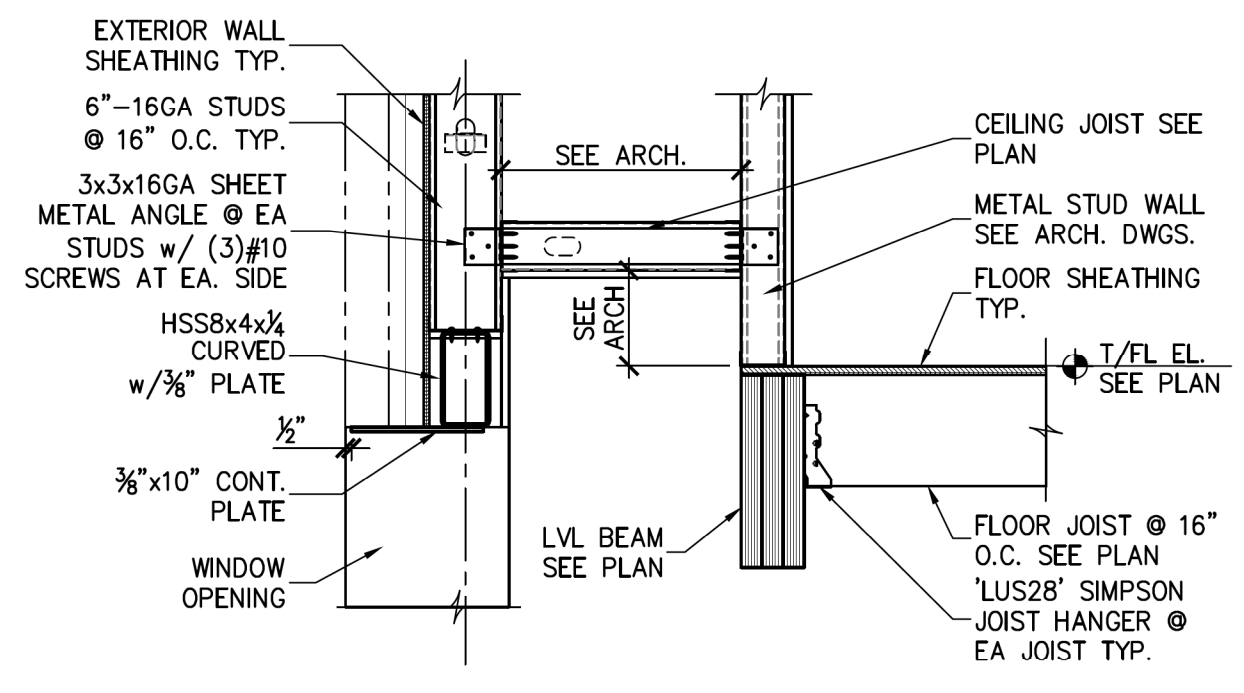
7 ROOF CONNECTION TYP.
S3.01 3/4" = 1'-0"



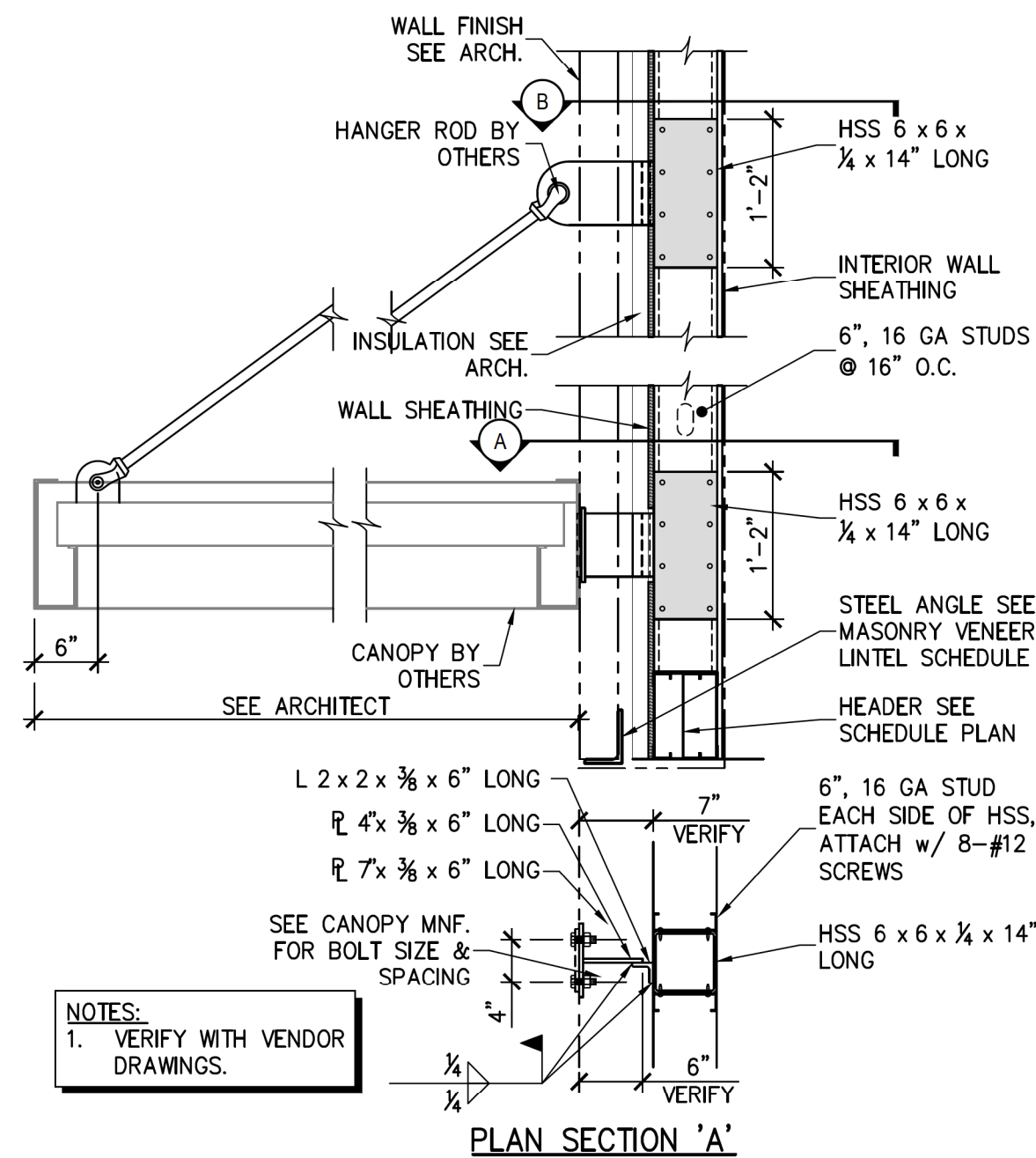
8 SECTION @ PARAPET
S3.01 3/4" = 1'-0"



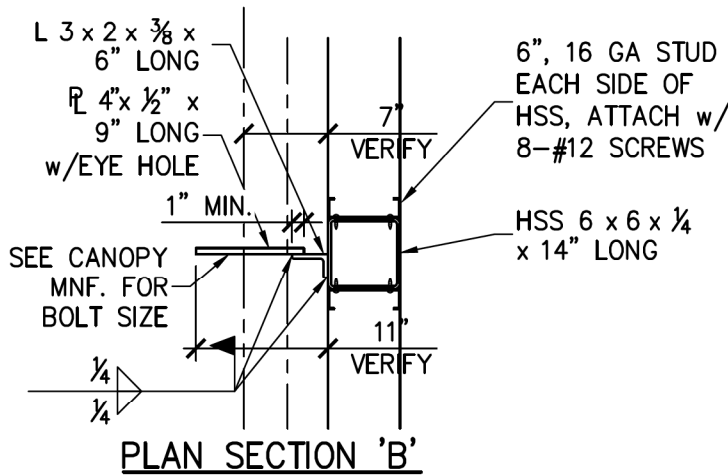
9 SECTION @ PARAPET
S3.01 3/4" = 1'-0"



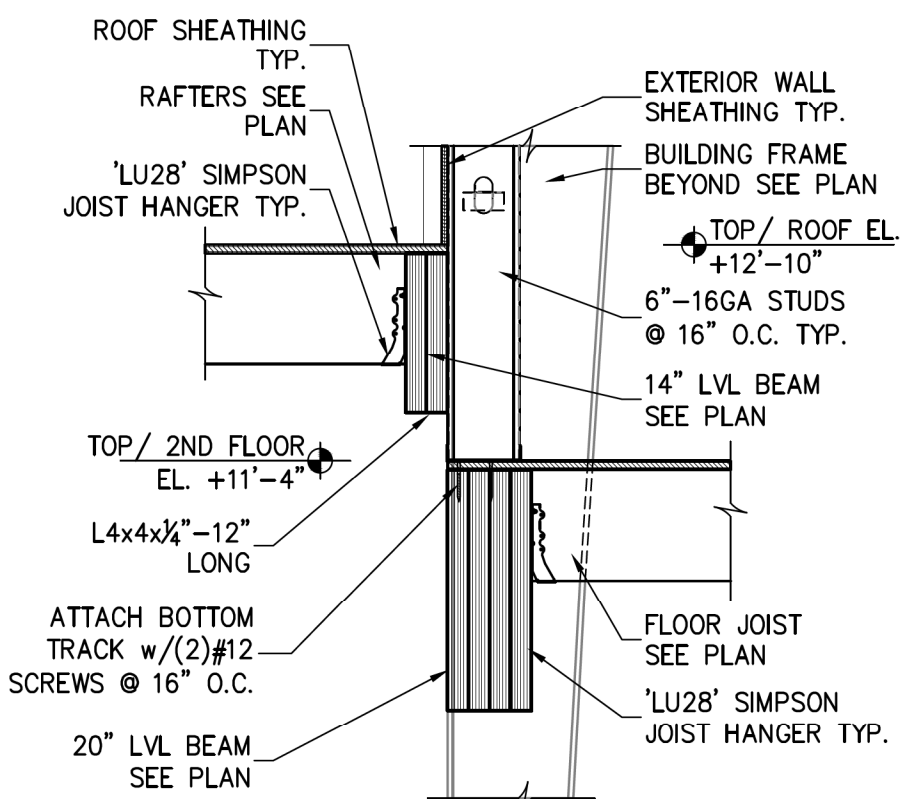
10 ROOF CONNECTION TYP.
S3.01 3/4" = 1'-0"



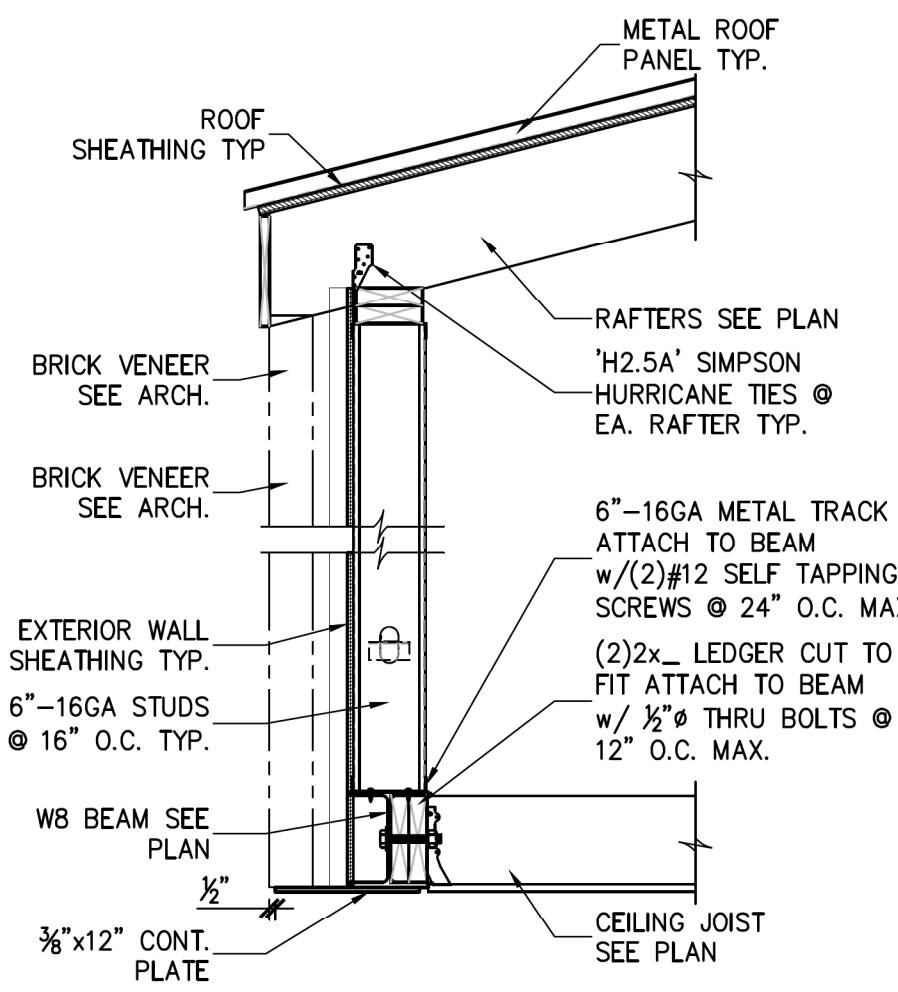
11 SECTION AT FRONT CANOPY
S3.01 3/4" = 1'-0"



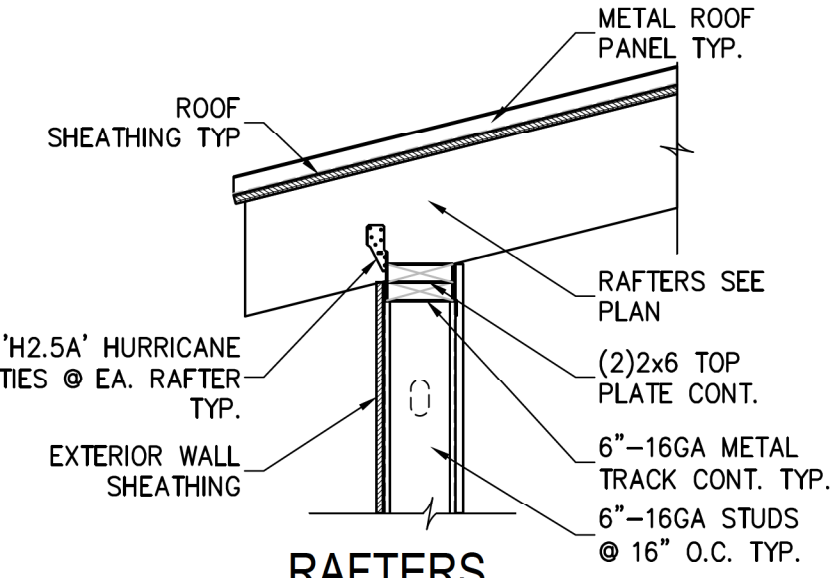
12 SECTION AT FLOOR - ROOF
S3.01 3/4" = 1'-0"



13 SECTION AT PORCH
S3.01 3/4" = 1'-0"



14 RAFTERS AT EXTERIOR WALL
S3.01 3/4" = 1'-0"



NOTES:
1. VERIFY WITH VENDOR
DRAWINGS.

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REVISIONS:	
#	DESC: DATE

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O=RPAA Engineering, P.A.,
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Date: 2025.05.12 13:08:01-0400



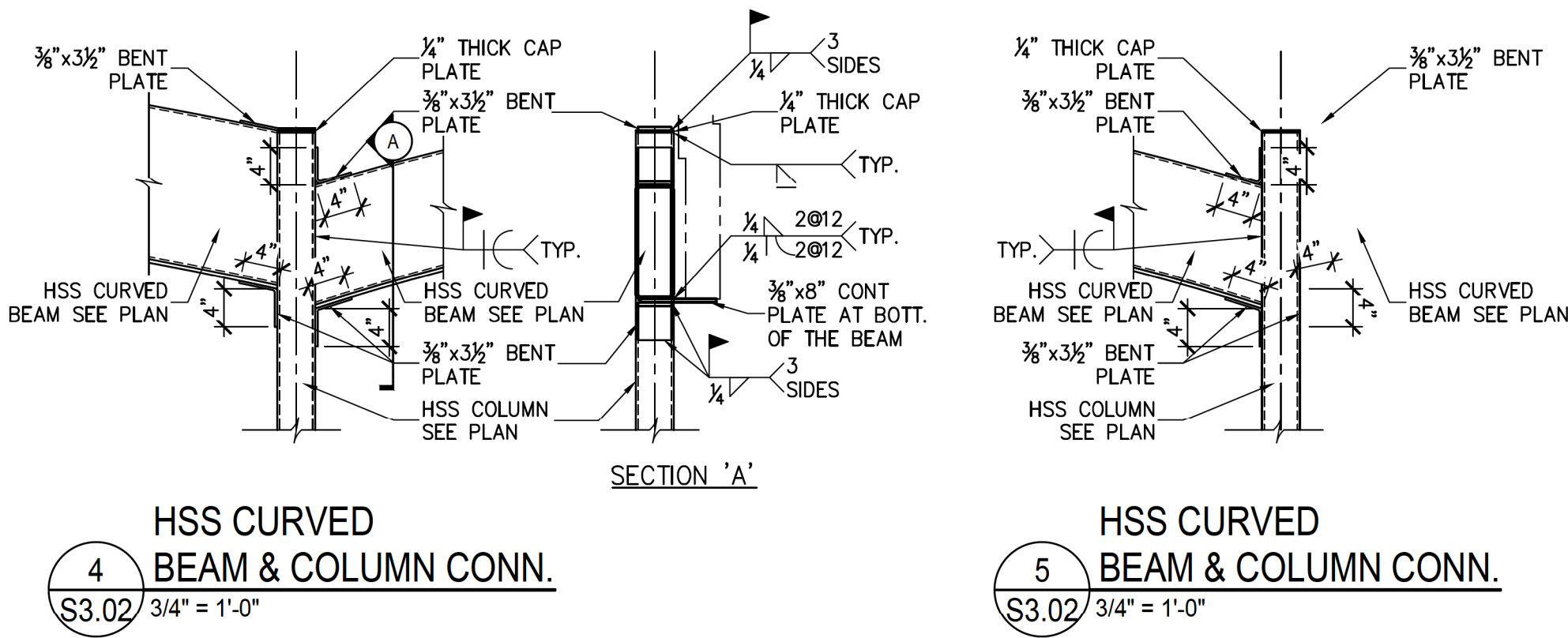
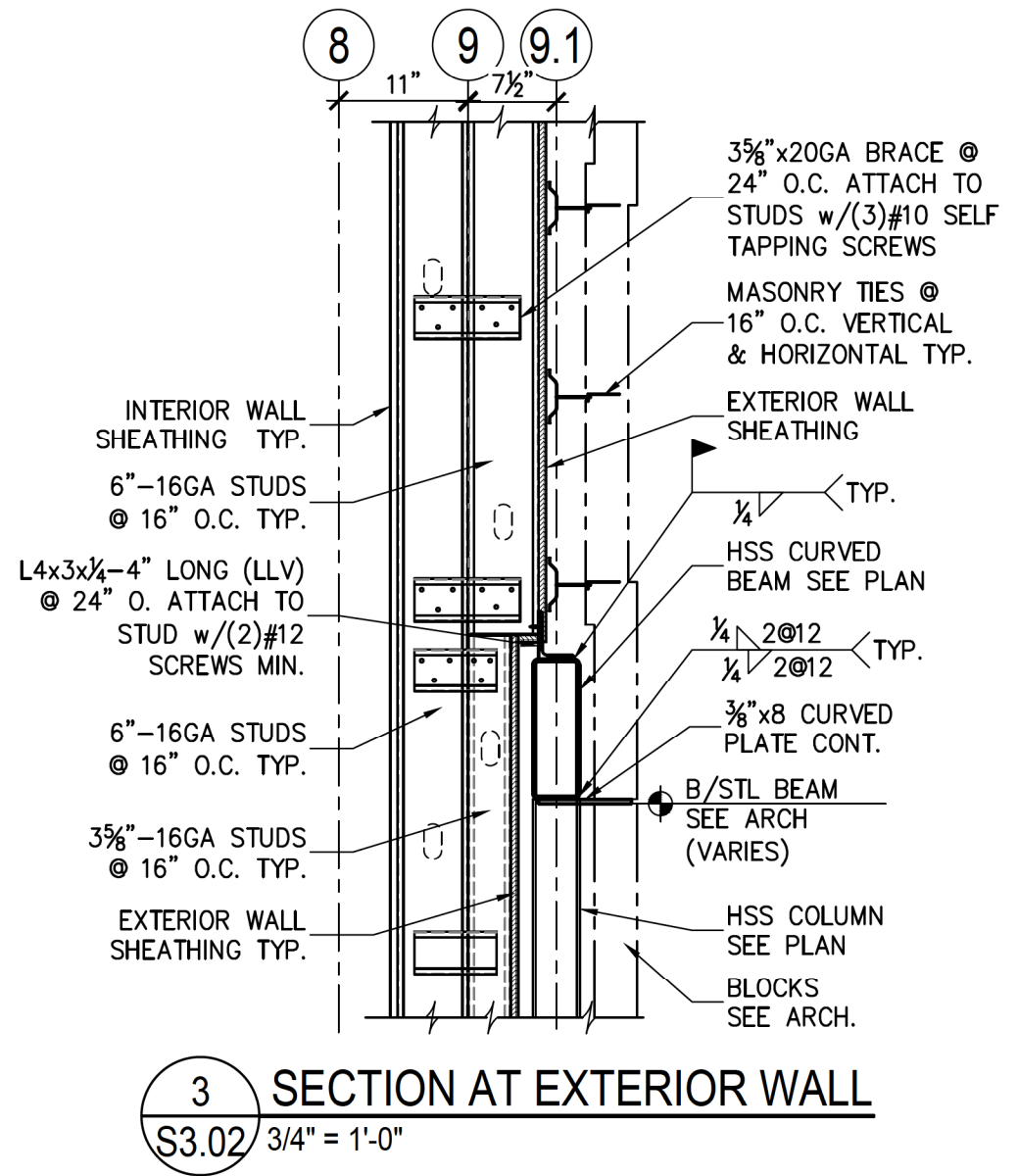
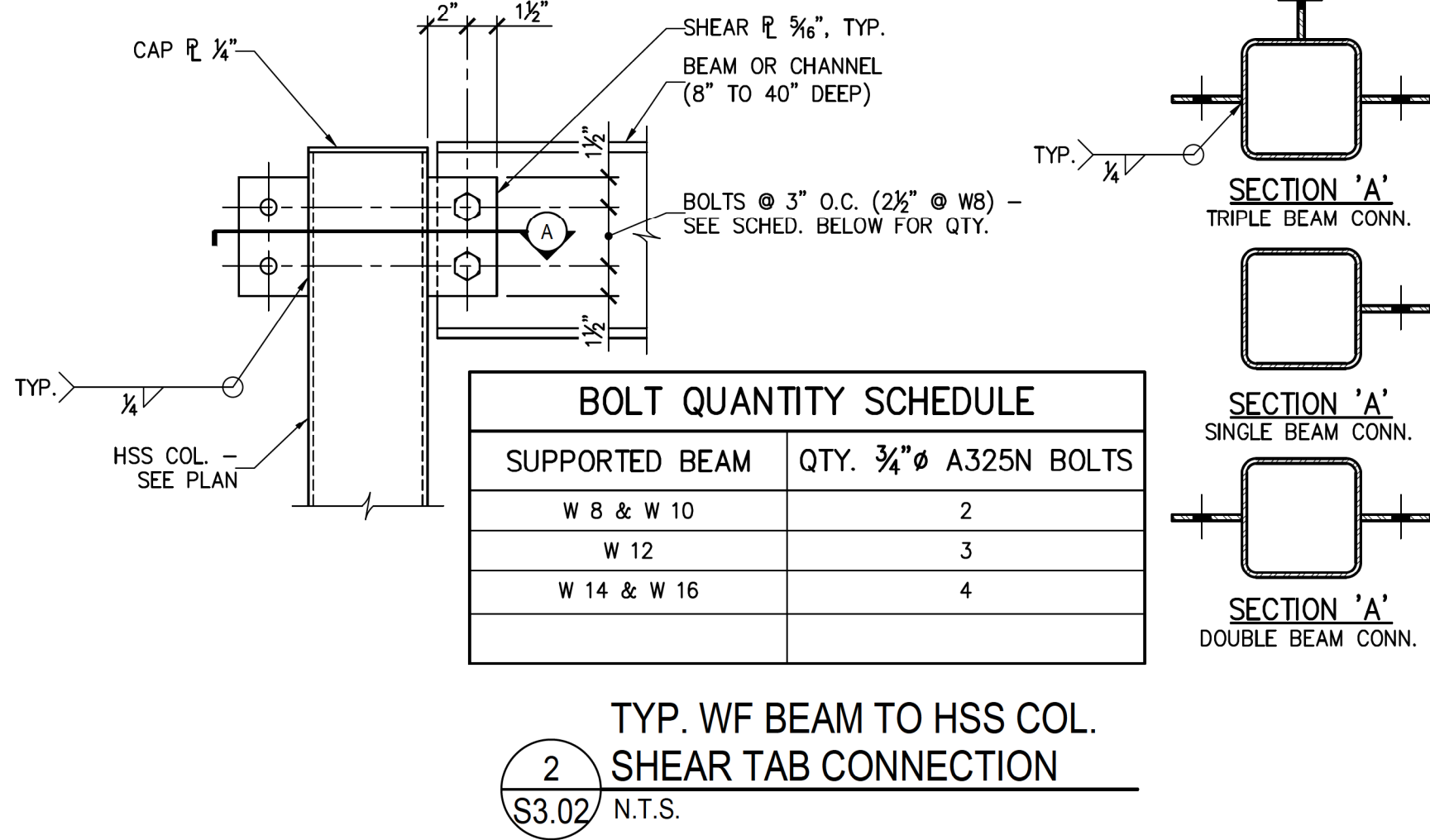
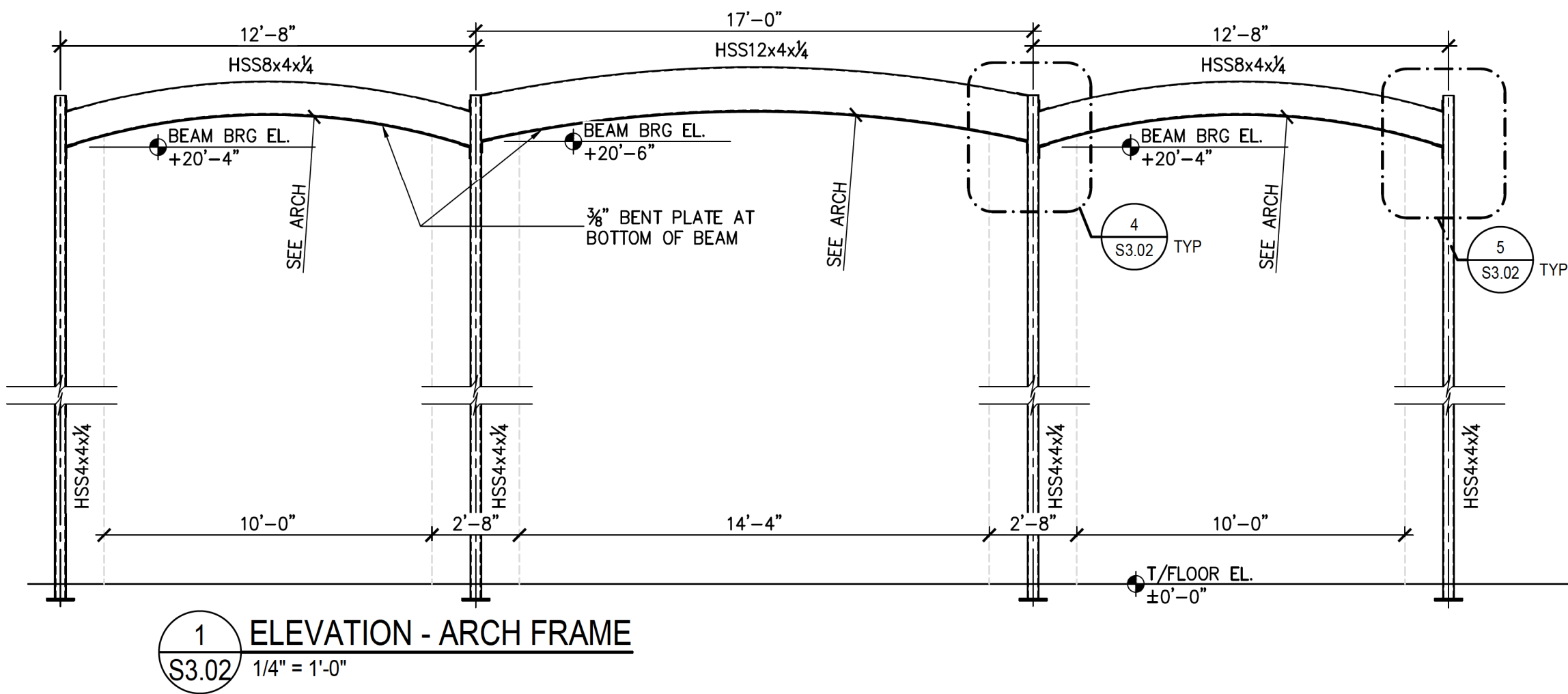
DRAWN BY: RPA/GBP RPA/MSR
PROJECT #: 24008
ISSUE DATE: 04.30.2025
PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

FRAMING SECTIONS &
DETAILS

S3.01

RPA ENGINEERING, P.A.
Structural Engineering Solutions
Engineering License Certificate No. C-2734
1 Commerce Square, Phone: 252-321-6027
Suite 202, Fax: 252-355-2179
Washington, NC 27889
RPA Project No.: 2024223



GENERAL STRUCTURAL NOTES:

1. **GENERAL NOTES**
- 1.1. METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 1.2. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SLEEVES, CURBS, INSERTS OR OPENINGS NOT HEREIN INDICATED.
- 1.3. COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS.
- 1.4. VERIFY ALL FLOOR AND ROOF OPENING SIZES AND LOCATIONS, EQUIPMENT PAD SIZES AND LOCATIONS, ANCHOR BOLT LAYOUTS, ETCETERA, WITH EQUIPMENT SELECTED.
- 1.5. VERIFY BUILDING LOCATION AND ORIENTATION WITH OWNER AND LOT SETBACK REQUIREMENTS BEFORE ANY CONSTRUCTION IS STARTED ON THE PROJECT.
- 1.6. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION DIMENSIONS WHICH IMPACT NEW CONSTRUCTION PRIOR TO FABRICATING ANY REBAR, STEEL, TRUSSES, ETCETERA.
- 1.7. DO NOT CUT, NOTCH, OR OTHERWISE MODIFY ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS WITHOUT APPROVAL OF THE ENGINEER OF RECORD.
- 1.8. CUTTING OF STEEL MEMBERS AND INSTALLATION OF HOLES IN STEEL MEMBERS SHALL BE DONE BY CUTTING OR DRILLING. DO NOT USE TORCHES FOR CUTTING UNLESS APPROVED BY THE ENGINEER OF RECORD.
- 1.9. CONTRACTOR IS RESPONSIBLE FOR DESIGN AND INSTALLATION OF ALL SHORING REQUIRED TO SUPPORT NEW AND EXISTING STRUCTURAL ELEMENTS.
2. **FOUNDATION**
- 2.1. ALL FOOTINGS SHALL BE ON UNDISTURBED SOIL OR 98% COMPACTED FILL PER ASTM D698.
- 2.2. NO FOOTINGS OR SLABS SHALL BE POURED INTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, ICE OR LOOSE MATERIAL.
- 2.3. EXCAVATIONS FOR FOOTINGS SHALL HAVE THE SIDES AND BOTTOMS TEMPORARILY LINED WITH 6 MIL. POLYETHYLENE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HRS OF THE EXCAVATION OF THE FOOTING.
- 2.4. ADVERSE FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION SUCH AS SOFT SOILS, ORGANIC MATTER, ETCETERA, SHALL BE REPORTED TO THE ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED.
- 2.5. IF UNDERMINING OF FOOTINGS OCCURS, FILL VOIDS WITH LEAN CONCRETE MIX. DO NOT ATTEMPT TO REPLACE AND RECOMPACT SOIL.
3. **REINFORCED CONCRETE MASONRY**
- 3.1. LOAD-BEARING MASONRY PIERS OR WALLS, FOUNDATION WALLS, AND ANY OTHER MASONRY SO DESIGNATED ON THE DRAWINGS, ARE CONSIDERED TO BE STRUCTURAL MASONRY.
- 3.2. COMPRESSIVE STRENGTH OF MASONRY UNITS
- SOLID CLAY UNITS 8250 PSI
- CONCRETE UNITS 1900 PSI ON NET AREA
- MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY (F_m) IS 1,900 PSI.
- 3.3. MORTAR SHALL BE TYPE 'S' ASTM C270.
- 3.4. GROUT FOR REINFORCED MASONRY SHALL BE FINE GROUT ASTM C476. MINIMUM 28 DAY COMPRESSIVE STRENGTH SHALL BE 3000 PSI. MAXIMUM HEIGHT TO WHICH MASONRY SHALL BE LAID BEFORE FILLING IS 6'-0". PROVIDE CLEANOUT OPENINGS AT THE BOTTOM OF EACH GROUT LIFT. CLEANOUT OPENINGS SHALL BE PROVIDED AT EACH CELL TO BE FILLED WITH GROUT.
- 3.5. REINFORCING GRADE AND DETAILS FOR MASONRY, SHALL BE AS THAT FOR CONCRETE. TIE IN REBAR IN POSITION, AND PLACE CONCRETE AROUND REINFORCING DURING CONSTRUCTION OF MASONRY. DO NOT PUSH REINFORCING DOWN INTO PREVIOUSLY PLACED GROUT FILL. SET BOLTS SIMILARLY. TIE WYTHES WITH HORIZONTAL REINFORCING AS SPECIFIED.
- 3.6. ALL CELLS BELOW GRADE SHALL BE FULLY GROUTED WITH MASONRY GROUT.
- 3.7. PROVIDE HORIZONTAL JOINT REINFORCING AT 16" O.C. UNLESS OTHERWISE NOTED.
- 3.8. PLACE ALL VERTICAL REINFORCING BARS IN CENTERS OF BLOCK CELLS UNLESS OTHERWISE NOTED.
- 3.9. FILL ALL CELLS, AT VERTICAL REINFORCING, FULL HEIGHT WITH MASONRY GROUT.
- 3.10. CONTRACTOR SHALL COORDINATE LOCATION OF ALL OPENINGS IN MASONRY. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
- 3.11. ALL MASONRY WORK PERFORMED, SHALL BE IN ACCORDANCE WITH ACI/ASCE 530, MASONRY CONSTRUCTION AND MATERIALS USED, SHALL CONFORM TO ALL REQUIREMENTS OF THESE CONTRACT DOCUMENTS.
- 3.12. UNLESS OTHERWISE SHOWN, MASONRY WALLS SHALL HAVE VERTICAL CONTROL JOINTS AT A MAXIMUM SPACING OF 40'-0" ON CENTER FOR BRICK AND OF 25'-0" FOR CMU. THE JOINT SHALL BE FORMED USING PVC MATERIAL CONFORMING TO ASTM D2287, TYPE PVC 654-4. COORDINATE LOCATION OF JOINTS WITH THE ARCHITECTURAL ELEVATIONS.
- 3.13. PLACE A CONTINUOUS HORIZONTAL CMU BOND BEAM AT EACH FLOOR, AND AT THE TOP OF THE WALL, AND AT INTERMEDIATE LOCATIONS AS REQUIRED TO PROVIDE A MAXIMUM VERTICAL SPACING OF 12'-0", UNLESS OTHERWISE NOTED ON THE PLAN.
4. **CONCRETE**
- 4.1. ALL PLACED CONCRETE, SHALL HAVE NORMAL WEIGHT COARSE AGGREGATES UNLESS OTHERWISE NOTED, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f_c) AT 28 DAYS AS SHOWN ON THE CONCRETE MATERIALS SCHEDULE.
- 4.2. GROUT FOR BASE PLATES SHALL BE NON-METALLIC, NON-SHRINKABLE GROUT, AND SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH, AT 28 DAYS, OF 5000 PSI.
- 4.3. CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.
- 4.4. CHAMFER ALL EXPOSED EXTERNAL CORNERS OF CONCRETE WITH ¾" x 45 DEGREE CHAMFER, UNLESS OTHERWISE NOTED.
- 4.5. HORIZONTAL FOOTING AND HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS, AND SHALL HAVE 90 DEGREE BENDS AND EXTENSIONS, OR CORNER BARS OF EQUIVALENT SIZE LAPPED, WITH A CLASS B TENSION SPLICE, AT CORNERS AND INTERSECTIONS. TOP BAR CRITERIA SHALL APPLY IF 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW BAR.
- 4.6. SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING / DAMPPROOFING DETAILS.
- 4.7. ALL DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- 4.8. SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF FLOOR FINISHES.
- 4.9. SEE MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL WALL / SLAB OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 4.10. ALL REINFORCING SHALL CONFORM TO ASTM A515, GRADE 60.
- 4.11. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- 4.12. DETAIL AND FABRICATE REINFORCING STEEL IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
- 4.13. IN-PLACE REINFORCING STEEL, SHALL BE REVIEWED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- 4.14. AT CORNERS AND INTERSECTIONS, PROVIDE BARS OF THE SAME NUMBER AND SIZE AS THE LONGITUDINAL BARS IN THE FOOTING.
- 4.15. CONCRETE MATERIALS SHALL BE AS FOLLOWS:
- 4.15.1. USE TYPE 1/II PORTLAND CEMENT CONFORMING TO ASTM C150
- 4.15.2. AGGREGATE SHALL CONFORM TO ASTM C33 (FINE AND COARSE AGGREGATES)
- 4.15.3. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260
- 4.15.4. PLASTICIZER CAN BE USED TO IMPROVE WORKABILITY IF REQUIRED
- 4.16. CONCRETE MIX DESIGN:
- 4.16.1. MAXIMUM WATER/CEMENT RATIO – 0.50 FOR SLAB, 0.55 FOR FOOTINGS AND OTHER CONCRETE UNLESS OTHERWISE NOTED.
- 4.16.2. SLUMP SHALL BE 4 INCHES TO 6 INCHES (WITHOUT PLASTICIZER)
- 4.16.3. AIR ENTRAINMENT SHALL BE 4% TO 6% (EXTERIOR CONCRETE)
- 4.17. CONCRETE SLAB SHALL BE CURED USING A WATER-BASED CURING COMPOUND. CURING COMPOUND SHALL BE APPLIED TO ALL HORIZONTAL SURFACES. ONCE THE SURFACE WATER DISSIPATES AND THE SURFACE IS NOT MARRED BY WALKING, APPLY PER MANUFACTURER'S SPECIFICATIONS.
- 4.18. CONDUCT SLUMP, AIR, AND STRENGTH TESTS OF CONCRETE IN ACCORDANCE WITH THE FOLLOWING PROCEDURES:
- 4.18.1. SECURE SAMPLES IN ACCORDANCE WITH "METHOD OF SAMPLING FRESH CONCRETE" (ASTM C 172). MOLD AND CURE FIVE SPECIMENS FROM EACH SAMPLE IN ACCORDANCE WITH "METHOD OF MAKING AND CURING CONCRETE, COMPRESSION AND FLEXURE SPECIMENS IN THE FIELD" (ASTM C 31). FIVE SPECIMENS COMPRISE ONE TEST, TEST TWO SPECIMENS AT 7 DAYS (ASTM C 39). TEST TWO SPECIMENS AT 28 DAYS IN ACCORDANCE WITH "METHOD OF TEST FOR COMPRESSIVE STRENGTH OF MOLDED CONCRETE CYLINDERS" (ASTM C 39). TEST EVALUATION SHALL BE CONDUCTED IN ACCORDANCE WITH PROVISIONS OF ACI 318-05. KEEP ONE SPECIMEN IN RESERVE.
- 4.18.2. MAKE ONE STRENGTH TEST FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF FOR EACH MIX DESIGN OF CONCRETE PLACED IN ONE DAY, EXCEPT THAT IN NO CASE SHALL A GIVEN MIX DESIGN BE REPRESENTED BY LESS THAN THREE TESTS.
5. **PRE-ENGINEERED METAL BUILDINGS**
- 5.1. CONFIGURATION, COLUMN LOCATIONS, EAVE HEIGHTS, ROOF SLOPE, ETCETERA, SHALL BE AS SHOWN ON THE DRAWINGS. SHOULD BUILDING MANUFACTURER WISH TO FURNISH A SYSTEM THAT WILL DIFFER FROM THAT SHOWN, WRITTEN APPROVAL SHALL BE OBTAINED FROM THE ARCHITECT/ENGINEER OF RECORD PRIOR TO BIDDING.
- 5.2. BUILDING DESIGN AND LOAD APPLICATION SHALL CONFORM TO THE CURRENT NORTH CAROLINA STATE BUILDING CODE. THE COLLATERAL LOAD SHALL NOT BE USED TO REDUCE THE EFFECTS OF WIND LOADS ON THE BUILDING. REFER TO THE 'GENERAL' SECTION OF THE STRUCTURAL NOTES FOR ADDITIONAL LOADING INFORMATION.
- 5.3. THE METAL BUILDING FRAMES SHALL BE DESIGNED SUCH THAT THE MAXIMUM HORIZONTAL DRIFT DUE TO WIND AND SEISMIC LOADING SHALL SATISFY AN H /180 CRITERIA. THE MAXIMUM VERTICAL DEFLECTION OF PRIMARY AND SECONDARY FRAMING MEMBERS SHALL BE WITHIN THE TOLERANCES PROSCRIBED BY THE NC STATE BUILDING CODE. MANUFACTURER SHALL VERIFY THAT THE DEFLECTION CRITERIA ARE COMPATIBLE WITH EXTERIOR AND INTERIOR FINISHES SUPPORTED BY THE METAL BUILDING STRUCTURE.
- 5.4. THE FOOTING DESIGN IS BASED UPON AN ASSUMED LOADING OF THE METAL BUILDING SUPER-STRUCTURE. THE FOUNDATIONS SHALL NOT BE CONSTRUCTED UNTIL THE STRUCTURAL ENGINEER HAS REVIEWED THE ACTUAL DESIGN REACTIONS SUPPLIED BY THE MANUFACTURER.

6. **COLD FORMED METAL FRAMING**

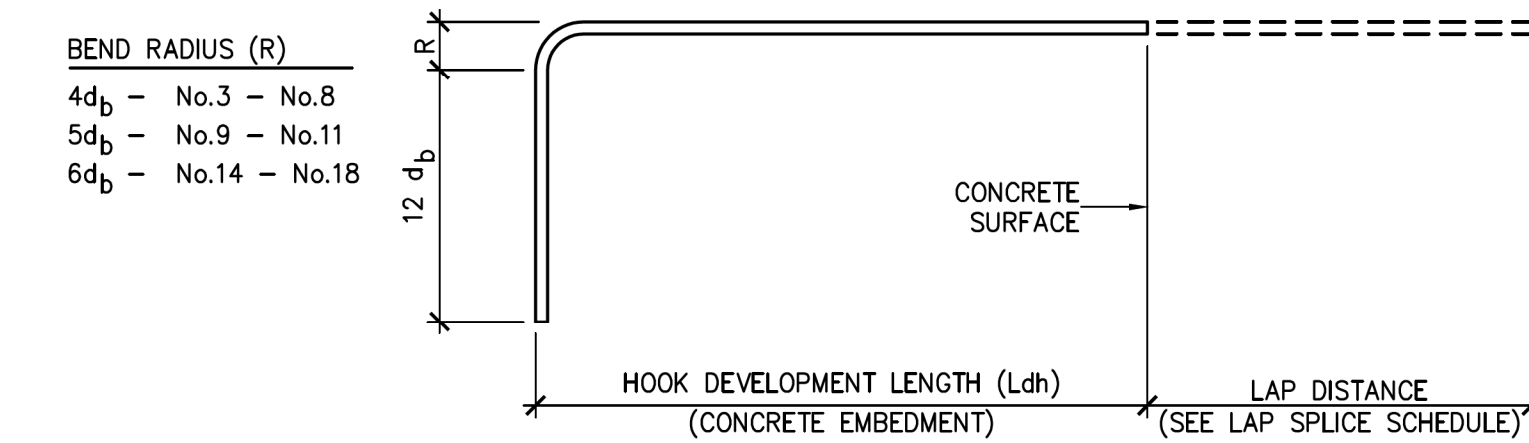
- 6.1. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY THE MANUFACTURER'S SPECIFICATIONS.
- 6.2. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) 'SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS', LATEST EDITION.
- 6.3. ALL STRUCTURAL MEMBERS SHALL BE FORMED OF CORROSION RESISTANT STEEL, CORRESPONDING TO THE REQUIREMENT OF ASTM-A446, WITH A MINIMUM YIELD STRENGTH OF 40 KSI.
- 6.4. ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED AND CONFORM TO ASTM-A525.
- 6.5. INSTALL JACK AND KING STUDS AT ALL WINDOW AND DOOR OPENINGS IN EXTERIOR WALLS AND INTERIOR LOAD-BEARING WALLS PER THE BOX BEAM HEADER SCHEDULE.
- 6.6. ALL EXTERIOR STUD WALLS ARE LOAD BEARING UNLESS OTHERWISE NOTED. SEE ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION ON CONNECTIONS. ALL EXTERIOR WALL STUDS SHALL BE 6", 16 GA., SPACED AT 16" O.C., UNLESS OTHERWISE NOTED. STUD TRACK GAUGE SHALL MATCH THE STUD GAUGE SPECIFIED UNLESS OTHERWISE NOTED.
- 6.7. BOTTOM TRACK SHALL BE ATTACHED WITH 'HILTI X-U' POWDER ACTUATED FASTENERS (0.157" SHANK DIAMETER) WITH 1¼" EMBEDMENT AT 12" O.C.
- 6.8. ALL STUDS INSTALLED BELOW STEEL BEAMS OR OTHER LOAD BEARING STRUCTURAL MEMBERS SHALL BE ATTACHED WITH A CONTINUOUS DEFLECTION TRACK OR DEFLECTION CLIPS EQUIVALENT TO 'VERTITRACK' OR 'VERTICUP' FROM THE STEEL NETWORK.

7. **WOOD FRAMING**

- 7.1. ALL STRUCTURAL WOOD MEMBERS SHALL BE No. 2 SOUTHERN YELLOW PINE, 19% MAXIMUM MOISTURE CONTENT, UNLESS OTHERWISE NOTED. INTERIOR NON BEARING PARTITIONS MAY BE No. 2 SPRUCE (SPF).
- 7.2. ALL WOOD FRAMING, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE PRESSURE TREATED, UNLESS OTHERWISE NOTED.
- 7.3. ALL LVLS, DIRECTLY EXPOSED TO WEATHER, OR IN DIRECT CONTACT WITH MASONRY, SOIL OR CONCRETE, SHALL BE EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
- 7.4. ALL METAL CONNECTORS SHALL BE HOT DIP GALVANIZED. INSTALL ALL CONNECTORS PER THE MANUFACTURER'S RECOMMENDATIONS. METAL CONNECTOR DESIGNATIONS INDICATED ON PLANS, ARE FOR 'SIMPSON STRONG-TIE' ANCHORS. ANCHORS FROM OTHER MANUFACTURERS MAY BE USED, PROVIDED THEY HAVE EQUIVALENT STRENGTH.
- 7.5. ALL NAILED CONNECTIONS SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE TABLE 2304.9.1. — FASTENING SCHEDULE, UNLESS OTHERWISE NOTED.
- 7.6. FRAMING CONNECTIONS THAT ARE BOLTED OR SCREWED, SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD.
- 7.7. PROVIDE STUDS AND HEADERS AT ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS AS FOLLOWS, UNLESS OTHERWISE NOTED:
- | OPENING WIDTH | STUDS | HEADER |
|-----------------|----------------------------|--|
| 0'-0" TO 6'-0" | 2 KING STUDS, 1 JACK STUD | (2) 2 x 10 @ 2 x 4 WALL
(3) 2 x 10 @ 2 x 6 WALL |
| 6'-1" TO 8'-0" | 2 KING STUDS, 2 JACK STUDS | (2) 2 x 10 @ 2 x 4 WALL
(3) 2 x 10 @ 2 x 6 WALL |
| 8'-1" TO 12'-0" | 3 KING STUDS, 2 JACK STUDS | (2) 2 x 12 @ 2 x 4 WALL
(3) 2 x 12 @ 2 x 6 WALL |

8. **WOOD DECKING/SHEATHING**

- 8.1. WALL SHEATHING SHALL BE ½" PLYWOOD OR ORIENTED STRAND BOARD (OSB), UNLESS OTHERWISE NOTED. ATTACH WALL SHEATHING TO FRAMING WITH 10d NAILS AT 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS. PROVIDE SOLID BLOCKING AT PANEL EDGES (48" O.C.).
- 8.2. ROOF SHEATHING SHALL BE ½" PLYWOOD OR ORIENTED STRAND BOARD (OSB), UNLESS OTHERWISE NOTED. ATTACH ROOF SHEATHING TO FRAMING WITH 8d NAILS AT 4" O.C. AT PANEL EDGES AND 12" O.C. AT INTERIOR MEMBERS.
- 8.3. SUB-FLOOR SHALL CONSIST OF ¾" TONGUE AND GROOVE PLYWOOD UNLESS OTHERWISE NOTED. FASTEN WITH 8d NAILS AT 6" O.C. AT PANEL EDGES, AND AT 12" O.C. AT INTERIOR SUPPORTS. THE FLOOR SHEATHING TO COORDINATE WITH UL FLOOR CEILING ASSEMBLY AS OUTLINED IN 'G' SERIES.



STANDARD HOOKS IN TENSION (PER ACI 318-02)				
HOOK DEVELOPMENT LENGTH Ldh (INCHES)				
BAR SIZE	f'c 3000 psi	f'c 4000 psi	f'c 5000 psi	
#3	9	7	7	
#4	11	10	9	
#5	14	12	11	
#6	17	15	13	
#7	19	17	15	
#8	22	19	17	
#9	25	22	19	
#10	28	24	22	
#11	31	26	24	

NOTES:

1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
2. BAR YIELD STRENGTH (fy) IS 60 KSI.
3. SIDE COVER REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
4. TIE OR STIRRUP REQUIREMENTS OF ACI SECTION 25.4.3.2 ARE ASSUMED TO NOT BE MET.
5. REDUCTION OF EXCESS REINFORCEMENT IS NOT TAKEN.
6. HOOK DEVELOPMENT LENGTH IS VALID FOR 180° HOOKS ALSO.
- db = BAR DIAMETER

CONCRETE MATERIALS SCHEDULE		
LOCATION	MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS)	REMARKS
FOUNDATIONS	3000 PSI	—
SLAB ON GRADE	4000 PSI	—
EQUIPMENT PADS	3000 PSI	—
CONCRETE FOR MASONRY CORES, BOND BEAMS	3000 PSI	ASTM C476 GROUT
MISCELLANEOUS	3000 PSI	—

CONCRETE REBAR SPLICE SCHEDULE			
BAR SIZE	LAP LENGTH (in.)		
	f'c = 3000 psi	f'c = 4000 psi	f'c = 5000 psi
#4	22	19	17
#5	28	24	21
#6	32	29	26
#7	48	42	37
#8	55	48	43
#9	62	54	48
#10	68	60	53
#11	76	66	59

NOTES:

1. CONCRETE IS NORMAL WEIGHT CONCRETE. IF LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LENGTHS IN TABLE BY 1.3.
2. BAR YIELD STRENGTH (fy) IS 60 KSI.
3. BAR SPACING AND COVER REQUIREMENTS OF ACI SECTION 25.4.2.2 ARE ASSUMED TO BE MET. IF NOT, MULTIPLY LENGTHS IN TABLE BY 1.5.
4. REDUCTION OF EXCESS REINFORCEMENT NOT TAKEN.
5. IF MORE THAN 12" OF FRESH CONCRETE IS CAST IN MEMBER BELOW HORIZONTAL SPLICE, MULTIPLY LENGTHS IN TABLE BY 1.3.

EXPOSED CONCRETE FINISH SCHEDULE		
AREA	FINISH	COMMENTS
EXTERIOR CONCRETE PAVEMENT, SIDEWALKS	COARSE BROOM	SEE NOTE 1
SLAB ON GRADE	TROWEL	SEE NOTE 1
EXT. EQUIP. PADS	COARSE BROOM	SEE NOTE 1
—	—	—

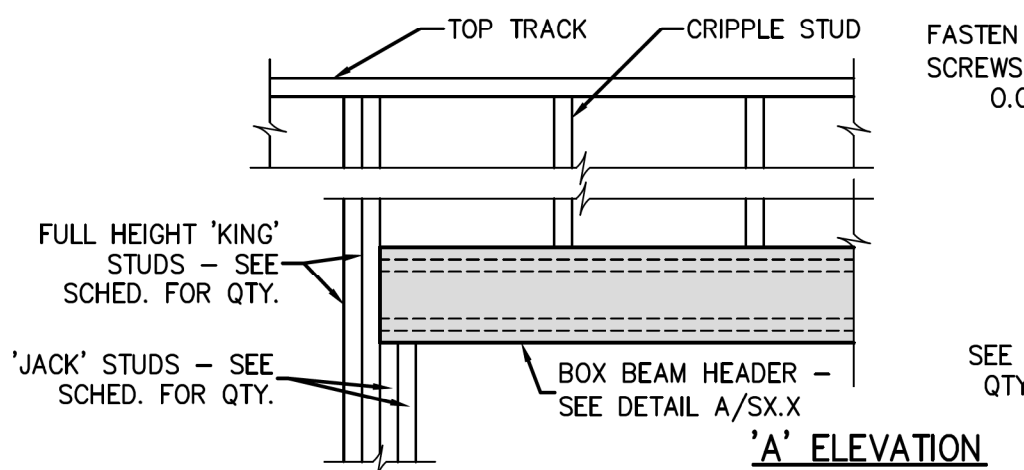
NOTES:

1. SEE SPECIFICATIONS SECTION, '033000 CAST-IN-PLACE CONCRETE', FOR ADDITIONAL INFORMATION.

MASONRY VENEER LINTEL SCHEDULE		
OPENING DIMENSION	ANGLE SIZE	ORIENTATION
0'-0" THRU 4'-0"	L 4 x 4 x ¾	N/A
4'-1" THRU 6'-0"	L 4 x 4 x ¾	N/A
6'-1" THRU 8'-0"	L 6 x 4 x ¾	LLV
8'-1" THRU 10'-0"	L 6 x 4 x ¾	LLV
10'-1" THRU 12'-0"	L 7 x 4 x ¾	LLV
—	—	—

NOTES:

1. PROVIDE LOOSE STEEL ANGLE LINTELS FOR ALL MASONRY VENEER OPENINGS, PER ABOVE DATA UNLESS NOTED OTHERWISE.
2. PROVIDE MINIMUM OF 8" BEARING FOR ALL LINTELS UNLESS NOTED OTHERWISE.
3. COORDINATE HORIZONTAL LEG SIZE WITH ARCHITECTURAL DRAWINGS. SIZES MAY NEED TO BE CHANGED TO ACCOMMODATE AIR SPACE, INSULATION AND OTHER WALL COMPONENTS.



BOX HEADER BEAM SCHEDULE			
OPENING WIDTH	JACK STUD QUANTITY	KING STUD QUANTITY	HORIZ. MEMBER QTY. & CONFIG.
0'-0" TO 4'-0"	1	2	(3) 6" x 16 GA. OR (2) 8" x 16 GA.
4'-1" TO 8'-0"	2	3	(3) 8" x 16 GA. OR (2) 10" x 16 GA.
8'-1" TO 12'-0"	3	4	(3) 10" x 16 GA.

NOTES:

1. USE INFORMATION IN THIS SCHEDULE UNLESS OTHERWISE NOTED ON PLAN.
2. SEE GENERAL STRUCTURAL NOTES, SECTION FOR 'COLD FORMED METAL FRAMING' FOR ADDITIONAL INFORMATION.

1 TYP. METAL STUD BOX BEAM DETAIL
S4.01 3/4" = 1'-0"

STRUCTURAL DESIGN CRITERIA:

DESIGN LOADS:

- 1.1. ROOF DEAD LOAD MAX MIN (FOR UPLIFT)
- ROOF MEMBRANE & INSULATION 4 PSF 2 PSF
- SHEATHING 3 PSF 2 PSF
- ROOF FRAMING 5 PSF 3 PSF
- PIPING, DUCT, ETC. 3 PSF 0 PSF
- 15 PSF 7 PSF
- 1.2. LIVE LOADS
- ROOF LIVE LOAD – ALL AREAS GREATER OF 20 PSF MINIMUM OR SNOW LOAD. LIVE LOAD REDUCTION CAN BE USED IN ACCORDANCE WITH 2018 NBCB, SECTION 1607.10
- 1ST FLOOR LIVE LOAD 100 PSF
- 2ND FLOOR LIVE LOAD 40 PSF (OFFICE)
- 1.3. SNOW LOAD
- GROUND SNOW LOAD = 10 PSF (MAYSVILLE, NC)
- SNOW LOAD IMPORTANCE FACTOR: I = 1.25
- SNOW EXPOSURE FACTOR = 1.0
- SNOW THERMAL FACTOR = 1.0
- ROOF SNOW LOAD = 10 PSF
- BASIC DESIGN ROOF SNOW LOAD = 12.5 PSF
- 1.4. WIND LOAD
- BASIC WIND SPEED: Vult = 150 MPH (MAYSVILLE, NC)
- RISK CATEGORY: I II III IV
- WIND EXPOSURE CATEGORY: 'B' (ASCE 7-10)
- WIND BASE SHEAR (FOR MWFRS): Vx = K Vy = K
- INTERNAL PRESSURE COEFFICIENT: ±0.55
- 1.5. SEISMIC LOADS (N.C. STATE BLDG. CODE):
- SEISMIC IMPORTANCE FACTOR: I = 1.0
- RISK CATEGORY: I II III IV
- SEISMIC DESIGN CATEGORY: A B C D
- MAPPED SPECTRAL RESPONSE ACCELERATION: Ss 13.7 % g S1 6.7 % g
- SPECTRAL RESPONSE COEFFICIENTS: Sds 14.6 % S1 10.6 %
- SEISMIC RESPONSE COEFFICIENT: Cs
- RESPONSE MODIFICATION FACTOR, R (-----)
- SITE CLASSIFICATION: A B C X D E F
- BASIC STRUCTURAL SYSTEM:
- BEARING WALL DUAL w/ SPECIAL MOMENT FRAME
- BUILDING FRAME DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL
- X MOMENT FRAME INVERTED PENDULUM
- SEISMIC BASE SHEAR Vx = K Vy = K
- ANALYSIS PROCEDURE: SIMPLIFIED X EQUIVALENT LATERAL FORCE MODAL
- LATERAL DESIGN CONTROL: EARTHQUAKE WIND
- ALL DESIGN LOADS ARE PER NORTH CAROLINA STATE BUILDING CODE 2018 EDITION.
- WIND LOADS CONTROL THE LATERAL LOAD DESIGN. THE BUILDING UTILIZES SHEAR WALLS FOR LATERAL LOAD RESISTANCE.
- 2.1. MINIMUM FOOTING BEARING DEPTH BELOW GRADE IS 12 INCHES.
- 2.2. FOUNDATION DESIGN IS BASED ON A PRESUMPTIVE MAXIMUM ALLOWABLE SOIL BEARING CAPACITY OF 1,500 PSF.
- 2.3. CONTRACTOR SHALL FIELD VERIFY THE SOIL BEARING CAPACITY PRIOR TO START OF CONSTRUCTION.

NOTE:
SEE PRE-ENGINEERED METAL
BUILDING DRAWINGS FOR
INFORMATION NOT SHOWN.



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REVISIONS:

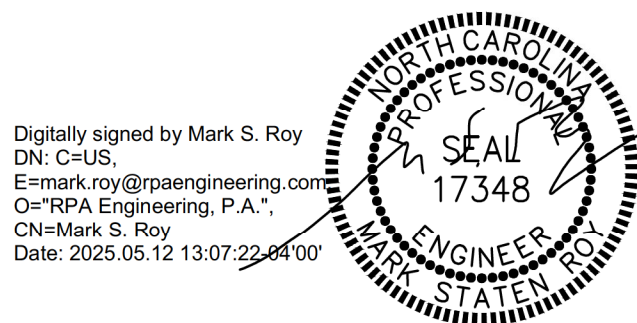
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DRAWN BY: RPA/GBP RPA/MSR
PROJECT #: 24008
ISSUE DATE: 04.30.2025
PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

FRAMING SECTIONS & DETAILS

S4.01



Digitally signed by Mark S. Roy
DN: cn=US,
E=mark.roy@rpaengineering.com,
O=RPA Engineering, P.A.,
cn=Mark S. Roy
Date: 2025.05.12 13:07:22-0400

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RPA Project No.: 2024223	

Signature
Date

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<input checked="" type="checkbox"/> Cast-in-Place Concrete	<input checked="" type="checkbox"/> Wood Construction
<input type="checkbox"/> Precast Concrete	<input checked="" type="checkbox"/> Exterior Insulation and Finish Systems
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<input type="checkbox"/> Structural Steel	<input type="checkbox"/> Architectural Systems
<input checked="" type="checkbox"/> Cold-Formed Steel Framing	<input type="checkbox"/> Special Cases

Other

\$4.02

FIRE SPRINKLER PROJECT SCOPE

- 1
- THE SCOPE OF THIS PROJECT INCLUDES THE COMPLETE CONSTRUCTION OF THE FOLLOWING FIRE PROTECTION SYSTEMS, DESIGNED TO PROTECT THE NEW CONSTRUCTION TWO (2) STORY FIRE STATION.
- 2
- THE CONSTRUCTION OF THREE (3) WET-PIPE FIRE SPRINKLER SYSTEMS. A SEPARATE FIRE SPRINKLER SYSTEM SHALL BE PROVIDED FOR EACH FLOOR AND THE TRUCK BAY. EACH FLOOR IS APPROXIMATELY 5,000 SQFT AND THE TRUCK BAY IS APPROXIMATELY 5,700 SQFT. THE FIRST FLOOR AND MEZZANINE FIRE SPRINKLER CONTROL VALVES SHALL BE LOCATED IN THE STAIR. THE FIRE SPRINKLER CONTROL VALVES FOR THE TRUCK BAY SHALL BE PROVIDED N THE SOUTH-WEST CORNER OF THE TRUCK BAY.
- 3
- THE BUILDING CONSTRUCTION TYPE IS V-B (COMBUSTIBLE CONSTRUCTION). TO AVOID INSTALLING SPRINKLERS IN THE ATTIC OR OTHER CONCEALED SPACES, ALL EXPOSED MATERIAL IN THE CONCEALED SPACES SHALL BE CONSTRUCTED OF FIRE RETARDANT TREATED WOOD OR THE SPACES MAY BE FILLED WITH NONCOMBUSTIBLE INSULATION PER NFPA 13 8.15.1.2.

FIRE SPRINKLER GENERAL REQUIREMENTS

- 1
- DESIGN AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS: 2018 NORTH CAROLINA BUILDING CODE, 2018 NORTH CAROLINA FIRE PREVENTION CODE, NFPA 13 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEMS (2013), AS REFERENCED APPLICABLE NFPA STANDARDS, THE STATE OF NORTH CAROLINA DEPARTMENT OF ADMINISTRATION STATE CONSTRUCTION OFFICE WATER BASED FIRE PROTECTION SYSTEMS GUIDELINES AND POLICIES, AND ALL LOCAL AHJ REQUIREMENTS.
- 2
- NO CHANGES TO THE "FP" SHEETS BY THE SPRINKLER SUBCONTRACTOR ARE ALLOWED EXCEPT FOR ADDING SHOP DRAWING INFORMATION. ALL REQUIRED REVISIONS TO THE "FP" SHEETS (OTHER THAN MINOR REVISIONS FOR THE PURPOSE OF COORDINATION) AND ANY ABNORMAL CONDITIONS THAT WOULD RESULT IN NON-COMPLIANCE SHALL BE SUBMITTED IN WRITING AND SHALL BE APPROVED BY PERFORMANCE BASED FIRE PROTECTION ENGINEERING, PLLC AND THE AHJ.
- 3
- THE FIRE SPRINKLER SYSTEMS IN THIS BUILDING SHALL BE MONITORED BY A CENTRAL STATION SIGNALING SYSTEM FURNISHED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. ALL TAMPER SWITCHES AND WATER FLOW INDICATORS SHALL BE INSTALLED BY THE SPRINKLER CONTRACTOR AND WIRED TO THE CENTRAL STATION SIGNALING SYSTEM BY THE ALARM CONTRACTOR.
- 4
- ALL PIPE LENGTHS SHOWN ARE CENTER TO CENTER DIMENSIONS.
- 5
- ALL INSPECTOR'S TEST CONNECTIONS AND LOW POINT DRAINS SHALL BE IN ACCORDANCE WITH NFPA 13 AND SHALL BE DISPLAYED ON SHOP DRAWINGS. MOUNT CONTROL VALVES FOR INSPECTOR'S TEST CONNECTION AND LOW POINT DRAINS INSIDE BUILDING AT 5'-0" A.F.F. PIPE DRAIN LINES TO EXTERIOR OF BUILDING. COORDINATE WITH THE ARCHITECT FOR ACCEPTABLE LOCATIONS.
- 6
- SPRINKLERS IN T-BAR CEILING SHALL BE PLACED IN QUARTER POINT OR CENTER OF 2x4 TILE. IN ALL SOFFITED AREAS, SPRINKLERS SHALL BE ALIGNED WITH ADJACENT LIGHTING.
- 7
- SIGNAGE SHALL BE PROVIDED AS REQUIRED, INCLUDING RISER ROOM IDENTIFICATION, FDC, TEST CONNECTIONS AND HYDRAULIC PLACARD.
- 8
- FLOW SWITCH SHALL BE CONNECTED TO AN OUTSIDE ALARM BELL OR OTHER AUDIBLE ALARM DEVICE AT EACH RISER. APPROVED IDENTIFICATION SIGNS SHALL BE PROVIDED ON THE OUTSIDE ALARM BELL "SPRINKLER FIRE ALARM - WHEN ALARM SOUNDS CALL 911 / FIRE DEPARTMENT"
- 9
- REFERENCE THE CIVIL DRAWINGS FOR ADDITIONAL FIRELINE INFORMATION AND ACTUAL LENGTHS OF PIPE. THE LAYOUT SHOWN ON THE CIVIL DRAWINGS WILL SUPERCEDE WHAT IS SHOWN ON THE FIRE PROTECTION SITE PLAN. THE FIRE PROTECTION SITE PLAN IS FOR HYDRAULIC REFERENCE ONLY.
- 10
- THIS AREA IS NOT KNOWN TO HAVE PROBLEMS WITH MICROBIAL INDUCED CORROSION. NO PREVENTATIVE MEASURES ARE DESIGNED INTO THIS SYSTEM.
- 11
- THE FIRE DEPARTMENT CONNECTION (FDC) IS LOCATED ON THE EXTERIOR OF THE REMOTE HOTBOX ATTACHED TO THE BACKFLOW PREVENTER.
- 12
- QUICK RESPONSE SPRINKLERS SHALL BE INSTALLED THROUGHOUT (UNLESS OTHERWISE NOTED).
- 13
- THE SITE CLASSIFICATION IS "D" RESULTING IN A SEISMIC DESIGN CATEGORY "C." THEREFORE, SEISMIC REQUIREMENTS ARE NOT REQUIRED FOR THIS FACILITY.
- 14
- FOLLOW ALL REQUIREMENTS FOR SPRINKLERS IN CONCEALED SPACES FOR COMBUSTIBLE CONSTRUCTION AS DETAILED IN NFPA 13 8.15.1.

FIRE SPRINKLER CONTRACTOR REQUIREMENTS



















- 1
- THE FIRE SPRINKLER SUBCONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, SEALING, PATCHING, AND PAINTING REQUIRED FOR INSTALLATION OF THE SPRINKLER SYSTEM. ALL PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED WITH AN APPROVED MATERIAL AS PRESCRIBED IN THE APPLICABLE CODES AND STANDARDS.
- 2
- THE FIRE SPRINKLER SUBCONTRACTOR SHALL BE LICENSED AS REQUIRED BY THE STATE AND LOCAL AHJ FOR THE DESIGN AND INSTALLATION OF AUTOMATIC SPRINKLER SYSTEMS.
- 3
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS AS REQUIRED BY THE STATE AND LOCAL AHJ.
- 4
- THE FIRE SPRINKLER CONTRACTOR SHALL PREPARE A SHOP DRAWING SUBMITTAL, HYDRAULIC CALCULATIONS, AND EQUIPMENT CUTSHEET PACKAGE SUBMITTAL, AND SUBMIT TO THE ENGINEER AND AUTHORITY HAVING JURISDICTION, FOR APPROVAL. APPROVAL OF SHOP DRAWINGS AND EQUIPMENT SHALL BE OBTAINED PRIOR TO STARTING WORK.
- 5
- SPRINKLER CONTRACTOR IS RESPONSIBLE TO COORDINATE AND ADJUST SPRINKLE AND PIPING TO ACCOUNT FOR ELECTRICAL, MECHANICAL, STRUCTURE AND ALL OTHER TRADES AT NO ADDITIONAL COST.
- 6
- CONTRACTOR SHALL PROVIDE OWNER WITH TEST CERTIFICATES, CARE & MAINTENANCE BOOK, COPY OF NFPA 25, SPARE SPRINKLER CABINET WITH SPRINKLERS, AND REQUIRED SPRINKLER WRENCHES IN ACCORDANCE WITH NFPA 13.
- 7
- DELIVERY OF ALL MATERIALS AND EQUIPMENT TO THE JOB SITE SHALL BE SCHEDULED TO ASSURE COMPLIANCE WITH THE PREDETERMINED CONSTRUCTION SCHEDULE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STORAGE AND HANDLING ALL MATERIALS AND EQUIPMENT ON THE JOB SITE, INCLUDING FURNISHING OF ANY STORAGE FACILITIES OR STRUCTURE REQUIRED.
- 8
- THE SYSTEM SHOWN ON THESE PLANS REQUIRES A CONNECTION TO THE UNDERGROUND FIRE PROTECTION MAIN. THE CONTRACTOR WHO INSTALLS THE UNDERGROUND PIPING FROM THE POINT OF SERVICE IS RESPONSIBLE FOR COMPLETING THE INSTALLATION TO THE ABOVE GROUND FIRE SPRINKLER SYSTEM CONNECTION FLANGE OR GROOVED CONNECTION. ALL FIRE PROTECTION UNDERGROUND DOWNSTREAM OF THE POINT OF SERVICE IDENTIFIED ON THE PLANS SHALL BE INSTALLED BY A LICENSED CLASS I, CLASS II, OR CLASS V FIRE PROTECTION CONTRACTOR AS REQUIRED BY THE STATE FIRE MARSHAL. THE UNDERGROUND CONTRACTOR IS RESPONSIBLE FOR COMPLETING THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING DOCUMENT. ABOVE GROUND CONTRACTORS MAY NOT COMPLETE THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR THE UNDERGROUND PIPING OR PORTION THEREOF WHICH HAVE BEEN INSTALLED BY OTHERS.

FIRE SPRINKLER MATERIAL REQUIREMENTS

- 1
- ALL MATERIALS SHALL BE UL LISTED OR FM APPROVED.
- 2
- ALL INTERIOR PIPE SHALL BE BLACK STEEL: SCHEDULE 10 FOR PIPES 2 1/2" AND LARGER AND SCHEDULE 40 FOR PIPES 2" AND SMALLER.
- 3
- ALL EXTERIOR PIPE (INCLUDING NIPPLES OR SPOOL PIECES EXTENDING THROUGH EXTERIOR WALLS) SHALL BE SCHEDULE 40 GALVANIZED STEEL.
- 4
- ALL INTERIOR GROOVED FITTINGS SHALL COME WITH THE FACTORY APPLIED COATING.
- 5
- ALL INTERIOR THREADED FITTINGS SHALL BE CAST IRON, DUCTILE IRON OR MALLEABLE IRON.
- 6
- ALL EXTERIOR FITTINGS SHALL BE GALVANIZED.
- 7
- PROVIDE RIGID COUPLINGS THROUGHOUT, EXCEPT FLEXIBLE COUPLINGS SHALL BE INSTALLED AS FOLLOWS: WITHIN 24 IN. OF THE TOP AND BOTTOM OF ALL RISERS; ON BOTH SIDES OF CONCRETE OR MASONRY WALLS WITHIN 1 FT. OF THE WALL SURFACE; WITHIN 24 IN. OF BUILDING EXPANSION JOINTS; WITHIN 24 IN. OF THE TOP AND BOTTOM OF DROPS TO HOSE LINES, RACK SPRINKLERS, AND MEZZANINES, REGARDLESS OF PIPE SIZE; WITHIN 24 IN. OF THE TOP OF DROPS EXCEEDING 15 FT. IN LENGTH TO PORTIONS OF SYSTEMS SUPPLYING MORE THAN ONE SPRINKLER, REGARDLESS OF PIPE SIZE; ABOVE AND BELOW ANY INTERMEDIATE POINTS OF SUPPORT FOR A RISER OR OTHER VERTICAL PIPE.
- 8
- HANGER LOCATION FOR ALL PIPING SHALL BE IN ACCORDANCE WITH NFPA 13. ALTERNATE UL AND FM HANGER METHODS ARE ACCEPTED AT NO ADDITIONAL COST TO THE OWNER. PROVIDE UL AND FM LITERATURE TO PERFORMANCE BASED FIRE PROTECTION ENGINEERING, PLLC AND THE AHJ FOR REVIEW AND ACCEPTANCE.

FIRE SPRINKLER TESTING REQUIREMENTS

- 1
- THE FIRE SPRINKLER SYSTEM SHALL BE HYDROSTATICALLY PRESSURE TESTED IN ACCORDANCE WITH NFPA 13.
- 2
- ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.
- 3
- LOSS SHALL BE DETERMINED BY A DROP IN GAUGE PRESSURE OR VISUAL LEAKAGE.
- 4
- THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW POINT OF THE SYSTEM OR PORTION BEING TESTED. THE PRESSURES IN PIPING AT HIGHER ELEVATIONS SHALL BE PERMITTED TO BE LESS THAN 200 PSI WHEN ACCOUNTING FOR ELEVATION LOSSES. SYSTEMS OR PORTIONS OF SYSTEMS THAT CAN BE ISOLATED SHALL BE PERMITTED TO BE TESTED SEPARATELY.

FIRE SPRINKLER LEGEND		
PLAN	PROFILE	DESCRIPTION
		FIRE SPRINKLER HEAD
		TEE
		ELBOW
		ENDCAP
		REDUCER
		BUTTERFLY VALVE
		OS&Y GATE VALVE
		2 1/2" HOSE VALVE
		CHECK VALVE
		FLOOR CONTROL VALVE

HYDRAULIC CALCULATION SUMMARY





REMOTE AREA NAME:	SYSTEM DEMAND:	SAFETY FACTOR:
RA1 - OH2 - TRUCK BAYS	585.7 GPM @ 34.92 PSI	03.38 PSI

WATER SUPPLY INFO




Raw Flow Test Data:

Static Pressure:	50.00 psi *
Residual Pressure:	47.00 psi *
Residual Flow:	882.70 GPM *
Conducted By:	ERIK GAWLOWSKI
Date of Test:	02/18/2025
Time of Test:	10:58
Location of Test:	HYDRANT #19

* A SAFETY FACTOR TO ACCOUNT FOR FLUCTUATIONS IN WATER SUPPLY WAS APPLIED, THE DESIGN CALCULATIONS SHALL BE BASED ON AN AVAILABLE WATER SUPPLY OF 10 PSI LESS STATIC PRESSURE, 10 PSI LESS RESIDUAL PRESSURE, AND 10% LESS RESIDUAL FLOW THAN MEASURED.

ANNOTATION LEGEND	
PLAN	DESCRIPTION
	PIPE DIAMETER OVER PIPE LENGTH
	KEY NOTE TAG
	HAZARD CLASSIFICATION TAG
	REMOTE AREA

SHEET LIST	
SHEET NAME	SHEET NUMBER
GENERAL FIRE SPRINKLER NOTES	FP001
SITE PLAN	FP002
LEVEL 1 FIRE SPRINKLER PLAN	FP101
MEZZANINE FIRE SPRINKLER PLAN	FP102
FIRE SPRINKLER BUILDING SECTIONS	FP301
FIRE SPRINKLER DETAILS	FP401

FIRE SPRINKLER SYSTEM DESIGN SCHEDULE													
AREAS	SYSTEM TYPE	HAZARD CLASSIFICATION	SYMBOL	DENSITY (GPM/SQFT)	DESIGN AREA (SQFT)	HOSE ALLOWANCE (GPM)	DURATION (MIN)	MAX HEAD SPACING (SQFT)	SPRINKLER TYPE	K-FACTOR	POSITION	FINISH	TEMPERATURE (°F)
OFFICES, HALLWAY, RESTROOMS, BUNKS	WET-PIPE	LIGHT HAZARD		0.10	1,500 ^a	100	60	225	QUICK RESPONSE STANDARD SPRAY	5.6	CONCEALED PENDENT	CONCEALED TO MATCH CEILING	155
MECHANICAL, STORAGE, DECON	WET-PIPE	ORDINARY HAZARD (GROUP 1)		0.15	1,500 ^a	250	90	130	QUICK RESPONSE STANDARD SPRAY	5.6	UPRIGHT CONCEALED PENDENT	BRASS CONCEALED TO MATCH CEILING	155
TRUCK BAY	WET-PIPE	ORDINARY HAZARD (GROUP 2)		0.20	1,500 ^a	250	90	130	QUICK RESPONSE STANDARD SPRAY	8.0	UPRIGHT	WHITE POLYESTER	175

a. DESIGN AREA IS PERMITTED TO BE REDUCED FOR QUICK RESPONSE SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13 11.2.3.2.3



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PROJECT #: 24008
ISSUE DATE: 04/30/2025
PHASE:
CONSTRUCTION DOCUMENTS
SHEET NAME & NUMBER
GENERAL FIRE SPRINKLER NOTES

FP001

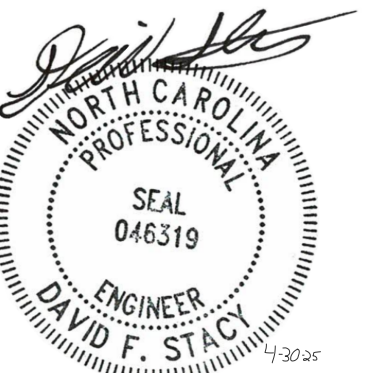


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SITE PLAN

SITE PLAN - N.T.S.

FOR HYDRAULIC REFERENCE ONLY

FP002



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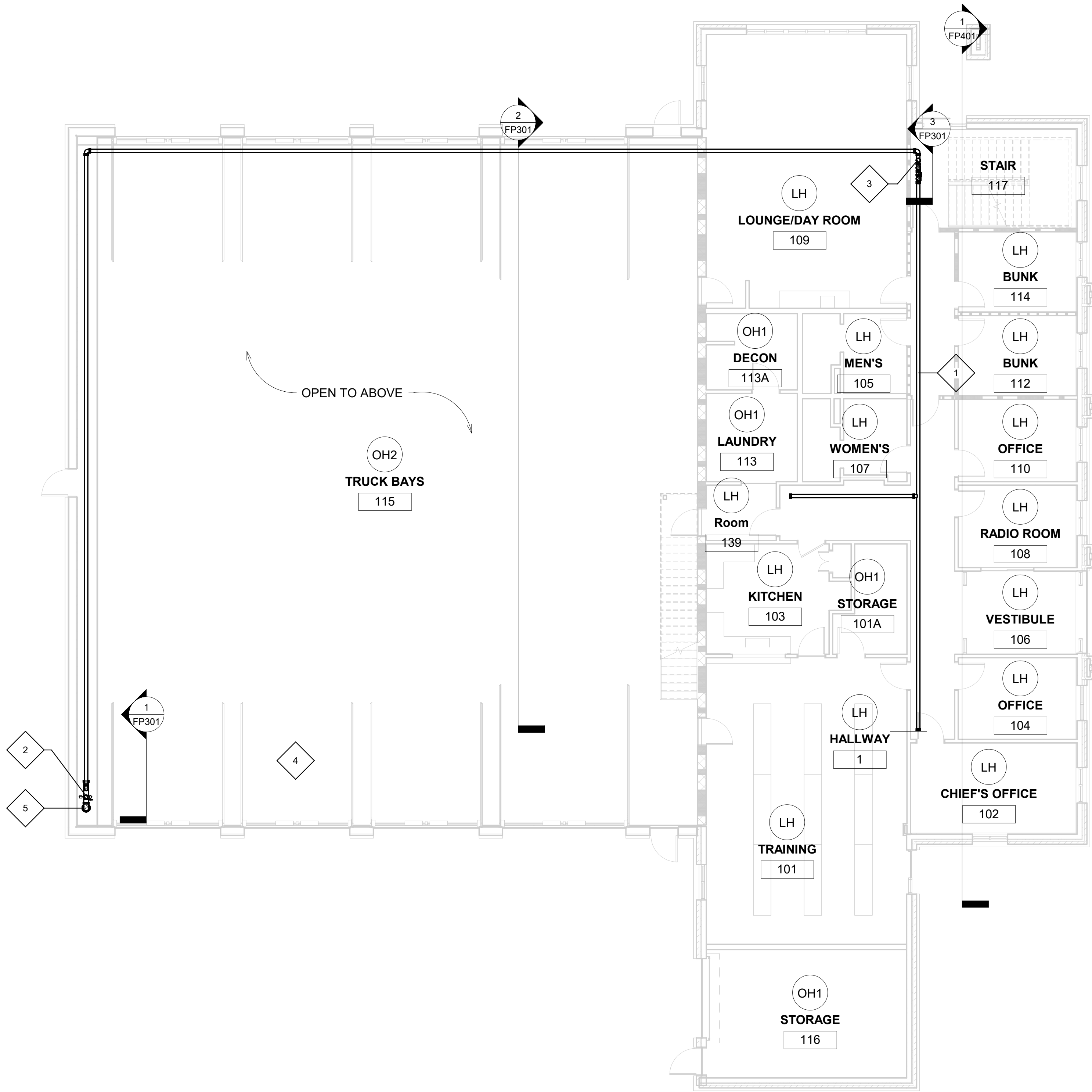
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SHEET NAME & NUMBER
LEVEL 1 FIRE SPRINKLER PLAN

KEYNOTE LEGEND

- 1 REPRESENTATIVE FIRE SPRINKLER MAIN.
- 2 FEED UP TO CEILING SPRINKLER SYSTEM.
- 3 FEED UP TO FLOOR ABOVE.
- 4 PROVIDE SPRINKLER PROTECTION BELOW TRACK DOORS VIA SIDEWALL SPRINKLERS.
- 5 PROTECT RISER ASSEMBLY WITH BOLLARDS OR OTHER PROTECTION.



1 FIRST FLOOR FIRE SPRINKLER PLAN
1/8" = 1'-0"

FP101



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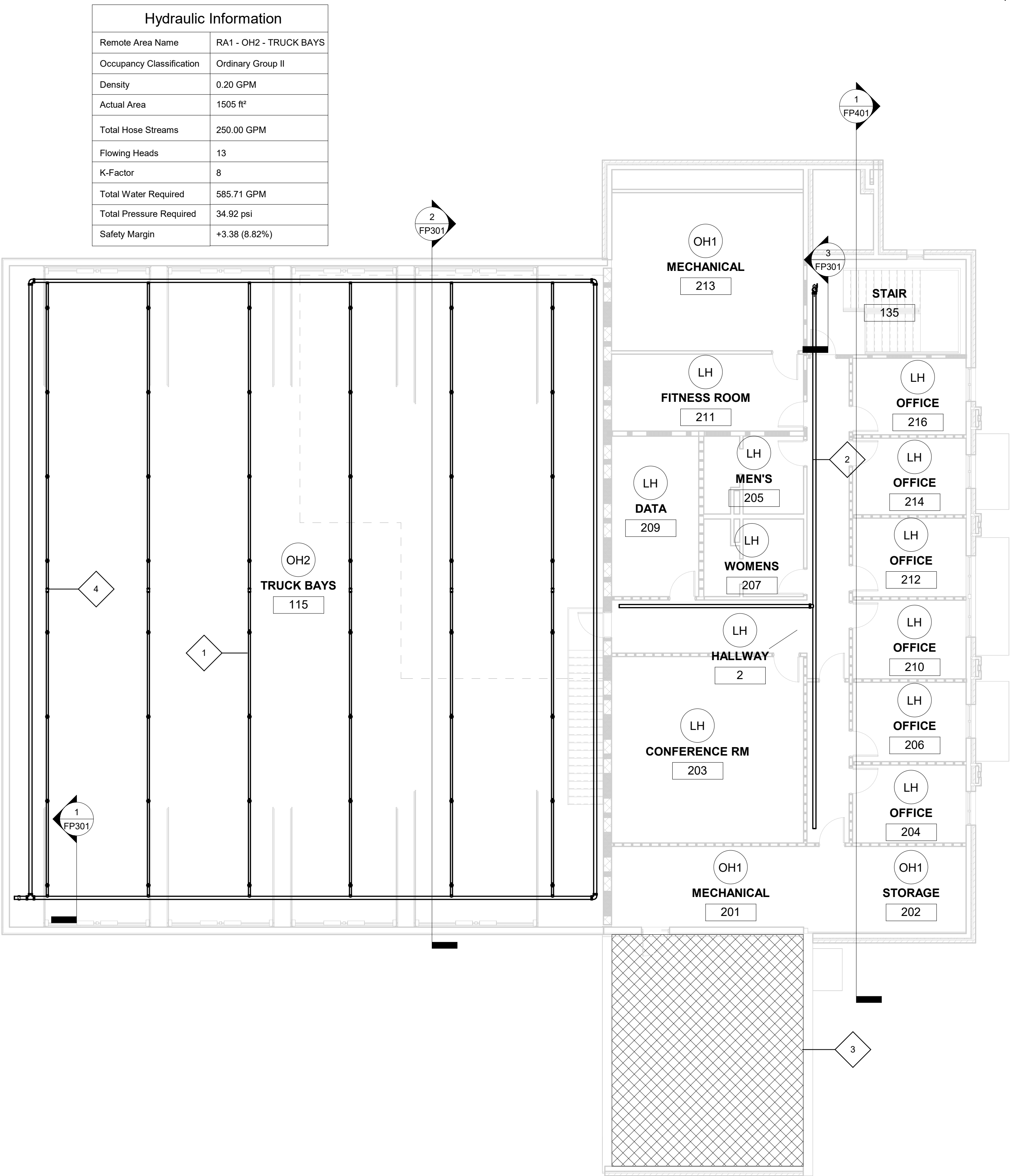
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PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
MEZZANINE FIRE SPRINKLER PLAN

FP102

KEYNOTE LEGEND

- 1 PROVIDE FACTORY PAINTED SCHEDULE 40 PIPE THROUGHOUT TRUCK BAYS WITH WHITE POLYESTER SPRINKLERS.
- 2 REPRESENTATIVE FIRE SPRINKLER MAIN.
- 3 UNENCLOSED/OPEN TO SKY. NO SPRINKLER PROTECTION REQUIRED.
- 4 PROVIDE REMOTE AUTOMATIC AIR VENTING IN ACCORDANCE WITH NFPA 13 (TYPICAL FOR ALL SYSTEMS).



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



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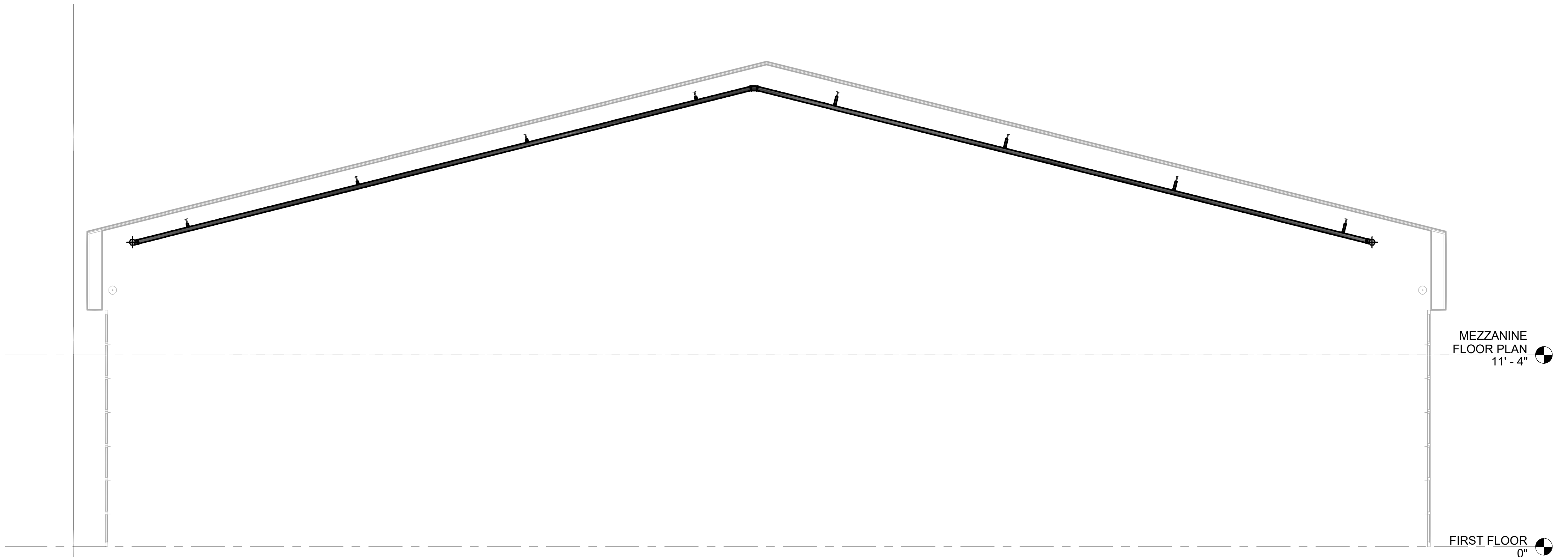
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SHEET NAME & NUMBER
FIRE SPRINKLER BUILDING
SECTIONS

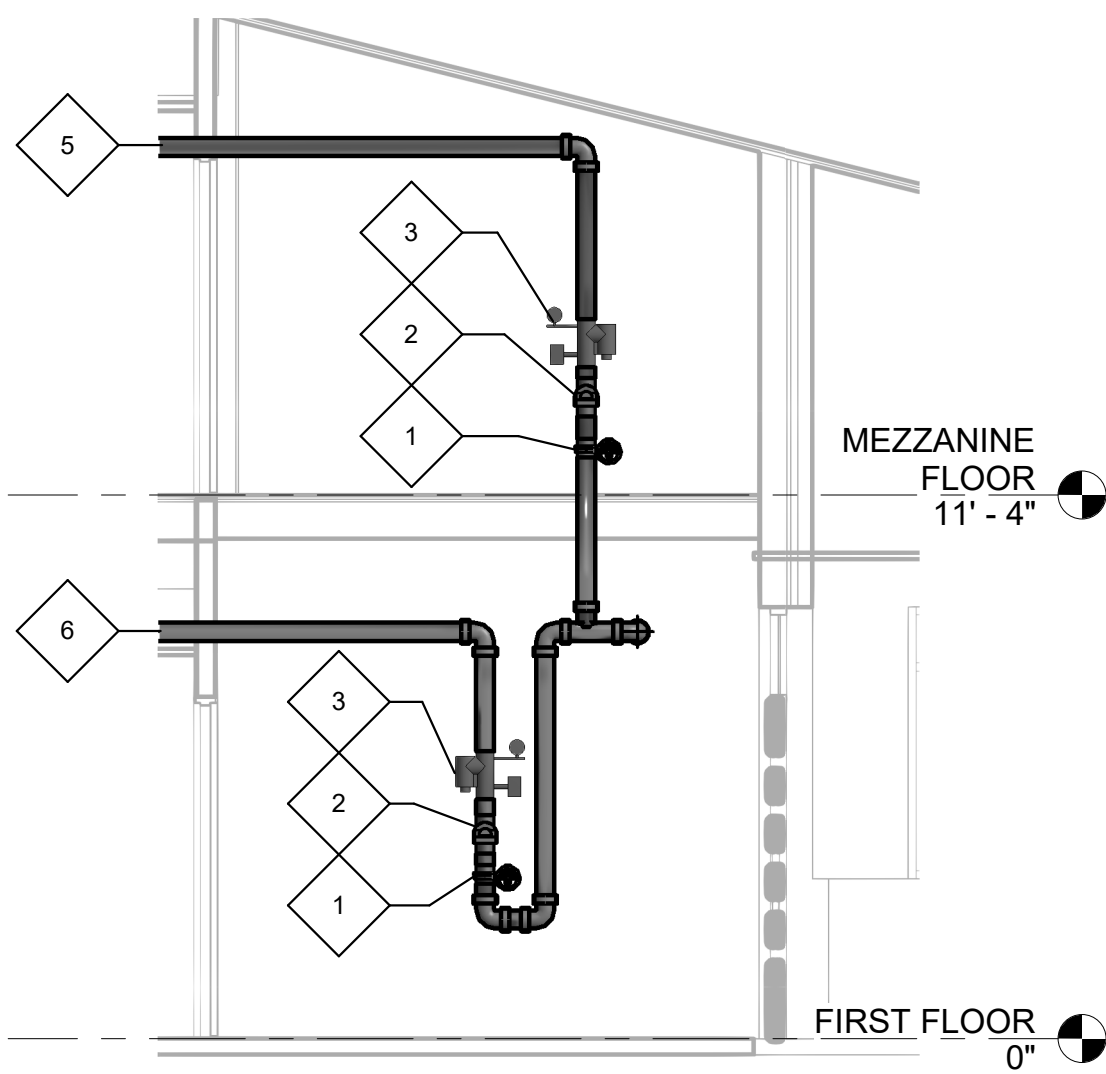
FP301

KEYNOTE LEGEND

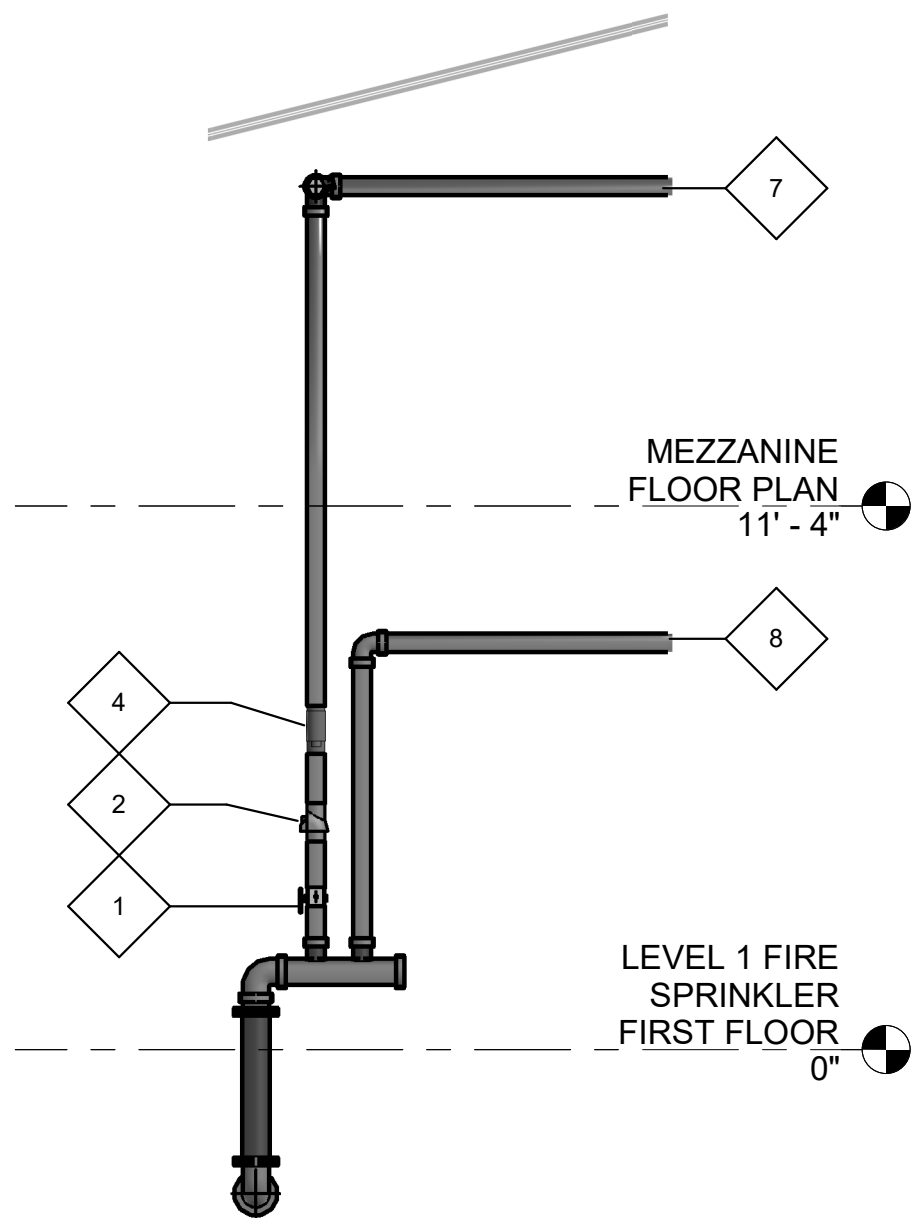
- 1 BUTTERFLY VALVE.
- 2 CHECK VALVE.
- 3 PROVIDE FLOOR CONTROL VALVE WITH FLOW SWITCH, PRESSURE GAUGE AND INSPECTOR'S TEST AND DRAIN.
- 4 PROVIDE CONTROL VALVE WITH FLOW SWITCH, PRESSURE GAUGE AND INSPECTOR'S TEST AND DRAIN.
- 5 FEED TO MEZZANINE FIRE SPRINKLER SYSTEM.
- 6 FEED TO FIRST FLOOR FIRE SPRINKLER SYSTEM.
- 7 FEED UP TO CEILING SPRINKLER SYSTEM.
- 8 FEED TO STAIR RISER.



② TRUCK BAY FIRE SPRINKLER SECTION
1/4" = 1'-0"



③ STAIR RISER SECTION
1/4" = 1'-0"



① TRUCK BAY RISER SECTION
1/4" = 1'-0"



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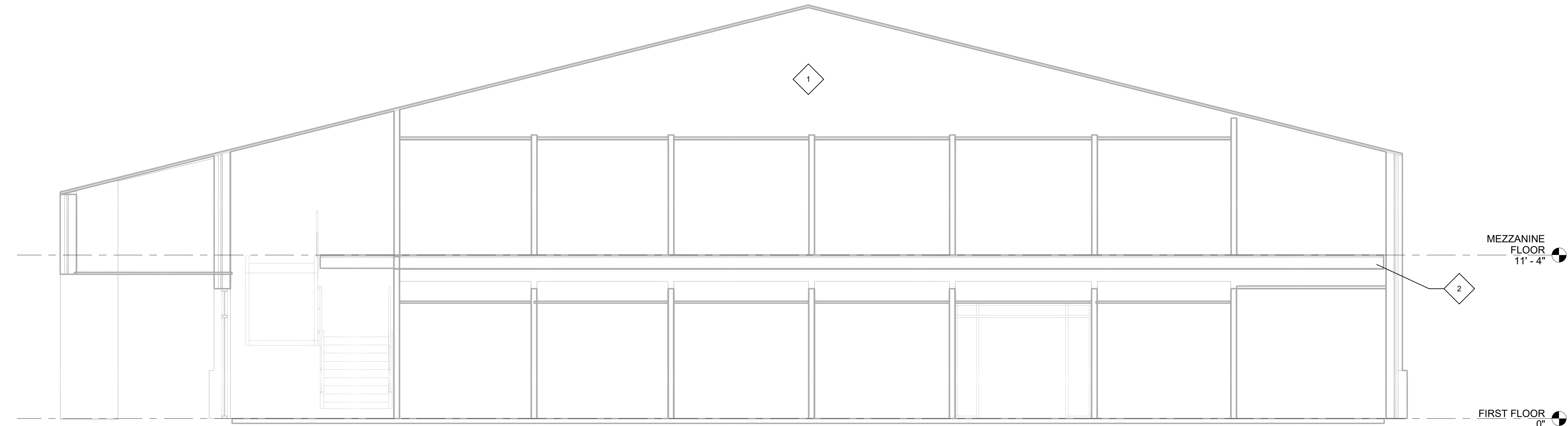
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SHEET NAME & NUMBER
FIRE SPRINKLER DETAILS

FP401

KEYNOTE LEGEND

- 1
- CONCEALED SPACES IN WHICH THE EXPOSED MATERIALS ARE CONSTRUCTED ENTIRELY OF FIRE RETARDANT-TREATED WOOD AS DEFINED BY NFPA 703 SHALL NOT REQUIRE SPRINKLER PROTECTION, PER NFPA 13 8.15.1.2.11.
- 2
- NO SPRINKLERS ARE REQUIRED IN THE CONCEALED SPACE IF THE SPACES BETWEEN THE CEILING AND THE WOOD JOISTS IS LESS THAN 6 INCHES PER NFPA 13 8.15.1.2.5. IF THE GAP IS LARGER THAN 6 INCHES, THE SPACE MAY BE FILLED WITH NONCOMBUSTIBLE INSULATION TO OMIT SPRINKLERS PER NFPA 13 8.15.1.2.7.



1 OFFICE FIRE SPRINKLER SECTION
1/4" = 1'-0"



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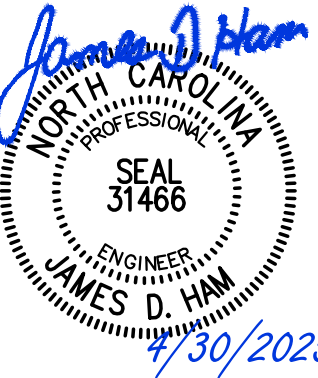
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PROJECT NO. 224010 PROJECT MGR. DRAWN BY
D. HAM D. HILL



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PLUMBING PLANS

FIRE RATING LEGEND
1 - HR FIRE BARRIER
0.5 - HR FIRE PARTITION

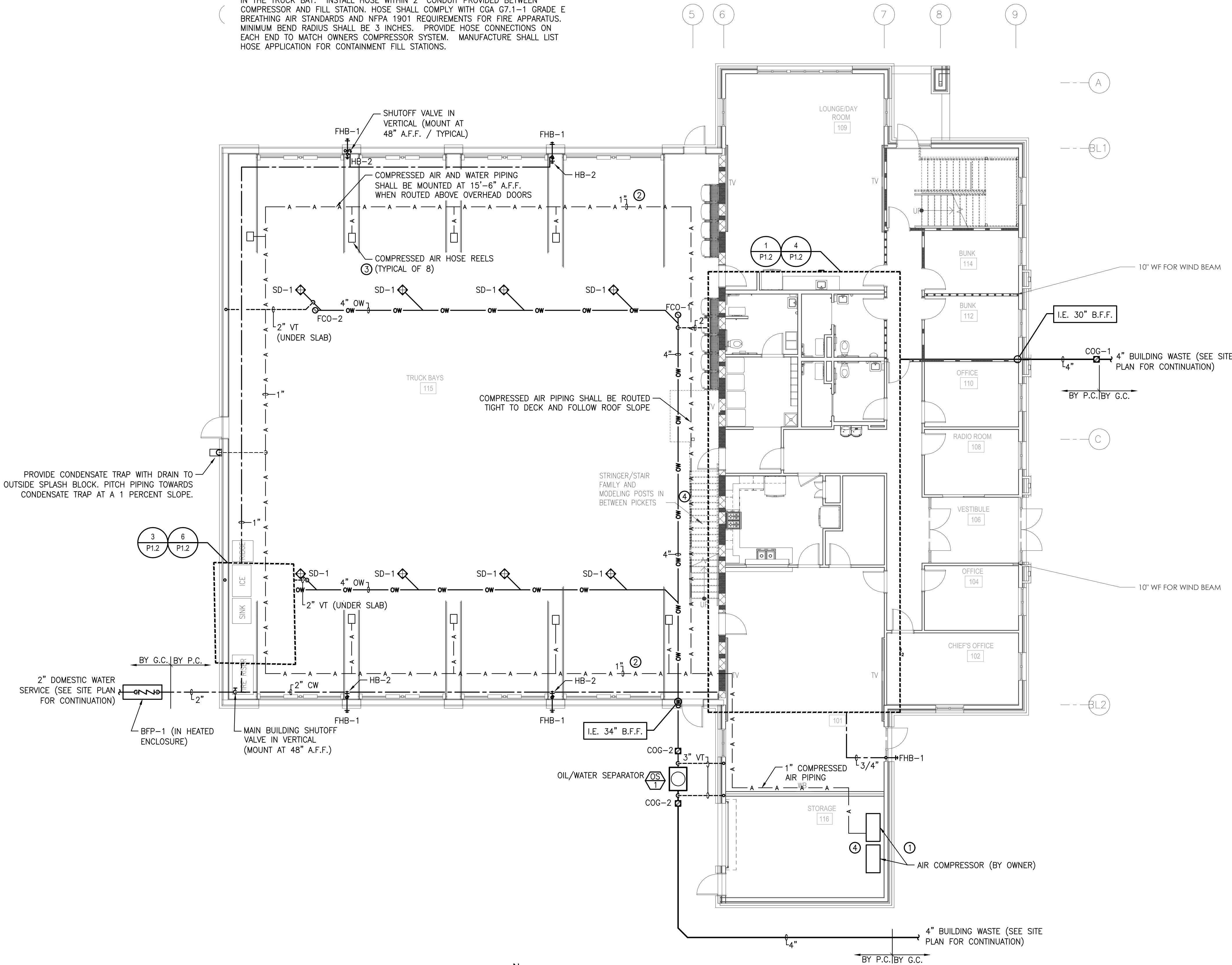
P1.01

INSTALLATION KEYED NOTES "P1":

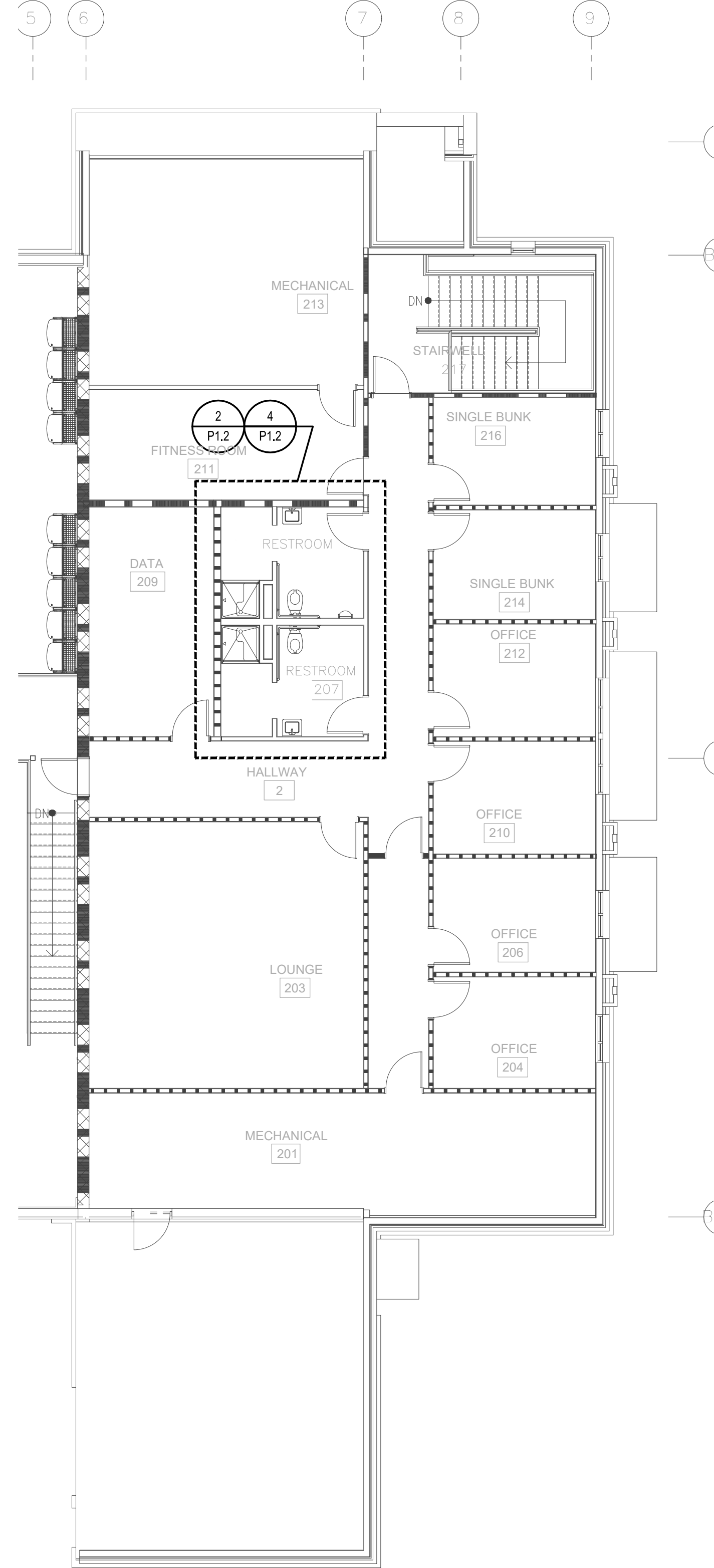
1. PROVIDE FLEXIBLE PIPE CONNECTION TO OWNER FURNISHED AIR COMPRESSOR. VERIFY SIZE.
2. PROVIDE 1 1/4" COMPRESSED AIR LOOP. PITCH PIPING TOWARDS CONDENSATE TRAPS AT 1 PERCENT DROP.
3. PROVIDE COMPRESSED AIR HOSE REEL EQUAL TO REELCRAFT MODEL 83050-0-P WITH 75 FEET OF 3/4" HOSE (250 PSI RATED). COORDINATE HOSE REEL MOUNTING WITH ELECTRICAL DEVICES. PROVIDE SLOTTED CHANNEL SUPPORTS FROM ROOF BEAMS.
4. PROVIDE A 1/4" HIGH PRESSURE (7,000PSI MAXIMUM OPERATING PRESSURE) HOSE FROM THE SCBA COMPRESSOR TO THE TANK CASCADE SYSTEM UNDER THE STAIRS IN THE TRUCK BAY. INSTALL HOSE WITHIN 2' CONDUIT PROVIDED BETWEEN COMPRESSOR AND FILL STATION. HOSE SHALL COMPLY WITH COA 67.1-1 GRADE E BREATHING AIR STANDARDS AND NFPA 1901 REQUIREMENTS FOR FIRE APPARATUS. MINIMUM BEND RADIUS SHALL BE 3 INCHES. PROVIDE HOSE CONNECTIONS ON EACH END TO MATCH OWNERS COMPRESSOR SYSTEM. MANUFACTURE SHALL LIST HOSE APPLICATION FOR CONTAINMENT FILL STATIONS.

GENERAL NOTE:

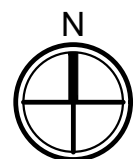
1. ENTIRE FLOOR/CEILING ASSEMBLY IS 1-HOUR FIRE RATED. REFERENCE ARCHITECTURAL DRAWINGS.



1 PLUMBING OVERALL PIPING PLAN - 1ST FLOOR
SCALE: 1/8" = 1'-0"



2 PLUMBING OVERALL PIPING PLAN - 2ND FLOOR
SCALE: 1/8" = 1'-0"





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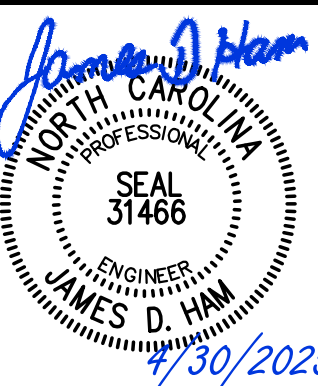
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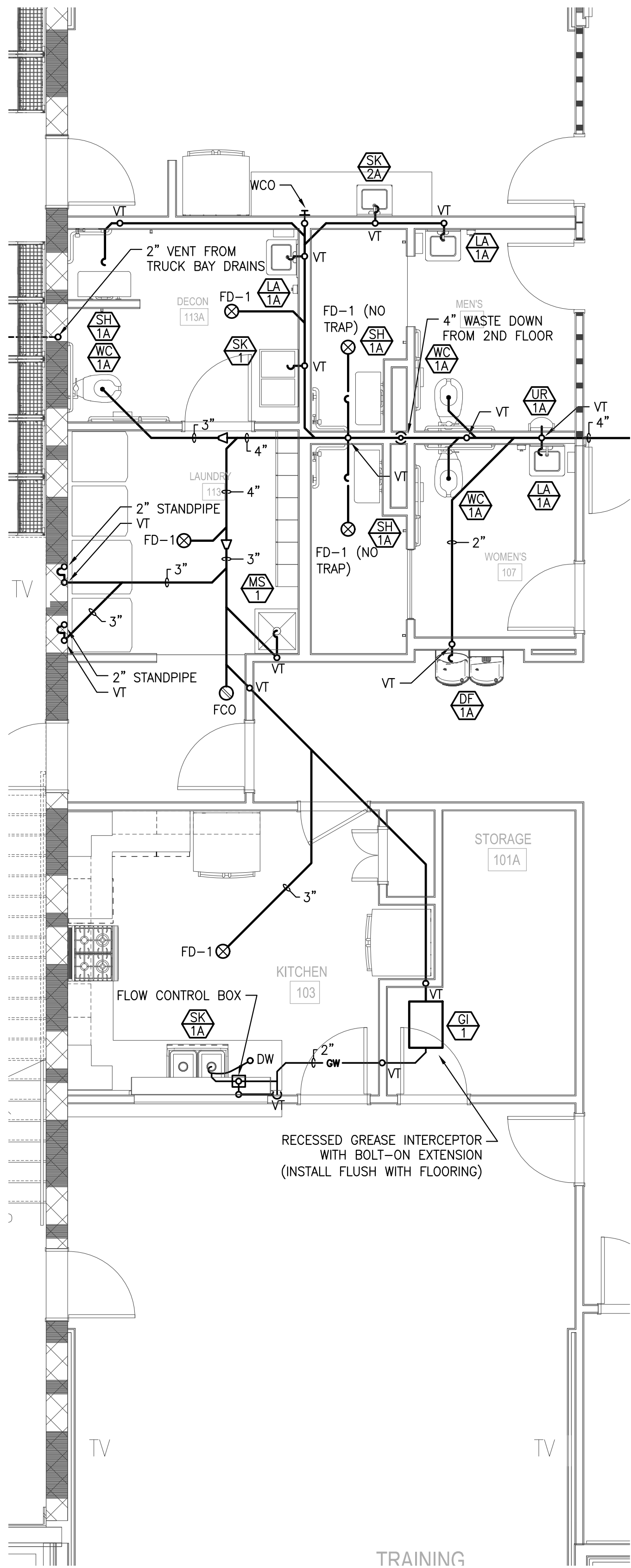
PLUMBING ENLARGED
PLANS

FIRE RATING LEGEND
===== 1 - HR FIRE BARRIER
===== 0.5 - HR FIRE PARTITION

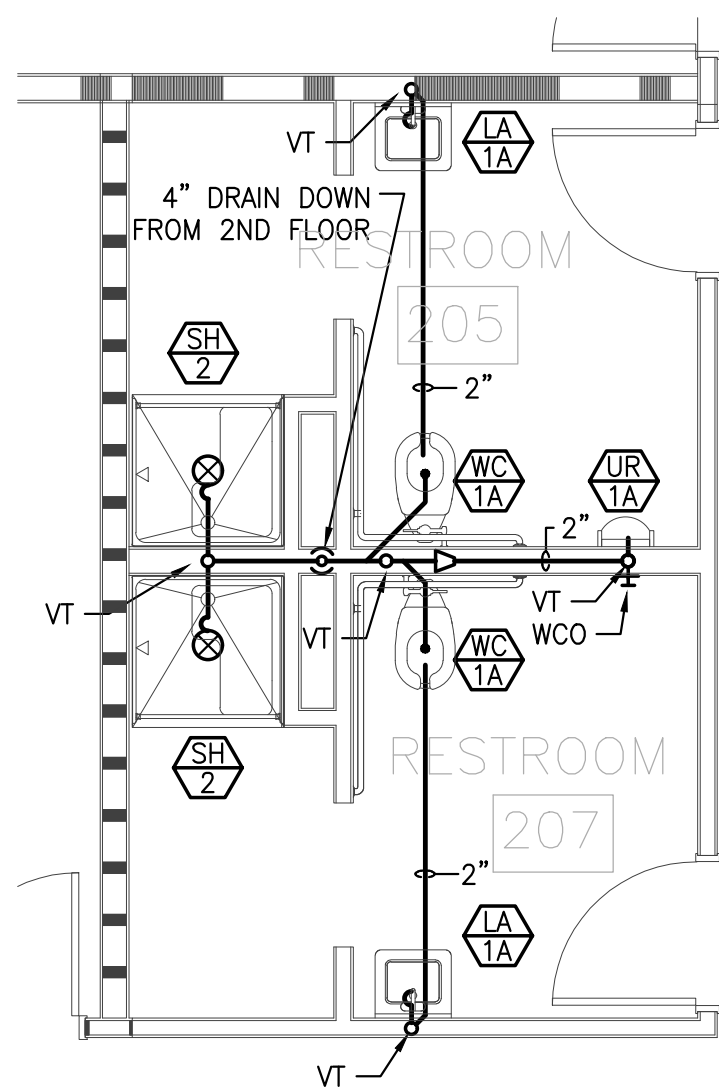
P1.02

GENERAL NOTES:

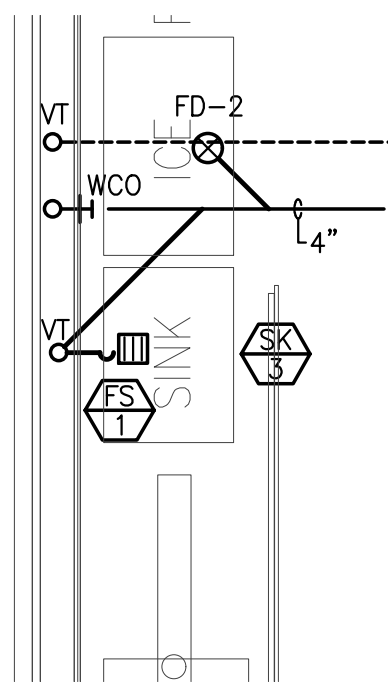
1. PIPING FROM 1ST FLOOR RESTROOM FIXTURES ARE INTENDED TO DIRECTLY FEED UP TO THE 2ND FLOOR FIXTURES.
2. PROVIDE CAPPED WATER STUB-UPS AND CAPPED DRAIN ROUGH-INS TO 2ND FLOOR UNDER BASE BID. VENTING THRU ROOF SHALL BE ROUTED WITHIN DATA ROOM WALL UP TO ROOF.
3. ENTIRE FLOOR/CEILING ASSEMBLY IS 1-HR FIRE RATED, REFERENCE ARCHITECT DRAWINGS.



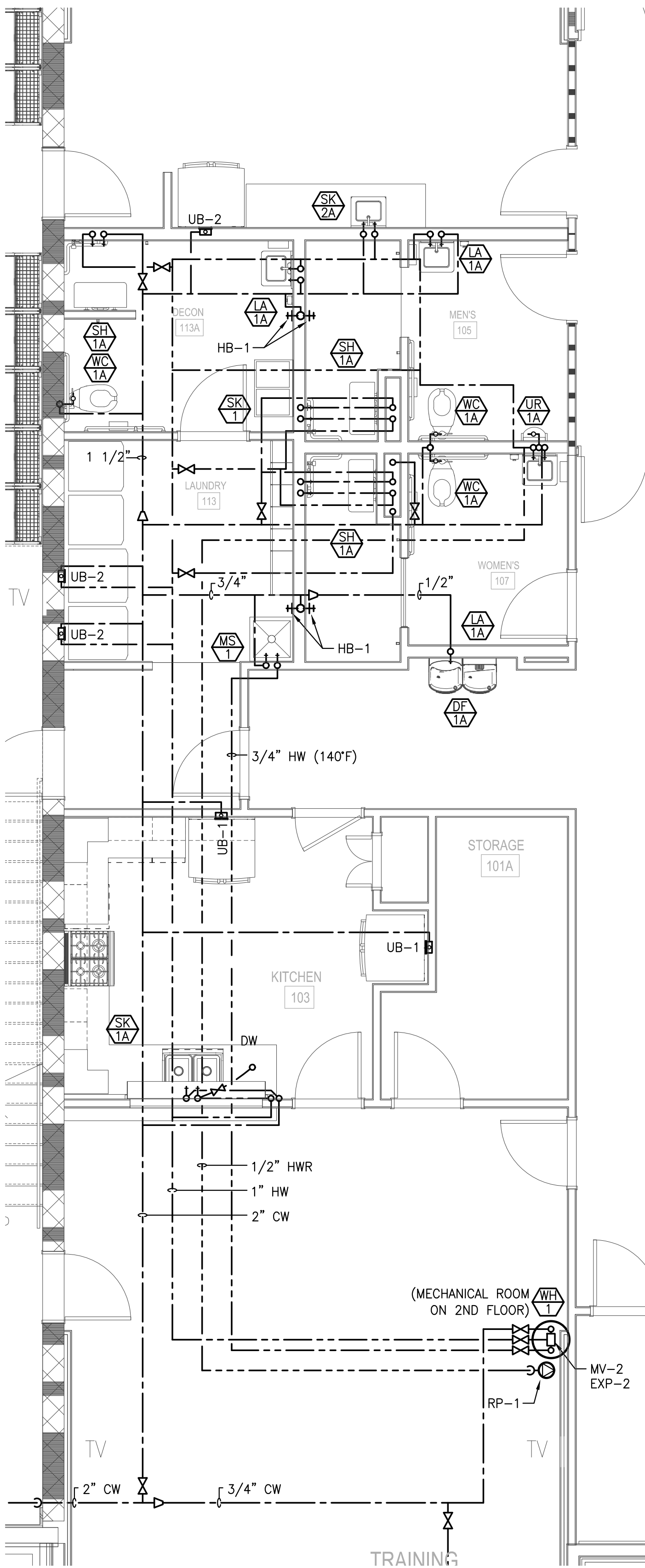
1 PLUMBING DWV PIPING ENLARGED PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"



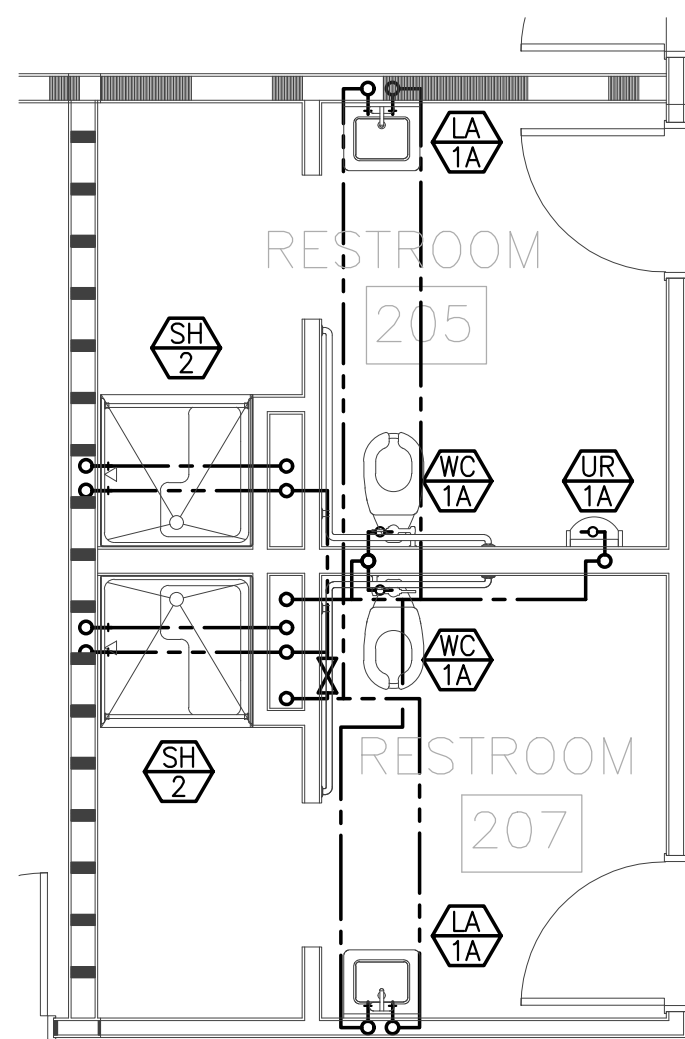
2 PLUMBING DWV PIPING ENLARGED PLAN - 2ND FLOOR (ALTERNATE)
SCALE: 1/4" = 1'-0"



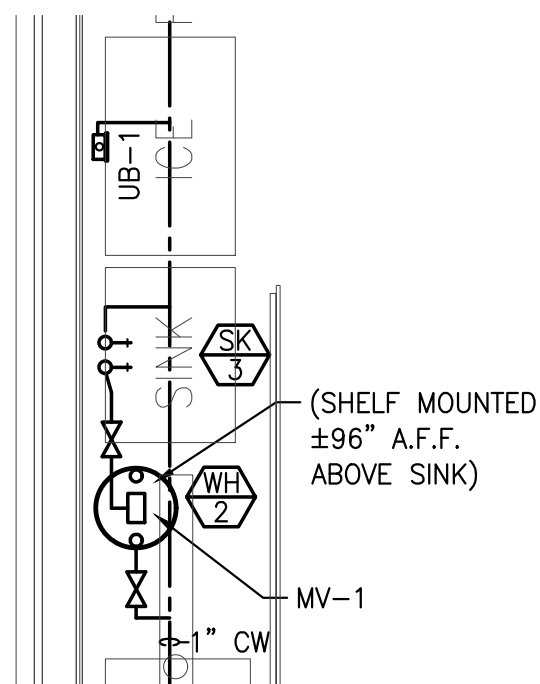
3 PLUMBING DWV PIPING ENLARGED PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"



4 PLUMBING WATER PIPING ENLARGED PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"



5 PLUMBING WATER PIPING ENLARGED PLAN - 2ND FLOOR (ALTERNATE)
SCALE: 1/4" = 1'-0"



6 PLUMBING WATER PIPING ENLARGED PLAN - 1ST FLOOR
SCALE: 1/4" = 1'-0"



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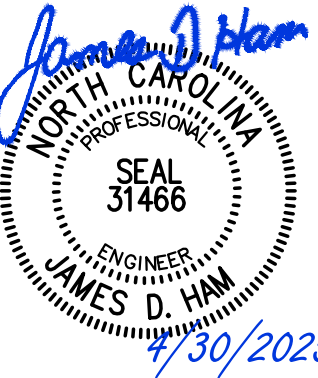
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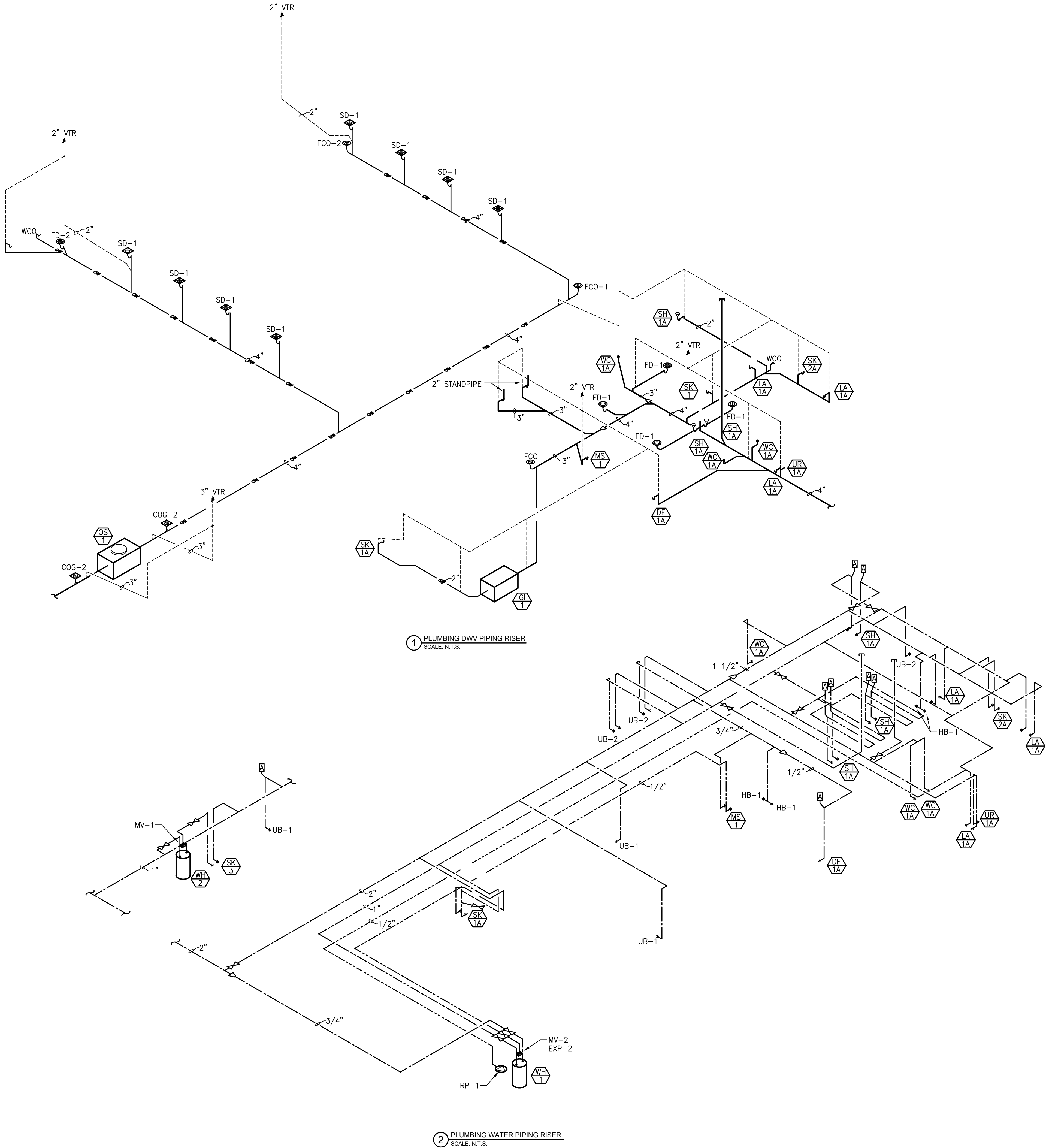
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PLUMBING RISERS

P2.01





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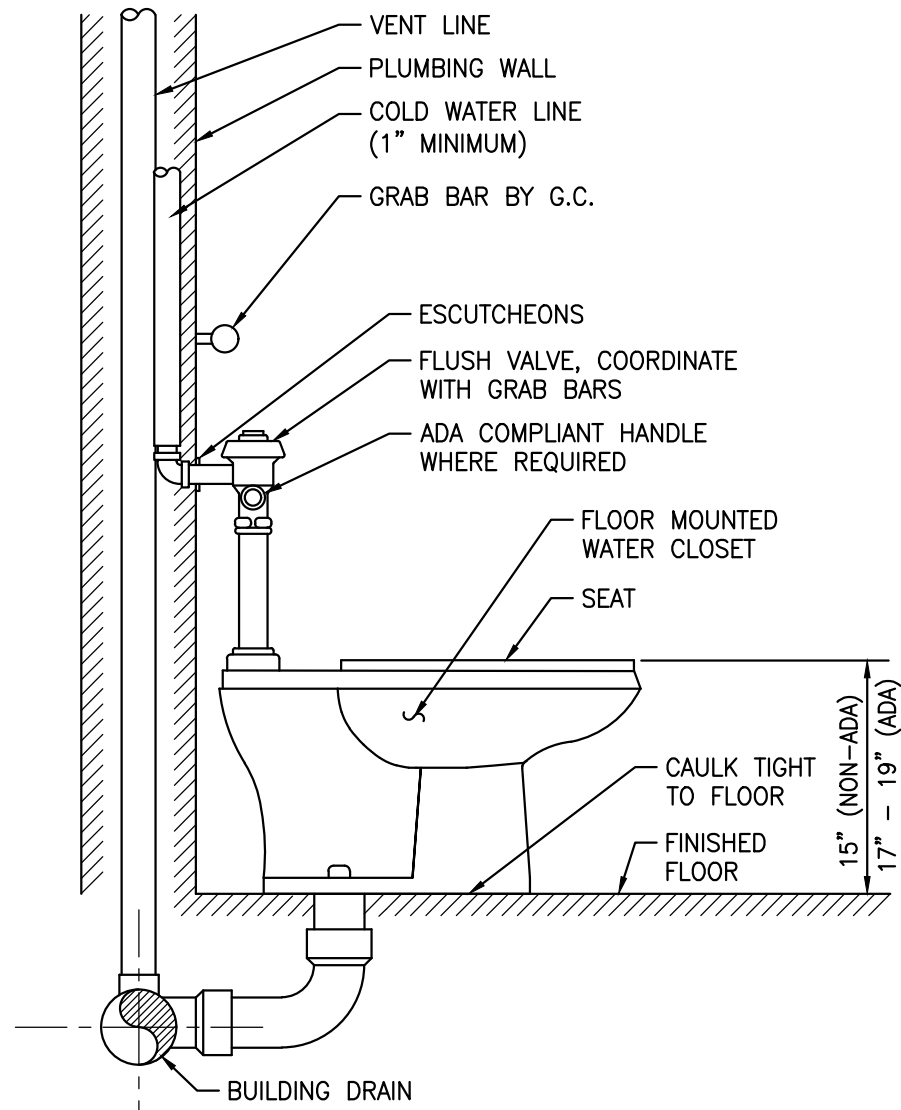
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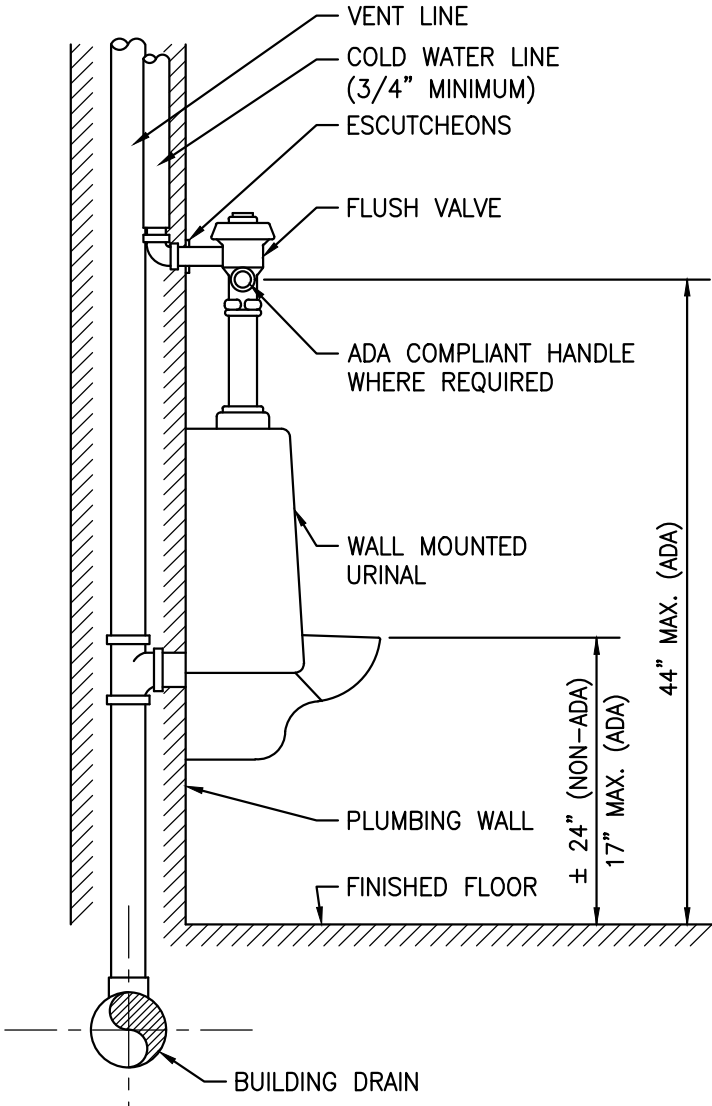
SHEET NAME & NUMBER

PLUMBING DETAILS

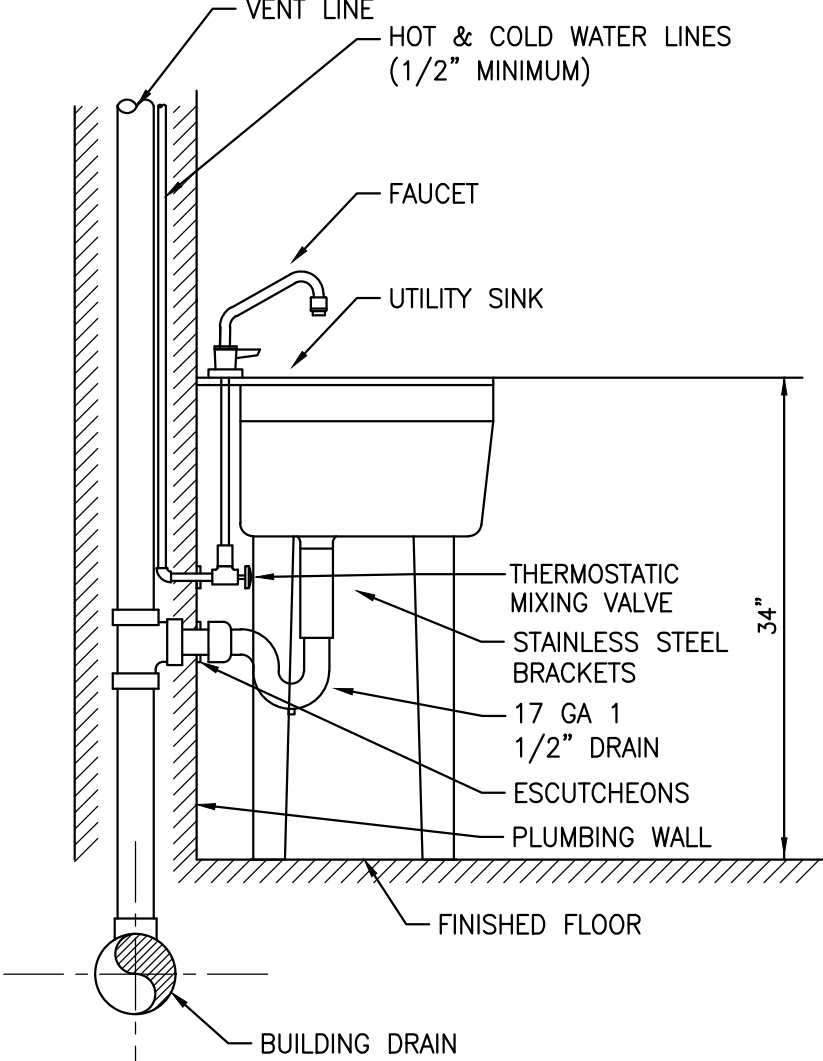
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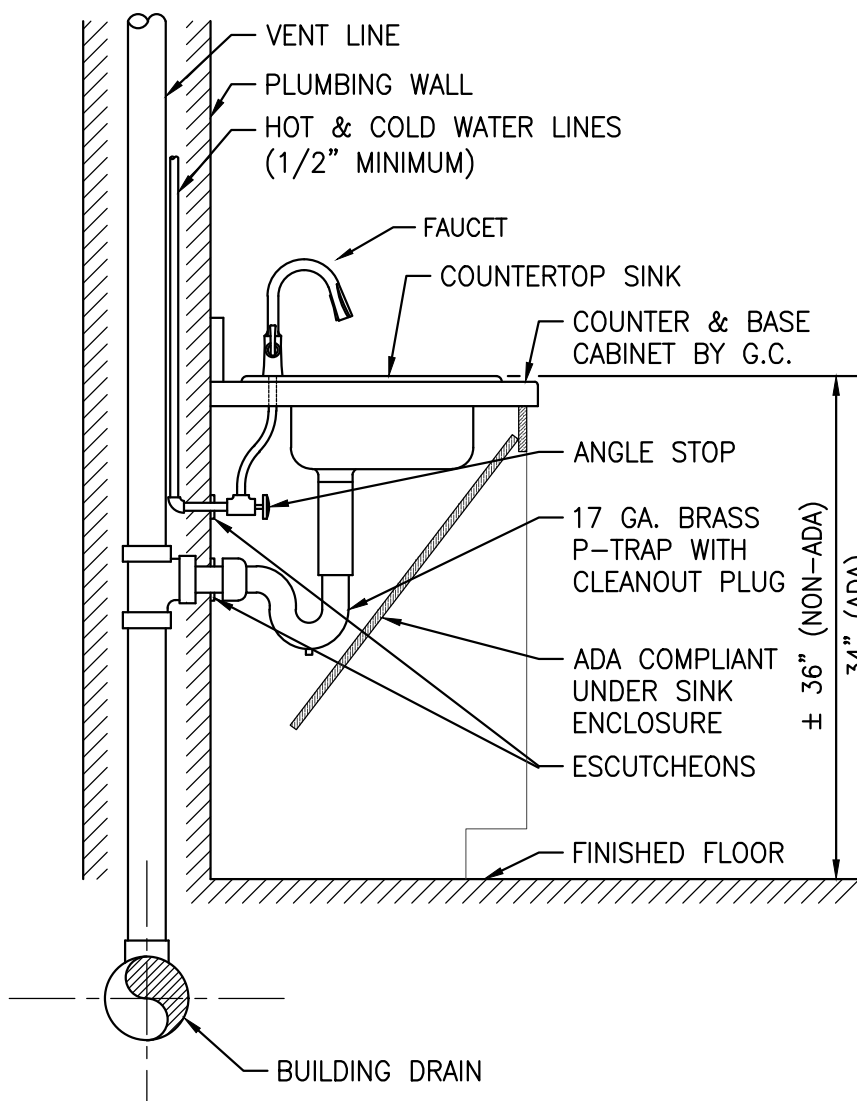
1 FLOOR MOUNTED WATER CLOSET WITH FLUSH VALVE DETAIL
SCALE: N.T.S.



2 WALL MOUNTED URINAL DETAIL
SCALE: N.T.S.

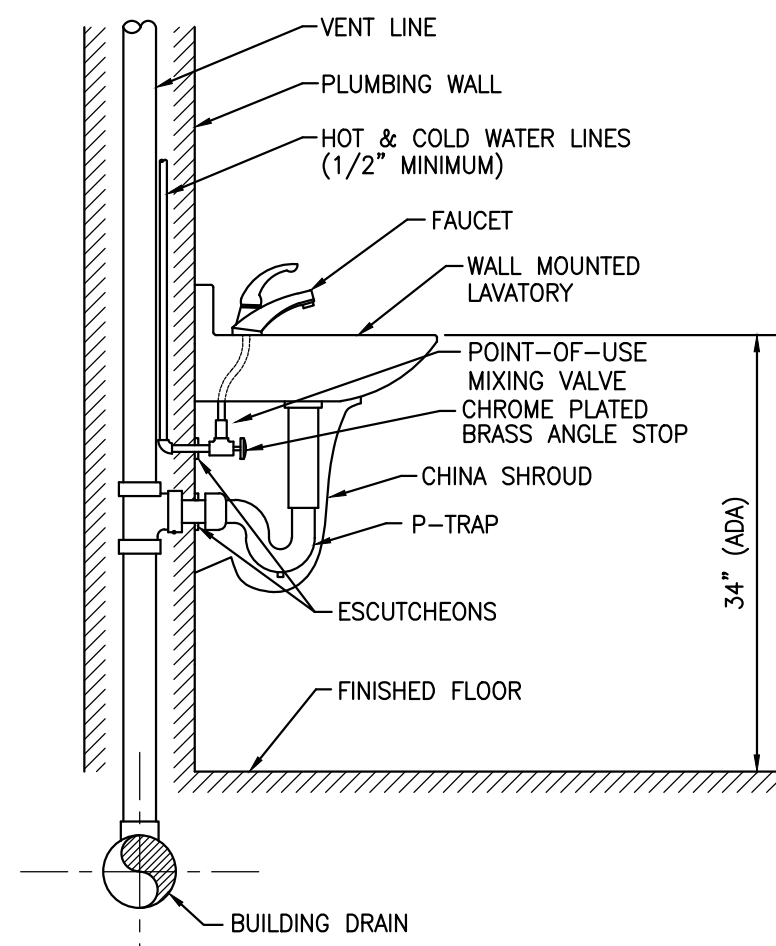


3 SERVICE SINK DETAIL
SCALE: N.T.S.



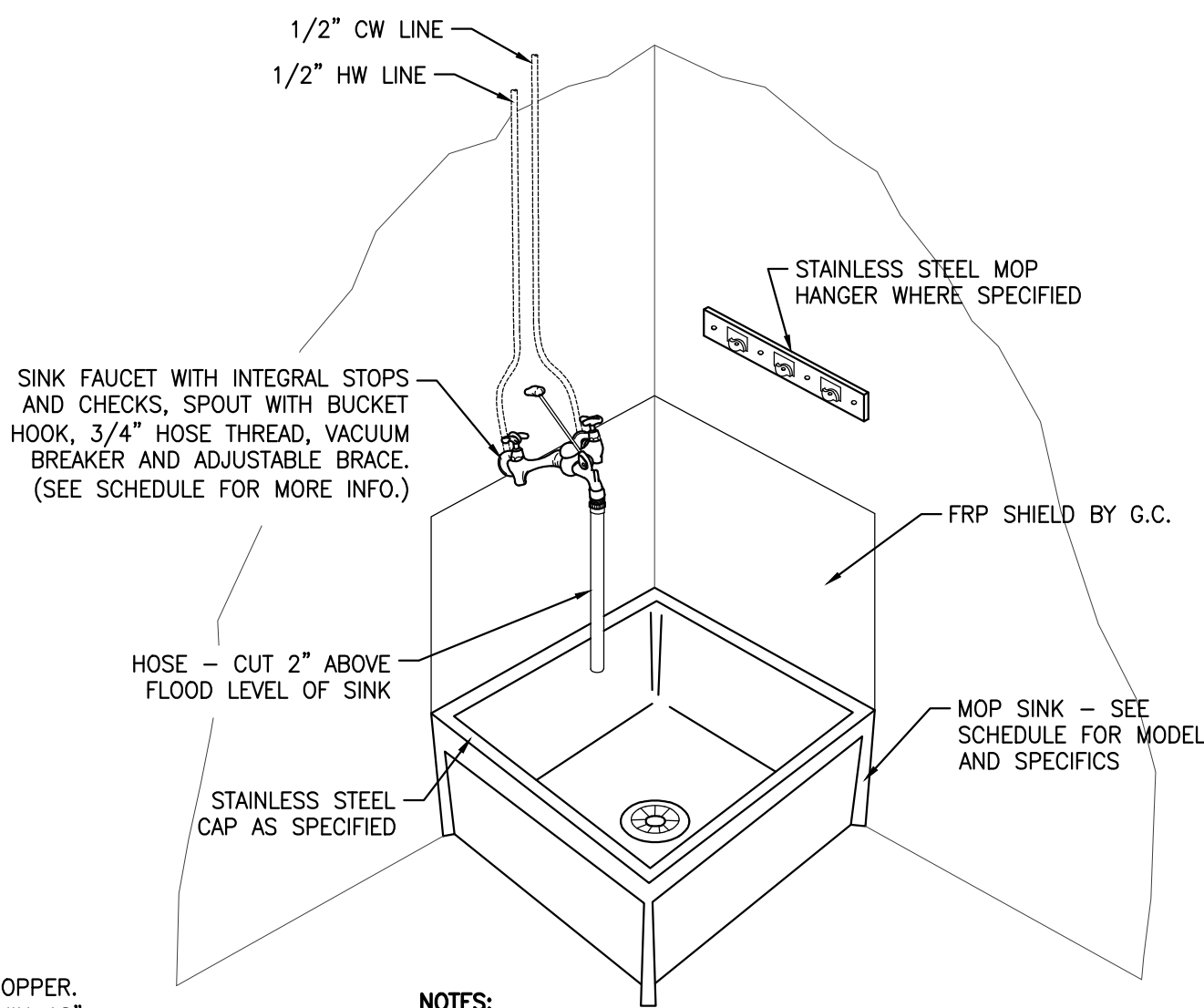
NOTES:
1. G.C. SHALL PROVIDE ADA COMPLIANT UNDERSPACE SINK PROTECTIVE ENCLOSURES FOR ALL ADA SINKS.
2. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER (CHROME PLATED WHERE EXPOSED TO VIEW).
3. HOT WATER RE-CIRCULATION PIPING SHALL BE ROUTED WITHIN 12\"/>

4 COUNTER SINK DETAIL
SCALE: N.T.S.



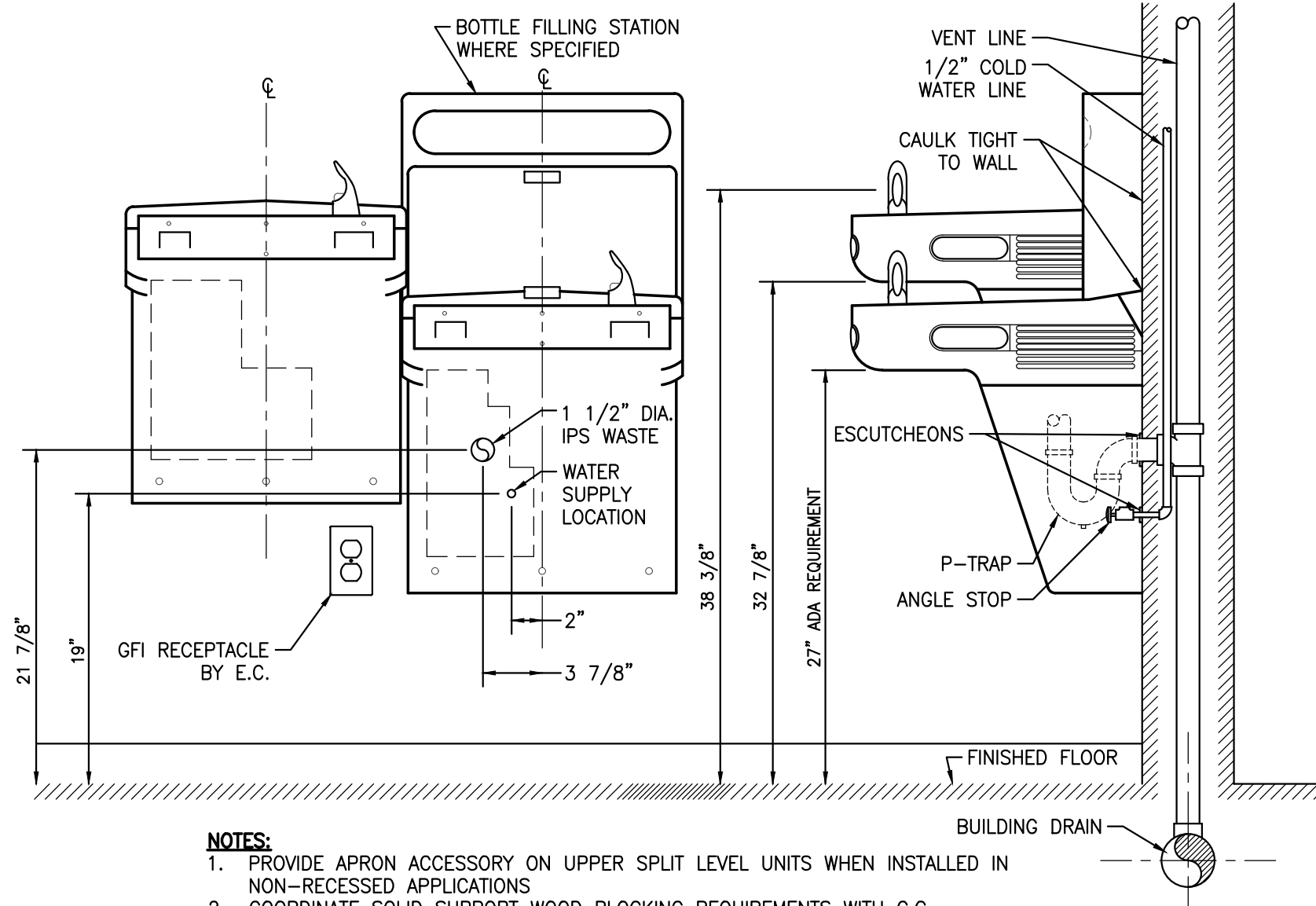
NOTES:
1. WATER SUPPLY INLETS AND RISERS SHALL BE BRASS OR COPPER.
2. HOT WATER RE-CIRCULATION PIPING SHALL BE ROUTED WITHIN 12\"/>

5 WALL MOUNTED LAVATORY WITH CHINA SHROUD DETAIL
SCALE: N.T.S.



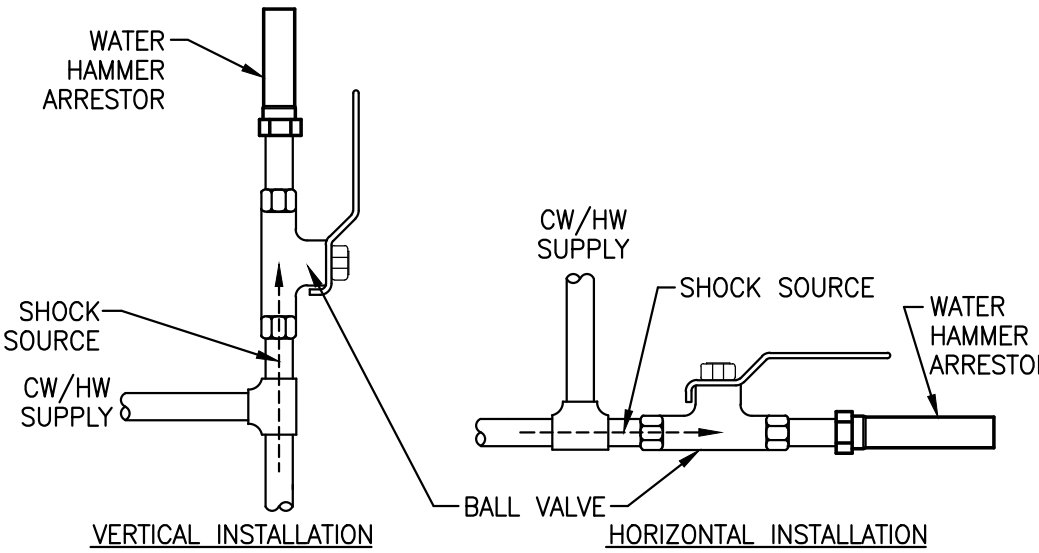
NOTES:
GROUT BOTTOM AND CAULK ALL EDGES FOR COMPLETE SEAL TO FLOOR AND WALLS.

6 FLOOR MOUNTED MOP SINK DETAIL
SCALE: N.T.S.



NOTES:
1. PROVIDE APRON ACCESSORY ON UPPER SPLIT LEVEL UNITS WHEN INSTALLED IN NON-RECESSED APPLICATIONS
2. COORDINATE SOLID SUPPORT WOOD BLOCKING REQUIREMENTS WITH G.C.
3. COORDINATE RECEPTACLE MOUNTING LOCATION WITH E.C. PER INSTALLATION INSTRUCTIONS.

7 WALL MOUNTED ELECTRIC WATER COOLER DETAIL
N.T.S.

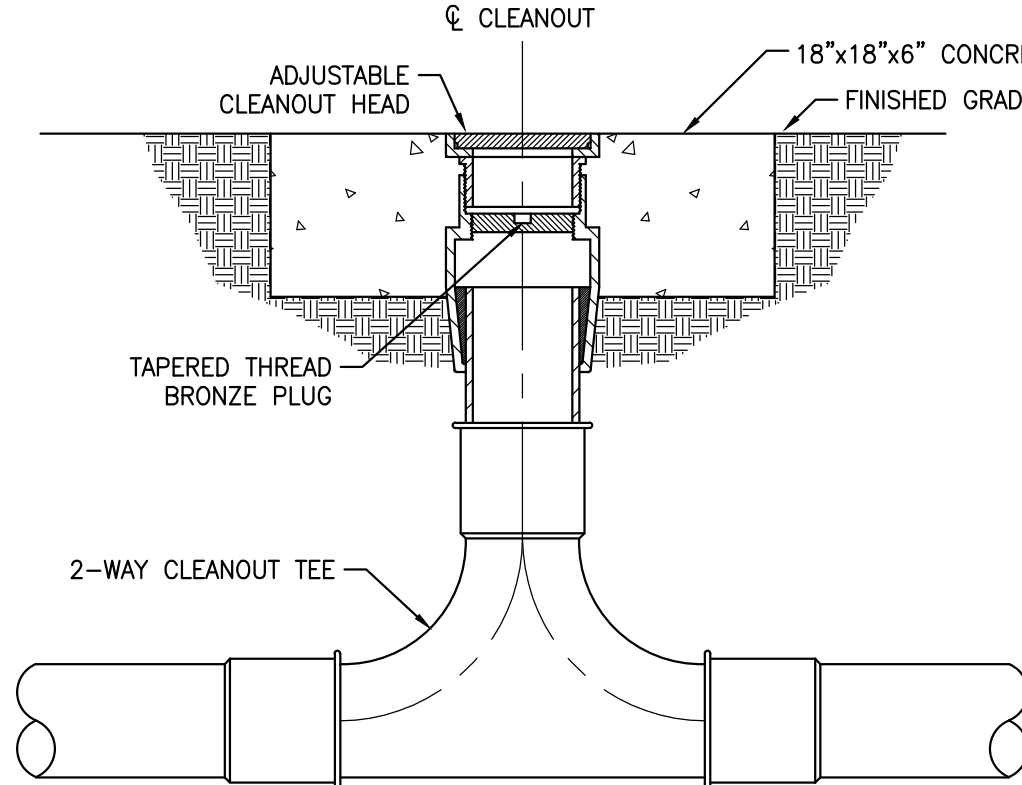


WATER HAMMER SIZING TABLE		
SIZE	FIXTURE UNITS	*PDI UNITS
1/2"	1-11	A
3/4"	12-32	B
1"	33-60	C
1 1/4"	61-113	D
1 1/2"	114-154	E
2"	155-330	F

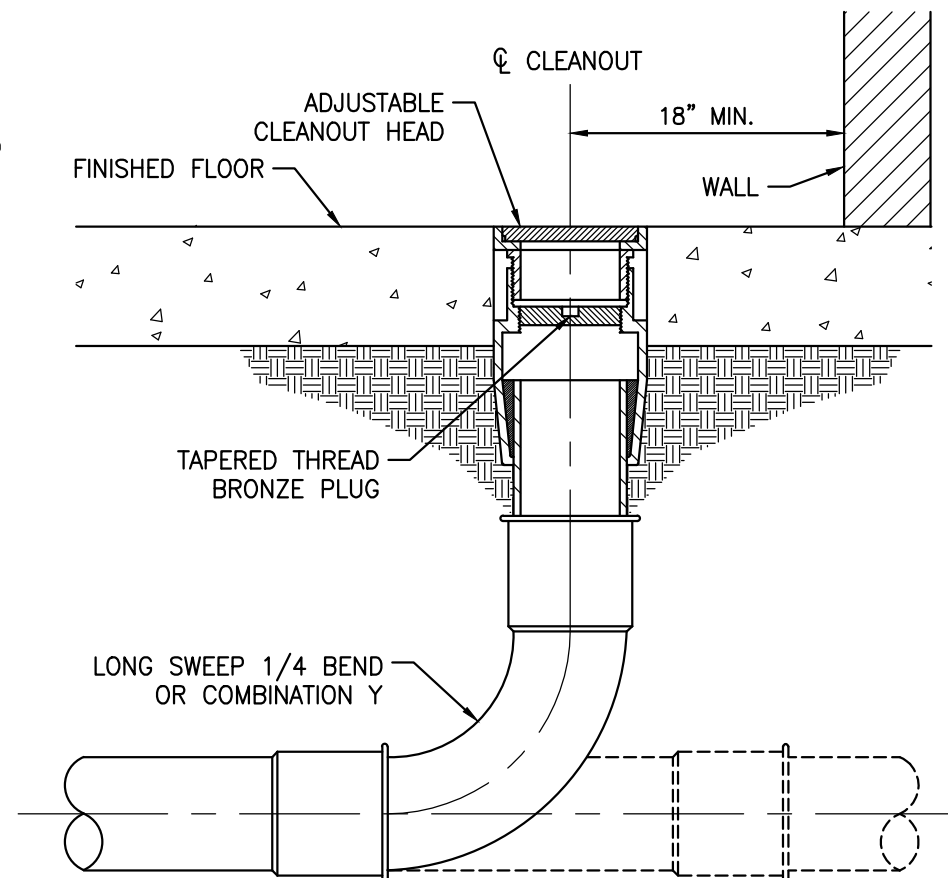
*PLUMBING & DRAINAGE INSTITUTE STANDARD PDI-WH201.

NOTES:
1. SEE PLANS FOR LOCATIONS OF WATER HAMMER ARRESTORS.
2. INSTALL ISOLATION VALVES FOR SERVICING.

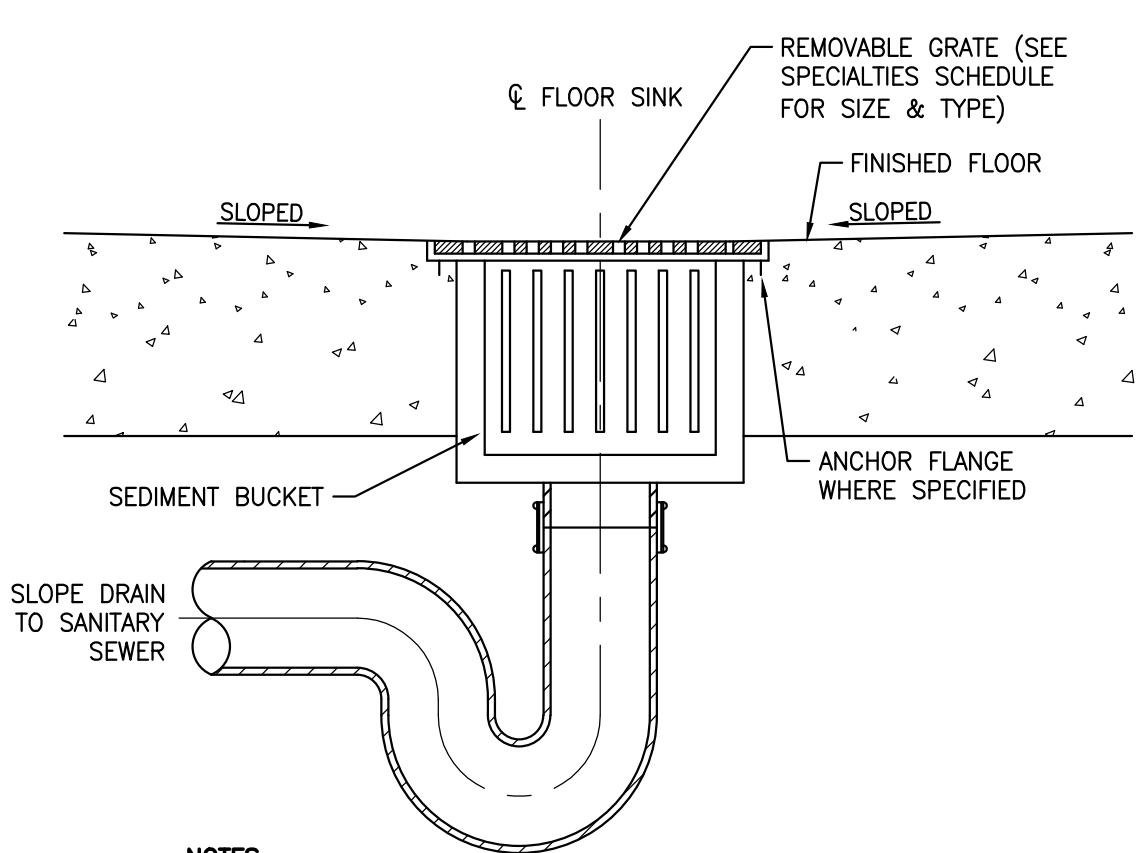
8 WATER HAMMER ARRESTOR WITH SHUTOFF VALVE DETAIL
SCALE: N.T.S.



9 CLEANOUT ON GRADE WITH 2-WAY TEE DETAIL
SCALE: N.T.S.

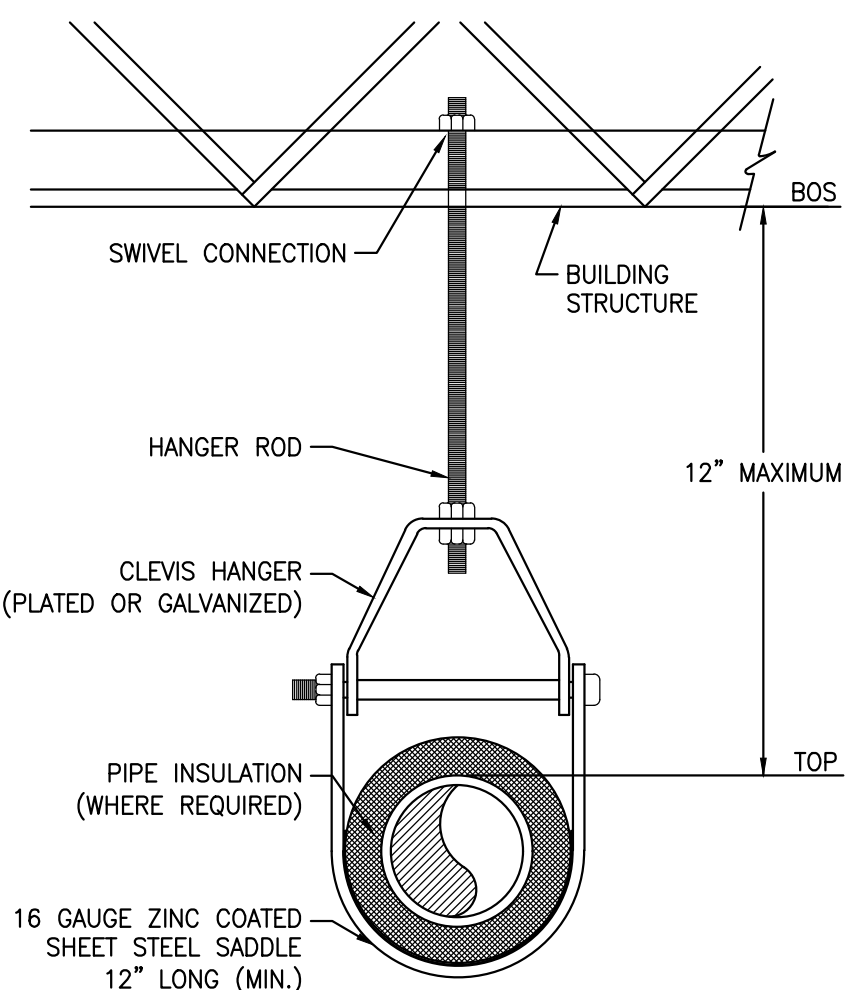


10 FLOOR CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.

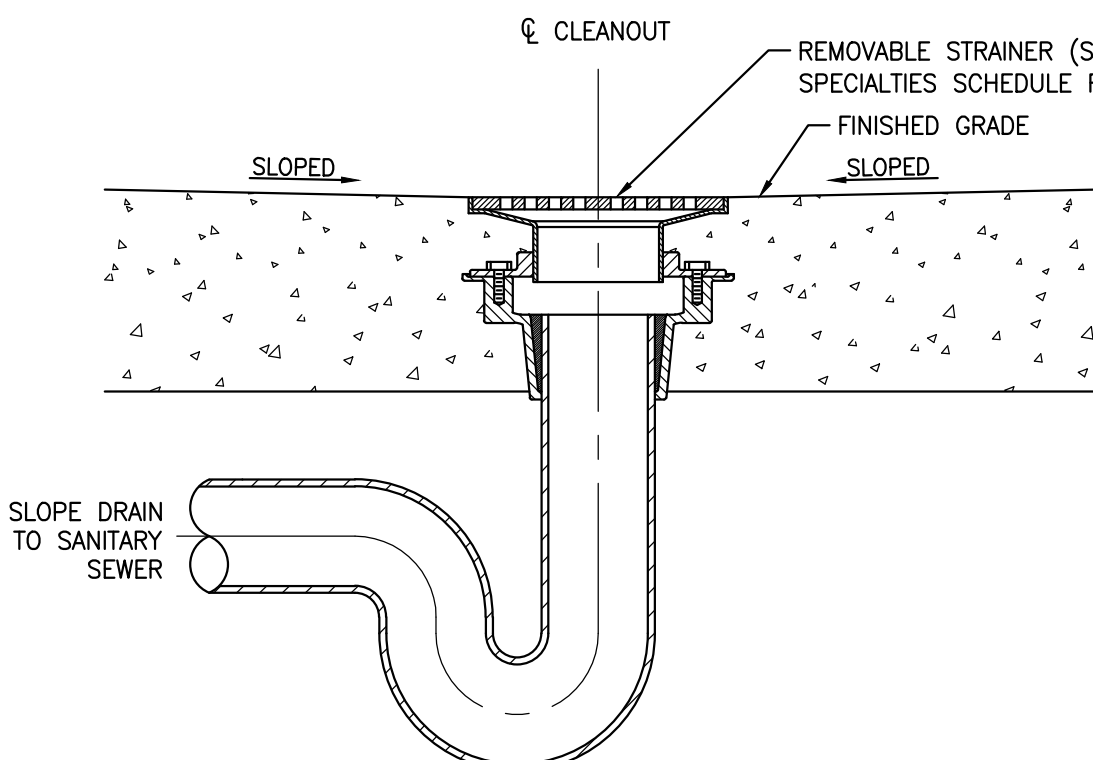


NOTES:
1. FINISHED FLOOR SHALL BE SLOPED TO DRAIN FLUSH WITH STRAINER WHERE REQUIRED, COORDINATE WITH G.C.

11 SHOP DRAIN WITH SEDIMENT BUCKET DETAIL
SCALE: N.T.S.

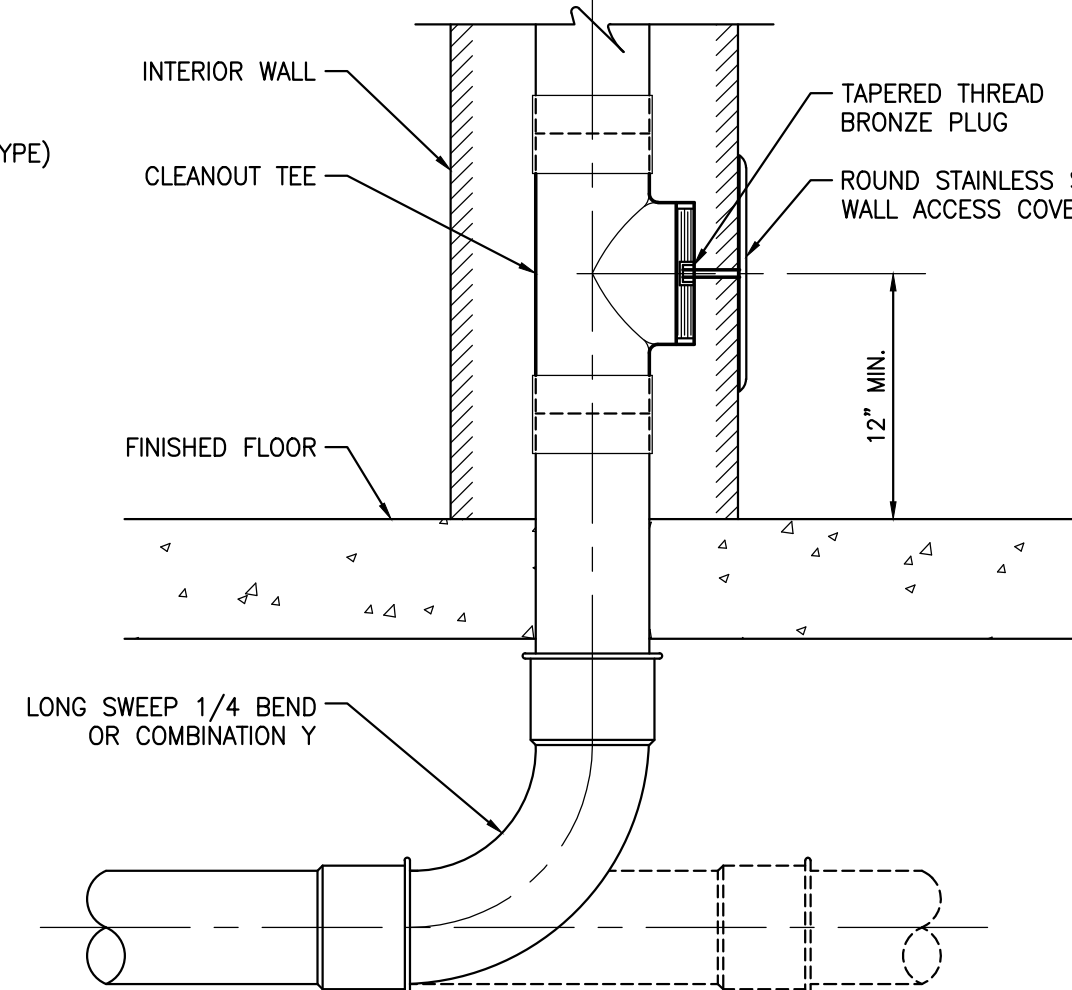


12 CLEVIS PIPE HANGER DETAIL
SCALE: N.T.S.

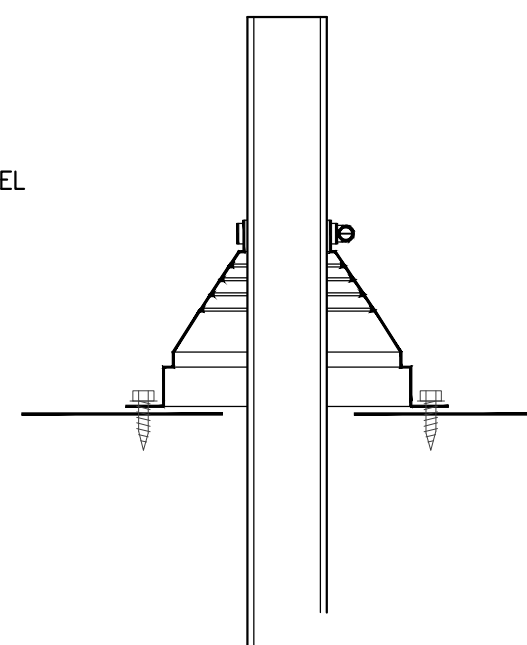


NOTES:
1. FINISHED FLOOR SHALL BE SLOPED TO DRAIN FLUSH WITH STRAINER WHERE REQUIRED, COORDINATE WITH G.C.

13 FLOOR DRAIN DETAIL
SCALE: N.T.S.



14 WALL CLEANOUT WITH SWEEP BEND OR COMBINATION Y DETAIL
SCALE: N.T.S.



15 STANDARD ROOF PENETRATION INSTALLATION DETAIL
SCALE: N.T.S.

OPENINGS 10" OR LESS TO HAVE HIGH TEMP, CORROSION RESISTANT, SILICONE BASED FLASHING (AKA: DECK-TITE) FURNISHED AND INSTALLED BY THE PC, EC, OR MC TRADE REQUIRING THE OPENING. TRADE CONTRACTOR IS TO CUT OPENING IN THE BOOT SMALLER THAN THE ACTUAL PIPE, HOSE, OR CONDUIT AND INSTALL 1/2" TO 3/4" ADJUSTABLE STAINLESS STEEL BAND AT TOP OF BOOT TO PROVIDE SECURE FIT. PC, EC, OR MC TO BED THE DECK-TITE USING ELASTOMERIC POLYURETHANE SEALANT (SUCH AS TREMCO-VULKEM 116). FASTEN DECK-TITE TO METAL ROOF WITH #14 X 7/8" MINI POINT STAINLESS STEEL SELF DRILLING SCREWS W/ HEX HEADS AND METAL BACKED RUBBER WASHERS (SCREWS POSITIONED APPROX. 1-1/2" ON CENTER AROUND PERIMETER OF DECK-TITE). TRADE REQUIRING OPENING IS RESPONSIBLE FOR COORDINATION OF LOCATION WITH BOBBITT.

PROJECTS WITH COLORED ARCHITECTURAL ROOF PANELS REQUIRE SPECIALTY COLORED DECK-TITES. WHEN THIS OCCURS, THE DECK-TITES SHOULD BE COLORED EPDM AS FROM:
HTTP://WWW.BESTMATERIALS.COM/SEARCHRESULT.ASPX?CATEGORYID=1177

PROJECTS WITH STANDARD GALVALUME ROOFS REQUIRE DECK-TITES AS FROM: IS HTTP://WWW.BESTMATERIALS.COM/SILICONE-PIPE-FLASHING-BOOT-684.HTML

TRADE CONTRACTOR IS TO VERIFY SELECTION OF COLORED DECK-TITES WITH GC BEFORE PURCHASE.

OPENINGS LARGER THAN 10" REQUIRE A ROOF CURB PROVIDED AND INSTALLED BY BOBBITT. PC, MC, OR EC TO MAKE WEATHER TIGHT ONCE CURB HAS BEEN INSTALLED. TRADE REQUIRING CURB IS RESPONSIBLE FOR COORDINATION OF LOCATION WITH BOBBITT.



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MAYSVILLE FIRE STATION

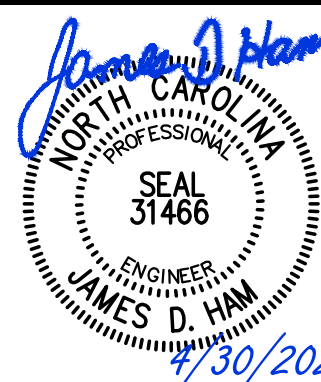
603 4TH STREET

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P.O. BOX 11527 NC LIC #: C-1132
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PROJECT NO. 224010 PROJECT MGR. DRAWN BY
D. HAM D. HILL



REVISIONS:
| DESC: | DATE |

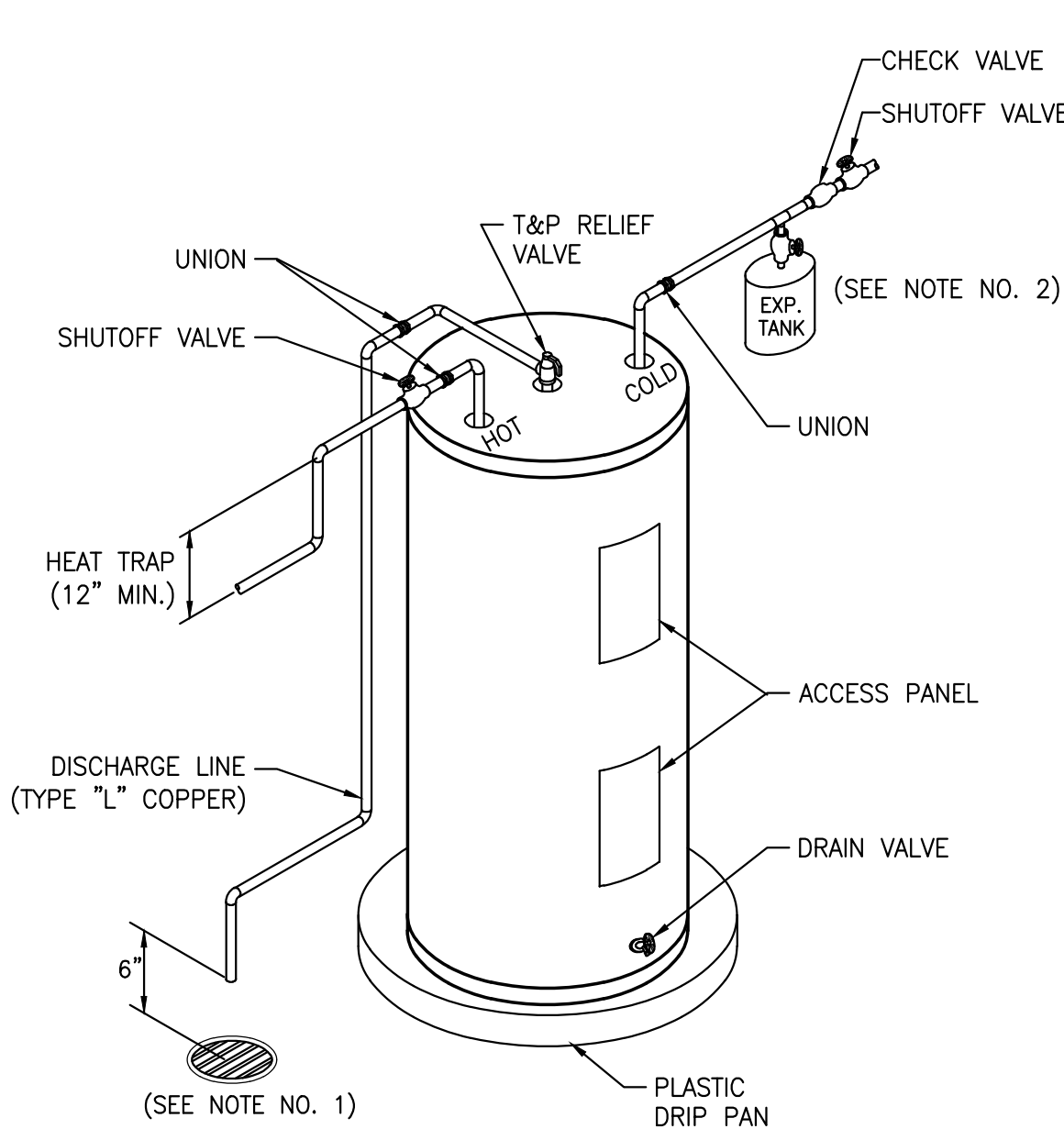
DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

PLUMBING DETAILS

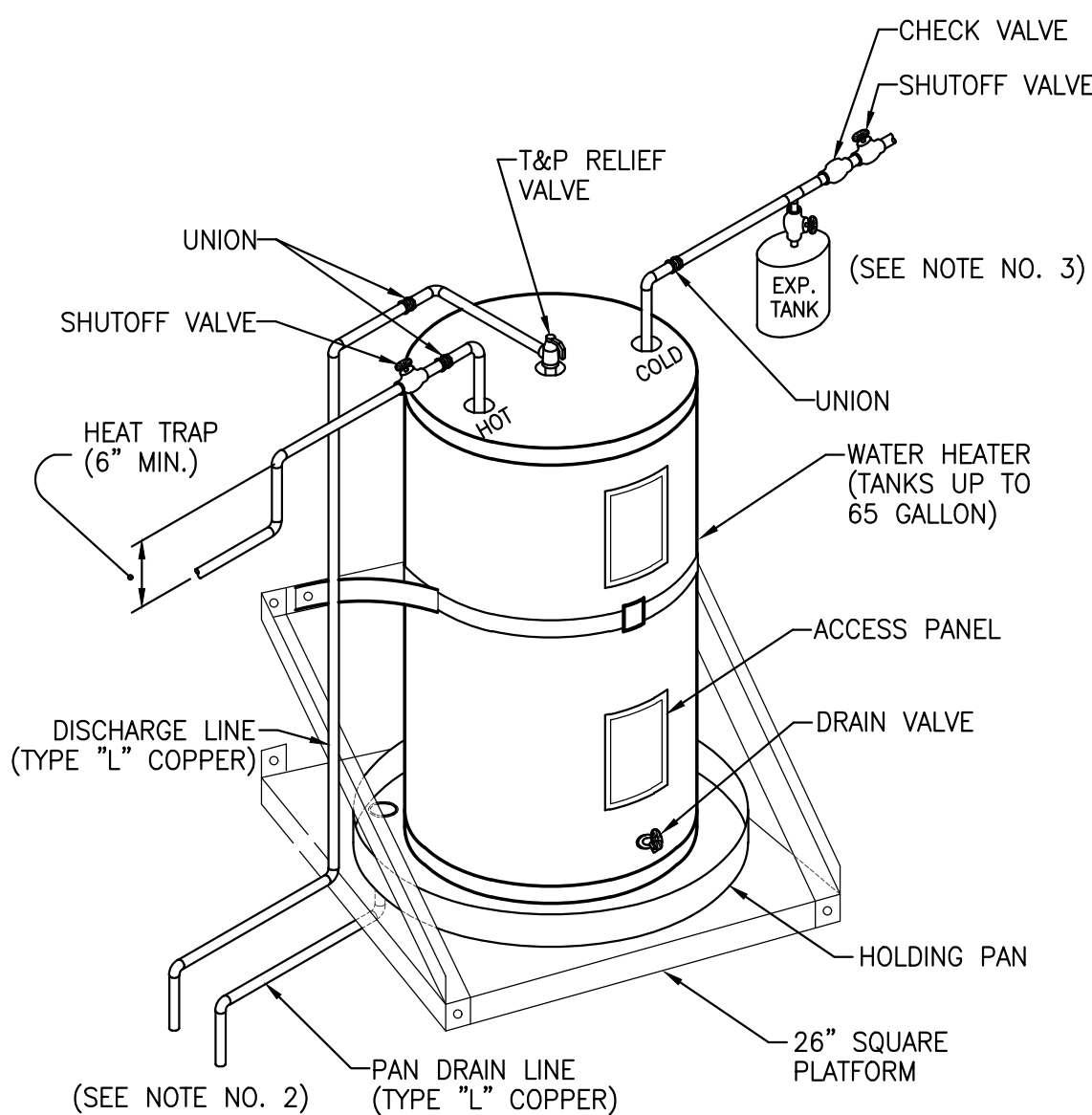
P3.02



NOTES:

1. DISCHARGE LINE FROM RELIEF VALVE SHALL BE PIPED FULL-SIZE TO FLOOR DRAIN/MOP SINK - TERMINATE 6 INCHES ABOVE GRADE/DRAIN.
2. DISCHARGE LINE SHALL BE CLAMPED OR OTHERWISE SUPPORTED IN ACCORDANCE WITH NPCC TABLE 308.5 OR SUPPORT WITHIN 12 INCHES OF DISCHARGE.
3. PROVIDE PRE-CHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE 2 GALLON CAPACITY U.N.O. AND APPROVED FOR POTABLE WATER SYSTEMS.

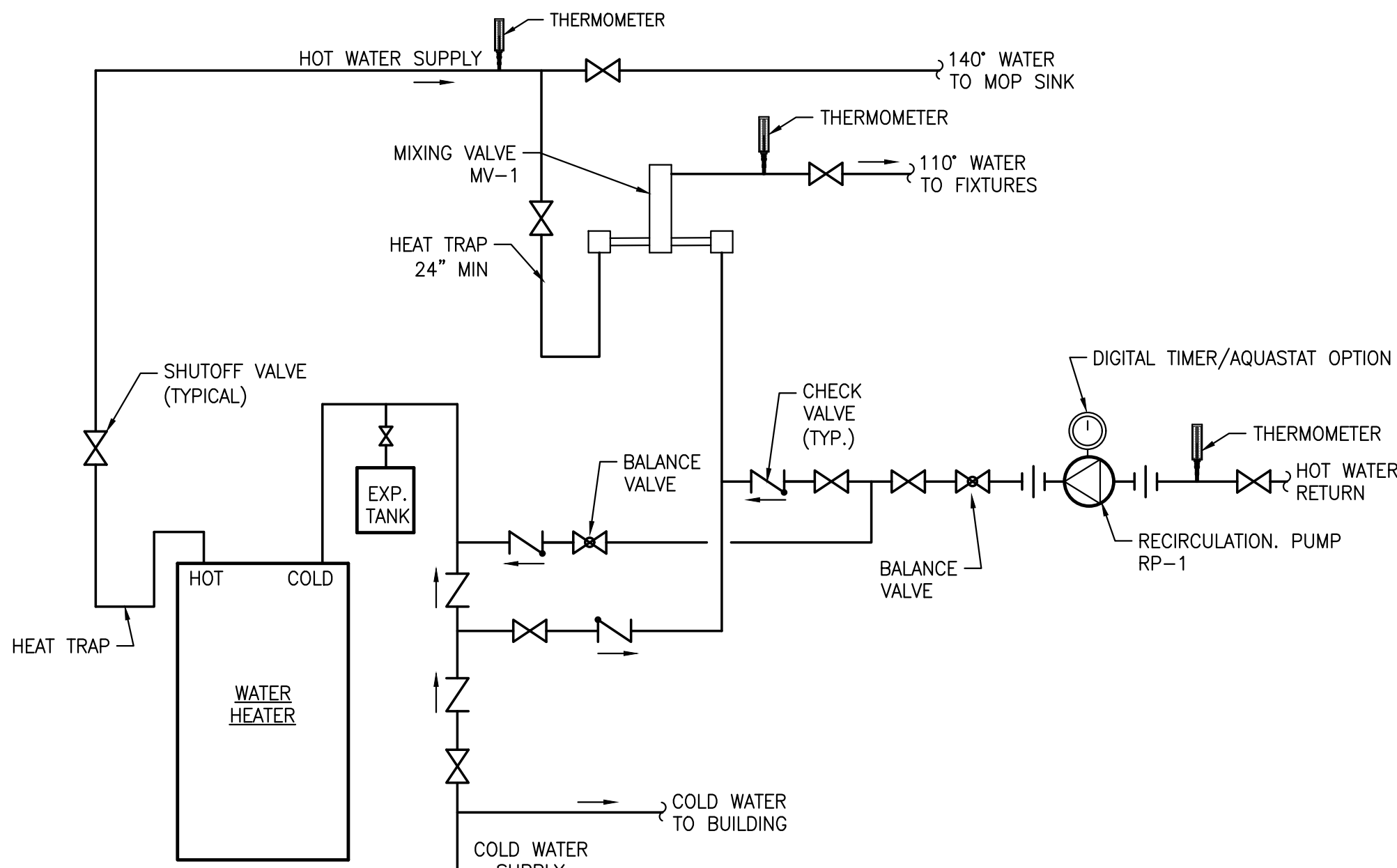
1 FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.



NOTES:

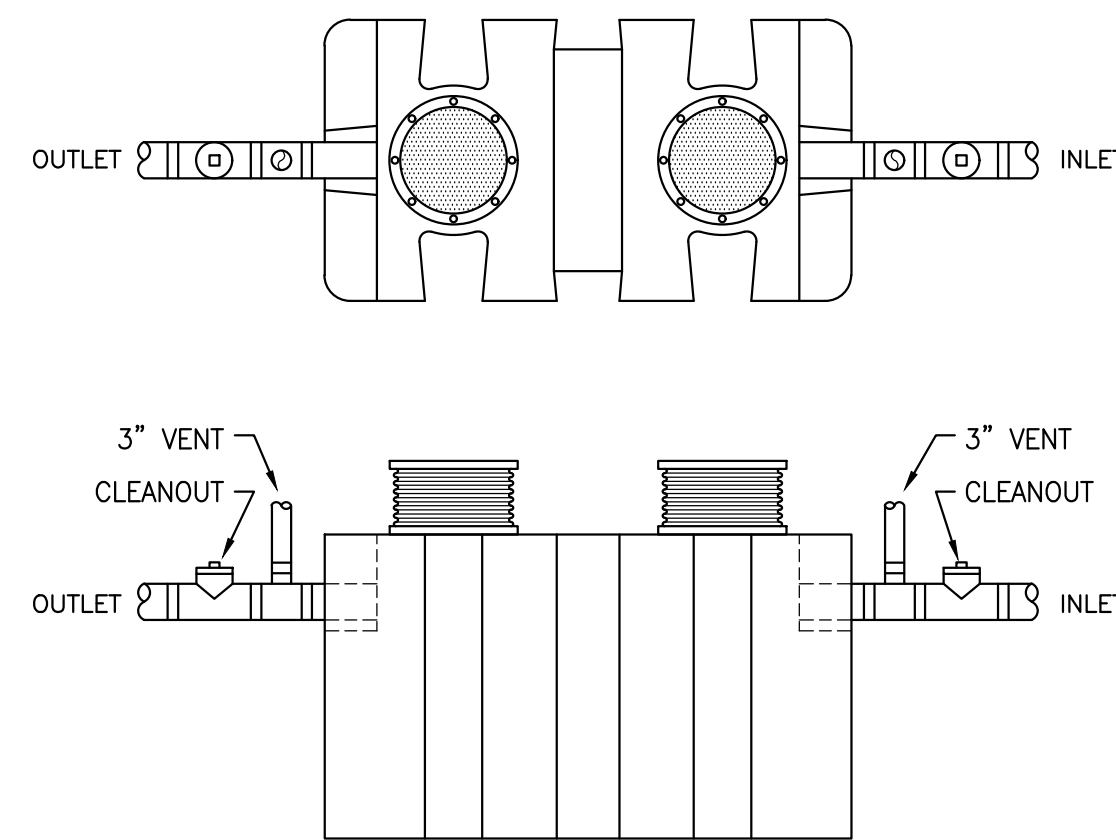
1. PAN SHALL BE CONSTRUCTED OF A MIN. OF 24 GA. GALV. METAL OR 1/16 INCH HIGH IMPACT PLASTIC AND SUFFICIENT SIZE & SHAPE TO RECEIVE ALL DRIPPINGS.
2. DISCHARGE LINE SHALL BE CLAMPED OR OTHERWISE SUPPORTED IN ACCORDANCE WITH NPCC TABLE 308.5 OR SUPPORT WITHIN 12 INCHES OF DISCHARGE.
3. DISCHARGE & PAN DRAIN SHALL BE FULL-SIZE OF RELIEF VALVE BUT NOT LESS THAN 1 INCH, TERMINATING OVER A SUITABLY LOCATED DRAIN OR EXTERIOR OF BUILDING 6 INCHES ABOVE DRAIN/GRADE.
4. PROVIDE PRE-CHARGED DIAPHRAGM EXPANSION TANK ON SYSTEMS HAVING CHECK VALVES OR BACKFLOW PREVENTERS ON SUPPLY WATER LINE. TANK SHALL BE 2 GALLON CAPACITY U.N.O. IN SPECIALTIES SCHEDULE AND APPROVED FOR POTABLE WATER SYSTEMS.
5. WATER HEATER WALL MOUNT RESTRAINT SYSTEM SHALL BE EQUAL TO WATTS SPACEMAKER MODEL WM-26.

2 SHELF MOUNTED ELECTRIC WATER HEATER DETAIL
SCALE: N.T.S.



NOTE: SETUP RECIRCULATION SYSTEM PER MIXING VALVE'S INSTALLATION INSTRUCTION.

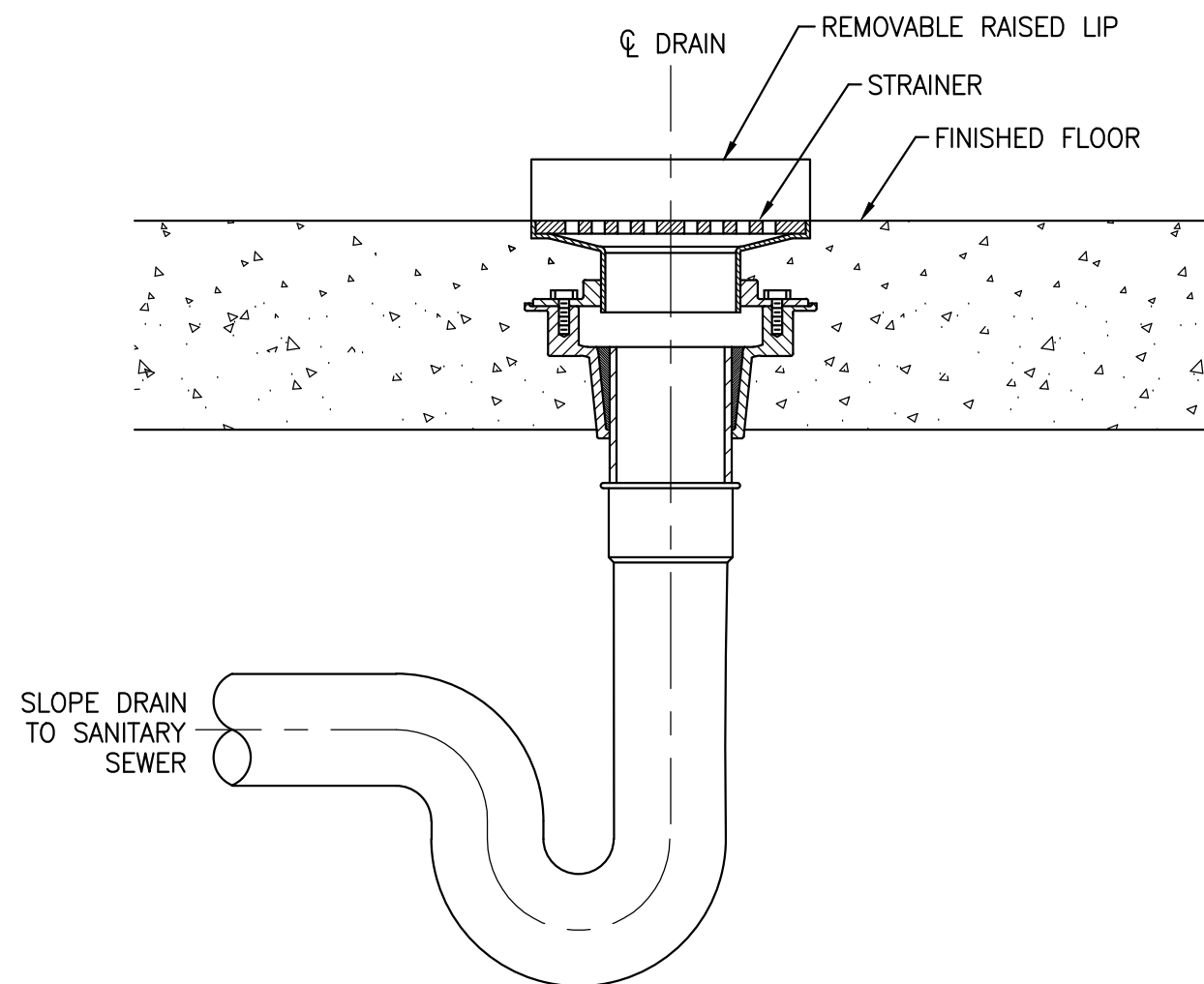
3 HOT WATER RECIRCULATION SCHEMATIC
SCALE: N.T.S.



NOTE:

1. MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT OIL AND GREASE PROGRAM. (CODE REF.: NPCC SECTION 1003)

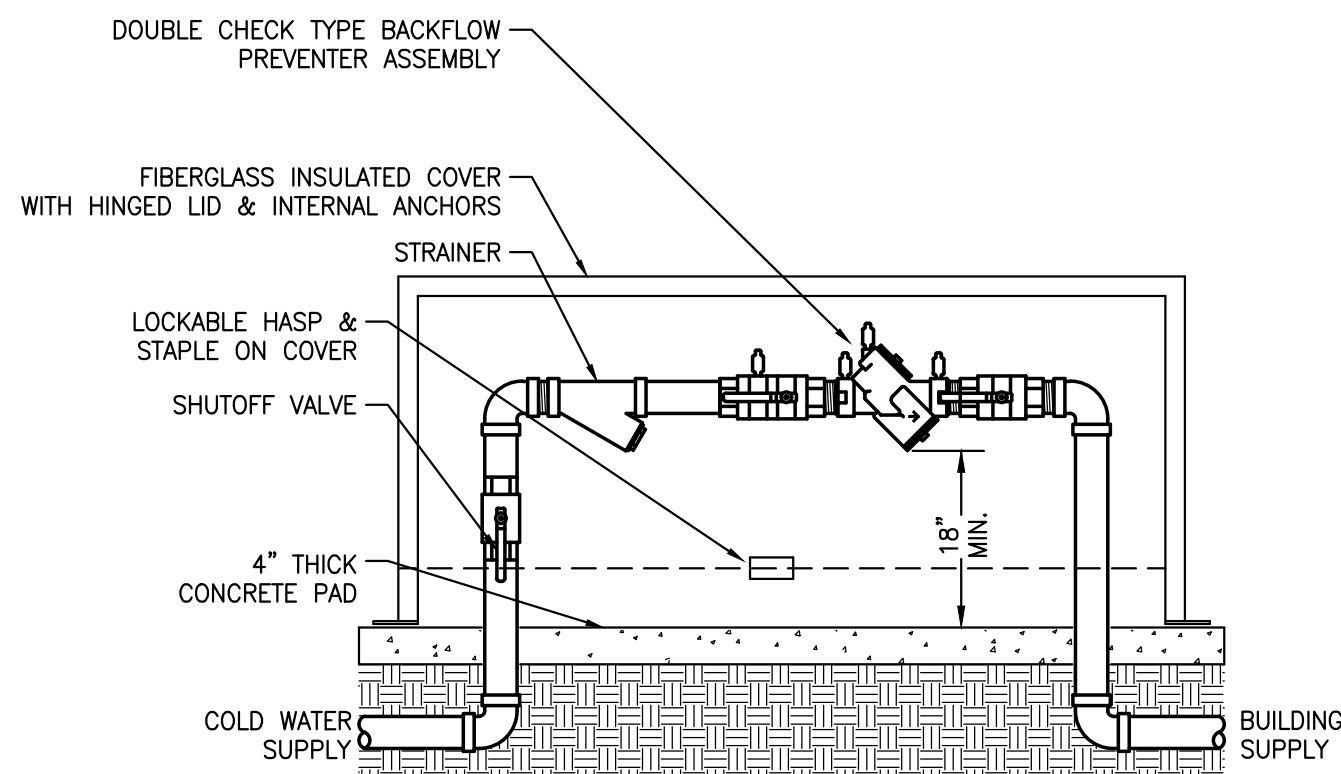
4 IN-GROUND OIL/WATER SEPARATOR DETAIL
SCALE: N.T.S.



NOTE:

1. COORDINATE INSTALLATION OF W.P. MEMBRANE WITH G.C..

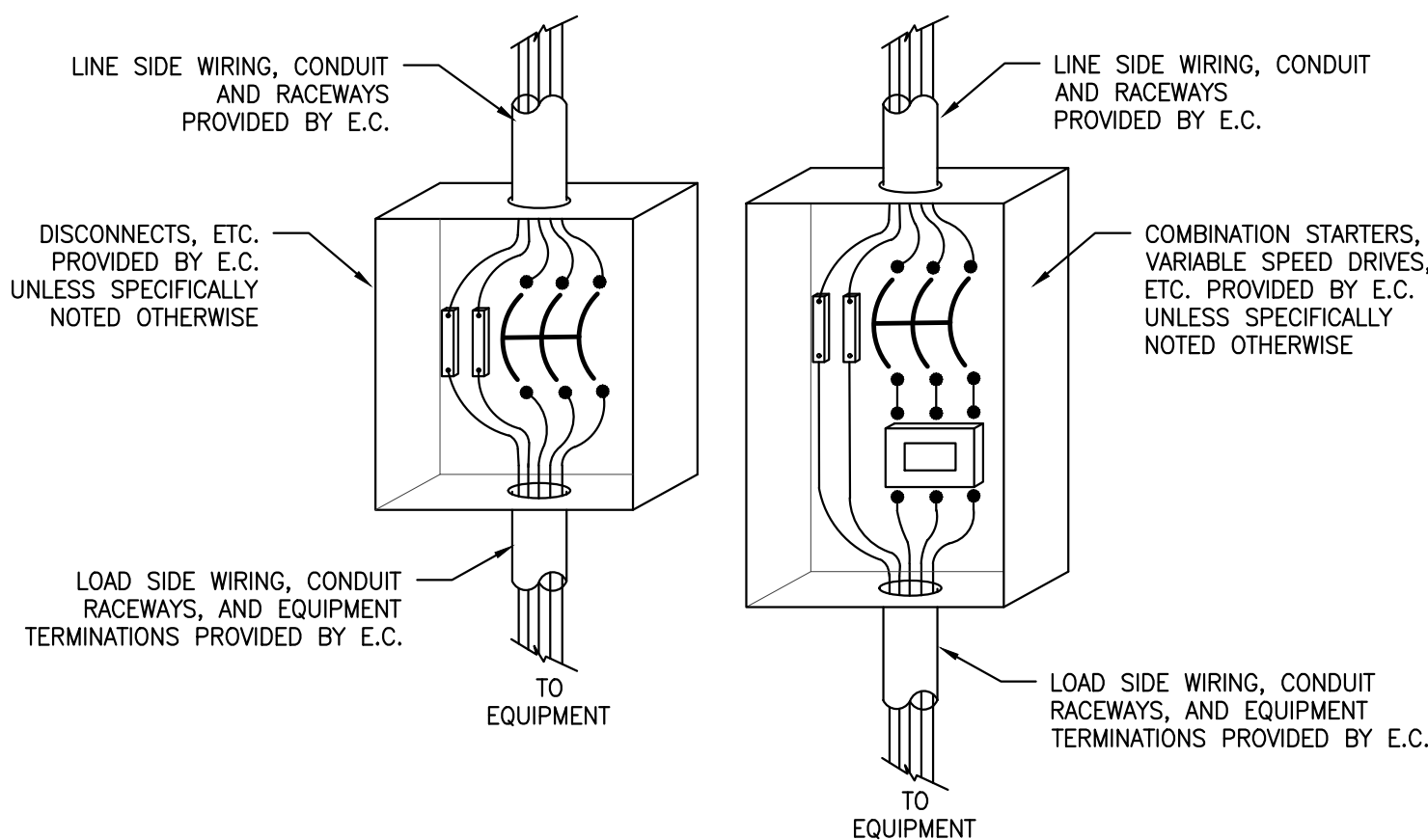
5 ICE MACHINE DRAIN
SCALE: N.T.S.



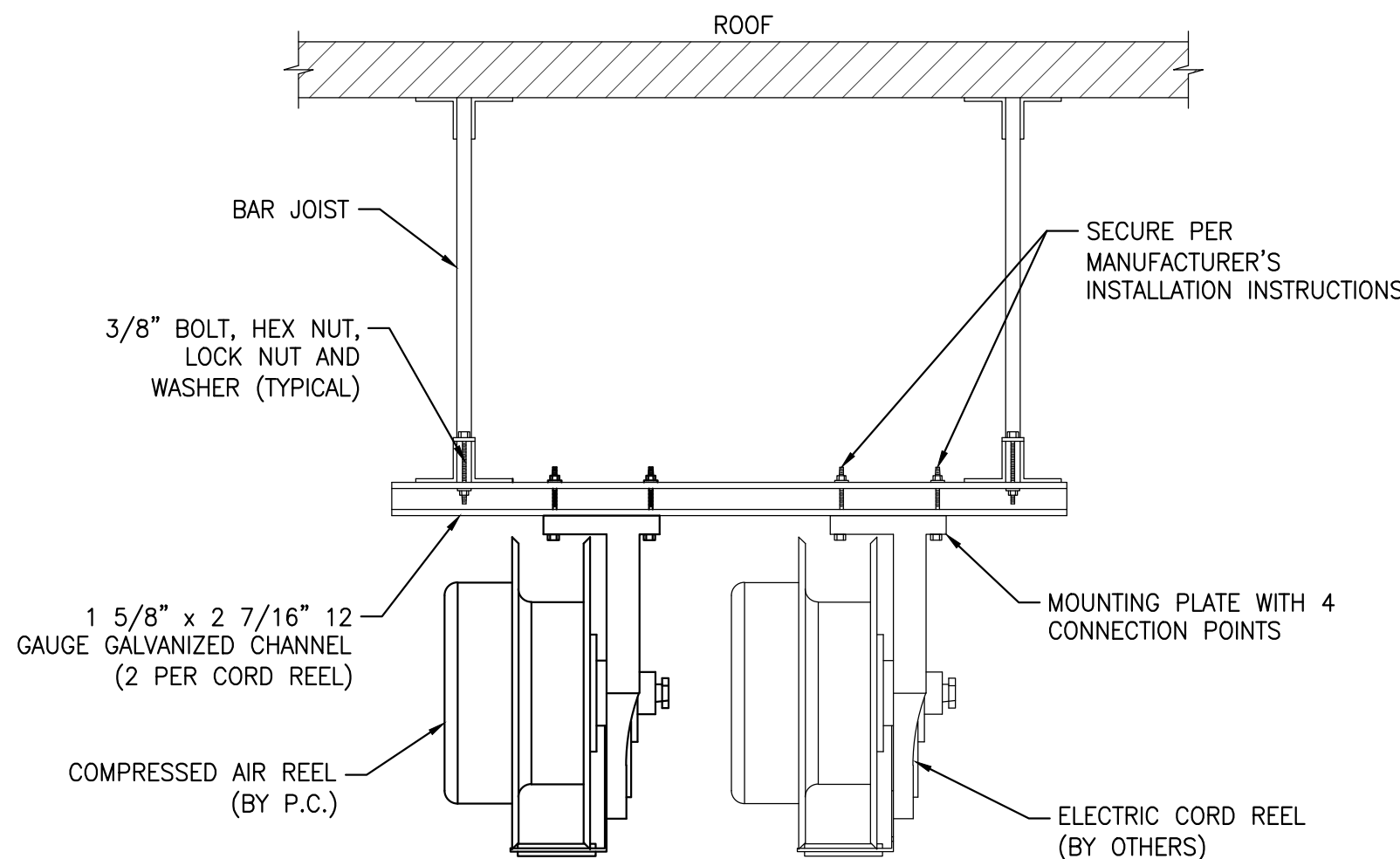
NOTES:

1. COVER SHALL BE SIZED TO MATCH BACKFLOW PREVENTER ASSEMBLY TO ALLOW ADEQUATE CLEARANCE FOR TESTING AND MAINTENANCE.
2. PROTECT PIPING & ASSEMBLY FROM FREEZING WITH HEATER OPTION WHERE SPECIFIED.
3. SET PRV INITIAL PRESSURE AT 60 PSI.

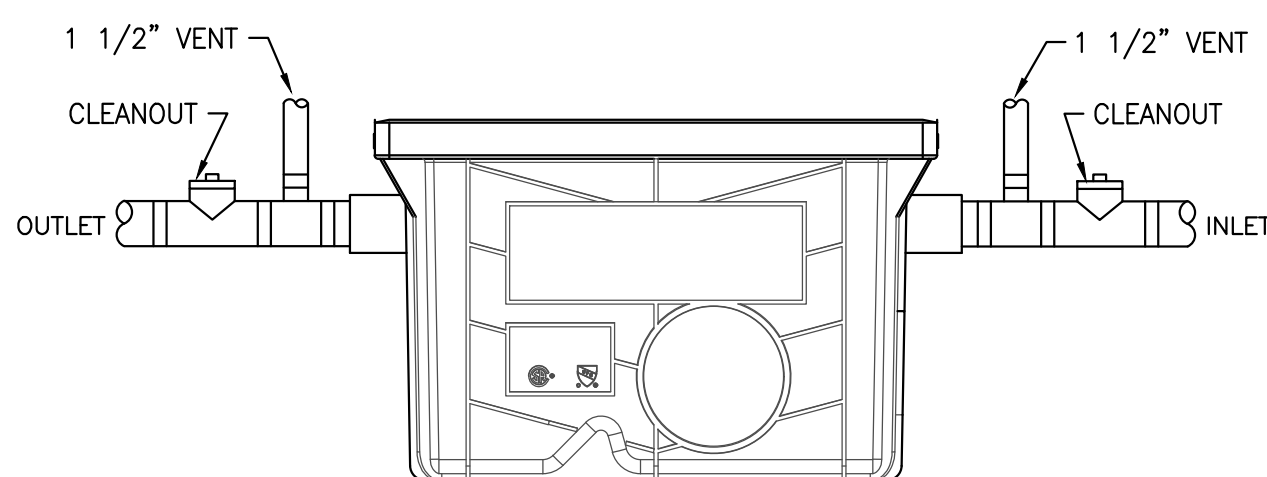
6 BACKFLOW PREVENTER DETAIL
SCALE: N.T.S.



7 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.



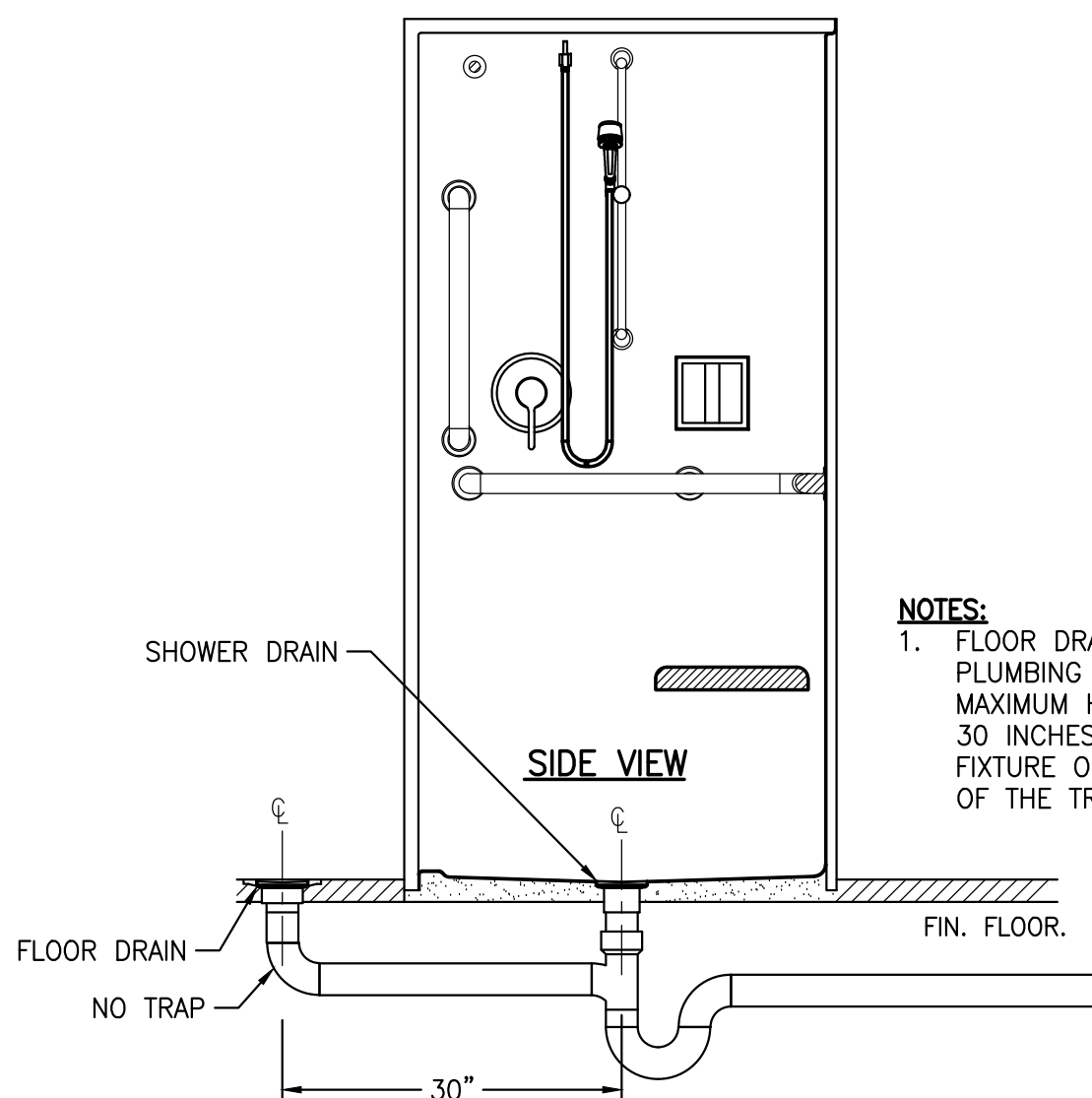
8 CORD REEL MOUNTING DETAIL
SCALE: N.T.S.



NOTE:

1. MATERIALS AND INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LOCAL HEALTH DEPARTMENT OIL AND GREASE PROGRAM. (CODE REF.: NPCC SECTION 1003).
2. FOLLOW ALL INSTALLATION GUIDELINES FOR BURIAL OF TANK.

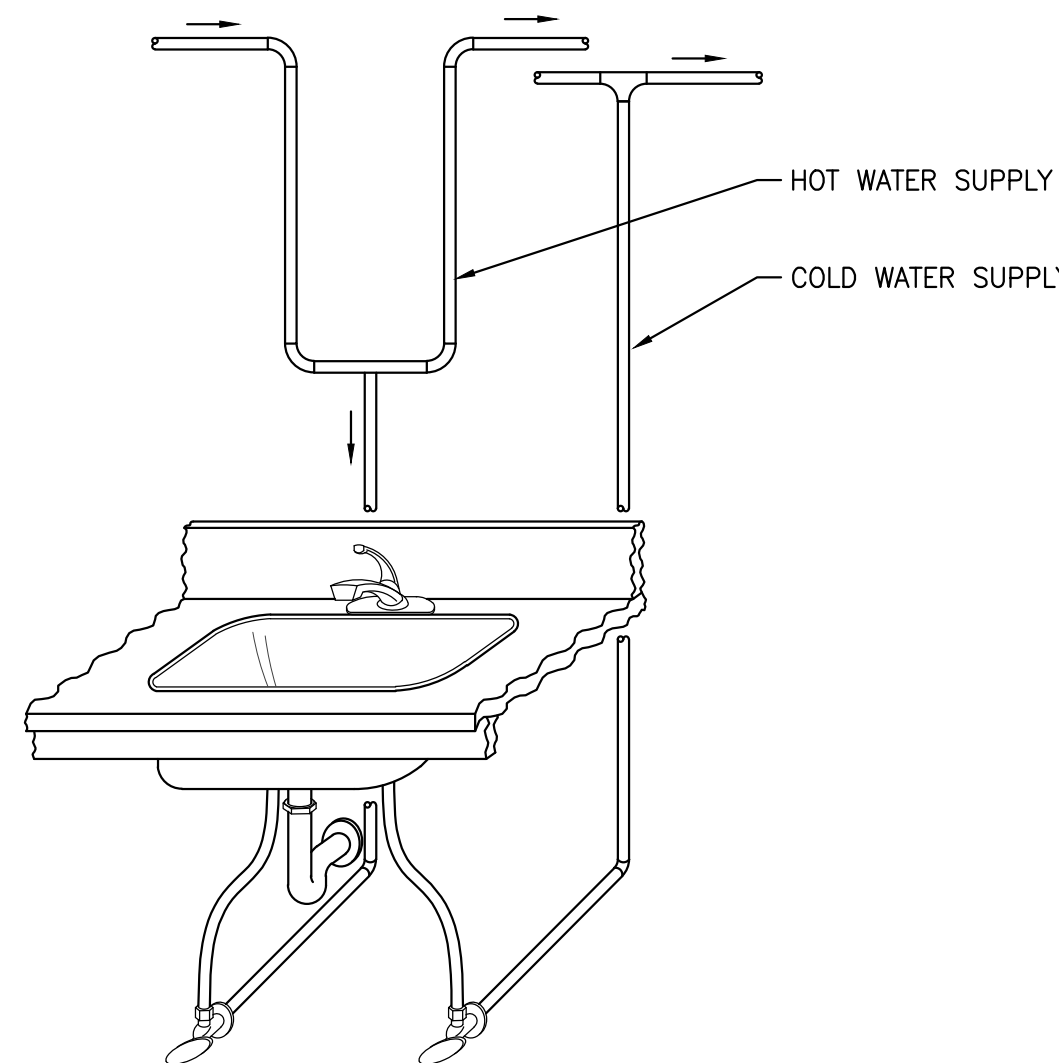
9 IN-GROUND GREASE INTERCEPTOR DETAIL
SCALE: N.T.S.



NOTES:

1. FLOOR DRAIN OUTSIDE SHOWER SHALL FOLLOW NC PLUMBING CODE SECTION 1002.1 WHERE THE MAXIMUM HORIZONTAL DISTANCE SHALL NOT EXCEED 30 INCHES MEASURED FROM THE CENTERLINE OF THE FIXTURE OUTLET TO THE CENTERLINE OF THE INLET OF THE TRAP.

10 SHOWER DRAIN DETAIL
SCALE: N.T.S.



NOTE: RECIRCULATION LINE LOOP SHALL EXTEND DOWN A MAXIMUM OF 24" ABOVE FIXTURE.

11 HOT WATER SUPPLY DETAIL
SCALE: N.T.S.



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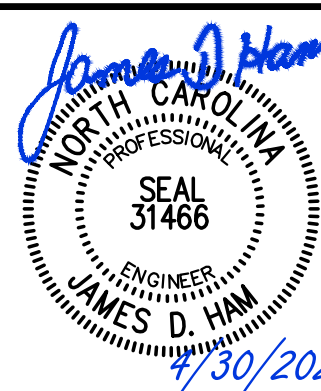
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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



REVISIONS:		
#	DESC:	DATE

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

PLUMBING DETAILS

P3.03

System No. F-C-1006

September 03, 2004

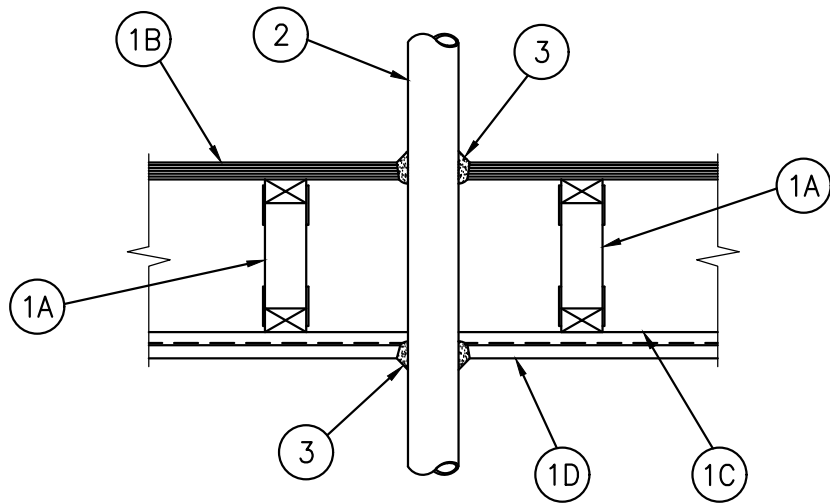
(Formerly System No. 453)

F Rating - 1 Hr

T Rating - 1 Hr

L Rating At Ambient - Less Than 1 CFM/sq ft

L Rating At 400 F - Less Than 1 CFM/sq ft



- FLOOR-CEILING ASSEMBLY - THE 1 HR FIRE RATED WOOD JOIST, WOOD TRUSS OR COMBINATION WOOD AND STEEL TRUSS FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL L500-SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:
 - JOISTS OR TRUSSES - NOM 2 BY 10 IN. LUMBER JOISTS, MIN 12 IN. DEEP PARALLEL CHORD TRUSSES FABRICATED FROM NOM 2 BY 4 IN. LUMBER IN CONJUNCTION WITH GALV STEEL TRUSS PLATES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED.
 - FLOORING - NOM 3/4 IN. THICK PLYWOOD FLOORING WITH OR WITHOUT FLOOR TOPPING MIXTURE*. MAX DIAM OF OPENING IS 5 IN.
 - FURRING CHANNELS - RIGID OR RESILIENT GALV STEEL FURRING CHANNELS INSTALLED PERPENDICULAR TO BOTTOM CHORD OF TRUSSES.
 - GYPSUM BOARD* - NOM 4 FT WIDE BY 5/8 IN. THICK, SCREW-ATTACHED TO FURRING CHANNELS. MAX DIAM OF OPENING IS 1-1/4 IN.
- CHASE WALL (OPTIONAL, NOW SHOWN) - THE THROUGH PENETRANTS (ITEM NO. 2) MAY BE ROUTED THROUGH A 1 HR FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM WALLBOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - NOM 2 BY 6 IN. OR DOUBLE NOM 2 BY 4 IN. LUMBER STUDS.
 - SOLE PLATE - NOM 2 BY 6 IN. OR PARALLEL 2 BY 4 IN. LUMBER PLATES, TIGHTLY BUTTED.
 - TOP PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 6 IN. OR TWO SETS OF PARALLEL 2 BY 4 IN. LUMBER PLATES, TIGHTLY BUTTED. MAX DIAM OF OPENING IS 5 IN.
 - GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.
- PIPE OR CONDUIT - NOM 10 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE OR CAST IRON PIPE, NOM 4 IN. DIAM (OR SMALLER) STEEL CONDUIT OR STEEL EMT OR NOM 3 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. PIPE TO BE INSTALLED APPROX MIDWAY BETWEEN JOISTS OR TRUSSES AND CENTERED IN CIRCULAR CUTOUTS. DIAM OF CIRCULAR CUTOUTS IS 1/4 IN. TO 1/2 IN. LARGER THAN DIAM OF THE PIPE. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.
- FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 3/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE. MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. AN ADDITIONAL MIN 1/4 IN. CROWN OF FILL MATERIAL APPLIED TO PERIMETER OF PENETRANT AT ITS EGRESS FROM THE TOP OF FLOORING AND UNDERSIDE OF CEILING OR FROM TOP OF SOLE PLATE AND UNDERSIDE OF TOP PLATE.

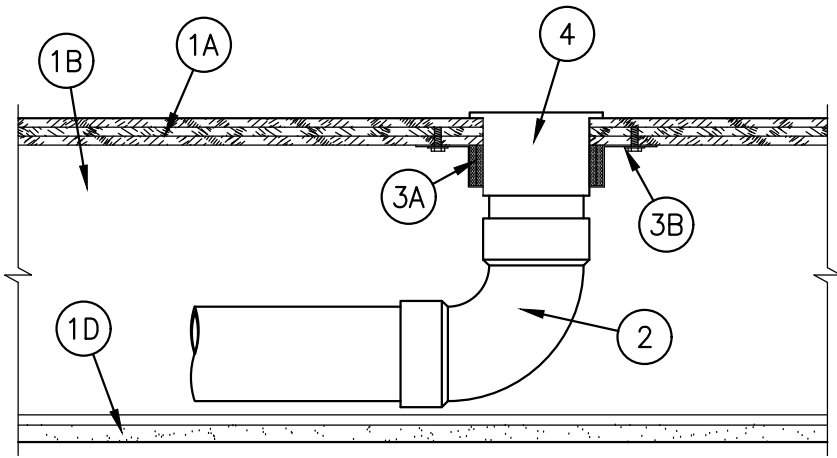
3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING

System No. F-C-2037

F-Rating - 1 Hr

T-Rating - 1 Hr



- FLOOR - CEILING ASSEMBLY - THE FIRE-RATED SOLID OR TRUSSED LUMBER JOIST FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN INDIVIDUAL L500 SERIES FLOOR-CEILING DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY. THE GENERAL CONSTRUCTION DETAILS OF THE FLOOR-CEILING ASSEMBLY ARE SUMMARIZED BELOW:
 - FLOORING SYSTEM - LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OF LUMBER, PLYWOOD OR FLOOR TOPPING MIXTURE* AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. MAX DIAM OF OPENING IS 5 IN.
 - WOOD JOISTS - NOM 2 BY 10 IN. LUMBER JOISTS SPACED 16 IN. OC WITH NOM 1 BY 3 IN. LUMBER BRIDGING AND WITH ENDS FIRESTOPPED. AS AN ALTERNATE TO LUMBER JOISTS, NOM 10 IN. DEEP (OR DEEPER) LUMBER, STEEL OR COMBINATION LUMBER AND STEEL JOISTS, TRUSSES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED WITH ENDS FIRESTOPPED.
 - FURRING CHANNELS - RESILIENT GALV STEEL FURRING INSTALLED PERPENDICULAR TO WOOD JOISTS (ITEM 1B) BETWEEN WALLBOARD (ITEM 1D) AND WOOD JOISTS AS REQUIRED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
 - GYPSUM BOARD* - NOM 4 FT WIDE BY 5/8 IN. THICK AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN. WALLBOARD SECURED TO WOOD JOISTS AS SPECIFIED IN THE INDIVIDUAL FLOOR-CEILING DESIGN.
- DRAIN PIPING - NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 POLYVINYL CHLORIDE (PVC) OR ACRYLONITRILE BUTADIENE STYRENE (ABS) DRAIN PIPING AND FITTINGS. DIAM OF CIRCULAR OPENING HOLE THROUGH FLOORING (ITEM 1A) TO BE MAX 1/2 IN. LARGER THAN OUTSIDE DIAM OF PIPE. SHORT LENGTH OF PIPE WITH 90 DEGREE ELBOW FITTING CEMENTED INTO BOTTOM SOCKET OF CLOSET FLANGE (ITEM 5). DRAIN PIPING CEMENTED TO ELBOW.
- FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - FILL, VOID OR CAVITY MATERIALS* - WRAP STRIP - NOM 1/4 IN. THICK INTUMESCENT MATERIAL FACED ON BOTH SIDES WITH A PLASTIC FILM, SUPPLIED IN 1-1/2 IN. WIDE STRIPS. NOM 1-1/2 IN. WIDE STRIPS TIGHTLY-WRAPPED AROUND NONMETALLIC PIPE WITH THE EDGES BUTTED AGAINST THE UNDERSIDE OF FLOORING AND AROUND THE ENTIRE PERIMETER OF THE HOLE-SAWED OPENING. TWO LAYERS OF WRAP STRIP ARE REQUIRED. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH BUTTED SEAM, BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED OR ALIGNED. WRAP STRIP LAYER(S) TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE. SPECIFIED TECHNOLOGIES INC - SPECSEAL RED STRIP
 - STEEL COLLAR - COLLAR FABRICATED FROM COILS OF PRECUT 0.016 IN. THICK (30 MSG) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. COLLAR SHALL BE NOM 1-1/2 IN. DEEP WITH MIN FOUR 1 IN. WIDE BY 2 IN. LONG ANCHOR TABS FOR SECUREMENT TO TOP SURFACE OF FLOORING. RETAINER TABS, 3/4 IN. WIDE TAPERING DOWN TO 1/4 IN. WIDE AND LOCATED OPPOSITE THE ANCHOR TABS, ARE FOLDED 90 DEGREES TOWARD THROUGH-PENETRANT SURFACE TO MAINTAIN THE ANNULAR SPACE AROUND THE THROUGH-PENETRANT AND TO RETAIN THE WRAP STRIPS. STEEL COLLAR WRAPPED AROUND WRAP STRIPS AND THROUGH-PENETRANT WITH A 1 IN. WIDE OVERLAP ALONG ITS PERIMETER JOINT AND SECURED TOGETHER BY MEANS OF A MIN 1/2 IN. WIDE BY 0.028 IN. THICK STAINLESS STEEL HOSE CLAMP AT MID-HEIGHT OF THE STEEL COLLAR. AS AN ALTERNATE TO THE STEEL HOSE CLAMP, THE STEEL COLLAR CAN BE SECURED TOGETHER BY MEANS OF THREE NO. 8 BY 3/8 IN. LONG STEEL SHEET METAL SCREWS. ANCHOR TABS OF COLLAR BENT OUTWARDS AND SECURED TO TOP SURFACE OF FLOORING OR UNDERSIDE OF FLOOR USING MIN 3/4 IN. LONG STEEL WOOD SCREWS IN CONJUNCTION WITH 1/4 IN., BY 1-1/4 IN. DIAM STEEL FENDER WASHERS.
- CLOSET FLANGE - PVC OR ABS CLOSET STUB SIZED TO ACCOMMODATE DRAIN PIPE. CLOSET FLANGE INSTALLED IN HOLE-SAWED OPENING IN FLOORING SYSTEM WITH FLANGE SECURED TO TOP OF FLOORING WITH STEEL SCREWS.
- WATER CLOSET (NOT SHOWN) - FLOOR MOUNTED VITREOUS CHINA WATER CLOSET.
*BEARING THE UL CLASSIFICATION MARKING

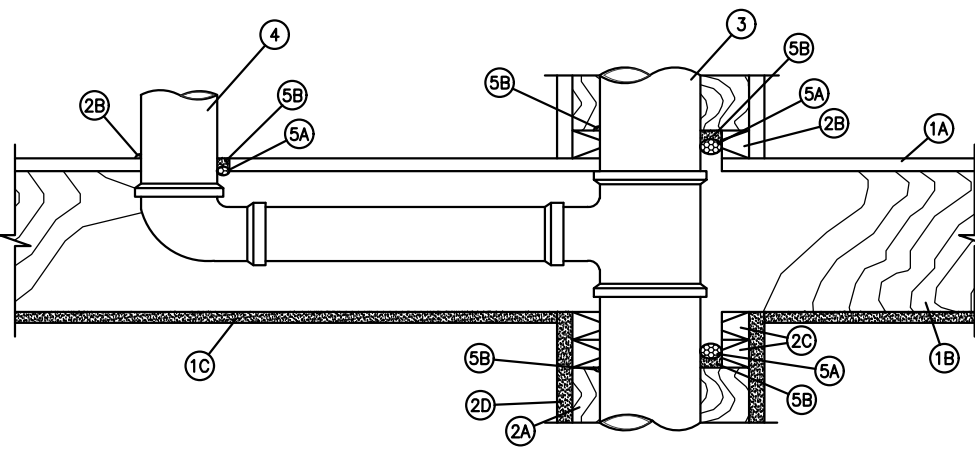
FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

THROUGH-PENETRATION FIRESTOP SYSTEMS

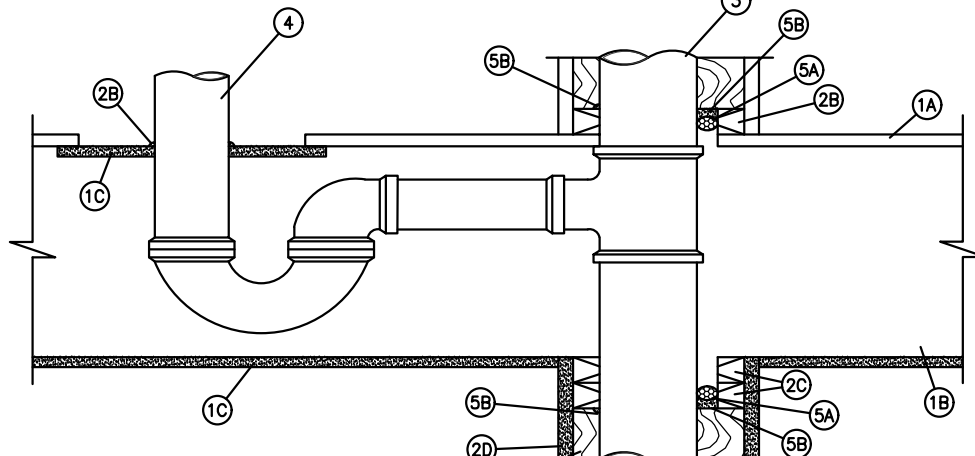
UL SYSTEM NO. F-C-2347

F RATING - 1 HR

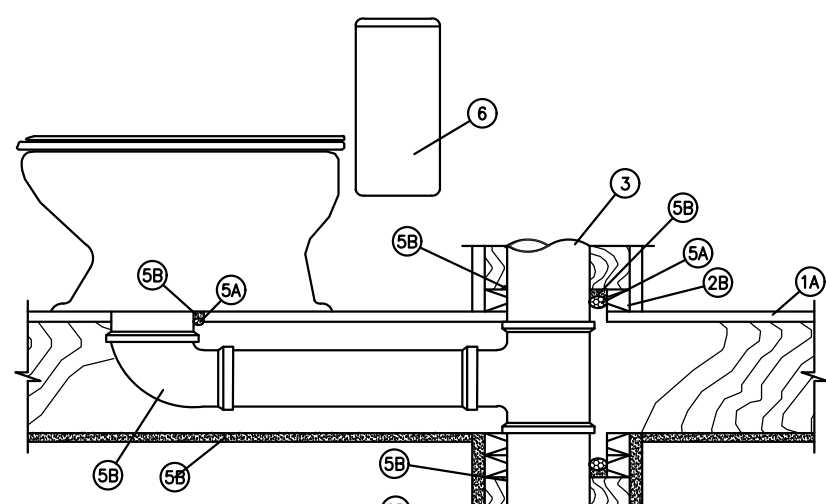
T RATING - 1 HR



CONFIGURATION A



CONFIGURATION B



CONFIGURATION C

- Floor Assembly - The 1 hr fire rated wood truss or combination wood and steel truss Floor-Ceiling assembly shall be constructed of the materials and in the manner described in the individual L500 Series Design in the UL Fire Resistance Directory, as summarized below:
 - Flooring System - Lumber or plywood subfloor with finish floor of lumber, plywood or Floor Topping Mixture* as specified in the individual Floor-Ceiling Design. Dia. of opening shall be 1 in. (25 mm) larger than the nom. dia. of nonmetallic pipe (Items 3 and 4).
 - Joists - Nom. 10 in. (254 mm) deep (or deeper) lumber, steel or combination lumber and steel joists, trusses or Structural Wood Members* with bridging as required and ends firestopped.
 - Gypsum Board* - Nom. 4 ft (122 cm) wide by 5/8 in. (16 mm) thick, attached as described in the individual Floor-Ceiling Design. One piece of gypsum board, min. 2 in. (51 mm) longer and wider than cutout in the flooring, screw-attached to bottom of flooring concentric with cutout by means of 1 in. (25 mm) long Type S steel screws spaced max 4 in. (102 mm) OC. Max. dia. of opening in gypsum wallboard patch is nom. 3 in. (76 mm).
- Chase Wall - The through penetrant (Item No. 3) shall be routed through a 1 hr fire-rated single, double or staggered wood studs/gypsum board chase wall constructed of the materials and in the manner specified in the individual U300 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 - Studs - Nom. 2 by 6 in. (51 by 152 mm) or double nom 2 by 4 in. (51 by 102 mm) lumber studs.
 - Sole Plate - Nom. 2 by 6 in. (51 by 152 mm) or parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Dia. of opening shall be 1 in. (25 mm) larger than the nom. dia. of nonmetallic pipe (Item 3).
 - Top Plate - The double top plate shall consist of two nom 2 by 6 in. (51 by 152 mm) or two sets of parallel 2 by 4 in. (51 by 102 mm) lumber plates, tightly butted. Dia. of opening shall be 1 in. (25 mm) larger than the nom. dia. of nonmetallic pipe (Item 3).
 - Gypsum Board* - Thickness, type, number of layers and fasteners shall be as specified in individual Wall and Partition Design.
- Through Penetrant - One nonmetallic pipe to be installed within the firestop system. Pipe to be rigidly supported on both sides of floor-ceiling assembly. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes and fittings may be used:
 - Polyvinyl Chloride (PVC) Pipe - Nom. 4 in. (102 mm) dia. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom. 4 in. (102 mm) dia. (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping system.
 - Cellular Core Polyvinyl Chloride (ccPVC) Pipe - Nom 4 in. (102 mm) dia. (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom. 4 in. (102 mm) dia. (or smaller) Schedule 40 solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Cellular Core Acrylonitrile Butadiene Styrene (ccABS) Pipe - Nom. 4 in. (102 mm) dia. (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Crosslinked Polyethylene (PEX) Tubing - Nom 2 in. (51 mm) dia. (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
 - Rigid Nonmetallic Conduit+ - Nom. 4 in. (102 mm) dia. (or smaller) Schedule 40 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NFPA No. 70).
- Branch Piping - (Optional) One nonmetallic pipe with or without p-trap to be connected to through penetrant (Item 3) and installed within opening in subfloor or wallboard plate. The annular space between pipe and periphery of opening shall be min. 0 in. (point contact) to max. 1/2 in. (13 mm). The following types and sizes of nonmetallic pipes, fittings and flanges may be used:
 - Polyvinyl Chloride (PVC) Pipe - Nom. 3 in. (76 mm) (Configurations A and B) or 4 in. (102 mm) (Configuration C) dia. (or smaller) Schedule 40 solid core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Chlorinated Polyvinyl Chloride (CPVC) Pipe - Nom. 3 in. (76 mm) dia. (or smaller) SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
 - Cellular Core Polyvinyl Chloride (ccPVC) Pipe - Nom. 3 in. (76 mm) (Configurations A and B) or 4 in. (Configuration C) dia. (or smaller) Schedule 40 cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Acrylonitrile Butadiene Styrene (ABS) Pipe - Nom. 3 in. (76 mm) (Configurations A and B) or 4 in. (102 mm) (Configuration C) dia. (or smaller) Schedule 40 solid core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 - Cellular Core Acrylonitrile Butadiene Styrene (ccABS) Pipe - Nom 3 in. (76 mm) (Configurations A and B) or 4 in. (102 mm) (Configuration C) dia. (or smaller) Schedule 40 cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 - Crosslinked Polyethylene (PEX) Tubing - Nom. 2 in. (51 mm) dia. (or smaller) SDR 9 PEX tubing for use in closed (process or supply) piping systems.
- Firestop System - The firestop system shall consist of the following:
 - Packing Material - (Optional) Foam backer rod firmly packed into opening in plywood floor and sole and top plates as a permanent form. Packing material to be recessed from top surface of subfloor or sole plate, and bottom surface of top plate to accommodate the required thickness of fill material.
 - Fill, Void or Cavity Materials* - Caulk - Min. 1/2 in. (13 mm) thickness of caulk applied within annular space around perimeter of through penetrant (Item 3), flush with top surface of floor or sole plate and flush with bottom surface of lower top plate. Min. 1/2 in. (13 mm) thickness of caulk applied within annular space around perimeter of branch piping (Item 4), flush with top surface of floor. Min. 1/4 in. (6 mm) dia. bead applied at the interface of floor or plates with pipes, at all point contact locations. For Configuration B only, min. 1/2 in. (13 mm) thickness of fill material applied around branch drain pipe, flush with top surface of gypsum board.
A/D FIRE PROTECTION SYSTEMS INC - A/D FIREBARRIER Intumescent Sealant or A/D FIREBARRIER Acrylic Sealant
- Water Closet - (Configuration C Only) Floor mounted vitreous china water closet.

*Bearing the UL Classification Mark

+Bearing the UL Listing Mark

1 UL 1 HOUR PLYWOOD FLOOR/CEILING PENETRATION DETAIL
SCALE: N.T.S.

2 FLOOR CLOSET IN UL 1 HOUR WOOD FLOOR DETAIL
SCALE: N.T.S.

3 UL 1 & 2 HOUR GYPBOARD WALL PENETRATION (PVC PIPE) DETAIL
SCALE: N.T.S.



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MAYSVILLE FIRE STATION

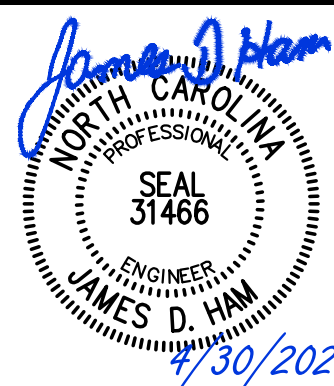
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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



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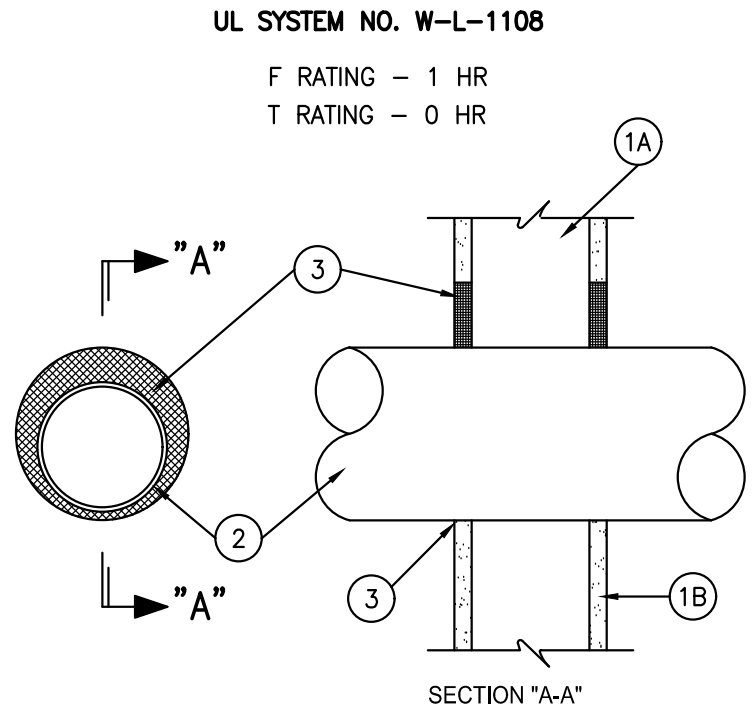
DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

PLUMBING DETAILS

P3.04



1. WALL ASSEMBLY – THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
 - B. WALLBOARD, GYPSUM* – ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 11-3/4 IN.
2. THROUGH PENETRANTS – ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE – NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - B. IRON PIPE – NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - C. CONDUIT – NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - D. COPPER TUBING – NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - E. COPPER PIPE – NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
3. FILL, VOID OR CAVITY MATERIAL – CAULK – MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS; FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

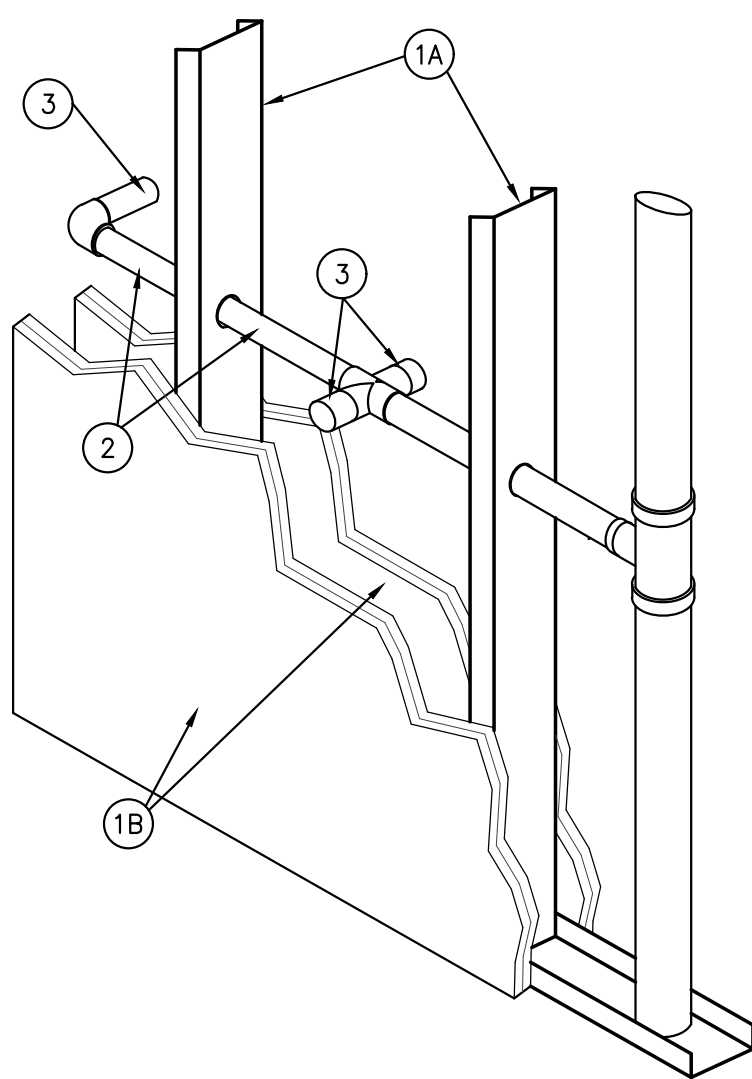
THE RECTORSEAL CORP.–METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

- 1 UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.

UL SYSTEM NO. W-L-2035

F RATING – 1 AND 2 HR
T RATING – 1 1/2 AND 2 HR (SEE ITEM 3)



1. CHASE WALL–THE FIRE RATED GYPSUM WALLBOARD/STUD CHASE WALL SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3 5/8 IN. WIDE AND SPACED MAX 24 IN. O.C.
 - B. WALLBOARD, GYPSUM* – NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. HOLE–SAWED OPENING IN GYPSUM WALLBOARD LAYERS TO ACCOMMODATE STUB OUT DEVICE (ITEM 3) TO BE 2 IN. IN DIAMETER.
2. NONMETALLIC PIPE– NOM 1 1/2 IN. DIA. SCHEDULE 40 PVC DRAIN, WASTE OR VENT PIPE WITH ASSOCIATED TEE AND ELBOW FITTINGS. SOCKET OF TEE OR ELBOW TO ALIGN WITH 2 IN. DIA. OPENING HOLE SAWED THROUGH GYPSUM WALLBOARD LAYERS AT EACH STUB OUT LOCATION. PIPE TO BE RIGIDLY SUPPORTED WITHIN STUD CAVITY OF CHASE WALL.
3. FIRESTOP DEVICE* – STUB OUT – CAST IRON LINED PVC SLEEVE PROVIDED WITH TRAP ADAPTER OR COUPLING AT ONE END FOR SINK DRAIN CONNECTION. STUB–OUT DEVICE CEMENTED INTO SOCKET OF TEE OR ELBOW OF PVC DWV PIPING WITHIN STUD CAVITY OF CHASE WALL. WHEN INSTALLED ON BOTH SIDES OF CHASE WALL (4-WAY TEE), T RATING IS 1-1/2 HR. MAX. WHEN INSTALLED ON ONLY ONE SIDE OF CHASE WALL, T RATING IS 2 HR.

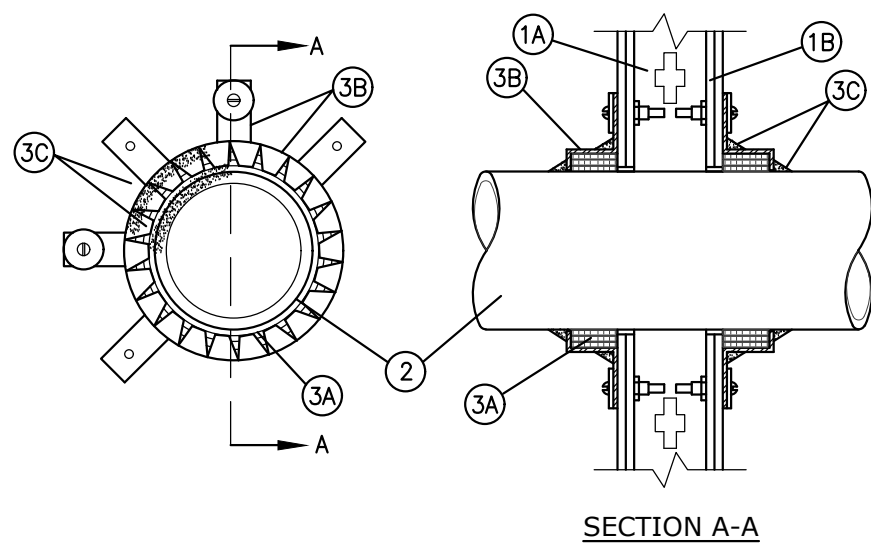
*BEARING THE UL CLASSIFICATION MARKING.

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

- 2 UL 1 & 2 HOUR GYPSUM WALL PENETRATION (PVC PIPE) DETAIL
SCALE: N.T.S.

UL SYSTEM NO. W-L-2002

F RATING – 1, 1-1/2 AND 2 HR (SEE ITEM 3)
T RATING – 3/4, 1, 1-1/2 AND 2 HR (SEE ITEM 3)
L RATING AT AMBIENT – 7 CFM/SQ FT (SEE ITEM 3C)
L RATING AT 400 F – 1 CFM/SQ FT (SEE ITEM 3C)



1. WALL ASSEMBLY – THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 IN. BY 4 IN. (51 MM BY 102 MM) LUMBER SPACED 16 IN. (406 MM) OC. STEEL STUDS TO BE MIN 3-5/8 IN. (92 MM) WIDE BY 1-3/8 IN. (35 MM) DEEP CHANNELS SPACED MAX 24 IN. (610 MM) OC.
- B. GYPSUM BOARD* – 5/8 IN. (16 MM) THICK, 4 FT (122 CM) WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 7 IN. (178 MM).

2. NONMETALLIC PIPE OR CONDUIT – ONE NONMETALLIC PIPE OR CONDUIT IS CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE INSTALLED NEAR CENTER OF STUD CAVITY WIDTH AND TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUIT MAY BE USED:

- A. NOM 6 IN. (152 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID-CORE POLYVINYL CHLORIDE (PVC) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
- B. NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 CELLULAR CORE POLYVINYL CHLORIDE (PVC) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
- C. NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 SOLID-CORE ACRYLONITRILE-BUTADIENE-STYRENE (ABS) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
- D. NOM 4 IN. (102 MM) DIAM (OR SMALLER) SCHEDULE 40 FIRE RETARDANT POLYPROPYLENE (FRPP) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) OR VENTED (DRAIN, WASTE OR VENT) PIPING SYSTEMS.
- E. NOM 4 IN. (102 MM) DIAM (OR SMALLER) RIGID NONMETALLIC CONDUIT FORMED OF PVC.
- F. NOM 1 IN. (25 MM) DIAM (SMALLER) ELECTRICAL NONMETALLIC TUBING FORMED OF PVC.
- G. NOM 6 IN. (152 MM) DIAM (OR SMALLER) SDR13.5 CHLORINATED POLYVINYL CHLORIDE (CPVC) PIPE FOR USE IN CLOSED (PROCESS OR SUPPLY) PIPING SYSTEMS. SEE RIGID NONMETALLIC CONDUIT (DZKT) AND ELECTRICAL NONMETALLIC TUBING (FKHU) CATEGORIES IN UL ELECTRICAL CONSTRUCTION MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS.

3. FIRESTOP SYSTEM – INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE HOURLY F AND T RATINGS FOR THE FIRESTOP SYSTEM ARE DEPENDENT UPON THE TYPE AND SIZE OF NONMETALLIC PIPE OR CONDUIT, THE PIPING SYSTEM TYPE (CLOSED SYSTEMS SUCH AS PROCESS OR SUPPLY PIPING OR VENTED SYSTEMS SUCH AS DRAIN, WASTE OR VENT PIPING) AND THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED, AS SHOWN IN THE FOLLOWING TABLE:

PIPE OR CONDUIT TYPE	NOM PIPE DIAM IN. (MM)	ANNULAR SPACE IN. (MM)	PIPING SYSTEM (A)	WALL FIRE RATING HR	F RATING HR	T RATING HR
FRPP	1/2 TO 2 (13 TO 51)	0-3/16 (0-5)	V	2	1-1/2	1-1/2
FRPP, PB	1/2 TO 2 (13 TO 51)	0-3/16 (0-5)	C	2	2	2
ABS	1/2 TO 4 (13 TO102)	0-3/16 (0-5)	C, V	1	1	3/4
ABS	1/2 TO 4 (13 TO102)	0-3/16 (0-5)	C, V	2	1-1/2	1-1/2
PVC	1/2 TO 4 (13 TO102)	0-3/16 (0-5)	C, V	1	1	1
PVC	1/2 TO 4 (13 TO102)	0-3/16 (0-5)	C, V	2	2	2
FRPP+	2-1/2 TO 4 (64 TO 102)	0-3/16 (0-5)	C, V	2	1-1/2	1-1/2
PVC+	5, 6 (127 TO 152)	0-3/16 (0-5)	C, V	2	1-1/2	1-1/2

+PIPE COVERING MATERIAL WRAP REQUIRED ON PIPE ON BOTH SIDES OF WALL.

(A)C = CLOSED SYSTEMS, V = VENTED SYSTEMS.

- 3 UL 1 & 2 HOUR GYPBOARD WALL PENETRATION (PVC PIPE) DETAIL
SCALE: N.T.S.

THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS.

- A. FILL,VOID OR CAVITY MATERIALS* – WRAP STRIP – NOM 1/4 IN. (6 MM) THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. (51 MM) WIDE STRIPS. NOM 2 IN. (51 MM) WIDE STRIPS TIGHTLY WRAPPED AROUND NONMETALLIC PIPE OR CONDUIT (FOIL SIDE EXPOSED) WITH THE EDGES BUTTED AGAINST THE SURFACE OF THE WALL. SUFFICIENT LAYERS OF WRAP STRIP SHALL BE INSTALLED TO LAP A MIN OF 3/16 IN. (5 MM) ON THE WALL SURFACE AROUND THE ENTIRE PERIMETER OF THE CIRCULAR THROUGH OPENING. FOR NOM 1/2 IN. (13 MM) TO NOM 2 IN. (51 MM) DIAM PIPES OR CONDUITS, A MIN OF ONE LAYER OF WRAP STRIP IS REQUIRED. FOR NOM 2-1/2 IN. (64 MM) AND NOM 3 IN. (76 MM) DIAM PIPES, A MIN OF TWO LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 3-1/2 IN. (89 MM) AND NOM 4 IN. (102 MM) DIAM PIPES, A MIN OF THREE LAYERS OF WRAP STRIP IS REQUIRED. FOR NOM 5 IN. AND 6 IN. (127 MM AND 152 MM) DIAM, TWO TIERS (4 IN. (102 MM) OVERALL LENGTH) OF THREE LAYERS OF WRAP STRIP IS REQUIRED, WITH ADJOINING WRAP STRIP LAYER EDGES BETWEEN TIERS TIGHTLY BUTTED. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH BUTTED SEAM, WITH BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP LAYERS TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE OR EQUIVALENT.

3M COMPANY – FS-195+

- B. STEEL COLLAR – NOM 2 IN. OR 4 IN. (51 MM OR 102 MM) DEEP COLLAR WITH 1-1/4 IN. (32 MM) WIDE BY 2 IN. (51 MM) LONG ANCHOR TABS AND MIN 3/4 IN. (19 MM) LONG TABS TO RETAIN WRAP STRIP LAYERS. COILS OF RECU 0.016 IN. (0.41 MM) THICK (NO. 30 28 GAUGE) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. AS AN ALTERNATE, COLLAR MAY BE FIELD-FABRICATED FROM MIN 0.016 IN. (0.41 MM) THICK (NO. 30 28 GAUGE) GALV SHEET STEEL IN ACCORDANCE WITH INSTRUCTION SHEET SUPPLIED BY WRAP STRIP MANUFACTURER. STEEL COLLAR, WITH ANCHOR TABS BENT OUTWARD 90 DEG, WRAPPED TIGHTLY AROUND WRAP STRIP LAYERS WITH MIN 1 IN. (25 MM) OVERLAP AT THE SEAM, WITH STEEL COLLAR ANCHOR TABS PRESSED TIGHTLY AGAINST WALL SURFACE. COMPRESS COLLAR AROUND WRAP STRIP LAYERS USING A MIN 1/2 IN. (13 MM) WIDE BY 0.028 IN. (0.71 MM) THICK STAINLESS STEEL BAND CLAMP WITH WORM DRIVE TIGHTENING MECHANISM AT THE COLLAR MIDHEIGHT. AS AN ALTERNATE TO THE STAINLESS STEEL BAND CLAMP, THE STEEL COLLAR MAY BE COMPRESSED AROUND NOM 4 IN. (102 MM) DIAM (OR SMALLER NONMETALLIC PIPES USING TWO MIN 16 SWG (0.0625 IN. (0.016 MM) DIAM) STEEL WIRES SECURED WITH MULTIPLE TWISTS. AS AN ALTERNATE TO THE BAND CLAMPS OR STEEL WIRES, COLLARS MAY BE SECURED BY A MEANS NO. 10 BY 1/2 IN. (13 MM) LONG SHEET METAL SCREWS INSTALLED IN THE VERTICAL AXIS AT THE CENTER OF THE 1 IN. (25 MM) OVERLAP ALONG THE PERIMETER JOINT OF THE COLLAR. A MIN OF THREE SCREWS IS REQUIRED. SECURE COLLAR TO WALL SURFACE WITH 3/16 IN. (5 MM) DIAM STEEL TOGGLE BOLTS IN CONJUNCTION WITH MIN 1-1/2 IN. (38 MM) DIAM STEEL WASHERS. THREE BOLTS, SYMMETRICALLY LOCATED, REQUIRED FOR 2 IN (51 MM) DEEP STEEL COLLAR FOR NOM 1/2 IN. (13 MM) TO NOM 3 IN. (76 MM) DIAM PIPES. FOUR BOLTS, SYMMETRICALLY LOCATED, REQUIRED FOR 2 IN. (51 MM) DEEP STEEL COLLAR FOR NOM 3-1/2 IN. AND 4 IN. (89 MM AND 102 MM) DIAM PIPES. FIVE TO SEVEN BOLTS (EVERY OTHER ANCHOR TAB) REQUIRED FOR 4 IN. (102 MM) DEEP STEEL COLLAR FOR NOM 5 IN. AND 6 IN. (127 MM AND 152 MM) DIAM PIPES. AS A FINAL STEP, BEND RETAINER TABS 90 DEG TOWARD PIPE TO LOCK WRAP STRIP LAYERS IN POSITION.

- C. FILL,VOID OR CAVITY MATERIALS* – CAULK, SEALANT OR PUTTY – GENEROUS BEAD OF CAULK APPLIED TO OUTER PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACE AND TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WRAP STRIP LAYERS.

3M COMPANY – CP 25WB+, IC 15WB+, FIREDAM 150+ CAULK, FB-3000 WT SEALANT OR MP+ STIX PUTTY
(NOTE: L RATINGS APPLY ONLY WHEN CP 25WB+ CAULK OR FB-3000 WT SEALANT IS USED.
CP 25WB+ NOT SUITABLE FOR USE WITH CPVC PIPES.)

- D. PIPE COVERING* (NOT SHOWN) – NOM 1 IN. (25 MM) THICK HOLLOW CYLINDRICAL HEAVY DENSITY GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. WHEN REQUIRED (SEE TABLE), MIN 6 IN. (152 MM) LENGTH OF PIPE COVERING INSTALLED AROUND PVC PIPE AT ITS EGRESS FROM STEEL COLLAR ON BOTH SIDES OF WALL. PIPE COVERING SECURED TO PIPE WITH STEEL WIRE TIES SPACED MAX 4 IN. (102 MM) OC. EDGE OF PIPE COVERING ABUTTING STEEL COLLAR TO BE SEALED WITH A MIN 1/4 IN. (6 MM) DIAM BEAD OF CAULK (ITEM C).

SEE PIPE AND EQUIPMENT COVERING – MATERIALS (BRGU) CATEGORY IN BUILDING

MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

- E. FIRESTOP DEVICE* (NOT SHOWN) – AS AN ALTERNATE TO ITEMS A, B AND C FOR NOM 1-1/2 IN., 2 IN., 3 IN. OR 4 IN. (38 MM, 51 MM, 76 MM OR 102 MM) DIAM NONMETALLIC PIPES, A FIRESTOP DEVICE CONSISTING OF A SHEET-STEEL SPLIT COLLAR LINED WITH INTUMESCENT MATERIAL AND PROVIDED WITH STEEL CLIPS FOR ATTACHMENT MAY BE USED. FIRESTOP DEVICE TO BE INSTALLED ON BOTH SIDES OF WALL IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

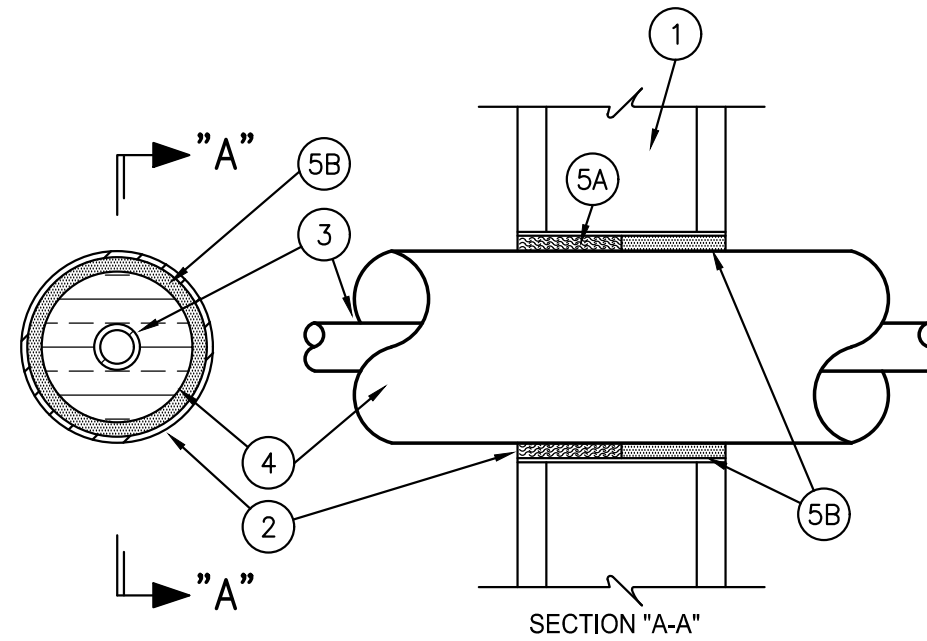
3M COMPANY – PPD 150, PPD 200, PPD 300, PPD 400

*BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY METACAULK AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

UL SYSTEM NO. W-L-5144

F RATING – 1 HR
T RATING – 1 HR



1. WALL ASSEMBLY – THE 1 HR FIRE-RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400 SERIES OR V400 OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A. STUDS – "C-T" SHAPED STUDS 1-5/8 IN. WIDE BY 2-1/2 IN. DEEP, FABRICATED FROM 25 MSG GALV STEEL, SPACED MAX 24 IN. OC.
- B. GYPSUM BOARD* – ONE LAYER OF NOM 1 IN. THICK, 24 IN. WIDE GYPSUM LINER AND ONE LAYER OF NOM 5/8 IN. THICK, 4 FT. WIDE GYPSUM BOARD WITH SQUARED OR TAMPERED EDGES. THE GYPSUM BOARD TYPE, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 6-1/2 IN.

- 1A. WALL ASSEMBLY – AS AN ALTERNATE TO THE ABOVE WALL ASSEMBLY, THE 1 HR FIRE RATED GYPSUM BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300, U400 OR V400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- A. STUDS – WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. OC. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN LUMBER SPACED 16 IN. OC.
- B. GYPSUM BOARD* – THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 6-1/2 IN.

2. METALLIC SLEEVE – MAX 6-1/2 IN. DIAM CYLINDRICAL SLEEVE FABRICATED FROM MIN 0.016 IN. THICK (28 GAUGE) GALV SHEET STEEL AND HAVING A MIN 1 IN. LAP ALONG THE LONGITUDINAL SEAM. LENGTH OF STEEL SLEEVE TO BE EQUAL TO THICKNESS OF WALL. SLEEVE INSTALLED BY COILING THE SHEET STEEL TO A DIAM SMALLER THAN THE THROUGH OPENING, INSERTING THE COIL THROUGH THE OPENING AND RELEASING THE COIL TO LET IT UNCOIL AGAINST THE CIRCULAR CUTOUTS IN THE GYPSUM BOARD LAYERS. SLEEVE MAY ALSO BE FORMED OF NO. 8 STEEL WIRE MESH HAVING A MIN 1 IN. LAP ALONG THE LONGITUDINAL SEAM.

3. THROUGH PENETRANTS – ONE METALLIC PIPE OR TUBE TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:

- A. COPPER TUBING – NOM 1 IN. DIAM (OR SMALLER) TYPE L COPPER TUBING.
- B. COPPER PIPE – NOM 1 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

4. PIPE COVERING* – NOM 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN. 3.5 PCF) GLASS FIBER UNITS, JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SSL TAPE. TRANSVERSE JOINTS SECURED WIT METAL FASTENERS OR WITH BUTT TAPE SUPPLIED WITH THE PRODUCT. THE ANNULAR SPACE BETWEEN THE INSULATEDPIPE AND THE PERIPHERY OF THE STEEL SLEEVE SHALL BE MIN 1/4 IN. TO MAX 1-1/8.

SEE PIPE AND EQUIPMENT COVERING – MATERIALS (BRGU) CATEGORY IN THE BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

5. FIRE STOP SYSTEM – THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:

- A. PACKAGING MATERIAL – MIN 1-5/8 IN. THICKNESS OF MIN 4 PCF MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO SLEEVE ON ONCE SIDE OF THE WALL AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM THE ROOM SIDE OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL. IN ALTERNATE WALL ASSEMBLY, PACKING MATERIAL TO BE FLUSH WITH EITHER SIDE OF THE WALL AND RECESSED FROM THE OTHER SIDE OF THE WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

- B. FILL, VOID OR CAVITY MATERIAL – SEALANT* – MIN 1-1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITH SLEEVE, FLUSH WITH THE ROOM SURFACE OF WALL OR EITHER SURFACE IN THE ALTERNATE WALL ASSEMBLY.

- 4 UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.



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MAYSVILLE FIRE STATION

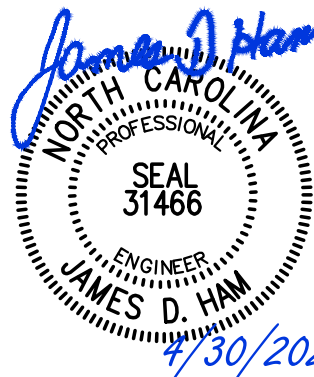
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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



REVISIONS:

#	DESC:	DATE
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DRAWN BY: DEH

PROJECT #: 24008

ISSUE DATE: 04/30/2025

PHASE:

CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

PLUMBING SCHEDULES

P4.01

ELECTRIC WATER HEATER SCHEDULE												
MARK	SIZE	GPH	TEMP. RISE	KW	VOLT/PH	FLA	CW CONN.	HW CONN.	MANF.	REF. MODEL	OPERATING WEIGHT	SIZE HTX DIA
WH-1	120 GAL	27	90°F	6	240V/1Ø	25	1"	1"	A.O. SMITH	DEN-120	1220 LBS	63"x29" Ø
WH-2	20 GAL	8.0	80°F	1.5	120V/1Ø	13.0	3/4"	3/4"	A.O. SMITH	DEL-20	240 LBS	22"x22" Ø

NOTES:

- SET OUTLET WATER TEMPERATURE AT 140°F.
- PROVIDE WITH 3-YEAR TANK WARRANTY AND 1-YEAR PARTS WARRANTY.

LOAD/DEMAND TABLE									
FIXTURE TYPE	QTY.	DRAIN FIXTURE UNITS		WATER SUPPLY FIXTURE UNITS					
		DRAIN	TOTAL	COLD	HOT	CW & HW	HOT TOTAL	SUPPLY TOTAL	
WATER CLOSET (VALVE)	5	4.0	20.0	10.0		10.0		50.0	
URINAL (3/4" INLET)	2	2.0	4.0	5.0		5.0		10.0	
LAVATORY (SMALL P.O.)	5	1.0	5.0	1.5	1.5	2.0	7.50	10.00	
DRINKING FOUNTAIN	2	0.5	1.0	0.25		0.25		0.50	
MOP SINK	1	3.0	3.0	2.25	2.25	3.0	2.25	3.00	
SINK	3	2.0	6.0	1.5	1.5	2.0	4.50	6.00	
DISHWASHING MACHINE	1	2.0	2.0		1.4	1.4	1.40	1.40	
WASHING MACHINE	2	3.0	6.0	2.25	2.25	3.0	4.50	6.00	
SHOWER	5	2.0	10.0	1.5	1.5	2.0	7.50	10.00	
FLOOR DRAIN	10	2.0	20.0						
TOTAL LOAD (FIXTURE UNITS)			77.00	TOTAL LOAD (FIXTURE UNITS)			27.65	96.90	
				TOTAL DEMAND (GPM)			22	65	
MINIMUM LINE SIZE		4"		MINIMUM LINE SIZE			1"	2"	
APPLIED LINE SIZE		4"		APPLIED LINE SIZE			(3) 3/4"	2"	

NOTES:

- LINE SIZES SHOWN FOR TYPE "L" COPPER. PEX SIZES WILL INCREASE FROM PLAN SIZES.
- TOTAL DEMAND AND LINE SIZES NOT SHOWN FOR HOT WATER BECAUSE DEMAND IS DISTRIBUTED AMONG THREE WATER HEATERS.

PLUMBING PIPING INSULATION TABLE						
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
DOMESTIC WATER	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	COLD 1/2" OR LESS COLD 3/4" – 3" HOT 1 1/2" OR LESS HOT > 1 1/2" HW RECIRCULATION	1/2" 1" 1" 1.5" 1"	-
	UNCONDITIONED SPACE	PREFORMED GLASS FIBER	ASJ	ALL	1 1/2"	R-VALUE: 6.5 MINIMUM
FLOOR DRAINS, TRAPS & WASTE PIPING 10" FROM DRAIN RECEPTOR	BUILDING ENVELOPE	PREFORMED GLASS FIBER	ASJ	ALL	1"	USE ONLY ON DRAINS RECEIVING CONDENSATE SUBJECT TO SWEAT

NOTES:

- ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

WATER PIPING IDENTIFICATION TABLE				
SYMBOL	CLASSIFICATION	LABEL COLOR SCHEME (LETTERING / BACKGROUND)	PIPE LABEL	INSULATION COLOR
----	DOMESTIC COLD WATER	WHITE / GREEN	DOMESTIC COLD WATER	WHITE
----	DOMESTIC HOT WATER	WHITE / GREEN	DOMESTIC HOT WATER	WHITE
----	DOMESTIC HOT WATER	WHITE / GREEN	DOMESTIC HW RETURN	WHITE
OUTSIDE DIAMETER OF PIPE OR COVERING	SIZE OF LETTERS	LENGTH OF BACKGROUND	PIPE LABELS SHALL MEET ASME (ANSI) A13.1-2007 STANDARD & NCPG AND BE MARKED AS FOLLOWS: 1. STANDARD AND BE MARKED AS FOLLOWS: - ADJACENT TO ALL VALVES AND FLANGES - AT BOTH SIDES OF FLOOR OR WALL PENETRATIONS - ADJACENT TO CHANGES IN DIRECTIONS - EVERY 25' INTERVALS ON STRAIGHT RUNS - (EVERY 20' MAXIMUM FOR RECLAIM WATER) - READILY VISIBLE TO PERSONNEL FROM POINT OF APPROACH - WITH DIRECTION OF FLOW ARROWS INDICATED	
3/4" TO 1-1/4"	1/2"	8" MIN.		
1-1/2" TO 2"	3/4"	8" MIN.		
2-1/2" TO 6"	1-1/4"	12" MIN.		
8" TO 10"	2-1/2"	24" MIN.		

GREASE INTERCEPTOR LOAD

GREASE INTERCEPTOR IS SIZED ACCORDING TO RATE OF FLOW (GPM). THE RATED CAPACITY (LBS) IS LISTED AT 2X THE FLOW.

KITCHEN SINK (SK-1A)
BOWL (2) 14"x16"x8" = 3584 CU IN
3584 CI / 231 = 15.5 GPM
15.5 GPM x 0.75 = 11.6 GPM
(10 GPM FLOW RESTRICTOR PROVIDED)

PLUMBING SPECIALTIES SCHEDULE				
MARK	DESCRIPTION	MANF.	REFERENCE MODEL NO.	NOTES
FCO	ADJUSTABLE FLOOR CLEANOUT WITH BRONZE PLUG	MIFAB	C1220-1-34B-P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP
FCO-2	WHEEL TRAFFIC FLOOR CLEANOUT WITH BRONZE PLUG	MIFAB	C1220-4-34B-P-XR	SEE PLANS FOR SIZES, HEAVY DUTY TOP
COG	CLEANOUT ON GRADE WITH BRONZE PLUG	MIFAB	C1220-1-34B-P	SEE PLANS FOR SIZES, NICKEL BRONZE TOP
COG-2	WHEEL TRAFFIC CLEANOUT ON GRADE WITH BRONZE PLUG	MIFAB	C1220-4-34B-P-XR	SEE PLANS FOR SIZES, HEAVY DUTY TOP
WCO	WALL CLEANOUT WITH BRONZE PLUG & S.S. COVER	MIFAB	C1430-RD	SEE PLANS FOR SIZES
WHA	WATER HAMMER ARRESTOR	PPP	SWA (PDI SIZE)	
FD-1	AREA FLOOR DRAIN	MIFAB	F1100-C-5"-1-6-7-P (5" ROUND STRAINER)	
FD-2	ICE MACHINE HUB DRAIN WITH SS RAISED LIP	MIFAB	F1100-C-ER-7"-28 (7" ROUND STRAINER)	
FS-1	FLOOR SINK WITH BUCKET & 3/4 GRATE	MIFAB	FS1730-5-175-P	CAST IRON/PORCELAIN COATED
SD-1	SHOP FLOOR DRAIN W/SEDIMENT BUCKET	MIFAB	F1480-4-5-P (12"x12" REMOVABLE GRATE)	CAST IRON/EPOXY COATED & HD TRACTOR GRATE
UB-1	UTILITY BOX – ICE MAKER	OATEY	39152	INCLUDES WATER HAMMER ARRESTOR
UB-2	UTILITY BOX – WASHING MACHINE (FIRE RATED)	OATEY	38478	INCLUDES WATER HAMMER ARRESTORS
MV-1	THERMOSTATIC MIXING VALVE (SEIPOINT: 110°F)	LEONARD	270-LF-SW-BY (1/2" INLET/OUTLET)	7.5 GPM @ 20 PSI PRESSURE DROP
MV-2	THERMOSTATIC MIXING VALVE (SEIPOINT: 110°F)	LEONARD	TM-26-LF (3/4" INLET/OUTLET & 1 GPM MIN)	15 GPM @ 20 PSI PRESSURE DROP
EXP-1	WATER HEATER EXPANSION TANK	A.O. SMITH	PMC-2 (2 GALLON)	
EXP-2	WATER HEATER EXPANSION TANK	A.O. SMITH	PMC-5 (4.4 GALLON)	
PRV	HIGH CAPACITY WATER PRESSURE REDUCING VALVE	WATTS	LF2235	SET PRESSURE AT 60 PSI
BFP-1	BACKFLOW PREVENTER (RP2) – DOMESTIC WATER	WATTS	LF009M2QT-S-1 1/2"	PROVIDED WITH HEATED ENCLOSURE
BFP-2	BACKFLOW PREVENTER – ICE MACHINE	WATTS	SD2-MF-3/8"	
FHB-1	FRETLESS WALL FAUCET WITH BACKFLOW PROTECTION	WOODFORD	27	PROVIDE WITH METAL HANDLE
HB-1	WALL FAUCET WITH ANTI-SIPHON PROTECTION	WOODFORD	24 (CHROME)	PROVIDE WITH POLYCARBONATE HANDLE
HB-2	WALL FAUCET WITH BACKFLOW PROTECTION	WOODFORD	26-BR (ROUGH BRASS)	PROVIDE WITH METAL HANDLE OPTION
TD-1	LINEAR TRENCH DRAIN	LUXE	C1220-4-34B-P-XR	ADA THRESHOLD COMPLIANT GRATE SPACING

PLUMBING FIXTURE SCHEDULE						
FIX. NO.	DESCRIPTION	CW	HW	DRAIN	FAUCETS, VALVES & ACCESSORIES	NOTES
WC-1	WATER CLOSET FLUSH VALVE TYPE, FLOOR MOUNTED, ELONGATED LOW-CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8" MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M NON-ADA (+/-14" RIM HEIGHT)	1"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER MANUAL FLUSH VALVE: EQUAL TO SLOAN REGAL 111 SEAT: SELF-SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	
WC-1A	WATER CLOSET FLUSH VALVE TYPE, FLOOR MOUNTED, ELONGATED LOW-CONSUMPTION (1.6 GPF) FULLY GLAZED 2 1/8" MIN. BALL PASS TRAPWAY MEETS ASME A112.19.2M & 19.6M ADA (+/-17" RIM HEIGHT)	1"		3"	FIXTURE BY: AMERICAN STANDARD, SLOAN OR KOHLER MANUAL FLUSH VALVE: EQUAL TO SLOAN REGAL 111 SEAT: SELF-SUSTAINING WITH OPEN FRONT LESS COVER MATERIAL: VITREOUS CHINA COLOR: WHITE	FLUSH HANDLE SHALL BE ON RIGHT HAND OR LEFT HAND AS REQUIRED TO MEET ADA (SEE DETAIL)
UR-1A	URINAL MANUAL FLUSH VALVE TYPE, WALL MOUNTED, WASHOUT ULTRA LOW-CONSUMPTION (0.5 GPF) MEETS ASME A112.19.2M & 19.6M ADA & NON-ADA APPLICATIONS	3/4"		1 1/2"	FIXTURE BY: AMERICAN STANDARD, SLOAN, KOHLER MANUAL FLUSH VALVE: EQUAL TO SLOAN REGAL 186-0.5-SF SUPPORT: EQUAL TO ZURN Z1222 MATERIAL: VITREOUS CHINA COLOR: WHITE	REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS
LA-1A	WALL HUNG LAVATORY WHITE 20"x18" WITH BACK & SIDE SPLASH SHIELDS CHROME SINGLE LEVER FAUCET (0.5 GPM AERATOR) MEETS ASME A112.19.2M ADA & NON-ADA APPLICATIONS	3/8"	3/8"	1 1/4"	FIXTURE BY: AMERICAN STANDARD MURRO 0954.004EC (4" CENTERSET), SLOAN OR KOHLER FAUCET: EQUAL TO DELTA 523LF-HGMHDF (4" CENTERSET) STRAINER: MCGUIRE 155A MATERIAL: VITREOUS CHINA SINK AND KNEE SHROUD WALL CARRIER: ZURN Z1231 OR Z1231-D SHROUD: AMERICAN STANDARD 0059.020EC (VITREOUS CHINA)	- REFER TO ARCHITECTURAL DWGS FOR SPECIFIC MOUNTING HEIGHTS - PROVIDE WITH 3/8" BRAIDED STAINLESS LAVATORY RISERS (MCGUIRE SSLAV)
SK-1	DOUBLE COMPARTMENT UTILITY SINK (55 1/2" X 27 1/2") 14 GA., 304 STAINLESS STEEL 15"x24"x14" COMPARTMENTS LEFT 24" DRAINBOARD	3/4"	3/4"	2"	EQUAL TO ELKAY SS8230L FAUCET: T&S B-0291 (18"L SWING NOZZLE) STRAINER: LK27 (LEVER HANDLE)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH PROVIDE WITH REAR DRAIN
SK-1A	DOUBLE BOWL UNDERMOUNT SINK (31" X 18" X 5.5) 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SOUND DEADENING COATING SINGLE LEVER FAUCET WITH SPRAYER (1.0 GPM AERATOR) ADA COMPLIANT	1/2"	1/2"	1 1/2"	FIXTURE BY: JUST, ELKAY OR MOEN FAUCET: EQUAL TO MOEN S72608 (1-HOLE) STRAINER: REMOVABLE BASKET	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH PROVIDE WITH REAR DRAIN
SK-2A	SINGLE BOWL SINK (22" X 21" X 5.5") 18 GAUGE TYPE 304, 18-8 STAINLESS STEEL SOUND DEADENING COATING SIDES AND BOTTOM SINGLE LEVER FAUCET WITH SPRAYER (1.5 GPM AERATOR) ADA COMPLIANT	1/2"	1/2"	1 1/2"	FIXTURE BY: ELKAY, JUST, KOHLER OR MOEN FAUCET: EQUAL TO DELTA 400LF-HDF STRAINER: MCGUIRE 151A RISER: 3/8" BRAIDED STAINLESS (MCGUIRE SSLAV)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH PROVIDE WITH REAR DRAIN
SK-3	DOUBLE COMPARTMENT UTILITY SINK (55 1/2" X 27 1/2") 14 GA., 304 STAINLESS STEEL 15"x24"x14" COMPARTMENTS LEFT 24" DRAINBOARD	3/4"	3/4"	2"	EQUAL TO ELKAY SS8230L FAUCET: T&S B-0291 (18"L SWING NOZZLE) STRAINER: LK27 (LEVER HANDLE)	LISTED SIZES INDICATE SIDE TO SIDE DIMENSION X FRONT TO BACK DIMENSION X DEPTH PROVIDE WITH REAR DRAIN
DF-1A	ELECTRIC WATER COOLER WITH BOTTLE FILLER (FILTERED) DUAL LEVEL, WALL MOUNT WITH STAINLESS STEEL FINISH ADA COMPLIANT	3/8"		1 1/4"	EQUAL TO ELKAY LZSTLBWSSP BUBBLER: FLEXI-GUARD ANTI-MICROBIAL SAFETY TYPE CABINET FINISH: STAINLESS STEEL OPTION ELECTRICAL: 4 AMPS @ 120V/1PH	PROVIDE WITH CANE APRON OPTION IN NON-RECESSED APPLICATIONS.
MS-1	MOP SINK SERVICE BASIN (24"Wx24"Lx10"D) WHITE MOLDED-STONE	1/2"	1/2"	3"	EQUAL TO FIAT MSB-2424 PROVIDE WITH STAINLESS STEEL BUMPER GUARDS, MOP BRACKET, HOSE & HOSE BRACKET AND STAINLESS STEEL WALL GUARDS	
SH-1A	SHOWER BUILT-IN TILE ENCLOSURE BY G.C. HAND-HELD SHOWER WITH ADJUSTABLE SLIDE BAR (1.5 GPM) ADA COMPLIANT	1/2"	1/2"	2"	VALVE & TRIM: EQUAL TO DELTA T13H153-20 (R-10000-UNWS) (WITH METAL HOSE) DRAIN: EQUAL TO ZURN ZN-415-2"-W/TYPE "B" STRAINER-5" ACCESSORIES SUCH AS PAN, GRAB BARS, SEAT, CURTAIN ROD, CURTAIN, ETC. PROVIDED BY G.C.	SEE PLANS TO DETERMINE RH OR LH CONFIGURATION. ADJUST STOP TO LIMIT MAX TEMPERATURE TO 110°F
SH-2	SHOWER (SMOOTH WITH MOLDED TOILETRY SHELVES) ACRYLIC (EXT. DIM. 36"Wx36"Dx75"H) HAND-HELD SHOWER WITH ADJUSTABLE SLIDE BAR (1.5 GPM) NON-ADA COMPLIANT	1/2"	1/2"	2"	EQUAL TO AQUATIC 1363CM VALVE & TRIM: EQUAL TO DELTA T13H123 PROVIDE WITH PAN & BRASS CENTER DRAIN CURTAIN ROD & CURTAIN BY G.C. COLOR SELECTED BY ARCHITECT	
GI-1	10 GPM HYDROMECHANICAL GREASE INTERCEPTOR 20 LBS GREASE CAPACITY (23"Lx17"x12.5"D) HDPE INJECTION MOLDED BODY AND LID			2"	EQUAL TO MIFAB LIL-10 GASKETED AND SKID-PROOF LID FLOW CONTROL: INTERNAL STAINLESS STEEL 10 GMP ORIFICE FLOW CONTROL PLATE REMOVABLE BAFFLE ASSEMBLY EXTENSIONS FOR REQUIRED DEPTH	
OS-1	OIL/WATER SEPARATOR HEAVY TRAFFIC RATED – AASHTO H20 (20,000 LBS) FLOW RATE: 75 GPM; OIL CAPACITY: 118 GALLONS			4"	EQUAL TO MIFAB BIG 750-0	MATERIALS & INSTALLATION SHALL MEET ALL REQUIREMENTS OF CITY/COUNTY FOG PROGRAM (SEE DETAILS)



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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



REVISIONS:		
#	DESC:	DATE

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

PLUMBING NOTES

P4.02

STATEMENT FOR SPECIAL INSPECTIONS:

PROJECT: MAYSVILLE FIRE STATION
LOCATION: MAYSVILLE, NORTH CAROLINA
PME ENGINEERING FIRM: ENTECH ENGINEERING

THE SITE CLASSIFICATION AS DEFINED BY THE IBC IS "D". THE SEISMIC DESIGN CATEGORY IS "C" BASED ON BUILDING OCCUPANCY CATEGORY IV. – ESSENTIAL FACILITIES.

THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL SERVICES APPLICABLE TO THIS PROJECT. IT INCLUDES REQUIREMENTS FOR SEISMIC RESISTANCE AND/OR REQUIREMENTS FOR WIND RESISTANCE.

THE SPECIAL INSPECTION COORDINATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTIONS REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND REGISTERED DESIGN PROFESSIONAL. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

THE FREQUENCY OF INSPECTIONS, EITHER CONTINUOUS OR PERIODIC, SHALL BE MADE IN ACCORDANCE WITH SECTION 1704 OF THE NORTH CAROLINA BUILDING CODE.

INTERIM REPORTS SHALL BE SUBMITTED MONTHLY TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL. THE REPORTS SHALL INCLUDE THE DAILY OBSERVATION REPORTS AND A SUMMARY OF THE ACTIVITIES COMPLETED AND/OR IN PROGRESS THAT ARE RECEIVING SPECIAL INSPECTIONS. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

THE MINIMUM QUALIFICATIONS OF SPECIAL INSPECTOR SHALL BE DONE BY AN APPROVED TESTING AGENCY MEETING THE REQUIREMENTS OF THE IBC SECTION 1703 AND ADTM-E329.

THE BUILDING OFFICIAL IS AUTHORIZED TO APPROVE SPECIAL INSPECTORS WHO HAVE DOCUMENTED RELEVANT EXPERIENCE AND ARE PROGRESSING TOWARDS ACHIEVING THE MINIMUM QUALIFICATIONS.

THE STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES THE FOLLOWING DISCIPLINES:

- PLUMBING

THE CONTRACTOR SHALL INCLUDE SEISMIC REQUIREMENTS FOR THE FOLLOWING SYSTEMS AND COMPONENTS:

- WATER HEATERS (RESTRAINT SYSTEM & FLEX GAS CONNECTION)
- WATER DISTRIBUTION PIPING

STATEMENT OF SPECIAL INSPECTIONS REQUIREMENTS OF WIND RESISTANCE

BASIC WIND SPEED (3 SECOND GUST): 140 MPH

WIND EXPOSURE CATEGORY: "C"

DESCRIPTION OF MAIN WIND FORCE-RESISTING COMPONENTS SUBJECT TO SPECIAL INSPECTION FOR WIND RESISTANCE:

- N/A

STATEMENT OF SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE

THE SITE CLASSIFICATION: "D"

DESCRIPTION OF SEISMIC SYSTEMS SUBJECT TO PERIODIC SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:

- WATER HEATERS (RESTRAINT SYSTEM & FLEX GAS CONNECTION)
- WATER DISTRIBUTION PIPING

CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OR FABRICATION OF A SYSTEM OR COMPONENT DESIGNATED ABOVE MUST SUBMIT A STATEMENT OF RESPONSIBILITY.

PLUMBING LEGEND		
SYMBOL	ABBR	DESCRIPTION
---	CW	COLD WATER LINE
----	HW	HOT WATER LINE
-----	HWR	HOT WATER RETURN LINE
=====	W	SOIL OR WASTE LINE
-----	VT	VENT LINE
	AAV	AIR ADMITTANCE VALVE
	VTR	VENT THRU ROOF
	WCO	WALL CLEANOUT
	FCO	FLOOR CLEANOUT
	COG	CLEANOUT ON GRADE
	FD	ROUND FLOOR DRAIN
	FS	FLOOR SINK
	HB	HOSE BIB/HYDRANT
	FHB	FROSTPROOF HOSE BIB/HYDRANT
	WA	WATER ARRESTOR (PDI SIZE "A")
	A	COMPRESSED AIR PIPING
	G	GAS PIPING
	C	CONDENSATE PIPING
	-	CHECK VALVE
	-	SHUTOFF VALVE
	-	GAS COCK
	PRV	PRESSURE REDUCING VALVE
	REG	PRESSURE REGULATOR
	BFP	BACKFLOW PREVENTER
	BWV	BACKWATER VALVE
	RV	PRESSURE RELIEF VALVE
	STR	STRAINER
	STR	STRAINER WITH BLOW OFF
	-	UNION
	-	THERMOMETER
	PG	PRESSURE GAUGE WITH COCK
	RP	RECIRCULATION PUMP
	SP	SUMP PUMP
	-	CONCENTRIC REDUCER
	-	FLOW DIRECTION ARROW
	-	FIXTURE MARK (SEE SCHEDULE)
	-	NEW/EXISTING CONNECTION
	G.C.	GENERAL CONTRACTOR
	P.C.	PLUMBING CONTRACTOR
	M.C.	MECHANICAL CONTRACTOR
	E.C.	ELECTRICAL CONTRACTOR
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	BFG	BELOW FINISHED GRADE

- PLUMBING NOTES:
- PLUMBING PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE PLUMBING SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A COMPLETE AND OPERATING SYSTEM.
 - CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF PLUMBING INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES. THE EXACT LOCATION AND DETAILS OF EQUIPMENT MAY REQUIRE DEVIATIONS FROM PLANS AS THEY ARE DIAGRAMMATIC. DRAWINGS ALLOW FOR SHOWING SYMBOLS AND MULTIPLE PIPES TO PRINT CLEARLY. MATERIALS SHALL BE INSTALLED THAT ALLOW FOR EASY ACCESS, MAINTENANCE, AND OVERALL GOOD QUALITY OF WORK.
 - ALL WORK SHALL COMPLY WITH LOCAL, STATE & ADA CODES, AS WELL AS FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS/GUIDELINES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
 - BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE OF ANY DEVIATIONS.
 - PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
 - COORDINATE CONNECTION OF PLUMBING SYSTEMS WITH SITE UTILITIES AND SERVICES. P.C. SHALL EXTEND WATER SUPPLY LINE 5- FEET OUTSIDE OF BUILDING AND EXTEND BUILDING DRAIN 10- FEET OUTSIDE OF BUILDING & PROVIDE 2- WAY CLEANOUT.
 - COORDINATE VENT THRU ROOF (VTR) LOCATIONS WITH OUTSIDE AIR INTAKES OF HVAC UNITS TO MAINTAIN A MINIMUM CLEARANCE OF 20 FEET. VTR SHALL BE LOCATED ON REAR OF PITCHED ROOF BUILDINGS.
 - CONTRACTOR SHALL COORDINATE LOCATION & TYPE OF VTR BOOTS WITH G.C.. CONTRACTOR SHALL FURNISH & INSTALL THE REQUIRED BOOTS. G.C. SHALL ENGAGE ROOFING CONTRACTOR TO ASSURE WEATHER- TIGHTNESS OF INSTALLATION. ANY EXPOSED PVC PIPING SHALL BE PAINTED WITH 2- COATS OF LATEX PAINT – COLOR SELECTED BY ARCHITECT.
 - COORDINATE INSTALLATION OF PLUMBING LINES WITH BLOCK WALLS SO THAT ALL LINES ARE PLACED WITHIN WALLS DURING WALL CONSTRUCTION. CUTTING AND PATCHING OF WALLS IN PLACE IS NOT PERMITTED.
 - DRAIN, WASTE & VENT (DWV) PIPING SHALL BE ASTM D 2865, SOLID- WALL, SCHEDULE 40 PVC WITH SOLVENT- WELDED SOCKET TYPE FITTINGS (FOAM CORE PIPING IS NOT ACCEPTABLE). INSTALL PVC PIPE AND FITTINGS IN STRICT ACCORDANCE WITH THE INSTALLATION RECOMMENDATIONS OF THE PIPE AND FITTINGS MANUFACTURER, APPENDIX X1 OF ASTM D2265 AND FOR BURIED PIPE ASTM D2321. SUCH INSTRUCTIONS SHALL INCLUDE BUT ARE NOT LIMITED TO CUTTING, SOLVENT CEMENTING AND PRIMING, JOINTS, CONNECTIONS, TRANSITIONS, ALIGNMENT AND GRADE, TRENCHING, BEDDING, BACKFILL AND COMPACTION, SUPPORTS AND SPACING AND ALLOWANCE FOR THERMAL EXPANSION. PER NCP 306.2.4, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.
 - ABOVE GRADE/SLAB WATER PIPING SHALL BE ASTM B 88, HARD DRAWN, TYPE L COPPER WITH SOLDERED, BRAZED WROUGHT- COPPER FITTINGS OR VIEGA PROGRESS FITTINGS.
 - BELOW GRADE/SLAB WATER PIPING (INSIDE OF BUILDING) SHALL BE ASTM B 88, SOFT ANNEALED, TYPE K COPPER WITH SOLDERED OR BRAZED WROUGHT- COPPER FITTINGS. MINIMIZE JOINTS BELOW SLAB.
 - DOMESTIC WATER SERVICE PIPING: (SEE SITE PLANS).
 - PC SHALL PROVIDE WATER SERVICE PRESSURE REDUCING VALVE (PRV) IF SERVICE PRESSURE IS FOUND TO BE GREATER THAN 60 PSI. PRV SHALL BE HIGH CAPACITY TYPE. SEE DETAIL FOR LOCATION. (SET INITIAL PRESSURE AT 60 PSI).
 - WATER PIPE & FITTINGS AND LEAD FREE SOLDER & FLUX SHALL BE IN ACCORDANCE WITH NC PLUMBING CODE SECTION 605.
 - INDIVIDUAL SUPPLY AND DRAIN CONNECTIONS SIZES ARE NOT INDICATED ON PLANS FOR CLARITY. SIZE EACH TO SUIT RESPECTIVE FIXTURE.
 - HOT WATER RE- CIRCULATION PIPING SHALL BE ROUTED WITHIN 12" HORIZONTALLY OF THE VERTICAL PIPE FEEDING THE FIXTURE.
 - WATER PIPING ON OUTSIDE WALLS AND IN CEILING SHALL BE LOCATED BETWEEN BUILDING INSULATION AND CONDITIONED SPACE.
 - PROVIDE SHUTOFF VALVES AT EACH MAIN BRANCH LINE. VALVES SHALL BE INSTALLED IN A READILY ACCESSIBLE LOCATION. PROVIDE CEILING ACCESS DOORS WHERE REQUIRED TO ACCESS SERVICEABLE VALVES LOCATED ABOVE GYPBOARD CEILINGS.
 - UNLESS NOTED OTHERWISE ALL VALVES SHALL BE FULL PORT BRONZE OR BRASS BALL VALVES WITH THREADED OR SWEAT CONNECTIONS AS APPLICABLE TO THE CONNECTING PIPING.
 - PROTECT COPPER PIPING FROM DIRECT CONTACT WITH MASONRY OR DISSIMILAR METAL. HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER PLATED OR PROVIDED WITH ELECTROLYTIC ISOLATION MATERIAL ON COPPER PIPING. ALL OTHER HANGERS AND SUPPORTS SHALL BE PAINTED OR GALVANIZED. PIPING PASSING THROUGH CONCRETE/ MASONRY WALLS OR FLOORS SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY PROTECTIVE SHEATHING OR WRAPPING.
 - INSTALL SCHEDULE 80 PVC OR DUCTILE IRON PIPE SLEEVE TWO SIZES LARGER AT PENETRATIONS THROUGH OR UNDER FOOTINGS OR FOUNDATION WALLS. SEAL SLEEVE TIGHT TO FOUNDATION WALL.
 - INSTALL UL LISTED FIRE- RATED ASSEMBLY AT PENETRATIONS THROUGH FIRE- RATED WALLS, FLOORS AND CEILINGS.
 - PROVIDE MECHANICAL WATER HAMMER ARRESTORS AS SHOWN ON PLANS, WATER RISER, OR AS REQUIRED BY SYSTEM.
 - PROVIDE INSULATION EQUAL TO MCGUIRE PROWRAP ON P- TRAP ASSEMBLIES AND HOT & COLD WATER PIPING FOR LAVATORIES WITH EXPOSED PIPING.
 - VERIFY FINAL LOCATIONS FOR ROUGH- INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
 - INSTALL PLUMBING FIXTURES AND EQUIPMENT LEVEL & PLUMB. ROUTE PIPING PARALLEL & PERPENDICULAR TO OTHER BUILDING SYSTEMS AND COMPONENTS. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MFG'S WRITTEN INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS. NO EQUIPMENT OR DEVICE SHALL BE INSTALLED ABOVE AN INACCESSIBLE CEILING CAVITY. IF SUCH ITEMS ARE REQUIRED TO BE INSTALLED ABOVE DRYWALL CEILINGS, PROVIDE AN ACCESS PANEL SIZED AND LOCATED TO PROVIDE SUFFICIENT ACCESS. SUBMIT LAYOUT OF ALL REQUIRED ACCESS PANELS FOR ARCHITECTS REVIEW AND APPROVAL PRIOR TO THE ONSET OF INSTALLATION.
 - ALL FIXTURES & EXPOSED SURFACES SHALL BE WASHED & CLEANED AND PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
 - DWV AND WATER DISTRIBUTION PIPING SHALL BE TESTED IN ACCORDANCE WITH NC PLUMBING CODE SECTION 312.
 - POTABLE WATER PIPING SHALL BE PURGED AND DISINFECTED. FLUSH SYSTEM WITH CLEAN, POTABLE WATER. ISOLATE AND FILL SYSTEM WITH WATER/ CHLORINE SOLUTION WITH AT LEAST 200 PPM OF CHLORINE. ALLOW TO STAND FOR THREE HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL CHLORINE SOLUTION IS REMOVED. SUBMIT WATER SAMPLE REPORT TO AUTHORITY HAVING JURISDICTION.
 - CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 408.2.5.2 INCLUDING EQUIPMENT BASIC SUBMITTAL DATA, CONTROL INFORMATION, MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS. DESIRED OR FIELD- DETERMINED SET POINTS SHALL BE PERMANENTLY RECORDED ON THE DEVICE.
 - GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1- YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.
 - COORDINATE LOCATIONS AND CONNECTION SIZES OF WASTE AND WATER LINES WITH KITCHEN EQUIPMENT SUPPLIER. P.C. SHALL MAKE ALL FINAL CONNECTIONS.



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MAYSVILLE FIRE STATION

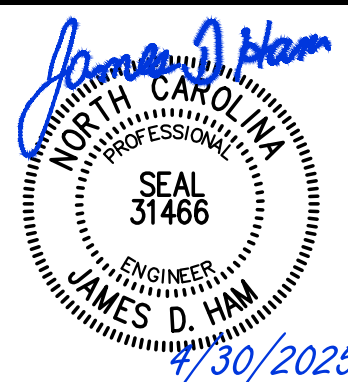
603 4TH STREET

MAYSVILLE, NC 28555



P.O. BOX 11527 NC LIC #: C-1132
GOLDSBORO, NC 27532
TEL: (919) 778-9064

PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



REVISIONS:		
#	DESC:	DATE

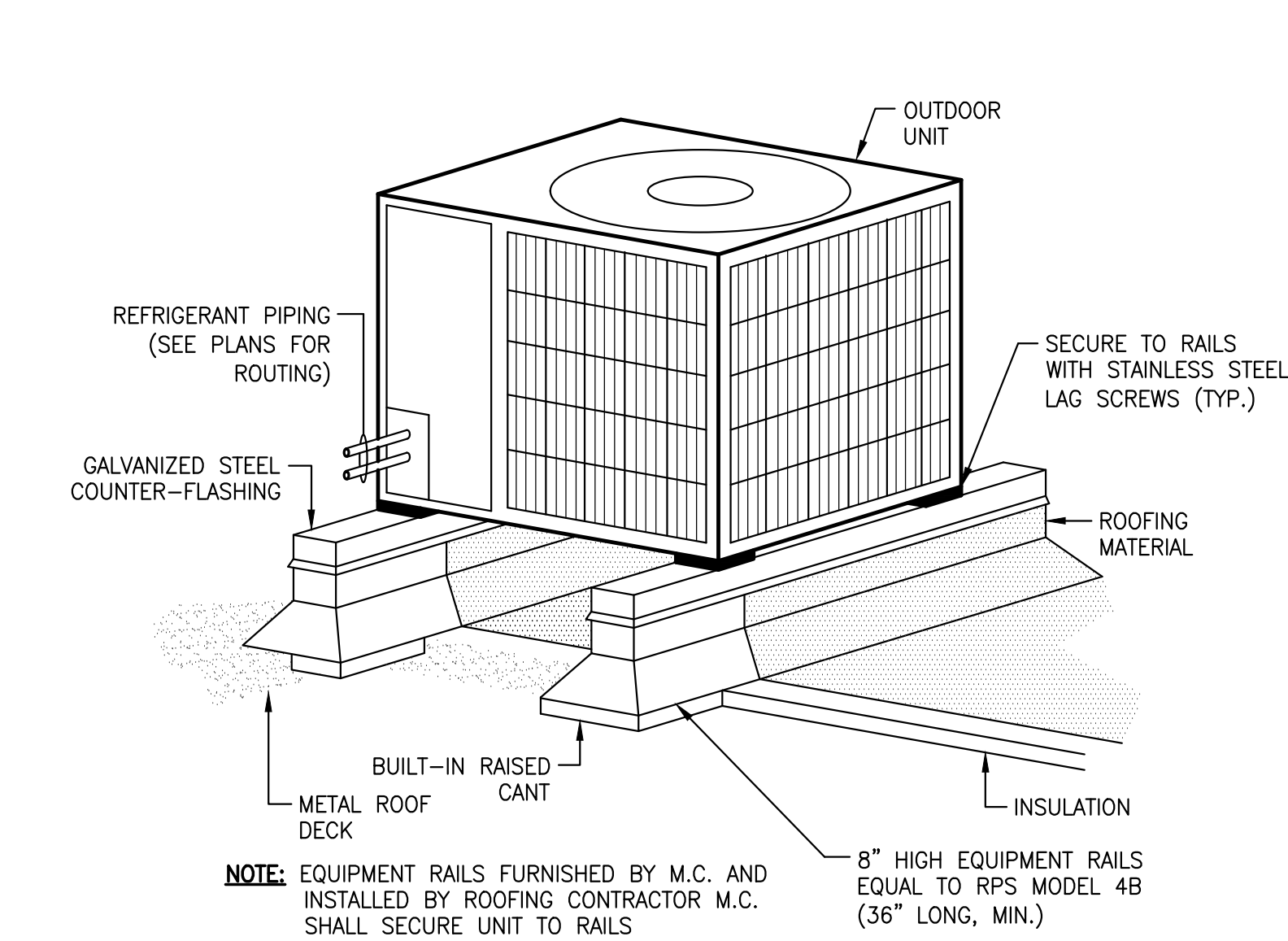
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ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

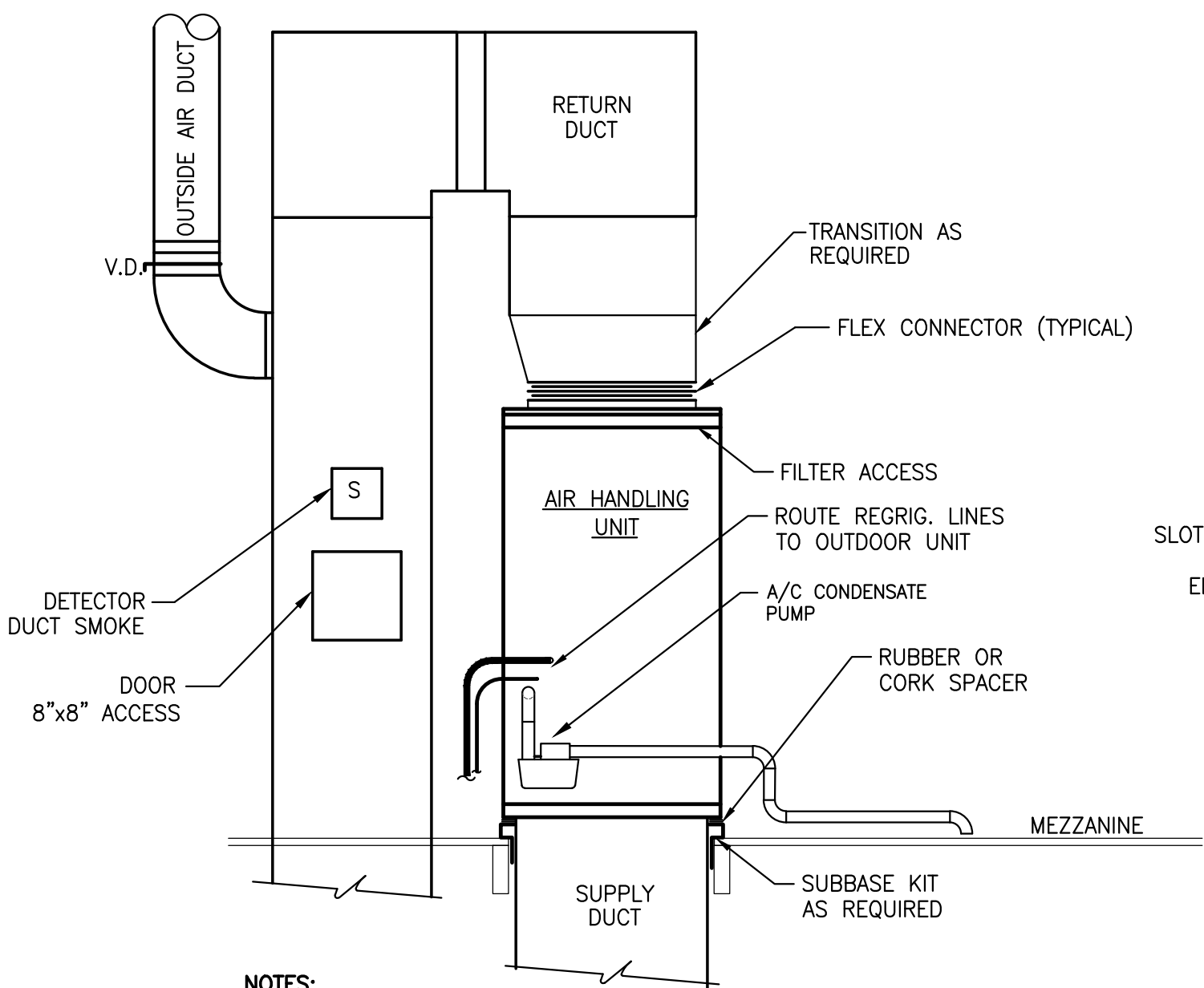
SHEET NAME & NUMBER

MECHANICAL DETAILS

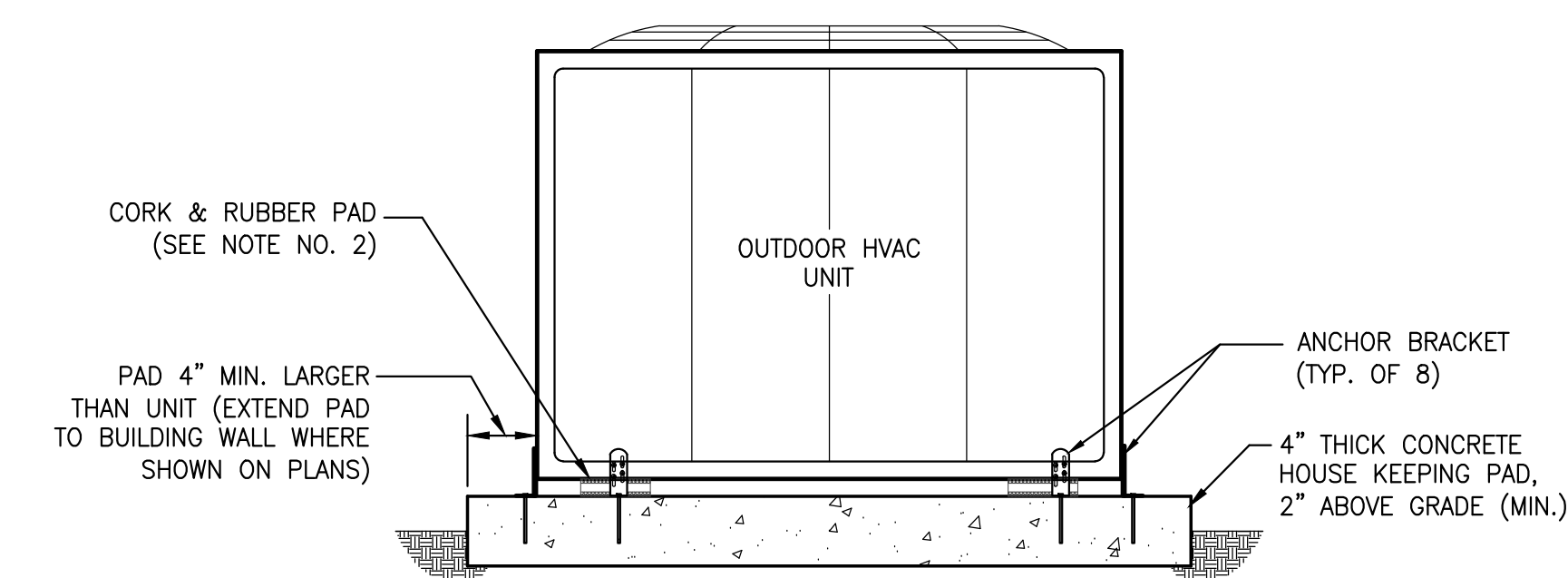
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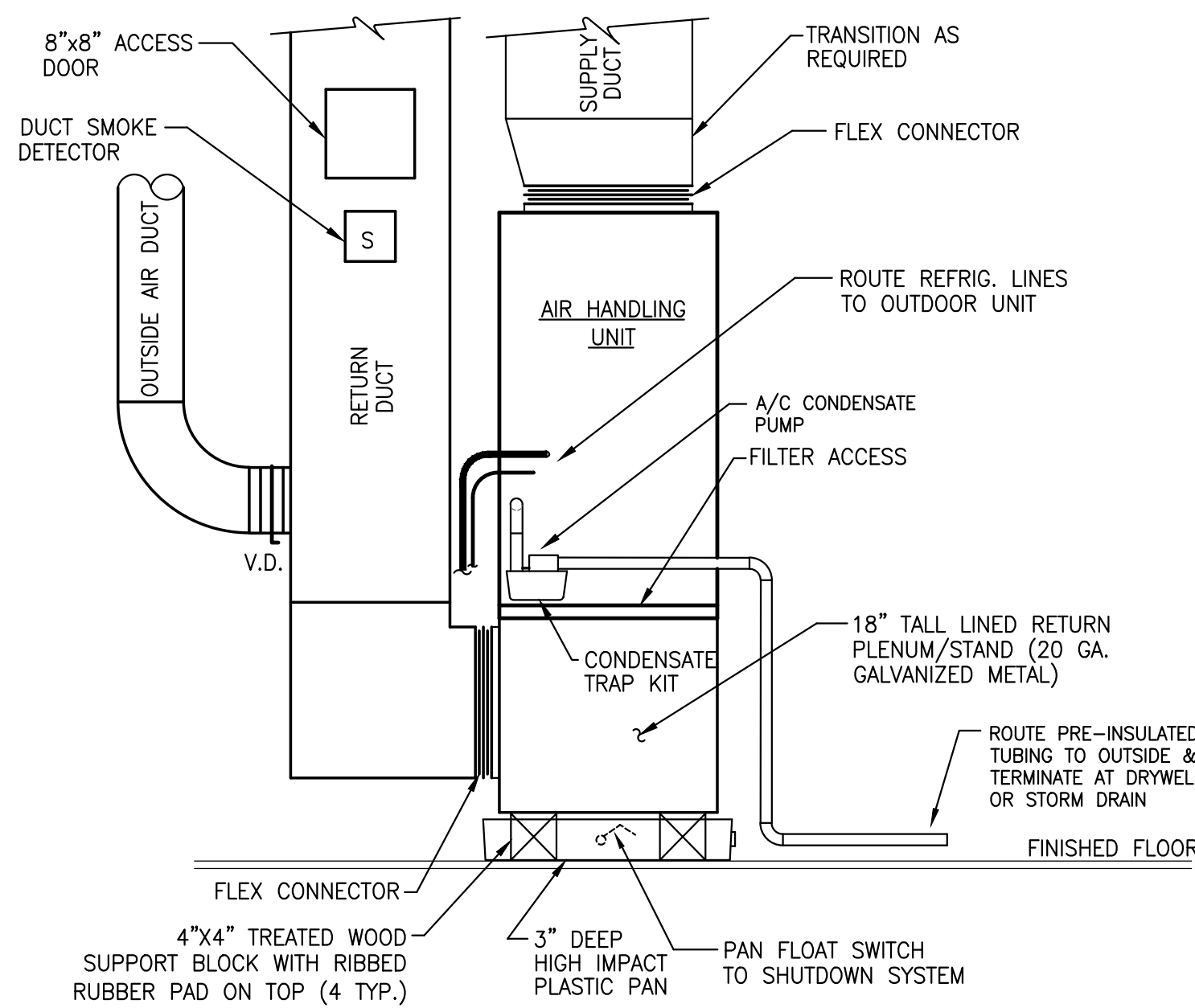
1 ROOF MOUNTED HVAC UNIT DETAIL
SCALE: N.T.S.



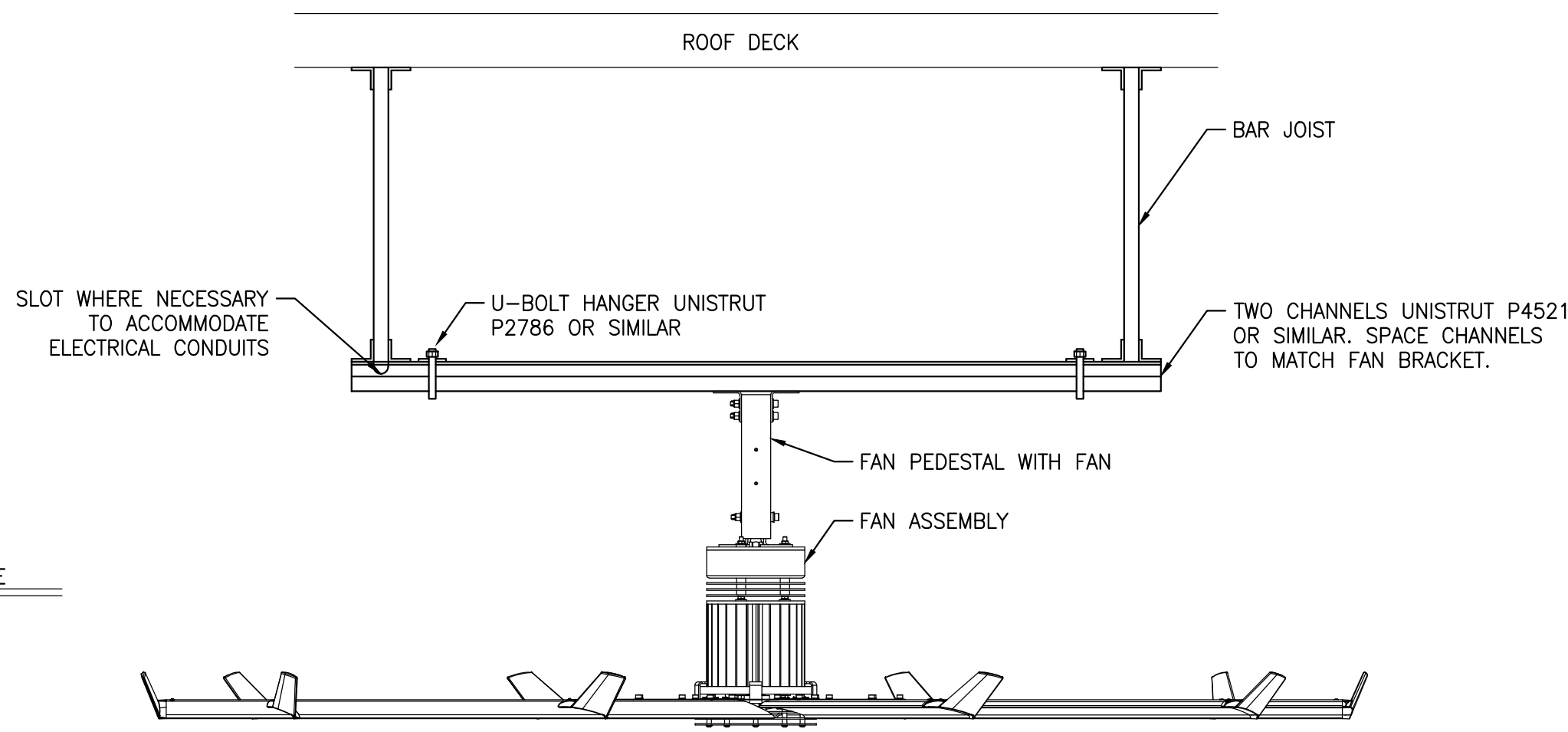
5 VERTICAL MOUNTED AIR HANDLING (AH-4) ON MEZZANINE UNIT DETAIL
SCALE: N.T.S.



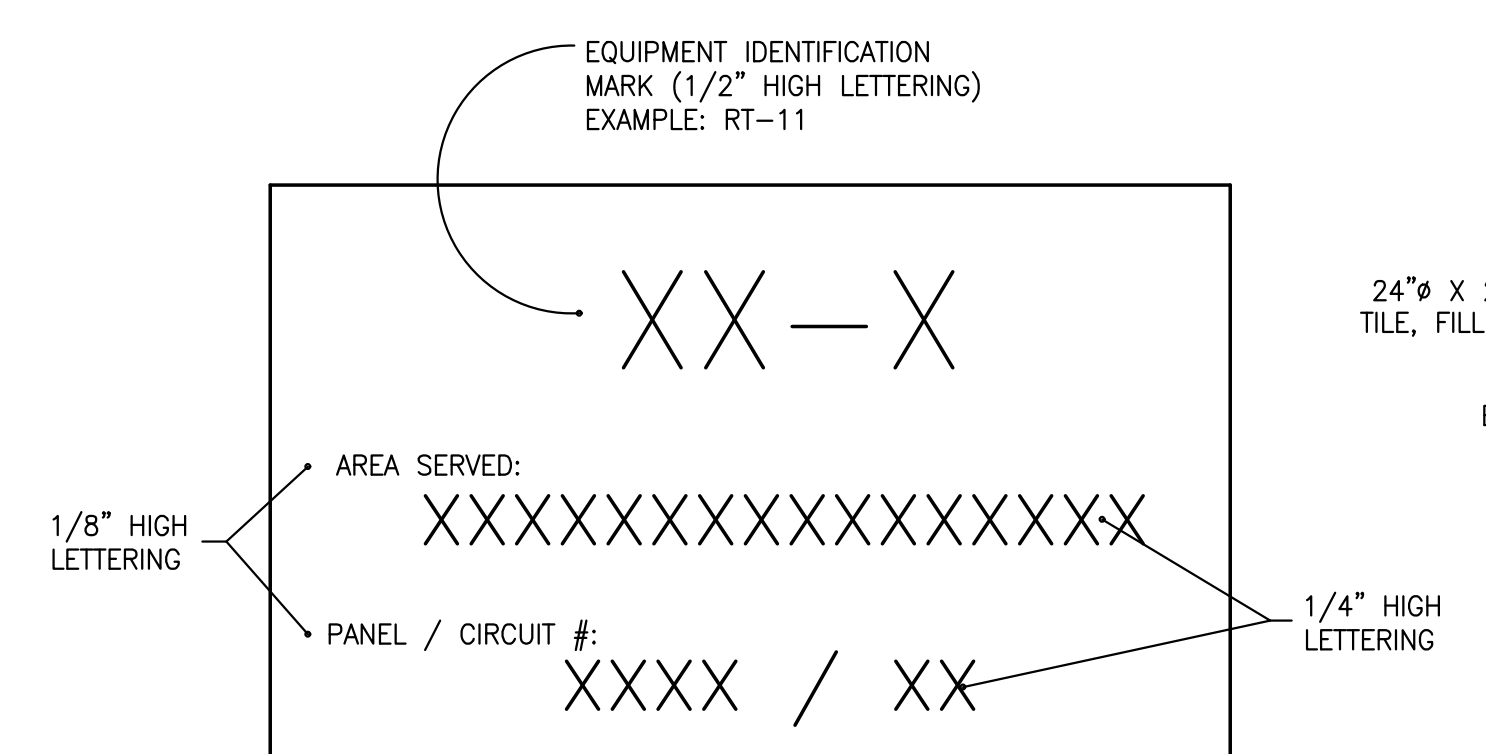
9 OUTDOOR HVAC UNIT DETAIL
SCALE: N.T.S.



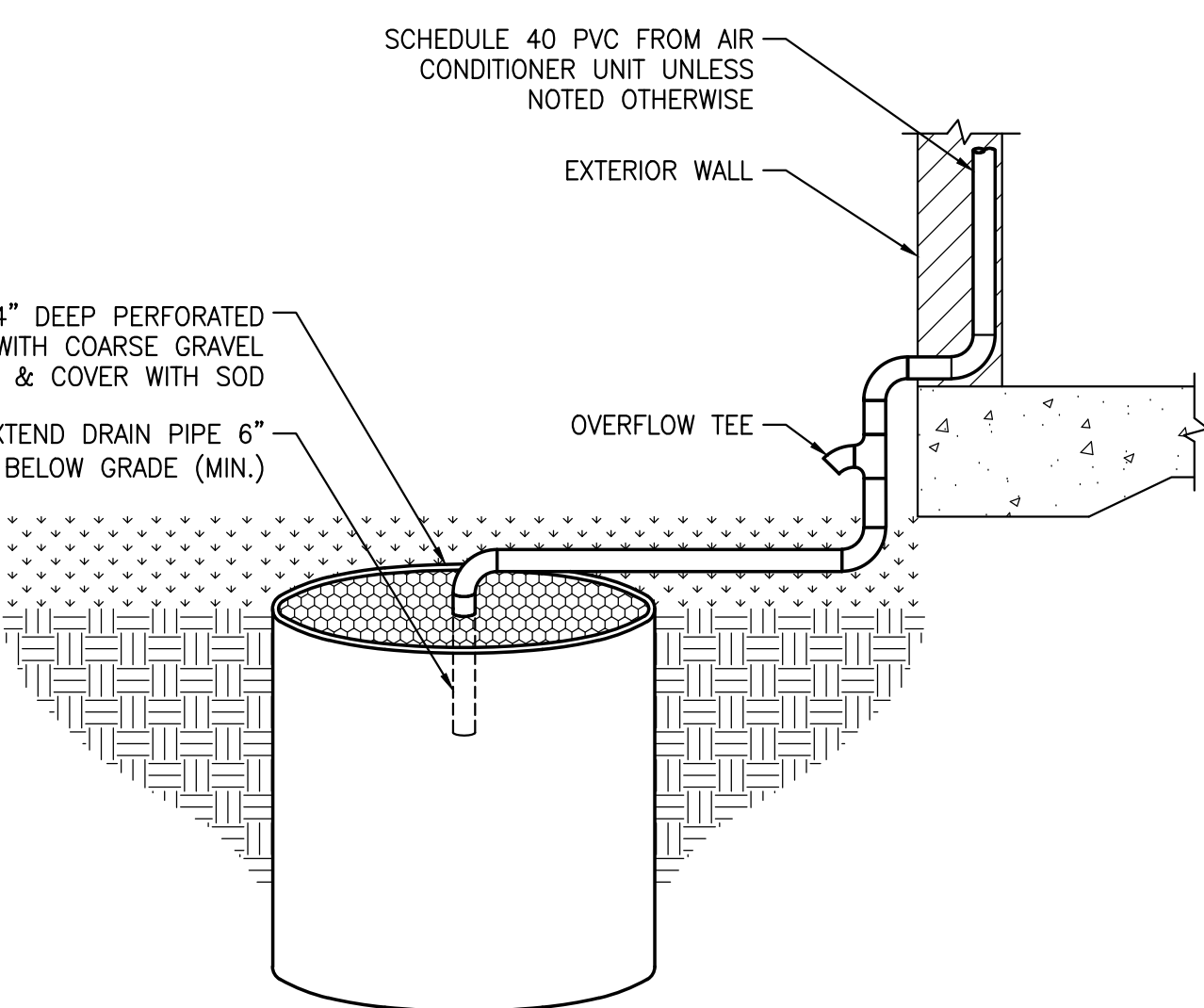
2 VERTICAL MOUNTED AIR HANDLING UNIT DETAIL
SCALE: N.T.S.



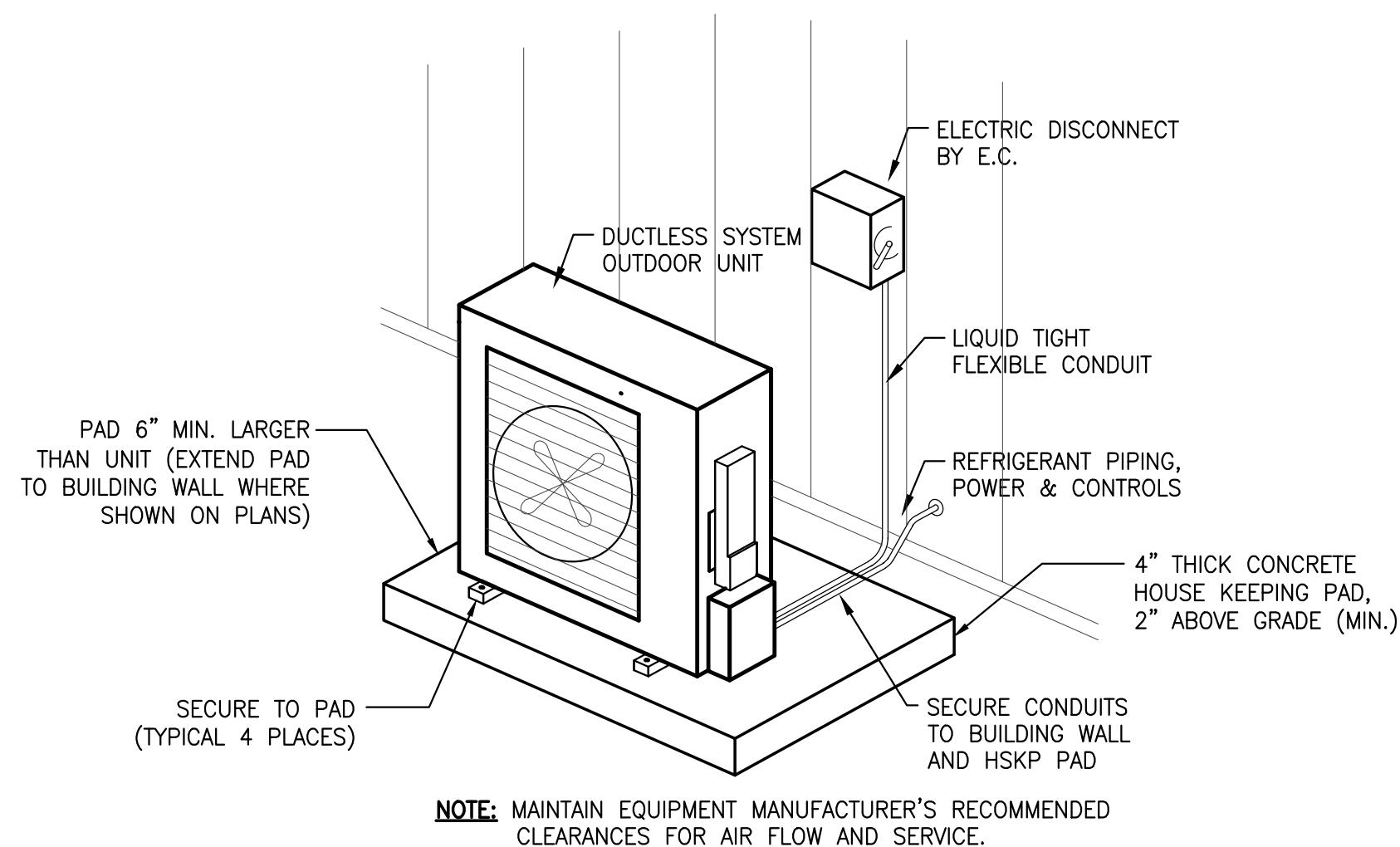
6 CIRCULATION FAN DETAIL
SCALE: N.T.S.



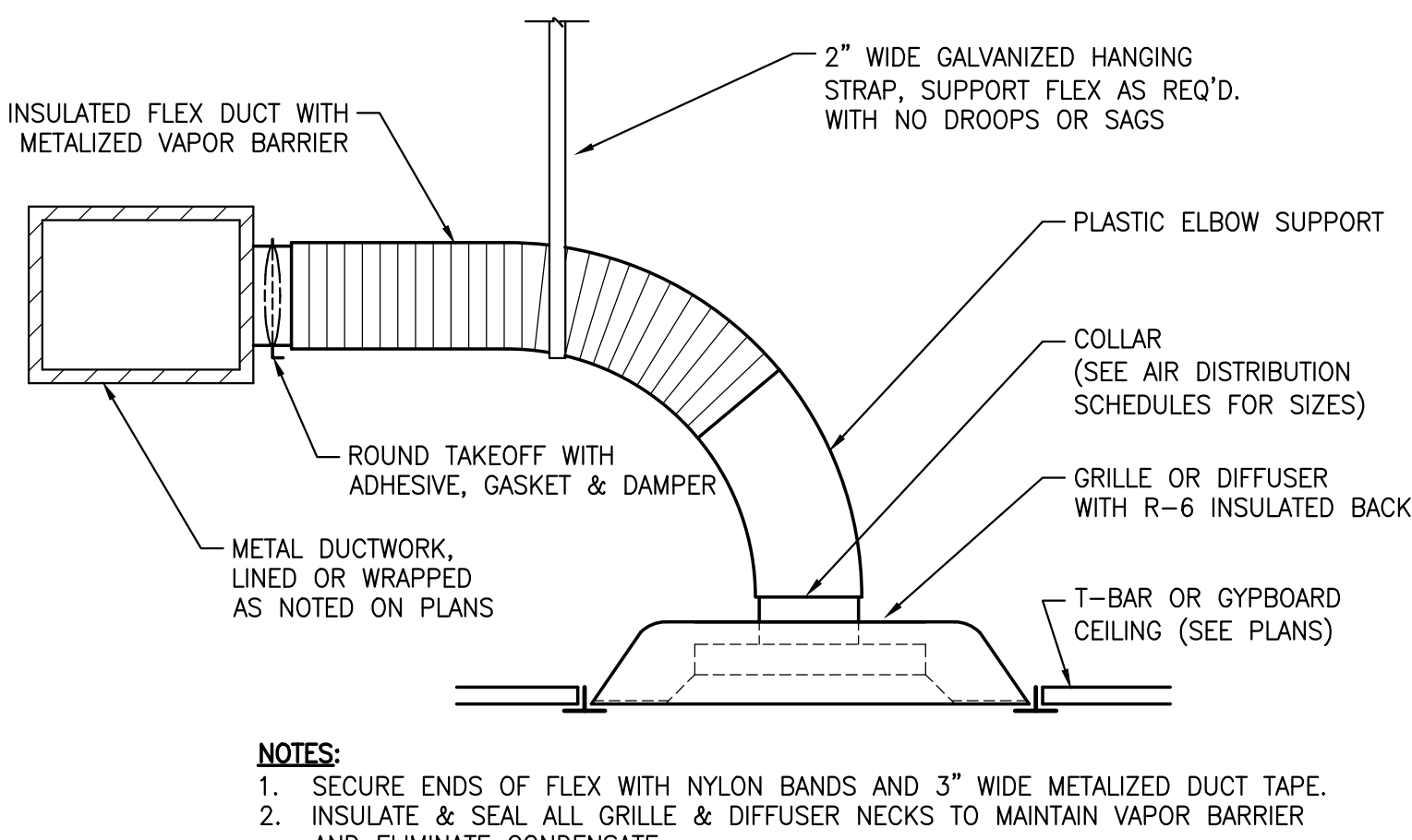
10 EQUIPMENT IDENTIFICATION LABELS DETAIL
SCALE: N.T.S.



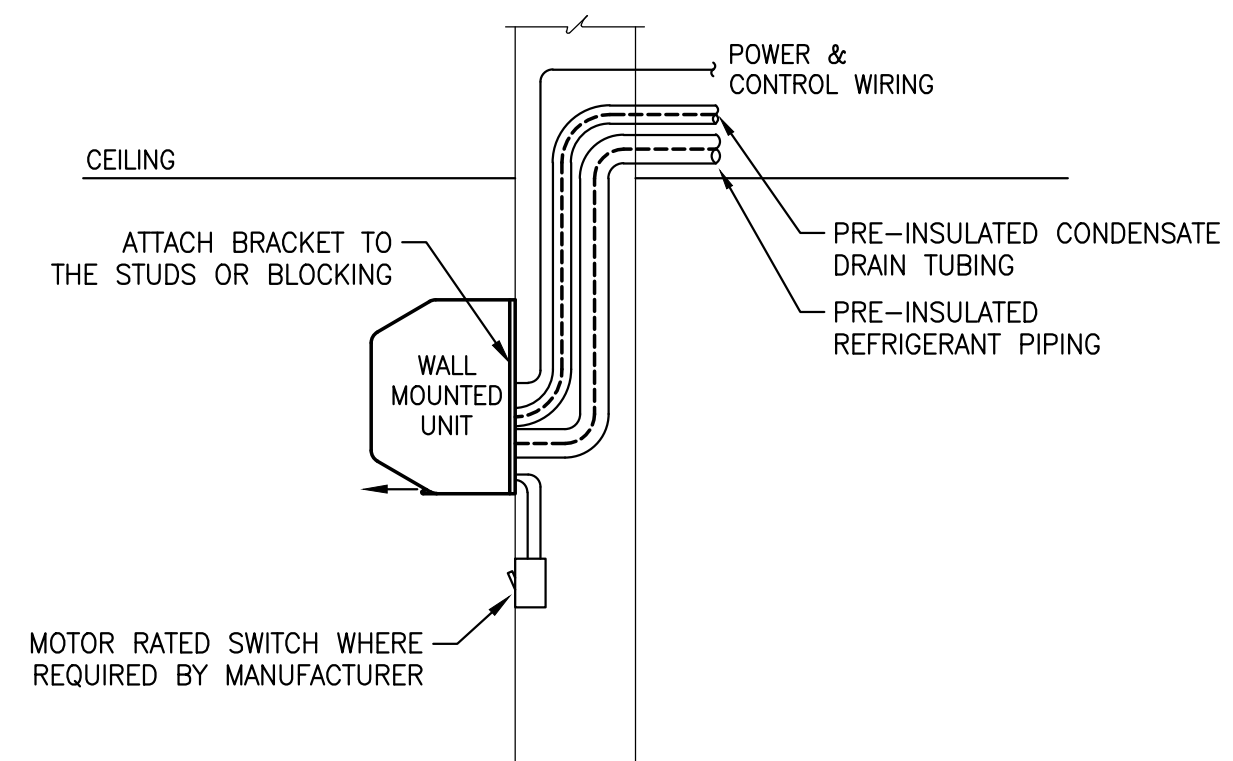
11 DRYWELL (FRENCH DRAIN) DETAIL
SCALE: N.T.S.



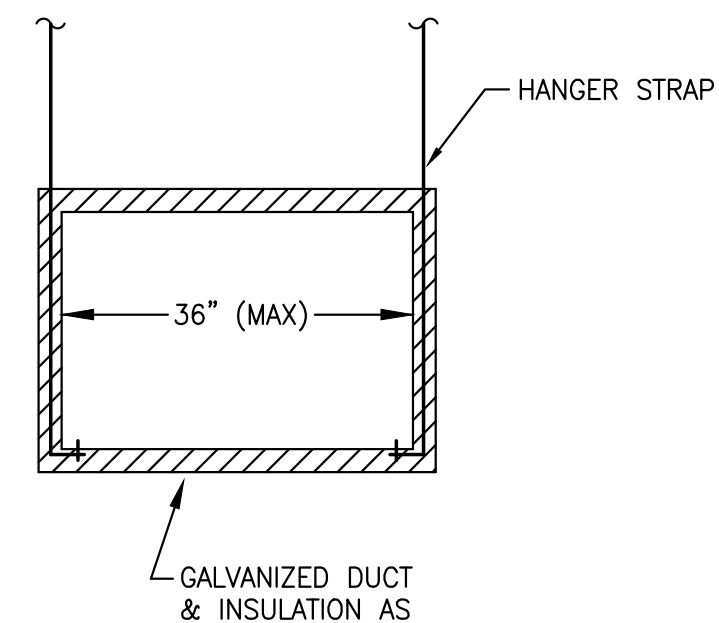
3 PAD MOUNTED CONDENSING UNIT DETAIL (DUCTLESS UNIT)
SCALE: N.T.S.



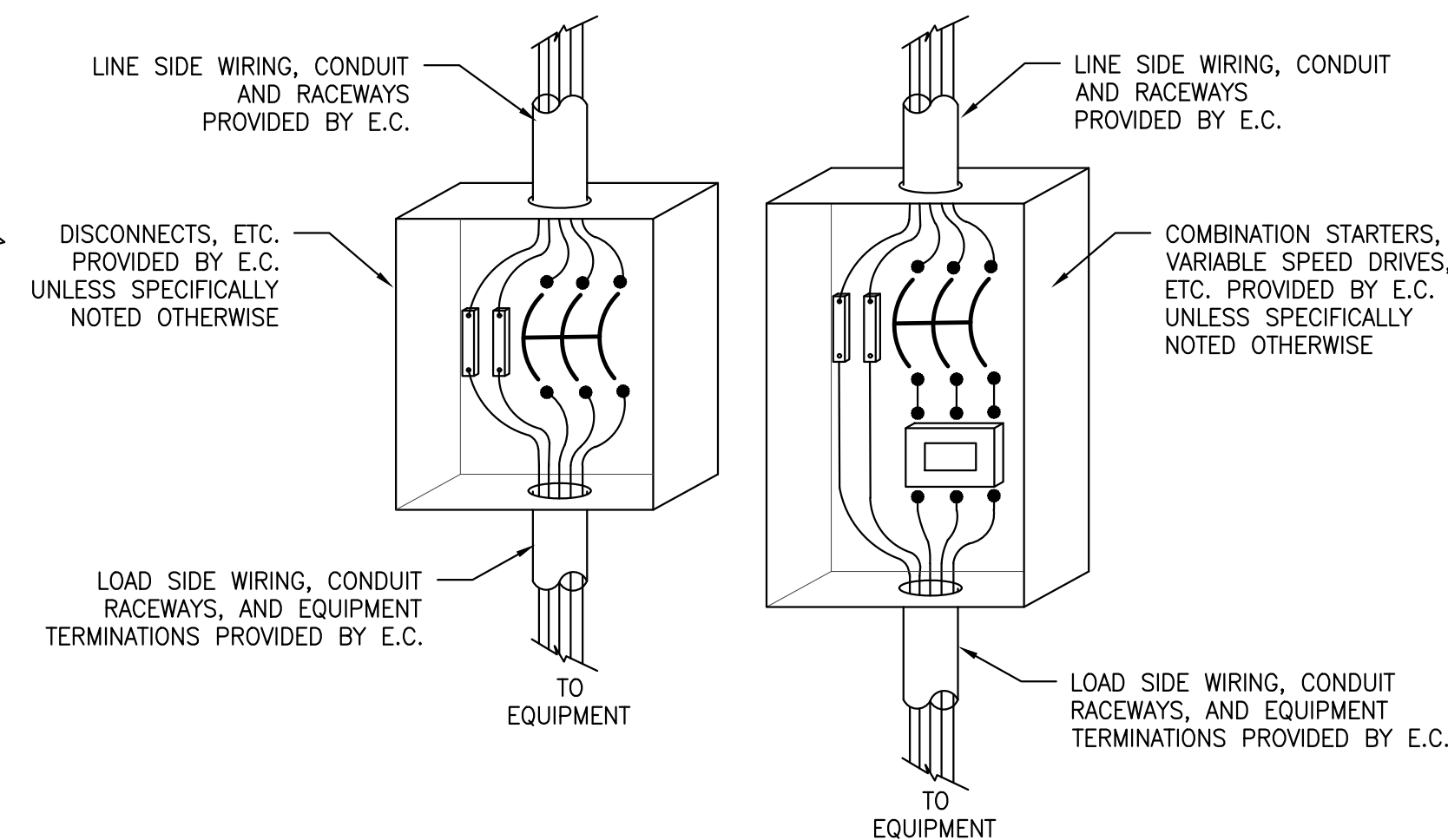
7 AIR DISTRIBUTION DETAIL
SCALE: N.T.S.



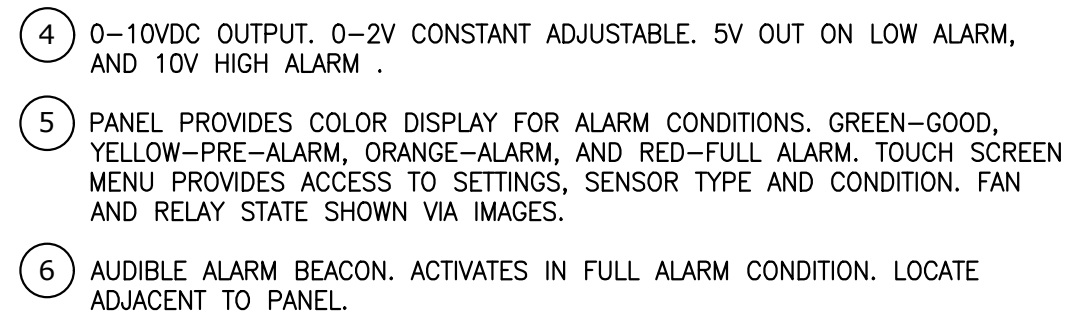
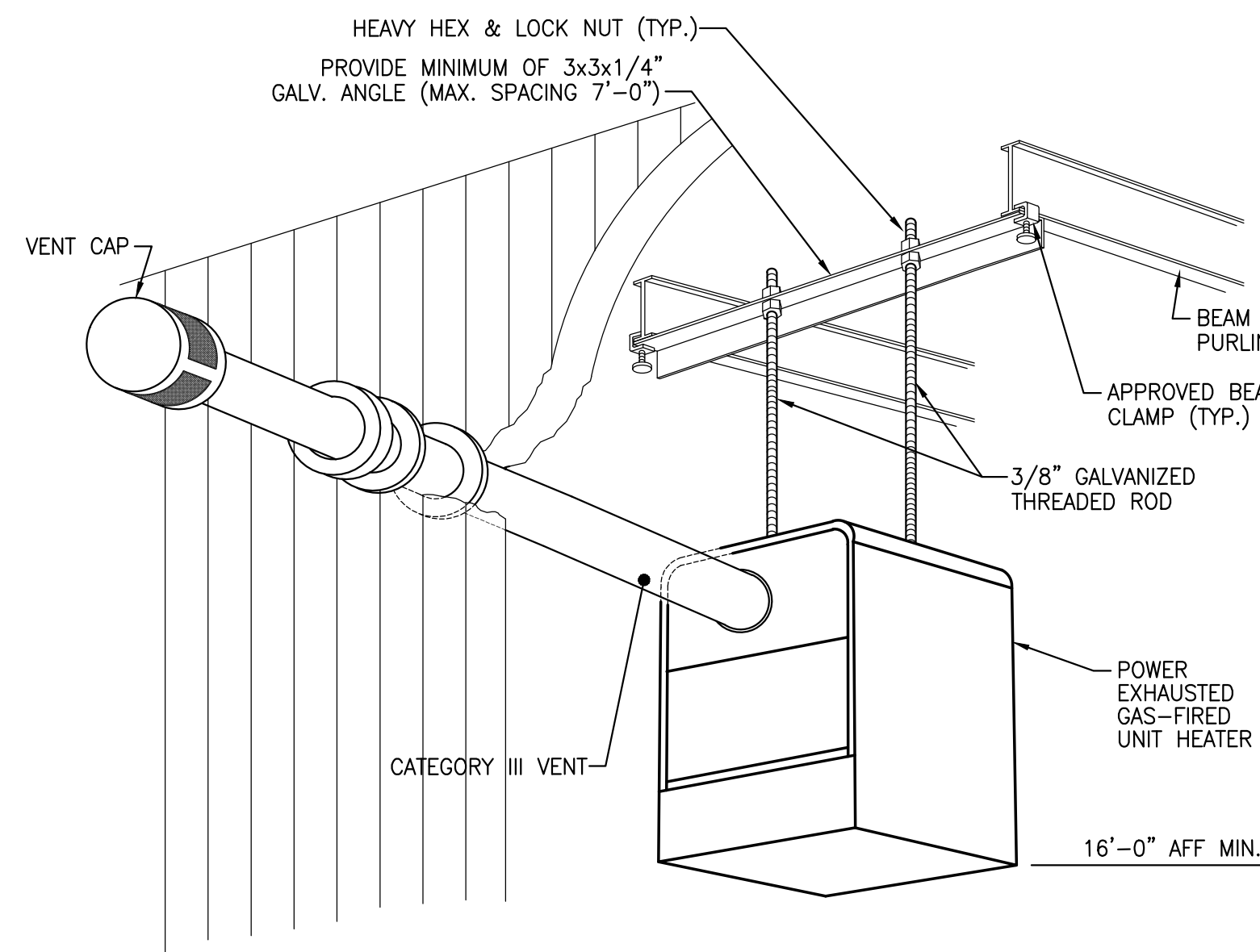
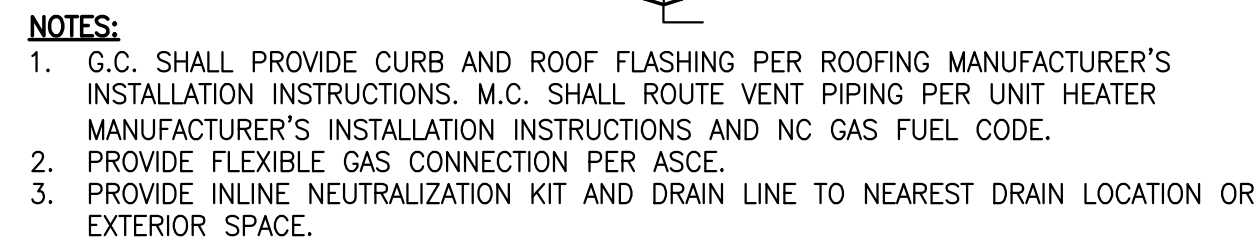
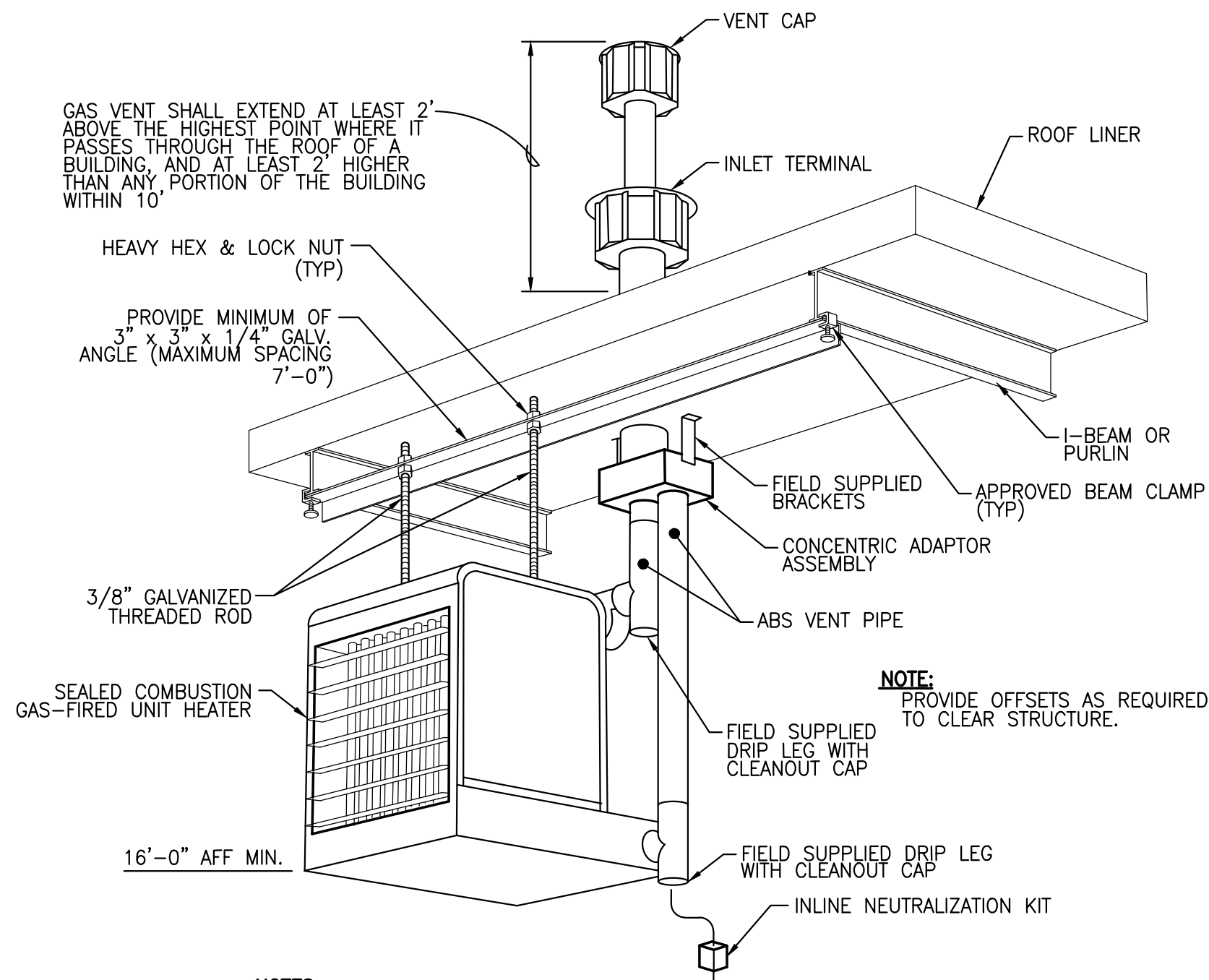
4 WALL MOUNTED UNIT (DUCTLESS UNIT) DETAIL
SCALE: N.T.S.



8 TRAPEZE HANGER DETAIL
SCALE: N.T.S.



12 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.



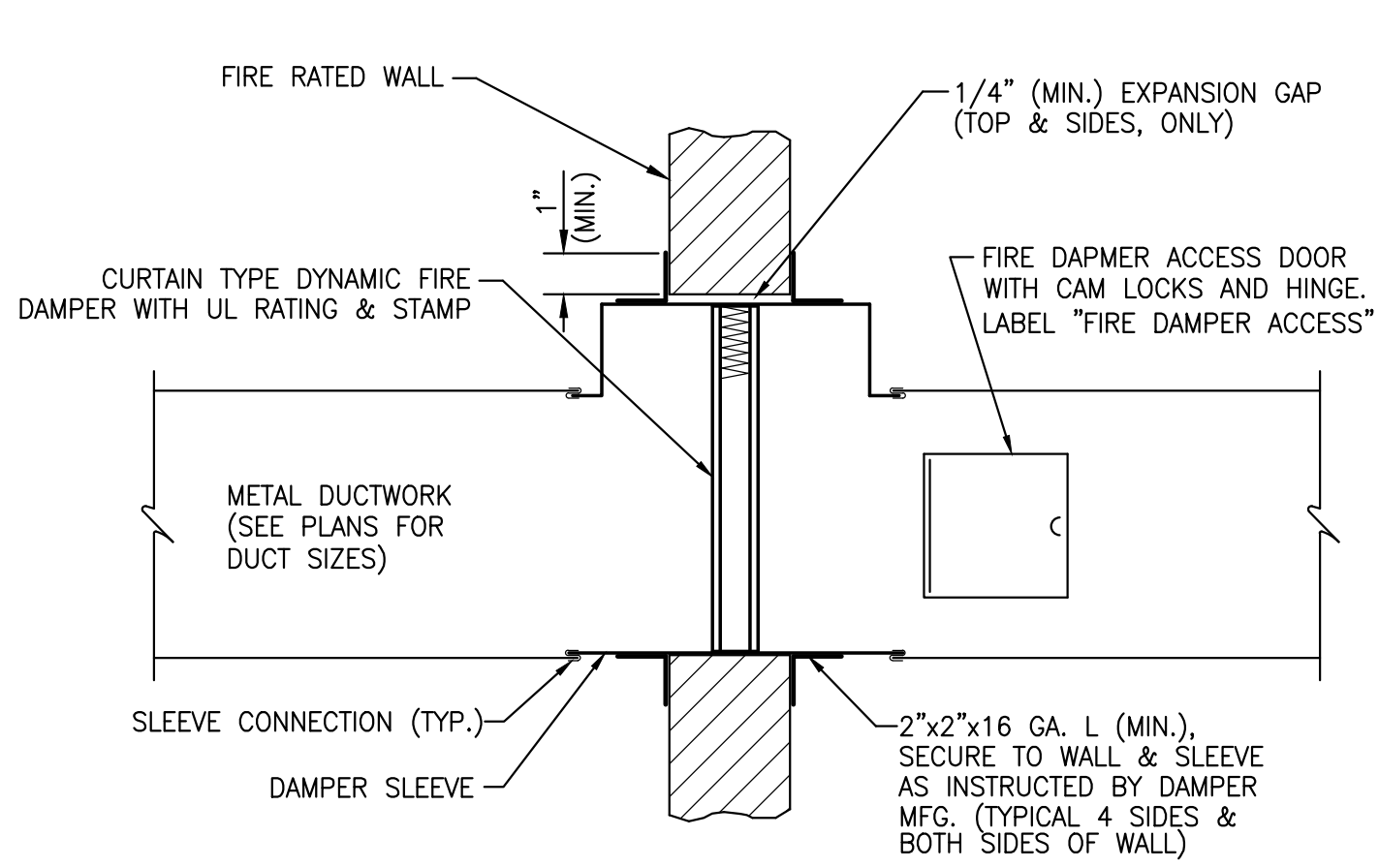
SEQUENCE OF OPERATION

- NORMAL WHEN GASES REMAIN BELOW 25 PPM CO AND/OR 0.7 PPM NO₂, 0-10V OUTPUT WILL SEND OV OR 2V.
- ALARM 1. WHEN GASES ARE >25PPM CO AND/OR >0.7PPM NO₂, 0-10V OUTPUT WILL SEND 5V TO THE VFD, AND OPENS MOTORIZED DAMPERS. WHEN LEVELS OF GAS DROPS BELOW ALARM 1 THRESHOLDS, CONTROL PANEL SIGNALS EF(S) TO STOP AND CLOSES MOTORIZED DAMPERS.
- ALARM 2. WHEN GASES ARE >100PPM CO AND/OR >2PPM NO₂, 0-10V OUTPUT WILL SEND 10V TO EF(S) VFD AND DAMPER SHALL REMAIN OPEN, THE CONTROL PANEL SHALL INDICATE THE ALARM LEVEL WITH A VISUAL AND AUDIBLE ALARM.
- IF ALARM LEVEL 2 CONTINUES TO EXIST FOR A DESIRED AMOUNT OF TIME (5-25MIN ADJ.) THE CONTROL PANEL SHALL SIGNAL A REMOTE AUDIBLE AND VISUAL ALARM BEACON TO SOUND. THIS CONDITION REQUIRES A MANUAL RE-SET OF THE SYSTEM TO PLACE IT BACK INTO NORMAL OPERATION.

NOTES:

1. G.C. SHALL PROVIDE FLASHING PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. M.C. SHALL ROUTE VENT PIPING PER UNIT HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND N.C. FUEL GAS CODE.
2. THIS DETAIL APPLIES TO HEATER LOCATED IN STORAGE ROOM 116.

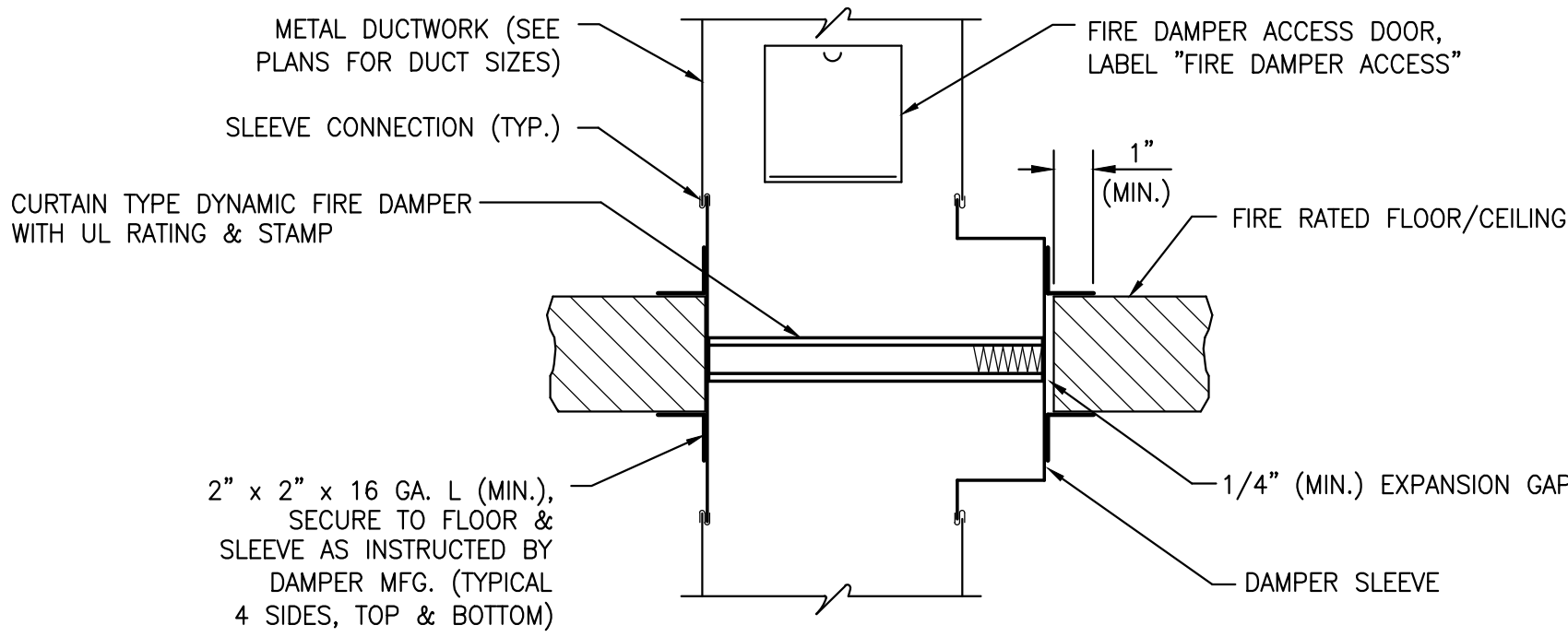
5 UNIT HEATER INSTALLATION WITH SIDE WALL VENTING DETAIL
SCALE: N.T.S.



NOTES:

1. THIS DETAIL IS GENERIC FOR GENERAL GUIDANCE ONLY.
2. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. APPLY SEALANT EQUAL TO DOW CORNING 999 AROUND RETAINING ANGLES & SLEEVE CONNECTIONS.
4. PROVIDE 2" THICK WRAP INSULATION AROUND EXPOSED DAMPER SLEEVE TO PREVENT CONDENSATION.
5. DYNAMIC DAMPER SHALL BE TESTED, COSTRUCTED AND LABELED IN ACCORDANCE WITH UL STANDARD 555. DAMPER SHALL HAVE A FIRE RATING OF 1 1/2 HOURS. PROVIDE WITH 165°F FUSIBLE LINK. DAMPER SHALL BE RATED FOR DYNAMIC CLOSURE TO A MINIMUM 200 FPM AND 4 INCHES W.G. AND RATED TO CLOSE WITH AIRFLOW IN EITHER DIRECTION.
6. EACH FIRE DAMPER SHALL INCLUDE A 12" LONG INTEGRAL ROLL FORMED STEEL SLEEVE & MOUNTING ANGLES FURNISHED BY THE DAMPER MANUFACTURER.
7. DAMPER ACCESS DOOR SIZES SHALL BE 8"x12" ON DUCTS SMALLER THAN 14", AND DUCT SIZE LESS 2" UP TO 24"x24" ON DUCTS 14" & LARGER.

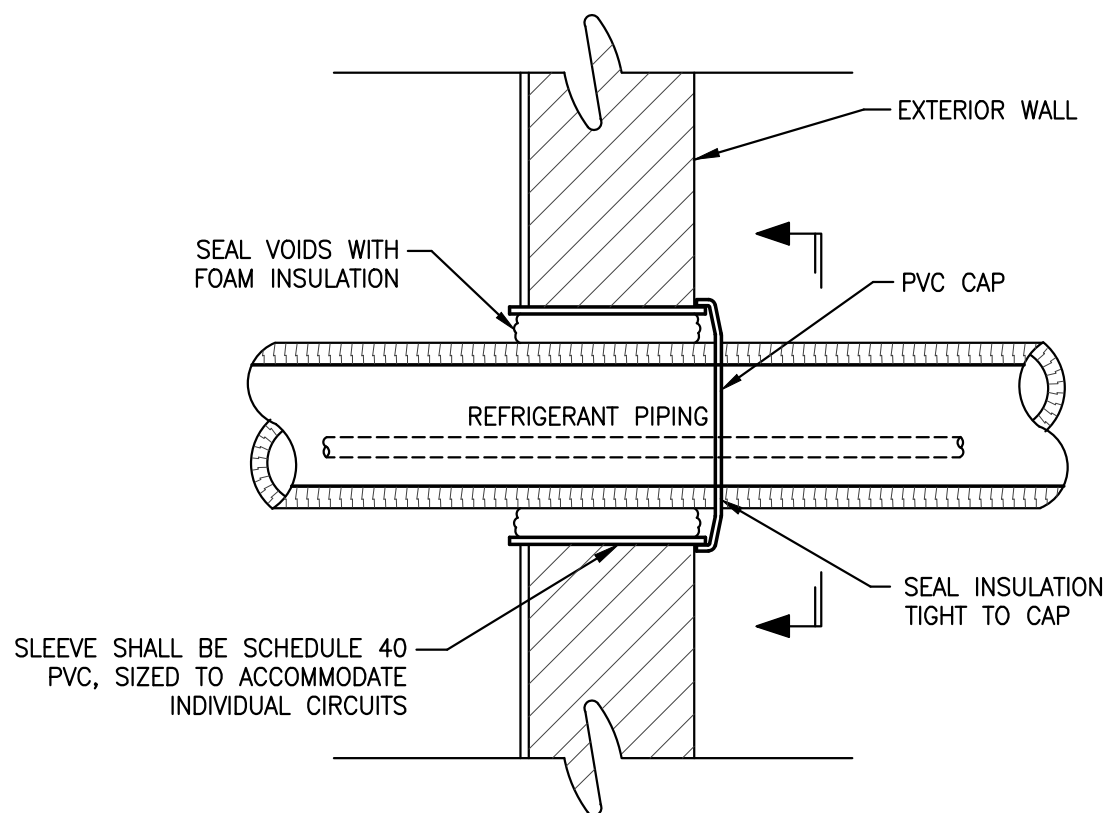
1 VERTICAL FIRE DAMPER - STYLE B DETAIL
SCALE: N.T.S.



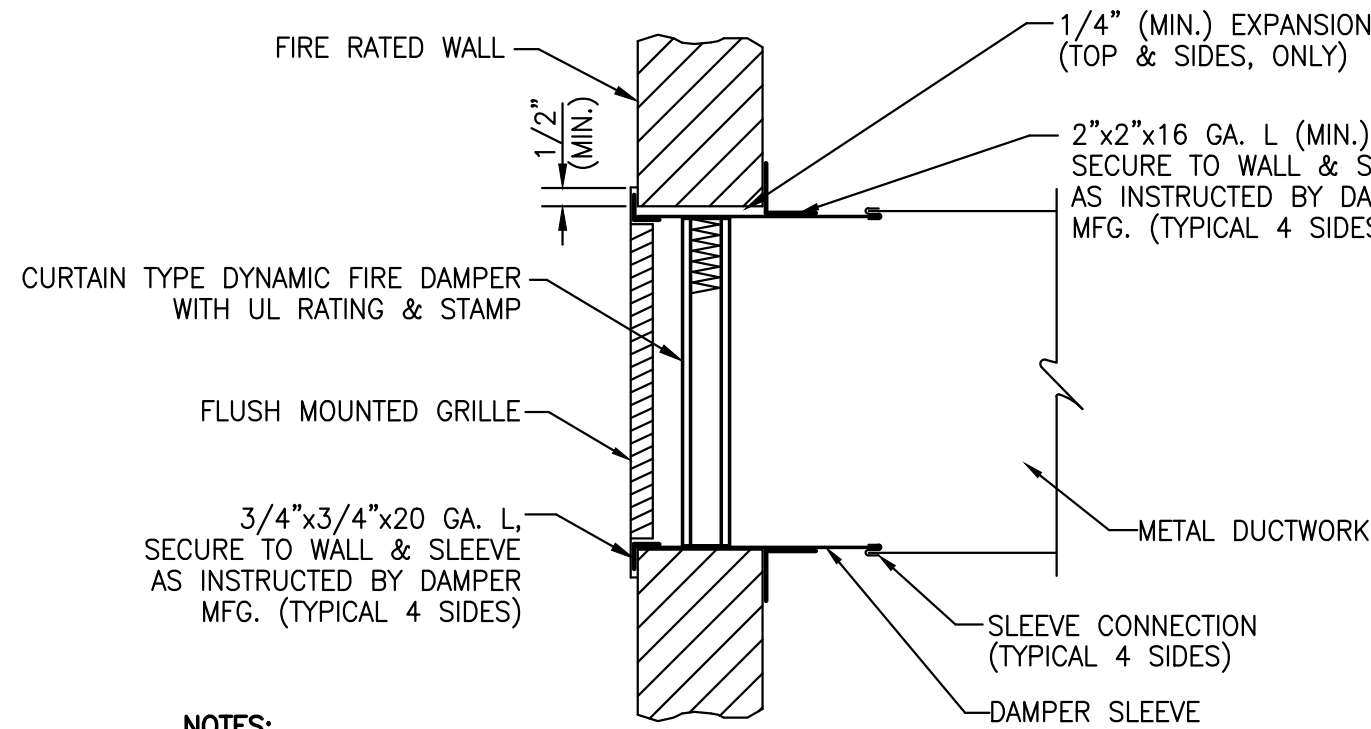
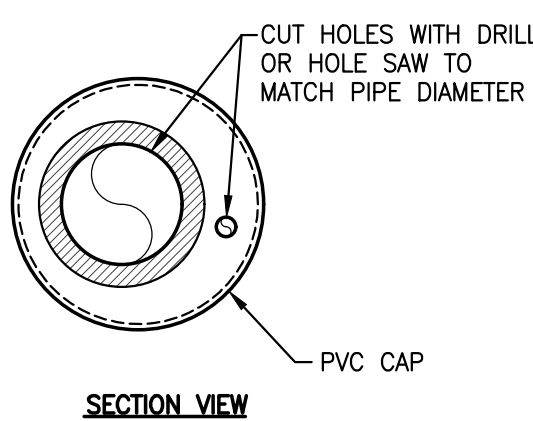
NOTES:

1. THIS DETAIL IS GENERIC FOR GENERAL GUIDANCE ONLY.
2. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. APPLY SEALANT EQUAL TO DOW CORNING 999 AROUND RETAINING ANGLES & SLEEVE CONNECTIONS.
4. PROVIDE 2" THICK WRAP INSULATION AROUND EXPOSED DAMPER SLEEVE TO PREVENT CONDENSATION.
5. DAMPER ACCESS DOOR SIZES SHALL BE 8" x 12" ON DUCTS SMALLER THAN 14" AND 12" x 12" ON DUCTS 14" & LARGER.

4 HORIZONTAL FIRE DAMPER - STYLE B DETAIL
SCALE: N.T.S.



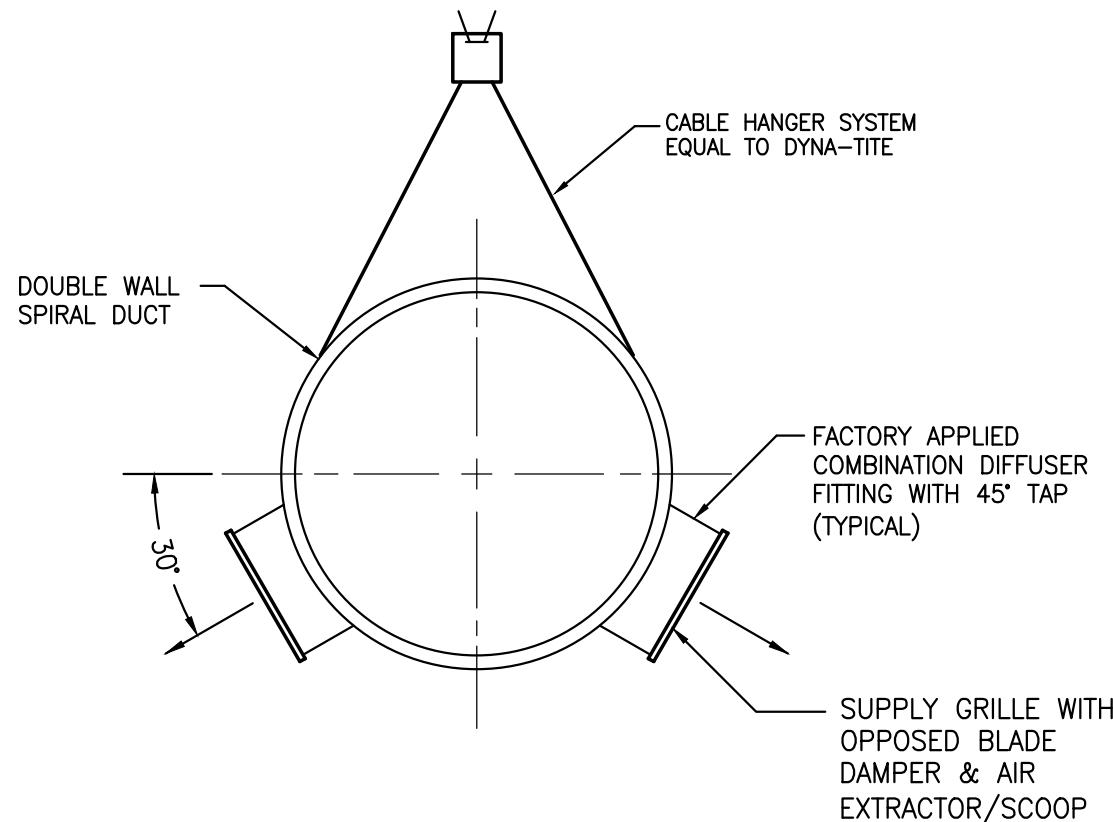
8 REFRIGERANT PIPE PENETRATION (EXTERIOR WALL) DETAIL
SCALE: N.T.S.



NOTES:

1. THIS DETAIL IS GENERIC FOR GENERAL GUIDANCE ONLY.
2. INSTALL FIRE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
3. APPLY SEALANT EQUAL TO DOW CORNING 999 AROUND RETAINING ANGLES & SLEEVE CONNECTIONS.
4. PROVIDE 2" THICK WRAP INSULATION AROUND EXPOSED DAMPER SLEEVE TO PREVENT CONDENSATION.
5. DYNAMIC DAMPER SHALL BE TESTED, CONSTRUCTED AND LABELED IN ACCORDANCE WITH UL STANDARD 555. DAMPER SHALL HAVE A FIRE RATING OF 1 1/2 HOURS. PROVIDE WITH 165°F FUSIBLE LINK. DAMPER SHALL BE RATED FOR DYNAMIC CLOSURE TO A MINIMUM 200 FPM AND 4 INCHES W.G. AND RATED TO CLOSE WITH AIRFLOW IN EITHER DIRECTION.
6. EACH FIRE DAMPER SHALL INCLUDE A 12" LONG INTEGRAL ROLL FORMED STEEL SLEEVE & MOUNTING ANGLES FURNISHED BY THE DAMPER MANUFACTURER.

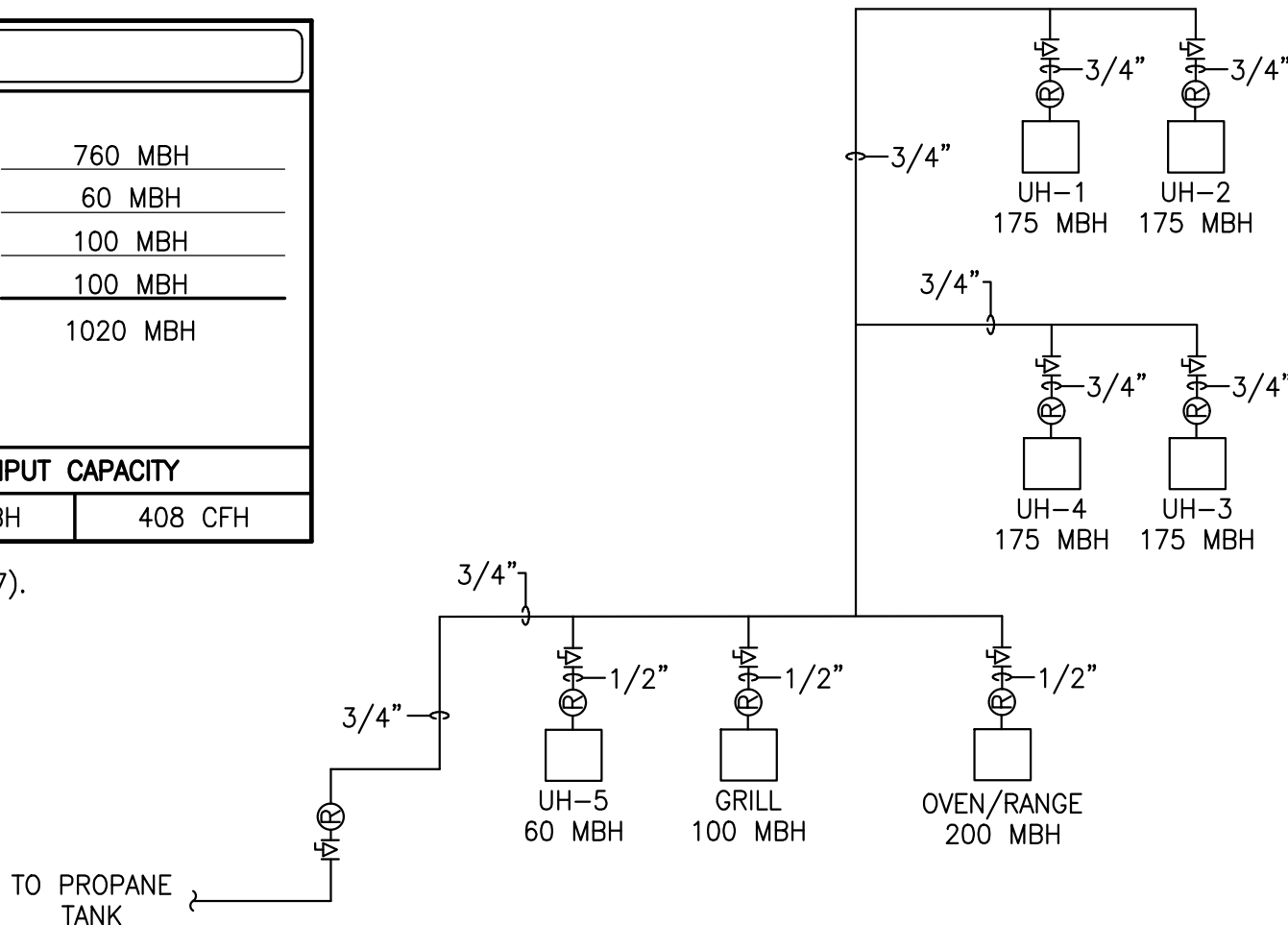
5 SIDEWALL GRILLE WITH FIRE DAMPER DETAIL
SCALE: N.T.S.



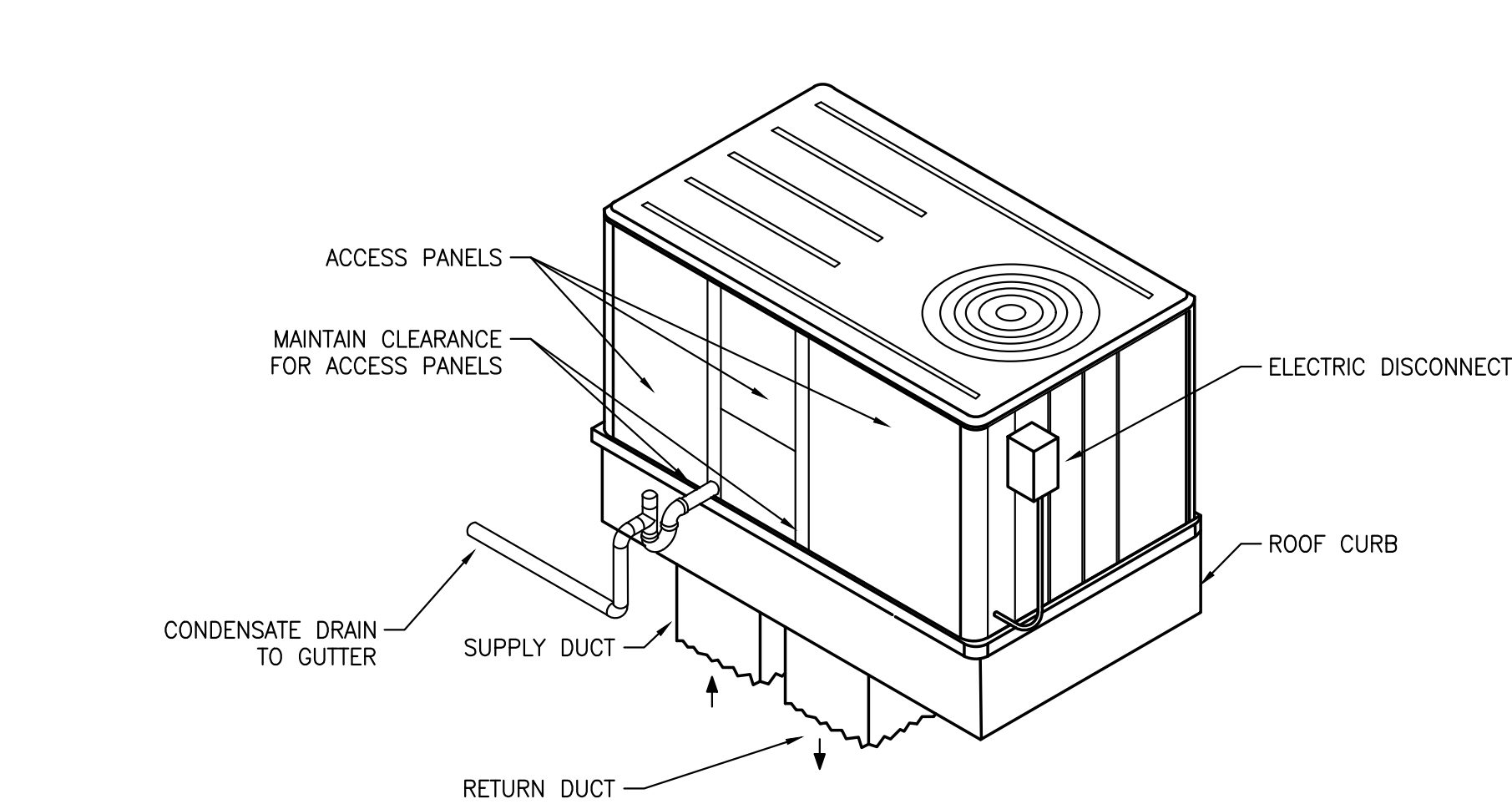
9 GRILLE ARRANGEMENT IN SPIRAL DUCT DETAIL
SCALE: N.T.S.

GAS PIPING DESIGN TABLE				
PIPING MATERIAL:	SCH 40 CS	BLDG HEATING EQUIP:	760 MBH	
DEVELOPED LENGTH:	125 FT	GAS RANGE:	60 MBH	
REQ'D HEADER SIZE:	3/4"	GAS OVENS:	100 MBH	
		GAS GRILL:	100 MBH	
		TOTAL CAPACITY:	1020 MBH	
SERVICE TYPE	SYSTEM PRESSURE	PRESSURE DROP	INPUT CAPACITY	
PROPANE	2-PSI	1-PSI	1020 MBH	408 CFH

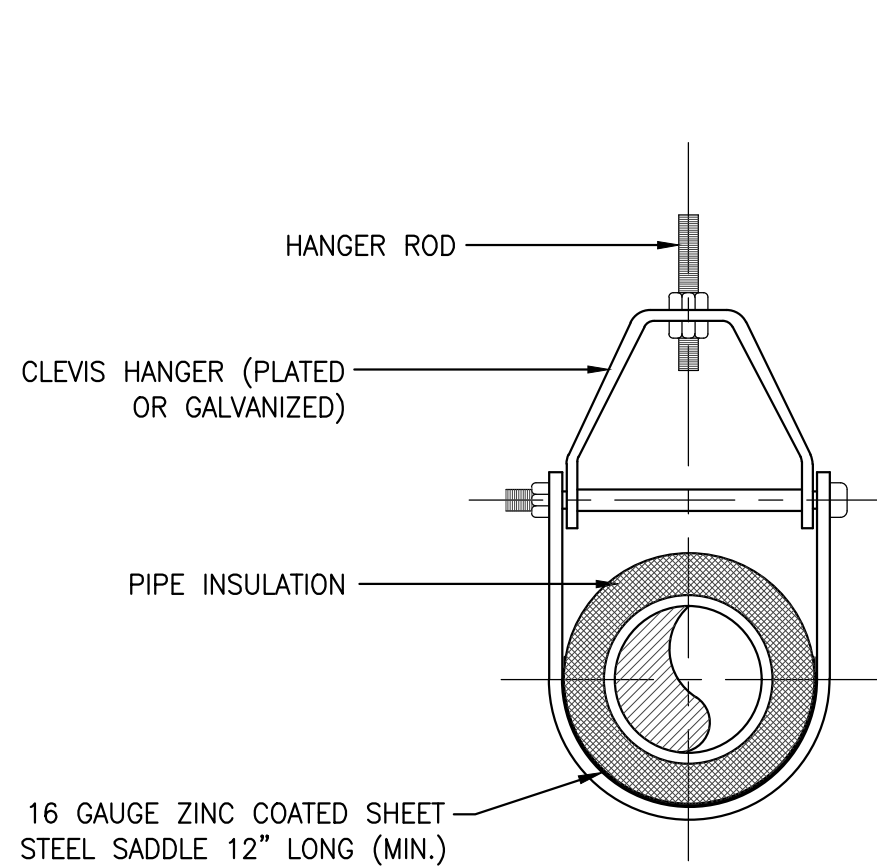
NOTE: GAS PIPING SIZED BASE ON NC FUEL GAS CODE, TABLE 402.4(27).



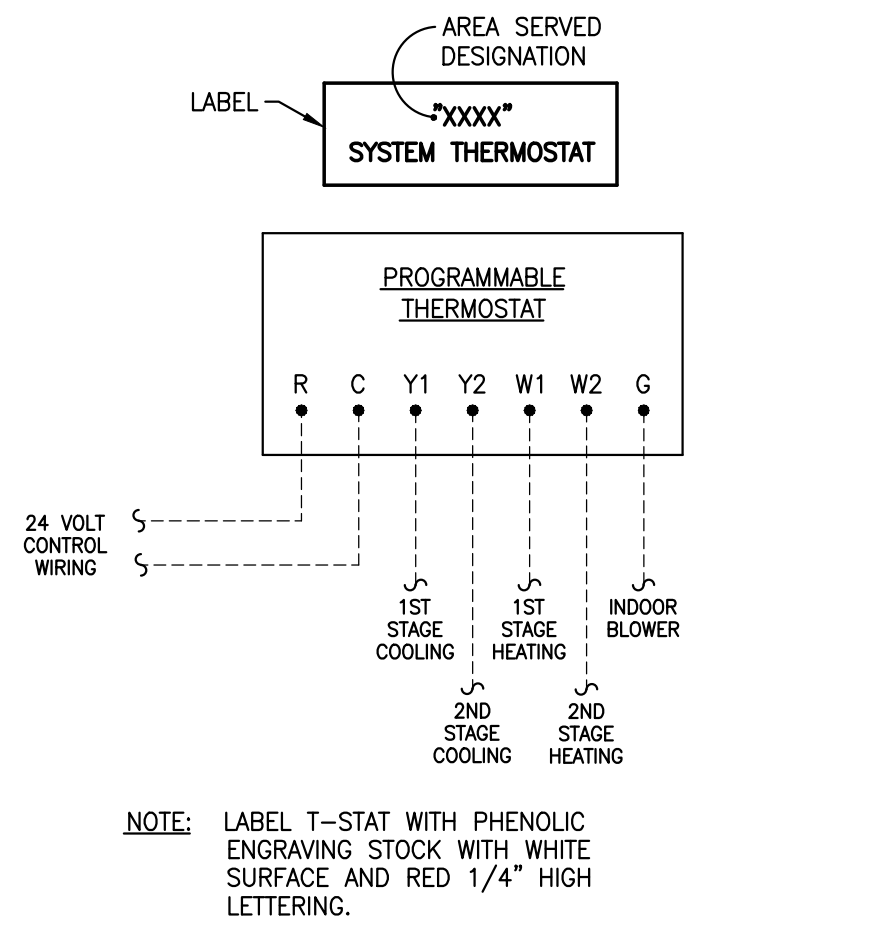
2 MECHANICAL GAS PIPING DIAGRAM
SCALE: N.T.S.



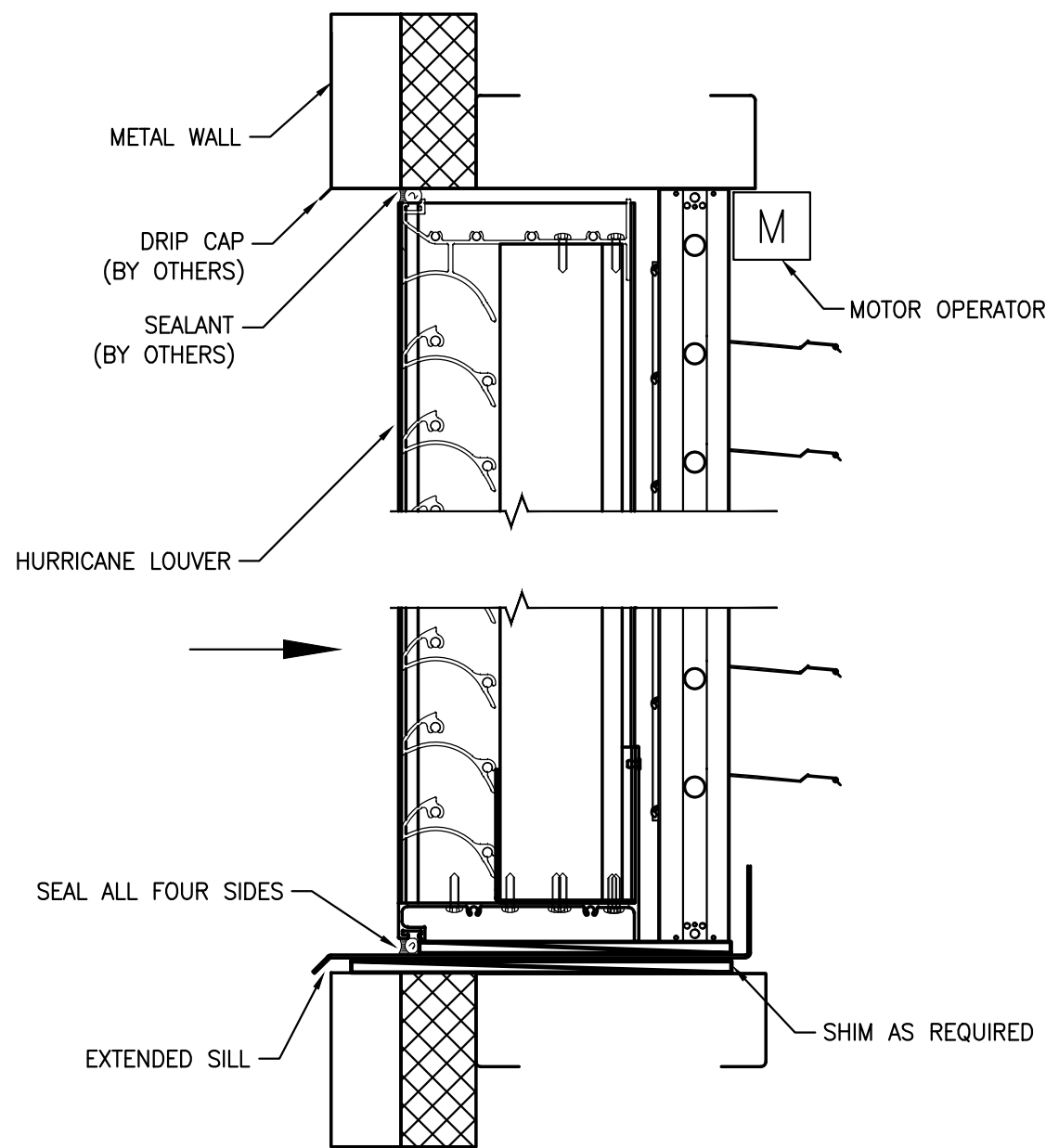
3 ROOFTOP UNIT DETAIL (ROOF MOUNTED)
SCALE: N.T.S.



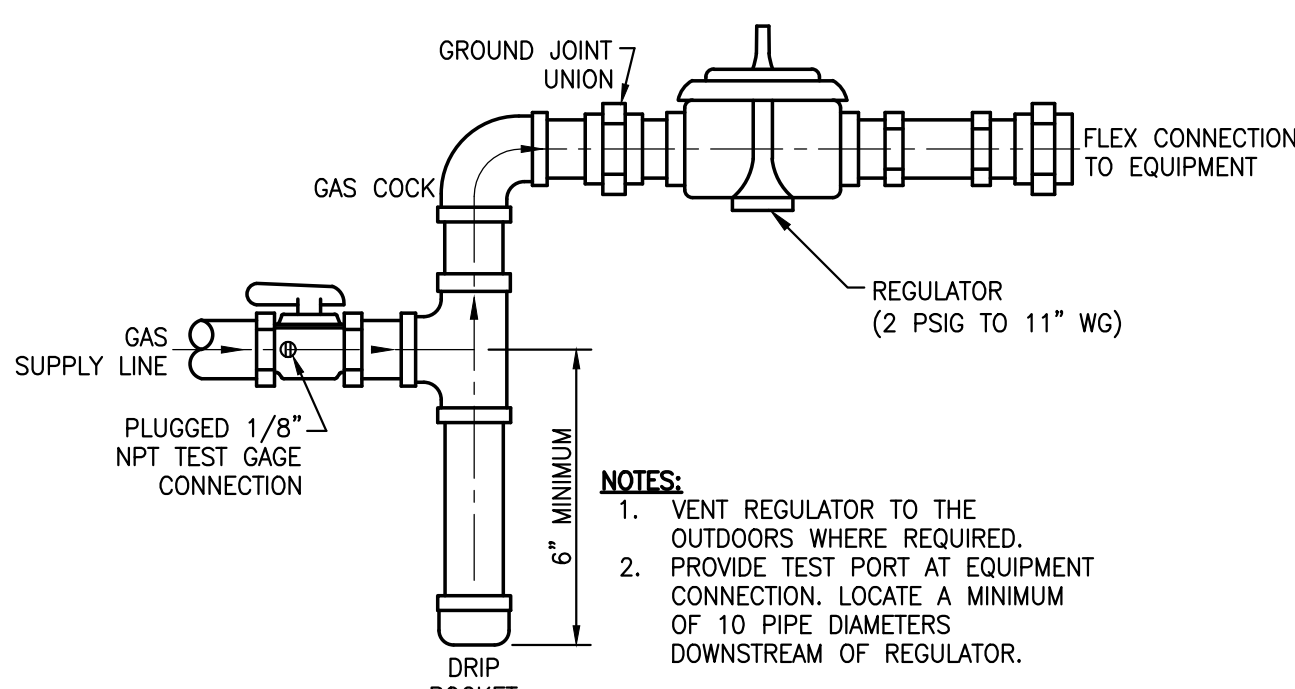
6 CLEVIS PIPE HANGER DETAIL
SCALE: N.T.S.



7 THERMOSTAT INSTALLATION DETAIL
SCALE: N.T.S.



11 HURRICANE LOUVER WITH DAMPER
SCALE: N.T.S.



10 EQUIPMENT GAS CONNECTION DETAIL
SCALE: N.T.S.



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MAYSVILLE FIRE STATION

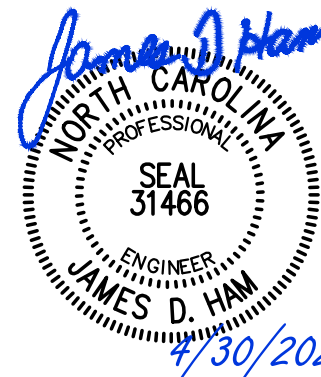
603 4TH STREET

MAYSVILLE, NC 28555



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GOLDSBORO, NC 27532
TEL: (919) 778-9064

PROJECT NO. PROJECT MGR. DRAWN BY
224010 D. HAM D. HILL



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#	DESC:	DATE

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

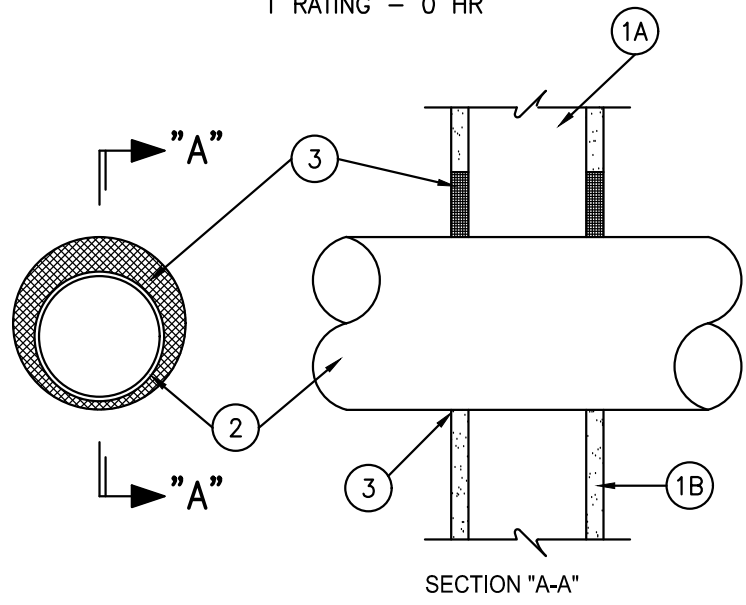
SHEET NAME & NUMBER

MECHANICAL DETAILS

M2.04

UL SYSTEM NO. W-L-1108

F RATING - 1 HR
T RATING - 0 HR



- WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
 - STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
 - WALLBOARD, GYPSUM* - ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 11-3/4 IN.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
 - STEEL PIPE - NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - IRON PIPE - NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - CONDUIT - NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER TUBING - NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER PIPE - NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
- FILL, VOID OR CAVITY MATERIAL*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

*BEARING THE UL CLASSIFICATION MARKING

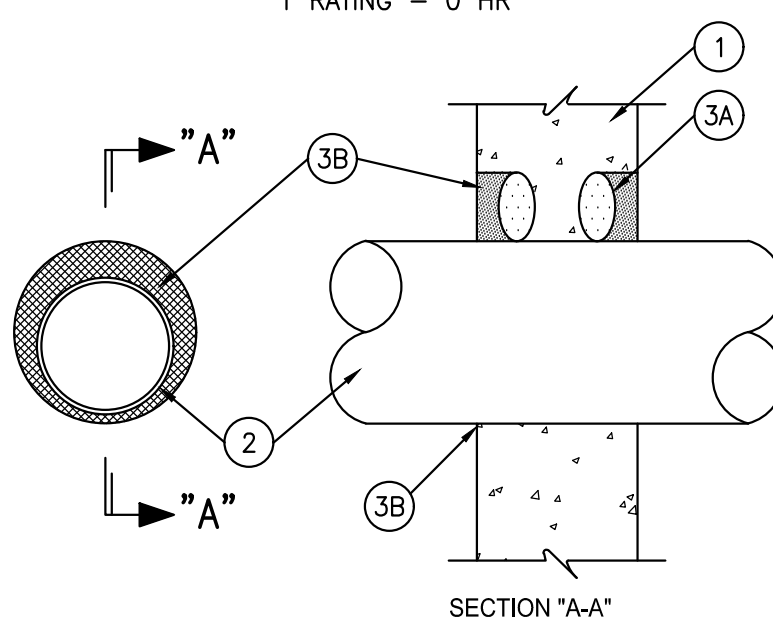
FIRESTOP MATERIALS BY 3M, RECTORSEAL AND SPECSOAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

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- UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.

UL SYSTEM NO. W-J-1038

F RATING - 2 HR
T RATING - 0 HR

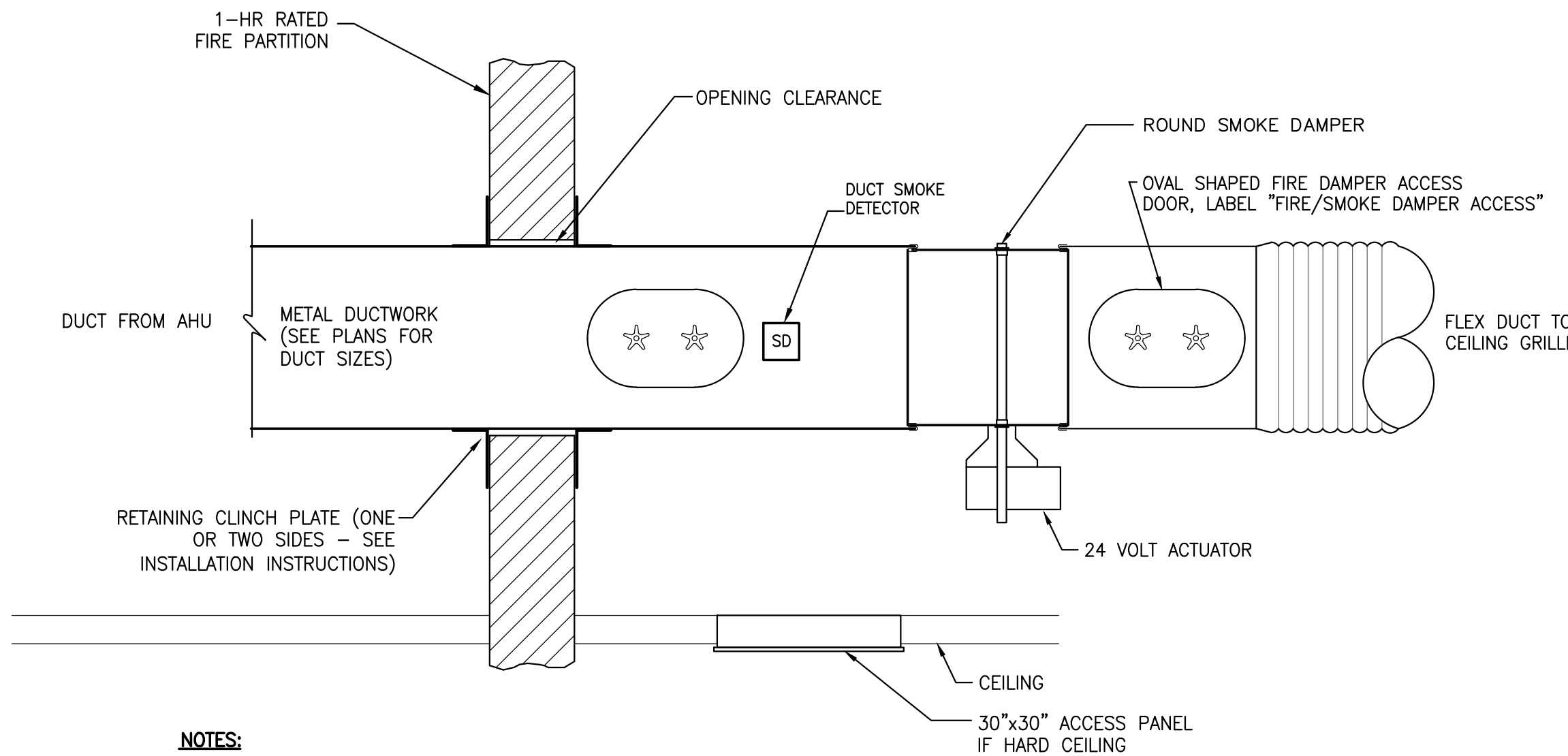


- WALL ASSEMBLY - MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIA. OF OPENING IS 11-3/4 IN. SEE CONCRETE BLOCKS (CAZI) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
 - STEEL PIPE - NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - IRON PIPE - NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - CONDUIT - NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER TUBING - NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER PIPE - NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
- FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - PACKING MATERIAL - FOAM BACKER ROD FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 - FILL, VOID OR CAVITY MATERIAL*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.-METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSOAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

- UL 1 & 2 HOUR BLOCK WALL PENETRATION DETAIL
SCALE: N.T.S.



NOTES:

- THIS DETAIL IS GENERIC FOR GENERAL GUIDANCE ONLY.
- CENTERLINE OF THE DAMPER BLADES SHALL BE WITHIN 24" OF THE RATED SMOKE BARRIER AND BEFORE ANY DUCT INLETS OR OUTLETS.
- INSTALL SMOKE DAMPER IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION DETAILS. DO NOT VARY FROM THOSE INSTRUCTIONS IN ANY WAY. DO NOT FIRESTOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY REQUIRED BY THE DAMPER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- APPLY SEALANT EQUAL TO DOW CORNING 999 AROUND RETAINING ANGLES & SLEEVE CONNECTIONS. PROVIDE 2" THICK WRAP INSULATION AROUND EXPOSED DAMPER SLEEVE TO PREVENT CONDENSATION.
- DAMPER SHALL BE TESTED, CONSTRUCTED AND LABELED IN ACCORDANCE WITH UL STANDARD 555. SMOKE LEAKAGE CLASS 2 PER UL555S. DAMPER SHALL BE RATED FOR DYNAMIC CLOSURE TO A MINIMUM 2000 FPM AND 4 INCHES W.G. AND RATED TO CLOSE WITH AIRFLOW IN EITHER DIRECTION.
- ACTUATOR SHALL BE FACTORY EXTERNALLY MOUNTED, 24VDC POWERED FROM THE FIRE ALARM SYSTEM, AND FAIL CLOSED. DAMPER AND ACTUATOR SHALL BE RATED FOR ELEVATED TEMPERATURES UP TO 350 DEG F.
- DAMPER ACCESS DOOR SIZES SHALL BE 10"x6". POSITION CEILING ACCESS PANEL & DAMPER ACCESS DOOR TO ALLOW FOR FULL ACCESS TO DAMPER & ACTUATOR.
- WHERE A SMOKE DAMPER IS INSTALLED WITHIN A DUCT, A SMOKE DETECTOR SHALL BE INSTALLED INSIDE THE DUCT OR OUTSIDE THE DUCT WITH SAMPLING TUBES PROTRUDING INTO THE DUCT. THE DETECTOR OR TUBES WITHIN THE DUCT SHALL BE WITHIN 5 FEET OF THE DAMPER. AIR OUTLETS AND INLETS SHALL NOT BE LOCATED BETWEEN THE DETECTOR OR TUBES AND THE DAMPER. THE DETECTOR SHALL BE LISTED FOR THE AIR VELOCITY, TEMPERATURE AND HUMIDITY ANTICIPATED AT THE POINT WHERE IT IS INSTALLED. OTHER THAN IN MECHANICAL SMOKE CONTROL SYSTEMS, DAMPERS SHALL BE CLOSED UPON FAN SHUTDOWN WHERE LOCAL SMOKE DETECTORS REQUIRE A MINIMUM VELOCITY TO OPERATE.

- ROUND SMOKE DAMPER DETAIL
SCALE: N.T.S.



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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



REVISIONS:
| DESC: | DATE |

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025
PHASE:
CONSTRUCTION DOCUMENTS
SHEET NAME & NUMBER
MECHANICAL SCHEDULES

M3.01

Ventilation Sizing Summary Based on ASHRAE 62.1-2016											
for Constant Volume Systems serving multiple spaces											
		Req. Supply Air (CFM)	Space Area (ft²)	Area Outdoor Air Rate (CFM/ft²)	Time Avg Occ	People Rate (CFM/person)	Air Eff	Space Outdoor Air (CFM)	Breathing Zone (CFM)	Space Vent Eff	
HP # 1 - North Offices											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
109 Lounge/Day Room	1	1050	757	0.06	15	5	0.8	151	120	1.000	
Totals (incl. Space Mult)		1050							120	1.000	
										OA Required for unit	150
										OA CFM Provided	150
RTU # 1 - Training Rm											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
101 Training Rm	1	1300	716	0.06	35.8	5	0.8	277	222	1.000	
Totals (incl. Space Mult)		1300							222	1.000	
										OA Required for unit	277
										OA CFM Provided	280
HP # 2 - Kitchen											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
101A Storage	1	33	120	0.06	0	5	0.8	9	7	0.862	
103 Kitchen	1	599	190	0.18	8	7.5	0.8	118	94	0.938	
105 Mens Restroom Rm	1	8	119	0	0	0	0.8	0	0	1.135	
107 Womens RR	1	7	121	0	0	0	0.8	0	0	1.135	
113 Laundry	1	288	175	0.06	1	5	0.8	19	16	1.067	
1st Floor Corridor	1	116	410	0.06	0	5	0.8	31	25	0.870	
Totals (incl. Space Mult)		1051							142	0.862	
										OA Required for unit	164
										OA CFM Provided	200
HP # 3 - 1st Floor Offices East Side											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
102 Chief Office	1	156	196	0.06	1	5	0.8	21	17	0.954	
104 Office	1	141	135	0.06	1	5	0.8	16	13	0.972	
106 Vestibule	1	174	124	0.06	0	5	0.8	9	7	1.035	
108 Radio Rm	1	142	134	0.06	1	5	0.8	16	13	0.973	
110 Office	1	142	133	0.06	1	5	0.8	16	13	0.974	
112 Bunk Room	1	147	134	0.06	1.3	5	0.8	18	15	0.964	
114 Bunk Room	1	147	134	0.06	1.3	5	0.8	18	15	0.964	
Totals (incl. Space Mult)		1049							92	0.954	
										OA Required for unit	97
										OA CFM Provided	100
HP # 4 - 2nd Floor Conference Rm											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
203 Conference Rm	1	875	528	0.06	26.4	5	0.8	205	164	1.000	
Totals (incl. Space Mult)		875							164	1.000	
										OA Required for unit	164
										OA CFM Provided	170
HP # 5 - 2nd Floor East Side											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
204 Office	1	169	132	0.06	1	5	0.8	16	13	0.990	
205 Mens Rest Room	1	29	120	0	0	0	0.8	0	0	1.086	
206 Office	1	168	132	0.06	1	5	0.8	16	13	0.989	
207 Womens Rest Rm	1	29	118	0	0	0	0.8	0	0	1.086	
210 Office	1	168	134	0.06	1	5	0.8	16	13	0.989	
212 Office	1	168	132	0.06	1	5	0.8	16	13	0.989	
214 Office	1	168	132	0.06	1	5	0.8	16	13	0.989	
216 Office	1	167	132	0.06	1	5	0.8	16	13	0.989	
2nd Flr Corridor	1	168	466	0.06	0	5	0.8	35	28	0.878	
Totals (incl. Space Mult)		1234							106	0.878	
										OA Required for unit	120
										OA CFM Provided	125
HP # 7 - Fitness											
Space Name	Mult.	(Vpz)	(Az)	(Ra)	(Pz)	(Rp)	(Ez)	(Voz)	(Vbz)	(Evz)	
211 Fitness	1	260	225	0.06	2.2	20	0.8	72	58	1.000	
Totals (incl. Space Mult)		260							58	1.000	
										OA Required for unit	58
										OA CFM Provided	60
Shop and Shop Areas											
Space Name			Area SF	Cfm/SF	People	OA cfm /person	Air Dist Effect		OA cfm Required	Vent CFM Provided	
Apparatus Bays			5530	0.75	4	5.0	1		4167.5	4500	
116 Storage			363	0.12	0	5.0	1		43.56	250	

PIPE SYSTEMS:

- ALL PIPING SHALL BE SUPPORTED & SECURED WITH SUITABLE HANGERS, STRAPS OR PIPE STANDS. SUPPORT WITH NO DROOPS OR SAGS. ALL HANGERS AND ATTACHMENTS SHALL BE PLATED, GALVANIZED OR PAINTED. PROVIDE ISOLATION ON PIPING OF DISSIMILAR MATERIALS.
- CONDENSATE TRAPS FOR ALL AC UNITS SHALL BE SIZED AS RECOMMENDED BY UNIT MANUFACTURER'S. CONDENSATE PIPING SHALL BE SCHEDULE 40 PVC ROUTED TO DRYWELL OR STORM DRAIN. INSULATE WITH FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION.
- REFRIGERANT PIPING SHALL BE TYPE ACR COPPER WITH SILVER SOLDERED JOINTS. INSTALL PER EQUIPMENT INSTALLATION INSTRUCTIONS. INSULATION SHALL BE FLEXIBLE ELASTOMERIC INSULATION. SEAL ALL JOINTS AND SEAMS TO PREVENT CONDENSATION. PROTECT EXTERIOR INSULATION FROM SOLAR DETERIORATION WITH UV COATING.
- GAS PIPING SHALL BE A-53 SCHEDULE 40 BLACK STEEL WITH MALLEABLE FITTINGS. PIPING BELOW GRADE SHALL HAVE FRP COATING AND ABOVE GRADE SHALL BE PRIMED & PAINTED. BOND ALL GAS PIPING ABOVE GRADE & WITHIN BUILDING. PROVIDE MAGNETIC MARKER TAPE 12-INCHES ABOVE ALL BELOW GRADE PIPING. PIPING CONCEALED WITHIN WALLS SHALL COMPLY WITH NC GAS CODE SECTION 404.3.

STATEMENT FOR SPECIAL INSPECTIONS:

PROJECT: MAYSVILLE FD
LOCATION: MAYSVILLE, NORTH CAROLINA
PME ENGINEERING FIRM: ENTECH ENGINEERING

THE SITE CLASSIFICATION AS DEFINED BY THE IBC IS "D". THE SEISMIC DESIGN CATEGORY IS "C" BASED ON BUILDING OCCUPANCY CATEGORY IV. - ESSENTIAL FACILITIES.
THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL SERVICES APPLICABLE TO THIS PROJECT. IT INCLUDES REQUIREMENTS FOR SEISMIC RESISTANCE AND/OR REQUIREMENTS FOR WIND RESISTANCE.

THE SPECIAL INSPECTION COORDINATOR SHALL KEEP RECORDS OF ALL INSPECTIONS AND SHALL FURNISH INSPECTIONS REPORTS TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND REGISTERED DESIGN PROFESSIONAL. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES.

THE FREQUENCY OF INSPECTIONS, EITHER CONTINUOUS OR PERIODIC, SHALL BE MADE IN ACCORDANCE WITH SECTION 1704 OF THE NORTH CAROLINA BUILDING CODE.

INTERIM REPORTS SHALL BE SUBMITTED MONTHLY TO THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL. THE REPORTS SHALL INCLUDE THE DAILY OBSERVATION REPORTS AND A SUMMARY OF THE ACTIVITIES COMPLETED AND/OR IN PROGRESS THAT ARE RECEIVING SPECIAL INSPECTIONS. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

THE MINIMUM QUALIFICATIONS OF SPECIAL INSPECTOR SHALL BE DONE BY AN APPROVED TESTING AGENCY MEETING THE REQUIREMENTS OF THE IBC SECTION 1703 AND ADTM-E329.

THE BUILDING OFFICIAL IS AUTHORIZED TO APPROVE SPECIAL INSPECTORS WHO HAVE DOCUMENTED RELEVANT EXPERIENCE AND ARE PROGRESSING TOWARDS ACHIEVING THE MINIMUM QUALIFICATIONS.

THE STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES THE FOLLOWING DISCIPLINES:

- MECHANICAL
- GAS PIPING (HANGERS & SUPPORTS)
- AIR HANDLERS (HANGERS)
- INFRARED GAS UNIT HEATER (HANGERS & FLEX GAS CONNECTION)
- GAS RANGE (FLEX GAS CONNECTION)
- GAS DRYER (FLEX GAS CONNECTION)
- REFRIGERANT PIPING (HANGERS)
- AIR DISTRIBUTION (GRID CLIPS)
- WALL FANS (STRUCTURAL ATTACHMENTS)
- (DUCTWORK IS NOT REQUIRED)

STATEMENT OF SPECIAL INSPECTIONS REQUIREMENTS OF WIND RESISTANCE

BASIC WIND SPEED (3 SECOND GUST): 140 MPH

WIND EXPOSURE CATEGORY: "C" (ASCE 7-10)

DESCRIPTION OF MAIN WIND FORCE-RESISTING COMPONENTS SUBJECT TO SPECIAL INSPECTION FOR WIND RESISTANCE:

- N/A

STATEMENT OF SPECIAL INSPECTIONS REQUIREMENTS FOR SEISMIC RESISTANCE

THE SITE CLASSIFICATION: "D"

DESCRIPTION OF SEISMIC SYSTEMS SUBJECT TO PERIODIC SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE:

- GAS PIPING (HANGERS & SUPPORTS)
- AIR HANDLERS (HANGERS)
- INFRARED GAS UNIT HEATER (HANGERS & FLEX GAS CONNECTION)
- GAS RANGE (FLEX GAS CONNECTION)
- GAS DRYER (FLEX GAS CONNECTION)
- REFRIGERANT PIPING (HANGERS)
- AIR DISTRIBUTION (GRID CLIPS)
- WALL FANS (STRUCTURAL ATTACHMENTS)

CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OR FABRICATION OF A SYSTEM OR COMPONENT DESIGNATED ABOVE MUST SUBMIT A STATEMENT OF RESPONSIBILITY.

AIR DISTRIBUTION SCHEDULE													
MARK	CFM RANGE	TYPE	MNT.	SIZE	NECK	THROW	MAX NC	PATTERN	DIRECTION	MAT'L	FINISH	REMARKS	
A	0-100	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	6"x6"x6"	15'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL	
B	100-200	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	9"x9"x8"	20'	15	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL	
C	200-400	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x10"	24'	20	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL	
C1	200-400	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x10"	24'	20	3-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL	
D	400-600	LOUVERED FACE SUPPLY DIFFUSER	LAY-IN	24"x24"	12"x12"x12"	27'	30	4-WAY	HORZ	ALUM.	WHITE	FLUSH FACE SNAP IN CORE MOUNTED IN 2X2 PANEL	
SW	0-400	SIDEWALL SUPPLY DOUBLE DEFLECTION	WALL	14"x6"	14"x6"	19'	26	DBL DFL	HORZ	ALUM.	WHITE	VERTICAL FACE BARS, SIDEWALL MOUNTED	
FR	0-600	LOUVERED FACE FILTERED RETURN, 1/2" SPACING	LAY-IN	24"x24"	6"ø TO 12"ø	-	-	-	-	STEEL	WHITE	HINGED FACE, KNURLED KNOBS, 1" PLEATED FILTER	
R	0-600	RETURN 1/2" CUBE FACE	LAY-IN	24"x24"	6"ø TO 12"ø	-	-	-	-	ALUM.	MILL		
RG-1	0-200	LOUVERED RETURN GRILLE, 45 DEG BLADES	SURF	14"x8"	-	-	-	45 DEG	-	STEEL	WHITE	BLADES PARALLEL TO LONG DIMENSION	
RG-2	0-1200	LOUVERED RETURN GRILLE, 45 DEG BLADES	DUCT	20"x20"	-	-	-	45 DEG	-	STEEL	WHITE	BLADES PARALLEL TO LONG DIMENSION	

NOTES:

- VERIFY AIR DISTRIBUTION TYPE WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- AIR THROWS BASED ON 50 FPM WITH ISOTHERMAL CONDITIONS. COOLING WILL SHORTEN THROW DISTANCES BY APPROXIMATELY 75% OF VALUE SHOWN. SIDEWALL GRILLS SET AT 45 DEG.

MECHANICAL PIPING INSULATION TABLE						
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	PIPE SIZE	THICKNESS	REMARKS
REFRIGERATION SUCTION PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	UNCONDITIONED SPACE	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	SEAL ALL JOINTS & SEAMS TO PREVENT CONDENSATION
	EXTERIOR	CLOSED CELL ELASTOMERIC	NONE	ALL	1 1/2"	PROVIDE WITH WHITE UV PROTECTIVE COATING
A/C CONDENSATE PIPING	BUILDING ENVELOPE	CLOSED CELL ELASTOMERIC	NONE	ALL	3/4"	-

NOTES: ALL PIPE HANGERS AND SUPPORTS ON COLD PIPING SHALL BE OF CLEVIS TYPE ON OUTSIDE OF INSULATION TO MAINTAIN VAPOR BARRIER.

MECHANICAL DUCT INSULATION TABLE						
SERVICE	LOCATION	MATERIAL TYPE	JACKET TYPE	R-VALUE	THICKNESS	REMARKS
RIGID METAL SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL RETURN DUCT	CONDITIONED SPACE	(NONE REQUIRED)				
	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
RIGID METAL OUTSIDE AIR DUCT	BUILDING ENVELOPE	FIBERGLASS BLANKET	FSK	R-6.0	2.2"	R-VALUE BASED ON NOMINAL RATING AS INSTALLED
EXHAUST DUCT	ALL	(NONE REQUIRED)				
FLEXIBLE SUPPLY DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	
FLEXIBLE RETURN DUCT	BUILDING ENVELOPE	FIBERGLASS	REINFORCED METALIZED PROTECTIVE BARRIER	R-6.0	2"	

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PROJECT NO. 224010 PROJECT MGR. DRAWN BY
D. HAM D. HILL



REVISIONS:
|DESC: | DATE

PHASE:
CONSTRUCTION DOCUMENTS
SHEET NAME & NUMBER

MECHANICAL SCHEDULES

M3.02

MECHANICAL NOTES:

- MECHANICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE OPERATING MECHANICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
- CONTRACTOR SHALL REVIEW & BECOME FAMILAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF HVAC INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH LOCAL, STATE & NATIONAL CODES. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- POWER WIRING, DISCONNECTS & STARTERS NOT FURNISHED WITH HVAC EQUIPMENT AND FINAL CONNECTIONS SHALL BE BY THE E.C.
- CONTROL WIRING, RELAYS AND INTERLOCKING DEVICES SHALL BE PROVIDED BY THE M.C.
- TEMPERATURE CONTROLS FOR EACH HEATING-COOLING SYSTEM SHALL CONSIST OF AN ELECTRONIC PROGRAMMABLE HEATING-COOLING THERMOSTAT WITH HEAT-OFF-COOL-AUTO SYSTEM SWITCH & AUTO-ON FAN SWITCH. THERMOSTAT SHALL HAVE WIFI ACCESS. MOUNT THERMOSTATS 48-INCHES A.F.F.
- INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE & REPAIR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AS WELL AS SPECIFIC INSTRUCTIONS ON PLANS.
- PROVIDE FLEX CONNECTORS AT ALL DUCT TO EQUIPMENT CONNECTIONS NOT HAVING INTERNALLY ISOLATED FANS.
- PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL GROUND & FLOOR MOUNTED EQUIPMENT. UNLESS NOTED OTHERWISE ALL PADS SHALL BE 4" THICK & 4" LARGER THAN EQUIPMENT ON ALL SIDES. PADS SHALL BE 3000 PSI CONCRETE.
- CONTRACTOR SHALL BALANCE AIR SYSTEM TO QUANTITIES INDICATED ON PLANS AND PROVIDE TYPE WRITTEN REPORT WITH O&M MANUALS.
- ALL EQUIPMENT & SYSTEMS SHALL BE WASHED, MECHANICAL AREAS CLEANED AND PAINTED SURFACES TOUCHED UP TO MATCH FACTORY APPLIED FINISHES. AIR HANDLERS SHALL BE VACUUMED AND WIPED CLEAN ON THE INSIDE PRIOR TO TURNING THE PROJECT OVER TO THE OWNER. ENTIRE SYSTEMS INCLUDING DUCTWORK THAT HAVE NOT BEEN ADEQUATELY PROTECTED DURING INSTALLATION WILL REQUIRE ADDITIONAL CLEANING AT THE END OF THE PROJECT.
- CONTRACTOR SHALL COVER EACH RETURN OPENING LOCATION & EACH AIR HANDLER FILTER RACK WITH MERV 8 PLEATED FILTER MEDIA BEFORE STARTUP OF MECHANICAL SYSTEMS. CONTRACTOR SHALL ALSO INSTALL A NEW SET OF MERV 8 PLEATED FILTERS AT EACH PERMANENT FILTER LOCATION BEFORE TURNING BUILDING OVER TO OWNER.
- CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 503.2.9.2 INCLUDING EQUIPMENT BASIC DATA, CONTROL INFORMATION, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.
- GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY. EXTENDED GUARANTEES ON EQUIPMENT SHALL BE AS PUBLISHED ON MANUFACTURER'S EXTENDED WARRANTIES.

DUCT SYSTEMS:

- ALL DUCT INSTALLATION SHALL BE COORDINATED SUCH THAT DUCT DOES NOT INTERFERE WITH FUTURE REMOVAL OF CEILING TILES, WATER HEATERS, OR LIGHT FIXTURES. DUCT SHALL BE A MINIMUM OF 6" FROM LIGHT FIXTURES AND CEILING TILES.
- DUCT SHALL BE FABRICATED OF MINIMUM G-60 GALVANIZED STEEL AND DELIVERED TO THE JOBSITE WITH OPEN ENDS AND INTERIOR OF DUCTWORK PROTECTED. STORE DUCT WITHIN THE BUILDING, ELEVATED OFF THE FLOOR AND PROTECTED FROM DUST, DEBRIS AND WEATHER. MAINTAIN COVERING OF DUCT AND EQUIPMENT ONCE INSTALLED. SEAL ENDS OF THE DUCT AT THE END OF EACH DAY TO PROTECT THE INSIDE OF THE DUCTS. DUCTS NOT PROTECTED AND FOUND TO BE DIRTY AT FINAL INSPECTION SHALL BE CLEANED TO NEW CONDITION.
- SUPPORT ALL DUCT FROM STRUCTURE ABOVE OR ON FABRICATED DUCT SUPPORTS. ALL BUILDING ATTACHMENTS, HANGER RODS, AND STRUCTURAL SUPPORTS SHALL BE GALVANIZED STEEL. HANGER RODS MAY BE PLATED STEEL. PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.
- FABRICATE AND INSTALL DUCT PER SMACNA STANDARDS FOR 2-INCH WC FOR ALL DUCTWORK. USE GALVANIZED METAL (26 GAUGE MINIMUM). SEAL ALL LONGITUDINAL AND TRAVERSE JOINTS AS REQUIRED BY CURRENT SMACNA AND ENERGY CODE STANDARDS FOR MINIMUM OF WC INDICATED ABOVE.
- WHERE RECTANGULAR DUCT IS INDICATED, RADIUS ELBOWS & TEES SHALL HAVE CENTERLINE RADIUS OF 1.5 X DUCT WIDTH. SQUARE ELBOWS SHALL INCLUDE TURNING VANES. NO VANES SHALL BE REMOVED FROM THE VANE RUNNER. VANES WITH TRAILING EDGES SHALL NOT BE USED. RECTANGULAR RADIUS ELBOWS WITH RADIUS/WIDTH GREATER THAN 1 AND RADIUS THROAT ARE ALLOWED. WHEN RADIUS ELBOWS ARE USED, CONTRACTOR IS RESPONSIBLE FOR SPACE COORDINATION REQUIREMENTS BEFORE INSTALL. ALL DUCT JOINTS, SEAMS & BRANCH TAKEOFFS SHALL BE SEALED AIR-TIGHT WITH DUCT SEALANT EQUAL TO HARDCAST IRON-GRIP. ROLLED FORM FLANGE TYPE JOINTS WITH GASKETS BOLTED CORNERS AND CLIPS MAY BE USED PROVIDING AN AIR TIGHT SEAL AND REINFORCING.
- PRIOR TO FABRICATION, MECHANICAL CONTRACTOR SHALL FIELD VERIFY STRUCTURAL OBSTRUCTIONS & CEILING SPACE LIMITATIONS AND MAKE NECESSARY DUCT MODIFICATIONS INCLUDING CHANGING OF ASPECT RATIOS, ADDING OFFSETS, AND SHIFTING LOCATIONS. PROTECT DUCT BY STORING IN A CLEAN AND DRY ENVIRONMENT PRIOR TO INSTALLATION. COVER ENDS OF EXPOSED WORK AT THE END OF EVERY SHIFT.
- ROUND RUNOUTS ON RECTANGULAR DUCTS SHALL HAVE SIDE TAKEOFFS WITH GASKET & DAMPER, RECTANGULAR BRANCH DUCTS SHALL HAVE 45 DEGREE TAPS WITH AIR EXTRACTOR AND ALL TEES SHALL HAVE SPLITTER DAMPERS. PROVIDE ANY OTHER DEVICES REQUIRED TO BALANCE AIR SYSTEM.
- FLEX DUCT SHALL BE FACTORY INSULATED, HAVE ACOUSTICAL INNER CORE AND HAVE METALIZED VAPOR BARRIER. SEAL FLEX TO HARD CONNECTIONS WITH MASTIC. BOTH ENDS SHALL BE SECURED WITH NYLON BANDS AND METALIZED DUCT TAPE PER MFG'S RECOMMENDATIONS AND IN ACCORDANCE WITH U.L. 181B. BEND RADIUS SHALL NOT BE LESS THAN ONE DUCT DIAMETER. PROVIDE "FLEXFLOW ELBOW" SUPPORT BY THERMAFLEX, OR EQUAL, AT EACH DIFFUSER. SUSPEND FLEXIBLE DUCTS WITH BANDS 1-1/2 INCHES WIDE OR WIDER AND SPACED A MAXIMUM OF 48 INCHES APART. MAXIMUM CENTERLINE SAG BETWEEN SUPPORTS SHALL NOT EXCEED 1/2 INCH PER 12 INCHES. DO NOT BEND DUCTS ACROSS SHARP CORNERS. AVOID CONTACT WITH METAL FIXTURES, CEILING GRIDS, WATER LINES, PIPES, OR CONDUITS.
- WHERE ROUND OR FLAT OVAL DUCT IS INDICATED, DUCT SHALL BE SPIRAL LOCKSEAM WITH EPDM GASKETED FITTINGS. LARGE FLAT OVAL SIZES MAY USE BOLTED AND GASKETED ROLLED FLANGE TYPE JOINTS. WHERE DOUBLE WALL SPIRAL DUCT IS INDICATED THE DUCT SHALL BE DOUBLE WALL WITH FACTORY INSTALLED GASKET FITTINGS. OUTER SHELL SHALL BE PAINT GRP GALVANIZED (ASTM A653) STEEL. INNER SHELL SHALL BE PERFORATED GALVANIZED STEEL INSULATION SHALL BE 1-INCH THICK 1 LB. DENSITY WITH MIN. R-VALUE OF 3.8
- RIGID ROUND AND RECTANGULAR DUCT SHALL BE EXTERNALLY INSULATED WITH 3/4 LB. DENSITY FIBERGLASS BLANKET WITH FSK VAPOR BARRIER. STAPLE AND SEAL ALL JOINTS WITH 3-INCH WIDE METALIZED DUCT TAPE EQUAL TO SHURFLEX SF-683.
- PROVIDE 1/2-INCH, 1.5 LB. DENSITY ACOUSTICAL LINER AT EACH A/C UNIT SUPPLY AND RETURN CONNECTION FOR SOUND ATTENUATION. TERMINATE LINER AT 10-FT. FROM UNIT, AT FIRST ELBOW OR AS NOTED ON PLANS. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER. DUCT SHALL BE WRAPPED WITH INSULATION IN ADDITION TO ACOUSTICAL LINER.
- RECTANGULAR DUCT INDICATED AS BEING BE INTERNALLY LINED SHALL USE 1-INCH THICK, 1.5 LB. DENSITY LINER EQUAL TO CERTAINTED TOUCHGARD. LINER SHALL MEET REQUIREMENTS OF ASTM C 665 AND ASTM G 21 & G 22 FOR RESISTANCE TO FUNGAL AND BACTERIAL ATTACK. LINER SHALL BE INSTALLED WITH PINS & ADHESIVE AS RECOMMENDED BY MFG. & SMACNA. DUCT SIZES ON PLANS ARE METAL DIMENSIONS AND INCLUDE ALLOWANCES FOR LINER.
- INSULATE & SEAL ALL GRILLE & DIFFUSER NECKS TO MAINTAIN VAPOR BARRIER AND ELIMINATE CONDENSATION.
- PER 2018 NCMC 607.5.3, DUCTS AND AIR TRANSFER OPENINGS THAT PENETRATE FIRE PARTITIONS SHALL BE PROTECTED WITH LISTED FIRE DAMPERS INSTALLED IN ACCORDANCE WITH THEIR LISTING. EXCEPTION WOULD BE SUCH WALLS ARE PENETRATED BY DUCTED HVAC SYSTEMS, HAVE A REQUIRED FIRE-RESISTANCE RATING OF 1 HOUR OR LESS, AND ARE IN AREAS OF OTHER THAN GROUP H AND ARE IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1 OR 903.3.1.2 OF THE INTERNATIONAL BUILDING CODE. FOR THE PURPOSES OF THIS EXCEPT HVAC SYSTEMS, A DUCTED HVAC & A DUCT SYSTEM FOR CONVEYING SUPPLY, RETURN OR EXHAUST AIR AS PART OF THE STRUCTURE'S HVAC SYSTEM. SUCH A DUCT SYSTEM SHALL BE CONSTRUCTED OF SHEET STEEL NOT LESS THAN 26 GAGE IN THICKNESS AND SHALL BE CONTINUOUS FROM THE AIR-HANDLING APPLIANCE OR EQUIPMENT TO THE AIR OUTLET AND INLET TERMINALS.
- A LISTED SMOKE DAMPER SHALL BE PROVIDED AT EACH POINT A DUCT OR AIR TRANSFER OPENING PENETRATES A SMOKE BARRIER WALL OR A CORRIDOR ENCLOSURE REQUIRED TO HAVE SMOKE AND DRAFT CONTROL DOORS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. SMOKE DAMPERS ARE NOT REQUIRED IN CORRIDOR PENETRATIONS WHERE THE DUCT IS CONSTRUCTED OF STEEL NOT LESS THAN 0.019 INCH (0.48 MM) IN THICKNESS AND THERE ARE NO OPENINGS SERVING THE CORRIDOR.
- PROVIDE 3M FIRE BARRIER DUCT WRAP 615+, FIREMASTER FASTWRAP XL, OR EQUAL, ON THE KITCHEN HOOD EXHAUST DUCT.
- DRYER DUCT PENETRATING FIRE WALLS SHALL NOT HAVE FIRE DAMPERS. DUCT SHALL BE GALVANIZED STEEL AND OF A THICKNESS AS SPECIFIED IN SECTION 603.4 OF THE NC MECHANICAL CODE AND THE FIRE-RESISTANCE RATING IS MAINTAINED

HEAT PUMP (INDOOR UNIT) SCHEDULE																
MARK	SUPPLY FAN				NOMINAL COOLING CAPACITY			AUX. HEAT		VOLT/PH	FLA	MCA	MOCP	REF. MANF.	REF. MODEL	WEIGHT
	SA CFM	OA CFM	EXT SP	MTR HP	EAT(DB/WB)	TOT CAP	SEN CAP	⊙ 208V								
AH-1	1050	150	0.5"	1/2	77°/68°	32.8 MBH	21.3 MBH	7.7 KW		240/1⌀	36	45	45A	TRANE	STEM4D04	145 LBS.
AH-2	1225	300	0.5"	1/2	78°/68°	32.8 MBH	21.3 MBH	7.7 KW		240/1⌀	36	45	45A	TRANE	STEM4D04	145 LBS.
AH-3	1050	100	0.5"	1/2	78°/65°	32.8 MBH	21.3 MBH	7.7 KW		240/1⌀	36	45	45A	TRANE	STEM4D04	145 LBS.
AH-4	875	170	0.5"	1/2	78°/68°	27.4 MBH	20.0 MBH	4.8 KW		240/1⌀	24	30	30A	TRANE	STEM4D04	145 LBS.
AH-5	1225	125	0.5"	1/2	78°/65°	37.8 MBH	26.3 MBH	7.7 KW		240/1⌀	36	45	45A	TRANE	STEM4D04	145 LBS.

NOTES:

- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
 - SINGLE POINT WIRING CONNECTION
 - TXV MATCHING CONDENSER CAPACITY
 - 7-DAY PROGRAMMABLE THERMOSTAT WITH LOCKOUT FUNCTION
 - ECM FAN MOTORS
- PROVIDE AH-5 UNDER BID ALTERNATE #1
- PROVIDE ALL AIR HANDLERS WITH CONDENSATE PUMP

HEAT PUMP (OUTDOOR UNIT) SCHEDULE												
MARK	EAT(DB)	NOM CAP	VOLT/PH	FLA	MCA	MOCP	MIN. SEER	HSPF	REF. MANF.	REF. MODEL	WEIGHT	
HP-1	95°	3.0 TONS	240/1⌀	14	18	30A	14.0 SEER	7.5	TRANE	4TWR4036	230 LBS.	
HP-2	95°	3.5 TONS	240/1⌀	20	24	40A	14.0 SEER	7.5	TRANE	4TWR4042	230 LBS.	
HP-3	95°	3.0 TONS	240/1⌀	14	18	30A	14.0 SEER	7.5	TRANE	4TWR4036	230 LBS.	
HP-4	95°	2.5 TONS	240/1⌀	11	15	25A	14.0 SEER	7.5	TRANE	4TWR4030	230 LBS.	
HP-5	95°	3.5 TONS	240/1⌀	20	24	40A	14.0 SEER	7.5	TRANE	4TWR4042	230 LBS.	


NOTES:

- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
 - 5 YEAR COMPRESSOR WARRANTY
 - COMPRESSOR ANTI SHORT CYCLE DELAY
 - CRANKCASE HEATERS
 - HIGH AND LOW PRESSURE SWITCHES
 - OUTDOOR THERMOSTAT
 - LOW AMBIENT CONTROL TO 45°
 - SPECIALTIES FOR LONG-LINE APPLICATION
 - EXTREME CONDITION MOUNT KIT
- M.C. SHALL COORDINATE PRODUCT SPECIFIC ELECTRICAL REQUIREMENTS WITH E.C..
- PROVIDE HP-5 UNDER BID ALTERNATE #1.

PACKAGED HEAT PUMP SCHEDULE																			
MARK	SUPPLY FAN					COOLING CAPACITY			AUXILIARY HEAT		VOLT/PH	FLA	MCA	MOCP	MIN. RATING	HSPF2	REF. MANF.	REF. MODEL	WEIGHT
	SA CFM	OA CFM	EXT SP	MTR HP	EAT(DB/WB)	TOT CAP	SEN CAP	● 240V/1ϕ	STAGES										
RTU-1	1400	280	0.5"	3/4	78°/67°	47 MBH	32 MBH	10 KW	1	240/1ϕ	67	75	80	13.4 SEER2	7.0	TRANE	42CC4048E	530LB	


NOTES:

- ELECTRICAL DATA WAS NOT AVAILABLE FROM TRANE FOR SINGLE POINT WIRING DURING DESIGN. COORDINATE WITH E.C. UPON FINAL SELECTION OF EQUIPMENT.
- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
 - 5 YEAR COMPRESSOR WARRANTY
 - SINGLE POWER ENTRY KIT
 - COMPRESSOR ANTI SHORT CYCLE DELAY
 - CRANKCASE HEATERS
 - HIGH AND LOW PRESSURE SWITCHES
 - LOW AMBIENT CONTROL TO 45°
 - MANUAL OUTSIDE AIR ~ 25% O.A.
 - COIL GUARD
 - FILTER FRAME WITH 1" PLEATED FILTERS
 - 14 INCH HIGH ROOF CURB
 - 7 DAY ELECTRONIC PROGRAMMABLE THERMOSTAT
 - ECM FAN MOTOR

 DUCTLESS AIR CONDITIONER SCHEDULE																
INDOOR UNIT					OUTDOOR UNIT											
MARK	SUPPLY FAN	REF. MANF.	REF. MODEL	WEIGHT	MARK	EAT(DB) SUM	TOT CAP CLG	VOLT/PH	FLA	MCA	MOCP	MIN. RATING	REF. MANF.	REF. MODEL	WEIGHT	
	SA CFM															
AC-1	557	DAIKEN	FTXM12VWJU	30 LBS	CU-1	75°/65°	12 MBH	208/1ø	12	12	15	25 SEER	DAIKEN	RXM12VWJU	96 LBS.	

NOTES:

- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES FOR THE INDOOR SECTION:
 - SINGLE POINT WIRING CONNECTION (INDOOR UNIT POWERED VIA OUTDOOR UNIT)
 - TXV MATCHING CONDENSER CAPACITY
 - WIRED REMOTE CONTROLLER
 - DRAIN PUMP
- PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES FOR THE OUTDOOR SECTION:
 - 5 YEAR COMPRESSOR WARRANTY
 - COMPRESSOR ANTI SHORT CYCLE DELAY
 - HIGH AND LOW PRESSURE SWITCHES
 - LOW AMBIENT CONTROL TO 10°
 - COIL GUARD
- MAX PIPING LENGTH IS 95 FEET

 WALL EXHAUST FAN SCHEDULE													
MARK	TYPE	CFM	ESP	TSP	HP	VOLT/PH	FLA	WALL OPENING	REF. MANF.	REF. MODEL	*SONES	WEIGHT	NOTES
WF-1	WALL	4,500	0.25"	0.44"	2	240/1ϕ	12.5	34" x 34"	GREENHECK	AER-24-02-0620-VG	15	250	1
WF-2	WALL	250	0.20"	0.28"	1/20	120/1ϕ	1	16.25" x 16.25"	GREENHECK	SE1-10-428-P	10	70 LBS	1,2
WF-3	WALL	275	0.15"	0.19"	.03	120/1ϕ	2.85	19.25" x 19.25"	GREENHECK	SE1-12-432-VG	4.3	73 LBS	1,2

NOTES:

- PROVIDE WITH:
 - WALL HOUSING, FLUSH WITH EXTERIOR WITH PERMATECTOR COATING. COLOR SELECTED BY ARCHITECT.
 - DISCONNECT
 - DAMPER, MOTOR OPERATOR, MOUNTED AND WIRED
 - SINGLE POINT WIRING, WITH GREENHECK VARI-GREEN DRIVE, OR EQUAL.
- PROVIDE WITH WALL SWITCH.

LOUVER SCHEDULE										
MARK	SERVICE	SIZE	CFM	SP	FREE AREA	MATERIAL	REF. MANF.	REF. MODEL	NOTES	
WL-1	INTAKE	36"Wx30"H	2250	0.18"	3.27 SQ. FT.	ALUMINUM	GREENHECK	EHV-550	1,2,3	QTY (2)

NOTES:

- PROVIDE WITH BIRD SCREEN, EXTENDED SILL & 2 COATS OF KYNAR FINISH (AAMA 2605).
- SUBMIT LOUVER TYPE & COLOR PALETTE TO ARCHITECT FOR COLOR SELECTION.
- PROVIDE WITH BACKDRAFT DAMPER AND 120V OPERATOR INTERLOCKED WITH ASSOCIATED FAN.
- LOUVERS SHALL BE LICENSED TO BEAR THE AMCA CERTIFIED RATINGS PROGRAM SEAL FOR PERFORMANCE, WINDDRIVEN RAIN AND WATER PENETRATION IN ACCORDANCE WITH AMCA PUBLICATION 511.
- BEGINNING POINT OF WATER PENETRATION SHALL BE NO LESS THAN 1000FPM FREE AREA VELOCITY.
- HURRICANE LOUVERS SHALL BE AMCA 540 AND 550 CERTIFIED.

ROOF CAP SCHEDULE								
MARK	USAGE	CFM RANGE	SP DROP	SIZE	MATERIAL	REF. MANF.	REF. MODEL	NOTES
RC-1	INTAKE	150	0.06"	8"⌀	ALUMINUM	GREENHECK	GRS-8	1
RC-2	INTAKE	600	0.06"	15"⌀	ALUMINUM	GREENHECK	GRS-15	1
RC-3	EXHAUST	200	0.06"	10"⌀	ALUMINUM	GREENHECK	GRS-10	1
RC-4	EXHAUST	600	0.06"	12"⌀	ALUMINUM	GREENHECK	GRS-12	1

NOTES:

- PROVIDE WITH BIRDSCREEN & ROOF CURB FOR FLAT ROOF INSTALLATION.

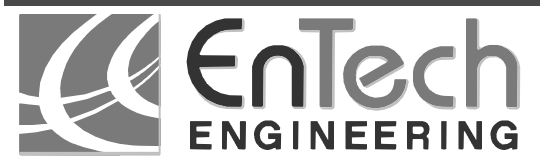
EXHAUST FAN SCHEDULE											
MARK	TYPE	CFM	ESP	WATTS	VOLT/PH	REF. MANF.	REF. MODEL	*SONES	WEIGHT	NOTES	CONTROL
EF-1	CEILING	109	0.25"	20	120/1⌀	GREENHECK	SP-A125	0.6	17 LBS	1,2	A
EF-2	CEILING	360	0.25"	134	120/1⌀	GREENHECK	SP-A390	2	25 LBS	1,2	B
EF-3	IN-LINE	75	1.1"	70	120/1⌀	FANTECH	DEDPV-705	2	10 LBS	1,3,4	C



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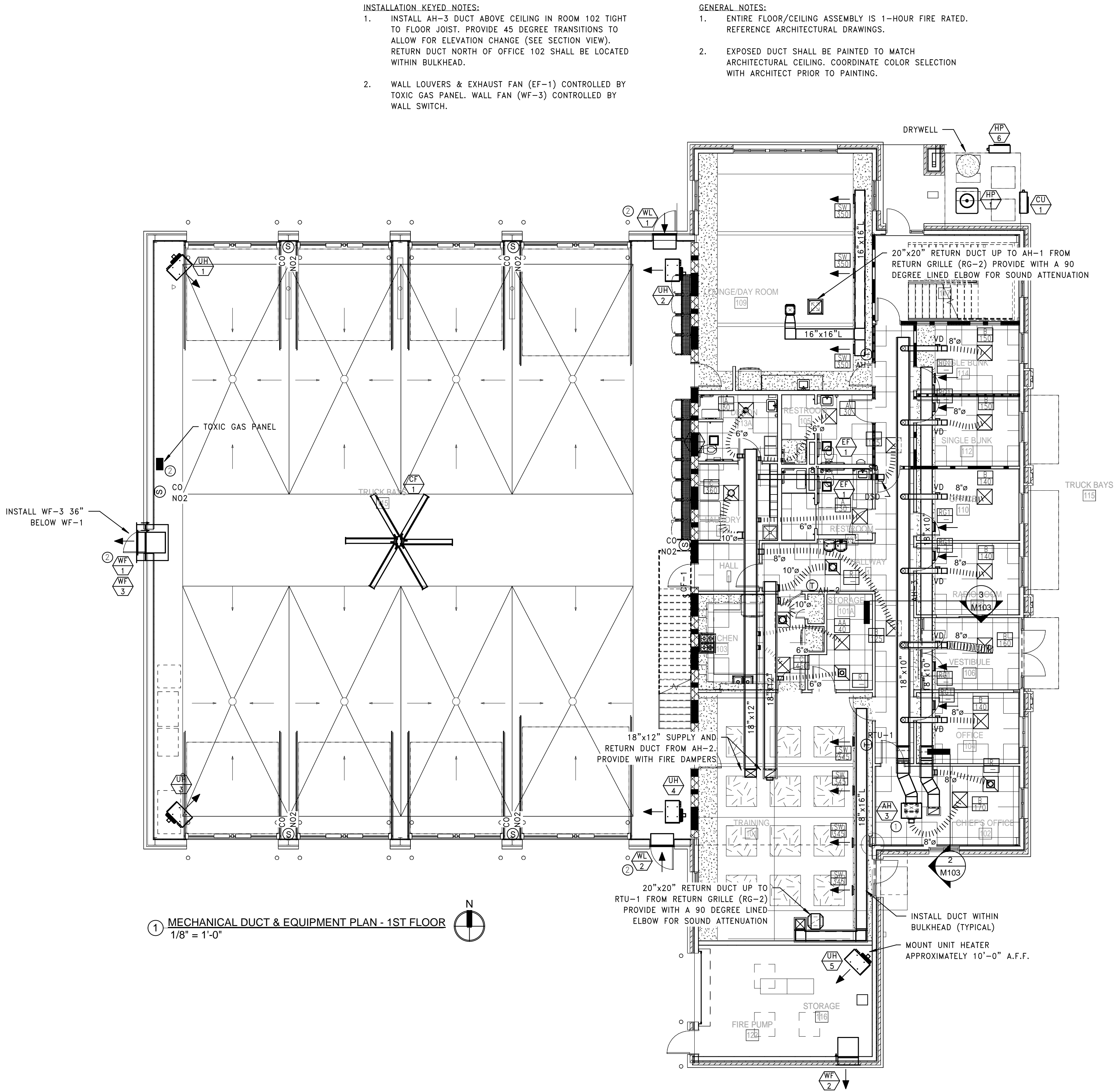
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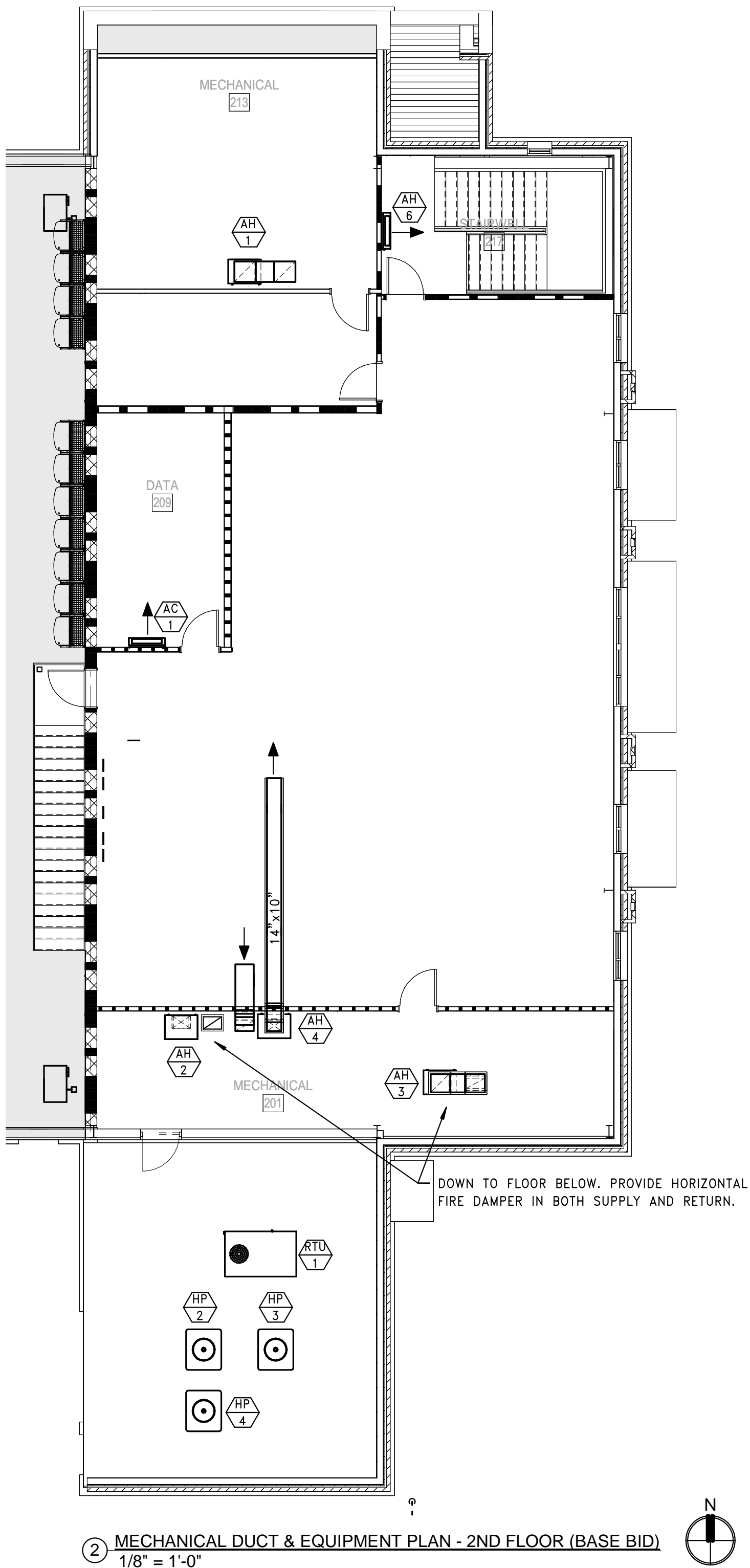
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PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER
**MECHANICAL DUCT &
EQUIPMENT PLAN**

M101



① MECHANICAL DUCT & EQUIPMENT PLAN - 1ST FLOOR
1/8" = 1'-0"



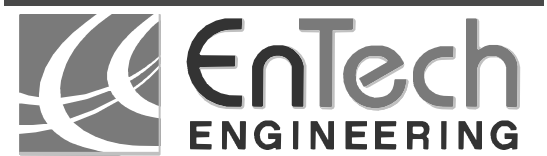
② MECHANICAL DUCT & EQUIPMENT PLAN - 2ND FLOOR (BASE BID)
1/8" = 1'-0"



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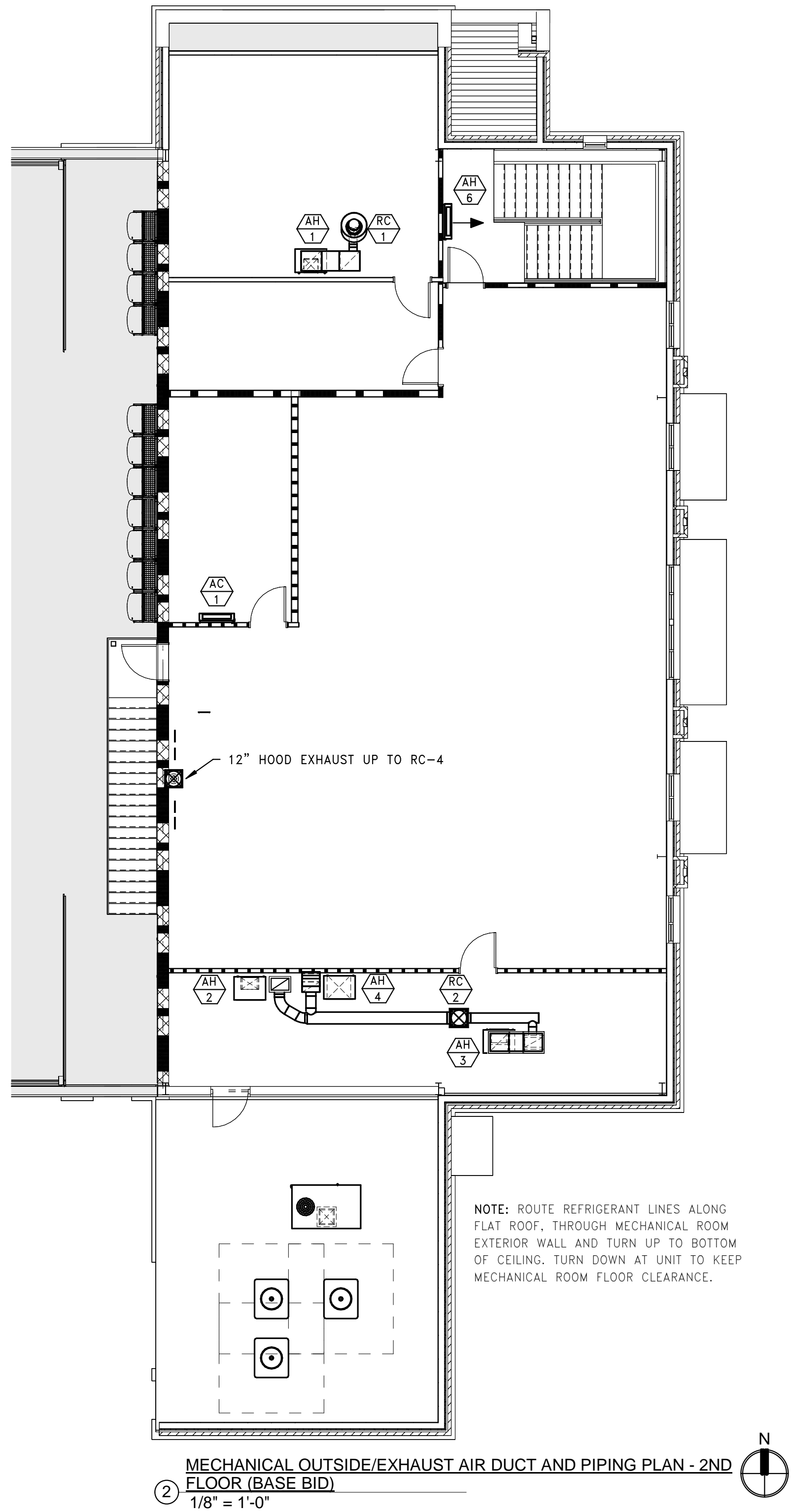
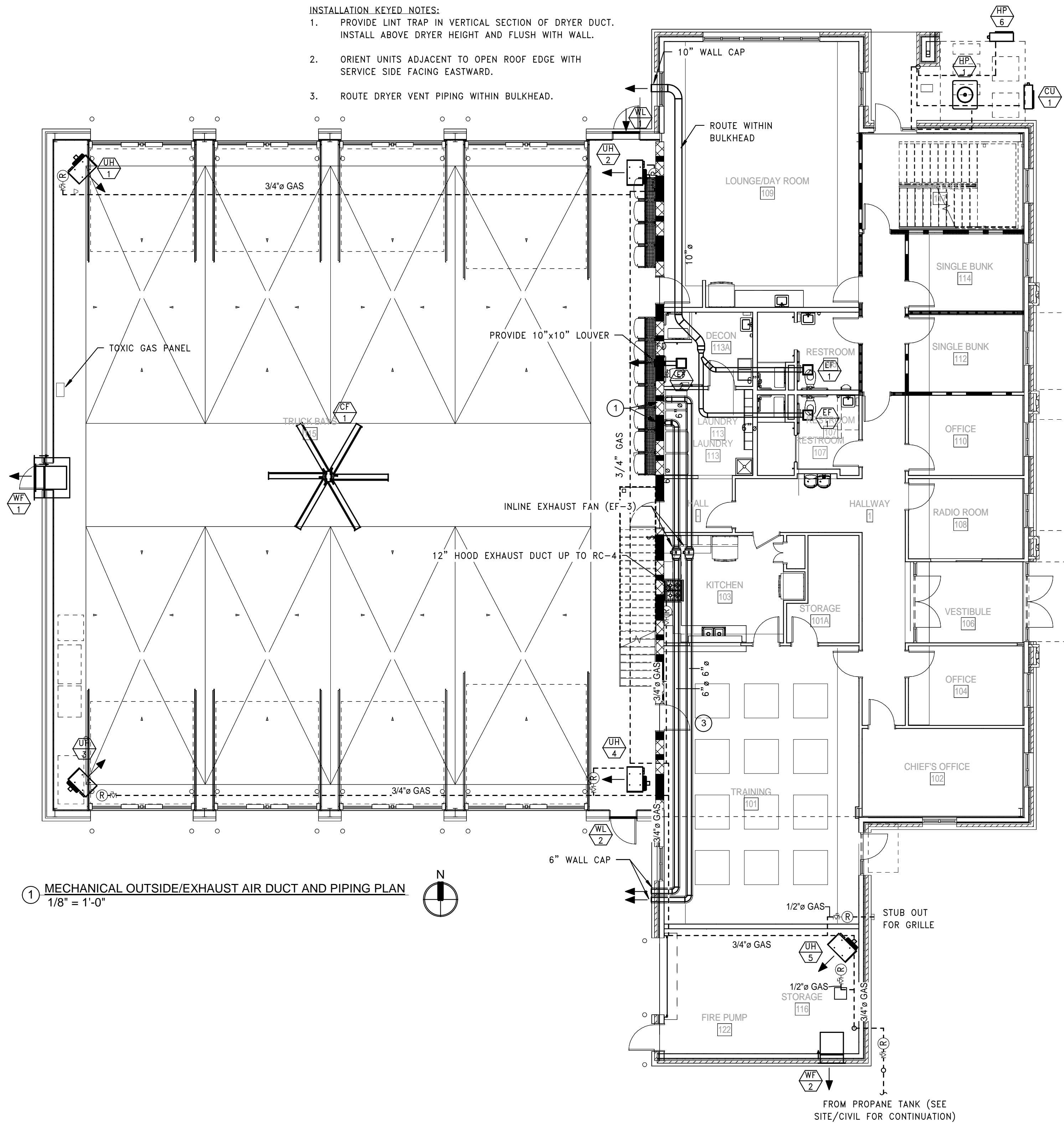
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SHEET NAME & NUMBER

MECHANICAL OUTSIDE/EXHAUST
AIR AND PIPING PLAN

M102





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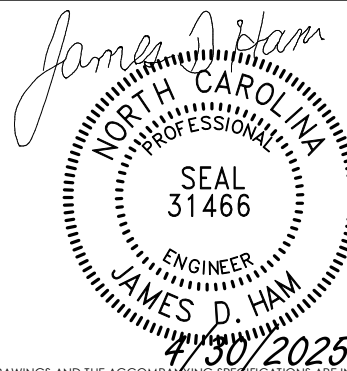
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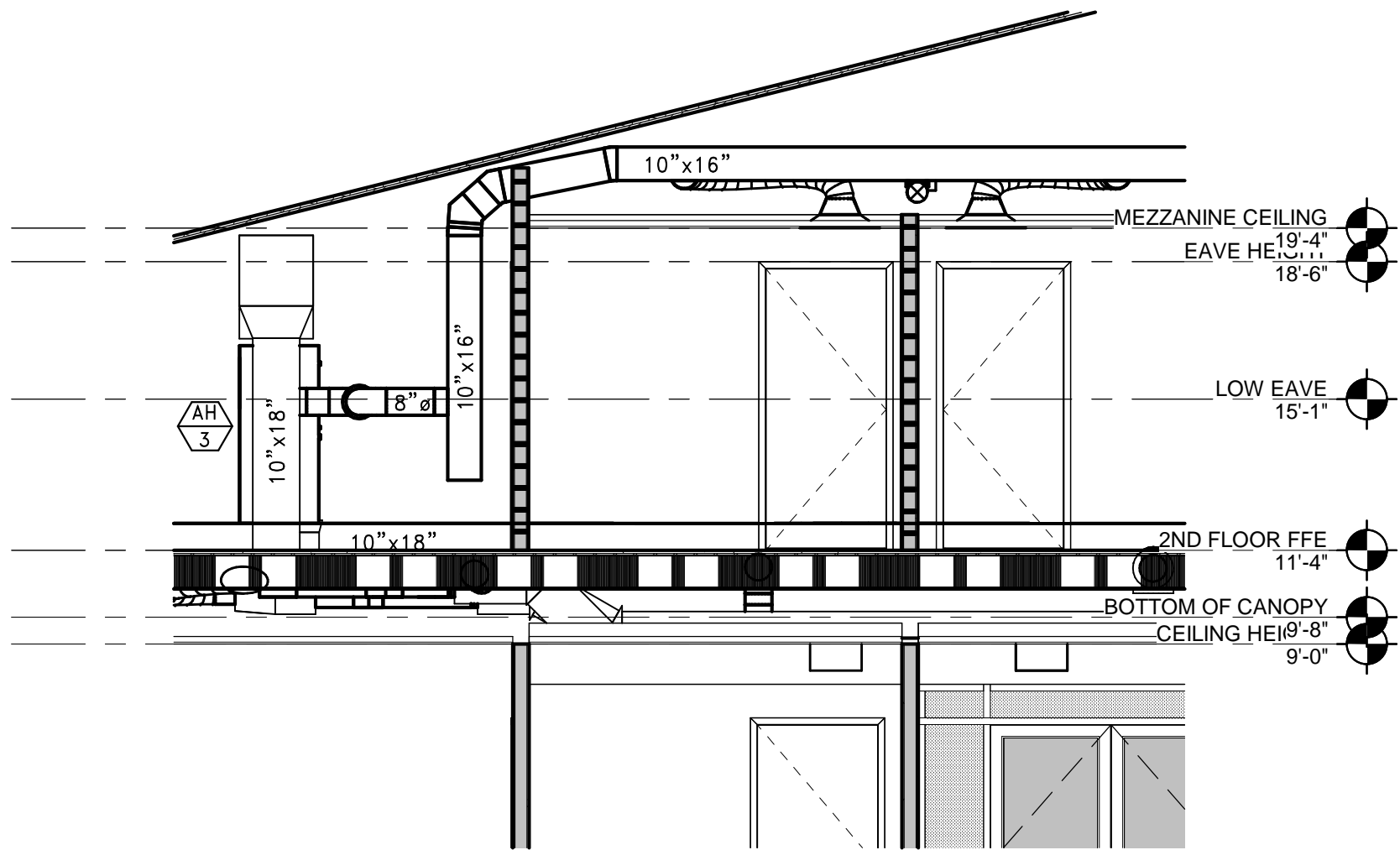
SHEET NAME & NUMBER

MECHANICAL OUTSIDE/EXHAUST
AIR AND PIPING PLAN -
MEZZANINE (ALTERNATE)

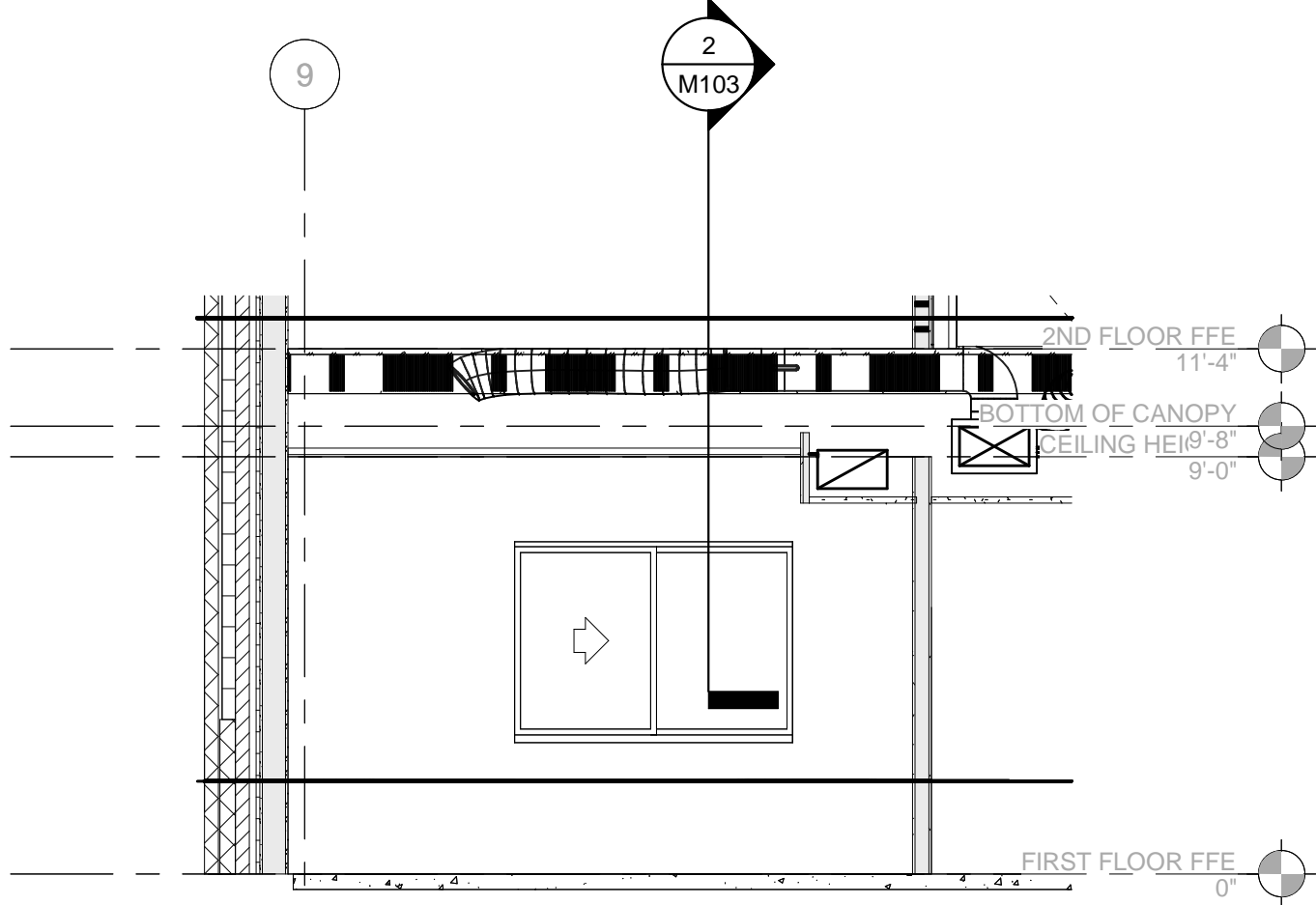
M103

INSTALLATION KEYED NOTES:

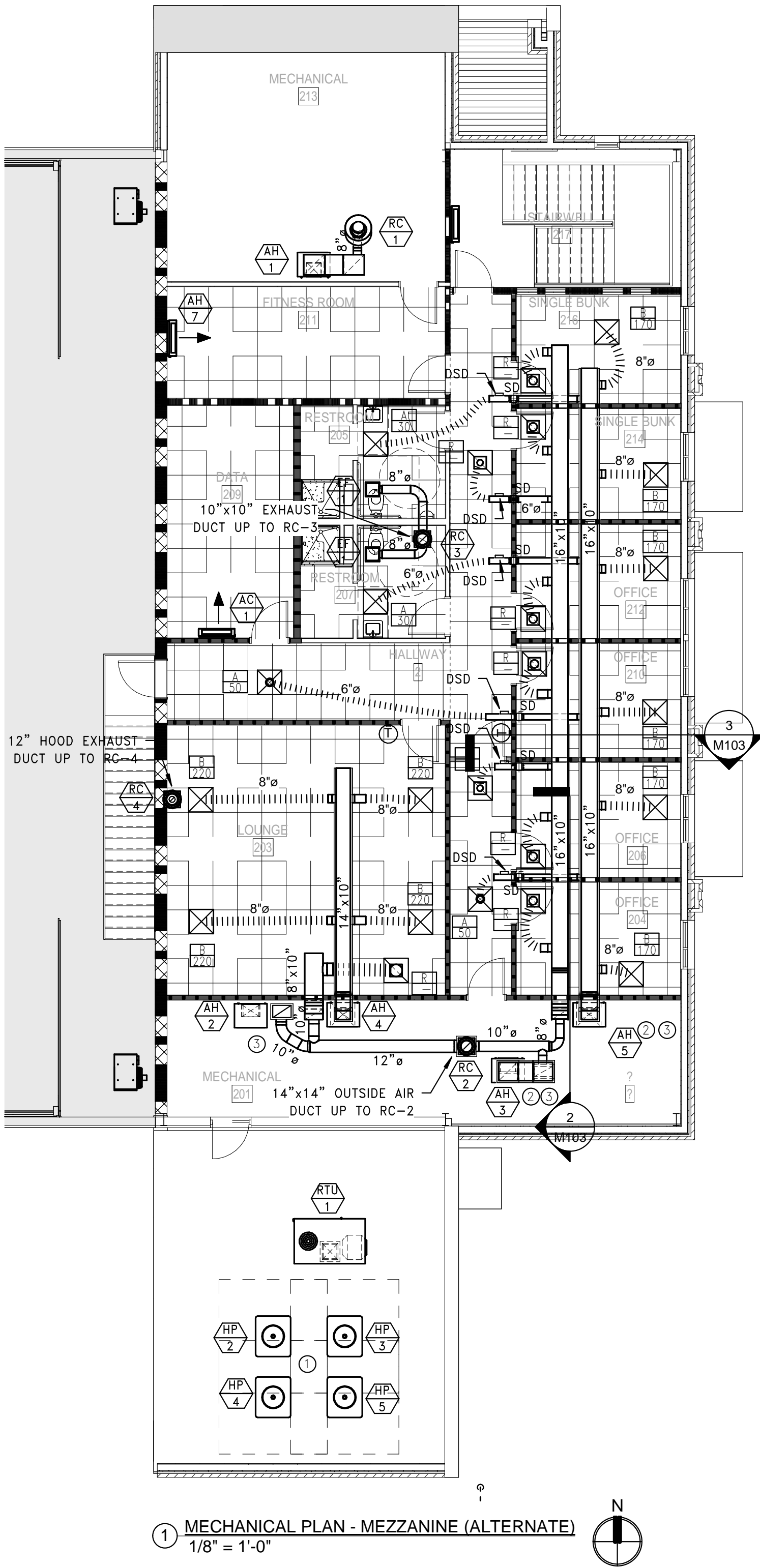
1. PROVIDE REFRIGERANT LINE TO 2ND FLOOR MECHANICAL ROOM FOR FUTURE UNIT IN FITNESS ROOM.
2. PROVIDE DUCT SMOKE DETECTOR ON RETURN DUCT FOR AH-3 AND AH-5.
3. ROUTE CONDENSATE TO FLAT ROOF.



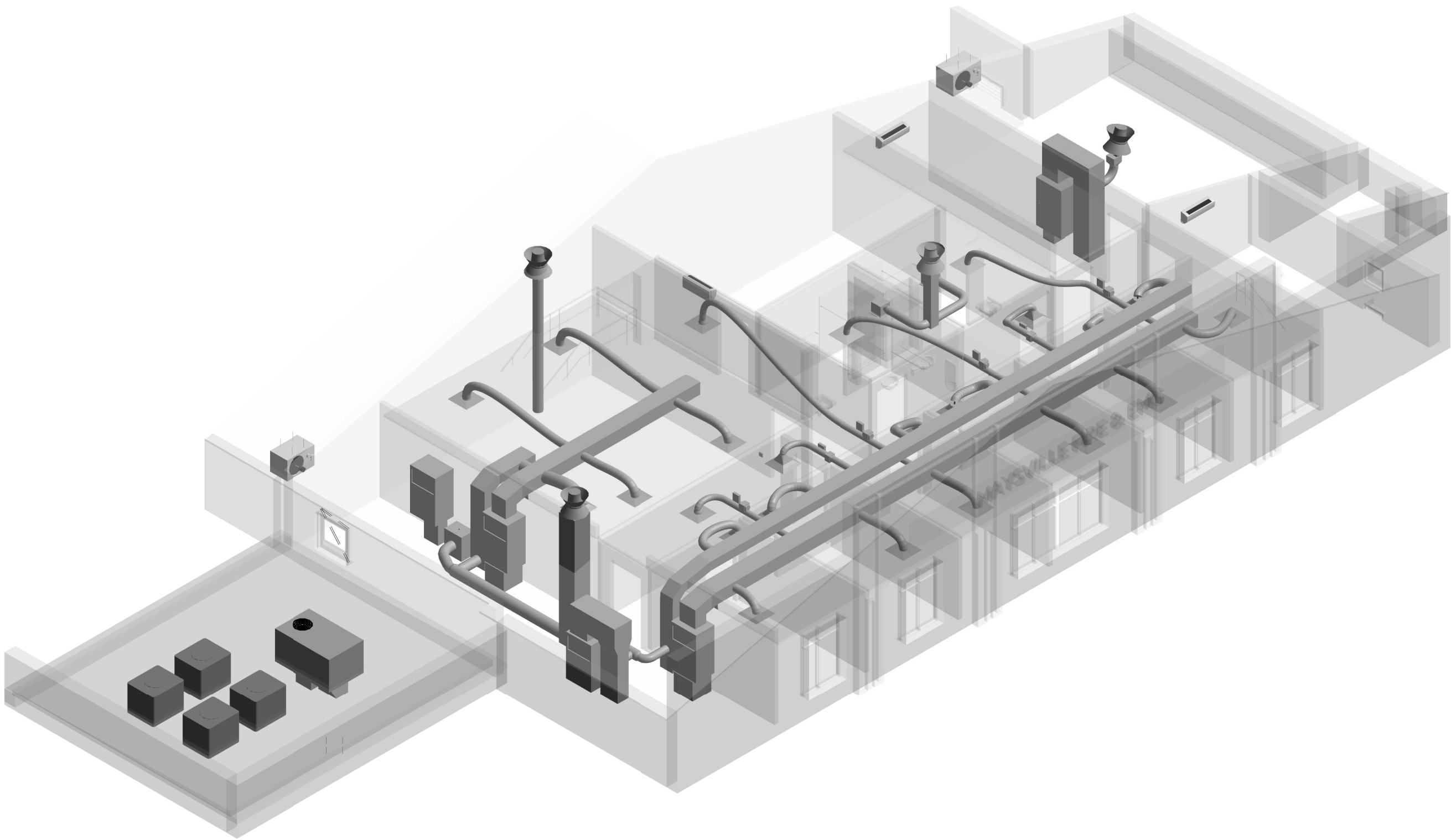
② MECHANICAL SECTION
1/4" = 1'-0"



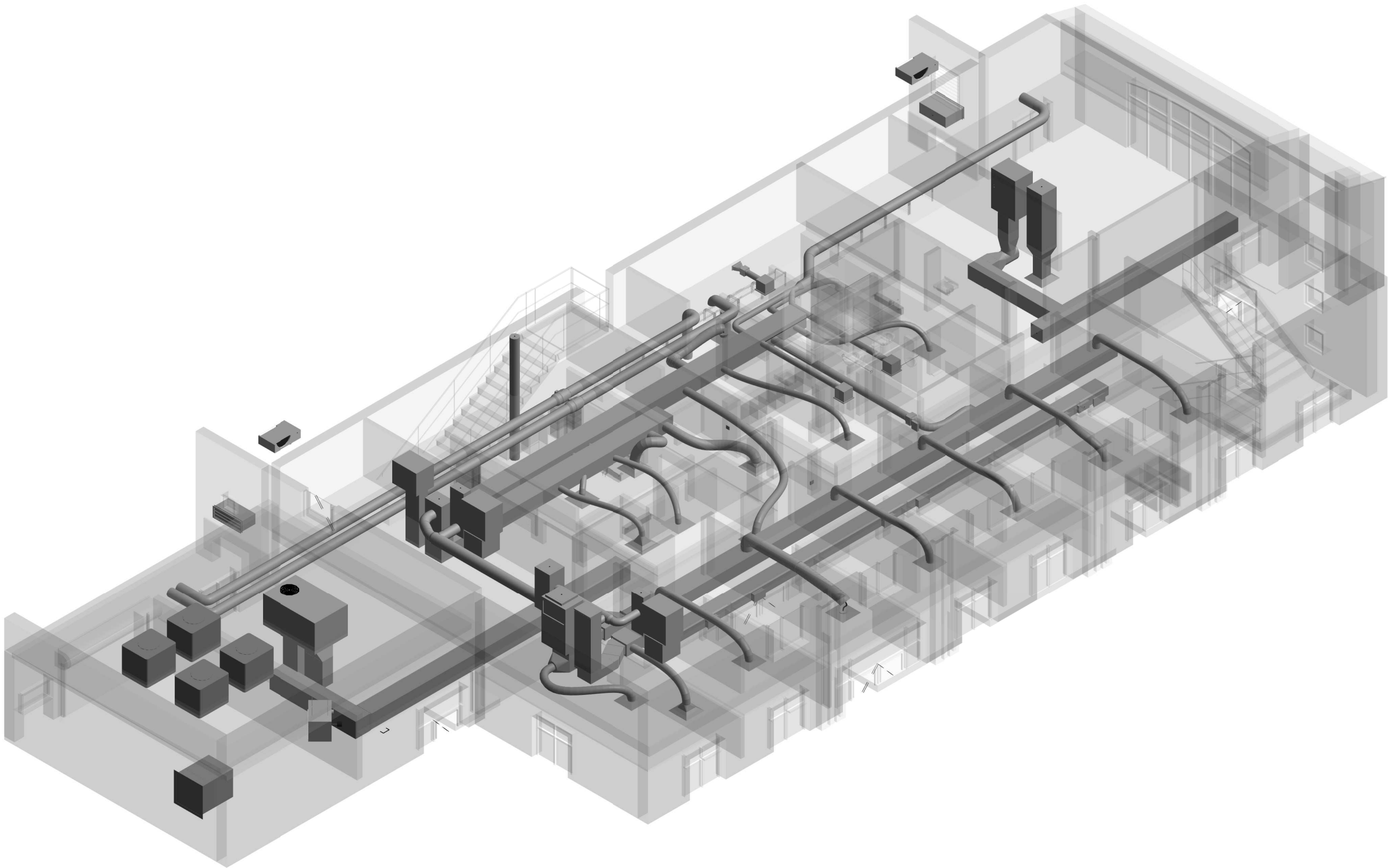
③ MECHANICAL SECTION 2
1/4" = 1'-0"



① MECHANICAL PLAN - MEZZANINE (ALTERNATE)
1/8" = 1'-0"



② MECHANICAL 2ND FLOOR 3D



① MECHANICAL 1ST FLOOR 3D

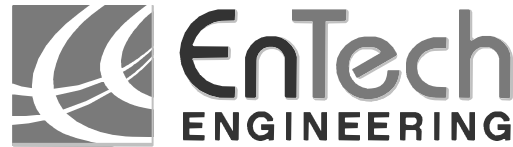


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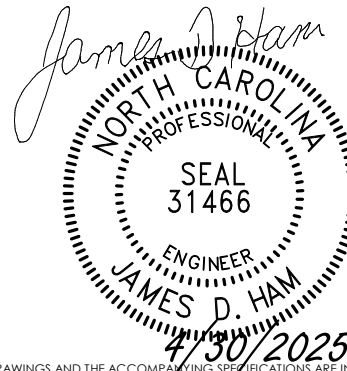
MAYSVILLE FIRE STATION

603 4TH STREET
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P.O. BOX 11527 NC LIC # C-1132
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TEL: (919) 778-9064

PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY D. HILL



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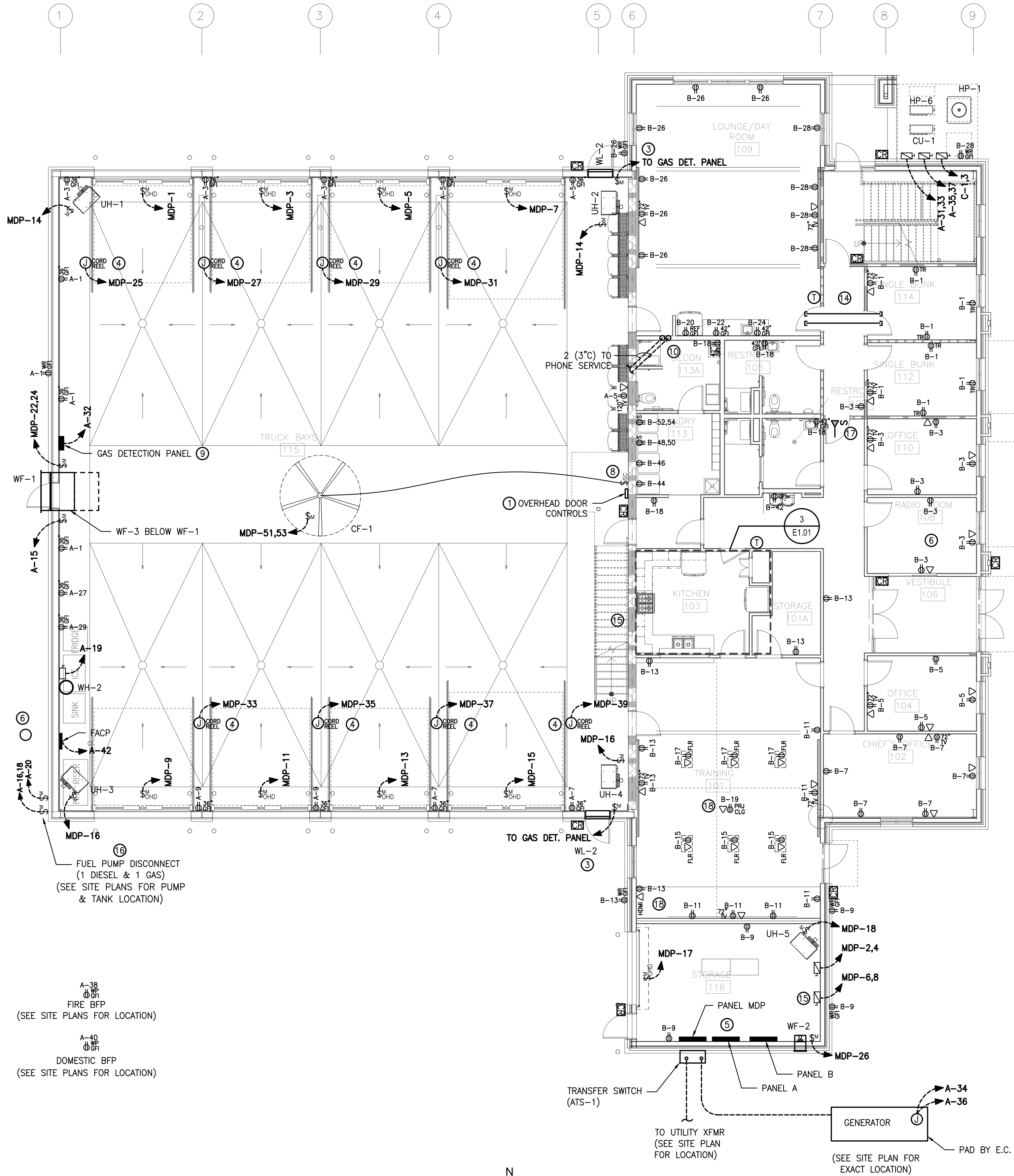
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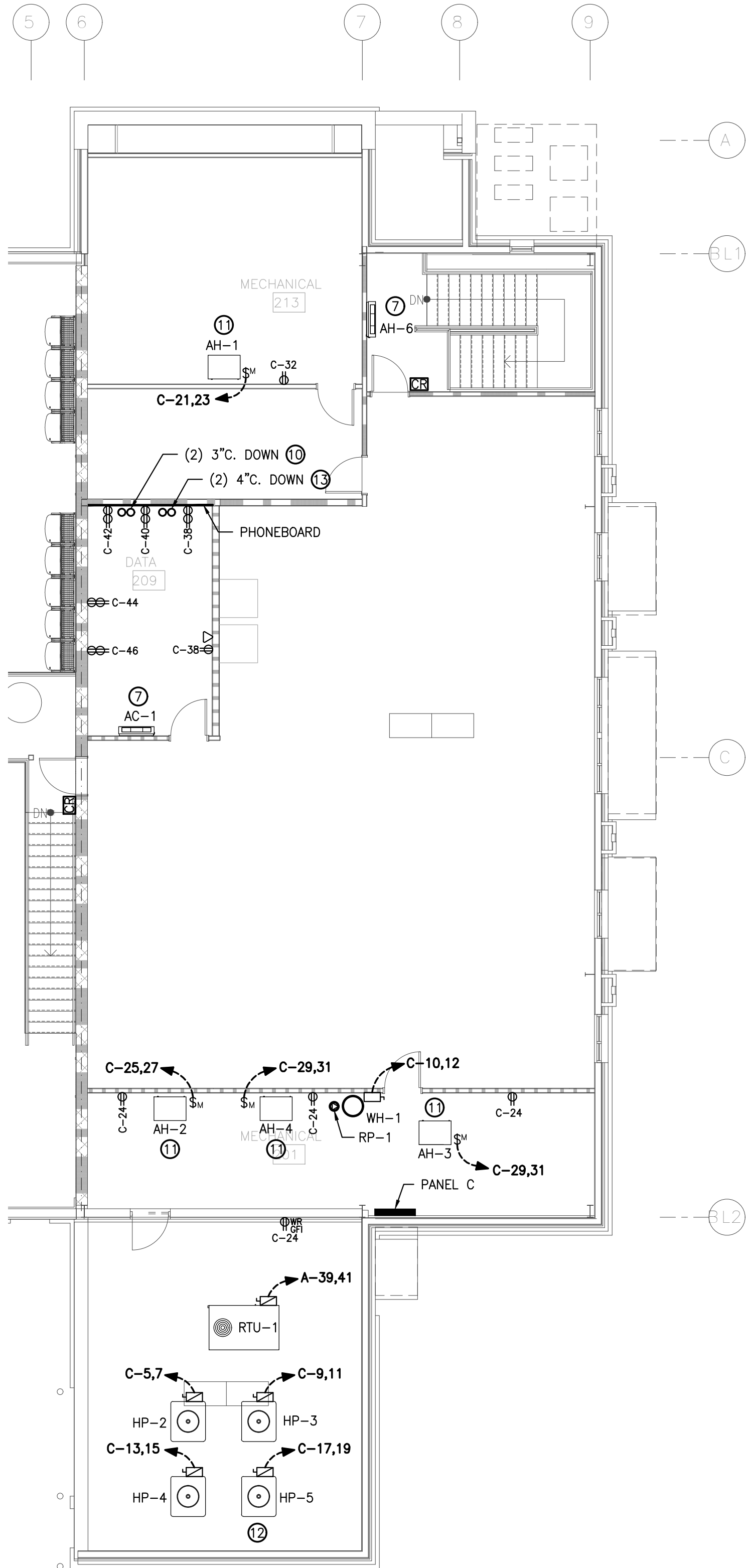
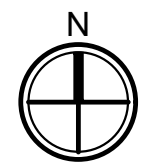
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MECHANICAL 3D SECTION
VIEWS

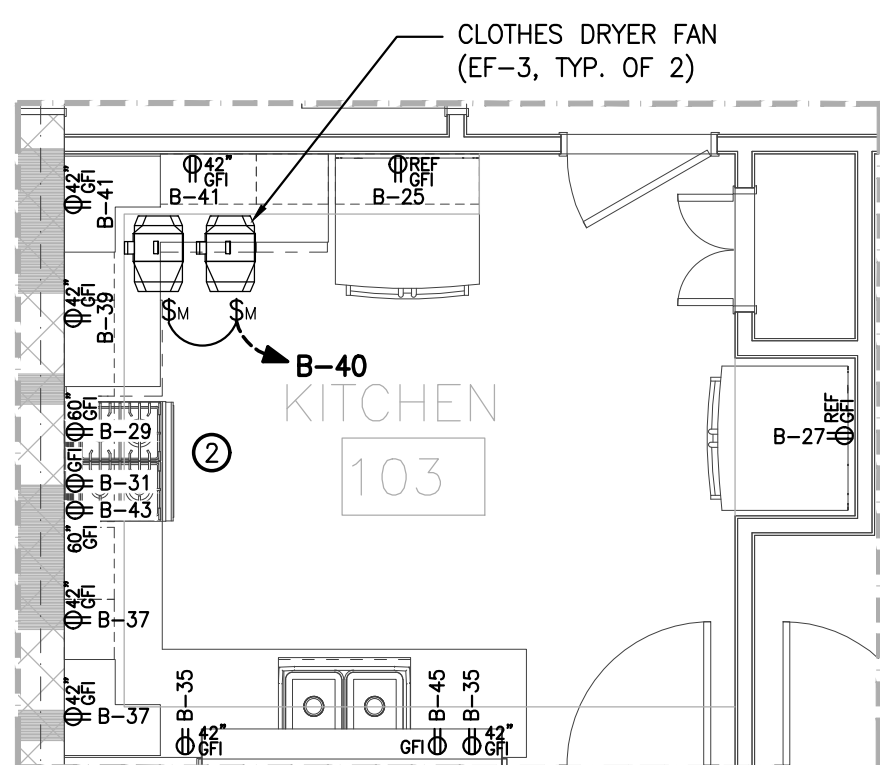
M104



1 ELECTRICAL POWER AND RECEPTACLE PLAN - FIRST FLOOR (BASE BID)
SCALE: 1/8" = 1'-0"



2 ELECTRICAL POWER AND RECEPTACLE PLAN - MEZANINE (BASE BID)
SCALE: 1/8" = 1'-0"



3 ELECTRICAL POWER PLAN - ENLARGED KITCHEN
SCALE: 1/4" = 1'-0"

FIRE RATING LEGEND
1 - HR FIRE BARRIER
0.5 - HR FIRE PARTITION

GENERAL NOTES:

- COORDINATE ALL FINAL TV LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.
- FLOOR/CEILING ASSEMBLY IS 1-HR FIRE RATED, REFERENCE ARCHITECT DRAWINGS.
- ALL EXPOSED CONDUIT SHALL BE PAINTED. COORDINATE COLOR SELECTION WITH ARCHITECT.

INSTALLATION KEYED NOTES "A" - "L":

- INSTALL THE EIGHT DOOR CONTROLLERS IN TWO ROWS OF FOUR TO SAVE WALL SPACE. PROVIDE 1/2"C. WITH CONTROL WIRES TO EACH DOOR CONTROLLER. PROVIDE ALL REQUIRED CONTROL WIRING AND RACEWAY FOR MOTION SENSORS, ETC. PER MANUFACTURE'S INSTALLATION DOCUMENTS. NOTE DOOR CONTROLS INSTALLED AT (2) LOCATIONS.
- PROVIDE RACEWAY AND WIRING FOR RANGE HOOD ADA CONTROLS INSTALLED ABOVE COUNTERTOP.
- PROVIDE 2#14 & 1#14G IN 3/4"C FROM LOUVER TO GAS DETECTION PANEL. PROVIDE DISCONNECT NEXT TO LOUVER MOTOR. 120V POWER FOR LOUVER SHALL COME FROM SAME CIRCUIT AS GAS DETECTION PANEL. GAS DETECTION PANEL HAS A RELAY FOR DAMPER CONTROL.
- PROVIDE AND INSTALL ELECTRIC CORD REELS MODEL: REELCRAFT L 4545 123 3A OR EQUAL. REEL SHALL HAVE 5-20R PLUG. COORDINATE FINAL LOCATION OF CORD REELS WITH OWNER.
- PROVIDE (3) SPARE 1"C FROM PANEL A TO EXTERIOR OF BUILDING. RACEWAYS SHALL BE ROUTED DOWN FROM PANEL AND INTO BUILDING SLAB, THROUGH FOOTING AND CAPPED UNDERGROUND.
- PROVIDE 2"C. FROM RADIO TO RELOCATED ANTENNA. INSTALLATION OF ANTENNA BY OTHERS. COORDINATE WITH OWNER FOR FINAL LOCATION OF RADIO WITHIN ROOM. PROVIDE WIRING FROM RADIO TO ANTENNA.
- LOW VOLTAGE POWER WIRING BY M.C.. WALL MOUNTED DUCTLESS UNIT RECEIVES POWER FROM OUTDOOR UNIT AS SCHEDULED.
- PROVIDE 1"C FROM CONTROLLER TO NEAR CEILING JOIST FOR CONTROL WIRING TO HVLS FAN (CF-1).
- REFERENCE MECHANICAL DRAWINGS FOR WIRING REQUIREMENTS OF GAS DETECTION SYSTEM. PROVIDE WIRING AND RACEWAYS FOR SENSORS, ALARM STROBE/HORN, AND FAN/DAMPER CONTROL.
- SHIFT PHONE CONDUITS OUT OF FIRST FLOOR WALL ABOVE CEILING TO ENTER DATA ROOM FLOOR 3" FROM WALL.
- WIRE CONDENSATE PUMP FROM NEAREST RECEPTACLE CIRCUIT.
- PROVIDE HP-5 AND AH-5 UNDER ALTERNATE BID.
- PROVIDE TWO 4" CONDUITS FROM 12 INCHES ABOVE DATA ROOM FLOOR TO LOUNGE/DAY ROOM. THESE RACEWAYS SHALL BE USED FOR CABLE ACCESS FROM FIRST FLOOR TO SECOND FLOOR DATA ROOM.
- PROVIDE TWO 4" CONDUITS FROM LOUNGE/DAY ROOM TO BUNK 114 FOR DATA CABLE ACCESS.
- PROVIDE 2" SCH. 40 UNDERGROUND CONDUIT FROM SCBA COMPRESSOR TO AIR BOTTLE CASCADE SYSTEM UNDER STAIRS IN TRUCK BAYS FOR CONTAINMENT OF HIGH PRESSURE HOSE.
- THE AREA AROUND THE FUEL TANK AND DISPENSING DEVICE ARE CLASS I LOCATIONS (SEE SHEET E4.02). THE OWNER'S STORAGE TANK WILL BE USED FOR GASOLINE. THE EMERGENCY SHUT-OFF DEVICE SHALL BE LOCATED OUTSIDE THIS ZONE, AT LEAST 20' BUT NO MORE THAN 100' FROM THE PUMP MOTOR (NEC 514.11(A)). COORDINATE LOCATION WITH SITE/CIVIL PLANS AND OWNER. INSTALL THE SHUT-OFF DEVICE AND DISCONNECTS ON THE SIDE OF THE BUILDING AND WIRE BACK TO THE SHUNT TRIP BREAKER. CLEARLY LABEL THE SHUT OFF DEVICE "FUEL SYSTEM EMERGENCY SHUTOFF" WITH WHITE LETTERS ON RED BACKGROUND. PROVIDE A LISTED CONDUIT SEAL AT EACH END OF THE RACEWAY. A SEAL SHALL BE PROVIDED AT THE PUMP AND ONE AT THE DISCONNECT. THE SEALING FITTING SHALL BE THE FIRST FITTING AFTER THE CONDUIT EMERGES FROM EARTH OR CONCRETE. RACEWAY INSTALLED UNDER CLASSIFIED AREA SHALL BE THREADED RGS OR IMC. SCHEDULE 80 PVC MAY BE INSTALLED IF UNDER 24 INCHES OF COVER. WHERE PVC IS USED, RGS SHALL BE USED FOR THE LAST 2 FEET OF THE UNDERGROUND RUN TO THE ABOVE GRADE RACEWAY. OWNER WILL PROVIDE A FUEL MANAGEMENT SYSTEM WHICH WILL INCLUDE A DIGITAL METER BETWEEN THE TANK AND PUMP. PROVIDE WIRING AND RACEWAYS AS REQUIRED BY MANUFACTURER.
- WIRE SMOKE DAMPER MOTOR TO NEAREST RECEPTACLE CIRCUIT.
- PROVIDE 2"C. FROM PROJECTOR LOCATION TO WALL BOX. PROVIDE BOX EQUAL TO HUBBELL HRWB25. COVER COLOR SELECTED BY ARCHITECT. PROVIDE HDMI CABLE BETWEEN WALL BOX AND PROJECTOR. PROVIDE CAT 6 CABLE AT WALL BOX AND PROJECTOR LOCATION.



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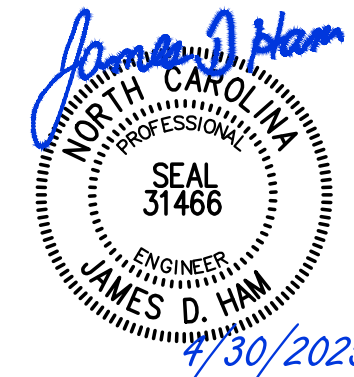
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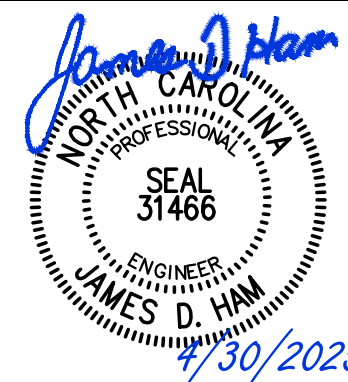
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ELECTRICAL PLANS

E1.01

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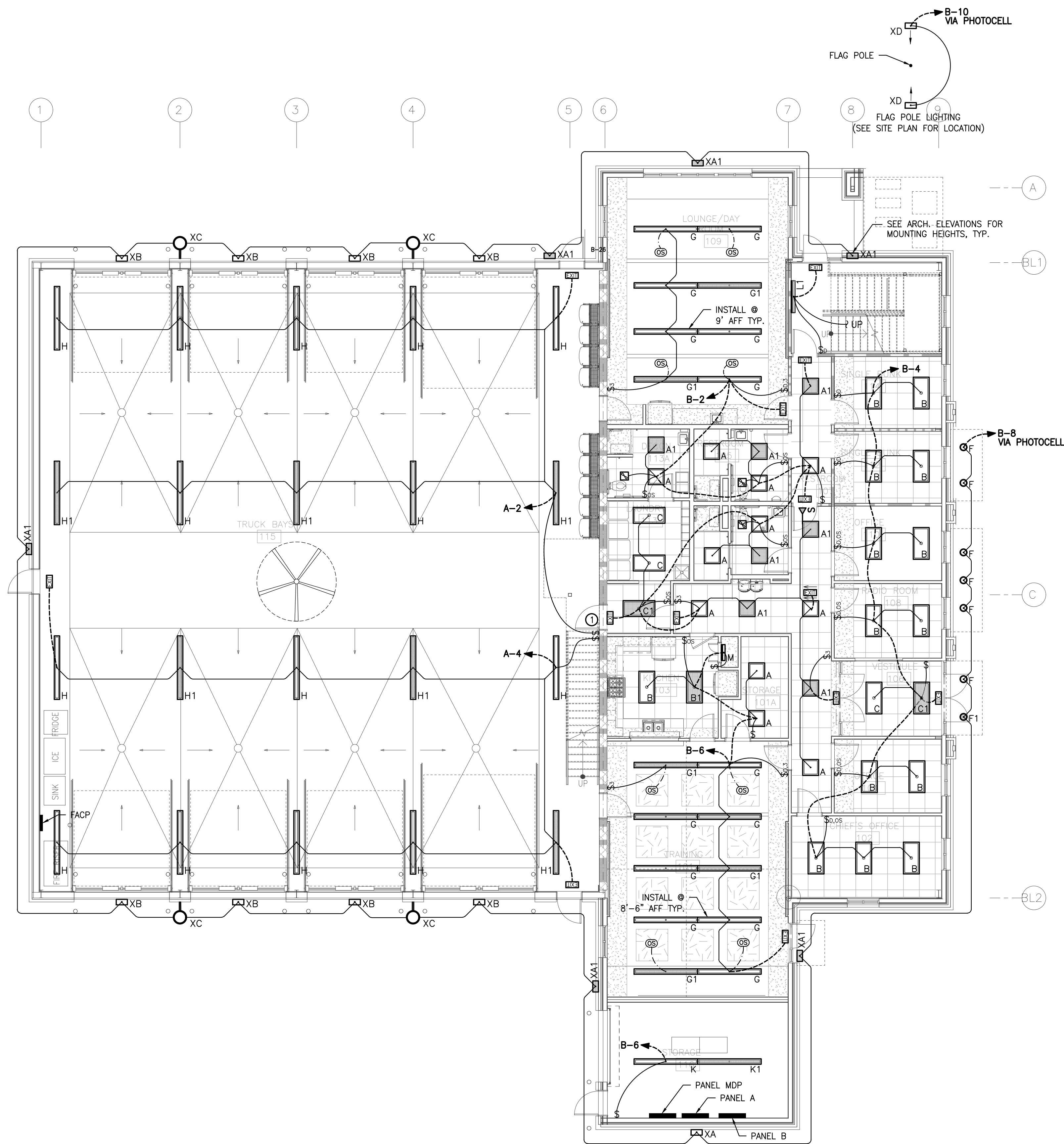
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ELECTRICAL PLANS

E1.02

INSTALLATION KEYED NOTES "A" - "C":

1. PROVIDE WALL SWITCHES AS SHOWN FOR TRUCK BAY LIGHTS.

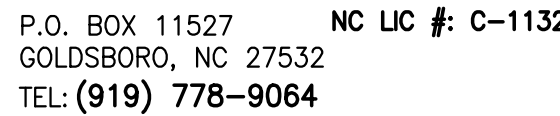




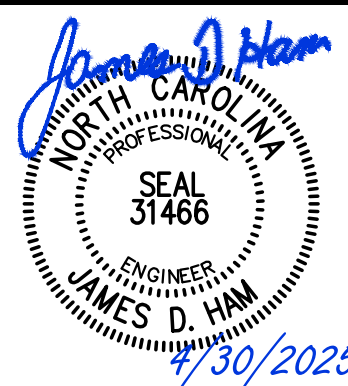
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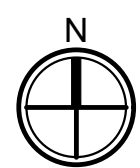
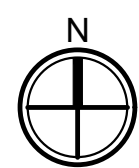
SHEET NAME & NUMBER

ELECTRICAL PLANS

FIRE RATING LEGEND

1 - HR FIRE BARRIER
0.5 - HR FIRE PARTITION

E1.03

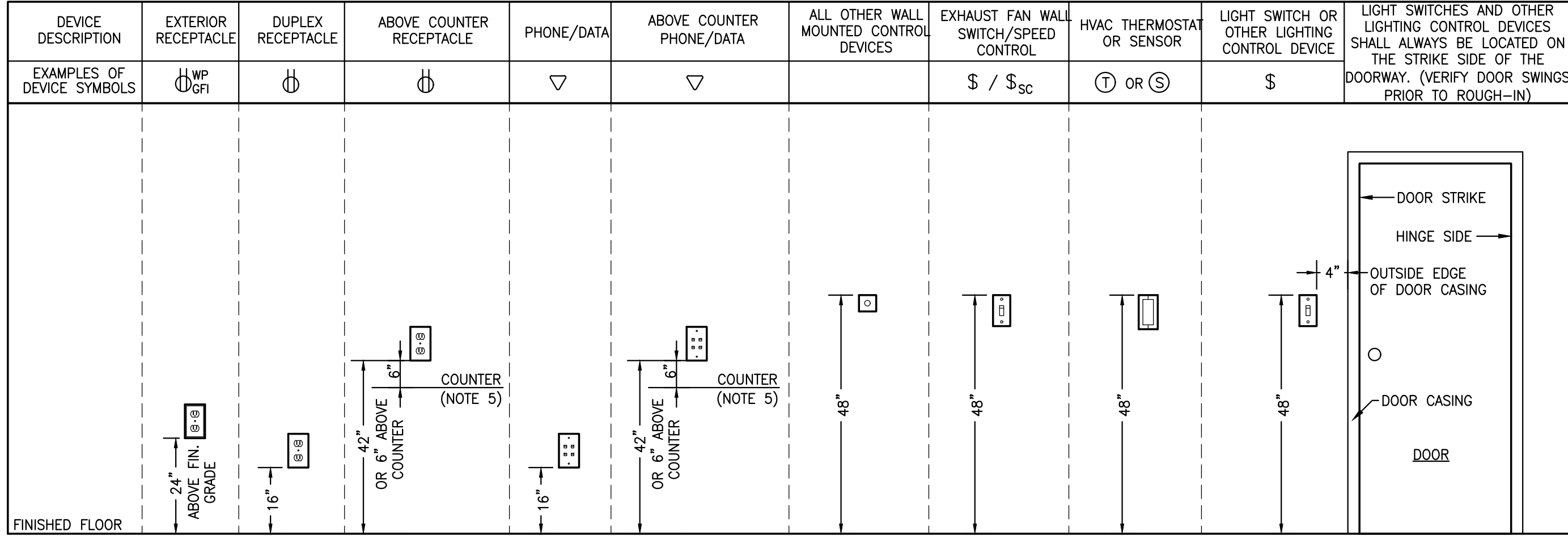


- ### INSTALLATION KEYED NOTES " # ":

1. PROVIDE AH-5 UNDER BID ALTERNATE #1.
2. LOW VOLTAGE POWER WIRING BY M.C. WALL MOUNTED DUCTLESS UNIT RECEIVES POWER FROM OUTDOOR UNIT AS SCHEDULED.
3. WIRE CONDENSATE PUMP FROM NEAREST RECEPTACLE CIRCUIT.
4. SHIFT PHONE CONDUITS OUT OF FIRST FLOOR WALL ABOVE CEILING TO ENTER DATA ROOM FLOOR 3" FROM WALL.
5. PROVIDE TWO 4" CONDUITS FROM 12 INCHES ABOVE DATA ROOM FLOOR TO LOUNGE/DAY ROOM. THESE RACEWAYS SHALL BE USED FOR CABLE ACCESS FROM FIRST FLOOR TO SECOND FLOOR DATA ROOM.
6. WIRE MOTOR DAMPERS TO NEAREST RECEPTACLE CIRCUIT.

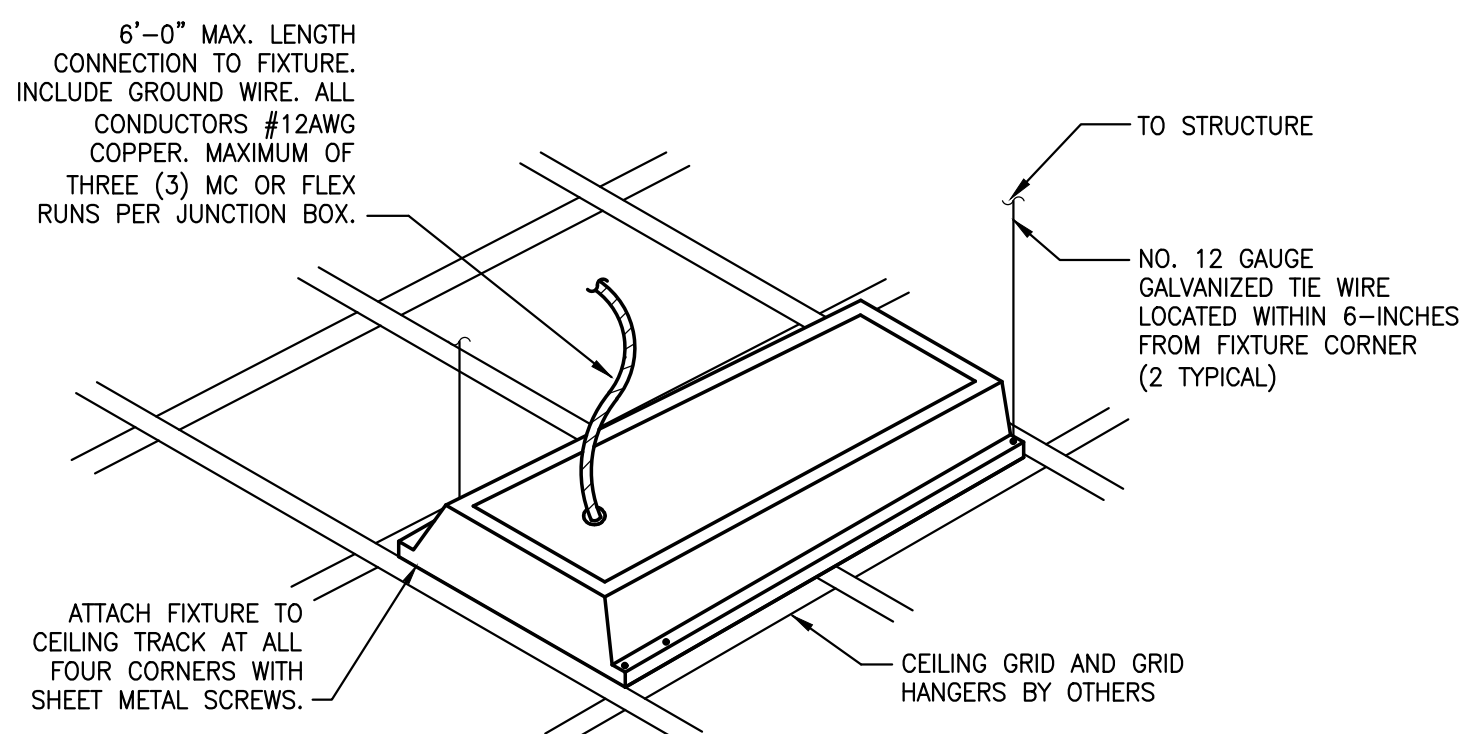
GENERAL NOTE:

1. UPFIT OF 2ND FLOOR SHALL BE PROVIDED UNDER BID ALTERNATE #1.

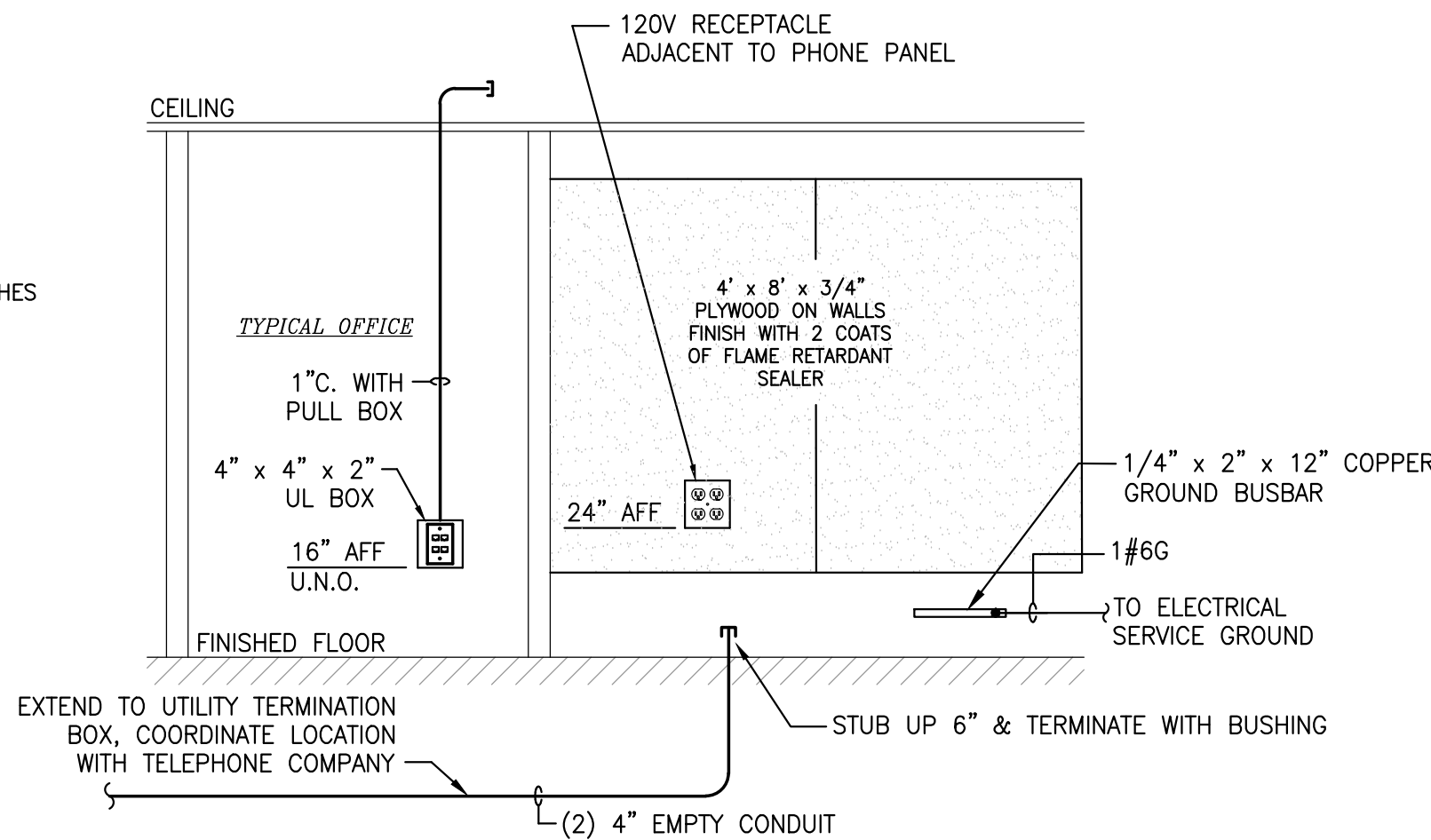


- NOTES:
- THIS DETAIL IS GENERIC TO ADDRESS MOUNTING HEIGHTS OF WALL MOUNTED DEVICES.
 - ALL DEVICES MAY NOT APPLY TO THIS PROJECT.
 - ALL MOUNTING HEIGHTS ARE TYPICAL UNLESS OTHERWISE NOTED ON PLANS.
 - REFERENCE ELECTRICAL LEGEND FOR MORE SPECIFIC DEVICES TYPES.
 - VERIFY COUNTER AND BACKSPLASH HEIGHTS PRIOR TO ROUGH-IN.

1 DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.



4 TYPICAL RECESSED FIXTURE SUPPORT
SCALE: N.T.S.



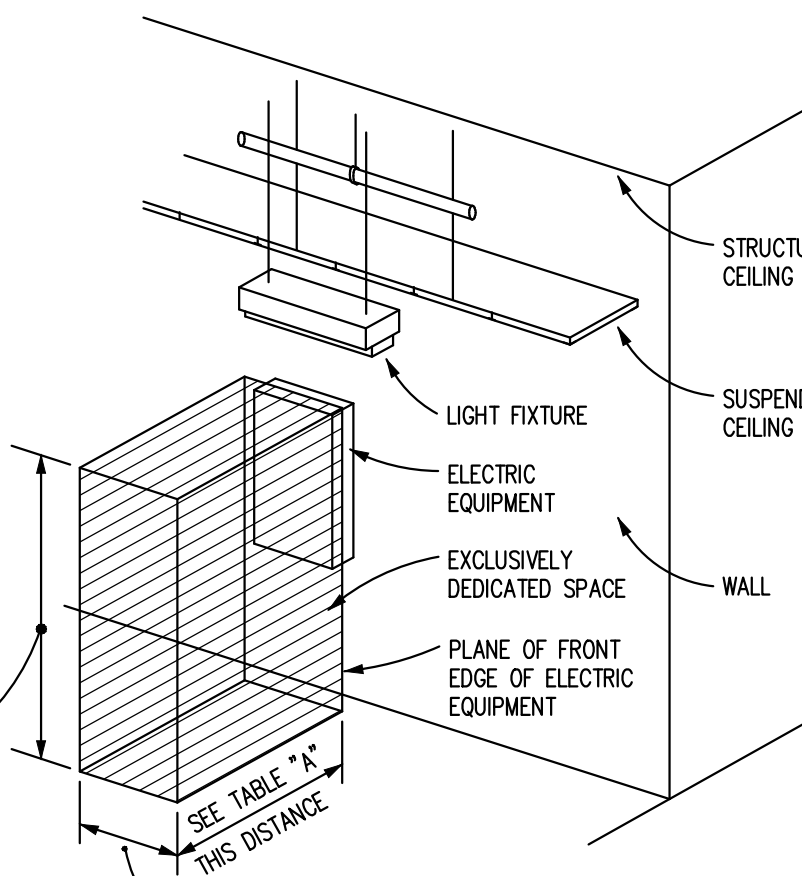
- NOTES:
- PROVIDE QUANTITY OF PLYWOOD SHEETS TO COVER WALLS AS SHOWN ON PLAN SHEET.
 - IF PROVIDING FIRE RETARDANT PLYWOOD, SHEETING DOES NOT REQUIRED PAINTING. INSTALL SHEETING SUCH THAT FIRE LABEL FACES OUT.

5 TELEPHONE SYSTEM DIAGRAM
SCALE: N.T.S.

TABLE "A" WORKING CLEARANCES			
VOLTAGE TO GROUND (NOMINAL)	CONDITION: 1	2	3
	(MINIMUM CLEAR DISTANCE)		
0-150	3'	3'	3'
151-600	3'	3 1/2'	4'

WHERE THE "CONDITIONS" ARE AS FOLLOWS:

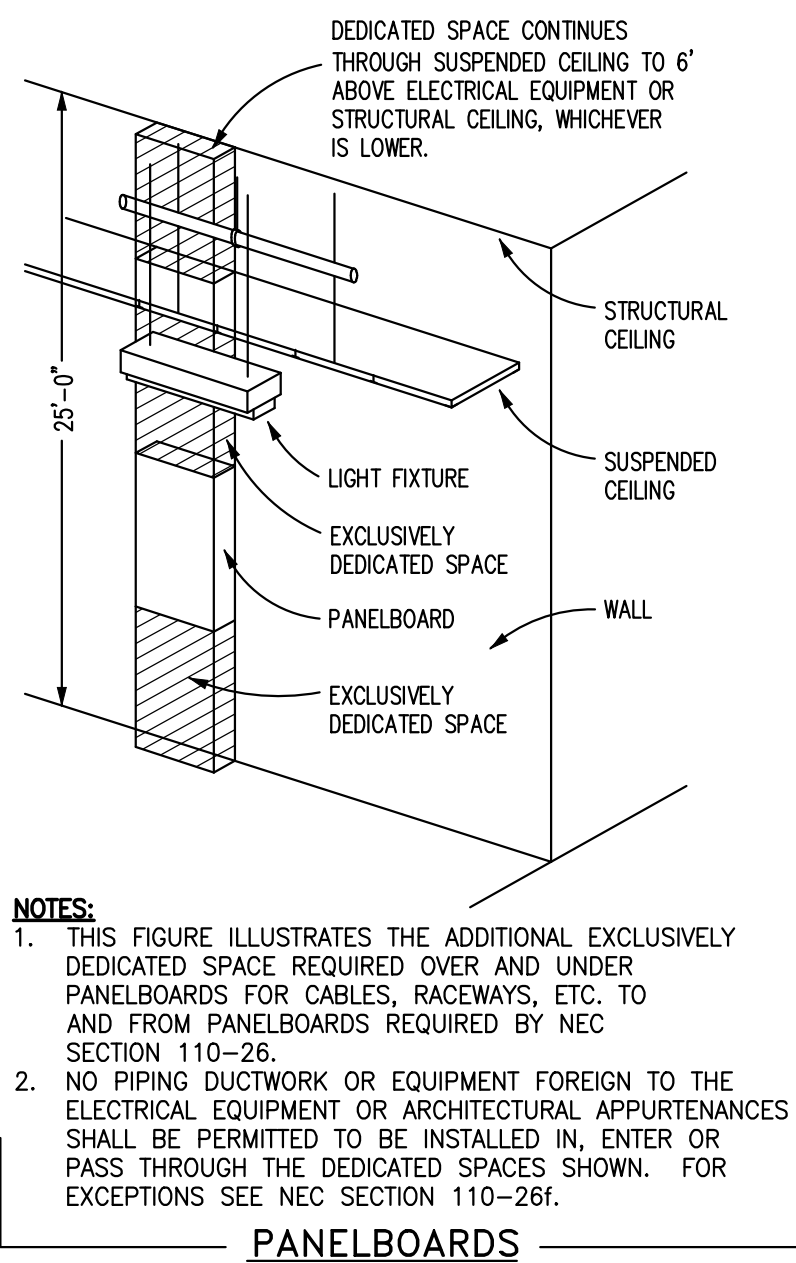
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



- NOTES:
- THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT REQUIRED BY NEC SECTION 110-26.
 - THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.

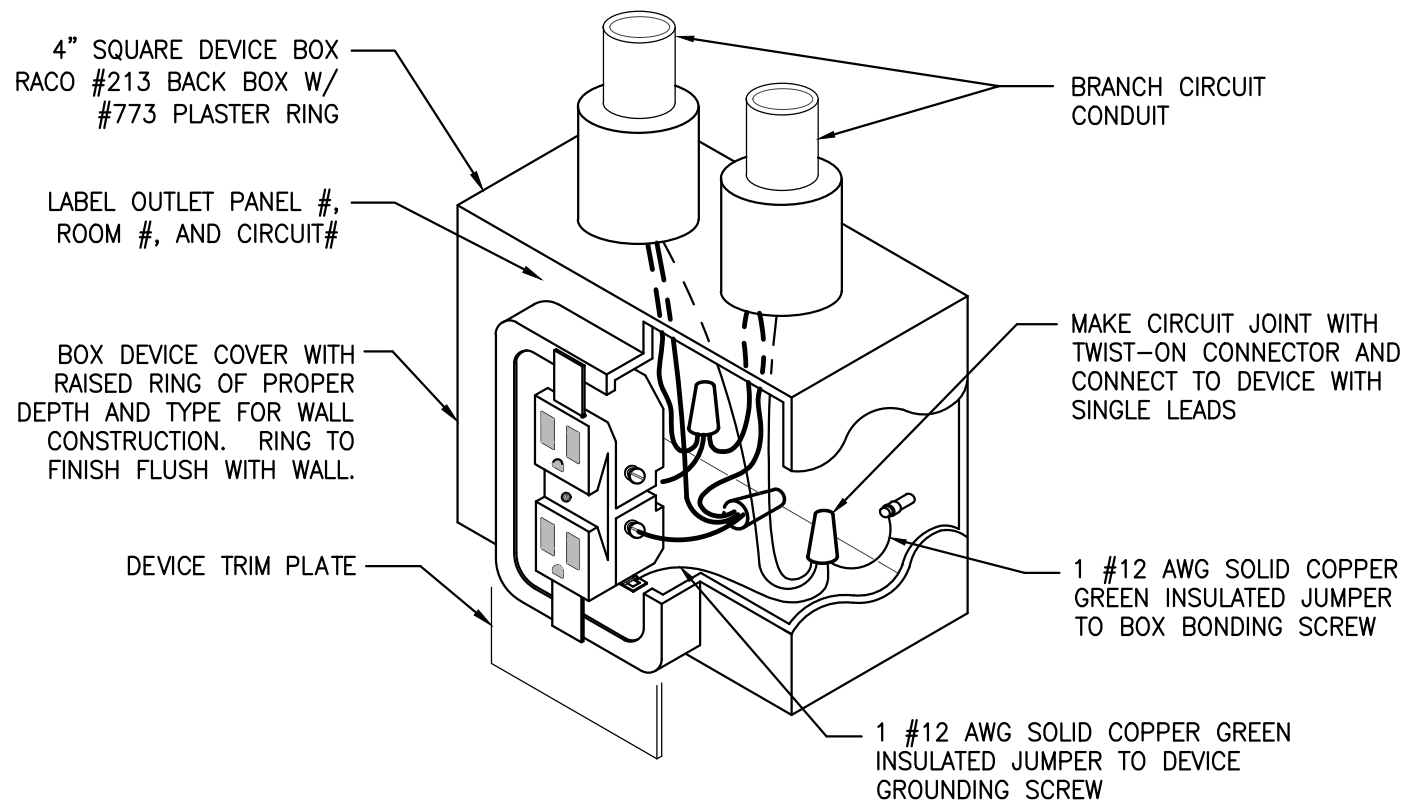
ALL ELECTRIC EQUIPMENT

8 DEDICATED WORKING SPACE REQUIREMENTS
SCALE: N.T.S.

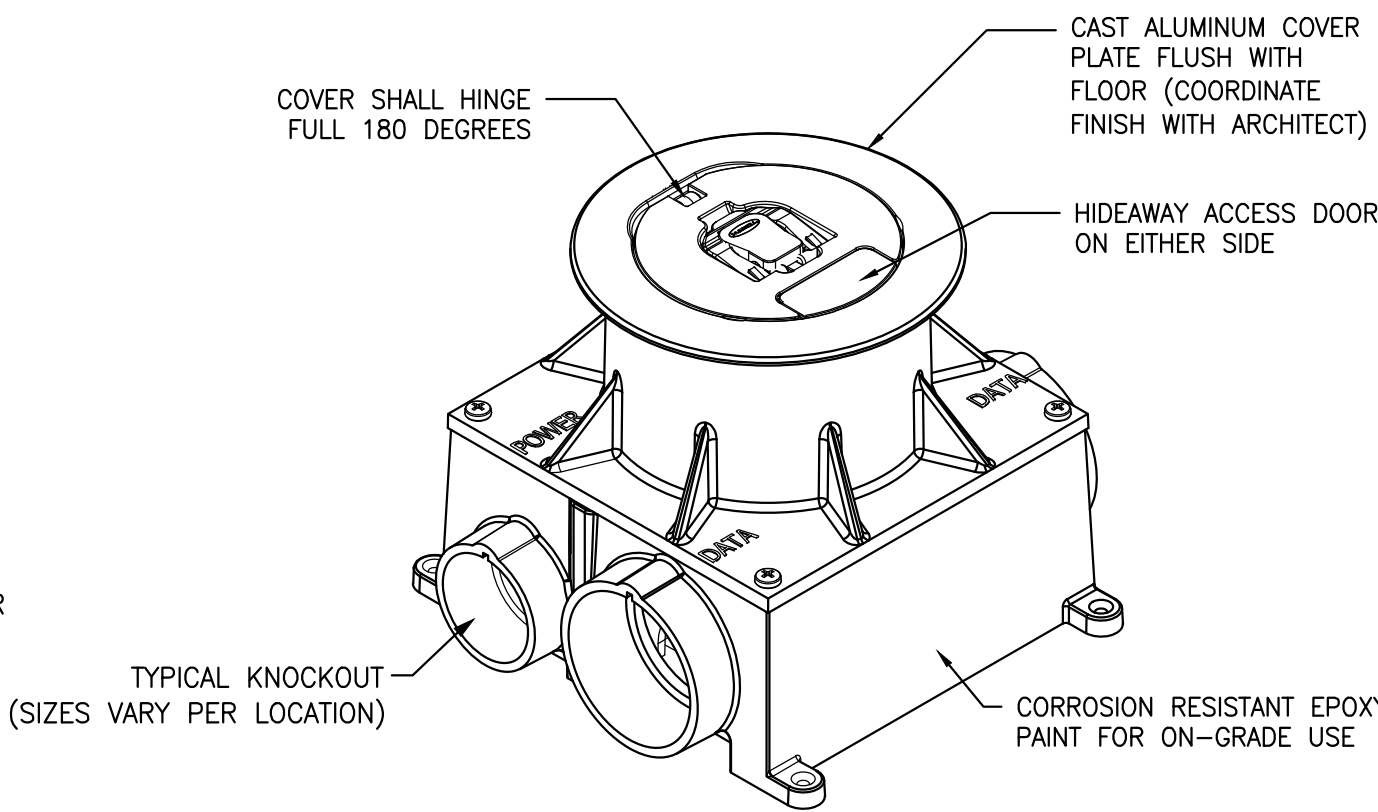


- NOTES:
- THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY NEC SECTION 110-26.
 - NO PIPING, DUCTWORK OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN. FOR EXCEPTIONS SEE NEC SECTION 110-26F.

PANELBOARDS

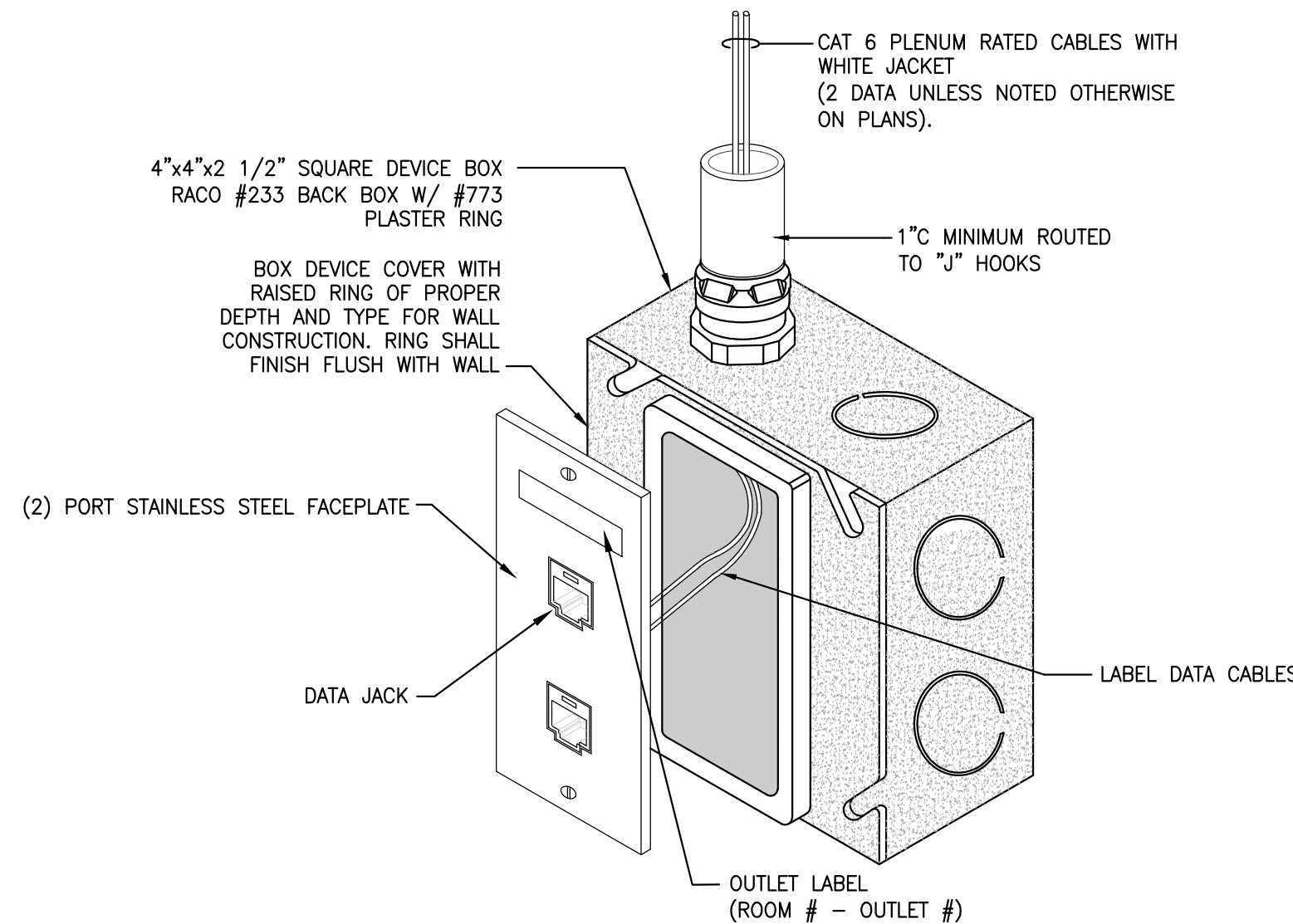


2 RECEPTACLE GROUNDING DIAGRAM
SCALE: N.T.S.

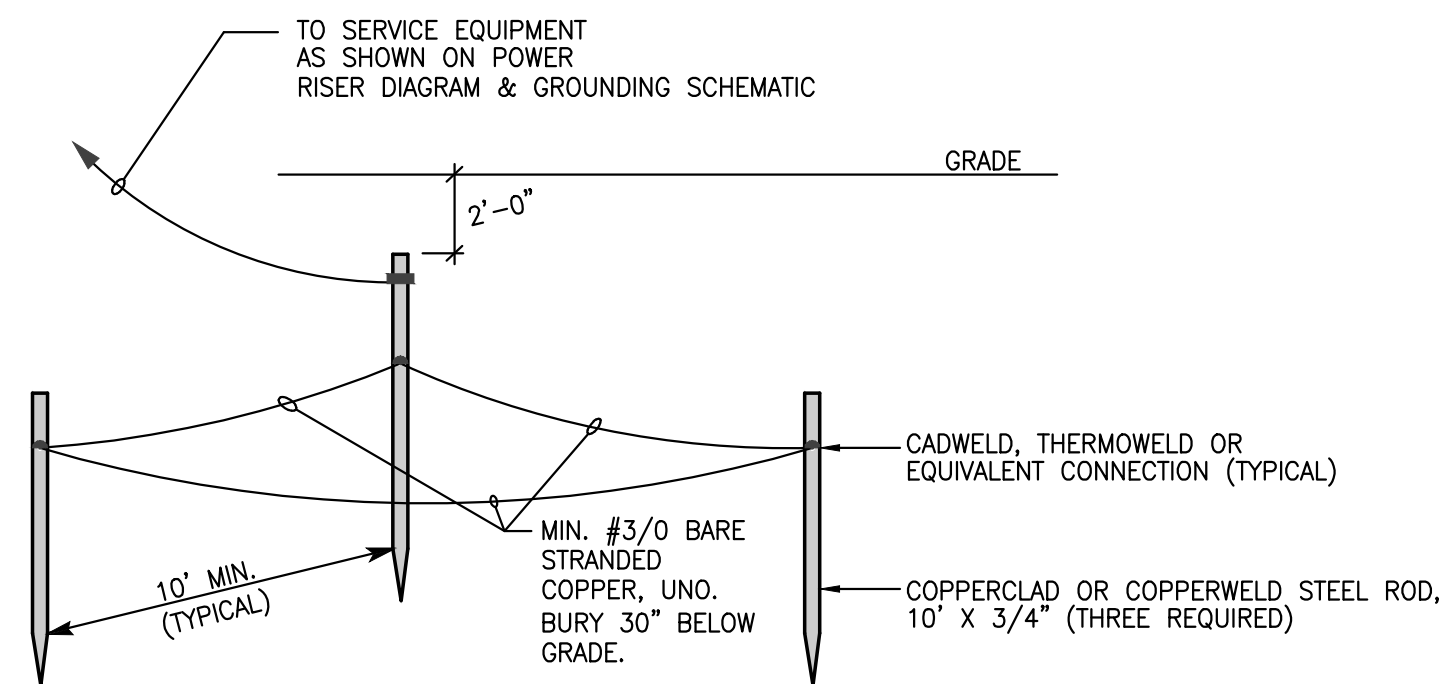


- NOTES:
- BOX SHALL BE PROVIDED WITH DIVIDER FOR POWER AND DATA COMPARTMENTS. COORDINATE LID TYPE AND COLOR WITH ARCHITECT.
 - PROVIDE (1) 1" FOR DATA AND (1) 2" FOR A/V TO ABOVE CEILING.
 - PROVIDE WITH 2-INCH THREADED CONDUIT HUB.
 - PRODUCT SHALL BE UL LISTED AND COMPLY WITH UL 514A FOR SCRUB WATER REQUIREMENTS.
 - BOX SHALL BE RATED FOR "ON-GRADE" USE

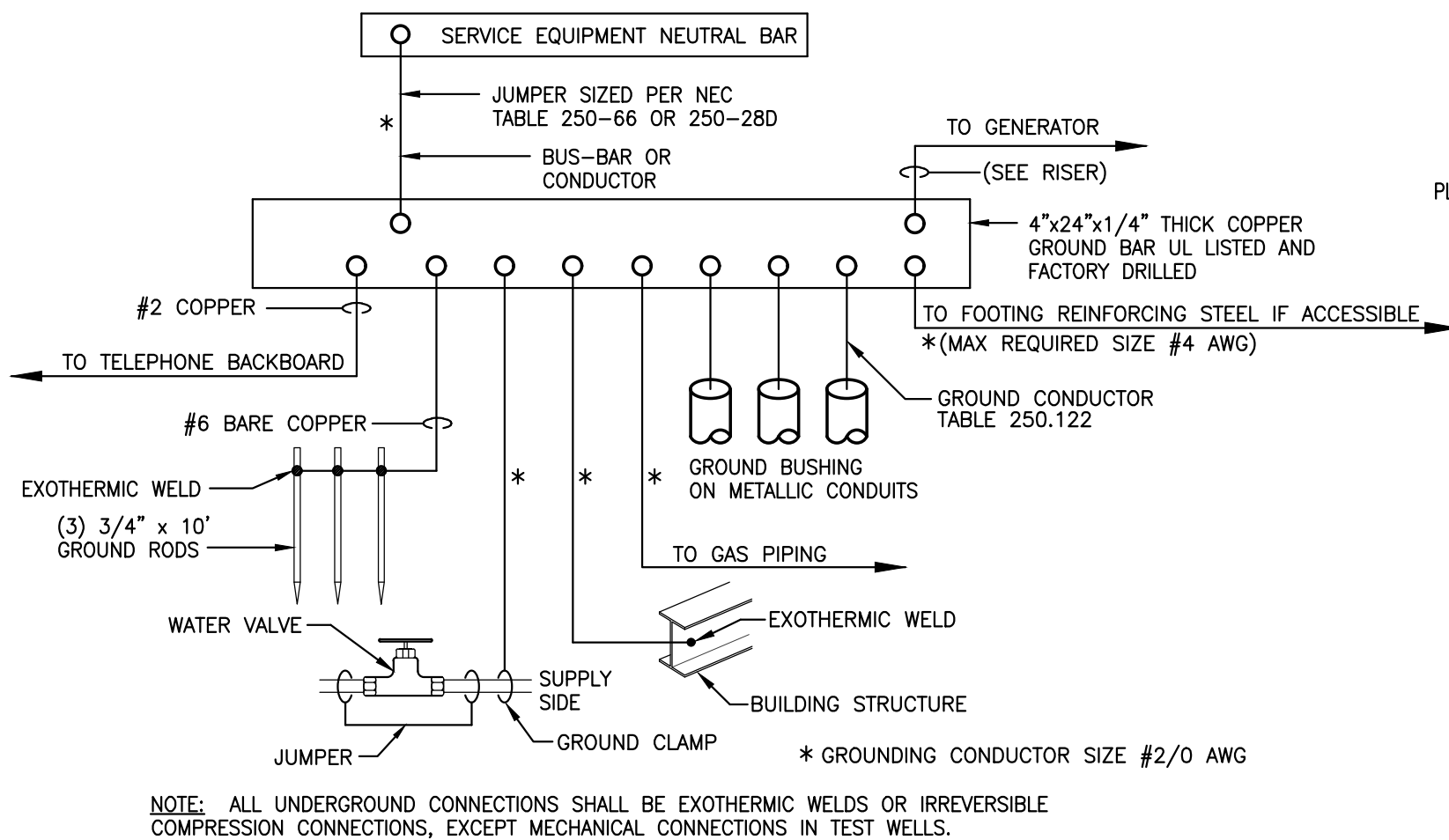
6 MULTISERVICE FLUSH CONCRETE FLOOR BOX
SCALE: N.T.S.



3 DUPLEX DATA OUTLET
SCALE: N.T.S.

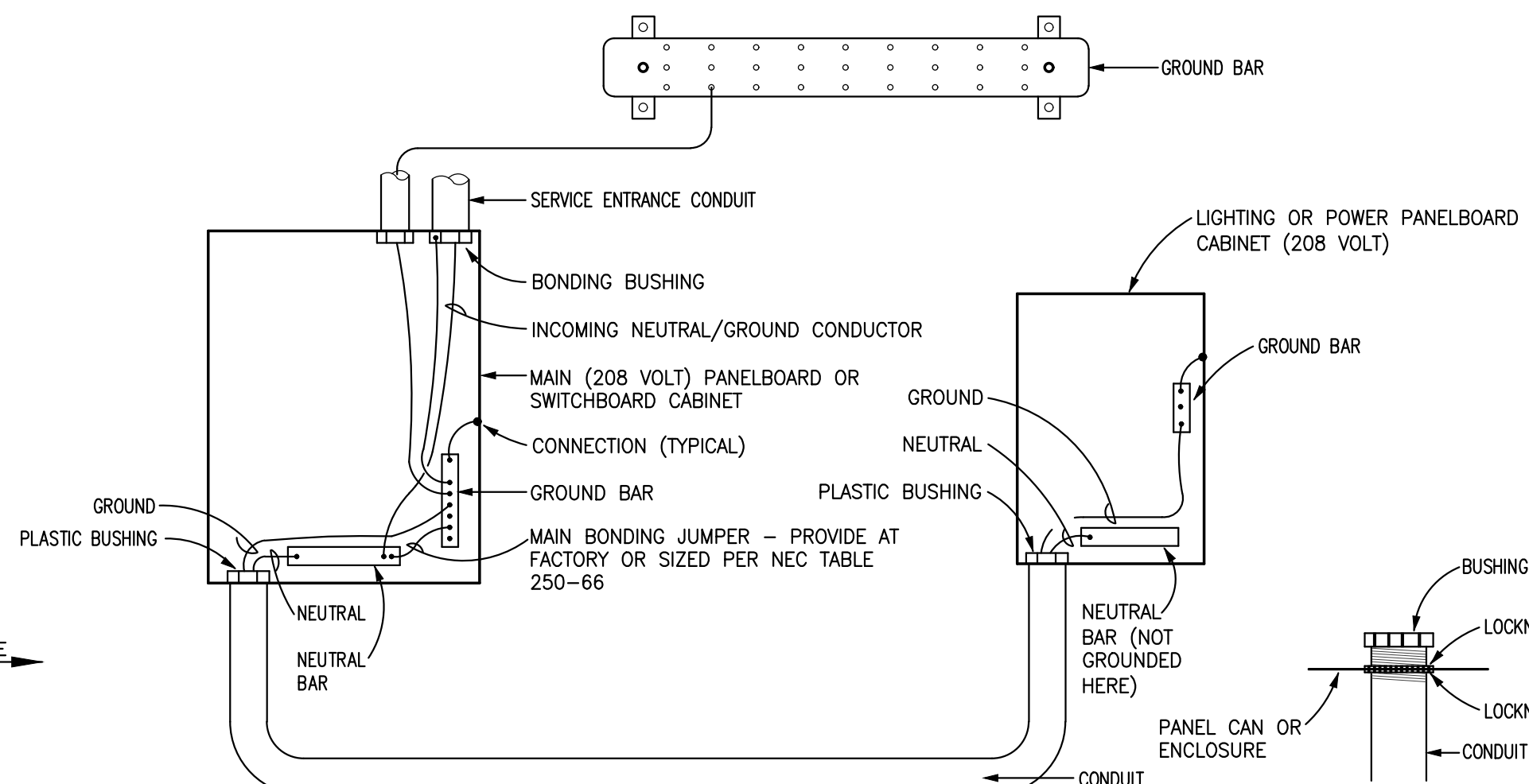


7 TYPICAL MADE GROUNDING ELECTRODE
SCALE: N.T.S.



NOTE: ALL UNDERGROUND CONNECTIONS SHALL BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION CONNECTIONS, EXCEPT MECHANICAL CONNECTIONS IN TEST WELLS.

9 SERVICE EQUIPMENT GROUNDING DIAGRAM
SCALE: N.T.S.



- NOTES:
- GROUNDING ELECTRODE CONDUCTOR SHALL BE RUN CONTINUOUSLY (UNBROKEN) FROM COLD WATER LINE AND/OR BUILDING STEEL AND GROUND ROD TO GROUND BAR BEFORE BONDING TO ANY CONDUIT BUSHING.
 - ALL THE FOLLOWING GROUNDING ELECTRODES THAT ARE PRESENT SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM PER NEC 250.52:
 - METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH EARTH FOR 10 FT OR MORE
 - METAL FRAME OF THE BUILDING,
 - ANY ELECTRODE ENCASED BY AT LEAST 2 IN. OF CONCRETE, CONSISTING OF 20 FT OR MORE BARE OR ZINC GALVANIZED OR OTHER ELECTRICALLY CONDUCTIVE COATED STEEL REINFORCING BARS OR RODS NOT LESS THAN 1/2" IN DIAMETER.
 - GROUND RING ENCASED IN THE BUILDING
 - ROD AND PIPE ELECTRODES NOT LESS THAN 8 FT.
 - PLATE ELECTRODES

10 TYPICAL BONDING & GROUNDING DIAGRAM
SCALE: N.T.S.



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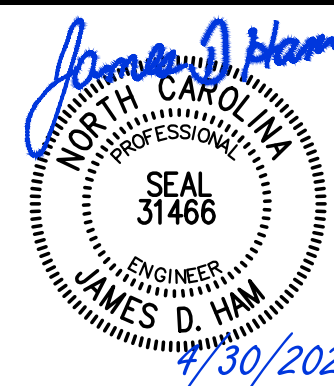
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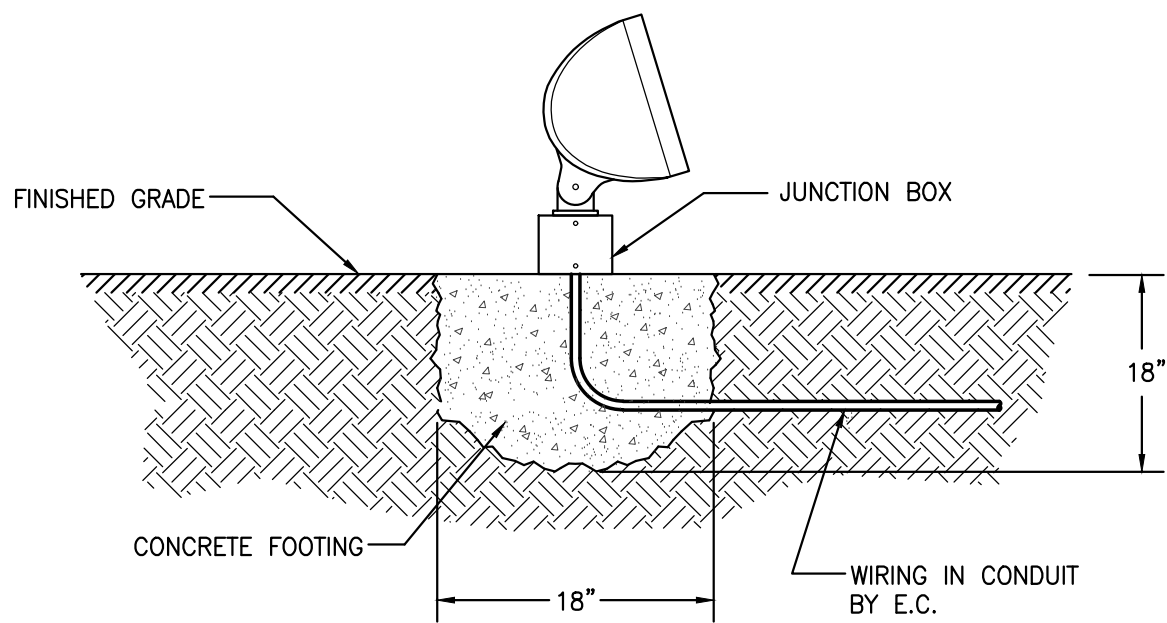
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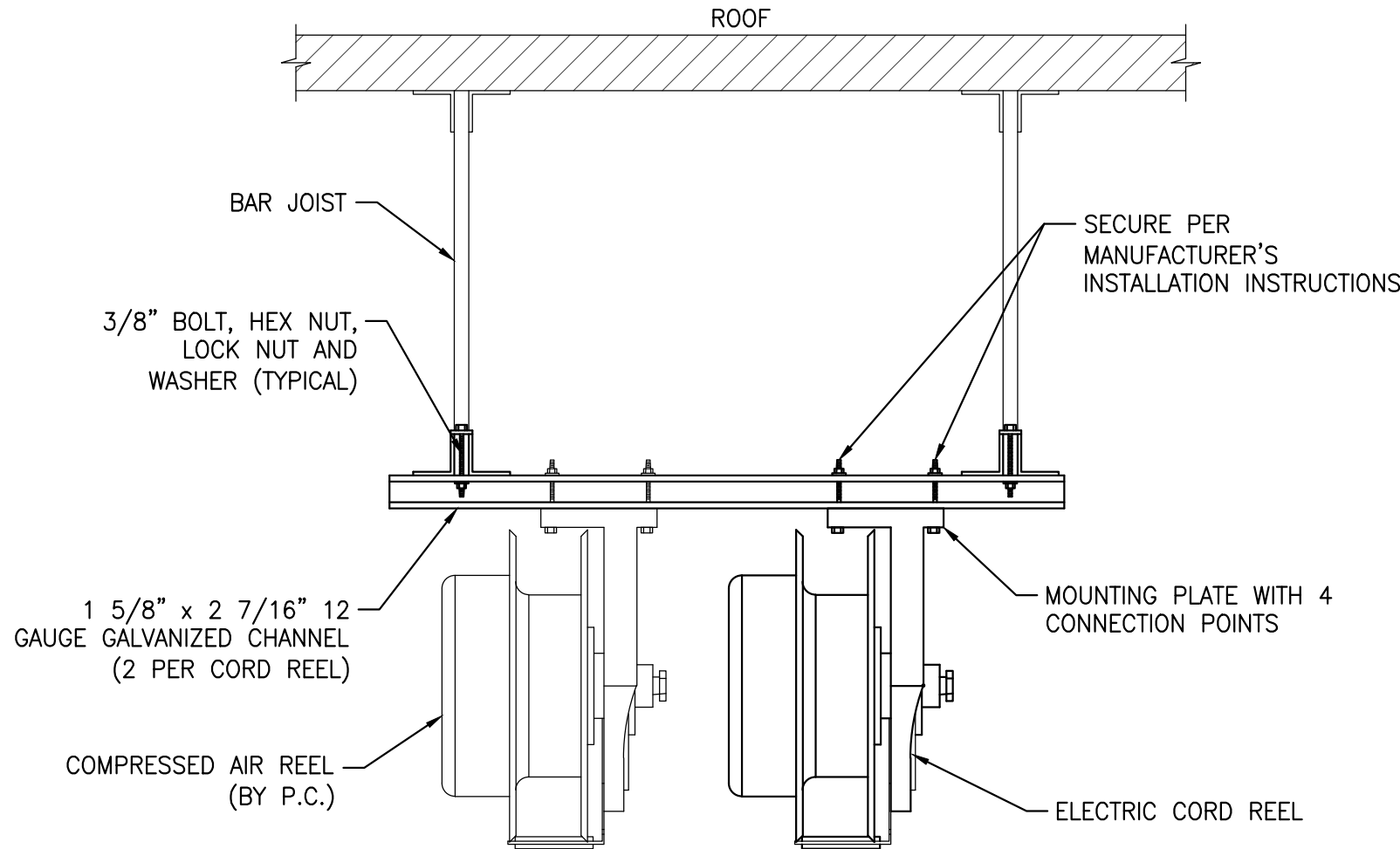
SHEET NAME & NUMBER

ELECTRICAL DETAILS

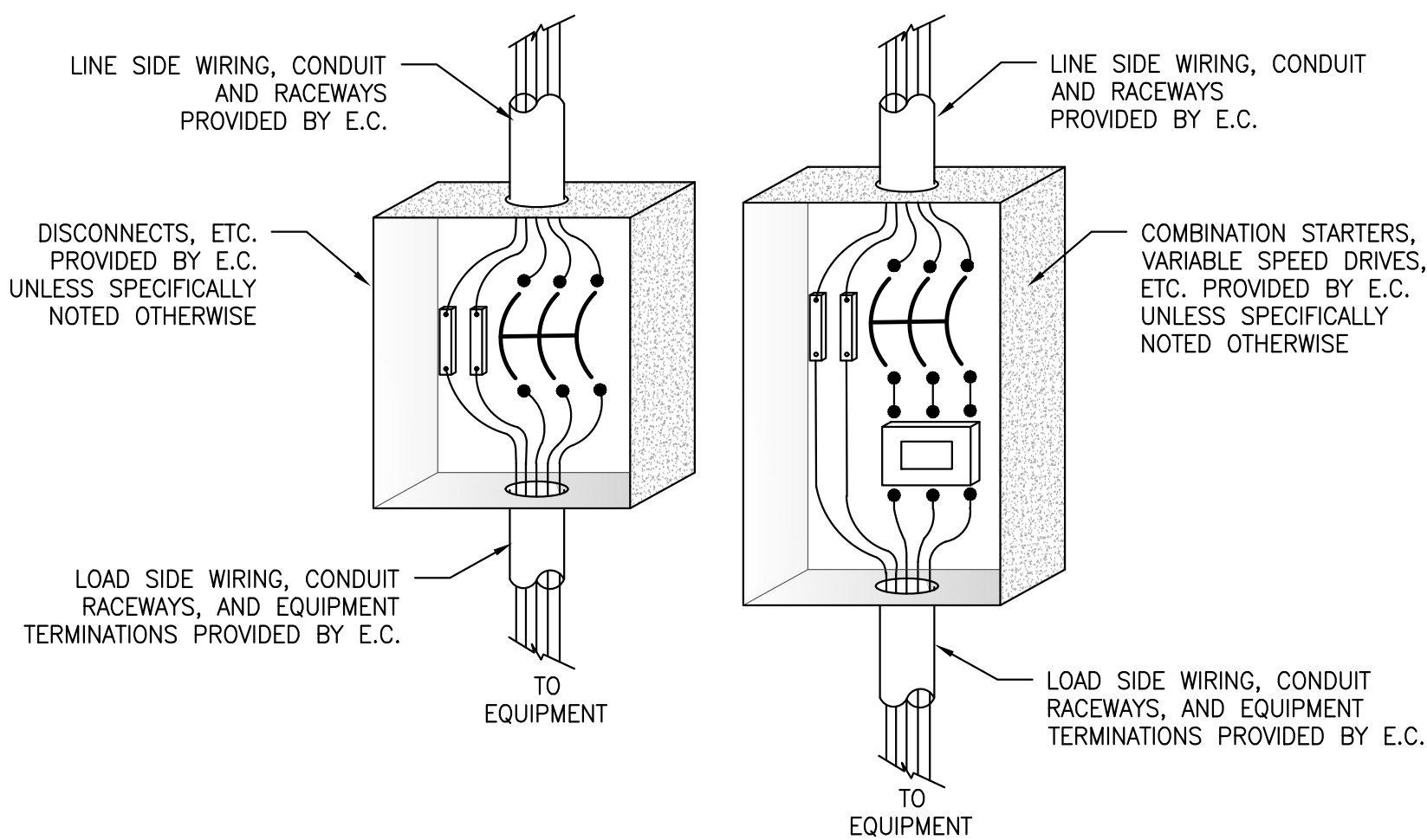
E2.01



1 GRADE MOUNTED FLOODLIGHT MOUNTING
SCALE: N.T.S.

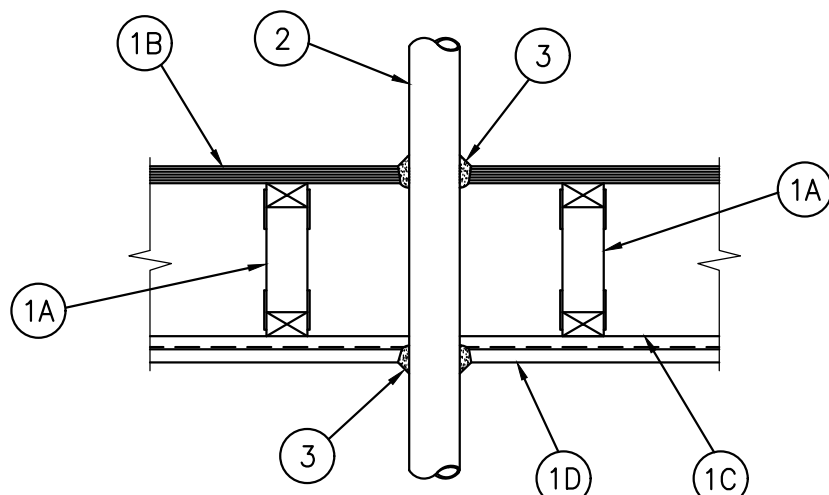


2 CORD REEL MOUNTING DETAIL
SCALE: N.T.S.



3 ELECTRICAL CONNECTION COORDINATION
SCALE: N.T.S.

System No. F-C-1006
September 03, 2004
(Formerly System No. 453)
F Rating - 1 Hr
T Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft



1. FLOOR-CEILING ASSEMBLY - THE 1 HR FIRE RATED WOOD JOIST, WOOD TRUSS OR COMBINATION WOOD AND STEEL TRUSS FLOOR-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL L500-SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY, AS SUMMARIZED BELOW:

- JOISTS OR TRUSSES - NOM 2 BY 10 IN. LUMBER JOISTS, MIN 12 IN. DEEP PARALLEL CHORD TRUSSES FABRICATED FROM NOM 2 BY 4 IN. LUMBER IN CONJUNCTION WITH GALV STEEL TRUSS PLATES OR STRUCTURAL WOOD MEMBERS* WITH BRIDGING AS REQUIRED.
- FLOORING - NOM 3/4 IN. THICK PLYWOOD FLOORING WITH OR WITHOUT FLOOR TOPPING MIXTURE*. MAX DIAM OF OPENING IS 5 IN.
- FURRING CHANNELS - RIGID OR RESILIENT GALV STEEL FURRING CHANNELS INSTALLED PERPENDICULAR TO BOTTOM CHORD OF TRUSSES.
- GYPSUM BOARD* - NOM 4 FT WIDE BY 5/8 IN. THICK, SCREW-ATTACHED TO FURRING CHANNELS. MAX DIAM OF OPENING IS 1-1/4 IN.

- CHASE WALL (OPTIONAL, NOW SHOWN) - THE THROUGH PENETRANTS (ITEM NO. 2) MAY BE ROUTED THROUGH A 1 HR FIRE-RATED SINGLE, DOUBLE OR STAGGERED WOOD STUD/GYPSUM WALLBOARD CHASE WALL CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- STUDS - NOM 2 BY 6 IN. OR DOUBLE NOM 2 BY 4 IN. LUMBER STUDS.
- SOLE PLATE - NOM 2 BY 6 IN. OR PARALLEL 2 BY 4 IN. LUMBER PLATES, TIGHTLY BUTTED.
- TOP PLATE - THE DOUBLE TOP PLATE SHALL CONSIST OF TWO NOM 2 BY 6 IN. OR TWO SETS OF PARALLEL 2 BY 4 IN. LUMBER PLATES, TIGHTLY BUTTED. MAX DIAM OF OPENING IS 5 IN.
- GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS SHALL BE AS SPECIFIED IN INDIVIDUAL WALL AND PARTITION DESIGN.

- PIPE OR CONDUIT - NOM 10 IN. DIAM (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE OR CAST IRON PIPE, NOM 4 IN. DIAM (OR SMALLER) STEEL CONDUIT OR STEEL ENT OR NOM 3 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. PIPE TO BE INSTALLED APPROX MIDWAY BETWEEN JOISTS OR TRUSSES AND CENTERED IN CIRCULAR CUTOITS. DIAM OF CIRCULAR CUTOITS IS 1/4 IN. TO 1/2 IN. LARGER THAN DIAM OF THE PIPE. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR-CEILING ASSEMBLY.

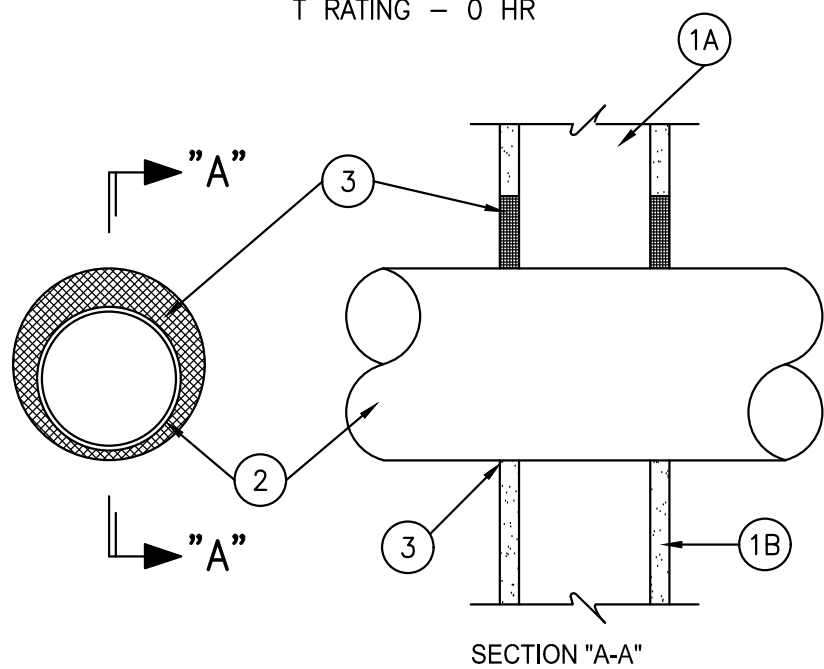
- FILL, VOID OR CAVITY MATERIALS* - CAULK OR SEALANT - MIN 3/4 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE. MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTTOM SURFACE OF CEILING OR TOP PLATE. AN ADDITIONAL MIN 1/4 IN. CROWN OF FILL MATERIAL APPLIED TO PERIMETER OF PENETRANT AT ITS EGRESS FROM THE TOP OF FLOORING AND UNDERSIDE OF CEILING OR FROM TOP OF SOLE PLATE AND UNDERSIDE OF TOP PLATE.

3M COMPANY - CP 25WB+ CAULK OR FB-3000 WT SEALANT.

*BEARING THE UL CLASSIFICATION MARKING

4 UL 1 HOUR PLYWOOD FLOOR/CEILING PENETRATION DETAIL
SCALE: N.T.S.

UL SYSTEM NO. W-L-1108
F RATING - 1 HR
T RATING - 0 HR



- WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

- STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM. 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 2-1/2 IN. WIDE AND SPACED MAX 24 IN. O.C.
- WALLBOARD, GYPSUM* - ONE LAYER OF NOM 5/8 IN. THICK GYPSUM WALLBOARD, AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAXIMUM DIAMETER OF OPENING IS 11-3/4 IN.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - STEEL PIPE - NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - IRON PIPE - NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - CONDUIT - NOM 2 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER TUBING - NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER PIPE - NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
- FILL, VOID OR CAVITY MATERIAL*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

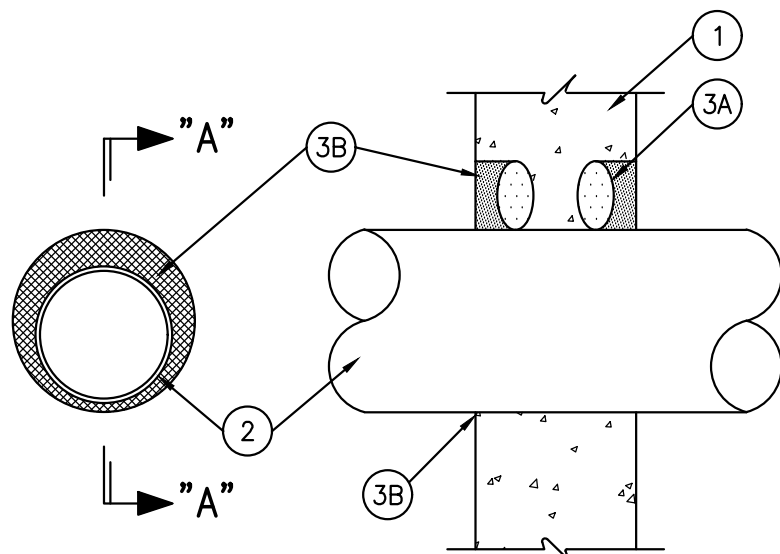
THE RECTORSEAL CORP.-METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

5 UL 1 HOUR GYPBOARD WALL PENETRATION DETAIL
SCALE: N.T.S.

UL SYSTEM NO. W-J-1038

F RATING - 2 HR
T RATING - 0 HR



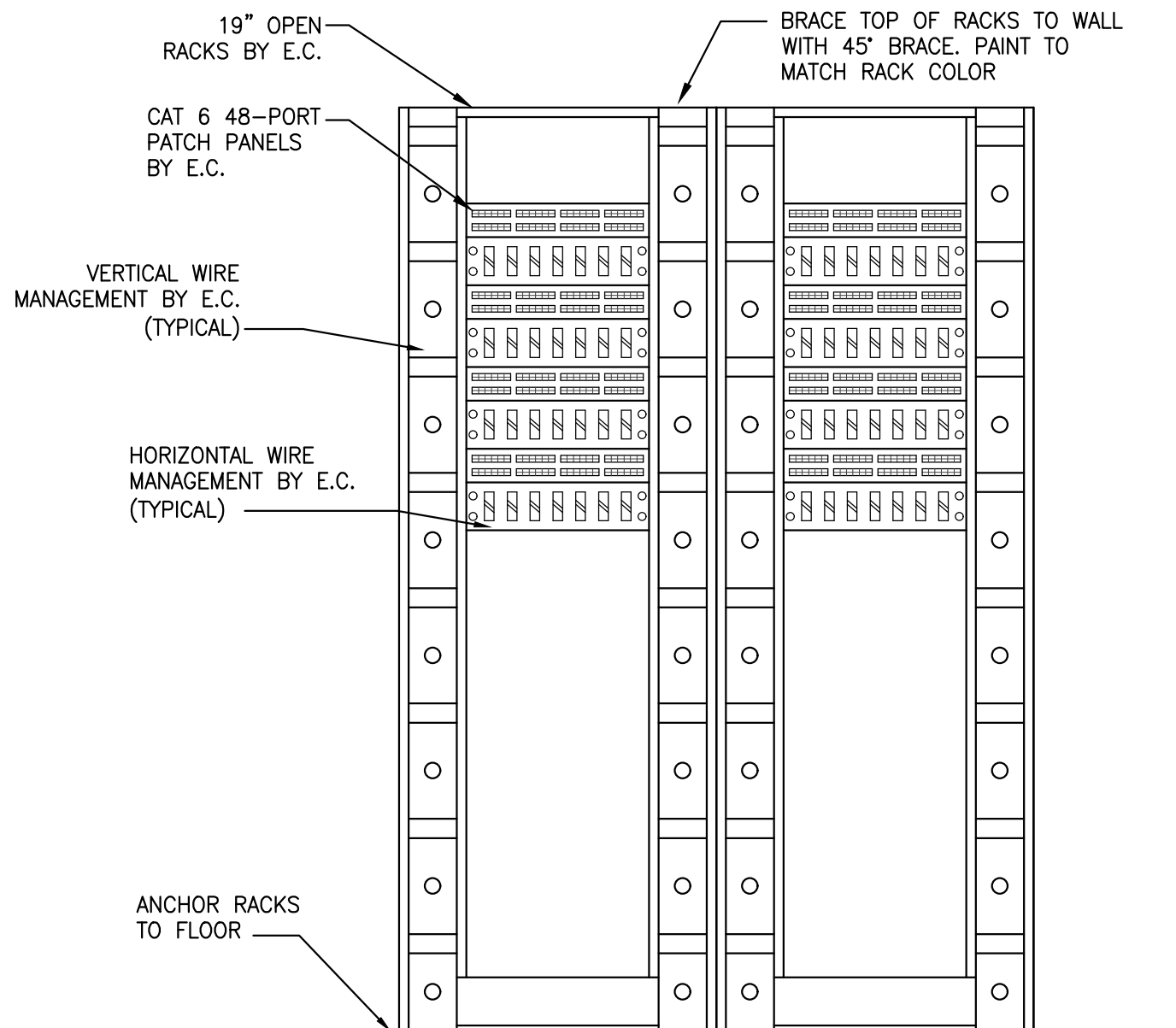
- WALL ASSEMBLY - MIN 5 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIA. OF OPENING IS 11-3/4 IN. SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
- THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:

- STEEL PIPE - NOM 10 IN. DIA. (OR SMALLER) SCHEDULE 20 (OR HEAVIER) STEEL PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - IRON PIPE - NOM 10 IN. DIA. (OR SMALLER) CAST OR DUCTILE IRON PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - CONDUIT - NOM 4 IN. DIA. (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER TUBING - NOM 2 IN. DIA. (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
 - COPPER PIPE - NOM 2 IN. DIA. (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE. THE ANNULAR SPACE SHALL BE MIN 0 IN. TO MAX 1 IN.
- FIRESTOP SYSTEM - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
 - PACKING MATERIAL - FOAM BACKER ROD FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
 - FILL, VOID OR CAVITY MATERIAL*-CAULK- MIN 1/2 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND WALL, A MIN 1/4 IN. DIA. BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE WALL/PIPE INTERFACE ON BOTH SURFACES OF WALL.

THE RECTORSEAL CORP.-METACAULK 1000 *BEARING THE UL CLASSIFICATION MARKING

FIRESTOP MATERIALS BY 3M AND SPECSEAL ARE ACCEPTABLE WHERE TESTED & ACCEPTED BY U.L. FOR THIS APPLICATION.

6 UL 1 & 2 HOUR BLOCK WALL PENETRATION DETAIL
SCALE: N.T.S.



NOTES:

- 19" RACKS, PATCH PANELS, AND WIRE MANagements SHALL BE PROVIDED BY E.C.
- PROVIDE 10 FOOT MINIMUM SERVICE LOOP AT THE RACKS. SLACK CABLE SHALL NOT BE COILED, BUT STORED IN A FIGURE 8, "U" OR "S" PATTERN.
- PROVIDE PATCH PANEL QUANTITY TO MATCH DATA CABLE QUANTITY PLUS 10% SPARE.
- SWITCHES & POWER SUPPLIES SHALL BE PROVIDED BY OWNER.
- LABEL CABLES AND PATCH PANELS FRONT & REAR WITH OWNER'S STANDARD LABELING.
- PROVIDE 12" WIDE CABLE TRAY FROM WALL TO WALL ABOVE FOR CABLE MANAGEMENT.
- PROVIDE LABELING, TESTING AND MAPPING OF ALL CABLES. SUBMIT REPORT TO OWNER.

7 COMMUNICATIONS RACK ELEVATION
SCALE: N.T.S.



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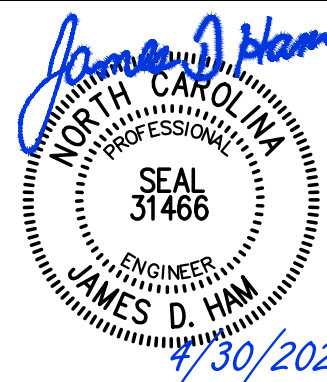
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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY B. TRENT



REVISIONS:

| DESC: | DATE |

DRAWN BY: DEH

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SHEET NAME & NUMBER

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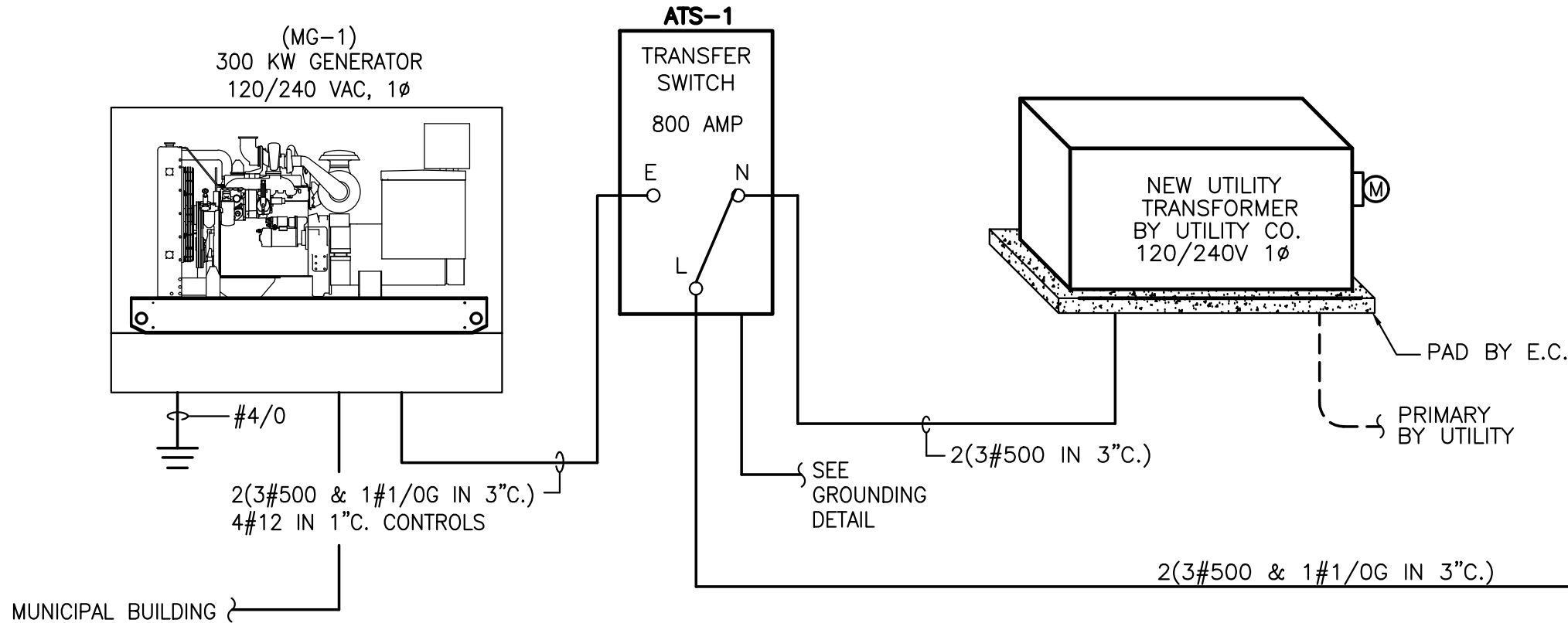
E2.02

SERVICE LOAD SUMMARY					
OCCUPANCY TYPE – MIXED			BUILDING AREA – 15,180 SQUARE FEET		
CONTINUOUS LOAD DESCRIPTION	LOAD (KVA)	NEC REFERENCE	DEMAND FACTOR	NEC REFERENCE	LOAD (KVA)
INDOOR LIGHTING (1.3 W/SF)	19.7	TABLE 220.12	100%	TABLE 220.42	19.7
OUTDOOR LIGHTING	1.0	--	100%	--	1.0
SIGN LIGHTING	1.2	220.14 F	100%	--	1.2
ELECTRIC UNIT HEATERS	6.6	ARTICLE 440	100%	--	6.6
AIR HANDLER FANS (SPLIT SYSTEMS)	6.0	ARTICLE 440	100%	--	6.0
AIR HANDLER ELECTRIC HEAT	28.0	422.12	100%	--	28.0
HVAC OUTDOOR UNIT	17.9	ARTICLE 440	100%	--	17.9
EXHAUST FANS & WALL FANS	2.0	ARTICLE 440	100%	--	2.0
WATER HEATERS	7.5	422.13	100%	--	7.5
SUBTOTAL CONTINUOUS LOADS					89.9
					x 125%
					112.4
NON CONTINUOUS LOAD DESCRIPTION					
RECEPTACLES UP TO 10 KVA	10.0	220.14 1	100% OF 1st 10 KVA		10.0
RECEPTACLES OVER 10 KVA	19.0	220.14 1	50% ABOVE 10 KVA		9.5
KITCHEN EQUIPMENT	13.8	--	x 70% DIVERSITY FOR 5 PCS OF EQUIP	TABLE 220.56	9.7
WASHER/EXTRACTOR	2.9	--	NONCONTINUOUS LOAD x 100%		2.9
DRYERS	10.0	--	NONCONTINUOUS LOAD x 100%		10.0
MISC. LOADS	5.0	--	NONCONTINUOUS LOAD x 100%		5.0
AIR COMPRESSOR & SCBA	15.0	--	NONCONTINUOUS LOAD x 100%		15.0
TRUCK BAY DOORS	14.0	--	NONCONTINUOUS LOAD x 100%		14.0
SUBTOTAL NON–CONTINUOUS LOADS					76.1
TOTAL CONTINUOUS AND NON–CONTINUOUS LOADS					188.4
FAULT CURRENT • TRANSFORMER SECONDARY TERMINALS			SERVICE LOAD		
167 KVA (X–FORMER) 0.240 x 1.7 %Z			=	40,900 AMPS	
				188 KVA 0.240	= 783 AMPS

PACKAGE GENERATOR SYSTEM SCHEDULE						
MARK	VOLTS/PH	KW RATING	FIRE DEPT. BREAKER	MUNICIPAL BREAKER	RATING	FUEL TYPE
MG–1	120/240 1ø	300 KW	800A	600A	STANDBY	DIESEL

NOTES:

1. PROVIDE THE FOLLOWING OPTIONS AND ACCESSORIES:
- ALTERNATOR SHALL BE PROTECTED PER THE REQUIREMENTS OF NFPA 70 SECTION 445.12.
 - THE GENERATOR SET SHALL BE PROVIDED WITH AN OVERCURRENT PROTECTIVE DEVICE THAT IS COORDINATED WITH THE ALTERNATOR TO PREVENT DAMAGE ON ANY POSSIBLE OVERLOAD OR OVERCURRENT CONDITION EXTERNAL TO THE MACHINE. THE PROTECTIVE DEVICE SHALL BE LISTED AS A UTILITY GRADE PROTECTIVE DEVICE UNDER UL CATEGORY NRGU
 - PERMANENT MAGNET EXCITATION
 - MIN. 10 AMP BATTERY CHARGER, AUTOMATIC, SOLID–STATE, CURRENT LIMITING, FLOAT/EQUALIZING CHARGER WITH 4–STATE CHARGING ALGORITHM, 120–VOLT INPUT, OVERLOAD PROTECTION, D.C. AMMETER, D.C. VOLTMETER, LOW D.C. VOLTAGE ALARM RELAY, AND BE NCBCC APPROVED THIRD–PARTY LISTED AND LABELED.
 - CLASS H INSULATION (150 DEG C.)
 - SYNCHRONOUS, FOUR POLE, WITH 2/3 PITCH WINDING.
 - DUAL WALL SUB–BASE FUEL TANK, UL142 LISTED AND LABELED.
 - MICROPROCESSOR–BASED CONTROL FOR AUTOMATIC STARTING, MONITORING, AND CONTROL FUNCTIONS
 - CONTROL SHALL ALLOW FOR REMOTE MONITORING
 - PROVIDE REMOTE SHUTDOWN BUTTON LOCATED ON EXTERIOR OF FIRE DEPARTMENT BUILDING.
 - DIGITAL METERING SET, 100% ACCURACY, TO INDICATE RMS VOLTAGE AND CURRENT, FREQUENCY, OUTPUT KW, OUTPUT KVA, AND POWER FACTOR
 - TWO CIRCUIT BREAKERS PROVIDED WITH LOCKOUT KITS.
 - OUTDOOR WEATHER–PROTECTIVE AND LEVEL 2 SOUND ATTENUATED ENCLOSURE , NOT TO EXCEED 75db @ 23 FEET FROM ENCLOSURE. ENCLOSURE SHALL BE RATED FOR ASCE/SEI 7 WIND LOAD OF 140MPH.
 - THE ENGINE–GENERATOR ASSEMBLY SHALL BE FASTENED TO A WELDED STEEL BASE WHICH SHALL ALLOW MOUNTING TO A RAISED CONCRETE PAD OR THE SUB–BASE FUEL TANK. ANCHOR BOLTS AND VIBRATION ISOLATORS SHALL BE USED TO MOUNT THE HEAVY STEEL BASE TO THE CONCRETE PAD. VIBRATION ISOLATORS, EITHER INTEGRAL OR EXTERNAL, SHALL BE PROVIDED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER. VIBRATION ISOLATORS SHALL BE ONE–PIECE UNITS, RESISTANT TO CORROSION AND ENVIRONMENTAL DEGRADATION. WHEN SUB–BASE TANKS ARE SPECIFIED, VIBRATION ISOLATORS SHALL BE LOCATED BETWEEN THE GENERATOR SET AND THE FUEL TANK
 - A THERMOSTATICALLY CONTROLLED, IMMERSION TYPE ENGINE COOLANT HEATER SHALL BE PROVIDED. MINIMUM COOLANT TEMPERATURE SHALL NOT BE LESS THAN 120 DEGREES F. EACH HEATER SHALL BE PROVIDED WITH CONTACTOR IN A RATED NEMA ENCLOSURE. HEATER(S) SHALL NOT OPERATE WHILE THE ENGINE IS RUNNING.
 - 120 VAC GFCI DUPLEX RECEPTACLE
 - AC/DC INTERIOR LED LIGHTING KIT WITH BACK–UP POWER FROM GENERATOR BATTERY
 - ISO 8528 RATED
 - 5 YEAR COMPREHENSIVE WARRANTY
 - UL2200 LISTED FOR STATIONARY ENGINE GENERATOR ASSEMBLY.



1 ELECTRICAL RISER
SCALE: N.T.S.

NOTE: E.C. SHALL PROVIDE ALTERNATE PRICING FOR OWNER FURNISHED GENERATOR AND TRANSFER SWITCH, E.C. INSTALLED; VERSES ALL E.C. PROVIDED.

PANELBOARD SCHEDULE												
PANEL MDP	SURFACE MOUNTED							800 AMP (FEEDER SIZE)			1ø, 3 WIRE	
MAIN LUG ONLY	BOTTOM FEED				42K AIC			120/240 VOLT			BOLT ON BREAKER	
NEMA 1	COPPER BUS							800 AMP (BUS RATING)			SURGE PROTECTION	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD A	LOAD B	CKT NO.	PHASE A B	CKT NO.	LOAD A	LOAD B	CONDUIT SIZE	WIRE SIZE	LOAD SERVED
OVERHEAD DOOR	2#8 & 1#8G	3/4"	12	1	1	20	2	40				
OVERHEAD DOOR	2#8 & 1#8G	3/4"	12	3	3	20	4	40		3/4"	2#8 & 1#8G	AIR COMPRESSOR
OVERHEAD DOOR	2#8 & 1#8G	3/4"	12	5	5	20	6	50				
OVERHEAD DOOR	2#8 & 1#8G	3/4"	12	7	7	20	8	50		3/4"	3#6 & 1#8G	SCBA COMPRESSOR
OVERHEAD DOOR	2#10 & 1#10G	3/4"	12	9	9	20	10	–	–	–	–	SPARE
OVERHEAD DOOR	2#10 & 1#10G	3/4"	12	11	11	20	12	–	–	–	–	SPARE
OVERHEAD DOOR	2#10 & 1#10G	3/4"	12	13	13	20	14	10	–	–	2#10 & 1#10G	UH–1 & UH–2
OVERHEAD DOOR	2#12 & 1#12G	3/4"	12	15	15	20	16	10	–	–	2#10 & 1#10G	UH–3 & UH–4
OVERHEAD DOOR	2#12 & 1#12G	3/4"	12	17	17	20	18	4	–	–	2#12 & 1#12G	UH–5
SPARE	–	–	–	19	19	20	20	–	–	–	–	SPARE
SPARE	–	–	–	21	21	20	22	13	–	–	–	SPARE
SPARE	–	–	–	23	23	20	24	13	–	–	2#10 & 1#10G	WF–1
CORD REEL	2#10 & 1#10G	3/4"	3	25	25	20	26	2	3/4"	2#12 & 1#12G	WF–2	WF–2
CORD REEL	2#10 & 1#10G	3/4"	3	27	27	20	28	–	–	–	–	SPARE
CORD REEL	2#10 & 1#10G	3/4"	3	29	29	20	30	–	–	–	–	SPARE
CORD REEL	2#12 & 1#12G	3/4"	3	31	31	20	32	–	–	–	–	SPARE
CORD REEL	2#12 & 1#12G	3/4"	3	33	33	20	34	–	–	–	–	SPARE
CORD REEL	2#12 & 1#12G	3/4"	3	35	35	20	36	–	–	–	–	SPARE
CORD REEL	2#12 & 1#12G	3/4"	3	37	37	20	38	–	–	–	–	SPARE
CORD REEL	2#12 & 1#12G	3/4"	3	39	39	20	40	–	–	–	–	SPARE
SPARE	–	–	–	41	41	20	42	–	–	–	–	SPARE
SPARE	–	–	–	43	43	20	44	154	–	–	–	SPARE
SPARE	–	–	–	45	45	20	46	152	2"	3#3/0 & 1#6G	PANEL A	
SPARE	–	–	–	47	47	20	48	191	–	–	–	
SPARE	–	–	–	49	49	20	50	150	3"	3#350 & 1#4G	PANEL B	
CF–1	2#12 & 1#12G	3/4"	7	51	51	20	52	339	3"	3#500 & 1#3G	PANEL C	
			7	53	53	20	54	331	–	–	–	

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS.
COORDINATE BREAKERS, DISCONNECTS, AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS.
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

- 1 VERIFY AIR COMPRESSOR BREAKERS, DISCONNECTS, AND WIRE SIZES WITH OWNERS EQUIPMENT.
2 PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489.

SURGE PROTECTION NOTES:

1. SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS:
- FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449, 5TH EDITION, SPD TYPE 2
 - MINIMUM SINGLE–PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250KA FOR SERVICE ENTRANCE PANELS AND 150KA FOR SUB–PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVIS IN A GIVEN MODE.
 - LET–THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA)
 - 400V FOR 20KV PANEL AND 600V FOR 480V PANELS.
 - PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE.
 - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
 - NOMINAL RATING OF 20KA.



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PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY. B. TRENT



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| DESC: | DATE |

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL SCHEDULES

E3.01



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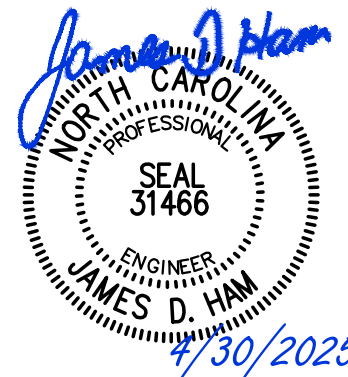
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E3.02

PANEL A		SURFACE MOUNTED								200 AMP (FEEDER SIZE)				1ø, 3 WIRE	
MAIN BREAKER		BOTTOM FEED				22K AIC *				120/240 VOLT				BOLT ON BREAKER	
NEMA 1		COPPER BUS								200 AMP (BUS RATING)				SURGE PROTECTION	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD A	LOAD B	CKT NO.	PHASE A B				CKT NO.	LOAD A	CONDUIT SIZE	WIRE SIZE	LOAD SERVED	
TRUCK BAY RECEPT	2#8 & 1#8G	3/4"	5	1	1	20	•	20	2	12	3/4"	2#8 & 1#8G	BAY LIGHTS		
TRUCK BAY RECEPT	2#8 & 1#8G	3/4"	5	3	3	20	•	20	4	12	3/4"	2#8 & 1#8G	BAY LIGHTS		
TRUCK BAY RECEPT	2#8 & 1#8G	3/4"	3	5	5	20	•	20	6	-	-	-	SPARE		
TRUCK BAY RECEPT	2#10 & 1#10G	3/4"	3	7	7	20	•	20	8	-	-	-	SPARE		
TRUCK BAY RECEPT	2#10 & 1#10G	3/4"	3	9	9	20	•	20	10	-	-	-	SPARE		
SPARE	-	-	-	-	11	20	•	20	12	-	-	-	SPARE		
SPARE	-	-	-	-	13	20	•	20	14	-	-	-	SPARE		
WF-3	2#12 & 1#12G	3/4"	3	15	15	20	•	20	16	5	-	-	-		
SPARE	-	-	-	-	17	20	•	20	18	5	1"	2#8 & 1#8G	FUEL PUMP (SHUNT TRIP)		
WH-2	2#8 & 1#8G	3/4"	13	19	19	20	•	20	20	-	-	-	-		
SPARE	-	-	-	-	21	20	•	20	22	5	1"	2#8 & 1#8G	FUEL PUMP (SHUNT TRIP)		
SPARE	-	-	-	-	23	20	•	20	24	-	-	-	-		
SPARE	-	-	-	-	25	20	•	20	26	-	-	-	SPARE		
REFRIGERATOR	2#10 & 1#10G	3/4"	5	27	27	20	•	20	28	-	-	-	SPARE		
ICE MACHINE	2#10 & 1#10G	3/4"	5	29	29	20	•	20	30	-	-	-	SPARE		
HP-6	2#8 & 1#8G	3/4"	16	31	31	25	•	20	32	2	3/4"	2#12 & 1#12G	GAS DET. PANEL		
				33	33	20	20	34	12	3/4"	2#12 & 1#12G	GEN HEAT			
CU-1	2#8 & 1#8G	3/4"	12	35	35	15	•	20	36	2	3/4"	2#12 & 1#12G	GEN BATT		
				37	37	80	•	20	38	16	3/4"	2#8 & 1#12G	FIRE PROT BFP		
RTU-1	2#4 & 1#8G	1"	67	39	39	20	•	20	40	12	3/4"	2#12 & 1#12G	DOMESTIC BFP		
				41	41	20	20	42	3	3/4"	2#12 & 1#12G	FACP			

COORDINATE HVAC BREAKERS AND WIRE SIZES WITH HVAC SUBMITTALS.
COORDINATE BREAKERS, DISCONNECTS, AND WIRE SIZES FOR OWNER FURNISHED EQUIPMENT WITH SUBMITTALS.
PROVIDE SEPARATE NEUTRALS FOR ALL CIRCUITS.

- * PROVIDE SERIES COMBINATION RATING WITH PANEL A BREAKER FOR 42KA.
- 1. PROVIDE WITH CLASS "A" (6mA) GFCI BREAKER IN ACCORDANCE WITH UL 489.
- 2. PROVIDE 30mA GFPE BREAKER FOR EQUIPMENT PROTECTION.
- 3. PROVIDE WITH LOCKING BREAKER & IDENTIFY WITH A RED MARKING PER NFPA 72-10.6.5.2 (2013).
- 4. COORDINATE WITH OWNER FOR SIZE AND QUANTITY OF FUEL PUMPS.

SURGE PROTECTION NOTES:

- SURGE SUPPRESSION SHALL BE RATED AS FOLLOWS:
 - FACTORY INSTALLED AS AN INTEGRAL PART OF INDICATED PANELBOARDS, COMPLYING WITH UL 1449, 5TH EDITION, SPD TYPE 2
 - MINIMUM SINGLE-PULSE SURGE CURRENT WITH STAND RATING PER PHASE SHALL NOT BE LESS THAN 250KA FOR SERVICE ENTRANCE PANELS AND 150KA FOR SUB-PANELS. THE PEAK SURGE CURRENT RATING SHALL BE THE ARITHMETIC SUM OF THE RATINGS OF THE INDIVIDUAL MOVES IN A GIVEN MODE.
 - LET-THROUGH VOLTAGES BASED ON IEEE TEST WAVES SHALL BE CAT C1 (6KV, 3KA) 400V FOR 208V PANEL AND 800V FOR 480V PANELS.
 - PROTECTION MODES AND UL1449VPR SHALL BE: 700V LINE TO NEUTRAL, 700V LINE TO GROUND, 600V NEUTRAL TO GROUND, & 1000V LINE TO LINE.
 - SHORT CIRCUIT CURRENT RATING GREATER THAN PANELBOARD
 - NOMINAL RATING OF 20KA.

CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
INDOOR LIGHTING = 2.9	100%	= 2.9
OUTDOOR LIGHTING = 2.3	100%	= 2.3
RECEPTACLES (1ST 10 KVA) = 2.3	100%	= 2.3
RECEPTACLES (ABV 10 KVA) = 50%	50%	= 1.15
HVAC = 23.2	100%	= 23.2
HVAC (NON-COINCIDENTAL) = 0%	0%	= 0
WATER HEATERS = 1.6	100%	= 1.6
DEDICATED RECP/EQUIP = 6.8	100%	= 6.8
TOTALS: = 36.7 KVA		= 36.7 KVA
MINIMUM PANEL SIZE: 37 KVA X 125% = 46 KVA (111 AMPS)		
GROSS PHASE TOTALS (AMPS) A = 164 B = 157		

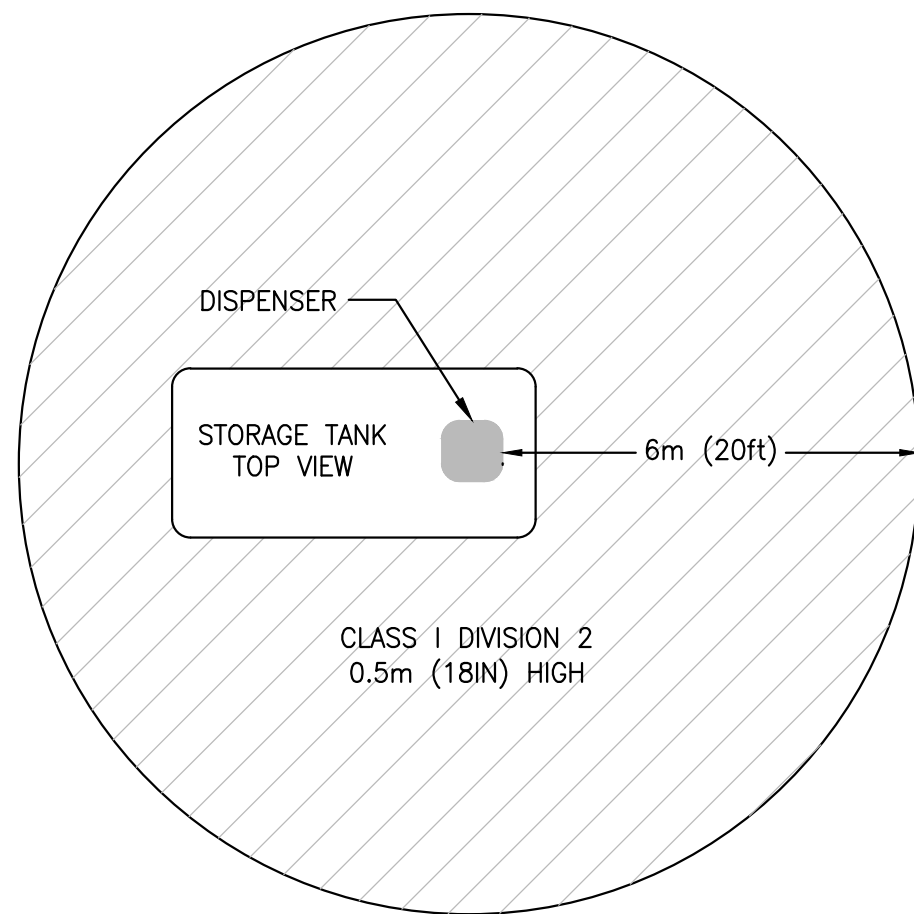
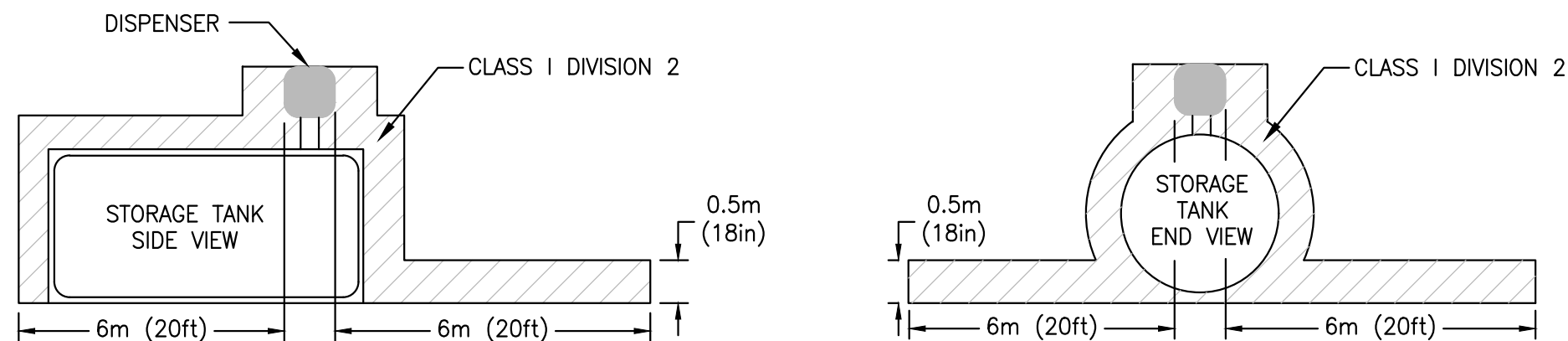
PANELBOARD SCHEDULE															
PANEL C		SURFACE MOUNTED								400 AMP (FEEDER SIZE)				1Ø, 3 WIRE	
MAIN BREAKER		BOTTOM FEED				22K AIC *				120/240 VOLT				BOLT ON BREAKER	
NEMA 1		COPPER BUS								400 AMP (BUS RATING)				SURGE PROTECTION	
LOAD SERVED	WIRE SIZE	CONDUIT SIZE	LOAD A	CKT NO.	PHASE A	PHASE B	CKT NO.	LOAD A	CONDUIT SIZE	WIRE SIZE	LOAD SERVED				
HP-1	2#10 & 1#10G	3/4"	14	1	30	20	2	8	3/4"	2#10 & 1#10G	LIGHTS				
HP-2	2#12 & 1#10G	3/4"	14	3	40	20	4	10	3/4"	2#12 & 1#12G	LIGHTS				
			20	5	20	20	6	-	-	SPARE					
HP-3	2#12 & 1#10G	3/4"	20	7	30	35	8	-	-	SPARE					
			14	9	20	20	10	25	3/4"	2#10 & 1#10G	WH-1				
HP-4	2#12 & 1#10G	3/4"	14	11	25	20	12	25	3/4"	2#10 & 1#10G	WH-1				
			11	13	20	20	14	-	-	SPARE					
HP-5	2#12 & 1#10G	3/4"	11	15	40	20	16	-	-	SPARE					
			20	17	20	20	18	12	3/4"	2#10 & 1#10G	BUNK RECEIPT				
AH-1	2#6 & 1#8G	3/4"	36	19	45	20	20	12	3/4"	2#12 & 1#12G	OFFICE RECEIPT				
			20	21	20	20	22	12	3/4"	2#12 & 1#12G	OFFICE RECEIPT				
AH-2	2#8 & 1#10G	3/4"	36	23	45	20	24	6	3/4"	2#12 & 1#12G	MECHANICAL RECEIPT				
			36	25	20	20	26	9	3/4"	2#12 & 1#12G	LOUNGE RECEIPT				
AH-3	2#8 & 1#10G	3/4"	36	27	45	20	28	9	3/4"	2#12 & 1#12G	LOUNGE RECEIPT				
			36	29	20	20	30	-	-	SPARE					
AH-4	2#10 & 1#10G	3/4"	36	31	30	20	32	6	3/4"	2#12 & 1#12G	RESTROOM RECEIPT				
			24	33	20	20	34	-	-	SPARE					
AH-5	2#8 & 1#10G	3/4"	24	35	45	20	36	-	-	SPARE					
			36	37	20	20	38	5	3/4"	2#12 & 1#12G	DATAKOM RECEIPT				
SPARE	-	-	-	36	39	20	20	40	3	3/4"	2#12 & 1#12G	DATAKOM RECEIPT			
SPARE	-	-	-	41	20	20	20	42	3	3/4"	2#12 & 1#12G	DATAKOM RECEIPT			
SPARE	-	-	-	43	20	20	20	44	3	3/4"	2#12 & 1#12G	DATAKOM RECEIPT			
SPARE	-	-	-	45	20	20	20	46	3	3/4"	2#12 & 1#12G	DATAKOM RECEIPT			
SPARE	-	-	-	47	20	20	20	48	6	3/4"	2#10 & 1#10G	FITNESS RECEIPT			
FITNESS RECEIPT	2#10 & 1#10G	3/4"	6	49	20	20	20	50	6	3/4"	2#10 & 1#10G	FITNESS RECEIPT			
FITNESS RECEIPT	2#10 & 1#10G	3/4"	6	51	20	20	20	52	6	3/4"	2#10 & 1#10G	FITNESS RECEIPT			
FITNESS RECEIPT	2#10 & 1#10G	3/4"	6	53	20	20	20	54	6	3/4"	2#10 & 1#10G	FITNESS RECEIPT			

ELECTRICAL LEGEND			
SYM.	DESCRIPTION	REF. MODEL NO.	REMARKS
①	JUNCTION BOX	–	DOUBLE GANG UNO
① ③	THERMOSTAT OR SENSOR JUNCTION BOX	–	MOUNT 48" TOD AFF UNO
□	NON-FUSED DISCONNECT	–	–
⌞	FUSED DISCONNECT	–	–
ⓈDT	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LOW VOLTAGE)	WATTSTOPPER DT-305	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
ⓈDT	CEILING OCCUPANCY SENSOR DUAL TECHNOLOGY (LINE VOLTAGE – 800W)	WATTSTOPPER DT-355	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
ⓈUS	CEILING OCCUPANCY SENSOR (LOW VOLTAGE)	WATTSTOPPER WT-1105 OR WT-2205	CONTRACTOR SHALL VERIFY COVERAGE OF SENSORS
ⓈOS	WALL SWITCH WITH OCCUPANCY SENSOR (PASSIVE INFRARED)	WATTSTOPPER PW-100, OR EQUAL	–
ⓈD,OS	DIMMING WALL SWITCH WITH OCC SENSOR (0-10VDC DIMMING & DUAL TECH)	WATTSTOPPER DW-311	MULTI-WAY CONTROL UP TO FOUR SWITCH LOCATIONS
Ⓢ	SWITCH	HUBBELL CSB120x	–
ⓈD	0-10V DIMMER SWITCH	HUBBELL PSD710-UNV	STAND ALONE CONTROL
Ⓢ3	3 WAY SWITCH	HUBBELL CS320x	–
Ⓢ4	4 WAY SWITCH	HUBBELL CS420x	–
ⓈM	MANUAL MOTOR SWITCH	SIEMENS MMS	MOUNT AS REQUIRED
ⓈSC	SPEED CONTROL SWITCH	–	PROVIDED BY M.C., INSTALLED BY E.C.
ⓈOHD	OVERHEAD DOOR CONTROL	–	MOUNT AS REQUIRED
Ⓢ	EMERGENCY LIGHT	–	SOLID FILL HATCHING
Ⓢ	RECEPTACLE	HUBBELL HBL5352x	CONTROLLED RECEPTACLE
ⓈTR	TAMPER RESISTANT RECEPTACLE	HUBBELL BR20xTR	–
ⓈGFI	GROUND FAULT RECEPTACLE	HUBBELL GFRST20x	SELF TESTING PER UL 943
ⓈWR GFI	GROUND FAULT, WEATHER RESIST RECEPT.	HUBBELL GFTWRST20x W/IN USE* COVER	SELF TESTING PER UL 943
ⓈCLG	CEILING RECEPTACLE	–	–
ⓈPRJ	CEILING RECEPTACLE FOR PROJECTOR	–	COORDINATE LOCATION WITH ARCHITECT
Ⓢ	SPECIAL RECEPTACLE	–	COORDINATE WITH EQUIPMENT
ⓈFLR	FLOOR RECEPTACLE	–	REFER TO FLOOR BOX DETAILS
ⓈFLR	FLOOR RECEPTACLE	–	REFER TO FLOOR BOX DETAILS
Ⓢ	DOUBLE DUPLEX RECEPTACLE	HUBBELL (2) HBL5352x	–
XX-YY	XX=PANEL YY=CIRCUIT IDENTIFIER	–	–
#	DATA/PHONE OUTLET	–	DOUBLE GANG UNO # INDICATES CABLE QUANTITY. IF NUMBER NOT SHOWN, SEE DETAIL FOR QUANTITY.
CR	DOOR CARD READER	–	SEE SECURITY DOOR DETAILS
S	SMOKE DAMPER	–	–
NOTES: 1. STANDARD MOUNTING HEIGHTS OF DEVICES SHALL BE AS LISTED IN LEGEND. SPECIFIC MOUNTING HEIGHT OF A DEVICE MAY VARY AS NOTED ON PLANS. 2. E.C. SHALL COORDINATE COLOR SELECTION OF DEVICES AND COVERPLATES WITH ARCHITECT, OWNER AND/OR G.C. 3. PROVIDE EQUIPMENT SHOWN BY HUBBELL, PASS & SEYMOUR, COOPER WIRING DEVICES, OR EQUAL PRODUCT. 4. PROVIDE LOW VOLTAGE OCCUPANCY SENSORS WITH POWER PACKS AS REQUIRED.			
ABBREVIATIONS:			
G.C.	GENERAL CONTRACTOR	AFG	ABOVE FINISHED GRADE
P.C.	PLUMBING CONTRACTOR	UNO	UNLESS NOTED OTHERWISE
M.C.	MECHANICAL CONTRACTOR	℄	CENTERLINE OF DEVICE
E.C.	ELECTRICAL CONTRACTOR	BOD	BOTTOM OF DEVICE
AFF	ABOVE FINISHED FLOOR	TOD	TOP OF DEVICE

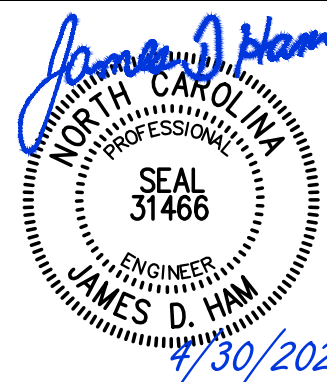
ELECTRICAL ENERGY SUMMARY ELECTRICAL SYSTEMS AND EQUIPMENT:	
METHOD OF COMPLIANCE:	
NC ENERGY CODE 2018:	<input checked="" type="checkbox"/> PRESCRIPTIVE <input type="checkbox"/> PERFORMANCE (C101-2-EXEPT #2)
ASHRAE 90.1 2016:	<input type="checkbox"/> PRESCRIPTIVE <input type="checkbox"/> PERFORMANCE
LIGHTING SCHEDULE	
LAMP TYPE REQUIRED IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF LAMPS IN FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
BALLAST TYPE USED IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
NUMBER OF BALLASTS IN THE FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL WATTAGE PER FIXTURE	SEE LIGHTING SCHEDULE ON PLANS
TOTAL INTERIOR WATTAGE SPEC. VS ALLOWED	7859 WATTS SPEC. VS 10305 WATTS ALLOWED
<input type="checkbox"/> WHOLE BLDG	<input checked="" type="checkbox"/> SPACE BY SPACE
TOTAL EXTERIOR WATTAGE SPEC. VS ALLOWED	828 WATTS SPEC. VS 1215 WATTS ALLOWED
ZONE: 3	ALLOWANCE: 750 WATTS
ADDITIONAL PRESCRIPTIVE COMPLIANCE (WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)	
<input type="checkbox"/> C406.2.1 MORE EFFICIENT MECHANICAL EQUIPMENT	
<input type="checkbox"/> C406.2.2 REDUCED LIGHTING POWER DENSITY	
<input type="checkbox"/> C406.2.3 ENHANCED LIGHTING CONTROLS	
<input type="checkbox"/> C406.2.4 ON-SITE SUPPLY OF RENEWABLE ENERGY	
<input type="checkbox"/> C406.2.5 PROVISION OF A DEDICATED OUTDOOR AIR SYSTEM	
<input type="checkbox"/> C406.2.6 HIGH-EFFICIENCY SERVICE WATER HEATING	

LIGHT FIXTURE SCHEDULE														MULTI-VOLT INPUT DIMMING 10-10V STEP LEVEL DIMMING BATTERY BACK-UP BATTERY BACK-UP WET LOCATION LISTED STANDARD COLOR SELECTED BY ARCH. CUSTOM COLOR SELECTED BY ARCH.	REMARKS
MARK	DESCRIPTION	REF MANF	MODEL NUMBER FOR FIXTURE REFERENCE QUALITY AND APPEARANCE	SOURCE	LED LUMENS	COLOR TEMP	CRI	FIXTURE INPUT WATTS	VOLTS						
A	2x2 LED FLAT PANEL	LITHONIA	CPANL 2X2 AL01 SWW7 M4	LED	4,000	40K	80	30	120	●	●				
A1	2x2 LED FLAT PANEL (EMERGENCY)	LITHONIA	CPANL 2X2 AL01 SWW7 M4 ILB CP10A	LED	4,000	40K	80	30	120	●	●		●		
B	2x4 LED FLAT PANEL	LITHONIA	CPANL 2X4 AL06 SWW7 M2	LED	5,000	40K	80	44	120	●	●				
B1	2x4 LED FLAT PANEL (EMERGENCY)	LITHONIA	CPANL 2X4 AL06 SWW7 M2 ILB CP10A	LED	5,000	40K	80	44	120	●	●		●		
C	2x4 LED FLAT PANEL	LITHONIA	CPANL 2X4 AL06 SWW7 M2	LED	4,000	40K	80	35	120	●	●				
C1	2x4 LED FLAT PANEL (EMERGENCY)	LITHONIA	CPANL 2X4 AL06 SWW7 M2 ILB CP10A	LED	4,000	40K	80	35	120	●	●		●		
F	6" RECESSED DOWNLIGHT	LITHONIA	LDN6 AL03 SWW1 L06 AR LSS MVOLT UGZ	LED	2,500	40K	80	32	120	●	●				
F1	6" RECESSED DOWNLIGHT (EMERGENCY)	LITHONIA	LDN6 AL03 SWW1 L06 AR LSS MVOLT UGZ E10WCP	LED	2,500	40K	80	32	120	●	●		●		
G	LINEAR DIRECT/INDIRECT	PEERLESS	EGRM4L LLP 28FT MSL8 80CRI 40K 1000LMF MIN1 ZT 120 SCT 72A	LED	55/FT	40K	80	9/FT	120	●	●				
G1	LINEAR DIRECT/INDIRECT (EMERGENCY)	PEERLESS	EGRM4L LLP 28FT MSL8 80CRI 40K 1000LMF MIN1 ZT 120 SCT_E10WLCP 72A	LED	55/FT	40K	80	9/FT	120	●	●		●		
H	8' LED STRIPLIGHT	LITHONIA	CLX L96 20000LM SEF RDL MVOLT GZ10 40K 80CRI SPD ZACVH M100	LED	20,000	40K	80	141	120	●	●				
H1	8' LED STRIPLIGHT (EMERGENCY)	LITHONIA	CLX L96 20000LM SEF RDL MVOLT GZ10 40K 80CRI E10W SPD ZACVH M100	LED	20,000	40K	80	141	120	●	●		●		
J	4' LED STRIPLIGHT	LITHONIA	CLX 48 7000LM SEF RDL MVOLT GZ10 40K 80CRI	LED	7,000	40K	80	47	120	●	●				
J1	4' LED STRIPLIGHT (EMERGENCY)	LITHONIA	CLX 48 7000LM SEF RDL MVOLT GZ10 40K 80CRI E10W	LED	7,000	40K	80	47	120	●	●		●		
K	8' LED STRIPLIGHT	LITHONIA	CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI	LED	10,000	40K	80	64	120	●	●				
K1	8' LED STRIPLIGHT (EMERGENCY)	LITHONIA	CLX L96 10000LM SEF RDL MVOLT GZ10 40K 80CRI E10W	LED	10,000	40K	80	64	120	●	●		●		
L1	4' STAIR WALL MOUNT (EMERGENCY)	PRUDENTIAL	FLAIR-PRO LED4 SO 4' SAL UNV SUR X3 STEP EMHE	LED	4,700	40K	80	37	120	●		●	●	●	
M	2' LED STRIP LIGHT	LITHONIA	ZL1D L24 2500LM FST MVOLT 40K 80CRI WH	LED	2800	40K	80	24	120	●	●				
EXIT	EXIT LIGHT	LITHONIA	LQM LED R	LED	–	–	–	4	120	●	●				
EXTERIOR LIGHTS															
XA	EXTERIOR WALL PACK	LITHONIA	ARC2 LED P2 40K MVOLT	LED	2,000	40K	80	16	120	●				●	●
XA1	EXTERIOR WALL PACK (EMERGENCY)	LITHONIA	ARC2 LED P2 40K MVOLT E4WH	LED	2,000	40K	80	16	120	●			●	●	
XB	EXTERIOR WALL PACK	LITHONIA	ARC2 LED P5 40K MVOLT	LED	6,500	40K	80	51	120	●				●	●
XC	EXTERIOR PENDANT	STERNBERG	1W GL1960 GWR 12L 40 T3 MDL006	LED	2800	40K	70	20	120	●				●	●
XD	FLAG LIGHT	LITHONIA	DSX1 LED P2 40K MSP MVOLT IS DDBXD AFTM	LED	5200	40K	80	42	120	●				●	●

- NOTES:
1. PROVIDE EXIT LIGHTS WITH SINGLE OR DOUBLE-FACE AS REQUIRED, CHEVRON DIRECTIONAL INDICATORS, MOUNTING BRACKETS AND NICKEL CADMIUM BATTERY BACKUP.
2. BATTERIES INSTALLED OUTDOORS SHALL BE RATED -4F TO 130F.
3. BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES PER NC FIRE CODE SECTION 1006.3 & 1011.5.3. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
4. PRODUCTS LISTED ARE DESIGN BASIS. EQUAL SUBSTITUTION SUBMITTALS FROM ACUTY, PHILIPS, COOPER, OR HUBBELL WILL BE EVALUATED.
5. CONTRACTOR SHALL SUBMIT LIGHTING PLAN SHEET(S) WITH SCHEDULE TO SUPPLIER FOR FIXTURE SELECTION.



- ① CLASSIFIED AREA ADJACENT TO DISPENSER MOUNTED ABOVE GROUND STORAGE TANK
SCALE: N.T.S.



REVISIONS:	
#	DESC. DATE

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL NOTES

E4.01



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PROJECT NO. 224010 PROJECT MGR. DRAWN BY
D. HAM B. TRENT



REVISIONS:		
#	DESC:	DATE

DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

ELECTRICAL NOTES

E4.02

ELECTRICAL NOTES:

- ELECTRICAL PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE ELECTRICAL SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT. THIS INCLUDES ALL REQUIRED CONTROL WIRING OR WIRING CALLED FOR BY THE MANUFACTURER. INSTALLATION SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF ELECTRICAL INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
- ALL WORK SHALL COMPLY WITH THE LATEST VERSION OF THE NATIONAL ELECTRICAL CODE (NEC). WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
- BEFORE SUBMITTING SHOP DRAWINGS TO ENGINEER FOR REVIEW, CONTRACTOR SHALL REVIEW AND COORDINATE SUBMITTALS (SHOP DRAWINGS) WITH OTHER SUBMITTALS AND WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTOR IS RESPONSIBLE FOR AND SHALL DETERMINE AND VERIFY ALL FIELD MEASUREMENTS, QUANTITIES, DIMENSIONS, AND INSTALLATION REQUIREMENTS. PROVIDE WRITTEN NOTICE OF ANY DEVIATIONS
- PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS, STARTERS, DEVICES AND ELECTRICAL COMPONENTS UNLESS SPECIFICALLY NOTED AS PROVIDED BY OTHERS. COORDINATE LOCATION AND WIRING OF DEVICES WITH OTHER TRADES OR SUPPLIERS OF EQUIPMENT SUCH AS: ELEVATOR, FIRE PUMP AND FIRE PROTECTION PLANS, KITCHEN HOOD, KITCHEN COOLER, ETC. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FIELD WIRING OF SPECIALTY ITEMS UNLESS NOTED OTHERWISE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE AND LOAD SIDE WIRING INCLUDING ALL TERMINATIONS TO EQUIPMENT PROVIDED UNDER OTHER TRADES. POWER WIRING TO CONTROL DEVICES SHALL BE PROVIDED BY E.C.. INTERLOCK WIRING SHALL BE PROVIDED BY THE CONTRACTOR INSTALLING THE CONTROL DEVICE.
- ALL WIRING, PANELBOARDS, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED. ALL MATERIALS SHALL MEET THE NEC FOR THE INTENDED USE AND INSTALLED IN ACCORDANCE WITH THE NEC.
- PROVIDE THHN/THWN COPPER WIRE (UL 83 LISTED). PROVIDE A MINIMUM WIRE SIZE OF #12. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS AND CONDUIT ON PLANS AND SCHEDULES REFLECT AMPACITIES PER NEC TABLE 310.16 75C RATING. CONTRACTOR SHALL VERIFY ALL TERMINATIONS, LUGS, ETC. ARE RATED FOR USE PER NEC 110.14(C). OTHERWISE PROVIDE CONDUCTOR AND CONDUIT SIZED PER LOWEST TEMPERATURE RATING OF ANY TERMINATION WITHIN A CIRCUIT. A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED FOR ALL CIRCUITS. ALL EQUIPMENT FEEDERS SHALL BE RUN CONTINUOUS FROM THE BREAKER TO THE DISCONNECT SWITCH; SPLICES ARE NOT ALLOWED. #10 AWG SHALL BE USED FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS WITH A TOTAL INSTALLED LENGTH GREATER THAN 100 FEET. WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE FIRST OUTLET ON A 120 VOLT CIRCUIT EXCEEDS 100 FEET, THE CONDUCTOR TO THE FIRST OUTLET SHALL NOT BE SMALLER THAN #10 AWG. WHERE THE CONDUCTOR LENGTH IS GREATER THAN 150 FEET, THEN USE #8 AWG, AND IF GREATER THAN 250 FEET, USE #6 AWG.
- COLOR CODING OF WIRE SHALL BE AS FOLLOWS:

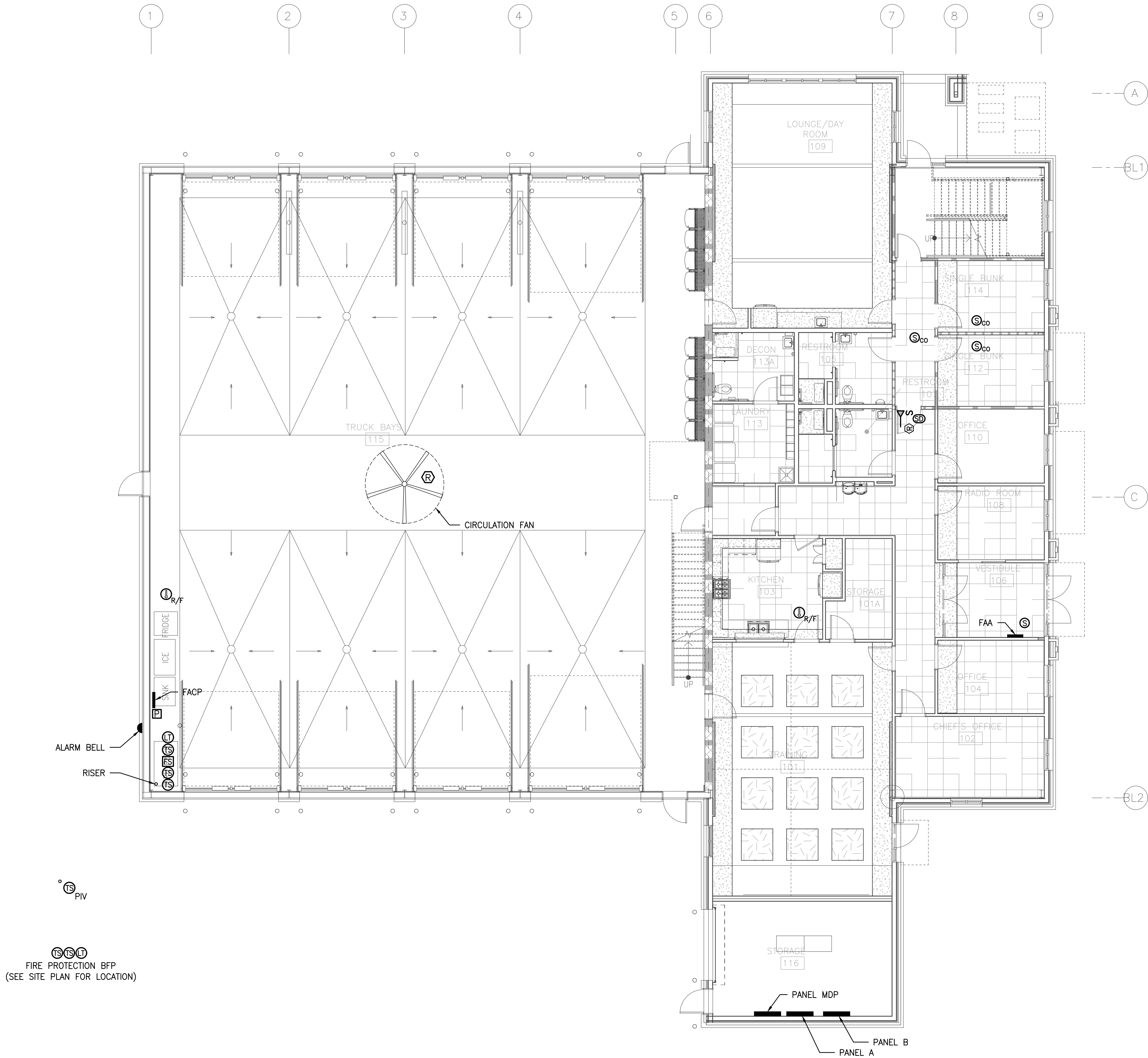
240/120V PHASE A	BLACK
PHASE B	RED
NEUTRAL	WHITE
E.G. GROUND	GREEN
- PROVIDE LABELS ON ALL RECEPTACLES IDENTIFYING PANEL AND CIRCUIT NUMBER. LABELS SHALL BE BRADY CLEAR POLYESTER 1"W X 0.375"H OR PANDUIT EQUAL, WITH BLACK LETTERING. MARK ALL JUNCTION BOXES ABOVE CEILING WITH PANEL AND CIRCUIT NUMBER USING PERMANENT MARKER. PROVIDE PHENOLIC LABEL ON EXTERIOR BOXES WITH EQUIPMENT DESCRIPTION, AND PANEL AND CIRCUIT NUMBER. BOXES SHALL NOT BE INSTALLED IN AN INACCESSIBLE LOCATION.
- PROVIDE MINIMUM 3/4" CONDUIT FOR ALL WIRING. ALL RACEWAYS SHALL BE INSTALLED WITHIN WALLS, INCLUDING BLOCK, UNLESS NOTED OTHERWISE. FLEXIBLE METAL CONDUIT WITH A MAXIMUM LENGTH OF 6' MAY BE USED FOR THE CONNECTION OF LIGHT FIXTURES TO JUNCTION BOXES. EMT OR RIGID SHALL BE USED WHERE EXPOSED TO PHYSICAL DAMAGE. CONDUIT ABOVE GRADE SHALL BE STEEL. EMT SHALL NOT BE USED IN DIRECT CONTACT WITH THE EARTH, EXTERIOR LOCATIONS, OR WHERE EXPOSED TO SEVERE PHYSICAL DAMAGE. FITTINGS ON EMT CONDUIT SHALL BE COMPRESSION TYPE. FITTINGS ON IMC OR RGS SHALL BE THREADED. MOTOR CONNECTIONS SHALL BE MADE WITH FMC, MIN. 18" LONG AND MAX 36". USE PVC JACKETED FLEXIBLE LIQUID TIGHT CONDUIT TYPE UA FOR CONNECTIONS IN WET LOCATIONS. LOCATE JUNCTION AND PULL BOXES SUCH THAT THEY REMAIN ACCESSIBLE AFTER ALL CONSTRUCTION WORK IS COMPLETE.
- EMT CONDUIT PROVIDED BELOW ROOF DECK SHALL BE INSTALLED A MINIMUM OF 2 INCHES AWAY FROM THE DECK. ALL EMPTY RACEWAYS SHALL BE PROVIDED WITH PULL STRING. INSTALL NO MORE THAN EQUIVALENT OF THREE 90-DEGREE BENDS IN CONDUIT RUN. SUPPORT WITHIN 12 INCH OF CHANGES IN DIRECTION. MAKE BENDS IN RACEWAY USING LARGE-RADIUS PREFORMED ELLS EXCEPT FOR PARALLEL BENDS. FIELD BENDING MUST BE IN ACCORDANCE WITH NFPA 70 MINIMUM RADI REQUIREMENTS. PROVIDE ONLY EQUIPMENT SPECIFICALLY DESIGNED FOR MATERIAL AND SIZE INVOLVED. CONCEAL CONDUIT WITHIN FINISHED WALLS, CEILINGS, AND FLOORS UNLESS OTHERWISE INDICATED OR AT SURFACE MOUNTED PANELBOARDS. INSTALL CONDUITS PARALLEL OR PERPENDICULAR TO BUILDING LINES. SUPPORT CONDUIT WITHIN 12 INCH OF ENCLOSURES TO WHICH ATTACHED. RUN RACEWAYS LARGER THAN 1 INCH TRADE SIZE BELOW CONCRETE SLAB. EXPOSED CONDUIT IN FINISHED ROOMS SHALL BE MOUNTED ADJACENT TO WALL SURFACE. FEEDER CONDUITS SHALL BE INSTALLED WITH LIMITED EXPOSURE. STANDARD TYPE SUPPORTS ARE NOT ALLOWED. PROVIDE COPPER "DURA-BLOCK" SUPPORTS FOR CONDUITS INSTALLED OUTDOORS AND ROUTED ACROSS ROOF OR CONCRETE. SEAL SERVICE RACEWAYS ENTERING A BUILDING FROM AN UNDERGROUND SYSTEM PER NEC 230.8 AND 300.5(G). WHERE CONCENTRIC, ECCENTRIC OR OVER-SIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING-TYPE INSULATED BUSHING SHALL BE PROVIDED FOR CIRCUITS OVER 250V PER NEC 250.97.
- PROVIDE ONE-INCH CONDUITS EXTENDING ABOVE CEILING FOR ALL TELEPHONE AND DATA OUTLETS SHOWN ON PLANS. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT. SEE PLAN DETAILS FOR CABLE REQUIREMENTS AT EACH LOCATION. PROVIDE 12 INCH SERVICE LOOP ABOVE EACH OUTLET. PROVIDE J-HOOKS ON MAXIMUM 30" SPACING. INSTALL J-HOOKS APPROXIMATELY 12-24 INCHES ABOVE CEILING WHEN POSSIBLE FOR EASY FUTURE ACCESS. SUPPORTS SHALL ALLOW FOR 20 PERCENT FUTURE WIRING. PENETRATIONS THROUGH FIRE WALLS SHALL BE MADE WITH CONDUITS.
- LARGE BUNDLES OF DATA CABLES SHALL BE COMBED AND TIE-WRAPPED IN NEAT BUNDLES. TIE-WRAPPS SHALL BE HOOK AND LOOP OR RELEASABLE TYPE. PROVIDE EIGHT-POSITION MODULAR, IDC-TYPE JACKS ON BOTH ENDS OF DATA CABLES EQUAL TO RATING OF CABLE. PROVIDE FACEPLATES OF MATERIAL EQUAL TO RECEPTACLE FACEPLATE UNLESS NOTED OTHERWISE. TERMINATE ALL DATA/PHONE CABLES ON BOTH ENDS AND COMPLYING WITH ANSI/TIA-568-C.1. LABEL CABLES ON BOTH ENDS AND PATCH PANELS FRONT AND REAR WITH OWNER'S STANDARD LABELING. PROVIDE PATCH PANEL QUANTITY TO MATCH CABLE QUANTITY PLUS 10% SPARE. PROVIDE LABELING, TESTING AND MAPPING OF ALL CABLES AND SUBMIT REPORT TO OWNER. SWITCHES, HUBS, UPS, PATCH CABLES PROVIDED BY OWNER. INSTALL CABLE WITH 10 FEET OF SLACK NEAR THE EQUIPMENT RACKS. SLACK CABLE SHALL NOT BE COILED, BUT STORED IN A FIGURE 8, "U" OR "S" PATTERN.
- PROVIDE MINIMUM 6 FEET OF SLACK DATA CABLE COILED ON J-HOOK AT EACH CEILING PROJECTOR LOCATION AND 6 FEET OF SLACK FMC POWER CABLE COILED AND SUPPORTED TO ALLOW FOR FUTURE RELOCATION OF PROJECTOR.
- PROVIDE 3/4-INCH EMPTY CONDUITS TERMINATING ABOVE THE CEILING FOR ALL HVAC THERMOSTATS. JUNCTION BOXES SHALL MATCH ORIENTATION OF THERMOSTATS PROVIDED BY M.C.. MOUNT JUNCTION BOXES 48-INCHES A.F.F. UNLESS NOTED OTHERWISE. PROVIDE PROTECTIVE BUSHINGS ON ENDS OF CONDUIT.
- PANELBOARDS FOR SERVICE ENTRANCE SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEMA 3R PANELBOARDS WHERE LOCATED OUTSIDE. PROVIDE COPPER NEUTRAL AND GROUNDING BARS IN ALL PANELBOARDS UNLESS NOTED OTHERWISE (ALUMINUM IS NOT ALLOWED). GROUND ALL SERVICE ENTRANCE PANELS AND RACEWAYS (BONDING BUSHINGS) IN ACCORDANCE WITH THE NEC. PROVIDE BOLT-IN BREAKERS UNLESS NOTED OTHERWISE. PROVIDE A MINIMUM OF THREE SPARE 3/4" CONDUITS TO ABOVE CEILING FOR ALL FLUSH MOUNTED PANELBOARDS. PANELS SHALL BE FULLY RATED FOR SHORT CIRCUIT CURRENT, SERIES RATINGS ARE NOT ALLOWED. IF PANEL FEEDER SUPPLY LOCATION IS NOT EVIDENT, PROVIDE LABEL ON PANEL STATING, "POWER SUPPLY FOR PANEL "xx" ORIGINATES AT "xx". PANEL TRIMS SHALL BE HINGED OR DOOR-IN-DOOR TO ALLOW ACCESS TO WIRING WITHOUT REMOVING TRIM. CIRCUIT BREAKERS ADDED TO EXISTING PANELBOARDS SHALL MATCH THE A.I.C. RATING AND BE UL LISTED FOR USE IN THAT PANEL.

ELECTRICAL NOTES CONTINUED:

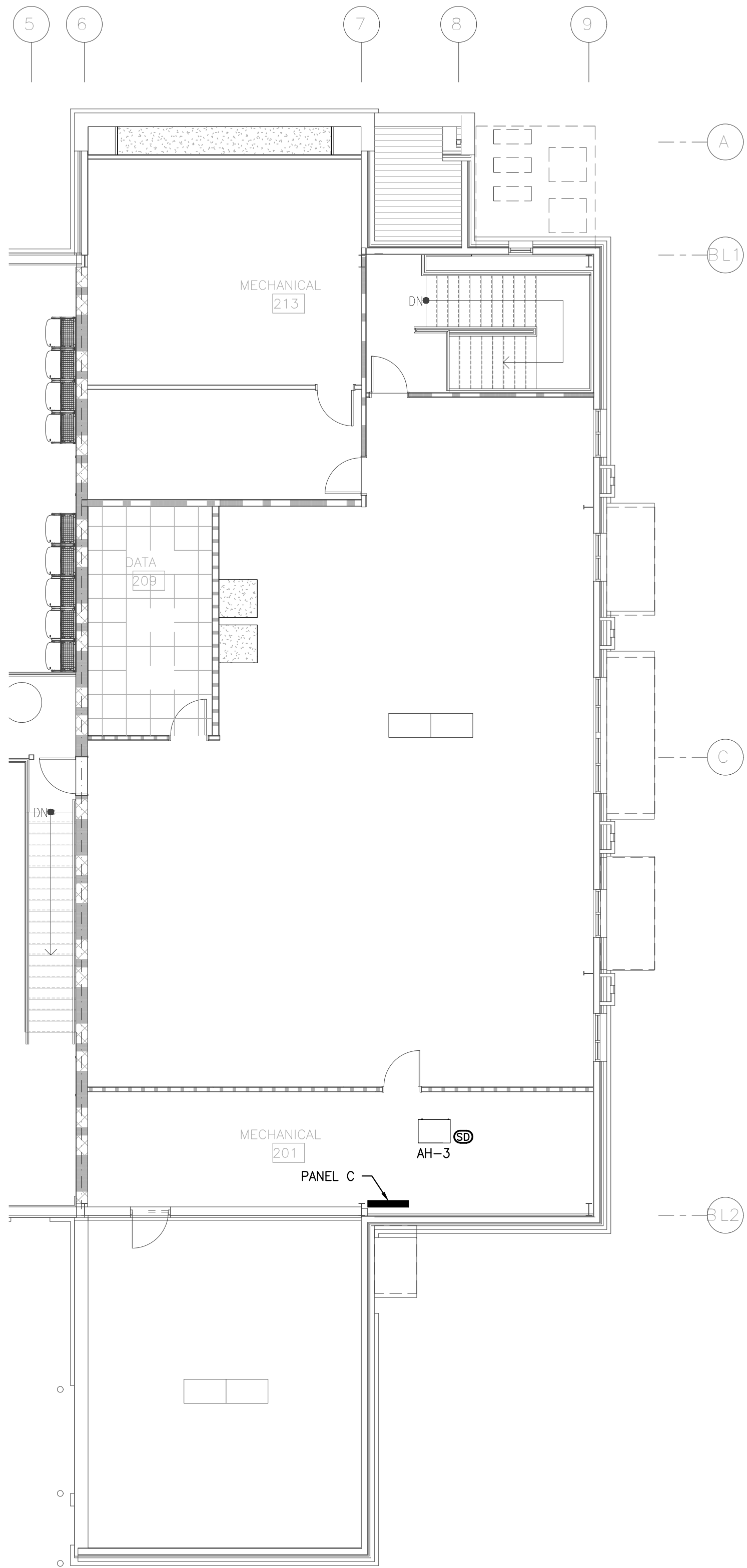
- PROVIDE MACHINE TYPED PANEL SCHEDULES IN EACH PANEL INDICATING THE SPECIFIC LOAD DESCRIPTION FOR EACH BREAKER PER NEC 408.4 (GENERAL DESCRIPTIONS SUCH AS "RECEPTACLE" ARE NOT ALLOWED. INDICATE ROOM NUMBERS FOR EACH LOAD.) LABEL PANELS ON PANEL FACE WITH PHENOLIC LABELS INDICATING PANEL NUMBER OR LETTER DESIGNATION, VOLTAGE, CURRENT RATING AND PHASE. PROVIDE ALL PANELBOARDS, SWITCHBOARDS, CONTROL PANELS, ETC. WITH WARNING SIGN FOR POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. PROVIDE PHENOLIC LABEL FOR SUB-PANELS DENOTING POWER SOURCE PER NEC 408.4(B) READING "TED FROM PANEL "--".
- GROUND RODS SHALL BE COPPER CLAD STEEL, DIAMETER OF 3/4" x 10' LENGTH MINIMUM. SPACE RODS SUCH THAT THERE IS A MINIMUM OF 10 FEET SPACING BETWEEN RODS. DRIVE RODS 6 INCHES BELOW GRADE. CONNECTIONS TO RODS SHALL BE BY EXOTHERMIC WELDS OR COMPRESSION CONNECTORS. GROUNDING TO BUILDING STEEL FOR SERVICE CONNECTION AND ANY SEPARATELY DERIVED SYSTEM SHALL BE BY EXOTHERMIC WELD.
- PROVIDE HEAVY DUTY FUSED AND NON-FUSED DISCONNECT SWITCHES AS INDICATED ON PLANS. DISCONNECTS LOCATED OUTSIDE SHALL BE NEMA-3R. PROVIDE REJECTION CLIPS IN FUSED DISCONNECTS. LABEL DISCONNECT WITH PHENOLIC LABEL INDICATING PANEL AND CIRCUIT NUMBER FEEDING EQUIPMENT.
- PROVIDE NEMA (IEC NOT ALLOWED) HORSEPOWER RATED STARTERS AND DISCONNECTS WHEN CONNECTED TO MOTORS. STARTERS SHALL BE PROVIDED WITH OVERLOAD SIZED TO MATCH MOTOR RATINGS. PROVIDE WITH ENCLOSURE RATED FOR THE INSTALLED ENVIRONMENT WITH PADLOCK GUARD FOR LOCKING IN THE "OFF" OR "STOP" POSITION.
- PROVIDE LIGHTING AS SCHEDULED IN THE FIXTURE SCHEDULE OR OTHERWISE NOTED ON PLANS. LIGHTING INSTALLED IN SUSPENDED CEILINGS SHALL BE SUPPORTED INDEPENDENTLY OF THE CEILING GRID SYSTEM WITH #12 WIRE. SECURE FIXTURES TO CEILING FRAMING MEMBER BY MECHANICAL MEANS PER NEC 410.36. LIGHTING CIRCUITS SHALL NOT SHARE NEUTRALS. LED FIXTURES SHALL CONTAIN COMPONENTS THAT ARE MODULAR IN DESIGN AND EASILY REPLACEABLE/UPGRADABLE. COORDINATE LOCATION OF EXTERIOR FIXTURES WITH ARCHITECTURAL ELEVATION DRAWINGS. THE E.C. SHALL BE RESPONSIBLE FOR ENSURING ALL COMPONENTS (FIXTURES, LED DRIVERS, AND CONTROLS) ARE FULLY COMPATIBLE PRIOR TO ORDERING. PROVIDE ALL REQUIRE MOUNTING HARDWARE, CONNECTORS, AND FIXTURE OPTIONS TO PROVIDE A COMPLETE AND OPERATIONAL INSTALLATION.
- FIXTURE WHIPS TO DIMMABLE LED DRIVERS SHALL BE A MAXIMUM OF 6-FEET LONG, PRE-MANUFACTURED WITH CONTROL WIRING INTERNAL TO THE FIXTURE. MEETING BOTH UL AND NEC REQUIREMENTS. THE CONTROL WIRING SHALL MEET NEC SECTION 300.3(C)(1) AND 725.136. CLASS 2 OR 3 CIRCUITS SHALL BE 16/2 PVC JACKETED WITH GRAY AND PURPLE STRANDED CONDUCTORS.
- PROVIDE EMERGENCY AND EXIT LIGHTS AS SHOWN ON PLANS. PER NFPA 101 SECTION 7.10.1.9. POWER SHALL BE PROVIDED FROM LIGHTING CIRCUITS ON THE UNSWITCHED LEG OF THE CIRCUIT SUCH THAT POWER TO THE EMERGENCY AND EXIT LIGHTS IS NOT DISCONNECTED WHEN NORMAL LIGHTING IS OFF. EXTERIOR EMERGENCY LIGHTS SHALL BE WIRED SUCH THAT PHOTOCELL AND/OR TIME CLOCK OPERATION DOES NOT DISCONNECT POWER TO BATTERIES. EMERGENCY UNIT EQUIPMENT AND BATTERIES SHALL BE UL924 LISTED FOR 90 MINUTES. BATTERIES SHALL BE TESTED PER NEC 700.12(A).
- OCCUPANCY SENSORS IN RESTROOMS, CORRIDORS AND OPEN OFFICE AREAS SHALL BE ULTRASONIC ONLY. SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. ULTRASONIC SENSORS SHALL NOT BE LOCATED CLOSER THAN 4 FEET FROM AIR SUPPLY/RETURN REGISTERS. VERIFY ALL COVERAGE AREAS OF SENSORS AS THEY VARY BETWEEN MANUFACTURERS. NO SENSOR SHALL BE INSTALLED MORE THAN 12 FEET A.F.F., UNLESS NOTED OTHERWISE OR ALLOWED BY MANUFACTURER'S RECOMMENDATIONS. ALL REQUIRED POWER PACKS AND OTHER ACCESSORIES SHALL BE PROVIDED FOR A COMPLETE OPERATIONAL SYSTEM. INSTALL CONTROL DEVICES/POWER PACKS IN ACCESSIBLE J-BOX. OCCUPANCY SENSOR DEVICES INDICATED ON THE PLANS SHOW THE INTENT FOR LIGHTING CONTROL AND MINIMUM DEVICE REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OCCUPANCY SENSOR MANUFACTURER TO DETERMINE PROPER TECHNOLOGY AND PLACEMENT OF THE SENSORS. ADDITIONAL SENSOR DEVICES MAY BE REQUIRED BEYOND THOSE SHOWN ON THE PLANS TO PROVIDE COMPLETE COVERAGE OF THE SPACE, WHICH SHALL BE PROVIDED AT NO COST TO THE OWNER.
- RECEPTACLES SHALL BE SPECIFICATION GRADE, 20 AMP, 120V, AND MOUNTED VERTICALLY UNLESS NOTED OTHERWISE.
- RECEPTACLES WITHIN 6 FT. OF THE EDGE OF SINKS & LAVATORIES SHALL BE GROUND FAULT CIRCUIT-INTERRUPTING. ALL KITCHEN RECEPTACLES, INDOOR WET LOCATIONS, LOCKER ROOMS WITH SHOWERS, GARAGES, SERVICE BAYS AND THOSE RECEPTACLES FEEDING VENDING MACHINES AND WATER COOLERS SHALL BE PROVIDED WITH GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION.
- RECEPTACLES INSTALLED OUTSIDE OR IN WET LOCATIONS SHALL BE LISTED AS WEATHER-RESISTANT TYPE AND HAVE GROUND FAULT CIRCUIT-INTERRUPTER PROTECTION. PROVIDE WITH "N USE", CAST ALUMINUM WEATHERPROOF COVERS IDENTIFIED AS "EXTRA DUTY" PER NEC 406.9(B).
- THOROUGHLY REVIEW AND COORDINATE ALL CASEWORK AND CABINET DRAWINGS AND ARCHITECTURAL ELEVATIONS FOR DEVICE LOCATIONS PRIOR TO ROUGH-IN OF OUTLETS. COORDINATE WITH OWNER FOR SIGN-OFF OF JUNCTION BOX ROUGH-IN FOR RECEPTACLES AND DATA OUTLETS. SHEETROCK SHALL NOT BE INSTALLED BEFORE OWNER SIGN-OFF IS COMPLETED.
- OBTAIN CUT SHEETS, INSTALLATION DATA, AND ROUGH-IN REQUIREMENTS FOR OWNER FURNISHED, CONTRACTOR INSTALLED EQUIPMENT. COORDINATE ROUGH-IN AND POWER REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE PRIOR TO STARTING ANY ASSOCIATED WORK.
- WALL SWITCHES SHALL BE SINGLE POLE, 20 AMP, 120/277V.
- PROVIDE STANDARD SIZE WALL PLATES FOR ALL DEVICES AND BLANK WALL PLATES FOR JUNCTION BOXES. WALL PLATES SHALL BE HIGH IMPACT, SMOOTH NYLON, COLOR TO MATCH DEVICE.
- MEMBRANE PENETRATIONS OF MAXIMUM 2-HOUR FIRE-RESISTANCE RATED WALLS AND PARTITIONS BY STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA, INSTALLED ON OPPOSITE SIDES OF THE WALL OR PARTITION SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24" OR PROTECTED WITH LISTED PUTTY PADS. THE ANNULAR SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED 1/8". THE USE OF LISTED ELECTRICAL BOXES WHICH HAVE BEEN TESTED FOR USE IN FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE INSTALLED PER MANUFACTURES INSTRUCTIONS.
- FIRE ALARM PANEL BREAKER: PER NFPA 72 - 10.5.5.2.1, THE LOCATION OF THE DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED ON THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE SUCH AS "FIRE ALARM CIRCUIT" OR "EMERGENCY COMMUNICATIONS" PER 10.5.5.2.2. THE DISCONNECT SHALL HAVE A RED MARKING AND PROVIDED WITH A LISTED BREAKER LOCKING DEVICE PER 10.5.5.2.3. MARKING SHALL NOT OBSCURE MANUFACTURES MARKINGS.
- CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 408.2.5.2 INCLUDING EQUIPMENT BASIC SUBMITTAL DATA, CONTROL INFORMATION, MANUFACTURER'S OPERATING AND MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.
- ALL ELECTRICAL COMPONENTS AND FIXTURES SHALL BE CLEANED & POLISHED. PAINTED SURFACES SHALL BE TOUCHED UP TO MATCH FACTORY APPLIED FINISHES.
- GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

GENERAL NOTES:

1. PROVIDE SLEEPING AREAS WITH UL 268 LISTED SMOKE/CARBON MONOXIDE DETECTORS CONNECTED TO THE FACP. UNITS SHALL BE PROVIDED WITH LOW FREQUENCY SOUNDER BASES TO COMPLY WITH NC FIRE CODE 907.5.2. ACTIVATION OF A SMOKE DETECTOR IN A SLEEPING UNIT SHALL NOT ACTIVATE ALARM NOTIFICATION APPLIANCES OUTSIDE OF THE SLEEPING UNIT, PROVIDED A SUPERVISOR SIGNAL IS GENERATED AND MONITORED IN ACCORDANCE WITH 907.6.6.
2. AUDIBLE APPLIANCES IN THE SLEEPING AREAS SHALL PRODUCE A DISTINCTIVE LOW FREQUENCY ALARM SIGNAL (T4) FOR THE CO DETECTION SEPARATE FROM THE FIRE ALARM SIGNALS.
3. COORDINATE WITH ERCES (EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM) TESTING TO CONFIRM IF SYSTEM IS REQUIRED. AT THIS TIME IT IS UNKNOWN IF ERCES SYSTEM WILL BE INSTALLED.



1 FIRE ALARM DEVICE PLAN - FIRST FLOOR
SCALE: 1/8" = 1'-0"



2 FIRE ALARM DEVICE PLAN - MEZANINE (BASE BID)
SCALE: 1/8" = 1'-0"

FIRE RATING LEGEND
1 - HR FIRE BARRIER
0.5 - HR FIRE PARTITION

MAYSVILLE FIRE STATION

603 4TH STREET
MAYSVILLE, NC 28555



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PROJECT NO. 224010 PROJECT MGR. D. HAM
DRAWN BY B. TRENT



REVISIONS:

| DESC: | DATE

DRAWN BY: DEH

PROJECT #: 24008

ISSUE DATE: 04/30/2025

PHASE:

CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

FIRE ALARM PLANS

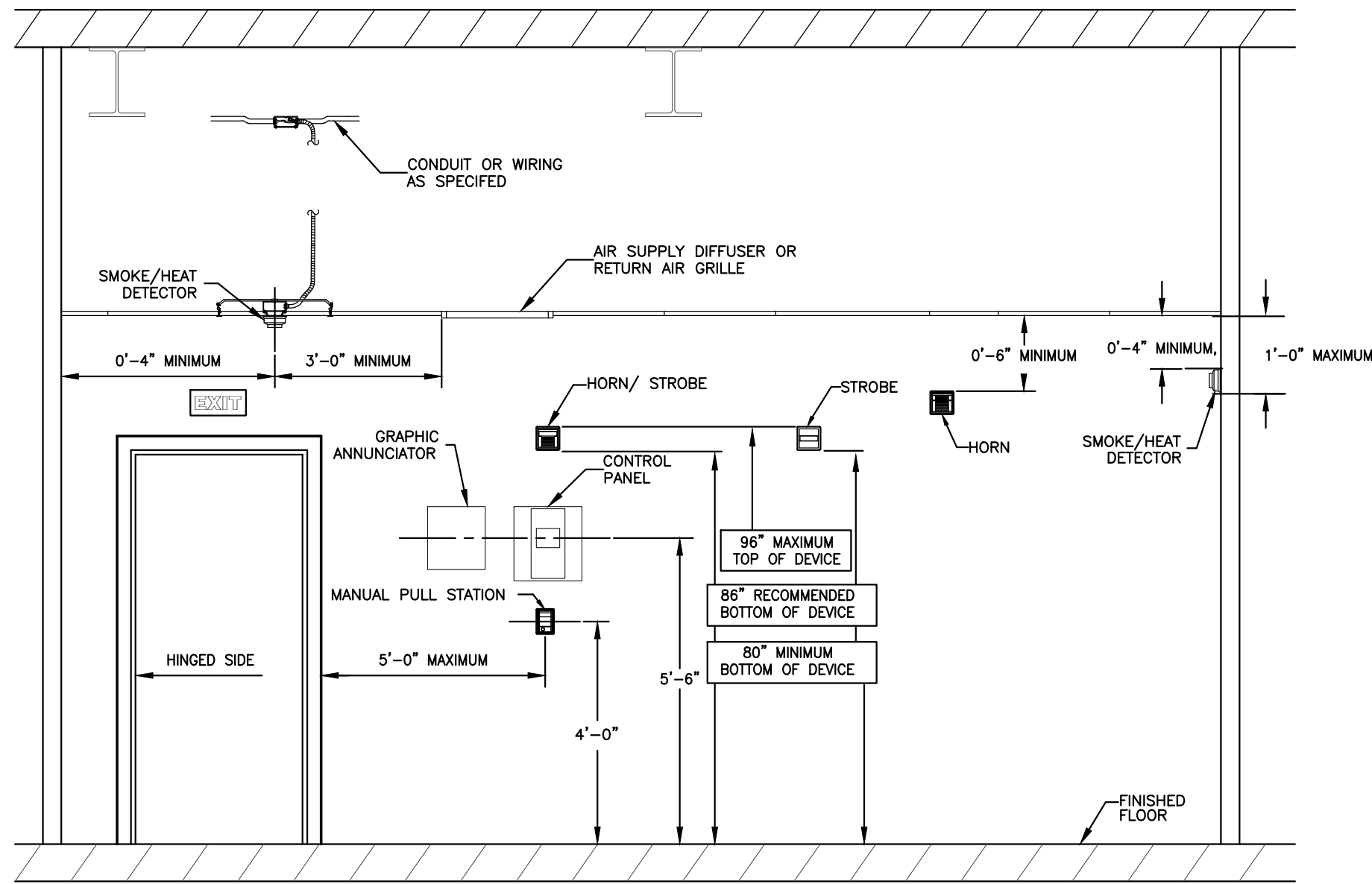
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FIRE ALARM NOTES:

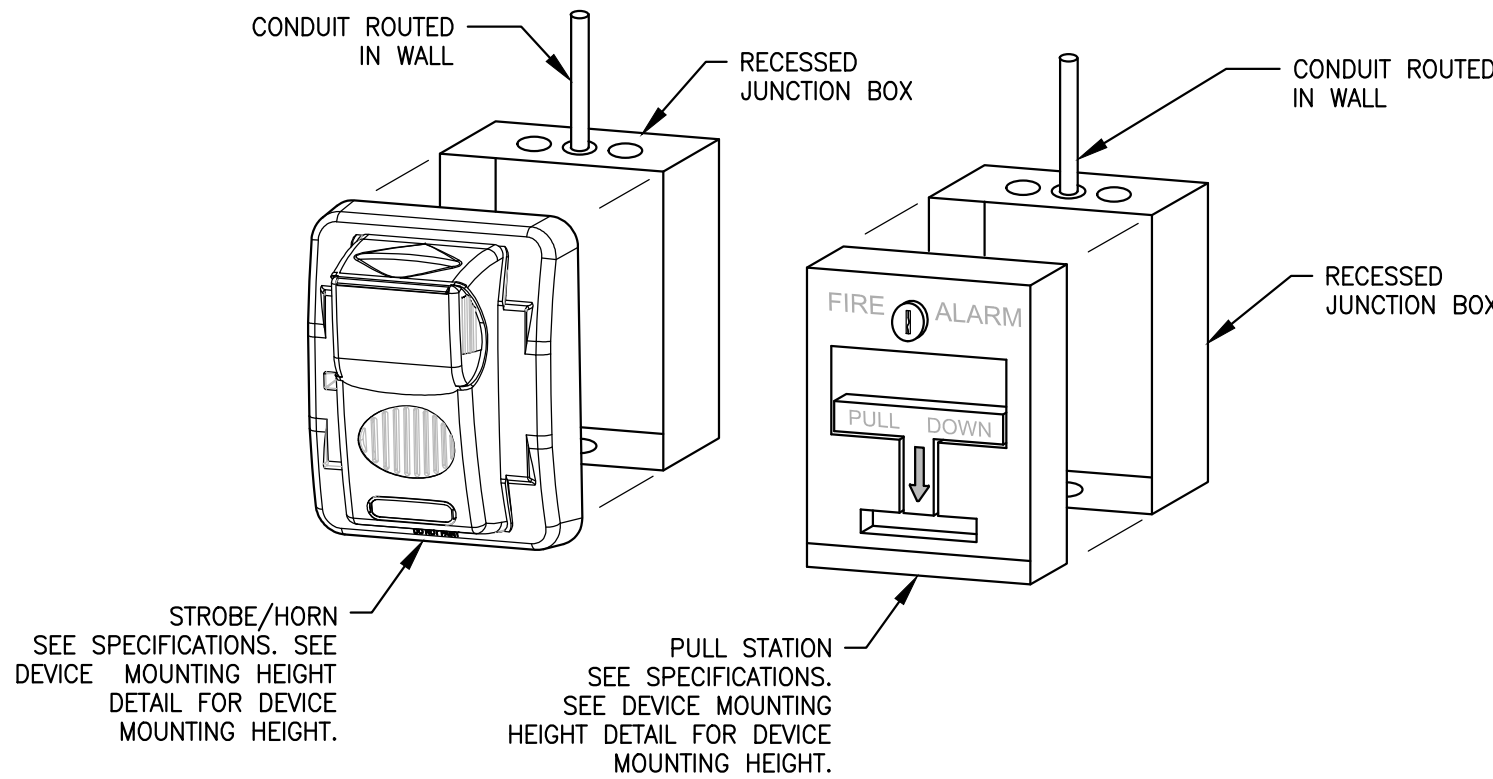
1. SIMPLEX SYSTEMS WILL NOT BE ACCEPTED PER REQUEST OF OWNER. SYSTEM SHALL BE OPEN SOURCE SUCH AS PROVIDED BY FIRELITE, NOTIFIER, SILENT KNIGHT, OR EQUAL.
2. FIRE ALARM PLANS ARE INTENDED TO PROVIDE INFORMATION FOR INSTALLATION OF A COMPLETE SYSTEM. PROVIDE ALL ESSENTIAL LABOR, MATERIALS & DEVICES REQUIRED TO PRODUCE A QUALITY END PRODUCT.
3. FIRE ALARM CONTRACTOR SHALL REVIEW & BECOME FAMILIAR WITH THE WORK OF ALL TRADES FOR PURPOSES OF COORDINATION AND ROUTING. CONTRACTOR SHALL PROVIDE REQUIRED PLANNING, COORDINATION AND SEQUENCING OF FIRE ALARM INSTALLATION WITH BUILDING COMPONENTS AND OTHER TRADES.
4. ALL WORK SHALL COMPLY WITH THE LOCAL FIRE CODE, THE 2017 NATIONAL ELECTRICAL CODE (NEC) AND 2013 NFPA 72. WORKMANSHIP SHALL MEET OR EXCEED INDUSTRY STANDARDS.
5. PROTECT ALL NEW MATERIALS FROM THE WEATHER IN STORAGE TRAILERS OR PROVIDE SUITABLE COVERING.
6. FIRE ALARM CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS VERIFYING THAT SECONDARY SUPPLY HAS SUFFICIENT CAPACITY TO OPERATE FOR 24 HOURS WHEN SYSTEM IS FUNCTIONING IN A NON-ALARM CONDITION. AT THE END OF THAT PERIOD, THE SECONDARY SUPPLY SHALL BE CAPABLE OF OPERATING IN ALARM MODE FOR 5 MINUTES. FIRE ALARM INSTALLER SHALL CERTIFY CALCULATED CAPACITY TO DRIVE THE SYSTEM PER NFPA 72 ON FORM FOR RECORD OF COMPLETION.
7. FIRE ALARM CONTRACTOR SHALL PROVIDE A DETAILED RISER DIAGRAM SHOWING EACH DEVICE & SYSTEM FUNCTION.
8. PLAN SYMBOL COLORING SHALL BE AS FOLLOWS: MANUAL FIRE ALARM PULL STATIONS – RED, WATER FLOW SWITCHES – DARK BLUE, SMOKE DETECTORS – PINK, DUCT DETECTORS – PURPLE, HEAT DETECTORS – ORANGE, BEAM SMOKE DETECTORS – BROWN, FACP AND REMOTE ANNUNCIATORS – RED, TAMPER SWITCHES & PRESSURE SWITCHES – CYAN, FIRE DAMPERS – YELLOW.
9. ALL WIRING, DEVICES AND OTHER LIKE MATERIALS SHALL BE UL LISTED & LABELED.
10. PER NFPA 72 – 10.6.5.2.1, THE LOCATION OF THE DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED ON THE CONTROL UNIT. SYSTEM CIRCUIT DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AS TO ITS PURPOSE SUCH AS "FIRE ALARM CIRCUIT" OR "EMERGENCY COMMUNICATIONS" PER 10.6.5.2.2. THE DISCONNECT SHALL HAVE A RED MARKING AND PROVIDED WITH A LISTED BREAKER LOCKING DEVICE PER 10.6.5.2.3. MARKING SHALL NOT OBSCURE MANUFACTURES MARKINGS.
11. MOUNT SPRINKLER VALVE SUPERVISORY SWITCH SQ AS NOT TO INTERFERE WITH THE NORMAL OPERATION OF THE VALVE AND ADJUST TO OPERATE WITHIN TWO REVOLUTIONS TOWARD THE CLOSED POSITION OF THE VALVE CONTROL, OR WHEN THE STEM HAS MOVED NO MORE THAN ONE-FIFTH THE DISTANCE FROM ITS NORMAL POSITION PER NFPA 72, SECTION 17.16.1.2.
12. SPRINKLER SUPERVISORY MONITORING OF FLOW SWITCHES, TAMPER SWITCHES, AND SIMILAR FUNCTIONS SHALL BE ACCOMPLISHED WITH A SEPARATE SYSTEM ADDRESS FOR EACH ACTIVITY MONITORED
13. COMBINATION SMOKE/CO2 DETECTORS WITHIN SLEEPING AREAS SHALL BE UL
14. CONDUIT SHALL BE RED EMT WITH COMPRESSION TYPE FITTINGS WHERE EXPOSED OR AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. IMC OR RGS SHALL BE USED IN ANY OUTDOOR LOCATION.
15. FIRE ALARM CONTRACTOR SHALL PROVIDE A PROJECT SPECIFIC RISER DIAGRAM WITH DEVICE ADDRESSES AT ANNUNCIATOR AND MAIN FACP LOCATIONS. PROVIDE FRAMED OPERATING INSTRUCTIONS AT MAIN FACP. INSTALL FRAMED INSTRUCTIONS IN A LOCATION VISIBLE FROM FIRE-ALARM CONTROL UNIT. PROVIDE FLOOR PLANS WITH DEVICE NUMBERS WITH A SEPARATE SHEET PROVIDED FOR EACH FLOOR. PLANS SHALL BE REDUCED IN SIZE FROM ENGINEERING PLANS IN ORDER TO FIT ON 11 X 14 SHEETS PER FLOOR. ALL DEVICE ADDRESSES SHALL BE CLEARLY LABELED ON PLANS. INDICATE LOCATIONS OF ALL CABINETS, MODULES AND END OF LINE DEVICES. SHEETS SHALL BE LAMINATED. PROVIDE LEGEND FOR SYMBOLS. PLANS SHALL INCLUDE THE FOLLOWING: NAME OF BUILDING OR BUSINESS, ADDRESS OF BUILDING OR BUSINESS, NORTH ARROW, FIRE ALARM SYMBOL LEGEND, AND DATE WHEN PLANS WERE INSTALLED.
16. THE TECHNICIANS WHO MAKE CONNECTIONS TO (OR PERFORM ANY PROGRAMMING FOR) THE FIRE ALARM SYSTEM ARE REQUIRED TO BE TRAINED AND INDIVIDUALLY CERTIFIED BY THE MANUFACTURER, FOR THE CONTROL PANEL MODEL & SERIES BEING INSTALLED. THIS TRAINING AND CERTIFICATION MUST HAVE OCCURRED WITHIN THE MOST RECENT 24 MONTHS.
17. UL LISTED DUCT SMOKE DETECTORS & REMOTE ALARM INDICATOR LIGHT (RAIL) SWITCHES SHALL BE FURNISHED & WIRED BY THE FIRE ALARM CONTRACTOR AND DUCT SMOKE DETECTORS INSTALLED BY THE M.C.. RAIL SWITCHES SHALL BE REQUIRED WHERE DETECTORS ARE NOT READILY ACCESSIBLE. FIRE ALARM AHU SHUT DOWN CIRCUITS SHALL BE WIRED FROM THE FACP TO A TERMINATION POINT, ADJACENT TO THE FACP BY THE FIRE ALARM CONTRACTOR. AHU CONTROL WIRING FROM THE TERMINATION POINT TO THE EQUIPMENT SHALL BE BY THE M.C.. THE FIRE ALARM CONTRACTOR SHALL TEST ALL SMOKE DETECTORS.
18. CONTRACTOR SHALL PROVIDE BUILDING OWNER WITH A COMPLETE OPERATING & MAINTENANCE MANUAL AS REQUIRED BY THE NC ENERGY CODE 408.2.5.2 INCLUDING EQUIPMENT BASIC SUBMITTAL DATA, CONTROL INFORMATION, MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUAL FOR EACH PIECE OF EQUIPMENT, ROUTINE MAINTENANCE ACTIONS AND SERVICE AGENCIES NAME, PHONE NUMBER & ADDRESS.
19. AT THE CONCLUSION OF THIS PROJECT, THE FIRE ALARM SYSTEM WILL BE TESTED AND CERTIFIED IN ACCORDANCE WITH THE 2013 EDITION OF NFPA 72.
20. GUARANTEE ALL EQUIPMENT, MATERIALS AND INSTALLATION FREE OF DEFECTS FOR A PERIOD OF 1-YEAR AFTER RECEIVING CERTIFICATE OF OCCUPANCY.

CODE DATA SUMMARY SHEET
FOR FIRE ALARM

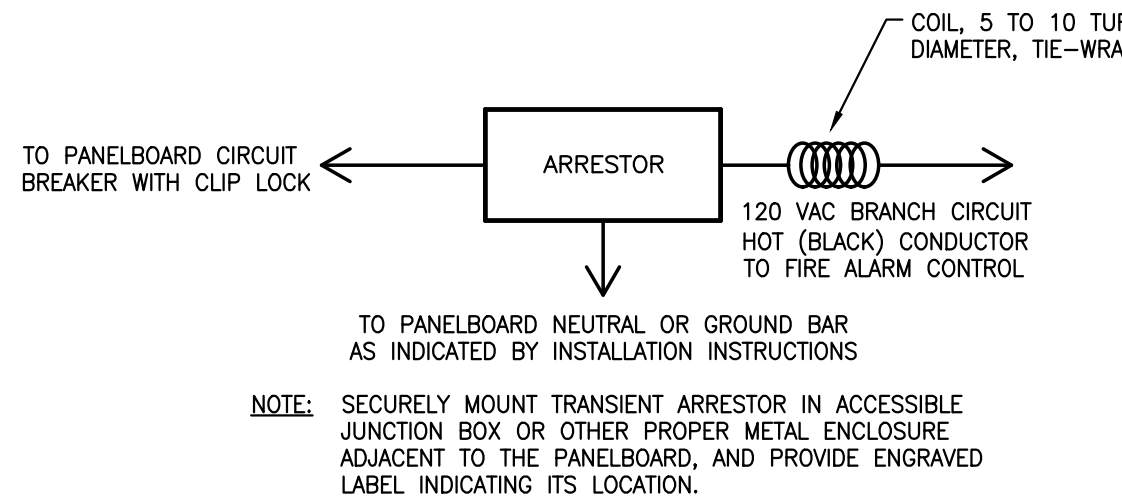
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SECONDARY POWER REQUIREMENTS:				
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REMOTE:	<input checked="" type="checkbox"/> 5 MINUTE ALARM/24 HOUR STANDBY			
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SHAFT PRESSURIZATION:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> N/A		
DUCT DETECTOR:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> N/A		
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HOOD SYSTEMS:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> N/A		
PRE-ACTION:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> N/A		
SPRAY BOOTH:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> N/A		
OTHER:	-			



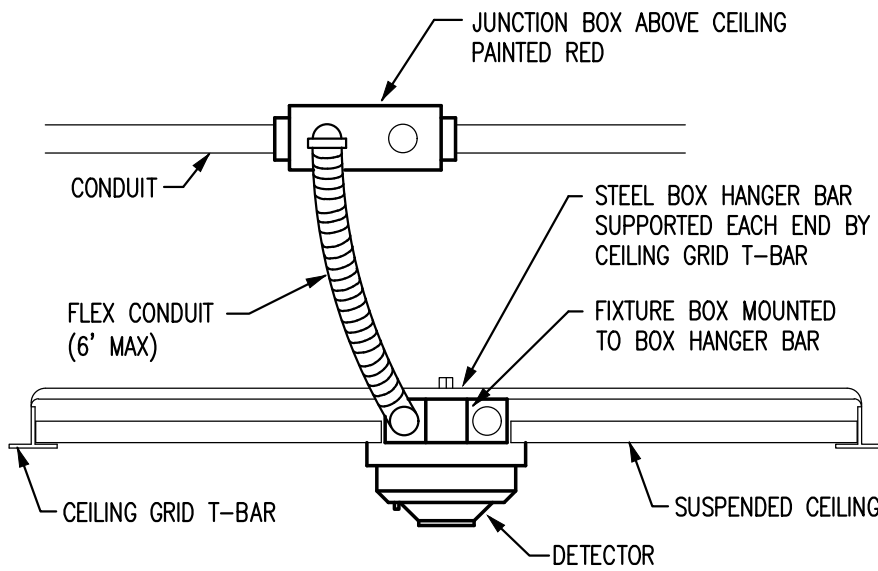
2 FIRE ALARM DEVICE MOUNTING HEIGHTS
SCALE: N.T.S.



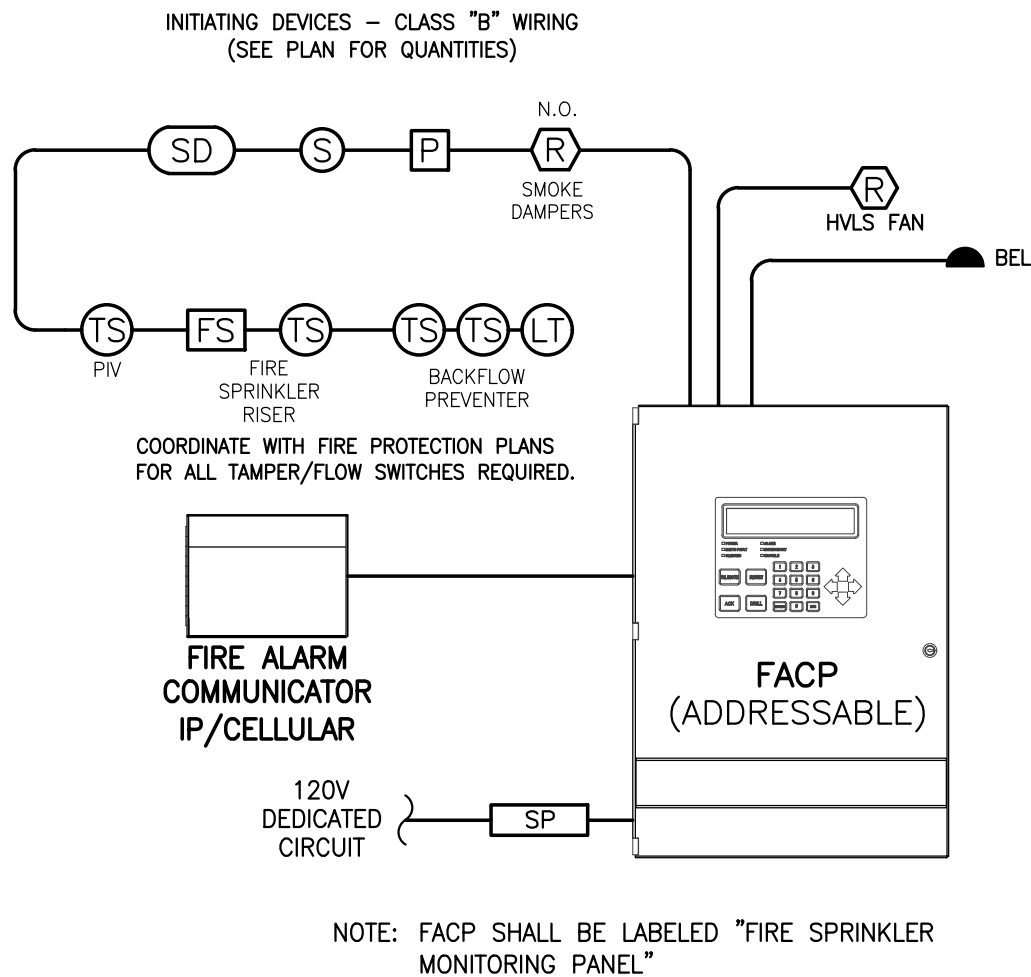
3 FIRE ALARM DEVICE MOUNTING DETAIL
SCALE: N.T.S.



4 TRANSIENT ARRESTOR DETAIL
SCALE: N.T.S.



5 TYPICAL CEILING MOUNTED SMOKE DETECTOR DETAIL
SCALE: N.T.S.

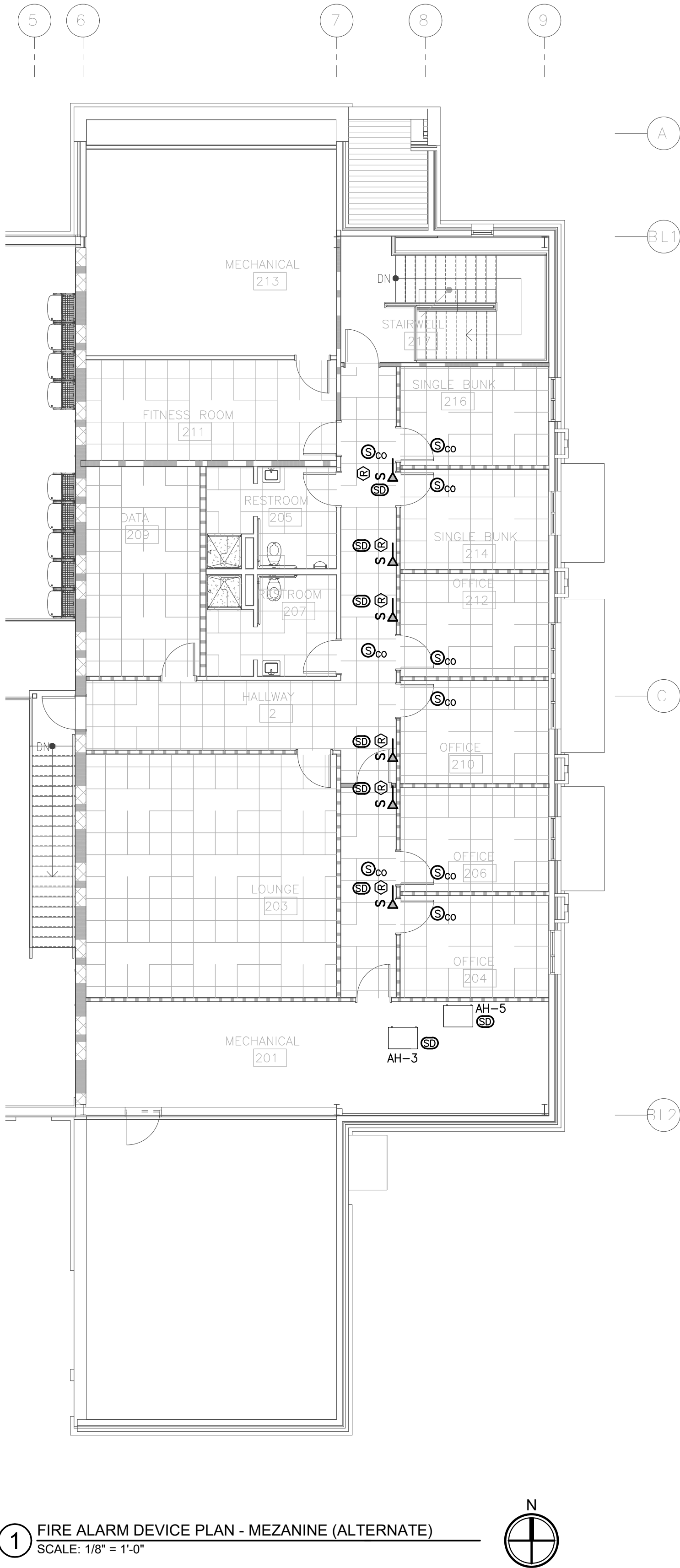


6 FIRE SPRINKLER MONITORING RISER
SCALE: N.T.S.



- NOTES:
1. PHENOLIC LABEL, 4" WIDE X 3" IN HEIGHT, SUPPLIED BY THE ELECTRICAL CONTRACTOR, RED IN COLOR WITH WHITE LETTERING (1/2" HIGH).
 2. INSERT PANEL DESIGNATION AT "X" LOCATION. AND BLACK LETTERING (1/4" HIGH).
 3. INSERT CIRCUIT DESIGNATION AT "XX" LOCATION. AND BLACK LETTERING (1/4" HIGH).

7 FIRE SPRINKLER MONITORING PANEL LABEL DETAIL
SCALE: N.T.S.



1 FIRE ALARM DEVICE PLAN - MEZANINE (ALTERNATE)
SCALE: 1/8" = 1'-0"

FIRE RATING LEGEND

1 - HR FIRE BARRIER

0.5 - HR FIRE PARTITION



114 E. 3rd STREET, GREENVILLE, NC 27858
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MAYSVILLE FIRE STATION

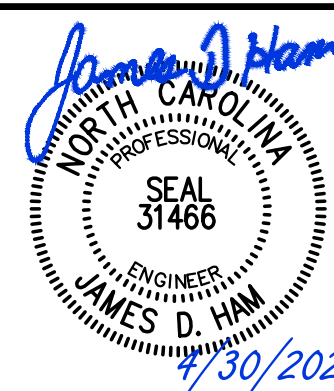
603 4TH STREET

MAYSVILLE, NC 28555



P.O. BOX 11527 NC LIC #: C-1132
GOLDSBORO, NC 27532
TEL: (919) 778-9064

PROJECT NO. 224010 PROJECT MGR. D. HAM DRAWN BY B. TRENT



REVISIONS:

#	DESC.	DATE
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DRAWN BY: DEH
PROJECT #: 24008
ISSUE DATE: 04/30/2025

PHASE:
CONSTRUCTION DOCUMENTS

SHEET NAME & NUMBER

FIRE ALARM DETAILS

FA2.01



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SHEET NAME & NUMBER

FIRE ALARM NOTES

FA3.01

SPRINKLER MONITORING SPECIFICATIONS:

PART 1 – GENERAL

1.1 SUMMARY

- A. PROVIDE A COMPLETE AND FUNCTIONAL SPRINKLER MONITORING SYSTEM INCLUDING BUT NOT LIMITED TO, MAIN FIRE ALARM PANEL, MANUAL STATIONS, DETECTORS, SIGNAL EQUIPMENT, CONTROLS, DEVICES, FIRE SPRINKLER INTERFACE DEVICES, WIRING, CONDUIT, SERVICE COMPONENTS AND DATA.

1.2 DEFINITIONS

- A. FACP: FIRE ALARM CONTROL PANEL.
B. LED: LIGHT-EMITTING DIODE.
C. DEFINITIONS IN NFPA 72 APPLY TO FIRE ALARM TERMS.

1.3 SYSTEM DESCRIPTION

- A. GENERAL: NON-CODED, ADDRESSABLE SYSTEM WITH MANUAL & AUTOMATIC ALARM INDICATION; AND HARD-WIRED FOR SIGNAL TRANSMISSION, USING SEPARATE INDIVIDUAL CIRCUITS FOR EACH ZONE OF ALARM INITIATION & NOTIFICATION APPLIANCES.

PART 2 – PRODUCTS

2.1 FUNCTIONAL SYSTEM DESCRIPTION

- A. CONTROL OF SYSTEM: BY SPRINKLER MONITORING SYSTEM (FACP).
B. ALL EQUIPMENT SHALL BE UL LISTED. FACP SHALL BE UL 862 9th ED. LISTED.
C. SYSTEM SUPERVISION: AUTOMATICALLY DETECT AND REPORT OPEN CIRCUITS, SHORTS, AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION APPLIANCE CIRCUITS.
D. PRIORITY OF SIGNALS: AUTOMATIC ALARM RESPONSE FUNCTIONS RESULTING FROM AN ALARM SIGNAL FROM ONE ZONE OR DEVICE ARE NOT ALTERED BY SUBSEQUENT ALARM, SUPERVISORY, OR TROUBLE SIGNALS. AN ALARM SIGNAL IS THE HIGHEST PRIORITY, SUPERVISORY AND TROUBLE SIGNALS HAVE SECOND AND THIRD LEVEL PRIORITY. HIGHER PRIORITY SIGNALS TAKE PRECEDENCE OVER SIGNALS OF LOWER PRIORITY, EVEN WHEN THE LOWER PRIORITY CONDITION OCCURS FIRST. ANNUNCIATE AND DISPLAY ALL ALARM, SUPERVISORY, AND TROUBLE SIGNALS REGARDLESS OF PRIORITY OF ORDER RECEIVED.
E. NONINTERFERENCE: A SIGNAL ON ONE ZONE SHALL NOT PREVENT THE RECEIPT OF SIGNALS FROM OTHER ZONES.
F. SYSTEM RESET: ALL ZONES ARE MANUALLY RESET FROM THE FACP AFTER INITIATING DEVICES ARE RESTORED TO NORMAL.
G. TRANSMISSION TO REMOTE ALARM RECEIVING STATION: AUTOMATICALLY ROUTE ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION BY MEANS OF A CELLULAR NETWORK PER NFPA 72 SECTION 26.3.
H. SYSTEM ALARM CAPABILITY DURING CIRCUIT FAULT CONDITIONS: SYSTEM WIRING AND CIRCUIT ARRANGEMENT PREVENT ALARM CAPABILITY REDUCTION WHEN AND OPEN CIRCUIT, GROUND OR WIRE TO WIRE SHORT OCCURS, OF AND OPEN CIRCUIT AND A GROUND OCCUR AT THE SAME TIME IN AN INITIATING DEVICE CIRCUIT, SIGNAL LINE CIRCUIT, OR NOTIFICATION APPLIANCE CIRCUIT.
I. LOSS OF PRIMARY POWER AND THE FACP INITIATES A TROUBLE SIGNAL AT THE FACP. AN EMERGENCY POWER LIGHT IS ILLUMINATED AT BOTH LOCATIONS WHEN THE SYSTEM IS OPERATING ON THE SECONDARY POWER SUPPLY.
K. ALARM SILENCING, SYSTEM RESET & INDICATION: CONTROLLED BY SWITCHES AT THE FACP.
L. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:

1. OPEN CIRCUITS, SHORTS AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION-APPLIANCE CIRCUITS.
2. OPENING, TAMPERING, OR REMOVAL OF ALARM INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES.
3. LOSS OF PRIMARY POWER AT THE FACP.
4. GROUND OR A SINGLE BREAK IN FACP INTERNAL CIRCUITS.
5. ABNORMAL AC VOLTAGE AT THE FACP.
6. A BREAK IN STAND-BY BATTERY CIRCUITRY.
7. FAILURE OF BATTERY CHARGING.
8. ABNORMAL POSITION OF ANY SWITCH AT THE FACP.
9. LOW-AIR-PRESSURE SWITCH OPERATION ON A DRY-PIPE OR PREACTION SPRINKLER SYSTEM.

M. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS:

1. RING TROUBLE BELL AND ANNUNCIATE AT THE FACP.
2. RECORD THE EVENT ON THE SYSTEM PRINTER.
3. TRANSMISSION OF TROUBLE SIGNAL TO REMOTE ALARM RECEIVING STATION.

N. PRIMARY POWER

1. CONNECTION TO THE LIGHT AND POWER SERVICE SHALL BE ON A DEDICATED BRANCH CIRCUIT. CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL". THE LOCATION OF CIRCUITING DISCONNECTING MEANS SHALL BE PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
2. INSTALL SURGE PROTECTION ON NORMAL AC POWER FOR THE FACP. PROVIDE SURGE PROTECTORS RECOMMENDED BY FACP MANUFACTURER.

O. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:

1. OPEN CIRCUITS, SHORTS AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION-APPLIANCE CIRCUITS.
2. OPENING, TAMPERING, OR REMOVAL OF ALARM INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES.
3. LOSS OF PRIMARY POWER AT THE FACP.
4. GROUND OR A SINGLE BREAK IN FACP INTERNAL CIRCUITS.
5. ABNORMAL AC VOLTAGE AT THE FACP.
6. A BREAK IN STAND-BY BATTERY CIRCUITRY.
7. FAILURE OF BATTERY CHARGING.
8. ABNORMAL POSITION OF ANY SWITCH AT THE FACP.
9. FIRE-PUMP POWER FAILURE, INCLUDING A DEAD PHASE OR PHASE-REVERSAL CONDITION.

P. SECONDARY (STAND-BY) POWER

1. THE SECONDARY SUPPLY SHALL AUTOMATICALLY SUPPLY THE ENERGY TO THE SYSTEM WITHIN 30 SECONDS.
2. THE SECONDARY SUPPLY SHALL HAVE SUFFICIENT CAPACITY TO OPERATE FOR 24 HOURS WHEN SYSTEM IS FUNCTIONING IN A NON-ALARM CONDITION. AT THE END OF THAT PERIOD, THE SECONDARY SUPPLY SHALL BE CAPABLE OF OPERATING IN ALARM MODE FOR 5 MINUTES.
3. FIRE ALARM SYSTEM INSTALLER SHALL CERTIFY CALCULATED CAPACITY TO DRIVE THE SYSTEM PER NFPA 72 ON FORM FOR RECORD OF COMPLETION.

Q. SHOP DRAWINGS:

1. SHOP DRAWINGS SHALL BE PREPARED BY PERSONS WITH THE FOLLOWING QUALIFICATIONS:
 - 1.A. TRAINED AND CERTIFIED BY MANUFACTURER IN FIRE ALARM SYSTEM DESIGN.
 - 1.B. FIRE ALARM CERTIFIED BY NICET, MINIMUM LEVEL III.
2. SYSTEM OPERATION DESCRIPTION: DETAILED DESCRIPTION FOR THIS PROJECT, INCLUDING METHOD OF OPERATION AND SUPERVISION OF EACH TYPE OF CIRCUIT AND SEQUENCE OF OPERATIONS FOR MANUALLY AND AUTOMATICALLY INITIATED SYSTEM INPUTS AND OUTPUTS. MANUFACTURER'S STANDARD DESCRIPTION FOR GENERIC SYSTEMS ARE NOT ACCEPTABLE.
3. DEVICE ADDRESS LIST: COORDINATE WITH FINAL SYSTEM PROGRAMMING.
4. SYSTEM RISER DIAGRAM WITH DEVICE ADDRESSES, CONDUIT SIZES, AND CABLE AND WIRE TYPES AND SIZES.
5. WIRING DIAGRAMS: POWER, SIGNAL, AND CONDUIT WIRING. INCLUDE DIAGRAMS FOR EQUIPMENT AND FOR SYSTEM WITH ALL TERMINALS AND INTERCONNECTIONS IDENTIFIED. SHOW WIRING COLOR CODE.
6. BATTERIES: SIZE CALCULATIONS.

2.2 MANUAL PULL STATIONS

- A. DESCRIPTION: FABRICATED OF METAL OR PLASTIC AND FINISHED IN RED WITH MOLDED, RAISED LETTER OPERATING INSTRUCTIONS OF CONTRASTING COLOR.

2.3 SMOKE DETECTORS

- A. GENERAL: SHALL INCLUDE THE FOLLOWING FEATURES.
1. OPERATING VOLTAGE: 24 VDC, NOMINAL.
 2. SELF-RESTORING: DETECTORS DO NOT REQUIRE RESETING OR READJUSTMENT AFTER ACTUATION TO RESTORE THEM TO NORMAL OPERATION.
 3. PLUG-IN ARRANGEMENT: DETECTOR AND ASSOCIATED ELECTRONIC COMPONENTS ARE MOUNTED IN A MODULE THAT CONNECTS IN A TAMPER-RESISTANT MANNER TO A FIXED BASE WITH A TWIST-LOCKING PLUG CONNECTION. SCREW TERMINALS ARE LOCATED IN THE FIXED BASE FOR SYSTEM CONNECTIONS.
 4. INTEGRAL VISUAL INDICATING LIGHT: LED BLINKS WHEN UNIT IS ADDRESSED AND LATCHES ON ALARM.
- B. PHOTO ELECTRIC DETECTOR: INCLUDE THE FOLLOWING FEATURES:
1. SELF-COMPENSATING FOR VARIATIONS IN ENVIRONMENTAL CONDITIONS.
 2. MAINTENANCE ALERT WARNING WHEN SMOKE DETECTOR DUST ACCUMULATION IS EXCESSIVE AND WHEN SENSITIVITY IS OUTSIDE ITS LISTED SENSITIVITY RANGE.
 3. DETECTOR SENSITIVITY TEST CAPABILITY AT THE FACP (NFPA 72)
- C. DUCT SMOKE DETECTOR: PHOTO ELECTRIC TYPE
1. SAMPLING TUBE: DESIGN AND DIMENSIONS AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIC DUCT SIZE, AIR VELOCITY AND INSTALLATION CONDITIONS WHERE APPLIED. SAMPLING TUBE SHALL EXTEND THE FULL WIDTH OF THE DUCT. ANY TUBES EXCEEDING 36 INCHES SHALL PROTRUDE THROUGH THE FAR END AND ANY TUBES EXCEEDING FIVE FEET SHALL BE SUPPORTED IN THE MIDDLE.

2.4 SURGE ARRESTORS

- A. THE FOLLOWING PROTECTION AGAINST VOLTAGE TRANSIENTS AND SURGES MUST BE PROVIDED BY THE FIRE ALARM EQUIPMENT SUPPLIER, AND INSTALLED BY THE ELECTRICAL CONTRACTOR:
1. ON AC INPUT: A FEED-THROUGH (NOT A SHUNT-TYPE) BRANCH CIRCUIT TRANSIENT ARRESTOR SUCH AS THE EFI HWM-120, LEVITON OEM-120EFT, NORTHERN TECHNOLOGIES TCS-HW, TRANSISTECTOR ACP100BWN3, OR ANY EQUIVALENT UL LISTED DEVICE SUBMITTED TO AND APPROVED BY THE ELECTRICAL DESIGN ENGINEER. INSTALL SUPPRESSOR IN A LISTED ENCLOSURE NEAR THE ELECTRICAL PANELBOARD, AND TRIM EXCESS LEAD LENGTHS. WIND SMALL COIL IN THE BRANCH CIRCUIT CONDUCTOR JUST DOWNSTREAM OF THE SUPPRESSOR CONNECTION. COIL SHALL BE 5 TO 10 TURNS, ABOUT 1" DIAMETER, AND SECURELY TIE-WRAPPED.
 2. ON DC CIRCUITS EXTENDING BEYOND BUILDING: PROVIDE ADJACENT TO FACP, AND ALSO NEAR POINT OF EXIT FROM MAIN BUILDING AND ENTRY TO OUTLYING BUILDING, PROVIDE "PI" TYPE FILTER ON EACH LEG CONSISTING OF A PRIMARY ARRESTOR, SERIES IMPEDANCE, AND A FAST ACTING SECONDARY ARRESTOR THAT CLAMPS AT 30-40VDC. ACCEPTABLE MODELS INCLUDE: INNOVATIVE TECHNOLOGY D2S33-2ML, SIMPLEX 2081-9027, DITEK DTKXLVL, OR LEVITON 3824-OWM. DEVICES USING ONLY MOV ACTIVE ELEMENTS ARE NOT ACCEPTABLE

2.5 WIRE

- A. NON-POWER-LIMITED CIRCUITS: SOLID COPPER CONDUCTORS WITH 600V RATED, 75 DEG C, COLOR CODED INSULATION PER NFPA 72
1. LOW VOLTAGE CIRCUITS: #16 AWG, MINIMUM.
 2. LINE VOLTAGE CIRCUITS: #12 AWG, MINIMUM.
- B. POWER-LIMITED CIRCUITS: NFPA 70, TYPES FPL, FPLR OR FPLP AS RECOMMENDED BY MANUFACTURER.

PART 3 – EXECUTION

3.1 EQUIPMENT INSTALLATION

- A. CONNECT THE FACP FROM A DEDICATED BREAKER WITH LOCKING PROVISIONS TO PREVENT ACCIDENTAL DE-ENERGIZING OF CIRCUIT.
- B. MANUAL PULL STATIONS: MOUNT SEMI FLUSH IN RECESSED BACK BOXES.
- C. CEILING MOUNTED SMOKE DETECTORS: NOT LESS THAN 4 INCHES FROM A SIDEWALL TO THE NEAR EDGE. FOR EXPOSED SOLID JOIST CONSTRUCTION, MOUNT DETECTORS ON THE BOTTOM OF JOISTS.
- D. SMOKE DETECTORS NEAR AIR REGISTERS: INSTALL NO CLOSER THAN 36 INCHES.
- E. DUCT SMOKE DETECTORS: COMPLY WITH MANUFACTURER WRITTEN INSTRUCTIONS.
1. VERIFY THAT EACH UNIT IS LISTED FOR THE COMPLETE RANGE OF AIR VELOCITY, TEMPERATURE AND HUMIDITY POSSIBLE WHEN AIR-HANDLING SYSTEM IS OPERATING.
- F. INSTALL SAMPLING TUBES SO THEY EXTEND THE ENTIRE LENGTH OF THE DUCT.
- G. FACP: FIRE ALARM CONTROL PANEL SHALL BE SURFACE MOUNTED WITH TOP OF CABINET NOT MORE THAN 72 INCHES FROM FINISHED FLOOR.
- H. TO MINIMIZE WIRING FAULT IMPACT, ISOLATION MODULES SHALL BE PROVIDED IN ALL THE LOCATIONS LISTED BELOW. IF CEILING HEIGHT ≤ 10 FEET, ISOLATOR BASE TYPE INITIATING DEVICES ARE PERMITTED TO BE USED TO SATISFY ANY OR ALL OF THE FOLLOWING:
1. IN OR IMMEDIATELY ADJACENT TO THE FACU, AT EACH END OF THE ADDRESSABLE LOOP. THESE TWO ISOLATORS MUST BE IN THE SAME ROOM AS THE FACU AND WITHIN 15 FEET.
 2. AFTER EACH 25 INITIATING DEVICES AND CONTROL POINTS ON THE ADDRESSABLE LOOP.
 3. FOR LOOPS WITH LESS THAN 25 DEVICES AND CONTROL POINTS, INSTALL AN ISOLATOR AT THE APPROXIMATE MIDDLE OF THE LOOP.
 4. NEAR THE ADDRESSABLE CIRCUIT EXTENDS OUTSIDE THE BUILDING, EXCEPT FOR THSOE ATTACHED TO THE BUILDING EXTERIOR WALLS.

3.2 WIRING INSTALLATION

- A. WIRING METHOD: INSTALL NON-POWER-LIMITED WIRING IN METAL RACEWAY AND PER NFPA 72, LATEST EDITION. CONCEAL RACEWAY EXCEPT IN UNFINISHED SPACES AND AS INDICATED. INSTALL POWER-LIMITED WIRING IN METAL RACEWAY AS REQUIRED BY AUTHORITY HAVING LOCAL JURISDICTION, OTHERWISE PROVIDE PLENUM OR NON-PLENUM RATED CABLE AS REQUIRED BY CONDITIONS OF INSTALLATION, CONCEALED IN FINISHED SPACES.
- B. WIRING WITHIN ENCLOSURES: SEPARATE POWER LIMITED AND NON-POWER LIMITED CONDUCTORS AS RECOMMENDED BY THE MANUFACTURER. INSTALL CONDUCTORS PARALLEL WITH AND AT RIGHT ANGLES TO SIDES AND BACK OF ENCLOSURE, BUNDLE, LACE, AND TRAIL CONDUCTORS TO TERMINAL POINTS WITH NO EXCESS. CONNECT CONDUCTORS THAT ARE TERMINATED, SPICED OR INTERRUPTED IN ANY ENCLOSURE ASSOCIATED WITH THE FIRE ALARM SYSTEM TO TERMINAL BLOCKS. MARK EACH TERMINAL ACCORDING TO THE SYSTEMS WIRING DIAGRAMS. MAKE ALL CONNECTIONS WITH APPROVED CRIMP-ON TERMINAL SPADE LUGS, PRESSURE TYPE TERMINAL BLOCKS, OR PLUG CONNECTORS.
- C. CABLE TAPS: USE NUMBERED STRIPS IN JUNCTION, PULL AND OUTLET BOXES, CABINETS, OR EQUIPMENT ENCLOSURES WHERE CIRCUIT CONNECTIONS ARE MADE. CLASS "A" SIGNALING LINE CIRCUITS SHALL NOT CONTAIN "T-TAPS".
- D. THERE SHALL BE NO SPLICES IN THE SYSTEM OTHER THAN AT DEVICE TERMINAL BLOCKS, OR ON TERMINAL BLOCKS IN CABINETS. "WIRE NUTS" AND CRIMP SPLICES WILL NOT BE PERMITTED. PERMANENT WIRE MARKERS SHALL BE USED TO IDENTIFY ALL CONNECTIONS AT THE FACU AND OTHER CONTROL EQUIPMENT, AT POWER SUPPLIES, AND IN TERMINAL CABINETS.
- E. COLOR CODING: INITIATING CIRCUITS, GENERAL RED(+)/WHITE(-) INITIATING CIRCUITS, SMOKE ONLY VIOLET(+)/GRAY(-), ALARM INDICATING APPLIANCE CIRCUITS BLUE(+)/BLACK(-), AHU SHUTDOWN CIRCUITS YELLOW(+)/BROWN(-)

3.3 IDENTIFICATION

- A. IDENTIFY SYSTEM COMPONENTS, WIRING, CABLING AND TERMINALS ACCORDING TO REQUIREMENTS OF NFPA 72, LATEST EDITION.
- B. INSTALL INSTRUCTIONS, FRAMED, IN A LOCATION ADJACENT TO AND VISIBLE FROM THE FACP.
- C. PAINT POWER SUPPLIES DISCONNECT SWITCH OR BREAKER RED AND LABEL "FIRE ALARM".
- D. ALL JUNCTION BOX COVERS SHALL BE PAINTED RED.
- E. PROVIDE AN ENGRAVED LABEL AT EACH FIRE ALARM SYSTEM CONTROL UNIT, SYSTEM SUB-PANEL, SUPPLEMENTARY NOTIFICATION APPLIANCE PANEL, ETC., IDENTIFYING ITS 120VAC POWER SOURCE AS FOLLOWS: PANELBOARD LOCATION, PANELBOARD IDENTIFICATION, AND BRANCH CIRCUIT NUMBER.

3.4 GROUNDING

- A. GROUND CABLE SHIELDS AND EQUIPMENT ACCORDING TO SYSTEM MANUFACTURER'S WRITTEN INSTRUCTIONS TO ELIMINATE SHOCK HAZARD AND TO MINIMIZE, GROUND LOOPS, COMMON MODE RETURNS, NOISE TRANSMISSION, CROSS TALK AND OTHER IMPAIRMENTS. PROVIDE MAXIMUM 5- OHM GROUND AT FACP LOCATION. MEASURE RECORD AND REPORT GROUND RESISTANCE.
- B. SIGNAL GROUND TERMINAL: LOCATE AT MAIN EQUIPMENT RACK OR ISOLATE FROM POWER SYSTEM AND EQUIPMENT GROUNDING.
- C. INSTALL GROUNDING ELECTRODES OF TYPE, SIZE, LOCATION, & QUANTITY AS INDICATED. COMPLY WITH INSTALLATION REQUIREMENTS FROM MANUFACTURER & AS REQUIRED BY NFPA 70 & NFPA 72 LATEST EDITION.

3.5 FIELD QUALITY CONTROL

- A. MANUFACTURER FIELD SERVICE: ENGAGE A FACTORY AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT FIELD ASSEMBLED COMPONENTS & CONNECTIONS AND TO SUPERVISE PRE-TESTING, TESTING AND ADJUSTMENT OF THE SYSTEM. REPORT RESULTS IN WRITING.
- B. PRE-TESTING: AFTER INSTALLATION, ALIGN, ADJUST, AND BALANCE THE SYSTEM AND PERFORM COMPLETE PRE-TESTING. DETERMINE THROUGH PRE-TESTING, THE COMPLIANCE OF THE SYSTEM WITH REQUIREMENTS OF CONTRACT DOCUMENTS. CORRECT DEFICIENCIES OBSERVED IN PRE-TESTING. REPLACE MALFUNCTIONING OR DAMAGED ITEMS WITH NEW DEVICES, AND RETEST UNTIL SATISFACTORY PERFORMANCE IS ACHIEVED. PREPARE FORMS FOR SYSTEMATIC RECORDING OF ACCEPTANCE TEST
- C. REPORT OF PRE-TESTING: AFTER PRE-TESTING IS COMPLETE, PROVIDE A LETTER CERTIFYING THE INSTALLATION IS COMPLETE AND FULLY OPERABLE, INCLUDING NAMES AND TITLES OF WITNESSES TO PRELIMINARY TESTS.
- D. FINAL TEST NOTICE: PROVIDE MINIMUM OF 10 DAY'S NOTICE IN WRITING WHEN THE SYSTEM IS READY FOR FINAL ACCEPTANCE TESTING.
- E. MINIMUM SYSTEM TESTS: TEST THE SYSTEM ACCORDING TO PROCEDURES OUTLINED IN NFPA 72, LATEST EDITION. MINIMUM REQUIRED TESTS ARE AS FOLLOWS:
1. VERIFY ABSENCE OF UNWANTED VOLTAGES BETWEEN CIRCUIT CONDUCTORS AND GROUND.
 2. TEST ALL CONDUCTORS FOR SHORT CIRCUITS USING AND INSULATION TESTING DEVICE.
 3. WITH EACH CIRCUIT PAIR, SHORT AT THE FAR END OF THE CIRCUIT AND MEASURE THE CIRCUIT RESISTANCE WITH AN OHMMETER. RECORD THE CIRCUIT RESISTANCE OF EACH CIRCUIT ON THE RECORD DRAWINGS.
 4. VERIFY THAT THE CONTROL UNIT IS IN THE NORMAL CONDITION AS DETAILED IN THE MANUFACTURER'S OPERATION AND MAINTENANCE MANUAL.
 5. TEST INITIATING AND INDICATING CIRCUITS FOR PROPER SIGNAL TRANSMISSION UNDER OPEN CIRCUIT CONDITIONS. ONE CONNECTION EACH SHOULD BE OPENED AT NOT LESS THAN 10 PERCENT OF INITIATING AND INDICATING DEVICES. OBSERVE PROPER SIGNAL TRANSMISSION ACCORDING TO CLASS OF WIRING USED.
 6. TEST EACH INITIATING AND INDICATING DEVICE FOR ALARM OPERATION AND PROPER RESPONSE AT THE CONTROL UNIT. TEST SMOKE DETECTORS WITH ACTUAL PRODUCTS OF COMBUSTION.
 7. TEST THE SYSTEM FOR ALL SPECIFIED FUNCTIONS ACCORDING TO THE APPROVED OPERATION AND MAINTENANCE MANUAL. SYSTEMATICALLY INITIATE SPECIFIED FUNCTIONAL PERFORMANCE ITEMS AT

- EACH STATION, INCLUDING MAKING ALL POSSIBLE ALARM AND MONITORING INDICATIONS AND USING ALL COMMUNICATIONS OPTIONS. FOR EACH ITEM, OBSERVE RELATED PERFORMANCE AT ALL DEVICES REQUIRED TO BE AFFECTED BY THE ITEM UNDER ALL SYSTEM SEQUENCES. OBSERVE INDICATING LIGHTS, DISPLAYS AND SIGNAL TONES. OBSERVE ALL VOICE AUDIO FOR ROUTING, CLARITY, QUALITY, FREEDOM FROM NOISE AND DISTORTION, AND PROPER VOLUME LEVEL.
8. TEST BOTH PRIMARY AND SECONDARY POWER: VERIFY BY TEST THAT THE SECONDARY POWER SYSTEM IS CAPABLE OF OPERATING THE SYSTEM FOR THE PERIOD AND THE MANNER SPECIFIED.
- F. RETESTING: CORRECT DEFICIENCIES INDICATED BY TESTS AND COMPLETELY RETEST WORK AFFECTED BY SUCH DEFICIENCIES. VERIFY BY THE SYSTEM TEST THAT THE TOTAL SYSTEM MEETS SPECIFICATIONS AND COMPLIES WITH APPLICABLE STANDARDS.
- G. REPORT OF TESTS AND INSPECTIONS: PROVIDE A WRITTEN RECORD OF INSPECTIONS, TESTS, AND DETAILED TEST RESULTS IN THE FORM OF A TEST. SUBMIT LOG ON SATISFACTORY COMPLETION OF TESTS.
- H. TAG ALL EQUIPMENT, STATIONS AND OTHER COMPONENTS AT WHICH TESTS HAVE BEEN SATISFACTORILY COMPLETED.
- I. BEFORE REQUESTING FINAL APPROVAL OF INSTALLATION, SUBMIT A WRITTEN STATEMENT USING FORM FOR RECORD OF COMPLETION IN NFPA 72.

3.6 CLEANING AND ADJUSTING

- A. CLEANING: REMOVE PAINT SPLATTERS AND OTHER SPOTS, DIRT, AND DEBRIS. TOUCH UP SCRATCHES AND MARRED FINISH TO MATCH ORIGINAL FINISH. CLEAN UNIT INTERNALLY USING METHODS AND MATERIALS RECOMMENDED BY MANUFACTURER.

SPRINKLER MONITORING SYSTEM INPUT/OUTPUT MATRIX										SYSTEM OUTPUTS									
										FACP ANNUNCIATION		NOTIFICATION		REQUIRED SAFETY CONTROL					