

COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING C - VEHICLE MAINTENANCE GARAGE

1855 NW COUNTY ROAD 25A, LAKE CITY, FL 32055
CONSTRUCTION DOCUMENTS - 02.25.2026

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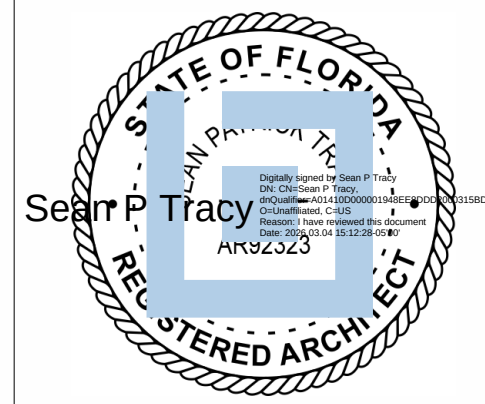
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ISSUE FOR
CONSTRUCTION DOCUMENTS

ISSUE DATE
02.25.2026

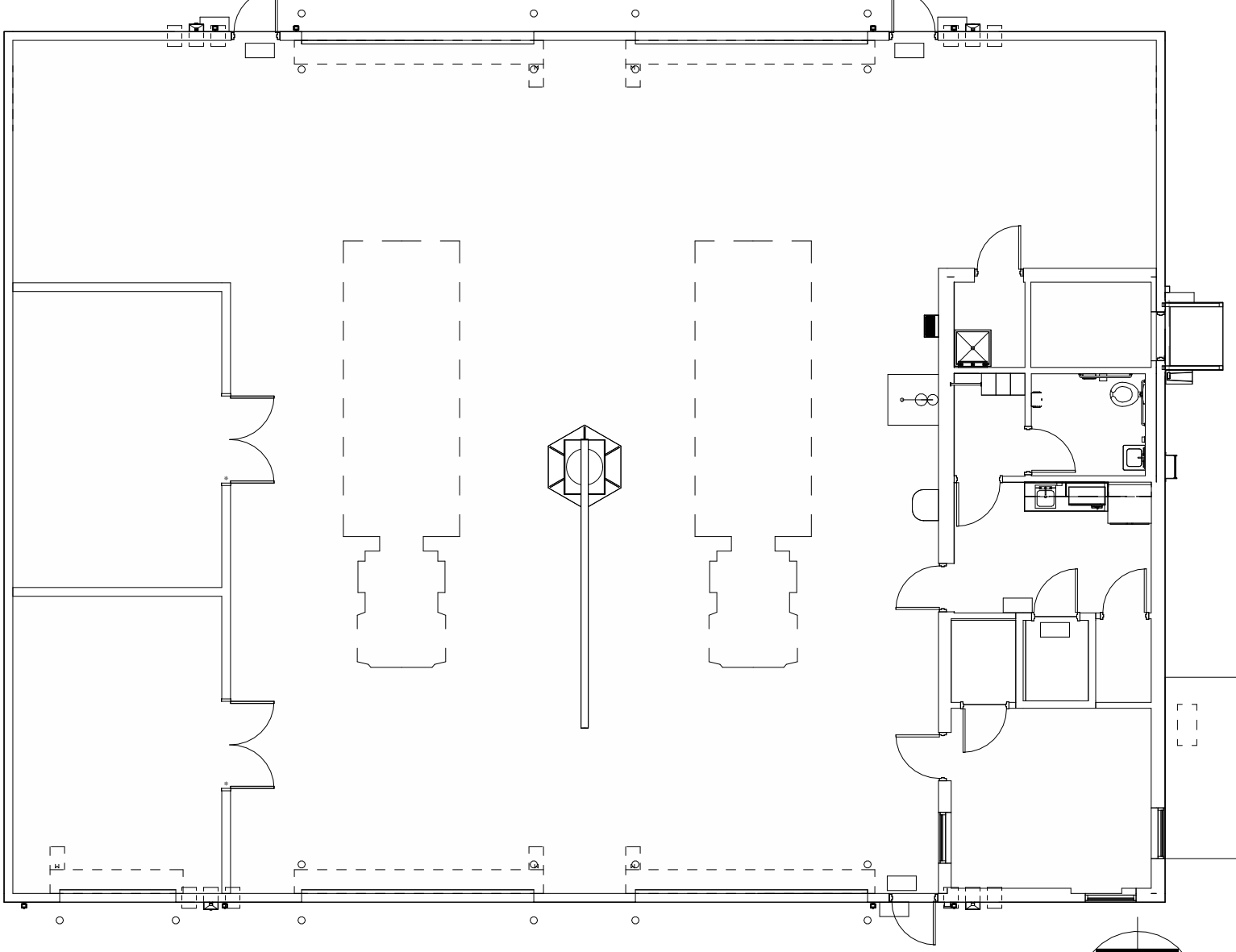
REVISIONS
NO. REASON DATE

PROJECT TEAM
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PROJECT NAME

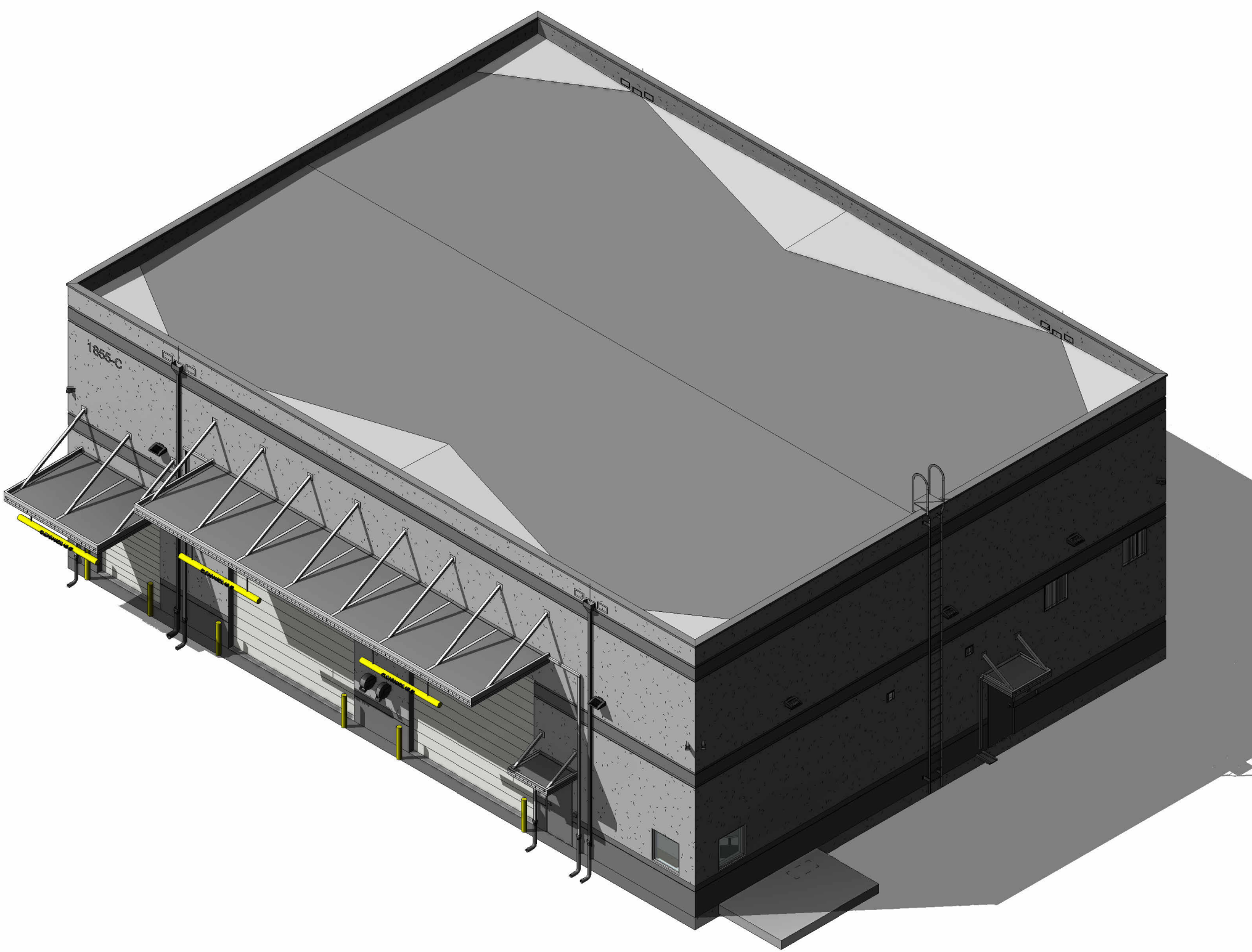
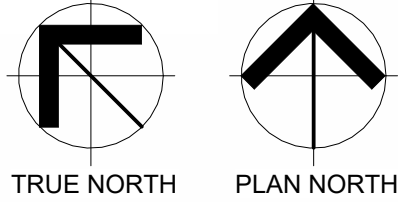
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C
VEHICLE MAINTENANCE
GARAGE

PROJECT NO.
814C632800
SHEET TITLE
COVER SHEET

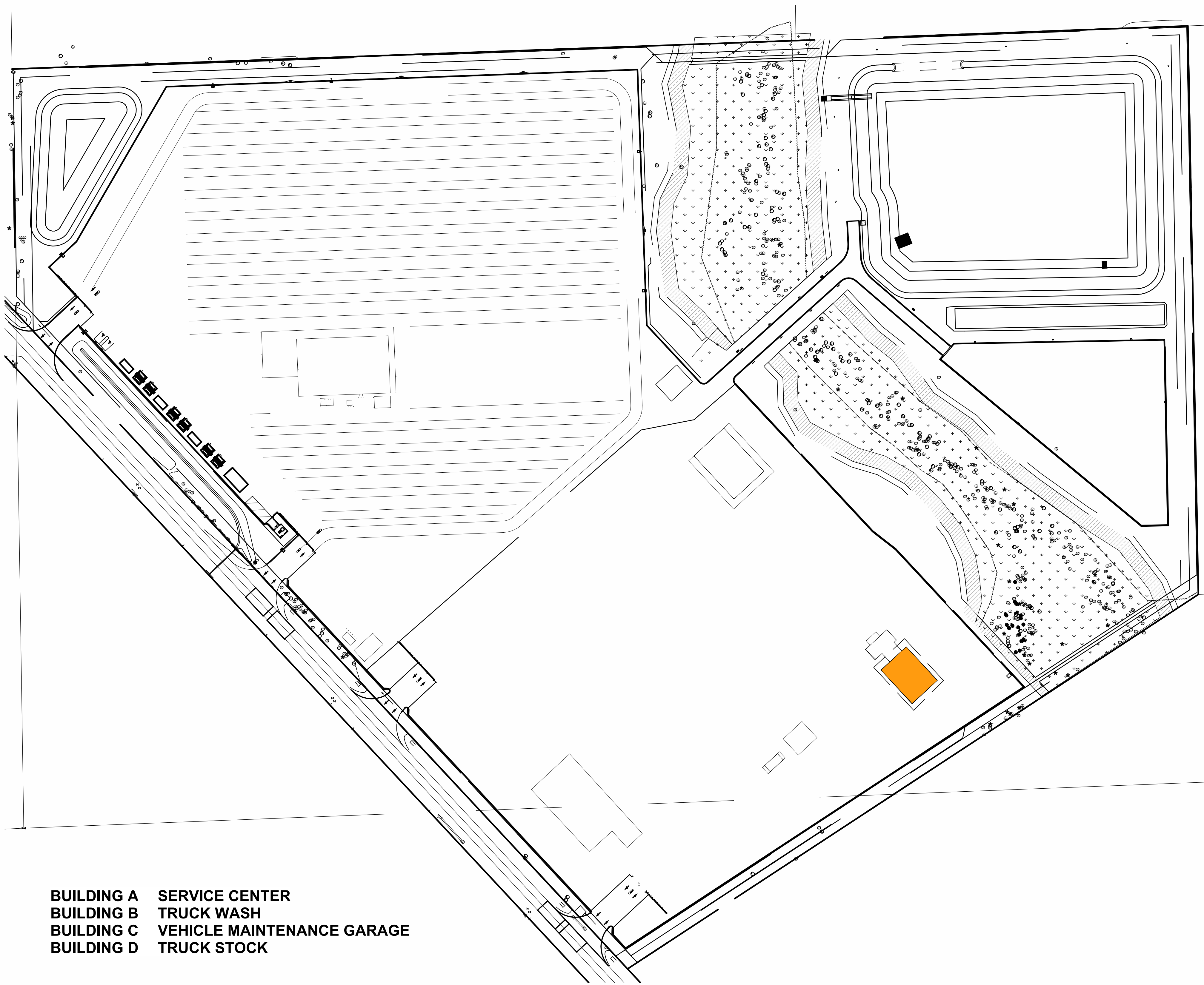
SHEET NUMBER
C-G000



KEY PLAN - BUILDING C



3D VIEW - BUILDING C



COVER SHEET PLAN
1" = 100'-0"

NOTE: REFER TO CIVIL DRAWINGS FOR SITE PERMIT DOCUMENTS.

BUILDING A SERVICE CENTER
BUILDING B TRUCK WASH
BUILDING C VEHICLE MAINTENANCE GARAGE
BUILDING D TRUCK STOCK

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F

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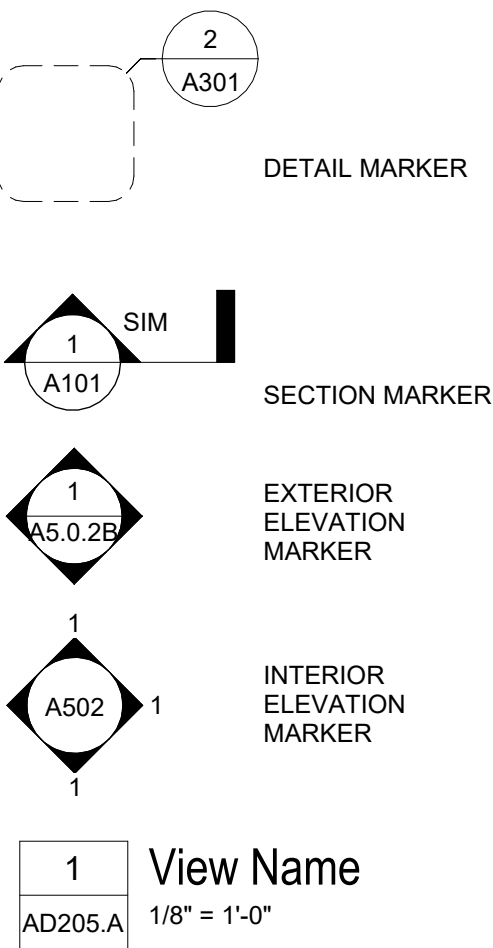
A

SYMBOLS

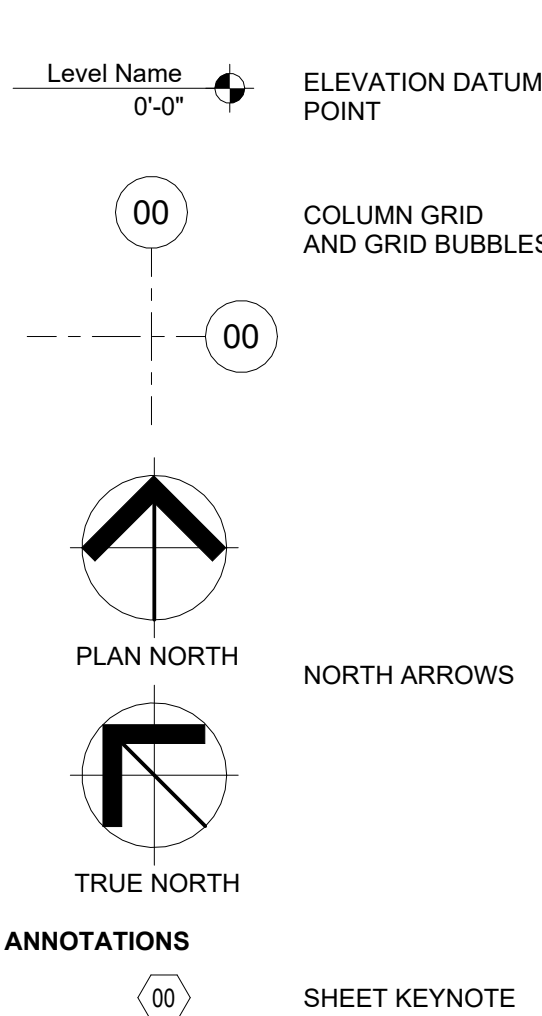
ARCHITECTURAL ELEMENTS

ROOM NAME 101	ROOM NAME ROOM NUMBER	ACT-1 +1'- 0"	CEILING TYPE FINISH ELEVATION
V000000	DOOR NUMBER		
0000A,XX	INTERIOR PARTITION TAG		
W1	WINDOW TAG		
S1	STOREFRONT TAG		
L1	LOUVER TAG		
X	TOILET ACCESSORIES TAG		
P-1	FINISH MATERIAL TAG		
E-1	EQUIPMENT TAG		
CR	ELECTRIC DOOR FUCTION		

VIEW ELEMENTS

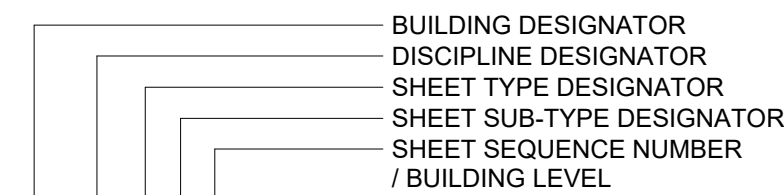


SITE & LOCATION ELEMENTS



SHEET NUMBERING LEGEND

SHEET NUMBER STRUCTURE



NOTE: REFER TO ARCHITECTURAL SITE PLAN FOR BUILDING DESIGNATIONS

DISCIPLINE DESIGNATORS

G	GENERAL / LIFE SAFETY
H	HAZARDOUS MATERIALS
V	SURVEY / MAPPING
B	GEOTECHNICAL
C	CIVIL
L	LANDSCAPE
A	ARCHITECTURE
I	INTERIORS
S	STRUCTURAL
P	PLUMBING
F	FIRE PROTECTION
M	MECHANICAL
E	ELECTRICAL
T	TELECOM / DATA
D	DEMOLITION (BY DISCIPLINE)
X	OTHER DISCIPLINES

SHEET TYPE DESIGNATORS

0	GENERAL INFORMATION
1	PLANS
2	ELEVATIONS
3	SECTIONS
4	ENLARGEMENTS
5	DETAILS
6-9	(VARIES BY DISCIPLINE)

ABBREVIATIONS

Abbr.	Abbreviated Phrase	Abbr.	Abbreviated Phrase	Abbr.	Abbreviated Phrase
ACT	ACOUSTIC CEILING TILE	FG	FACE OF GLASS	PEO	PEDESTAL, PEDESTRIAN, PEDIATRIC
ADJ	ADJUSTABLE	FOS	FACE OF SHEATHING	PERF	PERFORATE(D)
AED	AUTOMATED EXTERNAL DEFIBRILLATOR	FPA	FLORIDA PRODUCT APPROVAL	PFB	PREFABRICATE(D)
AFF	ABOVE FINISH FLOOR	FR	FIRE RETARDANT TREATED FIBERGLASS REINFORCED PLASTIC	PL, PLAM	PLASTIC LAMINATE
AL	ALUMINUM	FRP	FOOT, FEET	PLAS	PLASTER, PLASTIC
ALT	ALTERNATE	FT	FURR(ED), (ING)	PLYWD	PLYWOOD
AMC	ACOUSTICAL METAL CEILING	FURR	FUTURE	PNL	PANEL
APC	ACOUSTICAL PANEL CEILING	FUT	FUTURE	PNT	PAINT(ED)
APPROX	APPROXIMATE	FWC	FABRIC WALL COVERING	PR	PAIR
ARCH	ARCHITECT(URAL)	FWP	FABRIC WRAPPED PANEL	PT	PRESSURE TREAT(ED)
ARP	ACRYLIC RESIN PANEL	GA	GAUGE	PTN	PARTITION
AWC	ACOUSTICAL WOOD CEILING	GALV	GALVANIZED	QT	QUARRY TILE
BBD	BULLETIN BOARD	GB	GLASS BOARD	OZ	QUARTZ, ENGINEERED QUARTZ
BD	BOARD	GC	GENERAL CONTRACTOR		
BO	BOTTOM OF	GL	GLASS, GLAZING	RB	RUBBER BASE
BOT	BOTTOM	GR	GROUT	RBT	RUBBER TILE
CIL, CL	CENTERLINE	GRN	GRANITE	REC	RECEPTACLE
CAB	CABINET	GYP	GYPNUM BOARD	REFR	REFRIGERATOR
CC	CUBICLE CURTAIN	HC	HOLLOW CORE	REM	REMOVE
CIR	CIRCLE	HD	HAND DRYER	REQ'D	REQUIRED
CLO	CEILING CLOSET	HDR	HEADER	RM	ROOM
CLR	CLEAR(ANCE)	HDW	HARDWARE	RS	RESILIENT
COL	COLUMN	HGT	HEIGHT		
CON.	CONCRETE	HORIZ	HORIZONTAL(LY)	S&R	SHELF AND ROD
CONST	CONSTRUCTION	HR	HOUR	SATM	SELF-ADHERING TRANSITION
CONT	CONTINUOUS / CONTINUE	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	SCW	SOLID CORE WOOD
CONTR	CONTRACTOR	HWD	HARDWOOD	SECT	SECTION
COORD	COORDINATE	IBC	INTERNATIONAL BUILDING CODE	SF	SQUARE FEET
CPT	CARPET	ID	INSIDE DIAMETER	SFI	SPRAY FOAM INSULATION
CR	CARD READER	INCL	INCLUDE(D), (ING)	SFRM	SPRAYED FIRE RESISTIVE MATERIAL
CRB	COVERED RUBBER BASE	INSUL	INSULATE(D), (ING)	SHR	SHOWER
CTR	CENTER	INT	INTERIOR	SIM	SIMILAR
D	DRYER	JAN	JANITOR'S CLOSET	SPEC	SPECIFICATION(S)
DBL	DOUBLE	JT	JOINT	SS	STAINLESS STEEL
DEG	DEGREE			SSM	SOLID SURFACE MATERIAL
DEMO	DEMOLISH / DEMOLITION			ST	STONE
DET, DTL	DETAIL			STD	STANDARD
DIA	DIAMETER	KIT	KITCHEN	STOR	STORAGE
DIM	DIMENSION	KPL	KICK PLATE	STR	STRUCTURE
DR	DOOR	L	LENGTH	SUSP	SUSPENDED
DS	DOWNSPOUT	LAM	LAMINATE(D)	SUSP CLG	SUSPENDED CEILING
DWG	DRAWING(S)	LBL	LABEL	SV	SHEET VINYL
DWR	DRAWER	LOCKR	LOCKER	SYS	SYSTEM
EA	EACH	LIN	LINE/LEUM		
EL	ELEVATION	LT	LIGHT	TB	TACK BOARD
ELEC	ELECTRICAL	LVL	LAMINATED VENEER LUMBER	TEMP	TEMPERED, TEMPORARY
ELEV	ELEVATOR	LVT	LUXURY VINYL TILE	TME	TO MATCH EXISTING
EOS	EDGE OF SLAB	MATL	MATERIAL(S)	TO	TOP OF
EP	EPOXY FLOORING	MAX	MAXIMUM	TYP	TYPICAL
EQ	EQUAL(LY)	MB	MARKER BOARD	TZ	TERRAZZO
EQPT	EQUIPMENT	MECH	MECHANICAL	UNO	UNLESS NOTED OTHERWISE
EW	EACH WAY	MFR	MANUFACTURE(R)	VB	VINYL BASE
EWG	ELECTRIC WATER COOLER	MIN	MINIMUM	VCT	VINYL COMPOSITE TILE
EXIST	EXISTING	MISC	MISCELLANEOUS	VERT	VERTICAL(LY)
EXP	EXPANSION	MP	METAL PANEL	VIF	VERIFY IN FIELD
EXT	EXTERIOR	MTD	MOUNTED	VIN	VINYL
FAAP	FIRE ALARM ANNUNCIATOR PANEL	MTL	METAL	VT	VINYL TILE
FACP	FIRE ALAM CONTROL PANEL	MULL	MULLION	VWC	VINYL WALL COVERING
FBO	FURNISHED BY OTHERS	MWK	MILLWORK		
FDC	FIRE DEPARTMENT CONNECTION	N	NORTH	W	WIDTH
FE	FIRE EXTINGUISHER	NIC	NOT IN CONTRACT	W/	WITH
FEC	FIRE EXTINGUISHER CABINET	NO, #	NUMBER	W/O	WITHOUT
FF	FINISH FLOOR	NR	NOISE REDUCTION	WB	WOOD BASE
FIN	FINISH(ED)	NRC	NOISE REDUCTION COEFFICIENT	WC	WATER CLOSET
FLR	FLOOR(ING)	NTS	NOT TO SCALE	WD	WOOD
FLUOR	FLUORESCENT	OC	ON CENTER	WGT	WEIGHT
FO	FACE OF	OFF	OFFICE	WIN	WINDOW
FOB	FACE OF BRICK	OH	OPPOSITE HAND	WM	WALK-OFF MAT/ FLOORING
		OPNG	OPENING	WTW	WALL TO WALL
		OTD	OPEN TO DECK		

GENERAL NOTES: CONSTRUCTION

- CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL SITE, FIELD AND BUILDING CONDITIONS PRIOR TO SUBMITTING BIDS AND COMMENCING WORK. IF THERE ARE ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS, CONFERENCE WITH CONSTRUCTION MANAGER AND ARCHITECT/ENGINEER FOR RESOLUTION.
- DO NOT SCALE DRAWINGS. ALL PARTITION LOCATIONS, DIMENSIONS AND TYPES, DOOR AND WINDOW LOCATIONS SHALL BE AS SHOWN ON FLOOR PLANS. IN CASE OF CONFLICT, NOTIFY ARCHITECT. FIELD VERIFY ALL DIMENSIONS.
- CONTRACTOR SHALL FURNISH ALL ADDITIONAL DATA AND DOCUMENTATION TO SECURE ALL REQUIRED PERMITS AND SHALL COORDINATE THIS DATA AND DOCUMENTATION WITH THE CONSTRUCTION DOCUMENTS WHERE REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND CLOSING OUT ALL NECESSARY AND APPLICABLE PERMITS AND INSPECTION TO CONSTRUCT THE WORK. THIS SHALL INCLUDE BUT NOT BE LIMITED TO STATE, COUNTY AND LOCAL GOVERNMENT AGENCIES.
- FIRE-RATED GYPSUM WALL ASSEMBLIES - THE CONTRACTOR SHALL PROVIDE FOR THE FOLLOWING:
 - COMBUSTIBLE MATERIAL SHALL ABSOLUTELY NOT BE ALLOWED TO PENETRATE THE FIRE-RATED GYPSUM WALL MEMBRANE (ASSEMBLY). THIS INCLUDES INTERSECTIONS OF NON-RATED PARTITIONS WITH FIRE-RATE PARTITIONS.
 - FIRE-RATED WALLS SHOWN ARE TESTED ASSEMBLIES AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TESTING AGENCY SPECIFICATION SHOWN ON THESE DRAWINGS. NO DEVIATION FROM SPECIFICATION SHALL BE ALLOWED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT AND PERMITTING AGENCY.
 - STUD OR JOIST SPACING SHOWN ARE MINIMAL VALUES. IE: STUD OR JOIST SPACING CANNOT EXCEED THE TESTED ASSEMBLY SPECIFICATION. STUD AND JOISTS ARE MINIMUMS.
 - GYPSUM BOARD USED IN THE SPECIFIED ASSEMBLY SHALL HAVE THE PROPER UL LISTING OR OTHER AGENCY SPECIFICATION STENCILED ON THE REVERSE SIDE OF THE BOARD INDICATING THAT THE GYPSUM BOARD IS TO BE USED IN THE SPECIFIED ASSEMBLY.
 - GYPSUM BOARD ASSEMBLY SHALL BE CONTINUOUS AND UNINTERRUPTED VERTICALLY, HORIZONTALLY OR THROUGH ANY OFFSETS REQUIRED. ALL PENETRATIONS THROUGH THE WALL SHALL BE PROPERLY FIRESTOPPED WITH THE SPECIFIED FIRE STOP SYSTEM SPECIFIED ON THE DRAWINGS.
- ANY DISTURBED OR NEWLY CONSTRUCTED FIRE-RATED WALL ASSEMBLIES SHALL BE IDENTIFIED AS FOLLOWS:
 - ALL UL-RATED WALL ASSEMBLIES SHALL BE IDENTIFIED WITH STENCILING ABOVE THE FINISHED CEILING ON BOTH FACES. ON ALL WALLS AS "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS" WITH HOUR RATING INCLUDED. SUCH IDENTIFICATION SHALL BE LOCATED WITHIN 15' OF THE END OF EACH WALL, AT INTERVALS NOT TO EXCEED 30'. LETTERING NOT LESS THAN 3" IN HEIGHT WITH MIN 3/8" STROKE IN CONTRASTING COLOR.
- AROUND ALL EXPOSED PIPES, CONDUIT OR DUCTS, INSTALL ENCLOSURES OF THE SAME MATERIAL AND FINISH AS ADJACENT WORK, UNLESS NOTED OTHERWISE.
- PROVIDE AND INSTALL ALL NECESSARY SUPPORT, BLOCKING, ANCHORING AND BRACING FOR ELECTRIC LIGHT FIXTURES, MECHANICAL EQUIPMENT, PIPES, MARKERBOARDS, TACKBOARDS, CCTV, INTERCOM, PROJECTORS, TOILET ACCESSORIES, BLINDS, GRAB BARS, ETC.
- ANY SURFACES OR AREAS NOT CLEARLY DEFINED OR INDICATED BY FINISH SCHEDULE SHALL BE OF SAME MATERIAL AND FINISH AS SURFACES OR AREAS OF SIMILAR USE ELSEWHERE.
- FINISHES SHOWN IN SCHEDULE TO EXTEND OVER, UNDER AND BEHIND CABINETS, COUNTERS, EQUIPMENT, FURNISHINGS, CHALK AND TACK BOARDS, RACKS, AND FIXTURES APPROXIMATELY 1"-2", WALLS BEHIND SAME TO BE FILLED AND PRIMED.
- WALL FINISHES SHALL INCLUDE ALL PROJECTIONS, RECESSES, COLUMNS, ENCLOSURES, BULKHEADS AND SOFFITS..
- EXTERIOR PERIMETER OF ALL WINDOWS, DOOR FRAMES, LOUVERS OR OTHER ITEMS INSERTED IN AN EXTERIOR WALL SHALL BE SEALED WEATHER TIGHT WHETHER INDICATED ON DRAWINGS OR NOT.
- CEILING FINISHES SHALL INCLUDE ALL PROJECTIONS, BEAMS, BOXED ENCLOSURES, BULKHEADS AND SOFFITS.
- SEE STRUCTURAL DRAWINGS FOR LOCATIONS OF ALL VERTICAL AND HORIZONTAL MASONRY WALL REINFORCEMENT.
- FIELD CHECK ALL ROUGH AND/OR FINISH DIMENSIONS FOR ACCURATE FITTING OF EQUIPMENT, CABINETS, COUNTERS, FIXTURES AND ACCESSORIES BEFORE FABRICATION. PROVIDE AND INSTALL ALL NECESSARY FILLERS, SCRIBE STRIPS, PANELS, BASES OR TRIM TO COMPLETE AND FINISH INSTALLATIONS.
- CONSULT PLUMBING, ELECTRICAL AND MECHANICAL DRAWINGS FOR LOCATIONS AND DESCRIPTION OF ACCESS PANELS, LOUVER OPENINGS, VENTILATORS, GRILLES, REGISTERS, PANELS, VALVE CABINETS, DRINKING FOUNTAINS, ETC.
- ALL SWITCHES, OUTLETS, THERMOSTATS, CLOCKS, SPEAKERS, FLAG POLE HOLDERS OR OTHER WALL MOUNTED DEVICES OR CONTROLS SHALL BE INSTALLED IN LOCATIONS WHICH ARE UNOBSTRUCTED BY CABINETS, COUNTERS, RACKS, FIXTURES, CHALK AND TACK BOARDS, FURNISHINGS OR EQUIPMENT. ITEMS INTENDED FOR WALL MOUNTING SHALL NOT BE INSTALLED ON, THROUGH OR INTO ANY OTHER EQUIPMENT UNLESS SPECIFICALLY CALLED FOR. VERIFY MOUNTING HEIGHTS WITH ADA EQUIREMENTS.
- PROVIDE AND INSTALL ALL NECESSARY HARDWARE, BRACKETS, BRACING, ANCHORING, INSERTS, BLOCKING, FURRING OR OTHER SUPPLEMENTARY ITEMS NEEDED FOR COMPLETE INSTALLATION OF EQUIPMENT, CABINETS, FIXTURES, ACCESSORIES, DISPLAY CASES, TV DISPLAYS, MIRRORS, HAND RAILS, SAFETY HOOKS, COUNTERS AND GRAB BARS, KNOX BOXES OR THE EQUAL, ADDRESS NUMBERS AND NAMES, SIGNAGE, FIRE ALARM CONTROL PANELS, BUILDING MAINTENANCE SYSTEM AND BI-DIRECTIONAL AMPLIFIER (BDA) EMERGENCY RADIO SYSTEM.
- COORDINATE AND PROVIDE BLOCKING IN PARTITIONS AND CEILINGS FOR CASEWORK, AUDIO VISUAL DEVICES AND EQUIPMENT, TOILET ROOM ACCESSORIES AND PARTITIONS ETC. FOR WALL AND CEILING ATTACHED ITEMS.

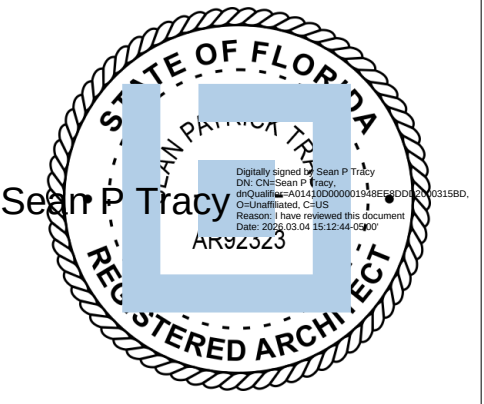
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NO. REASON DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
SEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES
DESIGN TEAM
ORL-COMMUNITY
PROJECT NAME

COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL

814C632800

ABBREVIATIONS,
SYMBOLS, GENERAL
NOTES

SHEET NUMBER

C-G001



ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM (GROSS)

BUSINESS AREA (GROSS)

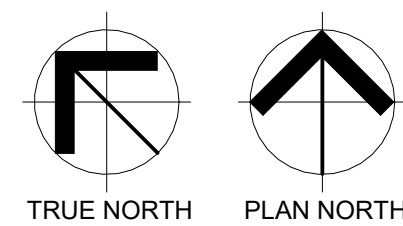
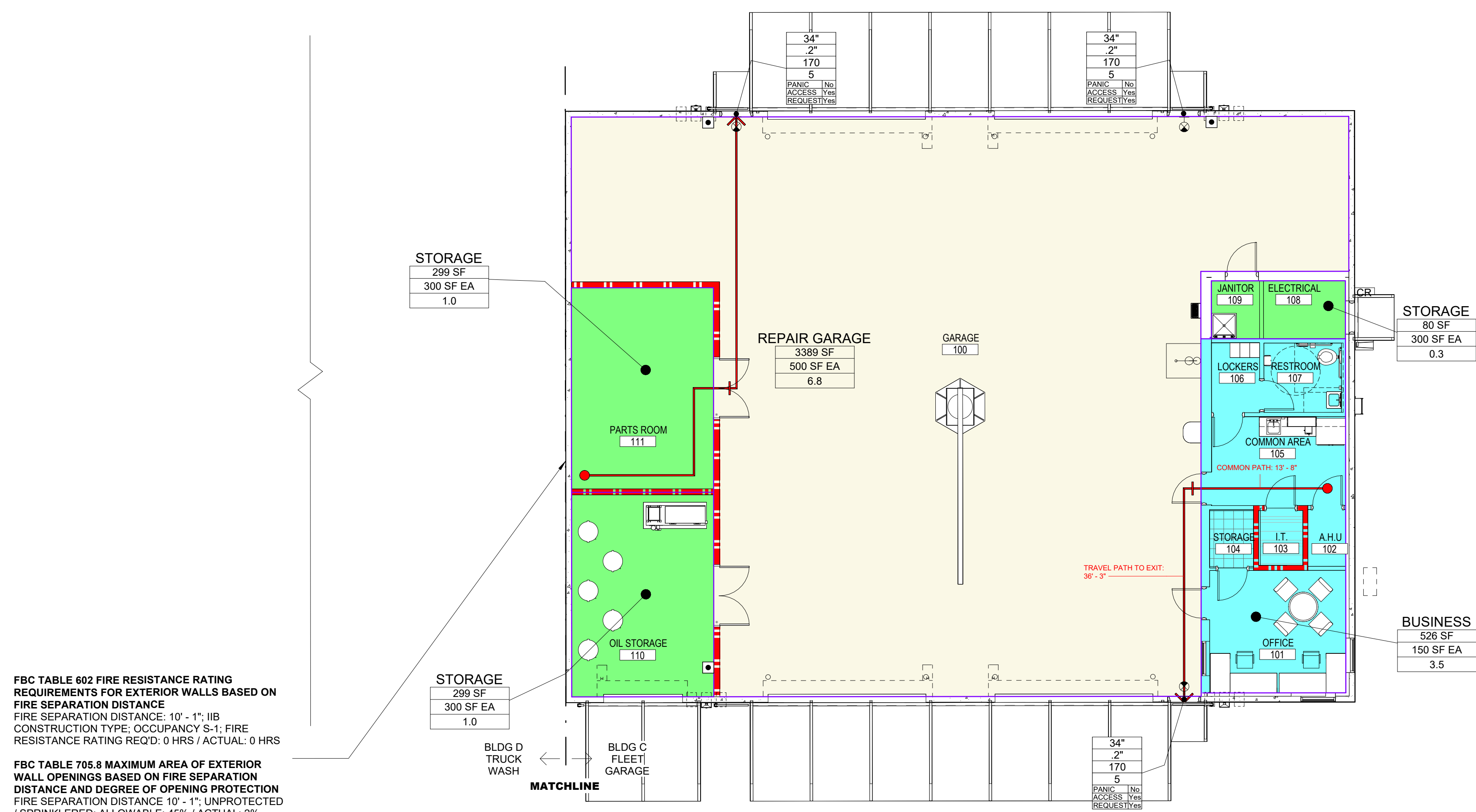
WAREHOUSES, REPAIR GARAGES (GROSS)

The diagram illustrates various fire alarm and life safety symbols and their meanings:

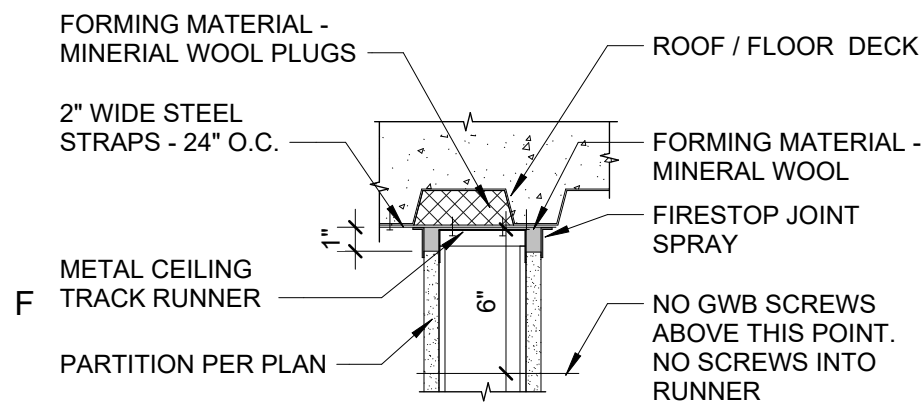
- Occupant Capacity and Access Request Symbols:**
 - 34" x 0.2" x 75" (Panic Access Requesting):** CLEAR OPENING WIDTH, CLEAR WIDTH PER OCCUPANT, OCCUPANT CAPACITY, ACTUAL OCCUPANT LOAD, PANIC HARDWARE, ACCESS CONTROL DEVICE (E.G. CARD READER), REQUEST TO EXIT.
 - 34" x 170" x 75" (Occupant Capacity):** CLEAR STAIR WIDTH, CLEAR WIDTH PER OCCUPANT, OCCUPANT CAPACITY, ACTUAL OCCUPANT LOAD.
- Travel Distance Symbols:**
 - TRAVEL DISTANCE SHOWN: 0'00" (Exit Egress Distance):** EXIT EGRESS DISTANCE, EXIT EGRESS COMMON PATH.
 - TRAVEL DISTANCE SHOWN: 0'00" (Exit Egress Dead End Distance):** EXIT EGRESS DEAD END DISTANCE.
- Diagonal Distance Symbol:**
 - DIAGONAL DISTANCE: 14' - 0" (Overall Diagonal Distance):** OVERALL DIAGONAL DISTANCE.
- Distance Between Exits Symbol:**
 - DISTANCE BETWEEN EXITS: 14' - 0" (Exit Remoteness Distance):** EXIT REMOTENESS DISTANCE.
- Card Reader Symbol:**
 - CR (Card Reader):** CARD READER.
- Area Name Symbol:**
 - Area Name (150 SF, 100 SF EA Occupants):** AREA.
- Illuminated Exit Sign Symbols:**
 - CLNG MTD (Illuminated Exit Sign):** ILLUMINATED EXIT SIGN.
 - WALL MTD (Illuminated Exit Sign):** ILLUMINATED EXIT SIGN.
- Surface Mounted Fire Extinguisher Symbol:**
 - SURFACE MOUNTED FIRE EXTINGUISHER:** SURFACE MOUNTED FIRE EXTINGUISHER.
- Semi-Recessed Fire Extinguisher and Cabinet Symbol:**
 - SEMI-RECESSED FIRE EXTINGUISHER AND CABINET:** SEMI-RECESSED FIRE EXTINGUISHER AND CABINET.

	FIRE BARRIER		SMOKE PARTITION
1-HOUR		0-HOUR	
2-HOUR			
3-HOUR			
	FIRE WALL		SMOKE BARRIER
2-HOUR		1-HOUR	
3-HOUR			
4-HOUR			

LEVEL 01 - MEANS OF EGRESS SIZING								
Occupant Load	EGRESS CAPACITY FACTOR		EXIT WIDTHS REQUIRED		EXIT WIDTHS PROVIDED		NUMBER OF EXITS	
	DOORS	STAIRS	DOORS	STAIRS	DOORS	STAIRS	REQUIRED	PROVIDED
15	0.20	0.30	32"	0"	102"	0"	2	3



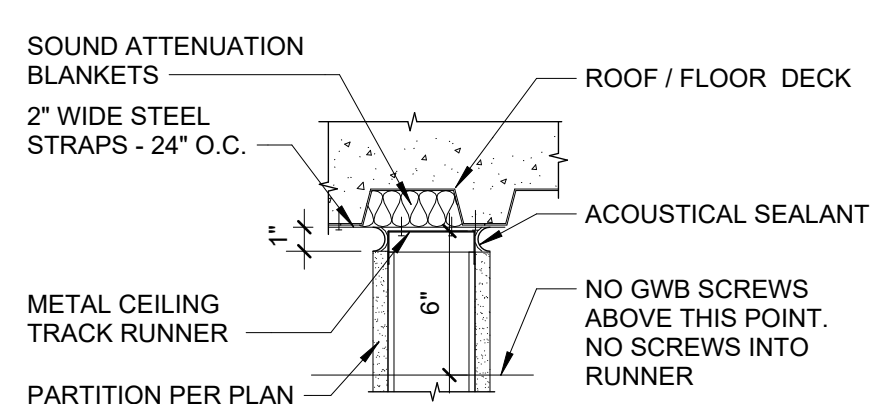
GWB HEAD CONDITIONS



RATED HEAD CONDITION

HEAD - GWB - PARALLEL TO DECKING

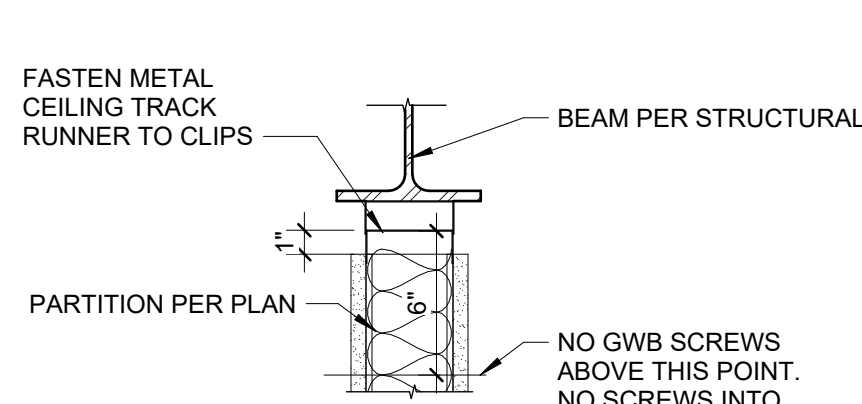
1 1/2" = 1'-0"



NON RATED HEAD CONDITION

HEAD - GWB - PARALLEL TO DECKING

1 1/2" = 1'-0"

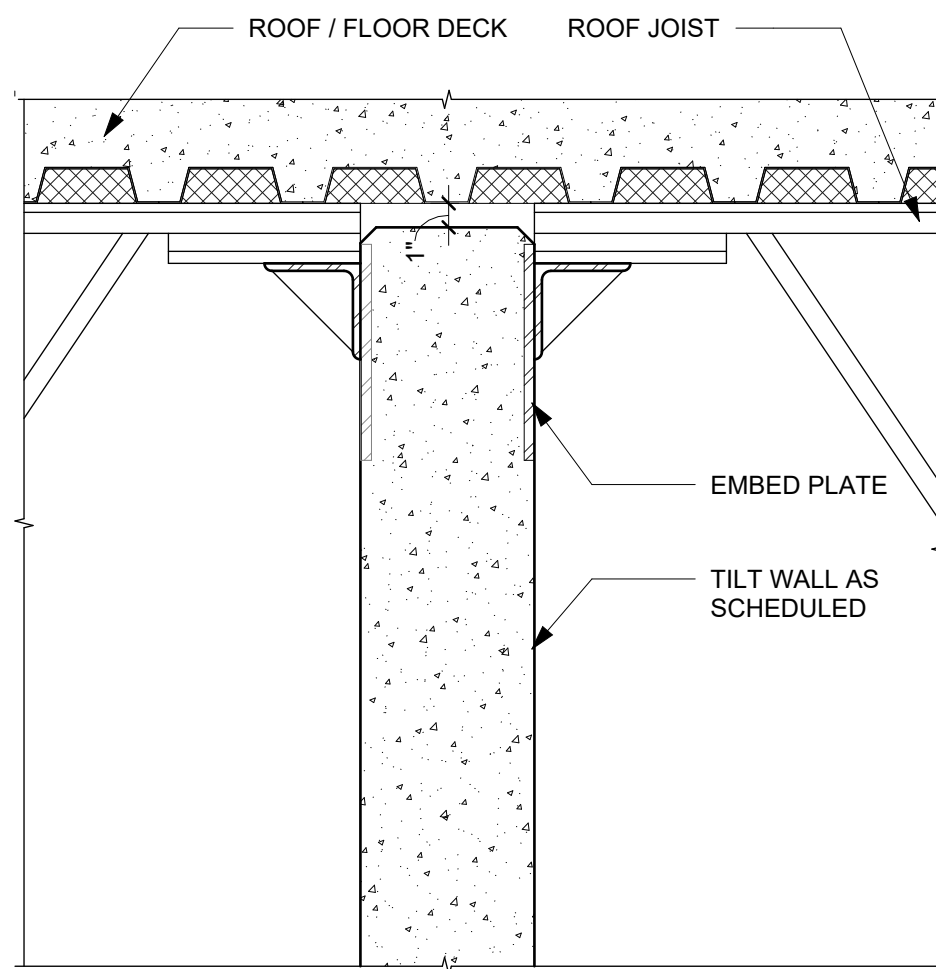


NON RATED HEAD CONDITION AT BEAM

HEAD - GWB - PARALLEL TO DECKING

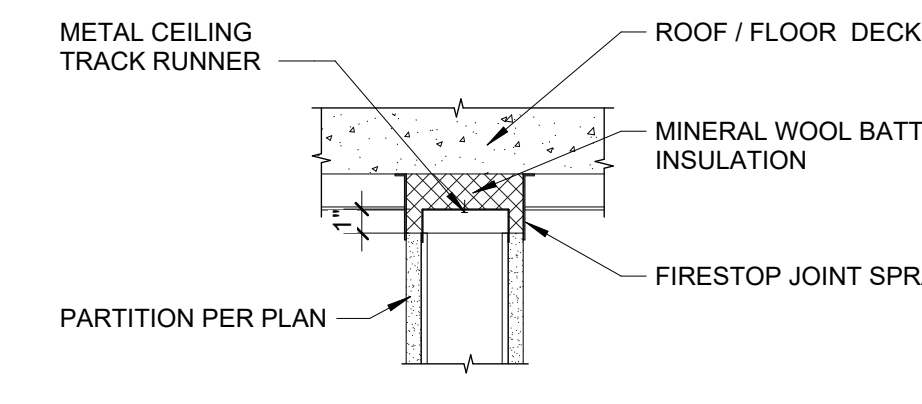
1 1/2" = 1'-0"

TILT PANEL HEAD CONDITIONS



HEAD - TILT WALL - PARALLEL DECK

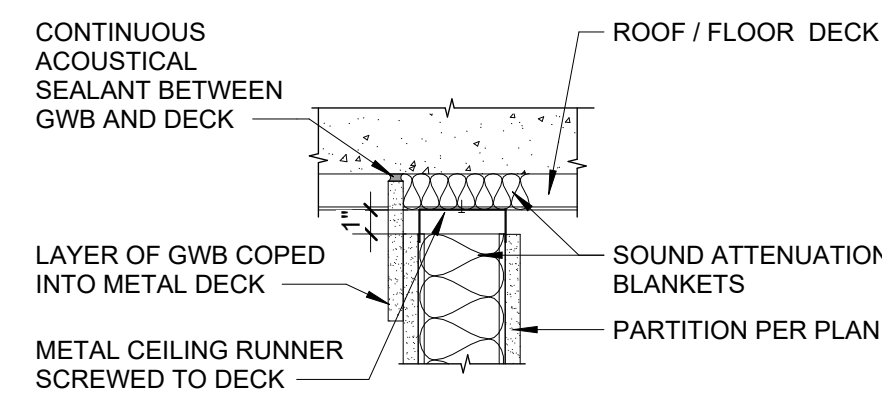
1 1/2" = 1'-0"



RATED CONDITION

HEAD - GWB - PERPENDICULAR TO DECK - COND. A

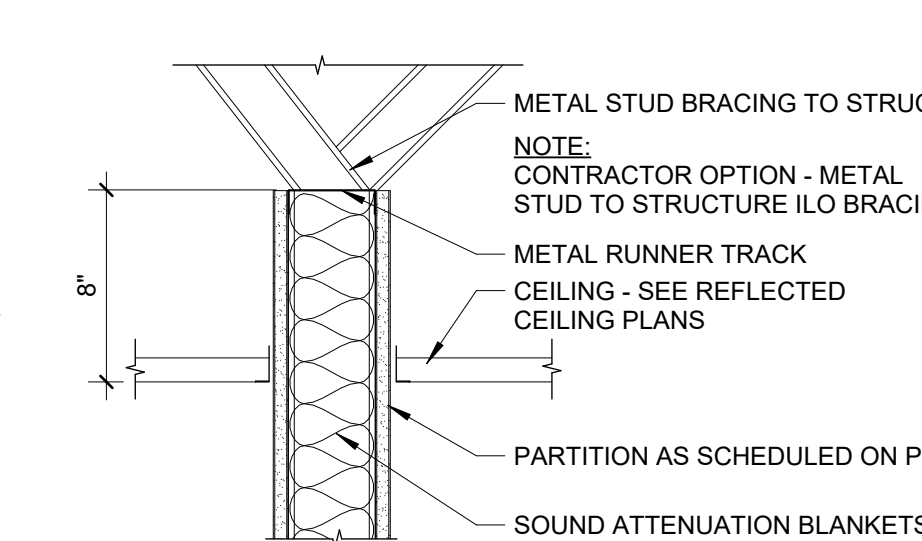
1 1/2" = 1'-0"



NON - RATED CONDITION

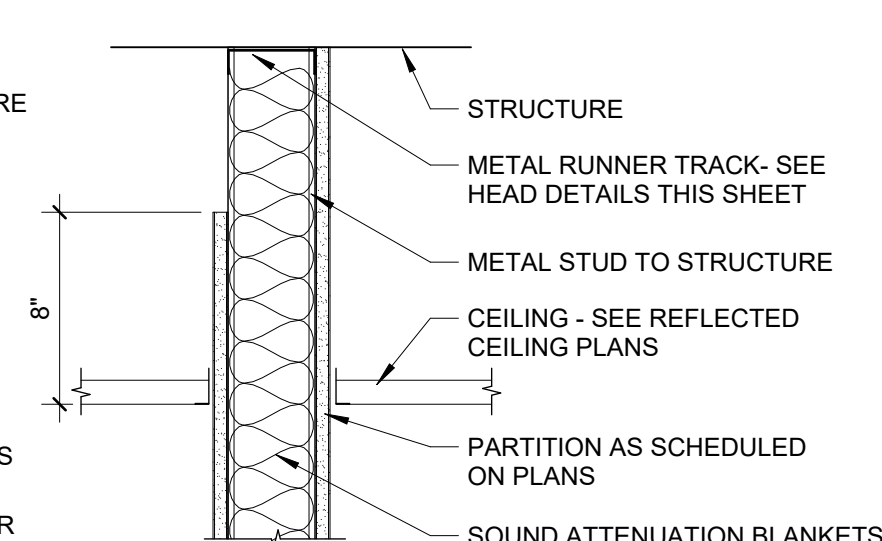
HEAD - GWB - PERPENDICULAR TO DECK - COND. A

1 1/2" = 1'-0"



HEAD - GWB - COND. B(1)

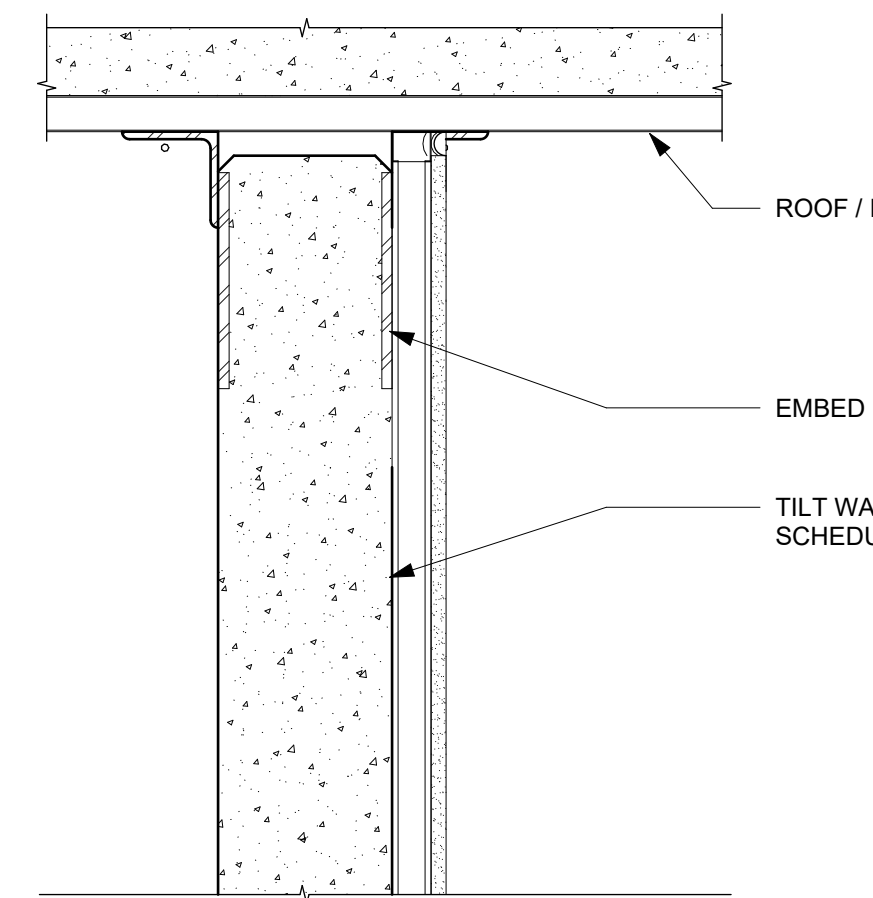
1 1/2" = 1'-0"



HEAD - GWB - COND. B(2)

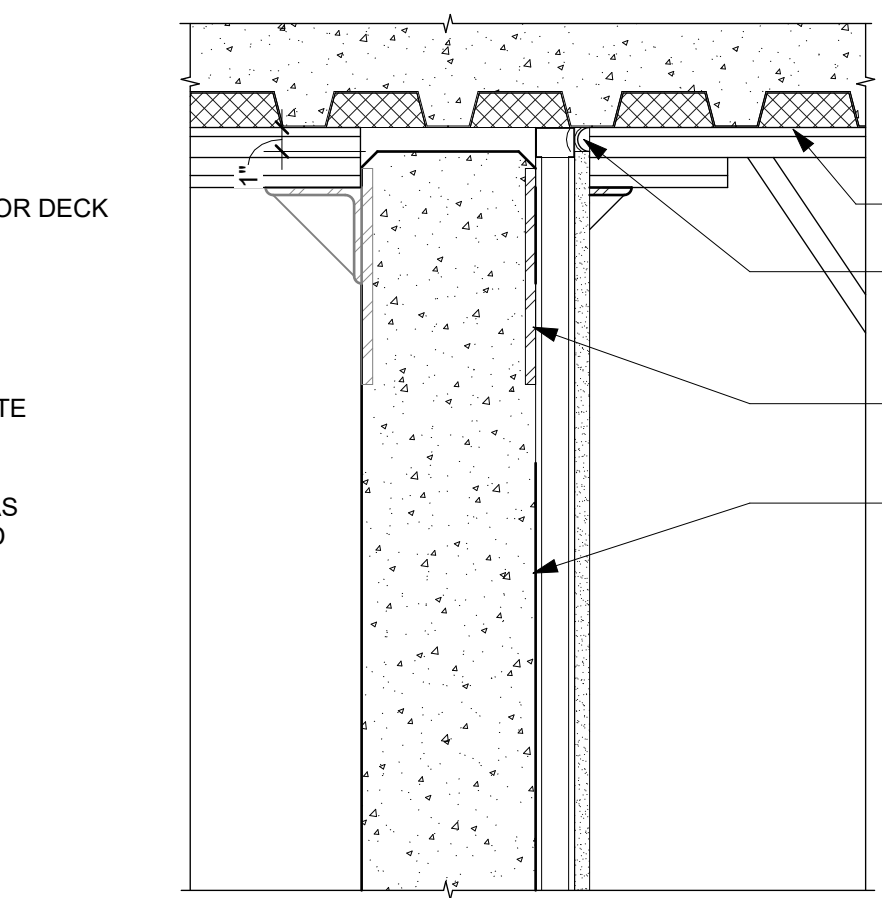
1 1/2" = 1'-0"

FURRING HEAD CONDITIONS



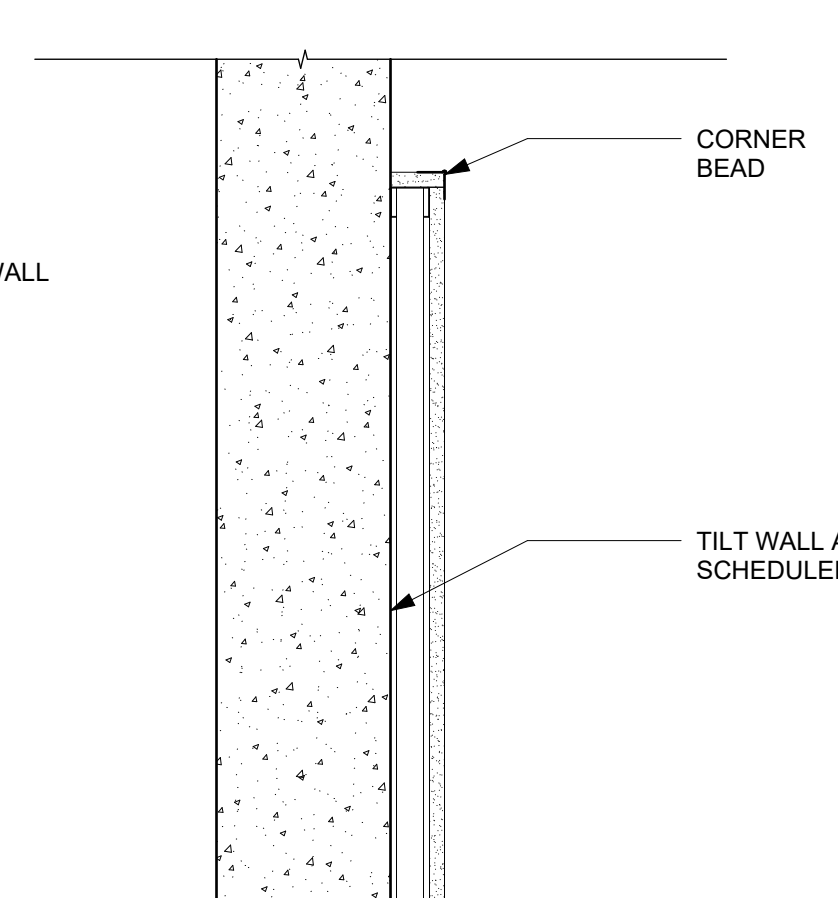
HEAD - FURRING - PERPENDICULAR DECK

1 1/2" = 1'-0"



HEAD - FURRING - PARALLEL DECK

1 1/2" = 1'-0"

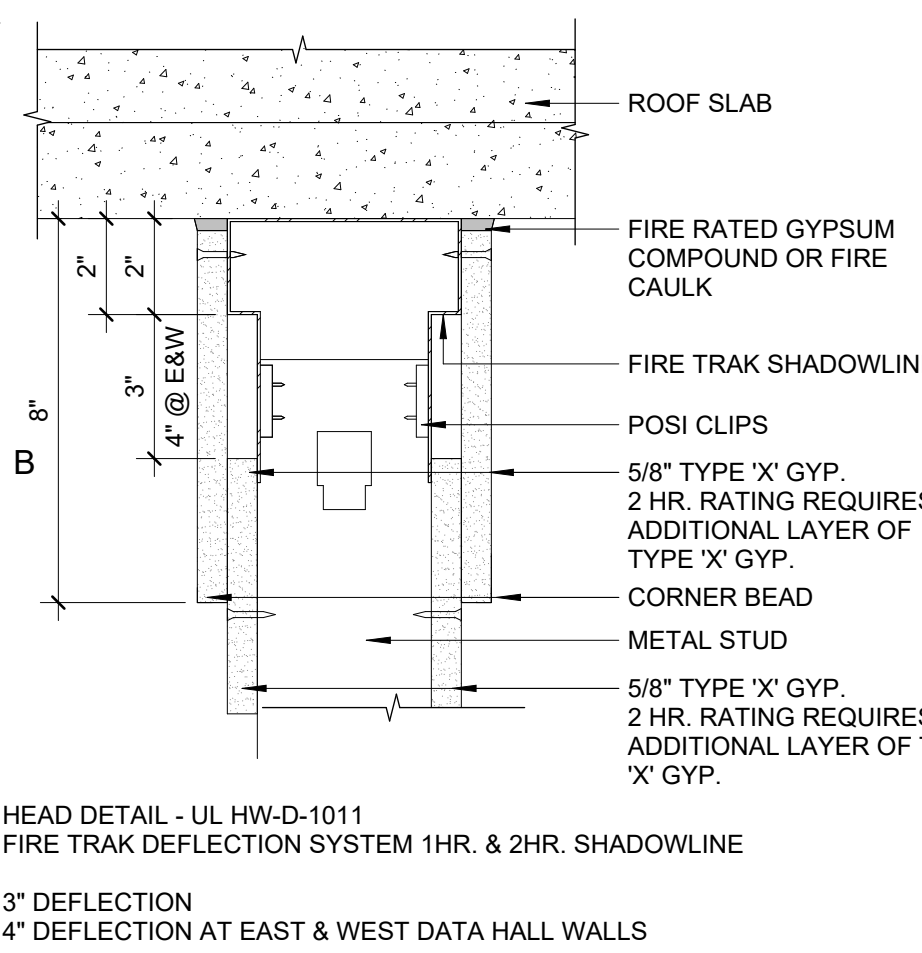


HEAD - FURRING - PARTIAL HEIGHT

1 1/2" = 1'-0"

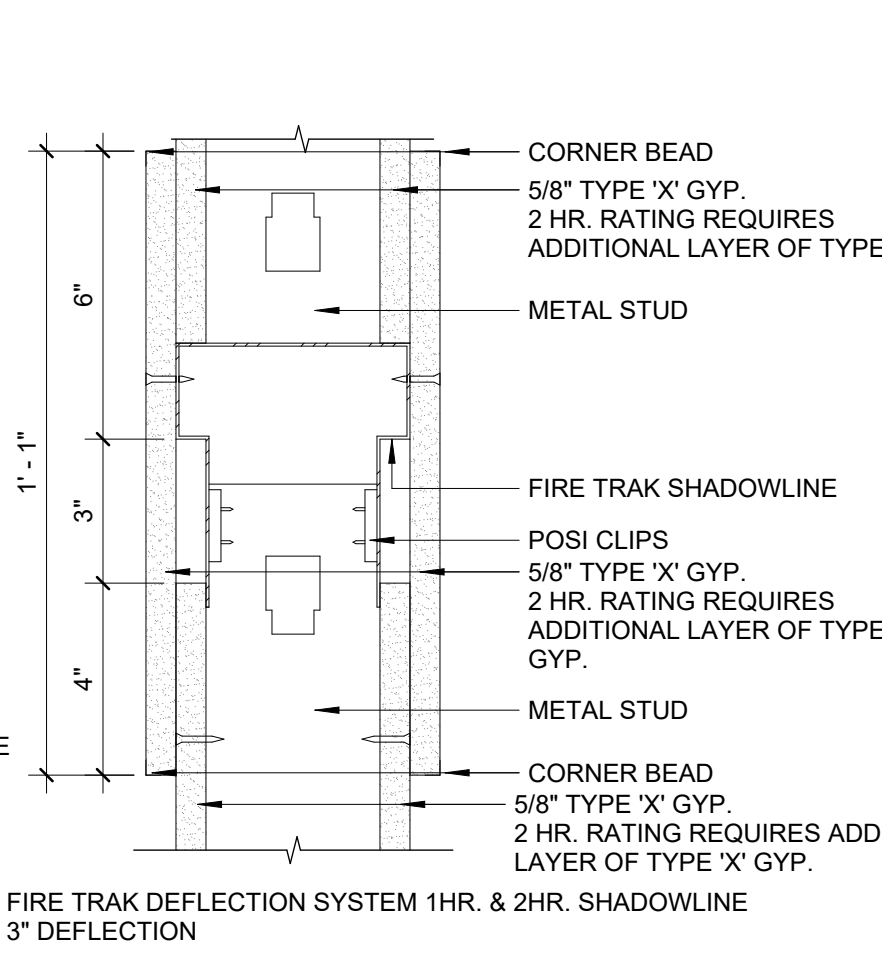
C

HEAD DETAILS



HEAD DETAIL - UL HW-D-1011
FIRE TRAK DEFLECTION SYSTEM 1HR. & 2HR. SHADOWLINE

3" DEFLECTION
4" DEFLECTION AT EAST & WEST DATA HALL WALLS

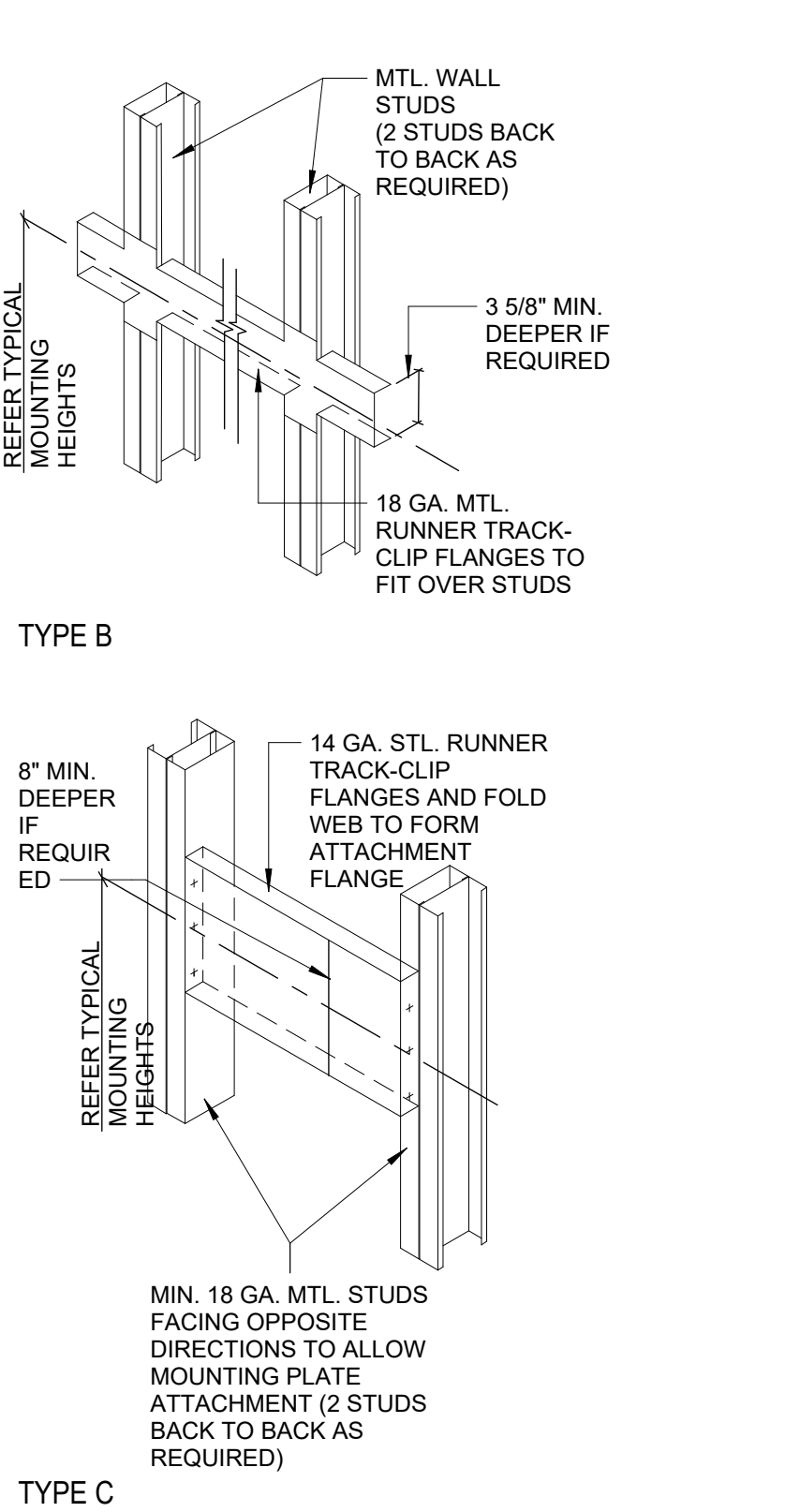


HEAD DETAIL - DEFLECTION TRACK

3" = 1'-0"

A

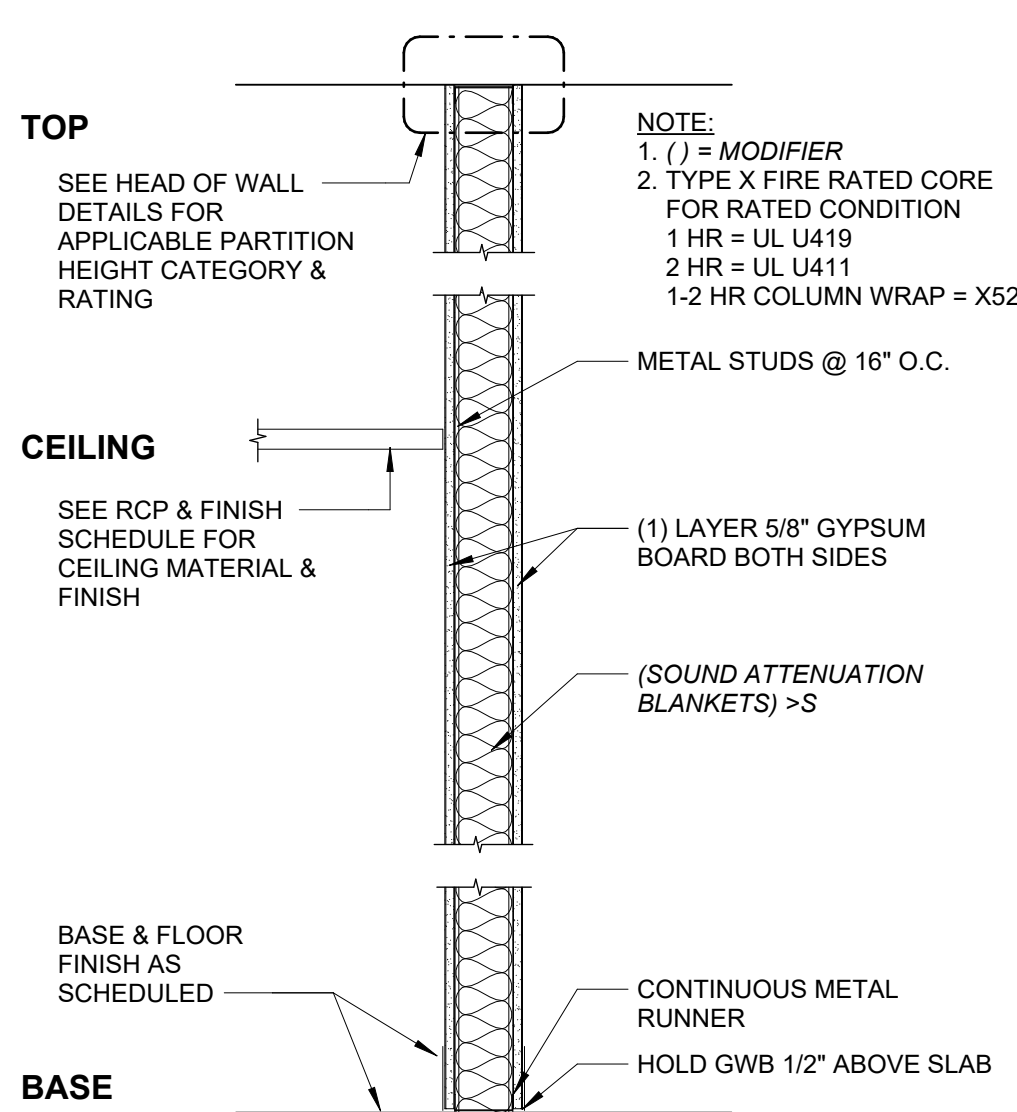
ACCESSORY/EQUIPMENT/KITCHEN BACKING



TYPE B

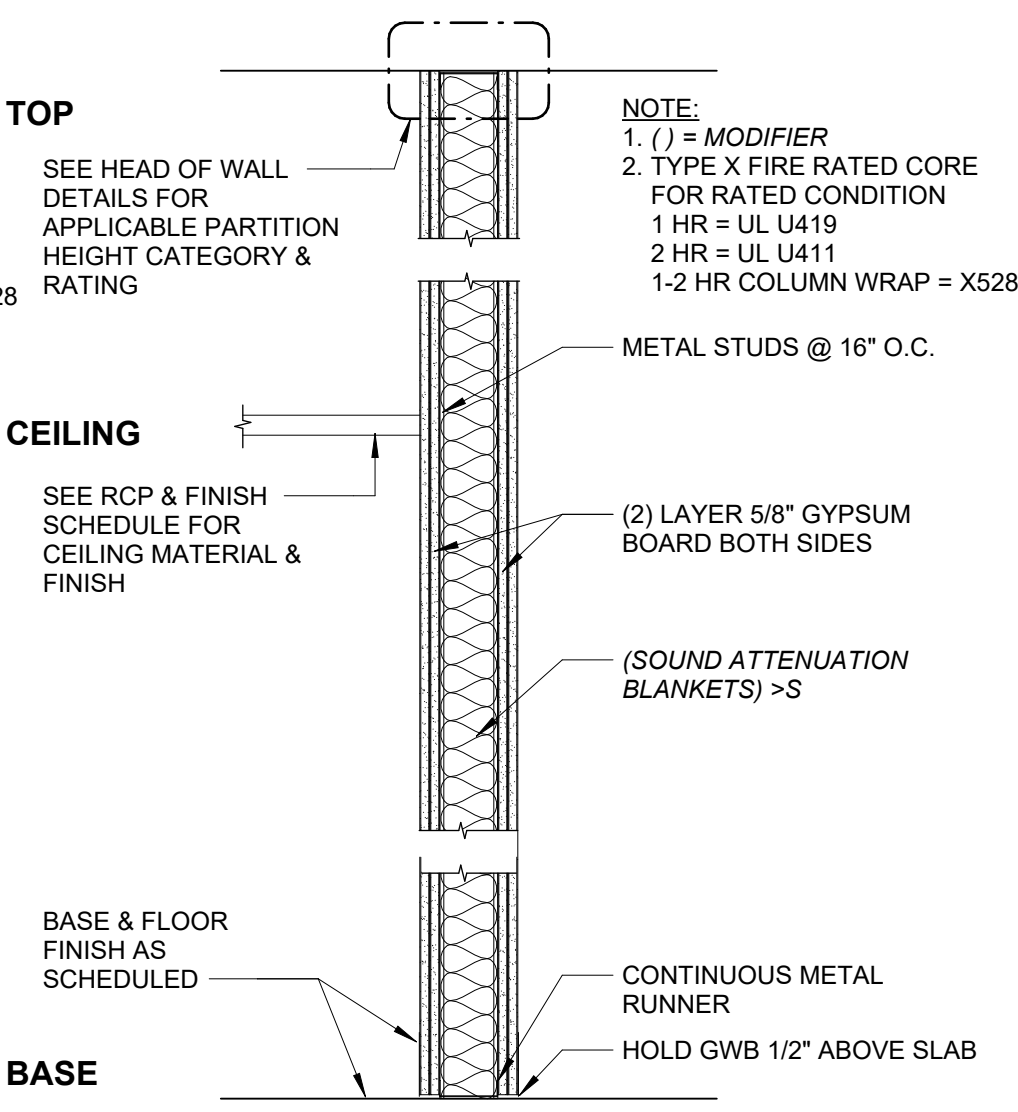
TYPE C

PARTITION TYPES



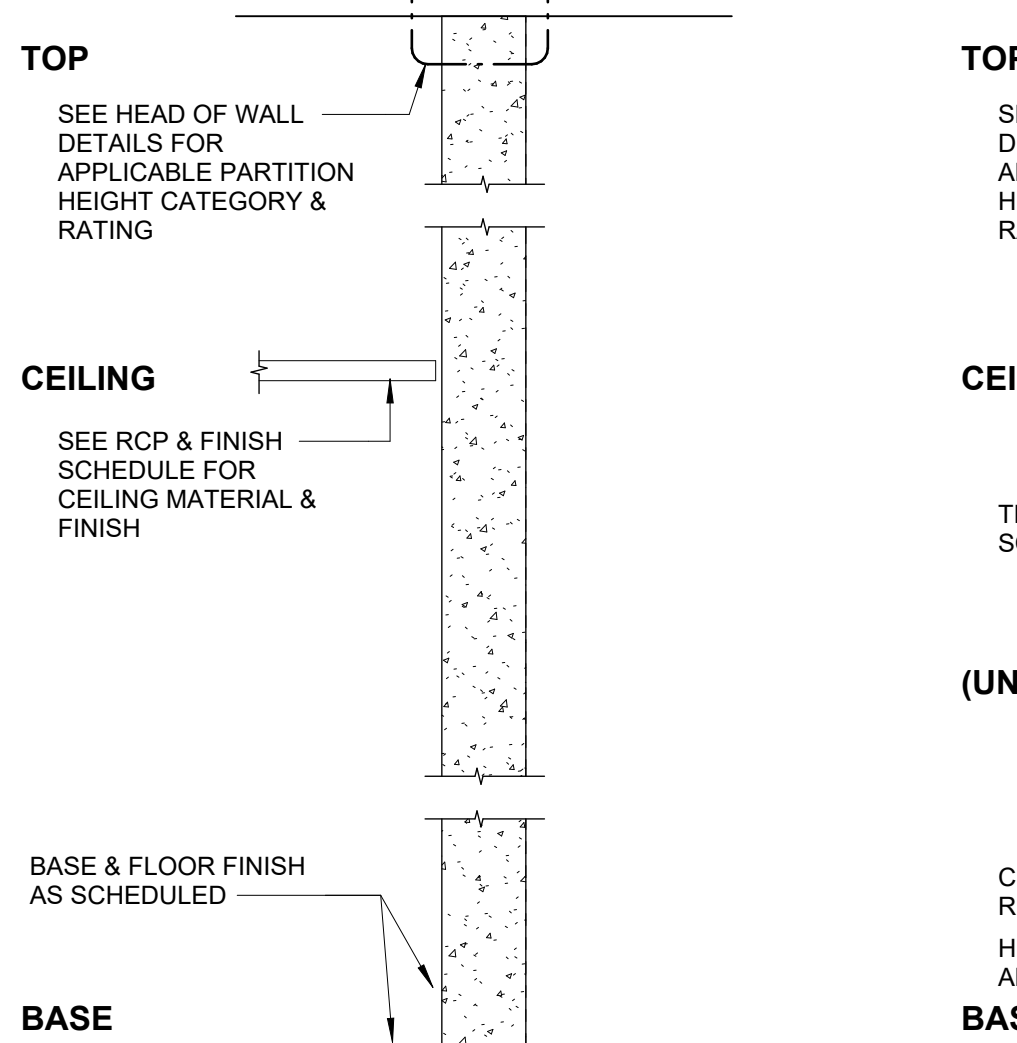
<XGXX> GWB - SLAB TO DECK (0-1HR)

1" = 1'-0"



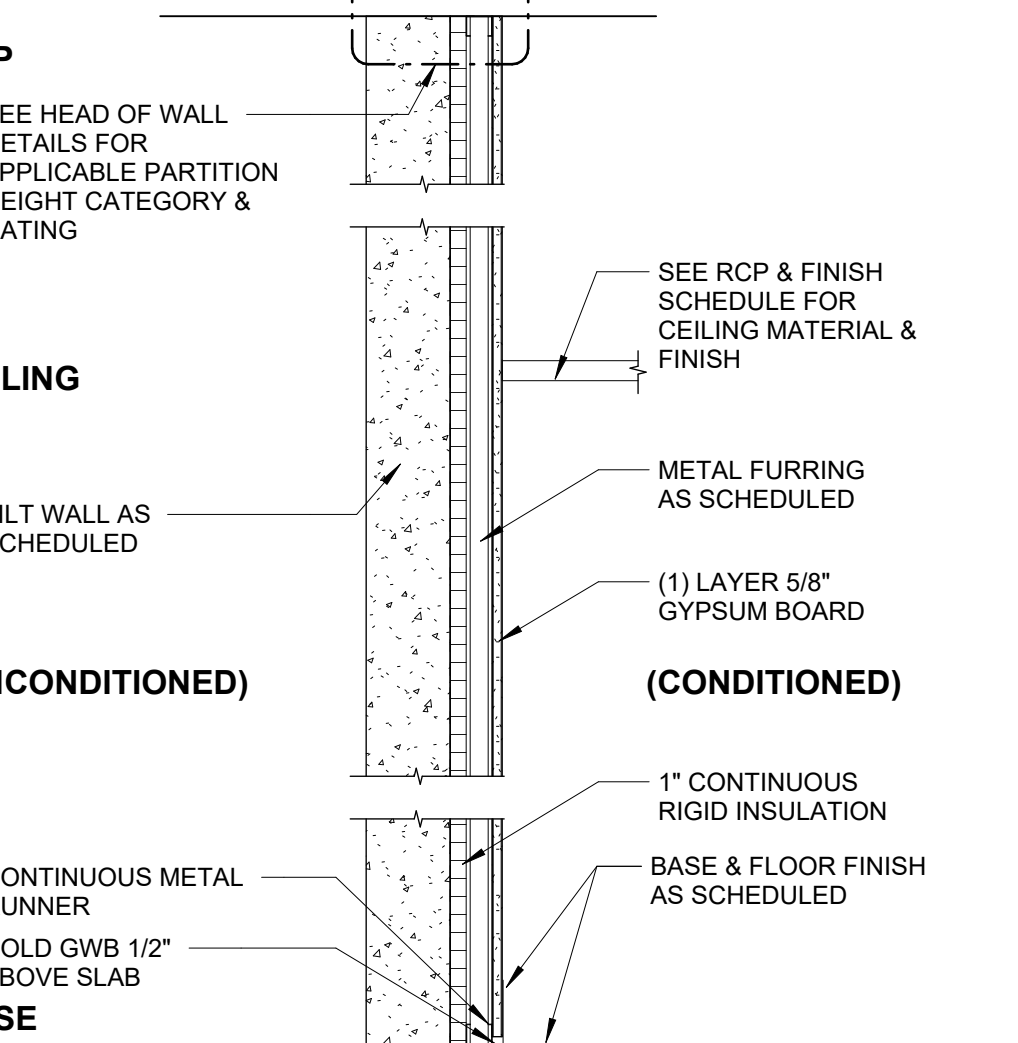
<2GXX> GWB - SLAB TO DECK (2HR)

1" = 1'-0"



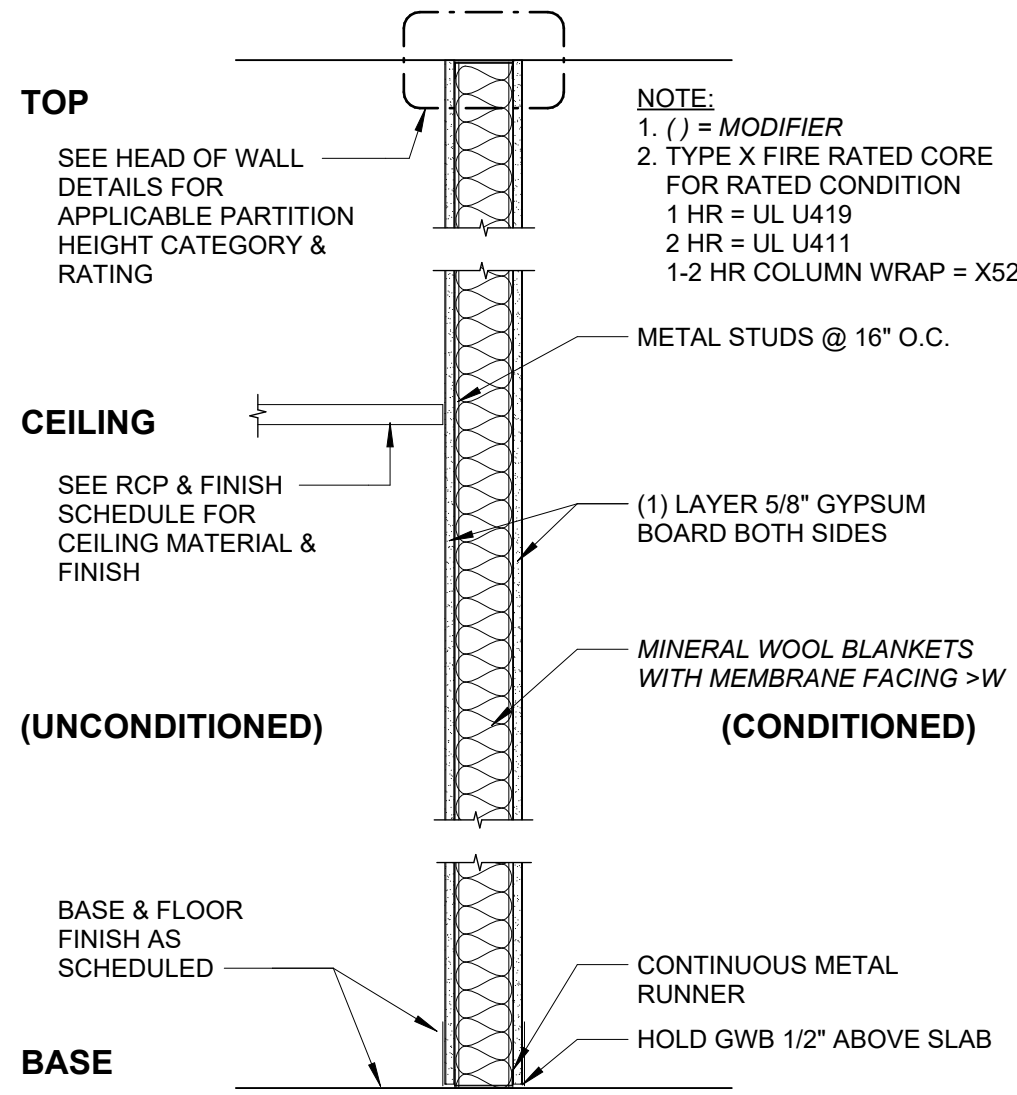
<XTXX> TILT WALL - SLAB TO DECK

1" = 1'-0"



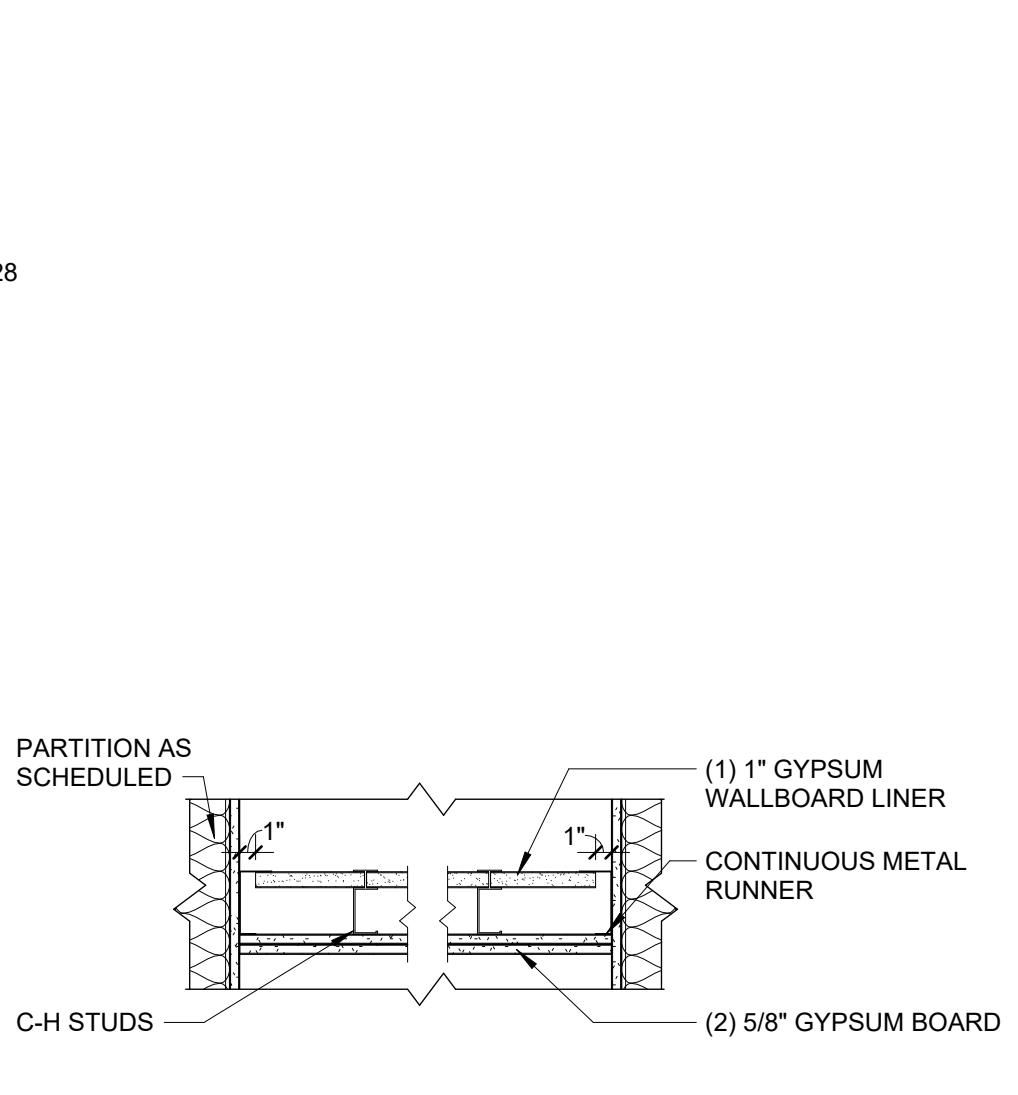
<XXXX>RI FURRING (INSULATED) - SLAB TO DECK

1" = 1'-0"



<XGXX>W GWB - SLAB TO DECK (0-1HR)

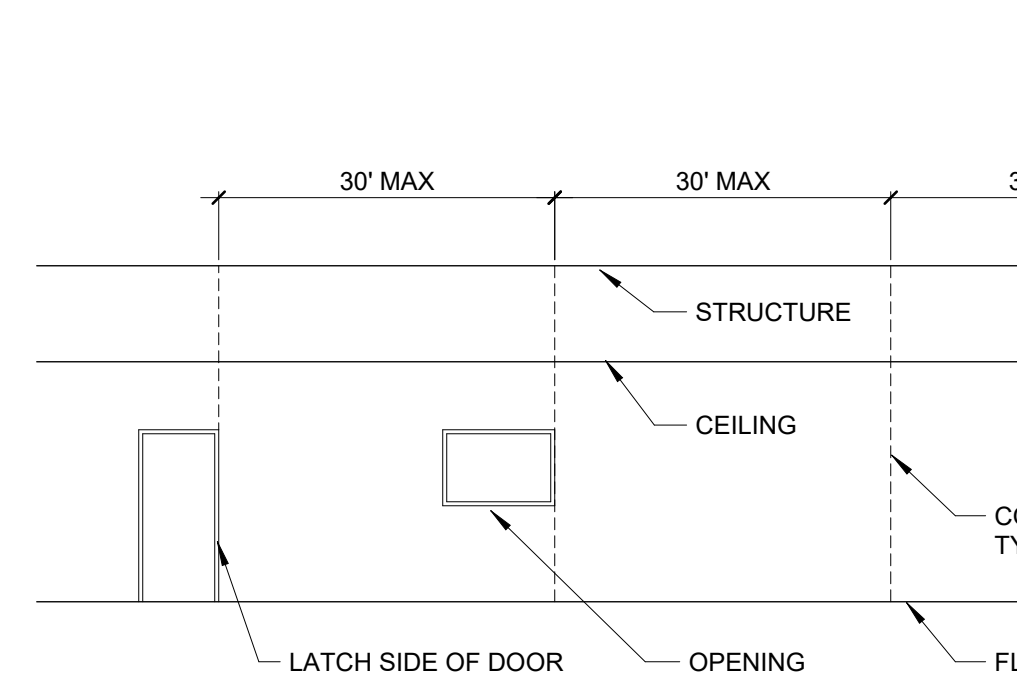
1" = 1'-0"



2HSW - 2HR HORIZONTAL SHAFT WALL (UL U438)

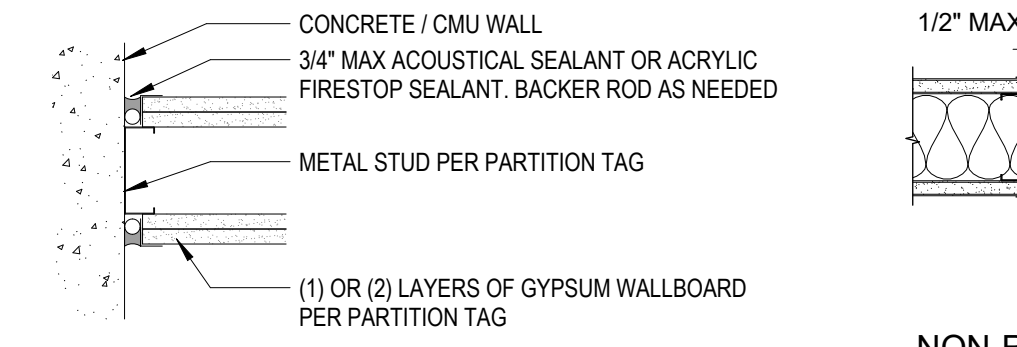
1" = 1'-0"

GWB CONTROL JOINTS



TYPICAL GWB CONTROL JOINT DIAGRAM - ELEVATION

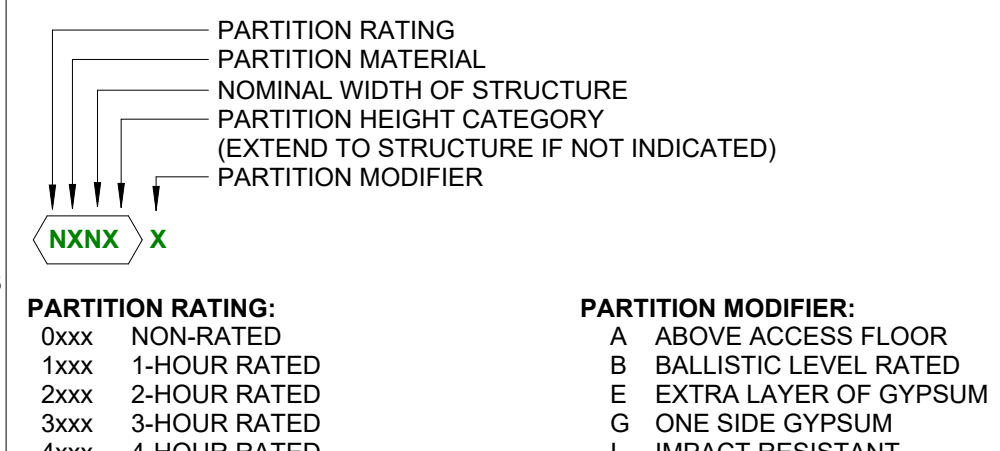
1/8" = 1'-0"



NON-RATED JOINT

RATED JOINT
WH1-647-3024
WH1-651-0318.1

PARTITION LEGEND AND STRUCTURE KEY

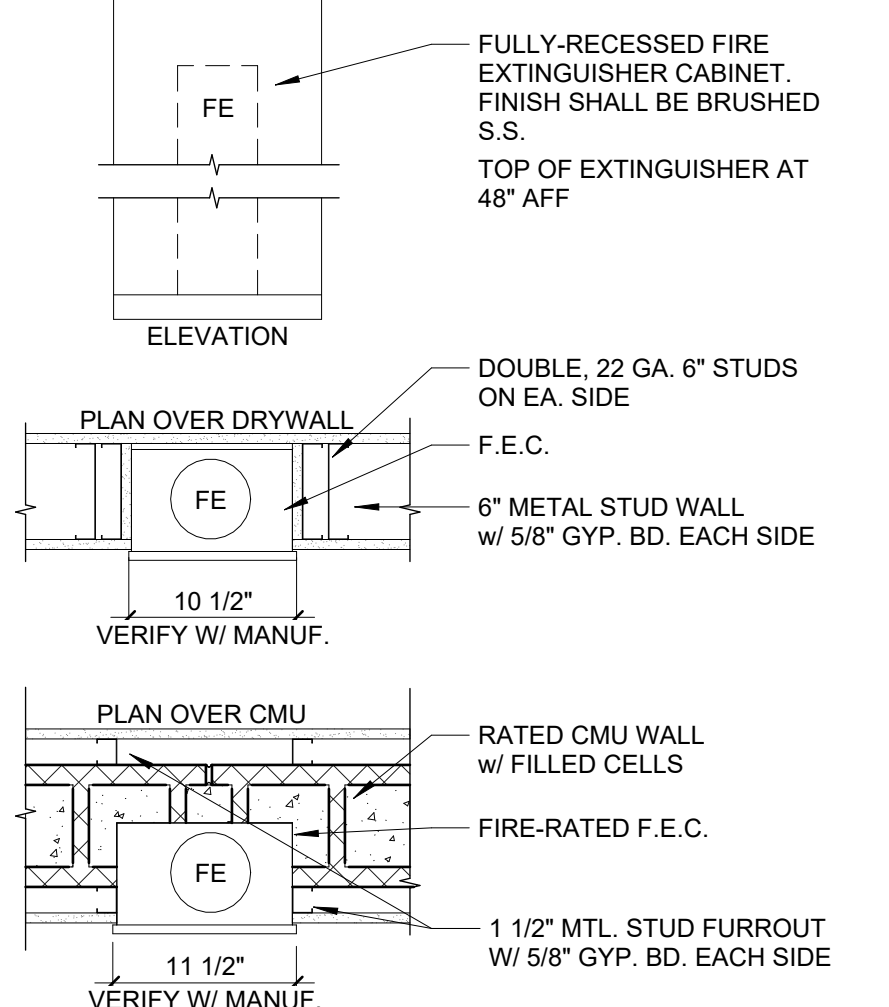


PARTITION RATING:
0xxx NON-RATED
1xxx 1-HOUR RATED
2xxx 2-HOUR RATED
3xxx 3-HOUR RATED
4xxx 4-HOUR RATED
PARTITION CONSTRUCTION:
xPxx FURRING
xGxx GYP / METAL STUD
xSxx SHAPED PARTITION
xMxx MASONRY
xWxx GYP / WOOD STUD
xEXx EXISTING
xTxx TILT WALL
NOMINAL WIDTH OF STRUCTURE:
(SEE PARTITION STRUCTURE KEY BELOW)
PARTITION HEIGHT CATEGORY:
xxxA EXTEND TO STRUCTURE ABOVE
xxxB TERMINATE ABOVE CEILING
xxxC TERMINATE AT CEILING
xxxP PARTIAL HEIGHT PARTITIONS
NON STRUCTURAL METAL FRAMING
xG1x 1-5/8" METAL STUD
xG2x 2-1/2" METAL STUD
xG3x 3-5/8" METAL STUD
xG4x 4" METAL STUD
xG6x 6" METAL STUD
xG8x 8" METAL STUD
METAL FURRING CHANNELS
xF0x 1/2" FURRING CHANNEL
xF1x 7/8" FURRING CHANNEL
xF2x 1-1/2" FURRING CHANNEL
NOTE: FOR SIZES ABOVE xF2x USE NON-STRUCTURAL METAL FRAMING ATTACHED TO SUBSTRATE
NON STRUCTURAL SHAFT FRAMING
xS2x 2-1/2" C-H STUD W/ 1" GYP SHAFT LINER
xS4x 4" C-H STUD W/ 1" GYP SHAFT LINER
xS6x 6" C-H STUD W/ 1" GYP SHAFT LINER

PARTITION MODIFIER:
A ABOVE ACCESS FLOOR
B BALLISTIC LEVEL RATED
E EXTRA LAYER OF GYPSUM
G ONE SIDE GYPSUM
I IMPACT RESISTANT
K SMOKE RATED
M METAL PANEL
O MOVABLE PARTITION (OPERABLE)
R MOISTURE RESISTANT
S SOUND ATTENUATION BATTS
V VAPOR BARRIER
U UNINSULATED
Z ACCENT WALL (SEE INTERIOR DETAILS)
W MINERAL WOOL INSULATION
RI RIGID INSULATION

CONCRETE MASONRY UNIT (CMU)
xM4x 4" CMU
xM6x 6" CMU
xM8x 8" CMU
xM12x 12" CMU
WOOD FRAMING
xW4x 2x4 WOOD FRAMING
xW6x 2x6 WOOD FRAMING
xW8x 2x8 WOOD FRAMING
STRUCTURAL TILT PANEL
xT8x 7-1/2" TILT PANEL
xT12x 11-1/2" TILT PANEL

FIRE EXTINGUISHER CABINET



NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.

GENERAL NOTES - PARTITIONS

- FIRE- AND SMOKE-RATED PARTITION ASSEMBLIES CONTINUE TO STRUCTURE ABOVE HEAD CONDITION "A" UNLESS NOTED OTHERWISE, OR UNLESS OTHERWISE INDICATED BY THE CORRESPONDING FIRE RATED ASSEMBLY DIAGRAM.
- PROVIDE ACOUSTICAL CAULKING AROUND ALL PERIMETERS EDGES AND PENETRATIONS AT SOUND-INSULATED WALLS. OFFSET ELEC. AND TELEPHONE OUTLETS 16" MIN (SEPARATE STUD CAVITIES) AT SOUND INSULATED WALLS. PROVIDE ACOUSTICAL CAULKING AROUND ALL PERIMETERS EDGES AND PENETRATIONS.
- WALLS ARE DIMENSIONED TO FINISH FACE OF WALL, UNLESS INDICATED OTHERWISE. DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF FINISH.
- WHERE ADJACENT PARTITION TYPES ARE OF DIFFERENT OVERALL THICKNESS, ALIGN FINISHES ON VISIBLE SIDE, AND FURR OPPOSITE SIDE AS REQUIRED FOR A FLUSH INSTALLATION.
- PARTITION TYPES AROUND ROOMS AND SPACES SHALL BE CONTINUOUS AROUND THE ENTIRE SPACE, WHERE MORE THAN ONE PARTITION TYPE IS INDICATED, THE WALL TYPE WITH THE HIGHEST FIRE AND/OR ACOUSTICAL PERFORMANCE SHALL BE USED.
- FIRE STOP ALL PENETRATIONS THROUGH FIRE RATED WALLS TO THE LEVEL OF PROTECTION REQUIRED BY THE WALL. FIRE STOP AT PERIMETERS OF RATED WALLS WHERE VOIDS OCCUR, SUCH AS DECK FLUTES.
- REFER TO THE FINISH SCHEDULE AND/OR FLOOR PLANS FOR LOCATION OF FINISH MATERIALS FOR WALL TYPES INDICATING DIFFERENT FINISHES ON EACH SIDE OF WALL.
- WET WALLS IN TOILET ROOMS TO RECEIVE CERAMIC TILE SHALL USE MOISTURE-RESISTANT FIBERGLASS-MAT GYPSUM BOARD IN PLACE OF GWB.
- WET WALLS IN SHOWER STALLS TO RECEIVE CERAMIC TILE SHALL USE CEMENTITIOUS BACKER BOARD IN PLACE OF GWB.
- BRACE ALL CHASE WALLS FROM STUD TO STUD AT 4" OC MIN. VERTICAL AND PER MANUFACTURER'S RECOMMENDATION UNLESS NOTED OTHERWISE.
- PROVIDE STEEL STUD GAUGES AND/OR DIAGONAL BRACING AT TOPS OF WALLS PER MANUFACTURER'S RECOMMENDATIONS FOR WALL TYPE, HEIGHT AND USE BASED ON L/240 LIMITING HEIGHTS.
- ALL CORNERS AND EDGES EXPOSED TO VIEW SHALL RECEIVE METAL EDGE BEADS TREATED WITH DRYWALL COMPOUND TO A HEIGHT OF 6" ABOVE FINISHED CEILINGS MIN.
- ALL UL-RATED WALL ASSEMBLIES SHALL BE IDENTIFIED W/ STENCILING ABOVE THE FINISHED CEILING ON BOTH FACES, ON ALL WALLS AS "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS" WITH HOUR RATING INCLUDED. SUCH IDENTIFICATION SHALL BE LOCATED WITHIN 15" OF THE END OF EACH WALL, AT INTERVALS NOT TO EXCEED 30'. LETTERING NOT LESS THAN 3" IN HEIGHT WITH MIN 3/8" STROKE IN CONTRASTING COLOR.
- ALL MATERIALS USED IN RATED ASSEMBLIES SHALL CONFORM TO REFERENCED STANDARDS.
- USE MOISTURE - AND MOLD - RESISTANT GWB ON INTERIOR SIDE OF MECHANICAL ROOM WALLS.
- PROVIDE CONTINUOUS HORIZONTAL BRIDGING FOR WALLS EXTENDING 10'-0" OR GREATER IN HEIGHT FROM FINISH FLOOR.

LIMITING HEIGHTS - STEEL STUDS

	DEFLECTION LIMIT OF L/240	DEFLECTION LIMIT OF L/360
WALL HEIGHT	WITHOUT SHELVING	WITH SHELVING
<10'	362S125-18 16" O.C.	362S125-18 16" O.C.
<12'	362S125-18 16" O.C.	362S125-18 16" O.C.
<14'	362S125-18 16" O.C.	362S125-18 16" O.C.
<16'	362S125-33 16" O.C.	362S125-33 16" O.C.
<18'	362S125-43 16" O.C.	362S125-43 16" O.C.
<20'	362S125-68 16" O.C.	362S125-68 16" O.C.

NOTES:
1. DESIGN LATERAL LOAD OF 5 PSF, AND NO VERTICAL LOAD (NON-LOAD-BEARING).
2. DEFLECTION LIMIT OF L/360 SHALL BE USED FOR BRITTLE WALL FINISHES, SUCH AS TILE, TERRAZO, AND PLASTER. DEFLECTION LIMIT OF L/240 MAY BE USED FOR ALL OTHER CONDITIONS.
3. "WITH SHELVING" DESIGN FOR 16" SHELVING UNIT. LOAD OF 73 POUNDS PER LINEAR FOOT INCLUDING CONTENTS, CENTERED 8" FROM FACE OF WALL, FOR ONE ROW OF SHELVING ROUGHLY 4' A.F.F.

MEMBER WEB DEPTH
(6" = 600 x 1/100")
FLANGE WIDTH
(1-5/8" = 1.625" = 162 x 1/100")
600 (S) (162) - (64)

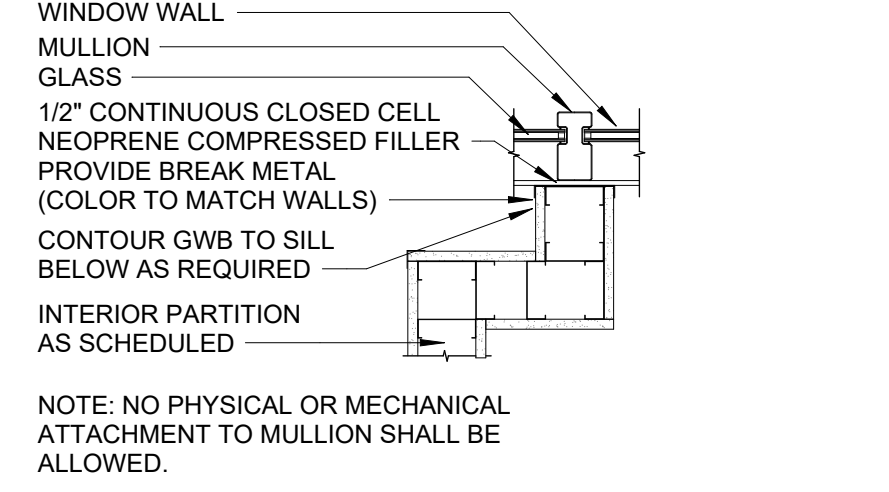
STYLE
S = STUD OR JOIST SECTION
T = TRACK SECTIONS
U = CHANNEL SECTIONS
F = FURRING CHANNEL SECTIONS

MIL THICKNESS
(.054" = 54 MILS; 1 MIL = 1/1000")
18 MIL = 25 GA
27 MIL = 22 GA
30 MIL = 20 GA (DRYWALL)
33 MIL = 20 GA (STRUCTURAL)
43 MIL = 18 GA
54 MIL = 16 GA
68 MIL = 14 GA

VERIFY WITH STRUCTURAL

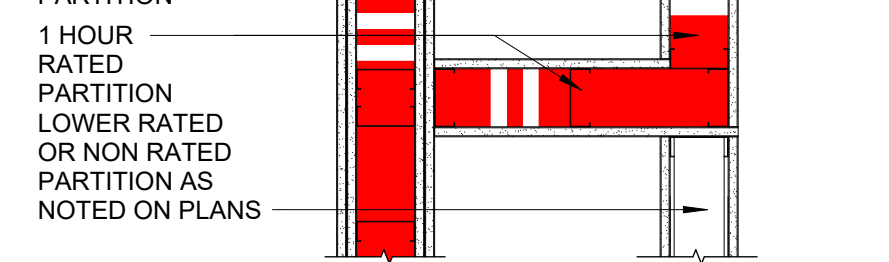
PARTITION HIERARCHY

PARTITION TO MULLION



NOTE: NO PHYSICAL OR MECHANICAL ATTACHMENT TO MULLION SHALL BE ALLOWED.

RATING HIERARCHY

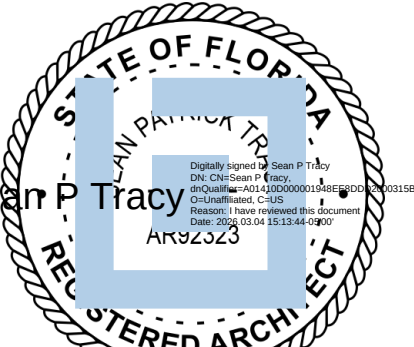


LITTLE
DIVERSIFIED ARCHITECTURAL CONSULTING

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ISSUE FOR
CONSTRUCTION DOCUMENTS

ISSUE DATE
02/25/2026

REVISIONS
NO. REASON DATE

PROJECT NAME
COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING C - VEHICLE MAINTENANCE GARAGE

PROJECT NO.
814C632800

SHEET TITLE
PARTITION TYPES AND DETAILS

SHEET NUMBER
C-G121

PROJECT MANAGER
BENJAMIN BOYLES

DESIGN TEAM
ORL-COMMUNITY

PERSONAL IN CHARGE
SEAN TRACY

PROJECT NO.
814C632800

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SEAN TRACY

PROJECT NO.
814C632800

SHEET TITLE
PARTITION TYPES AND DETAILS

SHEET NUMBER
C-G121

UL U419 - FIRE-RESISTANCE RATINGS

Product IQ®

Design/System/Construction/Assembly Usage Disclaimer

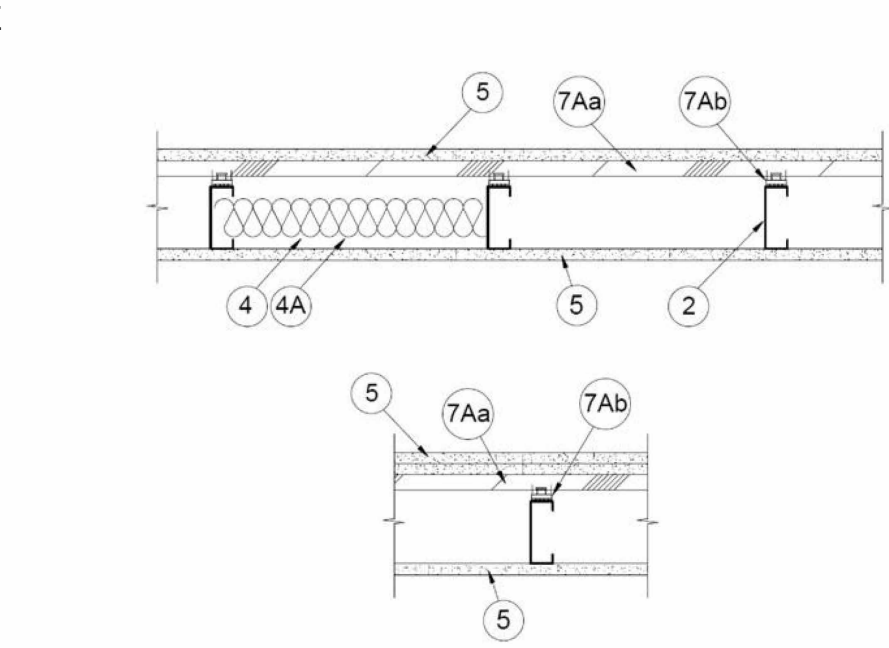
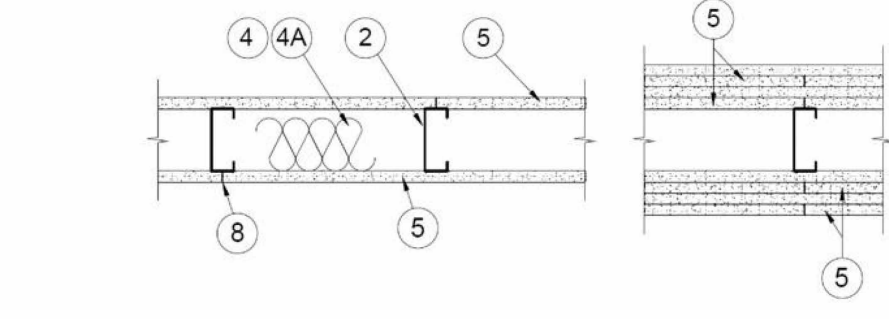
Authorities having jurisdiction should be consulted in all cases as to the particular requirements concerning the installation and use of UL Certified products, equipment, systems, devices, and materials. Authorities having jurisdiction should be consulted before construction. Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always identify every construction nuance encountered in the field. When field issues arise, it is recommended that the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide information for each product category and each group of assemblies. The Guide information includes specific concerning alternate materials and alternate methods of construction. Only products which bear UL's Mark are considered Certified.

XLVU - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
XLVUT - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variations
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variations

Design No. U419

December 15, 2025

Nonbearing Wall Studs - 1, 2, 3, or 4 in. (See Items 4 & 5 through 5)
*** Indicates each product shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (Such as Canada), respectively.**



1. Floor and Ceiling Runners - (Not Shown) - For use with Item 2 - Channel shaped, fabricated from min 25 MS60 corrosion-protected steel, min depth to accommodate stud size, with min 1/4 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.

18. Framing Members* - Floor and Ceiling Runner - (Not Shown) - In lieu of Item 1 - For use with Item 28, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CEMCO, LLC - Viper25™ Track
CRACO MFG INC - SmartStud25™
MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track
IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

18. Framing Members* - Floor and Ceiling Runner - (Not Shown) - In lieu of Item 1 - For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC - Viper25™ Track
MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper25™ Track
IMPERIAL MANUFACTURING GROUP INC - Viper25™ Track

1C. Framing Members* - Floor and Ceiling Runners - (Not Shown) - In lieu of Item 1 - Channel shaped, attached to floor and ceiling with fasteners spaced 24 in. OC max.
ALLISTE & O'NEAL PRODUCTS INC - Type SUPREME D24/30/60 and Type SUPREME D20
CONSOLIDATED FABRICATORS CORP., BUILDING PRODUCTS DIV - Type SUPREME D24/30/60 and Type SUPREME D20

QUAIL RAIL BUILDING MATERIALS INC - Type SUPREME D24/30/60 and Type SUPREME D20
SCAFCO STEEL BUILDING MANUFACTURING CO - Type SUPREME D24/30/60 and Type SUPREME D20
STEEL CONSTRUCTION SYSTEMS INC - Type SUPREME D24/30/60 and Type SUPREME D20
UNITED INDUSTRIES L.L.C. - Type SUPREME D24/30/60 and Type SUPREME D20

20. Framing Members* - Steel Studs - (Not Shown) - In lieu of Item 2 - Proprietary channel shaped steel studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in. less than assembly height.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

1C. Framing Members* - Floor and Ceiling Runners - (Not Shown) - In lieu of Item 1 - Channel shaped, fabricated from min 25 MS60 corrosion-protected galv steel, min depth to accommodate stud size, with min 1/4 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Items 26, 5F or 5I or 5J only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProTRAK
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProTRAK
THE MILL STEEL COMPANY - ProTRAK

1C. Framing Members* - Floor and Ceiling Runner - (Not Shown) - In lieu of Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runner - (Not Shown) - In lieu of Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

18. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, proprietary channel shaped runners, minimum width to accommodate stud size, with 1/8 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CLARKDITTRICH BUILDING SYSTEMS - CROSTUD
DAVIDOWS L.L.C. - ProSTUD
MFA METAL FABRICATING - ProTRAK
RMA SALES L.L.C. - Ram ProSTUD
STEEL STRUCTURAL PRODUCTS L.L.C. - Tri-S ProSTUD
THE MILL STEEL COMPANY - ProSTUD

IRONLINE METALS LLC - Bantam Stud

3. Wood Structural Panel Sheathing - (Optional, for use with Item 2 Only) - (Not Shown) - 4 in. wide, 7/16 in. thick oriented strand board (OSB) or 19/32 in. thick structural sheathing (gypsum) complying with DCC H1 or F12, or APA Standard PS9-10L, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered over studs, and staggered one stud space from wallboard joints. Attached to studs with self-drilling tapping screws with a min. head diam. of 0.293 in. (min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CEMCO, LLC - Viper X Track

4. Bolts and Blankets* - (Required as indicated under Item 5) - Mineral wool bolts, friction fitted between studs and runners. Min. non-inches as indicated under Item 5.

See Bolts and Blankets (BKN or BZJ) Categories for names of Classified companies.

4A. Bolts and Blankets* - (Optional - as an alternate to Item 4) - Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as a Floor-Building Characteristics and/or Fire Resistance.

See Bolts and Blankets (BKN or BZJ) Categories for names of Classified companies.

4B. Fiber, Sprayfoam* - (Optional - as an alternate for Item 4 or 4A, for use with Item 10B) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 lb/cu ft to completely fill the stud cavity in accordance with the application instructions supplied with the product, **Self-Fill, Sprayfoam (CCZ).**

4C. Foamed Plastic* - (As an alternate for Item 4A or 4A, for use with Item 5K) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2-hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 32 MS60 steel thickness.

CARLISLE SP-FOAM INSULATION - Type SealTite One, SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OC, SealTite Pro 1m 1m, SealTite Pro One Zero, Foamulose Closed Cell, Foamulose CCX, Foamulose 70, and Foamulose HFC

4D. Foamed Plastic* - (As an alternate for Item 4, 4A or 4A, for use with Item 5K) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2-hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MS60 steel thickness.

4E. Foamed Plastic* - (As an alternate to Item 4 for use with Item 5J) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2-hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MS60 steel thickness.

4F. Foamed Plastic* - (As an alternate to Item 4 for use with Item 5K) - Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2-hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MS60 steel thickness.

5. Gypsum Board* - Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite side of studs. Vertical joints in adjacent bays (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite side of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent bays (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent bays (multilayer systems) with Type LUX need not be staggered. The thickness and number of layers for the 1/2, 3/4, 3/8, 3/4 and 4/8 ratings are as follows:

Gypsum Board Protection on Each Side of Wall			
Rating, Hr	Min Stud Depth, In.	No. of Layers & Thickness of Panel	Min Thickness of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	1-5/8	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CEMCO INC - Type SCX, LUX
THE SIAM GYPSUM INDUSTRY (SONGKHA) CO - Type SCX, LUX
UNITED STATES GYPSUM CO - Type SCX, LUX
USG BORAL DRYWALL SZ LUX - Type SCX, LUX
USG MEXICO S A DE C V - Type SCX, LUX

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

horizontal butt joints on opposite side of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent bays (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2, 3, 3/4 and 4 ratings are as follows:

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

CEMCO INC - Type SCX, LUX
THE SIAM GYPSUM INDUSTRY (SONGKHA) CO - Type SCX, LUX
UNITED STATES GYPSUM CO - Type SCX, LUX
USG BORAL DRYWALL SZ LUX - Type SCX, LUX
USG MEXICO S A DE C V - Type SCX, LUX

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Steel Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - Resilient channels and Steel Framing Members as described below:

a. Resilient Channels - Formed of No. 25 MS60 galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 7B. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 x 1/2 in. Phillips Modified Tude screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 6. Not for use with Items 5B, 5E, 5I, or 5J.

b. Steel Framing Members* - Used to attach resilient channels (Item 7a) to studs. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 1/2 in. coarse drywall screws through the center hole. Resilient channels are friction fitted into clips.

7. Steel Framing Members* - (Optional on one or both sides, not shown, for single or double layer systems) - Resilient channels and Steel Framing Members as described below:

a. Resilient Channels - Formed of No. 25 MS60 galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item 6. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 x 1/2 in. Phillips Modified Tude screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 6. Not for use with Items 5B, 5E, 5I, or 5J.

b. Steel Framing Members* - Used to attach resilient channels (Item 7a) to studs. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 1/2 in. coarse drywall screws through the center hole. Resilient channels are friction fitted into clips.

c. Furring Channels - Formed of No. 25 MS60 galv steel, 2-1/2 in. wide by 7/8 in. deep, spaced max. 24 in. OC, perpendicular to studs. Channels secured to studs as described in Item 6. Gypsum board attached to furring channels as described in Item 6. Not for use with Items 5B, 5E, 5I, or 5J.

d. Steel Framing Members* - Used to attach furring channels (Item 7a) to studs. Clips spaced 48 in. OC, staggered an adjacent furring channels and secured to studs with one No. 8 x 1/2 in. screw and washer through the

UL U411 - FIRE-RESISTANCE RATINGS

Product IQ®

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of the resistance assemblies are advised to consult the general Guide information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

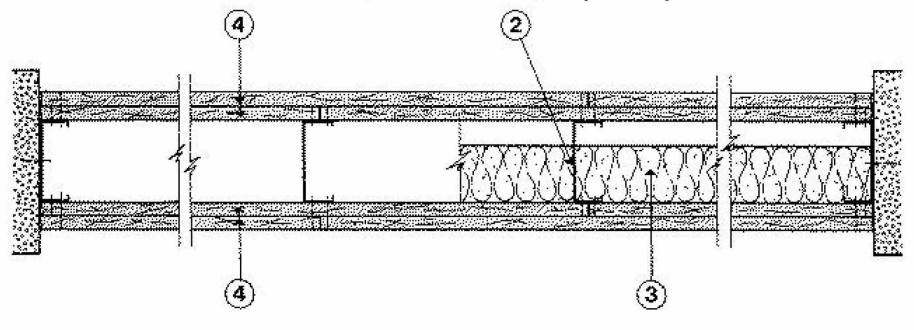
See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variations

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variations

Design No. U411

November 14, 2025

Nonbearing Wall Certification - 2 Hr.
UL Certification (such as Canada), respectively.



1. Floor and Ceiling Runner - (Not Shown) - Min 25 MSG galv steel, 1 in. return legs, 2-1/2 in. deep (min).

attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2A, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC max.

ALISTEEL & GYPSUM PRODUCTS INC - Type SUPREME D24/30EQD and Type SUPREME D20

CEMCO, LLC - Viper20™ Track

CONSOLIDATED FABRICATORS CORP., BUILDING PRODUCTS DIV - Type SUPREME D24/30EQD and Type SUPREME D20

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC - Viper20™ Track

QUAL RUN BUILDING MATERIALS INC - Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME D24/30EQD and Type SUPREME D20

STEL CONSTRUCTION SYSTEMS INC - Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC - Type SUPREME D24/30EQD and Type SUPREME D20

1B. Floor and Ceiling Runners - (Not Shown) - For use with Item 2B - Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1C. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2C, channel shaped, min 2-1/2 in. deep, fabricated from min 0.015 in. thick gwy steel, attached to floor and ceiling with fasteners 24 in. OC max.

CLARKDITCH BUILDING SYSTEMS - CD ProSTUD

DMFCWIS LLC - ProSTUD

MBA METAL FRAMING - ProSTUD

RAM SALES LLC - Rom ProSTUD

STEL STRUCTURAL PRODUCTS LLC - Tri-H ProSTUD

1D. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2D, channel shaped, min 2-1/2 in. wide, fabricated from min 0.018 in. thick gwy steel, attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES LLC - TRUE-Track™

1E. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2E, channel shaped, min 2-1/2 in. wide, fabricated from min 25 MSG steel, attached to floor and ceiling with fasteners 24 in. OC max.

CEB (HONG KONG) LTD - Type KIBI

1F. Floor and Ceiling Runners - (Not Shown) - Channel shaped, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below, attached to floor and ceiling with fasteners spaced max 24 in. OC.

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track V100

IMPERIAL MANUFACTURING GROUP INC - Viper20™ Track

1G. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2G, channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC max.

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™ Track

1H. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2H, Channel shaped, attached to floor and ceiling with fasteners 24 in. OC max.

BAILEY METAL PRODUCTS LTD - Type PLATINUM PLUS

1I. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2I, channel shaped, min 2-1/2 in. wide, fabricated from min 0.018 in. thick gwy steel, attached to floor and ceiling with fasteners 24 in. OC max.

RESCUE METAL FRAMING, LLC - AlphaTRAK

1J. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2J, channel shaped, min 2-1/2 in. deep, formed of min 25 MSG (0.018 in. min. bore metal thickness), attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC - Viper X

1K. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2K, channel shaped, min 2-1/2 in. deep, formed of min 25 MSG (0.018 in. min. bore metal thickness), attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC - Viper X

1L. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2L, channel shaped, min 2-1/2 in. deep, formed of min 25 MSG (0.018 in. min. bore metal thickness), attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC - Viper X

1M. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2M, channel shaped, min 2-1/2 in. deep, formed of min 25 MSG (0.018 in. min. bore metal thickness), attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC - Viper X

1N. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2N, channel shaped, min 2-1/2 in. deep, formed of min 25 MSG (0.018 in. min. bore metal thickness), attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC - Viper X

1O. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2O, channel shaped, min 2-1/2 in. deep, formed of min 25 MSG (0.018 in. min. bore metal thickness), attached to floor and ceiling with fasteners 24 in. OC max.

CEMCO, LLC - Viper X

CEMCO, LLC - Viper X Track

1L. Framing Members* - Floor and Ceiling Runners - (Not Shown) - As an alternate to Item 1 - For use with Item 2L, Channel shaped, min 2-1/2 in. deep, attached to floor and ceiling with fasteners 24 in. OC max.

ALISTEEL & GYPSUM PRODUCTS INC - Type SUPREME D25

CONSOLIDATED FABRICATORS CORP., BUILDING PRODUCTS DIV - Type SUPREME D25

QUAL RUN BUILDING MATERIALS INC - Type SUPREME D25

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME D25

STEL CONSTRUCTION SYSTEMS INC - Type SUPREME D25

TELLING INDUSTRIES LLC - Type SUPREME D25

UNITED METAL PRODUCTS INC - Type SUPREME D25

1M. Floor and Ceiling Runner - (Not Shown) - As an alternate to Item 1, For use with Items 2D and 4D - Min 25 MSG galv steel, 1-5/8 in. deep (min), attached to floor and ceiling with fasteners 24 in. OC max.

1N. Framing Members* - Floor and Ceiling Runner - Not Shown - In lieu of Item 1 - For use with Item 2N, proprietary channel shaped studs, min 1-1/4 in. wide by min 2-1/2 in. deep fabricated from min 0.019 in. thick gwy steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

PANEL KEY 5 A - SUPRA Track 28EQD/9 mil

2. Steel Studs - Min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2A. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALISTEEL & GYPSUM PRODUCTS INC - Type SUPREME D24/30EQD and Type SUPREME D20

CEMCO, LLC - Viper20™

CONSOLIDATED FABRICATORS CORP., BUILDING PRODUCTS DIV - Type SUPREME D24/30EQD and Type SUPREME D20

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™

IMPERIAL MANUFACTURING GROUP INC - Viper20™

QUAL RUN BUILDING MATERIALS INC - Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO - Type SUPREME D24/30EQD and Type SUPREME D20

STEL CONSTRUCTION SYSTEMS INC - Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES LLC - Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC - Type SUPREME D24/30EQD and Type SUPREME D20

2B. Steel Studs - (As an alternate to Item 2 - For use with Item 4D, 4H, and 4J) - Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

CLARKDITCH BUILDING SYSTEMS - CD ProSTUD

DMFCWIS LLC - ProSTUD

MBA METAL FRAMING - ProSTUD

RAM SALES LLC - Rom ProSTUD

STEL STRUCTURAL PRODUCTS LLC - Tri-H ProSTUD

2C. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. wide, fabricated from min 0.015 in. thick gwy steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDITCH BUILDING SYSTEMS - CD ProSTUD

DMFCWIS LLC - ProSTUD

MBA METAL FRAMING - ProSTUD

RAM SALES LLC - Rom ProSTUD

STEL STRUCTURAL PRODUCTS LLC - Tri-H ProSTUD

2D. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 2D, channel shaped studs, min 2-1/2 in. wide, fabricated from min 0.018 in. thick gwy steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDITCH BUILDING SYSTEMS - CD ProSTUD

DMFCWIS LLC - ProSTUD

MBA METAL FRAMING - ProSTUD

RAM SALES LLC - Rom ProSTUD

STEL STRUCTURAL PRODUCTS LLC - Tri-H ProSTUD

2E. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™

2F. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC - Viper20™

2G. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES LLC - TRUE-Track™

2H. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

BAILEY METAL PRODUCTS LTD - Type PLATINUM PLUS

2I. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

RESCUE METAL FRAMING, LLC - AlphaSTUD

2J. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2K. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2L. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2M. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2N. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2O. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2P. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, formed of min 25 MSG galv steel max stud spacing 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2H. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2I. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2J. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2K. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2L. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2M. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2N. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2O. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2P. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2Q. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2R. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2S. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2T. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2U. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2V. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2W. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2X. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2Y. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

2Z. Framing Members* - Steel Studs - As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 2-1/2 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CEMCO, LLC - Viper X

3. Bolts and Blankets* - (Optional) - Mineral wool or glass fiber bolts partially or completely filling stud cavity. See Bolts and Blankets (8322) category for names of manufacturers.

ROCKWOOL - Type AFR, min. density 169 pcf / 274 kg/m³

ROCKWOOL/MALAYSIA SDN BHD - Type Acoustical Fire Batts

3A. Fiber, Sprayed* - As an alternate to Bolts and Blankets (Item 3) - (100% Borate Formulation) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product.

Applegate Greenfiber Acquisition LLC - Insulation and SANCTUARY for use with wet or dry application.

3B. Fiber, Sprayed* - As an alternate to Bolts and Blankets (Item 3) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft³.

INTERNATIONAL CELLULOSE CORP - Celowool®

3C. Fiber, Sprayed* - As an alternate to Bolts and Blankets (Item 3) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft³.

INTERNATIONAL CELLULOSE CORP - Celowool®

3D. Fiber, Sprayed* - As an alternate to Bolts and Blankets (Item 3) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lb/ft³.

UL X528 - FIRE-RESISTANCE RATINGS

Product IQ®

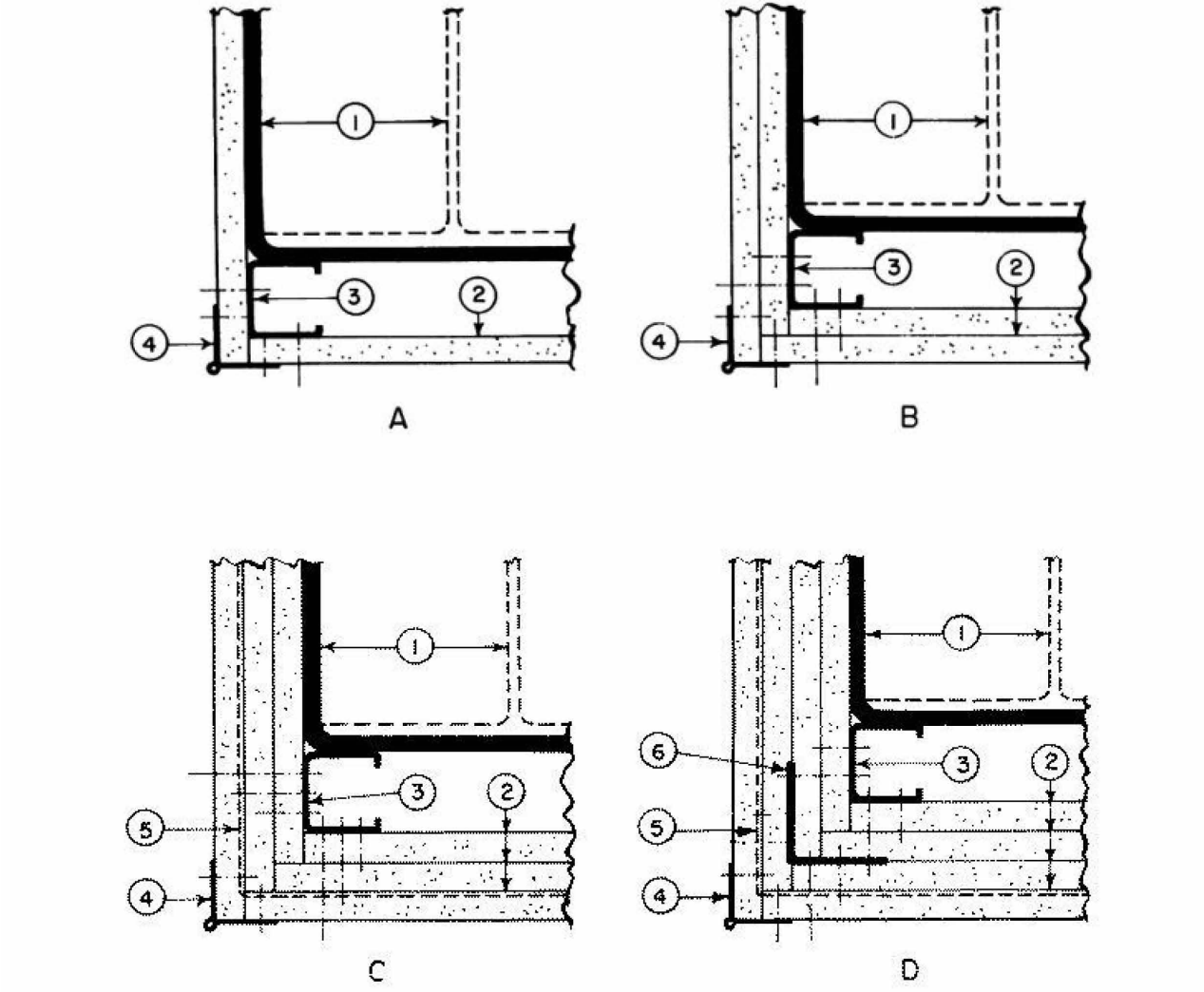
Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

See General Information for Fire-Resistance Ratings - ANSI/UL 283 Certified for United States
See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-Resistance Ratings - ANSI/UL 283 Certified for United States
See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. X528
October 9, 2025

Ratings — 1, 2 and 3 Hr.
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



CORNER DETAILS OF WALLBOARD SUPPORT SYSTEMS WITHOUT STEEL COVERS

- Steel Column** — Min sizes of W-shaped and tubular steel columns which appear in the AISI Steel Construction Manual as shown under Item 2.
- Gypsum Board*** — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. X515, Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, O512 or U205. Nom 1/2 in. or 5/8 in. thick gypsum board. Applied in layers as noted in the above illustrations. Boards are to be applied vertically without horizontal joints. Min total thickness of layers in inches for the various ratings and min column sizes are as follows:

W Shaped Column Min Column Size	Rating (Hr)			Corner Details For Various Rating		
	1	2	3	1 Hr	2 Hr	3 Hr
Total thickness (in.)						
W4x13	1	1-1/2	2-1/4	B	C	D
W6x15.5	1	1-1/2	2-1/4	B	C	D
W10x49	1/2	1-1/8	1-7/8	A	B	C
Tube Shaped columns						
TS 4 by 4						
by0.188	1	1-3/4	2-5/8	B	C	D
TS 8 by 8						
by0.250	5/8	1-1/2	2-1/4	A	C	D

AMERICAN GYPSUM CO (View Classification) — CNKX.R14196
BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO (View Classification) — CNKX.R19374
CABOT MANUFACTURING ULC (View Classification) — CNKX.R25370

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CERTAINTED GYPSUM INC (View Classification) — CNKX.R3660
CGC INC (View Classification) — CNKX.R19751
GEORGIA-PACIFIC GYPSUM L L C (View Classification) — CNKX.R2717
NATIONAL GYPSUM CO (View Classification) — exP-C, CNKX.R3501
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM (View Classification) — CNKX.R7094
PANEL REV'S A (View Classification) — CNKX.R21795
SIAM GYPSUM INDUSTRY (SARABURI) CO LTD (View Classification) — CNKX.R19262
THAI GYPSUM PRODUCTS PCL (View Classification) — CNKX.R19717
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO (View Classification) — CNKX.R40305
UNITED STATES GYPSUM CO (View Classification) — CNKX.R1319
USG BORAL DRYWALL SFZ LLC (View Classification) — CNKX.R38438
USG MEXICO S A DE C V (View Classification) — CNKX.R16589

2A. **Gypsum Board*** — As an alternate to Item 2 - 3/4 in. thick gypsum wallboard. For 2 Hr rating, 1-1/2 in. total thickness, installed in accordance with corner detail B. For 3 Hr rating, 2-1/4 in. total thickness, installed in accordance with corner detail C. Boards are to be applied vertically without horizontal joints.
CGC INC — Type IP-X3 or ULTRACODE
UNITED STATES GYPSUM CO — Type IP-X3 or ULTRACODE
USG BORAL DRYWALL SFZ LLC — Type ULTRACODE
USG MEXICO S A DE C V — Type IP-X3 or ULTRACODE

2B. **Gypsum Board*** — (As an alternate to Items 2 and 2A) — Nominal 5/8 in. thick panels. One of the layers of **Gypsum Board** (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

2C. **Wall and Partition Facings and Accessories*** — (As an alternate to Item 2 through 2B) — Composite Gypsum Panel — Nominal 5/8 in. thick panels. One of the layers of **Gypsum Board** (Item 2) used to obtain the minimum required thickness in Item 2 may be substituted with one layer of composite gypsum panel and secured as described in Item 2.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock OR

2D. **Gypsum Board*** — (As an alternate to Item 2) — 1/2 in. thick, installed as described in Item 2.
CERTAINTED GYPSUM INC — Type C

2E. **Gypsum Board*** — (As an alternate to Item 2) — 1/2 in. or 5/8 in. thick, installed as described in Item 2. For single layer systems, horizontal joints spaced minimum 8 ft apart. For multi-layer systems, horizontal joints in adjacent layers staggered min 12 in. from previous layer.

CERTAINTED GYPSUM INC — 1/2 or 5/8 in. thick Type C, 5/8 in. thick Types GlasRoc, X-1, SilentFX, LWTX

2F. **Gypsum Board*** — (As an alternate to Item 2) - 3/4 in. thick. For 2 Hr rating, 1-1/2 in. total thickness, installed in accordance with corner detail B. For 3 Hr rating, 2-1/4 in. total thickness installed in accordance with corner detail C. Boards are to be applied vertically without horizontal joints. Not applicable to TS 4 by 4 by 0.188 Tube Shaped Column.

National Gypsum Co — Type UltraShield

3. **Steel Stud** — 1-5/8 in. wide with minimum 1-1/4 in. legs having a 1/4- in. folded flange, fabricated from min. 0.0179 in. thick bare metal thickness steel. Length to be 1/2 in. less than the assembly height.

3A. **As an alternate to Item 3, Framing Members*** — galv. steel clips spaced 4 ft OC and 1-1/4 in. from top and bottom of column. A No. 28 MSG galv steel support angle with 1-1/4 in. length shall be placed over clips and secured with screws attaching the wallboard. The angle cut 1 in. less than assembly height splices in angle to occur over clips. The clips for use with wide flange columns only.
JOHN WAGNER ASSOCIATES INC, DBA GRABBER — Types CB, CB/Clips.

4. **Corner Beads** — No. 28 MSG galv steel, 1-1/4 in. legs to be attached to the wallboard with No. 6 by 1 in. screws spaced 12 in. OC max.

4A. **Corner Bead*** — (As an alternate to Item 4) — Attached to gypsum board using all-purpose ready mix joint compound.

CERTAINTED GYPSUM INC — Types NC, NCPRO, NC450
BAILEY METAL PRODUCTS LTD — Types NC, NCPRO, NC450

5. **Tie Wire** — No. 18 SWG steel wire spaced 24 in. OC used with second layer of wallboard.

6. **Screws** — For attaching first layer of wallboard to steel studs, and third layer of wallboard to 2 in. by 2 in. steel angle (2S Goa) to be No. 6 by 1 in. (or 1-1/4 in. for 3/4 in. thick wallboard) Phillips head self-drilling, self-tapping double lead screws spaced 24 in. OC. For attaching second layer of wallboard to steel studs and fourth layer of wallboard to 2 in. by 2 in. steel angle (2S Goa) to be No. 6 by 1-3/4 in. (or 2-1/4 in. for 3/4 in. thick wallboard) steel screws of the same type spaced 12 in. OC. For attaching third layer of wallboard to steel studs to be No. 8 by 2-1/4 in. screws of the same type spaced 12 in. OC.

7. **Finishing System** — (Not Shown) — Joint compound applied over corner beads to a thickness of 1/16 in.

* 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 2025-10-09

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UL U438 - FIRE-RESISTANCE RATINGS

Product IQ®

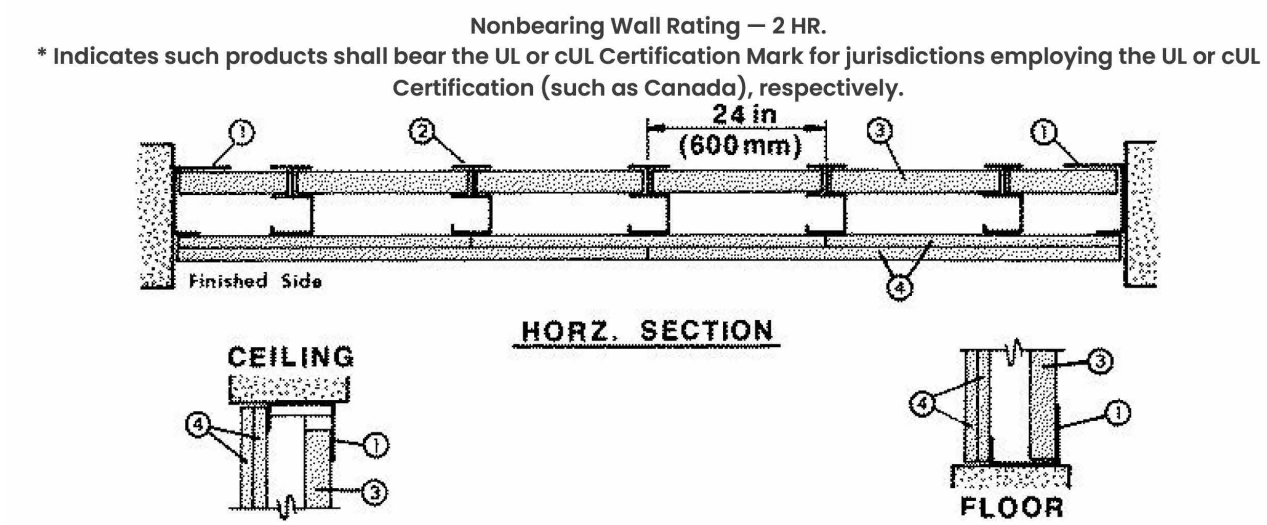
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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

See General Information for Fire-Resistance Ratings - ANSI/UL 283 Certified for United States
See General Information for Fire-Resistance Ratings - ANSI/UL 283 Certified for United States
See General Information for Fire-Resistance Ratings - ANSI/UL 283 Certified for United States
See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U438

November 14, 2025



1. **Floor and Ceiling Runners** — "J"-shaped runner, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG when Item 4B is used). Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs** — "C"-H"-shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used). Cut to lengths 3/8 to 1/2 in. less than floor to ceiling height and spaced 24 in. or 600 mm OC (max 18 in. OC when Items 4B, 4D, 4E is used).

2A. **Steel Studs** — (Not shown) — "E"-shaped studs installed in place of "C"-H"-shaped studs (Item 2) to secure the closure liner panels at the ends of walls. Fabricated from 25 MSG galv steel (min 20 MSG when Item 4B, 4D, or 4E is used). 2-1/2 in. wide with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 in. less than floor to ceiling height. Sill and lintel of opening formed with "J"-shaped runners (Item 1) secured to "E"-shaped studs with angle clips and steel screws.

3. **Gypsum Board*** — 1 in. thick gypsum wallboard liner panels, supplied in nom 24 in. or 600 mm (for metric spacing) widths. Panels cut 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H"-shaped section of "C"-H"-stud. Free edge of end panels attached to long leg of "J"-runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC.
CGC INC — Type SLX.

CERTAINTED GYPSUM INC — Type Shiftliner, LGFCSL

NATIONAL GYPSUM CO — FSW, FSW - 7

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

4. **Gypsum Board*** — 1/2 in. thick, 4 ft. or 1200 mm (for metric spacing) wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and "J"-runners with 1-5/8 in. long Type S steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. Joints between inner and outer layers staggered. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound.

As an alternate method, inner wallboard layer applied vertically, outer wallboard layer applied horizontally. Inner layer attached to studs with 1 in. Type S steel screws spaced 24 in. OC along vertical edges and in the field. Outer layer attached to the studs and "J" runners over the inner layer with 1-5/8 in.

long Type S steel screws spaced 12 in. OC in the field, along the vertical edges and to the floor and ceiling runners. Outer layer secured to inner layer wallboard with 1-1/2 in. long Type G steel screws located midway between studs and 1 in. from the horizontal joint.

AMERICAN GYPSUM CO — Types AG-C.

CABOT MANUFACTURING ULC — Type C

CERTAINTED GYPSUM INC — Type C

CGC INC — Type C, IP-X2, or WRC.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C.

NATIONAL GYPSUM CO — Types exP-C, FSK-C, FSW-C, FSMR-C.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types PG-C.

SAINT-GOBAIN GYPROC MIDDLE EAST FZE — Type Gyproc FireStop, Gyproc FireStop MR, Gyproc FireStop MTECH, Gyproc FireStop ACTIVAir, Gyproc FireStop MR ACTIVAir, Gyproc FireStop MTECH ACTIVAir

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Type C, IP-X2 or WRC.

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Type C, IP-X2 or WRC.

4A. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 8 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed screw heads covered with joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type AR, IP-AR, IP-X1, SCX, ULX, or WRC.

UNITED STATES GYPSUM CO — Type AR, FRX-G, IP-AR, IP-X1, SCX, ULX or WRC.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type AR, IP-AR, IP-X1, SCX, ULX, or WRC.

4B. **Gypsum Board*** — (Not Shown) — May be used in lieu of Items 4 or 4A for the base layer — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead bottom strips (Item 6) required behind vertical joints.

RAY-BAR ENGINEERING CORP — Type RB-LBG

4C. **Gypsum Board*** — (As an alternate to Item 4, 4A, 4B) — 5/8 in. thick. Two layers installed as described in Item 4.
NATIONAL GYPSUM CO — Type FSMR-C, FSW-C, FSK-C, exP-C.

4D. **Gypsum Board*** — (Not Shown) — May be used in lieu of Items 4 for the base layer — Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead bottom strips required behind vertical joints. To be used with Lead Bottom Strips (see Item 6B) or Lead Discs (see Item 6C).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4E. **Gypsum Board*** — (Not Shown) — May be used in lieu of Items 4 for the base layer. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead bottom strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead bottom strips, min 2 in. wide, max 8 ft long with a max thickness of 0.4 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead bottom strips and discs to have a purity of 99.9% meeting the Federal Specification QQ-L-2010, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP — Lead Lined Drywall

4F. **Gypsum Board*** — (As an alternate to Item 4) — 5/8 in. thick gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC when installed vertically and staggered min. 8 in. from base layer screws or 8 in. OC when installed horizontally and staggered min. 8 in. from base layer screws. Horizontal joints between inner and outer layers need not be staggered. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. Outer layer joints covered with paper tape and joint compound. Exposed

screw heads covered with joint compound. When used in widths other than 48 in., gypsum panels to be installed horizontally.
CGC INC — Type ULUX.

UNITED STATES GYPSUM CO — Type ULUX.

4G. **Gypsum Board*** — 5/8 in. thick, 4 ft wide wallboard applied vertically in two layers. Inner or base layer attached to studs with 1 in. long Type S or S-12 steel screws spaced 24 in. OC along the edges and in the field of the boards. Outer or face layer attached to studs and "J"-shaped runners with 1-5/8 in. long Type S or S-12 steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screws in inner layer. Joints between inner and outer layers staggered. Outer layer joints covered with paper or mesh tape and joint compound. Exposed screw heads covered with joint compound.

NATIONAL GYPSUM CO — exP-C, FSK, FSK-C, FSW, FSW-C, FSW-3, FSW-5, FSW-6

CERTAINTED GYPSUM INC — Type X-1

4I. **Gypsum Board*** — (As an alternate to Item 4) — For use with 1 in. Type FSW-7 gypsum board (Item 3) only. 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached vertically to studs and side "J" runners with 1 in. long Type S self-tapping steel screws spaced 16 in. OC. Face layer installed vertically in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³ in accordance with the application instructions supplied with the product.

Appligate GreenFiber Acquisition LLC — Insulmax and SANCTUARY for use with wet or dry application.

5. **Batts and Blankets*** — (Optional) — (Not shown) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt material bearing the UL Classification Marking as to Fire Resistance.

5A. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.
NU-WOOL CO INC — Cellulose Insulation

5B. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

5C. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.

INTERNATIONAL CELLULOSE CORP — Celbar-RL

5D. **Fiber, Sprayed*** — As an alternate to Batts and Blankets (Item 5) — Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.

Appligate GreenFiber Acquisition LLC — Appligate Advanced Stabilized Cellulose Insulation

6. **Lead Batten Strips** — For Use with Item 4B — (Not Shown) — Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal Specification QQ-L-2010, Grade "C".

6A. **Lead Discs or Tabs** — (Not Shown) — Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations — Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal Specification QQ-L-2010, Grade "C".

6B. **Lead Batten Strips** — (Not shown, for use with Item 4B) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.40 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal Specification QQ-L-2010, Grades "B, C or D". Lead bottom strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

6C. **Lead Discs** — (Not Shown, for use with Item 4B) Max 5/8 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-2010, Grades "B, C or D".

* 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 2025-11-14

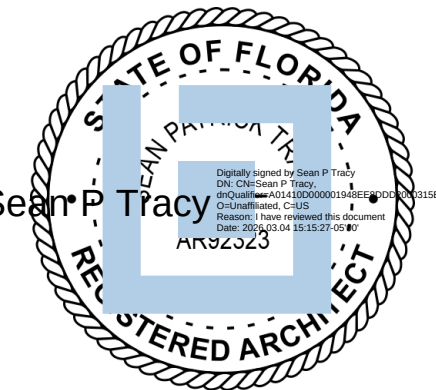
NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.

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DOCUMENTS

ISSUE DATE
02/25/2026

REVISIONS
NO. REASON DATE

PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL

PROJECT NO.
814C632800

SHEET TITLE
UL ASSEMBLY
INFORMATION

PROJECT TEAM
PRINCIPAL IN CHARGE
SEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES

DESIGN TEAM
ORL-COMMUNITY
PROJECT NAME

COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
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1855 NW COUNTY ROAD 25A,
LAKE CITY, FL

PROJECT NO.
814C632800

SHEET TITLE



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REVISIONS		
NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
SEAN TRACY

PROJECT MANAGER
BENJAMIN BOYLES

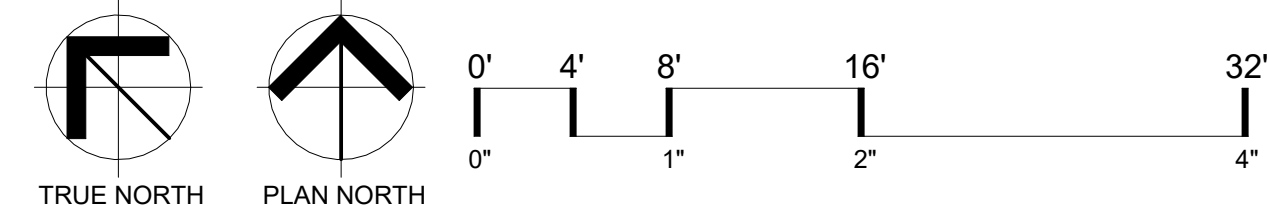
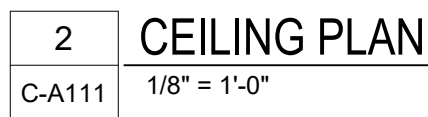
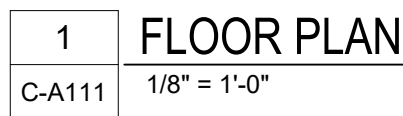
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ORL-COMMUNITY

PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL 32055

PROJECT NO.
814C632800

SHEET TITLE
ARCHITECTURAL SITE
PLAN

SHEET NUMBER
C-A101



ET NUMBER

C-A111

GENERAL NOTES - ROOF

- OVERFLOW SCUPPERS ON EACH EACH SIDE OF DOWNSPOUT, TYP SEE DETAIL 7/A-502, U.O.N.
- COORDINATE CRICKET AND HATCH LOCATION WITH STRUCTURE
- MAXIMUM GUTTER LENGTH (WHEN PRESENT) TO BE SERVED BY A DOWNSPOUT IS 50'-0" PER SMACNA ASMM.
- ALL CANOPIES TO BE CONNECTED TO SITE STORM SEWER SYSTEM REFER TO PLUMBING AND CIVIL DRAWINGS.
- ALL TRIBUTARY AREAS INCLUDE THE VERTICAL AREAS PER FBC SECTION 1106.4
- ALL SECONDARY (EMERGENCY OVERFLOW) SHALL BE SAME SIZE AS THE DRAIN WALL SCUPPER.
- PROVIDE TRANSITION HUB FROM RECTANGULAR OR SQUARE DOWNSPOUTS CONNECTING TO S.S. PIPE SYSTEM.

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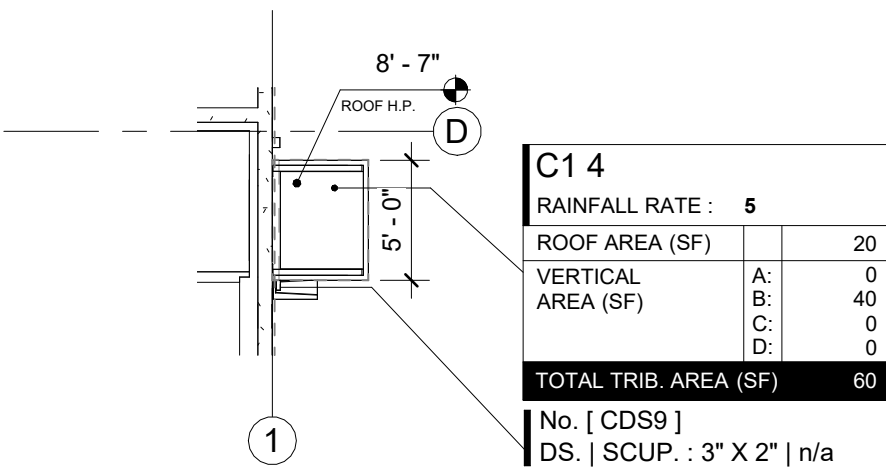
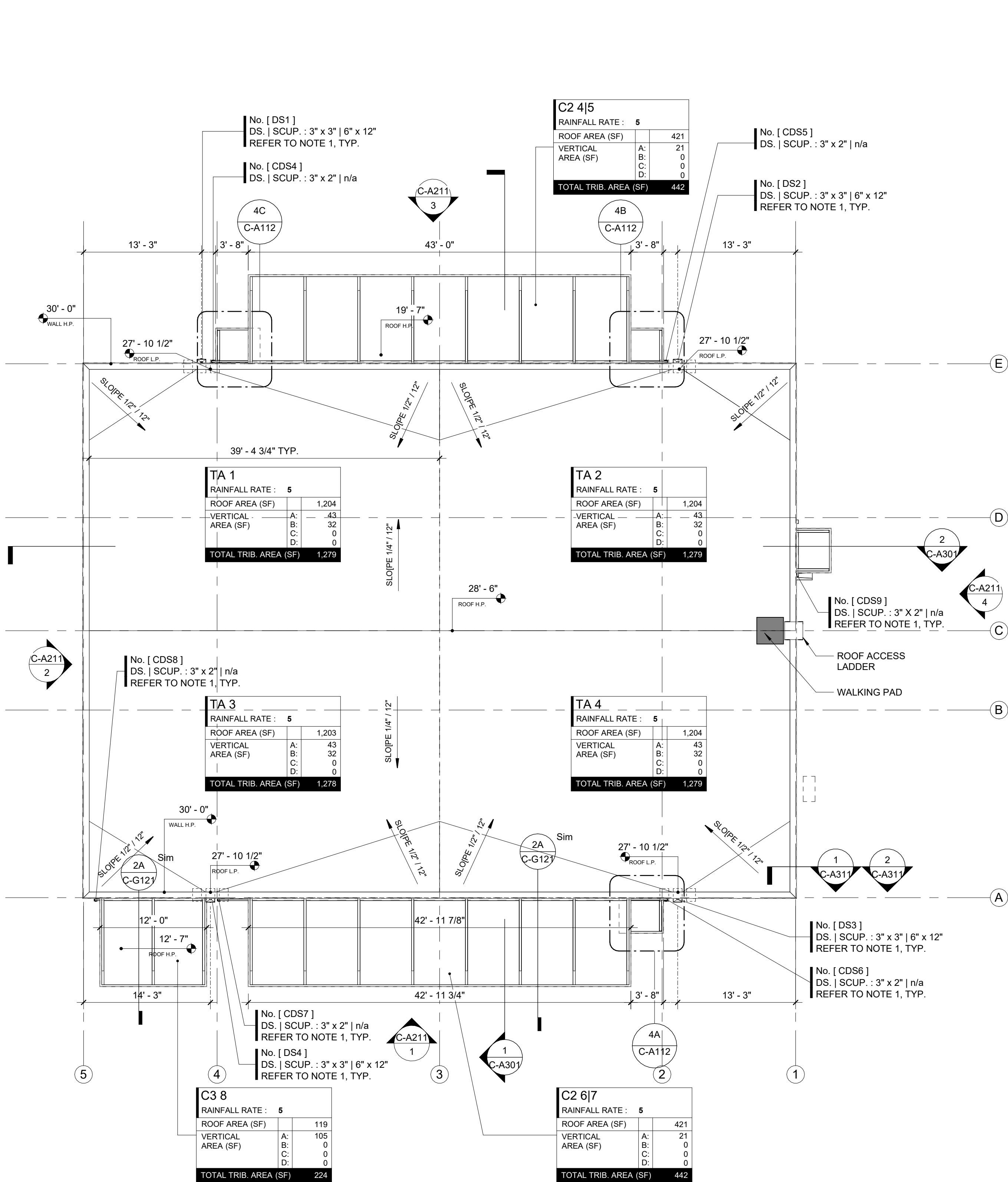
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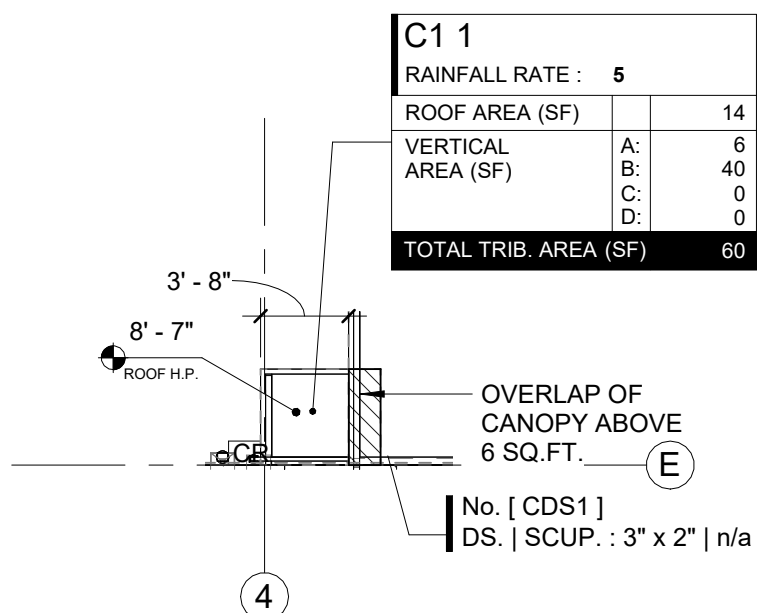


ROOF DRAIN TRIBUTARY AREA & DOWNSPOUT AND SCUPPER SIZE														
Tributary Area / DS.	DS. #	DS. (WxD) SCUP. (HxW)	Roof Area (S.F.)	V.A. (A)	V.A. (B)	V.A. (C)	V.A. (D)	Total Tributary Area	Rainfall Rate	Rainfall Flow Rate (GPM / 1 S.F.)	Min. Flow Rate Required (G.P.M.)	Flow Rate Provided (G.P.M.)	Gutter Size	Comments
C1 1	CDS1	2" x 3" n/a	14	6	40	0	0	60	5	0.052	3	92		
C1 2	CDS2	2" x 3" n/a	14	6	40	0	0	60	5	0.052	3	92		
C1 3	CDS3	2" x 3" n/a	14	6	40	0	0	60	5	0.052	3	92		
C1 4	CDS9	2" x 3" n/a	20	0	40	0	0	60	5	0.052	3	92		
C2 4 5	CDS4 CDS5	2" x 3" n/a	421	21	0	0	0	442	5	0.052	23	92		DS ON BOTH SIDE OF THE CANOPY, SIZE INDICATED IS FOR EACH ONE
C2 6 7	CDS6 CDS7	2" x 3" n/a	421	21	0	0	0	442	5	0.052	23	92		DS ON BOTH SIDE OF THE CANOPY, SIZE INDICATED IS FOR EACH ONE
C3 8	CDS8	2" x 3" n/a	119	105	0	0	0	224	5	0.052	12	92		
TA 1	DS 1	3" x 3" 6" x 12"	1,204	43	32	0	0	1,279	5	0.052	67	92		
TA 2	DS 2	3" x 3" 6" x 12"	1,204	43	32	0	0	1,279	5	0.052	66	92		
TA 3	DS 3	3" x 3" 6" x 12"	1,203	43	32	0	0	1,278	5	0.052	66	92		
TA 4	DS 4	3" x 3" 6" x 12"	1,204	43	32	0	0	1,279	5	0.052	67	92		
									6.463					

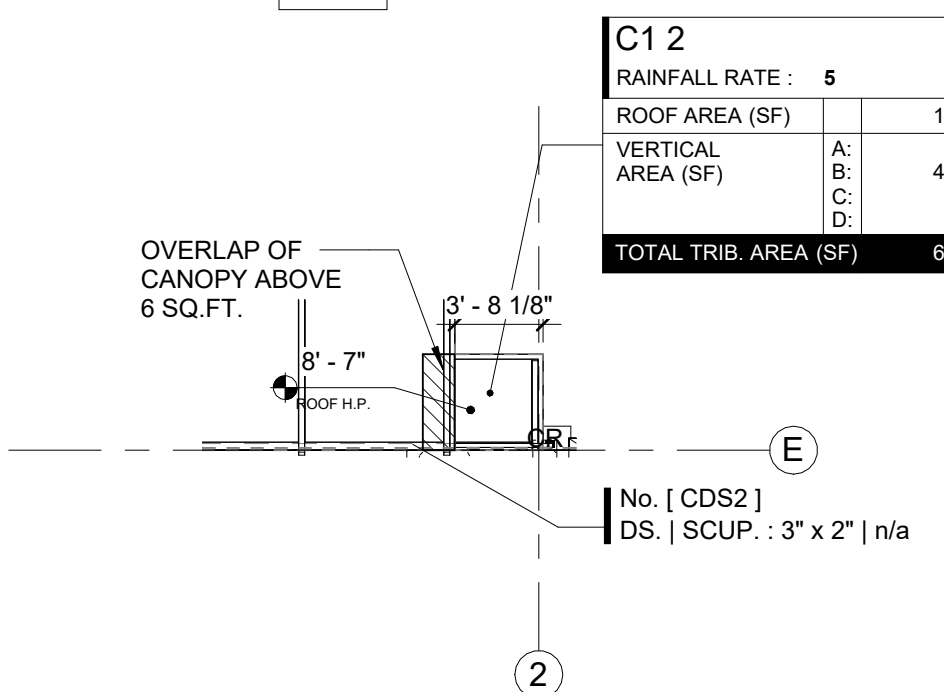
CANOPY SCHEDULE				
Canopy type	Level	Canopy Elevation (Bottom)	Width	Projection
C1	LEVEL 01	8' - 0"	5' - 0"	4' - 0"
C2	LEVEL 01	19' - 0"	43' - 0"	10' - 0"
C3	LEVEL 01	12' - 0"	12' - 0"	10' - 0"



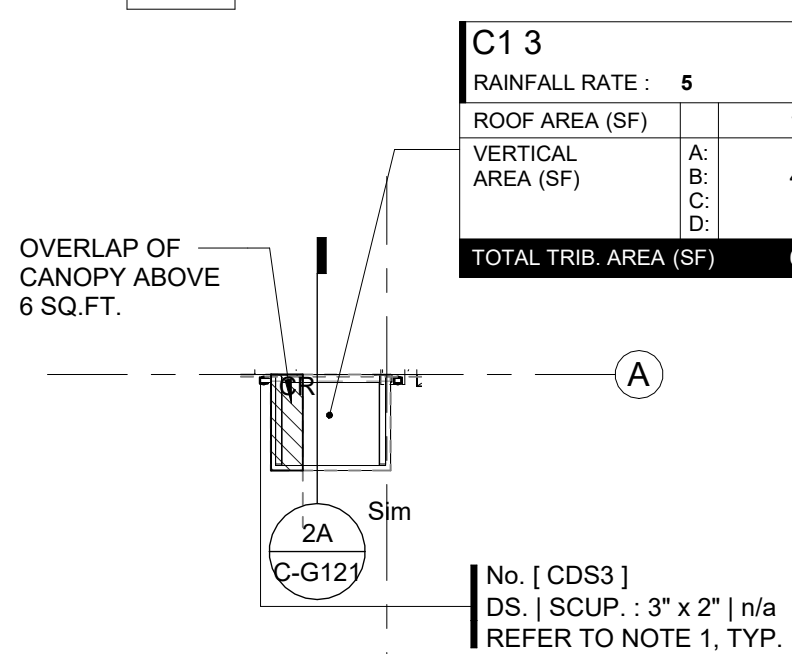
4D CANOPY C1-CDS4 TRIBUTARY AREA
C-A112 1/8" = 1'-0"



4C CANOPY C1-CDS1 TRIBUTARY AREA
C-A112 1/8" = 1'-0"

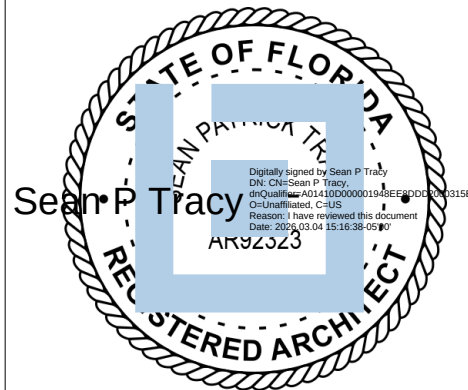


4B CANOPY C1-CDS2 TRIBUTARY AREA
C-A112 1/8" = 1'-0"



4A CANOPY C1-CDS3 TRIBUTARY AREA
C-A112 1/8" = 1'-0"

1A ROOF PLAN
C-A112 1/8" = 1'-0"



ISSUE FOR
CONSTRUCTION
DOCUMENTS

ISSUE DATE
02.25.2026

REVISIONS
NO. REASON DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
SEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES
DESIGN TEAM
ORL-COMMUNITY

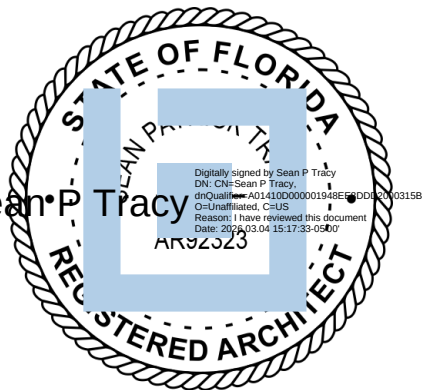
PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL 32055

PROJECT NO.
814C632800

SHEET TITLE
ROOF PLAN

SHEET NUMBER

C-A112

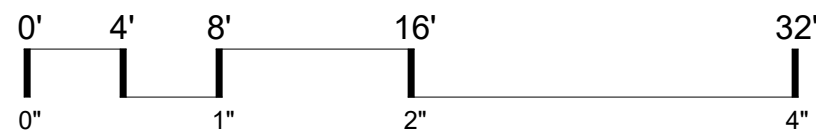
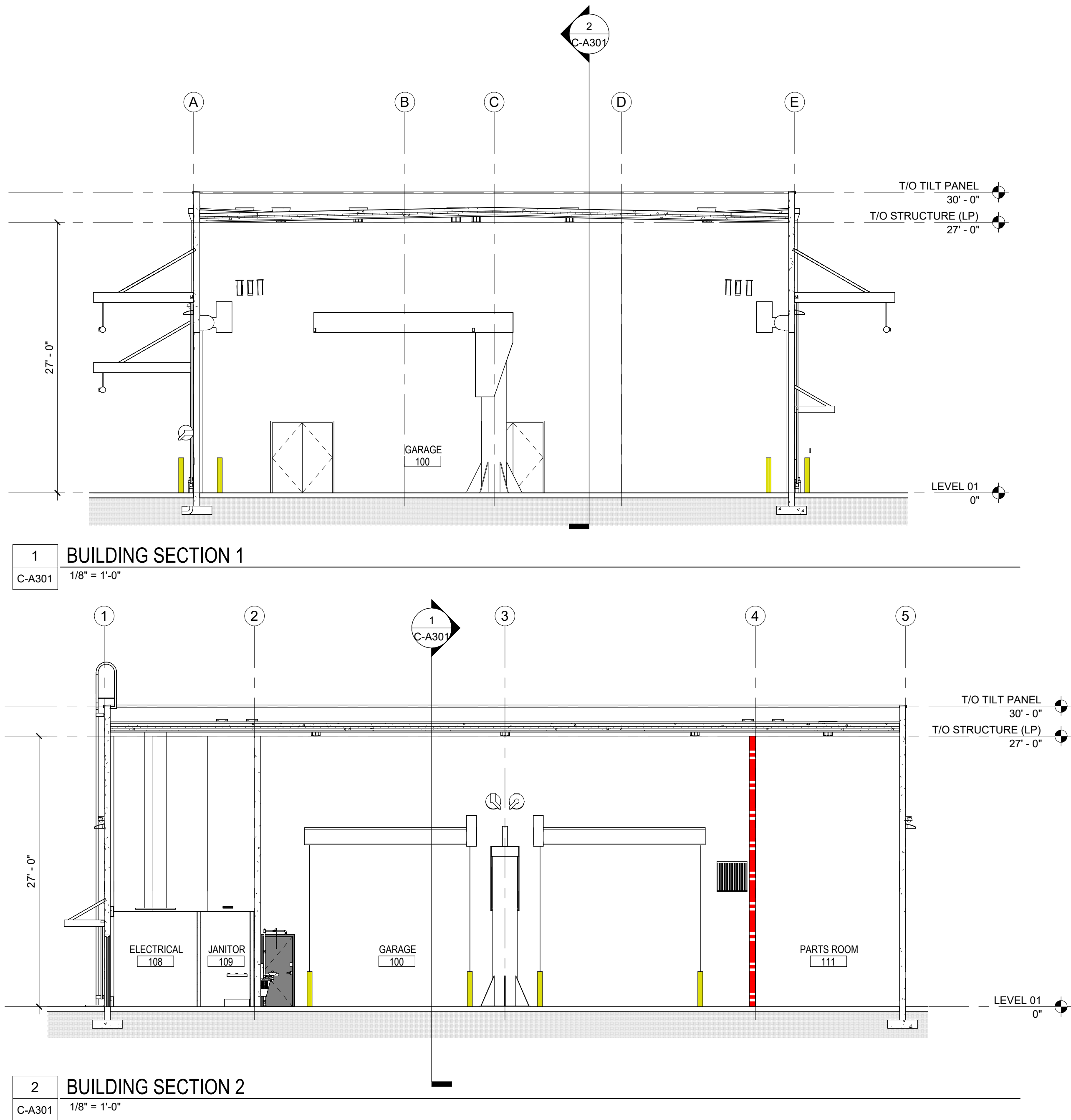


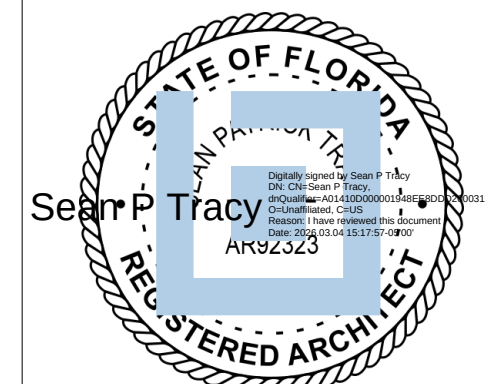
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NO.	REASON	DATE

COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
55 NW COUNTY ROAD 25A
LAKE CITY, FL 32055

SET NUMBER

C-A301





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PROJECT MANAGER

DESIGN TEAM
ORL-COMMUNITY

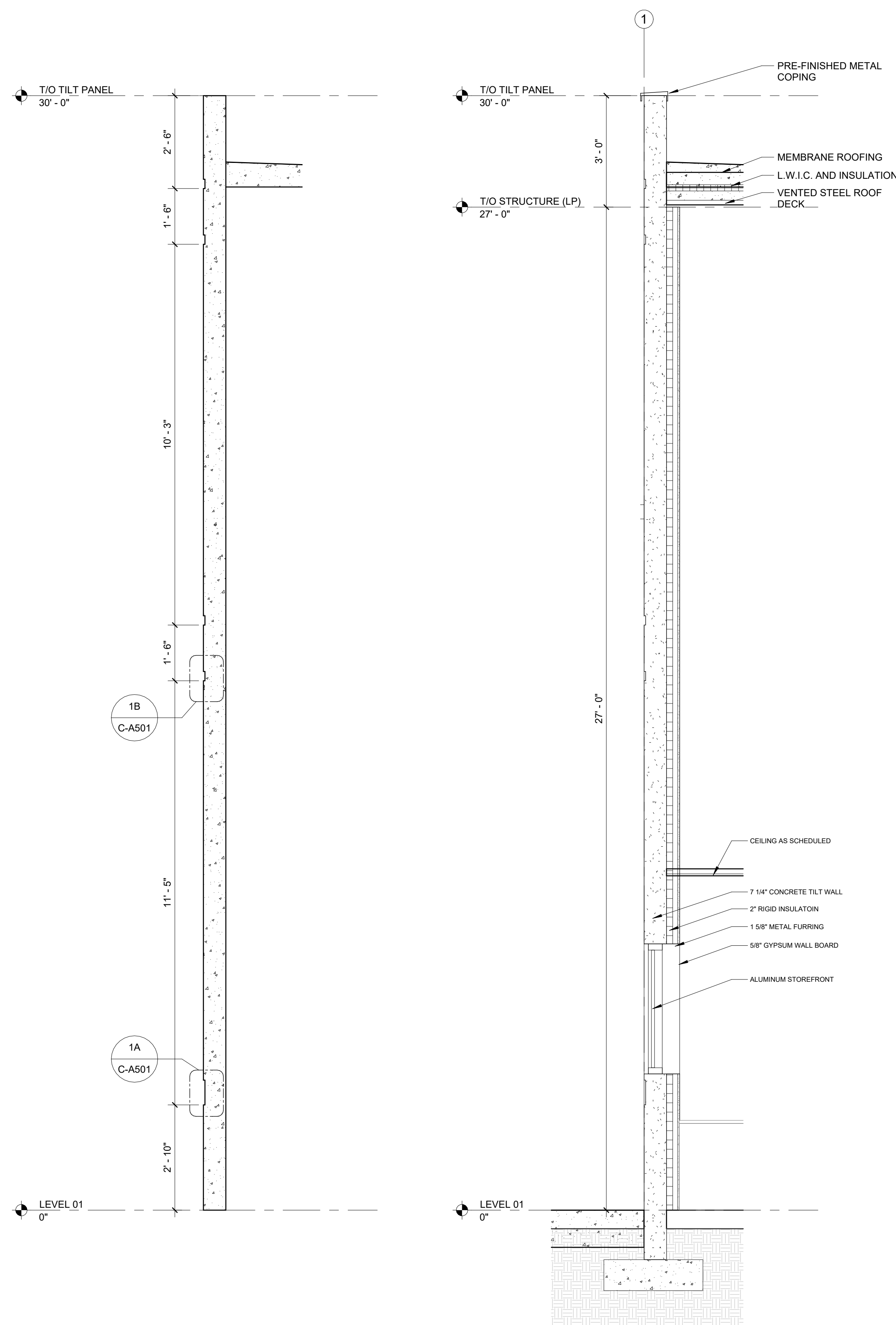
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VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A
LAKE CITY, FL 32055

814C632800

WALL SECTIONS

SHEET NUMBER

C-A311



2	TILT WALL REVEALS
C-A311	1/2" = 1'-0"

1	WALL SECTION 1
C-A311	1/2" = 1'-0"

NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.

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FPL

STATE OF FLORIDA
SEAN P. TRACY
REGISTERED ARCHITECT

ISSUE FOR
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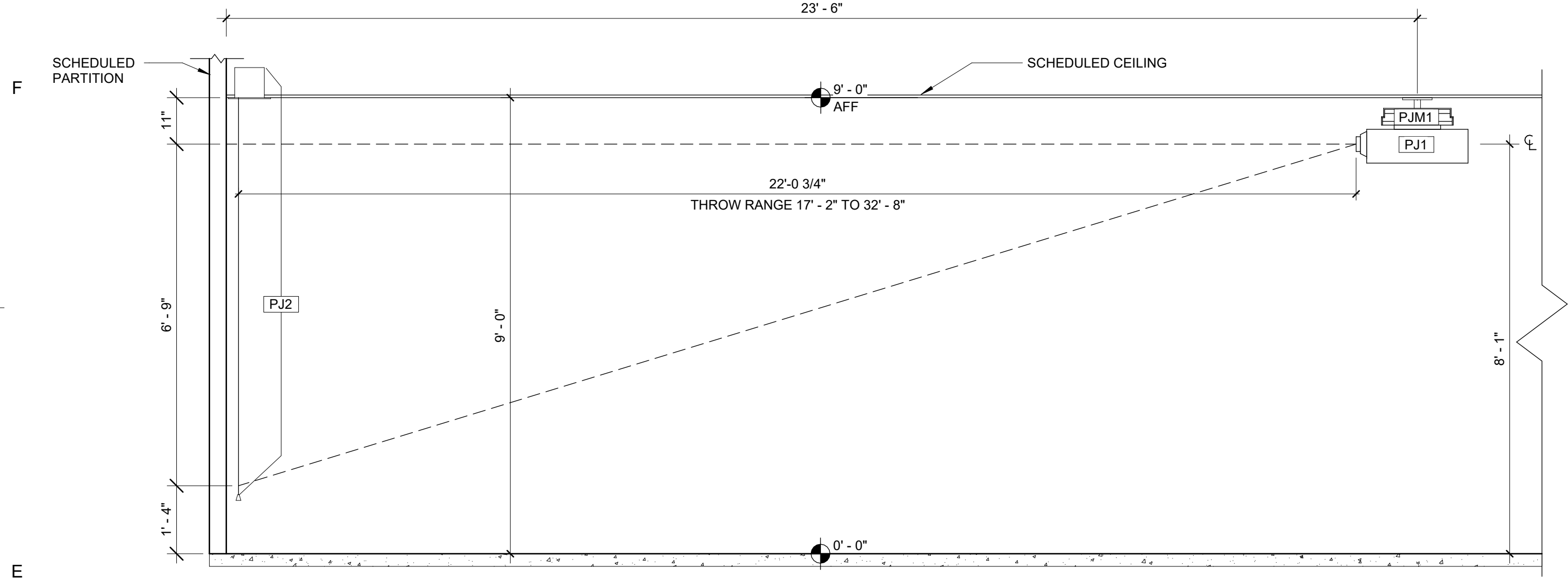
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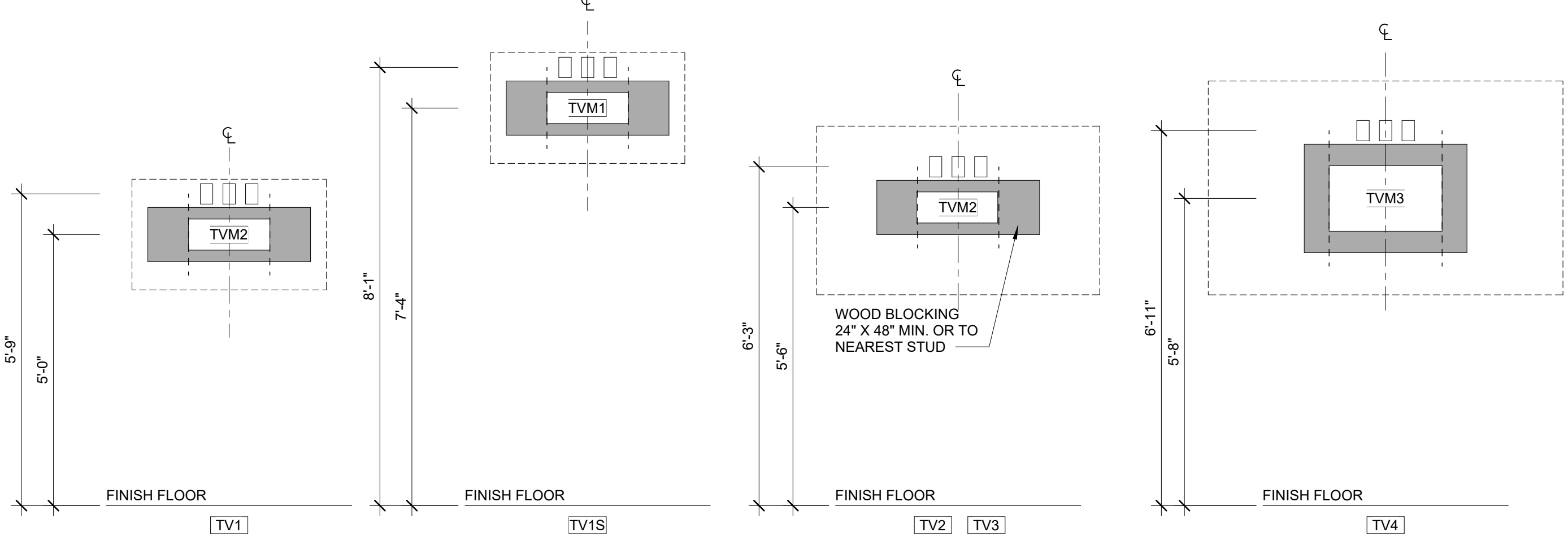
PROJECT TEAM
PRINCIPAL IN CHARGE
SEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES
DESIGN TEAM
ORL-COMMUNITY
PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL
PROJECT NO.
814C632800

SHEET TITLE
TYPICAL MOUNTING
DETAILS

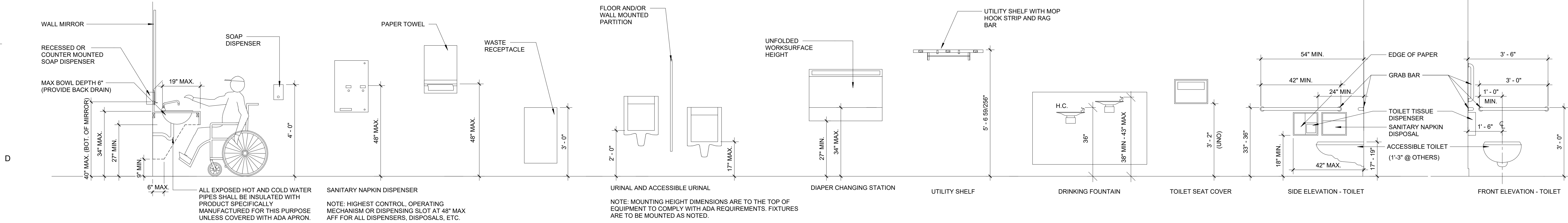
SHEET NUMBER
C-A400



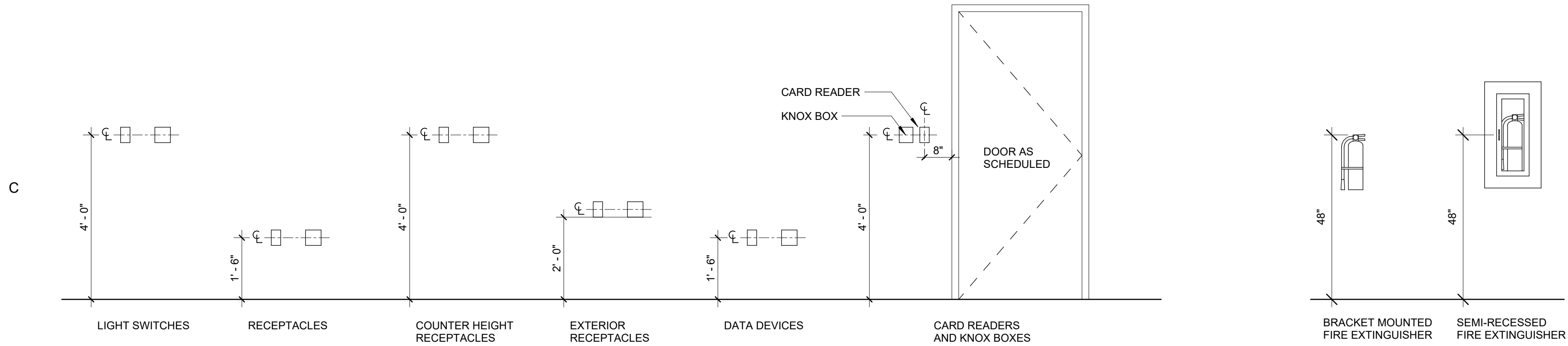
1 PROJECTOR AND SCREEN MOUNTING
C-A400 1/2" = 1'-0"



2 TYP. TV MOUNTING HEIGHTS
C-A400 1/2" = 1'-0" NOTE: REFER TO SHEET A-A800 FOR EQUIPMENT SCHEDULE



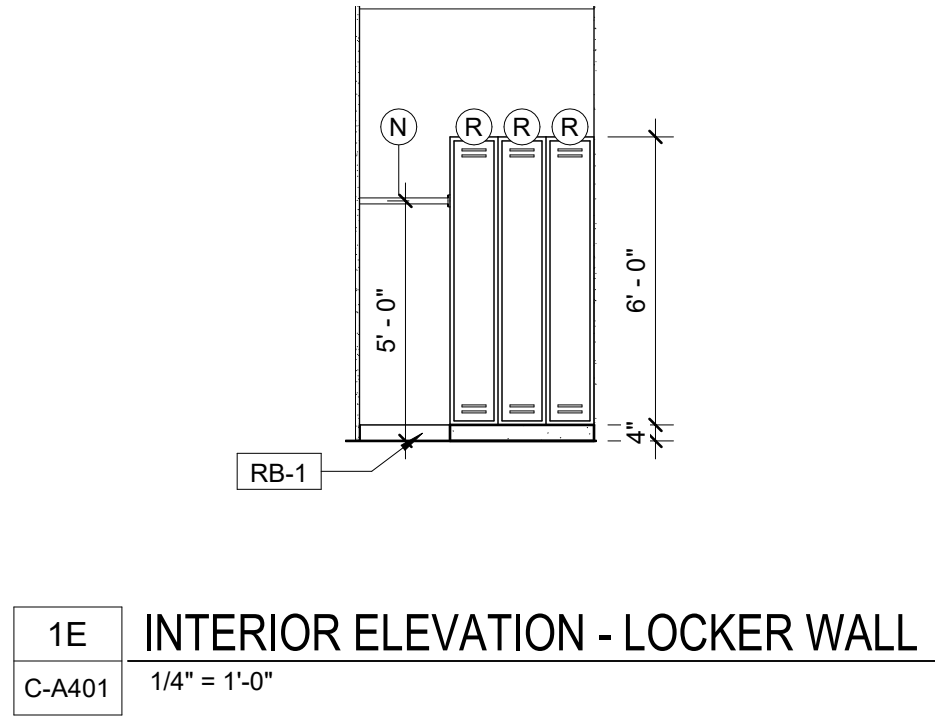
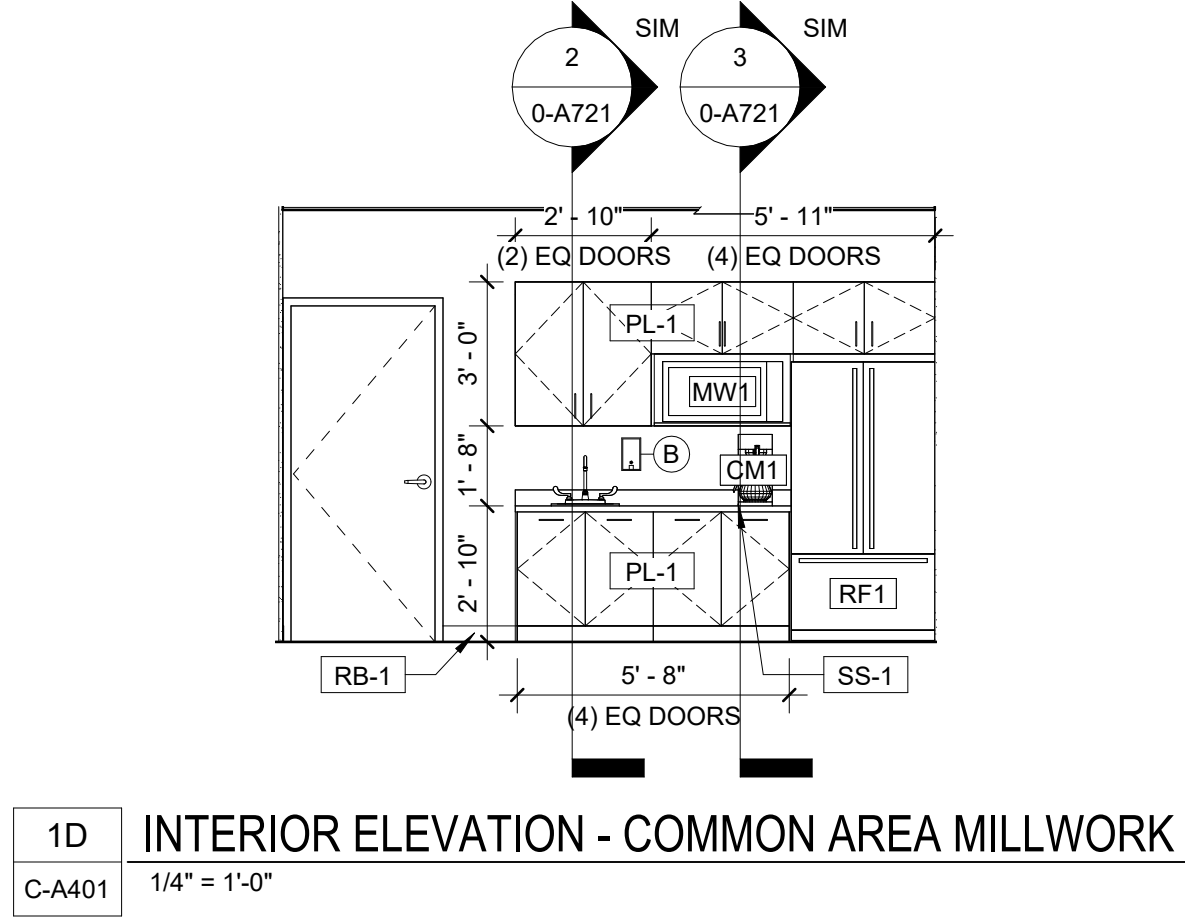
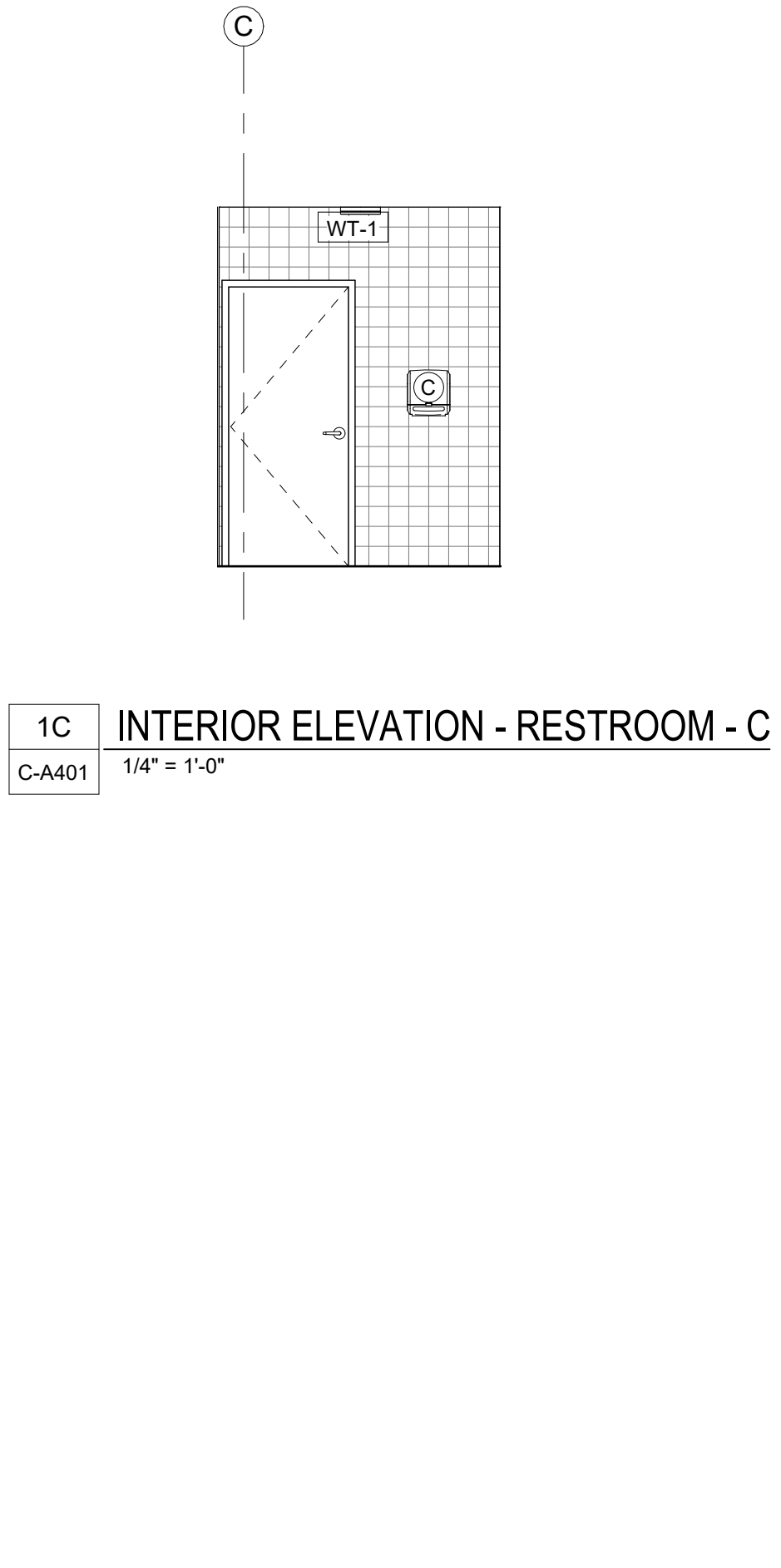
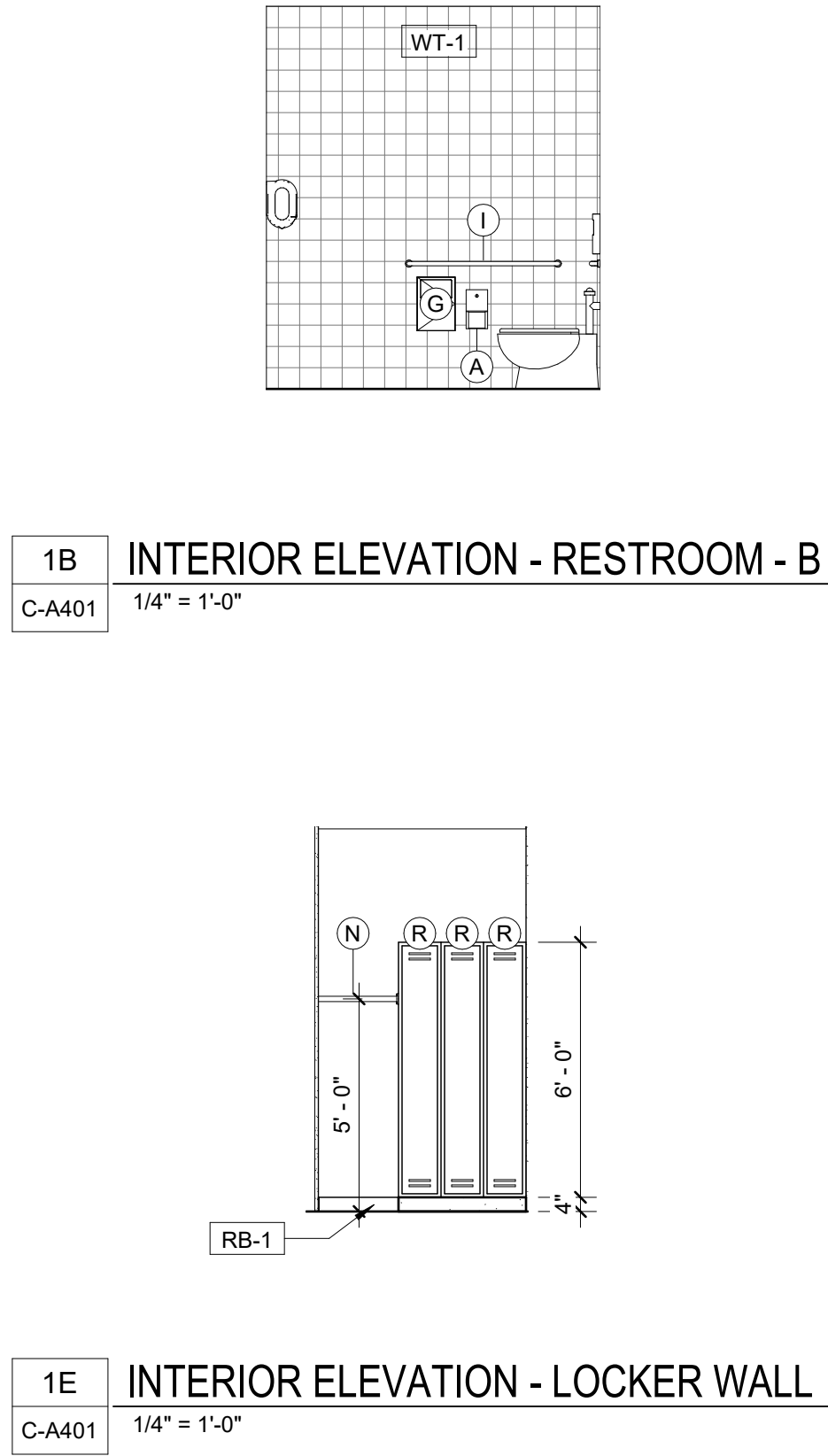
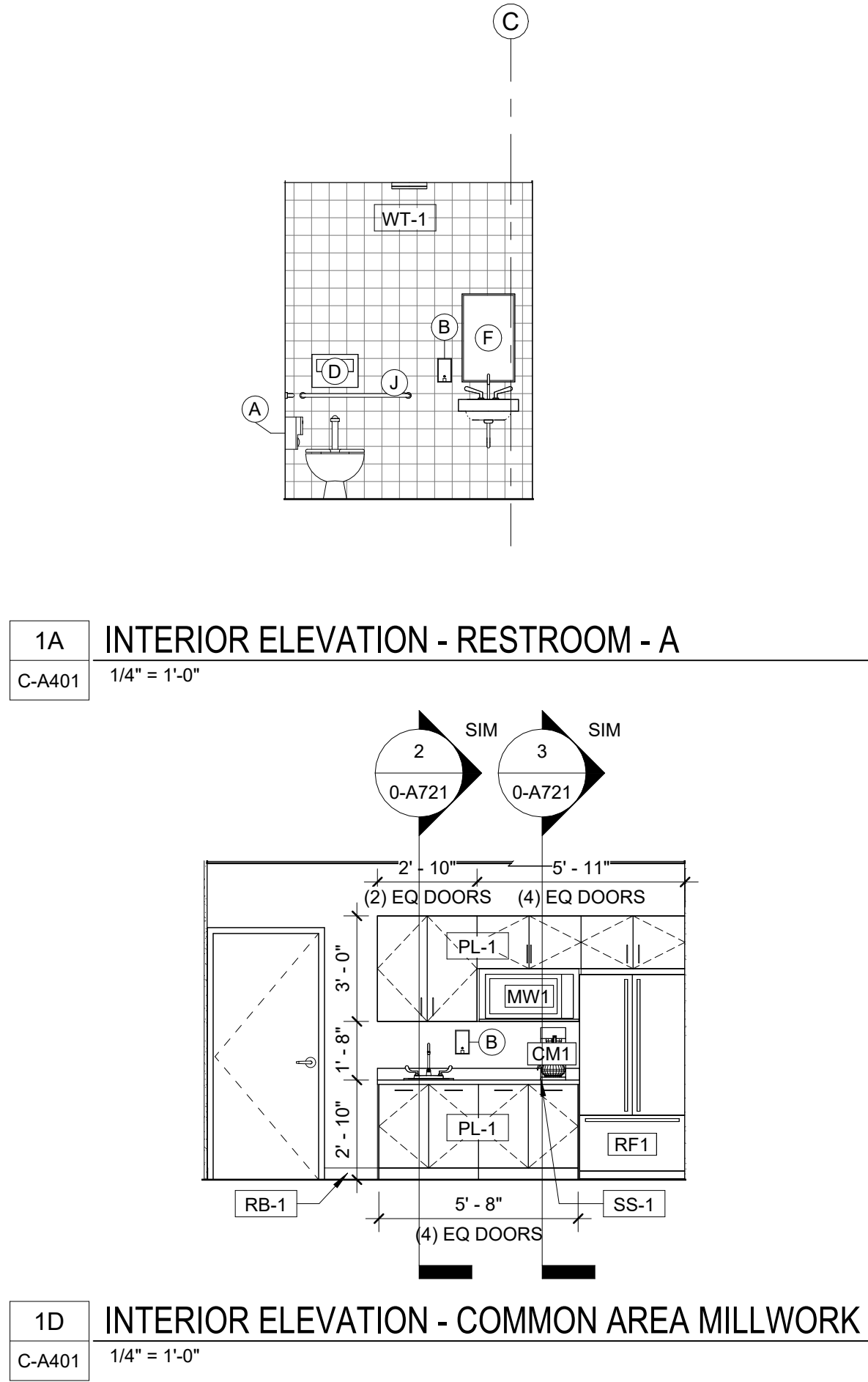
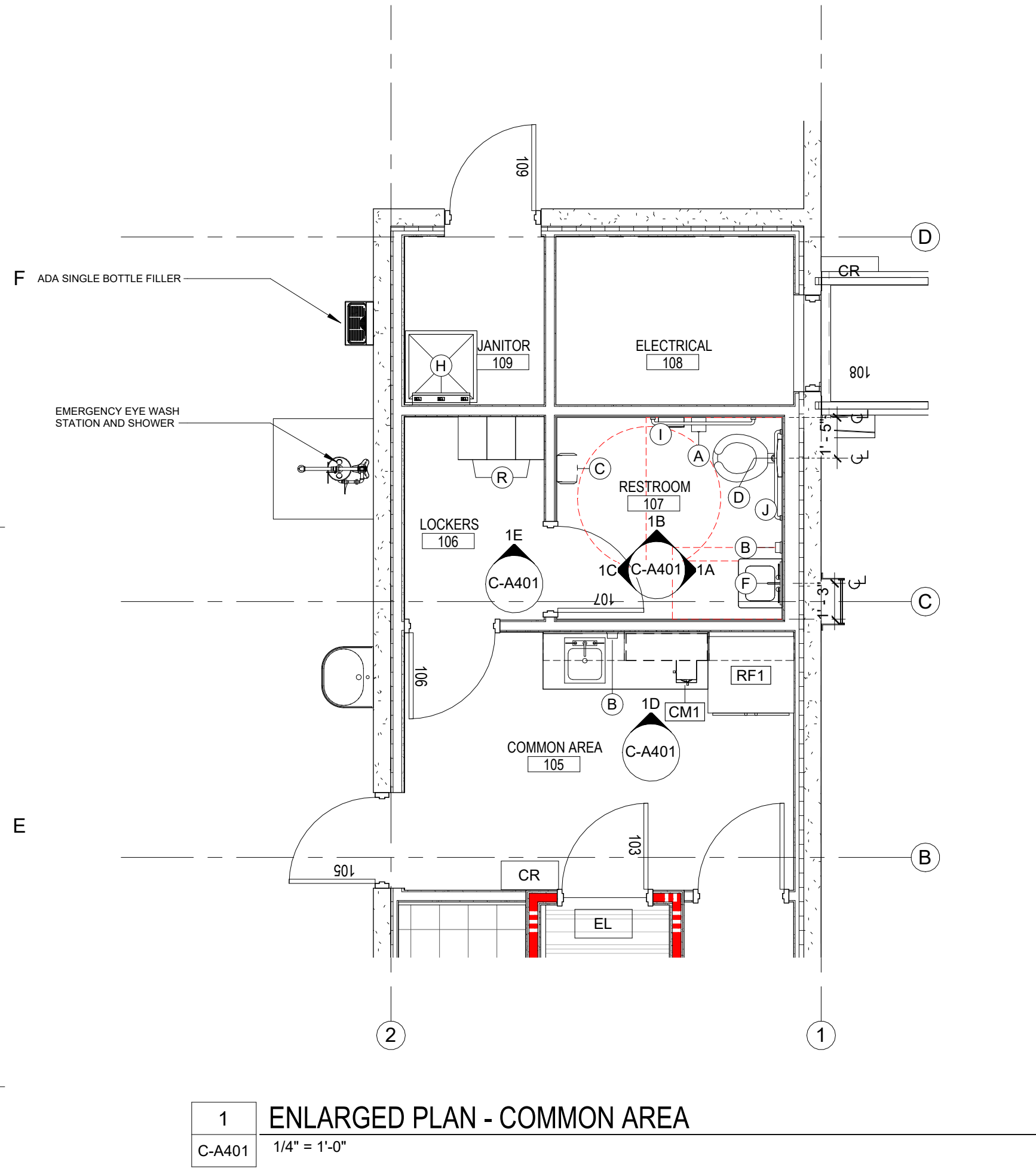
3 TYPICAL BATHROOM MOUNTING HEIGHTS
C-A400 1/2" = 1'-0"



4 TYP. DEVICE MOUNTING HEIGHTS
C-A400 1/2" = 1'-0"

5 FIRE EXTINGUISHERS
C-A400 1/2" = 1'-0"

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TOILET ACCESSORIES LEGEND

Key	Accessory	Make	Model	Furnish/Install
A	Multi-Roll Toilet Tissue Dispenser	Bobrick	B-4288	OFCI
B	Automatic Soap Dispenser	Coastwide Professional	J Series # CWJAS U-SA112-21-2000	CFCI
C	Automated Touchless Roll Towel Dispenser	Georgia-Pacific	Black 59498A	OFCI
D	Toilet Seat Cover Dispenser	Bobrick	B-4221	CFCI
E	NOT USED	-	-	-
F	18"x30" Glass Mirror with Stainless Steel Frame	Bobrick	B-165 1830	CFCI
G	Surface Mounted Sanitary Napkin Disposal	Bobrick	B-254	CFCI
H	24" Wide Mop/Broom Holder w/ (3) Holders	Bobrick	B223x24	CFCI
I	Grab Bar - 42"	Bobrick	B-5806 x 42	CFCI
J	Grab Bar - 36"	Bobrick	B-5806 x 36	CFCI
K	Grab Bar - 24"	Bobrick	B-5806 x 24	CFCI
L	Grab Bar - 18" Vertical	Bobrick	B-5806 x 18	CFCI
M	Grab Bar - Two Wall	Bobrick	B-58616	CFCI
N	Shower Rod	Bobrick	B-207 x 36, 48, 72	CFCI
O	Shower Curtain Hooks	Bobrick	204-1	CFCI
P	Shower Curtain	Bobrick	204-3	CFCI
Q	Reversible Shower Seat	Bobrick	B-5181	OFCI
R	Lockers	List Industries	Heavy-Duty Ventilated KD, 12"x18"x72", Hollowell Gray	CFCI

ABBREVIATIONS
OF - OWNER FURNISHED
OI - OWNER INSTALLED
CF - CONTRACTOR FURNISHED
CI - CONTRACTOR INSTALLED

LITTLE

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STATE OF FLORIDA

SEAN P. TRACY

REGISTERED ARCHITECT

AKR2223

ISSUE FOR

CONSTRUCTION DOCUMENTS

ISSUE DATE

02.25.2026

REVISIONS

NO. REASON DATE

PROJECT TEAM

PRINCIPAL IN CHARGE
SEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES
DESIGN TEAM
ORL-COMMUNITY
PROJECT NAME
COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING C - VEHICLE MAINTENANCE GARAGE
1855 NW COUNTY ROAD 25A, LAKE CITY, FL 32055
PROJECT NO.
814C632800

SHEET TITLE

ENLARGED PLANS AND INTERIOR ELEVATIONS

SHEET NUMBER

C-A401

EQUIPMENT SCHEDULE					
Key	Equipment	QTY	Make	Model	Installation
AC1	Vertical Air Compressor	1.0	Ingersoll Rand	SS3L3	CFCI
AC2	Rotary Air Compressor	-	Quincy	QR-25	CFCI
AV1	AVI Credenza	-	AAVFI	CR100EX	OFOI
CM1	Coffee Maker	1.0	TBD	TBD	OFOI
DY1	Dryer	-	TBD	TBD	OFCI
EX1	Treadmill	-	Preco Cardio Commercial Line	TRM331 P631	OFOI
EX2	Elliptical	-	Preco Cardio Commercial Line	EFX635 P31	OFOI
EX3	Stationary Bike	-	Preco Cardio Commercial Line	PBK 635	OFOI
EX4	Leg Extension/Curl	-	Preco Cardio Commercial Line	Seated Curl	OFOI
EX5	Functional Training System	-	Hoist Fitness	M7	OFOI
EX6	Flat to Incline Bench	-	Discovery	Flat to Incline Bench	OFOI
EX7	5.50 LB Dumbbells w Rack	-	Tag Fitness	Rubber Hex Dumbbell Set	OFOI
EX8	Olympic Plate Tree	-	Hoist Fitness	Olympic Plate Tree	OFOI
EX9	Flat Tray Rack	-	Tag Fitness	3 Tier Flat Rack	OFOI
IM1	Ice Maker	-	Hoshizaki	KD-100SRJ	OFCI
IM2	Ice Bin	-	Follett	3 Dev 3005SG-4875	OFCI
IM3	Remote Condenser	-	Hoshizaki	URPC-14F	OFCI
JC1	Jib Crane	1.0	Gorbel	FS300-30-W24	OFOI
MP1	Multi Function Printer	-	-	-	OFOI
MS1	Meal Seat Furniture	-	-	-	OFOI
MM1	Microwave	1.0	TBD	TBD	OFOI
OT1	40W Tank 110 Gallon	4.0	Roth	DWT 400L	OFCI
OT2	Motor Oil Tank 275 Gallon	1.0	Roth	DWT 1000L	OFCI
PJ1	Projector	-	Christie Digital	DMU300-3S	OFOI
PJ2	Projector Ceiling Mount	-	Chief	VCMU	OFOI
PJ3	Projection Screen	-	Screen Innovations	5VMA1160SL12	OFOI
PP1	Pressure Washer	-	AaLadin	8000 Series	OFOI
RF1	Refrigerator	1.0	TBD	TBD	OFCI
RL1	Water Reel	1.0	Cox Reel	EZ-P-PLP-450	OFCI
RL2	Compressed Air Reel	-	Cox Reel	EZ-P-PLP-350	OFCI
RL3	Electric Reel	-	Cox Reel	EZ-P-C13-5012-B	OFCI
RL4	Compressed Air Reel	3.0	Balcrank	2140-008	OFCI
RL5	Oil Reel	8.0	Balcrank	2140-014	OFCI
RL6	Electric Cord Reel	2.0	Graco	24Y864	OFCI
ST1	3' Pallet Rack	-	-	-	OFOI
ST2	30" Pallet Rack	-	-	-	OFOI
ST3	Welded Storage Closet	-	-	-	OFOI
TV1	75" TV	-	Samsung	QM69R	OFOI
TV2	65" TV	-	Samsung	QM65R	OFOI
TV3	75" TV	-	Samsung	QM75R	OFOI
TV4	98" TV	-	Samsung	QM98T	OFOI
TVM1	TV Swivel Mount	-	TBD	TBD	OFOI
TVM2	80" x 60" Snap Mount	-	Chief	SM4-TL	OFOI
TVM3	98" Wall Mount	-	One	XTM1U	OFOI
VC1	Vacuum	-	JE Adams	9225.0	OFCI
VM1	Vending Machine	-	Timothy	TBD	OFOI
WB1	Water Bottle Rack	-	-	-	OFOI
WC1	Water Cooler	-	-	-	OFOI
WS1	Washer	-	TBD	TBD	OFCI

NOTE: NOT ALL EQUIPMENT ITEMS MAY BE USED IN THIS BUILDING.

ABBREVIATIONS

OF - OWNER FURNISHED
OI - OWNER INSTALLED
CF - CONTRACTOR FURNISHED
CI - CONTRACTOR INSTALLED
VF - VENDOR FURNISHED
VI - VENDOR INSTALLED

SIGNAGE SCHEDULE				
DOOR NUMBER	SIGNAGE TYPE	NUMBER ON SIGNAGE	ROOM NAME ON SIGNAGE	COMMENTS
101	A	101	OFFICE	-
102	A	102	AHU	-
103	A	103	IT	-
104	A	104	STORAGE	-
105	A	105	COMMON AREA	-
106	A	106	LOCKERS	-
107	C	107	RESTROOM	-
109	A	109	JANITOR	-
100B	A	110	OIL STORAGE	-
111	A	111	PARTS ROOM	-

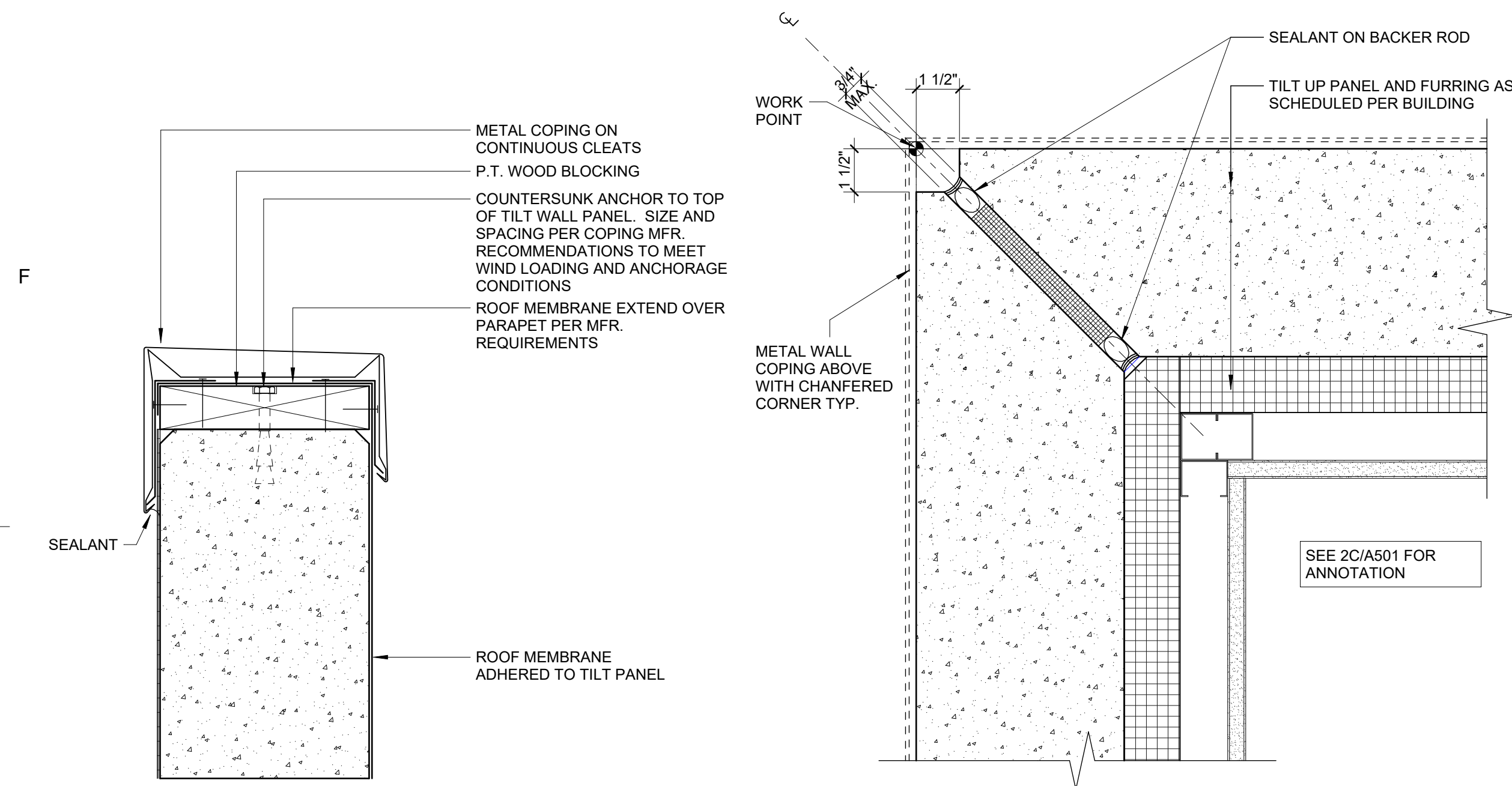
NOTE: FINAL ROOM NUMBER AND NAME TO BE COORDINATED WITH AND APPROVED BY FPL AND THE ARCHITECT

FINISH MATERIAL SCHEDULE								
Key Name	DESCRIPTION	MANUFACTURER	FINISH DESCRIPTION				INSTALL NOTES	COMMENTS
			STYLE	SIZE	PRODUCT NUMBER	COLOR		
FLOORING								
CPT-1 EFG-1	CARPET TILE EPOXY FLOOR COATING	INTERFACE VERSATILE BUILDING PRODUCTS	SEW STRAIGHT ROLL ON ROCK	50CM X 50CM		SERPENTINE GRAPHITE	BRICK PATTERN	
FT-1	PORCELAIN FLOOR TILE	DALTILE	HAUT MONDE	12" X12"		EMPIRE BLACK - UNPOLISHED ASH GRAY	USE GRT-2	DALTILE OF SIMILAR SIZE AND COLOR MAY BE CHOSEN GIVEN TILE'S AVAILABILITY
RF-1 SCON-1	RUBBER FLOORING SEALED CONCRETE	DALTILE ARMOUR RUBBER	PORTFOLIO LIGHT COMMERCIA LATEX SYSTEM - TRANSPARENT FINISH	2" X 2" 24" X 24"				TWO COATS: H&C HYDRO-DEFEND WATER-BASED CONCRETE & MASONRY WATERPROOFING SEALER
SDT-1 VCT-1	STATIC DISSIPATIVE TILE VINYL CMPOSITION TILE	ARMSTRONG ARMSTRONG - STANDARD EXCELRON	EXCELRON STD IMPERIAL TEXTURE	12" X12" 12" X 12"		FOSSIL GRAY SOFT WARM GRAY		
CEILING								
APC-1 P-1 P-8 P-9 P-10	ACOUSTIC PANEL CEILING PAINT PAINT PAINT PAINT	ARMSTRONG SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS	LATEX EGGSHELL DRYFALL LATEX EGGSHELL LATEX EGGSHELL	2' X 2'		WHITE PURE WHITE BLACK SEE P-1 CITYSCAPE	PAINTED STRUCTURE	
WALL								
FRP-1 P-1 P-2 P-3 P-4 TP-1 US-1 WT-1	FIBER REINFORCED PANEL PAINT PAINT PAINT PAINT TOILET PARTICIAN URNIAL SCREEN PORCELAIN WALL TILE	MARLITE SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS SCRANTON SCRANTON	STANDARD - PEBBLED LATEX EGGSHELL LATEX EGGSHELL WATER BASED EPOXY LATEX EGGSHELL	4' X 8'		DARK GREY SNOWFALL SMOKY AZURITE SEE P-1 SHOUJI WHITE CONCRETE		
WT-2	TILE TRIM	DALTILE	HAUT MONDE	12" X 12"		GLITERATI GRANITE - UNPOLISHED	USE GRT-1	DALTILE OF SIMILAR SIZE AND COLOR MAY BE CHOSEN GIVEN TILE'S AVAILABILITY
						GLITERATI GRANITE - UNPOLISHED	USE GRT-1	DALTILE OF SIMILAR SIZE AND COLOR MAY BE CHOSEN GIVEN TILE'S AVAILABILITY
BASE								
RB-1 RB-2 TB-1	RUBBER BASE STRAIGHT BASE PORCELAIN BASE TILE	JOHNSONITE JOHNSONITE DALTILE	COVE 4" BULLNOSE PORCELAIN	4" 4" 6" X 12"		CHARCOAL CHARCOAL EMPIRE BLACK		
CASEWORK								
PL-1 SS-1	PLASTIC LAMINATE SOLID SURFACE	WILSONART CORIAN	FINE VELVET			NORDIC LINEN CARBON CONCRETE		UPPER AND BASE CABINETS
DOOR								
P-7 P-8	PAINT PAINT	SHERWIN WILLIAMS SHERWIN WILLIAMS	ACRYLIC COATING SYSTEM - SEMI GLOSS ACRYLIC COATING SYSTEM - SEMI GLOSS			SHOUJI WHITE CITYSCAPE		DOOR TRIM EXTERIOR DOOR FRAME
GROUT								
GRT-1 GRT-2	EPOXY GROUT EPOXY GROUT	LATICRETE LATICRETE	SPECTRALOCK PRO EPOXY SPECTRALOCK PRO EPOXY			24 NATURAL GREY 27 SILVER		USED FOR WALL TILE USED FOR FLOOR TILE
TRANSITION STRIP								
TS-1 TS-2	METAL FLOORING TRANSITION RUBBER FLOORING TRANSITION	JOHNSONITE	VCT TILE/CARPET ROLLING TRAFFIC TRANSITION			BRUSHED STAINLESS STEEL CHARCOAL		

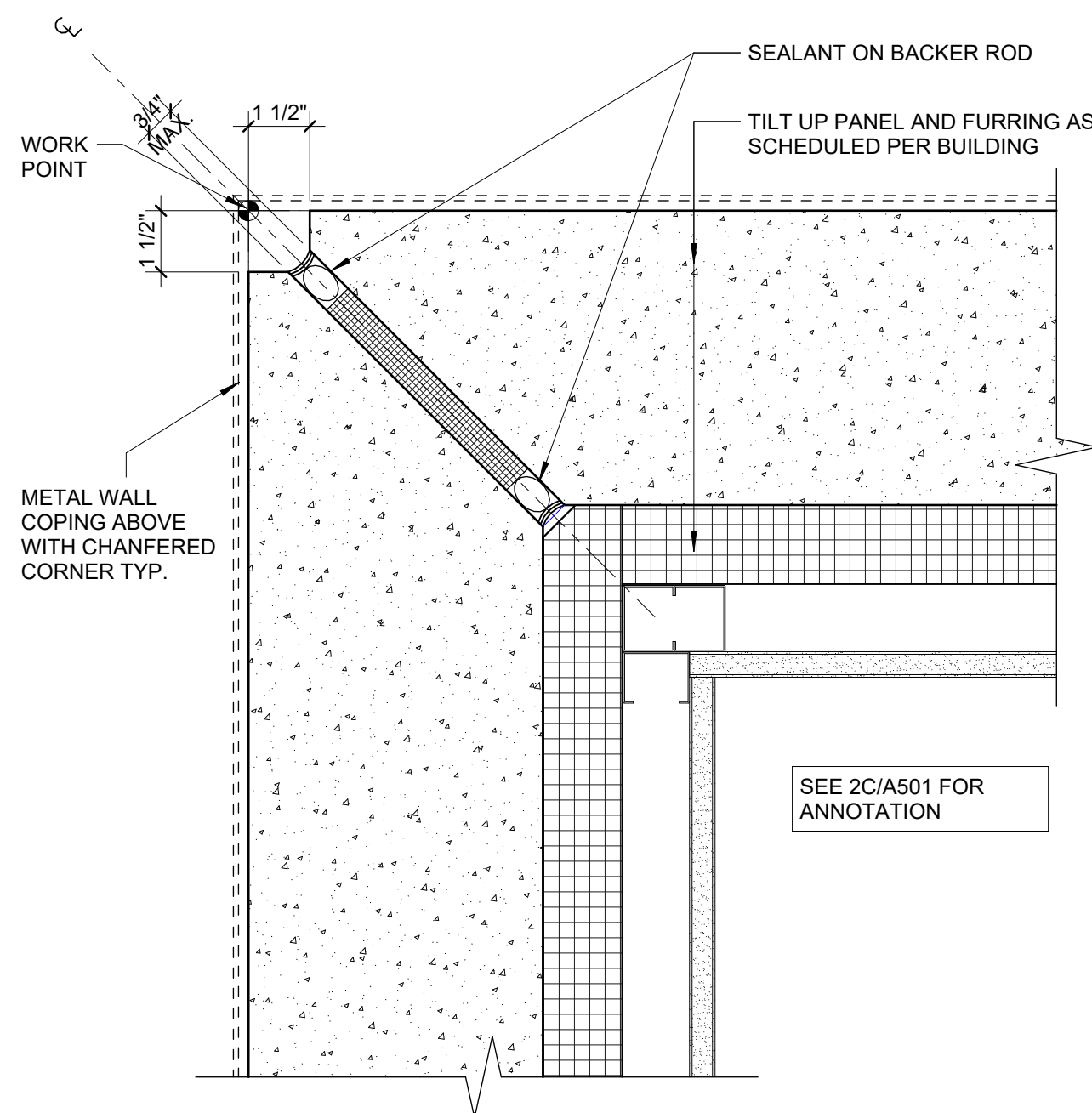
NOTE: NOT ALL FINISHES MAY BE USED IN THIS BUILDING.

GENERAL NOTES - FINISH MATERIAL SCHEDULE

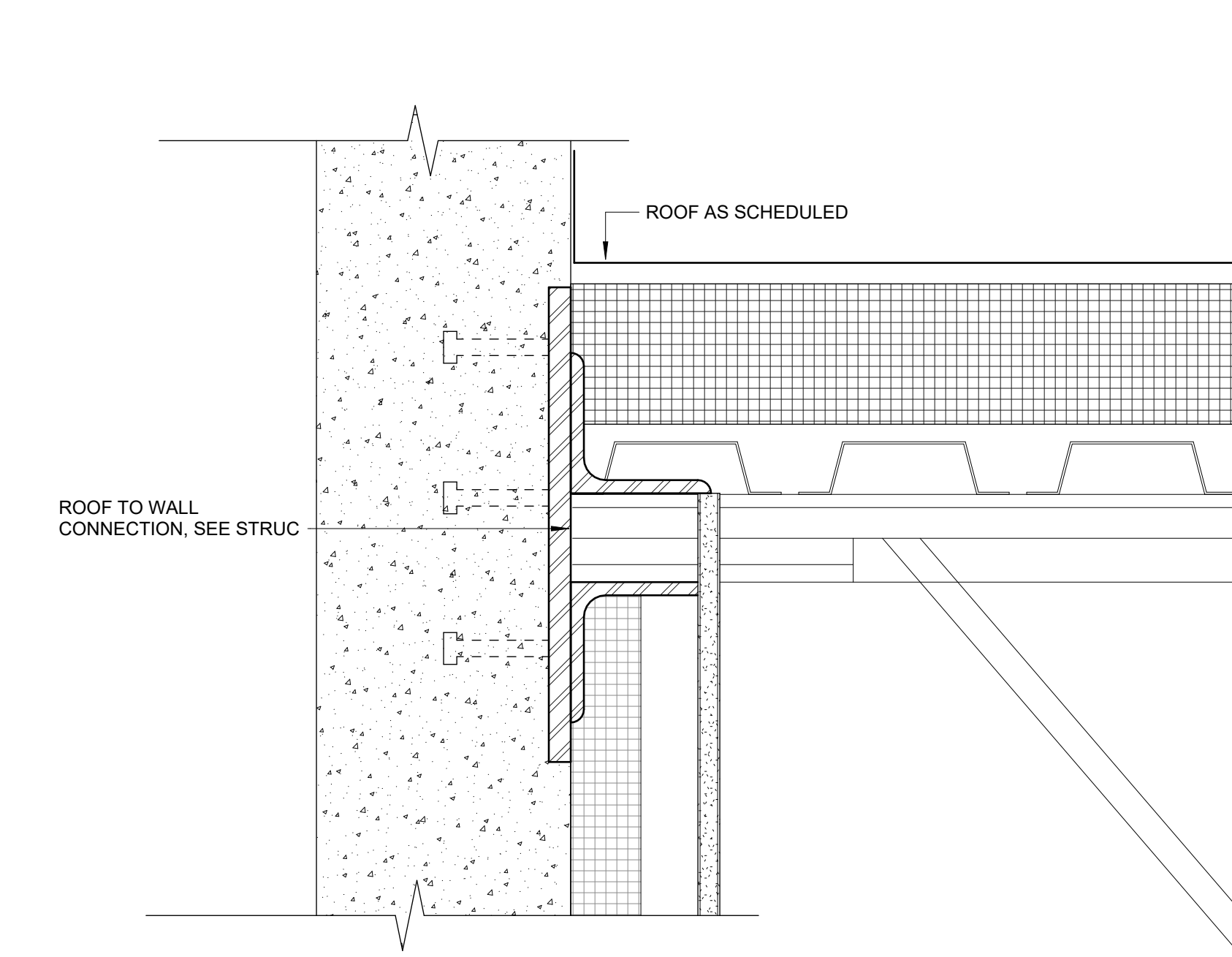
1. GROUT JOINTS FOR PORCELAIN TILE SHALL BE NO LARGER THAN 3/16



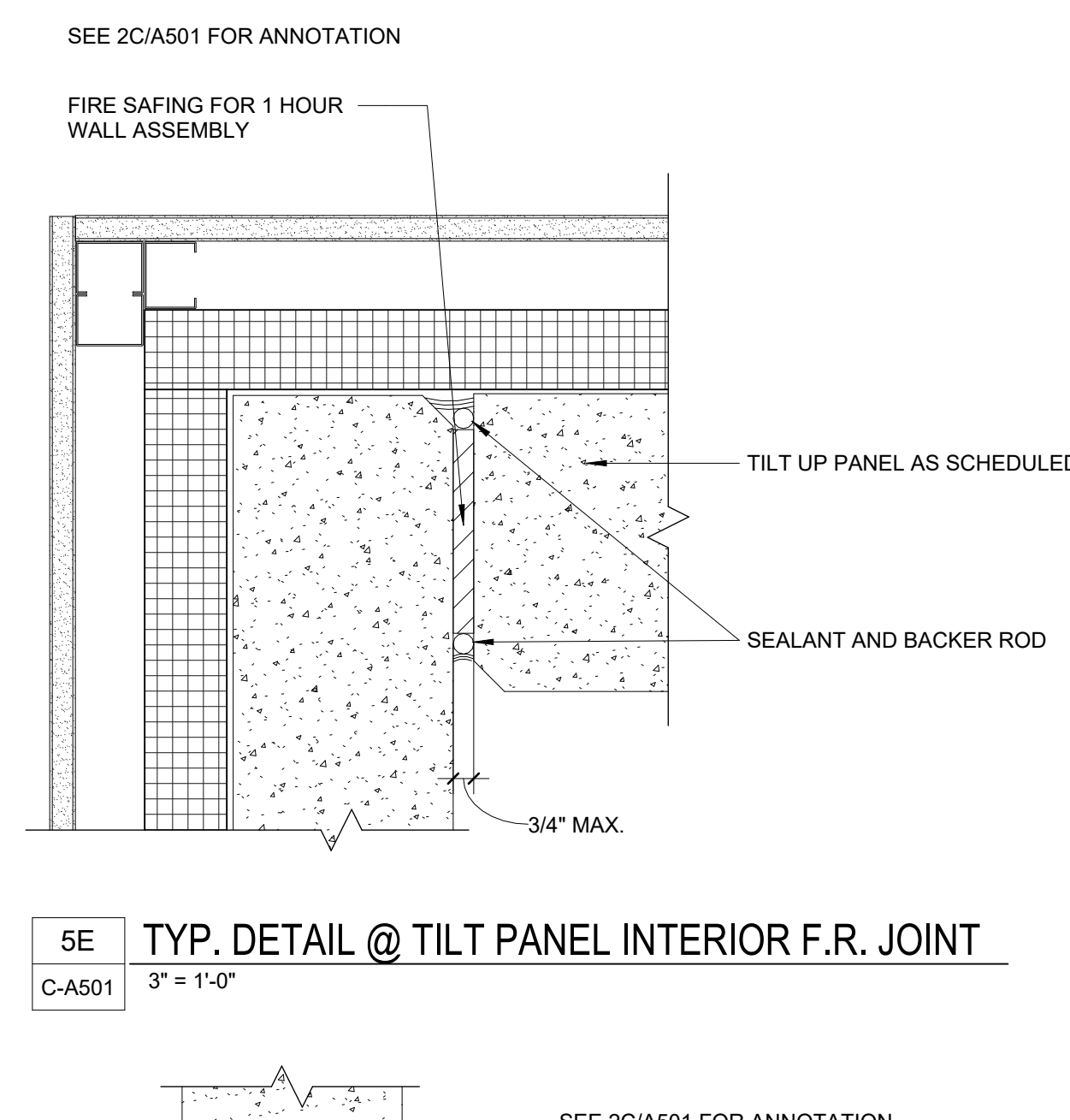
1E TYP. DETAIL @ TILT PANEL PARAPET
C-A501 3" = 1'-0"



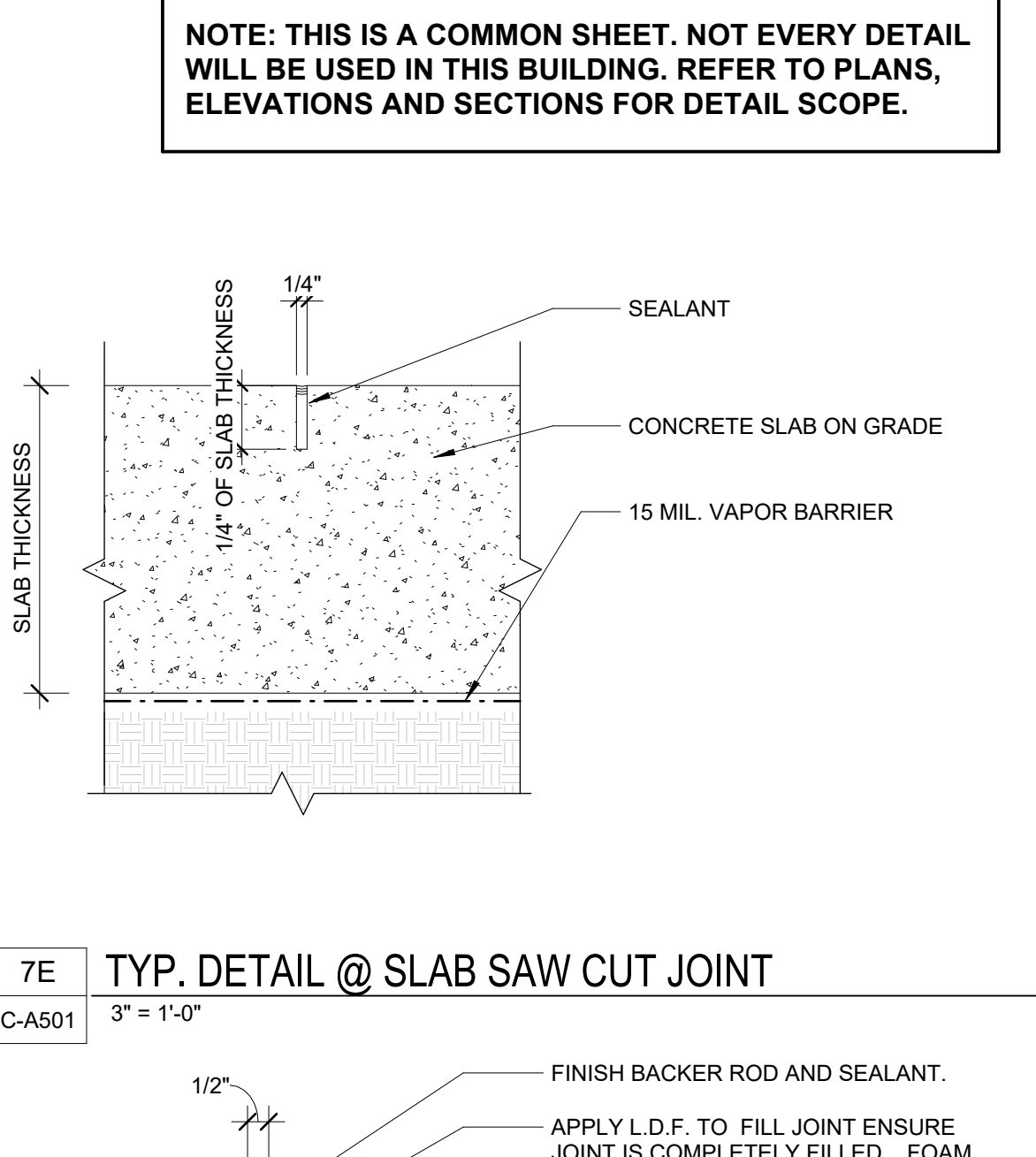
2E TYP. DETAIL @ MITERED OUTSIDE CORNER
C-A501 3" = 1'-0"



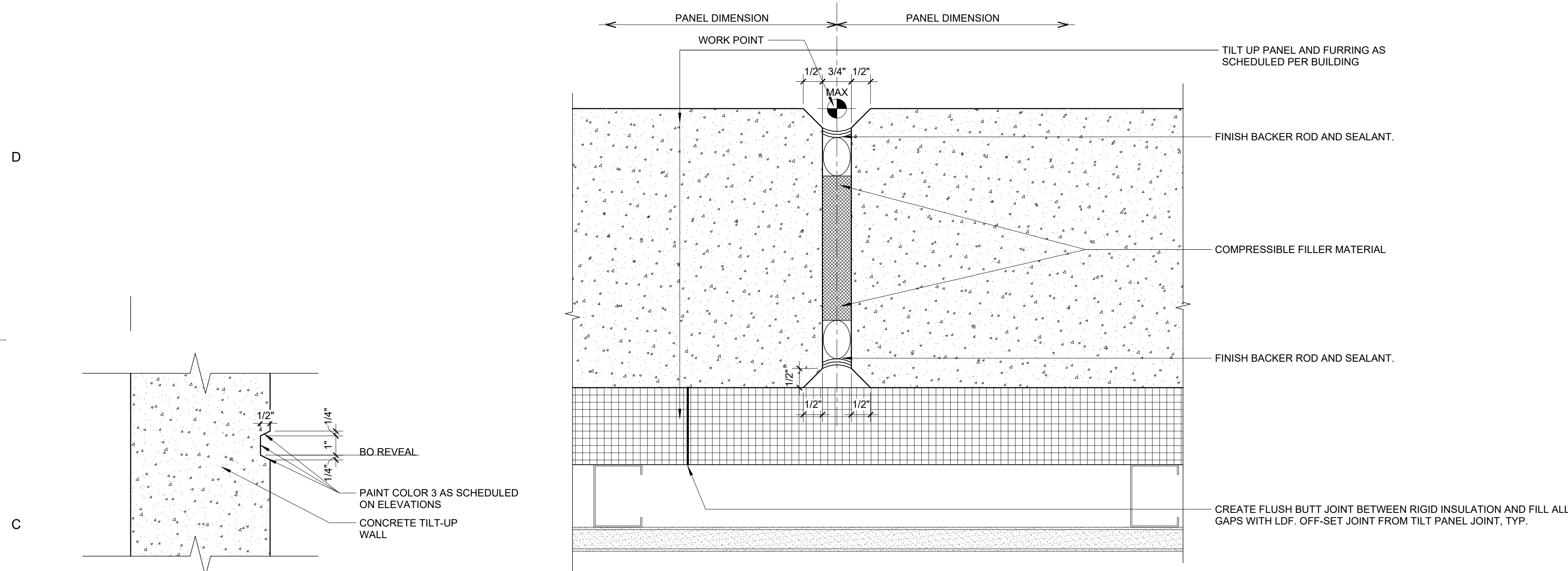
3E TYP. DETAIL @ TILT PANEL TO WALL
C-A501 3" = 1'-0"



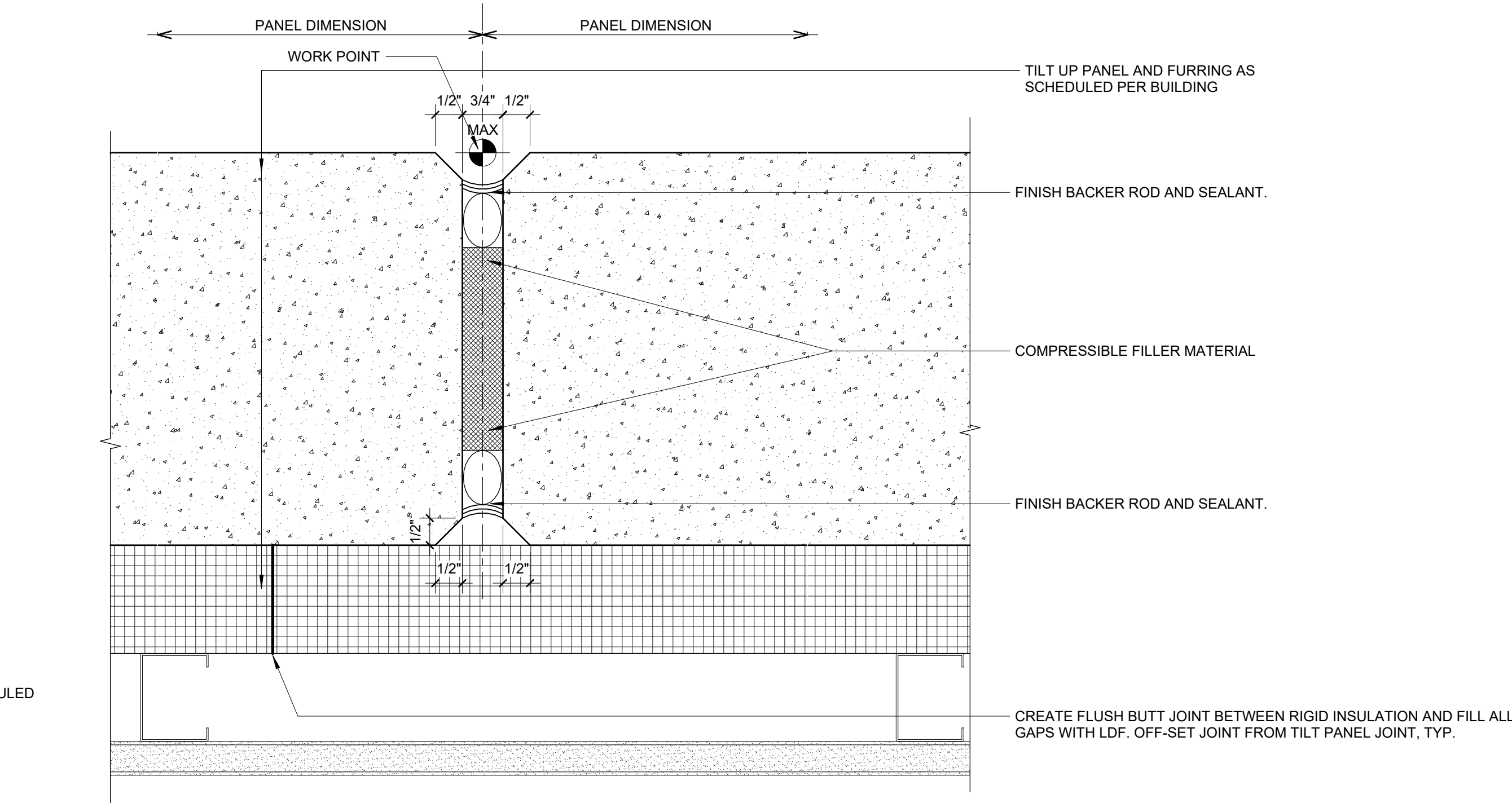
5E TYP. DETAIL @ TILT PANEL INTERIOR F.R. JOINT
C-A501 3" = 1'-0"



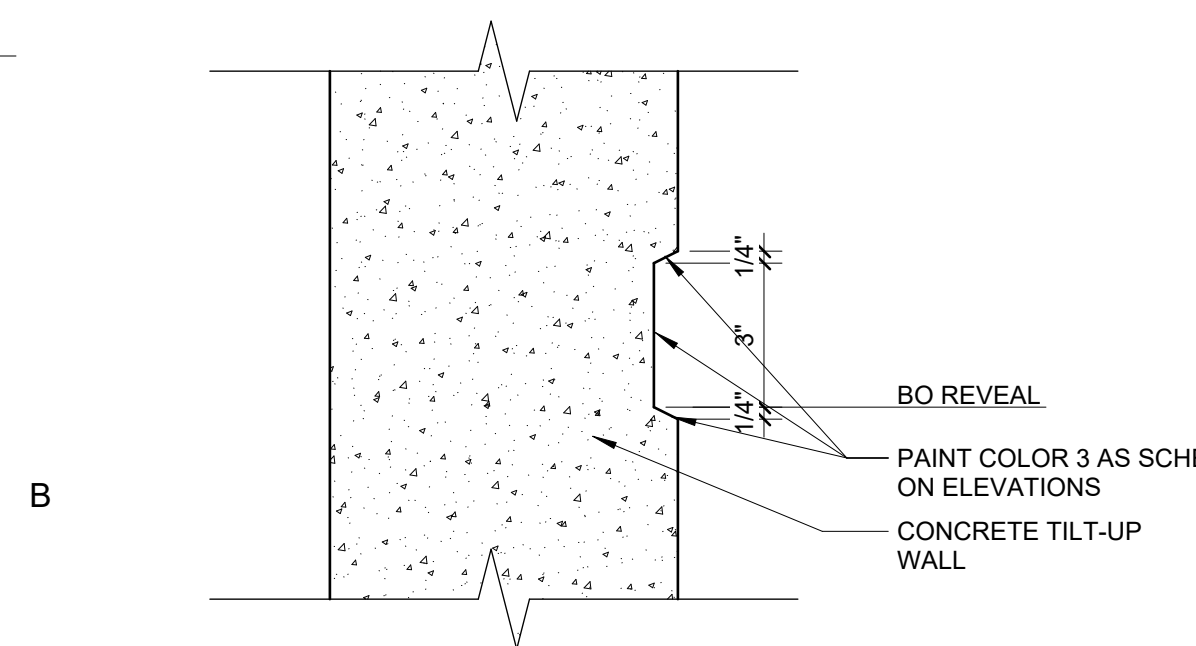
7E TYP. DETAIL @ SLAB SAW CUT JOINT
C-A501 3" = 1'-0"



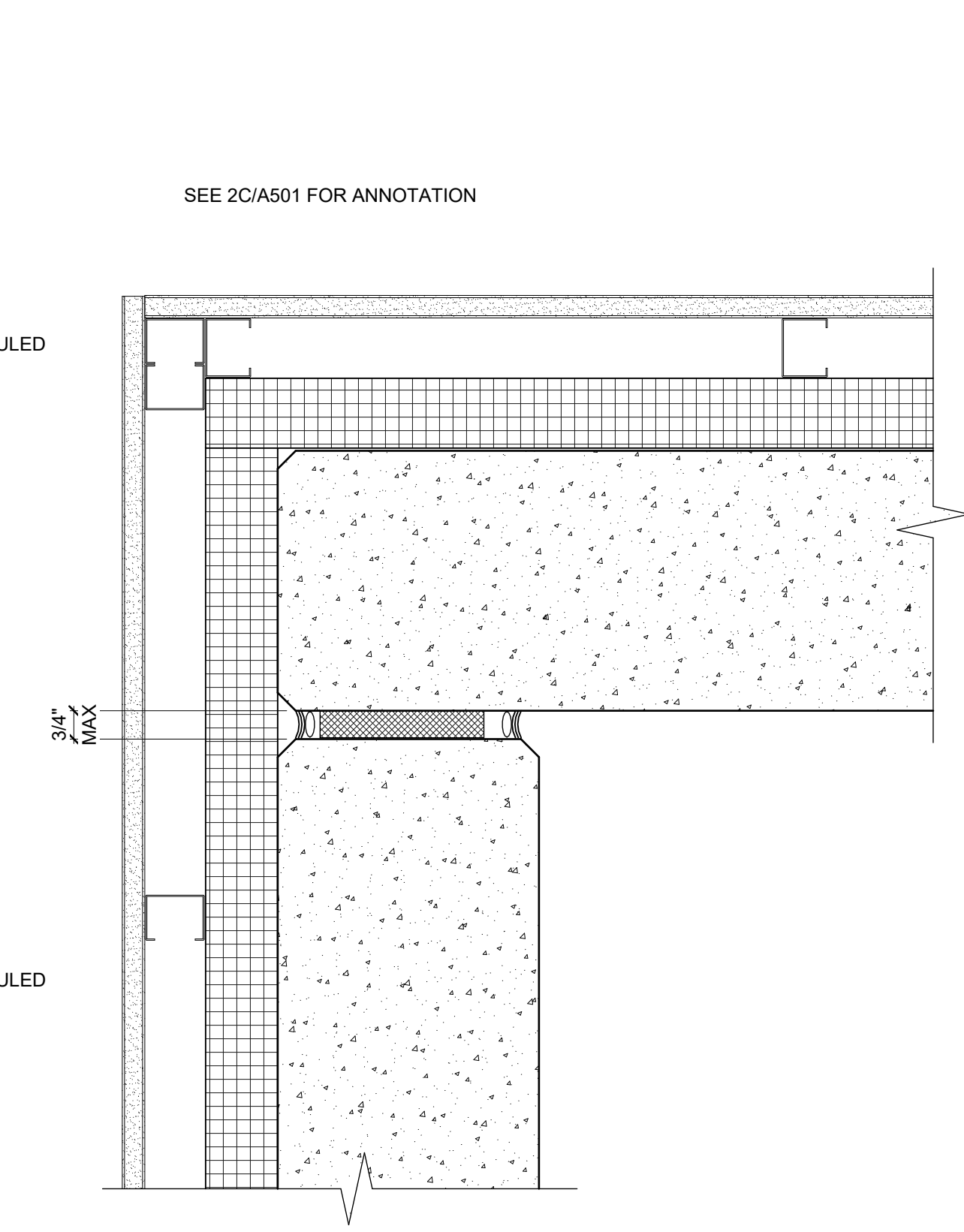
1C CONC. PANEL 1" REVEAL
C-A501 3" = 1'-0"



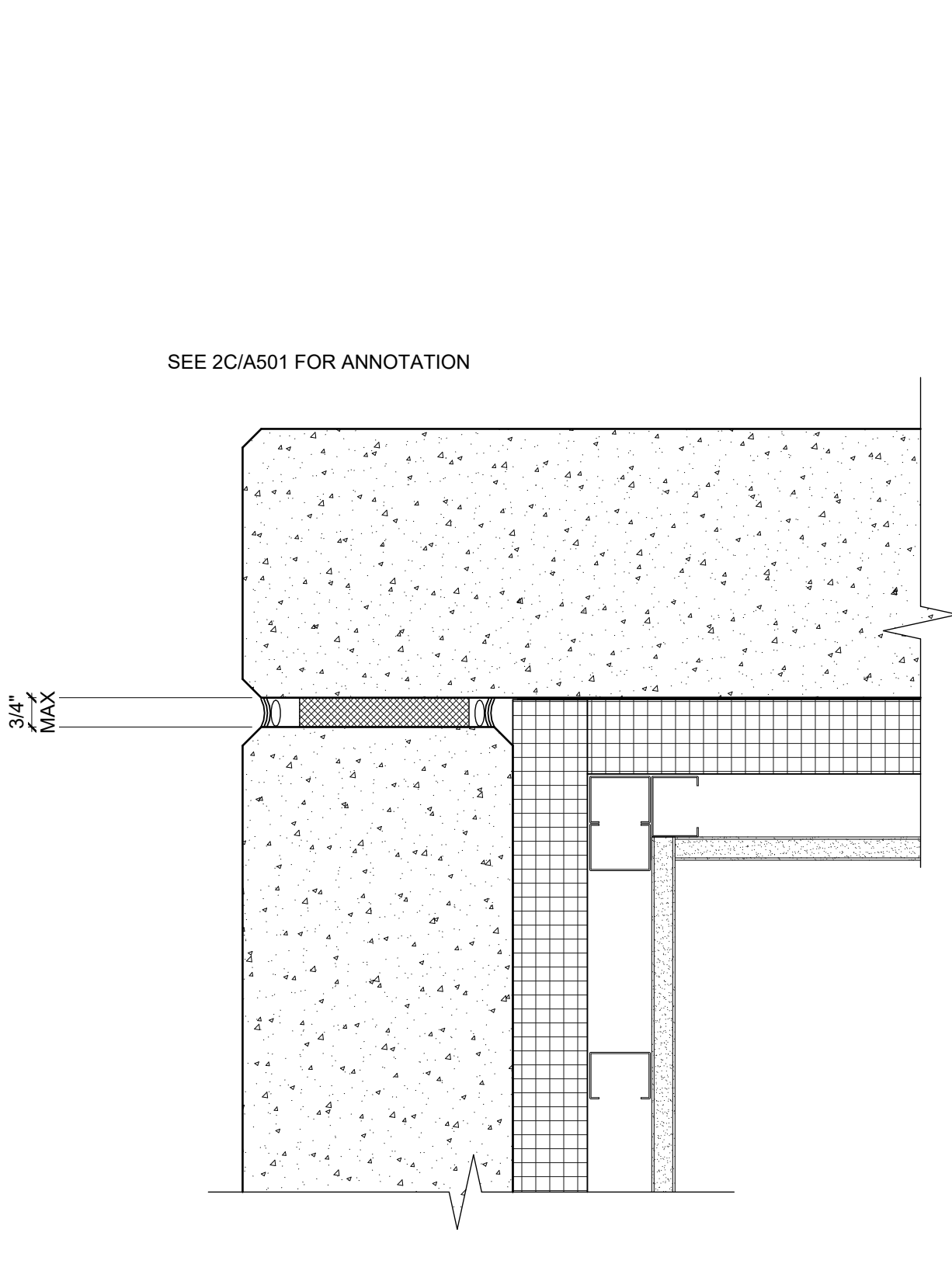
2C TYP. DETAIL @ TILT PANEL JOINTS
C-A501 6" = 1'-0"



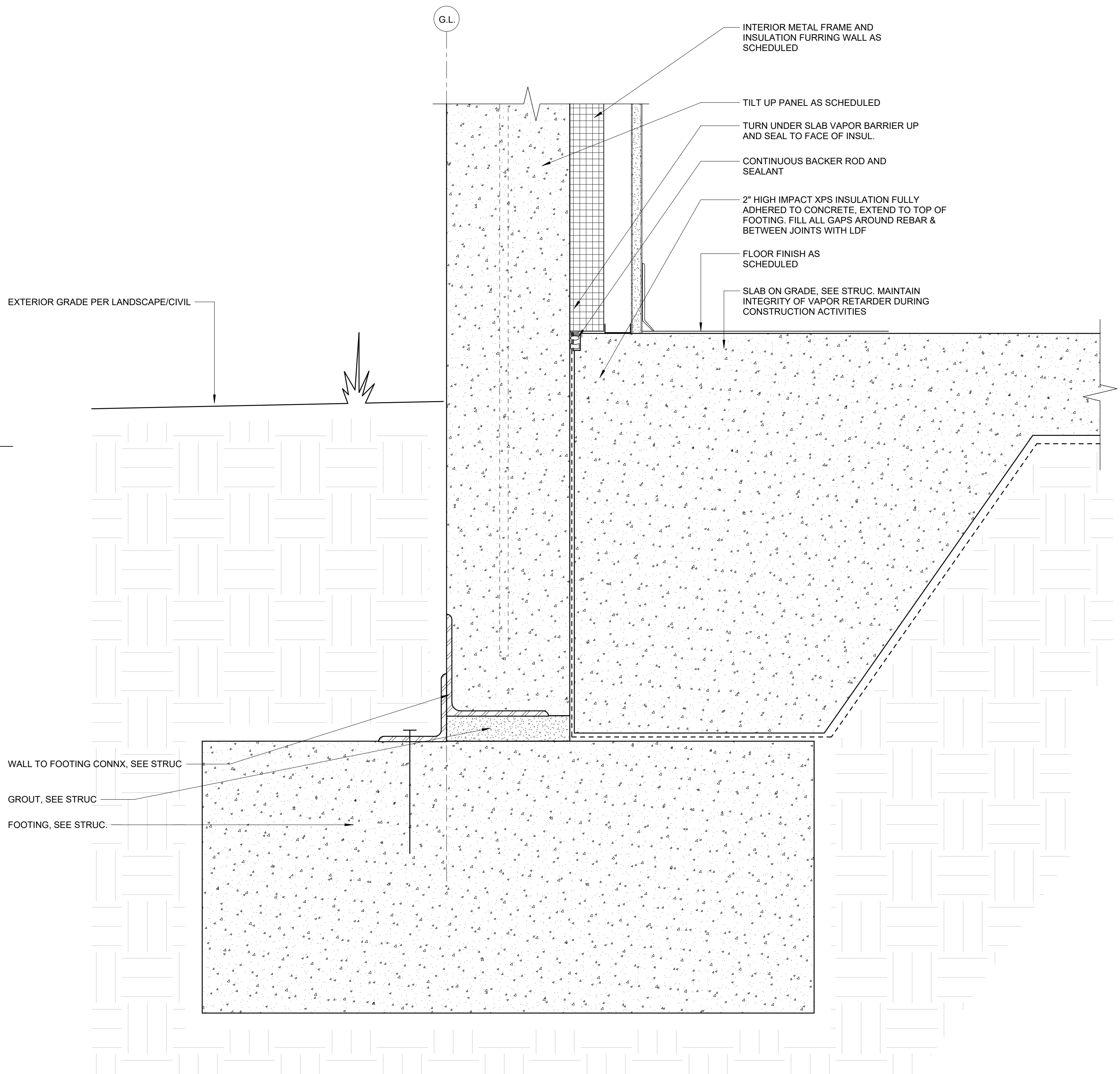
1B CONC. PANEL 3" REVEAL
C-A501 3" = 1'-0"



2A TYP. DETAIL @ TILT PANEL INSIDE CORNER
C-A501 3" = 1'-0"



3A TYP. DETAIL @ TILT PANEL OUTSIDE CORNER
C-A501 3" = 1'-0"



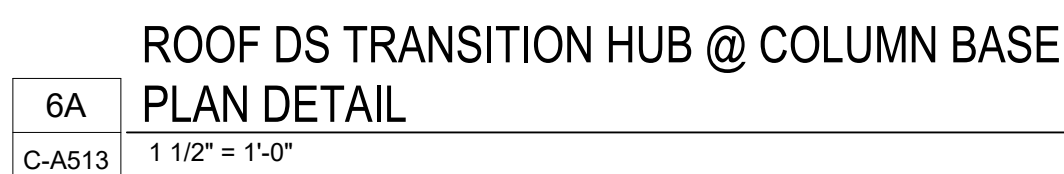
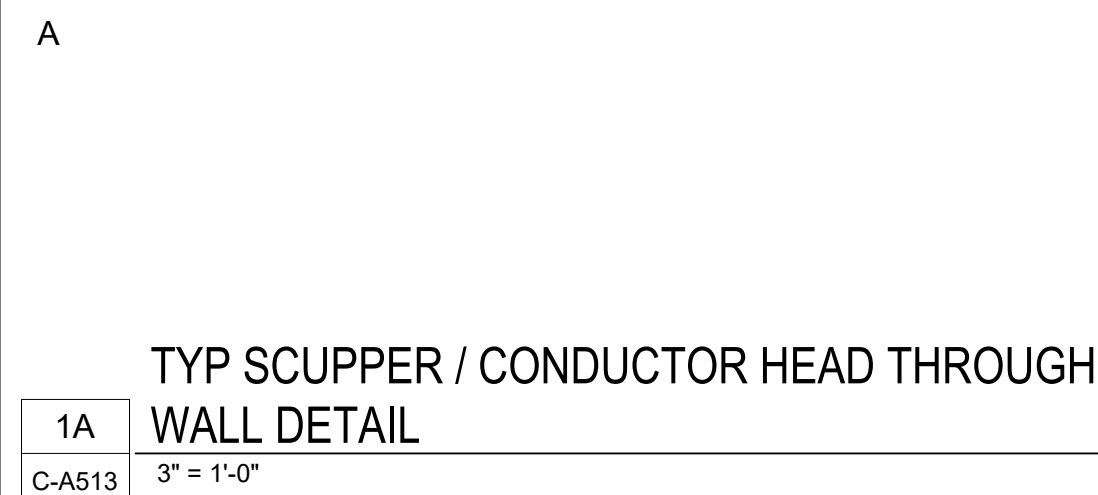
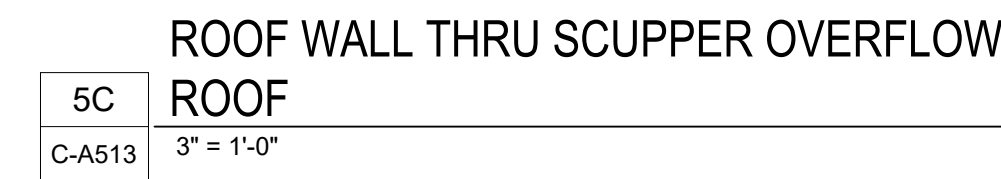
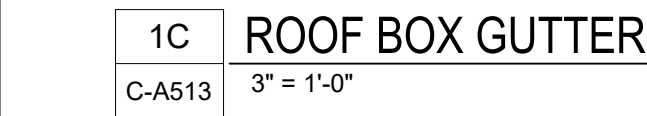
5A FLOOR SLAB TO WALL PANEL
C-A501 3" = 1'-0"

NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.



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2/25/2026

D.	REASON	DATE
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PRINCIPAL IN CHARGE

PROJECT MANAGER

BENJAMIN BOYLES

REL-COMMUNITY

COLUMBIA GEORGIA

PROCESSING & SERVICE

ENTER - BUILDING C -
VEHICLE MAINTENANCE

ARAGE

355 NW COUNTY ROAD 25
LAKE CITY, FL

PROJECT NO. _____

14C632800

2005 DETAILS

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References

C-A513

F

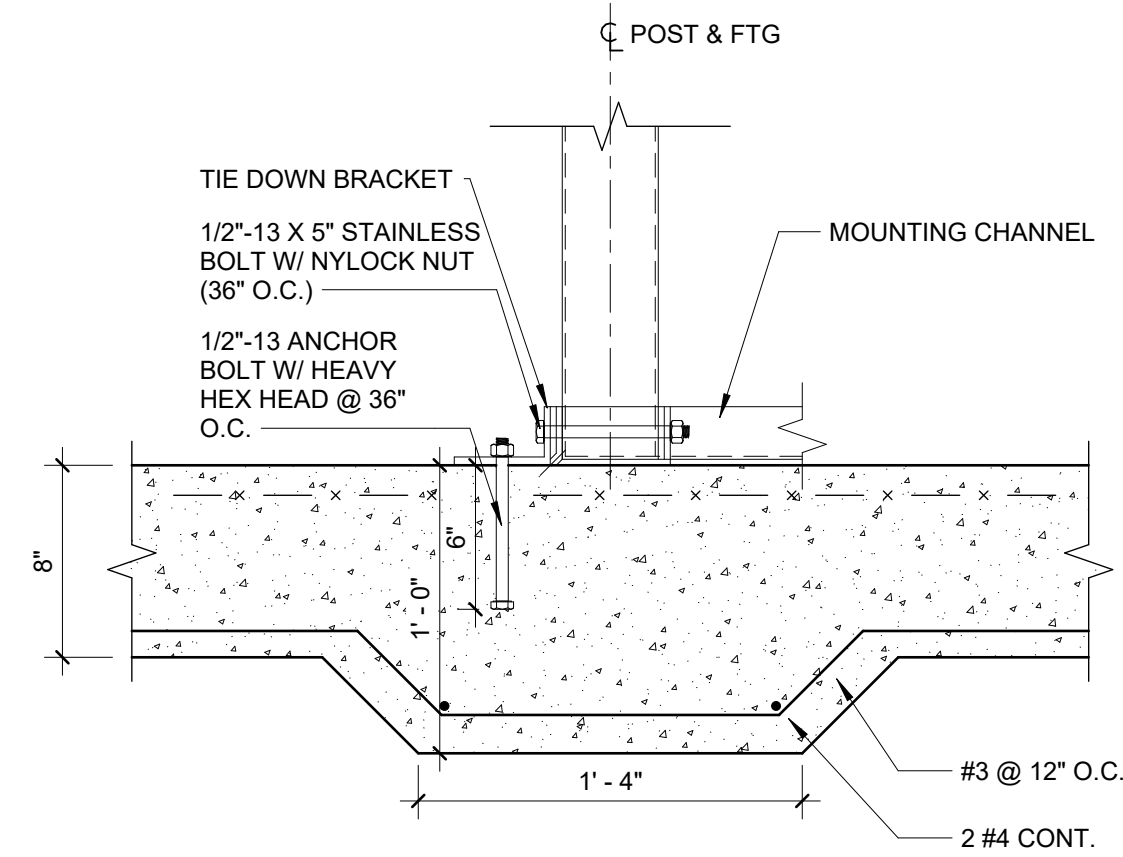
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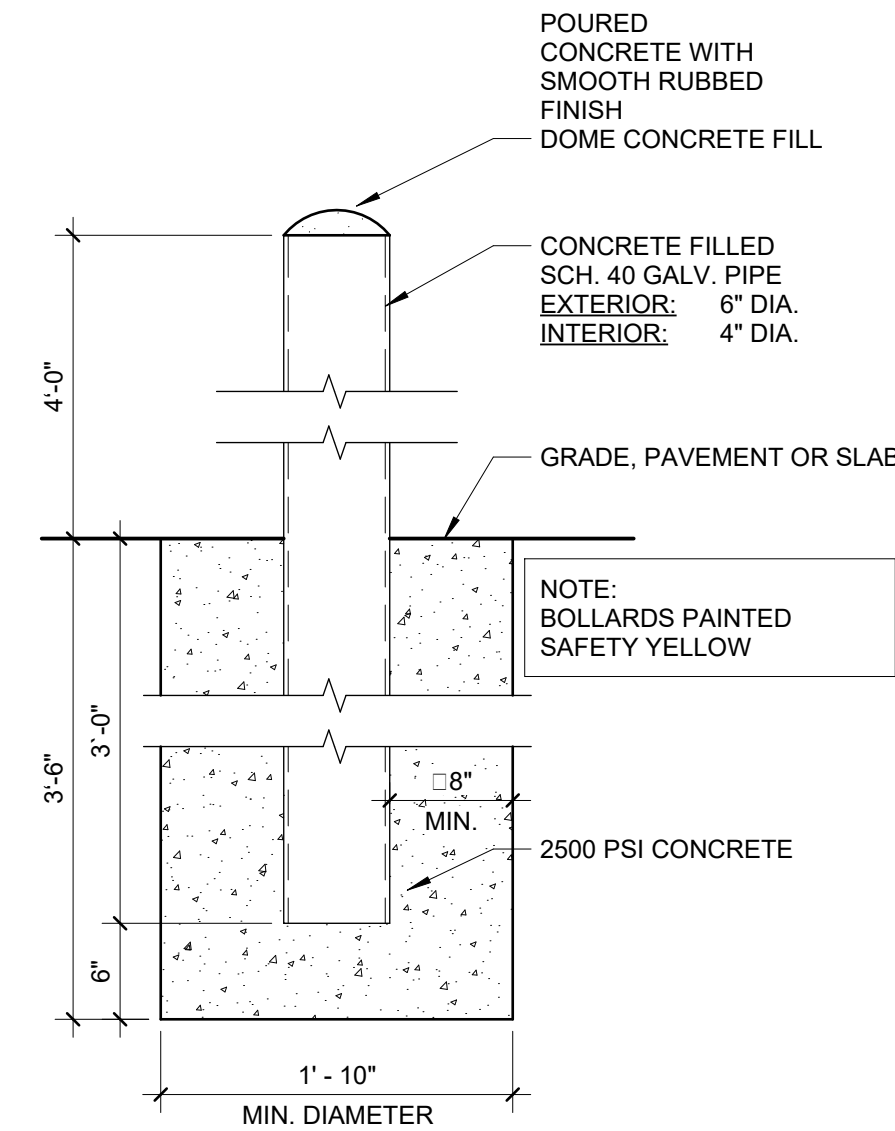
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B

A



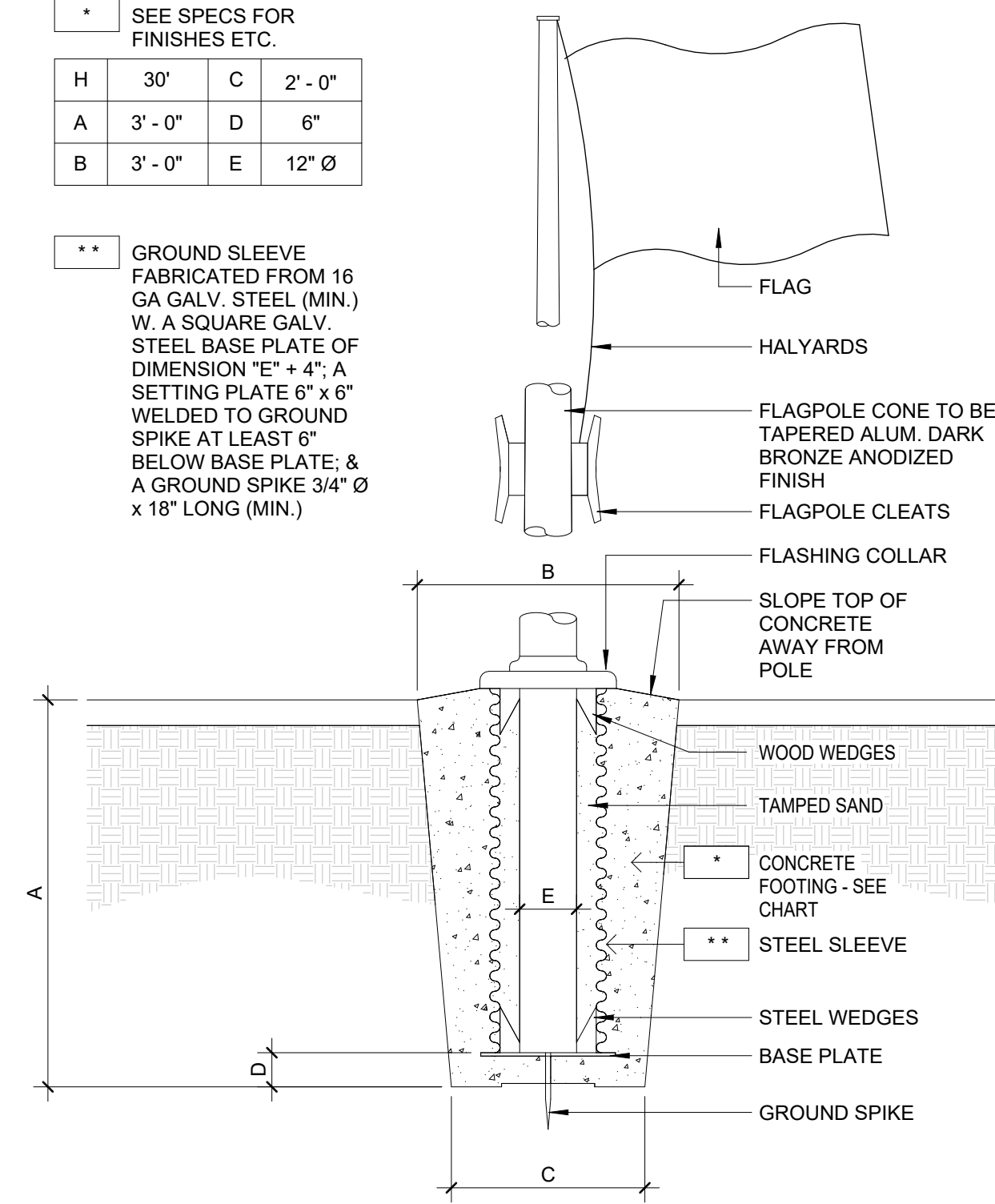
9	GENERATOR ATTACHMENT DETAIL
C-A521	1 1/2" = 1'-0"



10	CONCRETE-FILLED STEEL BOLLARD
C-A521	1" = 1'-0"

* SEE SPECS FOR FINISHES ETC.			
H	30"	C	2" - 0"
A	3' - 0"	D	6"
B	3' - 0"	E	12" Ø

GROUND SLEEVE
FABRICATED FROM 16
GA GALV. STEEL (MIN.)
W. A SQUARE GALV.
STEEL BASE PLATE OF
DIMENSION "E" + 4"; A
SETTING PLATE 6" x 6"
WELDED TO GROUND
SPIKE AT LEAST 6"
BELOW BASE PLATE; &
A GROUND SPIKE 3/4"
x 18" LONG (MIN.)



11	FLAG POLE DETAIL
C-A521	1/2" = 1'-0"

NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.

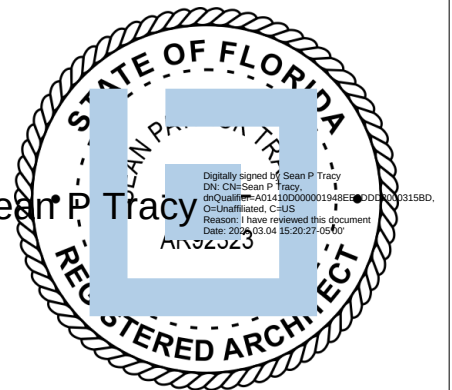
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CONSTRUCTION
DOCUMENTS

02/25/2026

DISPOSITIONS		
D.O.	REASON	DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
KEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES
DESIGN TEAM
WRL-COMMUNITY
PROJECT NAME

COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
BAY
355 NW COUNTY ROAD 25A,
LAKE CITY, FL

14C632800

SITE DETAILS

ET NUMBER

C-A521

NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.

SIGNAGE NOTES

1. CHARACTERS & SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUNDS. EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. ALL MECHANICAL ATTACHMENTS TO BE CONCEALED.
3. IF THE ACTIVE LEAF OF THE DOOR SWINGS OUT INTO THE CLEAR AREA REQUIRED IN FRONT OF THE SIGN, PROVIDE A 90 DEGREE MAXIMUM INHIBITOR TYPE CLOSER.
4. LOCATE SIGN OUTSIDE OF DOOR ENTERING ROOM ADJACENT TO THE LATCH SIDE OF THE DOOR PER PLAN.
5. FINAL VERBIAGE OF SIGNAGE TO BE APPROVED BY TENANT EXCEPT WHERE DICTATED BY CODES OR GUIDELINES.
6. ALL SIGNAGE SHALL MEET OR EXCEED FLORIDA ACCESSIBILITY CODE SECTIONS 216 AND 703 GUIDELINES.
7. FDC SIGNAGE TO BE PLACED AT ALL FIRE DEPARTMENT CONNECTIONS.
8. CONTRACTOR TO VERIFY FINAL QUANTITY AND LOCATION OF SIGNAGE AS REQUIRED BY TENANT'S PROGRAM REQUIREMENTS.
9. FINAL GRAPHICS FOR EVACUATION MAP SIGNAGE TO BE COORDINATED WITH ARCHITECT AND LIFE SAFTEY DRAWINGS
10. CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL CODE REQUIRED SIGNAGE AND/OR LABELING OF SPACES, ROOMS AND DEVICES INCLUDING ITEMS ON SHEET A-700 AND A-601 DOOR SCHEDULE
11. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION ONLY OF FPL NAME PLATE SIGNAGE (ROOM NAME OR SEAT NUMBER) FOR INDIVIDUAL WORKSTATIONS, CONFERENCE ROOMS, OFFICES, MISC. ROOMS, ECT. THAT ARE INCLUDED IN THE SPACE AND MADE PART OF THE PROJECT. THE OWNER WILL PROVIDE THE FPL NAME PLATE SIGNAGE FOR CONTRACTORS INSTALLATION.

BRAILLE NOTES

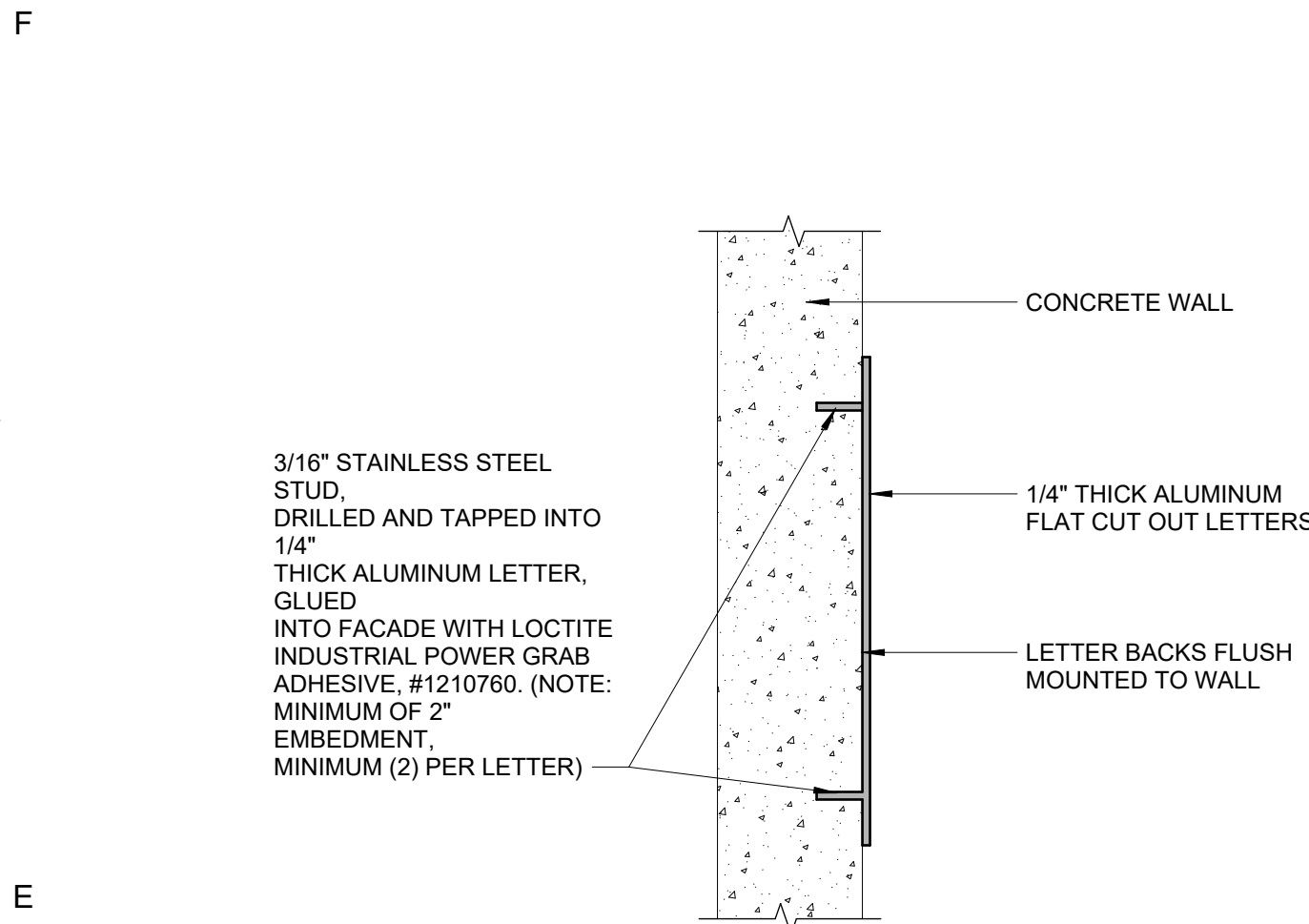
1. CHARACTER TYPE AND SIZE:
CHARACTERS ON SIGNS SHALL BE RAISED 1/32". UPPER CASE. SANS SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE II BRAILLE. RAISE CHARACTERS SHALL BE AT LEAST 5/8" HIGH, BUT NOT HIGHER THAN 2".
2. LITERARY BRAILLE STANDARD DIMENSIONS:
GRADE II BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED. INDIVIDUAL BRAILLE DOTS SHALL EACH BE DISTINCT AND SEPARATE. EACH DOT SHALL BE ROUNDED OR DOMED AND SHALL COMPLY WITH TABLE 703.3.1 FLORIDA ACCESSIBILITY CODE.
3. FINISH AND CONTRAST:
CHARACTERS, SYMBOLS, AND THEIR BACKGROUNDS SHALL HAVE A NON-GLARE FINISH AND CONTRAST 70% MIN. WITH THEIR BACKGROUNDS.
CHARACTERS, SYMBOLS, & FRAME - 'APCO' COLOR #A02 BLACK
BACKGROUND - 'APCO' COLOR #A89 SILVER
4. PROPORTIONS:
CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 55 PERCENT MINIMUM AND 110 PERCENT OF THE HEIGHT OF THE UPPERCASE LETTER "I" - 703.2.4 (FAC)
5. CONTRACTOR TO SUBMIT A SCHEDULE TO VERIFY ALL PERMANENT NUMBERS AND TEXT PRIOR TO FABRICATION.

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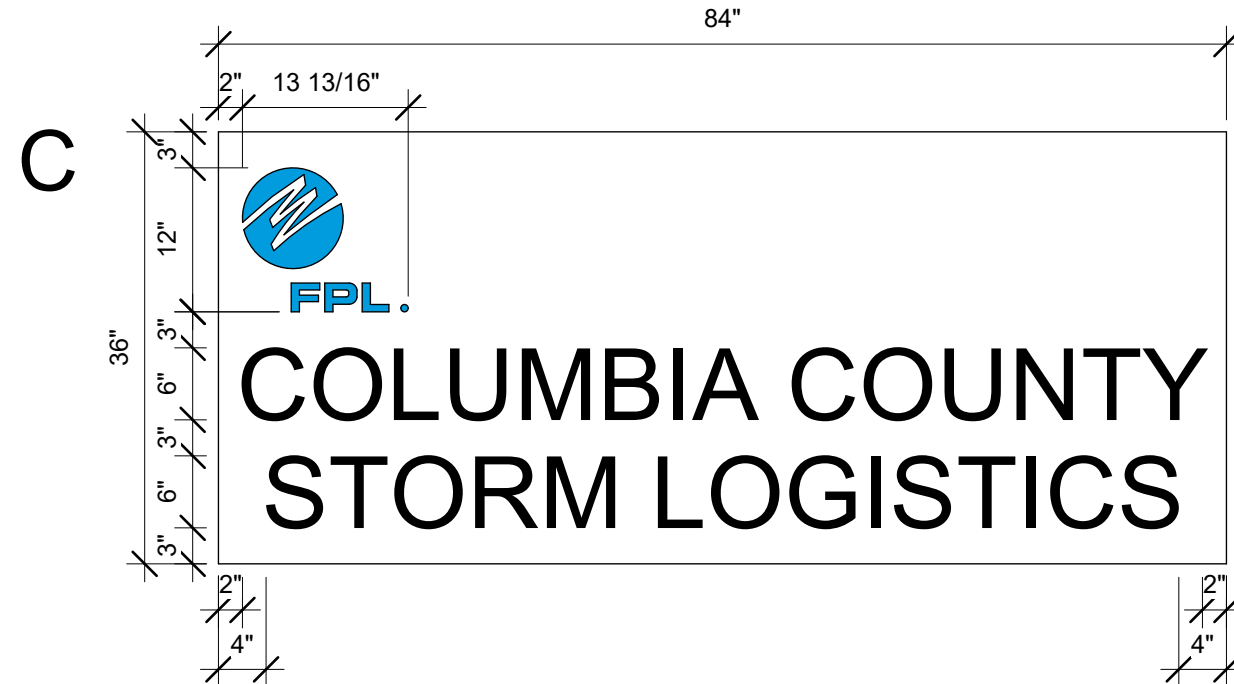
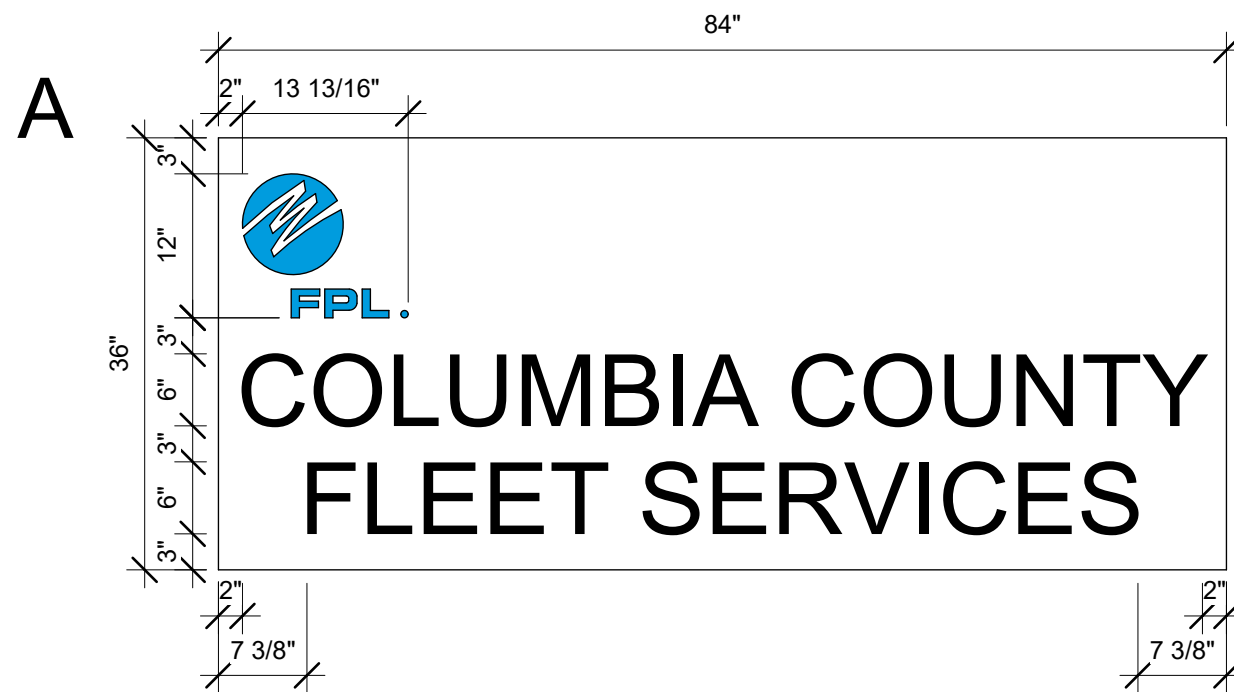
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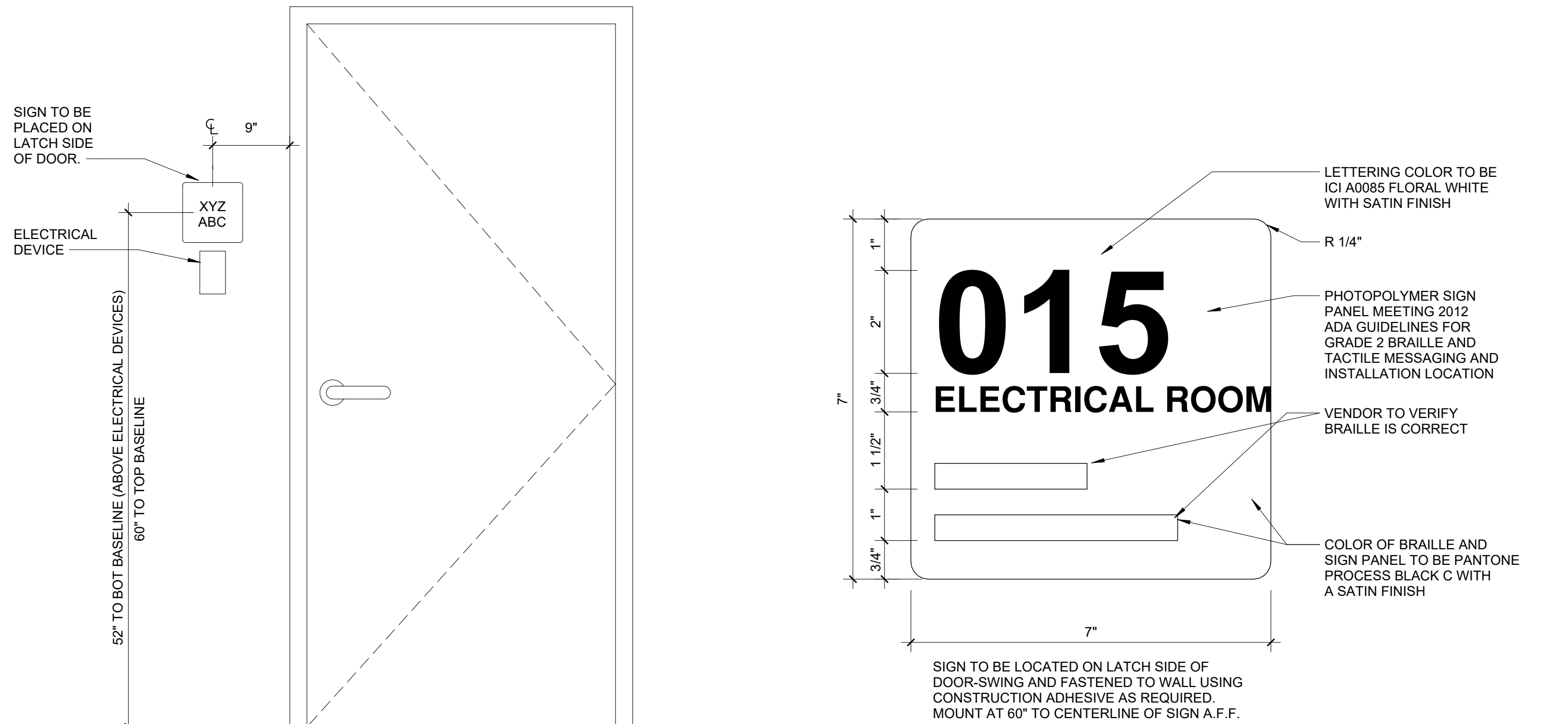


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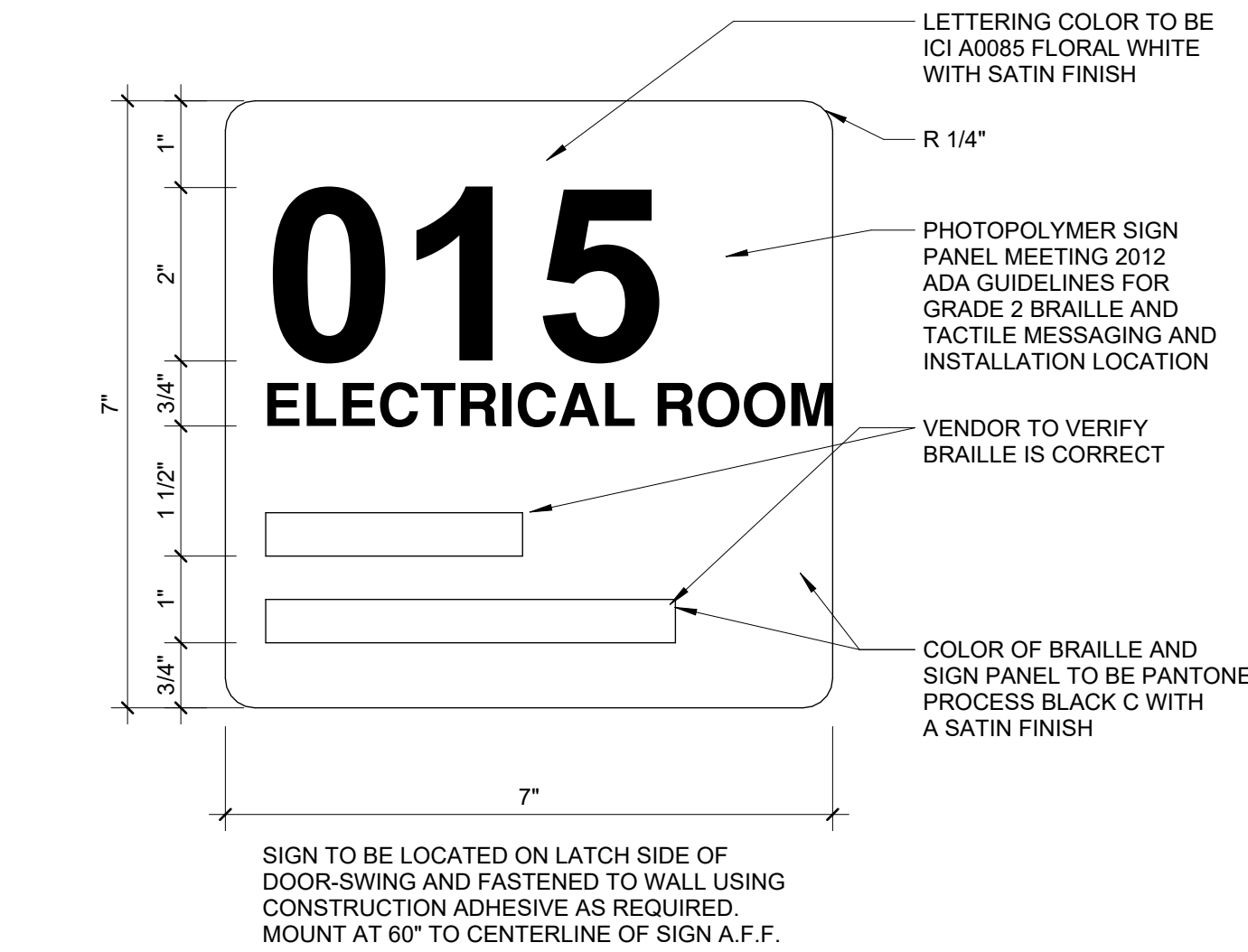
1 ADDRESS NUMBERS MOUNTING DETAIL
C-A601 NOT TO SCALE



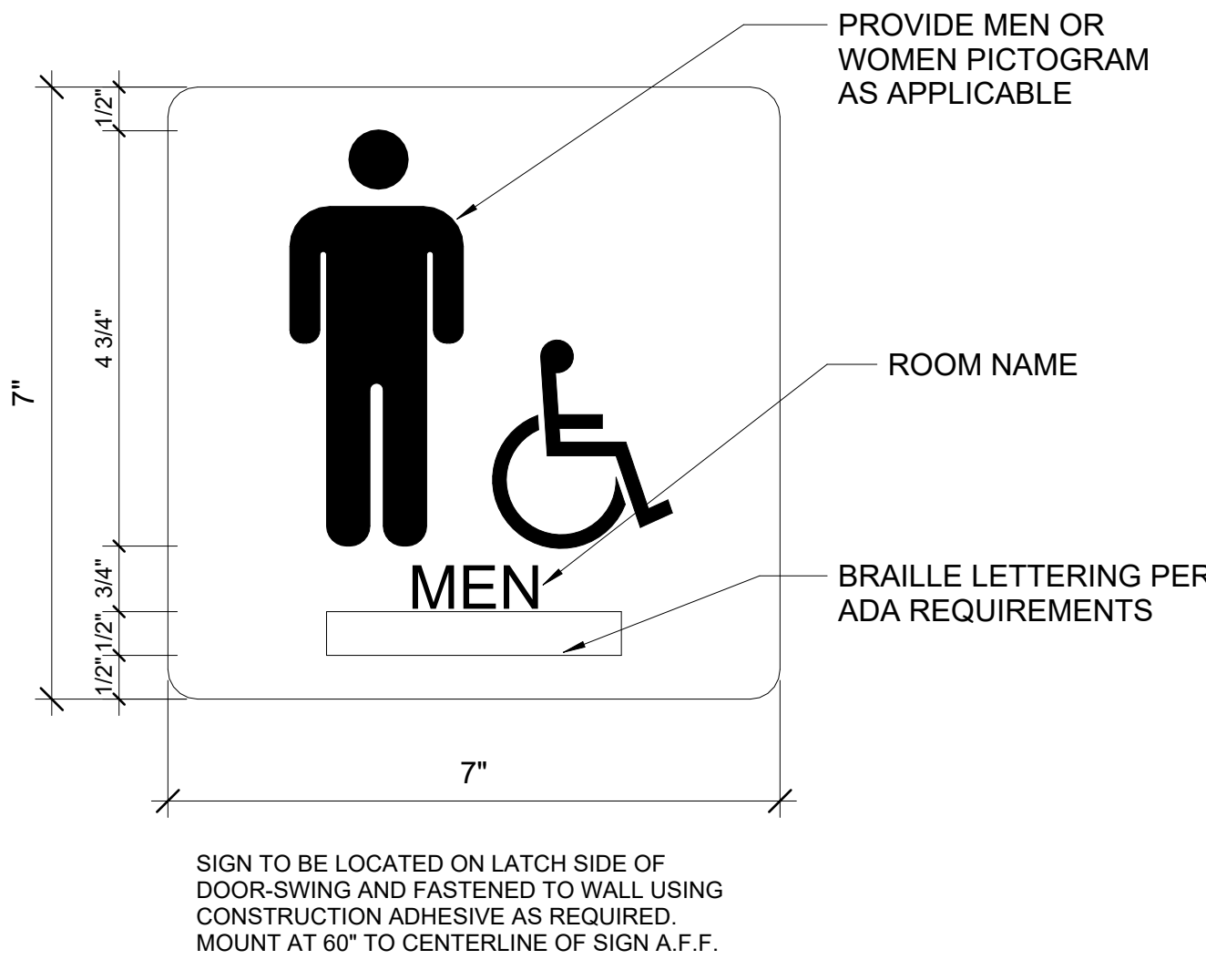
B 3 BUILDING SIGNAGE TYPE 2X - BUILDING DESIGNATION
C-A601 3/4\"/>



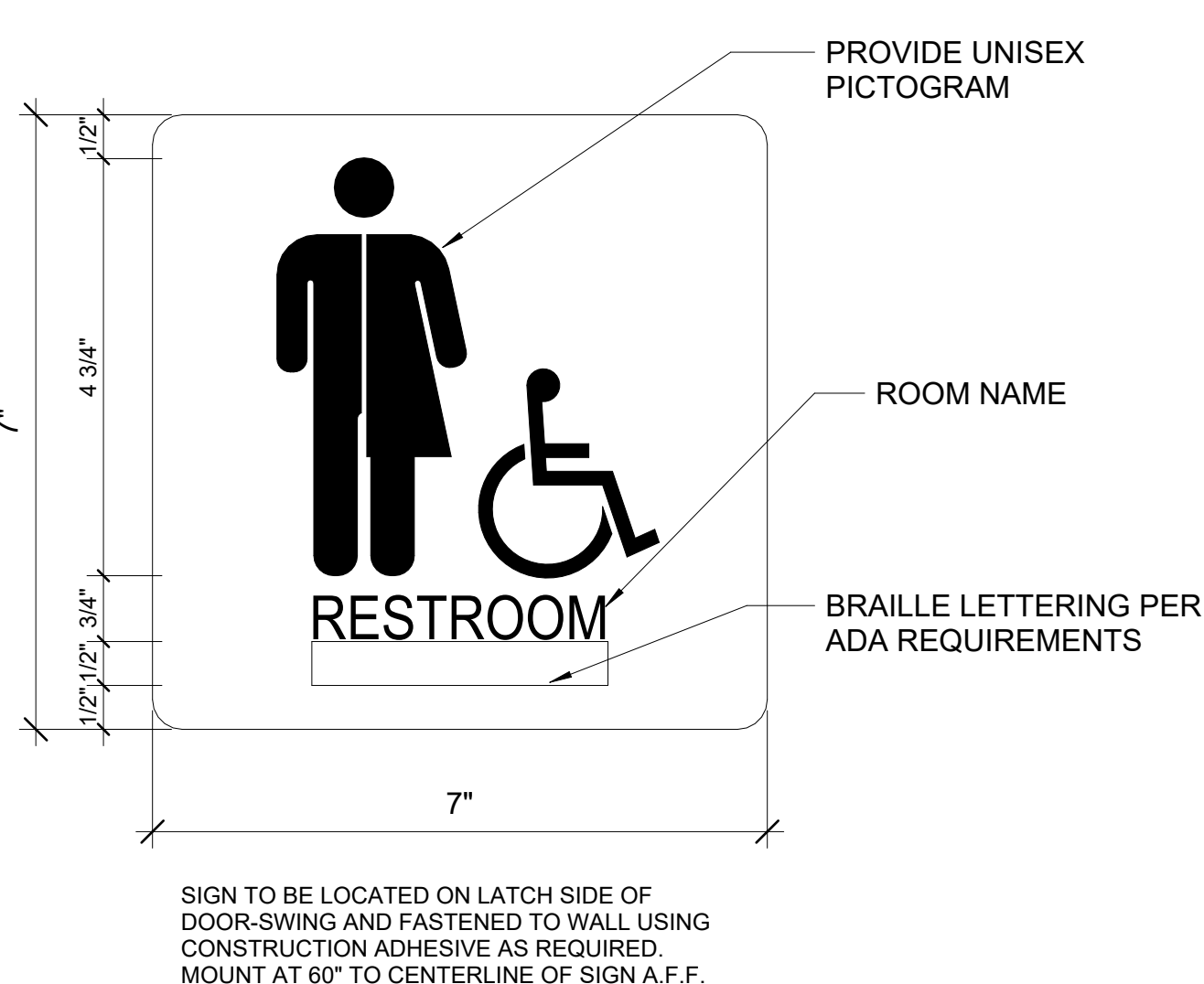
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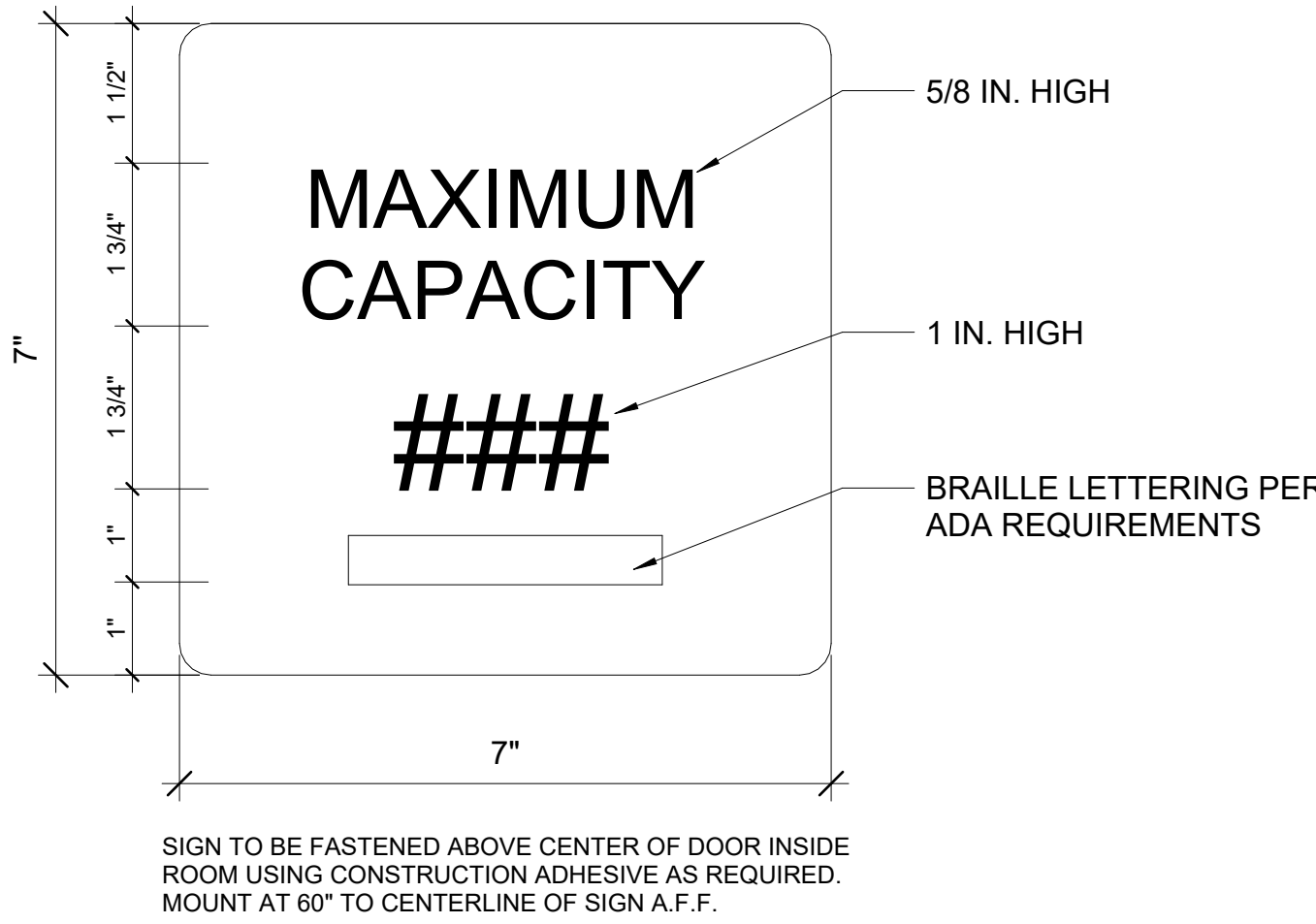
5 DOOR SIGNAGE TYPE A - TYP.
C-A601 NOT TO SCALE



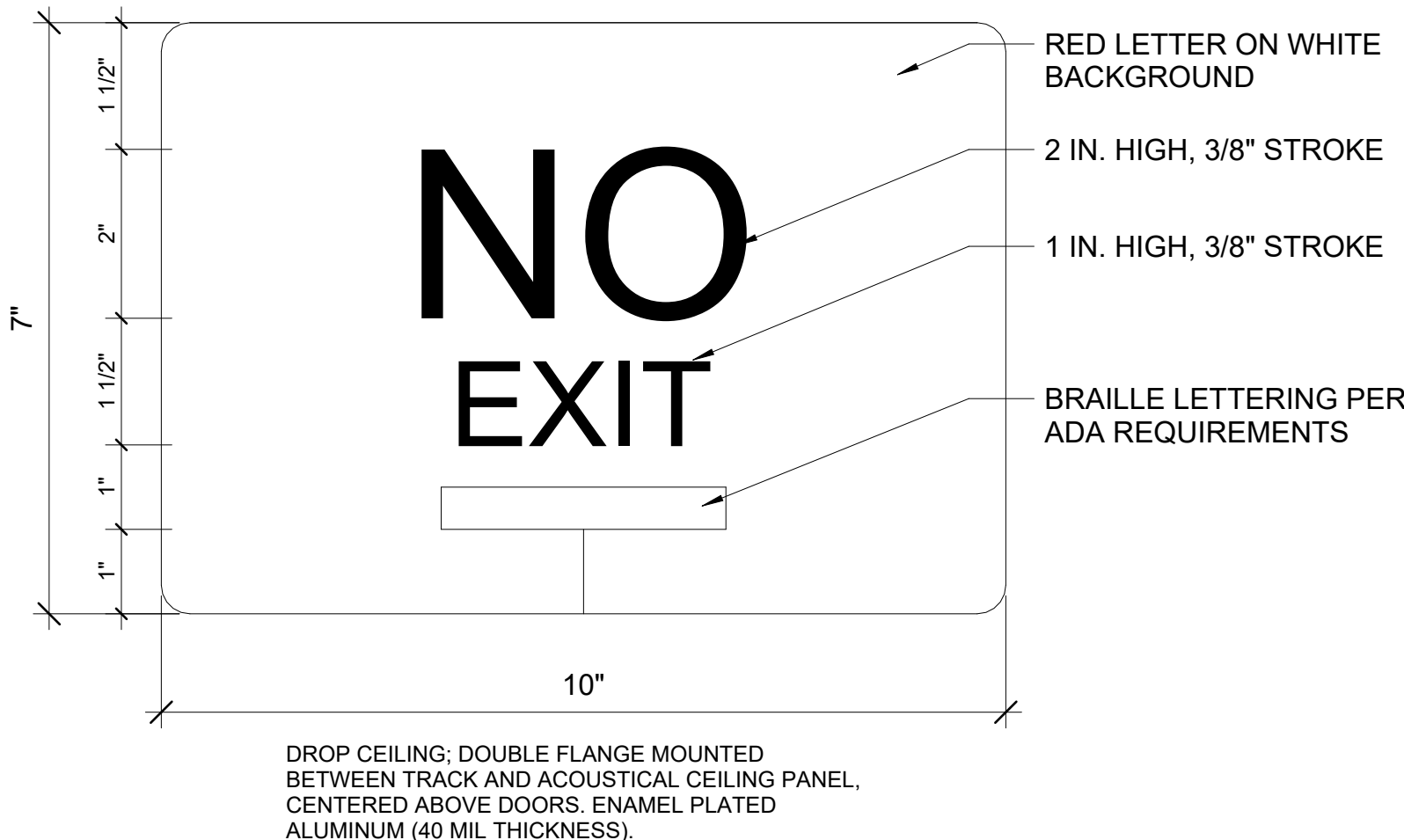
6 DOOR SIGNAGE TYPE B - RESTROOM DOOR
C-A601 NOT TO SCALE



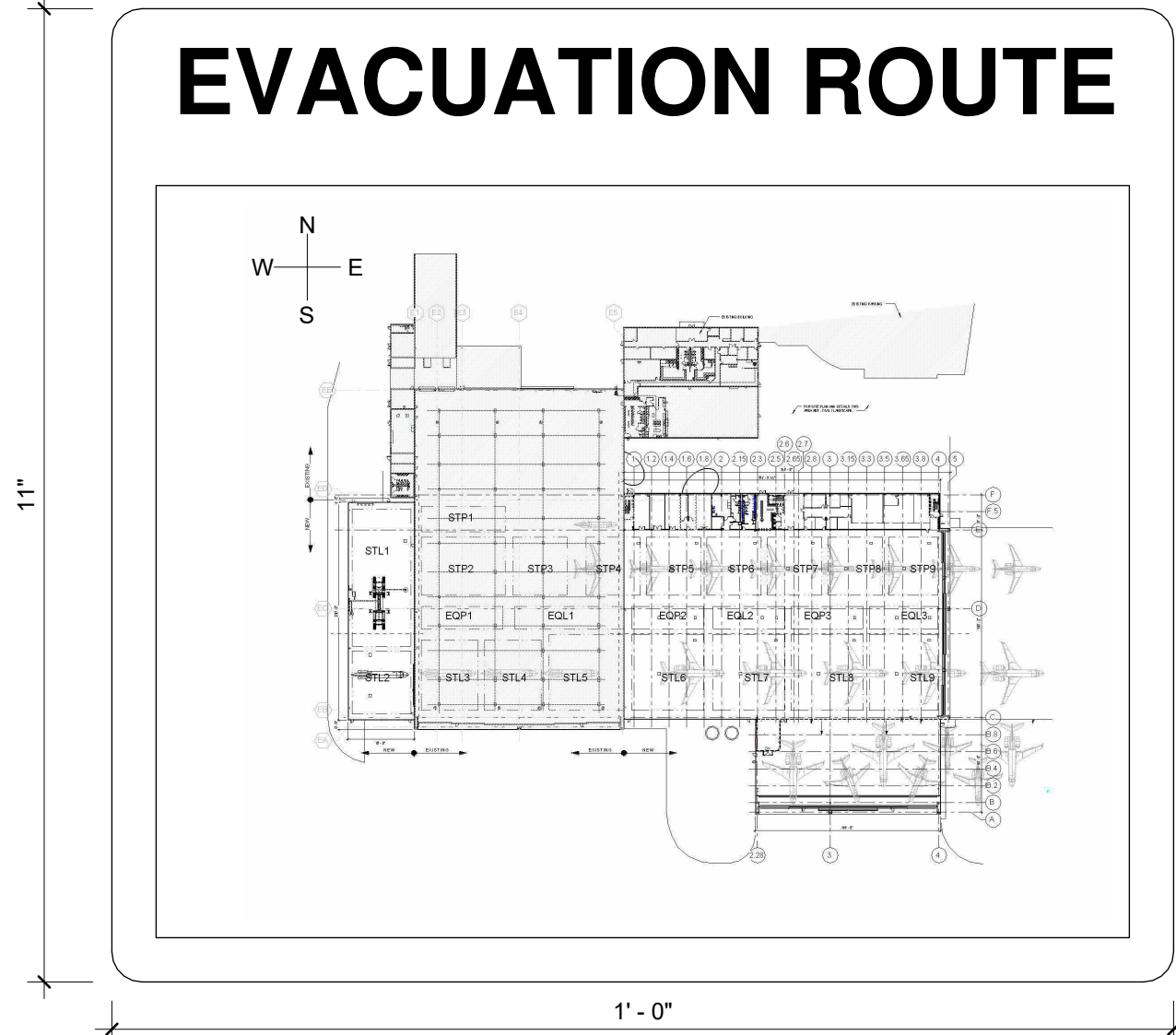
7 DOOR SIGNAGE TYPE C - RESTROOM DOOR
C-A601 NOT TO SCALE



8 DOOR SIGNAGE TYPE D - MAX. OCCUPANCY
C-A601 NOT TO SCALE



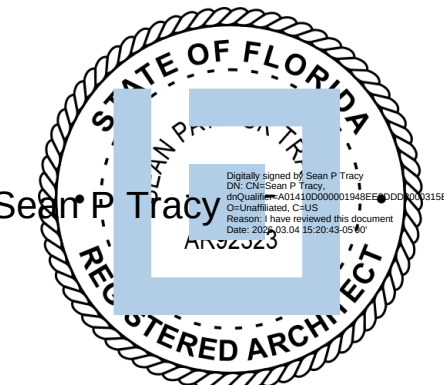
9 DOOR SIGNAGE TYPE E - NO EXIT
C-A601 NOT TO SCALE



10 DOOR SIGNAGE TYPE F - EVACUATION ROUTE
C-A601 NOT TO SCALE



11 DOOR SIGNAGE TYPE G - FIRE RISER ROOM
C-A601 NOT TO SCALE



ISSUE FOR
CONSTRUCTION
DOCUMENTS

ISSUE DATE
02/25/2026

REVISIONS
NO. REASON DATE

PROJECT TEAM
PRINCIPAL IN CHARGE
SEAN TRACY
PROJECT MANAGER
BENJAMIN BOYLES
DESIGN TEAM
ORL-COMMUNITY
PROJECT NAME

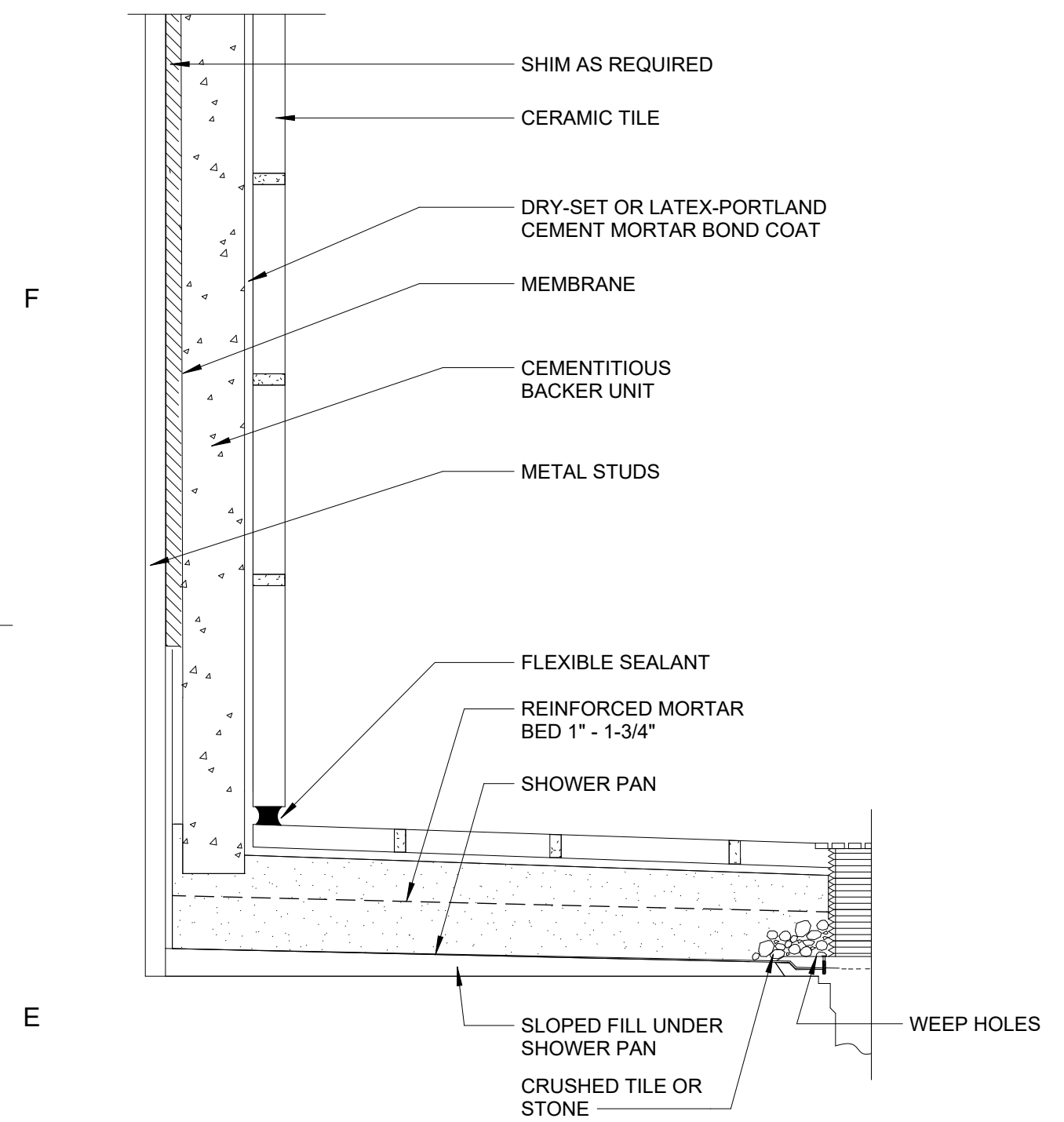
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL

814C632800

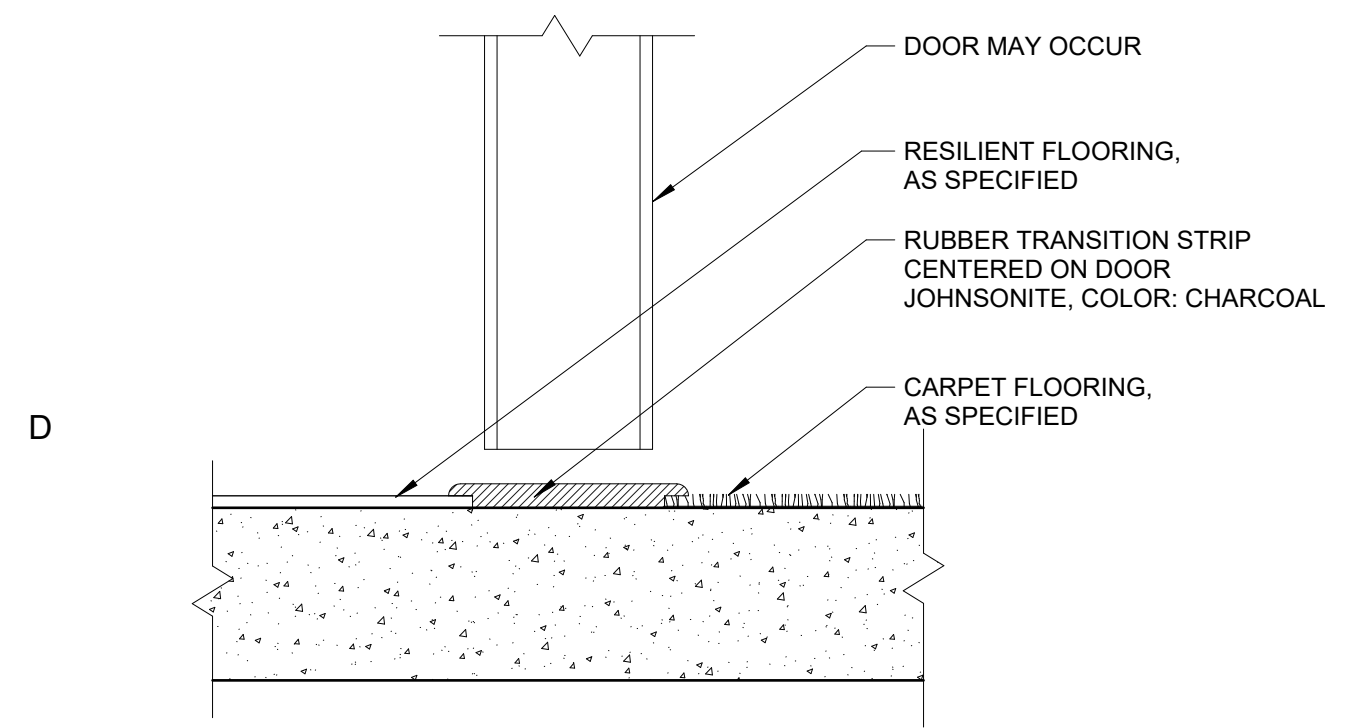
SHEET TITLE
SIGNAGE DETAILS

SHEET NUMBER

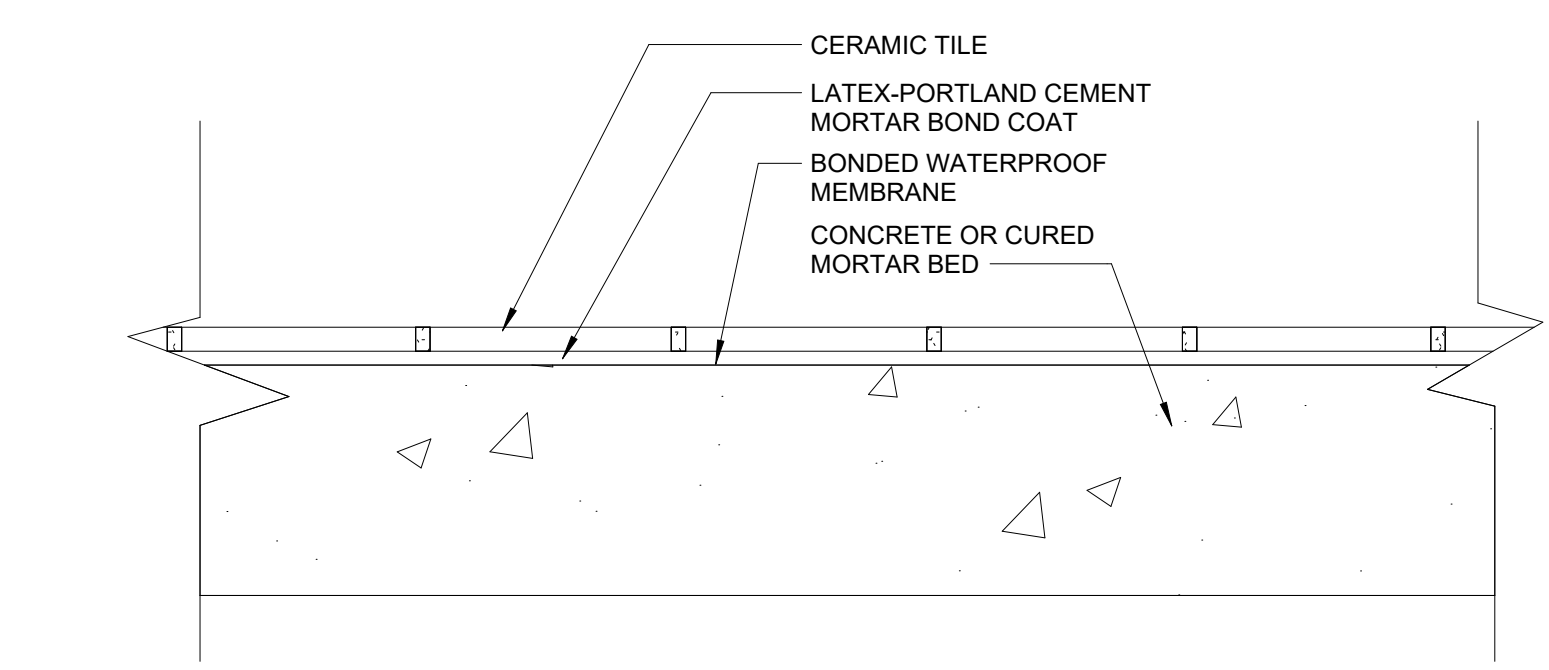
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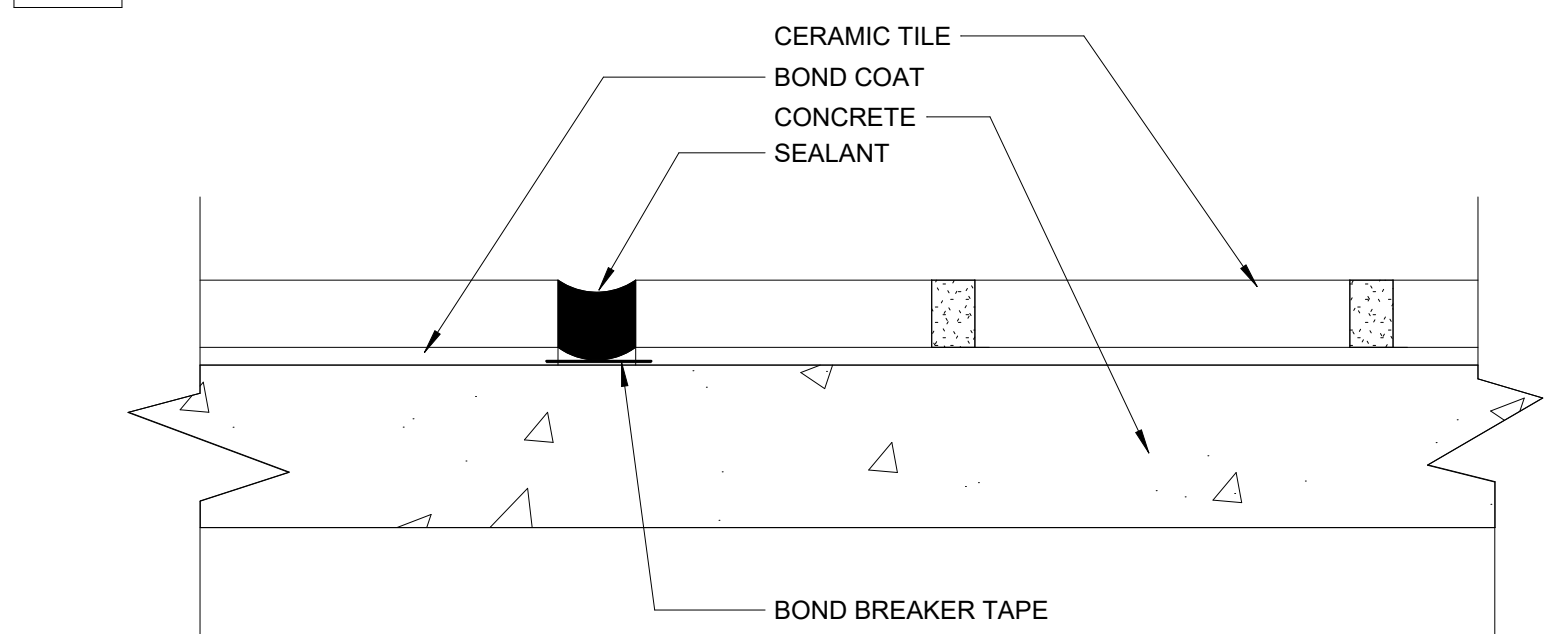
1 TYP. SHOWER DETAIL - SHOWER RECEPTORS- CEMENTITIOUS BACKER
C-A701 3/4" = 1'-0"



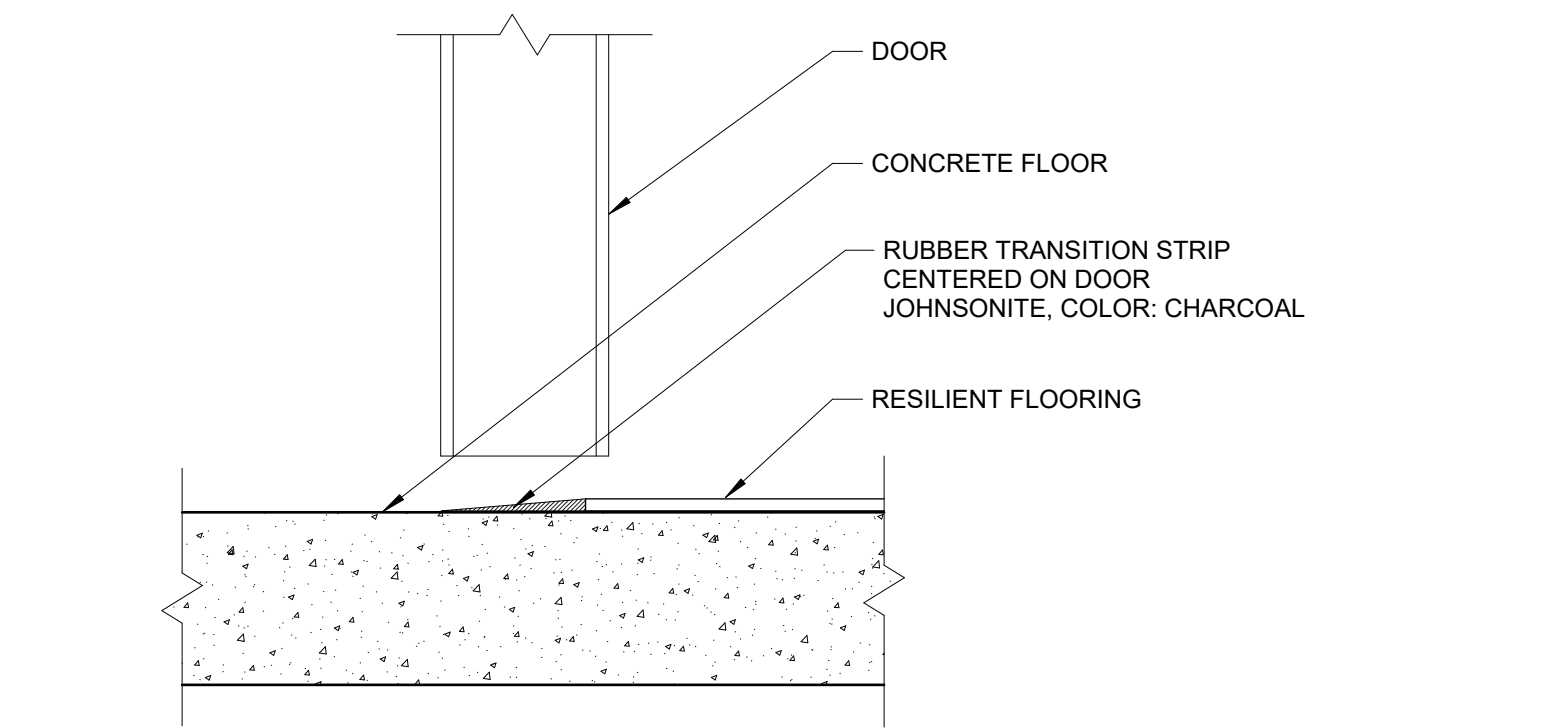
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C-A701 6" = 1'-0"



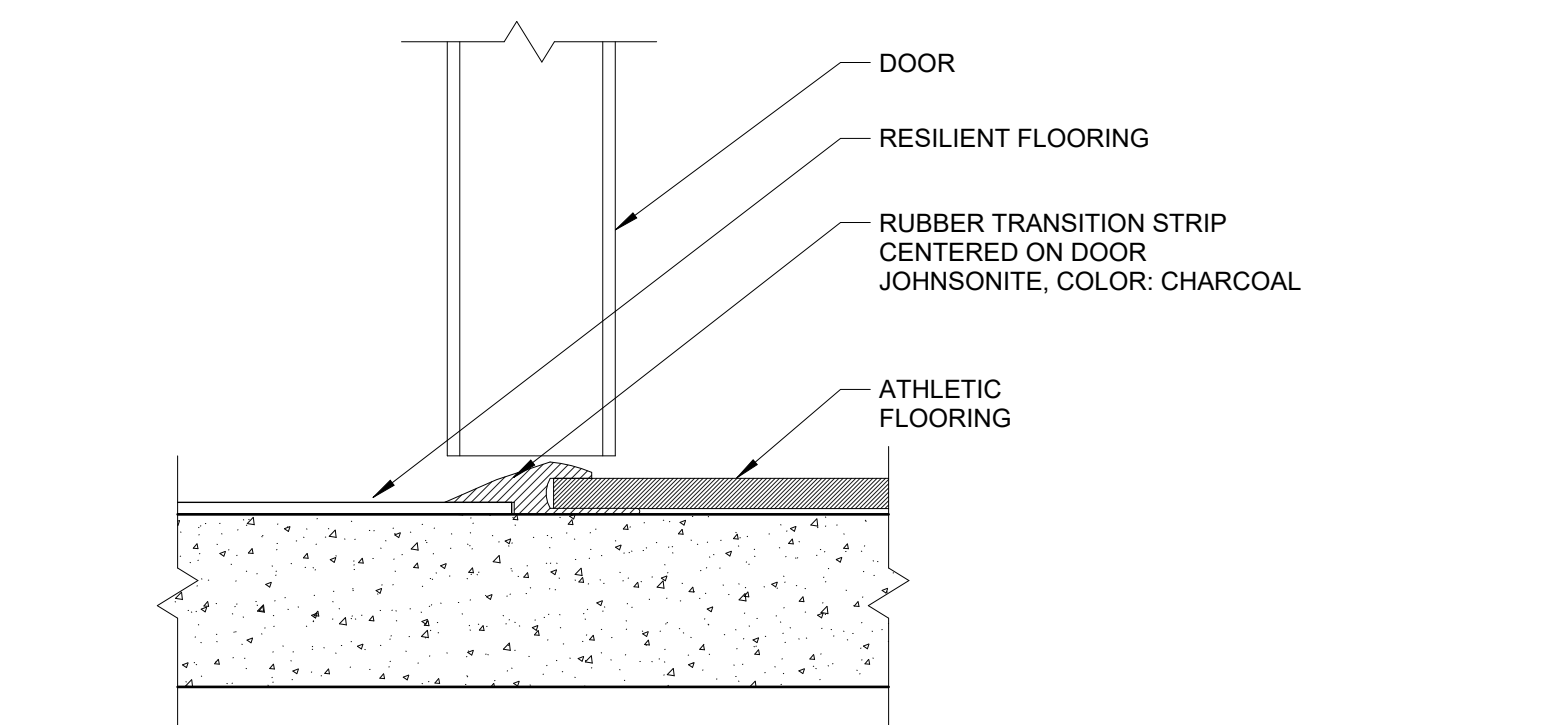
2 TYP. SHOWER FLOOR DETAIL Copy 1
C-A701 3/4" = 1'-0"



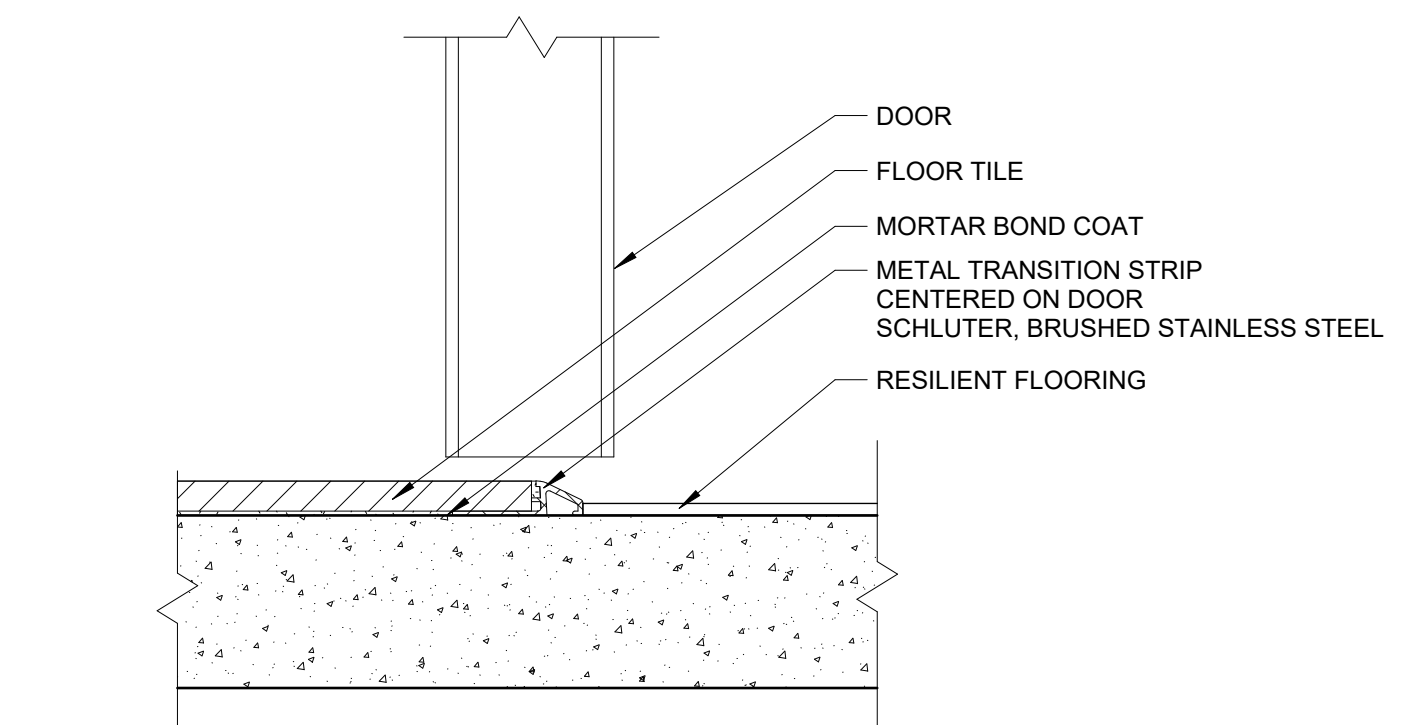
3 TYP. SHOWER DETAIL - VERTICAL & HORIZONTAL MOVEMENT JOINTS
C-A701 3/4" = 1'-0"



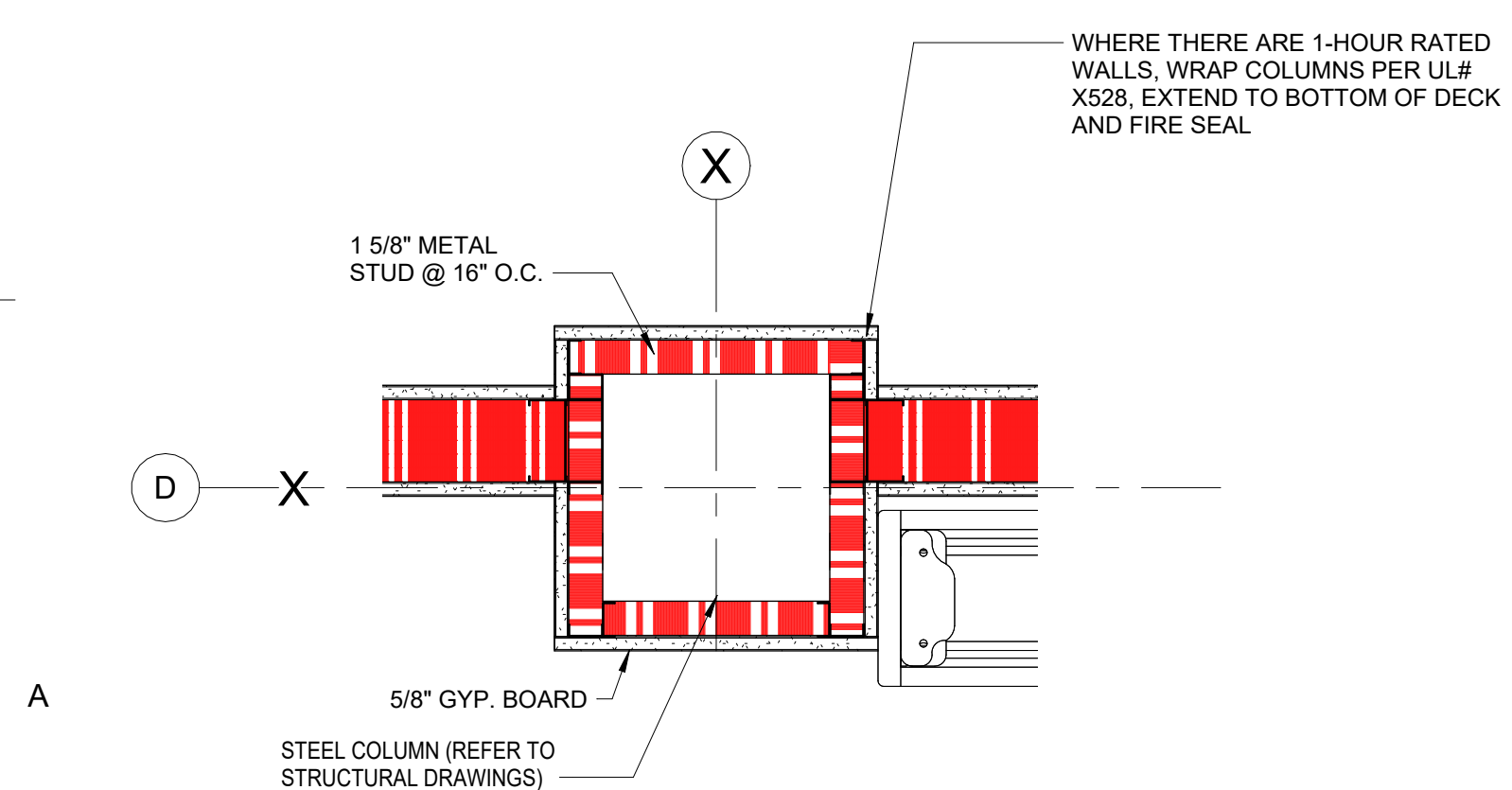
5 FLOORING TRANSITION - CONCRETE TO RESILIENT FLOORING
C-A701 6" = 1'-0"



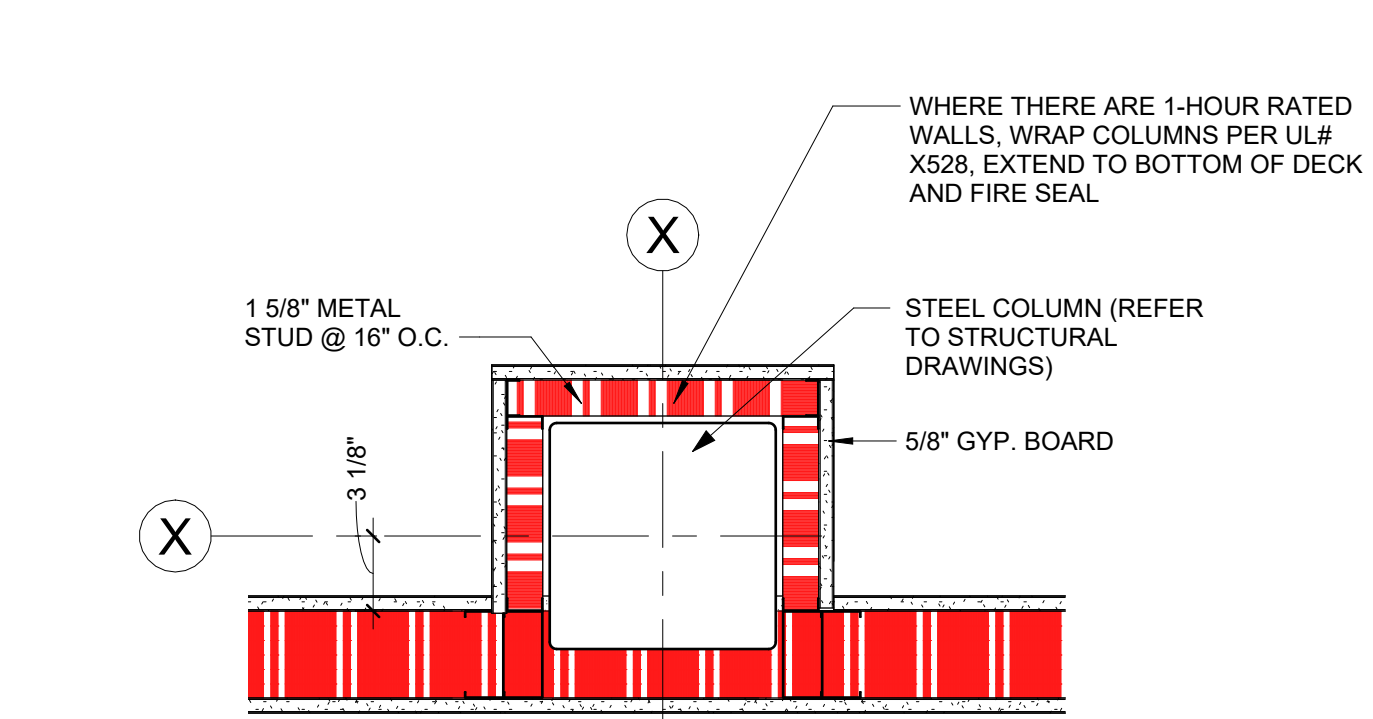
7 FLOORING TRANSITION - ATHLETIC TO RESILIENT FLOORING
C-A701 6" = 1'-0"



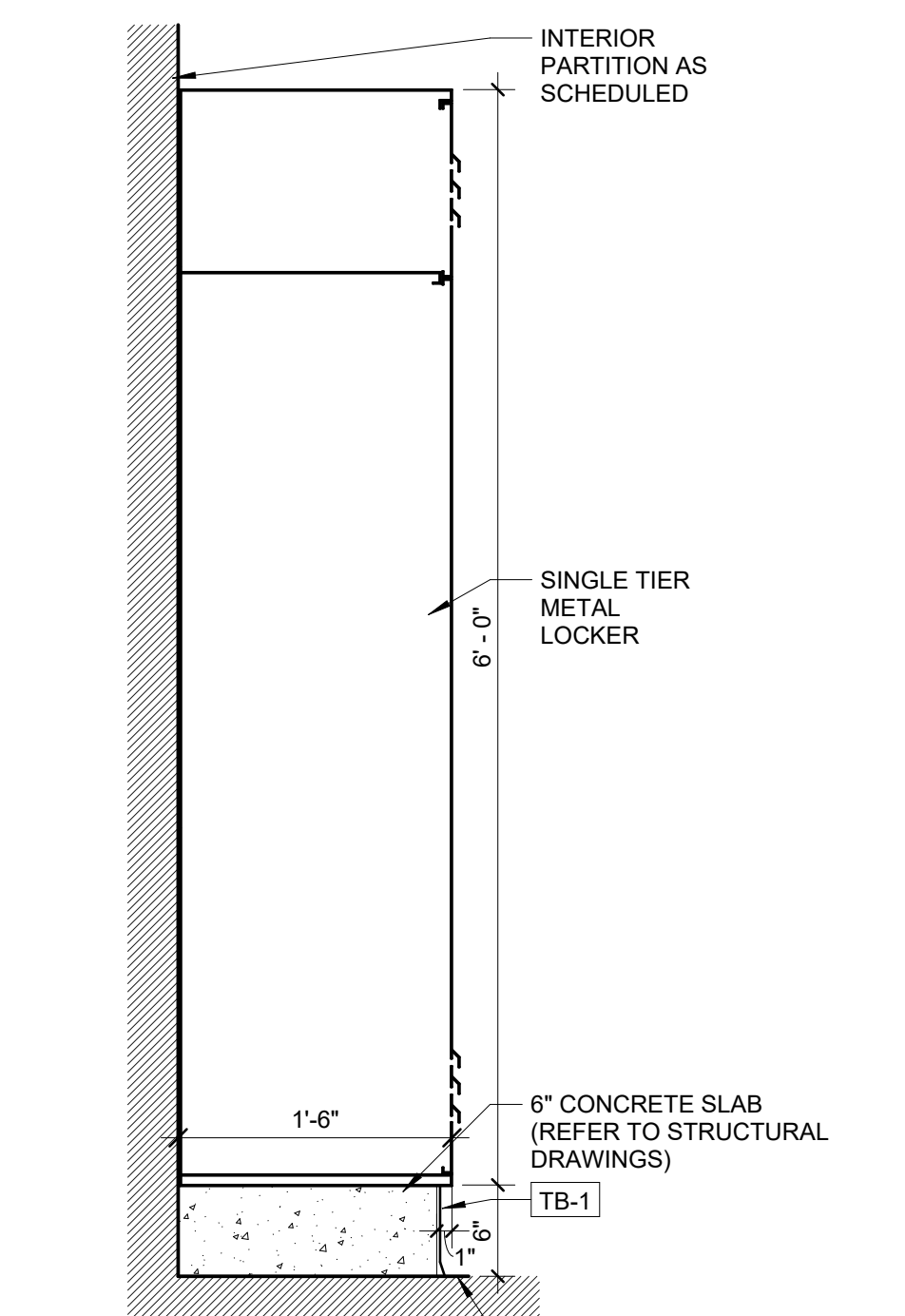
8 FLOORING TRANSITION - RESILIENT FLOORING TO FLOOR TILE
C-A701 6" = 1'-0"



9 DETAIL
C-A701 1 1/2" = 1'-0"



10 DETAIL
C-A701 1 1/2" = 1'-0"



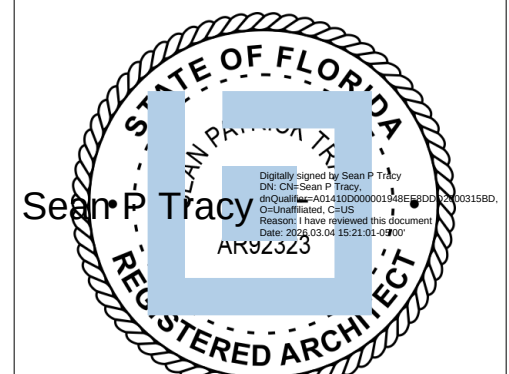
11 TYPICAL LOCKER
C-A701 1" = 1'-0"

NOTE: THIS IS A COMMON SHEET. NOT EVERY DETAIL WILL BE USED IN THIS BUILDING. REFER TO PLANS, ELEVATIONS AND SECTIONS FOR DETAIL SCOPE.

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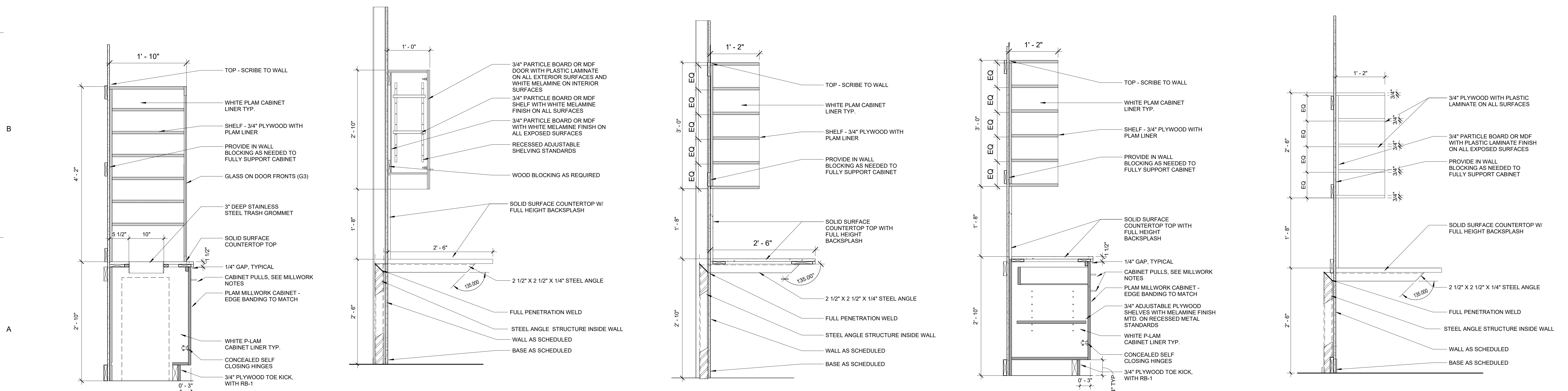
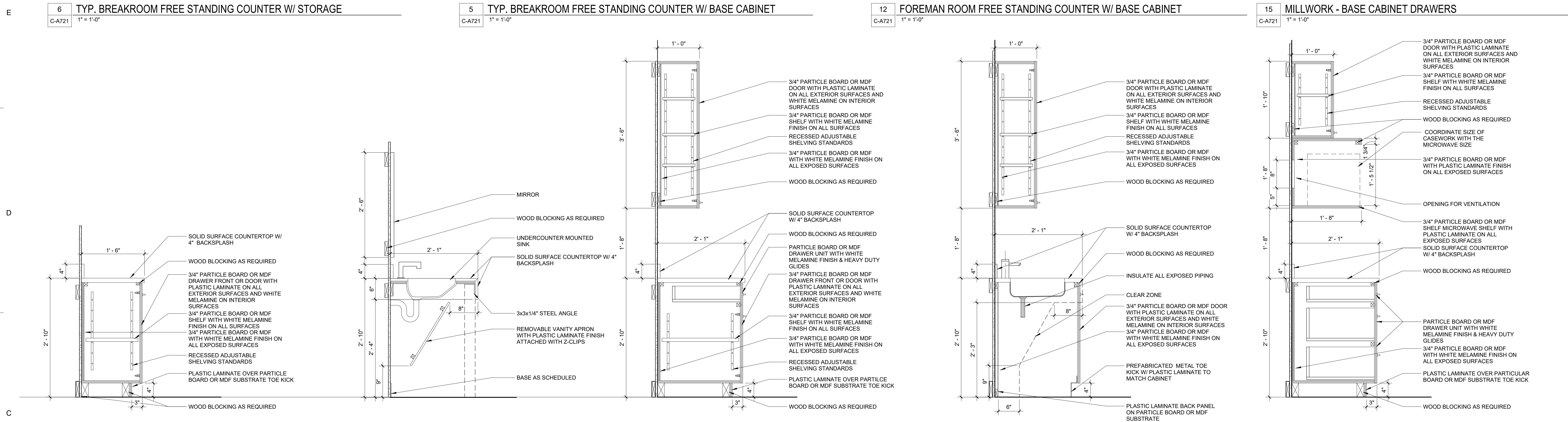
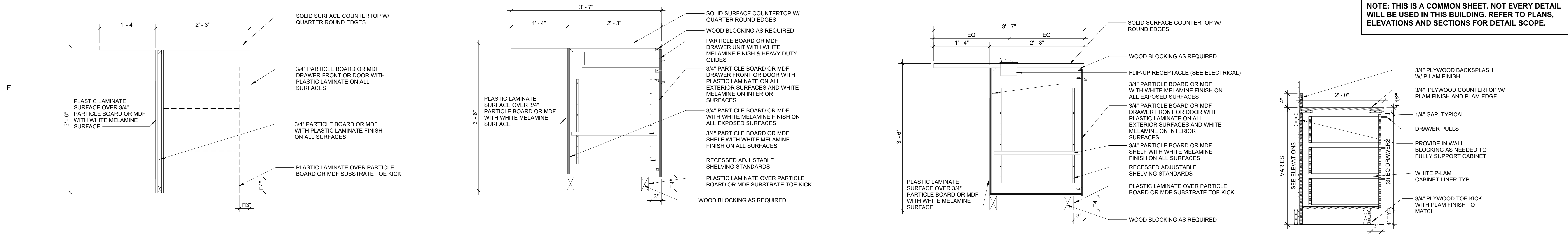
PROJECT NAME
COLUMBIA STORM PROCESSING & SERVICE CENTER - BUILDING C - VEHICLE MAINTENANCE GARAGE
1855 NW COUNTY ROAD 25A, LAKE CITY, FL

PROJECT NO.
814C632800

SHEET TITLE
INTERIOR DETAILS

SHEET NUMBER

C-A701



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DOOR SCHEDULE - BUILDING C																			
DOOR NUMBER	DOOR TYPE	DOOR							FIRE RATING	FRAME							ELECTRONIC FUNCTION	HOWE SET	REMARKS
		NOMINAL OPENING		THICKNESS	DOOR MATERIAL	CORE MATERIAL	DOOR FINISH	DOOR GLASS TYPE		FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME GLASS TYPE	DETAILS		SILL			
		WIDTH	HEIGHT											HEAD	JAMB				
LEVEL 01																			
100A	F	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	--	--	1	HM	P-8	--	DH2	DJ2	DS2	CR, EL, DC, PTH, REX	05A	FAIL SECURE
100B	F	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	--	--	1	HM	P-8	--	DH2	DJ2	DS2	CR, EL, DC, PTH, REX	05A	FAIL SECURE
100C	F	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	--	--	1	HM	P-8	--	DH2	DJ2	DS2	CR, EL, DC, PTH, REX	05A	FAIL SECURE
100D	OH	16' - 0"	16' - 0"	2"	STL	IC	FF	--	--	MFR	STL	--	--	DH4	DJ4	DS4			34
100E	OH	16' - 0"	16' - 0"	2"	STL	IC	FF	--	--	MFR	STL	--	--	DH4	DJ4	DS4			34
100F	OH	16' - 0"	16' - 0"	2"	STL	IC	FF	--	--	MFR	STL	--	--	DH4	DJ4	DS4			34
100G	OH	16' - 0"	16' - 0"	2"	STL	IC	FF	--	--	MFR	STL	--	--	DH4	DJ4	DS4			34
101	N	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	G3	--	1	HM	P-8	--	DH2	DJ2	DS2			29
102	F	3' - 0"	7' - 0"	1 3/4"	WD	MC	WV	--	90 MIN	1	HM	P-8	--	DH1	DJ1	DS1			20
103	F	3' - 0"	7' - 0"	1 3/4"	WD	MC	WV	--	90 MIN	1	HM	P-8	--	DH1	DJ1	DS1	CR, EL, DC, PTH, REX	15	FAIL SECURE
104	F	3' - 0"	7' - 0"	1 3/4"	WD	PC	WV	--	--	1	HM	P-8	--	DH1	DJ1	DS1			25
105	N	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	G3	--	1	HM	P-8	--	DH2	DJ2	DS2			24
106	F	3' - 0"	7' - 0"	1 3/4"	WD	PC	WV	--	--	1	HM	P-8	--	DH1	DJ1	DS1			25
107	F	3' - 0"	7' - 0"	1 3/4"	WD	PC	WV	--	--	1	HM	P-8	--	DH1	DJ1	DS1			22
108	F	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	--	--	1	HM	P-8	--	DH2	DJ2	DS2	CR, EL, DC, PTH, REX	05A	FAIL SECURE
109	F	3' - 0"	7' - 0"	1 3/4"	HM	IC	P-8	--	--	1	HM	P-8	--	DH2	DJ2	DS2			20
110A	OH	8' - 0"	10' - 0"	2"	STL	IC	FF	--	--	MFR	STL	--	--	DH4	DJ4	DS4			34
110B	F	6' - 0"	7' - 0"	1 3/4"	HM	MC	P-8	--	45 MIN	1	HM	P-8	--	DH2	DJ2	DS2			11
111	F	6' - 0"	7' - 0"	1 3/4"	HM	MC	P-8	--	45 MIN	1	HM	P-8	--	DH2	DJ2	DS2			11

GLASS TYPES

- G1 - INSULATED GLASS UNIT (3/4" THICK)
LOW-E INSULATING / LAMINATED GLAZING UNIT
(12% LIGHT REFLECTANCE, 33% VISIBLE LIGHT TRANSMITTANCE)
BASIS OF DESIGN: VIRAICON GREY TINTED
- G2 - FIRE-RATED GLASS (3/16" CLEAR CERAMIC)
FIRE-RATED / NON-IMPACT
- G3 - TEMPERED GLASS (1/4" CLEAR TEMPERED)
- G4 - INSULATED GLASS UNIT (1" THICK)
LOW-E INSULATING / LAMINATED GLAZING UNIT
(12% LIGHT REFLECTANCE, 33% VISIBLE LIGHT TRANSMITTANCE)
BASIS OF DESIGN: VIRAICON GREY TINTED

DOOR SCHEDULE NOTES

1. PROVIDE SIGNAGE: SEE A-A131 FOR SIGNAGE PLACEMENT AND D-6001 FOR SIGNAGE DETAIL.
2. MANUFACTURERS STANDARD THICKNESS AND ANCHORAGE DETAILS.
3. REFER TO STOREFRONT ELEVATIONS FOR PERIMETER DETAILS.
4. REFER TO FRAME ELEVATIONS FOR PERIMETER DETAILS.
5. ALL HOLLOW METAL DOOR LEAFS SHALL HAVE A CLOSER.
6. POWERED MOTOR OPERATOR (PO) WITH OBSTRUCTION SENSOR BAR (OS) AT BOTTOM.
7. REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR HOLLOW METAL DOOR AND FRAME PAINT COLORS.

DOOR AND FRAME NOTES

1. SEAL ALL FRAMES TO EXTERIOR WALLS AND HARD FLOORS.
2. CAULK ALL FRAMES TO INTERIOR PARTITIONS.
3. DOORS SHALL BE RECESSED 4" FROM EXTERIOR FACE OF EXTERIOR WALLS, UNLESS OTHERWISE NOTED.
4. ALL DOORS SHALL HAVE AN UNDERCUT OF 3/4", UNLESS NOTED OTHERWISE. REFER TO MECH PLANS FOR ADDITIONAL UNDERCUTS REQUIRED FOR AIRFLOW REQUIREMENTS. REGARDLESS:
FIRE-RATED DOORS: MAXIMUM UNDERCUT SHALL BE 3/4".
NON-FIRE-RATED DOORS: MAXIMUM UNDERCUT SHALL BE 1".

HARDWARE NOTES

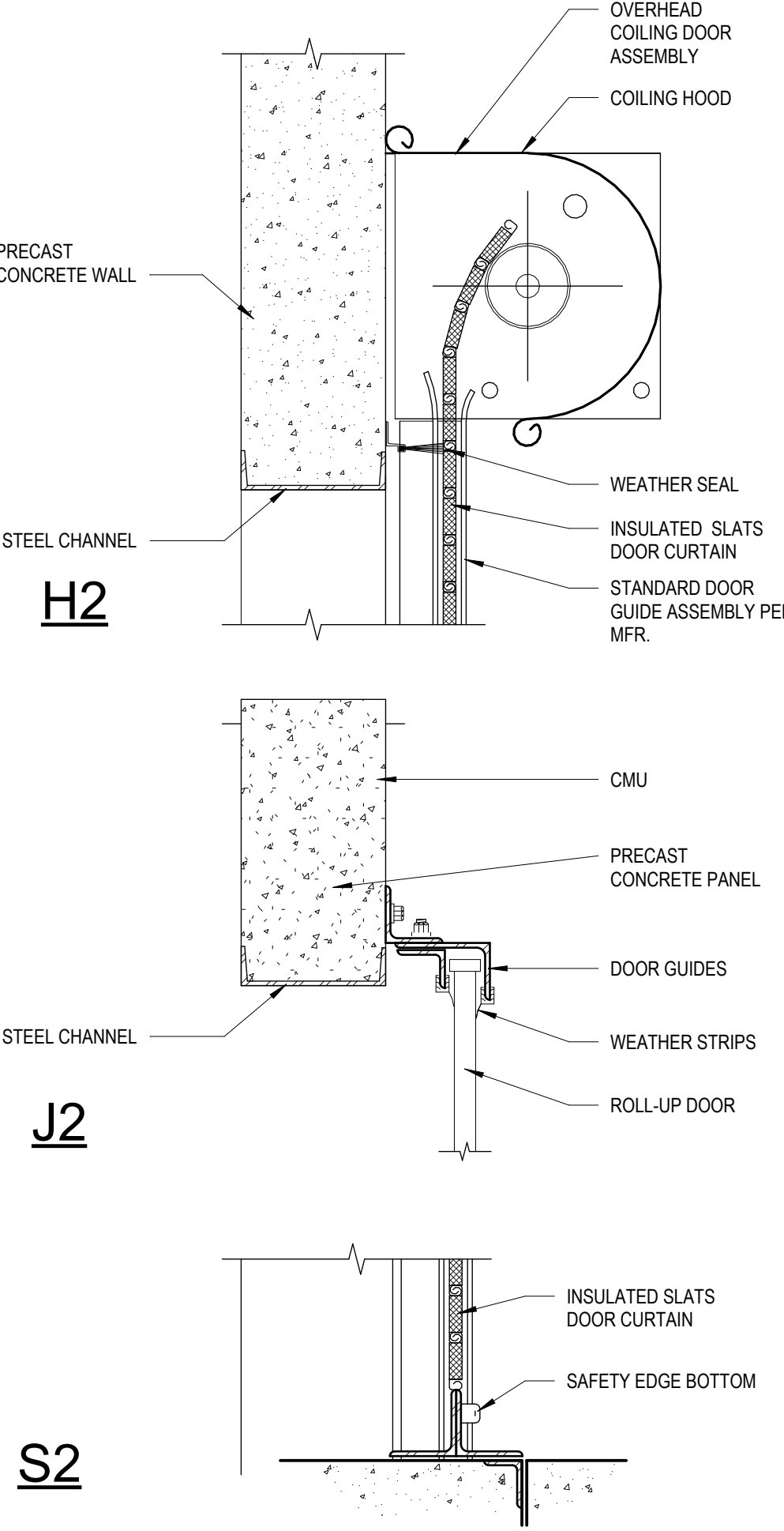
1. ALL HOLLOW METAL DOORS SHALL RECEIVE CLOSERS.
2. ALL DOORS SHALL RECEIVE BUILDING STANDARD DOME DOOR STOP IN BRUSHED CHROME, UNLESS NOTED OTHERWISE.
3. INSTALL DIAMOND PLATE ARMOR GUARD ON PUSH SIDE OF DOOR LEAF:
A. DIAMOND PLATE ALUMINUM, TYPE TREAD BRITE, 0.125 THICK
B. BRUSH #4 FINISH
C. MECHANICALLY FASTENED, PRE-DRILLED HOLES, TAMPER-PROOF FASTENERS
D. BEVELED EDGE ON THREE SIDES
E. SIZE: 32" W X 20" H

ELECTRIC DOOR FUNCTIONS

- CR CARD READER PB PANIC BAR
DC DOOR CONTACT PO POWERED OPERATOR
EL ELECTRIC LOCK PP PUSH PAD OPERATOR
MH MAGNETIC HOLDER PTH POWER TRANSFER HINGE
OS OBSTRUCTION SENSOR REX REQUEST TO EXIT

DOOR SCHEDULE ABBREVIATIONS

CORE MATERIALS	DOOR MATERIALS	GENERAL
MC MINERAL CORE	WD WOOD	MFR MANUFACTURER
IC INSULATED CORE	AL ALUMINUM	FF FACTORY FINISH
PC PARTICLE CORE	GL GLAZED	GALV GALVANIZED
	HM HOLLOW METAL	WV GALVANIZED
	STL STEEL	



DOOR DETAILS

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DESIGN TEAM
ORL-COMMUNITY

PROJECT NAME
COLUMBIA STORM
PROCESSING & SERVICE
CENTER - BUILDING C -
VEHICLE MAINTENANCE
GARAGE
1855 NW COUNTY ROAD 25A,
LAKE CITY, FL 32055

814C632800

DOOR SCHEDULE,
OPENING TYPES, AND
HARDWARE SETS

SHEET NUMBER

C-A900

The image contains three architectural drawings of window or door assemblies, labeled F, E, and an unlabeled one at the bottom. Each drawing shows an interior and exterior elevation with various components and callouts.

- Drawing F:**
 - Interior:** Callouts include "ALUMINUM ATTACHMENT ANGLE AROUND PERIMETER CONT.", "CONCRETE TILT WALL PANEL", "CONT. S.S. DRIP", "CONT. SEALANT ON BACKER ROD", and "METAL LOUVER (REF TO MECH)".
 - Exterior:** Callouts include "REFER TO FLOOR PLANS FOR APPLICATION OF INTERIOR PARTITIONS", "CONCRETE TILT WALL PANEL", "CONT. S.S. DRIP", "CONT. SEALANT ON BACKER ROD", and "METAL LOUVER (REF TO MECH)".
- Drawing E:**
 - Interior:** Callouts include "METAL LOUVER (SEE MECH)", "CONT. SEALANT ON BACKER ROD", "CONT. S.S. FLASHING SET IN FULL BED OF SEALANT", and "CONCRETE TILT WALL PANEL WITH 3/4\"
 - Exterior:** Callouts include "METAL LOUVER (SEE MECH)", "CONT. SEALANT ON BACKER ROD", "CONT. S.S. FLASHING SET IN FULL BED OF SEALANT", and "CONCRETE TILT WALL PANEL WITH 3/4\"
- Unlabeled Drawing:**
 - Interior:** Callouts include "METAL LOUVER (SEE MECH)", "CONT. SEALANT ON BACKER ROD", "CONT. S.S. FLASHING SET IN FULL BED OF SEALANT", and "CONCRETE TILT WALL PANEL WITH 3/4\"
 - Exterior:** Callouts include "METAL LOUVER (SEE MECH)", "CONT. SEALANT ON BACKER ROD", "CONT. S.S. FLASHING SET IN FULL BED OF SEALANT", and "CONCRETE TILT WALL PANEL WITH 3/4\"

INTERIOR **FH1** **EXTERIOR**

CONCRETE TILT-UP WALL PANEL
REFER TO FLOOR PLANS FOR APPLICATION OF INTERIOR PARTITIONS
CONTINUOUS SEALANT ON BACKER ROD (EACH SIDE)
HOLLOW METAL FRAME (AS SCHEDULED) GROUT SOLID, EXTERIOR: PRIMED AND PAINTED / INTERIOR: MASTIC COATING, PRIOR TO GROUTING SOLID
HM GLAZING STOP AND SETTING STRIP
GLAZING AS SCHEDULED

INTERIOR **FJ1** **EXTERIOR**

GLAZING AS SCHEDULED
HM GLAZING STOP AND SETTING STRIP
HOLLOW METAL FRAME (AS SCHEDULED) GROUT SOLID, EXTERIOR: PRIMED AND PAINTED / INTERIOR: MASTIC COATING, PRIOR TO GROUTING SOLID
CONTINUOUS SEALANT ON BACKER ROD (EACH SIDE)
JAMB ANCHORS EACH SIDE, COUNTERSUNK INTO DIMPLED DOOR FRAME

INTERIOR **FS1** **EXTERIOR**

CONCRETE SLAB, REFER TO FINISH PLAN FOR FINISH
GLAZING AS SCHEDULED
HM GLAZING STOP AND SETTING STRIP
HOLLOW METAL FRAME WITH CLOSURE PLATE BY MFR, FILL SOLID WITH GROUT
SEALANT ON BACKER ROD (BOTH SIDES), WEEP @ 1/2"
CONCRETE PAVING
CONTINUOUS SEALANT ON 1/2" COMPRESSIBLE FILLER
ALUMINUM SILL PAN W/ FULLY SOLDERED UP, TURNED BACK AND ENDS AND HEMMED FRONT EDGE

The image contains three cross-sectional diagrams of door thresholds, labeled DH1, DJ1, and DS1.

- DH1:** This diagram shows a door threshold with a metal stud wall on both sides, each finished with 5/8" gypsum board. A double metal stud header is positioned above the threshold. The threshold itself is a double metal stud frame with a double bend at the throat. The door is shown on the right side. Dimensions include a total width of 6" and individual stud widths of 2" on each side.
- DJ1:** This diagram shows a door threshold with a double metal stud jamb on the right side. The threshold is a wrap-around metal frame. The door is shown on the right side. The total width is 6".
- DS1:** This diagram shows a door threshold with a concrete slab. A marble threshold (as scheduled) is placed on top of the concrete slab. The door is shown on the right side. The total width is 6".

Technical drawing of a horizontal sliding service window assembly, showing a cross-section with labels for various components and dimensions:

- 5/8" GYP BD ON METAL STUDS PER PARTITION TYPE DEFINITION
- CONTINUOUS CAULKING (BOTH SIDES)
- HORIZONTAL SLIDING SERVICE WINDOW
- SSM SHELF BELOW
- FACE OF WALL BELOW
- CONTINUOUS CAULKING (BOTH SIDES)
- HORIZONTAL SLIDING SERVICE WINDOW
- SSM WITH 18" RADIUS EDGES
- SSM FACE TRIM
- PLYWOOD
- 5/8" GYP BD ON METAL STUDS PER WALL TYPE DEFINITION

Dimensions shown:

- 2"
- 1 1/2"
- 8"
- 3 1/4"

ELEC	ELECTRICAL
MFR	MANUFACTURER
P.T.	PRESSURE-TREATED
SATM	SELF-ADHERING TRANSITION MEMBRANE
SS	STAINLESS STEEL
SSM	SOLID SURFACE MATERIAL
STRC	STRUCTURAL

EXTERIOR

SHX2

INTERIOR

Labels:

- S.A.T.M. WRAPS TILT PANEL OPENING
- SHIM GAP AND ANCHORAGE PER FPA TEST REPORT
- AIR BARRIER SEALANT (CONT. ALONG EDGE OF S.A.T.M.)
- SAWCUT CONT. DRIP EDGE
- CONTINUOUS ALUM. CLOSURE PLATE SHALL PROVIDE SUPPORT FOR BACKER ROD. OVERLAP & SEAL ALL TRANSITIONS & JOINTS BETWEEN PLATES, CORNERS, AND EDGES TO PREVENT AIR INFILTRATION.
- GLAZED ALUMINUM STOREFRONT SYSTEM. GLAZING AS INDICATED ON EXTERIOR STOREFRONT TYPES.
- SEALANT ON BACKER ROD (BOTH SIDES)
- BUILDING INSULATION (CONTINUOUS)
- 1 5/8" VERTICAL METAL STUDS BEYOND
- RETURN GYPSUM BOARD TO FACE OF TILT WALL. ALIGN FACE WITH TILT WALL OPENING.
- 3 5/8" METAL STUD FRAMING AT PERIMETER OF ALL OPENINGS
- METAL CORNER BEAD
- ROLLERSHADE AS SCHEDULED
- WALL OPENING BEYOND
- INSIDE FACE OF TILT WALL BEYOND

Dimensions:

- 2"
- 3/8"
- 1 5/8"
- 5/8"
- 3/4"
- 1/2"
- 3/4"
- 1/2"
- 1/2"
- 3/8"
- 3/4"
- 1/2"

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The diagram illustrates the components of an overhead coiling door system. The top section shows a cross-section of the door assembly, including the concrete tilt wall, panel, rail anchorage, door manufacturer's (mfr.) components, door guide rails, weather strip sweeps, and the overhead coiling door. The bottom section shows a side view of the door assembly, including the concrete tilt wall beyond, concrete paving, slope, overhead coiling door, sensor bar and gasket seal, and door guide rails beyond.

Labels:

- CONCRETE TILT WALL PANEL CHAMFER EDGES 3/4"
- RAIL ANCHORAGE
- DOOR MFR.
- DOOR GUIDE RAILS
- WEATHER STRIP SWEEPS
- OVERHEAD COILING DOOR
- CONCRETE TILT WALL BEYOND
- CONCRETE PAVING
- SLOPE
- OVERHEAD COILING DOOR
- SENSOR BAR AND GASKET SEAL
- DOOR GUIDE RAILS BEYOND

CONCRETE TILT-UP WALL PANEL

REFER TO FLOOR PLANS FOR APPLICATION OF INTERIOR PARTITIONS

CONTINUOUS SEALANT ON BACKER ROD (EACH SIDE)

HOLLOW METAL FRAME (AS SCHEDULED) GROUT SOLID, EXTERIOR-PRIMED AND PAINTED / INTERIOR-MASTIC COATING, PRIOR TO GROUTING SOLID.

HOLLOW METAL DOOR (AS SCHEDULED)

INTERIOR

DH2

EXTERIOR

HOLLOW METAL DOOR (AS SCHEDULED)

HOLLOW METAL FRAME (AS SCHEDULED) GROUT SOLID, EXTERIOR-PRIMED AND PAINTED / INTERIOR-MASTIC COATING, PRIOR TO GROUTING SOLID.

CONTINUOUS SEALANT ON BACKER ROD (EACH SIDE)

JAMB ANCHORS EACH SIDE, COUNTERSUNK INTO DIMPLED DOOR FRAME

W/ TRANSOM

GLAZED ALUMINUM
STOREFRONT SYSTEM
ALUMINUM BREAK-
METAL PANEL BY
STOREFRONT MFR.
(FRONT & BACK)

STEEL TUBE LINTEL
(ENGINEERING BY
STOREFRONT MFR.)

GLAZED ALUMINUM
ENTRANCE DOOR
AND GLAZING PER
SCHEDULE.

SEALANT ON
BACKER ROD
(BOTH SIDES)
MINERAL WOOL
INSULATION

ANCHORAGE BY
STOREFRONT
MFR.

EXTERIOR

SHX1

INTERIOR

GLAZED ALUMINUM
ENTRANCE DOOR AND
GLAZING PER SCHEDULE.

ADA-COMPLIANT ALUMINUM
THRESHOLD WITH
WEATHERSTRIPPING. SET IN
FLY BED OF SEALANT WITH
COUNTERSUNK FASTENERS
CHAMFERED EDGE

WALL BEYOND
JAMB BEYOND

FINISHED FLOOR
(PER SCHEDULE)
ON CONCRETE
SLAB

EXTERIOR

SSX1

INTERIOR

SHN1

- EQ. EO
- 5/8" GYPSUM BOARD ON METAL STUDS PER PARTITION TYPE DEFINITION
- METAL CORNER BEAD (TYP.)
- CONTINUOUS SEALANT ON BAKER ROD (BOTH SIDES) AT 1/4" SHIM
- GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE
- 4 1/2"

SHN2

- 4 1/2"
- GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE
- GLAZED ALUMINUM ENTRANCE SYSTEM, GLAZING PER SCHEDULE
- 4 1/2"

SJN1

- 4 1/2"
- GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE
- CONTINUOUS SEALANT ON BAKER ROD (BOTH SIDES) AT 1/4" SHIM
- 5/8" GYPSUM BOARD ON METAL STUDS PER PARTITION TYPE DEFINITION
- 4 7/8"

SJN2

- 4 1/2"
- GLAZED ALUMINUM ENTRANCE SYSTEM, GLAZING PER SCHEDULE
- GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE
- CONTINUOUS SEALANT ON BAKER ROD (BOTH SIDES) AT 1/4" SHIM
- METAL CORNER BEAD (TYP.)
- 5/8" GYPSUM BOARD ON METAL STUDS PER PARTITION TYPE DEFINITION
- 4 7/8"

The image contains three technical drawings of different door types, each with interior and exterior views and detailed component labels.

- DH4:**
 - INTERIOR:** Shows a cross-section of the door frame. Labels include: CONCRETE TILT WALL PANEL, STEEL CHANNEL PAINT TO MATCH TILT WALL BASE COLOR, and B (indicating a break in the wall).
 - EXTERIOR:** Shows the door assembly. Labels include: OVERHEAD COILING DOOR HOOD ASSEMBLY, WEATHER SEAL SWEEP, OVERHEAD COILING DOOR, DOOR GUIDE RAILS, and C (indicating a break in the door).
- DJ4:**
 - INTERIOR:** Shows the door frame. Labels include: CONCRETE TILT WALL PANEL, STEEL CHANNEL PAINT TO MATCH TILT WALL BASE COLOR, OPENING WIDTH AS SCHEDULED, and D (indicating a break in the wall).
 - EXTERIOR:** Shows the door assembly. Labels include: RAIL ANCHORAGE BY DOOR MFR., DOOR GUIDE RAILS, WEATHER STRIP SWEEP, OVERHEAD COILING DOOR, and E (indicating a break in the door).
- DS4:**
 - INTERIOR:** Shows the door frame. Labels include: STEEL CHANNEL PAINT TO MATCH TILT WALL BASE COLOR, 1/2" (dimension), SLAB RECESS COORDINATE DOOR POCKET DIMENSIONS WITH DOOR MFR., and F (indicating a break in the wall).
 - EXTERIOR:** Shows the door assembly. Labels include: OVERHEAD COILING DOOR, SAFETY EDGE BOTTOM BAR, FINISHED FLOOR, EMBEDDED STEEL ANGLE AROUND INTERIOR PERIMETER OF DOOR POCKET. REFER TO SPEC., and G (indicating a break in the door).

DS2

INTERIOR

CAULKING JOINT.
METAL CORNER HEAD
GYPSUM BOARD ON 1/8" METAL URRING CHANNELS
METAL CORNER HEAD

EXTERIOR

THRESHOLD BELOW
HOLLOW METAL DOOR AND FRAME (AS SCHEDULED)
GROUT SOLID. EXTERIOR: PRIMED AND PAINTED / INTERIOR: MASTIC COATING, PRIOR TO GROUTING SOLID.
POURABLE SEALANT ALONG 1/2" COMPRESSIBLE FILLER
CONCRETE PAVING
HOLLOW METAL DOOR AND HARDWARE AS SCHEDULED

DJ5

INTERIOR

GLAZING AS SCHEDULED
HM GLAZING STOP AND SETTING STRIP
HOLLOW METAL FRAME (AS SCHEDULED)
GROUT SOLID. EXTERIOR: PRIMED AND PAINTED / INTERIOR: MASTIC COATING, PRIOR TO GROUTING SOLID.
HOLLOW METAL DOOR AND HARDWARE AS SCHEDULED

DJ6

INTERIOR

CONCRETE SLAB. REFER TO FINISH PLAN FOR FLOORING
THRESHOLD PER HARDWARE SETS. SET IN FULL BED OF SEALANT. EXTEND OVER PAVING JOINT.
POURABLE SEALANT ALONG 1/2" COMPRESSIBLE FILLER
CONCRETE PAVING
HOLLOW METAL DOOR AND HARDWARE AS SCHEDULED

EXTERIOR STOREFRONTS

INTERIOR

8"

CAULKING CONT.
METAL CORNER BEAD

EXTERIOR

INSERT SILL PAN FLASHING INTO JOINT A SLAB EDGE BELOW
REFER TO DETAIL **SJX2** FOR TYPICAL COMPONENTS FOR JAM DETAIL

TILT-UP CONCRETE WALL

SJX3

INTERIOR

8"

FACE OF BACK SIDE OF TILT WALL WITHIN STUD CAVITY
GLAZED ALUMINUM STOREFRONT SYSTEM, GLASS PER SCHEDULE
INSERT SILL PAN FLASHING INTO JOINT A SLAB EDGE BELOW
CHAMFERED EDGE (SEE DETAIL SSX1)
CONCRETE PAVING
URETHANE SEALANT ALONG CONTINUOUS COMPRESSIBLE FILLER

SSX3

EXTERIOR

SSN1

ELEVATION TYPE

CONTINUOUS SEALANT ON BACKER ROD (BOTH SIDES) AT 1/4" SHIM

CONCRETE SLAB. REFER TO FINISH PLAN FOR FLOORING.

GLAZED ALUMINUM ENTRANCE DOOR AND GLAZING PER SCHEDULE.

SADDLE THRESHOLD PER HARDWARE SETS

CONCRETE SLAB. REFER TO FINISH PLAN FOR FLOORING.

SSN3

SSN2

SETTING BLOCK (TYP. AT SILLS)

GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE

CONTINUOUS SEALANT ON BACKER ROD (BOTH SIDES) AT 1/4" SHIM

5/8" GYPSUM BOARD ON METAL STUDS PER PARTITION TYPE DEFINITION

SSN4

METAL CORNER BEAD (TYP.)

CONTINUOUS SEALANT ON BACKER ROD (BOTH SIDES) AT 1/4" SHIM

GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE

5/8" GYPSUM BOARD ON METAL STUDS PER PARTITION TYPE DEFINITION

SJN3

CONTINUOUS SEALANT ON BACKER ROD (BOTH SIDES) AT 1/4" SHIM

METAL CORNER BEAD (TYP.)

5/8" GYPSUM BOARD ON METAL STUDS PER PARTITION TYPE DEFINITION

GLAZED ALUMINUM STOREFRONT SYSTEM, GLAZING PER STOREFRONT ELEVATION TYPE

GLAZED ALUMINUM ENTRANCE, GLAZING PER SCHEDULE

EXTERIOR

SSX2

INTERIOR

GENERAL NOTE:
REFER TO DOOR AND WINDOW MANUFACTURERS' "FLORIDA PRODUCT APPROVAL" TEST REPORTS FOR ASSEMBLIES AND ANCHORAGE DETAIL REQUIREMENTS.

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