

FLUVANNA COUNTY FIRE-BURN BUILDING

FLUVANNA COUNTY
CRA PROJECT No. 3461
5/16/2022

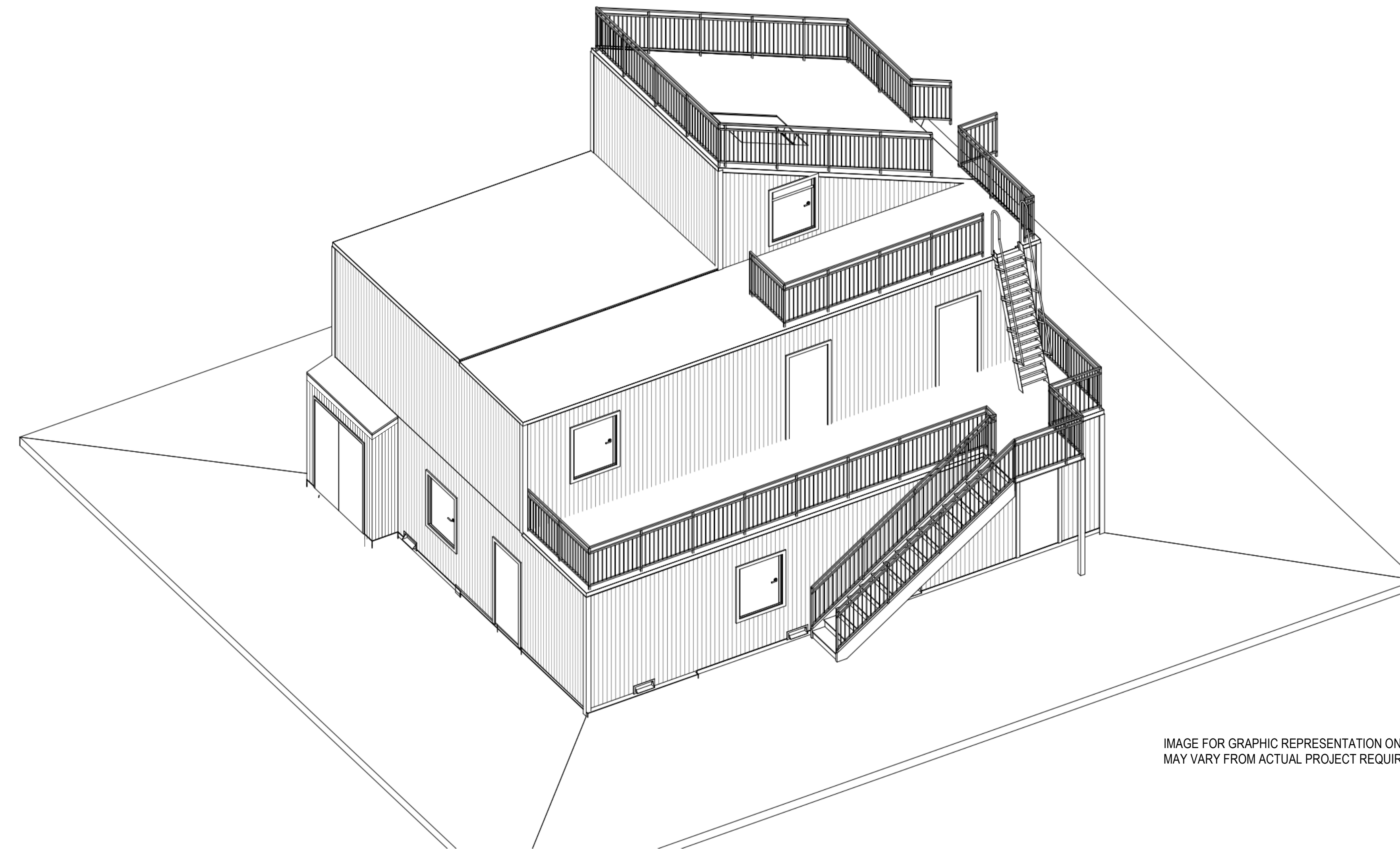


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MAY VARY FROM ACTUAL PROJECT REQUIREMENTS.

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LEGEND

MATERIALS		SYMBOLS	
	UNDISTURBED EARTH		SECTION
	CONTROLLED FILL		SECTION OR DETAIL NUMBER
	CONCRETE		SHEET NUMBER
	GRANULAR FILL		BUILDING SECTION
	CONC MASONRY UNIT		SECTION INDICATOR
	FACE MASONRY UNITS		BUILDING SECTION SHEET NUMBER
	WOOD BLOCKING		DETAIL
	RIGID INSULATION		DETAIL NUMBER
	BATT INSULATION		DETAIL SHEET NUMBER
ARCHITECTURAL DRAWING NO. DESIGNATIONS			EXTERIOR ELEVATION
	INDICATES FLOOR PLANS		ELEVATION NUMBER
	INDICATES SHEET NUMBER		ELEVATION SHEET NUMBER
	INDICATES ELEVATIONS		INTERIOR ELEVATION
	INDICATES SHEET NUMBER		ELEVATION NUMBER
	INDICATES SECTIONS		ELEVATION SHEET NUMBER
	INDICATES LARGE SCALE PLANS		DOOR TAG
	INDICATES SHEET NUMBER		DOOR NUMBER
	INDICATES GENERAL DETAILS		WINDOW TAG
	INDICATES SHEET NUMBER		WINDOW ELEVATION
	INDICATES SCHEDULES AND FRAME ELEVATIONS		WALL TYPE TAG
	INDICATES SHEET NUMBER		WALL IDENTIFICATION
	INDICATES INTERIOR LARGE SCALE LAYOUTS		MILLWORK SECTION
	INDICATES SHEET NUMBER		SECTION OR DETAIL NUMBER
	INDICATES FLOOR PATTERN LAYOUTS		DETAIL SHEET NUMBER
	INDICATES SHEET NUMBER		ROOM TAG
	INDICATES SHEET NUMBER		ROOM NAME
	INDICATES SHEET NUMBER		BUILDING & ROOM NUMBER
	INDICATES SHEET NUMBER		NORTH ARROW

ARCHITECTURAL ABBREVIATIONS

THIS ABBREVIATION LIST IS A STANDARD AND NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT

ABV ABOVE	AC ACOUSTICAL	ACT ACOUSTICAL CEILING TILE	AED AUTOMATED EXTERNAL DEFIBRILLATOR	AFF ABOVE FINISH FLOOR	ALUM ALUMINUM	ALT ALTERNATE	AP ACCESS PANEL	ARCH ARCHITECT(URAL)	BD BOARD	BIT BITUMINOUS	BLDG BUILDING	BLK BLOCKING	BM BENCH MARK	BOT BOTTOM	BRG BEARING	BSMT BASEMENT	CLR CLEAR	CL CENTERLINE	CJ CONTROL JOINT	CLG CEILING	CMJ CONCRETE MASONRY UNIT	COL COLUMN	CONC CONCRETE	CONT CONTINUOUS	CONST CONSTRUCTION	CONTR CONTRACTOR	COORD COORDINATE	CT CERAMIC TILE	DEMO DEMOLITION	DET DETAIL	DF DRINKING FOUNTAIN	DIM DIMENSION	DN DOWN	DR DOOR	DS DOWNSPOUT	DWG DRAWING	EA EACH	EC ELECTRICAL CONTRACTOR	EJ EXPANSION JOINT	EL ELEVATION	ELEC ELECTRICAL	ELEV ELEVATOR	ENT ENTRANCE	EQ EQUAL	EQUIP EQUIPMENT	EX EXISTING	EXP EXPOSED	EXT EXTERIOR	EW EACH WAY	FD FLOOR DRAIN	FE FIRE EXTINGUISHER (CABINET)	FIE FINISHED FLOOR ELEVATION	FIN FINISHED	FL FLOOR	FRG FIRE RATED GLASS	FRP FIBERGLASS REINFORCED PANEL	FRT FIRE RETARDANT	FT FOOT or FEET	GA GAUGE	GALV GALVANIZED	GC GENERAL CONTRACTOR	GFCMU GROUND FACE CONCRETE MASONRY UNIT	GL GLASS	GCMU GLAZED CONCRETE MASONRY UNIT	GWB GYPSUM WALL BOARD	GWBMR GYPSUM WALL BOARD ABUSE RESISTANT	GWBR GYPSUM WALL BOARD MOISTURE RESISTANT	GWBRF GYPSUM WALL BOARD FIRE RATED	HC HANDICAPPED	HOW HARDWARE	HGT HEIGHT	HP HIGH POINT	HM HOLLOW METAL	HORIZ HORIZONTAL	HVAC HEATING, VENTILATION & AIR CONDITIONING	ID INSIDE DIAMETER	IG INSULATED GLASS	INFO INFORMATION	INSUL INSULATION	INT INTERIOR	INV INVERT	JST JOIST	JT JOINT	KLAR KIT (KITCHENETTE)	LAM LAMINATE	LAV LAVATORY	LB POUND	LF LINEAL FEET	LG LAMINATED GLASS	LLH LONG LEG HORIZONTAL	LLV LONG LEG VERTICAL	LP LOW POINT	MFR MANUFACTURER	MAT MATERIAL	MAX MAXIMUM	MC MECHANICAL CONTRACTOR	MECH MECHANICAL	MEP MECHANICAL, ELECTRICAL, PLUMBING	MIN MINIMUM	MISC MISCELLANEOUS	MO MASONRY OPENING	MTD MOUNTED or MOUNTING	NIC NOT IN CONTRACT	NO NUMBER	NOM NOMINAL	NTS NOT TO SCALE	OC ON CENTER	OD OUTSIDE DIAMETER	OPNG OPENING	OPP OPPOSITE	PTN PARTITION	PC PLUMBING CONTRACTOR	PL PLATE	PLAM PLASTIC LAMINATE	PLYWD PLYWOOD	PSF POUNDS PER SQUARE FOOT	PSI POUNDS PER SQUARE INCH	PTD PAINTED	QT QUARRY TILE	R RISER or RADIUS	RD ROOF DRAIN	REC RECESSED	RECT RECTANGLE	REINF REINFORCED or REINFORCING	REQD REQUIRED	RM ROOM	RO ROUGH OPENING	RWC RAIN WATER CONDUCTOR	SCH SCHEDULE	SECT SECTION	SF SQUARE FEET	SFCMU SPLIT FACE CONCRETE MASONRY UNIT	SFRM SPRAY-APPLIED FIRE RESISTIVE MATERIAL	SH SHEATHING	SM SIMILAR	SJ SCORE JOINT	SPECS SPECIFICATIONS	SQ SQUARE	SS STAINLESS STEEL	STD STANDARD	STR STRUCTURAL	SYN SYNTHETIC	T TREAD	TG TEMPERED GLASS	THK THICKNESS	TOM TOP OF MASONRY	TOP TOP OF PLANK	TOS TOP OF STEEL	TYP TYPICAL	UL UNDERWRITERS LABORATORIES	UNO UNLESS NOTED OTHERWISE	VCT VINYL COMPOSITION TILE	VERT VERTICAL	VIF VERIFY IN FIELD	WP WATERPROOFING	W WITH	WD WOOD	WG WIRE GLASS
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ABBREVIATION SYMBOLS

@	AT
Ø	CENTER LINE
∅	DIAMETER
±	PLUS OR MINUS

DRAWING LIST	
SHEET NO.	SHEET NAME
GENERAL	
CS.1	COVER SHEET
CS.2	GENERAL INFORMATION
CIVIL	
C1.0	COVER SHEET
C1.1	GENERAL NOTES AND ABBREVIATIONS
C1.2	EROSION AND SEDIMENT CONTROL NOTES
C1.3	EROSION AND SEDIMENT CONTROL NARRATIVE
C2.0	TOPOGRAPHY SURVEY
C3.0	DEMOLITION AND PHASE 1 E&S PLAN
C4.0	SITE LAYOUT AND UTILITY PLAN
C4.1	WATER AND STORM PROFILES
C5.0	GRADING AND PHASE 2 E&S PLAN
C5.1	PRE- & POST - DEVELOPMENT HYDROLOGY PLAN
C5.2	STORMWATER MANAGEMENT CALCS & DETAILS
C6.0	EROSION AND SEDIMENT CONTROL DETAILS
C6.1	DETAILS
C6.2	DETAILS
ARCHITECTURAL	
A1.1	FIRST & SECOND FLOOR PLAN
A1.2	THIRD & ROOF FLOOR PLAN
A1.3	FIRST AND SECOND FLOOR REFLECTED CEILING PLANS
A2.1	OVERALL EXTERIOR ELEVATIONS
A3.1	BUILDING SECTIONS
A3.2	WALL SECTIONS
A4.1	LARGE SCALE PLANS
A4.2	LARGE SCALE PLANS
A5.1	DETAILS
A5.2	DETAILS
A6.1	DOOR SCHEDULE, FRAME AND DOOR TYPES, DOOR AND WINDOW DETAILS
STRUCTURAL	
S0.1	GENERAL STRUCTURAL NOTES
S1.1	FOUNDATION AND FRAMING PLANS
S2.1	FOUNDATION DETAILS
S3.1	FRAMING DETAILS
S3.2	FRAMING SECTIONS
S4.1	BRACED FRAMES
FIRE PROTECTION	
FP1.1	FIRST AND SECOND FLOOR PLANS
ELECTRICAL	
E0.1	ELECTRICAL - LEGEND
E0.2	ELECTRICAL - SPECIFICATIONS
E0.3	ELECTRICAL - SPECIFICATIONS
E2.1	ELECTRICAL - FLOOR PLANS
E3.1	ELECTRICAL - RISERS
E4.1	ELECTRICAL - DETAILS

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REVISIONS

NO.	DATE	DESCRIPTION OF CHANGES

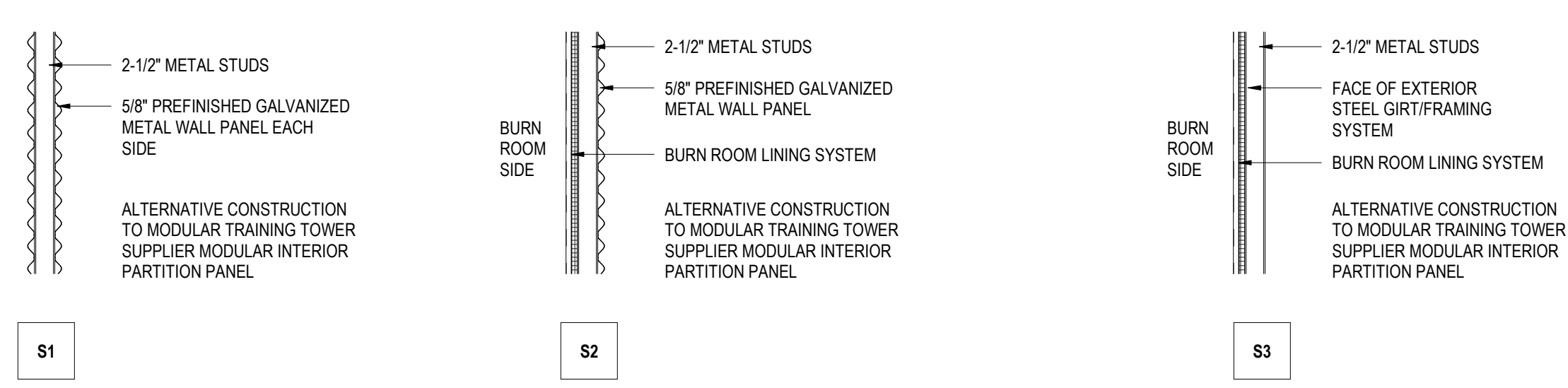
CRABTREE ROHRBAUGH & ASSOCIATES - ARCHITECTS
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 434-975-7262

MECHANICSBURG, PENNSYLVANIA
 TOWSON, MARYLAND
 WHITE SULPHUR SPRINGS, WEST VIRGINIA

www.cra-architects.com

FLUVANNA COUNTY FIRE-BURN BUILDING
 FLUVANNA COUNTY
 5725 JAMES MADISON HIGHWAY, PALMYRA, VIRGINIA

INTERIOR STUD WALL TYPES



GENERAL NOTES: WALL TYPES

- ALL INTERIOR PARTION WALLS WHICH ARE NOT TAGGED OR OTHERWISE DETAILED SHALL BE TYPE S1.
- AT INTERIOR PARTION WALLS WITH METAL WALL PANEL AND/OR BURN ROOM LINING SYSTEM, PANELS TO EXTEND TO UNDERSIDE OF DECK ABOVE UNLESS NOTED OTHERWISE.
- SEE SECTIONS, STRUCTURAL DRAWINGS AND ELEVATIONS FOR FURTHER DETAIL OF WALL CONSTRUCTION.

CODE INFORMATION

FLUVANNA COUNTY FIRE-BURN BUILDING
 FLUVANNA COUNTY, VIRGINIA

BUILDING CODE INFORMATION:

APPLICABLE BUILDING CODES:
 2015 VIRGINIA CONSTRUCTION CODE (VCC)
 2009 ICC/ANSI A117.1
 2010 ADA STANDARDS (ADA)

PROPOSED BUILDING:
 CONSTRUCTION CLASSIFICATION: TYPE IIB

OCCUPANCY CLASSIFICATION: UTILITY

AUTOMATIC SPRINKLER SYSTEM: NOT REQUIRED

PROPOSED BUILDING AREAS:
 FIRST FLOOR: 1,280 SQUARE FEET
 SECOND FLOOR: 861 SQUARE FEET
 TOTAL: 2,141 SQUARE FEET

ALLOWABLE BUILDING AREA:
 FLOOR: 8,500 GROSS SQUARE FEET

PROPOSED BUILDING HEIGHT:
 HEIGHT: 27 FEET (ROOF PEAK)
 STORIES: 2 STORIES

ALLOWABLE BUILDING HEIGHT:
 HEIGHT: UNSPECIFIED
 STORIES: 2 STORIES



GENERAL INFORMATION

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

FILENAME:

DATE:
 5/16/2022

PROJECT
 3461
CS.2

SITE PLAN

* * *

FORK UNION FIRE TRAINING BUILDING SITE

* * *

FLUVANNA COUNTY, VIRGINIA

SITE SUMMARY

CONTACT: CYNDI TOLER
PURCHASING OFFICER
COUNTY OF FLUVANNA
132 MAIN ST.
PALMYRA, VA 22963

TELEPHONE NO: 434-591-1930
EMAIL: ctoler@fluvannacounty.org

SITE ADDRESS: 5725 JAMES MADISON HIGHWAY
FLUVANNA COUNTY, VIRGINIA

ENGINEER: DRAPER ADEN ASSOCIATES
110 AVON STREET
CHARLOTTESVILLE, VA 22902

CONTACT: CAROLYN A. HOWARD, P.E.
TELEPHONE NO. 434-295-0700
EMAIL: CHOWARD@DAA.COM

PARCEL NO: TM 51-A-129

SITE COVERAGE: PROPOSED BUILDING AND ROAD 4% COVERAGE (0.39 AC./9.82 AC.)

TOTAL SITE AREA (PARCEL AREA): 9.82 AC

DISTURBED AREA: 0.98 AC

EXISTING IMPERVIOUS AREA: 5,207 SF

IMPERVIOUS AREA: 35,864 SF

PRESENT ZONING: I-1 (INDUSTRIAL, LIMITED)

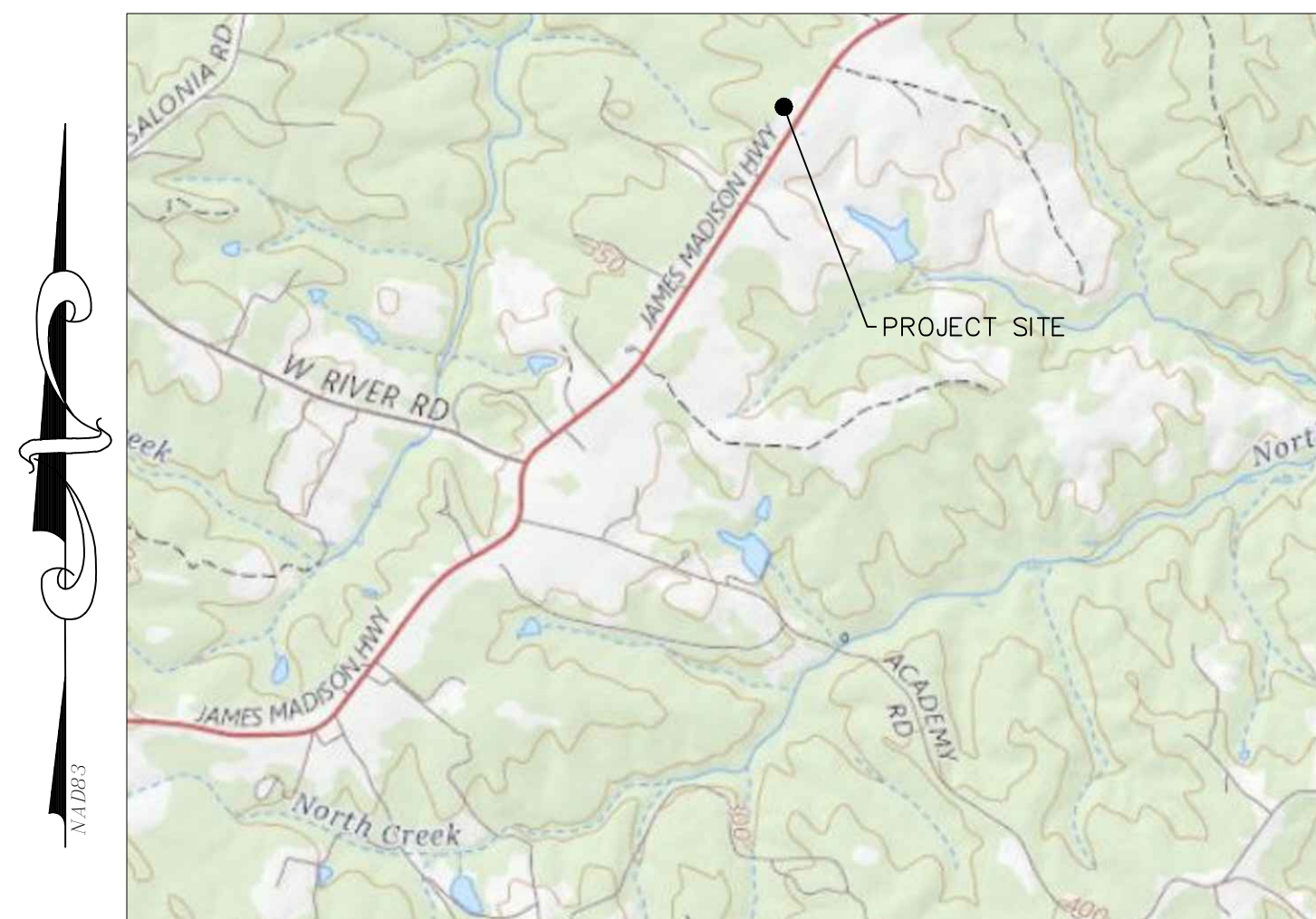
PRESENT USE: COMMUNITY CENTER, PARKING, AND AMENITIES

PROPOSED USE: FIRE TRAINING BUILDING AND ACCESS ROAD

MAX. HEIGHT OF BUILDING: 60 FEET
(A PUBLIC OR SEMI-PUBLIC BUILDING MAY BE ERECTED TO A HEIGHT OF SIXTY FEET (60') FROM GRADE PROVIDED THAT REQUIRED FRONT, SIDE AND REAR YARD EACH SHALL BE INCREASED ONE FOOT (1') FOR EACH FOOT IN HEIGHT OVER FORTY-FIVE FEET (45').)

BUILDING SETBACK: BUILDINGS AND ACCESSORY USES SHALL BE LOCATED NOT LESS THAN ONE HUNDRED FEET (100') FROM ANY STREET RIGHT-OF-WAY. ALL PARKING LOTS SHALL BE LOCATED NOT LESS THAN FIFTY FEET (50') FROM ANY STREET RIGHT OF WAY. ALL PARKING LOTS SHALL BE LOCATED NOT LESS THAN TWENTY-FIVE FEET (25') FROM ANY STREET RIGHT OF WAY.

YARD SETBACK: WHEN PERMITTED USES ADJOIN AGRICULTURAL, RESIDENTIAL, OR BUSINESS DISTRICTS THE MINIMUM YARD REQUIREMENTS SHALL BE FIFTY FEET (50'). ALL PARKING LOTS SHALL BE LOCATED NOT LESS THAN TWENTY-FIVE FEET (25') FROM ANY RESIDENTIAL OR AGRICULTURAL DISTRICT.



VICINITY MAP

1"=2000'

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A FIRE TRAINING BUILDING AND SITE IMPROVEMENTS, INCLUDING A BUILDING PAD AND A PAVED DRIVE TO THE SITE.

Sheet List Table

Sheet Number	Sheet Title
C1.0	COVER SHEET
C1.1	GENERAL NOTES AND ABBREVIATIONS
C1.2	EROSION AND SEDIMENT CONTROL NOTES
C1.3	EROSION AND SEDIMENT CONTROL NARRATIVE
C2.0	TOPOGRAPHIC SURVEY
C3.0	DEMOLITION AND PHASE 1 E&S PLAN
C4.0	SITE LAYOUT AND UTILITY PLAN
C4.1	WATER AND STORM PROFILES
C5.0	GRADING AND PHASE 2 E&S PLAN
C5.1	PRE- & POST-DEVELOPMENT HYDROLOGY PLAN
C5.2	STORMWATER MANAGEMENT CALCS & DETAILS
C6.0	EROSION & SEDIMENT CONTROL DETAILS
C6.1	DETAILS
C6.2	DETAILS

DIRECTOR OF PLANNING SIGNATURE DATE

I HEREBY CERTIFY THAT I AM THE RESPONSIBLE LAND DISTURBER FOR THIS PROJECT AND THAT I HAVE A VALID CERTIFICATION FROM THE STATE OF VIRGINIA

Carolyn A. Howard VA PE LIC. #042775
SIGNATURE CERTIFICATION #

CAROLYN A. HOWARD 5/16/2022
NAME (PRINT) DATE

RESPONSIBLE LAND DISTURBER (RLD) FOR THE PURPOSES OF PLAN REVIEW IS CAROLYN A. HOWARD, PE OF DRAPER ADEN ASSOCIATES, PE#042775. CONTRACTOR TO PROVIDE THE RLD NAME AND CERTIFICATION NUMBER OF THE INDIVIDUAL OF RESPONSIBLE CHARGE PRIOR TO CONSTRUCTION.

DRAPER ADEN ASSOCIATES REVIEW

THESE PLANS HAVE BEEN SUBJECTED TO TECHNICAL AND QUALITY REVIEWS BY:

MARCUS RICHARDSON	<i>Marcus Richardson</i>	05/16/2022
NAME: PRINTED	SIGNATURE	DATE
PROJECT DESIGNER		
CAROLYN A. HOWARD, P.E.	<i>Carolyn A. Howard</i>	05/16/2022
NAME: PRINTED	SIGNATURE	DATE
PROJECT MANAGER		
CAMPBELL BOLTON, P.E.	<i>E. Campbell Bolton</i>	05/16/2022
NAME: PRINTED	SIGNATURE	DATE
QUALITY REVIEWER		



NOTE: CONTRACTOR TO CONTACT MISS UTILITY (811) IN ADVANCE OF PLANNED WORK. ADVANCE TIME PERIOD SHALL BE IN ACCORDANCE WITH CURRENT MISS UTILITY GUIDELINES (www.missutilityofvirginia.com).

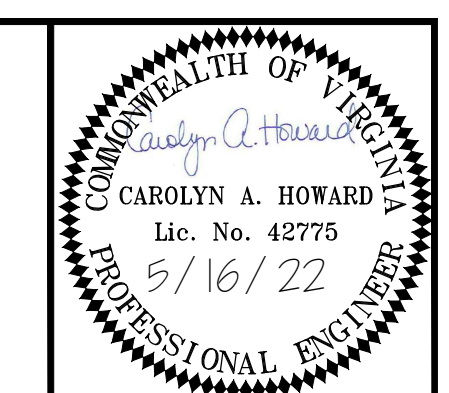
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MAY 16, 2022

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DAA PROJECT #18060133-010303

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Blacksburg, VA
Northern Virginia
Hampden Roads, VA
Virginia Beach, VA

COVER SHEET
FORK UNION FIRE TRAINING BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

REVISIONS

DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	NONE
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301
C1.0	

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GENERAL NOTES

1. THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM FLUVANNA COUNTY.
2. AS DISTURBANCE IS LESS THAN 1.0 AC, A V SMP PERMIT IS NOT REQUIRED.
3. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
4. ALL GRADING, PAVING MATERIALS, AND DRAINAGE STRUCTURES SHALL CONSTRUCTED IN ACCORDANCE WITH VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS, EXCEPT WHERE NEEDED OTHERWISE.
5. THE LOCATION OF EXISTING SEWER, WATER OR GAS LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS, IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS. FOR ASSISTANCE IN LOCATING EXISTING UTILITIES CALL "MISS UTILITY", 1-800-552-7001.
6. ALL WATER CONSTRUCTION AND MATERIALS SHALL CONFORM WITH THE LATEST STANDARDS AND SPECIFICATIONS OF FORK UNION SANITATION DISTRICT.
7. DAMAGE TO UTILITIES (INCLUDING UNDERGROUND) OR PROPERTY OF OTHERS BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY CONTRACTOR AT NO COST TO OWNER.
8. EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY CONTRACTOR (WHICH ARE NOT TO BE REMOVED) SHALL BE REPAIRED TO LIKE-NEW CONDITION.
9. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
10. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED.
11. ALL PROPOSED UTILITIES ARE TO BE INSTALLED UNDERGROUND INCLUDING ELECTRIC, TELEPHONE AND CATV.
12. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, ELECTRICITY, TELEPHONE, ETC.) SHALL BE INSTALLED AND TESTED SATISFACTORILY PRIOR TO COMMENCING ANY PAVING OPERATIONS WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAVEMENT.
13. THE CONTRACTOR SHALL NOTIFY FLUVANNA COUNTY AT LEAST 24 HOURS PRIOR TO STARTING WORK ON THIS PROJECT.
14. ALL GROUND COVER AND LANDSCAPING SHALL BE PROPERLY MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. DEAD PLANT MATERIALS SHALL BE REMOVED IN A REASONABLE TIME AND REPLACED DURING THE NORMAL PLANTING SEASON.
15. UNLESS OTHERWISE NOTED, ALL CONCRETE PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS III.
16. ALL EXCAVATION FOR UNDERGROUND PIPE INSTALLATION MUST COMPLY WITH OSHA STANDARDS FOR THE CONSTRUCTION INDUSTRY (29 CFR PART 1926).
17. VERIFY THE PROPOSED LAYOUT WITH ITS RELATIONSHIP TO THE EXISTING SITE SURVEY. ALSO VERIFY ALL DIMENSIONS, SITE CONDITIONS, AND MATERIAL SPECIFICATIONS, AND NOTIFY THE OWNER AND ENGINEER OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
18. DEVIATIONS FROM, OR CHANGES TO THESE PLANS WILL NOT BE ALLOWED, UNLESS OTHERWISE APPROVED BY THE OWNER & ENGINEER.
19. MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO THE PLANS IF NECESSARY. THE EXISTENCE AND/OR LOCATION OF UTILITIES SHOWN ON THESE PLANS MAY BE ONLY APPROXIMATELY CORRECT. TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN HEREON AND ANY OTHER EXISTING UTILITIES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. REPAIR AT YOUR OWN EXPENSE, ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. IF A UTILITY IS DAMAGED DURING CONSTRUCTION, STOP WORK IMMEDIATELY AND NOTIFY THE ENGINEER.
20. PROPERLY SECURE THE CONSTRUCTION AREA AT ALL TIMES AGAINST UNAUTHORIZED ENTRY AND ADEQUATELY PROTECT EQUIPMENT, MATERIALS, AND COMPLETED WORK FROM THEFT AND VANDALISM. THE OWNER IS NOT RESPONSIBLE FOR THE LOSS OF ANY MATERIAL STORED AT THE SITE.
21. ALL TURF AREAS THAT ARE IMPACTED OR DISTURBED BY VEHICLES, EQUIPMENT, OR ACTIVITY SHALL BE REPAIRED, REGRADED, AND RESEEDED TO THE SATISFACTION OF THE OWNER. ANY AREAS COMPACTED BY CONSTRUCTION TRAFFIC SHALL BE TILLED PRIOR TO SEEDING.
22. PERFORM ALL WORK USING DIMENSIONS SHOWN ON THESE PLANS. DO NOT USE SCALES, RULERS, DIVIDERS, MAP WHEELS OR OTHER MEASURING DEVICES TO DETERMINE SPATIAL RELATIONSHIPS ON THESE DRAWINGS.
23. ALL UNSUITABLE MATERIAL AS DETERMINED BY OWNER'S INSPECTOR SHALL BE REMOVED FROM THE CONSTRUCTION LIMITS OF PAVED AREAS.
24. CONCRETE DRAINAGE STRUCTURES MAY BE EITHER PRECAST OR CAST-IN-PLACE. ALL SHALL BE VDOT STANDARD (PER SECTION 100 OF THE ROAD AND BRIDGE STANDARDS.) ALL CONCRETE STRUCTURES SHALL HAVE IS-1 SHAPING IN ACCORDANCE TO VDOT STANDARDS.
25. ALL STORM SEWER SHALL BE DUAL WALL HDPE PIPE WITH SMOOTH INTERIOR AND CORRUGATED EXTERIOR WALLS MEETING AASHTO M252, TYPE S FOR 4" THROUGH 10" AND AASHTO M294, TYPE S FOR 12" THROUGH 60" OR PVC CORRUGATED SEWER PIPE WITH SMOOTH INTERIOR MEETING ASTM F949 OR REINFORCED CONCRETE PIPE, EXCEPT AS NOTED. MINIMUM COVER IN PAVED AREAS SHALL BE 2.0'.
26. ALL STORM SEWER SHALL HAVE A MINIMUM OF 6" AGGREGATE BEDDING MATERIAL.
27. THE PIPING SHOULD BE AWWA C900 WITH BELL AND SPIGOT ENDS, BEING THAT THIS IS A TRAINING FACILITY. MEGALUG MECHANICAL RESTRAINTS AT EACH PIPE JOINT TO PROTECT AGAINST WATER HAMMER. ALL FITTINGS (TEES, ELBOWS, END CAPS, HYDRANTS, VALVES, ETC.) SHOULD BE DUCTILE IRON WITH MEGALUG MECHANICAL RESTRAINTS. THRUST BLOCKS SHOULD BE PLACED (NOT POURED) BEHIND ALL TEES, ELBOWS, LINE ENDINGS, AND HYDRANT CONNECTIONS.
28. BURIED GATE VALVES SHOULD BE NON-RISING-STEM TO PROTECT AGAINST DEBRIS

GENERAL LEGEND

EXISTING		PROPOSED
	CONTOURS	
	GROUND ELEVATION	
	TREE LINE	
	DECIDUOUS TREE	N/A
	FENCE	
	PROPERTY LINE/ROW	
	IRON ROD FOUND	N/A
	IRON ROD SET	N/A
	MONUMENT FOUND	N/A
	MONUMENT SET	N/A
	BUILDING SETBACK	
	100 YEAR FLOOD ZONE	N/A
	LIMITS OF CONSTRUCTION	N/A
	BENCHMARK	N/A
	BUILDING	
	DEMOLITION KEY	
	BOLLARD	
	BOREHOLE	
	STORM SEWER	
	STORM CLEANOUT	
	STORM MANHOLE	
	STORM DRAINAGE INLET	
	STORM STRUCTURE KEY	
	WATER	
	GATE VALVE	
	LIGHT POLE	

ABBREVIATIONS AND SYMBOLS

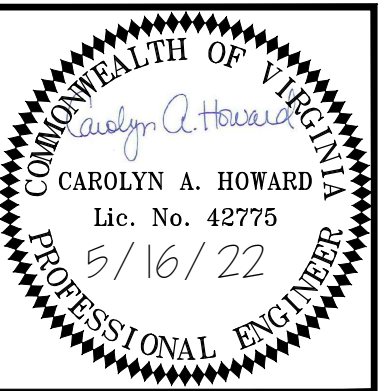
SYMBOLS

⊙	AT
⊖	CENTERLINE
⊕	PROPERTY LINE
⊗	DIAMETER
°	DEGREE

ABBREVIATIONS

A	AREA
AC	ACRE(S)
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BOTTOM OF CURB
BLDG.	BUILDING
BOTT.	BOTTOM
CF	CUBIC FEET
CG	CURB AND GUTTER
C.I.	CAST IRON
CI	CURB INLET
CIP	CAST IN PLACE
CJ	CONSTRUCTION JOINT
CLR.	CLEAR
C.O.	CLEANOUT
CONC.	CONCRETE
CONT.	CONTINUOUS
CY	CUBIC YARD(S)
D.B.	DEED BOOK
D.I.	DUCTILE IRON
DI	DROP INLET
DIA.	DIAMETER
DS	DOWNSPOUT
EA.	EACH
E.F.	EACH FACE
ELEV.	ELEVATION
EOP	EDGE OF PAVEMENT
EX.	EXISTING
EXP.	EXPANSION
E.W.	EACH WAY
FC	FACE OF CURB
FF	FINISHED FLOOR
FL	FLOW LINE
FT	FOOT (FEET)
GA	GAUGE

GALV.	GALVANIZED
GS	GROUND SHOT
ID	INSIDE DIAMETER
INV.	INVERT
JT.	JOINT
LAT	LATERAL
LB	POUND
LBS	POUNDS
LF	LINEAR FOOT (FEET)
MAT'L.	MATERIAL
MAX.	MAXIMUM
MFR.	MANUFACTURER
MH	MANHOLE
MIN.	MINIMUM
M.J.	MECHANICALLY JOINED
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
PB	PARCEL BOOK
PL	PROPERTY LINE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D.	REQUIRED
R/W	RIGHT-OF-WAY
S	SLOPE
SAN.	SANITARY
SF	SQUARE FOOT (FEET)
SPEC	SPECIFICATION
SPECS	SPECIFICATIONS
SQ.	SQUARE
STM	STORM
STD.	STANDARD
SW	SIDEWALK
SWM	STORM WATER MANAGEMENT
SY	SQUARE YARD(S)
TC	TOP OF CURB
TDC	TURNDOWN CURB
TEMP.	TEMPORARY
TYP.	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAR.	VARIABLE
VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
VESCH	VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK
WV	WATER VALVE
WWF	WELDED WIRE FABRIC



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- Richmond, VA
- Blacksburg, VA
- Hampton Roads, VA

GENERAL NOTES AND ABBREVIATIONS
FORK UNION FIRE TRAINING
BUILDING SITE
 FLUVANNA COUNTY, VIRGINIA

REVISIONS

DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	NONE
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C1.1

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION
PROPOSED FIRE TRAINING BUILDING INCLUDING SITE GRADING AND INFRASTRUCTURE IMPROVEMENTS ON AN EXISTING 9.82 AC. LOT IN FLUVANNA COUNTY, VIRGINIA.

EXISTING CONDITIONS
APPROXIMATELY 1/4 OF THE EXISTING SITE CLOSEST TO JAMES MADISON HIGHWAY HAS BEEN CLEARED, AND CONTAINS A COMMUNITY CENTER ON IT. THE REMAINING SOUTHERN PORTION OF THE SITE IS HEAVILY WOODED. THE SITE SLOPES TOWARDS AN EXISTING CONCRETE DITCH AND MANMADE CHANNEL AT THE NORTH WESTERN END OF THE PROPERTY AT A SLOPE OF APPROXIMATELY 3%.

SOILS
THE SOILS ON THE SITE, PER USDA NRCS SOIL MAPPING, ARE CLASSIFIED AS AK-APPLYING SANDY LOAM, UNDULATING PHASED, HYDROLOGIC SOIL GROUP (HSG) "B".

ADJACENT AREAS
THE SUBJECT PROPERTY IS BORDERED BY A WOODED LOT TO THE SOUTH-WEST; FIRE STATION OWNED BY THE COUNTY TO THE NORTH-EAST; AND A WOODED LOT TO THE NORTH-WEST.

CRITICAL EROSION AREAS
THERE ARE NO CRITICAL EROSION AREAS IDENTIFIED FOR THIS SITE.

STOCKPILING
TEMPORARY SOIL STOCKPILE AREA(S) WILL BE LOCATED ON THE SITE (SEE SHEET C3.0 FOR LOCATION). CARE SHALL BE TAKEN TO ENSURE PROPER EROSION AND SEDIMENTATION CONTROL OF THE SITE AT ALL TIMES.

STRUCTURAL PRACTICES

1. TEMPORARY CONSTRUCTION ENTRANCE - 3.02
A STONE PAD, LOCATED AT THE POINT OF VEHICULAR INGRESS AND EGRESS TO THE CONSTRUCTION SITE. THE PURPOSE IS TO PREVENT OR REDUCE THE AMOUNT OF MUD TRANSPORTED TO THE PUBLIC ROAD. SEDIMENT DISLODGED OR WASHED FROM THE VEHICLE SHOULD BE CONTAINED WITHIN A PROPER SEDIMENT TRAPPING AREA. ALL VEHICLES ENTERING AND EXISTING A DISTURBED AREA SHALL USE THE ENTRANCE.
2. SUPER SILT FENCING (WITH WIRE BACKING) - 3.05
TO BE INSTALLED DOWN SLOPE OF DISTURBED AREAS TO FILTER SEDIMENT LADEN RUNOFF.
3. INLET PROTECTION - 3.07
TO BE INSTALLED ON EXISTING INLETS PRIOR TO CONSTRUCTION AND ALL PROPOSED INLETS AS THEY ARE INSTALLED TO FILTER SEDIMENT LADEN RUNOFF BEFORE ENTERING STORM DRAIN INLETS AND PIPING SYSTEMS.
4. TEMPORARY DIVERSION DIKE - 3.09
WHEREVER STORMWATER RUNOFF MUST BE TEMPORARILY DIVERTED TO PROTECT DISTURBED AREAS AND SLOPES OR RETAIN SEDIMENT ON SITE DURING CONSTRUCTION. THESE STRUCTURES GENERALLY HAVE A LIFE EXPECTANCY OF 18 MONTHS OR LESS, WHICH CAN BE PROLONGED WITH PROPER MAINTENANCE.
5. OUTLET PROTECTION - 3.18
OUTLET PROTECTION APPLICABLE TO THE OUTLETS OF ALL PIPES AND ENGINEERED CHANNEL SECTIONS.
6. TREE PROTECTION - 3.38
TEMPORARY FENCE TO BE INSTALLED AROUND TREES OR VEGETATION TO REMAIN TO PREVENT DAMAGE DURING CONSTRUCTION. THE FENCING SHALL BE INSTALLED ALONG THE DRIP LINE OF THE TREE WHERE POSSIBLE. NO CONSTRUCTION TRAFFIC OR STORAGE OF MATERIALS IS ALLOWED WITHIN THE FENCING.

VEGETATIVE PRACTICES

GENERAL: A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDEED AREAS NOT OTHERWISE PERMANENTLY STABILIZED BY CONCRETE, PAVEMENT OR LANDSCAPED MULCHED BEDS. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION. NEW VEGETATION SHALL BE MAINTAINED FOR ONE FULL YEAR AFTER PLANTING. NEW SEEDING SHALL BE SUPPLIED WITH ADEQUATE MOISTURE, ESPECIALLY LATE IN THE SEASON, AND IN ABNORMALLY HOT OR DRY WEATHER. STABILIZATION PRACTICES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE APPROPRIATE VESCH STD. & SPEC. AND AS PER THE EROSION AND SEDIMENT CONTROL PLAN. SELECTION OF THE APPROPRIATE SEED MIXTURE FOR TEMPORARY SEEDING WILL DEPEND UPON THE TIME OF YEAR IT IS APPLIED.

1. TOPSOILING - 3.30
A 2" TO 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL LANDSCAPED AND GRASSED AREAS. THE TOPSOIL SHALL BE FREE OF ROCKS AND DEBRIS. TOPSOIL ALLOWS A STRONGER AND HEALTHIER STAND OF GRASS TO ESTABLISH QUICKLY TO STABILIZE UNPAVED AREAS OF THE SITE.
2. TEMPORARY SEEDING - 3.31
TEMPORARY SEEDING SHALL BE APPLIED OVER ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE WITHIN 14 DAYS. AREAS SHALL BE RESEDED AS REQUIRED TO MAINTAIN A HEALTHY STAND OF VEGETATION WHICH IS CAPABLE OF PREVENTING EROSION. TEMPORARY SEEDING MIXES AND MAINTENANCE PROCEDURES SHALL BE AS DESCRIBED IN VESCH STD. & SPEC. 3.31.
3. PERMANENT SEEDING - 3.32
PERMANENT SEEDING SHALL BE APPLIED TO ALL AREAS WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE WHICH WILL NOT RECEIVE HARDSCAPE OR OTHER LANDSCAPE. PERMANENT SEEDING SHALL ALSO BE USED ON ALL AREAS NOT AT FINAL GRADE BUT WILL BE LEFT DORMANT FOR A PERIOD OF MORE THAN ONE (1) YEAR. IF CONFLICTS EXIST BETWEEN THE PROJECT SPECIFICATIONS AND THE VESCH STD. & SPEC. 3.32, THE MORE STRINGENT REQUIREMENT SHALL APPLY. PERMANENT SEEDING MIXES AND RATES, SOIL TESTING REQUIREMENTS AND MAINTENANCE PROCEDURES ARE FOUND IN VESCH STD. & SPEC. 3.32.
4. MULCHING - 3.35
APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND REDUCING THE VELOCITY OF OVERLAND FLOW. IT IS ALSO USED TO FOSTER THE GROWTH OF VEGETATION BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST EXTREME HEAT AND COLD. MULCHING WILL BE APPLIED THROUGHOUT CONSTRUCTION ON DENUDEED AREAS. APPLICATION RATES AND MULCHING TYPES ARE FOUND IN VESCH STD. & SPEC. 3.35.
5. DUST CONTROL - 3.39
DUST CONTROL MEASURES SHALL BE USED OVER THE ENTIRE SITE TO REDUCE SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBANCE, DEMOLITION, AND CONSTRUCTION ACTIVITIES.

MANAGEMENT STRATEGIES

- CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- THE CONSTRUCTION ENTRANCE, THE PROPOSED SILT FENCES, TREE PROTECTION AND INLET PROTECTION MUST BE INSTALLED FIRST WITH MINIMAL AMOUNTS OF CLEARING AND GRADING.
- STOCKPILES SHALL BE PROTECTED WITH SILT FENCING AT ALL TIMES AND SEEDED IF LEFT TO REMAIN ON THIS SITE FOR A PERIOD OF MORE THAN 14 DAYS.

- TEMPORARY SEEDING OR OTHER STABILIZATION WILL FOLLOW IMMEDIATELY AFTER GRADING.
- THE CONTRACTOR (JOB SUPERINTENDENT) SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL PRACTICES.
- WITHIN 30 DAYS AFTER ACHIEVING ADEQUATE STABILIZATION, THE TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED ONLY WITH THE APPROVAL OF THE ENVIRONMENTAL INSPECTOR.

PERMANENT STABILIZATION

PERMANENT STABILIZATION SHALL BE APPLIED TO ALL DISTURBED AREAS THAT ARE TO BE LEFT DORMANT FOR A YEAR OR MORE. ALL AREAS WITHIN THE LIMITS OF DISTURBANCE SHALL BE STABILIZED WITH PERMANENT SEEDING, LANDSCAPING OR PAVEMENT FOLLOWING THE FINAL GRADING (SEE PERMANENT SEEDING TABLE SHEET C6.0).

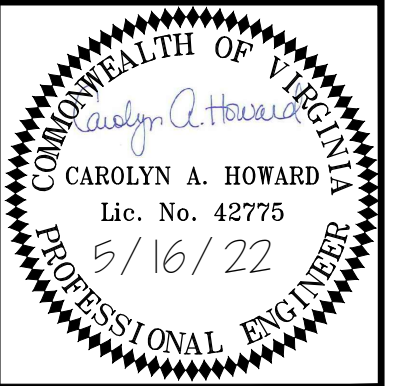
EROSION CONTROL SEQUENCE OF CONSTRUCTION

- INSTALL TEMPORARY STONE CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER EROSION CONTROL DEVICES LOCATED WITHIN THE LIMITS OF LAND DISTURBANCE. CONTACT FLUVANNA COUNTY EROSION CONTROL INSPECTOR FOR INSPECTION PRIOR TO COMMENCING ANY LAND DISTURBANCE. LAND DISTURBANCE MAY NOT OCCUR UNTIL THE INSTALLATION OF THE INITIAL EROSION & SEDIMENT CONTROL MEASURES HAS BEEN APPROVED BY THE ENVIRONMENTAL INSPECTOR.
- BEGIN SITE DEMOLITION ACTIVITIES INCLUDING TREE REMOVAL AND SELECTIVE SITE DEMOLITION ACTIVITIES PER COORDINATION WITH APPROPRIATE AUTHORITIES AND UTILITY OWNER'S.
- ADJUST ALL EROSION CONTROL DEVICES AS NECESSARY IN ORDER TO MAINTAIN PROPER FUNCTION AND EACH DEVICE SHALL BE MAINTAINED AS NECESSARY TO PROMOTE CORRECT OPERATION.
- CONSTRUCT PHASE 1 INFRASTRUCTURE (INCLUDING INLET PROTECTION) & UNDERGROUND UTILITIES.
- BEGIN PHASE 2 OF THE EROSION CONTROL PLAN AND COMPLETE CONSTRUCTION OF THE PAVEMENT AREAS.
- STABILIZE SITE DURING AND AT THE CONCLUSION OF CONSTRUCTION PER VESCH STDS.
- AFTER ALL UPSLOPE AREAS HAVE BEEN STABILIZED, AND ONLY WITH THE APPROVAL OF THE FLUVANNA COUNTY EROSION CONTROL INSPECTOR, REMOVE ALL REMAINING EROSION CONTROL DEVICES.

MAINTENANCE

PRIOR TO ANY LAND DISTURBING ACTIVITY, A LAND DISTURBANCE/VPDES PERMIT MUST BE SECURED. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED PER THE REQUIREMENTS OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMMP) CONSTRUCTION GENERAL PERMIT (CGP). DURING CONSTRUCTION, THE CONTRACTOR'S DESIGNATED RLD WILL BE RESPONSIBLE FOR INSPECTIONS AND REPAIR OF DAMAGED EROSION/SEDIMENT CONTROL MEASURES. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR:

- THE STONE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD OFF OF THE SITE. THE STONE MAY NEED TO BE WASHED AND REWORKED OR ADDITIONAL STONE ADDED TO ENSURE THE ENTRANCE IS PROPERLY FUNCTIONING.
- THE SILT FENCE, TREE PROTECTION AND INLET PROTECTION BARRIERS SHALL BE CHECKED FOR UNDERMINING AND DETERIORATION OF OR DAMAGE TO THE FABRIC. DAMAGES SHALL BE IMMEDIATELY REPAIRED. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES ONE HALF THE HEIGHT OF THE BARRIER.
 - LOW POINTS IN THE SILT FENCE SHALL BE CHECKED FOR DAMAGE CAUSED BY PONDING WATER. IF DAMAGE IS FOUND, ADDITIONAL ROWS OF SILT FENCE SHALL BE PLACED BEHIND AND PARALLEL TO THE PRIMARY ROW AT INCREMENTS OF ONE FOOT AS REQUIRED.
 - SILT FENCE 'DAMS' INSTALLED PERPENDICULAR TO THE PRIMARY RUN TO SLOW RUNOFF ALONG THE SILT FENCE SHALL BE CHECKED FOR SCOUR AROUND THE EDGE. IF SCOURING IS OBSERVED, ADDITIONAL SECTIONS ARE TO BE PLACED UPHILL IN SMALLER INCREMENTS AS NEEDED.
- THE STORM DRAIN INLET PROTECTION SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED ONCE IT HAS REACHED ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FOR THE BLOCKS, CLEANED AND/OR REPLACED.
- THE SEEDED AND MULCHED AREAS SHALL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEDED AS NEEDED. REFER TO ESC TECHNICAL BULLETIN #4. PROVIDE REMEDIAL STABILIZATION AND SEEDING FOR A PERIOD OF ONE YEAR AFTER CONSTRUCTION.



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EROSION AND SEDIMENT CONTROL NARRATIVE
FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

REVISIONS

DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	NONE
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C1.3

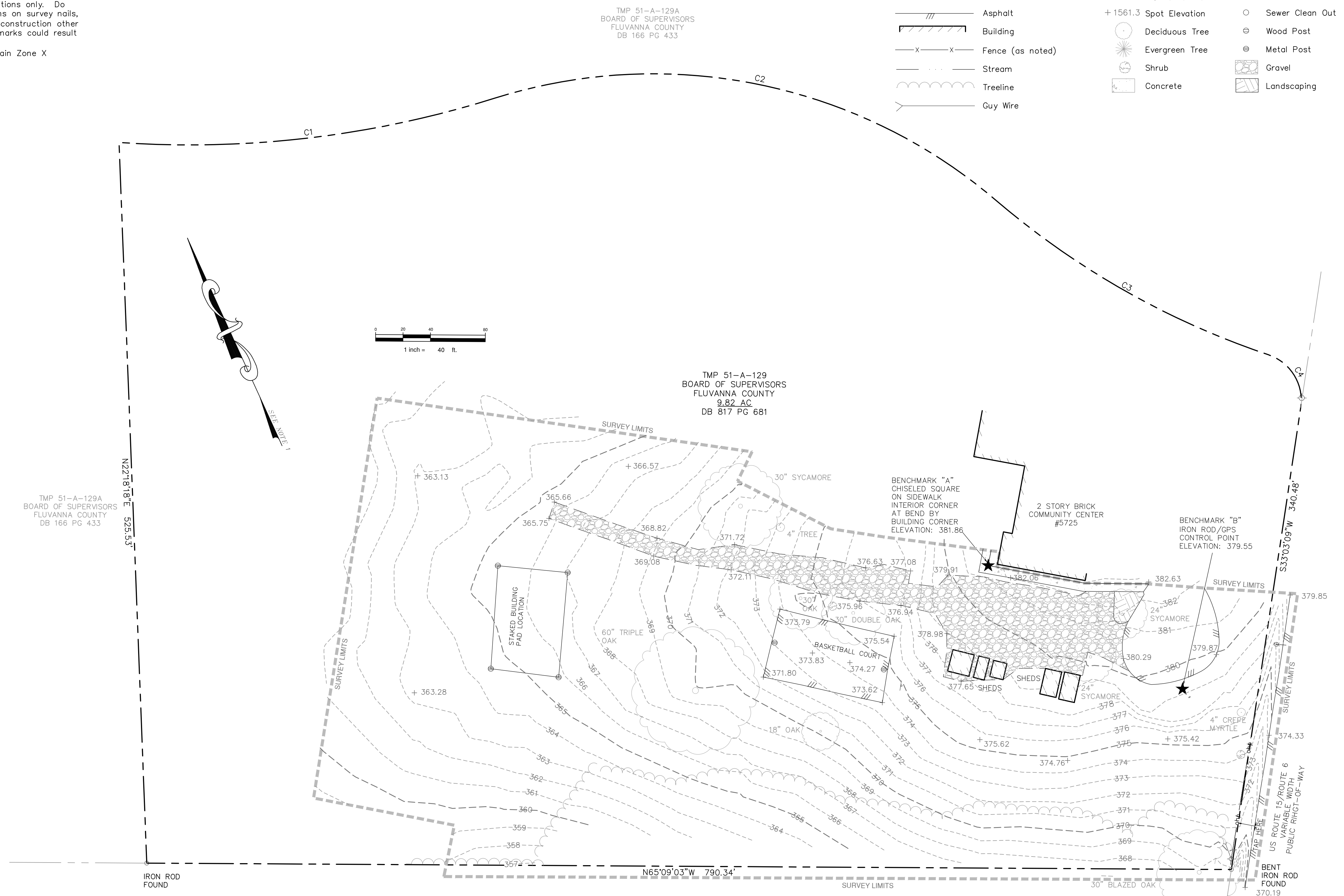
NOTES:

- 1.) Source of Meridian: Virginia State Plane GRID North NAD 83 South Zone based upon GPS Observation performed on February 28, 2019.
- 2.) Vertical datum: NAVD 88 based upon GPS Observation performed on February 28, 2019.
- 3.) This survey was prepared without the benefit of a title commitment or title report and all easements and encumbrances that might be disclosed in a title search may not be shown.
- 4.) Utilities shown are based upon:
 - ___SUE Quality Level D, ASCE 38-02 - compiled records only
 - ___SUE Quality Level C, ASCE 38-02 - visible evidence in conjunction with compiled records.
 - ___SUE Quality Level B, ASCE 38-02 - field designation of underground utilities performed by (DAA; Miss Utility, Ticket # _____; Other) and visible evidence in conjunction with compiled records.
 - ___SUE Quality Level A, ASCE 38-02 - test pits at locations shown hereon performed by (DAA; Other) in conjunction with field designation of underground utilities performed by (DAA; Miss Utility, Ticket # _____; Other), visible evidence and compiled records.
 - ___X No SUE was performed or requested for this survey. Utilities shown hereon are based on field observation only.
- 5.) This Topographic Survey of Fork Union Fire Training Building Site was completed under the direct and responsible charge of Cheryl Stockton from an actual Ground survey made under my supervision; that the imagery and/or original data was obtained on March 29, 2019; and that this plat and/or map meets minimum accuracy standards unless otherwise noted.
- 6.) Contour interval: 1'.
- 7.) This survey was prepared for the County of Fluvanna. Draper Aden Associates assumes no liability for reuse or modification of this document.
- 8.) No current field run boundary survey was performed. Property lines shown hereon are compiled from record information.
- 9.) Draper Aden Associates provides benchmarks for the construction of the improvements shown on these plans. All other existing elevations are for reference to existing conditions only. Do not use spot elevations, finish floor elevations, elevations on manholes, elevations on survey nails, survey hubs, control points (horizontal points provided) or any other points for construction other than the provided benchmarks. Failure to utilize and verify the provided benchmarks could result in damages and additional cost that are the contractor's responsibility.
- 10.) The subject property shown hereon appears to be situated in FEMA Floodplain Zone X (Unshaded) per FIRM 51065C0125C May 16, 2008.

CURVE TABLE					
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD LENGTH	CHORD BEARING
C1	741.20'	277.58'	21°27'27"	275.96'	S72°13'07"E
C2	384.26'	388.98'	58°00'00"	372.59'	S53°56'51"E
C3	597.96'	229.60'	22°00'00"	228.19'	S35°56'51"E
C4	35.00'	48.87'	80°00'00"	45.00'	S06°56'51"E

LEGEND

- Property Line
- - - - -1000- - - Contour
- g Gas Line
- ohp Overhead Power
- ss Sanitary Sewer and Manhole
- Storm Line and Manhole
- Storm Line and Inlet
- catv Underground Cable TV
- uge Underground Electric
- ugt Underground Telephone
- fo Underground Fiber Optic
- unk Unknown Utility
- w Waterline
- /// Asphalt
- Building
- x-x Fence (as noted)
- Stream
- Tree Line
- Guy Wire
- Rod Found
- Monument Found
- Telephone Pedestal
- Telephone Manhole
- Telephone Box
- Fire Hydrant
- Water Valve
- Water Meter
- Well
- Benchmark
- Bollard
- Sign (1-post)
- Sign (2-post)
- +1561.3 Spot Elevation
- Deciduous Tree
- Evergreen Tree
- Shrub
- Concrete
- Electric Box
- Guy Pole
- Electric Marker
- Electrical Manhole
- Utility Pole
- Electric Transformer
- Ground Light
- Light Pole
- Fiber Optic Pedestal
- Fiber Optic Handhole
- Gas Vent
- Gas Valve
- Gas Meter
- Sewer Clean Out
- Wood Post
- Metal Post
- Gravel
- Landscaping



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**TOPOGRAPHIC SURVEY
 FORK UNION FIRE TRAINING
 BUILDING SITE
 FLUVANNA COUNTY, VIRGINIA**

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SCALE: 1"=40'
DATE: MAY 16, 2022
PROJECT NUMBER: 18060133-010301
C2.0

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DB 166 PG 433
ZONING I-1

TMP 51-A-129
BOARD OF SUPERVISORS
FLUVANNA COUNTY
9.82 AC
DB 817 PG 681
ZONING I-1

N65°09'03"W 790.34'
TMP 51-A-130
ROBERT H. SHELTON
WB 56 PG 888
ZONING A-1

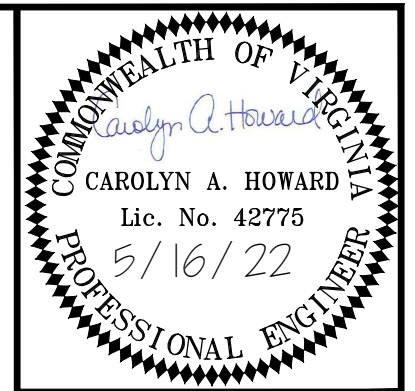
DEMOLITION LEGEND

TO BE REMOVED

EROSION SEDIMENT CONTROL LEGEND

No.	TITLE	KEY	SYMBOL
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
3.05	SUPER SILT FENCE	SSF	
3.09	DIVERSION DIKE	DD	
3.18	OUTLET PROTECTION	OP	
3.31	TEMPORARY SEEDING	TS	
3.35-A	MULCHING	MU	
3.38	TREE PROTECTION	TP	
3.39	DUST CONTROL	DC	

LOD LIMITS OF DISTURBANCE 0.97 AC.
DRAINAGE AREA



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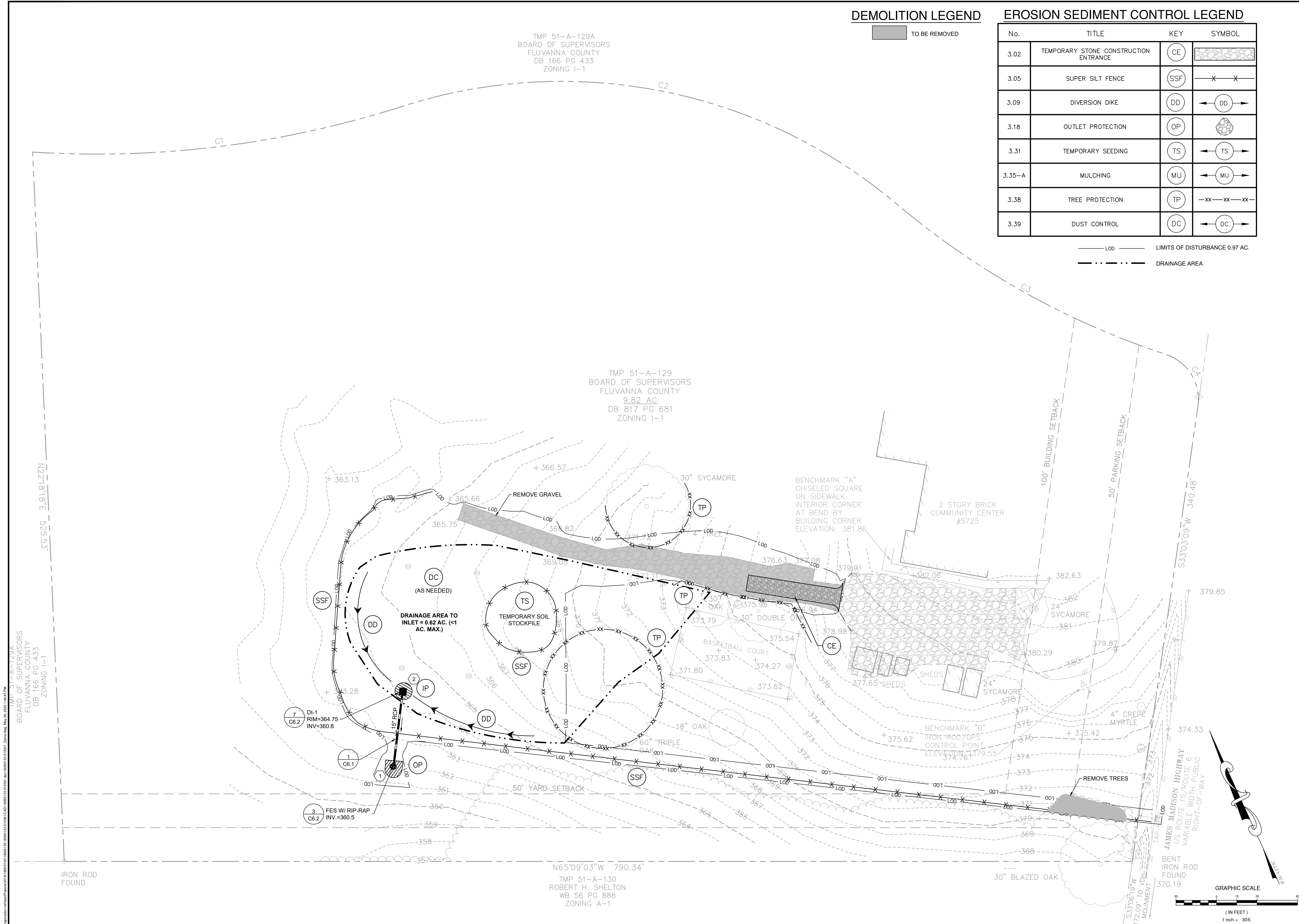
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Blacksburg, VA
Hampton Roads, VA
Virginia Beach, VA

DEMOLITION AND PHASE 1 E&S PLAN
FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

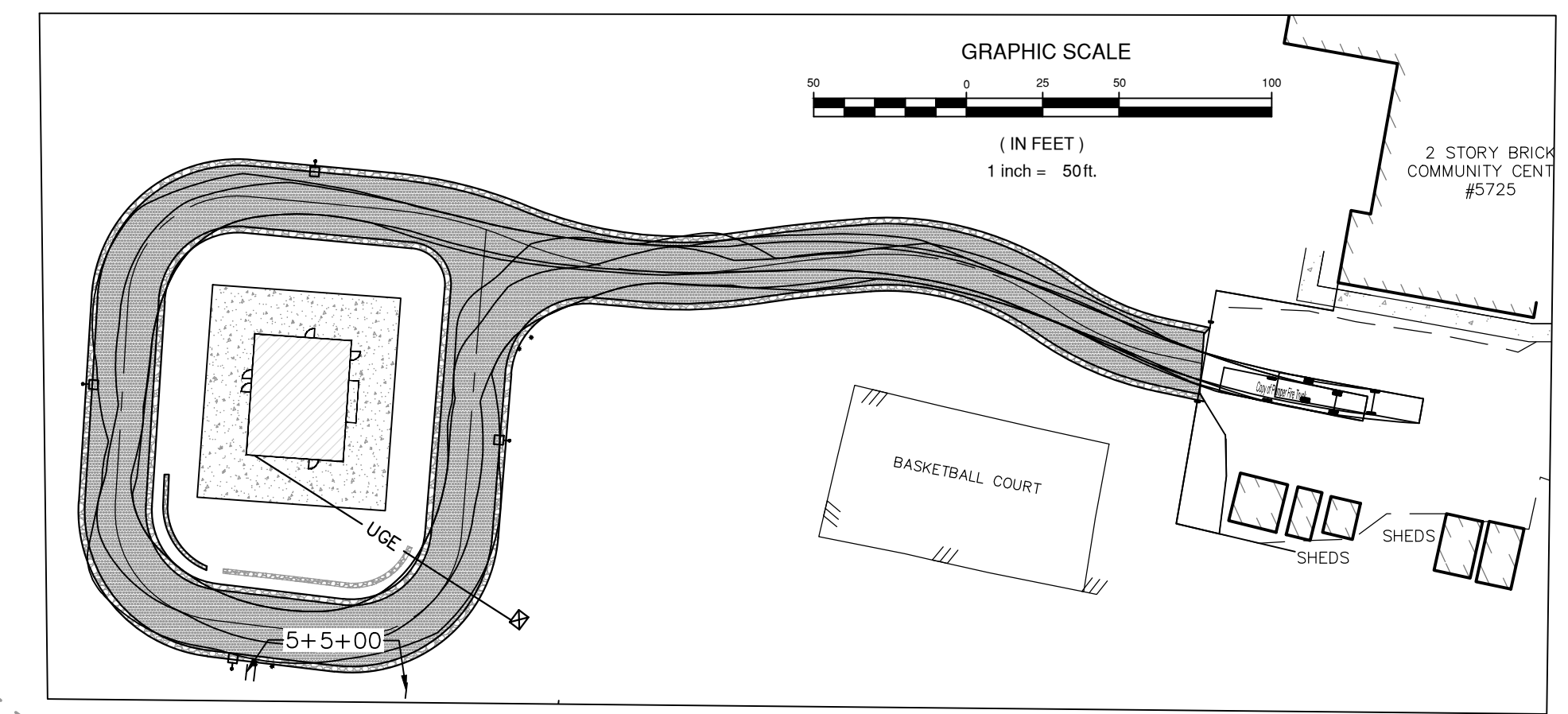
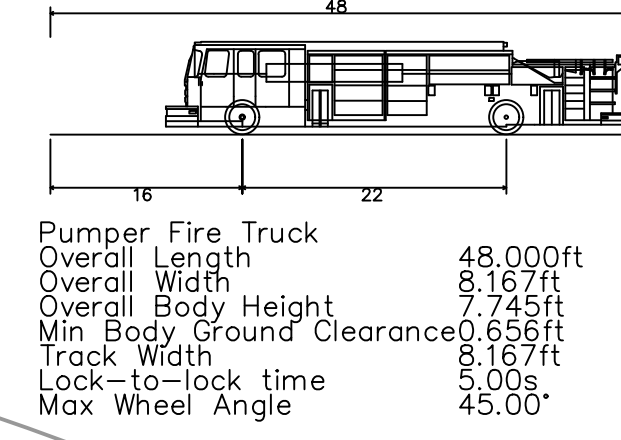
REVISIONS

DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	1"=30'
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C3.0

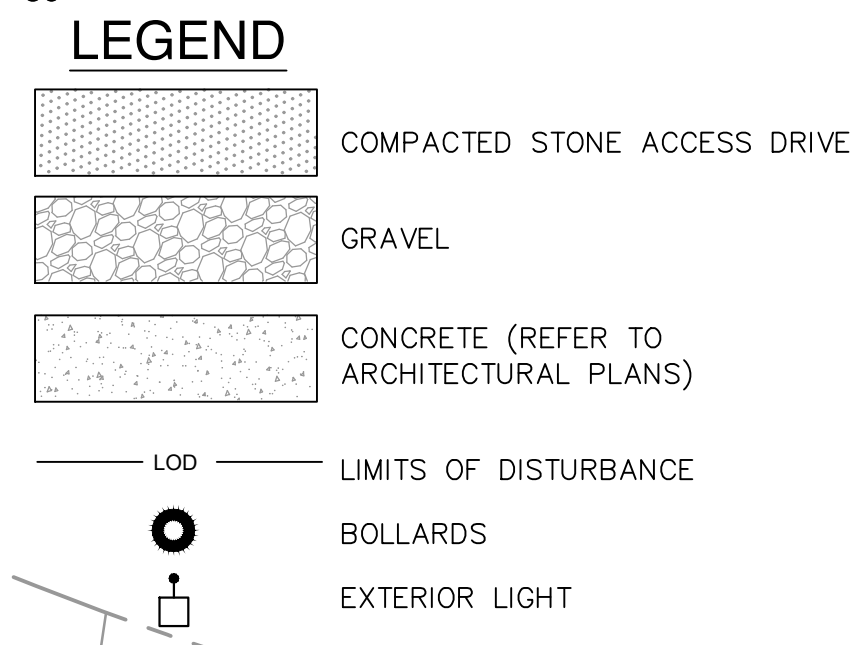


TMP 51-A-129A
BOARD OF SUPERVISORS
FLUVANNA COUNTY
DB 166 PG 433
ZONING I-1

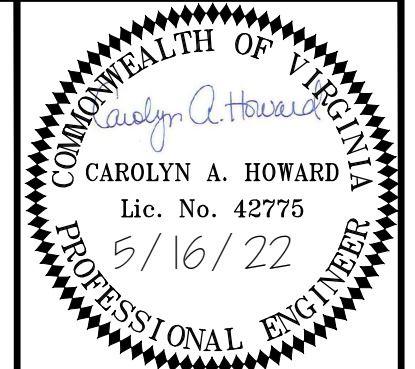
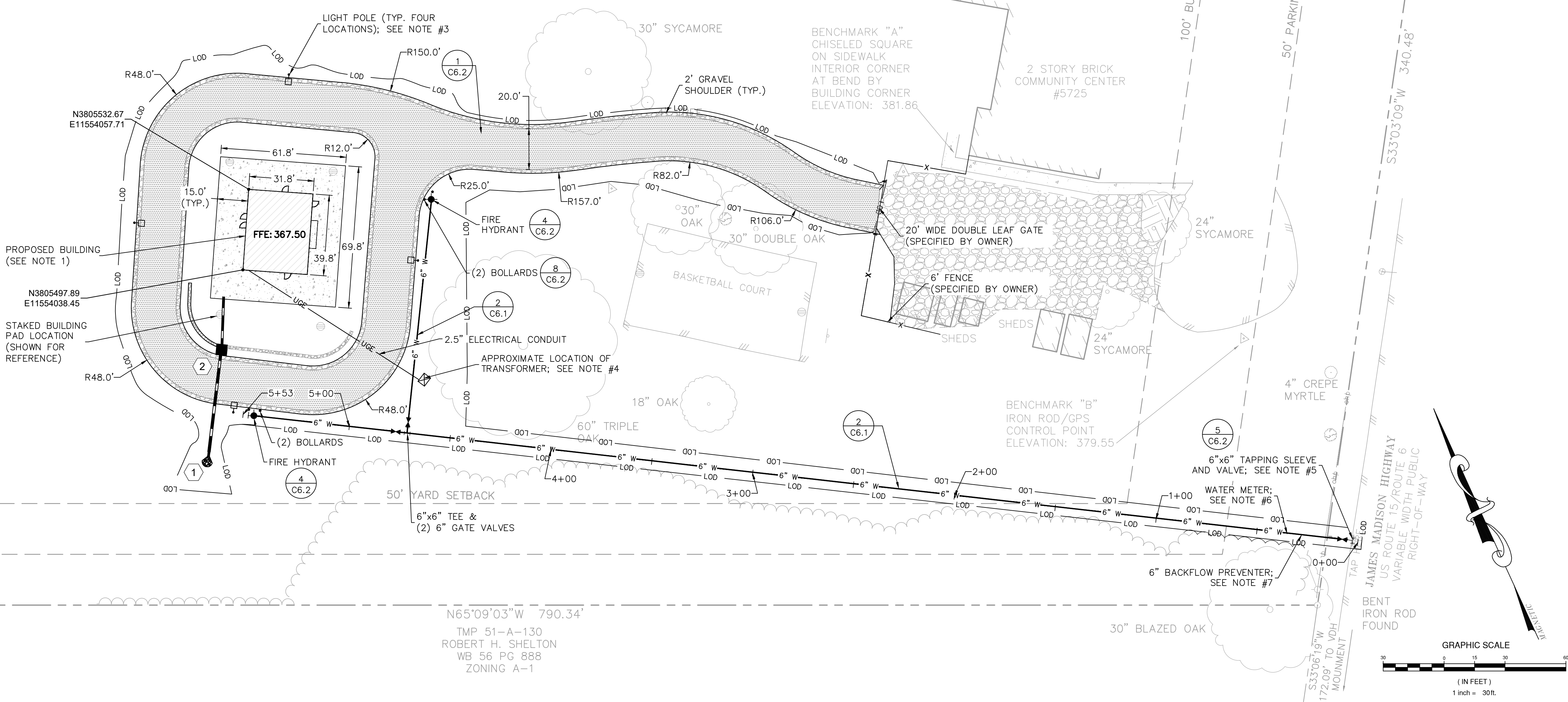


FIRE TRUCK TURNING MOVEMENT EXHIBIT
SCALE: 1"=50'

- NOTES:
- REFER TO ARCHITECTURAL PLANS FOR BUILDING AND CONCRETE APRON DETAILS.
 - VDOT PERMITS SHALL BE ACQUIRED BY THE CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE UNDERGROUND CONDUIT FROM THE EQUIPMENT ROOM TO THE FOUR LIGHT POLES SHOWN ON THE CIVIL DRAWINGS. REFER TO ELECTRICAL PLANS FOR ADDITIONAL DETAILS ON CONDUITS, WIRING, FIXTURES, POLES, AND FOUNDATIONS.
 - COORDINATE THE TRANSFORMER REQUIREMENTS WITH THE POWER COMPANY.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH THE TAPPING SLEEVE AND VALVE AND THE REST OF THE WATER SYSTEM INSTALLATION UNLESS OTHERWISE INDICATED. THIS INCLUDES, BUT IS NOT LIMITED TO LABOR, MATERIALS, PAVEMENT REPAIR, TRAFFIC CONTROL, AND PERMITTING.
 - THE WATER METER WILL BE PROVIDED AND PAID FOR BY THE COUNTY, INCLUDING ANY ASSOCIATED METER FEES. CONTRACTOR SHALL SET THE METER BOX AND METER HARNESS.
 - CONTRACTOR SHALL PROVIDE AND INSTALL A 6-INCH BACKFLOW PREVENTER ON THE WATER LINE IN A CONCRETE VAULT. DEVICE SHALL CONFORM WITH ALL COUNTY AND STATE REGULATIONS. DETAILS SHALL BE COORDINATED WITH FUSD PRIOR TO OBTAINING THE BUILDING PERMIT.



TMP 51-A-129
BOARD OF SUPERVISORS
FLUVANNA COUNTY
9.82 AC
DB 817 PG 681
ZONING I-1



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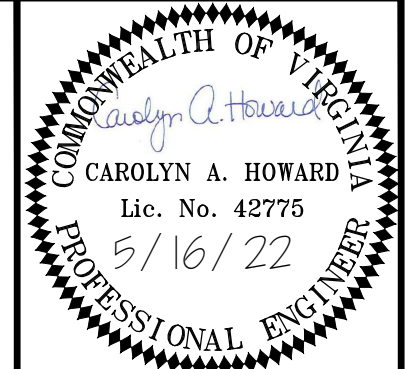
Richmond, VA
Fayetteville, NC
Fayetteville, NC
Northern Virginia
Virginia Beach, VA
Hampton Roads, VA



SITE LAYOUT AND UTILITY PLAN
FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

REVISIONS	
DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	AS SHOWN
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301
C4.0	

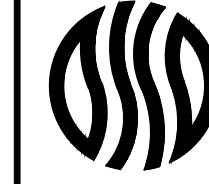
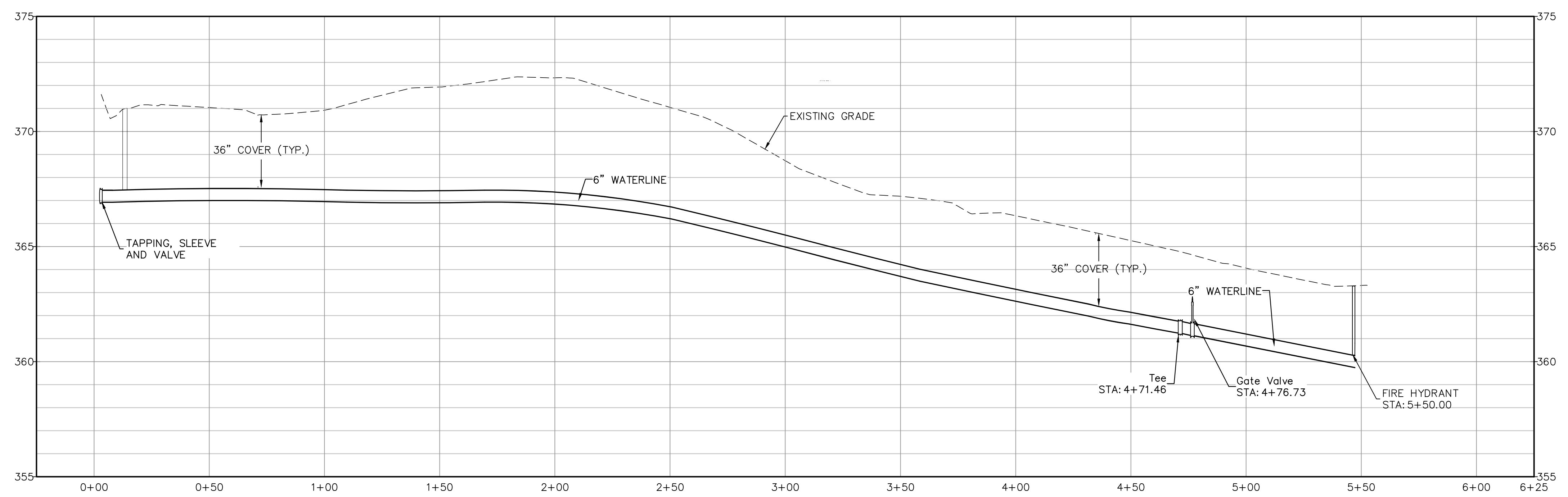
TMP 51-A-129A
BOARD OF SUPERVISORS
FLUVANNA COUNTY
DB 166 PG 433
ZONING I-1
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 2/22/21 8:18 AM 525.53
 2/22/21 8:18 AM 525.53



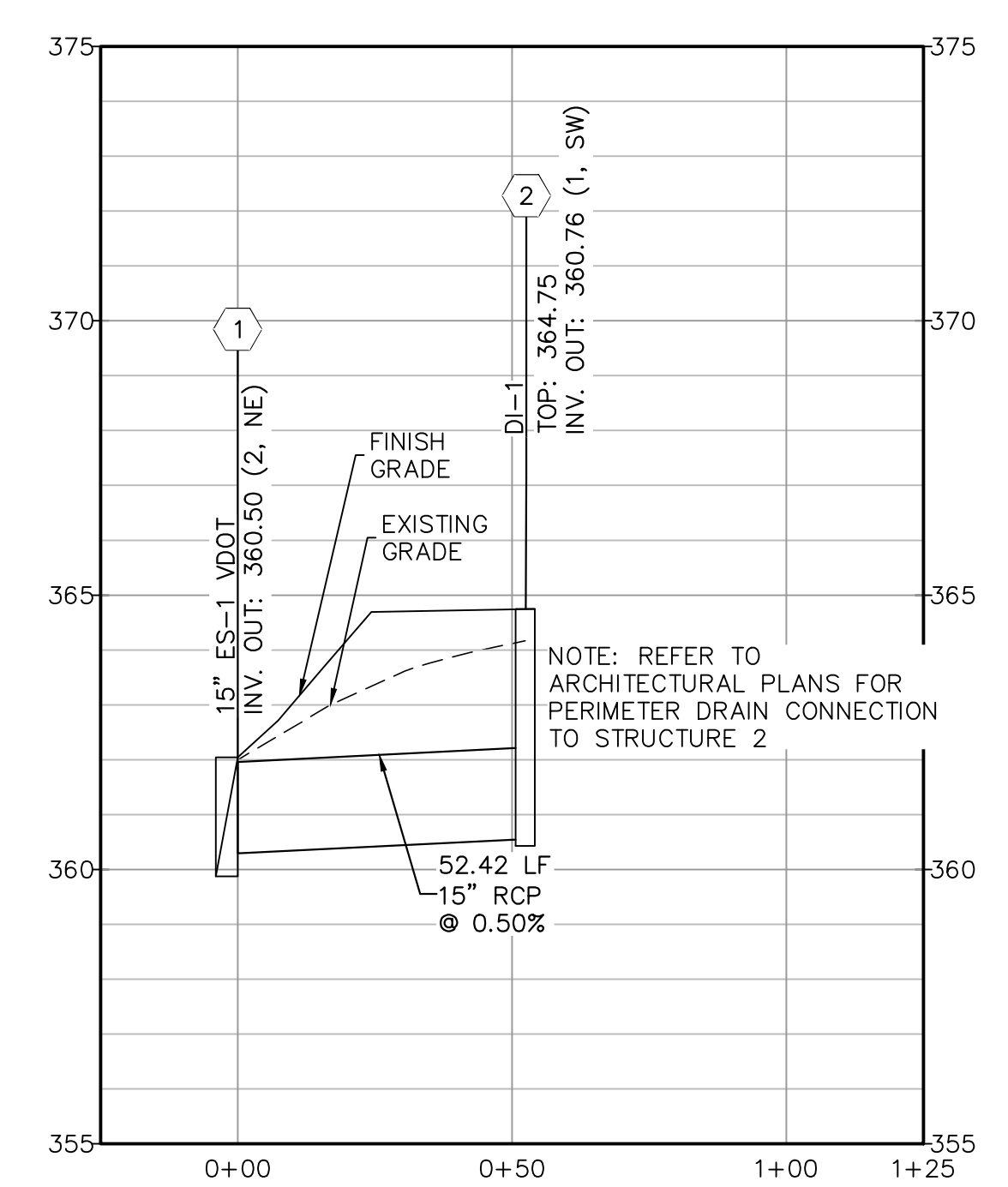
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 • Fayetteville, NC
 • Northern Virginia
 • Virginia Beach, VA
 • Richmond, VA
 • Blacksburg, VA
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WATERLINE PROFILE – Scale: H: 1"=30', V: 3'

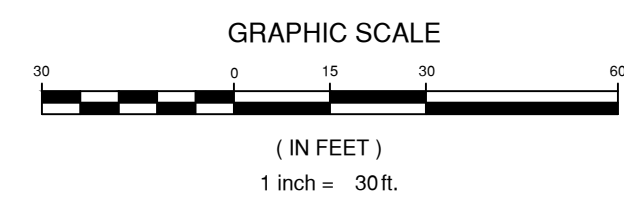


STORM PROFILE – Scale: H: 1"=30', V: 3'

WATER AND STORM PROFILES
 FORK UNION FIRE TRAINING
 BUILDING SITE
 FLUVANNA COUNTY, VIRGINIA

REVISIONS

DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	1"=30'
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301



C4.1

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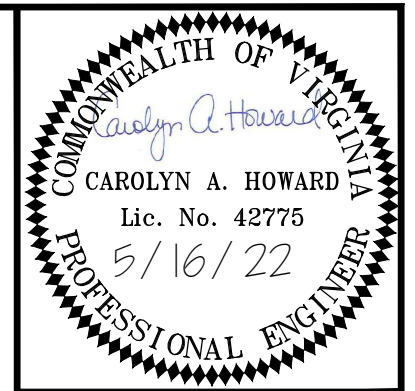
TMP 51-A-129A
BOARD OF SUPERVISORS
FLUVANNA COUNTY
DB 166 PG 433
ZONING I-1

TMP 51-A-129
BOARD OF SUPERVISORS
FLUVANNA COUNTY
9.82 AC
DB 817 PG 681
ZONING I-1

EROSION SEDIMENT CONTROL LEGEND

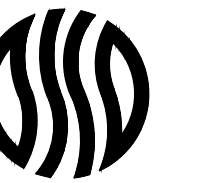
No.	TITLE	KEY	SYMBOL
3.18	OUTLET PROTECTION	OP	OP
3.30	TOPSOILING	TO	TO
3.32	PERMANENT SEEDING	PS	PS
3.35	MULCHING	MU	MU
3.39	DUST CONTROL	DC	DC

LOD LIMITS OF DISTURBANCE 0.98AC.



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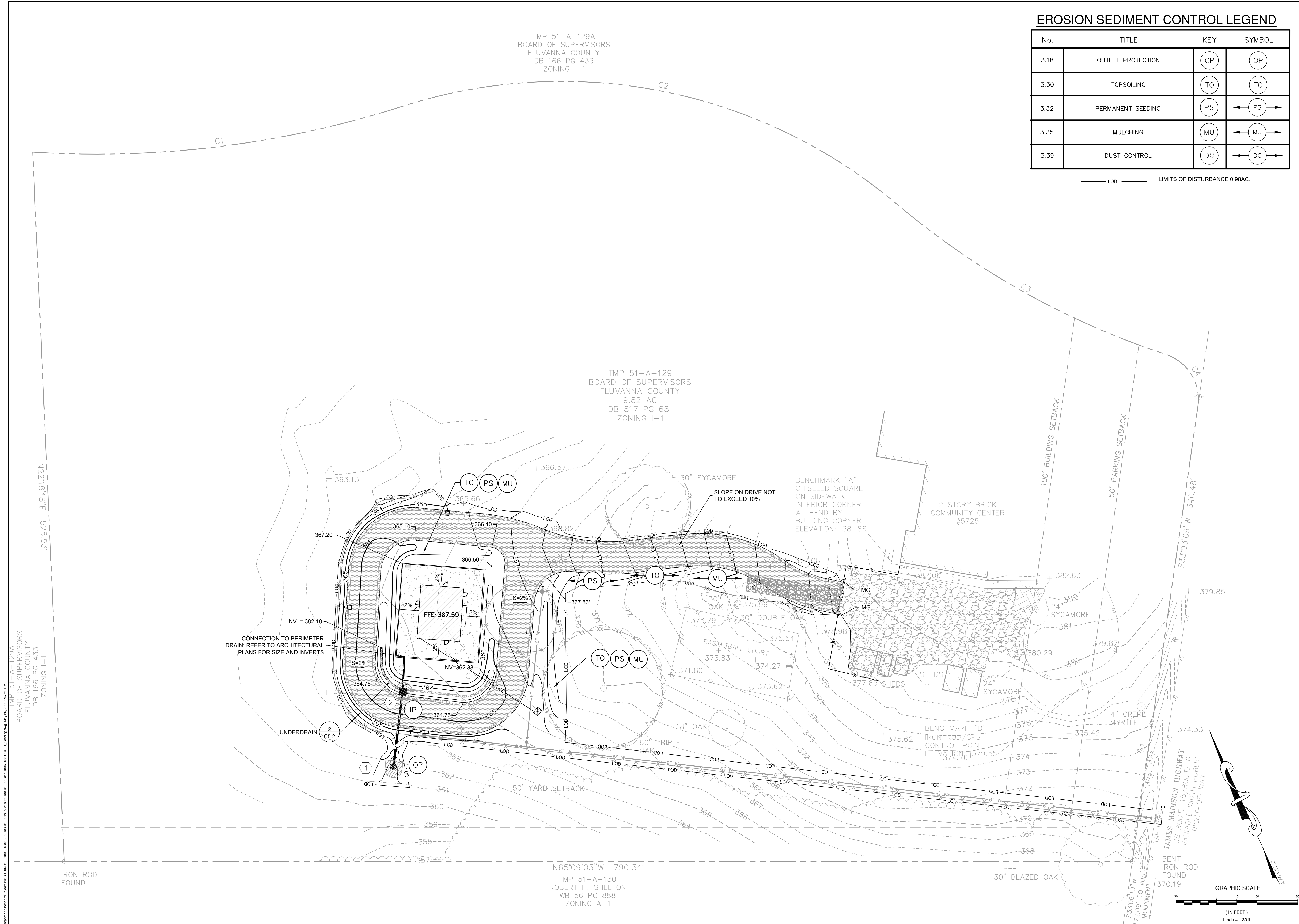


**GRADING AND PHASE 2 E&S PLAN
FORK UNION FIRE TRAINING
BUILDING SITE**
FLUVANNA COUNTY, VIRGINIA

REVISIONS

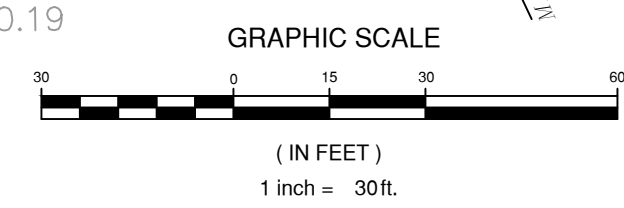
DESIGNED BY: DAA
DRAWN BY: MJR
CHECKED BY: CAH
SCALE: 1"=30'
DATE: MAY 16, 2022
PROJECT NUMBER: 18060133-010301

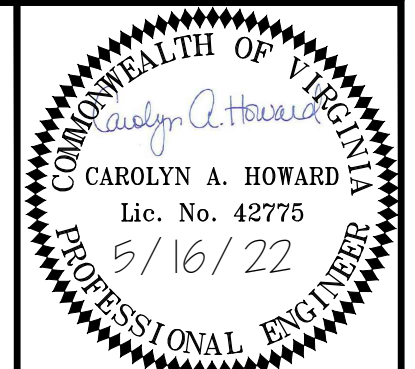
C5.0



TMP 51-A-129A
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FLUVANNA COUNTY
DB 166 PG 433
ZONING I-1

N65°09'03"W 790.34'
TMP 51-A-130
ROBERT H. SHELTON
WB 56 PG 888
ZONING A-1





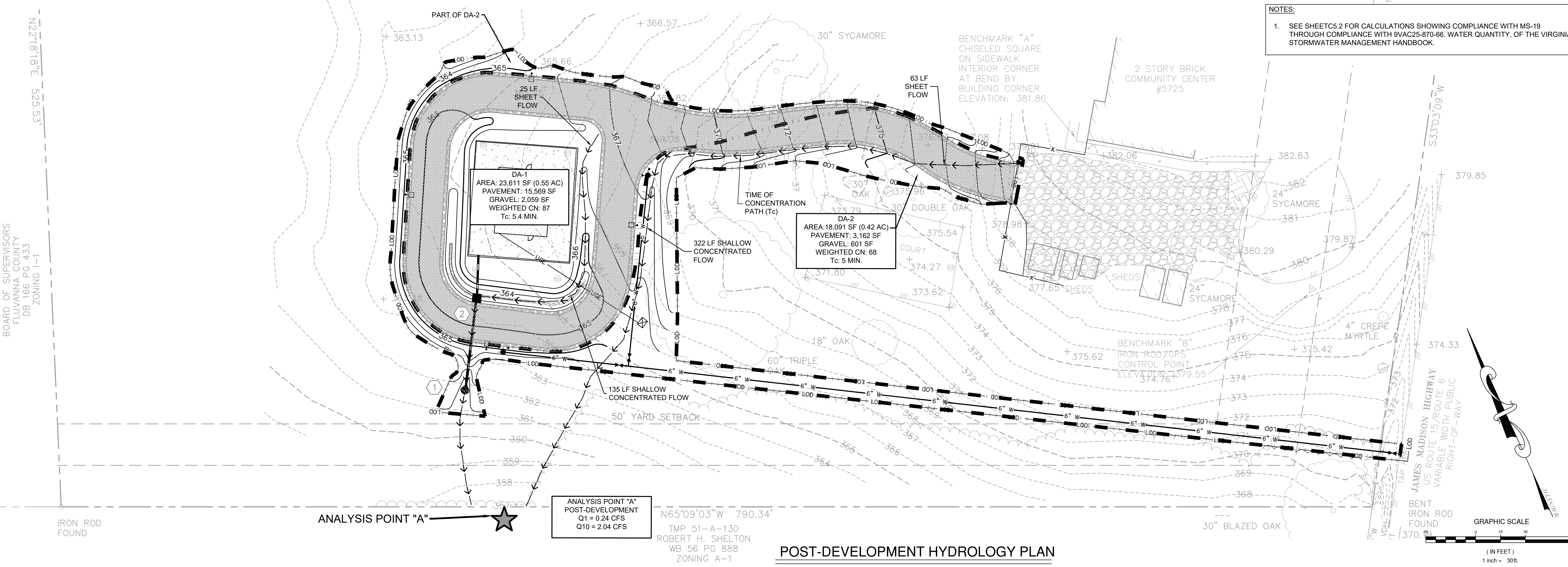
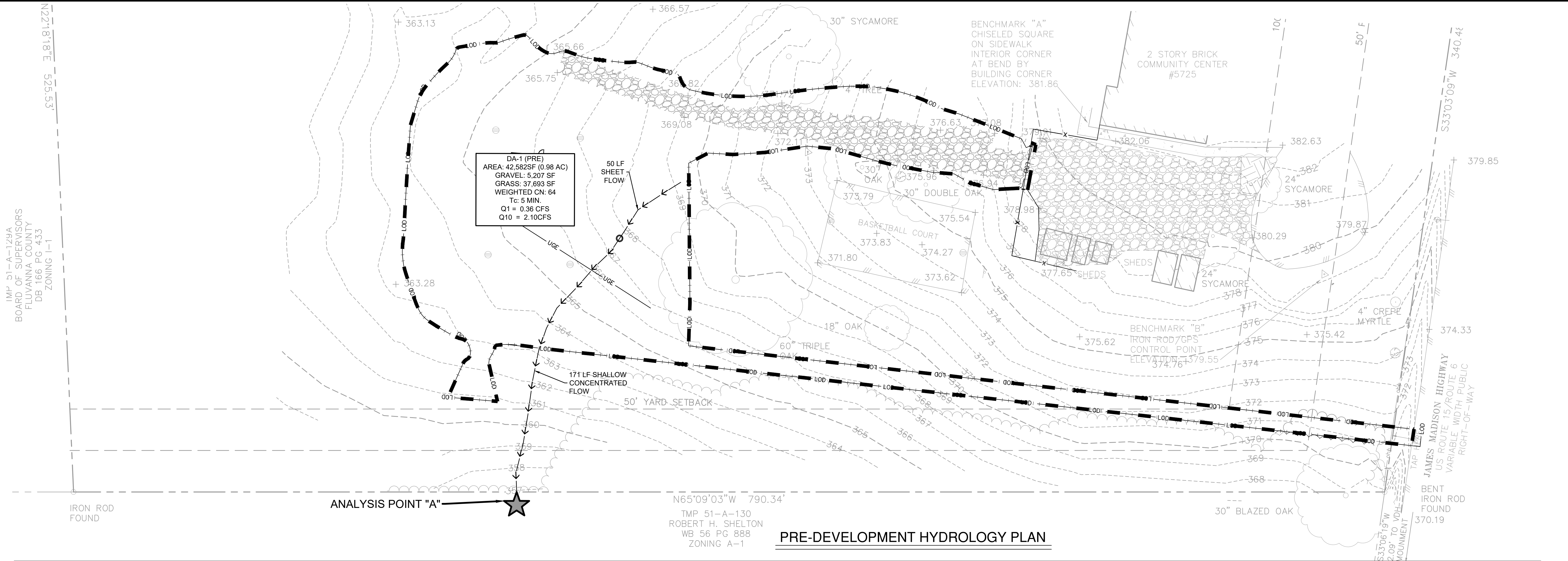
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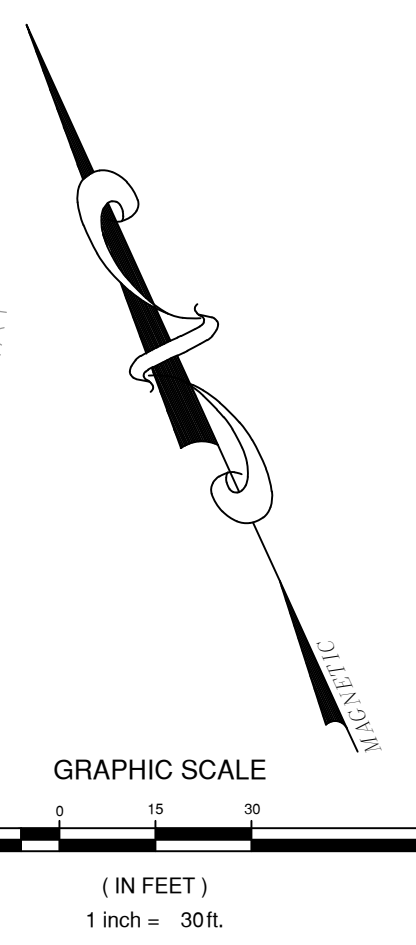
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 Virginia Beach, VA

PRE- & POST-DEVELOPMENT HYDROLOGY PLAN
FORK UNION FIRE TRAINING
BUILDING SITE
 FLUVANNA COUNTY, VIRGINIA

REVISIONS	
DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	1" = 30'
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301
C5.1	



NOTES:
 1. SEE SHEETS 5.2 FOR CALCULATIONS SHOWING COMPLIANCE WITH MS-19 THROUGH COMPLIANCE WITH 9VAC25-870-66. WATER QUANTITY, OF THE VIRGINIA STORMWATER MANAGEMENT HANDBOOK.



IMP 51-A-129A
 BOARD OF SUPERVISORS
 FLUVANNA COUNTY
 DB 166 PG 433
 ZONING I-1
 N22°18'18"E 525.53'
 N22°18'18"E 525.53'
 IMP 51-A-129A
 BOARD OF SUPERVISORS
 FLUVANNA COUNTY
 DB 166 PG 433
 ZONING I-1
 N22°18'18"E 525.53'

TR-55 CALCULATIONS SUMMARY FOR 1-YR & 10-YR STORM EVENTS
FLOOD PROTECTION 9VAC25-870-66(C)(2)(B))

Subsection: Master Network Summary

Catchments Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
DA-PRE	1-Yr Storm	1	0.026	12.000	0.36
DA-PRE	10-Yr Storm	10	0.119	11.950	2.10
DA-1	1-Yr Storm	1	0.065	11.950	1.17
DA-1	10-Yr Storm	10	0.155	11.900	2.72
DA-2	1-Yr Storm	1	0.015	12.000	0.24
DA-2	10-Yr Storm	10	0.060	11.950	1.08

Node Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)
O-A (POST)	1-Yr Storm	1	0.028	12.000	0.24
O-A (POST)	10-Yr Storm	10	0.162	12.000	2.05
O-A (PRE)	1-Yr Storm	1	0.026	12.000	0.36
O-A (PRE)	10-Yr Storm	10	0.119	11.950	2.10

Pond Summary

Label	Scenario	Return Event (years)	Hydrograph Volume (ac-ft)	Time to Peak (hours)	Peak Flow (ft ³ /s)	Maximum Water Surface Elevation (ft)	Maximum Pond Storage (ac-ft)
PO-1 (IN)	1-Yr Storm	1	0.065	11.950	1.17	(N/A)	(N/A)
PO-1 (OUT)	1-Yr Storm	1	0.013	13.950	0.04	364.76	0.044
PO-1 (IN)	10-Yr Storm	10	0.155	11.900	2.72	(N/A)	(N/A)
PO-1 (OUT)	10-Yr Storm	10	0.101	12.100	1.20	365.01	0.070

FC Fire Training-minor update.ppc
3/2/2021

Bentley Systems, Inc. Haestad Methods Solution Center
27 Siemon Company Drive Suite 200 W
Watertown, CT 06795 USA +1-203-755-1666

PondPack CONNECT Edition
(10/02/2018)
Page 1 of 1

THE POST-DEVELOPMENT FLOW OF 2.05 CFS IS LESS THAN THE PRE-DEVELOPMENT FLOW OF 2.10 CFS.

ENERGY BALANCE EQUATION (CHANNEL PROTECTION 9VAC25-870-66(B)(3))

0.98 Ac. Energy Balance Site Area
0.9 IF Improvement Factor (0.8 for sites greater than 1 acre & 0.9 for sites less than or equal to 1 acres)

OUTFALL	ENERGY BALANCE COMPLIANCE TABLE								
	1 - YEAR STORM EVENT				FORESTED CONDITION				
	VOLUME (AC-FT)		PEAK (CFS)		Q ALLOW (CFS)	VOL (AC-FT)	PEAK (CFS)	Q ALLOW (CFS)	COMPLIANCE?
A	0.026	0.028	0.36	0.24	0.30	0.009	0.02	0.01	

NOTE: UNDER NO CONDITION SHALL Q DEVELOPED BE GREATER THAN Q PRE-DEVELOPED NOR SHALL Q DEVELOPED BE REQUIRED TO BE LESS THAN THAT CALCULATED AS Q ALLOW IN THE FORESTED CONDITION SECTION ABOVE.

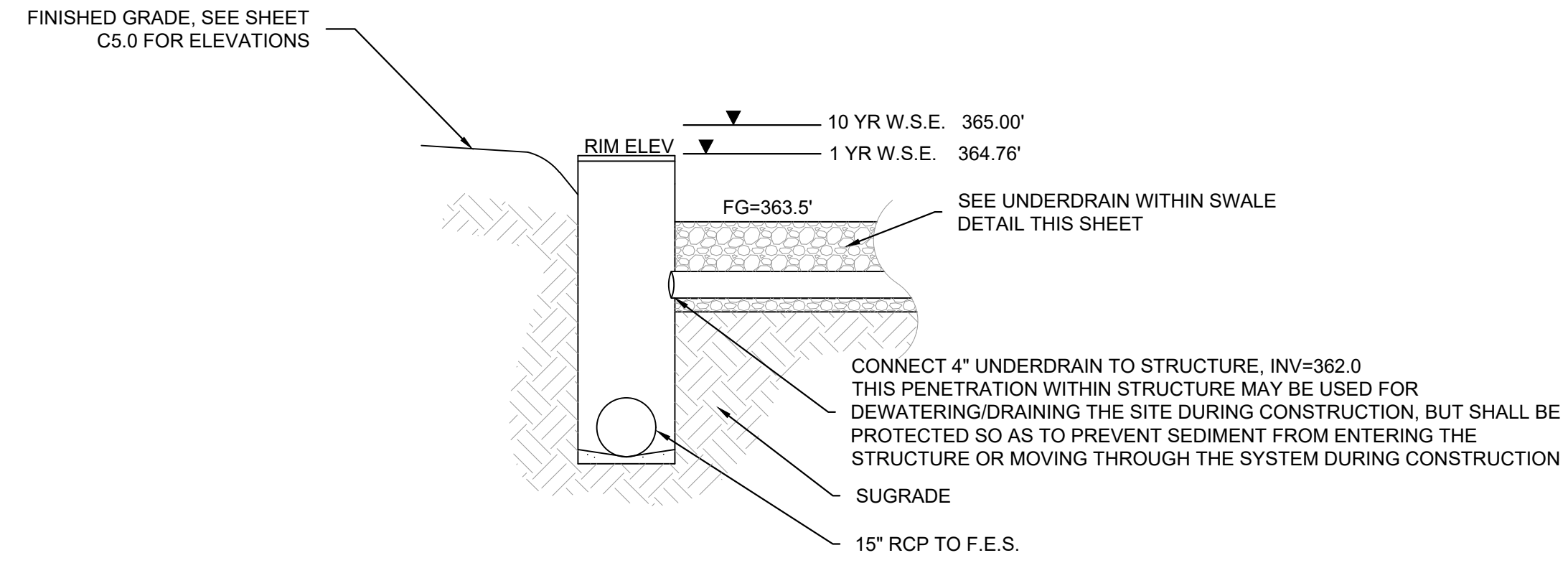
THE POST DEVELOPMENT FLOW OF 0.24 CFS IS LESS THAN THE ALLOWABLE FLOW OF 0.30 CFS.

10-YR HYDRAULIC PIPE CALCULATION (MANNING'S EQUATION)

Set units: m mm ft in

Parameter	Value	Units
Pipe diameter, d ₀	15	in
Manning roughness, n ?	.013	
Pressure slope (possibly ? equal to pipe slope), S ₀	.5	% rise/run
Percent of (or ratio to) full depth (100% or 1 if flowing full)	47	%

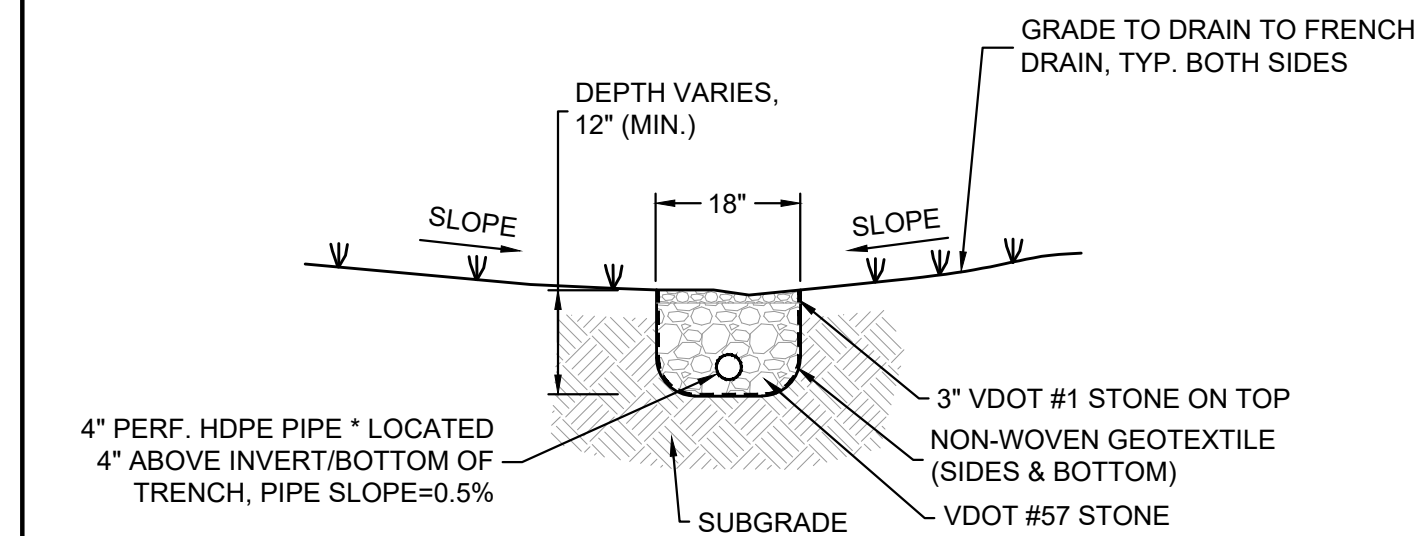
Results	Value	Units
Flow, Q	2.0532	cfs
Velocity, v	3.6229	ft/sec
Velocity head, h _v	2.4479	in
Flow area	0.5668	ft ²
Wetted perimeter	1.8884	ft
Hydraulic radius	0.3001	ft
Top width, T	1.2477	ft
Froude number, F	0.95	
Shear stress (tractive force), tau	4.4850	N/m ²



1 SECTION TAKEN AT STRUCTURE #1
C5.2 NOT TO SCALE

STABILIZATION & MAINTENANCE NOTES:

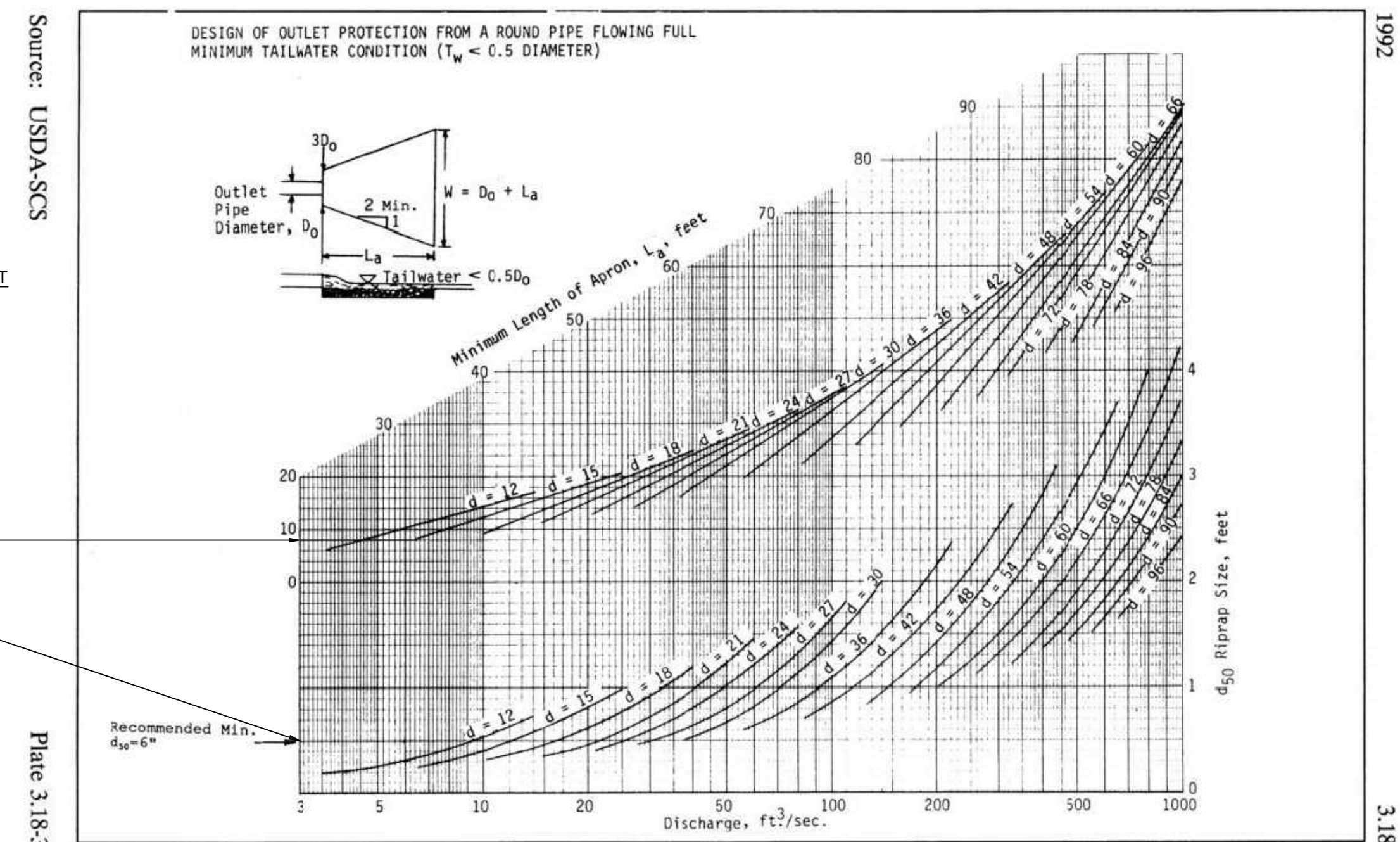
- TREAT ALL DISTURBED AREAS WITH TOPSOILING, PERMANENT SEEDING & MULCHING.
- MAINTAIN DURING CONSTRUCTION PER VESCH STD. & SPEC 3.28.



2 UNDERDRAIN WITHIN SWALE TO CONNECT TO DI-1
C5.0/C5.2 NOT TO SCALE

*THE PERFORATED PIPE SHALL BE CORRUGATED PE DRAINAGE PIPE AND FITTINGS NPS 3 TO NPS 10; AASHTO M 252M, TYPE S, WITH SMOOTH WATERWAY FOR COUPLING JOINTS.

OUTLET PROTECTION SIZING CALCULATION



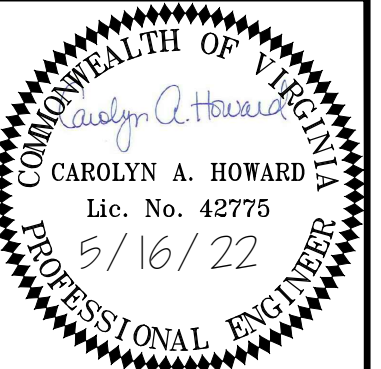
OUTLET PROTECTION SIZING CHART
PIPE 1-2 (15\"/>

D₀ = 1.25'
3D₀ = 3.75'
L_a = 8'
W = D₀ + L_a = 9.25'

MINIMUM APRON SIZE
L_a=8'

MINIMUM d₅₀=6"

Plate 3.18-3



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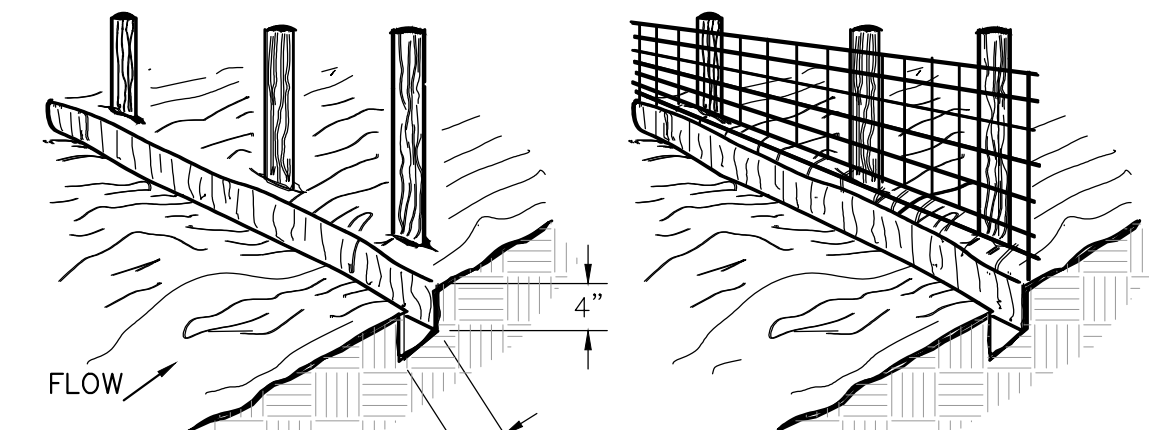


STORMWATER MANAGEMENT CALCS & DETAILS
FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

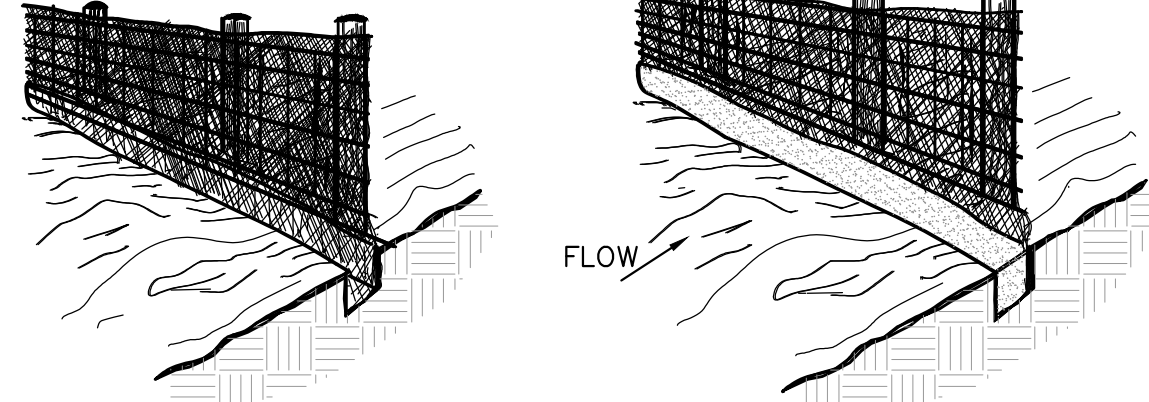
REVISIONS	
DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	1" = 30'
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C5.2

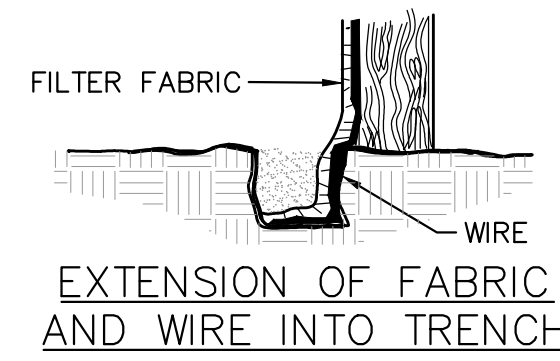
1. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.
2. STAPLE WIRE FENCING TO THE POSTS.



3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.
4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

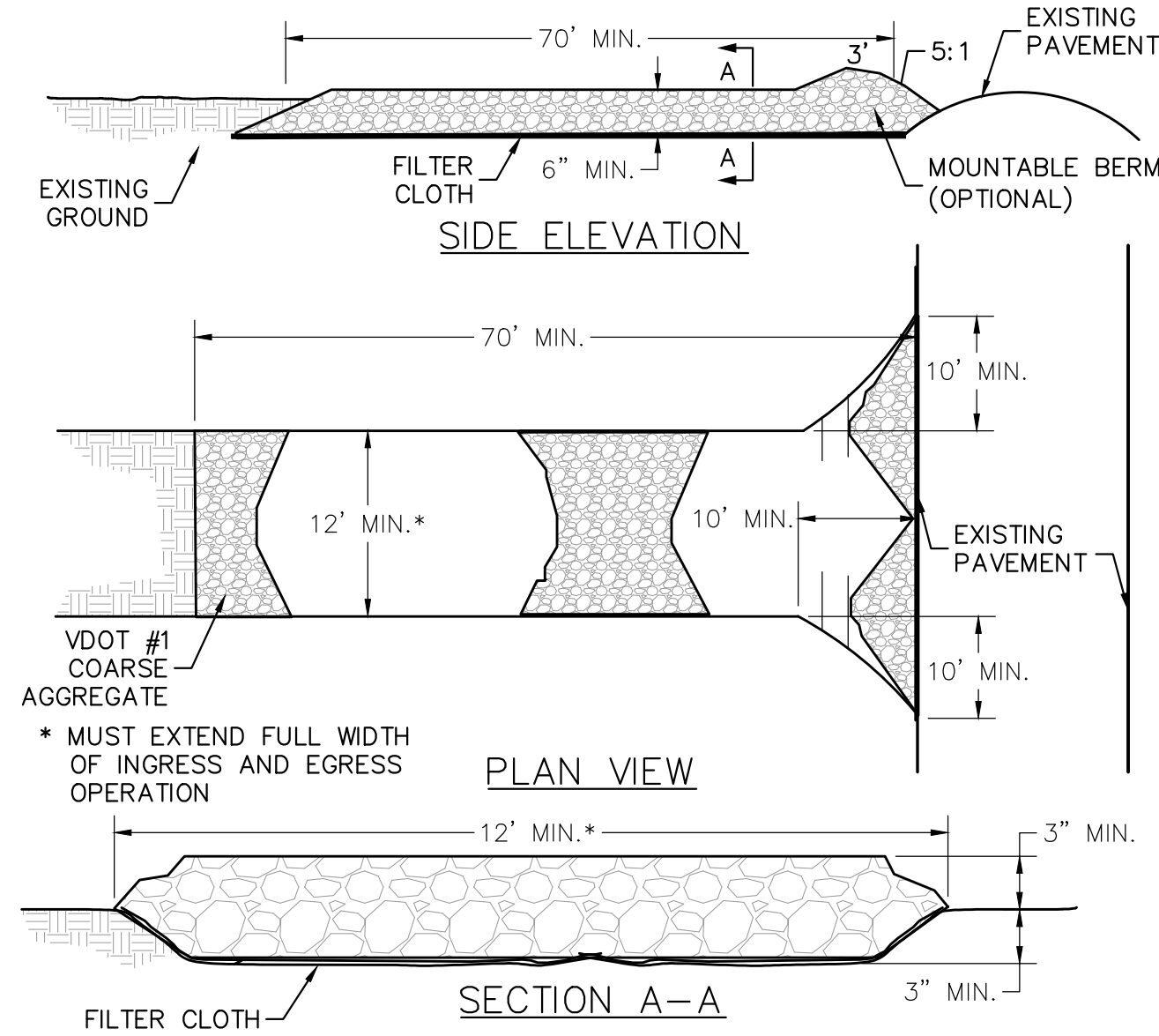


CONSTRUCTION OF A SILT FENCE (WITH WIRE SUPPORT)

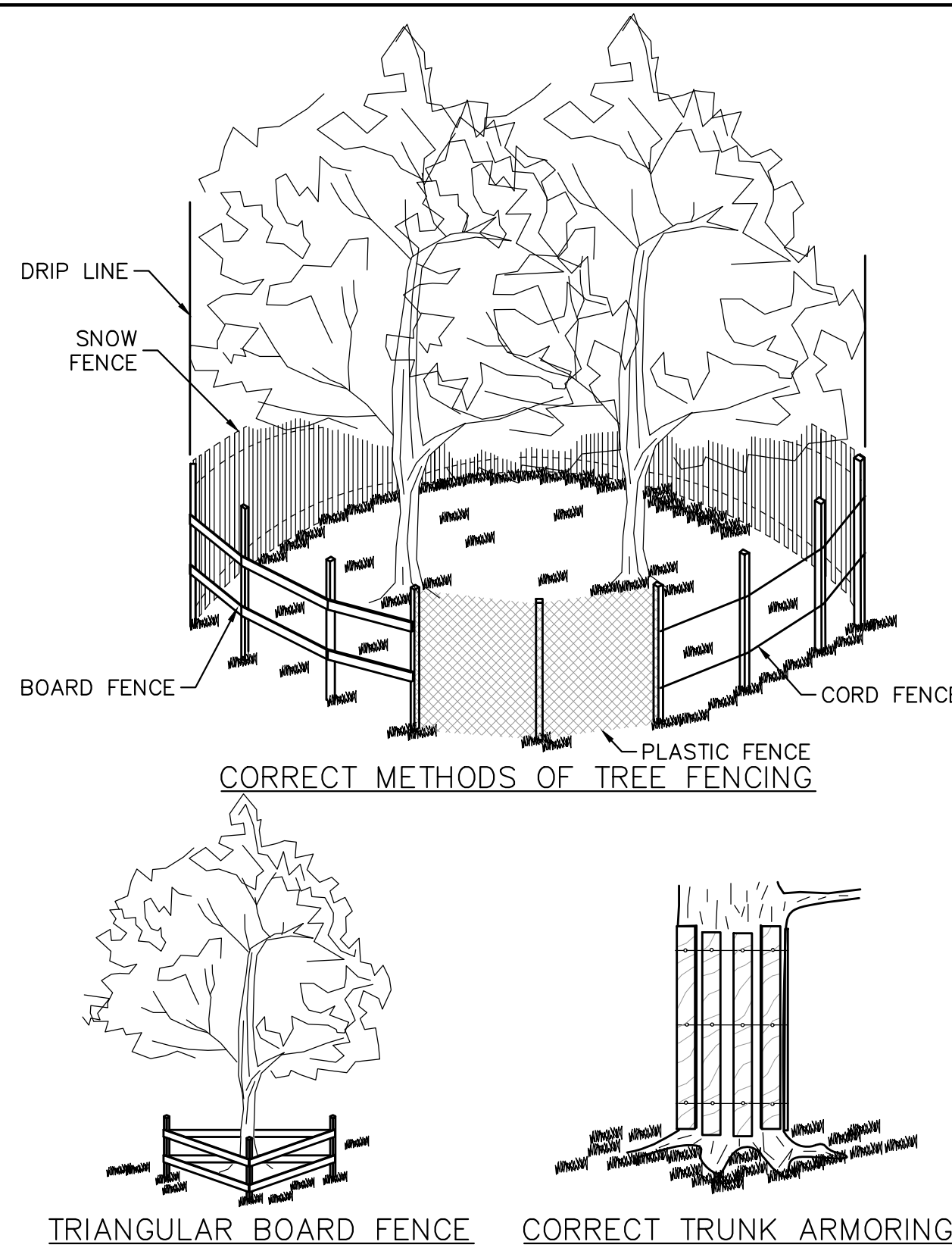


SSF SILT FENCE INSTALLATION DETAILS WITH WIRE BACKING NOT TO SCALE

CE



CONSTRUCTION ENTRANCE WITHOUT OPTIONAL WASHRACK NOT TO SCALE



FD TREE PROTECTION - FENCING AND ARMORING NOT TO SCALE

TEMPORARY SEEDING TS

TABLE 3.31-B ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS "QUICK REFERENCE FOR ALL REGIONS"

PLANTING DATES	SPECIES	RATE (LBS./ACRE)
SEPT. 1-FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLOSUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50-100
FEB. 16-APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLOSUM)	60-100
MAY 1-AUG. 31	GERMAN MILLET (SETARIA ITALICA)	50-100

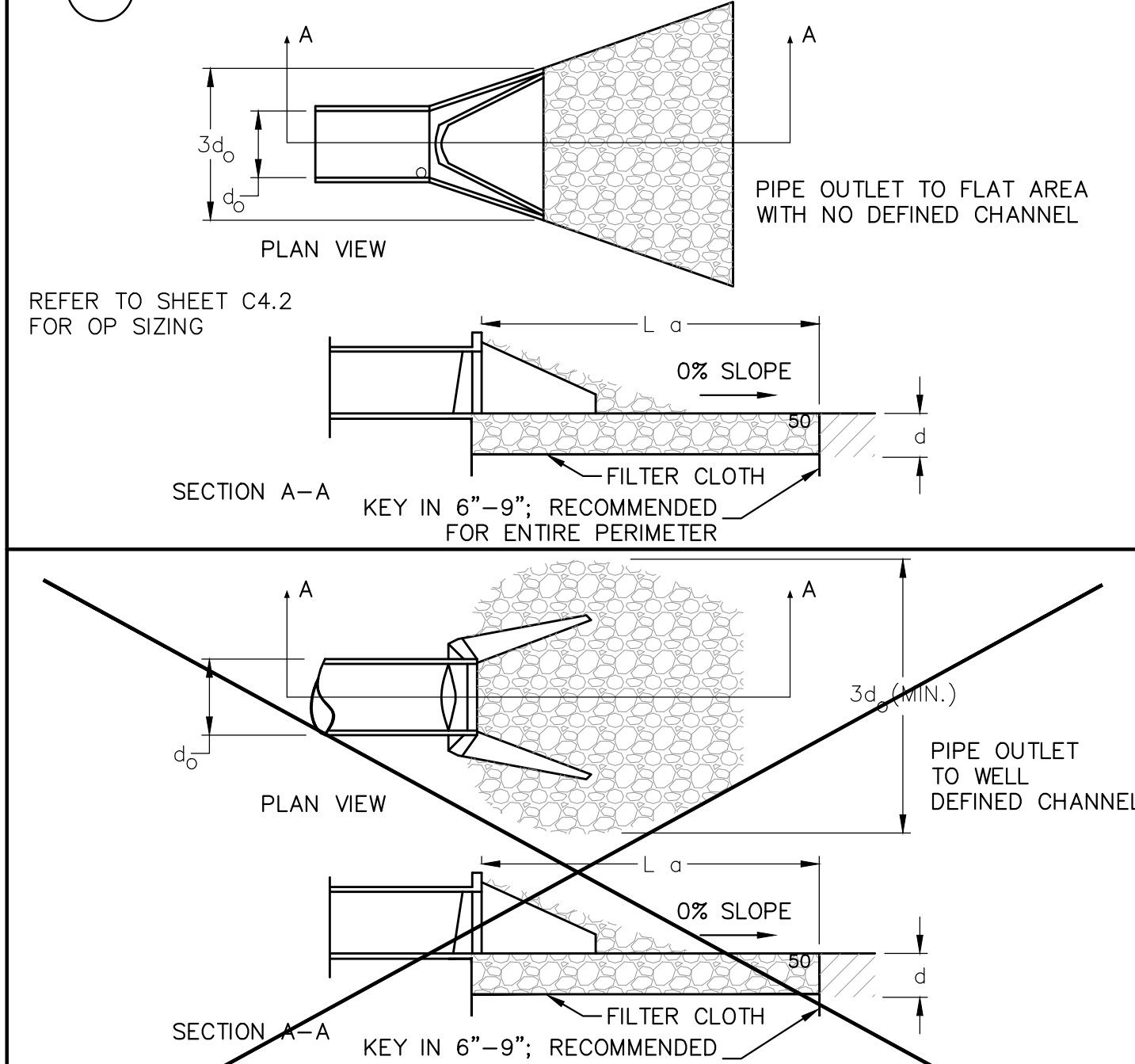
TEMPORARY SEEDING NOT TO SCALE

TABLE 3.35-A MU ORGANIC MULCH MATERIALS AND APPLICATION RATES

MULCHES:	RATES:		NOTES:
	Per Acre	Per 1000 sq. ft.	
Straw or Hay	1 1/2 - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

* When fiber mulch is the only available mulch during periods when straw should be used, apply at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

OP PIPE OUTLET CONDITIONS



- NOTES:
1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.
 2. L_o IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.
 3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

TYPICAL OUTLET PROTECTION DETAIL NOT TO SCALE

PERMANENT SEEDING PS

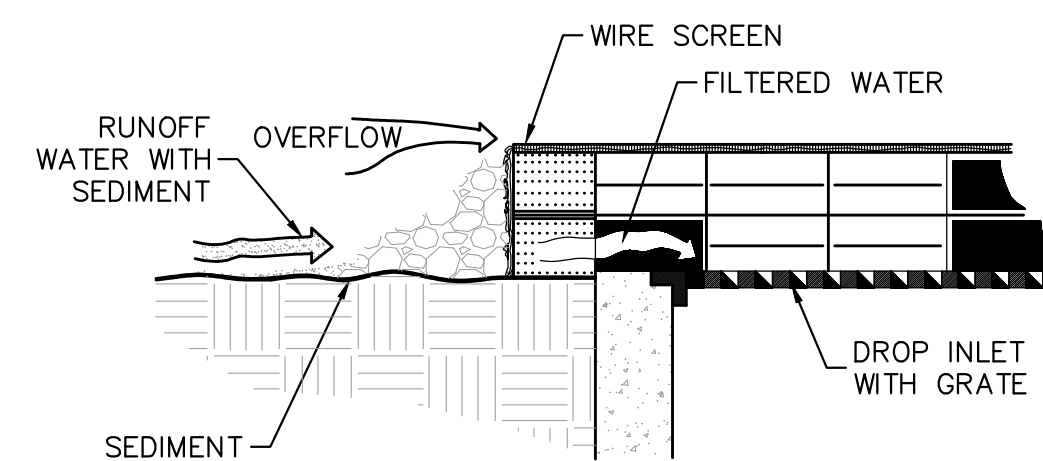
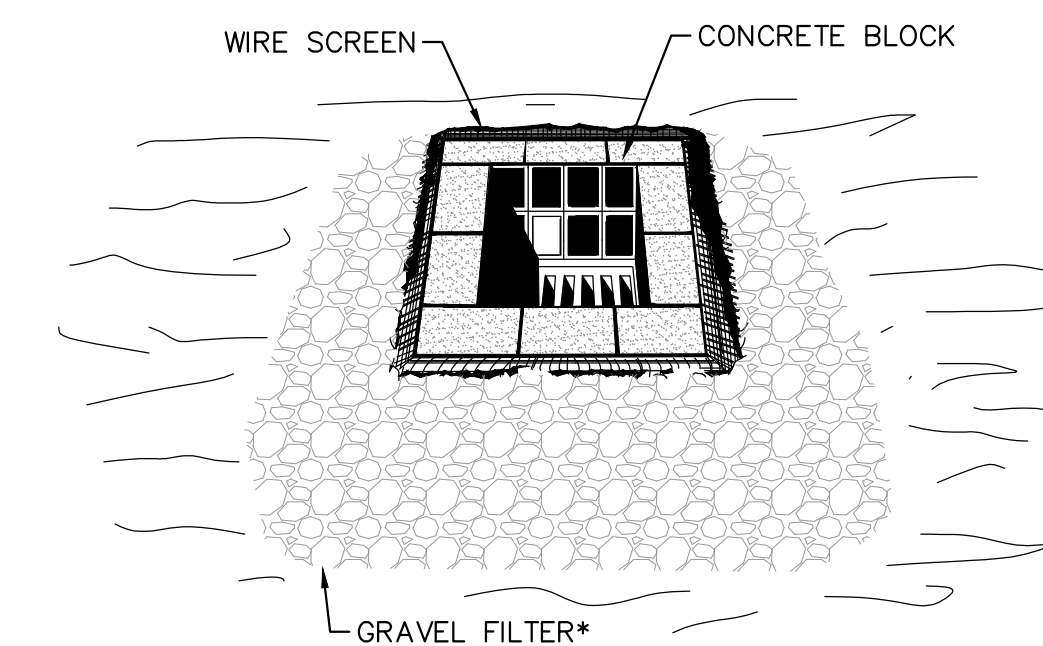
TABLE 3.32-D SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

MIXTURE	TOTAL LBS. PER ACRE
MINIMUM CARE LAWN	
-COMMERCIAL OR RESIDENTIAL	175-200 LBS.
-KENTUCKY 31 OR TURF-TYPE TALL FESCUE	95-100%
-IMPROVED PERENNIAL RYEGRASS	0-5%
-KENTUCKY BLUEGRASS	0-5%
HIGH-MAINTENANCE LAWN	
-KENTUCKY 31 OR TURF-TYPE TALL FESCUE	200-250 LBS.
GENERAL SLOPE (3:1 OR LESS)	
-KENTUCKY 31 FESCUE	128 LBS.
-RED TOP GRASS	2 LBS.
-SEASONAL NURSE CROP	*20 LBS.
	150 LBS.
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	
-KENTUCKY 31 FESCUE	108 LBS.
-RED TOP GRASS	2 LBS.
-SEASONAL NURSE CROP	*20 LBS.
-CROWN VETCH	**20 LBS.
	150 LBS.

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:
 FEBRUARY 16TH THROUGH APRIL ANNUAL RYE
 MAY 1ST THROUGH AUGUST 15TH FOXTAIL MILLET
 AUGUST 16TH THROUGH OCTOBER ANNUAL RYE
 NOVEMBER THROUGH FEBRUARY 15TH WINTER RYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWN VETCH EAST OF FARMVILLE, VA. (MAY THROUGH SEPTEMBER USE HULLED SERICEA, ALL OTHER PERIODS USE UNHULLED SERICEA.) IF FLATPEA IS USED IN LIEU OF CROWN VETCH, INCREASE RATE TO 30 LBS./ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS; ADD 10-20 LBS./ACRE IN MIXES.

PERMANENT SEEDING (PIEDMONT VIRGINIA) NOT TO SCALE

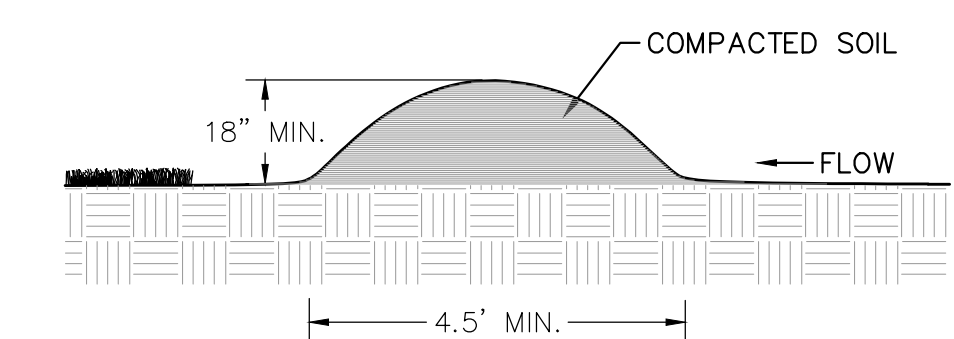


SPECIFIC APPLICATION

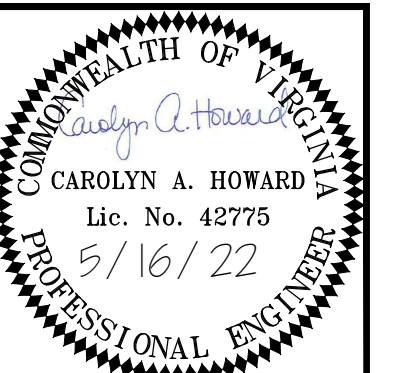
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPACITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

* GRAVEL SHALL BE VDOT #3, #357 OR #5 COARSE AGGREGATE.

IP BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER NOT TO SCALE



DD TEMPORARY DIVERSION DIKE NOT TO SCALE



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EROSION & SEDIMENT CONTROL DETAILS
FORK UNION FIRE TRAINING BUILDING SITE
 FLUVANNA COUNTY, VIRGINIA

REVISIONS

DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	NONE
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C6.0

TOPSOILING TO

FIELD EXPLORATION OF THE SITE SHALL BE MADE TO DETERMINE IF THERE IS SUFFICIENT SURFACE SOIL OF GOOD QUALITY TO JUSTIFY STRIPPING. TOPSOIL SHALL BE FRIABLE AND LOAMY (LOAM, SANDY LOAM, SILT LOAM, SANDY CLAY LOAM, CLAY LOAM). IT SHALL BE FREE OF DEBRIS, TRASH, STUMPS, ROCKS, ROOTS, AND NOXIOUS WEEDS, AND SHALL GIVE EVIDENCE OF BEING ABLE TO SUPPORT HEALTHY VEGETATION. IT SHALL CONTAIN NO SUBSTANCE THAT IS POTENTIALLY TOXIC TO PLANT GROWTH.

ALL TOPSOIL SHALL BE TESTED BY A RECOGNIZED LABORATORY FOR THE FOLLOWING CRITERIA:

- **ORGANIC MATTER** CONTENT SHALL BE NOT LESS THAN 1.5% BY WEIGHT.
 - **PH RANGE** SHALL BE FROM 6.0-7.5. IF PH IS LESS THAN 6.0, LIME SHALL BE ADDED IN ACCORDANCE WITH SOIL TEST RESULTS OR IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.
 - **SOLUBLE SALTS** SHALL NOT EXCEED 500 PPM.
- IF ADDITIONAL OFF-SITE TOPSOIL IS NEEDED, IT MUST MEET THE STANDARDS STATED ABOVE.

STRIPPING: TOPSOIL OPERATIONS SHOULD NOT BE PERFORMED WHEN THE SOIL IS WET OR FROZEN. STRIPPING SHALL BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA. A 4-TO 6-INCH STRIPPING DEPTH IS COMMON, BUT DEPTH MAY VARY DEPENDING ON THE PARTICULAR SOIL. ALL PERIMETER DIKES, BASINS, AND OTHER SEDIMENT CONTROLS SHALL BE IN PLACE PRIOR TO STRIPPING.

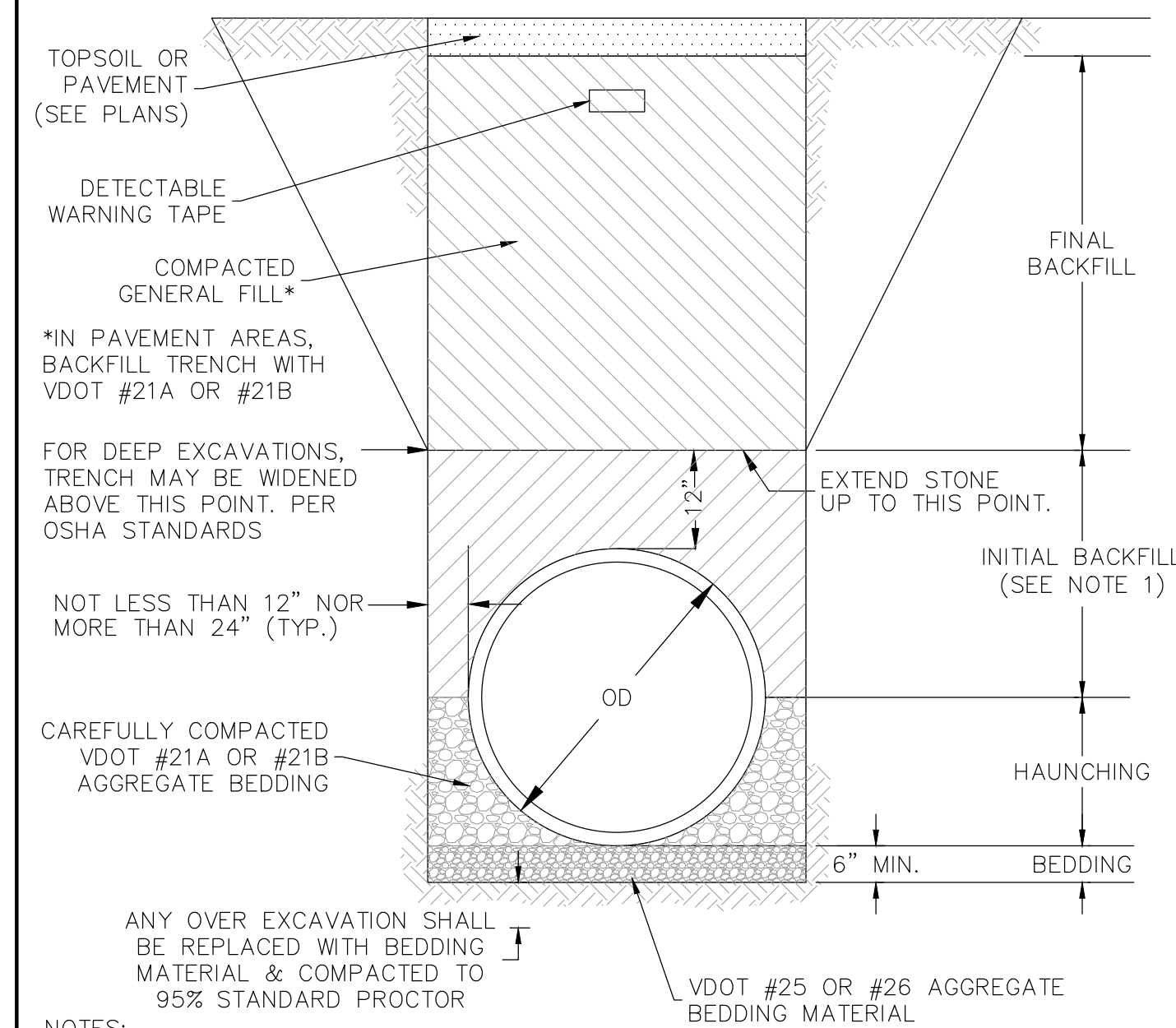
STOCKPILING: TOPSOIL SHALL BE STOCKPILED IN SUCH A MANNER THAT NATURAL DRAINAGE IS NOT OBSTRUCTED AND NO OFF-SITE SEDIMENT DAMAGE SHALL RESULT. STABILIZE OR PROTECT STOCKPILES IN ACCORDANCE WITH MS #2. SIDE SLOPES OF THE STOCKPILE SHALL NOT EXCEED 2:1. PERIMETER CONTROLS MUST BE PLACED AROUND THE STOCKPILE IMMEDIATELY; SEEDING OF STOCKPILES SHALL BE COMPLETED WITHIN 7 DAYS OF THE FORMATION OF THE STOCKPILE, IN ACCORDANCE WITH STD. & SPEC. 3.31. TEMPORARY SEEDING IF IT IS TO REMAIN DORMANT FOR LONGER THAN 30 DAYS (REFER TO MS #1 AND MS #2).

LIMING: WHERE THE PH OF THE SUBSOIL IS 6.0 OR LESS, OR THE SOIL IS COMPOSED OF HEAVY CLAYS, AGRICULTURAL LIMESTONE SHALL BE SPREAD IN ACCORDANCE WITH THE SOIL TEST OR THE VEGETATIVE ESTABLISHMENT PRACTICE BEING USED.

BONDING: AFTER THE AREAS TO BE TOPSOILED HAVE BEEN BROUGHT TO GRADE, AND IMMEDIATELY PRIOR TO DUMPING AND SPREADING THE TOPSOIL, THE SUBGRADE SHALL BE LOOSENED BY DISCING OR SCARIFYING TO A DEPTH OF AT LEAST 2 INCHES TO ENSURE BONDING OF THE TOPSOIL AND SUBSOIL.

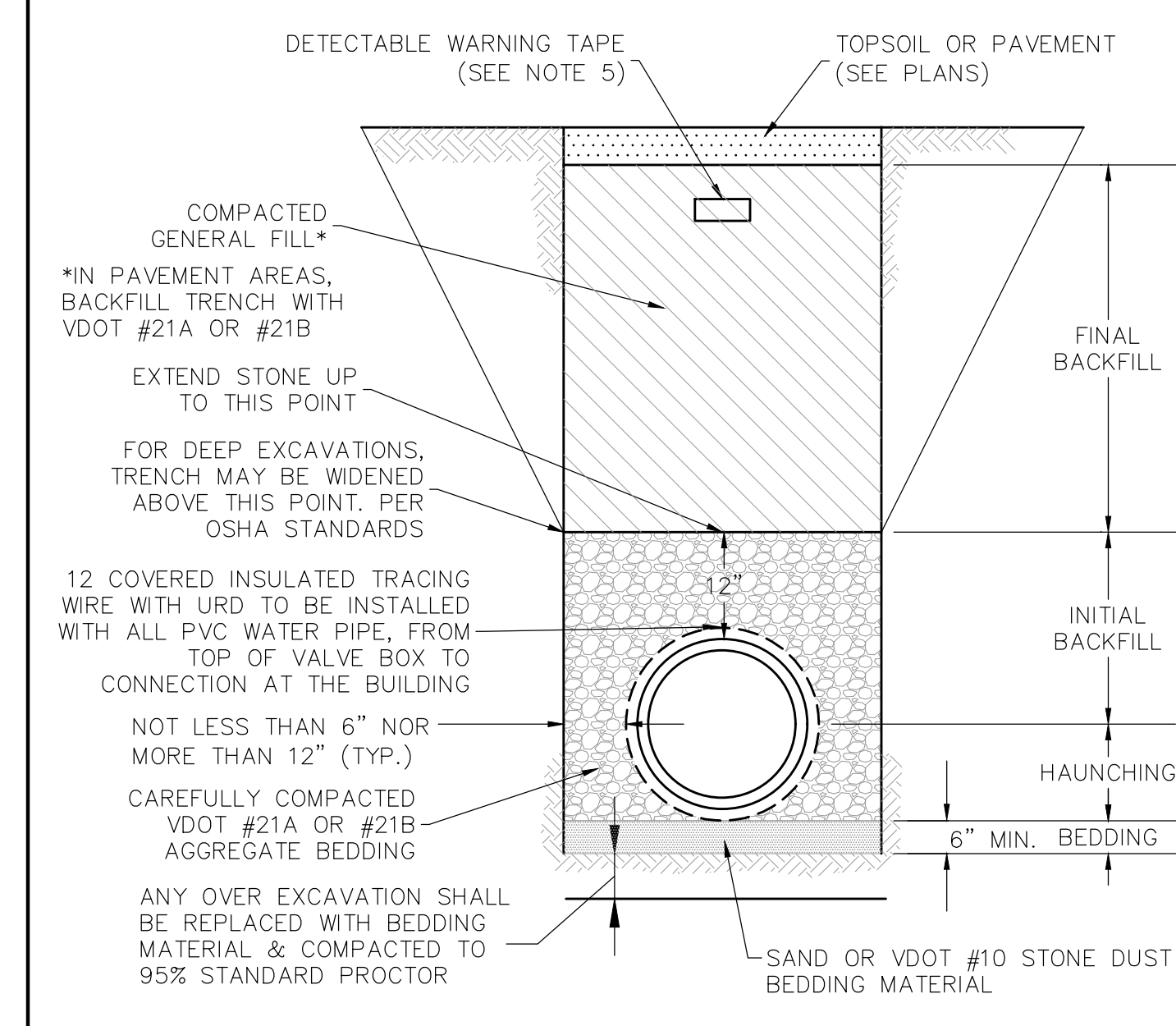
APPLYING TOPSOIL: TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION. WHEN TOPSOIL OR SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING, THE TOPSOIL SHALL BE UNIFORMLY DISTRIBUTED TO A MINIMUM COMPACTED DEPTH OF 2 INCHES ON 3:1 OR STEEPER SLOPES AND 4 INCHES ON FLATTER SLOPES. ANY IRREGULARITIES IN THE SURFACE, RESULTING FROM TOPSOILING OR OTHER OPERATIONS, SHALL BE CORRECTED IN ORDER TO PREVENT THE FORMATION OF DEPRESSIONS OR WATER POCKETS.

IT IS NECESSARY TO COMPACT THE TOPSOIL ENOUGH TO ENSURE GOOD CONTACT WITH THE UNDERLYING SOIL AND TO OBTAIN A LEVEL SEEDBED FOR THE ESTABLISHMENT OF HIGH MAINTENANCE TURF. HOWEVER, UNDUE COMPACTION IS TO BE AVOIDED AS IT INCREASES RUNOFF VELOCITY AND VOLUME, AND DETERS SEED GERMINATION. SPECIAL CONSIDERATION SHOULD BE GIVEN TO THE TYPES OF EQUIPMENT USED TO PLACE TOPSOIL IN AREAS TO RECEIVE FINE TURF. AVOID UNNECESSARY COMPACTION BY HEAVY MACHINERY WHENEVER POSSIBLE.



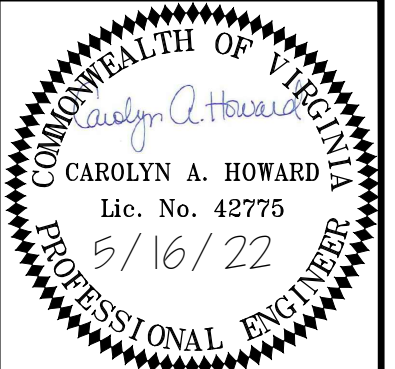
- NOTES:
1. INITIAL BACKFILL SHALL BE VDOT #21A OR #21B FOR PLASTIC PIPE AND CONCRETE PIPE IN PAVEMENT AREAS. COMPACTED GENERAL FILL IS SUITABLE FOR CONCRETE PIPE IN NON-PAVEMENT AREAS.
 2. ALL BACKFILL AND BEDDING MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 302 OF THE ROAD AND BRIDGE SPECIFICATIONS.
 3. ALL MATERIAL SHALL BE PLACED IN 6" LOOSE LAYERS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR, UNLESS OTHERWISE NOTED. WORK IN AND TAMP THE HAUNCHING MATERIAL IN THE AREA BETWEEN THE BEDDING AND UNDERSIDE OF PIPE.
 4. DO NOT PERMIT COMPACTION EQUIPMENT TO CONTACT PIPE. REMOVE ANY DAMAGED PIPE SECTIONS BEFORE PROCEEDING.
 5. INSTALL DETECTABLE WARNING TAPE 12" BELOW GRASS AND LANDSCAPE AREAS AND 6" BELOW PAVEMENTS AND HARDSCAPE AREAS.

1
C4.0/C6.1
STORM SEWER TRENCH BEDDING DETAIL
NOT TO SCALE



- NOTES:
1. ALL OTHER BEDDING MATERIAL SHALL BE PLACED IN 6" LOOSE LAYERS AND COMPACTED TO AT LEAST 95% STANDARD PROCTOR. WORK IN AND TAMP THE HAUNCHING MATERIAL IN THE AREA BETWEEN THE BEDDING AND UNDERSIDE OF PIPE.
 2. BACKFILL (OUTSIDE OF PAVEMENT AREAS) SHALL BE PLACED IN 6" LOOSE LAYERS AND COMPACTED TO 90% STANDARD PROCTOR.
 3. REFER TO SPECIFICATION FOR ADDITIONAL BACKFILL COMPACTION REQUIREMENTS.
 4. DO NOT PERMIT COMPACTION EQUIPMENT TO CONTACT PIPE. REMOVE ANY DAMAGED PIPE SECTIONS BEFORE PROCEEDING.
 5. INSTALL DETECTABLE WARNING TAPE 12" BELOW GRASS AND LANDSCAPE AREAS AND 6" BELOW PAVEMENTS AND HARDSCAPE AREAS.

2
C4.0/C6.1
WATER AND SEWER TRENCH BEDDING DETAIL
NOT TO SCALE



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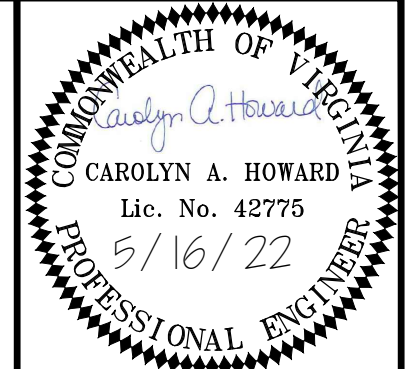
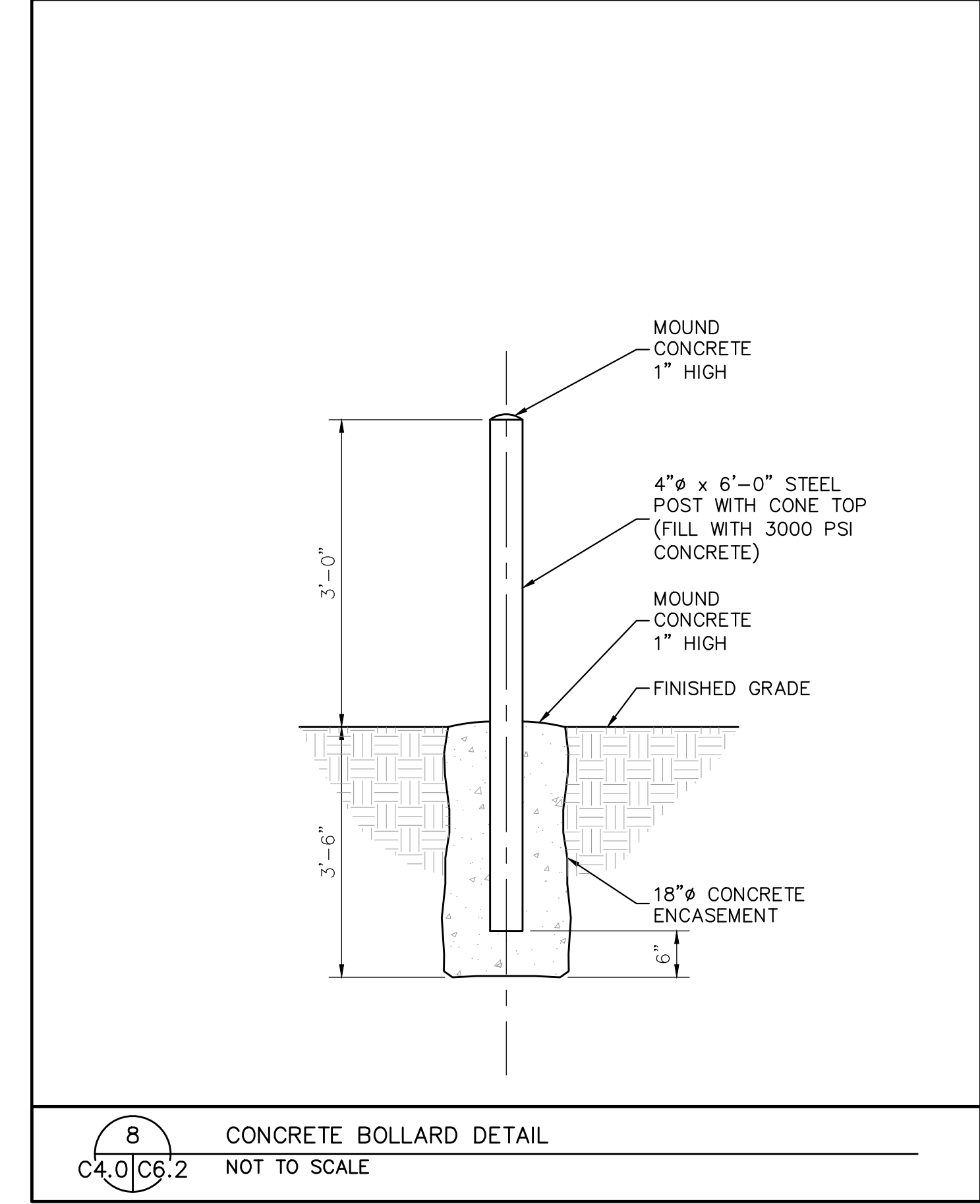
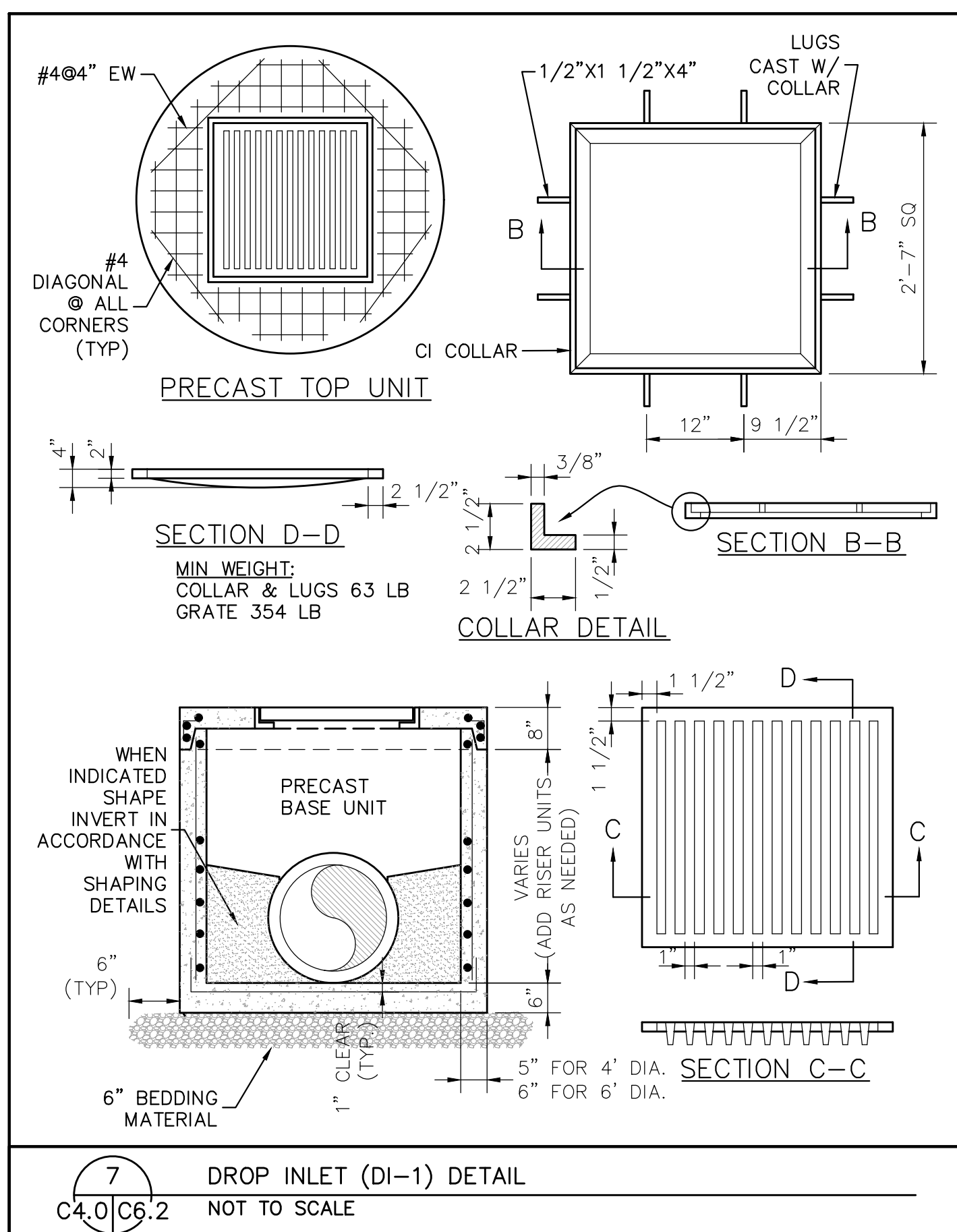
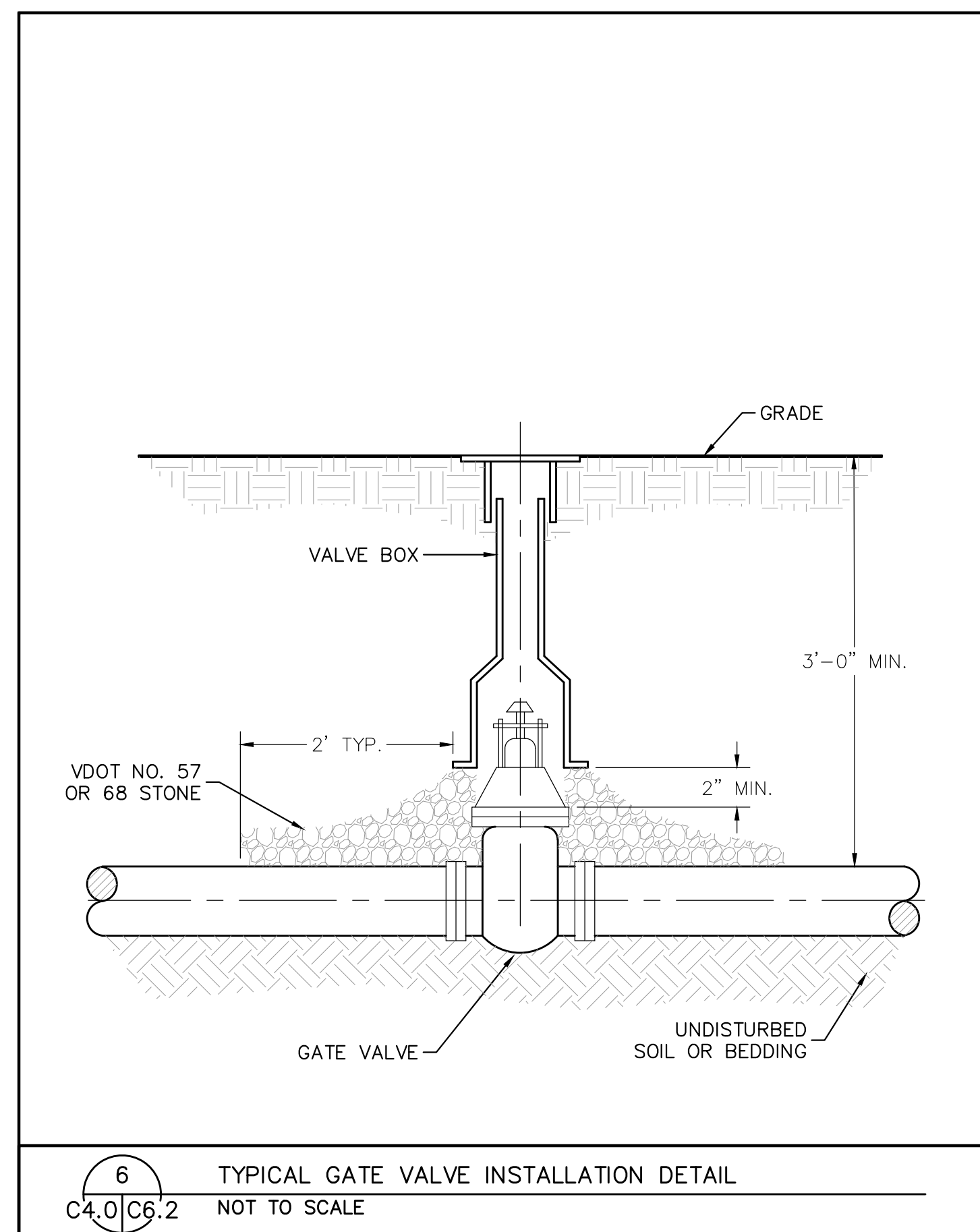
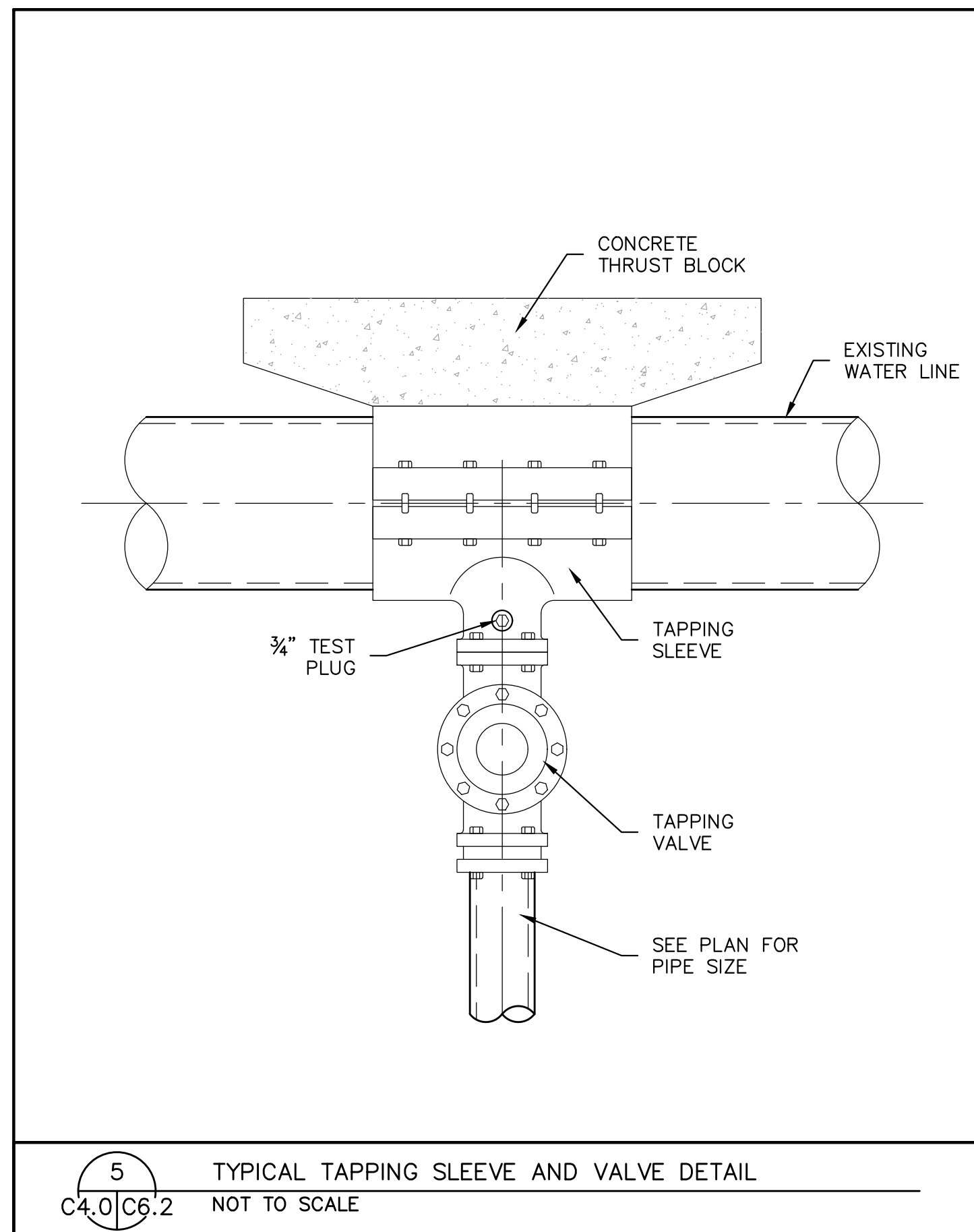
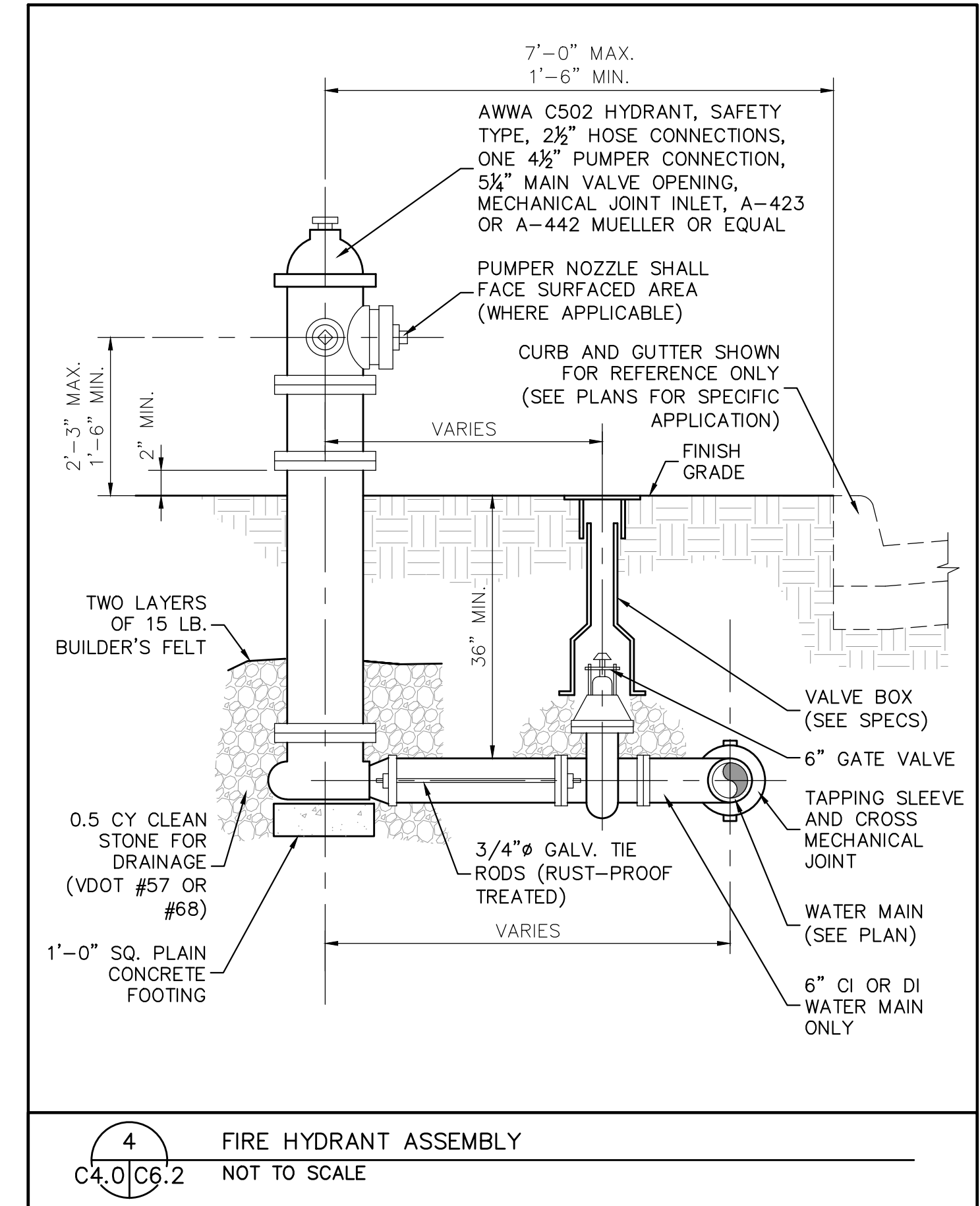
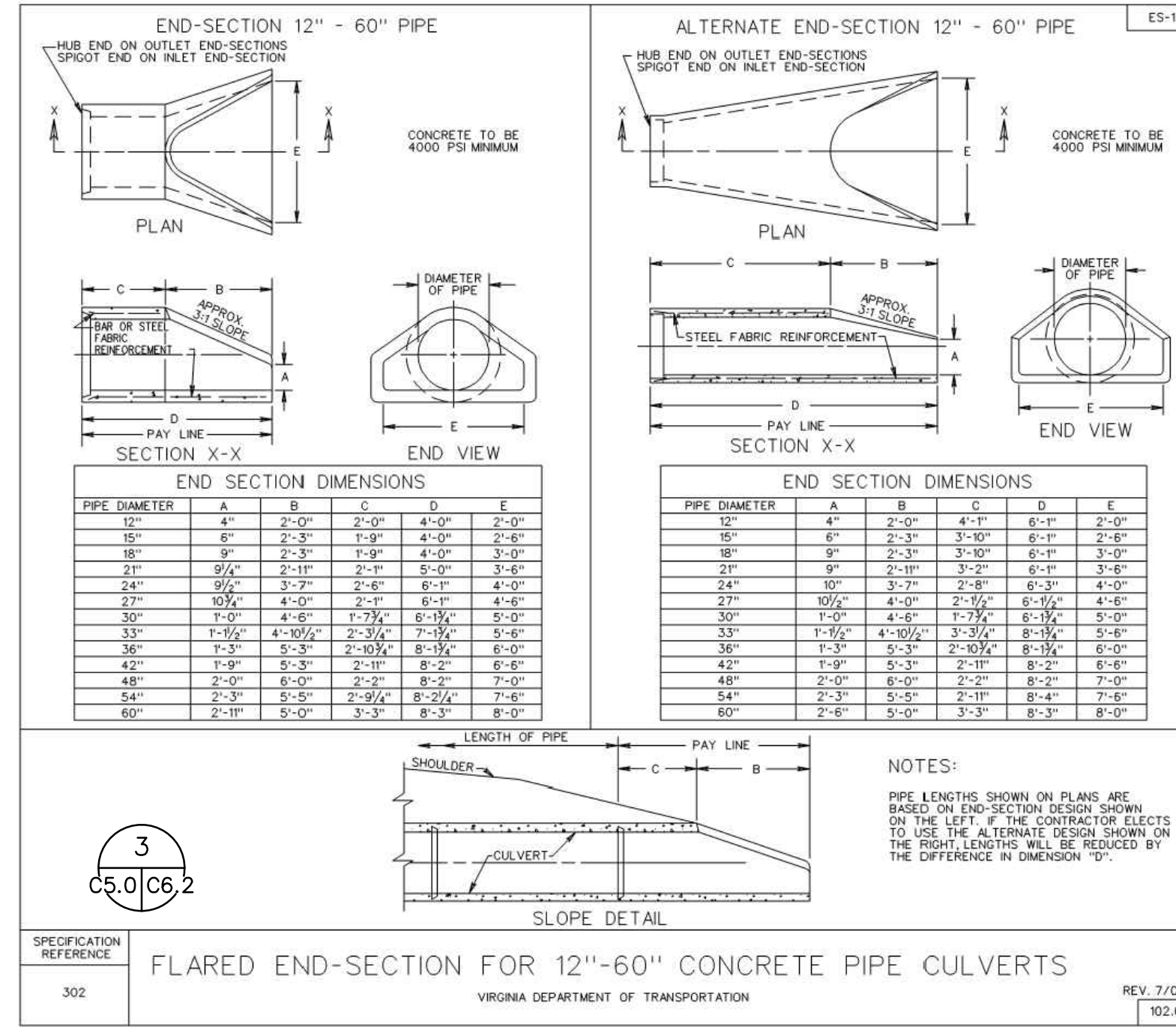
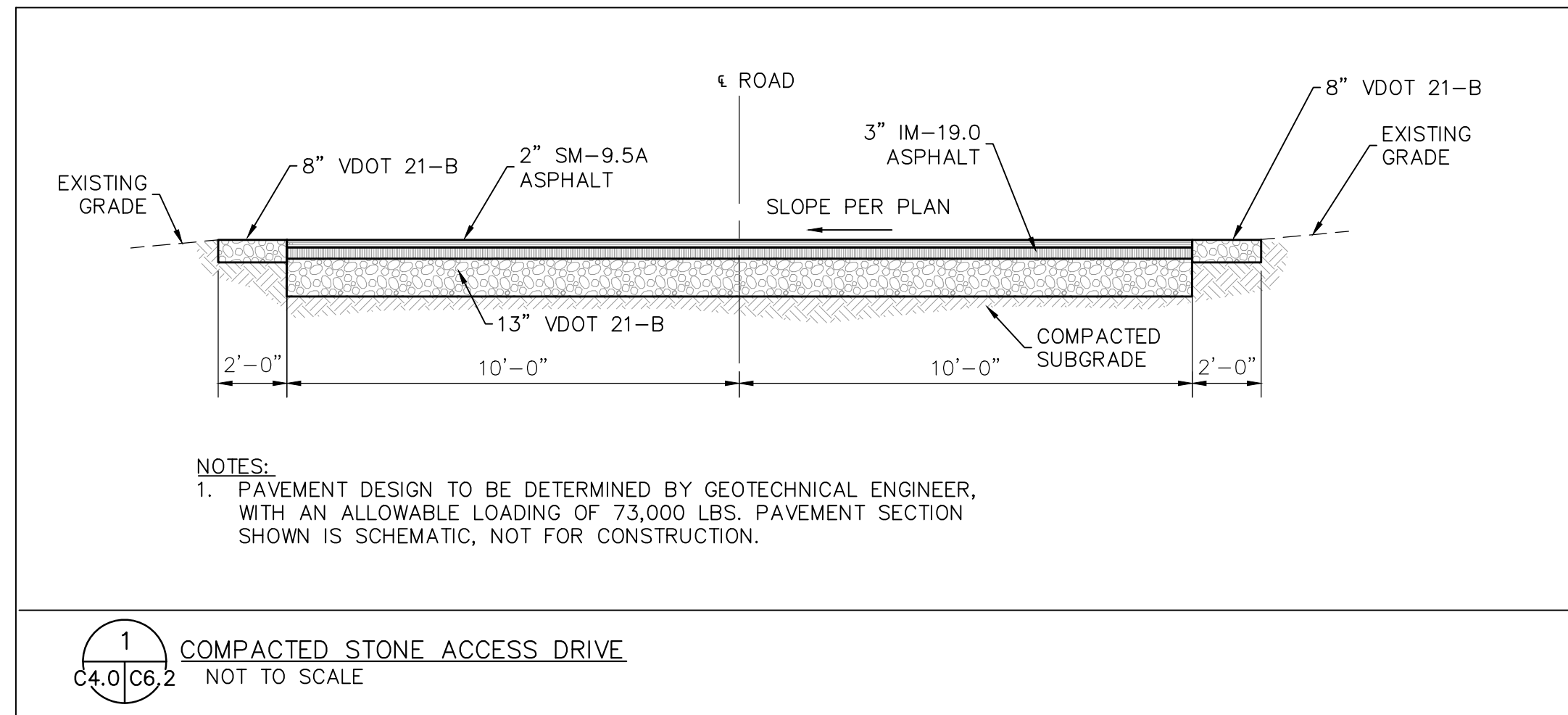


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Charlottesville, VA 22902
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www.daa.com

DETAILS
**FORK UNION FIRE TRAINING
BUILDING SITE**
FLUVANNA COUNTY, VIRGINIA

REVISIONS	
DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	NONE
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C6.1



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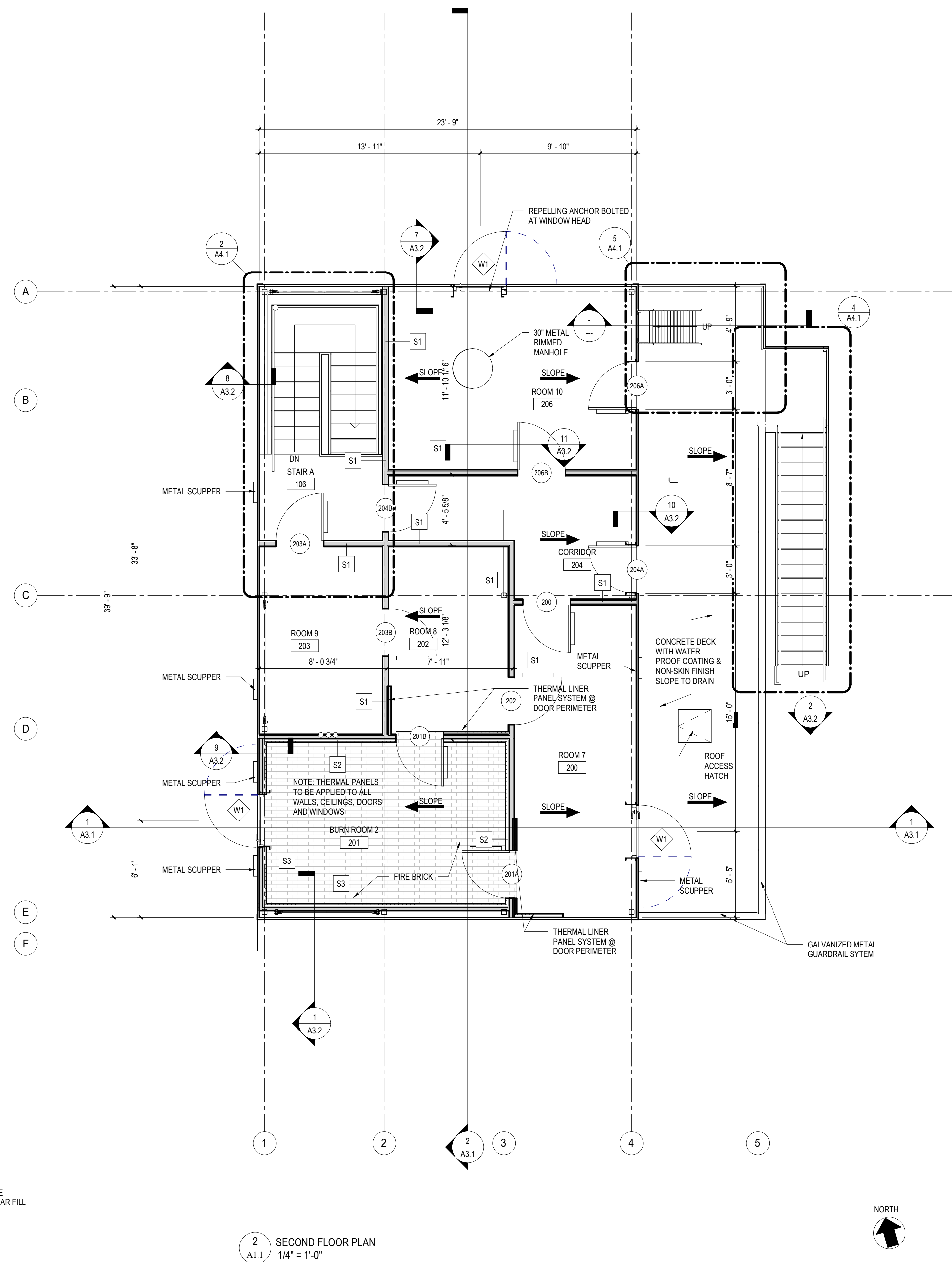
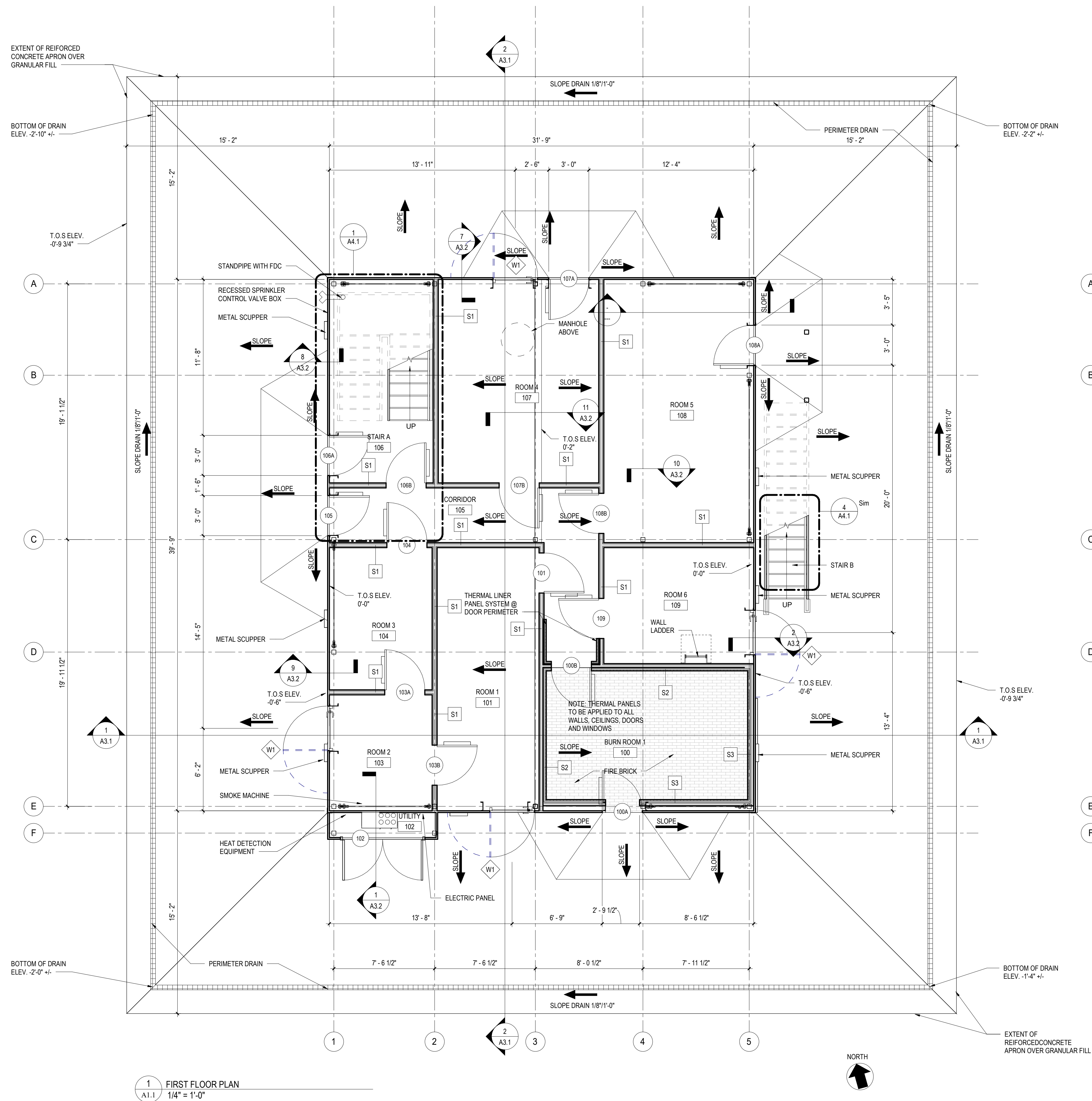
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DETAILS
FORK UNION FIRE TRAINING
BUILDING SITE
FLUVANNA COUNTY, VIRGINIA

REVISIONS	
DESIGNED BY:	DAA
DRAWN BY:	MJR
CHECKED BY:	CAH
SCALE:	NONE
DATE:	MAY 16, 2022
PROJECT NUMBER:	18060133-010301

C6.2



GENERAL NOTES:

1. ALL DOOR JAMBS SHALL BE LOCATED 4" FROM INSIDE CORNER OF WALL ON HINGE SIDE UNLESS OTHERWISE INDICATED.
2. COORDINATE LOCATION OF MEP EQUIPMENT, DEVICES, OUTLET BOXES, ETC. WITH OTHER EQUIPMENT AND FINISH SCHEDULE PRIOR TO INSTALLATION.
3. THE PERIMETER CONCRETE APRON SHALL BE SLOPED 2% AWAY FROM THE BUILDING TO THE EDGE OF THE APRON.
4. ALL EXTERIOR ENTRANCE PADS SHALL BE SLOPED 5% MAX AWAY FROM THE BUILDING TO EDGE OF PAD.
5. UNLESS NOTED OTHERWISE, ALL FLOOR DRAINS SHALL BE SET 1/4" MAX BELOW FIN FLOOR. DISH FIN. FLOOR MIN. OF 24" RADIUS TO TOP OF FLOOR DRAIN.
6. ALL WALL LAYOUT DIMENSIONS ARE FROM FACE OF STUD & FACE OF CMU UNLESS OTHERWISE NOTED.



FIRST & SECOND FLOOR PLAN
PROJECT SCALE: 1/4" = 1'-0"
FILENAME:
DATE: 5/16/2022

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NO.	MM-DD-YR	NAME	DESCRIPTION OF CHANGES

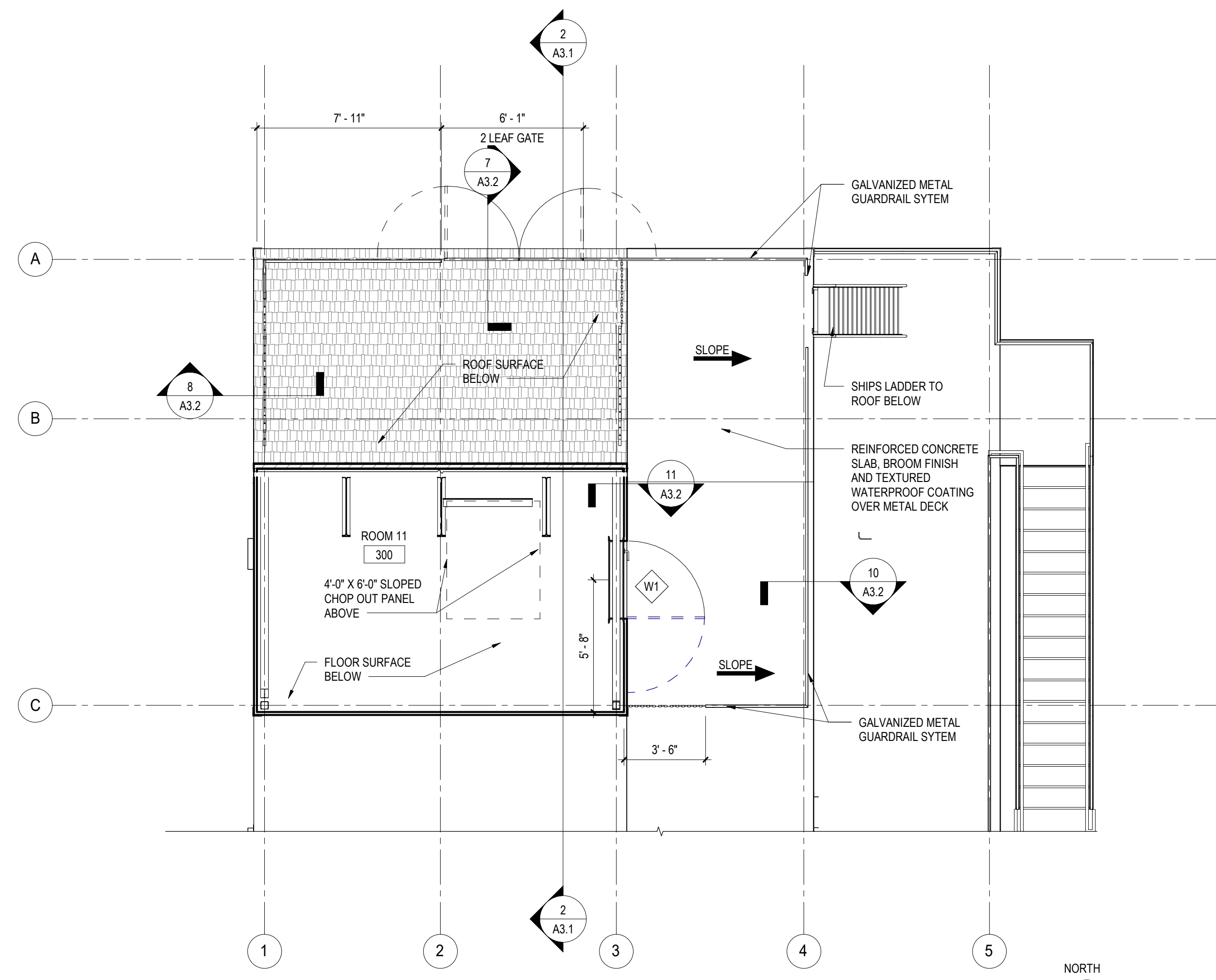
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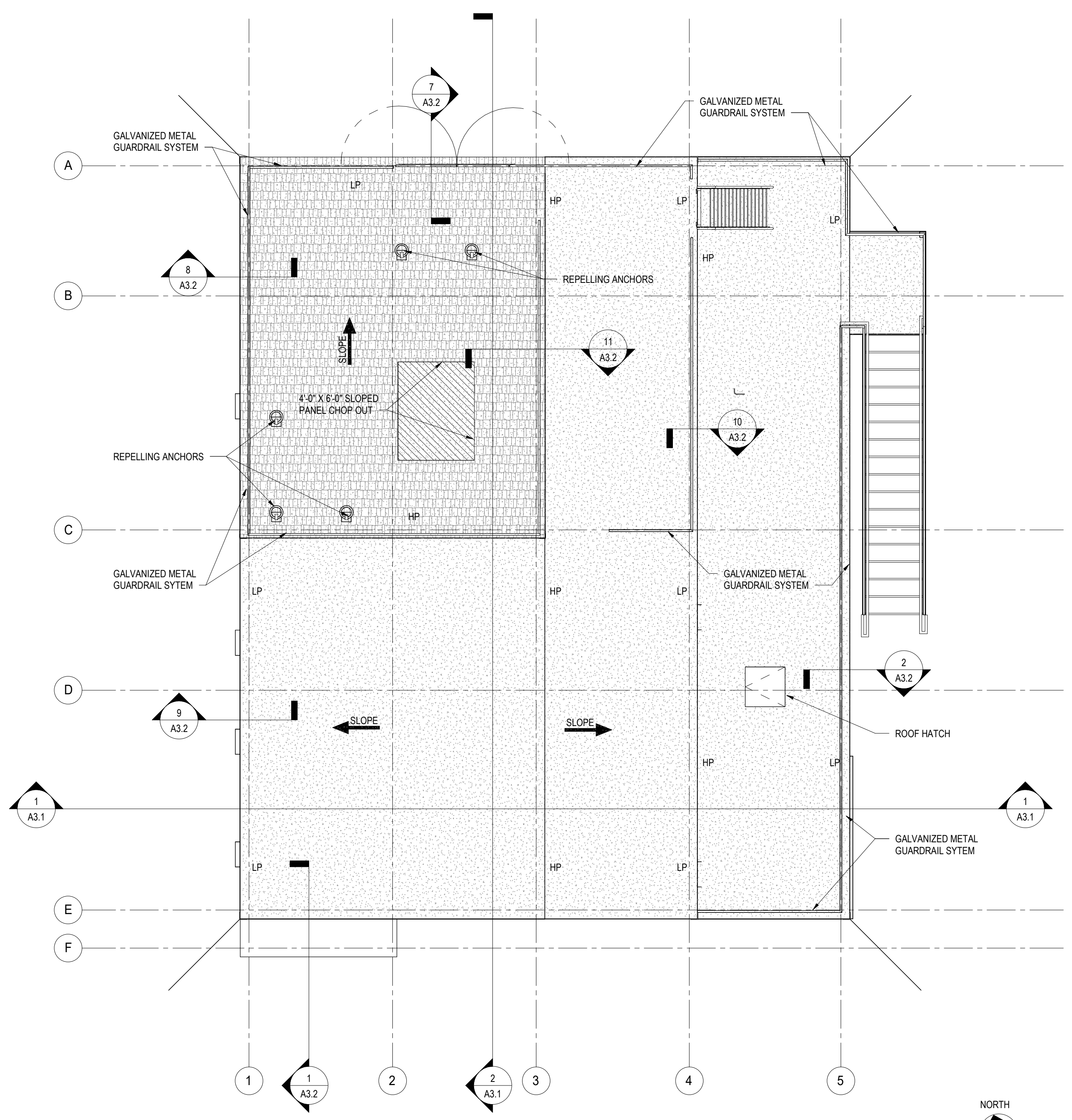
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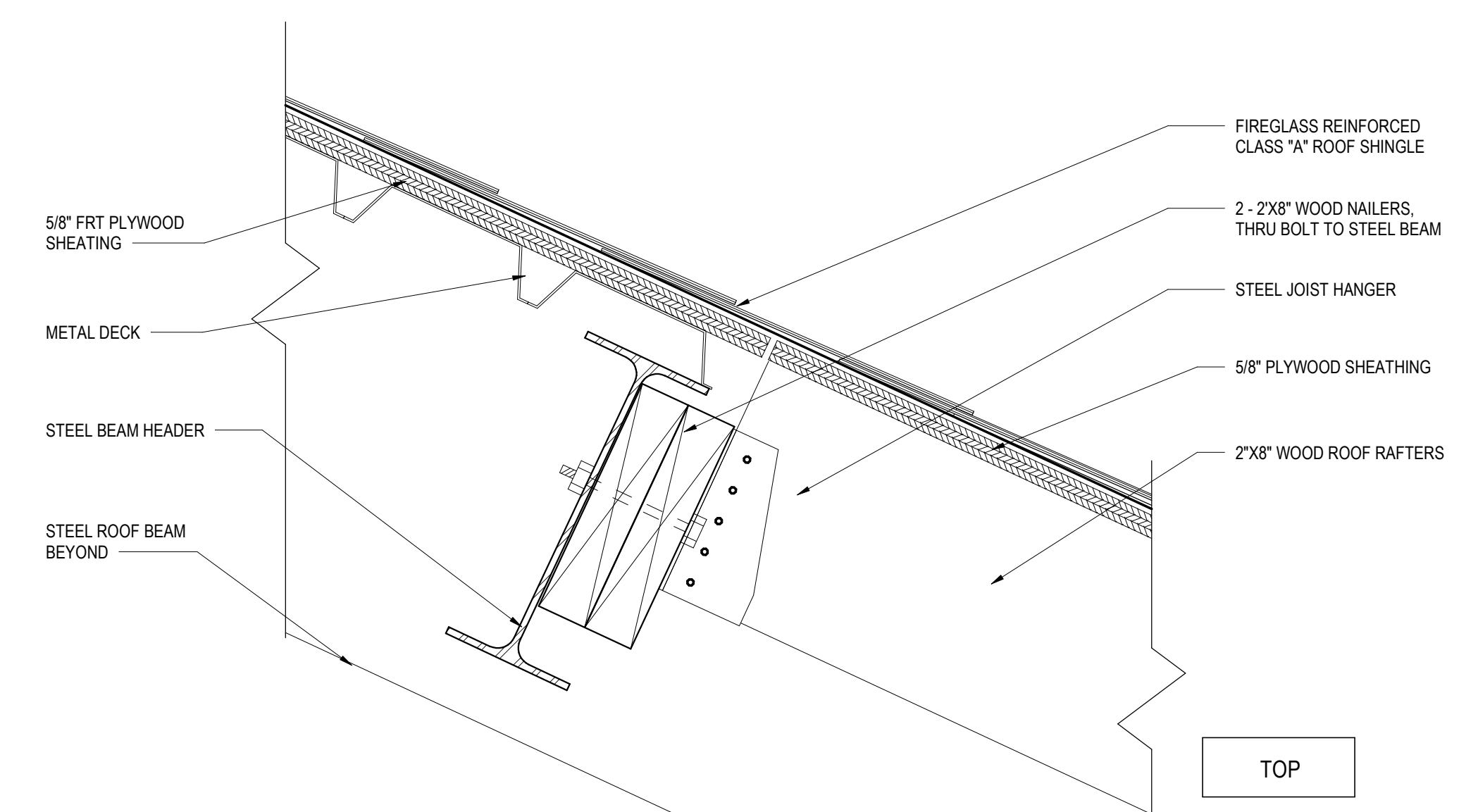
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3461
A1.1



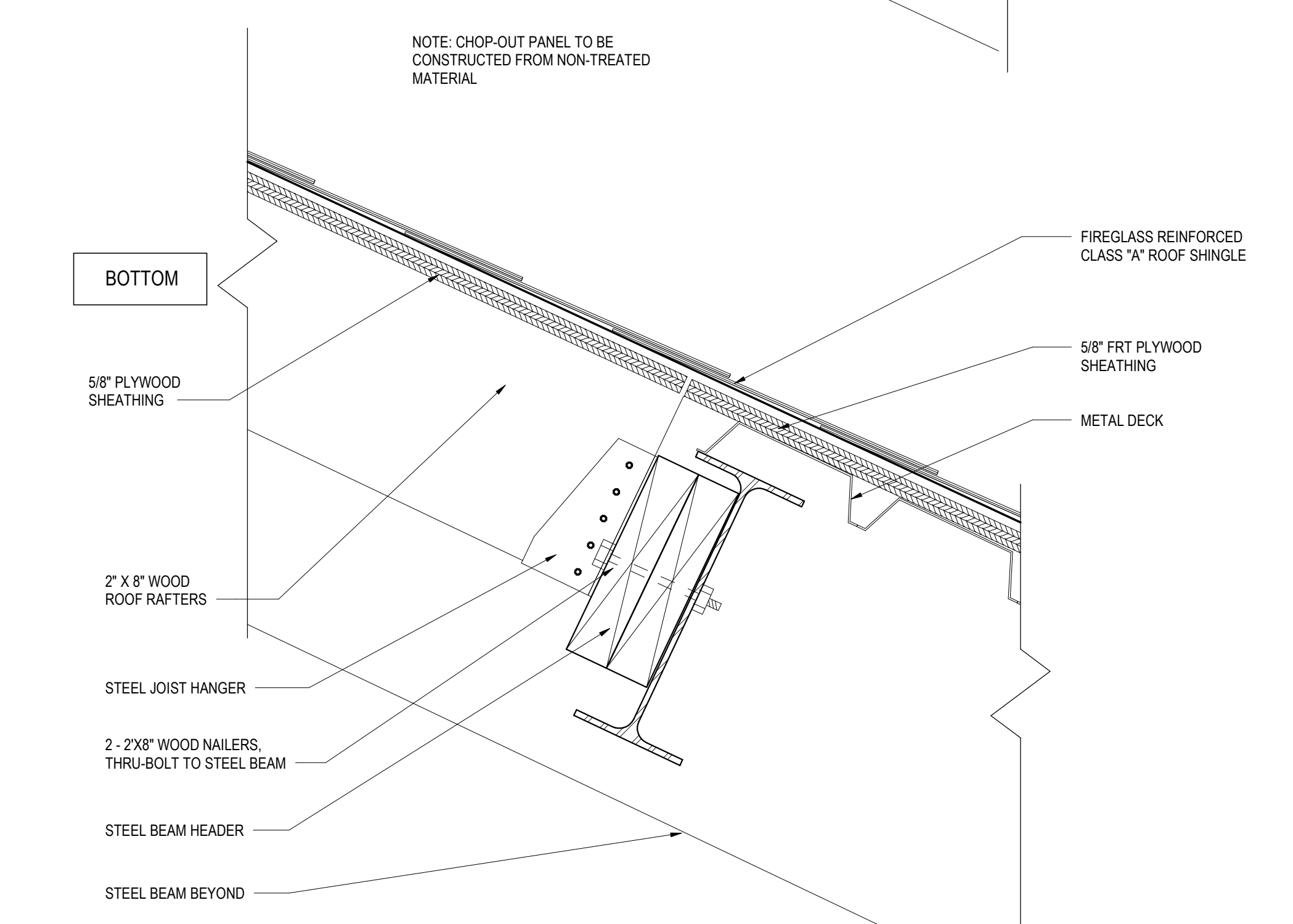
1 PARTIAL UPPER ROOF DECK PLAN
1/4" = 1'-0"



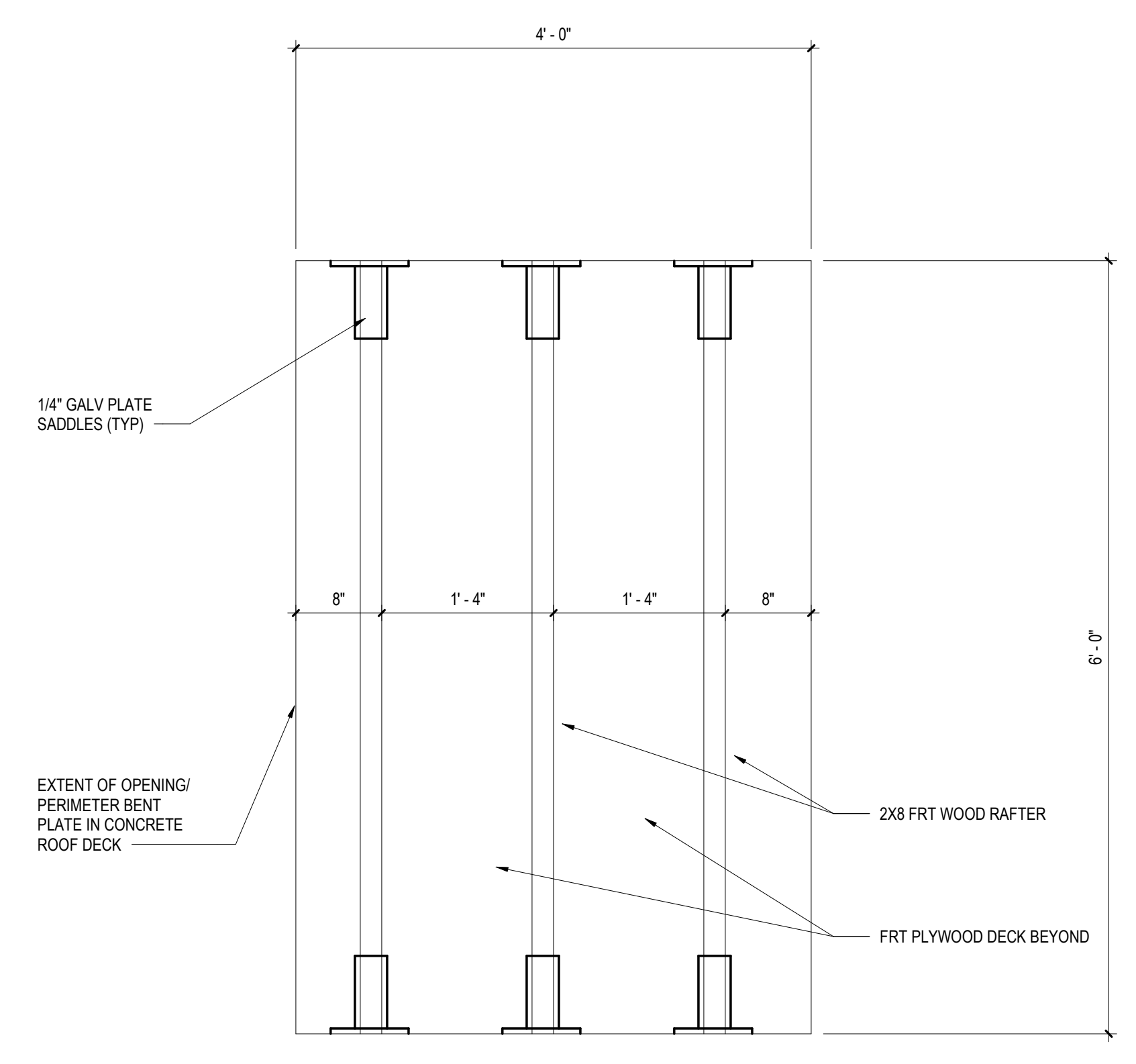
2 ROOF PLAN
1/4" = 1'-0"



TOP



3 CHOP-OUT PANEL DETAIL
3\"/>



4 CHOP-OUT PANEL PLAN DETAIL
1\"/>

LEGEND		ROOF PLAN NOTES:
LP	LOW POINT	1. COORDINATE ROOF-MOUNTED EQUIPMENT & PENETRATIONS. REFER TO MEP DRAWINGS.
HP	HIGH POINT	
OD	OVERFLOW DRAIN	2. CRICKETS AND SADDLES SHALL HAVE A MINIMUM OF TWO TIMES THE SLOPE OF THE PRIMARY TAPERED SYSTEM OR STRUCTURAL SLOPE.
→	FLOW DIRECTION	
[Pattern]	INDICATES CONCRETE DECK WITH WATERPROOF COATING AND BROOM FINISH. SLOPE TO DRAIN	
[Pattern]	INDICATES CLASS "A" FIBERGLASS REINFORCED ROOF SHINGLE OVER FIRE RESISTANT ROOF SHEATHING.	

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THIRD & ROOF FLOOR PLAN
 PLOT SCALE:
 As indicated
 FILENAME:
 DATE:
 5/16/2022

PROJECT
 3461
A1.2

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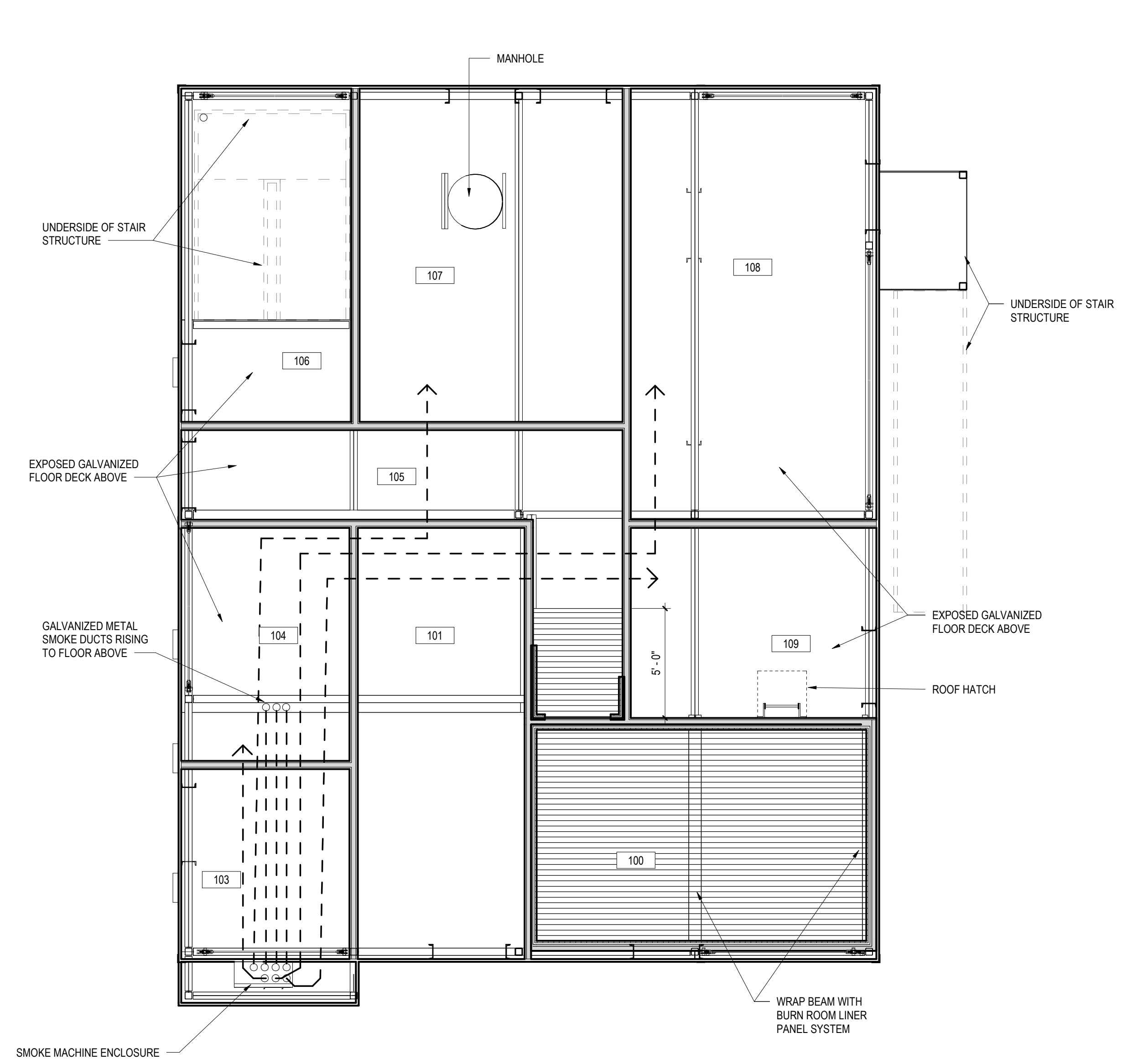
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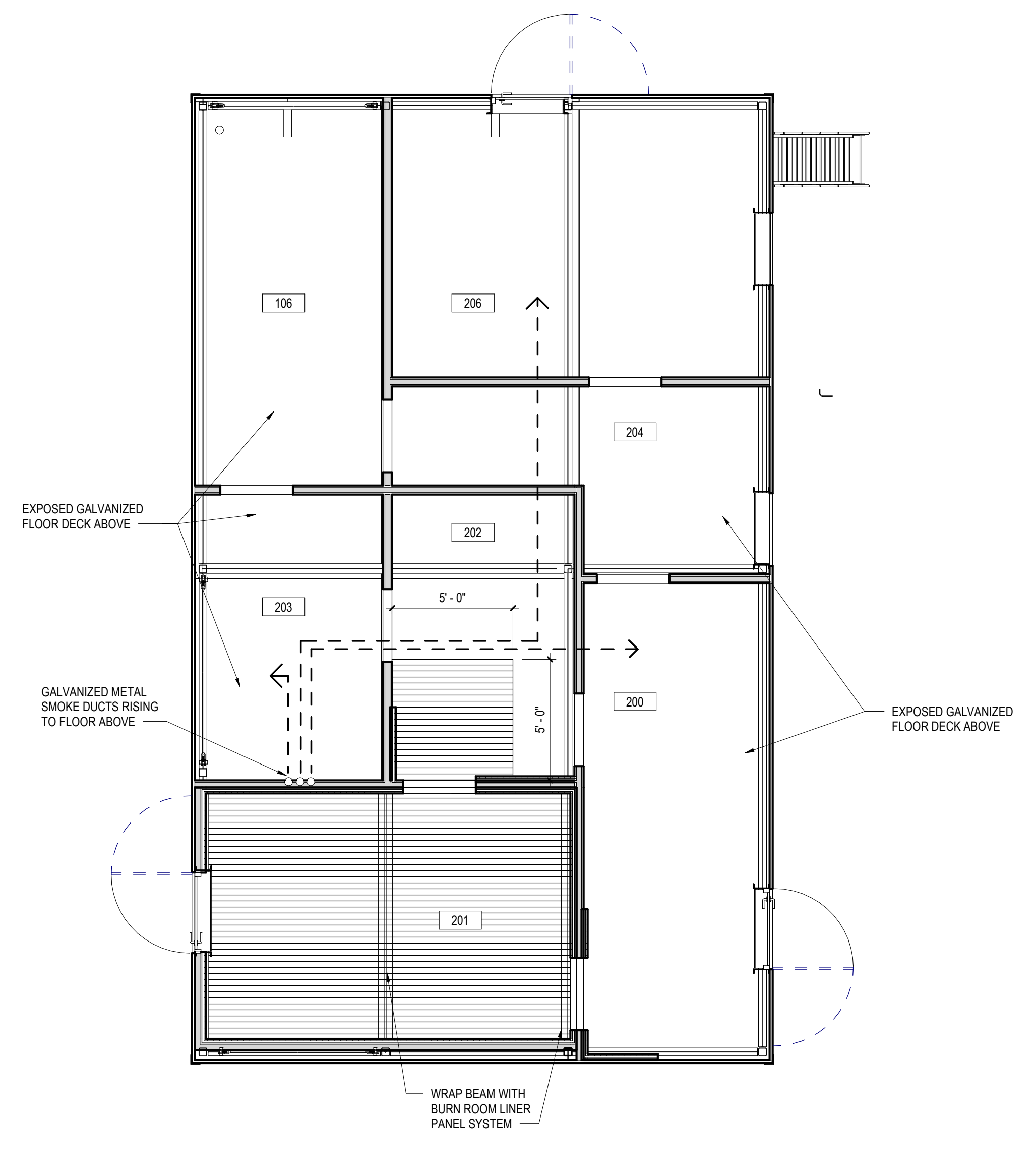


FIRST AND SECOND FLOOR REFLECTED CEILING PLANS
 PROJECT 3461
 PLOT SCALE: 1/4" = 1'-0"
 FILENAME:
 DATE: 5/16/2022

A1.3



1 FIRST FLOOR REFLECTED CEILING PLAN
 A1.3 1/4" = 1'-0"



2 SECOND FLOOR REFLECTED CEILING PLAN
 A1.3 1/4" = 1'-0"

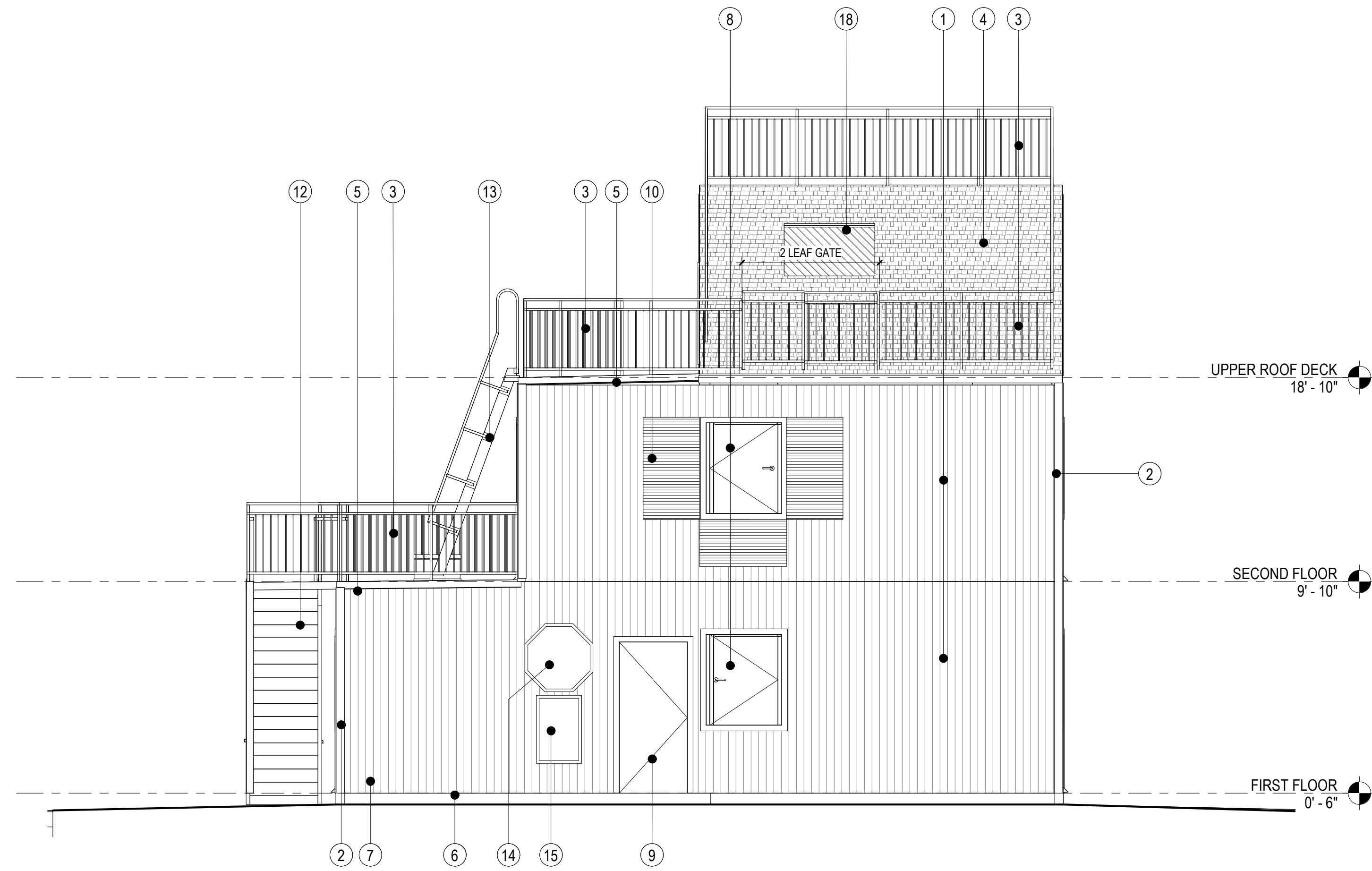
REFLECTED CEILING PLAN GENERAL NOTES:

- ALL METAL TO BE GALVANIZED.
- ALL METAL SMOKE DUCT TO BE GALVANIZED AND SUSPEND FROM STEEL DECK AND BEAMS WITH GALVANIZED (NON-CORROSIVE) HANGERS.

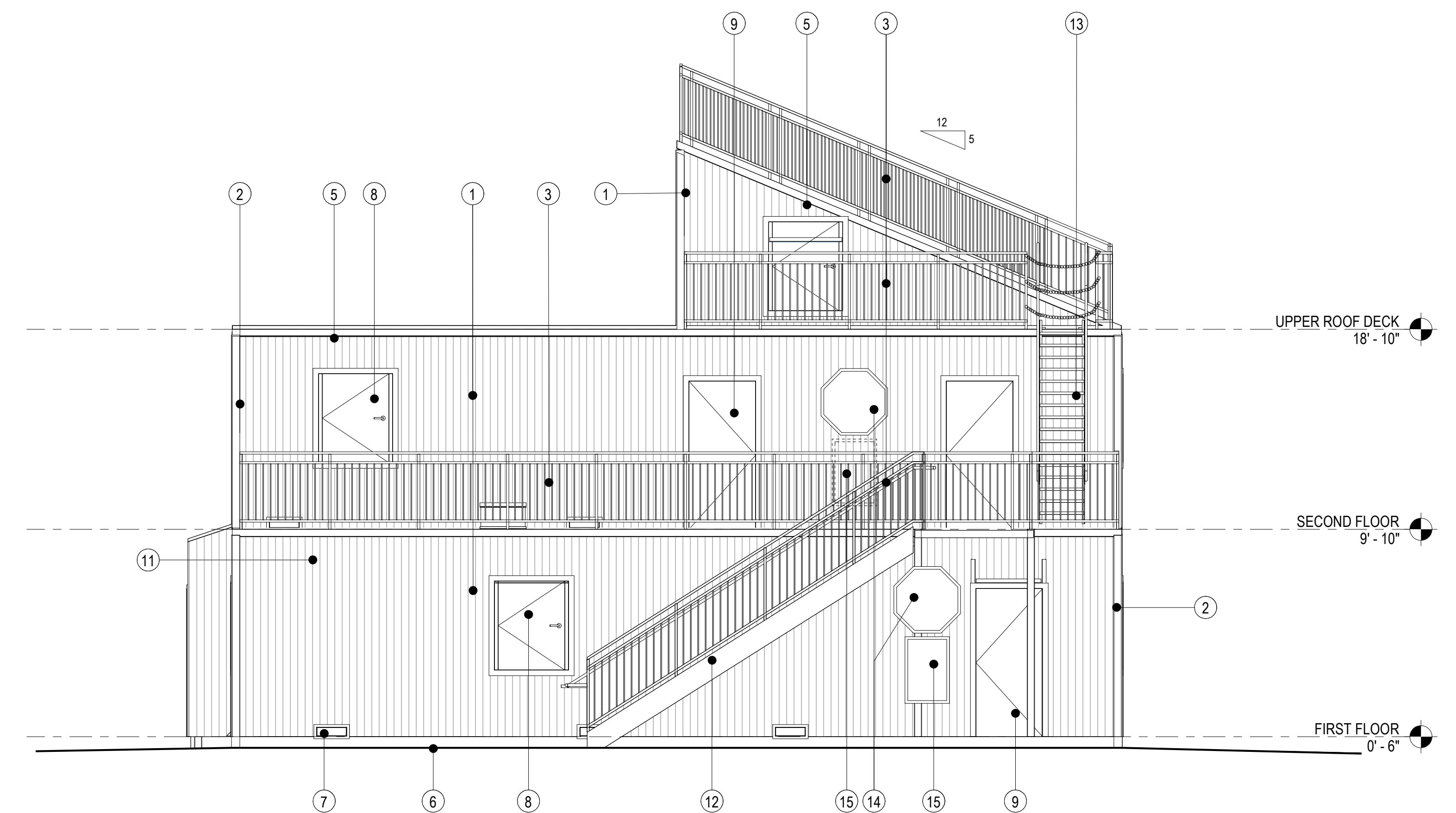
LEGEND

	BURN ROOM THERMAL LINING SYSTEM		SURFACE MOUNTED DOWN LIGHT, SEE MEP DRAWINGS
	STEEL LINTEL - PAINTED		
	GALVANIZED METAL SMOKE DUCT		

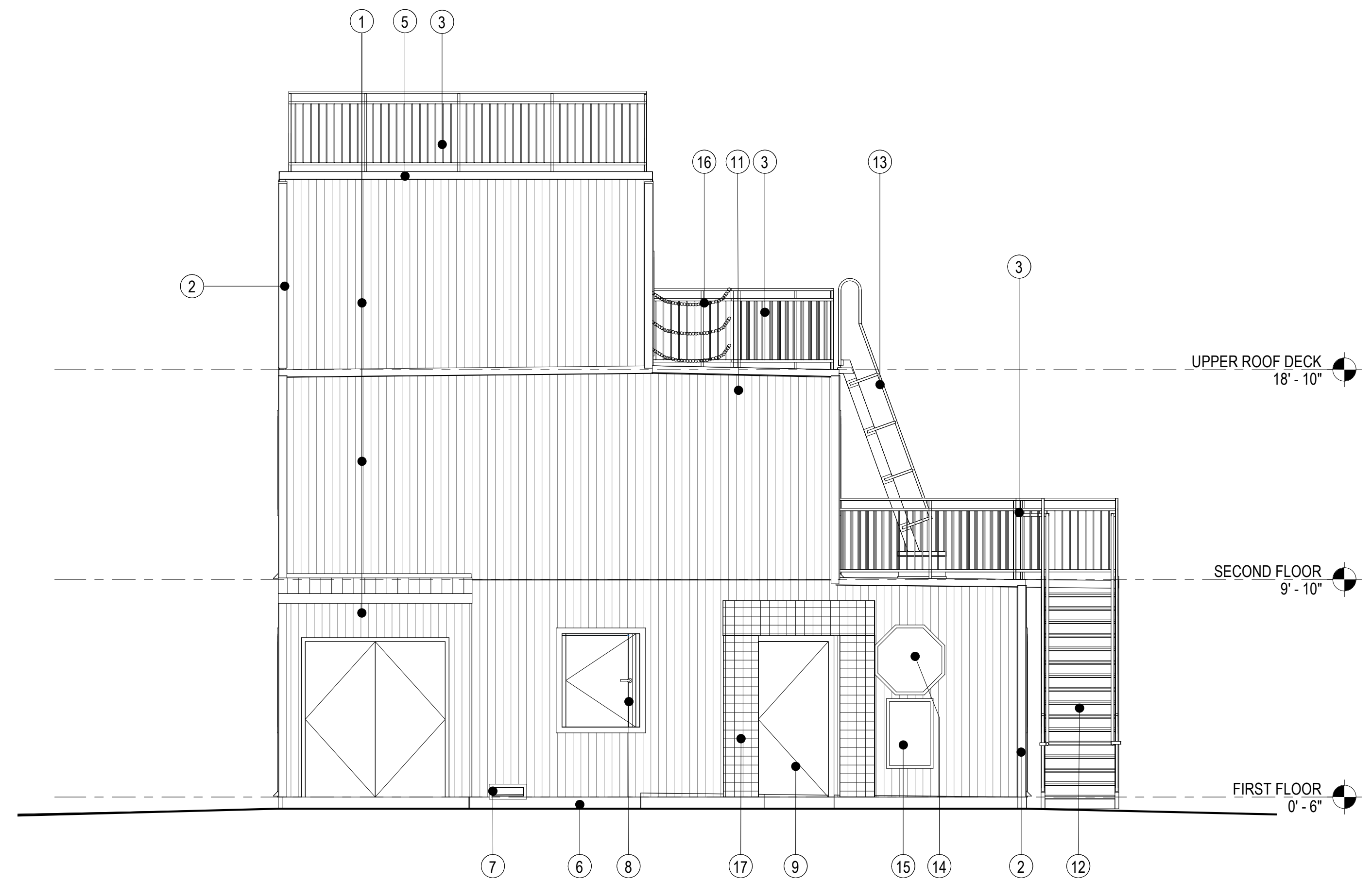
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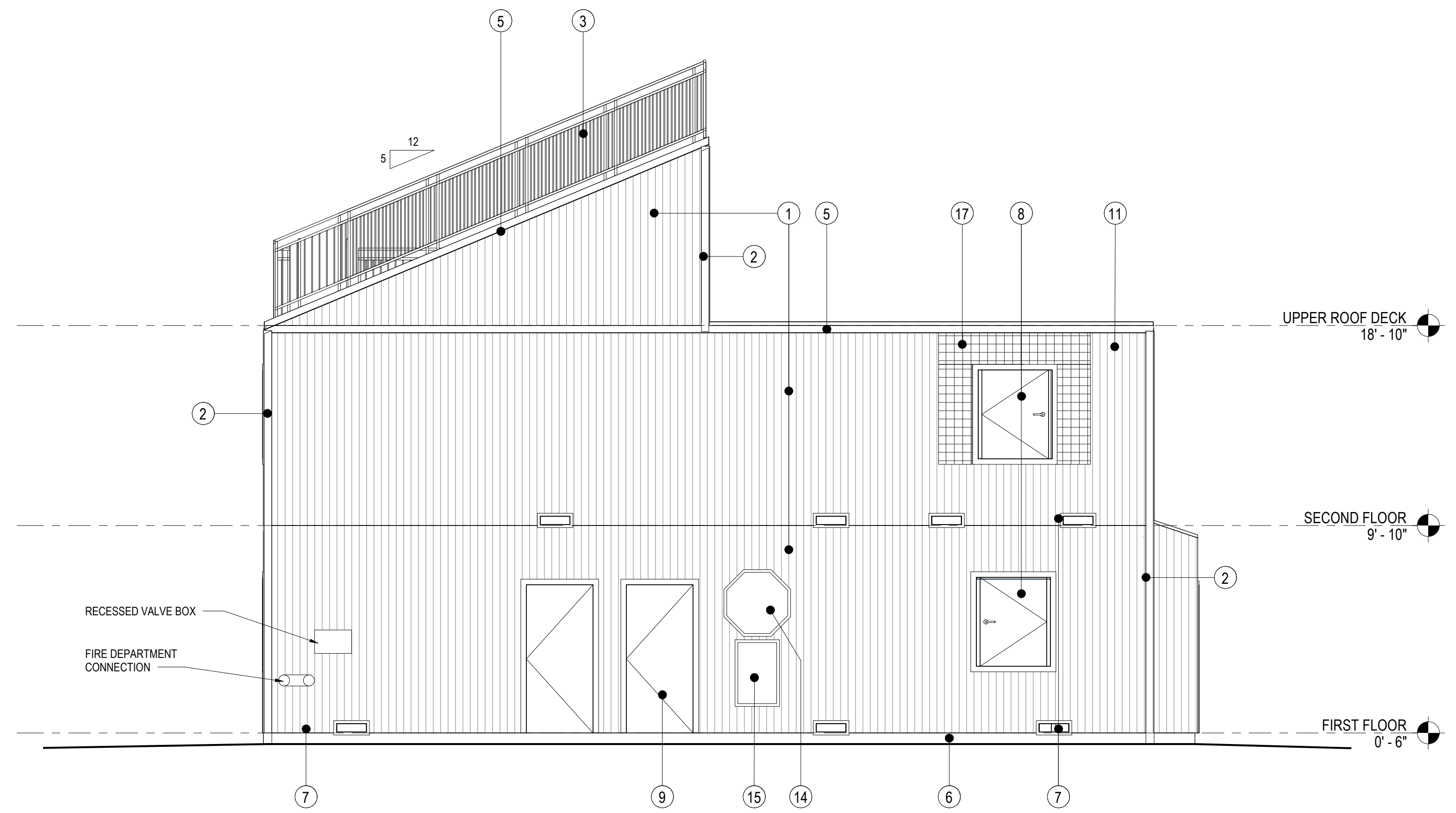
1 NORTH ELEVATION
A2.1 1/4" = 1'-0"



2 EAST ELEVATION
A2.1 1/4" = 1'-0"



3 SOUTH ELEVATION
A2.1 1/4" = 1'-0"



4 WEST ELEVATION
A2.1 1/4" = 1'-0"

EXTERIOR ELEVATION LEGEND	
TAG	ELEVATION NOTE
1	VERTICAL METAL PANEL SYSTEM
2	PREFORMED METAL CORNER TRIM BY METAL PANEL SIDING SYSTEM MANUFACTURER
3	GALVANIZED METAL PIPE RAIL
4	ROOFING MATERIAL - CLASS "A" FIRE RATING
5	PREFORMED METAL ROOF EDGE TRIM
6	EXPOSED CONCRETE FOUNDATION
7	STAINLESS STEEL DRAINAGE SCUPPER - SEE DETAILS
8	GALVANIZED STEEL WINDOW/SHUTTER AND FRAME ASSEMBLY
9	GALVANIZED STEEL DOOR AND FRAME ASSEMBLY
10	GALVANIZED METAL LADDER PANEL OVER METAL SIDING SYSTEM
11	GALVANIZED 4'H X 8'W METAL SMOKE RELIEF VENT. INSTALL 8 VENTS IN EACH BURN ROOM. ALL VENTS TO INCLUDE METAL INSECT SCREEN
12	GALVANIZED STEEL STAIR ASSEMBLY
13	GALVANIZED STEEL SHIPS LADDER ASSEMBLY
14	NFPA SIGN, SEE DETAIL
15	LIVE FIRE TRAINING USAGE SIGN, SEE DETAIL
16	GALVANIZED SAFETY CHAIN WITH EYE BOLT ANCHORS AND RELEASABLE HASP ON ONE SIDE
17	METAL CLAD EXTERIOR THERMAL LINER PANEL. PLACE AT PERIMETER OF ALL BURN ROOM DOOR AND WINDOW OPENINGS.
18	PLYWOOD CHOP OUT PANEL, SEE DETAIL

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OVERALL EXTERIOR ELEVATIONS

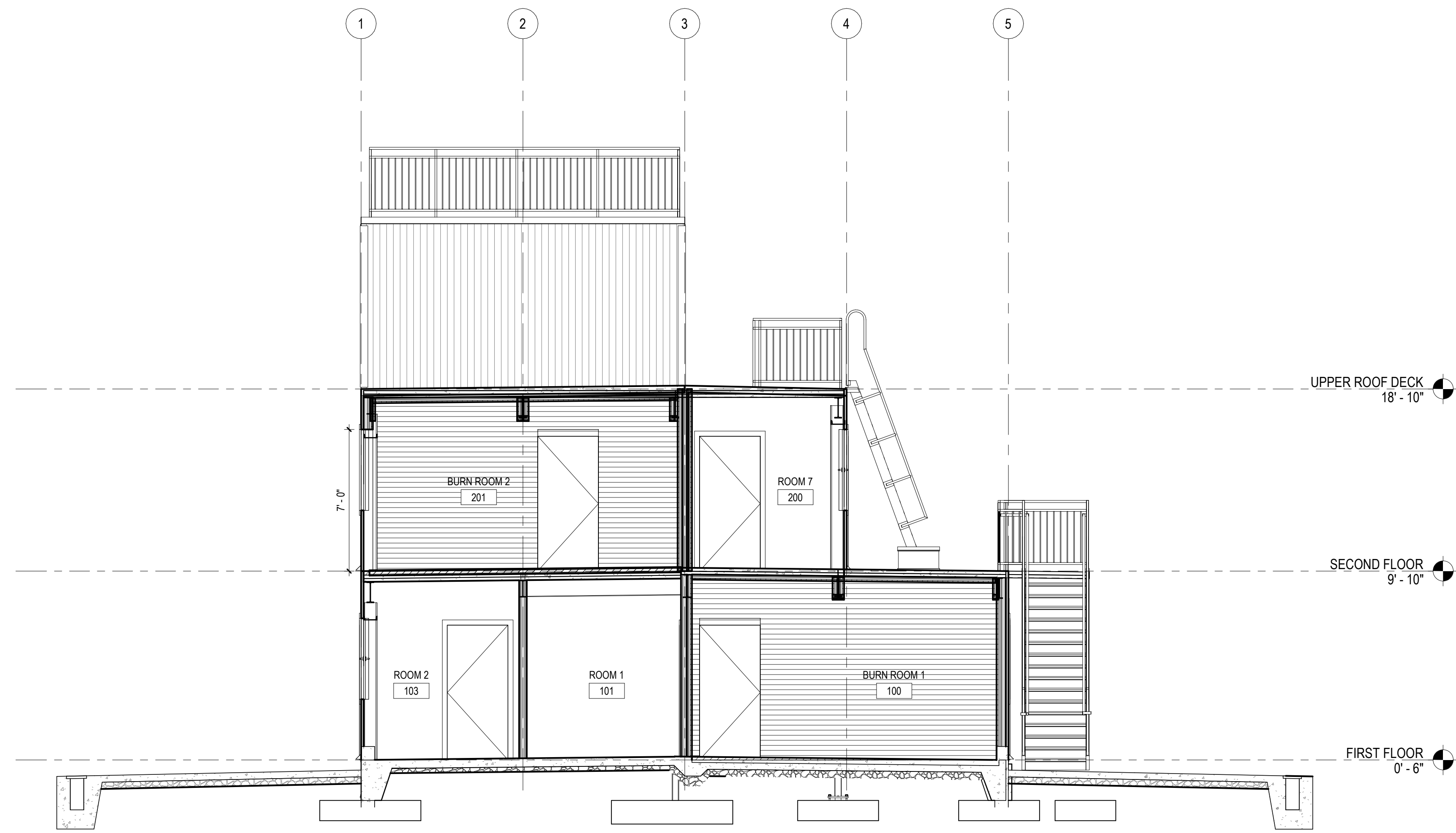
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FILENAME:

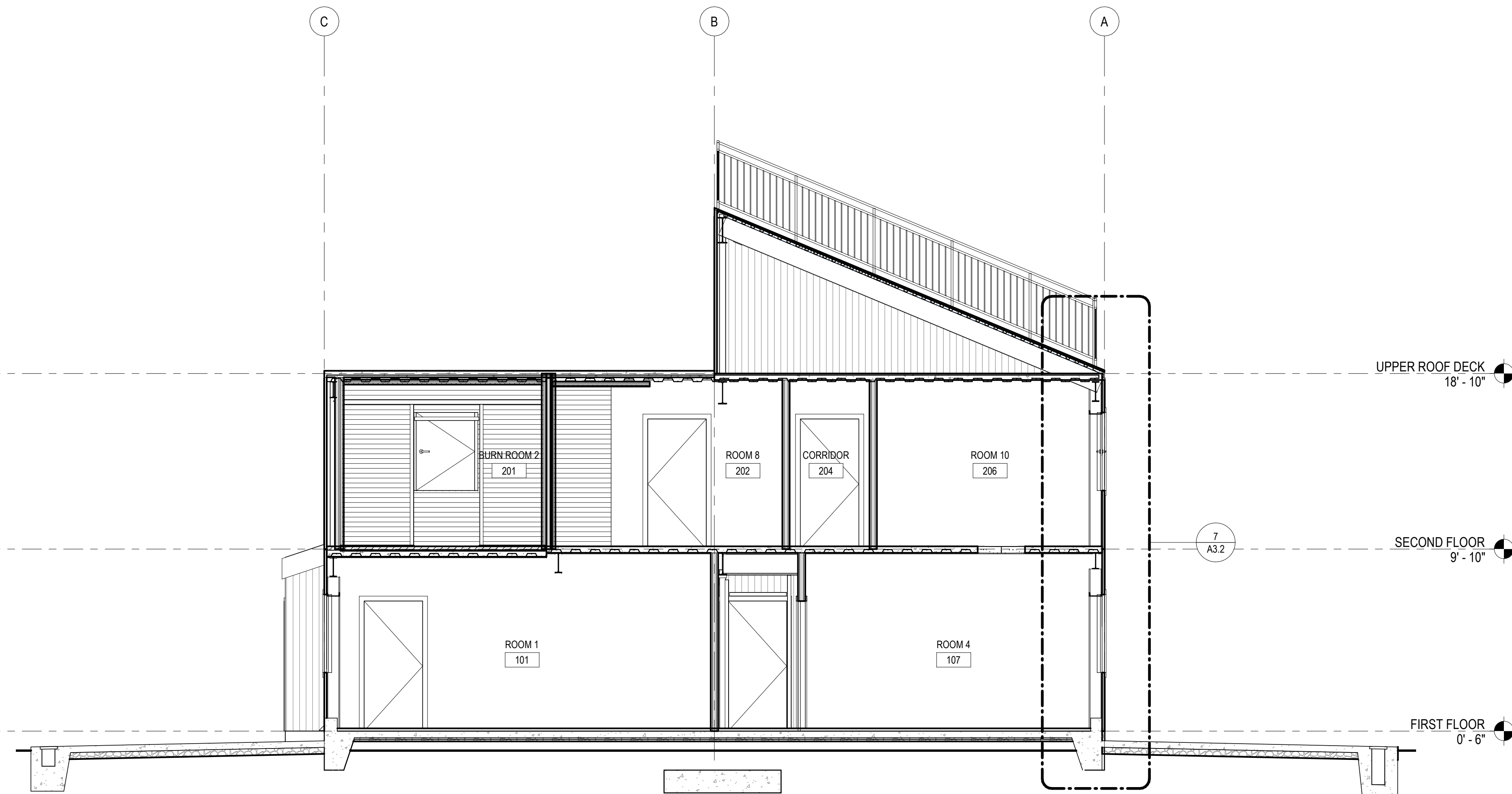
DATE: 5/16/2022

PROJECT 3461

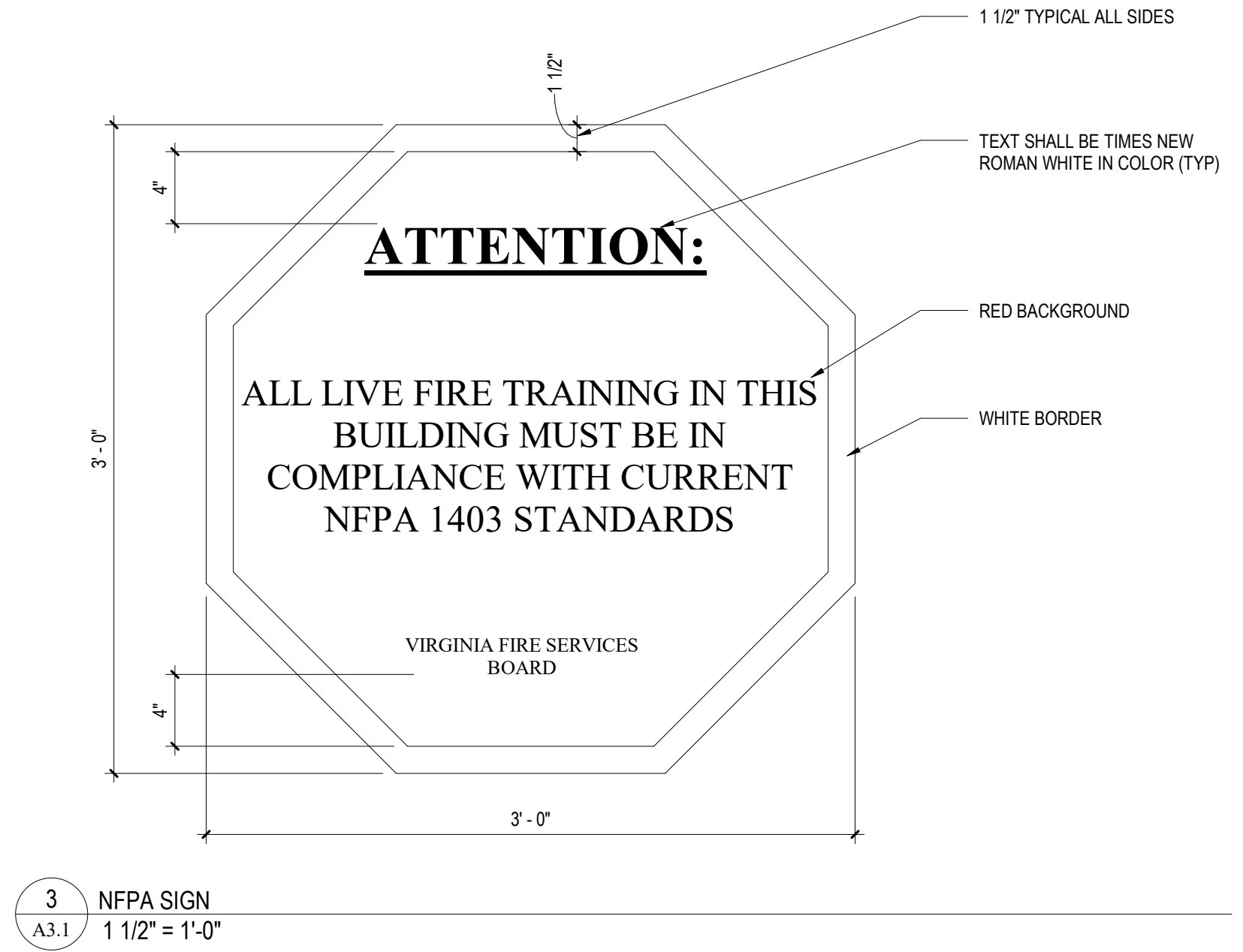
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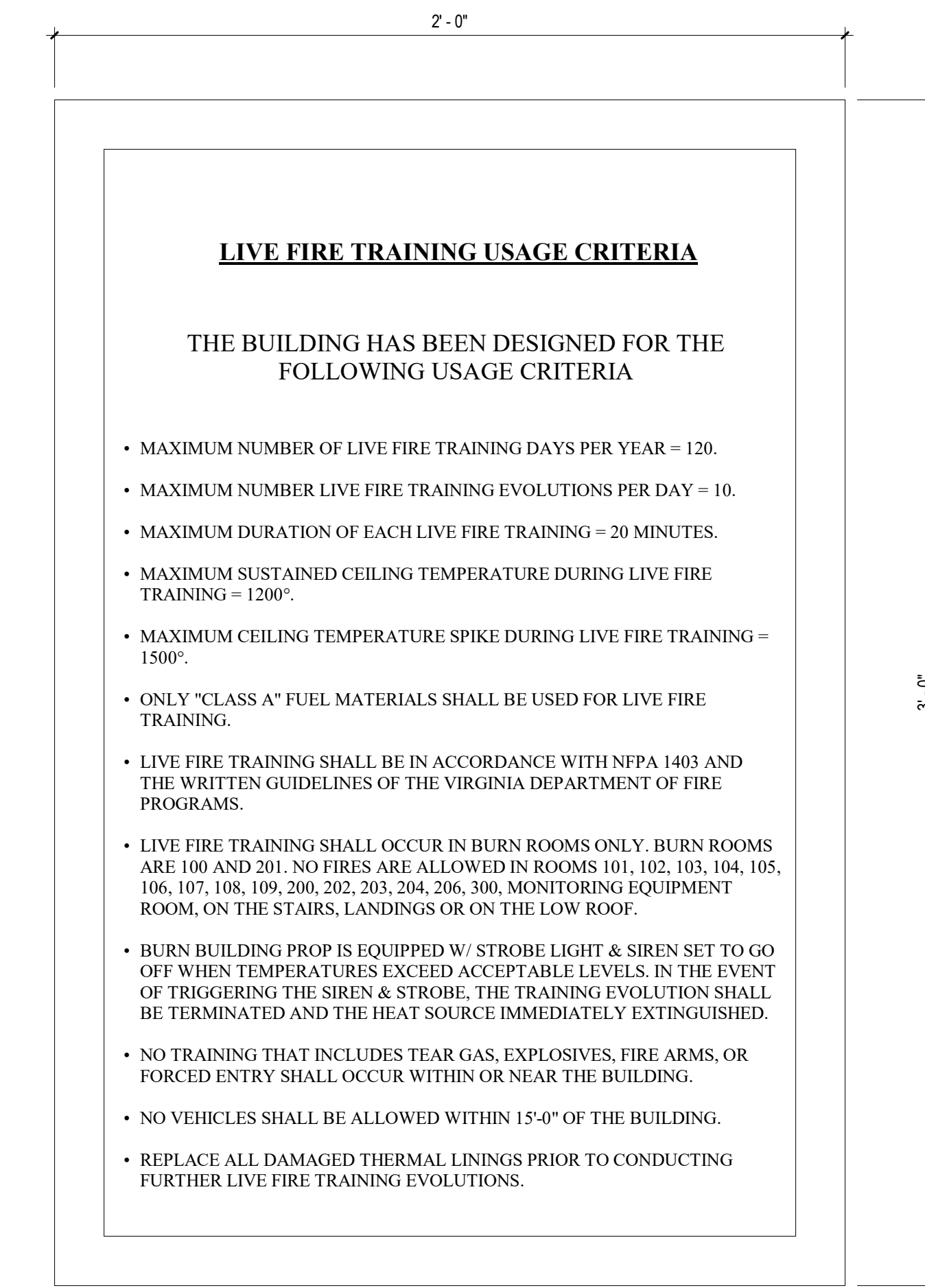
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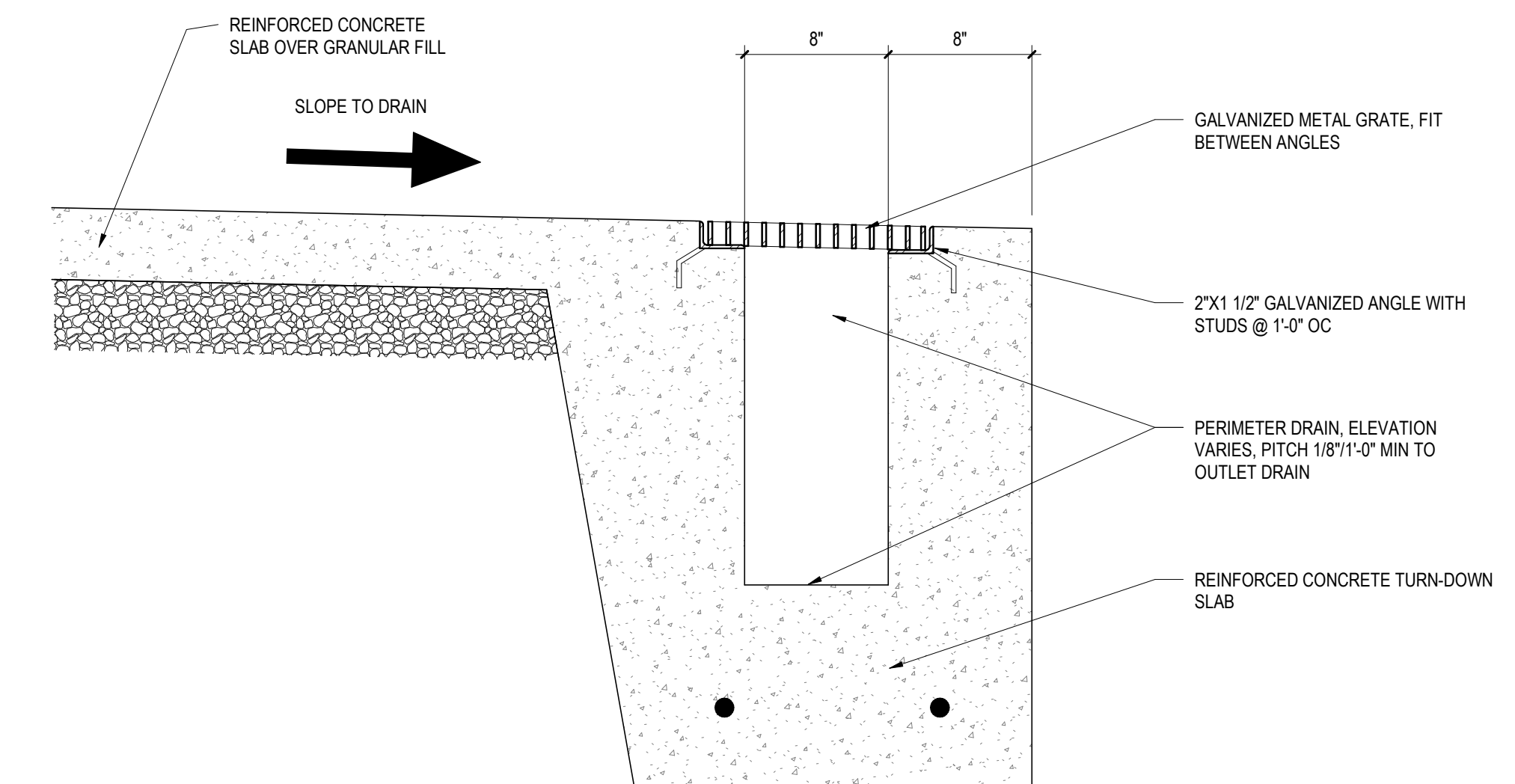
2 BUILDING SECTION
A3.1 1/4" = 1'-0"



3 NFPA SIGN
A3.1 1 1/2" = 1'-0"



4 LIVE FIRE TRAINING SIGN
A3.1 3" = 1'-0"



5 TYPICAL PERIMETER DRAIN DETAIL
A3.1 1 1/2" = 1'-0"

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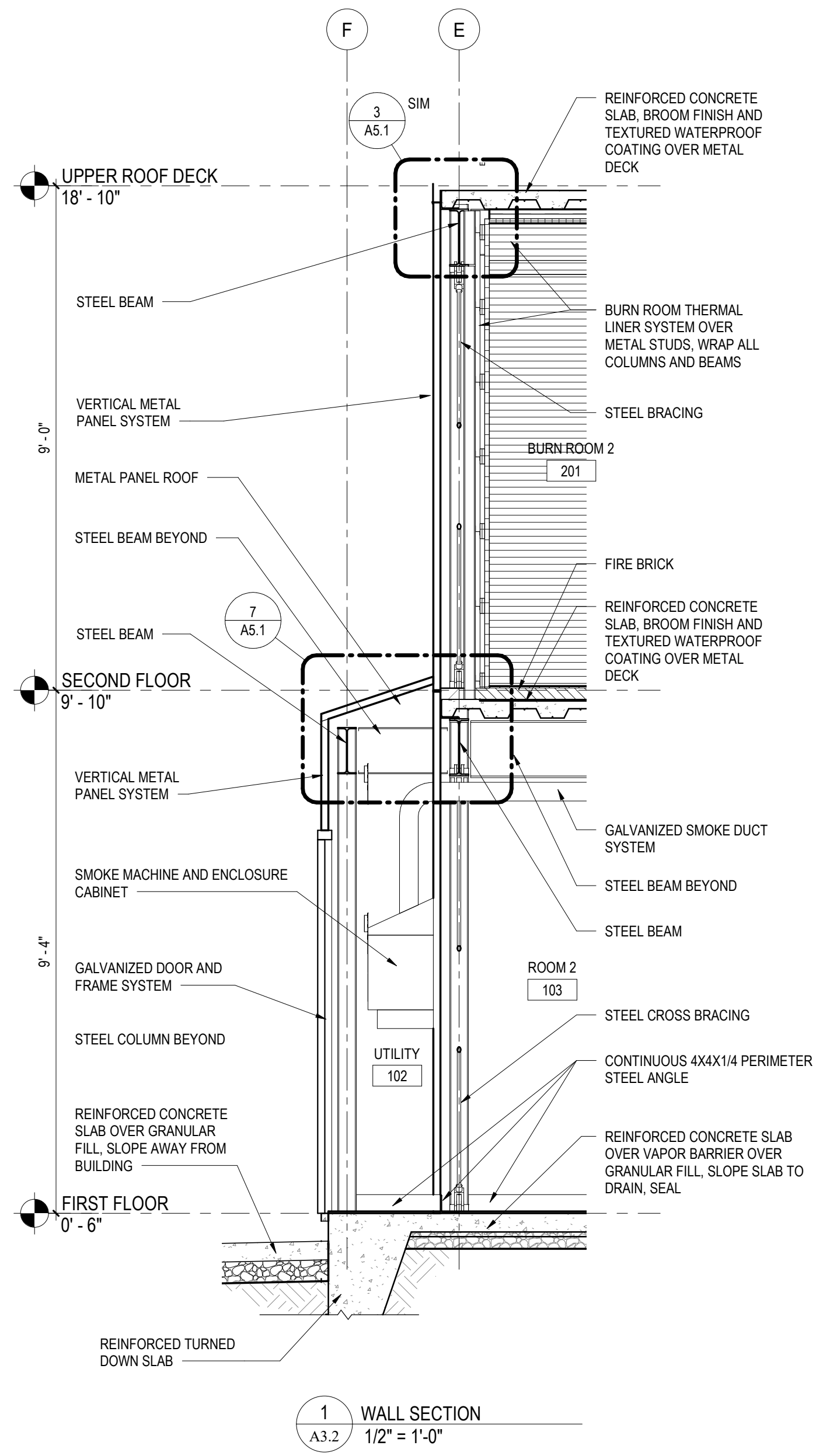
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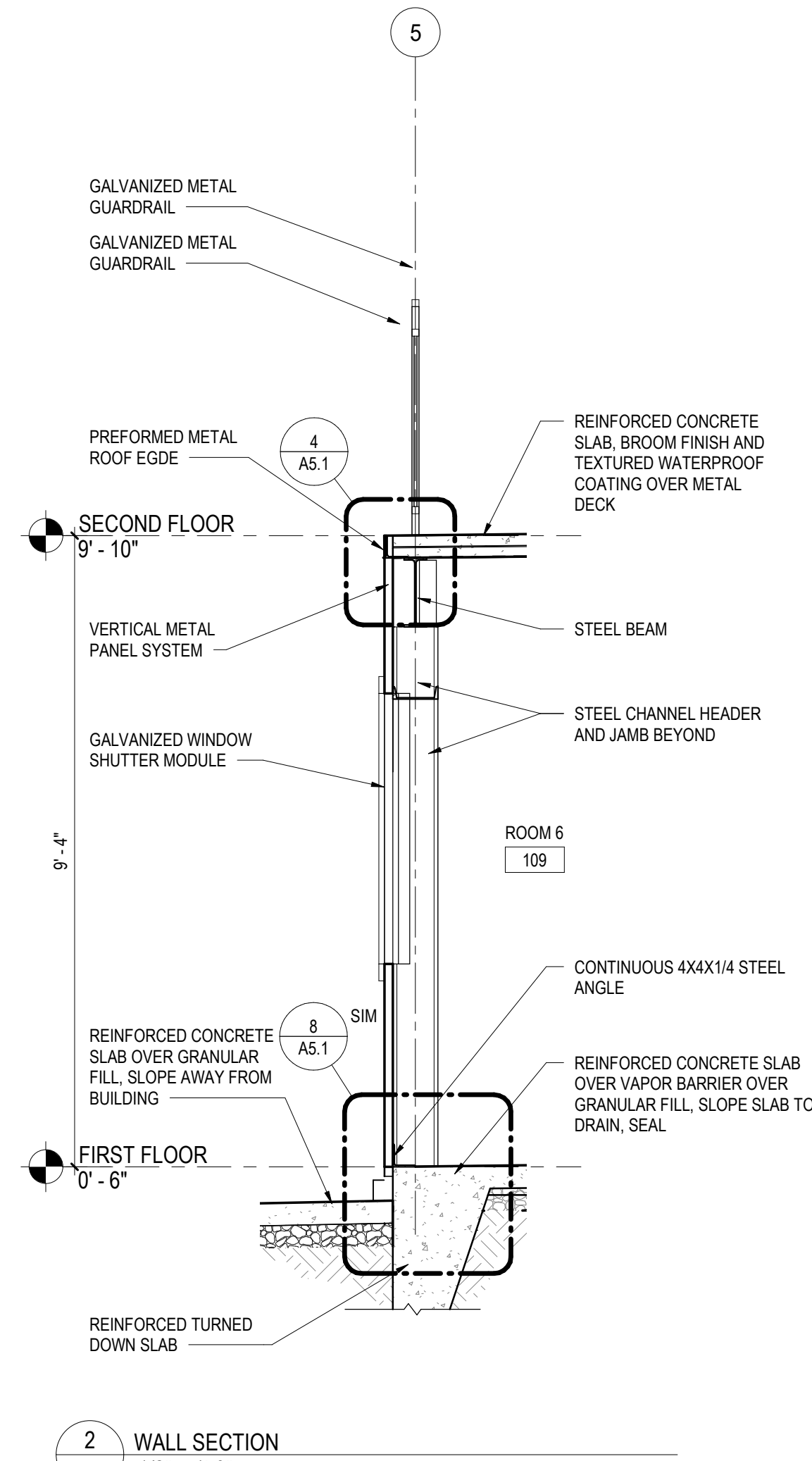


BUILDING SECTIONS
 PLOT SCALE: As indicated
 FILENAME:
 DATE: 5/16/2022

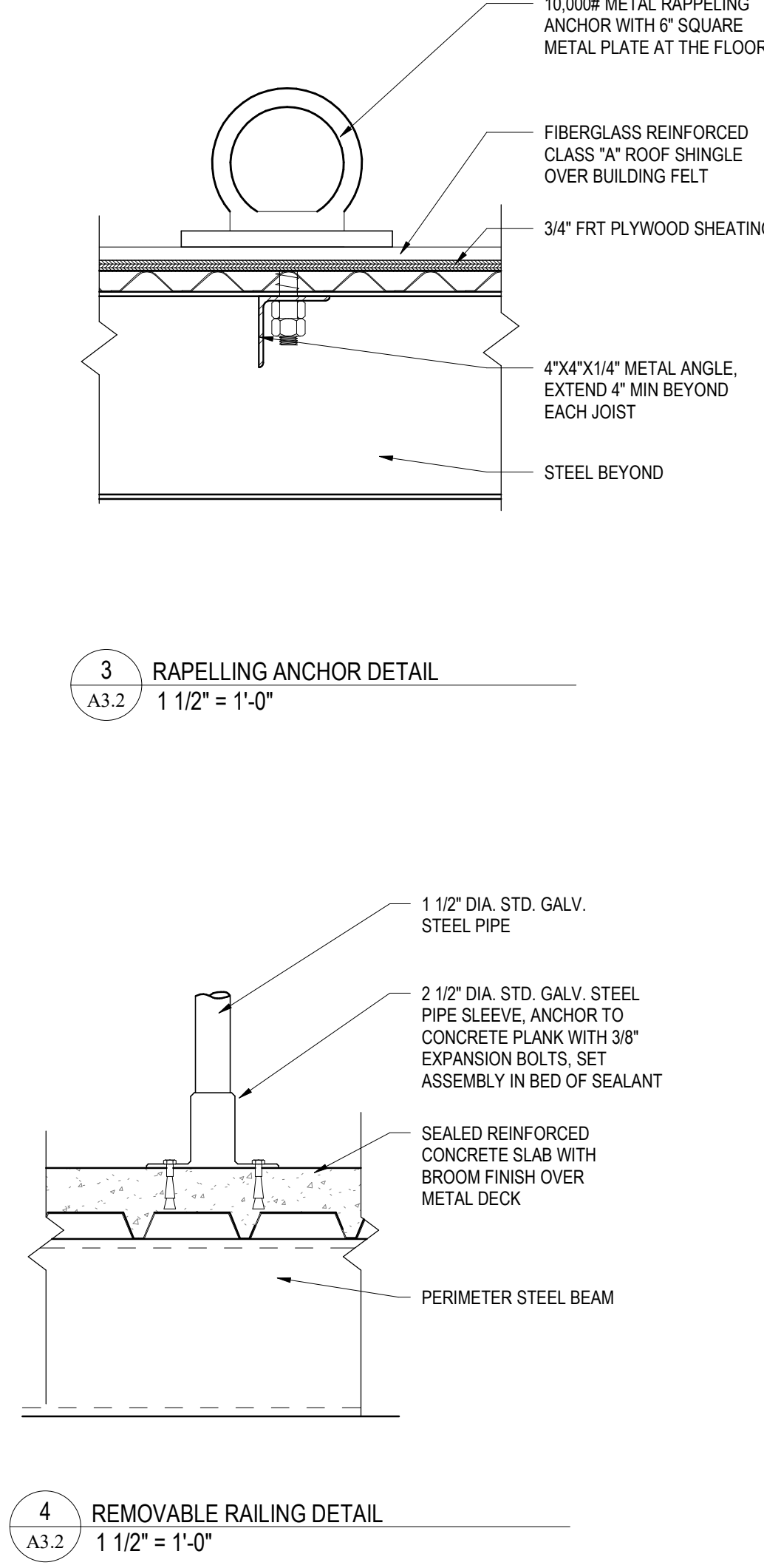
PROJECT
 3461
A3.1



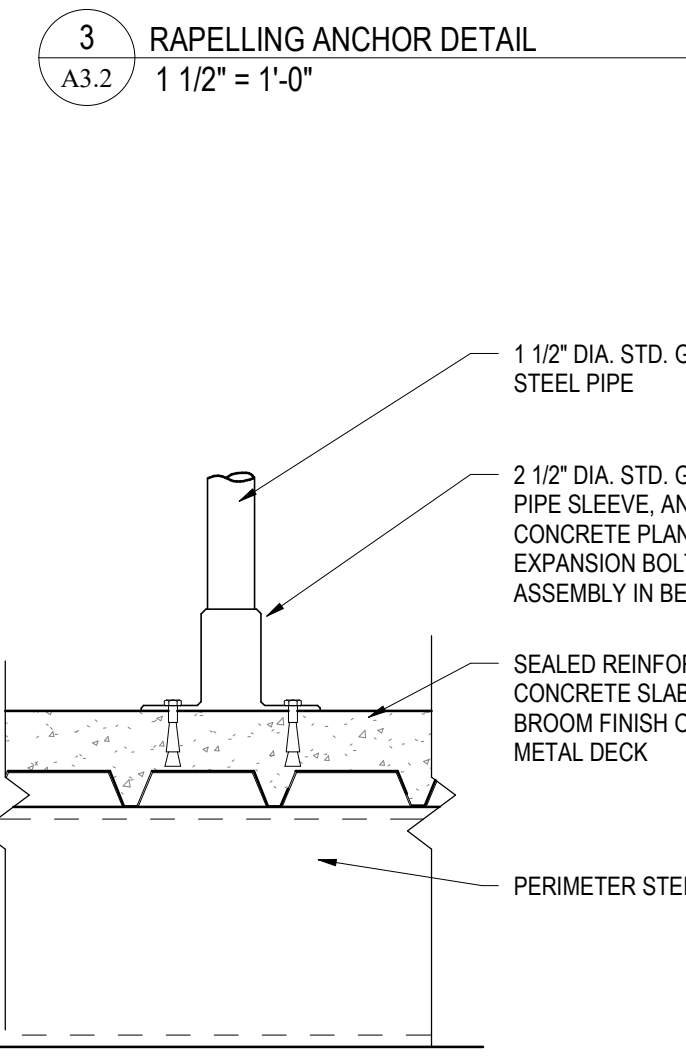
1 WALL SECTION
A3.2 1/2" = 1'-0"



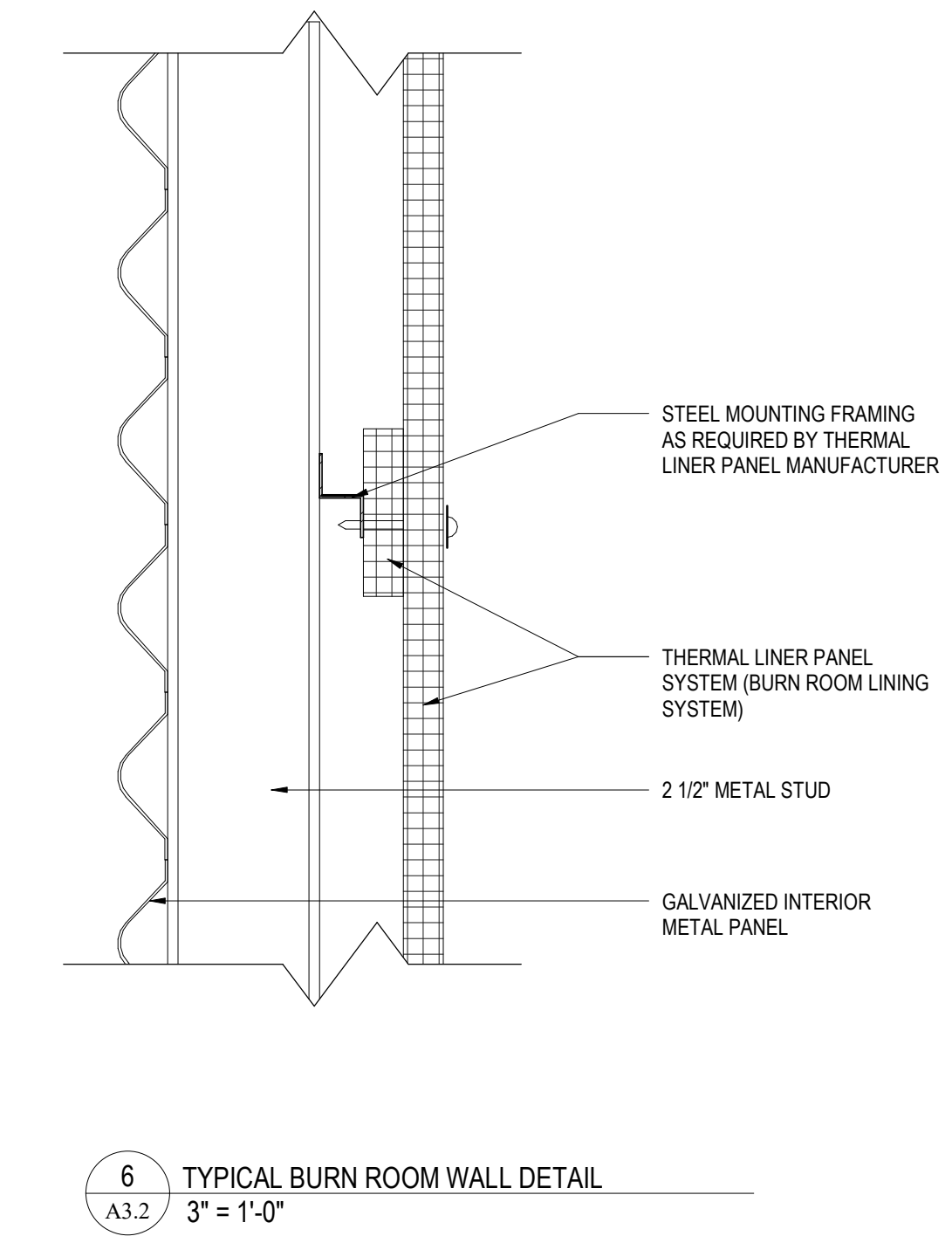
2 WALL SECTION
A3.2 1/2" = 1'-0"



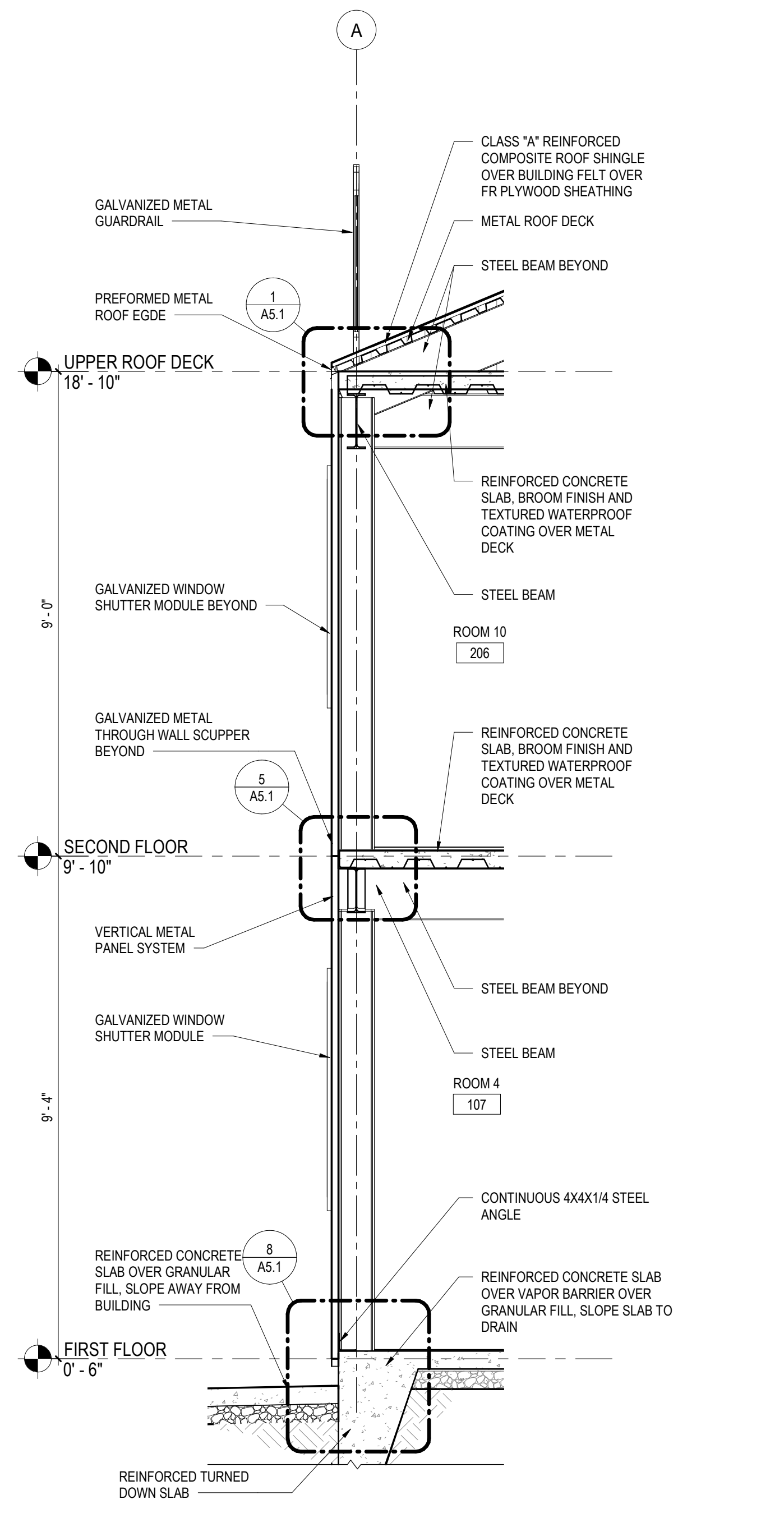
4 REMOVABLE RAILING DETAIL
A3.2 1 1/2" = 1'-0"



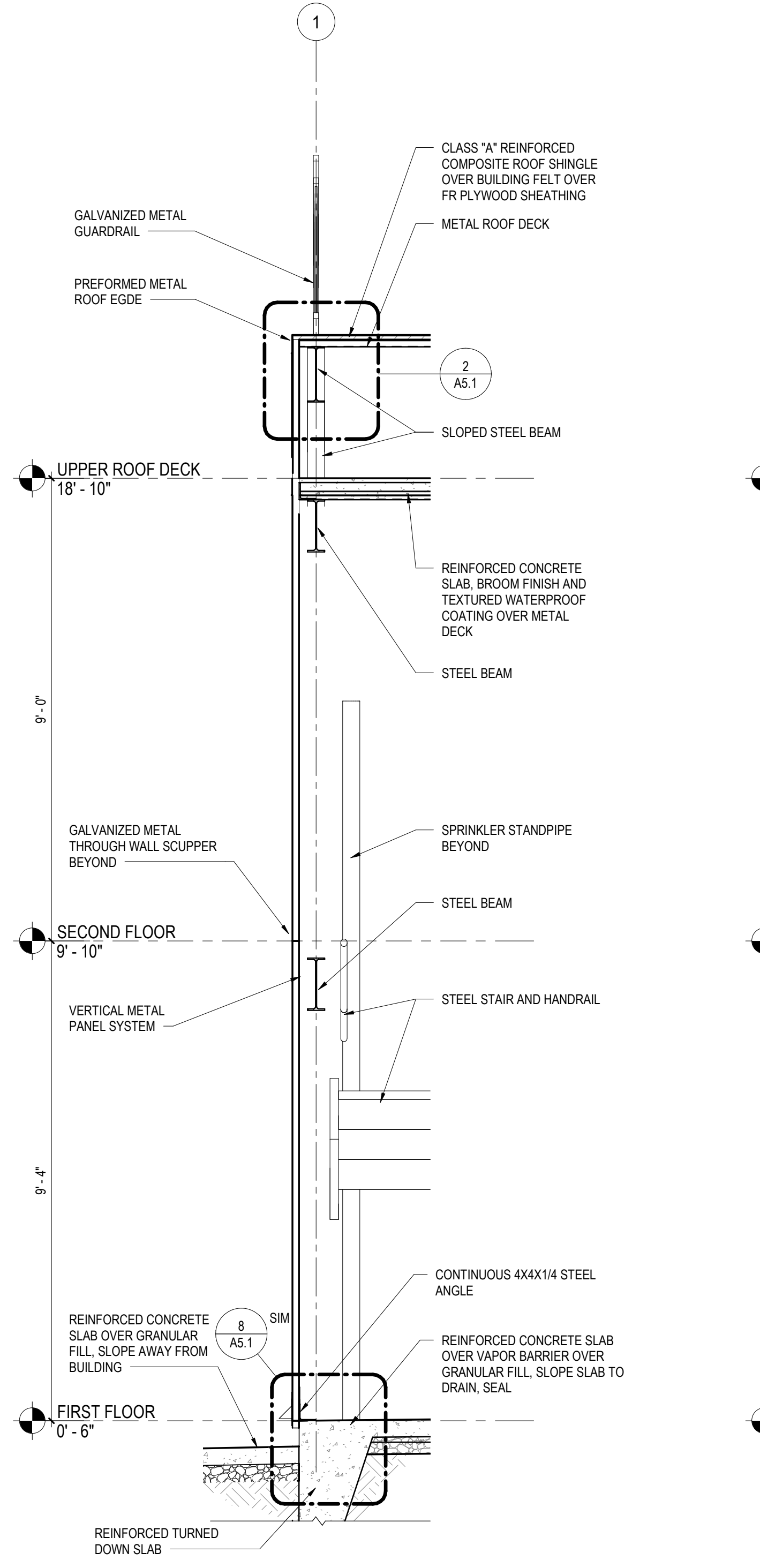
3 RAPELING ANCHOR DETAIL
A3.2 1 1/2" = 1'-0"



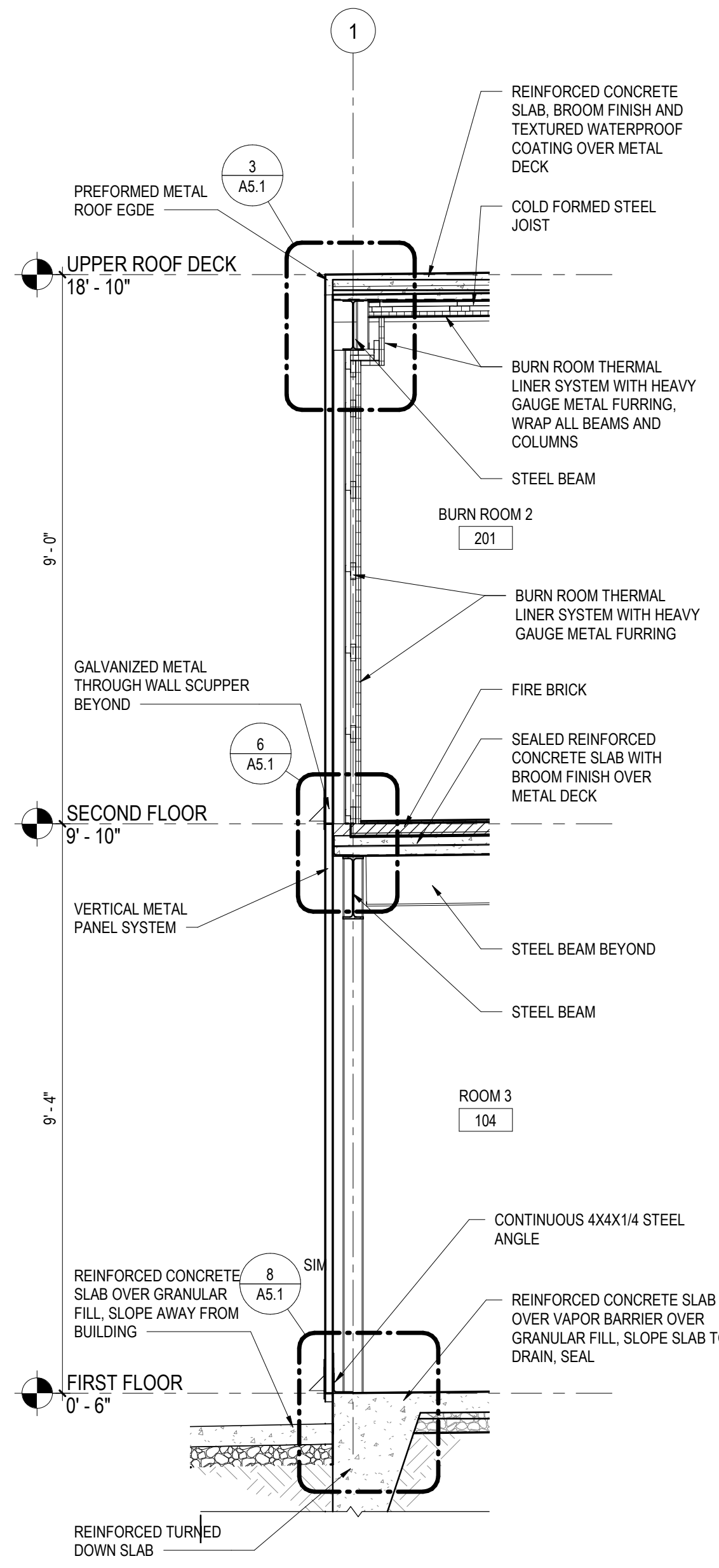
6 TYPICAL BURN ROOM WALL DETAIL
A3.2 3" = 1'-0"



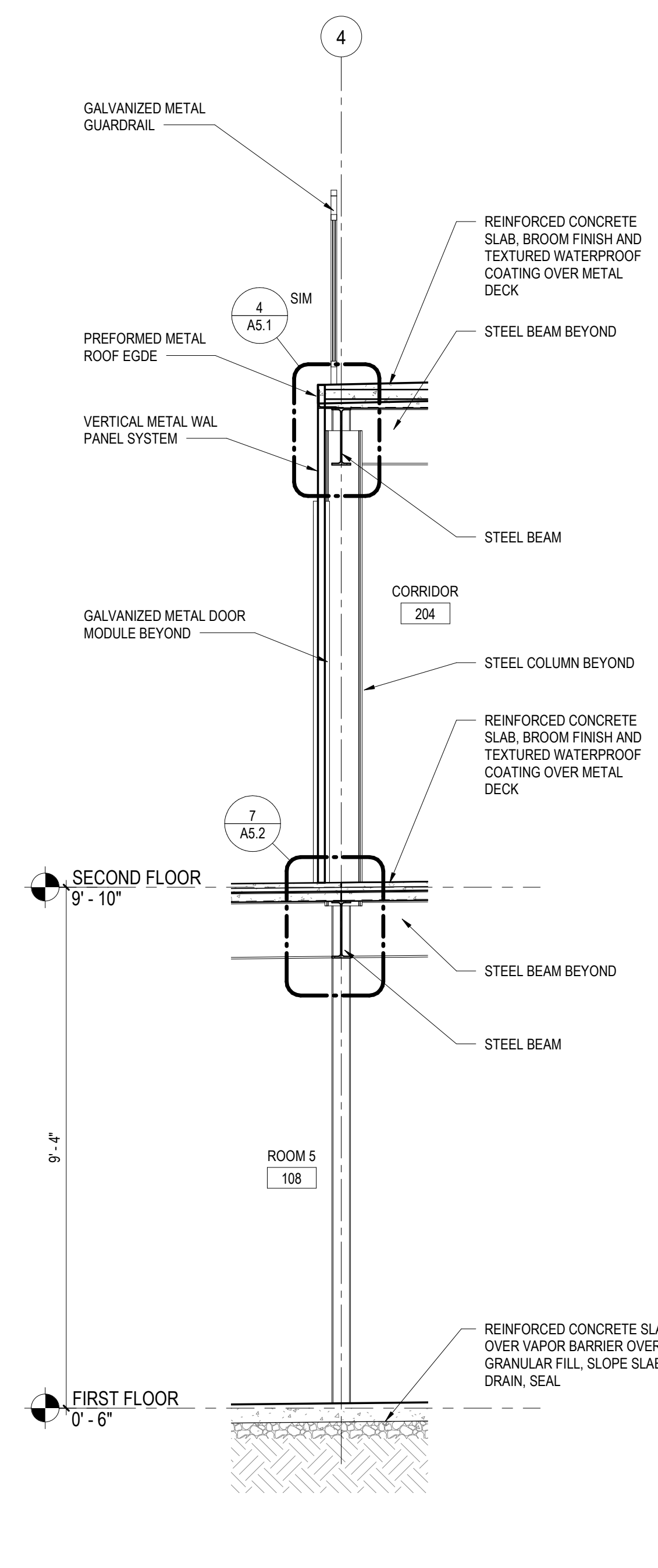
7 WALL SECTION
A3.2 1/2" = 1'-0"



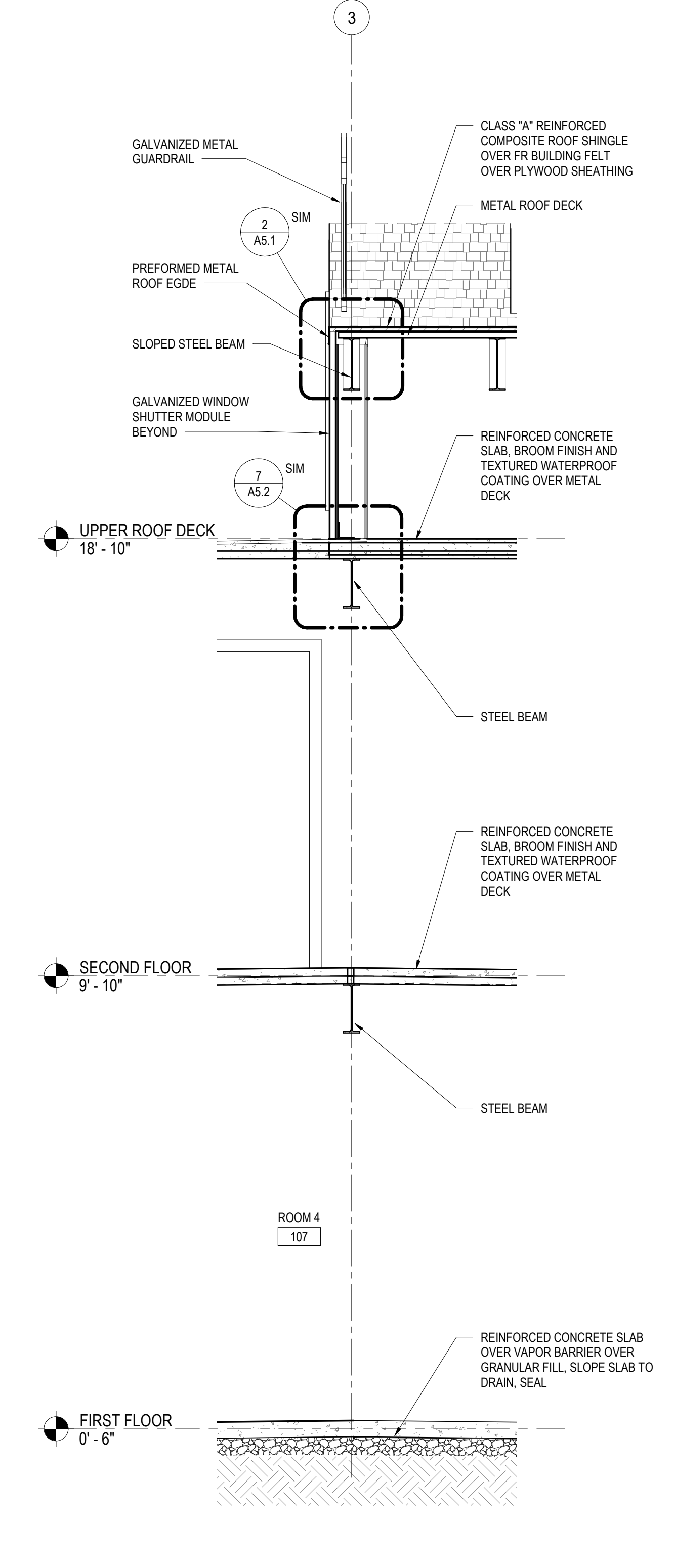
8 WALL SECTION
A3.2 1/2" = 1'-0"



9 WALL SECTION
A3.2 1/2" = 1'-0"



10 WALL SECTION
A3.2 1/2" = 1'-0"



11 WALL SECTION
A3.2 1/2" = 1'-0"

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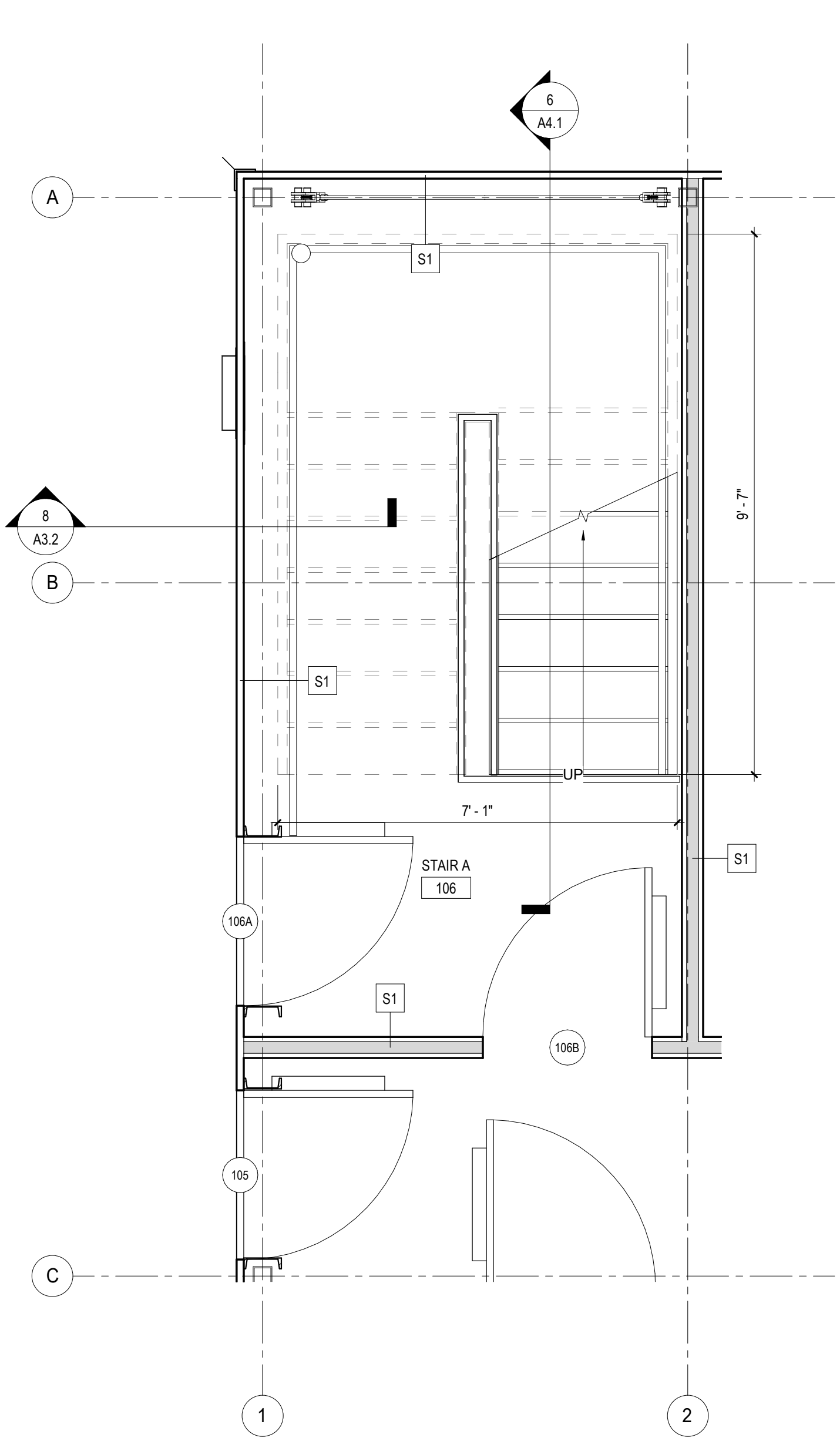
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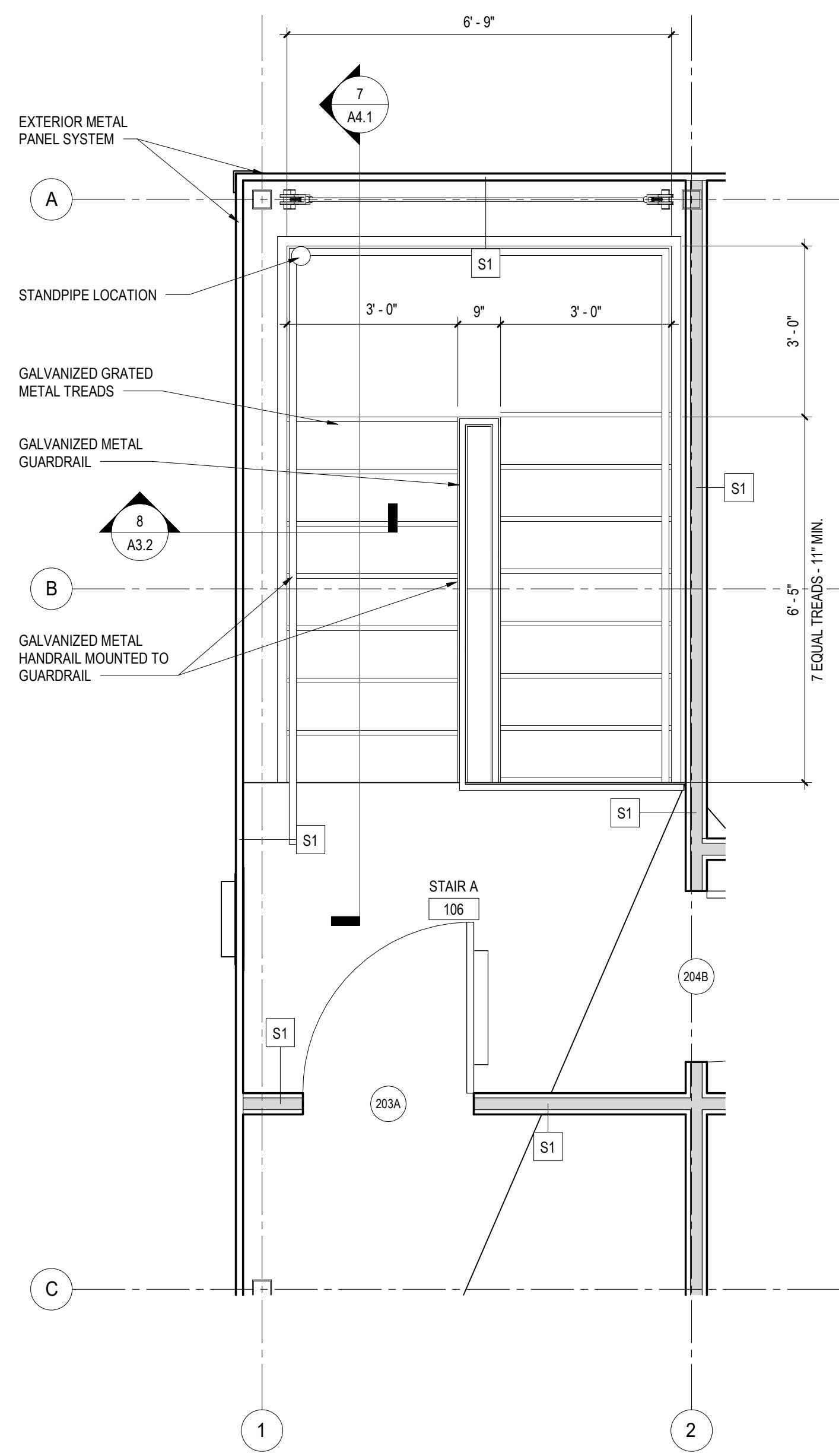
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 FLUVANNA COUNTY
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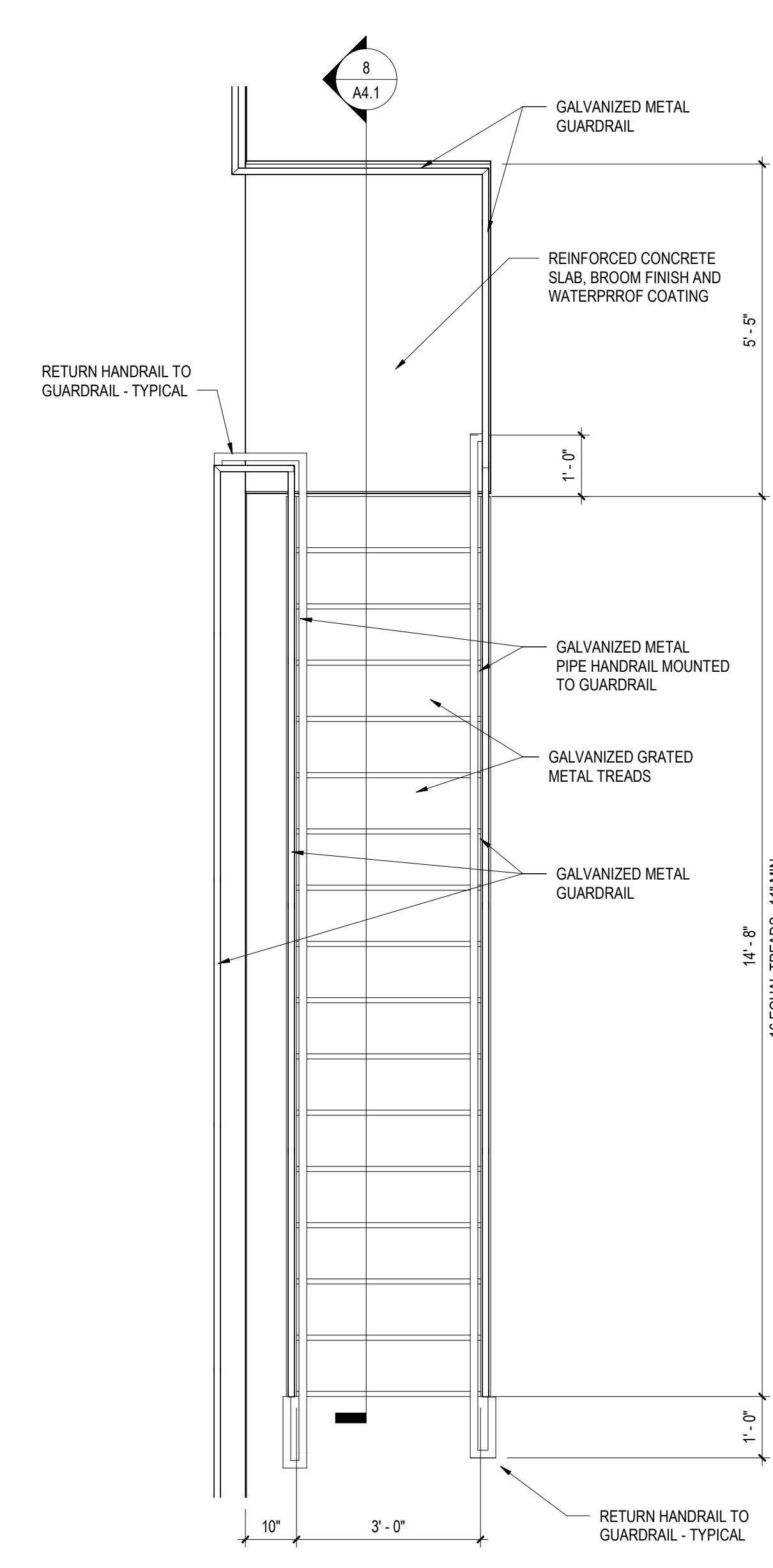
WALL SECTIONS	PROJECT 3461 A3.2
PLOT SCALE As indicated	
FILENAME:	
DATE:	



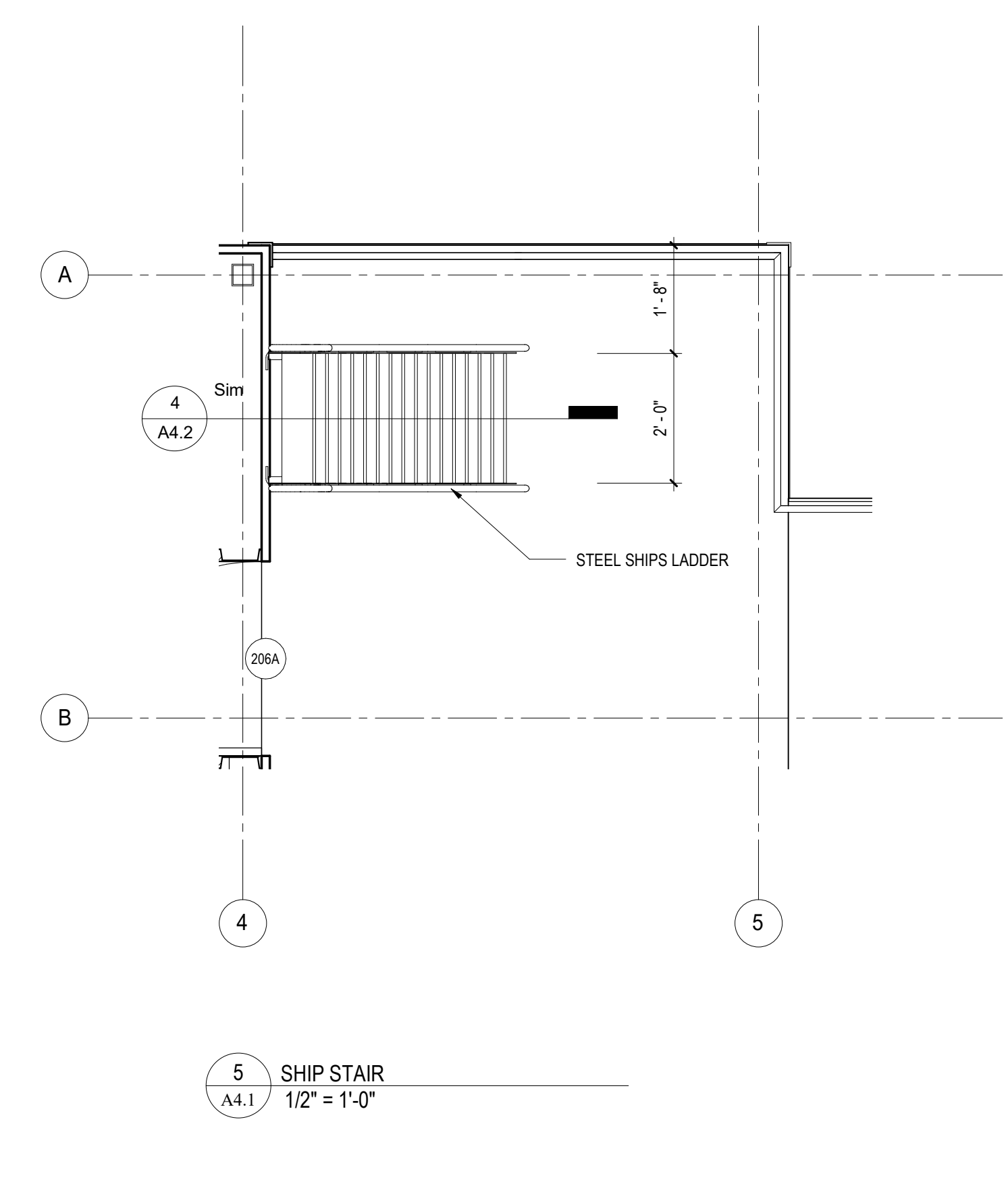
1 STAIR A FIRST FLOOR PLAN
A4.1 1/2" = 1'-0"



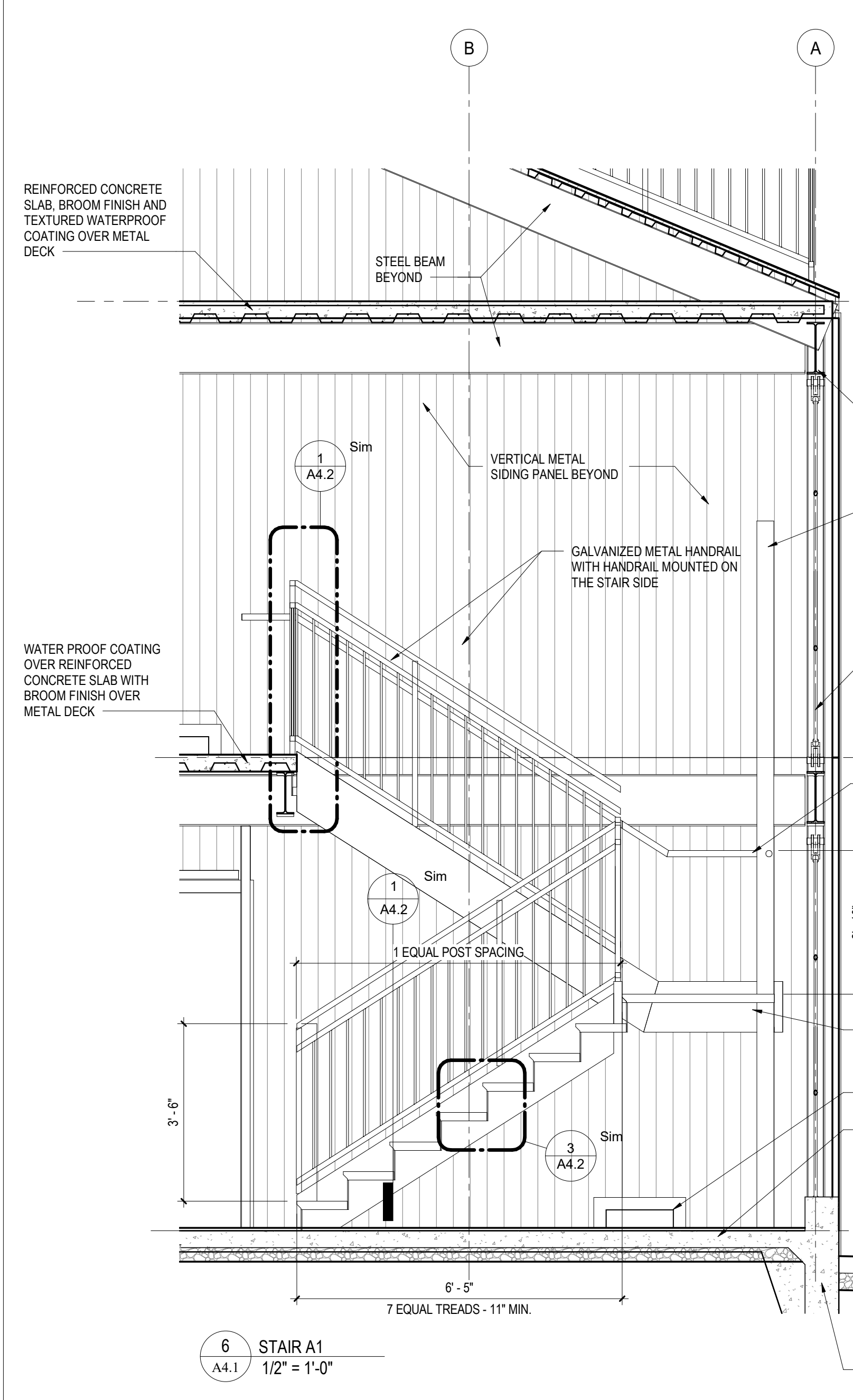
2 STAIR A SECOND FLOOR PLAN
A4.1 1/2" = 1'-0"



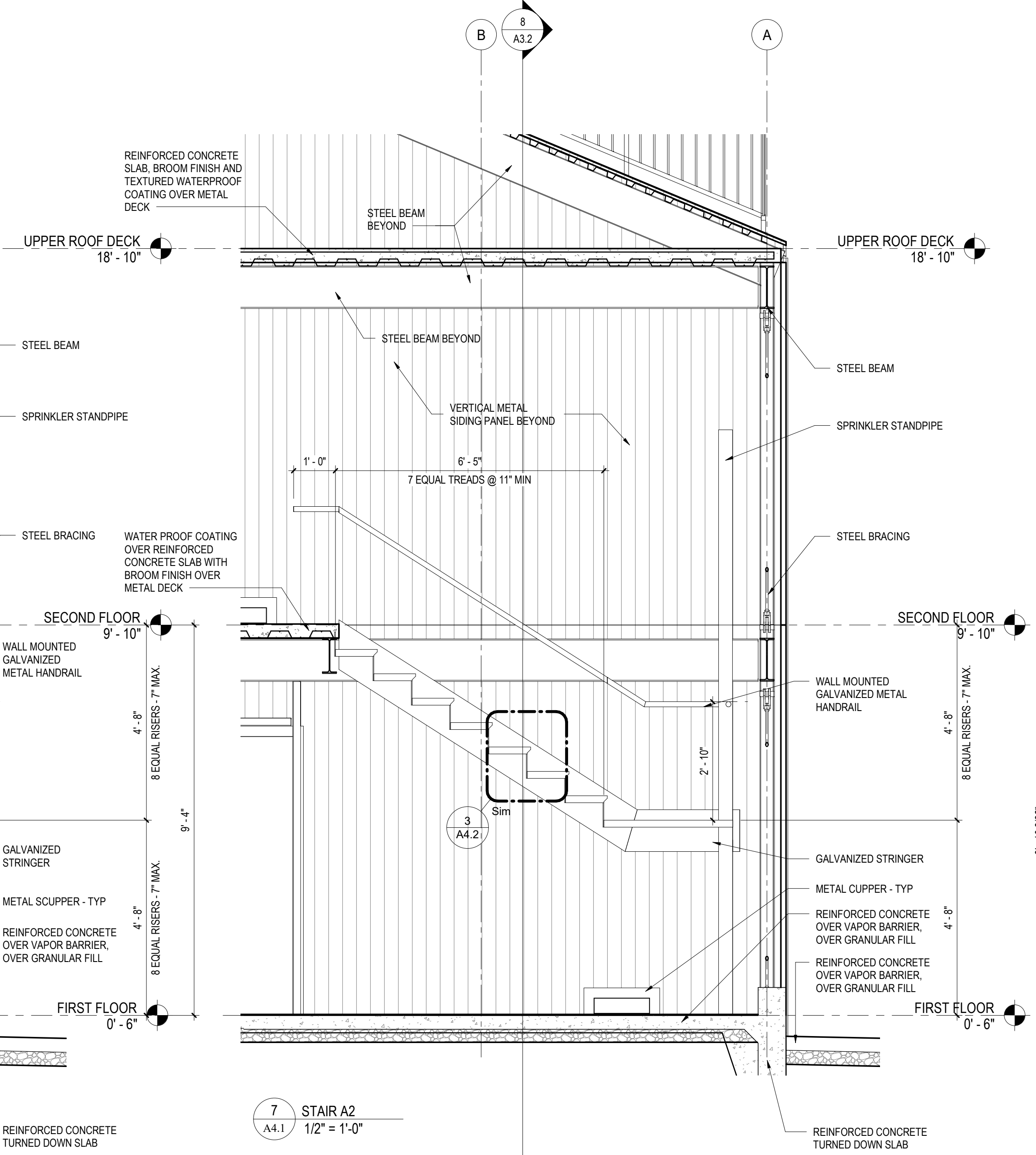
4 STAIR B SECOND FLOOR PLAN
A4.1 1/2" = 1'-0"



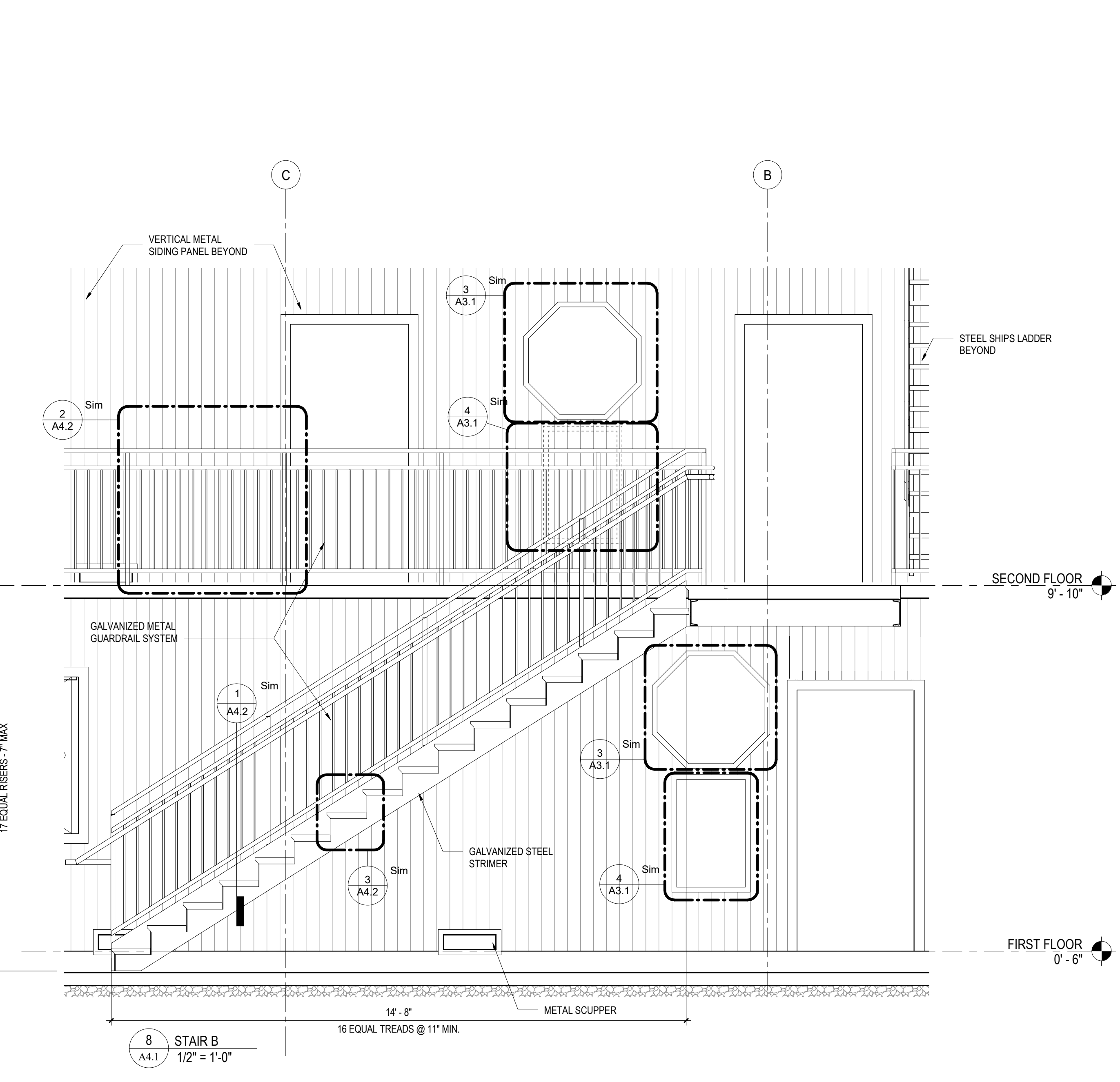
5 SHIP STAIR
A4.1 1/2" = 1'-0"



6 STAIR A1
A4.1 1/2" = 1'-0"



7 STAIR A2
A4.1 1/2" = 1'-0"



8 STAIR B
A4.1 1/2" = 1'-0"

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LARGE SCALE PLANS

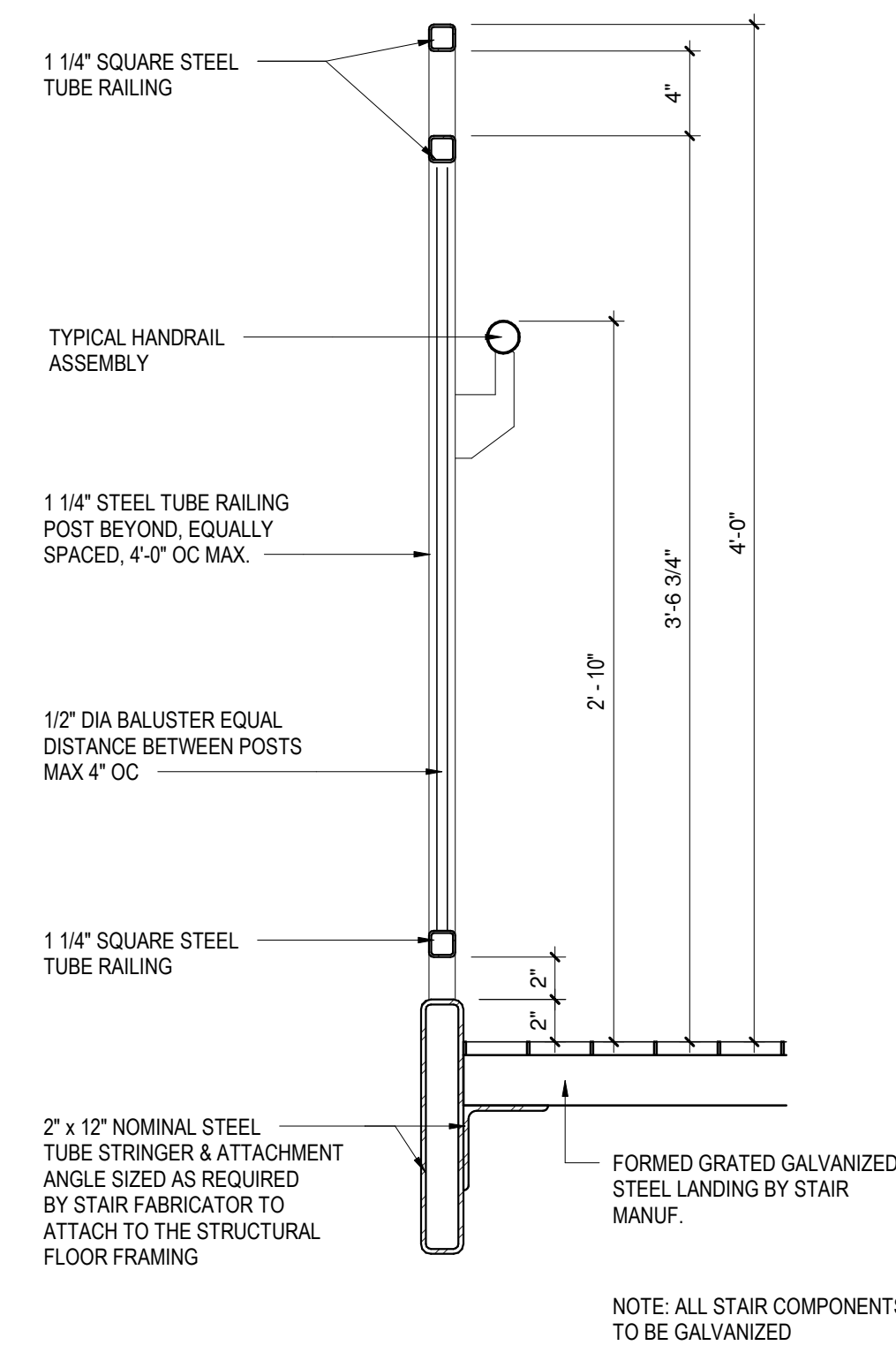
PROJECT 3461

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

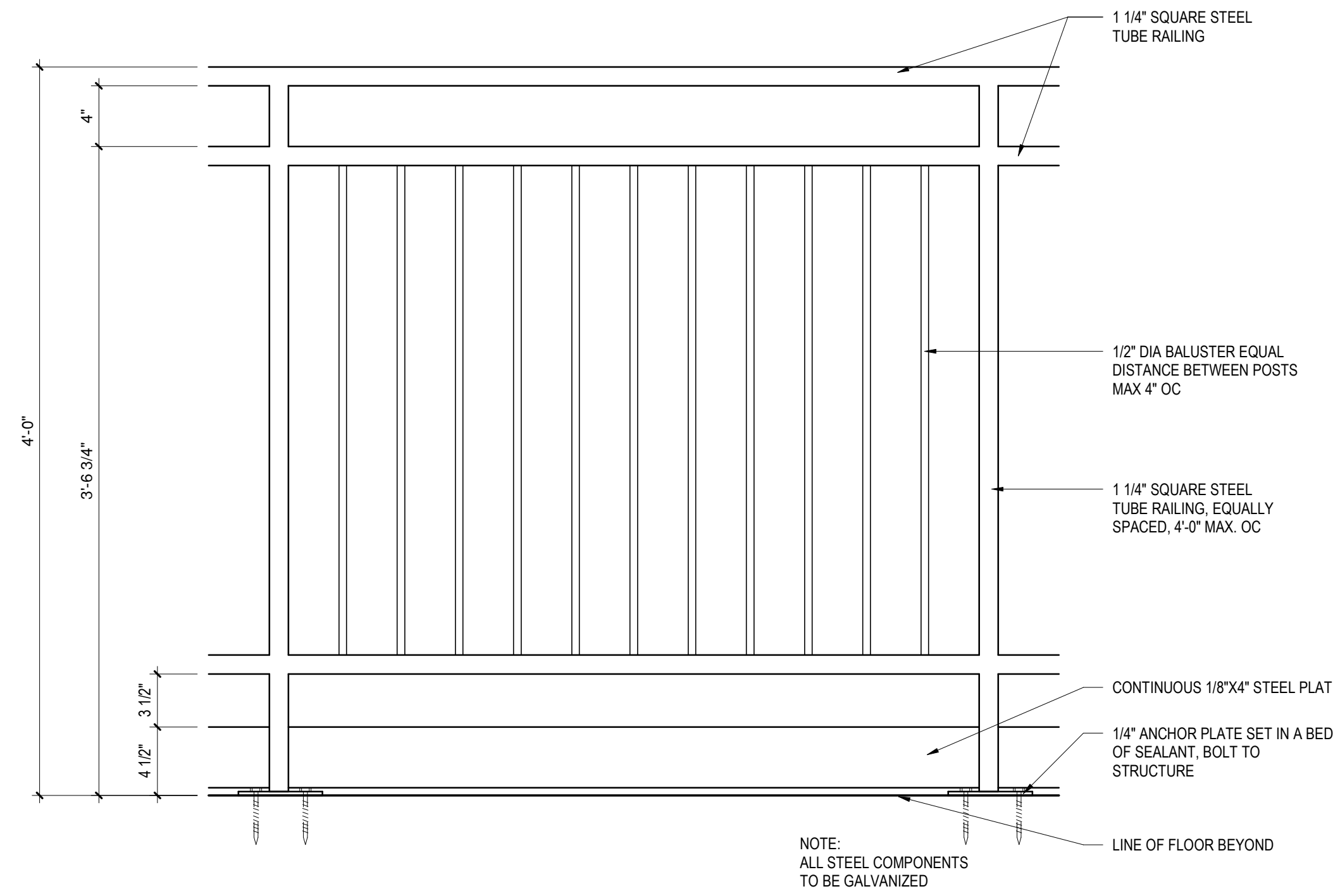
FILENAME:

DATE: 5/16/2022

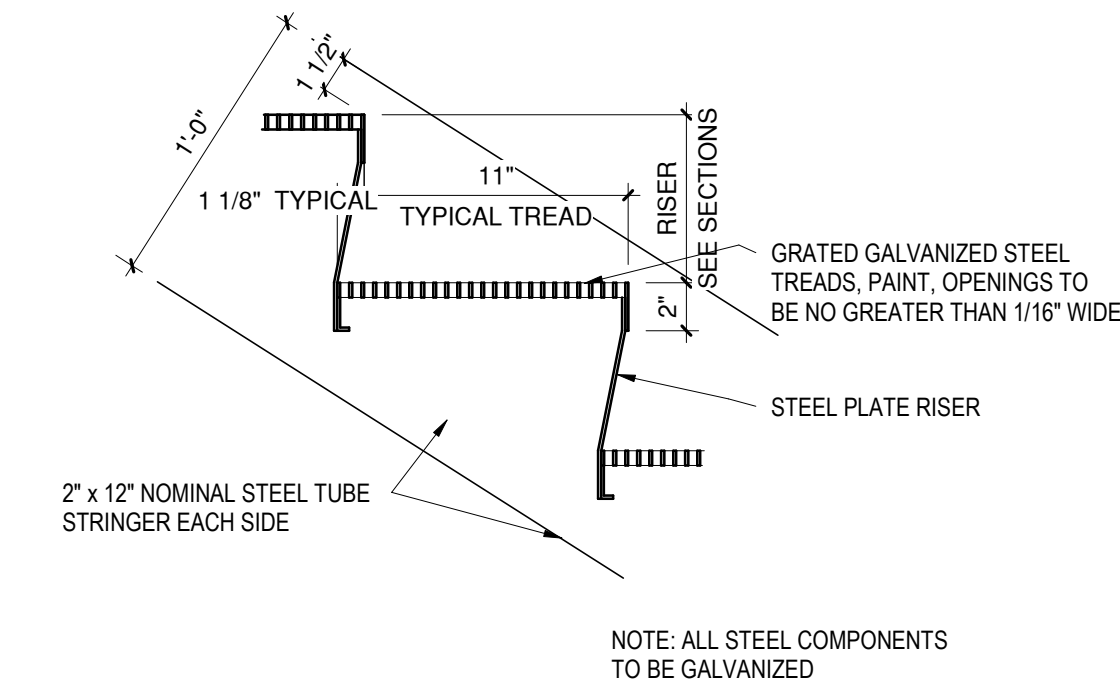
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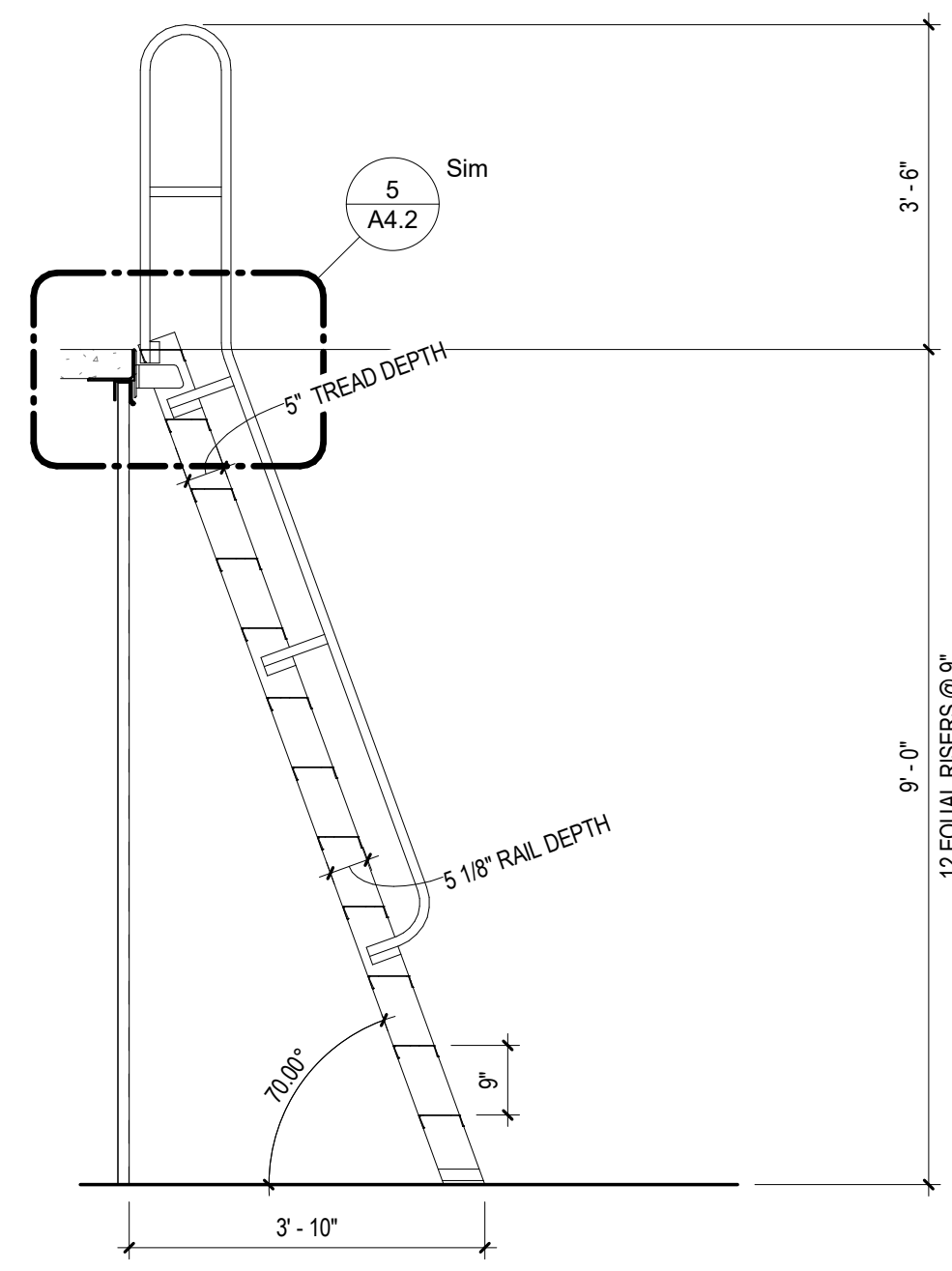
1 GUARDRAIL DETAIL AT STAIR - TYPICAL
1 1/2" = 1'-0"



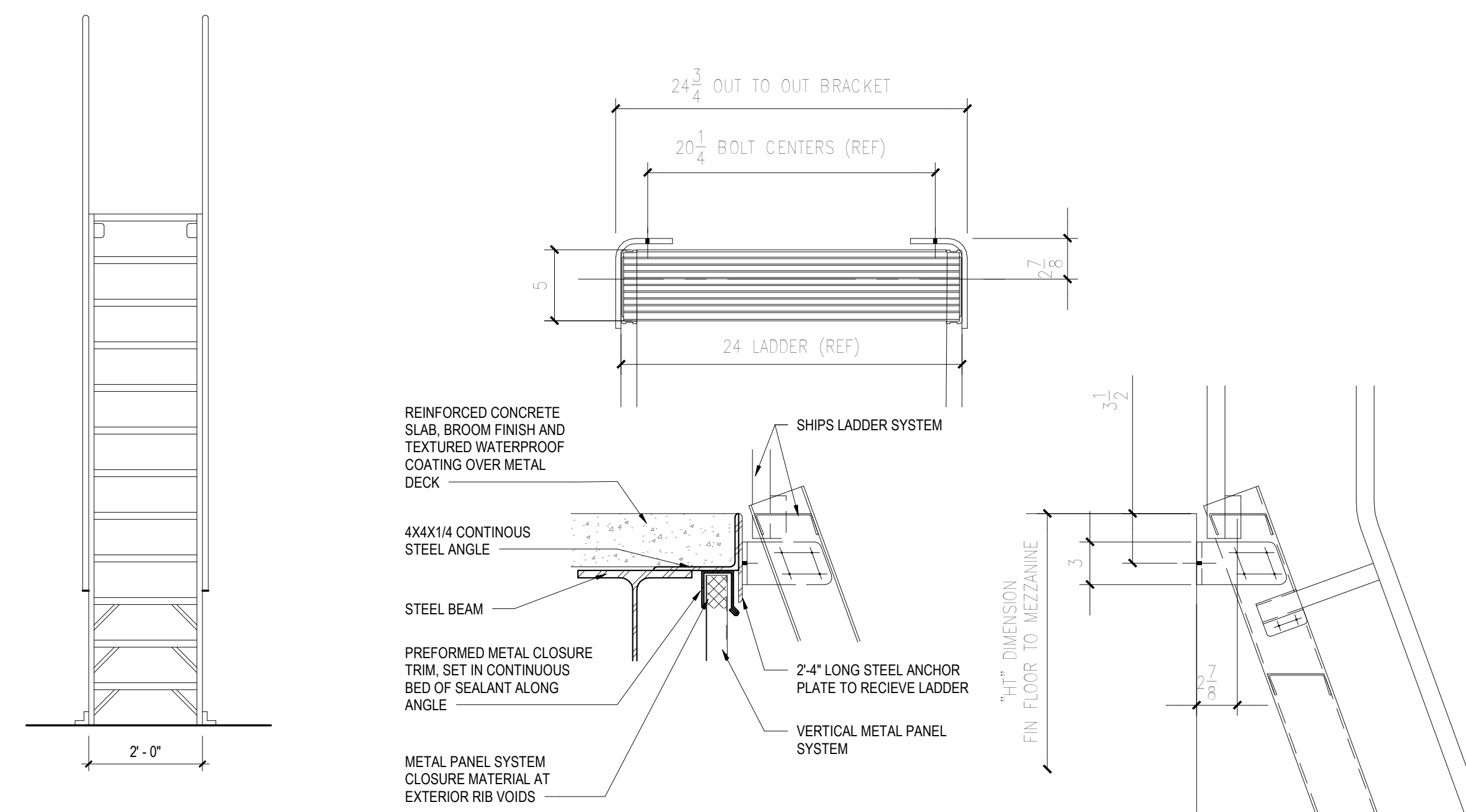
2 GUARDRAIL ELEVATION DETAIL AT ROOF - TYPICAL
1 1/2" = 1'-0"



3 TREAD & RISER DETAIL
1 1/2" = 1'-0"



4 SHIPS LADDER SECTION
1/2" = 1'-0"



5 SHIPS LADDER DETAILS
1 1/2" = 1'-0"

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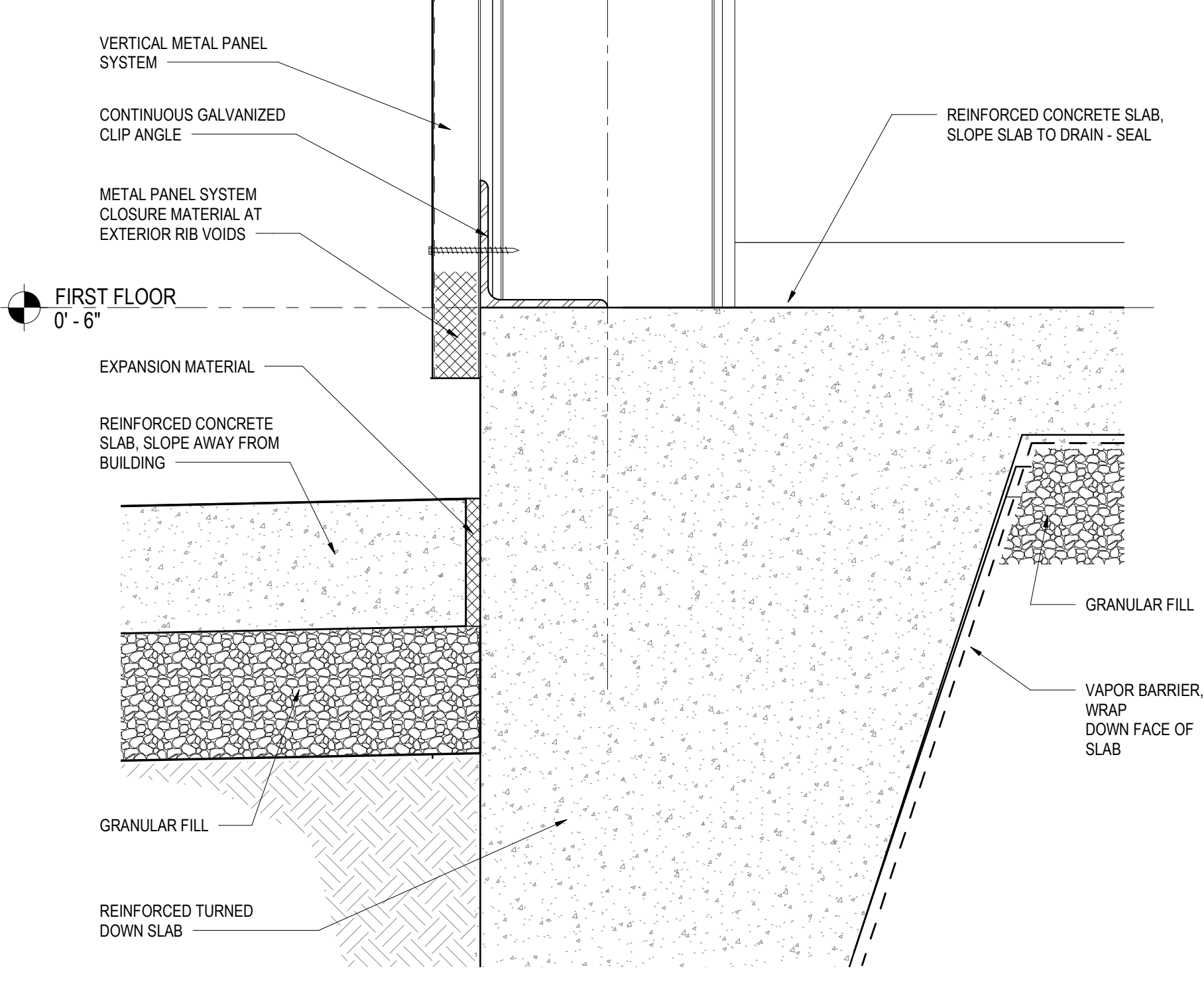
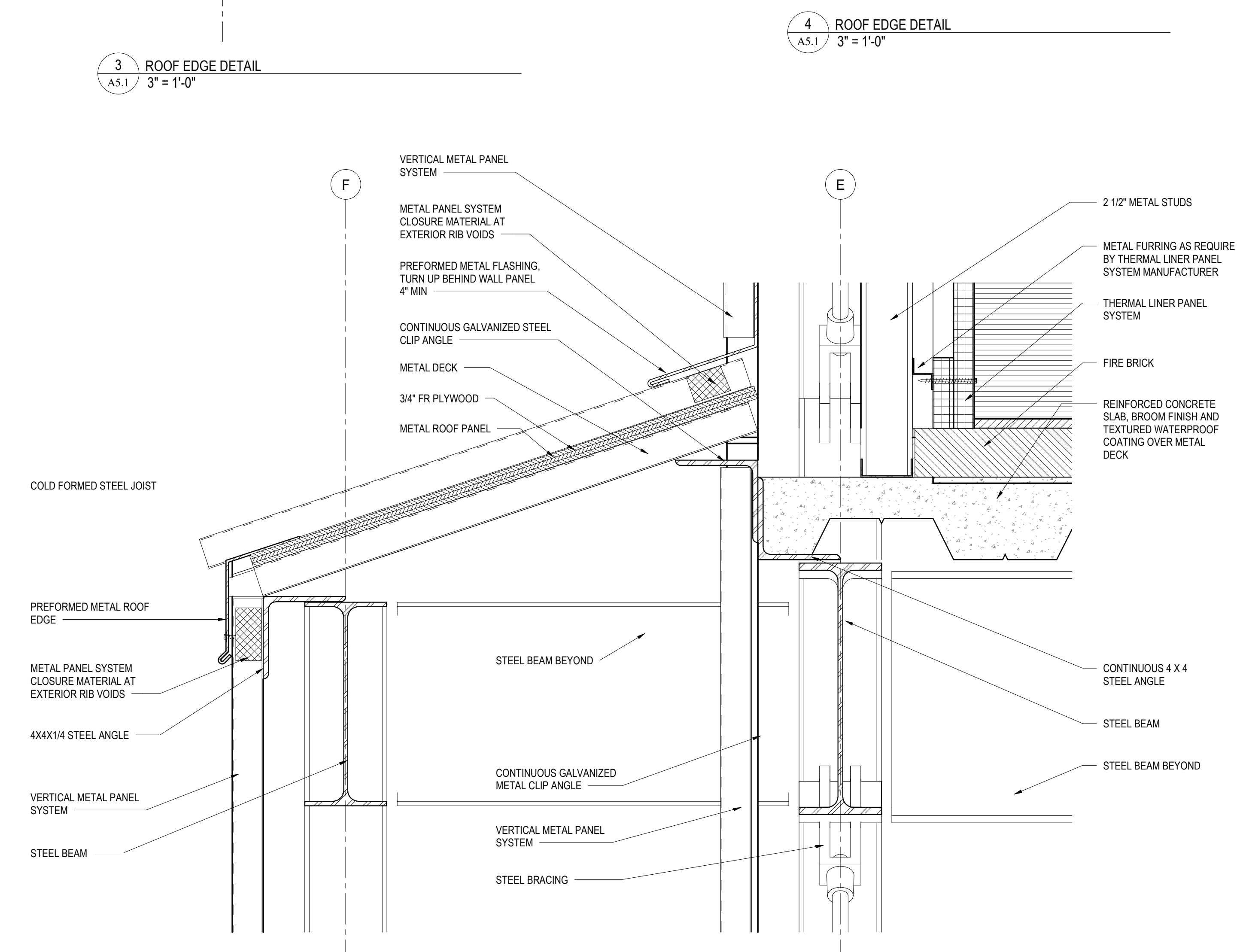
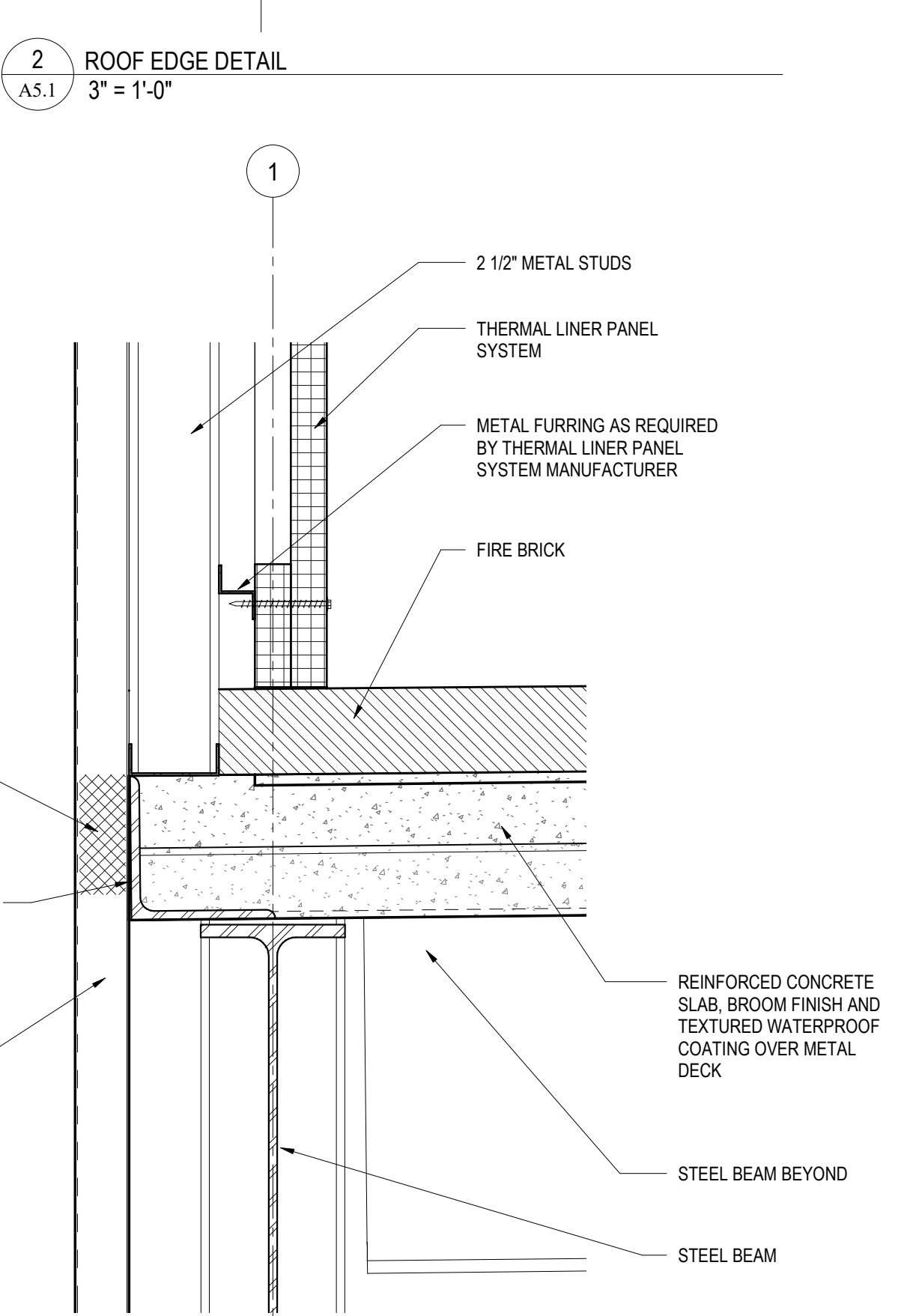
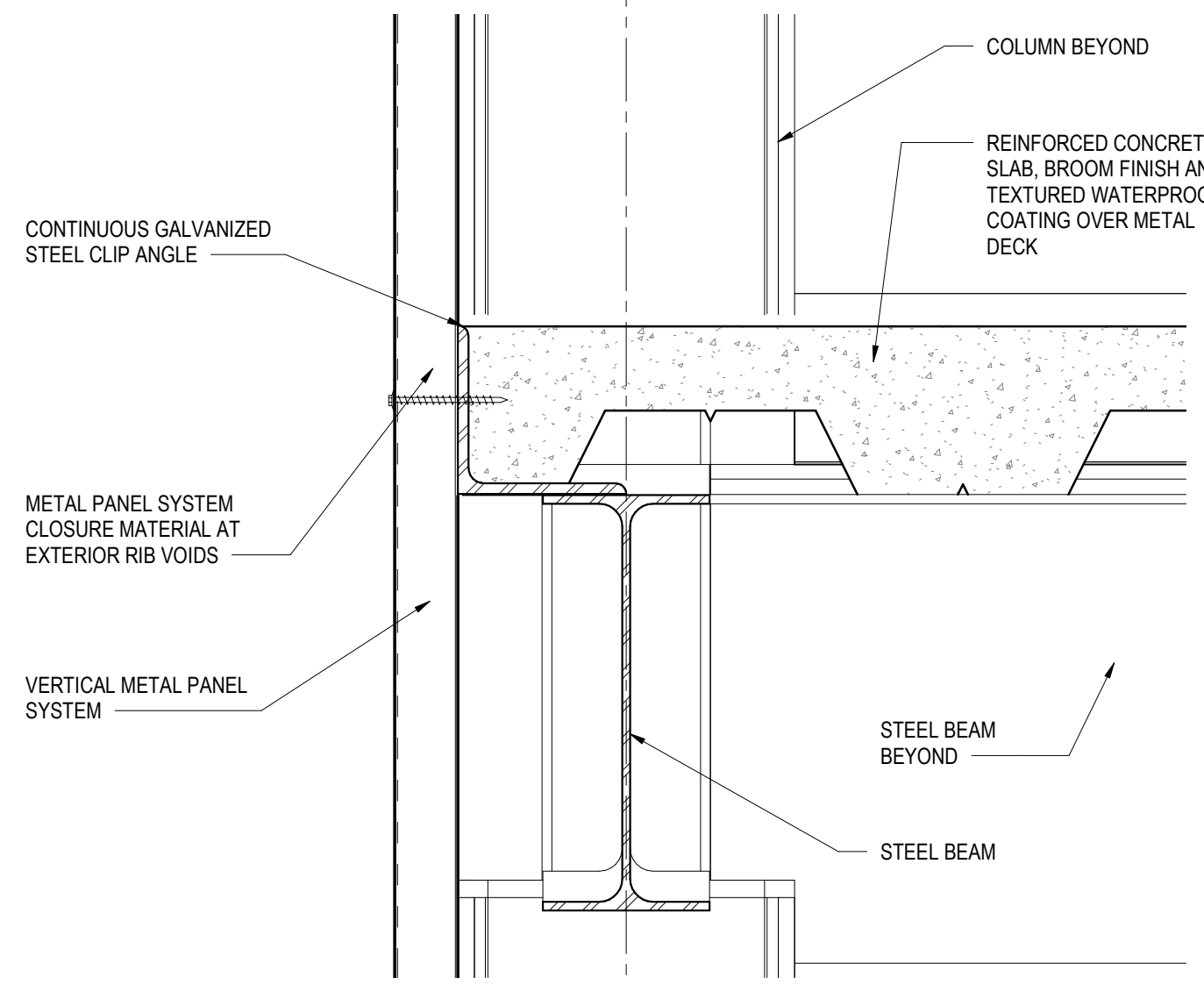
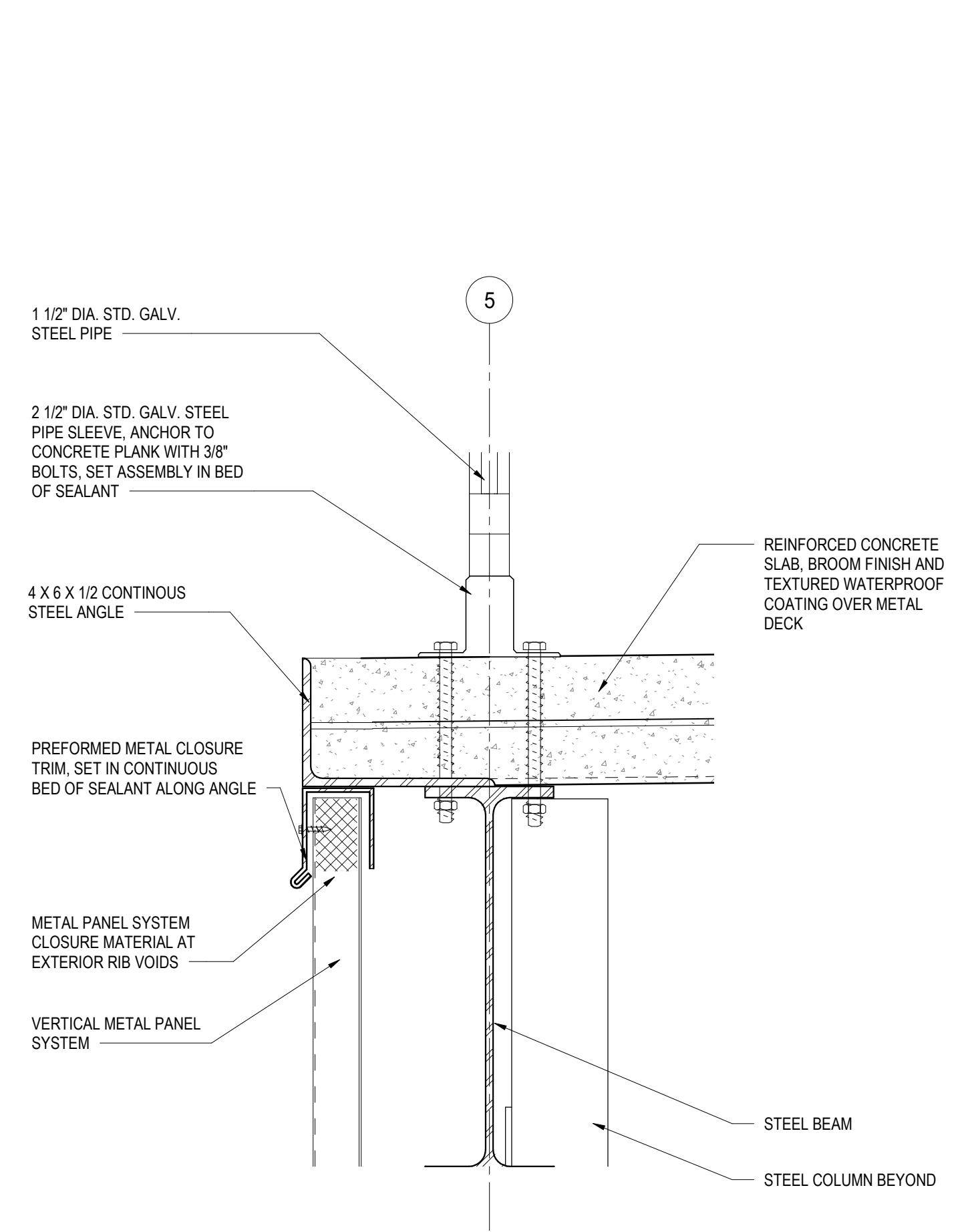
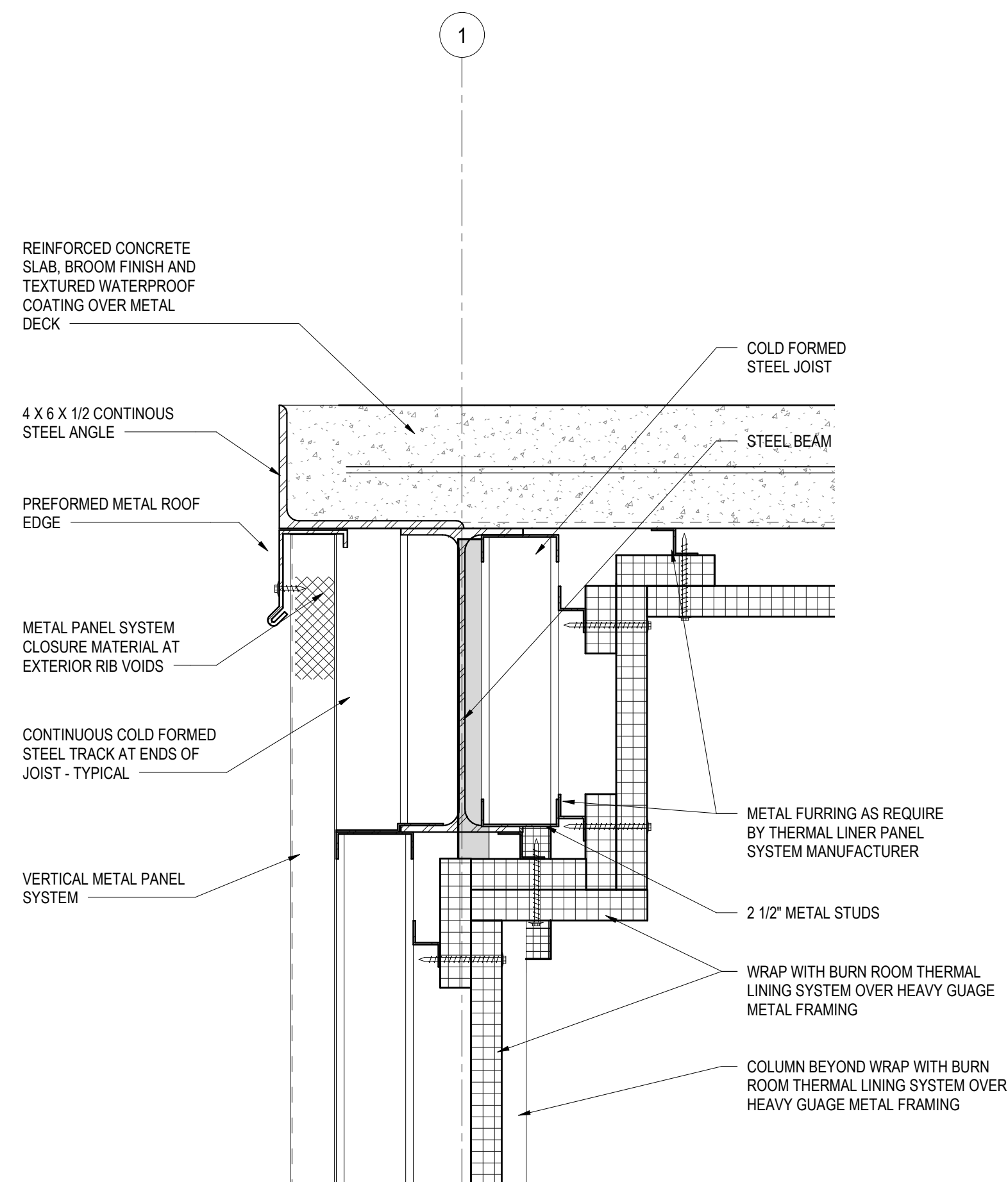
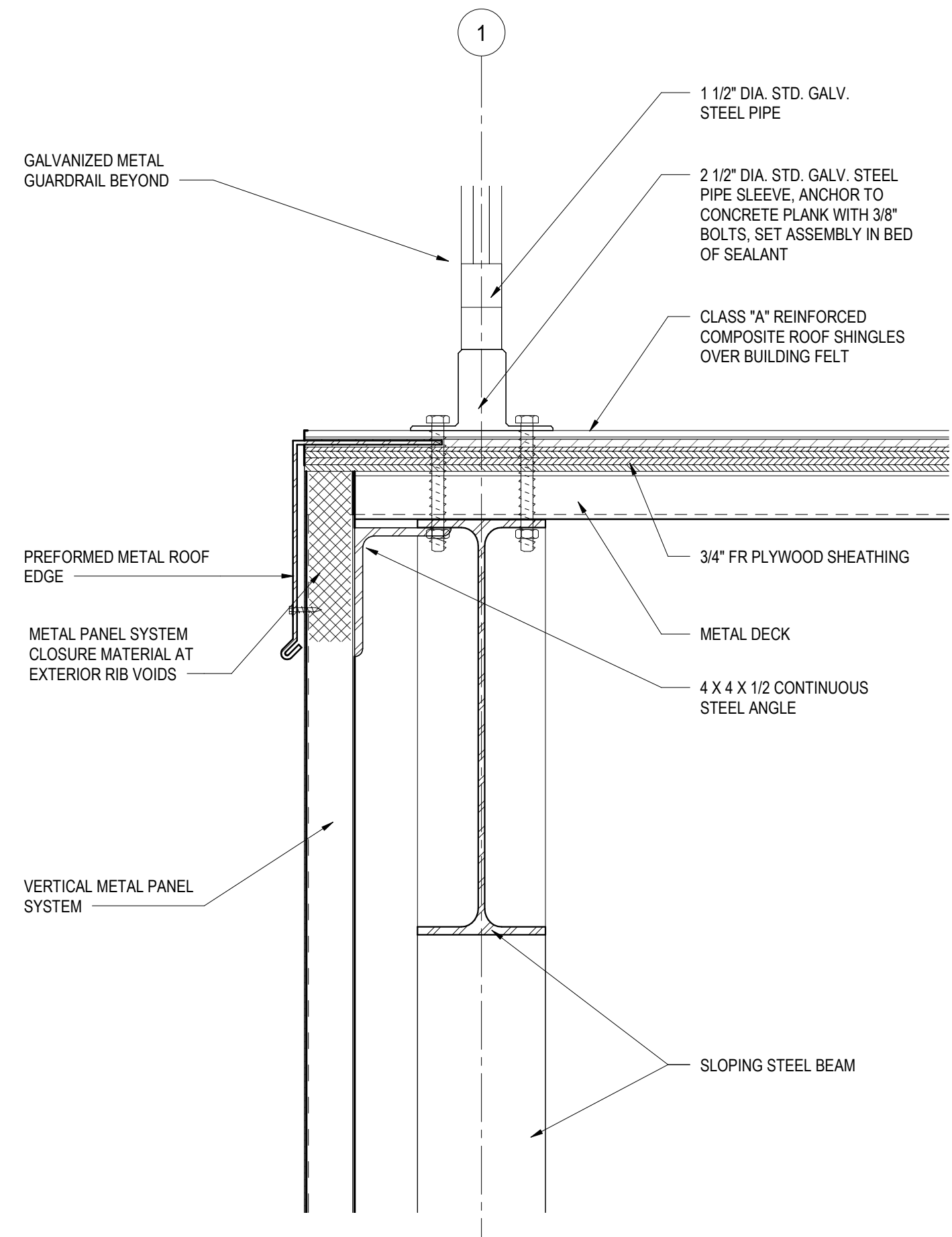
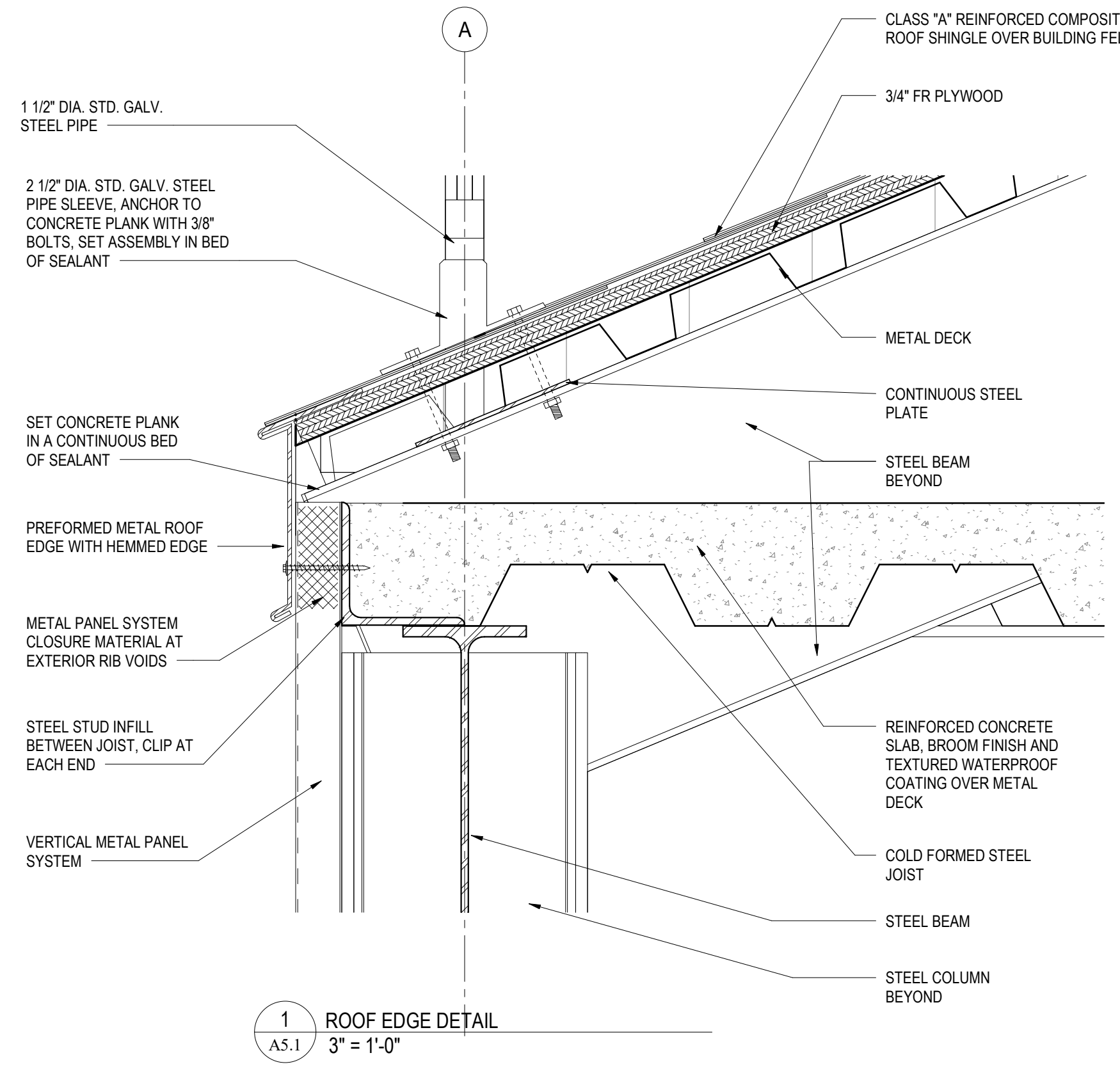
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LARGE SCALE PLANS
 PLOT SCALE: As indicated
 FILENAME:
 DATE:

PROJECT
 3461
A4.2



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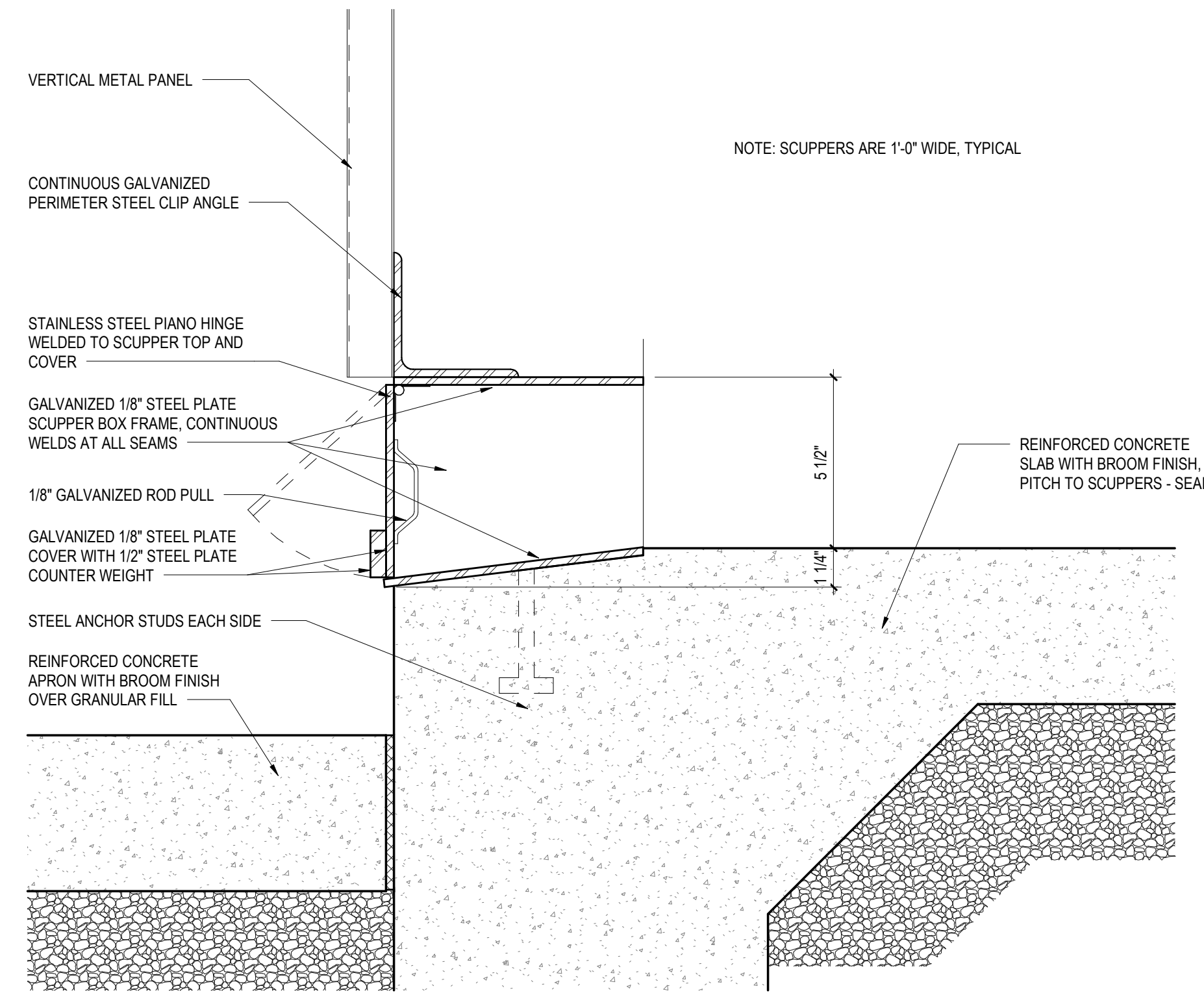
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FLUVANNA COUNTY
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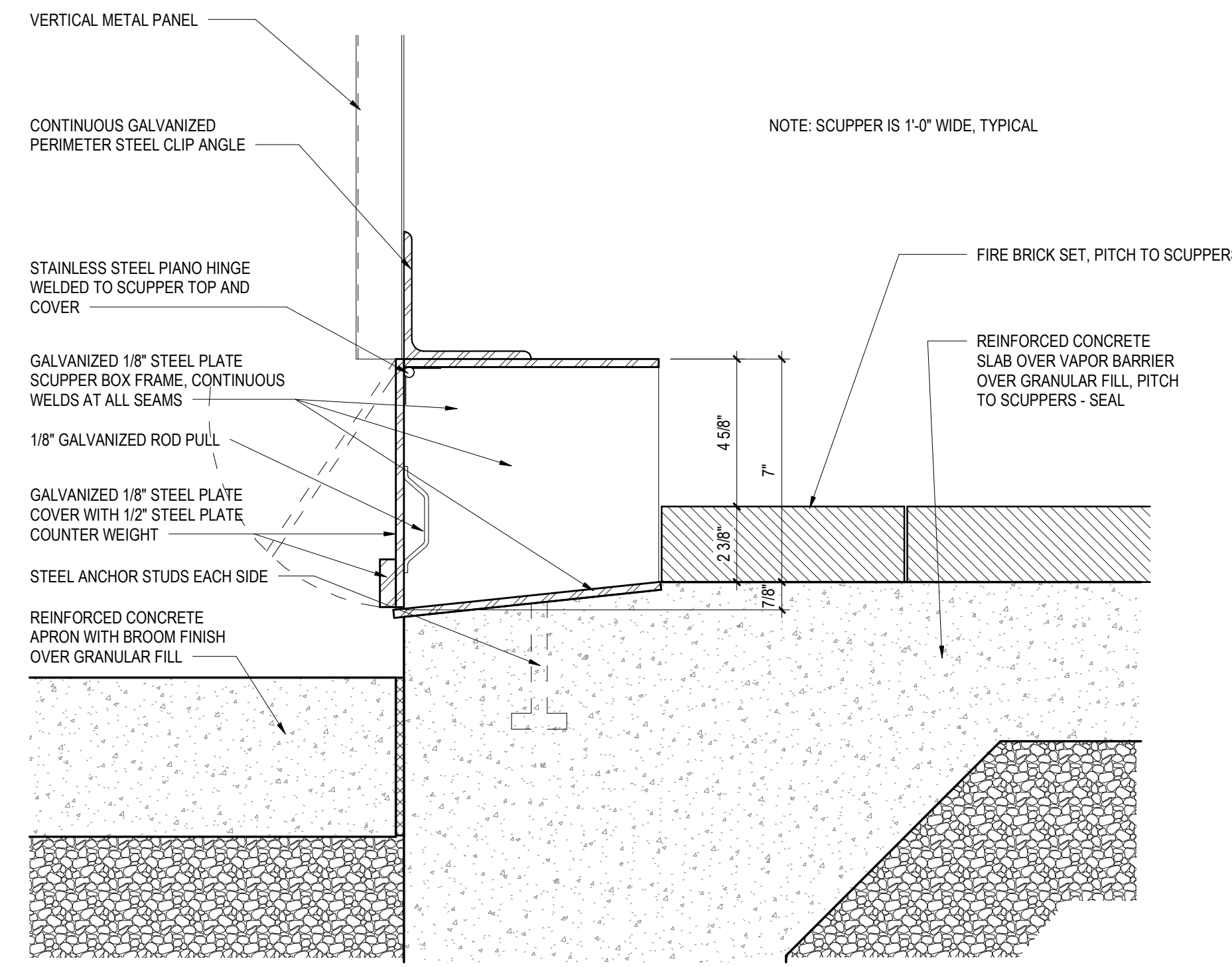


DETAILS	PROJECT 3461
PLOT SCALE 3" = 1'-0"	A5.1
FILENAME:	
DATE: 5/16/2022	

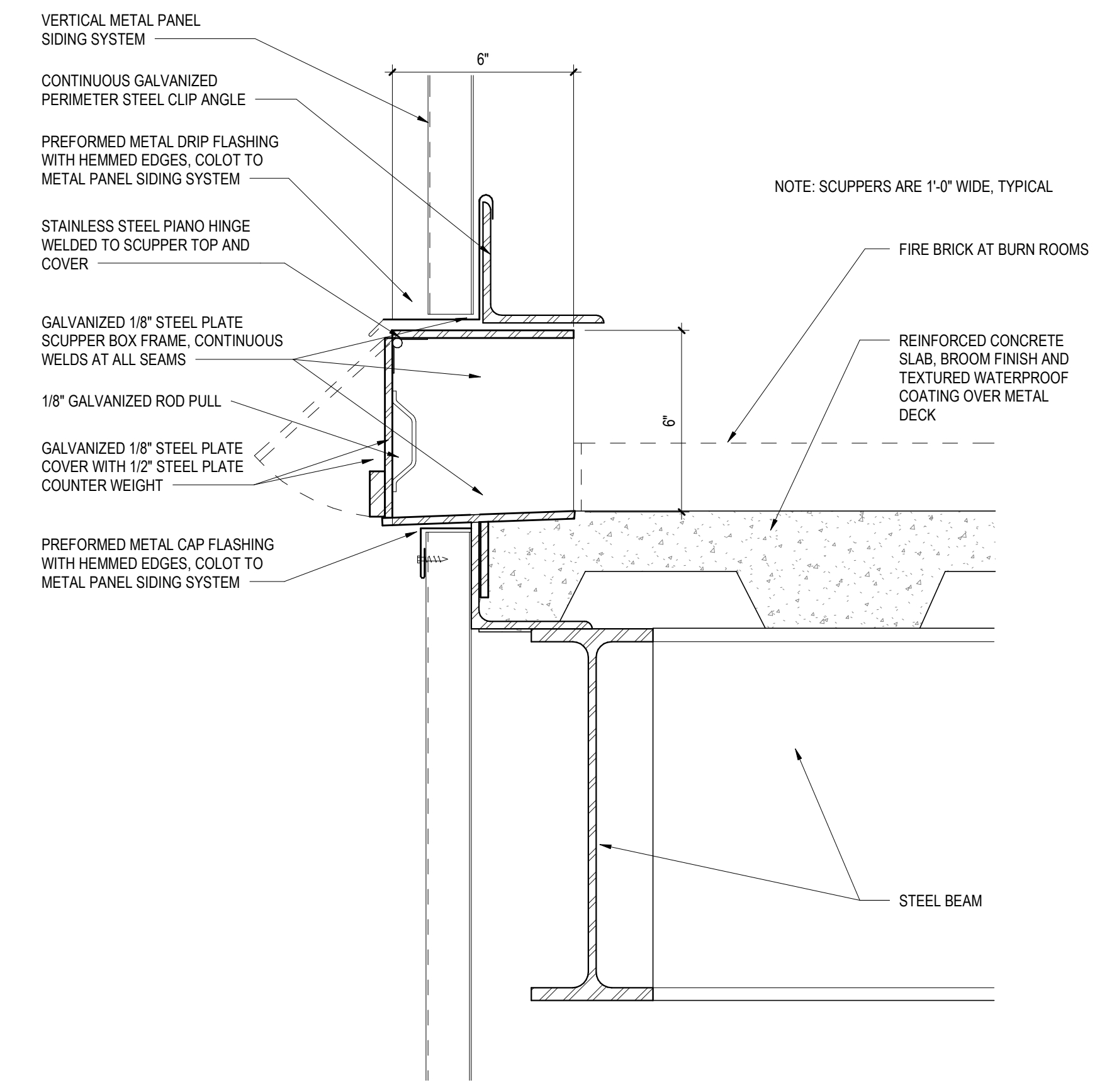
NOTE: DETAILS WITHIN THIS DRAWING, TITLED AS "TYPICAL" INDICATE COMMON NON-SPECIFIC CONDITIONS OCCURRING THROUGHOUT BUILDING. THE LARGE SCALE ALLOWS A MORE COMPREHENSIVE LEVEL OF DETAIL TO BE SHOWN. SPECIFIC CONSTRUCTION CONDITIONS WILL VARY ACCORDING TO MATERIAL AND DIMENSIONS, MORE ACCURATELY SHOWN AS PART OF INDIVIDUAL SECTIONS AND DETAILS THROUGHOUT THE CONSTRUCTION DOCUMENTS.



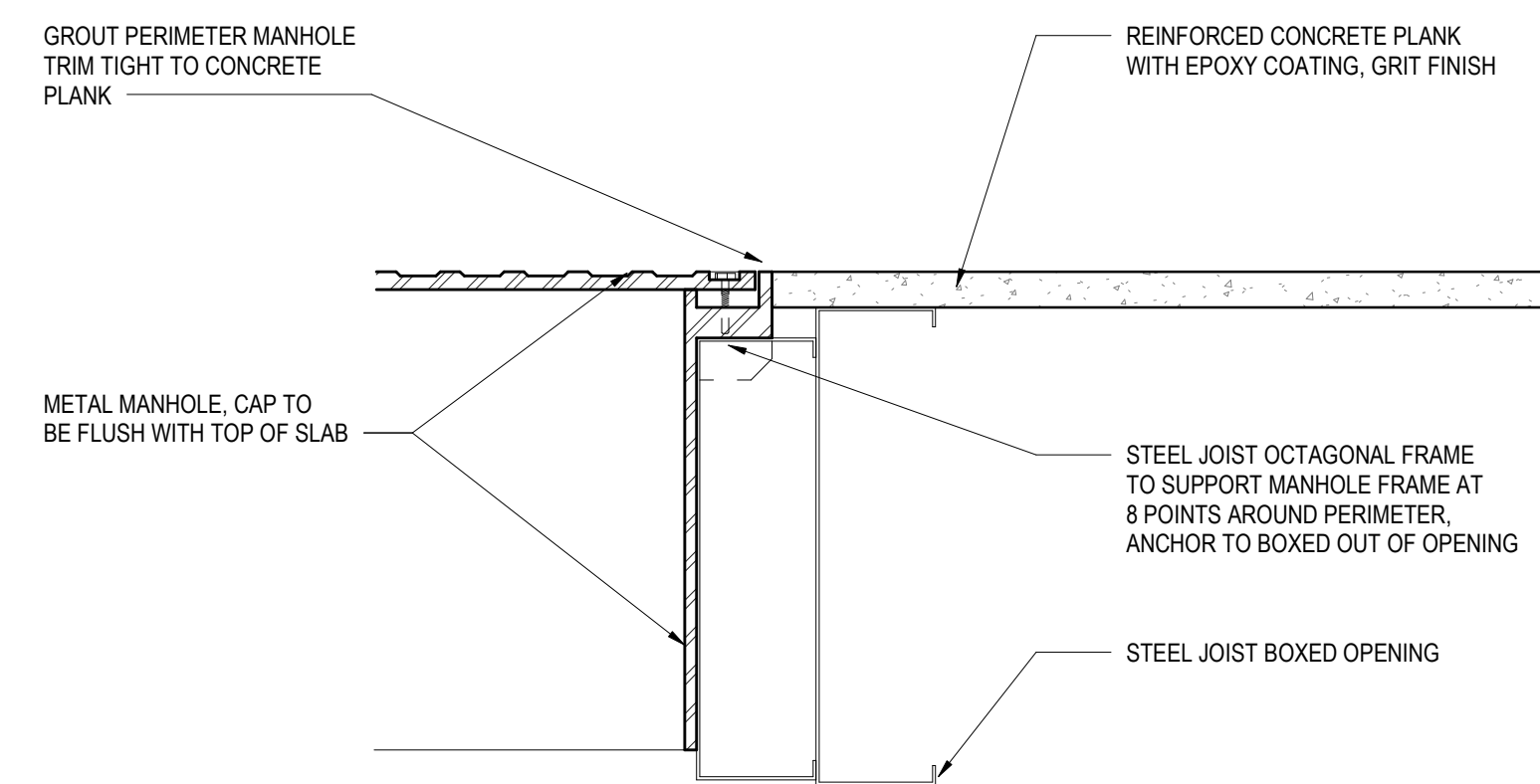
1 SCUPPER AT SLAB ON GRADE DETAIL
3" = 1'-0"



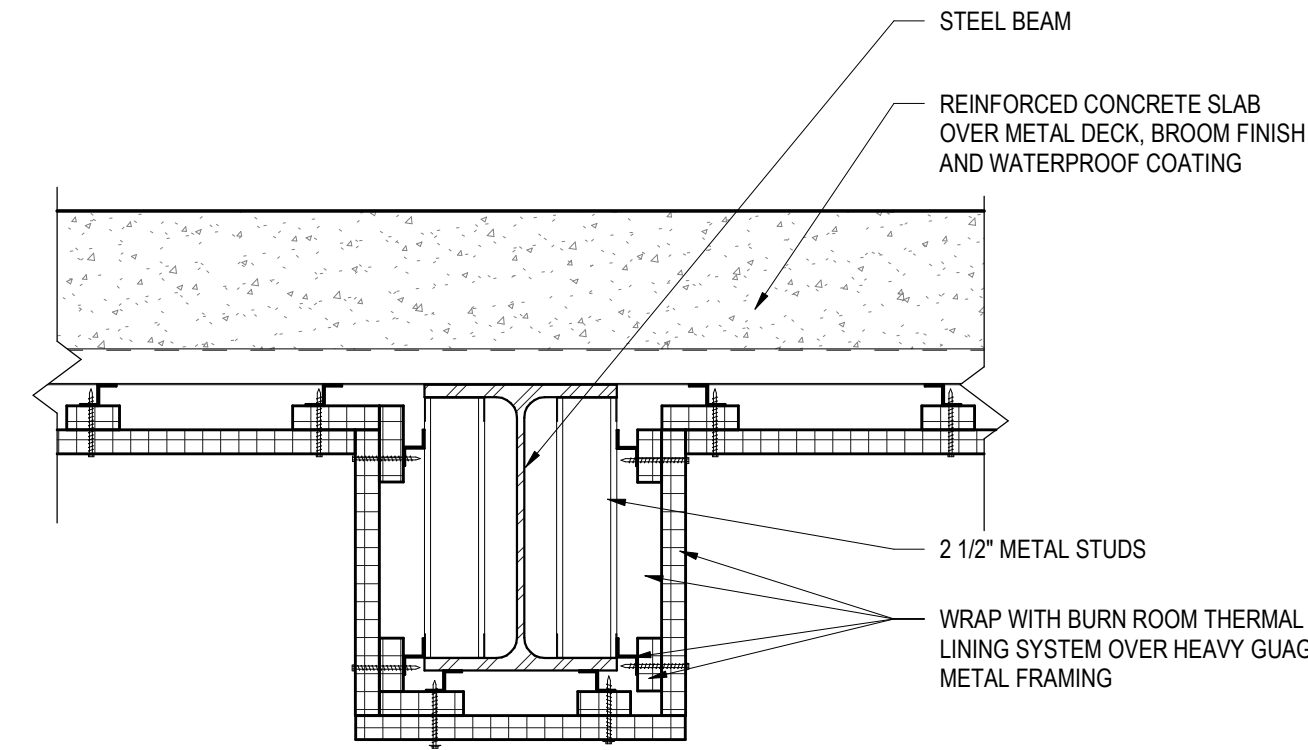
2 SCUPPER AT RECESSED SLAB DETAIL
3" = 1'-0"



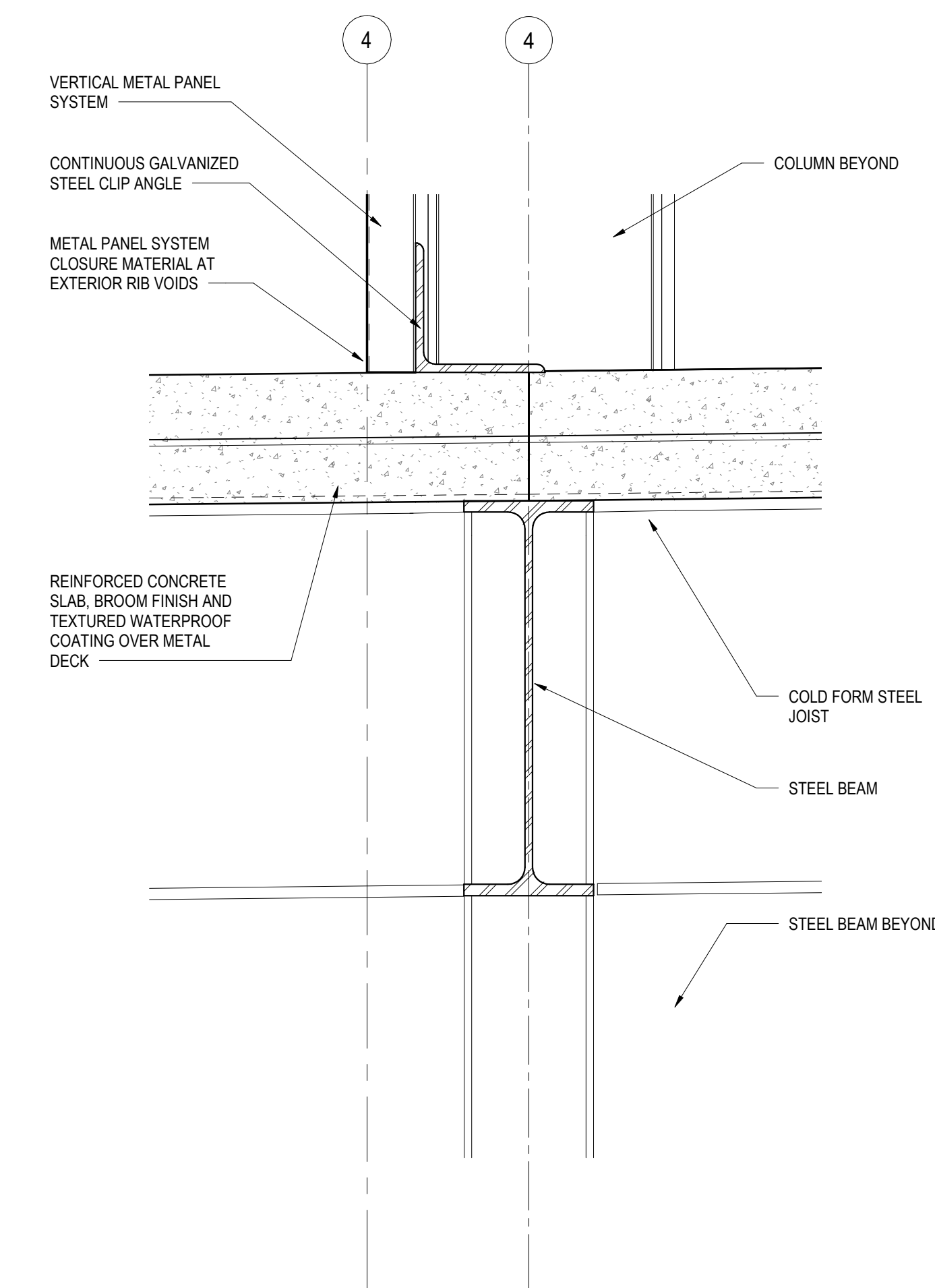
3 SCUPPER AT ELEVATED SLAB DETAIL
3" = 1'-0"



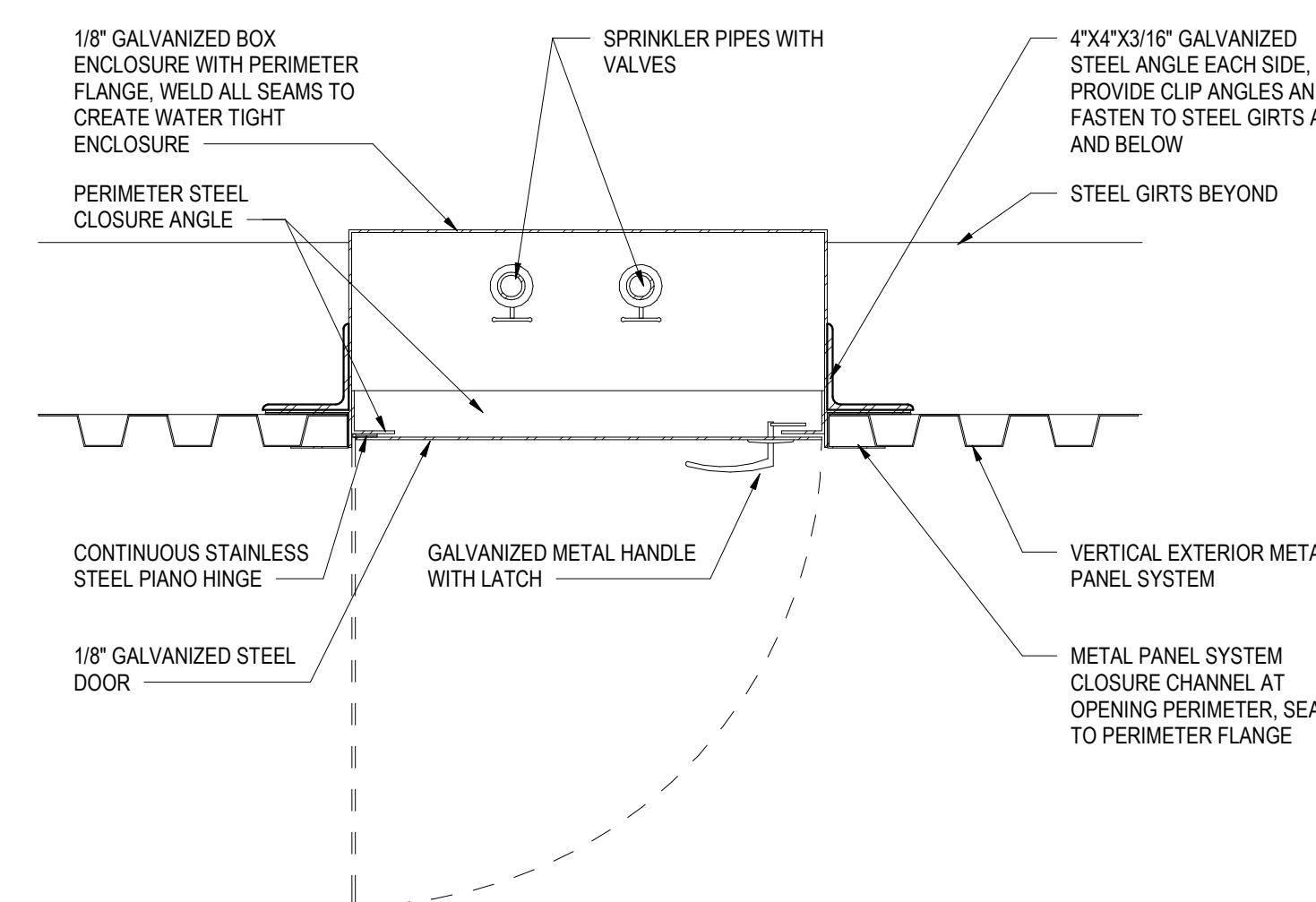
4 MANHOLE DETAIL
3" = 1'-0"



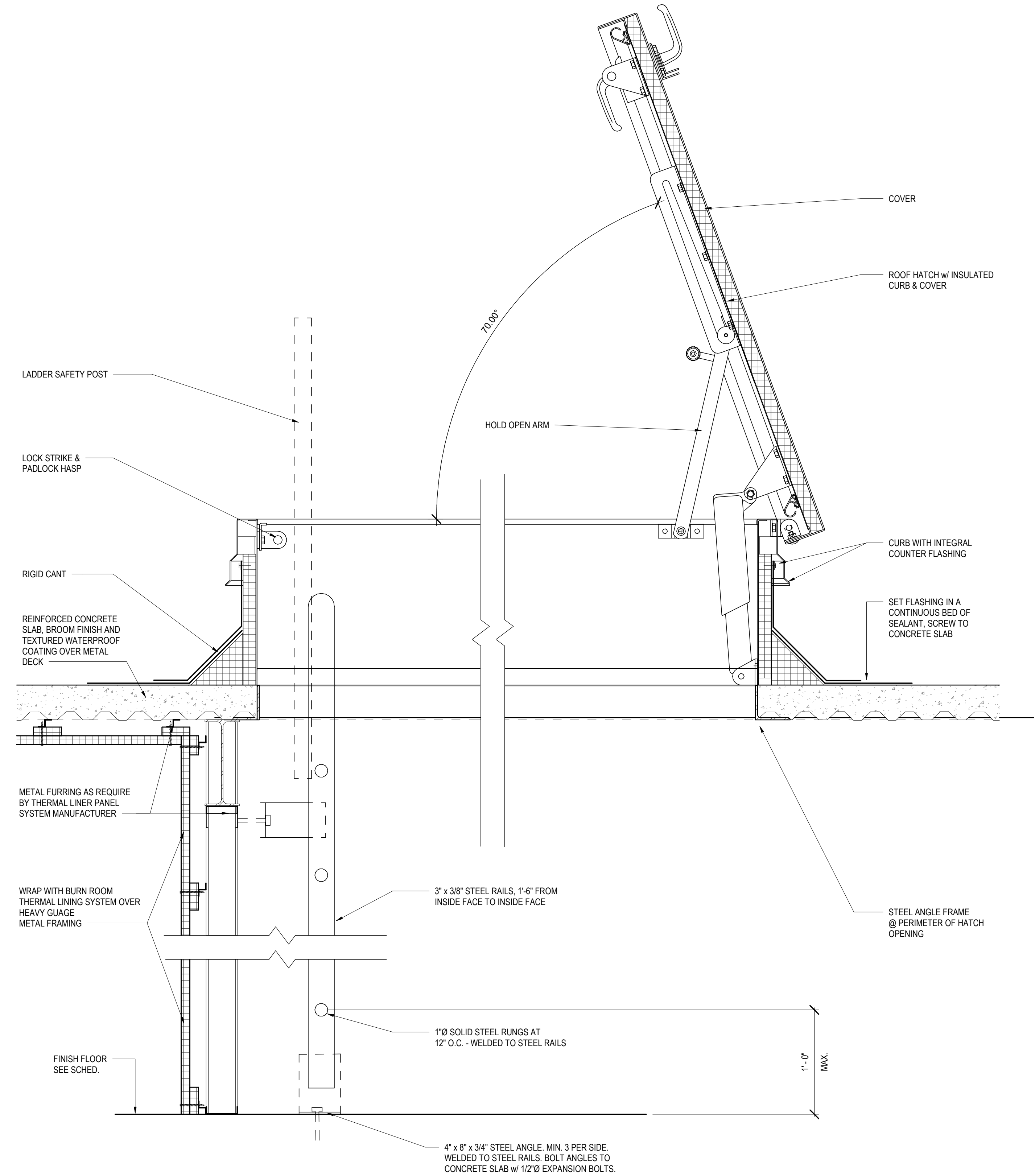
5 PROTECTED BEAM DETAIL
1 1/2" = 1'-0"



7 WALL BASE DETAIL
3" = 1'-0"



6 RECESSED SPRINKLER CONTROL BOX
1 1/2" = 1'-0"



8 ROOF HATCH DETAIL
1 1/2" = 1'-0"

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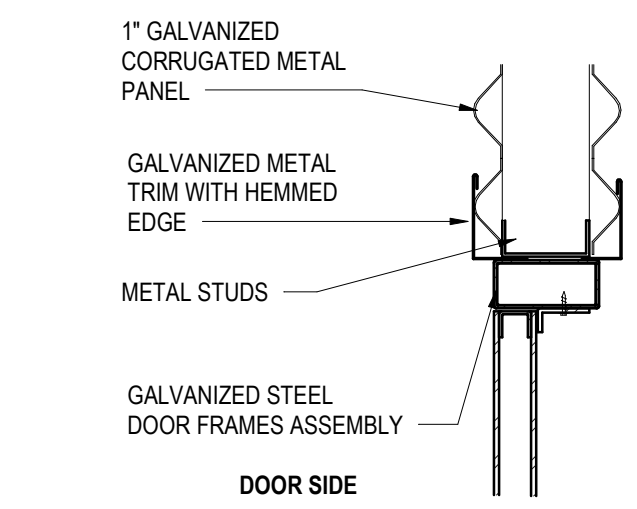
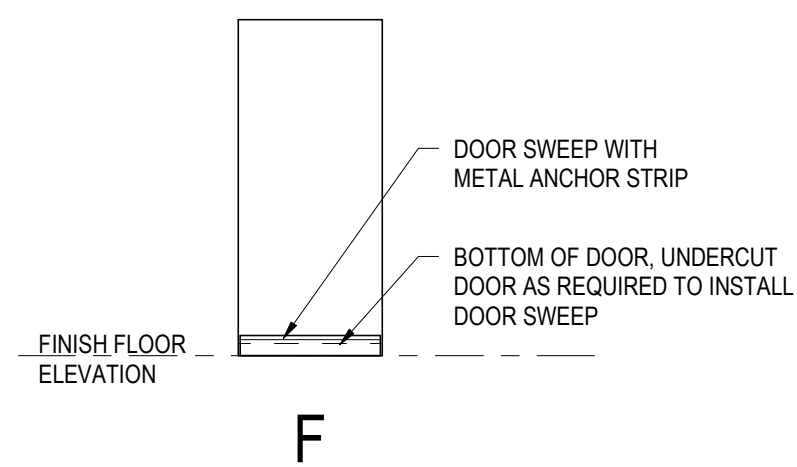
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DETAILS	PROJECT 3461
PLOT SCALE As indicated	A5.2
FILENAME	
DATE	

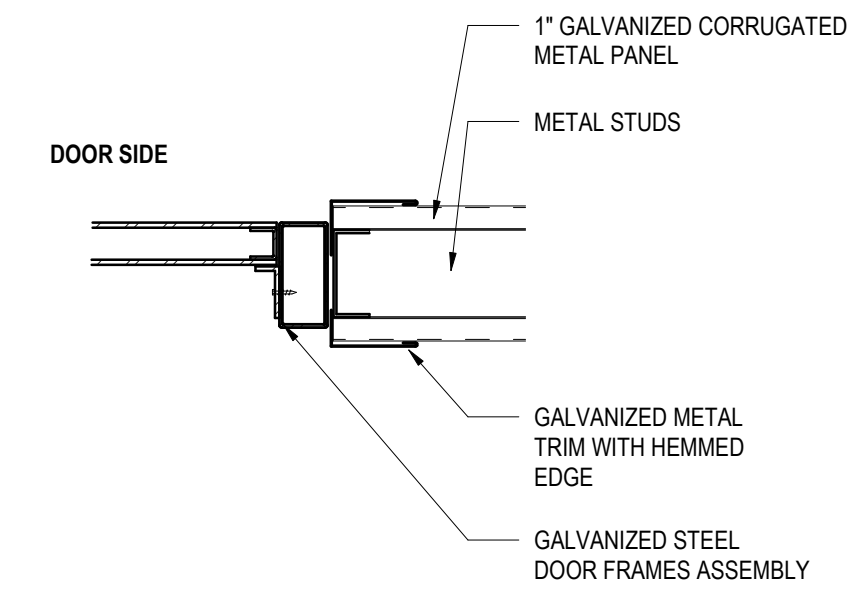
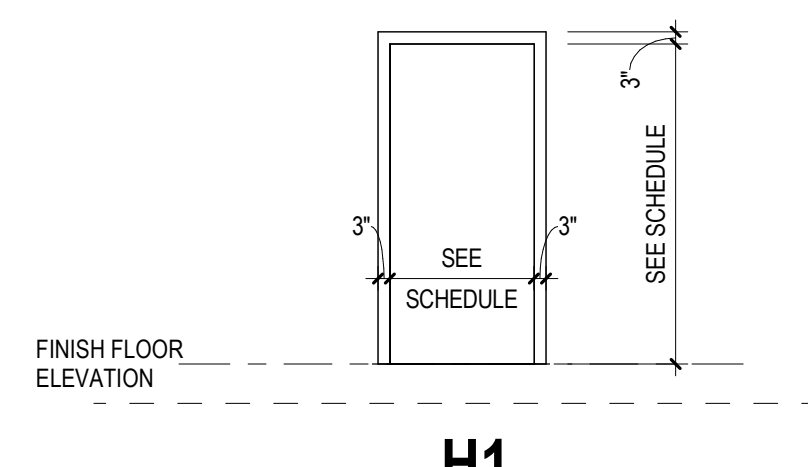
DOOR TYPES

* - RECOMMENDED MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTER LINE OF FIRE EXIT DEVICE
 ** - COORDINATE WITH DOOR MANUFACTURE REQUIREMENTS



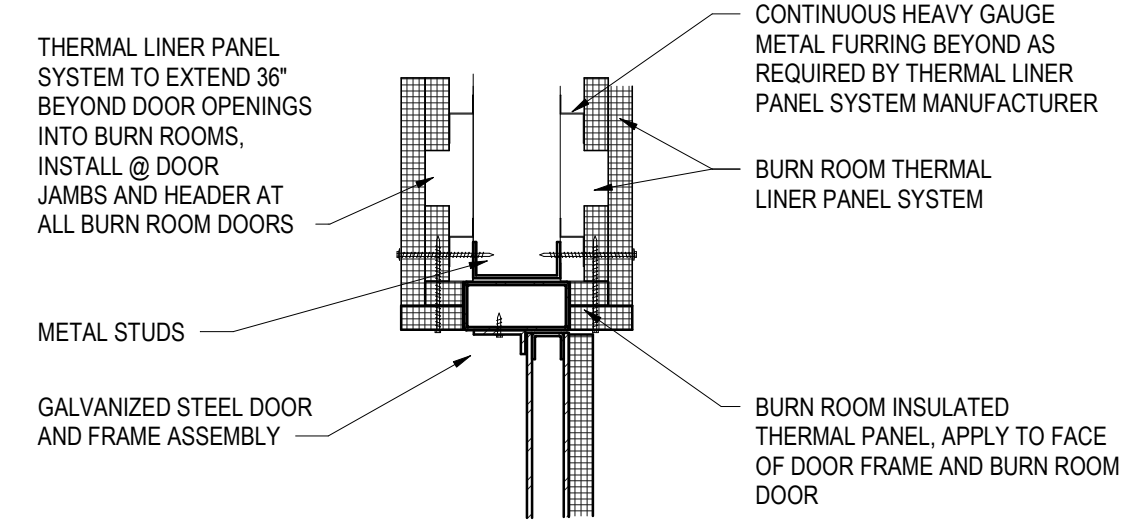
1 TYPICAL INTERIOR DOOR HEAD DETAIL
 A6.1 1 1/2" = 1'-0"

FRAME TYPES

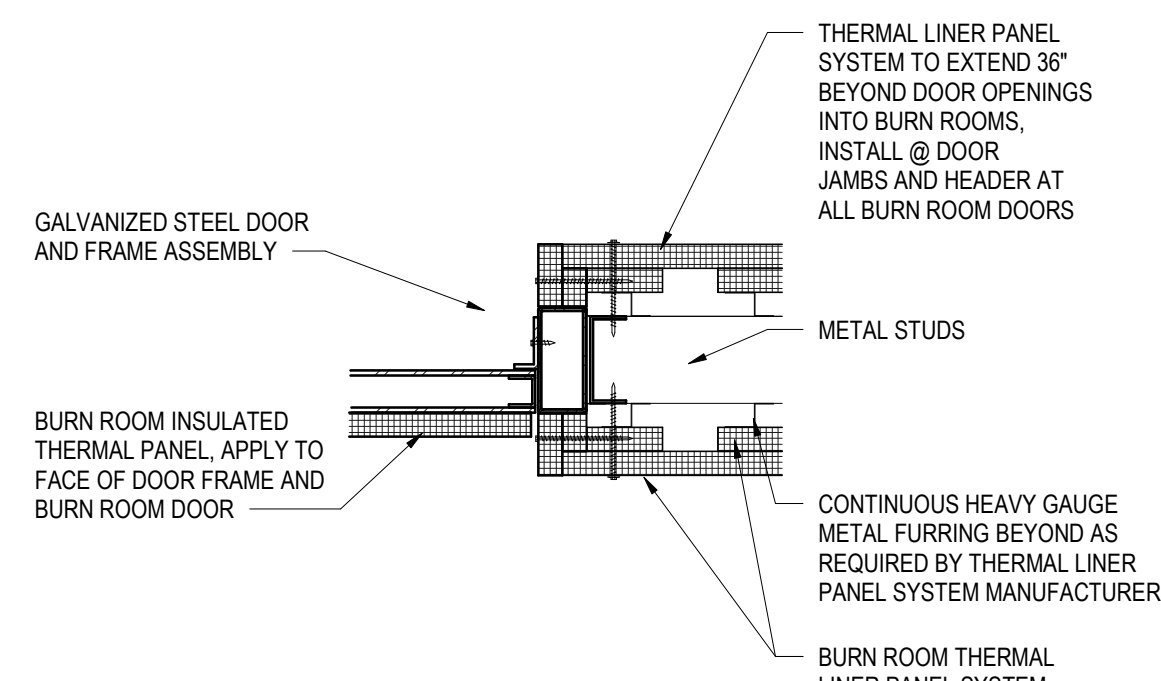


2 TYPICAL INTERIOR DOOR JAMB DETAIL
 A6.1 1 1/2" = 1'-0"

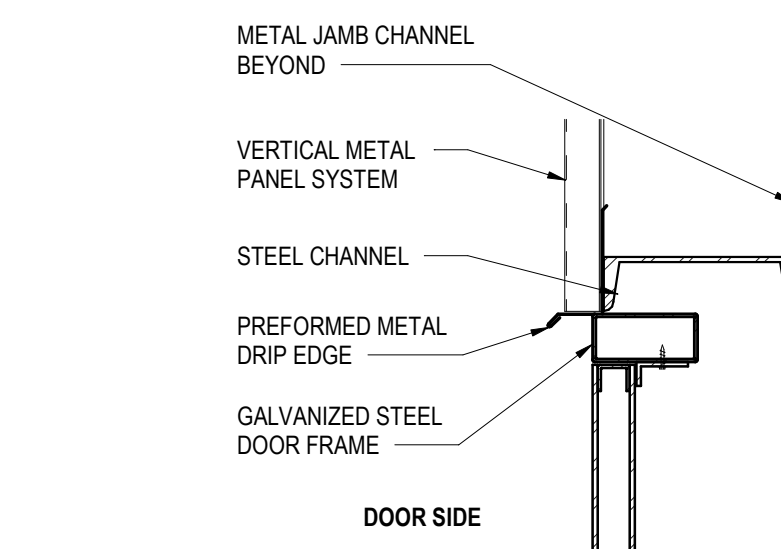
OPENING NUMBER	DOOR & FRAME UL RATING	DOOR							FRAME				HARDWARE SET	SPECIAL DETAIL	REMARKS
		DOOR TYPE	DOOR MATERIAL	GLAZING TYPE	DIMENSIONS			FRAME TYPE	FRAME MATERIAL	DETAILS					
					LEAF 1	LEAF 2	HEIGHT			THICKNESS	HEAD	JAMB			
100A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
100B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	3/A6.1	4/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
101	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
102	F	STL	--	3'-0"	3'-0"	6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
103A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
103B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
104	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
105	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
106A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
106B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
107A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
107B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
108A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
108B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
109	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
200	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
201A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	3/A6.1	4/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
201B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	3/A6.1	4/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
202	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
203A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
203B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
204A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
204B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
206A	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	5/A6.1	6/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY
206B	F	STL	--	3'-0"		6'-8"	1 1/2"		H1	STL	1/A6.1	2/A6.1	--	--	GALVANIZED DOOR AND FRAME ASSEMBLY



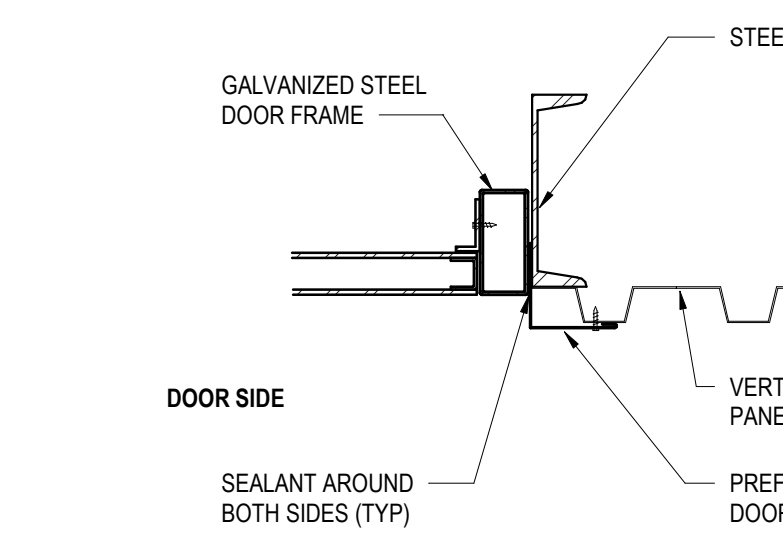
3 BURN ROOM INTERIOR DOOR HEAD DETAIL
 A6.1 1 1/2" = 1'-0"



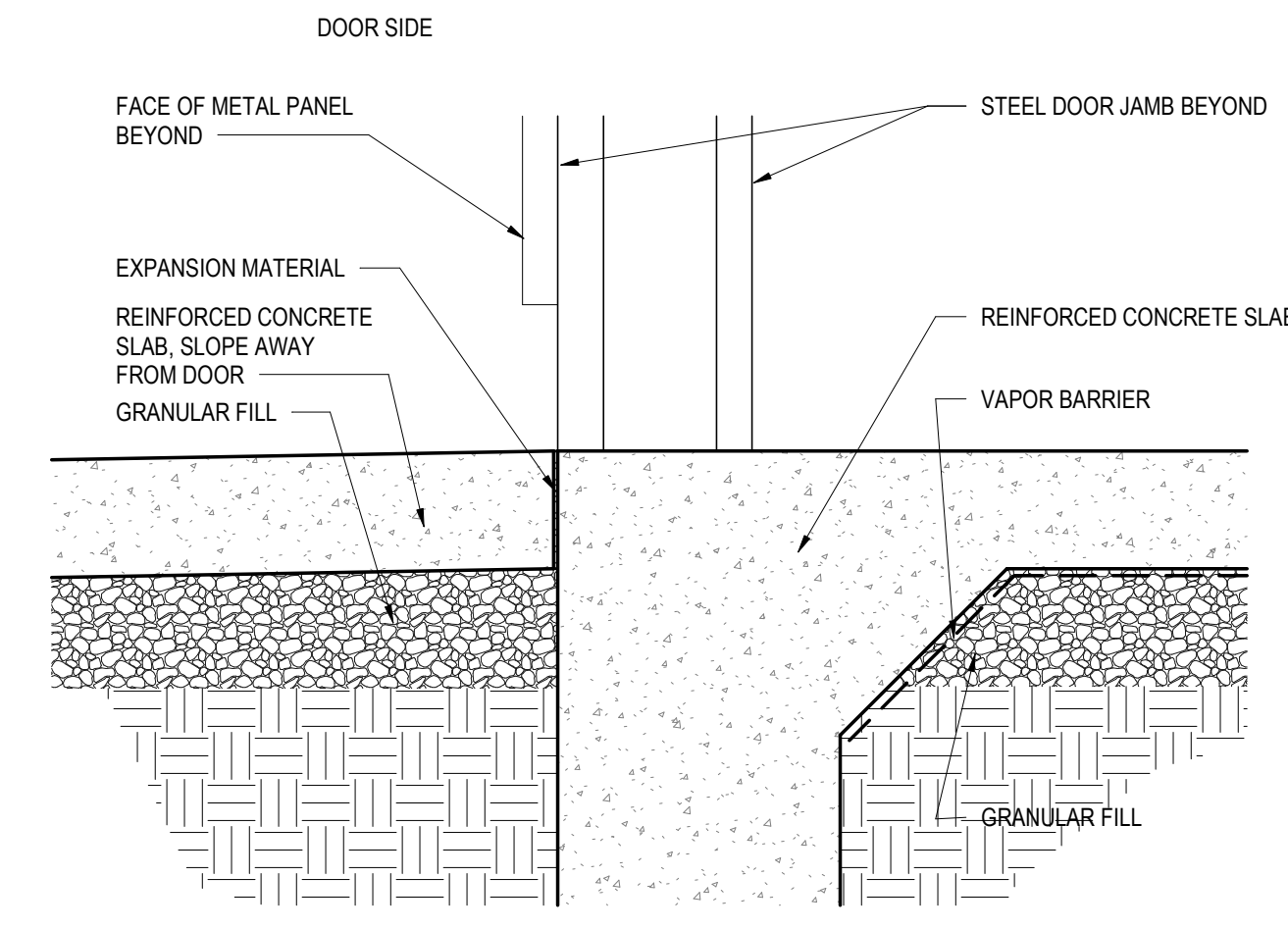
4 BURN ROOM INTERIOR DOOR JAMB DETAIL
 A6.1 1 1/2" = 1'-0"



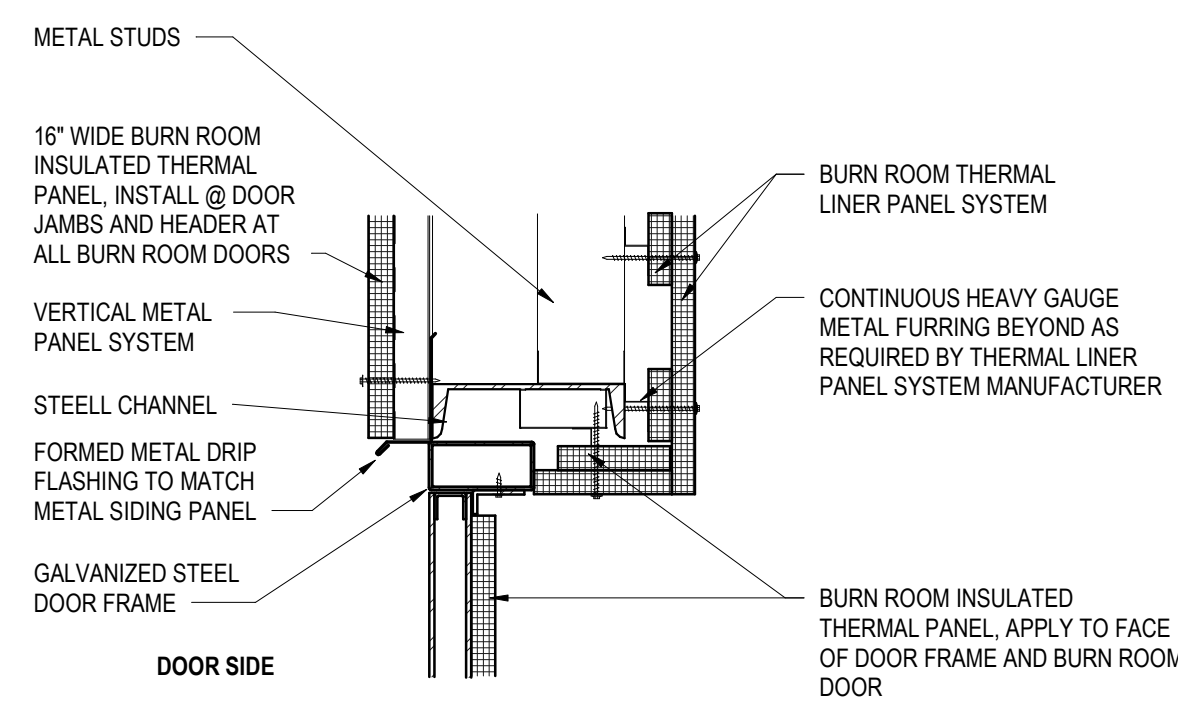
5 TYPICAL EXTERIOR DOOR HEAD
 A6.1 1 1/2" = 1'-0"



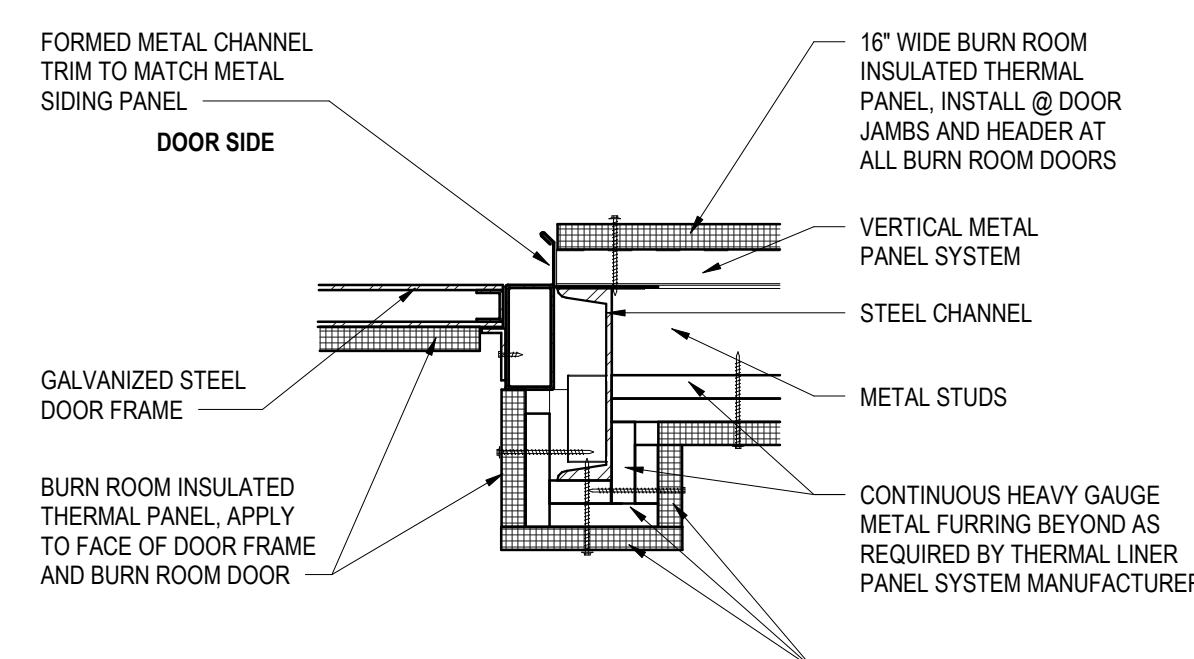
6 TYPICAL EXTERIOR DOOR JAMB
 A6.1 1 1/2" = 1'-0"



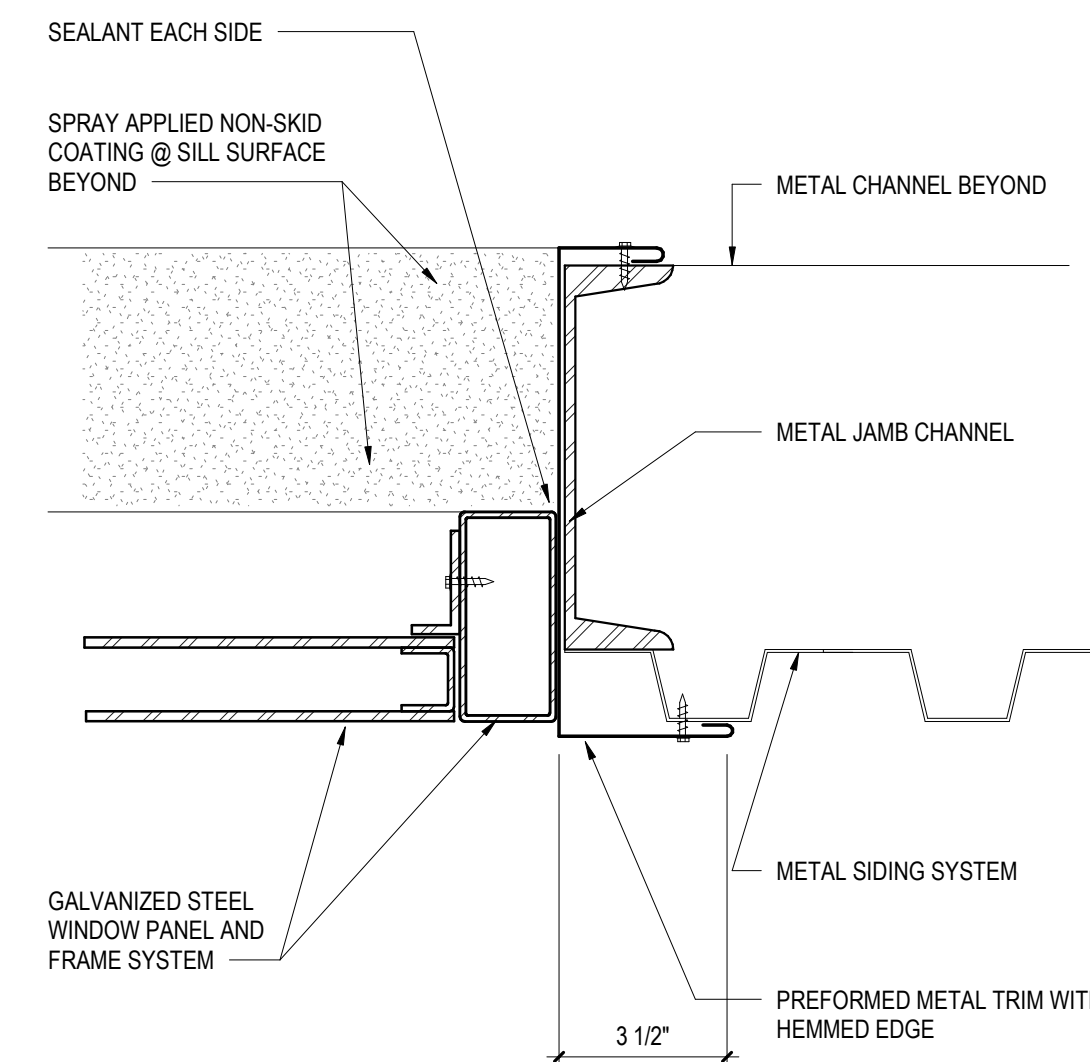
7 TYPICAL EXTERIOR DOOR SILL
 A6.1 1 1/2" = 1'-0"



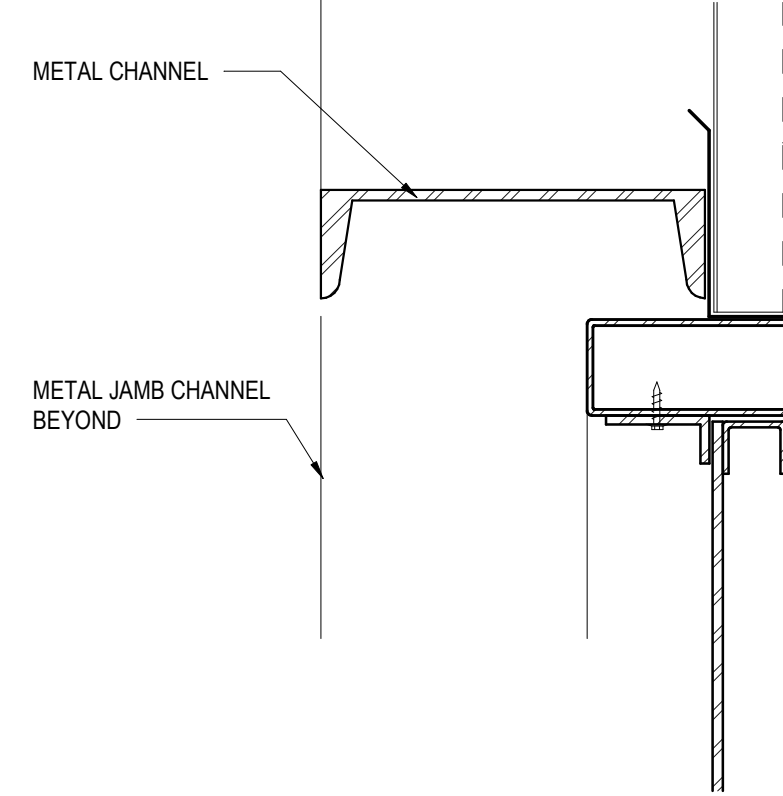
8 EXTERIOR BURN ROOM DOOR HEAD DETAIL
 A6.1 1 1/2" = 1'-0"



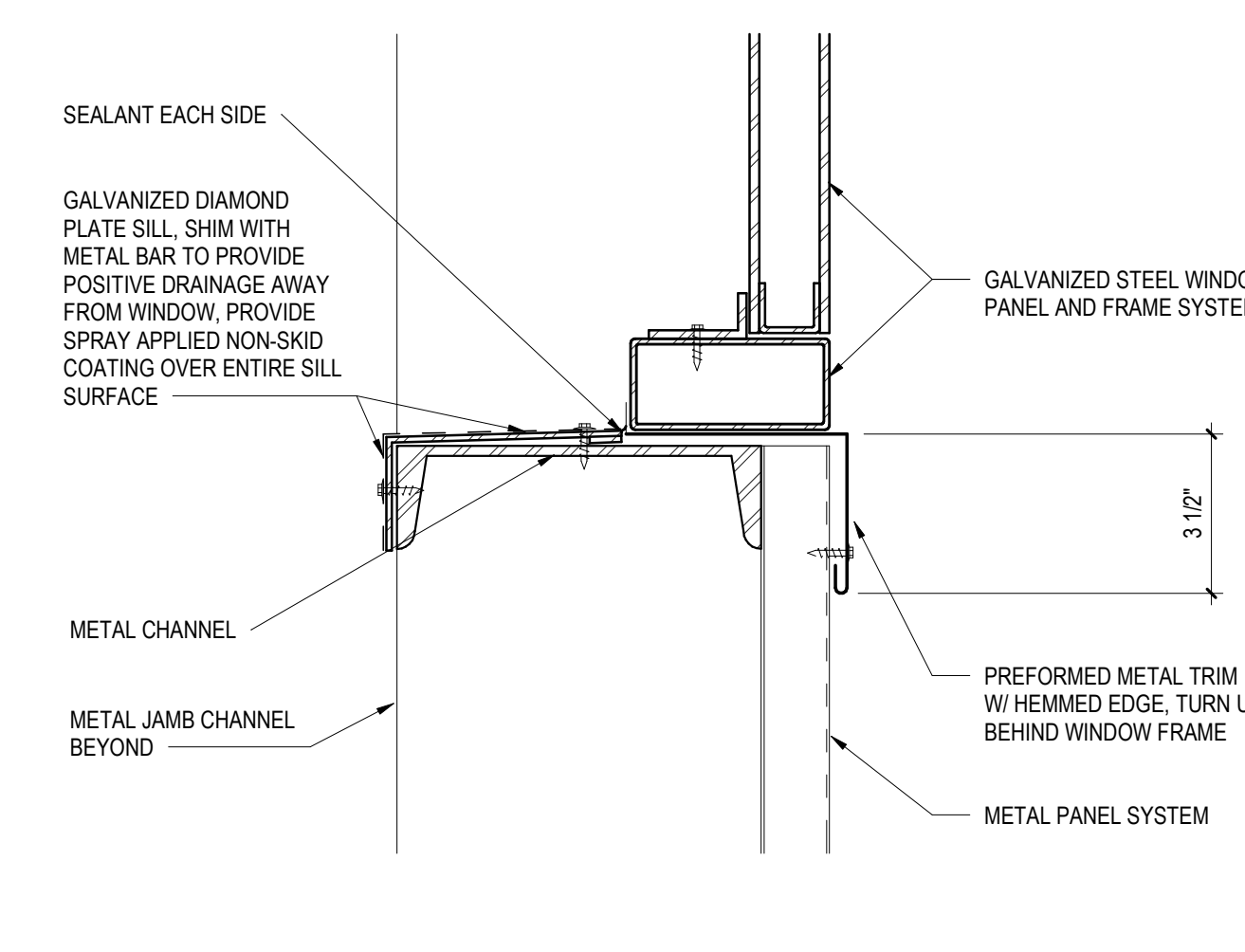
9 EXTERIOR BURN ROOM DOOR JAMB DETAIL
 A6.1 1 1/2" = 1'-0"



10 TYPICAL WINDOW JAMB
 A6.1 3" = 1'-0"

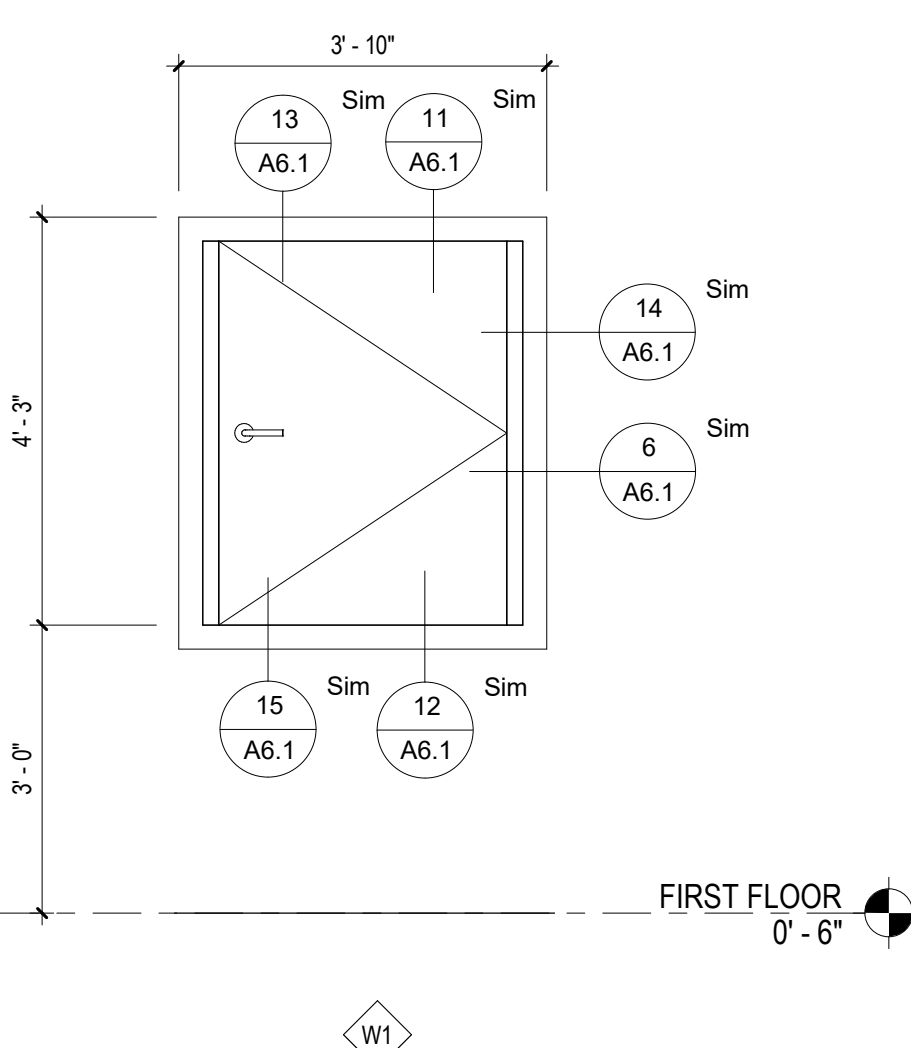


11 TYPICAL WINDOW HEAD
 A6.1 3" = 1'-0"

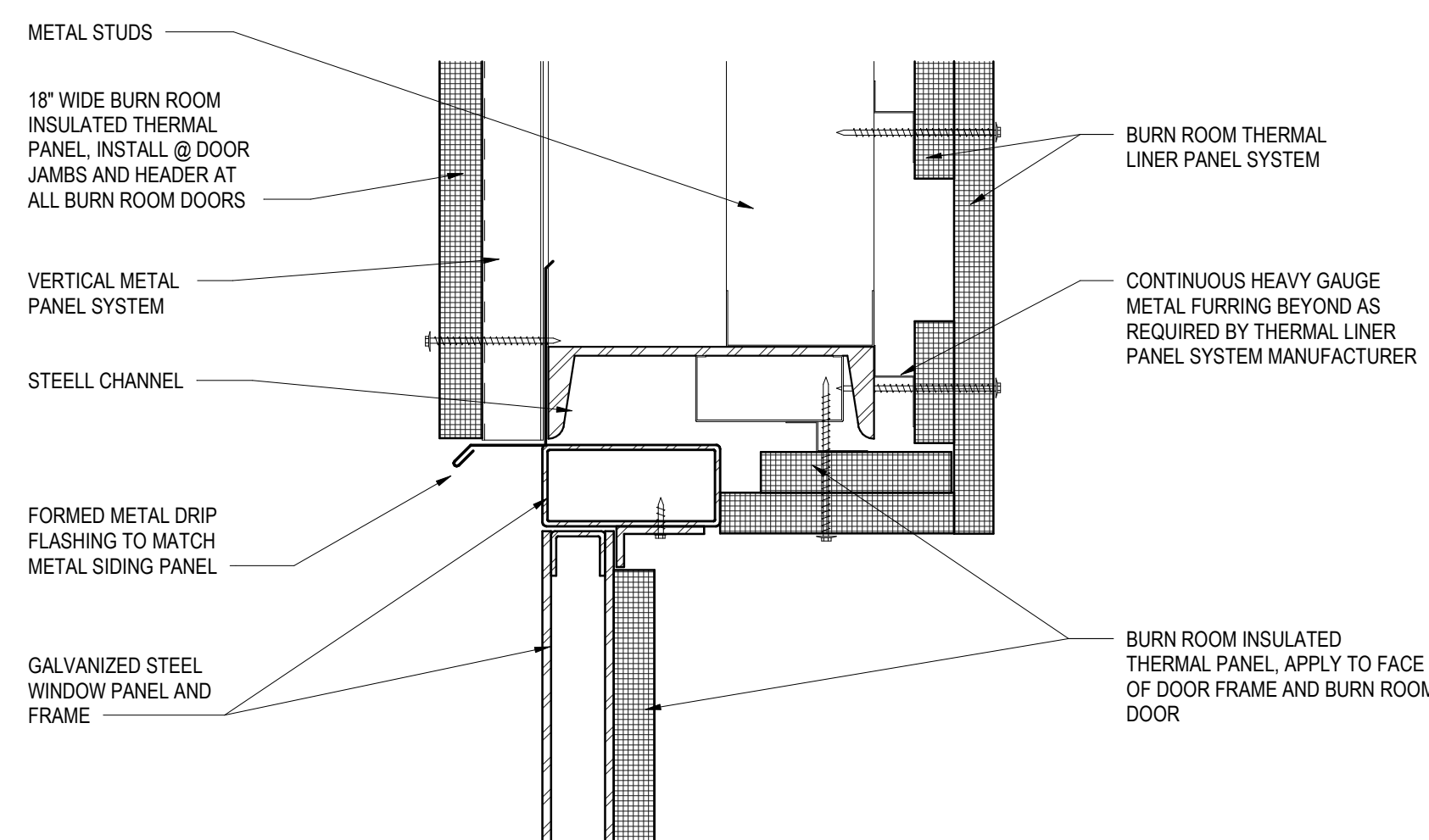


12 TYPICAL WINDOW SILL
 A6.1 3" = 1'-0"

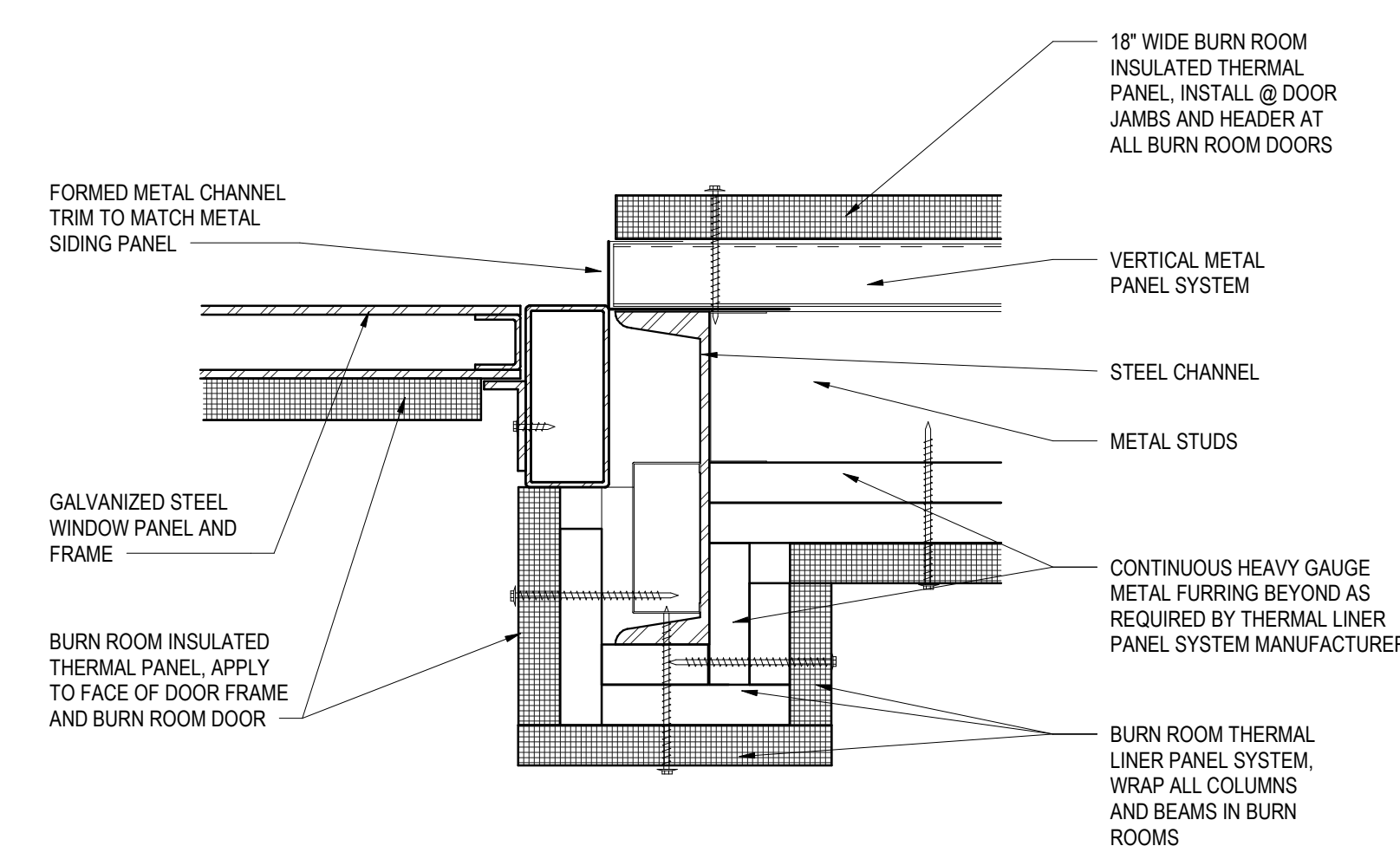
WINDOW TYPES



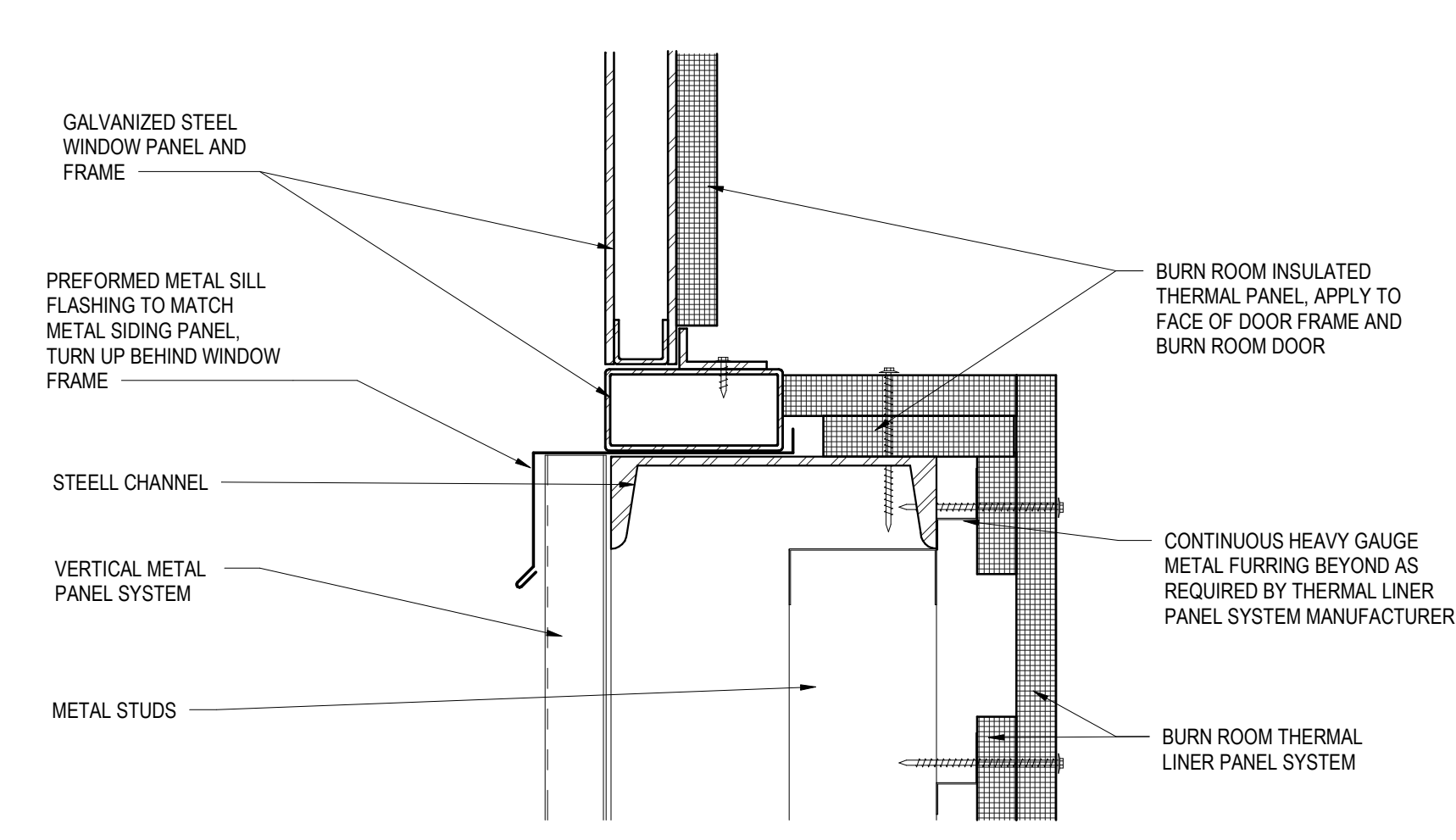
W1



13 WINDOW HEAD DETAIL - BURN ROOMS
 A6.1 3" = 1'-0"



14 WINDOW JAMB DETAIL - BURN ROOMS
 A6.1 3" = 1'-0"



15 WINDOW SILL DETAIL - BURN ROOMS
 A6.1 3" = 1'-0"

REVISIONS

NO.	DATE	DESCRIPTION OF CHANGES

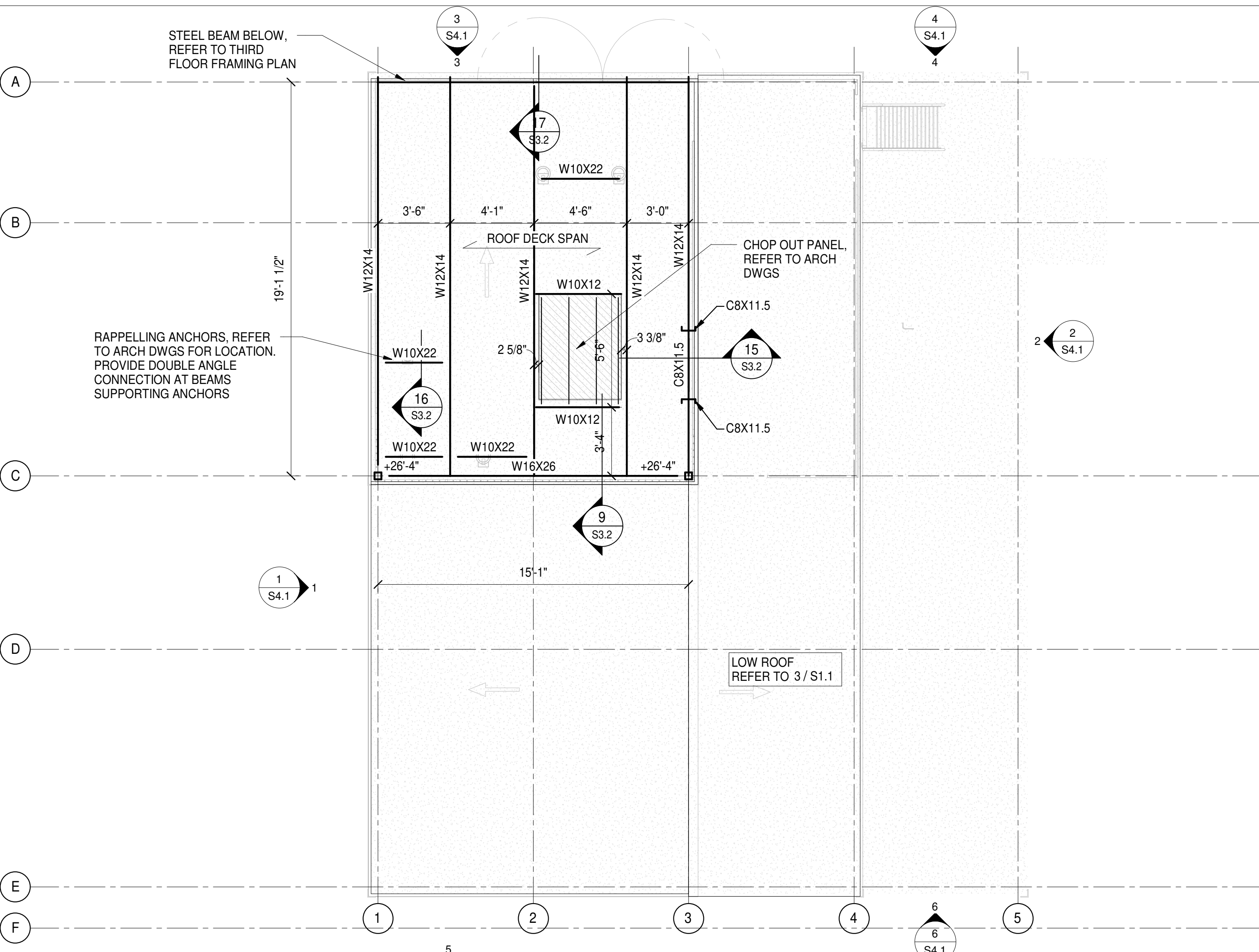
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DOOR SCHEDULE, FRAME AND DOOR TYPES, DOOR AND WINDOW DETAILS
 PLOT SCALE: As indicated
 FILENAME:
 DATE: 5/16/2022

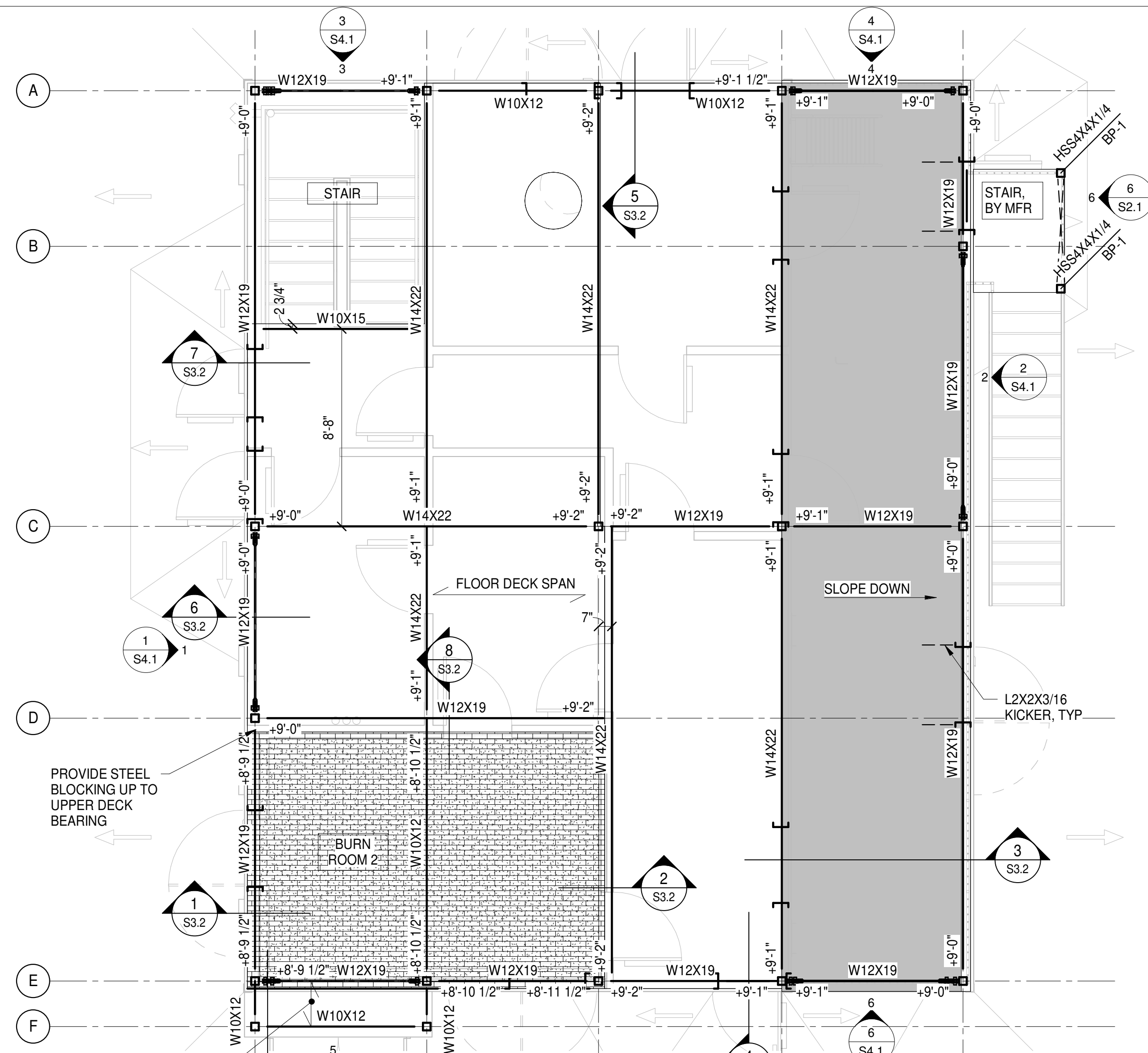
PROJECT
 3461
A6.1



4 ROOF FRAMING PLAN

1/4" = 1'-0"

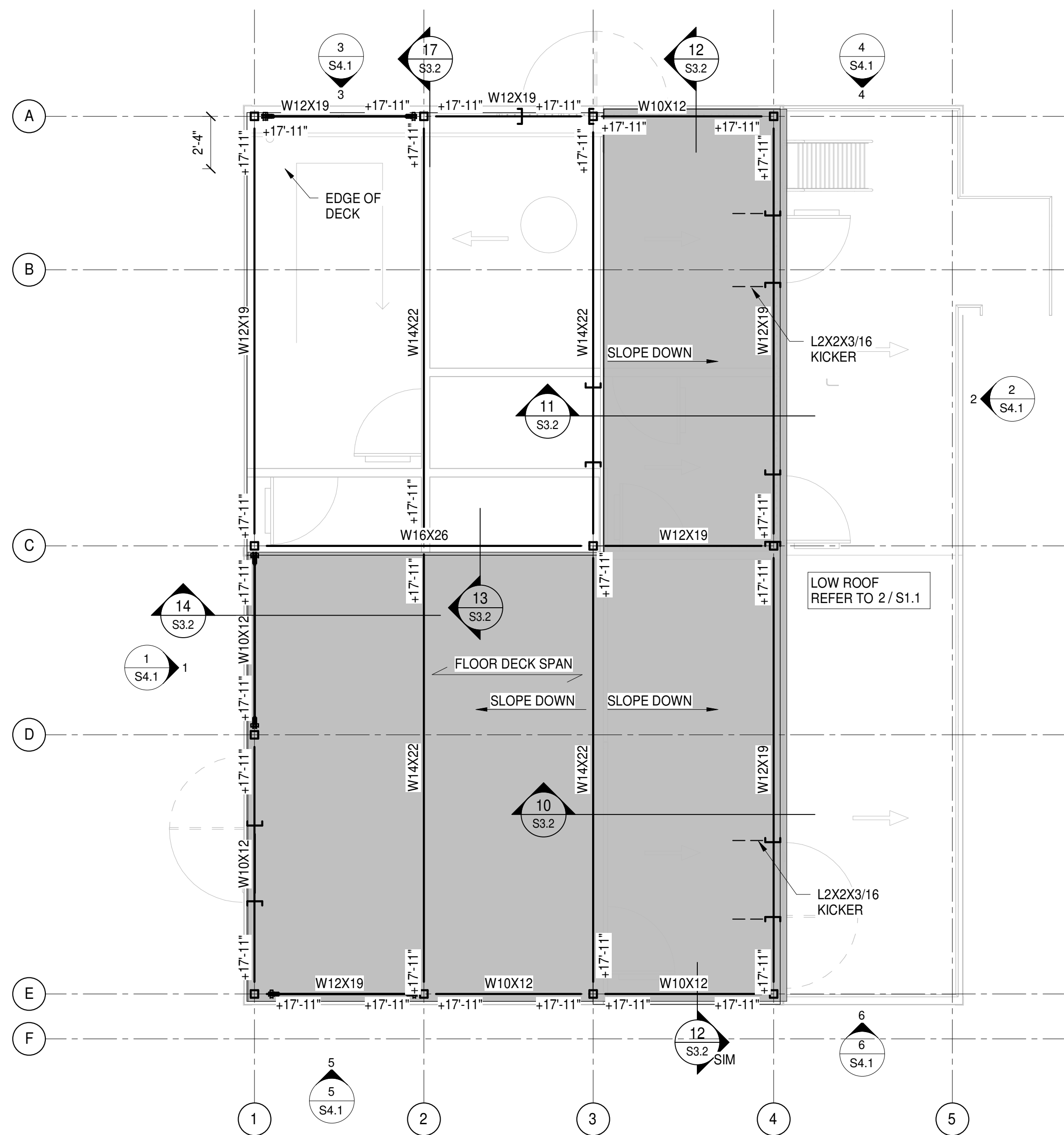
1. TOP OF STEEL W-SHAPE BEAMS AND GIRDERS NOTED THUS (XX'-X") RELATIVE TO FIRST FLOOR.
2. ROOF DECK CONSTRUCTION SHALL BE 1 1/2", 20 GA GALVANIZED STEEL ROOF DECK (TYPE B).



2 SECOND FLOOR FRAMING PLAN

1/4" = 1'-0"

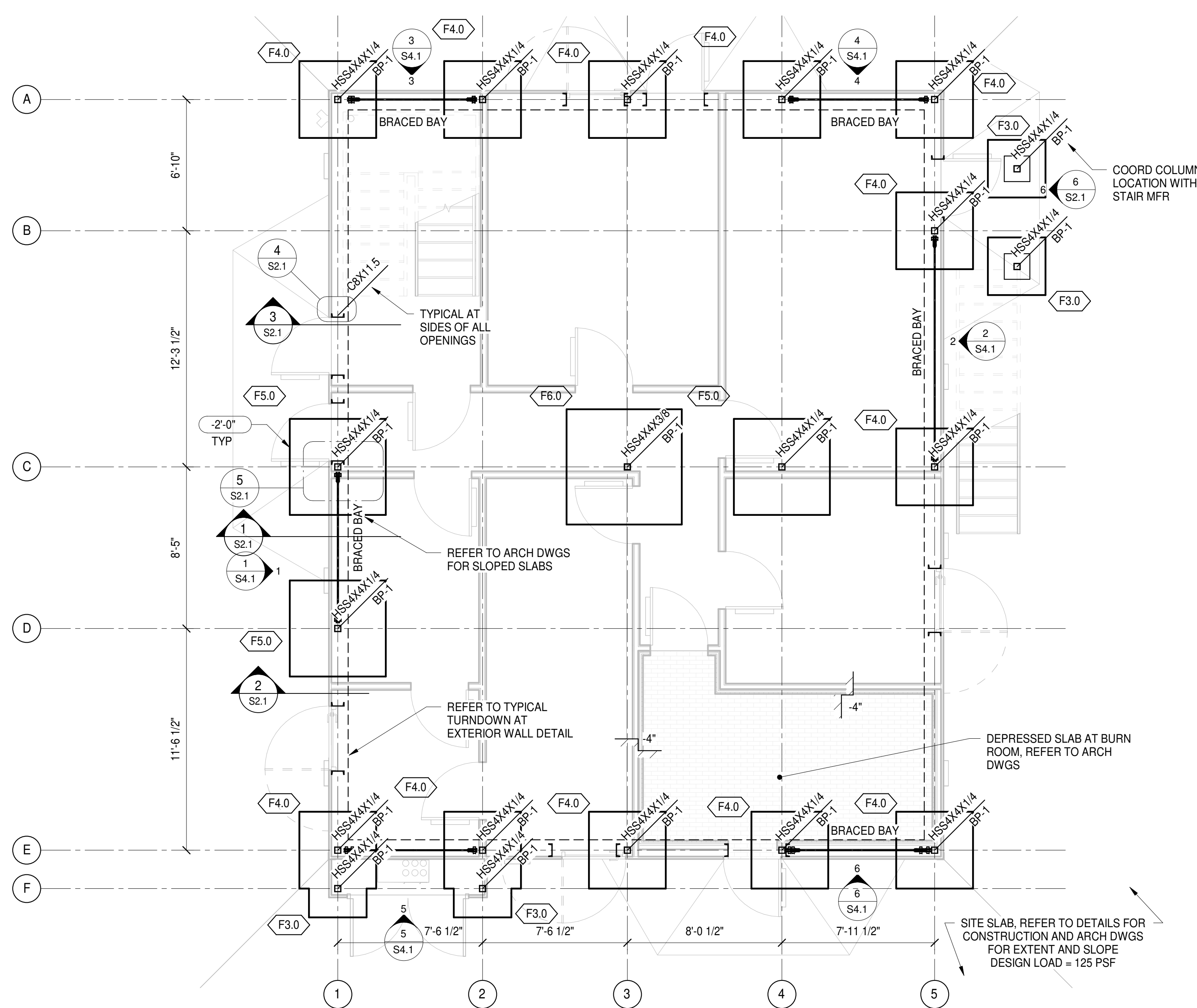
1. TOP OF STEEL W-SHAPE BEAMS AND GIRDERS NOTED THUS (XX'-X") RELATIVE TO FIRST FLOOR.
2. FLOOR DECK CONSTRUCTION = 4" TOTAL THICKNESS NORMAL WEIGHT CONCRETE SLAB ON 2", 20 GAGE COMPOSITE STEEL DECK (TYPE VI).



3 UPPER ROOF DECK

1/4" = 1'-0"

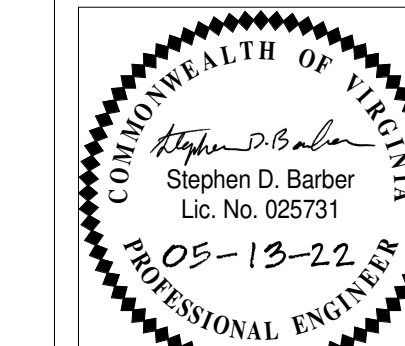
1. TOP OF STEEL W-SHAPE BEAMS AND GIRDERS ELEVATION NOTED THUS (XX'-X") RELATIVE TO FIRST FLOOR.
2. FLOOR DECK CONSTRUCTION = 4" TOTAL THICKNESS NORMAL WEIGHT CONCRETE SLAB ON 2", 20 GAGE COMPOSITE STEEL DECK (TYPE VI).



1 FOUNDATION PLAN

1/4" = 1'-0"

1. TYPICAL SLAB-ON-GRADE SHALL BE 5" NORMAL WEIGHT CONCRETE WITH 6X6-W2.9XW2.9 WWF AT MID-DEPTH, OVER VAPOR BARRIER/RETARDER (REF ARCH DWGS), OVER 6" POROUS FILL.
2. TOP OF SLAB ELEVATION = 367.00' = REFERENCE DATUM (+0'-0"). COORDINATE SLAB DEPRESSIONS WITH ARCHITECTURAL DRAWINGS OR FLOOR FINISH MANUFACTURER OR EQUIPMENT PROVIDED.



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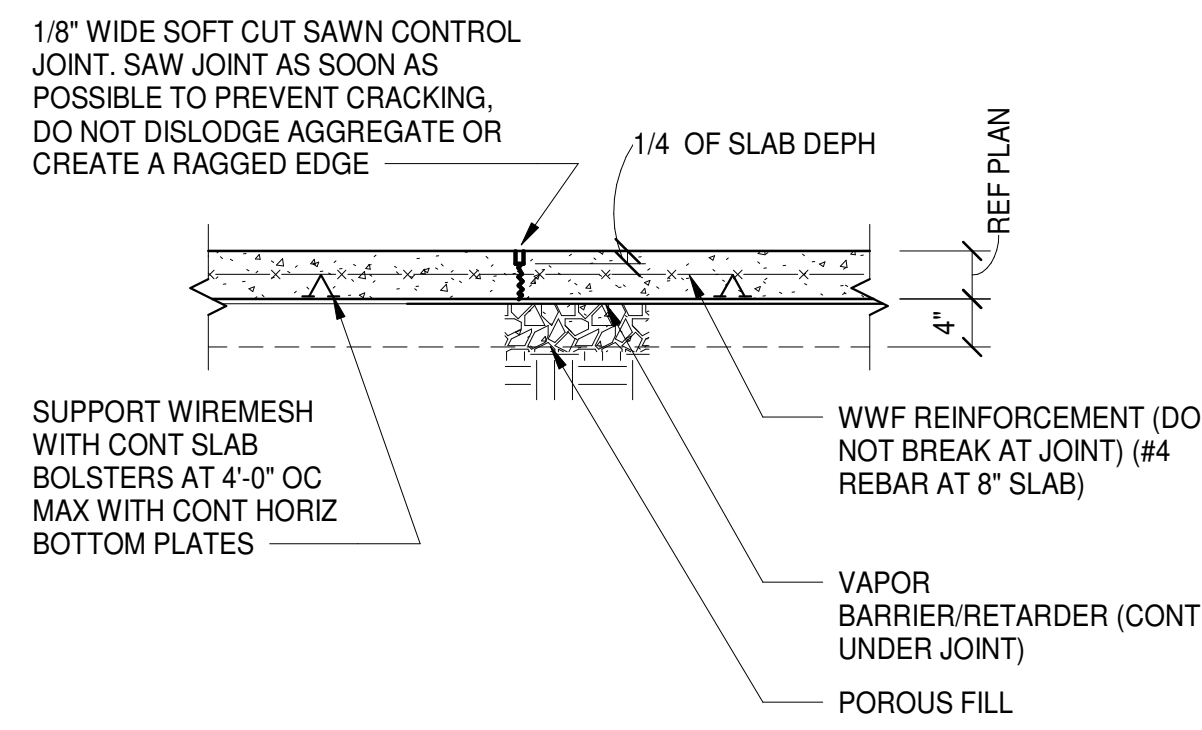
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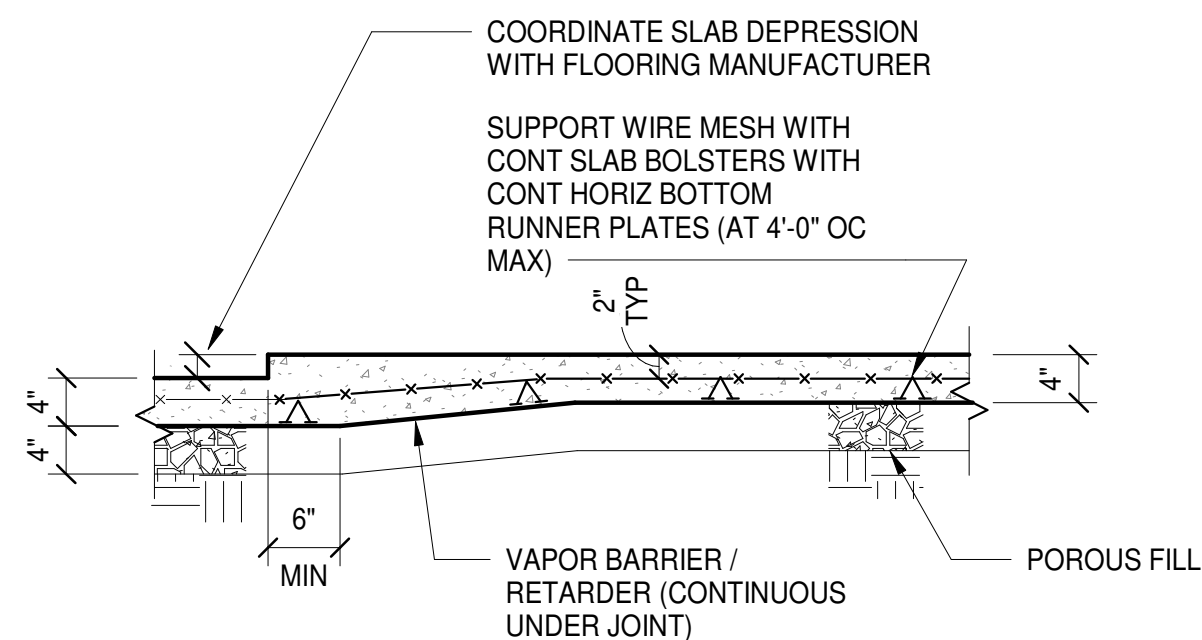
FOUNDATION AND FRAMING PLANS

PROJECT 3461
 FILENAME:
 DATE: 05/13/2022

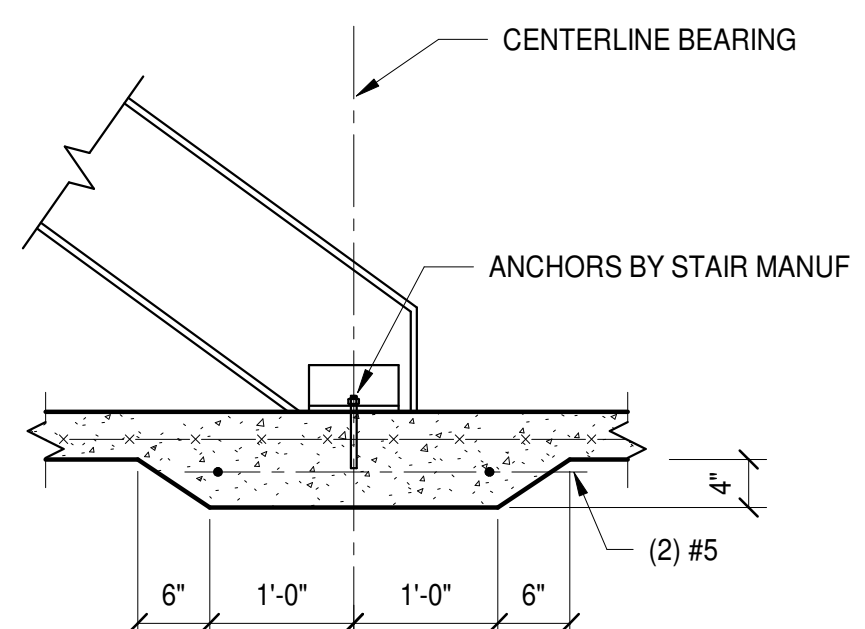
PROJECT 3461
S1.1



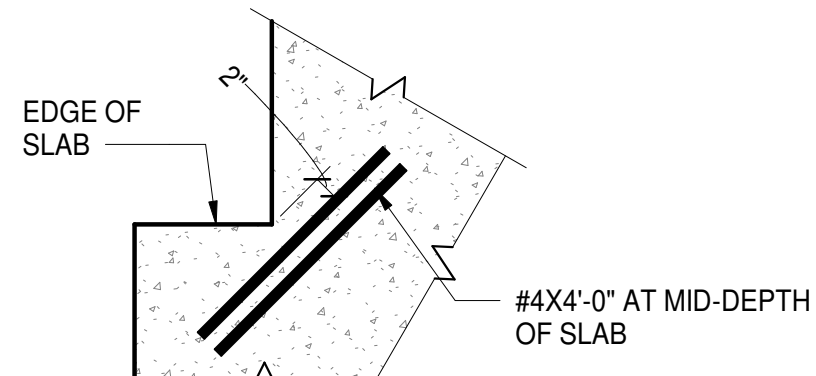
TYPICAL SLAB-ON-GRADE AND CONTROL JOINT DETAIL
3/4" = 1'-0"



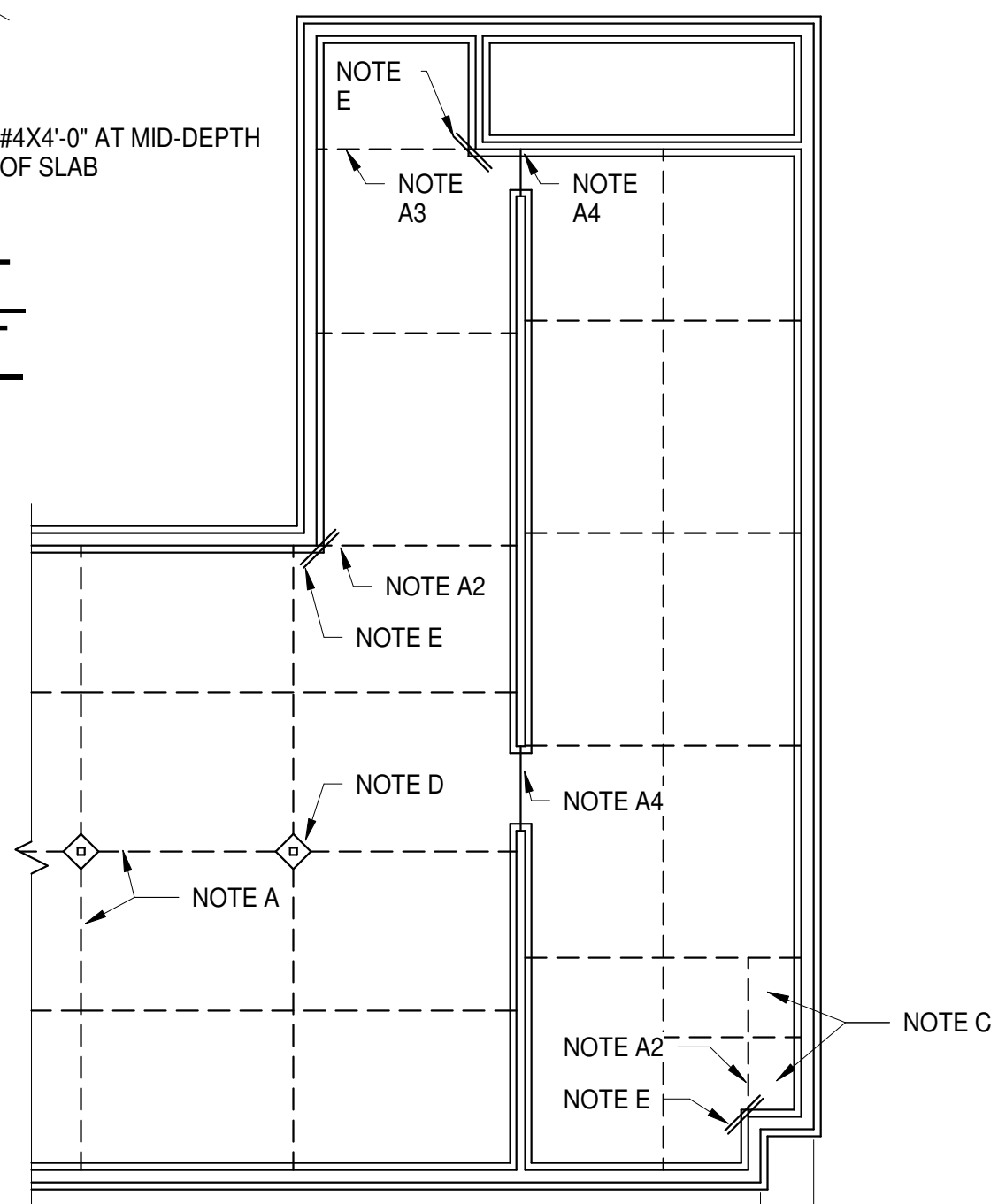
TYPICAL SHALLOW DEPRESSED SLAB-ON-GRADE (LESS THAN 6" DEPRESSION)
3/4" = 1'-0"



SLAB-ON-GRADE BELOW STAIR STRINGER
3/4" = 1'-0"



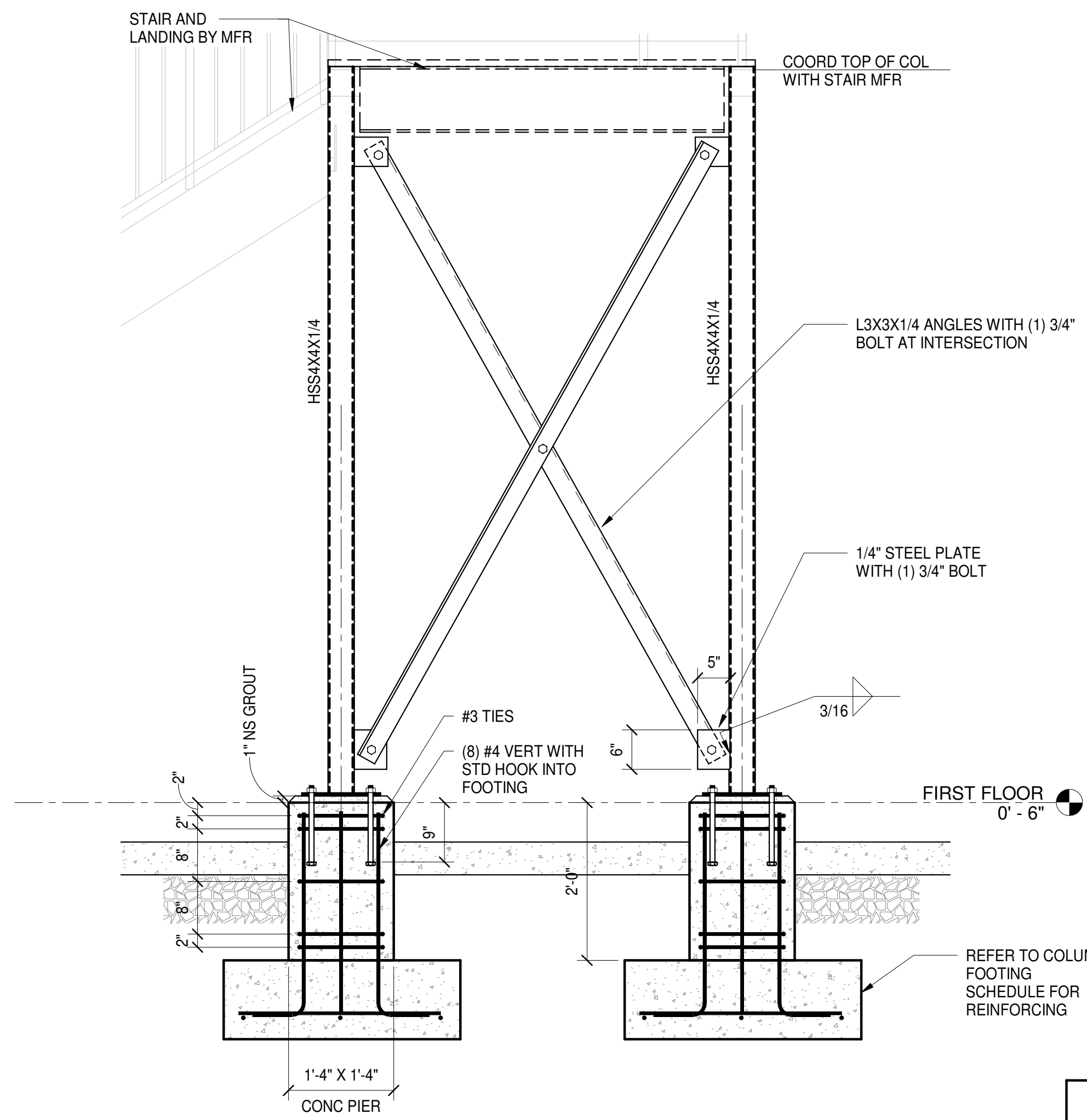
TYP REINF AT RE-ENTRANT CORNERS
3/4" = 1'-0"



EXAMPLE SLAB-ON-GRADE JOINT LAYOUT
1/16" = 1'-0"

JOINT PLACEMENT GUIDELINE

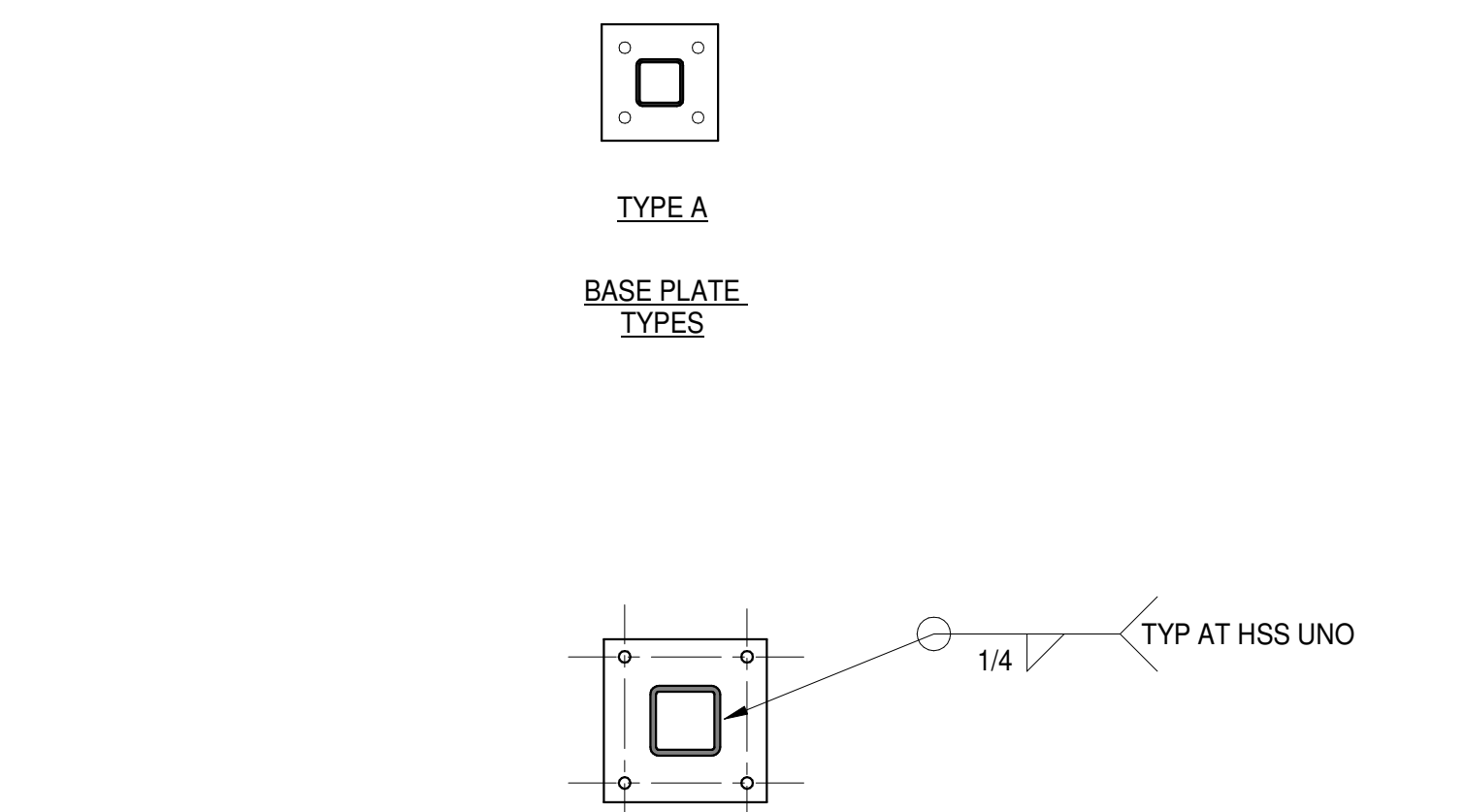
- A. SPACE JOINTS NO MORE THAN THE FOLLOWING:
 - 1. 16 FEET APART. 4" SLABS (12 FEET APART WITH FIBER REINF)
 - 2. SUBDIVIDE SLAB AREAS TO LIMIT LENGTH TO WIDTH RATIO OF SLAB AREA TO 2 TO 1 MAXIMUM. PROVIDE SQUARE SLAB AREA WHERE PRACTICAL.
- B. PROVIDE (2) #4 BARS AT RE-ENTRANT CORNERS OF SLAB PER TYPICAL DETAIL.
- C. IN ADDITION TO GUIDELINES ABOVE, COORDINATE CONTROL JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS AND FINISH FLOORING INSTALLER.



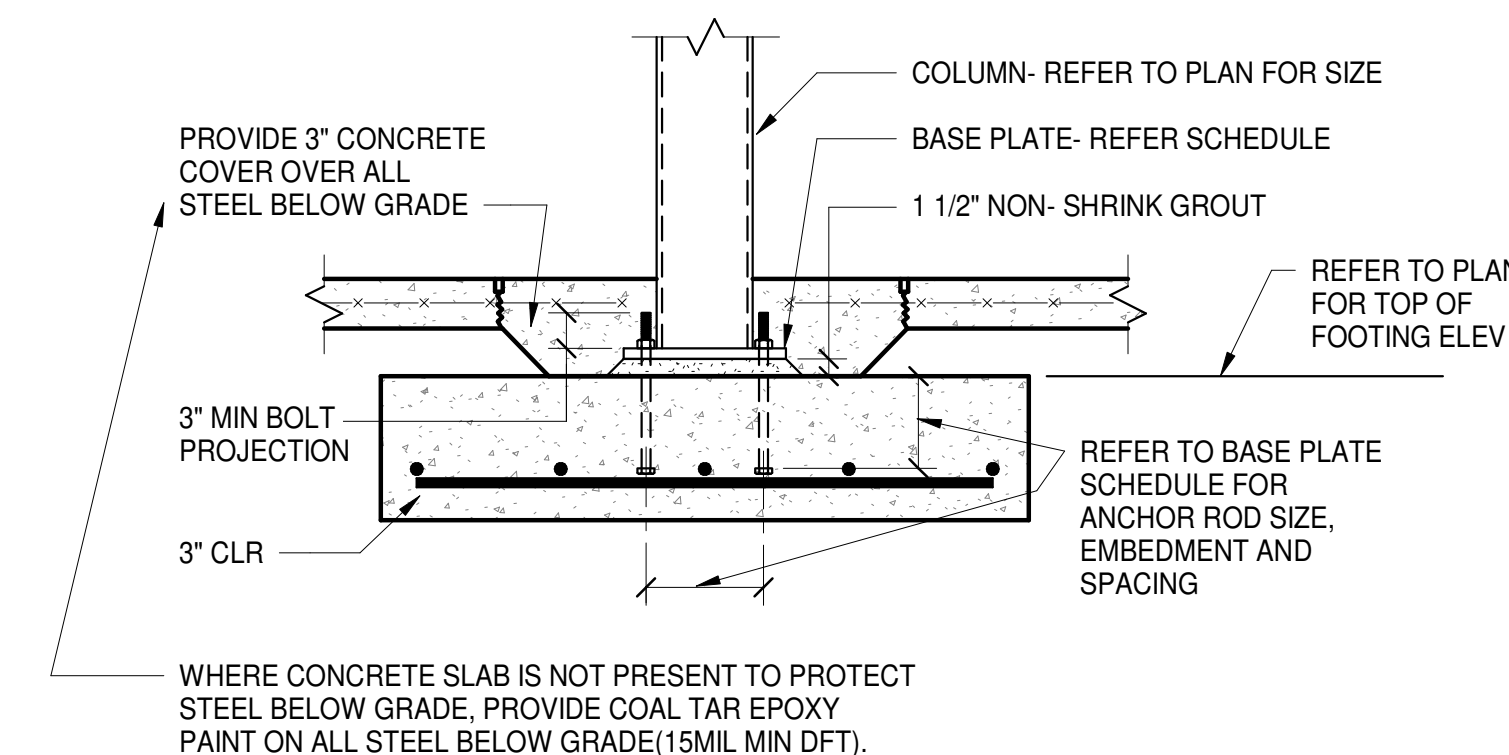
DETAIL 6
3/4" = 1'-0"
S1.1 S2.1

COLUMN FOOTING SCHEDULE						
MARK	LENGTH	WIDTH	THICKNESS	REINFORCING	MAXIMUM LOAD	
F3.0	3'-0"	3'-0"	1'-0"	(5) #4 EA WAY		
F4.0	4'-0"	4'-0"	1'-0"	(4) #5 EA WAY		
F5.0	5'-0"	5'-0"	1'-0"	(5) #5 EA WAY		
F6.0	6'-0"	6'-0"	1'-2"	(7) #5 EA WAY		

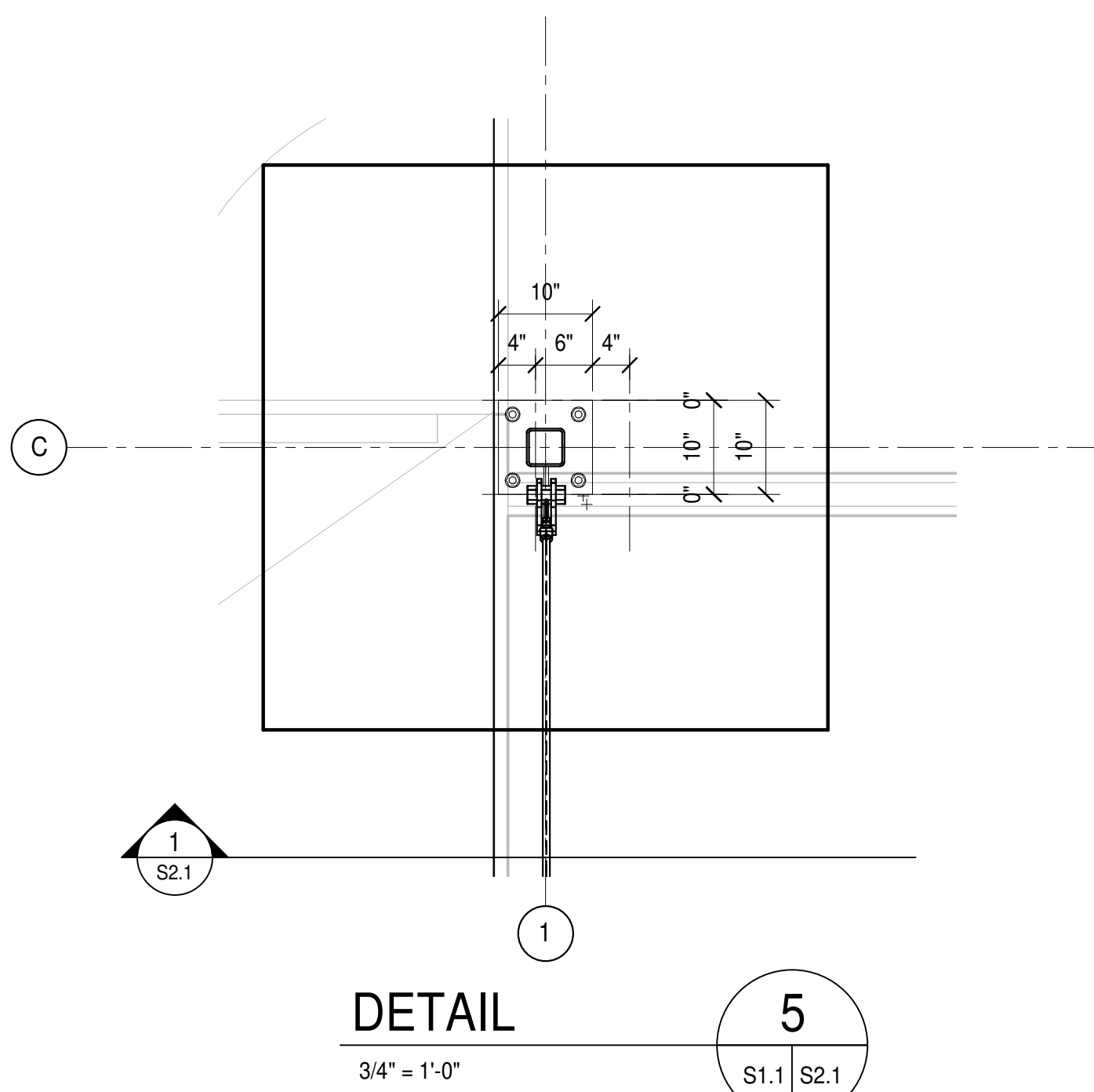
COLUMN BASE PLATE SCHEDULE						
MARK	SIZE	HEADED ANCHOR RODS ASTM F1554 Fy=36 KSI UNO	ROD EMBED	ROD GAUGE	BASE PL TYPE	COMMENTS
BP-1	3/4X10X0'-10"	(4) 3/4" DIA	9"	-	A	FOR HSS4x4 COLUMNS



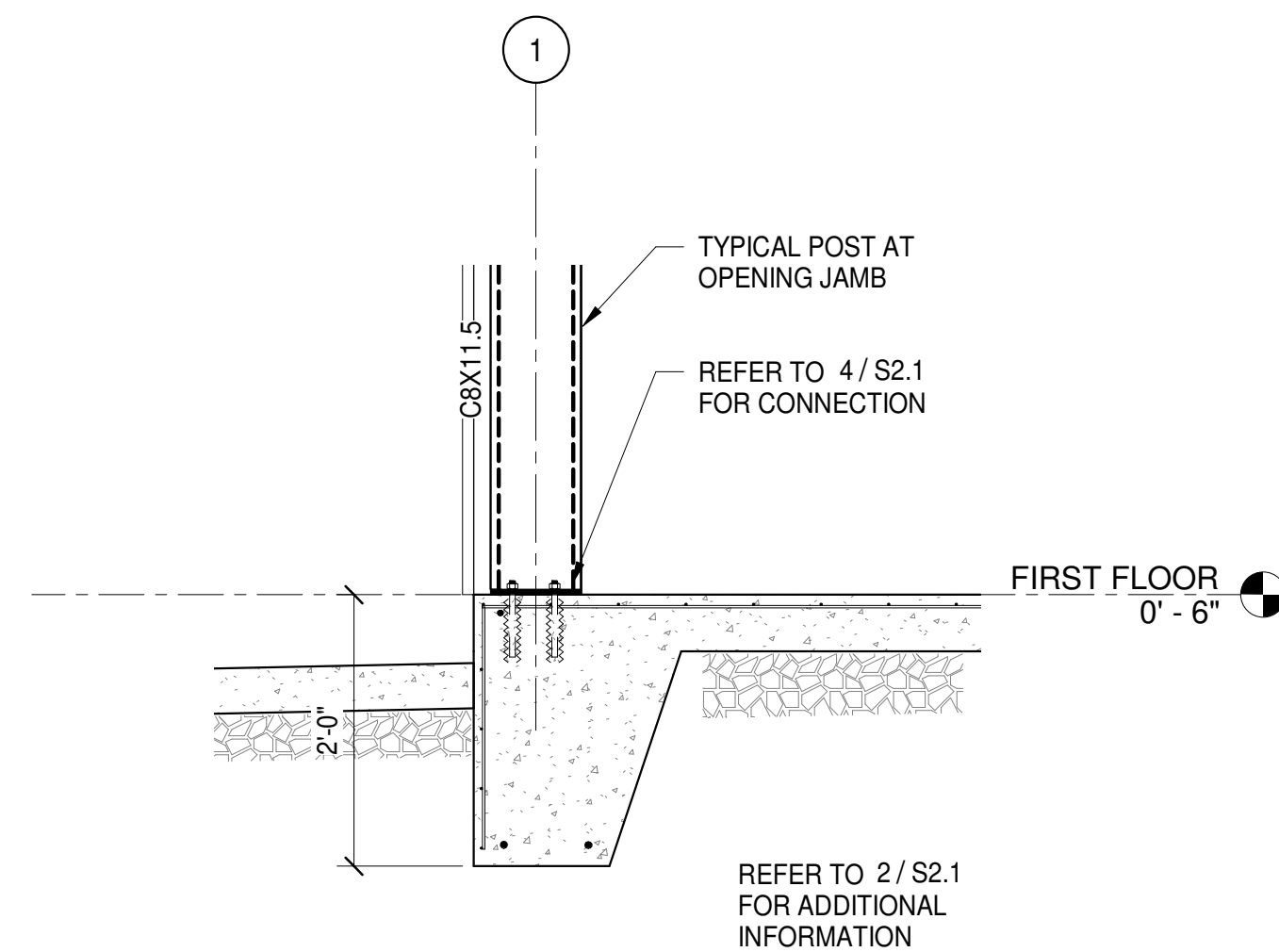
DETAIL 3
1 1/2" = 1'-0"
S1.1 S2.1



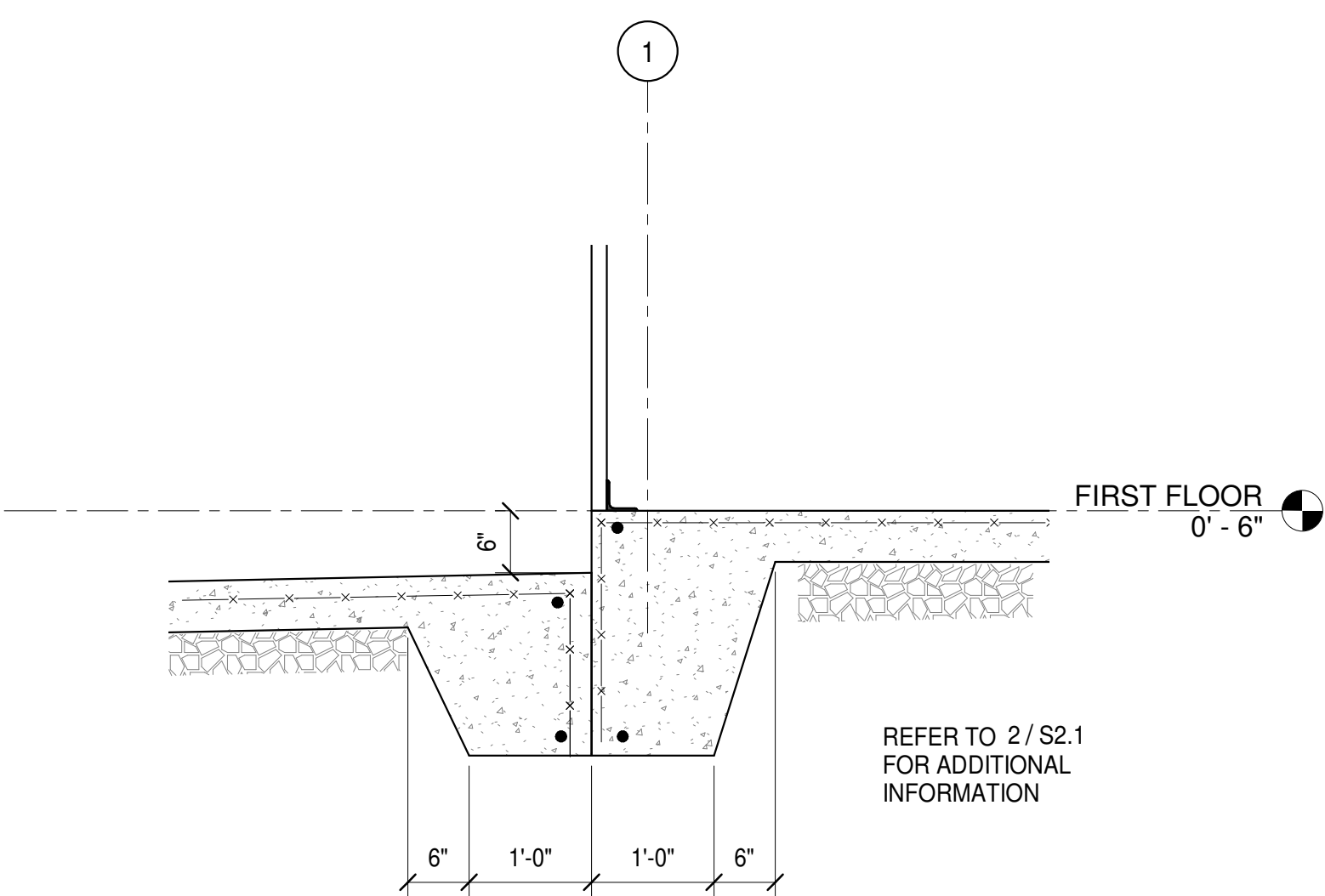
TYPICAL COLUMN FOOTING
3/4" = 1'-0"



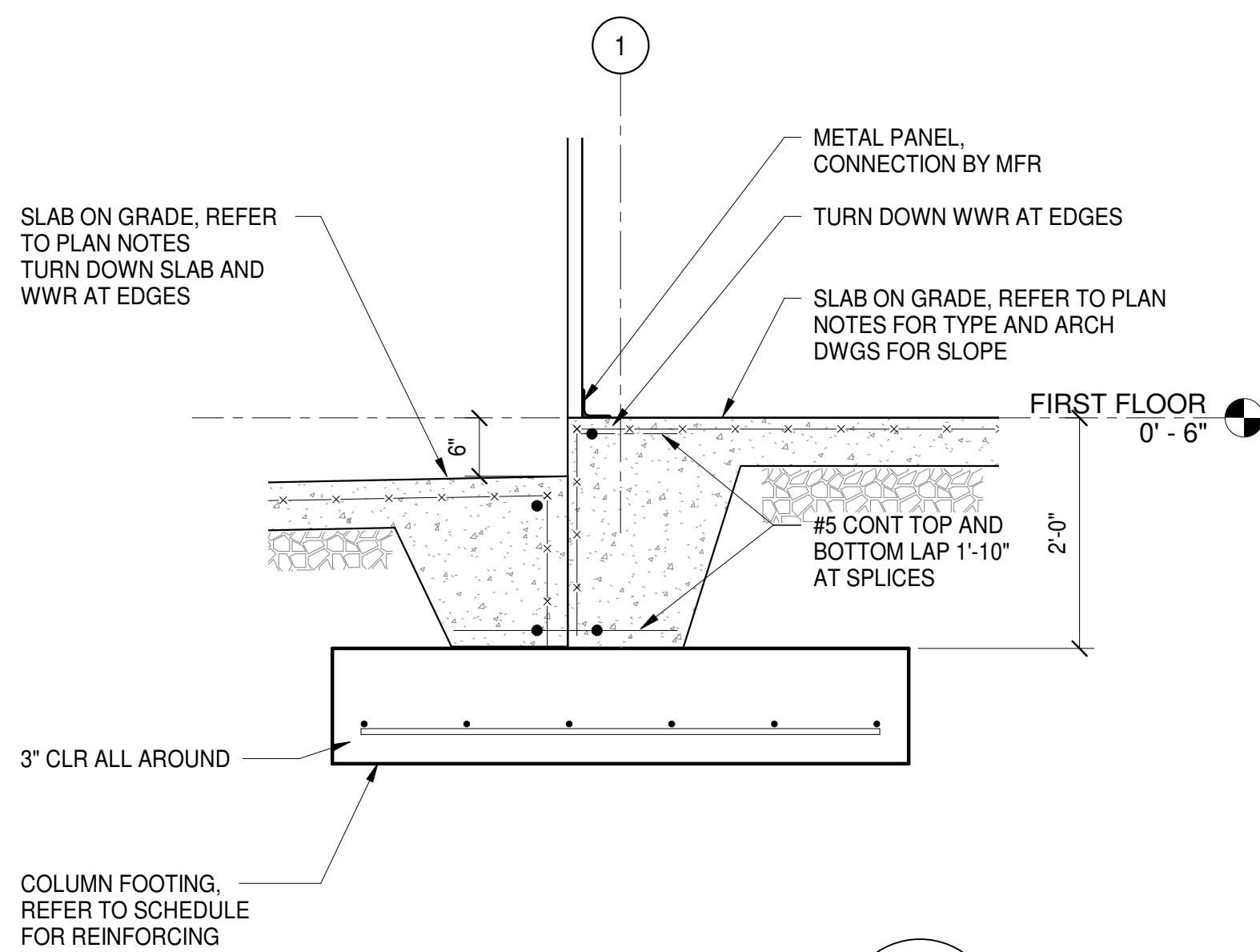
DETAIL 5
3/4" = 1'-0"
S1.1 S2.1



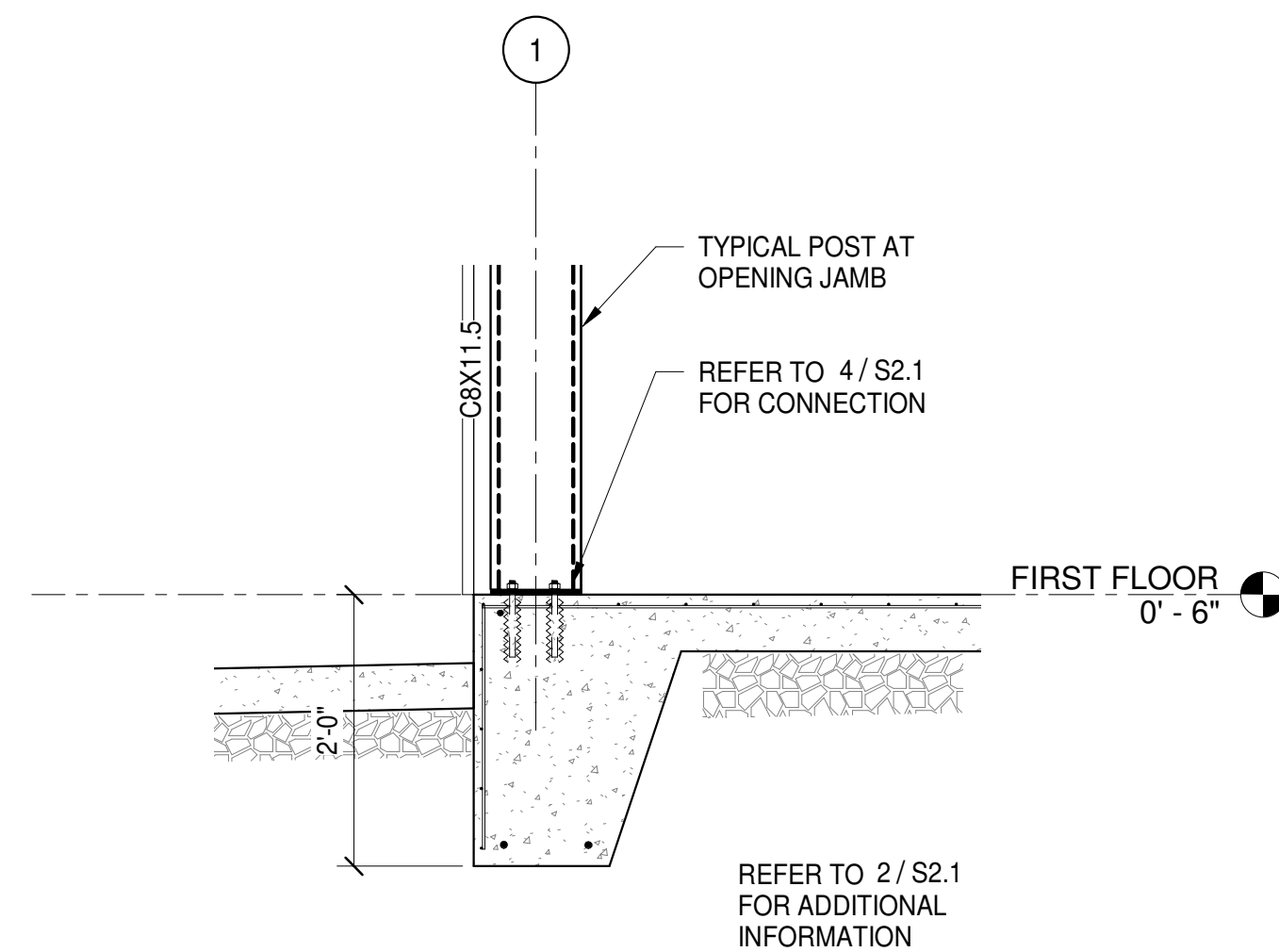
DETAIL 4
1 1/2" = 1'-0"
S1.1 S2.1



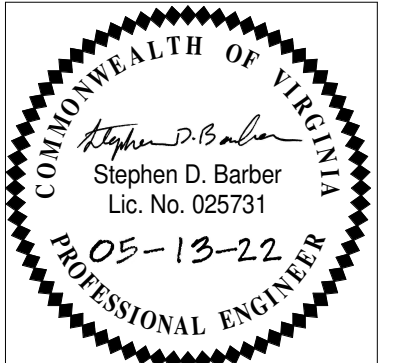
SECTION 1
3/4" = 1'-0"
S1.1 S2.1



SECTION 2
3/4" = 1'-0"
S1.1 S2.1



SECTION 3
3/4" = 1'-0"
S1.1 S2.1



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FOUNDATION DETAILS
 PLOT SCALE: As indicated
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 DATE: 05/13/2022

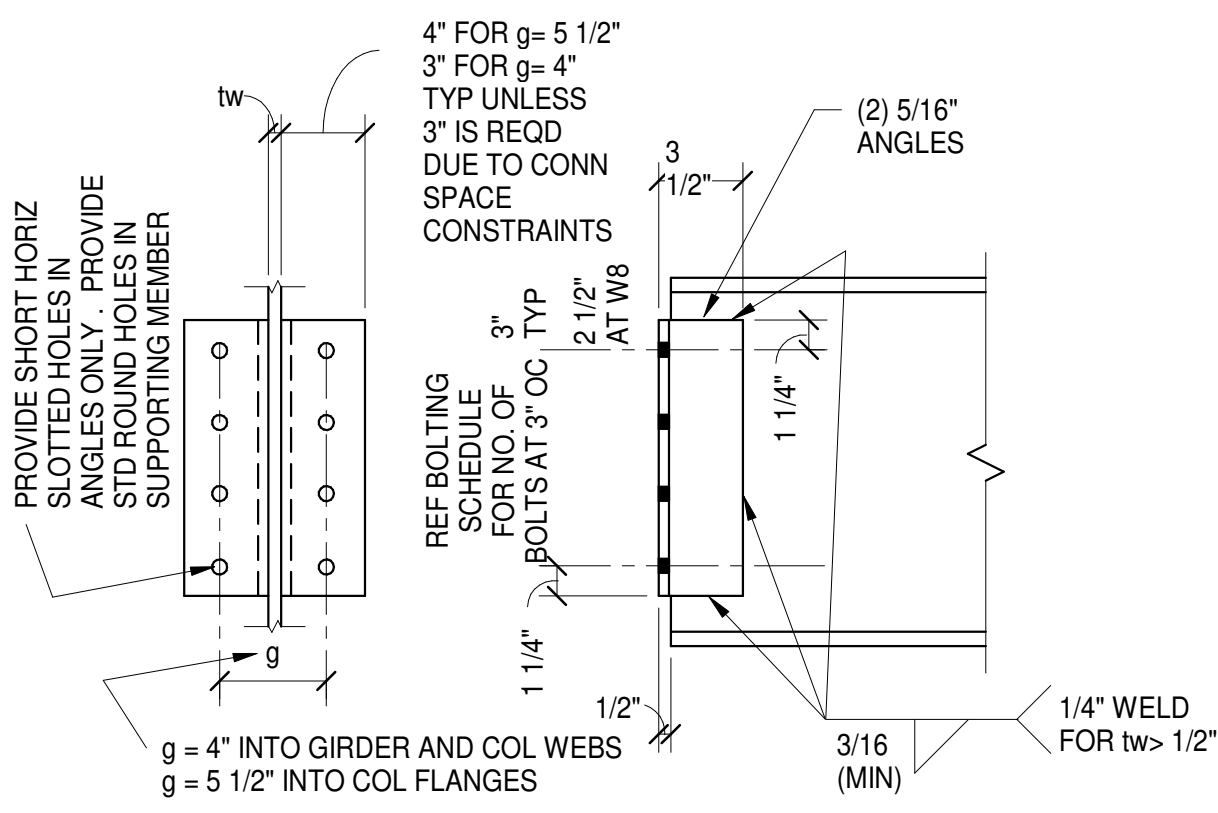
PROJECT
 3461
S2.1

MINIMUM BOLTING SCHEDULE

BEAM SIZE	# OF BOLTS IN SINGLE SHEAR CONN/SINGLE ANGLE		# OF BOLTS IN DOUBLE ANGLE CONN
W8	2	2	2 ANGLE X 2 BOLTS= 4 TOTAL
W10	2	2	2 ANGLE X 2 BOLTS= 4 TOTAL
W12	3	2	2 ANGLE X 3 BOLTS= 6 TOTAL
W14	3	2	2 ANGLE X 3 BOLTS= 6 TOTAL
W16	4	2	2 ANGLE X 4 BOLTS= 8 TOTAL
W18	5	2	2 ANGLE X 4 BOLTS= 8 TOTAL
W21	6	2	2 ANGLE X 5 BOLTS= 10 TOTAL
W24	7	2	2 ANGLE X 5 BOLTS= 10 TOTAL
W27	8	2	2 ANGLE X 6 BOLTS= 12 TOTAL
W30	9	2	2 ANGLE X 6 BOLTS= 12 TOTAL
W33	10	2	2 ANGLE X 7 BOLTS= 14 TOTAL
W36	10	2	2 ANGLE X 8 BOLTS= 16 TOTAL
W40	11	2	2 ANGLE X 9 BOLTS= 18 TOTAL
W44	12	2	2 ANGLE X 10 BOLTS= 20 TOTAL

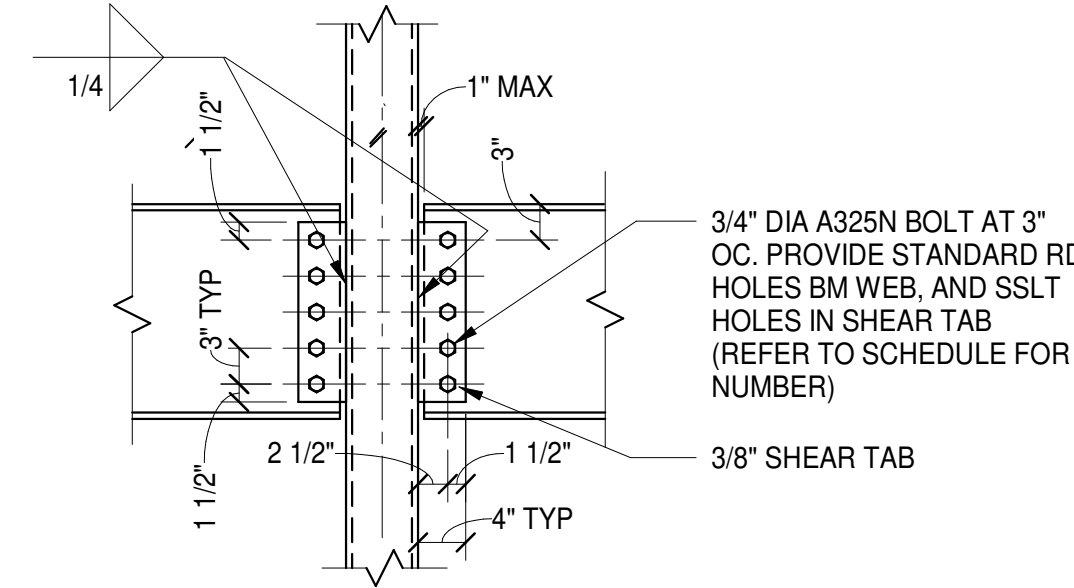
NOTES:

- BOLTS ARE 3/4" DIA ASTM A325N UNO. PROVIDE ASTM F436 WASHERS AT ALL BOLTS.
- BOLT HOLES FOR SINGLE SHEAR CONN OR SINGLE ANGLE CONN SHALL BE HORIZ SHORT- SLOTTED HOLES UNO. PROVIDE STD ROUND HOLES AT FULL HEIGHT STIFF PLATES, OR THRU- PLATES.
- SINGLE SHEAR CONN SHALL BE 3/8" SHEAR TAB OR 3/8" FULL HEIGHT STIFF PLATE AS INDICATED IN DETAILS. REF PLANS FOR 3/8" THRU- PLATE CONNECTION LOCATIONS.
- STANDARD DOUBLE ANGLE THICKNESS SHALL BE 5/16" MINIMUM. USE SHORT HORIZ SLOTTED HOLES IN ANGLE.
- WHERE SLIP CRITICAL CONNECTION OR FULLY PRE- TENSIONED BOLTS ARE INDICATED, USE TENSION CONTROL BOLTS (TWIST-OFF TYPE).
- AT POJ BEAM-TO-GIRDER CONNECTIONS, PROVIDE DOUBLE ANGLE CONNECTION PER THIS SCHEDULE UNLESS NOTED OTHERWISE.

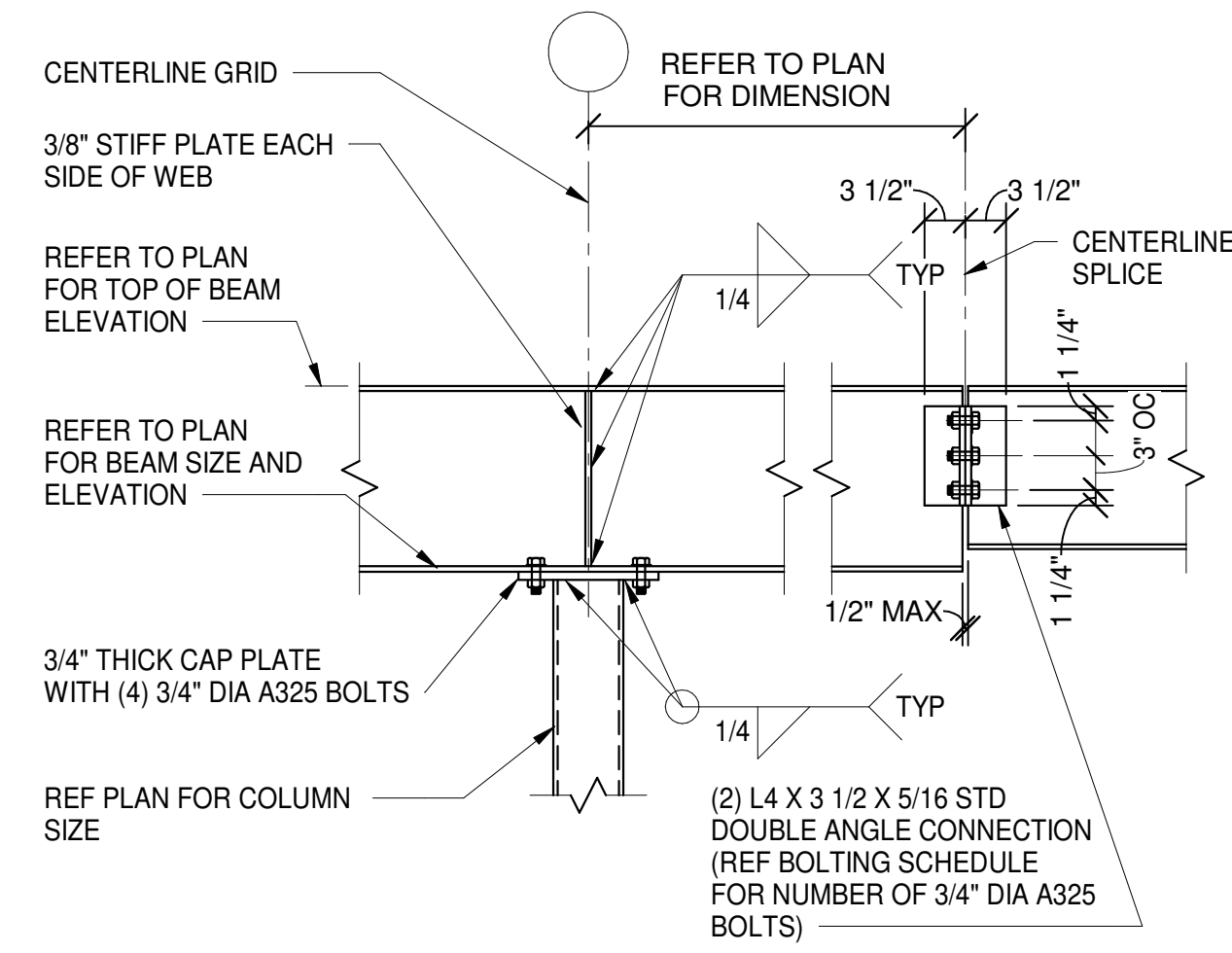


TYPICAL DOUBLE ANGLE CONNECTION
1 1/2" = 1'-0"

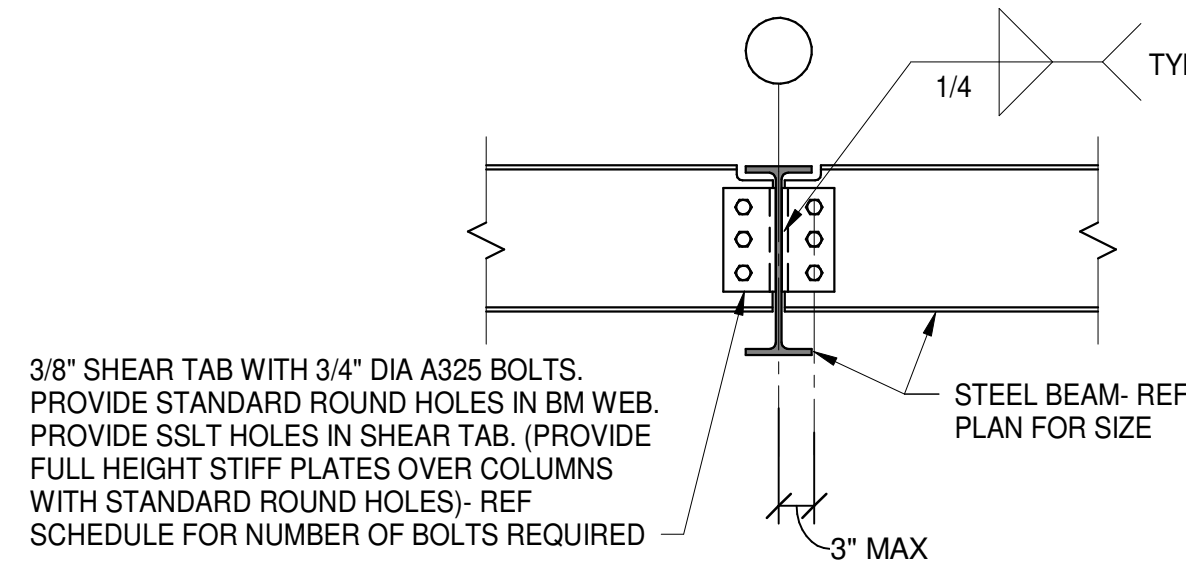
- DETAIL APPLIES AT WIDE FLANGE BEAM CONNECTIONS TO COLUMNS AND OTHER WIDE FLANGE BEAMS.
- AT BEAM TO GIRDER CONNECTIONS, PROVIDE ERECTION SEAT ANGLE FOR ONE BEAM WHERE MEMBERS FRAME OPPOSITE EACH OTHER AND USE SAME NUMBER OF BOLTS.
- REFER TO MINIMUM BOLTING SCHEDULE FOR REQUIRED NUMBER OF ROWS OF BOLTS.



TYPICAL BEAM TO HSS OR PIPE COLUMN CONNECTION
3/4" = 1'-0"

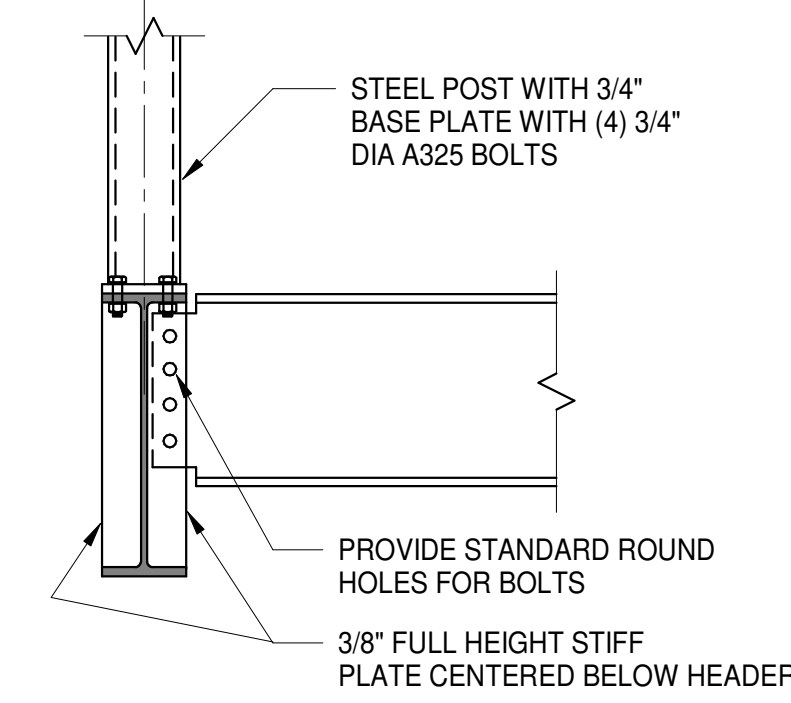


TYPICAL BEAM TO TOP OF COLUMN CONNECTION AND BEAM SPLICE DETAIL
3/4" = 1'-0"

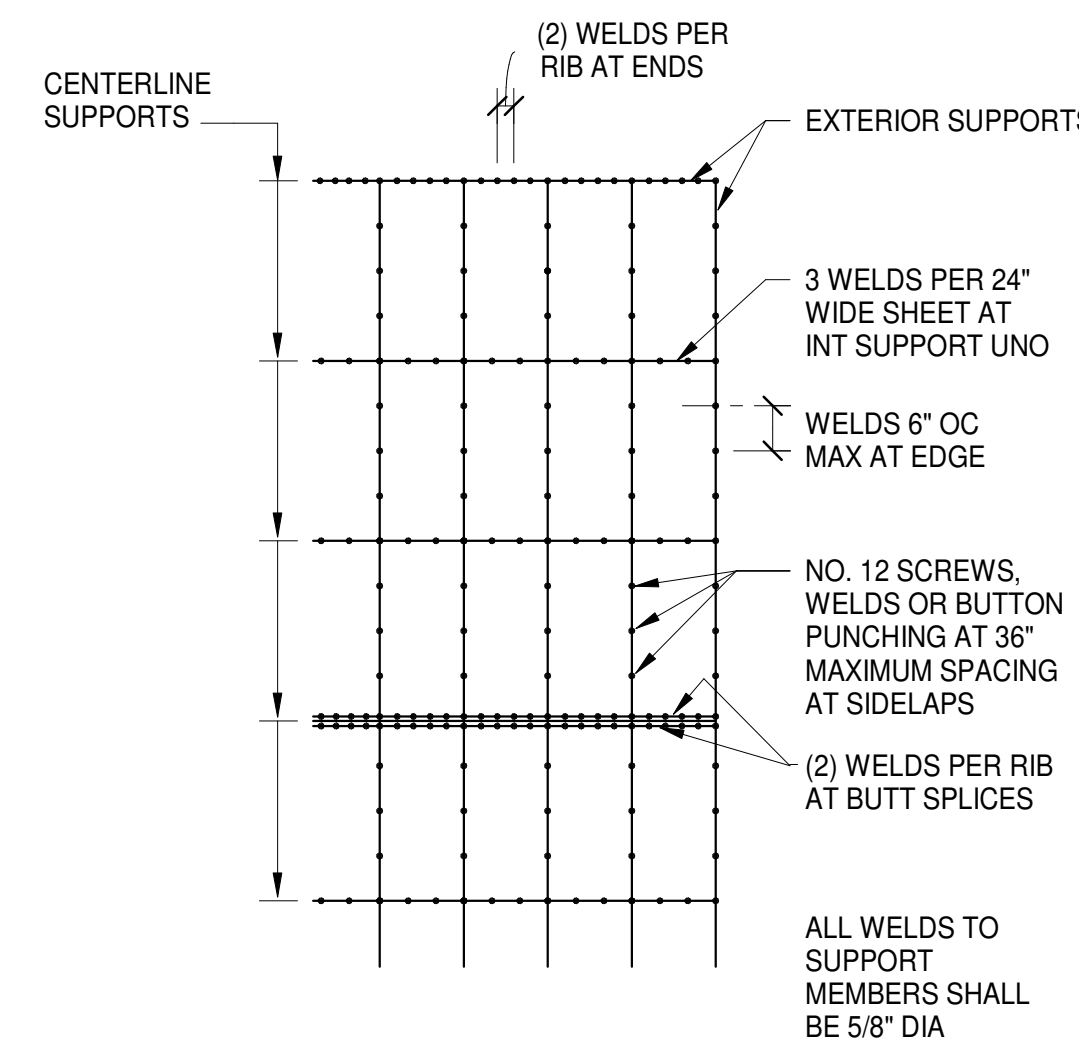


NOTE:
USE DOUBLE ANGLE CONNECTION AT POJ BEAMS.

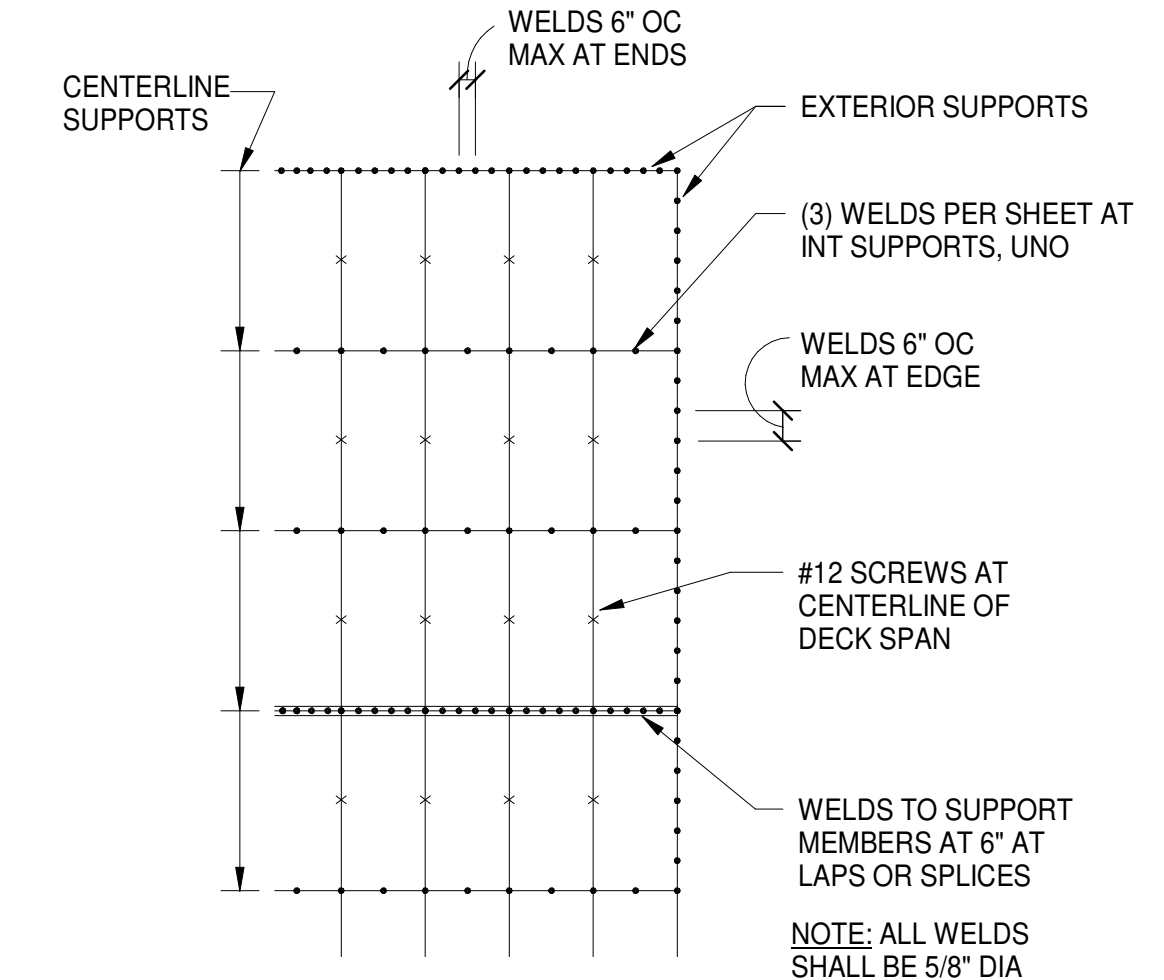
TYPICAL BEAM TO GIRDER CONNECTION
3/4" = 1'-0"



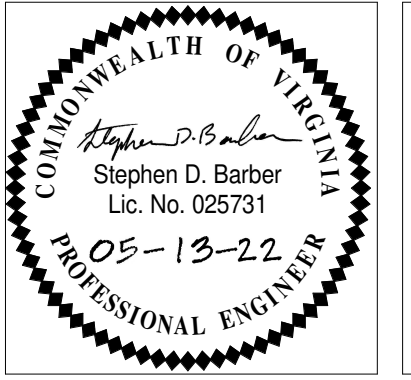
TYPICAL STEEL POST SUPPORT DETAIL
3/4" = 1'-0"



TYPICAL 2" COMPOSITE FLOOR DECK WELDS
NO SCALE



TYPICAL 1 1/2" ROOF DECK WELDS
NO SCALE



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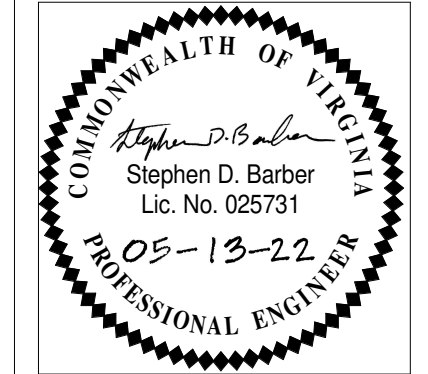
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FRAMING DETAILS
 PLOT SCALE: 3/4" = 1'-0"
 FILENAME:
 DATE: 05/13/2022

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S3.1



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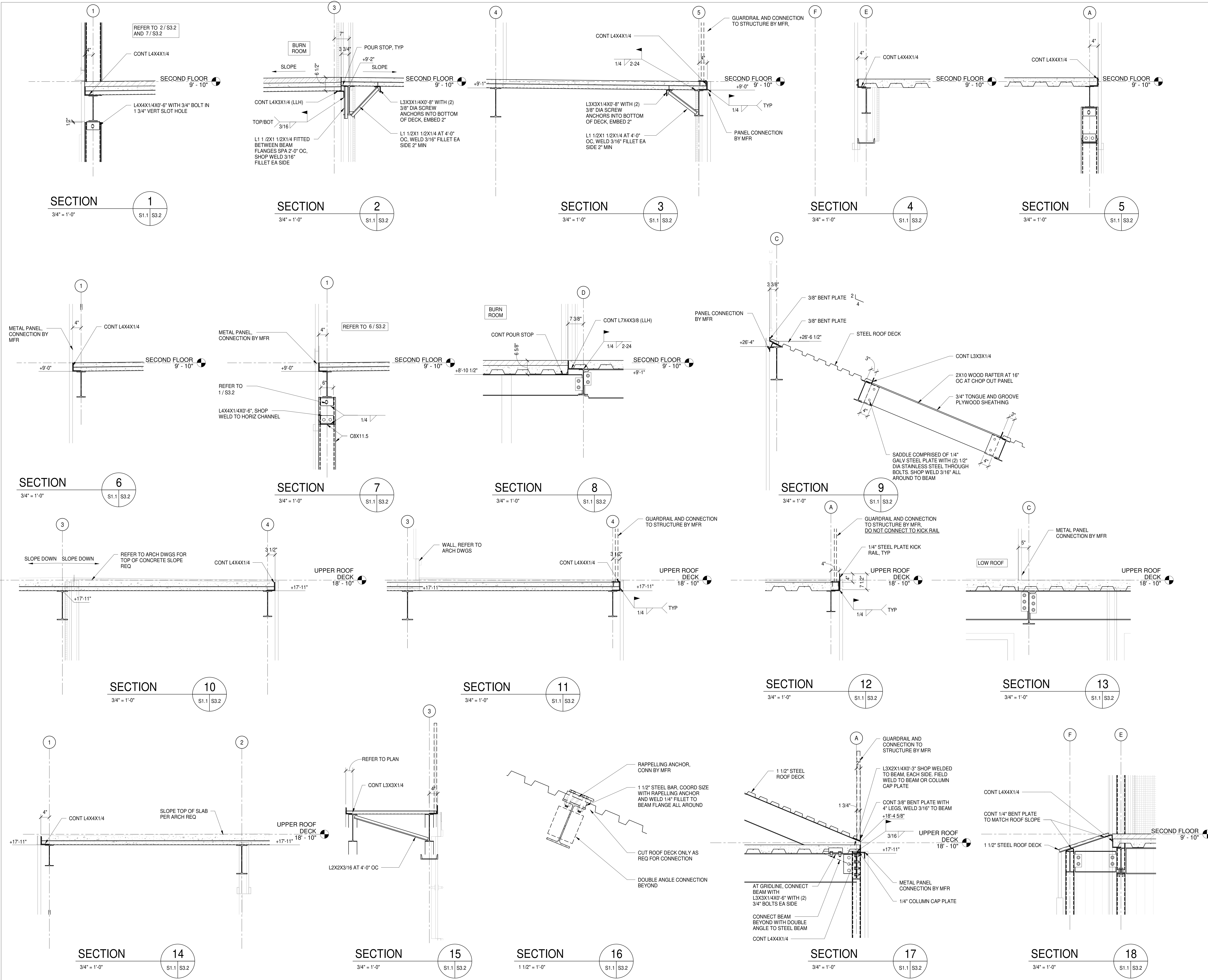
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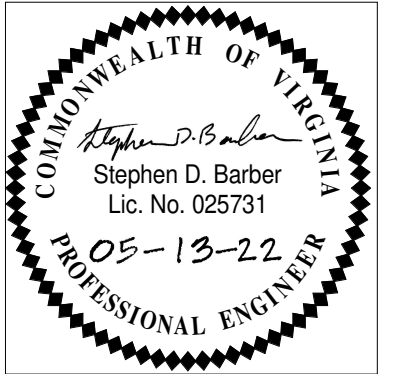
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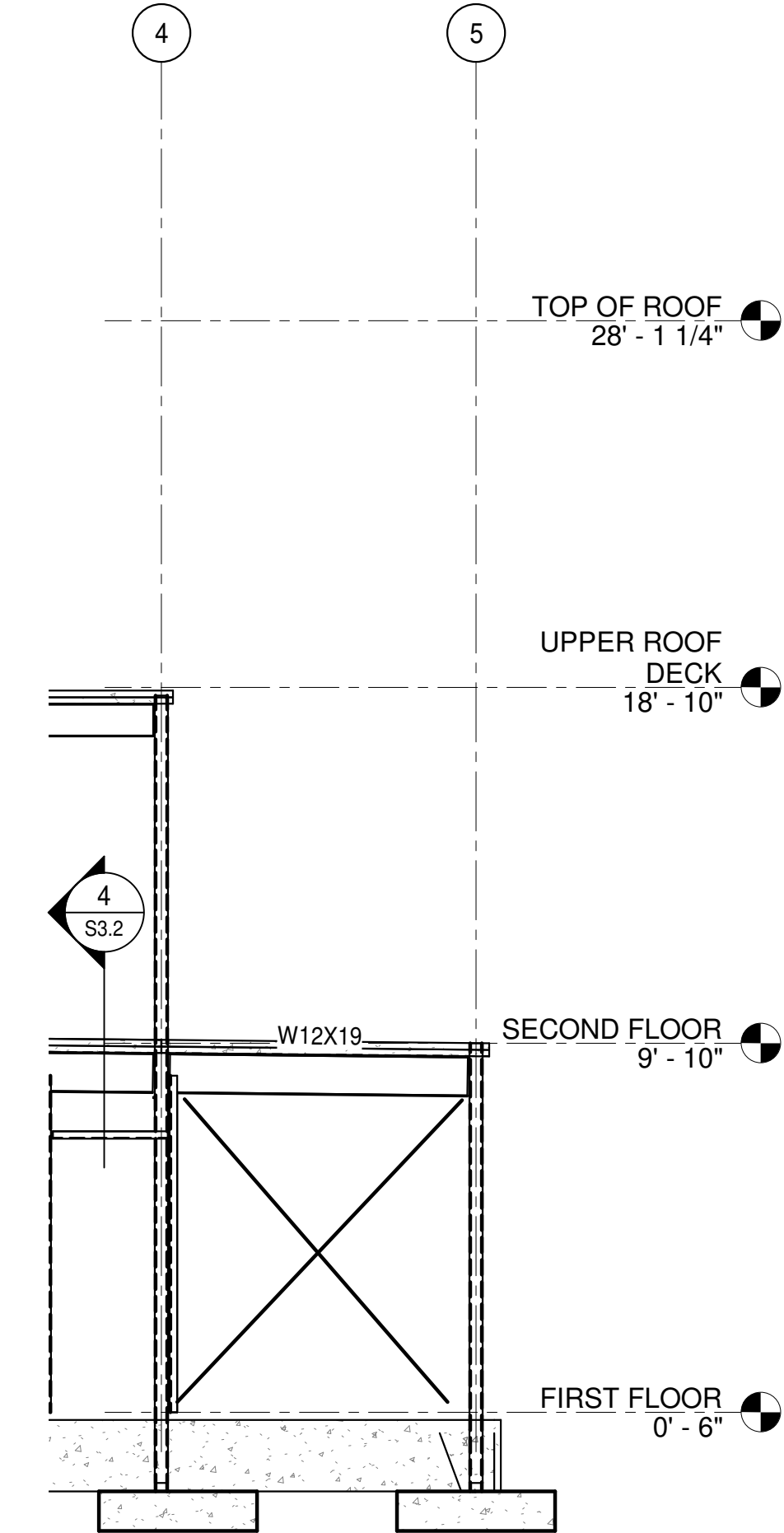
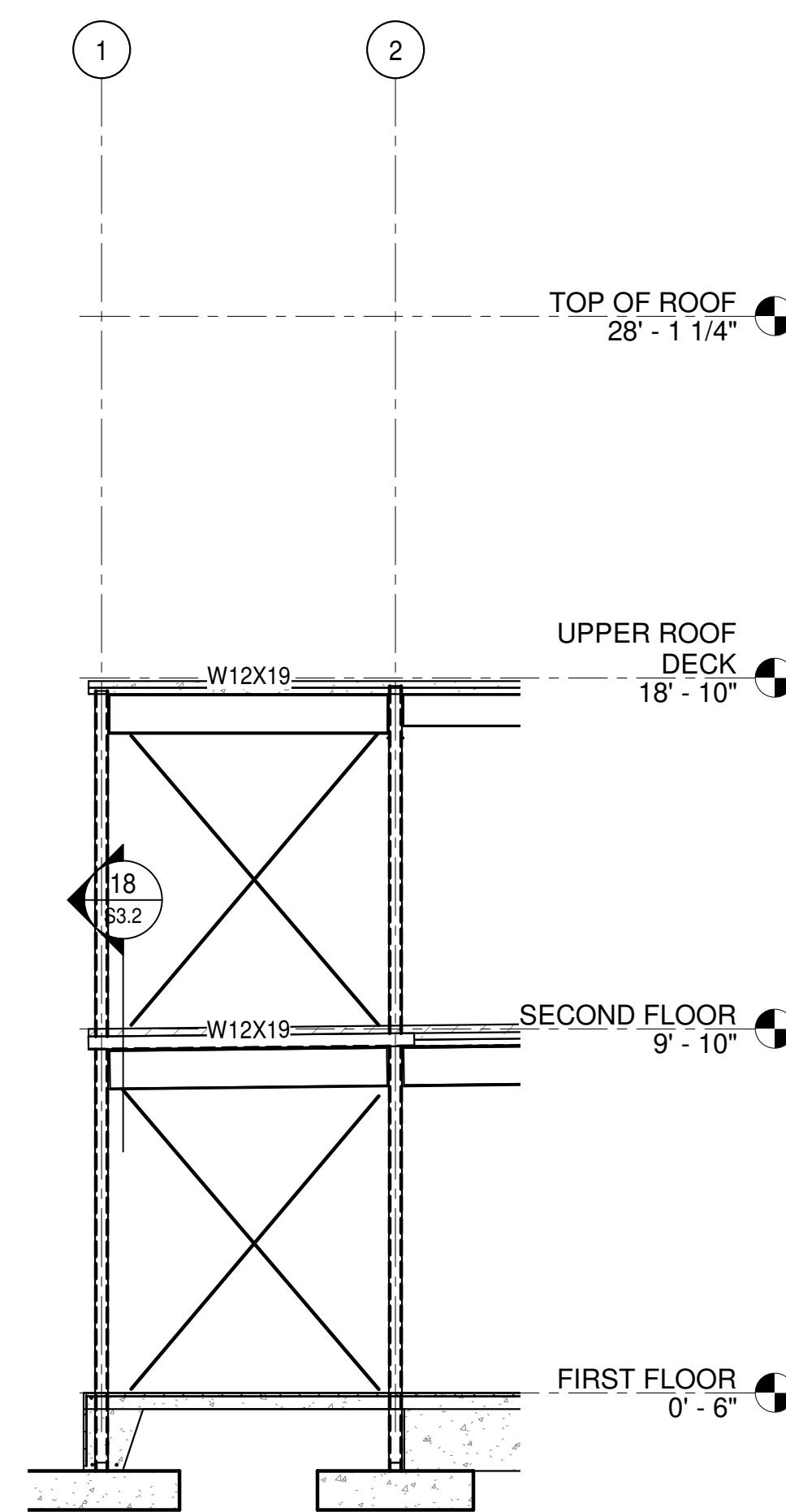
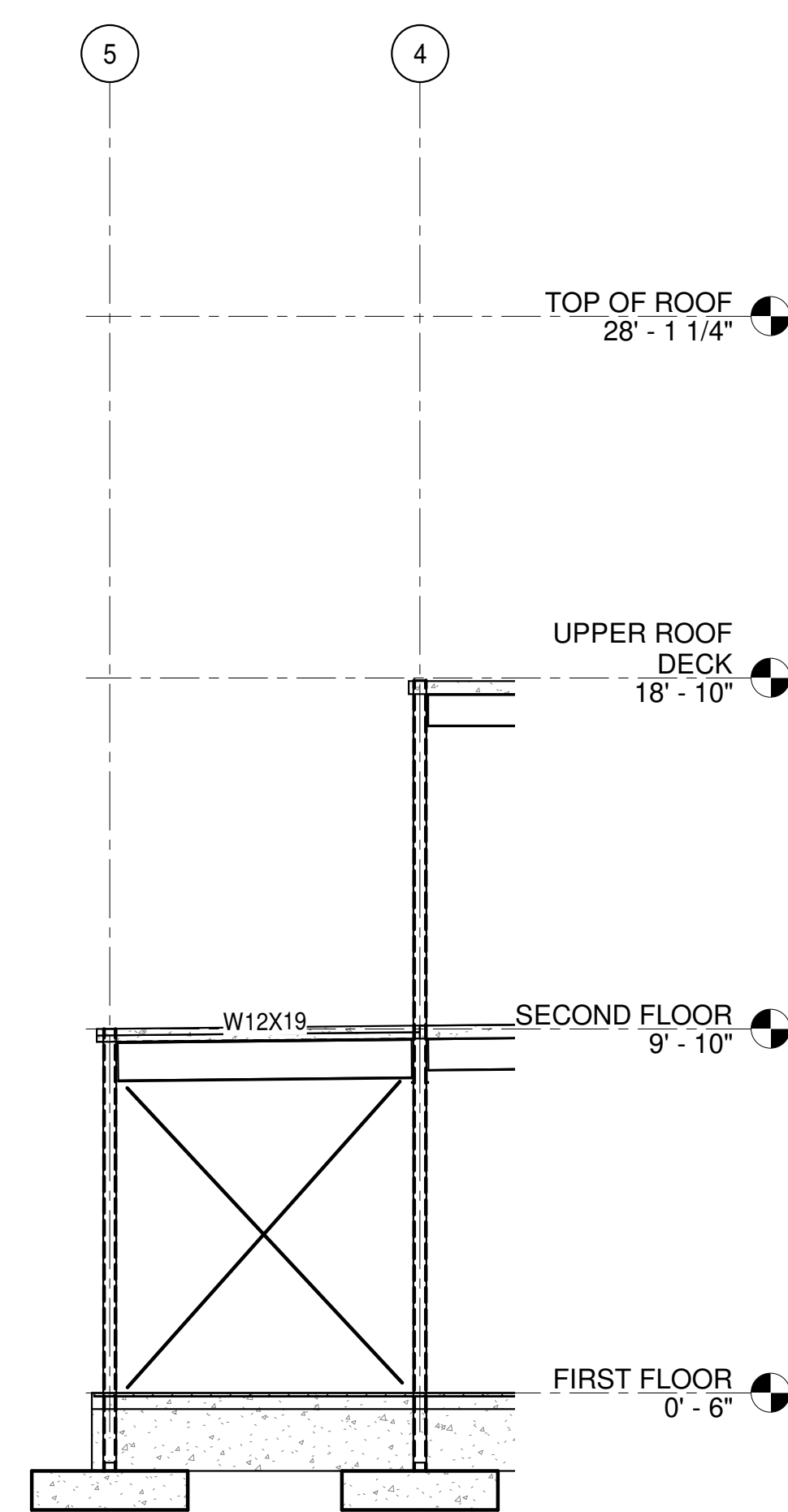
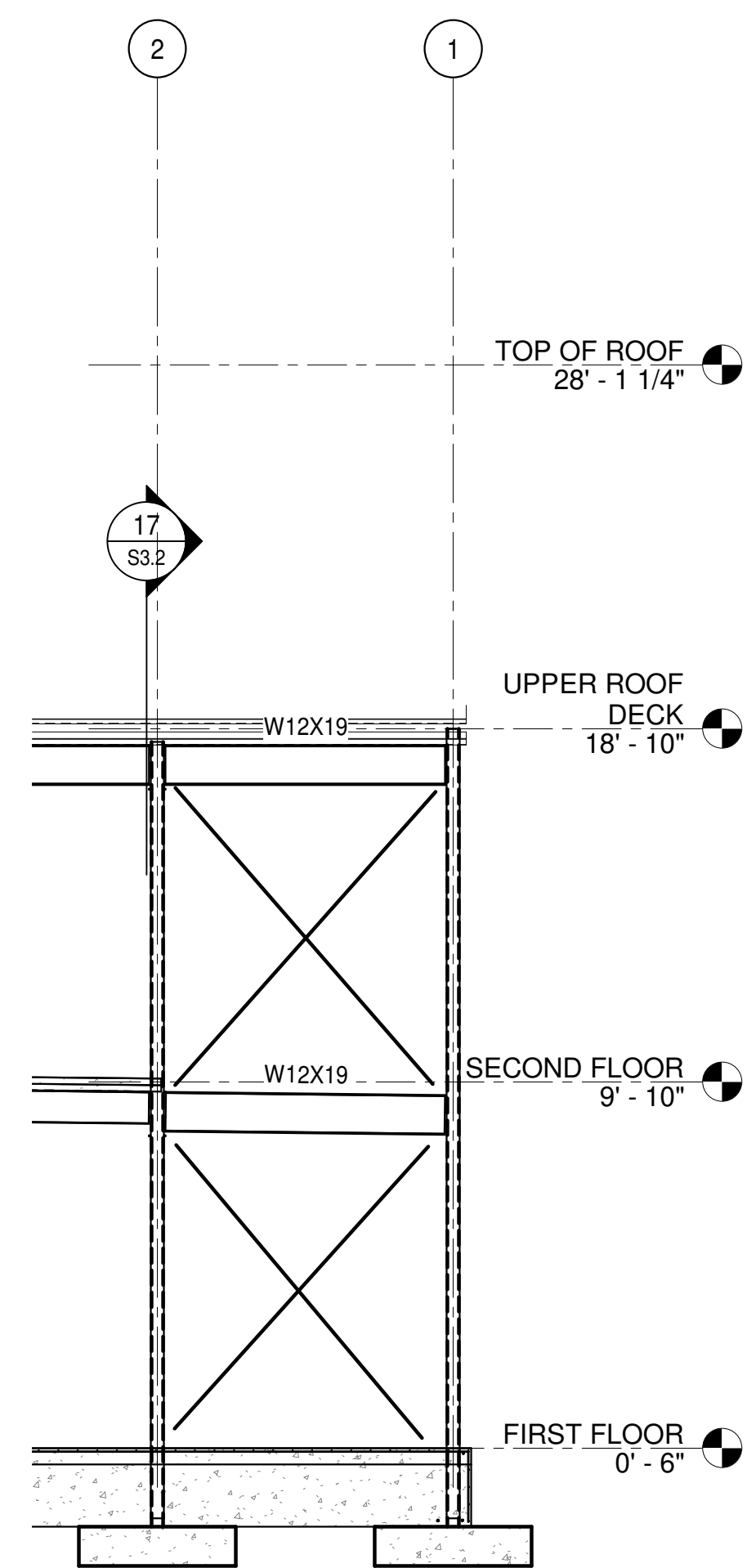
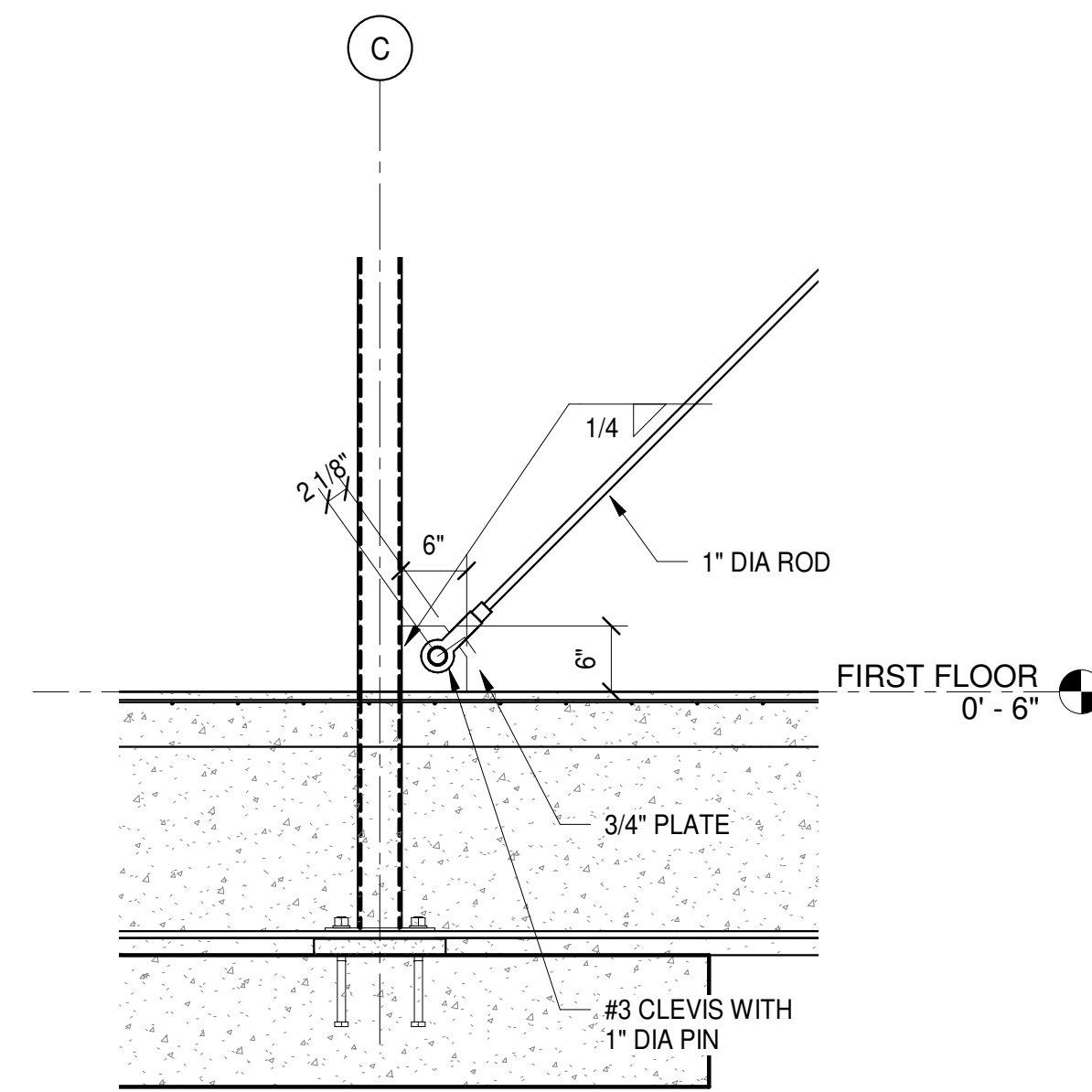
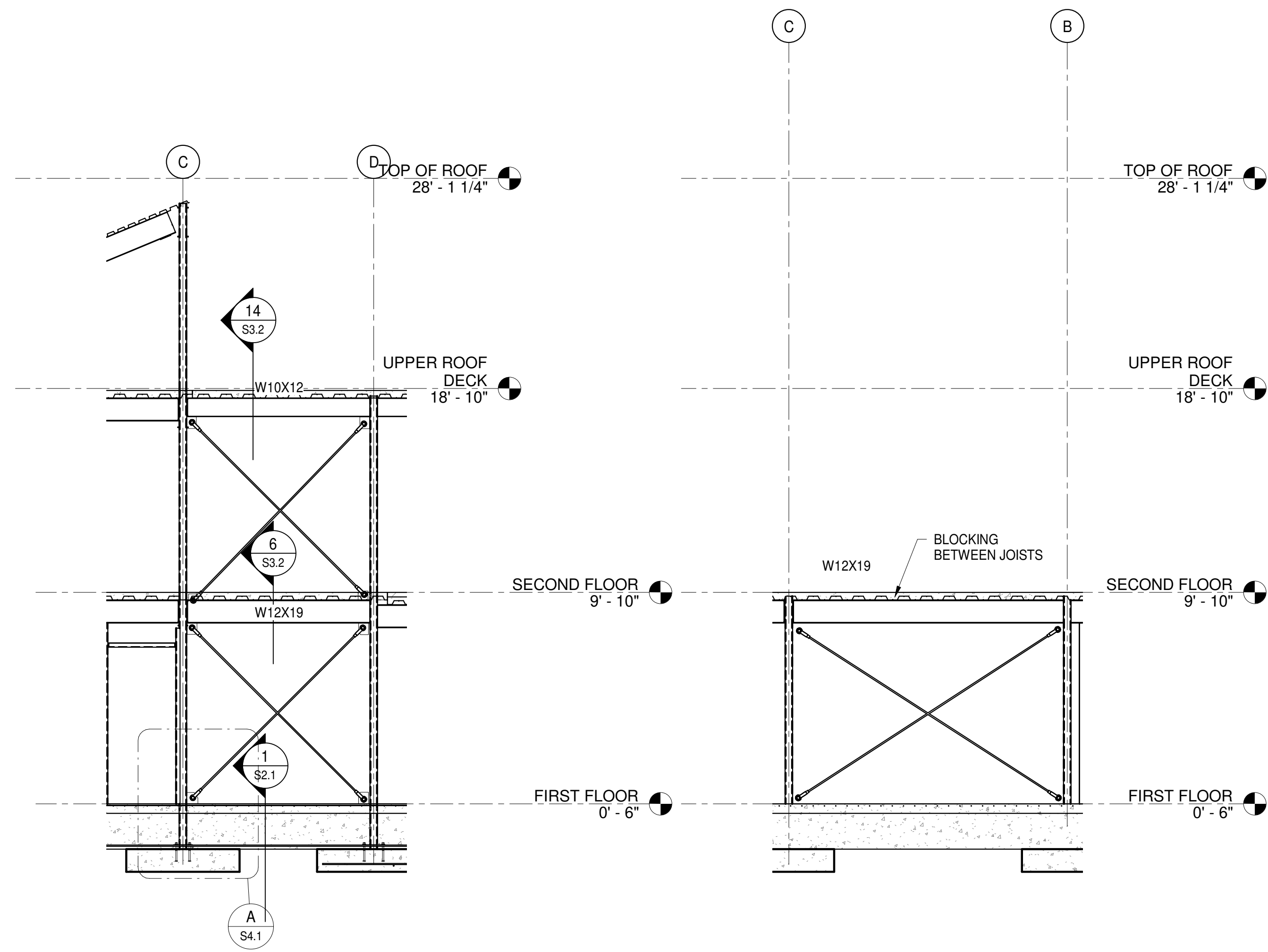
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 PROJECT SCALE: As indicated
 FILENAME:
 DATE: 05/13/2022

PROJECT 3461
S4.1

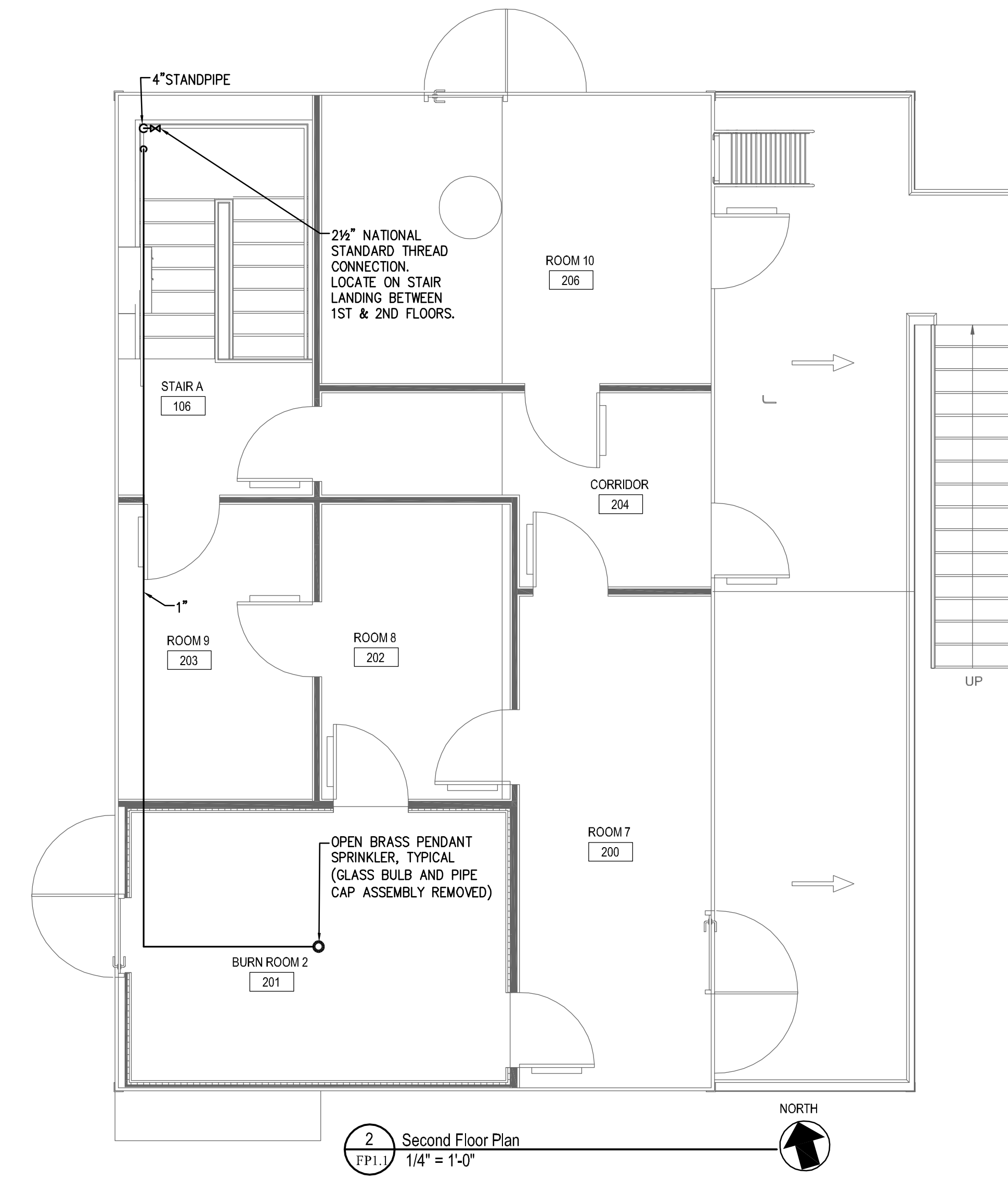
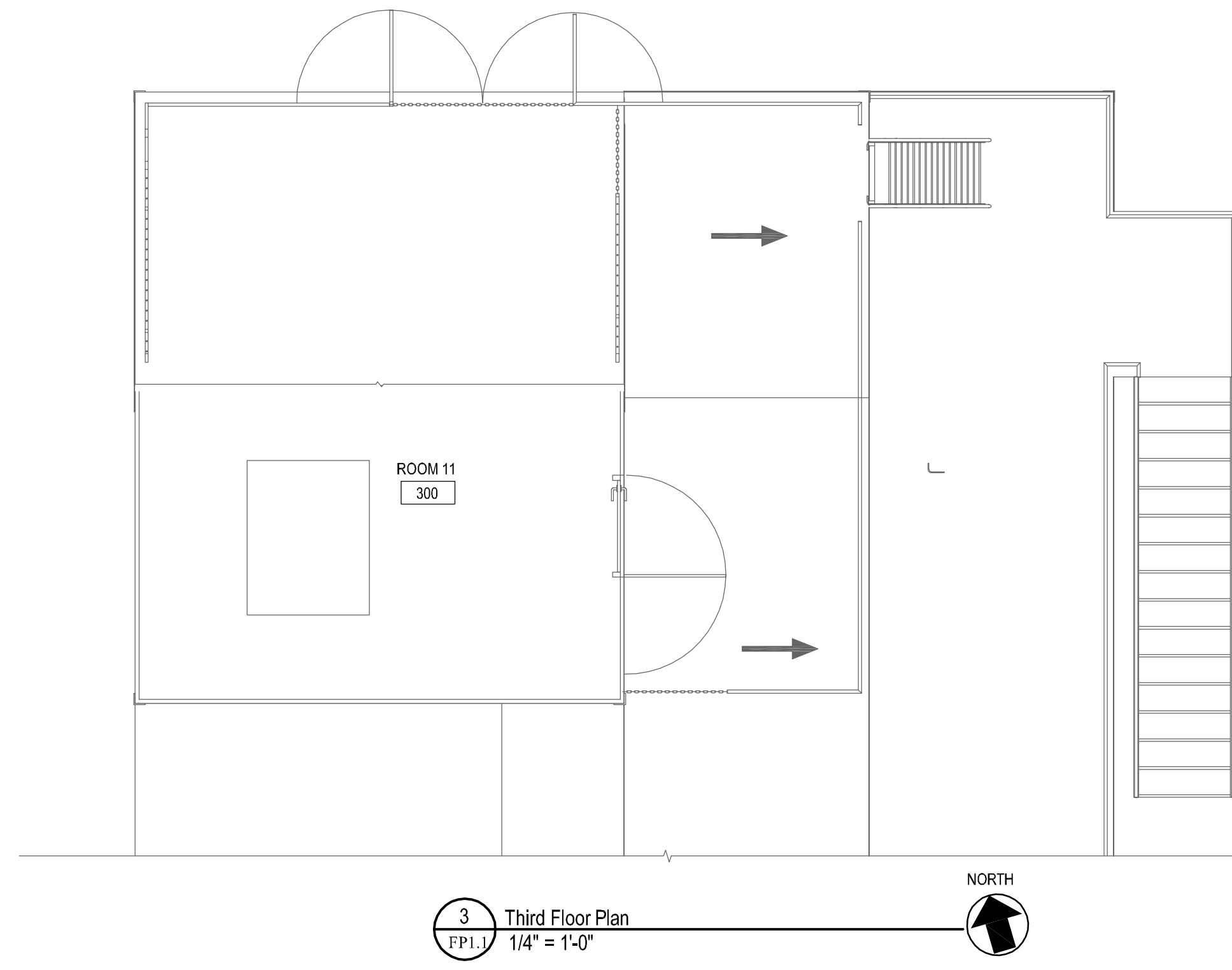


ELEVATION 3
 1/4" = 1'-0"
 S1.1 S4.1

ELEVATION 4
 1/4" = 1'-0"
 S1.1 S4.1

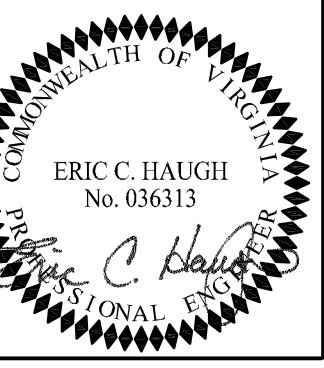
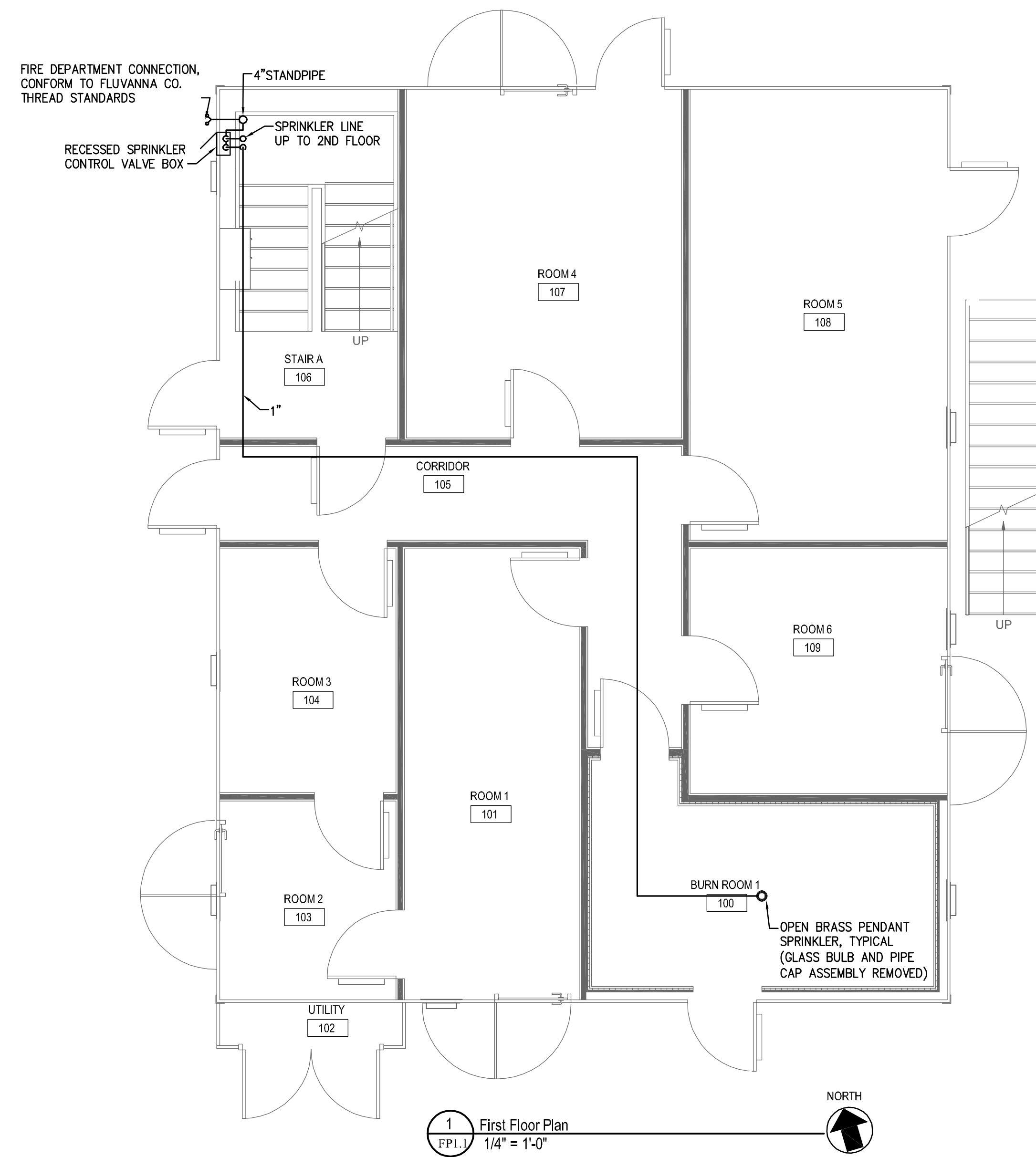
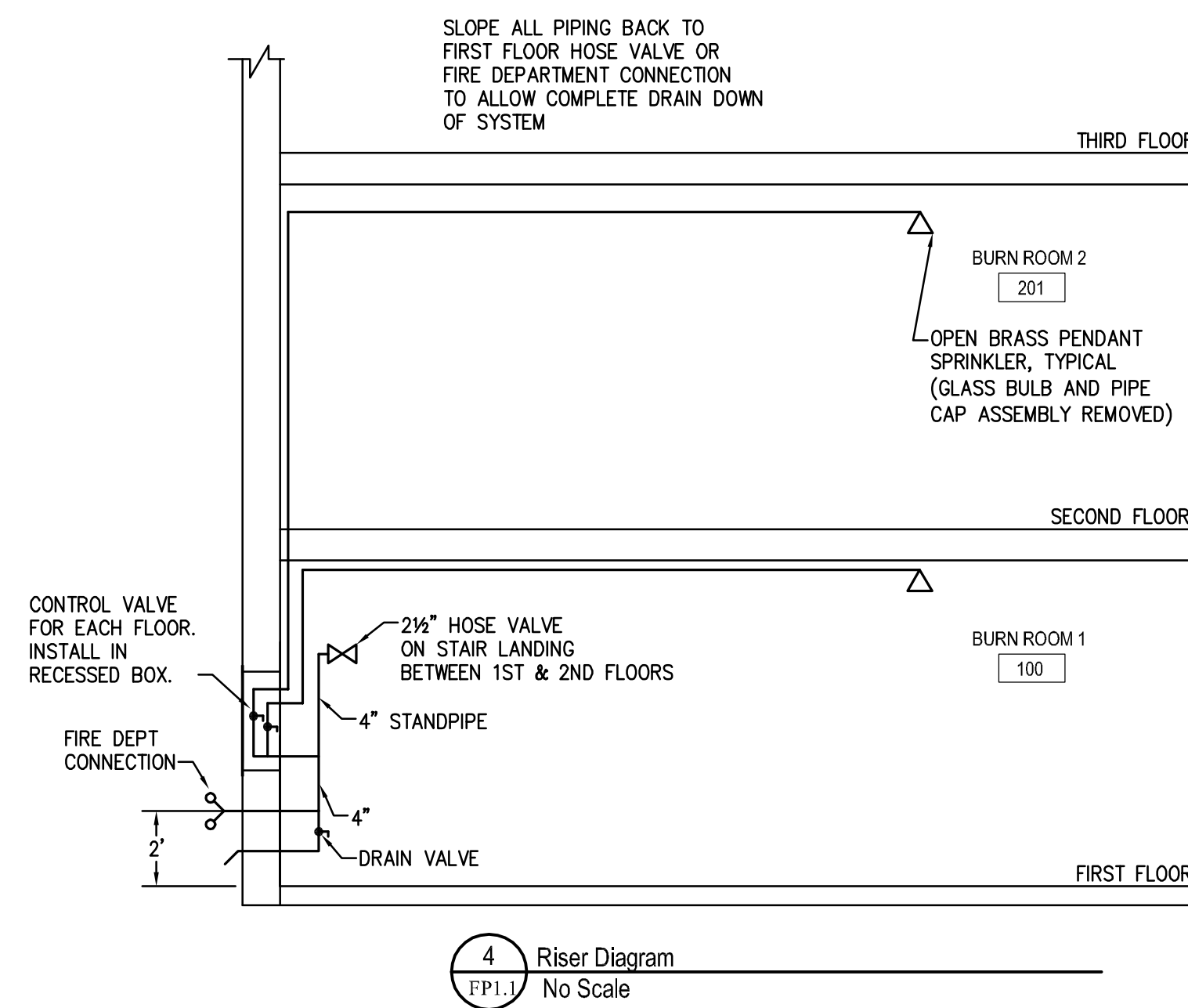
ELEVATION 5
 1/4" = 1'-0"
 S1.1 S4.1

ELEVATION 6
 1/4" = 1'-0"
 S1.1 S4.1



Specifications

- BASIC FIRE SUPPRESSION REQUIREMENTS**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODES, NFPA 13 AND THE AUTHORITY HAVING JURISDICTION.
 - SYSTEM IS USED FOR TRAINING PURPOSES. ALARM DEVICES ARE NOT REQUIRED.
 - ALL WORK SHALL BE COORDINATED BY INDIVIDUAL CONTRACTORS.
- HANGERS AND SUPPORTS**
- PROVIDE GALVANIZED CLEVIS OR RING HANGERS TO SUPPORT HORIZONTAL PIPING.
 - PROVIDE GALVANIZED RISER CLAMPS TO SUPPORT VERTICAL PIPING.
 - HANGERS SHALL BE UL LISTED AND FM APPROVED.
- FIRE SUPPRESSION SYSTEM**
- MATERIALS SHALL BE UL LISTED AND FM APPROVED.
 - PIPING - SCHEDULE 40 BLACK STEEL PIPE AND FITTINGS. THREADED OR GROOVED JOINTS.
 - FLOOR CONTROL VALVES - TWO-PIECE FULL PORT BALL VALVE.
 - SPRINKLERS - OPEN BRASS PENDANT SPRINKLER WITH GLASS BULB AND PIPE CAP ASSEMBLY REMOVED.
 - HOSE VALVE - 2 1/2" BRASS THREADED HOSE VALVE WITH WHEEL HANDLE OPERATOR.
 - FIRE DEPARTMENT CONNECTION - CONNECTION TYPE AS REQUIRED BY FLUVANNA COUNTY.



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CR

FIRST AND SECOND FLOOR PLANS

PROJECT 3461

FP1.1

DATE: 05/16/2022

SYMBOL & ABBREVIATION SCHEDULE

(NOTE: STANDARD SCHEDULE, NOT ALL SYMBOLS/ABBREVIATIONS MAY APPEAR ON THE DRAWINGS.)

LIGHTING/POWER

- LIGHT FIXTURE - SEE LIGHT FIXTURE SCHEDULE IN SPECIFICATIONS
- PANEL BOARD - SURFACE MOUNTED
- SWITCHED CIRCUIT - LIGHTING
- UNSWITCHED CIRCUIT - LIGHTING
- BRANCH CIRCUIT
- HOME RUN TO PANEL BOARD
- WIRE SIZE (IF OTHER THAN #12)
- BRANCH CIRCUIT NUMBER
- PANEL BOARD DESIGNATION
- EXIT SIGN - FACE(S) AND ARROWS AS INDICATED
- SINGLE POLE SWITCH
- THREE-WAY SWITCH
- FOUR-WAY SWITCH
- TIMER SWITCH THE WATTSTOPPER TS-400 SENSOR SWITCH TS-1
- OCCUPANCY SENSOR SWITCH THE WATTSTOPPER DW-100 SENSOR SWITCH WSD-PDT DUAL TECHNOLOGY
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE WITH SECURITY PLATE & SCREWS
- QUAD RECEPTACLE
- SAFETY TYPE DISCONNECT SWITCH
- COMBINATION MOTOR STARTER
- JUNCTION BOX WITH FINAL CONNECTION TO EQUIPMENT
- JUNCTION BOX WITH FINAL CONNECTION TO EQUIPMENT ABOVE CEILING
- JUNCTION BOX WITH FINAL CONNECTION TO EQUIPMENT CEILING MOUNTED
- JUNCTION BOX WITH FINAL CONNECTION TO PLUMBING CONTROLS
- COORDINATE LOCATION WITH OTHER TRADES
- TIMER
- CONTACTOR
- PHOTO CELL

TEMPERATURE MONITORING SYSTEM

- RECESSED CEILING MOUNT TYPE K DUPLEX THERMOCOUPLE
- RECESSED CEILING MOUNT TYPE K DUPLEX THERMOCOUPLE PLACED BEHIND INSULATION OF THERMAL LINING
- WALL MOUNT TYPE K DUPLEX THERMOCOUPLE 60 " AFF
- TEMPERATURE MONITORING SYSTEM
- CONDUIT HOME RUN TO TEMPERATURE MONITOR SYSTEM PANEL

ONE-LINE DIAGRAM

- FEEDER NUMBER
- TRANSIENT VOLTAGE SURGE SUPPRESSION

DRAWING SYMBOLS

- KEY NOTE

TITLE
SCALE: SCALE DRAWING TAG

ABBREVIATIONS

- A AMPERES
- AC ABOVE COUNTER
- AFF ABOVE FINISHED FLOOR
- AHU AIR HANDLING UNIT
- APMP AREA PROTECTION MONITORING PANEL
- ATC AUTOMATIC TEMPERATURE CONTROL
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CB CIRCUIT BREAKER
- CKT CIRCUIT
- CP CIRCULATING PUMP
- CU CONDENSING UNIT
- CUH CABINET UNIT HEATER
- DP DIMMING PANEL
- E EMERGENCY
- EC ELECTRICAL CONTRACTOR
- ECUH ELECTRIC CABINET UNIT HEATER
- EF EXHAUST FAN
- EHUH ELECTRIC HORIZONTAL UNIT HEATER
- ETR EXISTING TO REMAIN
- EWC ELECTRIC WATER COOLER
- EWL ELECTRIC WALL HEATER
- F OR FM FLOOR MOUNTED
- FCU FAN COIL UNIT
- FEC FIRE EXTINGUISHER CABINET
- FU FUSE(S)
- G OR GND GROUND
- GC GENERAL CONTRACTOR
- GFI GROUND FAULT CIRCUIT INTERRUPTER
- HC HEATING CONTRACTOR
- HP HORSEPOWER OR HEATING PANEL
- HUH HORIZONTAL UNIT HEATER
- IG ISOLATED GROUND
- KV KITCHEN VENTILATOR
- L LAMP
- LP LIGHTING PANEL
- LCP LIGHTING CONTROL PANEL
- MCB MAIN CIRCUIT BREAKER
- MDP MAIN DISTRIBUTION PANEL
- MF MODULAR FURNITURE
- MLO MAIN LUG ONLY
- NC NORMALLY CLOSED
- NEC NATIONAL ELECTRIC CODE
- NF NON FUSED
- NO NORMALLY OPEN
- P PUMP OR POLE
- PC PLUMBING CONTRACTOR
- PNL PANEL
- PP POWER PANEL
- RAF RETURN AIR FAN
- REL RELOCATE
- RP RELAY PANEL
- RTU ROOF TOP UNIT
- SEF SMOKE EXHAUST FAN
- SLP SITE LIGHTING PANEL
- SM SURFACE MOUNT
- ST SHUNT TRIP
- SW SWITCH
- TC TIME CLOCK
- TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- V VOLTS
- VFD VARIABLE FREQUENCY DRIVE
- VS VANDAL SHIELD
- W WATTS OR WIRE
- W/ WITH
- WAP WIRELESS ACCESS POINT
- WG WIRE GUARD
- WH WATER HEATER
- WP WEATHERPROOF

GENERAL NOTES

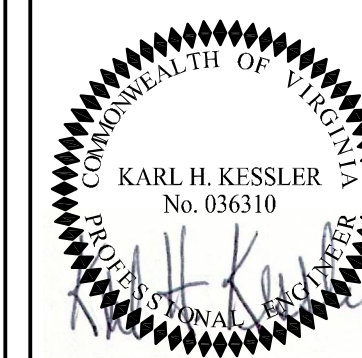
1. CONTRACTOR IS RESPONSIBLE FOR ENTIRE BID DOCUMENT SET, I.E. IF WORK IS SHOWN ON OTHER TRADE DRAWINGS AS BY ELECTRICAL CONTRACTOR, ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THAT WORK.
2. COORDINATE LOCATION OF LIGHTING FIXTURES, CONDUIT AND EQUIPMENT/DEVICES WITH OTHER TRADES INCLUDING ARCHITECTURAL DETAILS.
3. PROVIDE #12 AWG MINIMUM FOR POWER AND LIGHTING BRANCH CIRCUIT WIRING.
4. E.C. TO PROVIDE FIRE STOPPING, FOR ANY NEW ELECTRICAL WORK THAT PENETRATES A FIRE SEPARATION.
5. MOUNT ELECTRICAL OUTLETS AT 18" A.F.F. TO CENTERLINE AND 42" A.F.F. AT COUNTERS TO CENTERLINE UNLESS NOTED OTHERWISE.
6. MOUNT LIGHT SWITCHES AT 42" A.F.F. TO CENTERLINE UNLESS NOTED OTHERWISE.
7. MOUNT PANEL BOARDS AT 6' A.F.F. TO TOP OF PANEL. MOUNT PANEL BOARDS TALLER THAN 6' NO MORE THAN 4" A.F.F.
8. COORDINATE LIGHTING FIXTURES WITH ARCHITECTURAL CEILING PLANS AND DETAILS. POINT OUT ANY DISCREPANCIES BETWEEN CEILING TYPES AND SPECIFIC FIXTURE MOUNTING REQUIREMENTS TO ENGINEER PRIOR TO FIXTURE SUBMITTALS.
9. EACH SINGLE PHASE 120-VOLT CIRCUIT SHALL CONSIST OF 1-PHASE, 1-NEUTRAL, AND 1-GROUND, SHARED NEUTRALS ARE NOT ACCEPTABLE.
10. PROVIDE GFI PROTECTION ON ALL RECEPTACLES REQUIRED PER THE NEC AND AS NOTED IN THE SPECIFICATIONS.
11. MOUNT ALARM DEVICES SUCH THAT THEY ARE OUT OF RANGE OF ANY DOOR SWINGS AND CANNOT BE HIDDEN BY THE DOOR.
12. INCLUDE A LISTING AND LABELING STATEMENT FOR ALL SUBMITTALS. ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABELED AND LISTED BY A CERTIFIED LABORATORY OR AGENCY.
13. VERIFY ALL COLORS/FINISHES FOR LIGHTING AND WIRING DEVICES WITH THE ARCHITECT/OWNER.

WIRE SIZE FOR 20A CIRCUIT

CONDUCT SIZE	120V LENGTH OF RUN
AWG NO. 12	50 FEET OR LESS
AWG NO. 10	51 FEET TO 200 FEET
AWG NO. 8	201 TO 300 FEET

PANELBOARD SCHEDULE

MAINS:		200 A	MCB SERVICE ENTRANCE RATED		MOUNTING:		SURFACE			
VOLTAGE:		208/120V			AIC		65,000			
PHASE:		3	WIRES: 4		REMARKS		NEMA 4 OR 4X ENCLOSURE			
NO	PH	LOAD KW	DESCRIPTION	C/B	C/B	LOAD KW	DESCRIPTION	PH	NO	
1	A	0.50	TMS SYSTEM	20/1	20/1	0.36	RECEPTACLE	A	2	
3	B	0.20	LIGHTING	20/1	20/1	0.30	TMS CABINET HEATER	B	4	
5	C	0.50	SMOKE MACHINE SYSTEM	20/1	20/1	0.30	SITE LIGHTS	C	6	
7	A		SPARE	20/1	20/1		SPARE	A	8	
9	B		SPARE	20/1	20/1		SPARE	B	10	
11	C		SPARE	20/1	20/1		SPARE	C	12	
13	A		SPARE	20/1	20/1		SPARE	A	14	
15	B		SPARE	20/1	20/1		SPARE	B	16	
17	C		SPARE	20/1	20/1		SPARE	C	18	
19	A		SPARE	20/1	20/1		SPARE	A	20	
21	B		SPACE	20/1	20/1		SPACE	B	22	
23	C		SPACE	20/1	20/1		SPACE	C	24	
25	A		SPACE	20/1	20/1		SPACE	A	26	
27	B		SPACE	20/1	20/1		SPACE	B	28	
29	C		SPACE	20/1	20/1		SPACE	C	30	
		A	0.50	TOTALS		A	0.86	0.36 A		
		B	0.20			B	0.50	0.30 B		
		C	0.50			C	0.80	0.30 C		
LOCATION:		CONNECTED LOAD			2.16 KW		CONNECTED AMPS		6.00 A	



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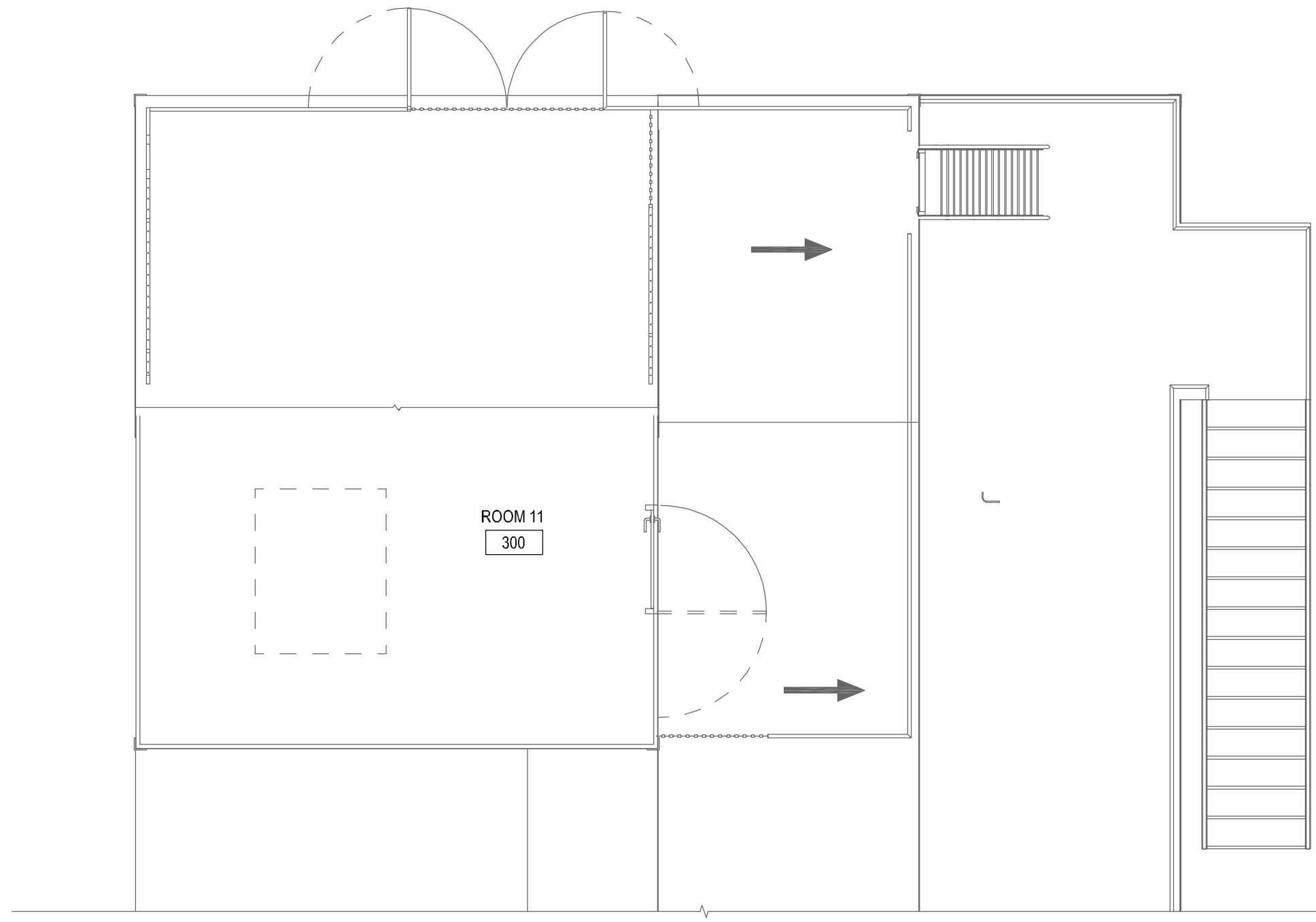
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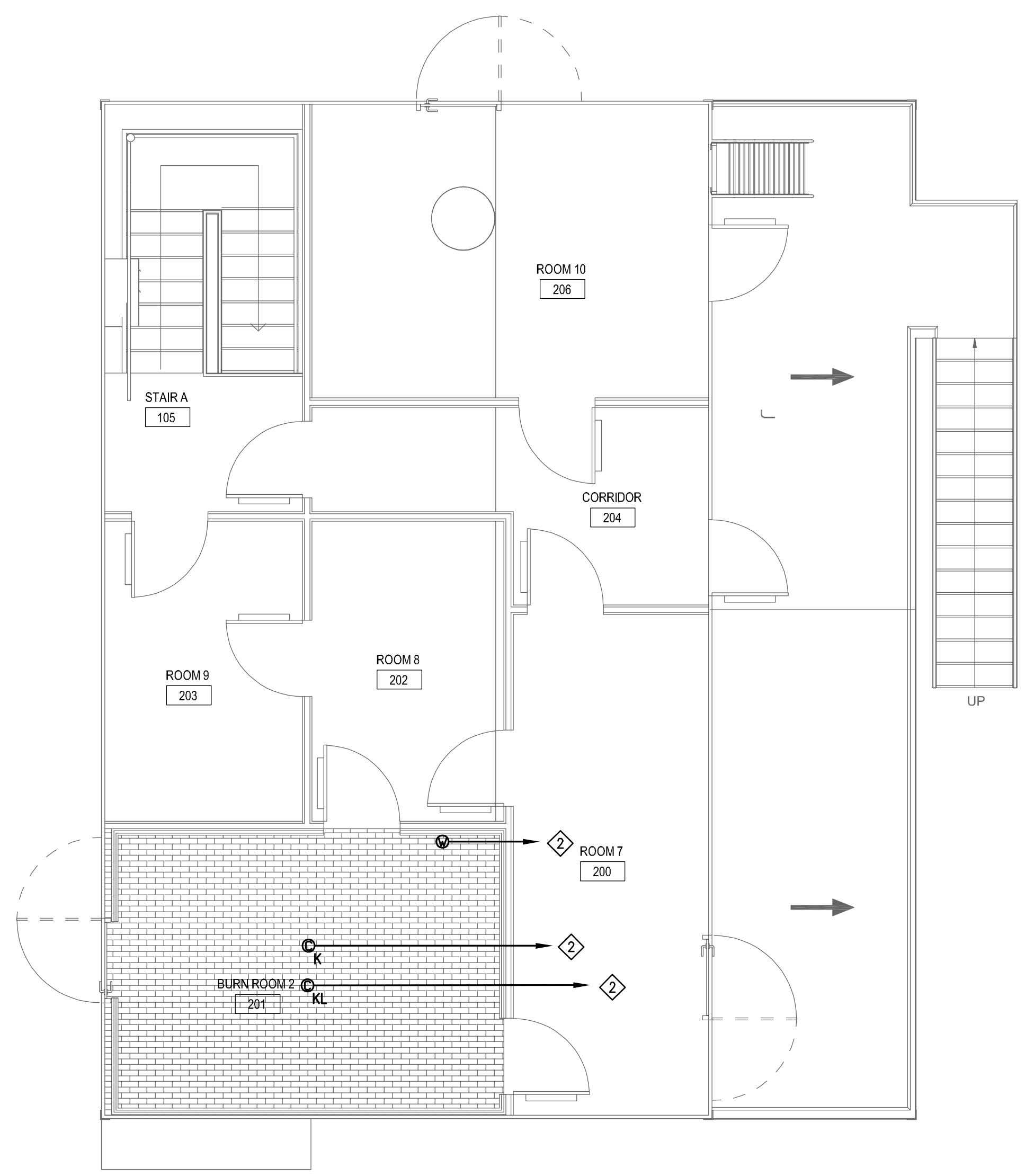


ELECTRICAL - LEGEND
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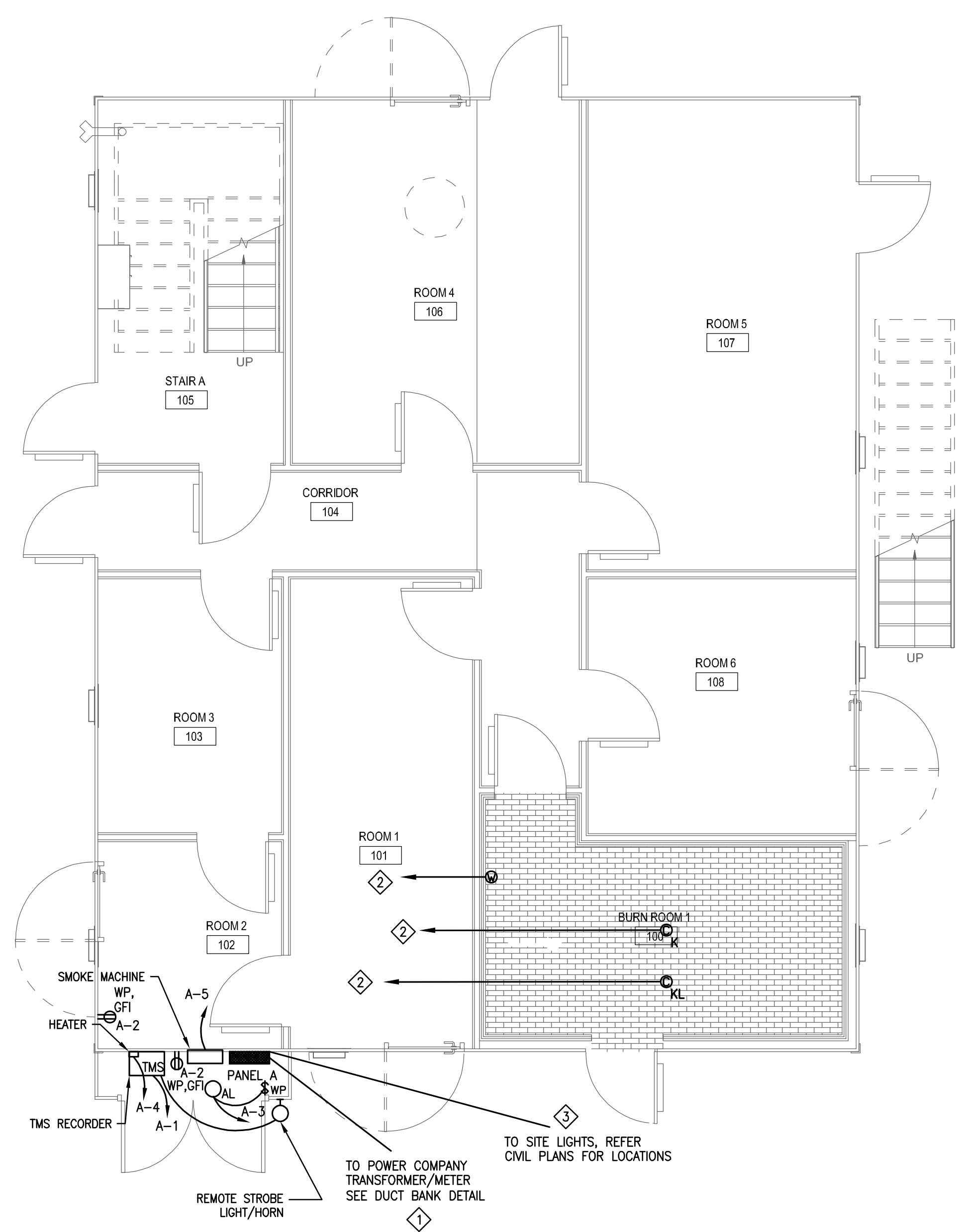
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E0.1



3 ELECTRICAL - THIRD FLOOR ELECTRICAL PLAN
E2.1
1/4" = 1'-0"

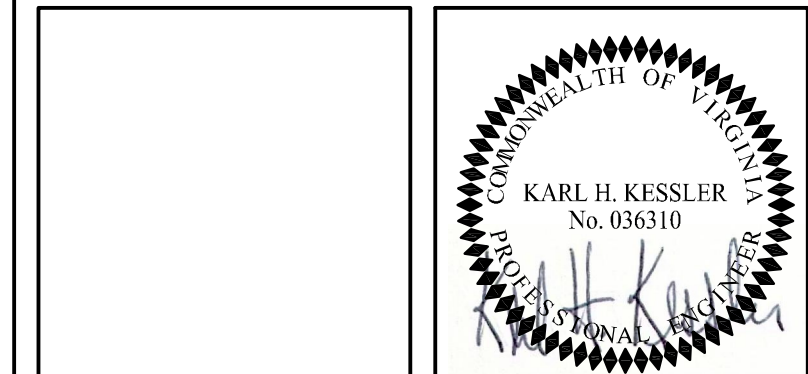


2 ELECTRICAL - SECOND FLOOR ELECTRICAL PLAN
E2.2
1/4" = 1'-0"



1 ELECTRICAL - FIRST FLOOR ELECTRICAL PLAN
E2.1
1/4" = 1'-0"

- KEY NOTES**
- 1 INCREASE SIZE OF SECONDARY SERVICE CONDUCTORS FOR VOLTAGE DROP AS REQUIRED FOR LOCATION OF POWER COMPANY'S TRANSFORMER LOCATION. COORDINATE WITH POWER COMPANY.
 - 2 THERMOCOUPLE WIRE IN 0.5" CONDUIT TO TMS. PROVIDE PROTECTIVE COVERS OVER THERMOCOUPLES.
 - 3 PROVIDE LIGHTING CIRCUITS (A-6) TO SITE LIGHTING. REFER TO CIVIL PLANS AND COORDINATE WITH DETAILS IN FIELD OWNER.



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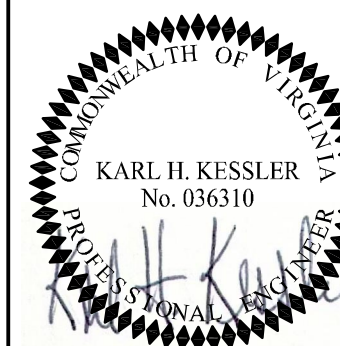
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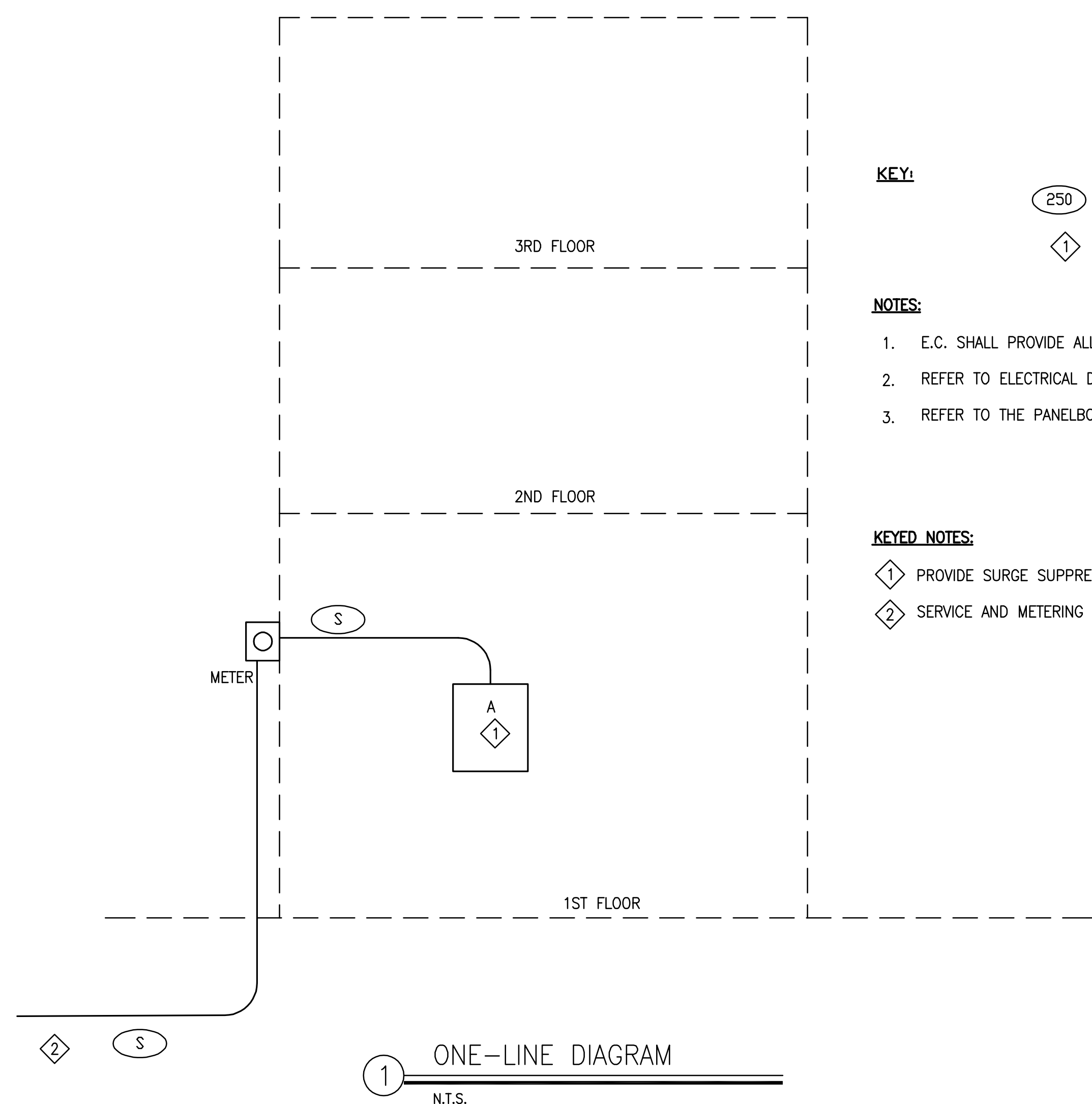
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FEEDER SCHEDULE				COPPER		STABILOY ALUMINUM		STABILOY ALUMINUM		NOTES
FEEDER NO.	# SETS	# CONDUCTORS	CONDUCTOR SIZE	COPPER GROUND SIZE	CONDUIT SIZE	CONDUCTOR SIZE	CONDUCTOR SIZE	CONDUIT SIZE		
S	1	4	#3/0	N/A	2.5"	250 KCMIL	N/A	2.5"	NOTE 1, 2	

NOTES:
 1. COORDINATE DETAILS AND REQUIREMENTS WITH POWER COMPANY.
 2. SERVICE CONDUCTORS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH POWER COMPANY'S REQUIREMENTS.
 3. PROVIDE ALUMINUM CONDUCTOR PRICE AS AN ALTERNATE.



KEY:

- Ⓢ FEEDER
- ◇ NOTE #1

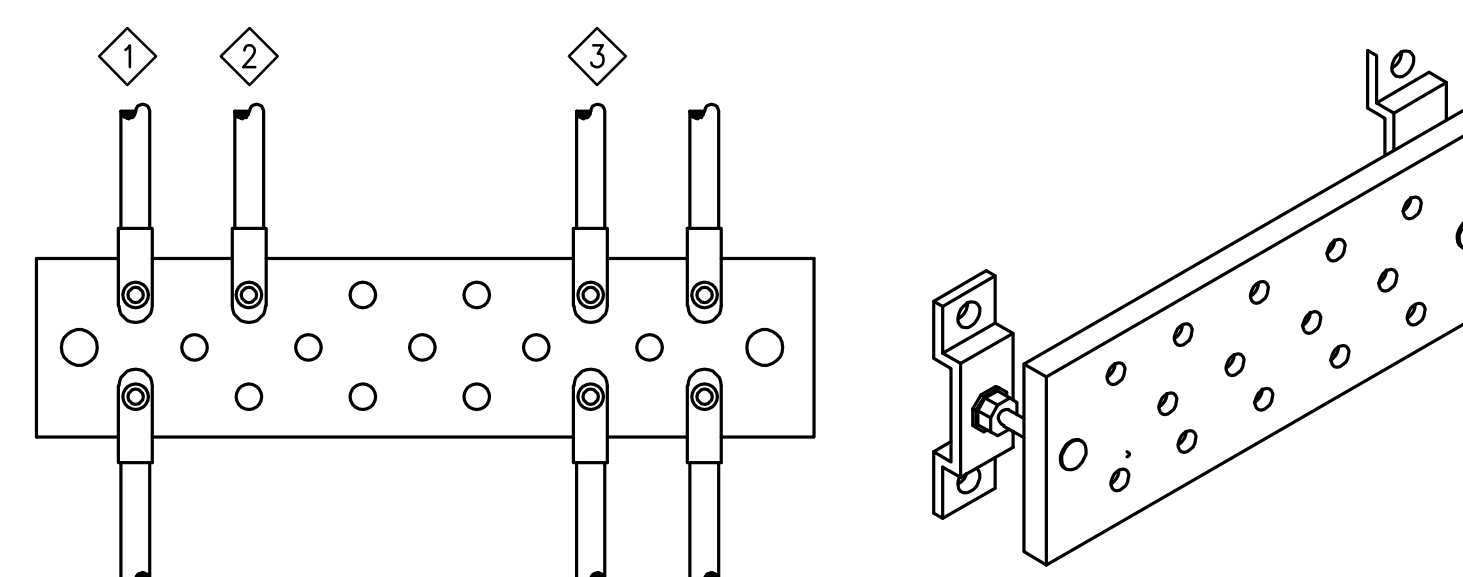
NOTES:

1. E.C. SHALL PROVIDE ALL TEMPORARY POWER.
2. REFER TO ELECTRICAL DETAIL DRAWINGS FOR GROUNDING AND BONDING DETAILS.
3. REFER TO THE PANELBOARD SCHEDULES FOR SPARE BREAKER REQUIREMENTS.

KEYED NOTES:

- ◇ PROVIDE SURGE SUPPRESSION PER SPECIFICATIONS FOR NOTED PANEL
- ◇ SERVICE AND METERING SHALL BE IN STRICT ACCORDANCE WITH POWER COMPANY REQUIREMENTS.

GROUND BUS, HARGER LIGHTNING PROTECTION CATALOG NUMBER GBI14420 OR APPROVED EQUAL.



- ◇ NO. 3/0 STRANDED TO SERVICE PANEL A
- ◇ NO. 6 STRANDED TO WATER PIPE.
- ◇ NO. 6 STRANDED TO GAS PIPE.

2 DETAIL - MAIN GROUND BUS - AT SERVICE ENTRANCE PANEL
N.T.S.

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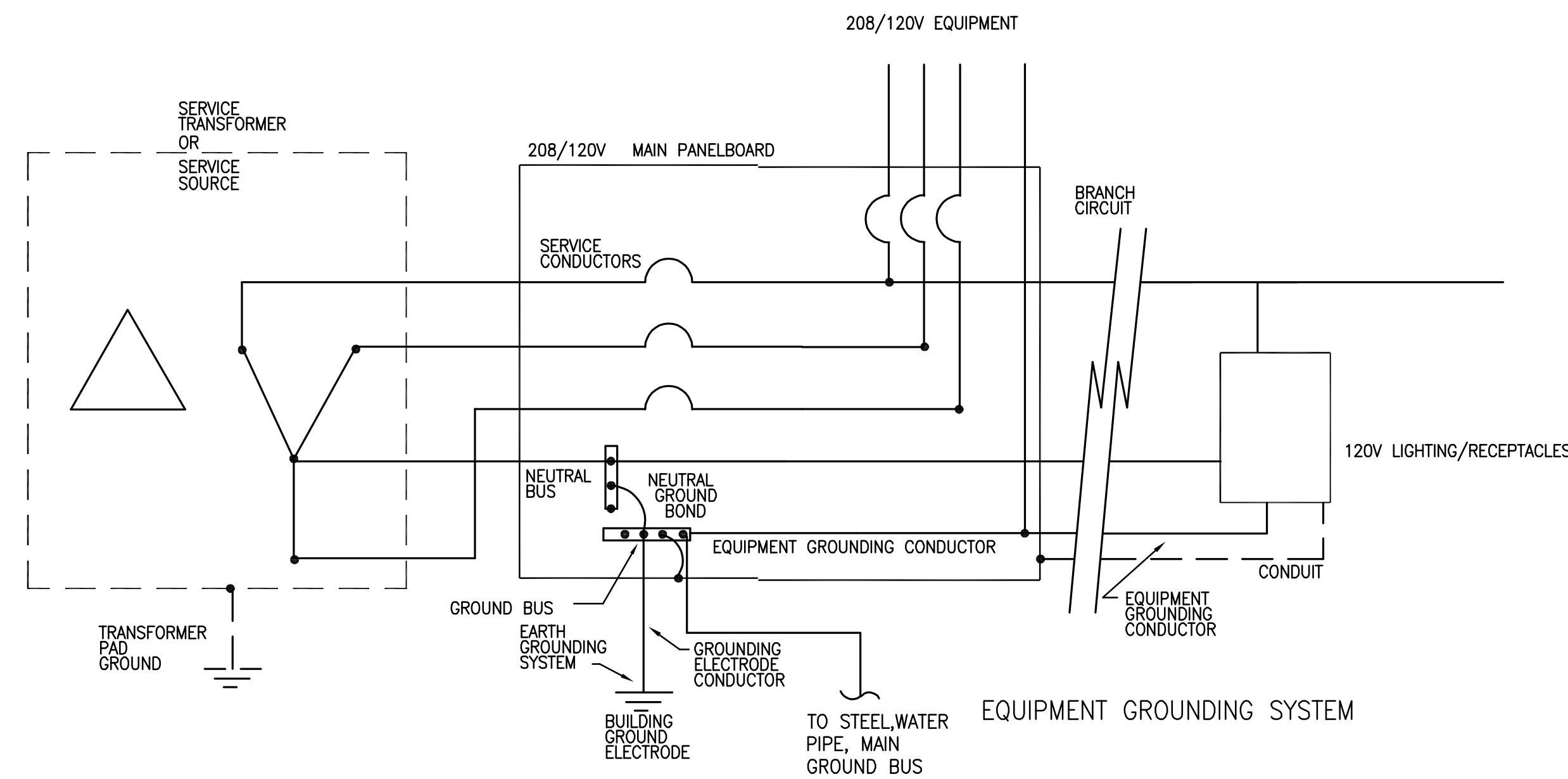
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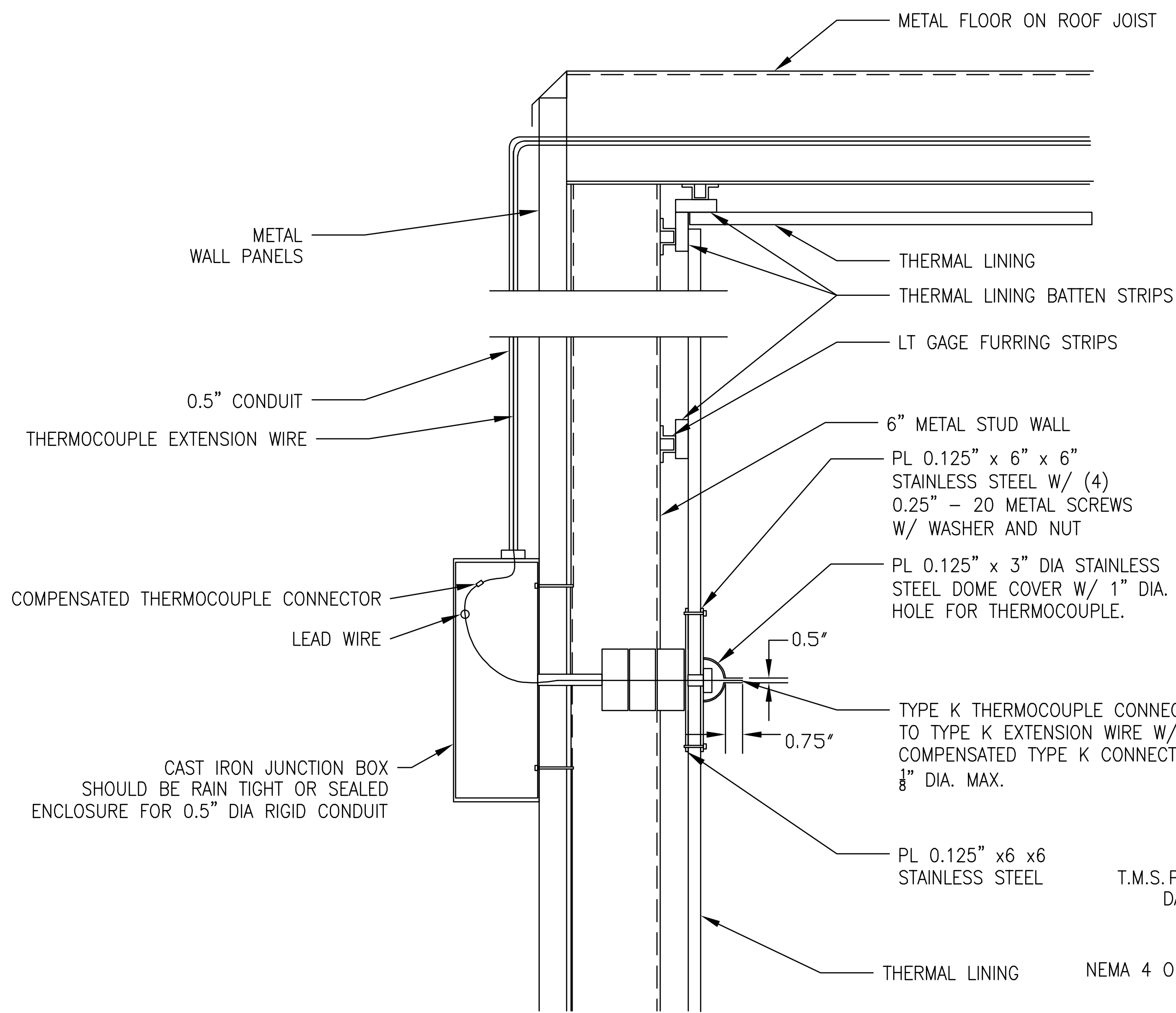
PROJECT
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E3.1



NEC 250-50
SERVICE ENTRANCE
BUILDING GROUNDING
ELECTRODE

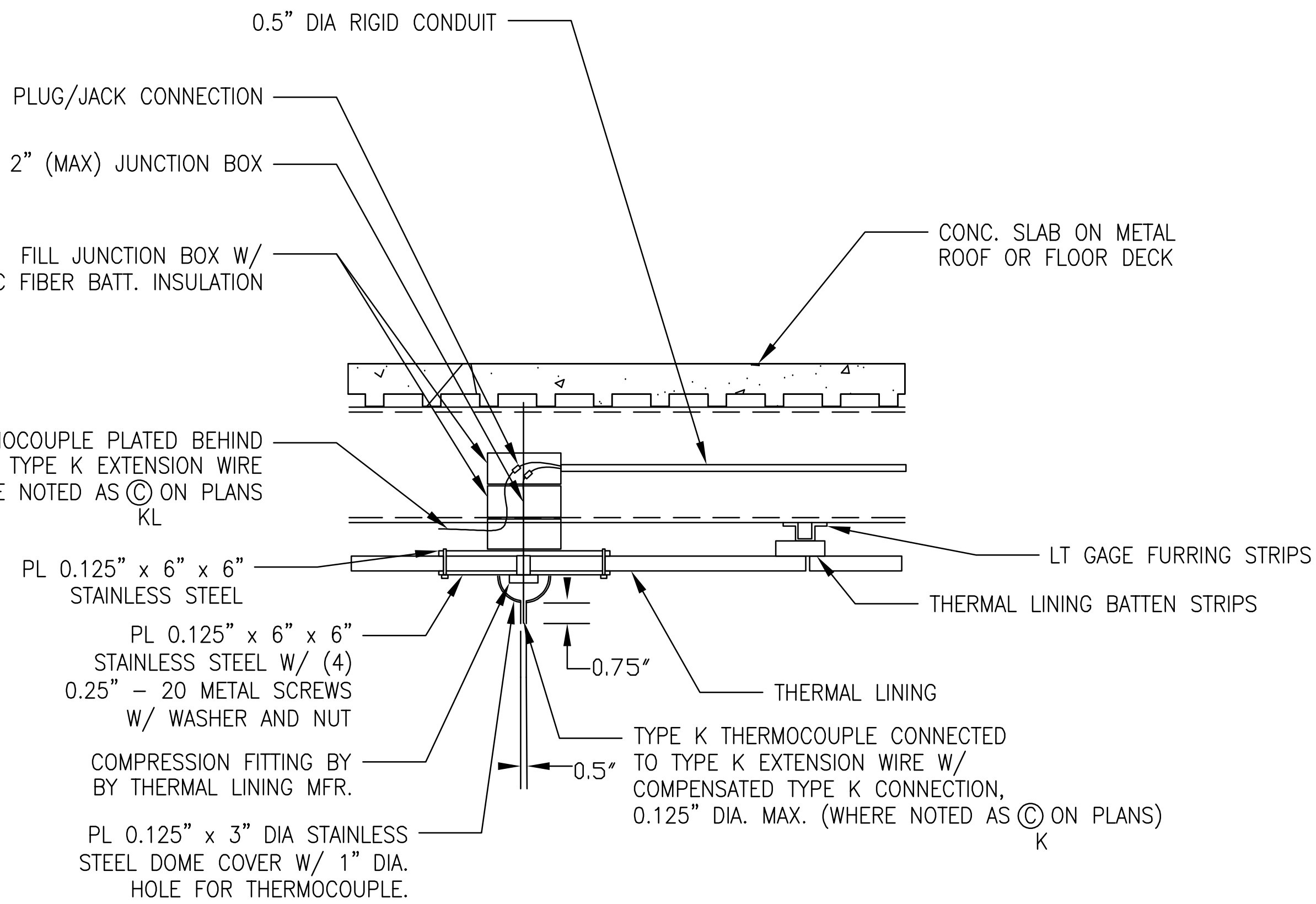
- GROUND LOOP 4/0 BARE COPPER
2-1/2" DEEP AROUND
BUILDING WITH 3/4" GROUND RODS
ON CORNERS
AND
- UFER GROUND SYSTEM

① BUILDING GROUNDING SYSTEM
N.T.S.

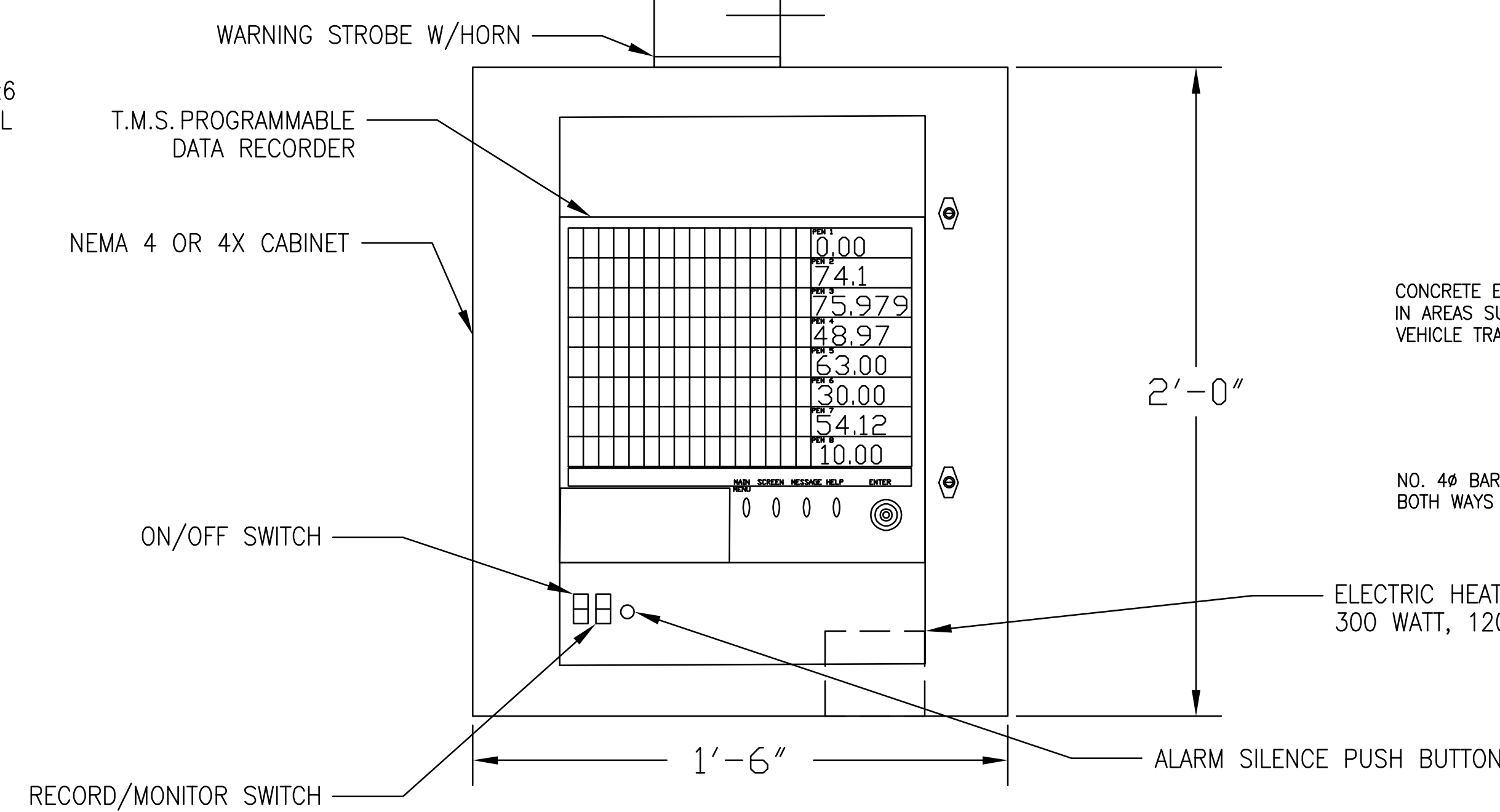


⑤ THERMOCOUPLE SYSTEM DETAIL
N.T.S.

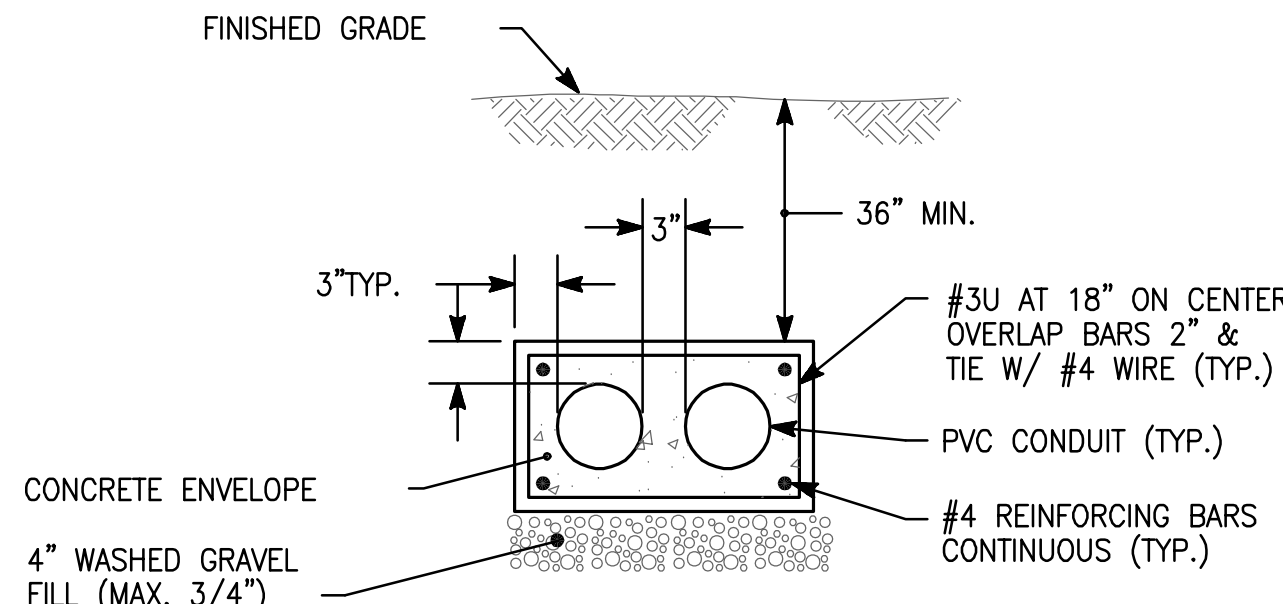
TYPE K THERMOCOUPLE PLATED BEHIND
THERMAL LINING INSULATION AND CONNECTED TO TYPE K EXTENSION WIRE
W/ COMPENSATED CONNECTION IN WHERE NOTED AS ⓐ ON PLANS
KL



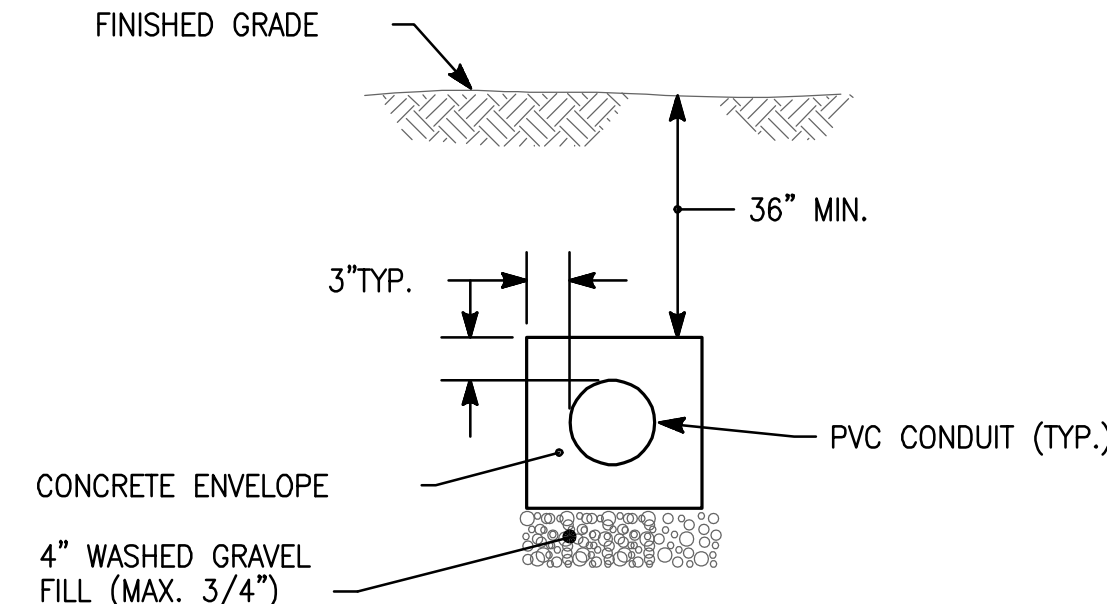
⑥ THERMOCOUPLE SYSTEM DETAIL
N.T.S.



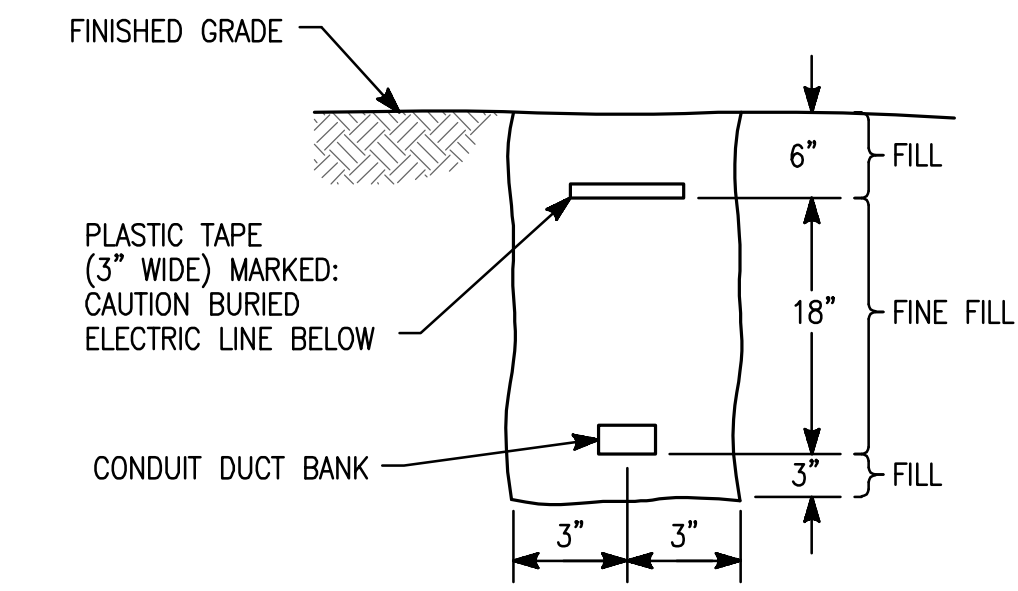
⑦ TEMPERATURE MONITORING SYSTEM
N.T.S.



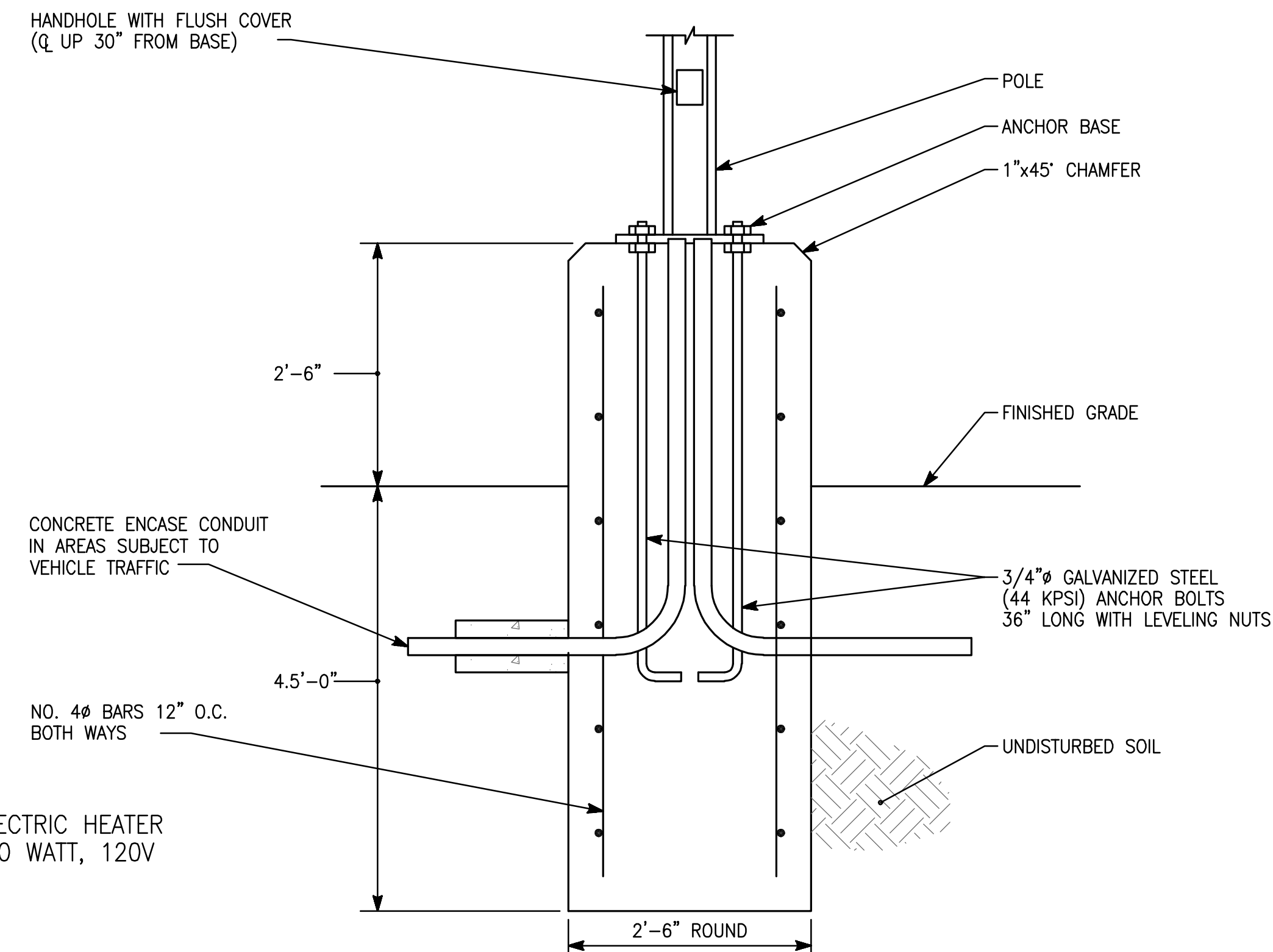
② DETAIL - 1 X 2
ELECTRICAL DUCTBANK
N.T.S.



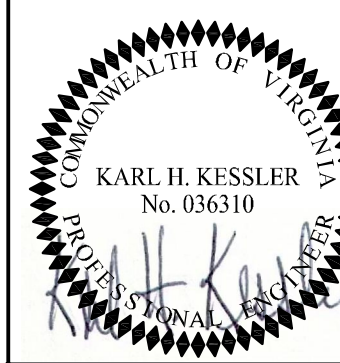
③ SITE LIGHTING DUCTBANK
N.T.S. PROVIDE CONCRETE ENVELOPE UNDER PAVEMENT
AREAS AND PEA GRAVEL FOR OTHER AREAS



④ DETAIL - UNDERGROUND
CONDUIT/CABLE INSTALLATION
N.T.S.



⑧ DETAIL - SITE LIGHTING POLE BASE
N.T.S.



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REVISIONS

NO.	DATE	BY	DESCRIPTION OF CHANGES

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 FLUVANNA COUNTY
 5725 JAMES MADISON HIGHWAY, PALMYRA, VIRGINIA



ELECTRICAL - DETAILS
PLOT SCALE
NTS
FILENAME
DATE
05/16/2022

PROJECT
3461
E4.1