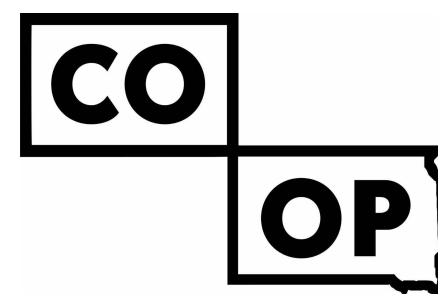




Northern State University

# Lincoln Hall



**AndersonMasonDale  
Architects**

The NSU Lincoln Hall Business & Nursing project may be partially funded using ARPA Capital Projects Fund. As a condition of the ARPA funding guidelines, the Contractor shall meet the following minimum requirements:  
• Contractors must comply with 2 CFR 200.322 Domestic preferences for procurement <https://www.ecfr.gov/current/title-2/subtitle-A/chapter-II/part-200/subpart-D/subject-group-ECFR45644419ad438d/section-200.322>  
• A copy of the ARPA funding guidance that outlines the requirements associated with projects that utilize this funding can be found at the following link: <https://home.treasury.gov/policy-issues/coronavirus/assistance-for-state-local-and-tribal-governments/capital-projects-fund>



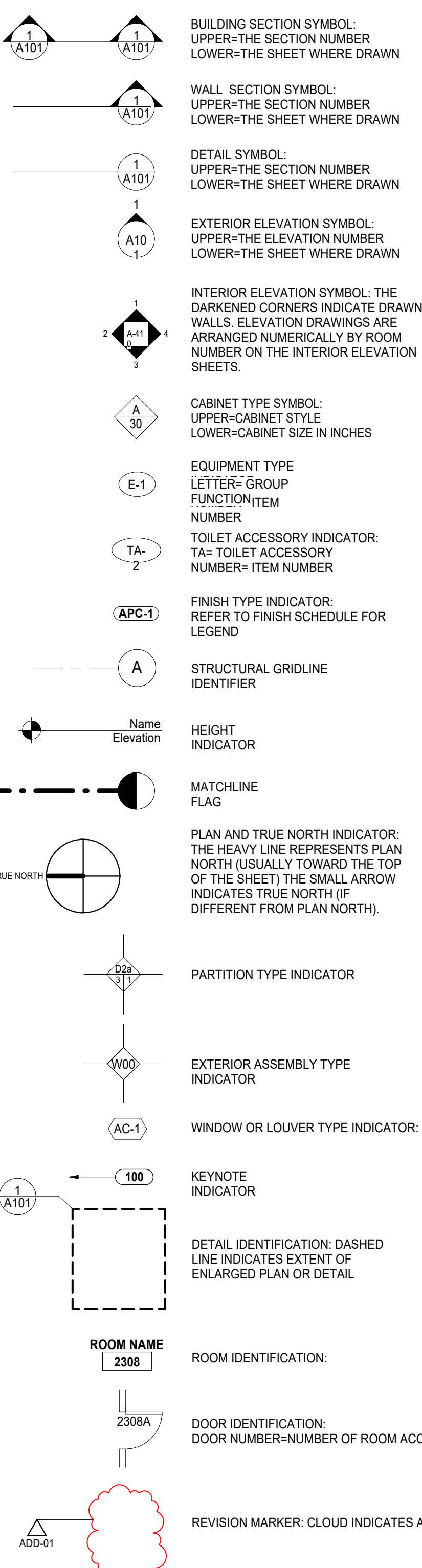
# ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS AND SYMBOLS ARE USED ON DRAWINGS CONTAINED IN THE SET. SYMBOLS AND ABBREVIATIONS ON THIS SHEET APPLY ONLY TO ARCHITECTURAL DRAWINGS

AC	AIR CONDITIONING	FBO	FURNISHED BY OWNER	PWD	PLYWOOD
ACF	ACCESS FLOORING	FD	FLOOR DRAIN	QTY	QUANTITY
ACR	AIR CURTAIN	FEC	FIRE EXTINGUISHER CABINET	R	RESISTANCE, THERMAL RISER
ACST	ACUSTIC	FEX	FIRE EXTINGUISHER	RAD	RADIUS
AD	AREA DRAIN	FIN	FINISH (ING)	RB	RESILIENT BASE
ADD	ADDENDUM	FLR(G)	FLOOR (ING)	RCF	REFLECTED CEILING PLAN
ADH	ADHESIVE	FND	FOUNDATION	RD	ROOF DRAIN
ADJ	ADJACENT	FOS	FACE OF STUD	RE	REFERENCE, REFER TO
ADJUST	ADJUSTABLE	FR	FIRE RESISTIVE	REIN	REINFORCING
AFF	ABOVE FINISHED FLOOR	FT	FOOT, FEET	REM	REMOVE
AHU	AIR HANDLING UNIT	FTG	FOOTING	REQ	REQUIRED (D)
AL	ALUMINUM	FUT	FUTURE	RM	ROOM
ALUM	ALUMINUM	GA	GAUGE, GAGE	RO	ROUGH OPENING
ALT	ALTERNATE	GALV	GALVANIZED	ROW	RIGHT OF WAY
ANOD	ANODIZED	GB	GYPNUM BOARD	RR	RESTROOM
APC	ACOUSTICAL PANEL CEILING	GBAR	GRAB BAR	RSBK	SPLASH BLOCK
APPROX	APPROXIMATE (LY)	GC	GENERAL CONTRACT (OR)	SC	SOLID CORE
ARCB	ARISE RESISTANT GYPSUM BOARD	GL	GLASS GLAZING	SCH	SCHEDULE
ASPH	ASPHALT	GR	GRILLE	SD	STORM DRAIN
AUTO	AUTOMATIC	HB	HOSE BIB	SEC	SECTION
AW	ALUMINUM WINDOW	HC	HOLLOW CORE	SF	STOREFRONT
		HDW	HARDWARE	SHT	SHEET
BD	BOARD	HM	HOLLOW METAL	SHTH	SHEATHING
BLDG	BUILDING	HOR	HORIZONTAL	SH	SIMILAR
BLK(G)	BLOCK (ING)	HPT	HIGH POINT	SOG	SLAB ON GRADE
BM	BEAM	HR	HOUR	SPEC	SPECIFICATION (S)
BO	BY OTHERS	HT	HEIGHT	SPL	SPLASH
BOT	BOTTOM	HTR	HEATER	SO	SQUARE
BR	BRAKER ROD	HVAC	HEATING/VENTILATION/AC	SST	STAINLESS STEEL
BRG	BEARING	HW	HOT WATER	STC	SOUND TRANSMISSION CLASS
BRK	BRICK	HWH	HOT WATER HEATER	STD	STANDARD
BS	BOTH SIDES	ID	INSIDE DIAMETER	STL	STEEL
BSMT	BASEMENT	IN	INCH (ES)	STO	STORAGE
BTWN	BETWEEN	INCL	INCANDESCENT	STRUC	STRUCTURAL
BZD	BRONZE DOOR	INFO	INFORMATION	SUS	SUSPENDED
BZF	BRONZE FRAME	INT	INTERIOR	SYM	SYMMETRICAL
		INCAN	INCANDESCENT	T	TREAD
		INS	INSULATION (D, ION)	TAB	TOP AND BOTTOM
		INT	INTERIOR	T&G	TONGUE AND GROOVE
		INV	INVERT	TEL	TELEPHONE
		IT	JOINT	TEMP	TEMPERATURE
		LAB	LABORATORY	THK	THICK (NESS)
		LAM	LAMINATE (D)	THR	THRESHOLD
		LAV	LAVATORY	THRU	THROUGH
		LBN	POUND (S)	TO	TOP OF
		LIB	LIBRARY	TOB	TOP OF BEAM
		LIN	LINEAL	TOC	TOP OF CURB
		LKR	LOCKER	TOI	TOP OF INSULATION
		LT	LIGHT	TOM	TOP OF MASONRY
		MAINT	MAINTAIN (ENANCE)	TOP	TOP OF PARAPET
		MAS	MASONRY	TOB	TOP OF SLAB
		MAX	MAXIMUM	TOSTL	TOP OF STEEL
		MC	MECHANICAL CONTRACTOR	TOW	TOP OF WALL
		MECH	MECHANICAL (AL)	TPART	TOILET PARTITION
		MET	METAL	TR	TRANSOM
		MFR	MANUFACTURE (ER)	TR	TOILET PAPER DISPENSER
		MH	MANHOLE	TS	TUBE STEEL
		MIN	MINIMUM	TV	TELEVISION
		MIR	MIRROR	TYP	TYPICAL
		MISC	MISCELLANEOUS		
		MO	MASONRY OPENING		
		MR	MOISTURE RESISTANT		
		MT	MOUNT (ED, ING)		
		MTL	MATERIAL (S)		
		NA	NOT APPLICABLE		
		NIC	NOT IN CONTRACT		
		NO	NUMBER		
		NOM	NOMINAL		
		NR	NONE REQUIRED		
		NRC	NOISE REDUCTION COEFFICIENT		
		NTS	NOT TO SCALE		
		OA	OVERALL		
		OB	OBSCURE		
		OC	ON CENTER (S)		
		OD	OUTSIDE DIAMETER		
		OCI	OWNER FURNISHED CONTRACTOR		
		OFI	OWNER FURNISHED OWNER INSTALLED		
		OH	OVERHEAD		
		OPG	OPENING		
		OPH	OPPOSITE HAND		
		OPP	OPPOSITE		
		ORD	OVERFLOW ROOF DRAIN		
		OZ	OUNCE		
		PAR	PARALLEL		
		PC	PRECAST CONCRETE		
		PERP	PERPENDICULAR		
		PL	PLATE		
		PLAM	PLASTIC LAMINATE		
		PLBG	PLUMBING		
		PNT	PAINT (ED)		
		PRN	PORCELAIN		
		PSF	POUNDS PER SQUARE FOOT		
		PSI	POUNDS PER SQUARE INCH		
		PTN	PARTITION		
		PVC	POLYVINYL CHLORIDE		
		PVMT	PAVEMENT		

# SYMBOLS LEGEND

## GRAPHIC SYMBOLS



## TEXT SYMBOLS

&	AN
@	A
X	B
x	Y
#	POUND OR NUMBER
/	PE
:	R
'	FEET
X	(X)
'	(X)
"	INCHES

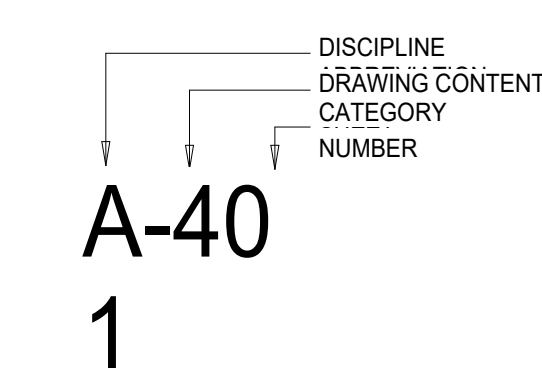
## DISCIPLINE INDEX

G	GENERAL INFORMATION
C	CIVIL DRAWINGS
L	LANDSCAPE DRAWINGS
IR	IRRIGATION DRAWINGS
S	STRUCTURAL DRAWINGS
A	ARCHITECTURAL DRAWINGS
M	MECHANICAL DRAWINGS
P	PLUMBING DRAWINGS
F	FIRE ALARM DRAWINGS
A	FIRE PROTECTION DRAWINGS
E	ELECTRICAL DRAWINGS
T	TECHNOLOGY DRAWINGS

## CONTENT INDEX

0	GENERAL INFORMATION AND STANDARDS
1	FINISH AND ROOF DRAWINGS
2	EXTERIOR ELEVATIONS AND BUILDING SECTIONS
4	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS
6	SCHEDULES AND ASSOCIATED DETAILS
7	WALL SECTIONS AND EXTERIOR DETAILS
8	INTERIOR DETAIL DRAWINGS POWER AND SIGNAL DRAWINGS

## SHEET NUMBERING



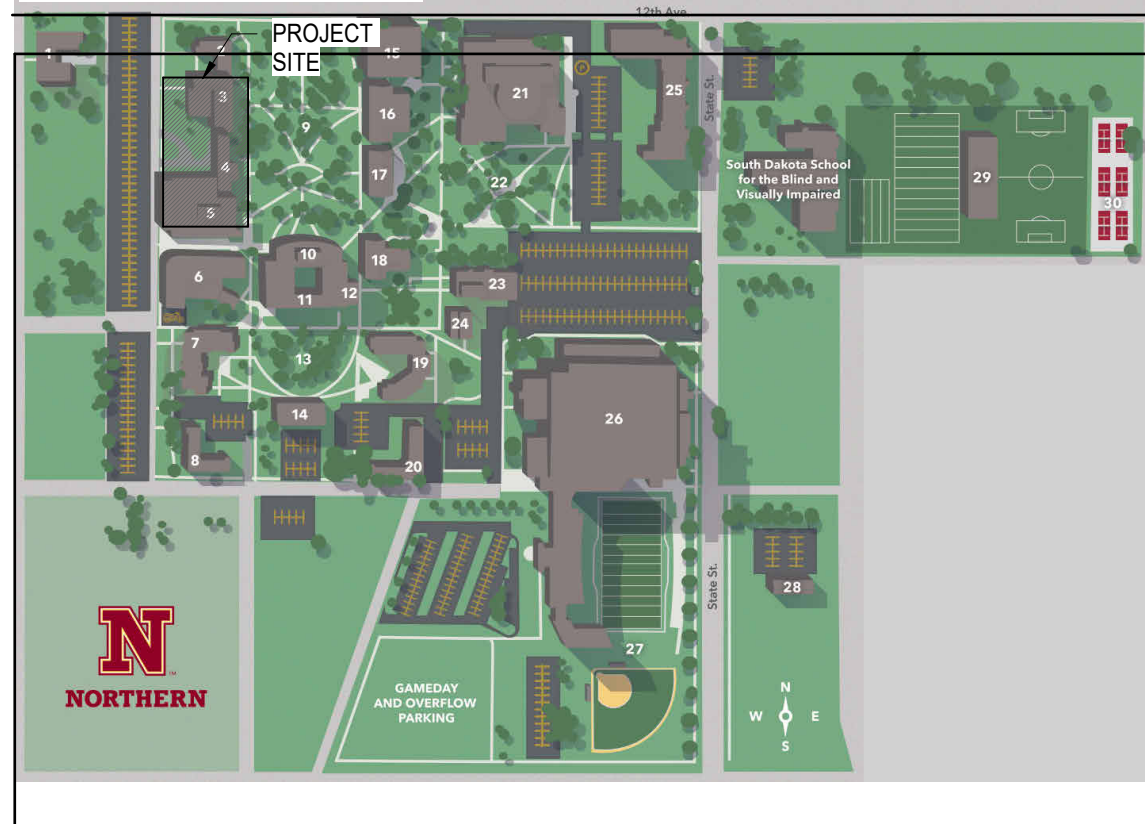
## MATERIAL PATTERNS

[Pattern]	BRICK MASONRY
[Pattern]	CEMENT PLASTER
[Pattern]	CONCRETE - CAST-IN-PLACE
[Pattern]	CONCRETE MASONRY
[Pattern]	EARTH OR BACKFILL
[Pattern]	GRAVEL OR ROAD BASE
[Pattern]	GYPSUM BOARD
[Pattern]	INSULATION - BATT
[Pattern]	INSULATION - BATT - MINERAL WOOL
[Pattern]	INSULATION - RIGID
[Pattern]	INSULATION - RIGID - MINERAL WOOL
[Pattern]	INSULATION - SPRAY FOAM
[Pattern]	LIMESTONE
[Pattern]	METAL - ALUMINUM
[Pattern]	METAL - STEEL
[Pattern]	MORTAR
[Pattern]	PLYWOOD
[Pattern]	WOOD
[Pattern]	DAMP-PROOFING (BROWN)
[Pattern]	WATERPROOFING (BLUE)
[Pattern]	AIR BARRIER (GREEN)
[Pattern]	FLEXIBLE FLASHING - AIR BARRIER (GREEN)
[Pattern]	WEATHER BARRIER (GREEN)
[Pattern]	UNDERLAYMENT (BLUE)
[Pattern]	VAPOR RETARDER (BROWN)
[Pattern]	FLEXIBLE FLASHING - MASONRY (BLUE)
[Pattern]	FLASHING, ROOF MEMBRANE (BLUE)

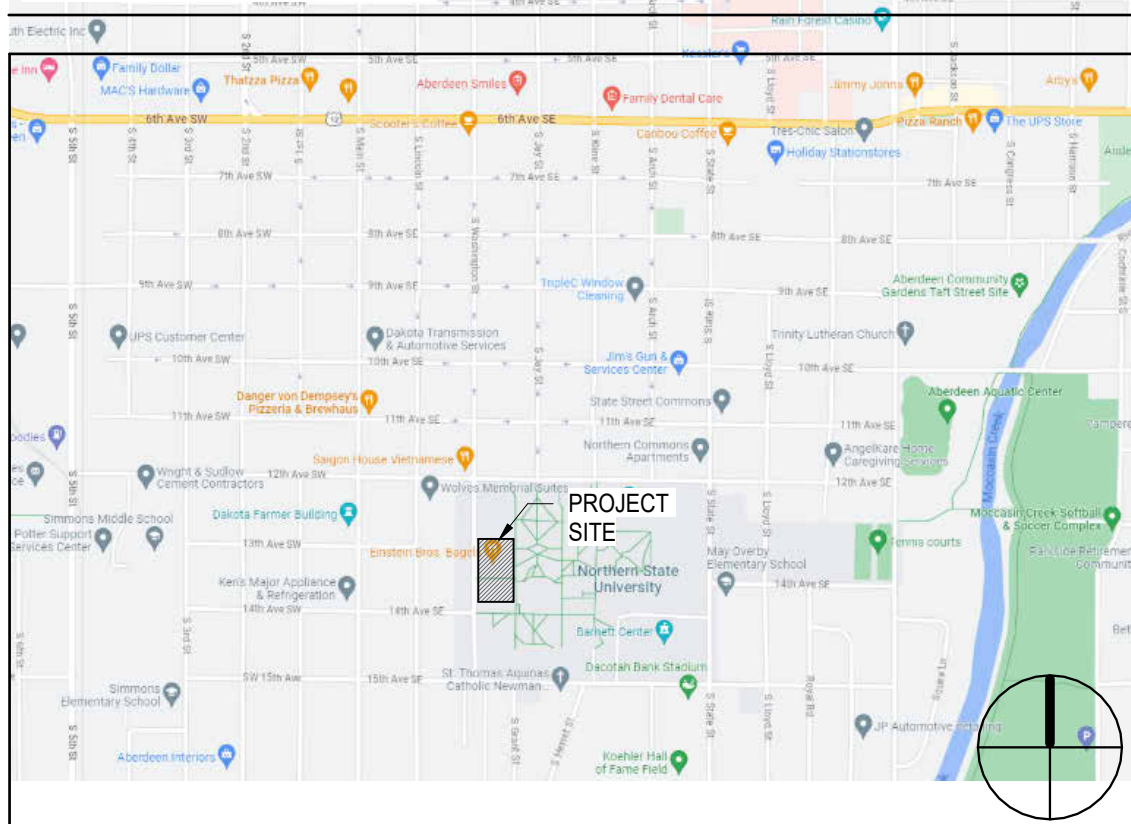
# DRAWING INDEX

G-000	COVER SHEET	M100	MOTOR SCHEDULE, LEGEND & SHEET INDEX
G-100	INDEX & ABBREVIATIONS	M200	MECHANICAL SITE PLAN
G-101	CODE SITE PLAN & CODE ANALYSIS	M201	MECHANICAL ROOF PLAN
G-102	CODE PLANS	M300	LEVEL 1 - ABOVE GRADE PLUMBING & HYDRONICS PLAN
G-103	GREEN GLOBES PRELIMINARY CHECKLIST	M301	LEVEL 1 - ABOVE GRADE PLUMBING & HYDRONICS PLAN
		M302	PENTHOUSE LEVEL - ABOVE GRADE PLUMBING & HYDRONICS PLAN
C-100	EXISTING SITE CONDITIONS TOPOGRAPHIC SURVEY	M303	FIRE PROTECTION - LEGENDS & DETAILS
C-101	DEMOLITION PLAN	M400	LEVEL 1 - FIRE PROTECTION PLAN
C-102	BASE BID SITE GRADING PLAN	M401	LEVEL 1 - FIRE PROTECTION PLAN
C-103	ALTERNATE SITE GRADING PLAN	M402	PENTHOUSE LEVEL - FIRE PROTECTION PLAN
C-104	SITE UTILITY PLAN	M500	LEVEL 1 - HVAC PLAN
C-105	DETAILS	M501	LEVEL 2 - HVAC PLAN
C-106	DETAILS	M502	PENTHOUSE LEVEL - HVAC PLAN
L-201	SITE FEATURES PLAN	M503	HVAC TEMPERATURE CONTROL ZONE PLAN
L-301	PLANTING PLAN	M600	WASTE VENT RISER DIAGRAM
L-302	IRRIGATION PLAN	M601	WATER RISER DIAGRAM
L-501	SITE DETAILS	M602	HYDRONIC PIPING RISER DIAGRAM
L-502	SITE DETAILS	M603	PLUMBING FIXTURE SCHEDULE
L-503	IRRIGATION SCHEDULES AND DETAILS	M700	MECHANICAL DETAILS
S001	STRUCTURAL NOTES & SCHEDULES	M701	MECHANICAL DETAILS
S002	STRUCTURAL SCHEDULES	M702	MECHANICAL DETAILS
S101	FOOTING & FOUNDATION PLAN	M703	MECHANICAL DETAILS
S201	SECOND FLOOR FRAMING PLAN	M800	MECHANICAL SECTIONS
S202	MECHANICAL PENTHOUSE FLOOR FRAMING PLAN	M801	MECHANICAL SECTIONS CONTINUED
S301	ROOF FRAMING PLAN	M800	MECHANICAL SCHEDULES
S401	GRAHAM STRUCTURAL PLANS	M100A	GRAHAM STUDENT CENTER MOTOR SCHEDULE, LEGEND & SHEET INDEX
S402	SOUTH CONNECTOR PLANS - ALT#13	M200A	GRAHAM HALL - BASEMENT MECHANICAL DEMOLITION PLAN
S403	SOUTH CONNECTOR PLANS - ALT#14	M301A	GRAHAM HALL - LEVEL 1 MECHANICAL PROPOSED PLAN
S501	ENLARGED FRAMING PLANS	M302A	GRAHAM HALL - LEVEL 2 MECHANICAL PROPOSED PLAN
S601	STRUCTURAL DETAILS	M400A	STUDENT CENTER - LOWER LEVEL MECH & FIRE PROTECTION DEMO & PROPOSED PLAN
S602	STRUCTURAL DETAILS	M501A	GRAHAM STUDENT CENTER MECHANICAL DETAILS
S603	STRUCTURAL DETAILS	M502A	GRAHAM STUDENT CENTER MECHANICAL SECTIONS
S604	STRUCTURAL DETAILS		GRAHAM STUDENT CENTER MECHANICAL SCHEDULES
S605	STRUCTURAL DETAILS	E000	ELECTRICAL COVERSHEET
S606	STRUCTURAL DETAILS	E001	ELECTRICAL SYSTEMS COVERSHEET
S607	STRUCTURAL DETAILS	E100	SITE DEMOLITION PLAN - ELECTRICAL
S608	STRUCTURAL DETAILS	E101	SITE REMODEL PLAN - ELECTRICAL
S609	STRUCTURAL DETAILS	E200	LEVEL 1 PLAN - LIGHTING
AD-100	SITE DEMO PLAN	E201	LEVEL 2 PLAN - LIGHTING
A-101	LEVEL 1 FLOOR PLAN	E210	LEVEL 1 PLAN - POWER AND SYSTEMS
A-102	LEVEL 2 FLOOR PLAN	E211	LEVEL 2 PLAN - POWER AND SYSTEMS
A-103	MECHANICAL PENTHOUSE FLOOR PLAN & CONFERENCE ROOM ROOF PLAN	E220	PENTHOUSE PLAN - ELECTRICAL
A-104	TOWER & CHIMNEY FLOOR PLAN	E300	ELECTRICAL DETAILS
A-105	ROOF PLAN	E400	ELECTRICAL RISER DIAGRAMS - LINCOLN HALL
A-106	SOUTH CONNECTOR PLANS, ELEVATIONS, SECTIONS - ALTERNATE #13	E500	ELECTRICAL SCHEDULES
A-107	SOUTH CONNECTOR PLANS, ELEVATIONS, SECTIONS - ALTERNATE #14	E600	ELECTRICAL PANEL SCHEDULES
A-108	GRAHAM HALL - DEMO PLANS	E601	ELECTRICAL PANEL SCHEDULES
A-109	GRAHAM HALL - FLOOR PLANS & CEILING PLANS	E602	ELECTRICAL PANEL SCHEDULES
A-110	LEVEL 1 REFLECTED CEILING PLAN	E603	ELECTRICAL PANEL SCHEDULES
A-111	LEVEL 2 REFLECTED CEILING PLAN	E604	ELECTRICAL COVERSHEET
A-112	LEVEL 1 FINISH PLAN	E100A	ELECTRICAL SITE PLAN
A-121	LEVEL 2 FINISH PLAN	E200A	LINCOLN & GRAHAM HALL - ELECTRICAL DEMOLITION PLAN
A-122	SOUTH & WEST ELEVATIONS	E300A	LINCOLN & GRAHAM HALL - LOWER LEVEL ELECTRICAL
A-201	NORTH & EAST ELEVATIONS	E400A	ELECTRICAL DETAILS AND SCHEDULES
A-202	BUILDING SECTIONS	E500A	ELECTRICAL DIAGRAMS
A-205	BUILDING SECTIONS	E600A	ELECTRICAL SCHEDULES
A-206	BUILDING SECTIONS	T000	TECHNOLOGY COVERSHEET
A-207	BUILDING SECTIONS	T101	LEVEL 01 PLAN - PATHWAY & SECURITY
A-403	ENLARGED NORTH STAIR PLANS AND SECTIONS	T200	LEVEL 02 PLAN - TECHNOLOGY
A-404	ENLARGED SOUTH STAIR PLANS AND SECTIONS	T300	LEVEL 1 PLAN - PATHWAY & SECURITY
A-405	ENLARGED NORTH ELEVATOR PLANS AND SECTIONS	T301	TECHNOLOGY ENLARGEMENT
A-406	ENLARGED SOUTH CONNECTOR STAIR AND ELEVATOR - ALT #14	T400	TECHNOLOGY DETAILS AND DIAGRAMS
A-411	ENLARGED RESTROOM PLANS	T401	TECHNOLOGY DETAILS AND DIAGRAMS
A-412	INTERIOR ELEVATIONS - LOBBY / COMMONS	T402	TECHNOLOGY DIAGRAMS
A-421	INTERIOR ELEVATIONS - CORRIDORS LEVEL 1	T403	TECHNOLOGY DIAGRAMS
A-422	INTERIOR ELEVATIONS - LEVEL 1	T404	TECHNOLOGY DIAGRAMS
A-423	INTERIOR ELEVATIONS - LEVEL 2	T500	TECHNOLOGY SCHEDULE
A-424	ENLARGED PLAN & ELEVATIONS - ACTIVE LEARNING 101 & 102 CENTER		
A-425	ENLARGED PLAN & ELEVATIONS - NORTHERN INNOVATION STARTUP CENTER		
A-426	ENLARGED PLAN & ELEVATIONS - LEVEL 1 & 2 ADMIN & FACULTY ROOMS		
A-427	ENLARGED PLAN & ELEVATIONS - CLASSROOMS 201 & 202		
A-428	ENLARGED PLAN & ELEVATIONS - CLASSROOM LARGE 212		
A-429A	ENLARGED PLAN & ELEVATIONS - CLASSROOM LARGE 212 - ALTERNATE #9		
A-429B	ENLARGED PLAN & ELEVATIONS - CLASSROOM LARGE 212 - ALTERNATE #9		
A-430	ENLARGED PLAN & ELEVATIONS - SKILLS LAB 213		
A-431	ENLARGED PLAN & ELEVATIONS - SIMULATION SUITE		
A-432	ENLARGED ELEVATIONS - SIMULATION SUITE		
A-433	ENLARGED PLAN & ELEVATIONS - LEVEL 2 ADMIN & FACULTY ROOMS		
A-501	FINISH LEGEND & EQUIPMENT SCHEDULE		
A-502	DOOR SCHEDULE AND DETAILS		
A-503	EXTERIOR WINDOW SCHEDULE		
A-504	INTERIOR WINDOW SCHEDULE		
A-505	CASEWORK SCHEDULE		
A-601	EXTERIOR WALL & ROOF ASSEMBLIES		
A-602	PARTITION TYPES		
A-611	WALL SECTIONS		
A-612	WALL SECTIONS		
A-613	WALL SECTIONS		
A-614	WALL SECTIONS		
A-615	WALL SECTIONS		
A-616	WALL SECTIONS - SOUTH CONNECTOR		
A-621	EXTERIOR DETAILS		
A-622	EXTERIOR DETAILS		
A-623	EXTERIOR DETAILS		
A-624	EXTERIOR DETAILS		
A-625	EXTERIOR DETAILS		
A-701	CEILING DETAILS		
A-702	MILLWORK DETAILS		
A-703	FLOOR TRANSITION DETAILS		
A-704	INTERIOR DETAILS - STAIR AND GUARDRAIL		
A-705	INTERIOR WINDOW DETAILS		

## CAMPUS MAP

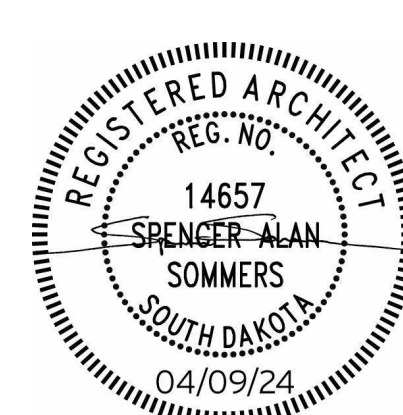


## VICINITY MAP



ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION

Seal Issue Date  
100% CONSTRUCTION DOCUMENTS APRIL 9, 2024



## LINCOLN HALL

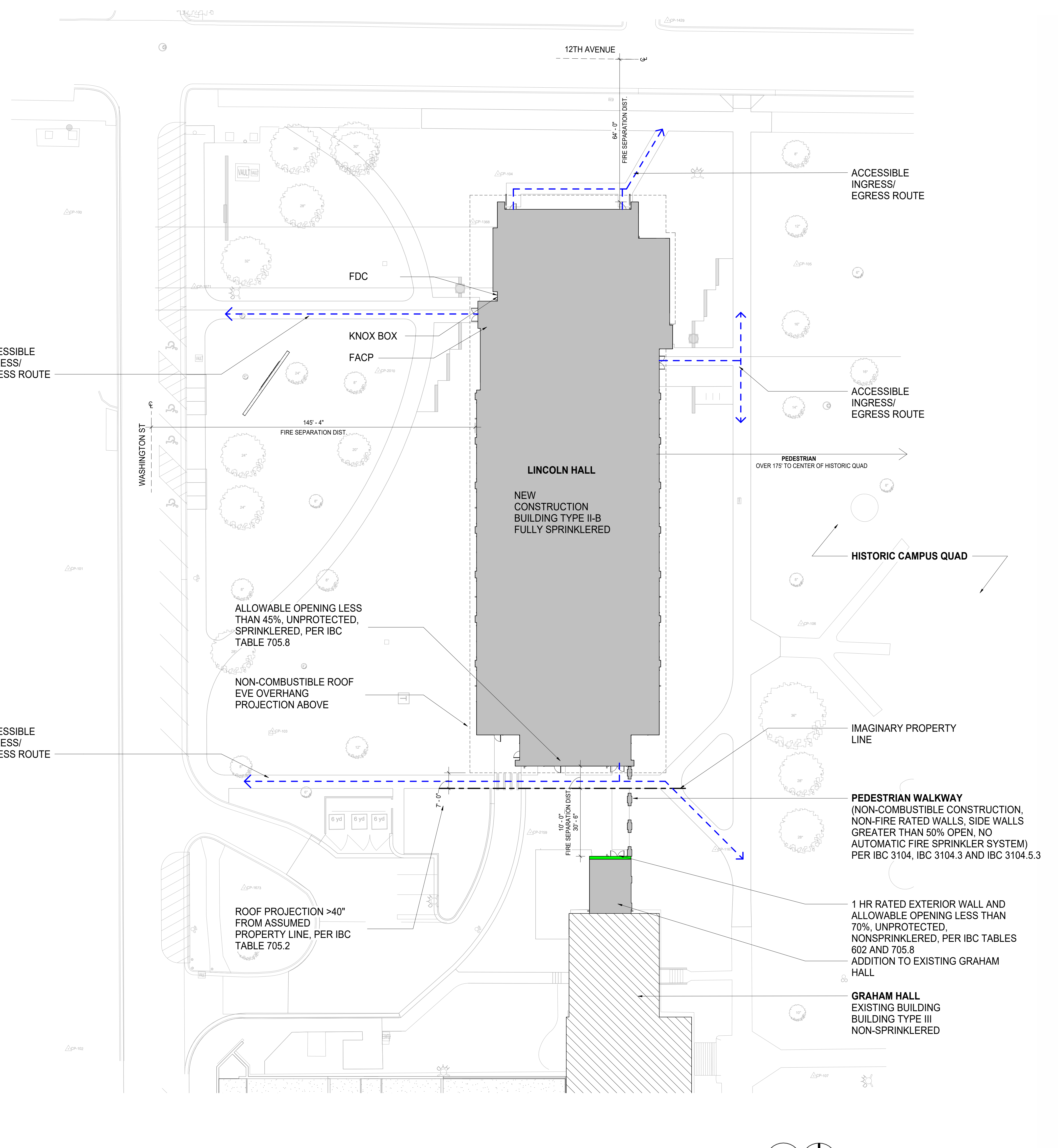
12th Ave SE, Aberdeen, SD 57401  
21-261 AMD / 2160 CO-OP  
Nothern State University  
1200 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261 AMD / 2160 CO-OP  
Drawn By: AMD / CO-OP  
Reviewed By: SHBB/AD  
Approved By: CO-OP

## INDEX & ABBREVIATIONS

**Architect of Record**  
CO-OP Architecture  
110

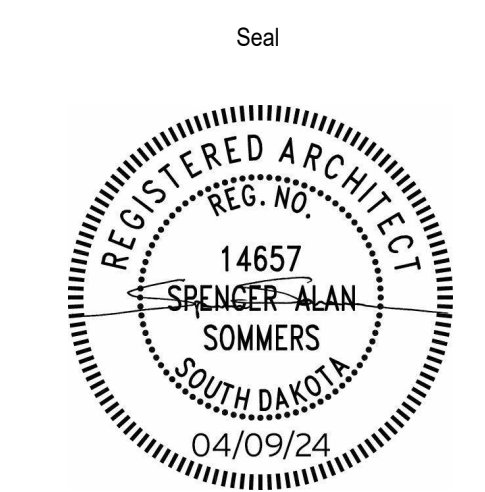




NORTHERN STATE UNIVERSITY - LINCOLN HALL			
<b>APPLICABLE CODES</b>	2018 INTERNATIONAL BUILDING CODE (IBC) AS 17.1 (2009)	2018 INTERNATIONAL MECHANICAL CODE (IMC) AS 17.1 (2009), 13 (2018), 30 (2018)	
	2018 INTERNATIONAL PLUMBING CODE (IPC) AS 17.1 (2009), 10 (2018), 101 (2018), 110 (2018)	2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) AS 17.1 (2009), 101 (2018), 110 (2018)	
	2018 INTERNATIONAL FUEL GAS CODE (IFGC) AS 17.1 (2009), 101 (2018), 110 (2018)	2018 INTERNATIONAL FIRE CODE (IFC) AS 17.1 (2009), 101 (2018), 110 (2018)	
<b>CODE SUMMARY</b>	NORTHERN STATE UNIVERSITY - LINCOLN HALL		
<b>BUILDING LOCATION</b>	12TH AVE SE, ABERDEEN, SD 57401		
<b>GENERAL</b>	TWO STORY STEEL FRAMED OFFICE, ASSEMBLY, AND CLASSROOMS		
	AUTOMATIC SPRINKLER SYSTEM		
<b>USE, OCCUPANCY, SPECIAL CONSTRUCTION</b>	BUSINESS, ASSEMBLY A.3	IBC 508.3	IBC 304.4, 304.1, 311
<b>OCCUPANCY CLASSIFICATION</b>	NON-SEPARATED OCCUPANCIES	IBC 508.3	IBC 311.1.1
<b>ACCESSORY STORAGE SPACES</b>	CLASSIFIED AS PART OF OCCUPANCY	IBC 3104.3	IBC 3104.3
<b>PEDESTRIAN WALKWAYS</b>		IBC 3104.3	NON-COMBUSTIBLE CONSTRUCTION DISTANCE BETWEEN CONNECTED BUILDINGS > 10'-0\"/>
<b>HEIGHT AND AREA - ALLOWABLE</b>			
CONSTRUCTION TYPE	II-B	IBC TABLE 601	
ALLOWABLE HEIGHT (A-3)	75 FT	IBC TABLE 604.3	AUTO SPRINKLER
ALLOWABLE STORIES ABOVE GRADE (A-3)	5	IBC TABLE 604.3	AUTO SPRINKLER
ACTUAL HEIGHT	56 FT		
ACTUAL NUMBER OF STORIES ABOVE GRADE	2		
<b>ALLOWABLE AREA</b>			
(A) TYPICAL AREA FACTOR	69,000	IBC TABLE 506.2	(RM) SPRINKLERED
(B) SPECIAL AREA FACTOR (NON-SPRINKLERED)	21,000	IBC TABLE 506.2	
(C) FRONTAGE INCREASE FACTOR	1.75	IBC 506.3.3	GREATER THAN 75% BLDG PERIMETER > 30' OPEN SPACE
ALLOWABLE AREA FOR EACH STORY (B)	66,250	IBC 506.2.2	(A) < (B) (where (A) < (B) (21,000 x 0.75))
<b>ACTUAL AREAS</b>			
LEVEL ONE A-3 OCCUPANCY	2,300		
LEVEL ONE B OCCUPANCY	16,433		
EXTERIOR AREA UNDER OVERHANG OF LEVEL 2 (UNOCCUPIED)	7,300		
<b>TOTAL LEVEL 1</b>	<b>26,033</b>		
LEVEL ONE A-3 OCCUPANCY	2,377		
LEVEL TWO B OCCUPANCY	15,443		
MECHANICAL PENTHOUSE	3,241		
<b>TOTAL LEVEL 2</b>	<b>18,684</b>		
<b>TOTAL FULL BUILDING</b>	<b>44,717</b>		
<b>FIRE PROTECTION SYSTEMS</b>			
SPRINKLER SYSTEM	THROUGHOUT PER NFPA 13	IBC 903	Per 508.3, most restrictive provisions of Chap 9 for A-3 occupancy apply to whole building
FIRE ALARM SYSTEM	NEW PROVIDED	IBC 907.2.1	DUCT SMOKE DETECTORS PER 907.3.1, SPECIAL LOCKING SYSTEM DETECTOR PER 1010.2.1.1 or 1010.2.1.4, STATING DEVICES PER 907.4
<b>STANDPIPES</b>	NOT REQUIRED	IBC 905.3.1	NOT 4 & 5 STORY BLDGS. FLOORS NOT LOCATED MORE THAN 30' FT ABOVE/BELLOW FIRE DEPT VEHICLE ACCESS
<b>TWO-WAY EMERGENCY RESPONDER COMMUNICATION</b>	THROUGHOUT	IBC 918.1	IFC SECTION 510
<b>PORTABLE FIRE EXTINGUISHERS</b>	THROUGHOUT PER NFPA 10	IBC 906.1, IFC	
<b>BIDIRECTIONAL RADIO AMPLIFICATION SYSTEM</b>	THROUGHOUT	IBC 918	
<b>FIRE RESISTANCE RATED CONSTRUCTION</b>			
SHAFTS	1 HR (NOT USED)	IBC 713.4	IF USED, SUPPORTING CONSTRUCTION ALSO RATED PER IBC 705.1.1
DUCT / FLOOR PENETRATIONS	NO SHAFT / FIRE DAMPER	IBC 717.6.3	COMMUNICATE BETWEEN ONLY 2 STORIES
<b>EXIT ACCESS STAIRWAYS</b>	UNPROTECTED	IBC 1018.3.1	CONNECTING BETWEEN ONLY 2 STORIES
INTERIOR EXIT STAIRWAYS (NOT USED)	1 HR (NOT USED)	IBC 1023.2	CONNECTING LESS THAN 4 STORIES
PARALLEL ELEVATOR HOISTWAY	1 HR	IBC 714.4	
<b>FLOOR ASSEMBLIES</b>	0 HR	IBC TABLE 601	
<b>ROOF ASSEMBLIES</b>	0 HR	IBC TABLE 601	
<b>STRUCTURAL FRAME</b>	0 HR	IBC TABLE 601	LOAD BEARING STRUCTURAL MEMBERS LOCATED OUTSIDE OF A BUILDING SHALL BE 2 HRS RATED PER IBC 704.10
<b>EXTERIOR LOAD BEARING WALLS</b>	0 HR	IBC TABLE 601	
<b>EXTERIOR NONBEARING WALLS/PARTITIONS</b>	0 HR	IBC TABLE 602, 705.6	GREATER THAN 30 FEET SEPARATION
<b>EXTERIOR NONBEARING PARTITIONS</b>	0 HR	IBC TABLE 601	
<b>CORRIDORS</b>	0 HR	IBC TABLE 1020.1	WITH SPRINKLER
<b>EXTERIOR WALLS BASED ON FIRE SEPARATION DIST.</b>	0 HR	IBC TABLE 705.5	TYPE II-B, WALL 3'-0\"/>
<b>EXTERIOR WALL OPENINGS</b>	UNLIMITED UNPROTECTED OPENINGS	IBC TABLE 705.8	WITH SPRINKLER > GREATER THAN 30 FEET SEPARATION
<b>FIRE BARRIERS (NOT USED)</b>	2 HR	707.3.10	TYPE II-B, W/ AUTOMATIC SPRINKLER SYSTEM
<b>PARAPETS</b>	NOT REQUIRED	IBC 706.11 EXCEPTION #1	
<b>PENETRATIONS IN ROOF AND FLOOR ASSEMBLIES</b>	NOT REQUIRED	IBC 714.6	ANNULAR SPACE FILLED TO RESIST FLAME/SMOKE PASSAGE
<b>PROJECTIONS</b>	NON-COMBUSTIBLE MATERIALS	IBC 705.2.1	
<b>MEANS OF EGRESS</b>			
OCCUPANT LOAD FACTOR	115 NET	IBC TABLE 1004.6	
ASSEMBLY (UNCONCENTRATED TABLES / CHAIRS)	1 SEAT PER 10' LENGTH	IBC 1004.6	
CONFERENCE / LOUNGE	115 NET		
CLASSROOM AREAS	115 NET		
VOCATIONAL (LABS AND SKILLS TRAINING)	115 NET		
OFFICE (B)	115 GROSS		
STORAGE, MECHANICAL	115 GROSS		
<b>OCCUPANTS (CALCULATED FOR EXITING)</b>			
LEVEL ONE	289		
LEVEL TWO	482		

MEANS OF EGRESS SIZING			
36 INCH WIDE DOORS	320.15 + 220	IBC 1009.3.2 EX 1	
72 INCH WIDE DOORS	660.15 + 440	IBC 1009.3.2 EX 1	
<b>MINIMUM CORRIDOR WIDTH</b>	<b>44 INCHES</b>	IBC 1020.3	
<b>CORRIDORS</b>	<b>WIDTH 15</b>	IBC 1009.3.2 EX 1	MINIMUM WIDTH 44\"/>
<b>STAIRWAYS</b>	<b>WIDTH 2</b>	IBC 1005.3.1 EX 1	
<b>EXIT SIGNS</b>	PROVIDED IN COMPLIANCE WITH	IBC 1013	
<b>EXIT SIGN ILLUMINATION</b>	PROVIDED IN COMPLIANCE WITH	IBC 1008	
<b>EXIT ACCESS TRAVEL DISTANCE</b>	200 FT AT A OCCUPANCY, 300 FT AT B OCCUPANCY	IBC TABLE 1017.2	WITH SPRINKLER SYSTEM
<b>EXIT THROUGH INTERFERING SPACES</b>		IBC 1016.2	
<b>NUMBER OF EXITS FROM ROOM</b>	1 REQUIRED IF OCC LOAD < 50	IBC TABLE 1009.2.1	
	2 REQUIRED IF OCC LOAD > 50	IBC TABLE 1009.2.1	
<b>COMMON PATH OF TRAVEL</b>	75 FT AT A OCCUPANCY AND 100 FT AT B OCCUPANCY	IBC TABLE 1009.2.1	WITH SPRINKLER SYSTEM
<b>EXIT SEPARATION</b>	SEPARATION DISTANCE NOT LESS THAN 1/3 THE MAXIMUM OVERALL DIAGONAL	IBC 1007.1.1 EX 2	
<b>DEAD END CORRIDOR</b>	50 FT AT A OCCUPANCY, 50 FT AT B OCCUPANCY	IBC 1020.1 EXCEPT 2	
<b>FRANK HARDWARE</b>	REQUIRED AT ALL EXIT DOORS SERVING OCC LOAD < 49	IBC 1010.2.9	
<b>ACCESSIBLE MEANS OF EGRESS</b>		IBC 1009	WHERE MORE THAN 2 MEANS OF EGRESS REQUIRED, IF SPACE IS ACCESSIBLE, BOTH MEANS OF EGRESS ARE TO BE ACCESSIBLE
			ELEVATOR NOT REQUIRED FOR ACCESSIBLE ROUTE IN BUILDING LESS THAN 4 STORIES
			6\"/>
			AREA OF REFUGE NOT REQUIRED IN A SPRINKLERED BLDG PER IBC 1009.3.3 EXCEPT 1
			NO EXTERIOR MEANS FOR ASSISTED RESCUE USED
			PROVIDE DIRECTIONAL SIGNAGE PER IBC 1009.10
<b>TWO-WAY COMMUNICATION</b>	NOT REQUIRED AT ELEVATOR LANDINGS	IBC 1009A EXCEPT 3	SERVICE ELEVATORS THAT ARE NOT DESIGNATED PART OF THE ACCESSIBLE MEANS OF EGRESS
<b>ROOF ACCESS</b>	STAIRWAY NOT REQUIRED, HATCH AND LADDER PROVIDED	IBC 1011.12	STAIRWAY TO ROOF ONLY REQUIRED IN 4+ STORY BUILDINGS
<b>INTERIOR FINISHES</b>			
EXIST STAIRWAYS AND RAMPS	CLASS B	IBC TABLE 803.13	
CORRIDORS AND EXIT ENCLOSURES	CLASS C	IBC TABLE 803.13	
ROOMS AND ENCLOSED SPACES	CLASS D	IBC TABLE 803.13	
<b>ACCESSIBILITY</b>			
PUBLIC ENTRANCES	60% REQUIRED TO BE ACCESSIBLE	IBC 1105.1	AUTOMATIC DOORS REQUIRED FOR BUILDINGS OCCUPANT LOAD OVER 500 IN BUILDINGS WITH A-3 OCCUPANCY, AND 500 IN B OCCUPANCY
<b>PARKING</b>	ACCESSIBLE SPACES PROVIDED	TABLE 1106.2	
ASSISTIVE LISTENING SYSTEMS	REQUIRED IN ASSEMBLY SPACES	IBC 1109.2.7	
DISHAGE	PROVIDED	IBC 1110.3	
DRINKING FOUNTAINS AND BOTTLE FILL STATIONS	ACCESSIBLE PROVIDED	IBC 1110.5 & 1110.6	
DISHAGE	PROVIDED THROUGHOUT	IBC 1112	
<b>EXTERIOR WALLS</b>			
WATER RESISTIVE BARRIERS	CONTINUOUS PROVIDED	IBC 1402.5	
ASSEMBLIES REQUIRED TO BE NFPA 285 TESTED			
<b>PLASTICS (INSULATION)</b>			
CHAPTER 26, NFPA 285 COMPLIANCE		IBC 1404.7	
1\"/>			
<b>ROOFING</b>			
PLUMBING FIXTURE COUNTS	CLASS C MINIMUM IN TYPE II-B	IBC TABLE 1505.1	CLASS A PROVIDED
SEE TABLE ON CODE PLANS		IBC TABLE 2902.1	
<b>ENERGY COMPLIANCE PATH</b>	PERFORMANCE-BASED	IECC C407	CLIMATE ZONE 6

CODE SITE PLAN ENLARGED 1 3/64" = 1'-0" G-101



Seal Issue Date  
100% CONSTRUCTION DOCUMENTS APRIL 9, 2024

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261 AMD / 2160 CO-OP  
Northern State University  
1200 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261 AMD / 2160 CO-OP  
Drawn By: AMD  
Reviewed By: SHBB  
Approved By: CO-OP

CODE SITE PLAN & CODE ANALYSIS

**G-101**

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4852  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms Engineering  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Structural Engineer**  
Associates, Inc.  
6609 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57105  
Telephone: 605-743-2510  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: traviss@sieng.biz

**Electrical Engineer**  
on  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.j.heinz@meqcorp.com

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION





**LEGEND**

- ONE HOUR FIRE BARRIER
- TRAVEL DISTANCE
- CLASSROOM
- A6
- 1500 SF
- 115
- 100

P PANIC HARDWARE  
F FIRE EXTINGUISHER RECESSED CABINET  
E FIRE EXTINGUISHER SURFACE MOUNTED

**OCCUPANT LOAD FACTOR LEGEND**

- 1:7 NET ASSEMBLY - CONCENTRATED
- 1:15 NET ASSEMBLY NON-CONCENTRATED
- 1:20 NET CLASSROOM
- 1:50 NET VOCATIONAL
- 1:150 GROSS BUSINESS
- 1:300 GROSS STORAGE, MEP

**GENERAL NOTES**

- REFER TO PARTITION TYPE SHEET(S) FOR FIRE RATED PARTITION CONSTRUCTION.
- REFER TO CODE SITE PLAN FOR FIRE SEPARATION DISTANCE INFORMATION.

**CODE - OCCUPANT LOADS AND CLASSIFICATIONS**

Name	Area	Occupancy Classification	Occupant Load	Occupant Load
STORAGE	Not Placed	B	1:300 G	
STORAGE	Not Placed	B	1:300 G	
B	0 SF		0	0
Not Placed	0 SF		0	0
LOBBY	1192 SF	A3	1:7 N	171
CLASSROOM (ASSEMBLY)	1257 SF	A3	1:20 N	63
CLASSROOM (ASSEMBLY)	1145 SF	A3	1:20 N	58
A3	3994 SF			292
OFFICE	10049 SF	B	1:150 G	67
MDP	217 SF	B	1:300 G	1
STORAGE	308 SF	B	1:300 G	2
MEP	496 SF	B	1:300 G	2
STORAGE	299 SF	B	1:300 G	1
OFFICE	483 SF	B	1:150 G	4
MEP	108 SF	B	1:300 G	1
BREAK	174 SF	B	1:15 N	2
CONF	125 SF	B	1:15 N	1
CONF	111 SF	B	1:15 N	1
CONF	115 SF	B	1:15 N	1
CONF	103 SF	B	1:15 N	1
CONF	96 SF	B	1:15 N	1
B	12675 SF			78
LEVEL 1	16209 SF			370
CLASSROOM	961 SF	A3	1:20 N	49
CLASSROOM	980 SF	A3	1:20 N	49
A3	1941 SF			98
LOUNGE	261 SF	B	1:15 N	18
VOCATIONAL (LAB)	73 SF	B	1:50 N	2
OFFICE	4391 SF	B	1:150 G	30
VOCATIONAL (LAB)	189 SF	B	1:50 N	4
STORAGE	193 SF	B	1:300 G	1
VOCATIONAL (LAB)	1092 SF	B	1:50 N	22
CLASSROOM	1850 SF	B	1:20 N	93
CONF	543 SF	B	1:15 N	37
CONF	407 SF	B	1:15 N	28
CONF	402 SF	B	1:15 N	27
LAUNDRY	58 SF	B	1:300 G	1
VOCATIONAL (LAB)	189 SF	B	1:50 N	4
VOCATIONAL (LAB)	277 SF	B	1:50 N	6
VOCATIONAL (LAB)	64 SF	B	1:50 N	2
VOCATIONAL (LAB)	64 SF	B	1:50 N	2
VOCATIONAL (LAB)	249 SF	B	1:50 N	5
VOCATIONAL (LAB)	264 SF	B	1:50 N	6
VOCATIONAL (LAB)	58 SF	B	1:50 N	2
VOCATIONAL (LAB)	259 SF	B	1:50 N	6
STORAGE	116 SF	B	1:300 G	1
B	10999 SF			297
LEVEL 2	12940 SF			395
MECH PENTHOUSE	2550 SF	S	1:300 G	9
S	2550 SF			9
T.O. DECK - MECH PENTHOUSE	2550 SF			9
Grand total	31758 SF			774

**PLUMBING FIXTURE COUNT**

PLUMBING FIXTURES	OCCUPANT LOAD	WATER CLOSETS	WASH SINKS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINKS
A3	REQUIRED: 300	1:20	1:60	1:200	1:300	1:300
BUSINESS	REQUIRED: 300	1:20 per 50' - 150' perimeter	1:60 per 50' - 150' perimeter	1:20 per 50' - 150' perimeter	1:300	1:300
STORAGE	REQUIRED: 0	0:05	0:05	0:05	0:05	0:05
TOTAL REQUIRED		0.39	0.41	0.20	0.20	0.20
TOTAL PROVIDED		0	0	0	0	0

**EGRESS AND COMMON PATH OF TRAVEL DISTANCE SCHEDULE**

ROUTE	TYPE	PATH EGRESS
Route A	EXIT ACCESS TRAVEL DISTANCE	215' - 4'
Route B	EXIT ACCESS TRAVEL DISTANCE	241' - 11"
Route C	EXIT ACCESS TRAVEL DISTANCE	147' - 6"
Route D	EXIT ACCESS TRAVEL DISTANCE	148' - 10"
Route E	EXIT ACCESS TRAVEL DISTANCE	161' - 5"
Route F	COMMON PATH OF TRAVEL	94' - 8"

**LEVEL 1 - CODE PLAN**  
1/16" = 1'-0"  
G-102

**LEVEL 2 - CODE PLAN**  
1/16" = 1'-0"  
G-102

**MECH PENTHOUSE - CODE PLAN**  
1/16" = 1'-0"  
G-102

**CO OP**

**AndersonMasonDale Architects**

Architect of Record  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-224-4852  
E-mail: tom@co-oparch.com

Associate Architect  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-224-1212  
E-mail: lucash@helmsengineering.com

**Structural Engineer**  
Associates, Inc.  
6609 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57105  
Telephone: 605-224-1310  
E-mail: jchristensen@rsenincorp.com

**Electrical Engineer**  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-224-1340  
E-mail: thomas.j.henz@megecorp.com

**Mech & Plumbing Engineer**  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-224-1344  
E-mail: travis@sieng.biz

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION

Seal Issue Date  
100% CONSTRUCTION DOCUMENTS APRIL 9, 2024

**REGISTERED ARCHITECT**  
REG. NO. 14657  
SPENCER-ALAN SOMMERS  
SOUTH DAKOTA  
04/09/24

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261 AMD / 2160 CO-OP

**Northern State University**  
1200 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261 AMD / 2160 CO-OP

Drawn By: AMD / CO-OP

Reviewed By: SHBB/AD

Approved By: CO-OP

**CODE PLANS**

**G-102**

Project Number: 21-261 AMD / 2160 CO-OP

Drawn By: AMD / CO-OP

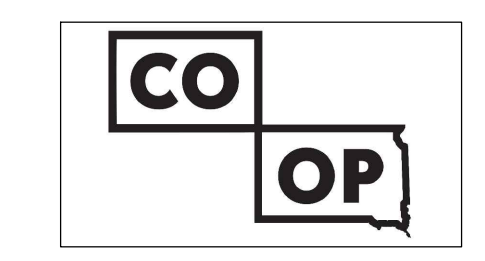
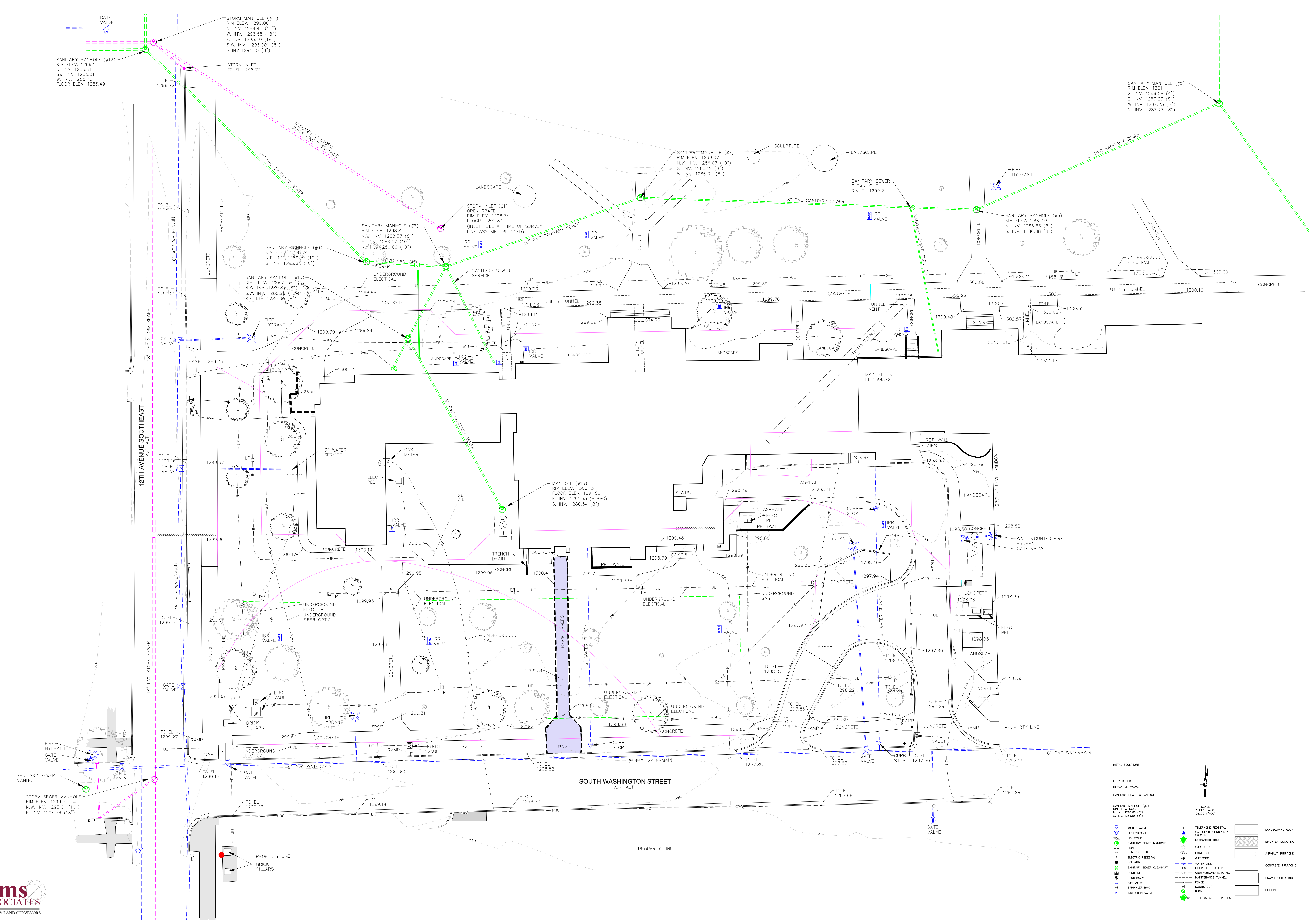
Reviewed By: SHBB/AD

Approved By: CO-OP









**Architect of Record**  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-229-4932  
 E-mail: tom@co-oparch.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-229-1212  
 E-mail: lucash@helmsandassociates.com

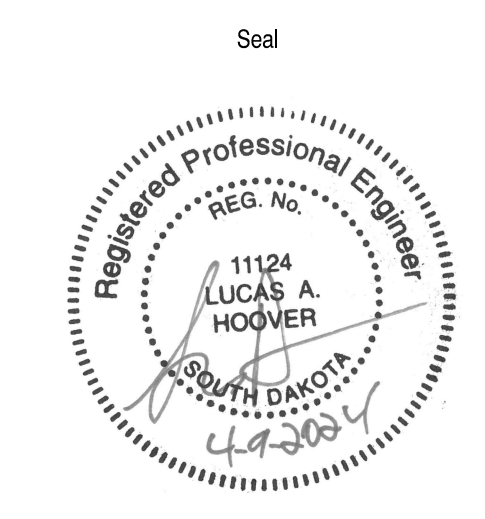
**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57109  
 Telephone: 605-229-1210  
 E-mail: jchastensen@riseincorp.com

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-229-1349  
 E-mail: thomas.j.hejns@imegcorp.com

**Landscape Architect**  
 Confluence  
 524 N Main Ave, Suite 201  
 Sioux Falls, SD 57104  
 Telephone: 605-229-1205  
 E-mail: pudwil@thinkconfluence.com

**Mech & Plumbing Engineer**  
 Schmalzer Engineering  
 801 railroad Ave SE  
 Aberdeen, South Dakota 57401  
 Telephone: 605-229-1344  
 E-mail: traves@secong.biz

REVISION  
 ADD ALTERNATES 20231219  
 REDLINE CHANGES 20240212



Issue  
 100% Construction Documents  
 Date  
 13 February 2024

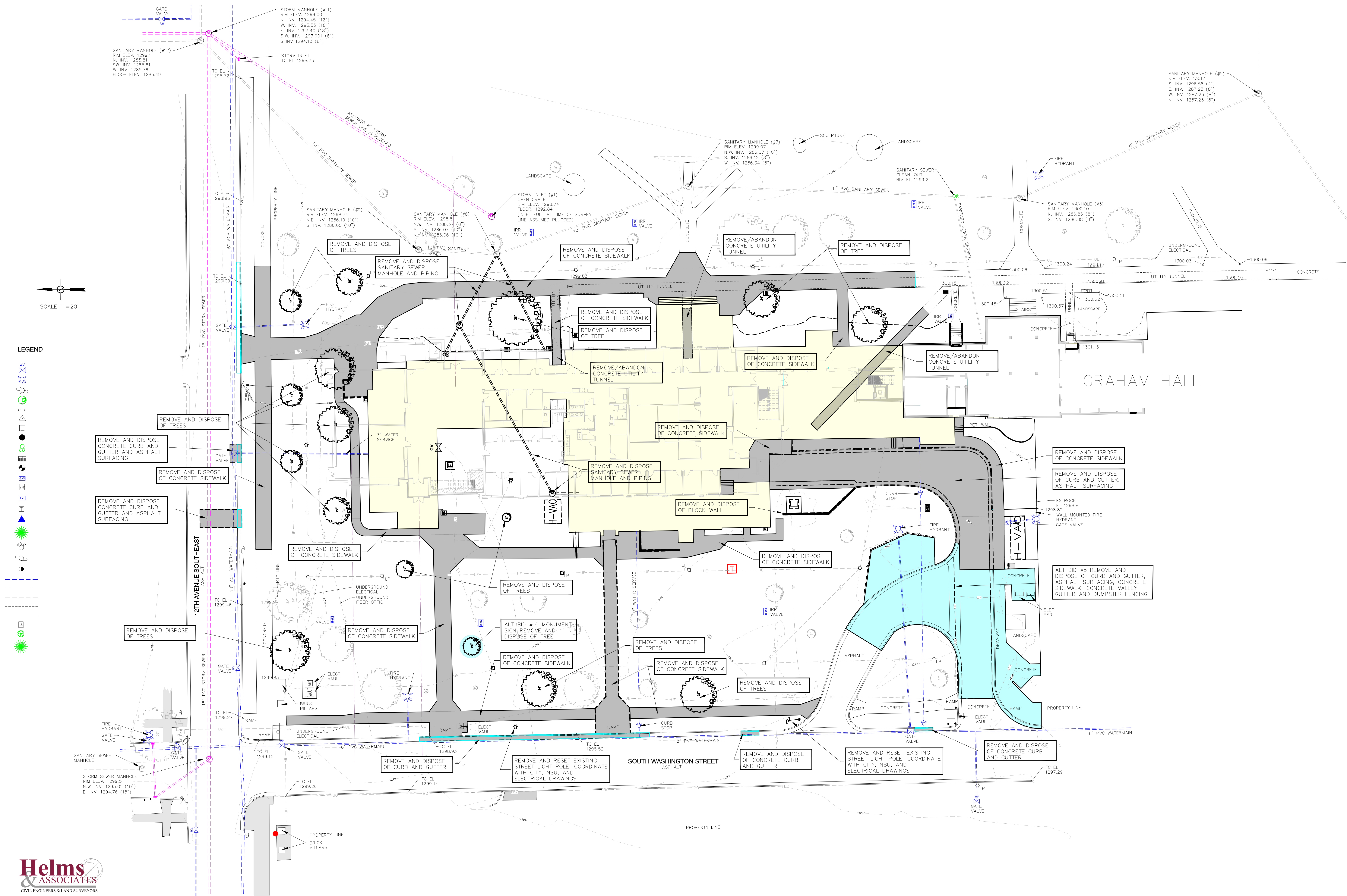
**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261  
 Northern State University  
 1300 S Jay St  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

Project Number: 21-281  
 Drawn By: CDH  
 Reviewed By: LAH  
 Approved By: LAH  
 Helms Job #: 8572-01

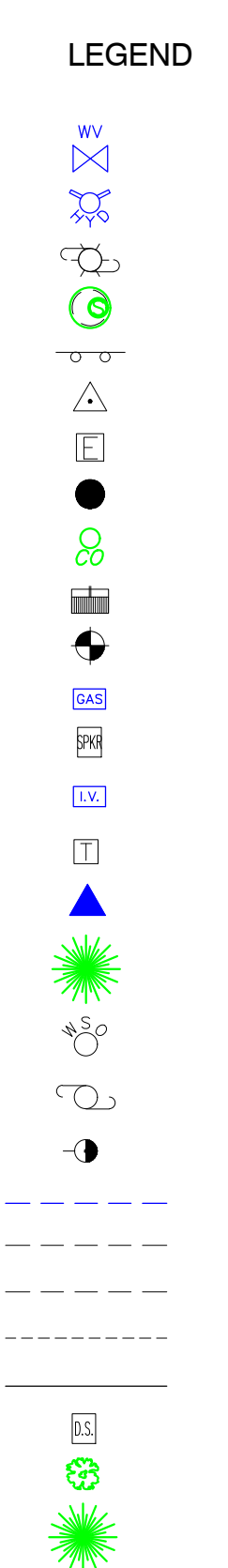
Existing Site Conditions  
 Topographic Survey  
**C-100**

- METAL SCULPTURE  
 FLOWER BED  
 IRRIGATION VALVE  
 SANITARY SEWER CLEAN-OUT
- SANITARY MANHOLE (#6)  
 RIM ELEV. 1300.13  
 N. INV. 1291.58 (8'')  
 S. INV. 1286.34 (8'')
- SCALE  
 1/4" = 1'-0"  
 24x36 1/4" = 30'
- WATER VALVE
  - FIRE HYDRANT
  - LIGHT POLE
  - SANITARY SEWER MANHOLE
  - SON
  - CONTROL POINT
  - BOLLARD
  - SANITARY SEWER CLEANOUT
  - CURB INLET
  - BENCHMARK
  - GAS VALVE
  - SPRINKLER BOX
  - IRRIGATION VALVE
  - TELEPHONE pedestal
  - CALCULATED PROPERTY CORNER
  - FOREIGN TREE
  - CURB STOP
  - POWERSPOLE
  - GUY WIRE
  - WATER LINE
  - FIBER OPTIC UTILITY
  - UNDERGROUND ELECTRIC
  - MAINTENANCE TUNNEL
  - TRUCK
  - DOWNSPOUT
  - ROCK
  - TREE W/ SIZE IN INCHES
  - LANDSCAPING ROCK
  - BRICK LANDSCAPING
  - ASPHALT SURFACING
  - CONCRETE SURFACING
  - GRAVEL SURFACING
  - TRUCK
  - BUILDING

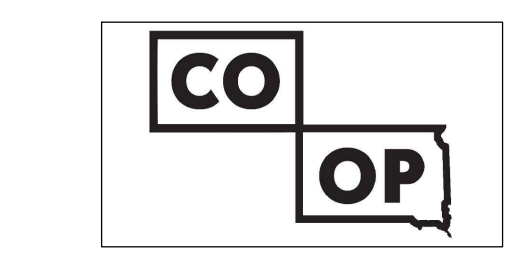




SCALE 1"=20'



**Helm & Associates**  
CIVIL ENGINEERS & LAND SURVEYORS



**AndersonMasonDale Architects**

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-226-4932  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-291-9448  
FAX: 303-294-0762  
E-mail: bblanchar@amdarchitects.com

**Civil Engineer**  
Helm & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-226-1212  
E-mail: lucash@helmsurveyors.com

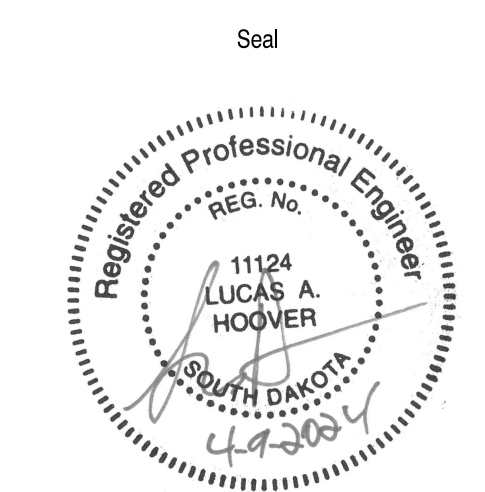
**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-229-1205  
E-mail: pudwil@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-743-8344  
E-mail: jchristensen@risecorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-226-1349  
E-mail: travese@sicong.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave, NE  
Aberdeen, SD 57401  
Telephone: 605-226-1349  
E-mail: thomas.j.heinz@imegcorp.com

REVISION  
ADD ALTERNATES 20231219  
REDLINE CHANGES 20240212



Seal Issue Date  
100% Construction Drawings 13 February 2024

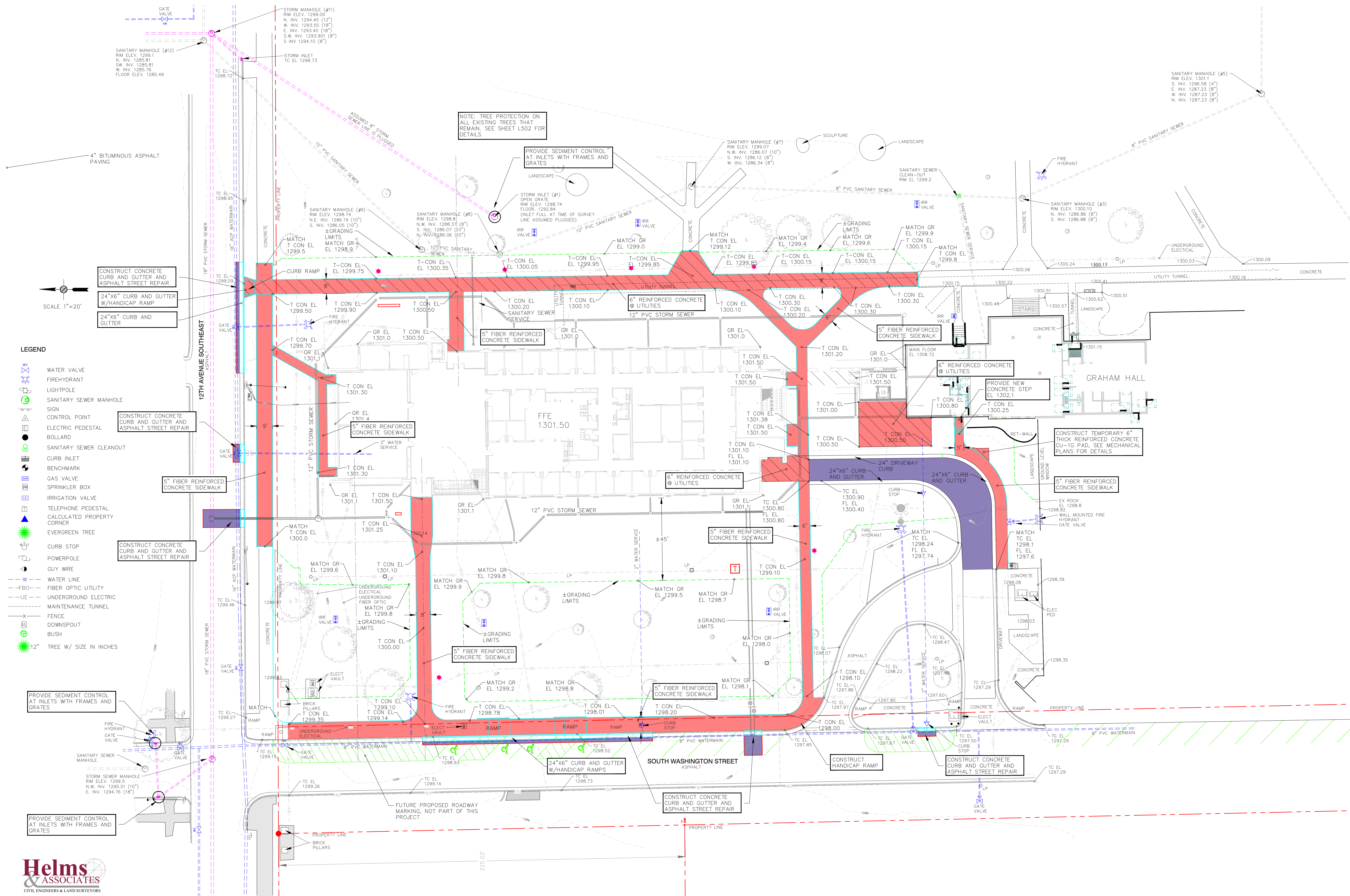
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1300 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CDH  
Reviewed By: LAH  
Approved By: LAH  
Helms Job #: 8572-01

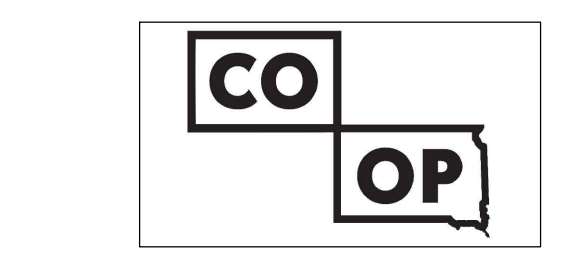
**DEMOLITION PLAN**

**C-101**





- LEGEND**
- WATER VALVE
  - FIREHYDRANT
  - LIGHTPOLE
  - SANITARY SEWER MANHOLE
  - SIGN
  - CONTROL POINT
  - ELECTRIC PEDESTAL
  - BOLLARD
  - SANITARY SEWER CLEANOUT
  - CURB INLET
  - BENCHMARK
  - GAS VALVE
  - SPRINKLER BOX
  - IRRIGATION VALVE
  - TELEPHONE PEDESTAL
  - CALCULATED PROPERTY CORNER
  - EVERGREEN TREE
  - CURB STOP
  - POWERPOLE
  - GUY WIRE
  - WATER LINE
  - FIBER OPTIC UTILITY
  - UNDERGROUND ELECTRIC
  - MAINTENANCE TUNNEL
  - FENCE
  - DOWNSPOUT
  - BUSH
  - 12" TREE W/ SIZE IN INCHES



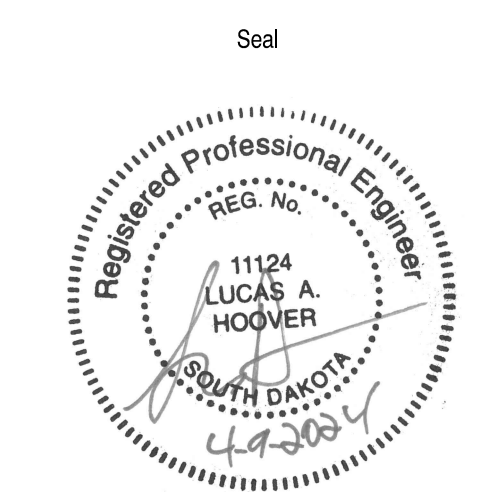
**Architect of Record**  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-229-4932  
 E-mail: tom@co-oparch.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-229-1212  
 E-mail: lucash@helmsengineering.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57109  
 Telephone: 605-743-2310  
 E-mail: jchristensen@riseincorp.com

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-229-1349  
 E-mail: thomas.j.helms@imegcorp.com

REVISION  
 ADD ALTERNATES 20231219  
 REDLINE CHANGES



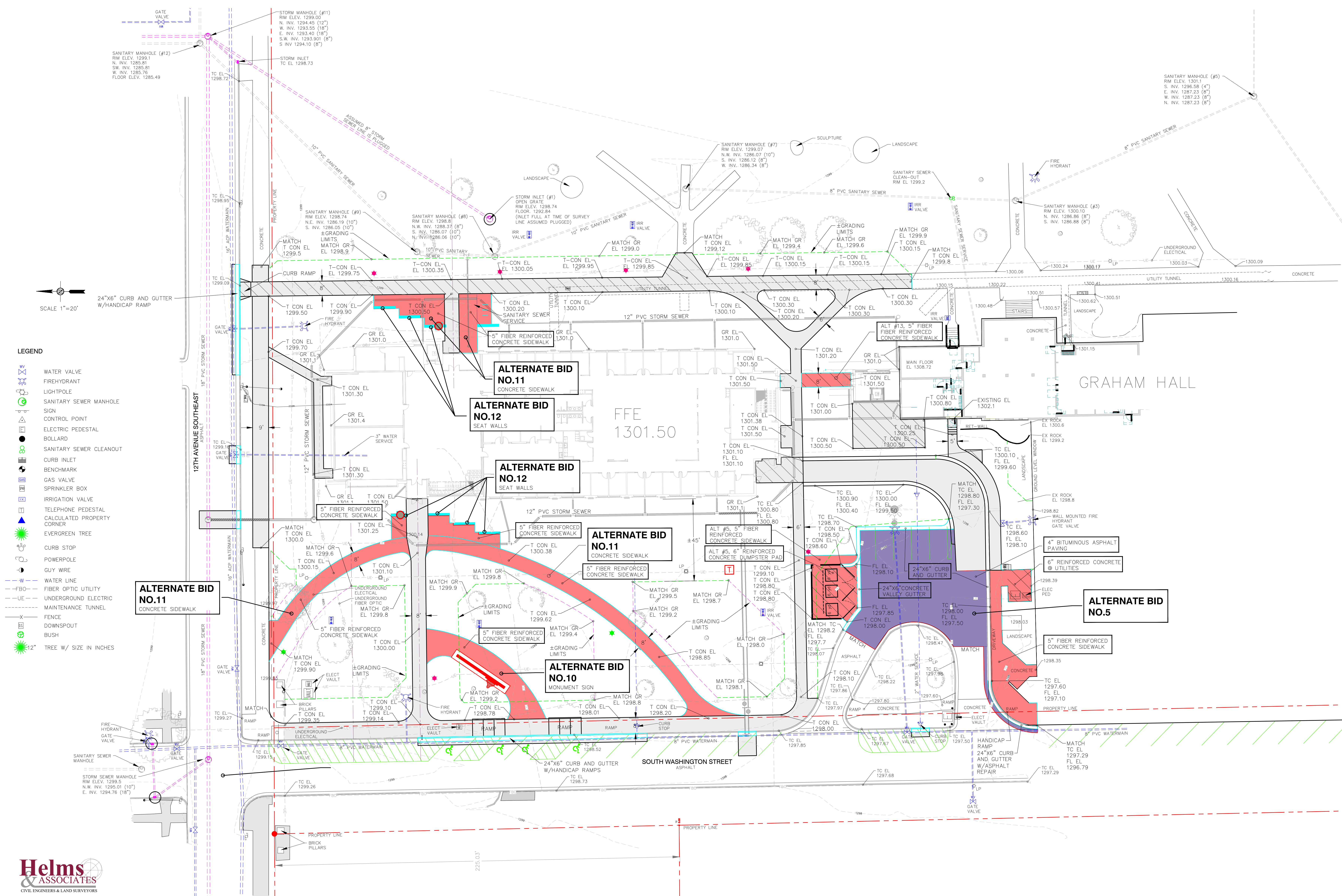
Seal  
 Issue  
 100% Construction Documents  
 Date  
 13 February 2024

**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261  
 Northern State University  
 1300 S Jay St  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

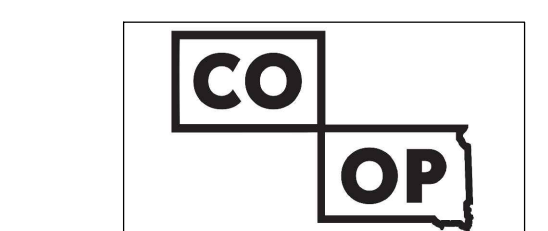
Project Number: 21-281  
 Drawn By: CDH  
 Reviewed By: LAH  
 Approved By: LAH  
 Helms Job #: 8572-01

**BASE BID SITE GRADING PLAN**





- LEGEND**
- WATER VALVE
  - FIREHYDRANT
  - LIGHTPOLE
  - SANITARY SEWER MANHOLE
  - SIGN
  - CONTROL POINT
  - ELECTRIC PEDESTAL
  - BOLLARD
  - SANITARY SEWER CLEANOUT
  - CURB INLET
  - BENCHMARK
  - GAS VALVE
  - SPRINKLER BOX
  - IRRIGATION VALVE
  - TELEPHONE PEDESTAL
  - CALCULATED PROPERTY CORNER
  - EVERGREEN TREE
  - CURB STOP
  - POWERPOLE
  - GUY WIRE
  - WATER LINE
  - FIBER OPTIC UTILITY
  - UNDERGROUND ELECTRIC
  - MAINTENANCE TUNNEL
  - FENCE
  - DOWNSPOUT
  - BUSH
  - 12" TREE W/ SIZE IN INCHES



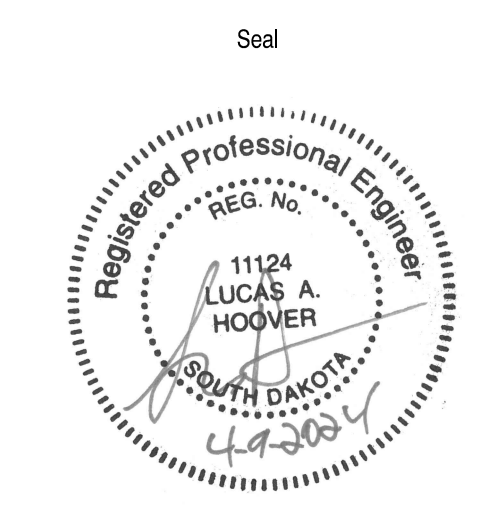
**Architect of Record**  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-291-4932  
 E-mail: tom@co-oparch.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-291-1212  
 E-mail: lucas@helmsengineering.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57109  
 Telephone: 605-225-1212  
 E-mail: jchristensen@riseincorp.com

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-225-1349  
 E-mail: thomas.j.helms@imegcorp.com

REVISION  
 ADD ALTERNATES 20231219  
 REDLINE CHANGES



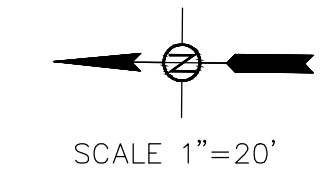
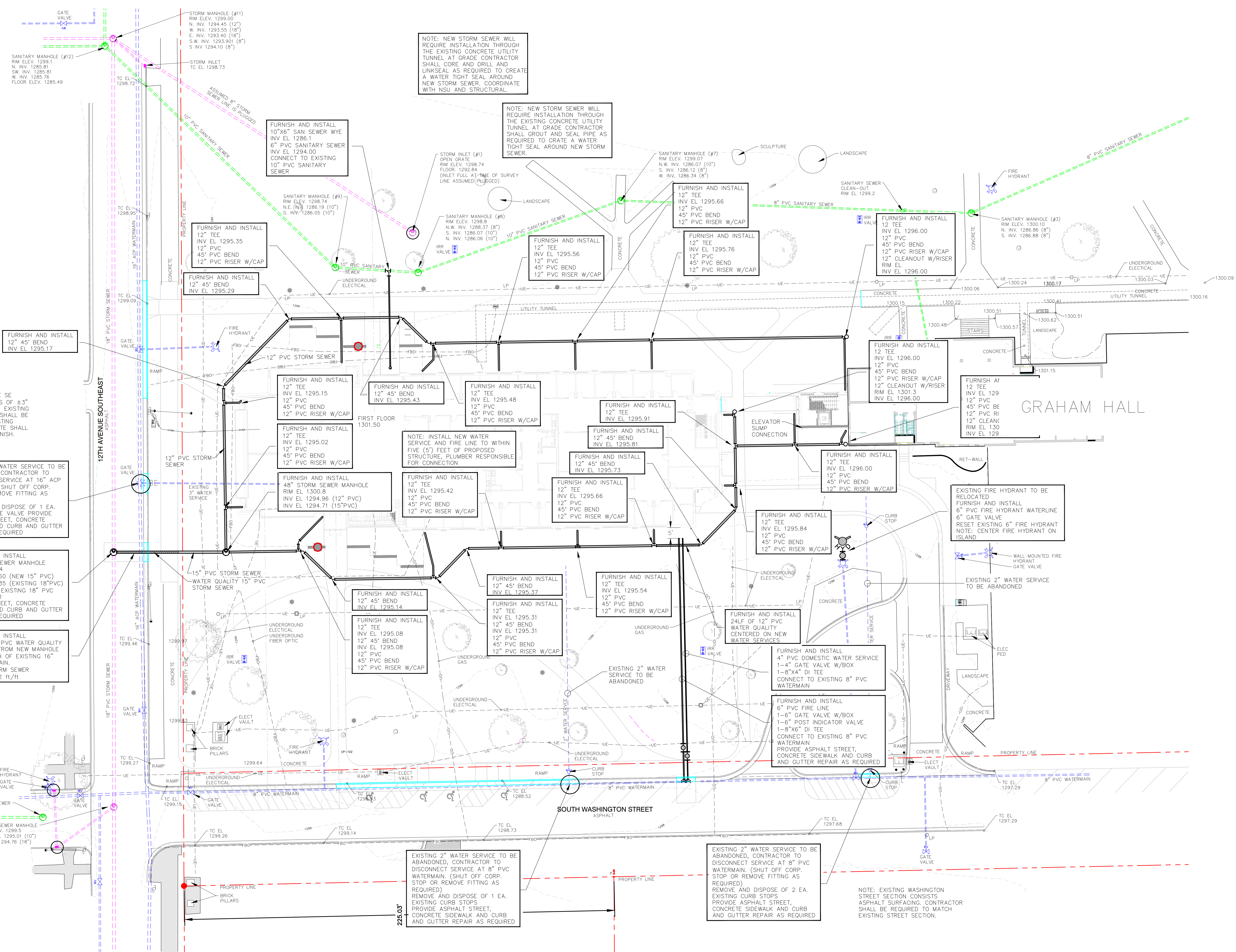
Seal  
 Issue  
 100% Construction Documents  
 Date  
 13 February 2024

**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261  
 Northern State University  
 1300 S Jay St  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

Project Number: 21-281  
 Drawn By: CDH  
 Reviewed By: LAH  
 Approved By: LAH  
 Helms Job #: 8572-01

**ALTERNATE SITE GRADING PLAN**  
**C-103**





- LEGEND**
- WATER VALVE
  - FIREHYDRANT
  - LIGHTPOLE
  - SANITARY SEWER MANHOLE
  - SIGN
  - CONTROL POINT
  - ELECTRIC PEDESTAL
  - BOLLARD
  - SANITARY SEWER CLEANOUT
  - CURB INLET
  - BENCHMARK
  - GAS VALVE
  - SPRINKLER BOX
  - IRRIGATION VALVE
  - TELEPHONE PEDESTAL
  - CALCULATED PROPERTY CORNER
  - EVERGREEN TREE
  - CURB STOP
  - POWERPOLE
  - GUY WIRE
  - WATER LINE
  - FIBER OPTIC UTILITY
  - UNDERGROUND ELECTRIC
  - MAINTENANCE TUNNEL
  - FENCE
  - DOWNSPOUT
  - BUSH
  - 12" TREE W/ SIZE IN INCHES



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-229-4932  
E-mail: tom@co-oparch.com

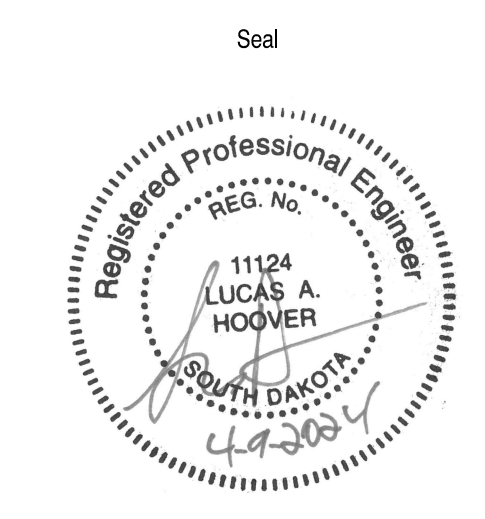
**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-229-1212  
E-mail: lucas@helmsandassociates.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57105  
Telephone: 605-229-1210  
E-mail: jchrestensen@riseincorp.com

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-229-1349  
E-mail: thomas.j.heinz@imegcorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-229-1244  
E-mail: travis@secong.biz

REVISION  
ADD ALTERNATES 20231219  
REDLINE CHANGES



Issue  
100% Construction Documents  
13 February 2024

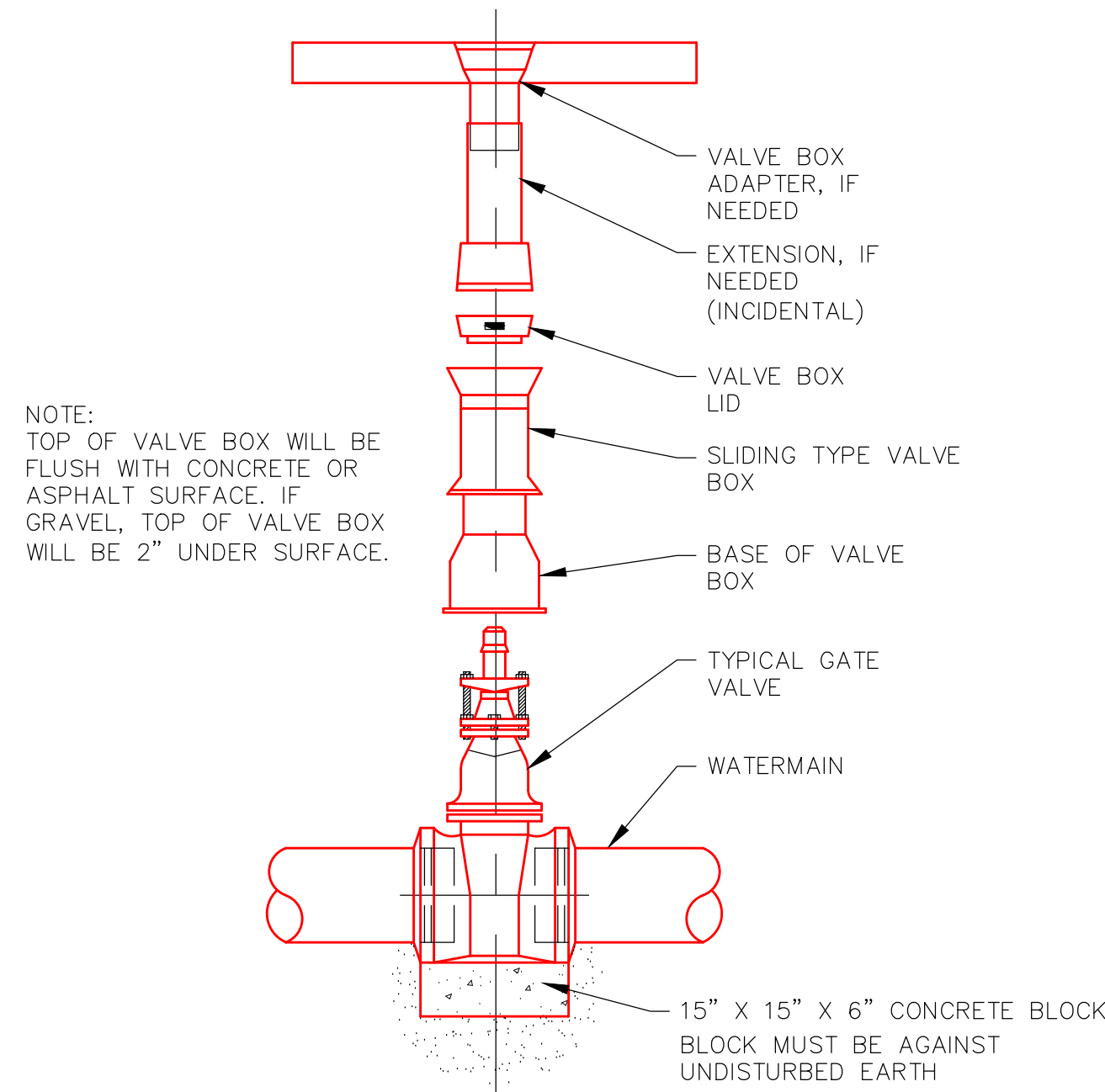
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1300 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-281  
Drawn By: CDH  
Reviewed By: LAH  
Approved By: LAH  
Helms Job #: 8572-01

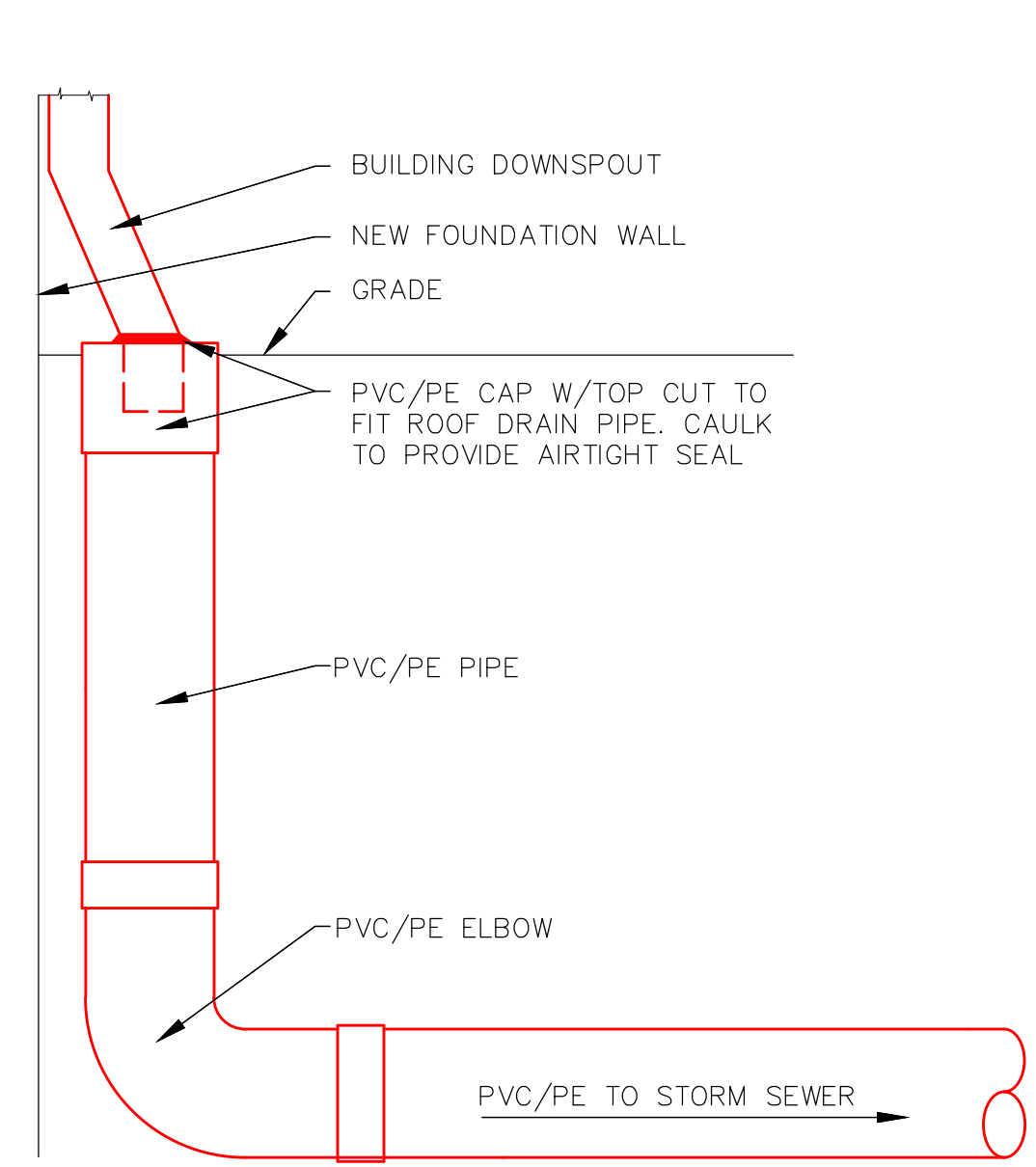
**SITE UTILITY PLAN**

**C-104**

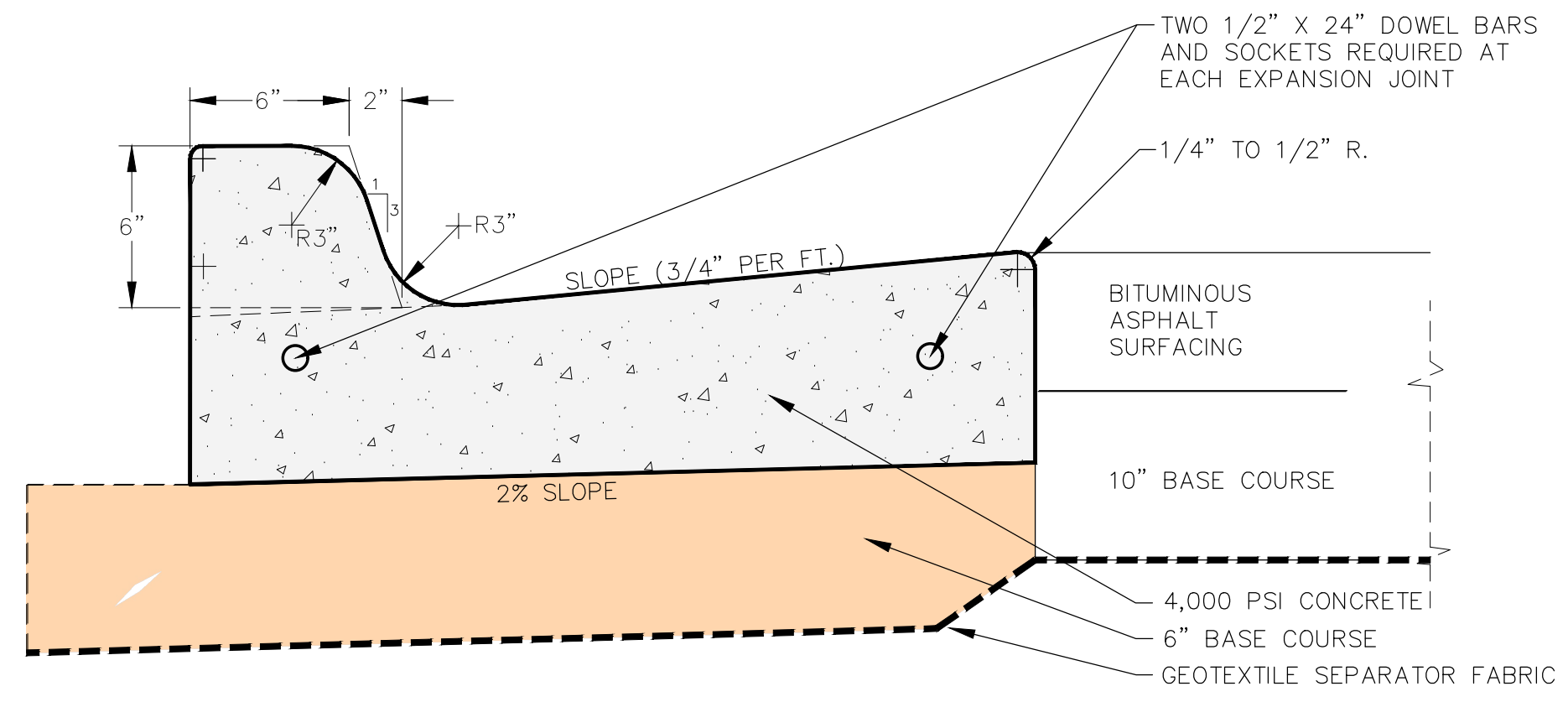




**TYPICAL GATE VALVE DETAIL**  
NO SCALE

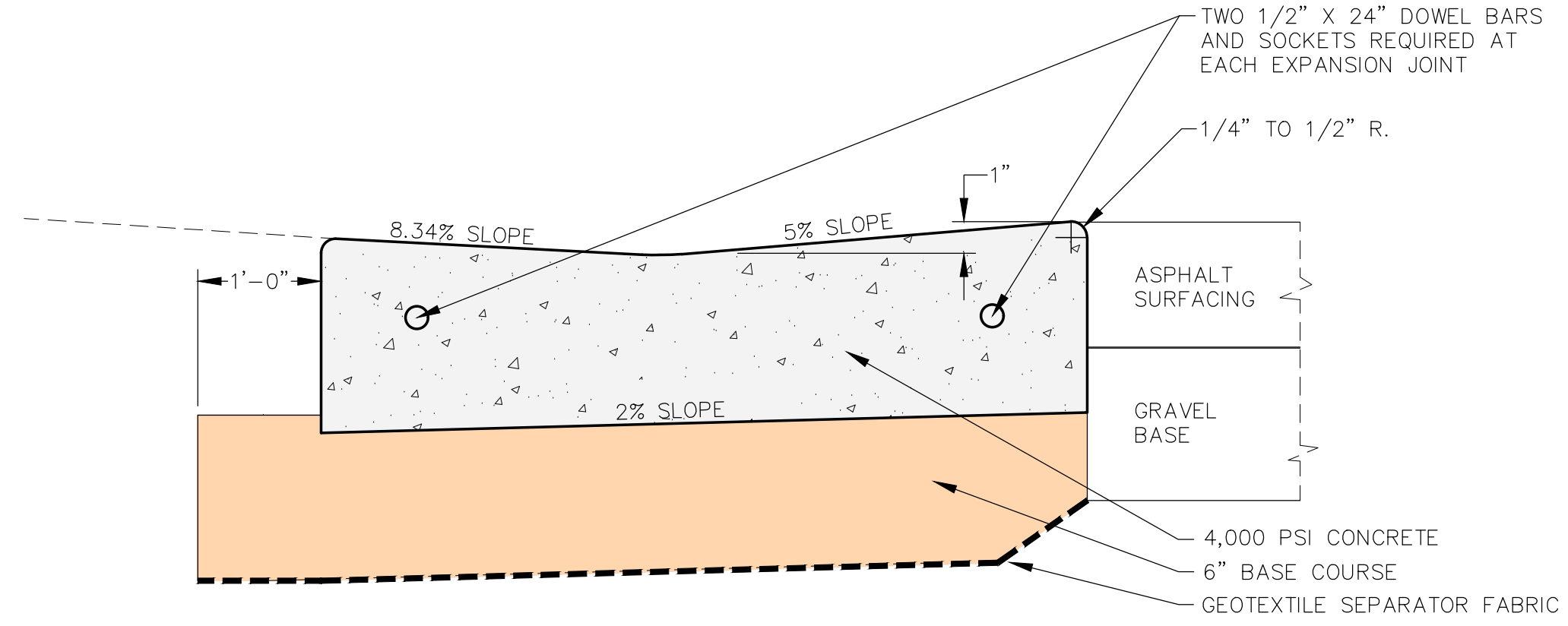


**TYPICAL ROOF DRAIN CONNECTION DETAIL**  
NO SCALE



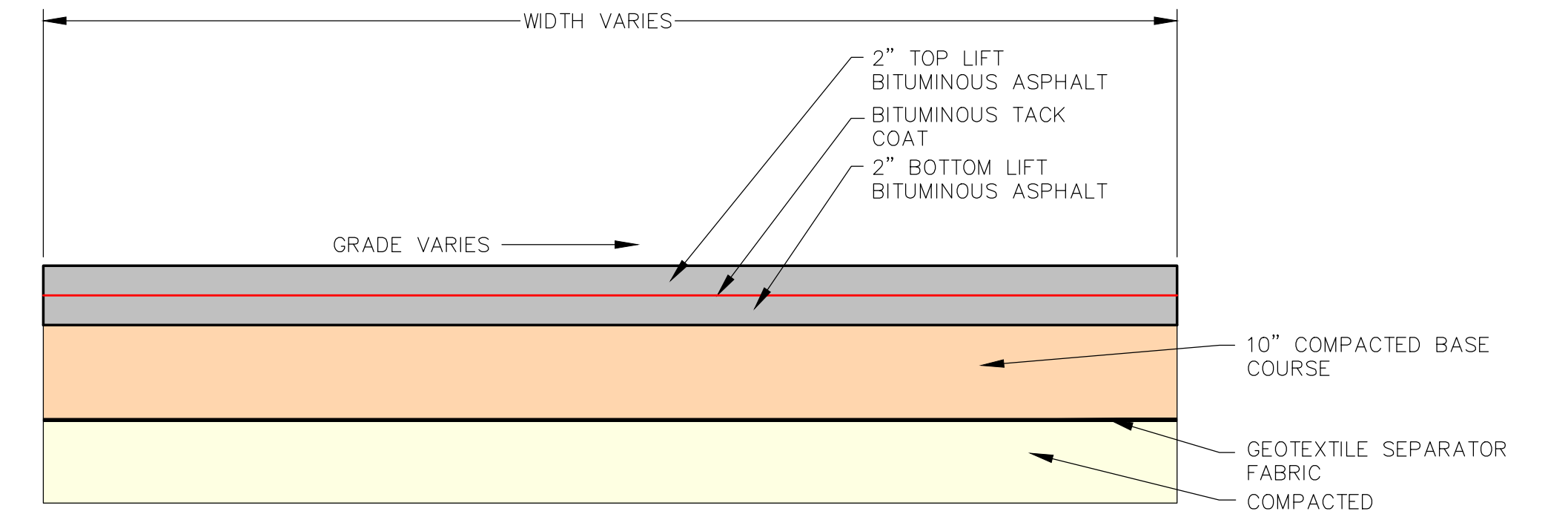
1/2" PREFORMED EXPANSION JOINT FILLERS SHALL BE PLACED TRANSVERSALLY IN THE CURB AND GUTTER AS FOLLOWS:  
 AT EACH JUNCTION OF RADIUS RETURN CURB AND GUTTER WHICH IS PARALLEL TO THE PROJECT CENTER LINE.  
 AT EACH JUNCTION WITH EXISTING CONCRETE CURB OR CONCRETE CURB AND GUTTER.  
 AT EACH JUNCTION WITH EXISTING CONCRETE SIDEWALK, TO THE DEPTH OF THE SIDEWALK. 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED LONGITUDINALLY ALONG THE BACK FACE OF THE CURB TO THE DEPTH OF THE CONCRETE SIDEWALK, WHERE SUCH BACK FACE OF CURB IS ADJACENT TO AN EXISTING CONCRETE SIDEWALK.  
 WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10' INTERVALS EXCEPT WHEN CURB AND GUTTER IS TO BE CONSTRUCTED ADJACENT TO PCC PAVEMENT. THEN THE JOINTS SHALL COINCIDE WITH THE PCC PAVEMENT'S TRANSVERSE JOINTS. THE JOINTS SHALL BE CONSTRUCTED TO A DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE THE FREE MOVEMENT OF CONCRETE AT THE JOINT.

**CONCRETE CURB AND GUTTER DETAIL**  
NO SCALE

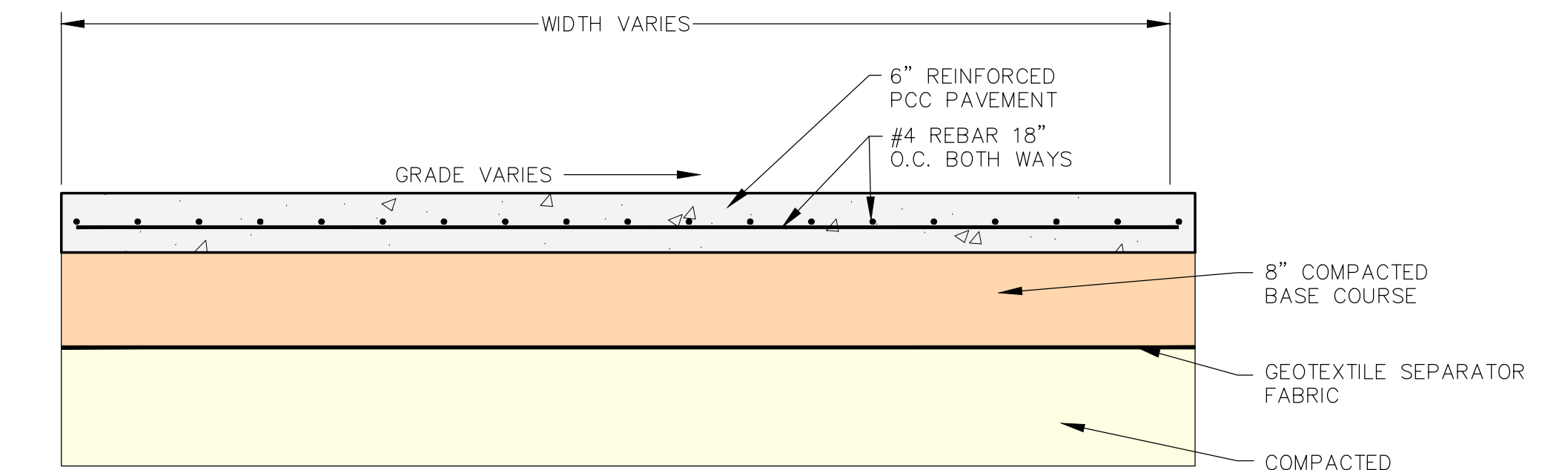


1/2" PREFORMED EXPANSION JOINT FILLERS SHALL BE PLACED TRANSVERSALLY IN THE CURB AND GUTTER AS FOLLOWS:  
 AT EACH JUNCTION OF RADIUS RETURN CURB AND GUTTER WHICH IS PARALLEL TO THE PROJECT CENTER LINE.  
 AT EACH JUNCTION WITH EXISTING CONCRETE CURB OR CONCRETE CURB AND GUTTER.  
 AT EACH JUNCTION WITH EXISTING CONCRETE SIDEWALK, TO THE DEPTH OF THE SIDEWALK. 1/2" PREFORMED EXPANSION JOINT FILLER SHALL BE PLACED LONGITUDINALLY ALONG THE BACK FACE OF THE CURB TO THE DEPTH OF THE CONCRETE SIDEWALK, WHERE SUCH BACK FACE OF CURB IS ADJACENT TO AN EXISTING CONCRETE SIDEWALK.  
 WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 10' INTERVALS EXCEPT WHEN CURB AND GUTTER IS TO BE CONSTRUCTED ADJACENT TO PCC PAVEMENT. THEN THE JOINTS SHALL COINCIDE WITH THE PCC PAVEMENT'S TRANSVERSE JOINTS. THE JOINTS SHALL BE CONSTRUCTED TO A DEPTH OF ONE INCH BY SCORING WITH A TOOL WHICH WILL LEAVE THE CORNERS ROUNDED AND INSURE THE FREE MOVEMENT OF CONCRETE AT THE JOINT.

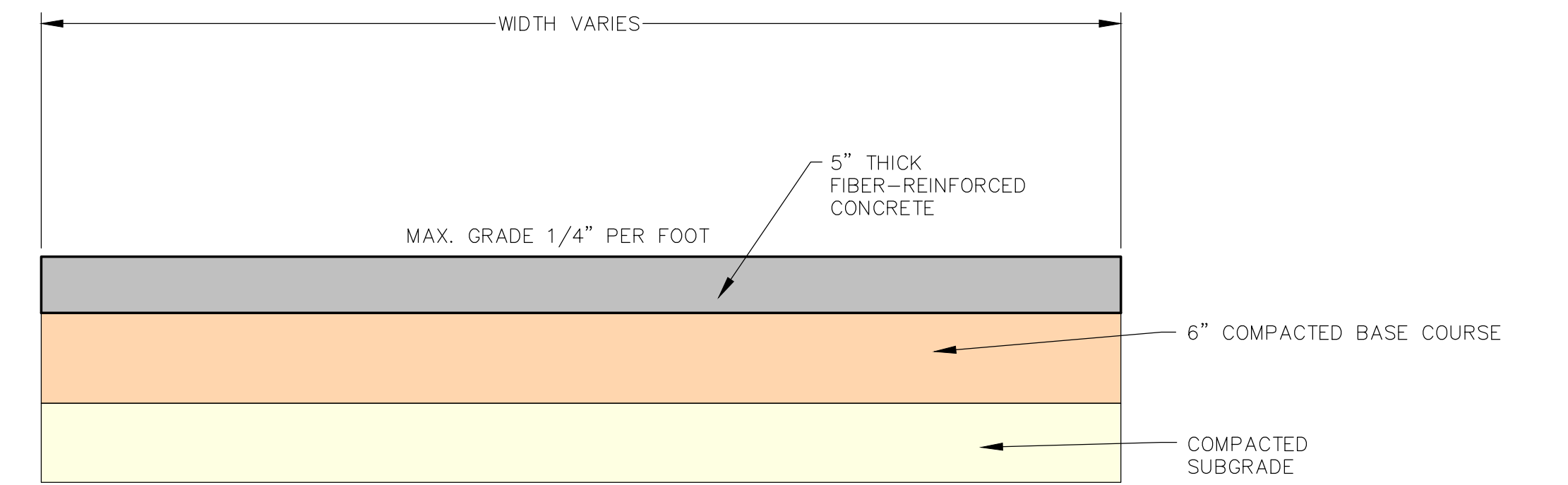
**DRIVEWAY CONCRETE CURB AND GUTTER DETAIL**  
NO SCALE



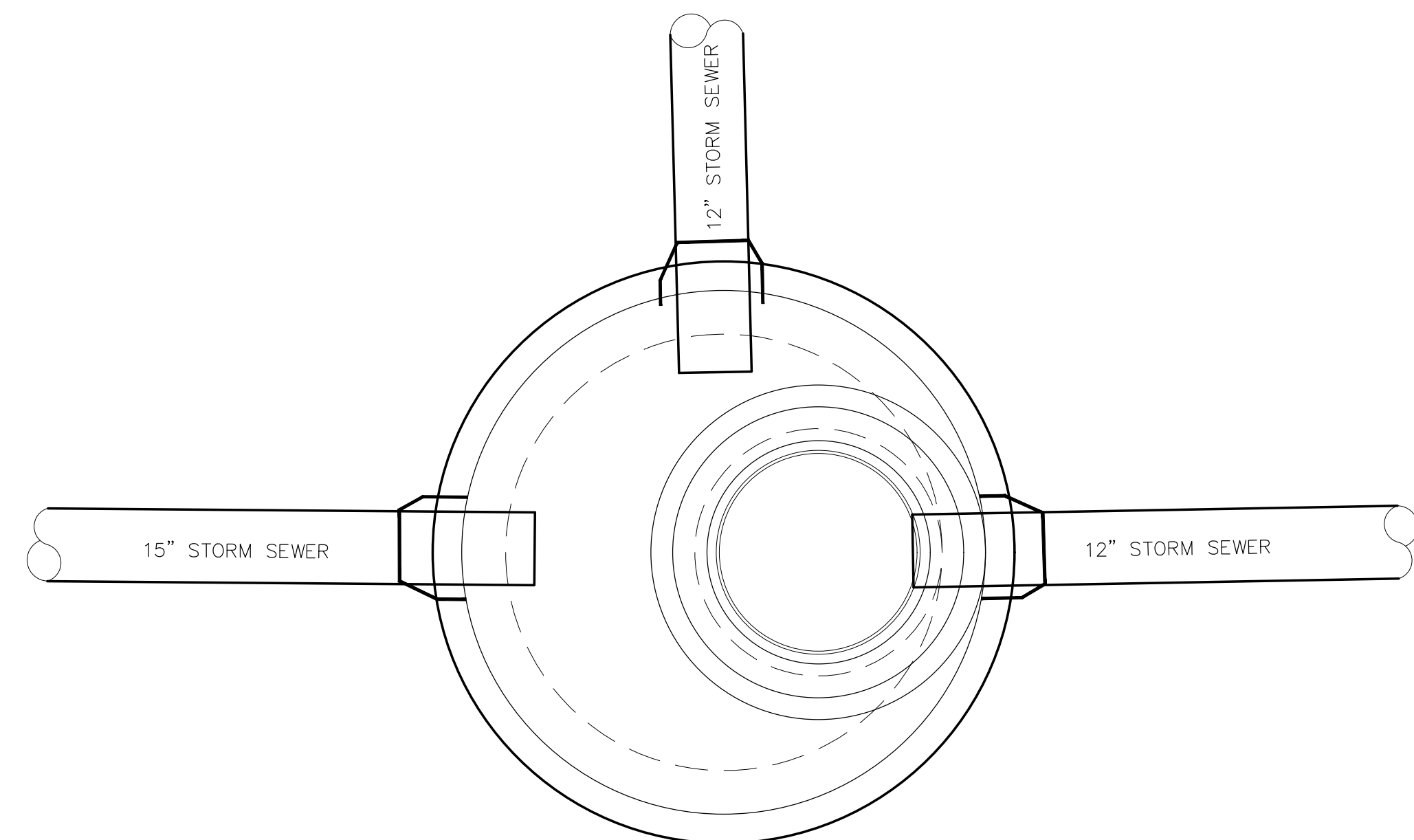
**BITUMINOUS ASPHALT PAVING DETAIL**  
NO SCALE



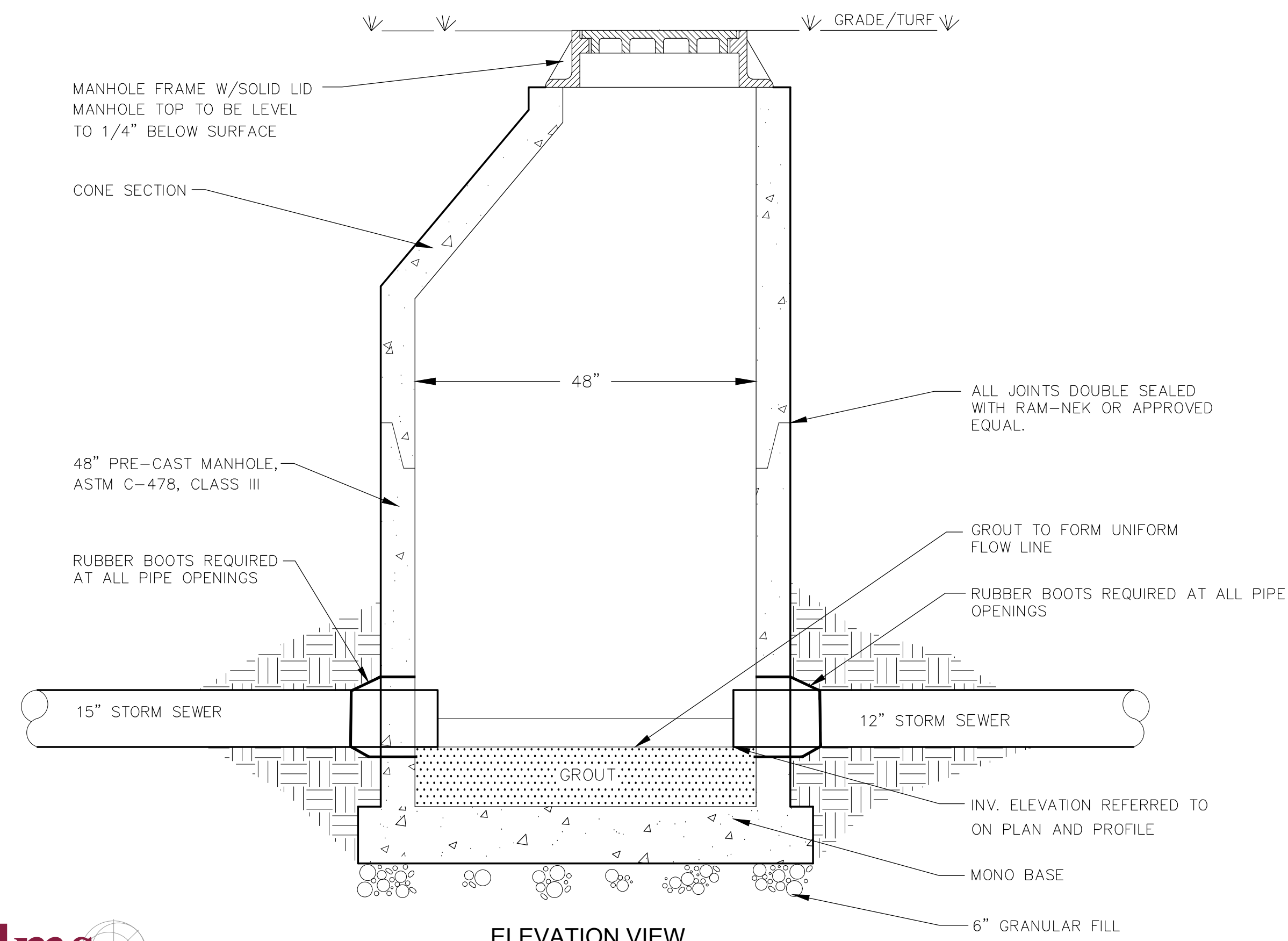
**REINFORCED CONCRETE DETAIL**  
NO SCALE



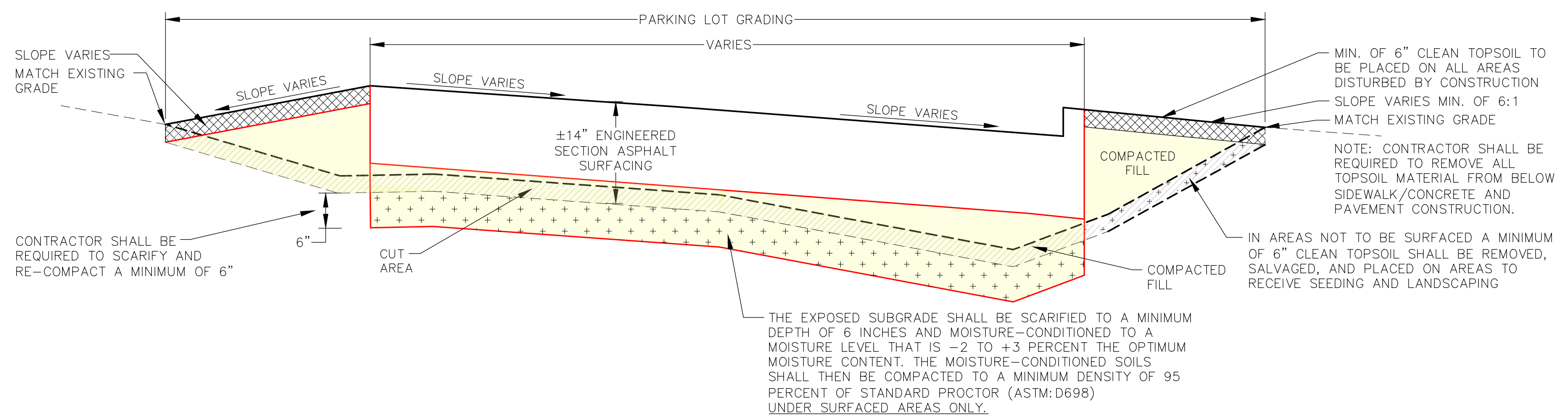
**CONCRETE SIDEWALK DETAIL**  
NO SCALE



**PLAN VIEW**



**ELEVATION VIEW**  
**48" STORM SEWER MANHOLE DETAIL**  
NO SCALE



**SURFACING GRADING SECTION**  
NO SCALE



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-224-4932  
E-mail: tom@co-oparch.com

**Civil Engineer**  
Helm & Associates  
416 Production Street  
Sioux Falls, SD 57104  
Telephone: 605-224-1212  
E-mail: lucas@helmsengineering.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-224-1344  
E-mail: jchrstensen@riseincorp.com

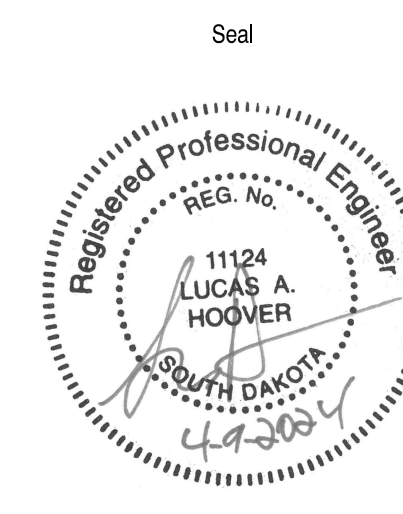
**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.j.heinz@imegcorp.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-224-1205  
E-mail: pudwil@thinkconfluence.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-224-1344  
E-mail: travis@sicong.biz

REVISION  
REVISION  
ADD ALTERNATES 20231219  
REDLINE CHANGES 20240213



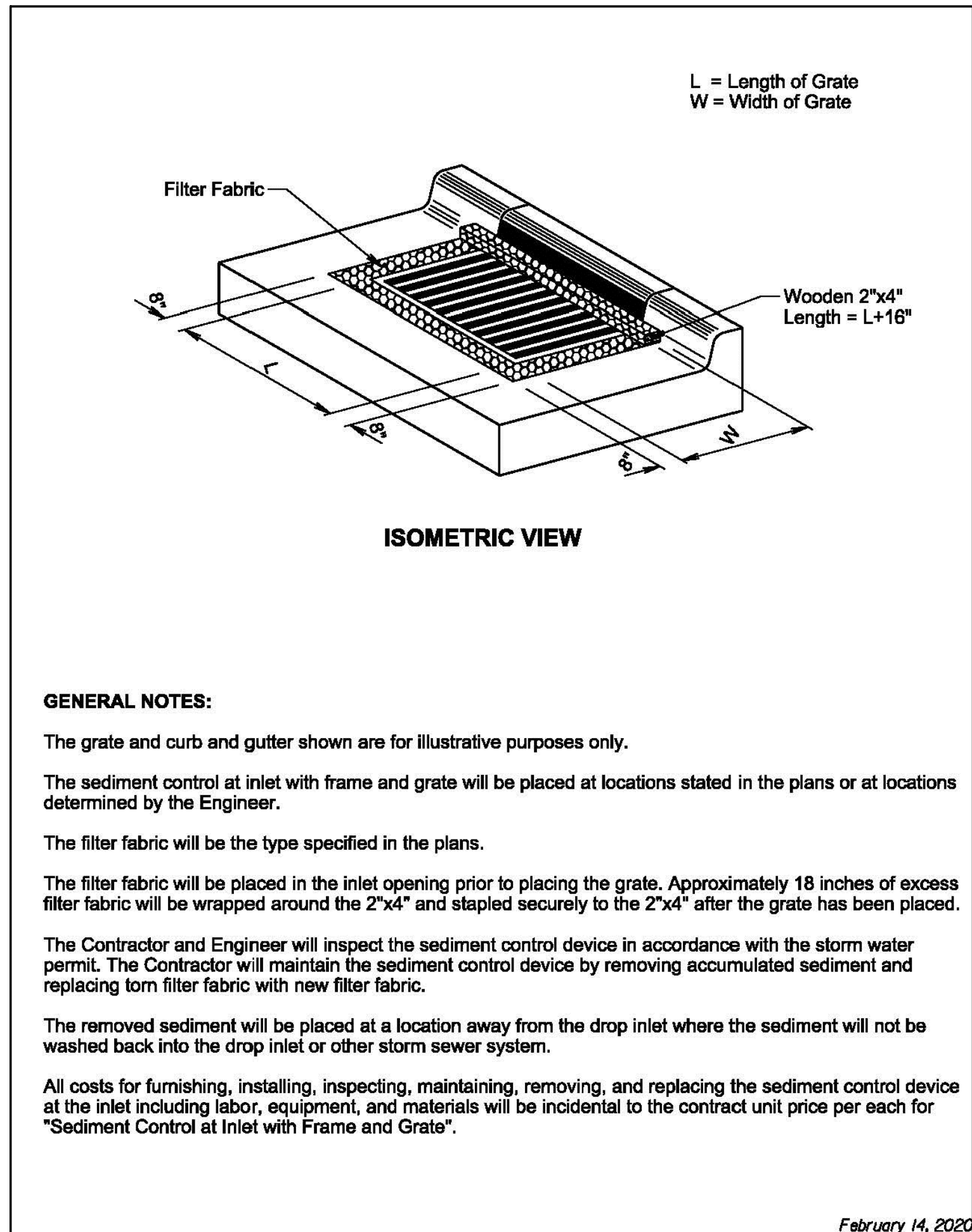
Issue  
100% Construction Documents  
13 FEBRUARY 2012

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1300 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

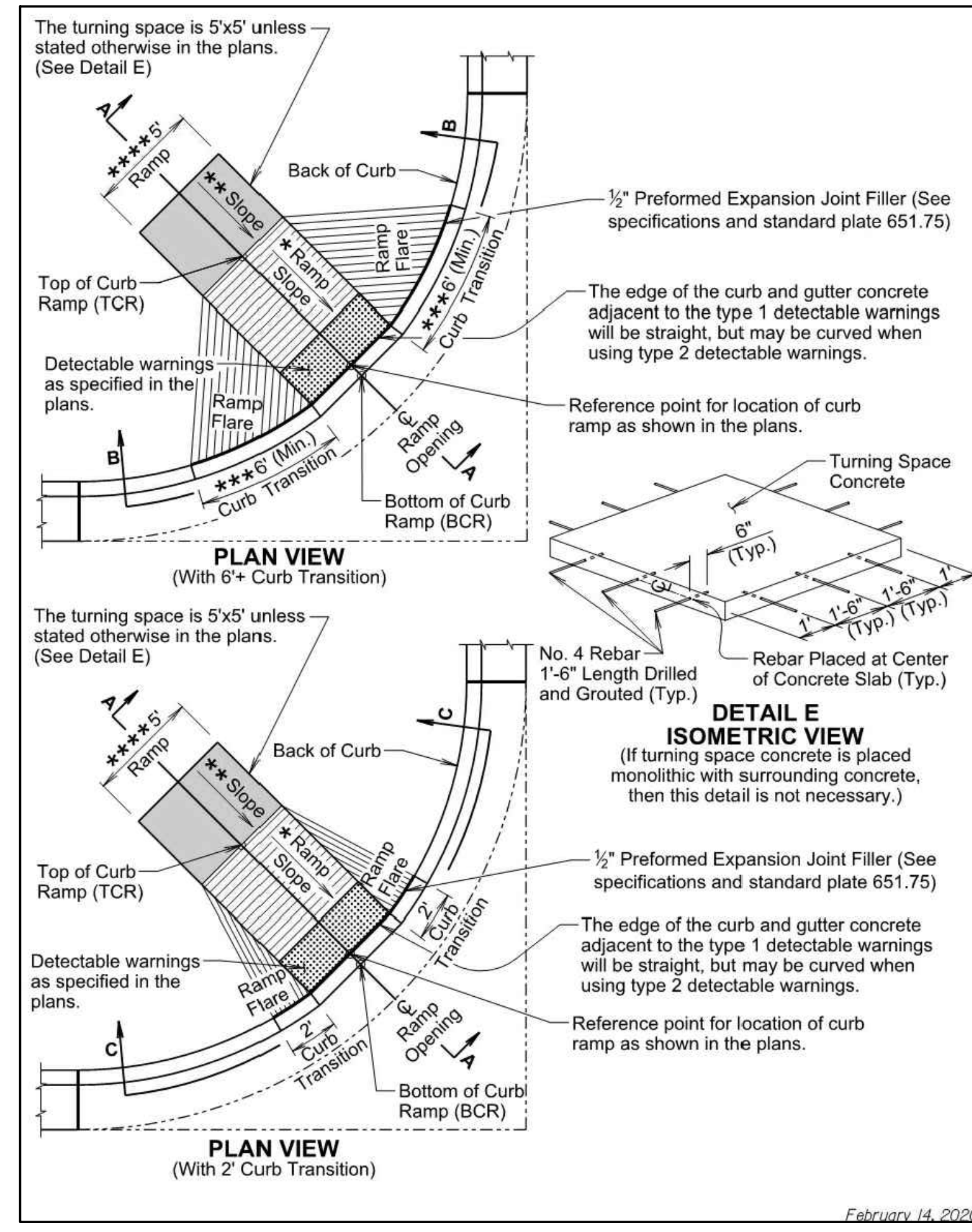
Project Number: 21-261  
Drawn By: CDH  
Reviewed By: LAH  
Approved By: LAH  
Helm Job #: 8572-01

**DETAILS**

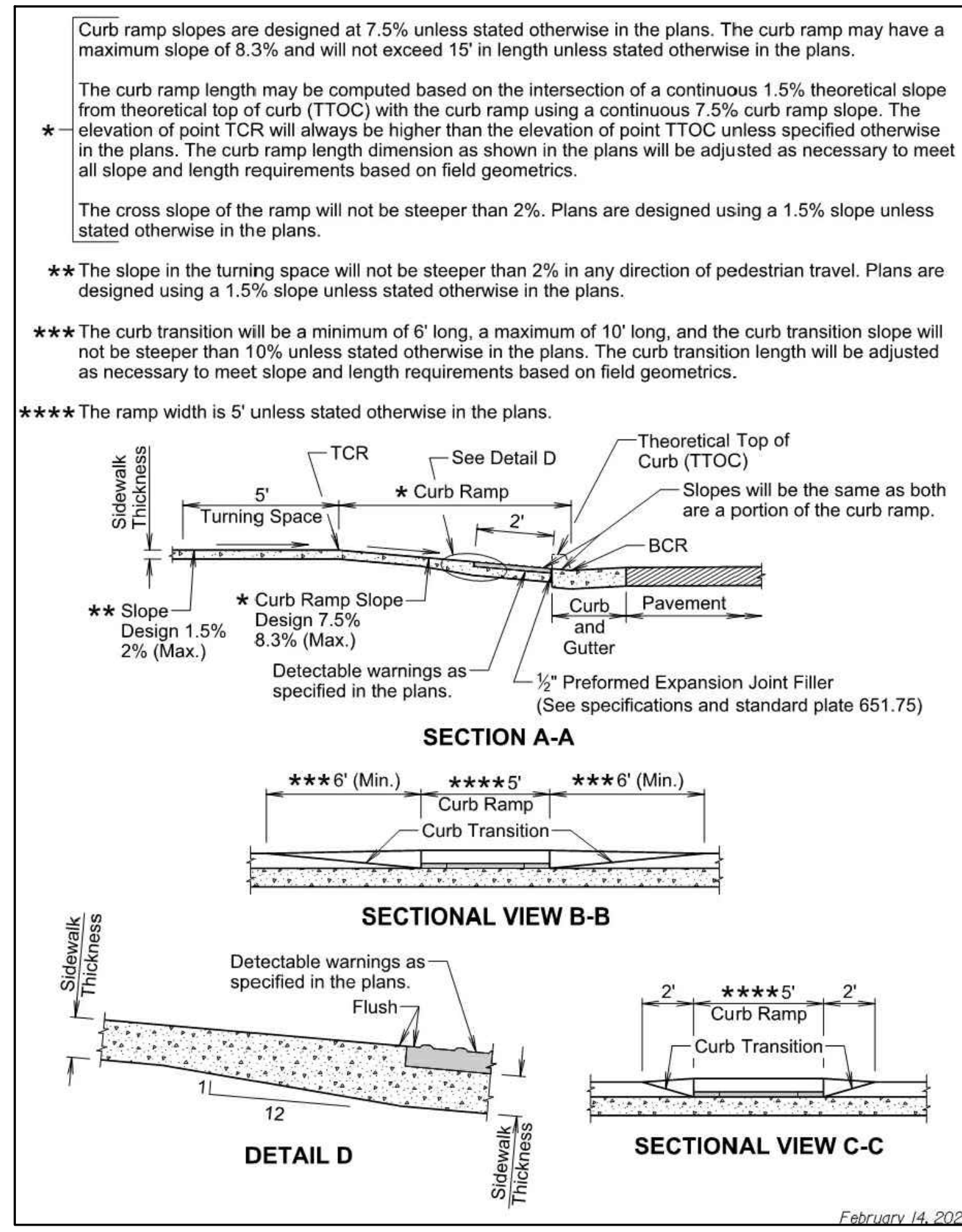




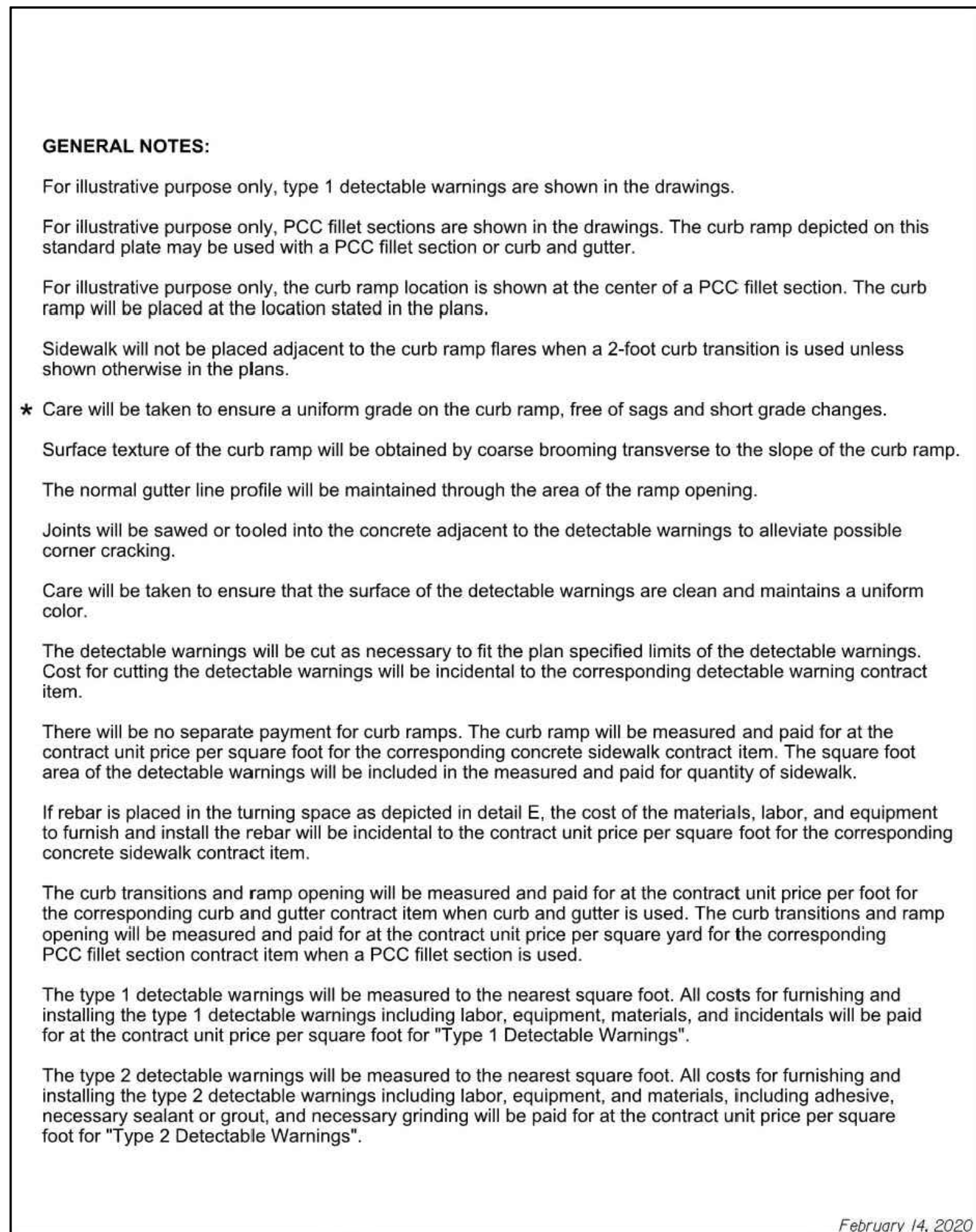
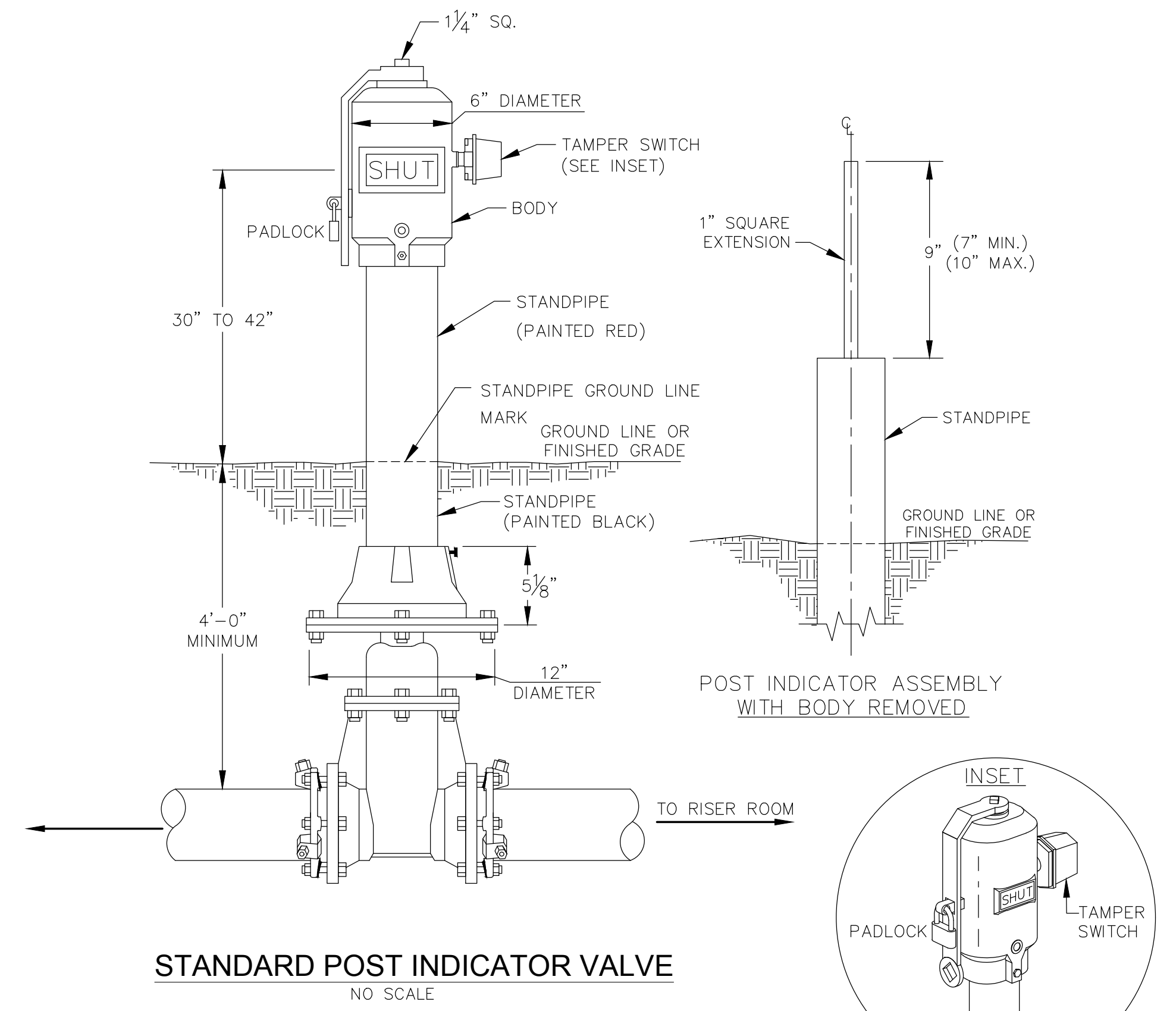
**SEDIMENT CONTROL AT INLETS WITH FRAMES AND GRATES DETAIL**  
NO SCALE



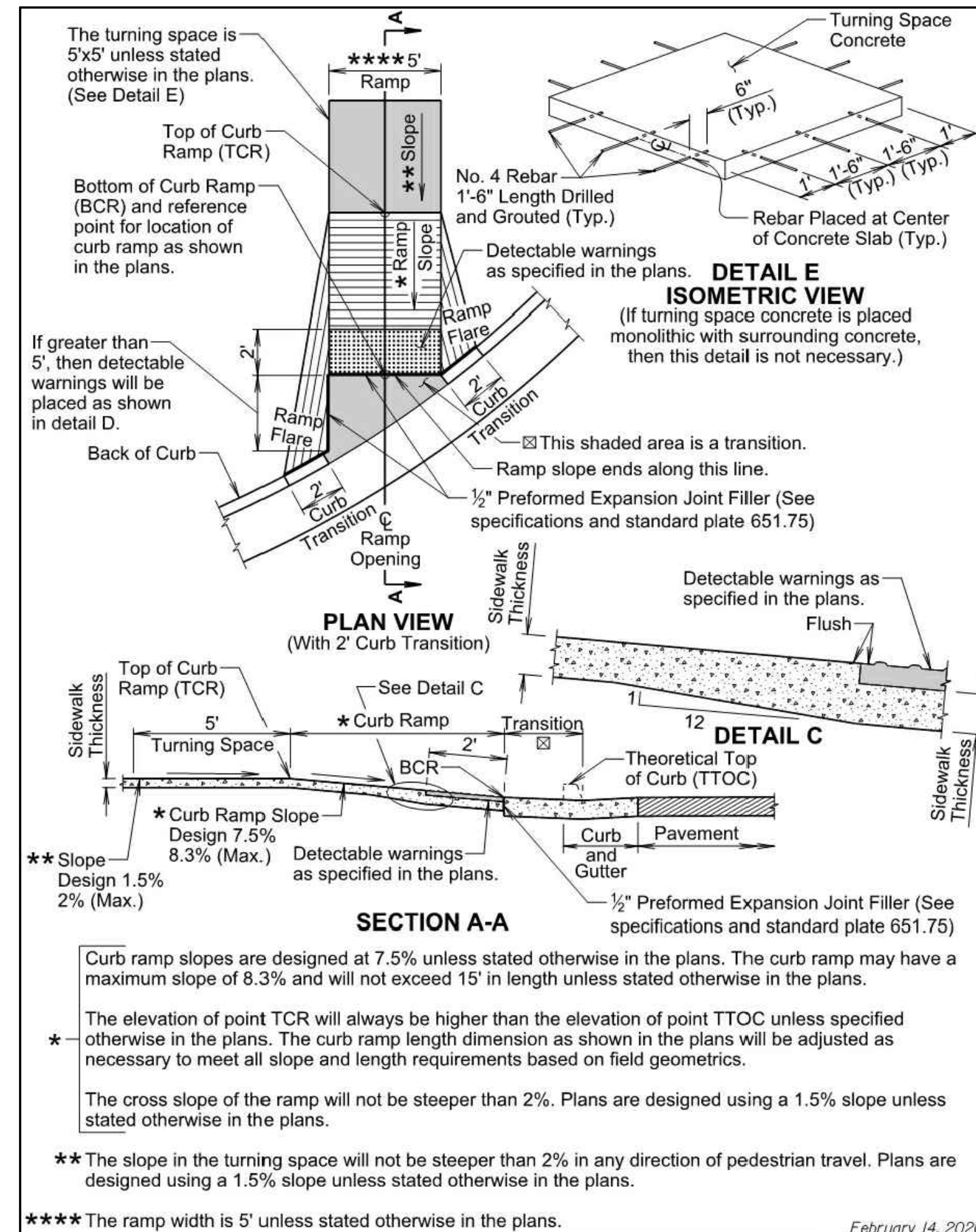
**TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)**  
NO SCALE



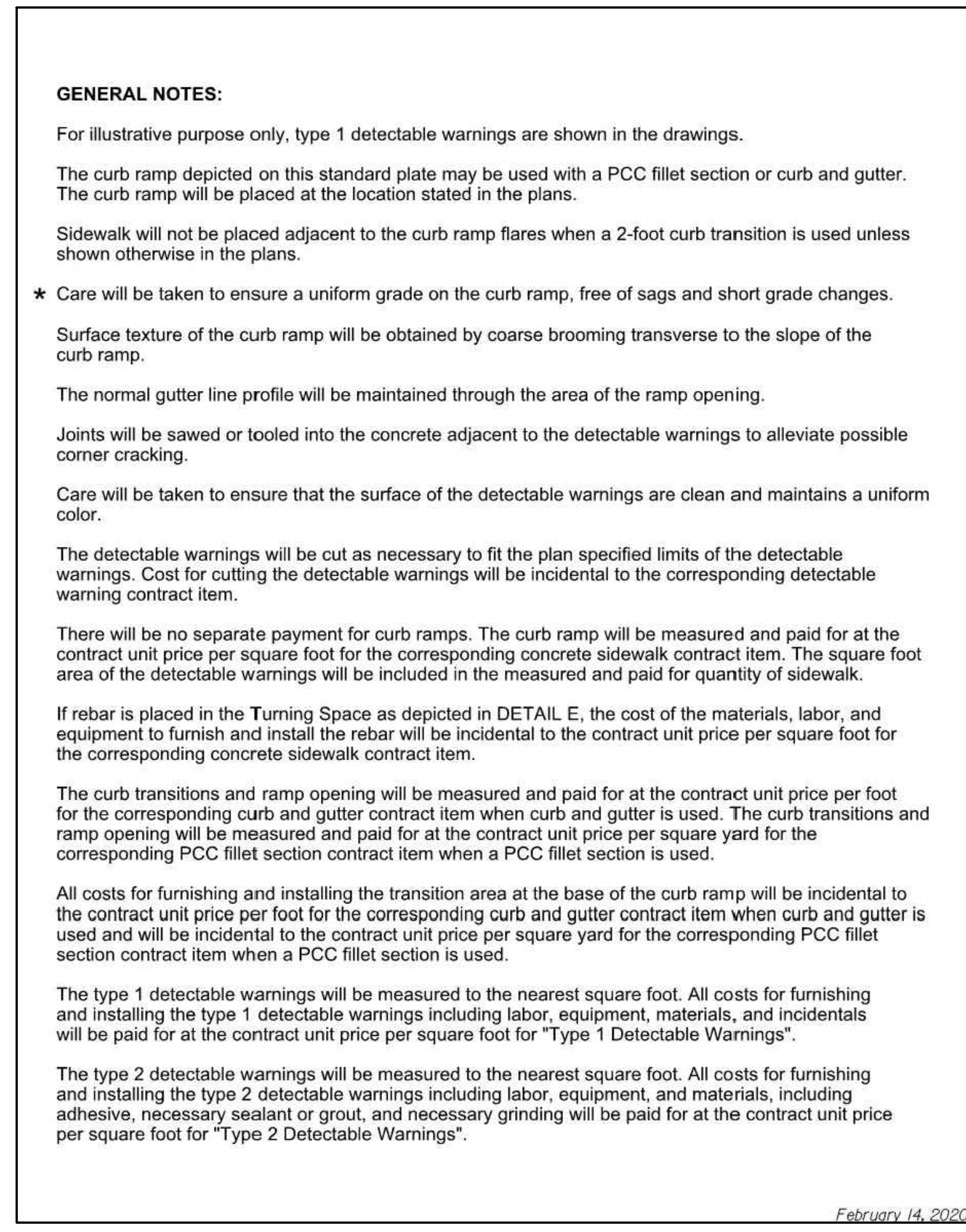
**TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)**  
NO SCALE



**TYPE 1 CURB RAMP (PERPENDICULAR CURB RAMP)**  
NO SCALE



**TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)**  
NO SCALE



**TYPE 2 CURB RAMP (DIRECTIONAL CURB RAMP)**  
NO SCALE



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-294-9432  
E-mail: tom@co-oparch.com

**Civil Engineer**  
Helm & Associates  
1108 S Main Street  
Aberdeen, SD 57401  
Telephone: 605-294-9432  
E-mail: lucash@helmsurveyors.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57108  
Telephone: 605-743-2344  
E-mail: jchristensen@riseincorp.com

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.j.heinz@imegcorp.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchar@amdarchitects.com

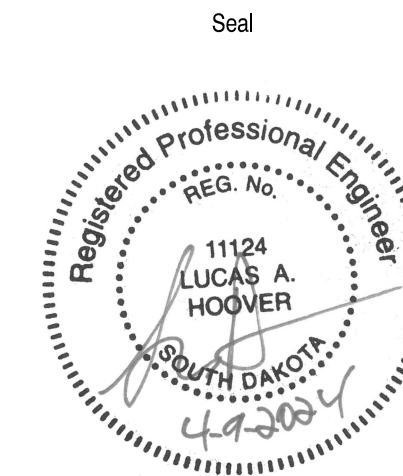
**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-294-1205  
E-mail: pudwil@thinkconfluence.com

**Mech & Plumbing Engineer**

Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: travese@secong.biz

REVISION  
REVISION

ADD ALTERNATES 20231219  
REDLINE CHANGES 20240213



Issue  
100% Construction Documents  
13 FEBRUARY 2012

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1200 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CDH  
Reviewed By: LAH  
Approved By: LAH  
Helm Job #: 8572-01

**DETAILS**







PLANT SCHEDULE - ALTERNATE #10					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT SPACING/REMARKS
DECIDUOUS SHRUBS					
HQ	1	Hydrangea paniculata	QUICKFIRE HYDRANGEA	#2	CONT.
SG	24	Spiraea betulifolia 'Tor Gold'	TOR GOLD BIRCHLEAF SPIREA	#2	CONT. 3'-6" O.C.
PERENNIALS					
HC	13	Hemerocallis 'Chicago Apache'	CHICAGO APACHE DAYLILY	#1	CONT. 2'-0" O.C.
ORNAMENTAL GRASSES					
MP	32	Miscanthus purpuracens	FLAME GRASS	#1	CONT. 2'-6" O.C.

PLANT SCHEDULE - BASE BID					
KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT SPACING/REMARKS
CANOPY TREES					
GB	5	Ginkgo biloba 'Autumn Gold'	AUTUMN GOLD GINKGO	2-1/2" CAL	B&B
GD	3	Gymmodadus dioicus 'Espresso'	ESPRESSO KENTUCKY COFFEETREE	2-1/2" CAL	B&B
QE	1	Quercus ellipsoidalis	NORTHERN PIN OAK	2-1/2" CAL	B&B
QW	4	Quercus x warei 'Long'	REGAL PRINCE OAK	2-1/2" CAL	B&B
EVERGREEN TREES					
JS	2	Juniperus scopulorum 'Skyrocket'	SKYROCKET JUNIPER	#20	CONT. 4'-6" O.C.
DECIDUOUS SHRUBS					
HJ	4	Hydrangea paniculata 'Jane'	LITTLE LIME HYDRANGEA	#2	CONT. 4'-6" O.C.
HL	4	Hydrangea paniculata 'Little Quickfire'	LITTLE QUICKFIRE HYDRANGEA	#2	CONT. 4'-6" O.C.
SB	39	Spiraea betulifolia 'Tor'	TOR BIRCHLEAF SPIREA	#2	CONT. 3'-6" O.C.
SG	19	Spiraea betulifolia 'Tor Gold'	TOR GOLD BIRCHLEAF SPIREA	#2	CONT. 3'-6" O.C.
VM	5	Viburnum lantana 'Mohican'	MOHICAN VIBURNUM	#2	CONT. 5'-0" O.C.
EVERGREEN SHRUBS					
JH	4	Juniperus horizontalis 'Hughes'	HUGHES JUNIPER	#2	CONT. 5'-0" O.C.
TX	6	Taxus x media 'Taunton'	TAUNTON SPREADING YEW	#2	CONT. 5'-6" O.C.
PERENNIALS					
HC	132	Hemerocallis 'Chicago Apache'	CHICAGO APACHE DAYLILY	#1	CONT. 2'-0" O.C.
HH	16	Hemerocallis 'Hyperion'	HYPERION DAYLILY	#1	CONT. 2'-0" O.C.
HP	7	Hosta 'Patriot'	PATRIOT HOSTA	#1	CONT. 2'-6" O.C.
HS	4	Hosta x 'Sum and Substance'	SUM AND SUBSTANCE HOSTA	#1	CONT. 4'-0" O.C.
ORNAMENTAL GRASSES					
CA	26	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER FEATHER REED GRASS	#1	CONT. 2'-6" O.C.
MP	38	Miscanthus purpuracens	FLAME GRASS	#1	CONT. 2'-6" O.C.

**GENERAL NOTES**

PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE ARCHITECT PRIOR TO PLANTING.

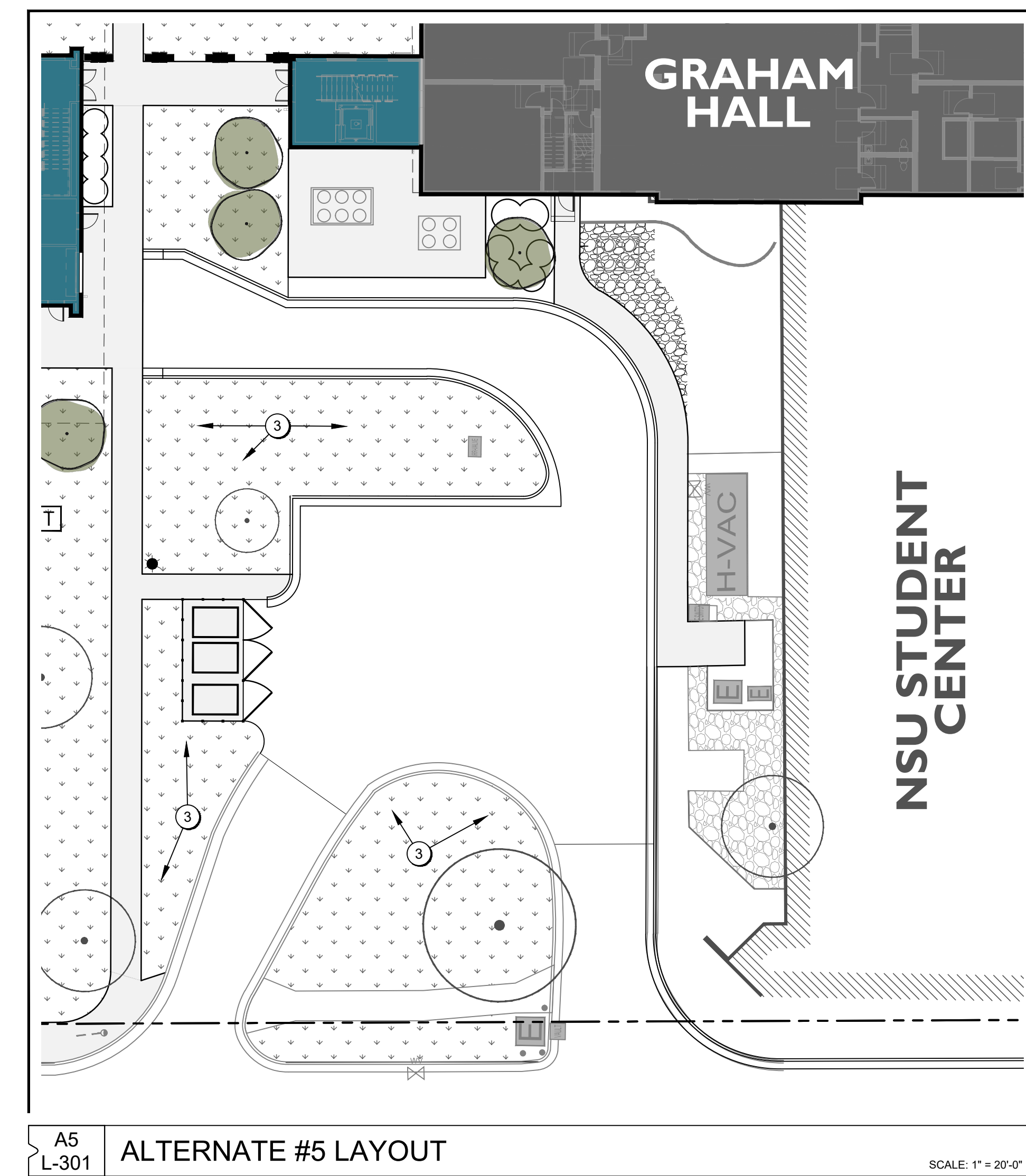
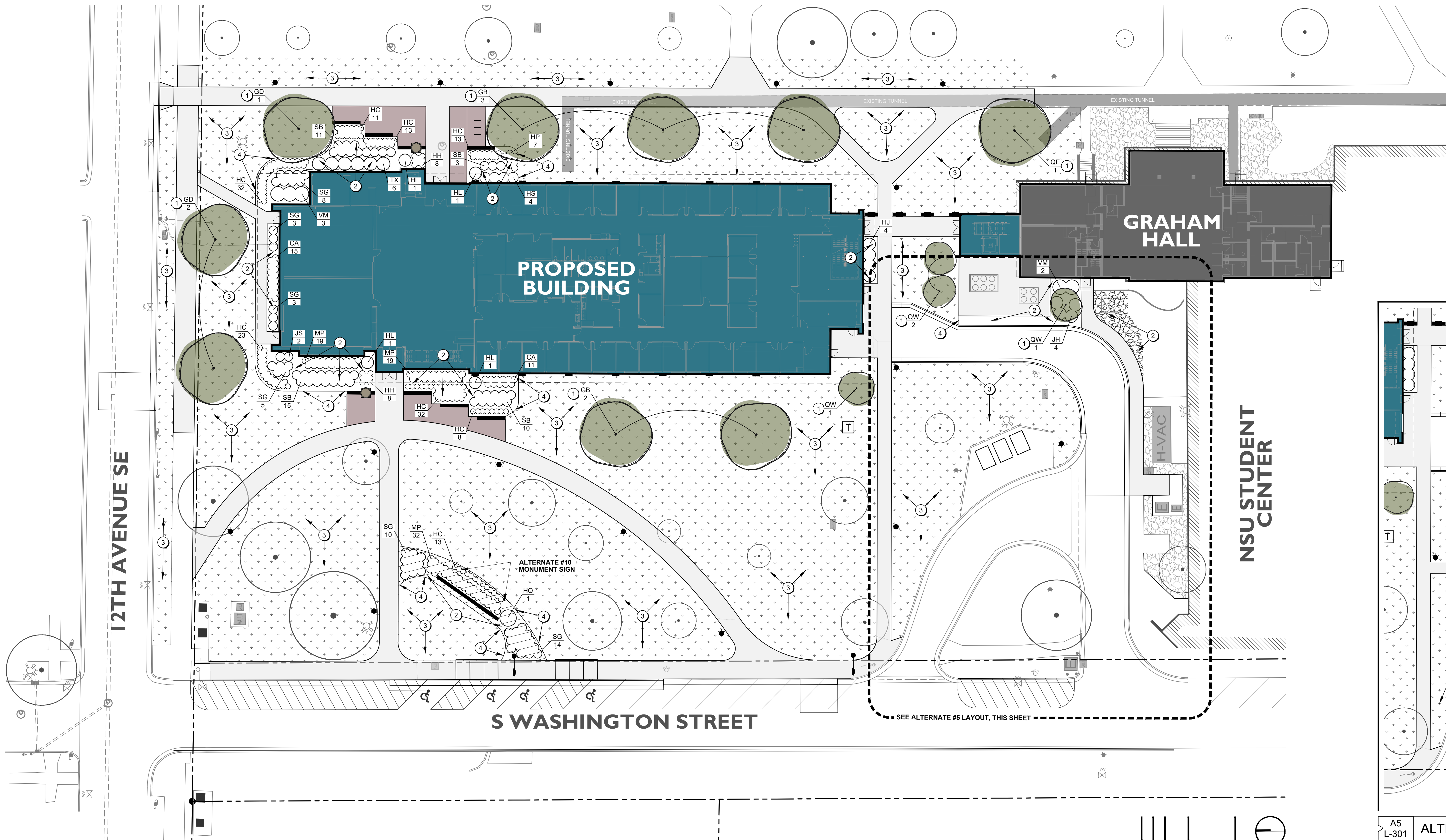
SEED ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS, UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL PLACE SHREDDED WOOD MULCH AROUND ALL TREES.

SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.

**KEYNOTES**

- B&B TREE - TYP. A1/L-502.
- PLANT BED - TYP. PREPARE PLANTING SOILS AND MULCH, AS SPECIFIED. A3/L-502.
- SEEDED TURFGRASS LAWN - TYP. FERTILIZE, FINE GRADE, SEED AND HYDROMULCH, AS SPECIFIED. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR SEEDING ALL AREAS DISTURBED BY CONSTRUCTION.
- LANDSCAPE EDGING. A3/L-502.



**CO-OP**  
**AndersonMasonDale Architects**  
 Architect of Record  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-224-4652  
 E-mail: tom@co-oparch.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-224-1212  
 E-mail: lucash@helmsengineering.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57108  
 Telephone: 605-224-2344  
 E-mail: jchristensen@riseincorp.com

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-226-1349  
 E-mail: thomas.j.heinz@imegcorp.com

**Associate Architect**  
 AndersonMasonDale Architects, P.C.  
 3198 Speer Boulevard  
 Denver, CO 80211  
 Telephone: 303-294-9448  
 FAX: 303-294-0762  
 E-mail: bblanchard@amdarchitects.com

**Landscape Architect**  
 Confluence  
 524 N Main Ave, Suite 201  
 Sioux Falls, SD 57104  
 Telephone: 605-229-1205  
 E-mail: lpudw@thinkconfluence.com

**Mech & Plumbing Engineer**  
 Sichmeller Engineering  
 801 Railroad Ave SE  
 Aberdeen, South Dakota 57401  
 Telephone: 605-226-1344  
 E-mail: traviss@sicong.biz

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION

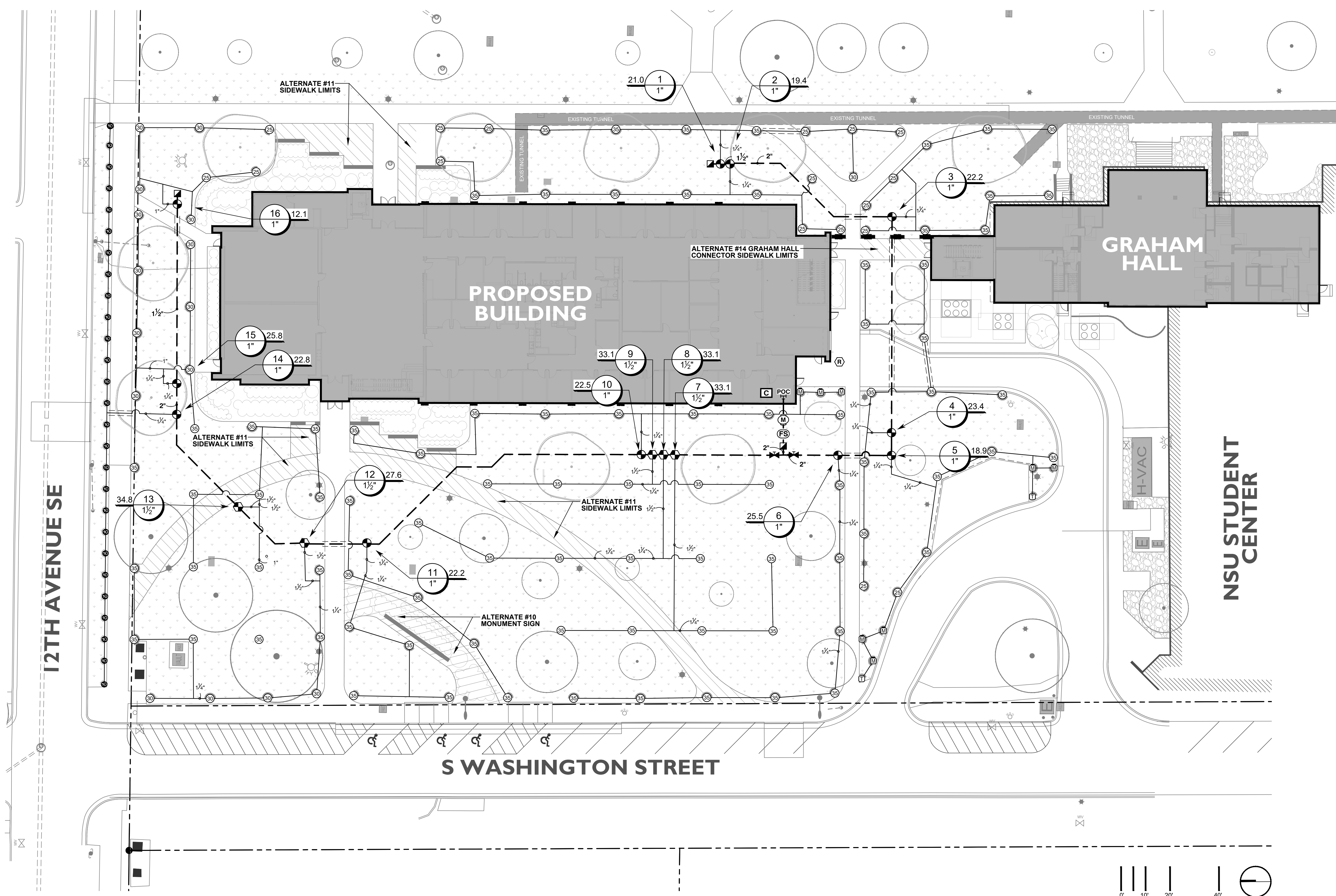
Seal  
 Issue  
 Date  
 100% CONSTRUCTION DOCUMENTS  
 9 APRIL 2024

**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261 AMD / 2160 CO-OP  
 Northern State University  
 1203 S. Jay St.  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

Project Number: 21-261 AMD / 2160 CO-OP  
 Drawn By: EE LP  
 Reviewed By: LP  
 Approved By: LP

**PLANTING PLAN**  
**L-301**





- GENERAL NOTES**
- EXISTING CONDITIONS: EXISTING WATER PRESSURE IS UNKNOWN. DESIGN ANTICIPATES 40 GPM AT 50 PSI DOWNSTREAM OF THE METER AND BACKFLOW. CONTRACTOR TO VERIFY AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
  - COORDINATE WITH LANDSCAPE ARCHITECT TO ADJUST IRRIGATION DESIGN IF BID ALTERNATES ARE ACCEPTED.
  - EXCAVATE WITHIN DRIP LINE OF EXISTING TREES BY HAND AND WITH EXTREME CARE. COORDINATE WITH LANDSCAPE ARCHITECT IF REROUTING OF PIPING IS REQUIRED TO MINIMIZE DISRUPTION OF EXISTING ROOT SYSTEMS.
  - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF UNDERGROUND SPRINKLERS SPECIFICATIONS (328423) PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL PUBLIC AND PRIVATE UTILITIES WHICH LIE WITHIN THE CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
  - PROVIDE AND MAINTAIN WARNING SIGNS, BARRICADES AND CONSTRUCTION FENCING AS REQUIRED BY LOCAL AUTHORITIES.
  - SPRINKLER LOCATIONS ARE TO SCALE. THE CONTRACTOR SHALL FLAG AND APPROVE LOCATIONS WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. PIPE LOCATIONS ARE DIAGRAMMATIC AND IN SOME INSTANCES MAY CONFLICT WITH PAVEMENT OR OTHER CONSTRUCTED FEATURES FOR CLARITY PURPOSES ONLY.
  - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND INSTALLATION OF ALL EQUIPMENT TO PROVIDE A WORKING IRRIGATION SYSTEM FOR THE OWNER. SEE ELECTRICAL AND PLUMBING SHEETS FOR WORK BY OTHERS.
  - CONTRACTOR TO VERIFY PLUMBING EQUIPMENT (BACKFLOW, ETC) USED WILL MEET DEMANDS OF IRRIGATION AS RECOMMENDED BY MANUFACTURER AND ARE WITHIN TOLERANCES OF SPECIFICATIONS. BACKFLOW DEVICES ARE TO BE INSPECTED BY A CERTIFIED TECHNICIAN WHERE REQUIRED. CONTRACTOR TO COORDINATE ALL INSPECTIONS AS REQUIRED BY CODE.
  - IRRIGATION EQUIPMENT QUANTITIES ARE FOR INFORMATION ONLY. VERIFY QUANTITIES. DRAWING TO PREVAIL IF DISCREPANCIES OCCUR.
  - ALL IRRIGATION EQUIPMENT AND PIPING TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS AS WELL AS ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES THAT MAY APPLY.
  - ALL PRODUCT SUBSTITUTION REQUESTS ARE TO BE APPROVED BY ADDENDUM PRIOR TO BID.
  - IRRIGATION SLEEVES SHALL BE SCHEDULE 40 PVC AND INSTALLED BY THE IRRIGATION CONTRACTOR. SLEEVES SHALL BE 2X THE PIPE DIAMETER. COORDINATE INSTALLATION WITH GENERAL CONTRACTOR. IF REQUIRED, DIRECTIONAL BORING OF PIPE SLEEVES SHALL BE INCLUDED AT NO ADDITIONAL COST.
  - INSTALL LATERAL LINES WITH A MINIMUM COVER OF 12" AND MAINLINES WITH A MINIMUM COVER OF 18".
  - ADJUST ALL IRRIGATION HEADS TO PROPER SPRAY DISTRIBUTION. VERIFY NOZZLE INSTALLATION IS PER PLANS.
  - ADJUST IRRIGATION HEADS AND VALVE BOXES TO FINISHED GRADE. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF SETTLING DURING THE WARRANTY PERIOD.
  - IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH THE OWNERS REPRESENTATIVE. WINTERIZATION AND SPRING START UP SERVICES DURING THE FIRST YEAR ARE CONSIDERED PART OF THIS CONTRACT.
  - AS BUILT DRAWINGS ARE INCLUDED IN THE CONSTRUCTION CONTRACT AND SHALL BE PROVIDED AND APPROVED PRIOR TO FINAL PAYMENT.
  - CONTROL WIRE SHALL BE 18 AWG TYPE UF MULTI CONDUCTOR (COLOR CODED). PROVIDE A SPARE WIRE FOR FUTURE USE ALONG THE ENTIRE LENGTH OF THE WIRE RUN. WIRE SPLICES SHALL BE LOCATED AT VALVE BOXES. PROVIDE 24" OF COILED WIRE IN EACH VALVE BOX. ALL CONNECTIONS SHALL BE MADE WITH 3M DBRYV-6 WATERTIGHT WIRE CONNECTORS.
  - PROGRAM CONTROLLER TO RUN UP TO TWO ZONES SIMULTANEOUSLY (UP TO 40 GPM MAXIMUM) TO REDUCE THE WATER WINDOW.
  - WHERE TWO OR MORE 1" ZONE VALVES OCCUR AT ONE LOCATION, GROUP VALVES IN ONE LARGE BOX IN LIEU OF INSTALLING VALVES IN SEPARATE VALVE BOXES.
  - SET VALVES AND VALVE BOXES TO ALIGN WITH ADJACENT SITE FEATURES (SIDEWALKS, CURBS, ETC). WHERE MULTIPLE VALVE BOXES OCCUR IN A GROUP, ALIGN VALVES AND VALVE BOXES TO BE PARALLEL TO THE ADJACENT VALVE(S) IN THE GROUP.

**CO OP**

**AndersonMasonDale Architects**  
 Architect of Record  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-226-4652  
 E-mail: tom@co-oparch.com

**Associate Architect**  
 AndersonMasonDale Architects, P.C.  
 3198 Speer Boulevard  
 Denver, CO 80211  
 Telephone: 303-729-9448  
 FAX: 303-294-0762  
 E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-226-1212  
 E-mail: lucash@helmsengineering.com

**Landscape Architect**  
 Confluence  
 524 N Main Ave, Suite 201  
 Sioux Falls, SD 57104  
 Telephone: 605-229-1205  
 E-mail: lpudw@thinkconfluence.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57108  
 Telephone: 605-226-2344  
 E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
 Schmelzer Engineering  
 801 railroad Ave SE  
 Aberdeen, South Dakota 57401  
 Telephone: 605-226-1349  
 E-mail: traviss@secong.biz

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave, NE  
 Aberdeen, SD 57401  
 Telephone: 605-226-1349  
 E-mail: thomas.j.heinz@imegcorp.com

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION

Seal Issue Date

100% CONSTRUCTION DOCUMENTS 9 APRIL 2024

**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261 AMD / 2160 CO-OP  
 Northern State University  
 1203 S July St  
 Aberdeen, South Dakota 57401  
 Telephone: 605-628-3011  
 E-mail:

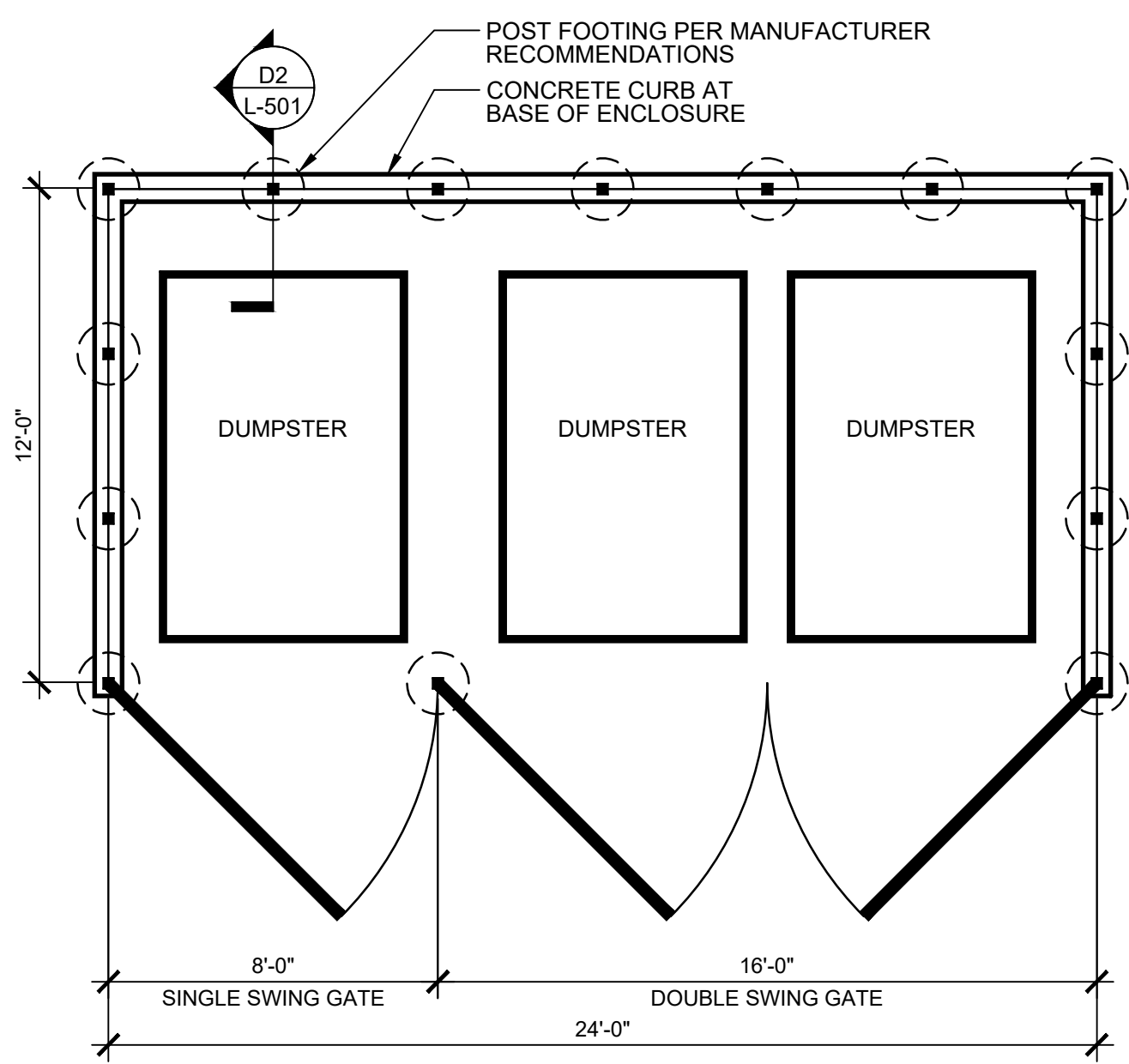
Project Number: 21-261 AMD / 2160 CO-OP  
 Drawn By: CK  
 Reviewed By: CK  
 Approved By: LP

**IRRIGATION PLAN**

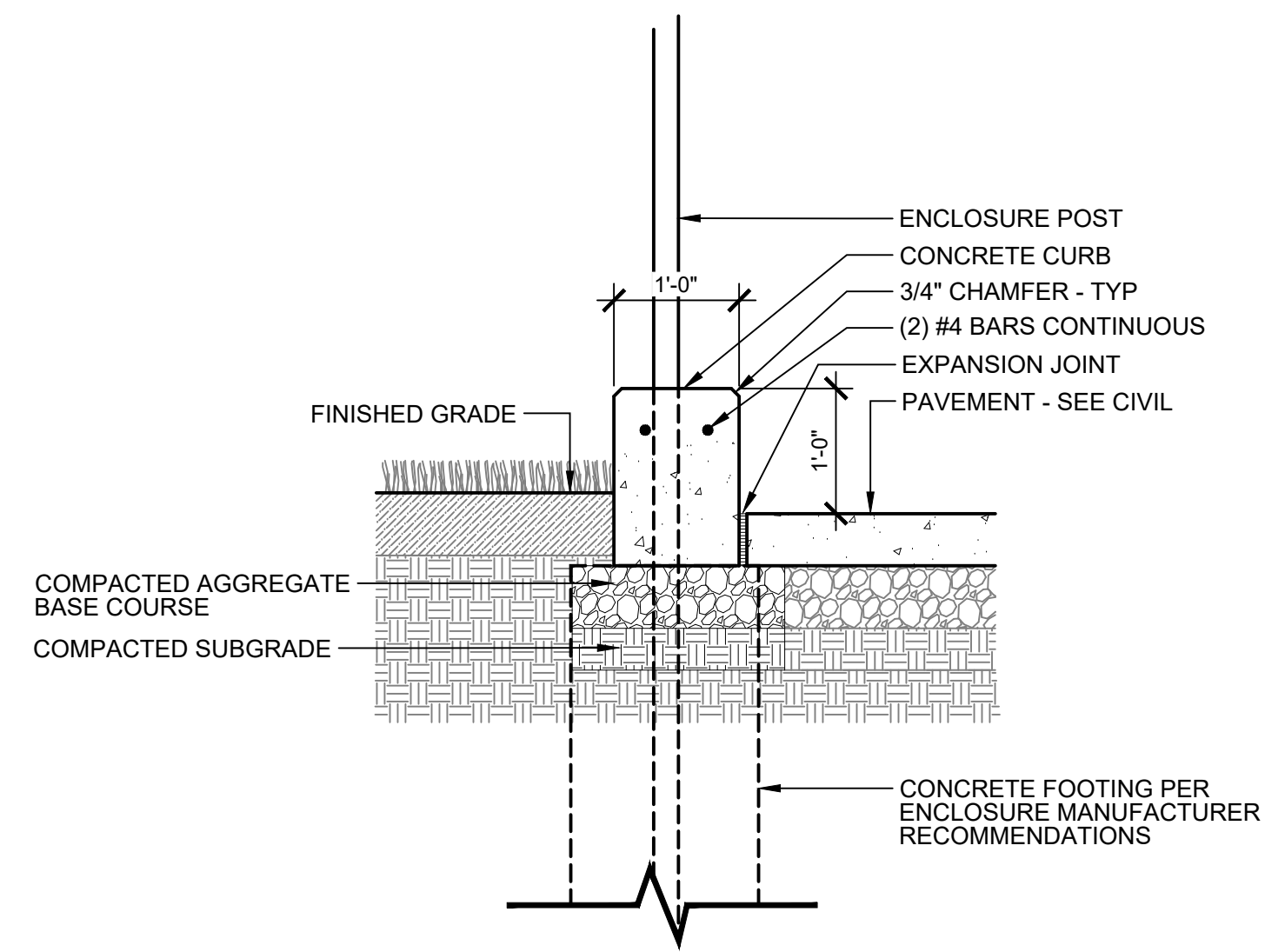
**L-302**



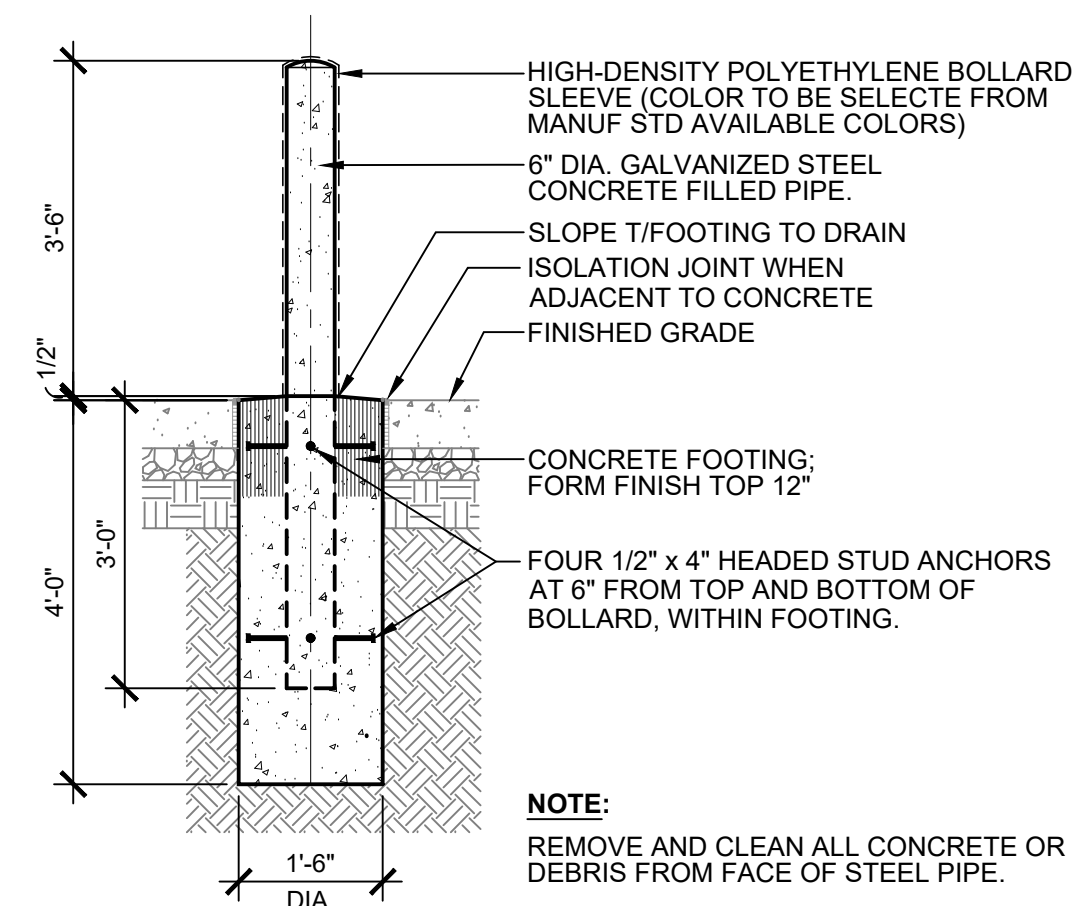
**PREFABRICATED TRASH ENCLOSURE SYSTEM - BASIS OF DESIGN:**  
 MANUF: AMETCO | AMETCO.COM  
 MODEL: 'SHADOW' 100 DESIGN FIXED LOUVER GALVANIZED CARBON STEEL TRASH ENCLOSURE, 7'-0" HEIGHT  
 FINISH: POWDER COATED



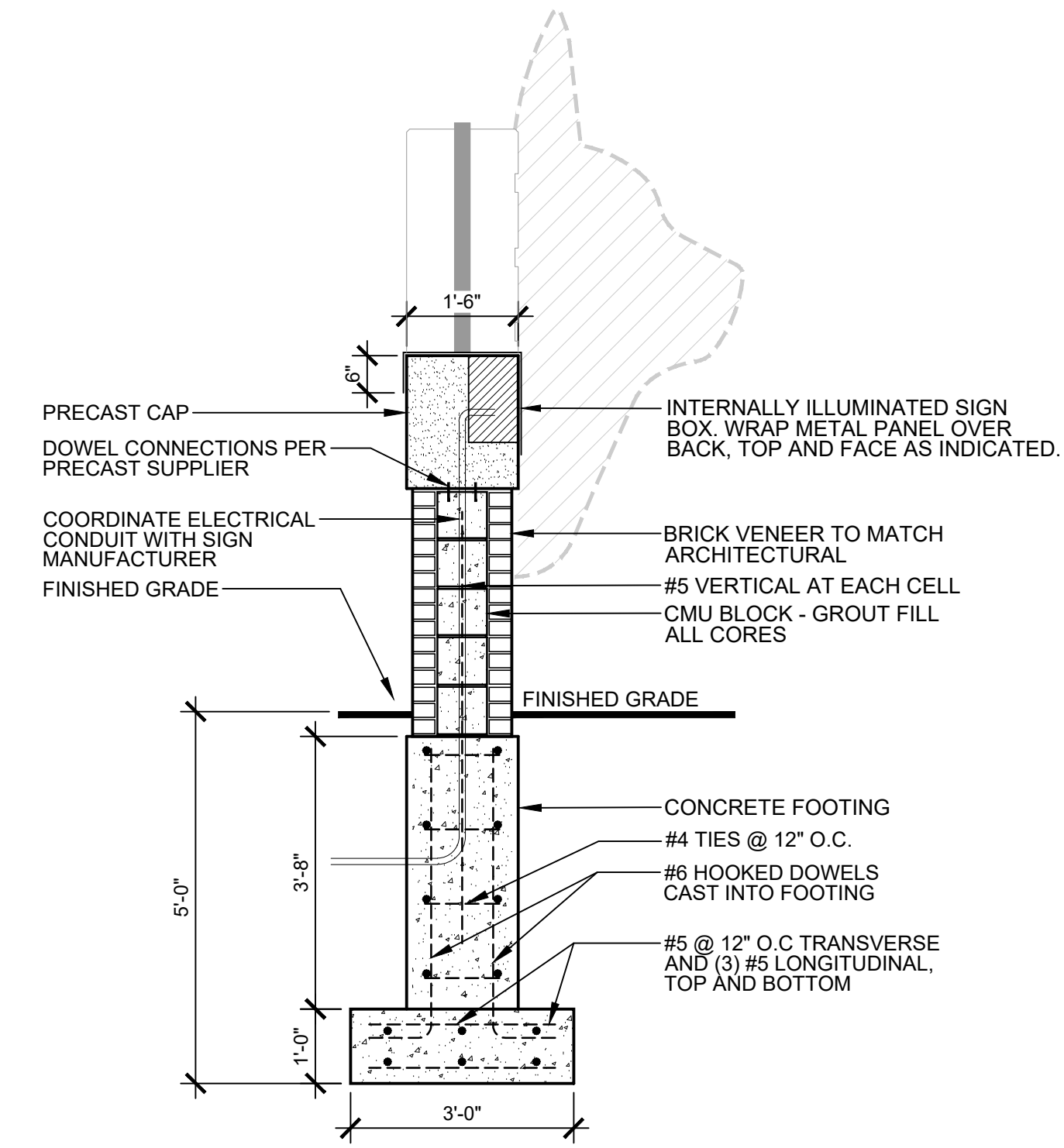
**D1 L-501 TRASH ENCLOSURE (ALTERNATE #6)**  
 SCALE: 1/4" = 1'-0"



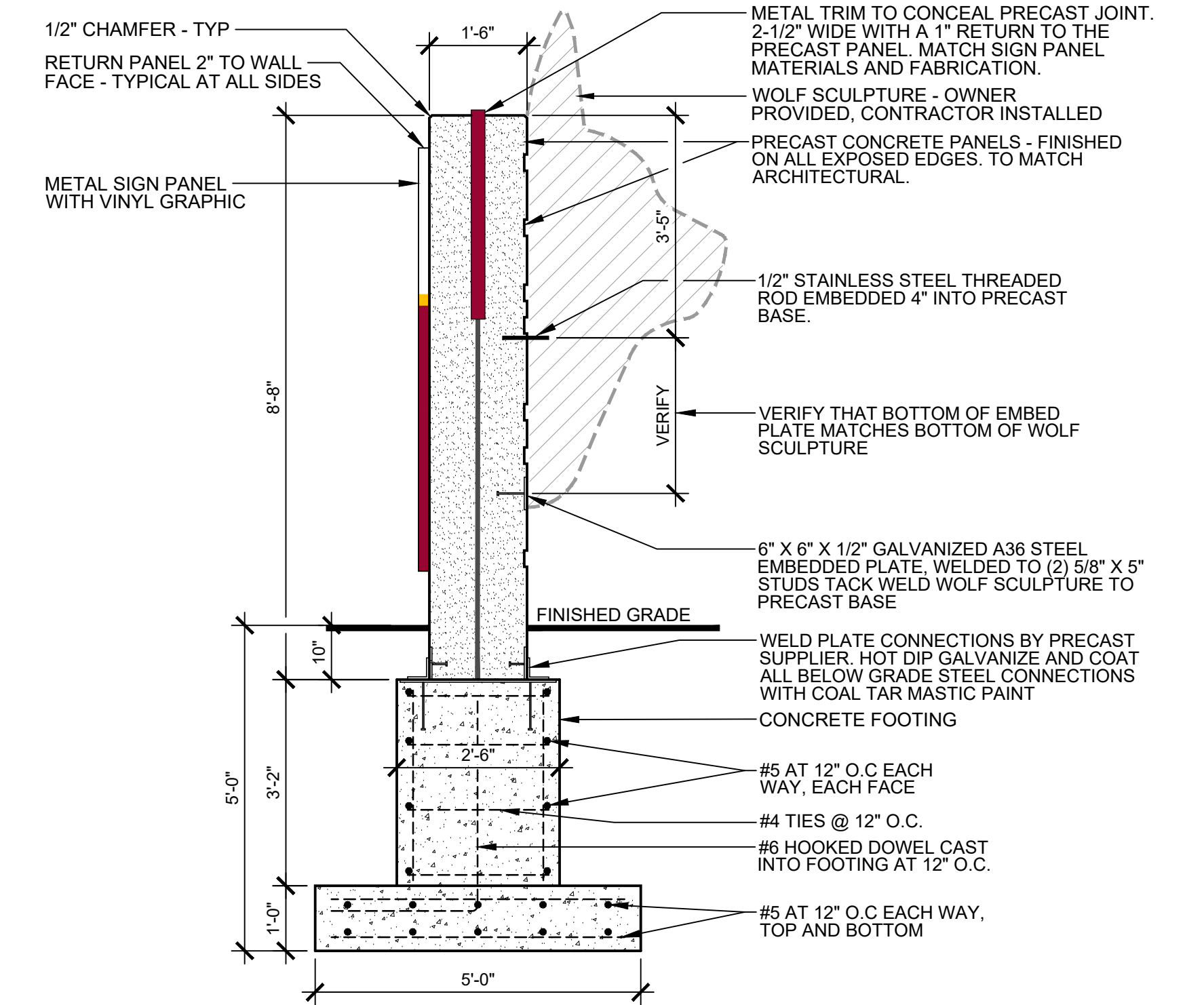
**D2 L-501 TRASH ENCLOSURE CURB (ALTERNATE #6)**  
 SCALE: 3/4" = 1'-0"



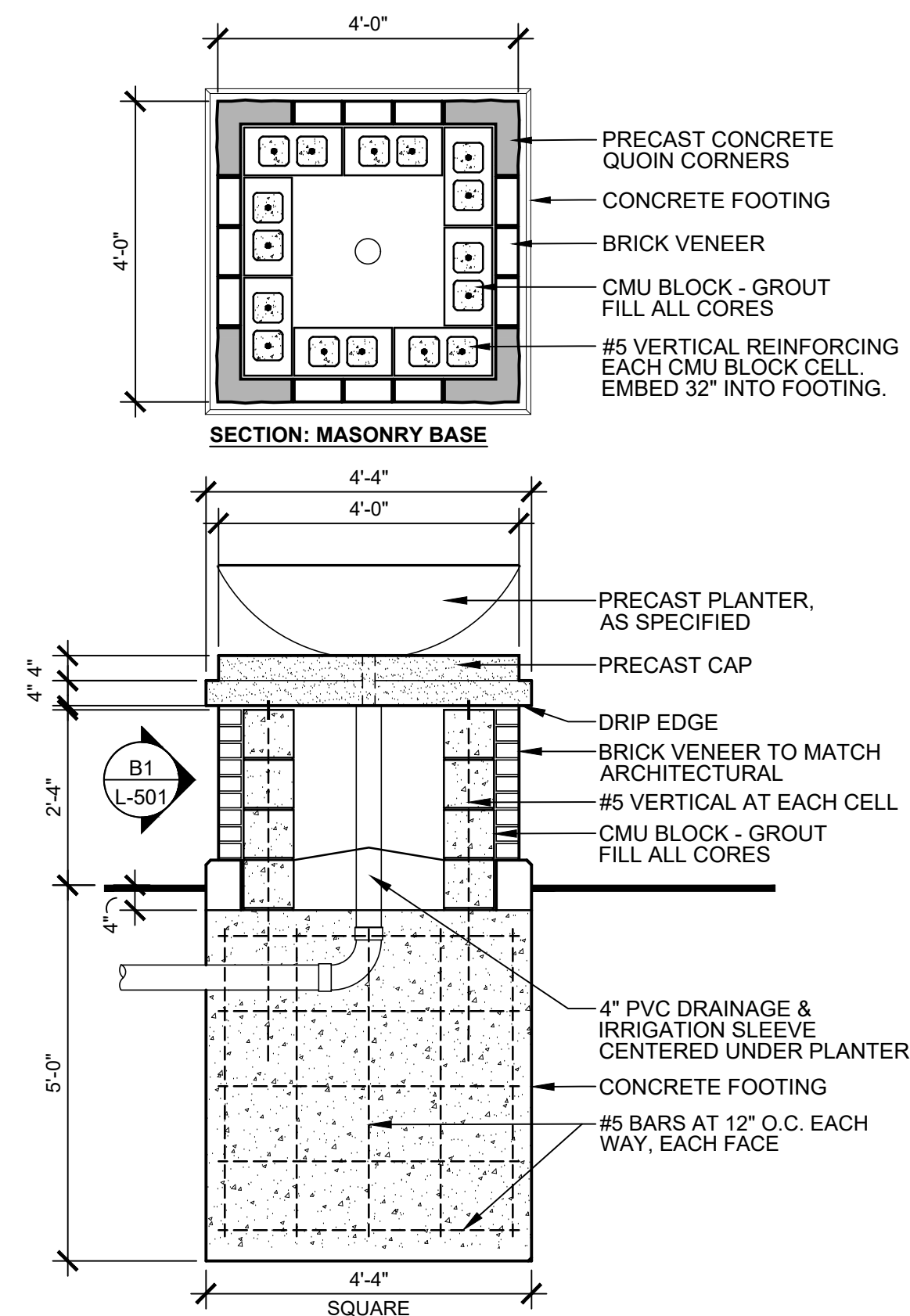
**D3 L-501 BOLLARD (ALTERNATE #6)**  
 SCALE: 1/2" = 1'-0"



**D4 L-501 SECTION: MONUMENT SIGN (ALTERNATE #10)**  
 SCALE: 1/2" = 1'-0"



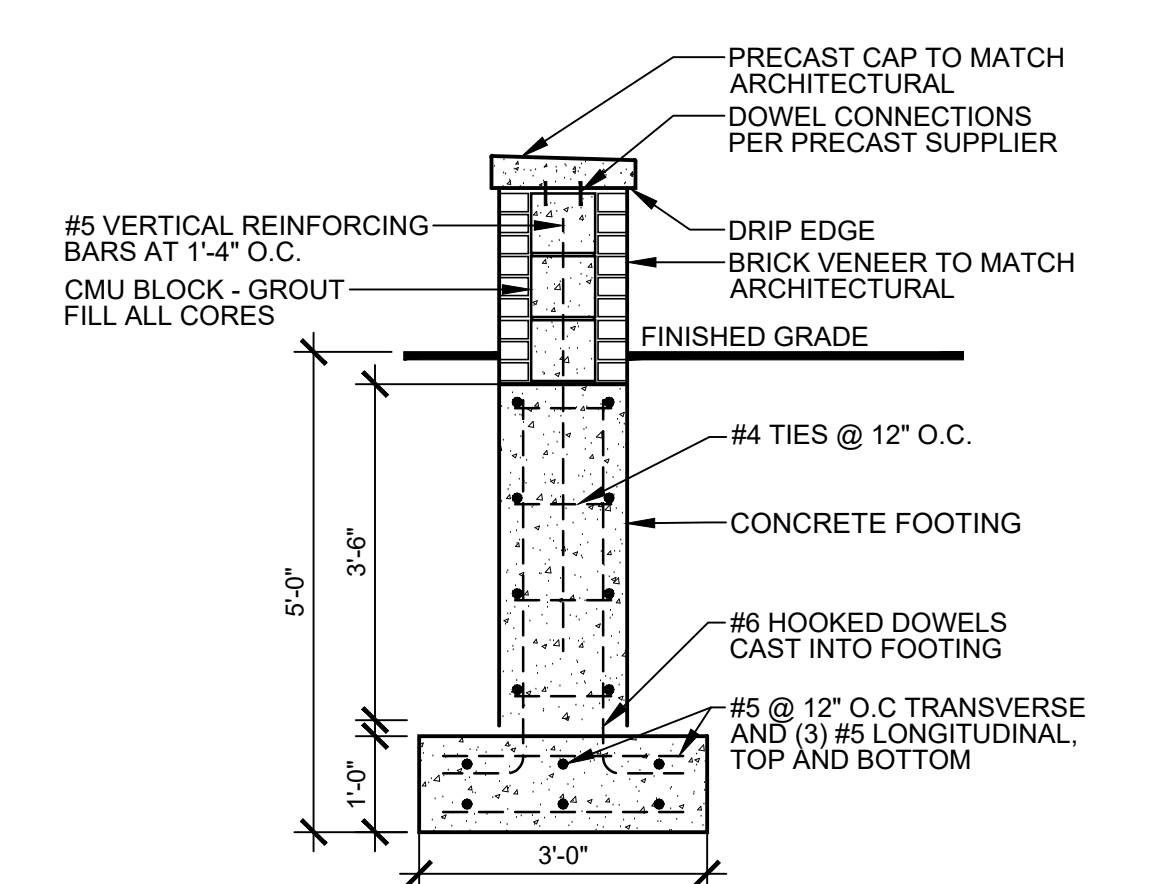
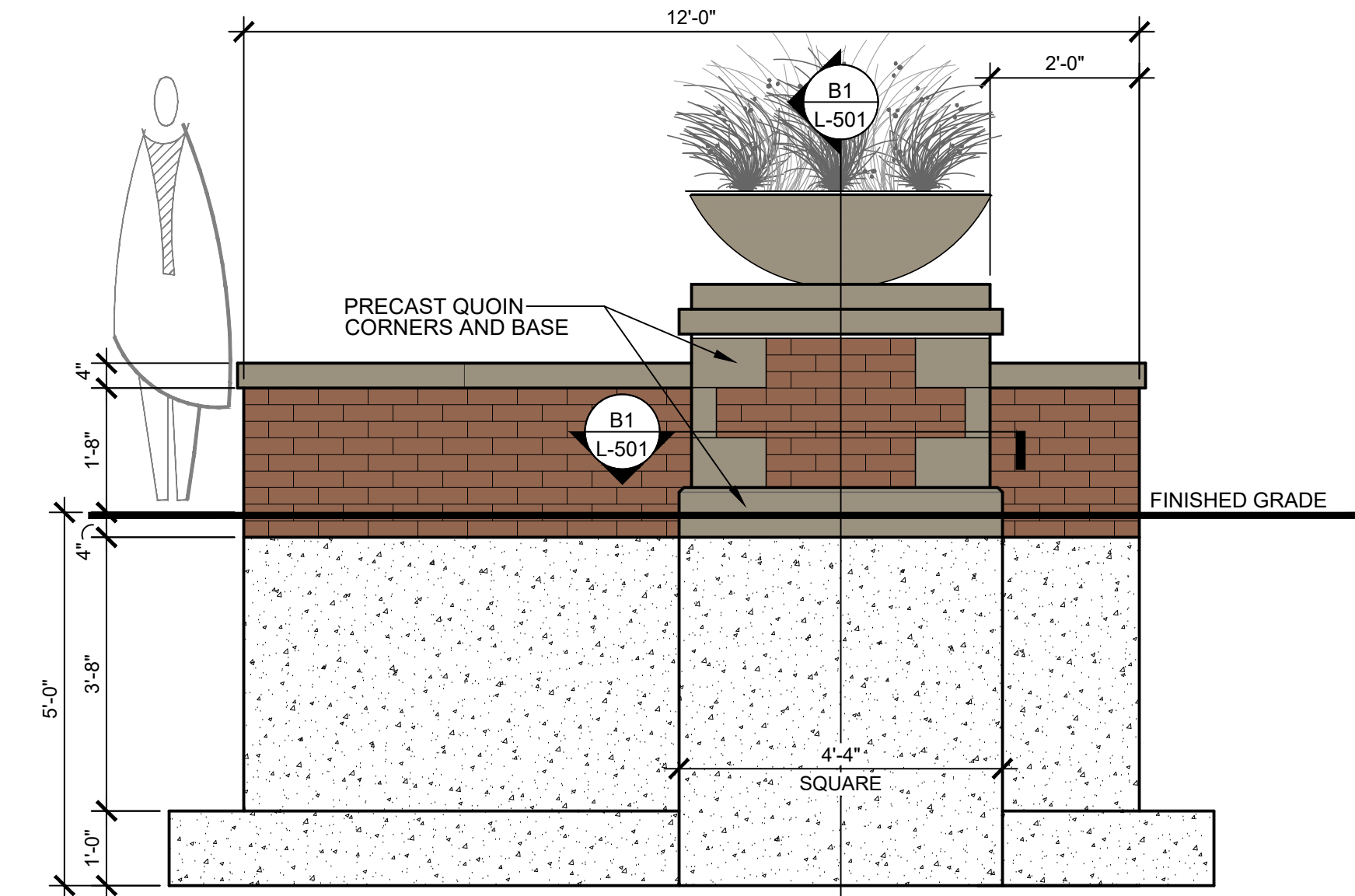
**D5 L-501 SECTION: MONUMENT SIGN PRECAST PANEL (ALTERNATE #10)**  
 SCALE: 1/2" = 1'-0"



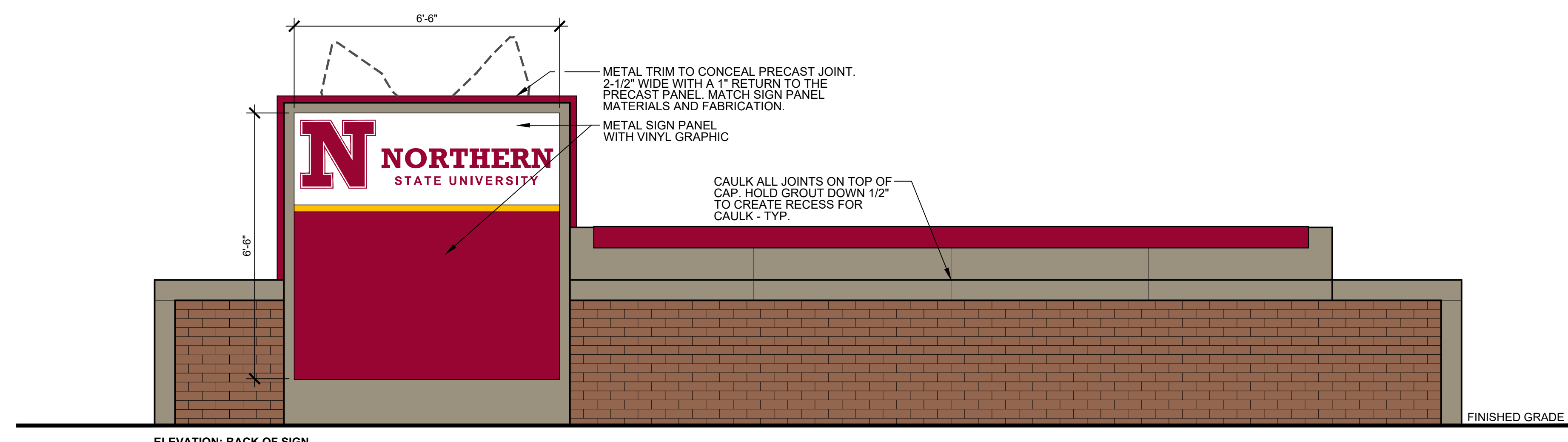
**B1 L-501 PRECAST PLANTER ON MASONRY BASE (ALTERNATE #12)**  
 SCALE: 1/2" = 1'-0"



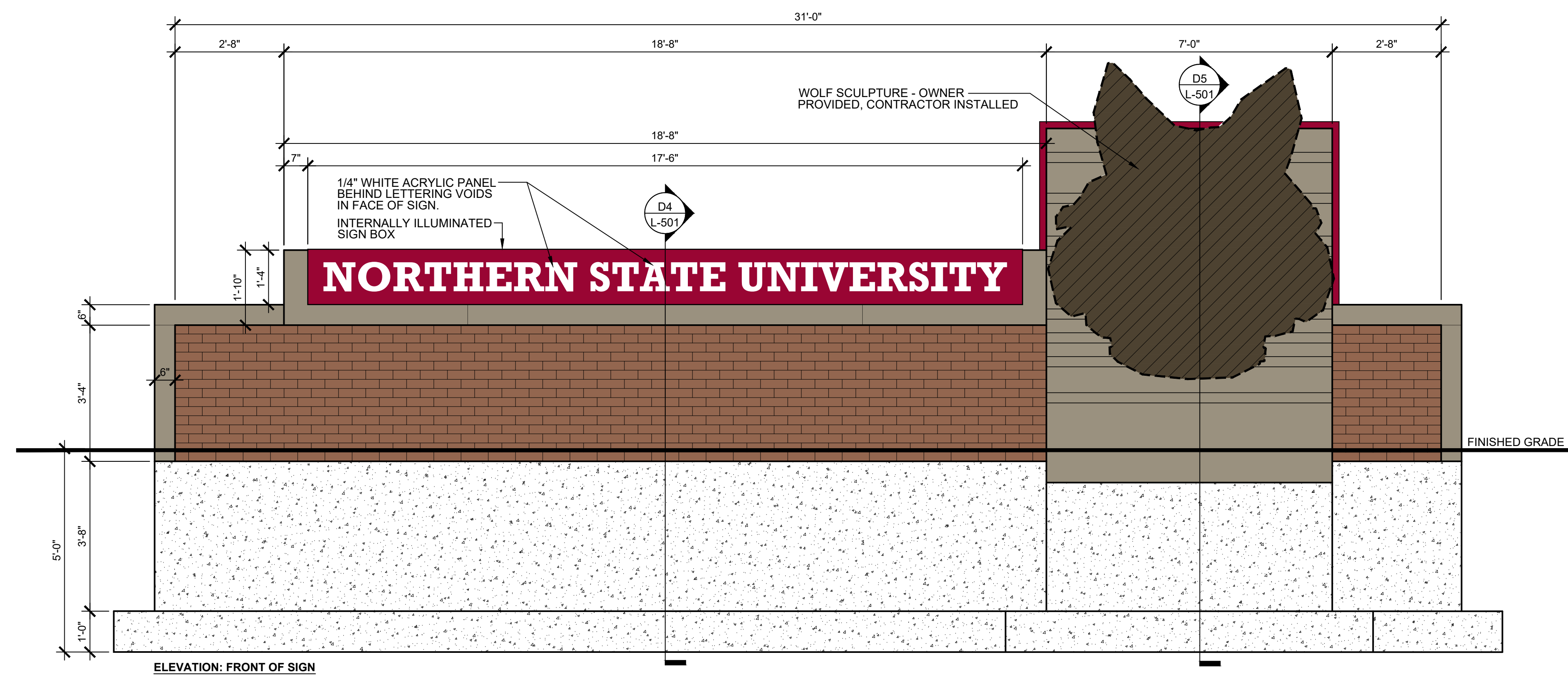
PRECAST PLANTER  
 MANUF: WAUSAU TILE  
 MODEL: TF4106



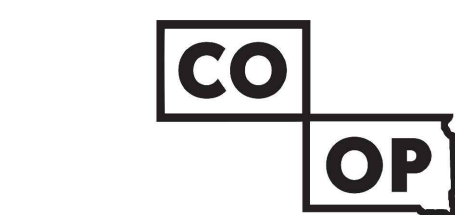
**A1 L-501 MASONRY SEATWALL (ALTERNATE #12)**  
 SCALE: 1/2" = 1'-0"



**ELEVATION: BACK OF SIGN**



**A3 L-501 MONUMENT SIGN WITH MASONRY WALL FOR WOLF SCULPTURE (ALTERNATE #10)**  
 SCALE: 1/2" = 1'-0"



**AndersonMasonDale Architects**

**Architect of Record**  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-224-4652  
 E-mail: tom@co-oparch.com

**Associate Architect**  
 AndersonMasonDale Architects, P.C.  
 3198 Speer Boulevard  
 Denver, CO 80211  
 Telephone: 303-294-0448  
 FAX: 303-294-0762  
 E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-224-1212  
 E-mail: lucash@helmsengineering.com

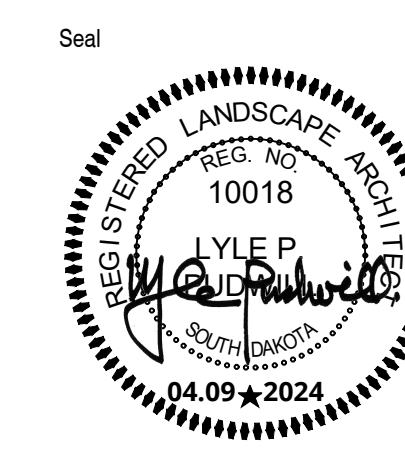
**Landscape Architect**  
 Confluence  
 524 N Main Ave, Suite 201  
 Sioux Falls, SD 57104  
 Telephone: 605-224-2344  
 E-mail: lpudwil@thinkconfluence.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57108  
 Telephone: 605-432-2310  
 E-mail: jchrstensen@riseincorp.com

**Mech & Plumbing Engineer**  
 Sichmiller Engineering  
 801 railroad Ave SE  
 Aberdeen, South Dakota 57401  
 Telephone: 605-225-1340  
 E-mail: traviss@sceng.biz

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-225-1340  
 E-mail: thomas.j.heinz@imegcorp.com

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION



Seal Issue Date  
 100% CONSTRUCTION DOCUMENTS 9 APRIL 2024

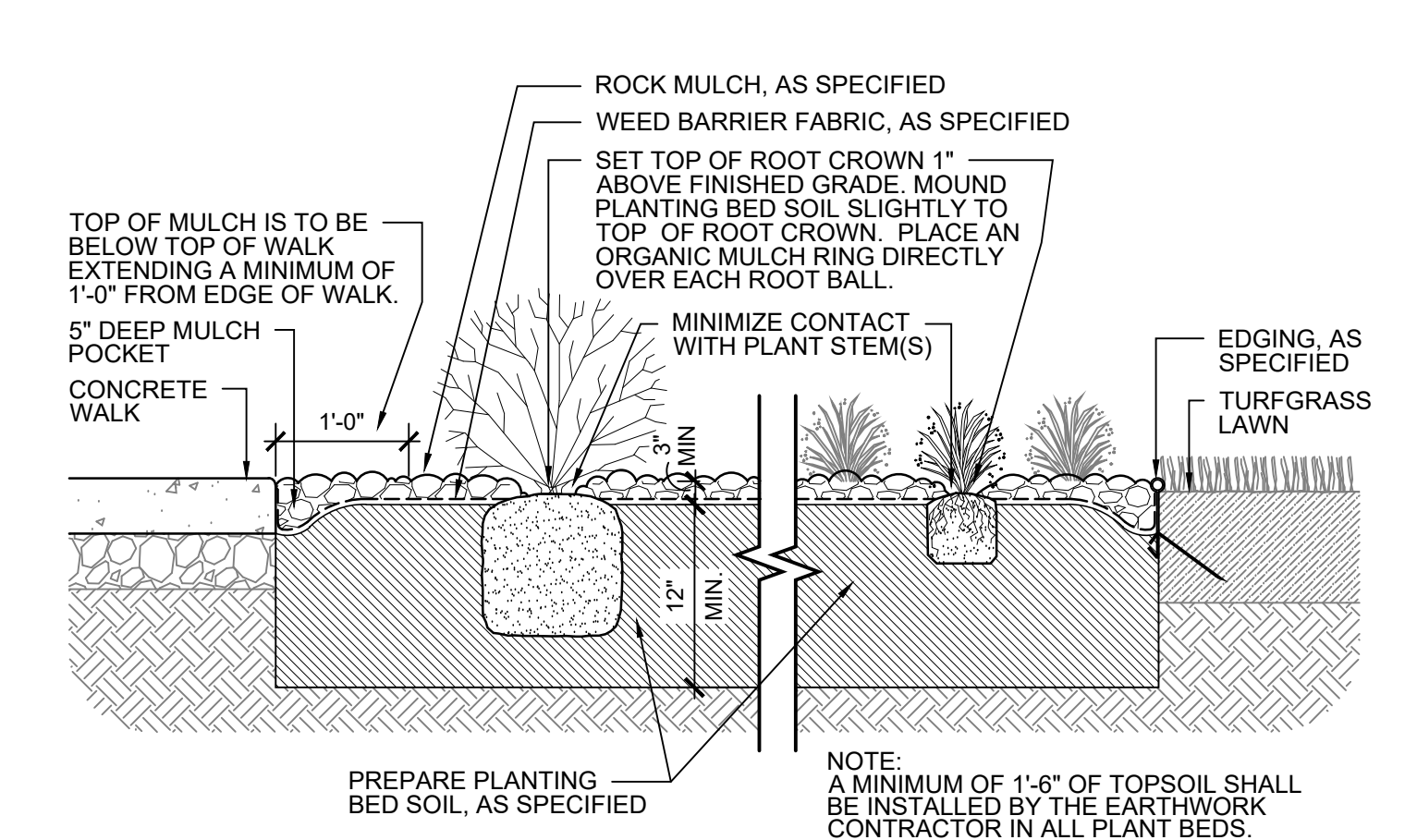
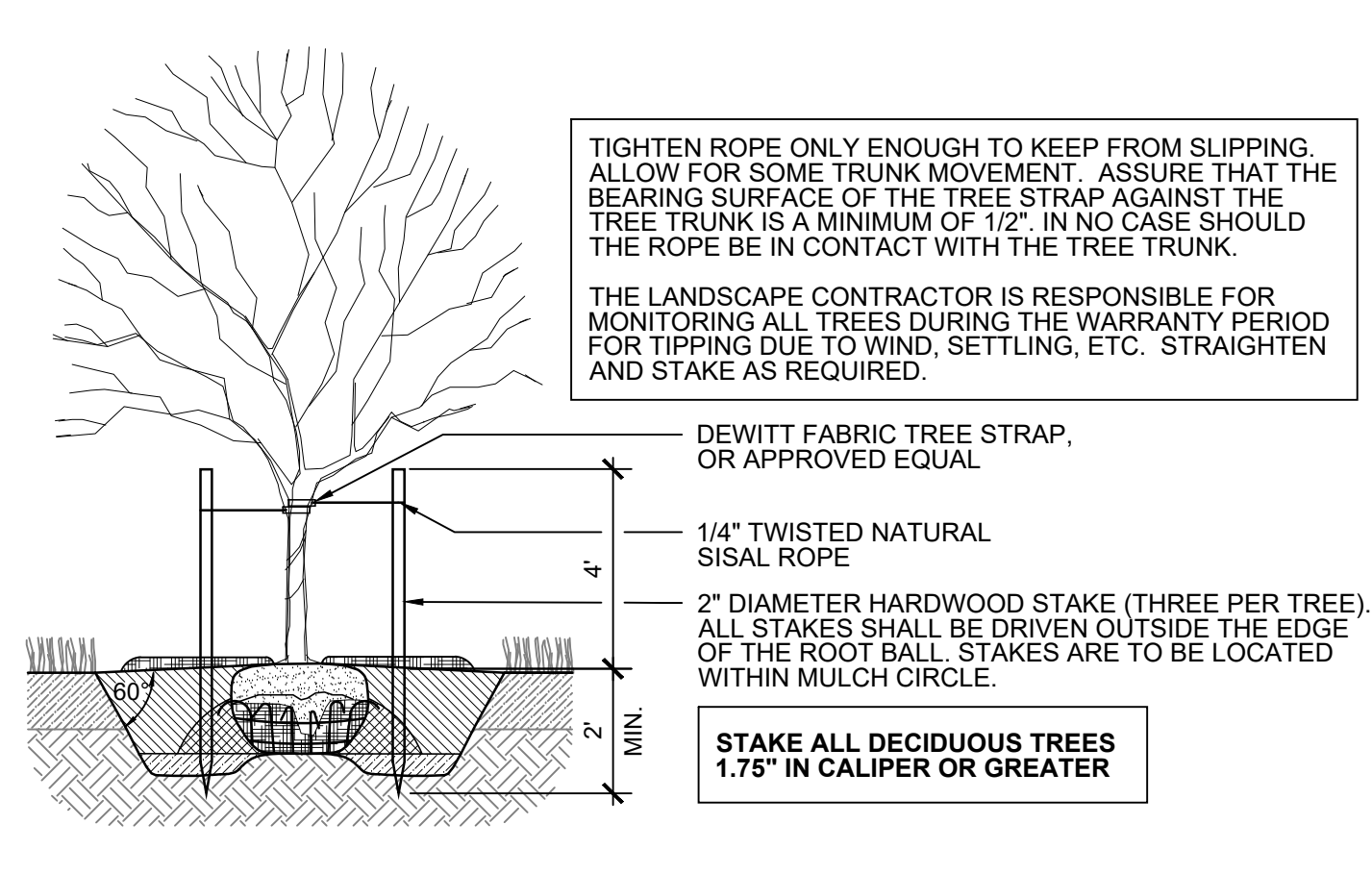
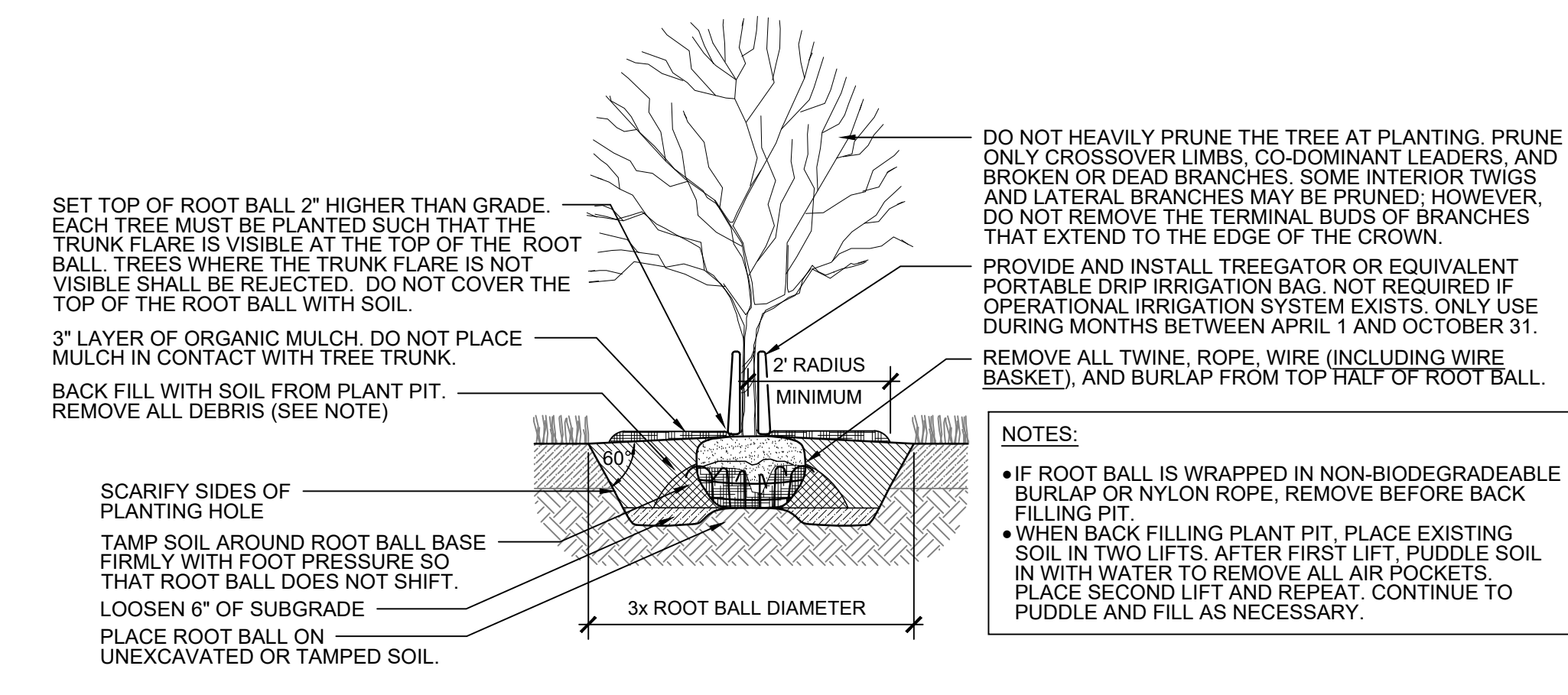
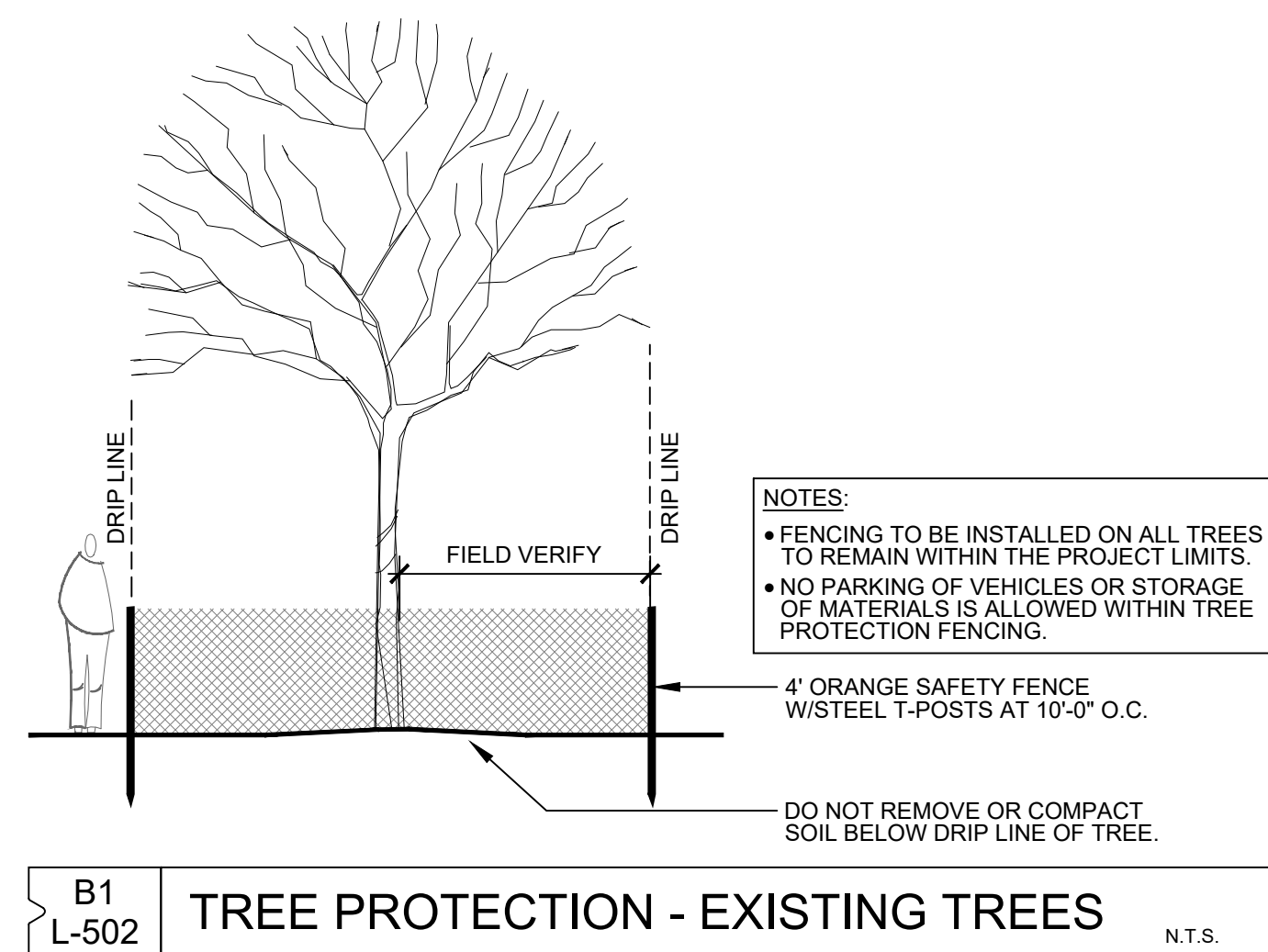
**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261 AMD / 2160 CO-OP  
 Northern State University  
 1333 S. Jay St.  
 Aberdeen, South Dakota 57401  
 Telephone: 605-628-3011  
 E-mail:

Project Number: 21-261 AMD / 2160 CO-OP  
 Drawn By: EE LP  
 Reviewed By: LP  
 Approved By: LP

**SITE DETAILS**

**L-501**





EDGE OF PLANTING AREA

PLANT ROW - TYP.

PLANT CENTER - TYP.

TRIANGULAR SPACING - 'S'	DISTANCE BETWEEN ROWS - 'D'	TOTAL AREA PER PLANT (SF)
12"	10-1/2"	0.88
15"	13"	1.35
18"	15-1/2"	1.94
21"	18"	2.63
24" (2')	21"	3.50
30" (3')	26"	5.42
36" (4')	31"	7.75
42" (5')	36"	10.50
60" (5')	52"	22.34

**A4**  
**L-502** PLANT SPACING N.T.S.

**CO OP**

**AndersonMasonDale Architects**

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-224-4652  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-291-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-229-1212  
E-mail: jkcash@helmsengineering.com

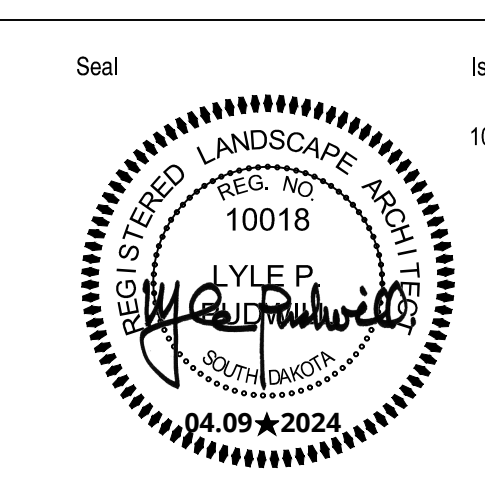
**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57108  
Telephone: 605-742-2510  
E-mail: jchristensen@riseincorp.com

**Landscpe Architect**  
Confiance  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-229-1205  
E-mail: tpudw@thinkconfiance.com

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave, NE  
Aberdeen, SD 57401  
Telephone: 605-229-1349  
E-mail: thomas.j.heinz@imegcorp.com

**Mech & Plumbing Engineer**  
Sichmetier Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-229-1344  
E-mail: traviss@secong.biz

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION



Seal Issue Date  
100% CONSTRUCTION DOCUMENTS 9 APRIL 2024

**LINCOLN HALL**

12th Ave SE, Aberdeen, SD 57401  
21-261 AMD / 2160 CO-OP

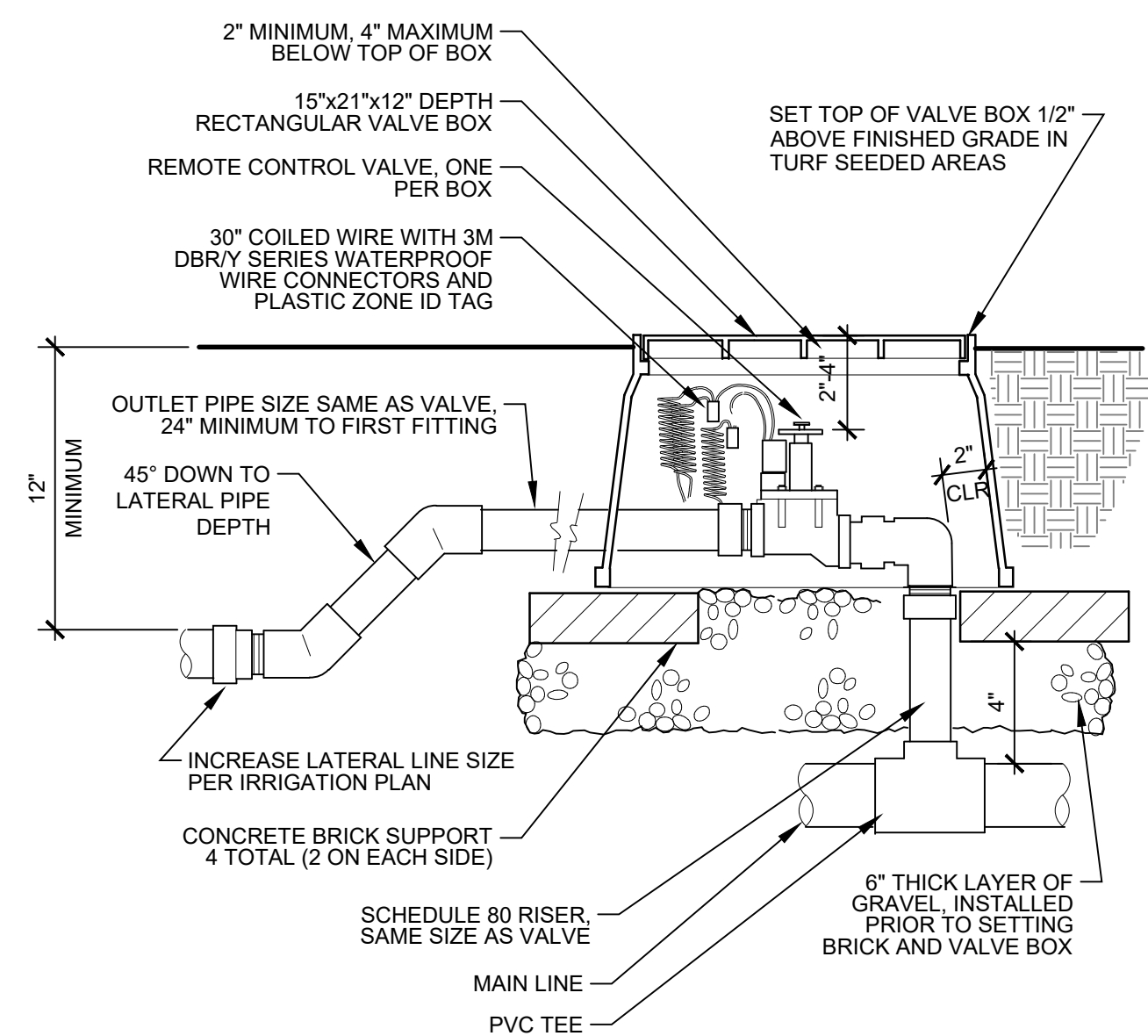
**Nothern State University**  
1333 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261 AMD / 2160 CO-OP  
Drawn By: EE, LP  
Reviewed By: LP  
Approved By: LP

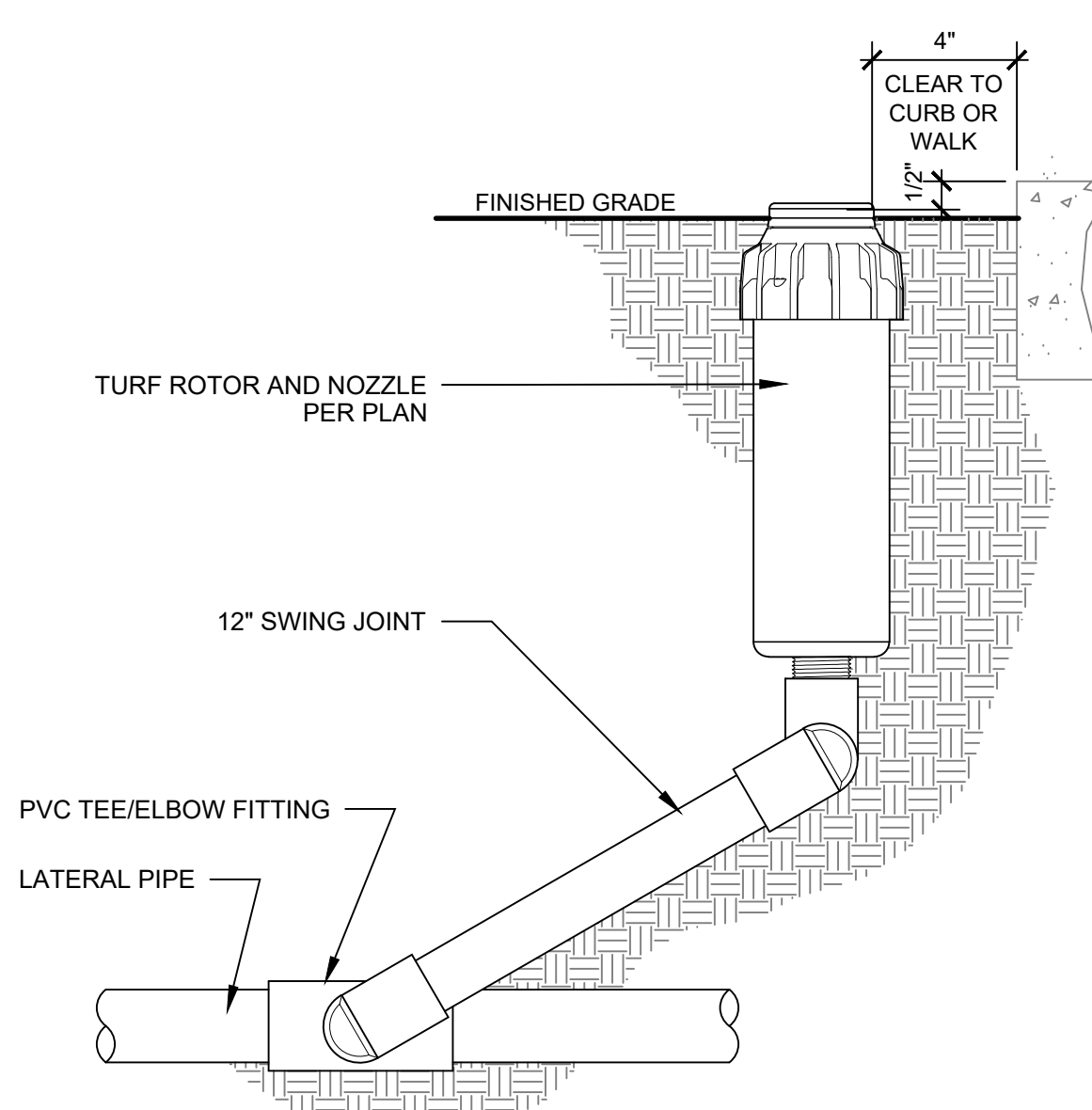
**SITE DETAILS**

**L-502**

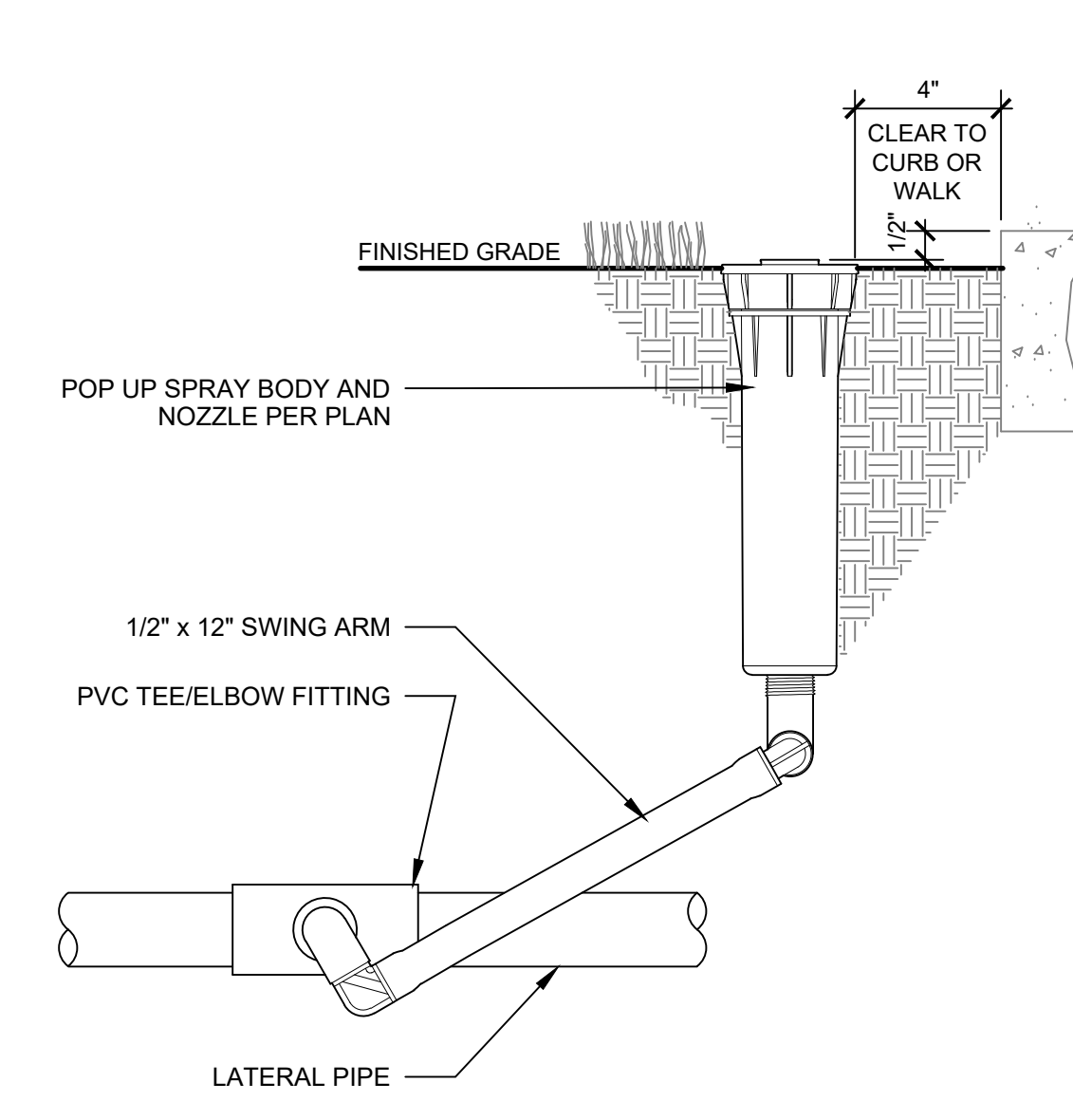




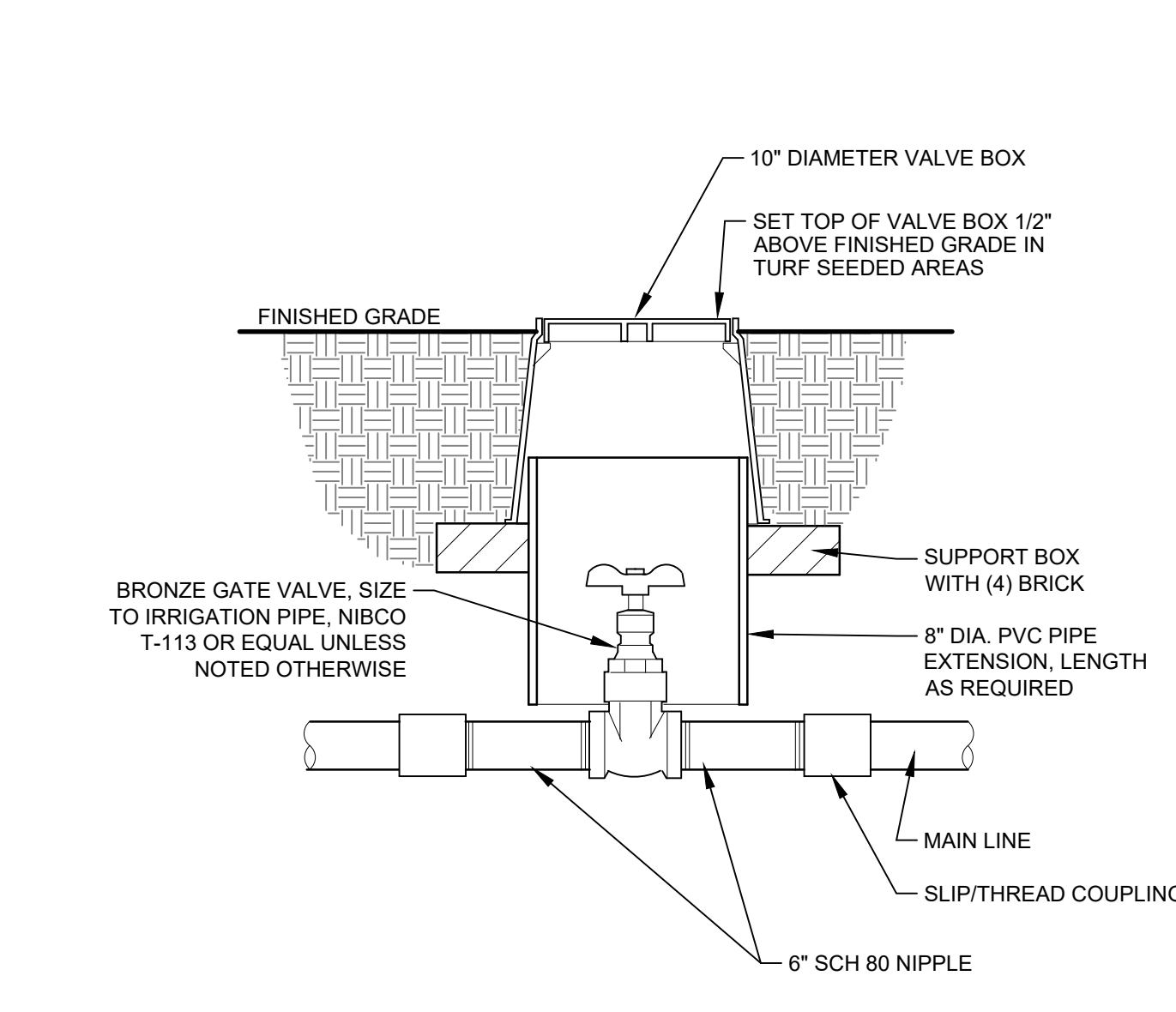
1 CONTROL VALVE NOT TO SCALE



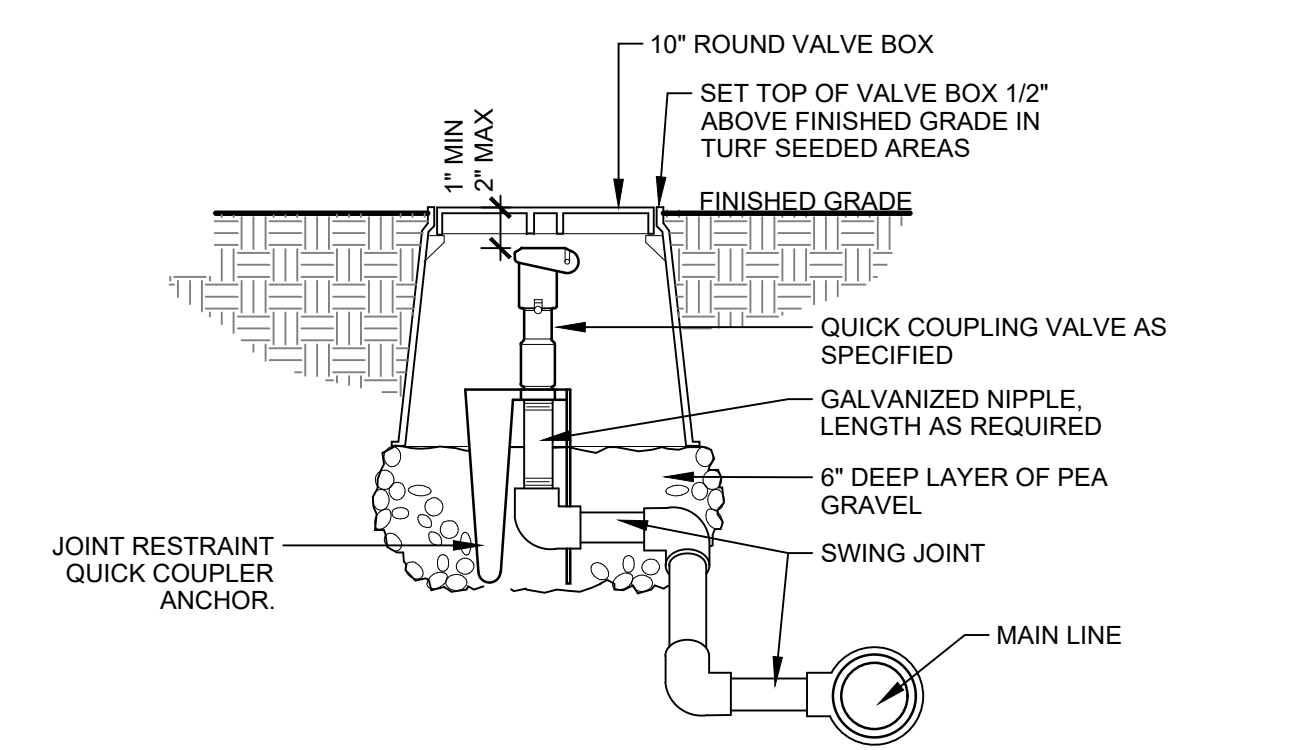
2 TURF ROTOR NOT TO SCALE



3 SPRAY/ROTARY HEAD NOT TO SCALE



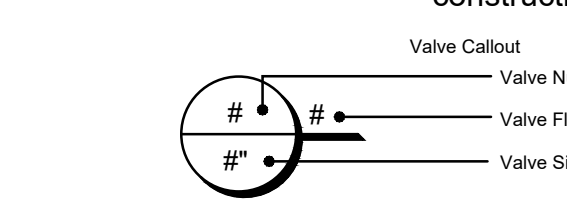
4 ISOLATION VALVE NOT TO SCALE



5 QUICK COUPLER VALVE NOT TO SCALE

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI		
⊙ ⊙ ⊙ ⊙ ⊙	Hunter PROS-04-PRS30-CV-F 10 Series Turf Spray with FloGuard Technology, 30 psi regulated 4in. Pop-Up.	26	30		
⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙ ⊙	Hunter PROS-04-PRS30-CV-F Adj Series Turf Spray with FloGuard Technology, 30 psi regulated 4in. Pop-Up.	1	30		
⊕	Hunter MP Corner PROS-04-PRS40-CV-F Turf Rotor, 4in. pop-up with FloGuard Technology, pressure regulated to 40 psi. MP Rotator nozzle. T=Turquoise adj arc 45-105 on PRS40 body.	2	40		
⊕ ⊕ ⊕ ⊕	Hunter MP 1000 PROS-04-PRS40-CV-F Turf Rotor, 4in. pop-up with FloGuard Technology, pressure regulated to 40 psi. MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	8	40		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	GPM	RADIUS
⊙	Hunter PGP-04-MPR 25 Turf Rotor, 4in. Pop-Up. Adjustable to Full Circle. MPR Nozzle.	17	35	22'	
⊙	Hunter PGP-04-MPR 30 Turf Rotor, 4in. Pop-Up. Adjustable to Full Circle. MPR Nozzle.	16	35	27'	
⊙	Hunter PGP-04-MPR 35 Turf Rotor, 4in. Pop-Up. Adjustable to Full Circle. MPR Nozzle.	84	35	31'	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY			
⊙	Hunter PGPV-100G AS-ADJ 1" 1in. Plastic Electric Remote Control Valve with Adjustable Accu Sync Pressure Regulator. Female NPT Inlet/Outlet. Globe Configuration.	11			
⊙	Hunter PGPV-151G AS-ADJ 1-1/2" Plastic Electric Remote Control Valve with Adjustable Accu Sync Pressure Regulator. Female NPT Inlet/Outlet. With Flow Control. Globe Configuration.	5			
⊙	Hunter HQ-44RC-AW 1" Quick coupler valve, yellow rubber cover, red brass and stainless steel, with 1in. NPT inlet, 2-piece body. Acme key with Anti-Rotation wings.	3			
⊙	Nibco T-113 Class 125 bronze gate isolation valve with wheel handle, same size as mainline pipe diameter at valve location.	2			
⊙	Hunter ICV-G 1-1/2" Master Valve, Globe Configuration.	1			
⊙	Rain Bird ESP4ME3 with LNK2WIFI 16 Station with (2) ESP-SM3 (1) ESP-SM6 expansion modules, Hybrid Modular Controller. LNK WIFI Module and Flow Sensor Ready.	1			
⊙	Rain Bird WR2-RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter.	1			
⊙	Rain Bird FS-150-P 1-1/2in. Flow Sensor, Plastic PVC Model. Suggested Operating Range 5.0 GPM to 100.0 GPM. Sized for Flow Not According to Pipe Size. Install in Valve Box.	1			
POC	Point of Connection 2"	1			
---	Irrigation Lateral Line: HDPE PE3608 SIDR 15 1"	2,779 l.f.			
---	Irrigation Lateral Line: HDPE PE3608 SIDR 15 1 1/4"	424.1 l.f.			
---	Irrigation Lateral Line: HDPE PE3608 SIDR 15 1 1/2"	161.4 l.f.			
---	Irrigation Mainline: HDPE PE3608 SIDR 15 1 1/2"	85.7 l.f.			
---	Irrigation Mainline: HDPE PE3608 SIDR 15 2"	546.1 l.f.			
---	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	108.8 l.f.			



VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	21.04	40.4	45.3	0.77 in/h
2	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	19.36	40.0	44.8	0.79 in/h
3	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	22.15	40.3	44.1	0.92 in/h
4	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	23.4	41.2	43.9	0.77 in/h
5	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	18.92	43.8	46.4	0.78 in/h
6	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	25.46	43.9	46.2	0.73 in/h
7	Hunter PGPV-151G AS-ADJ	1-1/2"	Turf Rotor	33.1	41.5	44.1	0.74 in/h
8	Hunter PGPV-151G AS-ADJ	1-1/2"	Turf Rotor	33.1	41.5	44.2	0.71 in/h
9	Hunter PGPV-151G AS-ADJ	1-1/2"	Turf Rotor	33.1	40.1	42.8	0.71 in/h
10	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	22.5	41.3	44.0	0.7 in/h
11	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	22.15	40.0	44.4	0.74 in/h
12	Hunter PGPV-151G AS-ADJ	1-1/2"	Turf Rotor	27.58	41.7	46.3	0.74 in/h
13	Hunter PGPV-151G AS-ADJ	1-1/2"	Turf Rotor	34.81	39.9	45.0	0.73 in/h
14	Hunter PGPV-100G AS-ADJ	1"	Turf Spray	22.83	36.2	41.9	1.1 in/h
15	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	25.75	41.1	47.0	0.82 in/h
16	Hunter PGPV-100G AS-ADJ	1"	Turf Rotor	12.1	37.7	43.9	0.79 in/h

CRITICAL ANALYSIS

Generated: 2024-03-13 10:15

P.O.C. NUMBER: 01  
Water Source Information:

FLOW AVAILABLE  
Point of Connection Size: 2"  
Flow Available: 70.55 GPM

PRESSURE AVAILABLE  
Static Pressure at POC: 50 PSI  
Pressure Available: 50 PSI

DESIGN ANALYSIS  
Maximum Multi-valve Flow: 40 GPM  
Flow Available at POC: 70.55 GPM  
Residual Flow Available: 30.55 GPM

Critical Station: 15  
Design Pressure: 35 PSI  
Friction Loss: 1.08 PSI  
Fittings Loss: 0.11 PSI  
Elevation Loss: 0 PSI  
Loss through Valve: 4.91 PSI  
Pressure Req. at Critical Station: 41.1 PSI  
Loss for Fittings: 0.38 PSI  
Loss for Main Line: 3.78 PSI  
Loss for POC to Valve Elevation: 0 PSI  
Loss for Backflow: 0 PSI  
Loss for Master Valve: 1.7 PSI  
Critical Station Pressure at POC: 47.0 PSI  
Pressure Available: 50 PSI  
Residual Pressure Available: 3.04 PSI

**CO OP**

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-259-4652  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-291-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-259-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-259-1205  
FAX: 303-294-0762  
E-mail: lbudwig@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-742-2510  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-259-1349  
E-mail: traviss@sicong.biz

ARCHITECTURAL DRAWINGS ARE TO BE VIEWED IN COLOR FOR FULL AND COMPLETE INFORMATION

Seal Issue Date

100% CONSTRUCTION DOCUMENTS 9 APRIL 2024

REGISTERED LANDSCAPE ARCHITECT  
LYLE P. HENNING  
SOUTH DAKOTA  
04.09.2024

**LINCOLN HALL**

12th Ave SE, Aberdeen, SD 57401  
21-261 AMD / 2160 CO-OP

**Northern State University**  
1393 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-628-3011  
E-mail:

Project Number: 21-261 AMD / 2160 CO-OP  
Drawn By: CK  
Reviewed By: CK  
Approved By: LP

IRRIGATION SCHEDULES & DETAILS

L-503



- GENERAL DESIGN CRITERIA:
- CODES:
    - INTERNATIONAL BUILDING CODE 2018
    - AMERICAN INSTITUTE OF STEEL CONSTRUCTION, LATEST EDITION
    - AMERICAN CONCRETE INSTITUTE, LATEST EDITION
    - AMERICAN WOOD COUNCIL, NATIONAL DESIGN SPECIFICATION, LATEST EDITION
    - COMPLY WITH ALL LOCAL CODES AND LAWS, INCLUDING OSHA REGULATIONS

- LATERAL LOADS:
  - LATERAL SYSTEM- STEEL BRACED FRAMES & STEEL MOMENT FRAMES
  - BUILDING OCCUPANCY: III
  - SEISMIC DESIGN CATEGORY A
  - SEISMIC DESIGN CATEGORY A
  - IMPORTANCE FACTOR  $I_p=1.10$
  - ACCELERATIONS:  $S_S=0.08$   $S_1=0.025$
  - SITE CLASS: D
  - SPECTRAL:  $S_{DS}=0.085$   $S_{D1}=0.04$
  - ANALYSIS PROCEDURE:
    - EQUIVALENT LATERAL FORCE

- WIND:
- BASIC WIND SPEED: 115 MPH
  - EXPOSURE: B
  - INTERNAL PRESSURE COEFFICIENT: ENCLOSED

COMPONENTS AND CLADDING WIND (UNFACTORED):

WIND ZONES	GROSS WIND PRESSURE	NET UPLIFT
ROOF (ZONE 1):	+16PSF OR -26PSF	-22.5PSF
ROOF (ZONE 2a):	+16PSF OR -26PSF	-25.5PSF
ROOF (ZONE 2b):	+16PSF OR -33PSF	-26.5PSF
ROOF (ZONE 3):	+16PSF OR -26PSF	-25.5PSF
ROOF (ZONE 1 OH):	+16PSF OR -45PSF	-41.5PSF
ROOF (ZONE 2a OH):	+16PSF OR -55PSF	-51.5PSF
ROOF (ZONE 2 OH):	+16PSF OR -45PSF	-42.5PSF
ROOF (ZONE 3 OH):	+16PSF OR -65PSF	-61.5PSF
WALL (ZONE 4):	+23PSF OR -26PSF	
WALL (ZONE 5):	+23PSF OR -26PSF	

THIS ASSUMES AN INFLUENCE AREA OF 80 SQ FT. FOR WALL ZONES & 1695 SQ FT. FOR ROOF ZONES. INCREASE OF PRESSURE FOR OTHER INFLUENCE AREAS SHALL BE BY THE COMPONENT DESIGNER. THE USE OF ALTERNATE LOAD COMBINATIONS IN SECTION 1605.3.2 IS NOT ALLOWED.

3. SUPERIMPOSED - DEAD LOADS:

- ROOF:
- METAL:
    - METAL DECK: 3PSF
    - INSULATION/MEMBRANE: 3PSF
    - CMP: 3PSF
    - JOIST BRIDGING: 3PSF

- FLOOR:
- MEZZANINE & 2nd FLOOR METAL & CONCRETE:
    - CONCRETE ON DECK: 39PSF
    - CMP: 3PSF
    - FLOORING/MISC.: 3PSF
    - PONDING: 3PSF

4. LIVE LOADS

- GROUND SNOW LOAD: 50PSF
- SLOPED ROOF SNOW LOAD (MINIMUM): 39PSF
  - IMPORTANCE FACTOR  $I_s=1.1$
  - SNOW EXPOSURE FACTOR  $C_e=1.00$
  - THERMAL FACTOR  $C_t=1.0$
  - SNOW DRIFT LOAD: ASCE-7 (APPROPRIATE YEAR)
- CLASSROOMS: 40PSF
- CORRIDOR & PUBLIC SPACES: 100PSF
- MECHANICAL: 100PSF
- PARTITIONS-CLASSROOMS: 10PSF
- STAIRS/EXTWAYS: 100PSF

GENERAL:

- THE CONTRACT DRAWINGS REPRESENT THE COMPLETED STRUCTURE. AT TIME OF SUBSTANTIAL COMPLETION, UNLESS NOTED OTHERWISE, THEY DO NOT STRUCTURE THE MEANS AND METHODS OF CONSTRUCTION, SEQUENCING AND MEANS AND METHODS OF CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH, SAFETY, AND STABILITY OF THE NEW AND EXISTING STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING, AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY. THE CONTRACTOR SHALL, AT HIS DISCRETION, EMPLOY A REGISTERED PROFESSIONAL ENGINEER FOR THE DESIGN OF ANY TEMPORARY BRACING AND SHORING.
- FIELD VERIFY ANY EXISTING DIMENSIONS, SIZES, AND THICKNESSES SHOWN ON DRAWINGS. IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- DETAILS AND NOTES SHOWN ON THE STRUCTURAL DOCUMENTS ARE TYPICAL FOR SIMILAR SITUATIONS IN THE PROJECT.
- OPTIONS, IF SHOWN, ARE FOR THE CONVENIENCE OF THE CONTRACTOR.
- THE COST OF ADDITIONAL DESIGN WORK NECESSITATED BY SEQUENCING OR CONSTRUCTION ERRORS SHALL BE PAID BY THE CONTRACTOR.
- ANY ENGINEERING PROVIDED BY OTHERS SHALL BE STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.

SPECIAL INSPECTION

- THE OWNER SHALL EMPLOY SPECIAL INSPECTORS TO PERFORM SPECIAL INSPECTION BASED ON IBC 2018. SPECIAL INSPECTION WILL BE REQUIRED FOR THE FOLLOWING:
- GEOTECHNICAL INVESTIGATIONS
  - CAST-IN-PLACE CONCRETE
  - STRUCTURAL MASONRY
  - STRUCTURAL STEEL

FOOTING AND FOUNDATIONS:

- NET ALLOWABLE BEARING PRESSURE: (ASSUMED PRESSURES- TO BE VERIFIED BY THE OWNER'S SOILS CONSULTANT DURING CONSTRUCTION)
  - COLUMN FOOTINGS: 1500PSF
  - WALL FOOTINGS: 1500PSF
- CENTER FOOTINGS UNDER WALLS AND COLUMNS, UNLESS NOTED OTHERWISE.
- CONCRETE SHALL NOT BE CAST ON FROZEN GROUND OR GROUND CONTAINING STANDING WATER. OWNER'S SOILS CONSULTANT SHALL REVIEW SUBGRADE PRIOR TO CASTING OF FOOTINGS AND SLABS. PROTECT SOIL FROM FREEZING AFTER CASTING FOOTING.
- UNLESS NOTED OTHERWISE, SLABS ON GRADE SHALL CONTAIN FIBERMESH REINFORCEMENT. SLAB SHALL BE PLACED OVER VAPOR BARRIER AND 6" MINIMUM COMPACTED GRANULAR FILL. OWNER'S SOILS CONSULTANT SHALL VERIFY SUBGRADE PRIOR TO PLACEMENT OF ANY FILL BELOW SLABS.
- PLACE REINFORCING IN ALL FOOTINGS PRIOR TO CASTING. FLOATING OF REINFORCING INTO FOOTING AFTER CASTING IS NOT PERMITTED. HOLD REINFORCING IN PLACE DURING CASTING OPERATIONS. CONSOLIDATE CONCRETE.
- BASEMENT WALLS SHALL NOT BE BACKFILLED UNTIL LOWER LEVEL SLAB AND FIRST FLOOR STRUCTURE IS IN PLACE. UNLESS BRACING IS PROVIDED.
- BACKFILL PLACED AGAINST FOUNDATION WALLS SHALL BE CLEAN, FREE-DRAINING GRANULAR MATERIAL FOR A MINIMUM OF 2FT AGAINST WALL. COMPACT SOILS ADJACENT TO FOUNDATION WALLS USING HAND EQUIPMENT.
- STEPS IN FOOTING, FOUNDATION WALLS, AND GRADE BEAMS SHALL BE COORDINATED WITH WALL FORMING SYSTEM.
- SEE ARCHITECTURAL DRAWINGS FOR OTHER REVEALS, INSERTS, EMBEDS, AND BOLTS.
- PIPING RUNNING BELOW FOOTING SHALL BE PLACED PRIOR TO FOOTING OPERATIONS AND THE HOLE FILLED WITH LEAN CONCRETE.

CONCRETE:

- CONCRETE STRENGTHS: 14MPCF CONCRETE DENSITY. MINIMUM 28-DAY CONCRETE STRENGTHS SHALL BE AS FOLLOWS:
  - TYPICAL UNLESS NOTED OTHERWISE: 4000PSI
  - FILL ON COMPOSITE MTL DECK: 4000PSI
  - FOOTINGS: 3000PSI
  - FOUNDATION WALLS: 3000PSI
  - SLABS ON GRADE: 4000PSI
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF ACI 301, 305, 306, 311, 315, 318 AND 347.
- CONCRETE MIX DESIGN SHALL CONFORM TO ACI 301 AND 318. WATER SHALL NOT BE ADDED ON SITE, UNLESS CALLED OUT ON THE APPROVED MIX DESIGN.
- CONCRETE MIX DESIGN PARAMETERS:
  - INTERIOR SLAB ON GRADE:
    - WATER TO CEMENT RATIO (W/C):  $\leq 0.48$
    - AIR CONTENT: 3% +/- 0.5%
  - FOOTINGS & FOUNDATION WALLS:
    - WATER TO CEMENT RATIO (W/C):  $\leq 0.48$
    - AIR CONTENT: 6.5% +/- 1%
- CONCRETE SLABS ON GRADE SHALL HAVE CONSTRUCTION JOINTS OR CUT JOINT AT 12FT O.C. MAXIMUM IN EACH DIRECTION. CUT SLAB BETWEEN 1 AND 12 HOURS AFTER CASTING SLAB. ISOLATE COLUMNS, WALLS, AND PIERS FROM SLABS AS SHOWN ON DRAWINGS. DO NOT CUT SLABS ON DECK OR PRECAST TOPPING SLABS.
- SEE ARCHITECTURAL DRAWINGS FOR SLAB DEPRESSIONS. PITCH SLAB TO DRAIN WITHOUT REDUCING THICKNESS OF CONCRETE SECTION.
- PROVIDE CONSTRUCTION JOINTS IN EXPOSED WALLS AT A MAXIMUM SPACING OF 40FT. COORDINATE LOCATION OF JOINTS WITH ARCHITECTURAL DRAWINGS. PROVIDE CONSTRUCTION JOINTS IN UNEXPOSED WALLS AT A MAXIMUM SPACING OF 60FT.
- ALL JOINTS IN CONCRETE CONSTRUCTION SHALL BE KEVED WITH A MINIMUM 2X4 KEYWAY. PROPERLY CONSOLIDATE CONCRETE WHEN CASTING.
- DO NOT PLACE CONDUIT, PIPES, OR DUCTS WITHIN COLUMNS, BEAMS, WALLS, OR SLAB SYSTEMS WITHOUT APPROVAL FROM STRUCTURAL ENGINEER.

REINFORCING BARS:

- BAR DETAILING SHALL CONFORM TO THE LATEST AISC DETAILING MANUAL. PROVIDE COVER TO REINFORCEMENT AS LISTED IN ACI 318.
- STEEL SHALL BE AS FOLLOWS:
  - REBAR: ASTM A605, GR 60
  - WELDABLE REINFORCING: A706, GR 60
  - WELDED WIRE FABRIC: ASTM A185
- ALL FIELD BENDING OF REINFORCING SHALL BE DONE COLD. DO NOT HEAT REINFORCEMENT.
- BAR LAPS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE. STAGGER SPICES OF REINFORCING BY 24 INCHES AT ALTERNATE BARS.
  - BEAMS: JOIST TOP AND BOTTOM BARS - 40DB
  - COLUMN WALL VERTICAL BARS - 40DB
  - TIES - 3DB
- HOLD REINFORCING IN PLACE DURING CASTING OPERATIONS.

MASONRY

- HOLLOW CONCRETE MASONRY UNITS: NORMAL WEIGHT, F/M-200, MORTAR TYPE S, GROUT STRENGTH - 2000PSI.
- MASONRY CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSION OF ACI 530.1. SEE IRC 2018 FOR HOT AND COLD WEATHER PROCEDURES.
- CMU SHALL BE LAID IN A RUNNING-BOND PATTERN.
- PROVIDE BOND BEAMS WITH 2 #5 AT ALL FLOOR LINES, ROOF LINES, TOP OF WALL, AND AT 12'-0" O.C. MAXIMUM SPACING IN WALL.
- PROVIDE REINFORCING AT CENTER OF CORES OF CMU CONSTRUCTION, OR AS INDICATED ON STRUCTURAL DRAWINGS. HOLD REINFORCING IN PLACE DURING GROUTING OPERATIONS. FILL ALL REINFORCED CELLS WITH GROUT. FILL ALL CMU CELLS SOLID BELOW GRADE. SEE DRAWINGS FOR OTHER GROUTING. CONSOLIDATED GROUT.
- GROUT CELLS FLOOR-TO-FLOOR AT JAMBS OF OPENINGS.
- LAP BARS @ 8 BAR DIAMETERS, UNLESS NOTED OTHERWISE.
- PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. MAX SPACING PER SPECIFICATION.
- HIGH LIFT GROUTING WILL NOT BE PERMITTED WITHOUT AN APPROVED WRITTEN PROCEDURE SUBMITTED THROUGH THE ARCHITECT.
- USE GROUTED KEYWAYS OR PREMANUFACTURED JOINTS AT ALL CONTROL JOINTS.
- DO NOT PLACE CONDUIT, CHASES, OR OTHER EMBED ITEMS IN GROUTED CELLS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- LOCATE CONTROL JOINTS IN CMU AT A MAXIMUM SPACING OF 20FT, UNLESS NOTED OTHERWISE. LOCATE CONTROL JOINTS IN EXTERIOR MASONRY PER ARCHITECTURAL DRAWINGS.
- CONTINUE REINFORCING THROUGH CONTROL JOINTS. WIRE REBAR WITH BOND-BREAKING TAPE 2'-4" EACH SIDE OF JOINT. DO NOT SPLICE REINFORCING WITHIN 4FT OF JOINTS.
- ALL NON-LOAD BEARING CMU WALLS TO HAVE #5 REBAR GROUTED SOLID @ 48" O.C. U.N.O.

LINTELS:

- LINTELS SHALL BE PLACED ABOVE ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
- LINTELS NOT SHOWN ON THE CONSTRUCTION DRAWINGS SHALL BE AS FOLLOWS, FOR EVERY 4IN NOMINAL THICKNESS OF MASONRY:

SPAN:	LINTEL:
0'-2FT	1/2" PLATE, OR BOND BEAM WITH 2 #5
2FT-4FT	WT 4X9
4FT-6FT	L-5X3.5X1/4" LLV
6FT-8FT	L-5X3.5X1/4" LLV

BACK-TO-BACK ANGELS SHALL BE WELDED TOGETHER WITH 2" WELD AT 12" O.C.

- LINTELS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE AS FOLLOWS, FOR EVERY 6IN NOMINAL OF MASONRY THICKNESS (EG. 6" CMU):

SPAN:	LINTEL:
0'-2FT	1/2" PLATE, OR BOND BEAM WITH 1 #5
2FT-4FT	WT 4X9
4FT-6FT	WT 4X9
6FT-8FT	L-5X3.5X1/4" W/ BOT PL- 1/2"X5"

- STEEL LINTELS SHALL HAVE A MINIMUM OF 8" BEARING ON FULLY GROUTED CELL.
- GROUT ALL CMU CORES SOLID UNDER LINTEL BEARING, BEAMS AND BEARING PLATES.
- GALVANIZE ALL STEEL EXPOSED TO WEATHER.

STRUCTURAL STEEL:

- STEEL SHALL BE DETAILED, FABRICATED AND ERECTED PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIGDES.
- HIGH STRENGTH BOLTS SHALL BE INSTALLED PER AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.
- PROPERTIES:
  - ROLLED W-SHAPED MEMBERS: ASTM A992
  - STEEL TUBES: ASTM A500, GRADE B
  - STEEL PPES: ASTM A53, GRADE B
  - STEEL ANGLES, CHANNELS, PLATES: ASTM A36
  - ANCHOR BOLTS: ASTM A307
- SIMPLE SHEAR CONNECTIONS NOT FULLY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE SELECTED BY THE STEEL FABRICATOR FROM APPROPRIATE AISC LOAD TABLES USING END REACTION SHOWN ON PLANS. DOUBLE ANGLE, SINGLE ANGLE, OR WELDED SHEAR PLATE CONNECTIONS SHALL BE USED. BOLTED CONNECTIONS SHALL USE A MINIMUM OF 2 BOLTS.
- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE IN THAT TYPE OF JOINT. WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE. IN LIEU OF AWS WELDING CERTIFICATES, WELDERS EMPLOYED ON THE WORK MAY PROVIDE WELDING TESTS THAT HAVE BEEN PERFORMED WITHIN THE LAST 12 MONTHS.
- UNLESS NOTED OTHERWISE, WELDS SHALL BE 3/16" THICKNESS. ALL WELDS SHALL USE E70XX ELECTRODES.
- PAINT STEEL EXPOSED TO VIEW WITH MANUFACTURER'S STANDARD PRIMER. DO NOT PRIME STEEL RECEIVING FIRE-PROOFING, OR AT WELDS. IF STEEL MEMBERS ARE NOT EXPOSED TO VIEW, CONTRACTOR MAY ELECT TO NOT PRIME THIS STEEL. GALVANIZE ALL STEEL EXPOSED TO WEATHER.
- HEADED STEEL STUDS SHALL BE PLACED ON BEAMS IN FIELD, ARC-WELDED THROUGH METAL FLOOR DECK. SEE STUD REPLACEMENT DETAIL.
- DO NOT FIELD TORCH-OUT HOLES OR NOTCHES IN STEEL MEMBERS WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER.
- BOLTS SHOWN ON STRUCTURAL DRAWINGS SHALL BE 1/2" DIAM. A325-N BOLTS UNLESS NOTED OTHERWISE. USE TWIST-OFF TYPE BOLTS FOR CONNECTIONS REQUIRING FULLY TIGHTENED CONDITIONS.
- FURNISH AND INSTALL OTHER MISCELLANEOUS STEEL AS CALLED OUT OR REQUIRED BY ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- PROVIDE 5,000 PSI NON-SHRINK GROUT UNDER BASE PLATES AND BEARING PLATES WHERE INDICATED. ANCHOR BOLTS SHALL BE EMBEDDED 12 X (DIAM OF BOLT) MEASURED TO UNDERSIDE OF HEAD.

STEEL DECK:

- DESIGN, FABRICATE, DELIVER, AND ERECT METAL ROOF DECK, NON-COMPOSITE METAL DECK, AND COMPOSITE METAL DECK ACCORDING TO THE SPECIFICATIONS AND RECOMMENDATIONS OF THE STEEL DECK INSTITUTE (SDI).
- STEEL DECK PROPERTIES SHALL BE (AT MINIMUM), THOSE LISTED IN VULCRAFT CATALOGS FOR THE TYPE AND GAGE SHOWN ON THE DRAWINGS.
- STEEL DECK SHALL BE ATTACHED TO SUPPORTING STRUCTURE AS NOTED ON PLANS.
- USE WELD-WASHERS WHEN WELDING THROUGH DECK. POWDER DRIVEN FASTENERS, IF DESIRED FOR DECK ATTACHMENT, SHALL BE SUBMITTED FOR REVIEW.
- ROOF/FLOOR DECKING THAT WILL HAVE CONCRETE POURED ON TOP OF IT OR IS LOCATED IN AN AREA THAT WILL HAVE HIGH HUMIDITY SHALL BE GALVANIZED. FOR ALL OTHER INSTANCES THE DECKING SHALL BE PRIME-PAINTED.
- ROOF DECK AND NON-COMPOSITE DECK ENDS SHALL BE LAPPED 2" OVER SUPPORT. COMPOSITE DECK ENDS SHALL BE BUTTED OVER CENTER OF SUPPORT.
- PROVIDE HP AND VALLEY PLATES, ORDER FILLERS, END CLOSERS, CANT STRIPS, SLUMP PANS, EDGE FORMS AND OTHER ACCESSORIES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS, OR AS NEEDED TO PROVIDE A COMPLETE DECK SYSTEM SHOWN ON THE DRAWINGS.
- SUPPORT DECK AT SLUMP PANS AND OTHER ROOF DECK OPENINGS. SEE DETAILS.
- HANG LOADS FROM STEEL BEAMS AND JOISTS WHENEVER POSSIBLE. PROVIDE UNISTRUT, ANGLES, OR TUBES TO ACCOMMODATE THIS. DO NOT HANG ANY LOADS FROM ROOF DECK OR NON-COMPOSITE DECK. LOADS LESS THAN 10LBS MAY BE HUNG FROM CURED, COMPOSITE DECK. RESPONSIBILITY FOR DESIGN OF MEP SUPPORT SYSTEMS WILL BE WITH THE CONTRACTOR.

STEEL JOISTS:

- DESIGN, FABRICATE, DELIVER, AND ERECT OPEN WEB STEEL JOISTS, JOIST GIRDERS, AND ACCESSORIES ACCORDING TO THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
- THE BASIS OF DESIGN FOR JOIST SIZES SHOWN ON THE DRAWINGS IS PER VULCRAFT DESIGN CATALOG. SPECIAL JOIST PRELIMINARY SIZES SHOWN ARE BASED ON SNOW DRIFT AND MECHANICAL LOADS SHOWN ON DOCUMENTS.
- PROVIDE BRIDGING, EXTENDED ENDS, SLOPED BEARINGS, CEILING EXTENSIONS AND OTHER ACCESSORIES AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- BRIDGINGS SHOWN ON DRAWINGS SHALL BE USED FOR ESTIMATING ONLY. FINAL SIZE, CONFIGURATION, AND QUANTITY OF BRIDGING SHALL BE DETERMINED BY THE JOIST MANUFACTURER. UPLIFT BRIDGING MAY BE REQUIRED- SEE DRAWINGS.
- WHERE BRIDGING INTERFERES WITH MECHANICAL DUCTWORK OR PIPING, BRIDGING MAY BE REMOVED AFTER ROOF DECK ATTACHMENT. NOTIFY STRUCTURAL ENGINEER OF LOCATIONS PRIOR TO REMOVAL.
- PAINT JOISTS WITH MANUFACTURER'S STANDARD RUST-INHIBITING PRIMER. JOISTS TO RECEIVE FIRE-PROOFING ARE NOT TO BE PAINTED.
- TO AID IN BEARING SEAT DESIGN FOR JOISTS, IF JOIST MANUFACTURER WOULD LIKE TO STAGGER JOISTS ON EITHER SIDE OF A SUPPORT, THIS SHALL BE SUBMITTED FOR APPROVAL ON THE SHOP DRAWINGS.
- JOISTS BEARING ABOVE A COLUMN LINE SHALL HAVE ERECTION BOLTS IN THE BEARING SEAT. BOTTOM CHORDS SHALL BE ALSO EXTENDED TO THE FACE OF THE COLUMN.
- JOISTS SHALL BE WELDED TO SUPPORTS, TYPICAL.
- LIGHT-WEIGHT MECHANICAL DUCTS, CONDUIT, AND CEILING MAY BE HUNG AT ANY POINT ALONG THE JOIST BOTTOM OR TOP CHORD.
- LOADS GREATER THAN 10LBS SHALL BE HUNG WITHIN 6" OF TOP AND BOTTOM CHORD POINTS. LOADS HUNG OUTSIDE THIS RANGE SHALL HAVE ADDED BRACING TO NEAREST CHORD POINT, AS SHOWN ON THE DETAILS.

LIGHT GAGE STEEL:

- LIGHT GAGE STEEL DESIGN, DETAILING AND ERECTION SHALL FOLLOW STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) GUIDELINES.
- LIGHT GAGE CALLED OUT ON THE DRAWINGS SHALL HAVE A MINIMUM PROPERTIES CALLED OUT IN THE LATEST EDITION OF SSMA PRODUCT TECHNICAL INFORMATION.
- END TRACK GAGE SHALL MATCH WALL STUD GAGE. ALIGN STUDS BELOW STRUCTURAL MEMBERS ABOVE. PROVIDE FULL BEARING OF WALL STUDS TO TOP AND BOTTOM TRACK. STUDS SHALL NOT HAVE PUNCH-OUT LOCATED AT ENDS OF STUDS.
- PROVIDE TRACK, BRIDGING, BLOCKING, HEADERS, CLIP-ANGLES, SLIDE CLIPS, FASTENERS AND OTHER ACCESSORIES AS NEEDED TO SUPPLY A COMPLETED LIGHT-GAGE SYSTEM AS SHOWN ON THE DRAWING.
- PROVIDE BRIDGING AT 4'-0" O.C. MAXIMUM SPACING IN BEARING SHEAR AND EXTERIOR WALLS. PROVIDE FULL DEPTH BLOCKING AT ALL SHEAR PANEL EDGES.
- SCREW SHEATHING FOR FLOORS WITH #8 SCREWS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD. STAGGER EDGES OF PANELS.
- SCREW SHEATHING FOR WALLS PER MANUFACTURER SPECIFICATIONS.
- PROVIDE 2 FULL HEIGHT STUDS AT JAMBS OF OPENINGS, UNLESS NOTED OTHERWISE.
- ALL WELDED CONNECTIONS SHALL BE DONE BY PERSONNEL CERTIFIED IN LIGHT-GAGE WELDING.

SUBMITTALS:

- THE FOLLOWING STRUCTURAL COMPONENTS OF THE BUILDING WILL REQUIRE SHOP DRAWINGS AND/OR MIX DESIGNS TO BE SUBMITTED BY THE CONTRACTOR/SUPPLIER TO THE ENGINEER OF RECORD FOR REVIEW BEFORE FABRICATION.
  - CONCRETE MIX DESIGNS
  - CMU MIX DESIGNS
  - GROUT MIX DESIGNS
  - CONCRETE AND CMU REINFORCING SHOPS
  - STRUCTURAL STEEL FRAMING SHOPS
  - STEEL JOIST SHOPS
  - METAL DECKING DECK SHOPS

DELEGATED DESIGNS:

- DESIGN ITEMS THAT HAVE BEEN DELEGATED WILL REQUIRE THE CONTRACTOR/SUPPLIER TO PROVIDE SHOP DRAWINGS AND CALCULATIONS TO THE ENGINEER OF RECORD THAT HAVE BEEN SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED.
  - THE DESIGN OF DELEGATED STRUCTURAL ITEMS MAY BE DEFERRED UNTIL AFTER A BUILDING PERMIT HAS BEEN ISSUED.
  - THE DESIGN OF THE FOLLOWING STRUCTURAL COMPONENTS OF THE BUILDING HAVE BEEN DELEGATED TO THE CONTRACTOR/SUPPLIER.
    - STRUCTURAL STEEL CONNECTIONS AND/OR STEEL STAIRS, GUARD RAILS, & HANDRAILS

Sheet List	
S001	STRUCTURAL NOTES & SCHEDULES
S002	STRUCTURAL SCHEDULES
S101	FOOTING & FOUNDATION PLAN
S201	SECOND FLOOR FRAMING PLAN
S202	MECHANICAL PENETRATION FLOOR FRAMING PLAN
S301	ROOF FRAMING PLAN
S401	OPERABLE PARTION FRAMING - ALT#9
S402	SOUTH CONNECTOR PLANS - ALT#13
S403	SOUTH CONNECTOR PLANS - ALT#14
S501	ENLARGED FRAMING PLANS
S601	STRUCTURAL DETAILS
S602	STRUCTURAL DETAILS
S603	STRUCTURAL DETAILS
S604	STRUCTURAL DETAILS
S605	STRUCTURAL DETAILS
S606	STRUCTURAL DETAILS
S607	STRUCTURAL DETAILS
S608	STRUCTURAL DETAILS
S609	STRUCTURAL DETAILS
S610	STRUCTURAL DETAILS

ABBREVIATIONS			
ACI	AMERICAN CONCRETE INSTITUTE	JST	JOIST
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	JT	JOINT
ANCH	ANCHOR	K	KIP
ARCH	ARCHITECT	KLF	KIP PER LINEAL FOOT
BLDG	BUILDING	KSF	KIP PER SQUARE FOOT
BLKG	BLOCKING	LG	LIFT GAGE STEEL
BM	BEAM	LL	LIVE LOAD
BOF	BOTTOM OF FOOTING	LLH	LONG LEG HORIZONTAL
BOS	BOTTOM OF STEEL	LLV	LONG LEG VERTICAL
BOT	BOTTOM	LOC	LOCATION, LOCATE
BRG	BEARING	MAX	MAXIMUM
BSMT	BASEMENT	MEZZ	MEZZANINE
BTB	BACK-TO-BACK	MIN	MINIMUM
CANT	CANTILEVER	MTL	METAL
CFS	COLD FORMED STEEL	NIC	NOT IN CONTRACT
CL	CENTERLINE	NLB	NON-LOAD BEARING
CLR	CLEAR	NWT	NORMAL WEIGHT
CMU	CONCRETE MASONRY UNIT	NO	NUMBER
COL	COLUMN	NTS	NOT TO SCALE
CONC	CONCRETE	OC	ON CENTER
CONN	CONNECTION	OD	OUTSIDE DIAMETER
CONST	CONSTRUCTION	PC	PRECAST
CONT	CONTINUOUS	PL	PLATE
DBL	DOUBLE	PSF	POUNDS per SQUARE FOOT
DTL	DETAIL	PSI	POUNDS per SQUARE INCH
DIA	DIAMETER	QTY	QUANTITY
DIAG	DIAGONAL	REC	RECESSED
DIM	DIMENSION	REINF	REINFORCEMENT
DL	DEAD LOAD	REF	REFERENCE
DWG	DRAWING	REV	REVISION
EA	EACH	SCHED	SCHEDULE
EL	ELEVATION	SDI	STEEL DECK INSTITUTE
EMB	EMBEDDED, EMBEDMENT	SOL	SUPERIMPOSED DEAD LOAD
EOR	ENGINEER OF RECORD	SECT	SECTION
EQ	EQUAL	SIM	SIMILAR
EXIST	EXISTING	SJI	STEEL JOIST INSTITUTE
EXP	EXPANSION	SPA	SPACES, SPACING
EXT	EXTERIOR	STD	STANDARD
FND	FOUNDATION	STL	STEEL
FFE	FINISHED FLOOR ELEVATION	STRUCT	STRUCTURAL
FLR	FLOOR	T&B	TOP & BOTTOM
FTG	FOOTING	TOP	TOP OF FOOTING
G	GAGE	TOS	TOP OF STEEL
G	GAGE	TOW	TOP OF WALL
GALV	GALVANIZED	TPI	TRUSS PLATE INSTITUTE
GC	GENERAL CONTRACTOR	TRANS	TRANSVERSE
HVC	HOLLOWCORE	TYP	TYPICAL
HDR	HEADER	UNO	UNLESS NOTED OTHERWISE
HORIZ	HORIZONTAL	VAR	VARIABLE
HSS	HOLLOW STRUCTURAL TUBE	VERT	VERTICAL
IBC	INTERNATIONAL BUILDING CODE	WD	WOOD
INSUL	INSULATION	WWF	WELDED WIRE FABRIC

**AndersonMasonDale Architects**

Architect of Record  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-224-4852  
E-mail: tom@co-oparch.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-224-4852  
E-mail: lucash@helmsengineering.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57108  
Telephone: 605-224-1212  
E-mail: jchrstensen@riseincorp.com

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-224-1349  
E-mail: thomas.hen@imegcorp.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-294-1205  
E-mail: lpa@confluence.com

**Mech & Plumbing Engineer**  
Sichmeller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota



WALL FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
TS1	2'-0" x 1'-0"	(2) #5 CONT.
WF1	2'-0" x 1'-0"	(2) #5 CONT.
WF3	2'-0" x 1'-0"	(3) #5 CONT.
WF4	4'-0" x 1'-0"	REF. DTL.

COLD-FORMED HEADER SCHEDULE					
MARK	HEADER	JAMB STUDS	BRG.	SILL	REMARKS
H1	600S162-43	(1) 600S162-68	NONE	(1) 600T125-43 WHERE OCCURS	2, 3, 4.
H2	600S200-68	(2) 600S162-54 BACK-TO-BACK	NONE	(1) 600T125-43 WHERE OCCURS	2, 4.
H3	(2) 600S162-43 BOX HEADER W/ 600T125-43 TOP & BOT.	(2) 600S200-68 BACK-TO-BACK	NONE	(1) 600T125-43 WHERE OCCURS	1, 4.

NOTES:  
1. SEE 8/S606 FOR BOX HEADER ASSEMBLY & JAMB CONNECTION.  
2. SEE 7/S606 FOR SINGLE MEMBER HEADER ASSEMBLY & JAMB CONNECTION.  
3. SEE 8/S606 FOR SILL CONNECTION TO JAMB.  
4. SEE 8/S606 FOR MULTIPLE STUD CONNECTION DETAIL.

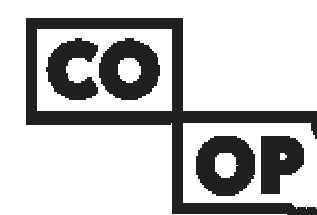
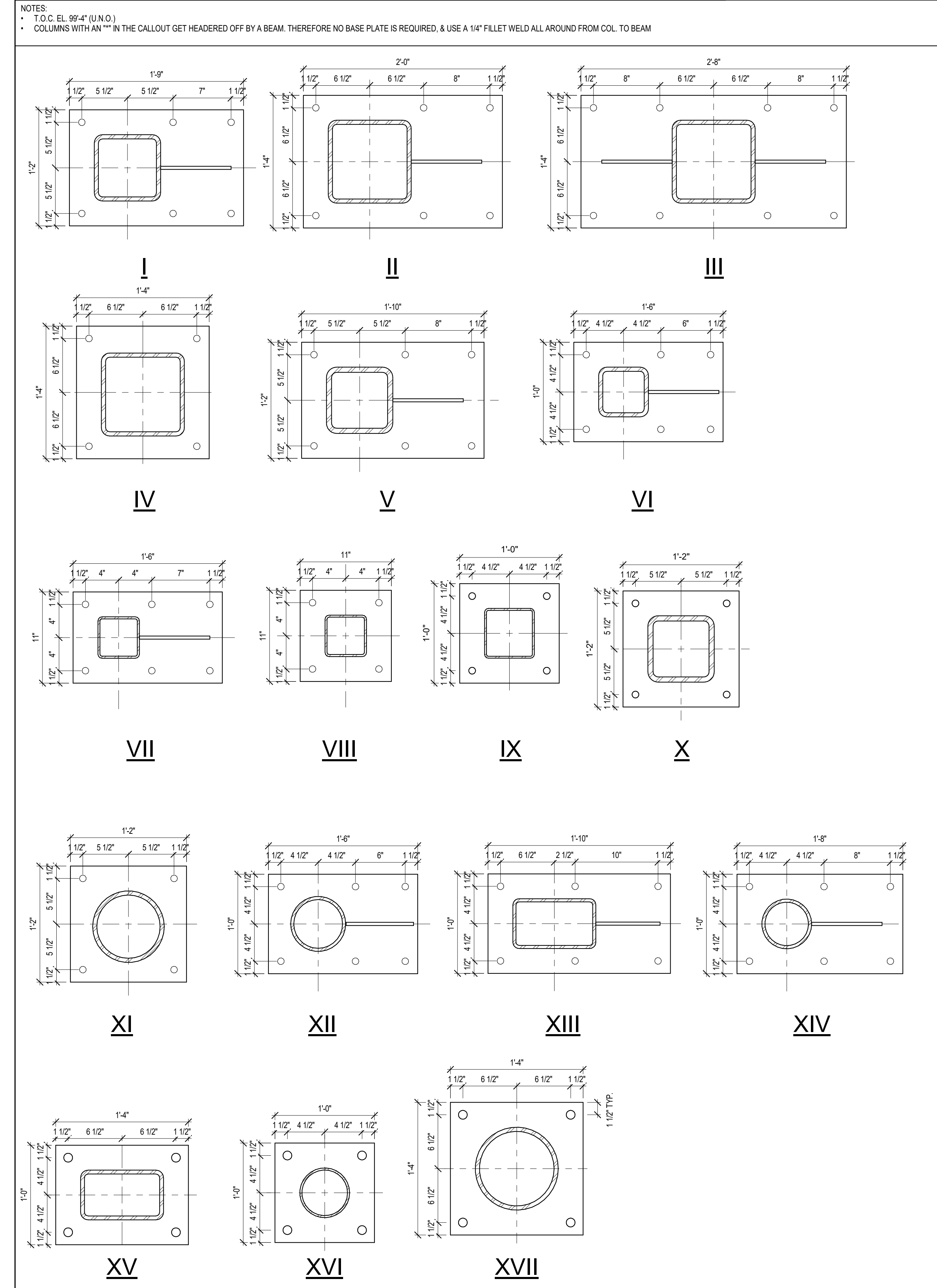
PIER SCHEDULE				
MARK	SIZE	VERT. REINF.	TIES	T/PIER
P1	18" x 18"	(4) #6	#4 @ 12" O.C.	99'-4"
P2	18" x 24"	(8) #6	#4 @ 12" O.C.	99'-4"
P3	18" x 28"	(8) #6	#4 @ 12" O.C.	99'-4"
P4	18" x 36"	(12) #6	#4 @ 12" O.C.	99'-4"
P5	24" x 24"	(8) #6	#4 @ 12" O.C.	99'-4"

LINTEL SCHEDULE				
	OPENING TYPE	LINTEL	DETAIL	REMARKS
L-1	12" CMU	SINGLE 16" DP. BOND BEAM w/ (2) #5 BOTT., (2) #5 TOP, #4 TIES @ 12" O.C.		
L-2	8" CMU	SINGLE 16" DP. BOND BEAM w/ (2) #5 BOTT., (2) #5 TOP, #4 VERT. @ 12" O.C.		

NOTES:  
1. PROVIDE MIN. 8" BEARING ON BLOCK AT ALL LINTELS.

PAD FOOTING SCHEDULE		
MARK	SIZE	REINFORCEMENT
F	11'-3" x 13'-2" @ 1'-0"	(3) #5/2-6" EA. WAY
F1	3'-0" x 3'-0" x 1'-0"	(3) #5/2-6" EA. WAY
F2	4'-0" x 4'-0" x 1'-0"	(5) #5/4-6" EA. WAY
F3	5'-0" x 5'-0" x 1'-0"	(6) #5/4-6" EA. WAY
F4	6'-0" x 6'-0" x 1'-0"	(7) #5/5-6" EA. WAY
F5	7'-0" x 7'-0" x 1'-4"	(8) #5/5-6" EA. WAY
F6	8'-0" x 8'-0" x 1'-4"	(9) #5/7-6" EA. WAY
F7	9'-0" x 9'-0" x 1'-4"	(11) #5/8-6" EA. WAY

COLUMN SCHEDULE					
MARK	TYPE	BASEPLATE		ANCHOR BOLTS	REMARKS
		THICKNESS	DIAGRAM		
C1	HSS 6X6X5/8	1 3/8"	I	(4) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C2	HSS 6X6X1/2	1 3/8"	I	(4) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C3	HSS 10X10X1/2	2"	II	(8) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C4	HSS 10X10X5/8	2"	III	(8) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C5	HSS 10X10X1/2	2"	IV	(4) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C6	HSS 6X6X5/8	1 3/8"	V	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C7	HSS 6X6X1/4	1 3/8"	VI	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C8	HSS 6X6X5/8	1 3/8"	VI	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C9	HSS 5X5X1/4	1 3/8"	VII	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C10	HSS 5X5X3/8	1 3/8"	VII	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C11	HSS 5X5X1/4	1"	VIII	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C12	HSS 5X5X3/8	1"	VIII	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C13	HSS 5X5X1/2	1"	VIII	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C14	HSS 6X6X3/8	1 1/4"	IX	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C15	HSS 6X6X1/2	1 1/4"	IX	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C16	HSS 6X6X1/4	1"	IX	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C17	HSS 6X6X5/8	1 1/4"	X	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C18	HSS 6X6X1/4	1"	X	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C19	HSS8.625X.5	1 3/8"	XI	(4) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C20	HSS8.625X.375	1 3/8"	XII	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C21	HSS10X6X1/2	1 3/8"	XIII	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C22	HSS8X.375	1 3/8"	XIV	(6) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C23	HSS10X6X1/2	1 1/4"	XV	(4) 1" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X3/8" PLATE WASHERS	
C24	HSS6X.25	1"	XVI	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C25	HSS8.625X.25	1"	XI	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C26	HSS8.625X.375	1 1/4"	XI	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	
C27	HSS10X.5	1 1/4"	XVII	(4) 3/4" DIA. THREADED RODS EMBEDDED 9" INTO CONC. USE 3"X1/4" PLATE WASHERS	



AndersonMasonDale Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-226-4852  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-291-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-226-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57106  
Telephone: 605-259-1205  
FAX: 605-259-1205  
E-mail: lpudwill@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-226-1340  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-5344  
E-mail: traviss@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1340  
E-mail: thomas.hernz@imegcorp.com

Seal Issue Date  
100% CD 09 APRIL 2024

4/9/2024

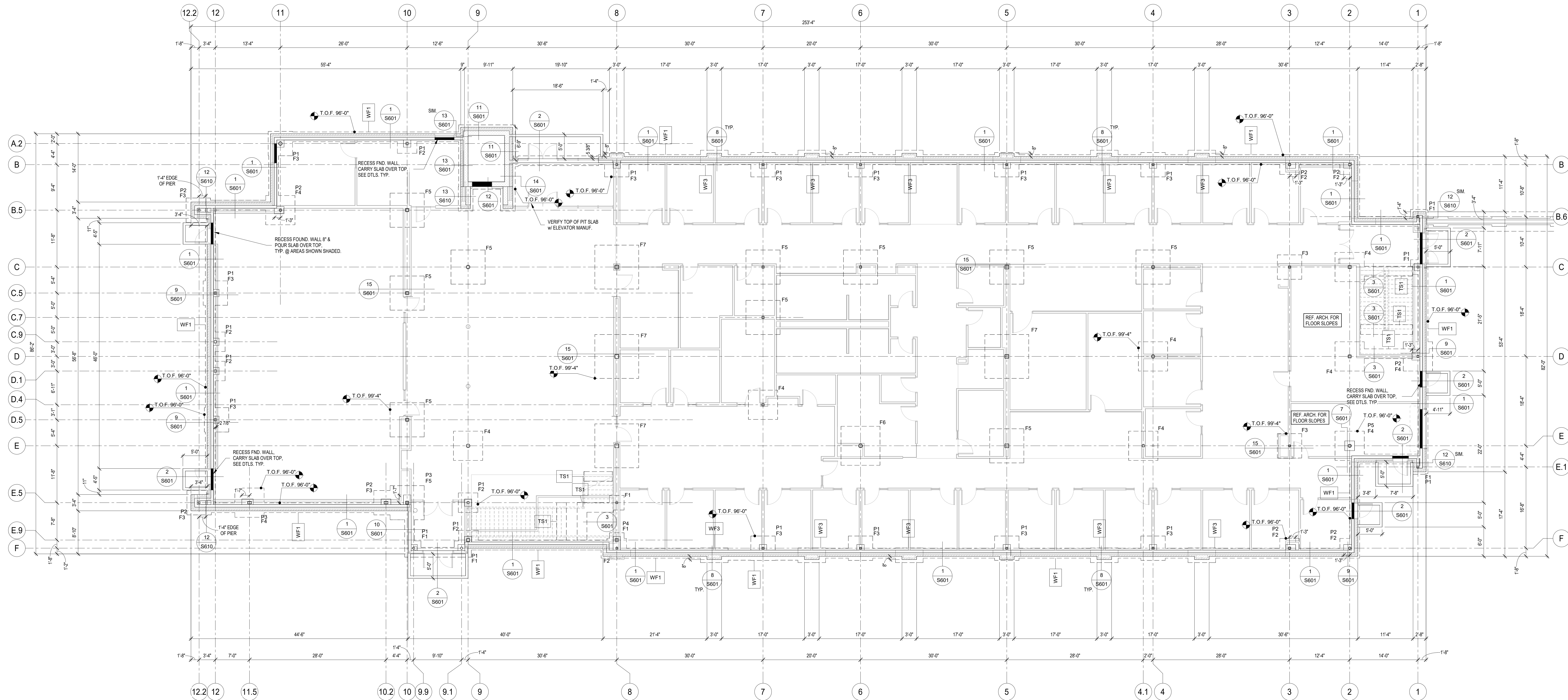
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1203 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JC

STRUCTURAL SCHEDULES

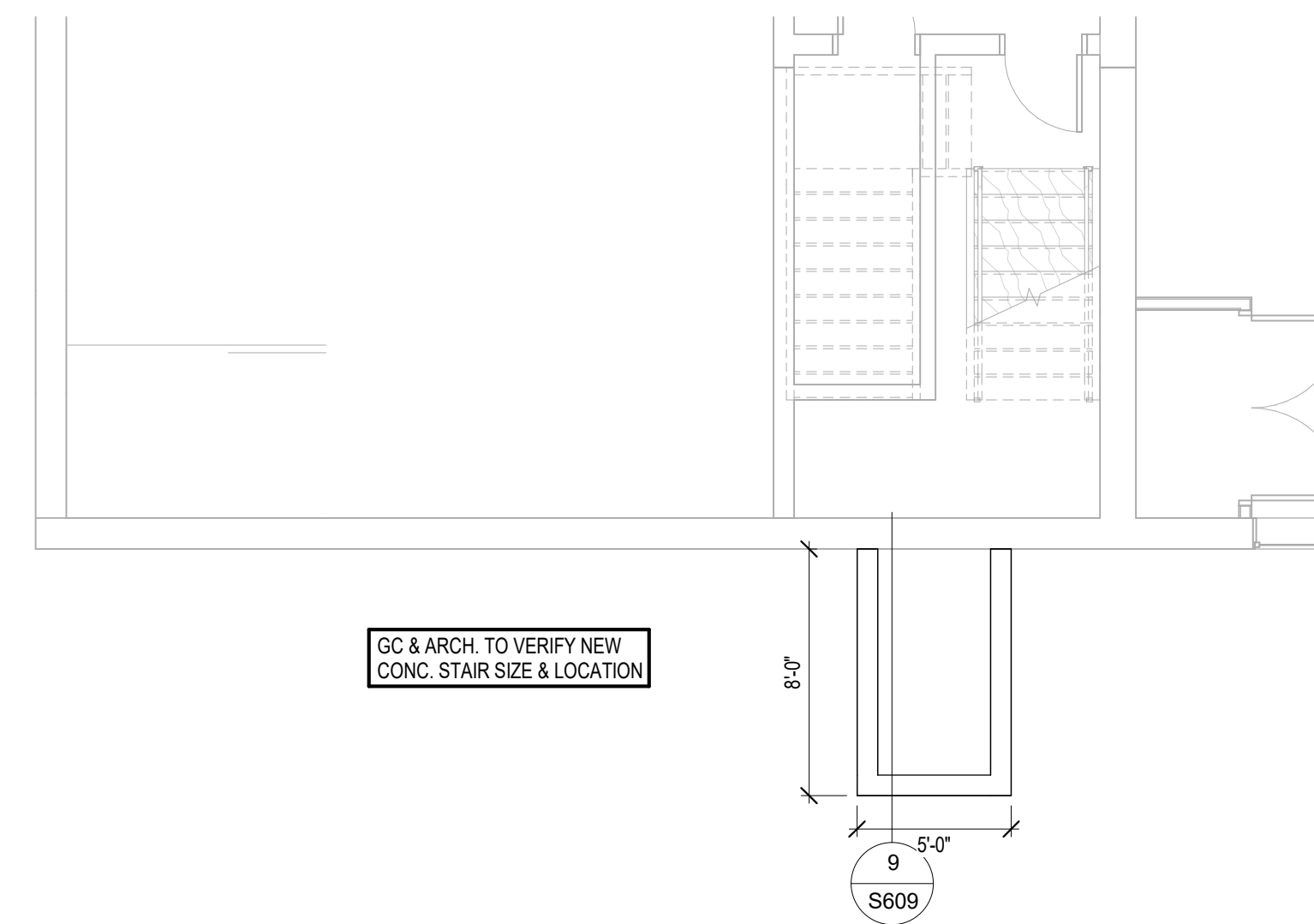
S002





**1 FOOTING & FOUNDATION PLAN**  
 1/8" = 1'-0" F.F.E. = 100'-0"

- NOTES:
- CONC. SLAB TO BE 4" w/ FIBERMESH REINFORCEMENT ON VAPOR BARRIER (REF. ARCH.) ON 6" DRAINAGE FILL ON APPROVED SUBGRADE.
  - CONTRACTOR TO SUBMIT CONTROL JOINT LAYOUT FOR ARCH./ENGINEER APPROVAL.
  - SEE STRUCTURAL NOTES FOR SIZING/SPACING LIMITATIONS.
  - SEE 4 & 5 ON SHEET S401 FOR TYPICAL CONTROL JOINT DETAILS.
  - SEE 6/S401 FOR TYPICAL CORNER WALL REINFORCING.



**2 GRAHAM HALL CONC. STAIR REPLACEMENT**  
 3/16" = 1'-0"

4/9/2024 4:27:49 PM



**Architect of Record**  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-224-4852  
 E-mail: tom@co-oparch.com

**Associate Architect**  
 AndersonMasonDale Architects, P.C.  
 3198 Speer Boulevard  
 Denver, CO, 80211  
 Telephone: 303-294-9448  
 FAX: 303-294-0762  
 E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-225-1212  
 E-mail: lucash@helmsengineering.com

**Landscape Architect**  
 Confluence  
 524 N Main Ave, Suite 201  
 Sioux Falls, SD 57105  
 Telephone: 605-259-1205  
 E-mail: lbudwill@thinkconfluence.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57106  
 Telephone: 605-225-1340  
 E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
 Sichmoller Engineering  
 801 railroad Ave SE  
 Aberdeen, South Dakota 57401  
 Telephone: 605-225-0344  
 E-mail: travis@siceng.biz

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-225-1340  
 E-mail: thomas.hernz@imegcorp.com

Seal Issue Date  
 100% CD 09 APRIL 2024



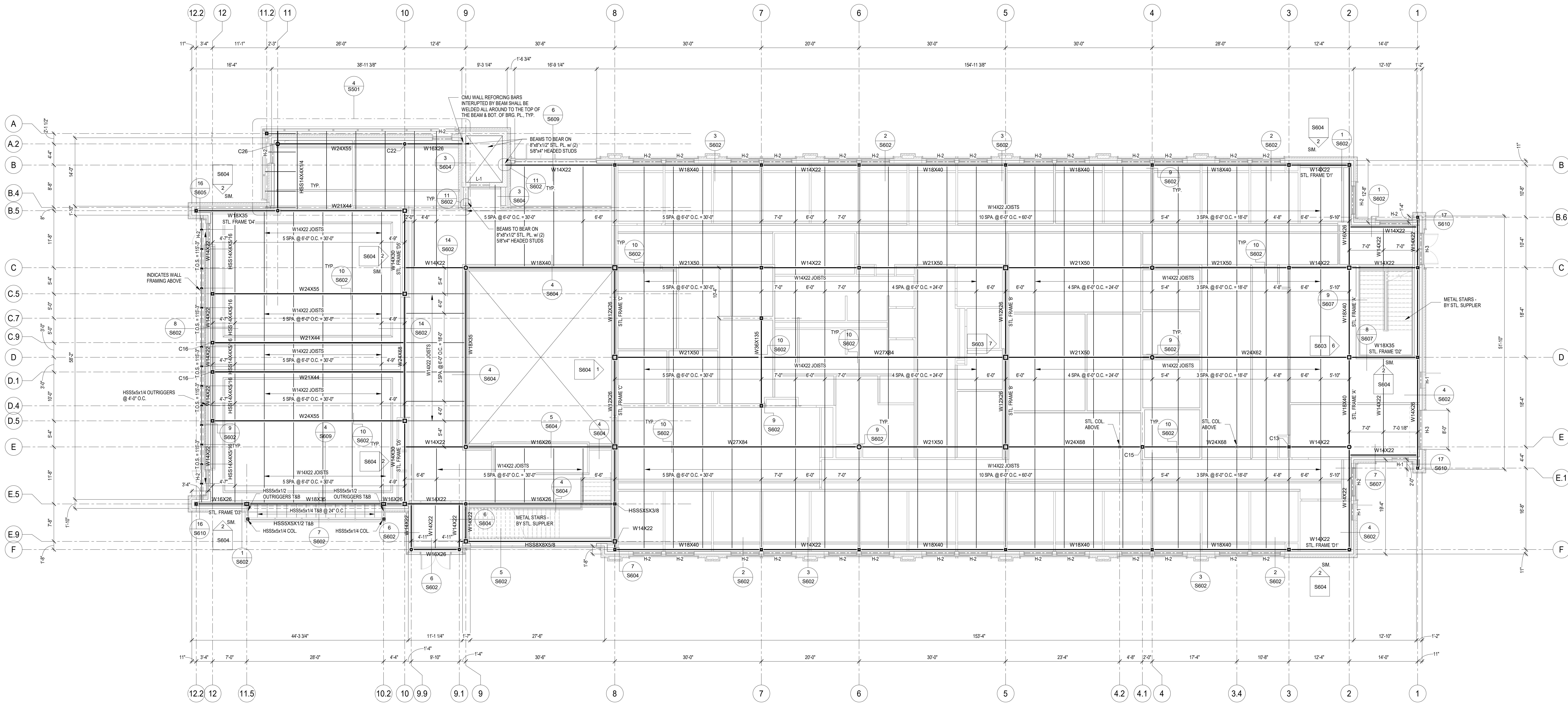
**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261  
**Notern State University**  
 1203 S Jay St  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

Project Number: 21-261  
 Drawn By: CRC  
 Reviewed By: JGM  
 Approved By: JUC

**FOOTING & FOUNDATION PLAN**

**S101**





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

- NOTES:
- EXTERIOR WALLS TO BE 600S162-43 @ 16" O.C. w/ BRIDGING @ 48" O.C.
  - T.O.S. = 115'-0" (UNLESS NOTED OTHERWISE)
  - 2-1/2" CONC. SLAB ON 1.5WU 20 GA. COMPOSITE DECK (4" OVERALL) REINF. SLAB w/ 6XW1.4W1.4 W.W.F.
  - STEEL DECK TO BE FASTENED IN A 36x4 PATTERN w/ 5/8" DIA. PUDDLE WELDS & #12 SIDE LAP FASTENERS SCREWS @ 24" O.C.
  - ALL STEEL FLOOR BEAMS w/ COMPOSITE DECK TO HAVE 3/4" DIA. x 2-1/2" HAS'S WELDED TO THE TOP FLANGE @ 12" O.C. MAX.
  - USE L4x4x5/16 ANGLE TO FORM OUT ALL OPENINGS IN THE CONC. ON MTL. DECK FLOOR WHERE REQ.

4/9/2024 4:27:54 PM



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-294-9482  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-294-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-294-1205  
E-mail: lpudwil@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-294-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-294-3344  
E-mail: traviss@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-294-1349  
E-mail: thomas.henz@imegcorp.com

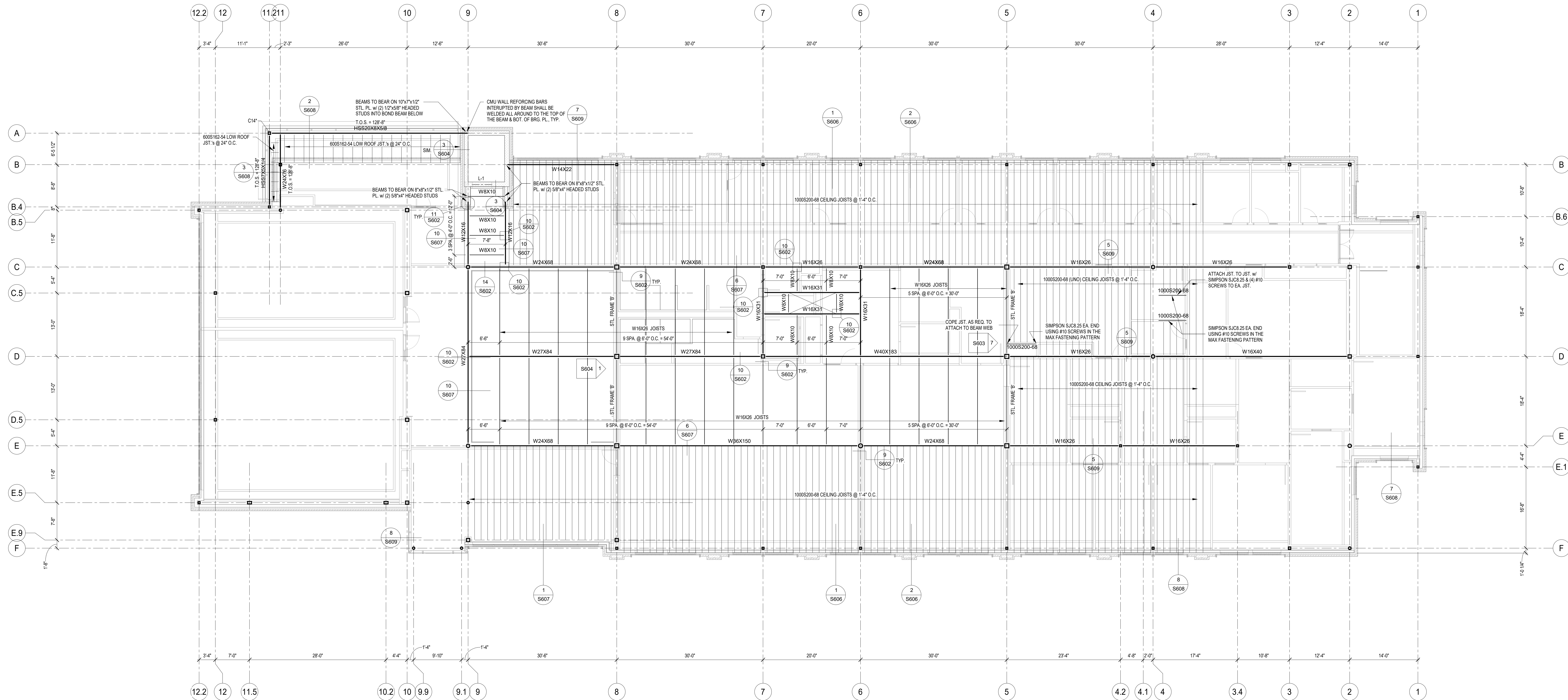
Seal Issue Date  
100% CD 09 APRIL 2024

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1303 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

**SECOND FLOOR FRAMING PLAN**  
**S201**





**1 MECHANICAL PENTHOUSE FLOOR FRAMING PLAN**

- 1/8" = 1'-0"
- NOTES:
- EXTERIOR WALLS TO BE 80S162-43 @ 16" O.C. w/ BRIDGING @ 48" O.C.
  - T.O.S. = 10'-0" (UNLESS NOTED OTHERWISE)
  - 2-1/2" CONC. SLAB ON 1.5WU 20 GA. COMPOSITE DECK (4" OVERALL MINIMUM) REIN. SLAB w/ #6-W1.4W1.4 W.W.F.
  - ALL STEEL FLOOR BEAMS w/ COMPOSITE DECK TO HAVE 3/4" DIA. x 2-1/2" HAS'S WELDED TO THE TOP FLANGE @ 12" O.C. MAX.
  - ROOF DECKING @ LG TRUSSES OR JST'S TO BE 1.5822GA. w/ #14 SCREWS IN A 347 PATTERN & #10 SIDE LAP SCREWS @ 12" O.C.
  - LG CEILING JOISTS MAY BE INSTALLED WITH SHEATHING ON THEIR TOP SIDES FOR ACCESS TO MECHANICAL AREAS. FOR THIS REASON THE LG JST'S HAVE BEEN DESIGNED TO WITHSTAND A 10PSF DEAD LOAD AND A 40PSF LIVE LOAD
  - REF ARCH. & MECH. FOR FLOOR SLOPES & EQUIPMENT PADS
  - USE L44X9/16 ANGLE TO FORM OUT ALL OPENINGS IN THE CONC. ON MTL. DECK FLOOR WHERE REQ.

4/9/2024 4:27:57 PM



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4952  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57106  
Telephone: 605-259-1205  
E-mail: ptudwil@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-225-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-3344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.henz@imegcorp.com

Seal	Issue	Date
	100% CD	09 APRIL 2024

4/9/2024

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1200 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

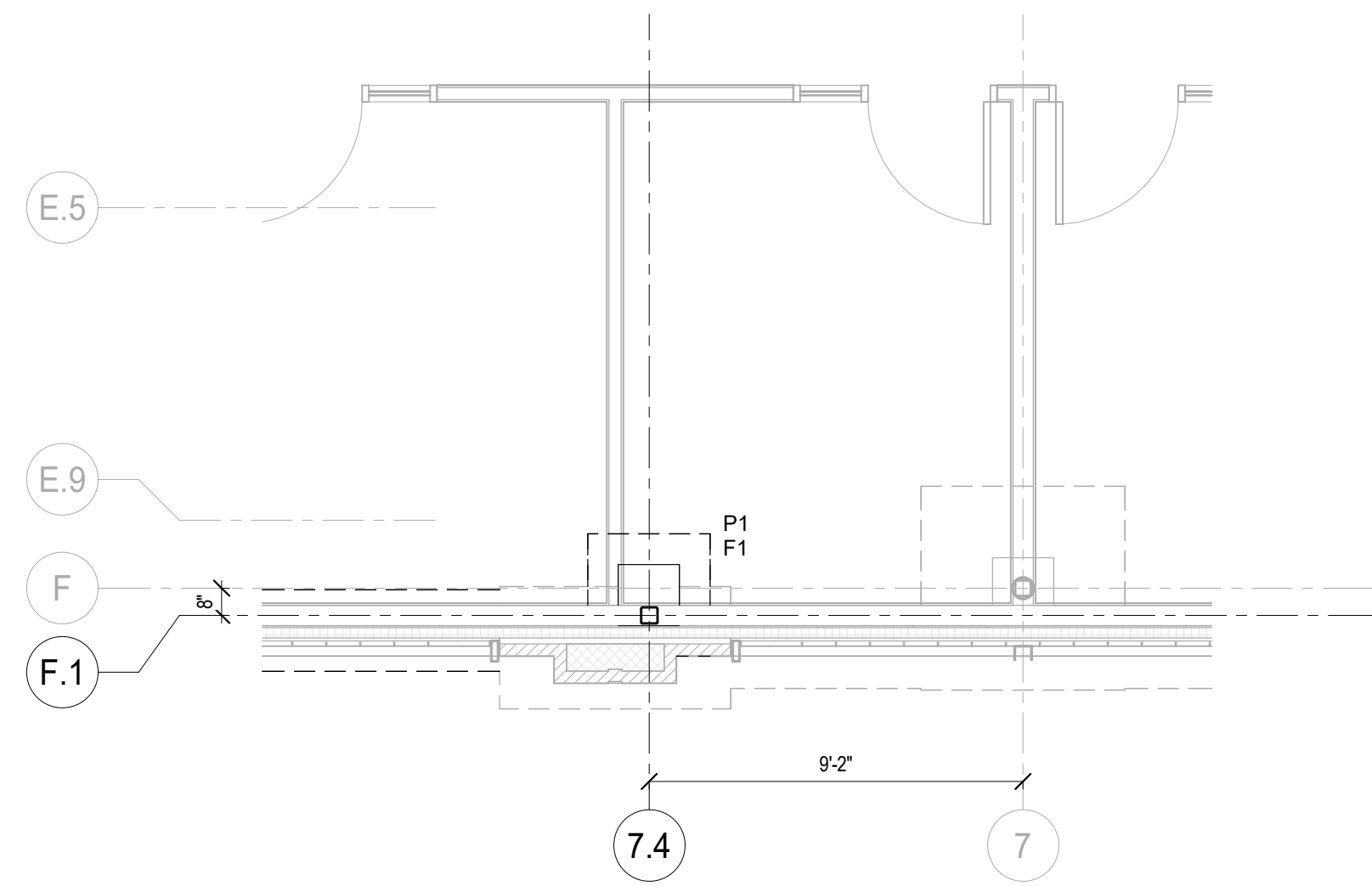
**MECHANICAL PENTHOUSE FLOOR FRAMING PLAN**

**S202**

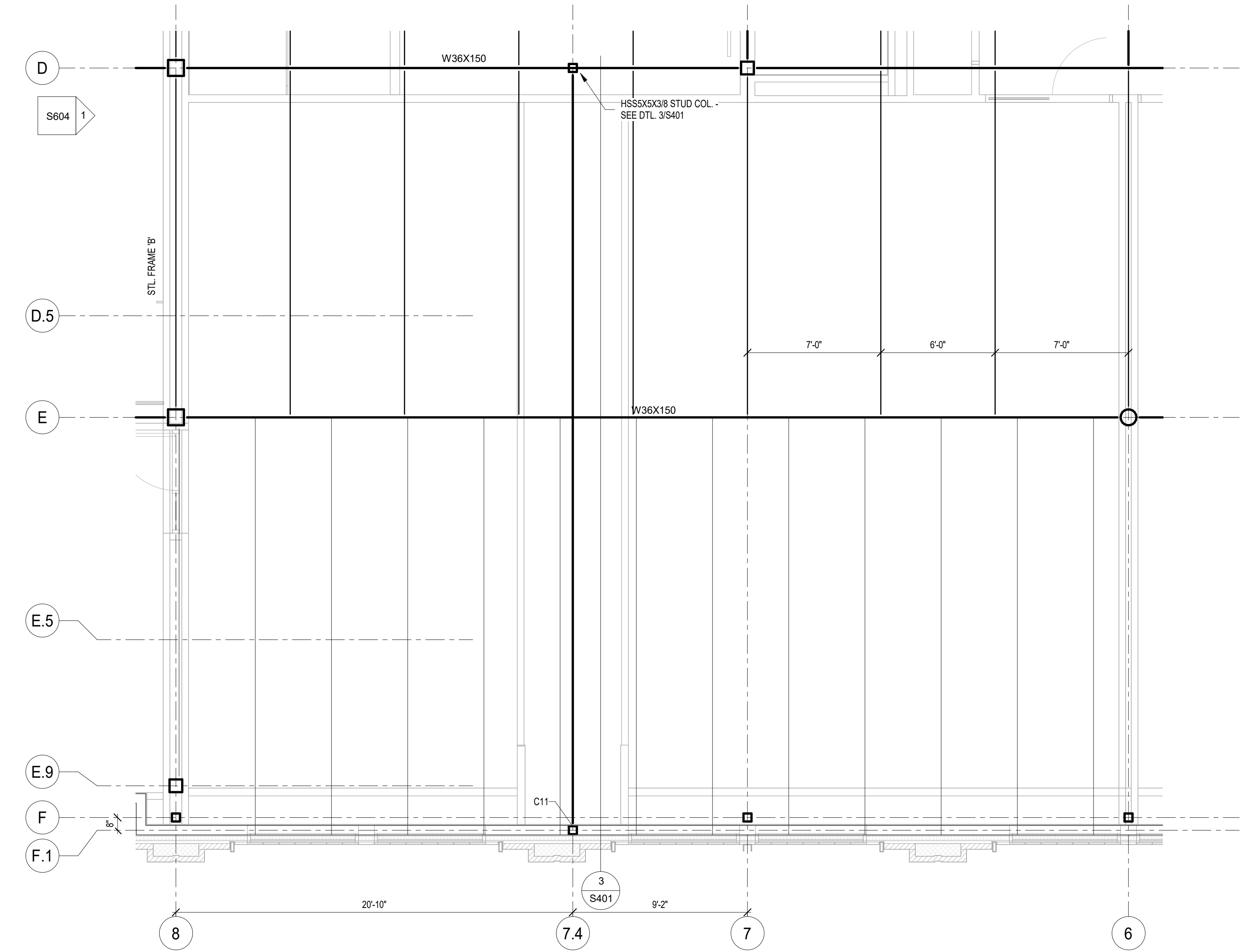




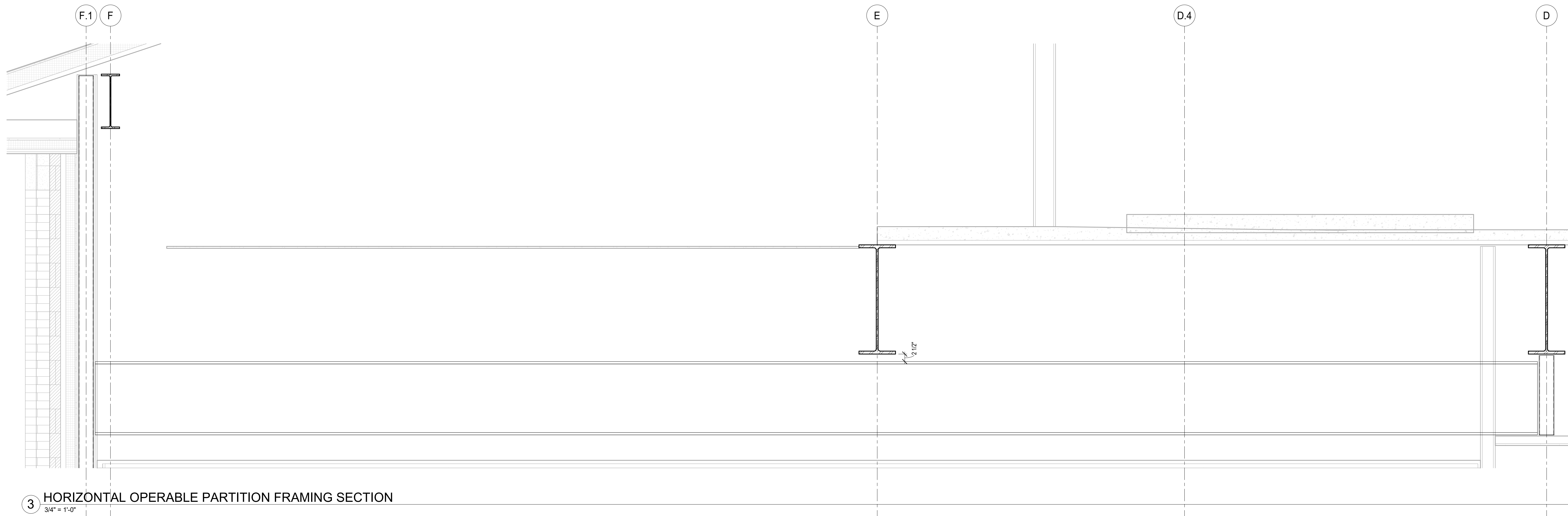




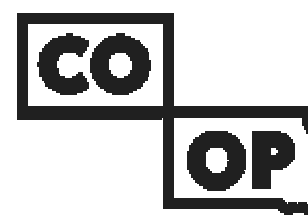
1 FOOTING & FOUNDATION PLAN - HORIZONTAL OPERABLE PARTITION FRAMING RM. 212 - ALT #9  
1/4" = 1'-0"



2 HORIZONTAL OPERABLE PARTITION FRAMING RM. 212 - ALT #9  
1/4" = 1'-0"



3 HORIZONTAL OPERABLE PARTITION FRAMING SECTION  
3/4" = 1'-0"



AndersonMasonDale  
Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4852  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-339-1205  
E-mail: lpudwil@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-343-2310  
E-mail: jchristensen@riseincorp.com

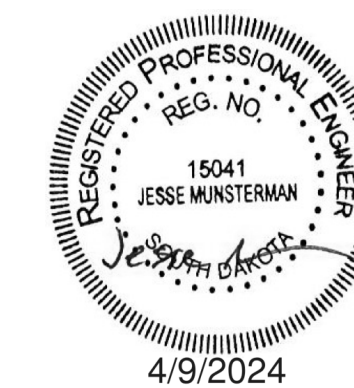
**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-3344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.j.henz@imegcorp.com

Seal

Issue

Date



100% CD

09 APRIL 2024

**LINCOLN HALL**

12th Ave SE, Aberdeen, SD 57401  
21-261

**Northern State University**

1303 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261

Drawn By: CRC

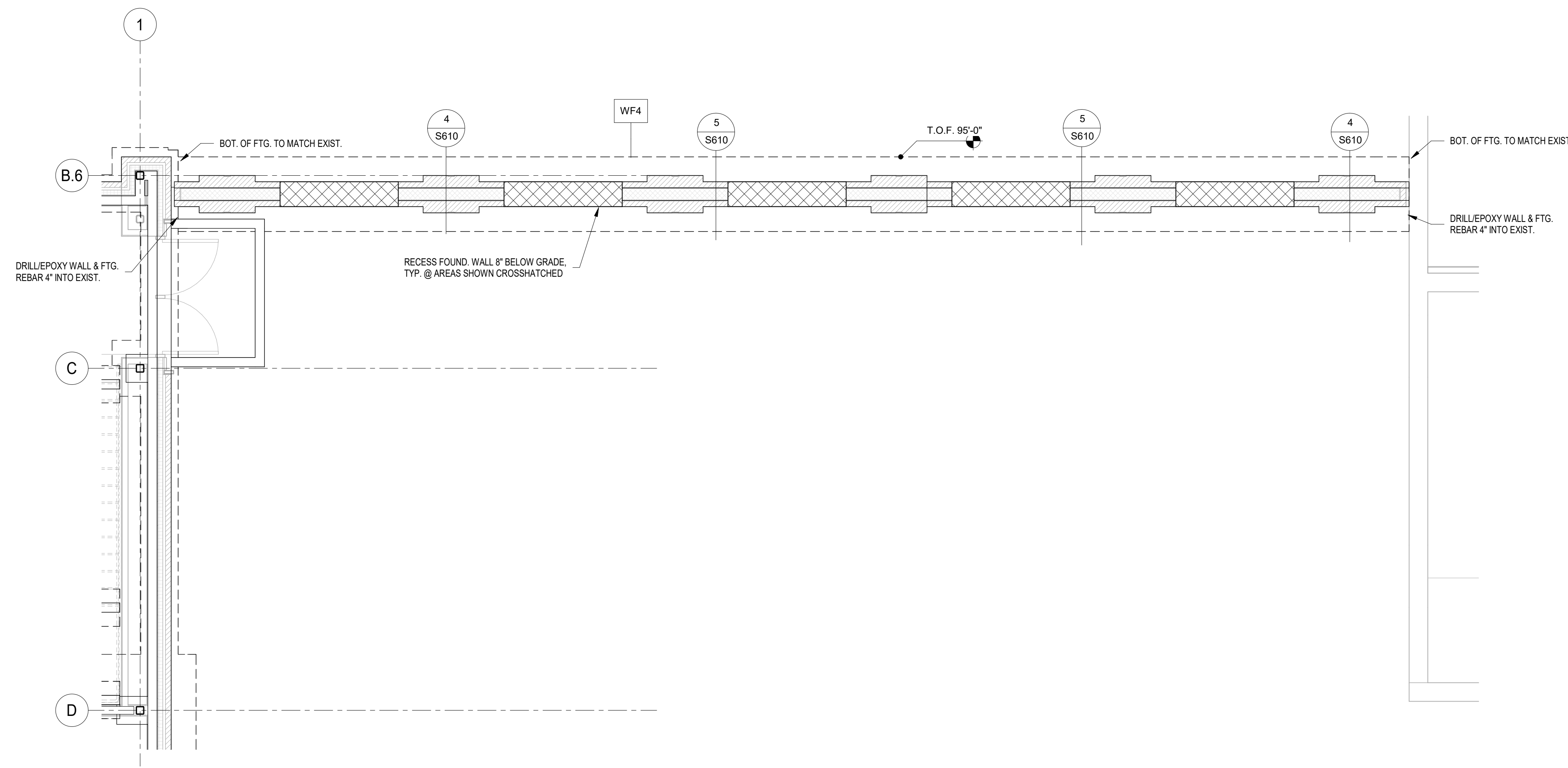
Reviewed By: JGM

Approved By: JUC

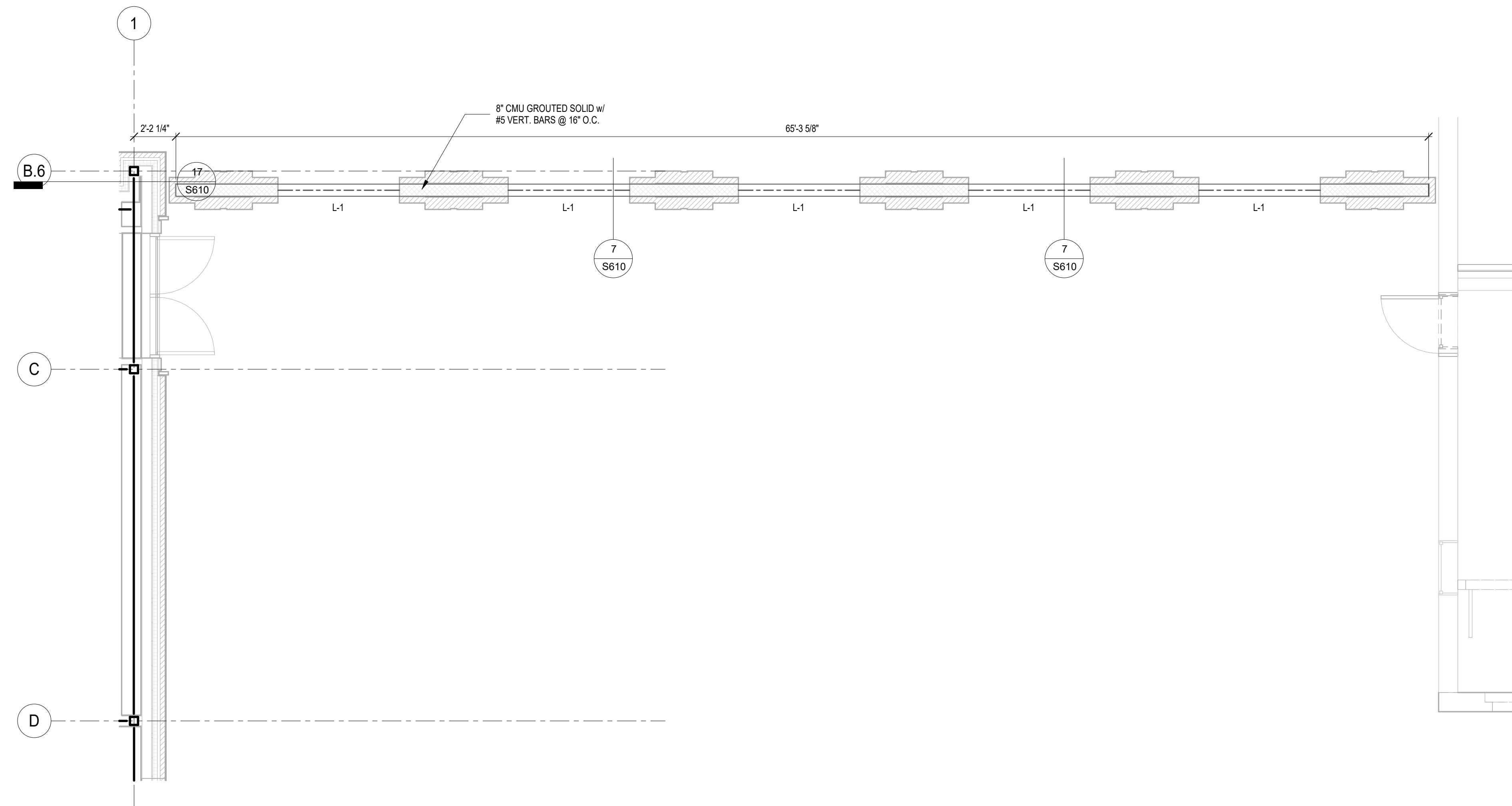
**OPERABLE PARTITION FRAMING -  
ALT#9**

**S401**

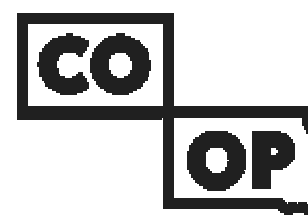




1 FOOTING & FOUNDATION PLAN - ALT#13 FREE STANDING WALL  
1/4" = 1'-0"



2 SECOND FLOOR FRAMING PLAN - ALT#13 FREE STANDING WALL  
1/4" = 1'-0"



AndersonMasonDale  
Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4952  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-339-1205  
E-mail: lpudwill@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-343-1310  
E-mail: jchrstensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmeller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-3344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.j.henz@imegcorp.com

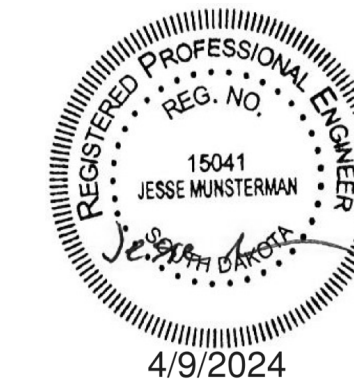
Seal

Issue

Date

100% CD

09 APRIL 2024



**LINCOLN HALL**

12th Ave SE, Aberdeen, SD 57401  
21-261

**Northern State University**

1200 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261

Drawn By: CRC

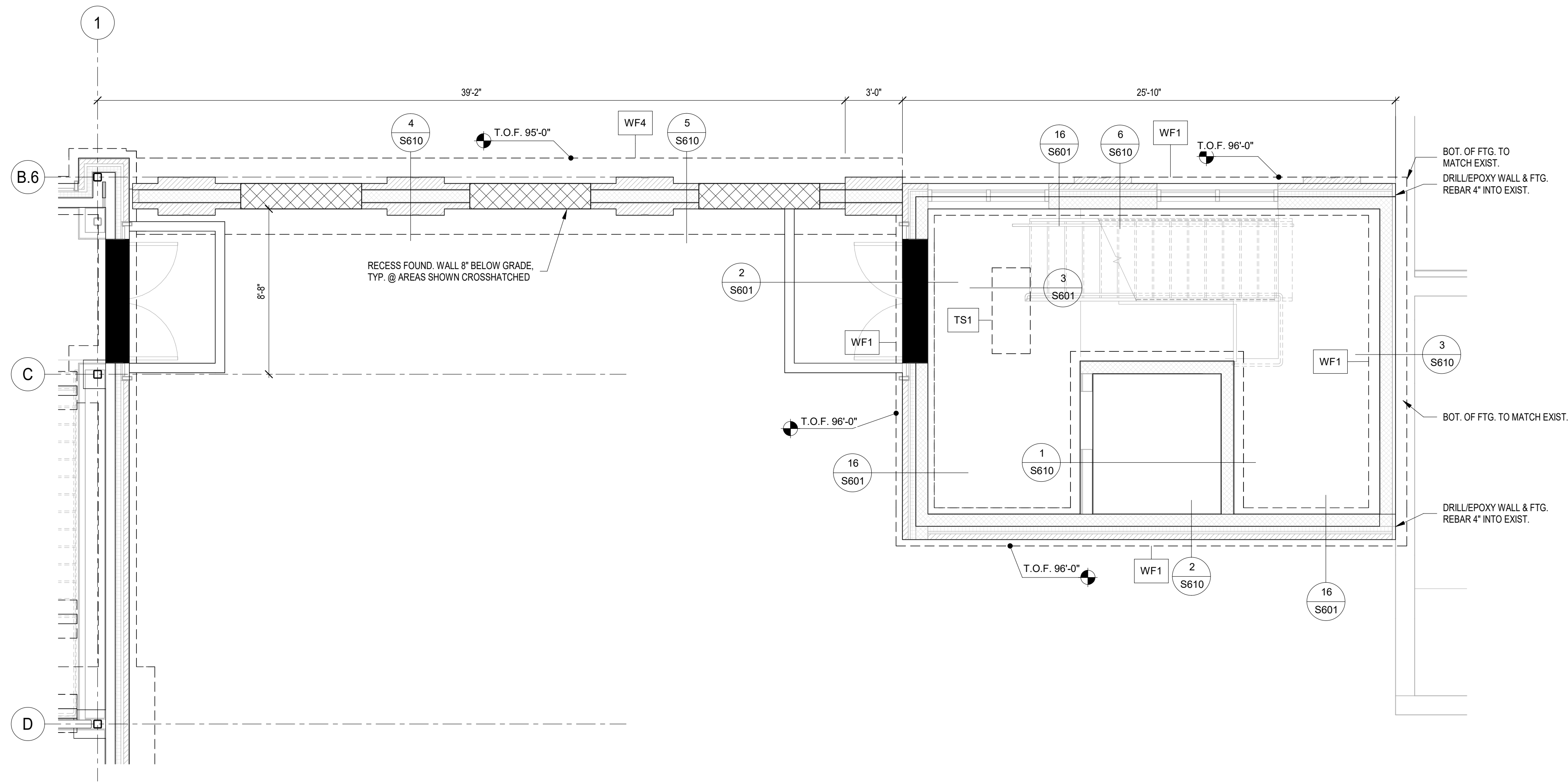
Reviewed By: JGM

Approved By: JUC

**SOUTH CONNECTOR PLANS -  
ALT#13**

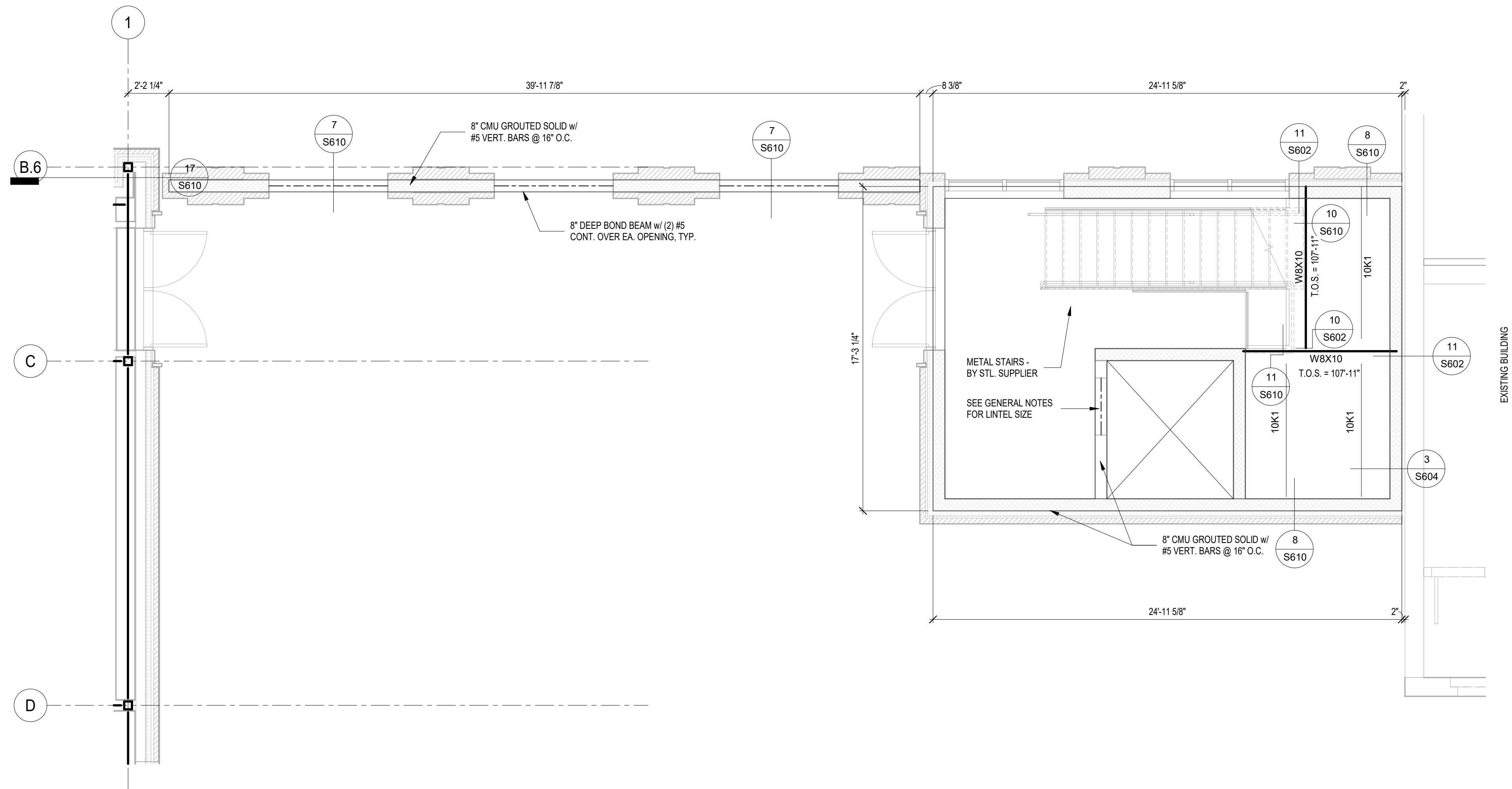
**S402**





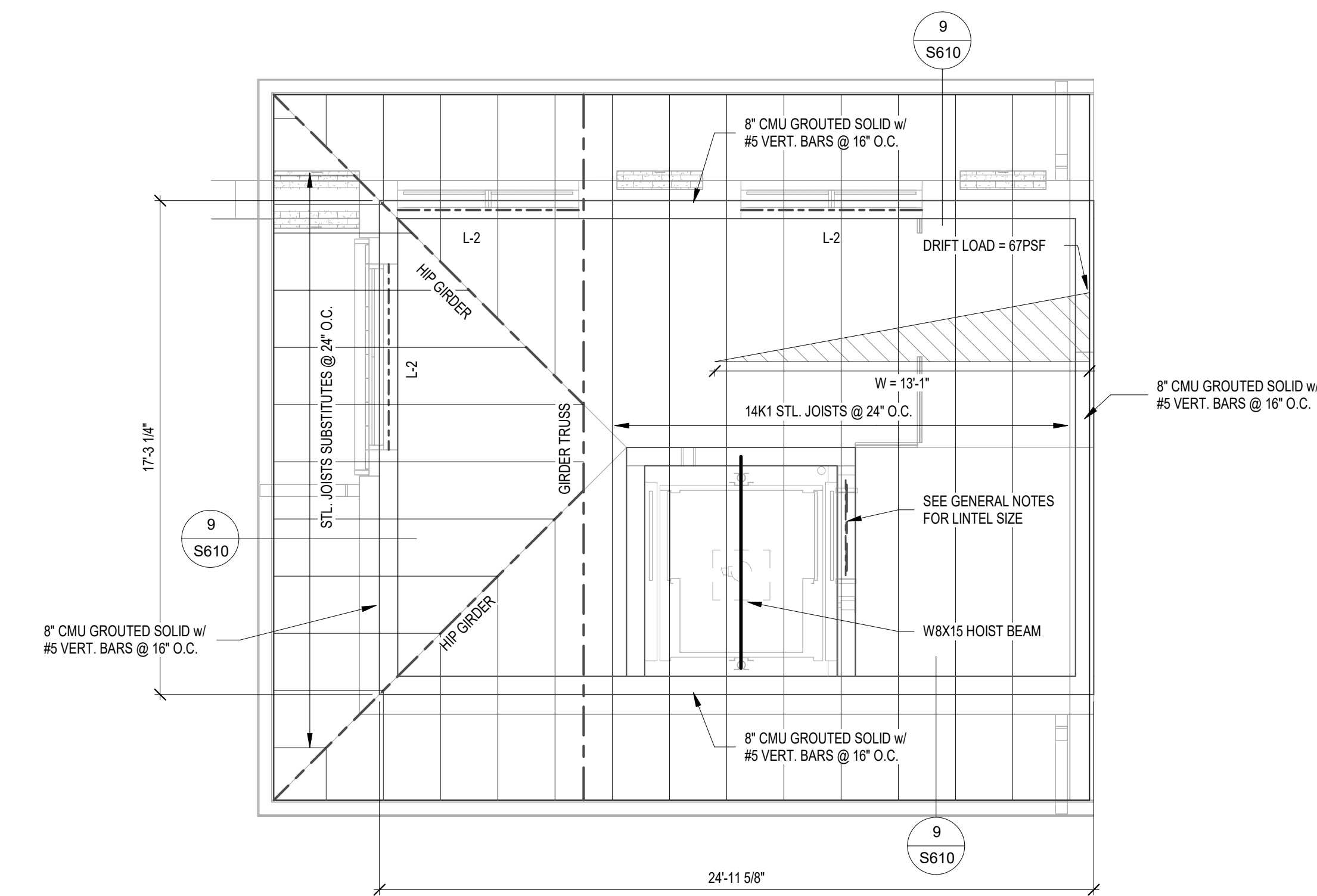
**1 FOOTING & FOUNDATION PLAN - ALT#14 GRAHAM HALL CONNECTOR**

1/4" = 1'-0"  
 NOTES:  
 • CONC. SLAB TO BE 4" w/ FIBERMESH REINFORCEMENT ON VAPOR BARRIER (REF. ARCH.)  
 • ON 8" DRAINAGE FILL ON APPROVED SUBGRADE  
 • CONTRACTOR TO SUBMIT CONTROL JOINT LAYOUT FOR ARCH. ENGINEER APPROVAL  
 • SEE STRUCTURAL NOTES FOR SIZE/SPACING LIMITATIONS  
 • SEE 4 & 5 ON SHEET S401 FOR TYPICAL CONTROL JOINT DETAILS  
 • SEE 6/9411 FOR TYPICAL CORNER WALL REINFORCING



**2 SECOND FLOOR FRAMING PLAN - ALT#14 GRAHAM HALL CONNECTOR**

1/4" = 1'-0"  
 NOTES:  
 • JST. BRG. = 107'-8 1/2" (UNLESS NOTED OTHERWISE)  
 • 2-1/2" CONC. SLAB ON 1.5XU 20 GA. COMPOSITE DECK (4" OVERALL REINF. SLAB w/ 6X5-W14W1.4 W.W.F.  
 • STEEL DECK TO BE FASTENED IN A 3/4" PATTERN w/ 5/8" DIA. PUDDLE WELDS & #12 SIDE LAP FASTENERS SCREWS @ 24" O.C.  
 • GC TO FIELD VERIFY ALL DIMENSIONS



**3 ROOF FRAMING PLAN - ALT#14 GRAHAM HALL CONNECTOR**

1/4" = 1'-0"  
 NOTES:  
 • JST. BRG. = 121'-1 1/2" (UNLESS NOTED OTHERWISE)  
 • ROOF DECKING @ STL. JST.'s OR STL. PURLINS TO BE 1.5B22GA. w/ HILTI X-HSN24 PAF'S IN A 3/4" PATTERN & #10 SIDE LAP SCREWS @ 18" O.C.  
 • GC TO FIELD VERIFY ALL DIMENSIONS

<p><b>Architect of Record</b>          CO-OP Architecture          1108 S Main Street Suite #102          Aberdeen, SD 57401          Telephone: 605-225-4952          E-mail: tom@co-oparch.com</p>	<p><b>Civil Engineer</b>          Helms &amp; Associates          416 Production Street          Aberdeen, SD 57401          Telephone: 605-225-1212          E-mail: lucash@helmsengineering.com</p>	<p><b>Structural Engineer</b>          Rise Structural Associates, Inc.          6909 S. Lyncrest Place, Suite 110          Sioux Falls, SD 57109          Telephone: 605-743-2510          E-mail: jchristensen@riseincorp.com</p>	<p><b>Electrical Engineer</b>          IMEG Corporation          3314 Milwaukee Ave. NE          Aberdeen, SD 57401          Telephone: 605-225-1349          E-mail: thomas.henz@imegcorp.com</p>
<p><b>Associate Architect</b>          AndersonMasonDale Architects, P.C.          3198 Speer Boulevard          Denver, CO 80211          Telephone: 303-294-9448          FAX: 303-294-0762          E-mail: bblanchard@amdarchitects.com</p>	<p><b>Landscape Architect</b>          Confluence          524 N Main Ave, Suite 201          Sioux Falls, SD 57104          Telephone: 605-259-1205          E-mail: lpudwill@thinkconfluence.com</p>	<p><b>Mech &amp; Plumbing Engineer</b>          Schmelzer Engineering          801 railroad Ave SE          Aberdeen, South Dakota 57401          Telephone: 605-225-0344          E-mail: travis@sceng.biz</p>	

	<p>Issue 100% CD</p>	<p>Date 09 APRIL 2024</p>
--	--------------------------	-------------------------------

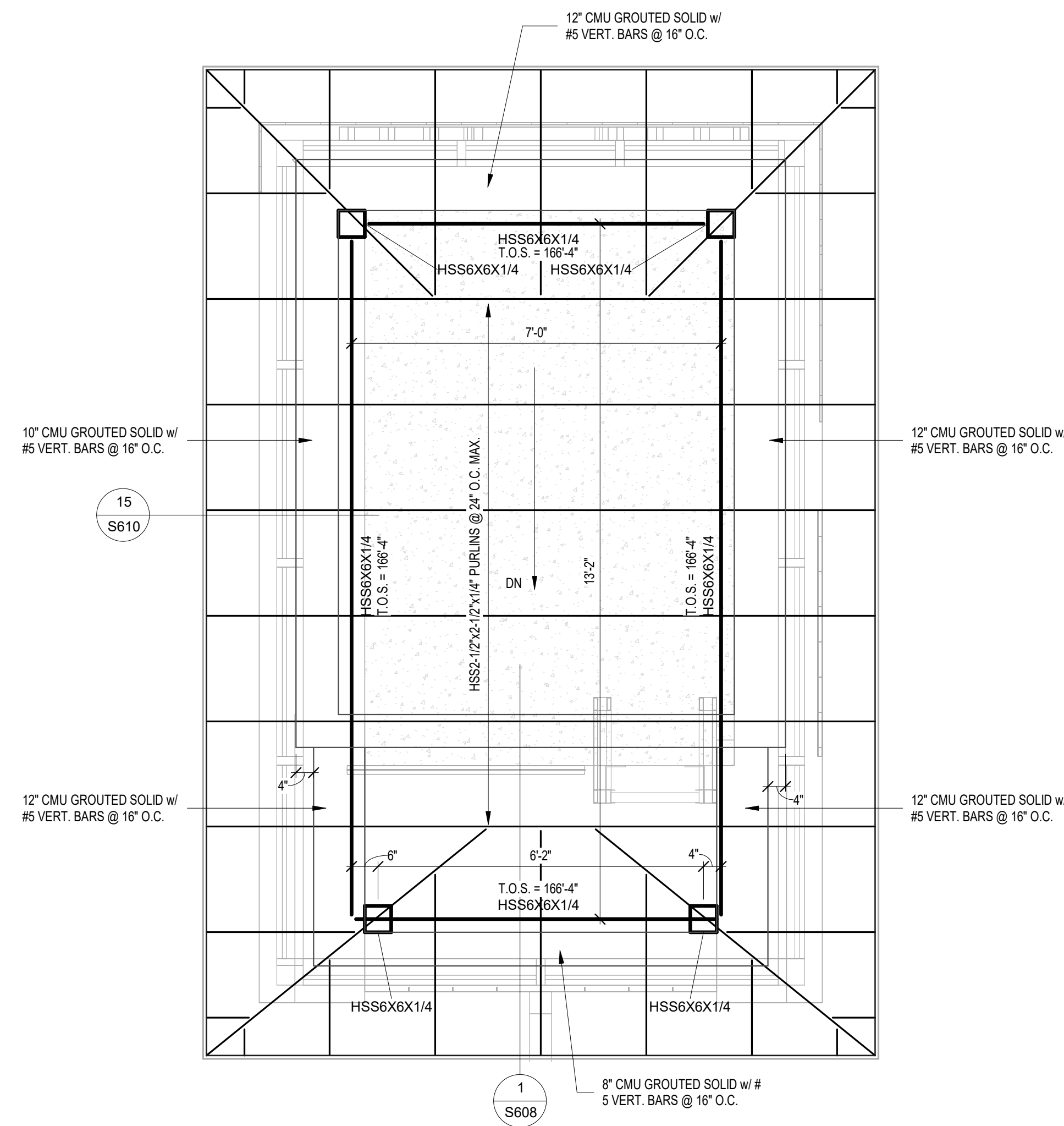
**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261  
 Northern State University  
 1200 S. Jay St.  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

Project Number: 21-261  
 Drawn By: CRC  
 Reviewed By: JGM  
 Approved By: JUC

**SOUTH CONNECTOR PLANS - ALT#14**  
**S403**

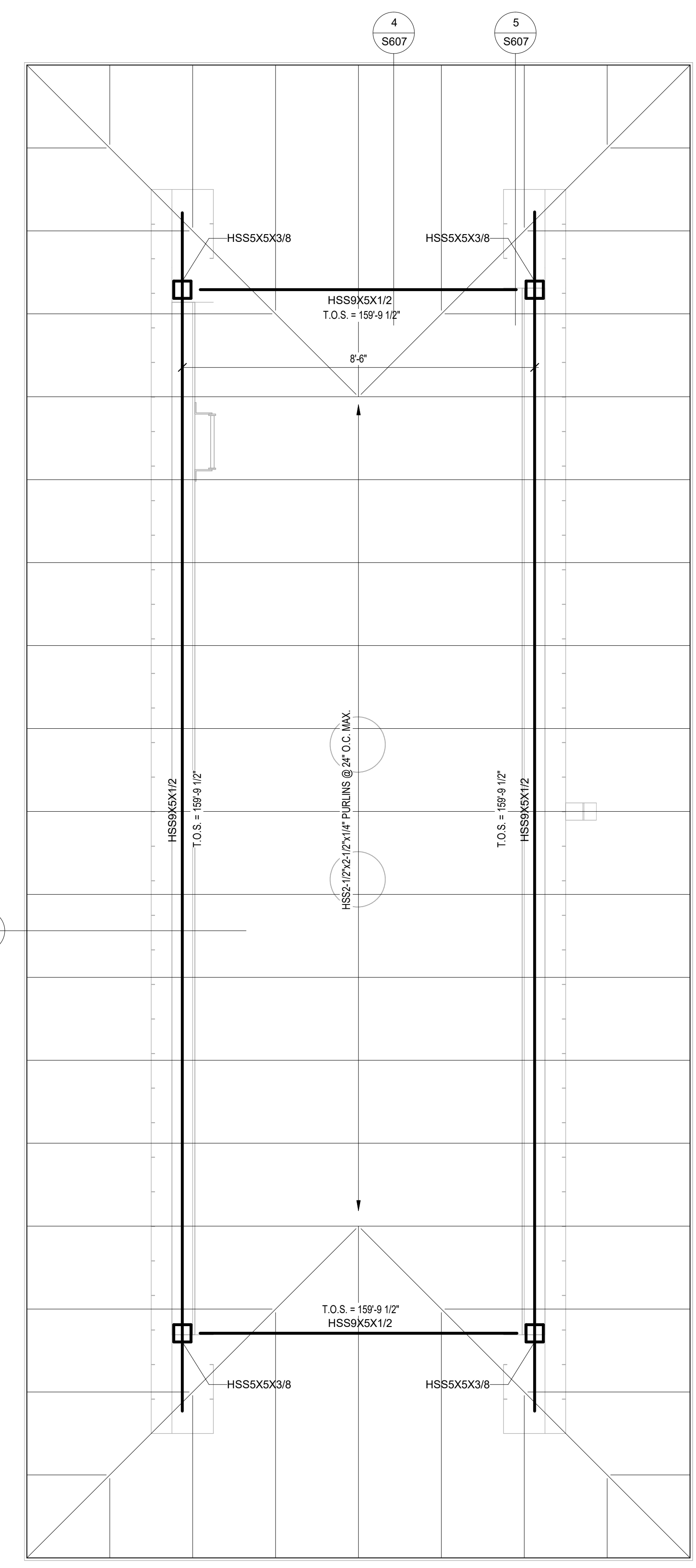


DETAIL NOT USED



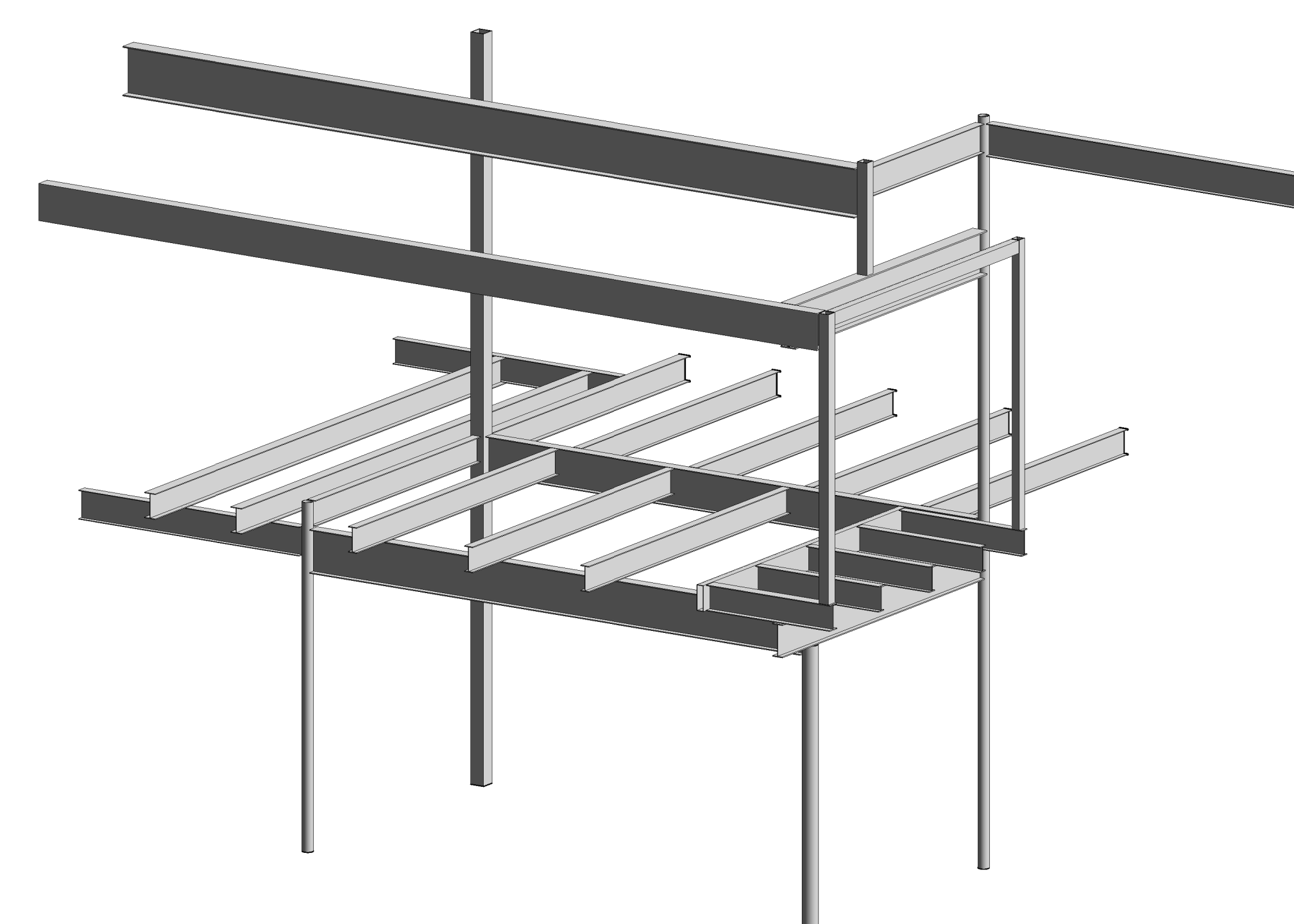
2 ELEVATOR ROOF FRAMING PLAN

1/2" = 1'-0"  
 NOTES:  
 \* ROOF DECKING @ STL. PURLINS TO BE 1.5B22GA. w/ H.L.T.I. X.HSN24 PAF's IN A 345 PATTERN & #10 SIDE LAP SCREWS @ 18" O.C.

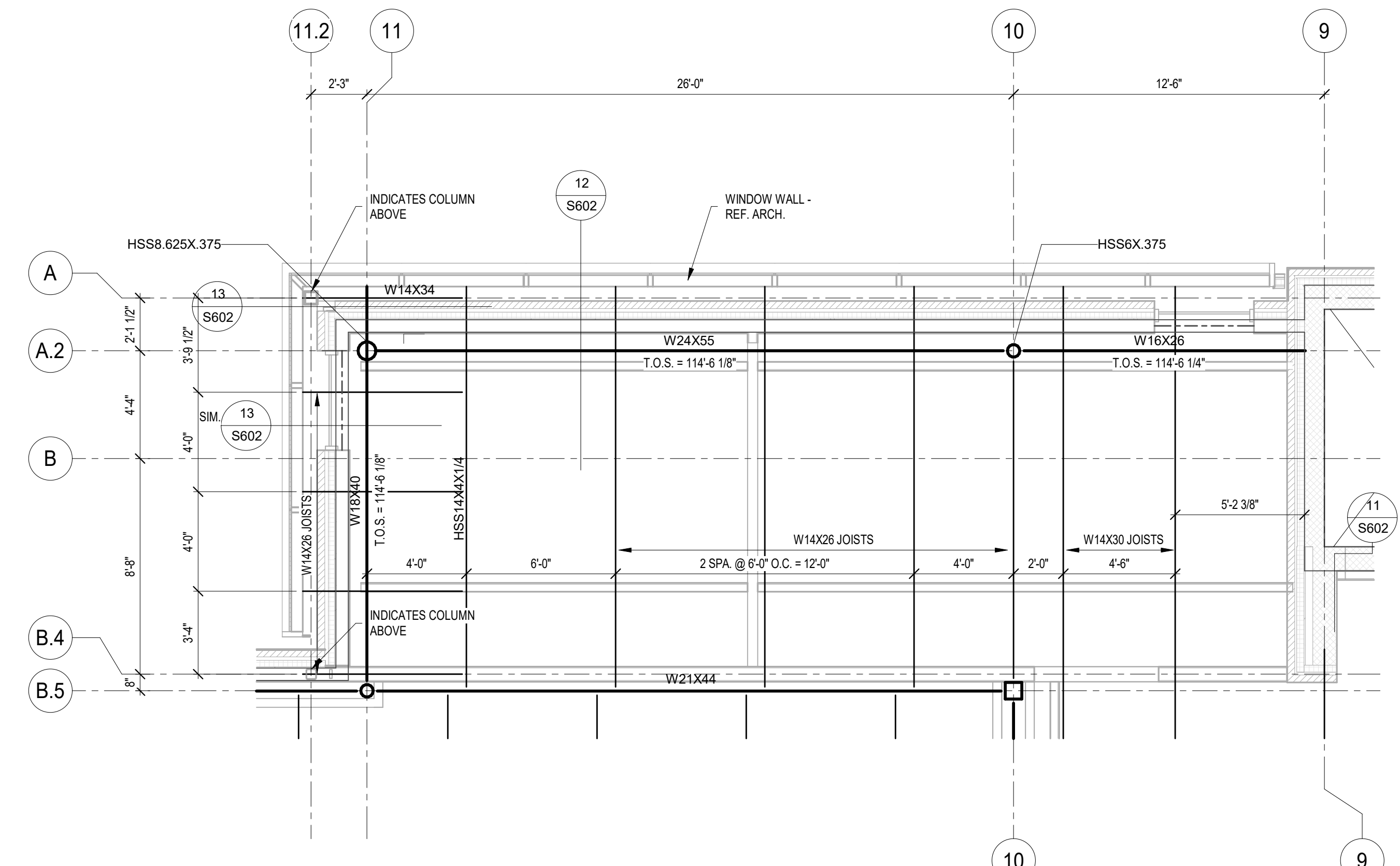


3 HIGH STL. FRAMING @ CHIMNEY

1/2" = 1'-0"  
 NOTES:  
 \* ROOF DECKING @ STL. PURLINS TO BE 1.5B22GA. w/ H.L.T.I. X.HSN24 PAF's IN A 345 PATTERN & #10 SIDE LAP SCREWS @ 18" O.C.

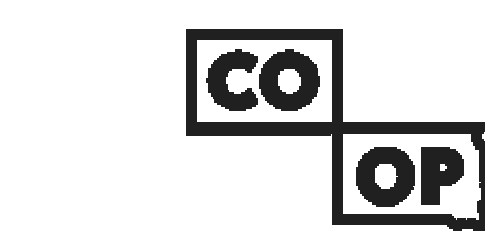


5 ROOM 203 FRAMING 3D VIEW



4 SECOND FLOOR FRAMING - ENLARGED RM. 203

1/4" = 1'-0"



AndersonMasonDale Architects

**Architect of Record**  
 CO-OP Architecture  
 1108 S Main Street Suite #102  
 Aberdeen, SD 57401  
 Telephone: 605-225-4852  
 E-mail: tom@co-oparch.com

**Associate Architect**  
 AndersonMasonDale Architects, P.C.  
 3198 Speer Boulevard  
 Denver, CO 80211  
 Telephone: 303-294-9448  
 FAX: 303-294-0762  
 E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
 Helms & Associates  
 416 Production Street  
 Aberdeen, SD 57401  
 Telephone: 605-225-1212  
 E-mail: lucash@helmsengineering.com

**Landscape Architect**  
 Confluence  
 524 N Main Ave, Suite 201  
 Sioux Falls, SD 57104  
 Telephone: 605-339-1205  
 E-mail: tpudwil@thinkconfluence.com

**Structural Engineer**  
 Rise Structural Associates, Inc.  
 6909 S. Lyncrest Place, Suite 110  
 Sioux Falls, SD 57401  
 Telephone: 605-225-1344  
 E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
 Schmelzer Engineering  
 801 railroad Ave SE  
 Aberdeen, South Dakota 57401  
 Telephone: 605-225-1344  
 E-mail: travis@siceng.biz

**Electrical Engineer**  
 IMEG Corporation  
 3314 Milwaukee Ave. NE  
 Aberdeen, SD 57401  
 Telephone: 605-225-1349  
 E-mail: thomas.henz@imegcorp.com



Seal Issue Date  
 100% CD 09 APRIL 2024

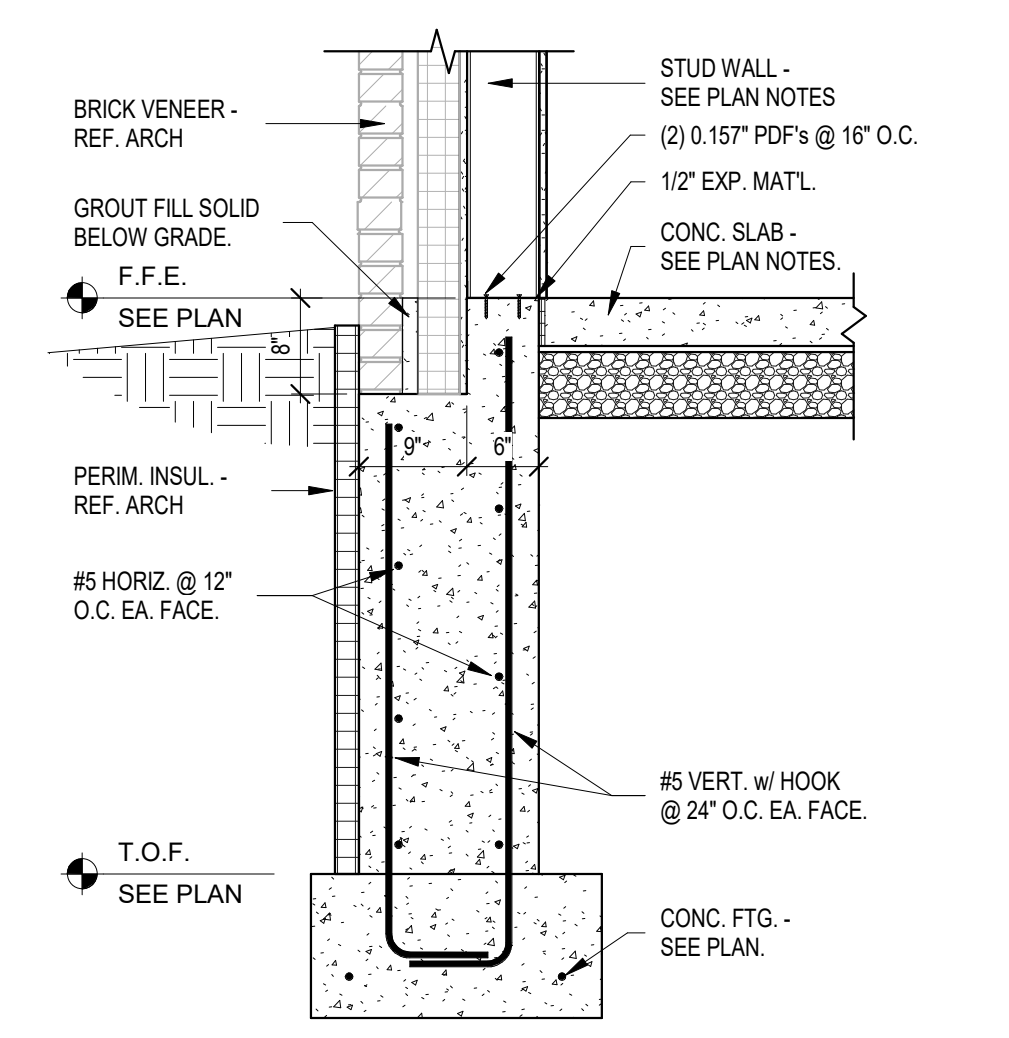
**LINCOLN HALL**  
 12th Ave SE, Aberdeen, SD 57401  
 21-261  
 Northern State University  
 1203 S Jay St  
 Aberdeen, South Dakota 57401  
 Telephone: 605-626-3011  
 E-mail:

Project Number: 21-261  
 Drawn By: CRC  
 Reviewed By: JGM  
 Approved By: JUC

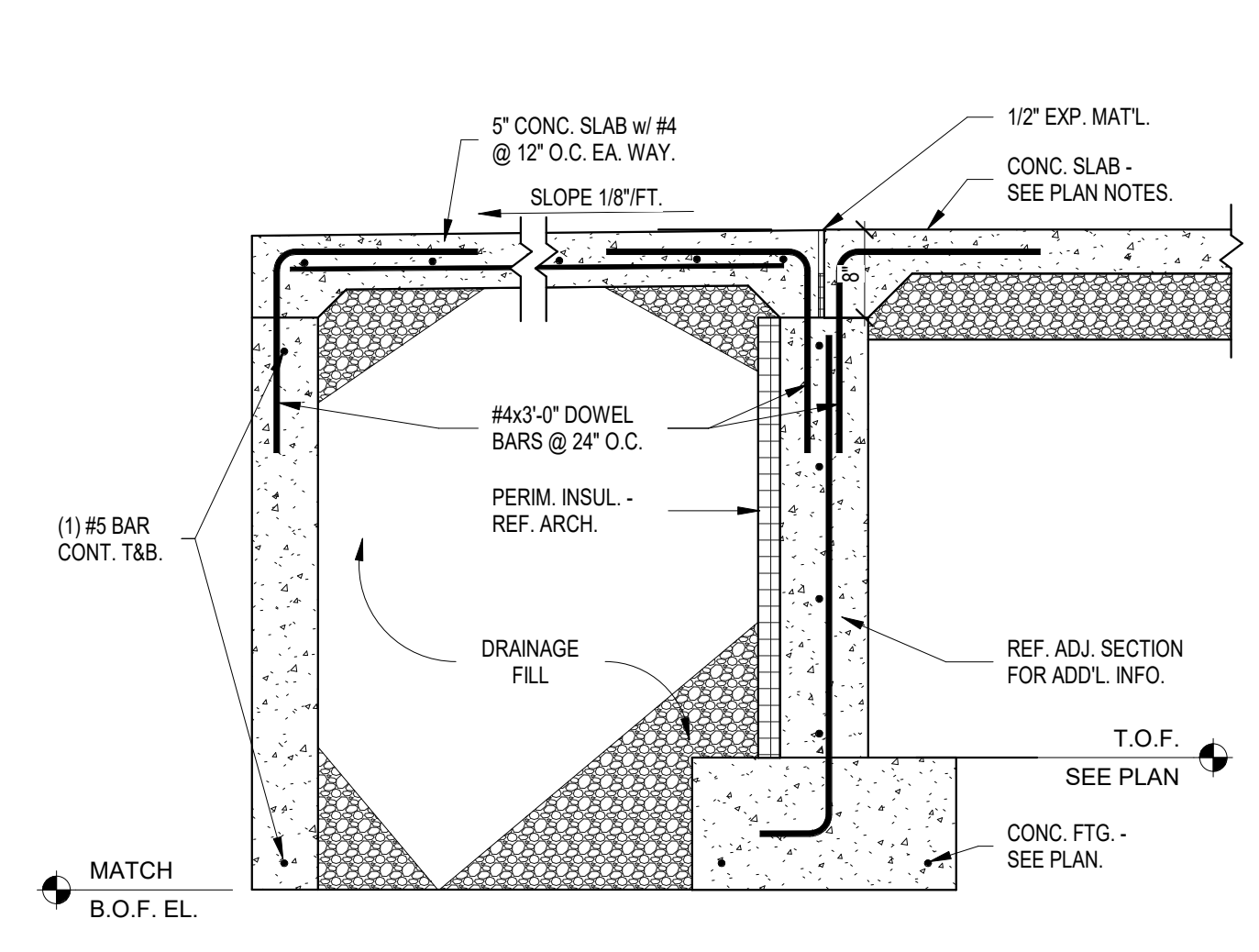
ENLARGED FRAMING PLANS

S501

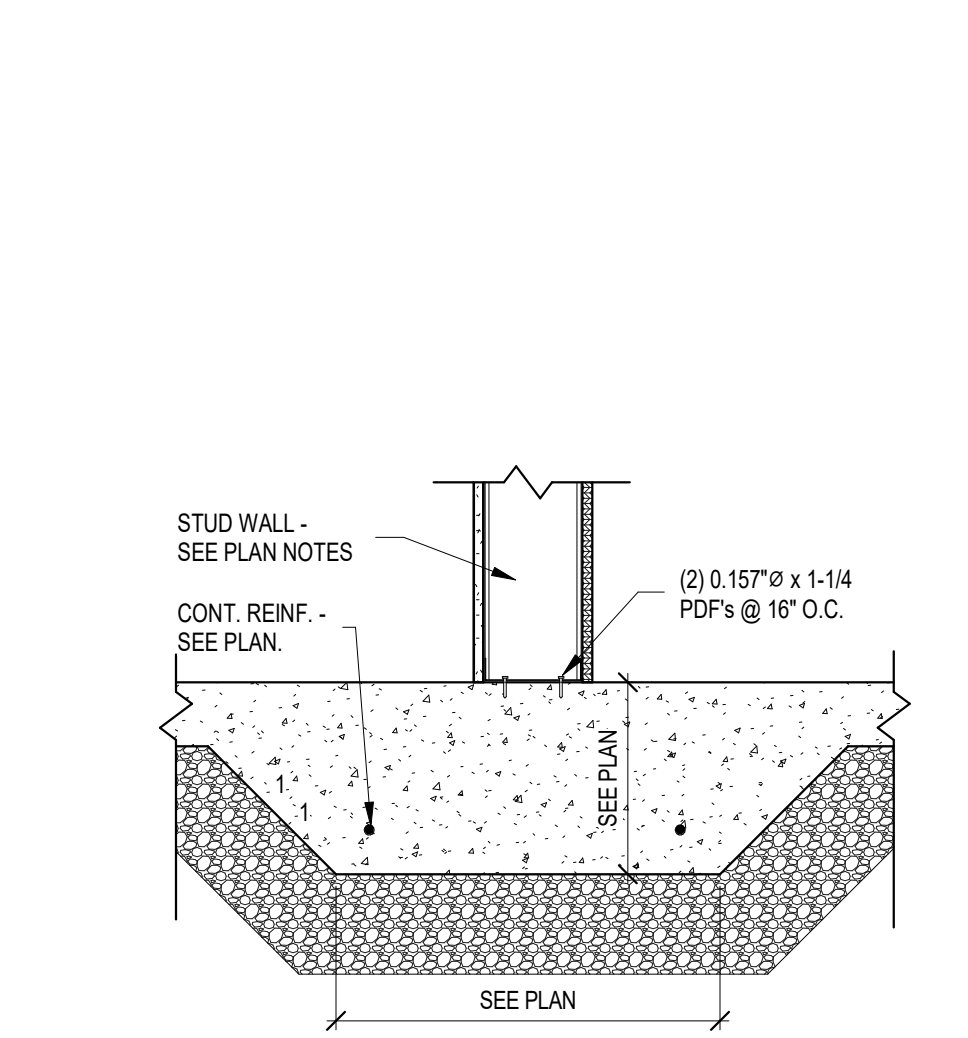




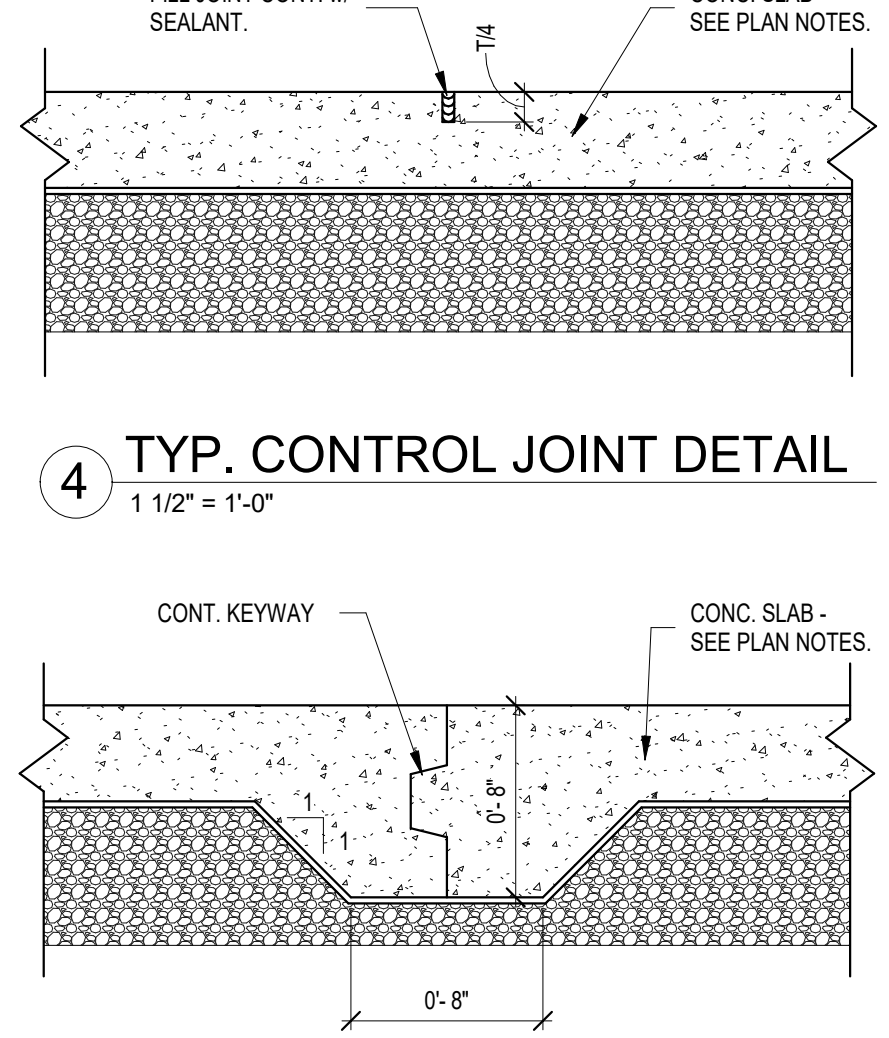
1 TYP. FOUND. WALL w/ BRICKLEDGE  
3/4" = 1'-0"



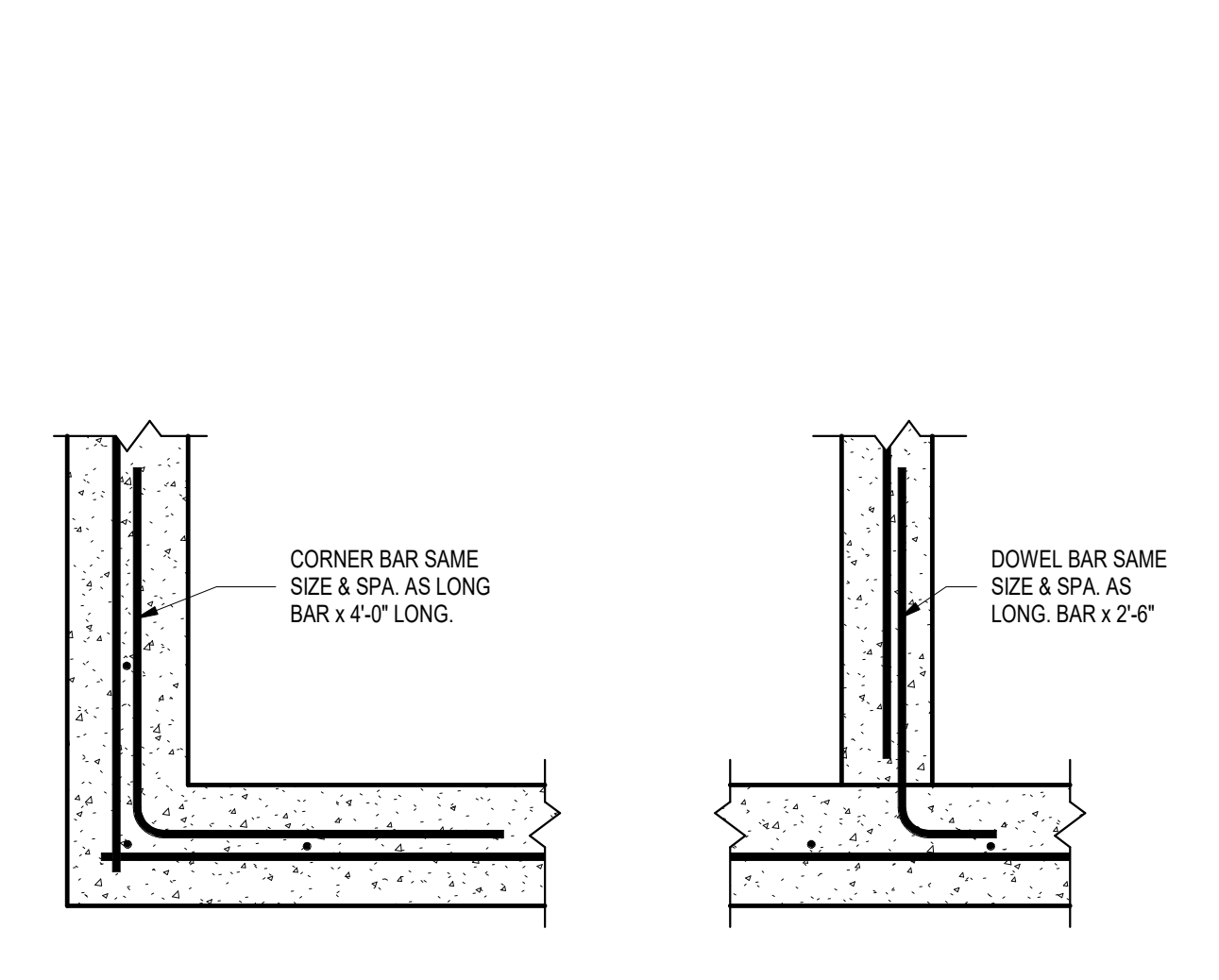
2 FROST STOOP SECTION  
3/4" = 1'-0"



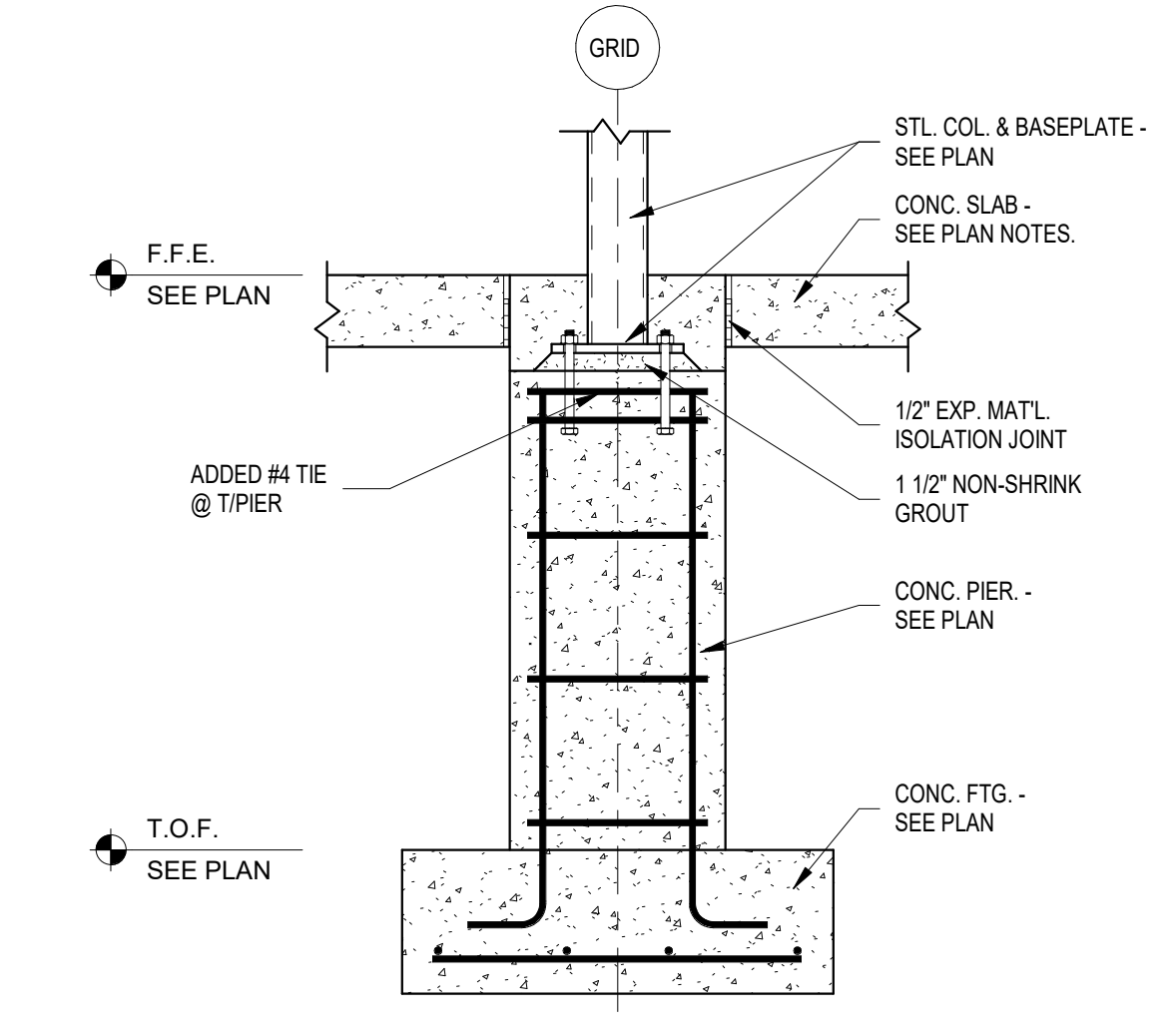
3 THICKENED SLAB DETAIL  
1" = 1'-0"



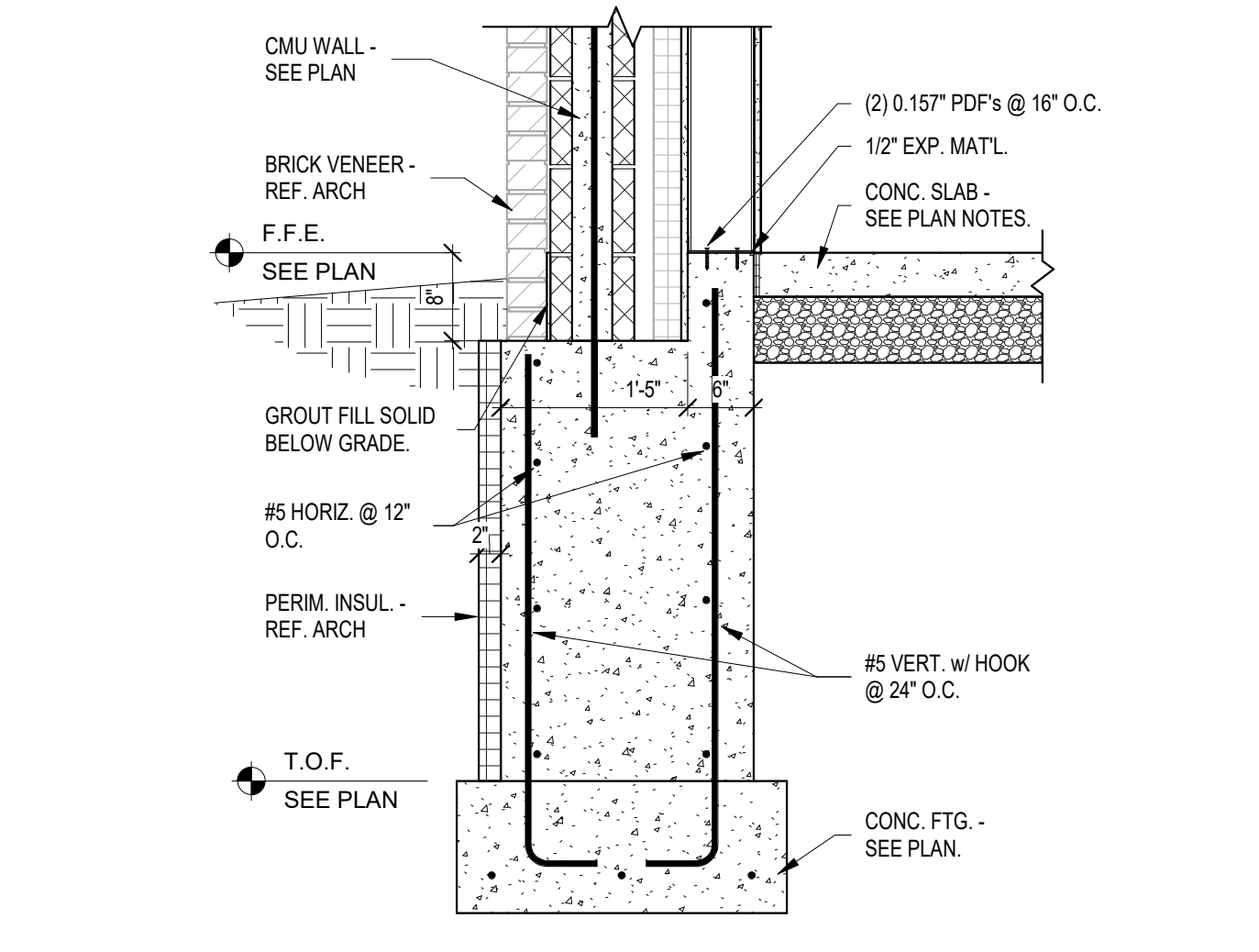
4 TYP. CONTROL JOINT DETAIL  
1 1/2" = 1'-0"



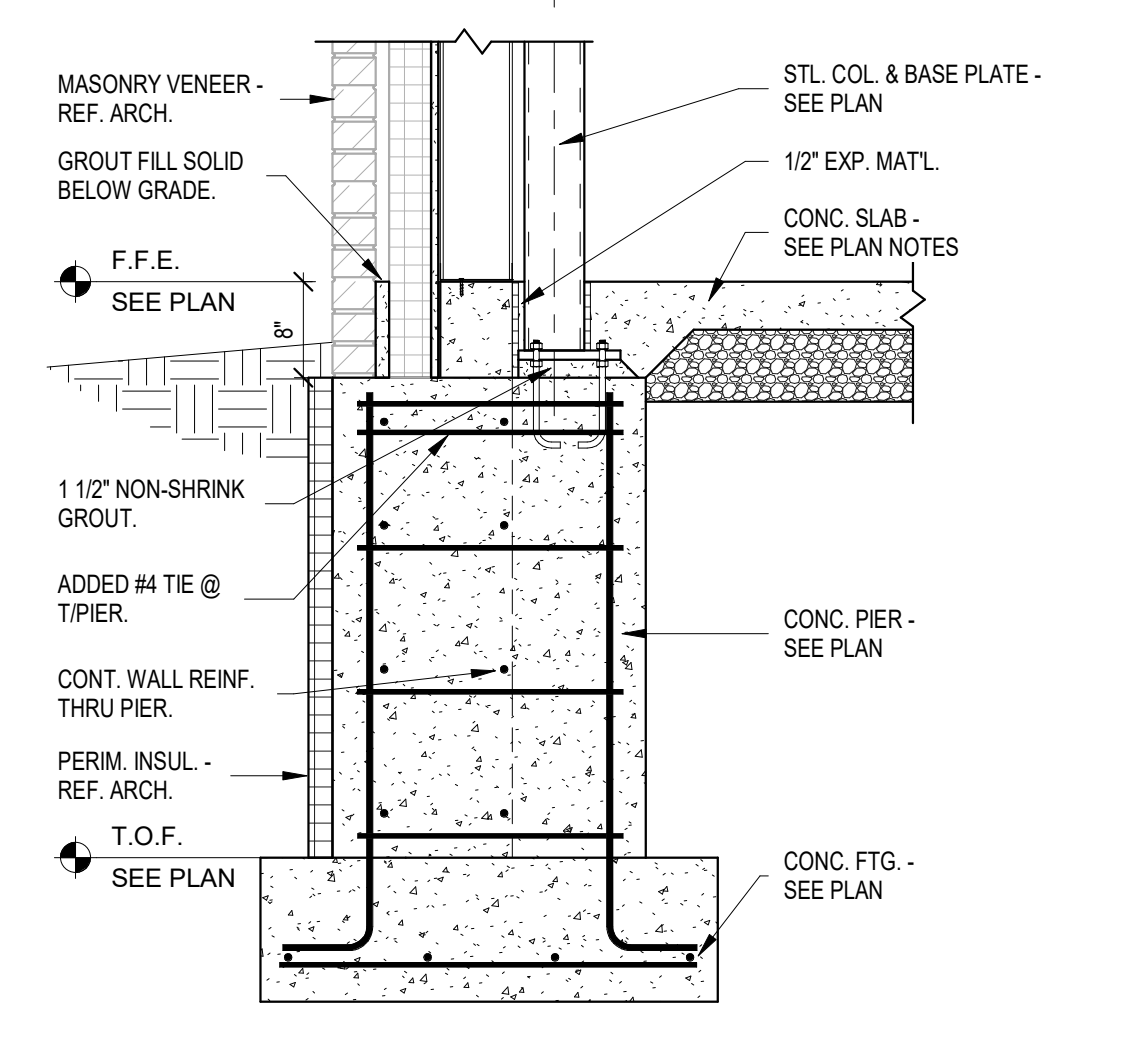
6 TYP. WALL CORNER REINF. DETAILS  
1" = 1'-0"



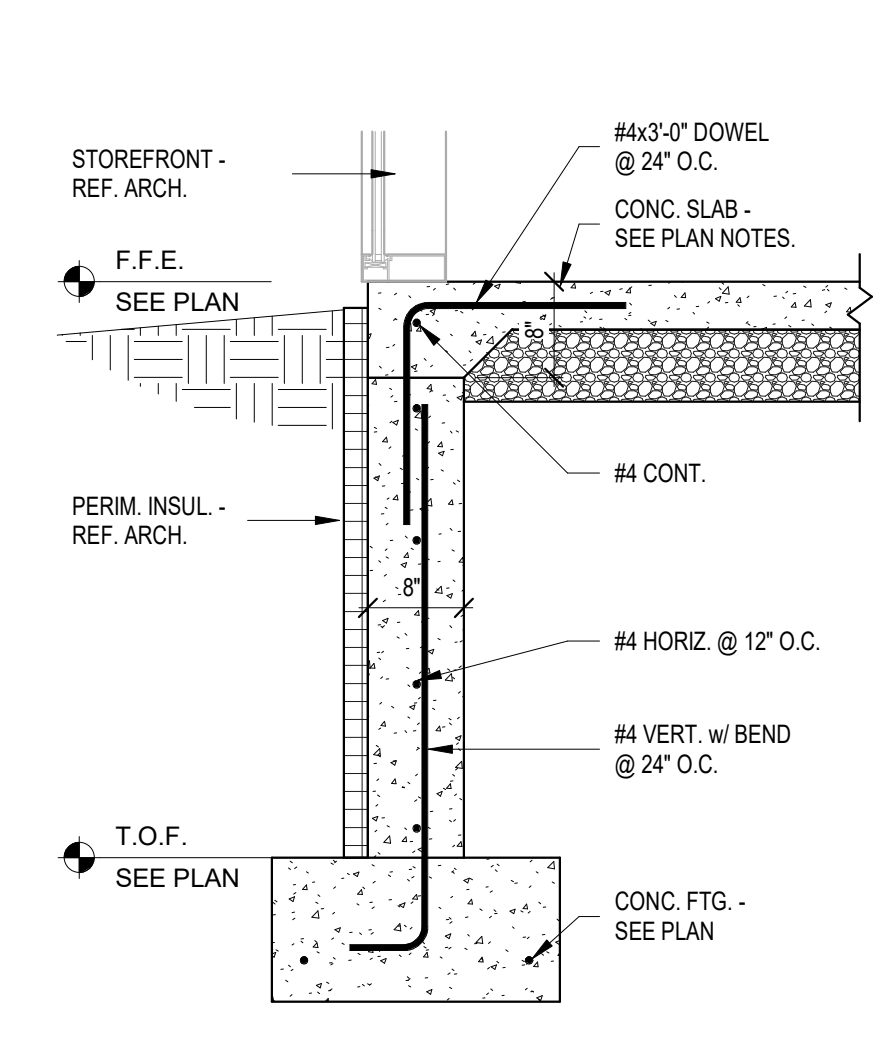
7 INT. PIER DTL. @ STL. COL.  
3/4" = 1'-0"



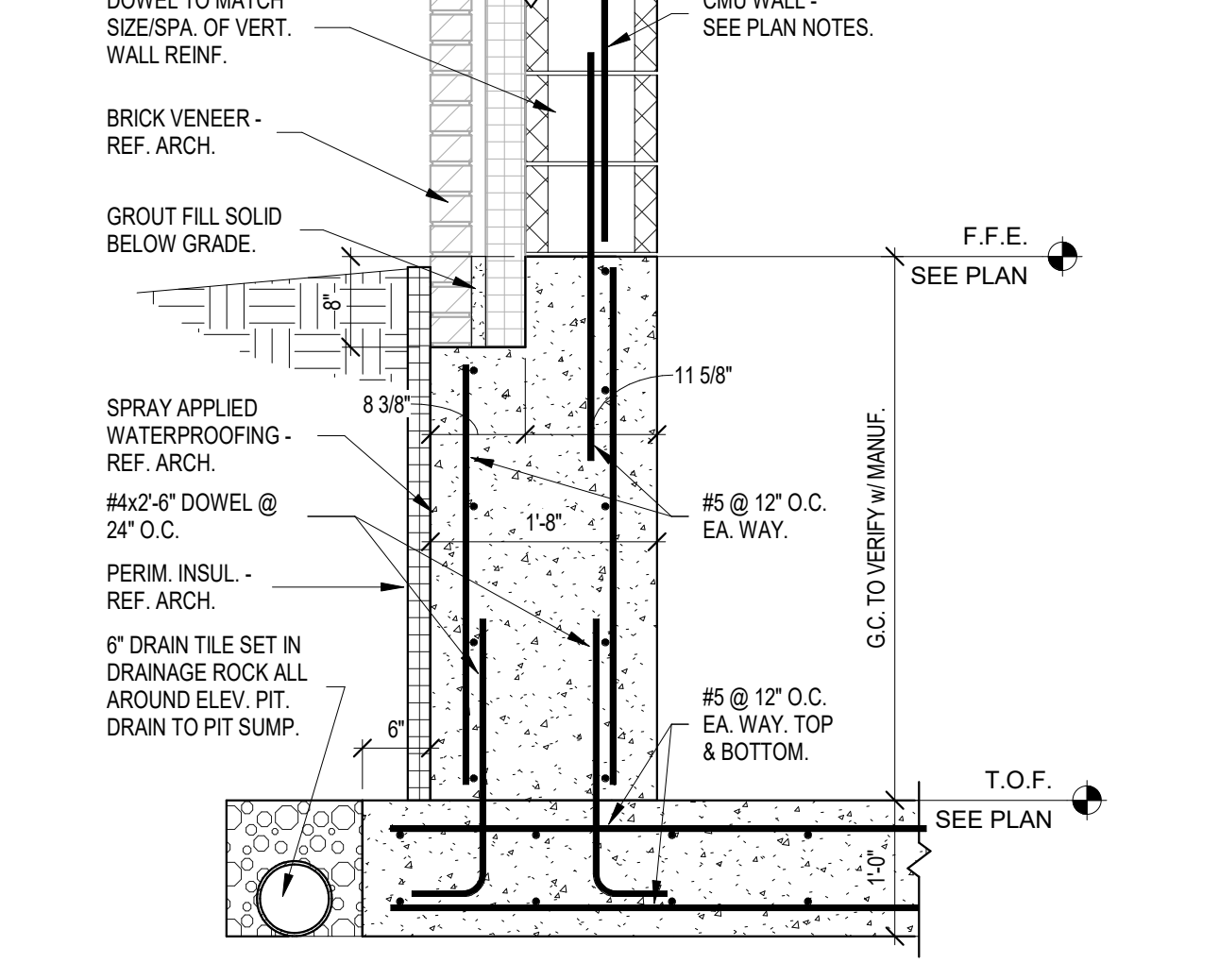
8 FOUND. WALL w/ BRICKLEDGE, CMU, & LG STUD  
3/4" = 1'-0"



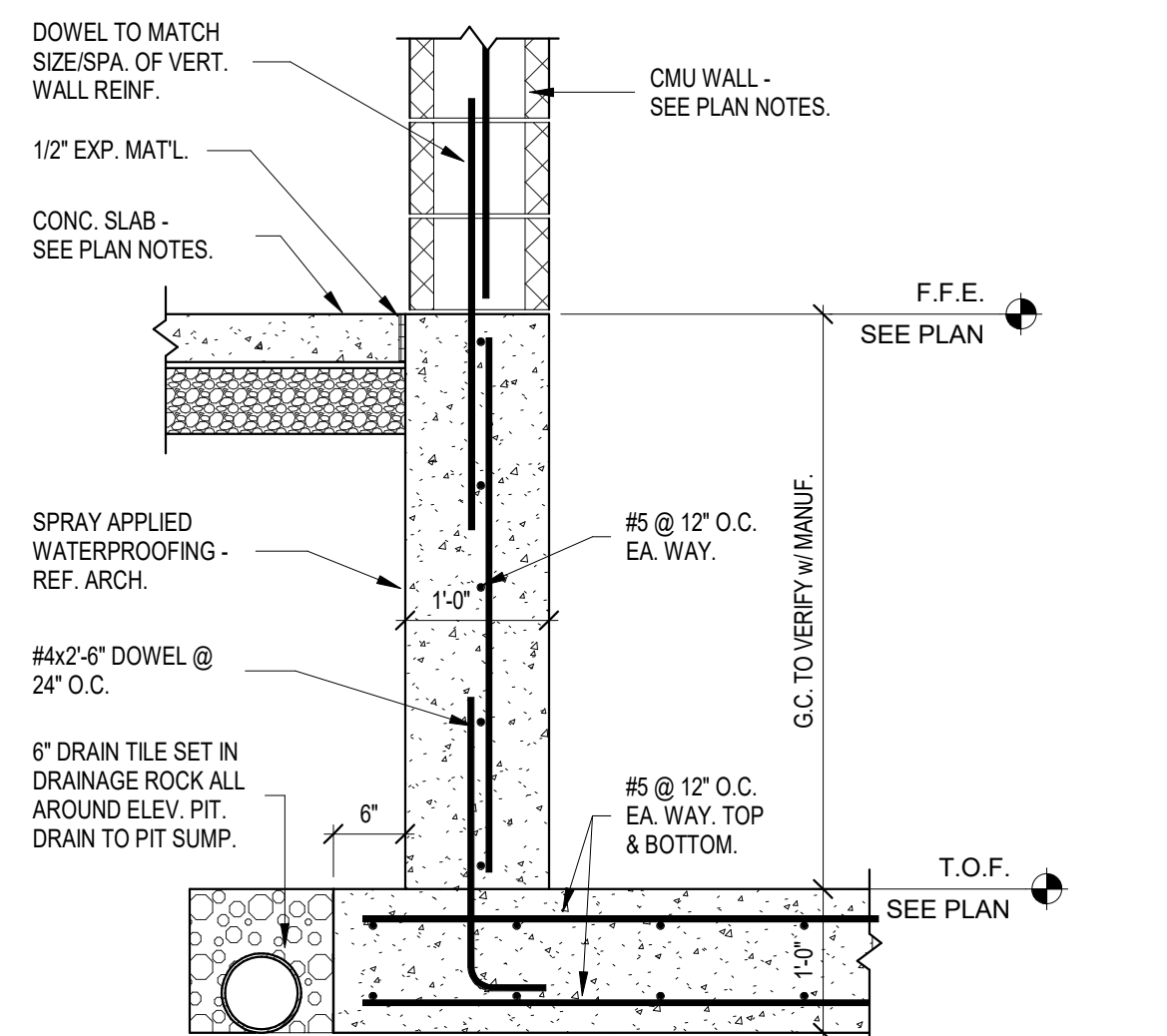
9 EXT. PIER @ BRICKLEDGE  
3/4" = 1'-0"



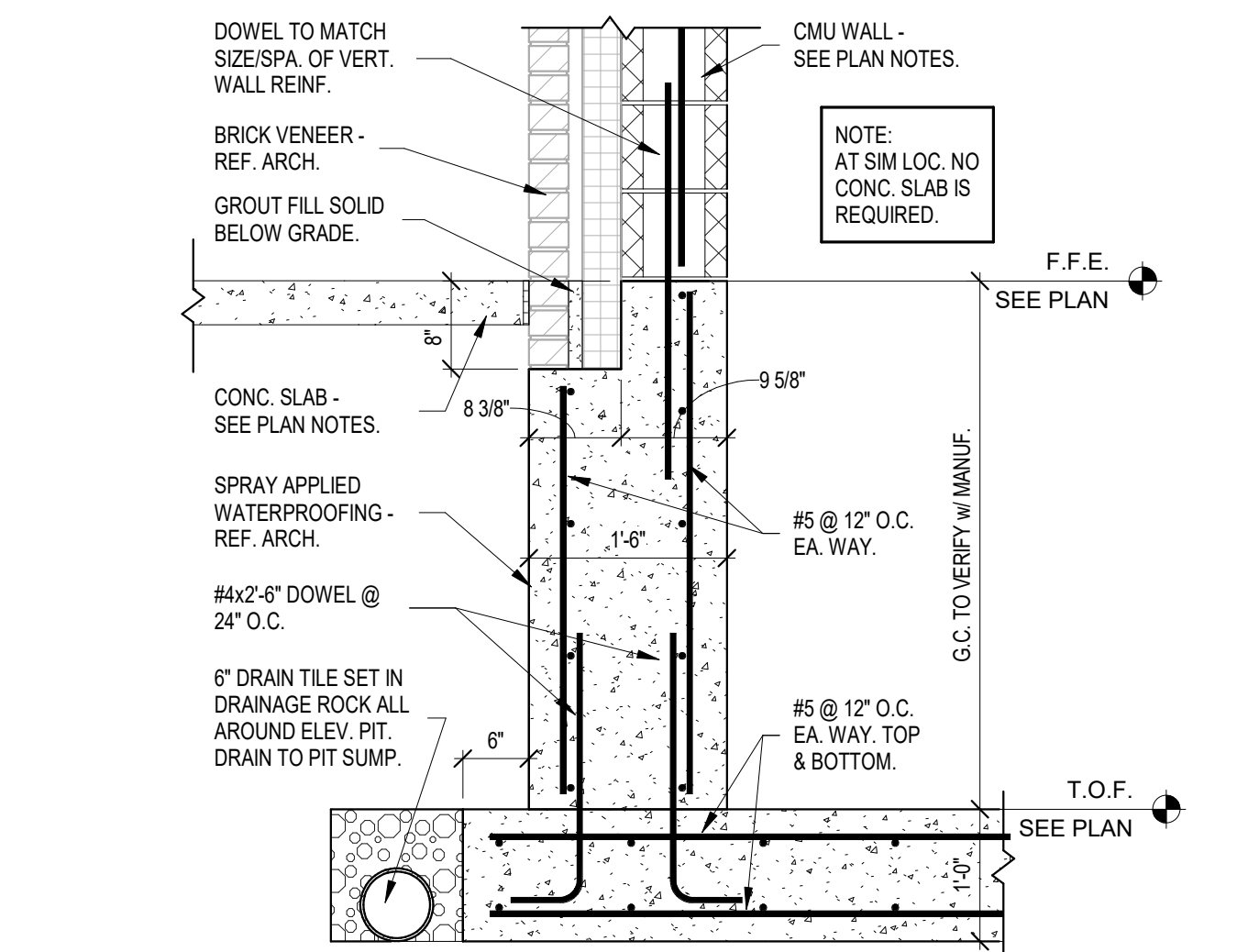
10 FOUND. SECTION @ WDW. WALL  
3/4" = 1'-0"



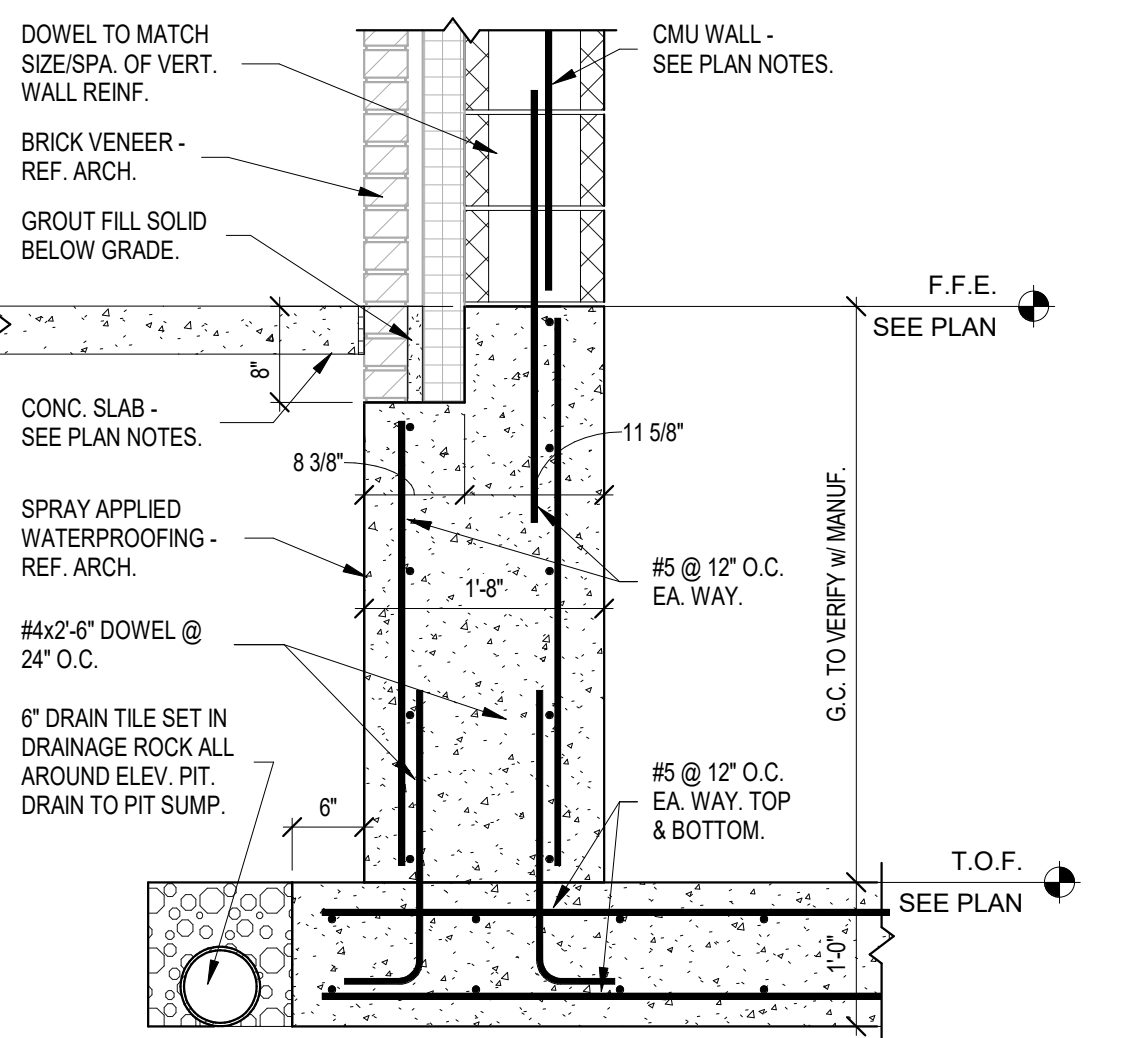
11 EXT. ELEV. PIT SECTION 1  
3/4" = 1'-0"



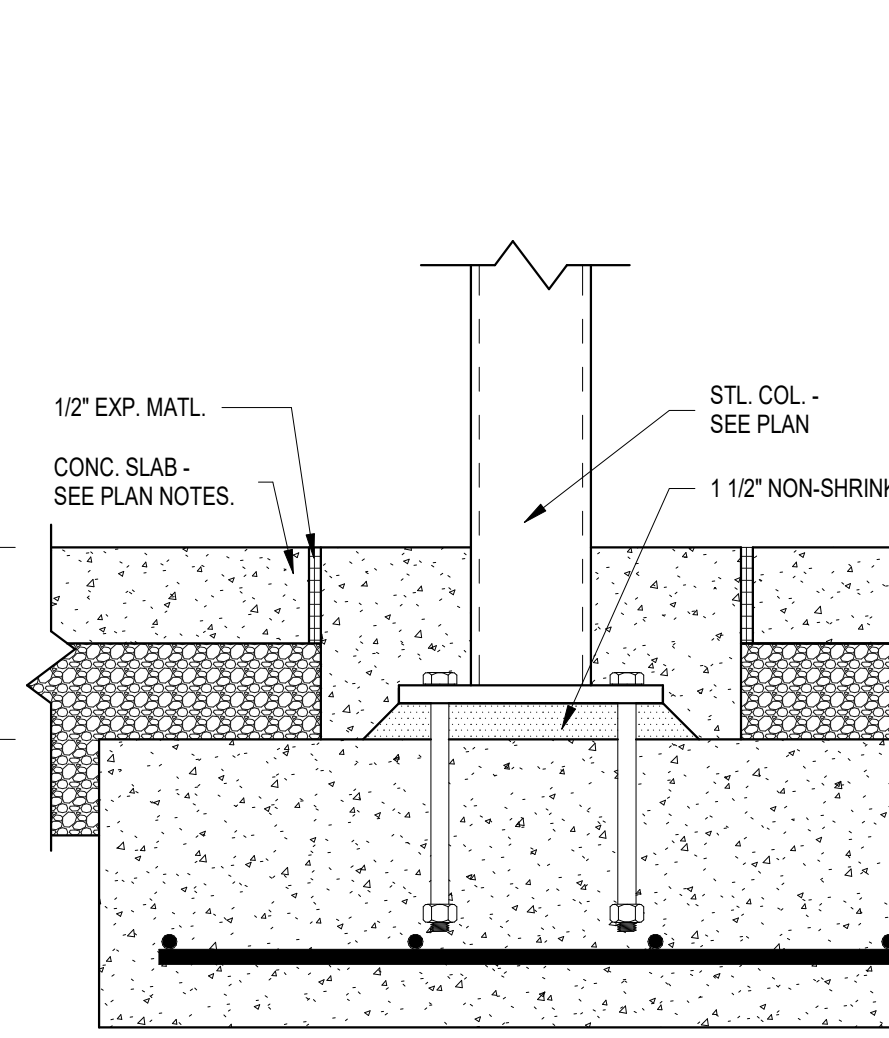
12 INT. ELEV. PIT SECTION 1  
3/4" = 1'-0"



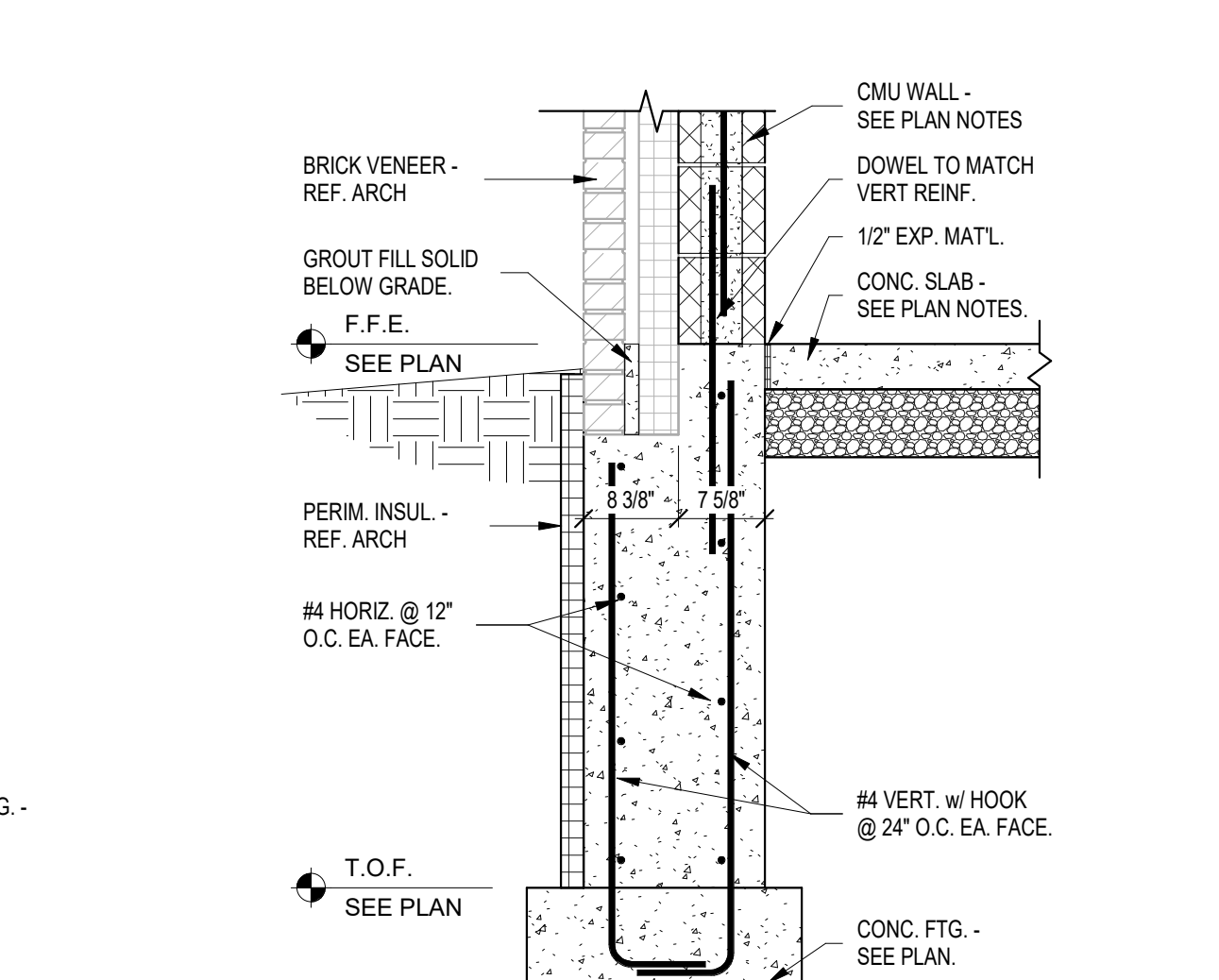
13 INT. ELEV. PIT SECTION 2  
3/4" = 1'-0"



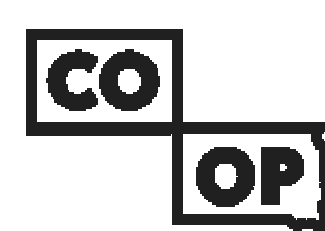
14 INT. ELEV. PIT SECTION 3  
3/4" = 1'-0"



15 INT. PAD FTG. @ STL. COL.  
1 1/2" = 1'-0"



16 TYP. FOUND. WALL w/ BRICKLEDGE  
3/4" = 1'-0"



AndersonMasonDale Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-294-4852  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchar@amdarchitects.com

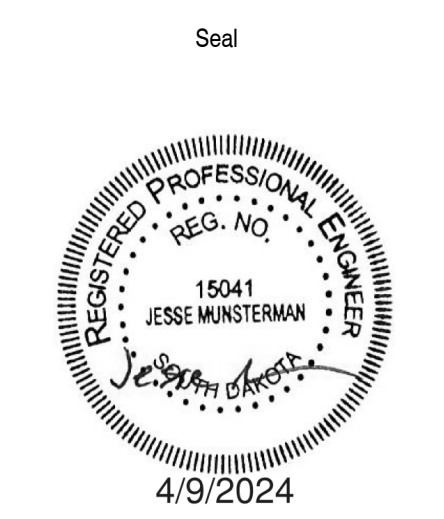
**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-294-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-294-1205  
E-mail: lputwell@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-294-3344  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-294-3344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.henz@imegcorp.com



Issue  
100% CD  
Date  
09 APRIL 2024

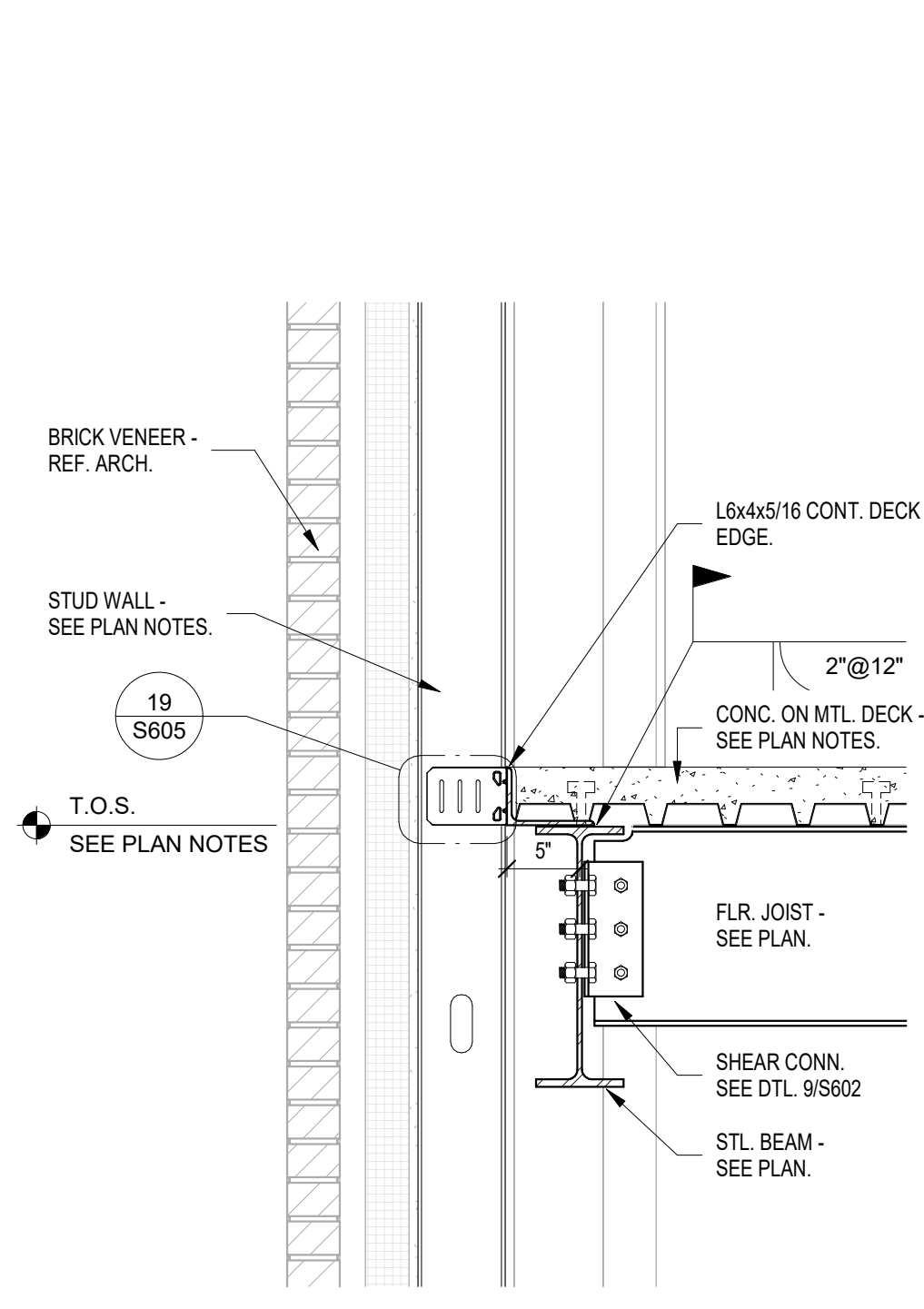
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1200 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

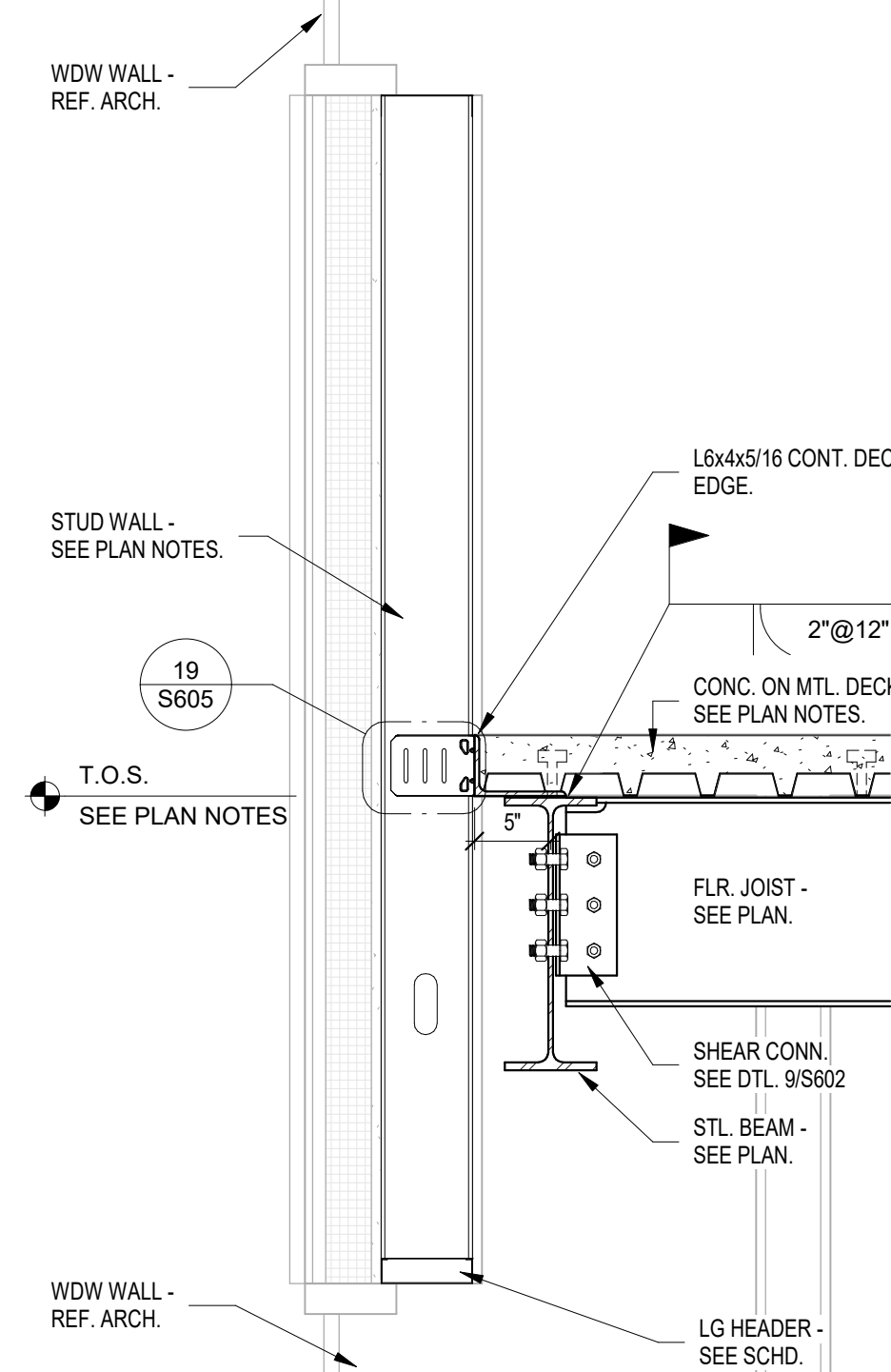
STRUCTURAL DETAILS

S601

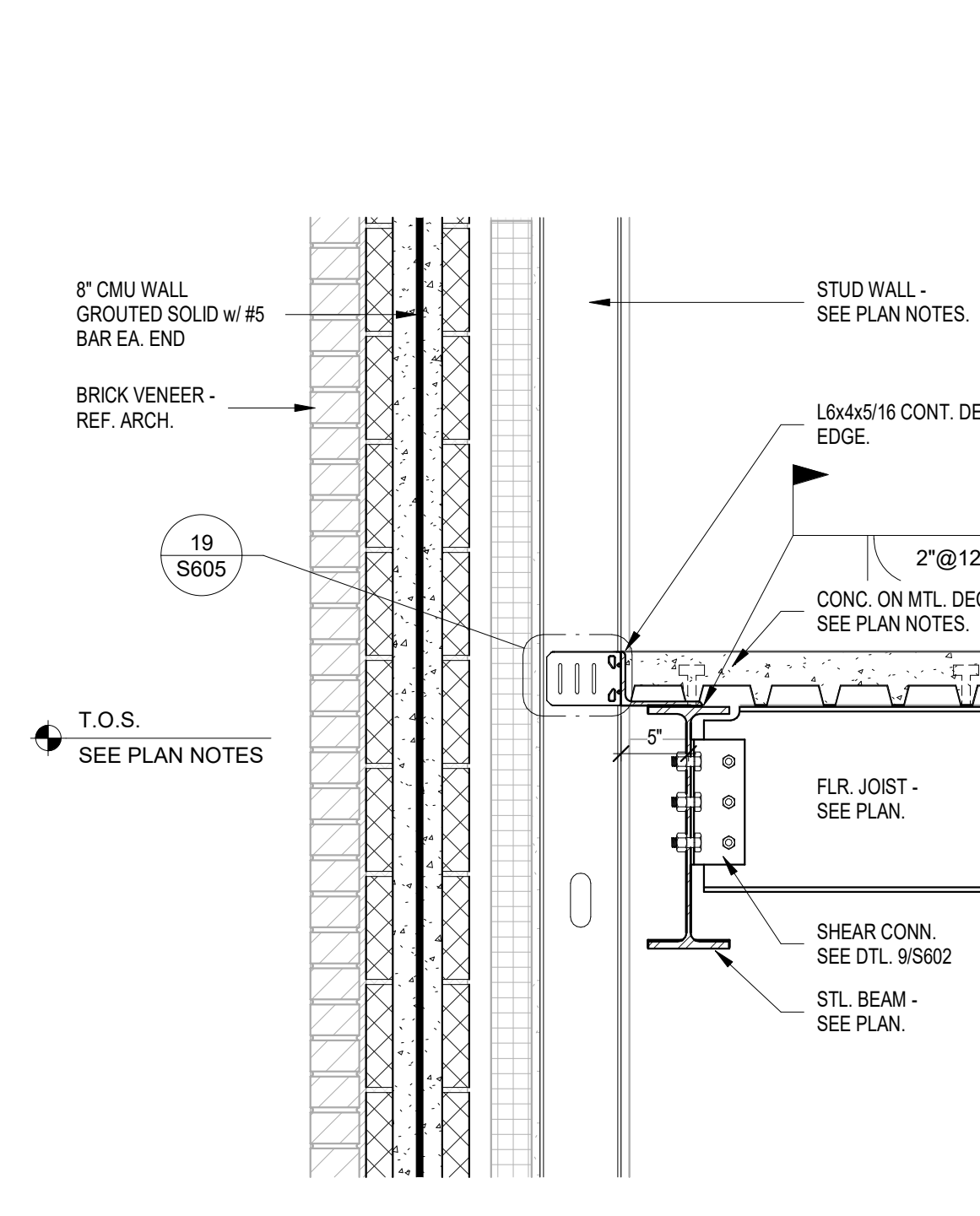




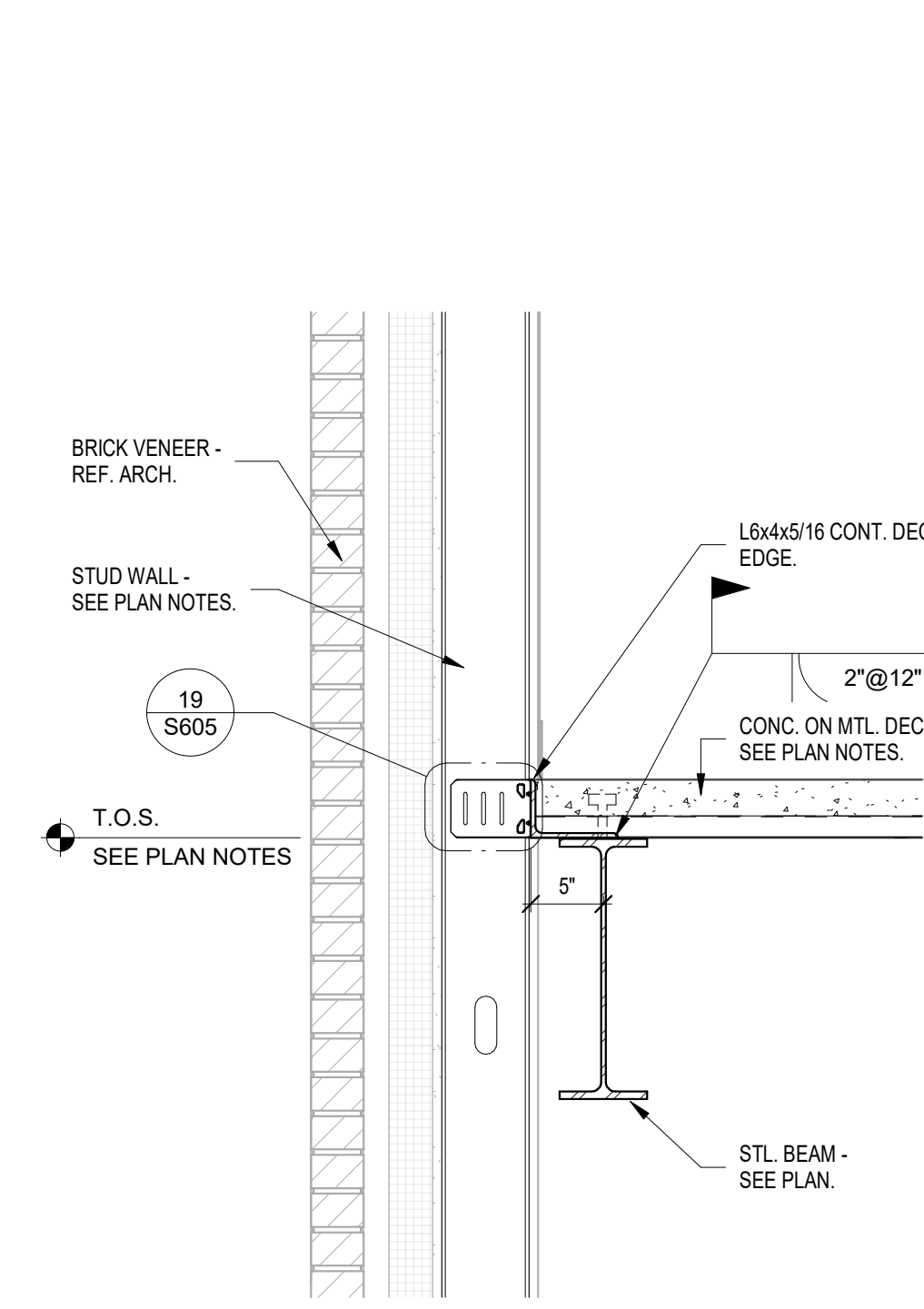
1 FLR. BM. BEARING @ EXT. WALL 1  
1" = 1'-0"



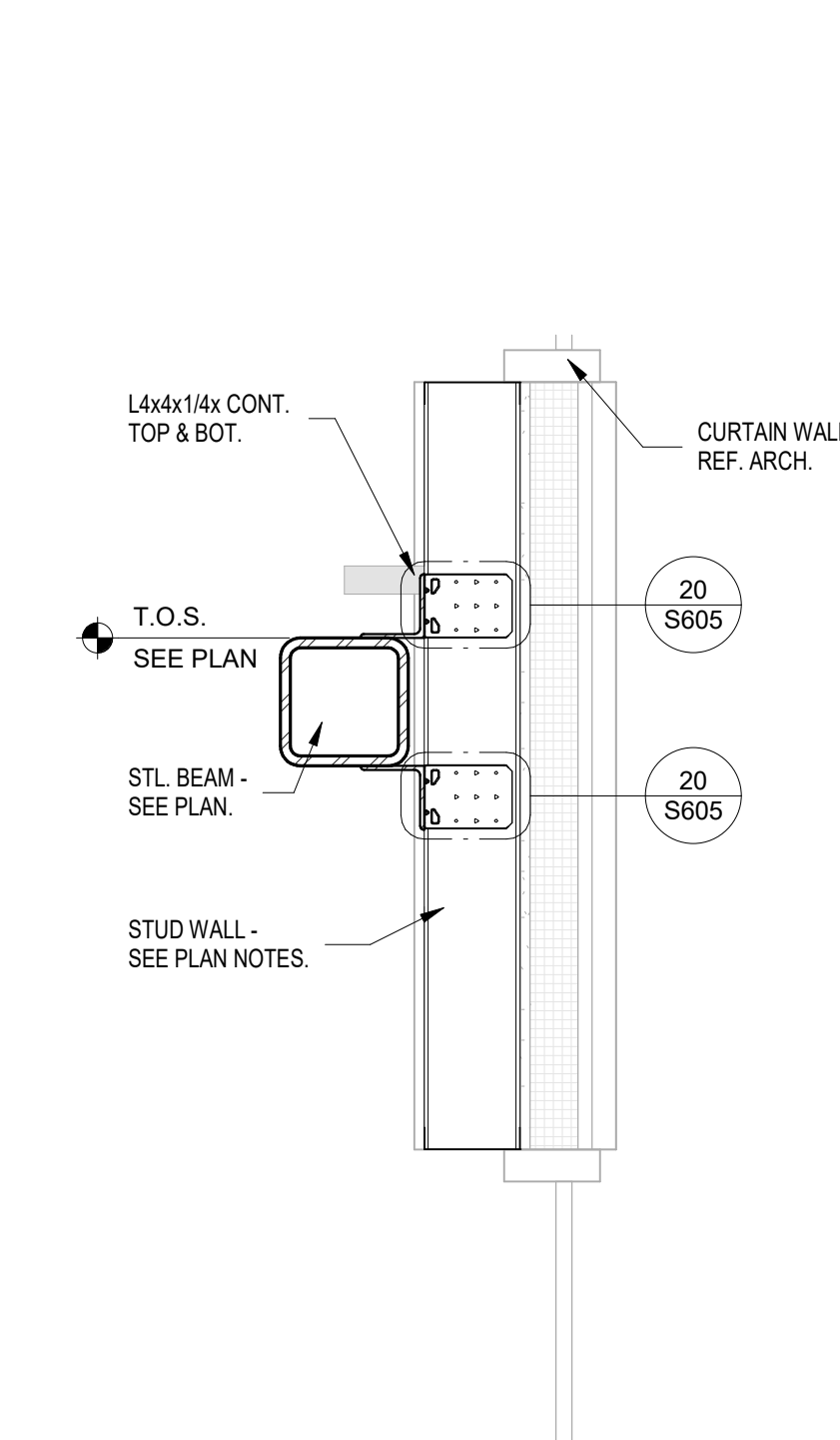
2 FLR. BM. BEARING @ EXT. WALL 2  
1" = 1'-0"



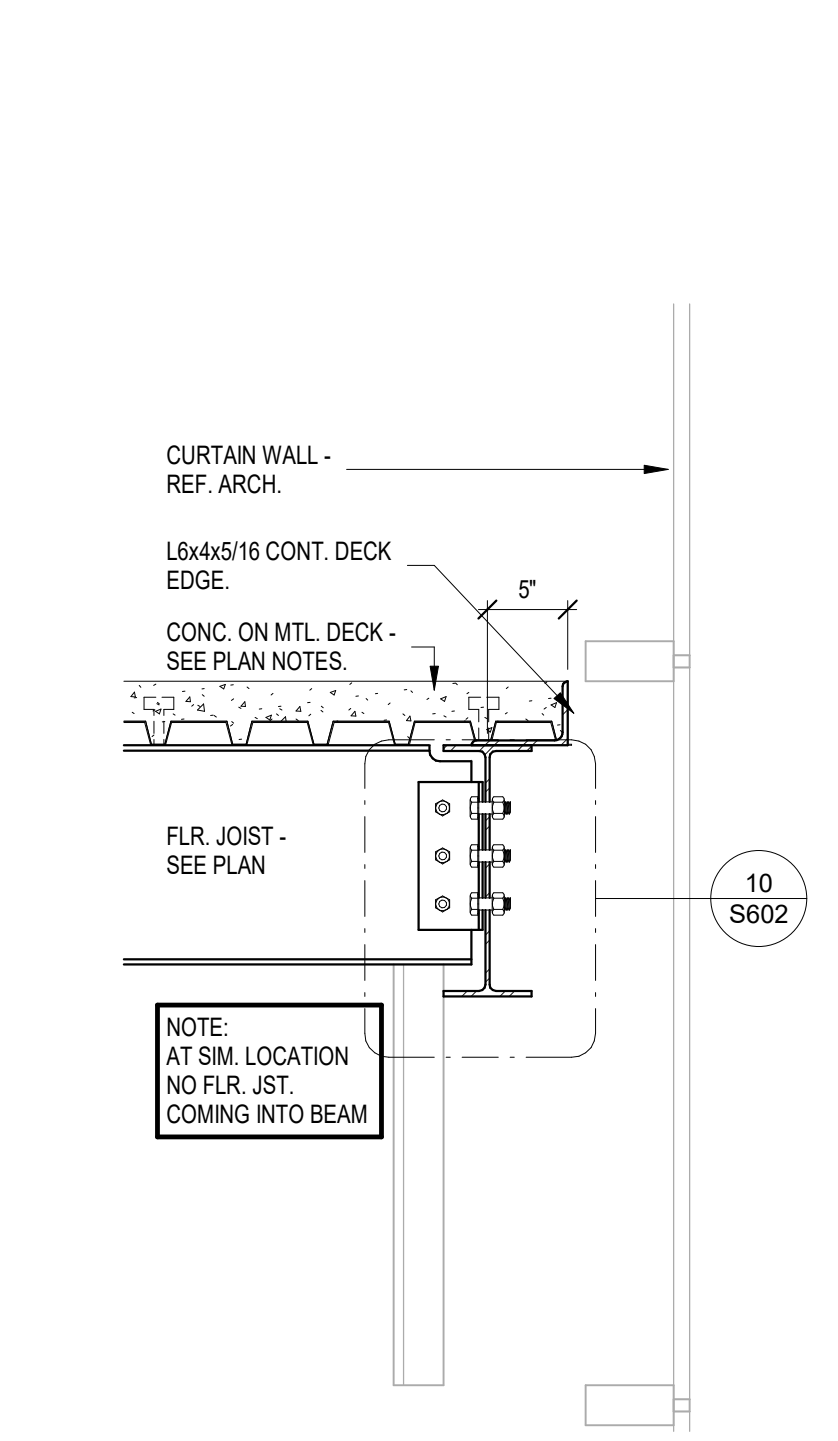
3 FLR. BM. BEARING @ EXT. WALL 3  
1" = 1'-0"



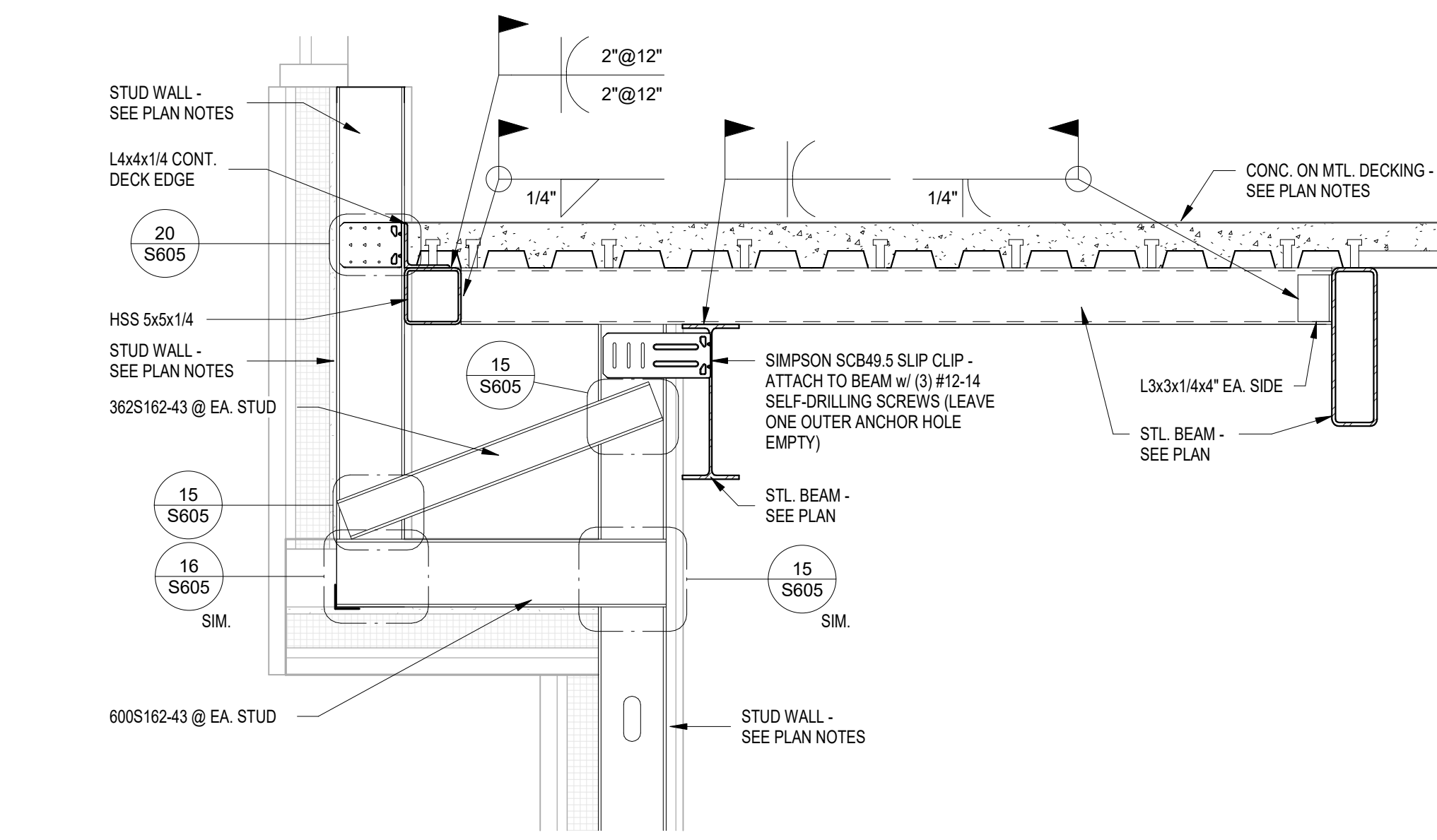
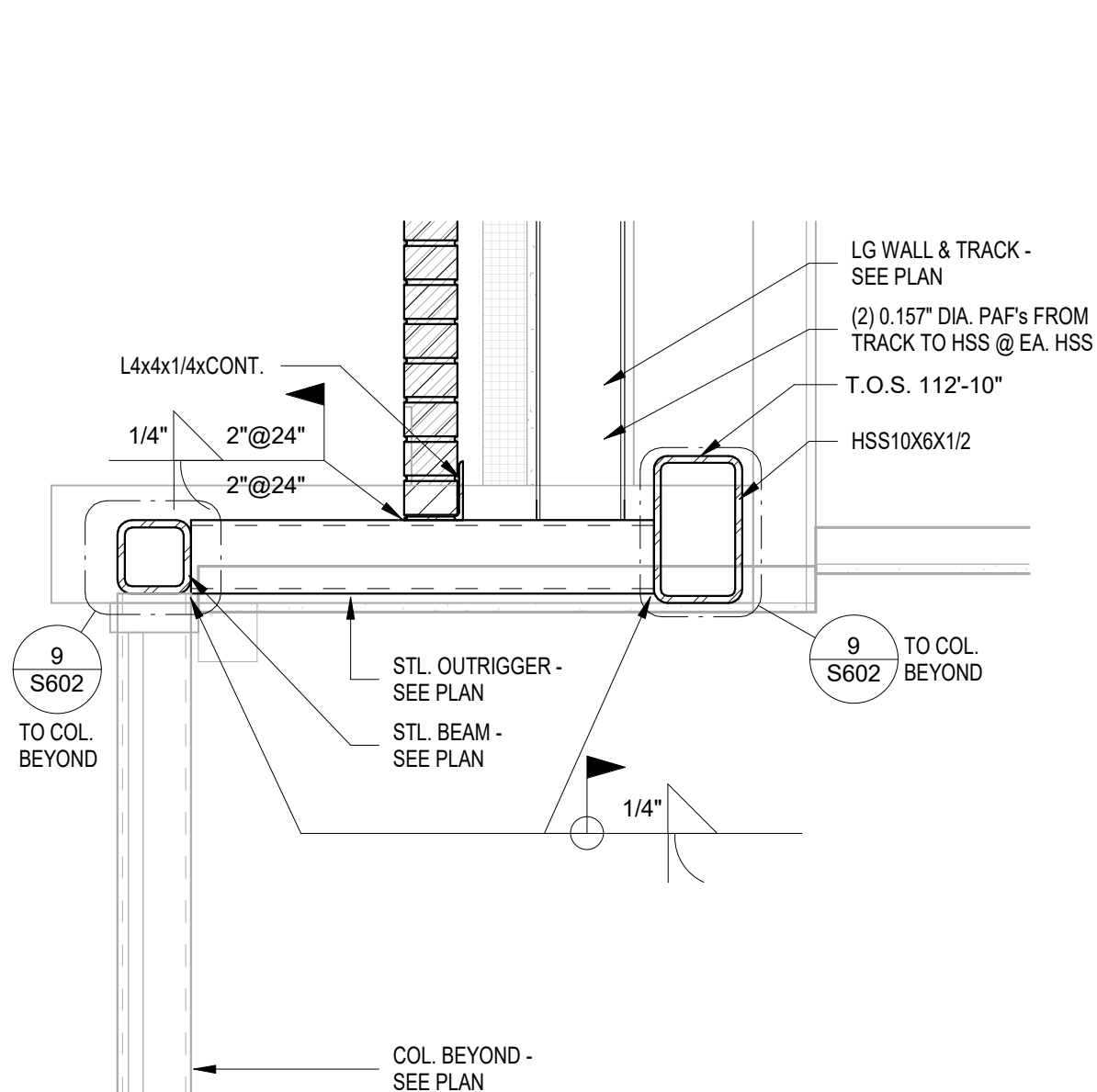
4 FLR. DECK BRG. @ EXT. WALL  
1" = 1'-0"



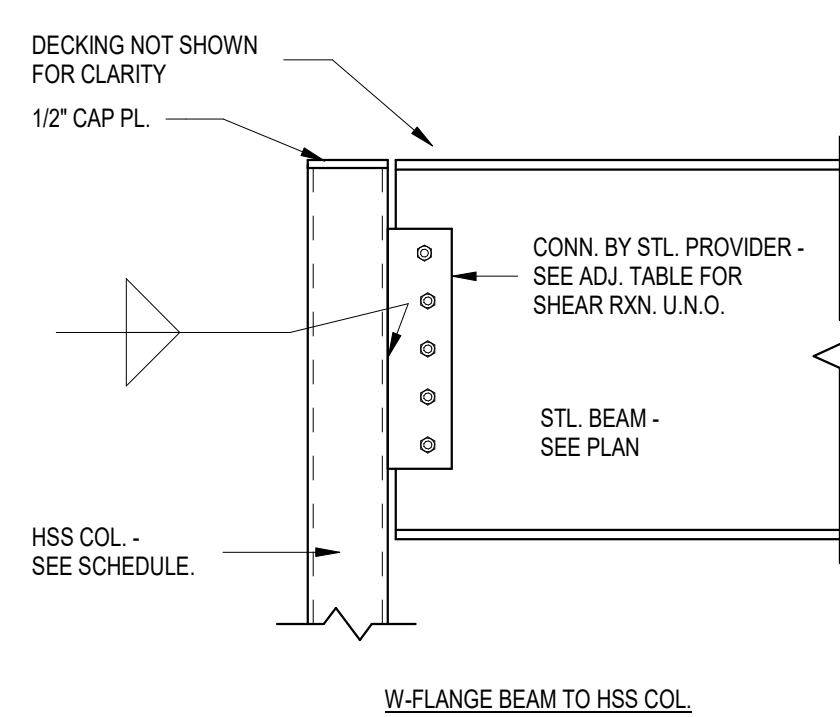
5 STL. BM. @ CURTAIN WALL  
1" = 1'-0"



6 BM. BRG. @ VESTIBULE  
1" = 1'-0"

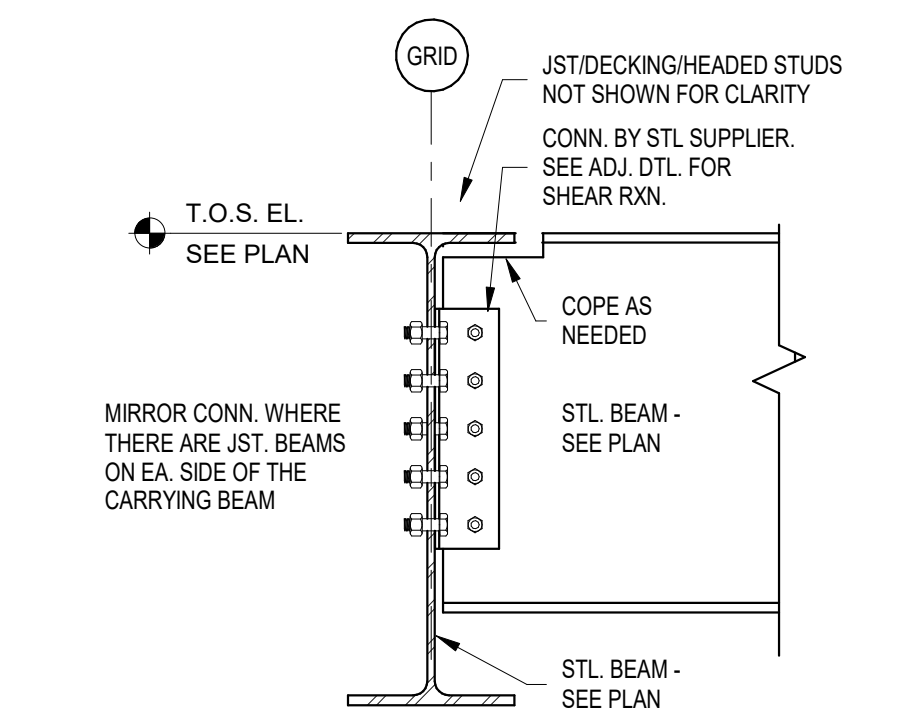
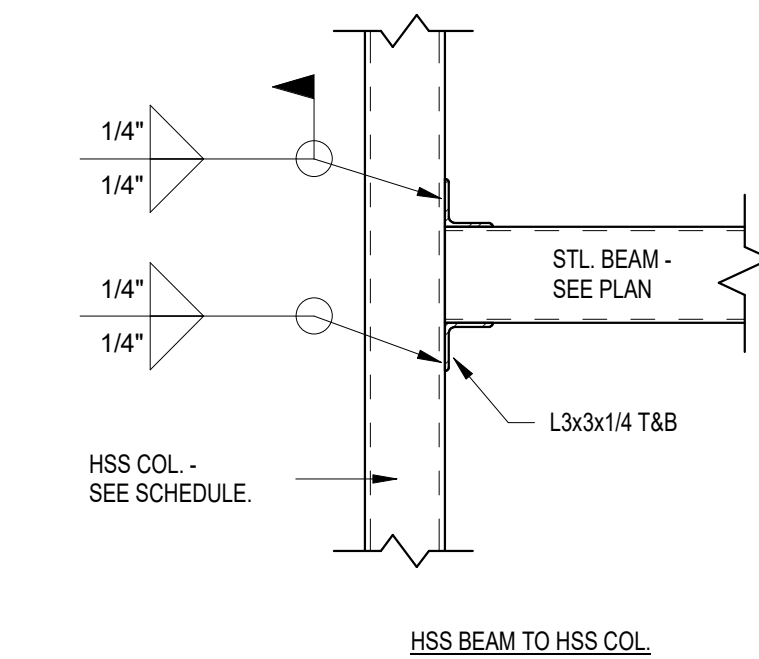


8 SECTION @ CANT. FLOOR 1  
1" = 1'-0"

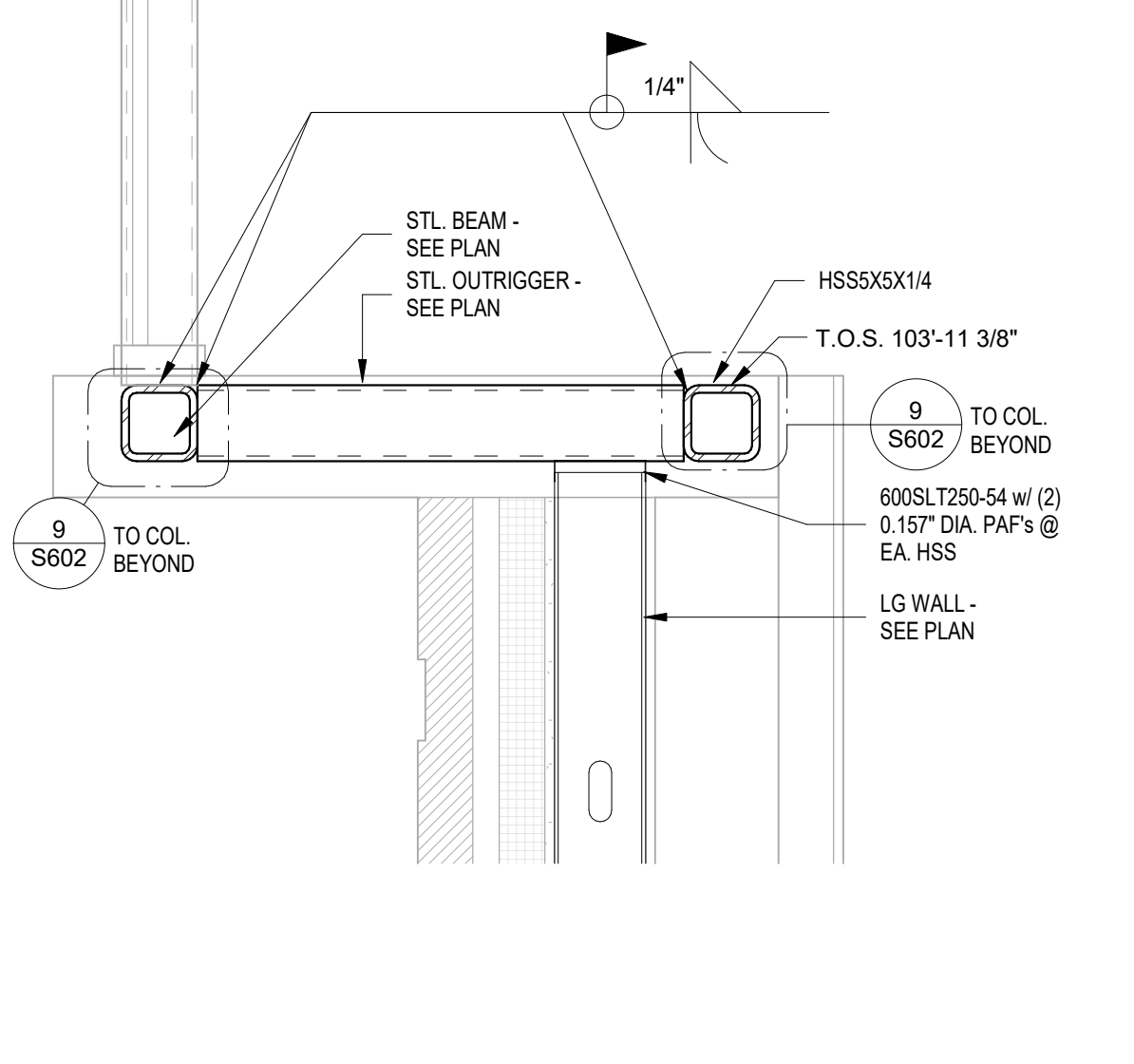


9 COL./BEAM CONN. DETAILS  
1" = 1'-0"

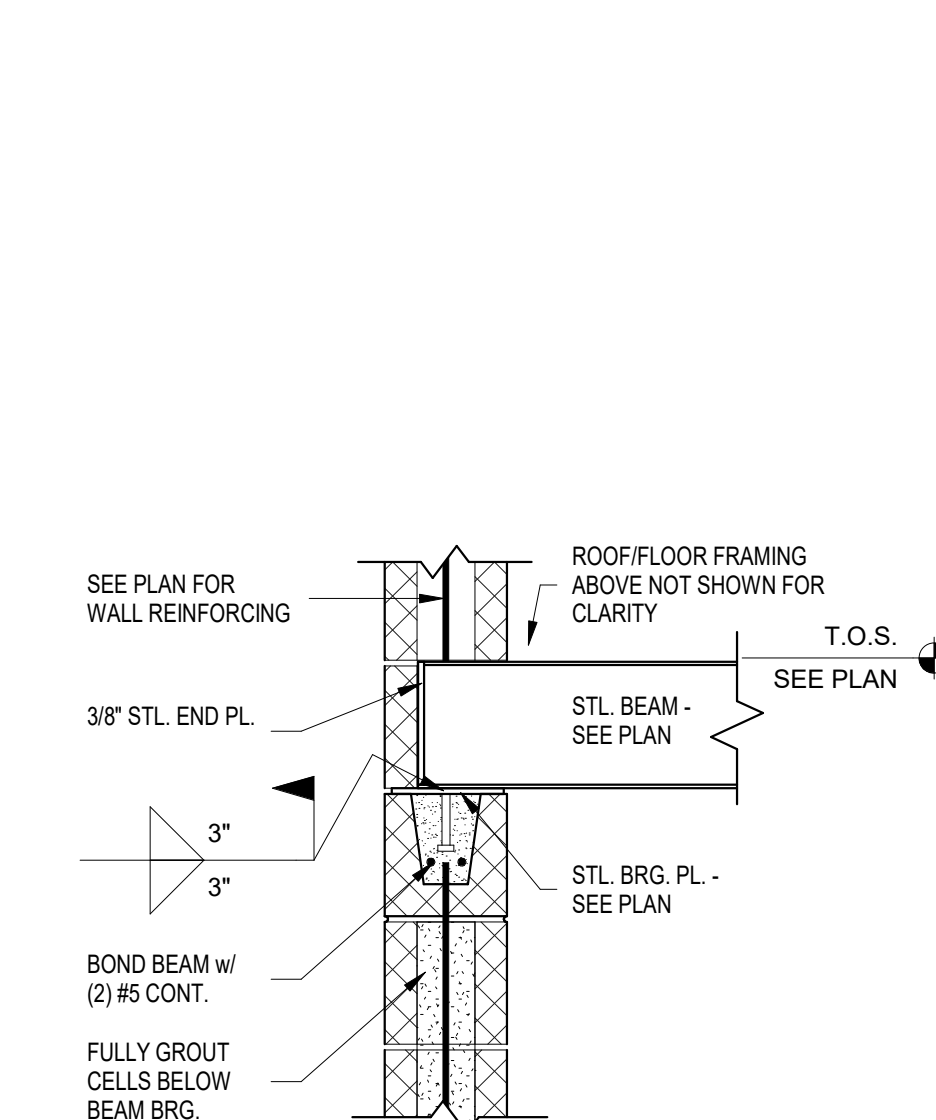
BEAM	RXN.
W8	5KIPS
W12	6.5KIPS
W14	40KIPS
W16	31KIPS
W18	68KIPS
W21	49KIPS
W24	77KIPS
W27	78KIPS
W30	67KIPS
W33	39KIPS
W36	155KIPS
W40	77KIPS



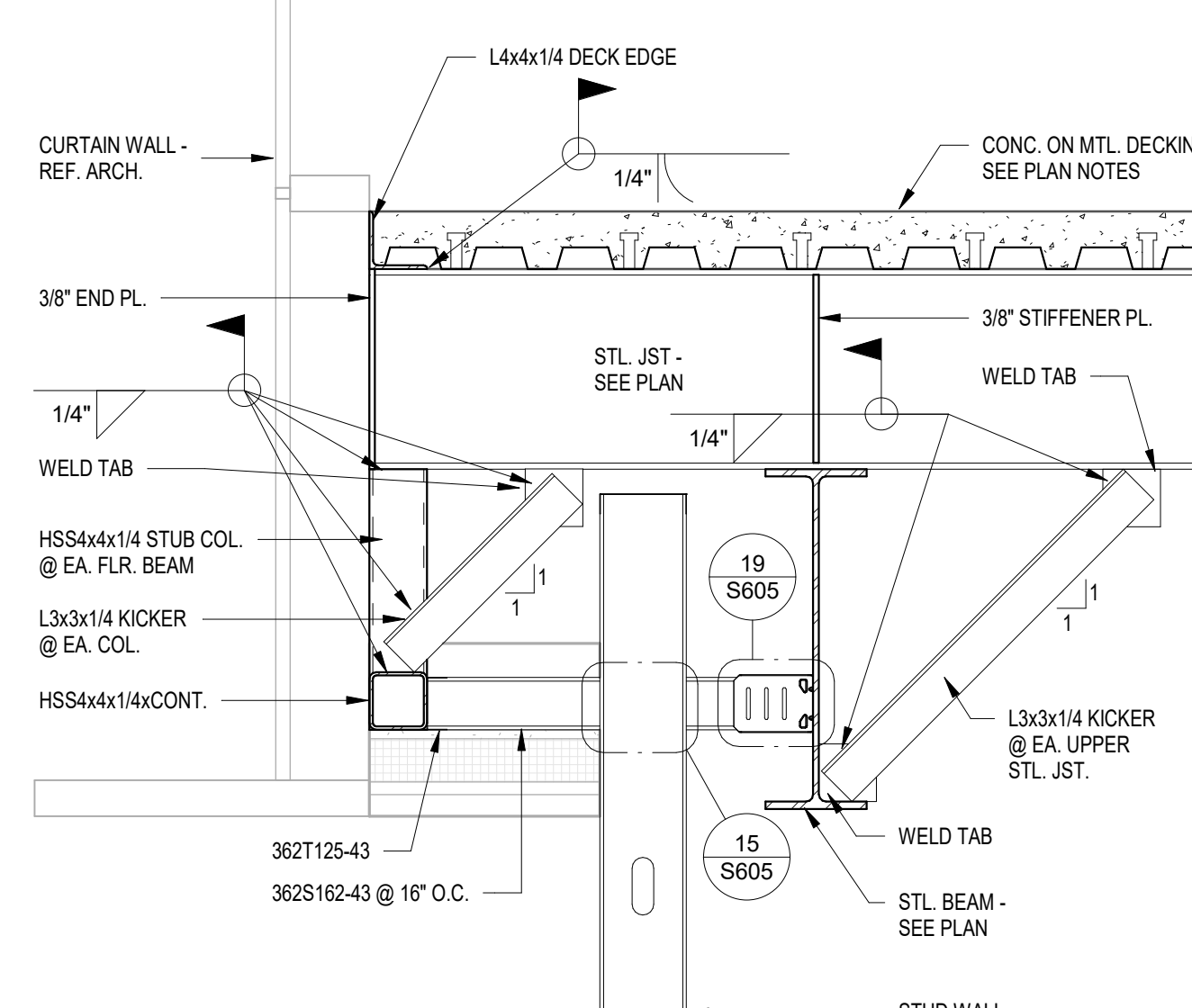
10 TYP. BM. TO BM. CONN. DETAIL  
1" = 1'-0"



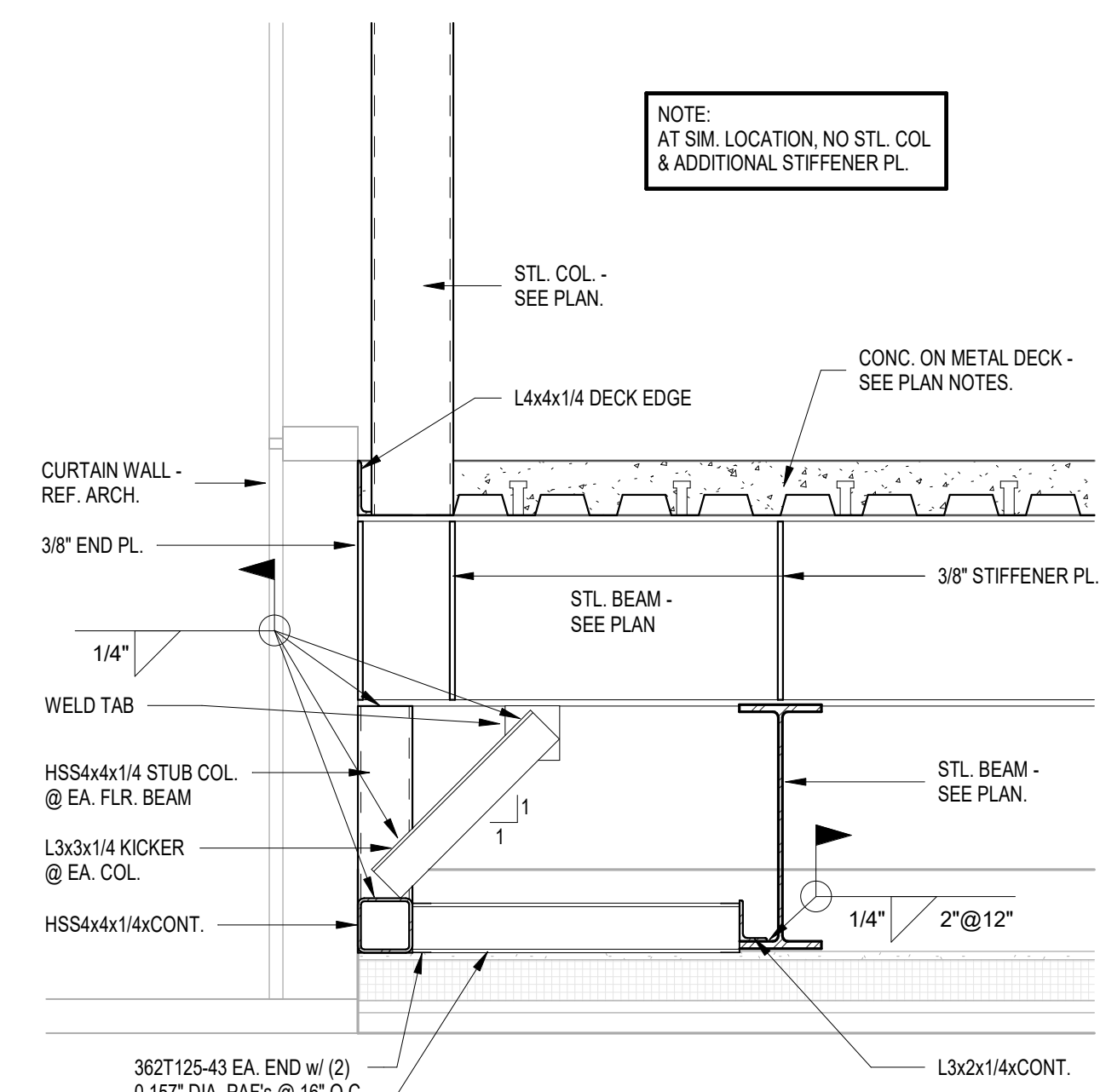
7 SECTION @ WINDOW BAY  
1" = 1'-0"



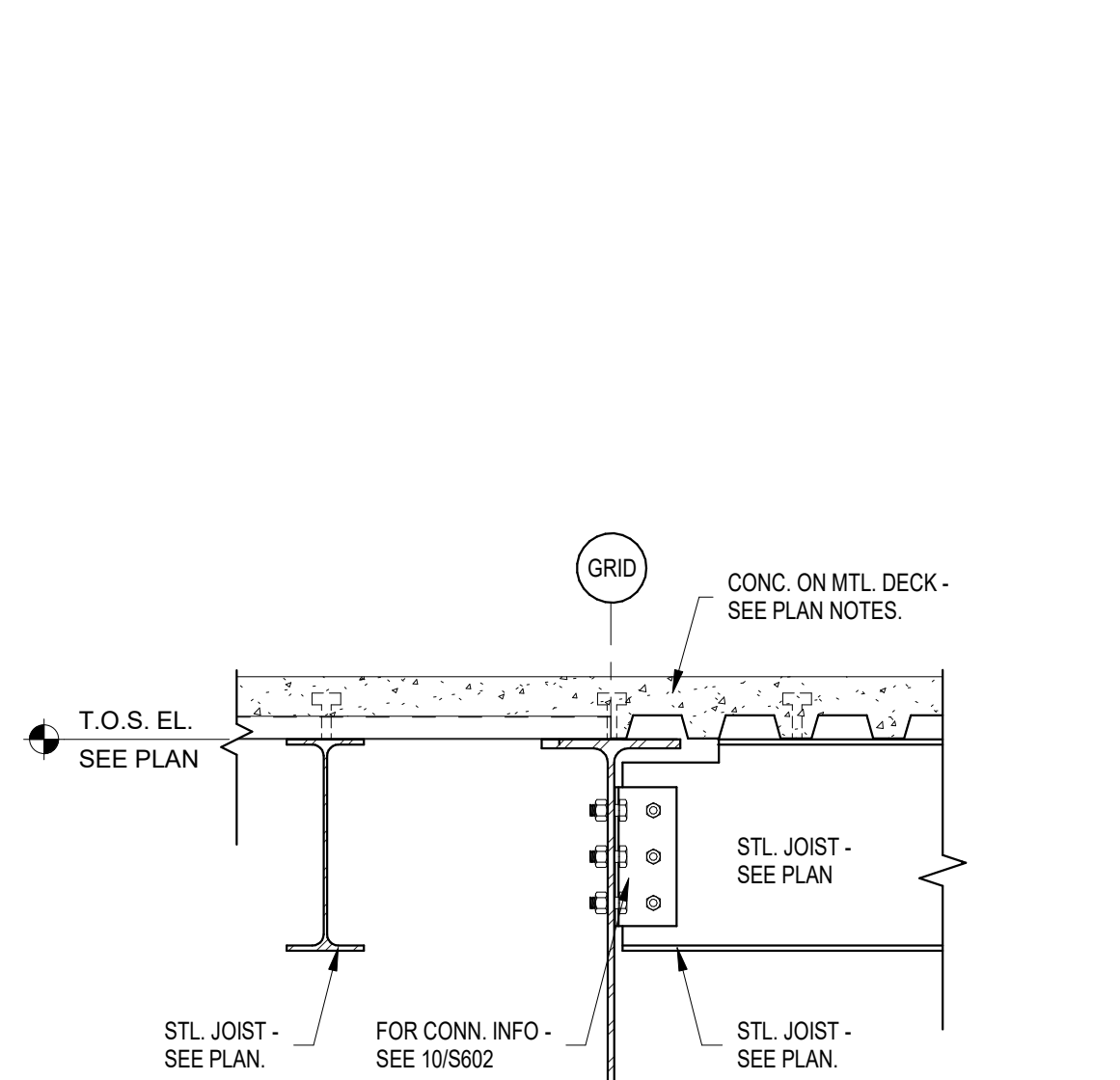
11 STL. BEAM BRG. @ CMU  
1" = 1'-0"



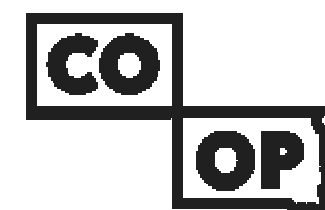
12 CANT. BEAM @ 2ND FLR. DTL.  
1" = 1'-0"



13 CANTILEVER BM. DTL. 2  
1" = 1'-0"



14 FLR. DECK SPAN CHANGE  
1" = 1'-0"



AndersonMasonDale Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4952  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-259-1205  
E-mail: lputw@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-225-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: traviss@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.hernz@imegcorp.com

Seal Issue Date  
100% CD 09 APRIL 2024

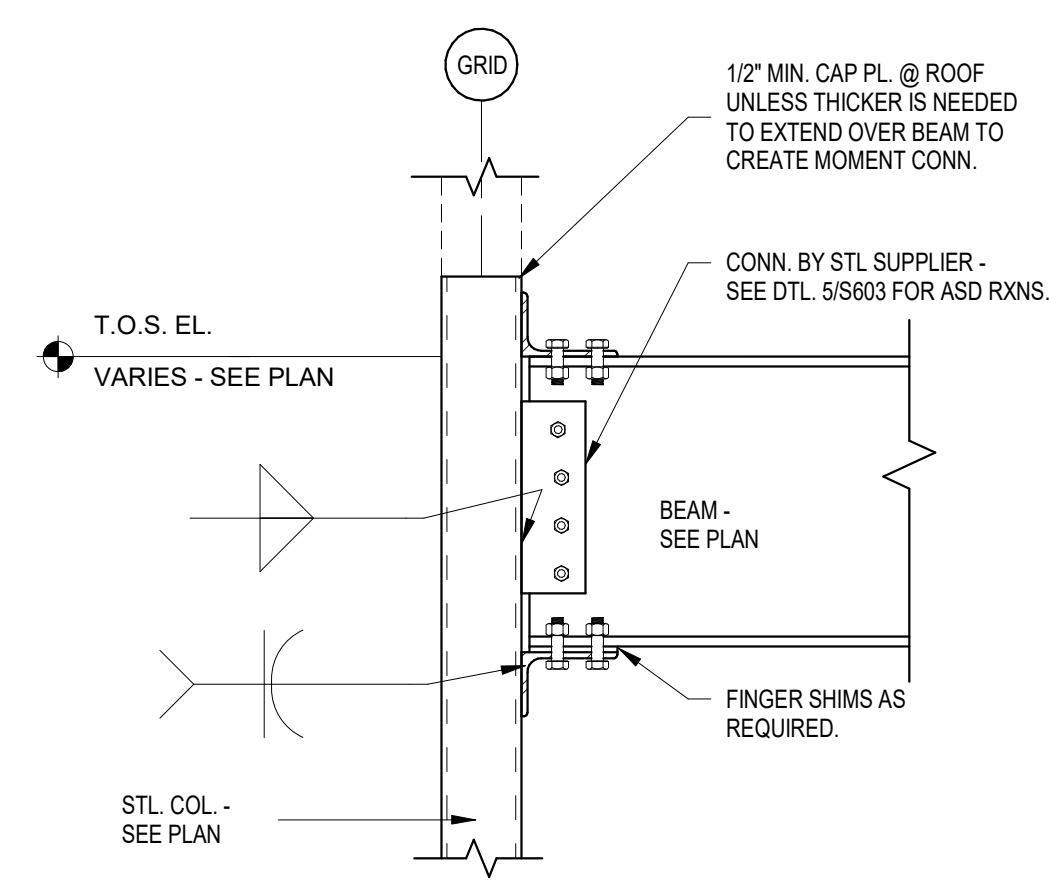
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1203 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

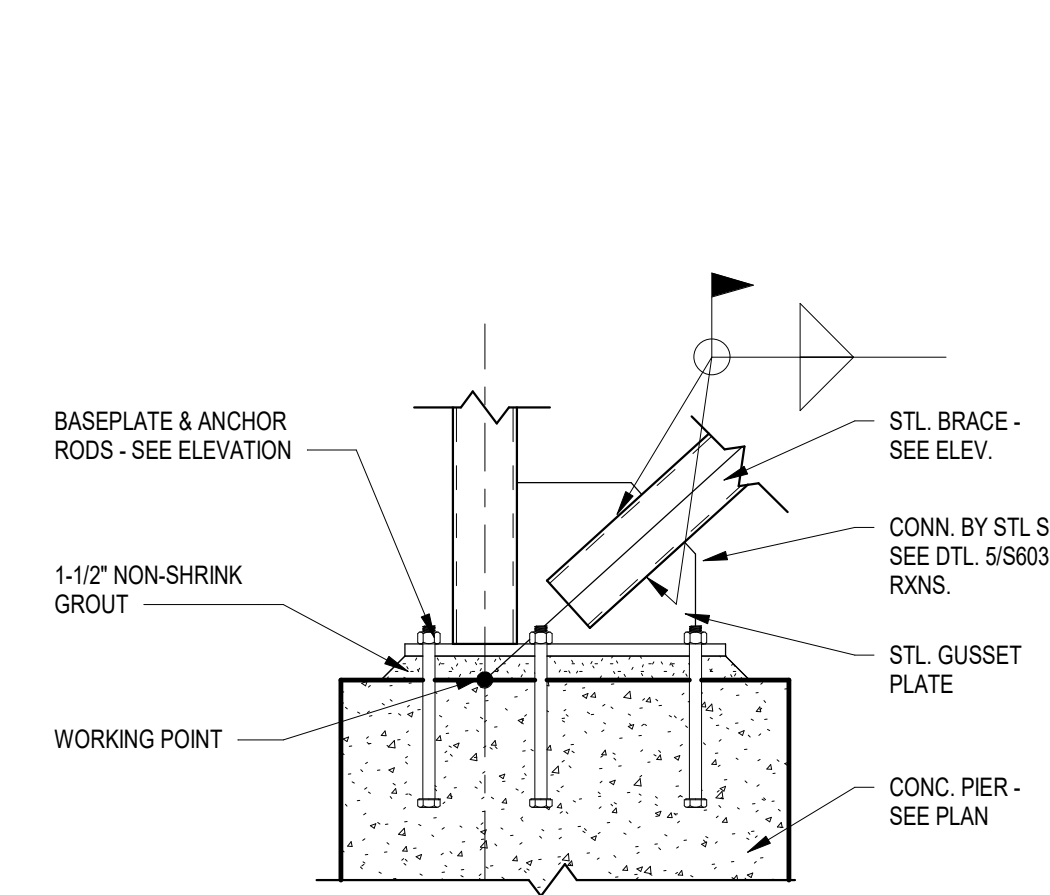
STRUCTURAL DETAILS

S602

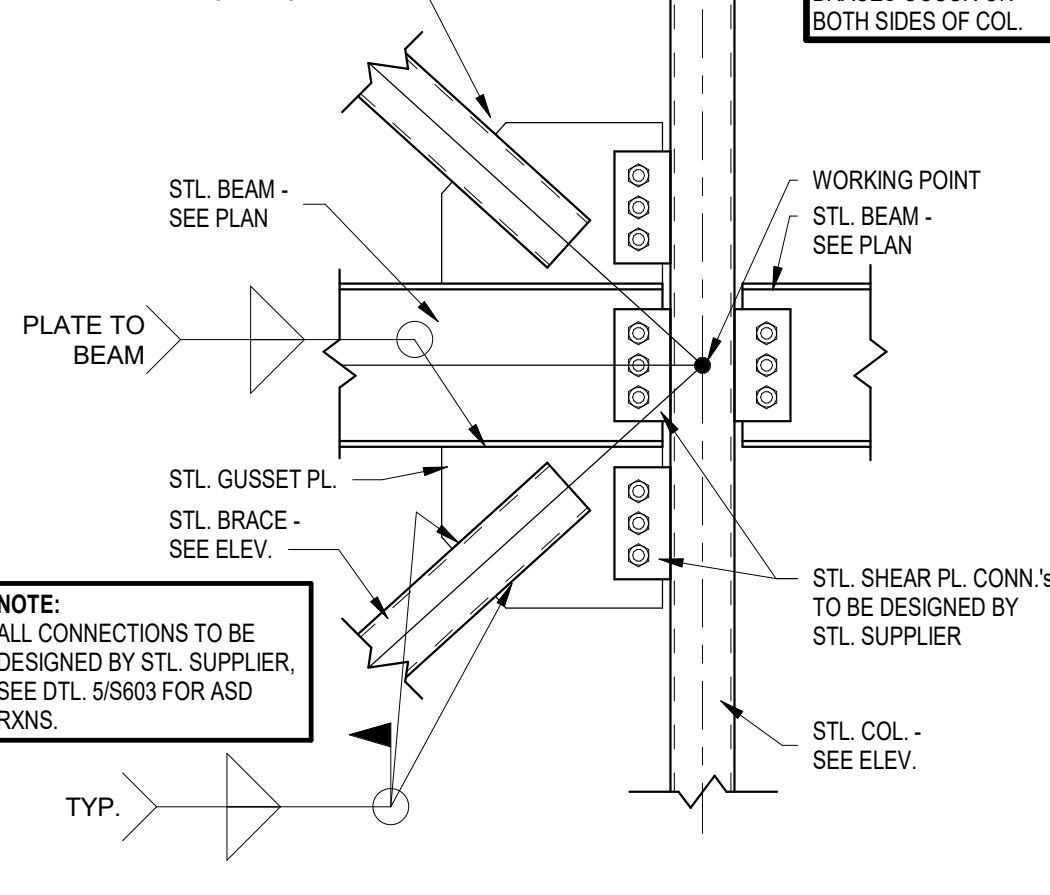




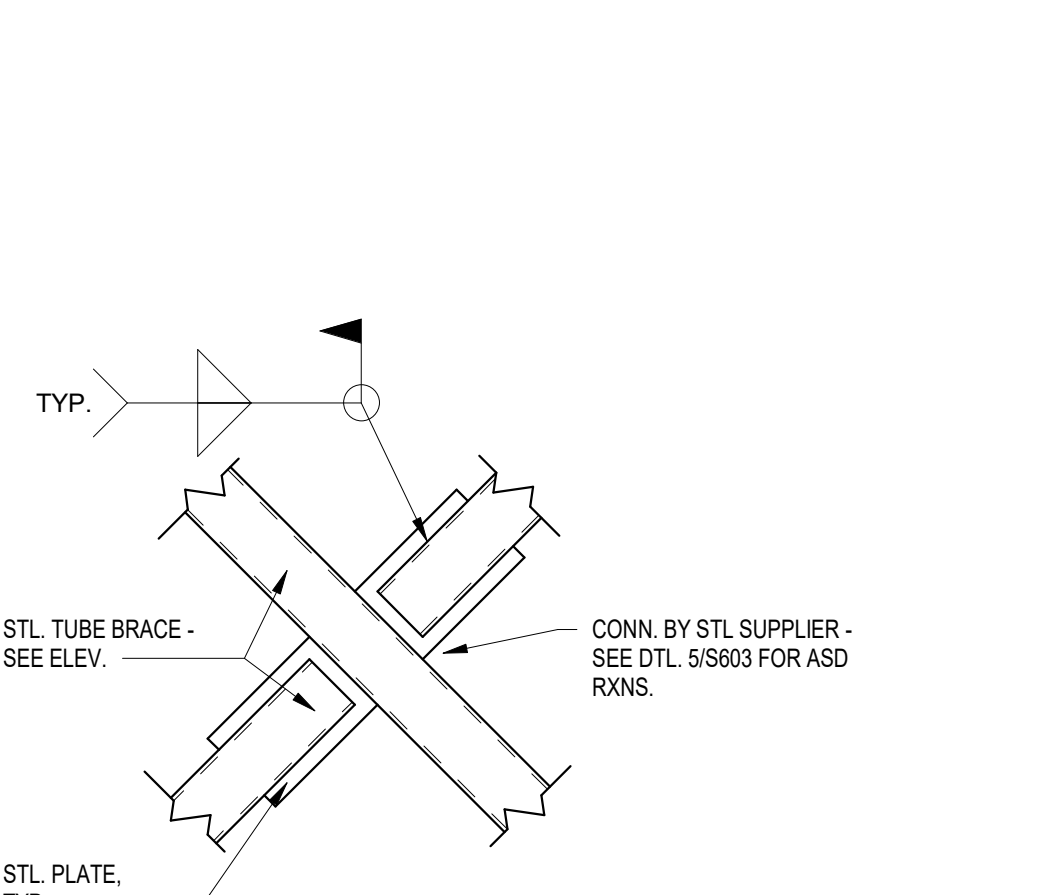
1 MOMENT CONN. DETAIL (TO HSS)  
1" = 1'-0"



2 BRACE @ BASEPLATE  
1" = 1'-0"



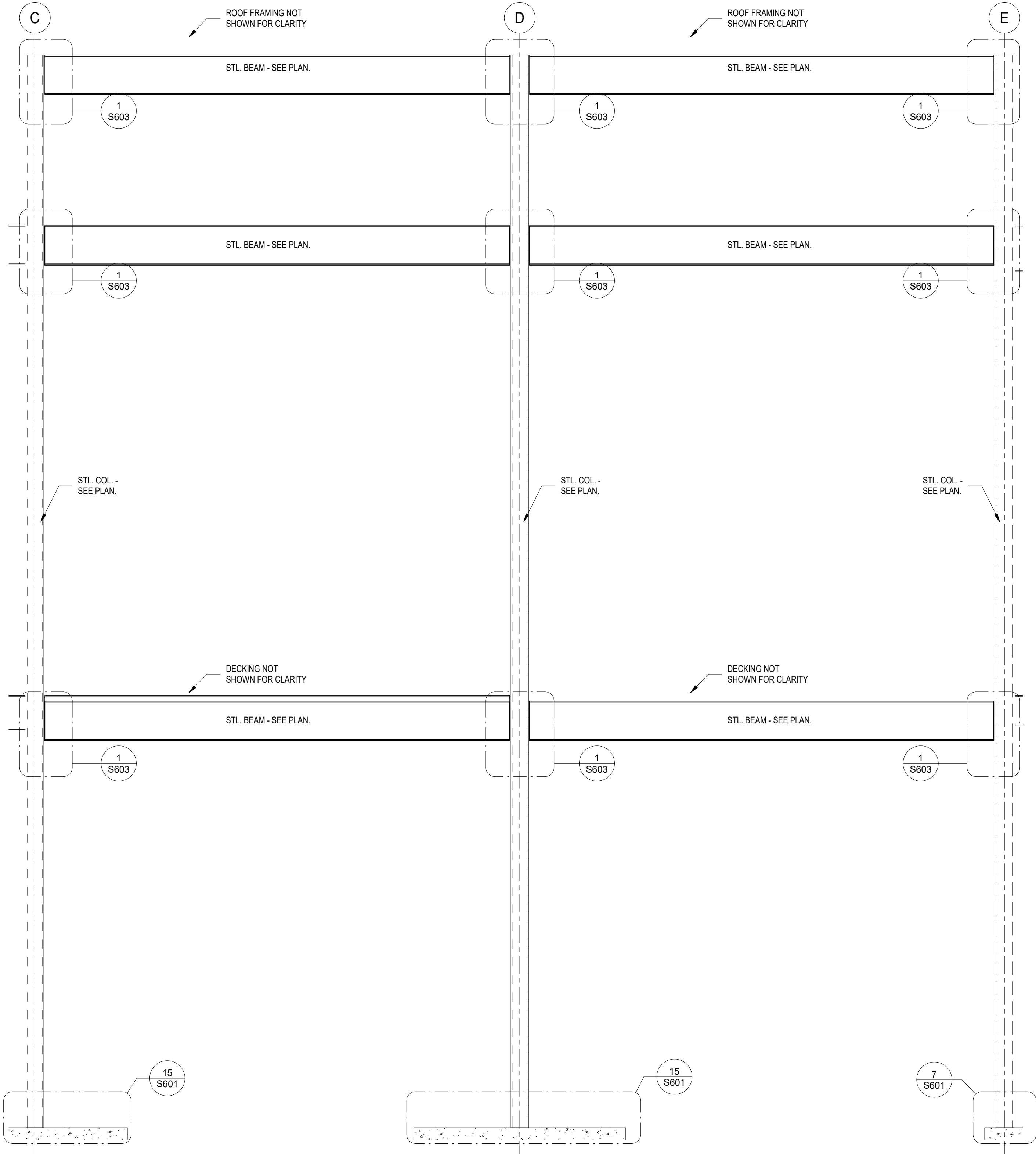
3 BRACE @ STL. BEAM  
1" = 1'-0"



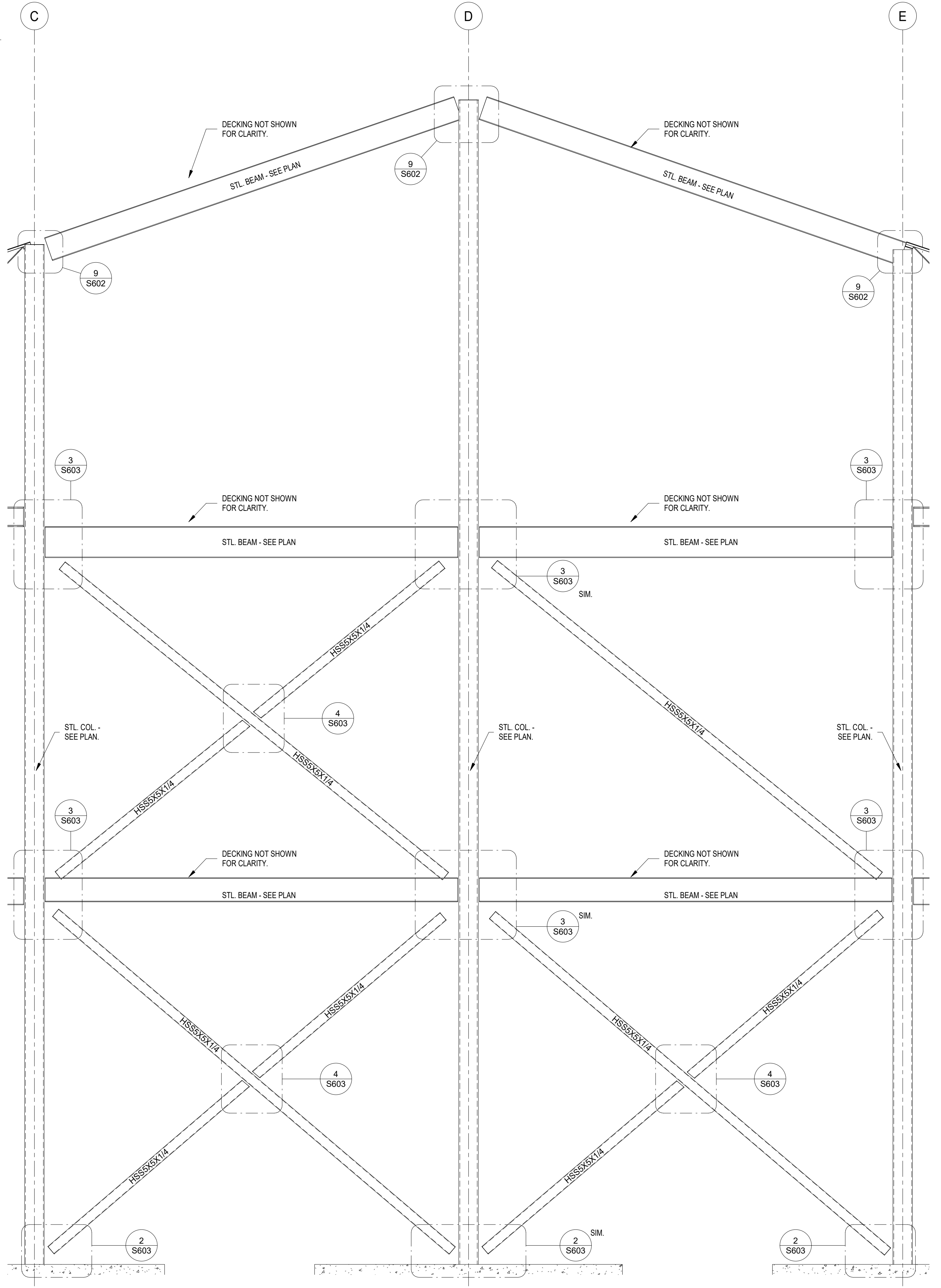
4 BRACE SPLICE  
1" = 1'-0"

BRACE FRAME MEMBER RXN. TABLE				
BRACE FRAME	BRACE AXIAL RXN (ASD)	COL. AXIAL RXN (ASD)	BEAM SHEAR RXN (ASD)	BEAM MOMENT RXN (ASD)
BRACE "A"	-	90 KIPS	15 KIPS	56 KIP-FT
BRACE "B"	30 KIPS	190 KIPS	8 KIPS	-
BRACE "C"	26 KIPS	238 KIPS	12 KIPS	-
BRACE "D1"	15 KIPS	48 KIPS	15 KIPS	-
BRACE "D2"	23 KIPS	83 KIPS	12 KIPS	-
BRACE "D3"	16 KIPS	57 KIPS	22 KIPS	-
BRACE "D4"	23 KIPS	72 KIPS	36 KIPS	-
BRACE "D5"	20 KIPS	112 KIPS	12 KIPS	-

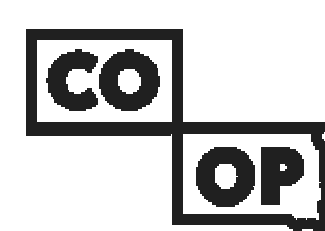
5 BRACED FRAME MEMBER RXN. TABLE  
1" = 1'-0"



6 STL. FRAME 'A' ELEVATION  
3/8" = 1'-0"



7 STL. FRAME 'B' ELEVATION  
3/8" = 1'-0"



AndersonMasonDale Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-224-4982  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

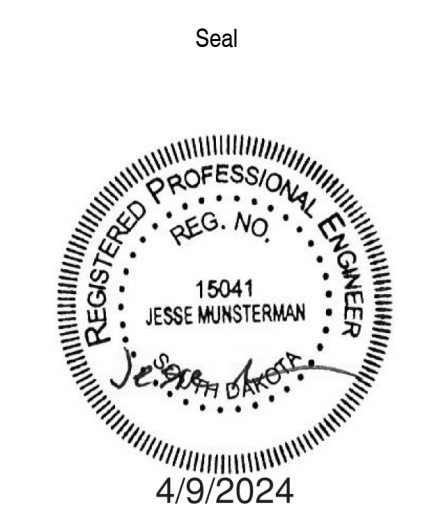
**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-224-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-259-1205  
E-mail: lputwell@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-224-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-224-3344  
E-mail: traviss@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-224-1349  
E-mail: thomas.hernz@imegcorp.com



Seal Issue Date  
100% CD 09 APRIL 2024

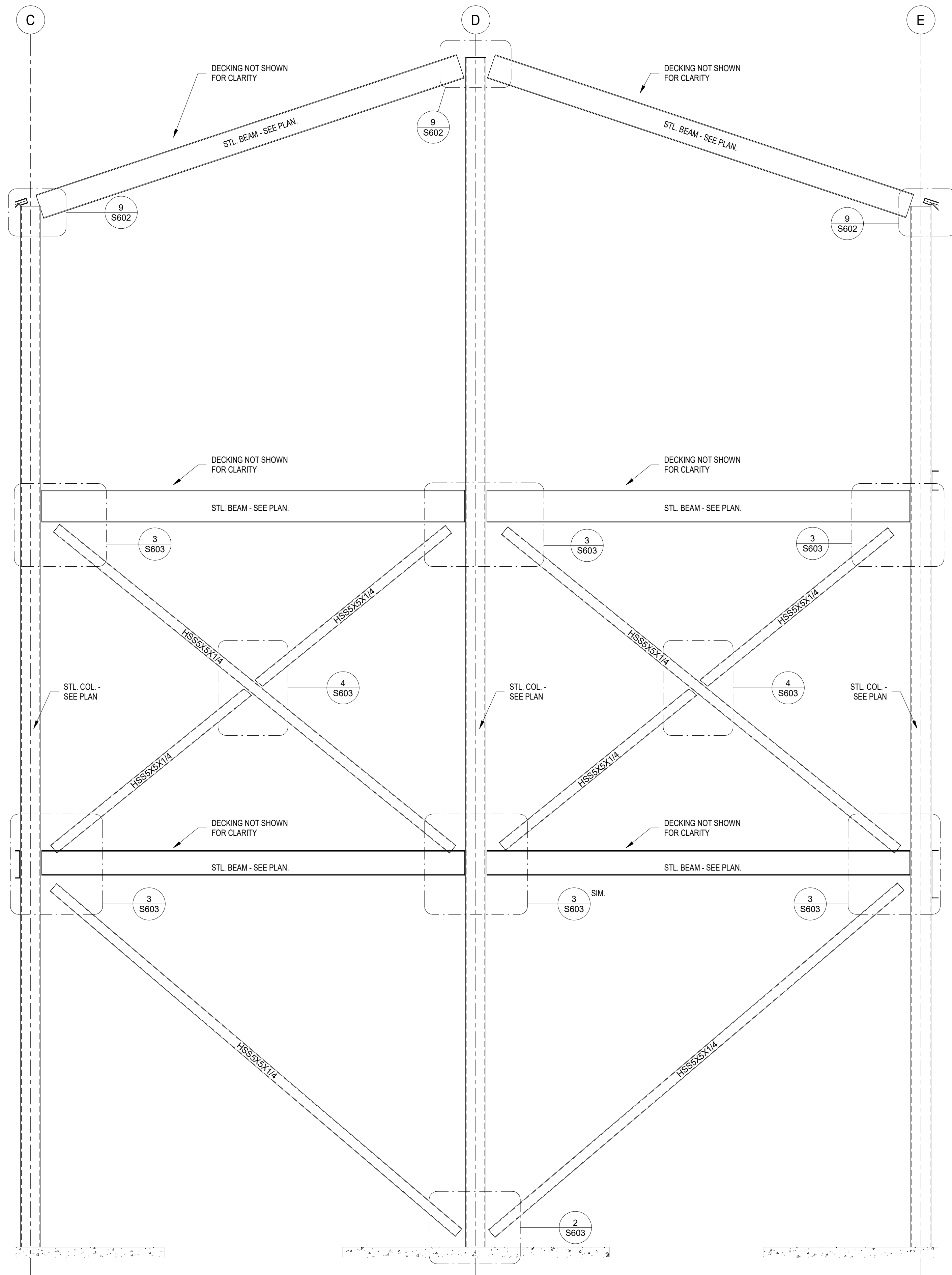
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1200 S. Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

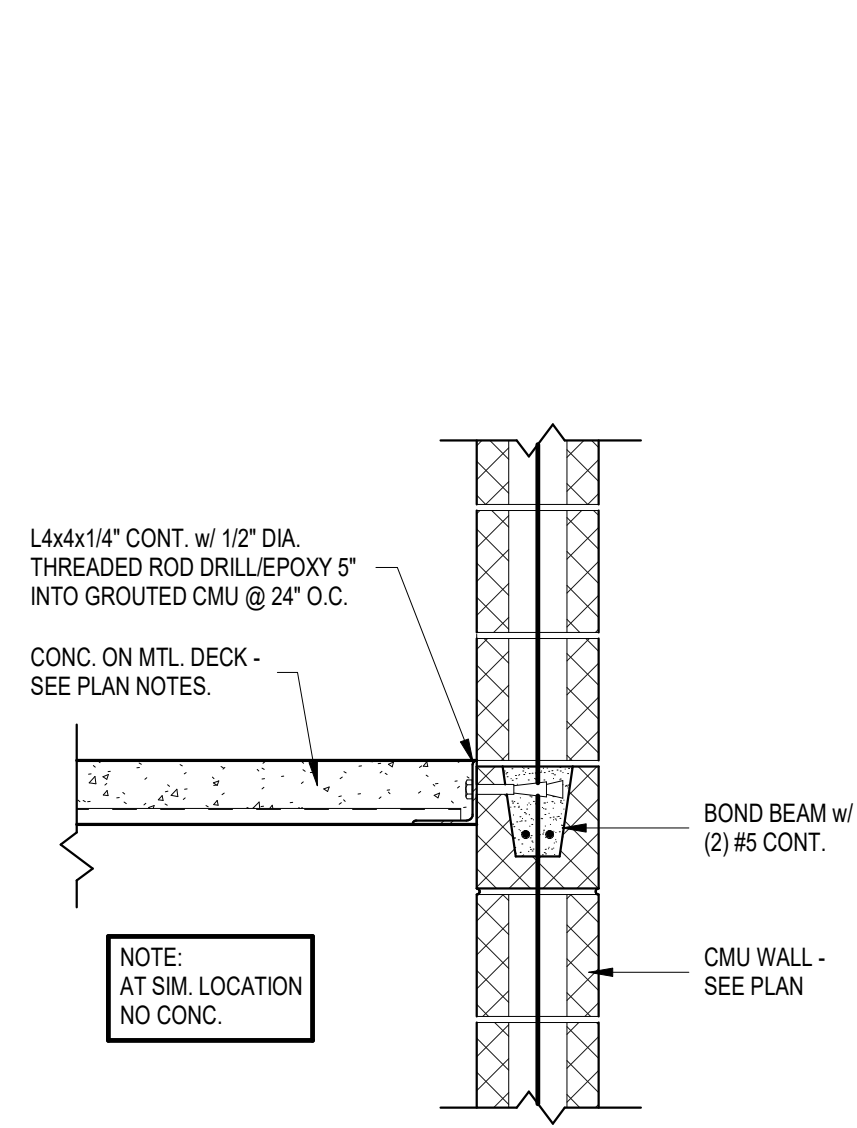
STRUCTURAL DETAILS

S603

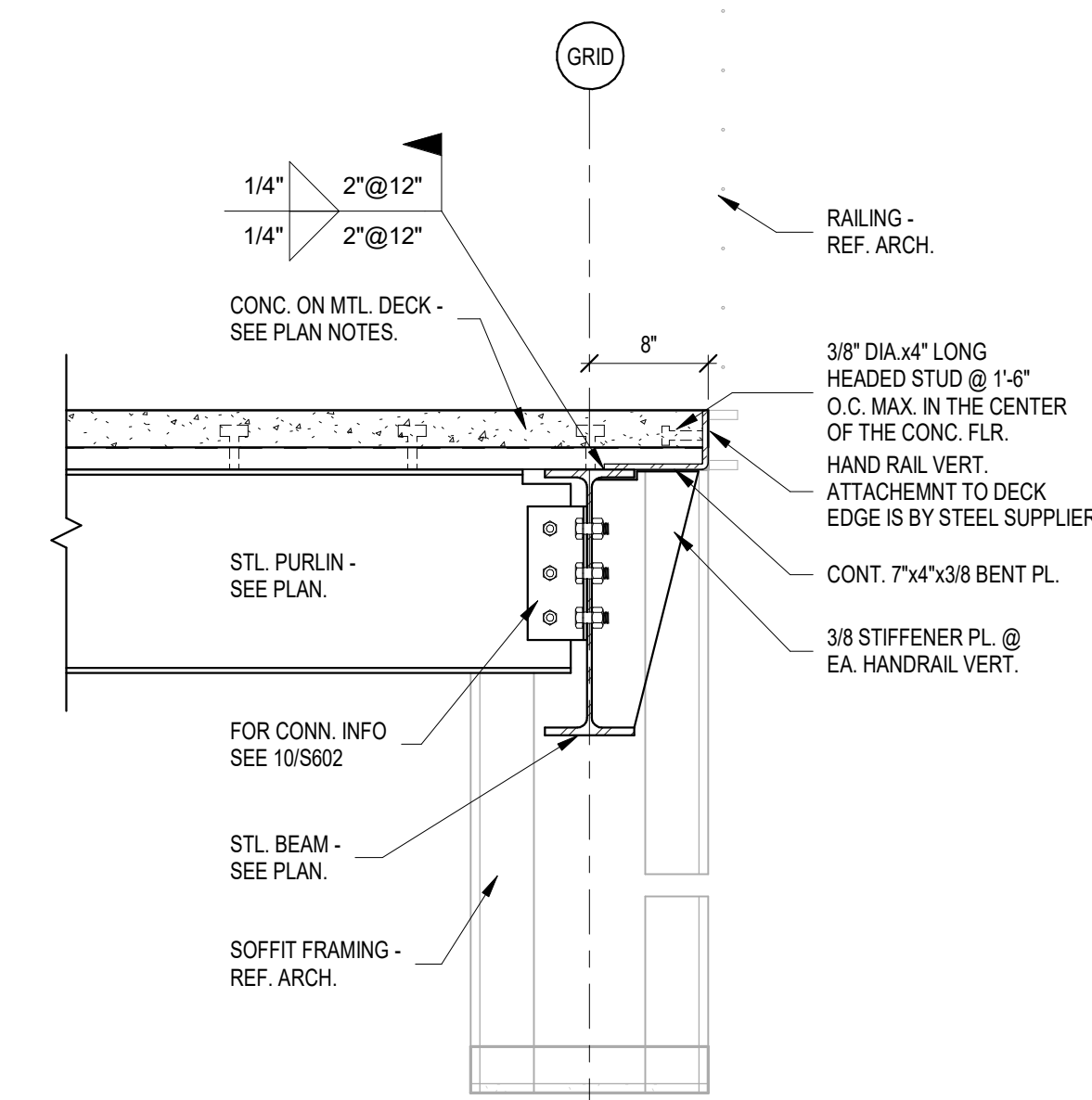




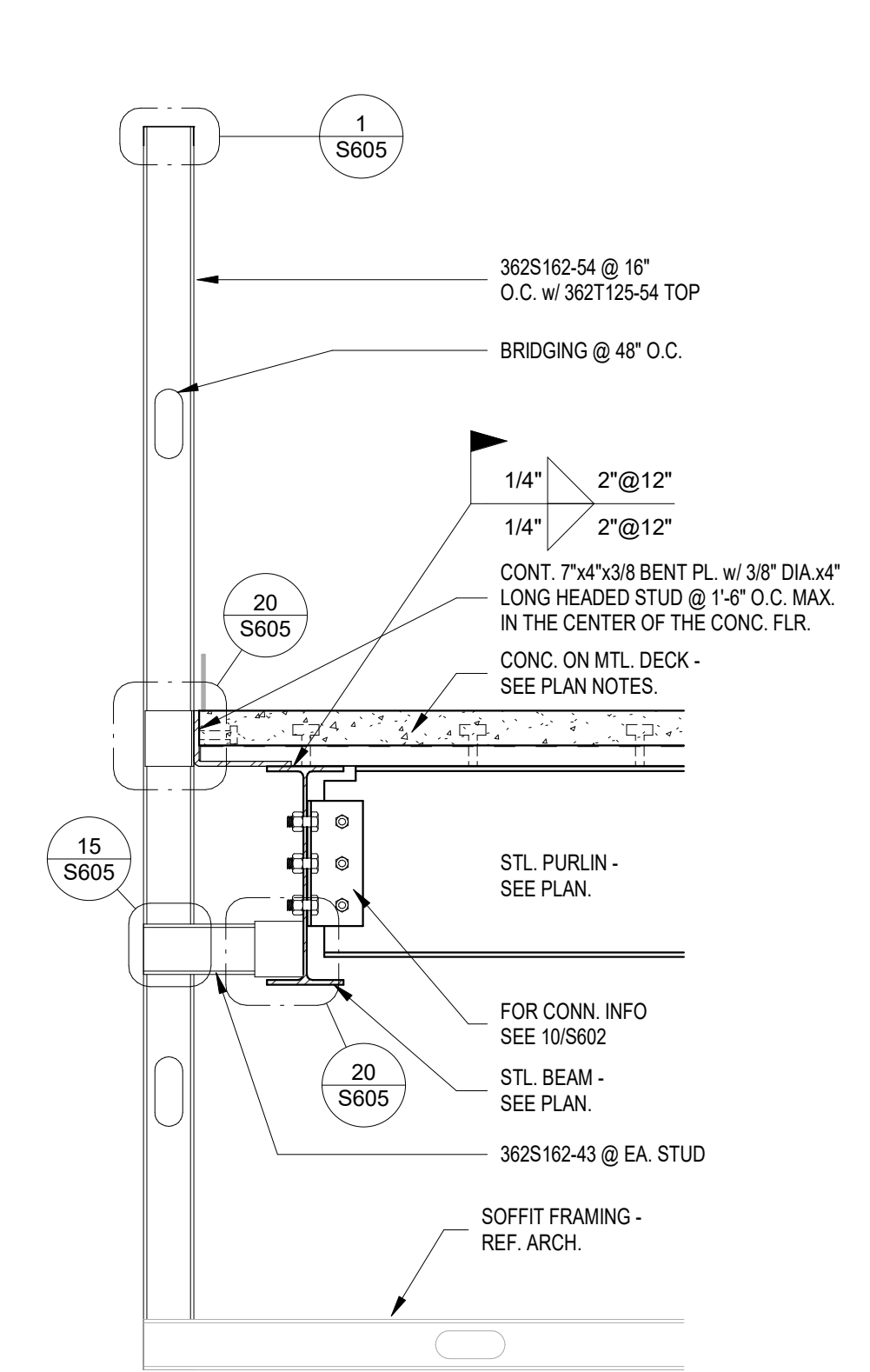
1 STL. FRAME 'C' ELEVATION  
3/8" = 1'-0"



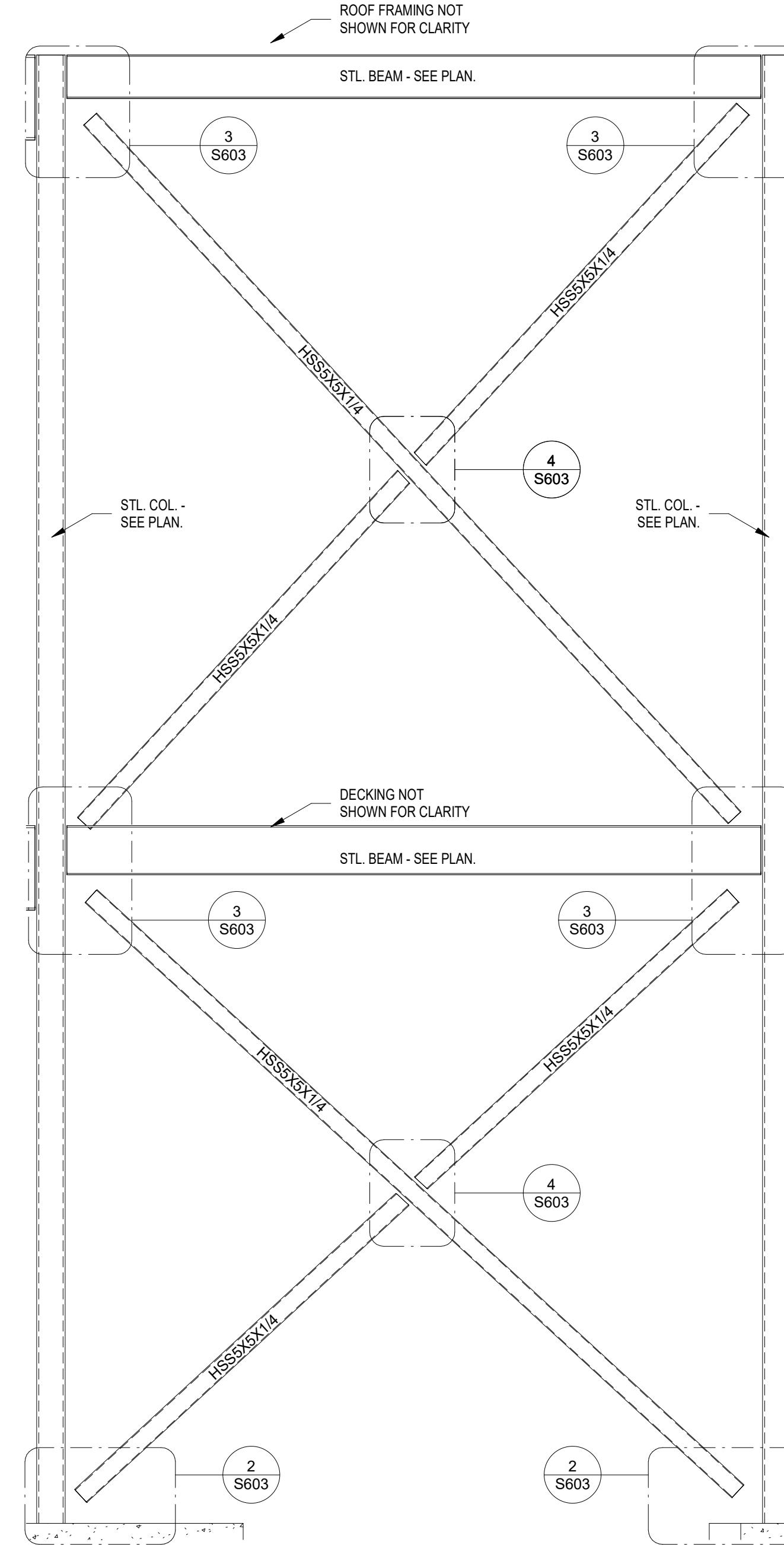
3 FLR. DECK BRG. @ CMU WALL  
1" = 1'-0"



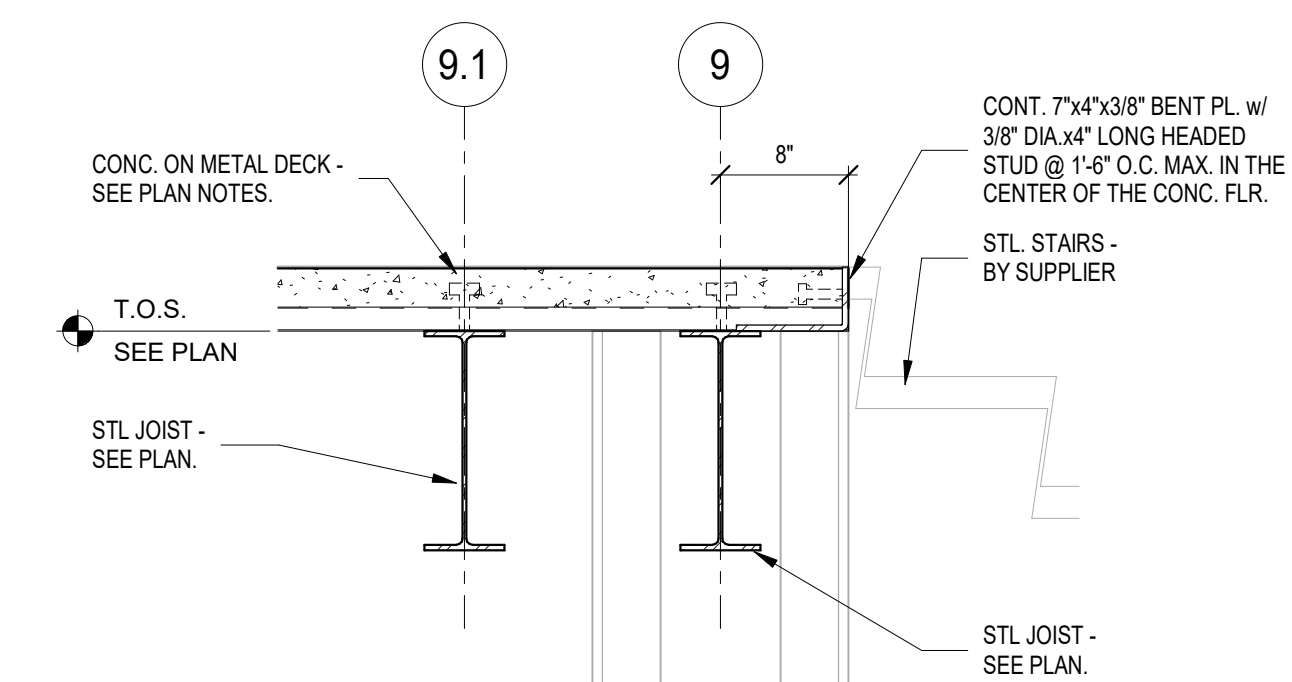
4 FLR. FRAMING @ OPEN-TO-BELOW  
1" = 1'-0"



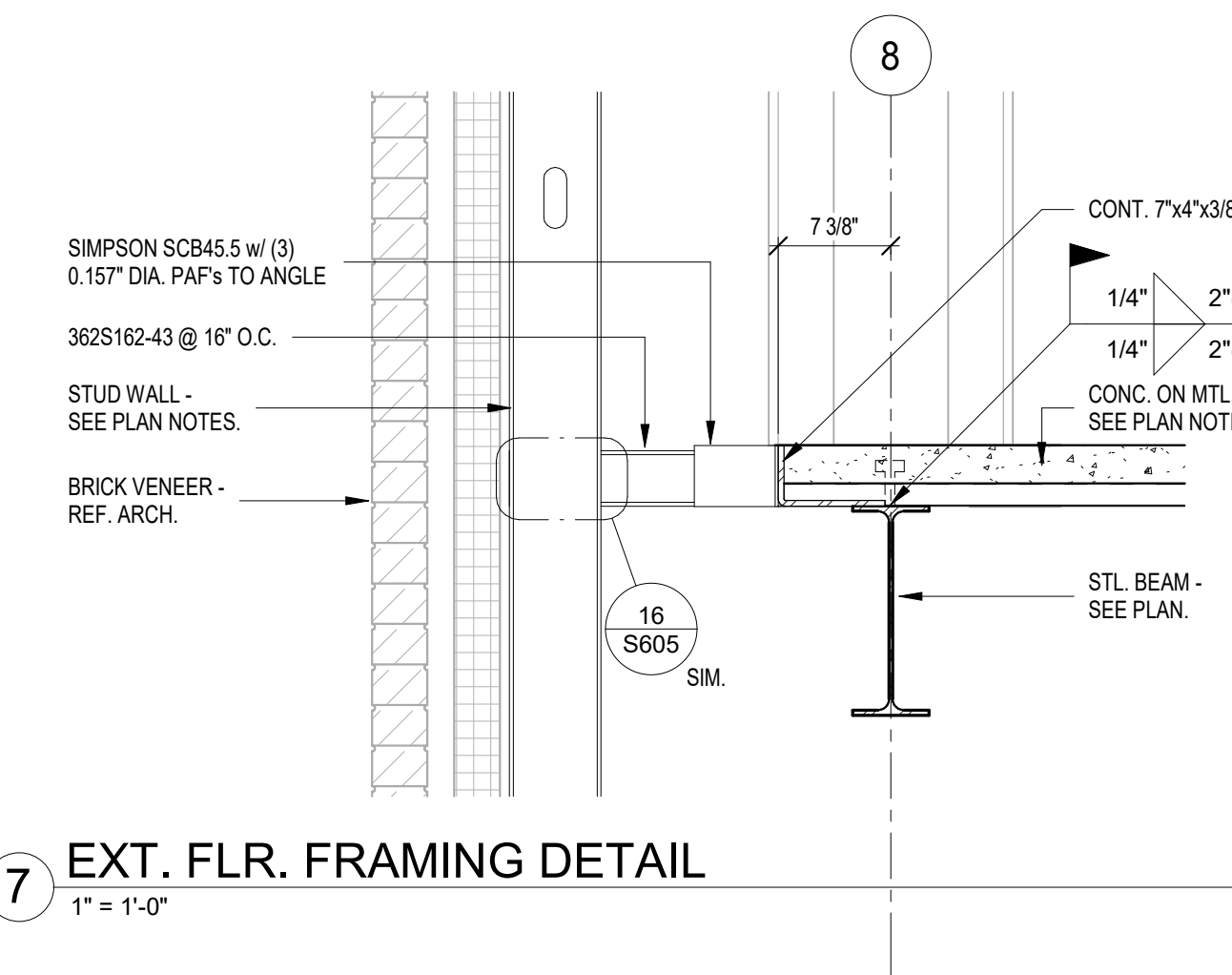
5 BUMP OUT @ 2ND FLR. COMMONS  
1" = 1'-0"



2 STL. FRAME 'D' ELEVATION  
3/8" = 1'-0"

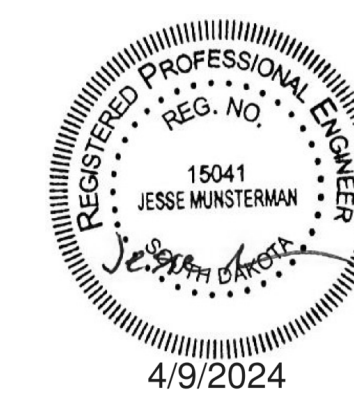


6 FRAMING DTL. @ COMMONS STAIRS  
1" = 1'-0"



7 EXT. FLR. FRAMING DETAIL  
1" = 1'-0"

Seal Issue Date  
100% CD 09 APRIL 2024



4/9/2024

LINCOLN HALL

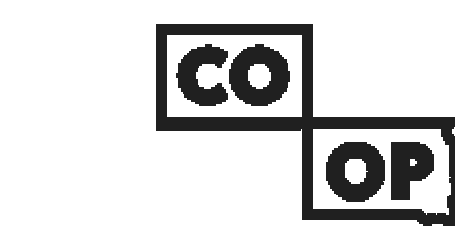
12th Ave SE, Aberdeen, SD 57401  
21-261

Northern State University  
1203 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

STRUCTURAL DETAILS

S604



AndersonMasonDale Architects

Architect of Record  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-294-4982  
E-mail: tom@co-oparch.com

Associate Architect  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO, 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

Civil Engineer  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-294-1212  
E-mail: lucash@helmsengineering.com

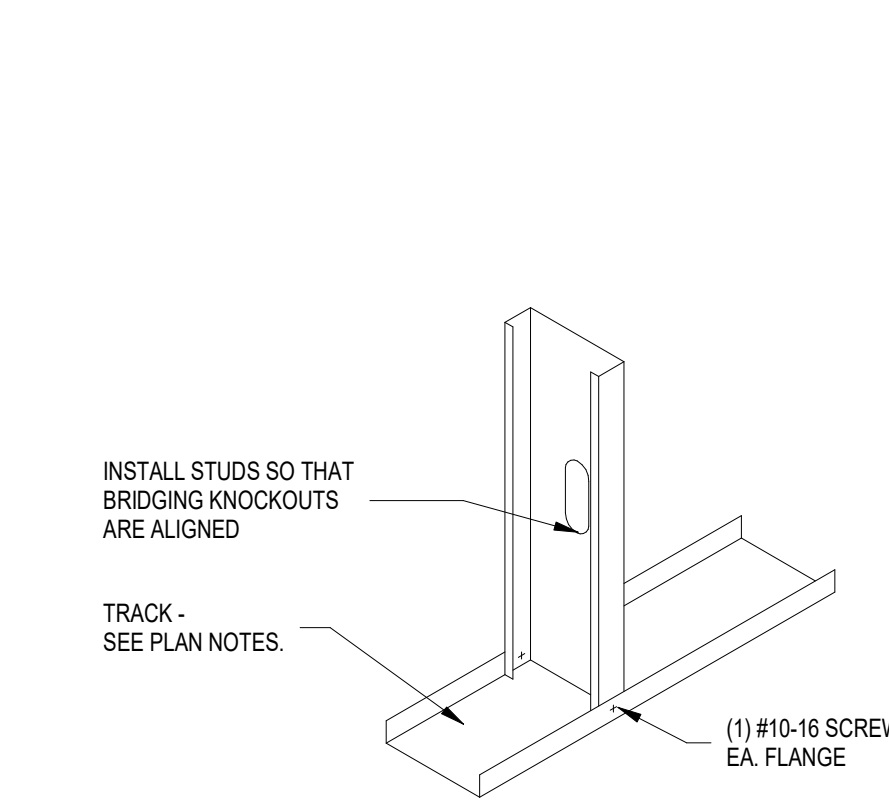
Landscape Architect  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-259-1205  
E-mail: lpudwil@thinkconfluence.com

Structural Engineer  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-225-1310  
E-mail: jchristensen@riseincorp.com

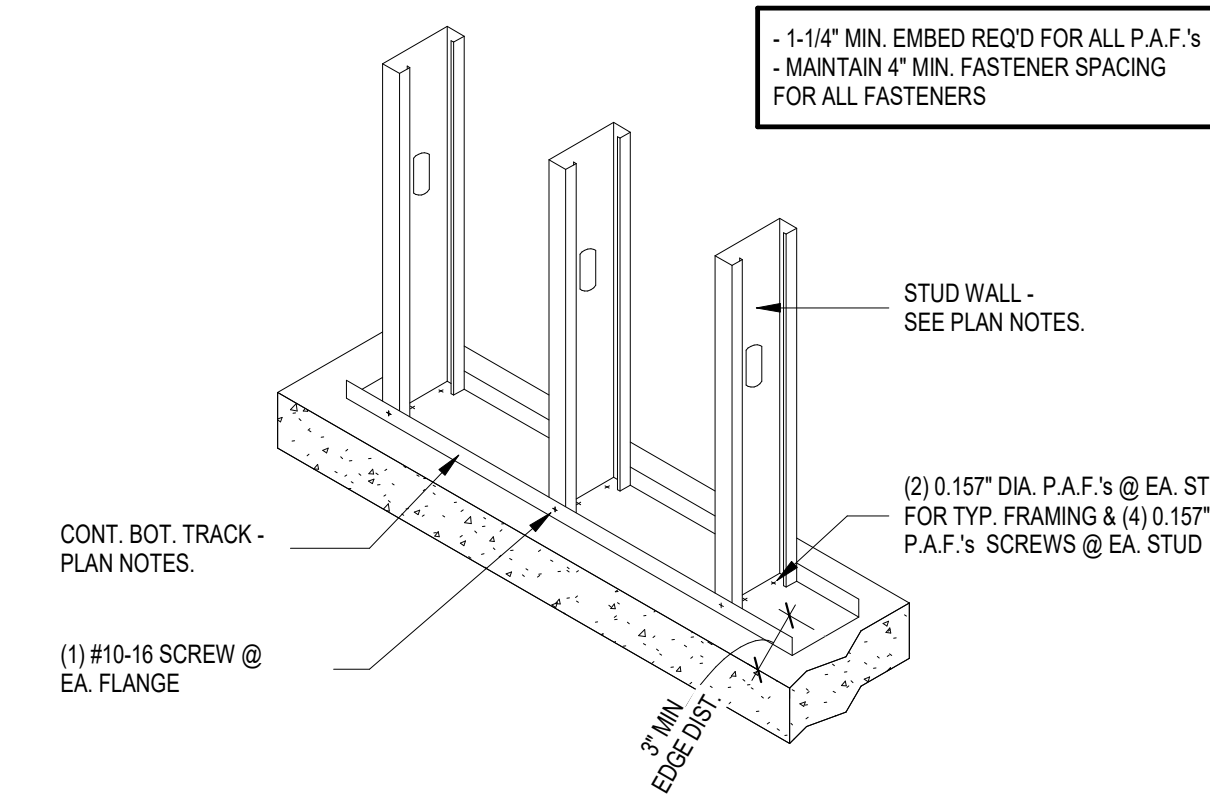
Mech & Plumbing Engineer  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-3344  
E-mail: traviss@siceng.biz

Electrical Engineer  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.hernz@imegcorp.com

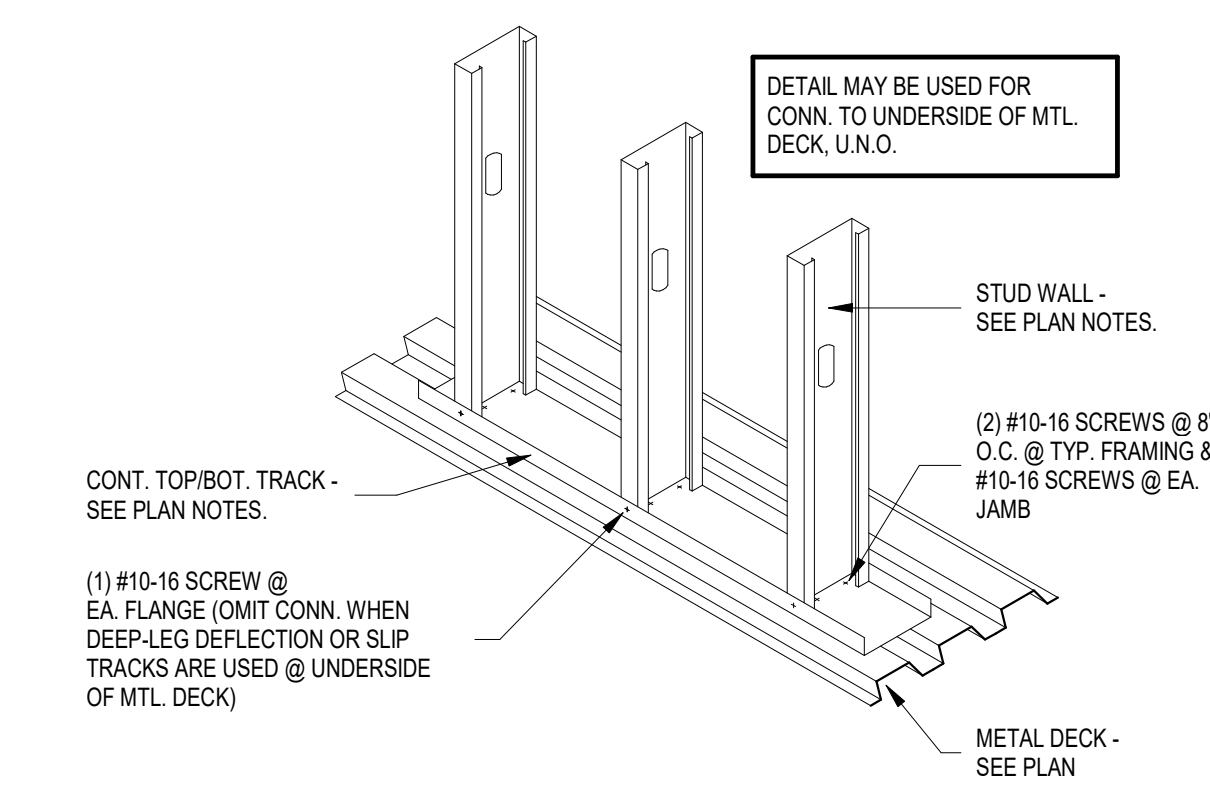




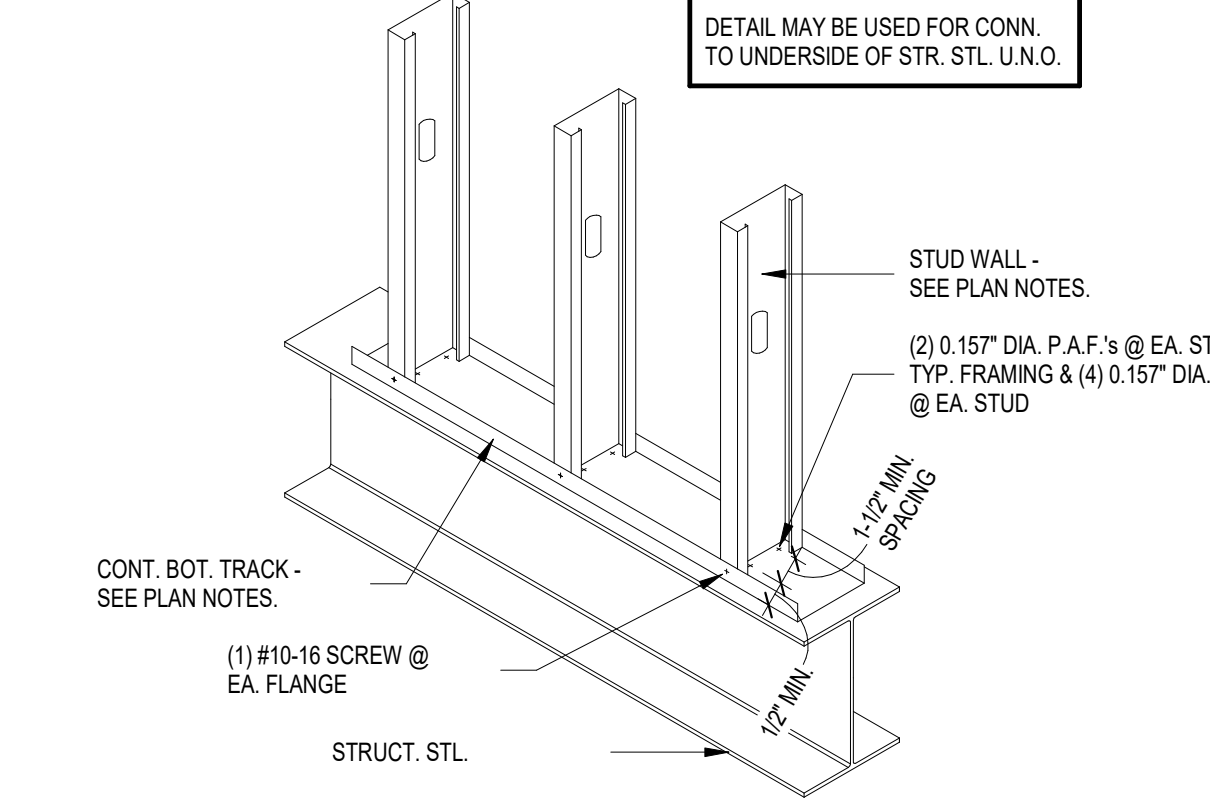
**1 STUD TO TRACK DETAIL**  
3/4" = 1'-0"



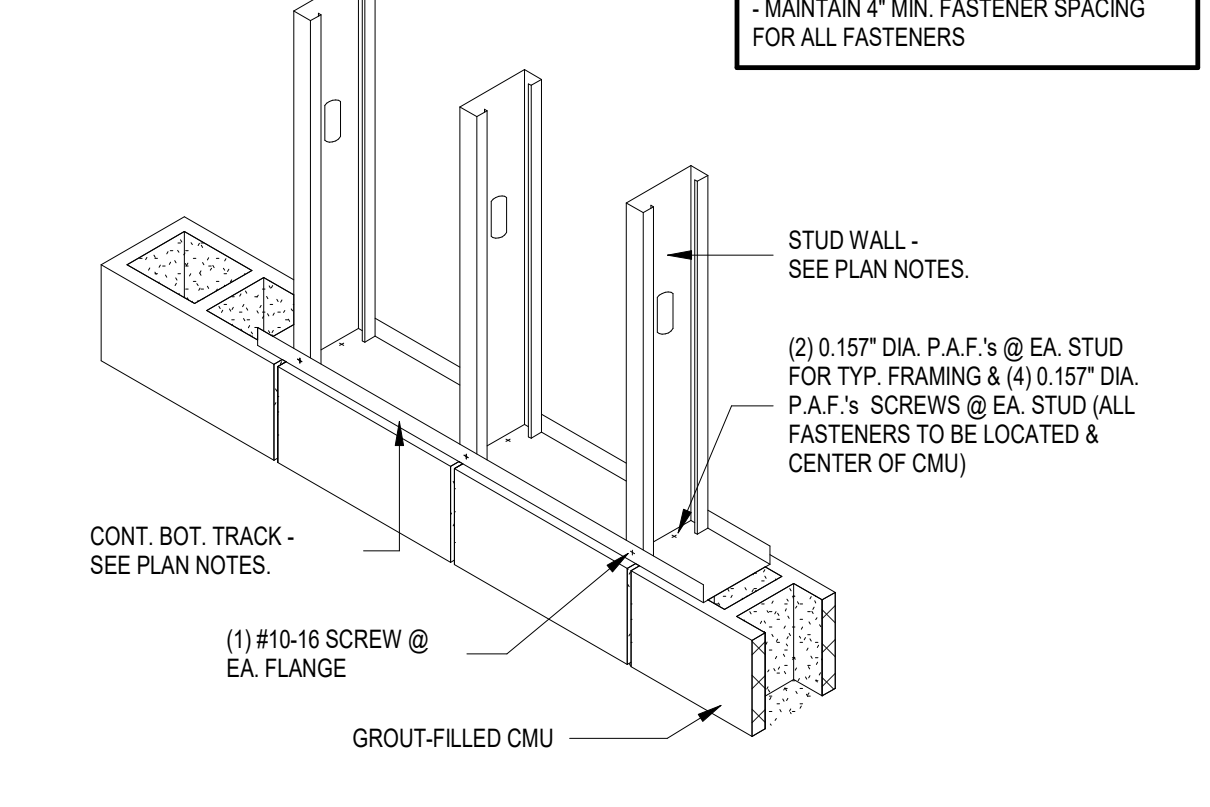
**2 BASE CONN. @ CONC.**  
3/4" = 1'-0"



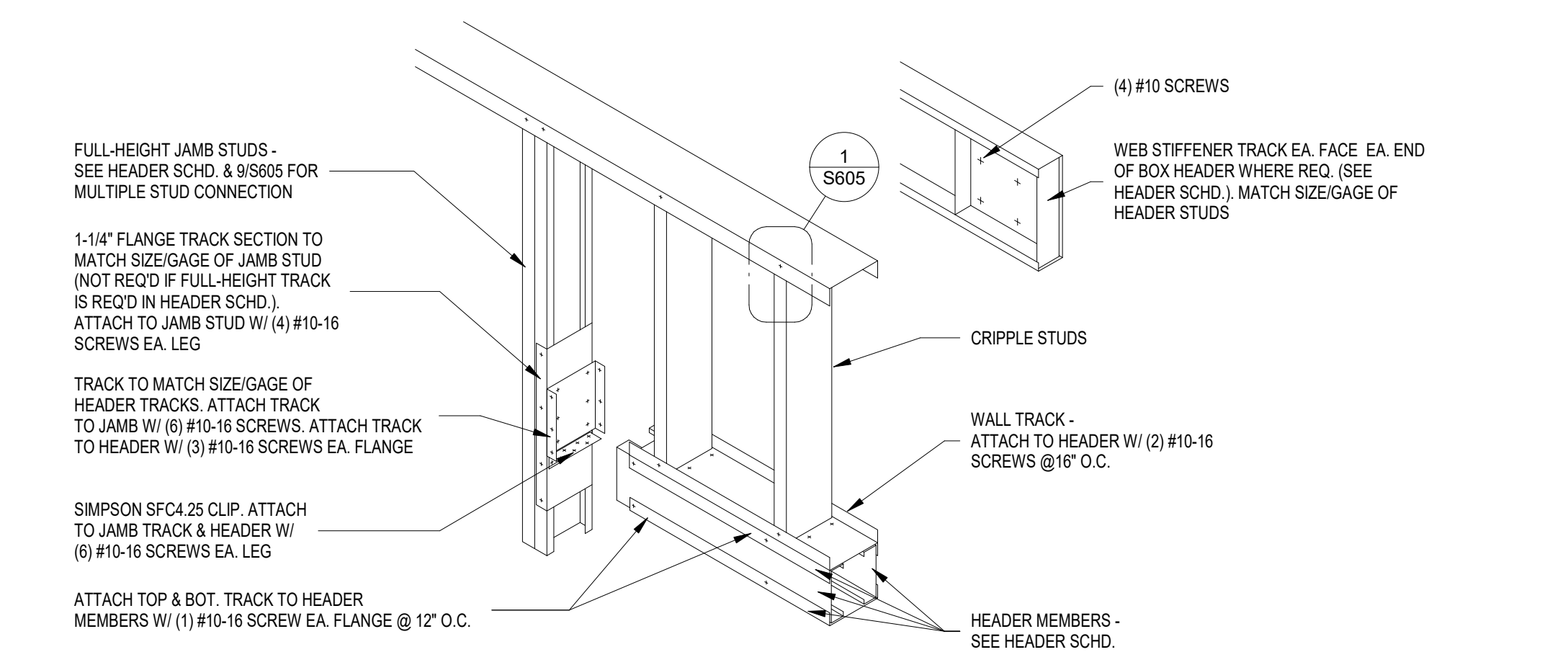
**3 BASE CONN. @ METAL DECK**  
3/4" = 1'-0"



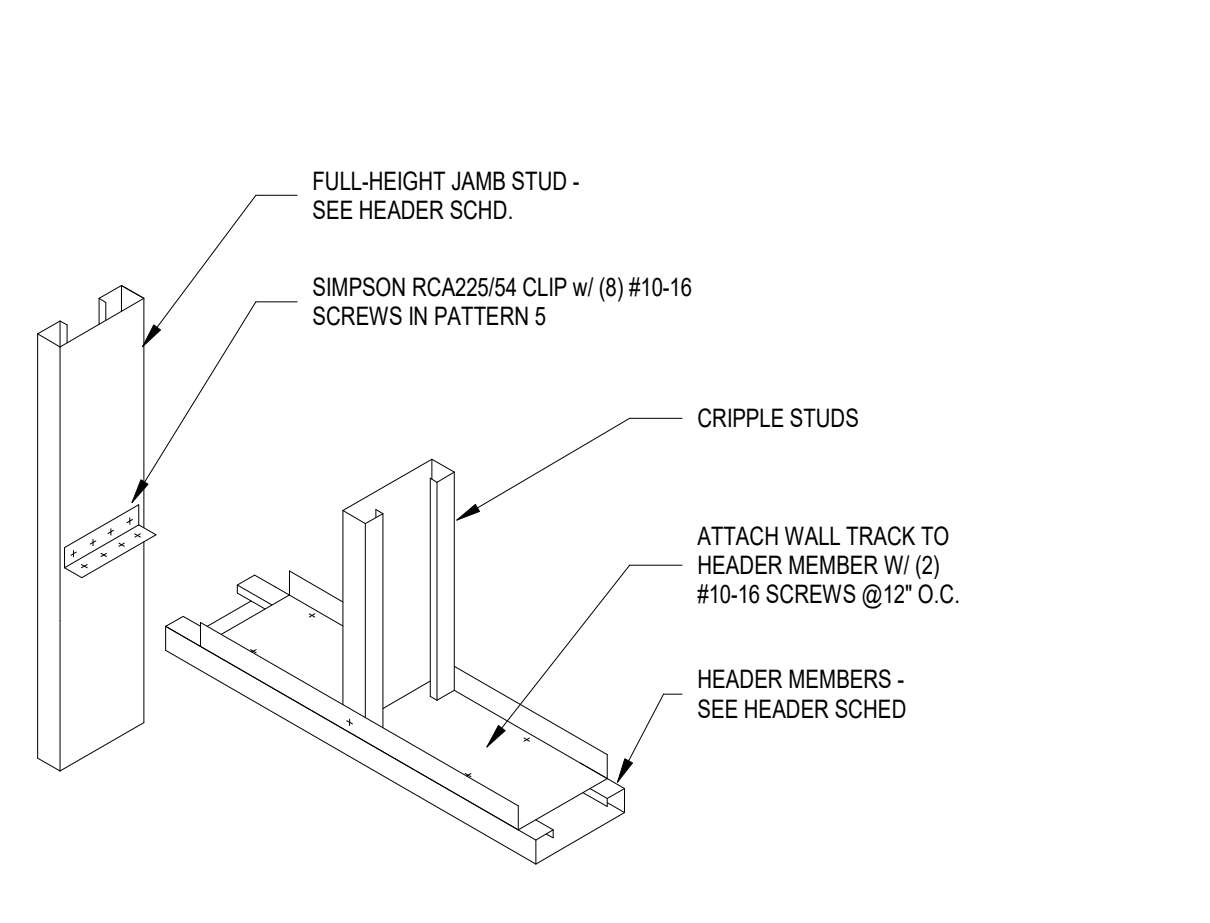
**4 BASE CONN. @ STR. STL.**  
3/4" = 1'-0"



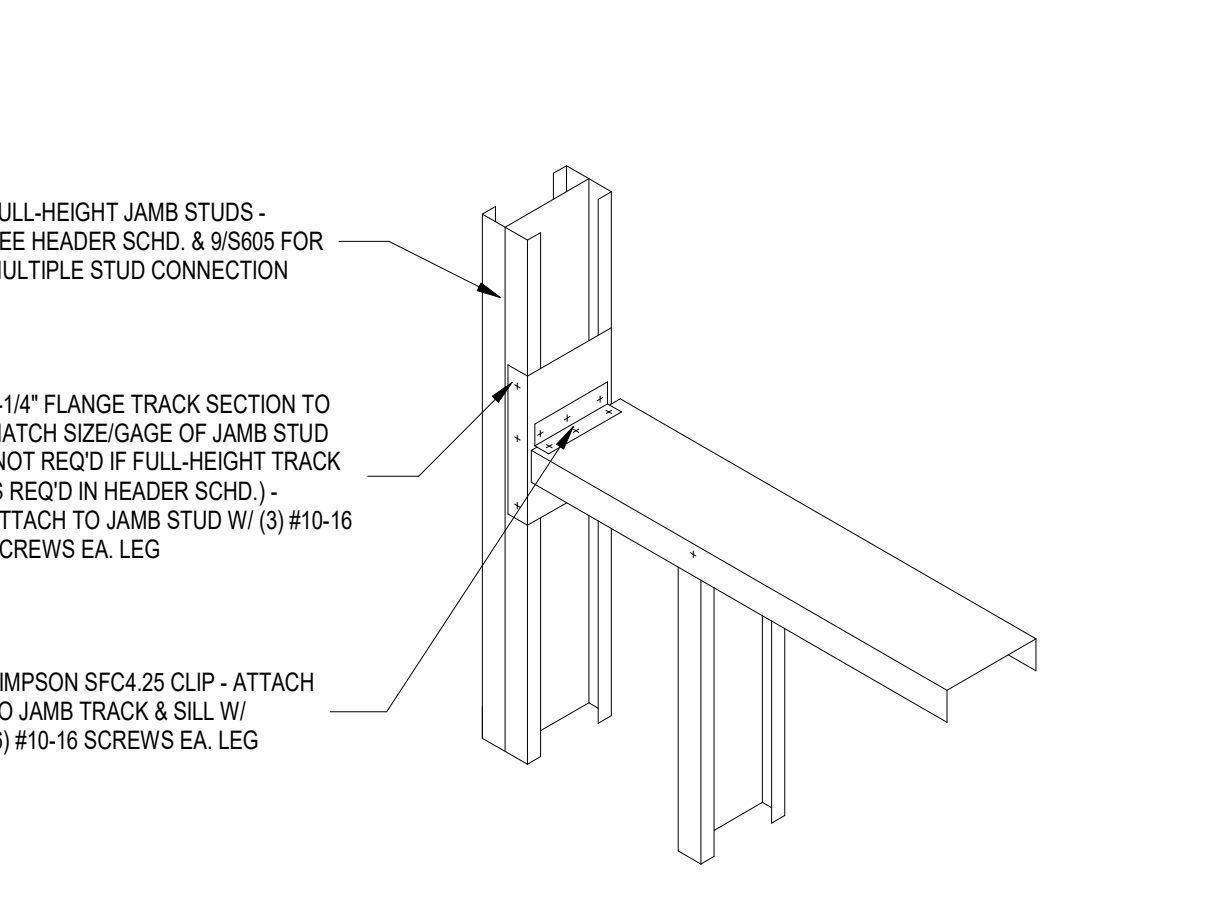
**5 BASE CONN. @ CMU**  
3/4" = 1'-0"



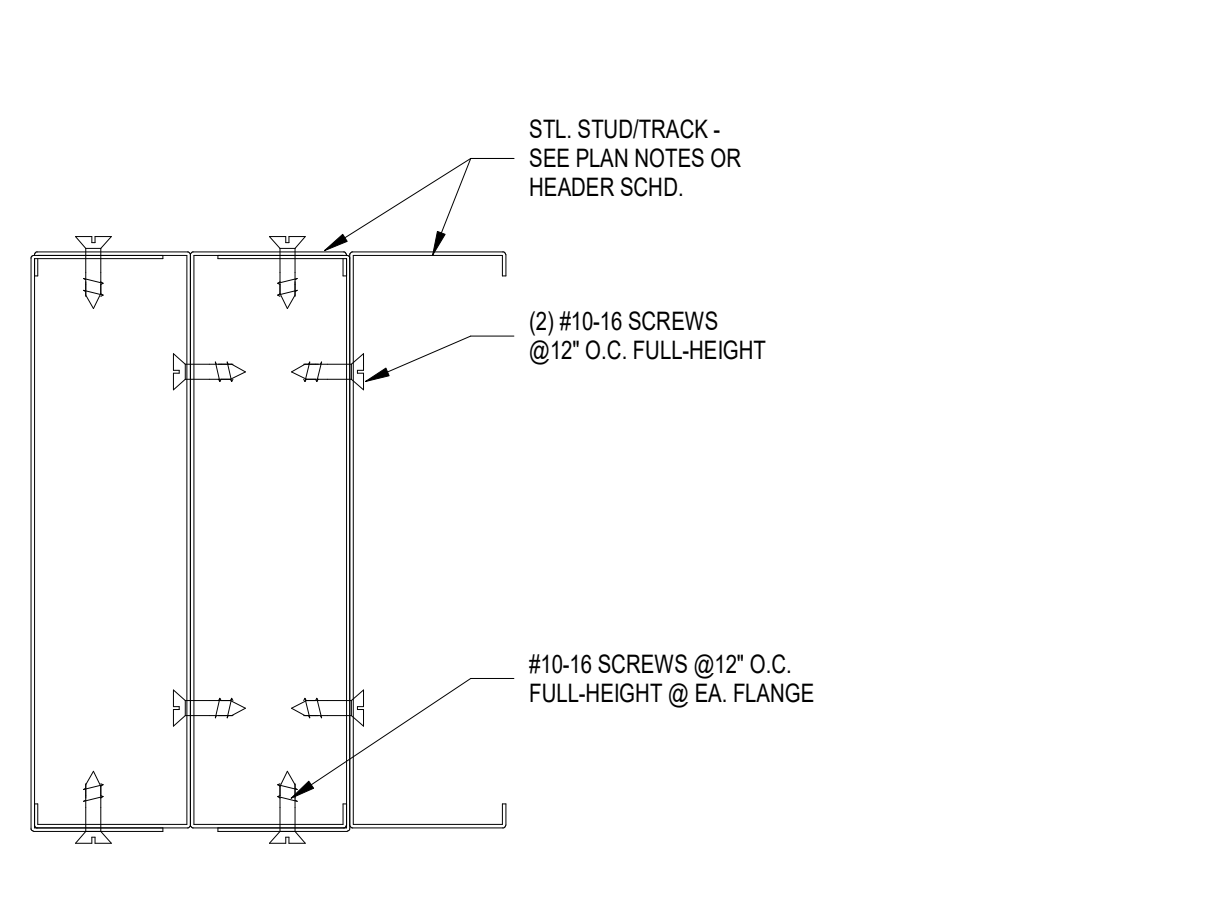
**6 BOX HEADER ASSEMBLY**  
3/4" = 1'-0"



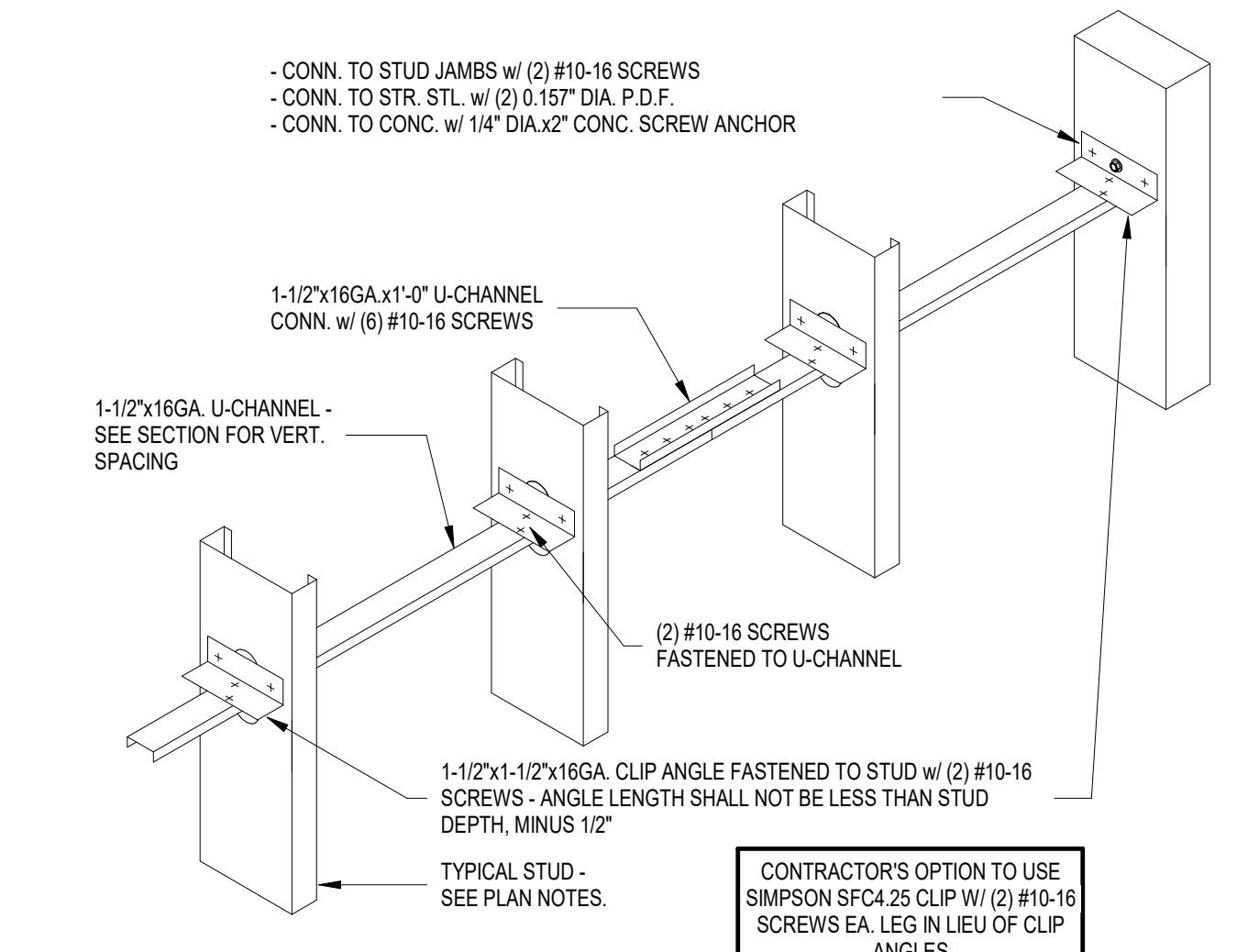
**7 SINGLE MEMBER HEADER ASSEMBLY**  
1" = 1'-0"



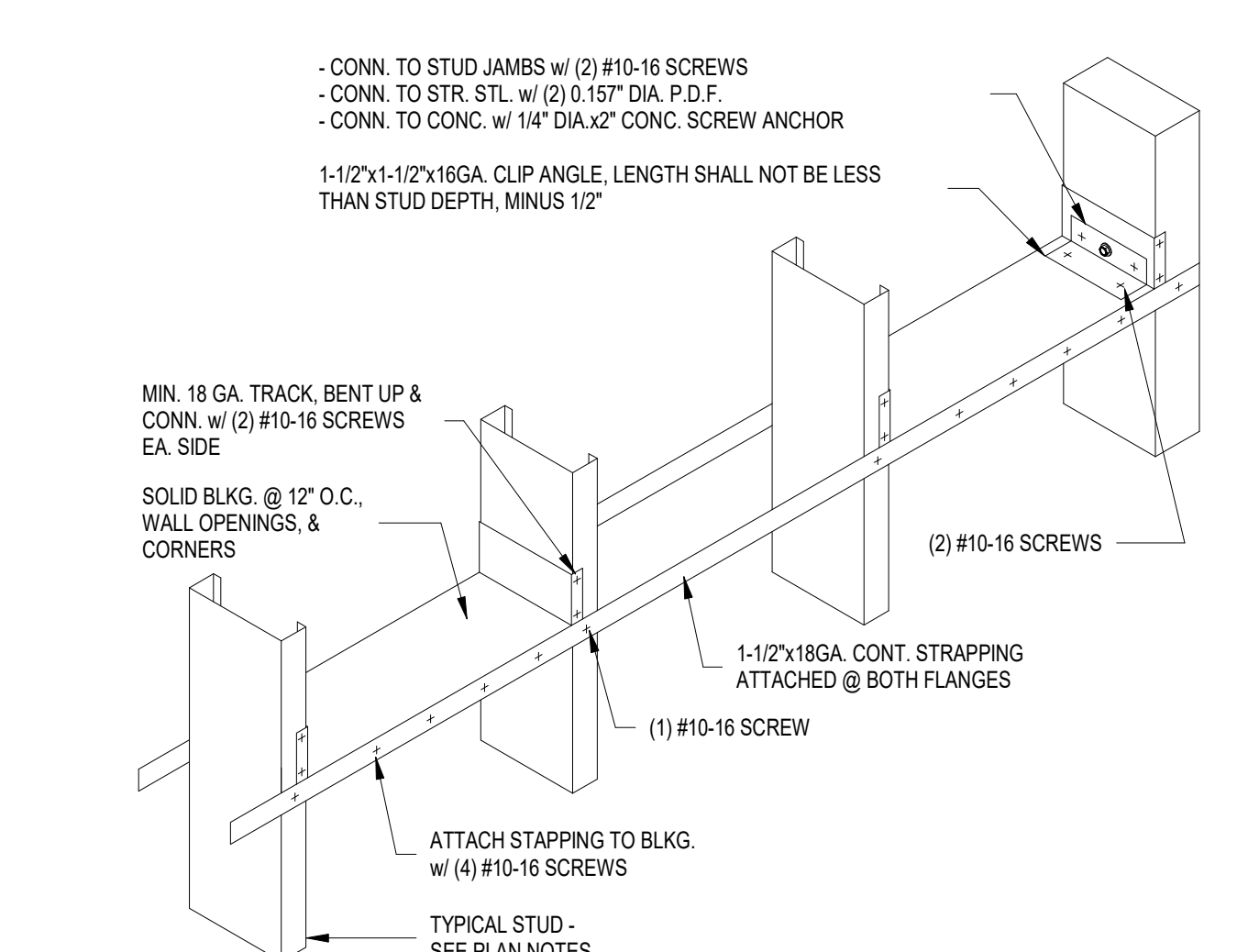
**8 SILL TO JAMB CONN.**  
1" = 1'-0"



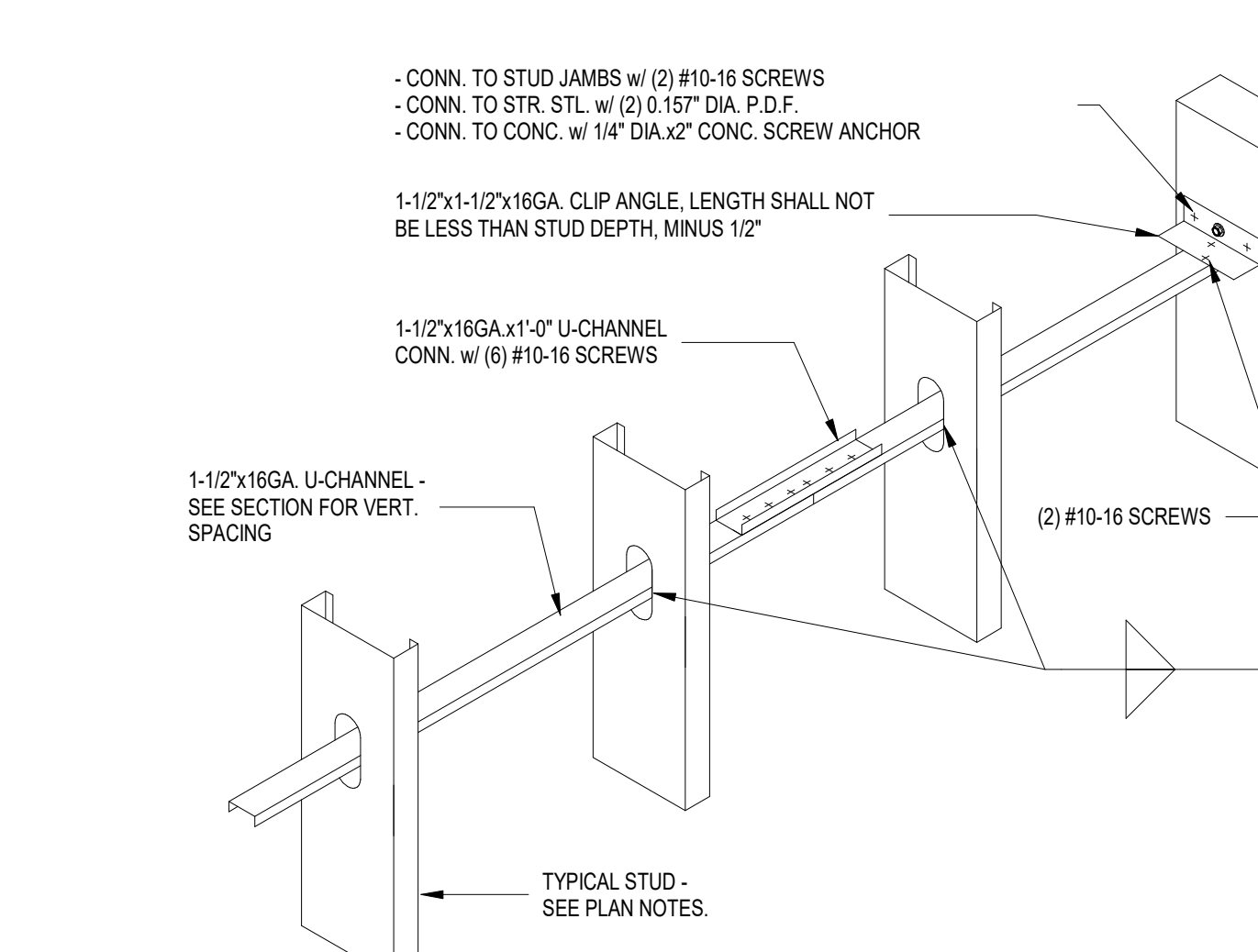
**9 MULTIPLE STUD CONNECTION**  
6" = 1'-0"



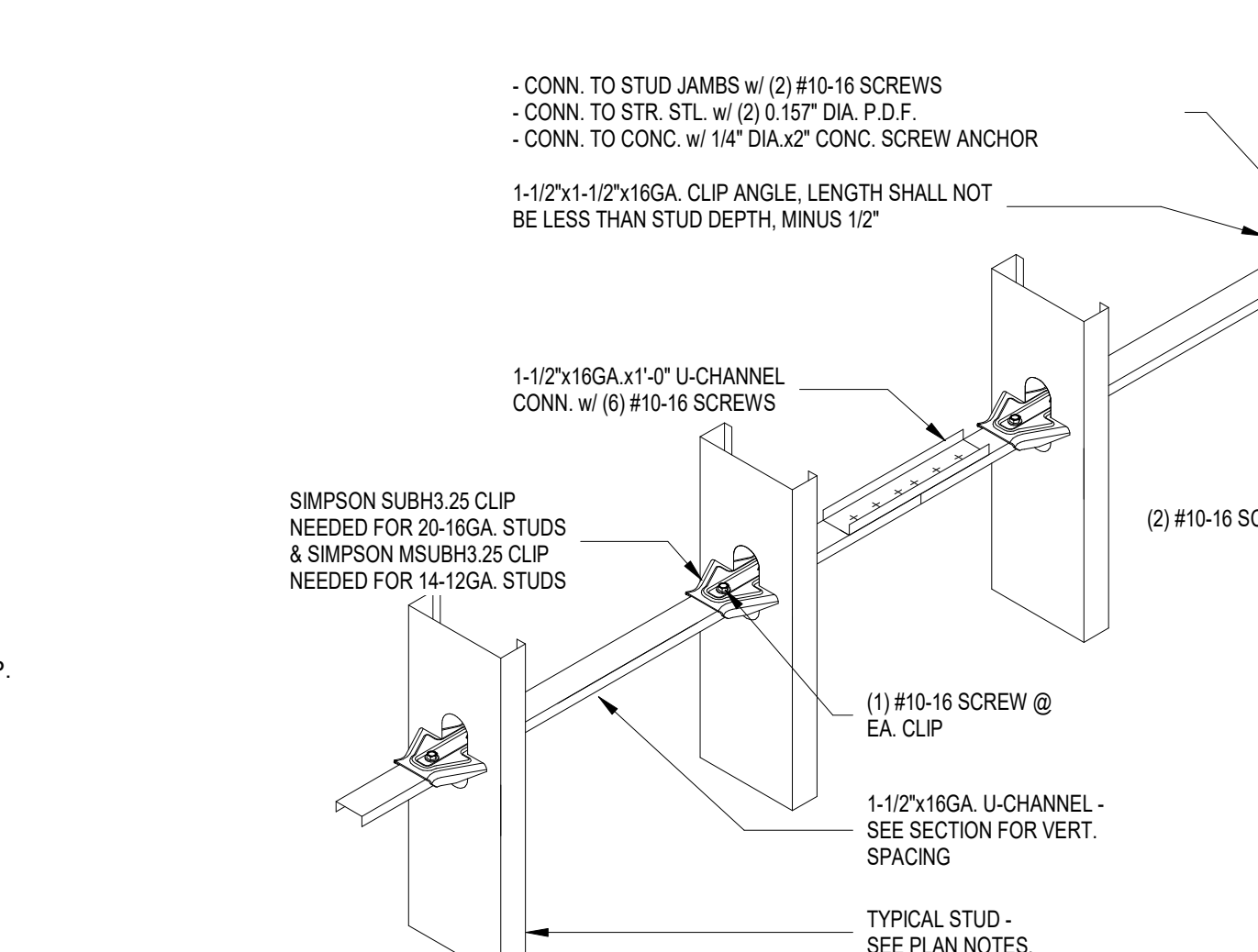
**10 BRIDGING DETAIL (SCREWED CLIP)**  
1/2" = 1'-0"



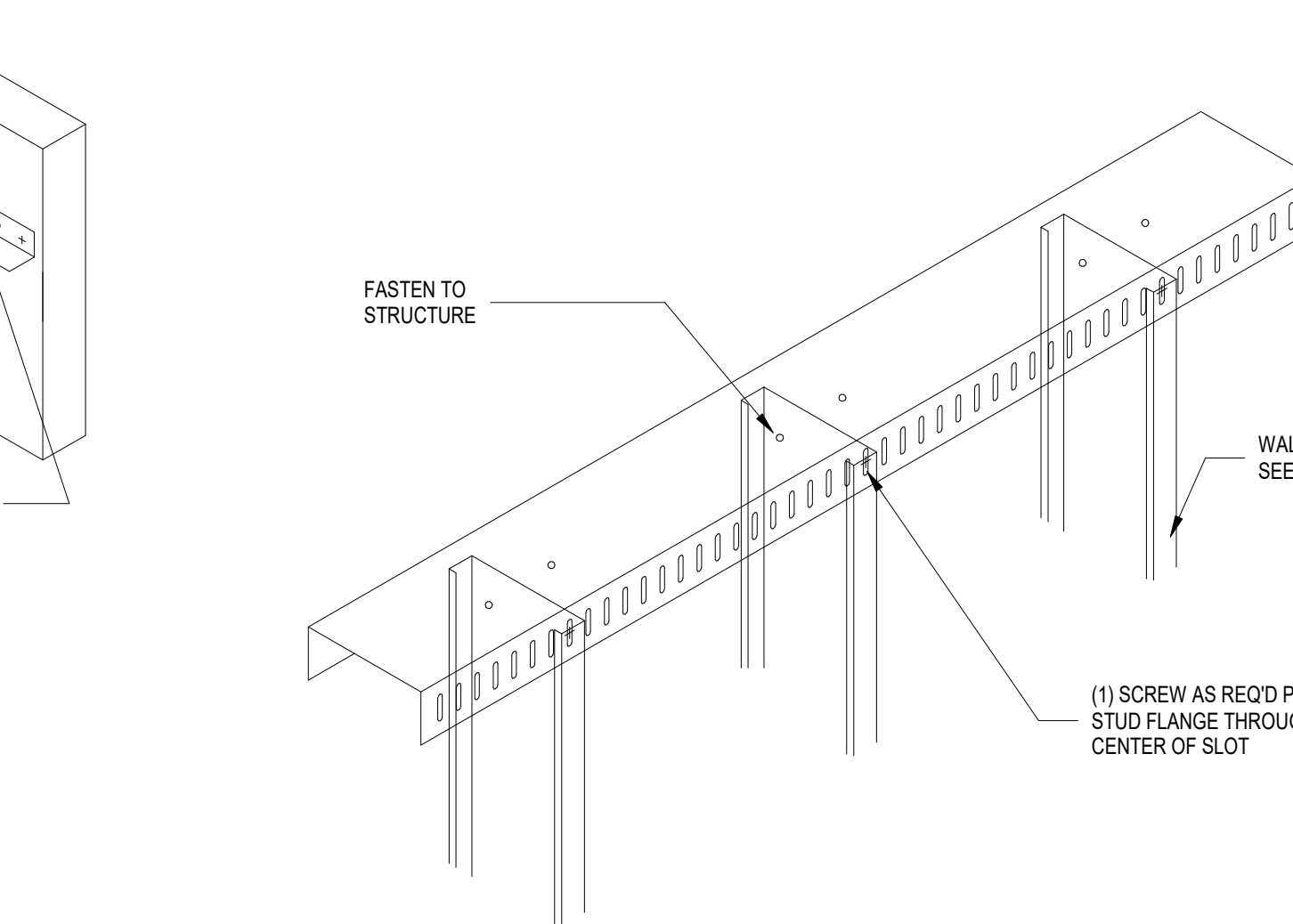
**11 BRIDGING DETAIL (STRAP & BLKG.)**  
1/2" = 1'-0"



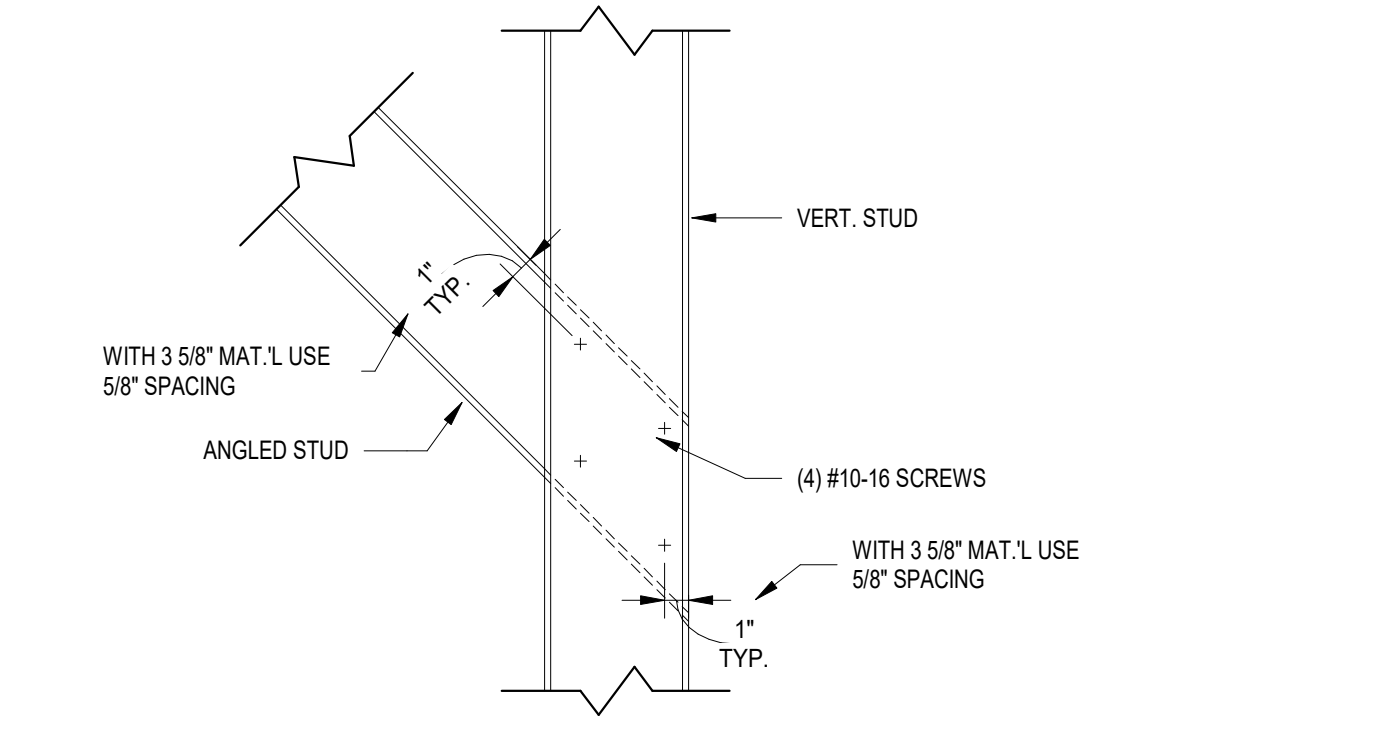
**12 BRIDGING DETAILS (DIRECT WELD)**  
1/2" = 1'-0"



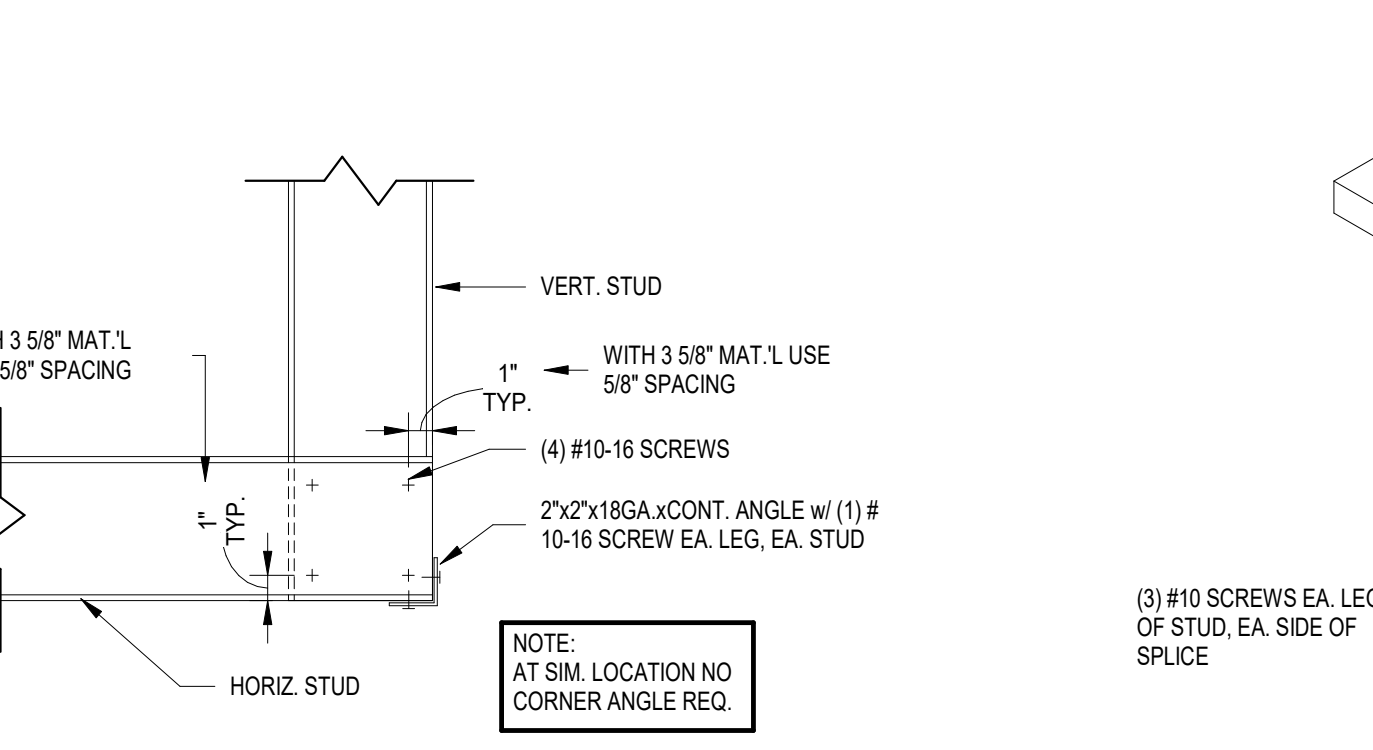
**13 BRIDGING DETAILS (SCREWED SIMPSON CLIP)**  
1/2" = 1'-0"



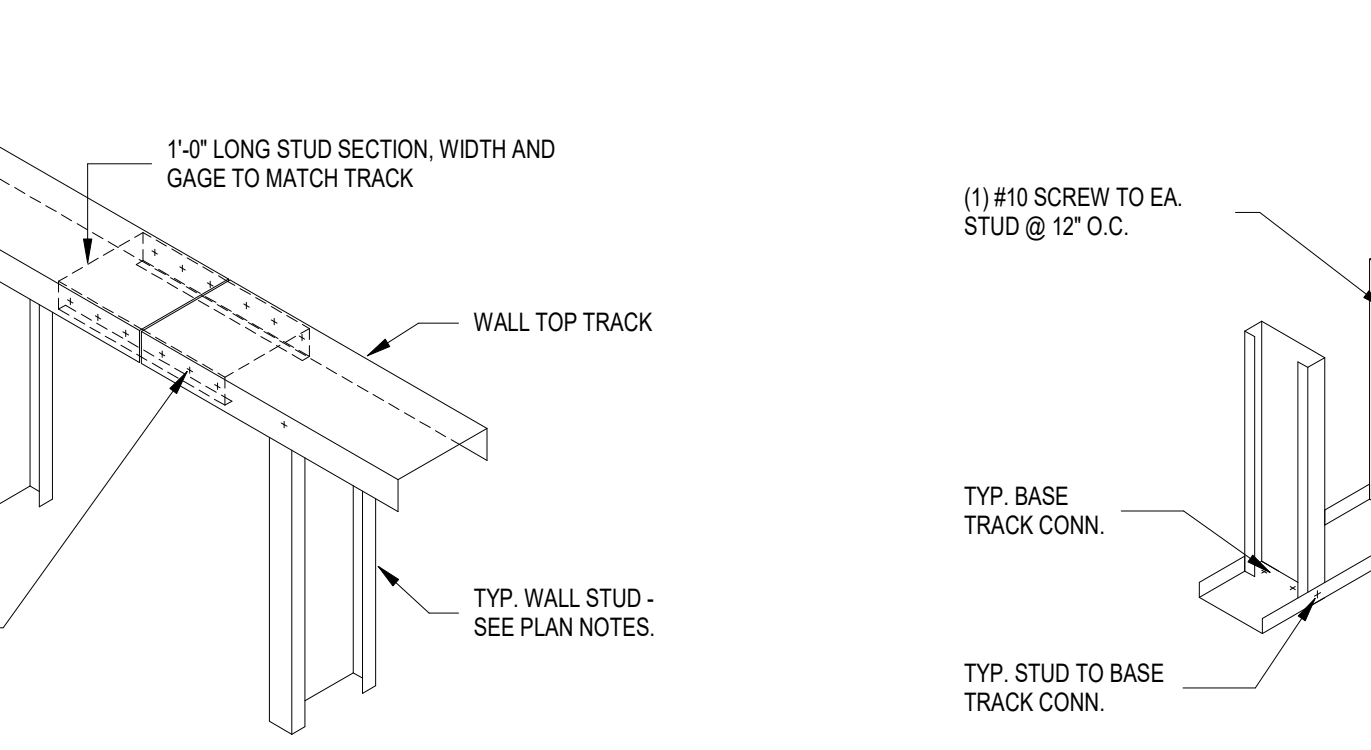
**14 DEFLECTION TRACK DTL.**  
1" = 1'-0"



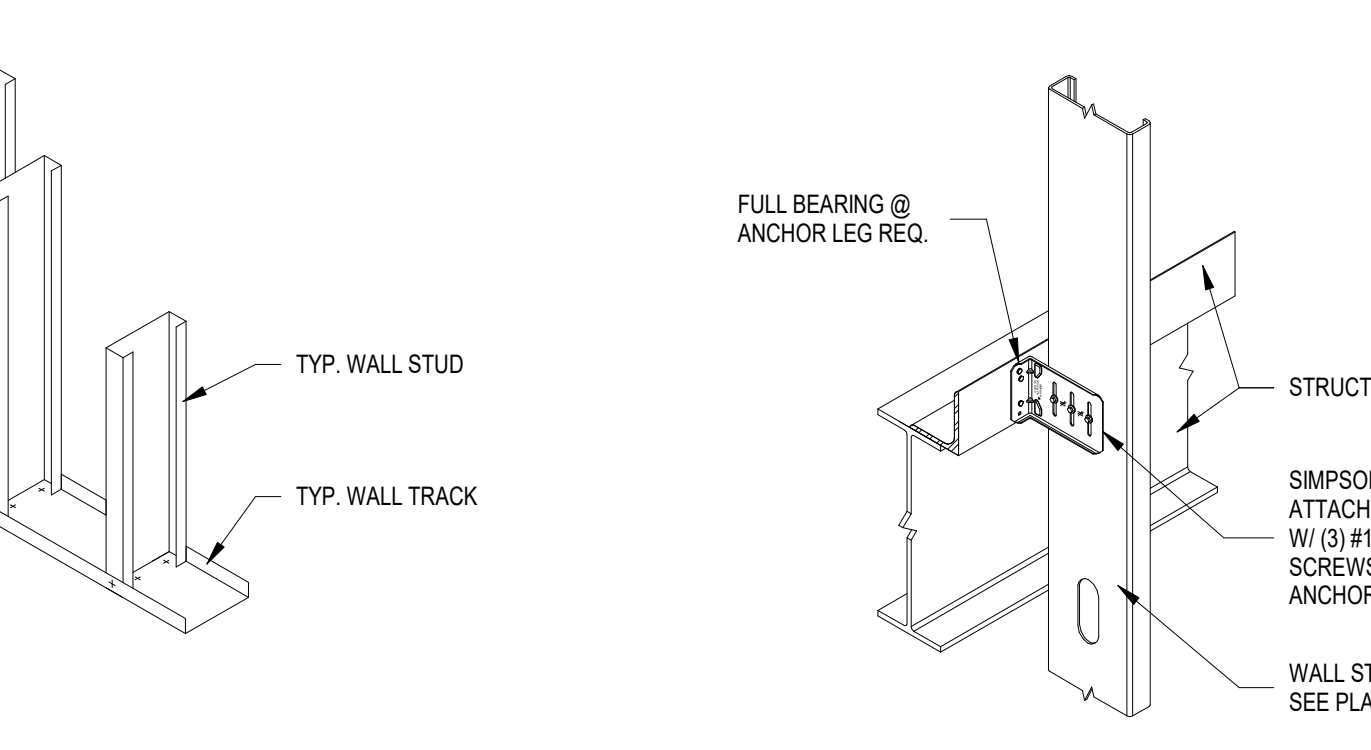
**15 TYP. LAP SPLICE @ ANGLED BRACE**  
1 1/2" = 1'-0"



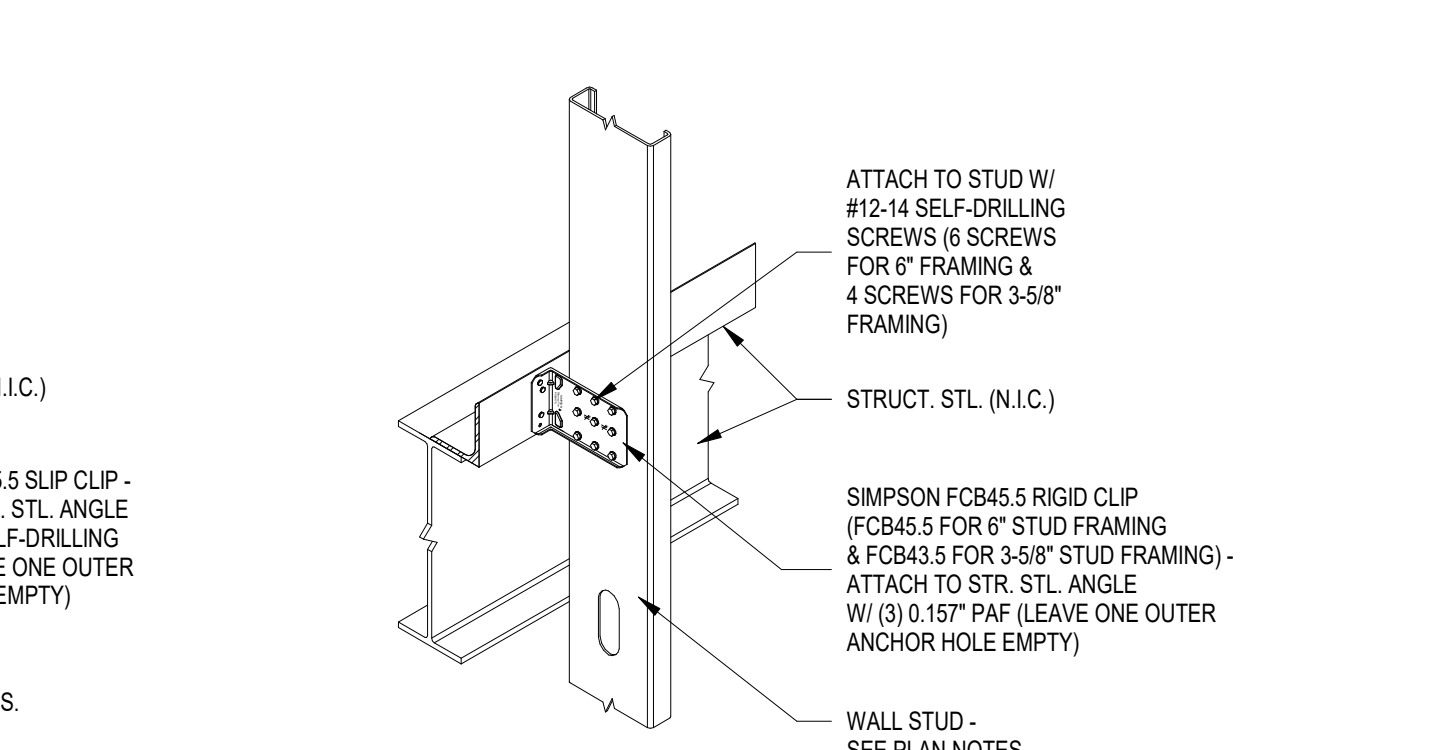
**16 TYP. LAP SPLICE @ CORNER**  
1 1/2" = 1'-0"



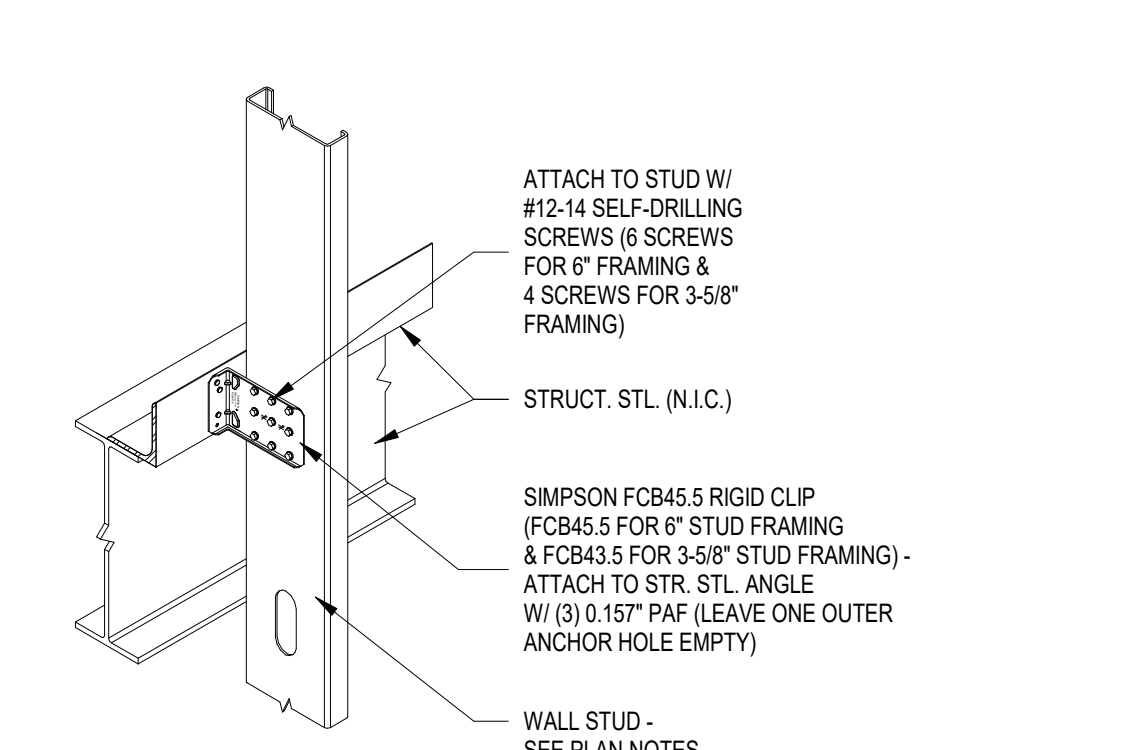
**17 TYP. TRACK SPLICE CONN.**  
1" = 1'-0"



**18 TYP. WALL CORNER CONSTRUCTION**  
3/4" = 1'-0"



**19 SLIP CLIP CONN. DETAIL**  
1" = 1'-0"



**20 RIGID CLIP CONN. DETAIL**  
1" = 1'-0"

4/9/2024 1:26:33 PM



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4982  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-725-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

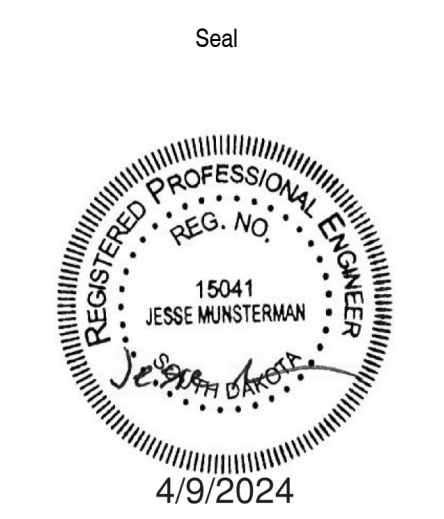
**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-259-1205  
E-mail: lputwall@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57401  
Telephone: 605-225-1340  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1340  
E-mail: thomas.henz@imegcorp.com

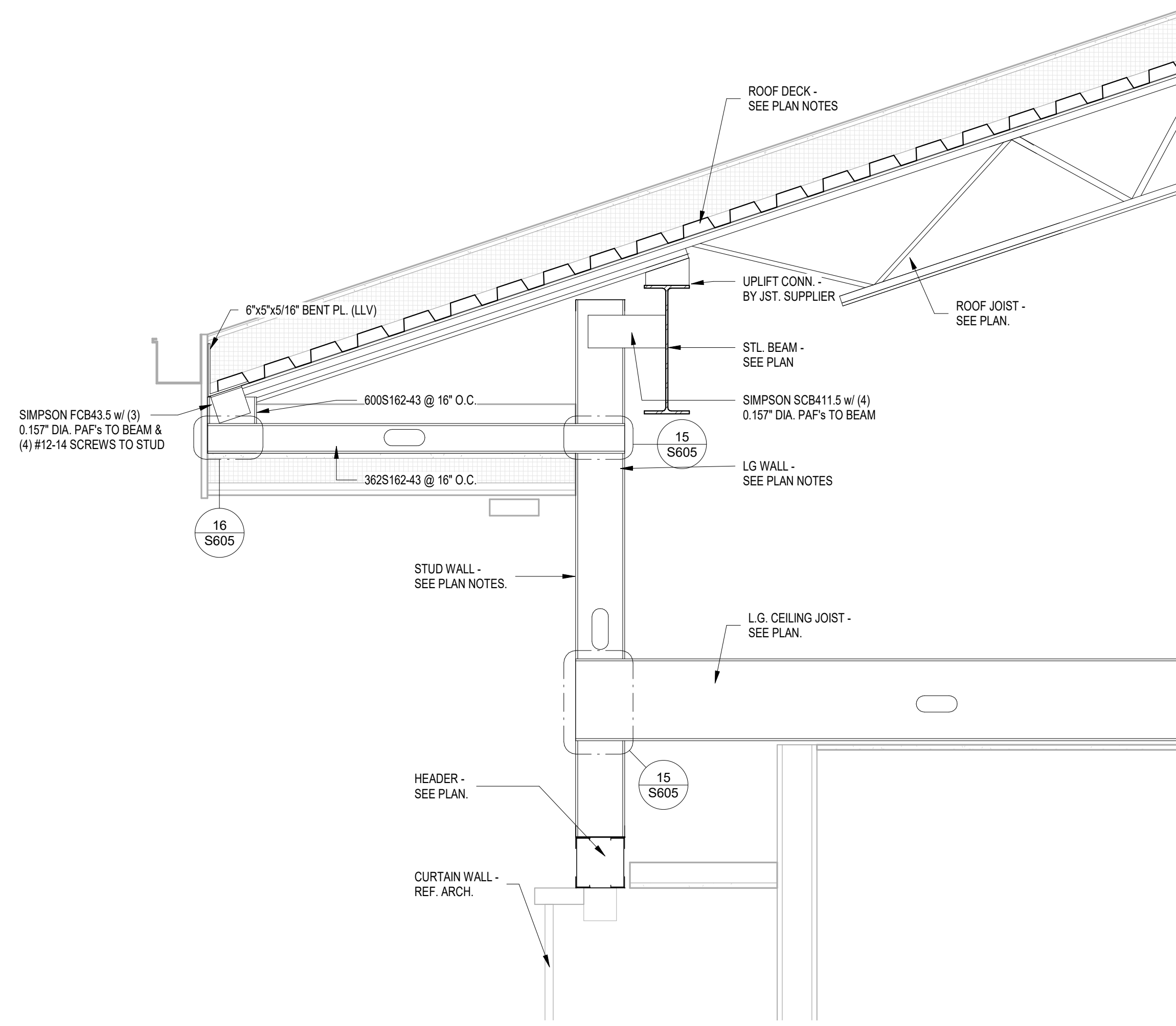


Seal Issue Date  
100% CD 09 APRIL 2024

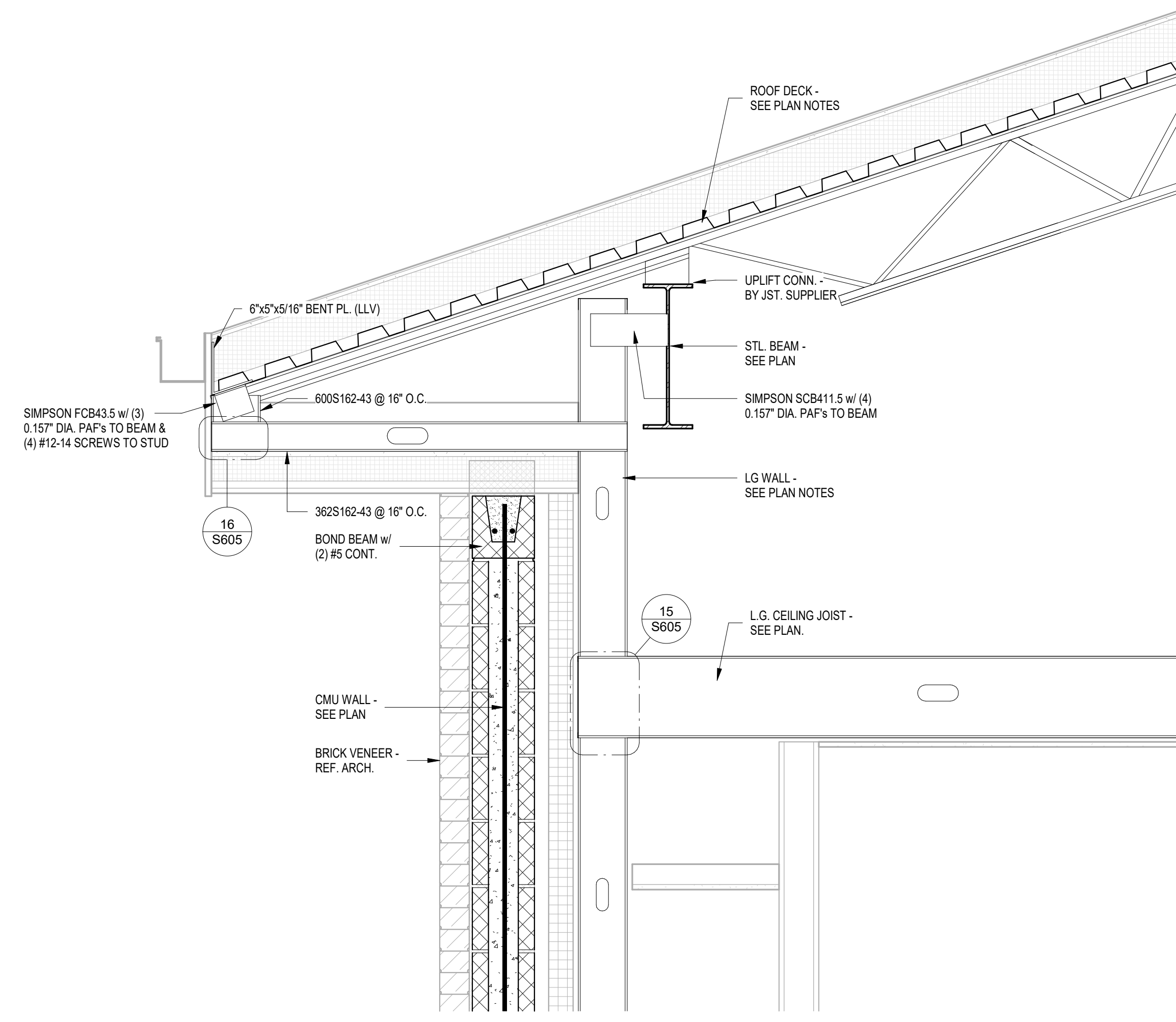
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1203 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC  
**STRUCTURAL DETAILS**  
**S605**

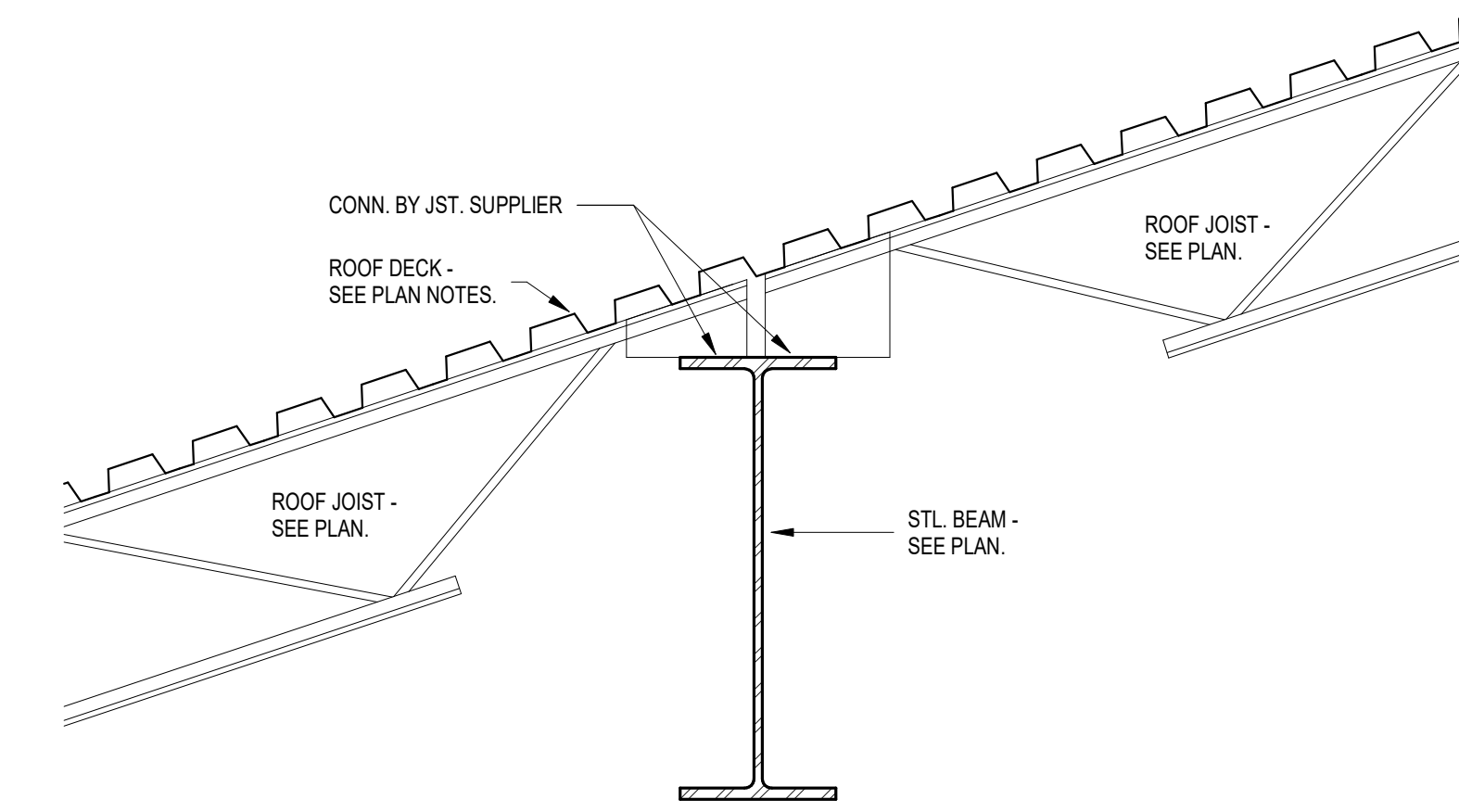




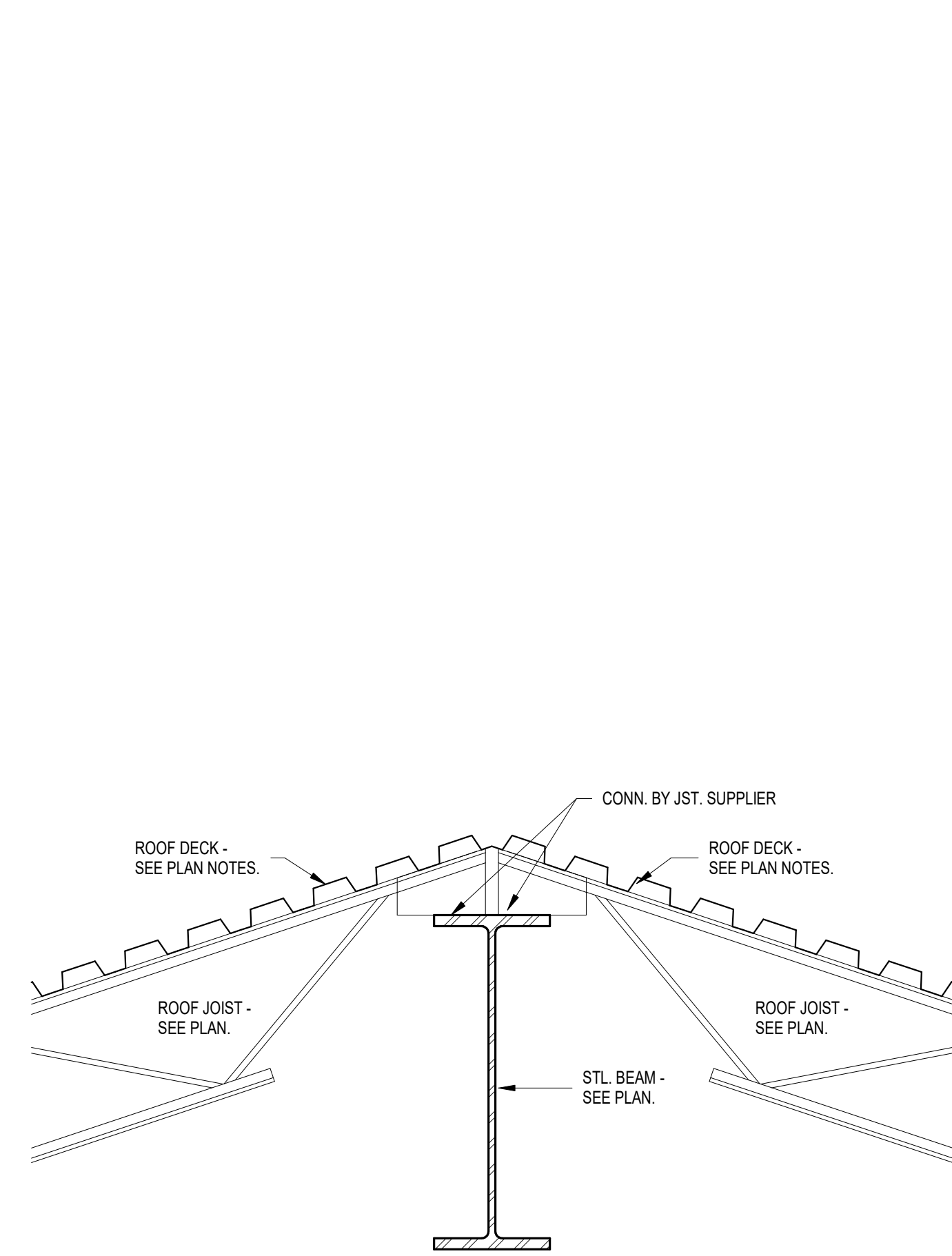
1 BAR JOIST BRG. @ EXT. WALL 1  
1" = 1'-0"



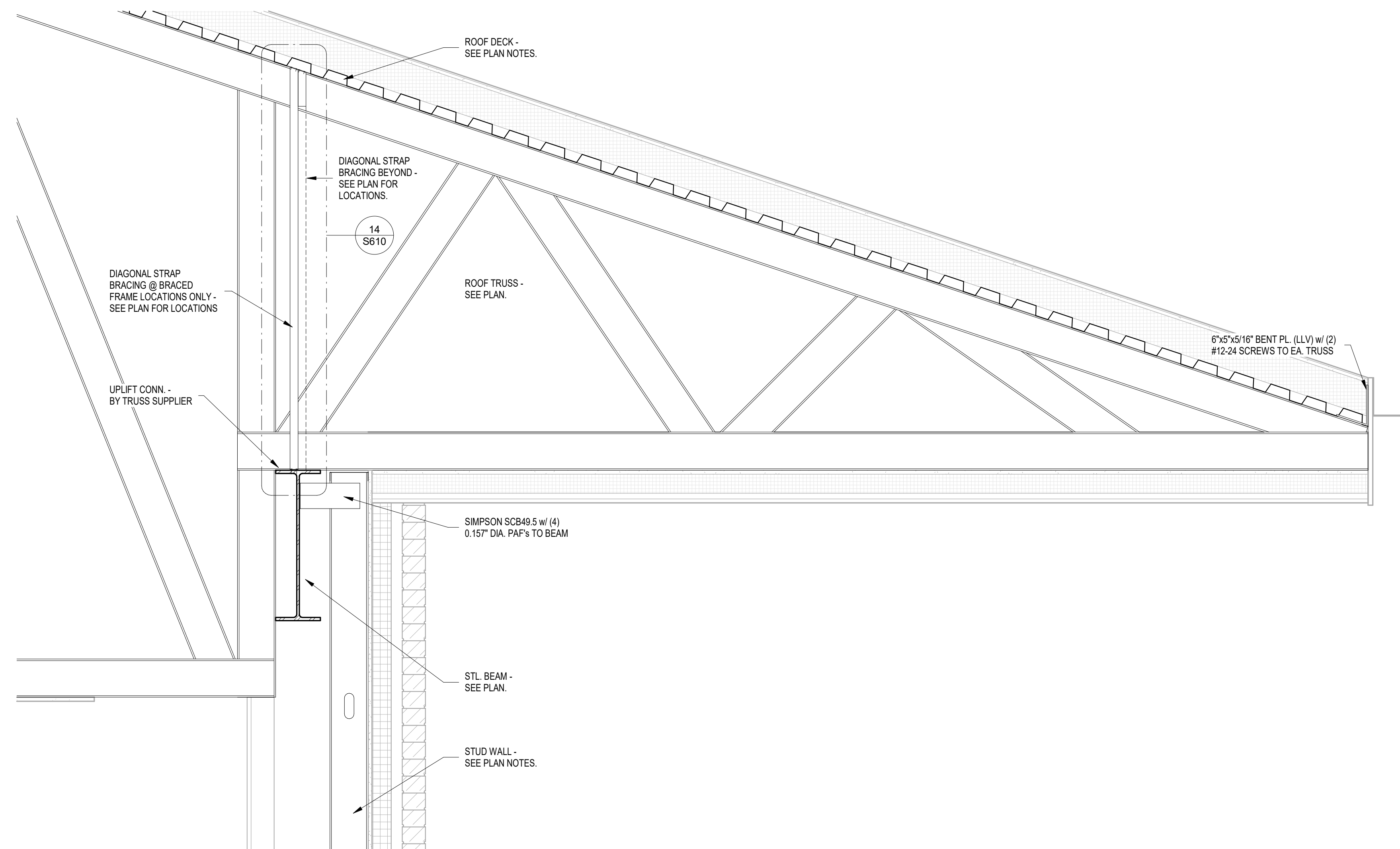
2 BAR JOIST BRG. @ EXT. WALL 2  
1" = 1'-0"



3 ROOF JOIST BRG. @ STL. BM. 2  
1" = 1'-0"



4 ROOF JOIST BRG. @ STL. BM. 1  
1" = 1'-0"



5 CFS ROOF TRUSS BRG. DTL. 1  
1" = 1'-0"



**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4952  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-291-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

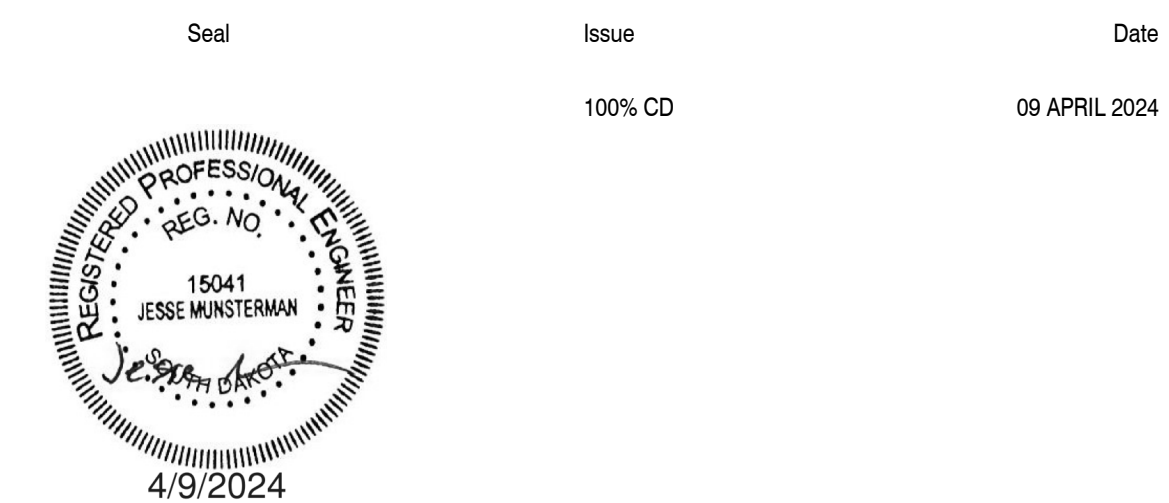
**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-259-1205  
E-mail: tpudwill@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-225-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmeller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-0344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.henz@imegcorp.com



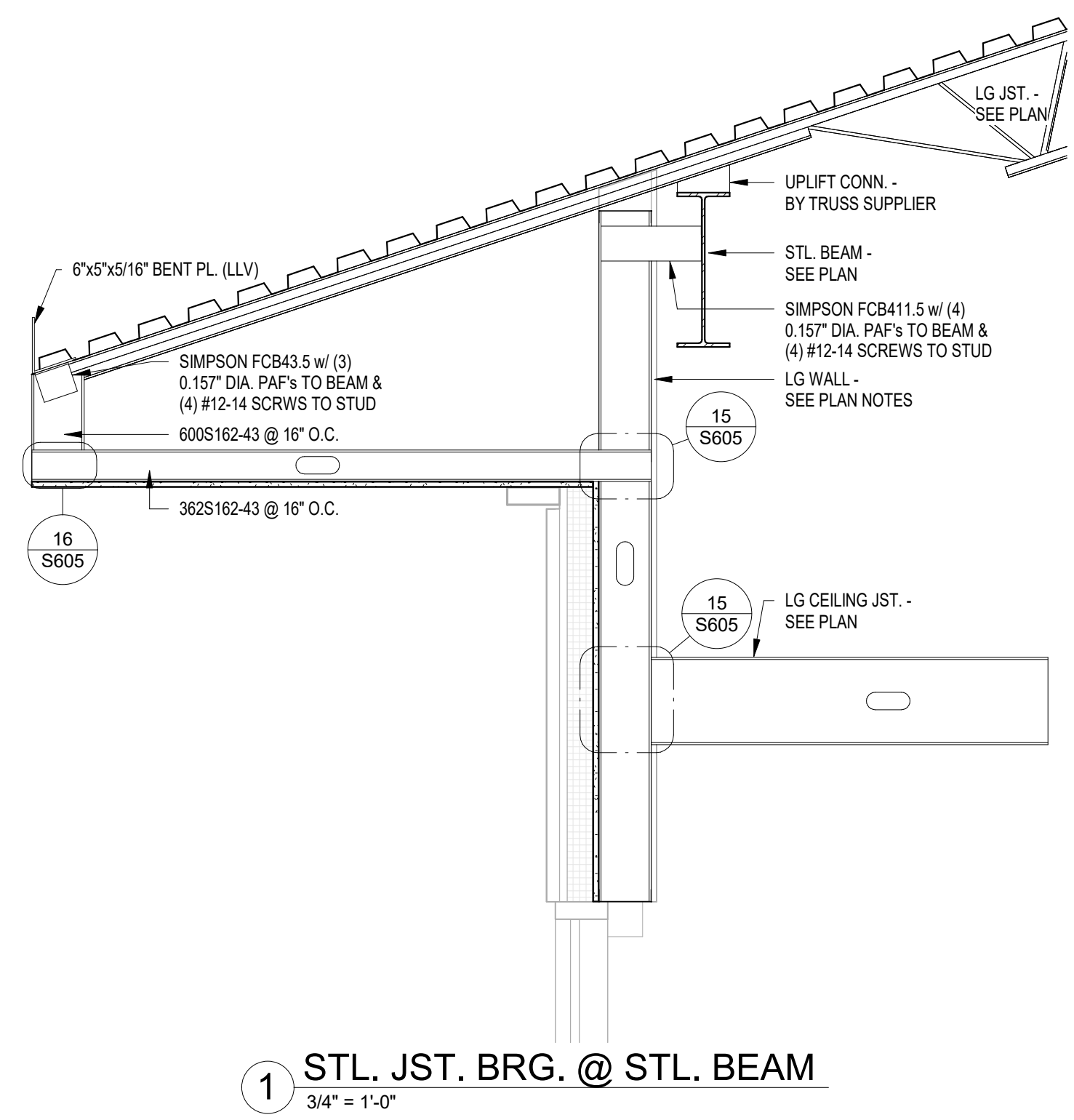
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1200 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

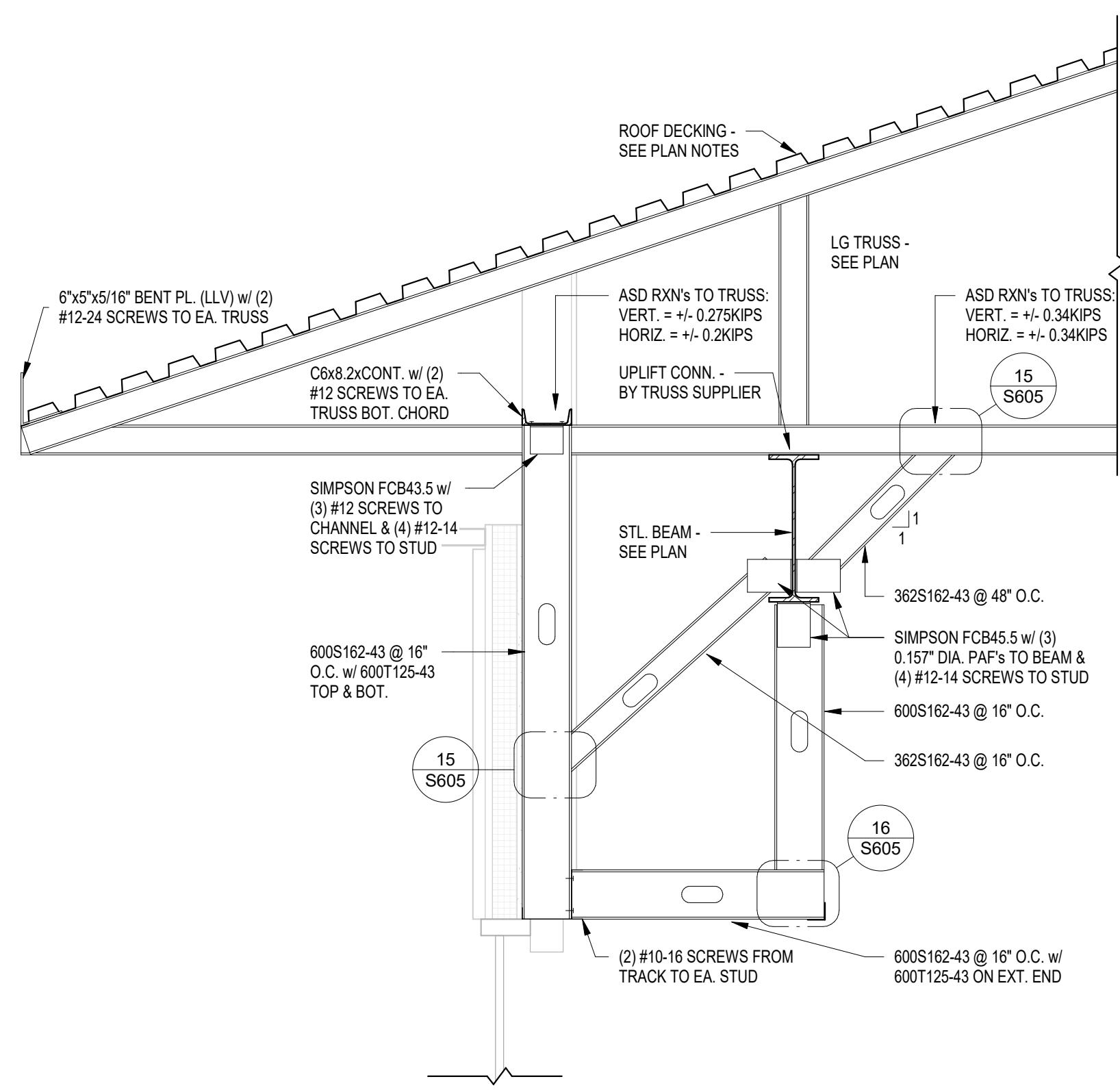
STRUCTURAL DETAILS

S606

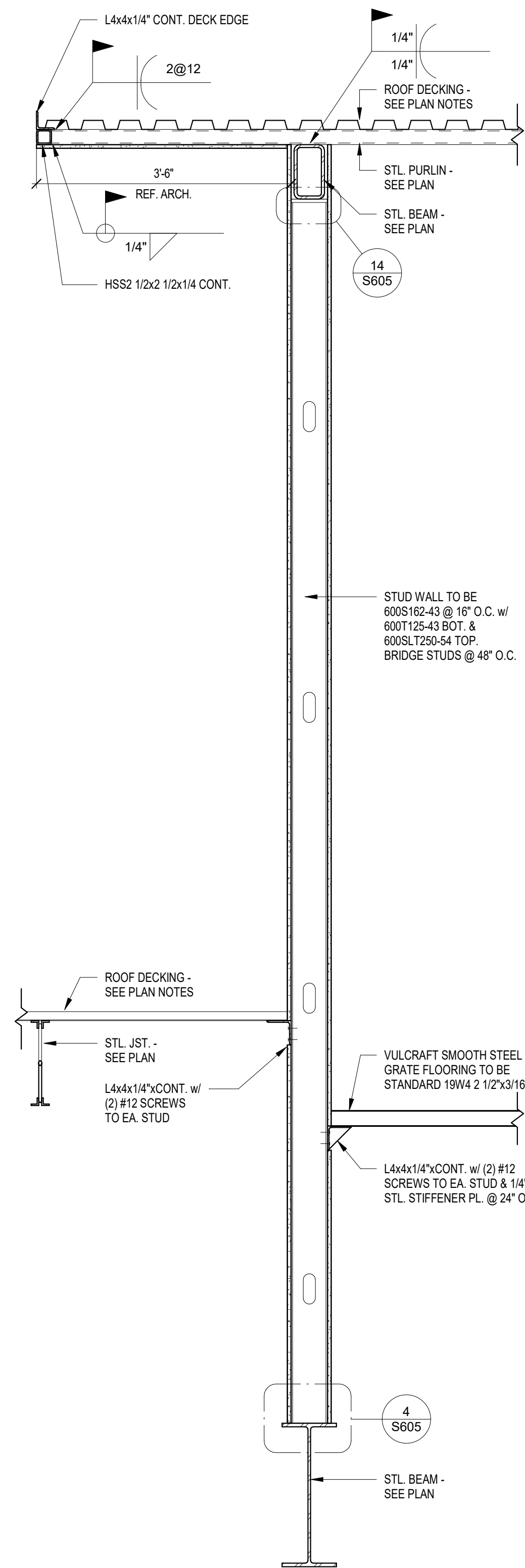




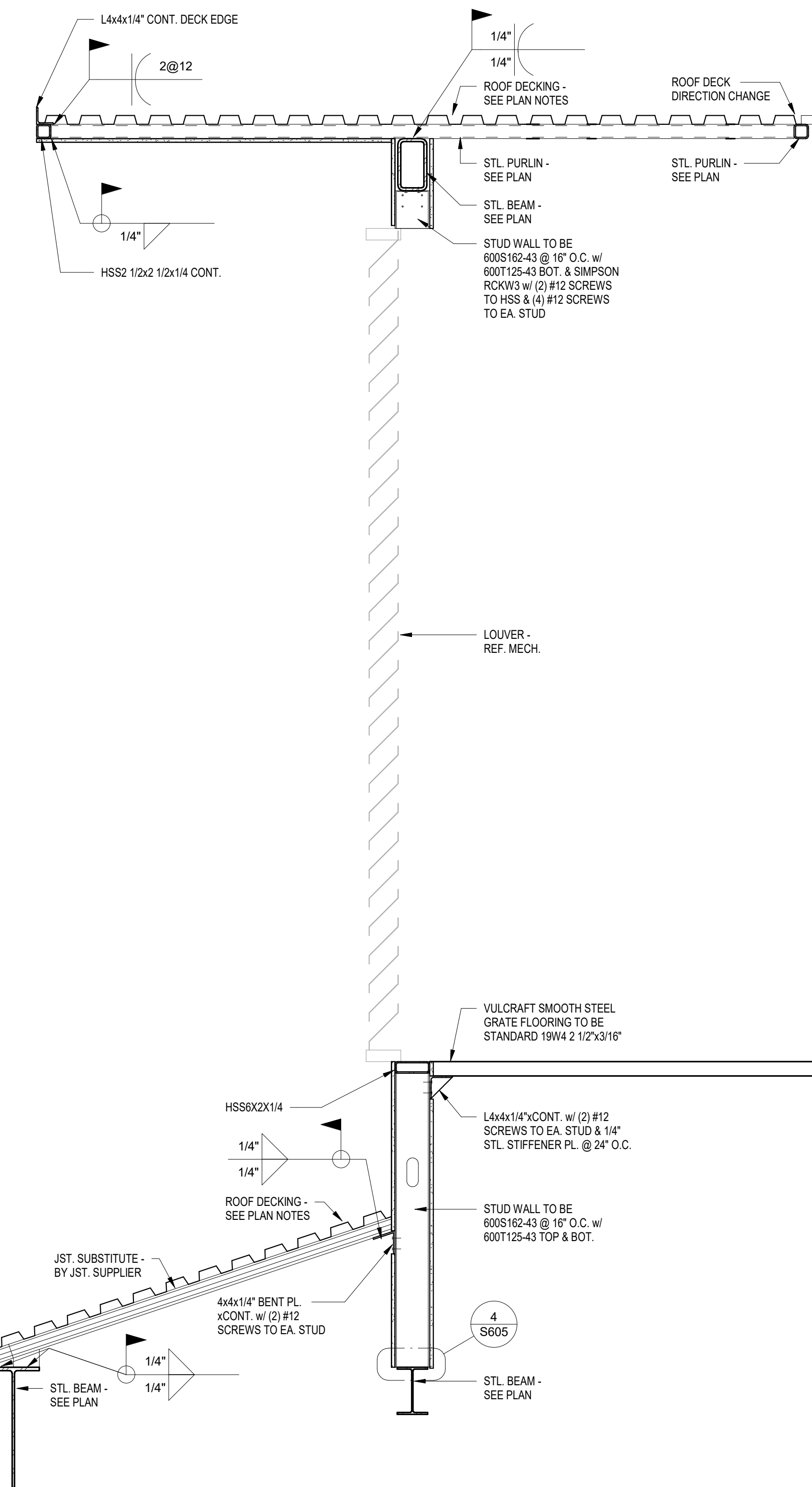
1 STL. JST. BRG. @ STL. BEAM  
3/4" = 1'-0"



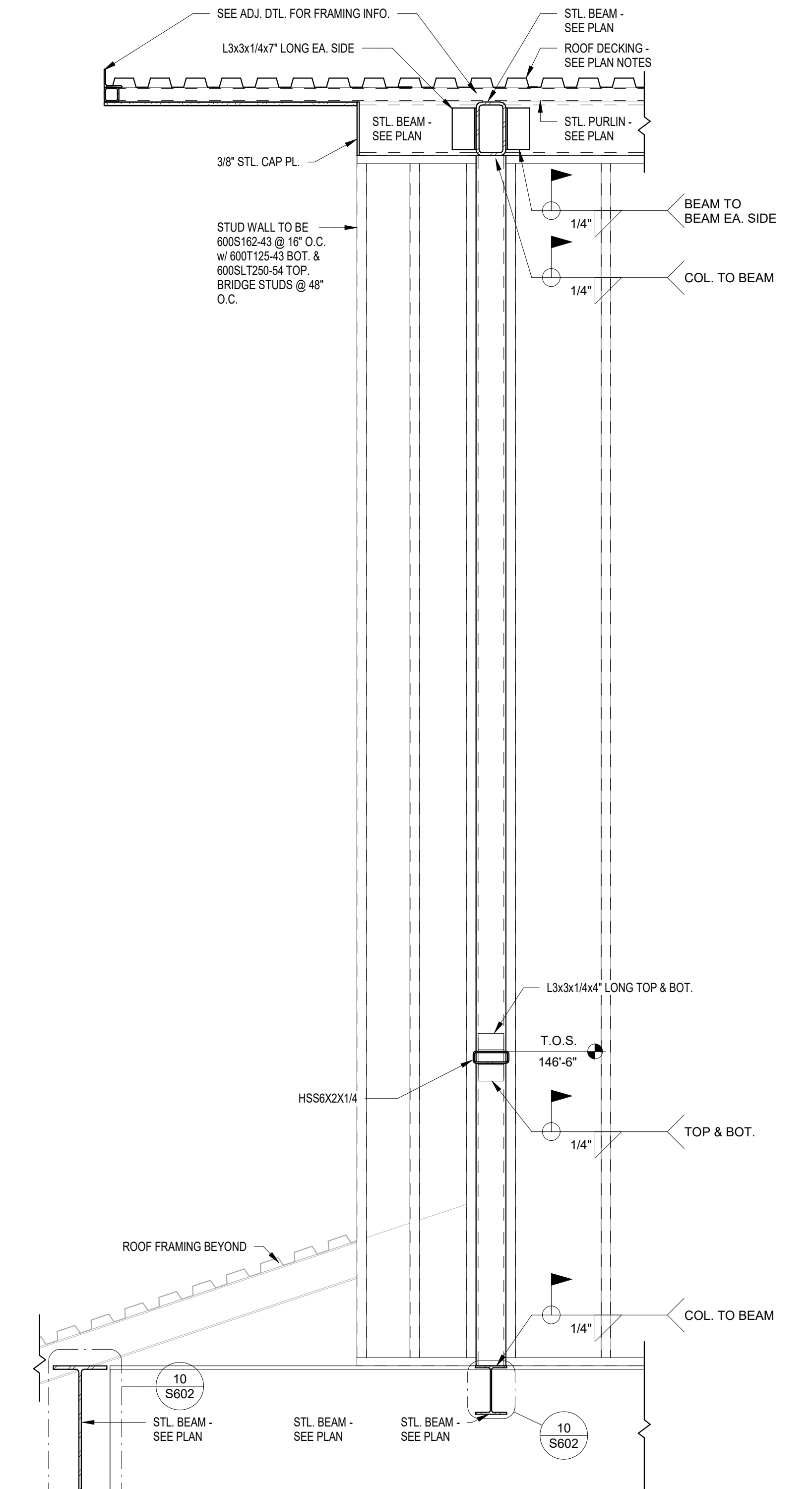
2 LG TRUSS BRG. NORTH END  
3/4" = 1'-0"



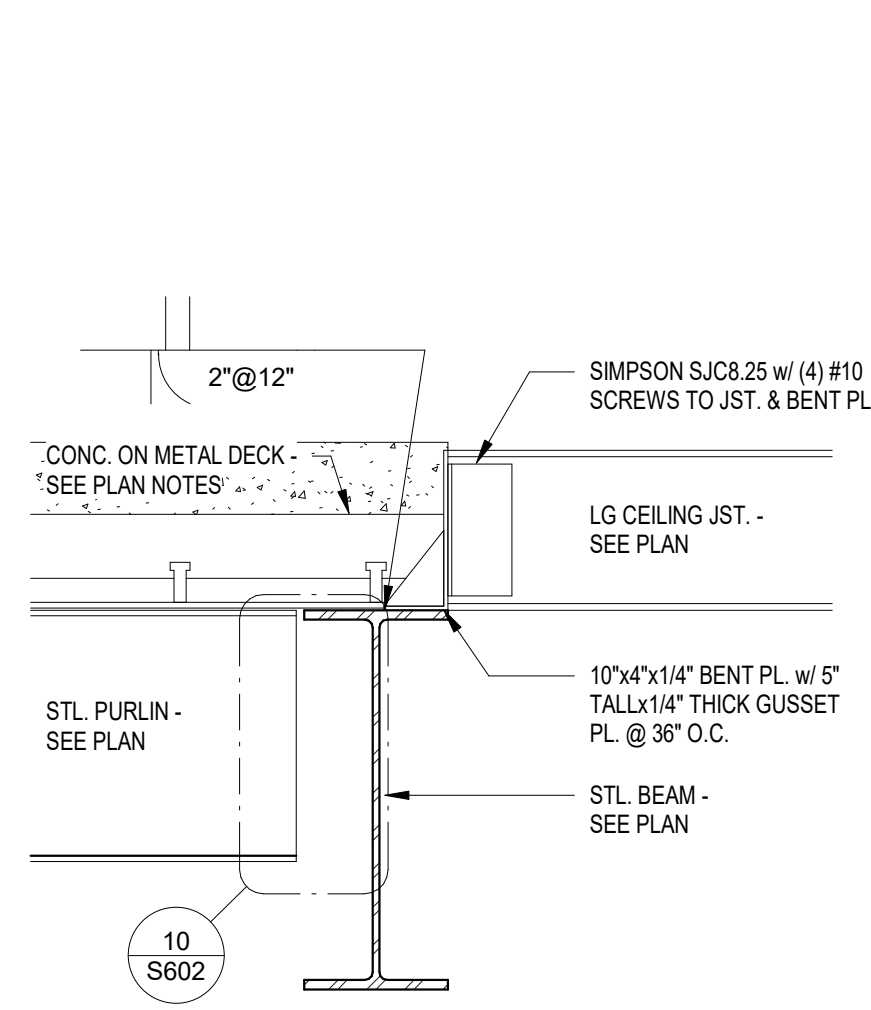
3 CHIMNEY ELEVATION  
3/4" = 1'-0"



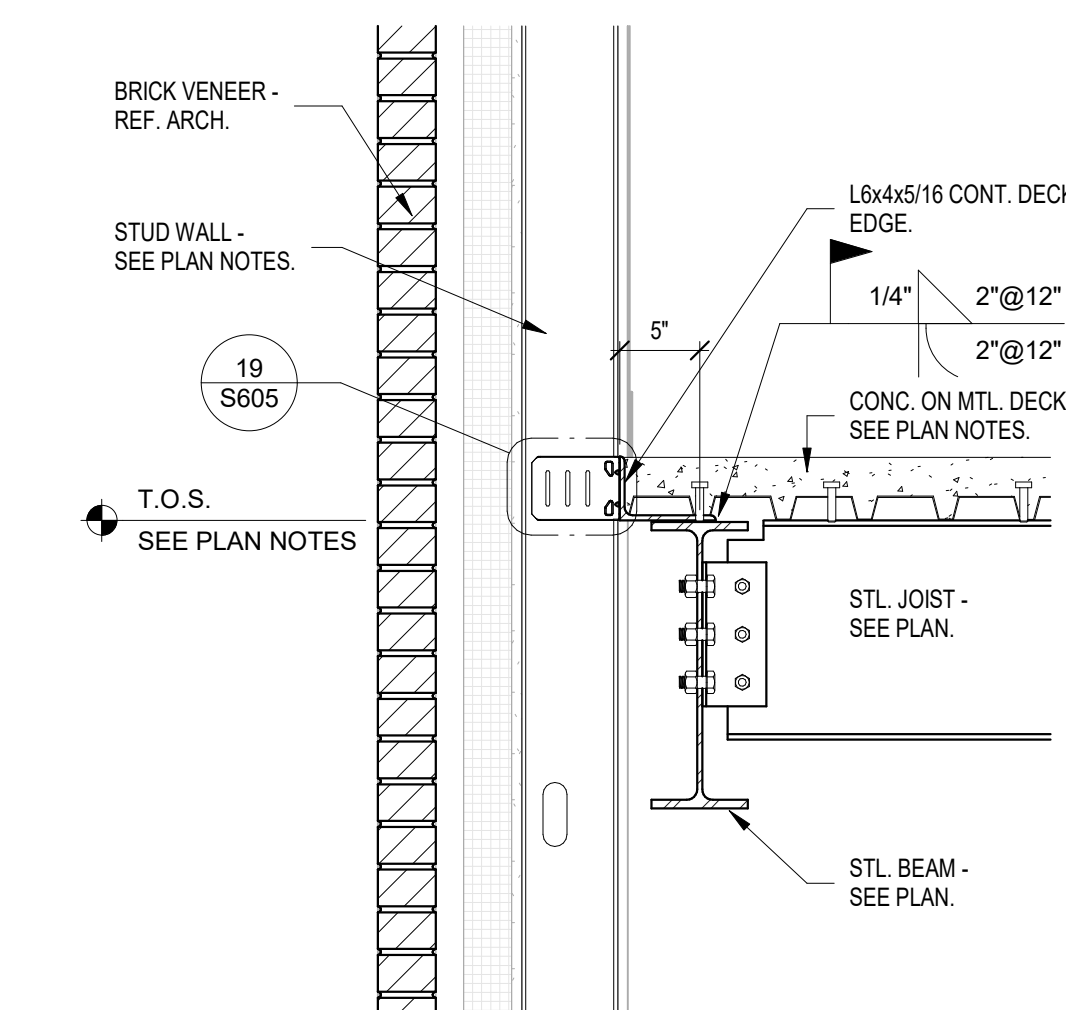
4 CHIMNEY ELEVATION 2  
3/4" = 1'-0"



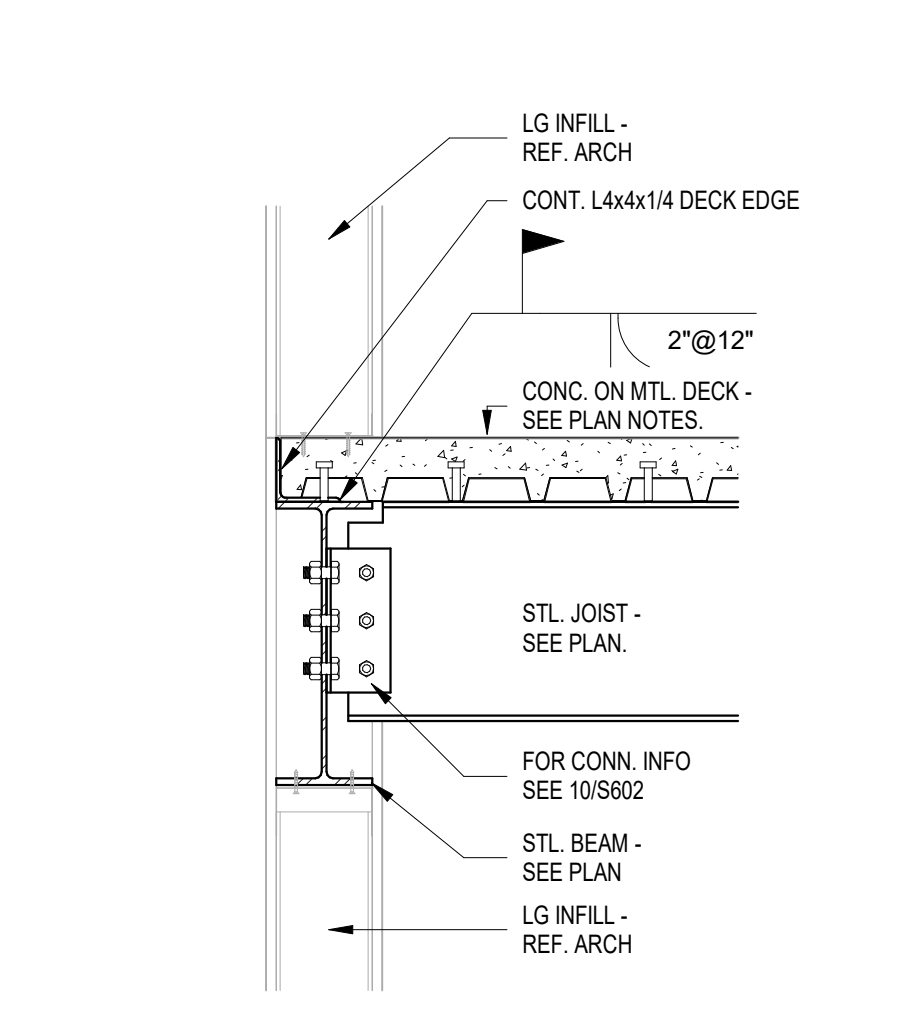
5 CHIMNEY ELEVATION 3  
3/4" = 1'-0"



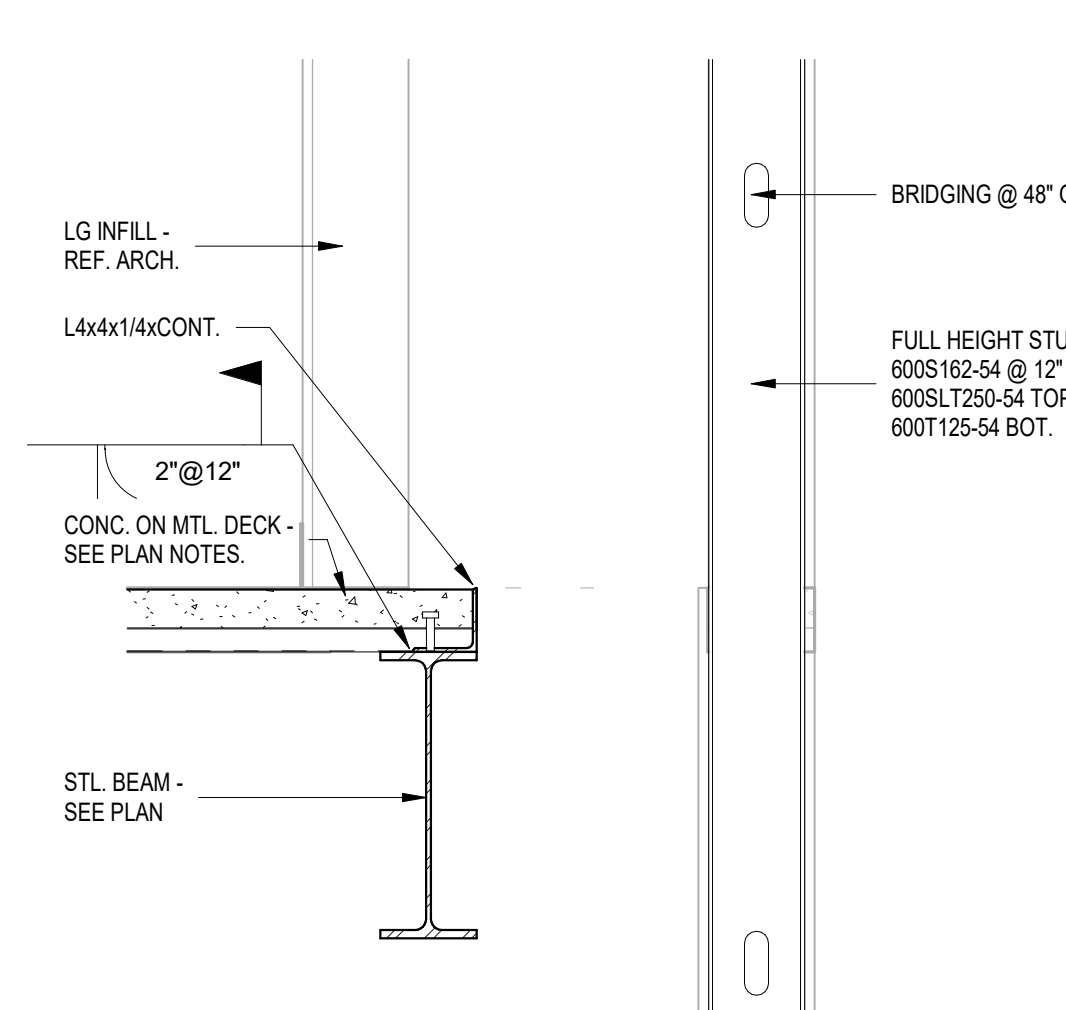
6 MEZZANINE BEAM & LG JST. BRG.  
1" = 1'-0"



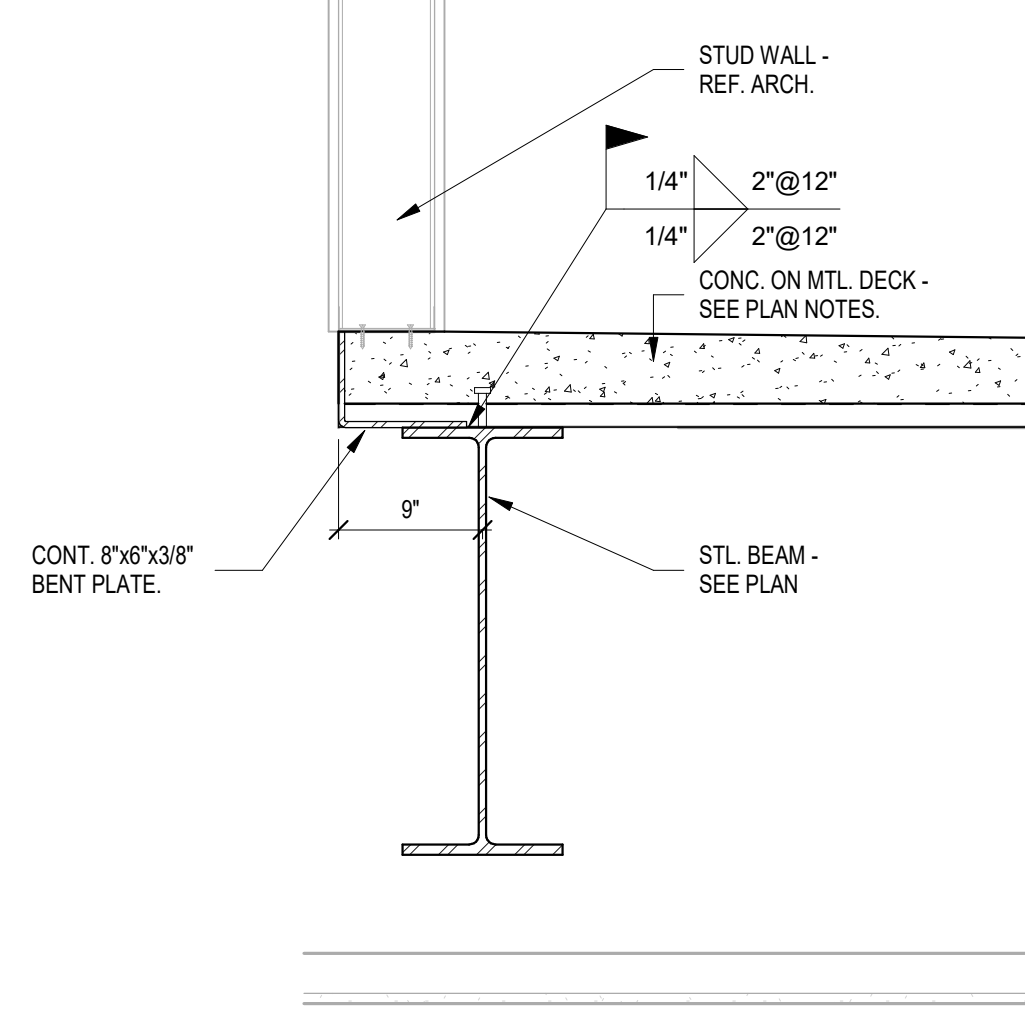
7 FLR. BEAM BRG. @ EXT. WALL  
1" = 1'-0"



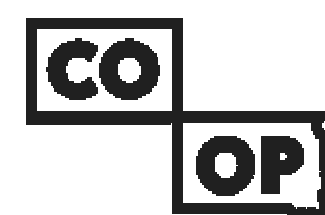
8 FLR. FRAMING @ SOUTH STAIRS  
1" = 1'-0"



9 FLR. FRAMING @ SOUTH STAIR CHASE  
1" = 1'-0"



10 DECK BRG. @ PENTHOUSE FLR.  
1" = 1'-0"



AndersonMasonDale  
Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-226-4852  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-291-9448  
FAX: 303-294-0762  
E-mail: bblancharh@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-226-1212  
E-mail: lucas@helmsengineering.com

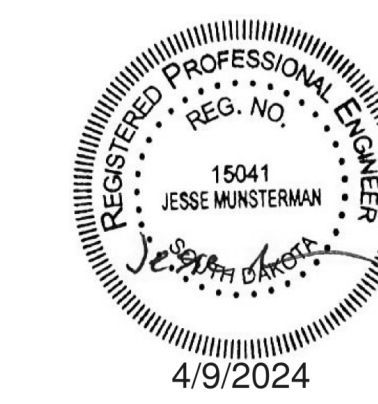
**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57106  
Telephone: 605-259-1205  
E-mail: lpudwill@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57106  
Telephone: 605-226-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-226-3344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-226-1349  
E-mail: thomas.henz@imegcorp.com

Seal	Issue	Date
	100% CD	09 APRIL 2024



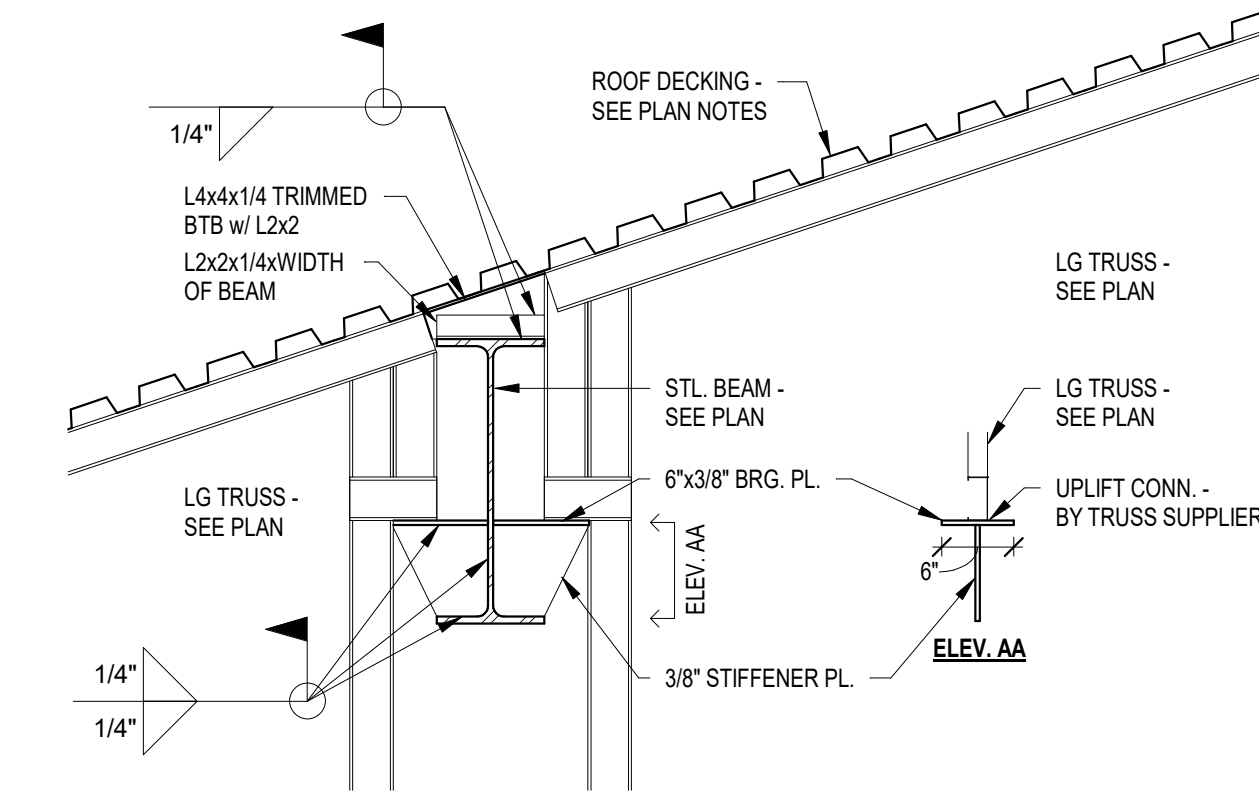
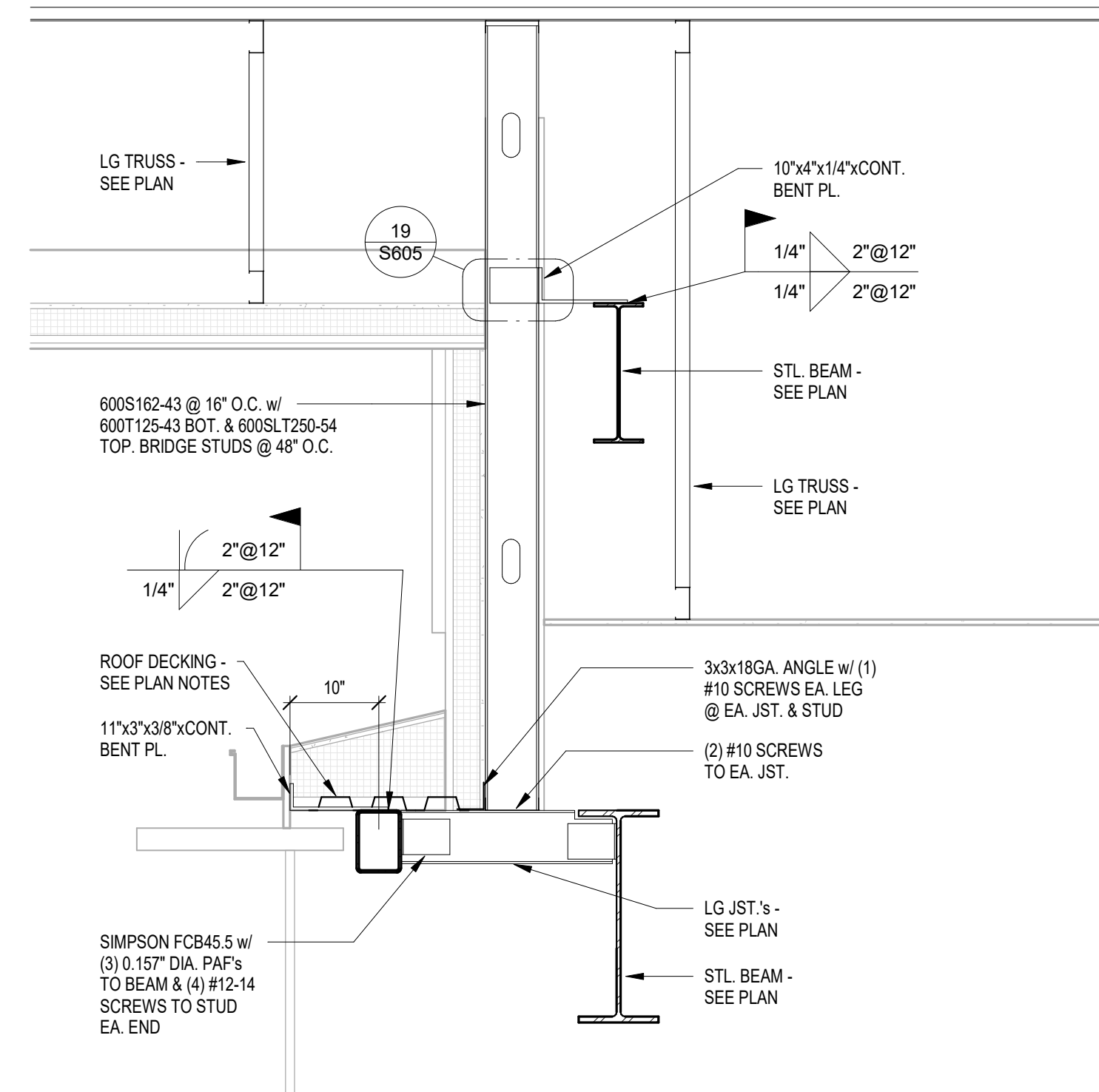
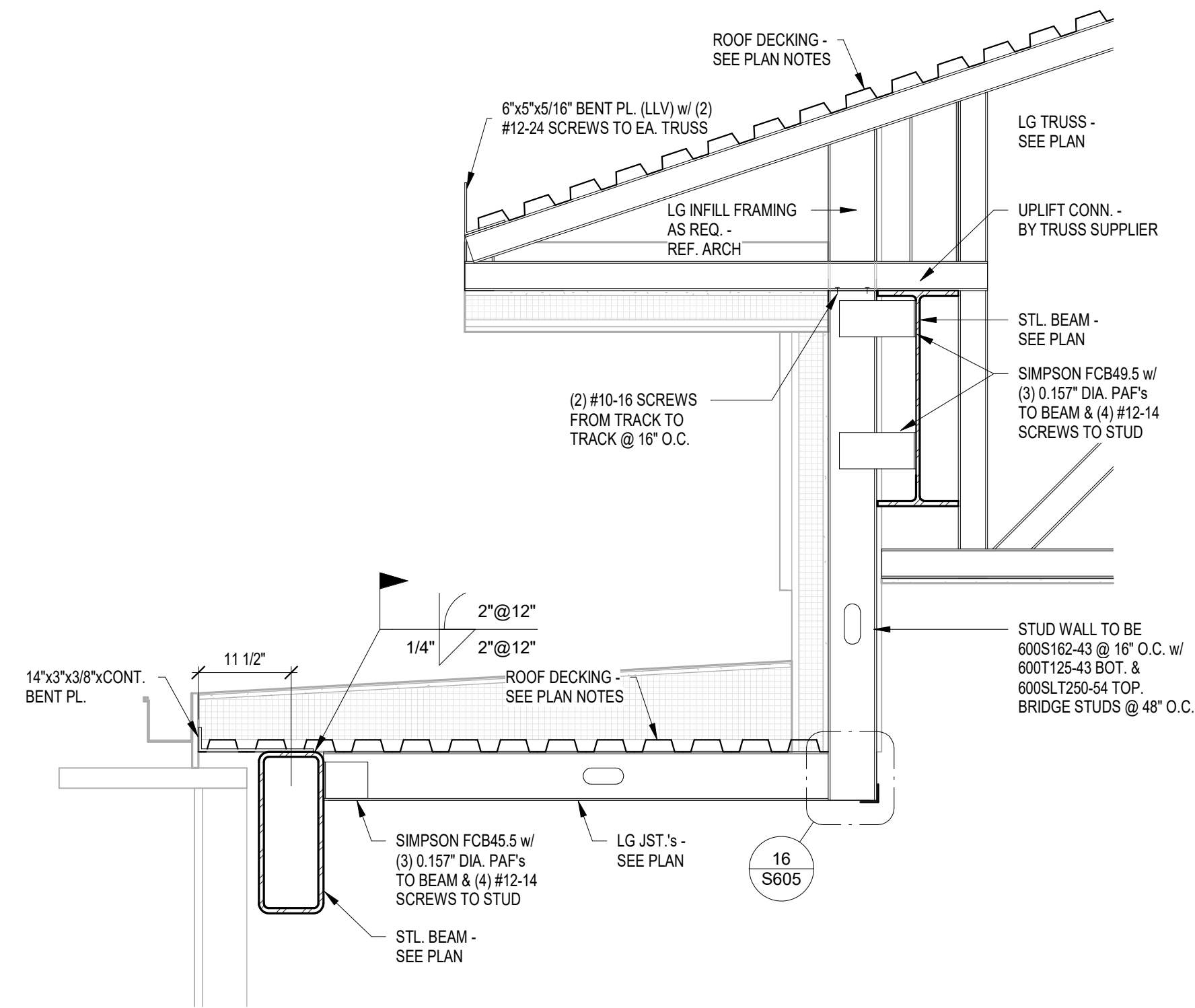
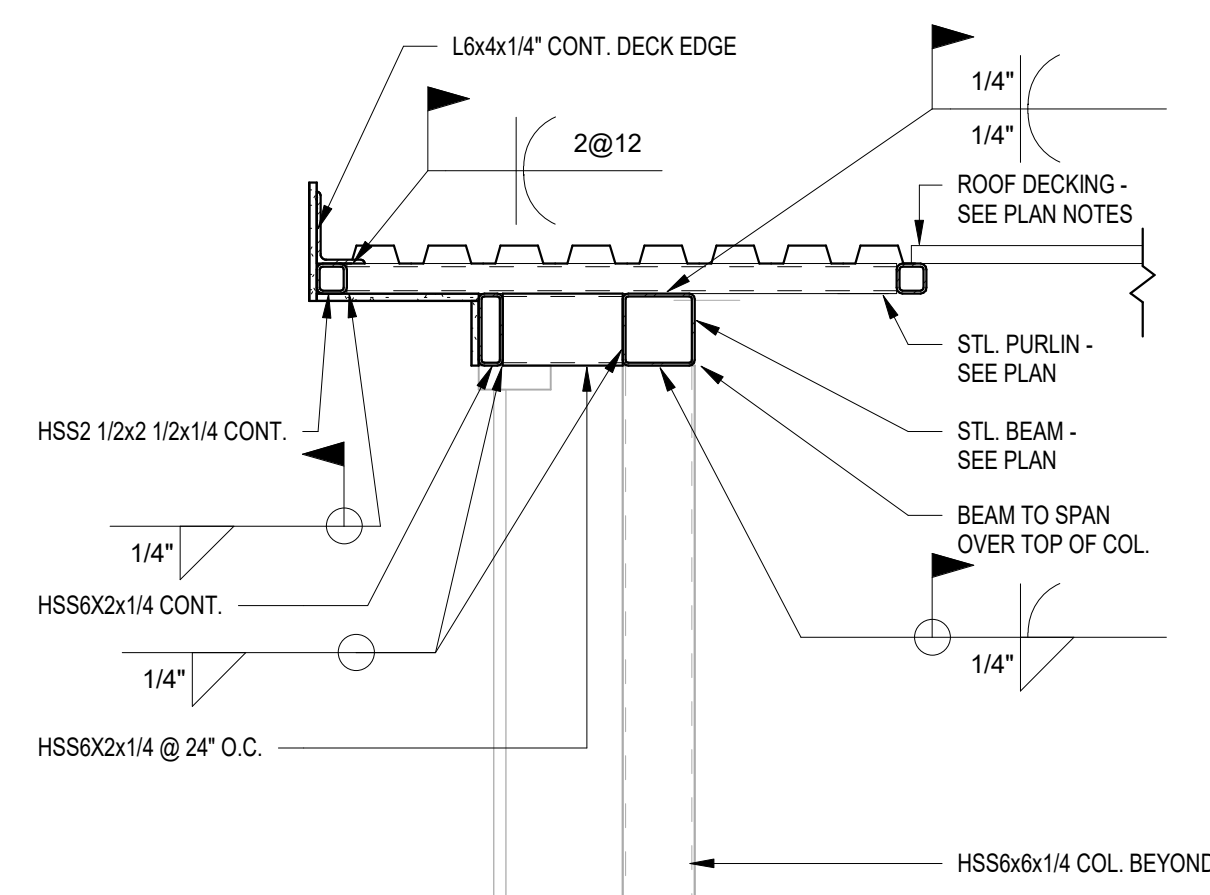
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1203 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number:	21-261
Drawn By:	CRG
Reviewed By:	JGM
Approved By:	JUC

STRUCTURAL DETAILS

S607

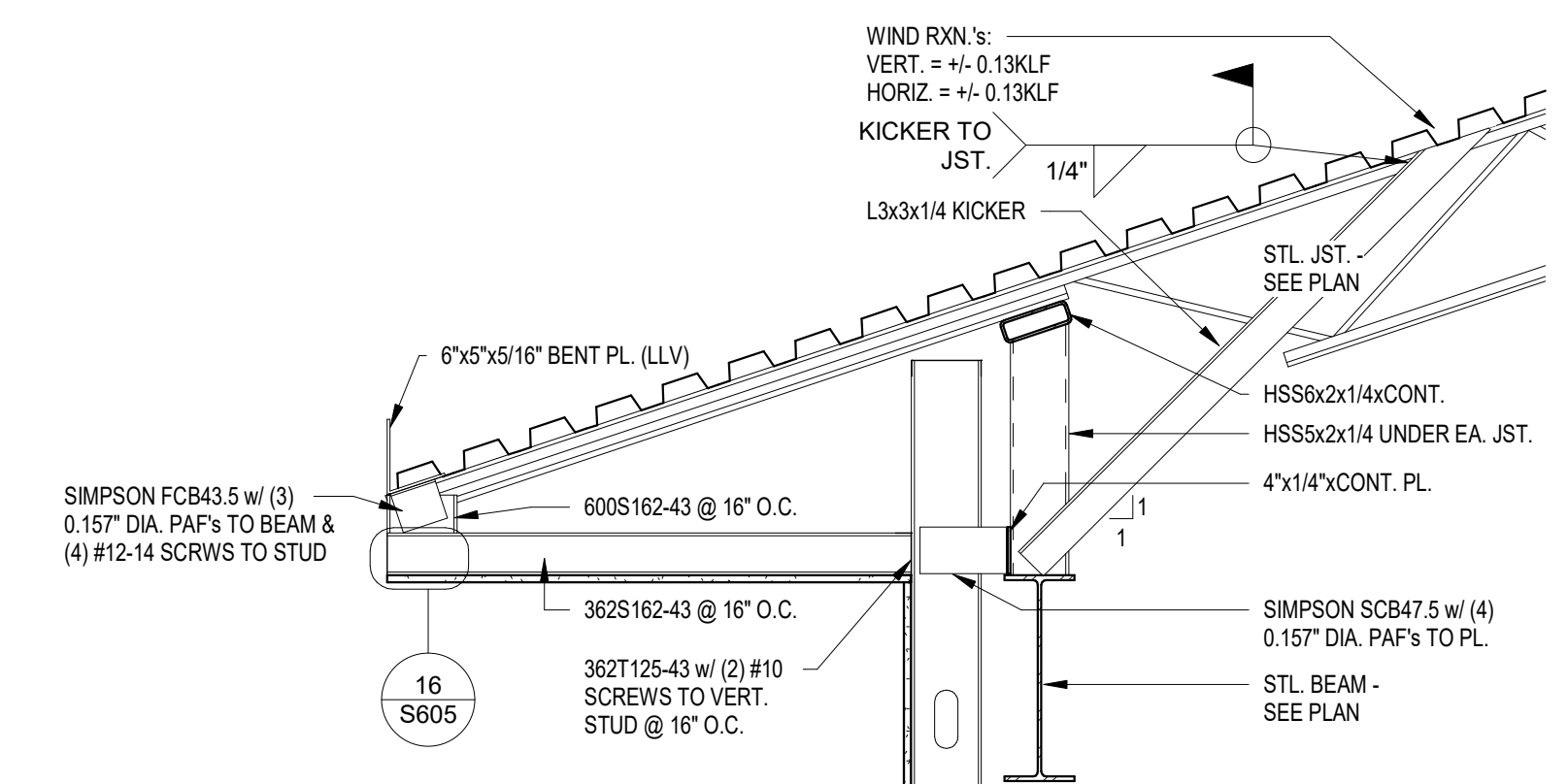
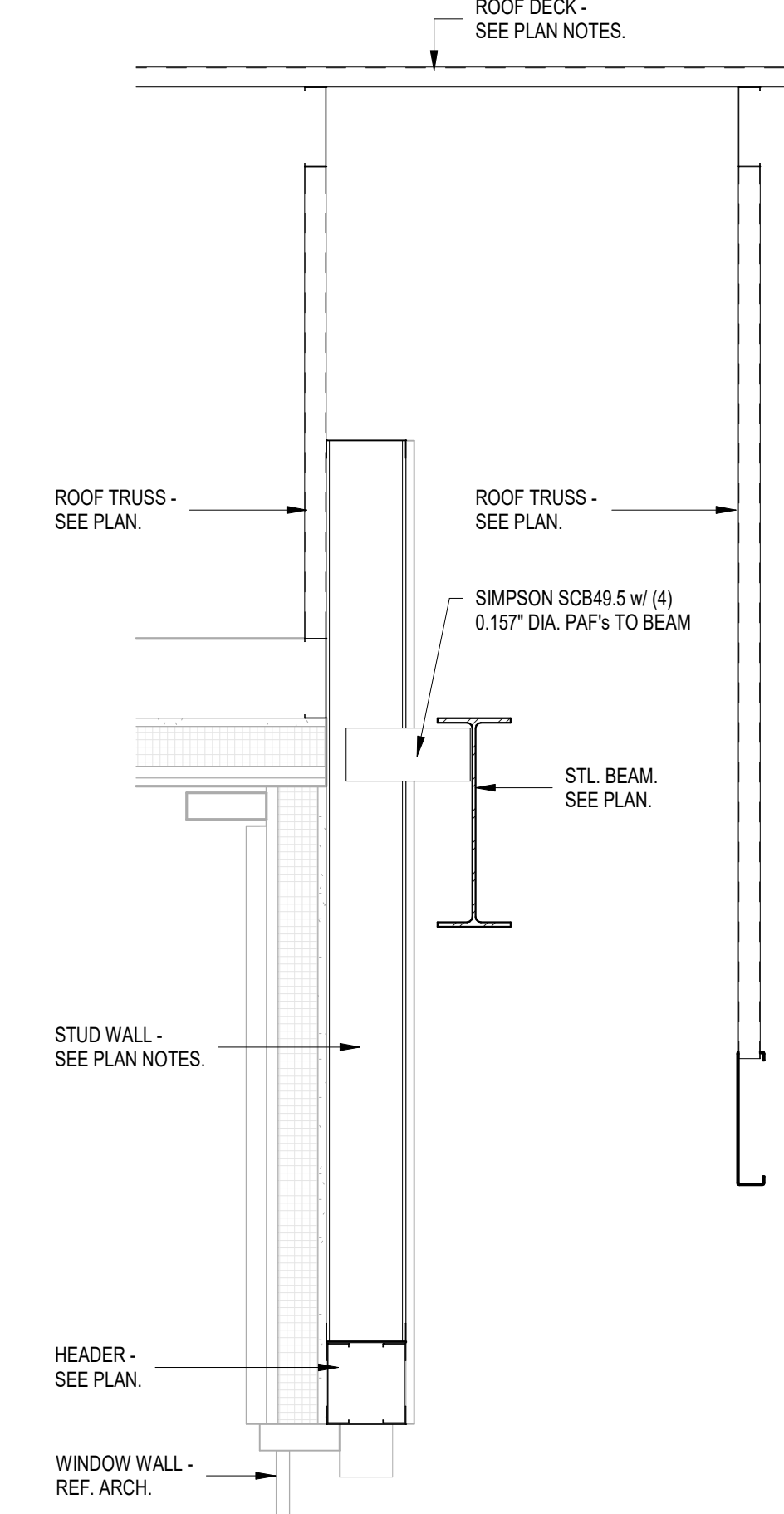
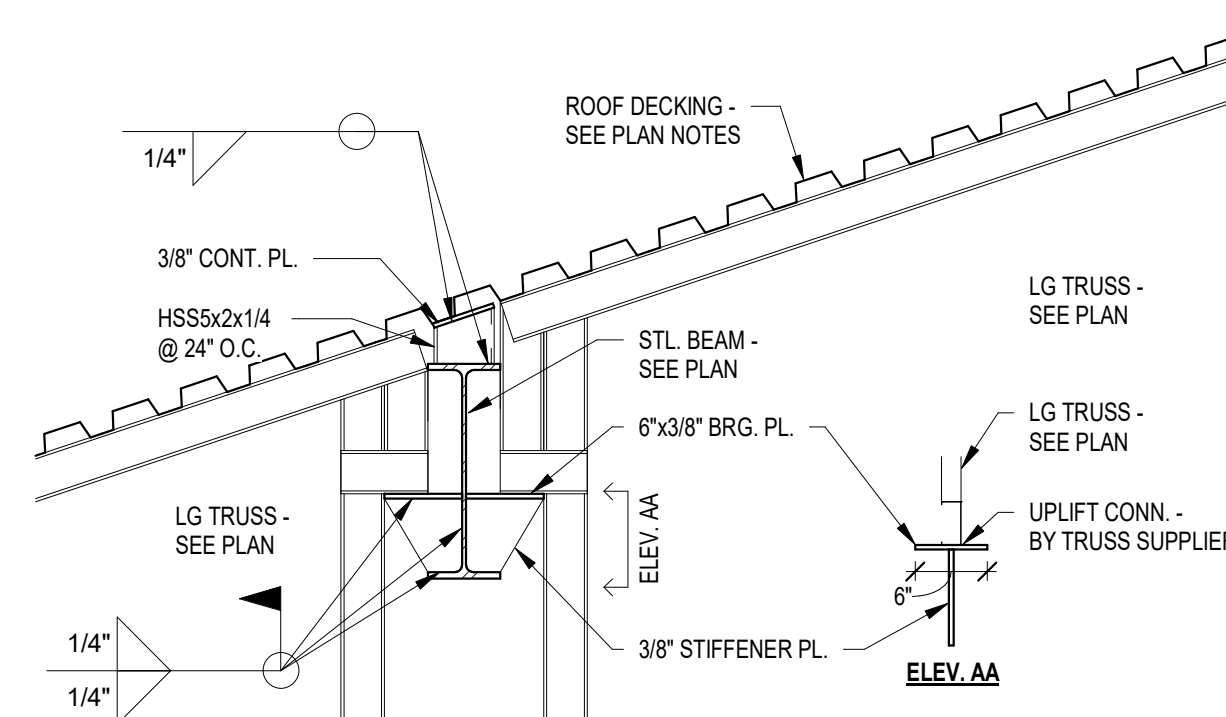
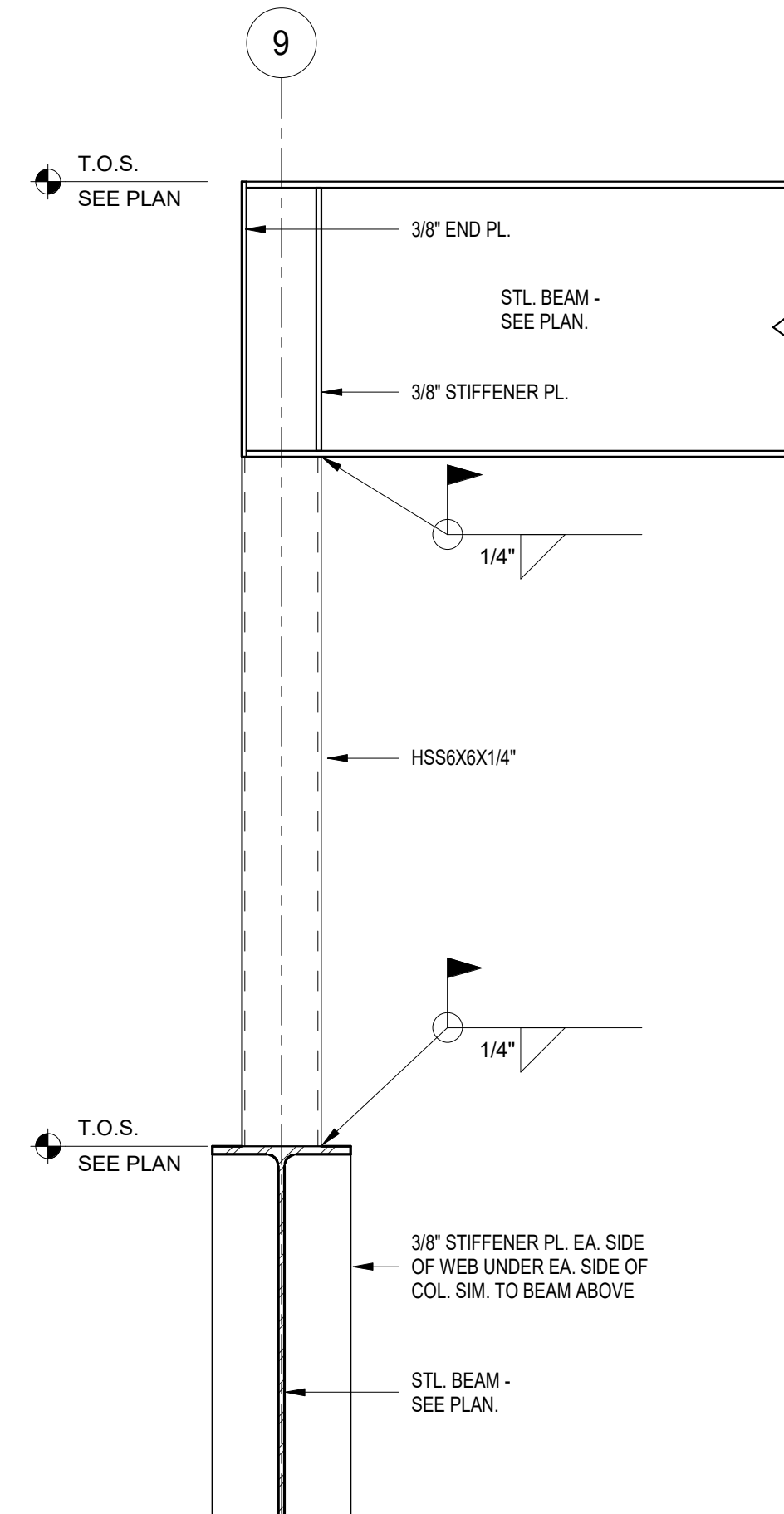
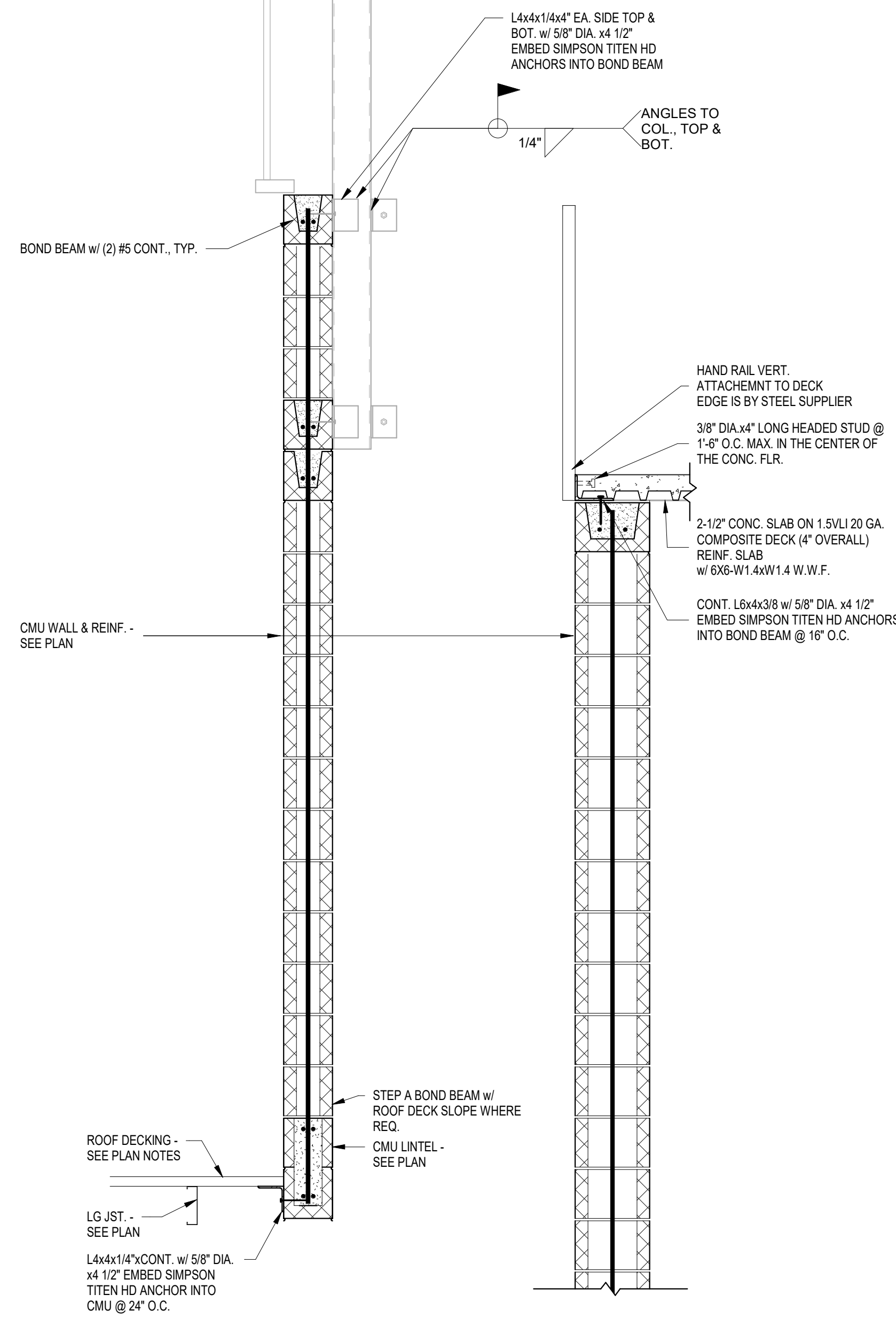




2 HIGH LOW ROOF DTL.  
3/4" = 1'-0"

3 HIGH LOW ROOF DTL. 2  
3/4" = 1'-0"

4 LG ROOF TRUSS BRG. @ STL. BEAM  
3/4" = 1'-0"



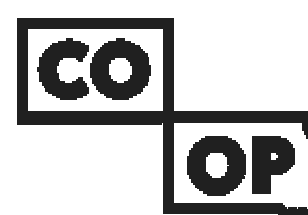
1 ELEVATOR ELEVATION  
3/4" = 1'-0"

5 COL. BRG. ON BM. @ ROOF  
1" = 1'-0"

6 LG TRUS BRG. @ STL. BEAM 2  
3/4" = 1'-0"

7 ROOF FRAMING DETAIL  
1" = 1'-0"

8 ROOF STL. JST. BRG. @ LOW BEAM  
3/4" = 1'-0"



AndersonMasonDale  
Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4952  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 605-225-4948  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-225-1205  
E-mail: lpudwill@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-225-3344  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: traviss@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.hernz@imegcorp.com



Seal Issue Date  
100% CD 09 APRIL 2024

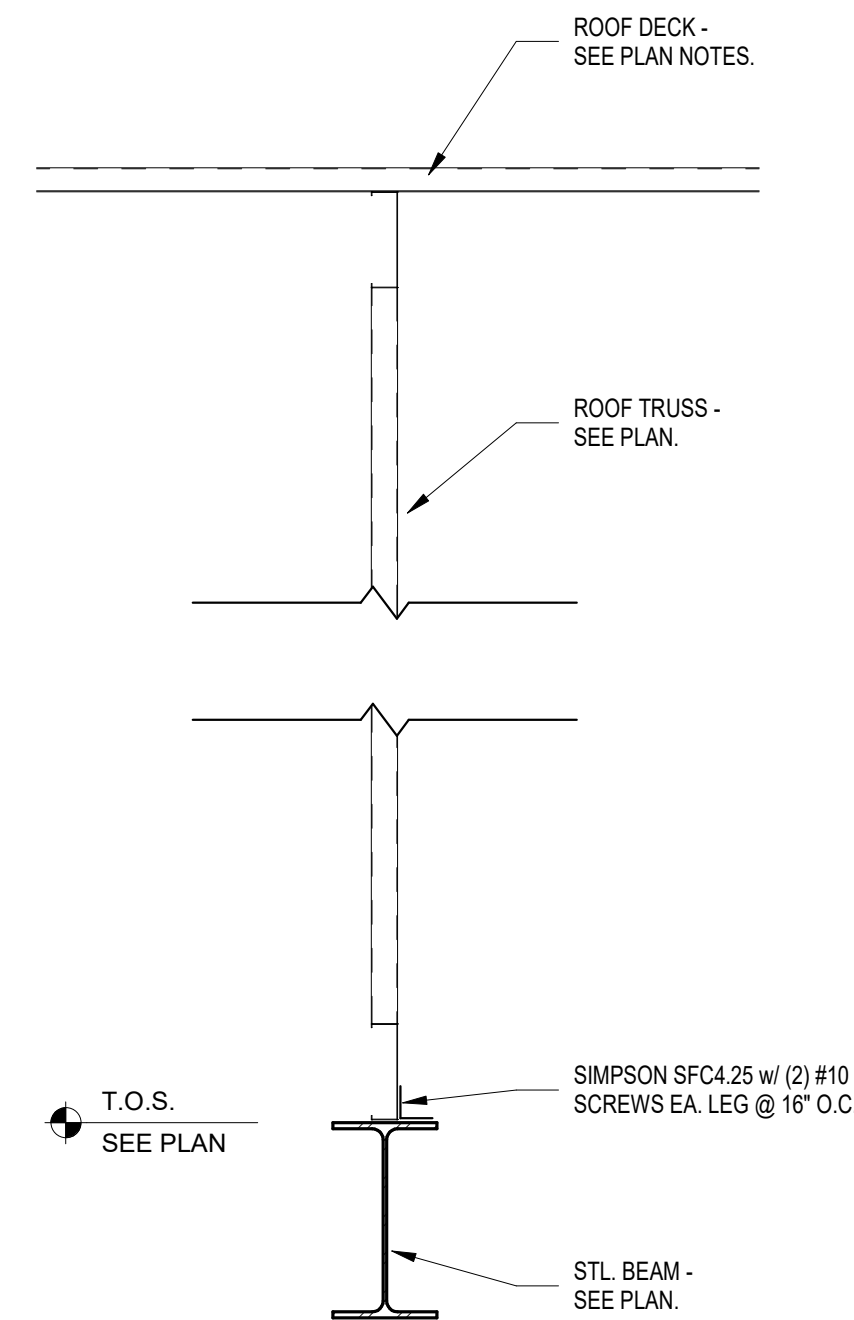
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
Northern State University  
1203 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

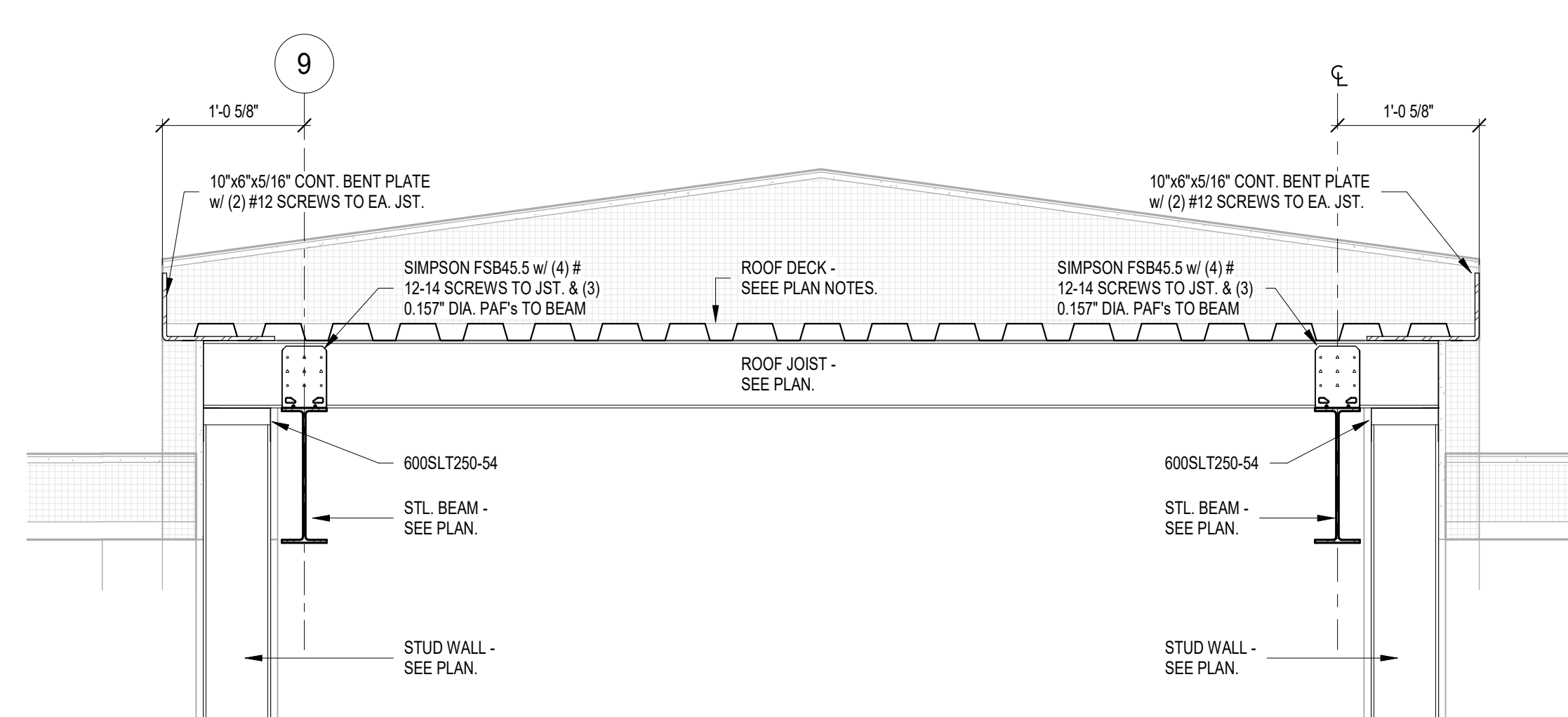
STRUCTURAL DETAILS

S608

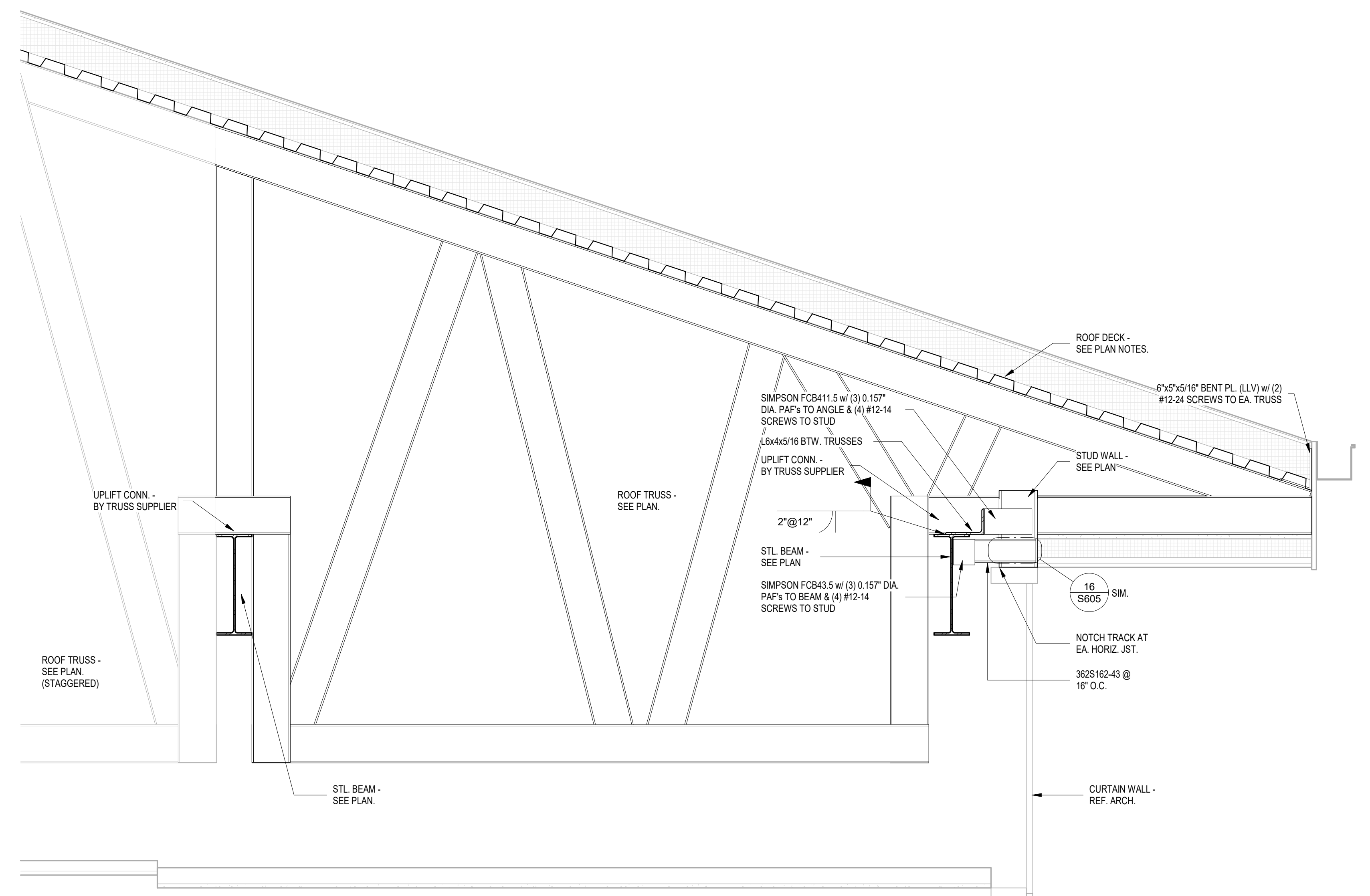




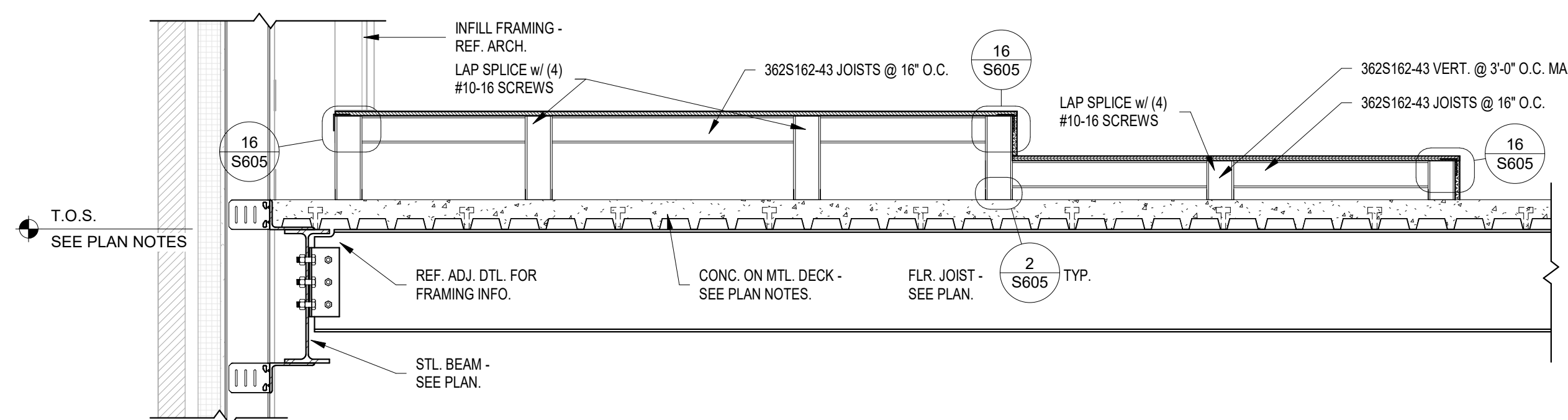
1 ROOF TRUSS ON STL. MOMENT/BRACED FRAME BEAM  
1" = 1'-0"



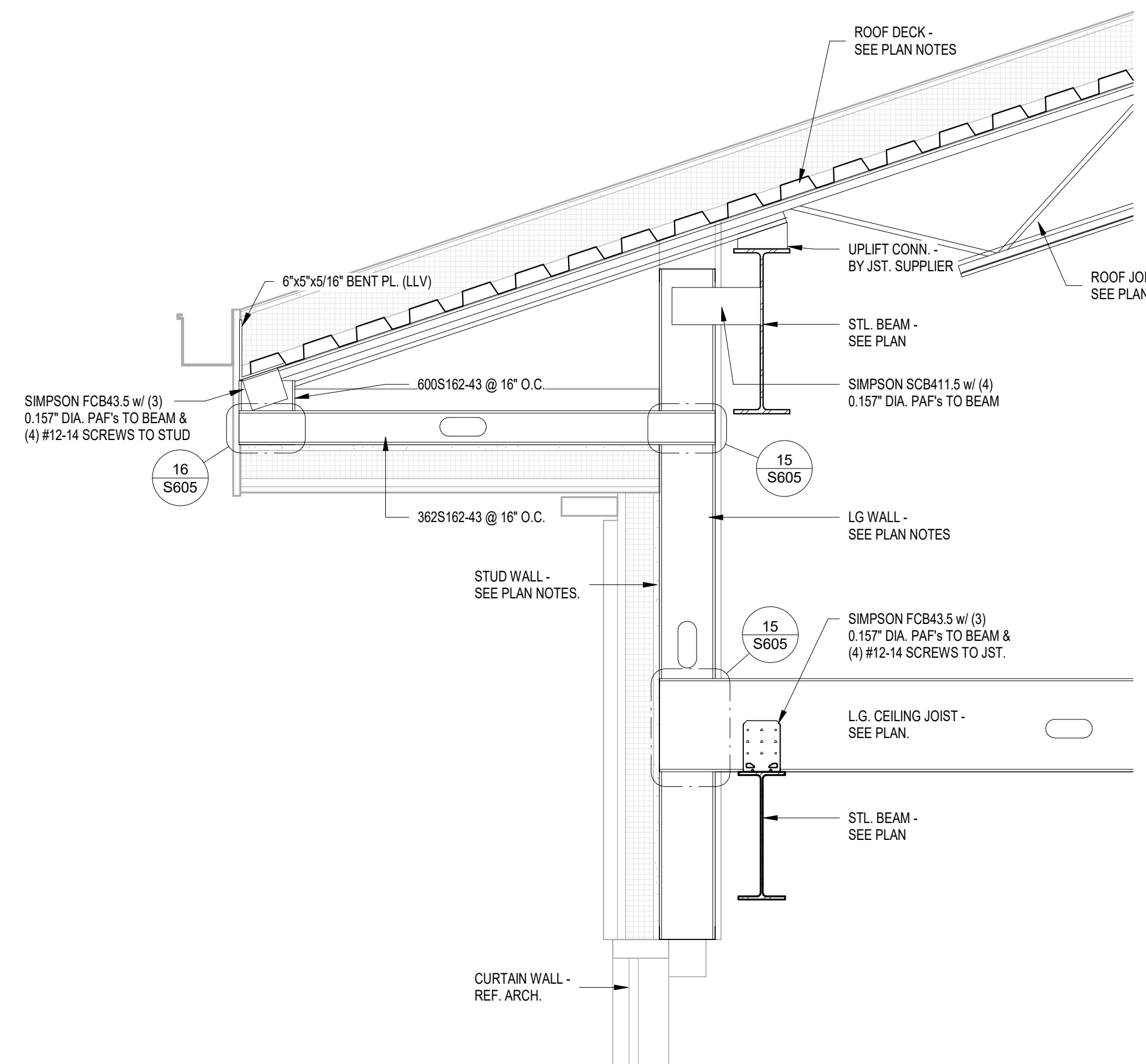
2 ROOF FRAMING OVER MECHANICAL HALLWAY  
1" = 1'-0"



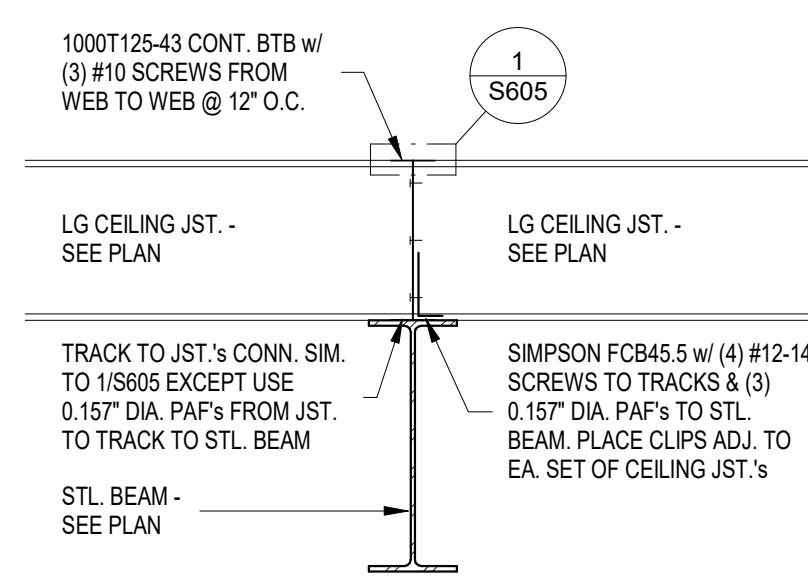
3 ROOF TRUSS BRG. @ WEST VESTIBULE  
1" = 1'-0"



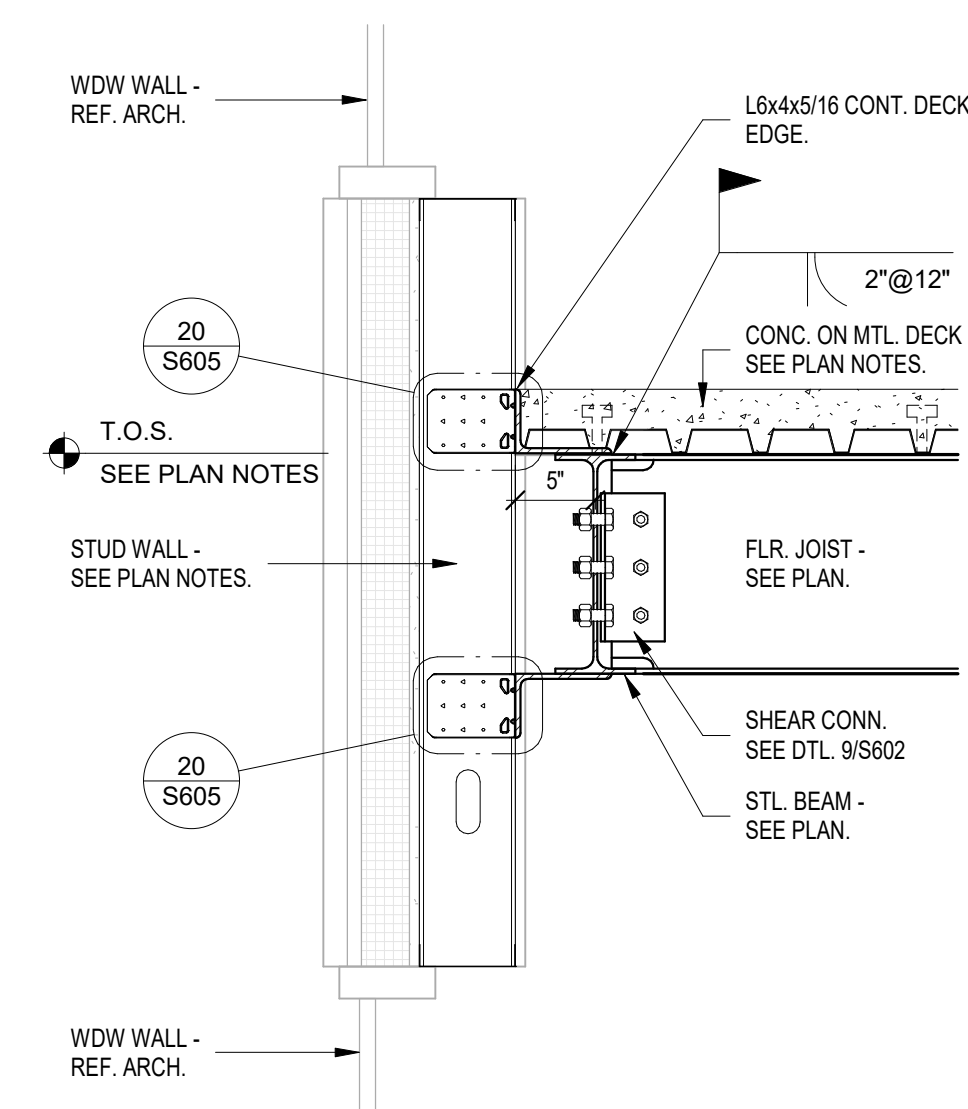
4 CLASSROOM PLATFORM FRAMING  
3/4" = 1'-0"



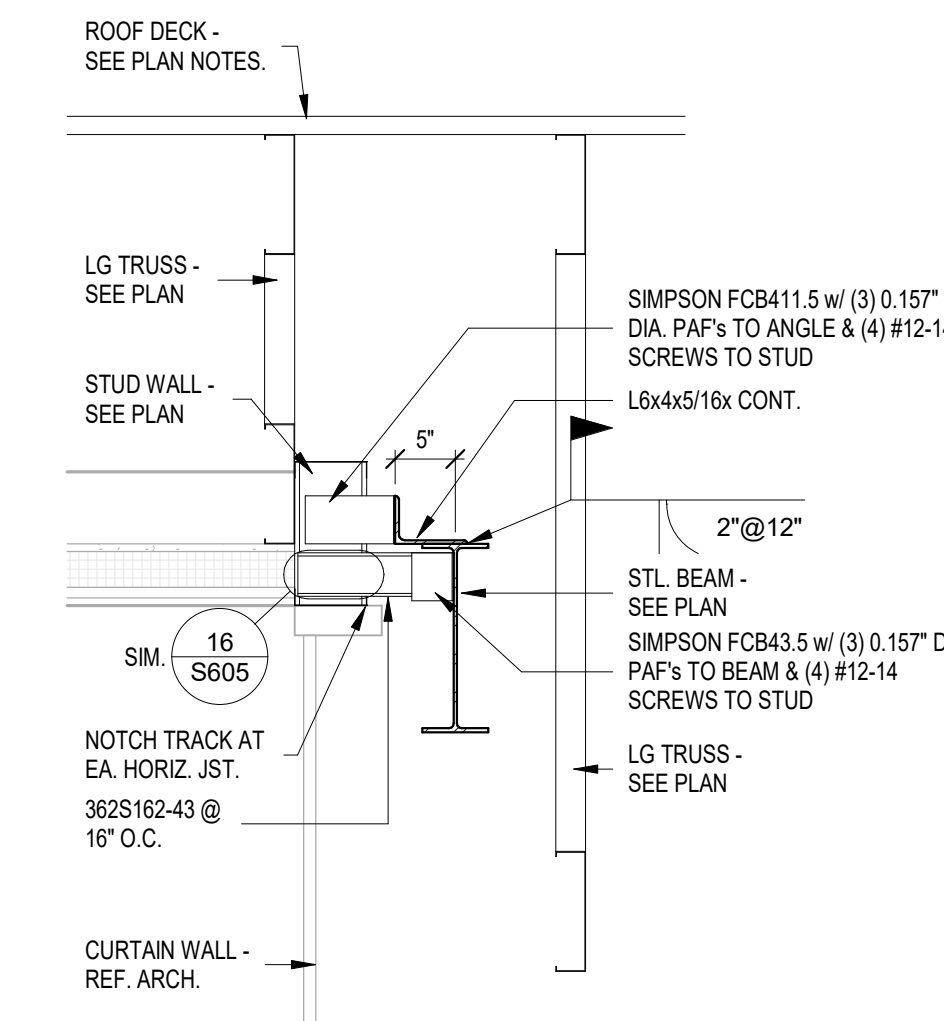
7 BAR JOIST BRG. @ EXT. WALL 3  
1" = 1'-0"



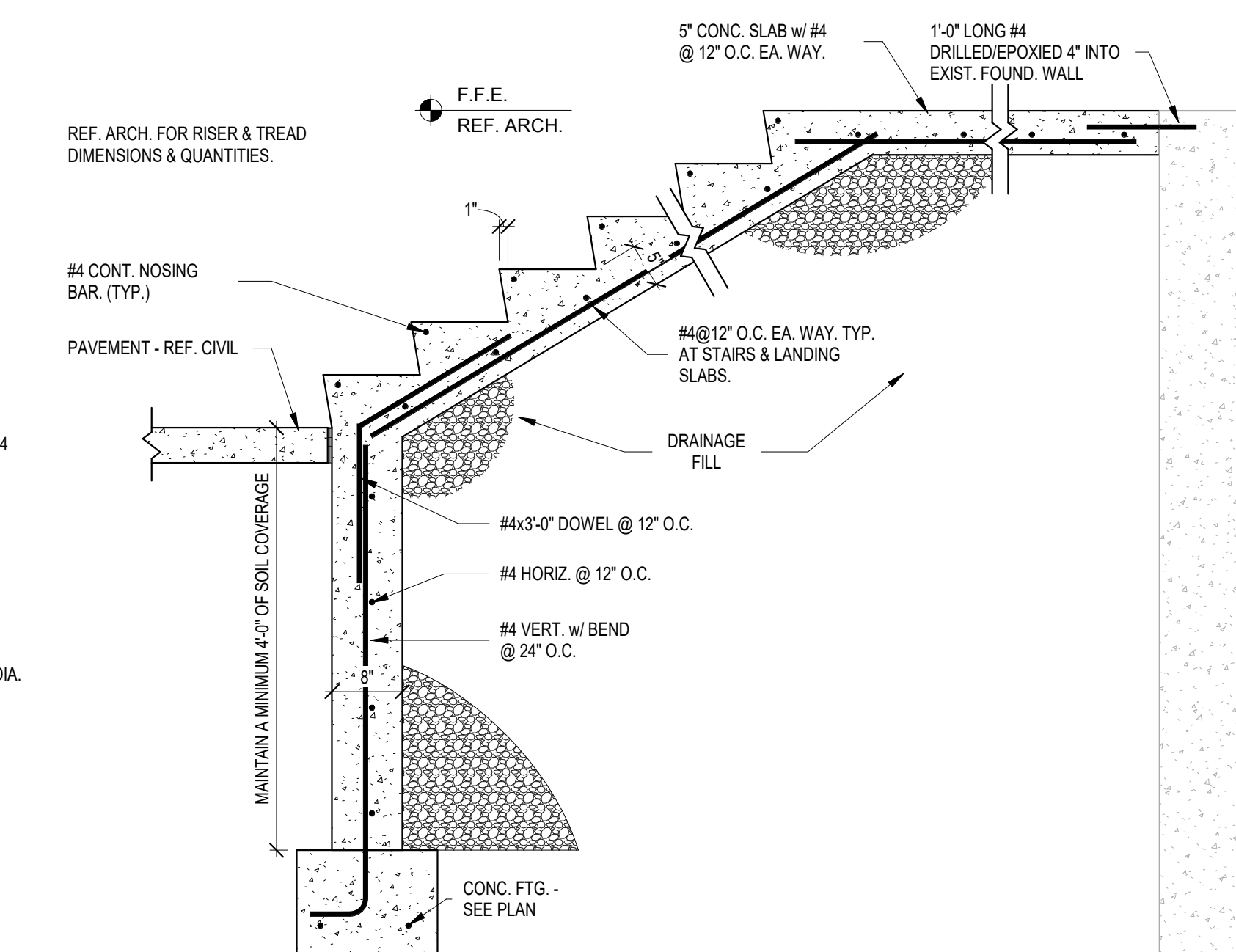
5 LG CEILING JST.'s BRG. @ STL. BEAM  
1" = 1'-0"



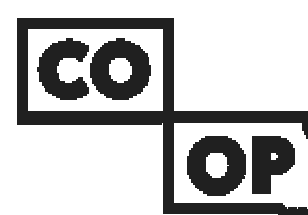
6 FLR. BM. BEARING @ EXT. WALL 4  
1" = 1'-0"



8 ROOF FRAMING DETAIL 2  
3/4" = 1'-0"



9 SECTION @ CONC. STEPS  
3/4" = 1'-0"



AndersonMasonDale  
Architects

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4952  
E-mail: tom@co-oparch.com

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucash@helmsengineering.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57104  
Telephone: 605-339-1205  
E-mail: lpudwill@thinkconfluence.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-743-1310  
E-mail: jchristensen@riseincorp.com

**Mech & Plumbing Engineer**  
Sichmoller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: travis@siceng.biz

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.henz@imegcorp.com

Seal	Issue	Date
	100% CD	09 APRIL 2024
	<p>4/9/2024</p>	

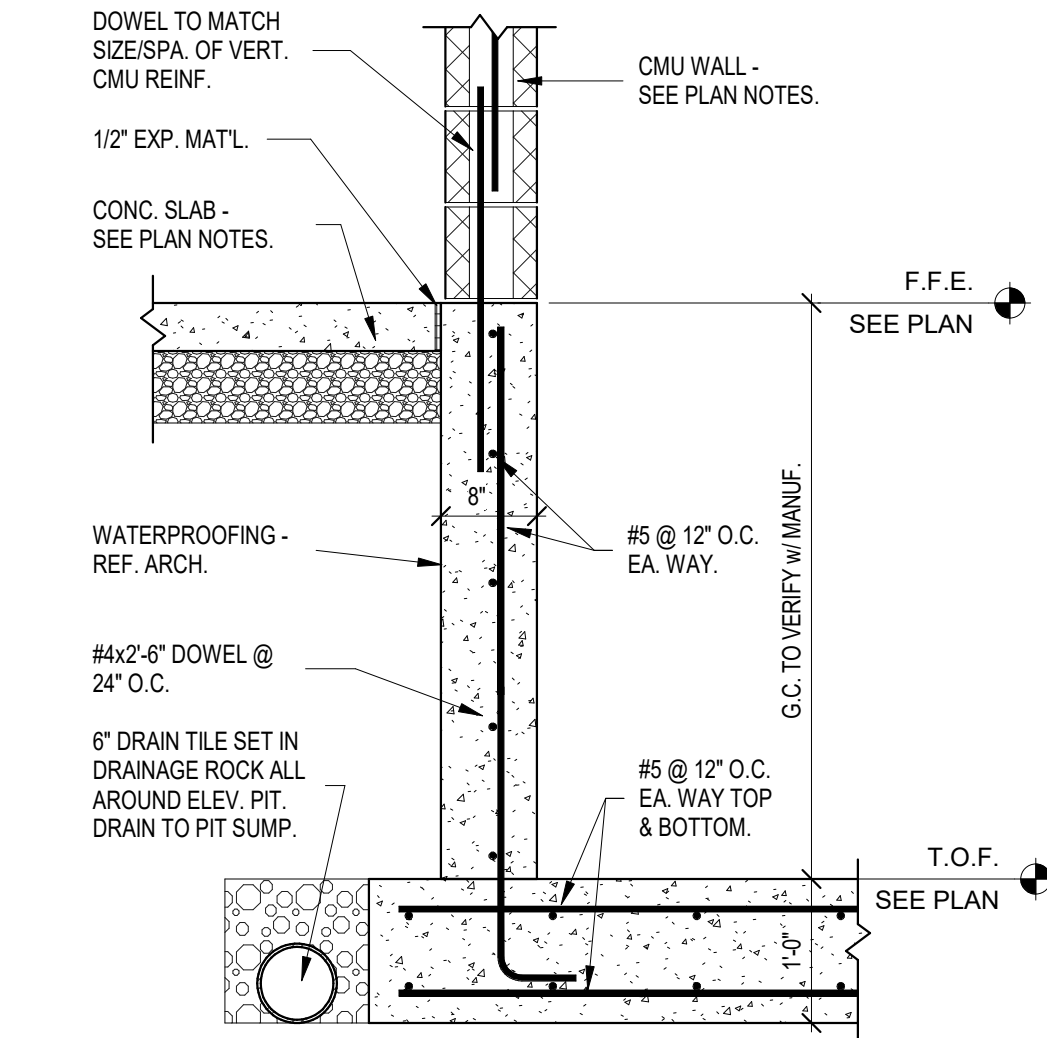
**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1203 S. Jay St.  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC

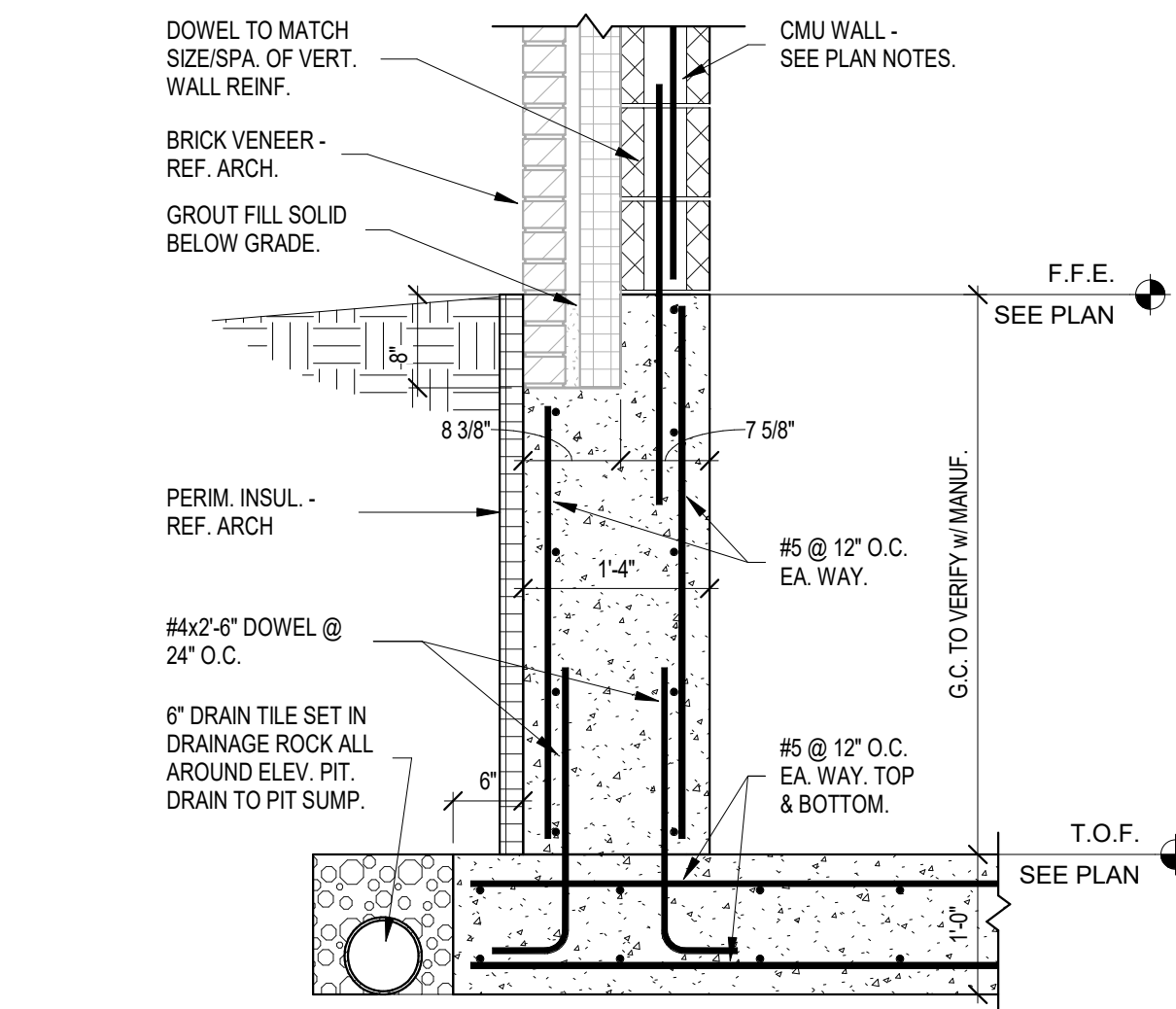
STRUCTURAL DETAILS

S609

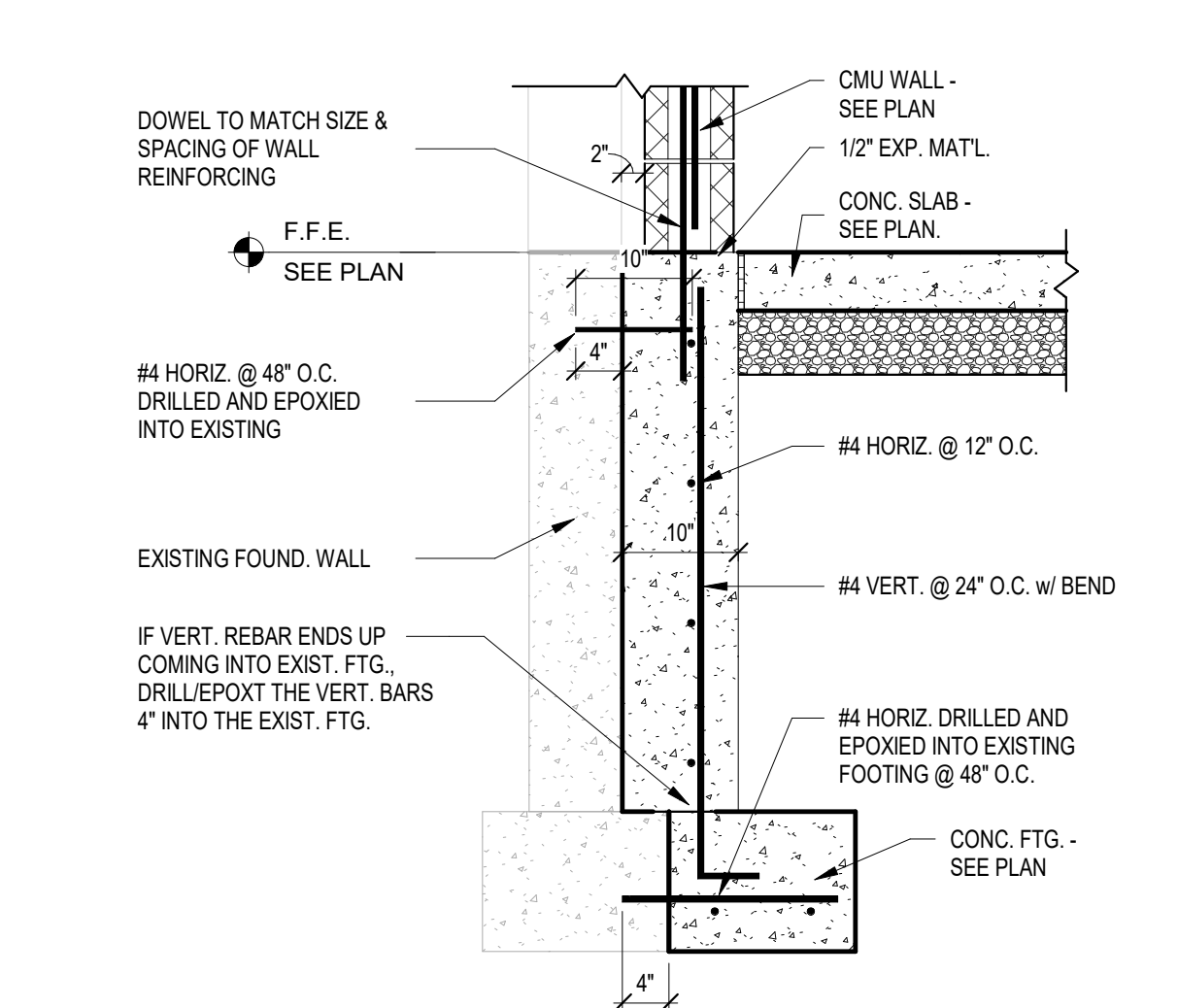




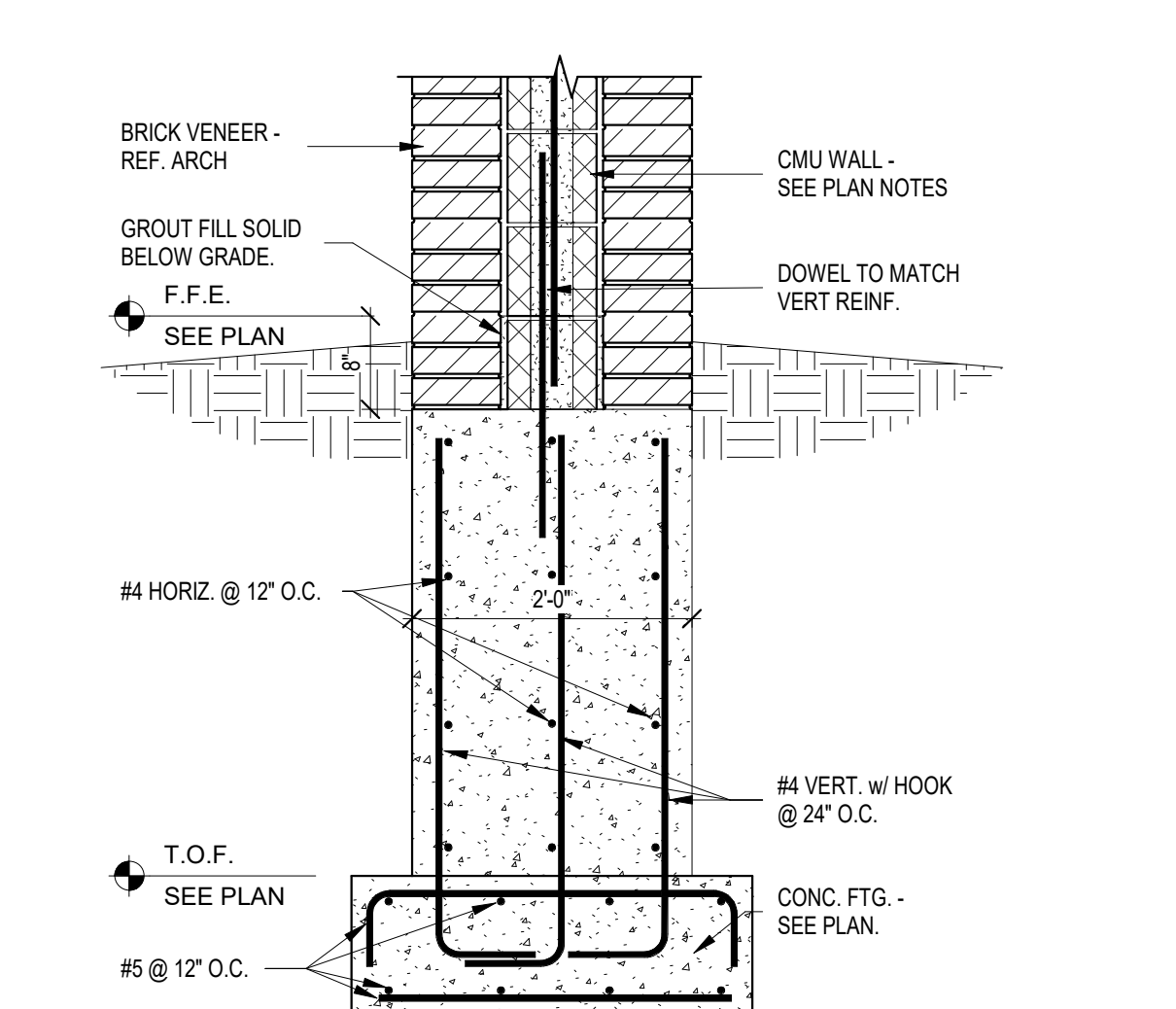
1 ELEV. PIT SECTION  
3/4" = 1'-0"



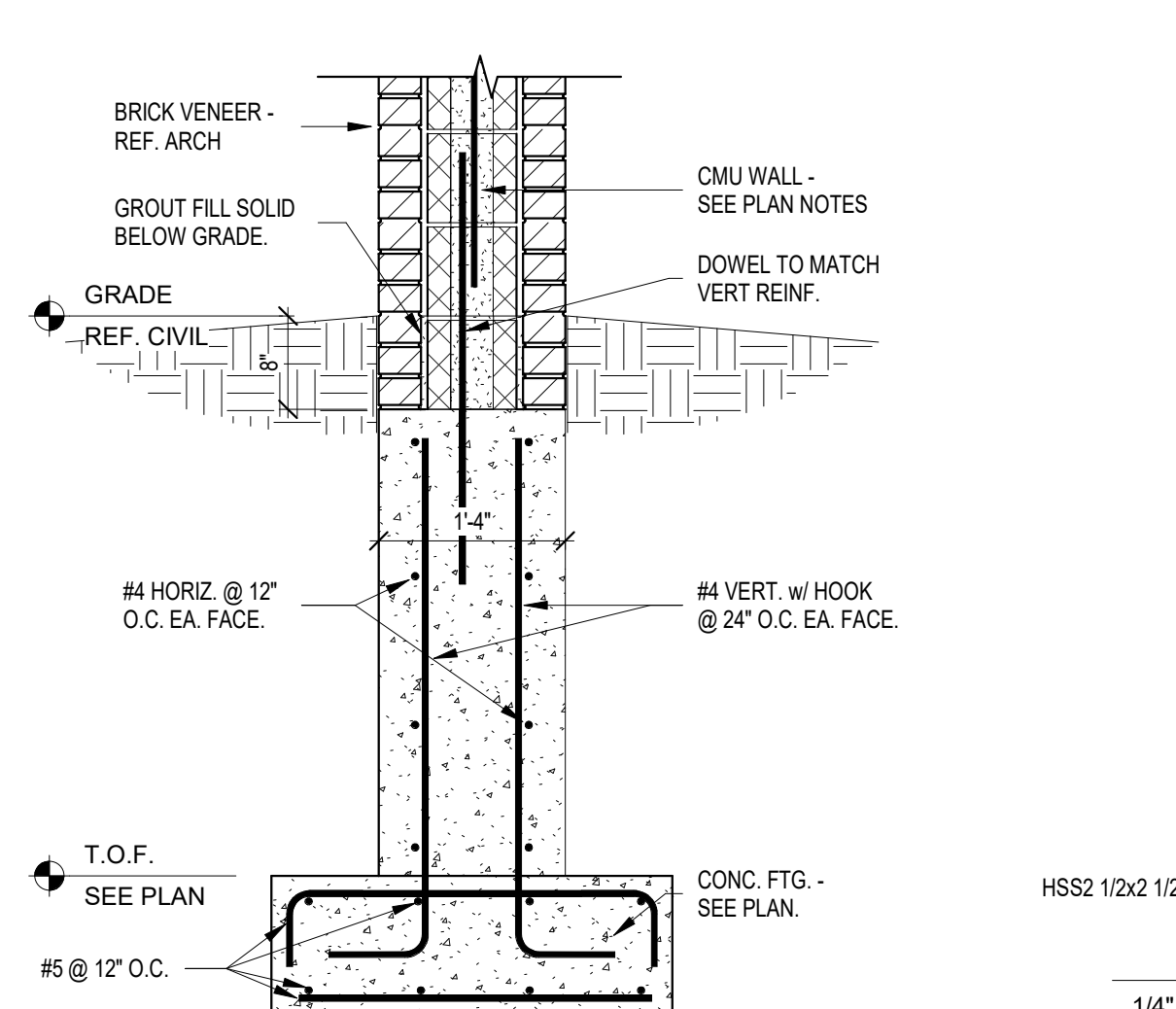
2 INT. ELEV. PIT SECTION 2  
3/4" = 1'-0"



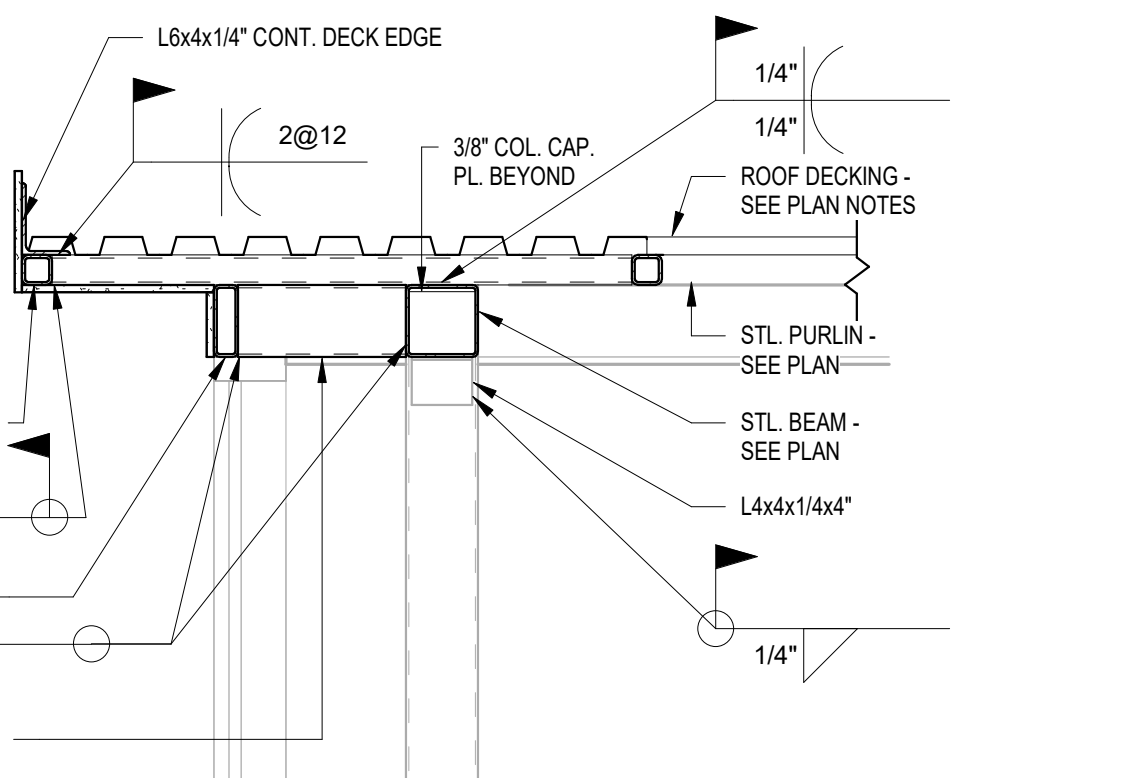
3 TYP. FOUND. SECTION @ EXISTING  
3/4" = 1'-0"



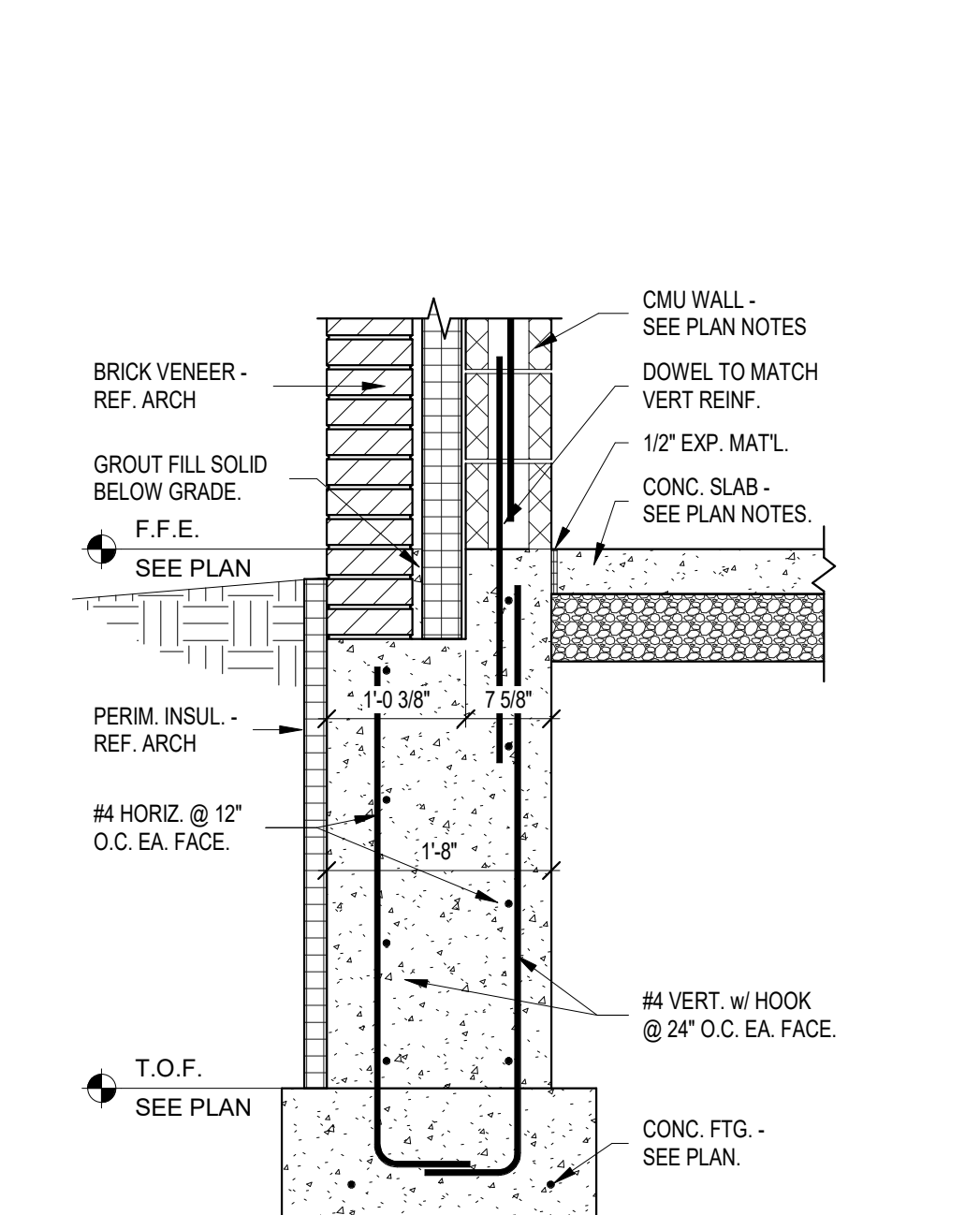
4 FOUND. WALL w/ BRICKLEDGE 1  
3/4" = 1'-0"



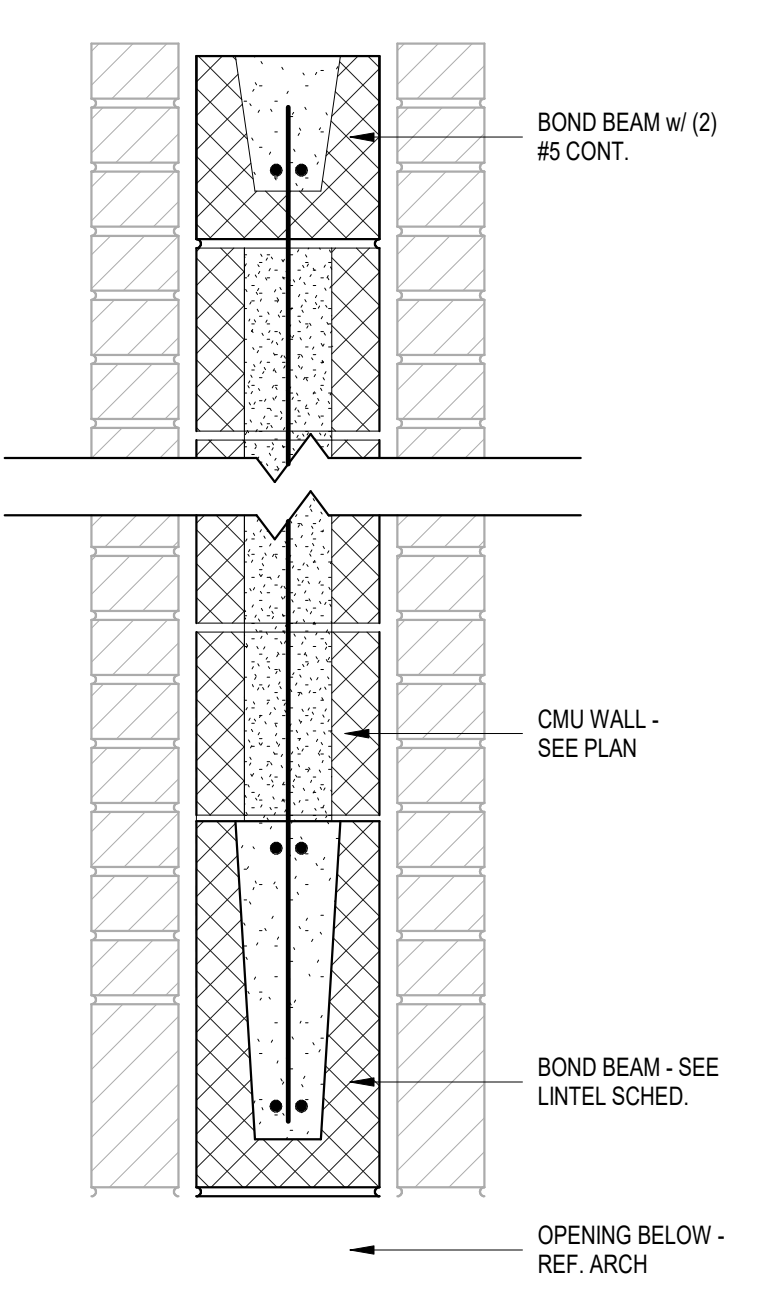
5 FOUND. WALL w/ BRICKLEDGE 2  
3/4" = 1'-0"



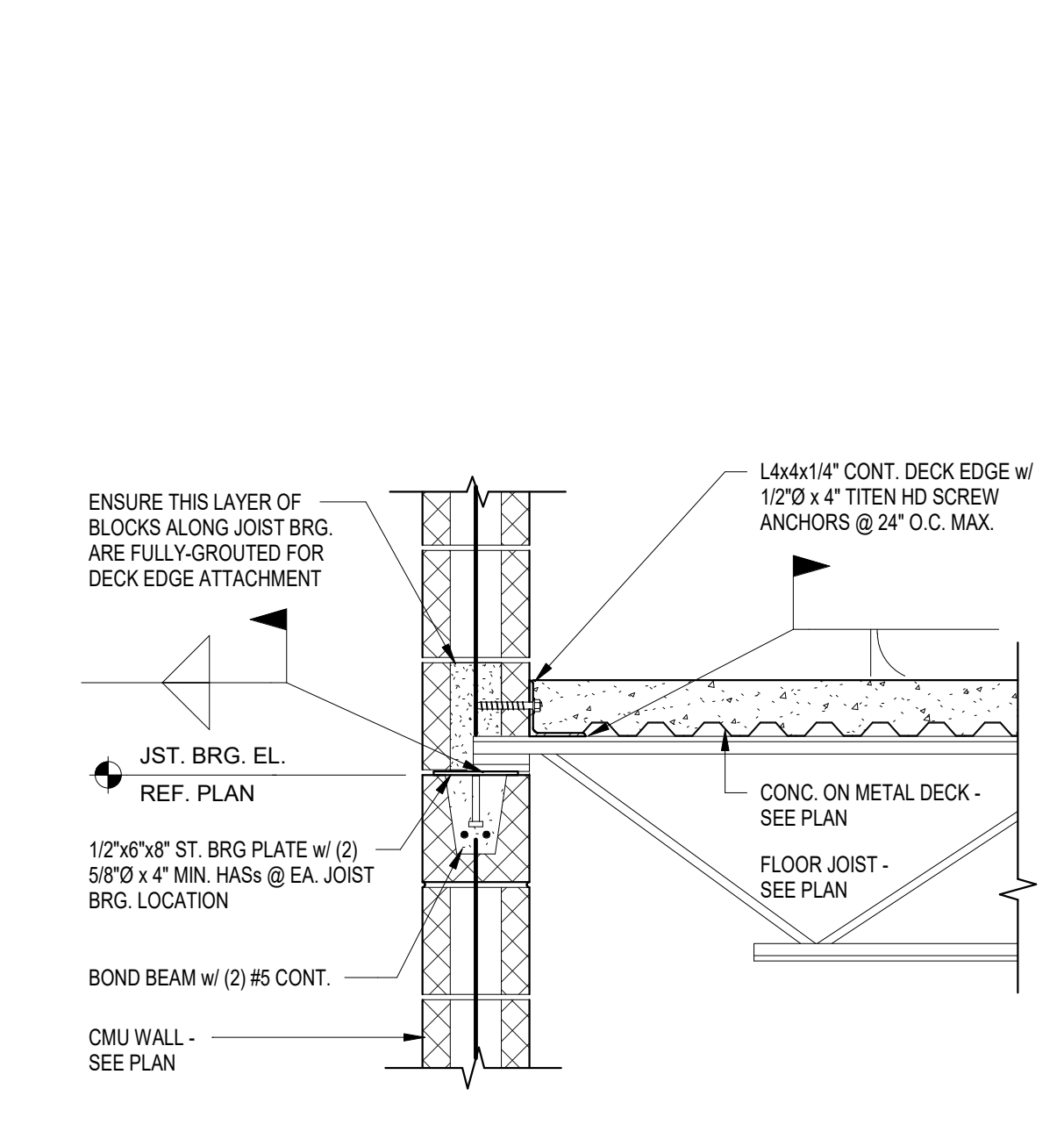
15 ELEVATOR ELEVATION 2  
3/4" = 1'-0"



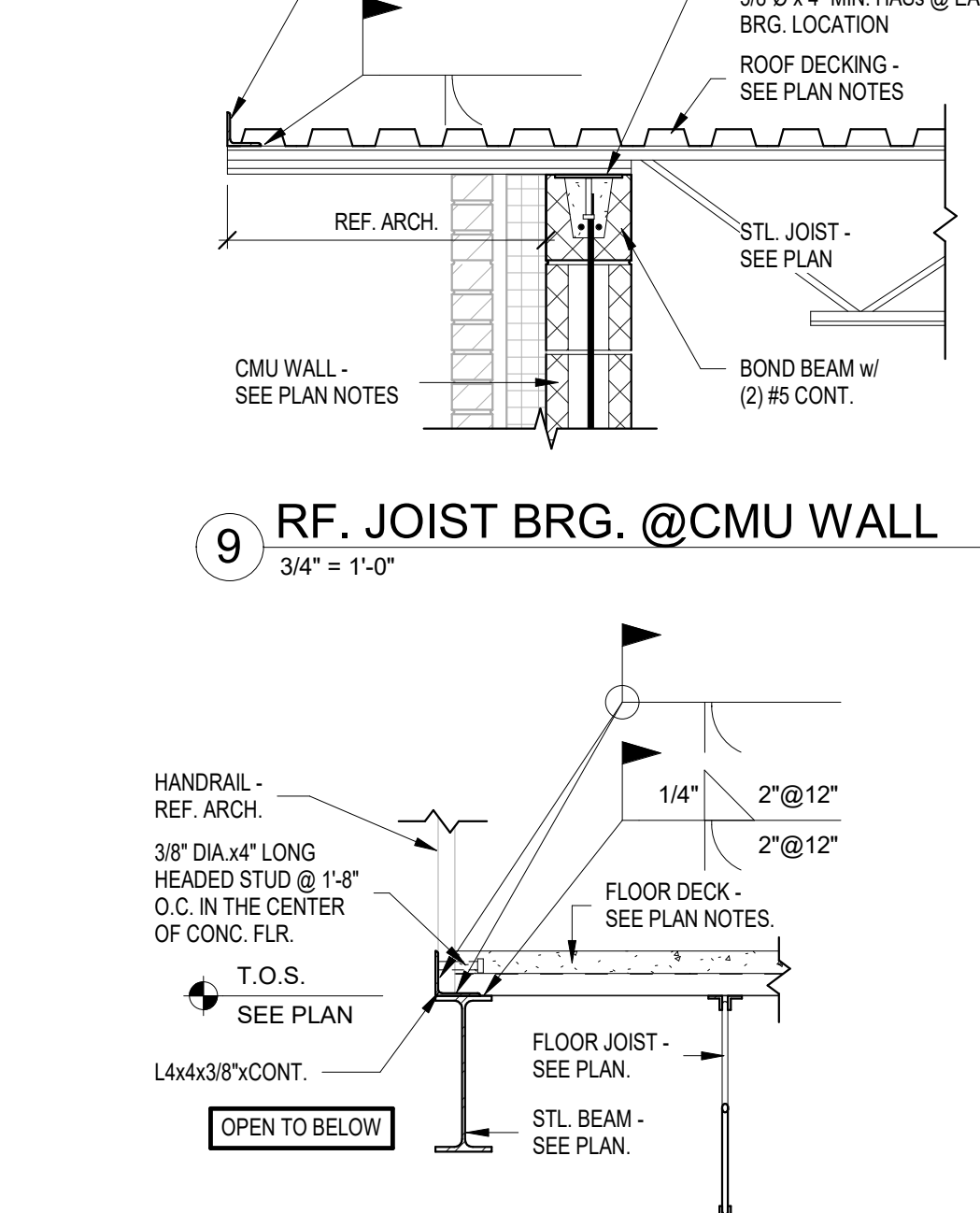
6 TYP. FOUND. WALL w/ BRICKLEDGE 3  
3/4" = 1'-0"



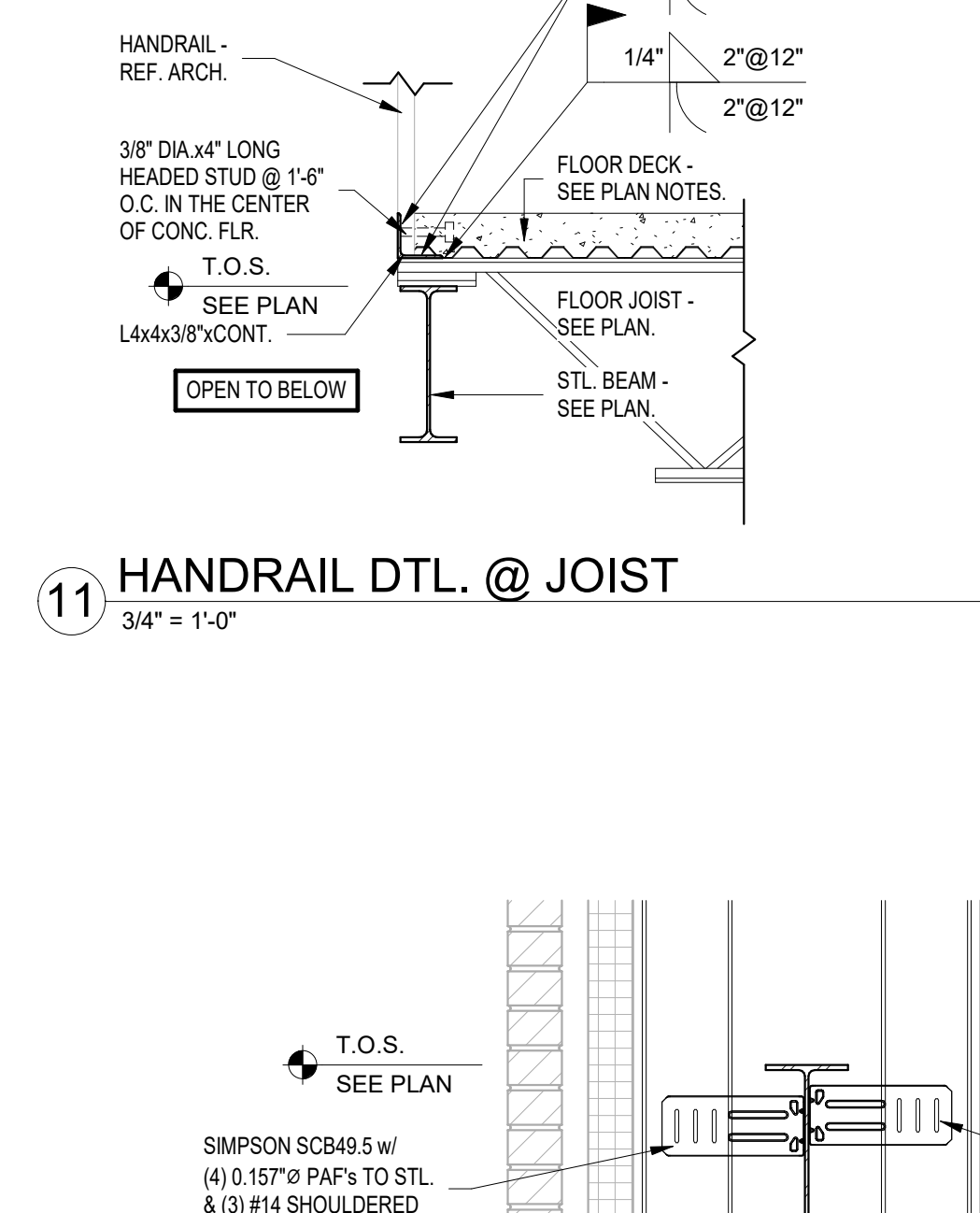
7 BOND BEAM @ ARCH.  
1 1/2" = 1'-0"



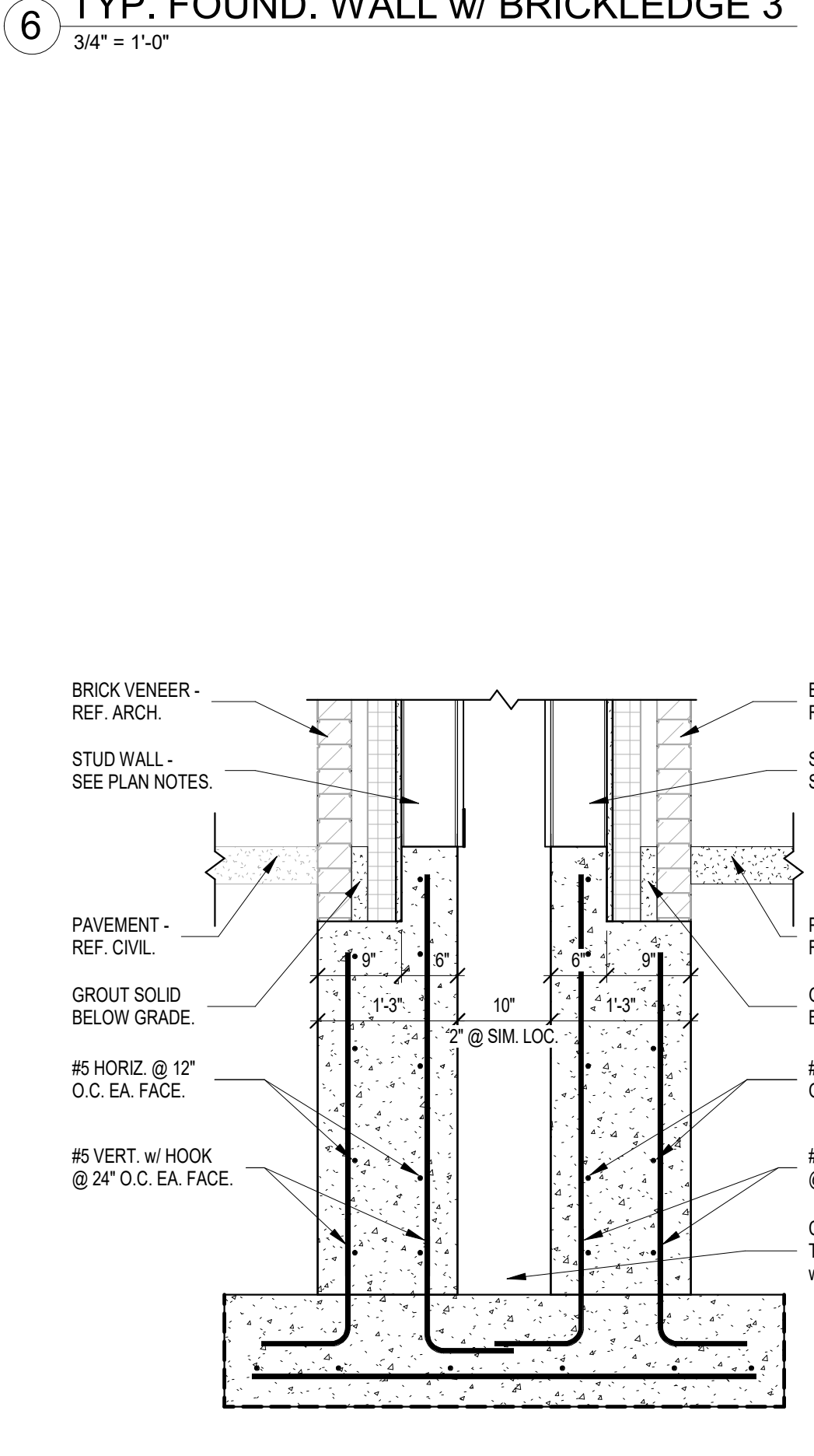
8 FLR. JOIST BRG. @ CMU WALL (END)  
1" = 1'-0"



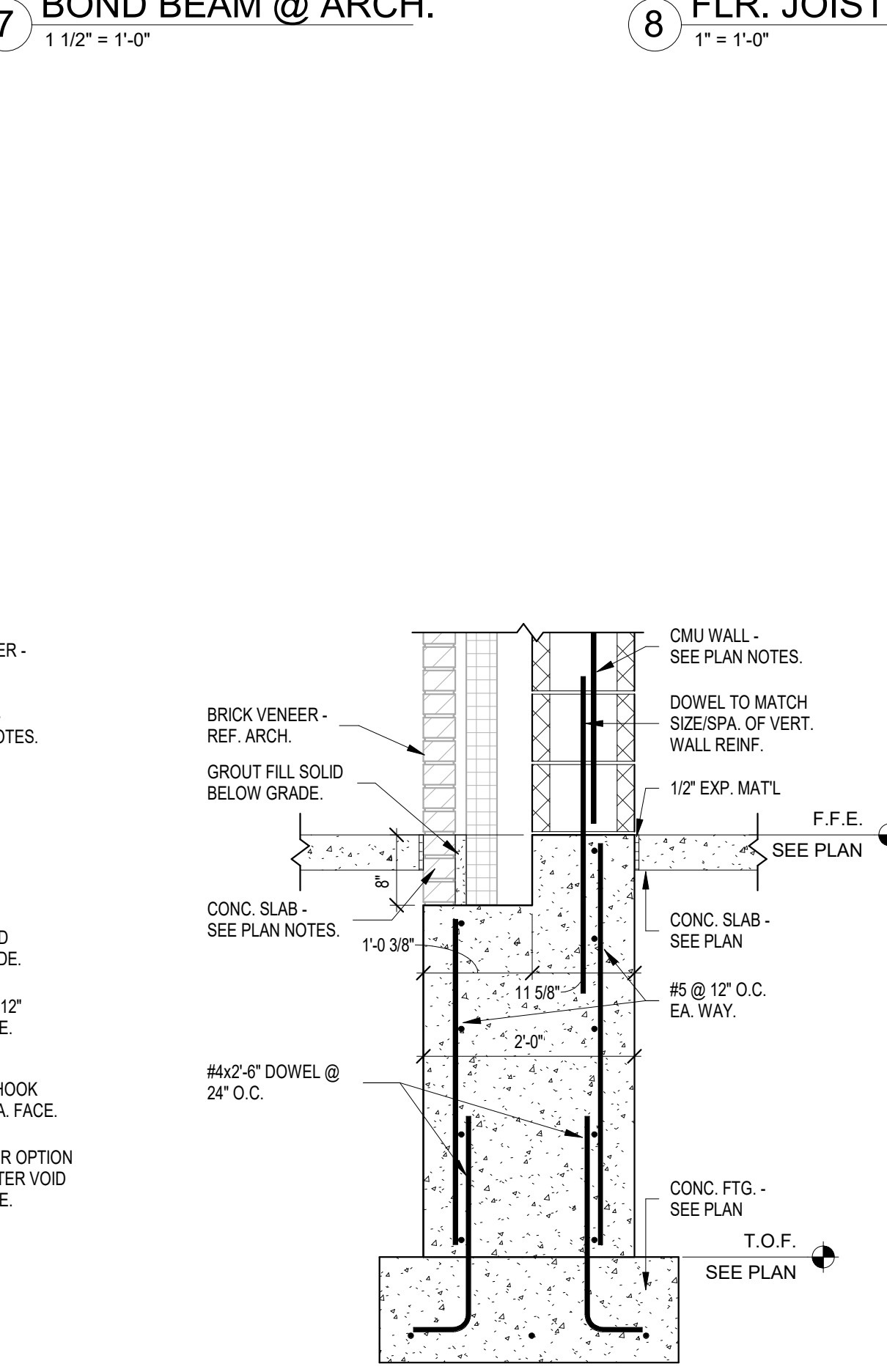
9 RF. JOIST BRG. @ CMU WALL  
3/4" = 1'-0"



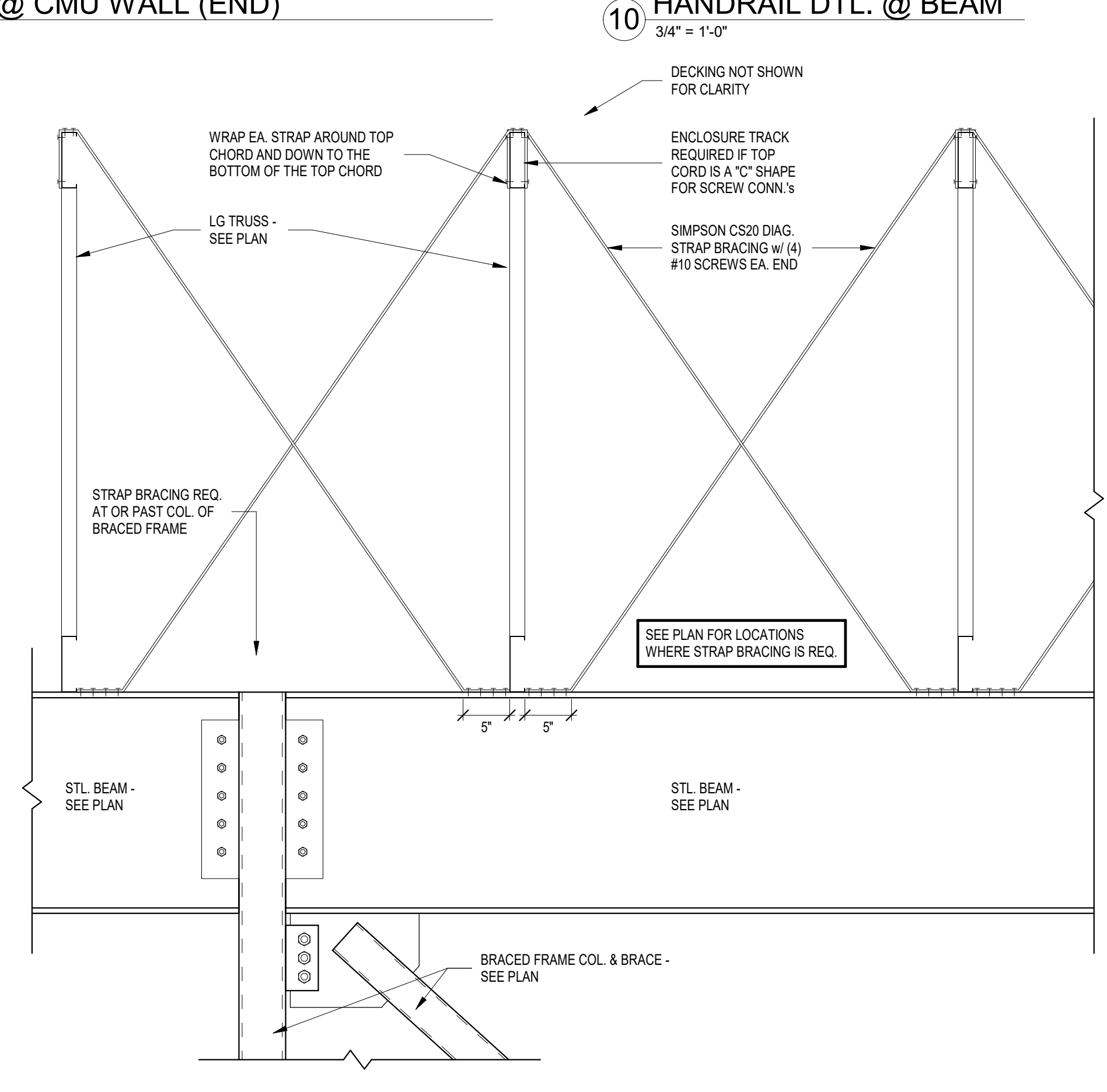
10 HANDRAIL DTL. @ JOIST  
3/4" = 1'-0"



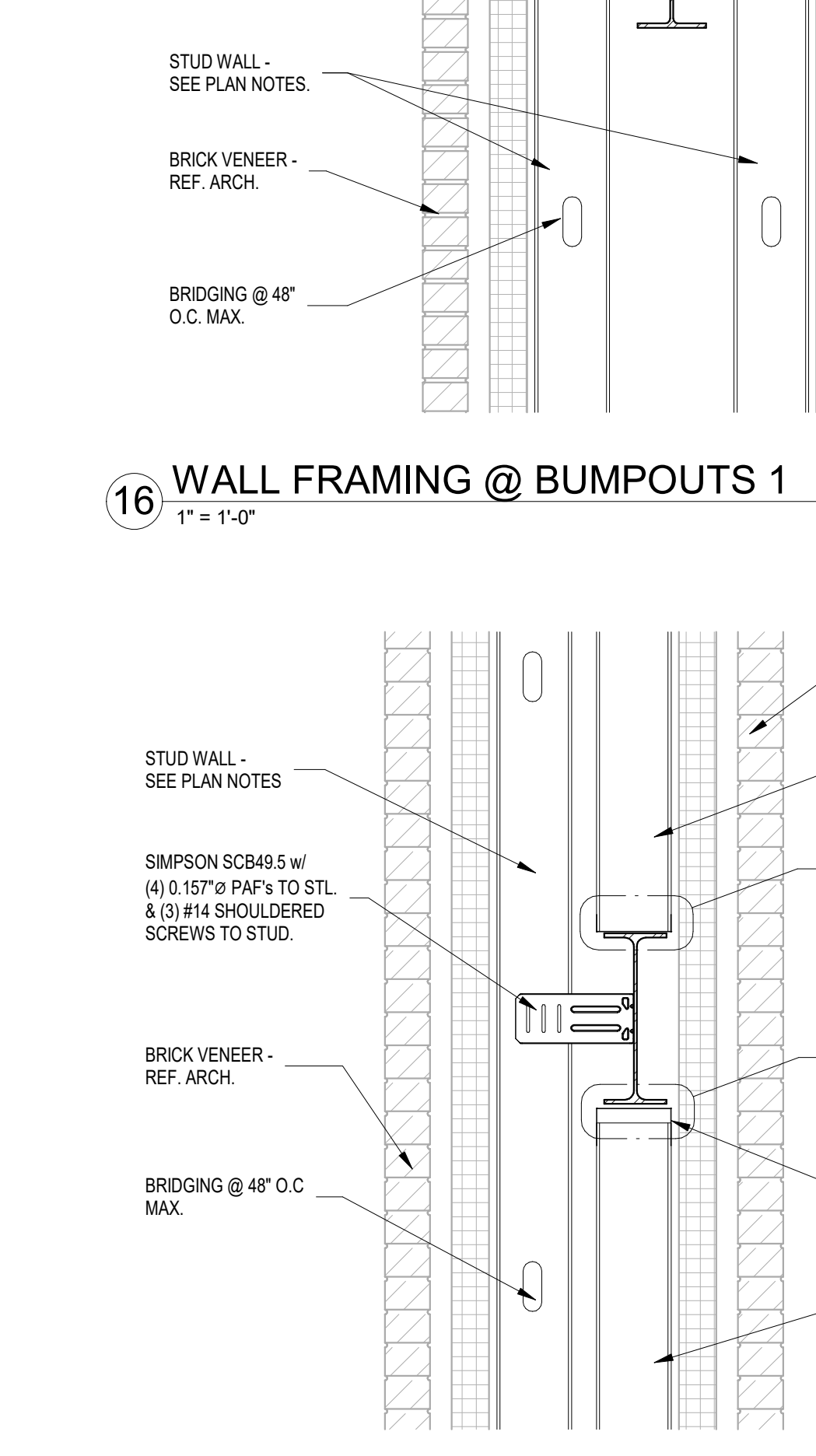
12 FOUND. @ DBL. WALL  
3/4" = 1'-0"



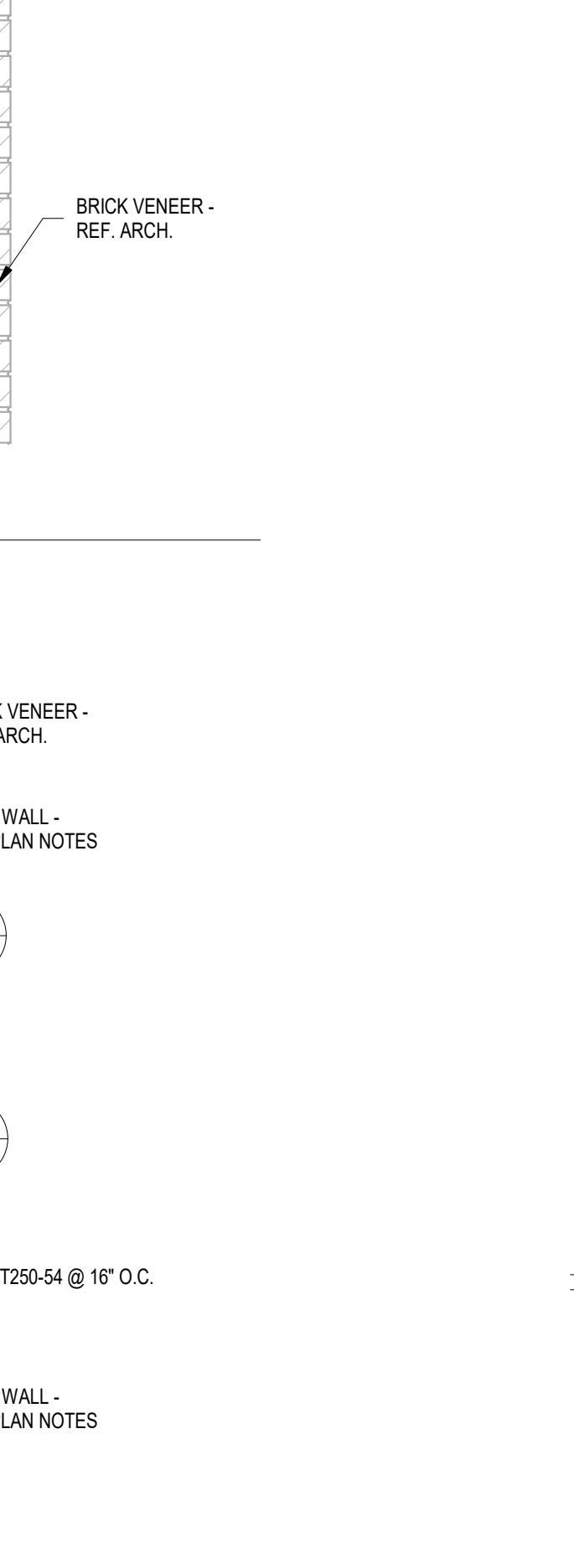
13 INT. ELEV. PIT SECTION 3  
3/4" = 1'-0"



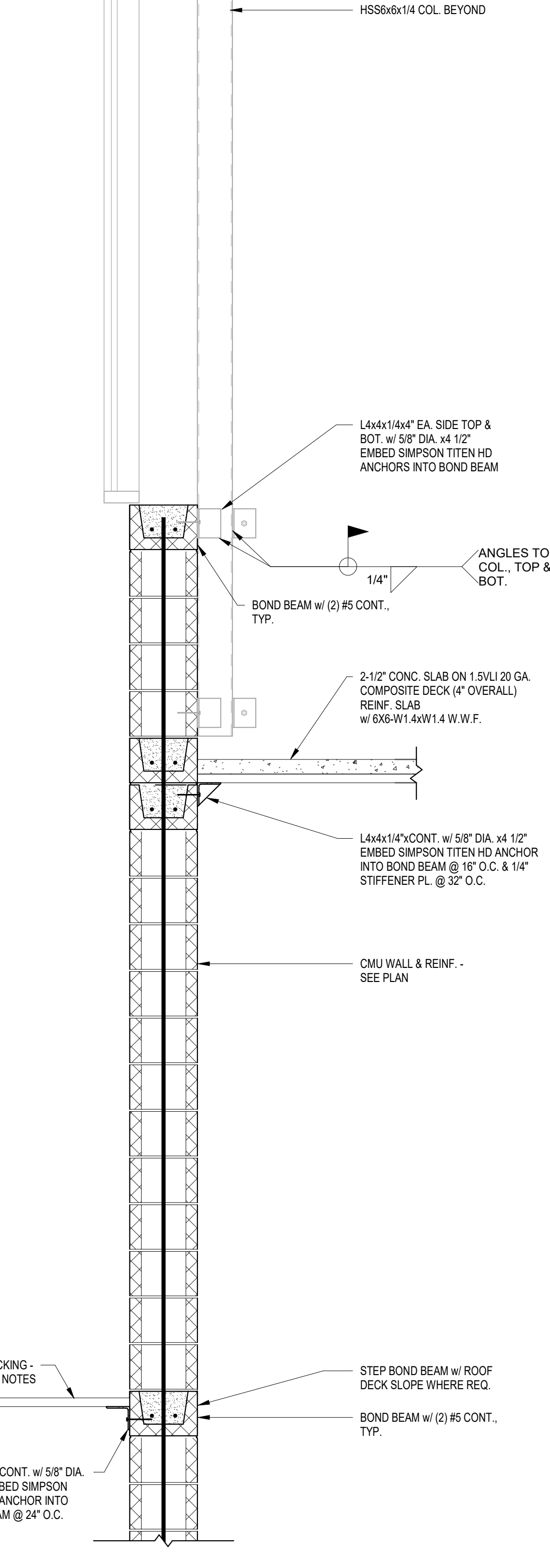
14 DIAG. STRAP BRACING OVER BRACED FRAME  
1" = 1'-0"



16 WALL FRAMING @ BUMPOUTS 1  
1" = 1'-0"



17 WALL FRAMING @ BUMPOUTS 2  
1" = 1'-0"



15 ELEVATOR ELEVATION 2  
3/4" = 1'-0"

**CO OP**  
**AndersonMasonDale Architects**

**Architect of Record**  
CO-OP Architecture  
1108 S Main Street Suite #102  
Aberdeen, SD 57401  
Telephone: 605-225-4852  
E-mail: tom@co-oparch.com

**Civil Engineer**  
Helms & Associates  
416 Production Street  
Aberdeen, SD 57401  
Telephone: 605-225-1212  
E-mail: lucas@helmsengineering.com

**Structural Engineer**  
Rise Structural Associates, Inc.  
6909 S. Lyncrest Place, Suite 110  
Sioux Falls, SD 57109  
Telephone: 605-225-1349  
E-mail: jchristensen@riseincorp.com

**Electrical Engineer**  
IMEG Corporation  
3314 Milwaukee Ave. NE  
Aberdeen, SD 57401  
Telephone: 605-225-1349  
E-mail: thomas.henz@imegcorp.com

**Structural Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: traviss@siceng.biz

**Mech & Plumbing Engineer**  
Sichmiller Engineering  
801 railroad Ave SE  
Aberdeen, South Dakota 57401  
Telephone: 605-225-1344  
E-mail: traviss@siceng.biz

**Associate Architect**  
AndersonMasonDale Architects, P.C.  
3198 Speer Boulevard  
Denver, CO 80211  
Telephone: 303-294-9448  
FAX: 303-294-0762  
E-mail: bblanchard@amdarchitects.com

**Landscape Architect**  
Confluence  
524 N Main Ave, Suite 201  
Sioux Falls, SD 57101  
Telephone: 605-229-1205  
E-mail: lputw@thinkconfluence.com

**Professional Engineer**  
Professional Engineer  
15041  
Jesse W. Montemah  
4/9/2024

Seal Issue Date  
100% CD 09 APRIL 2024

**LINCOLN HALL**  
12th Ave SE, Aberdeen, SD 57401  
21-261  
**Northern State University**  
1303 S Jay St  
Aberdeen, South Dakota 57401  
Telephone: 605-626-3011  
E-mail:

Project Number: 21-261  
Drawn By: CRC  
Reviewed By: JGM  
Approved By: JUC  
**STRUCTURAL DETAILS**  
**S610**