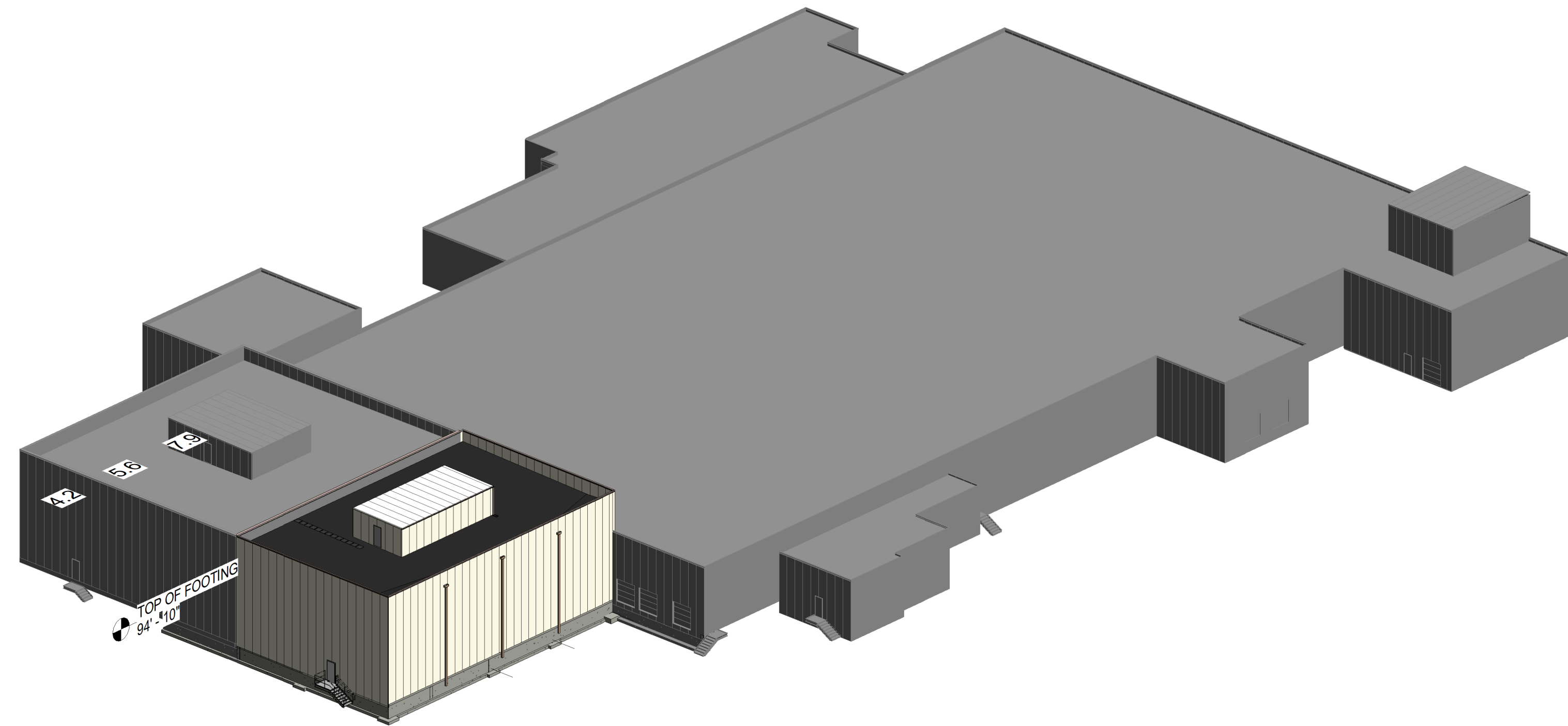


BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

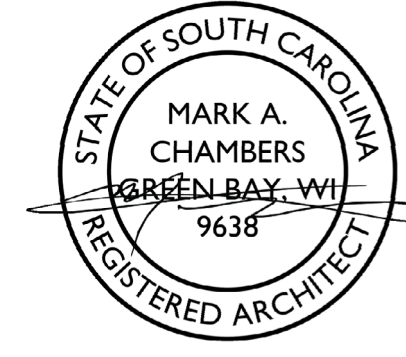
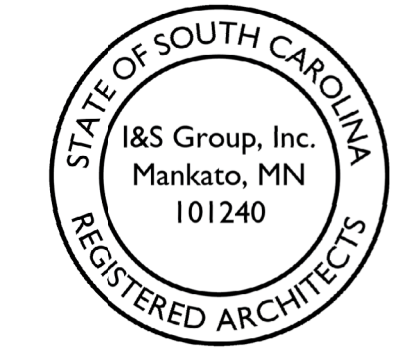
WEST COLUMBIA, SOUTH CAROLINA

ISG PROJECT # 22-26670



PROJECT GENERAL NOTES	
A.	ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL AND SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT / ENGINEER.
B.	CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK. CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND CORRELATING QUANTITIES AND DIMENSIONS.
C.	WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
D.	FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT / ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
E.	DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN, WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
F.	ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT / ENGINEER BEFORE PROCEEDING WITH THE WORK.
G.	LARGE-SCALE, MORE SPECIFIC DETAILS TAKE PRECEDENCE OVER SMALLER-SCALE, LESS SPECIFIC DETAILS AND INFORMATION. MORE STRINGENT REQUIREMENTS FOR CODE, PRODUCTS AND INSTALLATION TAKE PRECEDENCE OVER LESS STRINGENT REQUIREMENTS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
H.	PROVIDE CONTINUOUS SEALANT AROUND ALL MATERIALS AT ALL INTERIOR AND EXTERIOR WALL PENETRATIONS. REFER TO SPECIFICATIONS FOR APPROPRIATE SEALANT.
I.	ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
J.	SEAL ALL OPENINGS IN WALLS, FLOORS, CEILINGS, AND ROOFS, AROUND DUCTS, PIPES, VENTS, TRAPS, CONDUIT AND ALL OTHER PENETRATIONS WITH FIRE STOPPING AS SPECIFIED AND REQUIRED BY CODES. IF FIRE STOPPING IS NOT REQUIRED AT PENETRATIONS PER CODE, SEAL WITH CONTINUOUS SEALANT.
K.	PROVIDE TEMPORARY WALLS, ENCLOSURES, DUST SHIELDS AND WALK-OFF MATS AS REQUIRED TO SEPARATE DEMOLITION AND CONSTRUCTION FROM EXISTING BUILDING.
L.	PROVIDE BRACING AND SHORING AS REQUIRED TO PROTECT EXISTING STRUCTURE TO REMAIN. PROVIDE SECURE AND WEATHERPROOF ENCLOSURE OF TEMPORARY OPENINGS IN EXTERIOR WALLS. PROTECT ALL BUILDING COMPONENTS FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
M.	RESTORE ALL EXISTING AREAS AFFECTED BY DEMOLITION AND RELATED NEW CONSTRUCTION TO THEIR ORIGINAL CONDITION, INCLUDING BUT NOT LIMITED TO WALLS, FLOORS, AND CEILINGS AND THEIR ASSOCIATED FINISHES.
N.	PROVIDE SOLID WALL BACKING WITH METAL OR FIRE-RETARDANT WOOD BLOCKING BEHIND DOOR HARDWARE SUCH AS WALL STOPS, BUMPERS, HOLD OPENS, ETC. AND AT ALL ITEMS REQUIRING FASTENING THROUGH GYP BD. TO BLOCKING.
O.	RENDERED IMAGES MAY NOT BE AN ACCURATE REPRESENTATION OF BUILDING CONDITIONS, REFER TO PLANS AND DETAILS CONTAINED WITHIN FOR SCOPE OF WORK.

SHEET INDEX	
SHEET #	SHEET TITLE
GENERAL	
G1-10	TITLE SHEET, SHEET INDEX, PROJECT GENERAL NOTES
30x42	
G1-11	MOUNTING HEIGHTS, ABBREVIATIONS AND SYMBOLS
G1-21	CODE DATA AND CODE DATA PLAN
G1-31	OVERALL FACILITY PLAN
ARCHITECTURAL	
A1-01	WALL TYPES AND NOTES
A1-11	FIRST FLOOR DEMOLITION PLAN
A1-21	FIRST FLOOR PLAN
A1-71	ROOF PLAN
A2-11	EXTERIOR ELEVATIONS
A3-11	BUILDING SECTIONS
A3-21	WALL SECTIONS
A3-31	WALL DETAILS
A3-41	ROOF DETAILS
A4-11	DOOR SCHEDULE, DOOR AND FRAME TYPES
A7-11	ENLARGED VERTICAL CIRCULATION PLANS AND SECTIONS
STRUCTURAL	
S2-12	PIER AND FOUNDATION DETAILS
S1-00	STRUCTURAL NOTES
S1-01	SPECIAL INSPECTIONS (PER IBC 2018)
S1-05	STRUCTURAL SCHEDULES
S1-11	FOUNDATION PLAN
S1-21	DRAIN TILE PLAN
S1-31	SLAB PLAN
S2-11	FOUNDATION & SLAB DETAILS
S4-11	ROOF FRAMING PLAN
S4-12	PENTHOUSE FRAMING PLAN
S5-00	SHEAR WALL PLAN
S5-11	STRUCTURAL FRAMING ELEVATIONS
S6-11	FLOOR FRAMING DETAILS
S6-21	ROOF FRAMING DETAILS



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PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	PES / MCZ
DESIGNED BY	PES / MCZ
REVIEWED BY	MAC
ORIGINAL ISSUE DATE	MMDDYY
CLIENT PROJECT NO.	

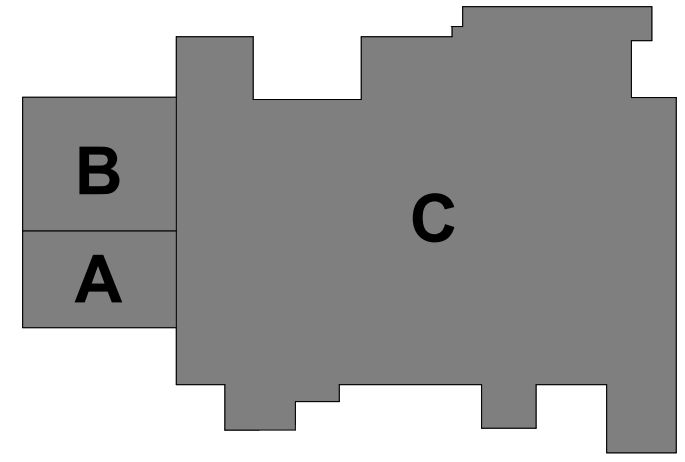
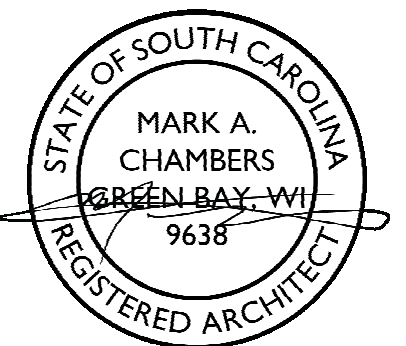
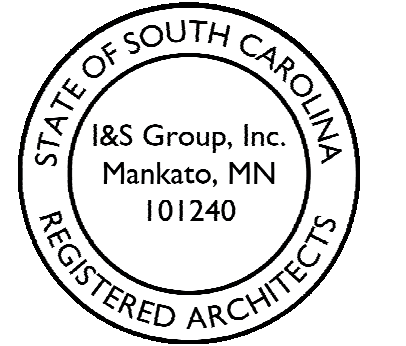
TITLE
TITLE SHEET, SHEET INDEX, PROJECT GENERAL NOTES

SHEET **G1-10**
30x42

PROJECT INDEX:

OWNER: CARGILL MEATS CONTACT NAME 1964 OLD DUNBAR RD WEST COLUMBIA, SC 29172 PHONE # FAX #	PROJECT ADDRESS: CARGILL MEATS 1964 OLD DUNBAR RD WEST COLUMBIA, SOUTH CAROLINA 29172	MANAGING OFFICE: LA CROSSE OFFICE 201 MAIN STREET SUITE 1020 LA CROSSE, WISCONSIN 54601 PHONE: 608.789.2034 PROJECT MANAGER: LANE PETERS EMAIL: LANE.PETERS@ISGINC.COM
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REFERENCE SCALE
1" = 1'
0 1/4" 1/2" 1" 2"



KEYPLAN

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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	Author
DESIGNED BY	Designer
REVIEWED BY	Checker
ORIGINAL ISSUE DATE	MM/DD/YY

CLIENT PROJECT NO.

TITLE

CODE DATA AND CODE DATA PLAN

SHEET **G1-21**

GENERAL CODE DATA

22 26670 - CARGILL COOLER EXPANSION - WEST COLUMBIA, SOUTH CAROLINA
GENERAL CODE DATA - PRELIMINARY - 2022-05-23

OWNER
 CARGILL MEATS
 1964 OLD DUNBAR RD
 WEST COLUMBIA, SOUTH CAROLINA

ARCHITECT
 ISG
 201 MAIN STREET SUITE 1020
 LA CROSSE, WI 54601

BUILDING LOCATION
 1964 OLD DUNBAR RD
 WEST COLUMBIA, SOUTH CAROLINA

BUILDING CODE
 2018 SOUTH CAROLINA BUILDING CODE (2018 IBC W/AMENDMENTS)
 2018 SOUTH CAROLINA FIRE CODE (2018 IFC W/AMENDMENTS)
 ENERGY CONSERVATION CODE 2009 OF SOUTH CAROLINA (AMENDS 2009 IECC)
 2018 SOUTH CAROLINA FUEL GAS CODE (2018 IFGC W/AMENDMENTS)
 2018 SOUTH CAROLINA MECHANICAL CODE (2018 IMC W/AMENDMENTS)
 2018 SOUTH CAROLINA PLUMBING CODE (2018 IPC W/AMENDMENTS)
 NATIONAL ELECTRICAL CODE 2017 OF SOUTH CAROLINA (ADOPTS NFPA 70 2017 W/AMENDMENTS)
 NATIONAL FIRE ALARM AND SIGNALING CODE 2016 OF SOUTH CAROLINA (NFPA 72, 2016)
 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS 2016 OF SOUTH CAROLINA (NFPA 13, 2016)

OCCUPANCY CLASSIFICATION AND USE
 STORAGE GROUP S-2 (EXISTING AND NEW HIGH PILE STORAGE / COMMODITY CLASS I)
 BUSINESS GROUP F (EXISTING)
 FACTORY GROUP F-2 (EXISTING)

SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE
 413 COMBUSTIBLE STORAGE (HIGH PILE STORAGE / COMMODITY CLASS I)

FIRE PROTECTION SYSTEMS
 FULLY SPRINKLERED THROUGHOUT EXISTING AND NEW (NFPA 13)
 CLASS 6A FIRE EXTINGUISHER (NFPA 10)

MIXED USE AND OCCUPANCY
 NONSEPARATED OCCUPANCIES

CONSTRUCTION TYPE
 TYPE IIB
 EXTERIOR NONBEARING WALLS (BASED ON FIRE SEPARATION DISTANCE); 0 HOUR RATED

BUILDING HEIGHT
 TABULAR ALLOWABLE HEIGHT: 4 STORIES / 75 FEET ABOVE GRADE PLANE
 ACTUAL HEIGHT (EXISTING): 1 STORY / 38'-6" FEET ABOVE GRADE PLANE
 ACTUAL HEIGHT (NEW): 1 STORY / 38'-6" FEET ABOVE GRADE PLANE

BUILDING AREA
 UNLIMITED AREA (60' CLEAR AREA AROUND PERIMETER OF BUILDING)

ACTUAL AREA
 FIRST FLOOR: (EXISTING)
 S-2 STORAGE LOW-HAZARD: 28,675 SF
 F-2 BUSINESS GROUP: 11,036 SF
 F-2 FACTORY INDUSTRIAL LOW-HAZARD: 62,370 SF
 FIRST FLOOR: (NEW)
 S-2 STORAGE LOW-HAZARD: 7,100 SF
 TOTAL ACTUAL AREA: 109,181 SF

OCCUPANT LOAD
 FIRST FLOOR
 ACCESSORY STORAGE / MECHANICAL: 7,100 SF / 300 GROSS = 24 OCCUPANTS (NEW)
 ACCESSORY STORAGE / MECHANICAL: 28,675 SF / 300 GROSS = 96 OCCUPANTS (EXISTING)
 BUSINESS: 11,036 SF / 150 GROSS = 74 OCCUPANTS (EXISTING)
 INDUSTRIAL USE: 62,370 SF / 100 GROSS = 624 OCCUPANTS (EXISTING)
 TOTAL FIRST FLOOR: 818 OCCUPANTS

MEANS OF EGRESS
 MINIMUM NUMBER OF EXITS REQUIRED
 FIRST FLOOR: 4 REQUIRED
 ACTUAL NUMBER OF EXITS
 FIRST FLOOR: 20 PROVIDED
 MINIMUM EGRESS WIDTH REQUIRED
 FIRST FLOOR
 STAIRWAYS: (818 OCCUPANTS)(0.30) = 245.4 INCHES
 OTHER EGRESS COMPONENTS: (818 OCCUPANTS)(0.20) = 163.6 INCHES
 ACTUAL EGRESS WIDTH
 FIRST FLOOR
 STAIRWAYS: 384 INCHES
 OTHER EGRESS COMPONENTS: 640 INCHES
 COMMON PATH OF EGRESS TRAVEL: (F-2 / S-2) = 100 FEET MAXIMUM
 EXIT ACCESS TRAVEL DISTANCE: (F-2 / S-2) = 400 FEET MAXIMUM
 ACCESSIBLE MEANS OF EGRESS PER FLOOR: 2 REQUIRED / 2 PROVIDED (APPLICABLE TO EXISTING BUSINESS OCCUPANCY ONLY)

PLUMBING FIXTURES REQUIRED
 FIRST FLOOR
 TOTAL PLUMBING FIXTURES REQUIRED
 STORAGE (EXISTING & NEW)
 119 / 2 = 59.5 (1) MEN AND 59.5 WOMEN
 59.6 / 100 = 1.01 (2) WATER CLOSETS FOR MEN
 59.6 / 100 = 1.01 (2) WATER CLOSETS FOR WOMEN
 59.6 / 100 = 1.01 (2) LAVATORIES FOR MEN
 59.6 / 100 = 1.01 (2) LAVATORIES FOR WOMEN
 119 / 1,000 = .12 (1) DRINKING FOUNTAINS
 1 SERVICE SINK
 BUSINESS (EXISTING)
 74 / 2 = 37 MEN AND 37 WOMEN
 37 / 1 PER 25 FIRST 50 THEN 1 PER 50 = 1.74 (2) WATER CLOSETS FOR MEN
 37 / 1 PER 25 FIRST 50 THEN 1 PER 50 = 1.74 (2) WATER CLOSETS FOR WOMEN
 37 / 1 PER 40 FIRST 80 THEN 1 PER 80 = 1.46 (2) LAVATORIES FOR MEN
 37 / 1 PER 40 FIRST 80 THEN 1 PER 80 = 1.46 (2) LAVATORIES FOR WOMEN
 74 / 100 = .74 (1) DRINKING FOUNTAINS
 1 SERVICE SINK
 FACTORY AND INDUSTRIAL (EXISTING)
 624 / 2 = 312 MEN AND 312 WOMEN
 312 / 100 = 3.12 (4) WATER CLOSETS FOR MEN
 312 / 100 = 3.12 (4) WATER CLOSETS FOR WOMEN
 312 / 100 = 3.12 (4) LAVATORIES FOR MEN
 312 / 100 = 3.12 (4) LAVATORIES FOR WOMEN
 624 / 400 = 1.56 (2) DRINKING FOUNTAINS
 1 SERVICE SINK
 TOTAL PLUMBING FIXTURES REQUIRED
 5.87 (6) WATER CLOSETS FOR MEN
 5.87 (6) WATER CLOSETS FOR WOMEN
 5.59 (6) LAVATORIES FOR MEN
 5.59 (6) LAVATORIES FOR WOMEN
 2.42 (3) ACCESSIBLE DRINKING FOUNTAINS (HIGH AND LOW SPOUT HEIGHT)
 3 SERVICE SINKS
 TOTAL PLUMBING FIXTURES PROVIDED (EXISTING)
 8 WATER CLOSETS AND 5 URINALS FOR MEN
 9 WATER CLOSETS FOR WOMEN
 9 LAVATORIES FOR MEN
 9 LAVATORIES FOR WOMEN
 4 UNISEX TOILET ROOMS, WITH 1 WATER CLOSET AND 1 LAVATORY EACH

CODE DATA PLAN KEY

- EXIT
- FIRE EXTINGUISHER

FIRE SUPPRESSION NOTES
(NEW SPRINKLER SYSTEM)

THROUGHOUT AREA OF WORK, PROVIDE A NEW NFPA 13 FIRE SUPPRESSION (SPRINKLER) SYSTEM. THE LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER / INSTALLER SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BID. THE NFPA 13 SPRINKLER SYSTEM SHALL BE DESIGNED, INSTALLED, AND TESTED BY A LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER / INSTALLER AND SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. THE LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER SHALL PROVIDE AUTOMATIC SPRINKLER SYSTEM DESIGN DOCUMENTS AND SHALL SUBMIT THEM TO ALL APPLICABLE JURISDICTIONS AND AUTHORITIES AND SHALL PROCURE ALL NECESSARY PERMITS. SPRINKLER DESIGNER / INSTALLER SHALL PAY ALL NECESSARY PERMITTING FEES.

DESIGN OF NEW NFPA 13 SPRINKLER SYSTEM SHALL BE BASED ON, BUT NOT LIMITED TO THE FOLLOWING CRITERIA:

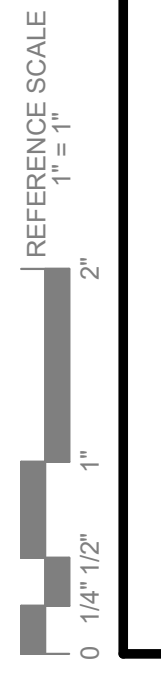
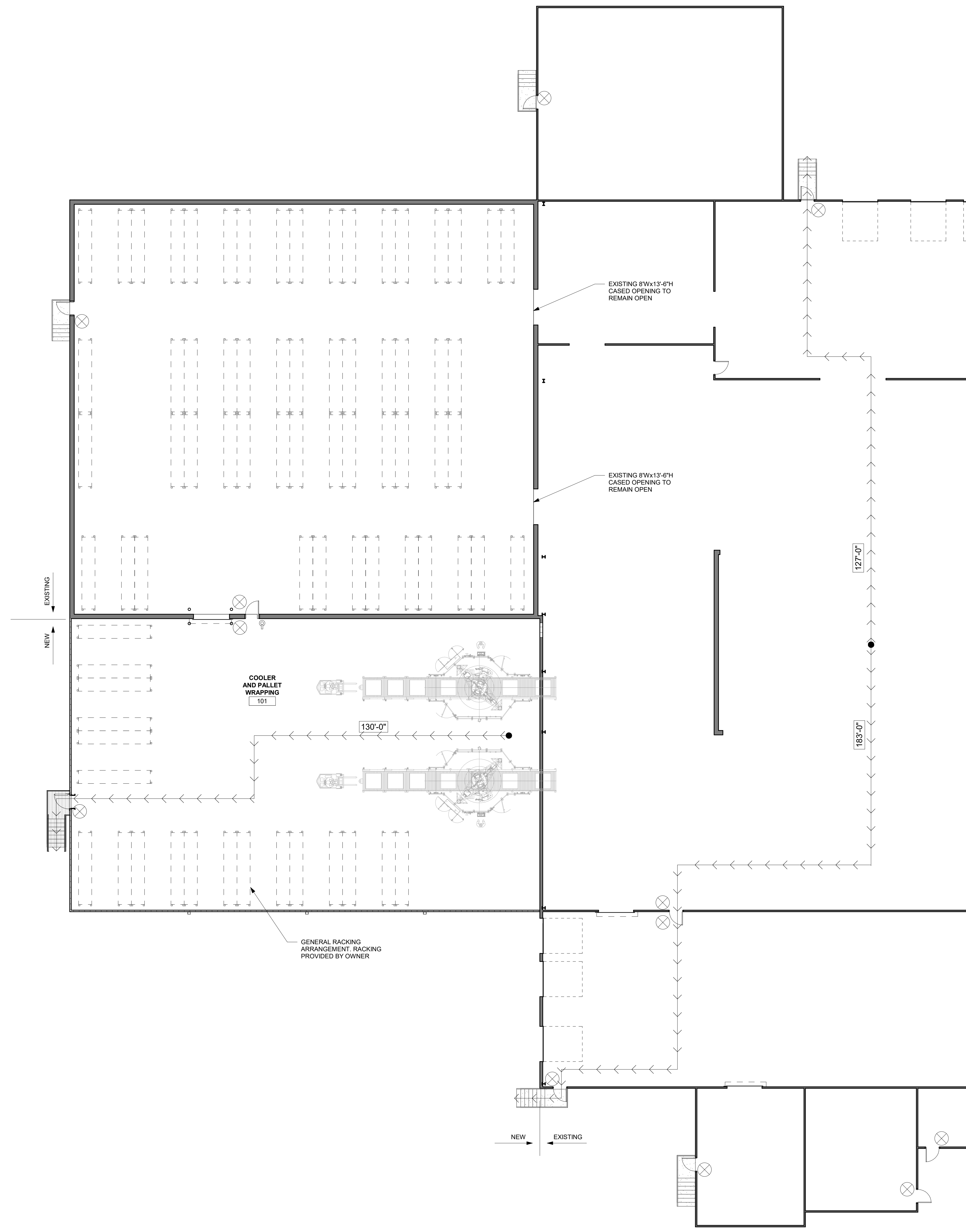
1. COMPLY WITH NFPA 13 AND ALL OTHER APPLICABLE CODES.
2. DESIGN SPRINKLER HEAD LAYOUT TO PROVIDE ADEQUATE COVERAGE PER CODE REQUIREMENTS.
3. DESIGN SPRINKLER HEAD AND PIPING LAYOUT INCLUDING ALL DROPS, ARM-OVERS AND MAIN PIPES TO AVOID DIFFUSERS, LIGHT FIXTURES, MECHANICAL WORK, PLUMBING WORK, ELECTRICAL WORK, NEW CONSTRUCTION WORK AND ALL OTHER WORK AND COMPONENTS IN THE CONTRACT.
4. PROVIDE PROPER COVERAGE IN CONCEALED SPACES AS REQUIRED PER CODE.
5. ALL SPRINKLER PIPING AND COMPONENTS SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN WALLS.
6. ALL SPRINKLER HEADS TO BE INSTALLED IN ACOUSTICAL CEILING TILE SHALL BE INSTALLED IN CENTER OF TILE.

FIRE SUPPRESSION NOTES
(MODIFIED OR ADDITION TO EXISTING SPRINKLER SYSTEM)

THROUGHOUT AREA OF WORK, MODIFY EXISTING AND / OR PROVIDE A NEW NFPA 13 FIRE SUPPRESSION (SPRINKLER) SYSTEM. THE LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER / INSTALLER SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO BID. THE NFPA 13 SPRINKLER SYSTEM SHALL BE DESIGNED, INSTALLED, MODIFIED AND TESTED BY A LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER / INSTALLER AND SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. THE LICENSED AUTOMATIC SPRINKLER SYSTEM DESIGNER SHALL PROVIDE AUTOMATIC SPRINKLER SYSTEM DESIGN DOCUMENTS AND SHALL SUBMIT THEM TO ALL APPLICABLE JURISDICTIONS AND AUTHORITIES AND SHALL PROCURE ALL NECESSARY PERMITS. SPRINKLER DESIGNER / INSTALLER SHALL PAY ALL NECESSARY PERMITTING FEES.

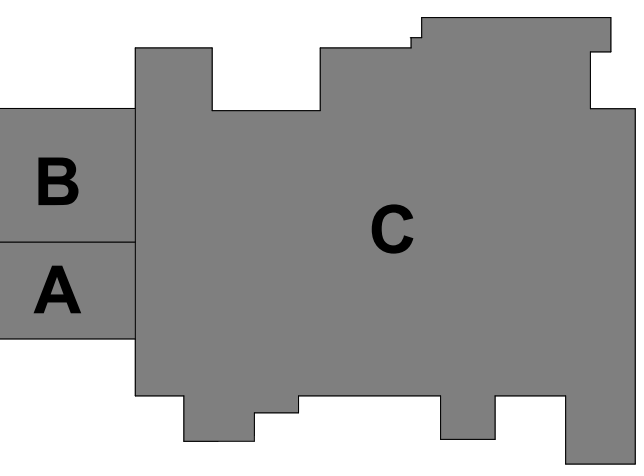
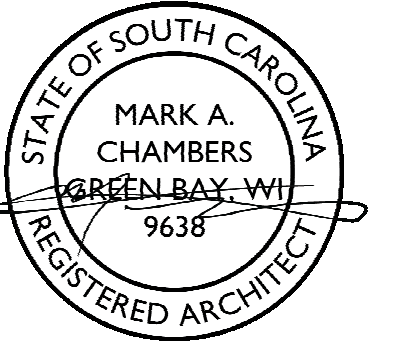
DESIGN OF NEW / MODIFIED NFPA 13 SPRINKLER SYSTEM SHALL BE BASED ON, BUT NOT LIMITED TO THE FOLLOWING CRITERIA:

1. COMPLY WITH NFPA 13 AND ALL OTHER APPLICABLE CODES.
2. MODIFY EXISTING SPRINKLER HEAD LAYOUT TO PROVIDE ADEQUATE COVERAGE PER CODE REQUIREMENTS.
3. MODIFY EXISTING SPRINKLER HEAD AND PIPING LAYOUT INCLUDING ALL DROPS, ARM-OVERS AND MAIN PIPES TO AVOID RELOCATED DIFFUSERS, LIGHT FIXTURES, MECHANICAL WORK, PLUMBING WORK, ELECTRICAL WORK, DEMOLITION WORK, NEW CONSTRUCTION WORK AND ALL OTHER WORK AND COMPONENTS IN THE CONTRACT.
4. PROVIDE PROPER COVERAGE IN CONCEALED SPACES AS REQUIRED PER CODE.
5. WHERE INSTALLING NEW WORK ADJACENT TO EXISTING, MATCH NEW COMPONENTS TO EXISTING COMPONENTS WITHIN CODE LIMITATIONS.
6. ALL NEW AND RELOCATED SPRINKLER PIPING AND COMPONENTS SHALL BE CONCEALED ABOVE CEILINGS AND WITHIN WALLS.



1 CODE DATA PLAN - COOLER ADDITION
 3/32" = 1'-0"

ISG



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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

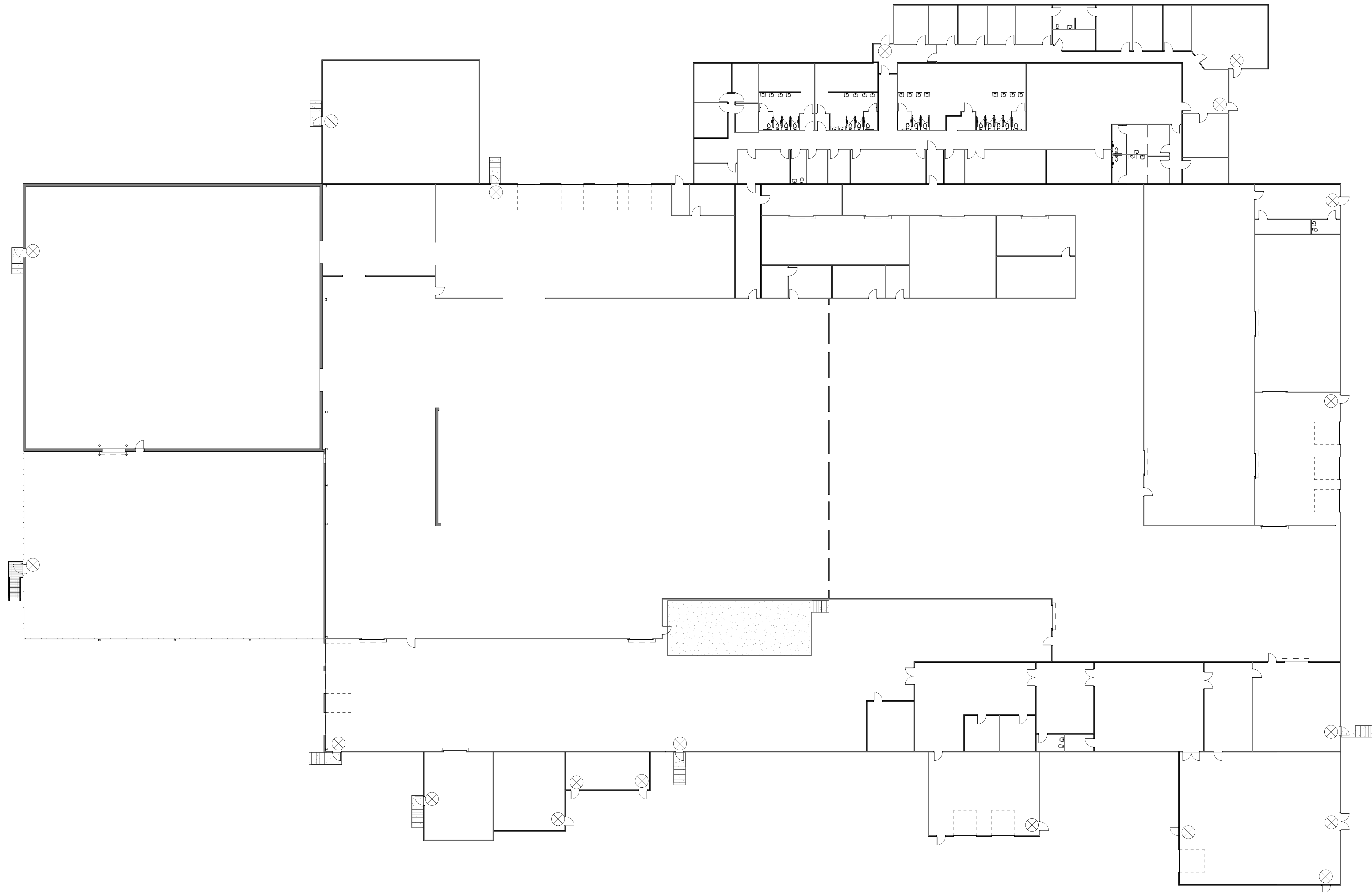
REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	Author
DESIGNED BY	Designer
REVIEWED BY	Checker
ORIGINAL ISSUE DATE	MM/DD/YY
CLIENT PROJECT NO.	

TITLE

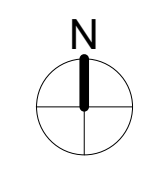
OVERALL FACILITY PLAN

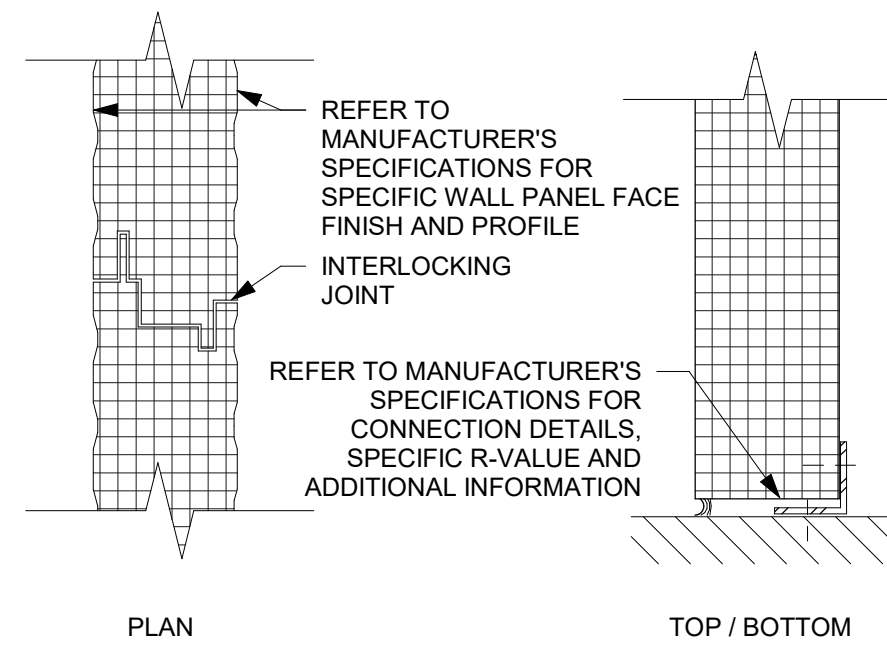
SHEET
G1-31



1 OVERALL FACILITY PLAN
1/16" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"





WALL TYPE	PANEL THICKNESS	PANEL WIDTH	APPROXIMATE R-VALUE	WALL PANEL ORIENTATION	KEY NOTES
< Q4 >	4"	42"	35	VERTICAL	

NOTES:
A. FINISH: G-90 GALVANIZED STEEL FOR INTERIOR AND EXTERIOR FACE.

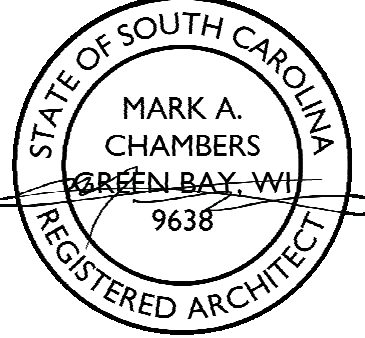
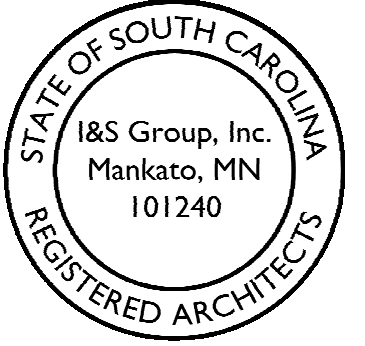
1 WALL TYPE Q (INSULATED METAL PANEL)
3" = 1'-0"

WALL ASSEMBLY KEY NOTES:

1. PROVIDE 1" GAP FOR DEFLECTION ALLOWANCE BETWEEN WALL FINISH / SUBSTRATE AND STRUCTURE ABOVE. TYPICAL UNLESS NOTED OTHERWISE ON STRUCTURAL DOCUMENTS.

GENERAL WALL ASSEMBLY NOTES:

- NOT ALL WALL TYPES LISTED APPLY TO THIS PROJECT. REFER TO FLOOR PLAN FOR LOCATIONS AND ADDITIONAL NOTES.
- LIGHT GAUGE STEEL FRAMING MEMBER DESIGNATION SYSTEM: (REFER TO STRUCTURAL NOTES)
 - 600S125-54 (EQUIVALENT TO 6" x 16 GAUGE STUD OR JOIST WITH 1 1/4" FLANGES)
 - MINIMUM BASE METAL THICKNESS IN MILS. EXAMPLE - .054 = 54 MILS)
 - 18 = 25 GAUGE
 - 27 = 22 GAUGE
 - 30 = 20 GAUGE (DRYWALL)
 - 33 = 20 GAUGE (STRUCTURAL)
 - 43 = 18 GAUGE
 - 54 = 16 GAUGE
 - 68 = 14 GAUGE
 - 97 = 12 GAUGE
 - FLANGE WIDTH (1/100 INCHES): EXAMPLE - 125 = 1.25"
 - STYLE: S = STUD OR JOIST SECTION (WITH FLANGE STIFFENERS) = []
 T = TRACK SECTION = []
 U = CHANNEL SECTION (STUDS WITHOUT FLANGE STIFFENERS) = []
 F = FURRING CHANNEL = []
 Z = ZEE SECTION = []
 - MEMBER DEPTH (1/100 INCHES): EXAMPLE - 600 = 6"
- ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS (BY OTHERS) FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
- PROVIDE FIRE-TREATED WOOD OR STEEL BACKING FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS.
- REFER TO STRUCTURAL DOCUMENTS FOR SHEAR WALL CRITERIA.



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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

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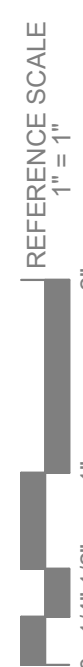
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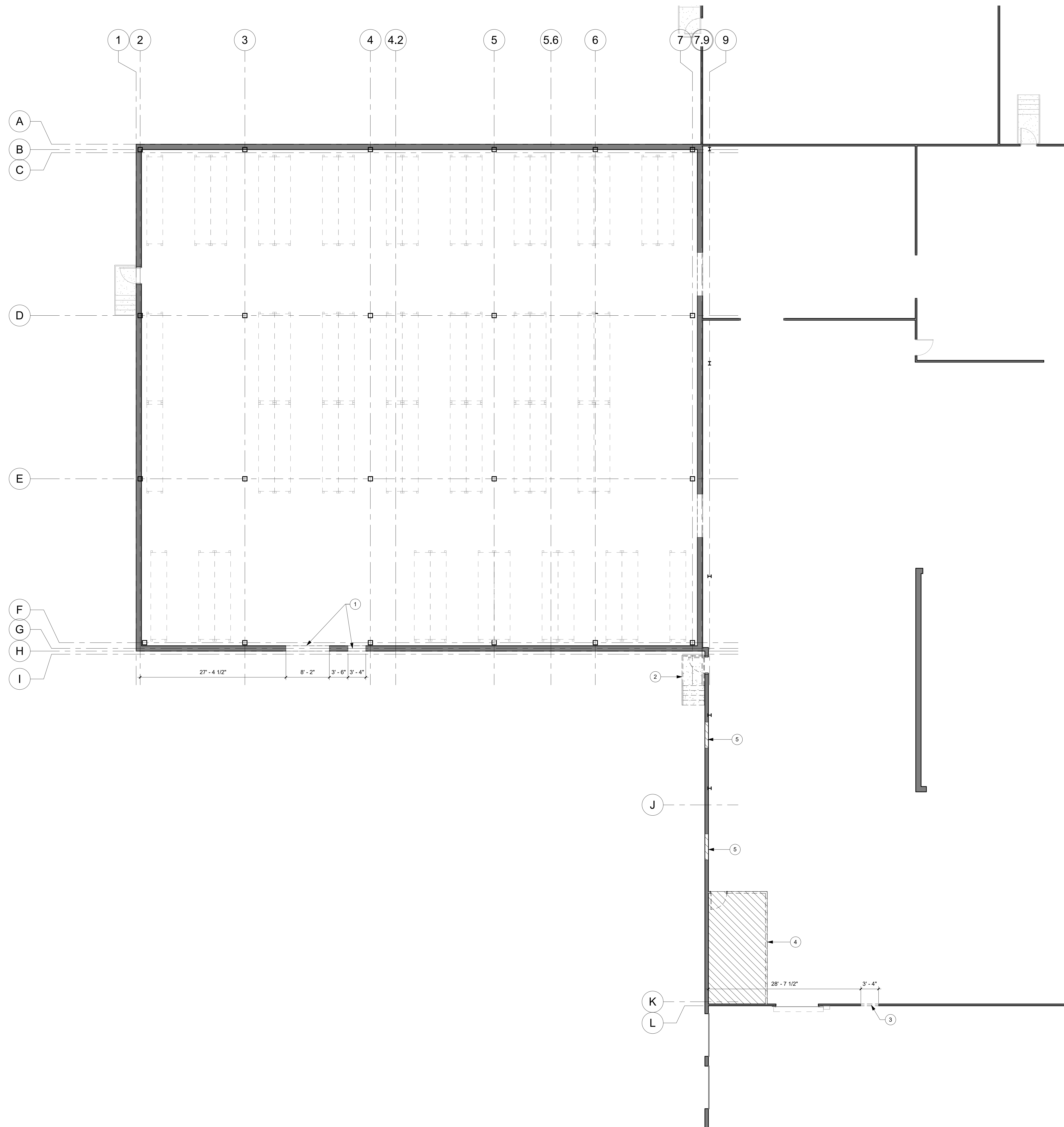
TITLE

WALL TYPES AND NOTES

SHEET

A1-01





WALL LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- DEMOLITION

FLOORING & SLAB LEGEND

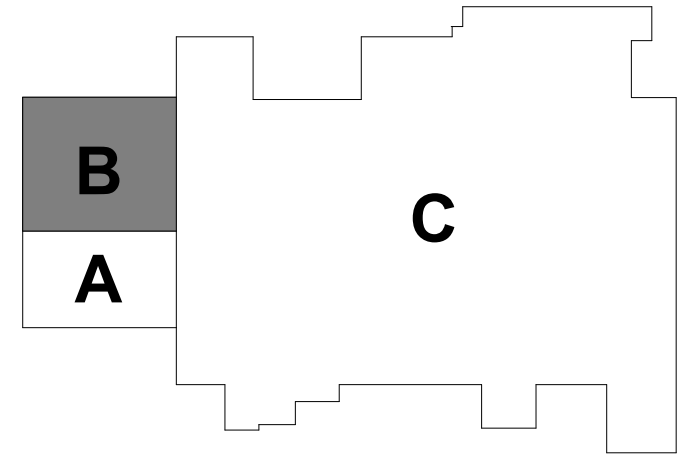
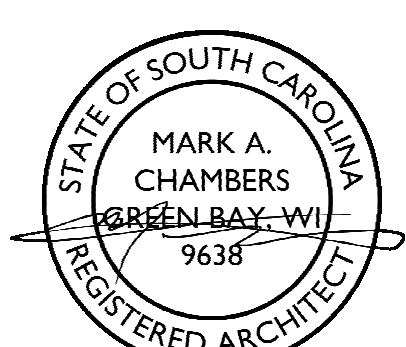
- FOR ENTIRE ROOM SPACE IN SHADED AREA, REMOVE EXISTING FLOOR COVERING, WALL BASE & ASSOCIATED ITEMS. PREP SUB-SURFACE FOR NEW FINISHES. REFER TO SPEC FOR PREPARATION OF CONCRETE SLAB SUBSTRATE.

KEYNOTE LEGEND

- 1 REMOVE PORTIONS OF EXISTING COOLER WALL FOR NEW DOOR. REFER TO DOOR SCHEDULE FOR OPENING REQUIREMENTS.
- 2 REMOVE EXISTING DOOR AND STAIR AND RELATED COMPONENTS. REFER TO ARCHITECTURAL PLANS FOR WALL INFILL.
- 3 REMOVE PORTIONS OF EXISTING WALL FOR NEW EXIT ACCESS DOOR. REFER TO DOOR SCHEDULE FOR OPENING DIMENSIONS.
- 4 REMOVE EXISTING ENCLOSURE AND ASSOCIATED COMPONENTS IN ITS ENTIRETY FOR NEW CONVEYOR EQUIPMENT.
- 5 VERIFY LOCATION AND OPENING SIZE OF WALL OPENING FOR NEW CONVEYORS WITH OWNER. REFER TO ARCHITECTURAL PLAN.

SHEET NOTES

- EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE THE DRAWINGS AND FIELD VERIFY EXISTING CONDITIONS TO DETERMINE SCOPE OF DEMOLITION WORK REQUIRED TO COMPLETE THE REMODELING WORK INDICATED ON THE DRAWINGS PRIOR TO PERFORMING WORK. ADDITIONAL WORK THAT IS REQUIRED, WAS VISIBLE, AND COULD HAVE BEEN IDENTIFIED DURING BIDDING SHALL BE COMPLETED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE OWNER.
- REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACTOR.
- DEMOLITION OF ANY EXISTING CONSTRUCTION SHALL INCLUDE WHAT IS NECESSARY AND REFER TO ACCOMMODATE THE REQUIREMENTS OF NEW CONSTRUCTION.
- ALL CORING THRU EXISTING FLOORS, WALLS & CEILINGS SHALL BE PERFORMED BY THE CONTRACTOR REQUIRING THE SAME.
- PATCH, REPAIR, PAINT, ETC. WALLS IN PREPARATION FOR NEW WORK WHERE ITEMS, FIXTURES OR FINISHES HAVE BEEN REMOVED.
- SURFACES SHALL BE PREPPED WITH THE NEW MATERIALS GUIDELINES OF INSTALLATION OF THEIR PRODUCT IN EXISTING CONDITIONS.
- ALL ADJACENT SURFACES DAMAGED BY DEMOLITION WORK SHALL BE RESTORED TO EXISTING CONDITION.
- ALL ROOF PENETRATIONS SHALL BE PERFORMED BY THE TRADE REQUIRING THE SAME. PATCHING & FLASHING ROOF SHALL BE PERFORMED BY THE ROOFING CONTRACTOR.
- VERIFY WITH OWNER FOR ITEMS TO BE SALVAGED BEFORE STARTING DEMOLITION WORK.
- COORDINATE DEMOLITION OF LOAD BEARING WALLS & STRUCTURAL ELEMENTS WITH STRUCTURAL PLANS.
- CONSTRUCT DUST PROOF PARTITIONS TO SEPARATE AREAS OF CONSTRUCTION FROM ADJACENT OCCUPIED AREAS OUTSIDE SCOPE OF CONSTRUCTION.
- PATCH & REPAIR FLOOR IN PREPARATION FOR NEW FLOORING WHERE WALLS HAVE BEEN REMOVED.
- REQUIRED MEANS OF EGRESS FROM THE BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, THE GENERAL CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.
- MAINTAIN THE INTEGRITY OF ALL EXISTING RATED ELEMENTS. FIRE SEAL ANY PENETRATIONS WITH U.L. APPROVED ASSEMBLY.
- CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO DEMOLITION ACTIVITIES. DO NOT INTERRUPT EXISTING UTILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY AHJ. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
- WHEN UTILITY SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, PROVIDE BYPASS CONNECTIONS TO MAINTAIN CONTINUITY OF SERVICE BEFORE PROCEEDING WITH REMOVAL.
- WHERE EXISTING INTERIOR PARTITIONS ARE REPLACED OR REMOVED, REMOVE MEP SYSTEMS BACK TO PANEL OR MECHANICAL ROOM OR FARTHEST POSSIBLE POINT WITHOUT DISTURBING EXISTING CONSTRUCTION. REMOVE EXISTING MECHANICAL EQUIPMENT. RELOCATE POWER PER MEP DRAWINGS.
- ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING: A) REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS. B) AT REPAIRS AND UNPAINTED CMU, PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT. C) PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.



KEYPLAN

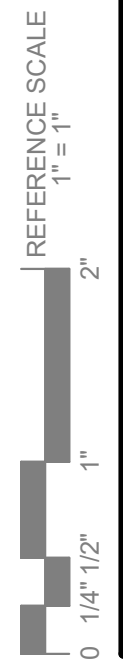
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PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
 WEST COLUMBIA SOUTH CAROLINA

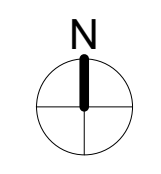
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DATE	DESCRIPTION	BY

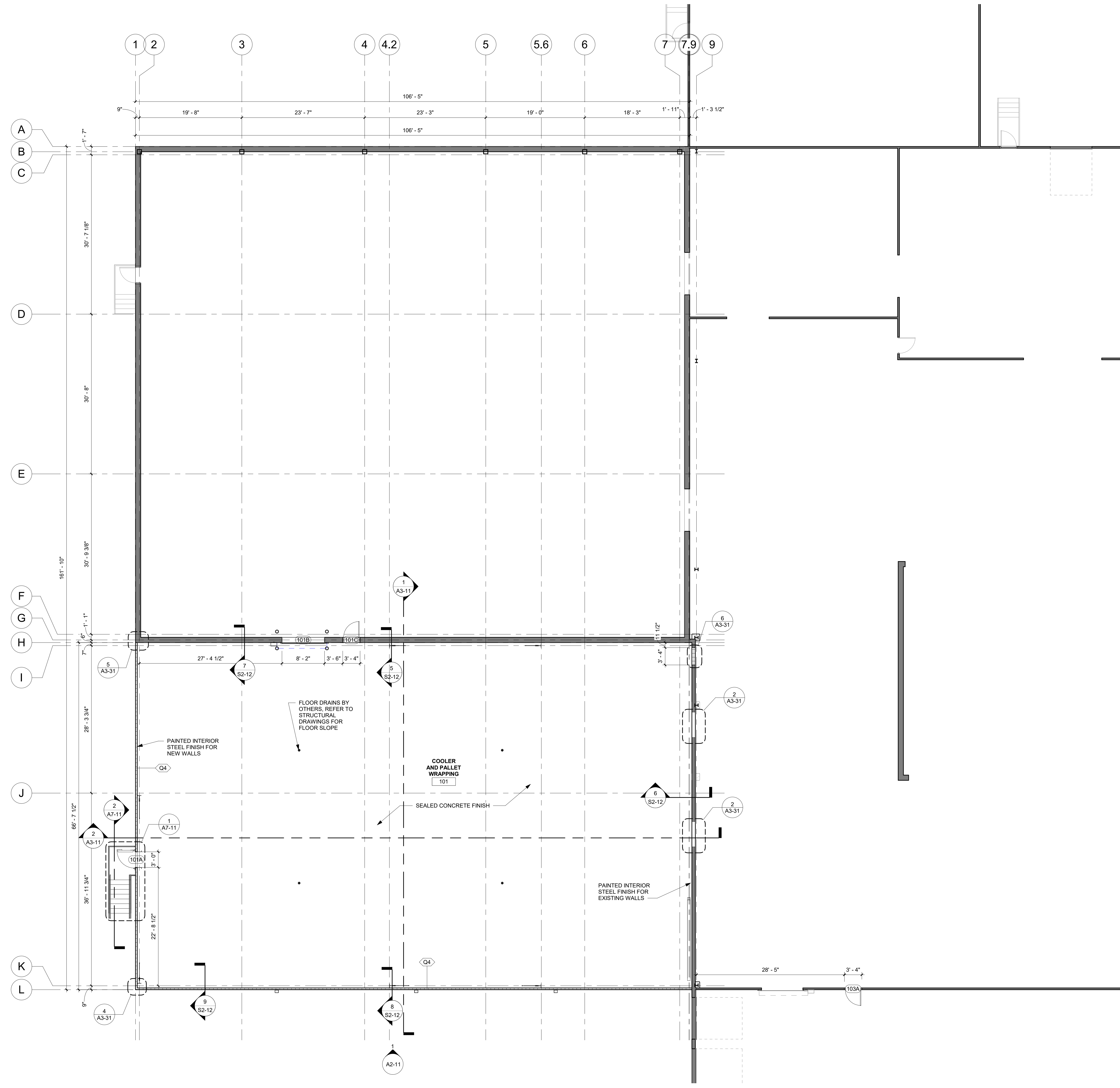
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 FILE NAME
 DRAWN BY Author
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 CLIENT PROJECT NO.

TITLE
FIRST FLOOR DEMOLITION PLAN
 SHEET
A1-11



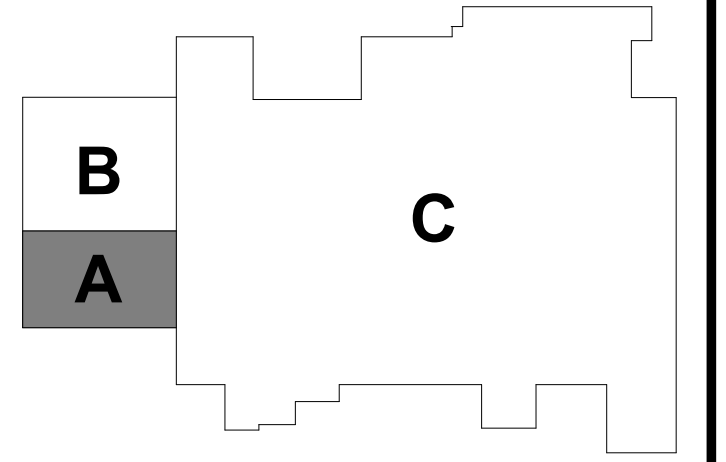
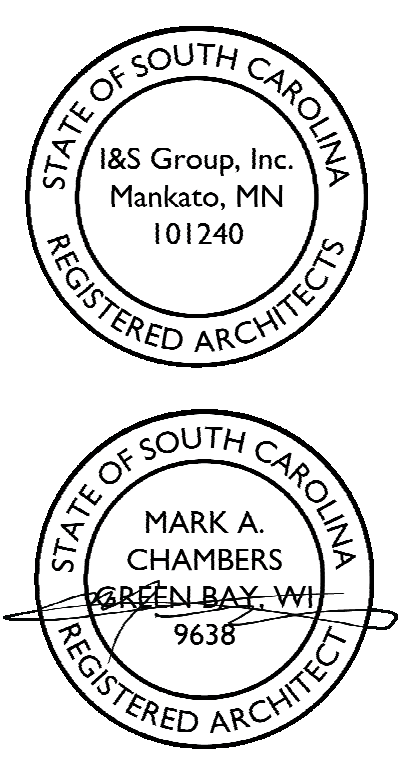
1 FIRST FLOOR DEMOLITION PLAN
 1/8" = 1'-0"





WALL LEGEND	
	EXISTING CONSTRUCTION TO REMAIN
	NEW CONSTRUCTION

- SHEET NOTES**
- SEE STRUCTURAL PLANS FOR IMP WALL BRACING DETAILS, COLUMN AND ROOF FRAMING LOCATIONS. SEE STRUCTURAL DRAWINGS FOR CAST-IN-PLACE CONCRETE CURB LOCATIONS AND FOUNDATION DETAILS.
 - SEE STRUCTURAL SLAB PLAN FOR FLOOR DRAIN LOCATIONS AND SLOPE REQUIREMENTS.
 - PAINT ALL EXPOSED METALS INCLUDING, BUT NOT LIMITED TO COLUMNS, RISERS, STRINGERS, HANDRAILS, GUARDRAILS, AND FLOOR EDGES, UNLESS NOTED OTHERWISE.
 - WHERE EXISTING ITEM IS REMOVED AND NEW ITEM IS SMALLER AND INSTALLED IN THE SAME LOCATION, CLEAN AND REPAIR THE SIGHT-EXPOSED SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHED TEXTURE, PATTERN, AND COLOR OF THE ADJACENT SURFACES TO REMAIN.



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BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
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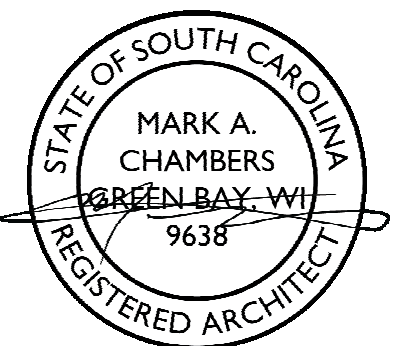
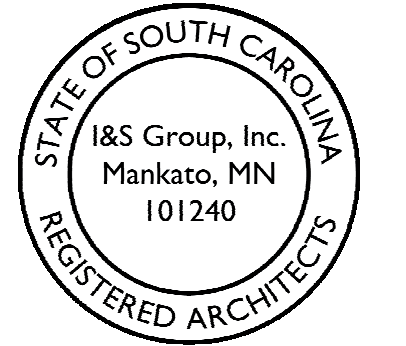
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TITLE
FIRST FLOOR PLAN

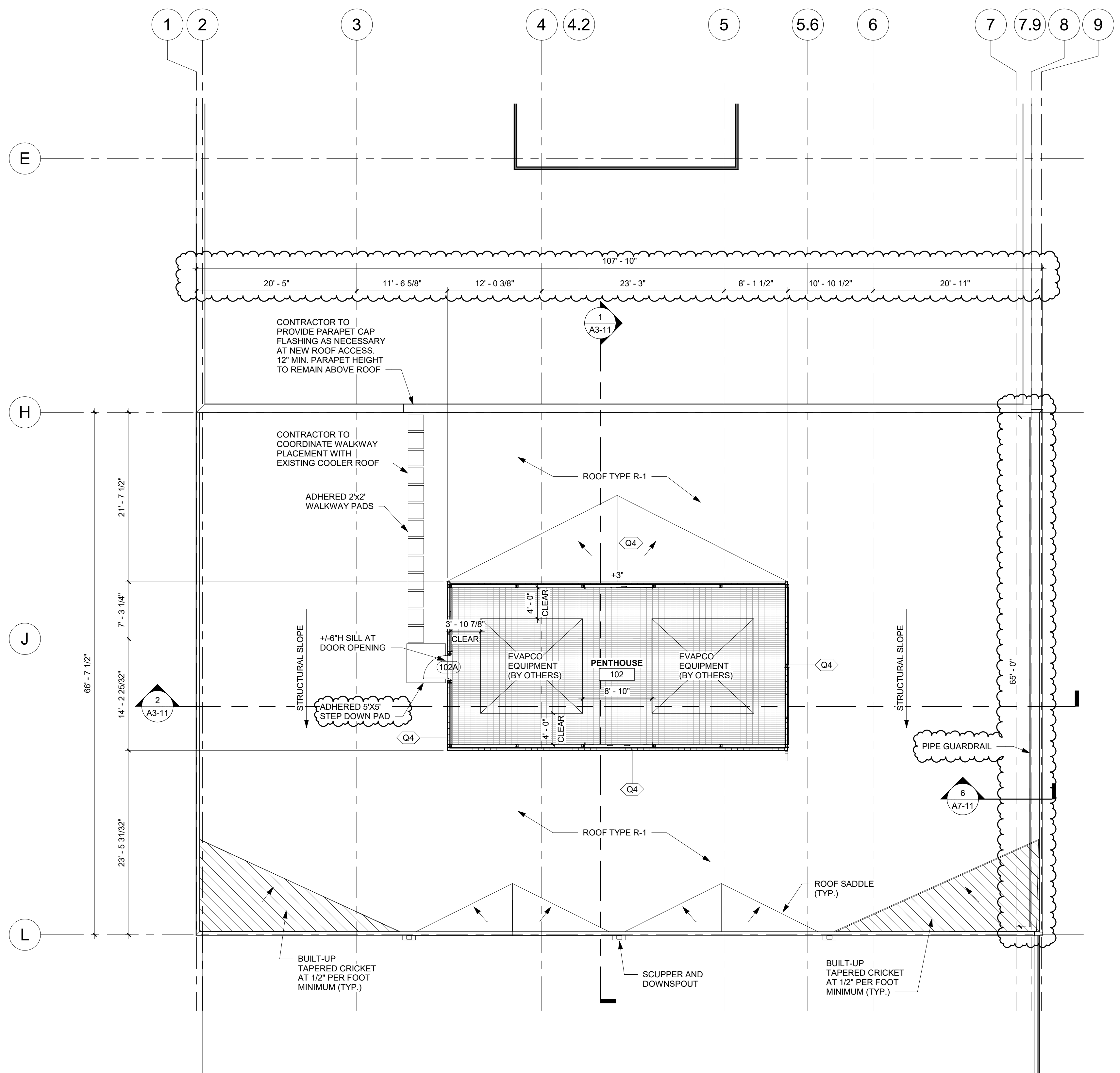
SHEET
A1-21

REFERENCE SCALE
 1" = 1'-0"
 0 1/4" 1/2" 1" 2"

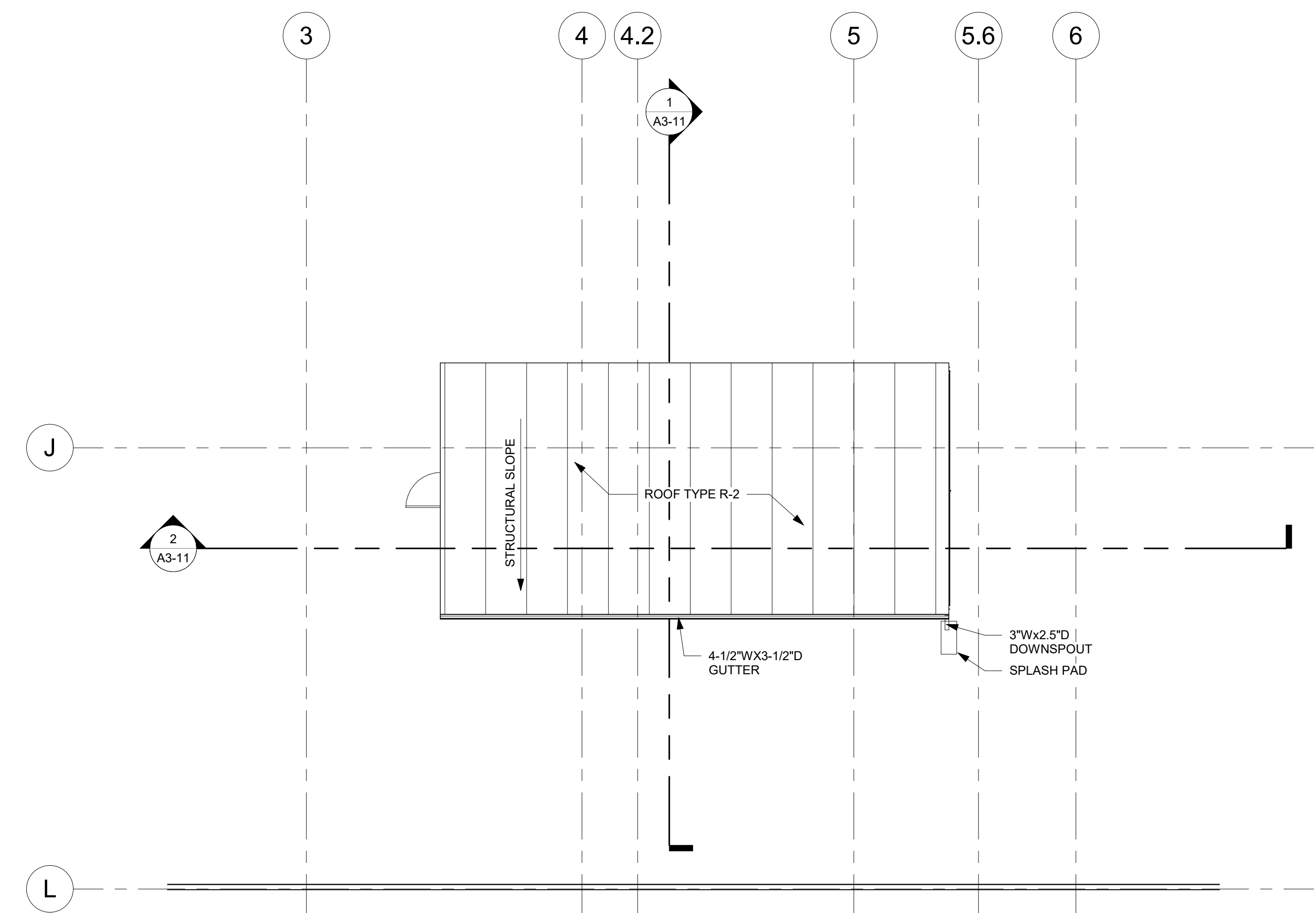
1 FIRST FLOOR PLAN
 1/8" = 1'-0"



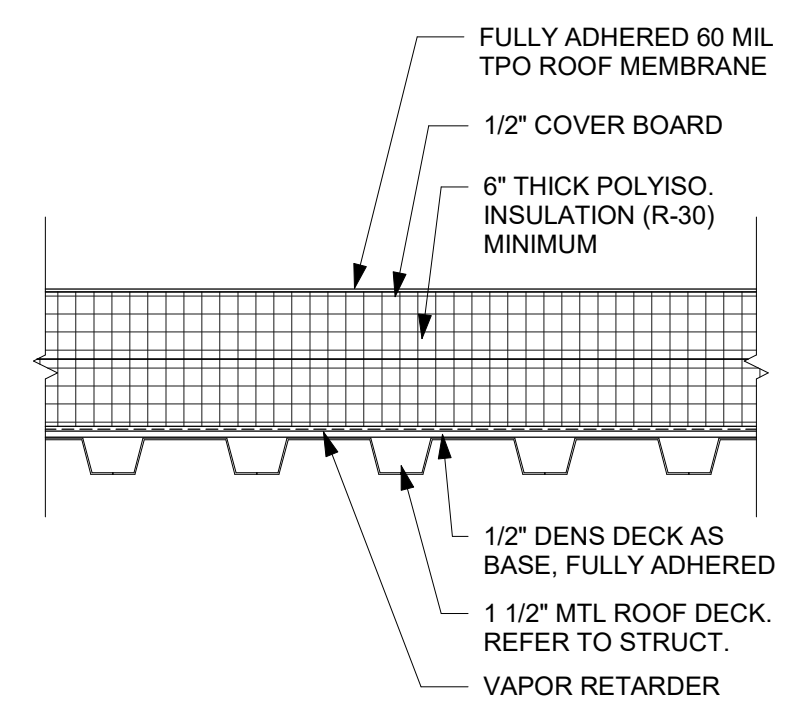
- SHEET NOTES**
- FIELD VERIFY EXACT QUANTITY, SIZE AND LOCATIONS OF ROOF HOODS, VENTS, DRAINS, EQUIPMENT, ETC.
 - ALL VENT-THRU PIPES SHALL BE EXTENDED, AS NECESSARY, TO PROTECT MINIMUM OF 12" ABOVE FINISHED ELEVATION OF ROOFING. FLASH ALL VENTS WITH PREMOULDED PIPE BOOTS WITH STAINLESS STEEL CLAMPING RING. ANY THAT EXTEND ABOVE THE PARAPET HEIGHT AND ARE VISIBLE FROM GROUND LEVEL SHALL BE PAINTED, UNLESS NOTED OTHERWISE.
 - ALL ROOF TOP CURBS TO BE SADDLES WITH MINIMUM 1/2" PER FOOT PITCH.
 - FLASH DRAINS, CURBS, VENTS AND STACKS PER MANUFACTURER'S RECOMMENDATIONS IF DETAIL NOT SHOWN ON PLANS.
 - PROVIDE SOLID WOOD BLOCKING WHERE INSULATION THICKNESS IS 6" OR MORE AND AT LOCATIONS INDICATED ON DRAWINGS, UNLESS NOTED OTHERWISE.
 - WALKWAY PADS TO BE INSTALLED AT ROOF ACCESS POINTS, TOP AND BOTTOM OF LADDERS AND AT SERVICE LOCATIONS AROUND ROOF TOP MECHANICAL UNITS.
 - FIELD VERIFY CONDITIONS PRIOR TO FABRICATION.



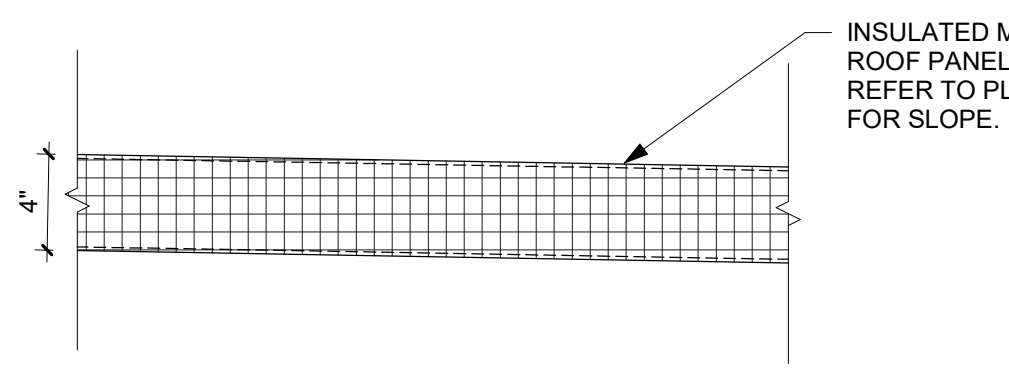
1 ROOF PLAN - COOLER
1/8" = 1'-0"



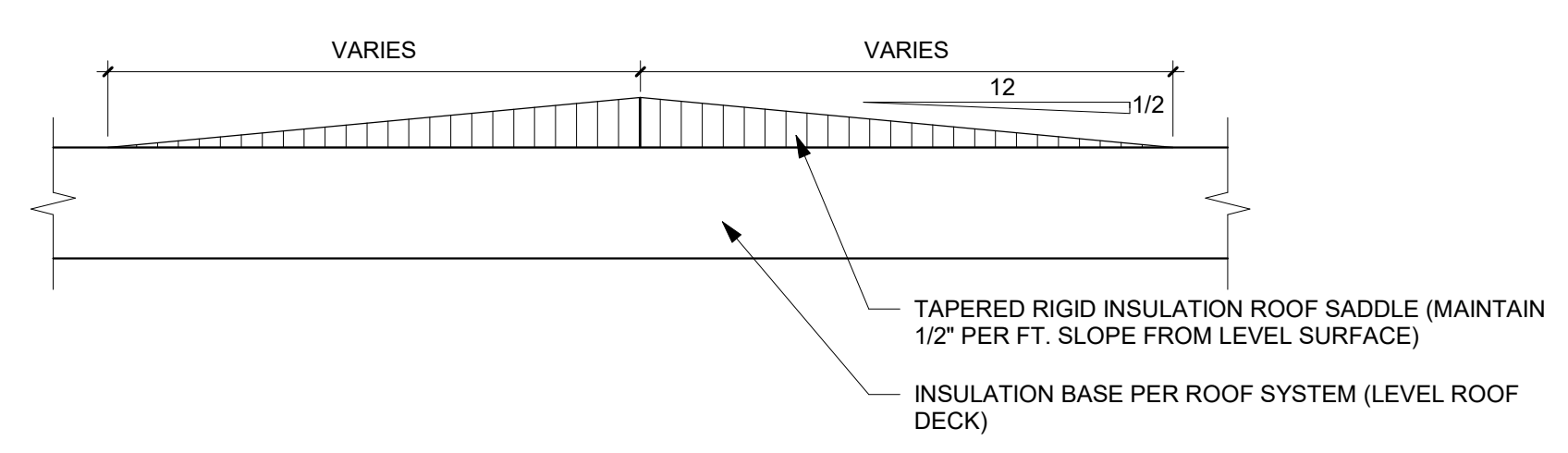
2 ROOF PLAN - COOLER PENTHOUSE
1/8" = 1'-0"



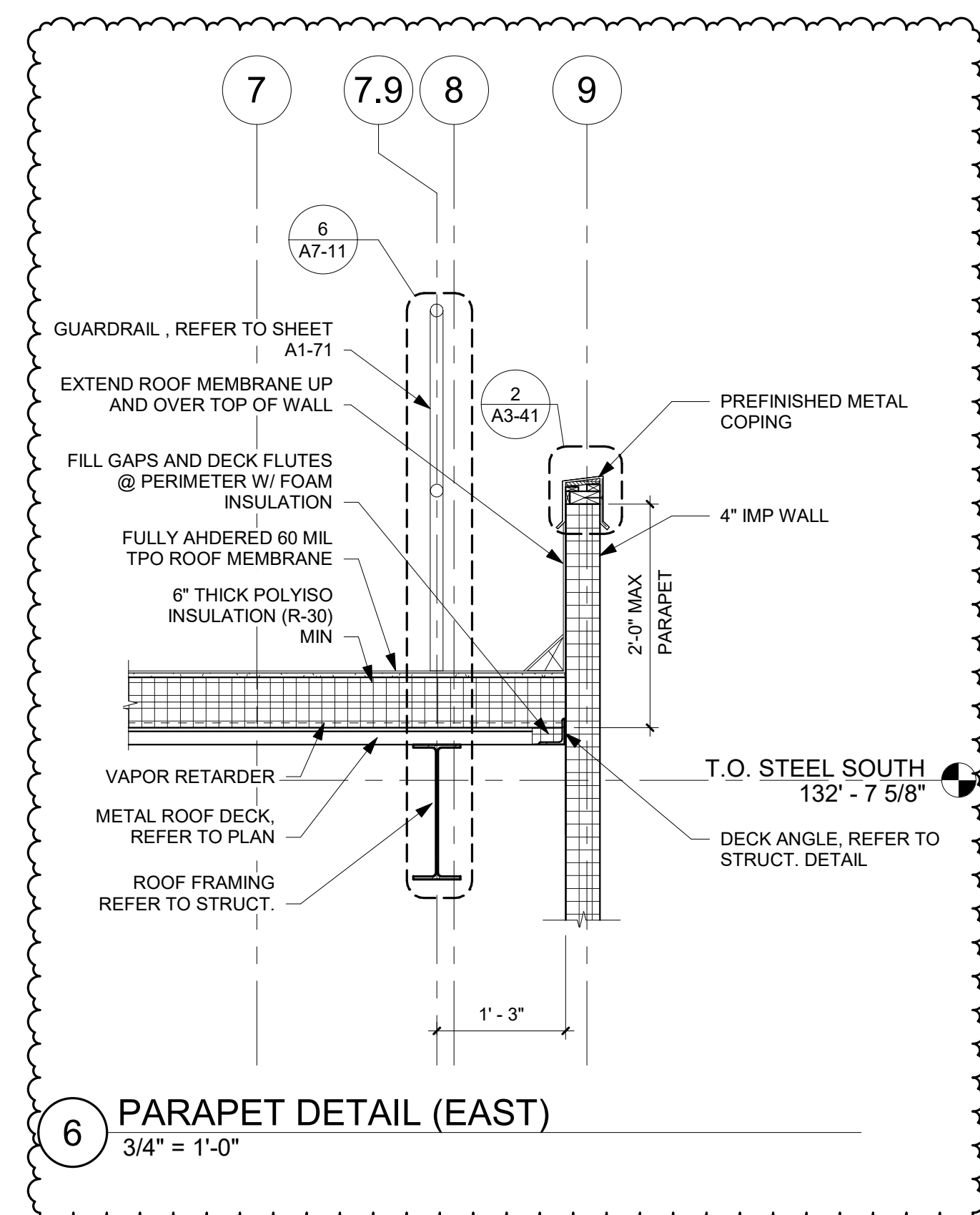
3 ROOF TYPE R-1
1 1/2" = 1'-0"



4 ROOF TYPE R-2
1 1/2" = 1'-0"



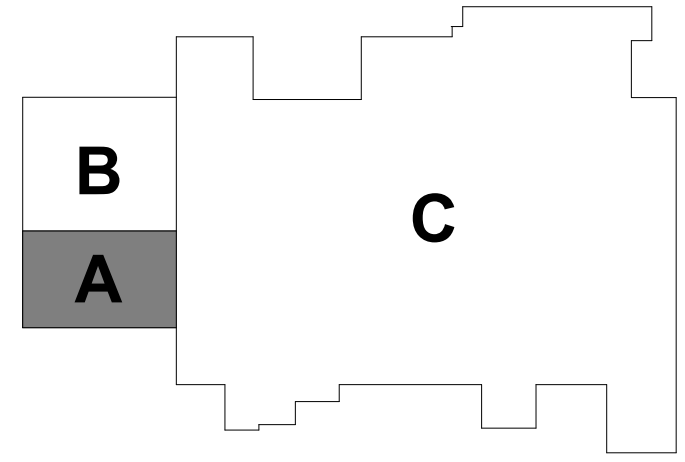
5 ROOF SADDLE DETAIL
1 1/2" = 1'-0"



6 PARAPET DETAIL (EAST)
3/4" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

6/17/2022 5:55:55 PM



KEYPLAN

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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MSZ

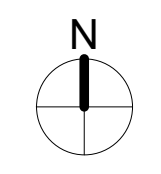
PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	PES
DESIGNED BY	PES
REVIEWED BY	MAC
ORIGINAL ISSUE DATE	05/27/2022
CLIENT PROJECT NO.	

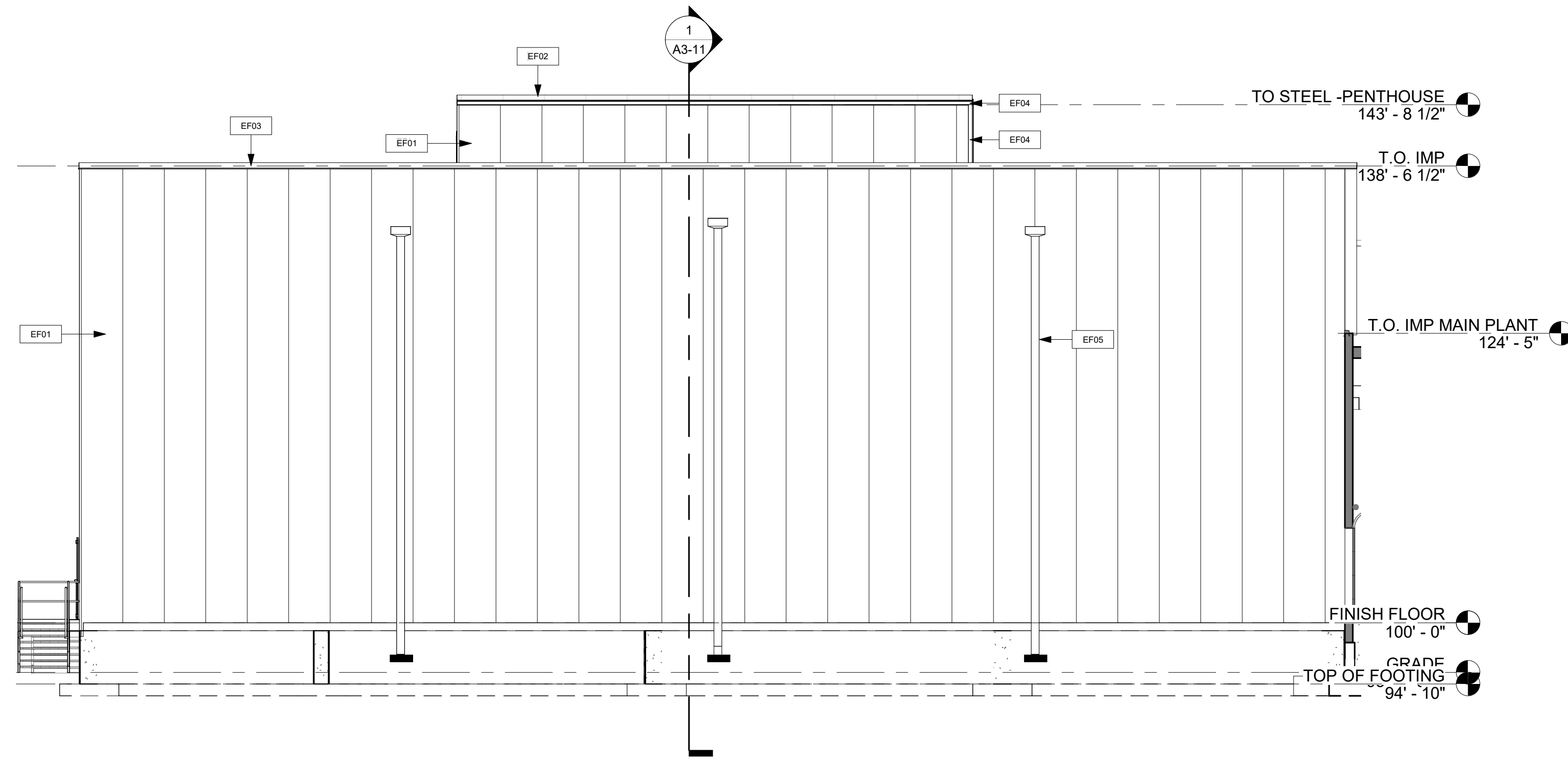
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ROOF PLAN

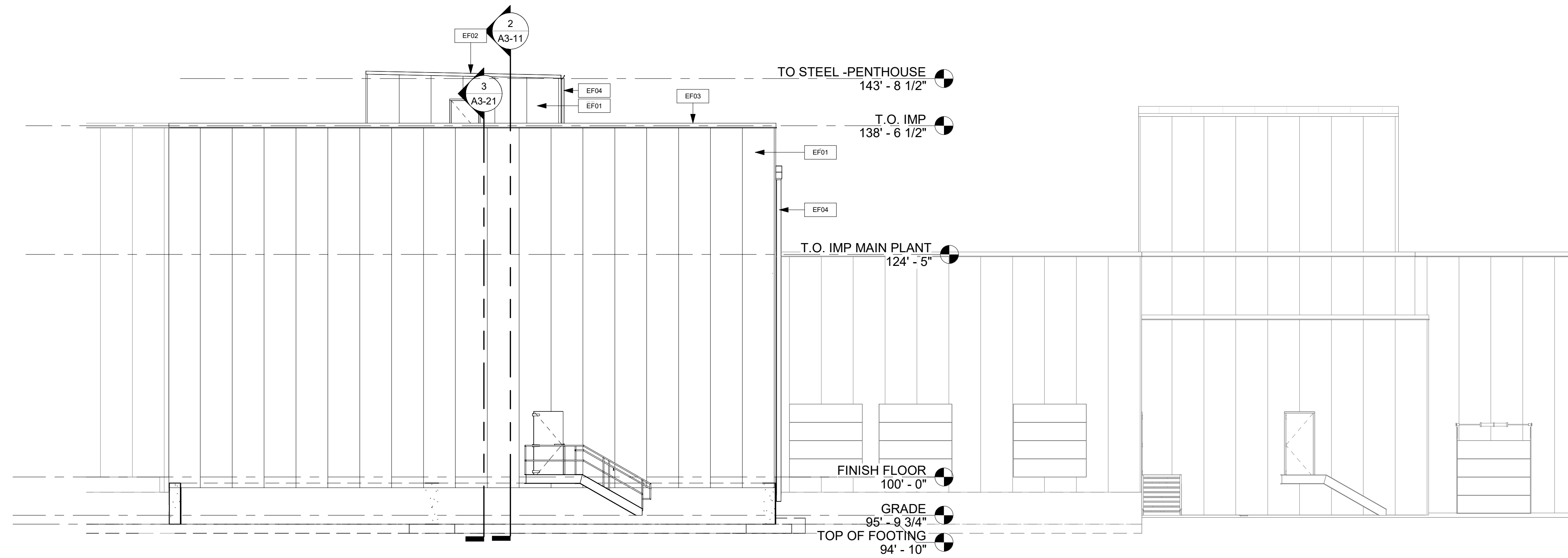
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A1-71



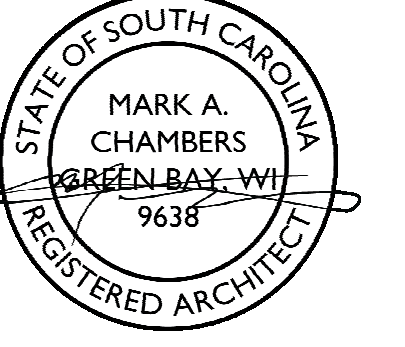
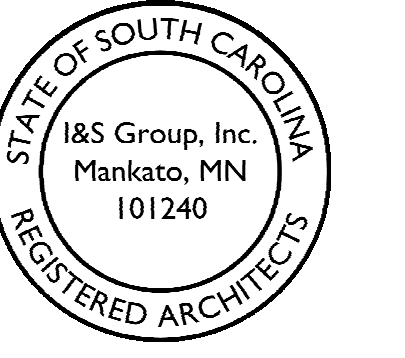


1 SOUTH ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE						
MARK	MATERIAL TYPE	MANUFACTURER	MODEL / SIZE	COLOR	ADDITIONAL INFORMATION	COMMENTS
EF01	4" INSULATED METAL PANEL	METAL SPAN	42" CF LIGHT MESA	WHITE	LIGHTLY PROFILED 1/16" DEEP UNEMBOSSED	COLOR TO MATCH EXISTING COOLER
EF02	4" INSULATED METAL PANEL ROOF	KING SPAN	40" KINGRIB MODEL 3	WHITE	MESA W/TRAPEZOIDAL RIBS	
EF03	4" PREFINISHED METAL COPING			WHITE		
EF04	PREFINISHED METAL GLUTTERS AND DS		3"Wx2.5"D(DS) 4.5"Wx3.5"D(GTR)	WHITE		
EF05	PREFINISHED METAL DS		6"Wx4.5"D	WHITE		



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WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	Author
DESIGNED BY	Designer
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ORIGINAL ISSUE DATE	MM/DD/YY
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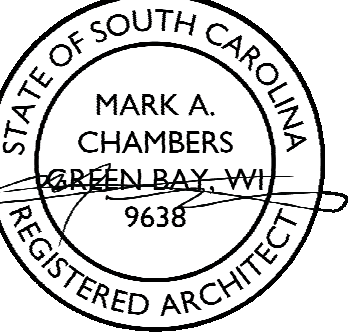
TITLE

EXTERIOR ELEVATIONS

SHEET

A2-11





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BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

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DATE	DESCRIPTION	BY

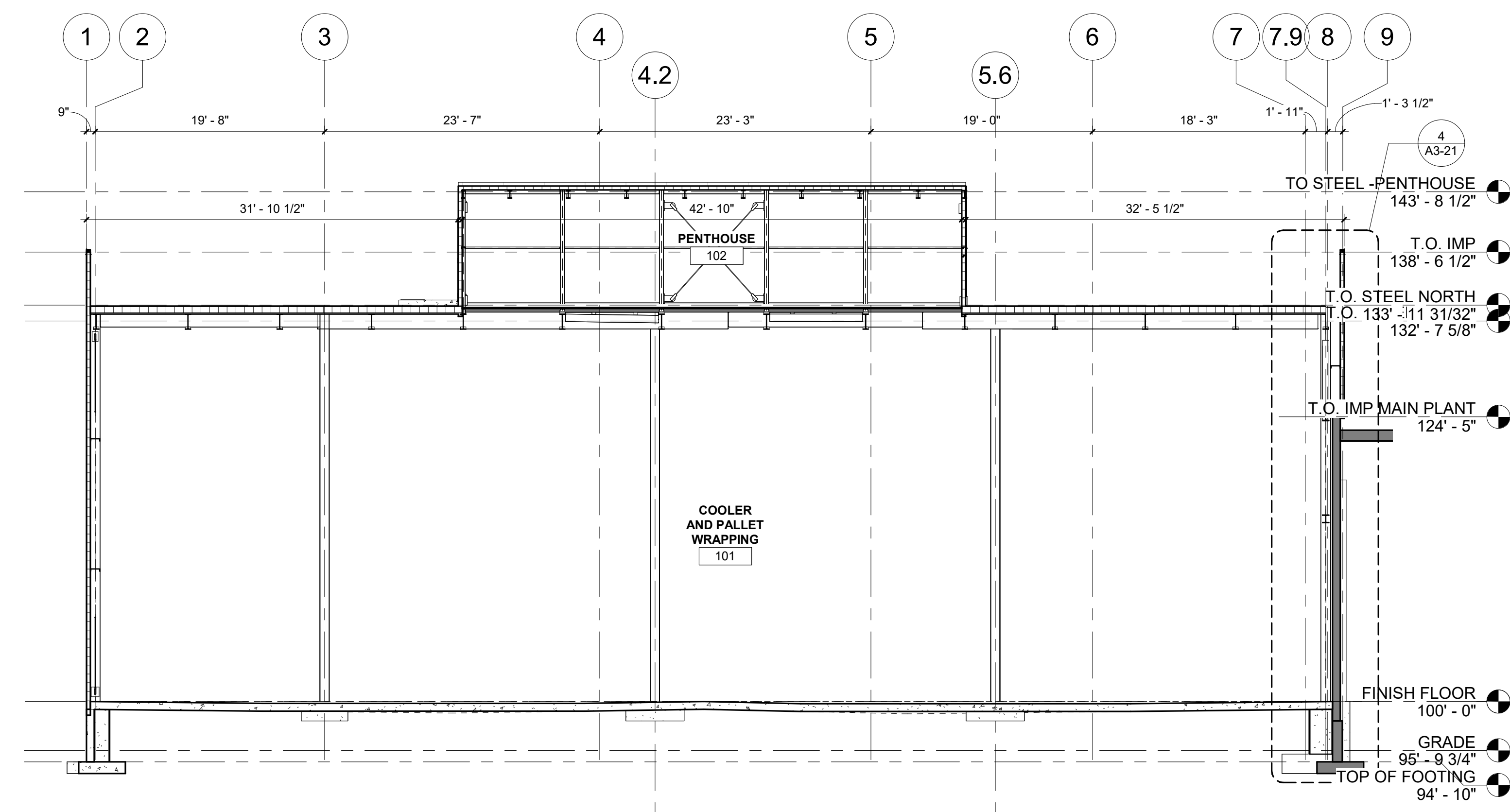
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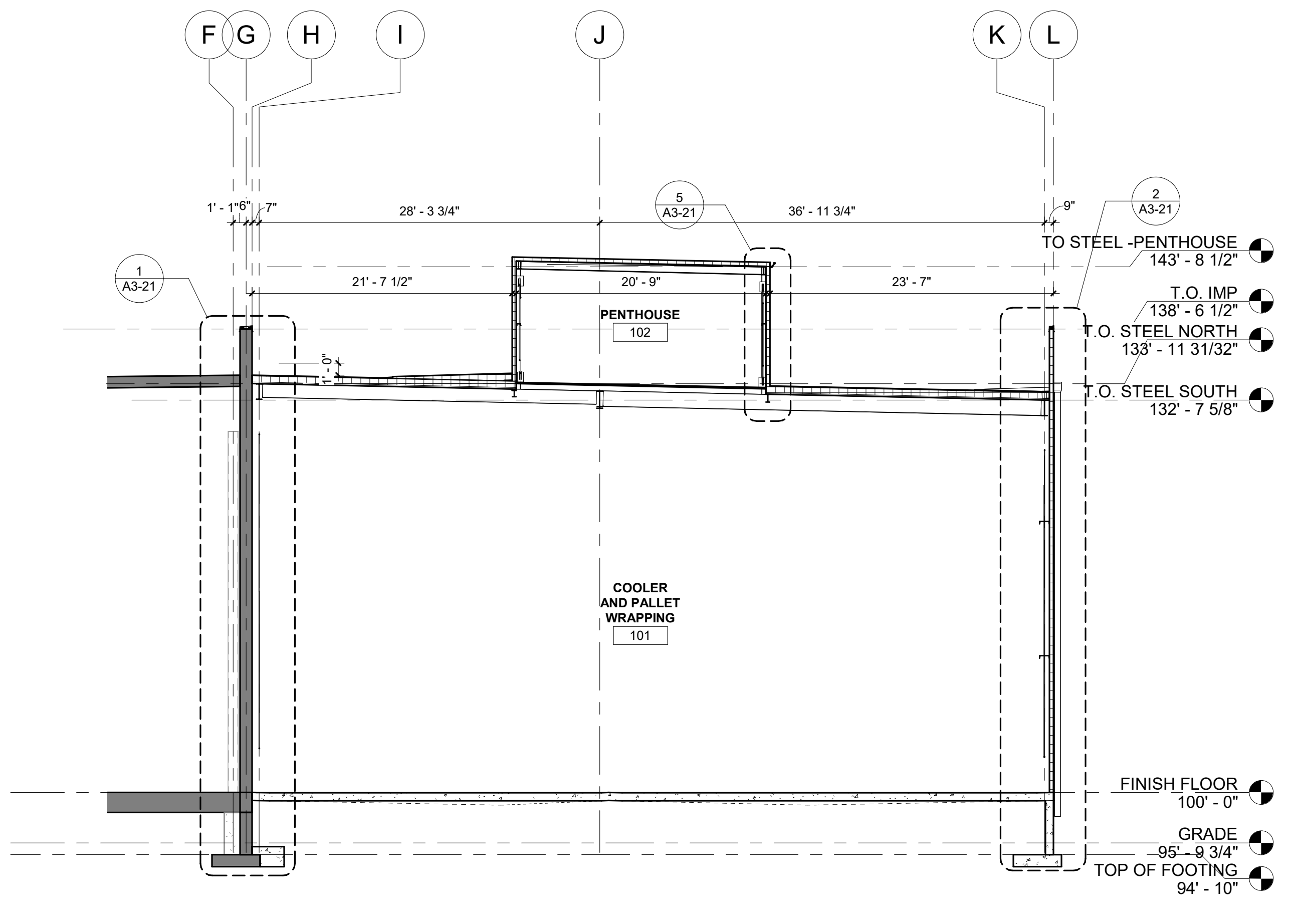
BUILDING SECTIONS

SHEET

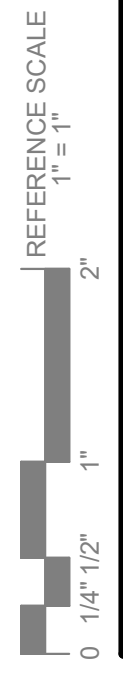
A3-11

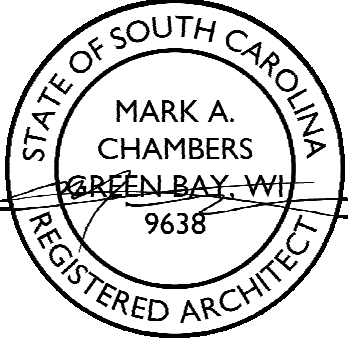
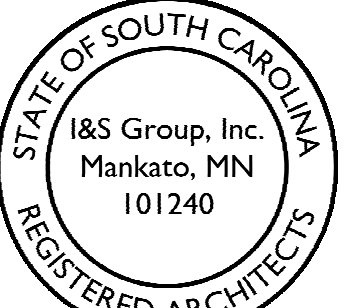


2 E-W BUILDING SECTION
1/8" = 1'-0"



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





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PROJECT

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WEST COLUMBIA SOUTH CAROLINA

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DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MZ

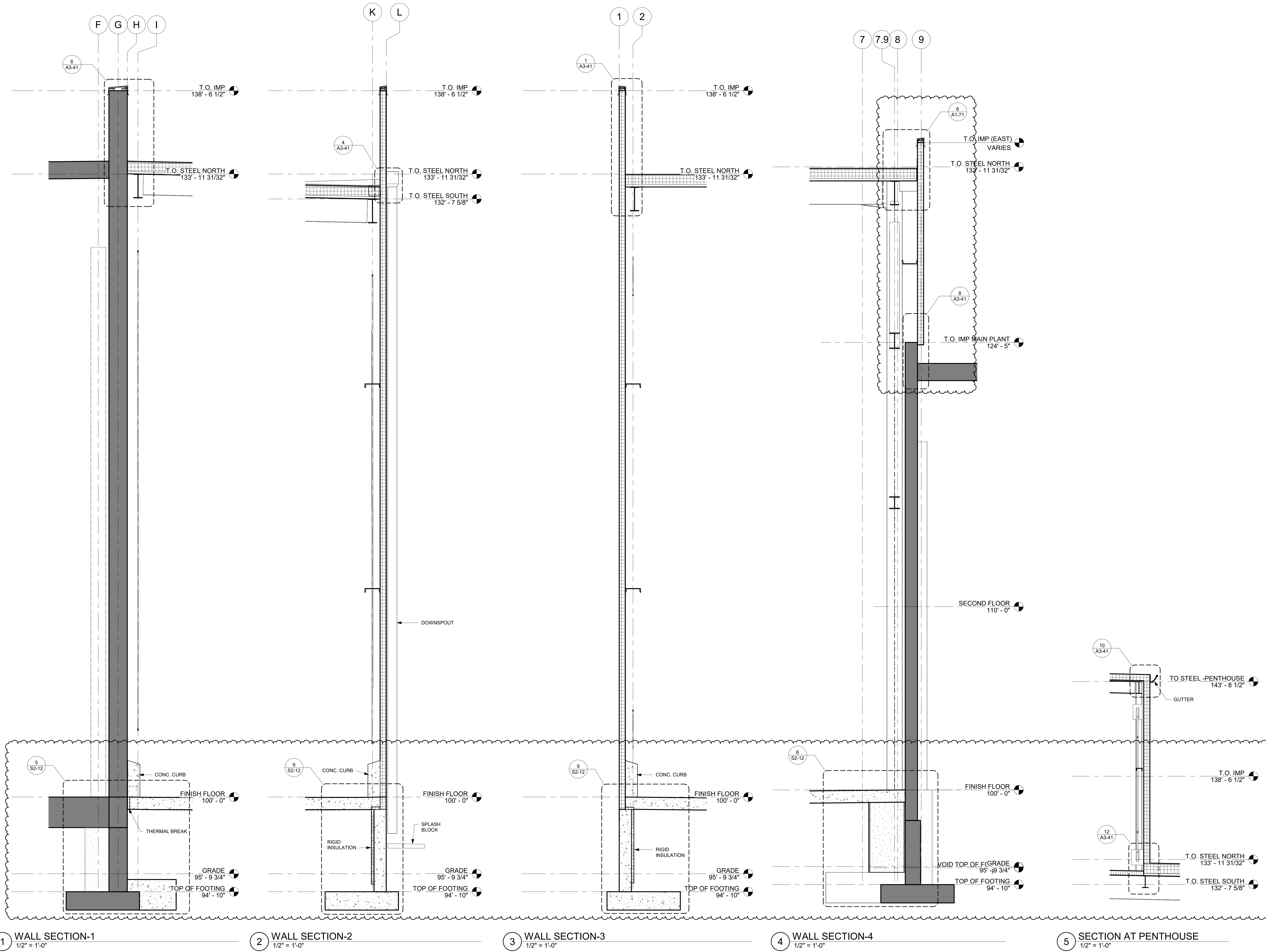
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CLIENT PROJECT NO.	

TITLE

WALL SECTIONS

SHEET

A3-21



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

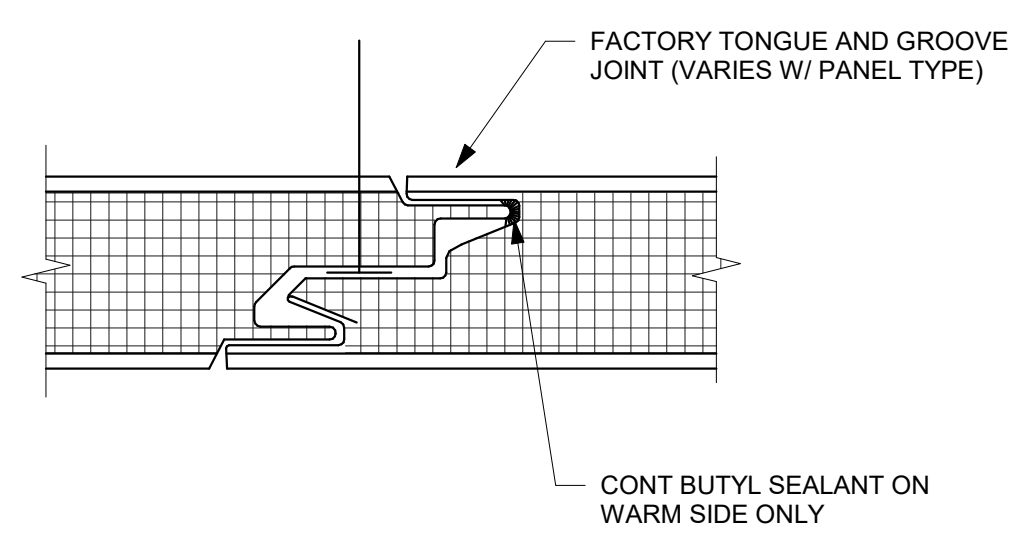
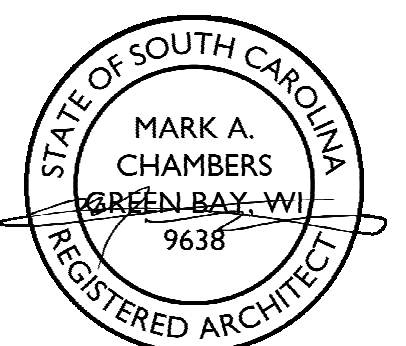
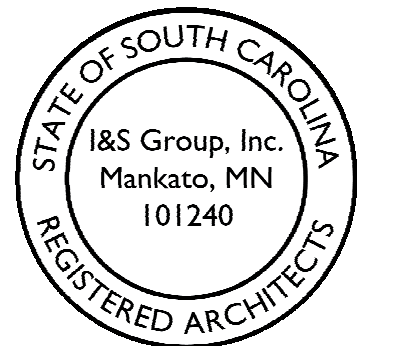
2 WALL SECTION-2
1/2" = 1'-0"

3 WALL SECTION-3
1/2" = 1'-0"

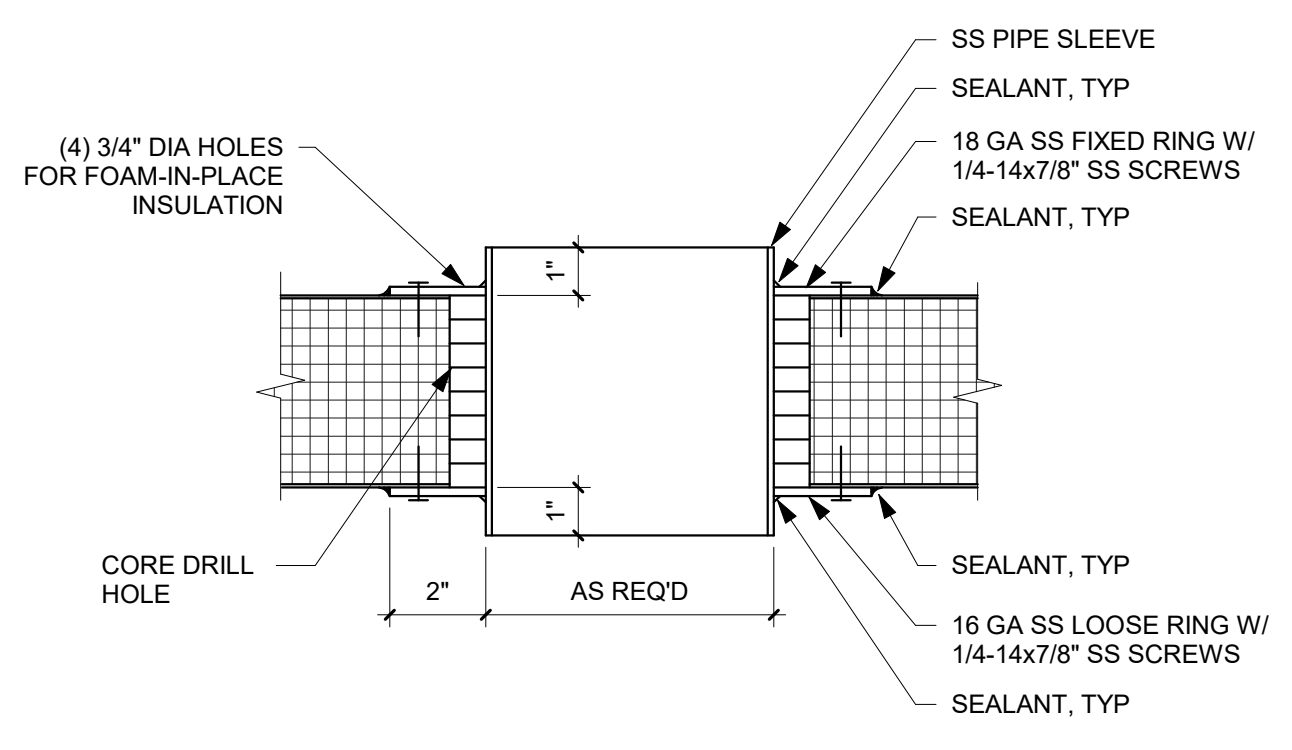
4 WALL SECTION-4
1/2" = 1'-0"

5 SECTION AT PENTHOUSE
1/2" = 1'-0"

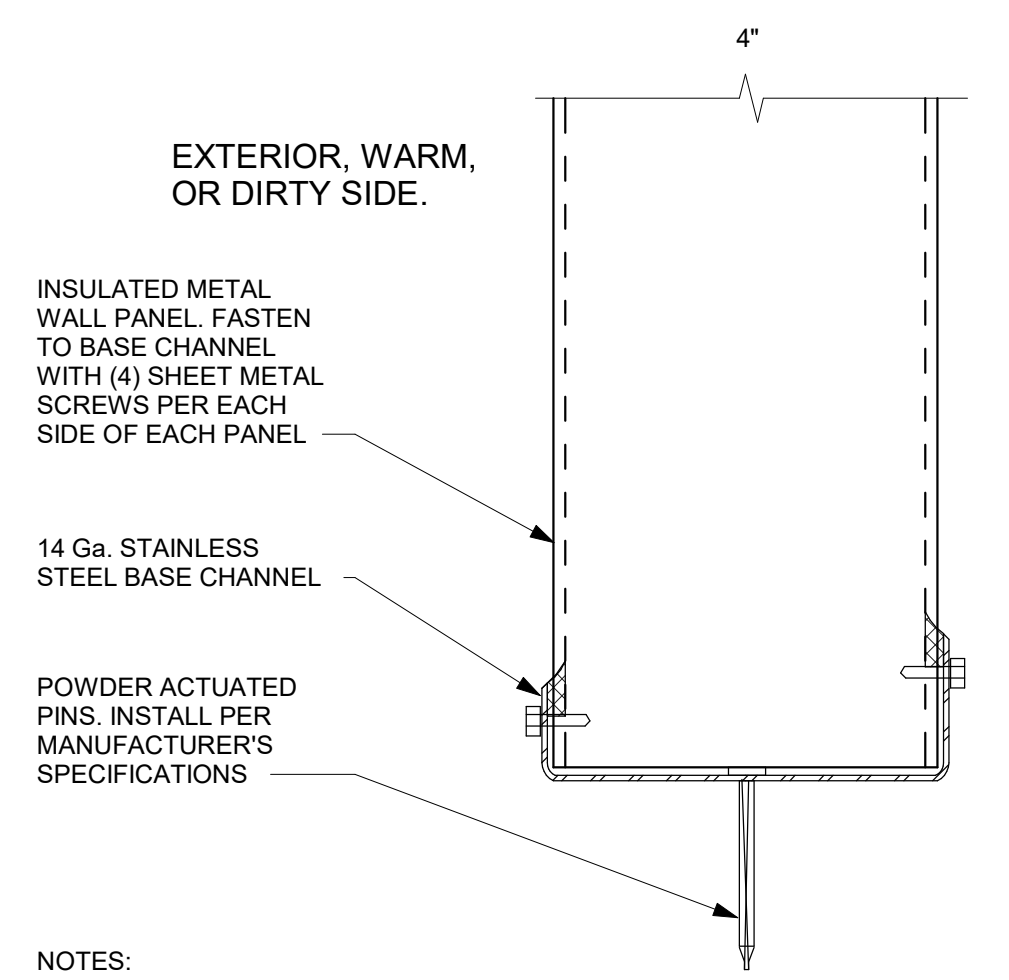
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1" = 1'-0"
0 1/4" 1/2" 1" 2"



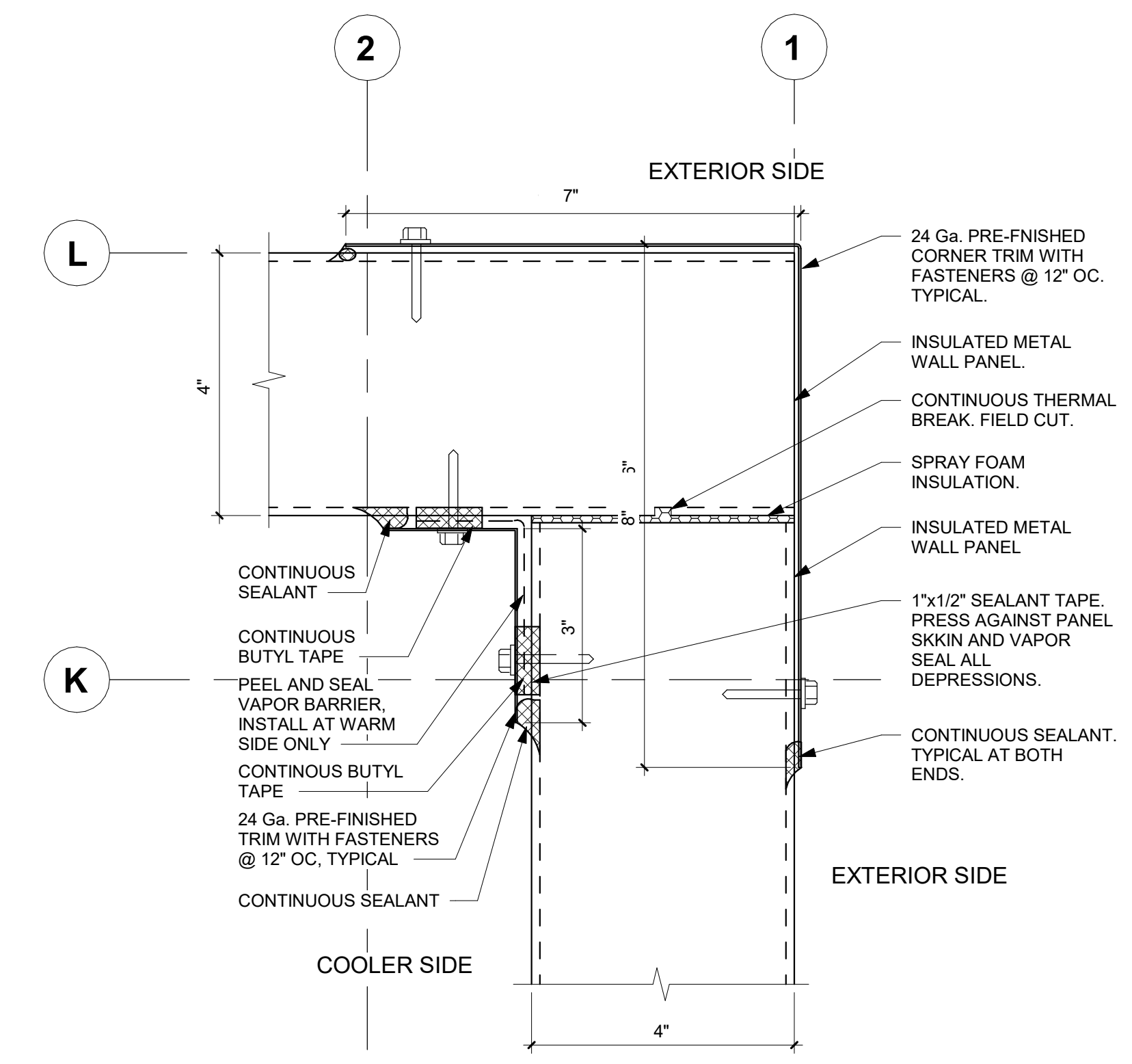
1 WALL - IMP - PANEL EDGE JOINT (TYPICAL)
NOT TO SCALE



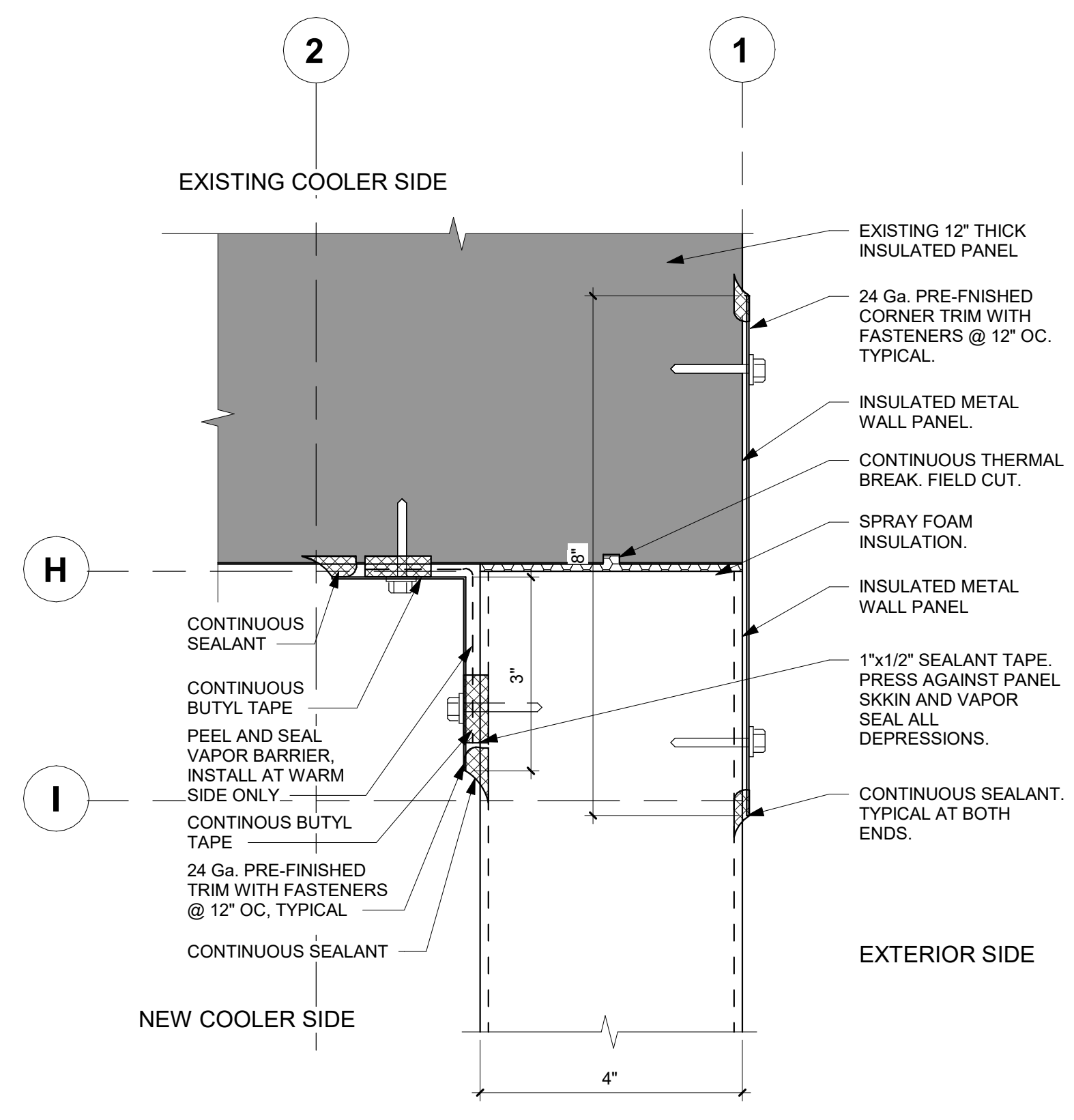
2 WALL - IMP - SLEEVE THRU IMP
NOT TO SCALE



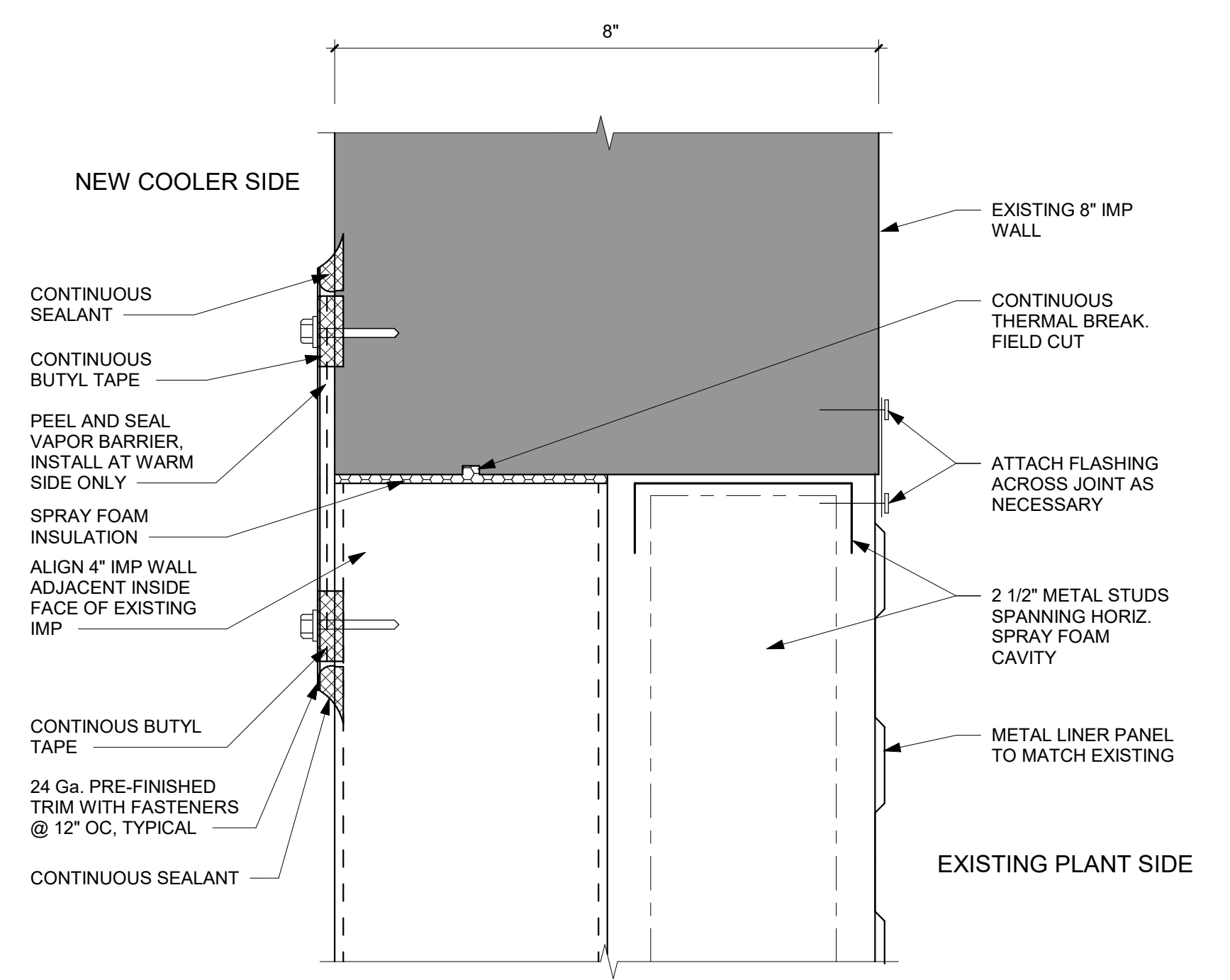
3 INSULATED METAL WALL PANEL BASE
NOT TO SCALE



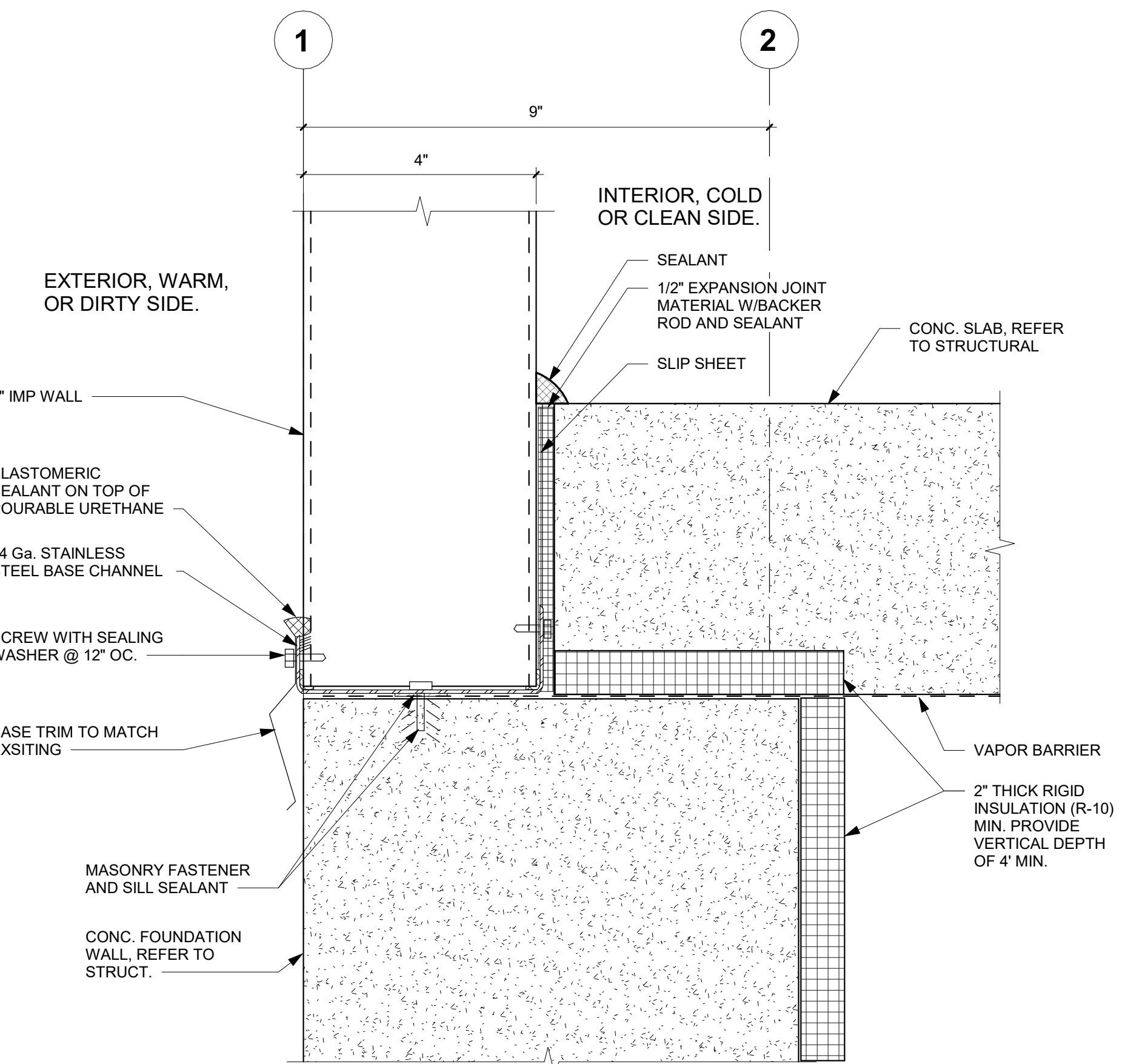
4 INSULATED METAL WALL PANEL CORNER
NOT TO SCALE



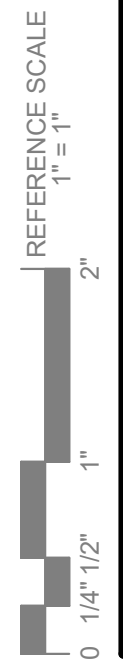
5 INSULATED METAL WALL PANEL AT EXISTING
NOT TO SCALE



6 IMP INFILL DETAIL
NOT TO SCALE



7 IMP AT FOUNDATION WALL DETAIL
NOT TO SCALE



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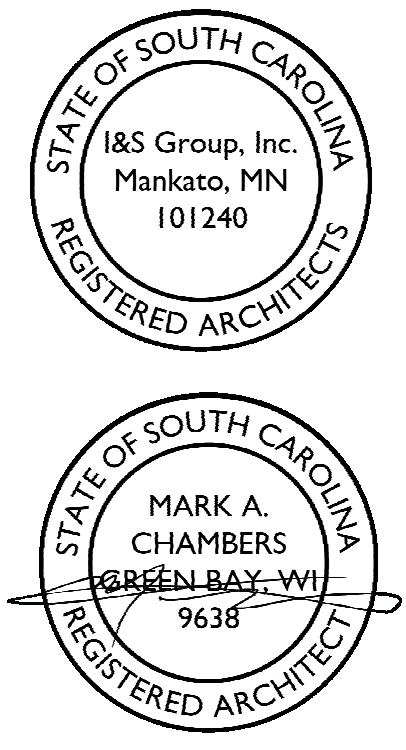
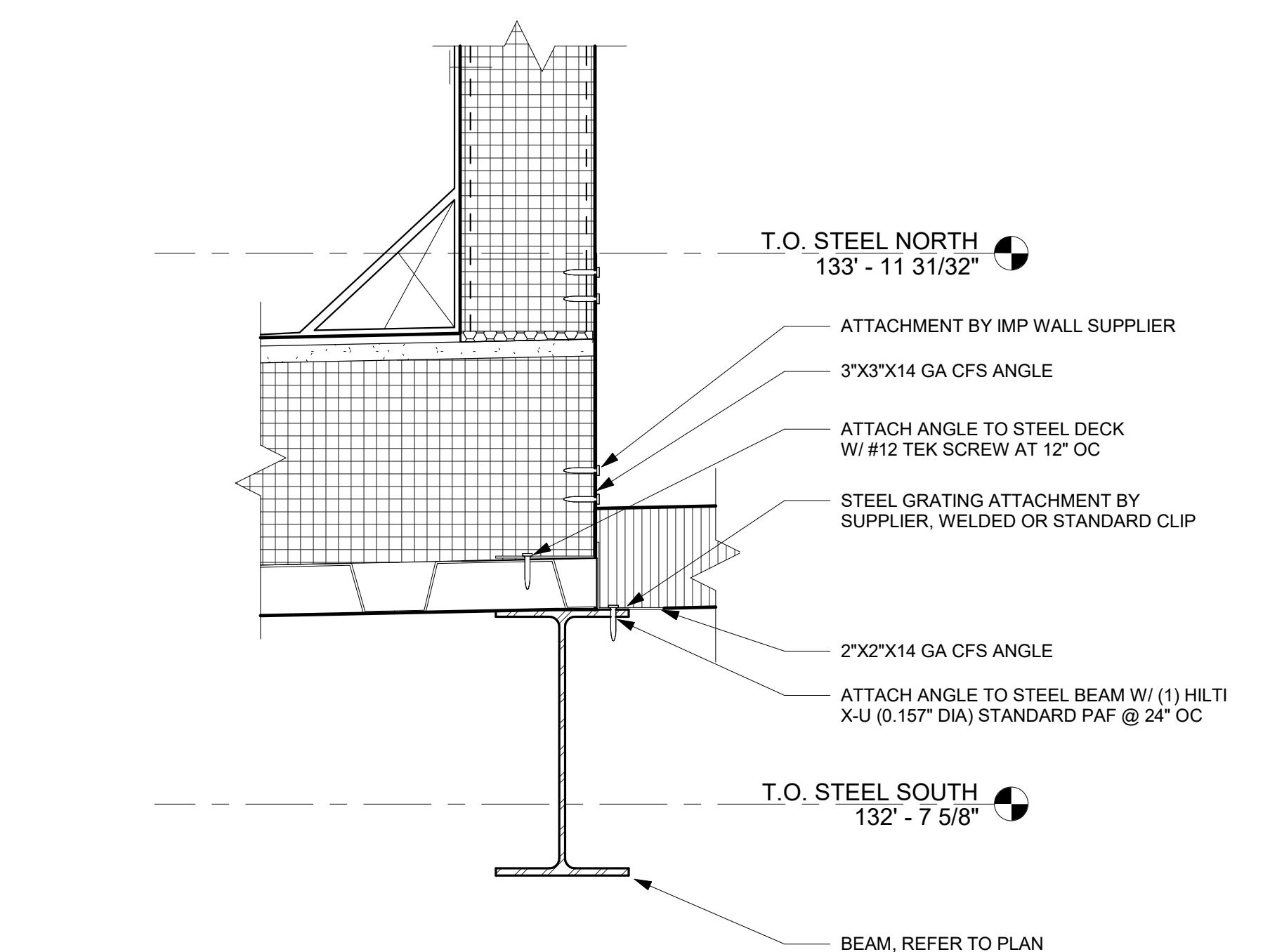
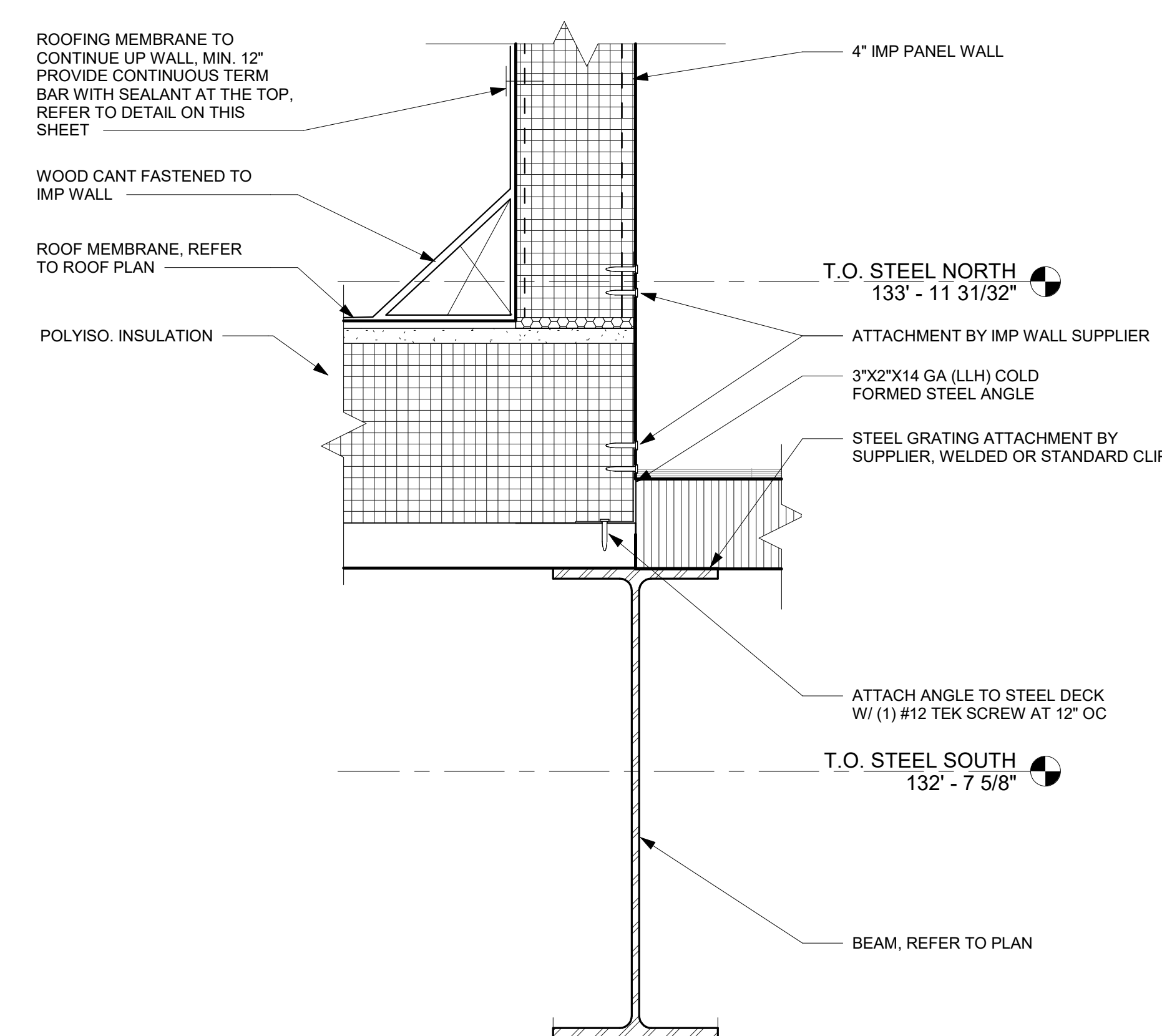
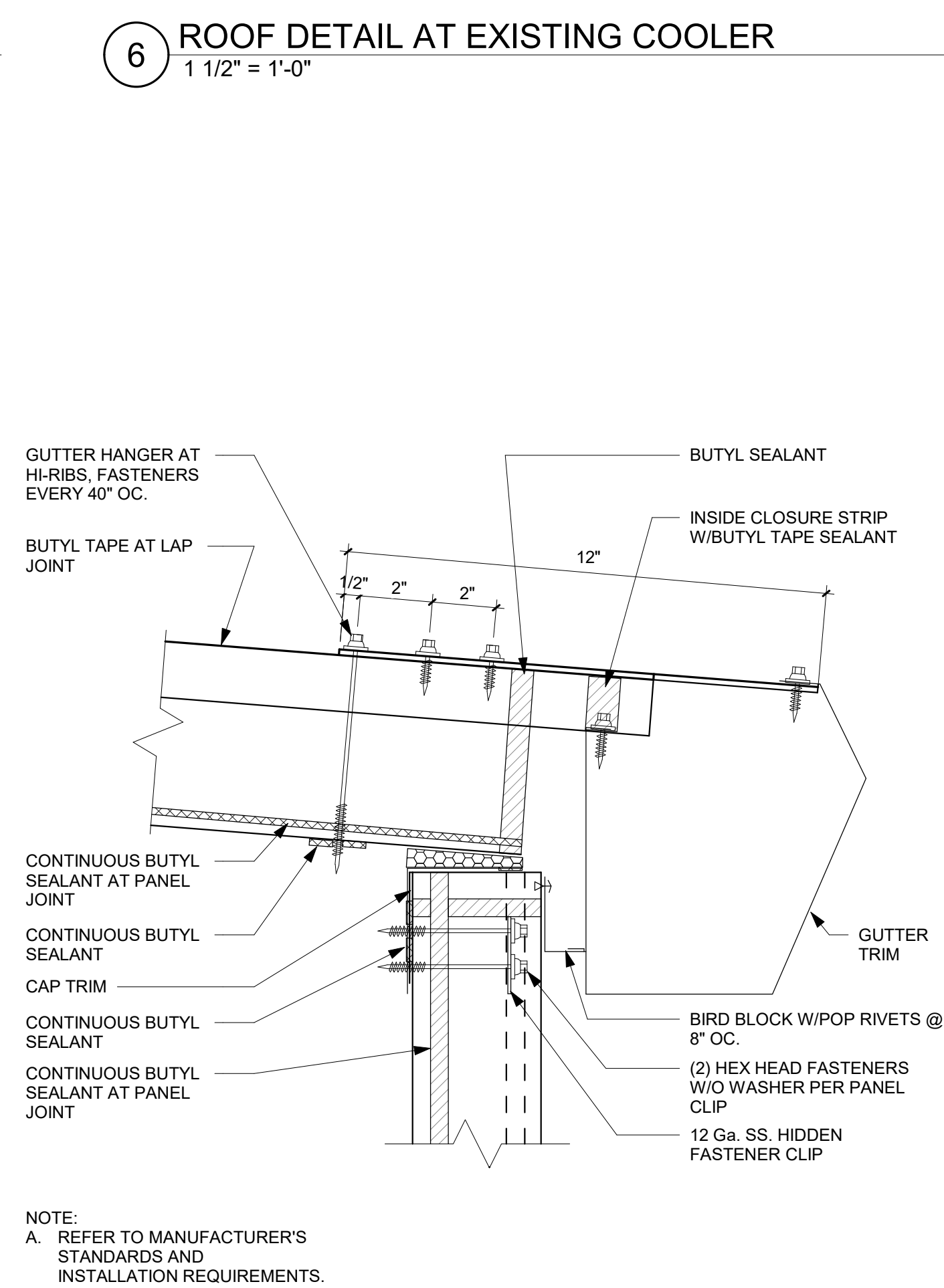
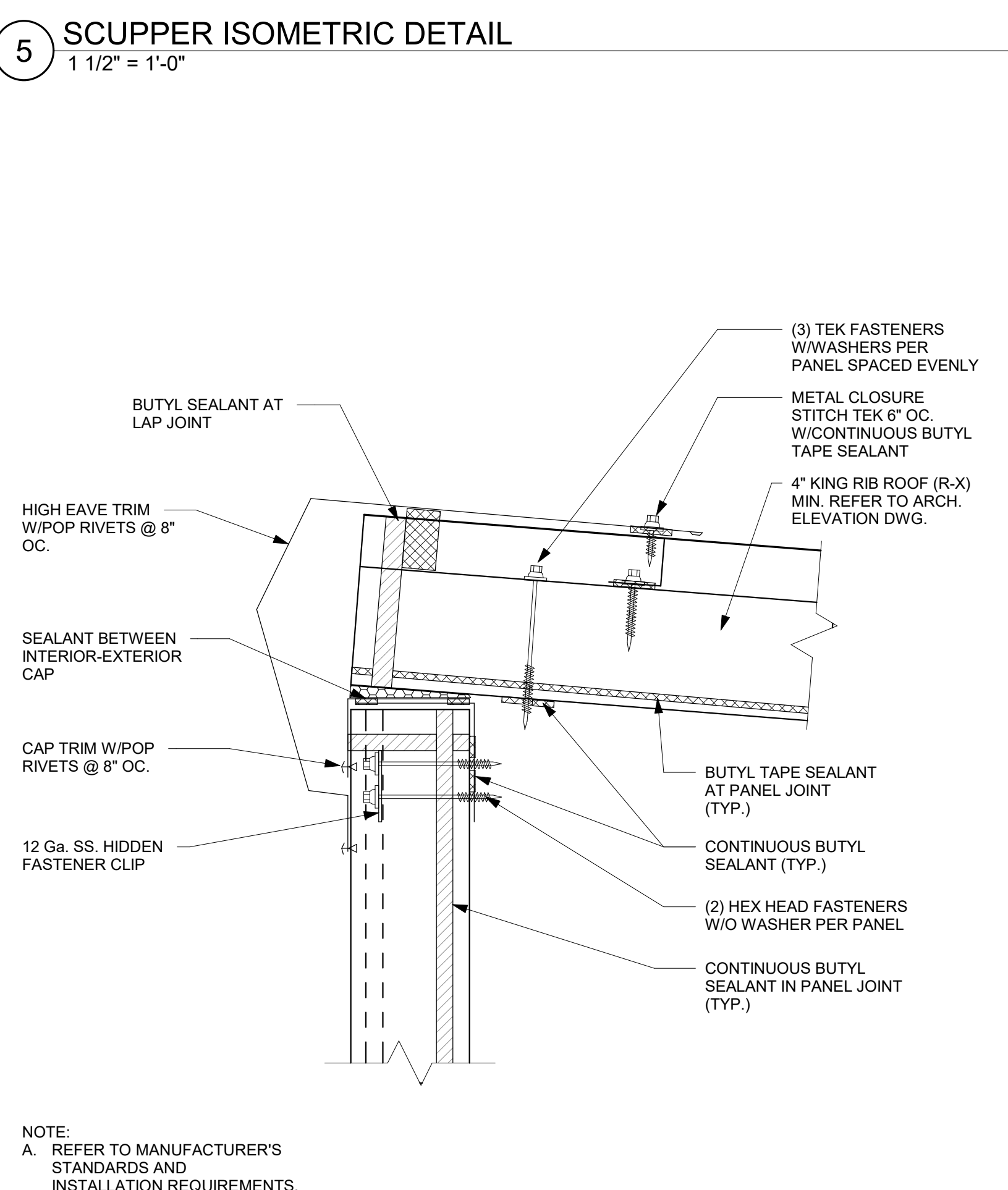
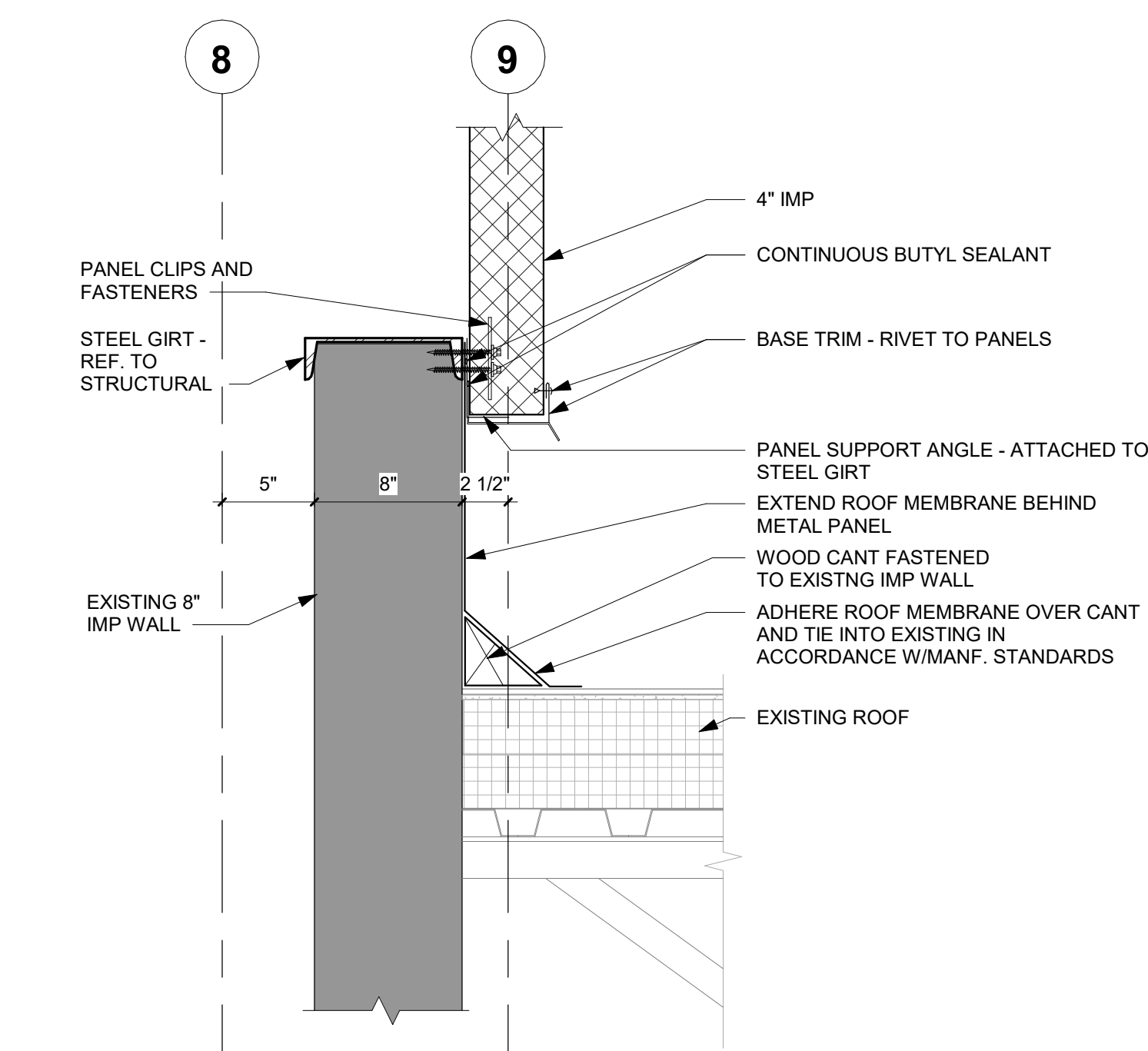
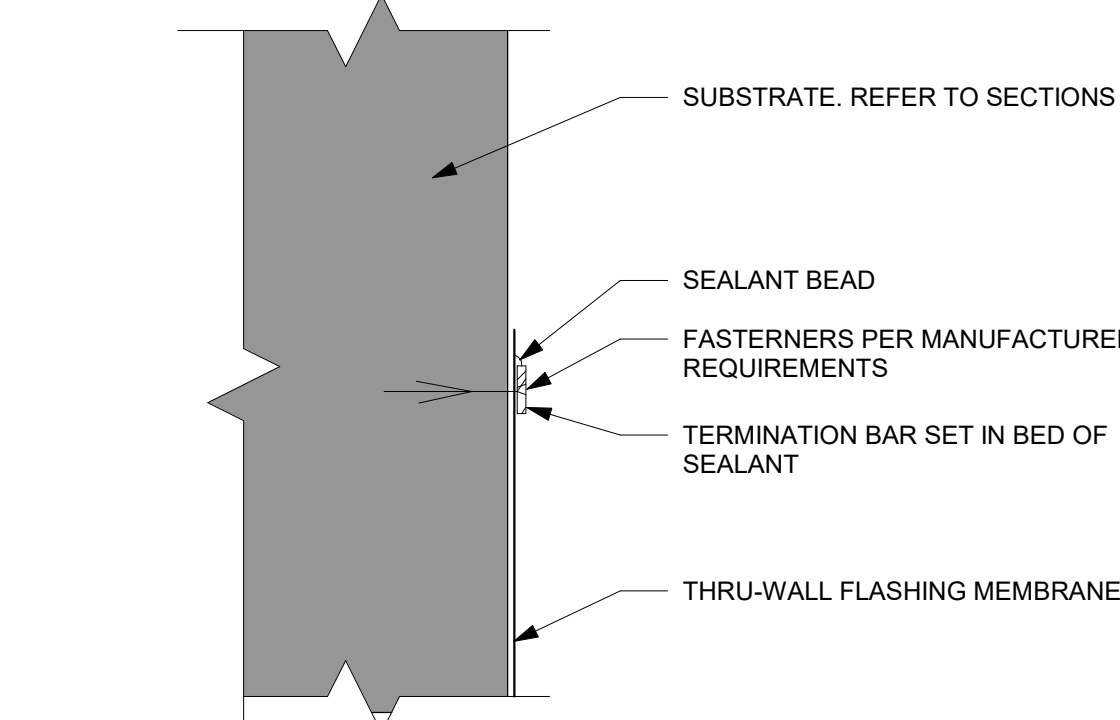
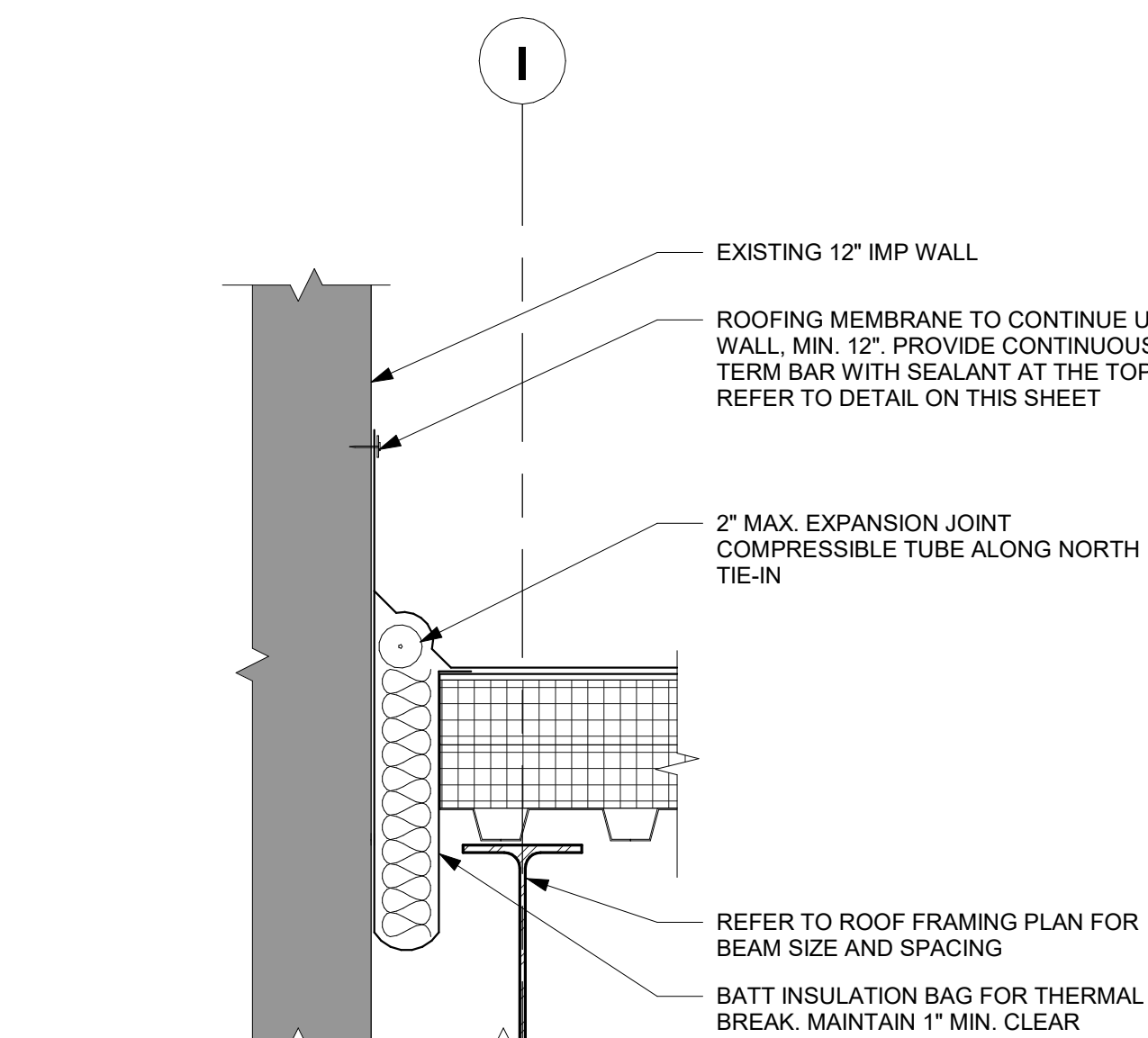
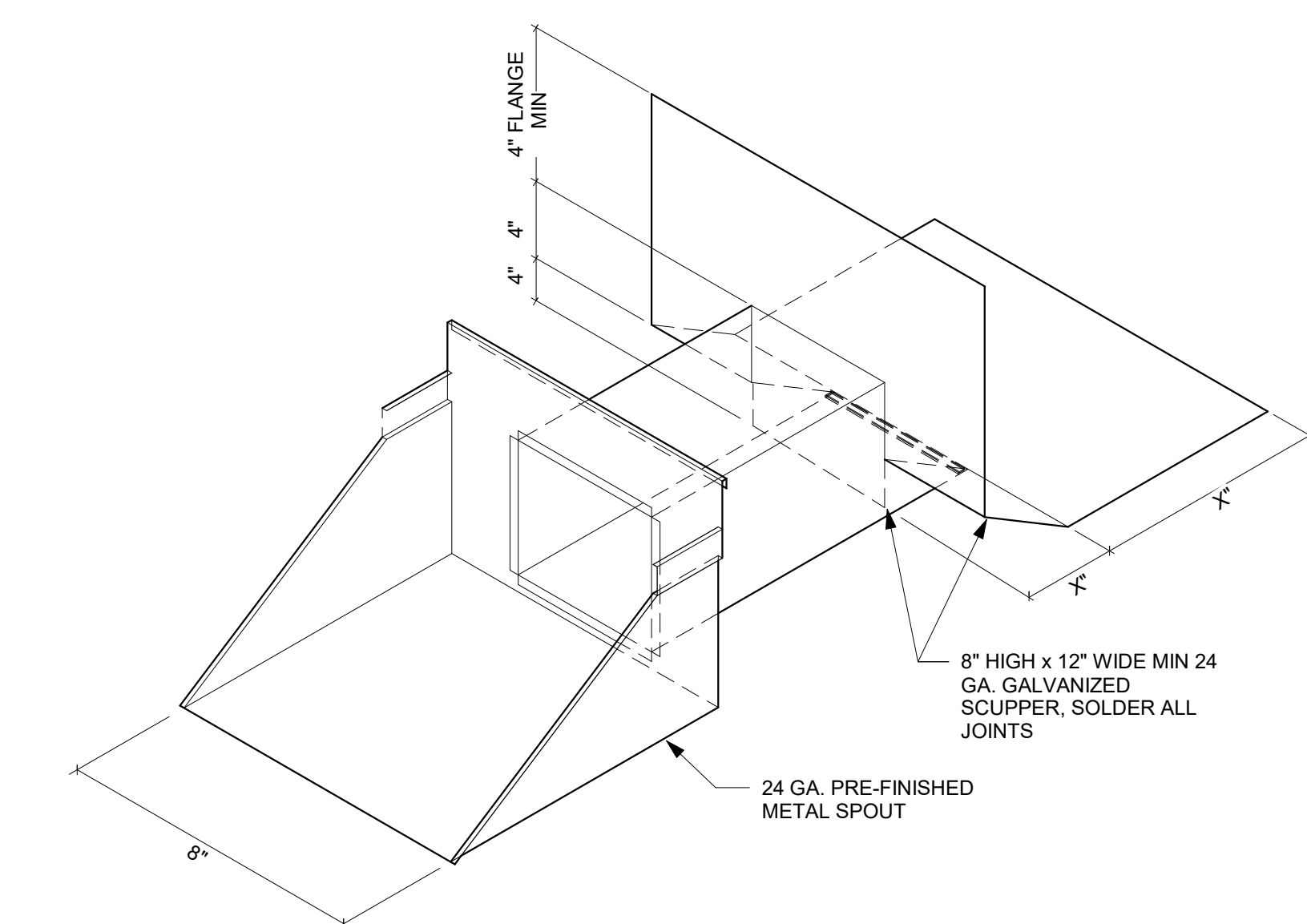
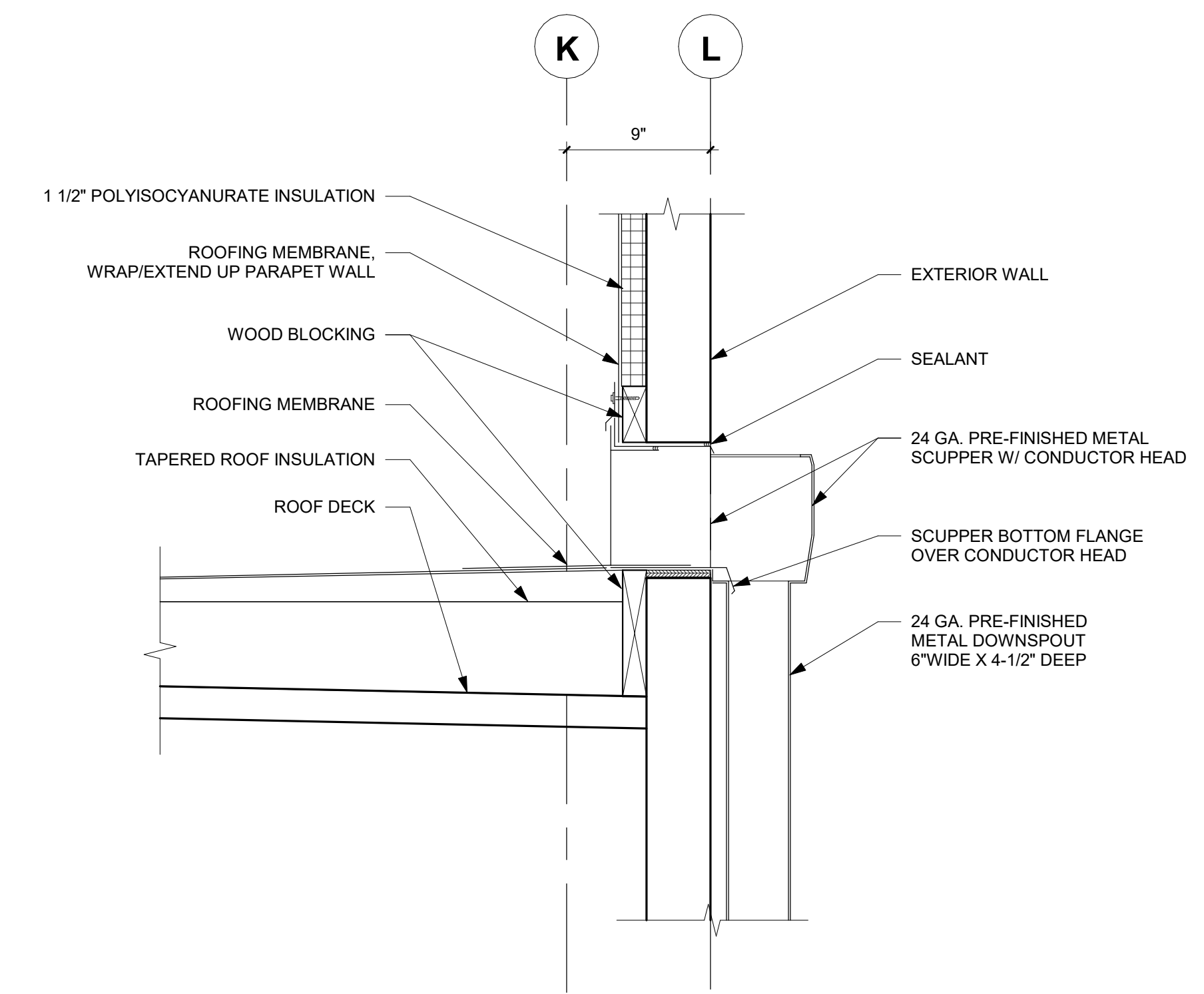
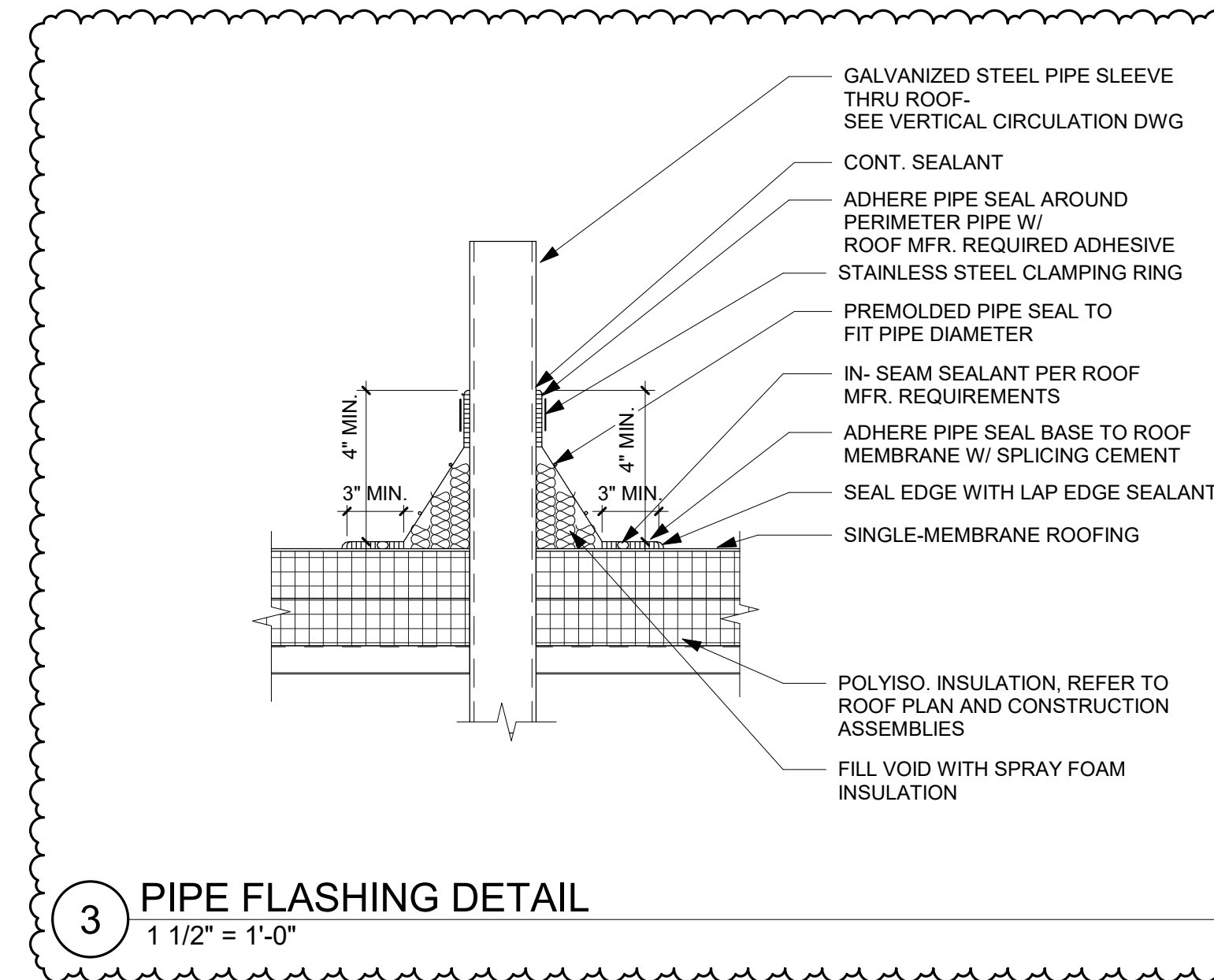
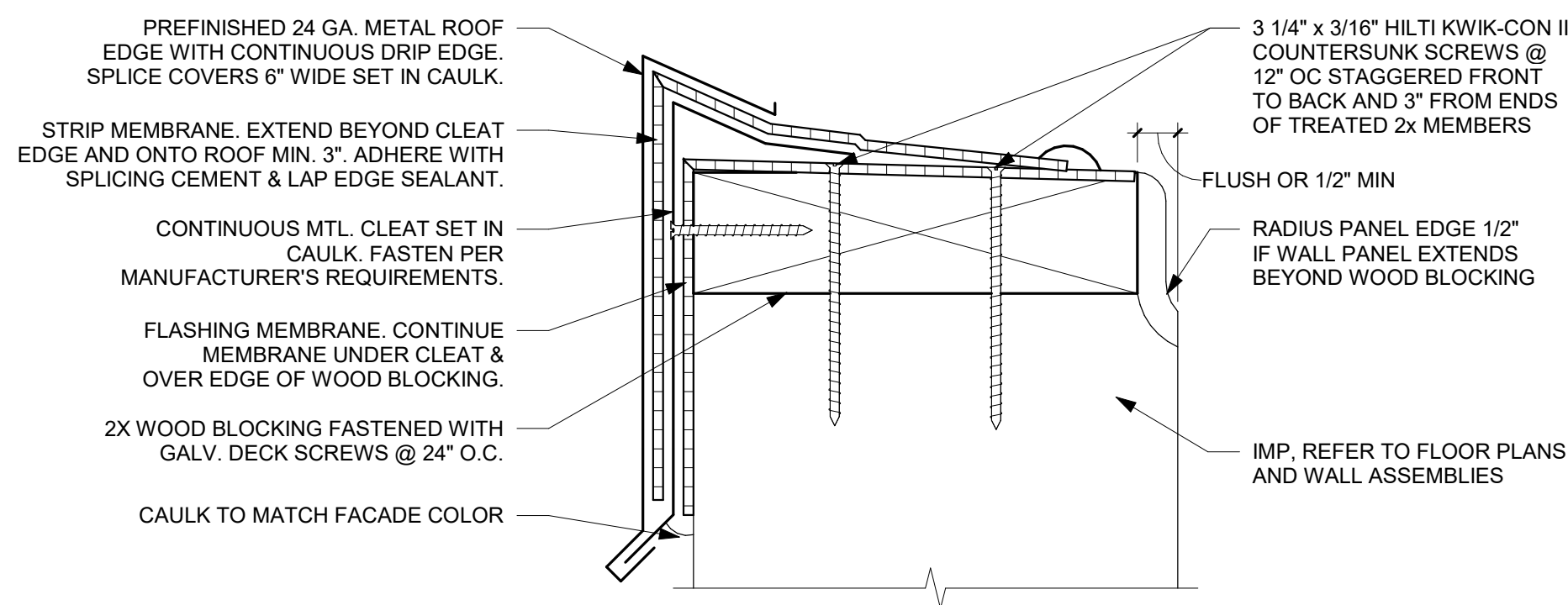
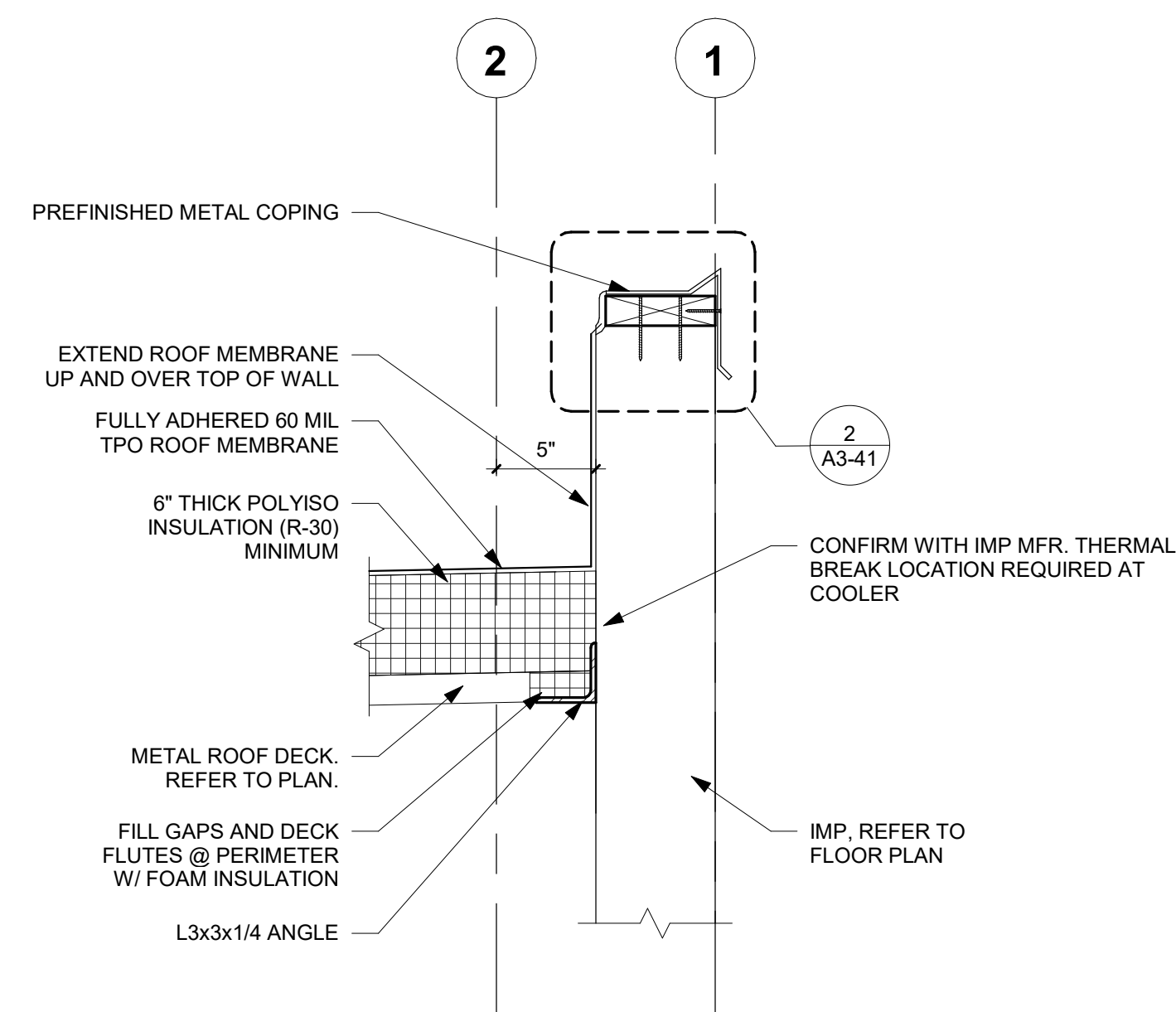
WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	Author
DESIGNED BY	Designer
REVIEWED BY	Checker
ORIGINAL ISSUE DATE	MM/DD/YY
CLIENT PROJECT NO.	

TITLE
WALL DETAILS

SHEET
A3-31



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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MAZ

PROJECT NO. 22-26670

FILE NAME

DRAWN BY PES

DESIGNED BY PES

REVIEWED BY MAC

ORIGINAL ISSUE DATE 05/27/2022

CLIENT PROJECT NO.

TITLE

ROOF DETAILS

SHEET

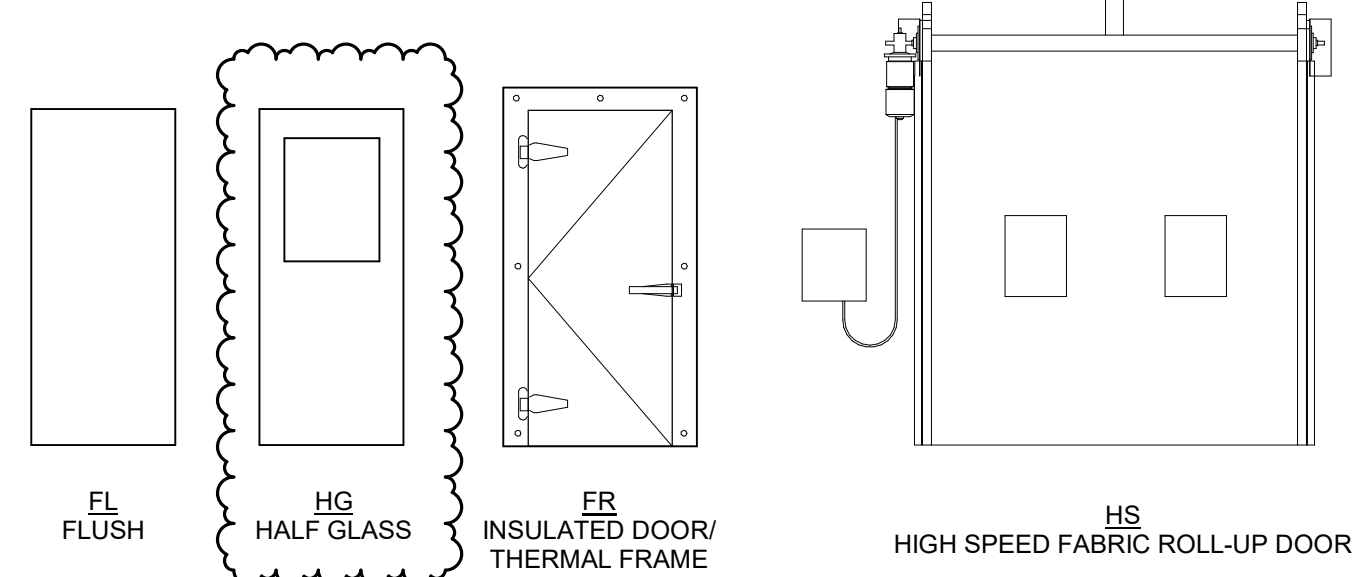
A3-41

REFERENCE SCALE

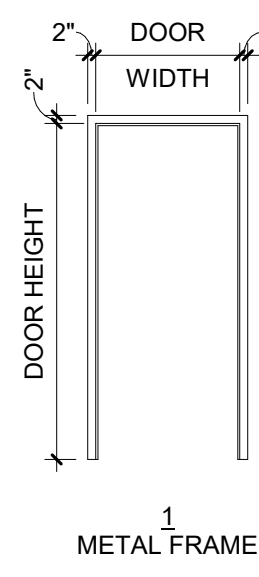
1" = 1'

0 1/4" 1/2" 1" 2"

DOOR TYPES



FRAME TYPES

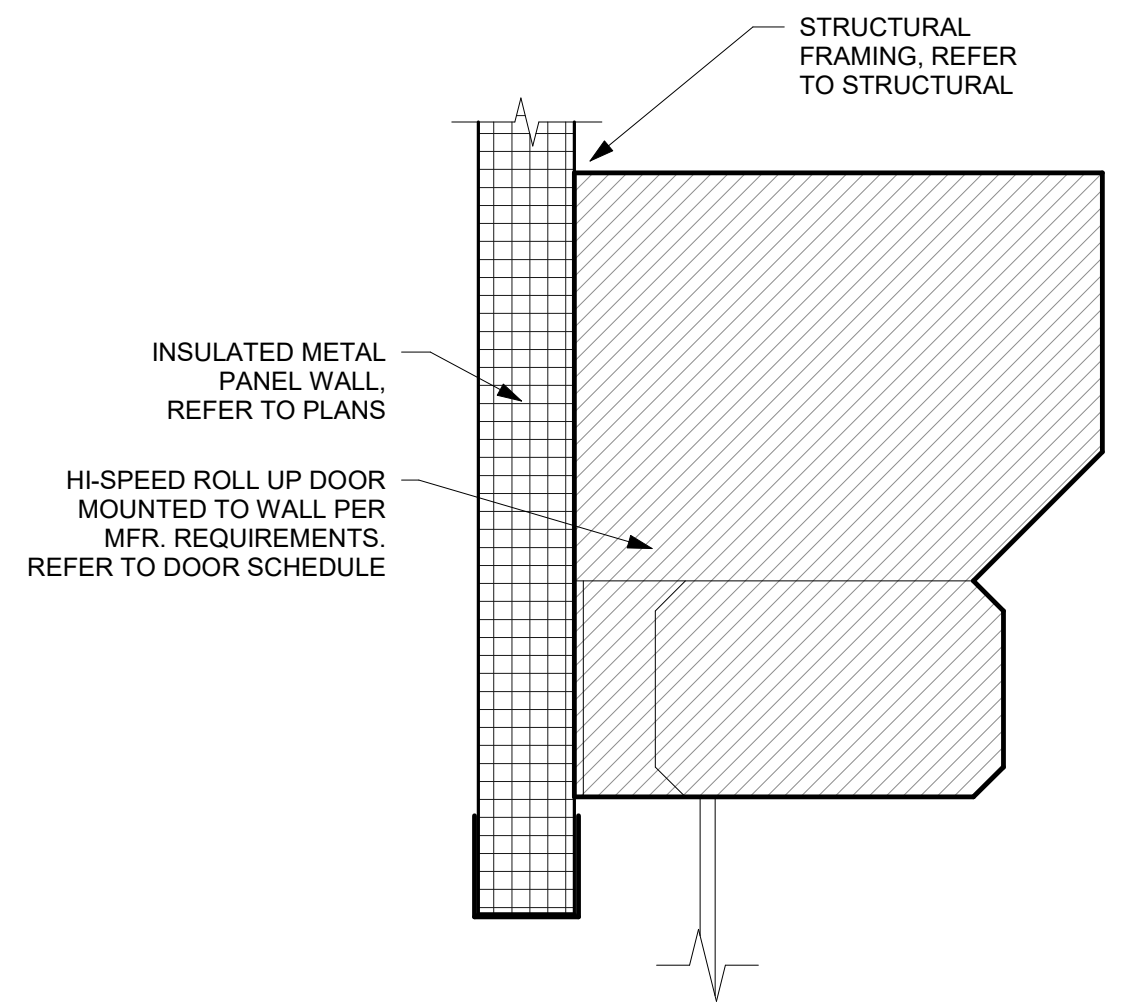


DOOR SCHEDULE										
MARK	ROOM NAME	WIDTH	HEIGHT	DOOR TYPE	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HARDWARE GROUP	FIRE RATING	COMMENTS
101A	COOLER AND PALLET WRAPPING	3'-0"	7'-1"	FR	INSULATED STEEL	-	HOLLOW METAL	1		INTERIOR EXIT HARDWARE ONLY. DOOR AND FRAME TO HAVE GALVANIZED FINISH.
101B	COOLER AND PALLET WRAPPING	8'-2"	13'-6"	HS	FABRIC	-	-	-		NON INSULATED ROLL-UP. MOTOR POWER TO BE COORDINATED BY ELECTRICAL.
101C	COOLER AND PALLET WRAPPING	3'-0"	7'-0"	HG	HOLLOW METAL	1	HOLLOW METAL	2		DOOR AND FRAME TO HAVE GALVANIZED FINISH.
102A	PENTHOUSE	3'-0"	7'-0"	FL	INSULATED STEEL	1	HOLLOW METAL	4		DOOR AND FRAME TO HAVE GALVANIZED FINISH.
103A	DRY STORAGE	3'-0"	7'-0"	HG	HOLLOW METAL	1	HOLLOW METAL	3		DOOR AND FRAME TO HAVE GALVANIZED FINISH.

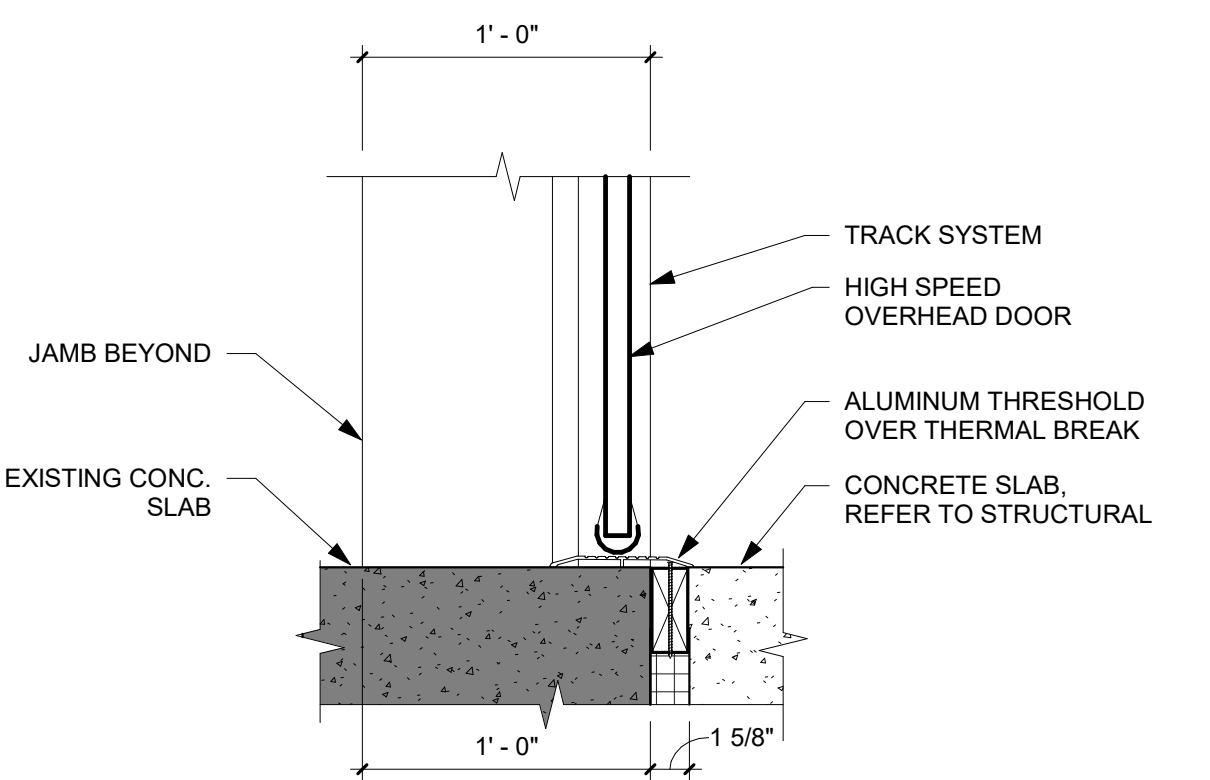
HARDWARE GROUP 1	HARDWARE GROUP 2	HARDWARE GROUP 3	HARDWARE GROUP 4
- 3 EA HINGE	- 3 EA HINGE	- 3 EA HINGE	- 3 EA HINGE
- 1 EA FIRE EXIT HARDWARE	- 1 EA PASSAGE SET	- 1 EA FIRE EXIT HARDWARE	- 1 EA FIRE EXIT HARDWARE
- 1 EA SURFACE CLOSER	- 1 EA SURFACE CLOSER	- 1 EA SURFACE CLOSER	- 1 EA SURFACE CLOSER
- 2 EA KICK PLATE	- 2 EA KICK PLATE	- 1 EA DOOR SWEEP	- 2 EA KICK PLATE
- 1 EA WEATHERSTRIP	- 1 EA DOOR SWEEP	- 2 EA KICK PLATE	- 1 EA WEATHERSTRIP
- 1 EA RAIN DRIP	- 1 EA THRESHOLD		- 1 EA RAIN DRIP
- 1 EA DOOR SWEEP			- 1 EA DOOR SWEEP
- 1 EA THRESHOLD			- 1 EA THRESHOLD (ELECTRIC STRIKE)

SHEET NOTES

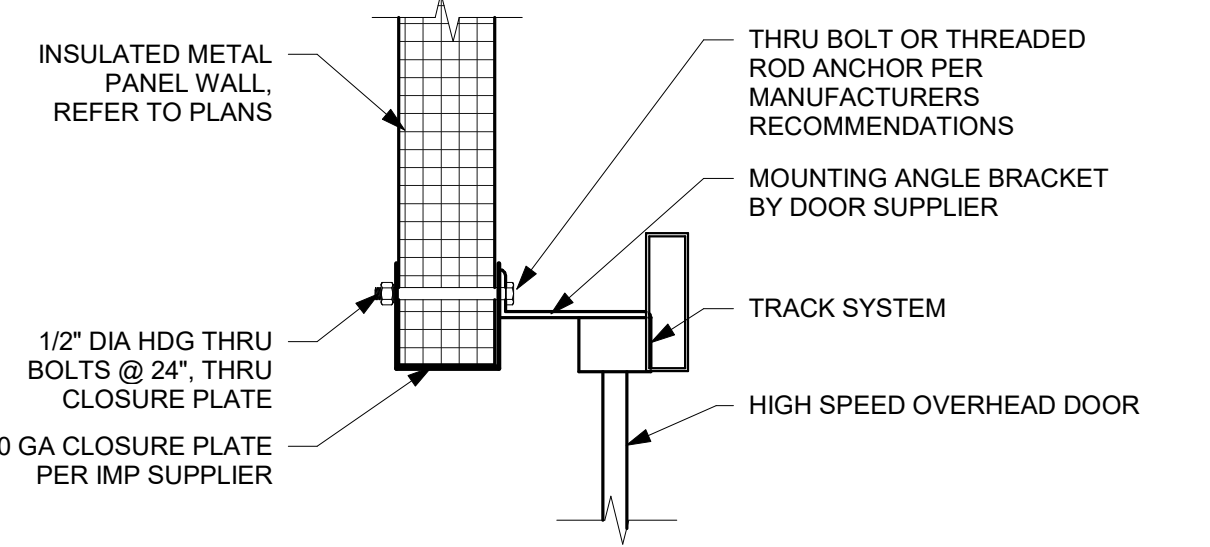
- REFER TO WALL TYPE THICKNESS FOR HOLLOW METAL DOOR FRAME THROAT WIDTH.
- ALL HOLLOW METAL DOORS & FRAMES TO BE PAINTED.
- DOORS WITH TAG "EX" SHOWN ON FLOOR PLAN ARE EXISTING DOORS THAT ARE TO REMAIN. NO WORK, UNLESS NOTED OTHERWISE.
- FRAME MANUFACTURER SHALL COORDINATE LOCATIONS OF ALL CONCEALED CONDUIT AND J-BOXES REQUIRED FOR SECURITY SYSTEM HARDWARE PRIOR TO MANUFACTURING OF HOLLOW METAL FRAMES AND COORDINATE WITH SECURITY HARDWARE AND DEVICES.
- REFER TO STRUCTURAL FRAMING ELEVATIONS AT NEW OPENINGS IN NEW AND EXISTING WALLS.



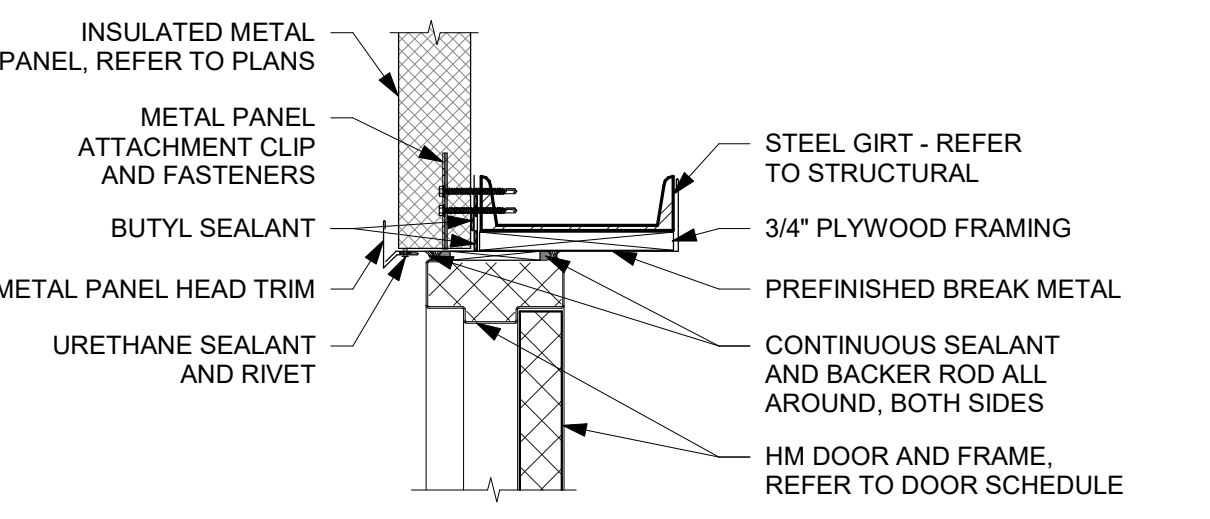
1 HIGH SPEED OVERHEAD DOOR HEAD @ IMP
1 1/2" = 1'-0"



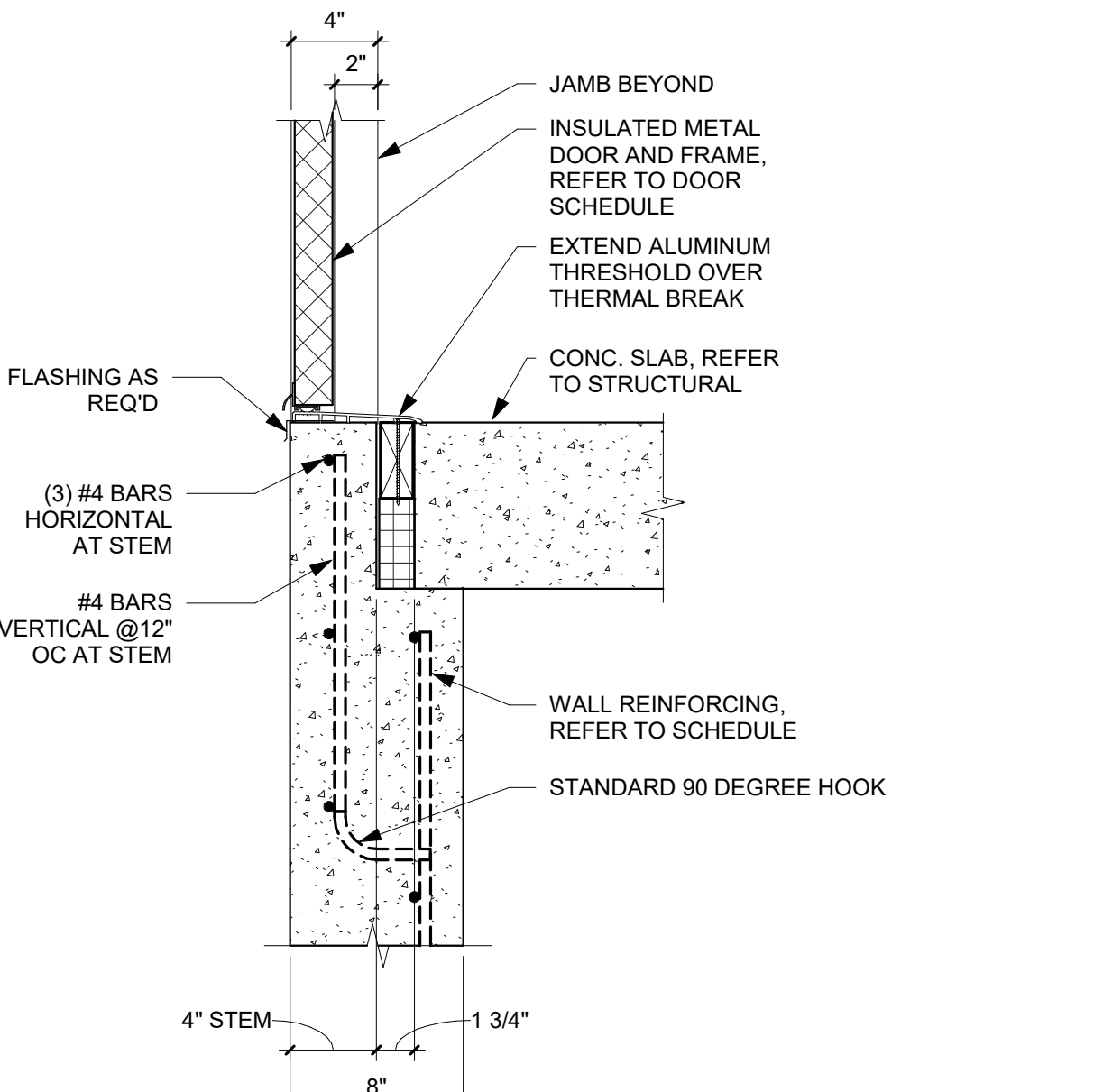
2 HIGH SPEED OVERHEAD DOOR SILL DETAIL @ IMP
1 1/2" = 1'-0"



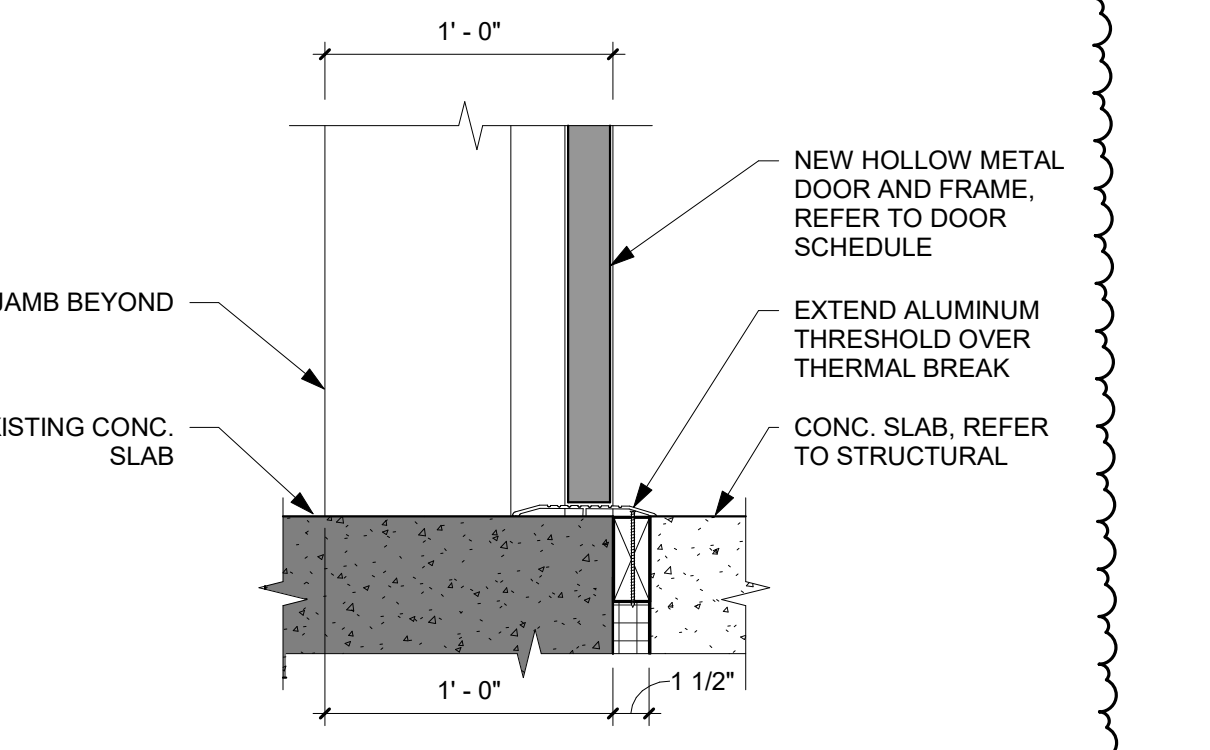
3 HIGH SPEED OVERHEAD DOOR JAMB @ IMP
1 1/2" = 1'-0"



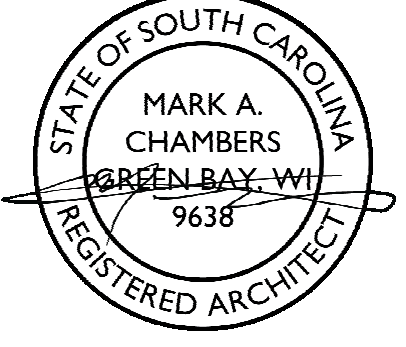
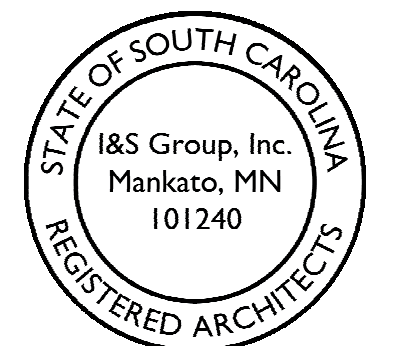
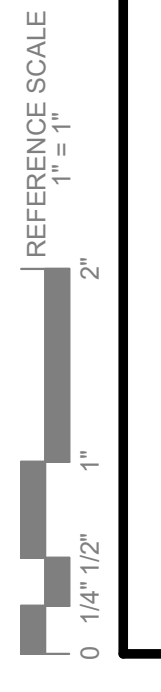
4 HM DOOR HEAD AT IMP
1 1/2" = 1'-0"



5 FREEZER DOOR SILL @ EXIT STAIR
1 1/2" = 1'-0"



6 HM DOOR SILL @ EXISTING IMP
1 1/2" = 1'-0"



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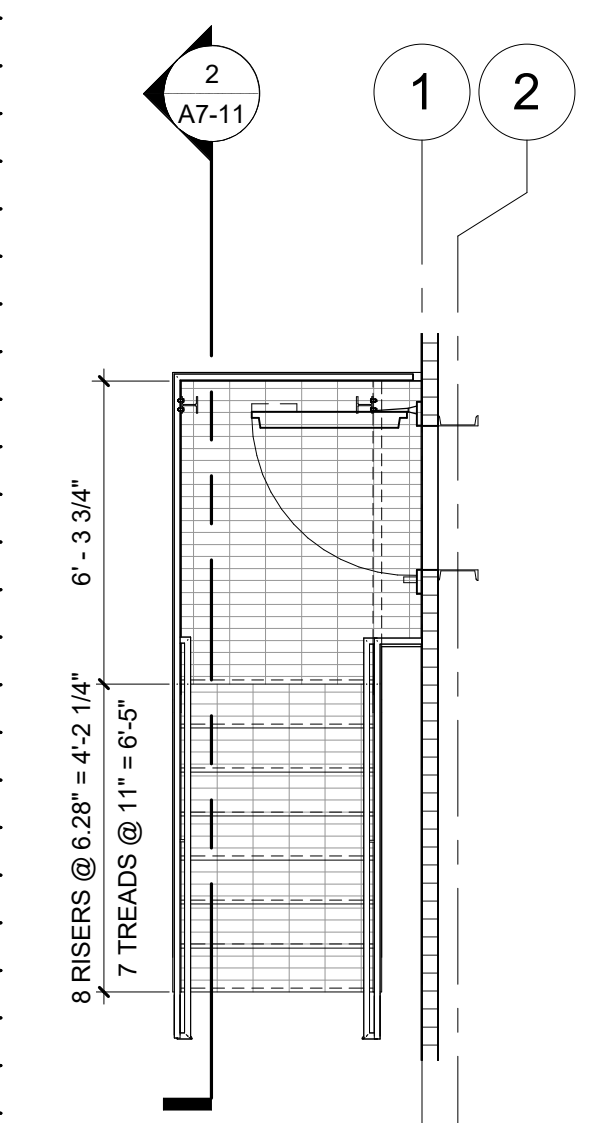
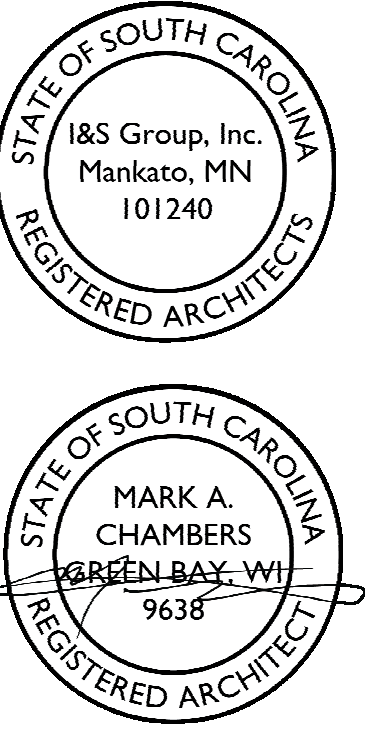
PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MAZ

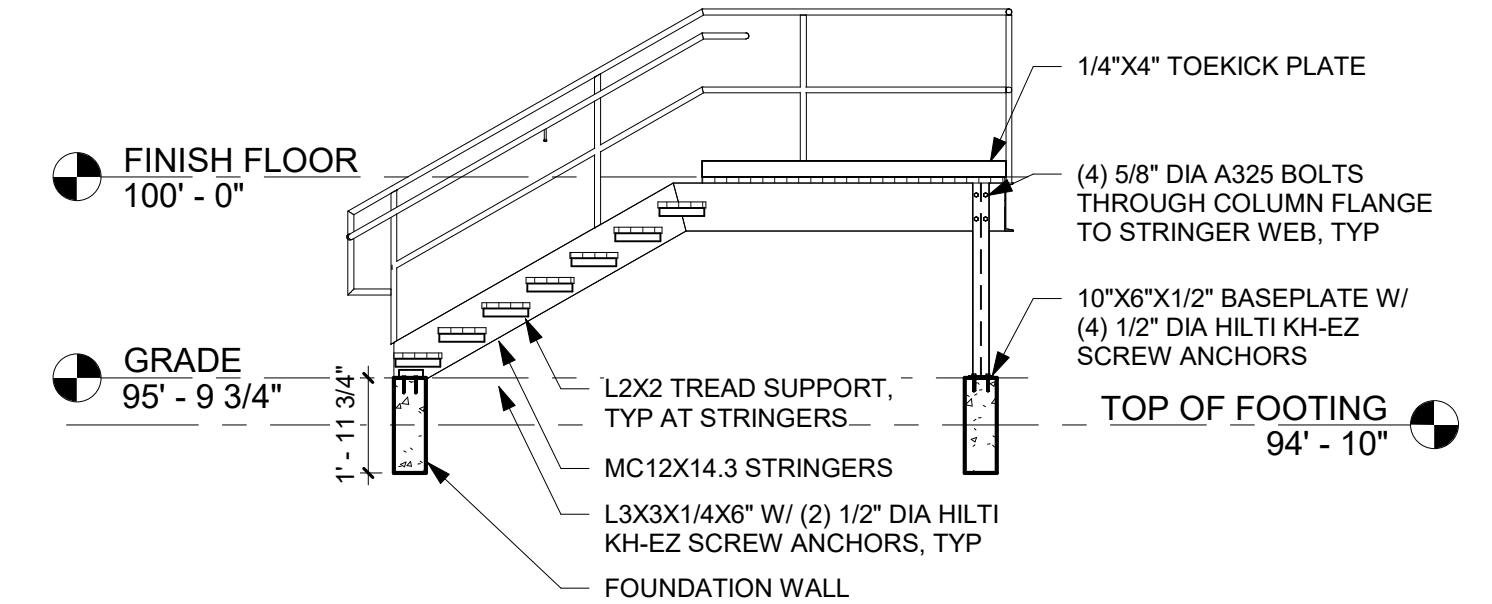
PROJECT NO. 22-26670
FILE NAME
DRAWN BY PES
DESIGNED BY PES
REVIEWED BY MAC
ORIGINAL ISSUE DATE 05/27/2022
CLIENT PROJECT NO.

TITLE
DOOR SCHEDULE, DOOR AND FRAME TYPES

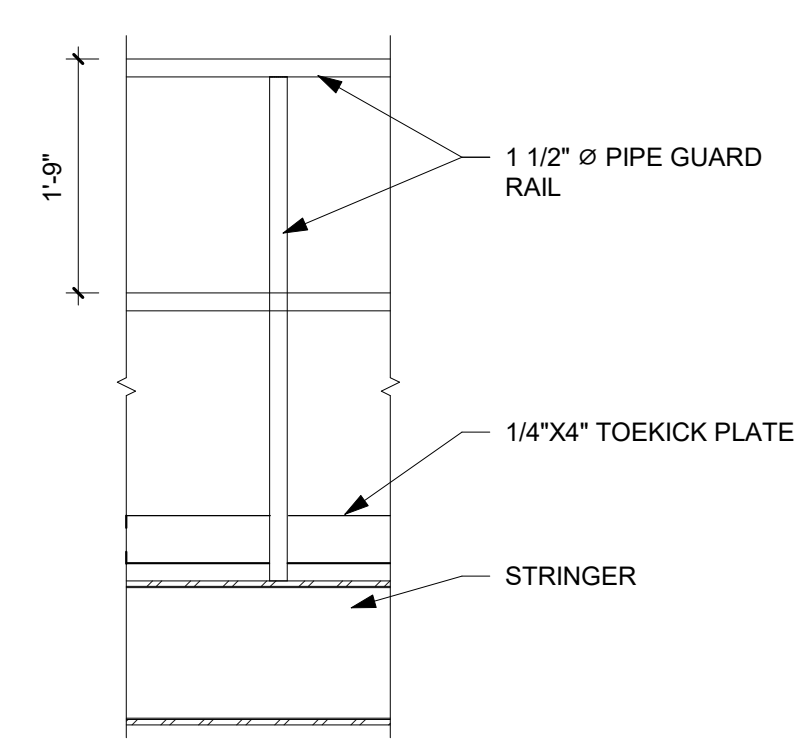
SHEET
A4-11



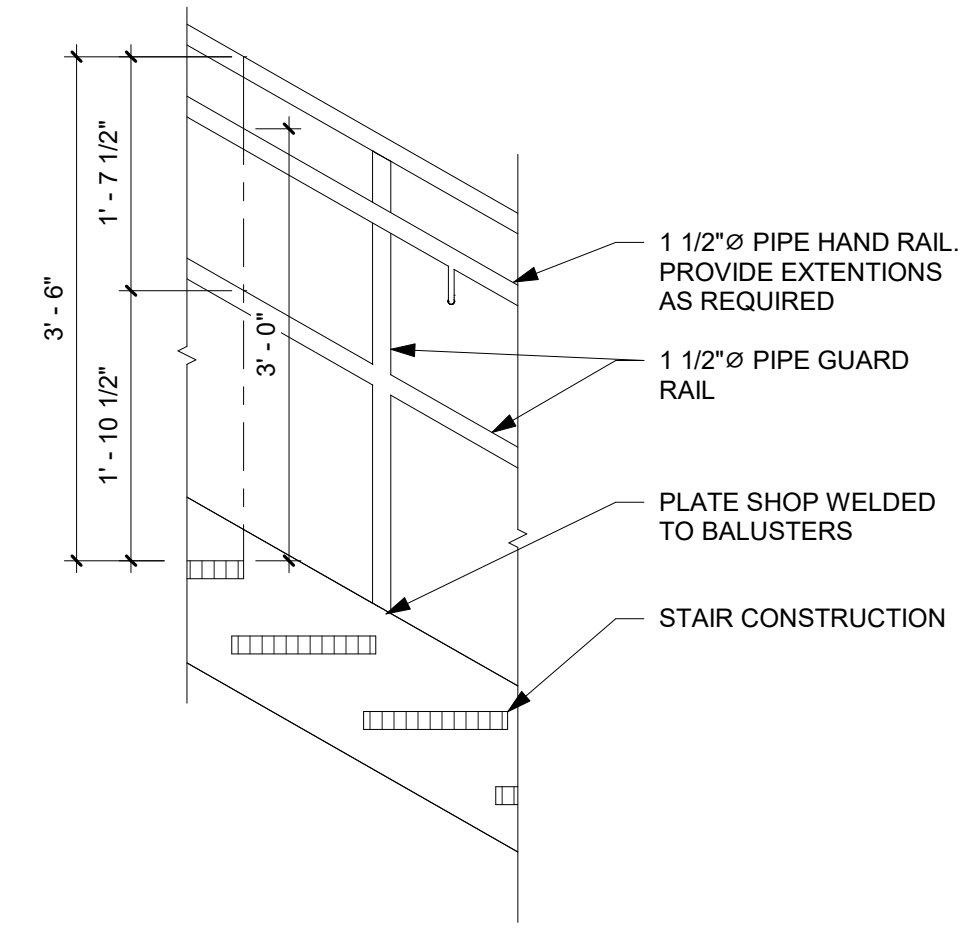
1 STAIR AT COOLER
1/4" = 1'-0"



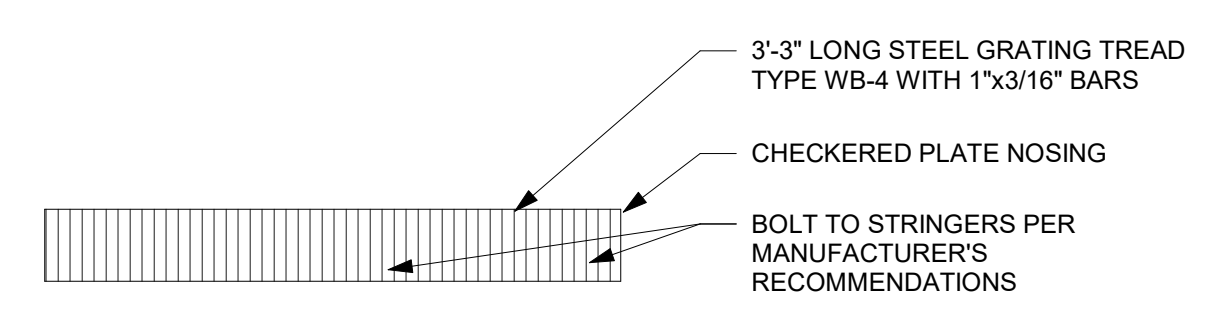
2 EXTERIOR STAIR SECTION
1/4" = 1'-0"



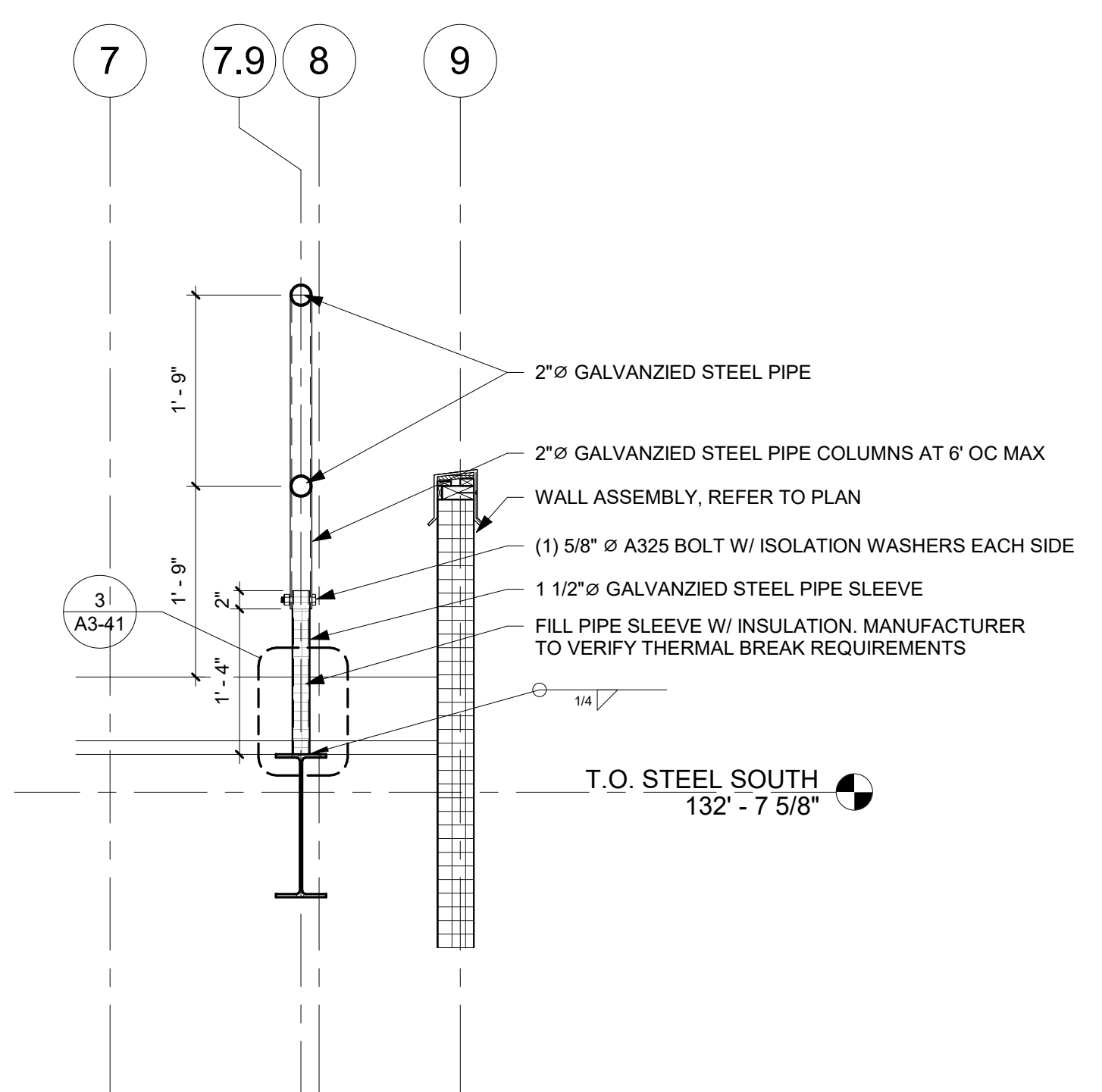
3 RAILINGS - LANDING AND PLATFORMS
3/4" = 1'-0"



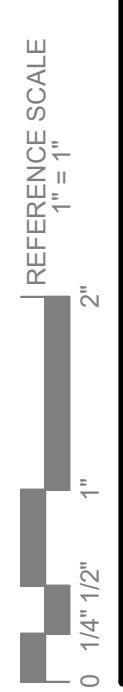
4 RAILINGS - STAIRS
3/4" = 1'-0"



5 TYPICAL TREAD
3" = 1'-0"



6 GUARDRAIL DETAIL
3/4" = 1'-0"



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PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MSZ

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	PES
DESIGNED BY	PES
REVIEWED BY	MAC
ORIGINAL ISSUE DATE	05/27/2022
CLIENT PROJECT NO.	

TITLE
ENLARGED VERTICAL CIRCULATION PLANS AND SECTIONS



COMPONENTS AND CLADDING WIND PRESSURES (PSF)						
ROOF TYPE	ZONE	TRIBUTARY AREA				
		10 sf or smaller	20 sf	50 sf	100 sf	500 sf or greater
FLATHIP/GABLE (0° < θ < 7°)	1	+16.0 / -54.2	+16.0 / -50.6	+16.0 / -45.9	+16.0 / -42.3	+16.0 / -34.0
	1'	+16.0 / -31.1	+16.0 / -31.1	+16.0 / -31.1	+16.0 / -31.1	+16.0 / -21.1
	2	+16.0 / -71.5	+16.0 / -66.9	+16.0 / -60.8	+16.0 / -56.2	+16.0 / -45.6
	3	+16.0 / -97.5	+16.0 / -89.3	+16.0 / -76.1	+16.0 / -66.9	+16.0 / -45.6
	4	+31.1 / -33.7	+29.8 / -32.4	+27.9 / -30.5	+26.6 / -29.2	+23.4 / -26.0
HIP ROOF (7° < θ < 45°)	1	+16.0 / -54.2	+16.0 / -50.6	+16.0 / -45.9	+16.0 / -42.3	+16.0 / -34.0
	2	+16.0 / -97.5	+16.0 / -89.3	+16.0 / -76.1	+16.0 / -66.9	+16.0 / -45.6
	2e	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -
	2r	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -
	4	+31.1 / -33.7	+29.8 / -32.4	+27.9 / -30.5	+26.6 / -29.2	+23.4 / -26.0
GABLE ROOF (7° < θ < 45°)	1	+16.0 / -54.2	+16.0 / -50.6	+16.0 / -45.9	+16.0 / -42.3	+16.0 / -34.0
	2	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -
	2h	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -
	3r	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -
	3e	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -	+16.0 / -
GABLE ROOF (7° < θ < 45°)	4	+31.1 / -33.7	+29.8 / -32.4	+27.9 / -30.5	+26.6 / -29.2	+23.4 / -26.0
	5	+31.1 / -41.5	+29.8 / -38.8	+27.9 / -35.1	+26.6 / -32.4	+23.4 / -26.0

NOTES:

- PRESSURE SHOWN ARE APPLIED NORMAL TO THE SURFACE.
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
- FOR HIP ROOFS WITH θ < 25°, ZONE 3 SHALL BE TREATED AS ZONE 2e AND 2r.
- REFER TO GENERAL NOTES FOR INFORMATION REGARDING GOVERNING BUILDING CODE.
- REFER TO FIGURE BELOW FOR ZONE DEFINITIONS.
- LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS NOT SHOWN.
- IF OVERHANGS EXIST, THE LESSER HORIZONTAL DIMENSION OF THE BUILDING SHALL NOT INCLUDE ANY OVERHANG DIMENSION, BUT THE EDGE DISTANCE, a, SHALL BE MEASURED FROM THE OUTSIDE EDGE OF THE OVERHANG.

DESIGN LOADS CRITERIA

- A. CODES USED:**
- 2018 SOUTH CAROLINA BUILDING CODE
 - 2018 INTERNATIONAL BUILDING CODE
 - 2016 AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD 7 (ASCE 7-16)
- B. RISK CATEGORY: II**
- C. WIND LOAD CRITERIA:**
- BASIC DESIGN WIND SPEED, V = 115 MPH (3 SECOND GUST)
 - ALLOWABLE STRESS DESIGN WIND SPEED, V_{AD} = 90 MPH (3 SECOND GUST)
 - WIND LOAD EXPOSURE: C
 - INTERNAL PRESSURE COEFFICIENT: +, - 0.18 (ENCLOSED BUILDING)
 - WIND TOPOGRAPHIC FACTOR: K_{zt} = 1.0
 - C & D WIND WALL PRESSURE: REFER TO COMPONENT AND CLADDING WIND PRESSURE TABLE
 - WIND NET UPLIFT: 15 PSF (NOMINAL)
- D. SNOW LOAD CRITERIA:**
- GROUND SNOW LOAD, P_s = 10 PSF
 - FLAT-ROOF SNOW LOAD (BALANCED), P_f = 12.7 PSF
 - SNOW LOAD IMPORTANCE FACTOR, I_s = 1.0
 - SLOPE FACTOR, C_d = 1.0
 - THERMAL FACTOR, C_t = 1.1
 - SNOW EXPOSURE FACTOR, C_e = 1.0
- E. EARTHQUAKE LOAD CRITERIA**
- SEISMIC IMPORTANCE FACTOR: I_e = 1.0
 - MAPPED SPECTRAL RESPONSE ACCELERATIONS:
 - S_s = 34.7% g
 - S₁ = 11.4% g
 - SOIL SITE CLASS: C
 - SPECTRAL RESPONSE COEFFICIENT:
 - S_{DS} = 0.301
 - S_{1S} = 0.114
 - SEISMIC DESIGN CATEGORY = B
 - SEISMIC FORCE RESISTING SYSTEM: STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DESIGNED FOR SEISMIC RESISTANCE
 - SEISMIC RESPONSE COEFFICIENT, C_s = 0.097
 - RESPONSE MODIFICATION FACTOR, R = 3
 - OVER-STRENGTH FACTOR, Ω = 1.0
 - ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL-FORCE ANALYSIS

NOTATION

a = 10% OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF EAST HORIZONTAL DIMENSION OR 3' (0.9m)

EXCEPTION: FOR BUILDINGS WITH θ = 0° TO 7° AND A LEAST HORIZONTAL DIMENSION GREATER THAN 300' (90m), DIMENSION a SHALL BE LIMITED TO A MAXIMUM OF 0.8 h

h = MEAN ROOF HEIGHT, IN FT (m), EXCEPT THAT GAVE HEIGHT SHALL BE USED FOR ROOF ANGLES < 10°

θ = ANGLE OF PLANE OF ROOF FROM HORIZONTAL (IN DEGREES)

SPECIAL INSPECTIONS

- A. SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1704 AND 1705. THE SPECIAL INSPECTOR SHALL BE EMPLOYED BY THE OWNER, SHALL BE THOROUGHLY KNOWLEDGEABLE OF IBC SPECIAL INSPECTION REQUIREMENTS AND SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL. THE CONTRACTOR SHALL CONTACT THE SPECIAL INSPECTOR DURING APPROPRIATE PHASES OF CONSTRUCTION SO THAT INSPECTIONS CAN BE MADE IN A TIMELY MANNER. THE SPECIAL INSPECTOR SHALL SUBMIT WRITTEN INSPECTION REPORTS TO THE ENGINEER OF RECORDS OFFICE, WITHIN 3 WORKING DAYS OF EACH INSPECTION. ANY PROBLEMS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. THE FOLLOWING ITEMS WILL REQUIRE SPECIAL INSPECTION.
- STEEL
 - SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WORK DONE IN AN APPROVED FABRICATING SHOP. THE STEEL FABRICATOR MUST BE REGISTERED AND APPROVED BY THE BUILDING OFFICIAL TO PERFORM THE WORK WITHOUT SPECIAL INSPECTIONS. (IBC 1704.2.5.2)
 - HIGH STRENGTH BOLTING: CONTINUOUS INSPECTIONS ARE REQUIRED FOR SLIP-CRITICAL CONNECTIONS. PERIODIC INSPECTIONS ARE REQUIRED FOR BEARING-TYPE CONNECTIONS.
 - FIELD WELDING: CONTINUOUS INSPECTIONS ARE REQUIRED FOR COMPLETE AND PARTIAL PENETRATION GROOVE WELDS, MULTI-PASS FILLET WELDS AND SINGLE-PASS FILLET WELDS GREATER THAN 5/16". PERIODIC INSPECTIONS ARE REQUIRED FOR FLOOR AND ROOF DECK WELDS AND SINGLE-PASS FILLET WELDS SMALLER THAN OR EQUAL TO 5/16". CORRECT WELD FILLER MATERIAL SHALL BE VERIFIED IN ALL CASES.
 - STEEL ERECTION: PERIODIC INSPECTIONS SHALL BE MADE TO VERIFY COMPLIANCE WITH THE DESIGN DRAWINGS.
 - MATERIALS: THE STEEL MANUFACTURERS CERTIFIED MILL TEST REPORTS SHALL BE SUBMITTED TO THE SPECIAL INSPECTOR OR TO THE ENGINEER OF RECORD.
 - CONCRETE
 - REINFORCEMENT: REINFORCING STEEL SHALL BE INSPECTED ON A PERIODIC BASIS. WELDING OF REINFORCEMENT SHALL BE CONTINUOUSLY INSPECTED. ONLY ASTM A706 REINFORCEMENT MAY BE WELDED.
 - SAMPLING AND TESTING: CONTINUOUS INSPECTIONS SHALL BE PROVIDED DURING SLUMP TESTS AND WHEN DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS.
 - CONCRETE PLACEMENT: CONTINUOUS INSPECTION REQUIRED.
 - COLD AND HOT WEATHER CONCRETING: PERIODIC INSPECTION OF COMPLIANCE IS REQUIRED.
 - MASONRY - LEVEL B QUALITY ASSURANCE
 - BEGINNING OF CONSTRUCTION: PERIODIC INSPECTION SHALL BE MADE OF MORTAR PROPORTIONS, CONSTRUCTION OF MORTAR JOINTS AND REINFORCEMENT LOCATION AND CONNECTORS.
 - ONGOING CONSTRUCTION: PERIODIC INSPECTION SHALL BE PROVIDED TO VERIFY SIZE AND LOCATION OF STRUCTURAL ELEMENTS, SIZE AND LOCATION OF ANCHORS, SIZE AND TYPE OF REINFORCEMENT AND COMPLIANCE WITH HOT OR COLD WEATHER REQUIREMENTS.
 - GROUTING: PERIODIC INSPECTION SHALL BE PROVIDED TO VERIFY THAT THE GROUT SPACE IS PROPERLY POSITIONED AND SITE PREPARED GROUT IS PROPERLY PROPORTIONED. CONTINUOUS INSPECTION IS REQUIRED OF GROUT PLACEMENT.
 - TEST SPECIMENS: CONTINUOUS INSPECTION SHALL BE MADE DURING PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND PRISMS.
 - SOILS
 - THE SPECIAL INSPECTOR SHALL DETERMINE COMPLIANCE WITH THE SOIL REPORT FOR SITE PREPARATION, FILL PLACEMENT AND DENSITY TESTS.

FOOTINGS AND FOUNDATIONS

- A. SOIL BEARING DESIGN VALUE:
- 3000 PSF PER SAME PROJECT NO. 22610156, REPORT DATED APRIL 19, 2022.
 - BEARING VALUE TO BE VERIFIED IN FIELD BY GEOTECHNICAL ENGINEER.
- B. PROTECT FOUNDATION EXCAVATIONS FROM FROST; DO NOT PLACE CONCRETE ON FROZEN GROUND.
- C. FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF LOOSE MATERIAL AND STANDING WATER AND SHALL BE CHECKED AND APPROVED BY THE ENGINEER BEFORE THE PLACEMENT OF ANY CONCRETE.
- D. DESIGN FROST PENETRATION DEPTH: 42 INCHES (HEATED) OR 60 INCHES (UNHEATED)
- E. MINIMUM OF 6" COMPACTED GRANULAR SUBGRADE BELOW SLABS.

FOOTINGS AND FOUNDATIONS (CONTINUED)

MATERIAL COMPACTION CRITERIA	
LOCATION	MINIMUM RELATIVE COMPACTION PERCENTAGE (ASTM D698 STANDARD PROCTOR DENSITY (SPD))
1'-0" BELOW FOUNDATION AND SLAB SUBGRADE ELEVATIONS	98%
ABOVE BOTTOM OF FOUNDATIONS AND BELOW SLAB SUBGRADE ELEVATIONS	95%
BELOW EXTERIOR SLAB, WITHIN 1'-0" OF SUBGRADE ELEVATIONS	98%
BELOW EXTERIOR SLAB, MORE THAN 1'-0" BELOW SUBGRADE ELEVATIONS	95%

CONCRETE

- A. CONCRETE SHALL BE STANDARD WEIGHT MIX UNLESS NOTED OTHERWISE AND MEET THE FOLLOWING CRITERIA:
- | LOCATIONS | f _c @ 28 DAYS | AIR ENTRAINMENT | MAX. WATER/CEMENT RATIO |
|-------------------------|--------------------------|-----------------|-------------------------|
| FOOTINGS / FOUNDATIONS | 3000 PSI | +16.0 / - | 0.55 |
| FLOORS ON GRADE | 4000 PSI | +16.0 / - | 0.55 |
| COLUMNS | 4000 PSI | +16.0 / - | 0.55 |
| EXTERIOR SLABS ON GRADE | 4500 PSI | 6% ± 1.5% | 0.45 |
| EXPOSED EXTERIOR WALLS | 4500 PSI | 6% ± 1.5% | 0.45 |
- B. CEMENT SHALL CONFORM TO ASTM C150, TYPE I / I.
- C. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C94.
- D. CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301 (LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", EXCEPT AS MODIFIED BY THESE NOTES.
- E. ADMIXTURES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER. ADMIXTURES SHALL COMPLY WITH ASTM C494 AND BE OF A TYPE THAT INCREASES THE WORKABILITY OF THE CONCRETE, BUT SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT (CALCIUM CHLORIDE SHALL NOT BE USED).
- F. CONTRACTOR SHALL SUBMIT MIX DESIGNS FOR APPROVAL 10 DAYS PRIOR TO FABRICATION AND INSTALLATION. ALL CONCRETE MIXES SHALL BE DESIGN AND CERTIFIED BY A MATERIALS TESTING COMPANY.
- G. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC. SHALL BE FORMED WITH A 3/4" CHAMFER UNLESS DETAILED OR NOTED OTHERWISE.
- H. PLACE VAPOR RETARDER OR VAPOR BARRIER DIRECTLY BELOW FLOOR SLAB.
- I. CONCRETE FLOOR SHALL BE CURED IN ACCORDANCE WITH ASTM C309. CONCRETE FLOOR SHALL BE PROTECTED FROM MOISTURE LOSS FOR A MINIMUM OF 14 DAYS, USING AN APPROVED SHEET MEMBRANE IN ACCORDANCE WITH C717.
- J. FLOOR FLATNESS AND LEVELNESS TOLERANCES:
- UNLESS NOTED OTHERWISE, FLOORS SHALL CONFORM TO THE FOLLOWING SURFACE PROFILE TOLERANCES:
 - FLOOR FLATNESS NUMBER (F_n):
 - SPECIFIED OVERALL VALUE = 20
 - MINIMUM LOCAL VALUE = 15
 - FLOOR LEVELNESS NUMBER (F_l):
 - SPECIFIED OVERALL VALUE = 20
 - MINIMUM LOCAL VALUE = 15

- K. FLOOR TOLERANCE (F_n AND F_l) MEASUREMENTS SHALL BE TESTED IN ACCORDANCE WITH ASTM E 1155. ACTUAL OVERALL F_n NUMBERS SHALL BE CALCULATED USING THE INFERIOR / SUPERIOR AREA METHOD.
- L. CORRECT DEFECTIVE SLABS BY GRINDING OR REMOVING AND REPLACING DEFECTIVE WORK. RE-MEASURE CORRECTED AREAS BY THE SAME PROCESS.

ANCHOR BOLTS

- A. ALL ANCHOR RODS SHALL BE SUPPLIED AND INSTALLED BY THE CONCRETE CONTRACTOR, UNLESS NOTED OTHERWISE.
- B. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 HEX HEAD, UNLESS NOTED OTHERWISE. NUTS SHALL BE ASTM A563 GRADE A HEAVY HEX. OVER-SIZED PLATE WASHERS SHALL BE ASTM A36.
- C. ALL ANCHOR RODS SHALL BE SET WITH TEMPLATES.
- D. POST-INSTALLED ANCHORS SHALL BE ADHESIVE ANCHORING SYSTEM PROVIDED AND INSTALLED BY FRAMING CONTRACTOR. ADHESIVE ANCHORS SHALL BE HILTI HIT-HY 200 ADHESIVE ANCHOR SYSTEM OR APPROVED ALTERNATE. ANCHORS SHALL BE HILTI HAS-E-THREADED ROD CONFORMING TO ISO 898-1 CLASS 8.8 OR SHALL BE MADE FROM ALL-THREADED ROD CONFORMING TO ASTM A572 GRADE 60, OR APPROVED ALTERNATE, UNLESS NOTED OTHERWISE.

REINFORCING STEEL

- A. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
- B. MINIMUM DEVELOPMENT LENGTH OF REINFORCING BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.
- | CONCRETE STRENGTH f _c IN PSI | MINIMUM LENGTH FOR STANDARD UN-COATED BARS IN NORMAL WEIGHT CONCRETE | | | | | |
|---|--|-----------------|-------------|--|-----------------------------|-----------------------------|
| | DEVELOPMENT LENGTH (L _d) FOR STRAIGHT BARS (MIN. OF 12 INCHES) | | | FOR 90 DEGREE HOOKED BARS, HOOK DEVELOPMENT LENGTH | | |
| | TENSION CLASS A | TENSION CLASS B | COMPRESSION | #18, #14, & #11 AND SMALLER | #18, #14, & #11 AND SMALLER | #18, #14, & #11 AND SMALLER |
| 3000 | 44 Db | 56 Db | 57 Db | 71 Db | 30 Db | 22 Db |
| 3500 | 41 Db | 51 Db | 53 Db | 66 Db | 30 Db | 20 Db |
| 4000 | 38 Db | 47 Db | 49 Db | 62 Db | 30 Db | 19 Db |
| 4500 | 36 Db | 45 Db | 47 Db | 58 Db | 30 Db | 18 Db |
| 5000 | 34 Db | 42 Db | 44 Db | 55 Db | 30 Db | 17 Db |
- NOTE: Db = DIAMETER OF REINFORCEMENT. L_d = DEVELOPMENT LENGTH

- C. TYPICAL SPLICES: CLASS B AS DEFINED IN ACI 318, UNLESS NOTED OTHERWISE
- D. ADJUSTMENT FACTORS FOR STRAIGHT BARS IN TENSION
- LIGHTWEIGHT CONCRETE = 1.3.
 - EPOXY COATED = 1.2.
 - EPOXY COATED WITH COVER LESS THAN 3DB OR CLEAR SPACING LESS THAN 6 DB = 1.5.
 - HORIZONTAL "TOP" BARS WITH 12" OF CONCRETE CAST BELOW = 1.3.
 - EPOXY COATED HORIZONTAL "TOP" BARS WITH 12" OF CONCRETE CAST BELOW = NOT GREATER THAN 1.7.
- E. ADJUSTMENT FACTORS FOR STRAIGHT HOOKS IN TENSION
- LIGHTWEIGHT CONCRETE = 1.3.
 - EPOXY COATED = 1.2.
- F. REINFORCING STEEL SHALL BE PROVIDED WITH THE FOLLOWING AMOUNTS OF COVER FOR CAST-IN-PLACE CONCRETE UNLESS NOTED OTHERWISE.

MINIMUM CLEAR CONCRETE COVER FOR REINFORCING STEEL	
CONCRETE ON SOIL (DIRECT CONTACT)	CENTERED
SLAB ON GRADE	
WALLS, STRUCTURAL SLABS EXPOSED TO SOIL OR WEATHER	
#6 TO #18 REBAR	2"
#9 AND SMALLER REBAR	1 1/2"
WALLS, STRUCTURAL SLABS NOT EXPOSED TO EARTH OR WEATHER	
#11 AND SMALLER REBAR	3/4"
COLUMNS AND PIERS (COVER TO STIRRUPS AND TIES)	1 1/2"

- G. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, AND INSERTS SHALL BE SECURED IN POSITION WITH WIRE POSITIONERS, OR EQUAL, BEFORE PLACING CONCRETE OR GROUT.
- H. DOWELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE, AND SPACING AS VERTICAL WALL REINFORCING.
- I. CONTRACTOR SHALL SUBMIT REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL A MINIMUM OF 10 DAYS PRIOR TO FABRICATION AND INSTALLATION.
- J. BARS TO BE WELDED SHALL BE ASTM A706, GRADE 60. WELDING OF REINFORCING BARS SHALL CONFORM TO AWS D1.4.

STRUCTURAL STEEL

- A. SPECIFICATIONS:
- DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "STEEL CONSTRUCTION MANUAL", 14TH EDITION, BY THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, UNLESS NOTED OTHERWISE.
 - STEEL MATERIALS SHALL MEET THE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS, UNLESS NOTED OTHERWISE:
- | STRUCTURAL TYPE/SHAPE | ASTM DESIGNATION | MATERIAL STRENGTH |
|--|------------------|---|
| ANCHOR BOLTS | F1554 GRADE 36 | F _y = 36 KSI |
| W-SHAPE | A992 | F _y = 50 KSI |
| M, S, C, MC, AND L-SHAPES, PLATES AND BARS | A36 | F _y = 36 KSI |
| STAIR STEEL PLATE | A283 GRADE C | F _y = 30 KSI |
| STAIR SHEET STEEL | A653 GRADE C | F _y = 36 KSI |
| HP-SHAPE | A572 GRADE 50 | F _y = 50 KSI |
| PIPES | A53 GRADE B | F _y = 35 KSI |
| HSS RECTANGULAR | A500 GRADE B | F _y = 46 KSI |
| HSS ROUND | A500 GRADE B | F _y = 42 KSI |
| FASTENERS | A325N | F _{tv} = 48 KSI, F _{tu} = 90 KSI |
| | A325X | F _{tv} = 60 KSI, F _{tu} = 90 KSI |
| | A490N | F _{tv} = 60 KSI, F _{tu} = 113 KSI |
| | A490X | F _{tv} = 75 KSI, F _{tu} = 113 KSI |
| CONNECTION NUTS | A563 | F _u = 65 KSI |
| WASHERS | F436 | |
| WELDS | | |
| E70XX ELECTRODES | A233 | F _u = 70 KSI |
| COLD ROLLED E60XX ELECTRODES | A233 | F _u = 60 KSI |
| STEEL ANCHORS | A108 | F _u = 65 KSI |

- TWO COPIES OF CERTIFIED MILL TEST REPORTS ON ALL ASTM MATERIALS USED IN THIS WORK SHALL BE FURNISHED TO THE ENGINEER.
- ALL STAINLESS STEEL SHALL BE TYPE S30400/S30403 DUAL, CERTIFIED OR S30403 (S304L), UNLESS NOTED OTHERWISE.
- ALL ASTM A502 BOLTS EXPOSED TO EXTERIOR CONDITIONS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123. ASTM 490 BOLTS SHALL NOT BE GALVANIZED.
- CLEAR ALL EXTERIOR FIELD WELDS AND MEMBERS PER SSPC-SP3 AND PRIME PAINT WITH GRAY INORGANIC ZINC TO A 3.5 MIL THICKNESS.

- B. DESIGN STRESS:
- MINIMUM BEAM CONNECTIONS SHALL NOT BE SMALLER THAN THOSE LISTED IN PART 10 OF THE AISC MANUAL.
 - UNLESS DETAILED OTHERWISE, MAKE CONNECTIONS WITH E70XX ELECTRODES OR BOLTED WITH 3/4" A563 BOLTS IN BEARING-TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE (A325N).

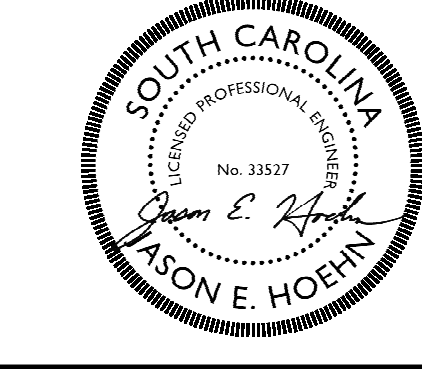
- C. WELDING:
- ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE.
 - WELDER CERTIFICATION PROCEDURES SHALL BE AS FOLLOWS:
 - ALL WELDERS SHALL BE CURRENTLY CERTIFIED AND REGISTERED BY THE LOCAL OFFICIALS AND/OR THE AMERICAN WELDING SOCIETY AND, IF REQUIRED, ALL WELDERS SHALL HAVE THEIR CERTIFICATION AVAILABLE TO THE ENGINEER.
 - ALL WELD FILLER METAL SHALL BE AWS E70XX WITH A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20FT-LB AT 0 DEG F, AS DETERMINED BY THE APPROPRIATE AWS AS CLASSIFICATION TEST METHOD OR MANUFACTURER CERTIFICATION, UNLESS NOTED OTHERWISE.
 - WELDS DESIGNATED AS DEMAND CRITICAL (DC) SHALL BE MADE WITH A FILLER METAL CAPABLE OF PROVIDING A MINIMUM CVN TOUGHNESS OF 20 FT-LB AT -20 DEG F AND 40 FT-LB AT A TEMPERATURE OF 70 DEG F AS DETERMINED BY THE MANUFACTURER'S CERTIFICATION, AISC 341-05 APPENDIX X, OR OTHER APPROVED METHOD. WELD FILLER METALS SHALL NOT BE USED FROM PACKAGING THAT HAS BEEN PUNCTURED OR TORN, OR IF THE MANUFACTURER'S RECOMMENDATIONS FOR EXPOSURE TIME OR DRYING PROCEDURES HAVE NOT BEEN FOLLOWED.
 - ALL BLT WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS, UNLESS NOTED OTHERWISE.
 - ALL GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) WELDS, UNLESS NOTED OTHERWISE.
 - WELDING PROCEDURE AND SEQUENCES SHALL BE PLANNED TO MINIMIZE WELD SHRINKAGE THAT COULD RESULT IN LAMELLAR TEARING.
 - FIELD WELDING WILL BE ALLOWED ONLY WHERE SHOWN ON THE DRAWINGS.
 - EXISTING AND NEW STEEL SURFACES TO BE WELDED SHALL BE CLEANED OR PAINT, GREASE, SCALE, OR OTHER FOREIGN MATERIAL REMOVED.
 - ALL FIELD WELDS SHALL BE WIRE BRUSHED AND CLEANED, THEN TOUCHED-UP PAINTED.

- D. MISCELLANEOUS METAL
- WORK INCLUDES LINTELS, STAIRS, PANS, HANDRAILS, GUARDRAILS, POSTS, ETC.
 - FABRICATION:
 - FABRICATE STAIRS WITH CLOSED RISERS AND TREADS OF METAL PAN CONSTRUCTION READY TO RECEIVE CONCRETE, UNLESS NOTED OR DETAILED OTHERWISE IN THE CONSTRUCTION DOCUMENTS.
 - FLOOR LANDINGS WITH SHEET STEEL STOCK.
 - FORM STRINGERS WITH STEEL PLATE OR CHANNELS.
 - FIT AND SHOP ASSEMBLE HANDRAIL COMPONENTS WHERE POSSIBLE. GRIND EXPOSED JOINTS FLUSH AND SMOOTH.
 - SHOP PRIME WITH TWO COATS.

- E. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE CALCULATIONS THAT SUMMARIZE ANY CONNECTION REVIEWS.

STEEL DECKING AND ACCESSORIES

- A. QUALITY ASSURANCE AND SHOP DRAWINGS:
- DESIGN METAL DECKING IN ACCORDANCE WITH SDI DESIGN MANUAL FOR ROOF DECKS.
 - DESIGN DECK LAYOUT, SPANS, FASTENERS, AND JOINTS UNDER DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER.
 - SUBMIT SHOP DRAWINGS.
- B. MATERIALS:
- METAL DECK SHALL BE AS INDICATED ON THE CONSTRUCTION DOCUMENT DETAILS.
 - FASTENERS: MILD STEEL WELD WORMS, HARDENED STEEL SELF-TAPPING SCREWS OR POWDER ACTUATED FASTENERS.
 - STEEL DECK MATERIAL SHALL CONFORM TO ASTM A653 FOR GALVANIZED DECK AND ASTM A1008 FOR PAINTED DECK.
- C. INSTALLATION:
- ERECT METAL DECKING IN ACCORDANCE WITH STEEL DECK INSTITUTE (SDI) FOR ROOF DECKS.
 - BEAR DECKING ON WOOD SUPPORT SURFACES WITH A 4" MINIMUM BEARING AND ON STEEL SUPPORTS WITH A MINIMUM OF 1-1/2" BEARING.
 - FASTEN RIBBED DECK TO STEEL SUPPORT MEMBERS AT ENDS AND INTERMEDIATE SUPPORTS WITH FUSION WELDS THROUGH WASHERS OR MECHANICAL FASTENERS AT 12 INCHES O.C. AND AT EVERY OTHER TRANSVERSE FLUTE, UNLESS NOTED OTHERWISE.
 - REINFORCE STEEL DECK OPENINGS FROM 6" TO 18" IN SIZE WITH 2"x2"x1/4" STEEL ANGLES. LARGER OPENINGS SEE DRAWINGS OR CONSULT ENGINEER.
 - UNLESS INDICATED OTHERWISE, PROVIDE 3" x 3" x 3/16" DECK SUPPORT ANGLES AROUND PERIMETER OF ROOF DECK.



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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	MCZ
DESIGNED BY	MCZ
REVIEWED BY	JEH
ORIGINAL ISSUE DATE	05/27/22
CLIENT PROJECT NO.	

TITLE

STRUCTURAL NOTES

SHEET **S1-00**

REFERENCE SCALE
1" = 1' - 0"
1/4" = 12"



FOOTING SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT	COMMENTS
F1				(2) #6 BARS CONTINUOUS W/ #4 BARS TRANSVERSE @ 18" OC	REFER TO PLAN AND DETAILS
F2				(2) #6 BARS CONTINUOUS W/ #4 BARS TRANSVERSE @ 18" OC	REFER TO PLAN AND DETAILS
F3				(3) #6 BARS CONTINUOUS W/ #4 BARS TRANSVERSE @ 18" OC	REFER TO PLAN AND DETAILS
F4	4'-0"	4'-0"	1'-0"	#6 BARS @ 14" OCEW	
F5	5'-0"	5'-0"	1'-0"	#6 BARS @ 14" OCEW	
WF1		4'-0"	1'-0"	(3) #6 BARS CONTINUOUS W/ #4 BARS TRANSVERSE @ 18" OC	

FOUNDATION WALL SCHEDULE			
MARK	WIDTH	REINFORCEMENT	COMMENTS
FDN1	0' - 8"	#4 BARS @ 12" OCEW	CIP CONCRETE

PIER AND PILASTER SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINFORCEMENT	COMMENTS
P1	1' - 4"	1' - 4"		(4) #6 BARS VERTICAL W/ #4 TIES @ 12" OC THROUGHOUT AND (2) #4 TIES WITHIN TOP 5" OF PIER	VERTICAL REINFORCING CONTINUES INTO PAD FOOTING W/ STANDARD 90° HOOK
P2	2' - 0"	2' - 0"		(8) #6 BARS VERTICAL W/ #4 TIES @ 8" OC THROUGHOUT AND (2) #4 TIES WITHIN TOP 5" OF PIER	VERTICAL REINFORCING CONTINUES INTO PAD FOOTING W/ STANDARD 90° HOOK

COLUMN SCHEDULE		
MARK	TYPE	DESCRIPTION
C1	W10x49	
C2	W4x13	

SLAB SCHEDULE			
Mark	THICKNESS	REINFORCEMENT	COMMENTS
S1	8"	#4 BARS @ 12" OCEW	



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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/AMZ

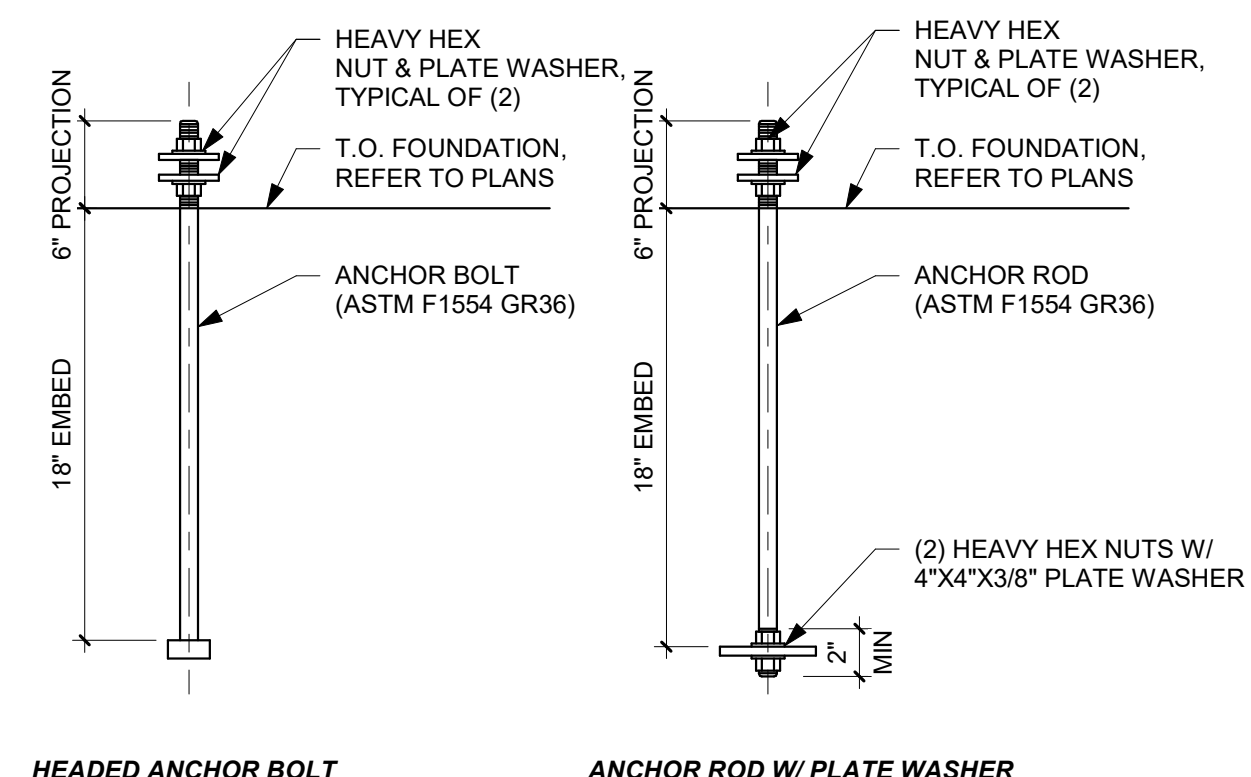
PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	MCZ
DESIGNED BY	MCZ
REVIEWED BY	JEH
ORIGINAL ISSUE DATE	05/27/22
CLIENT PROJECT NO.	

TITLE

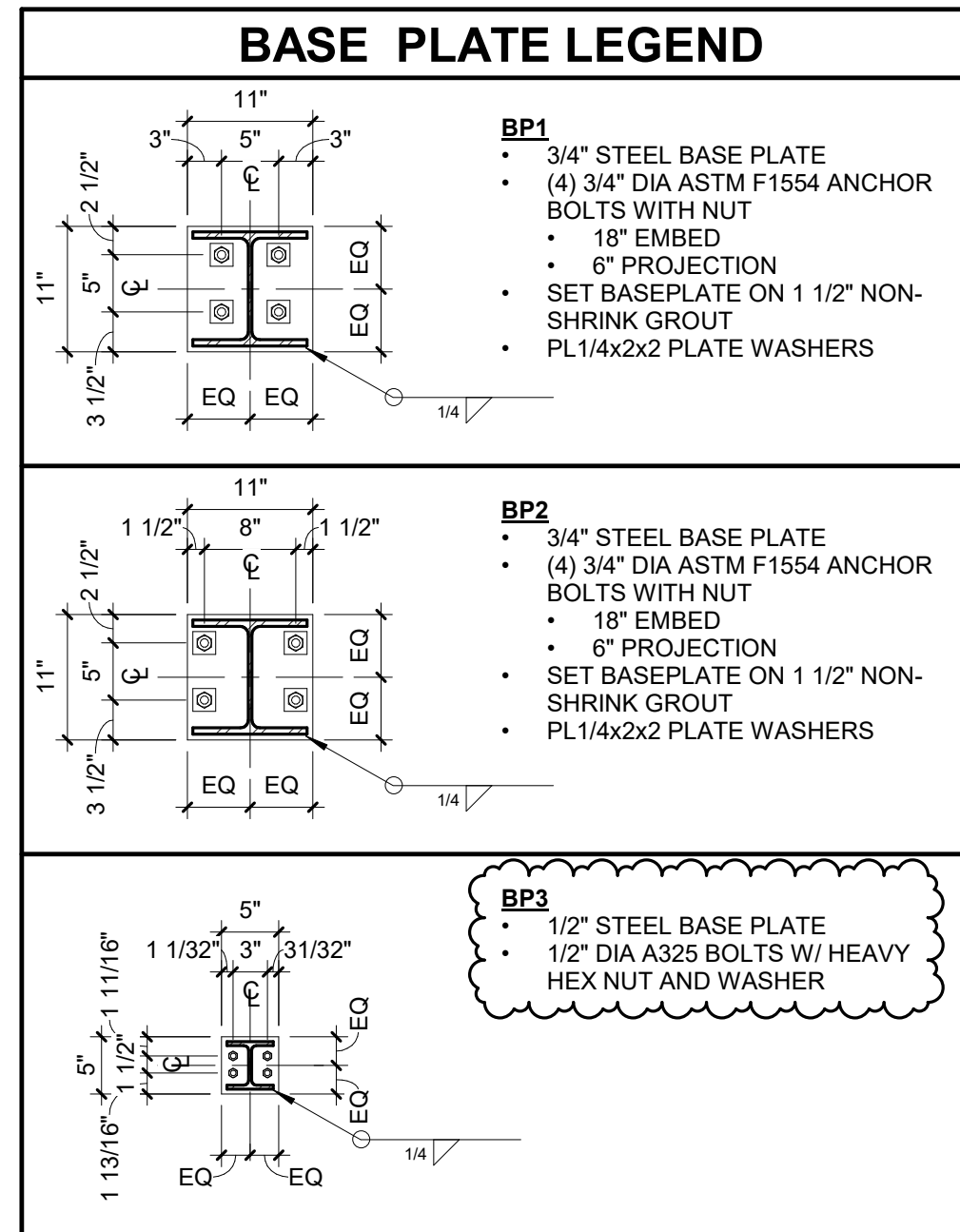
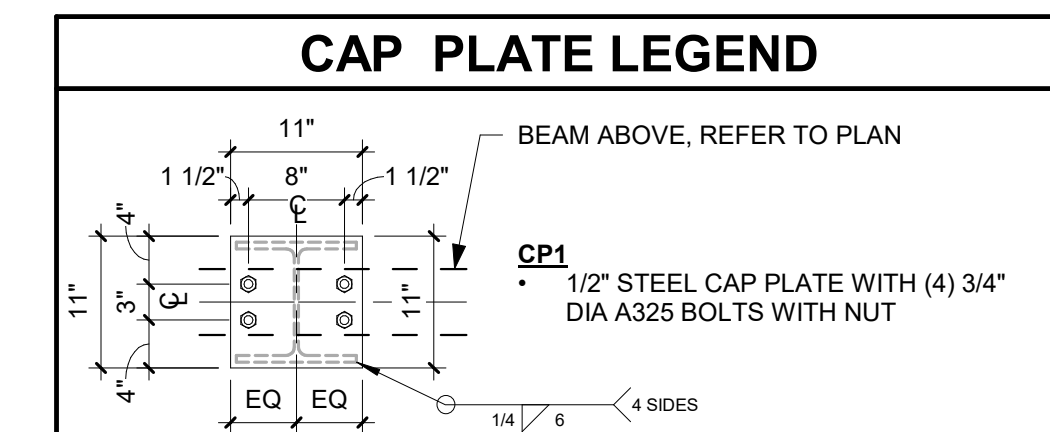
STRUCTURAL SCHEDULES

SHEET

S1-05



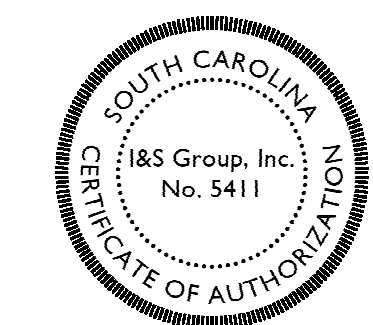
2 ANCHOR BOLT DETAIL NOT TO SCALE



REFERENCE SCALE 1" = 1'

SHEET NOTES

1. REFER TO FOUNDATION DETAILS FOR TYPICAL CONSTRUCTION JOINT AND CONTROL JOINT DETAILS.
2. CONTRACTOR TO VERIFY IN FIELD SIZE OF EXISTING FOUNDATION WALLS AND FOOTINGS WHERE NEW WALLS AND FOOTINGS ARE BEING POURED AGAINST. REPORT FINDINGS TO STRUCTURAL ENGINEER OF RECORD IF DIFFERENT THAN SHOWN ON PLANS AND DETAILS.



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PROJECT

BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

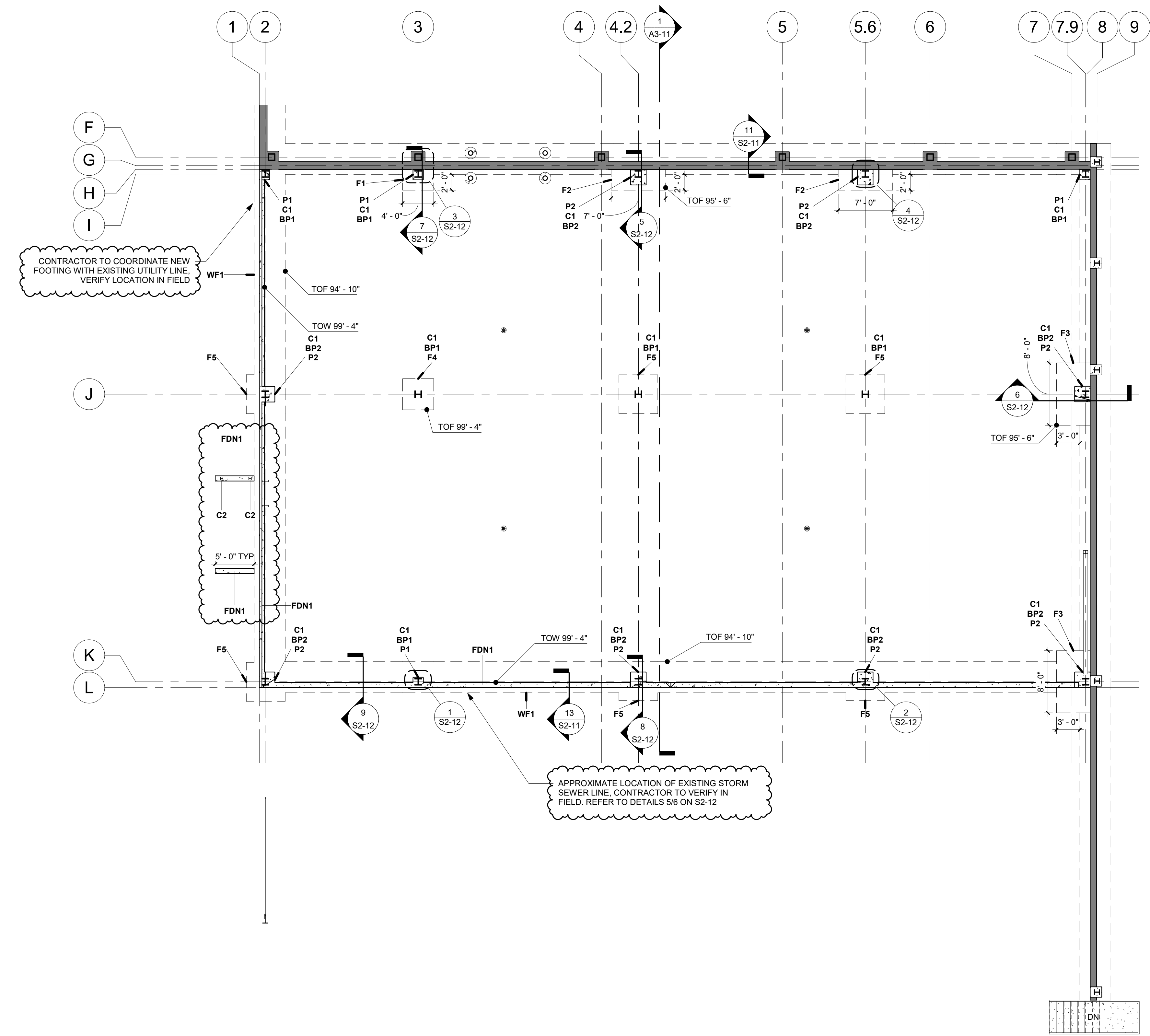
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DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MZ

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CLIENT PROJECT NO.	

TITLE

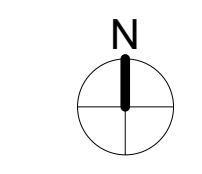
FOUNDATION PLAN

SHEET **S1-11**

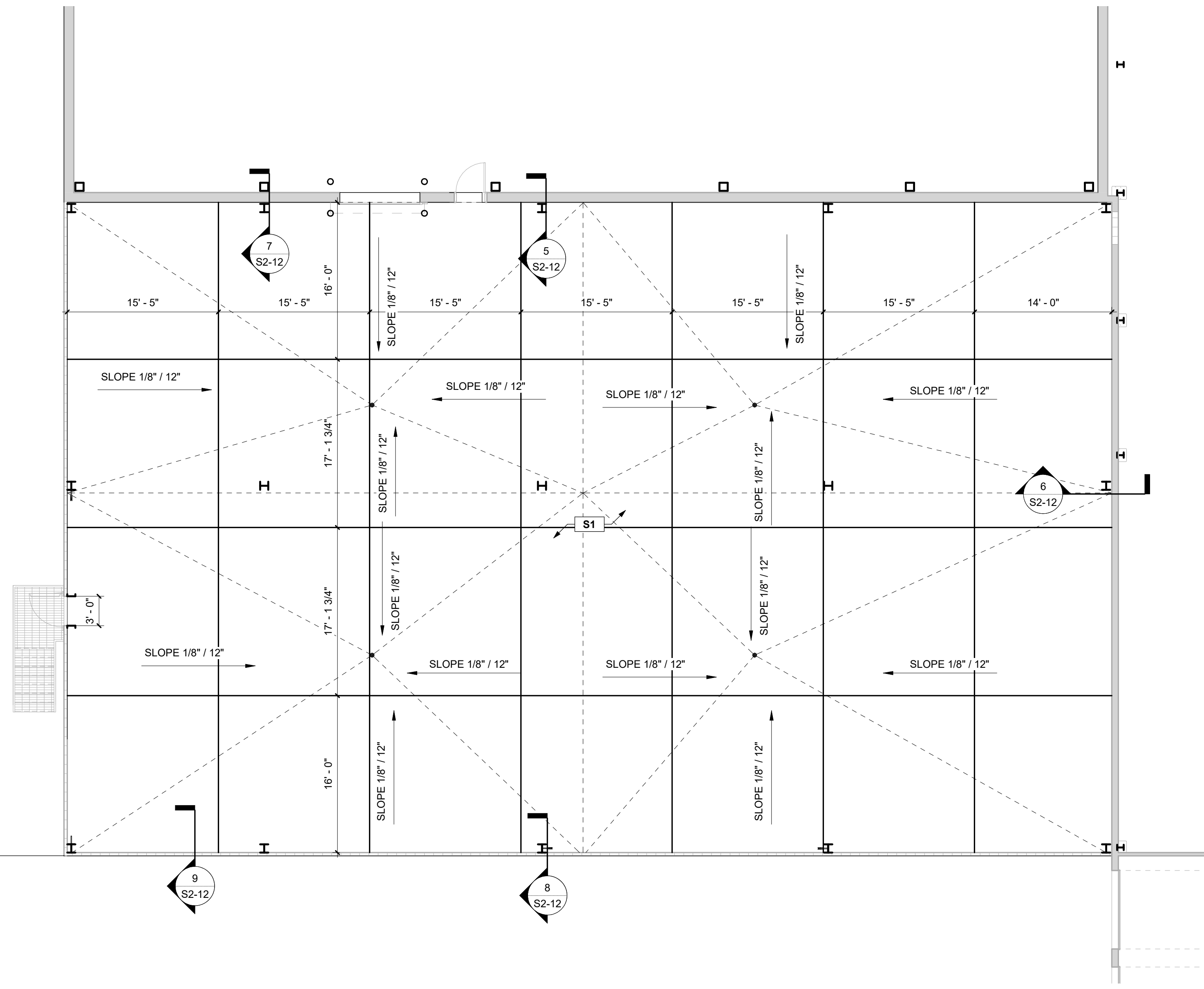


REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"

1 FOUNDATION PLAN
1/8" = 1'-0"



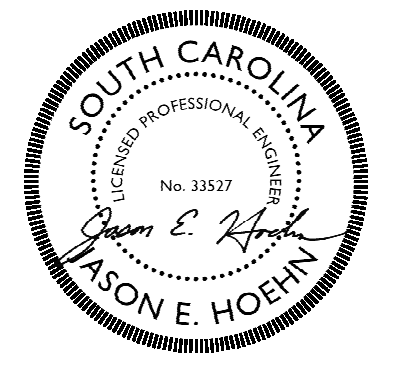
SHEET NOTES
 A. REFER TO FOUNDATION DETAILS FOR TYPICAL CONSTRUCTION JOINT AND CONTROL JOINT DETAILS.



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

REFERENCE SCALE
 1" = 1'-0"
 0 1/4" 1/2" 1" 2"

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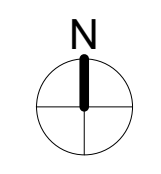
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BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
 WEST COLUMBIA SOUTH CAROLINA

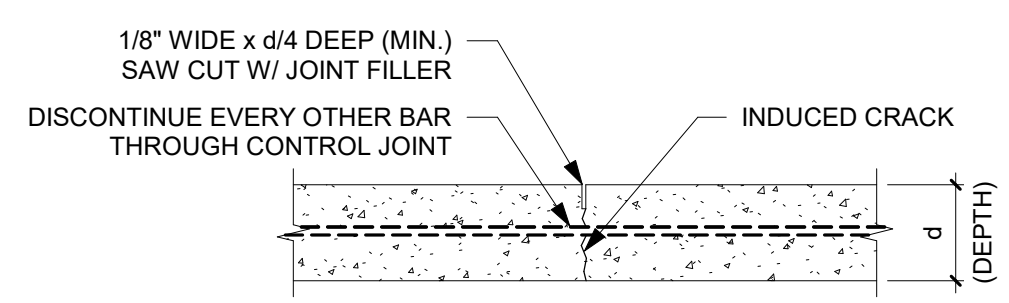
REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO. 22-26670
 FILE NAME
 DRAWN BY MCZ
 DESIGNED BY MCZ
 REVIEWED BY JEH
 ORIGINAL ISSUE DATE 05/27/22
 CLIENT PROJECT NO.

TITLE
SLAB PLAN

SHEET
S1-31

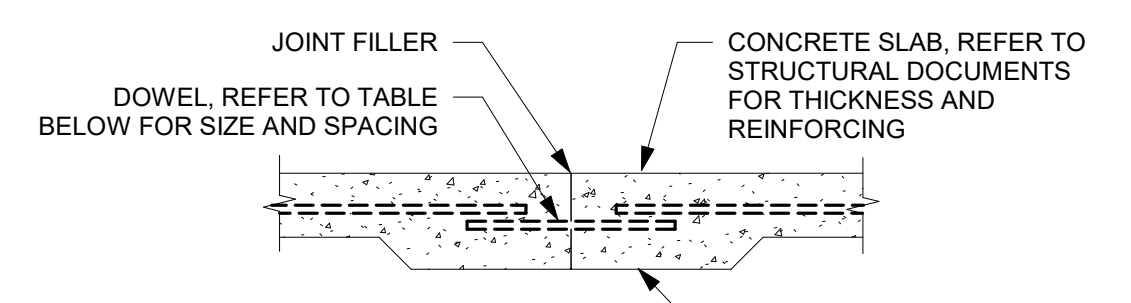




REINFORCED SLAB DEPTH	PREFERRED SPACING	CONTROL JOINT DEPTH (MIN.)
4"	8' TO 12'	1"
5"	10' TO 15'	1.25"
6"	12' TO 18'	1.5"
7"	14' TO 21'	1.75"
≥ 8"	16' TO 24'	2"

REFER TO CONTROL JOINT PLACEMENT GUIDE FOR ADDITIONAL CONTROL JOINT INFORMATION.

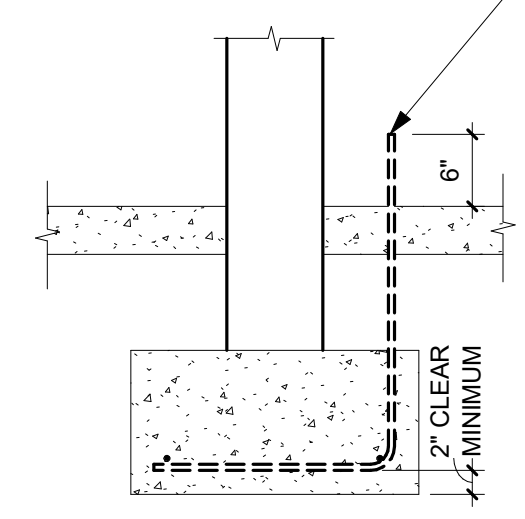
1 TYPICAL CONTROL JOINT DETAIL
1" = 1'-0"



SLAB DEPTH	DOWEL DIMENSIONS			DOWEL SPACING (CENTER-TO-CENTER)		
	ROUND	SQUARE	PLATE DOWEL	ROUND	SQUARE	PLATE DOWEL
5" TO 6"	3/4"Ø x 10"	3/4" x 10"	M/R*	12"	14"	18"
7" TO 8"	1"Ø x 13"	1" x 13"	M/R*	12"	14"	18"
9" TO 11"	1 1/4"Ø x 15"	1 1/4" x 15"	M/R*	12"	12"	18"

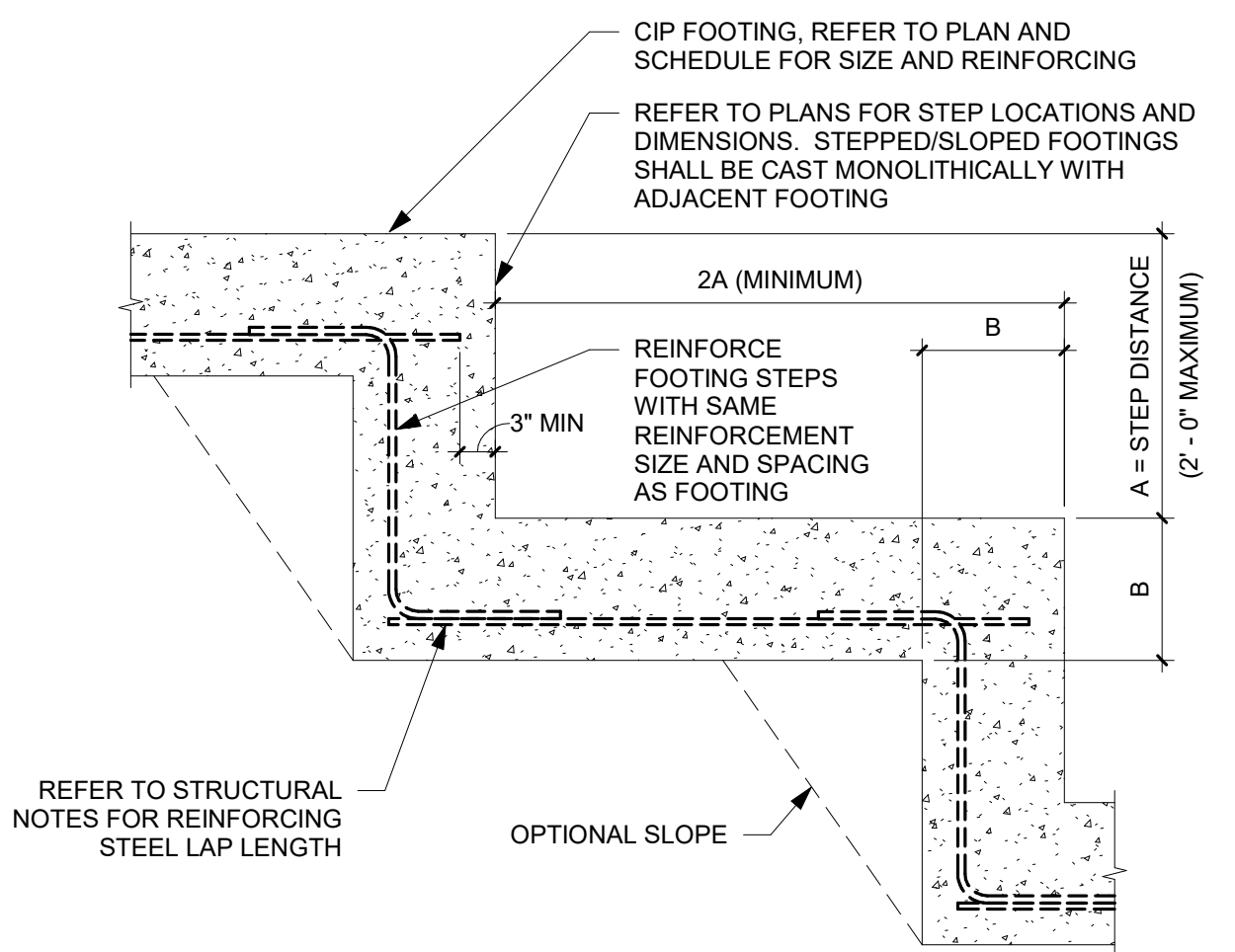
*M/R = MANUFACTURER'S RECOMMENDATIONS. BECAUSE OF THE VARIOUS PLATE DOWEL GEOMETRIES AND INSTALLATION DEVICES AVAILABLE FROM DIFFERENT MANUFACTURERS, THE MANUFACTURERS SHOULD BE CONSULTED FOR THEIR RECOMMENDED PLATE DOWEL SIZE.

2 TYPICAL CONSTRUCTION JOINT DETAIL
1" = 1'-0"

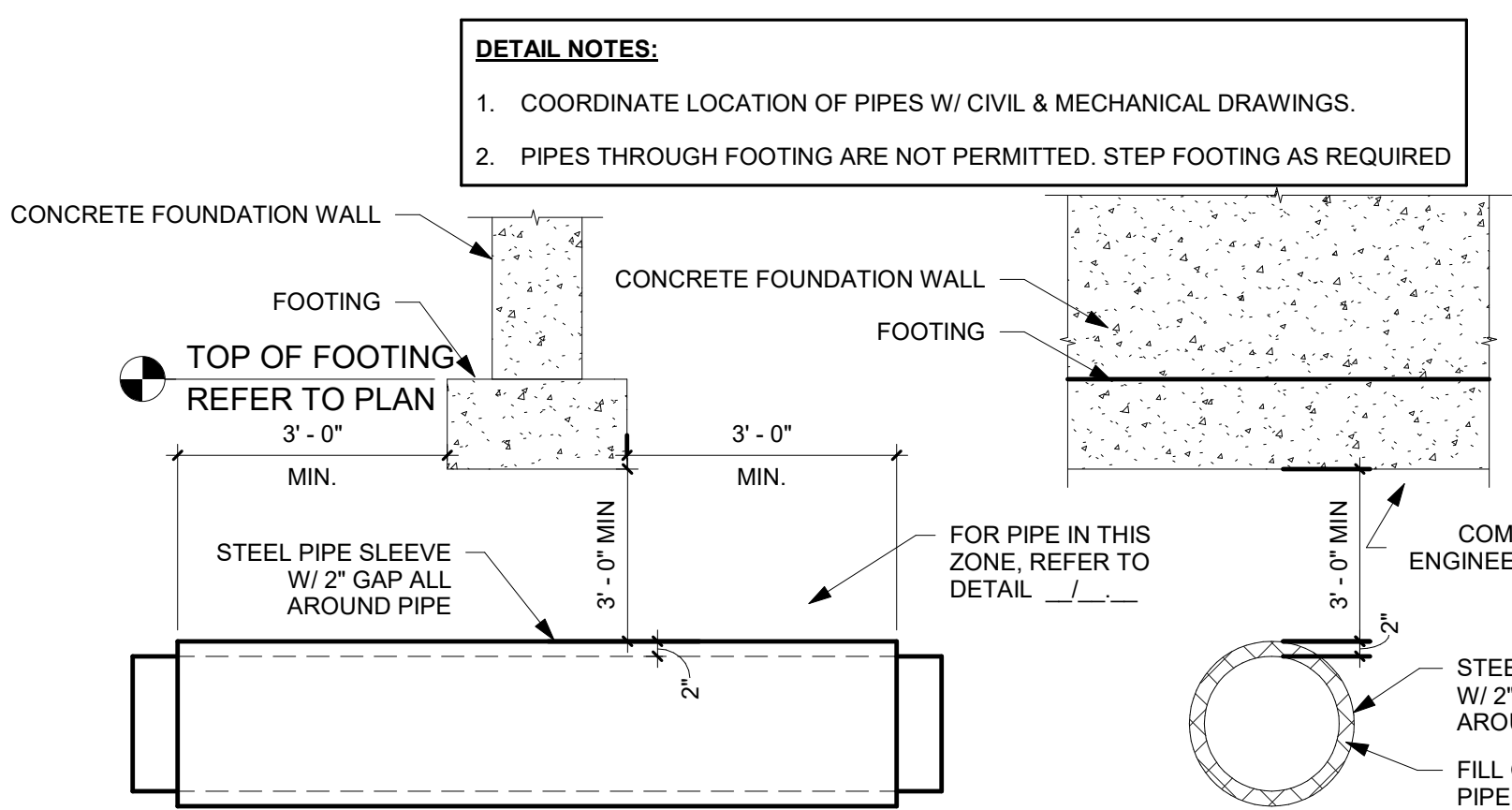


NOTES:
1. PURPOSE OF DETAIL IS TO INDICATE TYPICAL GROUNDING ELECTRODE INFORMATION ONLY AND DOES NOT REFLECT ACTUAL FOUNDATION CONSTRUCTION. REFER TO PLANS, SECTIONS, AND DETAILS FOR FOUNDATION CONSTRUCTION INFORMATION.
2. SUPPLY AND INSTALL GROUNDING ELECTRODE FOR GROUNDING OF ELECTRICAL SERVICE AS REQUIRED BY ELECTRICAL DOCUMENTS.

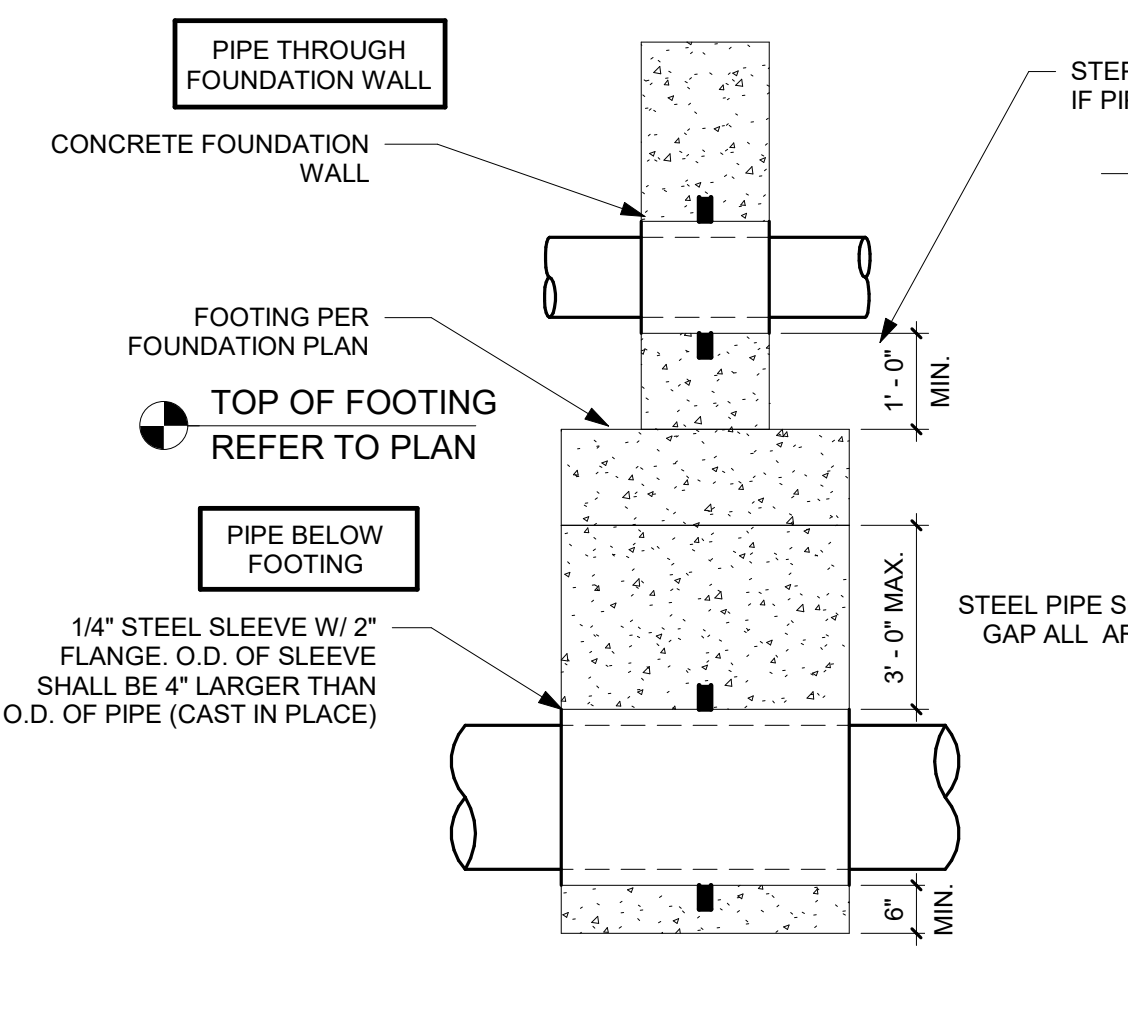
3 GROUNDING ELECTRODE DETAIL
3/4" = 1'-0"



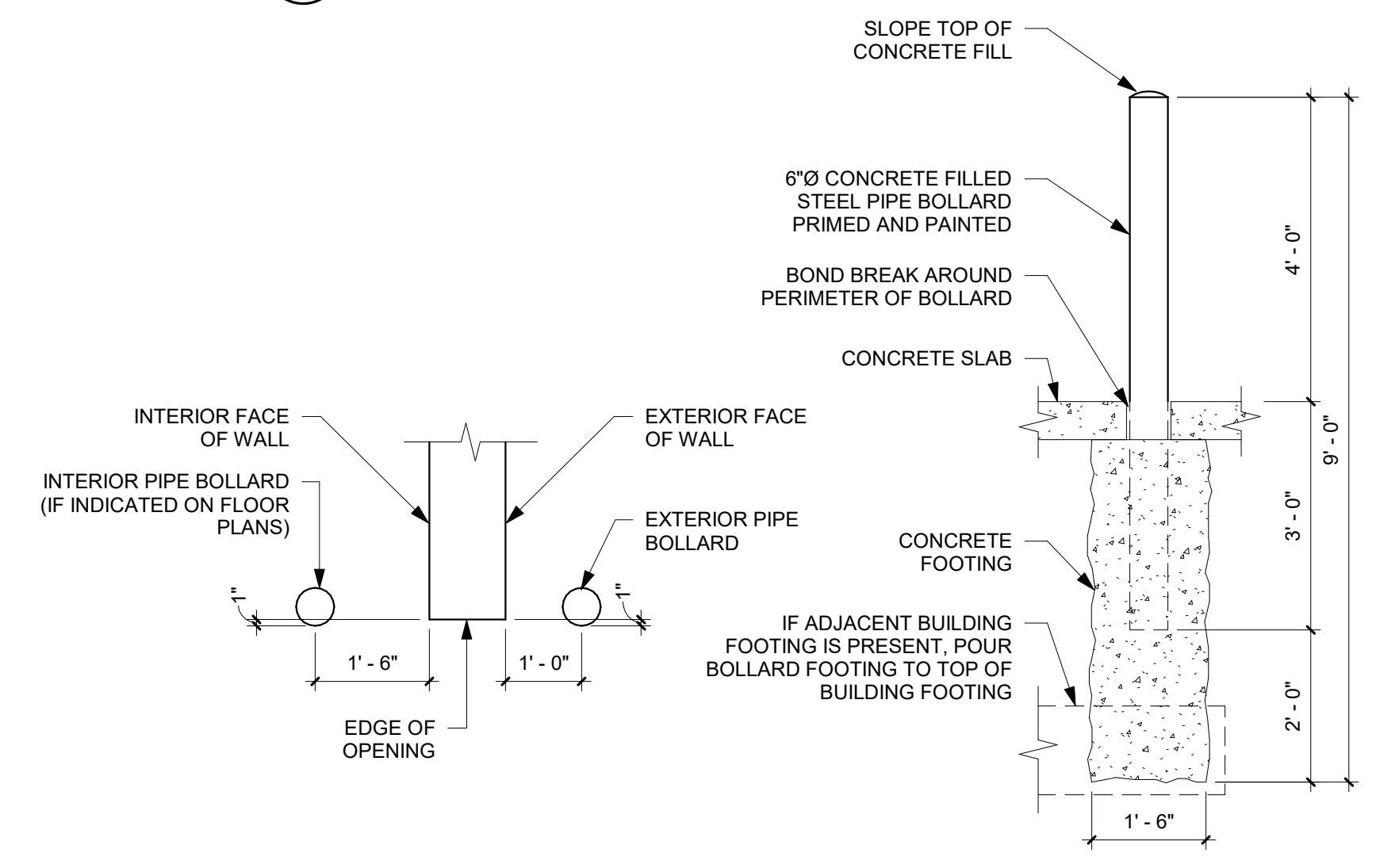
4 STEPPED FOOTING DETAIL
3/4" = 1'-0"



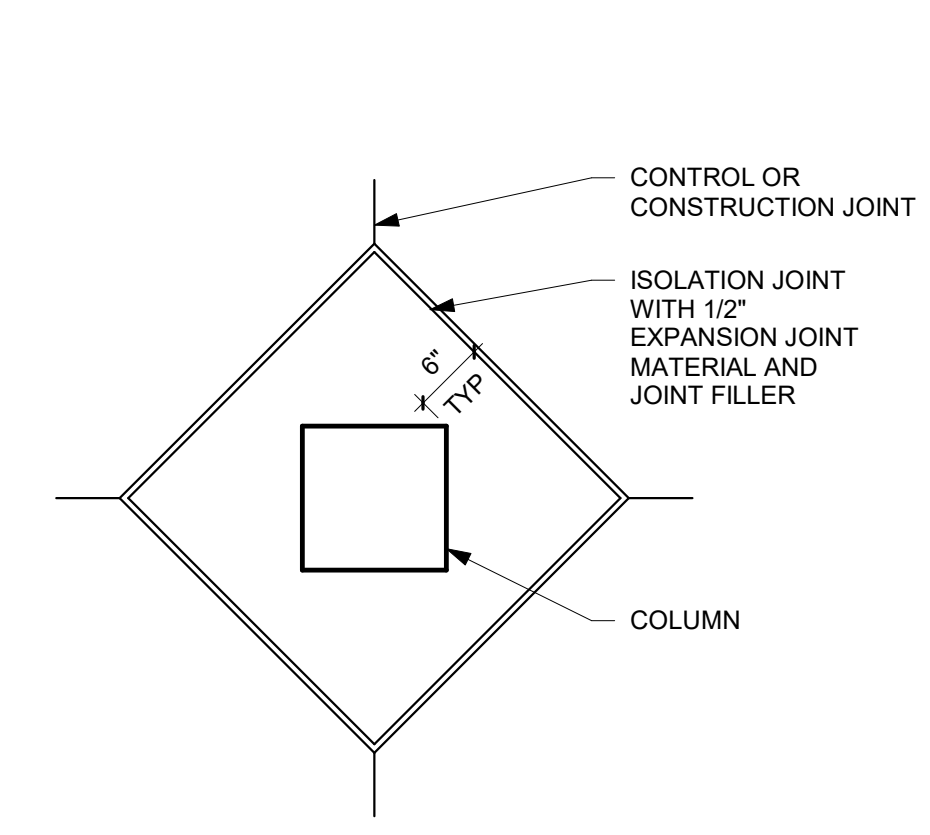
5 MECHANICAL LINE OVER 3' UNDER FOOTING DETAIL
1/2" = 1'-0"



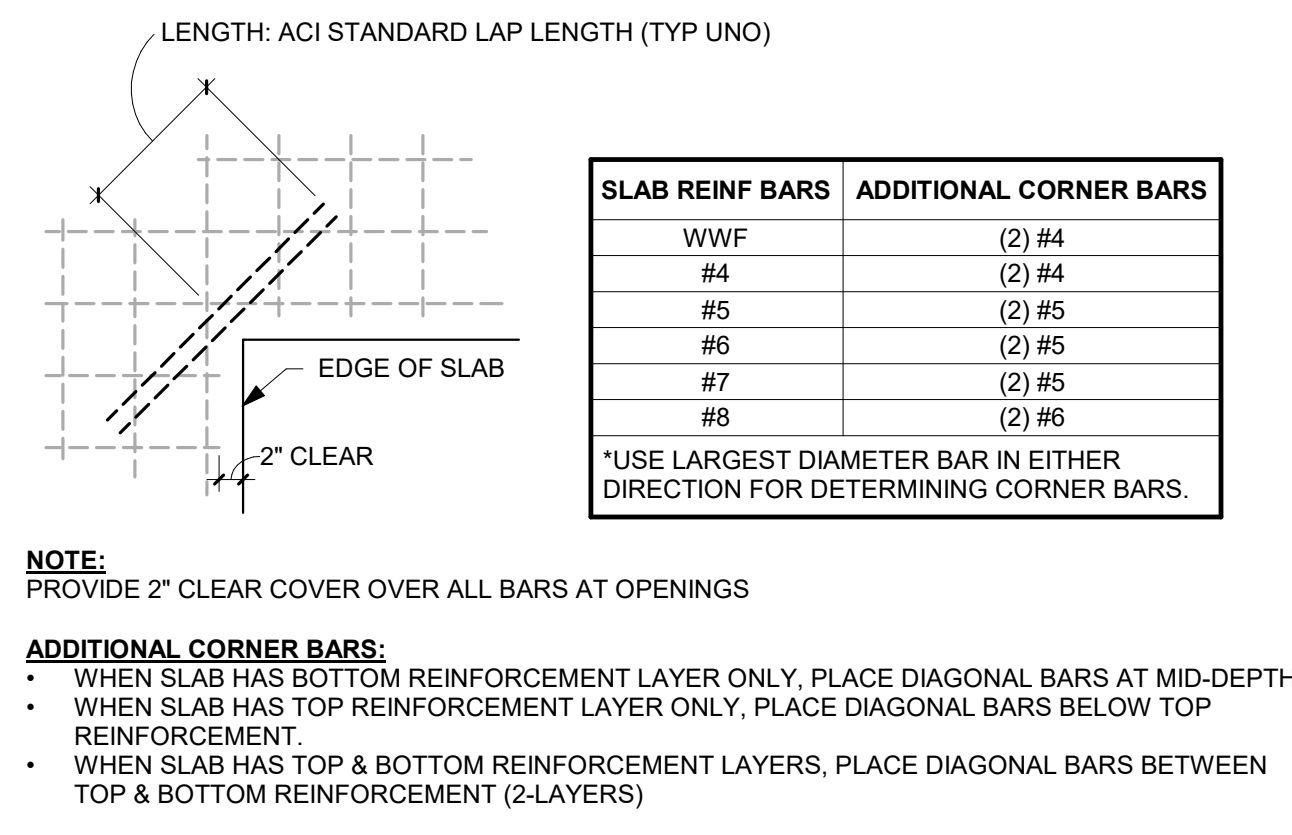
6 MECHANICAL LINE UNDER FOOTING DETAIL
1/2" = 1'-0"



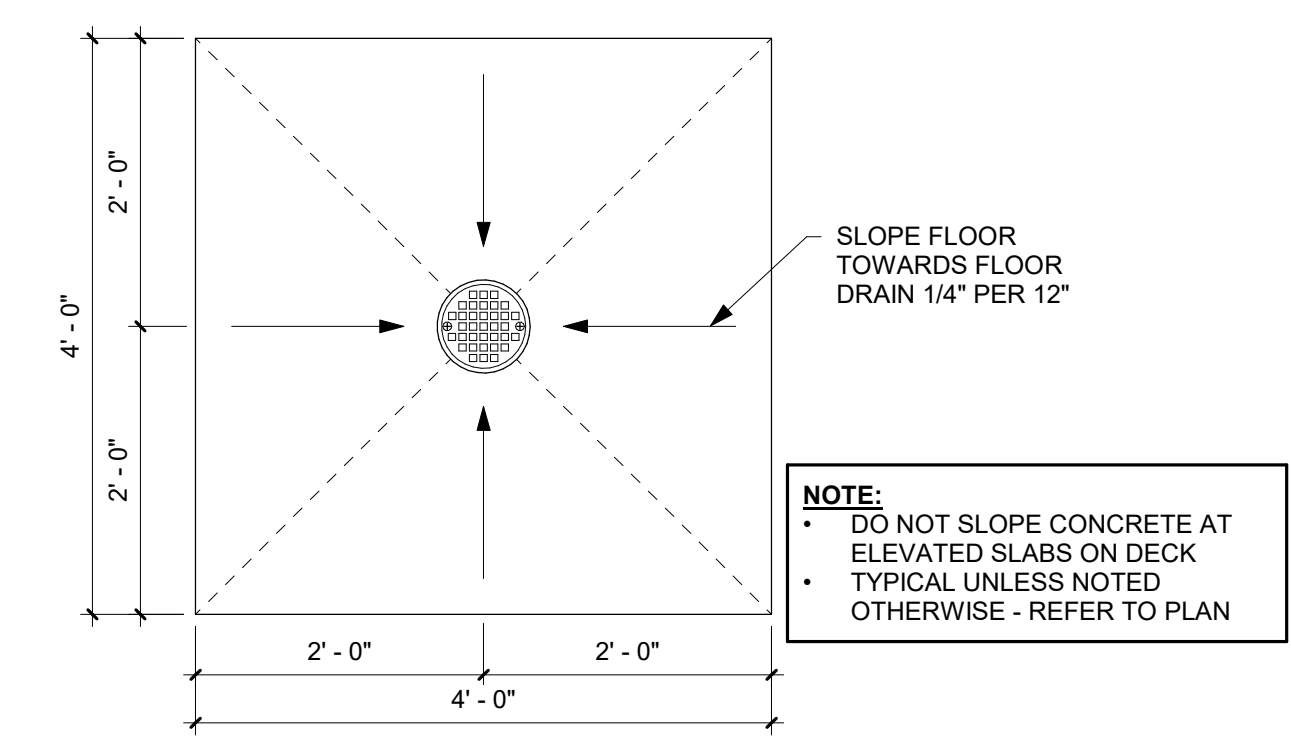
7 PIPE BOLLARD DETAIL
1/2" = 1'-0"



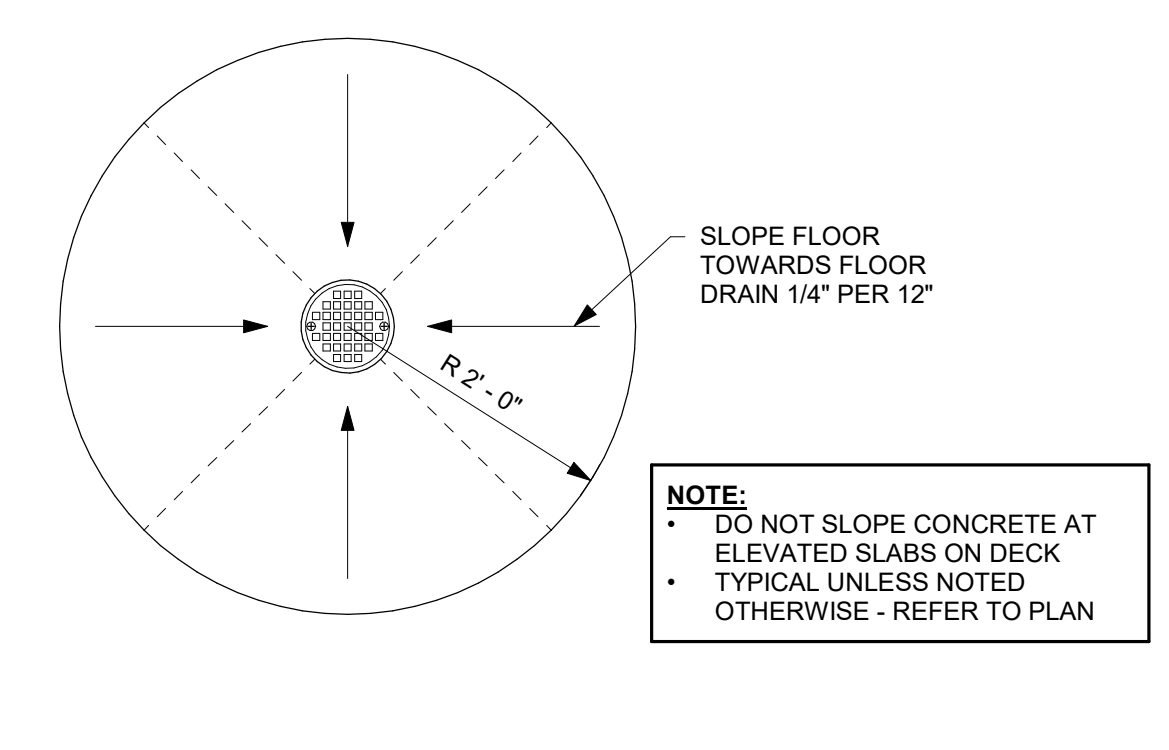
8 FLOOR/COLUMN ISOLATION JOINT DETAIL
3/4" = 1'-0"



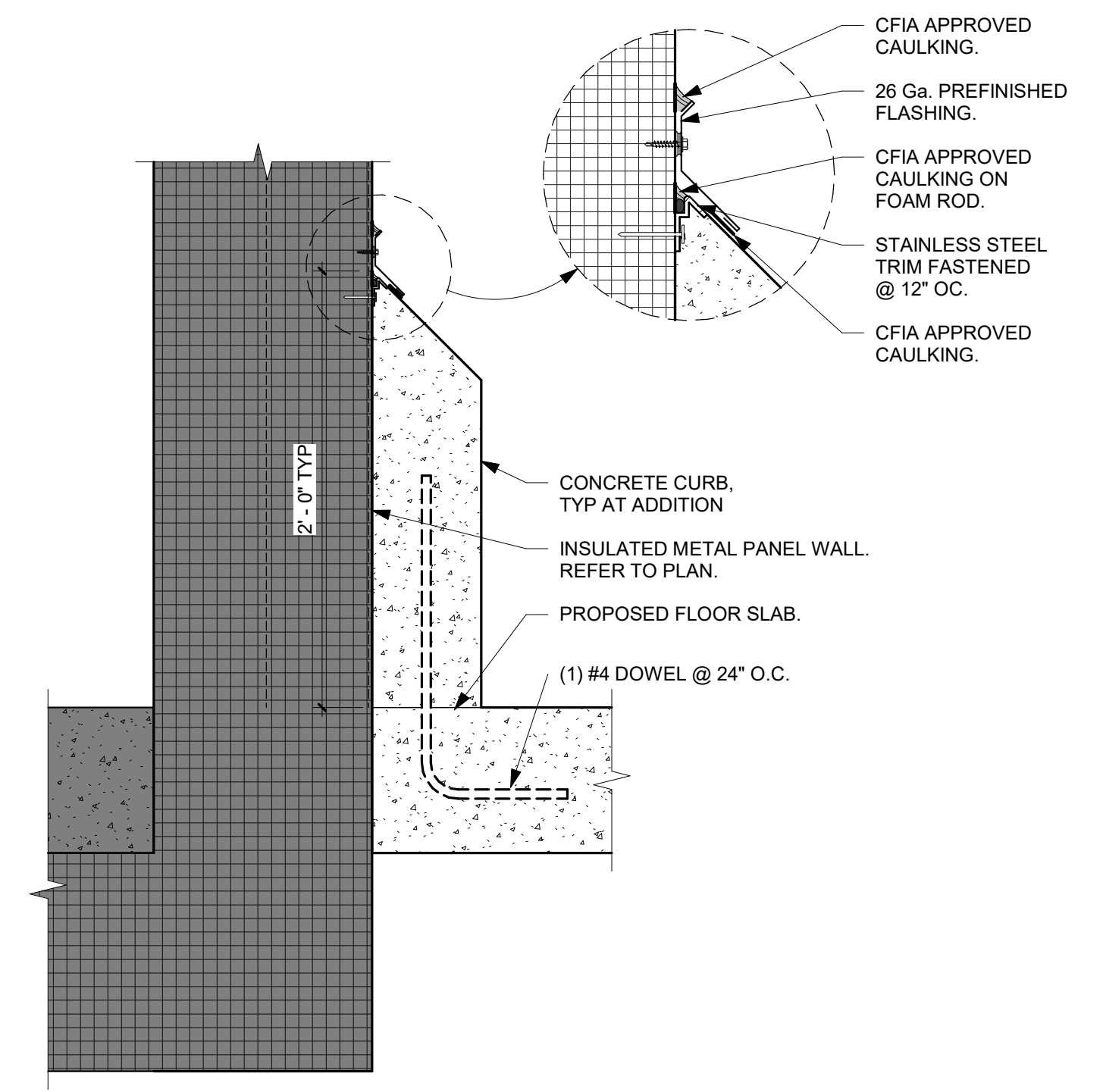
9 SLAB REENTRANT CORNER DETAIL
3/4" = 1'-0"



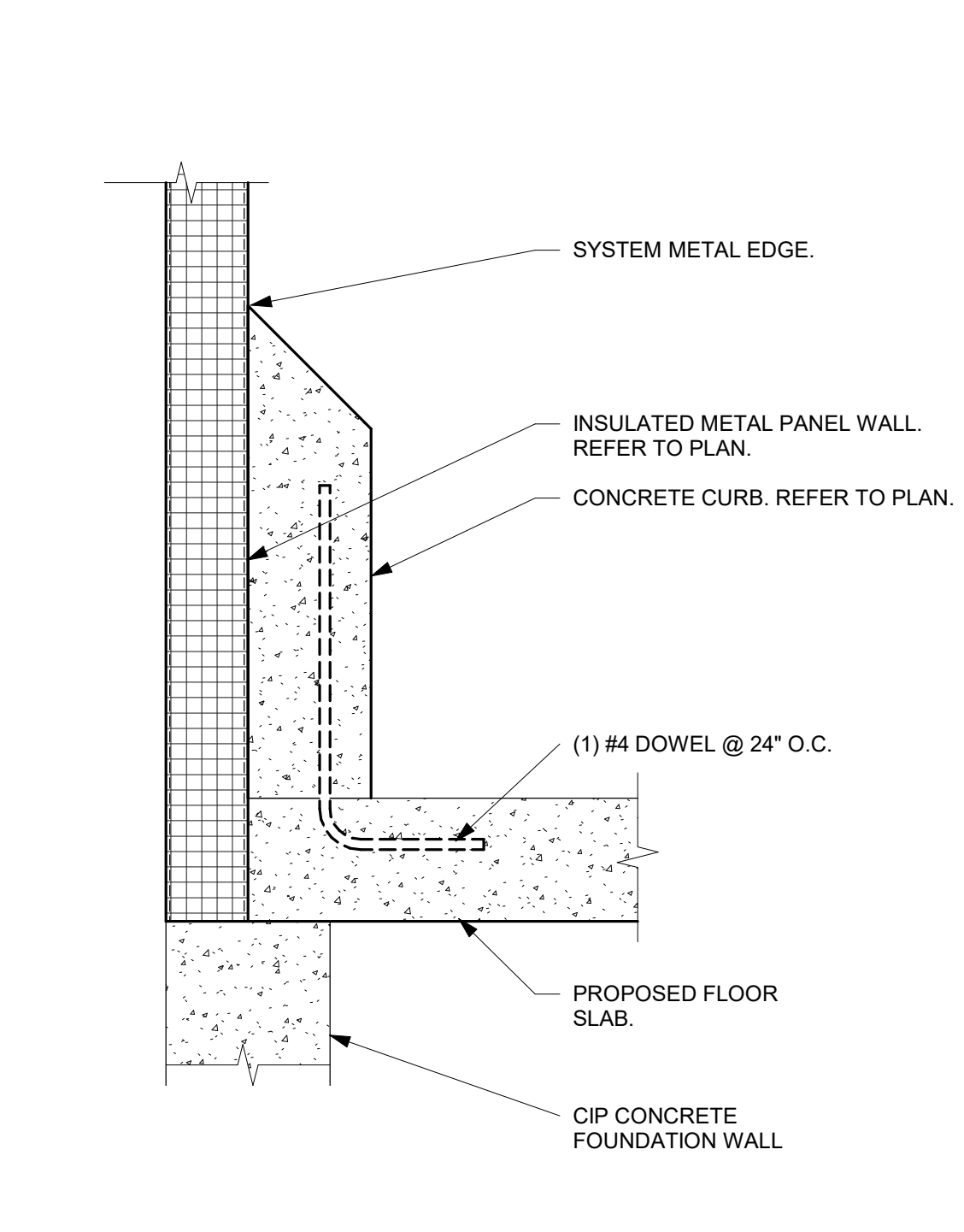
10 TYPICAL SLAB DEPRESSION AT FLOOR DRAIN
3/4" = 1'-0"



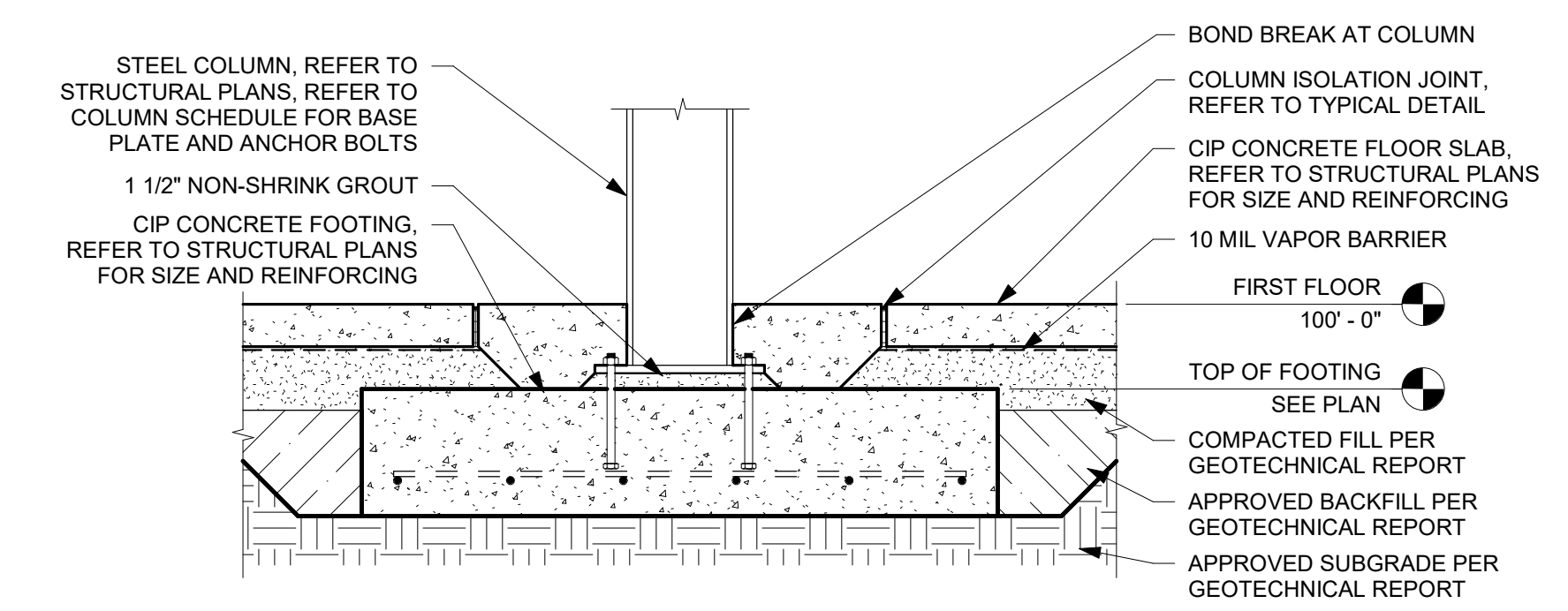
10 TYPICAL SLAB DEPRESSION AT FLOOR DRAIN
3/4" = 1'-0"



11 CONCRETE CURB AT EXISTING IMP WALL
1 1/2" = 1'-0"



13 FLOOR COATING AT CONCRETE CURB
1 1/2" = 1'-0"



14 TYPICAL INTERIOR CIP COLUMN FOOTING DETAIL
3/4" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"



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PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION

WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

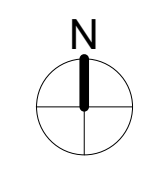
PROJECT NO. 22-26670
FILE NAME
DRAWN BY MCZ
DESIGNED BY MCZ
REVIEWED BY JEH
ORIGINAL ISSUE DATE 05/27/22

CLIENT PROJECT NO.

TITLE

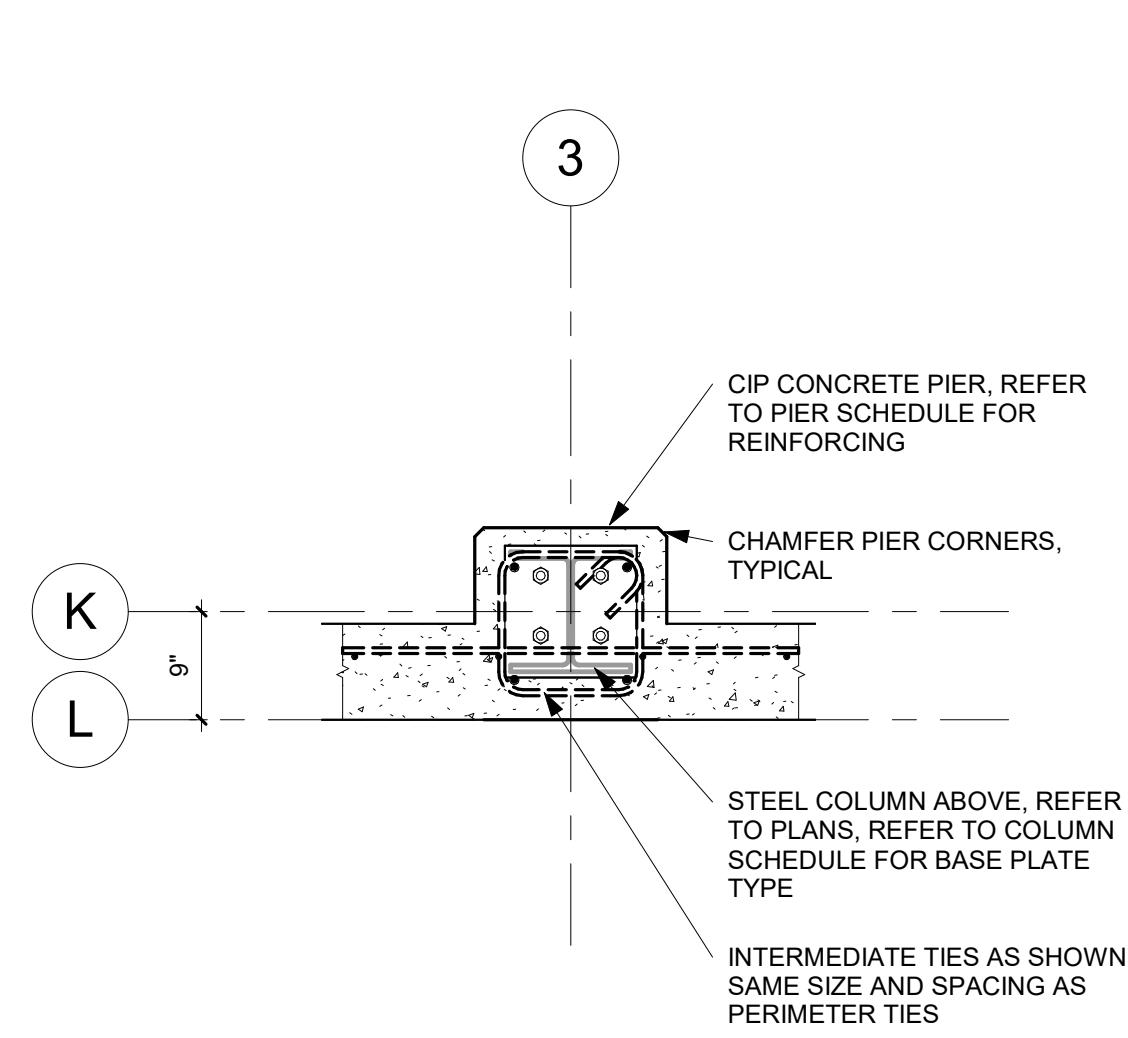
FOUNDATION & SLAB DETAILS

SHEET
S2-11

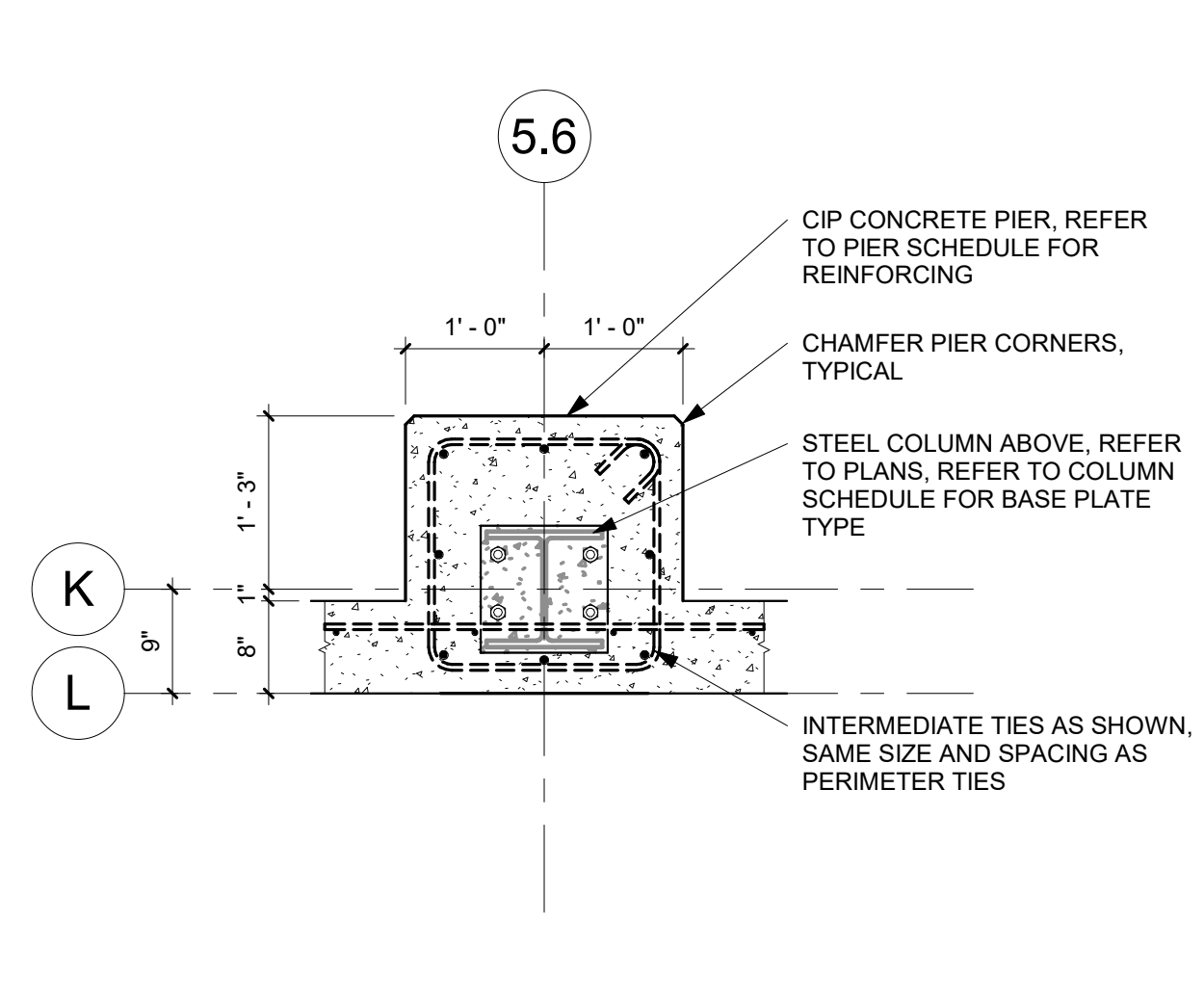


SHEET NOTES

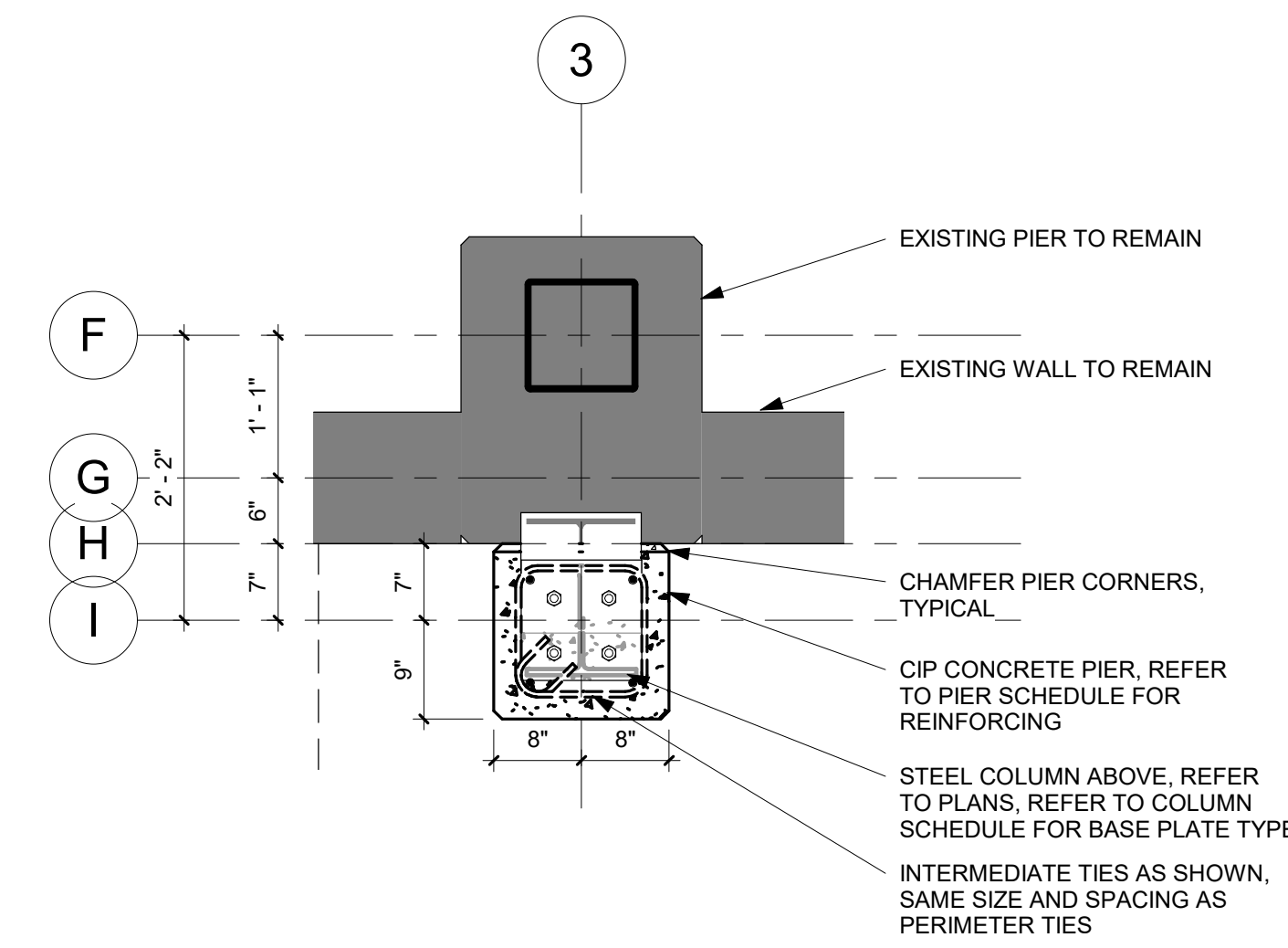
1. ALL IMP ATTACHMENT DETAILS BY IMP SUPPLIER.
2. CONTRACTOR TO VERIFY IN FIELD SIZE OF EXISTING FOUNDATION WALLS AND FOOTINGS WHERE NEW WALLS AND FOOTINGS ARE BEING POURED AGAINST. REPORT FINDINGS TO STRUCTURAL ENGINEER OF RECORD IF DIFFERENT THAN SHOWN ON PLANS AND DETAILS.



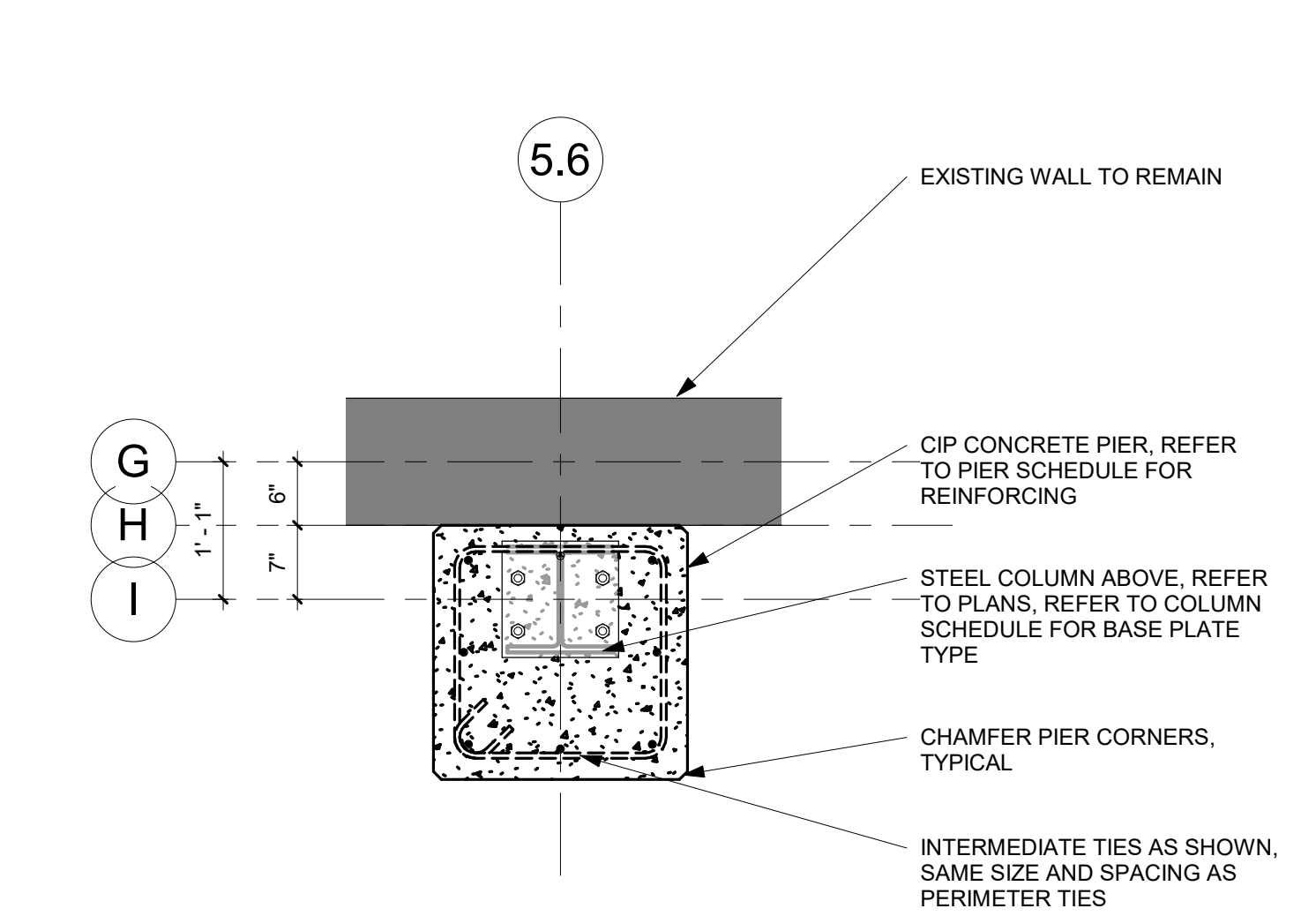
1 TYPICAL WALL PIER DETAIL AT NEW WALL
3/4" = 1'-0"



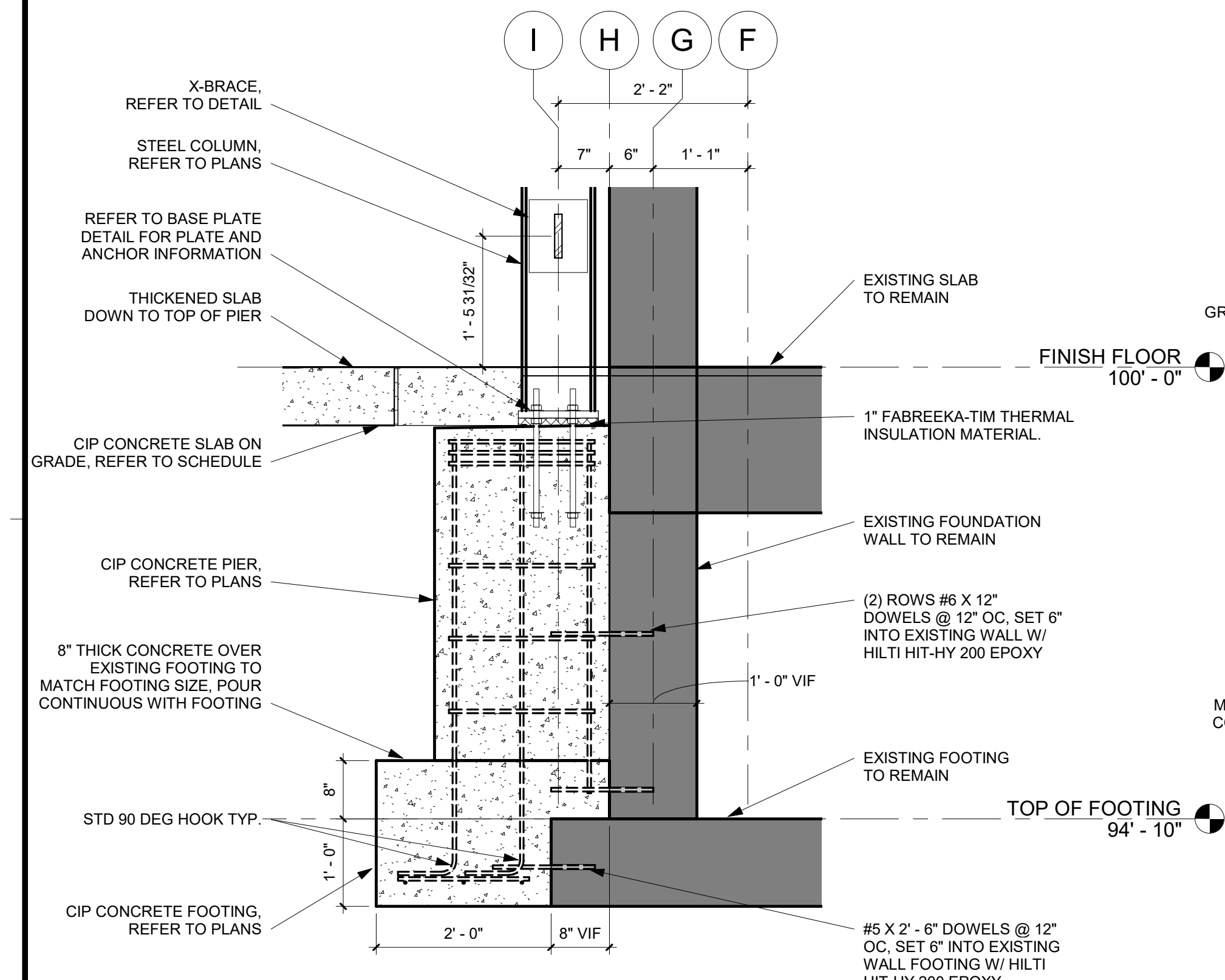
2 PIER DETAIL AT NEW WALL
3/4" = 1'-0"



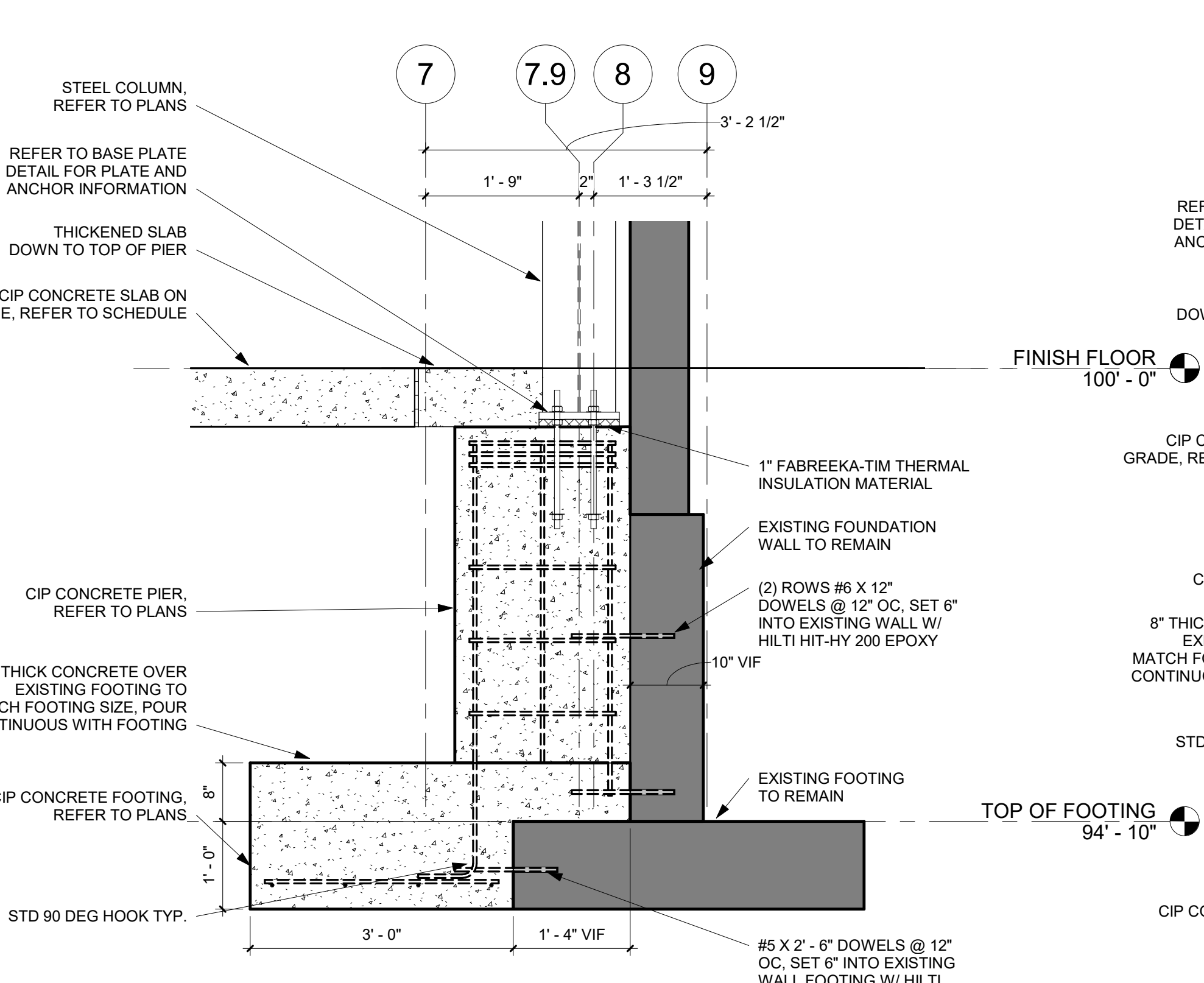
3 PIER DETAIL AT EXISTING FOUNDATION
3/4" = 1'-0"



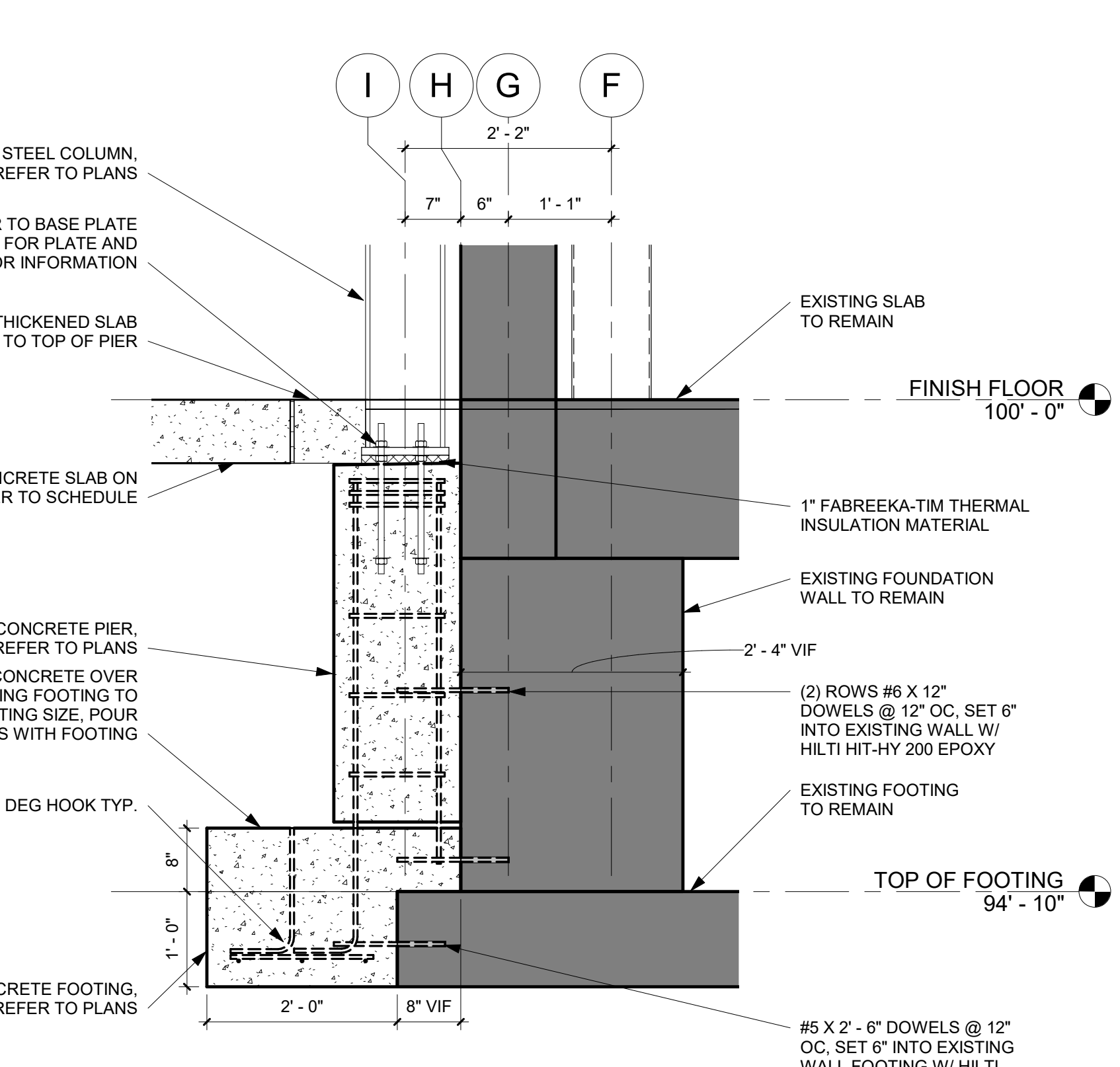
4 PIER DETAIL AT EXISTING WALL
3/4" = 1'-0"



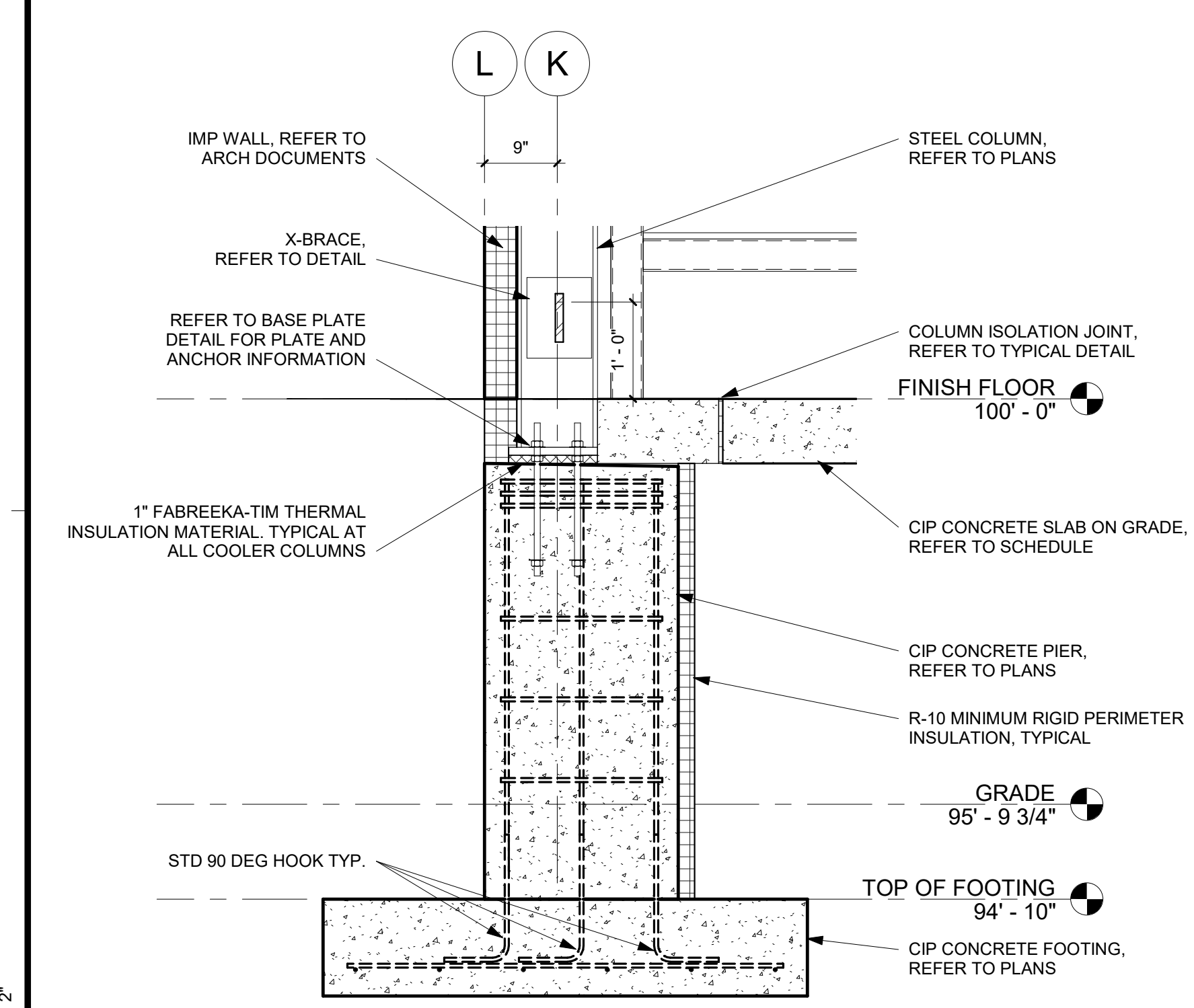
5 PIER DETAIL AT EXISTING FOUNDATION (NORTH WALL)
3/4" = 1'-0"



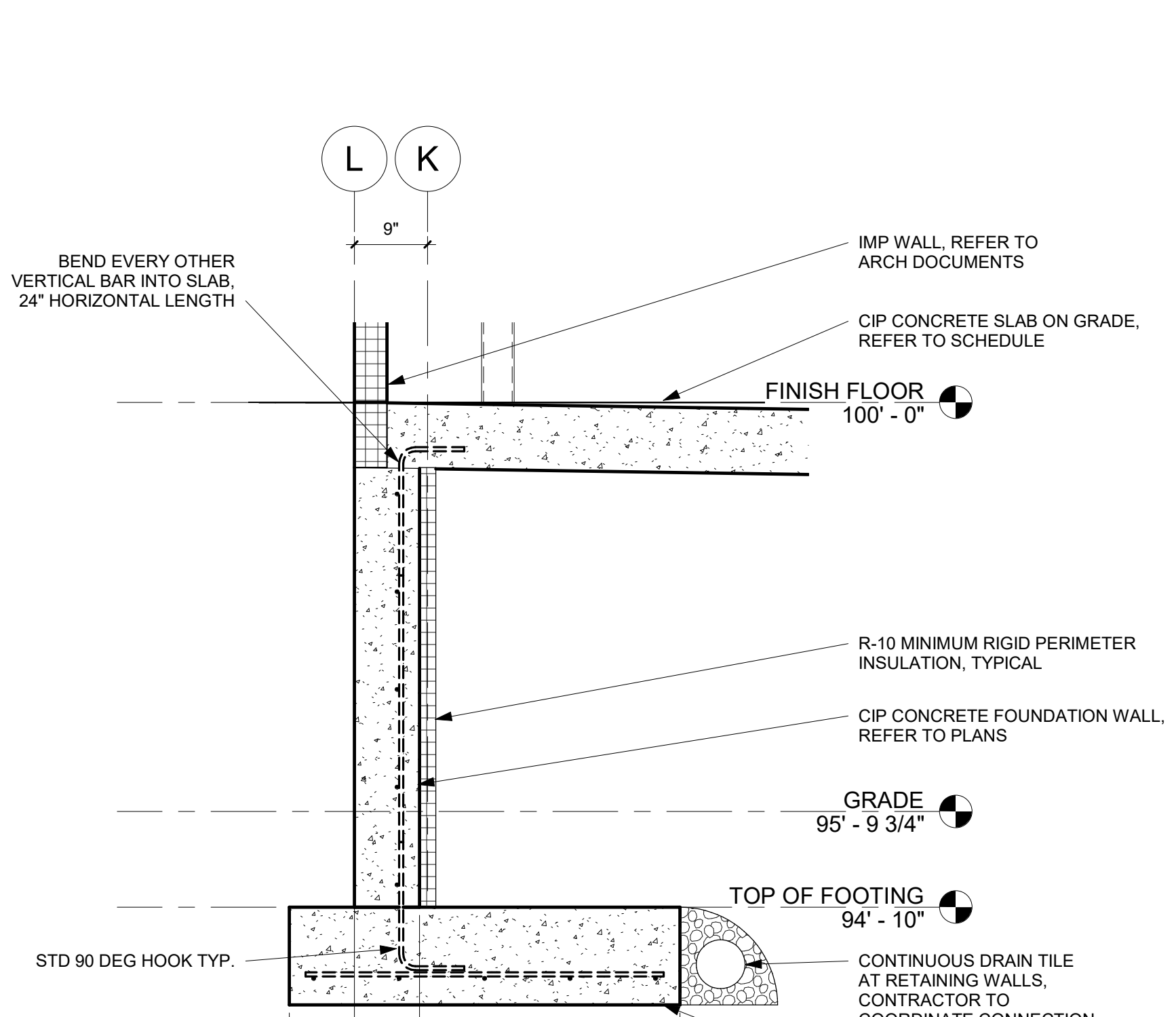
6 PIER DETAIL AT EXISTING FOUNDATION (EAST WALL)
3/4" = 1'-0"



7 PIER DETAIL AT EXISTING FOUNDATION (NORTH)
3/4" = 1'-0"

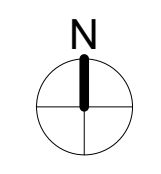


8 PIER DETAIL AT COOLER
3/4" = 1'-0"



9 FOOTING DETAIL AT COOLER
3/4" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 1" 2"



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PROJECT		
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION		
WEST COLUMBIA SOUTH CAROLINA		
REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	MCZ
DESIGNED BY	MCZ
REVIEWED BY	JEH
ORIGINAL ISSUE DATE	05/27/22
CLIENT PROJECT NO.	

TITLE

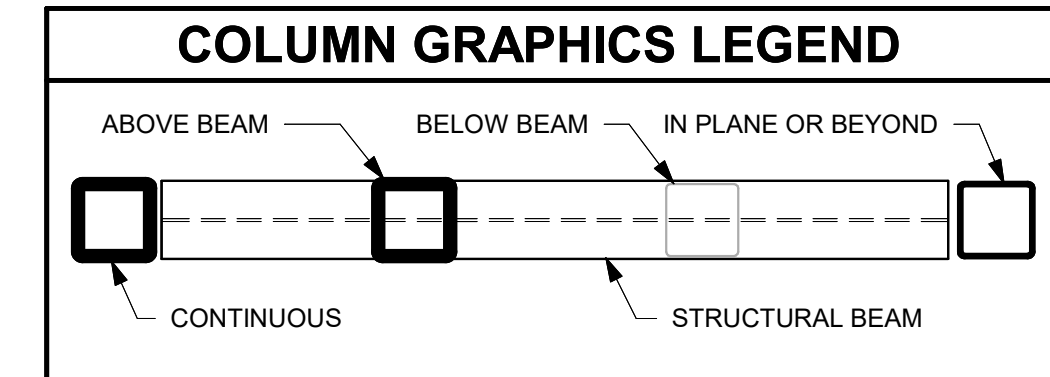
PIER AND FOUNDATION DETAILS

SHEET

S2-12

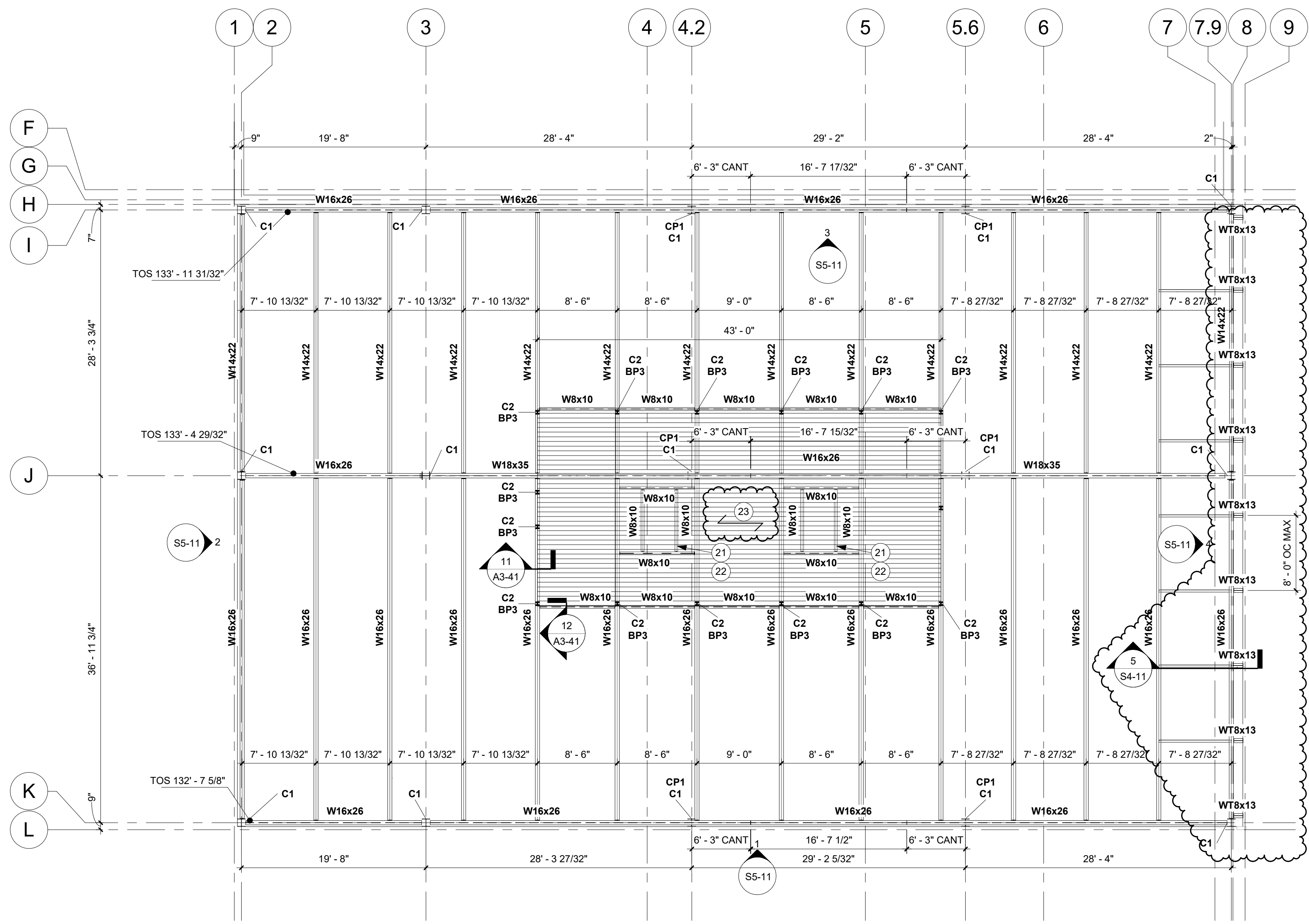


Key Value	Keynote Text
21	CONTRACTOR TO VERIFY LOCATIONS CONDENSING UNITS PRIOR TO FABRICATION AND ERECTION AND ALIGN SUPPORT STEEL BEAMS WITH SUPPORT LEGS.
22	ATTACHMENT OF CONDENSING UNITS TO SUPPORT STEEL BY SUPPLIER.
23	3" DEEP GALVANIZED RECTANGULAR BAR GRATING, SMOOTH

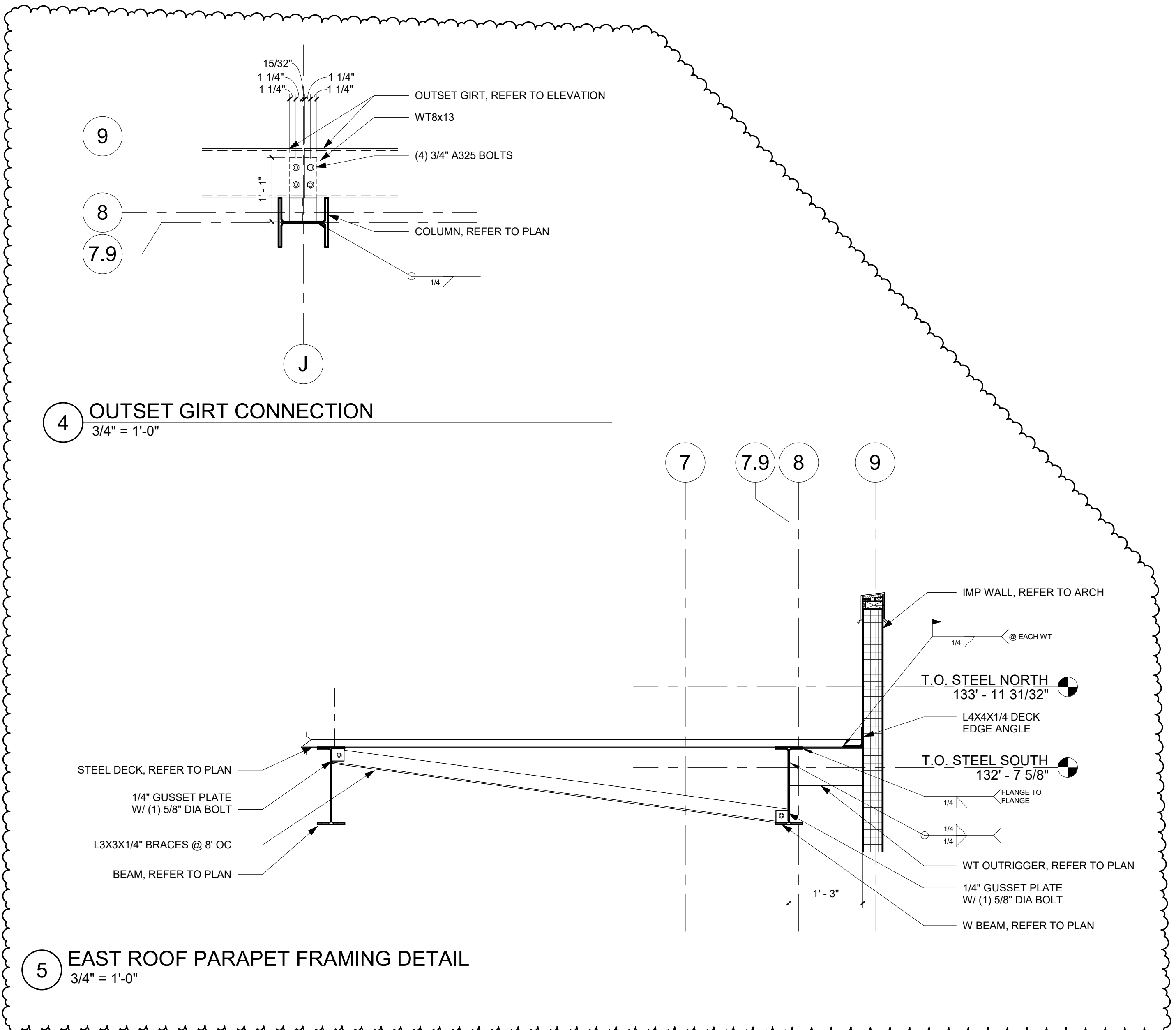


SHEET NOTES

- 1. 5B18 METAL DECKING, MINIMUM 3-SPAN CONDITION
- 2. PROVIDE MIN. L4X4X1/4 EDGE ANGLE AT PERIMETER OF ALL ROOF DECK, TYPICAL UNO.

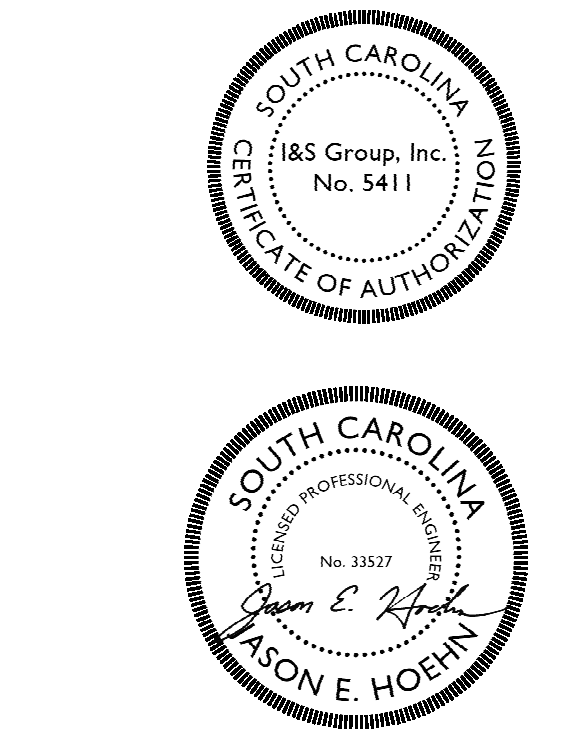


1 ROOF FRAMING PLAN
1/8" = 1'-0"



4 OUTSET GIRT CONNECTION
3/4" = 1'-0"

5 EAST ROOF PARAPET FRAMING DETAIL
3/4" = 1'-0"



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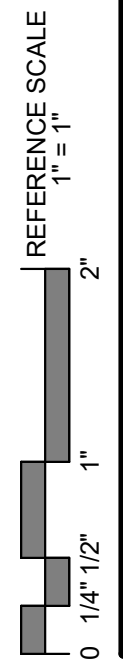
PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
WEST COLUMBIA SOUTH CAROLINA

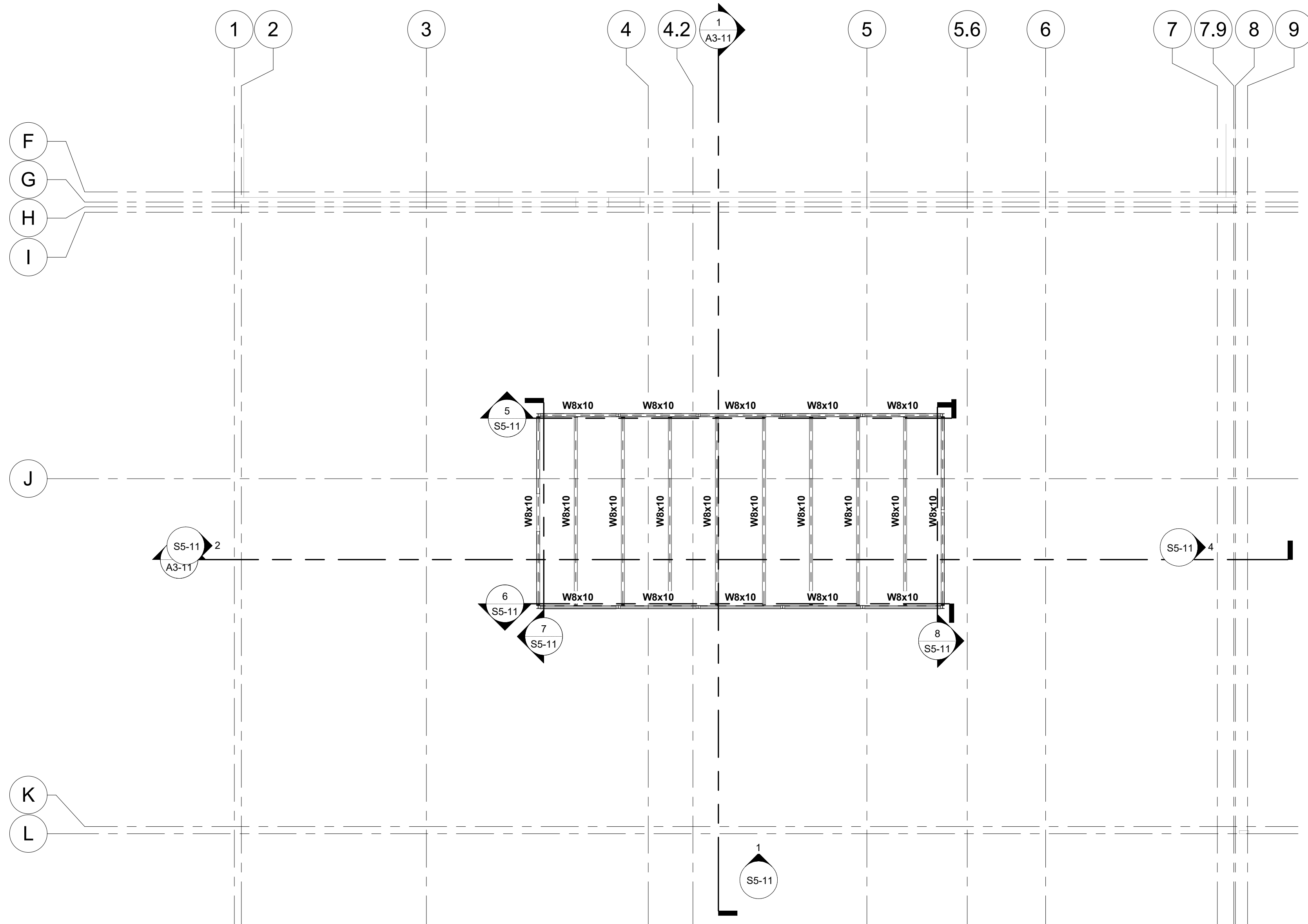
REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MZ

PROJECT NO.	22-26670
FILE NAME	
DRAWN BY	MCZ
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REVIEWED BY	JEH
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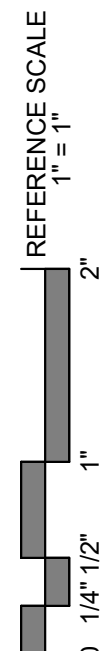
TITLE
ROOF FRAMING PLAN

SHEET
S4-11

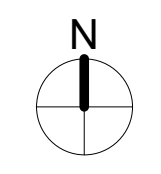




1 ROOF FRAMING PLAN
1/8" = 1'-0"



5/27/2022 4:52:19 PM



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PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

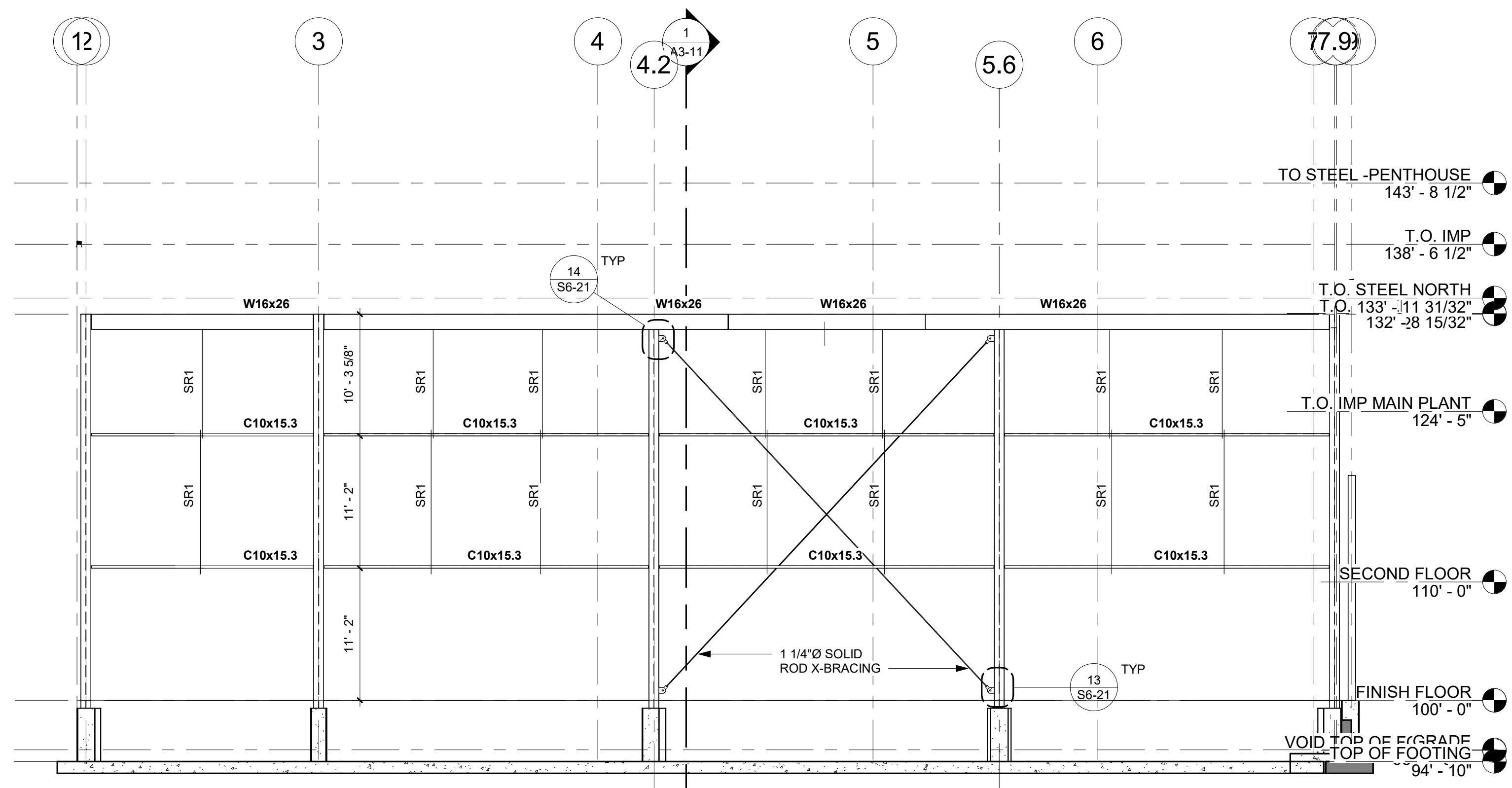
PROJECT NO. 22-26670
FILE NAME
DRAWN BY MCZ
DESIGNED BY MCZ
REVIEWED BY JEH
ORIGINAL ISSUE DATE 05/27/22
CLIENT PROJECT NO.

TITLE
PENTHOUSE FRAMING PLAN

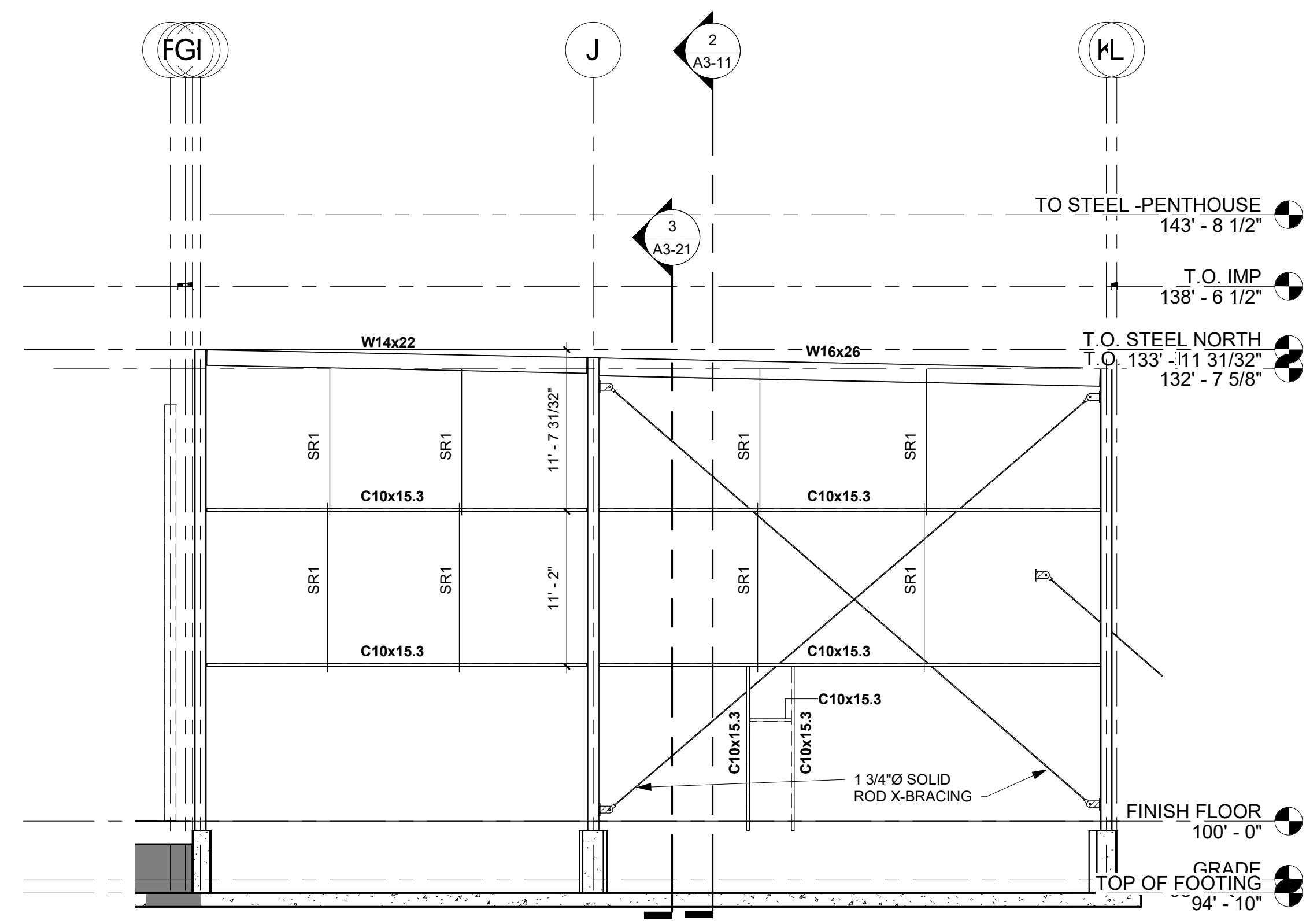
SHEET
S4-12

SHEET NOTES

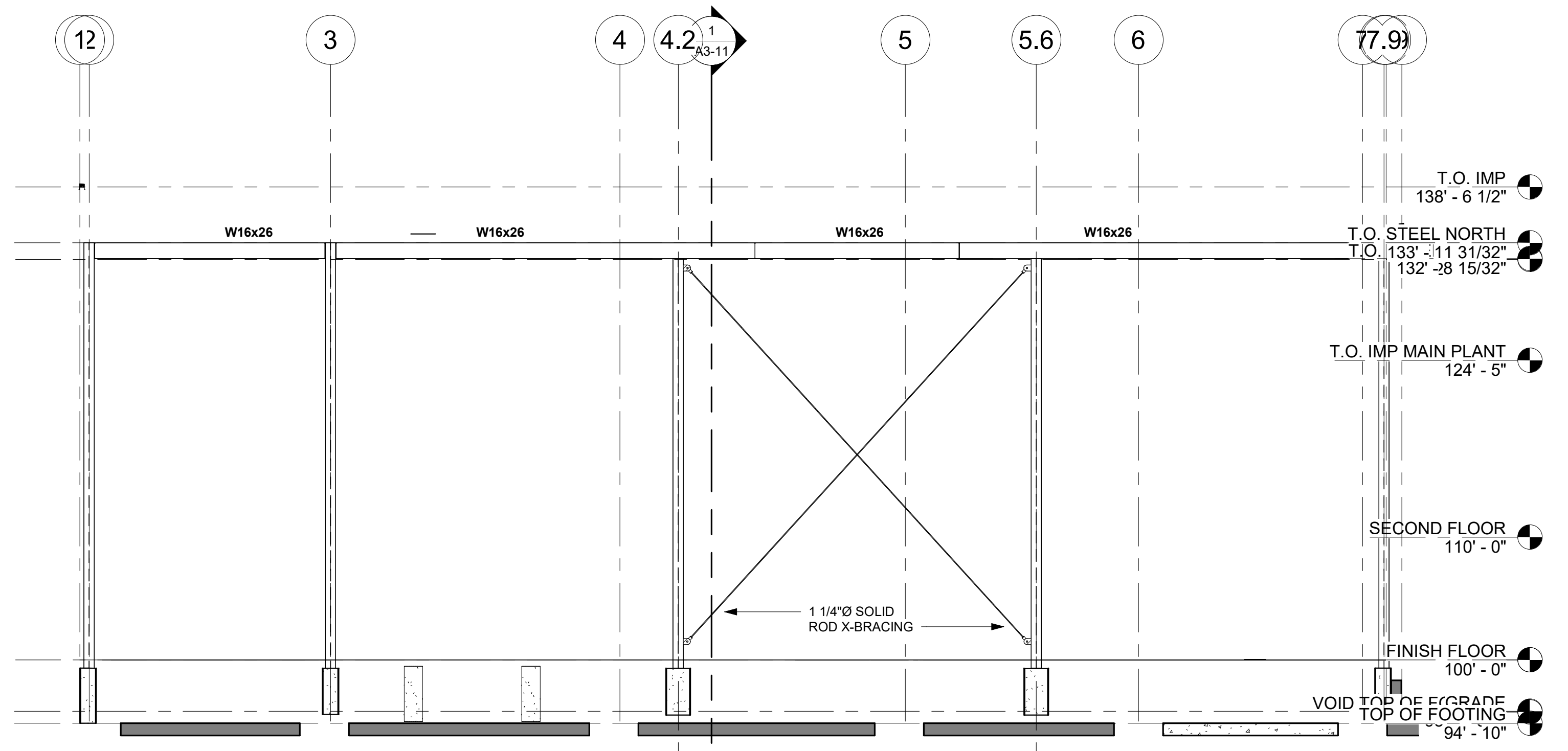
- SRI - INDICATES 1/20 SAG ROD, DOUBLE NUT TOP AND BOTTOM, SPOIL THREADS WHEN INSTALLATION IS COMPLETE. ALIGN SAG RODS WITHIN INNER 1/3 OF GIRT.
- ALL SOLID ROD X-BRACING TO BE SHOP PRIMED AND PAINTED.



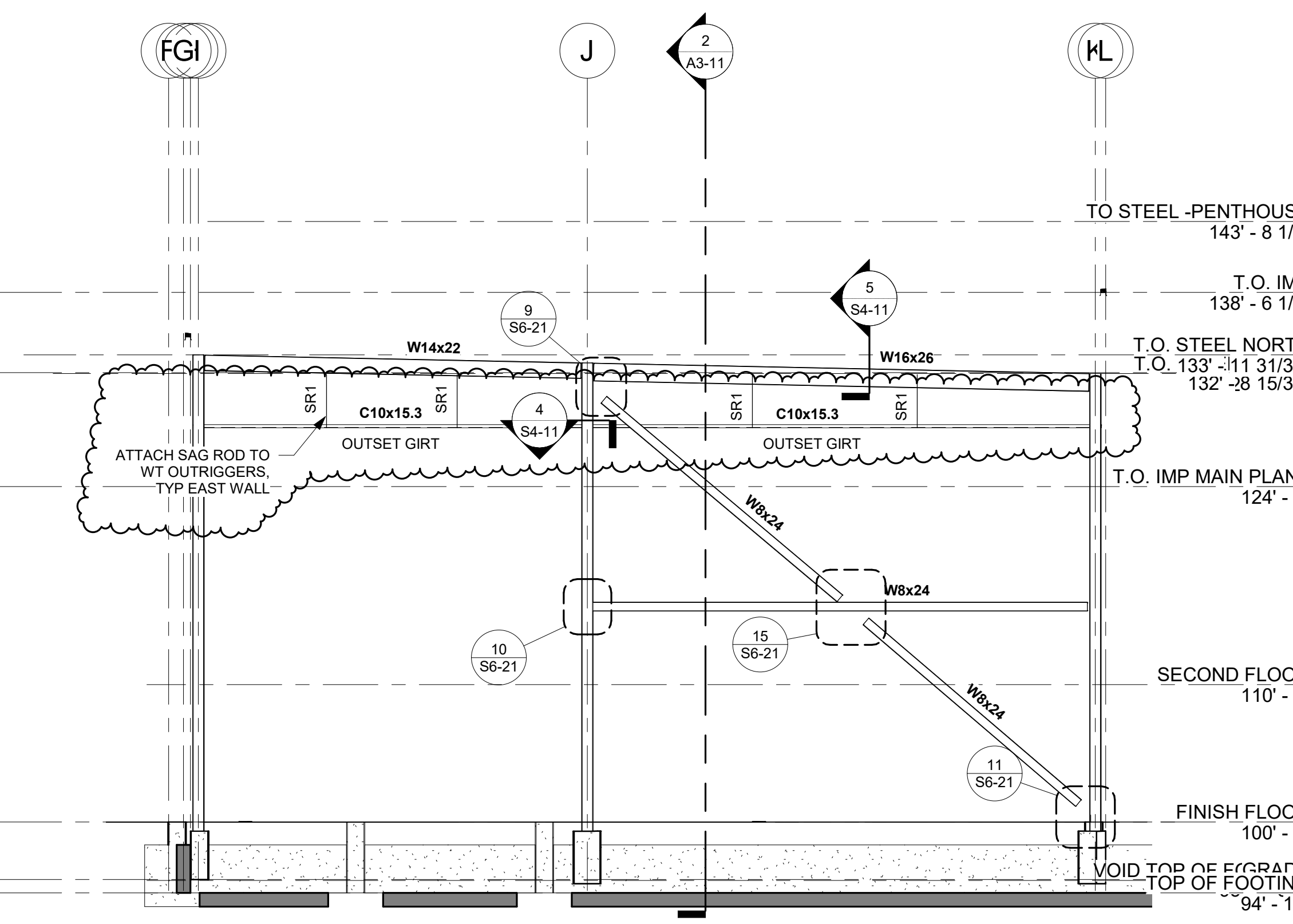
1 FRAMING ELEVATION AT GRID K
1/8" = 1'-0"



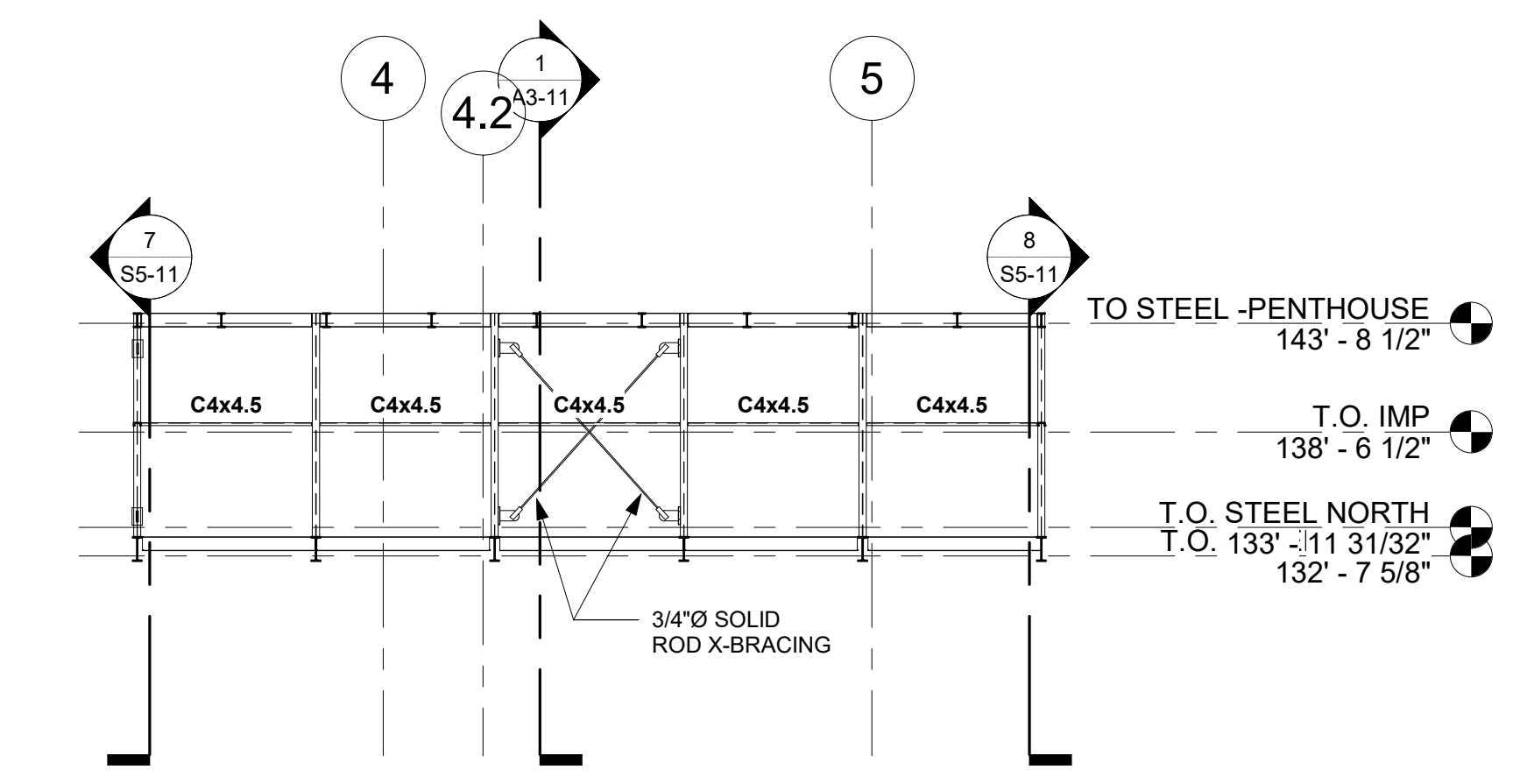
2 FRAMING ELEVATION AT GRID 2
1/8" = 1'-0"



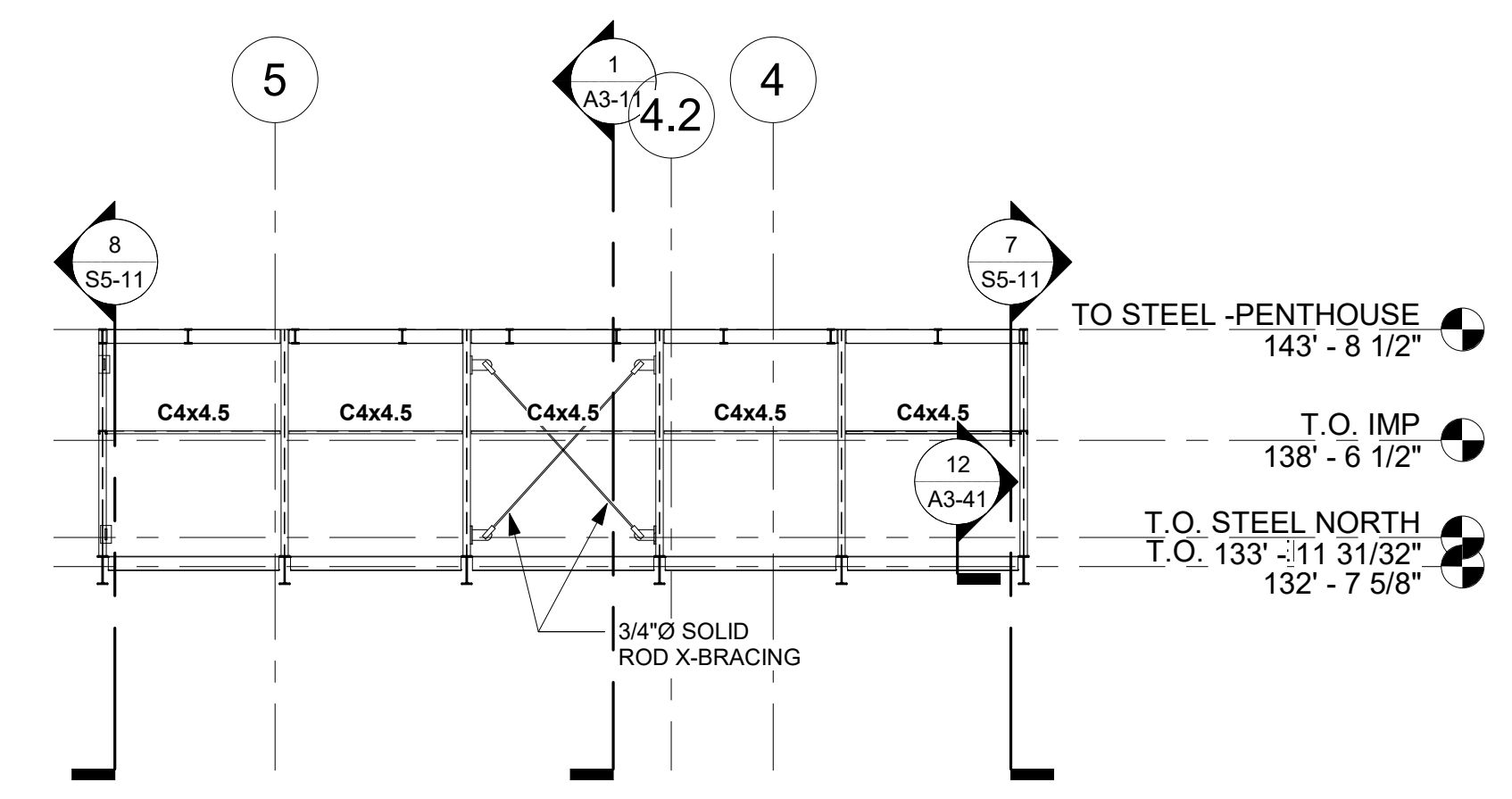
3 FRAMING ELEVATION AT GRID I
1/8" = 1'-0"



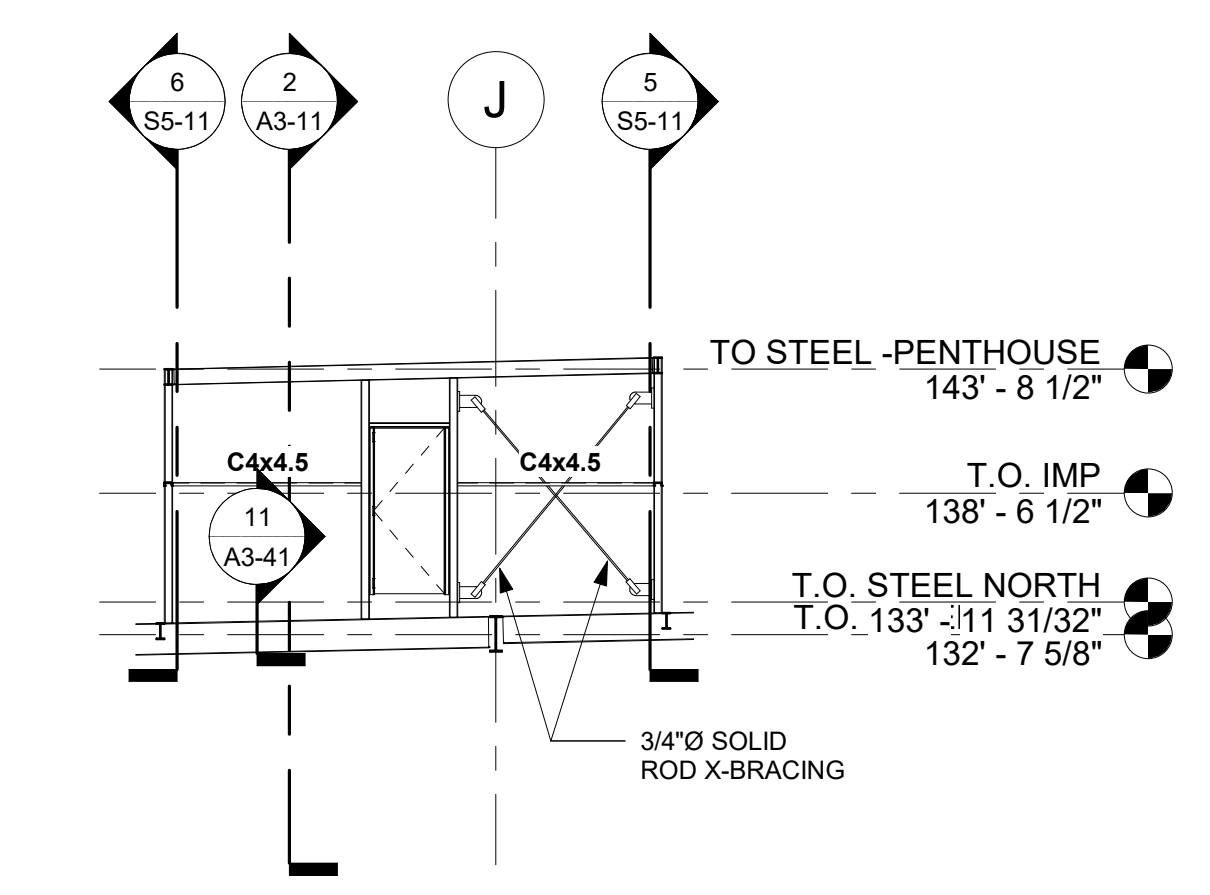
4 FRAMING ELEVATION AT GRID 7.9
1/8" = 1'-0"



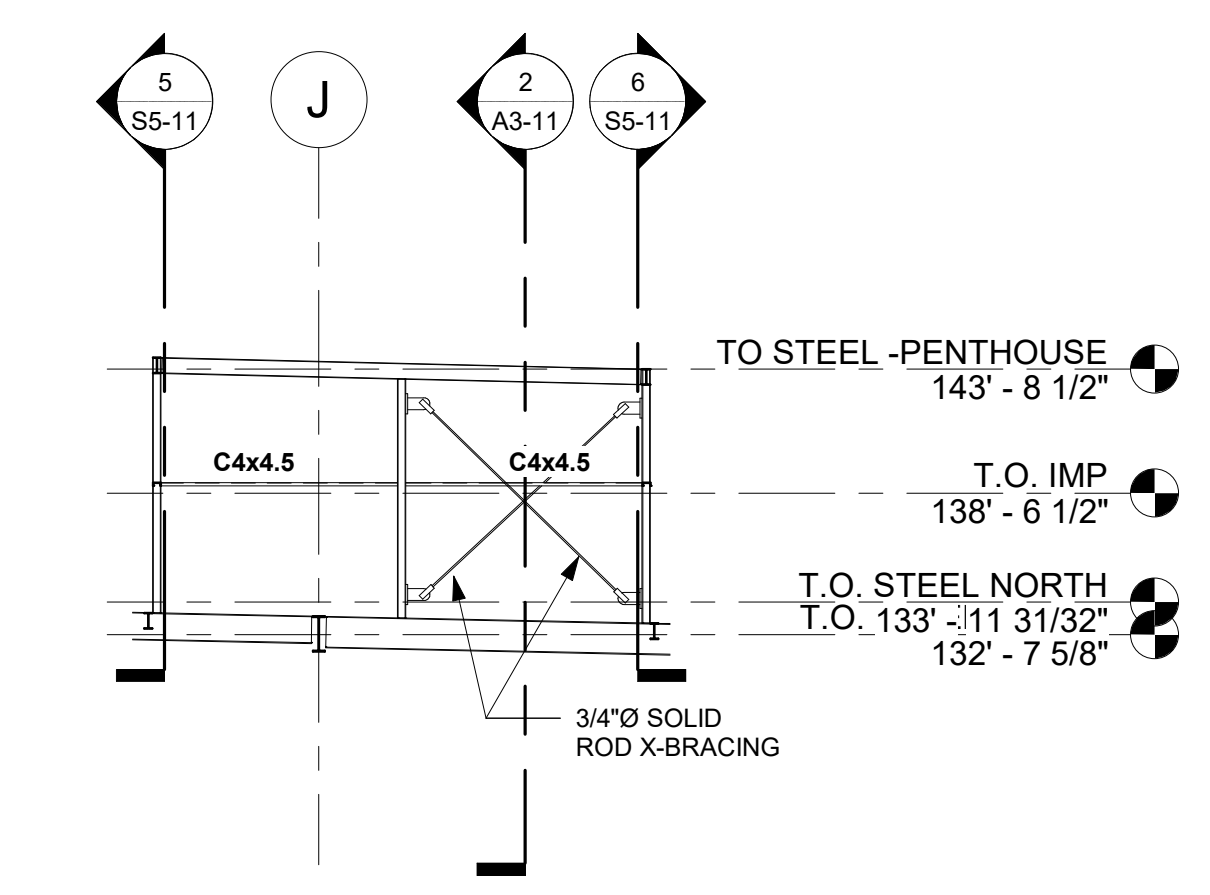
5 NORTH WALL OF STEEL PENTHOUSE
1/8" = 1'-0"



6 SOUTH WALL OF STEEL PENTHOUSE
1/8" = 1'-0"



7 WEST WALL OF STEEL PENTHOUSE
1/8" = 1'-0"



8 EAST WALL OF STEEL PENTHOUSE
1/8" = 1'-0"

REFERENCE SCALE
1" = 1'-0"
0 1/4" 1/2" 3/4" 1" 2"

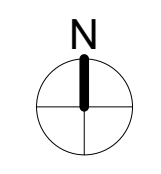
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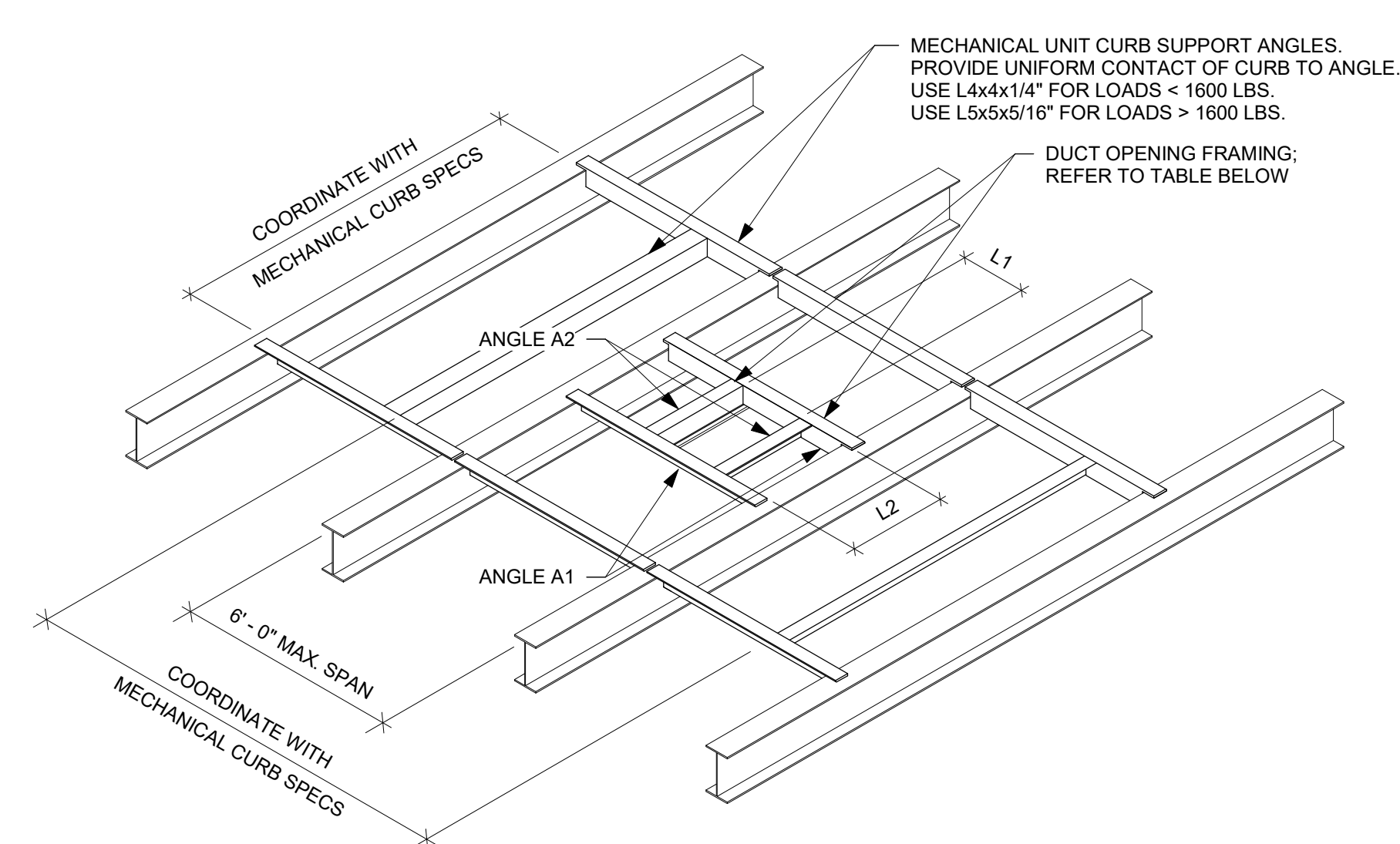
PROJECT
BURKE INDUSTRIAL INC. CARGILL COOLER EXPANSION
WEST COLUMBIA SOUTH CAROLINA

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
08/17/22	ADDENDUM 01	PS/MZ

PROJECT NO. 22-26670
FILE NAME
DRAWN BY MCZ
DESIGNED BY MCZ
REVIEWED BY JEH
ORIGINAL ISSUE DATE 05/27/22
CLIENT PROJECT NO.

TITLE
STRUCTURAL FRAMING ELEVATIONS
SHEET
S5-11

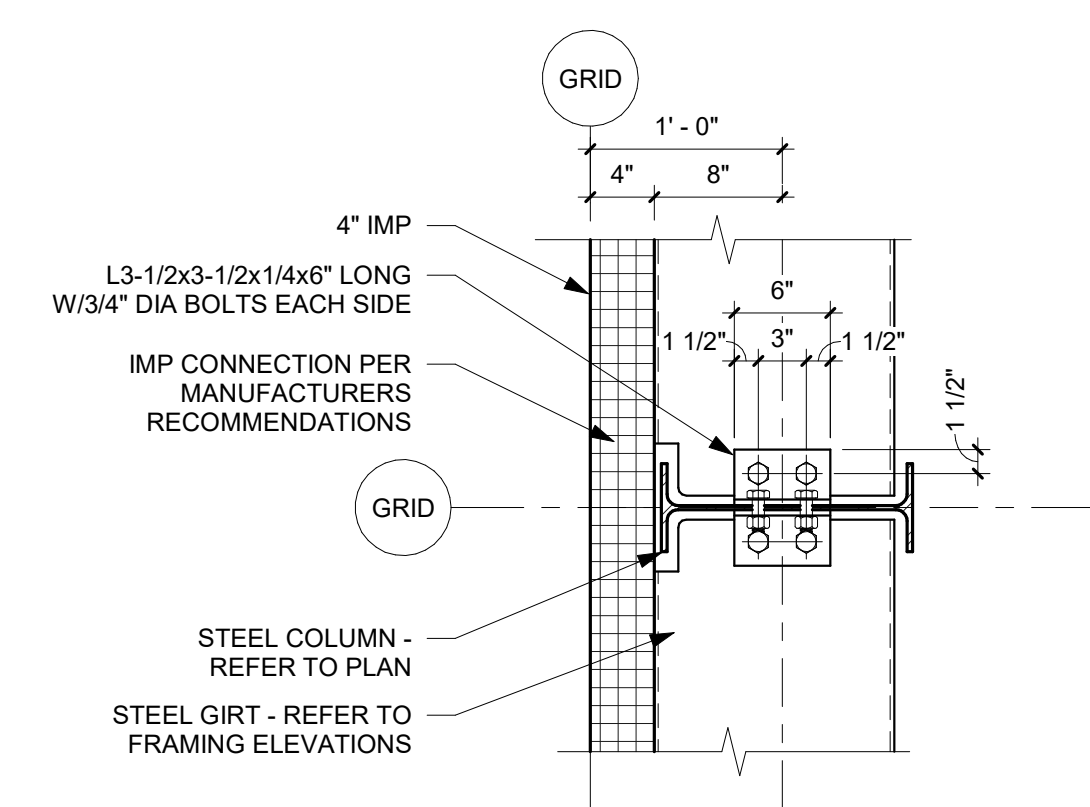




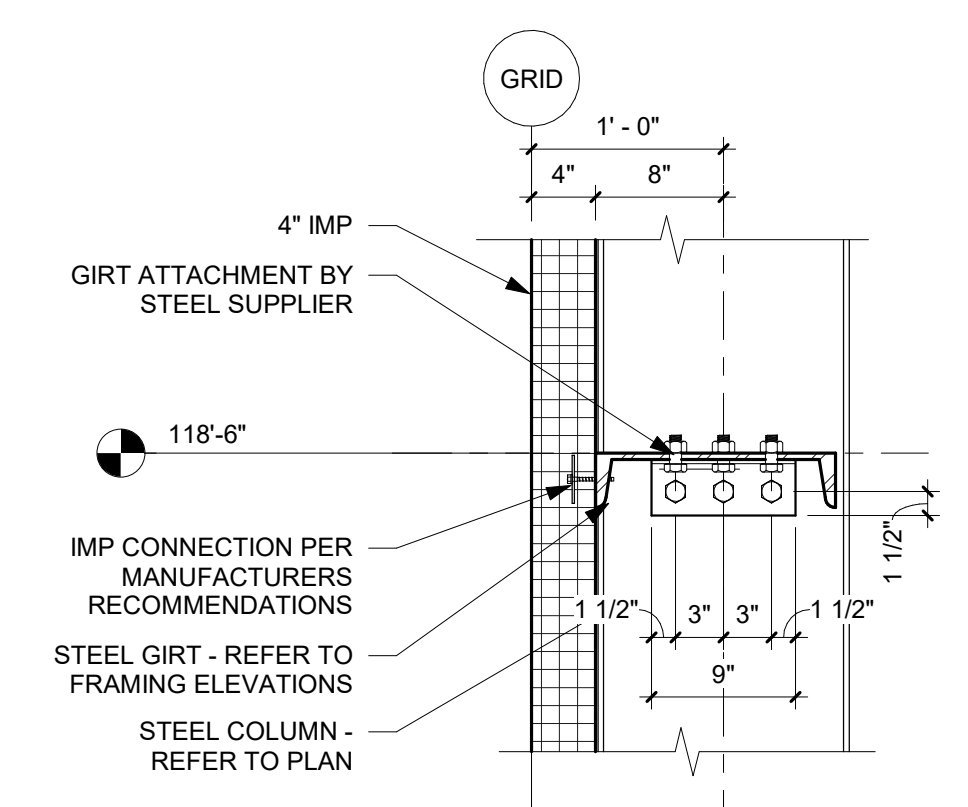
ROOF OPENING FRAMING LEGEND

L1 OR L2 (WHICHEVER IS LARGER)	ANGLE A1	ANGLE A2
≤ 1'-0"	NONE REQUIRED	NONE REQUIRED
≤ 2'-0"	L3x3x3/16	L2x2x3/16
≤ 3'-0"	L3 1/2x3x1/4 (LLV)	L3x3x3/16
≤ 4'-0"	L4x3x1/4 (LLV)	L3x3x1/4
≤ 5'-0"	L5x3x1/4 (LLV)	L3 1/2x3 1/2x1/4
≤ 6'-0"	L6x4x5/16 (LLV)	L4x4x1/4

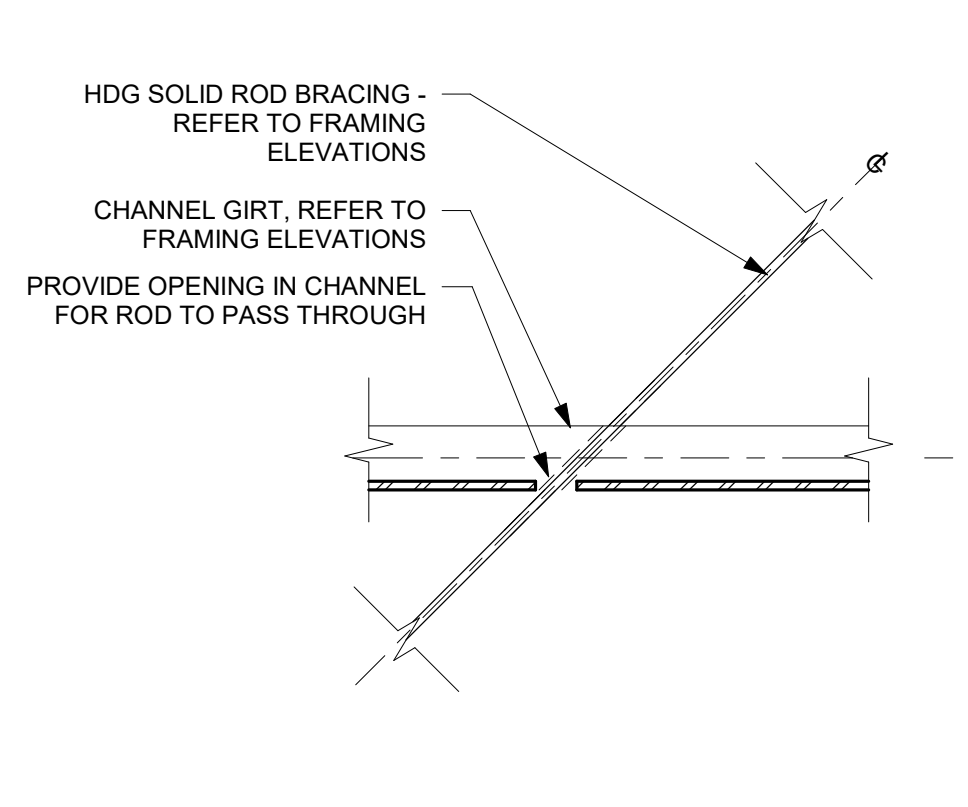
1. FRAMING LEGEND SHALL BE USED AT ALL NEW ROOF OPENINGS THAT EXCEED 1'-0" IN EITHER DIRECTION, TYPICAL UNO.
 2. REFER TO MECHANICAL DOCUMENTS FOR SIZE AND LOCATION OF ALL DUCT PENETRATIONS THROUGH ROOF.
 3. REFER TO STRUCTURAL DOCUMENTS FOR ADDITIONAL OR ALTERNATE FRAMING METHODS.



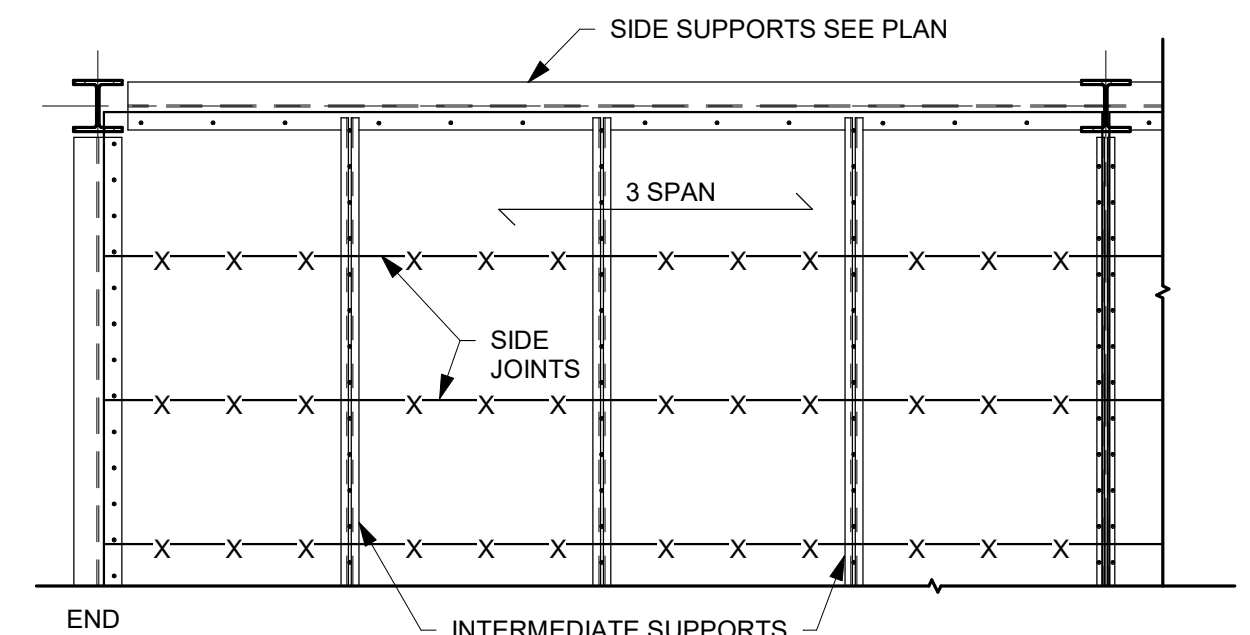
2 GIRT CONNECTION DETAIL
1" = 1'-0"



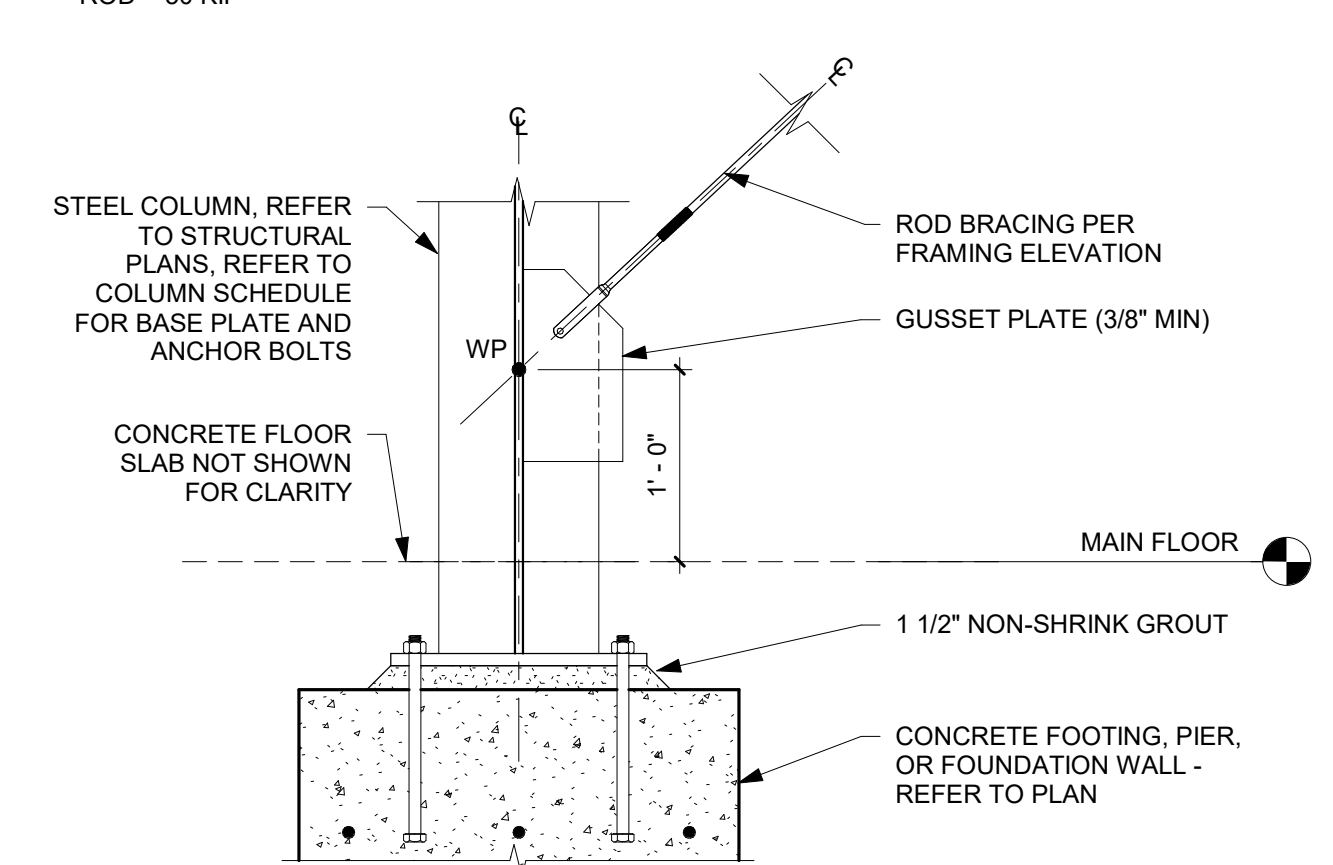
3 GIRT CONNECTION SECTION
1" = 1'-0"



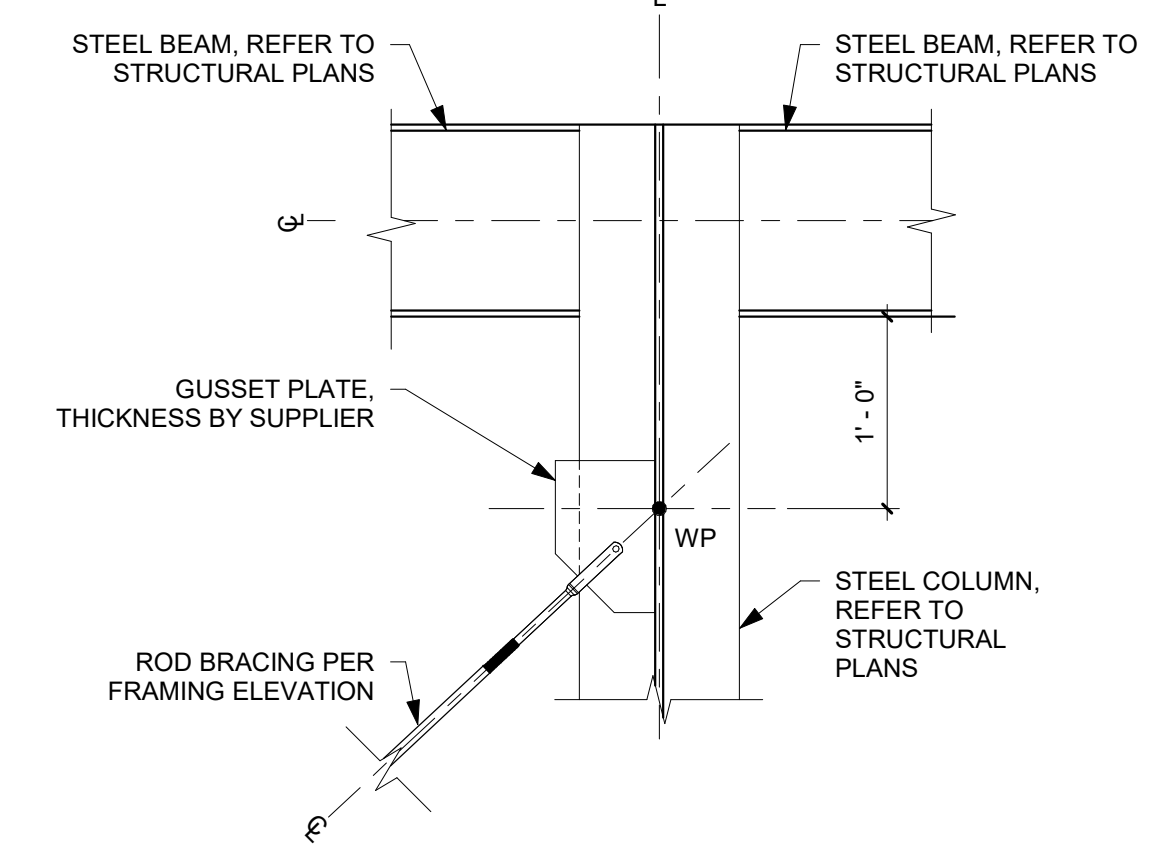
7 BRACE THRU GIRT
1" = 1'-0"



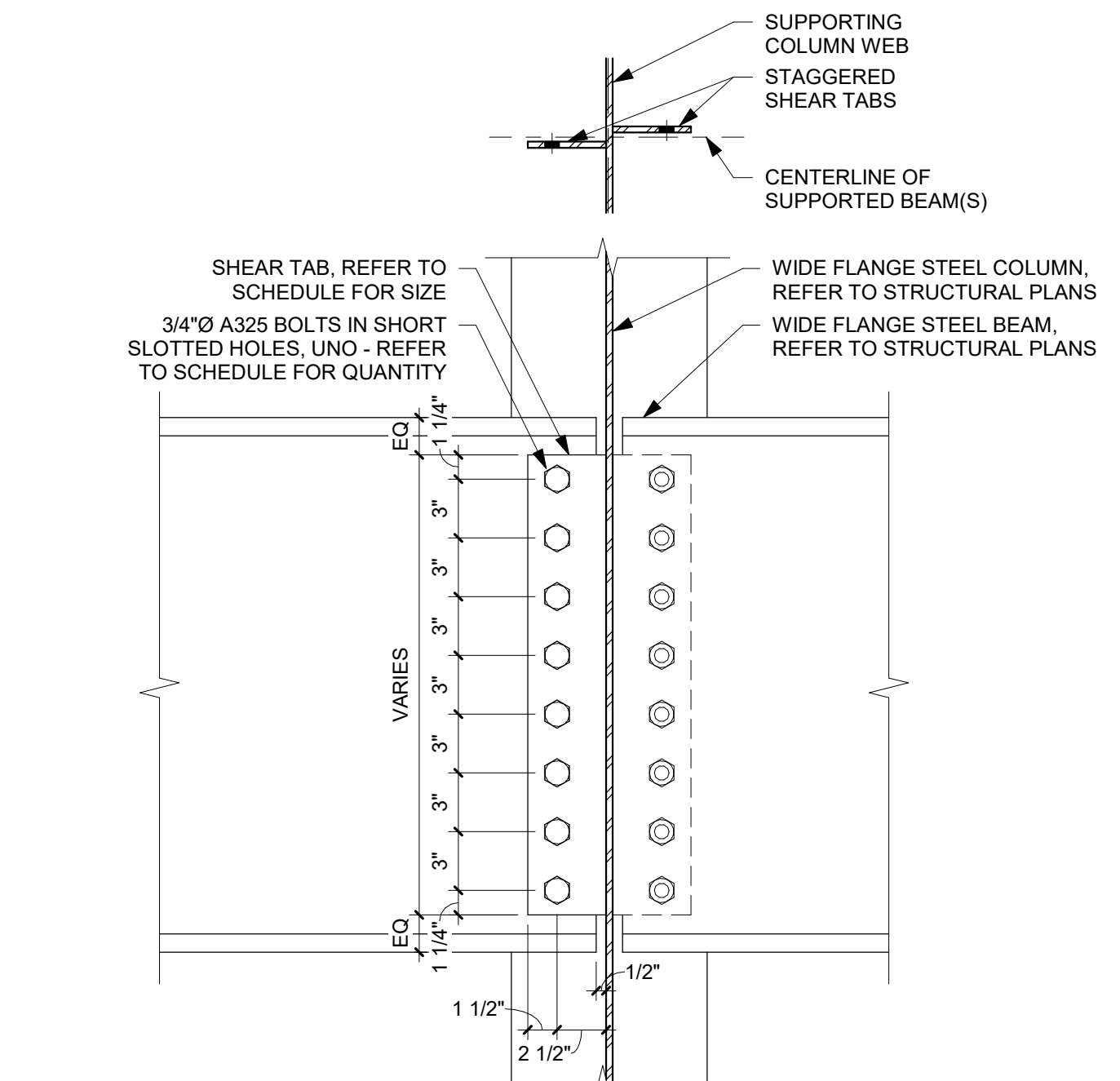
12 DECK ATTACHMENT PATTERN
3/8" = 1'-0"



13 LOWER X-BRACE CONNECTION
1" = 1'-0"



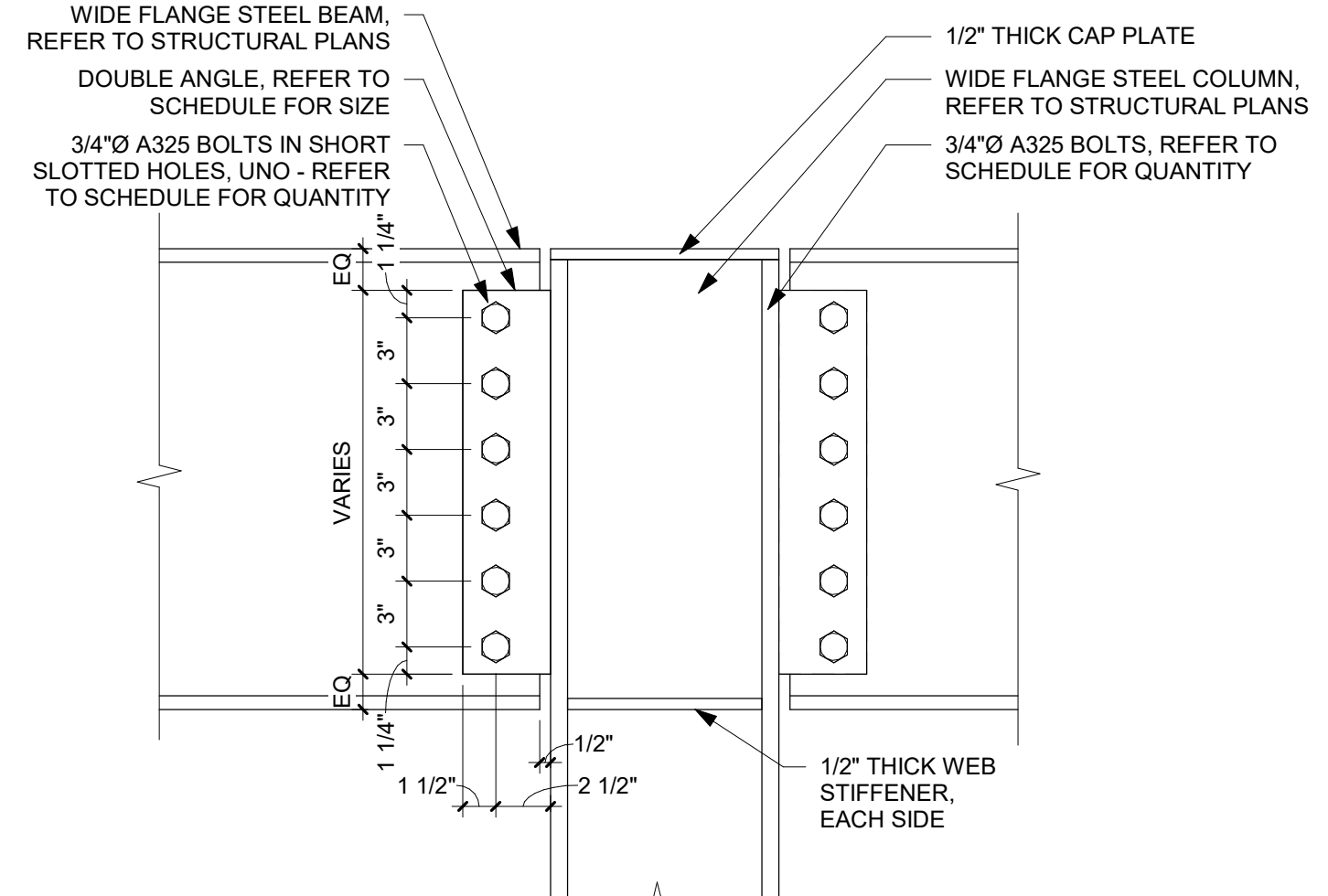
14 UPPER X-BRACE CONNECTION
1" = 1'-0"



BEAM/COLUMN CONNECTION SCHEDULE

BEAM SHAPE	SHEAR TAB SIZE	NO. OF BOLTS
W8	4" x 5/16"	2
W10	4" x 5/16"	3
W12	4" x 5/16"	3
W14	4" x 5/16"	4
W16	4" x 5/16"	4
W18	4" x 5/16"	5
W21	4" x 5/16"	6
W24	4" x 5/16"	7
W27	4" x 5/16"	8

4 SHEAR TAB STEEL BEAM/COLUMN CONNECTION DETAIL, TYPICAL UNO
1 1/2" = 1'-0"



BEAM/COLUMN CONNECTION SCHEDULE

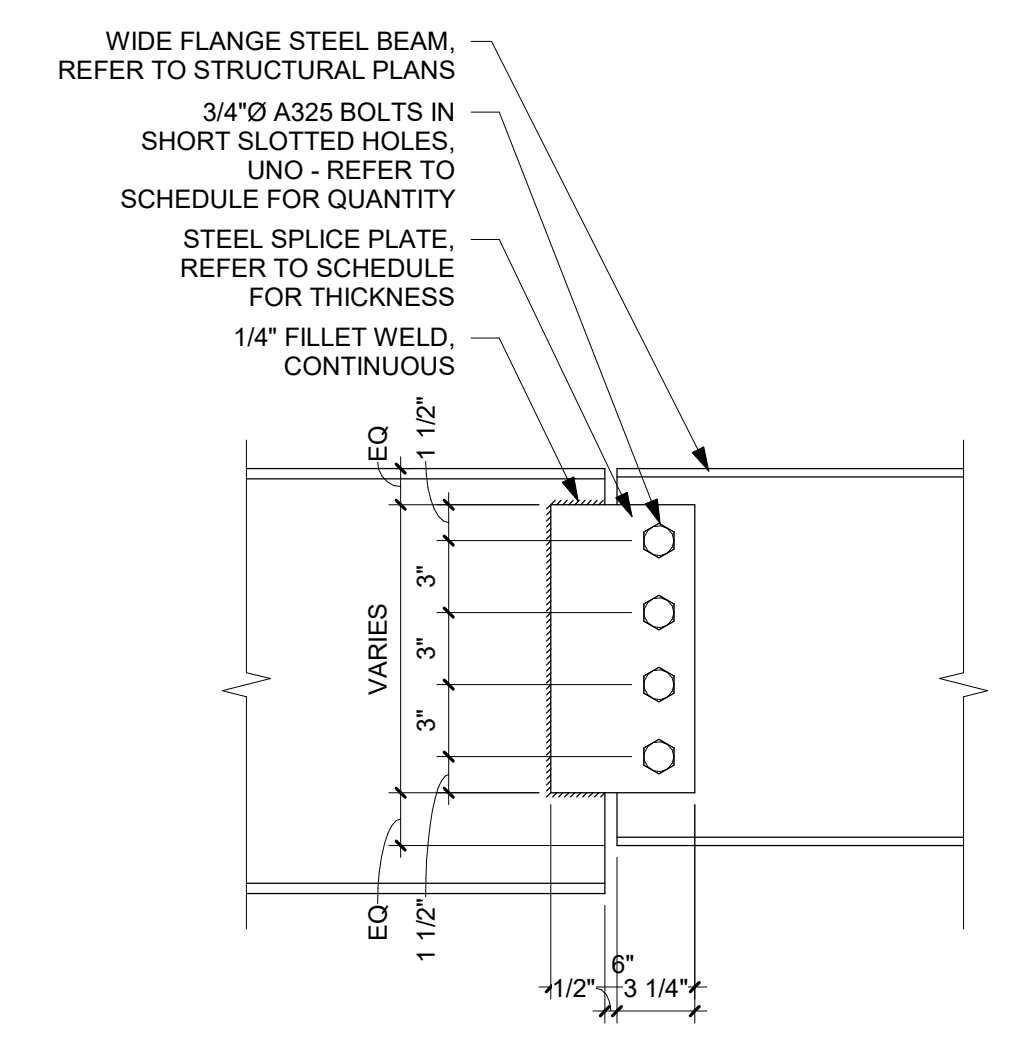
BEAM SHAPE	SHEAR TAB SIZE	NO. OF BOLTS
W8	4" x 5/16"	2
W10	4" x 5/16"	3
W12	4" x 5/16"	3
W14	4" x 5/16"	4
W16	4" x 5/16"	4
W18	4" x 5/16"	5
W21	4" x 5/16"	6
W24	4" x 5/16"	7
W27	4" x 5/16"	8

5 TYPICAL TOP OF COLUMN TYPICAL SHEAR TAB STEEL BEAM/COLUMN CONNECTION DETAIL
1 1/2" = 1'-0"

BEAM/BEAM CONNECTION SCHEDULE

BEAM SHAPE	PLATE THICKNESS	NO. OF BOLTS	BOLT Ø	BOLT SPACING	BOLT EDGE DISTANCE
W6, C6	1/4"	2	1/2"	2 1/2"	1 1/4"
W8, C8	5/16"	2	3/4"	3"	1 1/2"
W10, C10	5/16"	2	3/4"	3"	1 1/2"
W12, C12	5/16"	3	3/4"	3"	1 1/2"
W14	5/16"	3	3/4"	3"	1 1/2"
W16	5/16"	4	3/4"	3"	1 1/2"
W18	5/16"	5	3/4"	3"	1 1/2"
W21	3/8"	6	3/4"	3"	1 1/2"

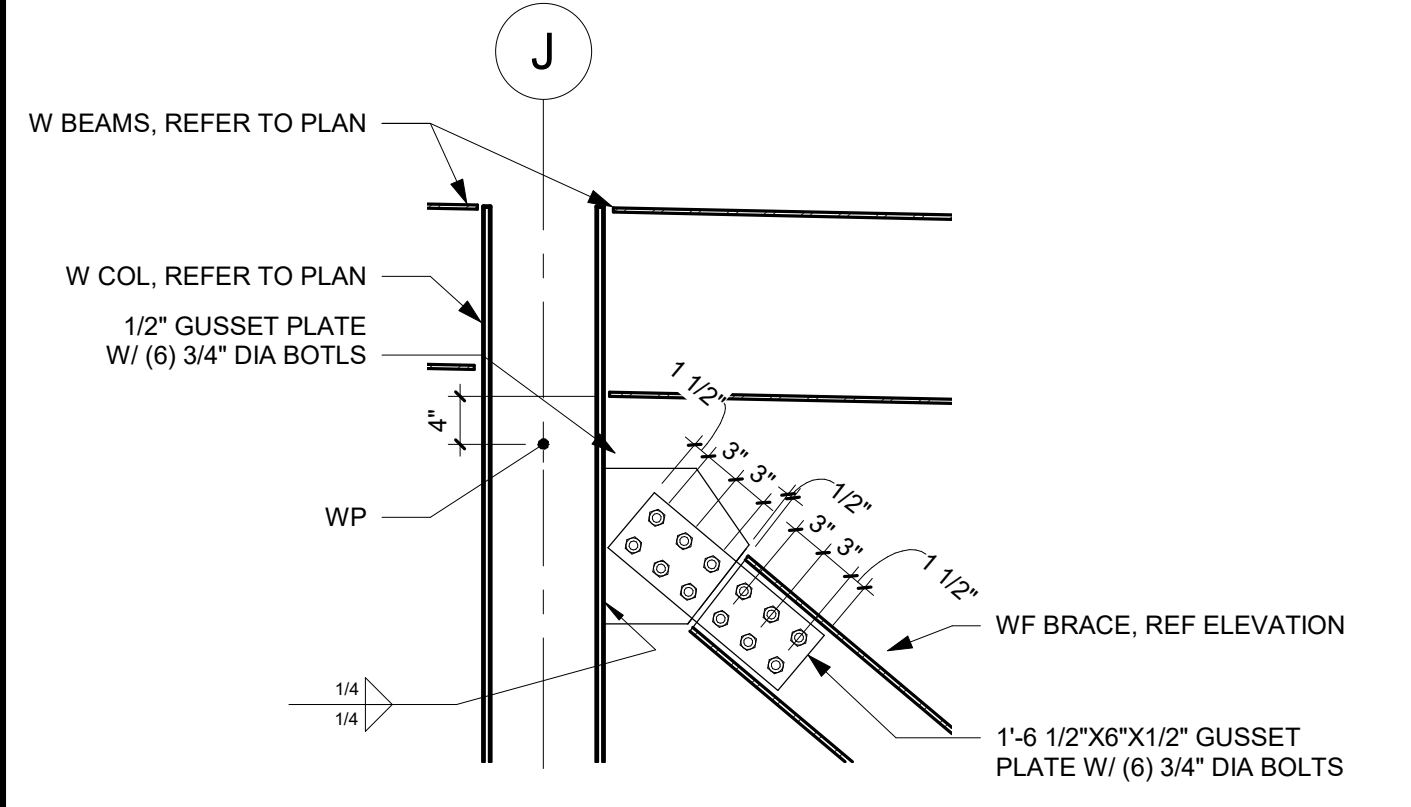
6 TYPICAL STEEL BEAM CONNECTION DETAIL
1 1/2" = 1'-0"



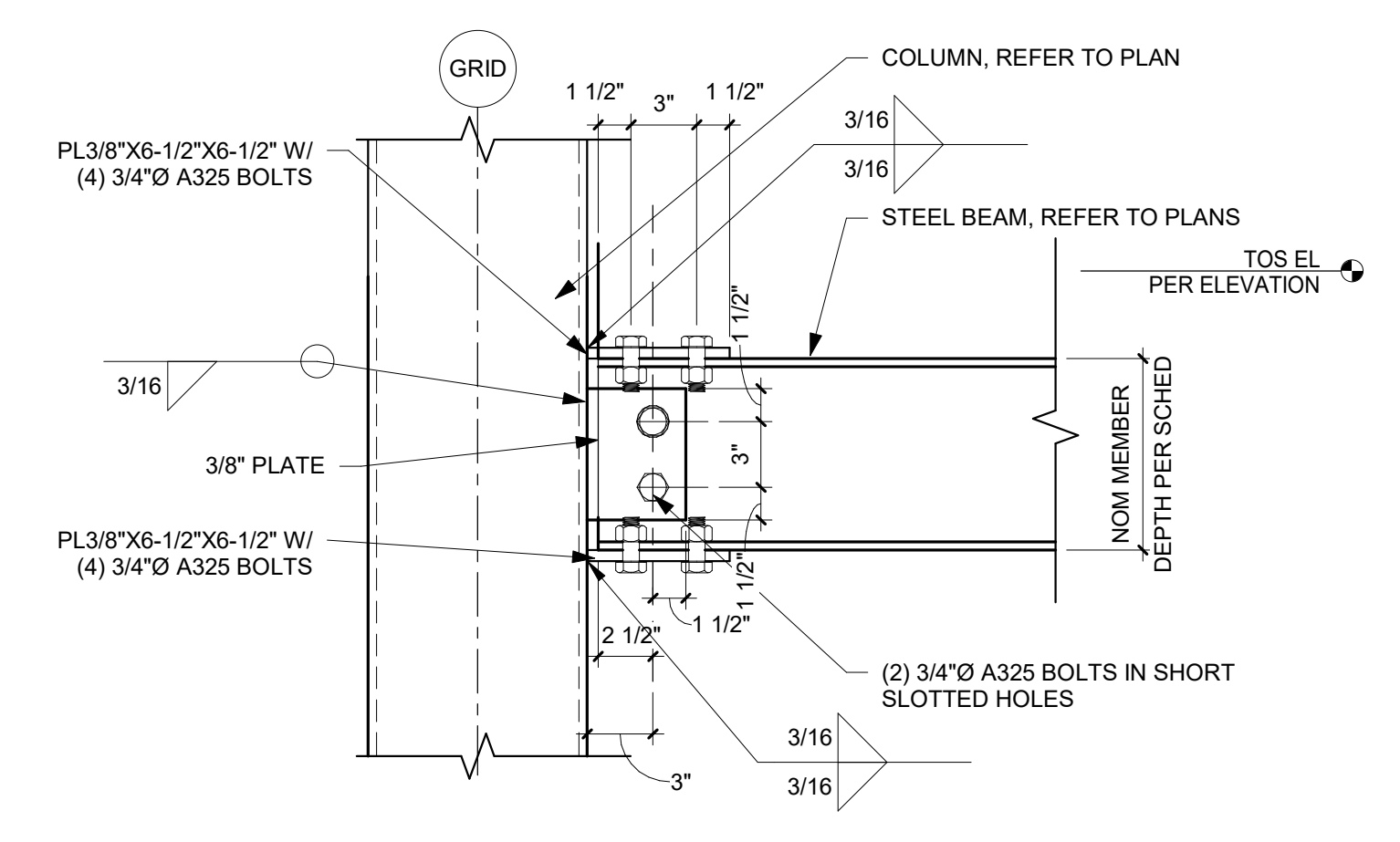
SPLICE CONNECTION SCHEDULE

BEAM SHAPE	PLATE THICKNESS	NO. OF BOLTS
W16	(2) 1/2"	4
W18	(2) 1/2"	5

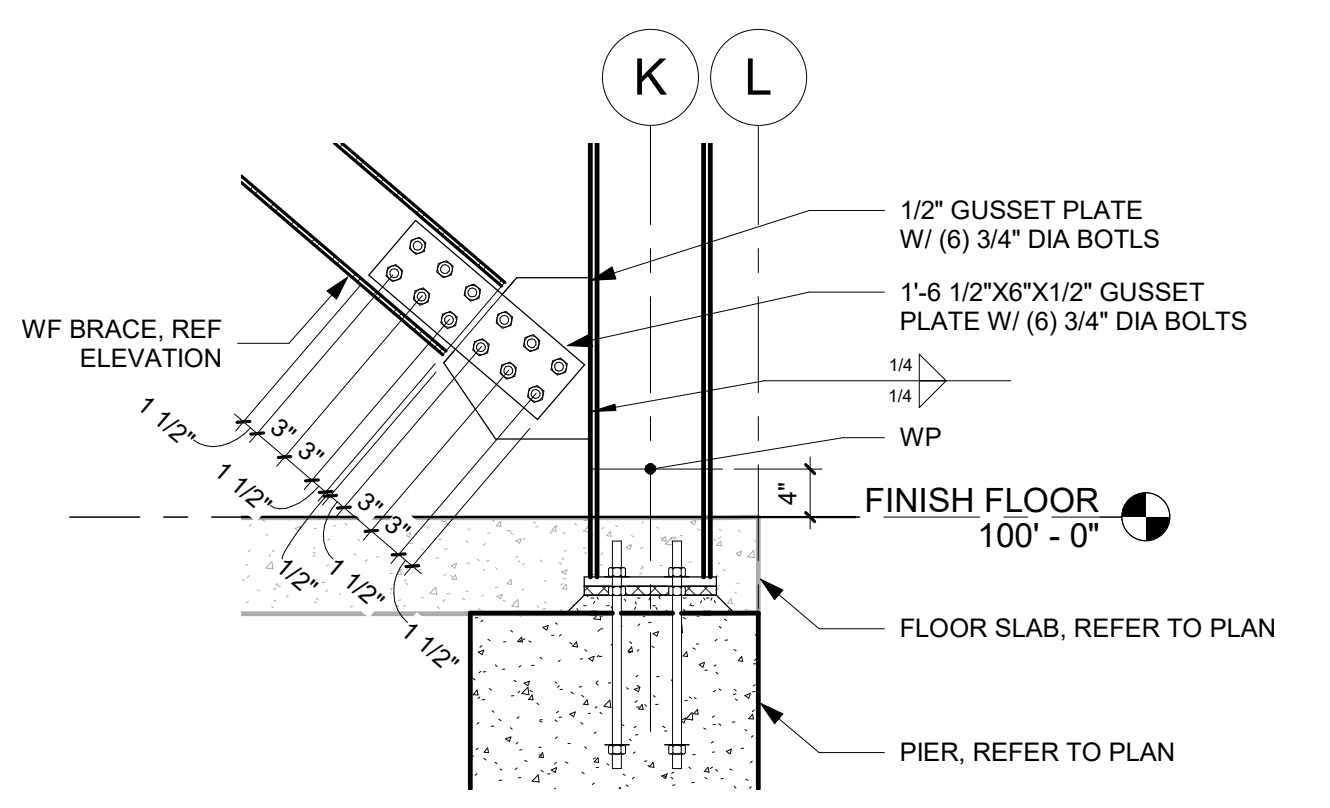
8 TYPICAL STEEL BEAM SPLICE DETAIL
1 1/2" = 1'-0"



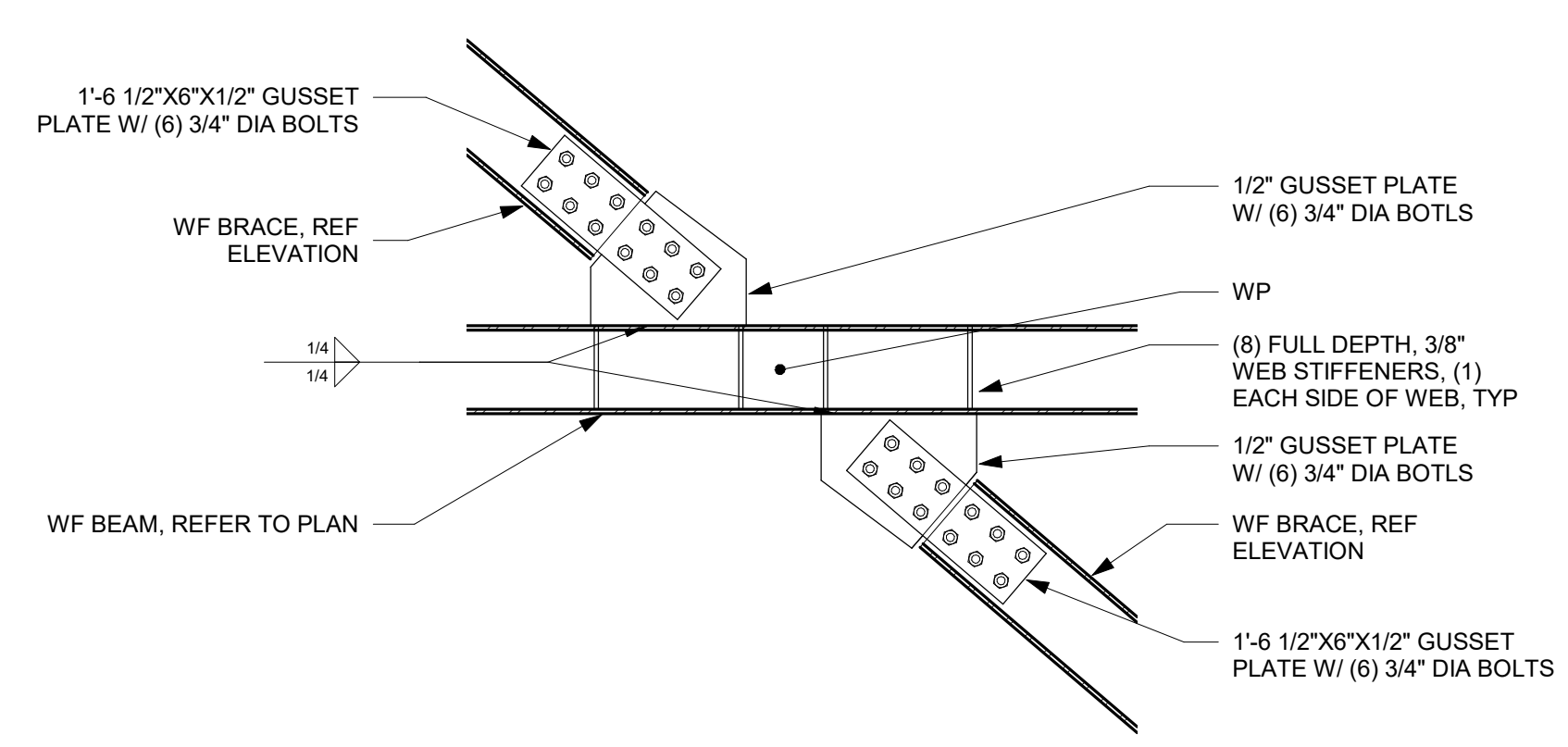
9 UPPER WIDE FLANGE ANGLE BRACE CONNECTION
3/4" = 1'-0"



10 TYPICAL BEAM MOMENT CONNECTION TO WF COLUMN
1 1/2" = 1'-0"



11 LOWER WIDE FLANGE ANGLE BRACE CONNECTION
3/4" = 1'-0"



15 WIDE FLANGE ANGLE BRACE TO BEAM CONNECTION
3/4" = 1'-0"

REFERENCE SCALE
0 1/4" 1/2" 1" 2"



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WEST COLUMBIA SOUTH CAROLINA

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CLIENT PROJECT NO.

TITLE

ROOF FRAMING DETAILS