

MSU PARKING GARAGE SAFETY UPGRADES PHASE 01

516 W GRANT
BOZEMAN, MT, 59717

ISSUE DATE: 09/24/2026



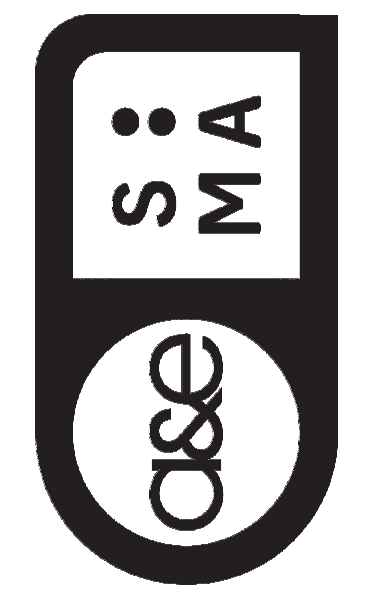
KEY PLAN

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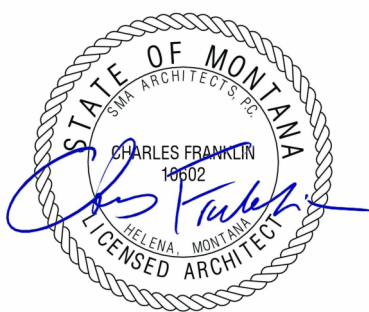


MSU-CAMPUS PLANNING,
DESIGN, AND CONSTRUCTION
MONTANA STATE UNIVERSITY
BOZEMAN, MONTANA 59717-0001
PHONE: 406/994-5411
FAX: 406/994-5405

100% CONSTRUCTION DOCUMENTS MSU PARKING GARAGE SAFETY UPGRADES PHASE 01



DRAWN BY: EK		
REVIEWED BY: JS		
REV.	DESCRIPTION	DATE



PPA#26-1462

Consultant #:

COVER SHEET

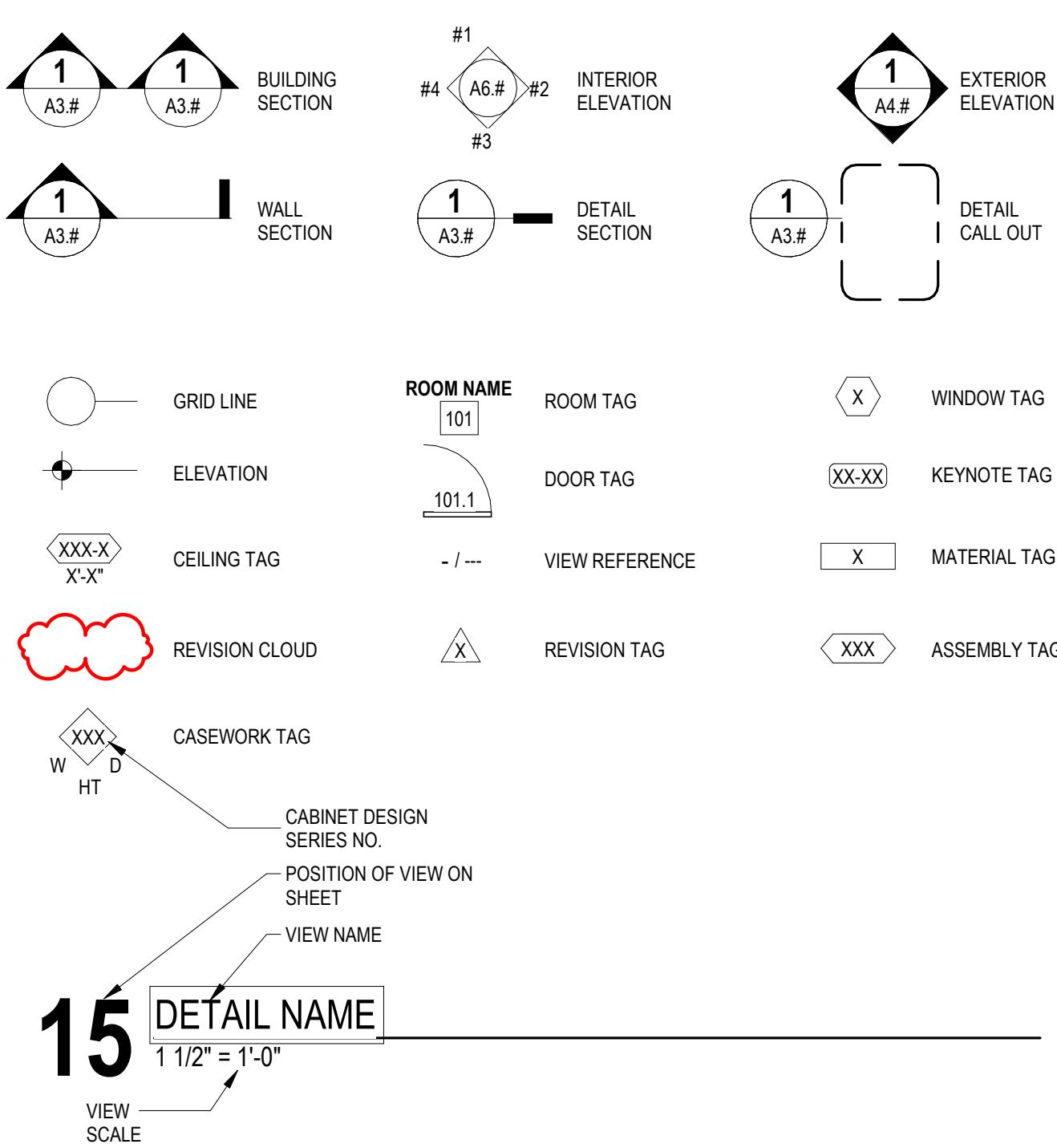
SHEET
G0.0

DATE
09/24/2026

ARCHITECTURAL ABBREVIATIONS

AB	ANCHOR BOLT	GA	GAUGE	R	RADIUS
ABV	ABOVE	GAUV	GALVANIZED	RA	RETURN AIR
AC	AIR CONDITIONING	GB	GYPSPUM BOARD	RB	RUBBER BASE
ACT	ACoustical CEILING TILE	GC	GENERAL CONTRACTOR	RD	ROOF DRAIN
ADOL	ADDITIONAL	GL	GLASS GLAZING	RECY	RECYCLED
ADJ	ADJUSTABLE	GWB	GYPSPUM WALL BOARD	REF	REFERENCE
AF	ABOVE FINISH FLOOR	GYP	GYPSPUM	REFRIG	REFRIGERATOR OR REFRIGERATION
ALT	ALTERNATE	HC	HANDCAP	RENF	REINFORCEMENT
ALUM	ALUMINUM	HDR	HEADER	REOD	REQUIRED
ARCH	ARCHITECTURAL	HOW	HARDWARE	ROM	ROOM
AWN	AWNING	HM	HOLLOW METAL	RO	ROUGH OPENING
B	BOTTOM OF	HORZ	HORIZONTAL	ROW	RIGHT OF WAY
BD	BOARD	HR	HOURS		
BLDG	BUILDING	HT	HEIGHT	S	SOUTH
BLKG	BLOCKING	HTD	HEATED	SC	SOLID CORE
BM	BEAM OR BENCHMARK	HVAC	HEATING/VENTILATION & AIR CONDITIONING	SCH	SCHEDULE
BRG	BEARING	ID	INSIDE DIAMETER	SCHD	SCHEDULED
BTWN	BETWEEN	INFO	INFORMATION	SF	SQUARE FEET
BUR	BUILT-UP ROOF	INSUL	INSULATE / INSULATED / INSULATION	SFRM	SPRAY APPLIED FIRE RESISTIVE
CAB	CABINET	INT	INTERIOR	SGL	SINGLE
CJ	CONTROL JOINT	INV	INVERT	SHT	SHEET
CL	CENTERLINE	JBOX	JUNCTION BOX	SHG	SHED
CLG	CEILING	JT	JOINT	SHM	SIMILAR
CMU	CONCRETE MASONRY UNIT	JTBOX	JUNCTION BOX	SHTG	SHEATHING
CO	CLEAN OUT	KIT	KITCHEN	SHM	SIMILAR
COL	COLUMN	L	LONG / LENGTH	SOG	SLAB ON GROUND
CMC	CONCRETE	LAM	LAMINATE	SS	STAINLESS STEEL
CONT	CONTINUOUS	LAV	LAVATORY	ST	STONE TILE
CONST	CONSTRUCTION	LT	LIGHT	STD	STANDARD
CG	CORNER GUARD	MAS	MASONRY	STL	STEEL
CPT	CARPET	MATL	MATERIAL	STRUCT	STRUCTURAL
CSMT	CASHEMENT	MECH	MECHANICAL		
CT	CERAMIC TILE	MEZZ	MEZZANINE		
		MFR	MANUFACTURER		
		MIN	MINIMUM		
		MISC	MISCELLANEOUS		
		MO	MASONRY OPENING		
		MTL	METAL		
		N	NORTH		
		NIC	NOT IN CONTRACT		
		NOM	NOMINAL		
		NTS	NOT TO SCALE		
		OC	ON CENTER		
		OD	OUTSIDE DIAMETER OR OVERFLOW		
		OPNG	OPENING		
		OPP	OPPOSITE		
		OSB	ORIENTED STRAND BOARD		
		OVHD	OVERHEAD		
		PL	PLATE		
		PLMB	PLASTIC LAMINATE		
		PLUMB	PLUMBING		
		PLYWD	PLYWOOD		
		PNT	PANEL		
		FIN	FINISH		
		FIXT	FIXTURE		
		FLR	FLOOR		
		FT	FOOTING		
		FND	FOUNDATION		
		FR	FRAME		
		FRMG	FRAMING		
		FT	FEET/FOOT OR FIRE TREATED		
		FTG	FOOTING		
		FTNG	FOOTING		
		FRP	FIBERGLASS REINFORCED		
		FRT	FIRE RETARDANT TREATED		

EXPLANATION OF SYMBOLS



TYPICAL SHEET VIEW NUMBERING LAYOUTS

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

ARCH D (24'x36')

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20

ARCH E1 (36'x42')

DISCLAIMER:
A&E + SMA DESIGN MAKES NO REPRESENTATION AS TO THE COMPLETENESS, APPROPRIATENESS, OR COORDINATION OF INFORMATION PROVIDED BY, AND IS NOT LIABLE FOR, THE WORK OF CONSULTANTS CONTRACTUALLY ENGAGED BY OTHERS.

DELEGATED DESIGN AND DEFERRED/DESIGN-BUILD SUBMITTAL REQUIREMENTS

DELEGATED DESIGN AND DEFERRED/DESIGN-BUILD SUBMITTAL REQUIREMENTS

- REFERENCE THE LIST BELOW FOR DELEGATED DESIGN AND DEFERRED/DESIGN-BUILD ITEMS THE CONTRACTOR IS RESPONSIBLE FOR. THIS LIST MAY NOT BE ALL INCLUSIVE AND THOROUGH REVIEW OF ALL PROJECT SPECIFICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE PORTIONS OF THE PROJECT LISTED BELOW WILL BE CONSTRUCTED USING A DESIGN-BUILD APPROACH. THE DRAWINGS INCLUDED IN THIS PACKAGE ARE PRELIMINARY TO PROVIDE A BASIS FOR PLANNING AND BIDDING.
 - ACTUAL DRAWINGS, DETAILS, AND CALCULATIONS FOR THE PORTIONS OF WORK LISTED AS DEFERRED/DESIGN-BUILD SUBMITTALS ARE TO BE PROVIDED BY THE CONTRACTOR AND SHALL INCLUDE ALL WORK REQUIRED TO IMPLEMENT THE ENTIRE PROJECT SCOPE RELATED TO THESE PORTIONS AND COORDINATION WITH OTHER WORK.
 - DEFERRED/DESIGN-BUILD SUBMITTAL INFORMATION REQUIRES REVIEW OF BOTH ARCHITECT/ENGINEER AND APPROVAL BY THE AUTHORITY HAVING JURISDICTION.
 - PERMIT ACQUISITION FOR THE DEFERRED/DESIGN-BUILD SCOPE OF WORK SHALL BE PROVIDED BY THE CONTRACTOR.
 - THE CONTRACTOR SHALL VERIFY ALL UTILITIES AND EQUIPMENT, AND COORDINATE EQUIPMENT REQUIREMENTS AND LOCATIONS.
 - THE PROCEDURE FOR DEFERRED/DESIGN-BUILD SUBMITTAL IS AS FOLLOWS:
 - INITIAL DESIGN REVIEW SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR PRELIMINARY REVIEW.
 - FINAL DESIGN, ENGINEERING, AND SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW. SUCH DRAWINGS SHALL BE STAMPED AND SIGNED BY AN ENGINEER WHEN REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
 - FOLLOWING THE ARCHITECT'S REVIEW, THE CONTRACTOR SHALL SUBMIT TO THE AUTHORITY HAVING JURISDICTION FOR PERMIT APPROVAL AND ACQUISITION.
 - PROCUREMENT, FABRICATION AND OTHER WORK RELATED TO DEFERRED/DESIGN-BUILD SUBMITTAL SHALL NOT BE PERFORMED UNTIL THE DEFERRED/DESIGN-BUILD SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING DEFERRED/DESIGN-BUILD SUBMITTALS:
- FIRE SPRINKLER SYSTEM MODIFICATIONS
 - FIRE ALARM MODIFICATIONS
 - LOW VOLTAGE AND DATA
 - ENGINEERING OF EXTERIOR BUILDING ENVELOPE FRAMING AND CLADDING ATTACHMENT ASSEMBLIES
 - SEISMIC BRACING OF INTERIOR FINISHES AND SUSPENDED EQUIPMENT

ARCHITECTURAL DRAWINGS

SHEET NO.	SHEET NAME
G0.0	COVER SHEET
G0.1	GENERAL INFORMATION
SHEET NO.	SHEET NAME
D0.1	LEVEL 4 DEMOLITION PLAN
SHEET NO.	SHEET NAME

STRUCTURAL DRAWINGS

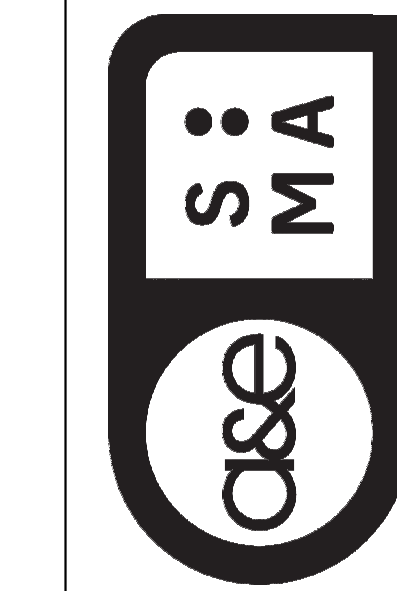
SHEET NO.	SHEET NAME
S0.0	GENERAL STRUCTURAL NOTES
S0.1	STATEMENT OF SPECIAL INSPECTIONS
S2.4	FOURTH LEVEL FRAMING PLAN
S4.0	ELEVATIONS
S4.1	ELEVATIONS
S9.0	ANCHORAGE AND FRAMING DETAILS
A2.4	LEVEL 4 FLOOR PLAN
A4.0	EXTERIOR ELEVATIONS
A4.1	EXTERIOR ELEVATIONS
A9.2	DETAILS
A9.3	DETAILS

PROJECT TEAM

OWNER	STRUCTURAL ENGINEER
STATE OF MONTANA - MONTANA STATE UNIVERSITY UNIVERSITY FACILITIES MANAGEMENT MANAGED BY: PLANNING DESIGN & CONSTRUCTION PLEV BUILDING 6TH & GRANT PO BOX 17780 BOZEMAN, MT 59717-2780	MORRISON-MAIERLE 2880 TECHNOLOGY BLVD W. BOZEMAN, MT 59714 406.587.0721
ARCHITECT	
A&E + SMA DESIGN 515 W. ASPEN ST. SUITE 200A BOZEMAN, MT 59715 406.453.7310	
CONTRACTOR	
XXXXX XXXXX	

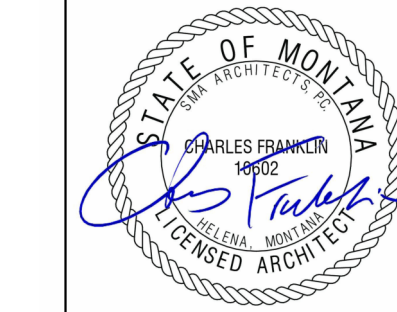
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MSU PARKING GARAGE
SAFETY UPGRADES PHASE 01



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REV.	DESCRIPTION	D

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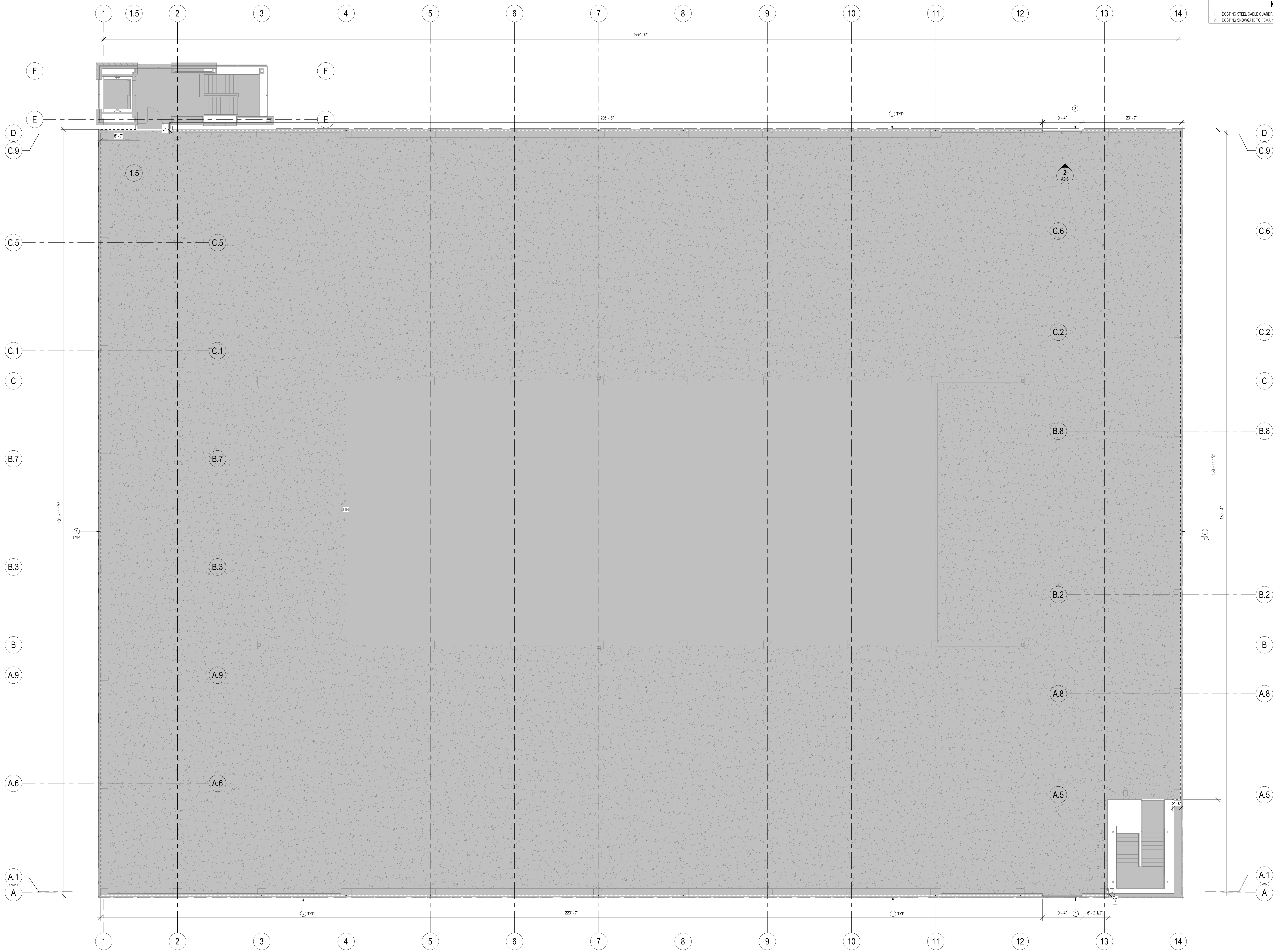
GENERAL INFORMATION

SHEET
G0.1

DATE
09/24/2026

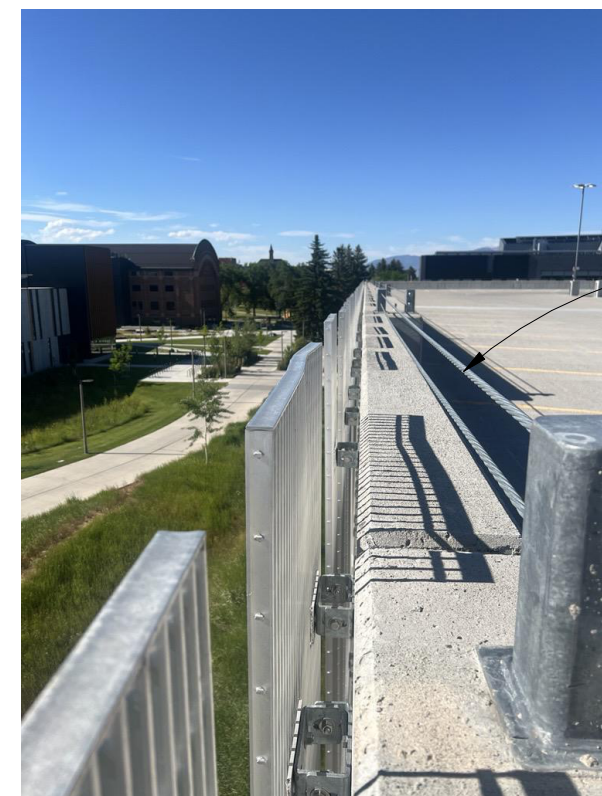
KEY PLAN

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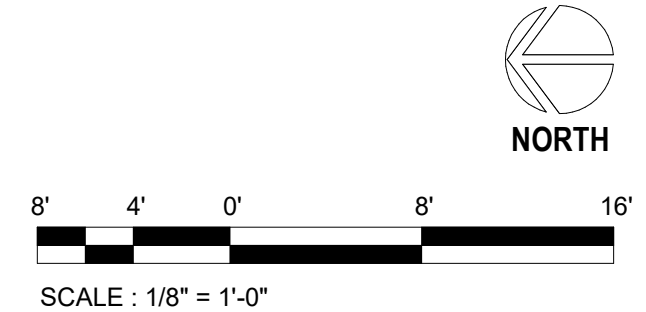
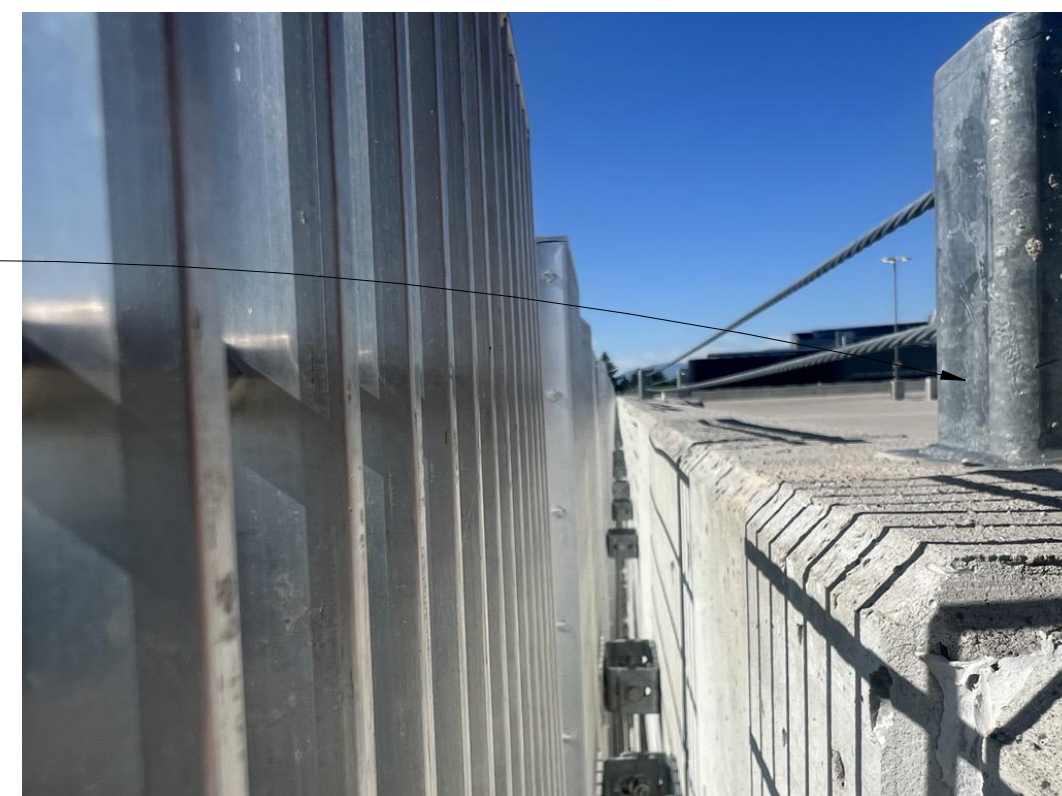


KEYNOTES - DEMO PLAN		
1	EXISTING STEEL CABLE GUARDRAIL AND POSTS TO BE REMOVED - CUT POST FROM EMBED AND PAINT REMAINING STEEL	
2	EXISTING SNOWGATE TO REMAIN	

1 LEVEL 4 - DEMO
1/8" = 1'-0"



(E) STEEL CABLE RAIL WITH 4x4
HHS POSTS TO BE REMOVED. CUT
POSTS FROM EMBED PLATES AND
GRIND SMOOTH EMBED PLATES
TO REMAIN IN PLACE. COORDINATE
NEW POST LOCATIONS TO AVOID
(E) PLATES.

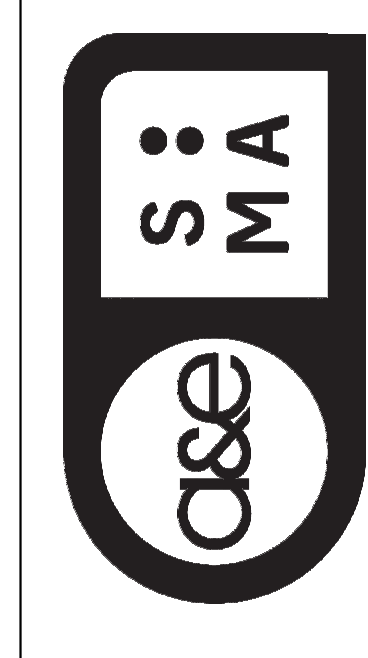


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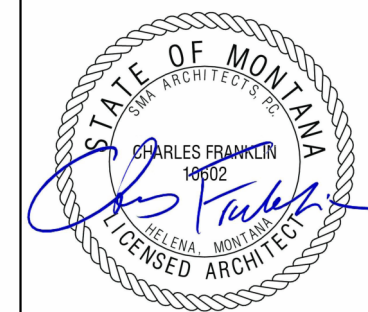
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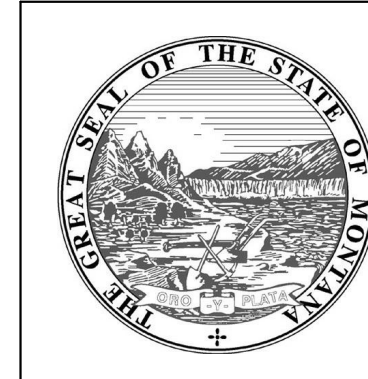
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Consultant #:

LEVEL 4
DEMOLITION
PLAN

SHEET
D2.1

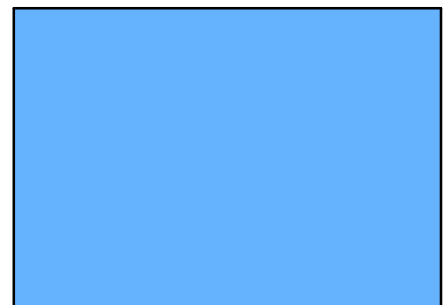
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1000 W. GATEWAY AVENUE
BOZEMAN, MT 59717-1400
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FAX: 406/954-5405

1 SITE DIAGRAM

1 1/2" = 1'-0"



POTENTIAL SITE CONSTRUCTION STAGING AREA - COORDINATE ALL REQUIREMENTS AND FINAL LOCATION WITH MSU FACILITIES

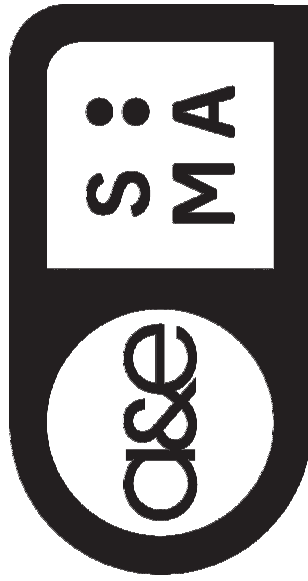


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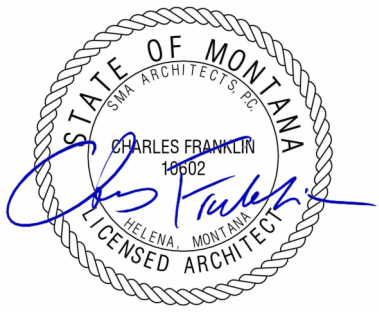
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SAFETY UPGRADES PHASE 01



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Consultant #:

SITE DIAGRAM

SHEET
A1.1

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09/24/2026



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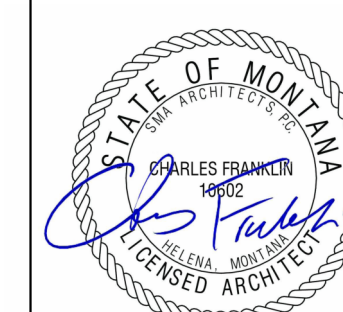




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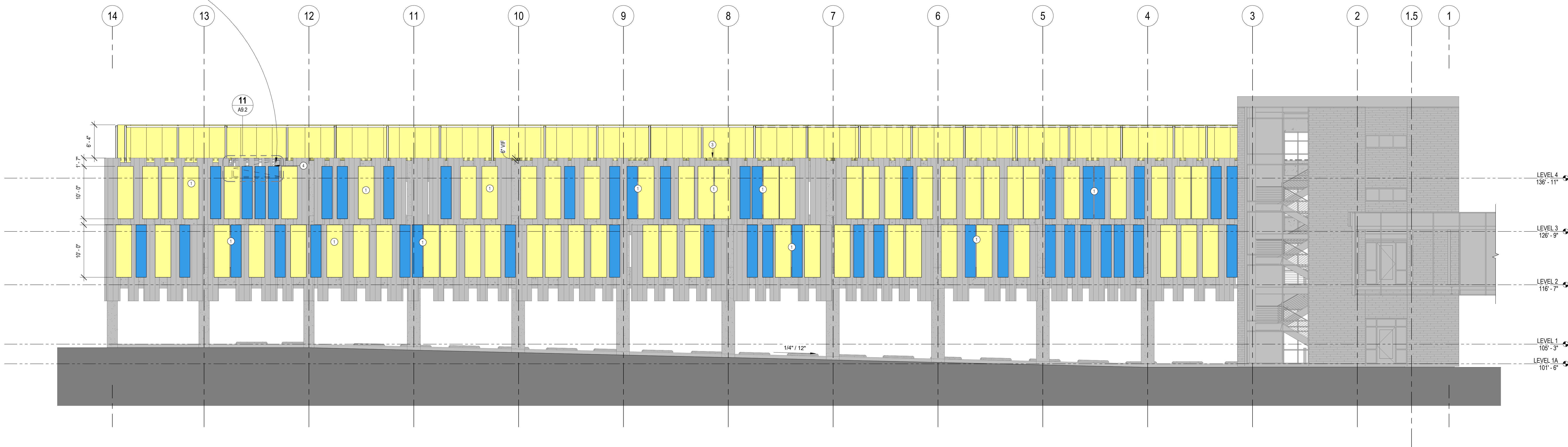
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LEVEL 4 FLOOR PLAN

SHEET
A2.4

DATE
09/24/2026





PANEL LEGEND	
	2' x 10' PANEL
	3' x 10' PANEL
	EXISTING PANEL

KEYNOTES - EXTERIOR ELEVATIONS	
1	POST INSTALLED ANCHOR REQUIRED AT BOTH PANELS - 2" MAX. BETWEEN PANELS. CONTRACTOR TO FIELD VERIFY DEPTH OF CLIP REQUIRED.
2	(E) SNOW GATE BEYOND
3	EXISTING GUARD RAIL TO BE DEMO'D - SEE DEMO PLANS
4	EXISTING SNOW GATE TO REMAIN AND WELD SHUT

KEY PLAN

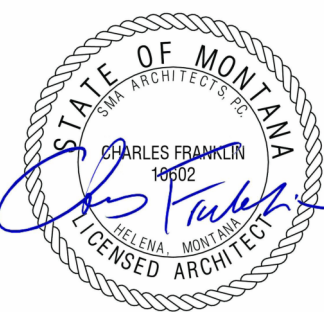
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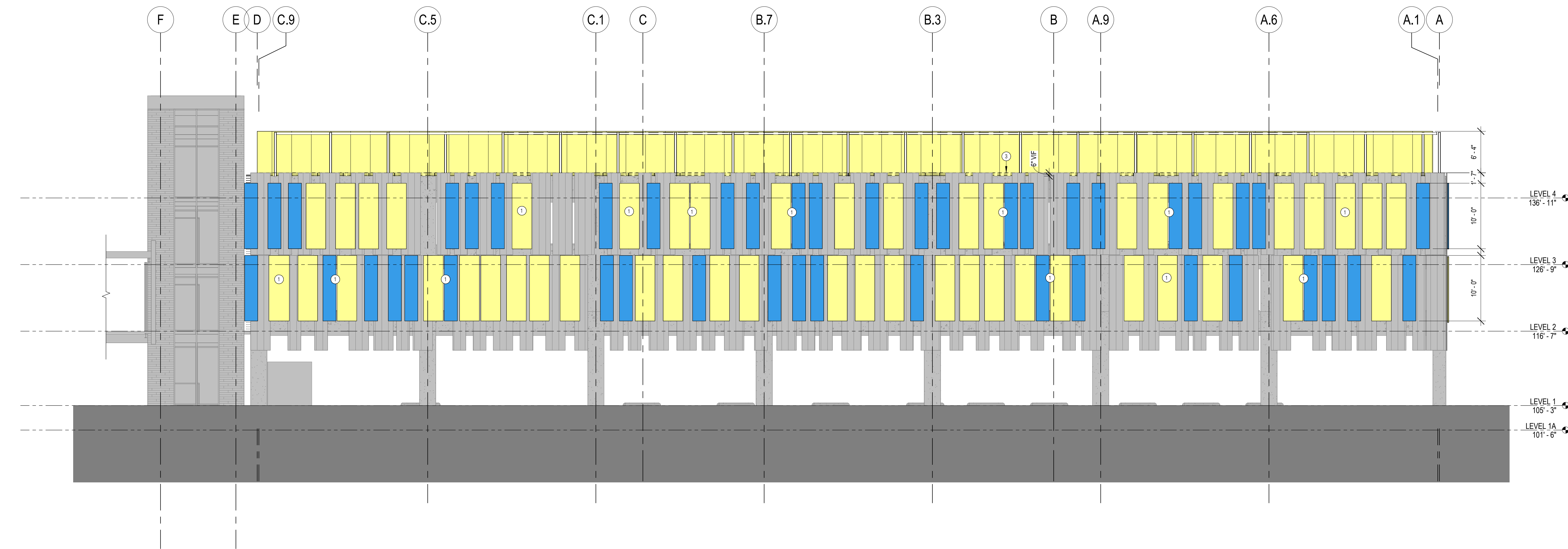
EXTERIOR
ELEVATIONS

SHEET
A4.0

DATE
09/24/2026



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MONTANA STATE UNIVERSITY
1500 W. GARDEN AVENUE
BOZEMAN, MT 59717-3100
PHONE: 406/954-5411
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1 NORTH ELEVATION
1/8" = 1'-0"



PANELS ON THE EXTERIOR OF THE GATE TO BE CUT TO ACCOMMODATE OPENING - VERIFY WITH MSU FACILITIES

EXISTING GATE



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

KEY PLAN

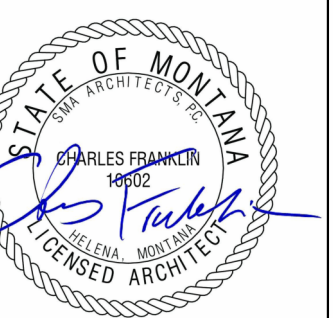
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**MSU PARKING GARAGE
SAFETY UPGRADES PHASE 01**



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REV. DESCRIPTION DATE



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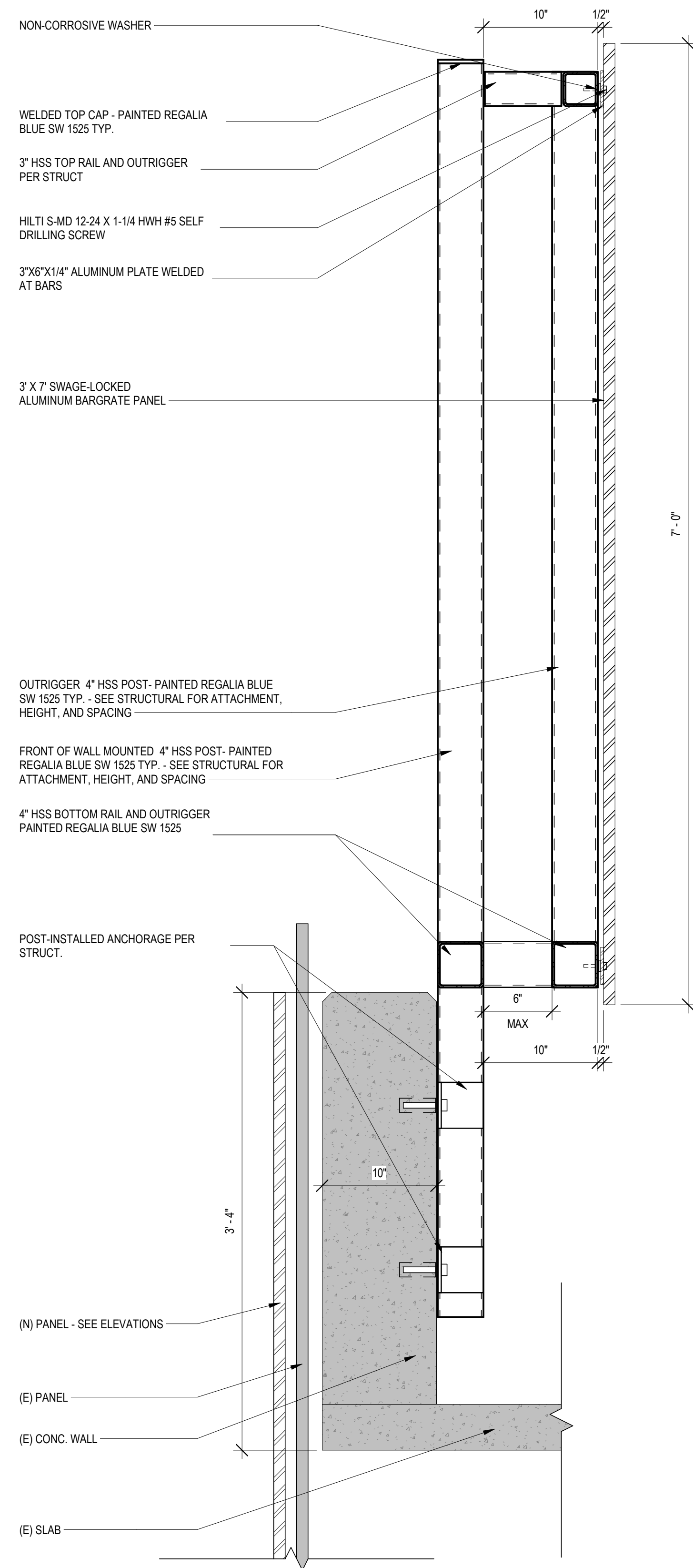
EXTERIOR
ELEVATIONS

SHEET
A4.1

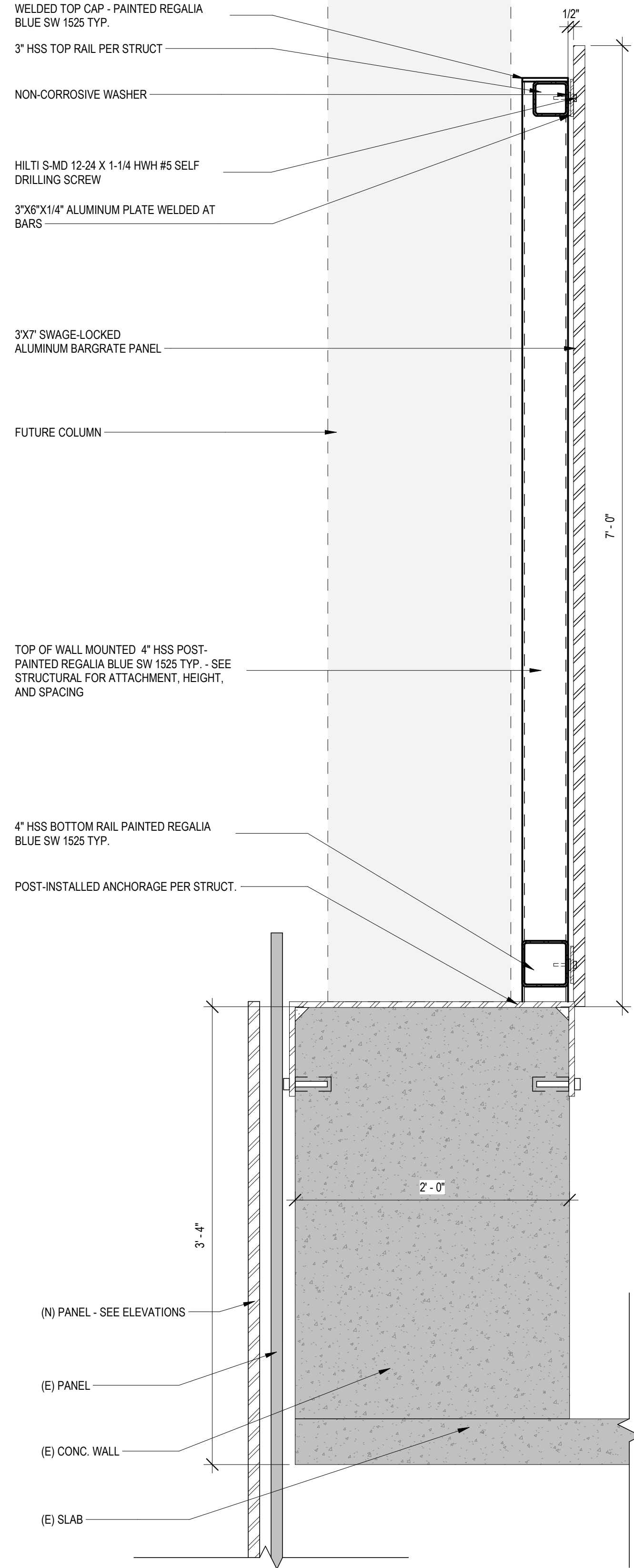
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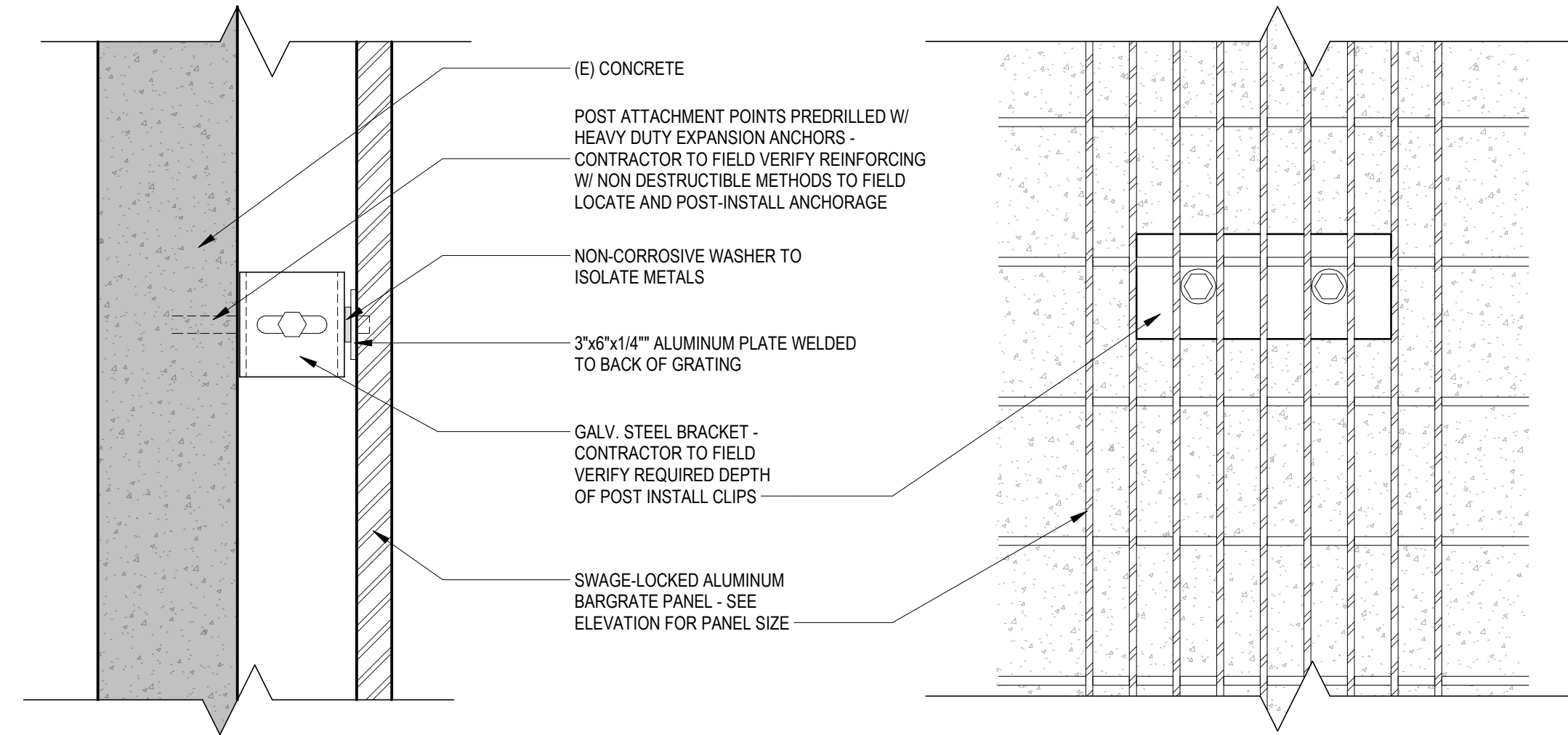
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BOZEMAN, MT 59717-1000
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1 FENCE ATTACHMENT SECTION DETAIL @ 10" WALL
1 1/2" = 1'-0"

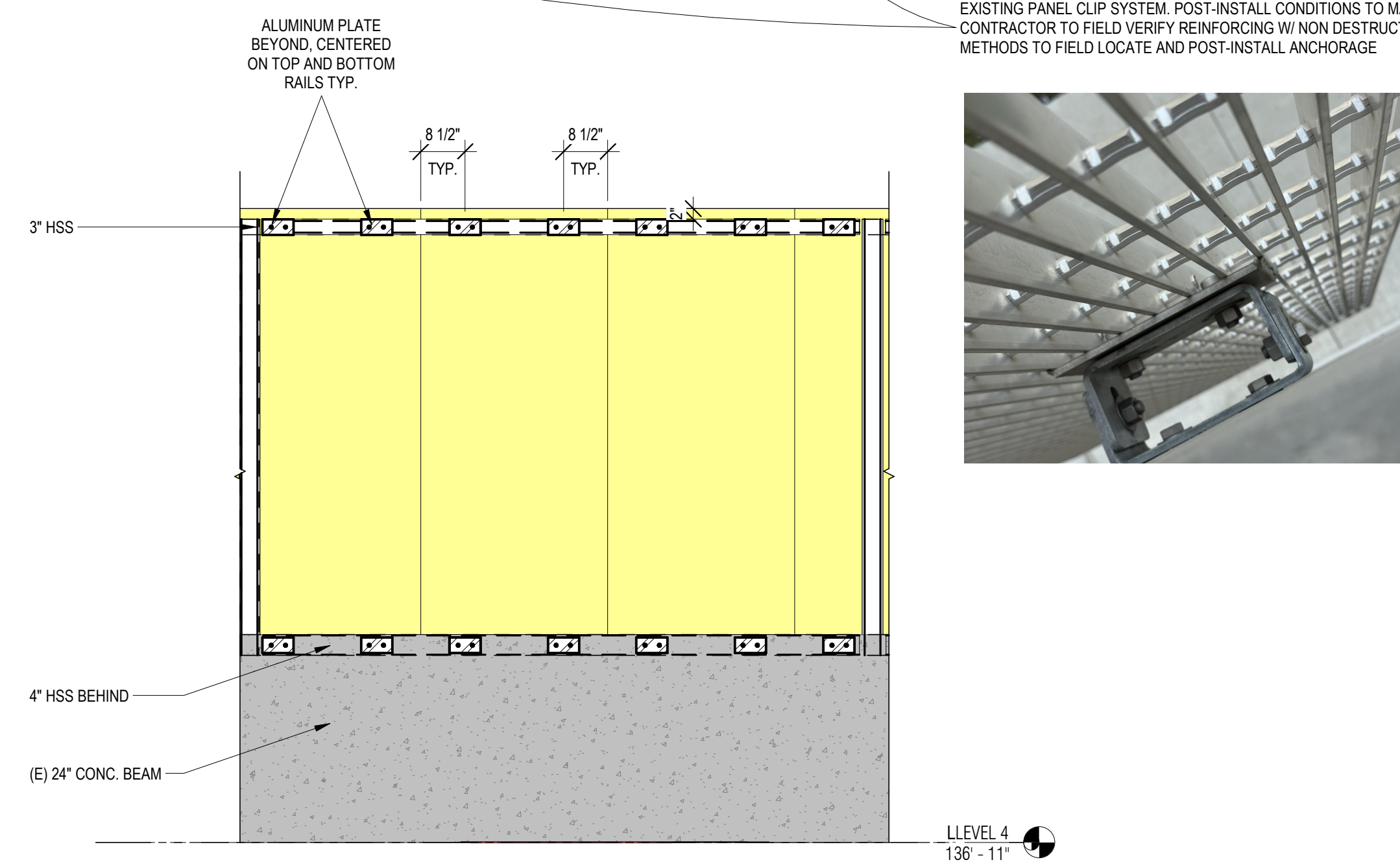


2 FENCE ATTACHMENT SECTION DETAIL @ 24" BEAM
1 1/2" = 1'-0"

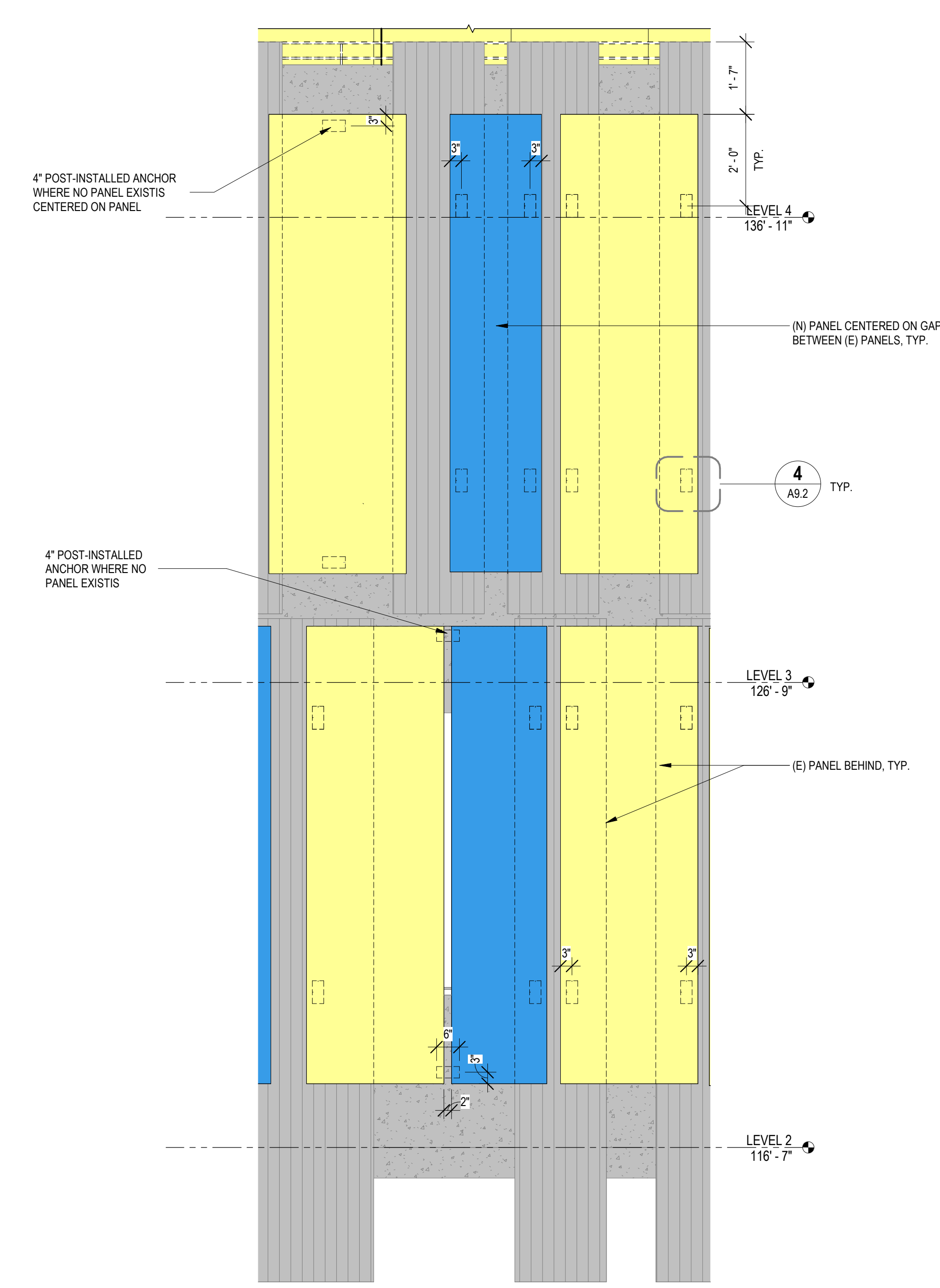


3 POST INSTALL ATTACHMENT DETAIL
3' = 1'-0"

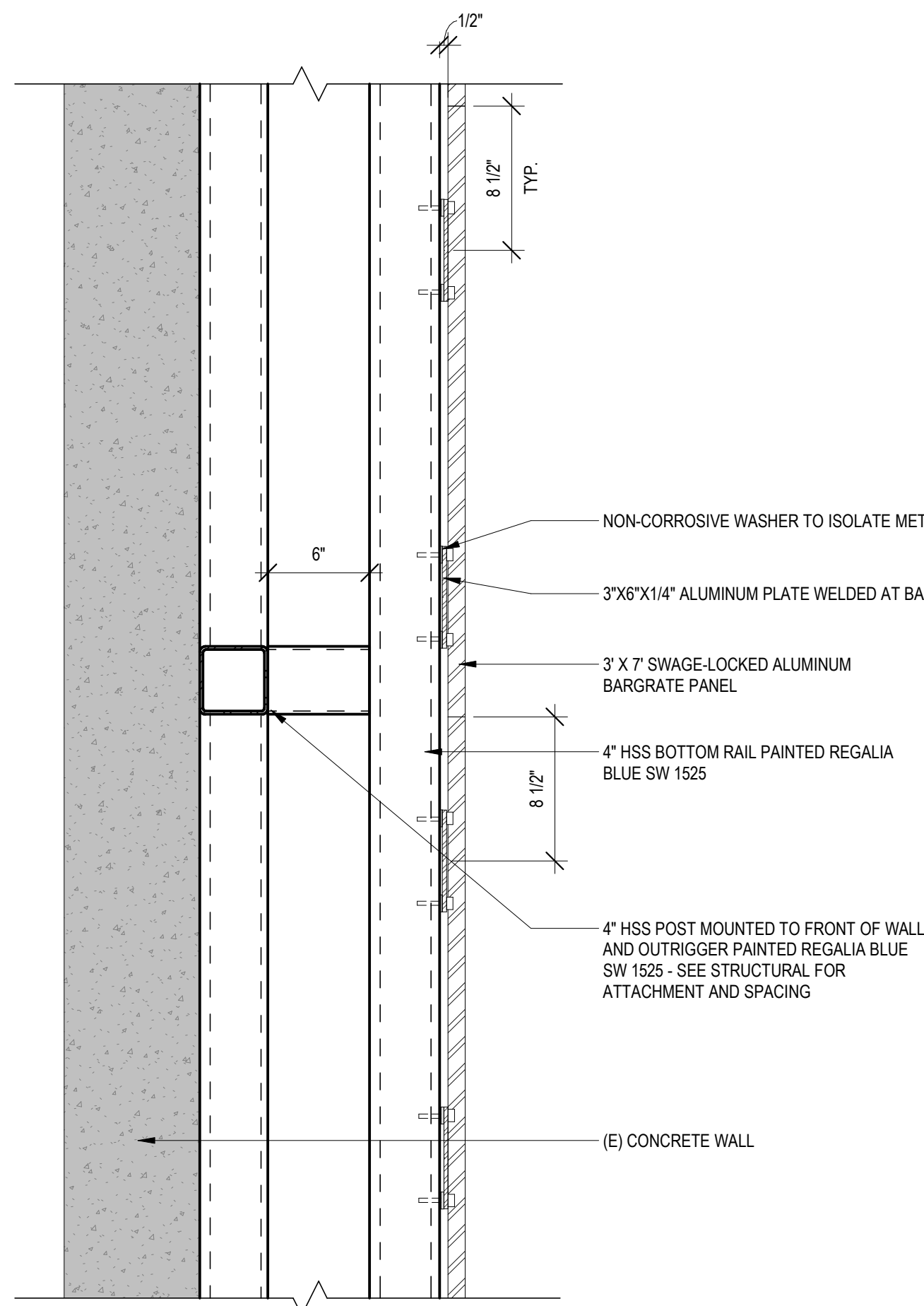
4 ENLARGED ELEVATION DETAIL
3' = 1'-0"



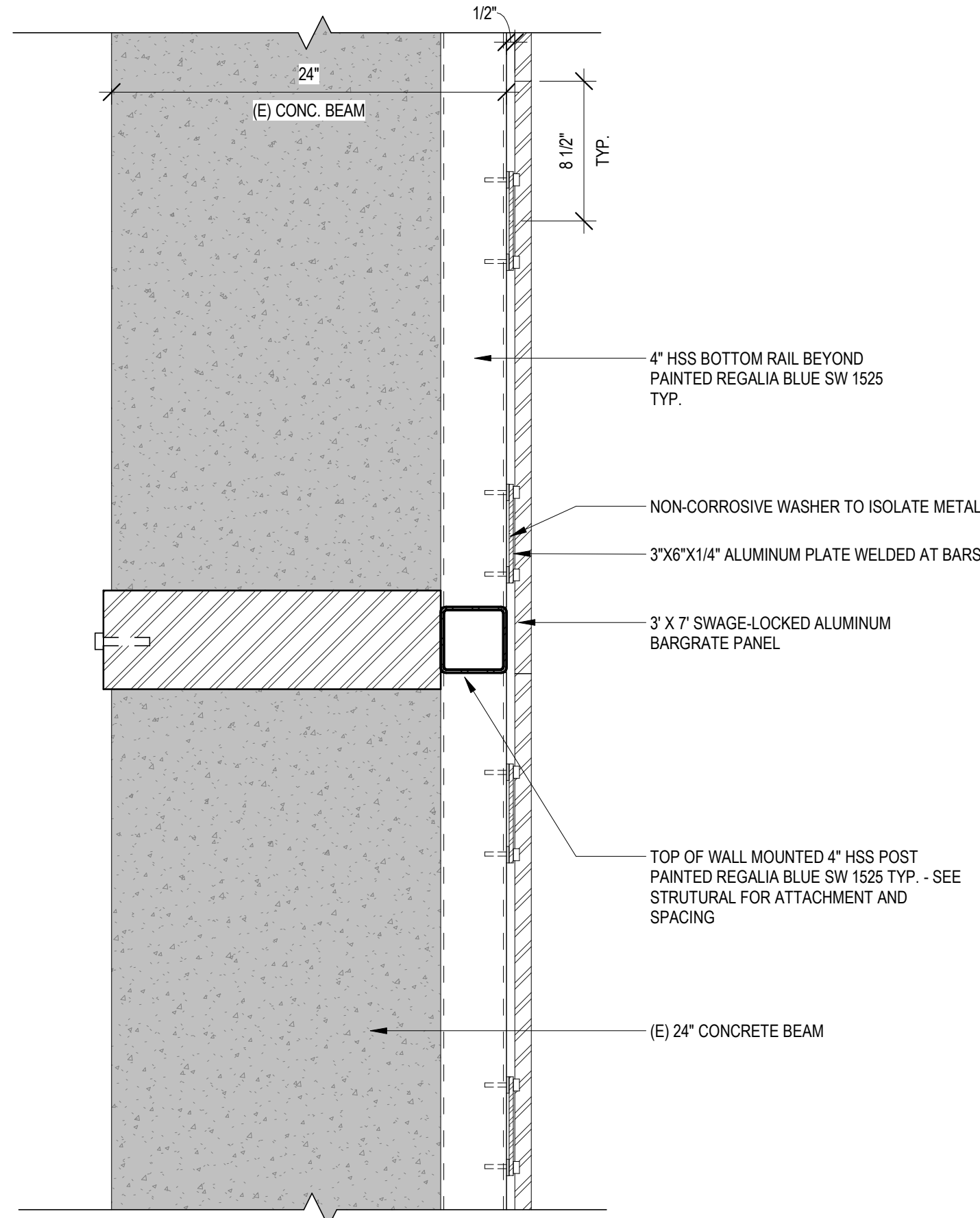
5 ENLARGED ELEVATION @ FENCE DETAIL
1/2" = 1'-0"



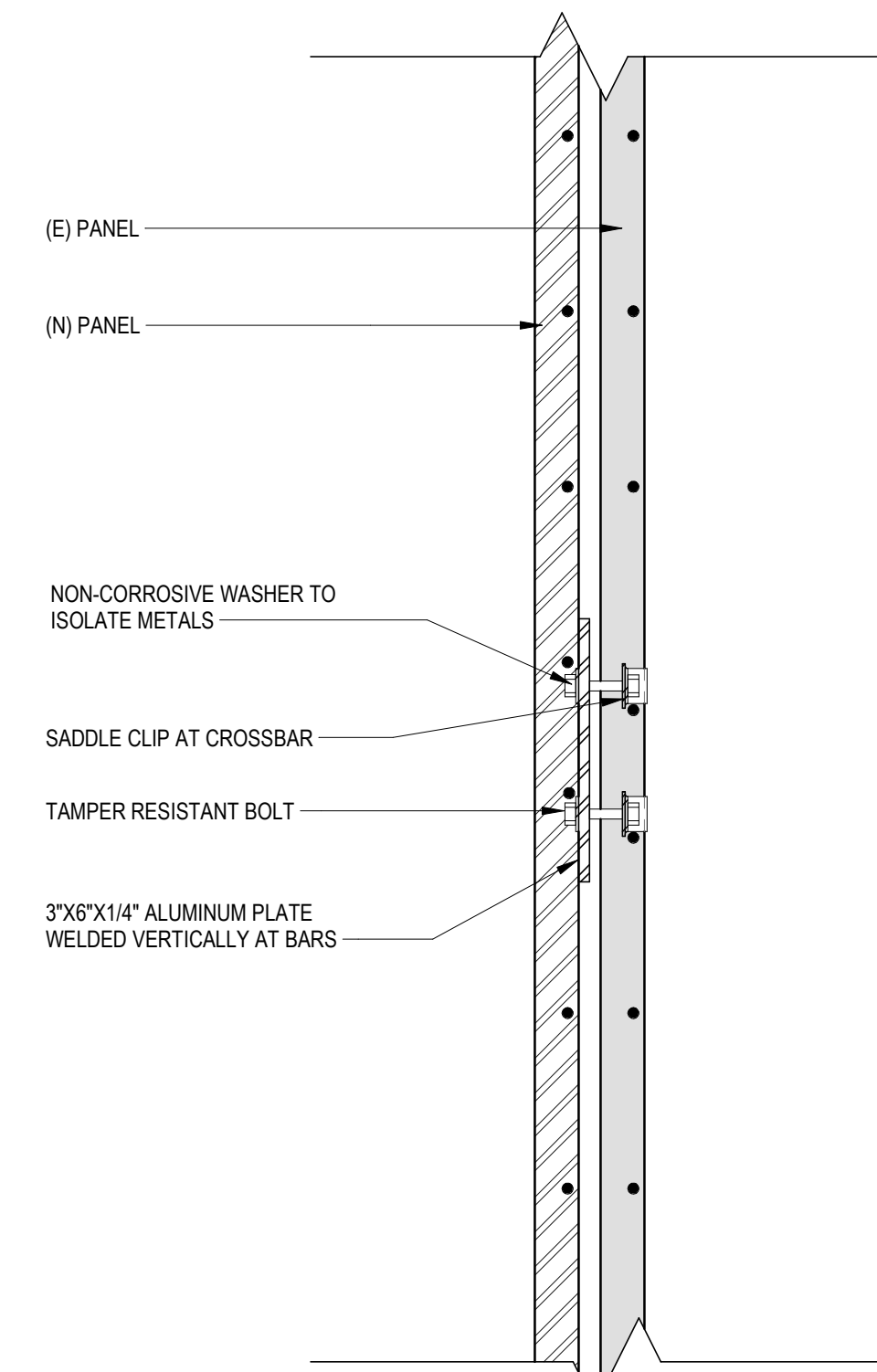
6 ENLARGED PANEL TO PANEL ELEVATION DETAIL
1/2" = 1'-0"



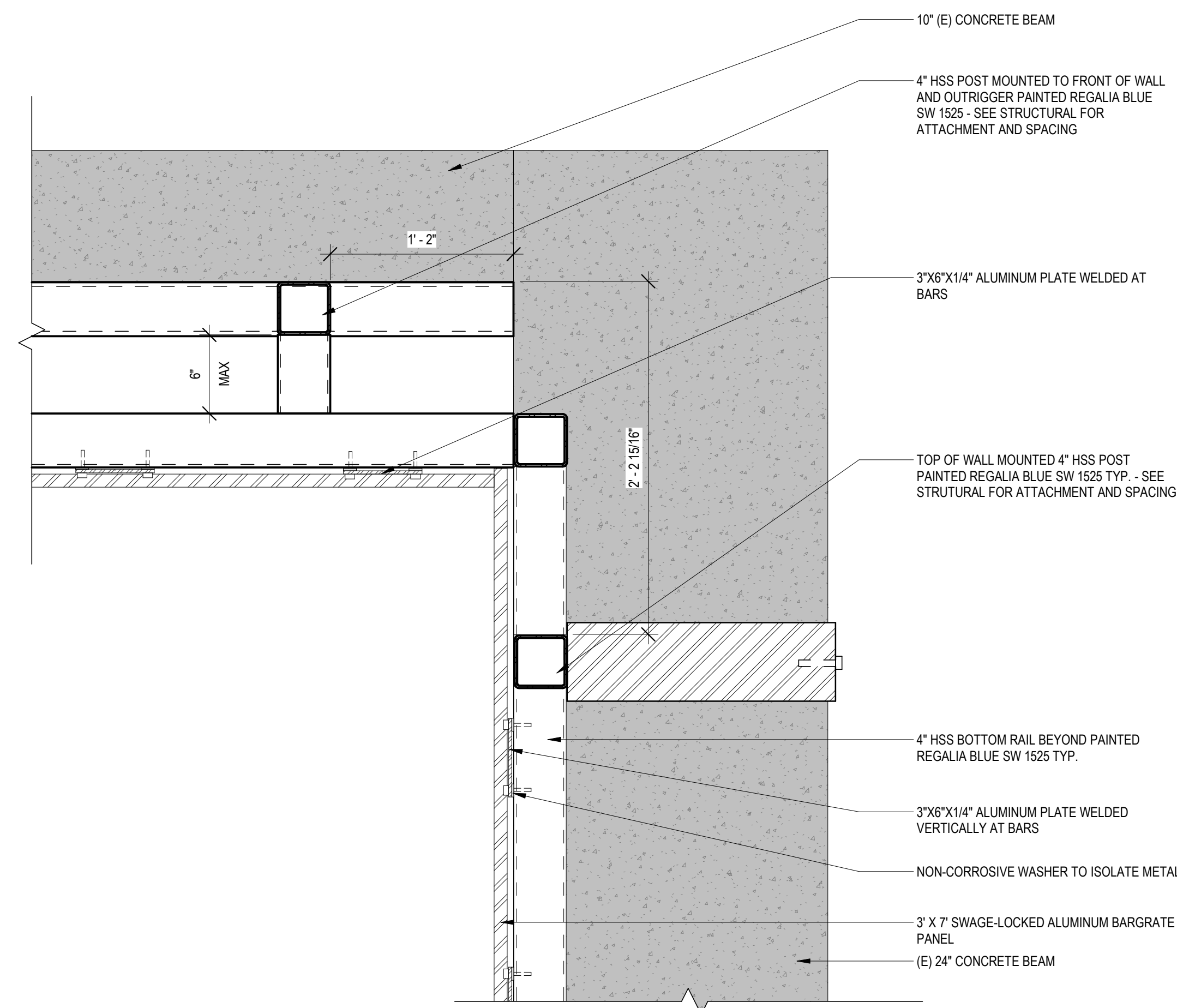
7 FENCE ATTACHMENT PLAN VIEW @ 8" DETAIL
1 1/2" = 1'-0"



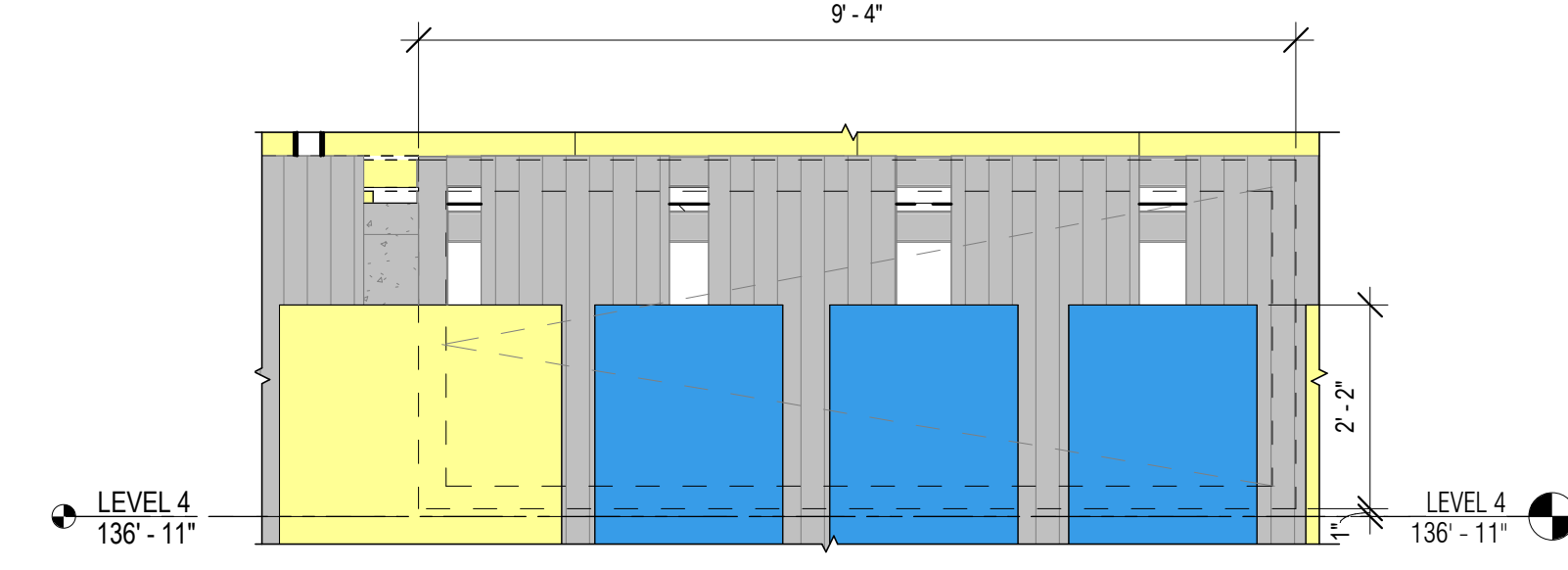
8 FENCE ATTACHMENT PLAN VIEW @ 24" BEAM
1 1/2" = 1'-0"



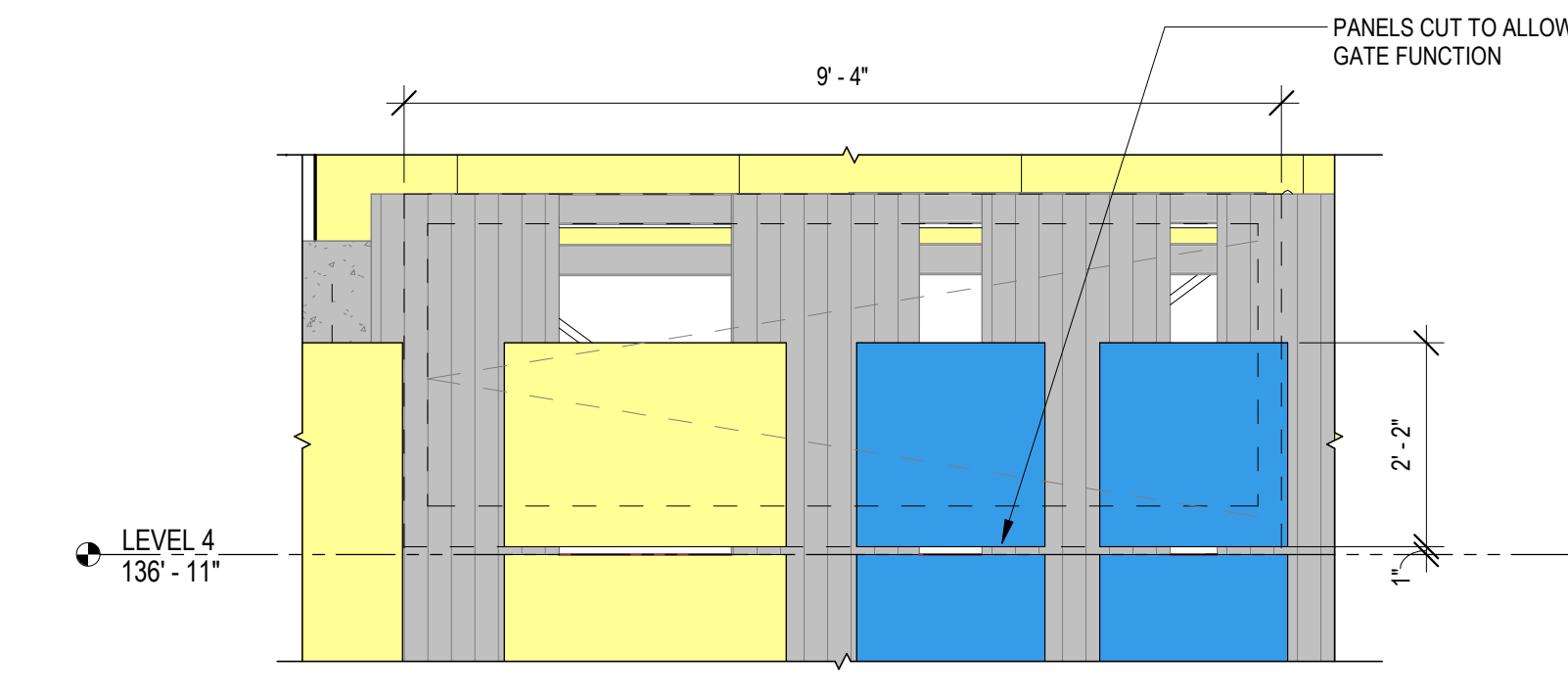
9 PANEL TO PANEL ATTACHMENT SECTION DETAIL
3' = 1'-0"



10 FENCE ATTACHMENT PLAN VIEW @ 24" BEAM
1 1/2" = 1'-0"



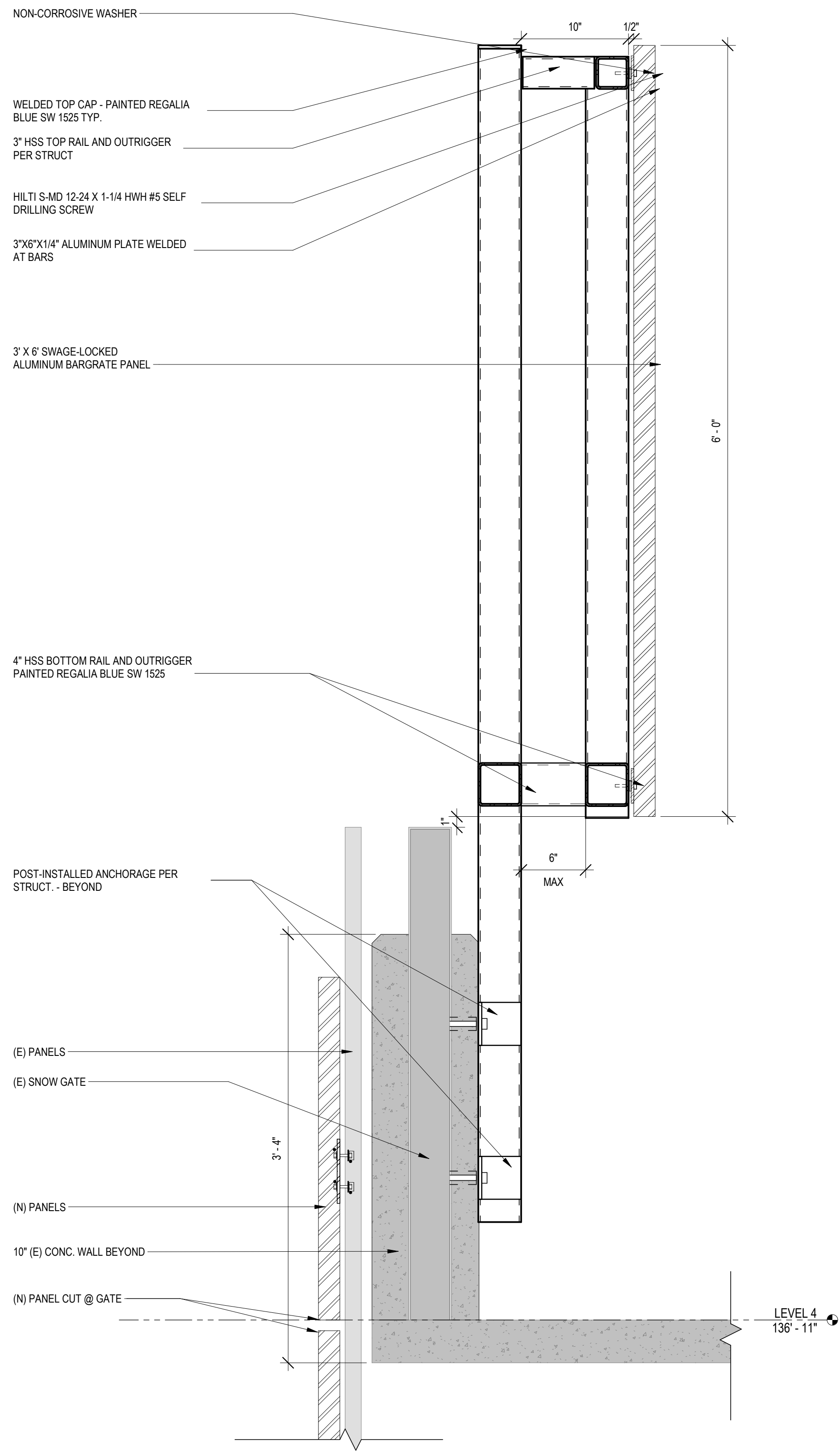
11 (E) SNOW GATE ENLARGED ELEVATION - EAST
1/2" = 1'-0"



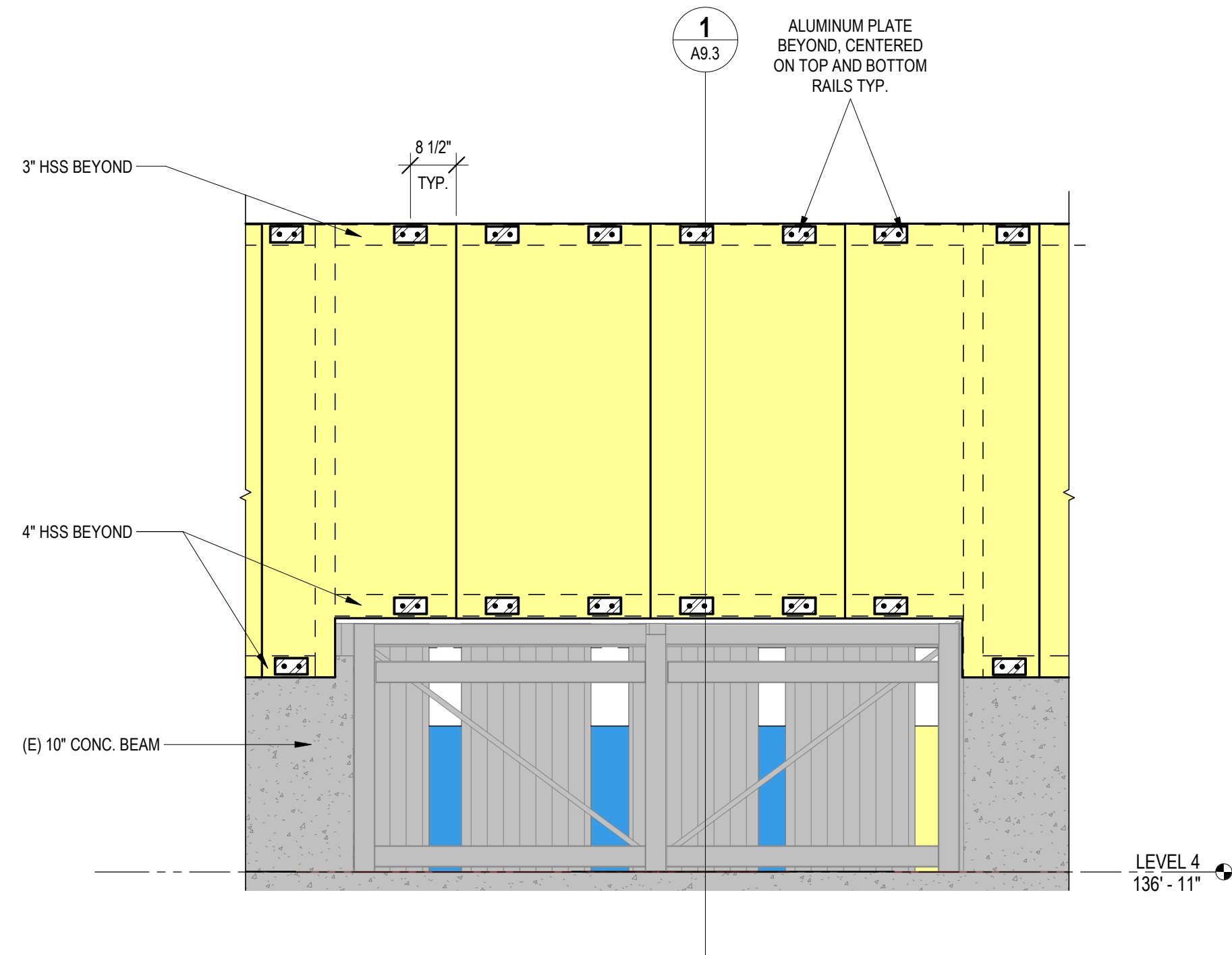
12 (E) SNOW GATE ENLARGED ELEVATION - WEST
1/2" = 1'-0"

KEY PLAN

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1 WEST GATE/FENCE CONNECTION DETAIL
1 1/2" = 1'-0"



2 ENLARGED ELEVATION @ FENCE/ WEST GATE DETAIL
1/2" = 1'-0"

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**MSU PARKING GARAGE
SAFETY UPGRADES PHASE 01**

DRAWN BY:	EK
REVIEWED BY:	JS
REV.	DESCRIPTION DATE

PPA#26-1462

Consultant #:

DETAILS

SHEET
A9.3

DATE
09/24/2026

GENERAL STRUCTURAL NOTES:

1. THESE DRAWINGS HAVE BEEN PREPARED SOLELY FOR USE IN THE SAFETY ENHANCEMENTS OF THE MSU NAIC PARKING GARAGE. POSSESSION OF THESE DRAWINGS DOES NOT GRANT A LICENSE TO CONSTRUCT THIS PROJECT IN OTHER LOCATIONS.
2. STRUCTURAL DRAWINGS ARE A PORTION OF THE CONTRACT DOCUMENTS AND ARE INTENDED TO BE USED WITH ARCHITECTURAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES OR IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN OR NOTED.
3. THESE GENERAL NOTES SUPPLEMENT THE PROJECT SPECIFICATIONS. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
4. THE CONTRACTOR SHALL FURNISH THE PRODUCTS SPECIFIED ON THE DRAWINGS. SUBSTITUTIONS WILL BE CONSIDERED ONLY IF THE CONTRACTOR PROVIDES DOCUMENTATION TO PROVE THE ALTERNATIVE EQUALS OR EXCEEDS THE STRUCTURAL PERFORMANCE CHARACTERISTICS OF THE SPECIFIED PRODUCT.

CODE REQUIREMENTS:

1. ALL WORK SHALL BE IN STRICT COMPLIANCE WITH:
- A. 2021 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED BY THE STATE OF MONTANA (INTERNATIONAL BUILDING CODE, 2021 EDITION, EFFECTIVE JUNE 11, 2022)
- B. 2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC) AS AMENDED BY THE STATE OF MONTANA (INTERNATIONAL EXISTING BUILDING CODE, 2021 EDITION, EFFECTIVE JUNE 11, 2022)
- C. ALL OTHER STATE AND LOCAL BUILDING REQUIREMENTS THAT APPLY.

TEMPORARY CONDITIONS:

1. CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY SUPPORT PRIOR TO COMPLETION OF VERTICAL AND LATERAL LOAD SYSTEMS. MORRISON-MARBLE HAS NOT BEEN RETAINED TO PROVIDE ANY SERVICES RELATED TO JOB SITE SAFETY PRECAUTIONS, OR TO REVIEW THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES FOR THE CONTRACTOR TO PERFORM WORK. UNLESS WE ARE SPECIFICALLY RETAINED AND COMPENSATED TO DO OTHERWISE, OUR WORK IS LIMITED TO THE FINAL DESIGN OF THE WORK DESCRIBED ON OUR DRAWINGS FOR THIS PROJECT.

2. CONTRACTORS CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD.

EXISTING CONDITIONS:

1. EXISTING BUILDINGSITE DIMENSIONS AND ASSUMED CONDITIONS ARE TO BE VERIFIED IN THE FIELD AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ALL DISCREPANCIES WHICH REQUIRE A SIGNIFICANT CHANGE IN THE DESIGN AND/OR CONSTRUCTION FROM THAT SHOWN ON THE DRAWINGS.

ASSUMED FUTURE CONSTRUCTION:

1. PHASE 2

DESIGN CRITERIA

1. DESIGN IS BASED ON THE FOLLOWING LOADING FOR THE BASIS OF STRENGTH, PERFORMANCE, AND SERVICEABILITY OF THE STRUCTURE:

DESIGN CRITERIA

DEAD LOAD CRITERIA		
DEAD LOADS:	UNIFORM LOAD	
ROOF DEAD LOAD:	SELF WEIGHT OF CONCRETE	
FLOOR DEAD LOAD:	SELF WEIGHT OF CONCRETE	
LIVE LOAD CRITERIA (IBC 1603.1.1)		
LIVE LOADS:	UNIFORM LOAD	CONCENTRATED LOAD
FOURTH LEVEL	40 PSF (NON-REDUCIBLE)	3000 LB
GUARDRAILS	50 PLF	250 LB
SNOW LOAD CRITERIA (IBC 1603.1.3)		
DESIGN ROOF SNOW LOAD	36 PSF (STATE OF MT MINIMUM)	
GROUND SNOW LOAD	Pg = 46 PSF	
FLAT ROOF SNOW LOAD	Pt = 40 PSF	
SNOW EXPOSURE FACTOR	Ce = 1.0	
SNOW LOAD IMPORTANCE FACTOR	Is = 1.0	
THERMAL FACTOR	Ct = 1.2	
WIND LOAD CRITERIA (IBC 1603.1.4)		
BASIC DESIGN WIND SPEED	V = 115 MPH	
RISK CATEGORY	II	
WIND EXPOSURE	C	
COMPONENT & CLADDING PRESSURE FOR DEFERRED DESIGN ELEMENTS	REF. ASCE 7-16 CH. 30, PART 1	
SEISMIC LOAD CRITERIA (IBC 1603.1.5)		
RISK CATEGORY	II	
SEISMIC IMPORTANCE FACTOR	Ie = 1.0	
MAPPED SPECTRAL RESPONSE	Ss = 0.72	S1 = 0.21
SITE CLASS	D	
DESIGN SPECTRAL RESPONSE	Sds = 0.59	Sd1 = 0.28
SEISMIC DESIGN CATEGORY	D	
BASIC SEISMIC FORCE RESISTING SYSTEM (SFRS)	X DIRECTION (E/W)	Z DIRECTION (N/S)
RESPONSE MODIFICATION FACTOR	STEEL CENTILFERED COLUMNS 1.25	STEEL CENTILFERED COLUMNS 1.25
ANALYSIS PROCEDURE USED	EQUIVALENT LATERAL FORCE	EQUIVALENT LATERAL FORCE

MISCELLANEOUS:

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS FOR BIDDING AND CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING AND CONSTRUCTION.
2. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE USED. SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT.
3. EXISTING BUILDINGSITE DIMENSIONS AND ASSUMED CONDITIONS ARE TO BE VERIFIED IN THE FIELD AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL DISCREPANCIES WHICH REQUIRE A SIGNIFICANT CHANGE IN THE DESIGN AND/OR CONSTRUCTION FROM THAT SHOWN ON THE DRAWINGS.
4. ENGINEER SHALL REVIEW SHOP DRAWINGS ONLY FOR THE CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND FOR COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. DIMENSIONS AND QUANTITIES NOTED ON THE SHOP DRAWINGS ARE NOT GUARANTEED BY THE ENGINEER AND THEREFORE MUST BE VERIFIED BY THE GENERAL CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR INFORMATION THAT PERTAINS TO THE FABRICATION PROCESSES OR TO TECHNIQUES OF CONSTRUCTION, AND FOR COORDINATION OF THE WORK OF ALL TRADES. SHOP DRAWINGS MUST BE REVIEWED, STAMPED, AND SIGNED BUT BY THE CONTRACTOR PROP TO THE REVIEW BY THE ENGINEER.

STRUCTURAL OBSERVATIONS:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE ENGINEER OF RECORD A MINIMUM OF 24 HOURS IN ADVANCE OF REQUIRED OBSERVATIONS. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE OBSERVER. APPROVAL BY THE MUNICIPAL INSPECTOR DOES NOT PRECLUDE OBSERVATIONS BY THE ENGINEER OF RECORD AND APPROVAL BY THE ENGINEER OF RECORD DOES NOT PRECLUDE THE INSPECTION PROCESS BY THE MUNICIPAL INSPECTOR AND ANY OTHER CODE REQUIREMENTS FOR INSPECTION.
2. UPON COMPLETION OF WORK THE STRUCTURAL OBSERVER SHALL SUBMIT A REPORT TO THE OWNER AND BUILDING OFFICIAL ATTESTING TO THE VISUAL OBSERVATION MADE. THE REPORT SHALL IDENTIFY ANY REPORTED DEFICIENCIES WHICH HAVE NOT BEEN RESOLVED.
3. STRUCTURAL OBSERVATIONS SHALL BE PERFORMED TO DOCUMENT GENERAL CONFORMANCE OF THE STRUCTURAL DRAWINGS AND SPECIFICATIONS AT THE FOLLOWING STAGES:

STRUCTURAL OBSERVATIONS

ITEM	OBSERVED BY		COMMENTS
	AOR	SEOR	
PRIOR TO INSTALLATION OF POST INSTALLED ANCHORAGE		X	
SUBSTANTIAL COMPLETION OF STEEL CONSTRUCTION		X	
AS REQUIRED TO ADDRESS STRUCTURAL ISSUES		X	

SUBMITTALS:

1. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION OF ALL STRUCTURAL PRODUCTS, INCLUDING THE FOLLOWING:

SUBMITTALS

ITEM	SUBMITTAL	DEFERRED SUBMITTAL
CONCRETE ANCHORAGES	X	
STRUCTURAL STEEL	X	
STEEL WELDING PROCEDURES	X	
STRUCTURAL STEEL FASTENERS		X
BAR GRATING		X

2. SHOP DRAWINGS SUBMITTALS SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION FOR ALL STRUCTURAL PRODUCTS DELIVERED TO THE PROJECT. IF THE SHOP DRAWINGS DEViate FROM OR ADD TO THE DESIGN OF THE STRUCTURAL DRAWINGS, THEY SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. ANY CHANGES TO THE STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER OF RECORD.
3. DEFERRED SUBMITTAL DESIGN DRAWINGS, SHOP DRAWINGS, AND CALCULATIONS FOR THE DESIGN AND FABRICATION OF ITEMS THAT ARE DESIGNED BY OTHERS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. THE DEFERRED SUBMITTAL SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO FABRICATION AND ARE SUBJECT TO REVIEW AND ACCEPTANCE OF THE STRUCTURAL ENGINEER FOR LOADS IMPOSED ON THE SUPPORTING STRUCTURE. CALCULATIONS SHALL BE INCLUDED FOR ALL CONNECTIONS TO THE STRUCTURE, CONSIDERING LOCALIZED EFFECTS ON STRUCTURAL ELEMENTS INDUCED BY THE CONNECTION LOADS. DESIGN SHALL BE BASED ON THE REQUIREMENTS OF THE CODES AND DESIGN CRITERIA NOTED IN THESE GENERAL STRUCTURAL NOTES.
4. FIELD ENGINEERED DETAILS DEVELOPED BY THE CONTRACTOR THAT DEViate FROM OR ADD TO THE STRUCTURAL DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED AND SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO CONSTRUCTION.
5. THE USE OF REPRODUCTIONS OR PHOTOCOPIES OF THE CONTRACT DOCUMENTS SHALL NOT BE PERMITTED. WHEN CAD OR REVIT FILES ARE PROVIDED TO THE CONTRACTOR OR SUBCONTRACTORS, IT IS THE RESPONSIBILITY OF THE DETAILERS TO REMOVE ALL INFORMATION NOT DIRECTLY RELEVANT TO THE CREATION OF THE PLACING DRAWINGS AS WELL AS ALL REFERENCES TO THE OUTSIDE SOURCE FILES.
6. SUBMITTAL DOCUMENTS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO BEING SUBMITTED TO THE ARCHITECT FOR REVIEW.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REVIEWED SUBMITTAL TO THE BUILDING DEPARTMENT FOR DEFERRED PERMIT APPLICATION. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

CONCRETE ANCHORS

1. ALL ANCHORS SHALL BE INSTALLED IN STRICT CONFORMANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND PRODUCT EVALUATION REPORTS.
2. EMBEDMENT SPECIFIED ON DRAWINGS ARE EFFECTIVE EMBEDMENT. REFERENCE MANUFACTURER LITERATURE FOR CORRESPONDING ACTUAL EMBEDMENT DEPTHS.
3. ANCHOR RODS EXPOSED TO EARTH OR WEATHER SHALL BE PROTECTED FROM CORROSION BY HOT-DIP GALVANIZING OR USE OF STAINLESS STEEL.
4. FOR POST-INSTALLED ANCHORS, LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED.
5. CONTRACTOR SHALL FIELD LOCATE EXISTING REINFORCEMENT, POST-TENSIONING TENDONS, AND OTHER EMBEDDED ITEMS USING GPR OR OTHER APPROVED NONDESTRUCTIVE SCANNING METHODS PRIOR TO DRILLING. ANCHOR LOCATIONS SHALL BE ADJUSTED AS REQUIRED TO AVOID EXISTING REINFORCEMENT, PT TENDONS, AND EMBEDDED ITEMS. DO NOT CUT, DRILL, CORE, OR OTHERWISE DAMAGE EXISTING REINFORCEMENT OR PT TENDONS. NOTIFY ENGINEER OF RECORD OF CONFLICTS THAT PREVENT INSTALLATION OF ANCHORS AT THE LOCATIONS SHOWN PRIOR TO DRILLING.
6. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON AND SHIFT THE HOLE LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM OF (2) ANCHOR DIAMETERS OR 1 INCH, WHICHEVER IS LARGER, OF SOUND CONCRETE BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINKING GROUT. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, SEE GUIDANCE FROM THE STRUCTURAL ENGINEER OF RECORD.

METALS:

STRUCTURAL STEEL:

1. DESIGN FABRICATION AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF AISC SPECIFICATIONS AND AISC CODE OF STANDARD PRACTICE. STRUCTURAL STEEL SHALL BE:

SHAPE	MATERIAL SPECIFICATION AND GRADE
WIDE FLANGE (W-SHAPES)	ASTM A992, GRADE 50
CHANNELS (C-SHAPES)	ASTM A36, GRADE 36
ANGLES (L-SHAPES)	ASTM A36, GRADE 36
STRUCTURAL TEES (WT-SHAPES)	ASTM A992, GRADE 50
HOLLOW STRUCTURAL SECTIONS (HSS)	ASTM A500, GRADE C
STRUCTURAL PIPES	ASTM A53, GRADE B
PLATES	ASTM A36, GRADE 36
PLATES NOTED AS "GR 50"	ASTM A572, GRADE 50

2. BOLTS SHALL CONFORM TO THE ASTM AND RCSC SPECIFICATIONS FOR JOINTS USING GROUP A OR GROUP B HIGH STRENGTH BOLTS. BOLTS SHALL BE INSTALLED SNUG-TIGHT UNLESS NOTED OTHERWISE.
3. ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR RODS TO BE WELDED SHALL CONFORM TO ASTM F1554, GRADE 55. THREADED RODS SHALL CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE.
4. WELDING SHALL CONFORM TO AWS D1.1, STRUCTURAL WELDING CODE - STEEL WITH PREQUALIFIED WELDING PROCESSES EXCEPT AS MODIFIED BY AISC 360 SECTION J2. WELDING SHALL BE COMPLETED BY AWS-CERTIFIED WELDERS.
5. WELDS SHALL BE MADE USING E70XX ELECTRODES FOR SHIELDED METAL ARC WELDING (SMAW) AND E71TX WIRE FOR FLUX-CORED ARC WELDING (FCAW) PROCESSES. FOR COMPLETE JOINT PENETRATION WELDS ASSOCIATED WITH MEMBER SPLICES AND CONNECTIONS NOT PART OF THE SEISMIC FORCE RESISTING SYSTEM, WELDS SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT 40°F.
6. FIELD WELDING SYMBOLS HAVE NOT NECESSARILY BEEN INDICATED ON THE DRAWING. WHERE SHOWN, PROPER FIELD WELDING PER AWS SHALL BE USED. WHERE NO FIELD WELDING SYMBOLS ARE SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE USE OF SHOP AND FIELD WELDS.
7. ERECTION AIDS ARE TO BE DETERMINED AND PROVIDED BY THE CONTRACTOR. THE CONTRACTOR'S ERECTOR AND FABRICATOR SHALL COORDINATE THE TYPE AND QUANTITY OF ERECTION AIDS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION SEQUENCING, TEMPORARY BRACING, SAFETY OF WORKERS, AND OVERALL COMPLIANCE WITH APPLICABLE OSHA REQUIREMENTS.
8. PROVIDE WEEP HOLES AT EXTERIOR CLOSED SECTIONS WHERE MOISTURE MAY ACCUMULATE.
9. INTERIOR FRAMING THAT IS TO BE PAINTED SHALL HAVE A SHOP APPLIED PRIMER. EXTERIOR FRAMING SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 AND EXTERIOR FASTENERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. REPAIR GALVANIZING AFTER ERECTION IS COMPLETE, IN ACCORDANCE WITH ASTM A750.
10. STRUCTURAL STEEL, MEMBERS AND THEIR CONNECTIONS THAT ARE IDENTIFIED ON PLAN AS ARCHITECTUALLY EXPOSED STRUCTURAL STEEL (AESS) AND THAT ARE EXPOSED TO VIEW SHALL MEET THE STANDARDS OF AISC 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- SEISMIC FORCE RESISTING SYSTEM:
1. MEMBERS AND THEIR CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM ARE IDENTIFIED IN THE DRAWINGS AND ARE SUBJECT TO THE FOLLOWING REQUIREMENTS:
2. DISCONTINUITIES RESULTING FROM FABRICATION AND ERECTION PROCEDURES AND FROM OTHER ATTACHMENTS ARE PROHIBITED IN THE AREA OF A MEMBER OR A CONNECTION ELEMENT DESIGNATED AS A PROTECTED ZONE.
3. HIGH STRENGTH BOLTS USED AS PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) SHALL BE FULLY TENSIONED AND ALL FAYING SURFACES SHALL BE PREPARED AS REQUIRED FOR CLASS A OR BETTER SLIP-CRITICAL JOINTS.
4. WELDING OF MEMBERS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM SHALL CONFORM TO AWS D1.8, STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT. WELDING SHALL BE COMPLETED BY AWS-CERTIFIED WELDERS.
5. ALL WELDS USED IN MEMBERS AND CONNECTIONS THAT ARE PART OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LBS AT 0°F. AS DETERMINED BY AWS CLASSIFICATION OF MANUFACTURER CERTIFICATION, ALL COMPLETE JOINT PENETRATION WELDS DESIGNATED AS DEMAND CRITICAL SHALL BE MADE WITH FILLER METAL THAT HAS A MINIMUM CVN TOUGHNESS OF 20 FT-LBS AT -20°F AND 40 FT-LBS AT 70°F.

STRUCTURAL ABBREVIATIONS

ABV	ABOVE	J	JOIST
AD	ADDITIONAL	KP	KNIFE PLATE
AA	ADHESIVE ANCHOR	LAM	LAMINATED
AESS	ARCHITECTUALLY EXPOSED STRUCTURAL STEEL	LVL	LAMINATED VENEER LUMBER
ALT	ALTERNATE	LF	LINEAR FEET
ACI	AMERICAN CONCRETE INSTITUTE	LL	LIVE LOAD
ANSI	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LLH	LONG LEG HORIZONTAL
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LLV	LONG LEG VERTICAL
APA	AMERICAN PLYWOOD ASSOCIATION	MFR	MANUFACTURER
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	M	MASONRY
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	MCJ	MASONRY CONTROL JOINT
AB	ANCHOR BOLT	ML	MASONRY UNTEL
AR	ANCHOR ROD	MP	MASONRY TIE
ARCH	ARCHITECT	MATL	MATERIAL
		MAX	MEMBER
		MECH	MECHANICAL
		MBR	MEMBER
		MTL	METAL
		MD	METAL DECK
B PL	BASE PLATE	MEZZ	MEZZANINE
BSMT	BASEMENT	MM	MINIMUM
BM	BEAM	MSC	MISCELLANEOUS
BRG	BEARING	NLB	NON-LOAD BEARING
BLW	BELOW	N	NORTH
BTWN	BETWEEN	NA	NOT APPLICABLE
BLKG	BLOCKING	NTS	NOT TO SCALE
BOT	BOTTOM	NO	NUMBER
BC	BOTTOM CHORD		
BLDG	BUILDING	OC	ON CENTER
BU	BUILT UP	OPNG	OPENING
		OWJ	OPEN WEB JOIST
CANTIL	CANTILEVER	OPP	OPPOSITE
CC	CARRIAGE BOLT	PAR	PARALLEL
CIP	CAST IN PLACE	PERP	PERPENDICULAR
CTR	CENTER	PREFAB	PREFABRICATE
CTRD	CENTRAL	PC	PER CAP/CONCRETE PILE
CL	CENTRLINE	PLYWD	PLYWOOD
CLR	CLEAR	LP	POUND
CMF	COLD FORMED METAL FRAMING	PLF	POUNDS PER LINEAR FOOT
COL	COLUMN	PSF	POUNDS PER SQUARE FOOT
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CON	CONCRETE COLUMN	PAF	POWER-ACTUATED FASTENERS
CMU	CONCRETE MASONRY UNIT		
CONN	CONNECTION	PR	PRESSURE TREATED
CD	CONSTRUCTION DOCUMENTS	QA	QUALITY ASSURANCE
CJ	CONTINUOUS CONNECTION		
CONT	CONTINUOUS CONCRETE FOOTING	R	RADIUS
CONTR	CONTRACTOR	REF	REFERENCE
CJ	CONTROL JOINT	REINF	REINFORCE, REINFORCING
COORD	COORDINATE	REINFT	REINFORCING STEEL BARS
X BRACE	CROSS BRACE	REQT	REQUIREMENT
		REV	REVISION
D	DEAD LOAD	RT	RIGHT
DL	DEGREE	ROD INS	RIGID INSULATION
DEG	DEMOLITION	ROD	ROUND
DEMO	DETAIL	SCHED	SCHEDULE
DET	DIMENSION	SC	SCREW ANCHOR
DM	DIMENSION	SHTHG	SHEATHING
DIST	DISTANCE	SM	SIMILAR
DOUG FIR	DOUGLAS FIR	SCJ	SLAB CONTRACTION JOINT
DWL	DOWEL	SQ	SQUARE
DWG	DRAWING	SF	SQUARE FEET
E	EACH	S	SQUARE INCH
EACH	EACH WAY	SPEC	SPECIFICATION
ELEV	ELEVATOR	STD	STANDARD
ENGR	ENGINEER	STL	STEEL
EQU	EQUAL/EQUALY	STL_JST	STEEL DECK
EQUIP	EQUIPMENT	STIF	STIFFENER
E	EXISTING	STRUCT	STRUCTURAL
EXP	EXPANSION	SUB FLR	STRUCTURAL INSULATED PANEL
EXP-BT	EXPANSION BOLT	SUB	SUBSTITUTE
EXT	EXTERIOR		
		KIP	THOUSAND POUNDS
FACE OF	FACE OF	TS	THROUGH BOLT
FASTNER	FASTENER	T&G	TONGUE AND GROOVE
FEET	FEET	T&B	TOP AND BOTTOM
FLR	FLOOR	TOB	TOP OF BEAM
FTN	FOUNDATION	TOC	TOP OF CONCRETE
FTG	FOOTING	TOD	TOP OF DECK/SHEATHING
FS	FOOTING STEP	TOT	TOP OF FOOTING
GALV	GALVANIZED	TOM	TOP OF MASONRY
GA	GAUGE	TOS	TOP OF STEEL
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GLUE	GLUE LAMINATED	TJ	TRUSS JOIST
GLB	GLUE LAMINATED BEAM	TYP	TYPICAL
GR	GRADE		
GR BM	GRADE BEAM	UNO	UNLESS NOTED OTHERWISE
GROUT	GROUT	VIF	VERIFY IN FIELD
GYP	GYPSPUM	VERT	VERTICAL
HGR	HANGER	WLD	WELDED/WELDED
HSA	HEADED STUD ANCHOR	WWF	WELDED WIRE FABRIC
HDR	HEADER	W	WIDE
HT	HEIGHT	WF	WIDE FLANGE
H	HIGH	WL	WIND LOAD
HD	HOLD-DOWN	W	WITH
HSS	HOLLOW STRUCTURAL SECTION	WO	WITHOUT
HK	HOOK	WOOD	WOOD
HORIZ	HORIZONTAL	WG	WOOD BEAM HANGER
		WP	WORK POINT
INFO	INFORMATION		
INT	INTERIOR		
ISC	INTERNATIONAL BUILDING CODE		

100% CONSTRUCTION DOCUMENTS

MSU PARKING GARAGE
SAFETY UPGRADES PHASE 01



DRAWN BY: RLS, MPB		
REVIEWED BY: DLF		
REV.	DESCRIPTION	DATE
1		



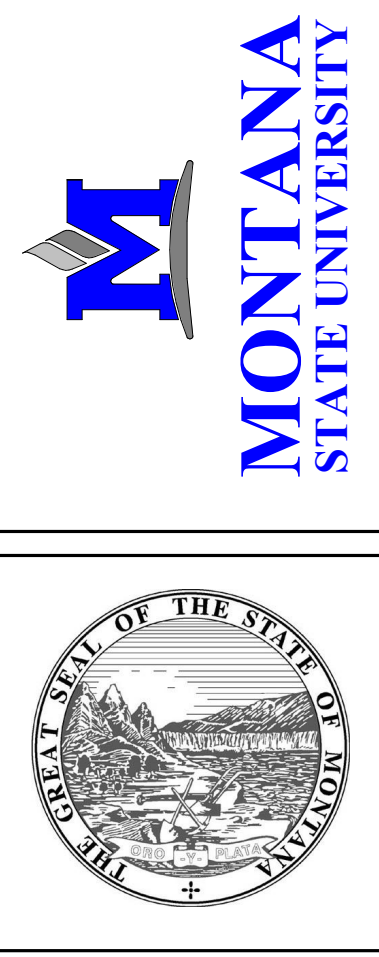
PPA#26-1462

Consultant #: _____

GENERAL
STRUCTURAL
NOTES

SHEET
S0.0

DATE
09/24/2026



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STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES:

1. SPECIAL INSPECTIONS SHALL CONFORM TO CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE (IBC), CONTRACT DOCUMENTS, AND APPROVED SUBMITTALS. THE OWNER SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS AND TESTING DESCRIBED HEREIN.
2. SPECIAL INSPECTIONS AND ASSOCIATED TESTING SHALL BE PERFORMED BY AN APPROVED AND ACCREDITED INDEPENDENT AGENCY MEETING THE REQUIREMENTS OF ASTM D593 (GENERAL), ASTM D5740 (SOILS), ASTM C1077 (CONCRETE), ASTM A880 (STEEL), AND ASTM E543 (NON-DESTRUCTIVE). THE INSPECTION AND TESTING AGENCY SHALL FURNISH TO THE ARCHITECT AND ENGINEER A COPY OF THEIR SCOPE OF ACCREDITATION. SPECIAL INSPECTORS SHALL BE APPROVED BY THE BUILDING OFFICIAL. WELDING INSPECTORS SHALL BE QUALIFIED PER AWS D1.1.
3. THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS.
4. THE SPECIAL INSPECTOR SHALL OBSERVE THE INDICATED WORK FOR COMPLIANCE WITH THE APPROVED CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION AND NOTED IN THE INSPECTION REPORTS. ISSUES REQUIRING IMMEDIATE CORRECTIVE ACTIONS OR ENGINEERING INPUT ARE TO BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY UPON DISCOVERY.
5. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, CONTRACTOR, AND OWNER. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT STATING THAT THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, IS IN CONFORMANCE WITH THE APPROVED CONTRACT DOCUMENTS, AND THAT ALL DISCREPANCIES NOTED IN THE REPORTS HAVE BEEN CORRECTED.
6. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A WIND- OR SEISMIC-RESISTING COMPONENT LISTED SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED HEREIN.
7. INSPECTION FREQUENCY:
- A. CONTINUOUS INSPECTION: THE SPECIAL INSPECTOR SHALL BE PRESENT WHEN AND WHERE THE WORK IS BEING PERFORMED AT ALL TIMES.
 - B. PERIODIC INSPECTION: THE SPECIAL INSPECTOR SHALL BE INTERMITTENTLY PRESENT WHEN AND WHERE THE WORK IS BEING PERFORMED. THE INSPECTOR SHALL OBSERVE THE WORK AT ITS COMMENCEMENT, AT PERIODIC INTERVALS THEREAFTER, AND WHEN THE WORK IS COMPLETED.
 - C. OBSERVE: THE INSPECTOR SHALL OBSERVE THESE FUNCTIONS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING OBSERVATIONS (REFERENCE AISC 360 AND AISC 341 FOR ADDITIONAL INFORMATION).
 - D. PERFORM: THESE INSPECTIONS SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE ITEM (REFERENCE AISC 360 AND AISC 341 FOR ADDITIONAL INFORMATION).
 - E. DOCUMENT: THE INSPECTOR SHALL PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS (REFERENCE AISC 360 AND AISC 341 FOR ADDITIONAL INFORMATION).
8. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. APPROVAL SHALL BE BASED UPON REVIEW OF THE FABRICATOR'S WRITTEN PROCEDURAL AND QUALITY CONTROL MANUALS AND PERIODIC AUDITING OF FABRICATION PRACTICES BY AN APPROVED SPECIAL INSPECTION AGENCY. AT COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- A. STEEL FABRICATORS AND INSTALLERS CERTIFIED THROUGH AISC COMPLY WITH THIS PROVISION. THE FABRICATOR AND/OR INSTALLER MUST STILL COMPLETE AND DOCUMENT THE QUALITY CONTROL TASKS AND NON-DESTRUCTIVE TESTING OUTLINED IN AISC 360 AND AISC 341, AS APPLICABLE.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE. VERIFY ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS. VERIFY DIMENSIONS. COMPLIANCE WITH DRILL BIT REQUIREMENTS. CLEANLINESS OF THE HOLE AND ANCHOR. PRODUCT EXPIRATION DATE (IF APPLICABLE). COMPLIANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHOR EMBEDMENT, AND TIGHTENING TORQUE (IF APPLICABLE) FOR: a) ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS		ACI 318-17 8.2.4 PRODUCT EVALUATION REPORT	CONTINUOUS	
INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE. VERIFY ANCHOR PRODUCT NAME, TYPE, AND DIMENSIONS. HOLE DIMENSIONS. COMPLIANCE WITH DRILL BIT REQUIREMENTS. CLEANLINESS OF THE HOLE AND ANCHOR. PRODUCT EXPIRATION DATE (IF APPLICABLE). COMPLIANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ANCHOR EMBEDMENT, AND TIGHTENING TORQUE (IF APPLICABLE) FOR: b) MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN a)		ACI 318-17 8.2 PRODUCT EVALUATION REPORT	PERIODIC	

REQUIRED SPECIAL INSPECTIONS OF STRUCTURAL STEEL CONSTRUCTION				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
REVIEW THE MATERIAL TEST REPORTS AND CERTIFICATIONS FOR STEEL COMPONENTS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS, INCLUDING PRIMARY STEEL ELEMENTS, STEEL CASTINGS AND FORGINGS, FASTENERS, DECK FASTENERS, ANCHOR RODS AND THREADED RODS, WELDING CONSUMABLES, HEADED STUD ANCHORS, WELDING FILLER METAL AND FLUXES, WELDING PROCEDURE SPECIFICATIONS (WPS), PROCEDURE QUALIFICATION RECORDS FOR WPS THAT ARE NOT PREQUALIFIED, WELDING PERSONNEL QUALIFICATION RECORDS AND CONTINUITY RECORDS, FABRICATOR'S WRITTEN QUALITY CONTROL MANUAL, AND ERECTOR'S QUALITY CONTROL MANUAL.		AISC N5.2	PERIODIC	PERFORM A ONE-TIME REVIEW OF EACH APPLICABLE ITEM
PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL. VERIFY THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE PRIOR TO PLACEMENT OF CONCRETE.		AISC N5.8	PERIODIC	
INSPECT THE FABRICATED STEEL OR ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS AS SHOWN ON THE CONSTRUCTIONS DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION			PERIODIC	

REQUIRED SPECIAL INSPECTION TASKS PRIOR TO WELDING STRUCTURAL STEEL				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS			OBSERVE	
WELDING PROCEDURE SPECIFICATIONS AVAILABLE			PERFORM	
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE			PERFORM	
MATERIAL IDENTIFICATION (TYPE/GRADE)			OBSERVE	
WELDER IDENTIFICATION SYSTEM			OBSERVE	
FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)	1705.2.1	AISC TABLE N5-4-1	OBSERVE	SEE NOTES FOR EXCEPTIONS WHEN WORK IS COMPLETED BY AN APPROVED FABRICATOR/INSTALLER
FIT-UP OF GCP GROOVE WELDS OF HSB T-, Y- AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY): JOINT PREPARATIONS, DIMENTIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)			OBSERVE	
CONFIGURATION AND FINISH OF ACCESS HOLES			OBSERVE	
FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACE), TACKING (TACK WELD QUALITY AND LOCATION)			OBSERVE	

REQUIRED SPECIAL INSPECTION TASKS DURING WELDING STRUCTURAL STEEL				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
CONTROL AND HANDLING OF WELDING CONSUMABLES: PACKAGING, EXPOSURE CONTROL			OBSERVE	
NO WELDING OVER CRACKED TACK WELDS			OBSERVE	
ENVIRONMENTAL CONDITIONS: WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE			OBSERVE	SEE NOTES FOR EXCEPTIONS WHEN WORK IS COMPLETED BY AN APPROVED FABRICATOR/INSTALLER
WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, PROPER WELDING POSITION	1705.2.1	AISC TABLE N5-4.2	OBSERVE	
WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS			OBSERVE	
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS			PERFORM	

REQUIRED SPECIAL INSPECTION TASKS AFTER WELDING STRUCTURAL STEEL				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
WELDS CLEANED			OBSERVE	
SIZE, LENGTH, AND LOCATION OF WELDS			PERFORM	
WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE-METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY			PERFORM	
ARC STRIKES			PERFORM	
K-AREA: WHEN WELDING DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA OF ROLLED SHAPES, VISUALLY INSPECT THE WEB FOR K-AREA CRACKS WITHIN 3" OF THE WELD	1705.2.1	AISC TABLE N5-4.3	PERFORM	SEE NOTES FOR EXCEPTIONS WHEN WORK IS COMPLETED BY AN APPROVED FABRICATOR/INSTALLER
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP SHAPES: AFTER ROLLED HEAVY SHAPES (SEE SECTION A3.1c) AND BUILT-UP HEAVY SHAPES (SEE SECTION A3.1d) ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS			PERFORM	
BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED BY THE CONSTRUCTION DOCUMENTS)			PERFORM	
REPAIR ACTIVITIES			PERFORM	
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER			PERFORM	
NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR			OBSERVE	

REQUIRED SPECIAL INSPECTION TASKS PRIOR TO BOLTING STRUCTURAL STEEL				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS			PERFORM	
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)			OBSERVE	
PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL			OBSERVE	SEE NOTES FOR EXCEPTIONS WHEN WORK IS COMPLETED BY AN APPROVED FABRICATOR/INSTALLER
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	1705.2.1	AISC TABLE N5-6-1	OBSERVE	
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED			OBSERVE	
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS			OBSERVE	

REQUIRED SPECIAL INSPECTION TASKS DURING BOLTING STRUCTURAL STEEL (NOT REQUIRED FOR SNUG-TIGHT JOINTS)				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED			OBSERVE	SEE NOTES FOR EXCEPTIONS WHEN WORK IS COMPLETED BY AN APPROVED FABRICATOR/INSTALLER
JOINT BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	1705.2.1	AISC TABLE N5-6-2	OBSERVE	
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING			OBSERVE	
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RISC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES			OBSERVE	

REQUIRED SPECIAL INSPECTION TASKS AFTER BOLTING STRUCTURAL STEEL				
TASK	IBC REFERENCE	REFERENCE STANDARD	FREQUENCY	REMARKS
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	1705.2.1	AISC TABLE N5-6-3	PERFORM	SEE NOTES FOR EXCEPTIONS WHEN WORK IS COMPLETED BY AN APPROVED FABRICATOR/INSTALLER

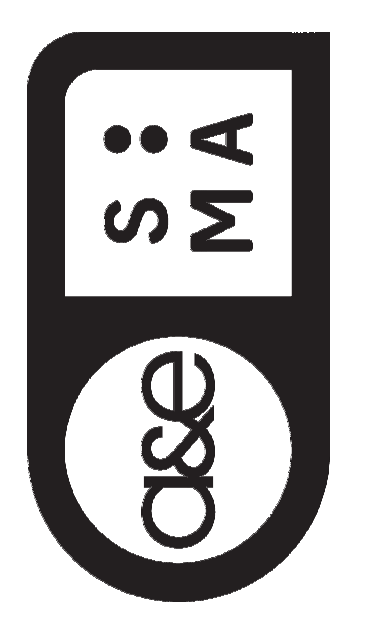


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100% CONSTRUCTION DOCUMENTS

MSU PARKING GARAGE
SAFETY UPGRADES PHASE 01



DRAWN BY: **RLS, MPB**
REVIEWED BY: **DLF**
REV. | DESCRIPTION | DATE
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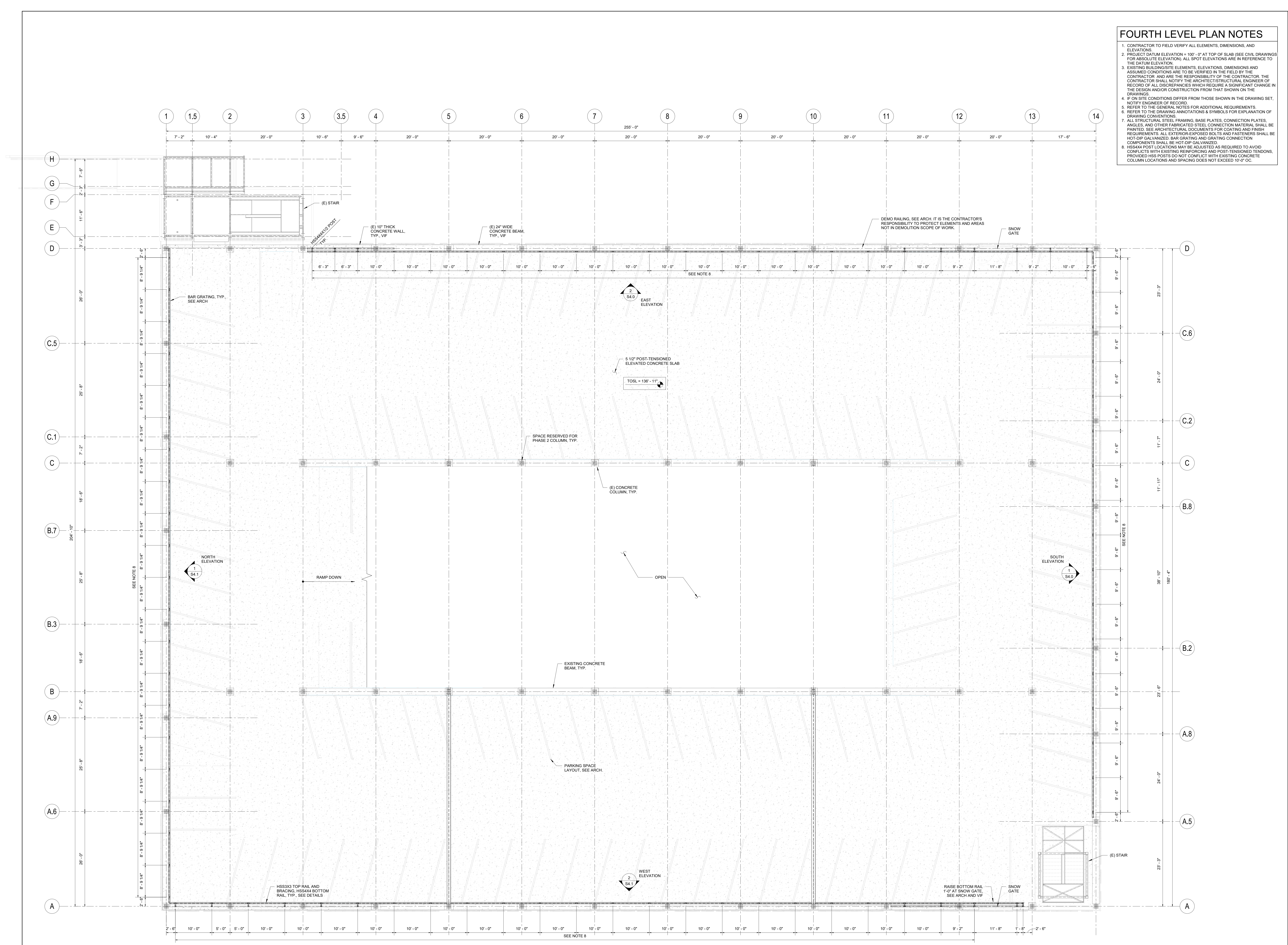
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Consultant #:

STATEMENT OF
SPECIAL
INSPECTIONS

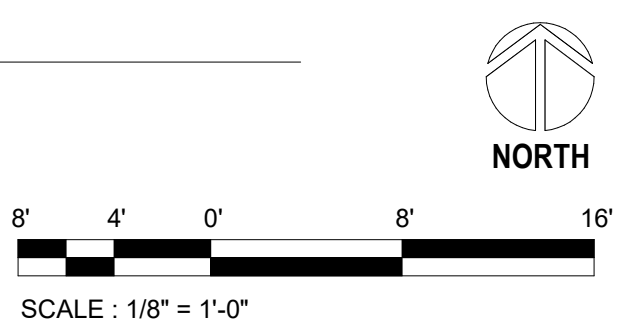
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DATE
09/24/2026



- FOURTH LEVEL PLAN NOTES**
1. CONTRACTOR TO FIELD VERIFY ALL ELEMENTS, DIMENSIONS, AND ELEVATIONS.
 2. PROJECT DATUM ELEVATION = 100'-0" AT TOP OF SLAB (SEE CIVIL DRAWINGS FOR ABSOLUTE ELEVATION). ALL SPOT ELEVATIONS ARE IN REFERENCE TO THE DATUM ELEVATION.
 3. EXISTING BUILDING/SITE ELEMENTS, ELEVATIONS, DIMENSIONS AND ASSUMED CONDITIONS ARE TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR. AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ALL DISCREPANCIES WHICH REQUIRE A SIGNIFICANT CHANGE IN THE DESIGN AND/OR CONSTRUCTION FROM THAT SHOWN ON THE DRAWINGS.
 4. IF ON SITE CONDITIONS DIFFER FROM THOSE SHOWN IN THE DRAWING SET, NOTIFY ENGINEER OF RECORD.
 5. REFER TO THE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
 6. REFER TO THE DRAWING ANNOTATIONS & SYMBOLS FOR EXPLANATION OF DRAWING CONVENTIONS.
 7. ALL STRUCTURAL STEEL FRAMING, BASE PLATES, CONNECTION PLATES, ANGLES, AND OTHER FABRICATED STEEL CONNECTION MATERIAL SHALL BE PAINTED. SEE ARCHITECTURAL DOCUMENTS FOR COATING AND FINISH REQUIREMENTS. ALL EXTERIOR-EXPOSED BOLTS AND FASTENERS SHALL BE HOT-DIP GALVANIZED. BAR GRATING AND GRATING CONNECTION COMPONENTS SHALL BE HOT-DIP GALVANIZED.
 8. HSS/AM POST LOCATIONS MAY BE ADJUSTED AS REQUIRED TO AVOID CONFLICTS WITH EXISTING REINFORCING AND POST-TENSIONED TENDONS. PROVIDED HSS POSTS DO NOT CONFLICT WITH EXISTING CONCRETE COLUMN LOCATIONS AND SPACING DOES NOT EXCEED 10'-0" OC.

1 FOURTH LEVEL FRAMING PLAN
1/8" = 1'-0" REF: 1/S4.0



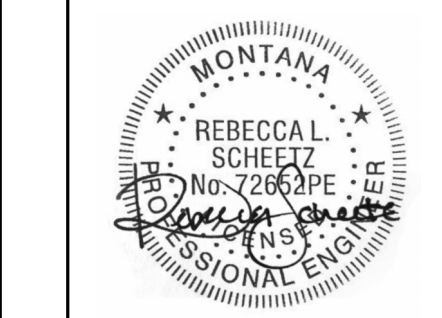
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**MSU PARKING GARAGE
SAFETY UPGRADES PHASE 01**



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REVIEWED BY: DLF		
REV.	DESCRIPTION	DATE
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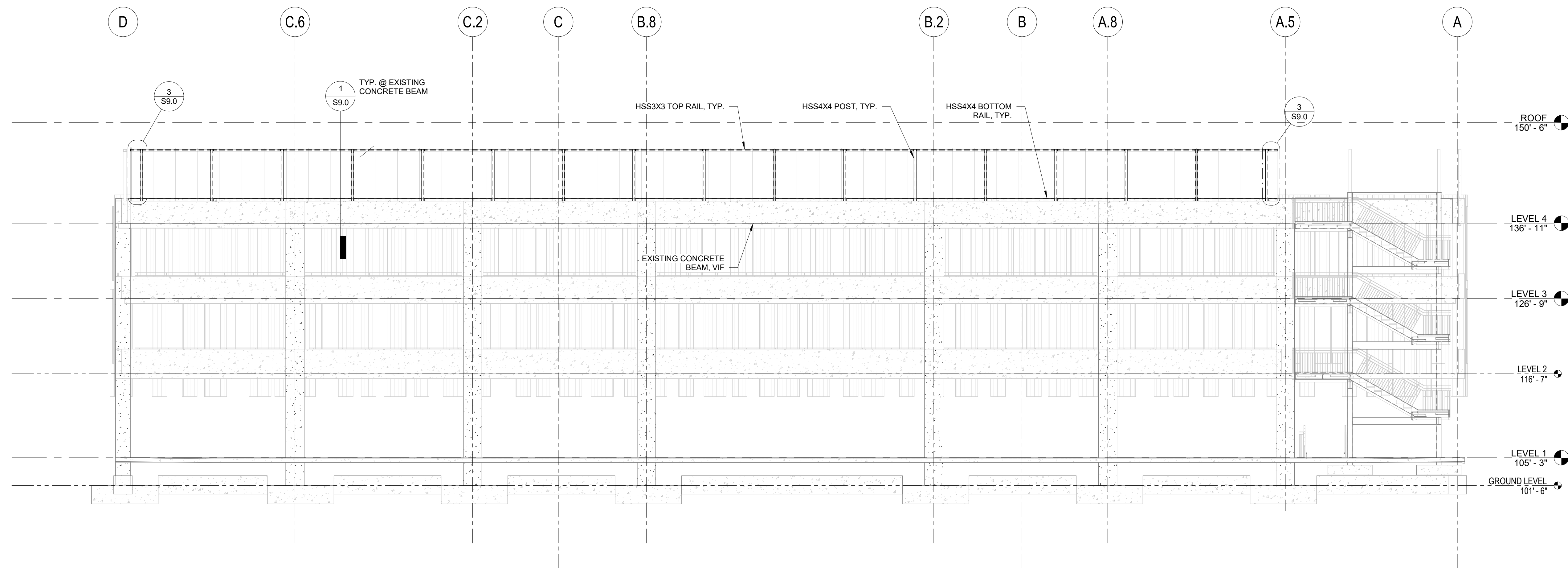


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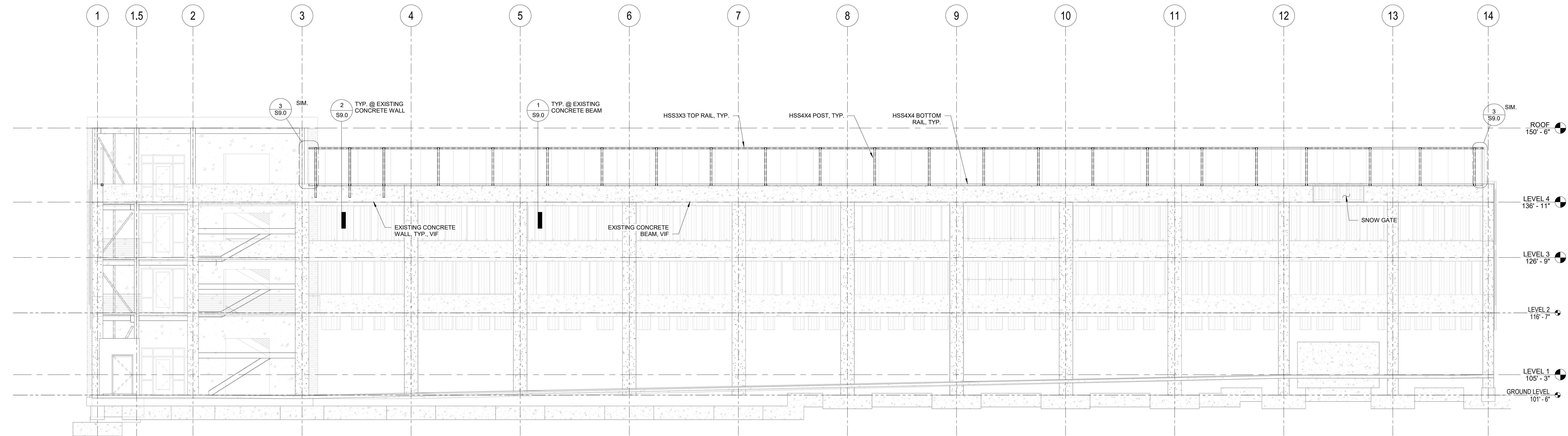
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**FOURTH LEVEL
FRAMING PLAN**

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S2.4

DATE
09/24/2026



1 SOUTH ELEVATION
1/8" = 1'-0" REF: 1/S2.4



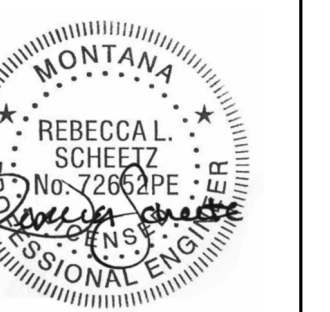
2 EAST ELEVATION
1/8" = 1'-0" REF: 1/S2.4

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MSU PARKING GARAGE SAFETY UPGRADES PHASE 01



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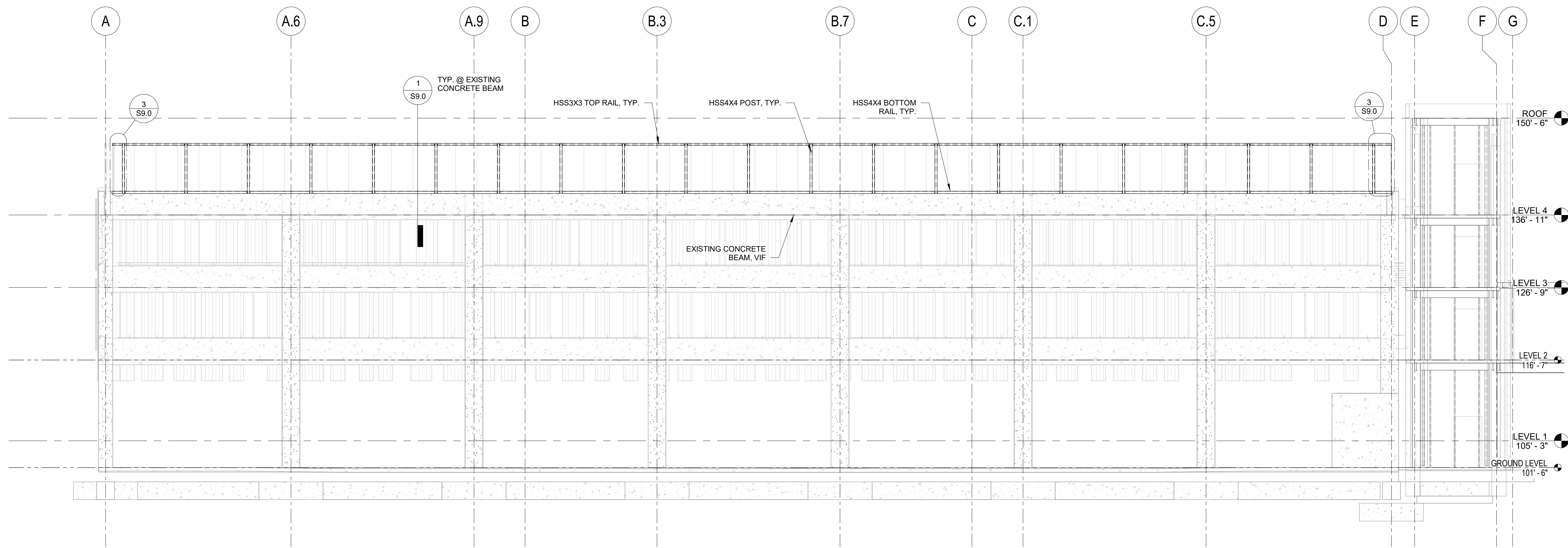
ELEVATIONS

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S4.0

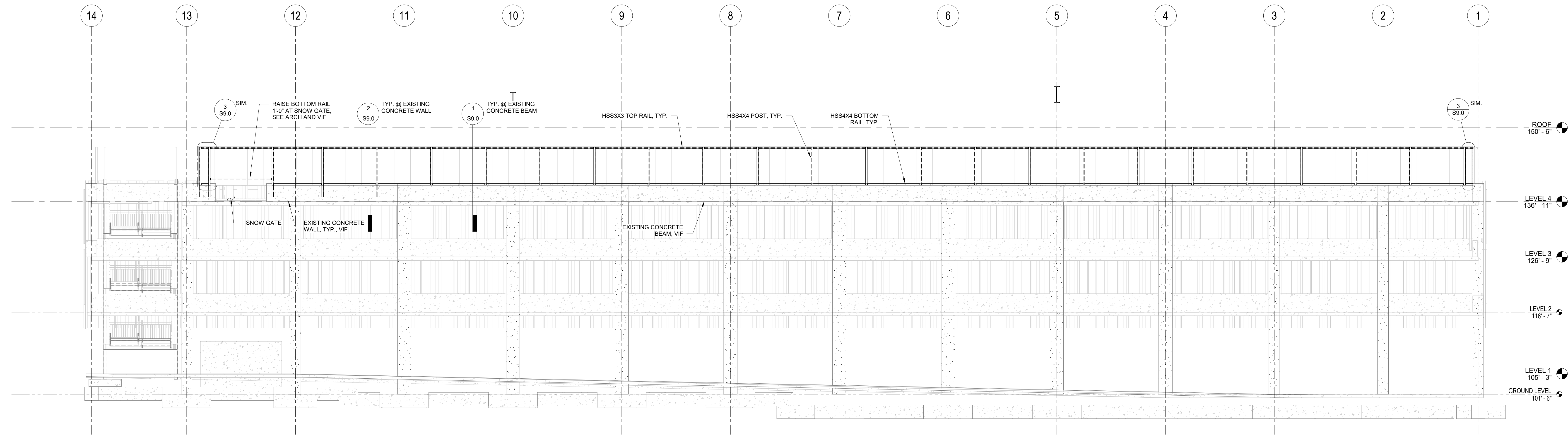
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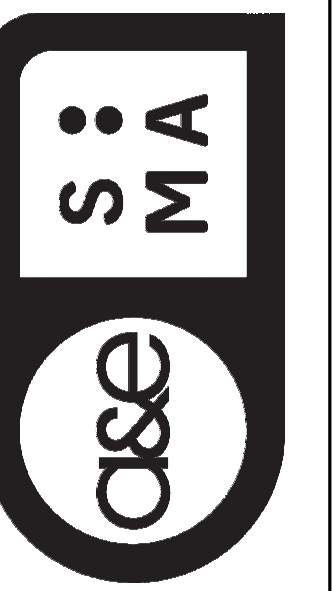
① NORTH ELEVATION
1/8" = 1'-0" REF: 1/S2.4



② WEST ELEVATION
1/8" = 1'-0" REF: 1/S2.4

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ELEVATIONS

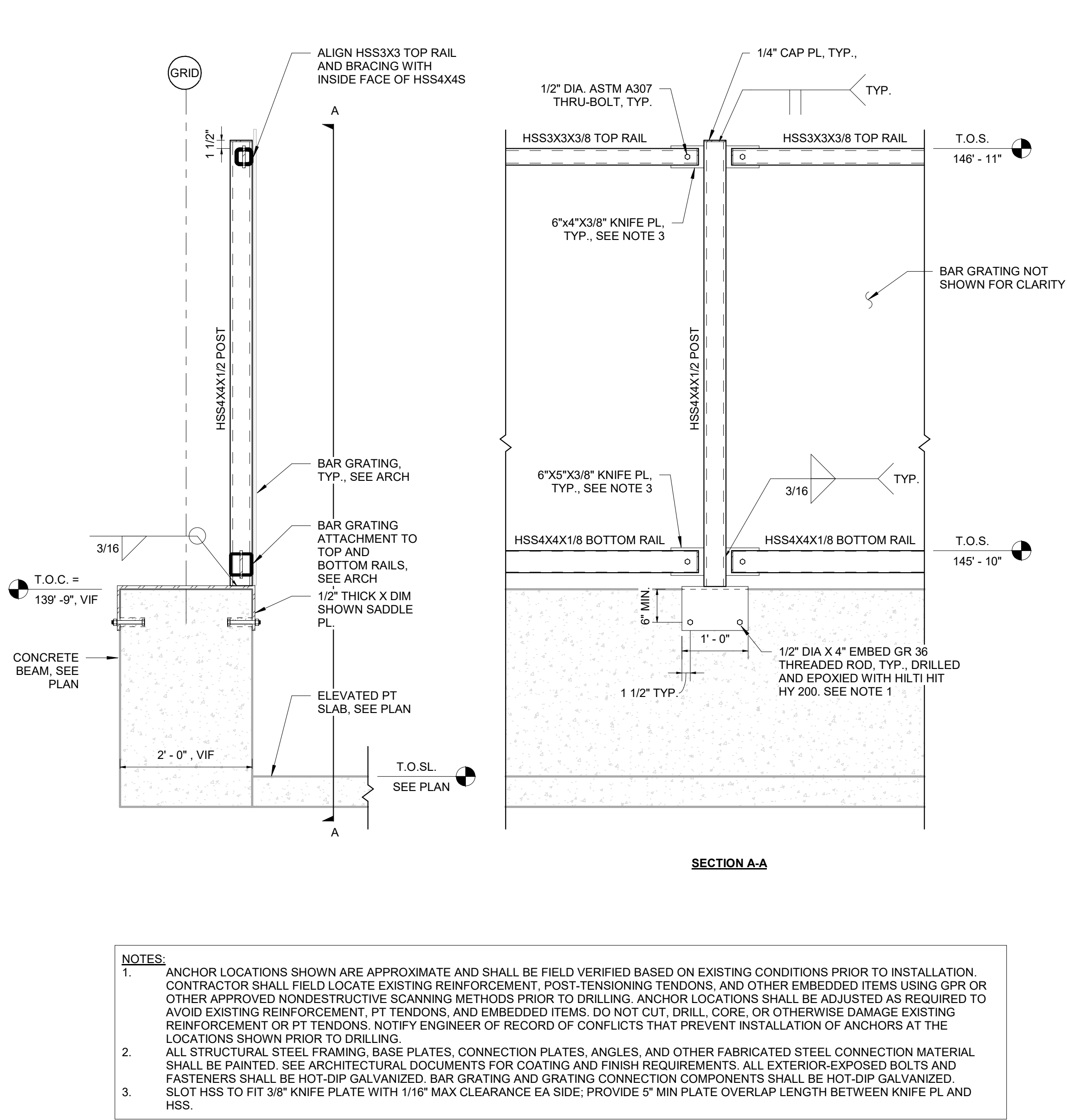
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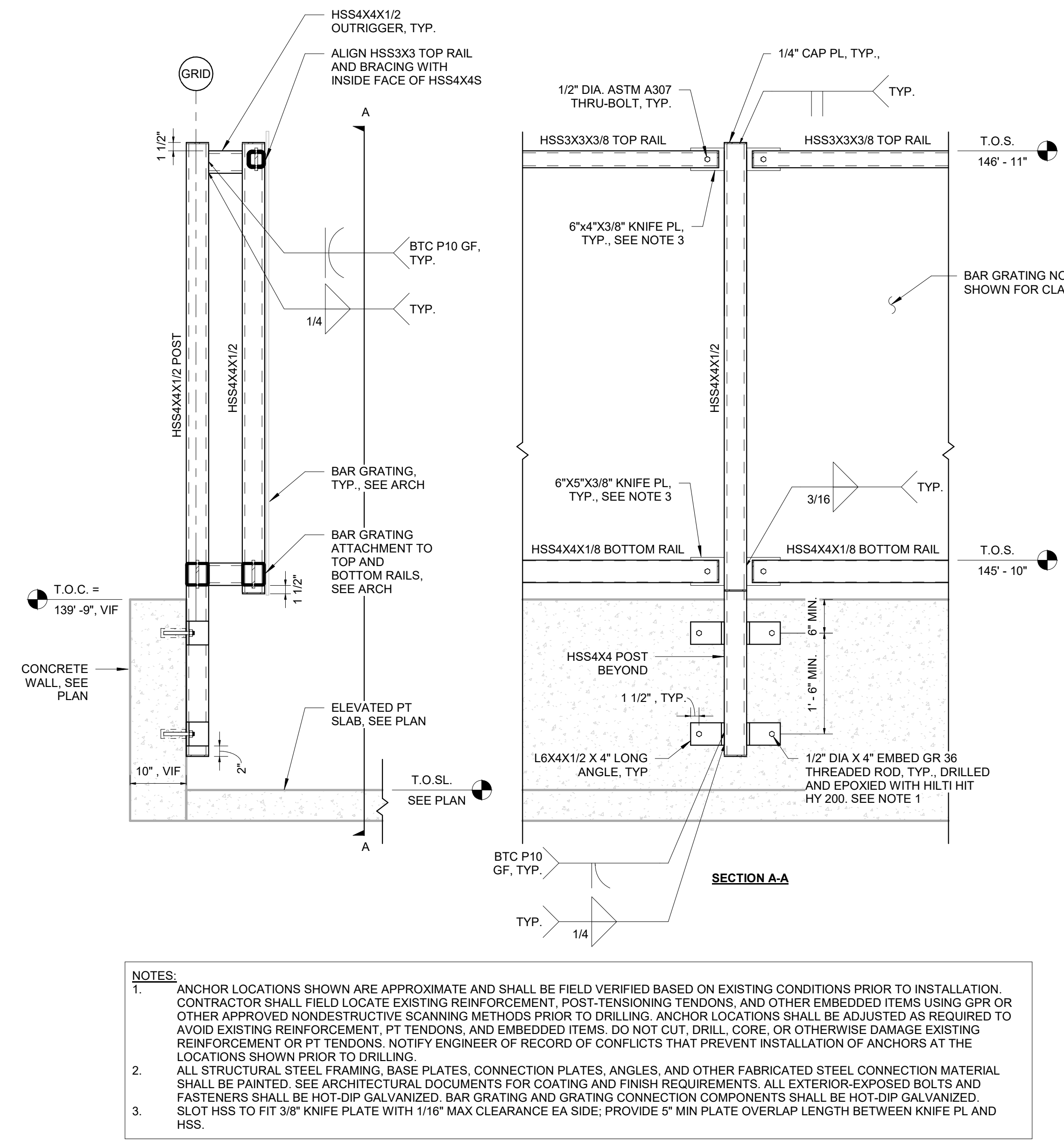
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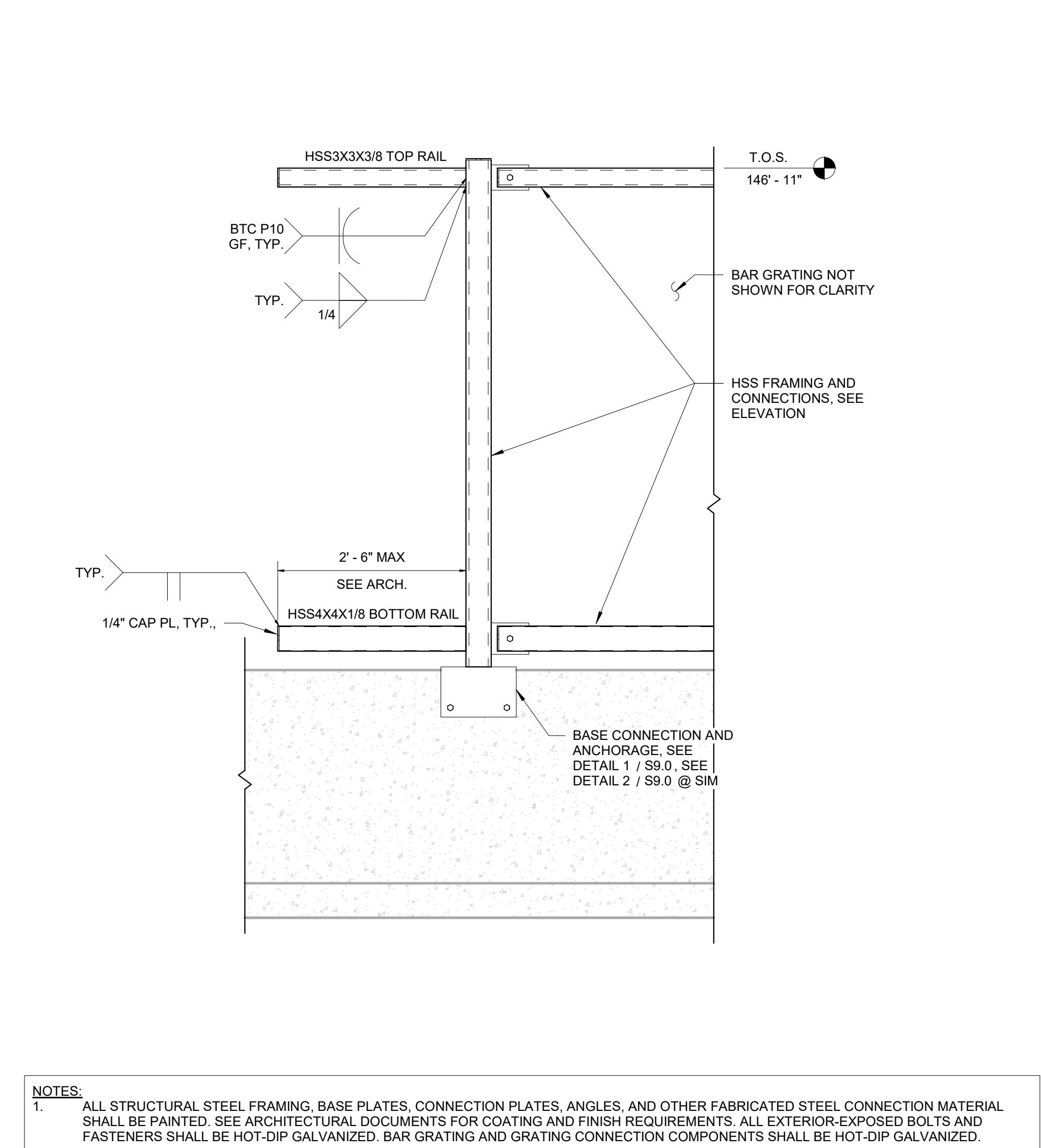
1 FENCE POST CONDITION AT CONCRETE BEAM
3/4" = 1'-0" REF: 1/S4.0



2 FENCE POST CONDITION AT CONCRETE WALL
3/4" = 1'-0" REF: 2/S4.0



3 FENCE POST CONDITION AT CANTILEVERED FENCE
3/4" = 1'-0" REF: 1/S4.0

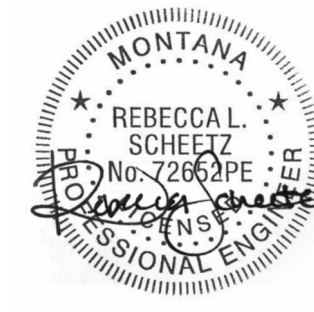


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ANCHORAGE
AND FRAMING
DETAILS

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