

DESIGN STANDARDS			
BUILDING CODE:	2019 OREGON STRUCTURAL SPECIALTY CODE (OSSC)		
GRAVITY			
ROOF LIVE		20 psf	
SNOW			
DESIGN ROOF SNOW LOAD		25 psf	
SNOW DRIFT		PER IBC	
GROUND SNOW LOAD		P <sub>g</sub> = 25 psf	
MIN. ROOF SNOW LOAD		P <sub>g</sub> = 25 psf	
SNOW EXPOSURE FACTOR		C <sub>e</sub> = 1.0	
SNOW IMPACT FACTOR		I <sub>s</sub> = 1.0	
THERMAL FACTOR		C <sub>t</sub> = 1.2	
GEOTECHNICAL			
SOIL REPORT BY:	GEODESIGN, INC (DATED: 7/11/2019)		
ALLOWABLE SOIL BEARING PRESSURE		2,500 psf	
SHORT TERM LOADING		5,000 psf	
WIND			
DESIGN WIND SPEED	V <sub>W</sub> = 98 mph ULTIMATE (3-SECOND GUST)		
EXPOSURE CATEGORY		B	
GUST / INTERNAL PRESSURE		G <sub>Cp</sub> = ± 0.18	
SEISMIC CRITERIA			
RISK CATEGORY		II	
SEISMIC DESIGN CATEGORY		D	
SITE CLASS		D	
IMPORTANCE FACTOR		I <sub>e</sub> = 1.0	
ASCE SPECTRAL ACCEL		S <sub>DS</sub> = 0.912	S <sub>1</sub> = 0.428
SITE COEFFICIENT		F <sub>a</sub> = 1.135	F <sub>v</sub> = 1.572
DESIGN SPECTRAL ACCEL		S <sub>DS</sub> = 0.690	S <sub>1</sub> = 0.449
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PER ASCE 7-16, SECTION 12.8		
	X-DIRECTION (E/W)		
	Y-DIRECTION (N/S)		
SEISMIC FORCE RESISTING SYSTEM (SFRS)	STEEL SPECIAL CANTILEVER COLUMN SYSTEM	STEEL SPECIAL CANTILEVER COLUMN SYSTEM	
RESPONSE MODIFICATION FACTOR	R = 2.5	R = 2.5	
SEISMIC RESPONSE COEFFICIENT		C <sub>s</sub> = 0.28	
DESIGN BASE SHEAR	4.8 kips	4.8 kips	

- GENERAL:
- SPECIFICATIONS AND CODES REFERENCED IN THESE NOTES ARE THE VERSIONS MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY.
  - VERIFY DIMENSIONS AND CONDITIONS WITH THE ARCHITECTURAL DRAWINGS. VERIFY DIMENSIONS AND ELEVATIONS RELATIVE TO THE EXISTING STRUCTURE PRIOR TO FABRICATION OF MATERIALS.
  - ANY DISCREPANCIES FOUND AMONG THE DRAWINGS, THESE GENERAL NOTES, AND THE SITE CONDITIONS SHALL BE REPORTED TO THE REGISTERED DESIGN PROFESSIONAL, WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF SUCH DISCREPANCY, BUT PRIOR TO CORRECTION SHALL BE AT CONTRACTOR'S RISK.
  - SUBSTITUTIONS ARE NOT ALLOWED WITHOUT DOCUMENTATION STATING IT MEETS OR EXCEEDS VALUES OF THE DESIGNATED ELEMENT. ANY SUBSTITUTIONS DOCUMENTATION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) FOR APPROVAL PRIOR TO INSULATION.
  - FOR FEATURES OF CONSTRUCTION NOT FULLY SHOWN, PROVIDE THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.
  - APPLY, PLACE, ERECT OR INSTALL ALL PRODUCTS AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
  - ADEQUATELY BRACE STRUCTURE AND ALL STRUCTURAL COMPONENTS AGAINST WIND, LATERAL EARTH AND SEISMIC FORCES UNTIL THE PERMANENT LATERAL-FORCE RESISTING SYSTEMS HAVE BEEN INSTALLED.
  - TEMPORARY SHORING AND BRACING OF THE STRUCTURE AND PROVIDING A SAFE WORK ENVIRONMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

#### FOUNDATION:

- FOUNDATION ELEVATIONS SHOWN ARE TO TOP OF FOOTINGS.
- PLACE FOOTINGS ON FIRM, UNDISTURBED ORIGINAL SOIL, OR ON STRUCTURAL FILL. SEE "STRUCTURAL FILL OR BACK-FILL" NOTES FOR STRUCTURAL FILL INFORMATION.
- LOCATE BOTTOM OF FOOTINGS AT A MINIMUM OF 1'-6" BELOW FINAL GRADE.
- PRIOR TO PLACEMENT OF CONCRETE, REMOVE ALL DISTURBED SOIL FROM FOOTING EXCAVATION TO NEAT LINES.

#### CONCRETE REINFORCEMENT STEEL:

- REINFORCING STEEL (TYPICAL, U.N.O.): ASTM A 615, GRADE 60
- DETAIL, FABRICATE AND PLACE REINFORCING ACCORDING TO ACI 318, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
- TYPICAL REINFORCING (MINIMUM, U.N.O. ON DRAWINGS):
  - CORNERS AND INTERSECTIONS OF WALLS, FOUNDATIONS, AND PRE-CAST PANEL CORNERS:
    - CORNER BARS EQUAL IN SIZE AND NUMBER TO HORIZONTAL REINFORCING.
    - LEG LENGTH: 48 BAR DIAMETER (2'-0" MINIMUM).
  - DO NOT FIELD BEND, DISPLACE, WELD, HEAT OR CUT REINFORCING UNLESS INDICATED ON THE DRAWINGS, OR APPROVED BY STRUCTURAL ENGINEER OF RECORD.
- REINFORCING LAP SPICES: CONFORM WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".

#### CAST-IN-PLACE CONCRETE:

- PROVIDE CONCRETE MATERIALS, FORM WORK, MIXING, PLACING AND CURING ACCORDING TO ACI 301, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE".

CONCRETE MIX DESIGN TABLE							
MIX	USE	f <sub>c</sub> (psi)	MAX W/C RATIO	AIR %	FLY ASH (lbs/cy)	TARGET SLUMP	COARSE AGG. SIZE
A	FOOTING	3,000	0.52	--	80	4	1 1/2"
B	SLAB ON GRADE	4,000	0.42	5	60	4	2"

#### MIX DESIGN NOTES:

- SEE "CAST-IN-PLACE CONCRETE" SECTION OF STRUCTURAL GENERAL NOTES FOR ADDITIONAL INFORMATION.
- PROPORTION CONCRETE ACCORDING TO ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
- PROVIDE ASTM C150, TYPE I PORTLAND CEMENT.
- SUBMIT MIX DESIGNS, WITH COMPLETE STATISTICAL BACKUP, FOR REVIEW
- PROVIDE ASTM C150, TYPE I PORTLAND CEMENT.

- CONCRETE MIX PROPORTIONS:
  - PROPORTION ACCORDING TO ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
  - PROVIDE TARGET SLUMP AT POINT OF PLACEMENT, +/- 1".
  - MIX SHALL BE APPORTIONED BASED ON MINIMUM AMOUNT OF MIX WATER. SLUMP MODIFICATIONS REQUIRED FOR PLACEMENT IS TO BE ACCOMPLISHED BY THE USE OF ADDITIVES. DO NOT ADD MIX WATER OUTSIDE OF BATCHING PLANT
- SAMPLING AND TESTING OF CONCRETE:
  - MEASURE COMPRESSIVE STRENGTH ACCORDING TO 28 DAY LABORATORY CURED CYLINDERS.
  - SAMPLE AND TEST CONCRETE ACCORDING TO APPLICABLE ASTM SPECIFICATIONS.
  - PROVISIONS OF ACI 318, CHAPTER 26, TO GOVERN ACCEPTANCE OF COMPRESSIVE STRENGTH TEST RESULTS.
  - TEST A MINIMUM OF 3 CONCRETE TEST CYLINDERS FOR EACH 100 CU. YARDS, OR EACH DAY OF POUR, FOR EACH CONCRETE STRENGTH. TEST (1) CYLINDER AT 7 DAYS AND (2) CYLINDERS AT 28 DAYS.
- JOINTS:
  - CONSTRUCTION JOINTS BETWEEN FOOTINGS AND WALLS, COLUMNS OR PILASTERS AND THE SLABS THEY SUPPORT AND WALL CONSTRUCTION JOINTS: ROUGHEN CONTACT AREA TO A FULL AMPLITUDE OF APPROXIMATELY 1/4", LEAVING THE CONTACT SURFACE CLEAN AND FREE OF LAITANCE
  - CONSTRUCTION JOINTS KEYWAYS: PROVIDE WHERE SHOWN ON DRAWINGS.

#### ANCHORS IN CONCRETE:

- INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
  - INSTALL WITH IBC SPECIAL INSPECTION ACCORDING TO SPECIAL INSPECTION PROGRAM.
  - EXPANSION ANCHORS
- |                                 |   |
|---------------------------------|---|
| ICC-APPROVAL:                   | CONFORM WITH FF-S-325, GROUP II, TYPE 4, CLASS 1, [REPORT NO. ESR-1917 (CONCRETE) & ESR-3785 (MASONRY)] |
| MATERIAL                        | ZINC PLATED ACCORDING TO ASTM B 633   |
| APPROVED ANCHORS:               | "Kwik Bolt-T2", BY HILTI FASTENING SYSTEMS, INC.  |
| 4. ADHESIVE ANCHORS (CONCRETE): |   |
| ICC-APPROVAL:                   | [REPORT NO. ESR-3814]   |
| ANCHOR RODS                     | RODS WITH ROLLED THREADS  |
|                                 | ANCHOR ROD NUTS TO CONFORM WITH ASTM A 194  |
|                                 | MATERIAL: A36, ZINC PLATED ACCORDING TO ASTM B-633  |
| ADHESIVE                        | "HIT-RE 500 V3", BY HILTI FASTENING SYSTEMS, INC.   |

#### NON-SHRINK GROUT:

- CONFORM WITH ASTM C 1107 AND C.R.D.-621, CORPS OF ENGINEERS "SPECIFICATIONS FOR NON-SHRINK GROUT"
- SPECIFIED 28 DAY COMPRESSIVE STRENGTH: 5000 PSI.
- DO NOT PRE-GROUT BASE PLATES.

#### STRUCTURAL STEEL:

- FABRICATE, ERECT, IDENTIFY AND PAINT STRUCTURAL STEEL ACCORDING TO AISC SPECIFICATIONS.
- MATERIAL:
  - ANGLES, TEES, CHANNELS AND PLATE: ASTM A 36.
  - STRUCTURAL TUBES: ASTM A 500, GRADE B, F<sub>y</sub> = 48 KSI.
  - WIDE FLANGE SHAPES: ASTM A 992; GRADE 50, CONFORMING WITH AISC TECHNICAL BULLETIN 3.
  - HEADED STUDS AND SHEAR CONNECTORS: COLD-DRAWN BAR STOCK CONFORMING WITH ASTM A 108, GRADES 1010 THROUGH 1018 INCLUSIVE.
- CONNECT ALL MEMBERS WITH SEMI-FINISHED MACHINE BOLTS, ASTM A 307, GRADE A, U.N.O. ON DRAWINGS.
- GALVANIZED BOLTS (ALL BOLTS EXPOSED TO ELEMENTS OR WHERE SHOWN ON DRAWINGS): HOT-DIPPED GALVANIZED ACCORDING TO ASTM A 153, CLASS C, ANCHOR BOLTS:
  - ASTM A 307, GRADE A.
  - PROVIDE WITH STANDARD WASHERS AND NUTS.
  - GALVANIZE BOLTS (WHERE NOTED ON DRAWINGS) ACCORDING TO ASTM A 153, CLASS C, OVER-TAP NUTS TO CLASS 2A FIT BEFORE GALVANIZING, ACCORDING TO ASTM A 563.
- PROVIDE REVELED WASHERS AT BOLT HEADS OR NUTS BEARING ON SLOPING SURFACES.
- WELDING:
  - CONFORM WITH AWS SPECIFICATIONS.
  - WELDERS TO BE QUALIFIED UNDER AWS SPECIFICATIONS.
  - WELDS MATERIAL: 70 KSI FILLER METAL, U.N.O. PROVIDE LOW-HYDROGEN FILLER METALS AT MOMENT FRAME WELDS.
  - WELDS TO GALVANIZED STEEL AND AREAS DAMAGED BY WELDING, FLAME CUTTING OR HANDLING: CLEAN, DRY AND REMOVE OIL, GREASE, SALT AND CORROSIVE PRODUCTS. APPLY ORGANIC COLD GALVANIZING COMPOUND WITH A MINIMUM OF 94% ZINC DUST IN THE DRY FILM. APPLY IN MULTIPLE COATS TO ACHIEVE AN 8 MIL THICKNESS.
- CONTRACTOR TO DESIGN AND PROVIDE ERECTION AIDS (BOLTS, CLIPS, SHIMS, SEATS, ETC.) REQUIRED TO FACILITATE CONSTRUCTION.
- INSTALL AND INSPECT HEADED STUDS AND SHEAR CONNECTORS ACCORDING TO CHAPTER 7 OF AWS D1.1 "STRUCTURAL WELDING CODE-STEEL".
- EMBEDDED STEEL ASSEMBLIES: HOT-DIP GALVANIZE ACCORDING TO ASTM A 123, WHERE NOTED ON DRAWINGS.
- SHOP FINISH:
  - CLEAN ALL SURFACES OF RUST, SCALE, GREASE AND ALL DAMAGING FOREIGN SUBSTANCE.
  - APPLY ONE COAT OF PRIMER EVENLY AND THOROUGHLY.
  - SURFACES IN CONTACT WITH CONCRETE OR CONCRETE ENCASED MEMBERS SHALL BE THOROUGHLY CLEANED ONLY.

AA	ADHESIVE ANCHOR
AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ADJ	ADJACENT
AF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS
AWG	AMERICAN WIRE GAUGE
BLD'G	BUILDING
BLK'G	BLOCKING
BM	BEAM
BN	BOUNDARY NAILING
B.A.	BOTTOM OF
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR(ANCE)
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACT(OR)
CSK	COUNTERSINK
CNTR	CENTER
d	PENNY (NAIL SIZE)
DBL	DOUBLE
DK	DECK or DECKING
DEMO	DEMOLITION
DTL	DETAIL
DF	DOUGLAS FIR
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIST	DISTANCE
DN	DOWN
do	DITTO
DWG	DRAWING
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
EMB	EMBEDMENT
EN	EDGE NAILING
ENGR	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH SIDE
EW	EACH WAY
EXCAV	EXCAVATE or EXCAVATION
EXP	EXPANSION
EXT	EXTERIOR

#### PLYWOOD SHEATHING:

- PLYWOOD MATERIAL:
  - GRADE: C-D, U.N.O.
  - MANUFACTURE WITH EXTERIOR GLUE ACCORDING TO UNITED STATES PRODUCT STANDARD PS-1 (SANS) A199.1.
- CONFORM WITH IBC STANDARD 23-2.
- BEAR THE AMERICAN PLYWOOD ASSOCIATION (APA) TRADEMARK.
- SUBSTITUTION OF ORIENTED STRAND BOARD (OSB) FOR PLYWOOD IS ACCEPTABLE IF THE OSB:
  - CONFORMS WITH STANDARD 23-34, GRADE 2-M-W.
  - IS MANUFACTURED WITH EXTERIOR GLUE.
  - HAS A LOAD/SPAN RATING INDEX EQUAL TO PLYWOOD.
  - BEARS THE APA TRADEMARK.
- PLYWOOD LAYOUT AND INSTALLATION:
  - LAY OUT PLYWOOD TO ELIMINATE WIDTHS LESS THAN 1'-0" AT ROOFS, OR LESS THAN 2'-0" AT FLOORS, UNLESS ALL EDGES OF UNDERSIZED PIECES ARE SUPPORTED BY BLOCKING.
  - PROVIDE PANEL SPACING ACCORDING TO APA RECOMMENDATIONS.
  - BLOCK SHEAR WALL SHEATHING WITH 2x4 PLAT BLOCKING AT ALL EDGES.
  - NAIL ACCORDING TO SCHEDULE AND DRAWINGS.
  - PROTECT FLOOR AND ROOF SHEATHING FROM EXTREME WET CONDITIONS.

#### WOOD CONNECTIONS:

- FRAMING CONNECTORS: SIMPSON STRONG-TIE OR APPROVED (HOT-DIPPED GALVANIZED OR STAINLESS STEEL), FILL ALL NAIL, SCREWS, AND BOLT HOLES AS SPECIFIED BY THE CONNECTOR MANUFACTURER, UNLESS NOTED OTHERWISE. HANGERS ARE TO DEVELOP BENDING STRENGTH OF MEMBERS, U.N.O. ON DRAWINGS (ALL FASTENERS ARE TO BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL).
- ANCHOR BOLTS: ASTM A307 OR ASTM A 36.
- PROVIDE HOT DIPPED GALVANIZED FINISH ON ANCHOR BOLTS. EXPANSION ANCHORS OR THREADED RODS USED TO CONNECT PRESSURE TREATED LUMBER TO CONCRETE OR MASONRY.
- PROVIDE STANDARD PLATE WASHERS UNDER HEADS OR NUTS OF BOLTS BEARING ON WOOD.

#### QUALITY ASSURANCE PROGRAM FOR LATERAL FORCE RESISTING SYSTEMS:

- THE LATERAL FORCE RESISTING SYSTEM (LFRS) RESISTING SEISMIC AND WIND FORCES CONSISTS OF STEEL SPECIAL CANTILEVER COLUMN SYSTEM
- PROVIDE SPECIAL INSPECTION, FOR THE TYPES OF WORK SHOWN IN THE "SPECIAL INSPECTION SCHEDULE", ACCORDING TO REPORTING AND COMPLIANCE PROCEDURES INCLUDED IN SECTION 1704 OF THE IBC, AND AS DETAILED IN THESE NOTES
- THE STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE STRUCTURAL OBSERVATION AT DESIGNATED STAGES OF CONSTRUCTION.

#### SPECIAL INSPECTION AND TESTING PROGRAM:

- PROVIDE SPECIAL INSPECTION, SPECIAL TESTING, REPORTING AND COMPLIANCE PROCEDURES ACCORDING TO IBC CHAPTER 17.
- SEE "SPECIAL INSPECTION SCHEDULE" FOR WORK REQUIRING SPECIAL INSPECTION.
- SEE "SPECIAL TESTING SCHEDULE" FOR WORK REQUIRING SPECIAL TESTING.
- SPECIAL INSPECTOR QUALIFICATIONS: DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION IN QUESTION.
- PRIOR TO THE BEGINNING OF CONSTRUCTION, REVIEW THE SPECIAL INSPECTION REQUIREMENTS WITH THE ARCHITECT, ENGINEER, BUILDING OFFICIAL, CONTRACTOR AND SPECIAL INSPECTORS.
- DUTIES OF THE SPECIAL INSPECTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - OBSERVE THE WORK FOR CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE ENGINEER AND TO THE BUILDING OFFICIAL.
  - FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, ARCHITECT, ENGINEER, AND CONTRACTOR IN A TIMELY MANNER.
  - SUBMIT A FINAL REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED, AND WHETHER THE WORK IS IN CONFORMANCE WITH THE APPROVED PERMIT DRAWINGS AND SPECIFICATIONS.
- DUTIES OF THE CONTRACTOR INCLUDE, BUT ARE NOT LIMITED TO:
  - NOTIFY SPECIAL INSPECTOR THAT WORK IS READY FOR INSPECTION AT LEAST 24 HOURS BEFORE INSPECTION IS REQUIRED.
  - MAINTAIN ACCESS TO WORK REQUIRING SPECIAL INSPECTION UNTIL IT HAS BEEN OBSERVED AND INDICATED TO BE IN CONFORMANCE BY THE SPECIAL INSPECTOR AND APPROVED BY THE BUILDING OFFICIAL.
  - PROVIDE THE SPECIAL INSPECTOR WITH ACCESS TO APPROVED PERMIT DRAWINGS AND SPECIFICATIONS AT THE JOB SITE.
  - MAINTAIN JOB-SITE COPIES OF ALL REPORTS SUBMITTED BY THE SPECIAL INSPECTOR.

#### STRUCTURAL OBSERVATION:

- STRUCTURAL OBSERVATIONS BY THE ENGINEER OF RECORD (EOR) OR THEIR REPRESENTATIVE SHALL BE REQUIRED AT THE FOLLOWING STAGES DURING CONSTRUCTION:
  - PRIOR TO THE COMMENCEMENT OF THE PLACING OF CONCRETE IN THE FOUNDATION
  - DURING THE INSTALLATION OF THE HORIZONTAL DIAPHRAGMS.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD (EOR) AT LEAST FOUR (4) CALENDAR DAYS IN ADVANCE OF COMPLETION REQUIRING SITE OBSERVATION.
- IF ADDITIONAL SITE VISITS OR DESIGN WORK IS REQUIRED BY THE ENGINEER BECAUSE OF INCOMPLETE OR UNACCEPTABLE WORK, THE ENGINEER SHALL BE REIMBURSED FOR ALL TIME AND EXPENSES INVOLVED.

&	AND	FF	FAR FACE	R/RAD	RADIUS
@	AT	FND	FOUNDATION	REF	REFERENCE
Ø	DIAMETER	FIN	FINISH	REINF	REINFORCED
(E)	EXISTING	FLR	FLOOR	REQ'D	REQUIRED
(N)	NEW	FO	FACE OF	REVISE	OR REVISION
#	NUMBER	FOC	FACE OF CONCRETE	RO	ROUGH OPENING
		FOS	FACE OF STUDS		
AA	ADHESIVE ANCHOR	FRMW	FRAMING	SAD	SEE ARCH. DOCUMENTS
AB	ANCHOR BOLT	FS	FAR SIDE	SCHED	SCHEDULE
ADD'L	ADDITIONAL	ft	FOOT AND FEET	SECT	SECTION
ADJ	ADJACENT	FTG	FOOTING	SHT	SHEET or SHEATHING
AF	ABOVE FINISH FLOOR			SIM	SIMILAR
ALT	ALTERNATE	GA	GAUGE	SL	SLOPE
APPROX	APPROXIMATE	GALV	GALVANIZED	SPEC	SPECIFICATION
ARCH	ARCHITECT(URAL)	GL	GLUE-LAMINATED	SOG	SLAB ON GRADE
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	GRND	GROUND	SO	SQUARE
		GR	GRADE	STAG	STAGGER or STAGGERED
AWG	AMERICAN WIRE GAUGE	GWB	GYPSPUM WALL BOARD		
				SS	STAINLESS STEEL
BLD'G	BUILDING	HD	HOLD/DOWN	STD	STANDARD
BLK'G	BLOCKING	HOG	HOT-DIPPED	STIFF	STIFFENER
BM	BEAM			STIR	STIRRUPS(S)
BN	BOUNDARY NAILING	HGR	HANGER	STL	STEEL
B.A.	BOTTOM OF	HK	HOOK	STRUC	STRUCTURAL
BOT	BOTTOM	HORIZ	HORIZONTAL	SUBST	SUBSTITUTE
BRG	BEARING	HP	HIGH POINT	SUSP	SUSPENDED
BTWN	BETWEEN	HS	HEADED STUD	SYM	SYMMETRICAL
		HSS	HOLLOW STRUCTURAL STEEL		
CJ	CONTROL JOINT	HT	HEIGHT	T&B	TOP AND BOTTOM
CL	CENTERLINE	HVAC	HEATING, VENTILATION & AIR CONDITIONING	T&G	TONGUE AND GROOVE
CLR	CLEAR(ANCE)			THK	THICK
COL	COLUMN			THRU	THROUGH
CONC	CONCRETE			T.O.	TOP OF
CONN	CONNECTION	ID	INSIDE DIAMETER	TYP	TYPICAL
CONST	CONSTRUCTION	INSUL	INSULATION		
CONT	CONTINUOUS	INT	INTERIOR	UNO	UNLESS NOTED OTHERWISE
CONTR	CONTRACT(OR)	LD	DEVELOPMENT LENGTH		
CSK	COUNTERSINK	LLH	LONG LEG HORIZONTAL	VERT	VERTICAL
CNTR	CENTER	LLV	LONG LEG VERTICAL		
		LP	LOW POINT	w/	WITH
		LT	LIGHT	w/o	WITHOUT
				WD	WOOD
		MAX	MAXIMUM	WF	WIDE FLANGE
		MB	MACHINE BOLT	WP	WORK POINT or WATER
		MBR	MEMBER		PROOF
		MECH	MECHANICAL	WT	WEIGHT
		MEZZ	MEZZANINE	WWF	WELDED WIRE FABRIC
		MTL	METAL		
		MANUF	MANUFACTURER	x	BY (DIMS)
		MIN	MINIMUM		
		MISC	MISCELLANEOUS		
		MTD	MOUNTED		

SPECIAL INSPECTION PROGRAM				
TYPE OF WORK	INSPECTION	COMMENTS	REFERENCE STANDARDS	IBC REFERENCE
SOIL				
EXCAVATION, FOUNDATION SUBGRADE	P	BY GEOTECHNICAL ENGINEER		1705.6
STRUCTURAL FILL PLACEMENT	P	BY GEOTECHNICAL ENGINEER		1705.6, 1803.5
CONCRETE				
REINFORCING PLACEMENT	P		ACI 318: CH. 20, 25.2-25.3, 26.6.1-26.6.3	
CAST IN PLACE BOLTS & ANCHORS	C		ACI 318: 17.8.2	
MONITORING USE OF REQUIRED DESIGN MIX	P	SEE NOTE 7	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2
SAMPLING FRESH CONCRETE; TAKING OF TEST SPECIMENS	C		ASTM C 172, ASTM C 31 - ACI 318: 26.4, 26.12	
CONCRETE PLACEMENT	C		ACI 318: 26.5	
MAINTENANCE OF SPECIFIED CURING TECHNIQUES	P		ACI 318: 26.5.3-26.5.5	
INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS	P		ACI 318: 26.11.1,2(b)	
ANCHORS INSTALLED INTO HARDENED CONCRETE / MASONRY				
ADHESIVE ANCHORS	C	REQUIREMENTS PER ICC REPORT		
EXPANSION ANCHORS	P	REQUIREMENTS PER ICC REPORT		
STRUCTURAL STEEL MEMBERS				
INSPECTION OF AS-BUILT FRAME JOINTS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS	P		AISC LRFD: SECTION A3.5	1704.3.2
FIELD ERECTION	P			
FABRICATION	P			
WELD MATERIAL VERIFICATION	P			
SINGLE PASS FILLET WELDS < 5/16"	P		AISC 360:N5.4,N5.5, AISC 341:J6 AWS D1.1	1705.2

- C = CONTINUOUS  
P = PERIODIC
- INSPECTIONS SHOWN TO BE REQUIRED SHALL BE ACCOMPLISHED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGN COMPONENTS.
- CONTINUOUS SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON THE SITE AT ALL TIMES OBSERVING THE WORK REQUIRING SPECIAL INSPECTION (IBC 1702.1). PERIODIC SPECIAL INSPECTION MEANS THAT THE SPECIAL INSPECTOR IS ON SITE AT TIME INTERVALS NECESSARY TO CONFIRM THAT ALL WORK REQUIRING SPECIAL INSPECTION IS IN COMPLIANCE.
- SPECIAL INSPECTION NOT REQUIRED FOR WORK PERFORMED BY AN APPROVED FABRICATOR PER IBC SECTION 1704.2.
- ALL WELDS SHALL BE VISUALLY INSPECTED.
- VERIFY DEVIATION FROM MIX DESIGN BY SITE ADDITIONS OF WATER OR OTHER ADDITIVES.
- CONTINUOUS INSPECTION IS REQUIRED AS FOLLOWS:
  - WHEN WELDING IS **NOT** DONE IN AN APPROVED FABRICATION SHOP PER IBC 1704.2.
  - WHERE SINGLE PASS FILLET WELDS EXCEED  $\frac{5}{16}$ " IN SIZE.
  - AT ALL PARTIAL OR COMPLETE JOINT PENETRATION WELDS.
- LFRS: LATERAL FORCE RESISTING SYSTEM.

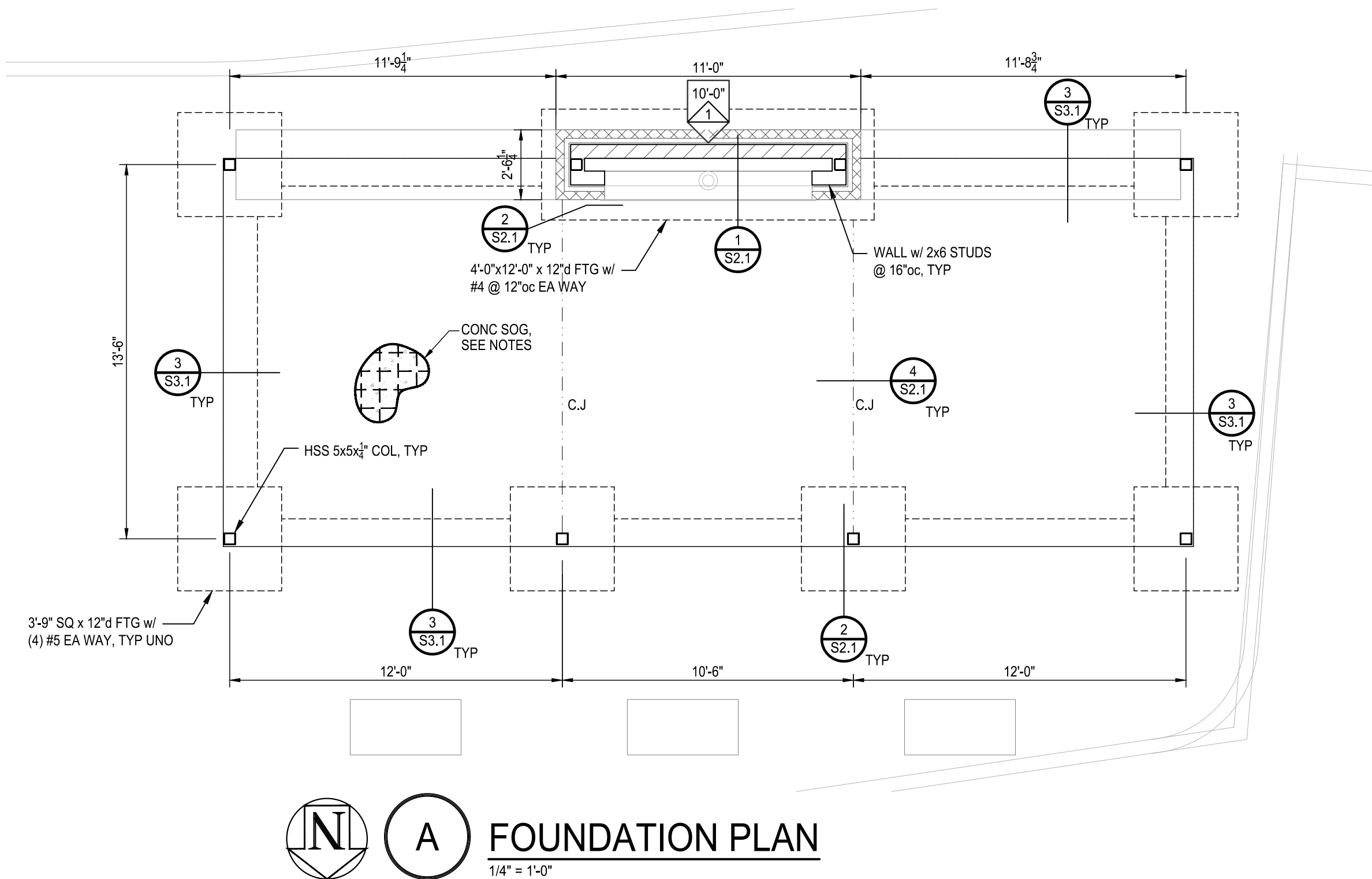
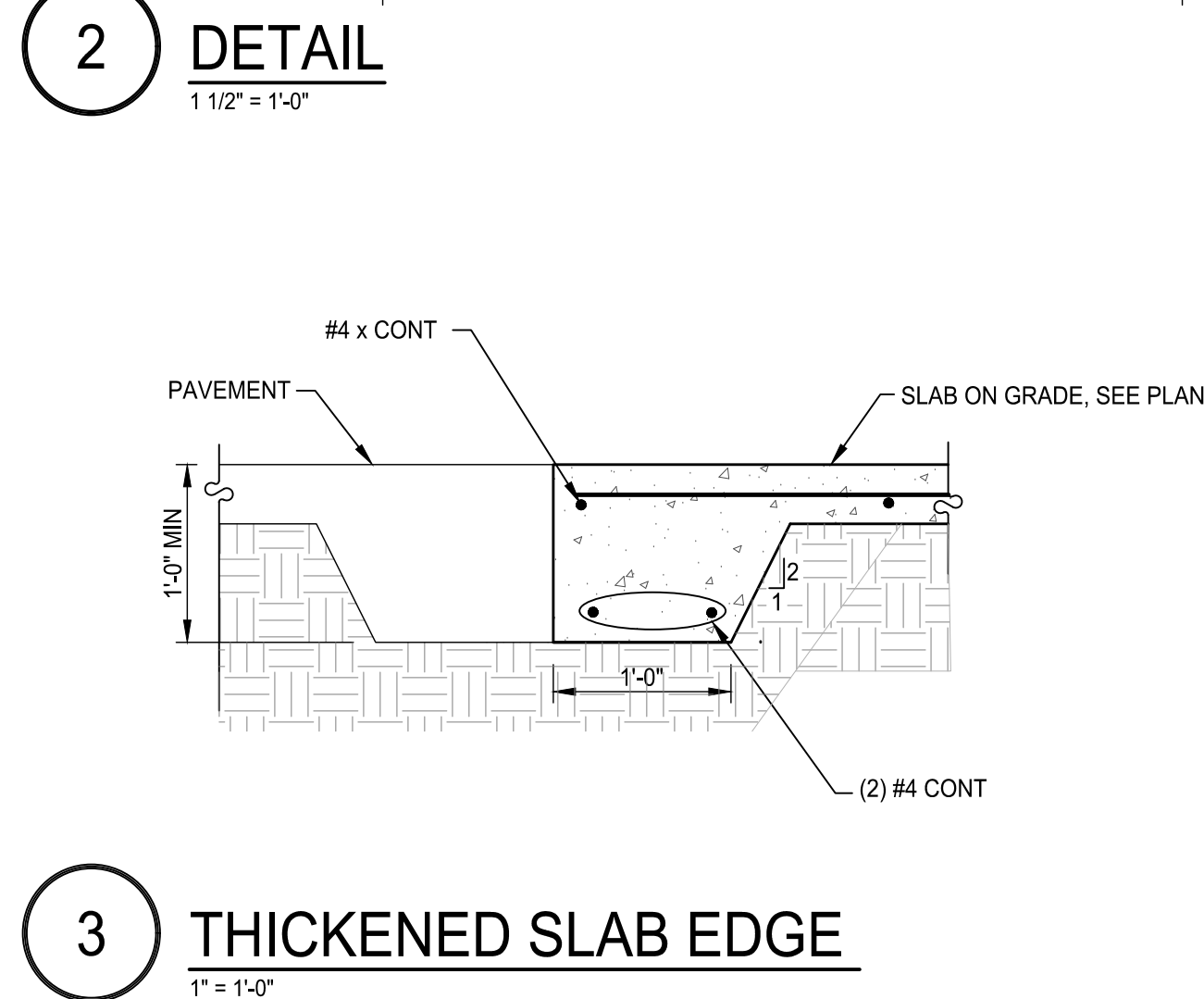
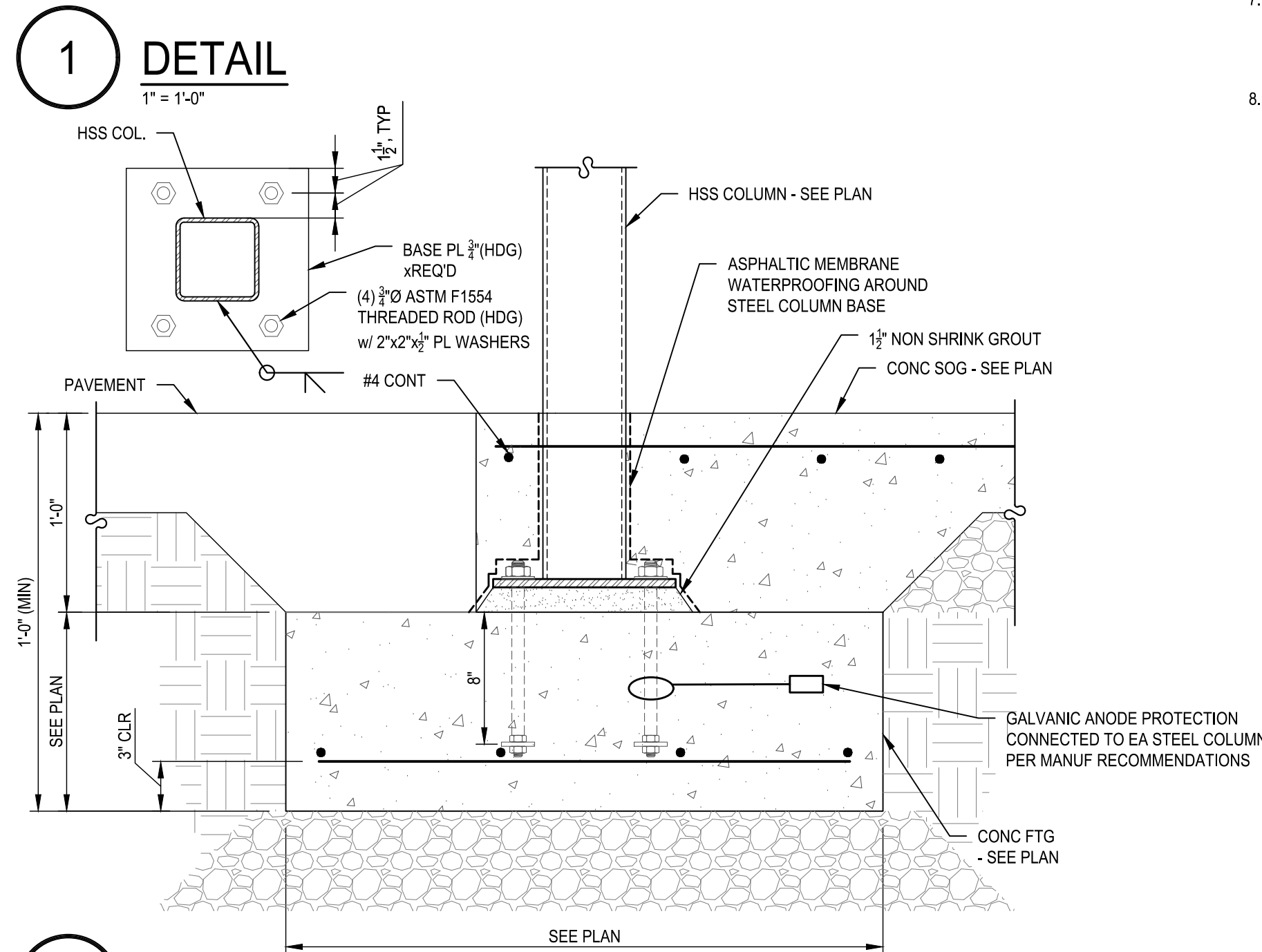
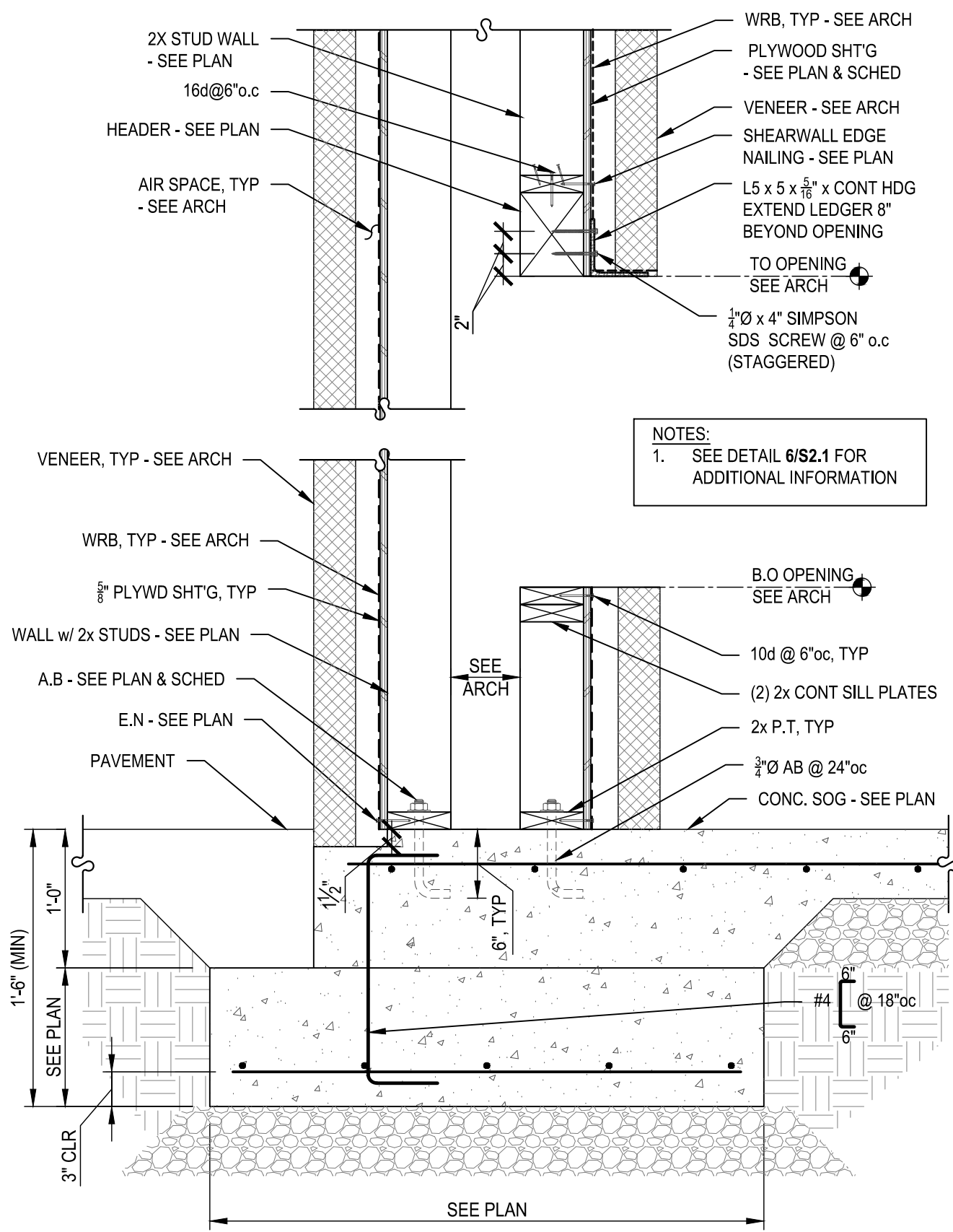
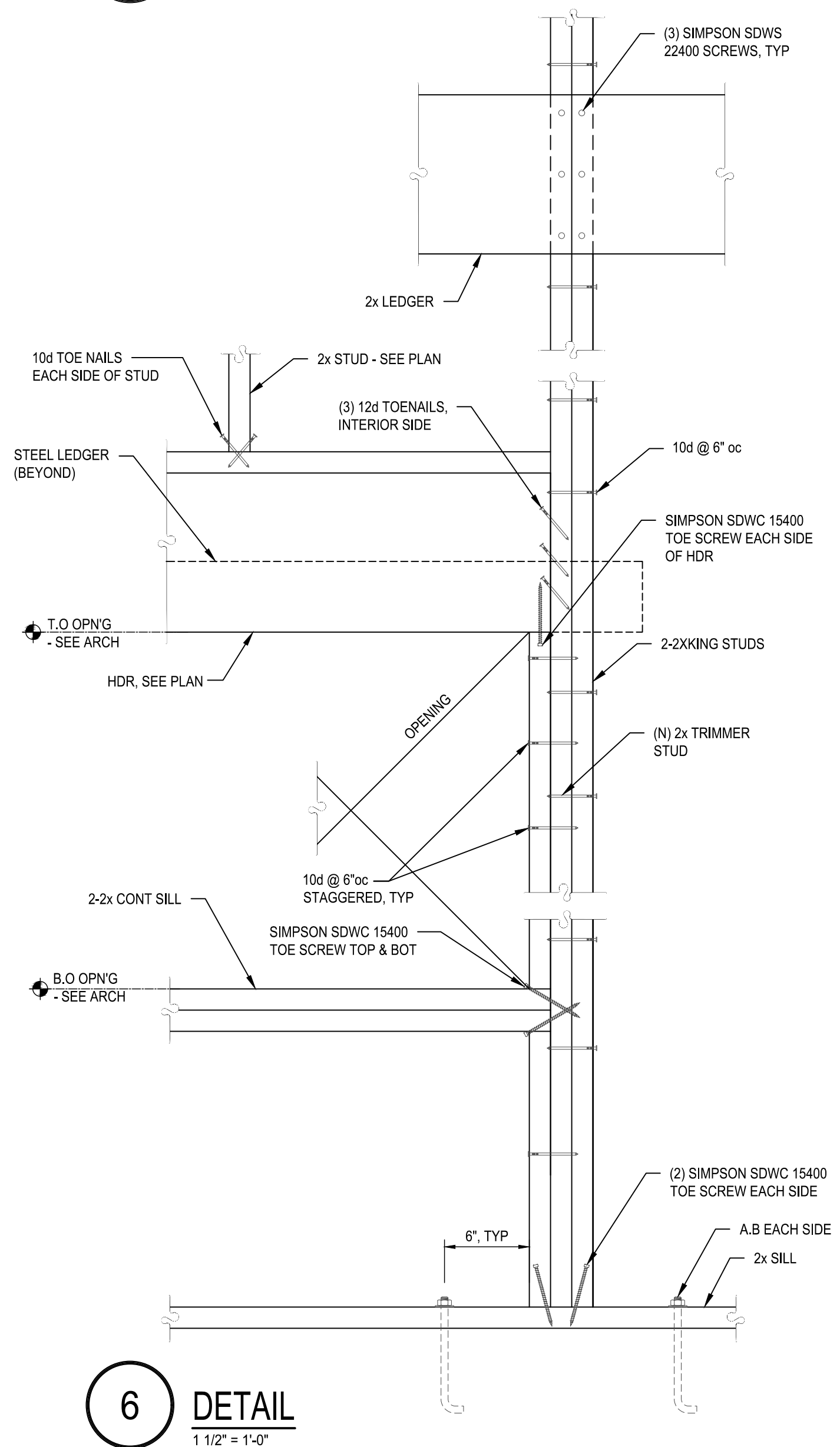
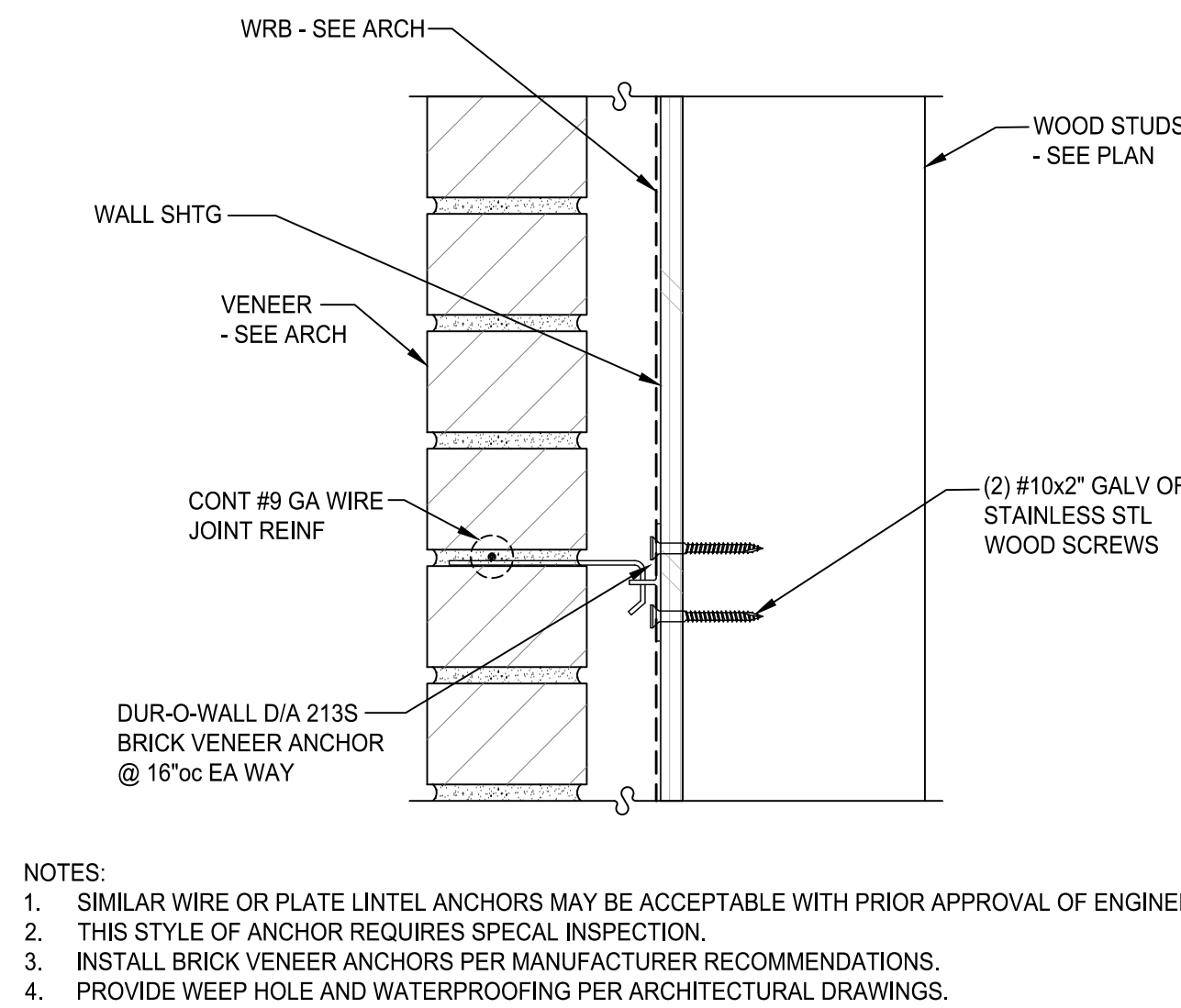
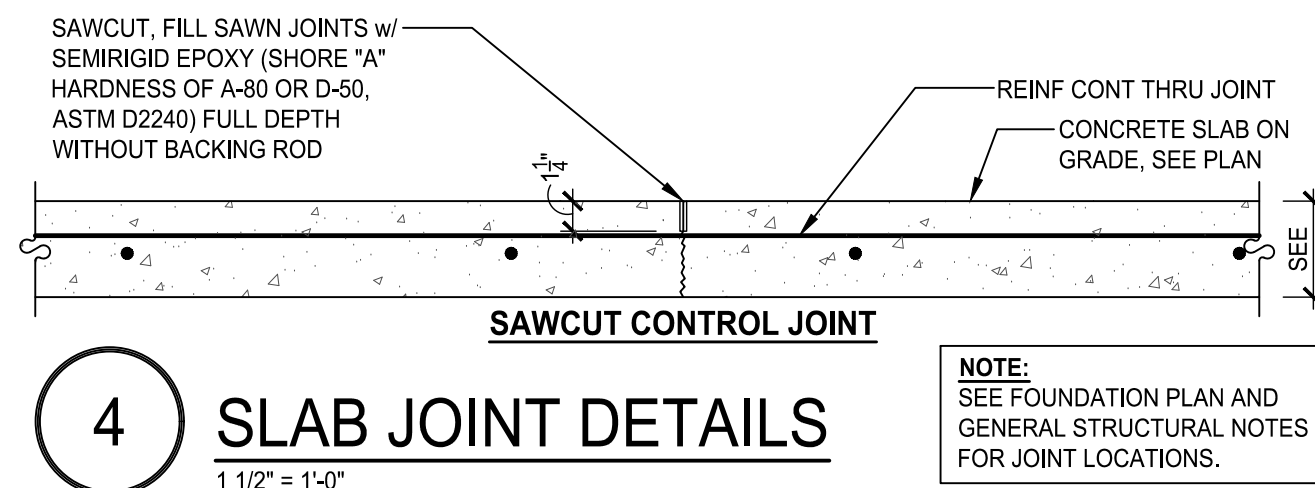
## 1 SPECIAL INSPECTIONS SCHEDULE

SPECIAL TESTING PROGRAM				
TYPE OF MATERIAL	TYPE OF TEST	FREQUENCY	REFERENCE	NOTES
STRUCTURAL FILL / BACKFILL	FIELD DENSITY	SEE NOTE 2		SEE STRUCTURAL FILL NOTES FOR TESTING METHOD.
CONCRETE	CYLINDER COMPRESSIVE STRENGTH	3 CYLINDERS / 100 CY / DAY / EACH MIX DESIGN	ASTM C 31 ASTM C 39	TEST 1 CYLINDER AT 7 DAYS, 2 AT 28 DAYS.

- TESTING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED TESTING LABORATORY. SAMPLES SHALL BE OBTAINED BY CERTIFIED SPECIAL INSPECTORS AND TESTED BY QUALIFIED PERSONNEL.
- STRUCTURAL FILL / BACKFILL DENSITY TESTING FREQUENCY: WALL BACKFILL & FOOTINGS: 1 PER 100 FT OF LENGTH PER BACKFILL LAYER, MINIMUM OF 2 TESTS. SLAB FILL: 1 EVERY 2000 SQ. FT. PER FILL LAYER, MINIMUM OF 3 TESTS.
- OTHER NON-DESTRUCTIVE METHODS PER AWS D1.1, ANNEX K MAY BE ACCEPTABLE WITH ENGINEERS APPROVAL.

## 2 SPECIAL TESTING SCHEDULE

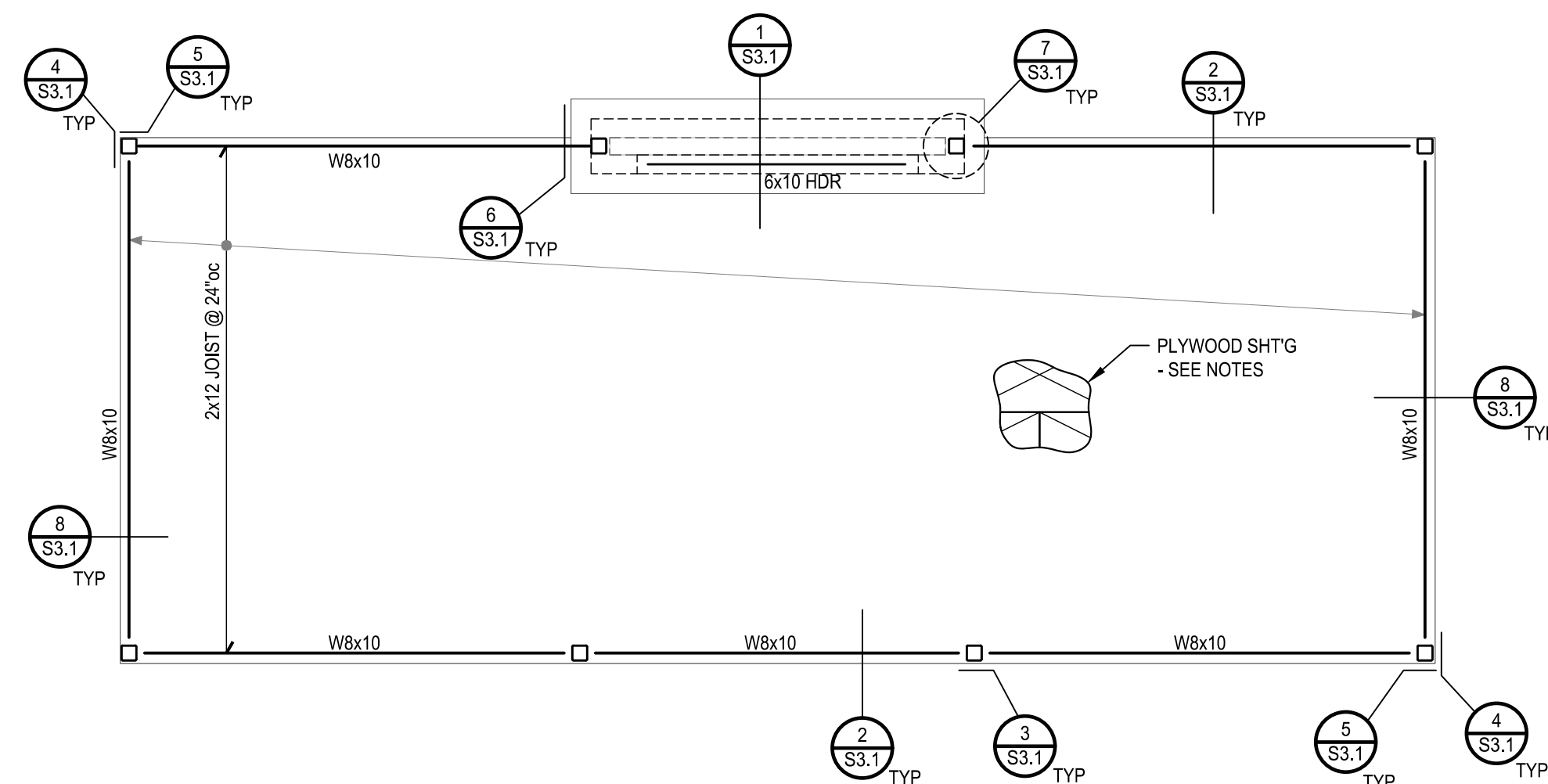




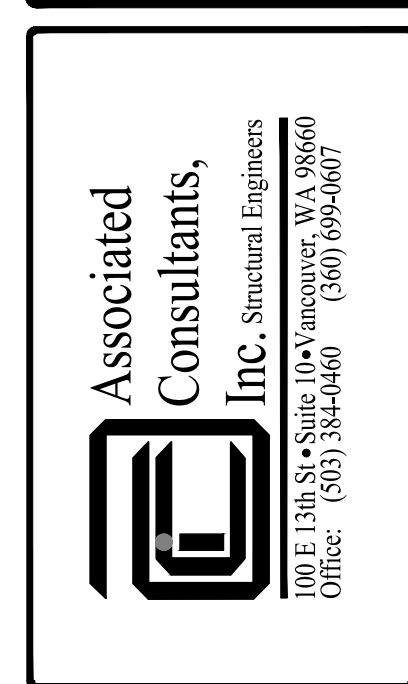
- PLAN NOTES:
- INDICATES WALLS ABOVE THIS LEVEL
  - INDICATES WALL BELOW
  - FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE NOT SHOWN ON THESE DRAWINGS. USE WRITTEN DIMENSIONS ONLY DO NOT SCALE THESE DRAWINGS. DRAWINGS. BRING ALL DISCREPANCIES TO THE ENGINEERS ATTENTION.
  - SEE SHEET S1.1 FOR GENERAL NOTES
  - ALL SCREWS, BOLTS, WASHERS, NUTS, AND NAIL CONNECTORS FOR USE WITH PRESSURE TREATED WOOD SHALL BE HOT DIPPED GALVANIZED.
  - ALL EXPOSED WOOD FRAMING SHOULD BE PRESSURE TREATED.
  - INDICATES SHEARWALL MARK NUMBER (TO EXTEND FROM THIS LEVEL TO FLOOR ABOVE). SEE S3.1.1 FOR SCHEDULES. ALL EXTERIOR WALLS SHALL BE TYPE 1 SHEARWALLS, UNO.
  - INDICATES LENGTH OF SHEARWALL
  - INDICATE BRICK VENEER

TYPICAL CONCRETE SLAB ON GRADE  
REFER TO GEOTECHNICAL REPORT FOR SITE PREPARATION REQUIREMENTS  
4" CONCRETE SLAB ON GRADE w/ #4 @ 18"oc EA WAY AT 2" CLEAR FROM TOP OVER 6" LAYER OF CRUSHED ROCK OVER PREPARED BASE

ROOF DIAPHRAGM - 5/8" CDX PLYWOOD (40 / 20 RATING)	
NAILING SCHEDULE	
BOUNDARIES & BLOCKING	8d COMMON NAILS @ 4"oc
SUPPORTED ENDS	8d COMMON NAILS @ 6"oc
FIELD	8d COMMON NAILS @ 12"oc



PATIO - COVER FRAMING PLAN  
1/4" = 1'-0"



REVISIONS	

PANERA BREAD  
BAKERY CAFE #2168  
799 LANCASTER DRIVE NE, SUITE 110  
SALEM, OR 97301

PROJECT NO.  
2168  
(22-195)  
PLOT DATE: 09/24/2022  
DATE: 09/24/2022  
DRAWN BY: IH  
CHECKED BY: BA

FOUNDATION,  
PATIO FRAMING  
PLANS & DETAILS

S2.1





2020

**PANERA BREAD**  
**BAKERY CAFE #2168**  
799 LANCASTER DRIVE NE, SUITE 110  
SALEM, OR 97301

PROJECT NO.  
2168  
(22-195)

OT DATE : 08/24/2022

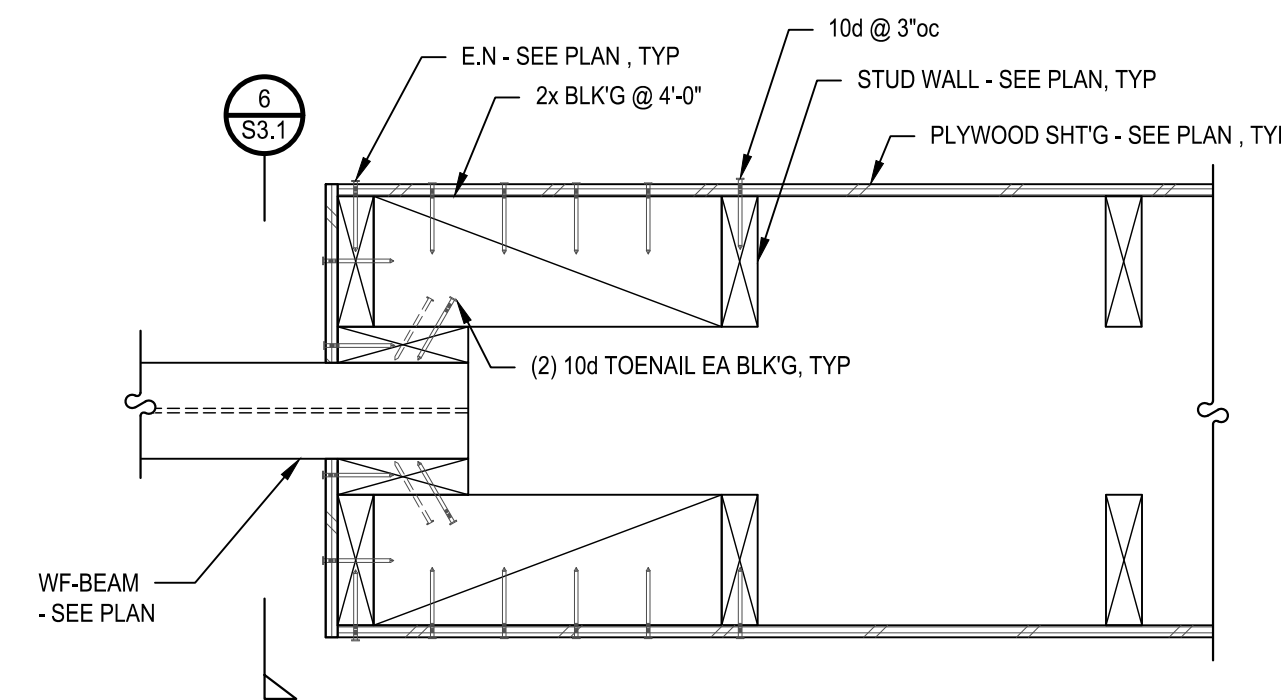
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DRAWN BY : IH

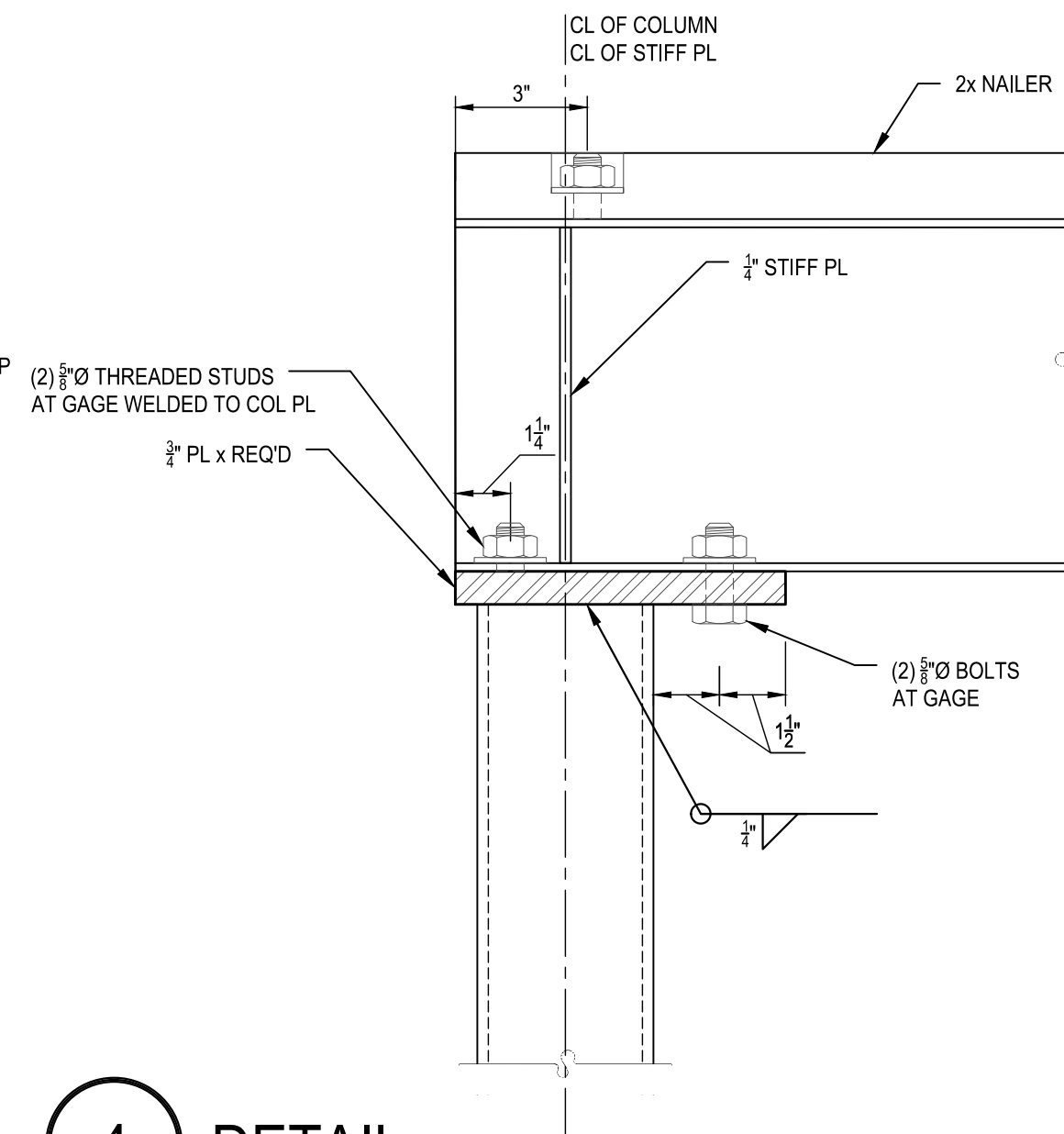
CHECKED BY : BA

## FRAMING DETAILS

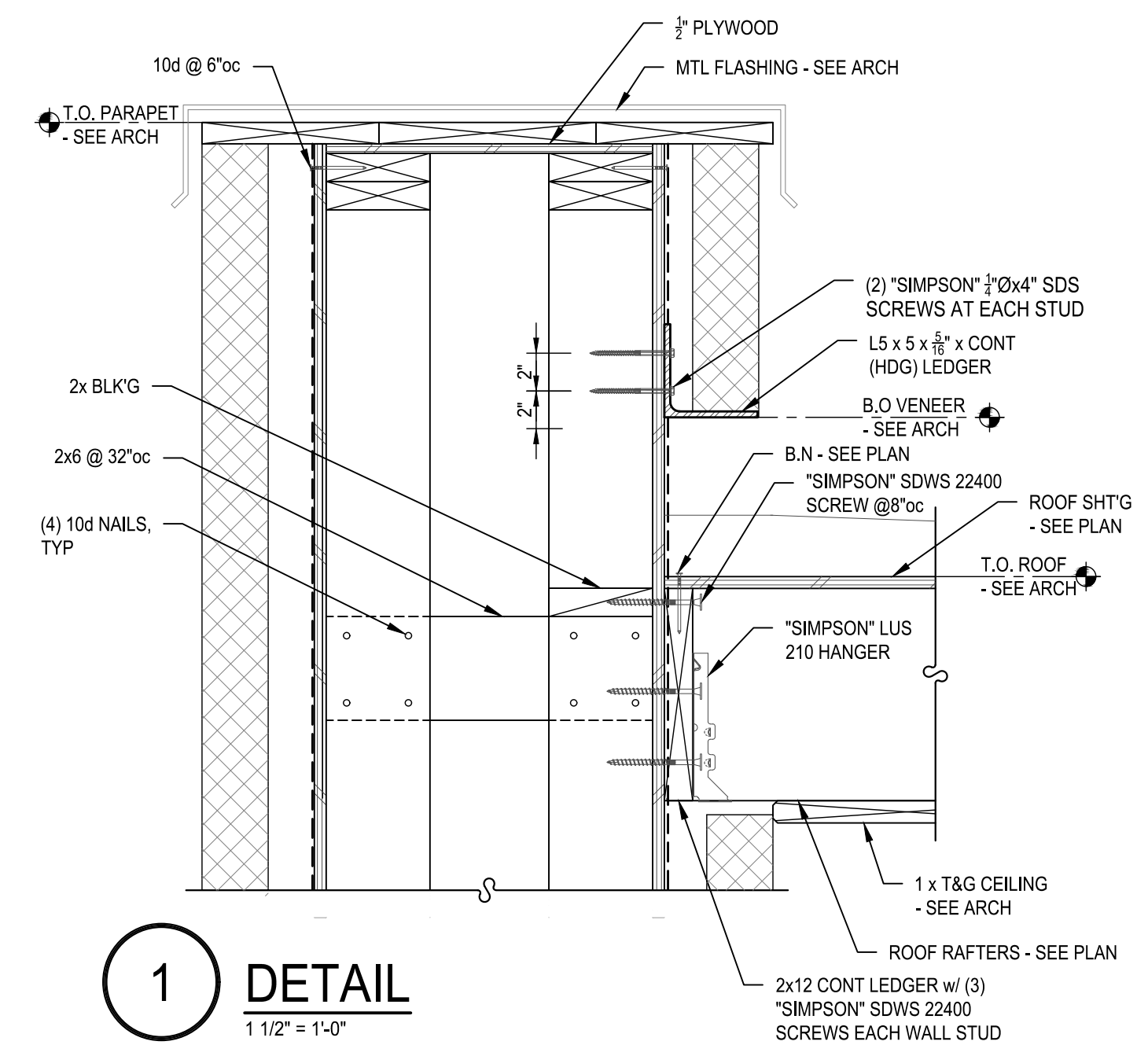
### S3.1



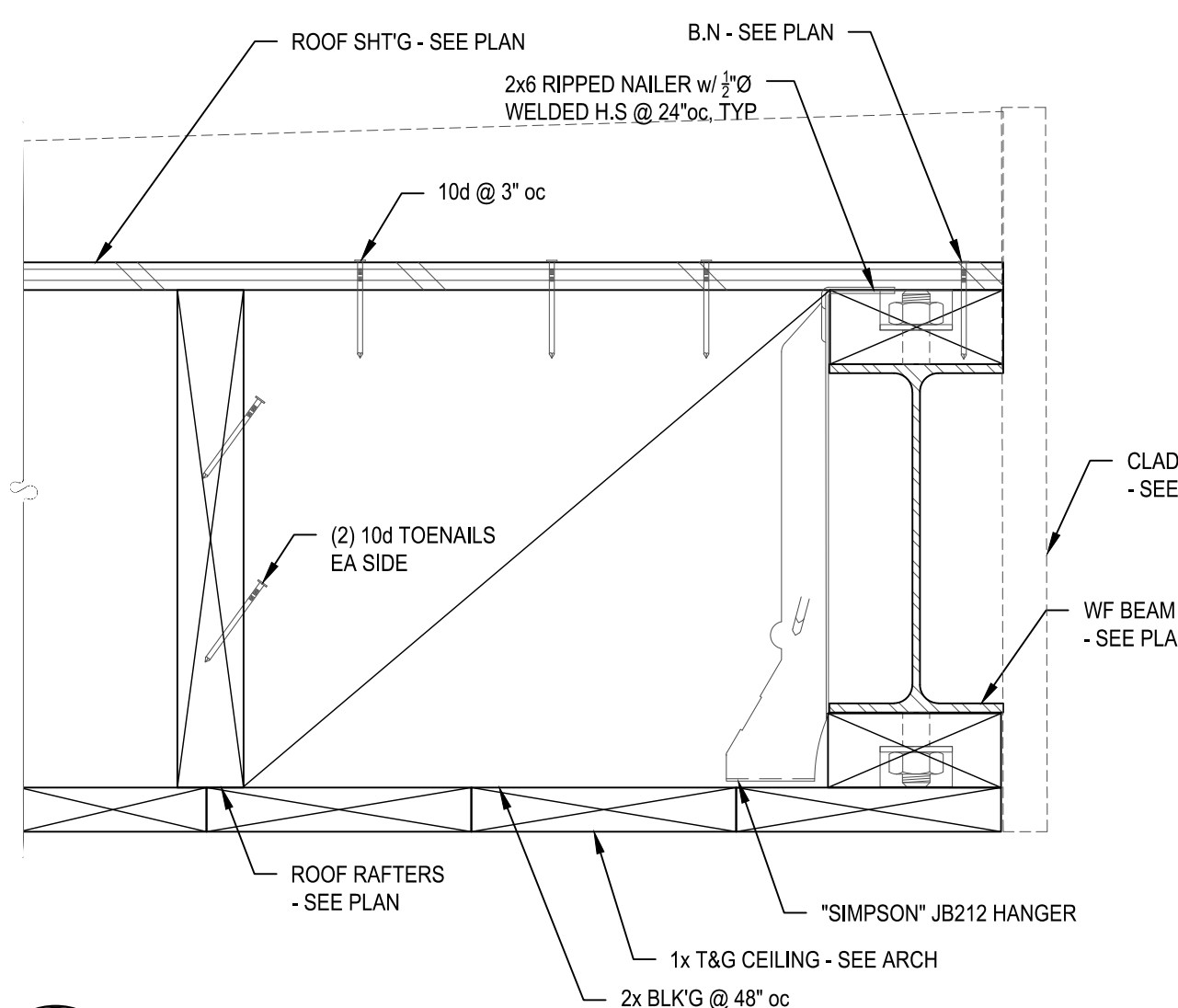
7 DETAIL  
1 1/2" = 1'-0"



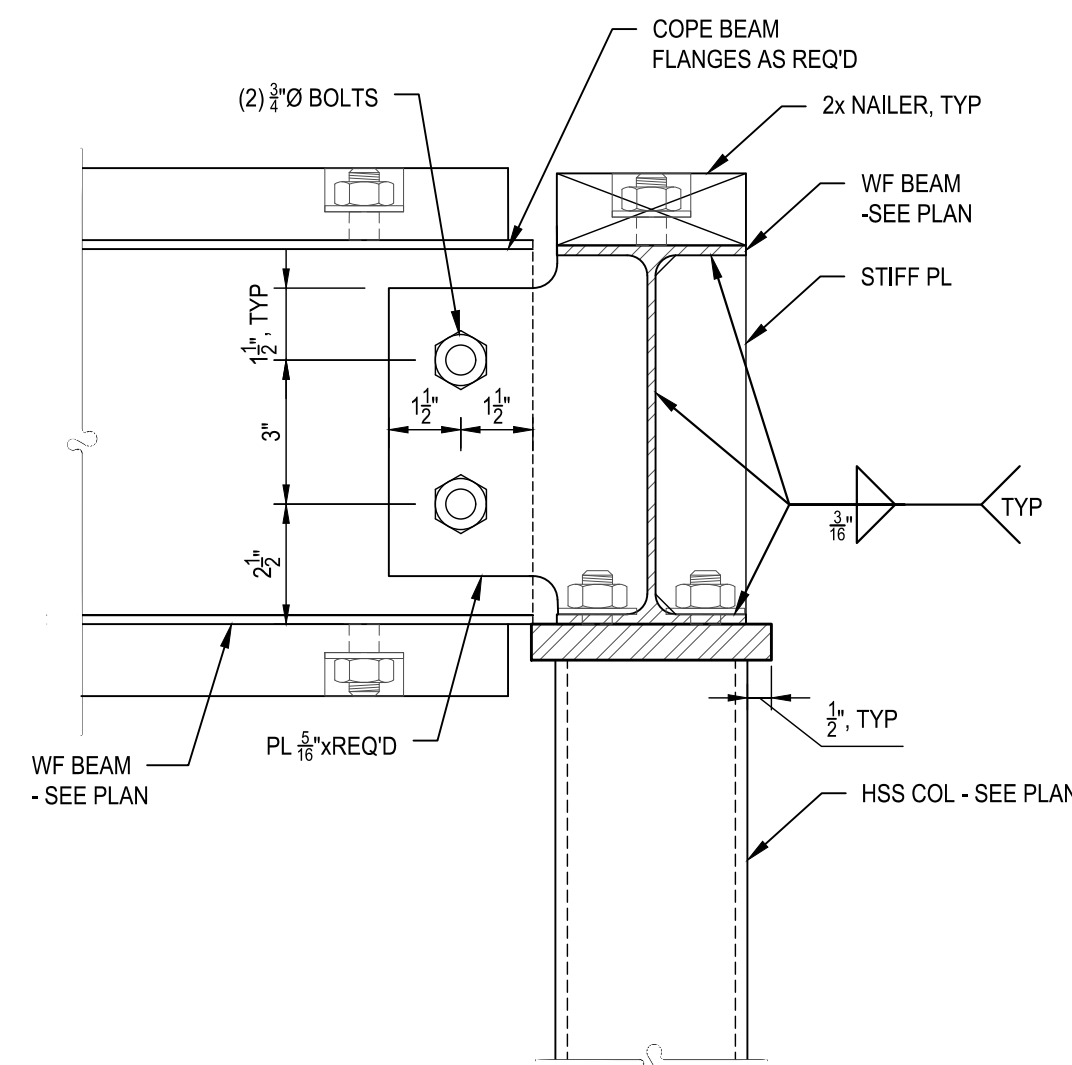
4 DETAIL  
3" = 1'-0"



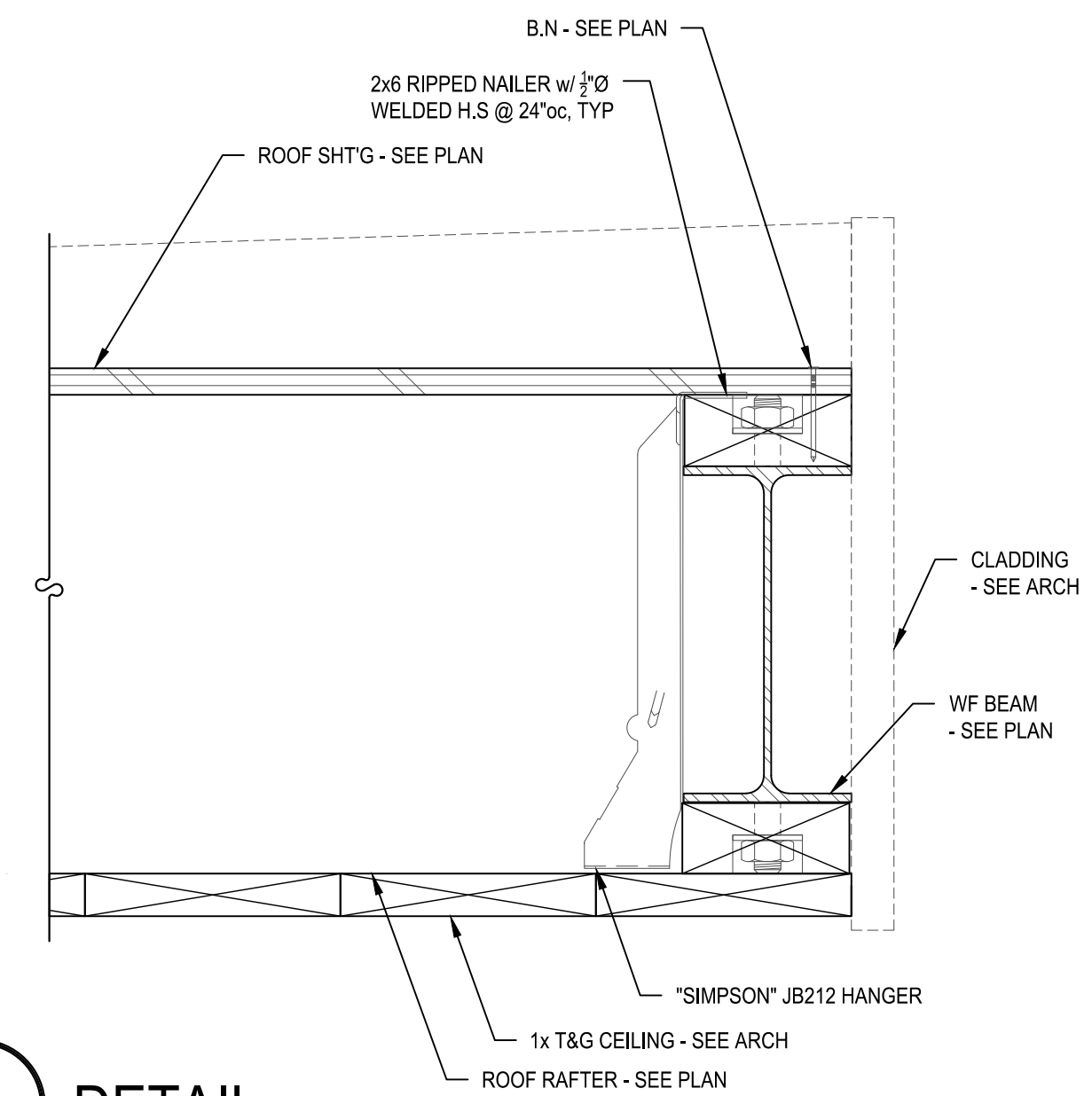
1 DETAIL  
1 1/2" = 1'-0"



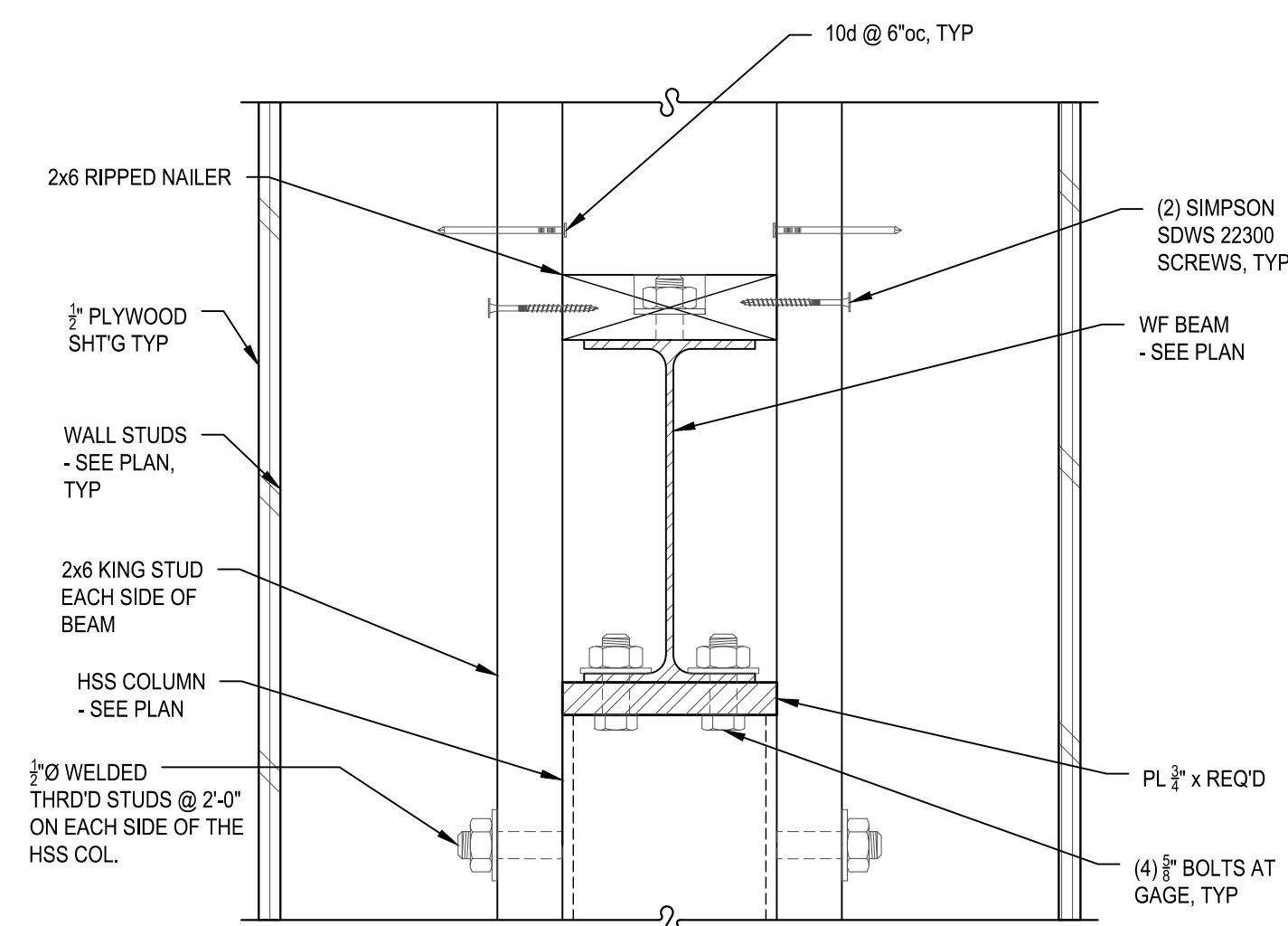
8 DETAIL  
3" = 1'-0"



5 DETAIL  
3" = 1'-0"

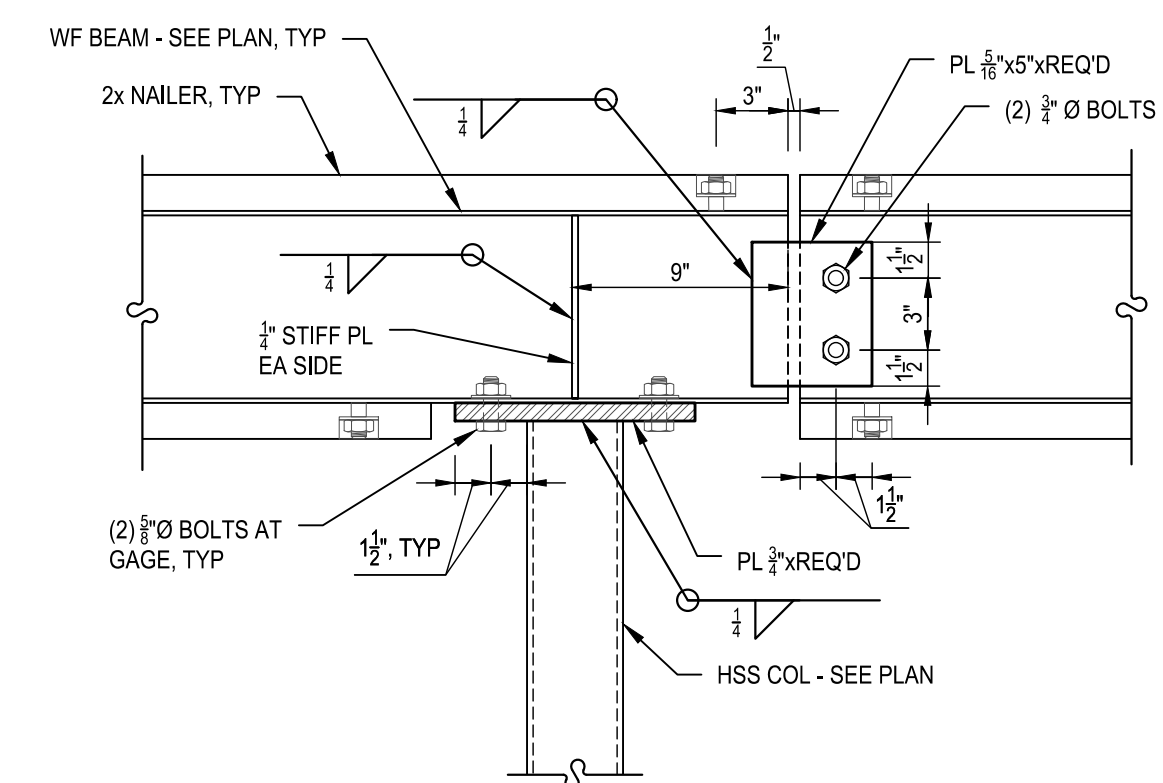


2 DETAIL  
3" = 1'-0"



6 DETAIL  
3" = 1'-0"

**NOTES:**  
1. SEE DETAIL 3/S3.1 "FOR  
ADDITIONAL INFORMATION"



3 DETAIL  
1 1/2" = 1'-0"