

CALIFORNIA DEPARTMENT OF PARKS AND RECREATION  
ACQUISITION AND DEVELOPMENT DIVISION

SOUTH YUBA RIVER STATE PARK

HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION

(National Register of Historic Places: No. 71000168), (California Historic Landmark: No. 390), (Historic American Engineering Record: No. CA-41), (Historic American Building Survey: No. CA-1404)

CSFM # 01-29-11-0032



ACQUISITION & DEVELOPMENT DIVISION  
One Capitol Mall  
Sacramento, CA  
95814-3229



CALIFORNIA STATE FIRE MARSHAL - APPROVED  
Approval of this plan does not authorize or approve any omission of deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.  
Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # 18-025  
Reviewed by: *Shawn B. Smith, CSP-009* Date: *1/14/16*

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: DESIGNER  
DRAWN: STAFF  
CHECKED: SUPERVISOR  
DATE: DECEMBER 2017

REVISIONS table with columns for revision number and date.

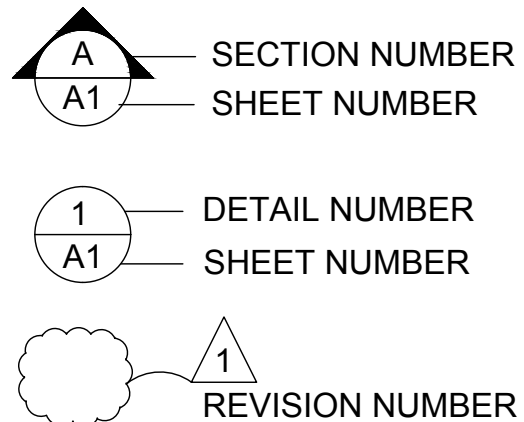
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
COVER SHEET

DRAWING NO. 30419.001

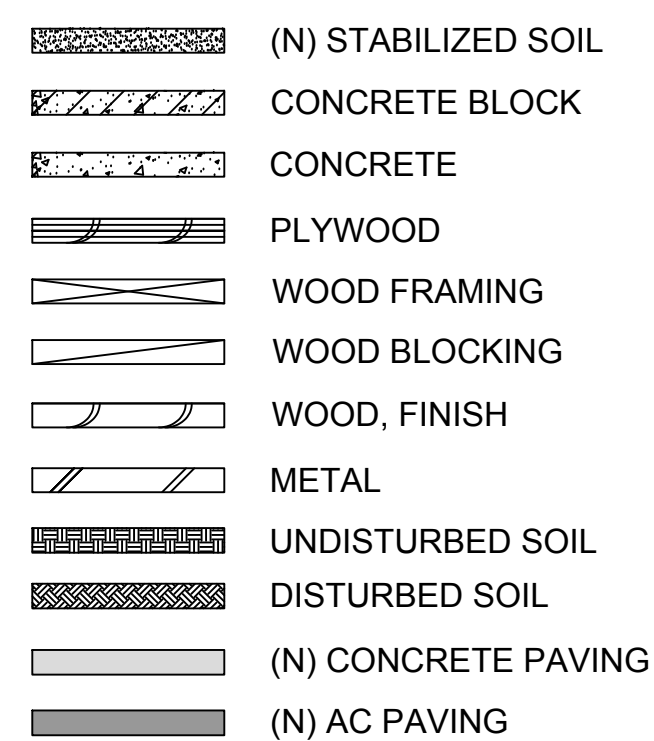
SHEET NO. G1.0

001 OF 030

- 1-ALL MATERIALS SHOWN OR NOTED ON THE PLANS ARE NEW UNLESS CALLED OUT OTHERWISE.
- 2-THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS SHOWN OR DIMENSIONED HERE. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE STATE REPRESENTATIVE FOR RESOLUTION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- 3-ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE FOLLOWING LISTED CODES, AND ALL OTHERS HAVING JURISDICTION OVER THE WORK. TITLE 19, CCR, PUBLIC SAFETY, SFM REGULATIONS. 2016 CA ADMINISTRATIVE CODE TITLE 24, PT 1. 2016 CA BUILDING CODE (CBC) TITLE 24, PT 2. 2016 CA ELECTRICAL CODE (CEC) TITLE 24, PT 3. 2016 CA MECHANICAL CODE (CMC) TITLE 24, PT 4. 2016 CA PLUMBING CODE (CPC) TITLE 24, PT 5. 2016 CA ENERGY CODE CCR TITLE 24, PT 6. 2016 CA GREEN BUILDING STANDARDS TITLE 24, PT 11. 2016 CA REFERENCED STANDARDS TITLE 24, PT 12. 2016 CA BUILDING STANDARDS ADMINISTRATIVE CODE; CCR TITLE 19, PUBLIC SAFETY: DIVISION 1. STATE FIRE MARSHAL; AND CCR TITLE 24 ADA REQUIREMENTS. 2010 ADA STANDARD FOR ACCESSIBLE DESIGN. THE SECRETARY OF THE INTERIOR'S STANDARDS FOR THE TREATMENT OF HISTORIC PROPERTIES.
- 4-CONDUCT ALL WORK IN ACCORDANCE WITH THE LATEST SAFETY RULES AND REGULATIONS OF ALL AUTHORITIES AND AGENCIES HAVING JURISDICTION OVER THE WORK.
- 5-ALL WORK SHALL BE IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. WHERE DETAILED INFORMATION OR CLARIFICATION IS REQUIRED, THE MATTER SHALL BE REFERRED TO THE STATE REPRESENTATIVE FOR WRITTEN RESOLUTION.
- 6-THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS, BUT SHALL RELY ONLY ON THE WRITTEN DIMENSIONS GIVEN. IF A DISCREPANCY OCCURS OR NO DIMENSION IS GIVEN, THE CONTRACTOR SHALL NOTIFY THE STATE REPRESENTATIVE FOR WRITTEN CLARIFICATION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK.
- 7-THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE STATE REPRESENTATIVE PRIOR TO SUBMITTALS
- 8-ALL DIMENSIONS ARE GIVEN FROM THE FACE OF CONCRETE, CONCRETE MASONRY UNITS, STRUCTURAL STEEL, STUD OR CENTERLINE OF PARTITION UNLESS OTHERWISE NOTED



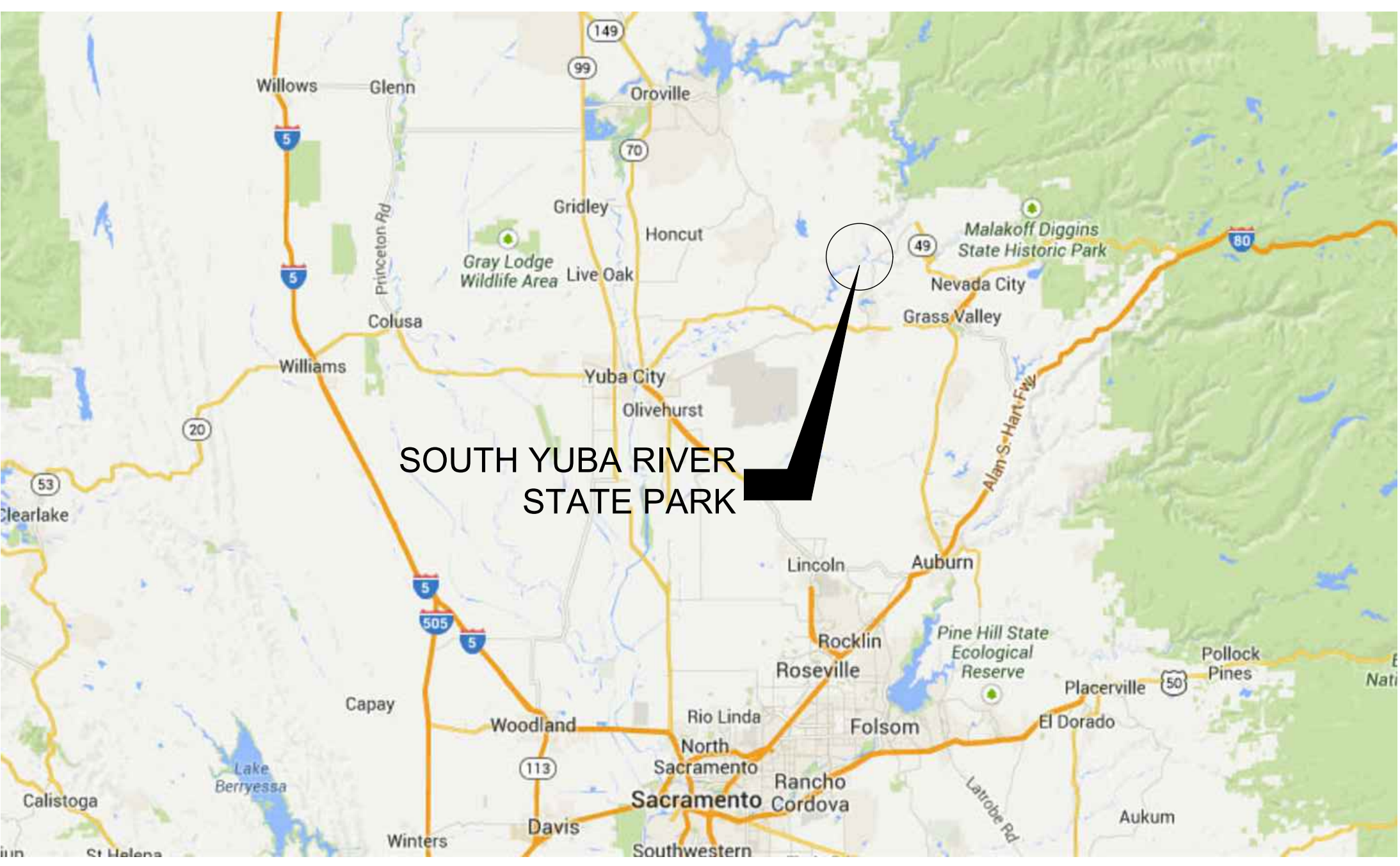
SYMBOLS LEGEND



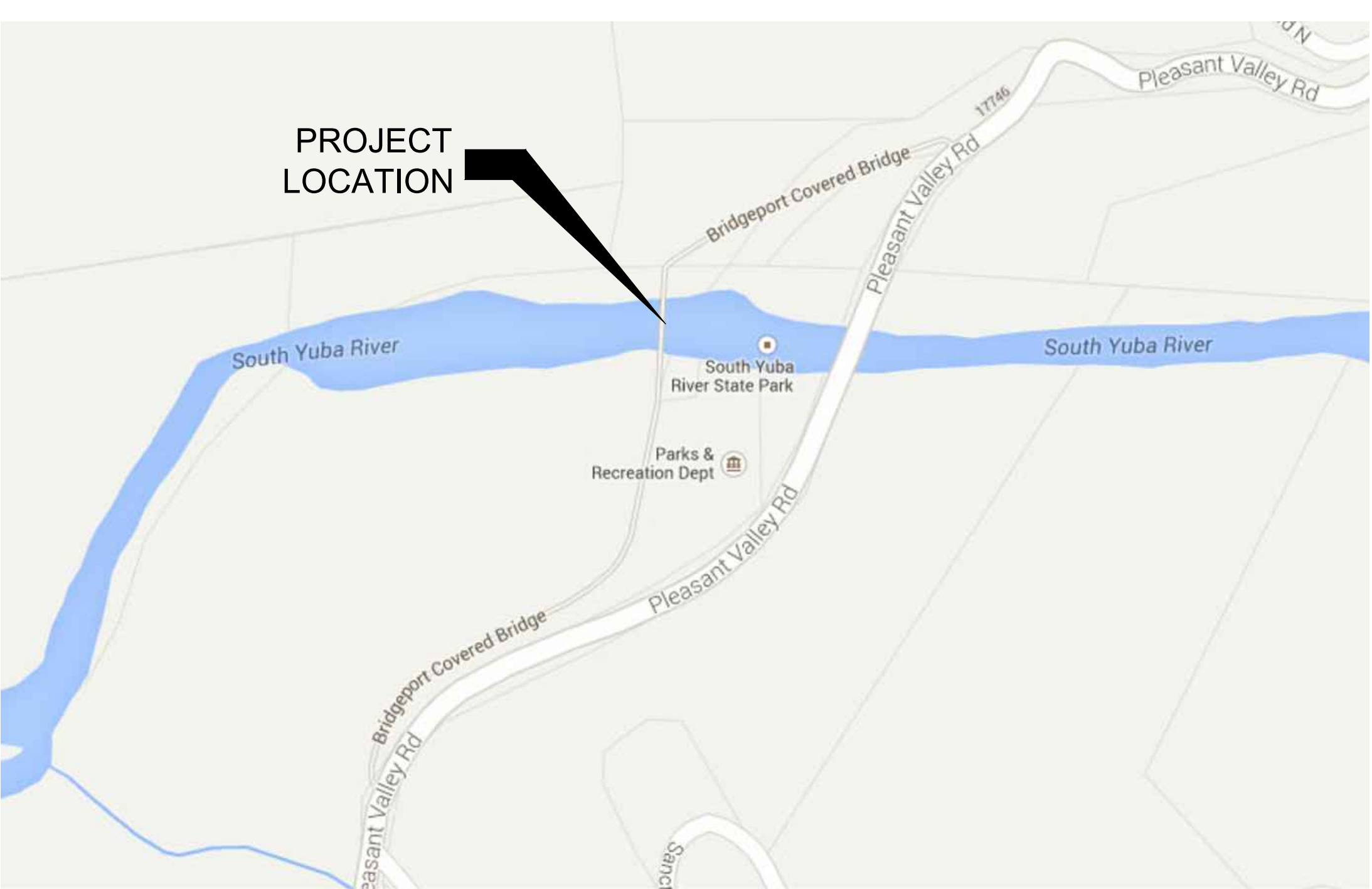
MATERIAL LEGEND

REPAIR, RESTORE AND REHABILITATE, TO ITS ORIGINAL USE THE 208 FEET, SINGLE SPAN, HISTORIC TRUSS/ARCH, AND COVERED BRIDGE. WORK WILL INCLUDE REPLACING THE EXISTING TEMPORARY, NONE-HISTORIC SUPPORTS WITH PERMANENT BRIDGE MEMBERS AND SUPPORTS DESIGNED TO BE COMPATIBLE AND REPRESENTATIVE OF THE ORIGINAL DESIGN AND APPEARANCE.

SCOPE OF WORK



VICINITY MAP



LOCATION MAP

- G1.0 COVER SHEET
- G2.0 ABBREVIATIONS
- S0.01 GENERAL NOTES
- S0.02 GENERAL NOTES
- S0.03 GENERAL NOTES
- S0.04 TYPICAL DETAILS
- S1.01 SHORING PLAN
- S1.02 DEMOLITION PLAN
- S2.01 BRIDGE FOUNDATION PLAN
- S2.02 SOUTH BRIDGE ABUTMENT PLAN
- S2.03 NORTH BRIDGE ABUTMENT PLAN
- S2.04 BRIDGE FLOOR DECK & TOP CORD BRACING PLAN
- S2.05 ROOF FRAMING PLAN
- S3.01 SECTIONS
- S3.02 SECTIONS
- S3.03 SECTIONS
- S4.01 TRUSS ELEVATIONS
- S4.02 TRUSS REPAIR ELEVATIONS
- S5.01 DETAILS
- S5.02 DETAILS
- S5.03 DETAILS
- S5.04 DETAILS
- C1 EXISTING CONDITIONS & DEMO PLAN
- C2 GRADING PLAN
- C3 SITE PLAN
- C4 DETAILS
- A2.0 FLOOR DECK PLAN - ARCHITECTURAL
- A3.0 ROOF PLAN SECTION AND ELEVATIONS
- A4.0 ARCHITECTURAL DETAILS
- A5.0 ARCHITECTURAL DETAILS

SHEET INDEX



For field inspections, contact:  
Deputy [Name] at 916-445-9930  
to schedule appointments

APPROVAL

GENERAL NOTES

- 1. THIS IS A REGISTERED HISTORICAL PLACE AND STRUCTURE.
- 2. OCCUPANCY CLASSIFICATION AND USE U
- 3. BUILDING CONSTRUCTION TYPE V-B
- 4. NUMBER OF STORIES 1
- 5. ACTUAL BUILDING HEIGHT 28'6"
- 6. BUILDING AREA IN SQUARE FEET 2470
- 7. AREA OF PROJECT IN SQUARE FEET NO CHANGE
- 8. ALLOWABLE AREA PER C.B.C. 5500
- 9. FIRE ALARM NO
- TYPE: (MANUAL, AUTOMATIC, ETC)
- 10. OTHER FIRE PROTECTION SYSTEMS, IF ANY HYDRANT
- 11. SMOKE CONTROL SYSTEM NO
- 12. OCCUPANT LOAD (Posted based on struct capacity) 50
- 13. YEAR BUILDING WAS CONSTRUCTED 1862
- 14. IN A HIGH FIRE HAZARD SEVERITY ZONE? YES

BUILDING CODE REVIEW

&	AND	EQ	EQUAL	PI	POINT OF INTERSECTION
(E)	EXISTING	EQUIP	EQUIPMENT	PWD	PLYWOOD
(N)	NEW	EQUIV	EQUIVALENT	POT	POINT OF TANGENCY
@	AT	EVC	END VERTICAL CURVE	PNL	PANEL
A/C	AIR CONDITIONING	EW	EACH WAY	PRV	PRESSURE REDUCING VALVE
AB	AGGREGATE BASE OR ANCHOR BOLTS	(E)	EXISTING	PSF	POUNDS PER SQUARE FOOT
AC	ASPHALTIC CONCRETE	EO	EDGE OF	PSI	POUNDS PER SQUARE INCH
ACI	AMERICAN CONCRETE INSTITUTE	ES	EXISTING SURFACE	PT	POINT
ACP	ASBESTOS CEMENT PIPE	EXP	EXPANSION	PTD	PAPER TOWEL DISPENSER
ACST	ACOUSTIC	FOF	FACE OF FINISH	PTDF	PRESSURE-TREATED DOUGLAS FIR
ADA	AMERICAN DISABILITIES ACT	FA	FLANGE ADAPTER	PWD	PLYWOOD
ADJ	ADJUSTABLE	FB	FLAT BAR	PVC	POLYVINYL CHLORIDE
AFF	ABOVE FINISHED FLOOR	FCA	FLANGED COUPLING ADAPTER	R	RADIUS
AGG	AGGREGATE	FD	FLOOR DRAIN	R/W	RIGHT OF WAY
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	FG	FINISHED GRADE	RCP	REINFORCED CONCRETE PIPE
ALT	ALTERNATE	FH	FIRE HYDRANT	RCV	REMOTE CONTROL VALVE
ALUM	ALUMINUM	FIN	FINISHED	RI	RADIUS OR RISER
APA	AMERICAN PLYWOOD ASSN.	FF	FINISHED FLOOR	RD	ROAD
APPROX	APPROXIMATE	FRP	FIBER REINFORCED PLASTIC	REF	REFERENCE
ARCH	ARCHITECTURAL	FS	FINISH SURFACE	REINF	REINFORCEMENT
ARV	AIR RELEASE VALVE	FL	FLOW LINE	REP	REPRESENTATIVE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS	FL OR FLR	FLOOR	REQ'D	REQUIRED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FM	FORCE MAIN	RLD	ROCK LINED DITCH
ASPH	ASPHALT	FOF	FACE OF FINISH	ROT	ROUTE OF TRAVEL
AV	AIR VALVE	FRMG	FRAMING	RM	ROOM
AWS	AMERICAN WELDING SOCIETY	FT	FOOT OR FEET	RT	RIGHT
BOT	BOTTOM	FTG	FOOTING	RV	RECREATION VEHICLE
B	BOTTOM (REINFORCEMENT DRAWINGS)	GA	GAUGE	RWD	REDWOOD
BAB	BOTTOM ALTERNATE BENT	GAL	GALLON	SCD	SEAT COVER DISPENSER
BC	BOTTOM OF CURB	GALV	GALVANIZED	S	SEWER
BOW	BOTTOM OF WALL	GB	GRAB BAR	S	S. STL OR S.S.
BFP	BACKFLOW PREVENTER	GD	GUTTER DRAIN	S=	SLOPE
BLDG	BUILDING	GFI	GROUND FAULT INTERRUPTER	S4S	SURFACED 4 SIDES
BM	BENCHMARK	GI	GALVANIZED IRON	SBR	SEQUENCING BATCH REACTOR
BO	BLOW OFF VALVE	GPM	GALLONS PER MINUTE	SCD	SEAT COVER DISPENSER
BOT	BOTTOM	GS	GALVANIZED STEEL	SCH	SCHEDULE
BOL	BEGINNING OF LINE	GV	GATE VALVE	SD	SOAP DISPENSER
BOS	BOTTOM OF STEP	GYP. BD	GYPSUM BOARD	SDI	SUBSURFACE DRIP IRRIGATION
BP	BASE PLATE	H.P.	HIGH POINT	SECT.	SECTION
BRG	BEARING	H.R.	HANDRAIL	SF	SQUARE FEET
BV	BALL VALVE	HB	HOSE BIBB	SHR	SHOWER
BVC	BEGIN VERTICAL CURVE			SHT	SHEET
BW	BOTTOM OF WALL	HCB	HOLLOW CONCRETE BOX	SIM.	SIMILAR
C	CENTERLINE	HD	HEAD	SND	SANITARY NAPKIN DISPOSAL
CC	CENTER TO CENTER	HDPE	HIGH DENSITY POLYETHYLENE	SP	SPACES
CEM	CEMENT	HEX	HEXAGON	SPEC'S	SPECIFICATIONS
CFS	CUBIC FEET PER SECOND	HOR	HORIZONTAL	SQ	SQUARE
CG	CAMPGROUND	HR	HOUR	SS	SANITARY SEWER STAINLESS STEEL
CG&S	CURB GUTTER & SIDEWALK	HT	HEIGHT	SSMH	SANITARY SEWER MANHOLE
CHKR	CHECKER	HVAC	HEATING, VENTILATION & AIR CONDITIONING	STA	STATION
CIP	CAST IRON PIPE	HW	HOT WATER	STAG	STAGGER
CJ	CONSTRUCTION JOINT	I.D.	INSIDE FACE	STD	STANDARD
CL OR CLR	CLEAR	IN	INCHES	STIFF.	STIFFENER
CMP	CORRUGATED METAL PIPE	INC	INCLUDING	STL	STEEL
CS	COMFORT STATION	INV	INVERT	STRUCT	STRUCTURE
CMU	CONCRETE MASONRY UNIT	JAN	JANITOR	SV	SOLENOID VALVE
CO	CLEANOUT	JT	JOINT	SYM	SYMMETRICAL
COLS	COLUMNS	L OR LGTH	LENGTH	T	TANGENT
COMB.	COMBINATION	L.P.	LOW POINT	T&B	TOP & BOTTOM
CONC	CONCRETE	LAV	LAVATORY	T&G	TONGUE AND GROOVE
CONST.	CONSTRUCTION	LBS	POUNDS	TDH	TOTAL DYNAMIC HEAD
CONT	CONTINUOUS	LF	LINEAR FEET	T.O.	TOP OF
COSS	CLEAN OUT SANITARY SEWER	LT	LEFT OR LIGHT	TOC	TOP OF CURB
C.P.	CONTROL POINT	LO	LITHOCARPUS DENSIFLOROUS	T.O.M.W.	TOP OF MASONRY WALL
CS	COMFORT STATION	MATL	MATERIAL	TOW	TOP OF WALL
CSK	COUNTERSUNK	MAX	MAXIMUM	TW	TOP OF WALL
CSP	CALIFORNIA STATE PARKS	MBGR	METAL BEAM GUARD RAILING	TOS	TOP OF STEP
CV	CHECK VALVE	MECH	MECHANICAL	TPH	TOILET PAPER HOLDER
CT	CERAMIC TILE	MET	METAL	TRD	TREAD
CW	COLD WATER	MFR	MANUFACTURER	TPZ	TREE PROTECTION ZONE
D OR DIA	DIAMETER	MH	MANHOLE	TYP. (TYP.)	TYPICAL
DBH	DIAMETER AT BREAST HEIGHT	MIN.	MINIMUM	UG	UNDERGROUND
DET	DETAIL	MISC.	MISCELLANEOUS	UNO	UNLESS NOTED OTHERWISE
DF	DRINKING FOUNTAIN	MT	METAL THRESHOLD	VC	VERTICAL CURVE
DG	DECOMPOSED GRANITE	(N)	NEW	VCP	VITRIFIED CLAY PIPE
DI	DROP INLET, DUCTILE IRON	N	NORTH	VERT	VERTICAL
DIAG	DIAGONAL	N/A	NOT APPLICABLE	VPI	VERTICAL POINT OF INTERSECTION
DIM	DIMENSION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	VTR	VENT THROUGH ROOF
DIST	DISTRIBUTION	NF	NEAR FACE	W	WATER
DN	DOWN	NIC	NOT IN CONTRACT	W/	WITH
DPR	DEPARTMENT OF PARKS AND RECREATION	NO.	NUMBER	W/H	WATER HEATER
DR	DOOR	NTS	NOT TO SCALE	W/O	WITHOUT
DO	DRAIN OUTLET	OC	ON CENTER	WD	WOOD
DWG	DRAWING	OD	OUTSIDE DIAMETER	WL	WATER LINE
DWR	DEPARTMENT OF WATER RESOURCES	OF	OUTSIDE FACE	WP	WORKING POINT
EA	EACH	OG	ORIGINAL GROUND OPPOSITE HAND	WR	WASTE RECEIPTICLE
EC	END CURVE	O-O	OUT - OUT	WS	WATER SURFACE OR WATER STOP
EF	EACH FACE	OPG	OPENING	WSA	WATER SERVICE ASSEMBLY
EFEW	EACH FACE EACH WAY	OPP	OPPOSITE	WTP	WATER TREATMENT PLANT
EJ	EXPANSION JOINT	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION	WTR	WATER
EL	ELEVATION	PA	PLANTING AREA	WV	WATER VALVE
ELECT	ELECTRICAL	P/L	PROPERTY LINE	WWF	WELDED WIRE FABRIC
ELEV	ELEVATION	PC	POINT OF CURVE	WWTP	WASTEWATER TREATMENT PLANT
EOL	END OF LINE	PCC	PORTLAND CEMENT CONC.		
EP	EDGE OF PAVEMENT				
EPB	ELECTRIC PULL BOX				



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Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

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ACCESSIBILITY SECTION  
CERTIFICATION # 18-015  
Reviewed by \_\_\_\_\_ Date \_\_\_\_\_  
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DESIGNED: DESIGNER  
DRAWN: STAFF  
CHECKED: SUPERVISOR  
DATE: DECEMBER 2017

REVISIONS	
NO.	DATE

OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIREFIGHTING ONLY  
Reviewed by David Nye, DSFM  
JAN 09 2018

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SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
ABBREVIATIONS

DRAWING NO.  
30419.002

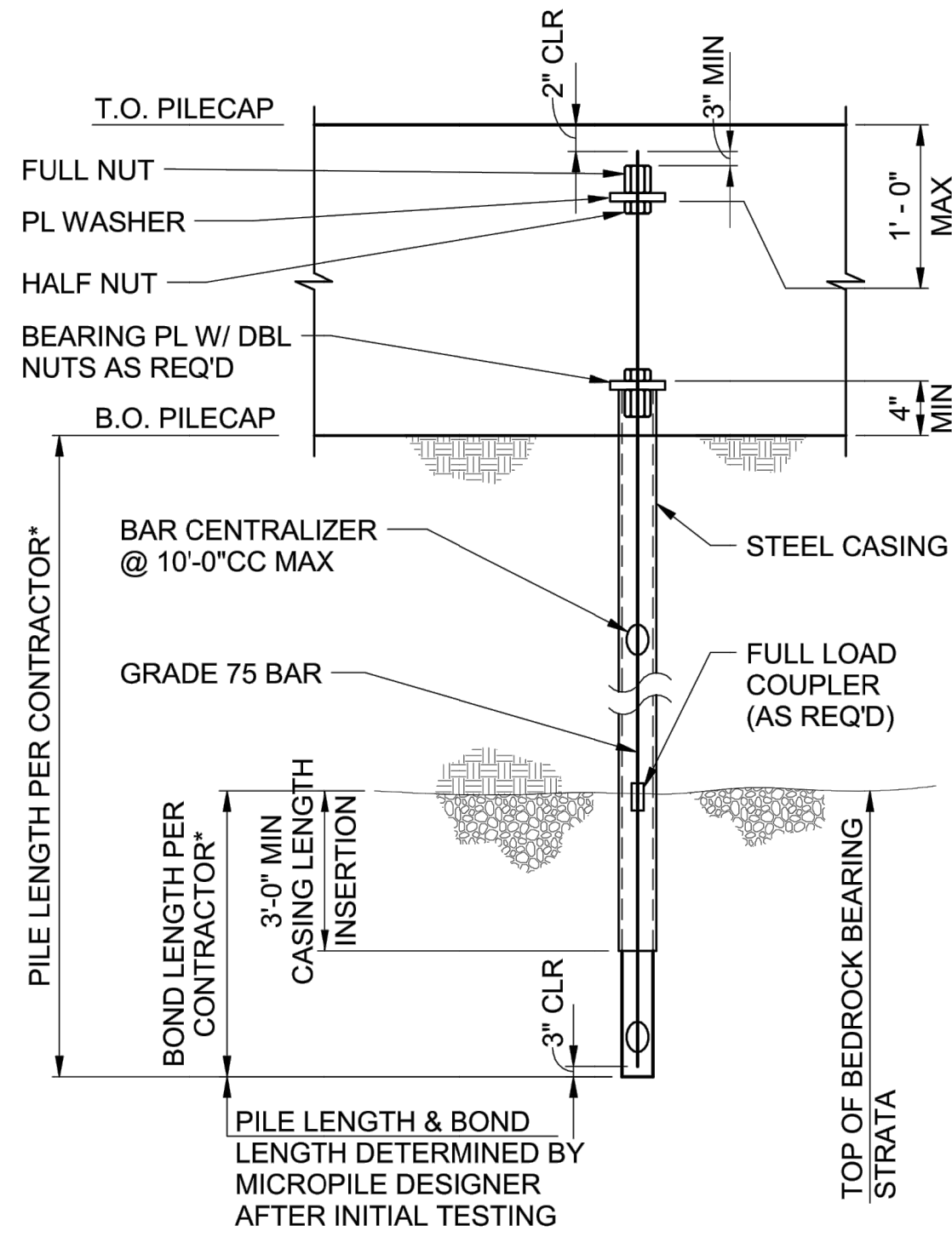
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G2.0  
002 OF 030





# GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE



\* ESTIMATED BOND LENGTH IS 6.25 FEET BASED ON ASSUMED ULTIMATE BOND STRESS PROVIDED IN SOILS REPORT. ACTUAL BOND LENGTH TO BE DETERMINED BY CONTRACTOR AND VERIFIED BY LOAD TESTING. ACTUAL BOND LENGTH SHALL NOT BE LESS THAN 5 FEET.

**NOTES:**

1. DESIGN LOAD CAPACITY:
 

SIZE	D	D+H+L	D+H+E
7"Ø	80K	165K	-55K

LOADS GIVEN IN KIPS, 1K= 1000LBS. POSITIVE VALUES ARE DOWNWARD, NEGATIVE VALUES ARE UPLIFT. MINIMUM FACTOR OF SAFETY=2.0 (D+L) SEE GEOTECHNICAL REPORT FOR ESTIMATED ULTIMATE BOND STRESS

D = DEAD LOAD  
L = LIVE LOAD  
H = SOIL LOAD
2. MATERIAL SPECIFICATIONS:
  - A) GROUT - A NEAT MIX OF PORTLAND CEMENT (TYPE I/II) CONFORMING TO ASTM C150 WITH A WATER CEMENT RATIO OF APPROXIMATELY 0.35. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE GROUT SHALL BE 5,000 PSI.
  - B) REINFORCING BAR - THE REINFORCING BAR SHALL BE GRADE 75 DWIDAG THREADBAR (OR EQUIVALENT) CONFORMING TO ASTM A-615. LENGTH OF COUPLED BAR SECTIONS SHALL BE DETERMINED BASED ON THE OVERHEAD CLEARANCE AVAILABLE AT EACH PILE LOCATION.
  - C) CASING - THE STEEL CASING SHALL BE 0.5" MINIMUM WALL THICKNESS - 80 KSI YIELD STRENGTH MANUFACTURED TO API N-80 SPECIFICATIONS.
  - D) PLATE - STEEL PLATE SHALL CONFORM TO ASTM A572 GRADE 50.
3. RECOMMENDED MICROPILE INSTALLATION PROCEDURE:
  - A) ADVANCE OUTSIDE DIAMETER CASING TO FULL PILE DEPTH UTILIZING ROTARY DRILLING TECHNIQUES.
  - B) PLACE REINFORCING TREAD BAR WITH CENTRALIZERS.
  - C) TREMIE CASING FULL WITH NEAT CEMENT GROUT.
  - D) EXTRACT CASING OUT OF THE PILE BOND LENGTH WHILE PLACING ADDITIONAL GROUT. PRESSURE SHALL BE APPLIED TO THE BOND LENGTH GROUT A MINIMUM OF 2 TIMES DURING CASING EXTRACTION TO A MINIMUM PRESSURE OF 75 PSI. THIS PRESSURE MAY BE APPLIED THROUGH THE DRILL.
  - E) UPON COMPLETION OF PRESSURE GROUTING, REINSERT THE CASING 3' TO 4' MINIMUM INTO THE TOP OF THE BOND LENGTH AS SHOWN ON THE PILE DESIGN DETAILS. APPLY PRESSURE TO THE GROUT ONE FINAL TIME AFTER CASING REINSERTION.
  - F) THE TOP PIECE OF CASING SHALL BE PREFABRICATED WITH THE CONNECTION SHEAR RINGS WHERE OCCURS. REMOVE UNSOUND GROUT FROM THE TOP OF THE PILE CASING AND PLACE THE BEARING PLATE AS REQUIRED BY THE CONNECTION DETAILS. CAST PILE TOP INTO THE FOOTING CONCRETE.
  - G) THE QUALITY OF THE GROUT SHALL BE MONITORED BY COLLECTING GROUT CUBES EACH DAY FOR LATER COMPRESSION TESTING.
  - H) CONSISTENCY OF PILE INSTALLATION SHALL BE MONITORED AND RECORDED IN THE MICROPILE INSTALLATION LOG FORM. MONITORED AND RECORDED DATA SHALL INCLUDE TOTAL PILE DEPTH, GROUT PRESSURES AND QUANTITIES, SOILS ENCOUNTERED DURING INSTALLATION, AND ANY OBSTRUCTIONS OR IRREGULARITIES.
  - I) CONSTRUCTION TOLERANCE ON PLACEMENT OF PILES IS 3 INCHES HORIZONTALLY IN ANY DIRECTION AND A VERTICAL ALIGNMENT OF NO MORE THAN 2% OUT OF PLUMB.
4. DESIGN OF PILES TO CONFORM WITH SOILS REPORT # S9030-05-41 BY GEOCON CONSULTANTS DATED MAY 2015.
5. INSTALLATION TO BE PERFORMED BY A QUALIFIED CONTRACTOR WITH A MINIMUM OF 5 YEARS OF EXPERIENCE WITH THIS TYPE OF FOUNDATION.
6. INSTALLATION RECORDS AND INITIAL TESTING TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. LOAD TESTS SHALL BE COMPLETED ON PRE-PRODUCTION AND PRODUCTION PILES AS REQUIRED IN THE SOILS REPORT AND CBC 1810.3.3.
7. MINIMUM PILE SPACING 3'-0" CENTER TO CENTER.
8. PROVIDE PILE DESIGN CALCULATIONS FOR APPROVAL SIGNED BY CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

**MICRO-PILE NOTES**

222SD001-12



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Reviewed by *AFB* Date *1/10/18*

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DESIGNED: \_\_\_\_\_  
DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: \_\_\_\_\_ Issue Date \_\_\_\_\_

REVISIONS	
DATE	

OFFICE OF THE STATE FIRE MARSHAL  
APPROVED PURF AND PAFC ONLY  
Reviewed by *David Nye, DSFM*

JAN 09 2018

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HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
GENERAL NOTES



Buehler & Buehler  
Structural Engineers, Inc.  
600 Q Street, Suite 200, Sacramento, CA 95811  
tel 916.443.0303 fax 916.443.0313  
Sacramento - Florence - San Francisco

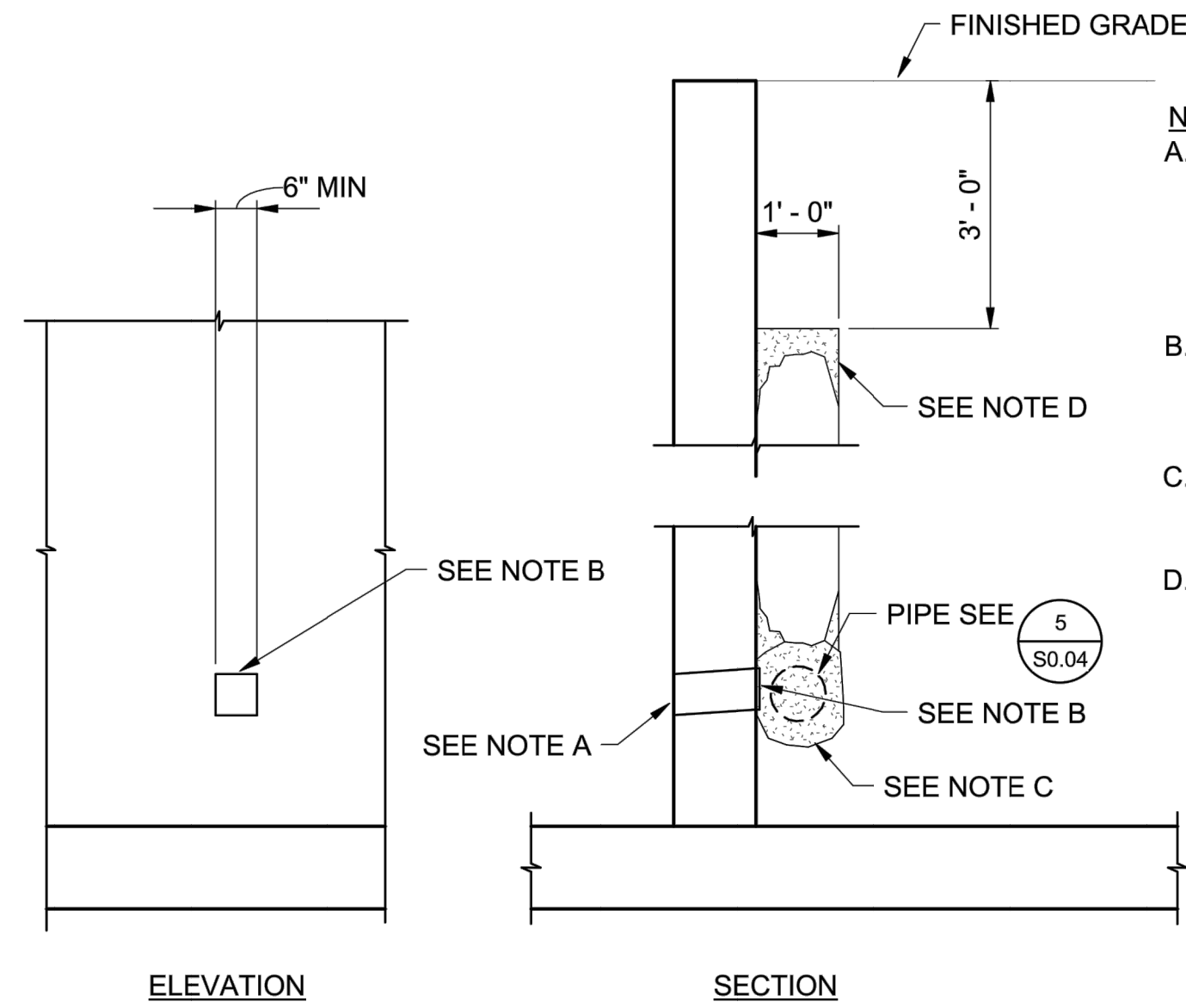
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30419.005

SHEET NO.  
S0.03

005 OF 030

# TYPICAL DETAILS

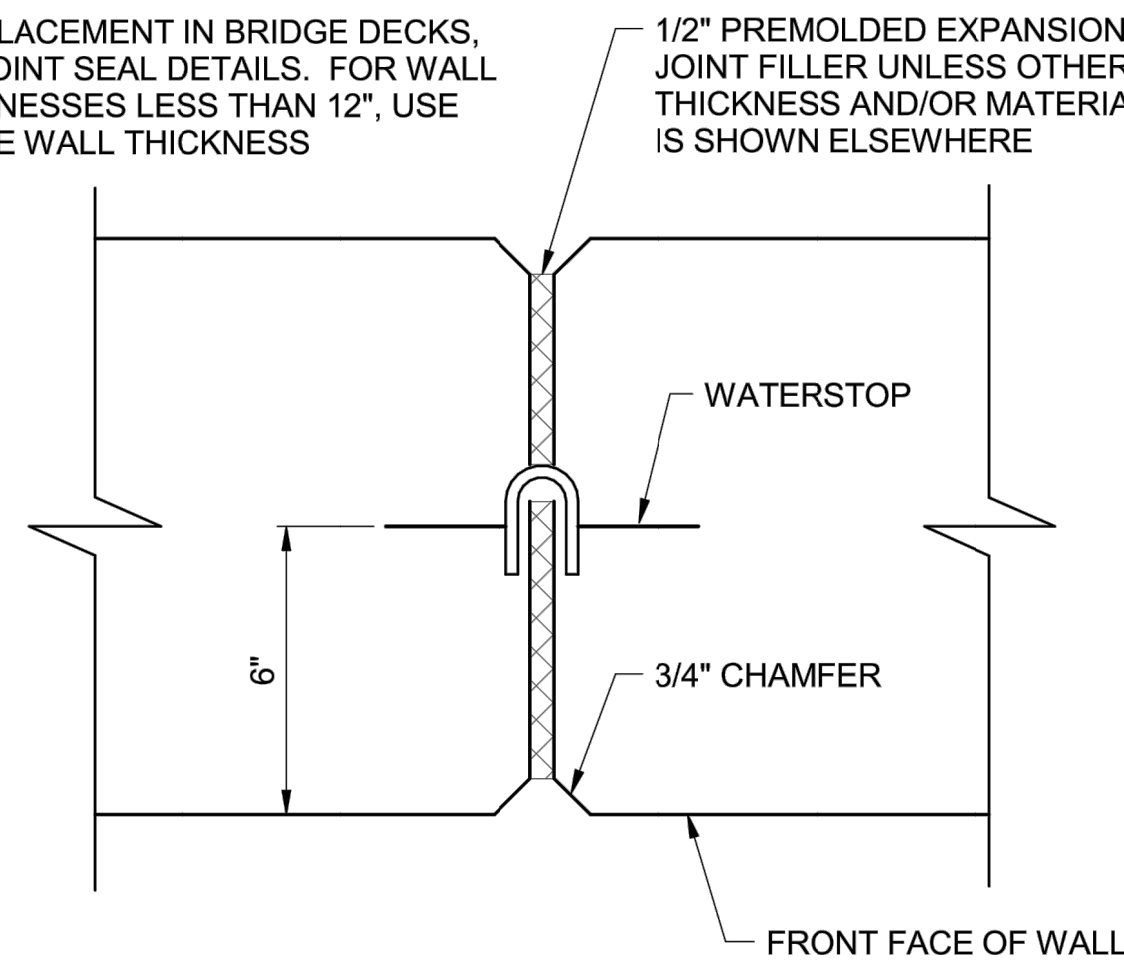
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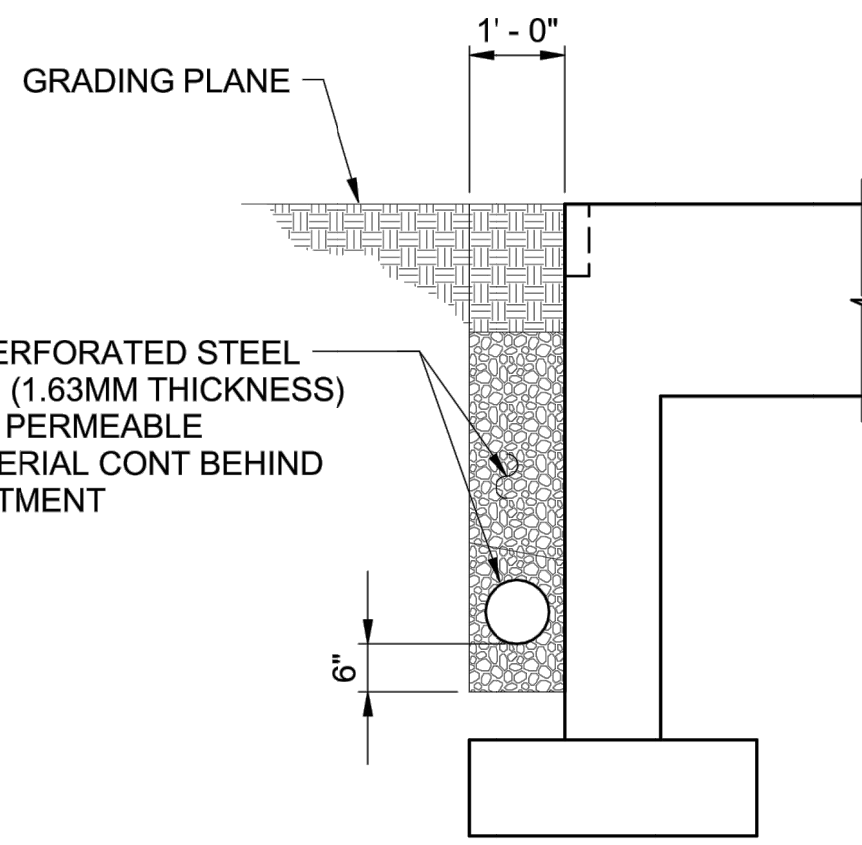
- NOTES:**
- A. 2"Ø DRAINS @ 48"CC MAX, FOR WALLS ADJACENT TO SIDEWALKS OR CURBS. PROVIDE 4" PLASTIC PIPE UNDER THE SIDEWALK TO DISCHARGE THROUGH CURB FACE. EXPOSED WALL DRAINS SHALL BE LOCATED 3"± ABOVE FINISHED GRADE.
  - B. 6" MIN SQUARE ALUMINUM OR GALVANIZED STEEL WIRE 1/4" MESH HARDWARE CLOTH (22GA MIN WIRE DIAMETER). ANCHOR FIRMLY TO BACKFACE.
  - C. 1 CUBIC FOOT PERVIOUS BACKFILL MATERIAL IN A NONWOVEN FILTER FABRIC, SECURELY TIED.
  - D. PERVIOUS BACKFILL MATERIAL CONTINUOUS BEHIND RETAINING WALL OR ABUTMENT.

**1** **S0.04** **WEEP HOLE AND PERVIOUS BACKFILL**

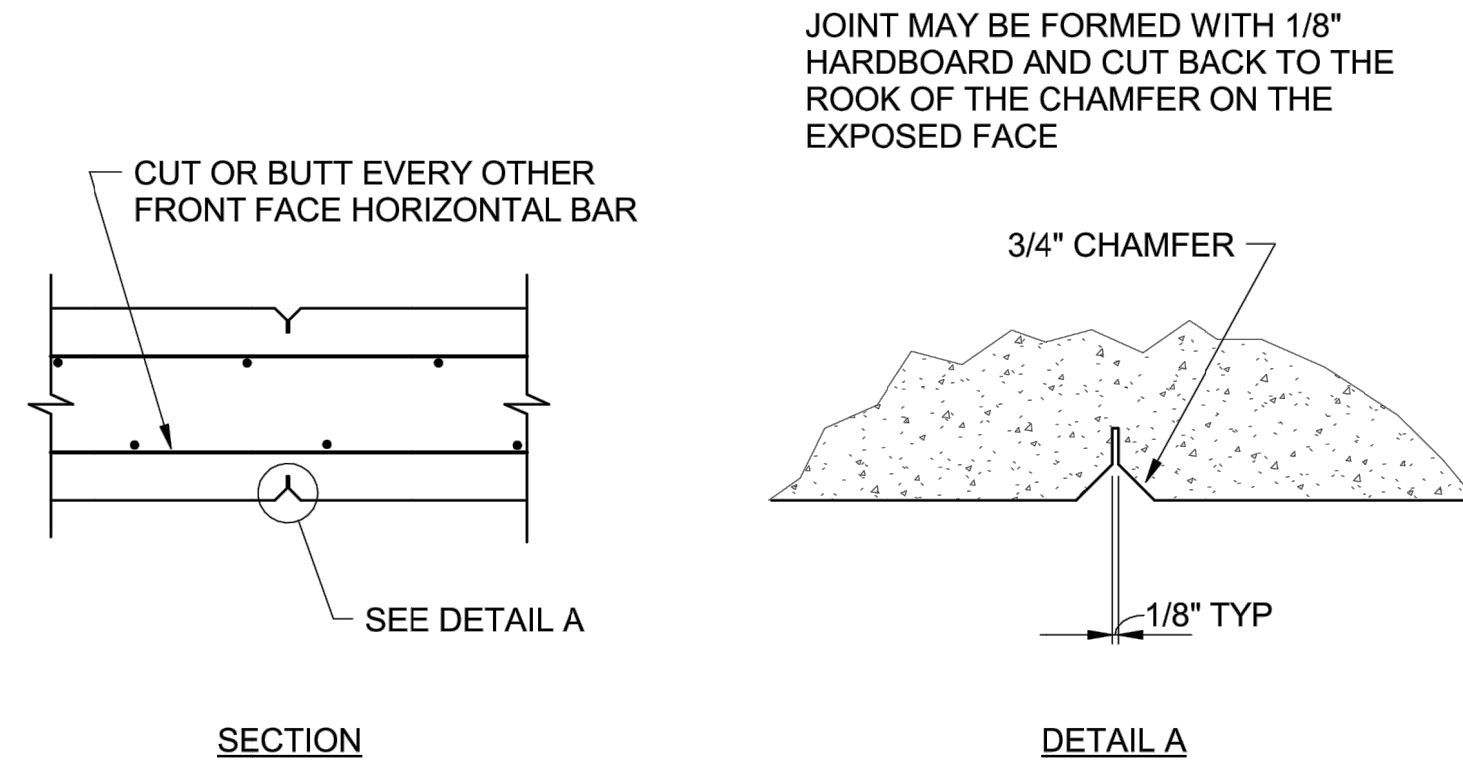
**NOTE:**  
FOR PLACEMENT IN BRIDGE DECKS, SEE JOINT SEAL DETAILS. FOR WALL THICKNESSES LESS THAN 12", USE 1/2 THE WALL THICKNESS



**4** **S0.04** **WALL EXPANSION JOINT**

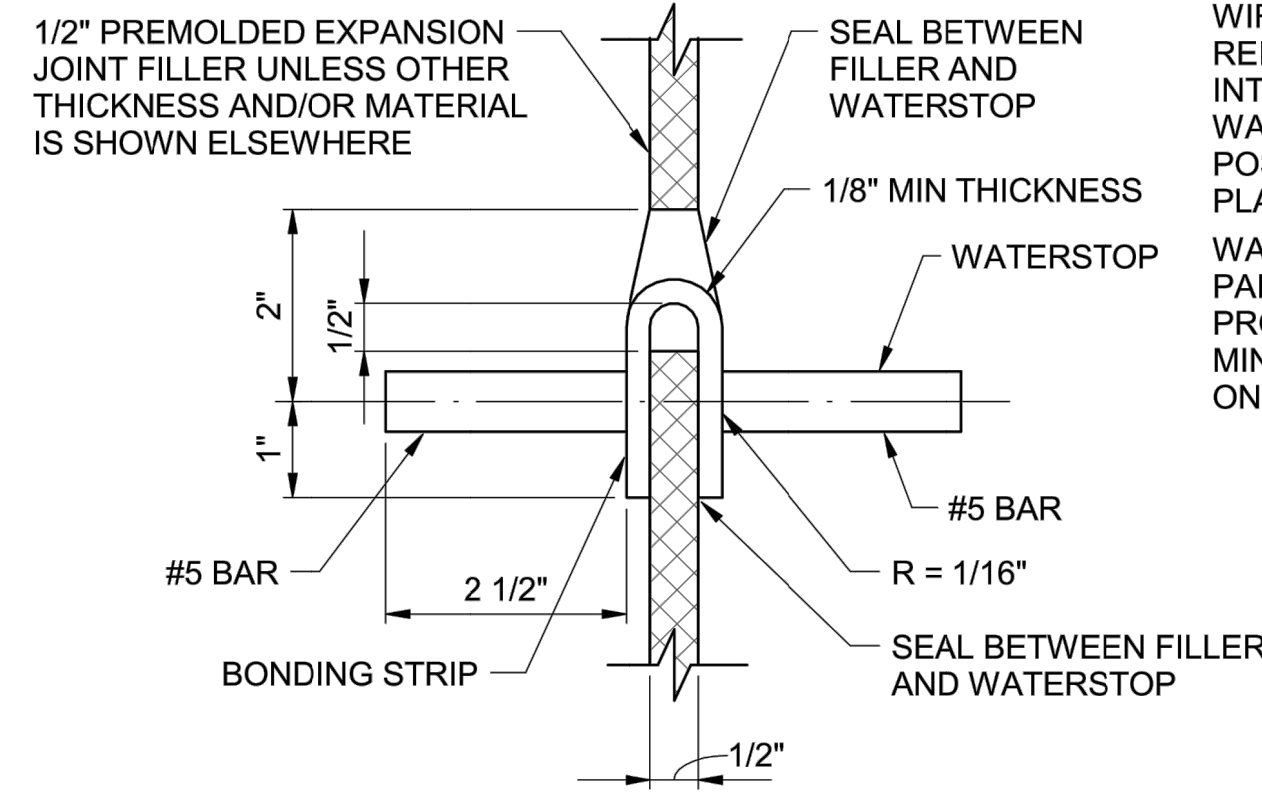


**5** **S0.04** **DRAIN PIPE AND PERMEABLE MATERIAL**



**2** **S0.04** **WEAKENED PLANES**

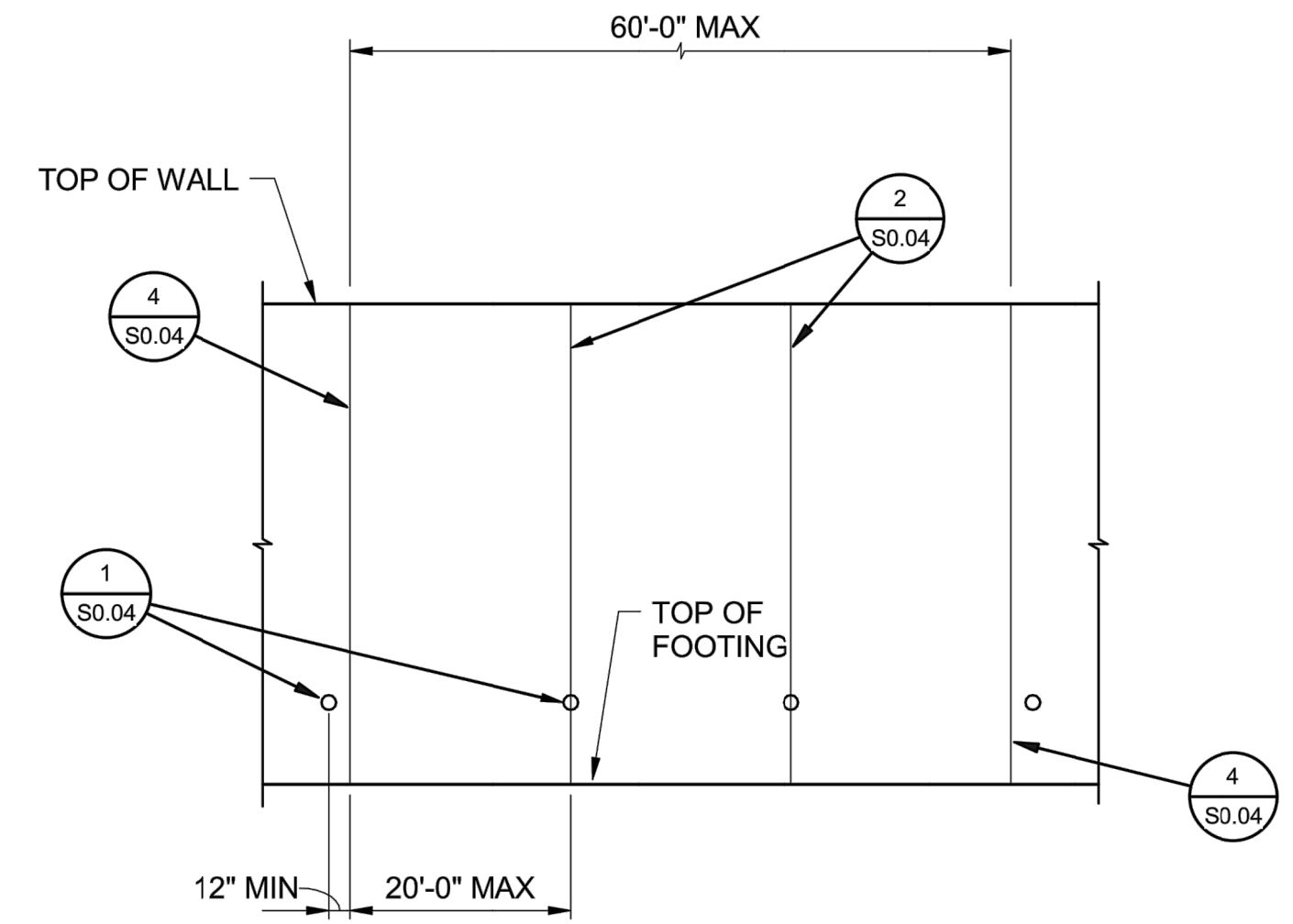
**NOTES:**  
HOLES WILL BE PERMITTED IN THE OUTER 1/2" OF THE WEB FOR WIRE, RINGS, ETC. TIE WEB TO #5 REINFORCING BARS @ 16"CC MAX INTERVALS TO SUPPORT THE WATERSTOP IN PROPER POSITION DURING CONCRETE PLACEMENT.  
WATERSTOP TO HAVE 5 OR MORE PAIRS OF RAISED RIBS TO PROVIDE 0.10 SQUARE INCHES MINIMUM CROSS-SECTION AREA ON EA HALF OF THE WATERSTOP.



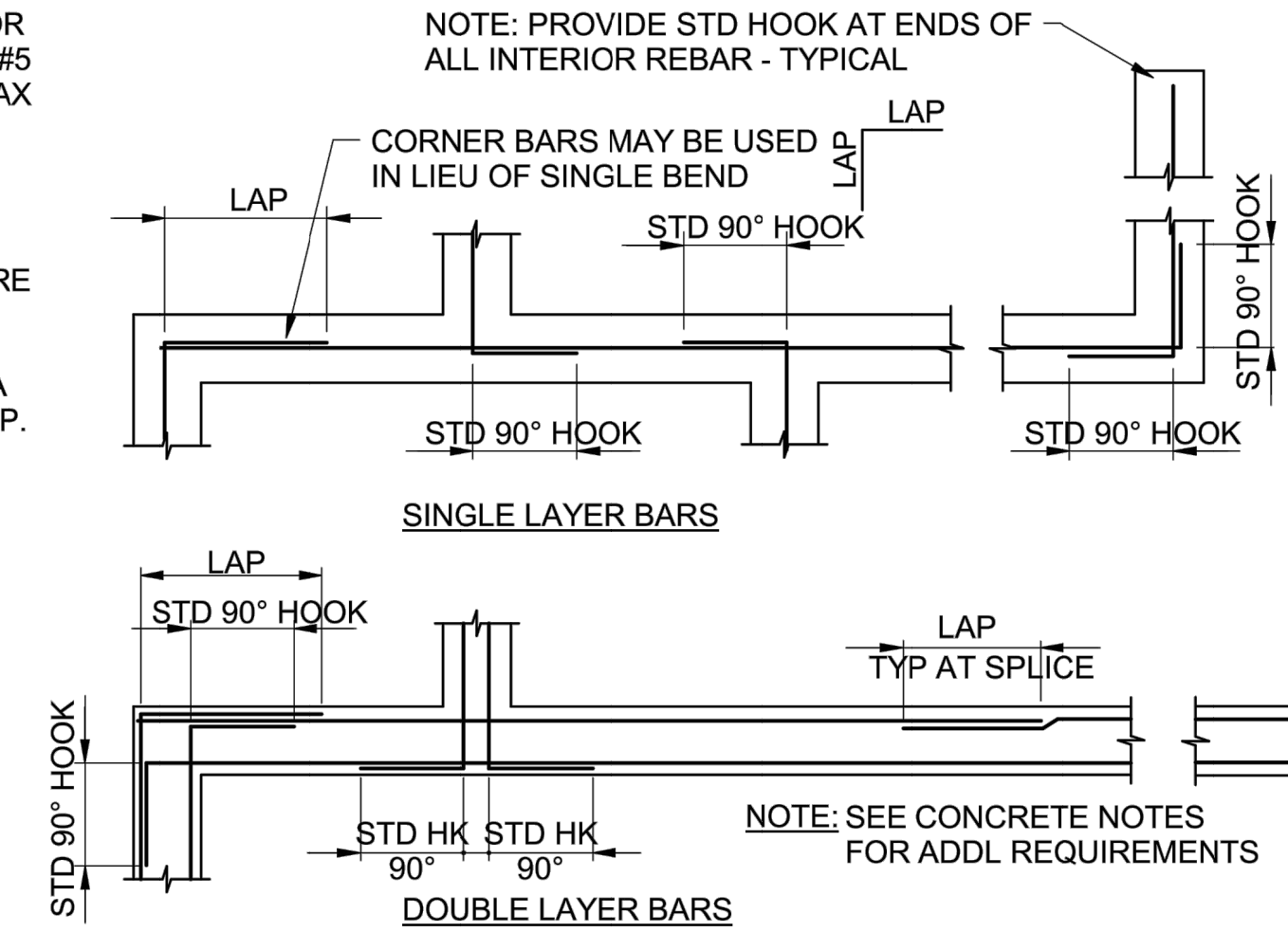
**6** **S0.04** **WATERSTOP**

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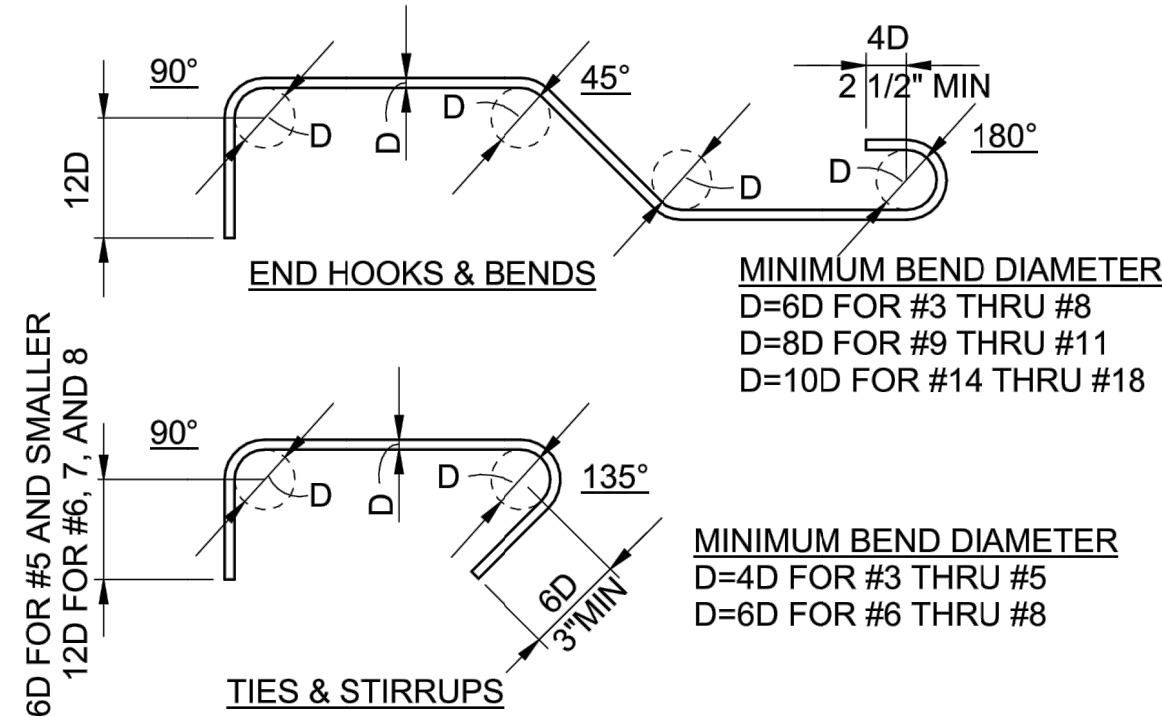
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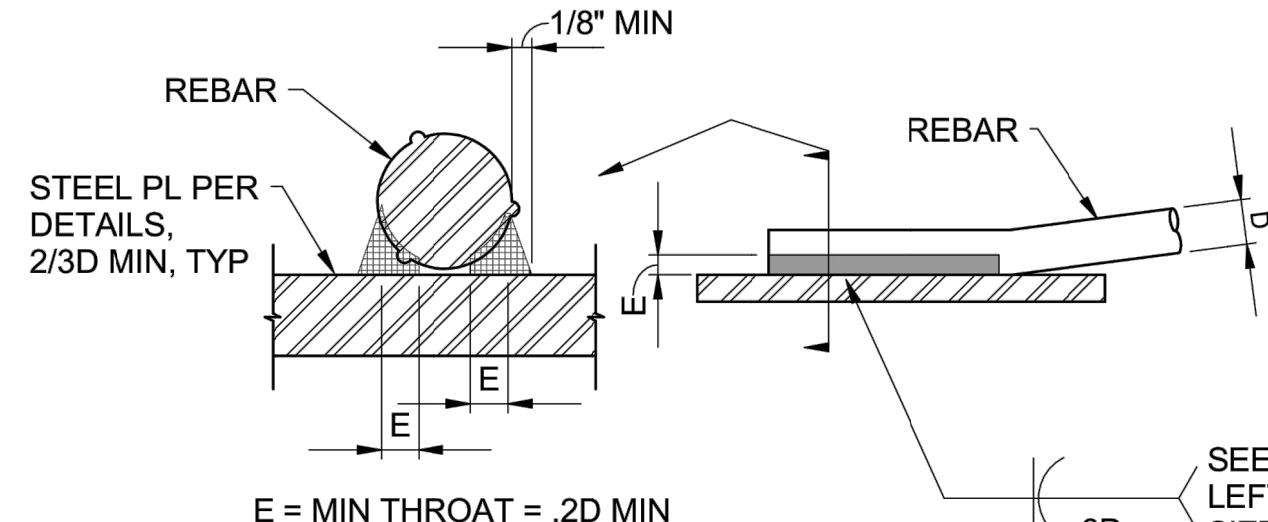
**3** **S0.04** **WALL EXPANSION JOINTS AND WEAKENED PLANES**



**7** **S0.04** **CORNER REINFORCING AT CONCRETE FOOTINGS**

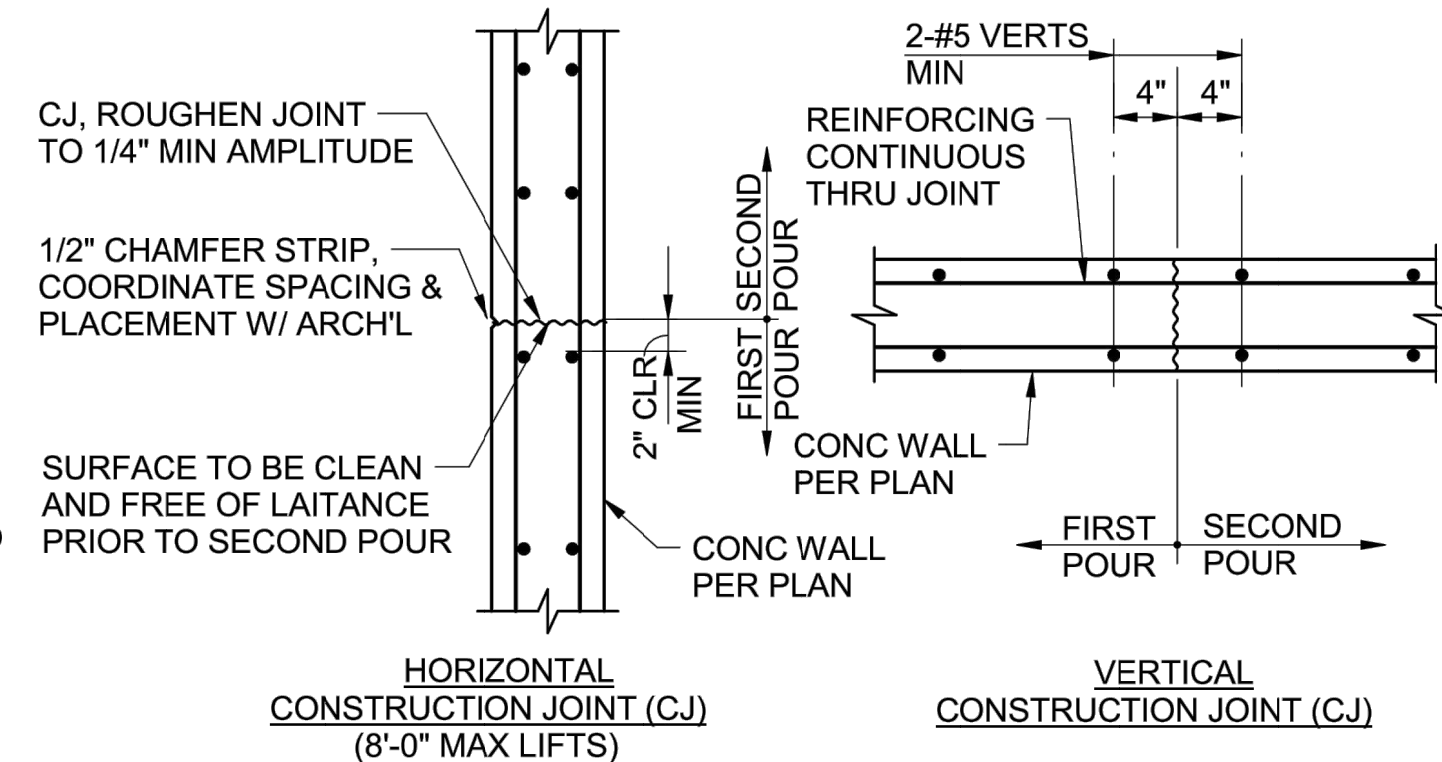


**8** **S0.04** **STANDARD REBAR HOOKS AND BENDS**

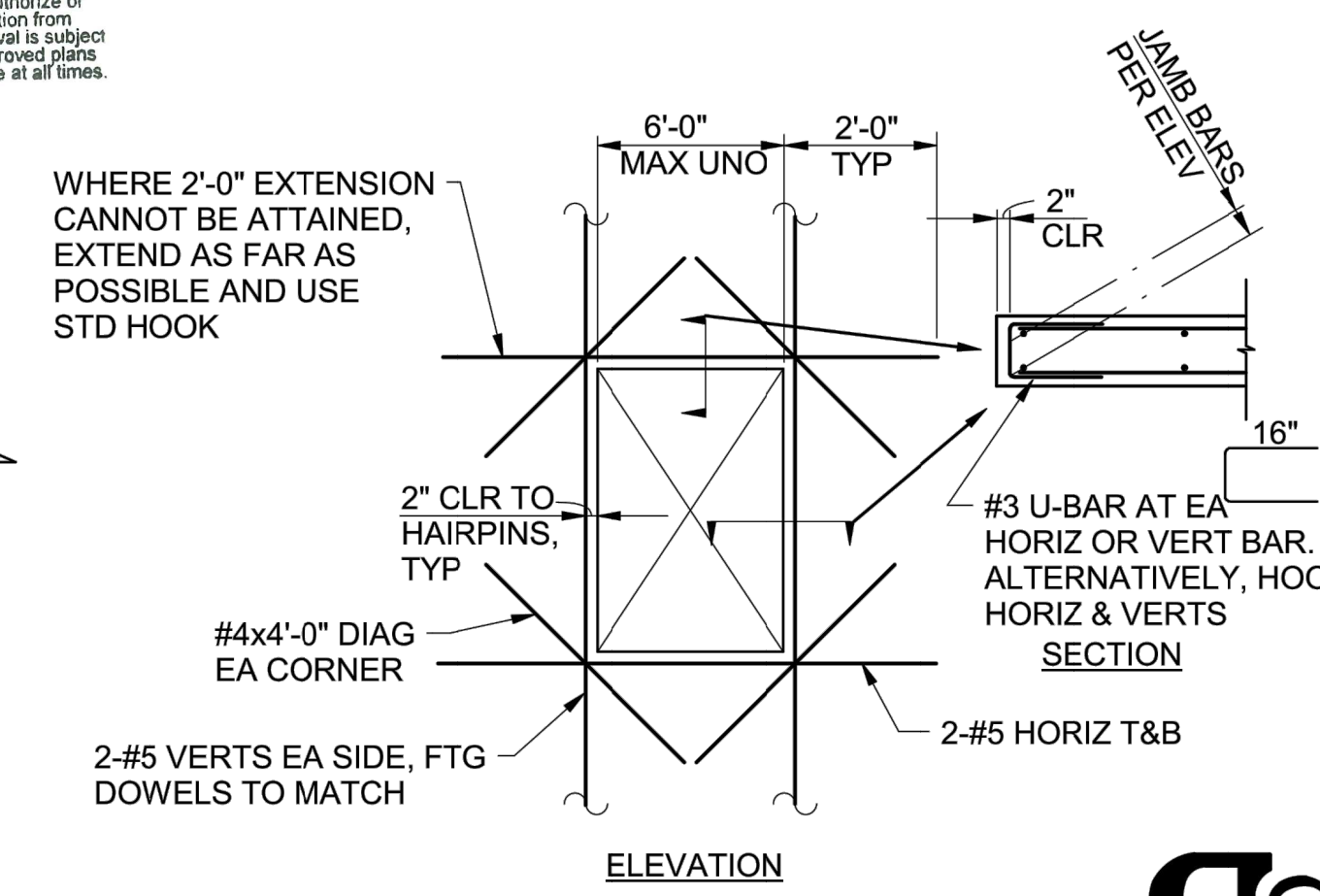


- NOTES:**
1. REINFORCING TO BE WELDED, EXCEPT ASTM A706, SHALL CONFORM TO THE MATERIAL PROPERTY REQUIREMENTS OF ANSI/AWS D1.4, NEWEST EDITION.
  2. ALL PREHEATING AND WELDING SHALL BE DONE IN ACCORDANCE WITH ANSI/AWS D1.4, NEWEST EDITION.
  3. ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY.

**9** **S0.04** **REBAR WELDING**



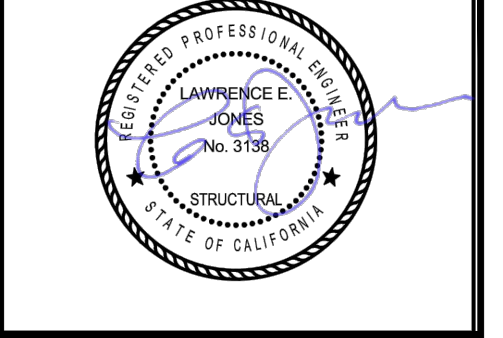
**10** **S0.04** **CONCRETE WALL JOINTS**



**11** **S0.04** **OPENING REINFORCING IN CONCRETE WALLS**



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SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION

TYPICAL DETAILS

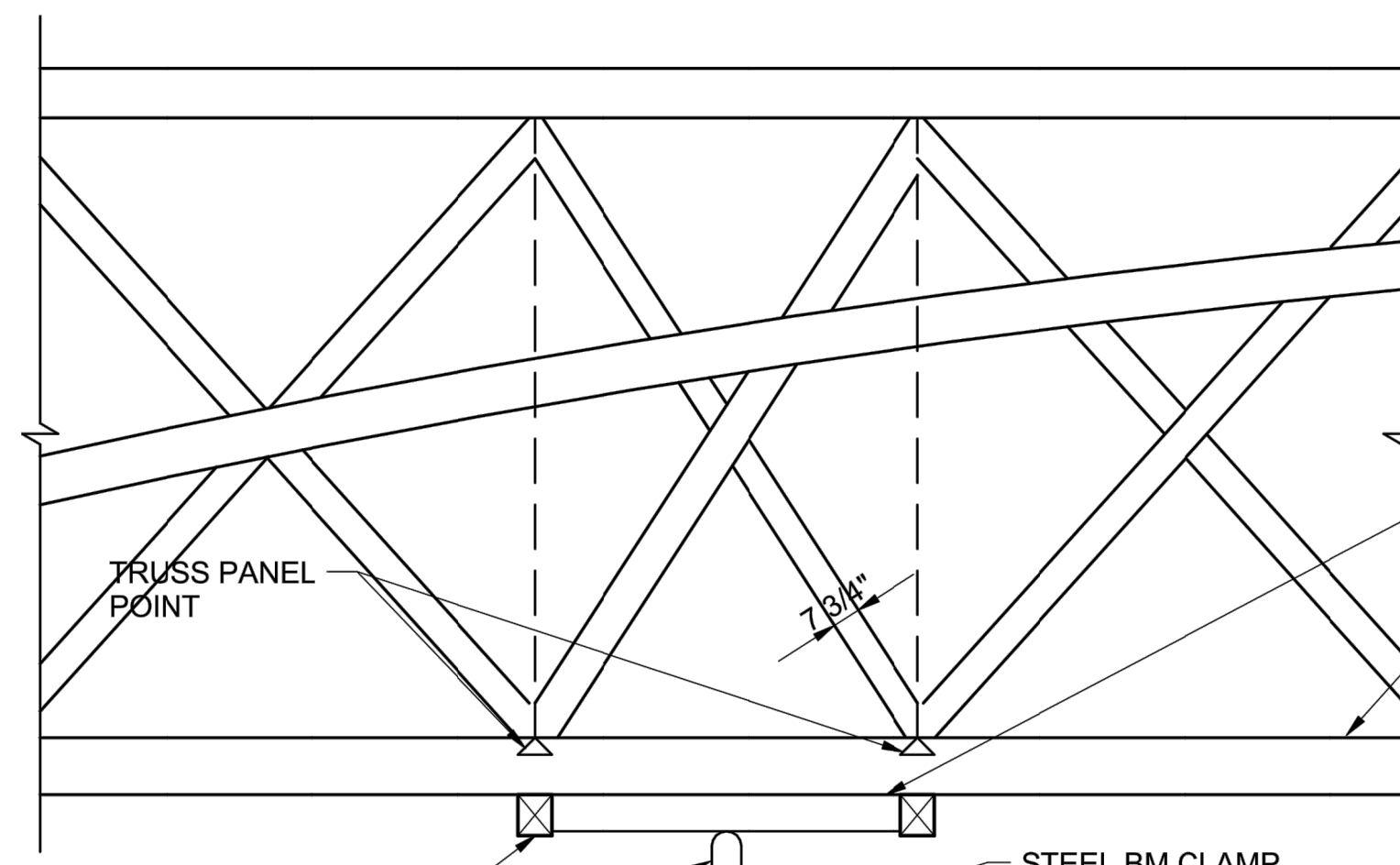
DRAWING NO.  
30419.006

SHEET NO.  
S0.04

006 OF 030

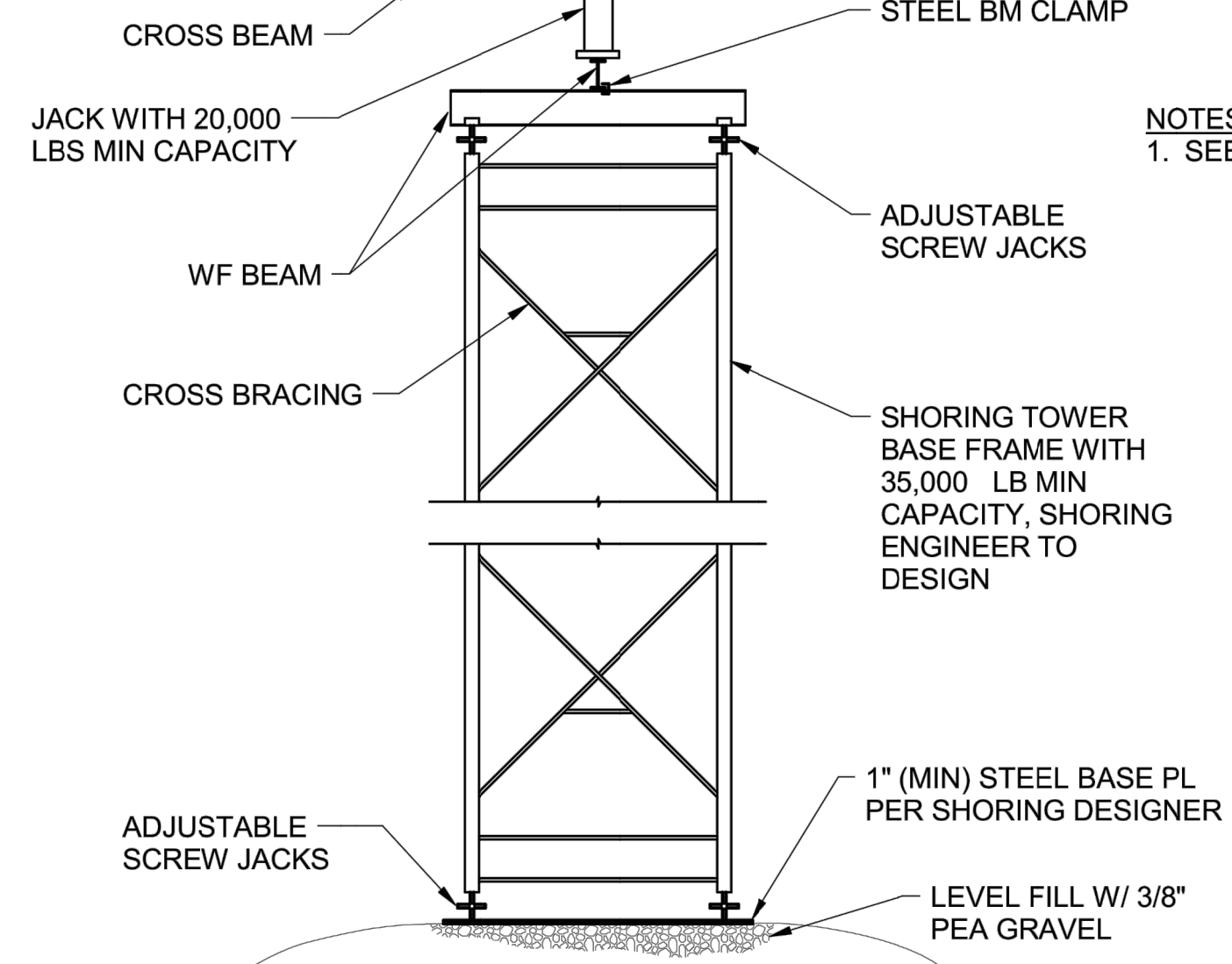


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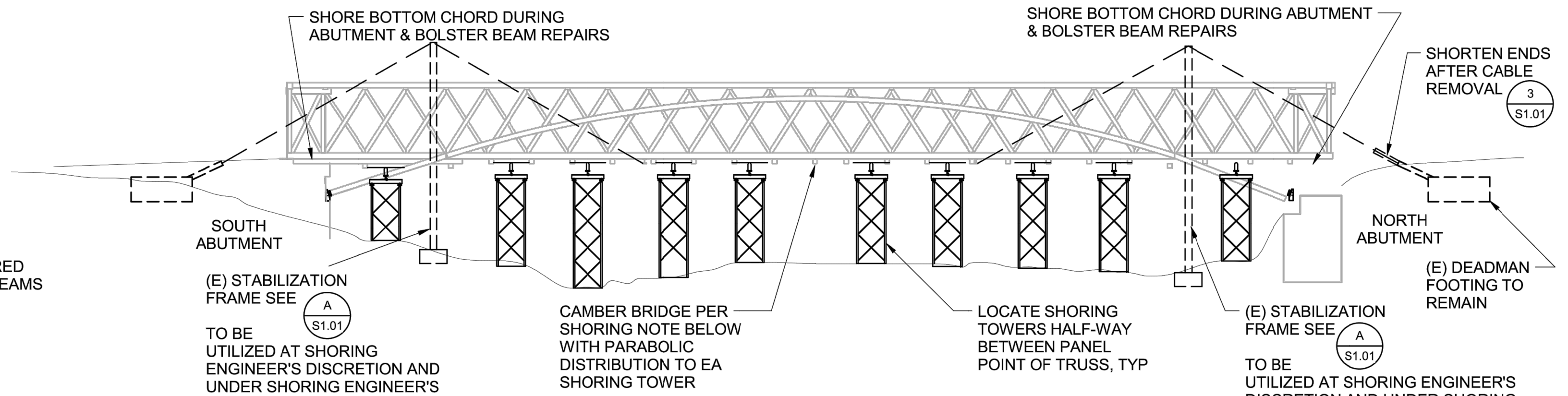
PROVIDE I-BEAM BLKG SECURED BETWEEN EXISTING CROSS BEAMS

BOTTOM CHORD - BRACE BOTTOM CHORD LATERALLY DURING FLOOR DECK REMOVAL AND RE-INSTALLATION



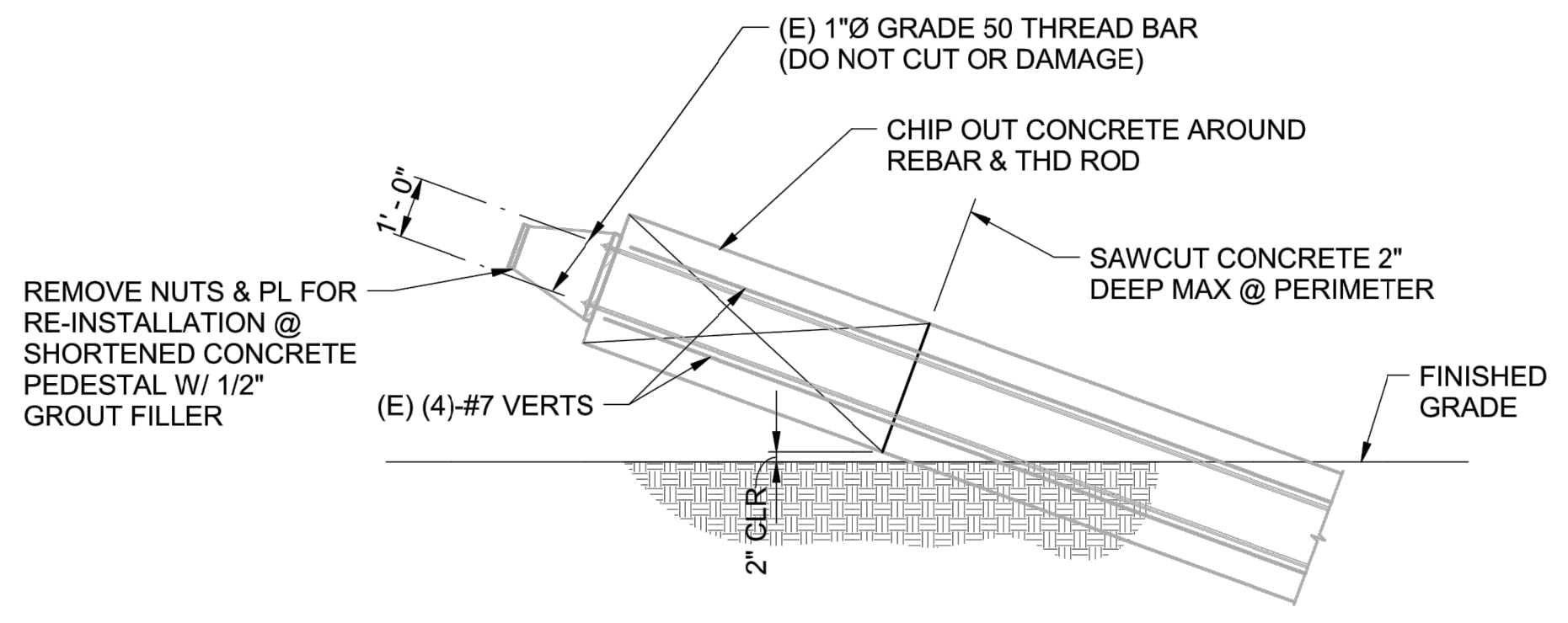
NOTES:  
1. SEE SHORING NOTES FOR DEAD LOADING

**SHORING DETAIL** (1) S1.01 — 1/4" = 1'-0"

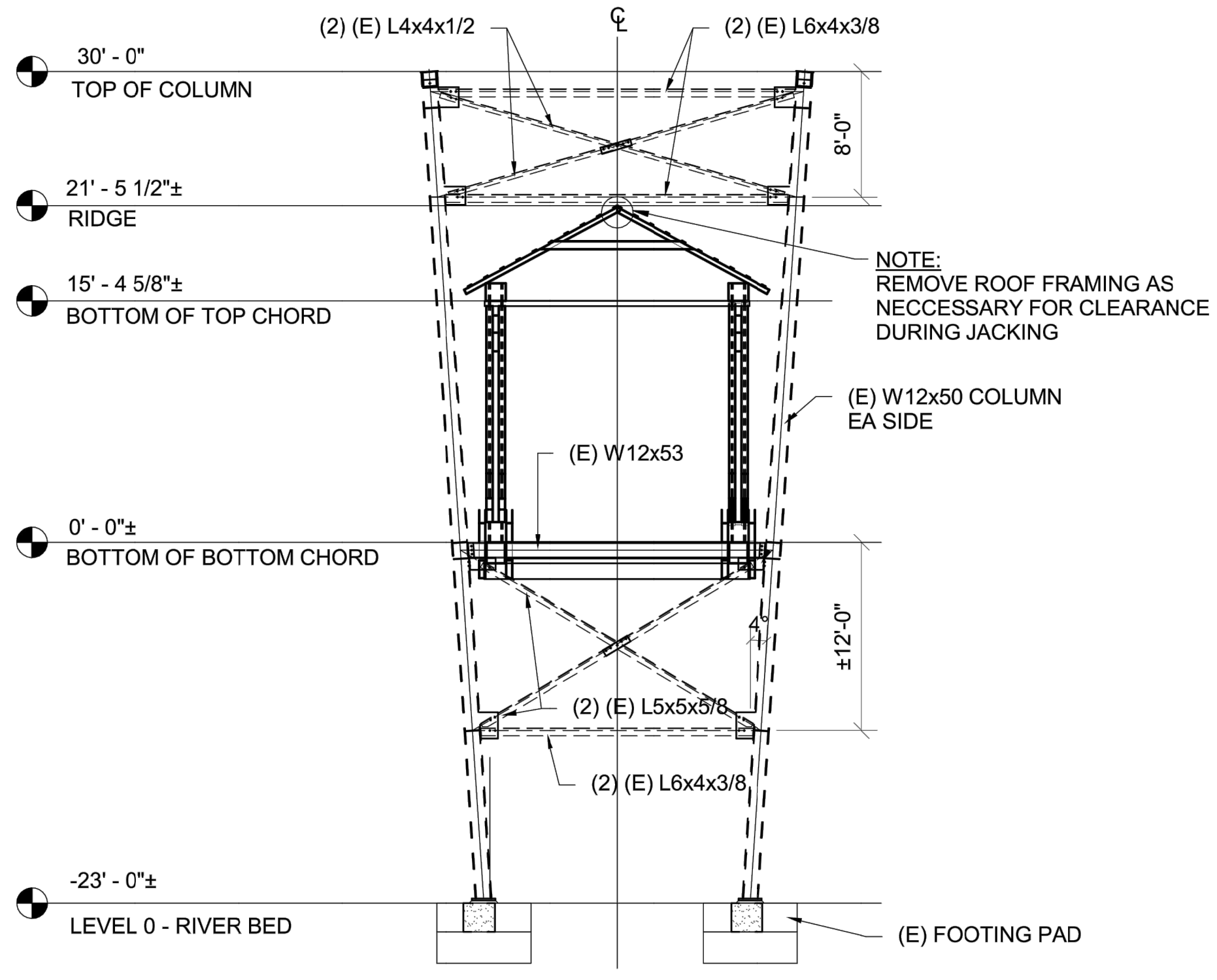


**SHORING ELEVATION** (2) S1.01 — 1" = 20'-0"

NOTE:  
CUSTODY OF EXISTING TEMPORARY STABILIZATION FRAME TO REMAIN WITH CALIFORNIA STATE PARKS.



**EXISTING TIEBACK END REPAIR** (3) S1.01 — 3/8" = 1'-0"



**(E) TEMPORARY STABILIZATION FRAME** (A) S1.01 — 1/8" = 1'-0"

(B) S1.01

- SHORING NOTES:**
1. PRIOR TO SHORING, CONTRACTOR TO PERFORM AS-BUILT SURVEY AND PROVIDE SHORING AND ALIGNMENT PROCEDURES IN ORDER TO ESTABLISH VERTICAL AND HORIZONTAL CONTROL.
  2. CONTRACTOR SHALL ENGAGE A CIVIL ENGINEER TO DESIGN & DETAIL SHORING & BRACING SYSTEM.
  3. SHORING CONTRACTOR SHALL HAVE 5 YEARS MINIMUM EXPERIENCE.
  4. SHORING SYSTEM SHALL BE ADJUSTABLE TO ALLOW STRAIGHTENING AND CAMBERING OF EXISTING TRUSS ELEMENTS AND REPLACEMENT OF DETAILED MEMBERS
  5. DEAD LOAD OF EACH TRUSS IS 650 LBS PER FOOT
  6. CONTRACTOR TO PROVIDE SHORING AND BRACING SHOP DRAWINGS AND CALCULATIONS SIGNED BY CIVIL ENGINEER REGISTERED IN CALIFORNIA.
  7. BRIDGE TO BE SHORED TO ELEVATION SHOWN ON DRAWINGS. PROVIDE AN INITIAL UPWARD CAMBER OF 4" AT MIDSPAN PRIOR TO SHORING RELEASE TO ACCOUNT FOR TRUSS DEAD LOAD DEFLECTION.
  8. SECONDARY SHORING NOT SHOWN. SHORING CONTRACTOR TO DETERMINE WHERE REQUIRED
  9. CONTRACTOR MAY UTILIZE (E) STABILIZATION FRAME IN SHORING PRIOR TO REMOVAL

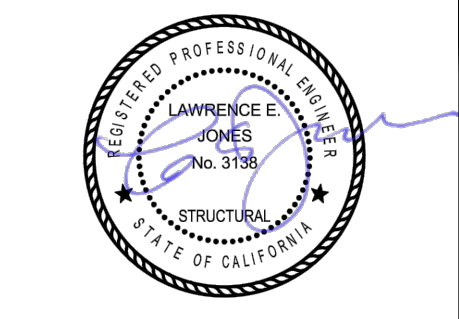
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Reviewed by: *David Nye, DSFM*

JAN 09 2018

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HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
**SHORING PLAN**

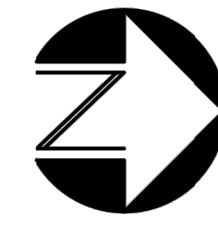
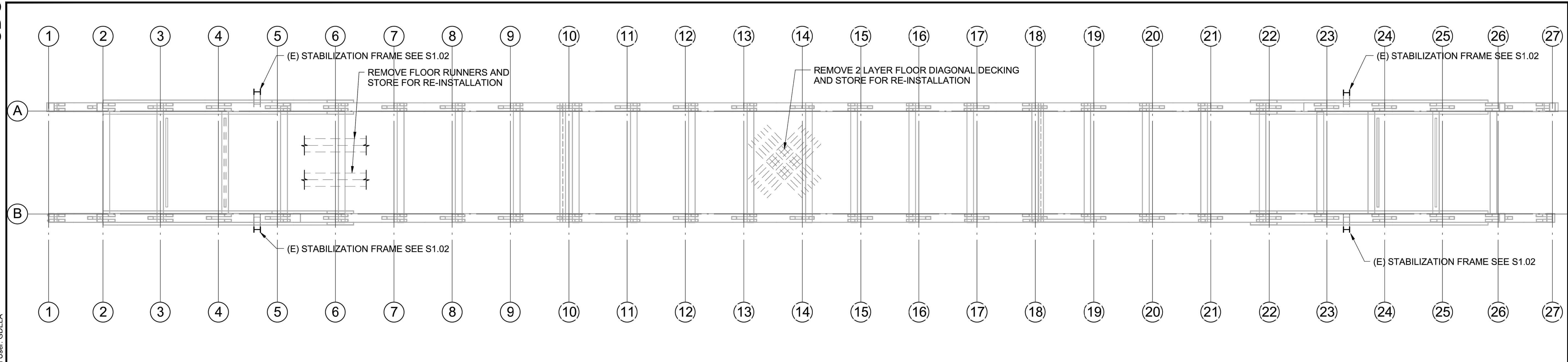


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**S1.01**

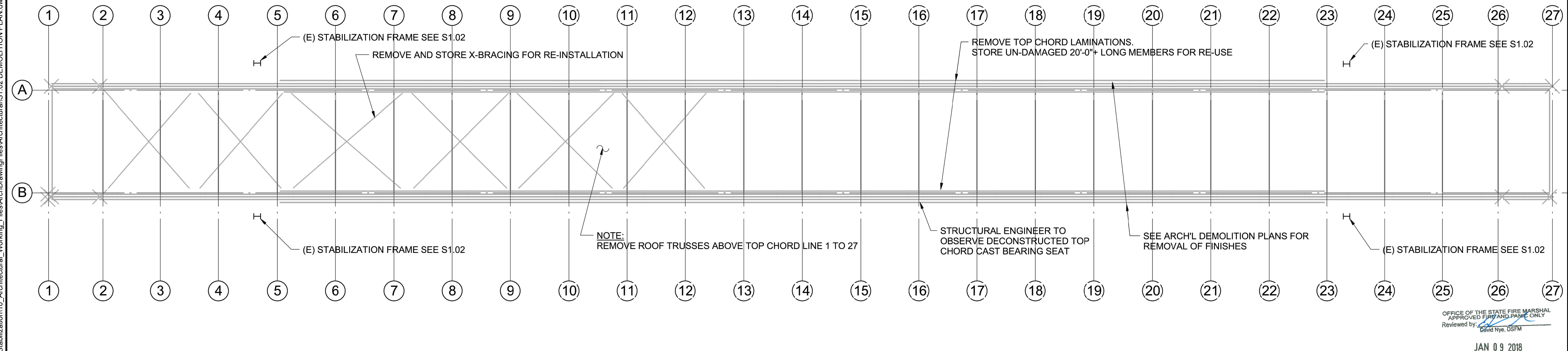
007 OF 030



**FLOOR DECK DEMOLITION PLAN — 1/8" = 1'-0"**

**NOTE:**

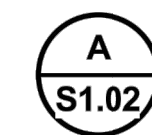
1. SEE S0.02 FOR DEMOLITION NOTES.
2. SEE SHEET S1.01 FOR SHORING NOTES PRIOR TO DEMOLITION.
3. KNOWN DAMAGE TO EXISTING FLOOR DIAGONAL DECKING AND BOTTOM CHORD HAS BEEN RECORDED IN DRAWING SET. ANY ADDITIONAL DAMAGE ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. AFTER FLOOR DECK HAS BEEN REMOVED, CONTRACTOR TO PROVIDE TIMBER INSPECTION OF THE (E) BOTTOM CHORDS. NOTIFY STATE REPRESENTATIVE AND ENGINEER OF ANY DAMAGE ENCOUNTERED.



**TOP CHORD DEMOLITION PLAN — 1/8" = 1'-0"**

**NOTE:**

1. SEE SHEET S1.01 FOR SHORING NOTES PRIOR TO DEMOLITION.
2. SALVAGE EXISTING MATERIALS AND STORE. DO NOT DAMAGE EXISTING MATERIALS DURING DEMOLITION
3. KNOWN DAMAGE TO THE EXISTING UPPER CHORD AND UPPER STRUCTURE HAS BEEN RECORDED IN DRAWING SET. ANY ADDITIONAL DAMAGE ENCOUNTERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
4. AT TIME OF TOP CHORD REMOVAL FOR RECONSTRUCTION, ALERT STRUCTURAL ENGINEER. TOP CHORD CAST BEARING SEAT TO BE REMOVED FOR OBSERVATION BY SEOR



**SALVAGE REUSE NOTES:**

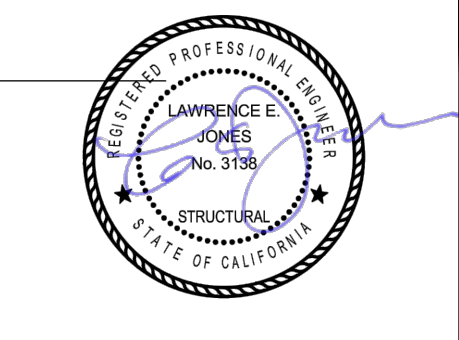
1. CONTRACTOR SHALL HOLD 20% CONTINGENCY FOR BROKEN OR DAMAGED MEMBERS.
2. REUSED MATERIALS SHALL BE SUBJECT TO TIMBER INSPECTOR OVERSIGHT.
3. NET SIZES OF REPLACED MEMBERS SHALL MATCH EXISTING MEMBERS.
4. SEE GENERAL NOTES FOR LUMBER GRADE & MOISTURE CONTENT REQUIREMENTS.
5. REMOVE EXISTING TENSION RODS WITHOUT CUTTING OR DAMAGING.

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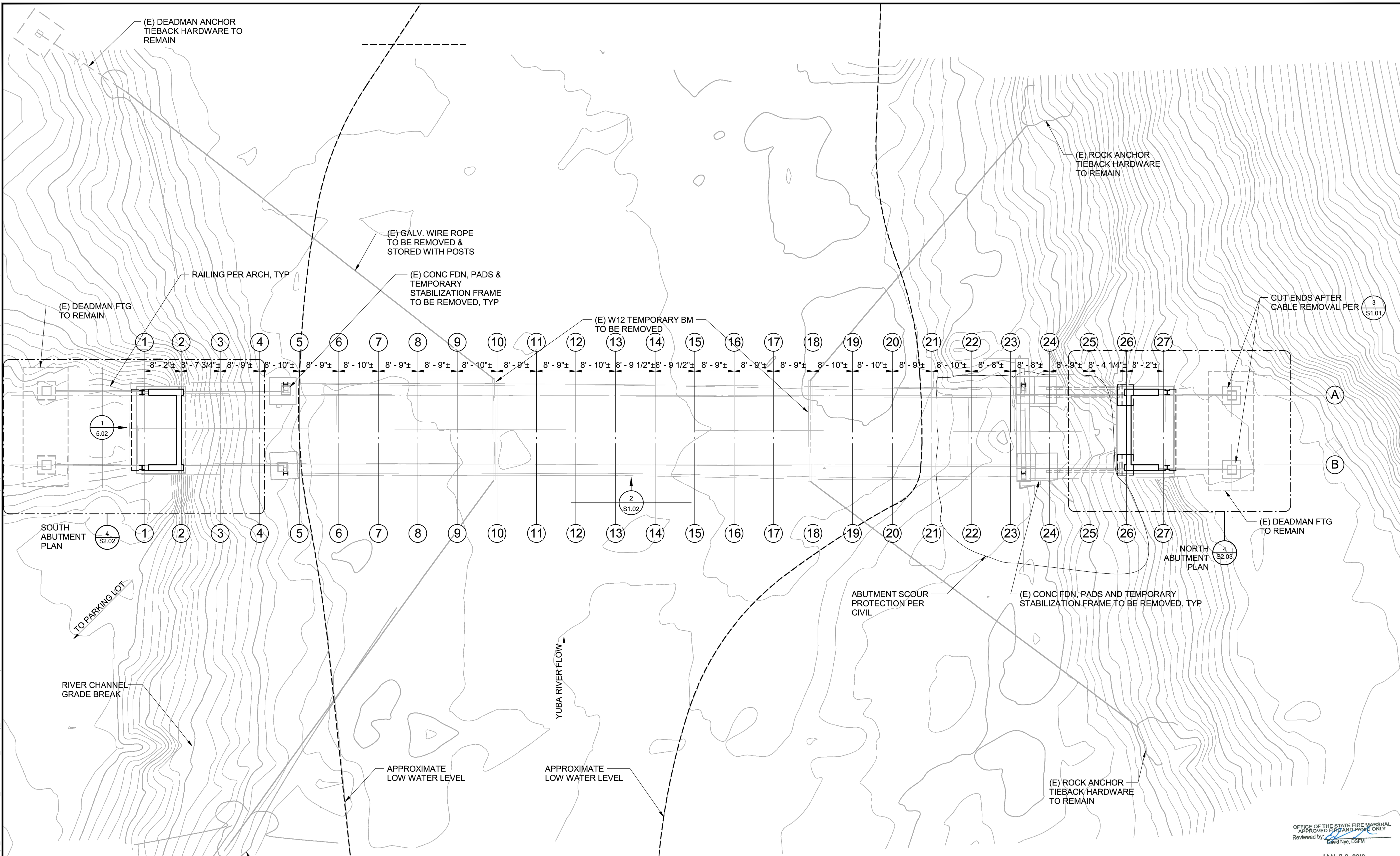
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DEMOLITION PLAN

DRAWING NO.  
30419.008

SHEET NO.  
S1.02

008 OF 030





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**BRIDGE FOUNDATION PLAN**

DRAWING NO.  
30419.009

SHEET NO.  
**S2.01**

009 OF 030

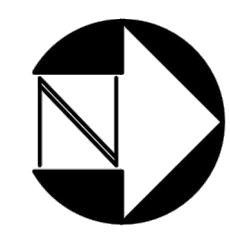
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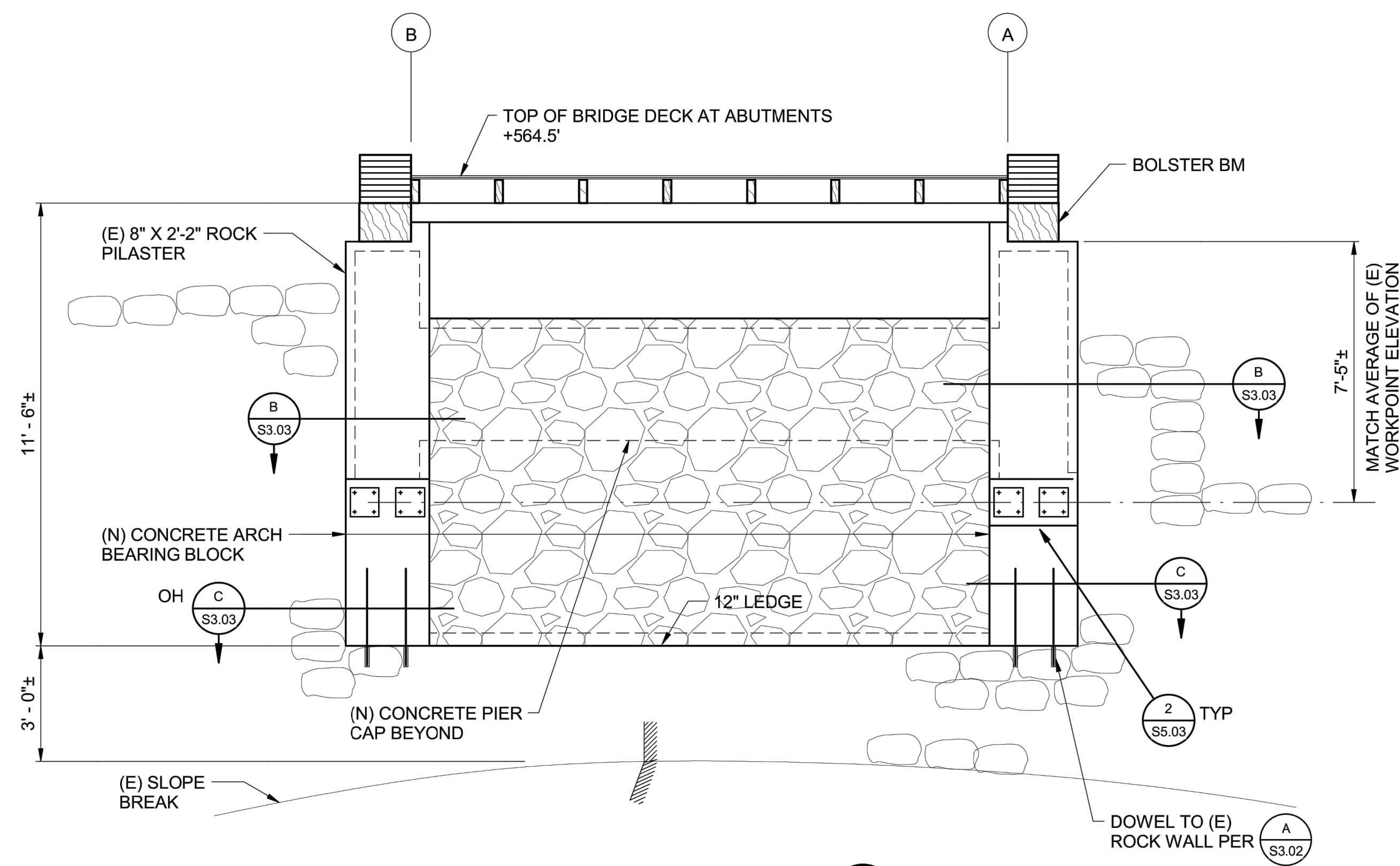


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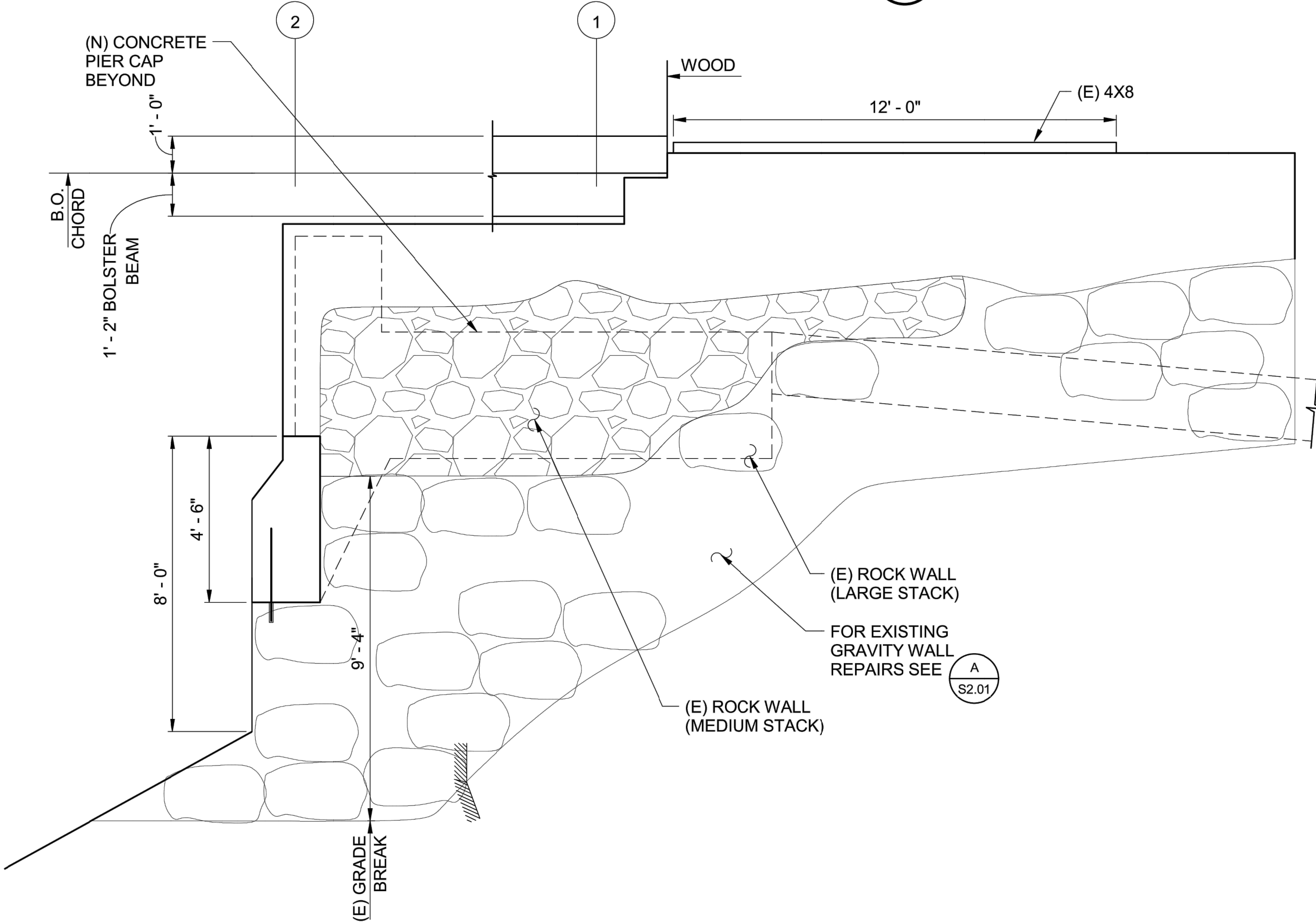
- A S2.01** ABUTMENT ROCK WALL REPAIR PROCEDURES
- EXISTING LARGE STACK ROCK WALL TO REMAIN INTACT. REPAIR INTENTION IS TO STABILIZE ROCK WALL. EXISTING STONE MASONRY VENEER IS INTENDED TO BE REPLACED.
  - CLEAN JOINTS BETWEEN ROCK AND GROUT TO 12" DEPTH OR TWO-THIRDS ROCK DEPTH MINIMUM.
  - PROVIDE SHORING AS REQUIRED.
  - REMOVE BACKFILL BEHIND ROCK WALL FOR PILE CAP WALL ANCHORAGE AND INSTALLATION.
  - INSTALL MICROPILES.
  - BACKFILL AND CONSTRUCT PILECAP.
  - CONSTRUCT STONE MASONRY VENEER TO MATCH EXISTING CONDITIONS. CONTRACTOR CAN PREPARE AND SUBMIT ALTERNATE REPAIR PROCEDURE FOR REVIEW. (SEE GENERAL NOTE #8 ON SHEET S0.01)
  -



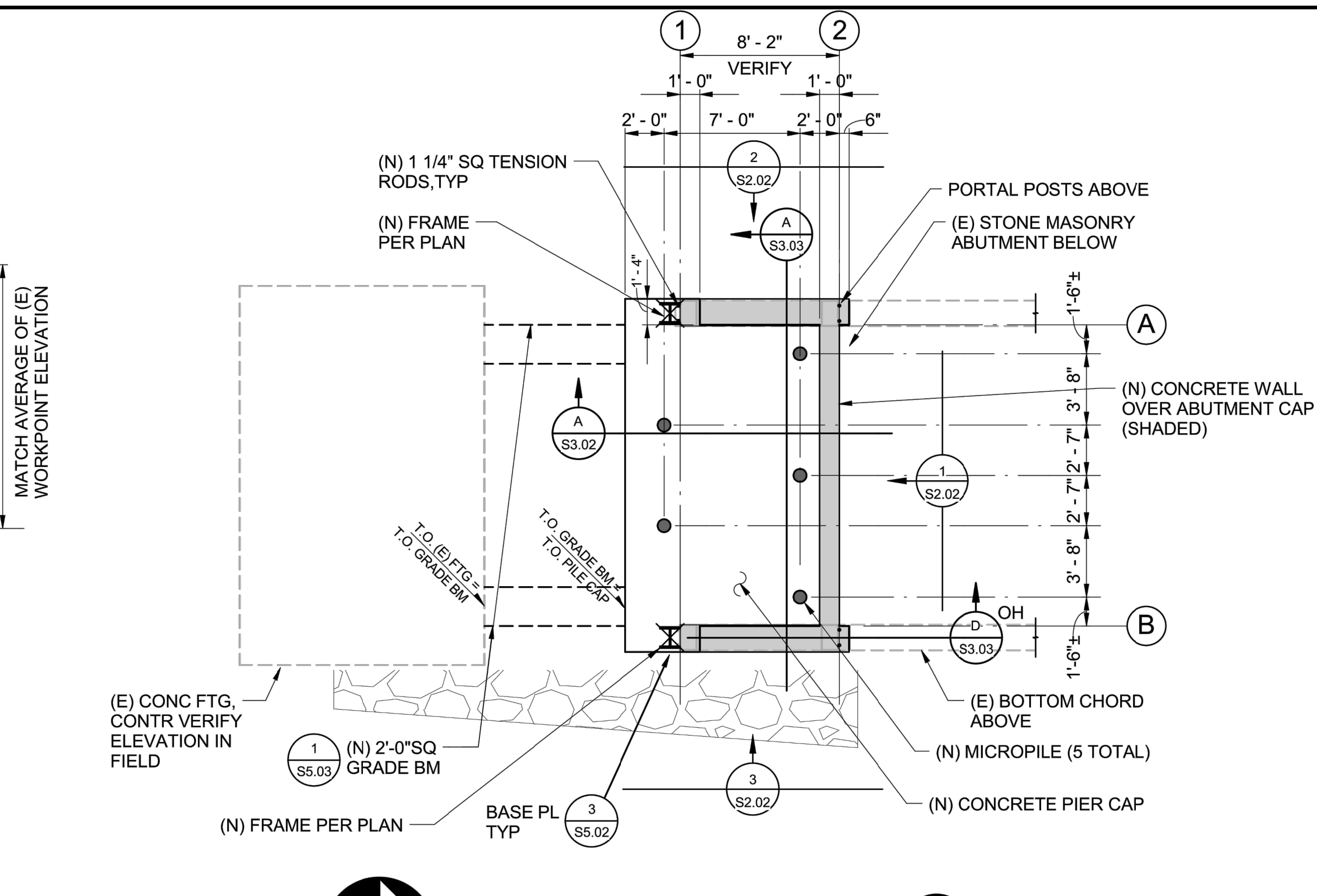
BRIDGE FOUNDATION PLAN — 3/32" = 1'-0"



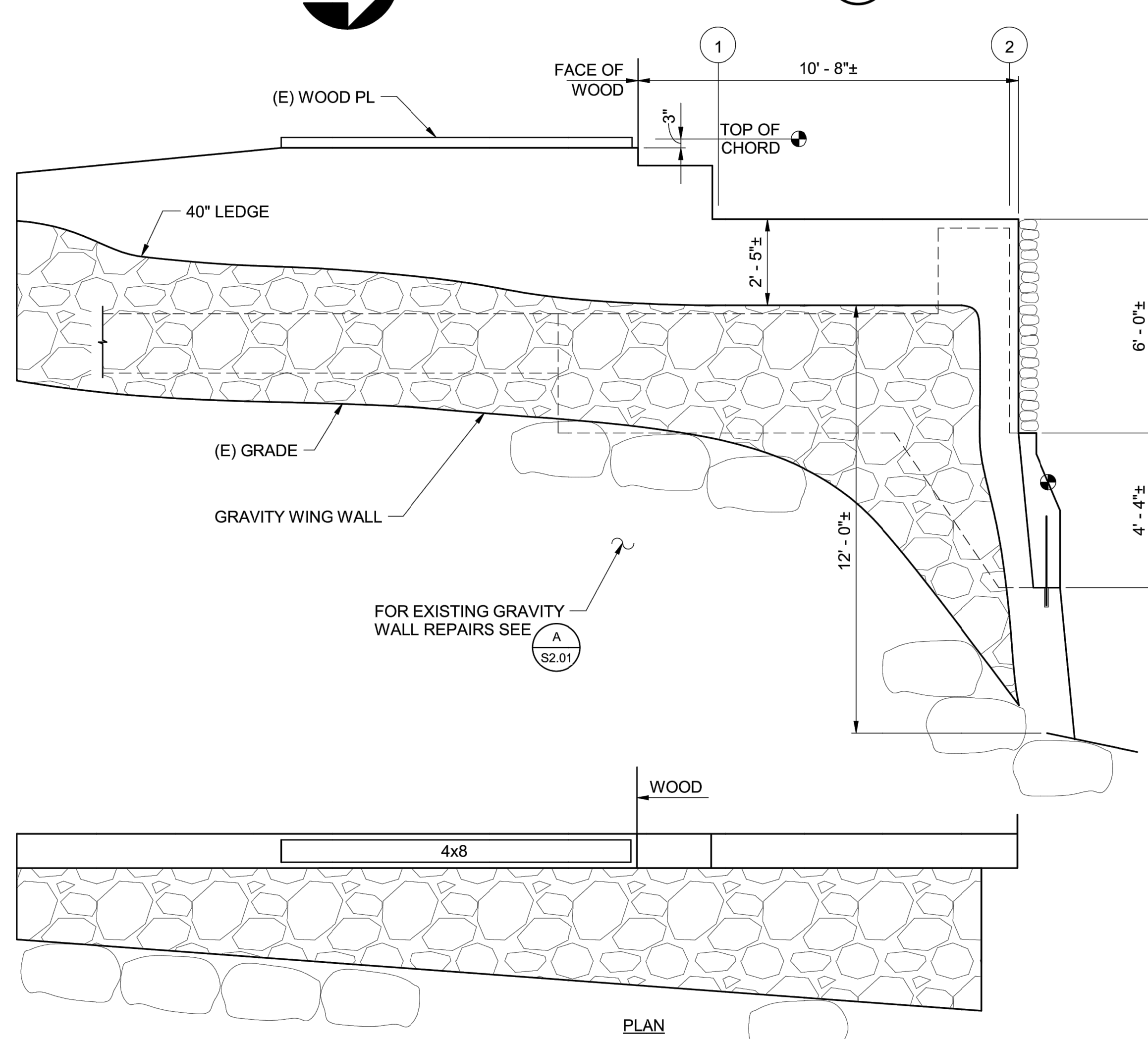
**SOUTH ABUTMENT ELEVATION** 1/S2.02 — 3/8" = 1'-0"



**SOUTH ABUTMENT - WEST ELEVATION** 2/S2.02 — 3/8" = 1'-0"



**SOUTH ABUTMENT PLAN** 4/S2.02 — 3/16" = 1'-0"



**SOUTH ABUTMENT - EAST ELEVATION** 3/S2.02 — 3/8" = 1'-0"

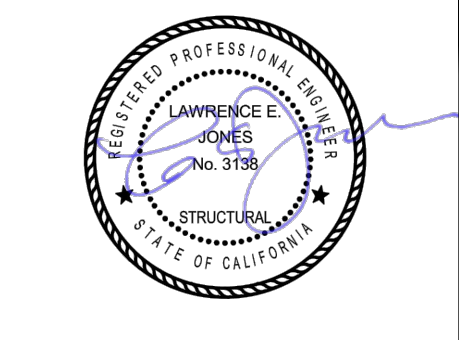
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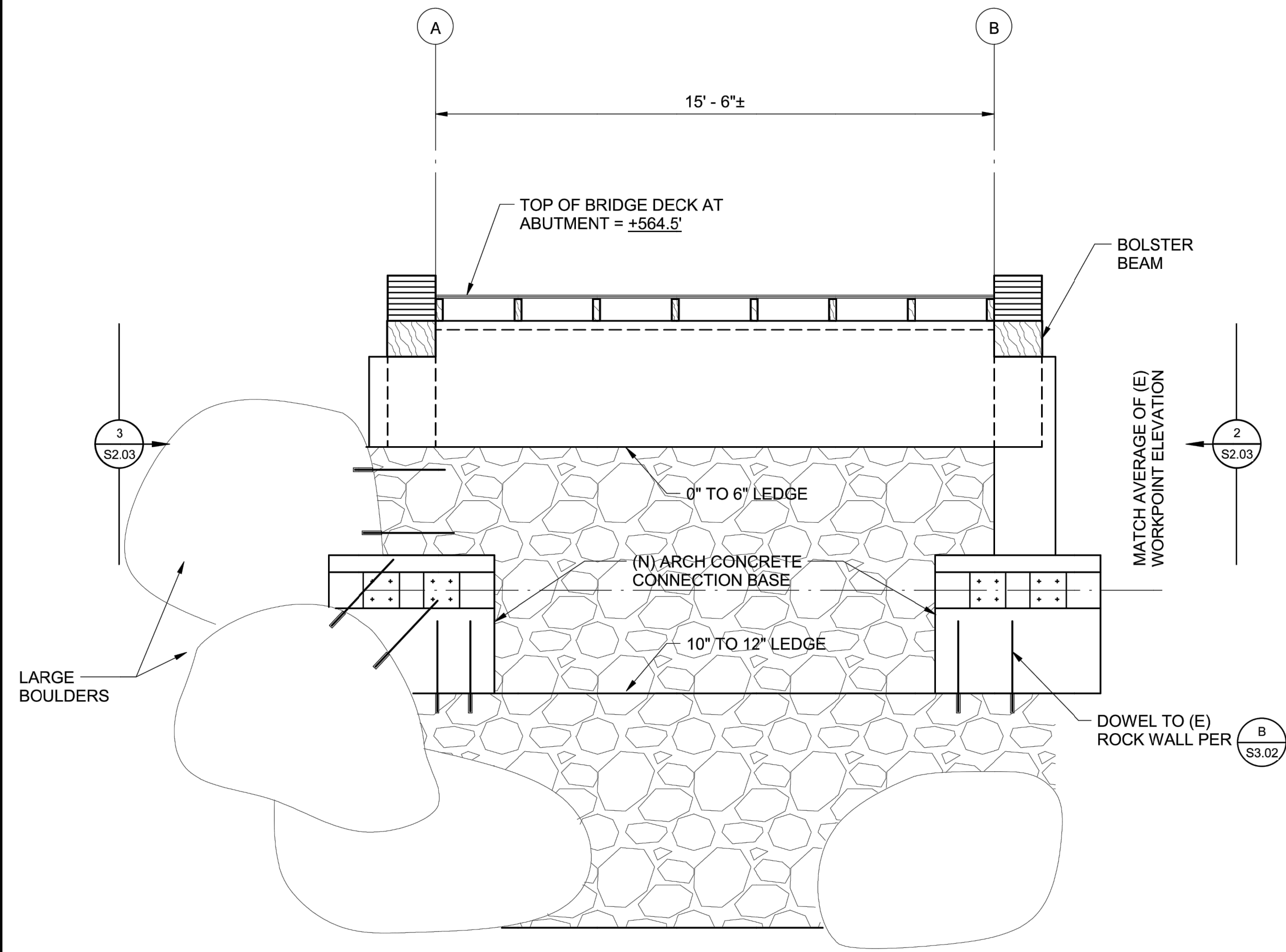
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SOUTH YUBA RIVER STATE PARK  
 HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
**SOUTH BRIDGE ABUTMENT PLAN**

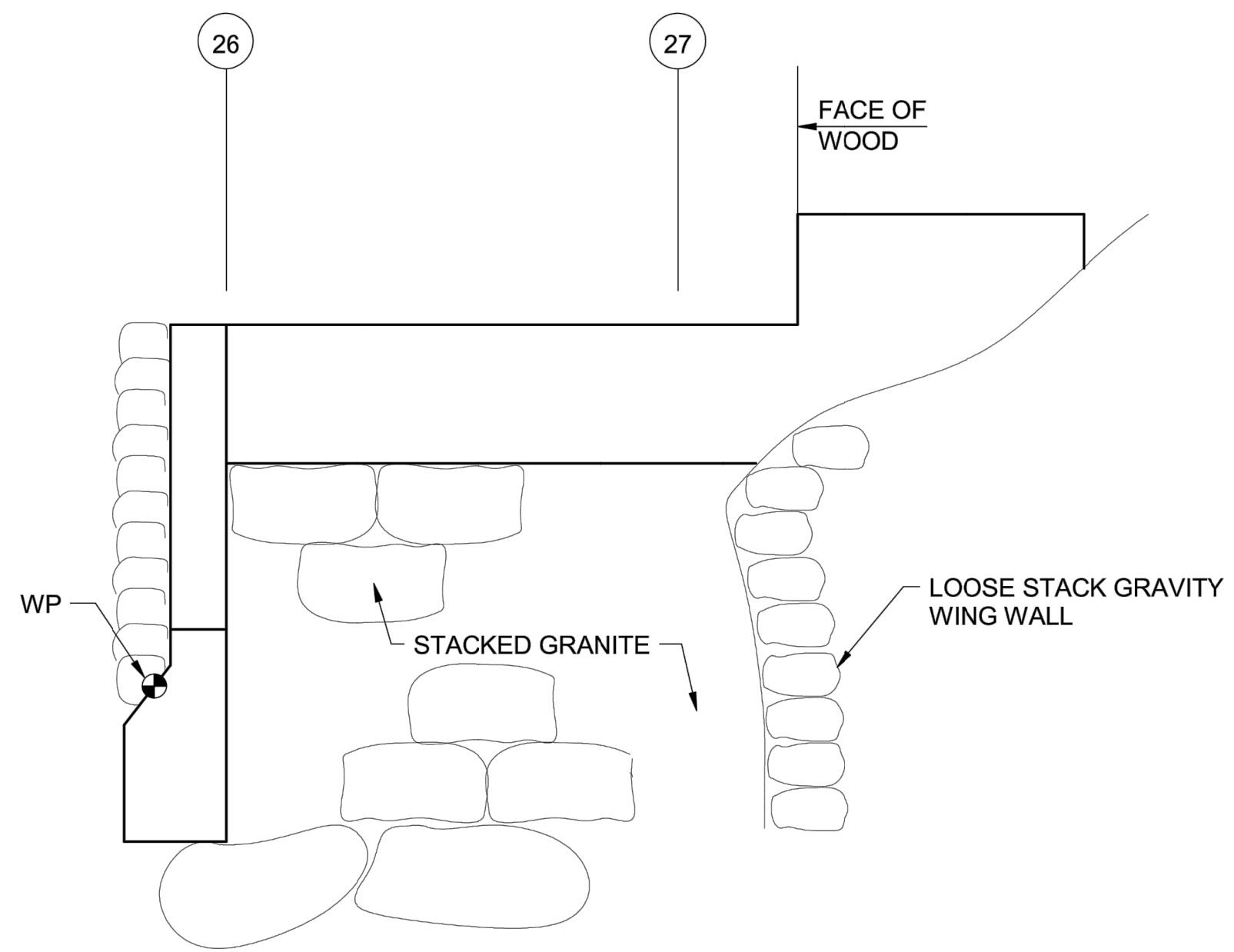
DRAWING NO.  
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SHEET NO.  
**S2.02**

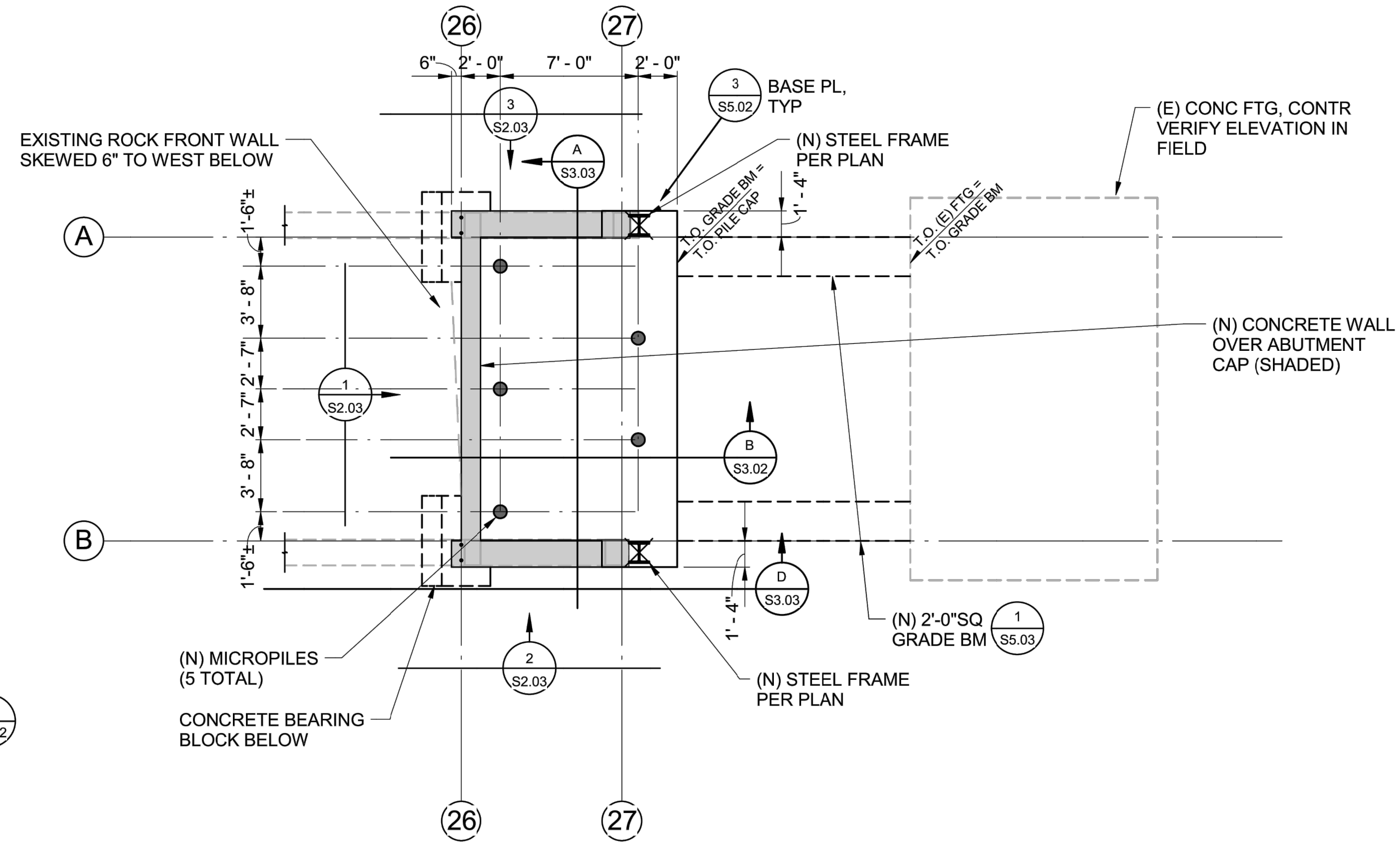
10 OF 030



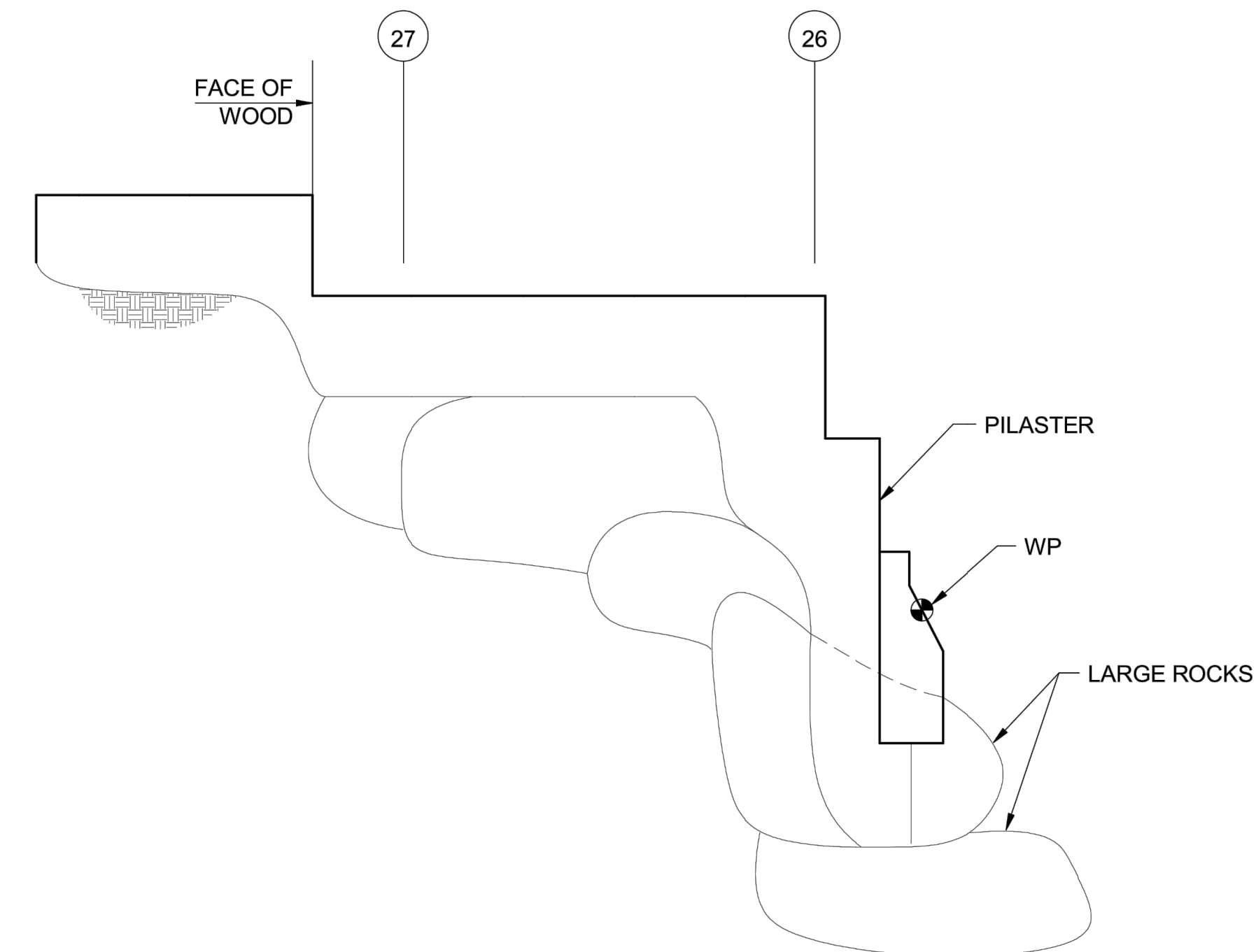
NORTH ABUTMENT ELEVATION (1) S2.03 — 3/8" = 1'-0"



NORTH ABUTMENT - EAST ELEVATION (2) S2.03 — 3/8" = 1'-0"



NORTH ABUTMENT PLAN (4) S2.03 — 3/16" = 1'-0"



NORTH ABUTMENT - WEST ELEVATION (3) S2.03 — 3/8" = 1'-0"

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SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
NORTH BRIDGE ABUTMENT PLAN

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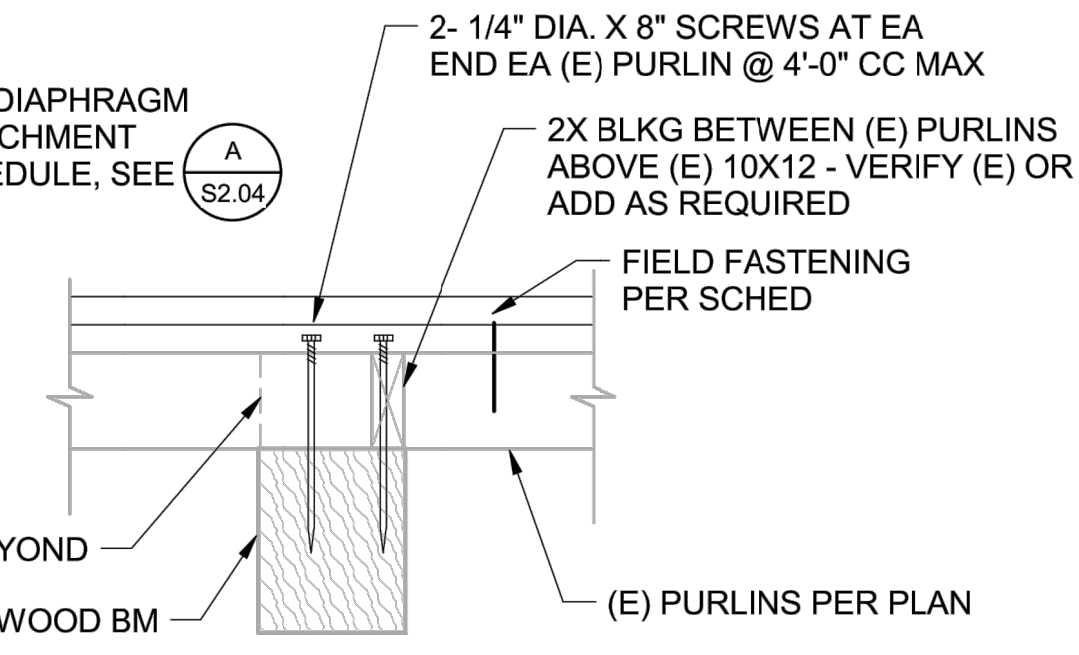
SHEET NO.  
S2.03

011 OF 030

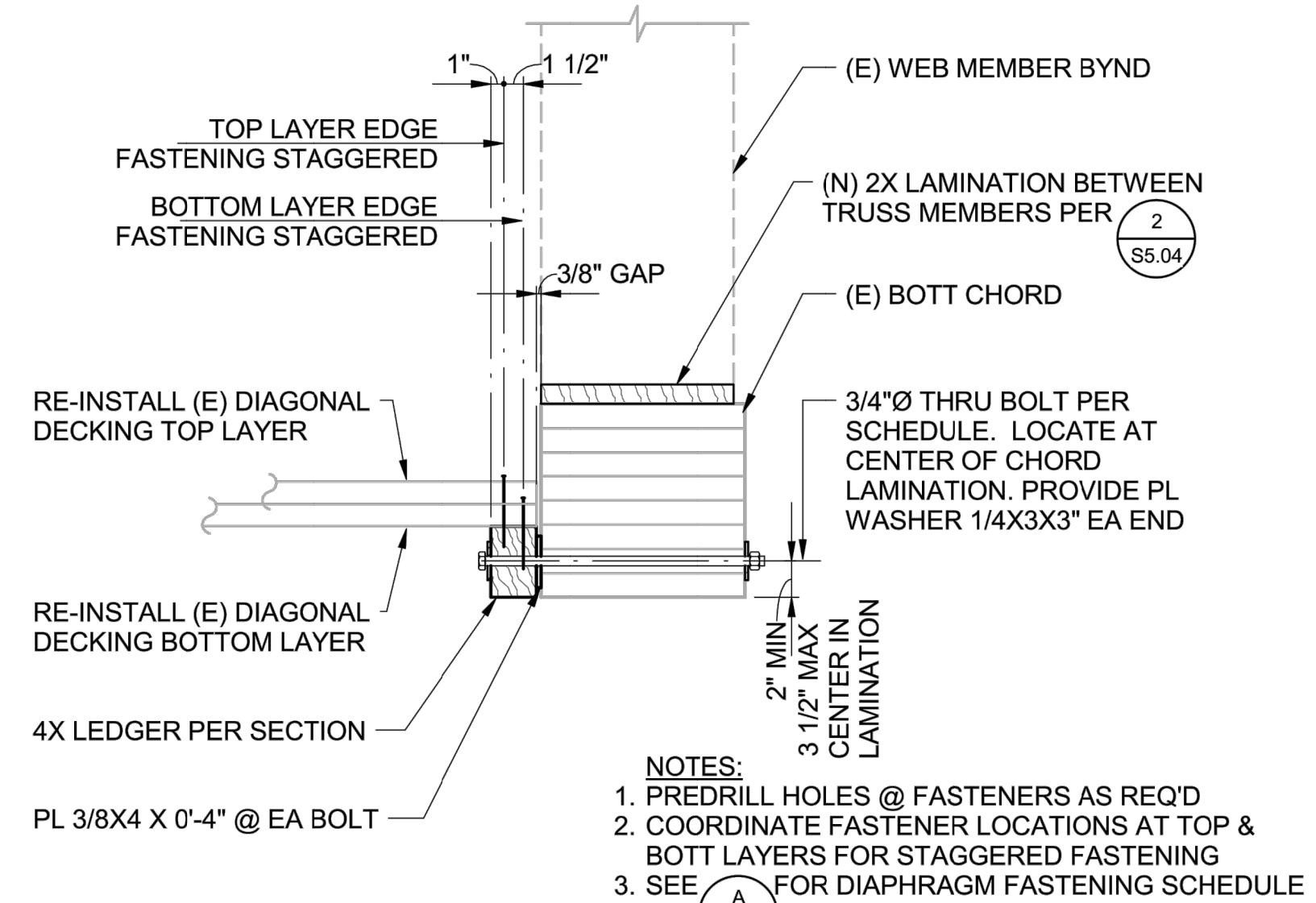
File: Q:\South\_Yuba\_River\_SP202193-Covered\_Bridge\_Stabilization\10\_Architectural\_Working\_Files\ArchDrawingFiles\Architectural\S2.04 BRIDGE FLOOR DECK & TOP CHORD BRACING PLAN.dwg Layout: BRIDGE FLOOR DECK & TOP CHORD BRACING PLAN Date: 8/11/18

NOTES:

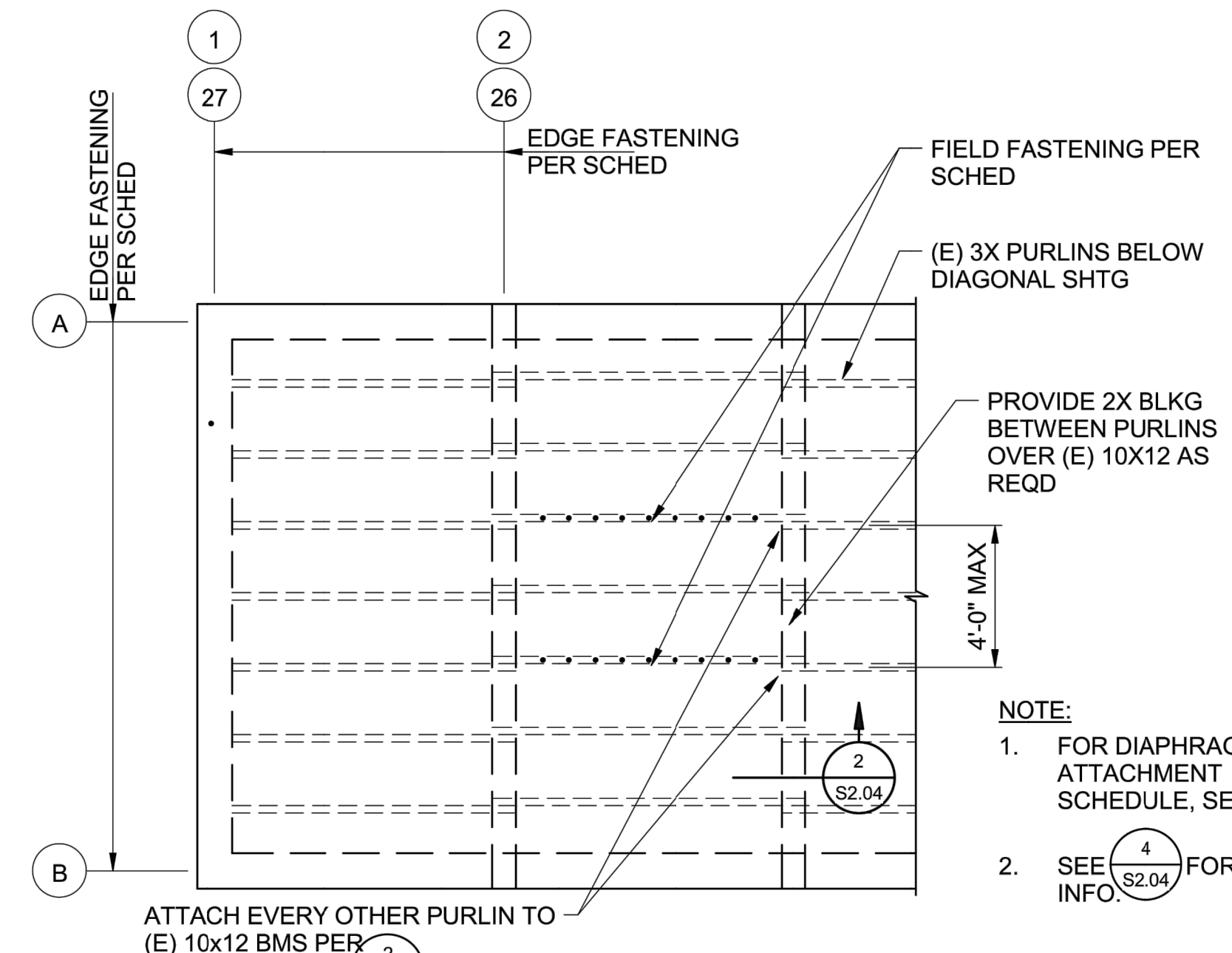
- 1. FOR DIAPHRAGM ATTACHMENT SCHEDULE, SEE (A) S2.04



SECTION 2 — 1" = 1'-0"



DETAIL 1 — 1" = 1'-0"



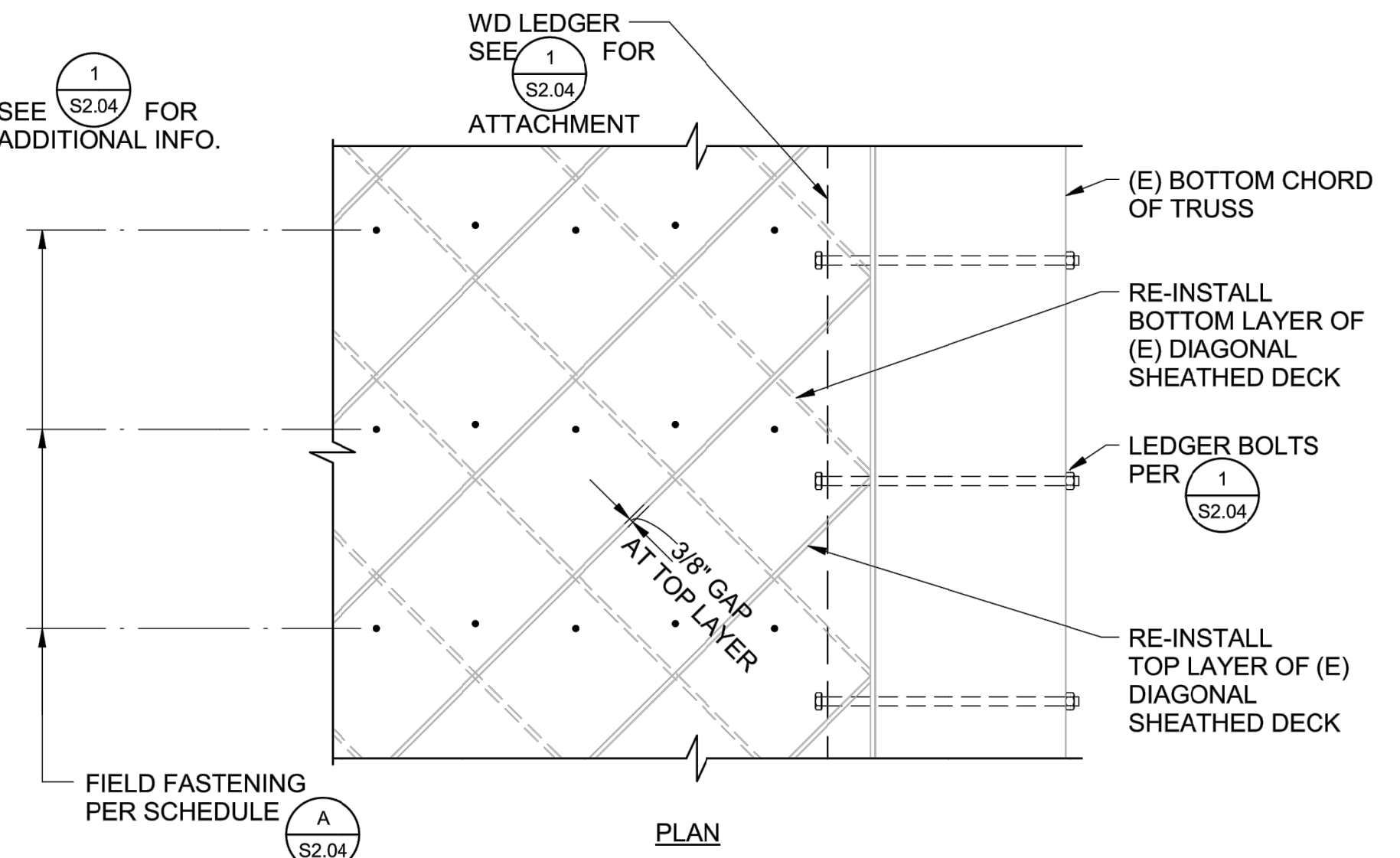
DETAIL 3 — NO SCALE

(A) S2.04 DIAPHRAGM ATTACHMENT SCHEDULE

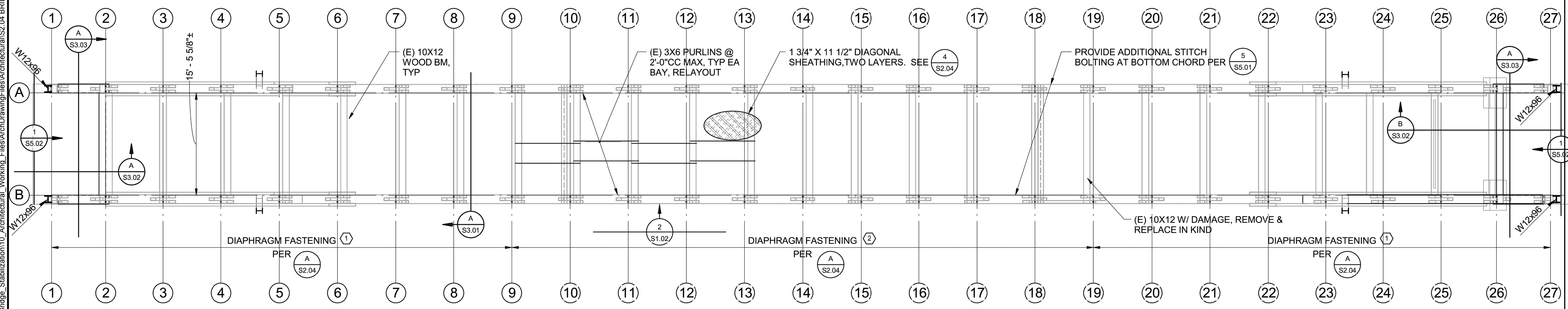
DIAPHRAGM FASTENING	TOP LAYER EDGE FASTENER	BOTTOM LAYER EDGE FASTENER	FIELD FASTENING	LEDGER TO BOTTOM CHORD FASTENER
①	1/4"Ø x 6" SDS SCREW @ 3 1/2"CC INSIDE ROW	1/4"Ø x 4 1/2" SDS SCREW @ 3 1/2"CC OUTSIDE ROW	1/4"Ø x 6" SDS SCREW @ 9"CC THROUGH TOP SHTG LAYER ALONG PURLIN	3/4"Ø THRU BOLT @ 18"CC
②	1/4"Ø x 6" SDS SCREW @ 7"CC INSIDE ROW	1/4"Ø x 4 1/2" SDS SCREW @ 7"CC OUTSIDE ROW	1/4"Ø x 6" SDS SCREW @ 9"CC THROUGH TOP SHTG LAYER ALONG PURLIN	3/4"Ø THRU BOLT @ 18"CC

NOTES:

- 1. PROVIDE ADDITIONAL DIAGONAL DECKING BOARDS AT TOP OR BOTTOM LAYER AS REQ'D.
- 2. SEE (1) S2.04 FOR ADDITIONAL INFO.



DETAIL 4 — 1" = 1'-0"



FLOOR DECK PLAN — 1/8" = 1'-0"

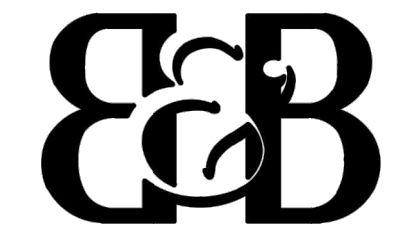
NOTES:

- 1. PRIOR TO FLOOR DECK RE-INSTALLATION, CONTRACTOR TO PROVIDE FURTHER INVESTIGATION OF EXPOSED (E) BOTTOM CHORD FOR ANY ADDITIONAL DAMAGE NOT ALREADY DENOTED IN DRAWINGS

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JAN 09 2018

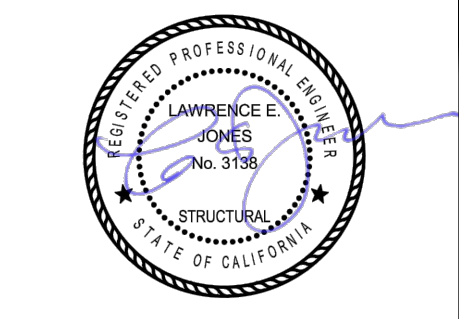
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Reviewed by: Date:

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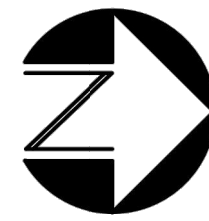
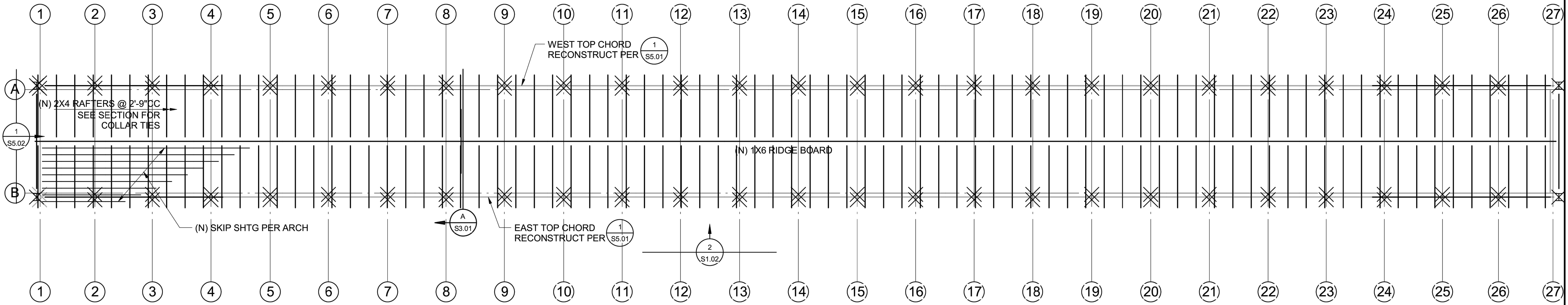
REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION BRIDGE FLOOR DECK & TOP CHORD BRACING PLAN

DRAWING NO. 30419.012

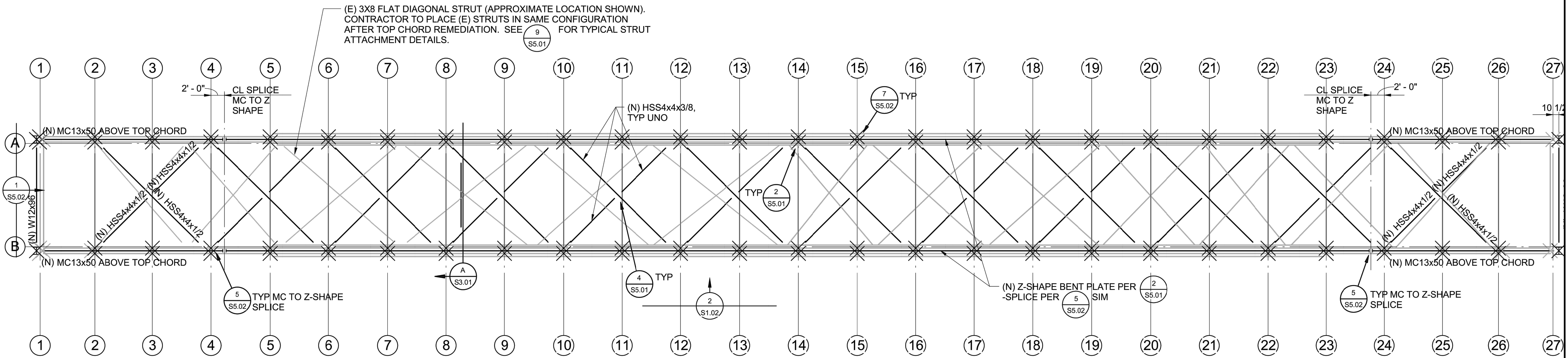
SHEET NO. S2.04

012 OF 030



**ROOF FRAMING PLAN — 1/8" = 1'-0"**

**NOTE:**  
ALL ROOF FRAMING IS INTENDED TO BE NEW CONSTRUCTION. EXISTING LUMBER MAY BE SALVAGED & USED AT DISCRETION OF STATE'S REPRESENTATIVE.

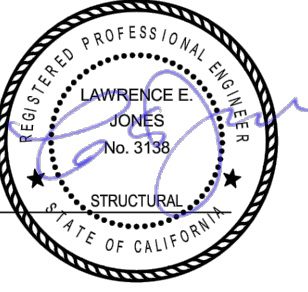


**TOP CHORD BRACING PLAN — 1/8" = 1'-0"**

**NOTE:**  
INTENT IS TO SALVAGE AND RE-INSTALL EXISTING 3X8 DIAGONAL STRUTS IN SAME HISTORICAL INTENT. NEW STEEL TUBE BRACING WILL BE INSTALLED ABOVE PER DETAILS.



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SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
**ROOF FRAMING PLAN**

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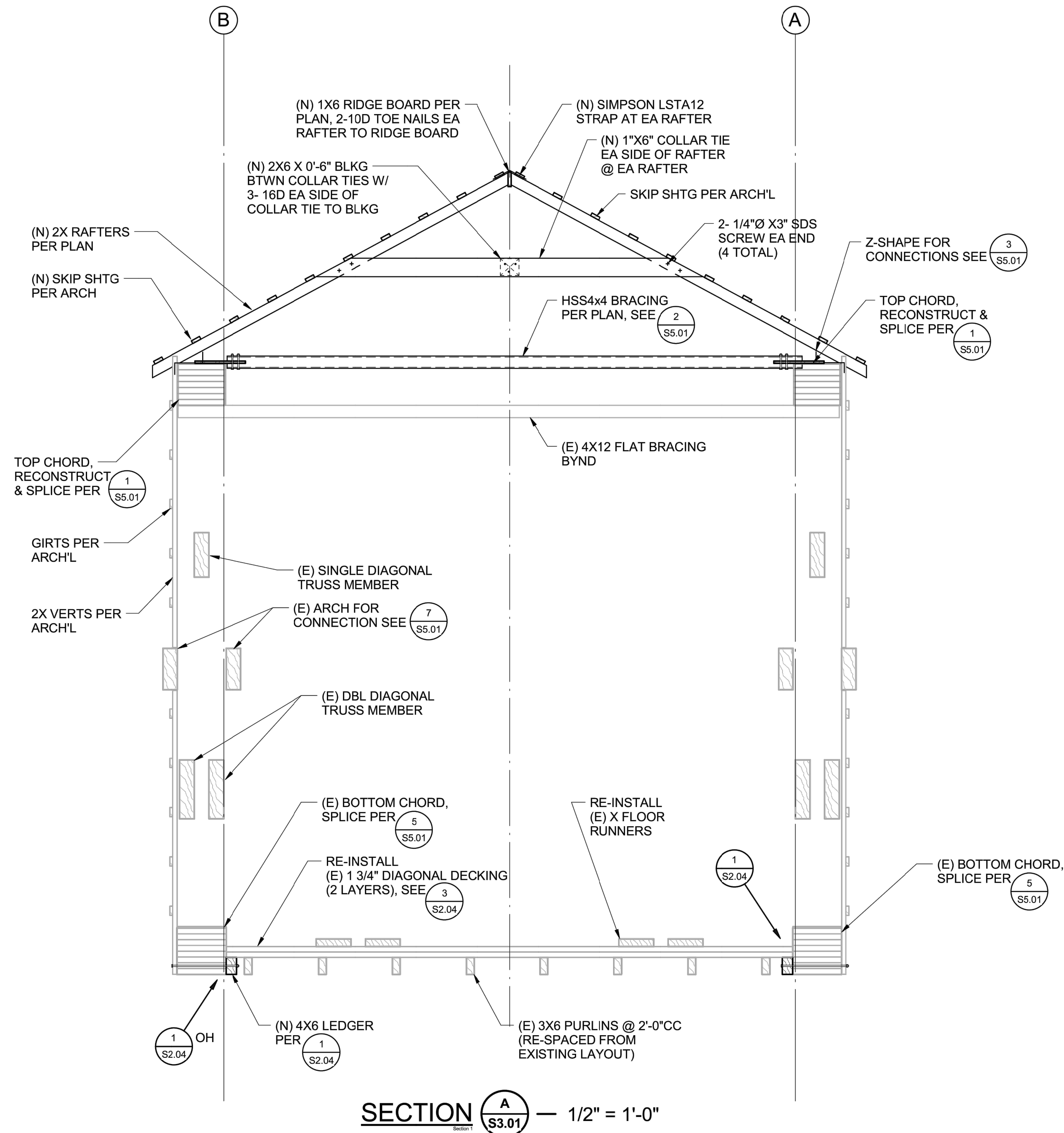


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30419.013

SHEET NO.  
**S2.05**

013 OF 030



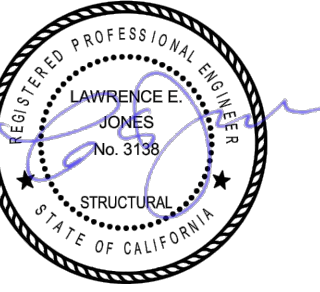
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SOUTH YUBA RIVER STATE PARK  
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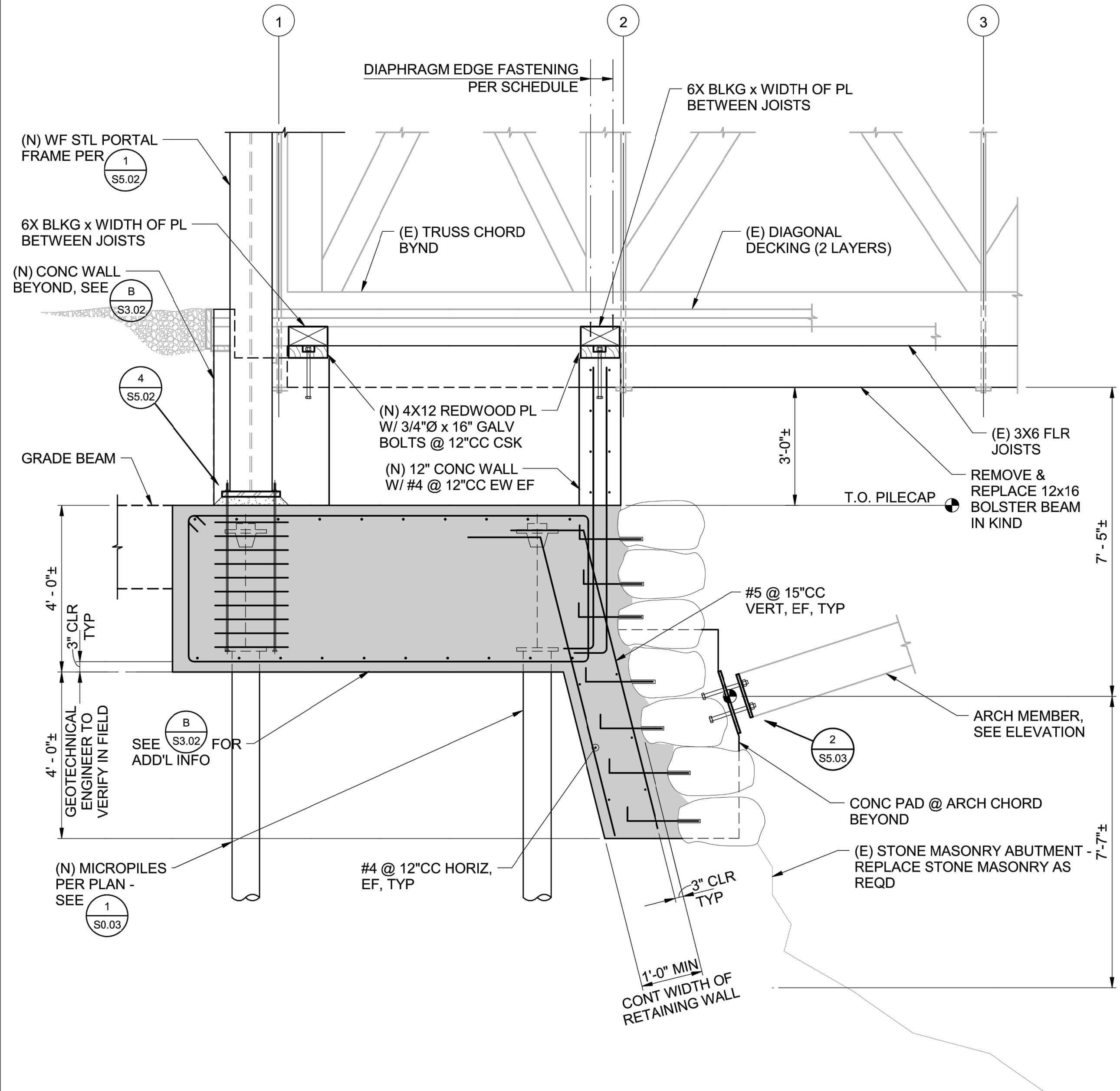
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DRAWING NO.  
 30419.014

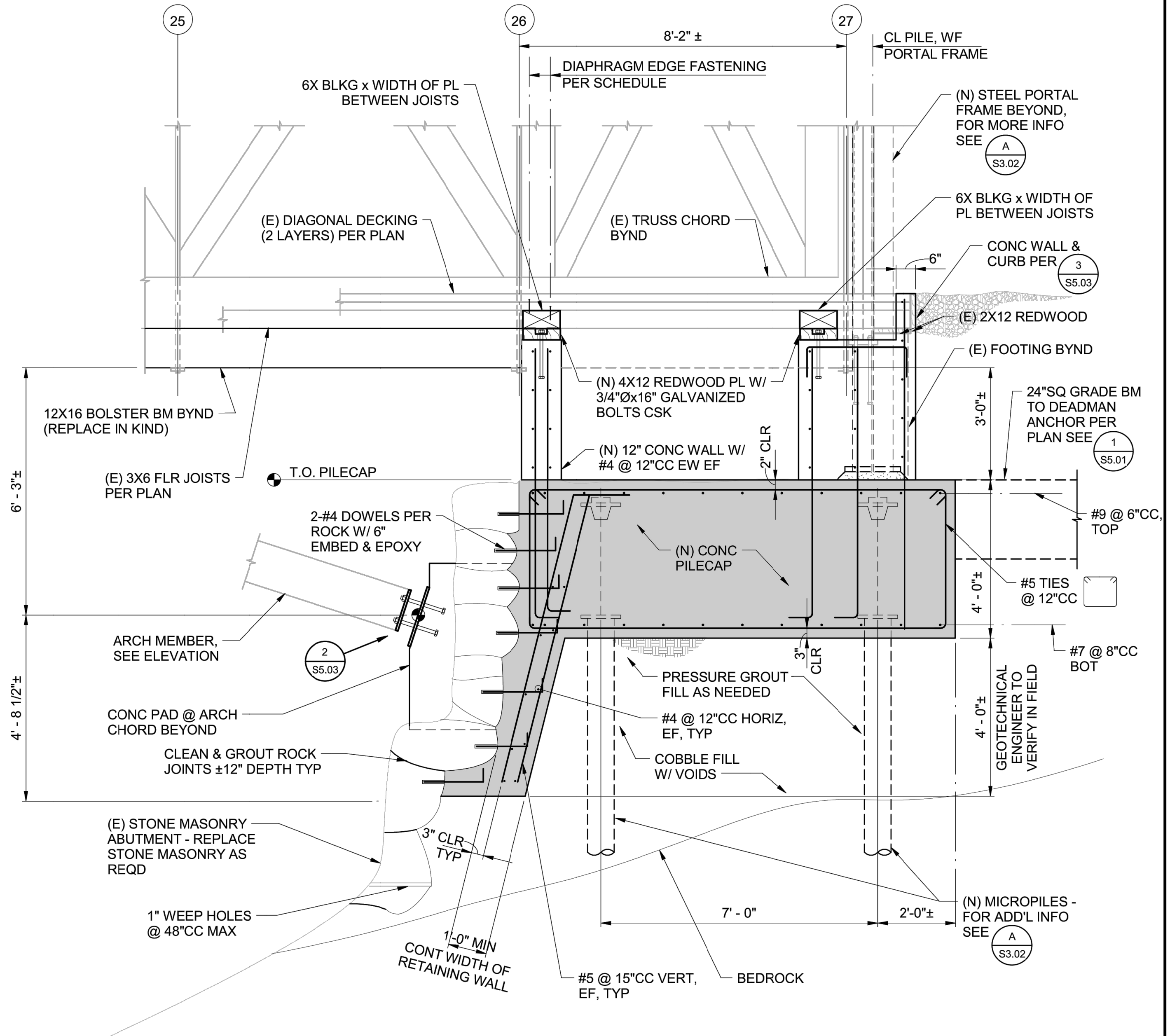
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 S3.01

014 OF 030

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**SOUTH ABUTMENT REINFORCING SECTION**  $\frac{1}{2}'' = 1'-0''$



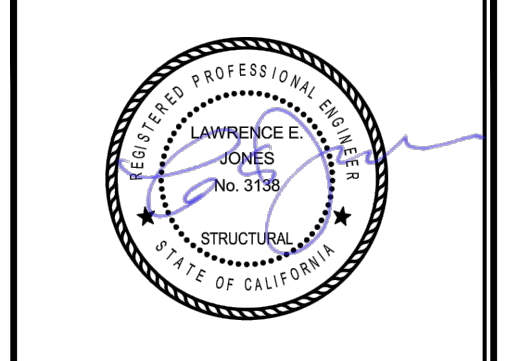
**NORTH ABUTMENT REINFORCING SECTION**  $\frac{1}{2}'' = 1'-0''$

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 CERTIFICATION # 18-025  
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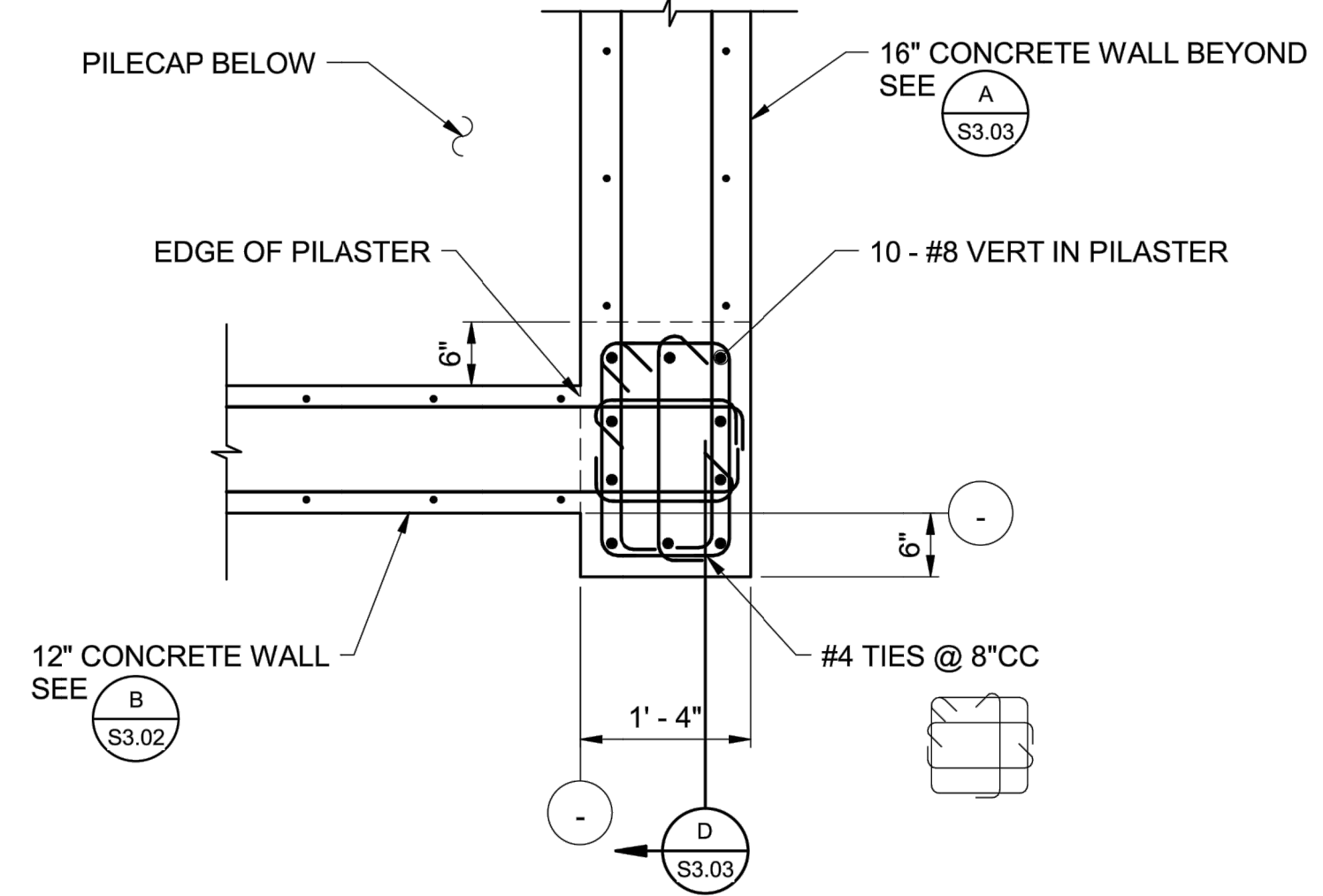
REVISIONS	
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SOUTH YUBA RIVER STATE PARK  
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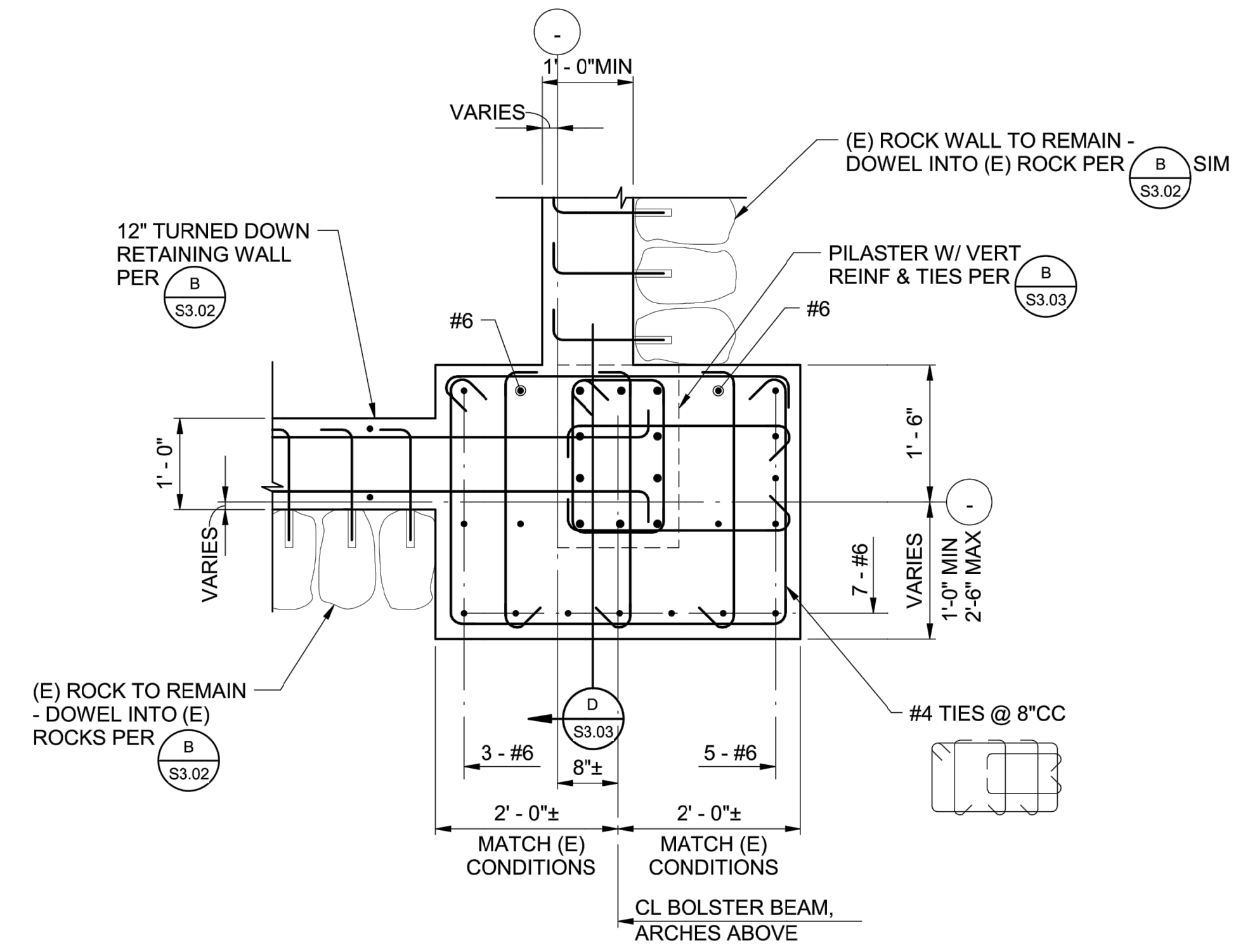


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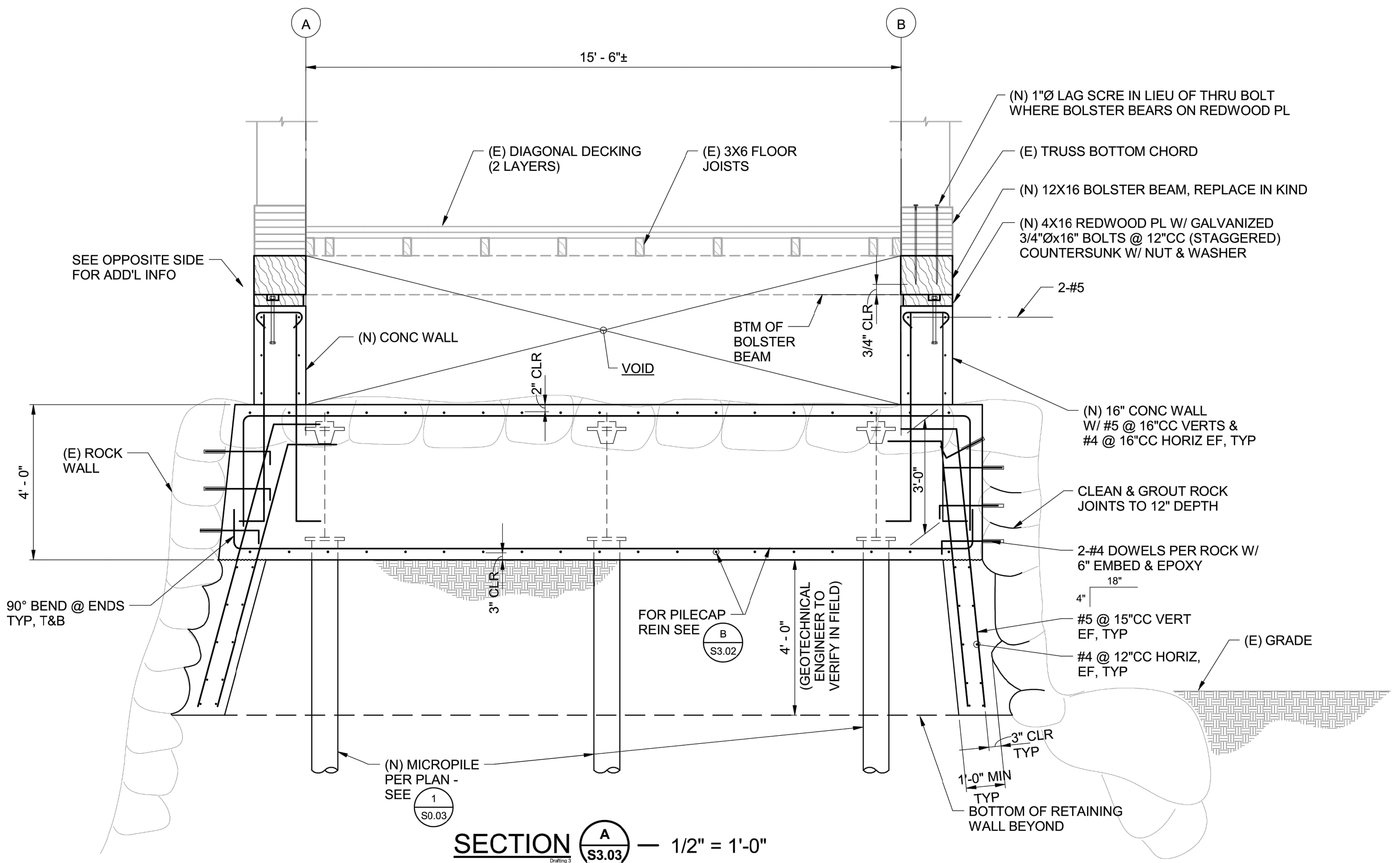
DRAWING NO.  
 30419.015  
 SHEET NO.  
**S3.02**  
 015 OF 030



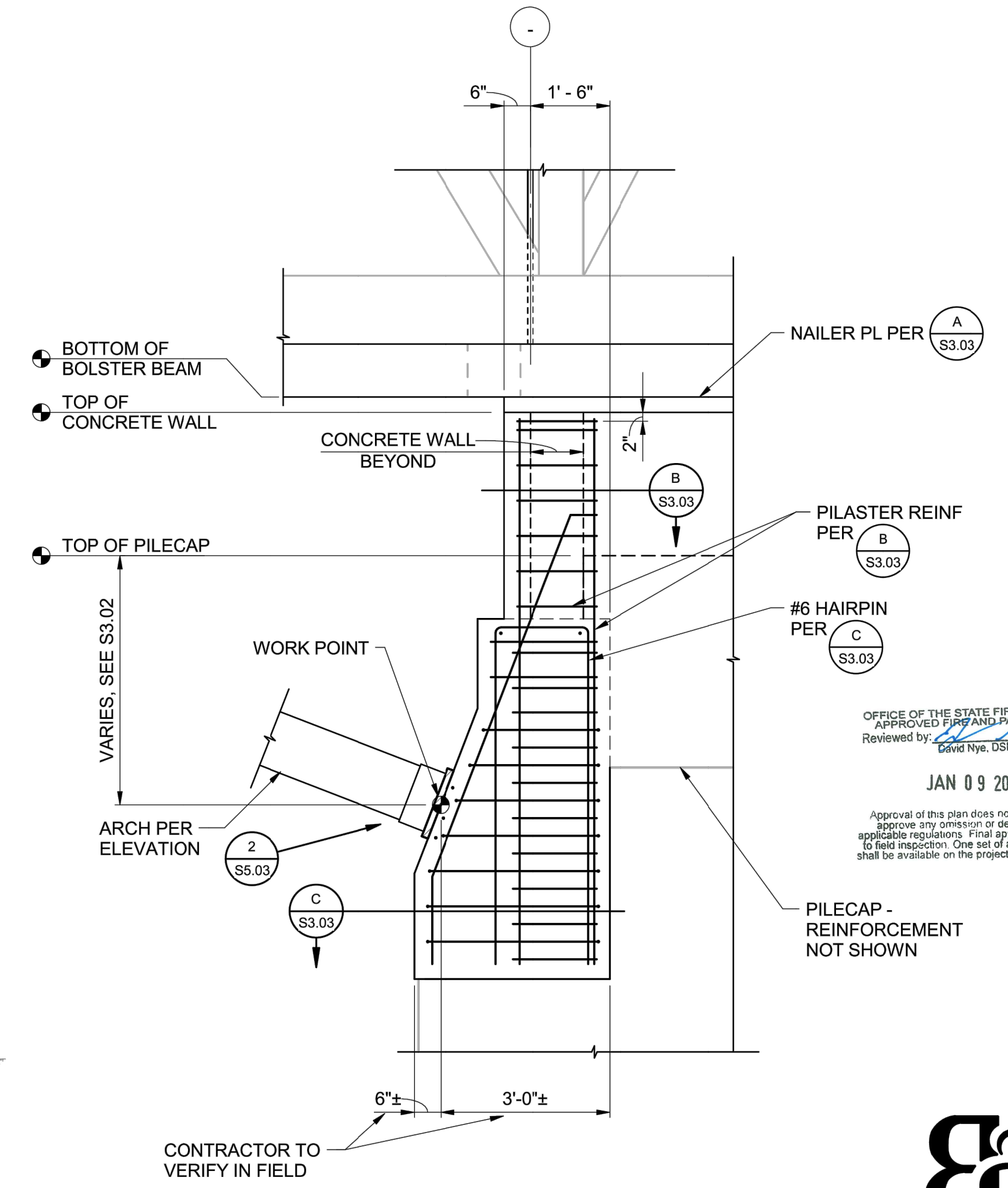
SECTION **B** S3.03 — 3/4" = 1'-0"



SECTION **C** S3.03 — 3/4" = 1'-0"



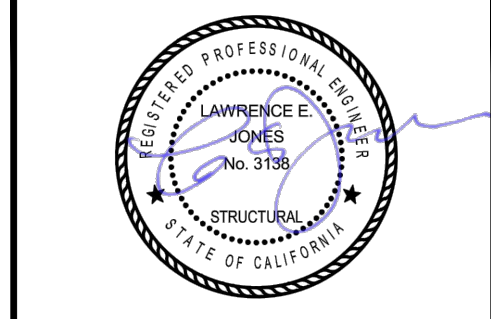
SECTION **A** S3.03 — 1/2" = 1'-0"



SECTION **D** S3.03 — 1/2" = 1'-0"



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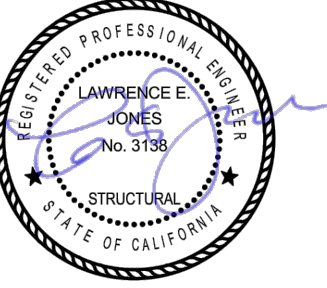
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**S3.03**

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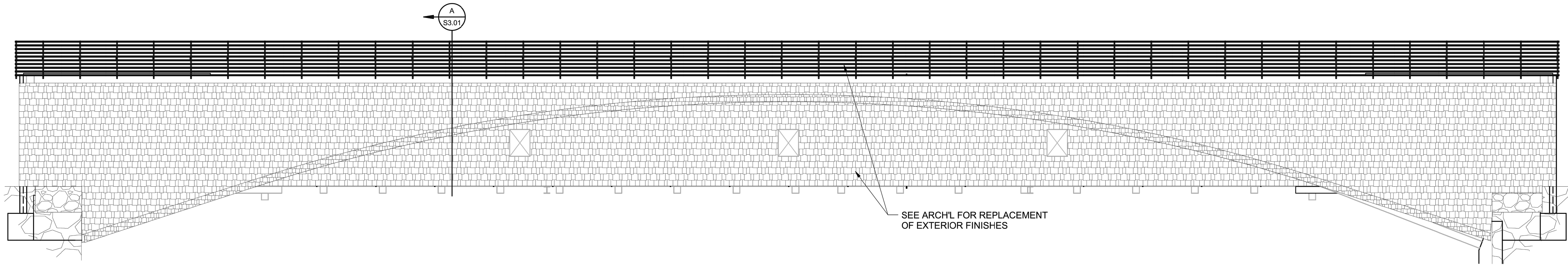
REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
TRUSS ELEVATIONS

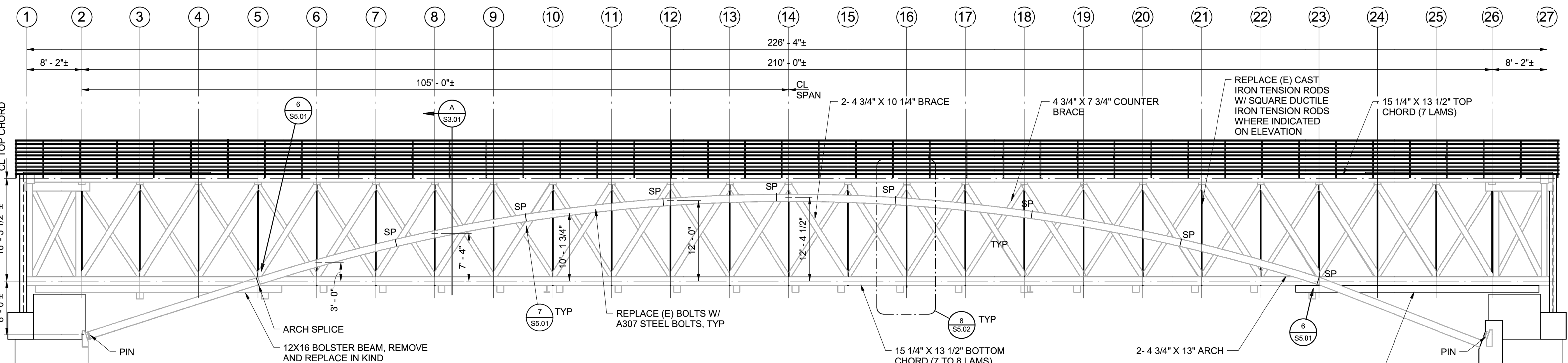
DRAWING NO.  
30419.017

SHEET NO.  
S4.01

017 OF 030



BRIDGE EXTERIOR ELEVATION  $\frac{1}{S4.01}$  — 1/8" = 1'-0"



NOTE:  
1. EXTERIOR FINISHES NOT SHOWN, SEE ARCH'L

BRIDGE STRUCTURE ELEVATION  $\frac{2}{S4.01}$  — 1/8" = 1'-0"

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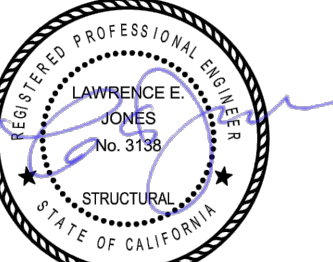
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TRUSS REPAIR ELEVATIONS

DRAWING NO.  
30419.018

SHEET NO.  
S4.02

018 OF 030

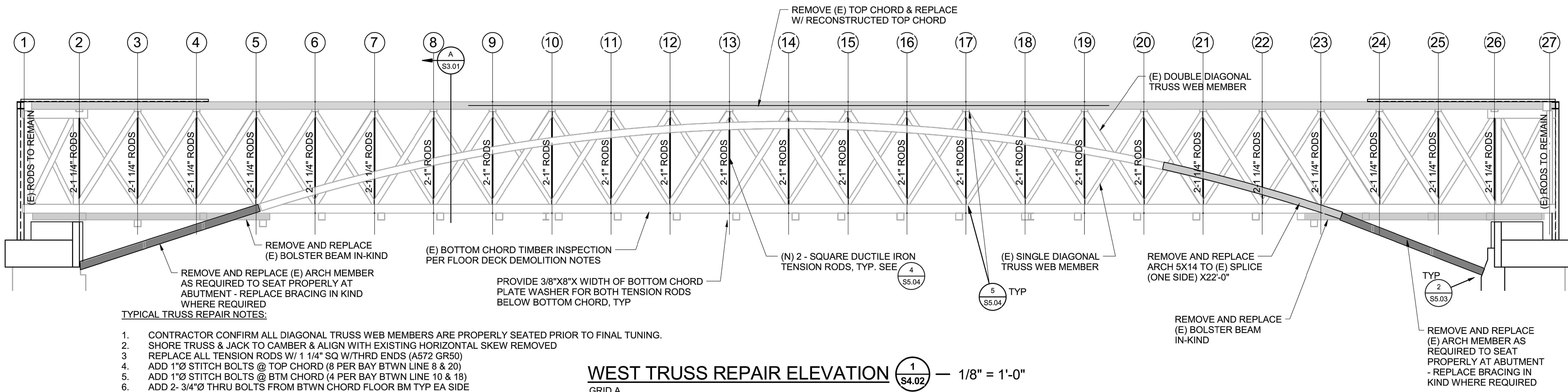


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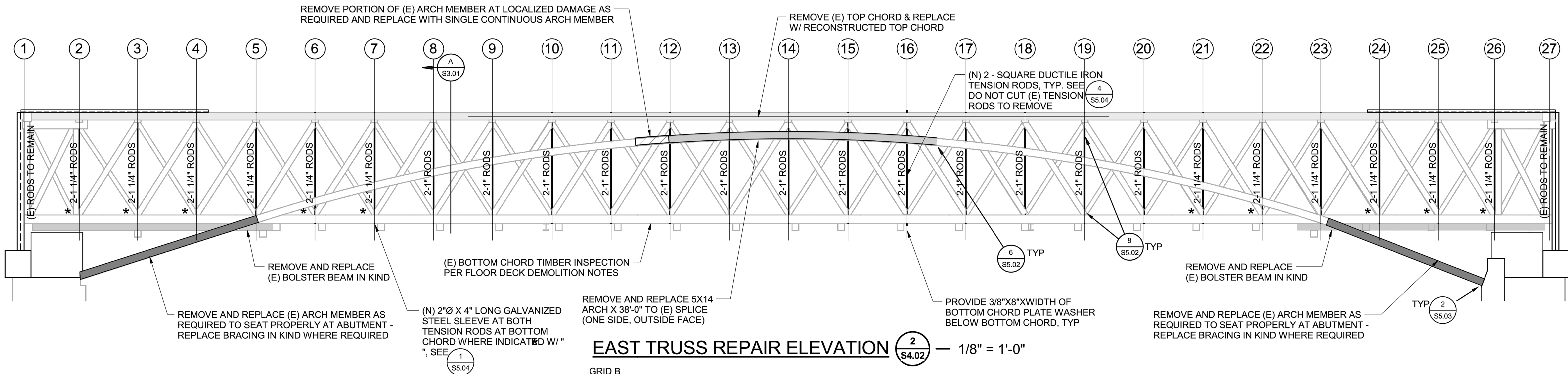
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**WEST TRUSS REPAIR ELEVATION**  $\frac{1}{S4.02}$  — 1/8" = 1'-0"  
GRID A



**EAST TRUSS REPAIR ELEVATION**  $\frac{2}{S4.02}$  — 1/8" = 1'-0"  
GRID B

**TYPICAL TRUSS REPAIR NOTES:**

- CONTRACTOR CONFIRM ALL DIAGONAL TRUSS WEB MEMBERS ARE PROPERLY SEATED PRIOR TO FINAL TUNING.
- SHORE TRUSS & JACK TO CAMBER & ALIGN WITH EXISTING HORIZONTAL SKEW REMOVED
- REPLACE ALL TENSION RODS W/ 1 1/4" SQ W/THRD ENDS (A572 GR50)
- ADD 1"Ø STITCH BOLTS @ TOP CHORD (8 PER BAY BTWN LINE 8 & 20)
- ADD 1"Ø STITCH BOLTS @ BTM CHORD (4 PER BAY BTWN LINE 10 & 18)
- ADD 2- 3/4"Ø THRU BOLTS FROM BTWN CHORD FLOOR BM TYP EA SIDE

**BRIDGE TUNING SEQUENCE NOTES:**

- CONTRACTOR SHALL ENGAGE A QUALIFIED BRIDGE TUNING CONSULTANT. CONSULTANT SHALL HAVE PREVIOUS EXPERIENCE TUNING BRIDGES OF SIMILAR TYPE AND COMPLEXITY. BRIDGE TUNING CONSULTANT AND CONTRACTOR TO SUBMIT PREVIOUS EXPERIENCE AND QUALIFICATIONS FOR REVIEW. CONTRACTOR TO PROVIDE TUNING SEQUENCE APPROACH SUBMITTAL TO ENGINEER FOR INITIAL TUNING APPROVAL PRIOR TO COMMENCING WITH TUNING WORK.
- CONTRACTOR SHALL MONITOR DEFLECTIONS AND CAMBERS DURING INITIAL TUNING, FINAL TUNING, AND DURING PROOF-LOADING. AT A MINIMUM, DEFLECTION MONITORING SHALL OCCUR AT THE SPAN QUARTER-POINTS AND MIDSPAN. CAMBER MONITORING SHALL OCCUR AT MIDSPAN. BRIDGE SHALL BE SURVEYED AFTER COMPLETION OF FINAL TUNING.

**INITIAL TUNING**

- PRESTRESSING AND INITIAL TUNING SHALL OCCUR DURING THE WARM SPRING, SUMMER, OR FALL MONTHS. (AVERAGE TEMPERATURE > 65 DEGREES FAHRENHEIT)
- RAISE AND SHORE BRIDGE STRUCTURE ±6 INCHES ABOVE EXISTING CONDITION TO +564.5'
- RELEASE ARCH CHORD BEARING FROM ABUTMENT.
- PRIOR TO TUNING, TIGHTEN TENSION RODS TO SNUG TIGHT AND INSTALL EPOXY SHIMMING PER TIMBER INSPECTOR SHALL INDICATE REQUIRED SHIMMING LOCATIONS TO ENSURE PROPER BEARING OF ALL COMPRESSION DIAGONALS AT BEARING SEAT.
- TIGHTEN BRIDGE VERTICAL TENSION RODS IN PAIRS STARTING SIMULTANEOUSLY FROM EACH END BAY WORKING TOWARDS MIDSPAN FROM BOTH ENDS AT BOTH TRUSSES. CONFIRM COMPRESSION DIAGONALS HAVE FULL BEARING/SEATING AT JOINTS PRIOR TO TENSIONING. TIGHTEN NUTS AT VERTICAL TENSION ROD TO SNUG TIGHT PLUS HALF-TURN.
- HAMMER SOUND PAIRS OF RODS TO JUDGE TENSION AND COMPRESSION DIAGONALS TO JUDGE SEATING AND ADJUST AS NECESSARY.
- WAIT FOURTEEN DAYS PRIOR TO FINAL TUNING.

**FINAL TUNING**

- HAMMER SOUND PAIRS OF RODS TO JUDGE TENSION AND COMPRESSION DIAGONALS TO JUDGE SEATING AND ADJUST AS NECESSARY.
- RELEASE SHORING (KEEPING SHORING INSTALLED) STARTING AT MIDSPAN WORKING SIMULTANEOUSLY OUTWARDS TOWARD ABUTMENTS
- MONITOR DEFLECTION OF BRIDGE TO CONFIRM INITIAL CAMBER HAS BEEN RELEASED.
- ADJUST ARCH CHORD BEARING SEAT TO ALLOW CHORD BEARING ENGAGEMENT AT LIVE LOADING. SEE  $\frac{2}{S5.03}$

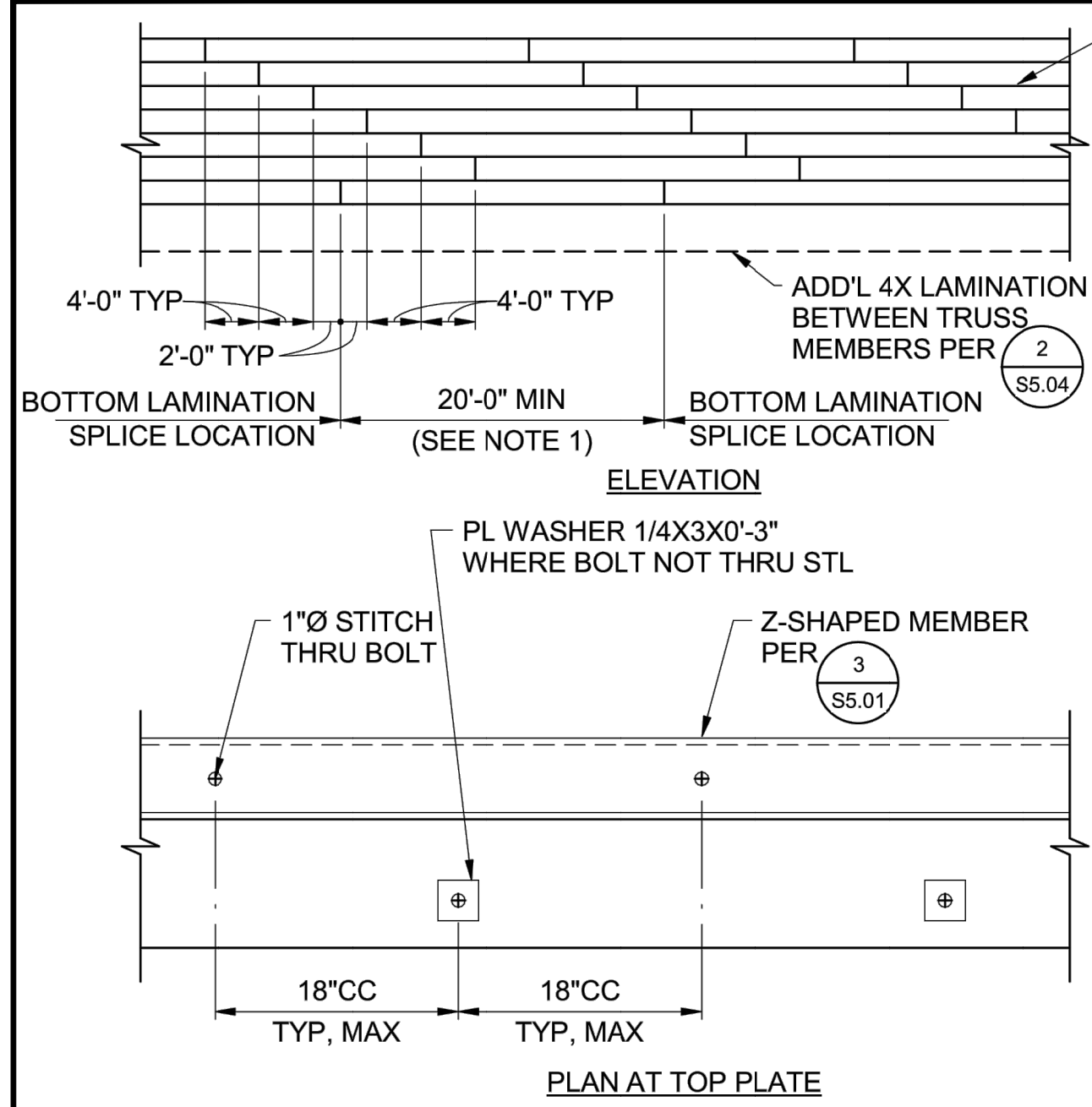
**FUTURE MAINTENANCE**

- CONTRACTOR TO PROOF LOAD BRIDGE WITH MOVING 7500 POUND LOAD OVER LENGTH OF BRIDGE A MINIMUM OF FIVE TIMES. AS REQUIRED, REPEAT TUNING PROCESS STARTING AT STEP 4. MONITOR DEFLECTION DURING PROOF LOADING PER STEP 2.
  - CONFIRM FINAL TUNING WITH ENGINEER PRIOR TO SHORING REMOVAL.
  - REMOVE ALL SHORING AND TEMPORARY STABILIZATION STEEL TOWERS AND GUYS.
- FUTURE TUNING**
- BRIDGE TUNING CONSULTANT SHALL DEVELOP FUTURE BRIDGE MAINTENANCE TUNING PROGRAM AND SCHEDULE. THE FIRST SCHEDULED TUNING AFTER THE FINAL TUNING SHALL OCCUR WITHIN THE FIRST SIX MONTHS AFTER THE FINAL TUNING. FUTURE TUNING SHALL OCCUR EVERY TWO YEARS THEREAFTER.

**DESIGN PHILOSOPHY**

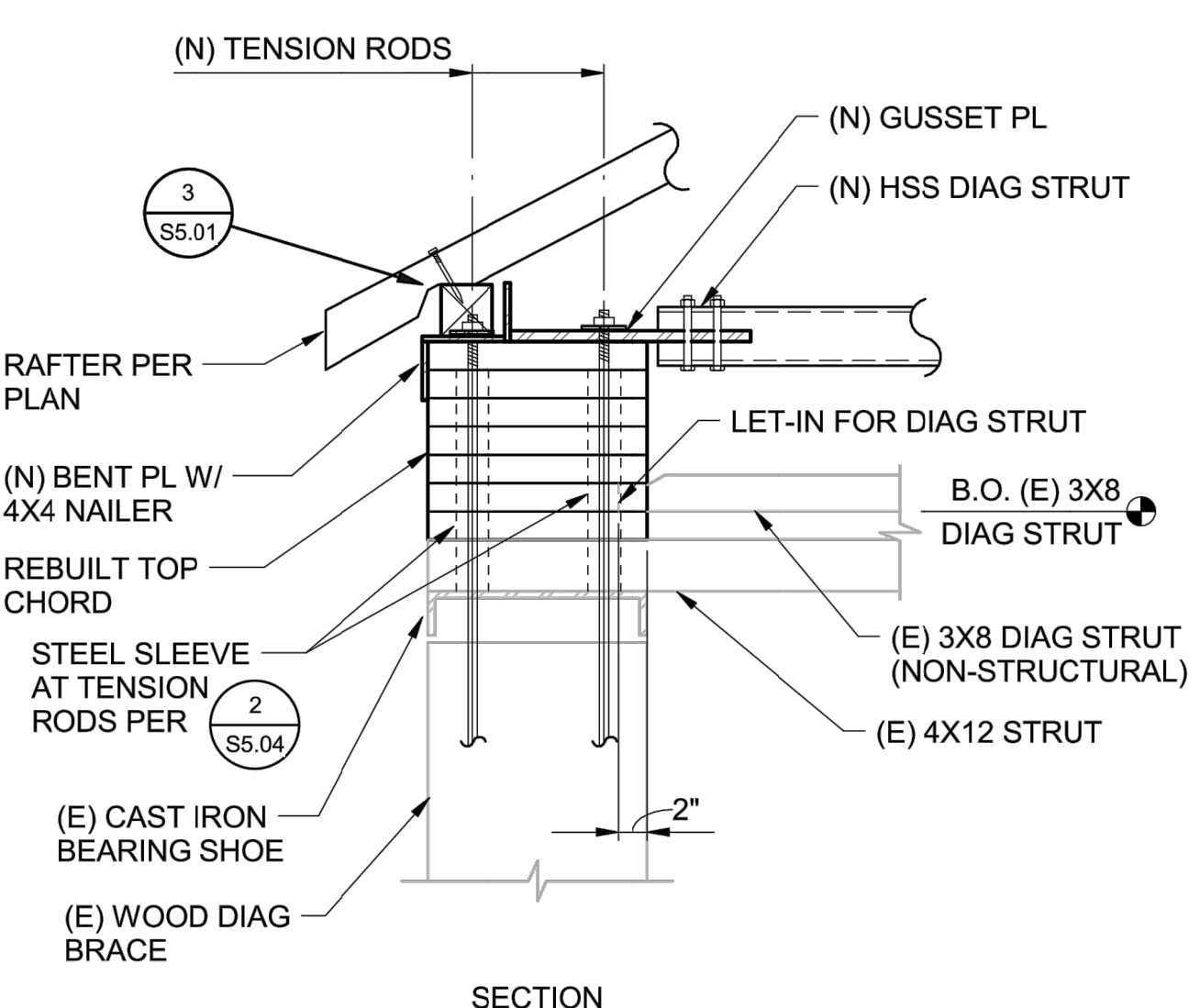
TRUSS\*\* WAS DESIGNED TO TAKE FULL DEAD LOAD. ARCH\*\* WAS DESIGNED TO ENGAGE AT LIVE LOAD CONDITIONS AND FOR FUTURE TUNING.  
\*TRUSS IS DEFINED TO INCLUDE LENGTH OF PORTION OF ARCH ABOVE BOTTOM CHORD.  
\*\* ARCH INCLUDE FULL LENGTH OF ARCH MEMBERS FROM BUTTRESS TO BUTTRESS.

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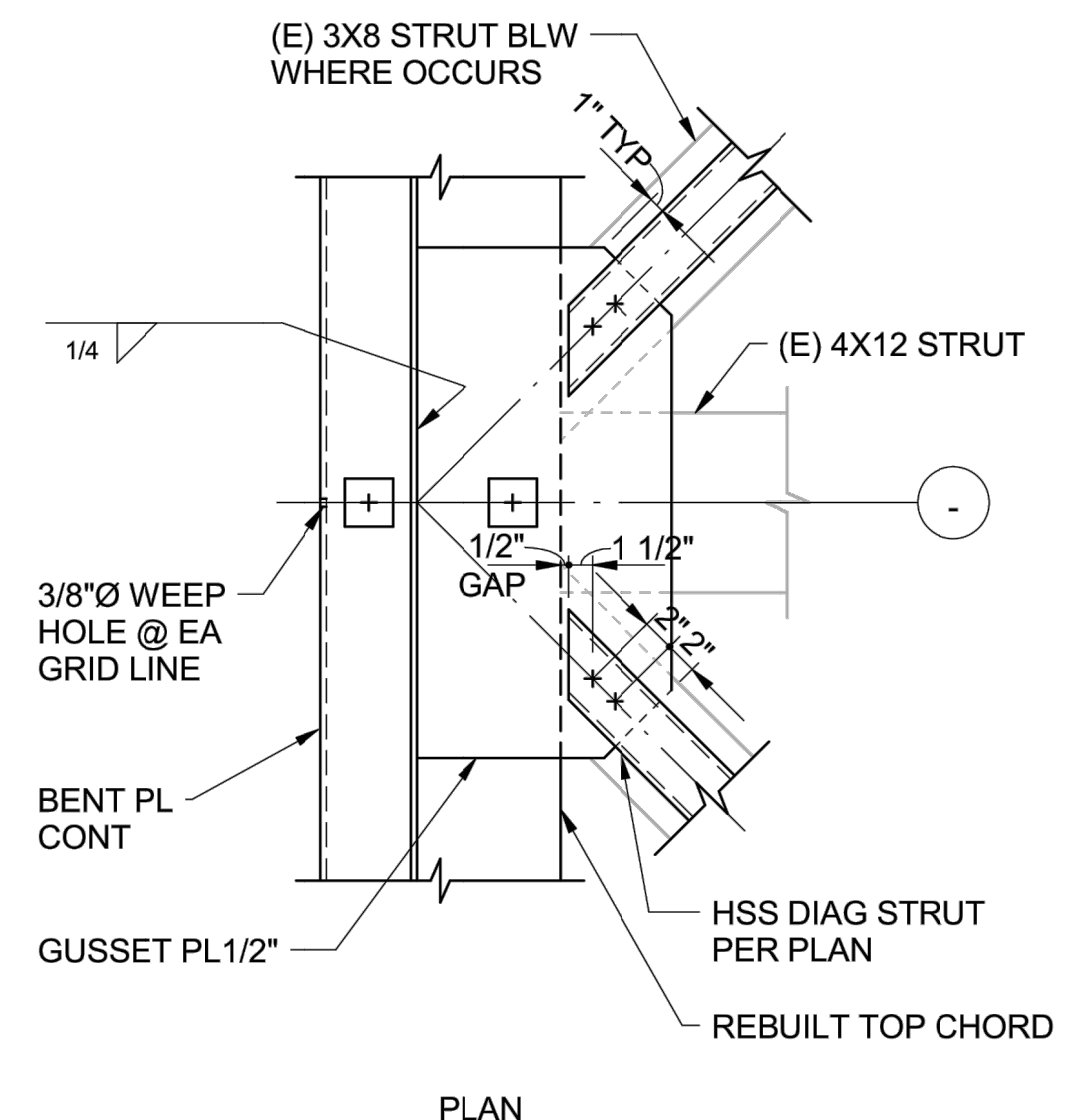


DETAIL 1 S5.01 — NOT TO SCALE

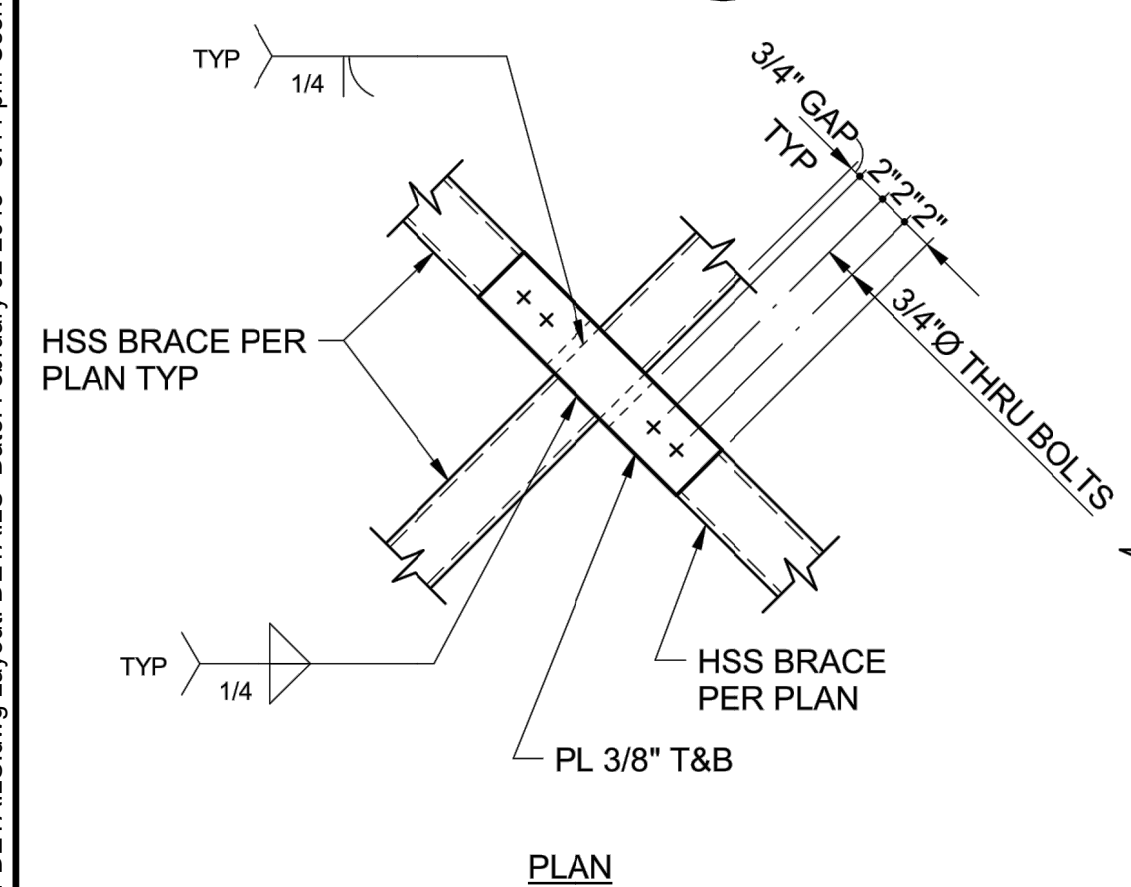
NOTES:  
 1. CONTRACTOR TO INVENTORY (E) TOP CHORD LAMINATIONS TO DETERMINE OPTIMUM LAMINATION LENGTH TO ALLOW FOR GREATEST USE OF (E) BOARDS.  
 2. GLUE EACH LAMINATION TOGETHER WITH SLOW SET CONSTRUCTION ADHESIVE. THE LAMINATION SHALL BE HELD STRAIGHT AND TRUE DURING CONSTRUCTION PROCESS. CONTRACTOR SHALL TAKE CARE TO BEGIN LAYUP WITH STRAIGHT AND TRUE BOARDS TO ENSURE PROPER STRAIGHTNESS AND TRUENESS IN COMPLETE LAMINATED TOP CHORDS. THE INITIAL THREE LAMINATIONS SHALL BE STRAIGHT AND TRUE AND BE ABLE TO FIT TOGETHER SNUGLY UNAIDED BY CLAMPS AND/OR SCREWS. INITIAL LAMINATIONS CAN BE USED TO BRACE LATER LAMINATIONS FOR STRAIGHTNESS. EXISTING BOARDS THAT ARE OUTSIDE OF ACCEPTABLE TOLERANCES SHALL NOT BE USED. SQUARE CUT END OF LAMINATION AND PLACE WITH SNUG FIT END TO END TO ENSURE PROPER END BEARING. PROVIDE STEEL SHIM PLATES OR EPOXY FILLER AS REQUIRED FOR SNUG FIT.  
 3. CONTRACTOR SHALL SUBMIT SHOP SHOP DRAWING FOR TOP CHORD ASSEMBLY SHOWING BOARD LENGTHS, APPROXIMATE NEW AND EXISTING LAMINATION LOCATIONS, AND ASSEMBLY SEQUENCE AND METHOD.



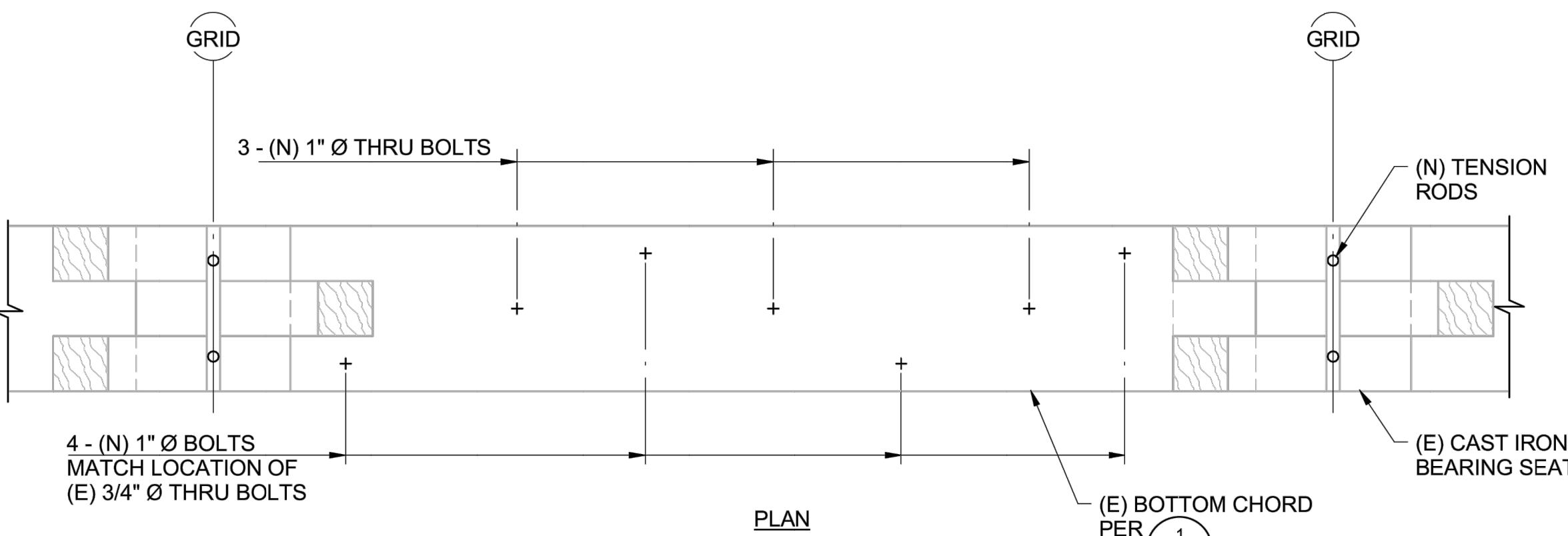
DETAIL 2 S5.01 — 1" = 1'-0"



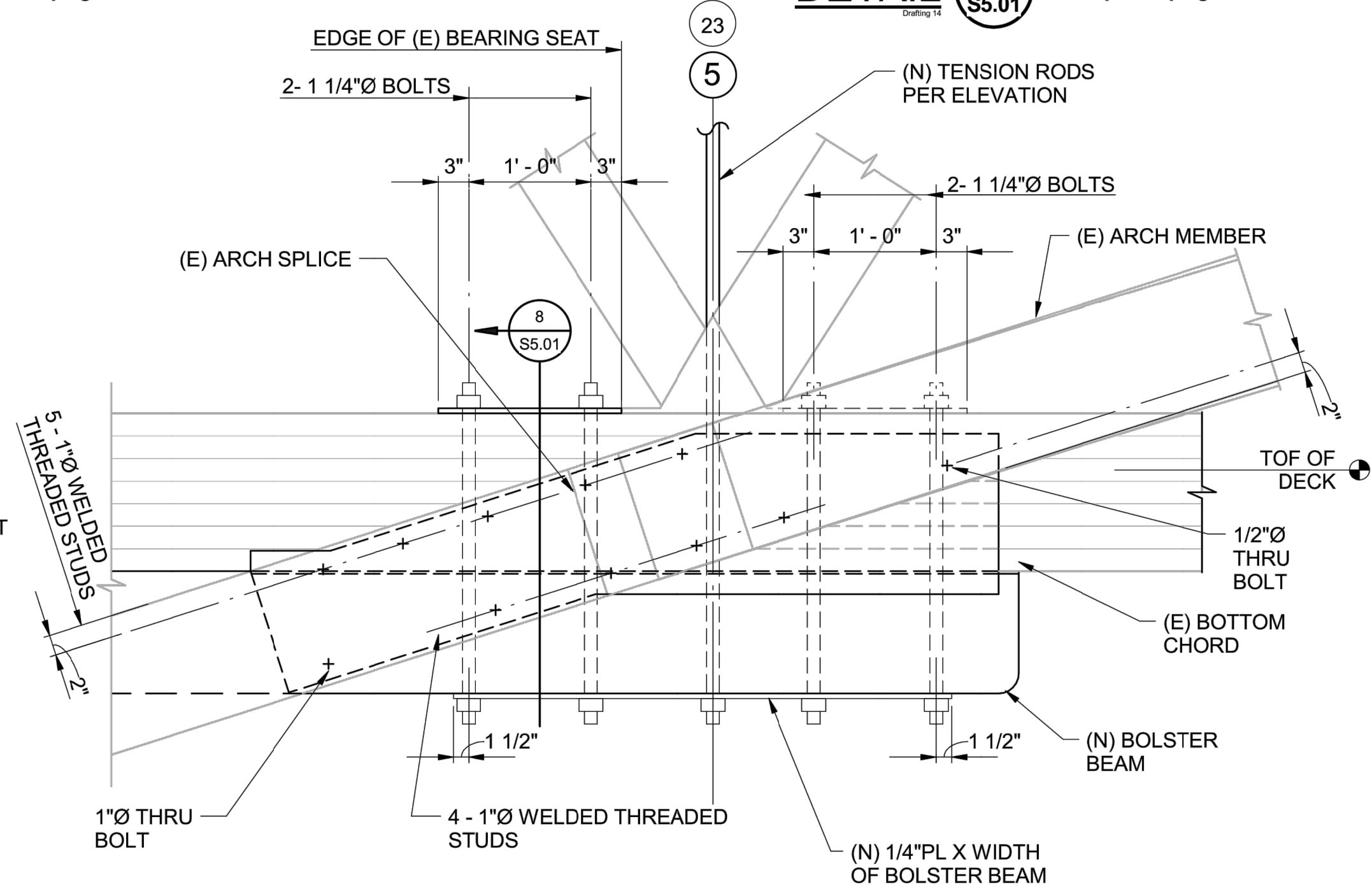
DETAIL 3 S5.01 — 1" = 1'-0"



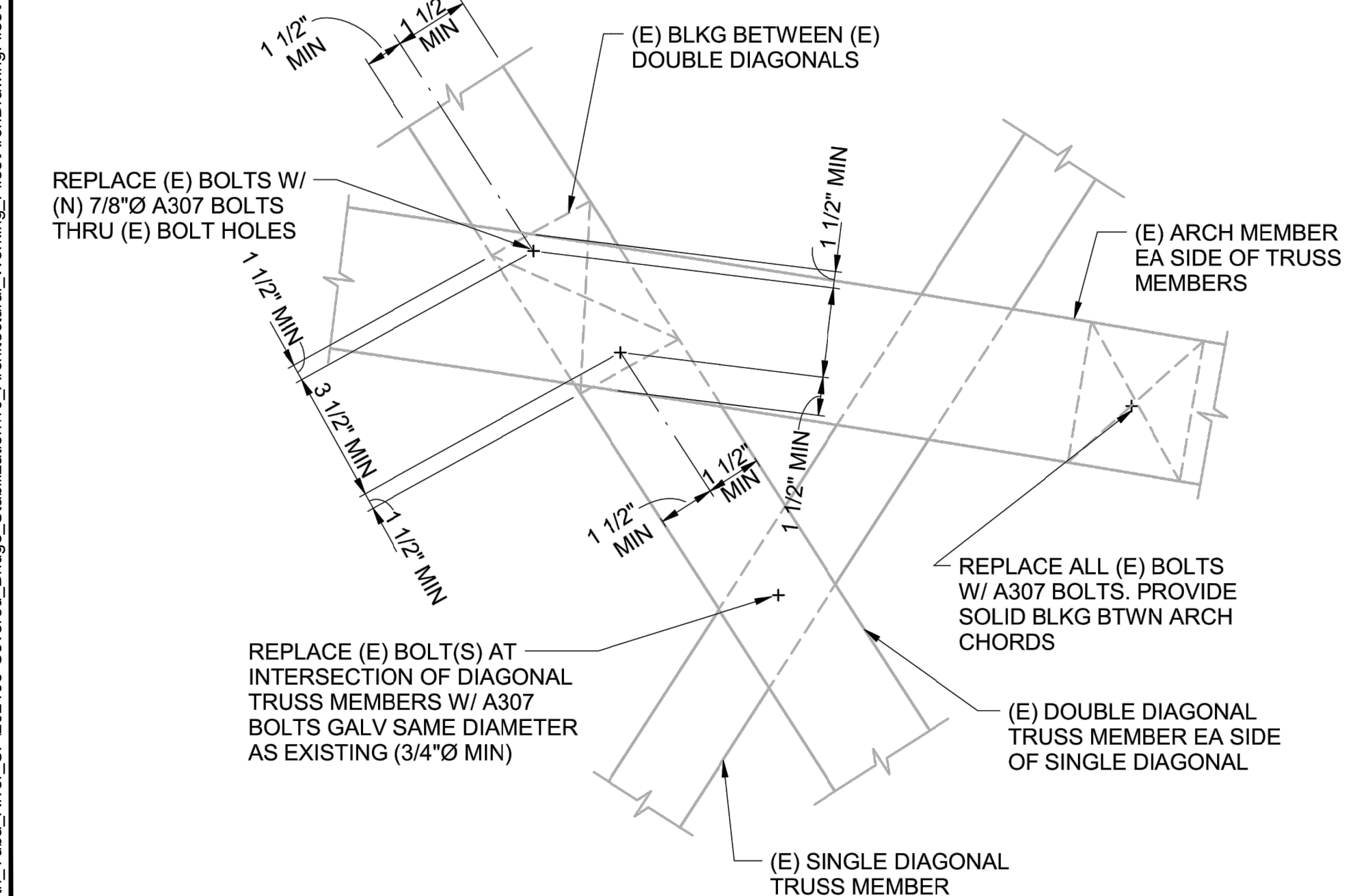
DETAIL 4 S5.01 — 1" = 1'-0"



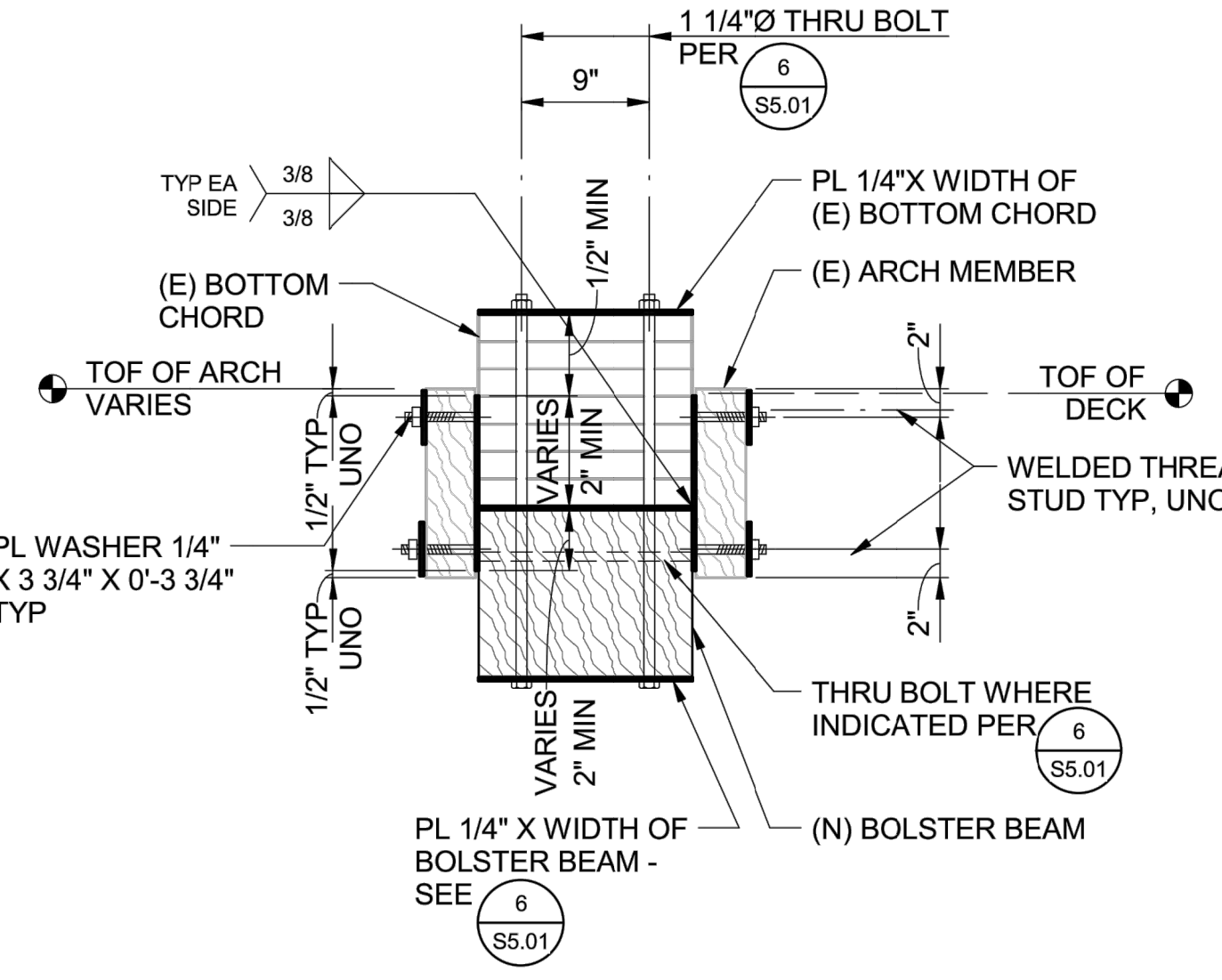
DETAIL 5 S5.01 — 1" = 1'-0"



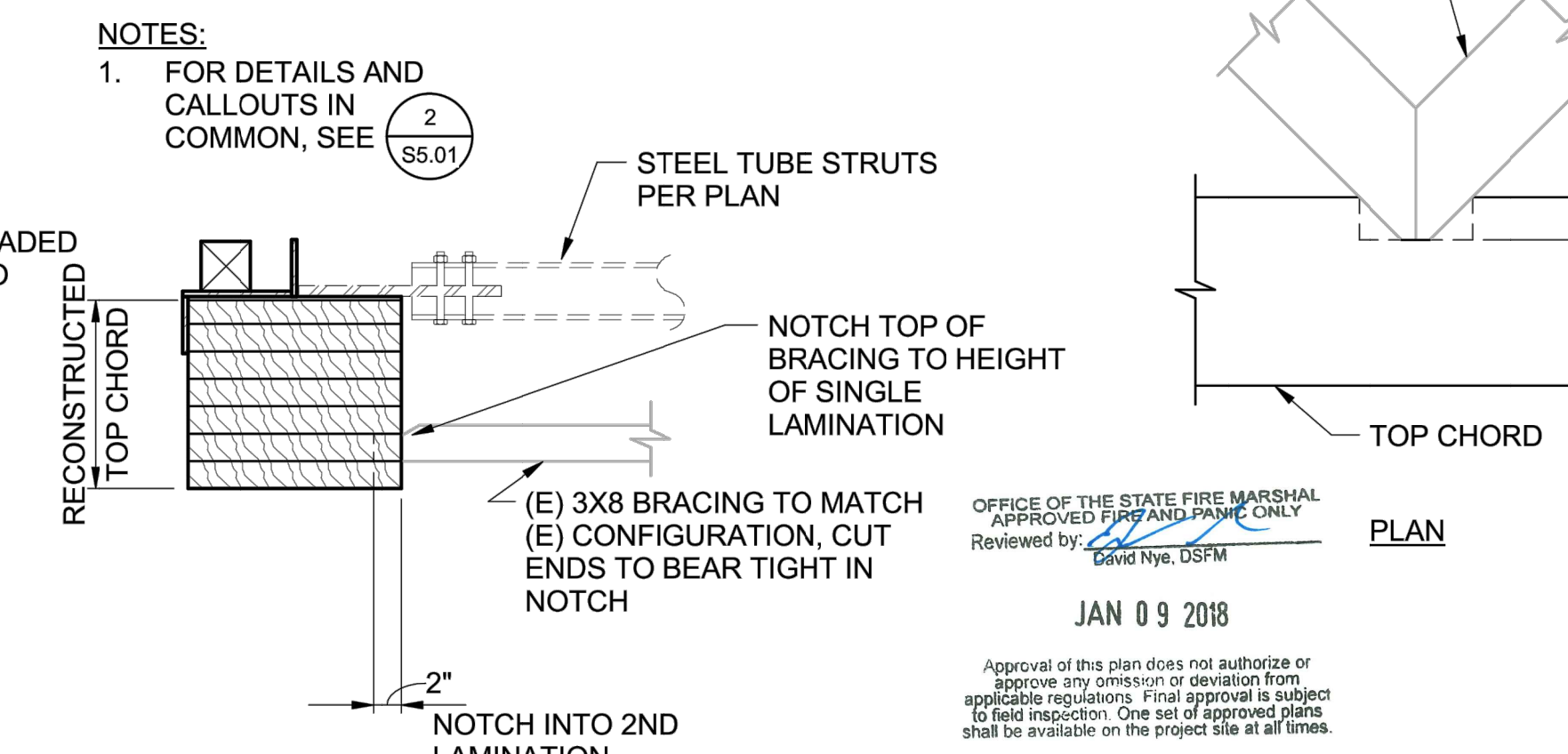
DETAIL 6 S5.01 — 1" = 1'-0"



DETAIL 7 S5.01 — 1" = 1'-0"



DETAIL 8 S5.01 — 1" = 1'-0"



DETAIL 9 S5.01 — 1" = 1'-0"

NOTES:  
 1. FOR DETAILS AND CALLOUTS IN COMMON, SEE 2

OFFICE OF THE STATE FIRE MARSHAL  
 APPROVED FIRE AND PHONE ONLY  
 Reviewed by: David Nye, DSPM  
 JAN 09 2018  
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ACQUISITION & DEVELOPMENT DIVISION  
 One Capitol Mall  
 Sacramento, CA  
 95814-3229



CALIFORNIA STATE FIRE MARSHAL - APPROVED  
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 Reviewed by: Date

DPR ACCESS COMPLIANCE REVIEW  
 ACCESSIBILITY SECTION  
 CERTIFICATION # 18-015  
 Reviewed by: Date

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED:  
 DRAWN:  
 CHECKED:  
 DATE: Issue Date

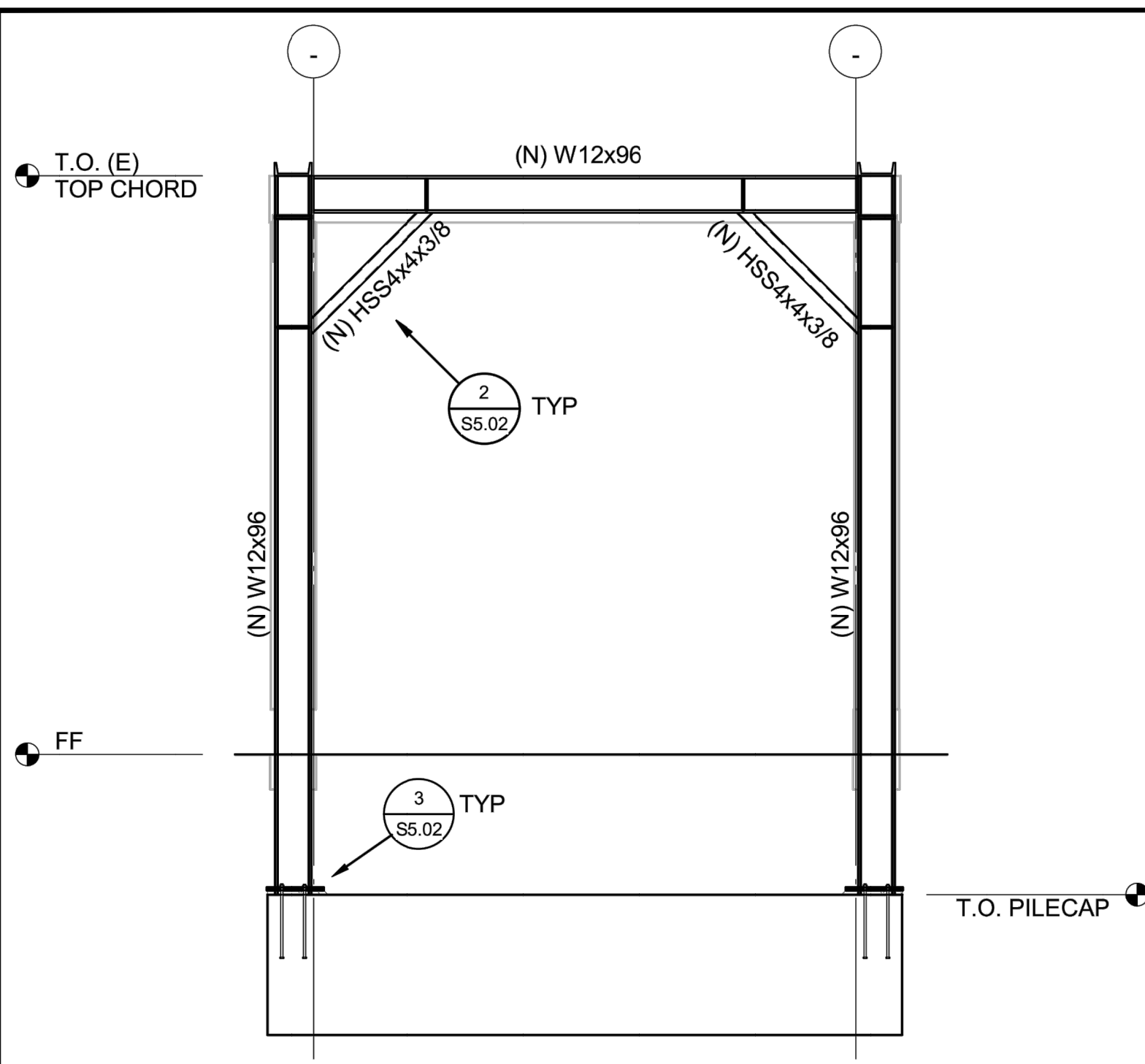
REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
 HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
 DETAILS

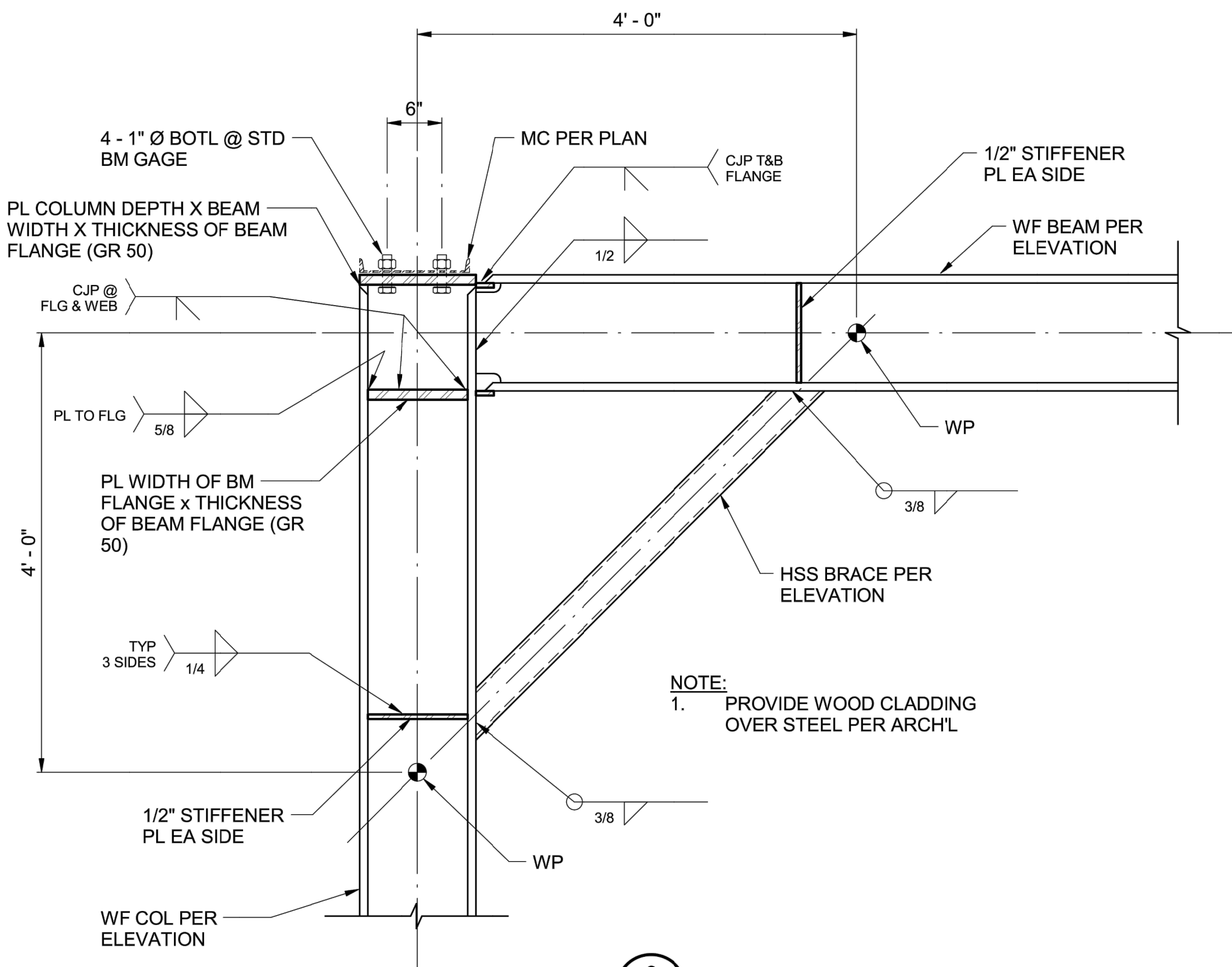
DRAWING NO.  
 30419.019

SHEET NO.  
 S5.01

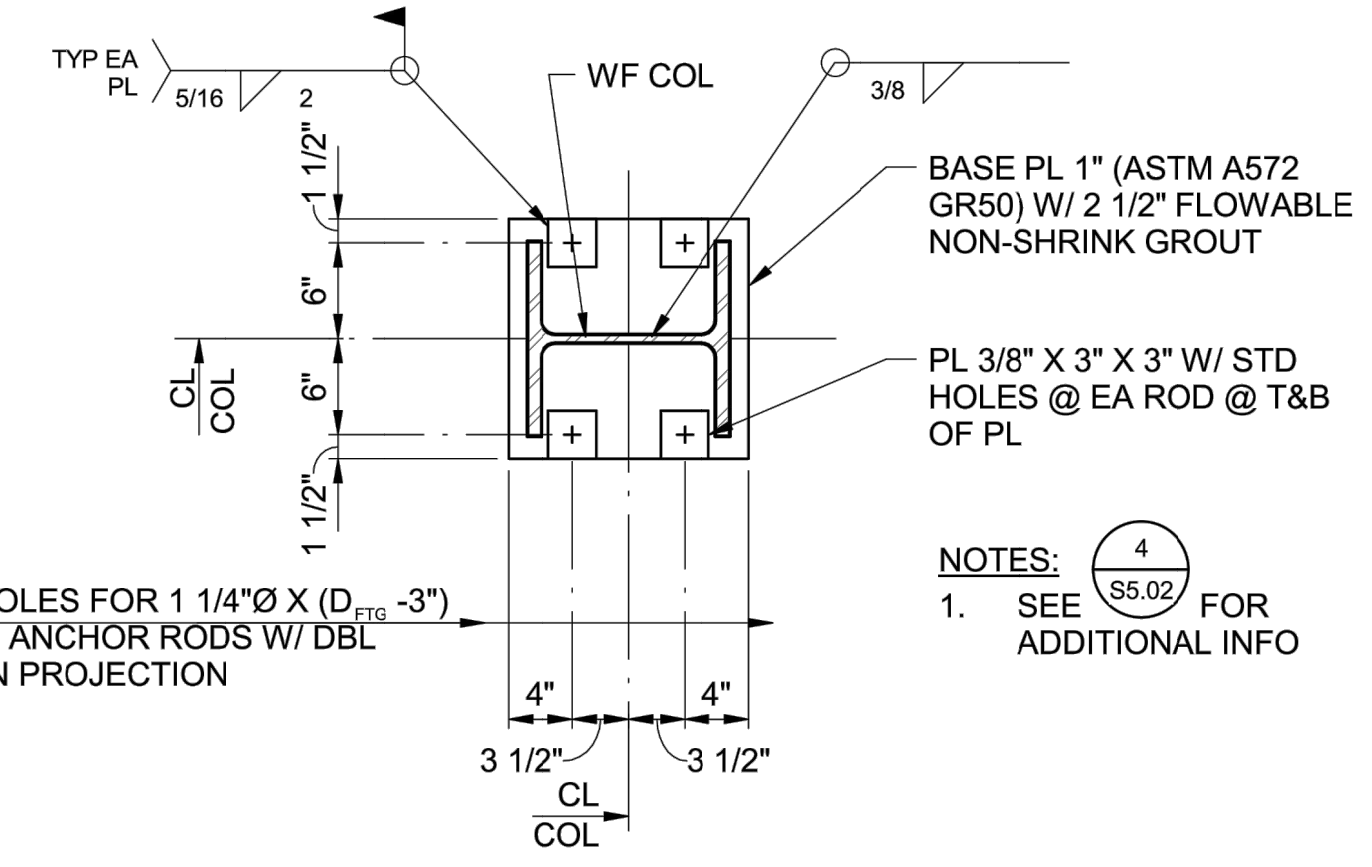
019 OF 030



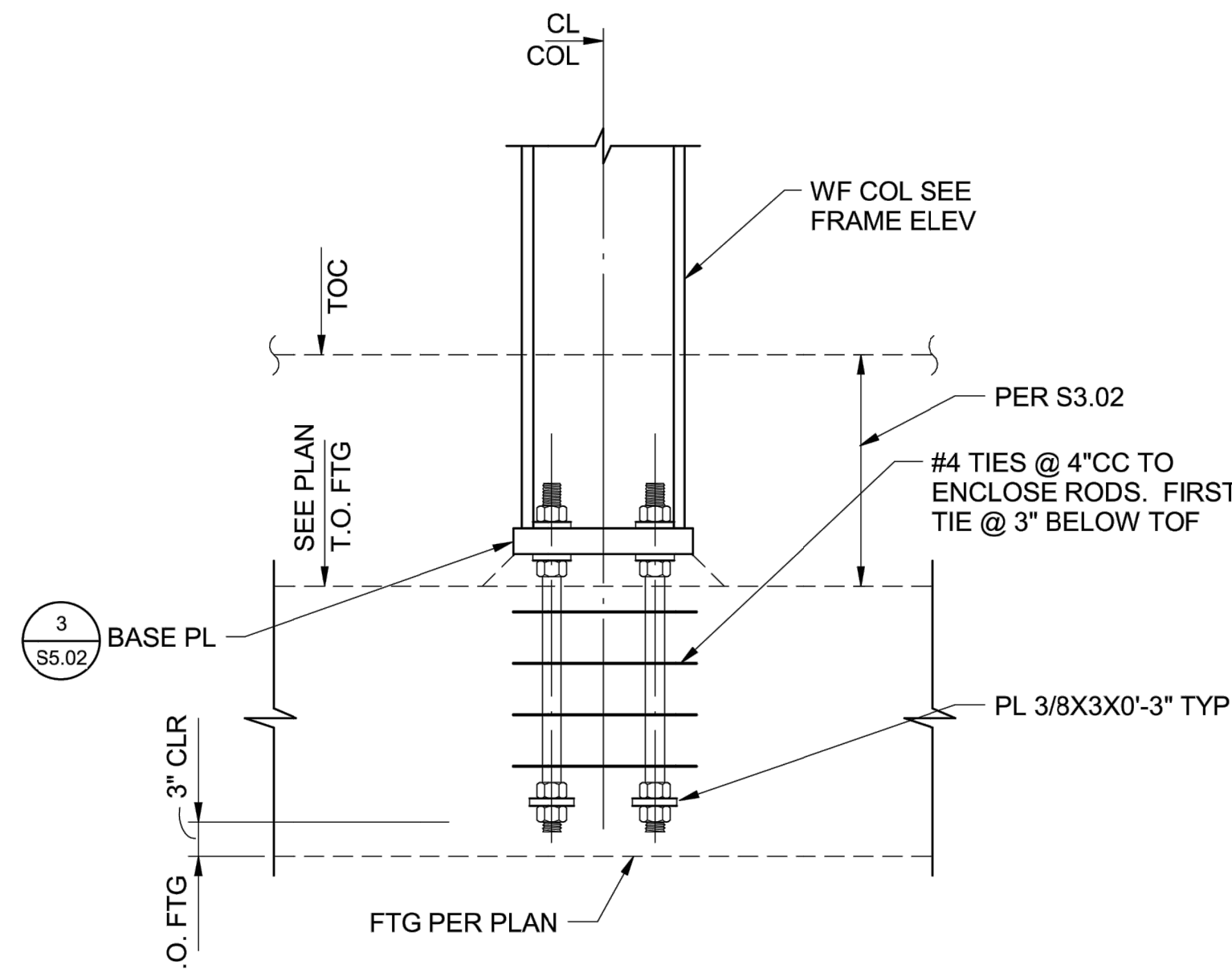
ELEVATION 1 - 1/4" = 1'-0"



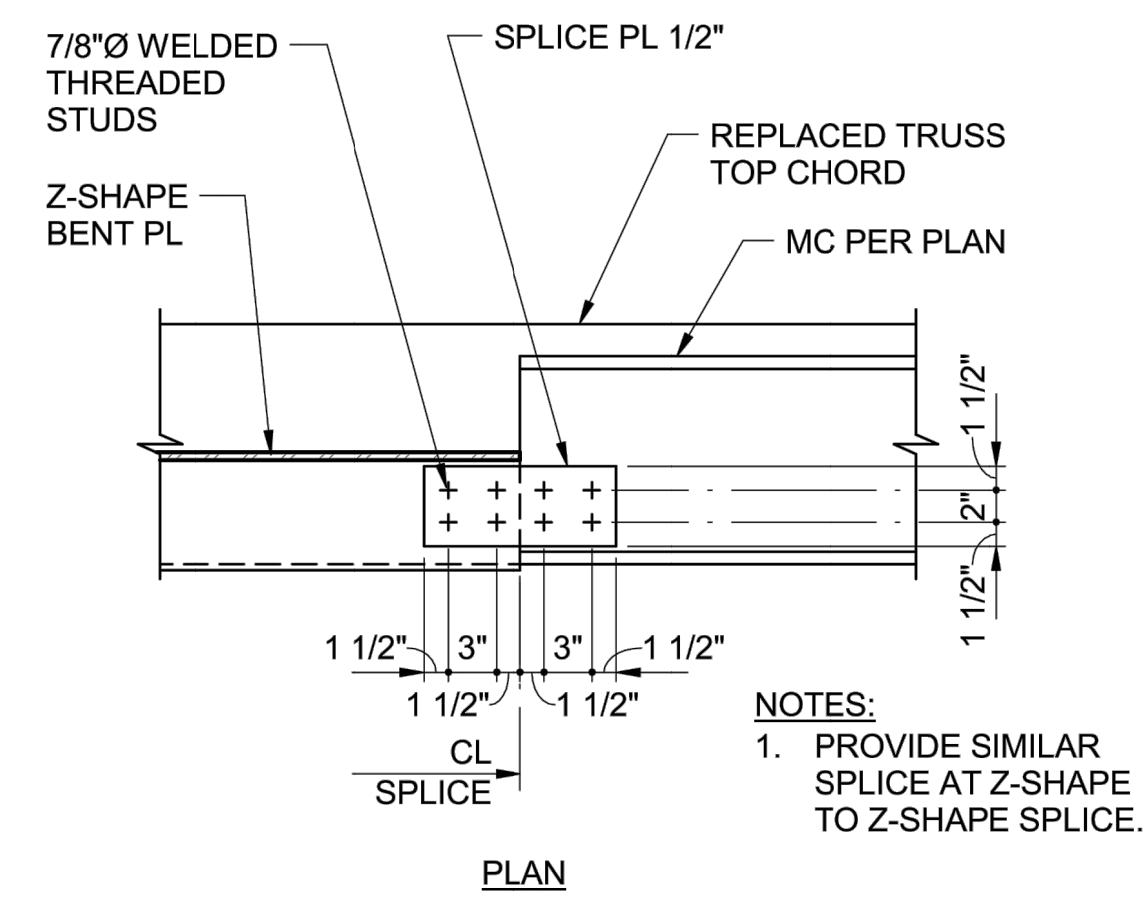
DETAIL 2 - 1" = 1'-0"



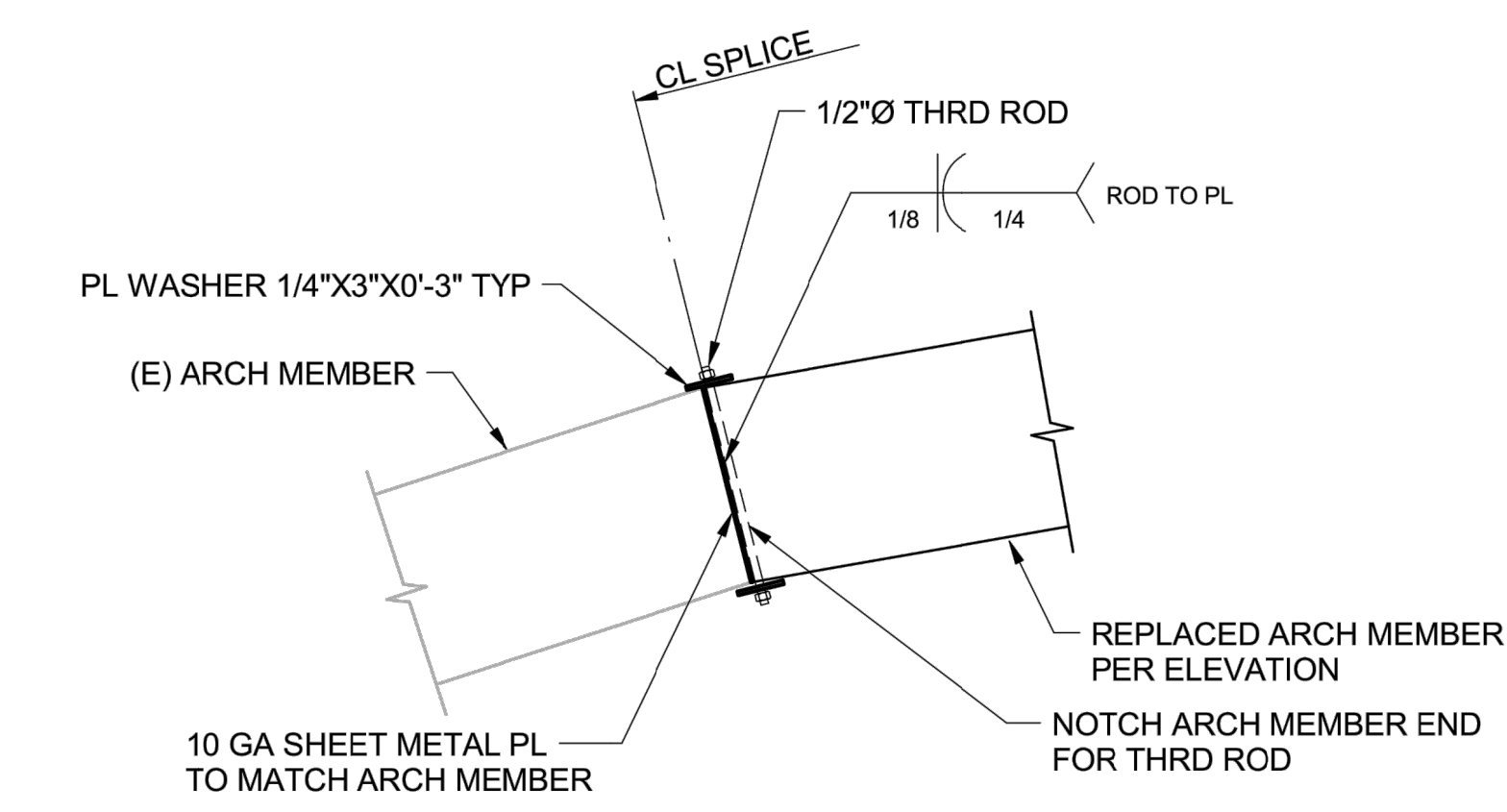
DETAIL 3 - 1" = 1'-0"



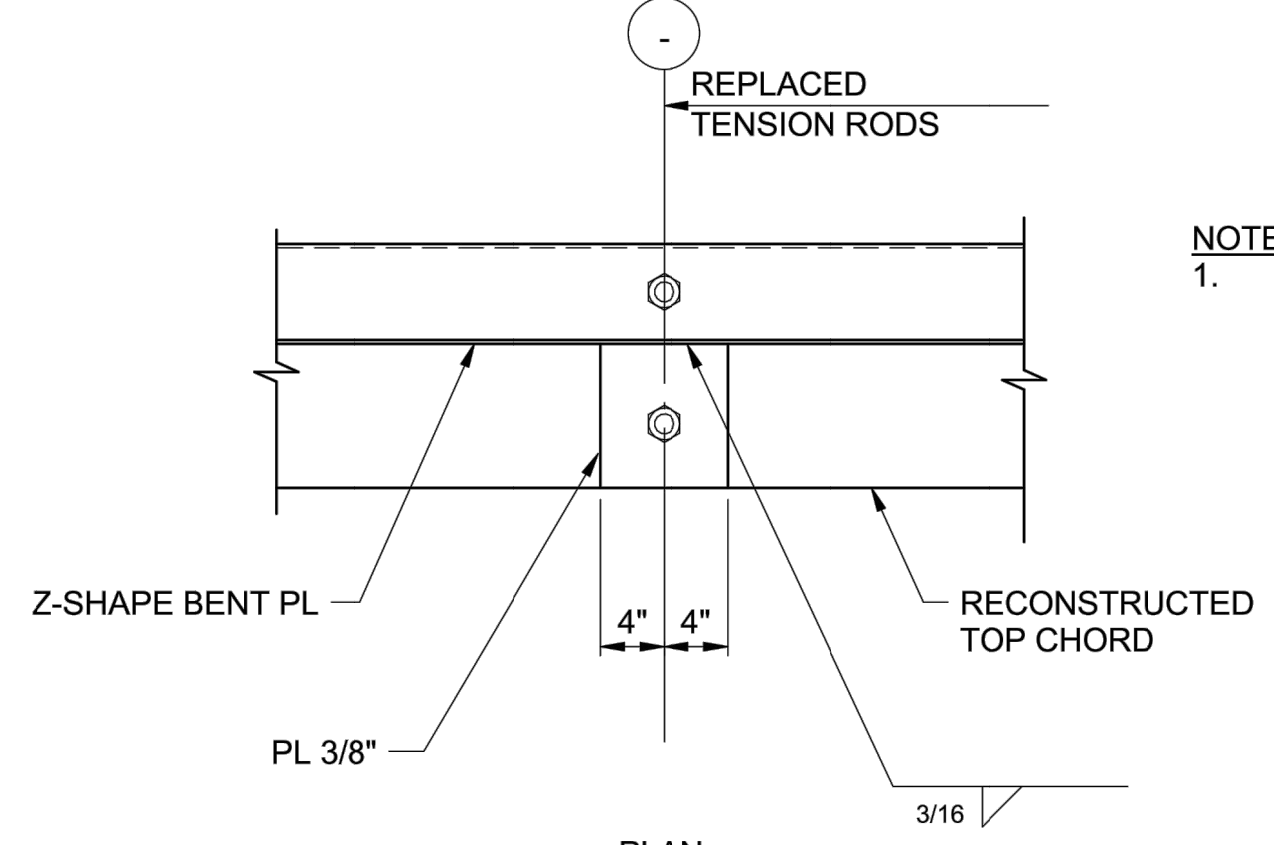
DETAIL 4 - NOT TO SCALE



DETAIL 5 - 1" = 1'-0"

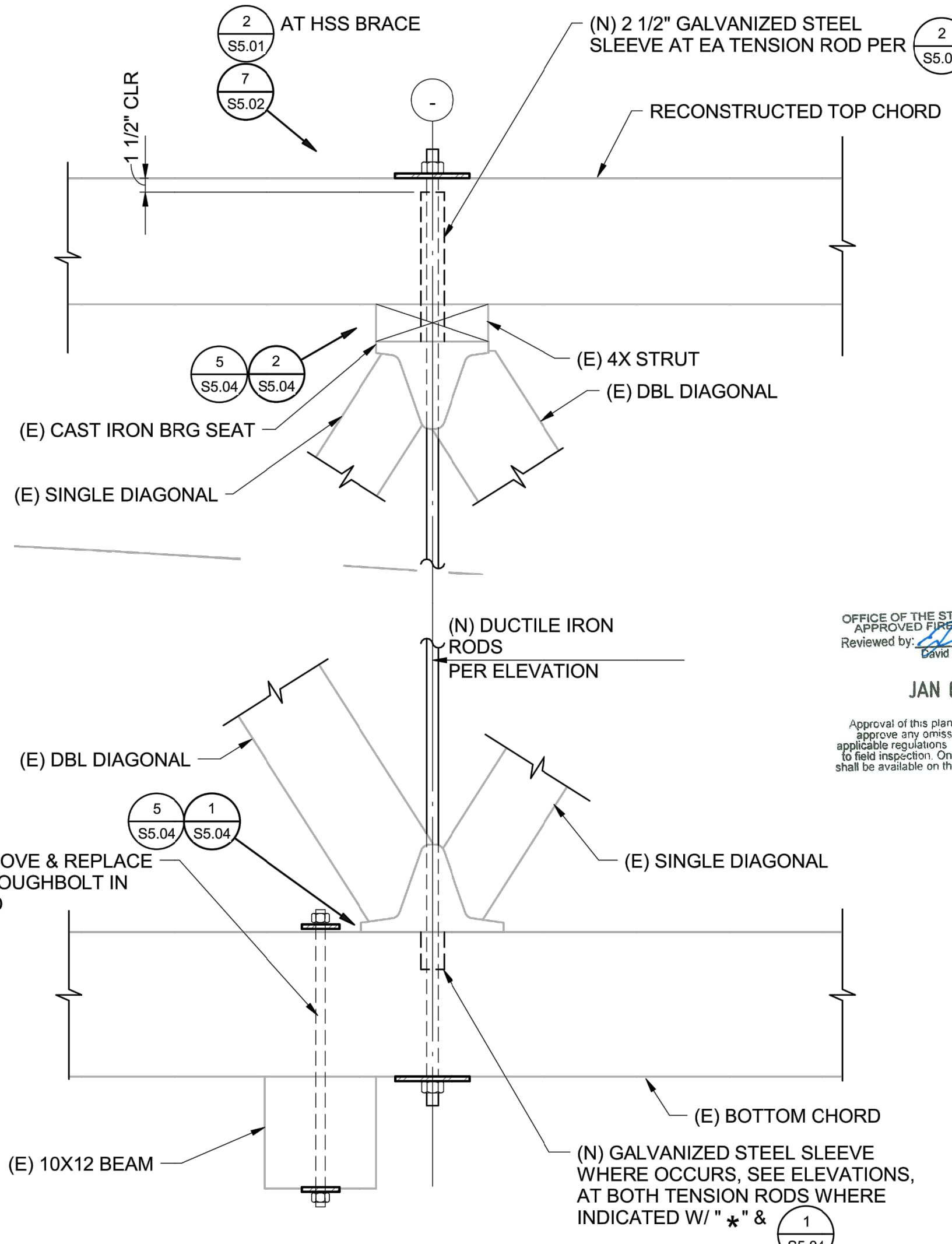


DETAIL 6 - 1" = 1'-0"



DETAIL 7 - 1" = 1'-0"

NOTES: 1. SEE S5.01 WHERE HSS HORIZ BRACES ATTACH TO Z-SHAPE PL.

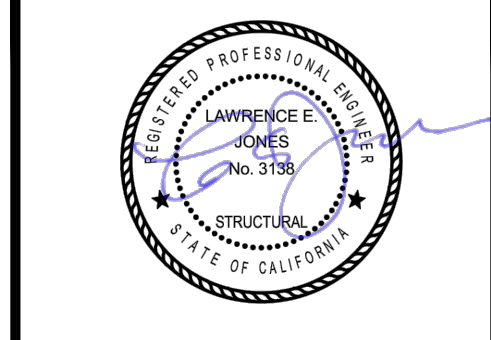


DETAIL 8 - 1" = 1'-0"

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DPR ACCESS COMPLIANCE REVIEW  
 ACCESSIBILITY SECTION  
 CERTIFICATION # 18-025  
 Reviewed by: Date

DESIGNED:  
 DRAWN:  
 CHECKED:  
 DATE: Issue Date

REVISIONS	DATE

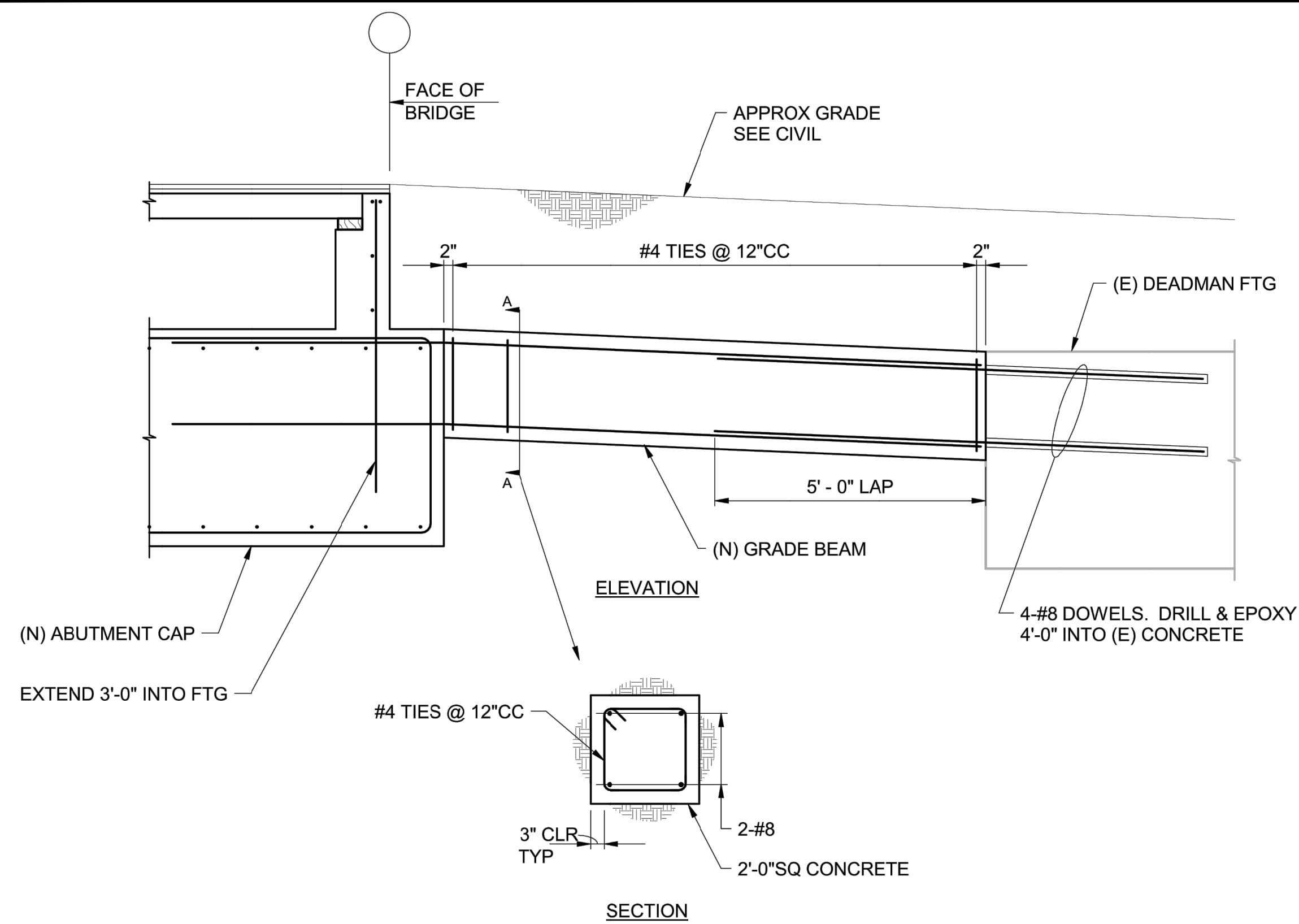
SOUTH YUBA RIVER STATE PARK  
 HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
 DETAILS

DRAWING NO.  
 30419.020

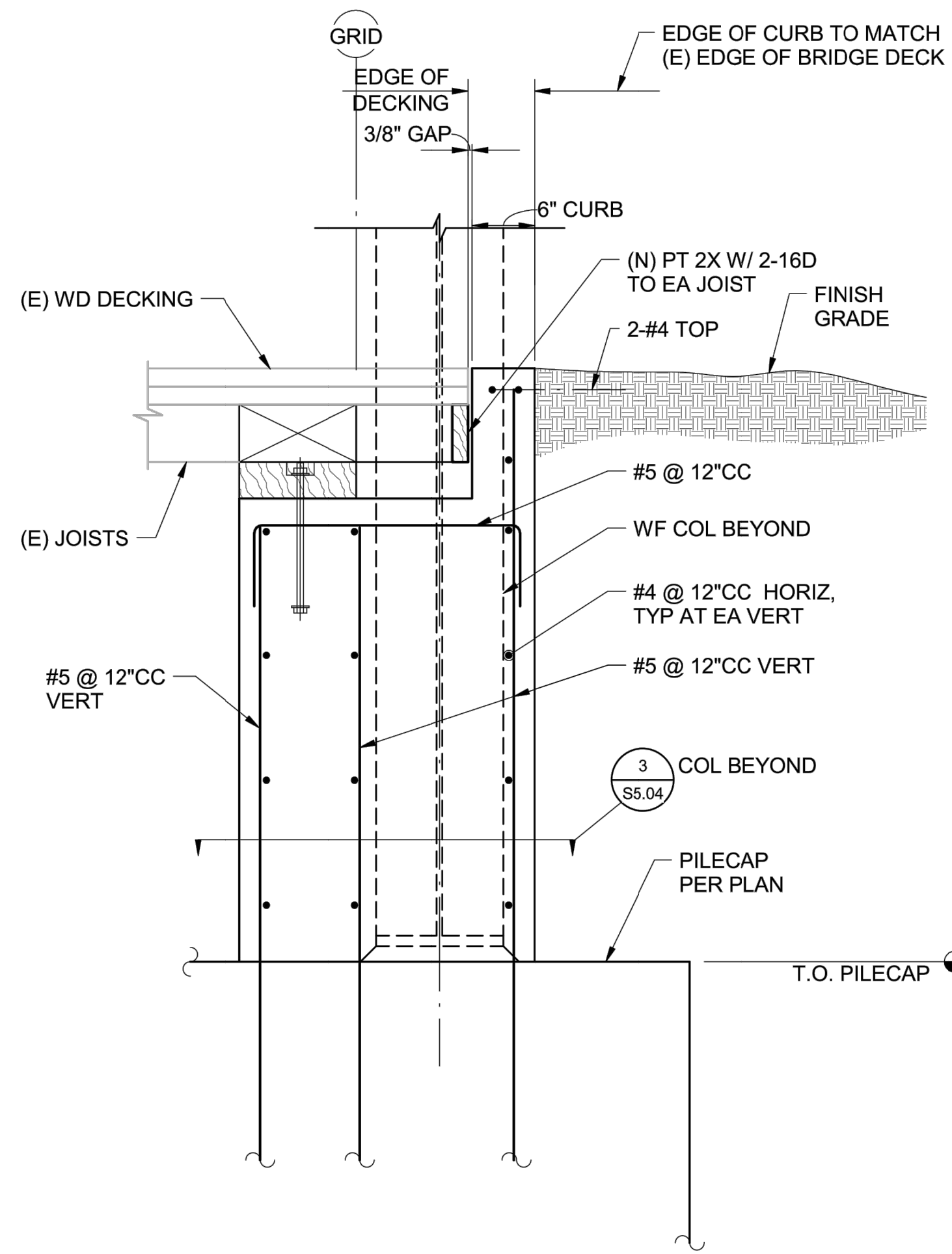
SHEET NO.  
 S5.02

020 OF 030

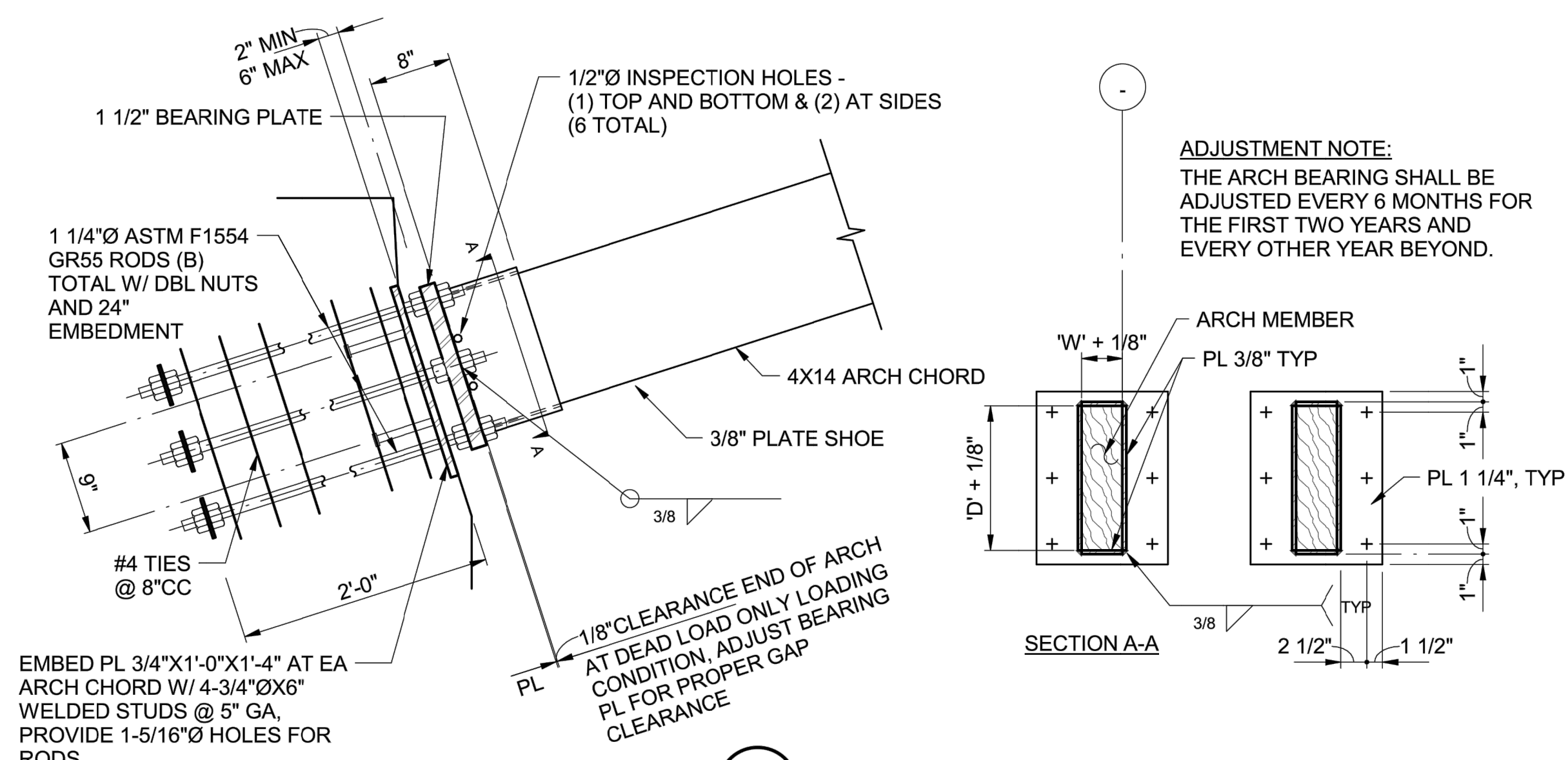




DETAIL 1 S5.03 — 1/2" = 1'-0"



DETAIL 3 S5.03 — 1" = 1'-0"



ADJUSTMENT NOTE: THE ARCH BEARING SHALL BE ADJUSTED EVERY 6 MONTHS FOR THE FIRST TWO YEARS AND EVERY OTHER YEAR BEYOND.

DETAIL 2 S5.03 — 1" = 1'-0"

NOTE: ALL PARTS HOT-DIP GALVANIZED AND PAINTED BLACK

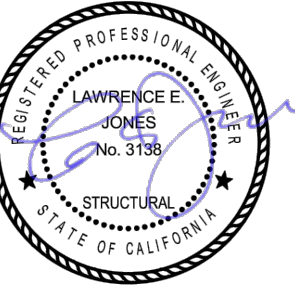
OFFICE OF THE STATE FIRE MARSHAL APPROVED SURFACING ONLY Reviewed by David Nye, DSFM

JAN 09 2018

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ACQUISITION & DEVELOPMENT DIVISION One Capitol Mall Sacramento, CA 95814-3229



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Reviewed by Date

DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION CERTIFICATION # 18-025

Reviewed by Date

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: DRAWN: CHECKED: DATE: Issue Date

REVISIONS	
DATE	DATE

SOUTH YUBA RIVER STATE PARK HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION DETAILS

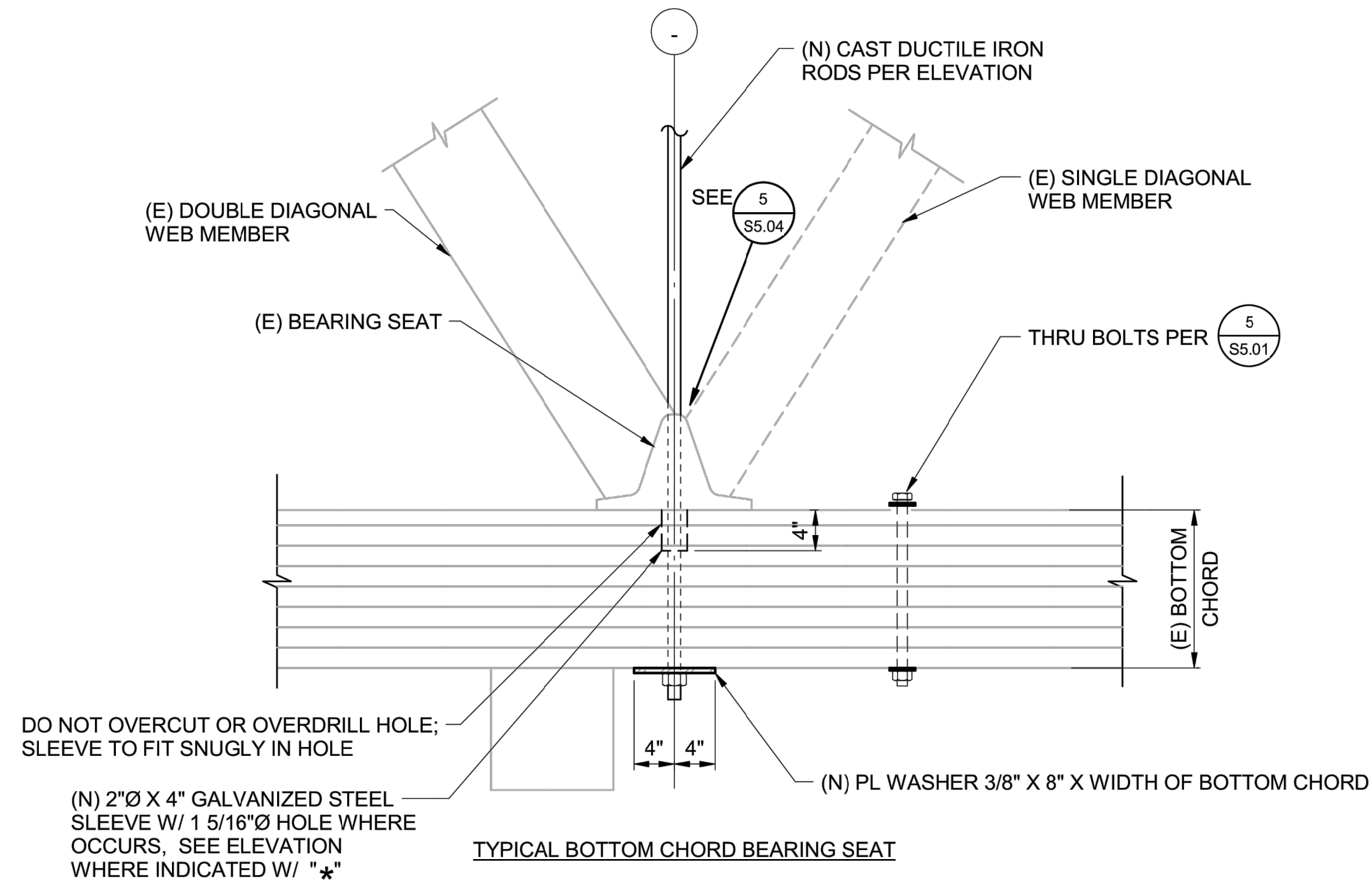


Buehler & Buehler Structural Engineers, Inc. 600 Q Street, Suite 200, Sacramento, CA 95811 tel 916.443.0303 fax 916.443.0313 Sacramento - Florence - San Francisco

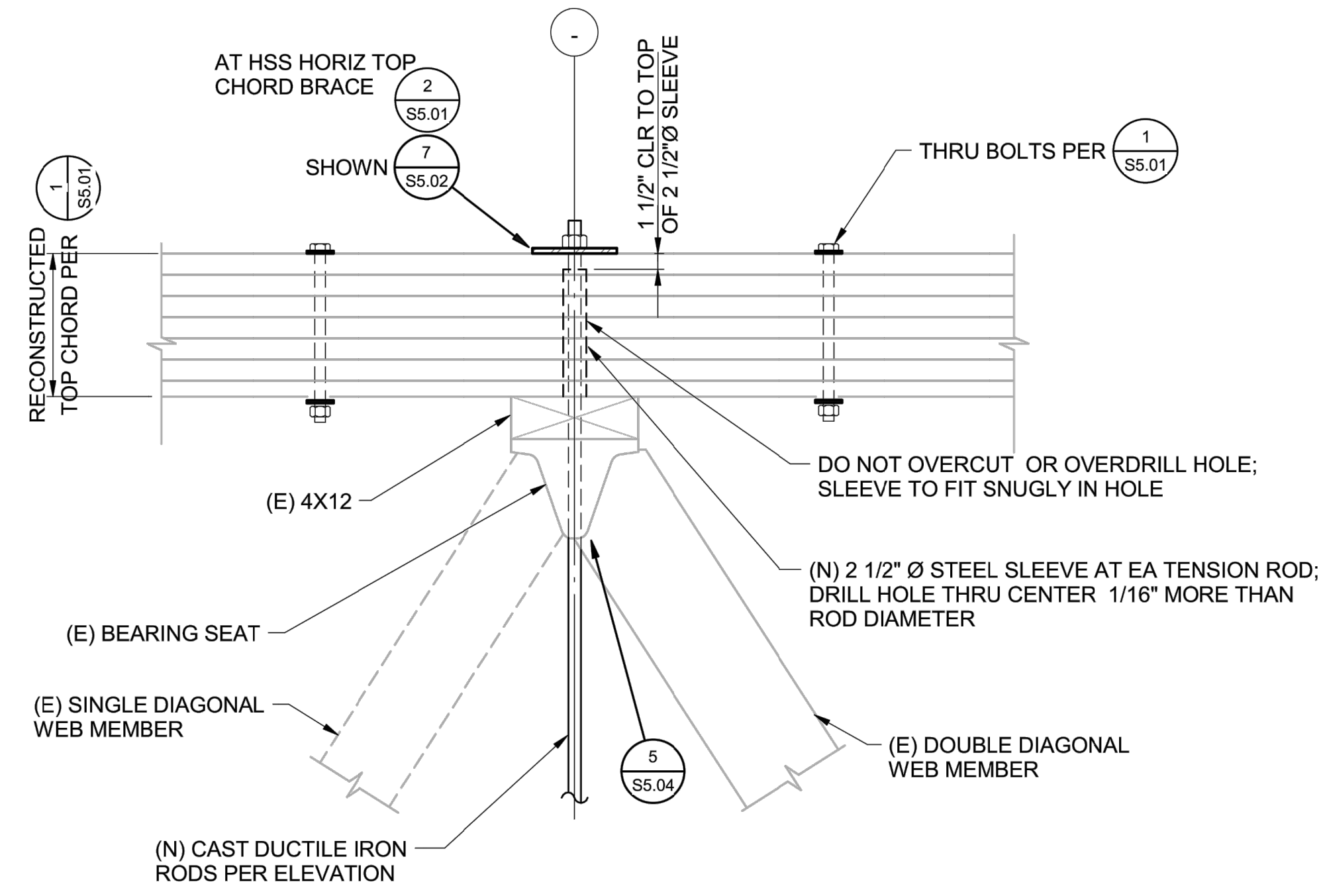
DRAWING NO. 30419.021

SHEET NO. S5.03

021 OF 030

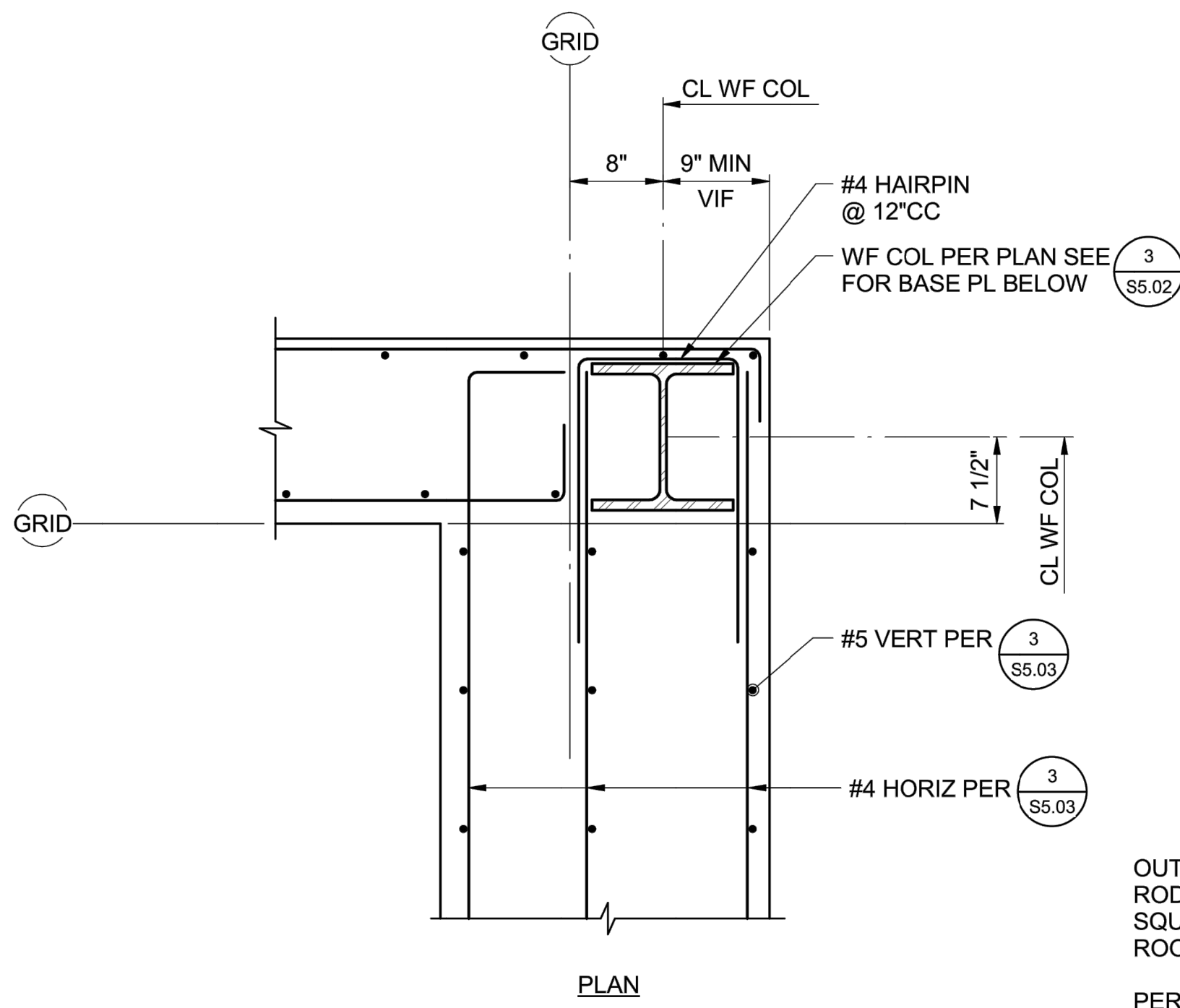


**DETAIL 1** — 1" = 1'-0"



**DETAIL 2** — 1" = 1'-0"

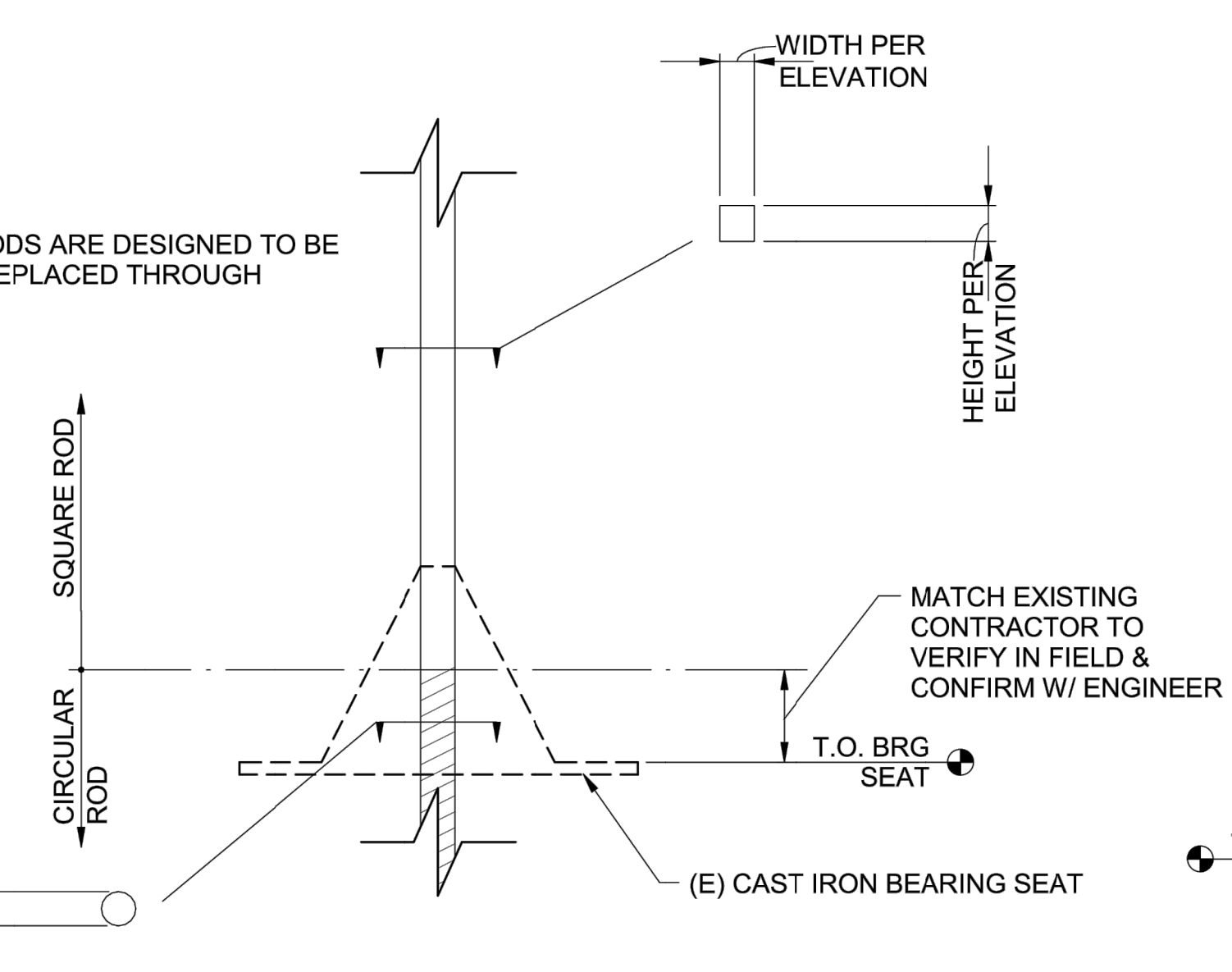
OFFICE OF THE STATE FIRE MARSHAL  
 APPROVED FIRE AND PAINT ONLY  
 Reviewed by: David Nye, DSFM  
 JAN 09 2018  
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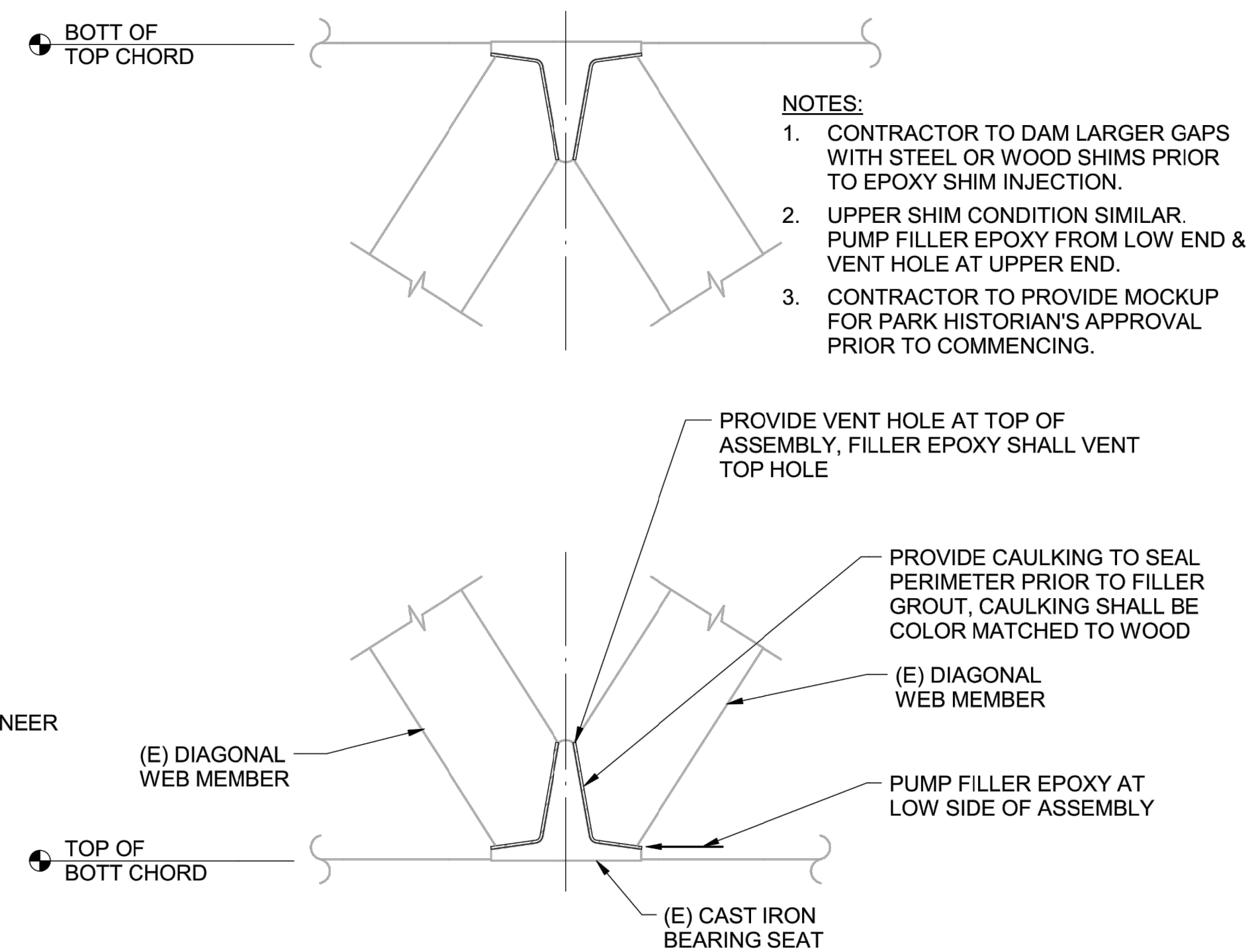
**DETAIL 3** — 1" = 1'-0"

NOTES:  
 1. NEW TENSION RODS ARE DESIGNED TO BE REMOVED AND REPLACED THROUGH THE TOP CHORD

OUTSIDE DIAMETER OF ROD = HEIGHT/WIDTH OF SQUARE ROD (THREAD ROOT = 0.865" FOR 1" Ø = 1.10" FOR 1 1/4" Ø PER AISC STANDARDS)



**DETAIL 4** — 3" = 1'-0"



**DETAIL 5** — 1" = 1'-0"

- NOTES:**
- CONTRACTOR TO DAM LARGER GAPS WITH STEEL OR WOOD SHIMS PRIOR TO EPOXY SHIM INJECTION.
  - UPPER SHIM CONDITION SIMILAR. PUMP FILLER EPOXY FROM LOW END & VENT HOLE AT UPPER END.
  - CONTRACTOR TO PROVIDE MOCKUP FOR PARK HISTORIAN'S APPROVAL PRIOR TO COMMENCING.



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 One Capitol Mall  
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 Reviewed by: Date  
 DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION  
 CERTIFICATION # 18-025  
 Reviewed by: Date  
 ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED:  
 DRAWN:  
 CHECKED:  
 DATE: Issue Date

REVISIONS	
DATE	DATE

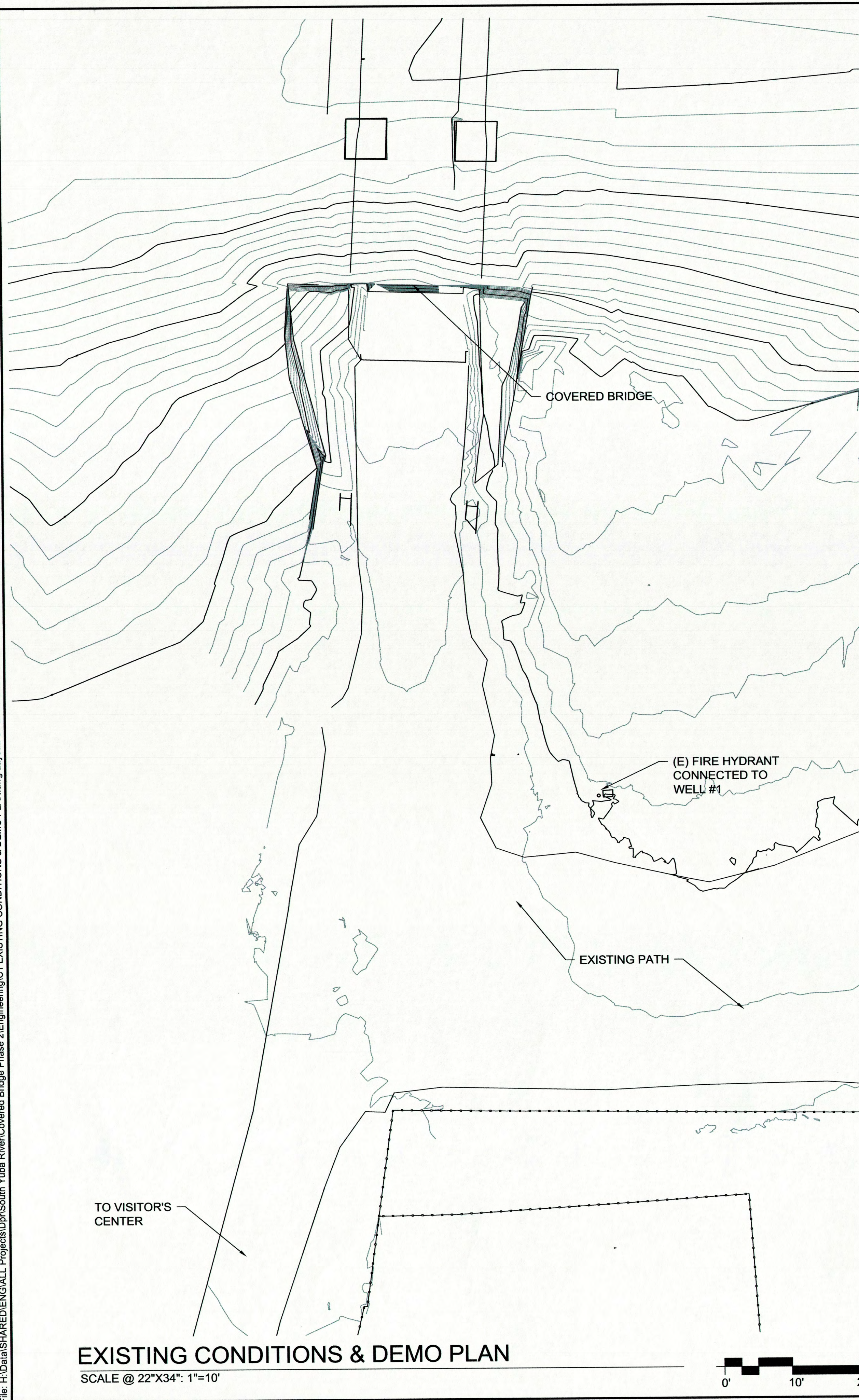
SOUTH YUBA RIVER STATE PARK  
 HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
 DETAILS

DRAWING NO.  
 30419.022

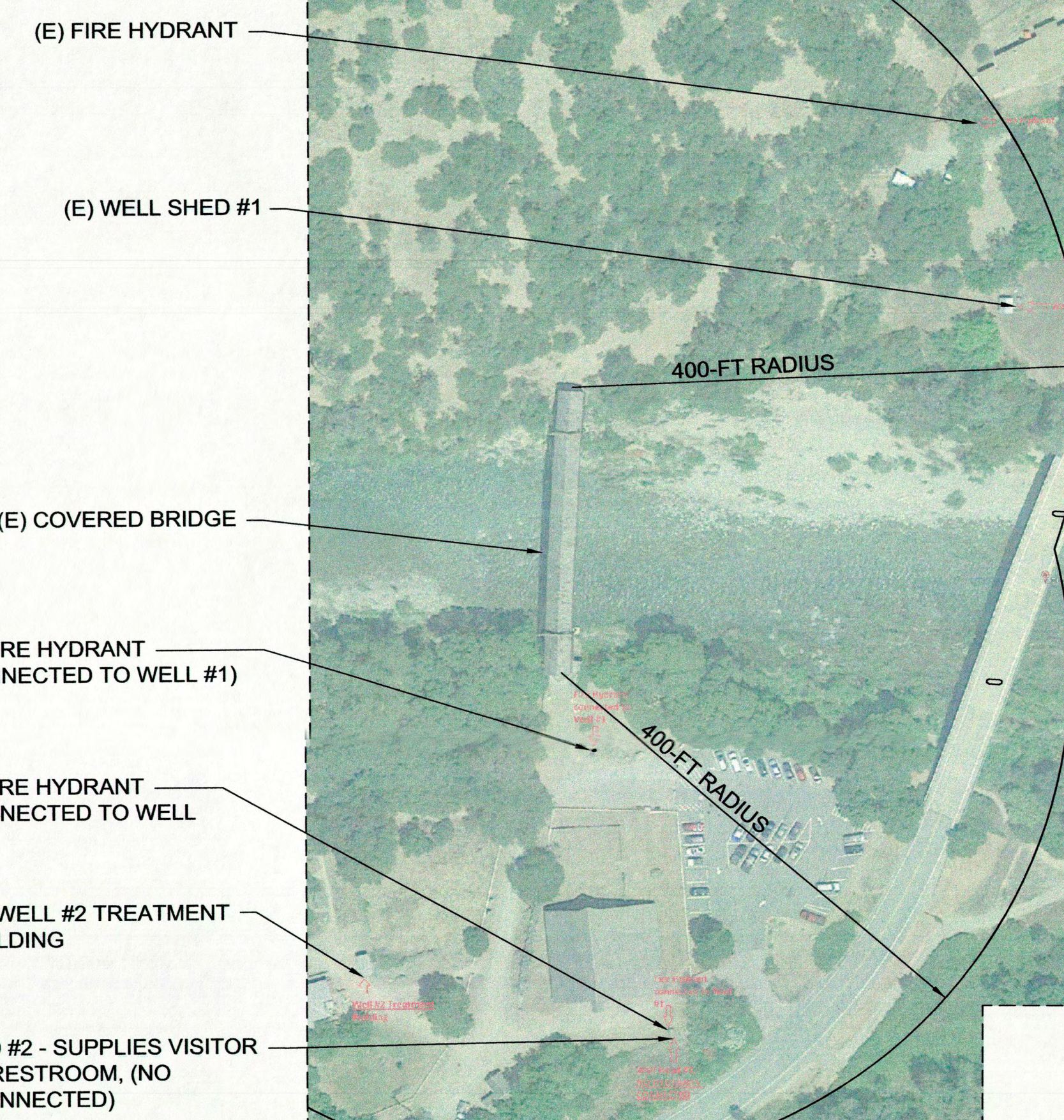
SHEET NO.  
 S5.04

022 OF 030



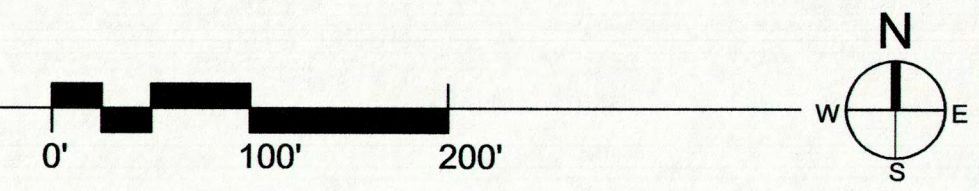


- FIRE WATER NOTES:**
1. NO STORAGE OF WATER IS PROVIDED ONSITE FOR EITHER DOMESTIC OR FIRE USE.
  2. PRESSURE IS MAINTAINED BY BOOSTER PUMP WITHIN SYSTEM.
  3. SYSTEM PRESSURE IS NORMALLY HELD BETWEEN 40 PSI AND 65 PSI.
  4. SYSTEM PRESSURE DROPS TO 20 PSI WHEN HYDRANT IS OPENED DUE TO WELLS LIMITED CAPACITY TO KEEP UP WITH FLOWS.
  5. HYDRANT FLOWS APPROXIMATELY 15 GPM DUE TO LIMITED WELL FLOW VOLUME.



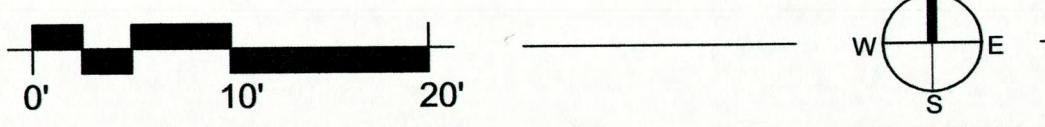
**NOTE:**  
 EXISTING HYDRANTS DO NOT MEET MINIMUM FIRE FLOW REQUIREMENTS. FIRE WATER STORAGE DOES NOT MEET MINIMUM VOLUME REQUIREMENTS. SIGNATURE BY CIVIL ENGINEER DOES NOT IMPLY ACCEPTANCE OR ENDORSEMENT OF THESE LIFE-SAFETY DEFICIENCIES. THESE DEFICIENCIES SHOULD BE CORRECTED IMMEDIATELY.

**EXISTING FIRE HYDRANTS**  
 SCALE @ 22"x34": 1"=100'



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 APPROVED FIRE AND PAVING ONLY  
 Reviewed by: *David Nye, DSFM*  
 JAN 09 2018  
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**EXISTING CONDITIONS & DEMO PLAN**  
 SCALE @ 22"x34": 1"=10'



REGISTERED PROFESSIONAL CIVIL ENGINEER  
 ANTHONY P. SUTTER  
 No. C62064  
 12-12-17  
 STATE OF CALIFORNIA

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 Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

DPR ACCESS COMPLIANCE REVIEW  
 ACCESSIBILITY SECTION  
 CERTIFICATION # 18-016  
 Reviewed by: *ASD* Date: 1/16/18

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER.

DESIGNED: A. SUTTER  
 DRAWN: STAFF  
 CHECKED: K. ROSE  
 DATE: 12 DEC 2017

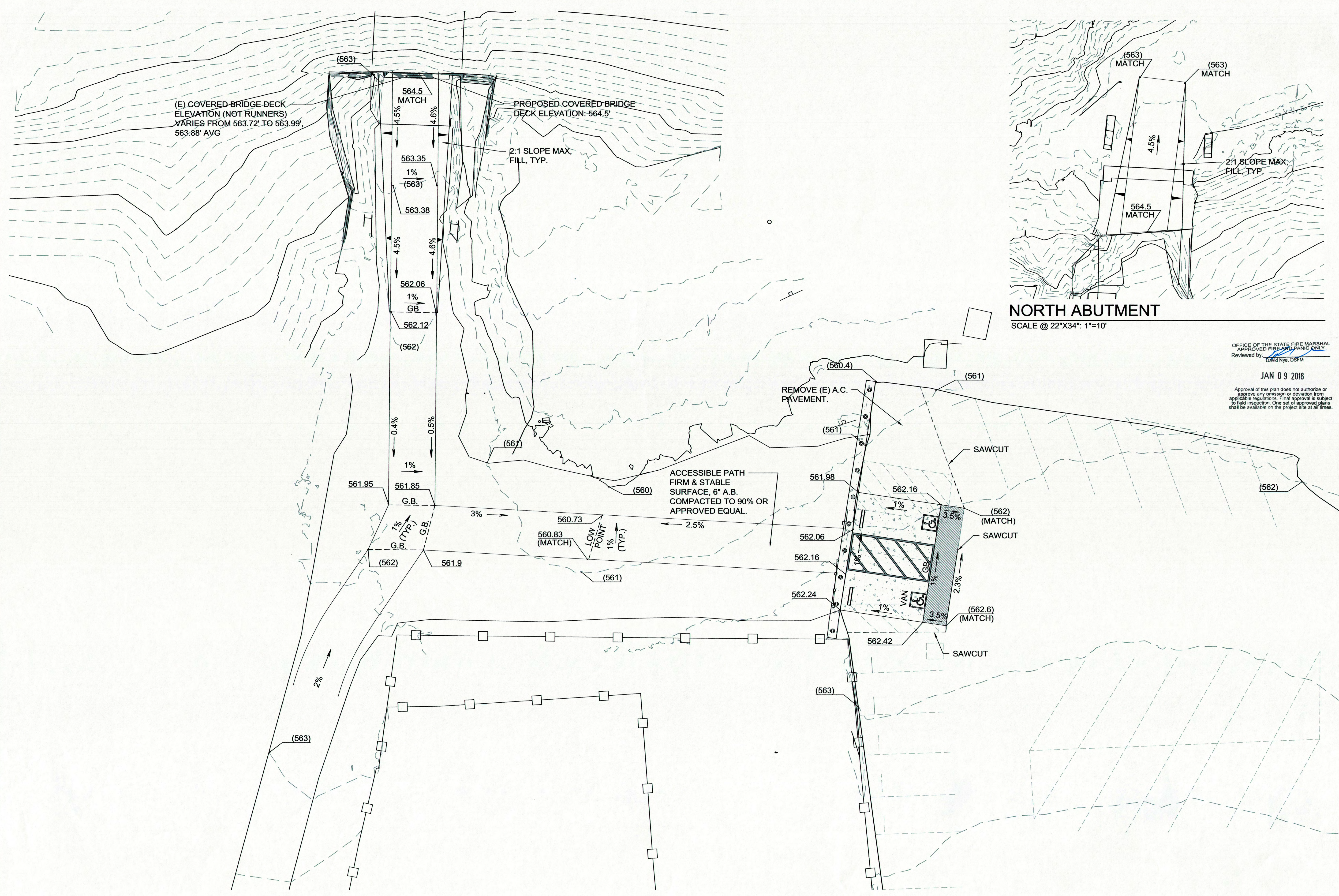
REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
 HISTORIC COVERED BRIDGE  
**EXISTING CONDITIONS & DEMO PLAN**

DRAWING NO.  
 30419.023

SHEET NO.  
**C1**

023 OF 030



**NORTH ABUTMENT**  
SCALE @ 22"x34": 1"=10'

OFFICE OF THE STATE FIRE MARSHAL  
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Reviewed by: *[Signature]*  
David Nye, DSFM  
JAN 09 2018  
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ACQUISITION & DEVELOPMENT DIVISION  
One Capitol Mall  
Sacramento, CA  
95814-3229



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Reviewed by: *[Signature]* Date: *[Signature]*

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # 18-025  
Reviewed by: *[Signature]* Date: 1/16/18  
ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: A. SUTTER  
DRAWN: STAFF  
CHECKED: K. ROSE  
DATE: 12 DEC 2017

REVISIONS	
	DATE

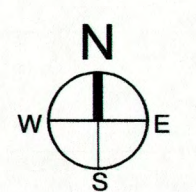
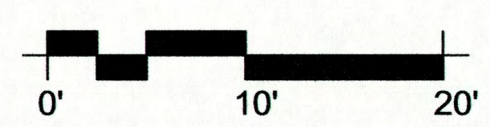
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE  
**GRADING PLAN**

DRAWING NO.  
30419.024

SHEET NO.  
**C2**

024 OF 030

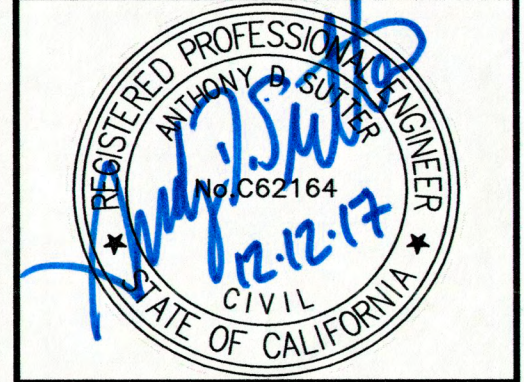
**GRADING PLAN**  
SCALE @ 22"x34": 1"=10'







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One Capitol Mall  
Sacramento, CA  
95814-3229



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Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIRE AND PANIC ONLY  
Reviewed by David Nye, DSFM

JAN 0 9 2018

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ACCESSIBILITY SECTION  
CERTIFICATION # 18-025

Reviewed by \_\_\_\_\_ Date 1/14/18

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DESIGNED: A. SUTTER  
DRAWN: STAFF  
CHECKED: K. ROSE  
DATE: 12 DEC 2017

REVISIONS	
NO.	DATE

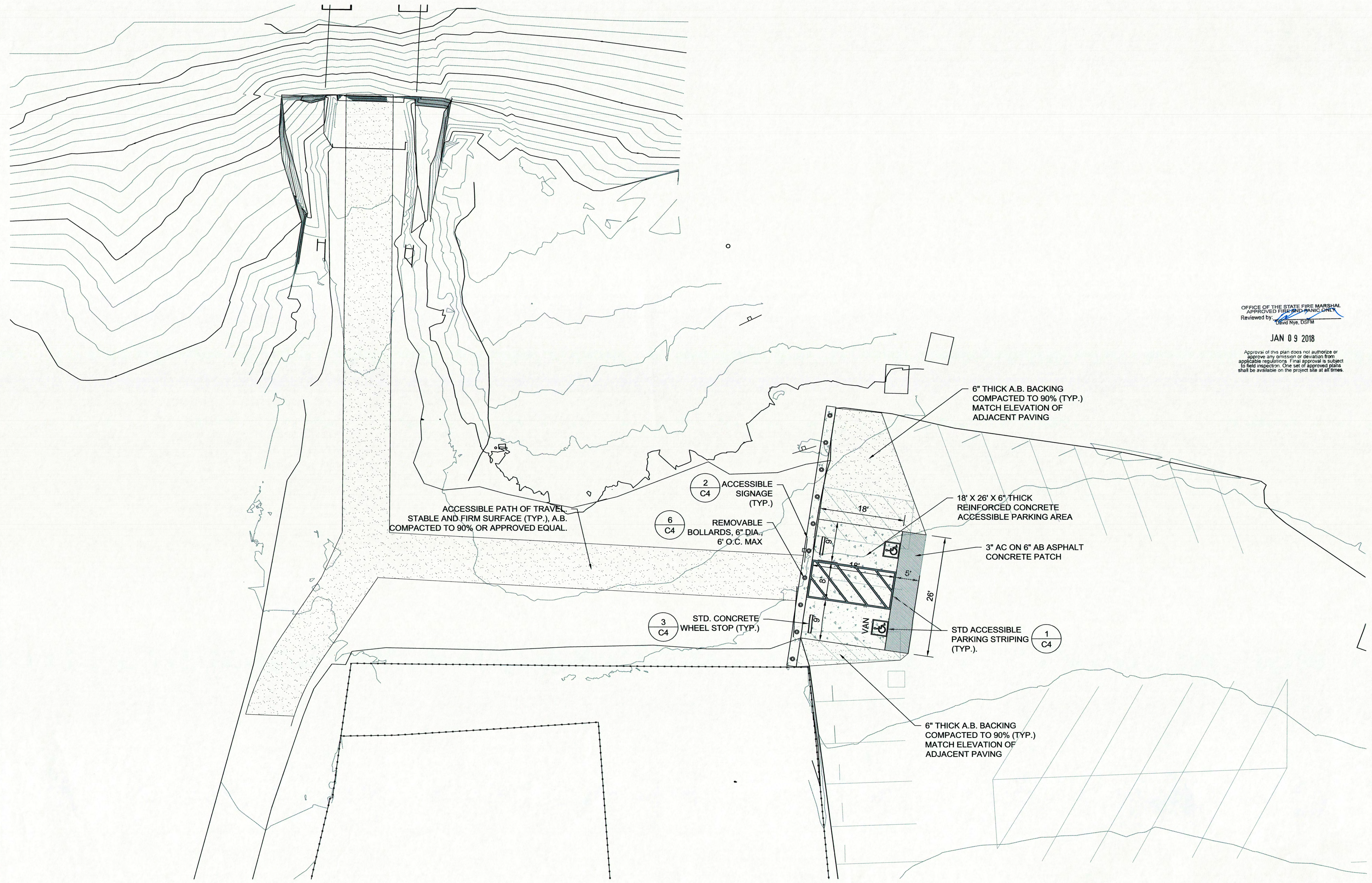
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE

# SITE PLAN

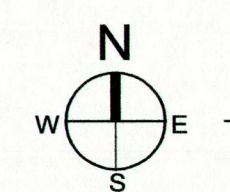
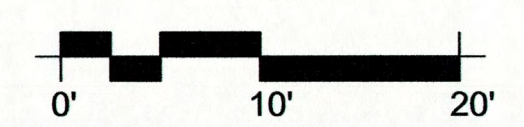
DRAWING NO.  
30419.025

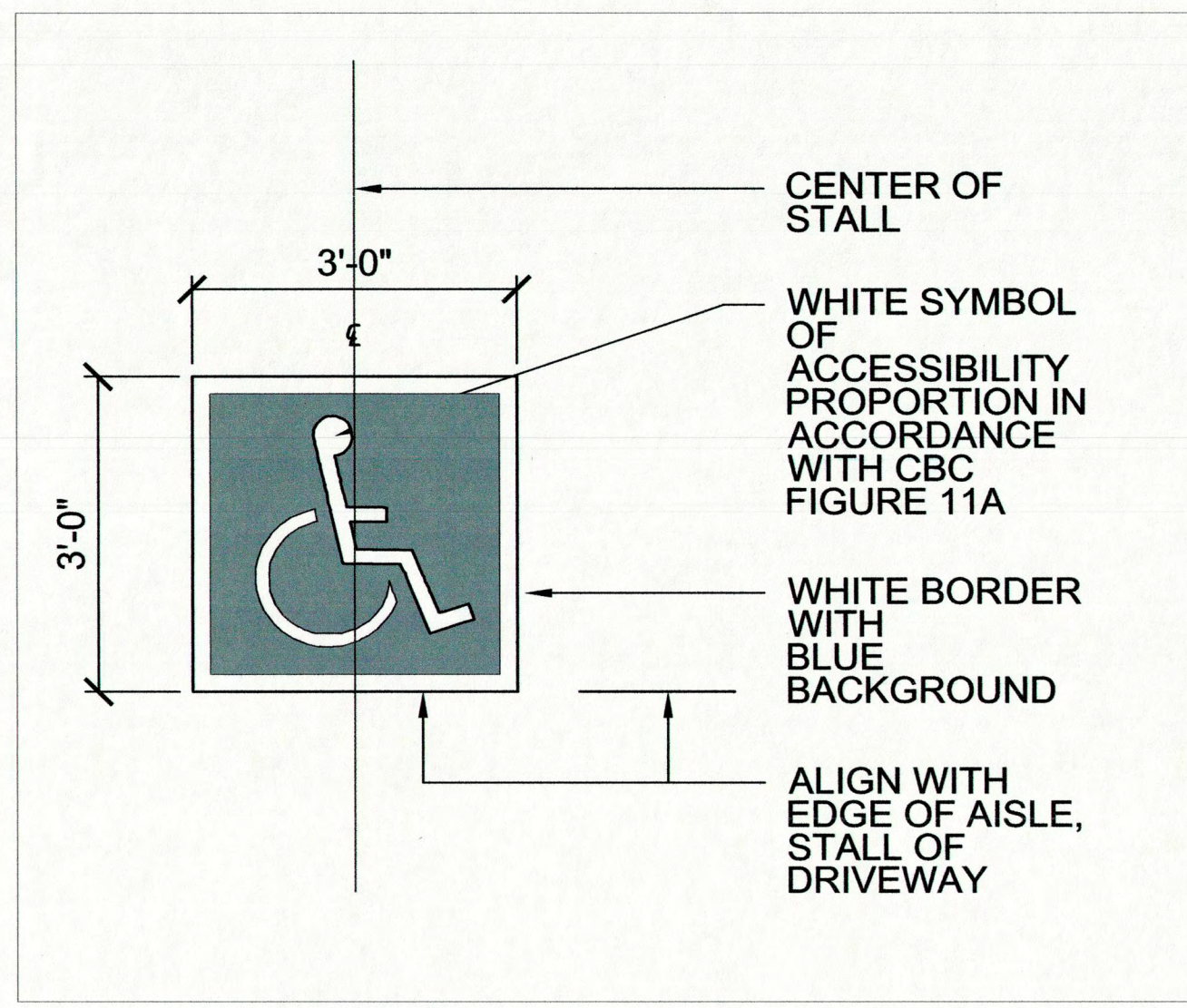
SHEET NO.  
**C3**

025 OF 030

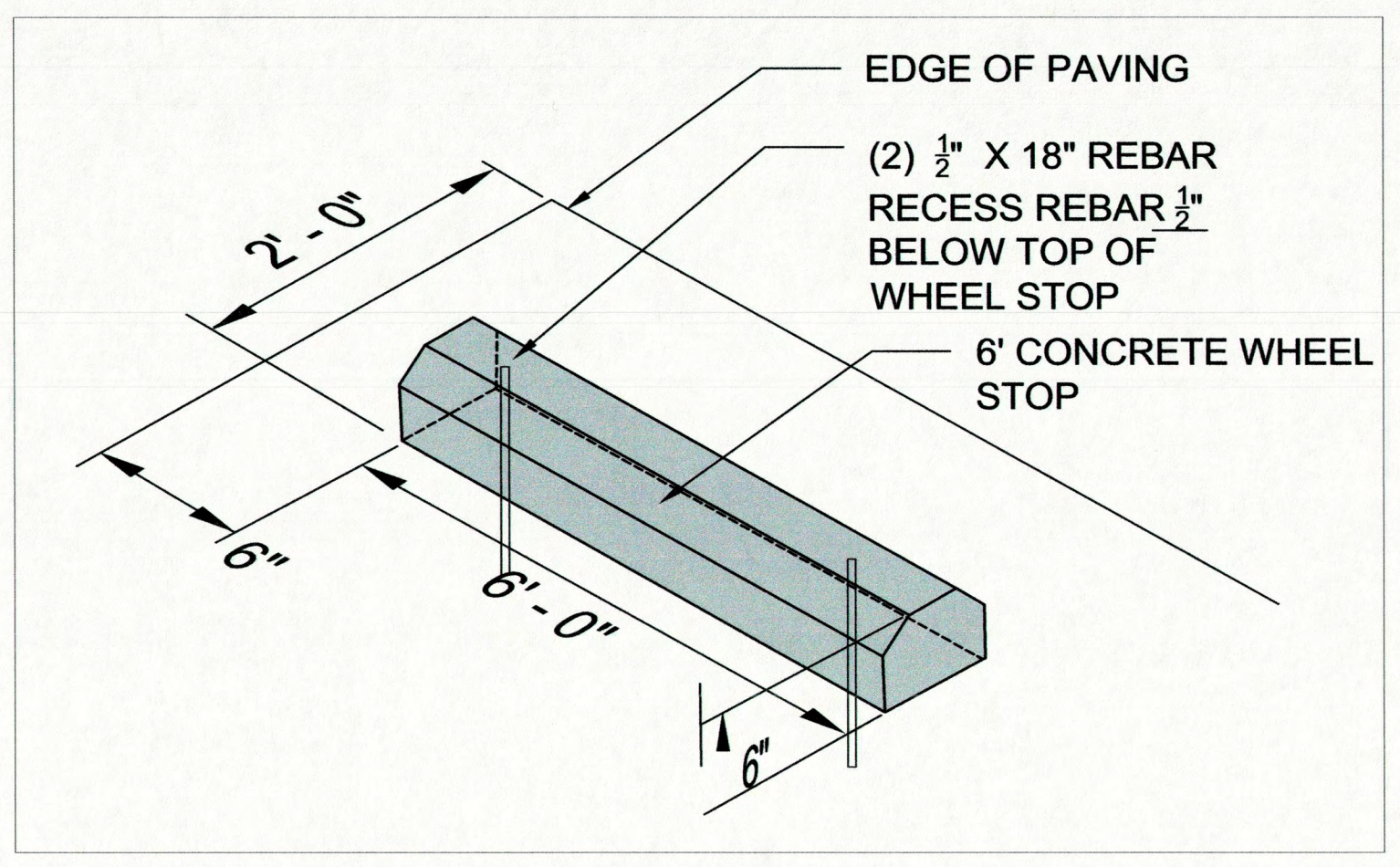


**SITE PLAN**  
SCALE @ 22"X34": 1"=10'

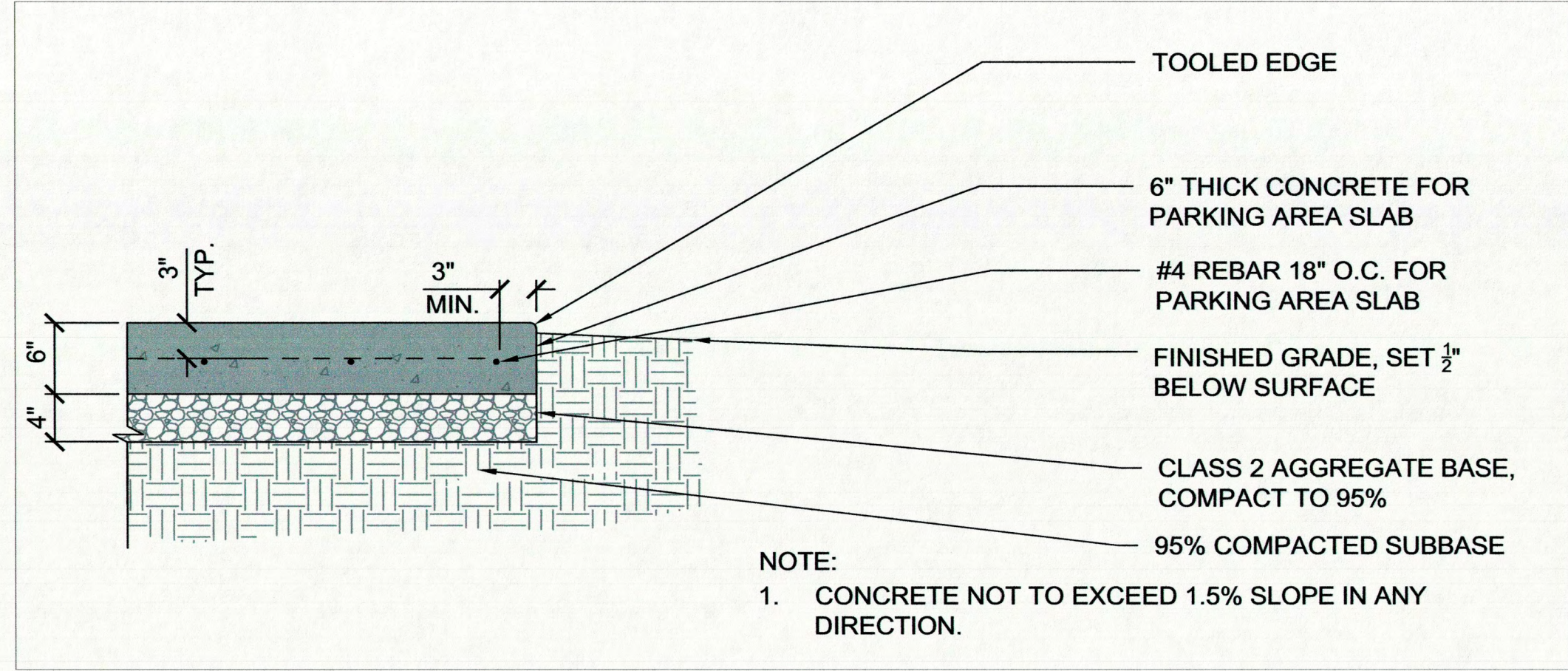




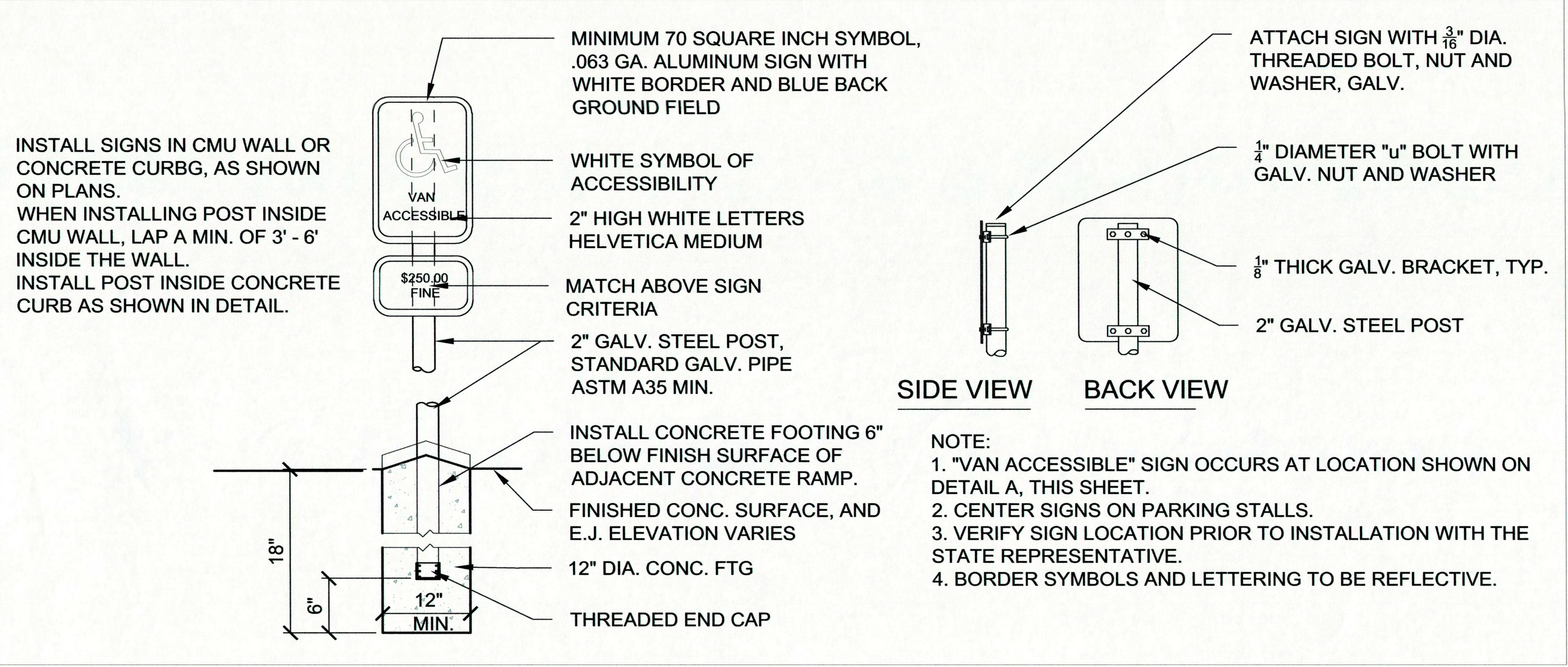
**1 ACCESSIBLE SYMBOL**  
SCALE@22X34 77/128" = 1'-0"



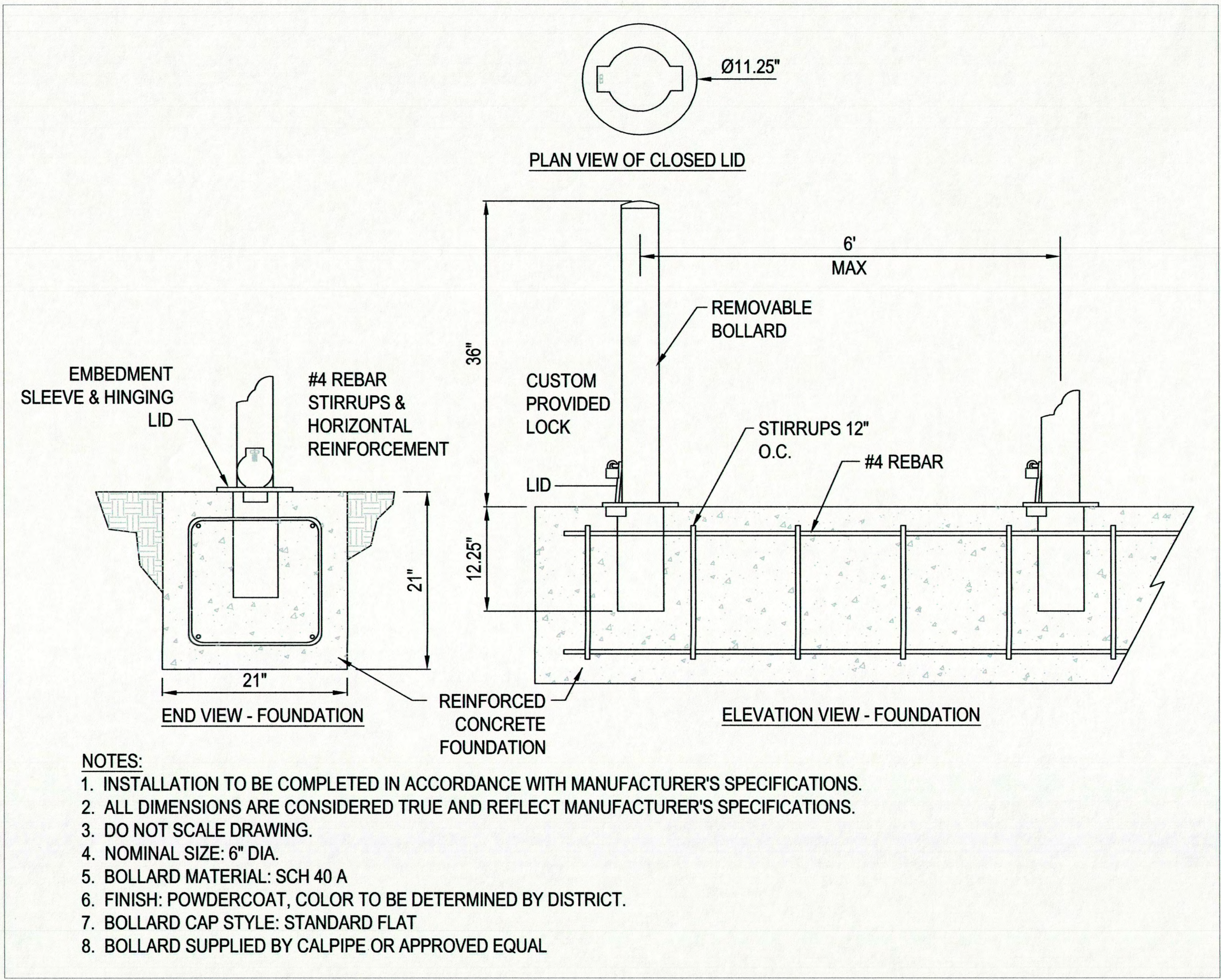
**3 WHEEL STOP**  
SCALE@22X34 1 51/256" = 1'-0"



**5 CONCRETE PAVING**  
SCALE@22X34 1" = 1'-0"

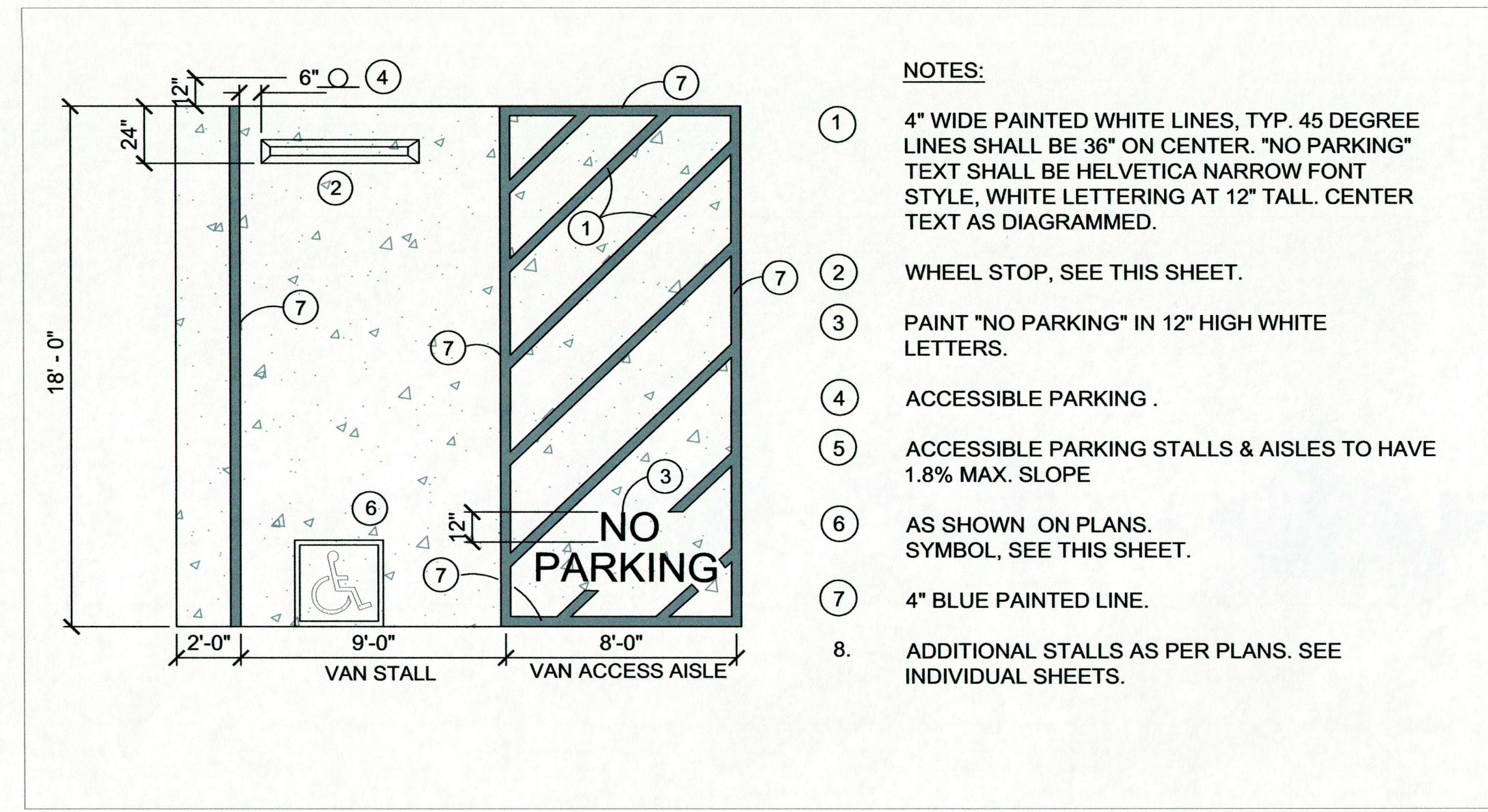


**2 ACCESSIBLE SIGN POST INSTALLATION**  
SCALE@22X34 1 51/256" = 1'-0"



**6 REMOVABLE BOLLARD**  
SCALE@22X34 1" = 1'-0"

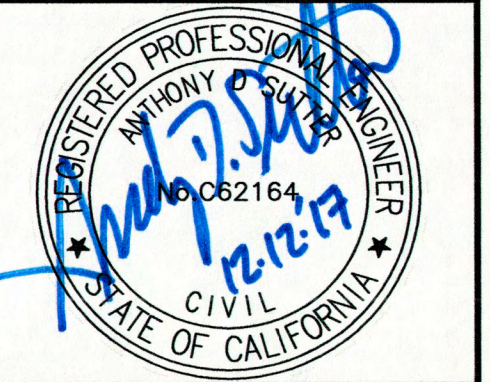
OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIRE AND PARK ONLY  
Reviewed by: *[Signature]*  
JAN 09 2018  
Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.



**4 ACCESSIBLE PARKING**  
SCALE@22X34 61/256" = 1'-0"



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One Capitol Mall  
Sacramento, CA  
95814-3229



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Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION  
CERTIFICATION # 18-025  
Reviewed by: *[Signature]* Date: *[Date]*  
ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: A. SUTTER  
DRAWN: STAFF  
CHECKED: K. ROSE  
DATE: 12 DEC 2017

REVISIONS	DATE

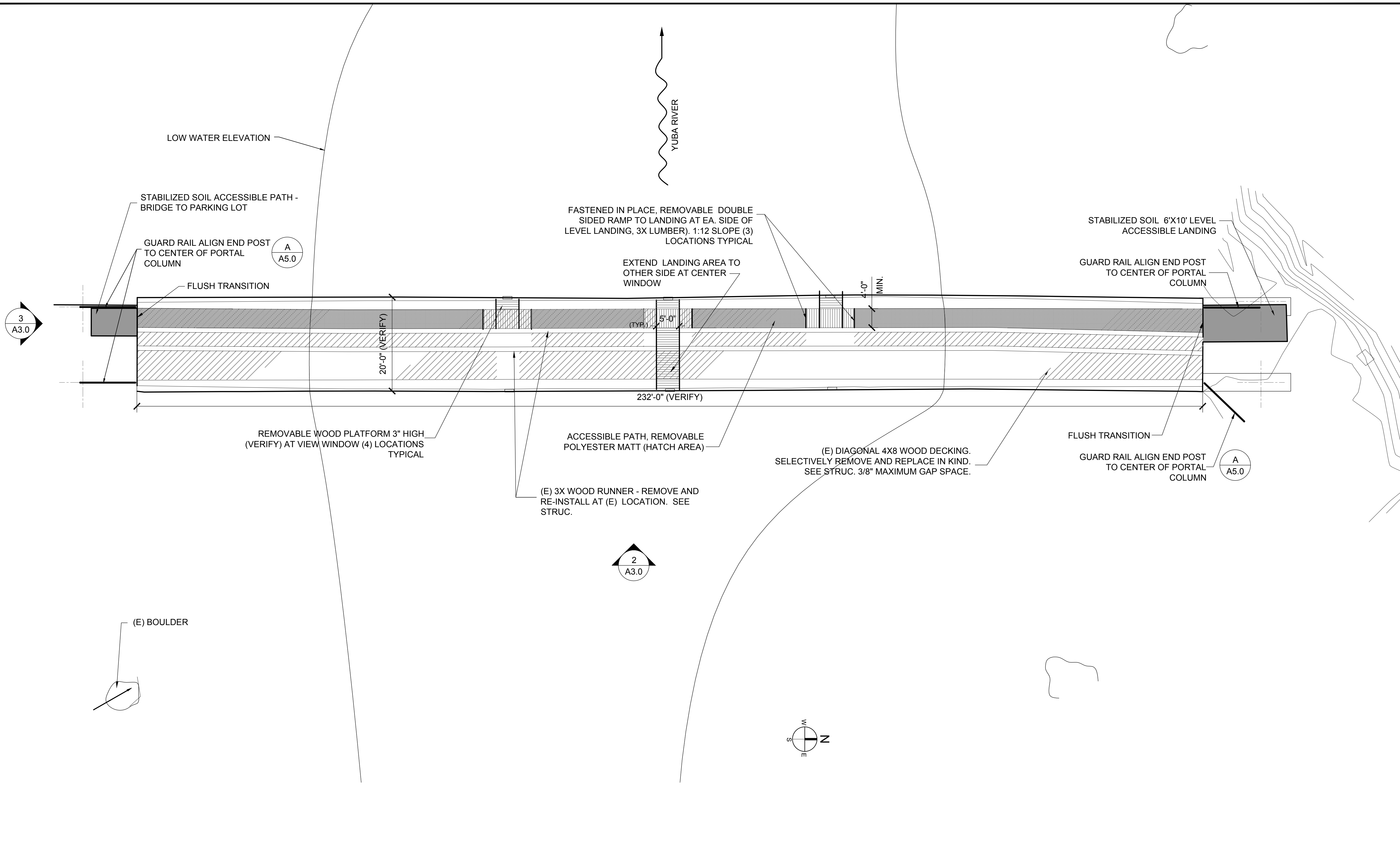
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE

DETAILS

DRAWING NO.  
30419.026

SHEET NO.  
C4

026 OF 030



**1 BRIDGE PLAN - ARCHITECTURAL**  
 SCALE @ 22X34 3/32" = 1'-0"



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DPR ACCESS COMPLIANCE REVIEW  
 ACCESSIBILITY SECTION  
 CERTIFICATION # 18-025

Reviewed by *AFB* Date *1/18/18*  
 ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: DESIGNER  
 DRAWN: STAFF  
 CHECKED: SUPERVISOR  
 DATE: DECEMBER 2017

REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
 HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
**FLOOR DECK PLAN - ARCHITECTURAL**

OFFICE OF THE STATE FIRE MARSHAL  
 APPROVED FIRE AND PUMP ONLY  
 Reviewed by *David Hye, DSFM*

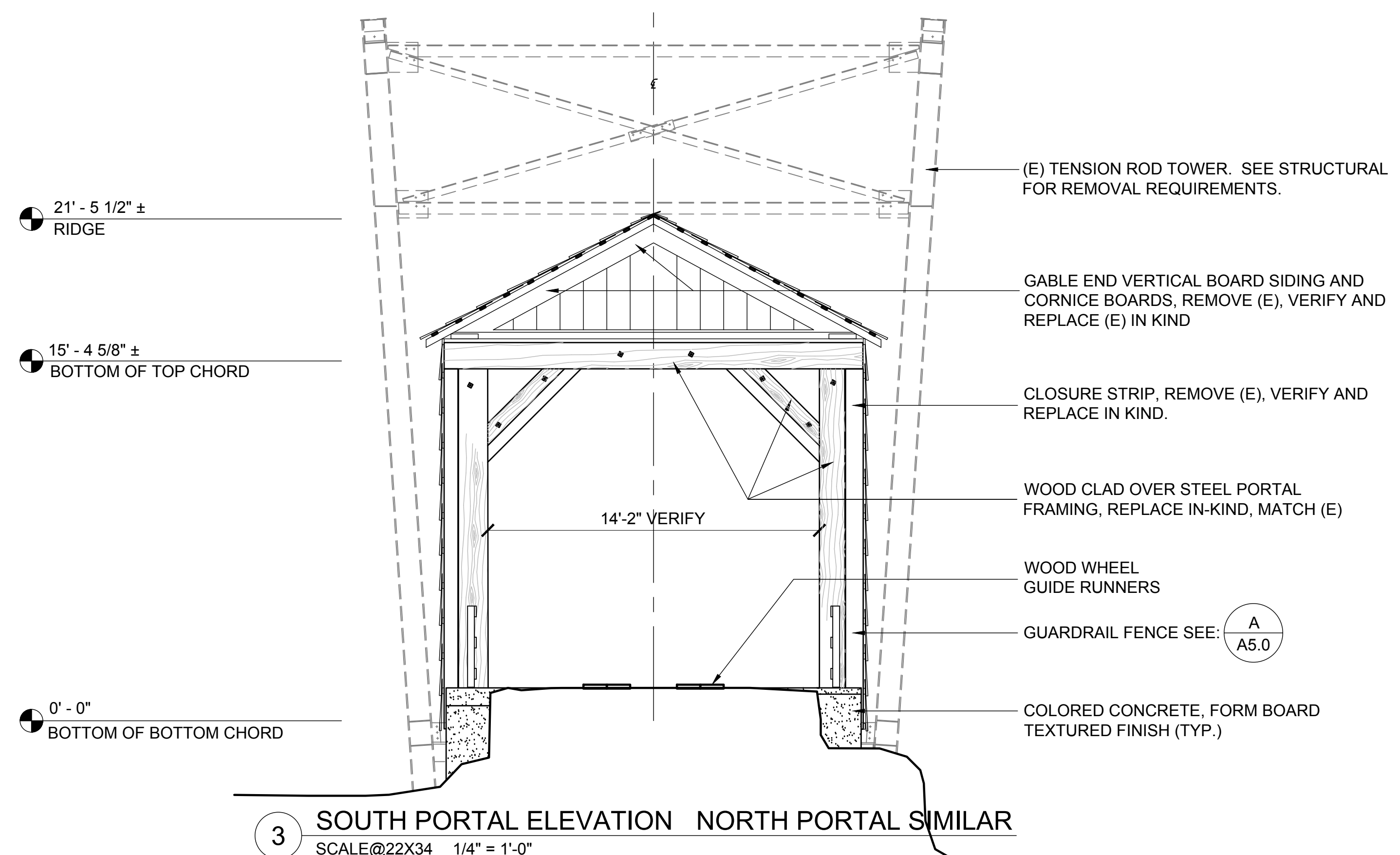
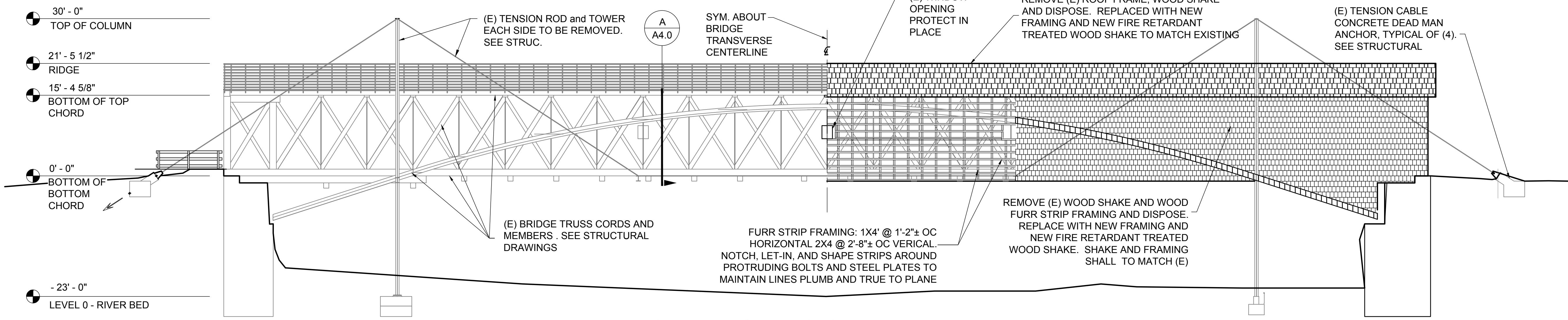
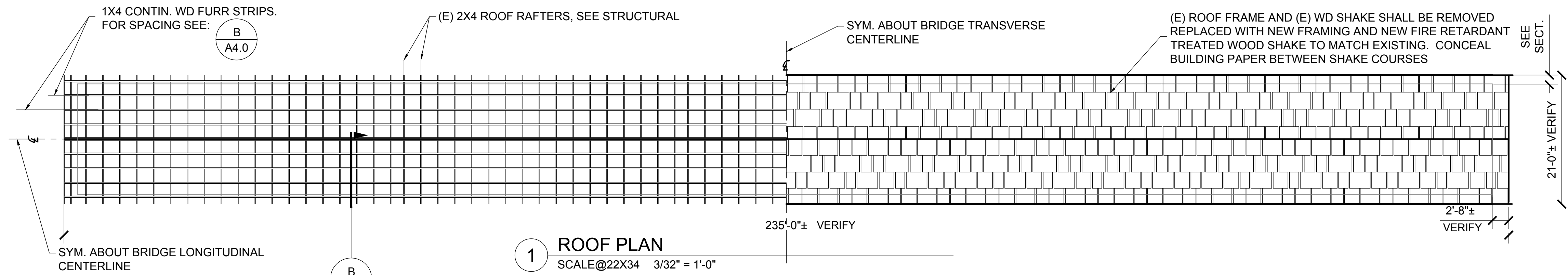
JAN 09 2018

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

DRAWING NO.  
**30419.027**

SHEET NO.  
**A2.0**

027 OF 030



OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIRE AND FRAME ONLY  
Reviewed by: David Nye, USFM  
JAN 09 2018

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ACQUISITION & DEVELOPMENT DIVISION  
One Capitol Mall  
Sacramento, CA  
95814-3229



CALIFORNIA STATE FIRE MARSHAL - APPROVED  
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Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION  
CERTIFICATION # 18-025

Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: DESIGNER  
DRAWN: STAFF  
CHECKED: SUPERVISOR  
DATE: DECEMBER 2017

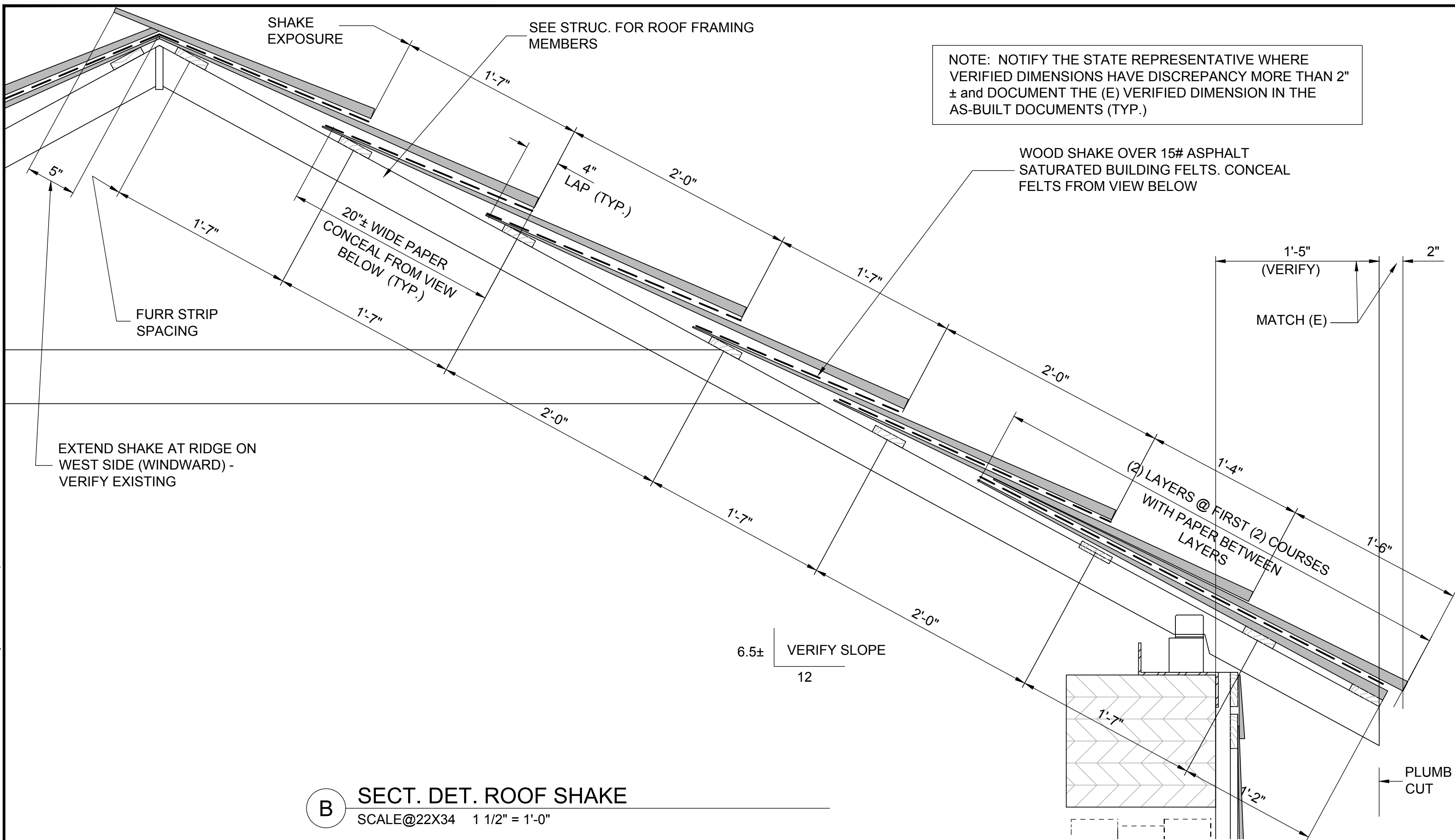
REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
ROOF PLAN SECTION AND ELEVATION

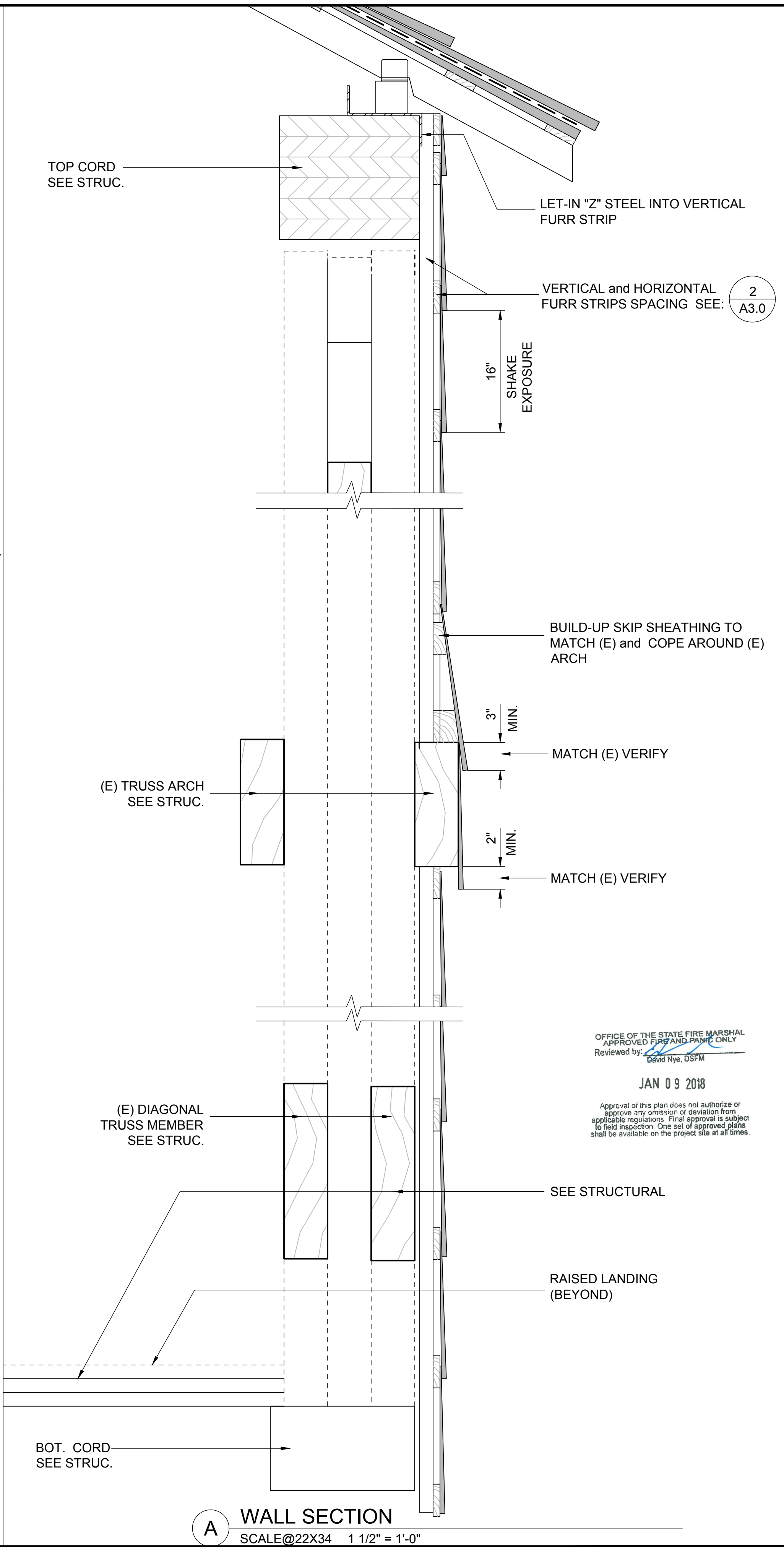
DRAWING NO.  
30419.028

SHEET NO.  
**A3.0**

028 OF 030



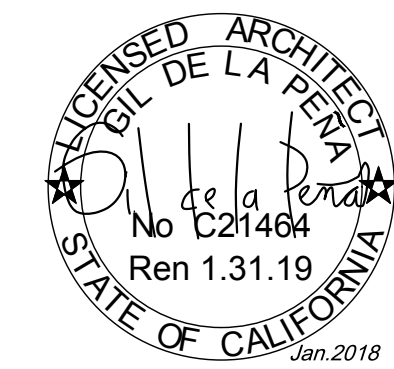
**B** SECT. DET. ROOF SHAKE  
SCALE@22X34 1 1/2" = 1'-0"



**A** WALL SECTION  
SCALE@22X34 1 1/2" = 1'-0"



ACQUISITION & DEVELOPMENT DIVISION  
One Capitol Mall  
Sacramento, CA  
95814-3229



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Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # 18-025

Reviewed by: *ASB* Date: *1/18/18*

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: DESIGNER  
DRAWN: STAFF  
CHECKED: SUPERVISOR  
DATE: DECEMBER 2017

REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
ARCHITECTURAL DETAILS

DRAWING NO.  
30419.029

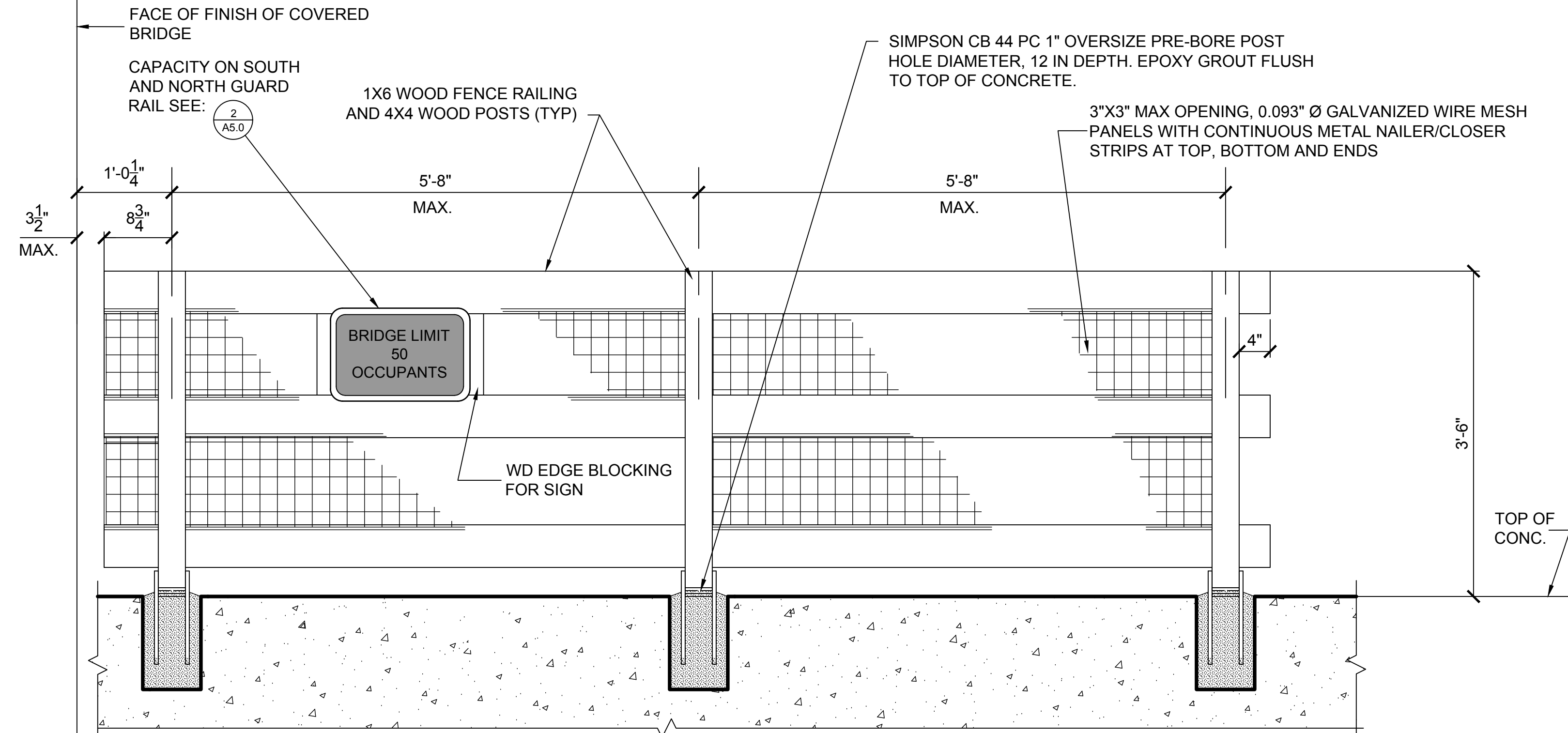
SHEET NO.  
A4.0

029 OF 030

18" X 12"  
BRIDGE LIMIT  
50  
OCCUPANTS

BASED ON: RS-038F  
OF THE "CALIFORNIA STATE SIGN  
HANDBOOK" STANDARD STATE PARK  
COLORS

2 CAPACITY SIGN  
SCALE@22X34 1 1/2" = 1'-0"



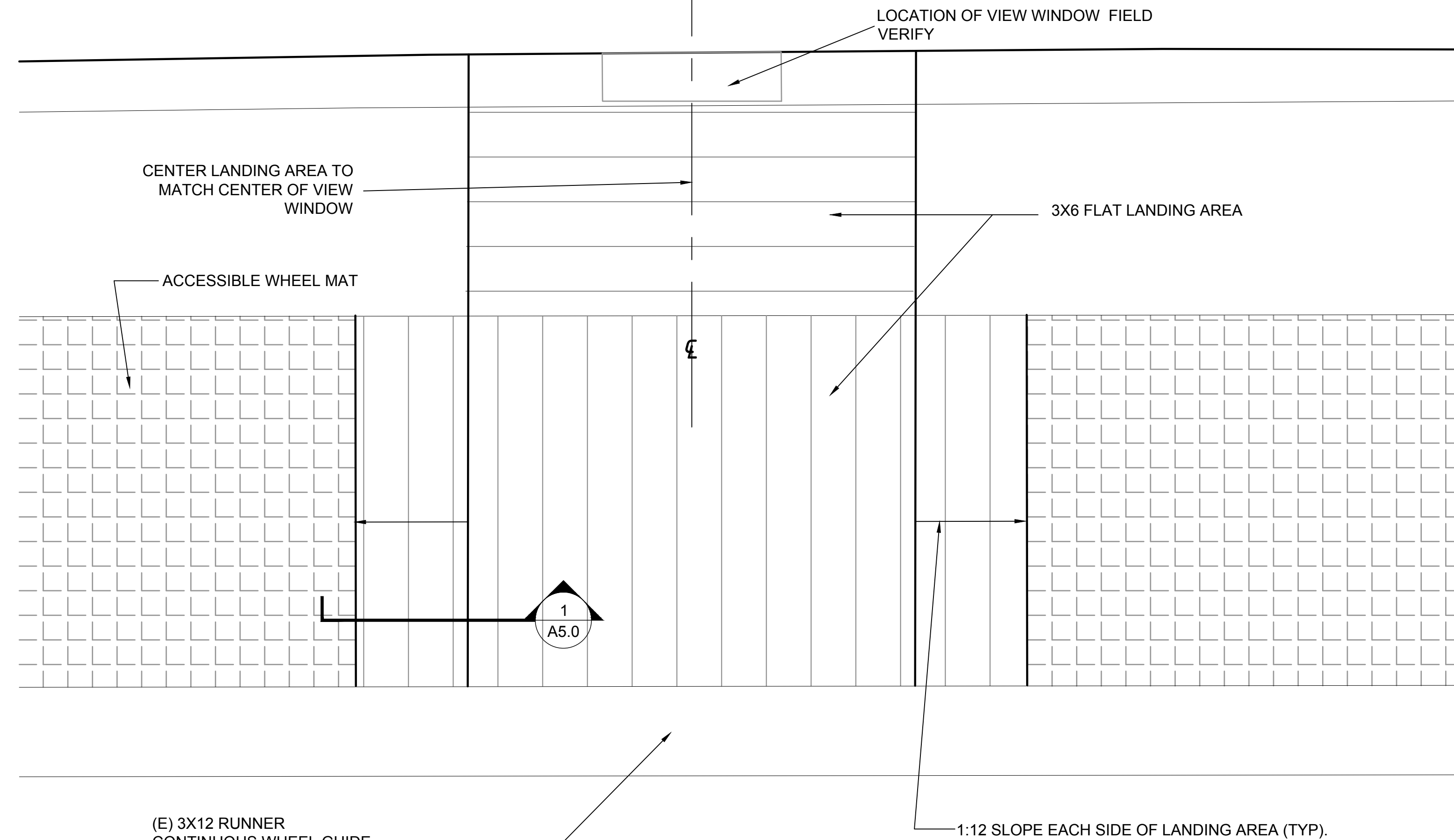
NOTE: GUARDRAIL SHALL EXTEND 4 FEET (MIN.) BEYOND FALL HAZARD. FALL HAZARD HERE WILL BE CONSIDERED A 30" VERTICAL DROP, WHERE DROP IS NOT PROVIDED WITH A 2:1 SLOPE WITH HORIZONTAL DISTANCE OF 5 FEET (FIELD VERIFY)

OFFICE OF THE STATE FIRE MARSHAL  
APPROVED FIRE AND PANE ONLY  
Reviewed by: David Nye, DSFM

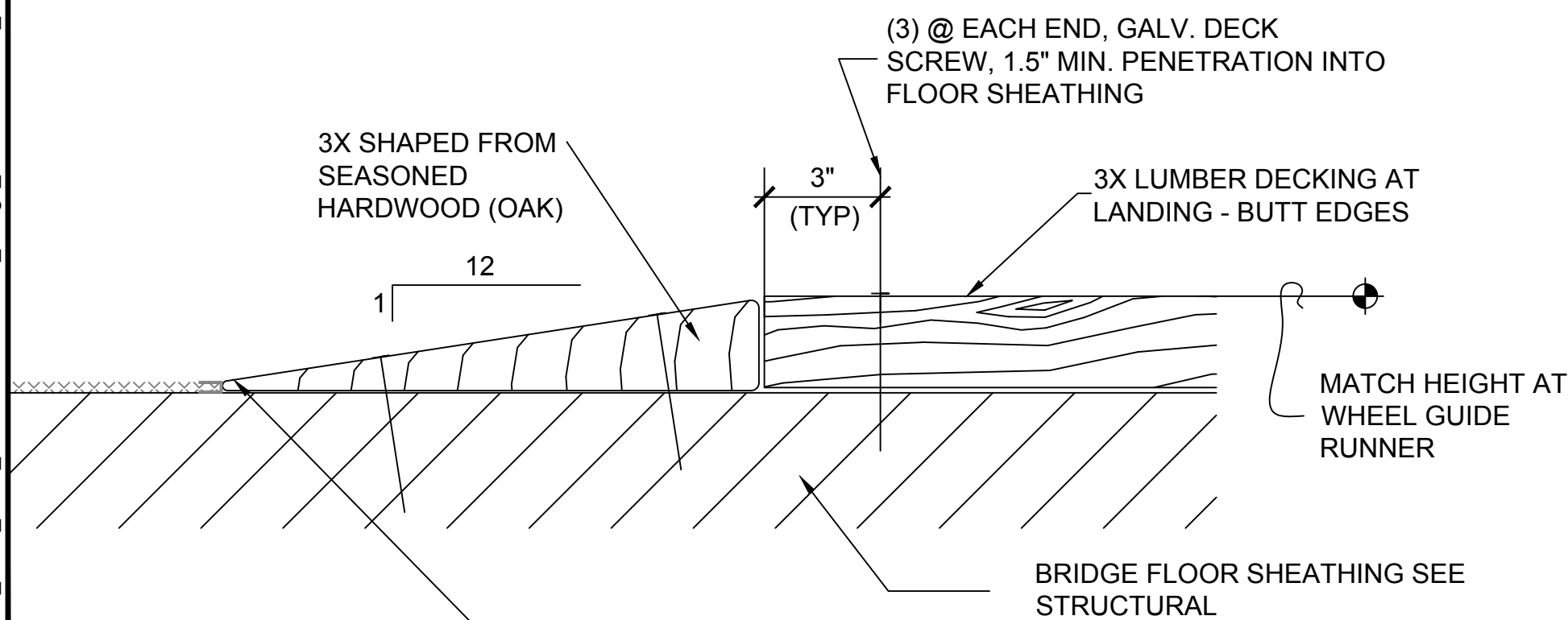
JAN 09 2018

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A GUARDRAIL ELEVATION  
SCALE@22X34 1" = 1'-0"



B RAMP-LANDING  
SCALE@22X34 1" = 1'-0"



1 SECTION DETAIL  
SCALE@22X34 3" = 1'-0"



ACQUISITION & DEVELOPMENT DIVISION  
One Capitol Mall  
Sacramento, CA  
95814-3229



CALIFORNIA STATE FIRE MARSHAL- APPROVED  
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Reviewed by: Date:

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # 18-025

Reviewed by: Date:

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DESIGNED: DESIGNER  
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REVISIONS	
NO.	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
ARCHITECTURAL DETAILS

DRAWING NO.  
30419.030

SHEET NO.  
A5.0

030 OF 030