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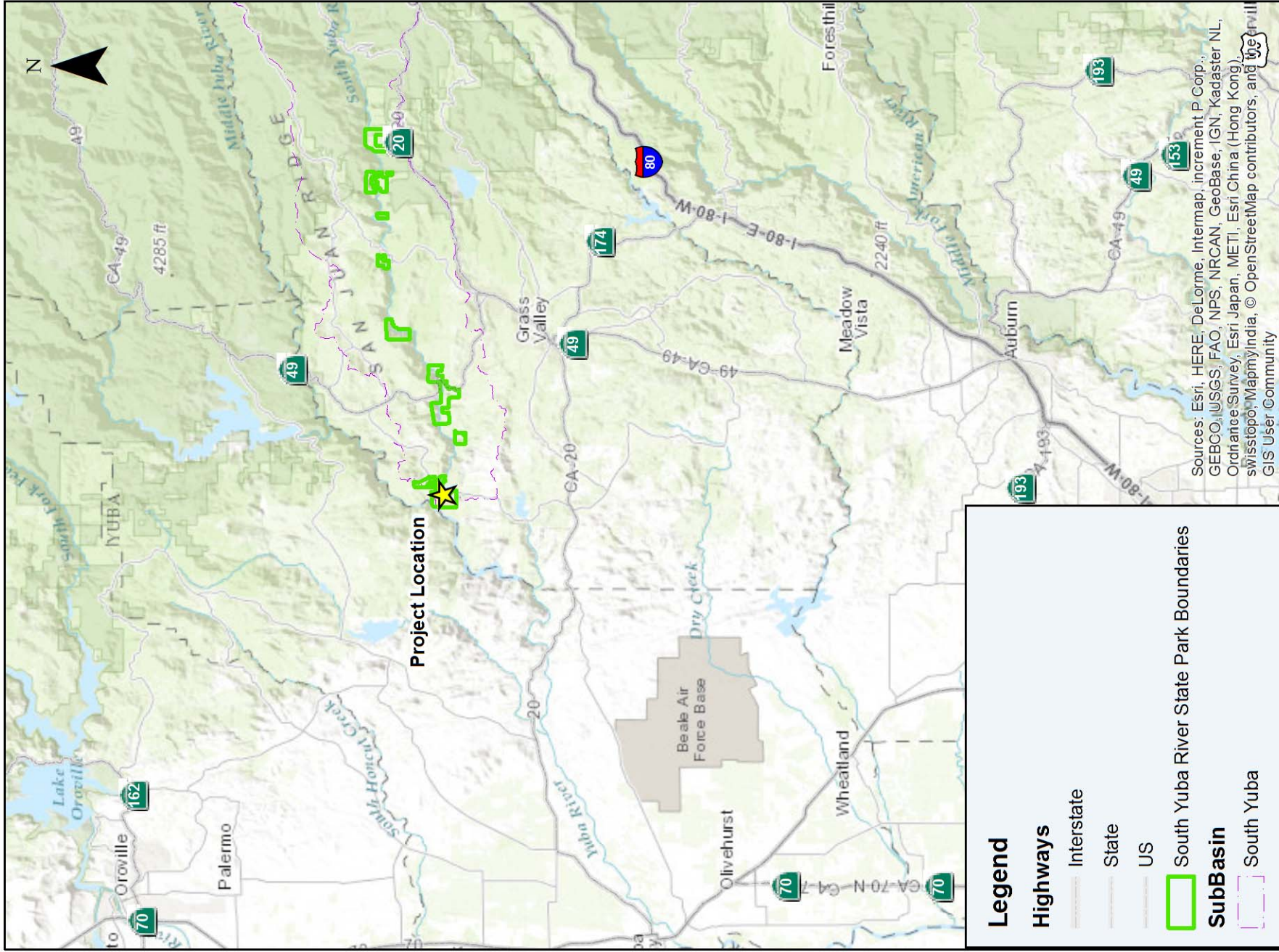
# Bridgeport Covered Bridge Project Area











**Project Location**

**Legend**

**Highways**

- Interstate
- State
- US

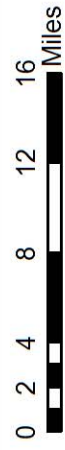
**South Yuba River State Park Boundaries**

**SubBasin**

- South Yuba

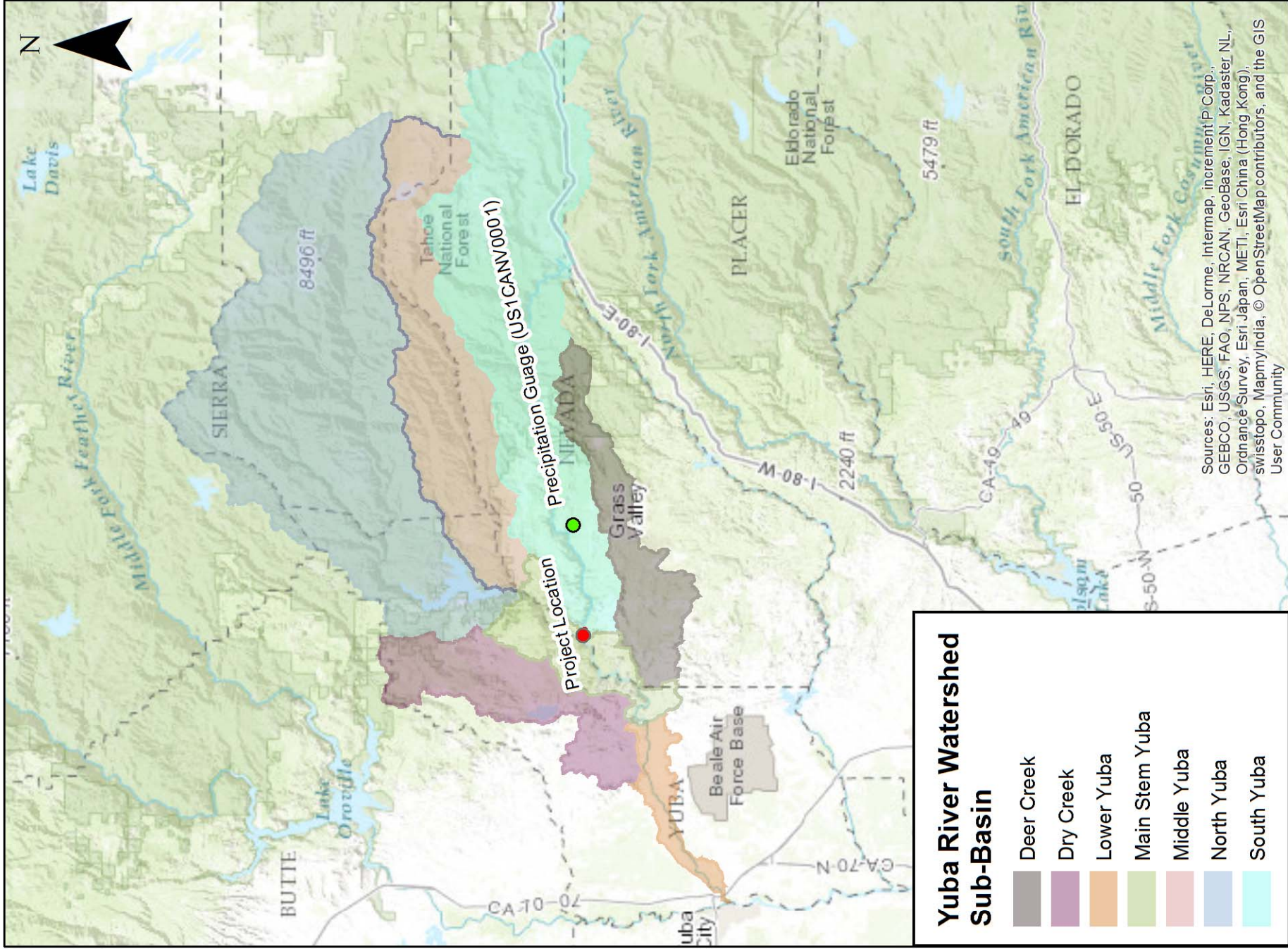


**California State Parks**  
 Northern Service Center  
 Resource Services Section



Sources: Esri, HERE, DeLorme, Intermap, increment P. Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community





### Yuba River Watershed Sub-Basin

- Deer Creek
- Dry Creek
- Lower Yuba
- Main Stem Yuba
- Middle Yuba
- North Yuba
- South Yuba



**California State Parks**  
Northern Service Center  
Resource Services Section

Sources: Esri, HERE, DeLorme, Intermap, increment p Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

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# CALIFORNIA DEPARTMENT OF PARKS AND RECREATION ACQUISITION AND DEVELOPMENT DIVISION SOUTH YUBA RIVER STATE PARK COVERED BRIDGE REHAB

(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

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.  
2013 CA ADMINISTRATIVE CODE TITLE 24, PT 1.  
2013 CA BUILDING CODE (CBC) TITLE 24, PT 2.  
2013 CA ELECTRICAL CODE (CEC) TITLE 24, PT 3.  
2013 CA MECHANICAL CODE (CMC) TITLE 24, PT 4  
2013 CA PLUMBING CODE (CPC) TITLE 24, PT 5.  
2013 CA ENERGY CODE CCR TITLE 24, PT 6.  
2013 CA GREEN BUILDING STANDARDS TITLE 24, PT 11.  
2013 CA REFERENCED STANDARDS TITLE 24, PT 12.  
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.

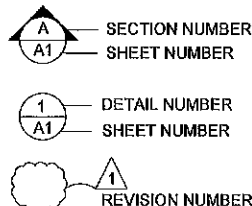
7-THE CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND EXISTING CONDITIONS AT THE SITE AND SHALL REPORT ANY DISCREPANCIES IN WRITING TO THE STATE REPRESENTATIVE PRIOR TO SUBMITTALS

8-ALL DIMENSIONS ARE GIVEN FROM THE FACE OF CONCRETE, CONCRETE MASONRY UNITS, STRUCTURAL STEEL, STUD OR CENTERLINE OF PARTITION UNLESS OTHERWISE NOTED

### GENERAL NOTES

- THIS IS A REGISTERED HISTORICAL PLACE AND STRUCTURE.
- OCCUPANCY CLASSIFICATION AND USE U
- BUILDING CONSTRUCTION TYPE V-B
- NUMBER OF STORIES 1
- ACTUAL BUILDING HEIGHT 28'6"
- BUILDING AREA IN SQUARE FEET 2470
- AREA OF PROJECT IN SQUARE FEET NO CHANGE
- ALLOWABLE AREA PER C.B.C. 5500
- FIRE ALARM NO
- TYPE: (MANUAL, AUTOMATIC, ETC)
- OTHER FIRE PROTECTION SYSTEMS, IF ANY HYDRANT
- SMOKE CONTROL SYSTEM NO
- OCCUPANT LOAD (Posted based on struct capacity) 50
- YEAR BUILDING WAS CONSTRUCTED 1812
- IN A HIGH FIRE HAZARD SEVERITY ZONE? YES

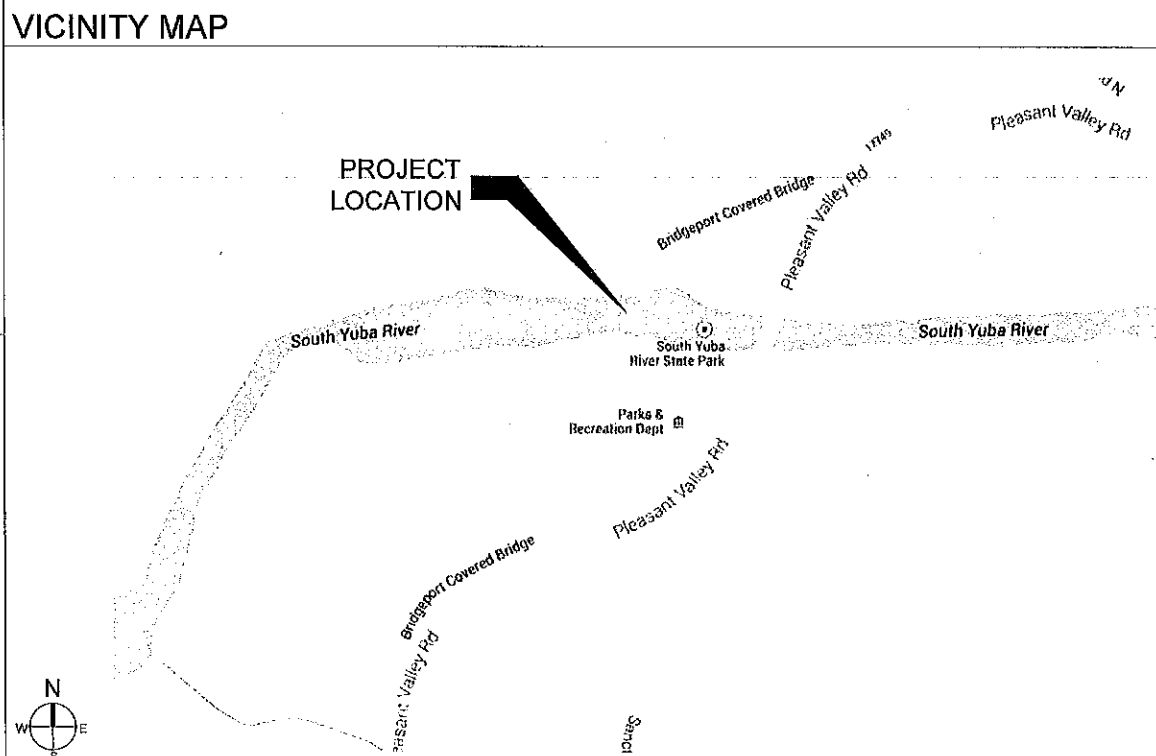
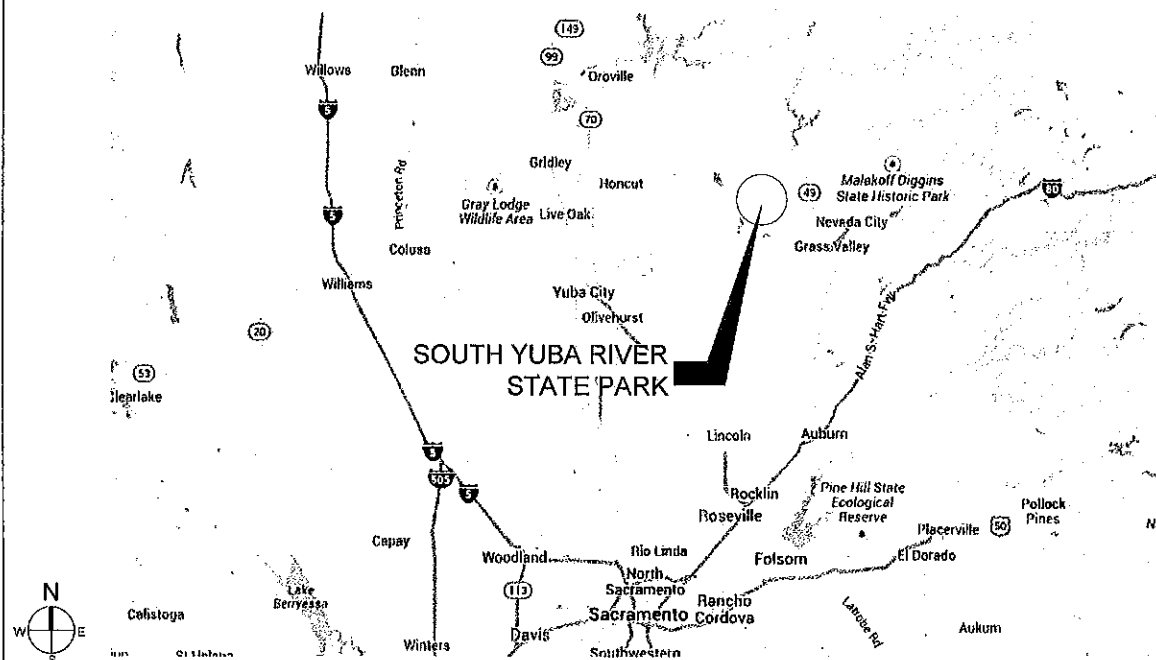
### BUILDING CODE REVIEW



### SYMBOLS LEGEND

- (N) STABILIZED SOIL
- CONCRETE BLOCK
- CONCRETE
- PLYWOOD
- WOOD FRAMING
- WOOD BLOCKING
- WOOD, FINISH
- METAL
- UNDISTURBED SOIL
- DISTURBED SOIL
- (N) CONCRETE PAVING
- (N) AC PAVING

### MATERIAL LEGEND



### LOCATION MAP

- G1.0 COVER SHEET
- G2.0 ABBREVIATIONS
- S0.01 GENERAL NOTES
- S0.02 GENERAL NOTES
- S0.03 TYPICAL DETAILS
- S1.01 DEMOLITION PLAN
- P-001 SHORING PLAN
- S2.01 BRIDGE FOUNDATION PLAN
- S2.02 SOUTH BRIDGE ABUTMENT PLAN
- S2.03 NORTH BRIDGE ABUTMENT PLAN
- S2.04 BRIDGE FLOOR DECK & TOP CHORD 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 ELEVATION
- A4.0 ARCHITECTURAL DETAILS
- A5.0 ARCHITECTURAL DETAILS

### SHEET INDEX

### APPROVAL

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

DESIGNED: DESIGNER  
DRAWN: STAFF  
CHECKED: SUPERVISOR  
DATE: 12.08.2015

REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
COVERED BRIDGE REHAB  
COVER SHEET

DRAWING NO.  
30419.XXX

SHEET NO.  
G1.0

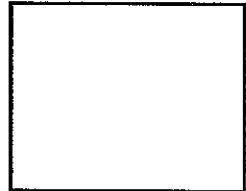
XXX OF 029



&	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	PT	POINT
ACI	AMERICAN CONCRETE INSTITUTE	ES	EXISTING SURFACE	PTD	PAPER TOWEL DISPENSER
ACP	ASBESTOS CEMENT PIPE	EXP	EXPANSION	PTDF	PRESSURE-TREATED DOUGLAS FIR
ACST	ACOUSTIC	FOF	FACE OF FINISH		
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. STL. OR S.S.	STAINLESS STEEL
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	TOW	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	WH	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 RECEPTICLE
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				



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  
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project site at all times.  
Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_  
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: 12.08.2015

REVISIONS	
NO.	DATE

SOUTH YUBA RIVER STATE PARK  
COVERED BRIDGE REHAB

ABBREVIATIONS

DRAWING NO.  
30419.XXX

SHEET NO.  
**G2.0**  
XXX OF 029



# GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

## GENERAL NOTES

- INTERPRETATION OF DRAWINGS & SPECIFICATIONS
  - FOR CONVENIENCE, SPECIFICATIONS HAVE BEEN PREPARED FOR THIS PROJECT AND ARE ARRANGED IN SEVERAL SECTIONS, BUT SUCH SEPARATION SHALL NOT BE CONSIDERED AS THE LIMITS OF THE WORK REQUIRED OF ANY SEPARATE TRADE. THE TERMS AND CONDITIONS OF SUCH LIMITATIONS ARE WHOLLY BETWEEN THE CONTRACTOR AND HIS SUBCONTRACTORS.
  - IN GENERAL, THE WORKING DETAILS WILL INDICATE DIMENSIONS, POSITION AND KIND OF CONSTRUCTION, AND THE SPECIFICATIONS, QUALITIES AND METHODS. ANY WORK INDICATED ON THE WORKING DETAILS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, SHALL BE FURNISHED AS THOUGH FULLY SET FORTH IN BOTH. WORK NOT PARTICULARLY DETAILED, MARKED OR SPECIFIED, SHALL BE THE SAME AS SIMILAR PARTS THAT ARE DETAILED, MARKED OR SPECIFIED. IF CONFLICTS OCCUR ON DRAWINGS AND/OR SPECIFICATIONS, THE MOST EXPENSIVE MATERIALS OR METHODS WILL PREVAIL.
  - SHOULD AN ERROR APPEAR IN THE WORKING DETAILS OR SPECIFICATIONS OR IN WORK DONE BY OTHERS AFFECTING THIS WORK, THE CONTRACTOR SHALL NOTIFY THE STATES REPRESENTATIVE AT ONCE AND IN WRITING. IF THE CONTRACTOR PROCEEDS WITH THE WORK SO AFFECTED WITHOUT HAVING GIVEN SUCH WRITTEN NOTICE AND WITHOUT RECEIVING THE NECESSARY APPROVAL, DECISION OR INSTRUCTIONS IN WRITING FROM THE STATE, THEN HE SHALL HAVE NO VALID CLAIM AGAINST THE STATE, FOR THE COST OF SO PROCEEDING AND SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT. NO VERBAL APPROVAL, DECISION, OR INSTRUCTION SHALL BE VALID OR BE THE BASIS FOR ANY CLAIM AGAINST THE STATE, ITS OFFICERS, EMPLOYEES OR AGENTS. THE FOREGOING INCLUDES TYPICAL ERRORS IN THE SPECIFICATIONS OR NOTATIONAL ERRORS IN THE WORKING DETAILS WHERE THE INTERPRETATION IS DOUBTFUL OR WHERE THE ERROR IS SUFFICIENTLY APPARENT AS TO PLACE A REASONABLY PRUDENT CONTRACTOR ON NOTICE THAT, SHOULD HE ELECT TO PROCEED, HE IS DOING SO AT HIS OWN RISK.
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS.
- SHOP DRAWING NOTE:
  - WHEN NOT ADDRESSED BY DIVISION 1 OF THE SPECIFICATIONS, PAPER FORMAT STRUCTURAL SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF THREE COPIES MINIMUM OF EACH SHEET.
  - THE PURPOSE OF SHOP DRAWINGS SUBMITTED BY THE CONTRACTOR IS TO DEMONSTRATE TO THE STRUCTURAL ENGINEER THAT HE UNDERSTANDS THE DESIGN CONCEPT BY INDICATING WHICH MATERIAL HE INTENDS TO FURNISH AND INSTALL, AND BY DETAILING THE FABRICATION AND INSTALLATION METHODS HE INTENDS TO USE ON A STAND ALONE SET OF DOCUMENTS. DUPLICATION OF DESIGN DOCUMENTS FOR THE PURPOSE OF SHOP DRAWINGS IS NOT ACCEPTABLE.
  - PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER. SHOP DRAWING SUBMITTALS SHALL INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STRUCTURAL STEEL, REINFORCING STEEL, & GLUED LAMINATED BEAMS.
  - PRIOR TO SUBMISSION THE CONTRACTOR SHALL REVIEW ALL SUBMITTALS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS AND SHALL STAMP SUBMITTALS AS BEING "REVIEWED FOR CONFORMANCE".
  - SHOP DRAWING SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
  - ANY DETAIL ON THE SHOP DRAWING THAT DEVIATES FROM THE CONTRACT DOCUMENTS SHALL CLEARLY BE MARKED WITH THE NOTE "THIS A CHANGE".
  - SHOP DRAWINGS OR CALCULATIONS SUBMITTED FOR REVIEW THAT REQUIRE RESUBMITTAL FOR RE-REVIEW SHALL BE BILLED HOURLY FOR SUCH TIME TO THE GENERAL CONTRACTOR. RE-REVIEW WILL NOT PROCEED WITHOUT WRITTEN APPROVAL FROM THE GENERAL CONTRACTOR FOR ADDITIONAL ENGINEERING REVIEW SERVICES.
- SAFETY NOTE:
  - IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION, AND ALL OSHA REQUIREMENTS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMS AND SHORING REQUIRED. SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DRAWINGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE STATE AND THE STRUCTURAL ENGINEER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY THE STATES REPRESENTATIVE AND STRUCTURAL ENGINEER WHERE A CONFLICT OR DISCREPANCY OCCURS BETWEEN THE STRUCTURAL DRAWINGS AND ANY OTHER PORTION OF THE CONTRACT DOCUMENTS OR EXISTING FIELD CONDITIONS. SUCH NOTIFICATION SHALL BE GIVEN IN DUE TIME SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. IN CASE OF A CONFLICT BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS THE MORE RESTRICTIVE CONDITION SHALL TAKE PRECEDENCE UNLESS WRITTEN APPROVAL HAS BEEN GIVEN FOR THE LEAST RESTRICTIVE. CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH STATES REPRESENTATIVE PRIOR TO COMMENCING ANY WORK.
- WHERE NO SPECIFIC DETAIL IS SHOWN, THE CONSTRUCTION SHALL BE IDENTICAL OR SIMILAR TO THAT INDICATED FOR LIKE CASES OF CONSTRUCTION ON THIS PROJECT. SHOULD THERE BE ANY QUESTION, CONTACT THE STATES REPRESENTATIVE AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING.
- WHEN CONSTRUCTION ATTACHES TO OR IS WITHIN AN EXISTING BUILDING, A COMPLETE SET OF DRAWINGS OF THE EXISTING BUILDING SHALL BE KEPT ON THE JOB SITE. CONTRACTOR TO OBTAIN THESE DRAWINGS FROM THE OWNER (IF THEY ARE AVAILABLE).
- ANY SUBSTITUTIONS FOR STRUCTURAL MEMBERS, HARDWARE OR DETAILS SHALL BE REVIEWED BY THE ARCHITECT AND STRUCTURAL ENGINEER. SUCH REVIEW WILL BE BILLED ON A TIME AND MATERIALS BASIS TO THE GENERAL CONTRACTOR WITH NO GUARANTEE THAT THE SUBSTITUTION WILL BE ALLOWED.
- DO NOT SCALE DRAWINGS. CONTACT THE STATES REPRESENTATIVE OR STRUCTURAL ENGINEER FOR ANY DIMENSIONS NOT SHOWN.
- THESE DRAWINGS ARE NOT COMPLETE UNTIL REVIEWED AND ACCEPTED BY STATE OFFICIALS AND SIGNED BY THE STATES REPRESENTATIVE AND THE STRUCTURAL ENGINEER.

## ABBREVIATIONS

AB	ANCHOR BOLT	LS	LAG SCREW
ABV	ABOVE	MB	MACHINE BOLT
AR	ANCHOR ROD	MFR	MANUFACTURER
BLW	BELOW	MI	MALLEABLE IRON
BOF	BOTTOM OF FOOTING	MTL	METAL
BRG	BEARING	(N)	NEW
BET	BETWEEN	NIC	NOT IN CONTRACT
C/C	CENTER TO CENTER	NS	NEAR SIDE
CTJ	CONTROL JOINT	NTS	NOT TO SCALE
CJP	COMPLETE JOINT PENETRATION	NW	NORMAL WEIGHT
CLR	CLEAR	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	PC	PIECE
CJ	CONSTRUCTION JOINT	PJP	PARTIAL JOINT PENETRATION
CONT	CONTINUOUS	SC	SLIP CRITICAL
CONTR	CONTRACTOR	SHTG	SHEATHING
CSK	COUNTERSINK	SIM	SIMILAR
DL	DEAD LOAD	SMS	SHEET METAL SCREW
DO	DITTO	SP	STRUCTURAL PANEL
DWG	DRAWING	STIFF	STIFFENER
(E)	EXISTING	STGRD	STAGGERED
EF	EACH FACE	STL	STEEL
EJ	EXPANSION JOINT	T&B	TOP & BOTTOM
EL	ELEVATION	THD	THREADED
EN	EDGE NAILING	TO	TOP OF
EOS	EDGE OF SLAB	TOC	TOP OF CONCRETE (SLAB UNO)
EQ	EQUAL	TOF	TOP OF FOOTING OR TOP OF FRAMING
EW	EACH WAY	TOS	TOP OF STEEL
EWEF	EACH WAY EACH FACE	TOW	TOP OF WALL
FB	FACE OF BLOCK (OR BRICK) OR FLAT BAR	UNO	UNLESS NOTED OTHERWISE
FC	FACE OF CONCRETE	W	WITH
FF	FINISH FLOOR	WO	WITHOUT
FS	FACE OF STUD OR FAR SIDE	WP	WORK POINT
GA	GAUGE OR GAGE	WS	WOOD SCREW
HB	HEADED BOLT	WWF	WELDED WIRE FABRIC
HDR	HEADER	CL	CENTERLINE
HSB	HIGH STRENGTH BOLT	PL	PLATE
HSS	HOLLOW STRUCTURAL SECTION	WF	WIDE FLANGE
HT	HEIGHT	#	NUMBER OR POUNDS
JH	JOIST HANGER	SQ	SQUARE
LL	LIVE LOAD	Ø	ROUND OR DIAMETER
LLH	LONG LEG HORIZONTAL	(A)	"MEMBER" ABOVE
LLV	LONG LEG VERTICAL	(B)	"MEMBER" BELOW

## DESIGN CRITERIA

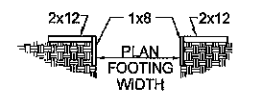
- CODES AND STANDARDS
  - 2013 CALIFORNIA BUILDING CODE
  - ASCE 7-10
  - ACI 318-11
  - AISC 360-10, AISC 341-10
  - 2012 NDS, 2008 SDPWS
- VERTICAL LOADS
  - BRIDGE DECK LIVE LOAD = 65 PSF
- SOILS VALUES
  - FOOTING
    - MINIMUM DEPTH = 18"
    - MINIMUM WIDTH = 24"
    - PASSIVE RESISTANCE = 150 PCF
    - FRICTION = 0.40
    - (REDUCE FRICTION BY 50% WHERE COMBINED WITH PASSIVE)
  - MICROPILES
    - (SEE 35.03)
- LATERAL LOADS
  - SEISMIC:
    - SITE CLASS: C
    - S<sub>s</sub> = 0.590 ; S<sub>0.1</sub> = 0.452
    - S<sub>w</sub> = 0.247 ; S<sub>0.2</sub> = 0.256
    - R = 1.25
    - Q<sub>d</sub> = 2.0 ; Q<sub>d</sub> = 2.5
    - I<sub>e</sub> = 1.0 TYPICAL
    - RISK CATEGORY: II
  - SEISMIC DESIGN CATEGORY: D
  - SEISMIC BASE SHEAR
    - = 88 KIPS (NVS DIR.)
    - = 96 KIPS (EAW DIR.)
  - SEISMIC FORCE RESISTING SYSTEM: CONCRETE ABUTMENT (ALL OTHER STRUCTURES)
  - LATERAL ANALYSIS PROCEDURE: LINEAR STATIC
  - WIND:
    - V<sub>0.1</sub> = 110 MPH ; V<sub>0.2</sub> = 85 MPH
    - RISK CATEGORY: II
    - EXPOSURE CATEGORY: C

## STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

- SPECIAL INSPECTIONS AND TESTING SHALL BE PROVIDED BY AN INSPECTION AGENCY, EMPLOYED BY THE CONTRACTOR, AND QUALIFIED BY THE BUILDING OFFICIAL TO INSPECT THE PARTICULAR TYPE OF CONSTRUCTION. TESTS AND INSPECTIONS, AS REQUIRED BY SECTIONS 110, 1704, 1705.10, 1705.11 AND 1705.12 OF THE 2013 CBC, SHALL BE PERFORMED DURING CONSTRUCTION ON THE TYPES OF WORK LISTED BELOW:
  - STRUCTURAL STEEL CONSTRUCTION SECTION 1705.2.1
  - CONCRETE CONSTRUCTION SECTION 1705.3
  - MASONRY CONSTRUCTION-LEVEL B SECTION 1705.4
  - SOILS SECTION 1705.6
  - POST-INSTALLED ANCHORS SEE DRILLED-IN ANCHOR NOTES
  - BRIDGE ROD TUNING
  - MICROPILES SEE 4/55.03
- INSPECTIONS SHALL BE CONTINUOUS OR PERIODIC AS NOTED FOR THE INDIVIDUAL MATERIAL OR COMPONENT INSPECTION SECTIONS AND TABLES NOTED ABOVE.
- THE SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS TO THE STATES REPRESENTATIVE AND THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. THE REPORTS SHALL INDICATE WHETHER WORK INSPECTED CONFORMED TO THE CONSTRUCTION DOCUMENTS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE STATES REPRESENTATIVE AND THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- ALL SPECIAL INSPECTION AGENCIES / INDIVIDUALS AND SHOP FABRICATORS SHALL BE APPROVED BY THE STATES REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK.
- TESTING AND INSPECTION RECORDS SHALL BE RETAINED UNTIL COMPLETION OF CONSTRUCTION.
- ALL SOILS AND FOUNDATION EXCAVATION INSPECTIONS SHALL BE BY THE GEOTECHNICAL ENGINEER OF RECORD.
- FOR TESTING AND INSPECTION REQUIREMENTS FOR NON-STRUCTURAL MATERIALS AND COMPONENTS, SEE CONSTRUCTION DOCUMENTS AND COMPLY WITH CHAPTER 17 OF THE 2013 CBC.

## FOUNDATIONS

- ALL FOUNDATION WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS REPORT #59039-05-41 BY GEOCON CONSULTANTS, INC DATED MAY 2015.
- FOUNDATIONS SHALL BE MICROPILES. SEE 4/55.03
- ALL FILLING, BACKFILLING AND COMPACTION SHALL BE DONE UNDER THE OBSERVATION OF A REPRESENTATIVE OF THE SOILS ENGINEER OF RECORD AND MUST BE COMPACTED TO THE MINIMUM DENSITY SPECIFIED IN ACCORDANCE WITH THE PROCEDURE OUTLINED IN THE SOILS REPORT.
- BUILDING PAD CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE SOILS REPORT. THE EXTENT AND DEPTH OF OVEREXCAVATION AND PLACEMENT OF ENGINEERED FILL SHALL AT A MINIMUM BE AS SHOWN ON THE PLANS. FINAL DEPTH AND EXTENT OF EXCAVATION AND FILL SHALL BE DETERMINED AT TIME OF CONSTRUCTION BY A REPRESENTATIVE OF THE SOILS ENGINEER. FOUNDATION DEPTHS INDICATED ON PLANS ARE FOR ESTIMATING PURPOSES ONLY.
- BOTTOMS OF ALL FOUNDATIONS SHALL BE LEVEL. CHANGES IN BOTTOM OF FOUNDATION ELEVATION SHALL BE MADE ACCORDING TO STEPPED FOOTING DETAIL ON THE TYPICAL DETAIL SHEET. FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE EXCAVATIONS ARE STABLE (AS DETERMINED BY A REPRESENTATIVE OF THE SOILS ENGINEER). OTHERWISE, FOUNDATIONS SHALL BE FULLY FORMED. USE MINIMUM PLANKING SHOWN TO PROTECT AGAINST SLOUGHING, AS REQUIRED. PLANKING DOES NOT REPLACE FORMWORK REQUIRED TO STABILIZE EXCAVATION. - SEE BELOW.
- THE SURFACE OF ALL HORIZONTAL CONSTRUCTION JOINTS SHALL BE CLEANED & ROUGHENED BY EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN MORTAR MATRIX.
- NOTIFY THE STRUCTURAL ENGINEER 48 HOURS BEFORE CASTING FOUNDATIONS.
- A REPRESENTATIVE OF THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
  - THE FOUNDATION EXCAVATION DEPTH AND MATERIAL ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY; AND FORMING COMPLY WITH THE SOILS REPORT AND APPROVED PLAN.



## WOOD

- ALL STRUCTURAL WOOD SHALL CONFORM WITH THE FOLLOWING SPECIFICATIONS:
  - DOUGLAS FIR - COAST REGION - WCLB GRADING RULES #17 OR WWPVA STANDARD GRADING RULES FOR WESTERN LUMBER.
  - 2X, 3X AND 4X MEMBERS - SELECT STRUCTURAL UNO.
  - 6X AND LARGER MEMBERS - SELECT STRUCTURAL UNO.
  - MEMBERS 3X AND LARGER SHALL BE FREE OF HEART CENTER.
  - REDWOOD - CALIFORNIA REDWOOD, RIS.
  - PRESSURE TREATED DOUGLAS FIR - TYPE AS APPROPRIATE FOR EXTERIOR ABOVE GROUND USE AS SPECIFIED, BY AWPA.
- ALL DOUGLAS FIR WOOD IN DIRECT CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED, EXCEPT LEDGERS, WHICH DO NOT NEED TO BE PRESSURE TREATED.
- FIELD CUTS AND BOLT HOLES IN PRESSURE TREATED WOOD SHALL BE PROTECTED IN ACCORDANCE WITH AWPA STANDARD M4.
- THE MOISTURE CONTENT OF 2X MATERIAL AT TIME OF INITIAL USE SHALL BE LESS THAN 12%. THE MOISTURE CONTENT OF LUMBER 3X AND LARGER AT TIME OF INITIAL USE SHALL BE LESS THAN 12% UNO.
- HOLES FOR BOLTS IN WOOD SHALL BE BORED WITH A BIT OF THE SAME NOMINAL DIAMETER AS THE BOLT PLUS 1/16".
- HOLES FOR LAG SCREWS SHALL BE FIRST BORED TO THE SAME DIAMETER AND DEPTH AS THE UNTHREADED SHANK. THE THREADED PORTION SHALL BE DRILLED TO 50% OF THE SHANK DIAMETER UNLESS NOTED OTHERWISE IN THE SPECIFICATIONS.
- LAG SCREWS AND WOOD SCREWS SHALL BE SCREWED AND NOT DRIVEN INTO PLACE. SOAP MAY BE USED TO LUBRICATE SCREWS.
- ALL BOLTS AND LAG SCREWS SHALL BE PROVIDED WITH METAL WASHERS UNDER HEADS AND NUTS WHICH BEAR ON WOOD. APPLIES ALSO TO EXPANDING AND ADHESIVE FASTENERS. SQUARE STEEL WASHERS SHALL BE SIMPSON 6P OR 6PS TYPE (3" SQ. MIN. W/ STD CUT WASHER WHERE REQ'D BY CODE). MALLEABLE IRON (MI) WASHERS SHALL BE SQUARE AND CAST. STANDARD FLAT WASHERS SHALL BE PER ANCI 5.10.2.1 TYPE A - WIDE PATTERN. ALL WASHERS FOR SILL ANCHORS SHALL BE SQUARE STEEL AND SHALL BE HOT-DIPPED GALVANIZED.
- ALL BOLTS AND LAG SCREWS SHALL BE TIGHTENED ON INSTALLATION AND RETIGHTENED BEFORE CLOSING IN OR AT COMPLETION OF JOB.
- ALL BOLTS SHALL BE FULL NOMINAL DIMENSION AT UNTHREADED PORTION. NO UPSET THREADED BOLTS ALLOWED.
- ALL FASTENERS SHALL BE HOT-DIPPED GALVANIZED.
- FRAMING HARDWARE SHOWN ON THE PLANS IS SIMPSON STRONG-TIE. USE FRAMING HARDWARE AS MANUFACTURED BY SIMPSON COMPANY OR EQUIVALENT. PRIOR TO INSTALLATION OF ANY NON-SIMPSON HARDWARE, THE CONTRACTOR SHALL SUBMIT A LIST OF ALL DETAIL REFERENCES WHERE A HARDWARE SUBSTITUTION IS PROPOSED. THE DESIGNATION FOR THE SIMPSON ITEM AND NON-SIMPSON PROPOSED EQUIVALENT AND AN ICC REPORT FOR EACH SUBSTITUTION ITEM.

STRUCTURAL SHEET INDEX	
S0.01	GENERAL NOTES
S0.02	GENERAL NOTES
S0.03	TYPICAL DETAILS
S1.01	DEMOLITION PLAN
S1.02	SHORING PLAN
S2.01	BRIDGE FOUNDATION PLAN
S2.02	SOUTH BRIDGE ABUTMENT PLAN
S2.03	NORTH BRIDGE ABUTMENT PLAN
S2.04	BRIDGE FLOOR DECK & TOP CHORD 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



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 # \_\_\_\_\_

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

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

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

REVISIONS	
NO.	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
GENERAL NOTES

DRAWING NO.  
30350.011

SHEET NO.  
S0.01

003 OF 029



# GENERAL NOTES

APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE

## CONCRETE

- STRUCTURAL CONCRETE SHALL ATTAIN 28 DAY COMPRESSIVE STRENGTH AS REQUIRED IN NOTE #28. MAXIMUM SLUMP SHALL NOT EXCEED 4 INCHES.
- CONCRETE MIX DESIGNS SHALL BE PREPARED BY A REGISTERED CIVIL ENGINEER, REVIEWED BY CONTRACTOR'S TESTING LABORATORY AND SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- CEMENTITIOUS MATERIALS:  
CEMENT SHALL CONFORM TO ASTM C-150 TYPE I OR II.  
FLY ASH SHALL CONFORM TO ASTM C-618. MAX. QUANTITY OF FLY ASH SHALL BE AS GIVEN IN SPECS (15% MAX UNO).
- CONCRETE AGGREGATES SHALL CONFORM TO ASTM C-33 FOR NORMAL WEIGHT CONCRETE AND ASTM C-330 FOR LIGHTWEIGHT CONCRETE.
- NON-SHRINK GROUT OR DRYPACK SHALL CONSIST OF A PREMIXED NONMETALLIC FORMULA.
- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 FOR #3 AND LARGER, EXCEPT REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706. CONTRACTOR SHALL SUBMIT REBAR MILL CERTIFICATES. ALL REINFORCING SHALL BE EPOXY COATED AND CONFORM TO ASTM A-775. EPOXY COATED BARS SHALL BE INSPECTED PRIOR TO CONCRETE PLACEMENT. ANY DAMAGED COATINGS SHOULD BE REPAIRED ACCORDING TO ASTM A-775. PLASTIC HEADED VIBRATORS SHOULD BE USED FOR CONCRETE CONSOLIDATION.
- ALL PREHEATING AND WELDING OF REINFORCING BARS SHALL BE DONE IN ACCORDANCE WITH AWS D1.4 LATEST EDITION AND SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY. CONTRACTOR SHALL FURNISH SPECS FOR ALL REBAR WELDING TO THE LABORATORY.
- REINFORCING STEEL SHALL BE FABRICATED ACCORDING TO "MANUAL OF STANDARD PRACTICE FOR REINFORCED CONCRETE CONSTRUCTION".
- WIRE FABRIC SHALL CONFORM TO ASTM A-185.
- DIMENSIONS SHOWN FOR LOCATION OF REINFORCING ARE TO THE FACE OF BARS LISTED AND DENOTE CLEAR COVERAGE. NON-PRESTRESSED, CAST-IN-PLACE CONCRETE COVERAGE SHALL BE AS FOLLOWS, UNO:  
CONCRETE DEPOSITED DIRECTLY AGAINST GROUND (EXCEPT SLABS)--- 3"  
CONCRETE EXPOSED TO GROUND OR WEATHER BUT PLACED IN FORMS:  
#5 AND SMALLER----- 1-1/2"  
#6 AND LARGER----- 2"  
BEAMS & COLUMNS (TIES)----- 1-1/2"  
BEAMS & COLUMNS (MAIN REINFORCING)----- 2"  
CAST-IN-PLACE WALLS (EXTERIOR FACE & SOIL SIDE)----- SEE ABOVE  
CAST-IN-PLACE WALLS (INTERIOR FACE #11 & SMALLER)----- 3/4"  
SLABS (ON FORMS)----- 3/4"  
SLABS (ON GROUND)----- 2" CLEAR FROM TOP UNO
- SPICES IN CONTINUOUS REINFORCEMENT SHALL BE LAPPED UNO. SEE SCHEDULE THIS SHEET. SPICES IN ADJACENT BARS SHALL BE GREATER THAN 6" APART. SPICE CONTINUOUS BARS IN SOIL-BEARING GRADE BEAMS, STRUCTURAL SLABS ON GRADE AND MAT FOUNDATIONS AS FOLLOWS UNO: TOP BARS AT CENTERLINE OF SUPPORT; BOTTOM BARS AT MID-SPAN. SPICE CONTINUOUS BARS IN ELEVATED SLABS AND BEAMS, ETC., AS FOLLOWS UNO: TOP BARS AT MID-SPAN; BOTTOM BARS AT CENTERLINE OF SUPPORT. ALL BARS SIZE #14 AND LARGER SHALL BE CONTINUOUS FOR FULL LENGTH SHOWN OR SPICED WITH MECHANICAL COUPLERS AS NOTED IN DETAILS. SPICES IN WWF SHALL BE 1-1/2 MESHES WIDE.
- THE MINIMUM CLEAR SPACING BETWEEN PARALLEL BARS IN A LAYER SHALL NOT BE LESS THAN THE LARGER OF BAR DIAMETER, 1", OR 33% GREATER THAN THE MAXIMUM AGGREGATE SIZE (NOMINAL), WHICHEVER IS GREATEST. THIS REQUIREMENT ALSO APPLIES TO THE CLEAR SPACING BETWEEN DIFFERENT LAYERS OF PARALLEL BARS AND TO THE CLEAR DISTANCE BETWEEN A CONTACT LAP SPICE AND ADJACENT SPICES OR BARS.
- ALL HOOKS SHALL BE STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED. AT WALLS, PROVIDE HOOKS AT ENDS OF ALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS, UNO.
- CONSTRUCTION JOINTS SHALL BE MADE ROUGH AND ALL LAITANCE REMOVED FROM THE SURFACE. CONCRETE MAY BE ROUGHENED BY CHIPPING THE ENTIRE SURFACE, SAND BLASTING, OR RAKING THE SURFACE TO PROVIDE 1/4" DEEP DEFORMATIONS.
- REMOVE ALL DEBRIS FROM FORMS BEFORE CASTING ANY CONCRETE.
- REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE SECURELY POSITIONED BEFORE PLACING CONCRETE.
- ANCHOR BOLTS (A/B'S) CAST IN CONCRETE OR MASONRY FOR WALL, SILL AND LEDGER APPLICATIONS SHALL BE HEADED BOLTS WITH CUT THREADS CONFORMING TO ASTM A307, UNO. REFER TO "WOOD" NOTES FOR ADDITIONAL REQUIREMENTS FOR BOLTS IN CONTACT WITH PRESSURE TREATED OR FIRE RETARDANT MATERIAL. REFER TO 'STRUCTURAL STEEL' NOTE FOR REQUIREMENTS FOR ANCHOR RODS (A/R'S) CAST IN CONCRETE FOR COLUMN BASE PLATE AND STEEL EMBED APPLICATIONS.
- WALLS SHALL BE CAST IN HORIZONTAL LAYERS OF 2'-0" MAXIMUM DEPTH.
- CONCRETE IN WALLS, PIERS OR COLUMNS SHALL SET AT LEAST 2 HOURS BEFORE PLACING CONCRETE IN BEAMS, SPANDRELS, OR SLABS SUPPORTED THEREON.
- HORIZONTAL WALL BARS IN MULTI-CURTAIN CAST IN PLACE WALLS SHALL BE STAGGERED.
- DOWEL ALL VERTICAL REINFORCING IN WALLS AND COLUMNS FROM FOUNDATION WITH SAME SIZE BAR.
- CONSOLIDATE CONCRETE PLACED IN FORMS BY MECHANICAL VIBRATING EQUIPMENT SUPPLEMENTED BY HAND-SPADING, RODDING OR TAMPING. USE EQUIPMENT AND PROCEDURES FOR CONSOLIDATION OF CONCRETE IN ACCORDANCE WITH THE RECOMMENDED PRACTICES OF ACI 309 TO SUIT THE TYPE OF CONCRETE AND PROJECT CONDITIONS. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL (AS IN WALLS) SO AS TO CAUSE SEGREGATION OF AGGREGATES. IN SUCH CASES HOPPERS AND CHUTES OR TRUNKS OF VARIABLE LENGTHS SHALL BE USED SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 6 FEET.
- NO WOOD SPREADERS ALLOWED. NO WOOD STAKES ALLOWED IN AREAS TO BE CONCRETED.
- ADDITIONAL REINFORCING IN PRECAST OR TILT-UP PANELS REQUIRED FOR LIFTING STRESSES SHALL BE SUPPLIED BY CONTRACTOR.
- PROVIDE #5 X 4'-0" DIAGONAL REINFORCING AT TOP AND BOTTOM OF SLAB AT ALL RE-ENTRANT CORNERS TYPICAL. THIS APPLIES TO SLAB ON GRADE, CONCRETE OVER METAL DECK, AND ELEVATED STRUCTURAL SLAB CONDITIONS.
- ALL SAW CUTTING SHALL BE DONE AFTER INITIAL SET HAS OCCURRED TO AVOID TEARING OR DAMAGE BY THE SAW BLADE, BUT BEFORE INITIAL SHRINKAGE HAS OCCURRED.
- NOTIFY STRUCTURAL ENGINEER A MINIMUM OF 48 HOURS BEFORE PLACING ANY CONCRETE.
- CONCRETE STRENGTHS & MIX PROPERTIES:

ITEM	FC @ 28 DAYS	MAX AGGR. SIZE	WEIGHT	MAX WCM* RATIO
A. FOUNDATIONS & WALL	4000 PSI	1"	NW	0.45
B. SLAB ON GRADE	3500 PSI	1"	NW	0.45
SITE AND MISCELLANEOUS - SEE CIVIL OR ARCH'L DRAWINGS				
* WCM = WATER : CEMENTITIOUS MATERIAL RATIO				

## STRUCTURAL STEEL

- FABRICATION, ERECTION AND MATERIALS SHALL CONFORM WITH THE AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, THE AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, AND THE INTERNATIONAL BUILDING CODE, LATEST EDITIONS.
- STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM WITH ASTM A992. ALL OTHER STRUCTURAL STEEL ROLLED SHAPES (CHANNELS, ANGLES, ETC) AND PLATES SHALL CONFORM WITH ASTM A36, UNO.
- STEEL PIPE SHALL CONFORM TO ASTM A53, TYPES E OR S, GRADE B.
- ALL HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A600, GRADE B.
- ALL STRUCTURAL STEEL SHALL RECEIVE A MINIMUM OF ONE SHOP COAT OF RED PRIMER PAINT. DO NOT PAINT AREAS TO BE FIELD WELDED, FIREPROOFED, GALVANIZED, TO RECEIVE SLIP-CRITICAL HIGH STRENGTH BOLTS, OR TO BE EMBEDDED IN CONCRETE. PROVIDE ADDITIONAL PAINTING AS NOTED IN THE SPECIFICATIONS.
- ALL STRUCTURAL STEEL SHALL BE ERCTED PLUMB AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AND SHALL BE LEFT IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE THE STRUCTURE. CONTRACTOR RESPONSIBLE FOR REVIEWING ALL BASE PLATE AND SUPPORT CONDITIONS DURING ERECTION AND BRACING AS REQUIRED. SEE AISC AND OSHA REQUIREMENTS.
- PLACE NON-SHRINK GROUT UNDER ALL BASE PLATES BEFORE ADDING VERTICAL LOAD.
- STRUCTURAL STEEL BELOW GRADE SHALL HAVE 3 INCHES MINIMUM OF CONCRETE COVER.
- BOLTED CONNECTIONS SHALL CONSIST OF UNFINISHED BOLTS CONFORMING TO ASTM A307 UNLESS NOTED OTHERWISE. WHERE HIGH STRENGTH BOLTS ARE INDICATED, BOLTS CONFORMING TO ASTM A432 OR ASTM A490 AS NEEDED SHALL BE PROVIDED. ANCHOR RODS CAST IN CONCRETE OR MASONRY SHALL BE HEADED BOLTS WITH CUT THREAD, FULL DIAMETER BODY STYLE CONFORMING TO ASTM F1554 GR. 36, 55 (WELDABLE PER S1 SUPPLEMENTARY REQUIREMENTS) OR 105 AS INDICATED ON DRAWINGS. ALL BOLTED CONNECTIONS AND BASE PLATES SHALL HAVE STANDARD CUT WASHERS UNLESS NOTED OTHERWISE. WASHERS FOR BASE PLATES SHALL CONFORM TO ASTM F844 UNLESS NOTED OTHERWISE, AND SHALL BE PLACED AT TOP AND BOTTOM OF PLATE.
- "SLIP-CRITICAL" BOLTED CONNECTIONS:  
A) "SLIP-CRITICAL" CONNECTIONS (A325SC DESIGN VALUES WITH SPECIAL INSPECTION) ARE REQUIRED AT ALL BRACED FRAME CONNECTIONS, AT ALL CONNECTIONS ALONG CHORD LINES AND DRAG LINES (AS NOTED ON PLANS), AND UNO, AT ALL BOLTS IN OVERSIZED OR SLOTTED HOLES.  
B) THE SPECIAL INSPECTOR MUST BE PRESENT DURING INSTALLATION AND TIGHTENING OPERATION OF "SLIP-CRITICAL" CONNECTIONS.
- PROVIDE 1/2" DIAMETER STITCH BOLTS AND RING FILLS, SPACED AT NOT MORE THAN 2'-0" ON CENTER FOR ALL DOUBLE ANGLE MEMBERS.
- AT WOOD TO STEEL PARALLEL CONTACT, BOLT WITH 1/2" DIAMETER BOLTS AT MAXIMUM 24"C/C.
- HOLES FOR UNFINISHED BOLTS SHALL BE OF THE SAME NOMINAL DIAMETER OF THE BOLT PLUS 1/16". USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE.
- WELDING SHALL BE DONE BY THE ELECTRIC ARC PROCESS IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STANDARDS, USING ONLY CERTIFIED WELDERS. ALL GROOVE WELDS SHALL HAVE COMPLETE PENETRATION UNLESS NOTED OTHERWISE. ALL EXPOSED WELDS SHALL BE GROUND SMOOTH. ALL ELECTRODES FOR WELDING SHALL COMPLY WITH AWS CODE, E70 SERIES MINIMUM.
- WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
- MINIMUM FILLET WELDS: 3/16" @ T < 1/4"  
1/4" @ T < 3/4"  
5/16" @ T > 3/4"
- WELDING PROCEDURE SPECIFICATIONS (WPS) FOR SHOP AND FIELD PREQUALIFIED WELD JOINTS AND WELD JOINTS QUALIFIED BY TEST SHALL BE PREPARED FOR REVIEW PRIOR TO FABRICATION. ALL WELDING PROCEDURE ITEMS SUCH AS BASE METALS, WELDING PROCESSES, FILLER METALS AND JOINT DETAILS THAT MEET THE REQUIREMENTS OF AWS D1.1 SECTION 5.1 SHALL BE CONSIDERED AS PREQUALIFIED. ANY CHANGE OR SUBSTITUTION THAT IS BEYOND THE RANGE OR TOLERANCE OR REQUIREMENTS FOR PREQUALIFICATION SHALL BE QUALIFIED BY TEST PER AWS D1.1 SECTION 5 PART B. QUALIFICATION TESTING IS REQUIRED WHEN THE DEPTH OF A PARTIAL PENETRATION OR COMPLETE PENETRATION WELD IS 2" OR GREATER.
- FOR NONDESTRUCTIVE TESTING OF WELDED CONNECTIONS EXCLUDING PRIMARY MEMBERS OF MOMENT RESISTING FRAMES:  
A) WELDED CONNECTIONS SHALL BE TESTED BY NONDESTRUCTIVE METHODS FOR COMPLIANCE WITH AISC J2, AND JOB SPECIFICATIONS. ULTRASONIC TESTING SHALL BE IN ACCORDANCE WITH AWS D1.1, ASTM E164 AND ASME SECTION V. RADIOGRAPHY SHALL BE IN ACCORDANCE WITH AWS D1.1, ASTM E84 AND E99, AND ASME SECTION V. THIS TESTING SHALL BE PART OF THE SPECIAL INSPECTION REQUIREMENTS OF IBC SECTION 1704.3 PERFORMED BY AN APPROVED INDEPENDENT TESTING LABORATORY AS FOLLOWS:  
1. BASE METAL THICKER THAN 1 INCH WHEN SUBJECT TO THROUGH THICKNESS WELD SHRINKAGE STRAINS.  
2. ALL COMPLETE JOINT PENETRATION GROOVE OR BUTT WELDS.  
3. ALL PARTIAL JOINT PENETRATION GROOVE WELDS WHEN USED IN COLUMN SPICES.  
B) ANY MATERIAL DISCONTINUITIES SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF DEFECT RATING IN ACCORDANCE WITH THE (LARGER REFLECTOR) CRITERIA OF AISC J2.
- TENSION ROD REPLACEMENTS SHALL BE CAST DUCTILE IRON RODS GRADE 80-55-06 AND CONFORM TO ASTM A-536.

REINFORCEMENT LAP SPICE SCHEDULE  
(ALL LENGTHS SHOWN ARE IN INCHES.)

FC' = 4000 PSI CONC (EPOXY COATED)										
SPICE CLASS	REINF LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
B	TOP	24	48	60	72	105	120	135	160	185
	OTHER	19	37	46	56	81	93	104	116	127
FC' = 3500 PSI CONC (EPOXY COATED)										
SPICE CLASS	REINF LOCATION	#3	#4	#5	#6	#7	#8	#9	#10	#11
B	TOP	20	52	64	77	113	129	145	161	177
	OTHER	14	40	50	60	87	99	112	124	136

- NOTES:
- SCHEDULE APPLIES TO NORMAL WEIGHT CONCRETE WITH EPOXY COATED, GRADE 60 REINFORCING STEEL FOR #4 BARS AND LARGER (VALUES FOR #3 BARS BASED ON GRADE 40).
  - TOP REINFORCEMENT IS HORIZONTAL REINFORCEMENT LOCATED SUCH THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE SPICE.
  - WHEN LIGHTWEIGHT CONCRETE IS USED, MULTIPLY LAP LENGTHS BY 1.30.
  - WHERE CLEAR SPACING OF BARS BEING SPICED IS LESS THAN 2 BAR DIA. OR WHERE CLEAR COVER OF BARS BEING SPICED IS LESS THAN 1 BAR DIA., MULTIPLY LAP LENGTHS BY 1.50, UNO.
  - WHERE NOTES #3 AND #4 OCCUR, MULTIPLY LAP LENGTHS BY 2.00, UNO.
  - WHERE CLASS A LAP SPICE IS NOTED IN DETAIL, DIVIDE LENGTHS ABOVE BY 1.30.
  - WHERE CONCRETE COVER IS GREATER THAN 3 BAR DIA. AND CLEAR SPACING IS GREATER THAN 6 BAR DIA., LAP SPICE LENGTHS CAN BE MULTIPLIED BY 0.8.

## DEMOLITION NOTES

- THESE NOTES ALSO APPLY TO CONDITIONS WHERE PARTIAL OR SELECTIVE DEMOLITION IS REQUIRED AS PART OF THE WORK.
- SAFETY NOTES:  
A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH THE PERTINENT SECTIONS, AS THEY APPLY TO THIS PROJECT, OF THE "CONSTRUCTION SAFETY ORDERS" ISSUED BY THE STATE OF CALIFORNIA LATEST EDITION AND ALL OSHA REQUIREMENTS.  
B. THE ARCHITECT, STRUCTURAL ENGINEER AND OWNER DO NOT ACCEPT ANY RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY WITH THESE REQUIREMENTS.  
C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE DESIGN AND CONSTRUCTION OF ALL FORMWORK, BRACING, AND SHORING REQUIRED. SHORING INDICATIONS (LOCATION, DIRECTION, DURATION, ETC.) ARE ONLY SHOWN ON THE STRUCTURAL DRWGS WHEN REQUIRED TO IMPLEMENT THE DESIGN INTENT OF THE FINAL WORK PRODUCT. DETERMINATION WHETHER SHORING IS REQUIRED FOR TEMPORARY OR INTERMEDIATE CONDITIONS DURING CONSTRUCTION IS WHOLLY THE RESPONSIBILITY OF THE CONTRACTOR.
- SHORE OR BRACE BEAMS, COLUMNS AND WALLS AS REQUIRED TO MAINTAIN THE STABLE INTEGRITY OF THE EXISTING STRUCTURE PRIOR TO DEMOLITION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DESIGN AND PROVIDE COMPETENT SHORING AND BRACING FOR ALL LOADS IMPOSED DURING AND AFTER DEMOLITION THROUGH COMPLETION OF NEW CONSTRUCTION.
- CONTRACTOR IS TO PREPARE A DEMOLITION AND SHORING PLAN DEPICTING LOCATIONS AND METHOD OF SHORING AND DEMOLITION SEQUENCING. ALL DIMENSIONS GIVEN TO EXISTING STRUCTURE ARE APPROXIMATE. VERIFY BY FIELD MEASUREMENTS THE DIMENSIONS OF THE EXISTING STRUCTURE. WHERE ACTUAL CONDITIONS DEVIATE FROM DETAILS SHOWN ON THE DRAWINGS, NOTIFY THE STRUCTURAL ENGINEER FOR INSTRUCTIONS BEFORE PROCEEDING WITH WORK.
- ANY CONFLICTING ITEMS NOT SPECIFICALLY SHOWN (SUCH AS UNDERGROUND PIPES, CONDUITS, ETC.) SHALL BE BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER PRIOR TO FURTHER DEMOLITION.
- DEMOLITION AND REMOVAL OF EXISTING CONSTRUCTION SHALL BE MADE IN SUCH A MANNER AS TO MINIMIZE OR AVOID DAMAGE TO ADJACENT CONSTRUCTION.
- A COMPLETE SET OF ORIGINAL DRAWINGS OF THE EXISTING STRUCTURE IS TO BE KEPT ON THE JOBSITE. CONTRACTOR SHALL OBTAIN THESE DRAWINGS FROM THE OWNER WHERE AVAILABLE.
- EXTENT OF DEMOLITION IS TO BE AS INDICATED ON PLANS, SECTIONS AND DETAILS. VERIFY STORAGE AND REUSE OF EXISTING MATERIALS WITH ARCHITECTURAL DRAWINGS. DEMOLITION IS TO INCLUDE REMOVAL AND DISPOSAL OF DEMOLISHED CONSTRUCTION. SEE SPECIFICATIONS FOR ADDITIONAL DEMOLITION INSTRUCTIONS.
- CONTRACTOR SHALL RETAIN THE SERVICES OF A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA TO PROVIDE SELECTIVE DEMOLITION AND REPLACEMENT OF EXISTING CONSTRUCTION IN AREAS NECESSARY FOR CLEARANCE OF PILE DRIVING EQUIPMENT. PLAN SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.
- ALL MATERIALS REQUIRING STORAGE SHALL BE PROTECTED TO PREVENT DEGRADATION.

## HISTORIC REHABILITATION NOTES:

- THE BRIDGE SHALL BE REHABILITATED PER "STANDARDS FOR REHABILITATION AND GUIDELINES FOR REHABILITATING HISTORIC BUILDINGS" AS PUBLISHED BY THE SECRETARY OF THE INTERIOR.
- CARE SHALL BE PROVIDED TO PROTECT HISTORIC FEATURES PRIOR TO AND DURING CONSTRUCTION.
- MATERIAL DEGRADATION OR DETERIORATION THAT IS NOT NOTED IN THE DRAWINGS AND IS ENCOUNTERED IN CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. DETERIORATED MATERIALS SHALL BE REPAIRED AND/OR REPLACED, WHERE POSSIBLE, REPLACED AND/OR REPAIRED PORTIONS SHALL BE INSTALLED TO MATCH THE EXISTING CHARACTERISTICS OF THE STRUCTURE.



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REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
GENERAL NOTES

DRAWING NO.  
30360.012

SHEET NO.  
S0.02

004 OF 029

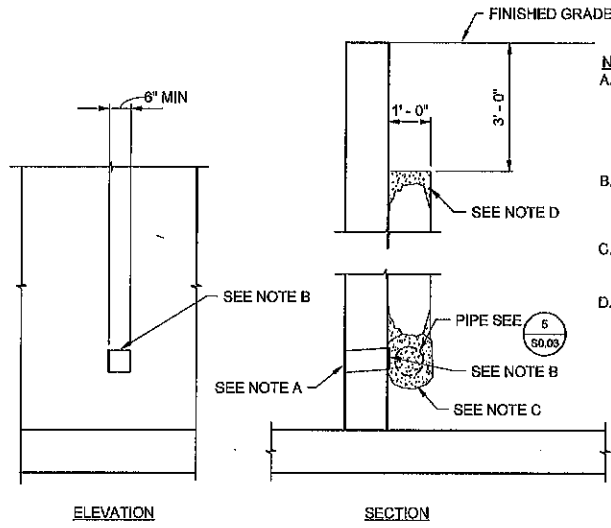


Buehler & Doehler  
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tel: 916.441.2700 fax: 916.441.0111  
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# TYPICAL DETAILS

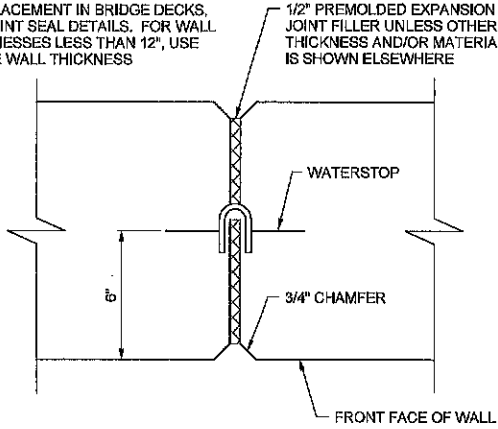
APPLICABLE TO ALL DRAWINGS UNLESS NOTED OR SHOWN OTHERWISE



**1** WEEP HOLE AND PERVIOUS BACKFILL  
S0.03

NOTE:

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

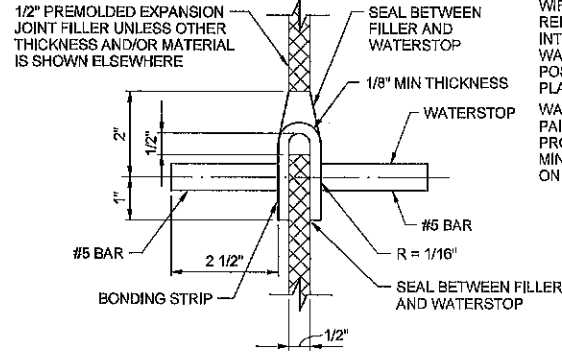


**2** WEAKENED PLANES  
S0.03

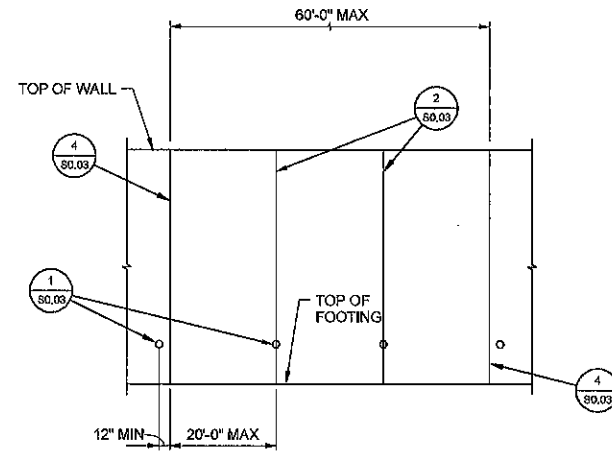
NOTE:

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.



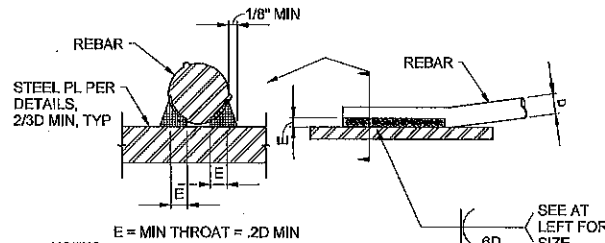
**3** WALL EXPANSION JOINTS AND WEAKENED PLANES  
S0.03



**4** WALL EXPANSION JOINTS AND WEAKENED PLANES  
S0.03

**4** WALL EXPANSION JOINT  
S0.03

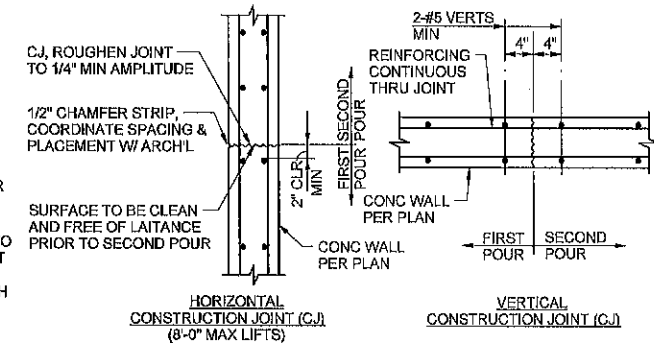
**5** DRAIN PIPE AND PERMEABLE MATERIAL  
S0.03



NOTES:

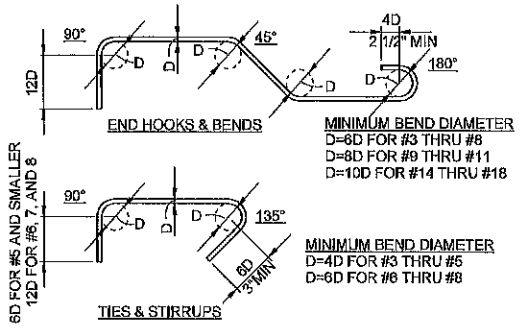
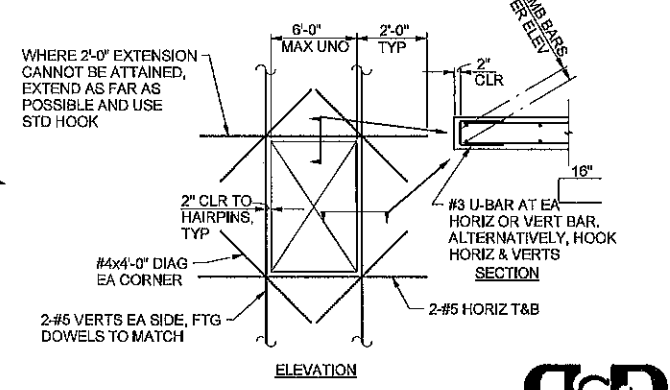
1. REINFORCING TO BE WELDED, EXCEPT ASTM A706, SHALL CONFORM TO THE MATERIAL PROPERTY REQUIREMENTS OF ANSIAWS D1.4, NEWEST EDITION.
2. ALL PREHEATING AND WELDING SHALL BE DONE IN ACCORDANCE WITH ANSIAWS D1.4, NEWEST EDITION.
3. ALL WELDING SHALL BE CONTINUOUSLY INSPECTED BY A QUALIFIED LABORATORY.

**6** WATERSTOP  
S0.03



HORIZONTAL CONSTRUCTION JOINT (C.J.) (8'-0" MAX LIFTS)  
VERTICAL CONSTRUCTION JOINT (C.J.)

**7** CORNER REINFORCING AT CONCRETE FOOTINGS  
S0.03



NOTE: ALL HOOKS SHALL BE 90° OR 180° STANDARD HOOKS UNLESS OTHERWISE SHOWN OR NOTED.

**8** STANDARD REBAR HOOKS AND BENDS  
S0.03

**9** REBAR WELDING  
S0.03

**10** CONCRETE WALL JOINTS  
S0.03

**11** OPENING REINFORCING IN CONCRETE WALLS  
S0.03



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REVISIONS	DATE

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

DRAWING NO.  
30350.013

SHEET NO.  
S0.03

005 OF 029



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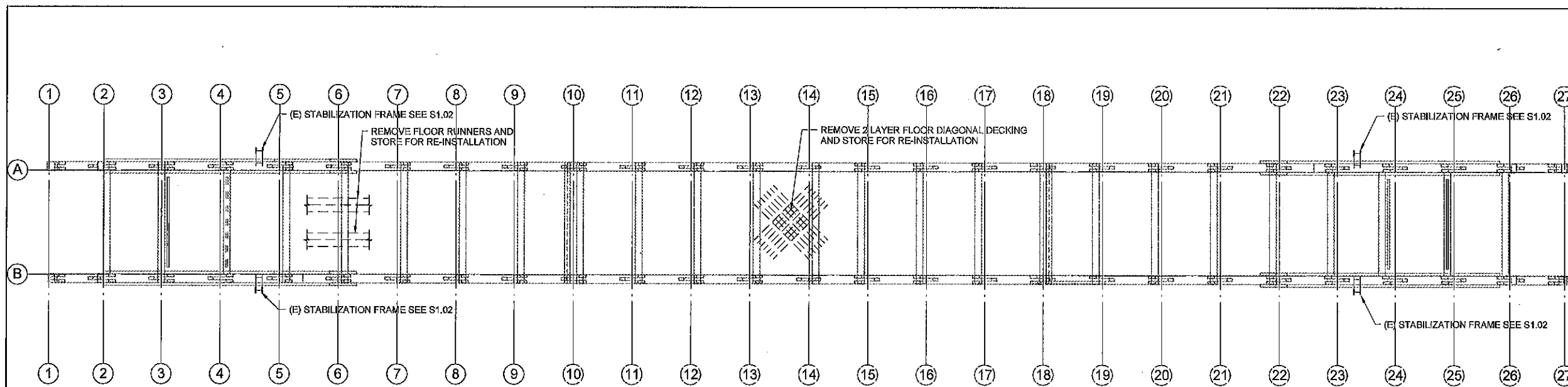
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ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_

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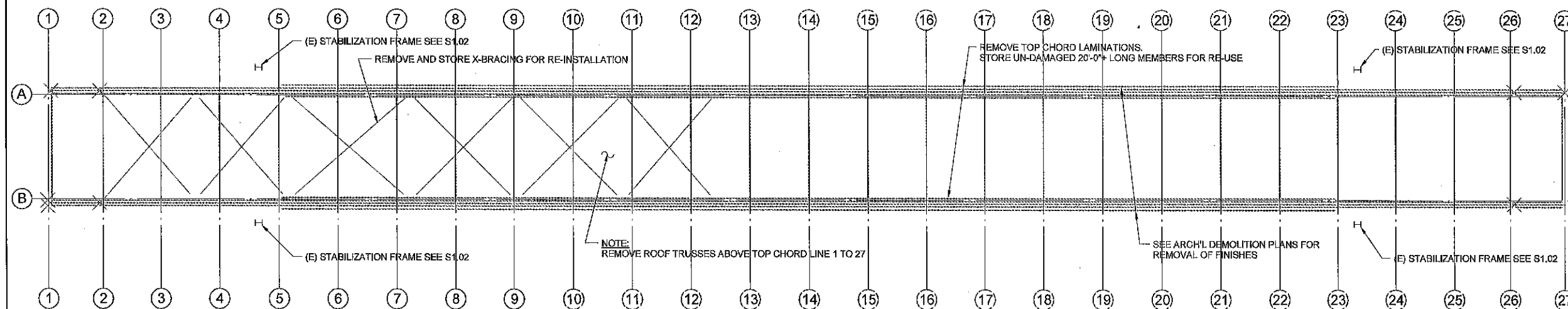
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NO.	DATE



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

- NOTE:**
- SEE SHEET S1.02 FOR SHORING NOTES PRIOR TO DEMOLITION.
  - SALVAGE EXISTING MATERIALS AND STORE.
  - CONTRACTOR MAY UTILIZE (E) STABILIZATION FRAME IN SHORING PRIOR TO REMOVAL.



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

- NOTE:**
- SEE SHEET S1.02 FOR SHORING NOTES PRIOR TO DEMOLITION.
  - SALVAGE EXISTING MATERIALS AND STORE.
  - CONTRACTOR MAY UTILIZE (E) STABILIZATION FRAME IN SHORING PRIOR TO REMOVAL.



**SALVAGE REUSE NOTES:**

- CONTRACTOR SHALL HOLD 20% CONTINGENCY FOR BROKEN OR DAMAGED MEMBERS.
- REUSED MATERIALS SHALL BE SUBJECT TO TIMBER INSPECTOR OVERSIGHT.
- NET SIZES OF REPLACED MEMBERS SHALL MATCH EXISTING MEMBERS.
- SEE GENERAL NOTES FOR LUMBER GRADE & MOISTURE CONTENT REQUIREMENTS.

**DEMOLITION NARRATIVE OF INTENT:**

DEMOLITION OF THE STRUCTURE SHALL BE HANDLED WITH CARE TO PRESERVE THE HISTORIC STRUCTURE. ALL REMOVED MEMBERS SHALL BE SALVAGED AND STORED FOR REUSE. SEE HISTORIC REHABILITATION NOTES. SHORING SHALL PRECEDE DEMOLITION.



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Sacramento, Hawaii, San Francisco

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HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
DEMOLITION PLAN

DRAWING NO.

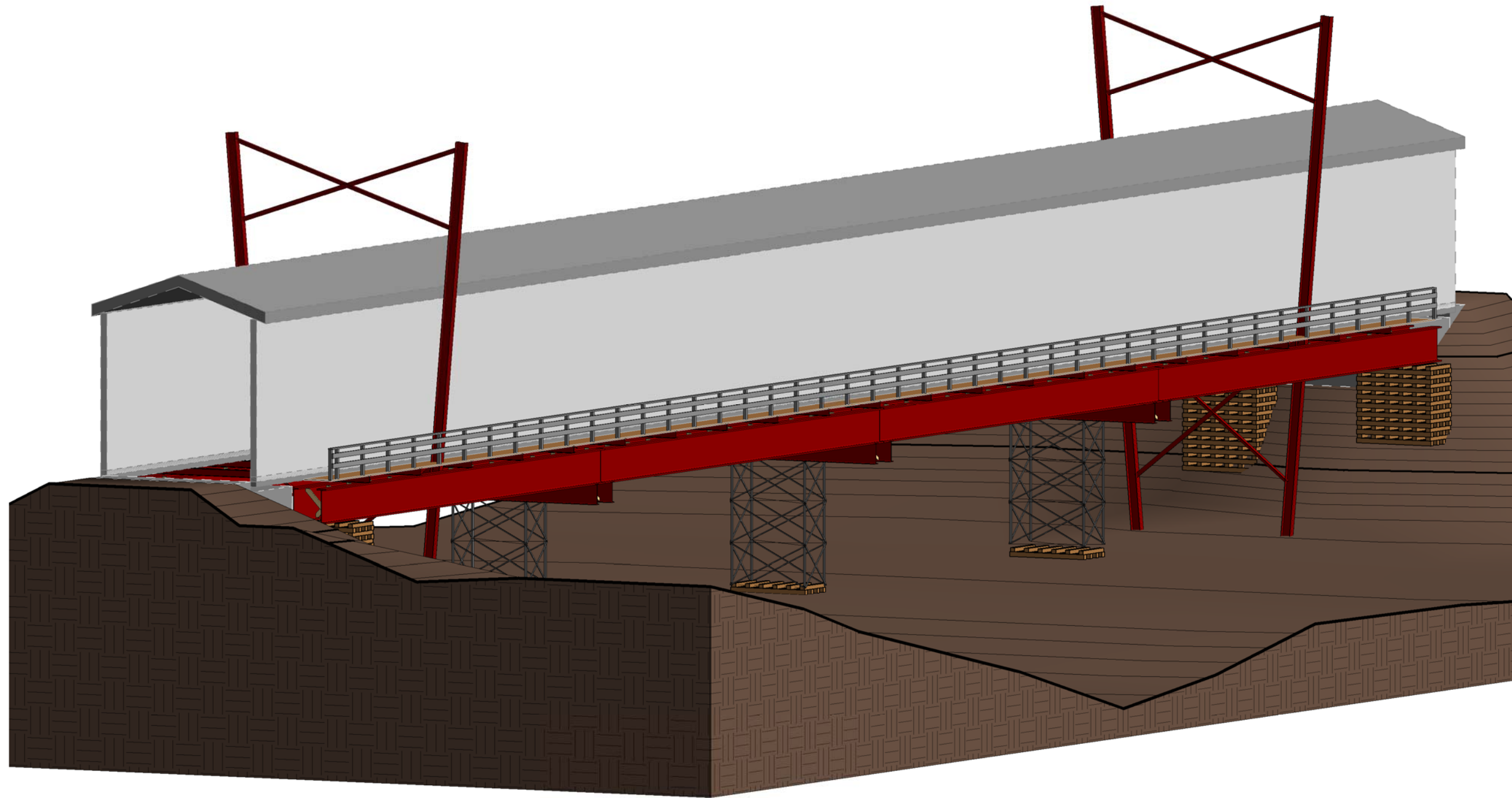
SHEET NO.

S1.01

006 OF 029

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CONCEPTUAL ISOMETRIC



SOUTH YUBA RIVER  
CROSSING  
CONCEPTUAL SHORING

SOUTH YUBA RIVER STATE  
PARK

CLIENT INFORMATION  
CA STATE PARKS  
SOUTH YUBA RIVER STATE PARK

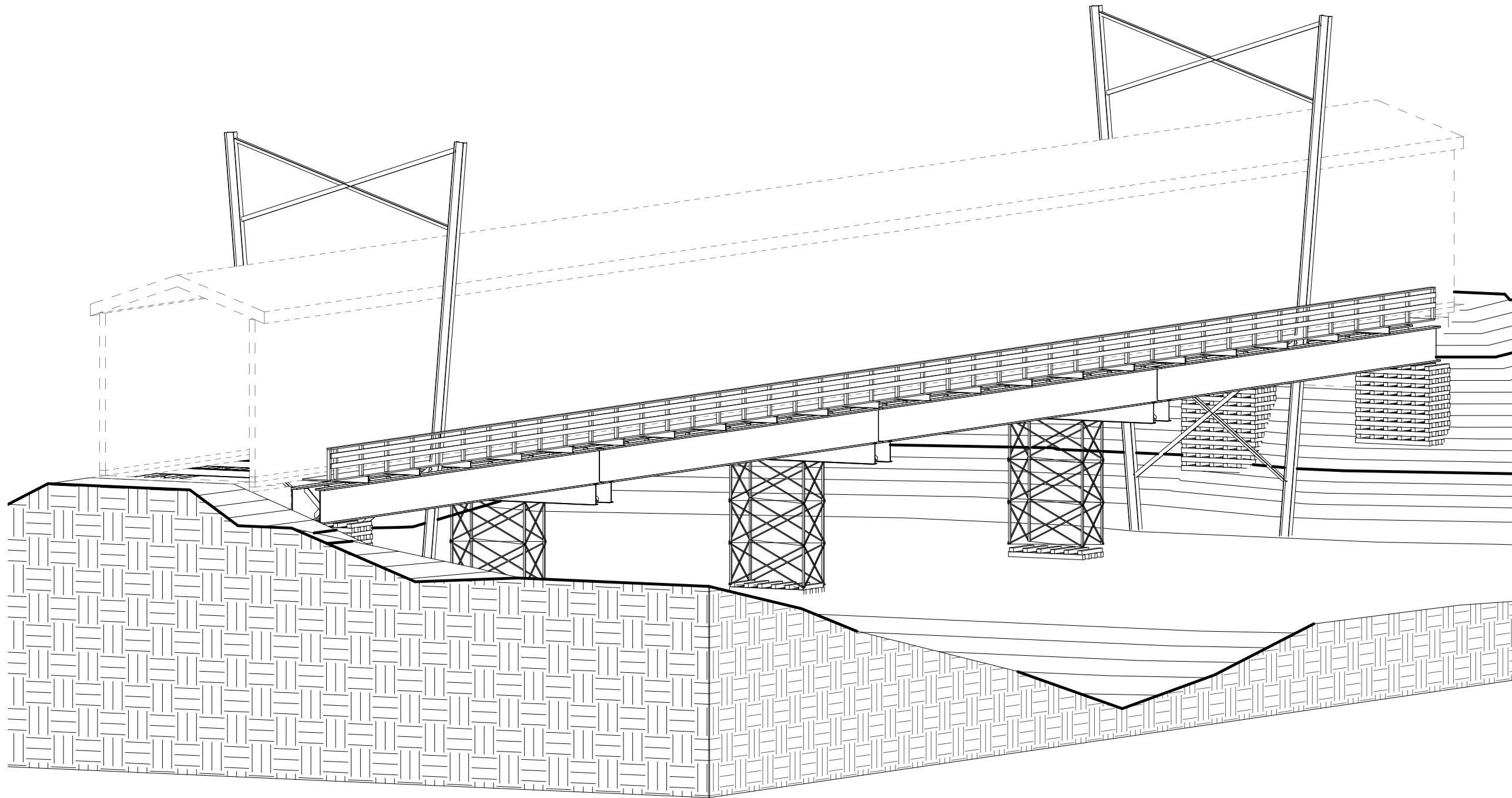
PROJECT# 1681

DATE 5/27/2016

SCALE AS NOTED

ISOMETRIC 1

P-001



CONCEPTUAL ISOMETRIC - B&W



10031 West River Street, Truckee, CA 96161  
 PO Box 2651, Truckee, CA 96160  
 info@linchpinse.com  
 530.563.6341  
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SOUTH YUBA RIVER  
 CROSSING  
 CONCEPTUAL SHORING

SOUTH YUBA RIVER STATE  
 PARK

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 CA STATE PARKS  
 SOUTH YUBA RIVER STATE PARK

PROJECT# 1681

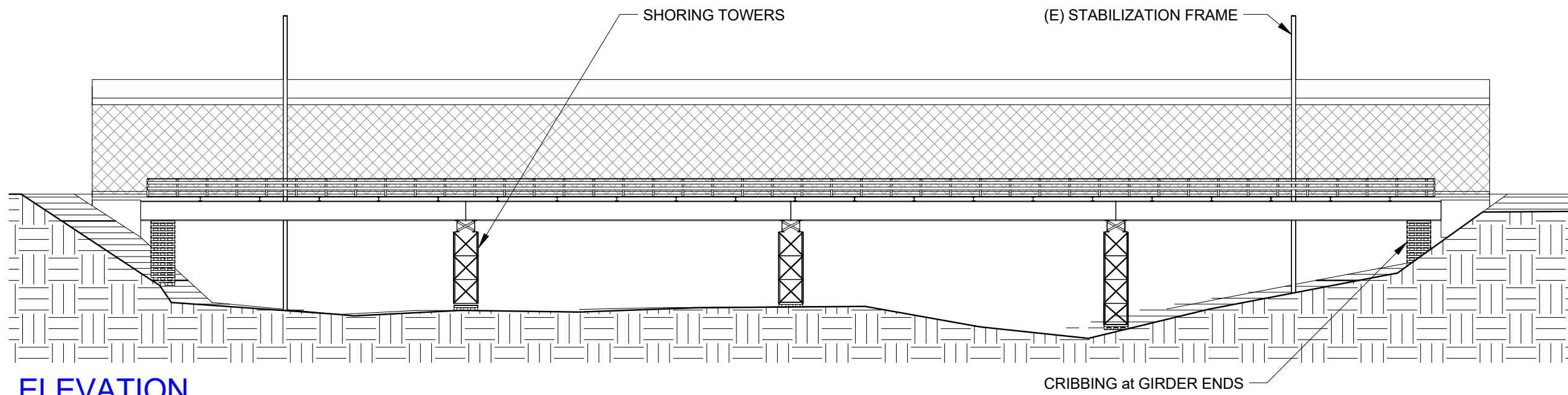
DATE 5/27/2016

SCALE AS NOTED

ISOMETRIC 2

P-002





**ELEVATION**

1" = 20'-0"



**SOUTH YUBA RIVER  
CROSSING  
CONCEPTUAL SHORING**

SOUTH YUBA RIVER STATE  
PARK

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CA STATE PARKS  
SOUTH YUBA RIVER STATE PARK

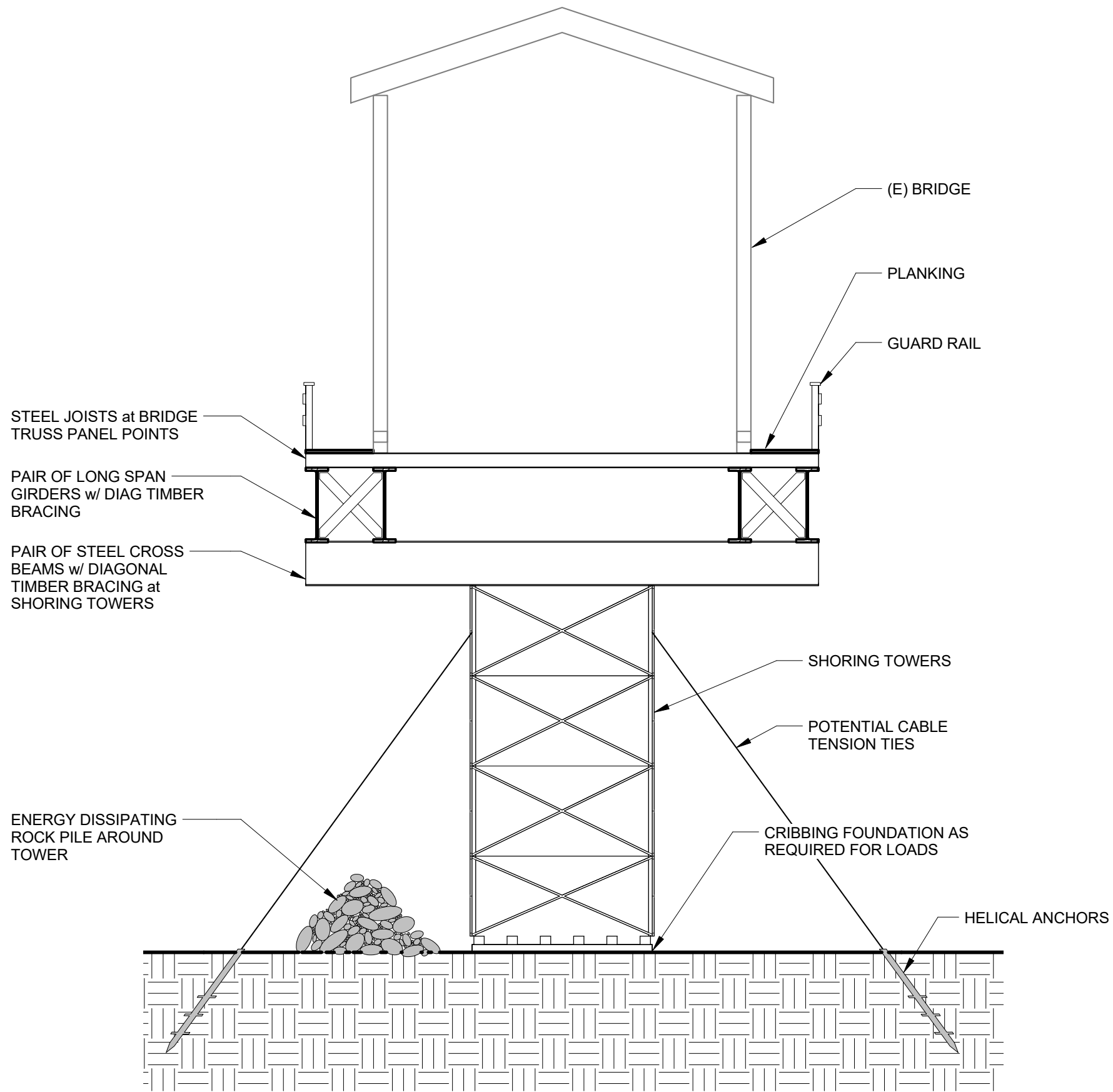
PROJECT# 1681

DATE 5/27/2016

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**ELEVATION**

**P-003**

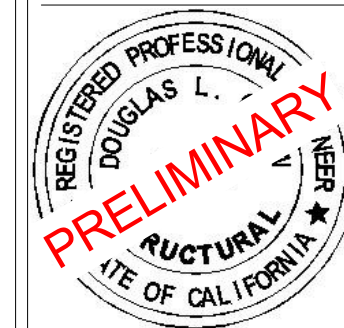


**SECTION**

3/16" = 1'-0"



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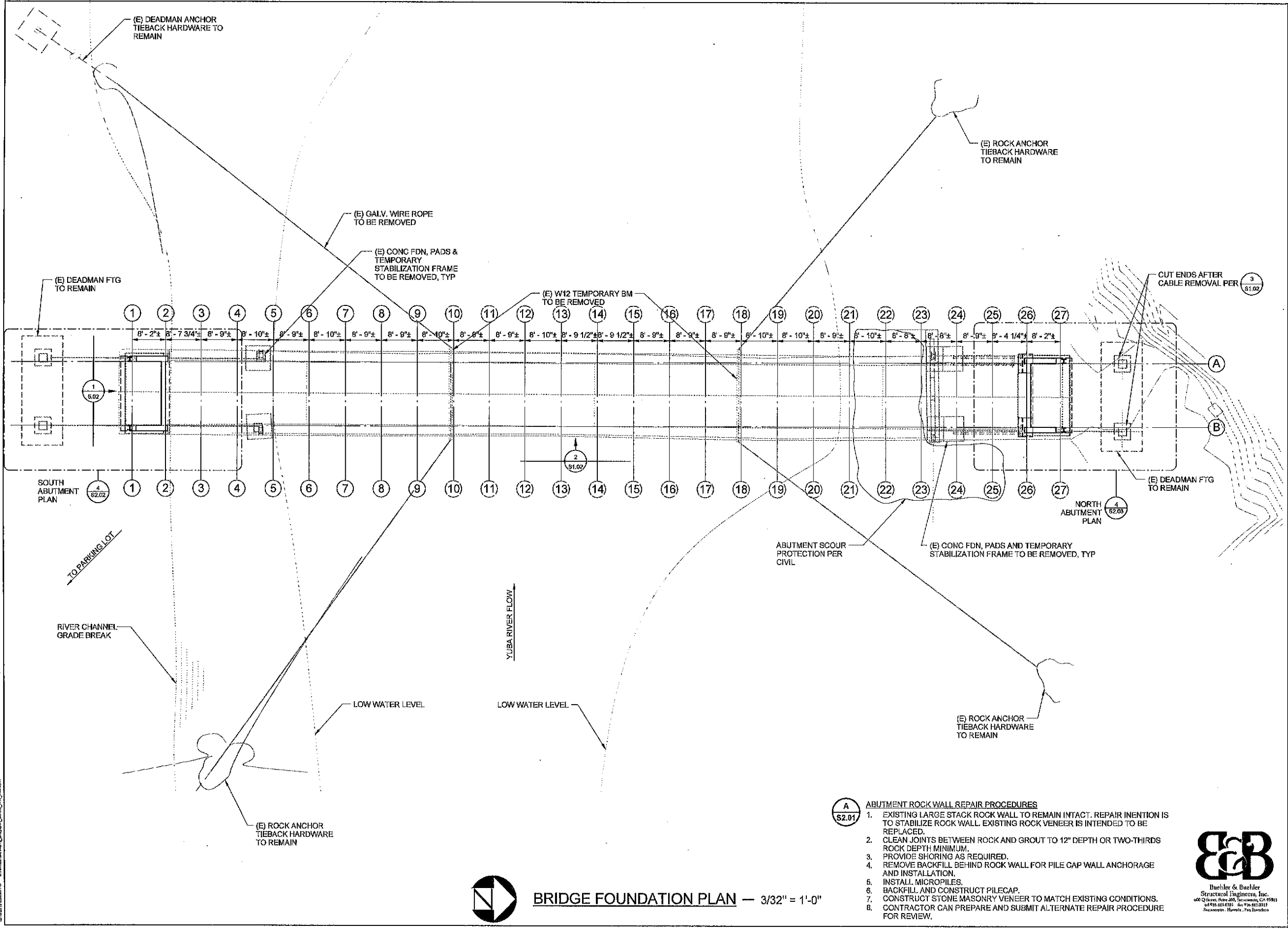
SOUTH YUBA RIVER STATE  
 PARK

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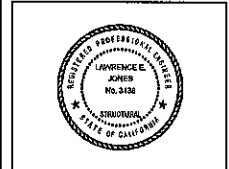
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SECTION

**P-004**



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

DRAWING NO.
SHEET NO.
<b>S2.01</b>
008 OF 029

- A** S2.01
- ABUTMENT ROCK WALL REPAIR PROCEDURES**
- EXISTING LARGE STACK ROCK WALL TO REMAIN INTACT. REPAIR INTENTION IS TO STABILIZE ROCK WALL. EXISTING ROCK 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.







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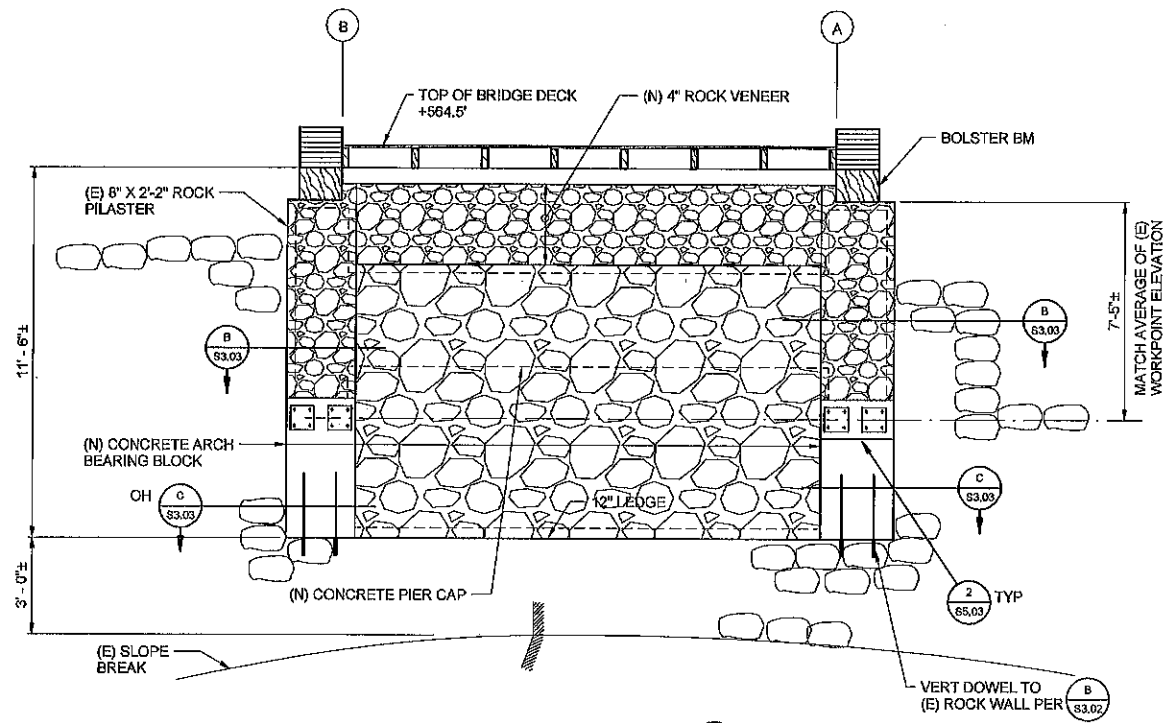
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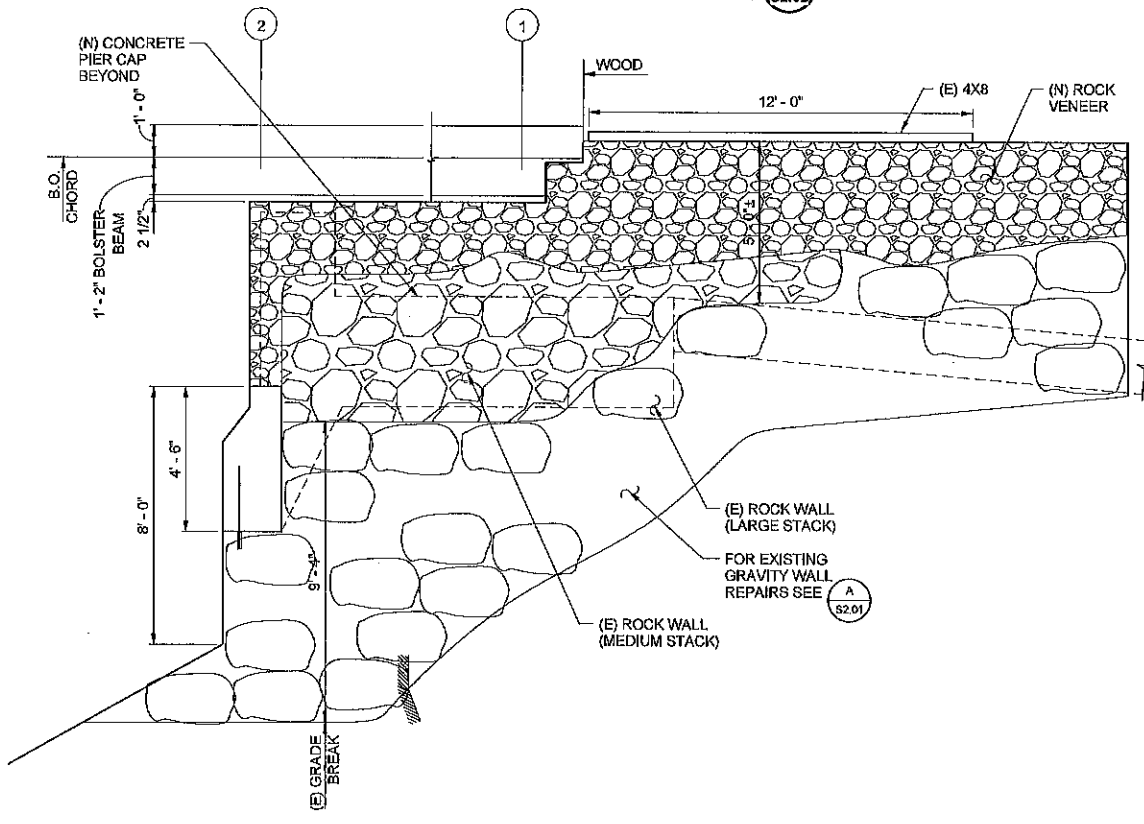
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SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
SOUTH BRIDGE ABUTMENT PLAN

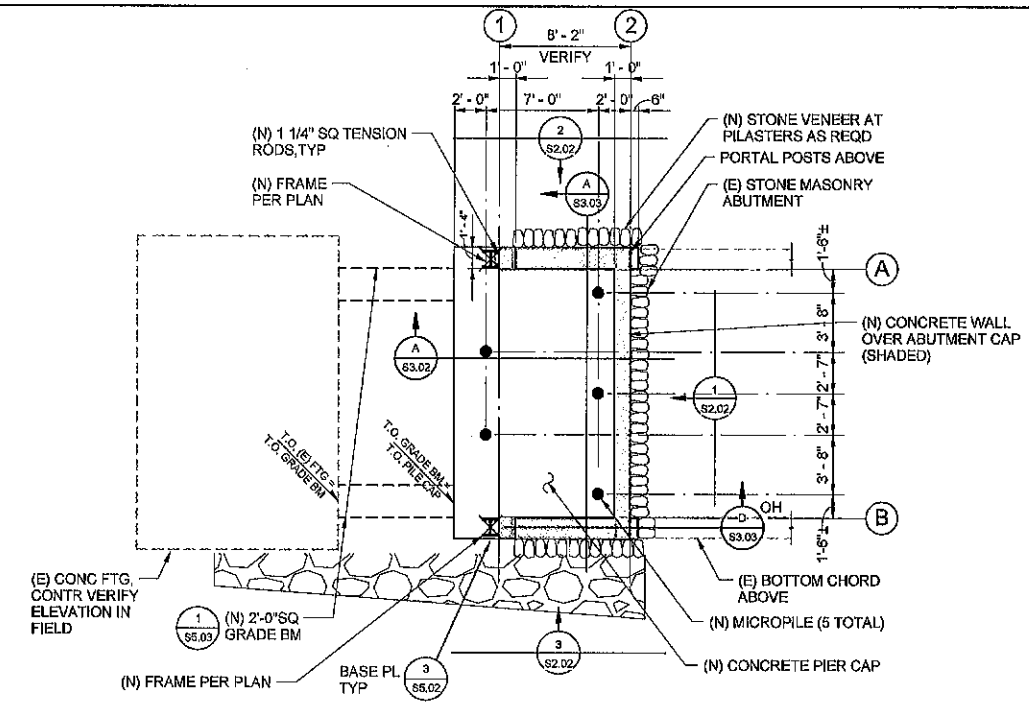
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SHEET NO. S2.02  
009 OF 029



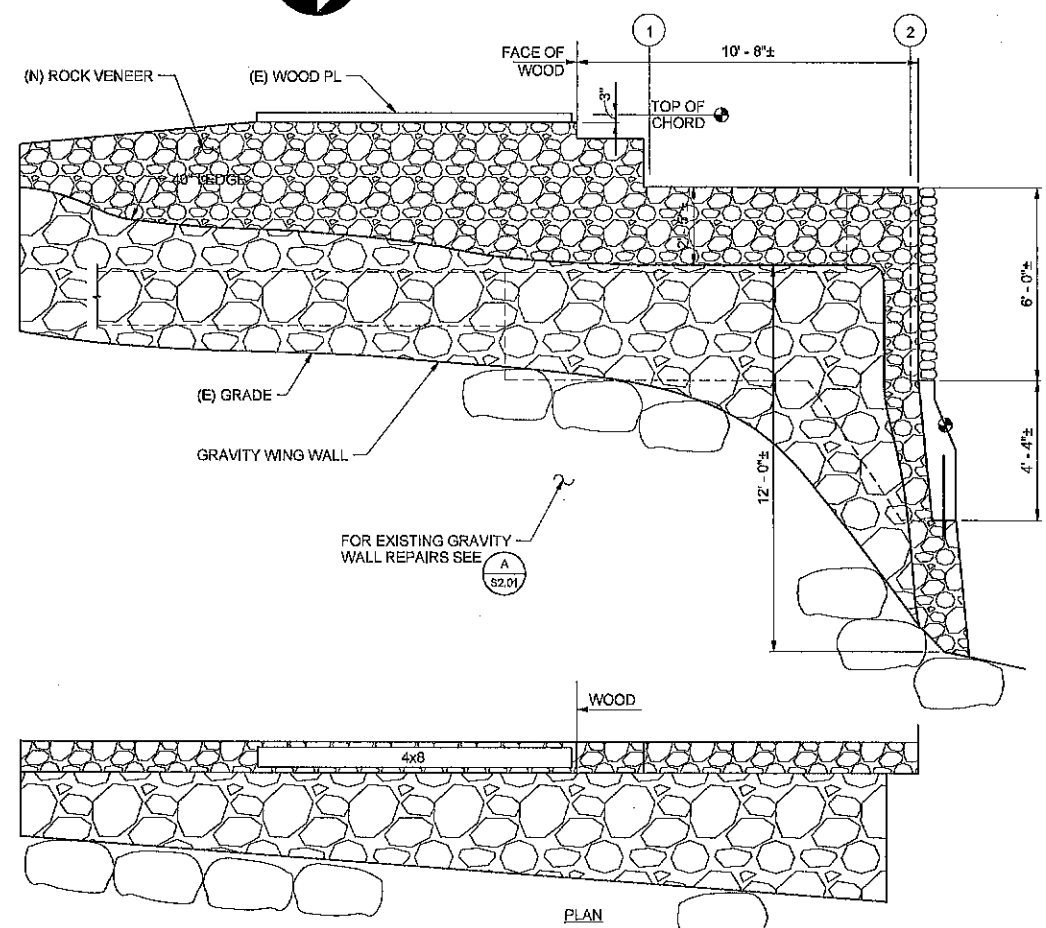
**SOUTH ABUTMENT ELEVATION**  $\frac{1}{S2.02}$  -  $3/8" = 1'-0"$



**SOUTH ABUTMENT - WEST ELEVATION**  $\frac{2}{S2.02}$  -  $3/8" = 1'-0"$



**SOUTH ABUTMENT PLAN**  $\frac{4}{S2.02}$  -  $3/16" = 1'-0"$



**SOUTH ABUTMENT - EAST ELEVATION**  $\frac{3}{S2.02}$  -  $3/8" = 1'-0"$



Buckler & Buckler  
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Sacramento, Florida - San Francisco

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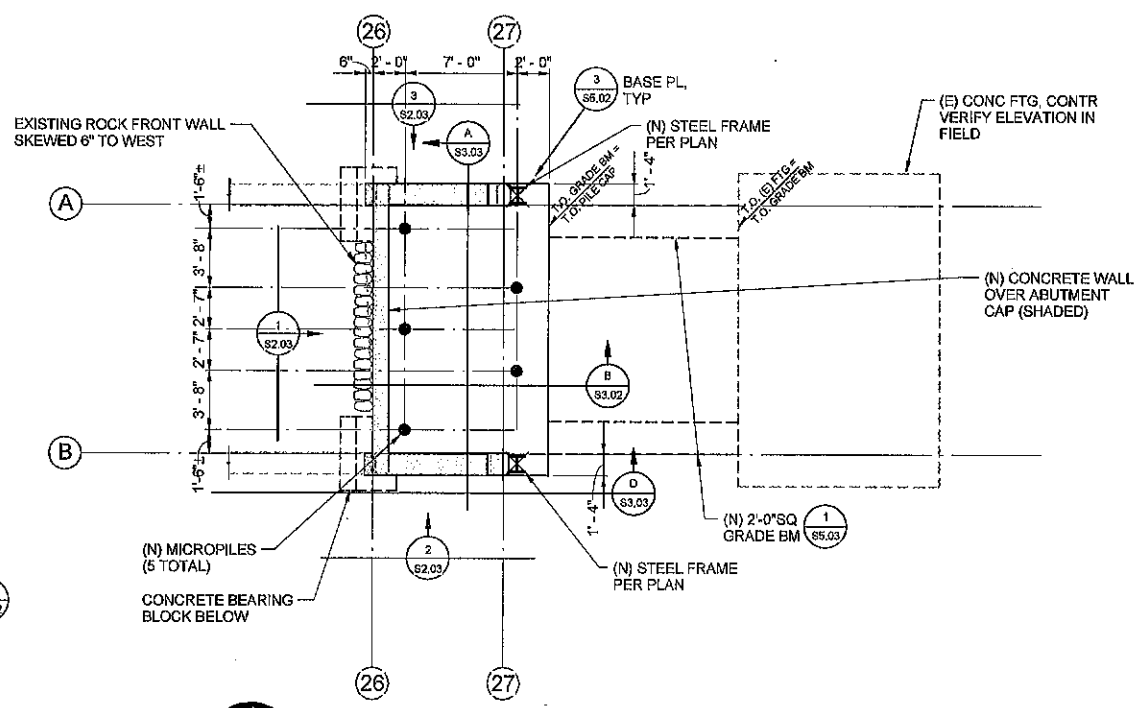
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HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
NORTH BRIDGE ABUTMENT PLAN

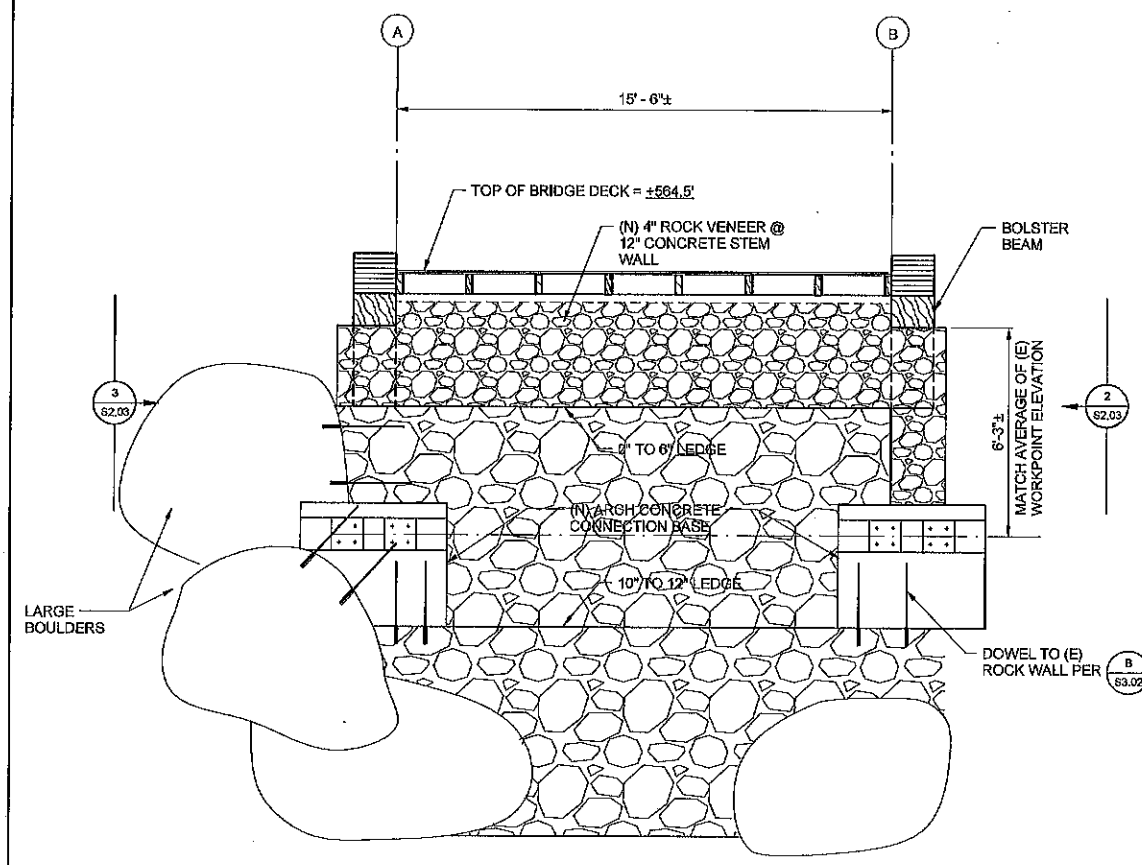
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SHEET NO. S2.03  
010 OF 029



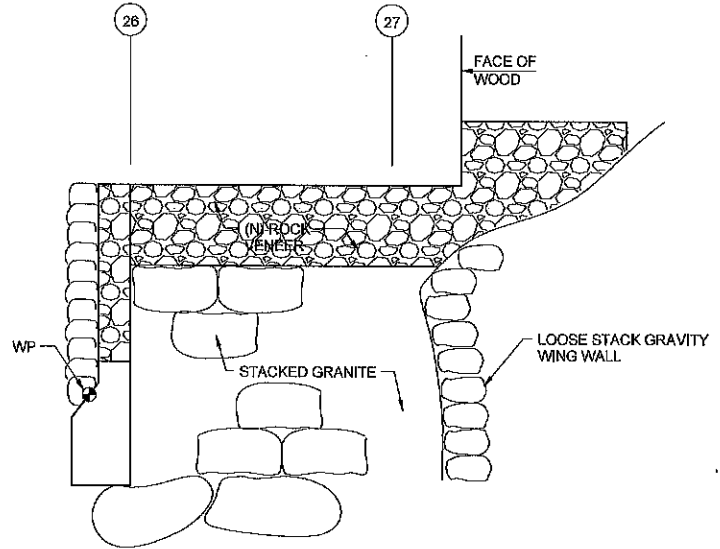
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916-441-1120 fax 916-441-1113  
Sacramento, Ilwaco, San Francisco



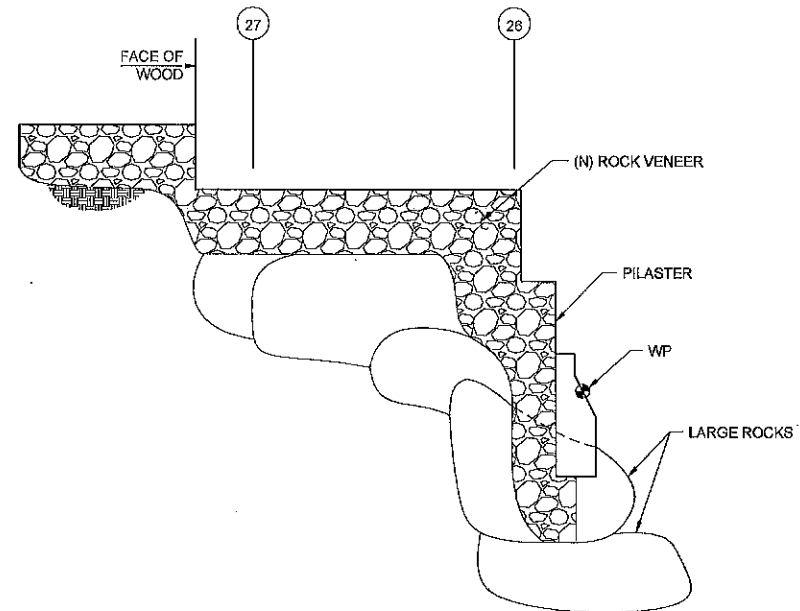
NORTH ABUTMENT PLAN  $\frac{4}{S2.03}$  -  $\frac{3}{16}'' = 1'-0''$



NORTH ABUTMENT ELEVATION  $\frac{1}{S2.03}$  -  $\frac{3}{8}'' = 1'-0''$

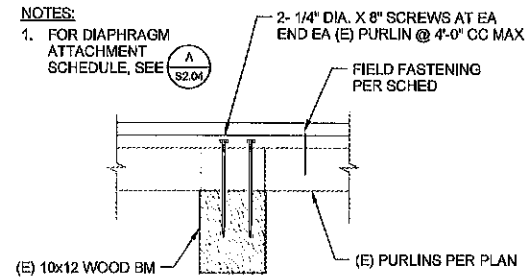


NORTH ABUTMENT - EAST ELEVATION  $\frac{2}{S2.03}$  -  $\frac{3}{8}'' = 1'-0''$

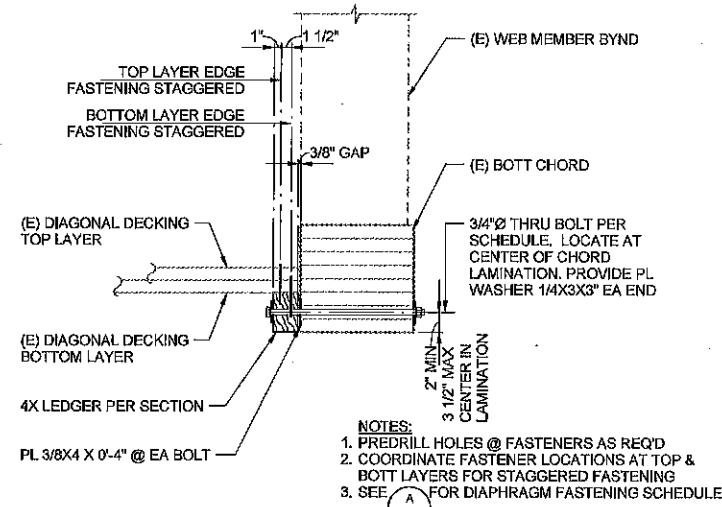


NORTH ABUTMENT - WEST ELEVATION  $\frac{3}{S2.03}$  -  $\frac{3}{8}'' = 1'-0''$

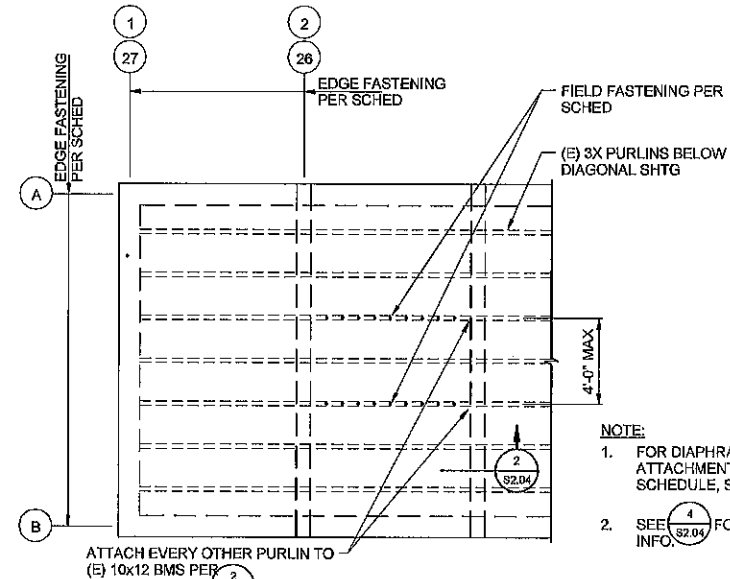
DWG: S2.03 (1/11/11) DATE: 1/11/11



**SECTION 2** — 1" = 1'-0"



**DETAIL 1** — 1" = 1'-0"

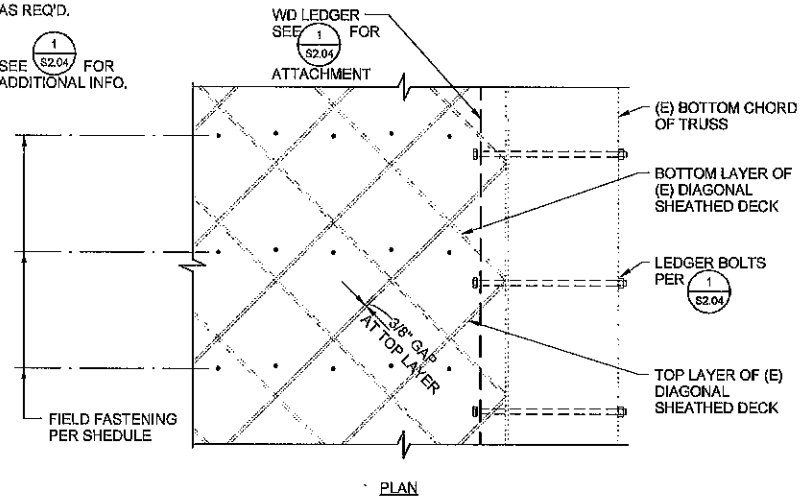


**DETAIL 3** — NO SCALE

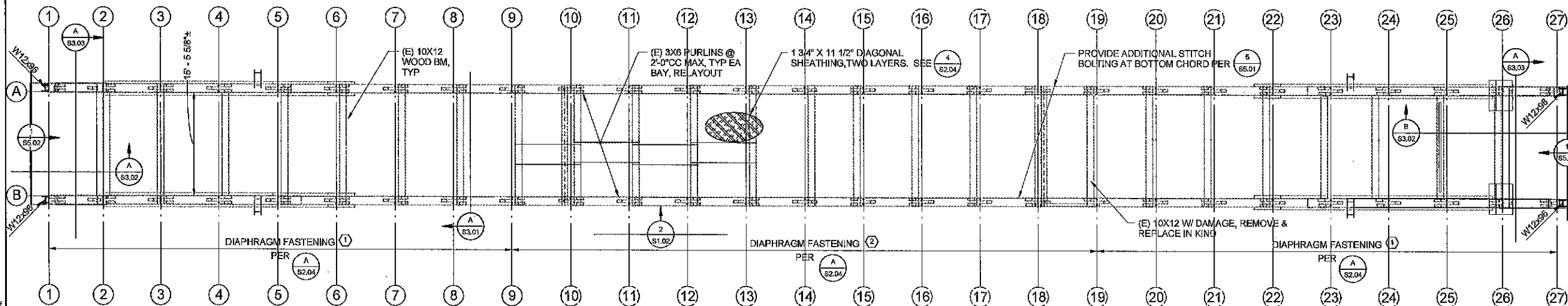
<b>(A) S2.04 DIAPHRAGM ATTACHMENT SCHEDULE</b>				
DIAPHRAGM FASTENING	TOP LAYER EDGE FASTENER	BOTTOM LAYER EDGE FASTENER	FIELD FASTENING	LEDGER TO BOTTOM CHORD FASTENER
①	1/4"Ø x 6" SDS SCREW @ 3 1/2" CC INSIDE ROW	1/4"Ø x 4 1/2" SDS SCREW @ 3 1/2" CC OUTSIDE ROW	1/4"Ø x 6" SDS SCREW @ 9" CC THROUGH TOP SHITG LAYER	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 @ 8" CC THROUGH TOP SHITG LAYER	3/4"Ø THRU BOLT @ 18" CC

**NOTES:**

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



**DETAIL 4** — 1" = 1'-0"



**FLOOR DECK PLAN** — 1/8" = 1'-0"



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CERTIFICATION # \_\_\_\_\_  
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ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL, SCHEMATIC DESIGN & FILE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION NORTHWEST SERVICE CENTER

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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.

SHEET NO.

**S2.04**

011 OF 029



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CERTIFICATION # \_\_\_\_\_  
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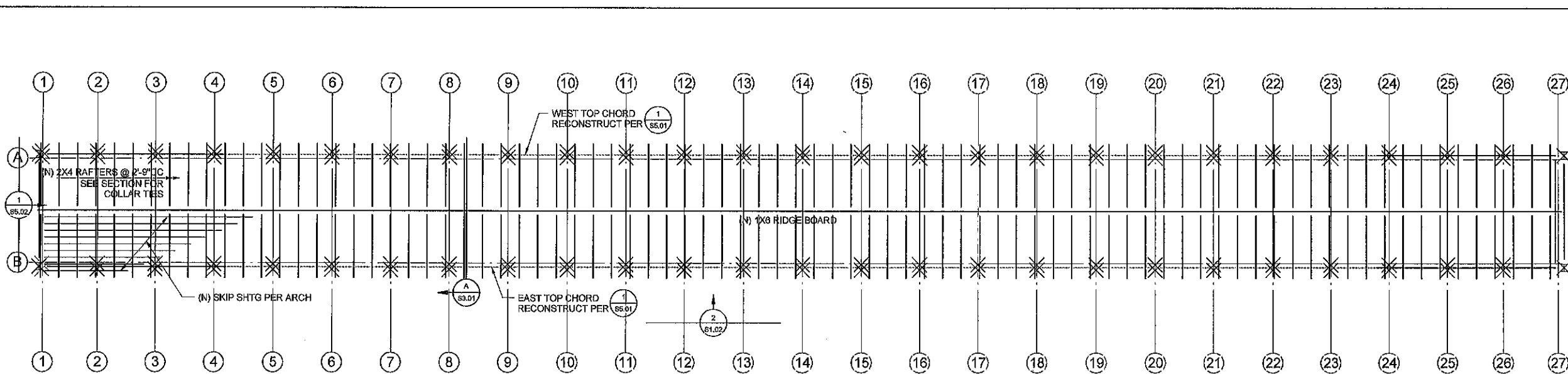
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
ROOF FRAMING PLAN

DRAWING NO.

SHEET NO.

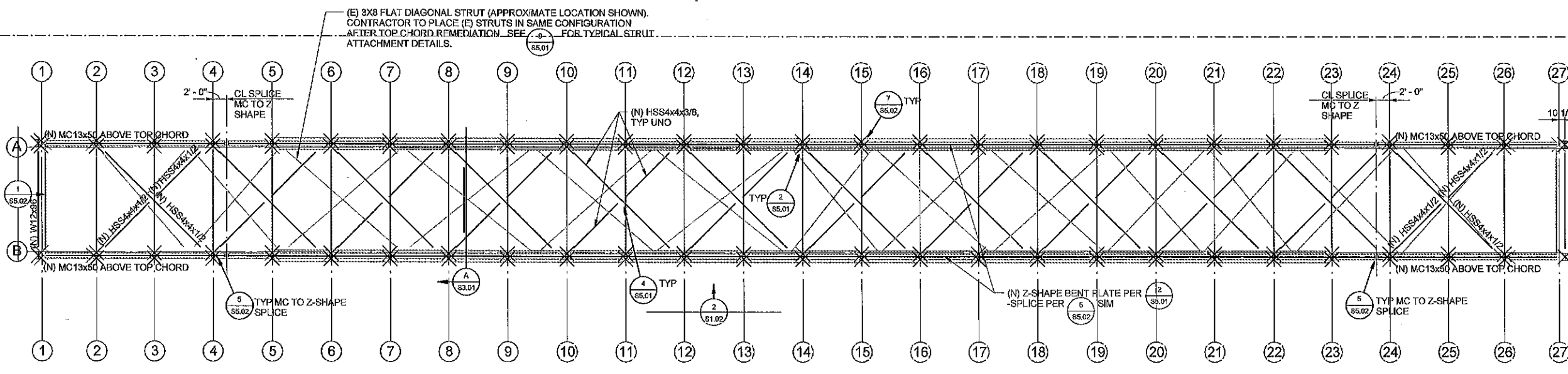
S2.05

012 OF 029



**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 CONFIGURATION. NEW STEEL TUBE BRACING WILL BE INSTALLED ABOVE PER DETAILS.



Duehler & Duehler  
Structural Engineers, Inc.  
600 Q Street, Suite 200, Sacramento, CA 95811  
tel 916.433.2000 fax 916.433.2015  
Sacramento, Flucrat, San Francisco



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Sacramento, CA  
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ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_

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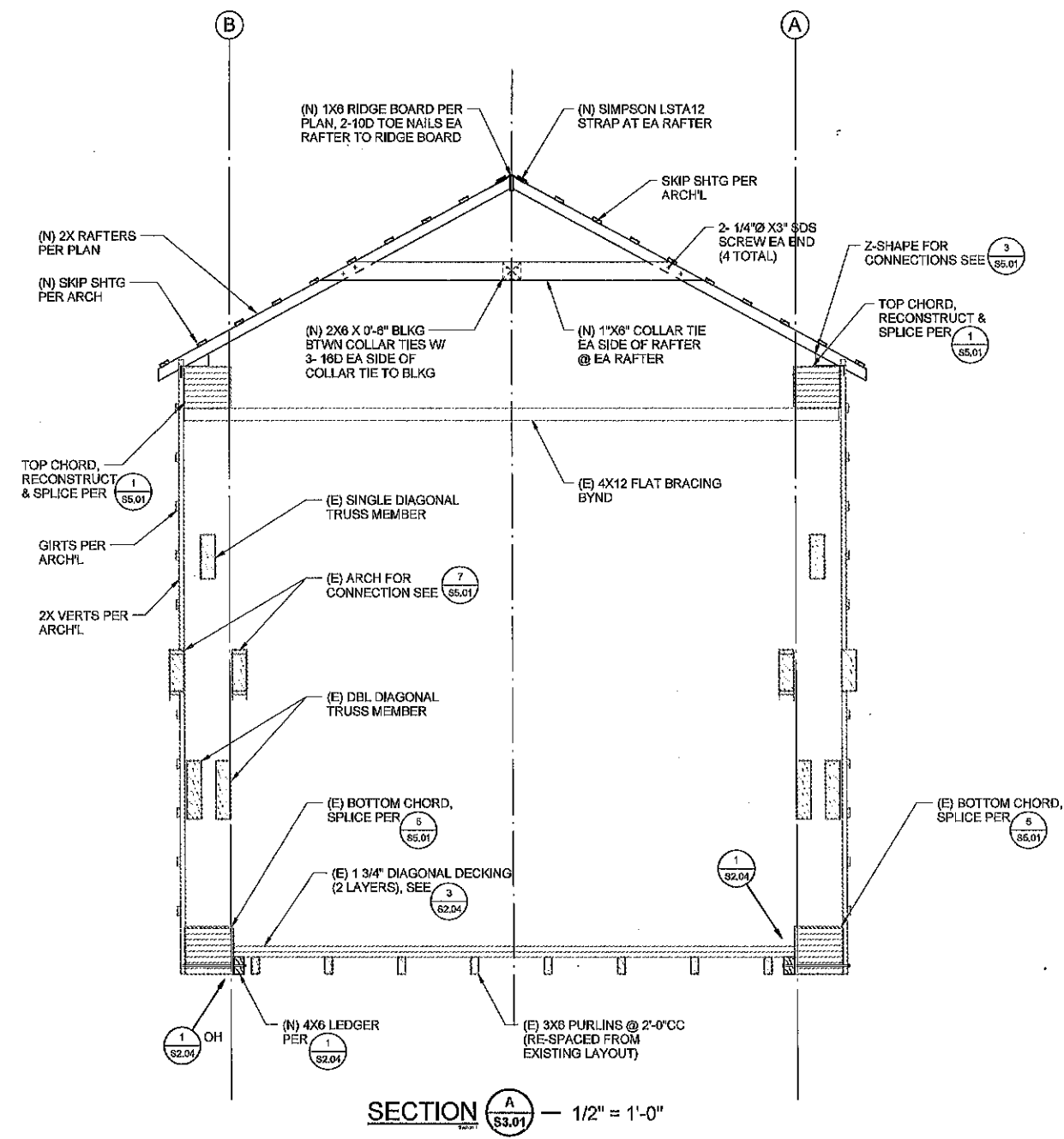
REVISIONS	
DATE	DATE

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

DRAWING NO. \_\_\_\_\_

SHEET NO.  
**S3.01**

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SECTION **A** — 1/2" = 1'-0"



Duchler & Duchler  
Structural Engineers, Inc.  
600 Q Street, Suite 200, Sacramento, CA 95811  
tel 916-411-0003 fax 916-411-0113  
Sacramento, Florida, San Francisco

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ACCURABILITY SECTION  
CERTIFICATION # \_\_\_\_\_  
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ACCURABILITY COMPLIANCE AND STATE FIRE MARSHAL REVIEW  
MARSHAL, SIGNED ORIGINALLY, SEE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

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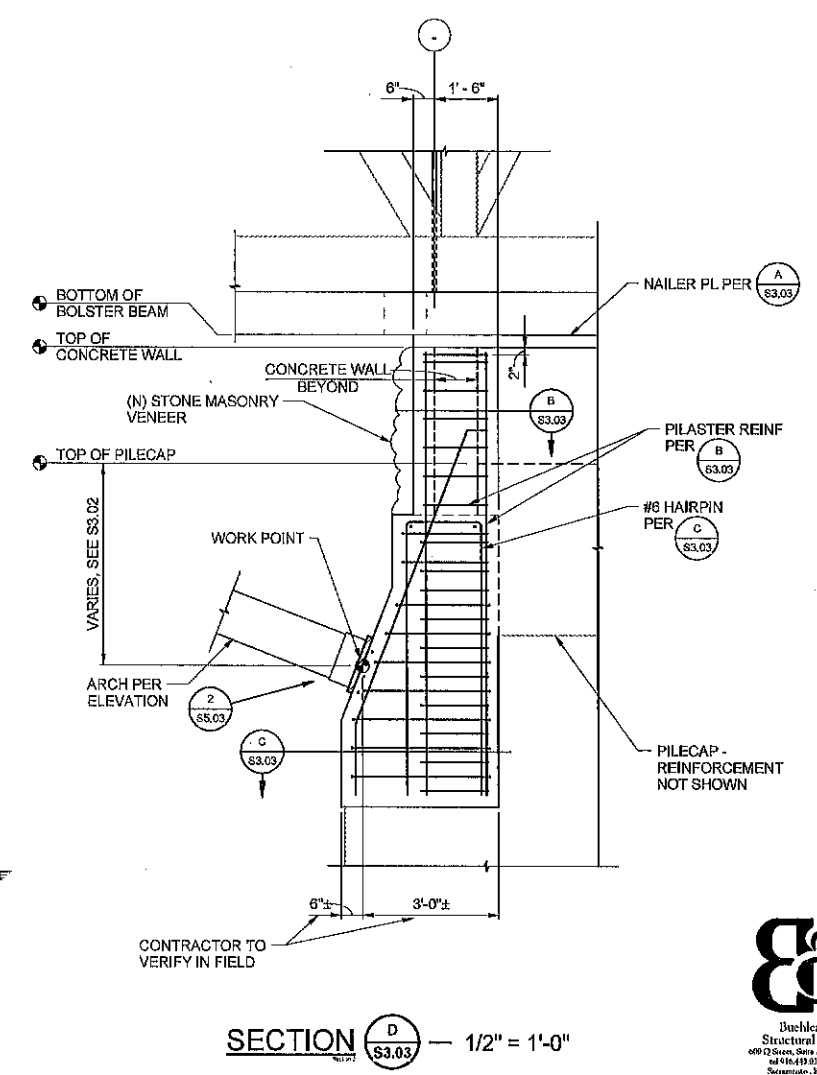
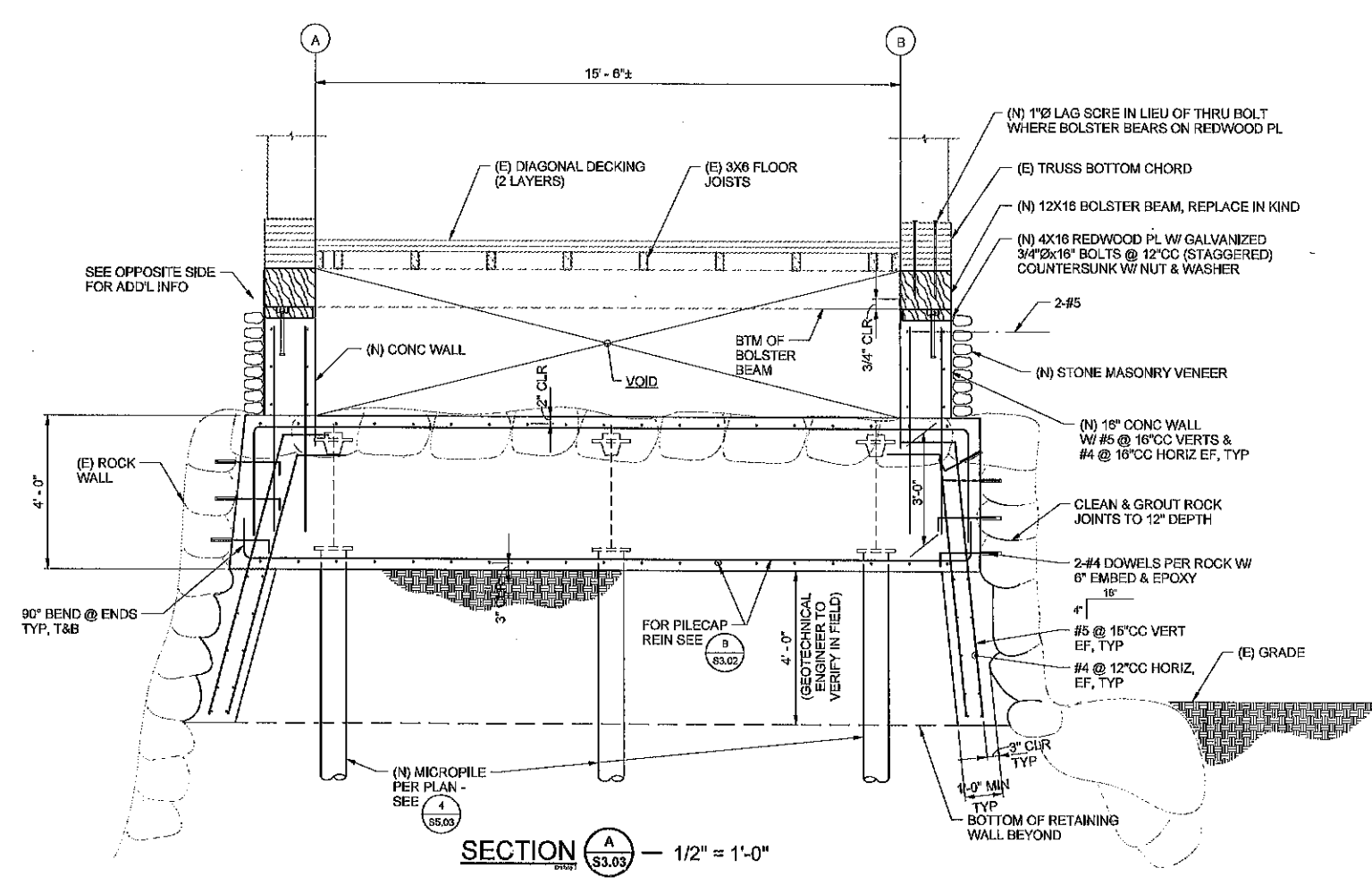
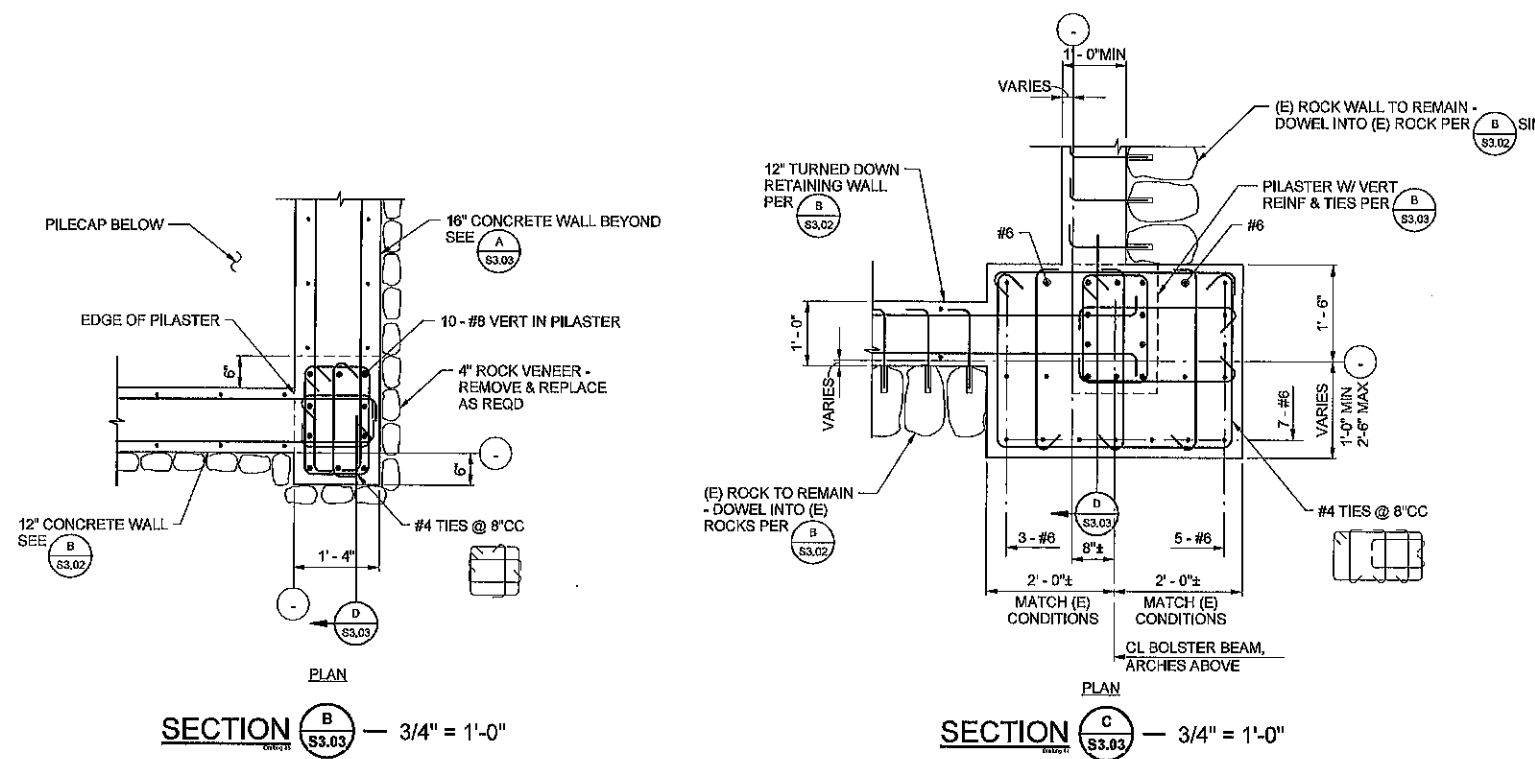
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
SECTIONS

DRAWING NO.

SHEET NO.

S3.03

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Buehler & Buehler  
Structural Engineers, Inc.  
600 O Street, Suite 200, Sacramento, CA 95811  
tel 916-433-2001 fax 916-433-0912  
Sacramento, 3000 State, 7th Floor

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Δ	DATE

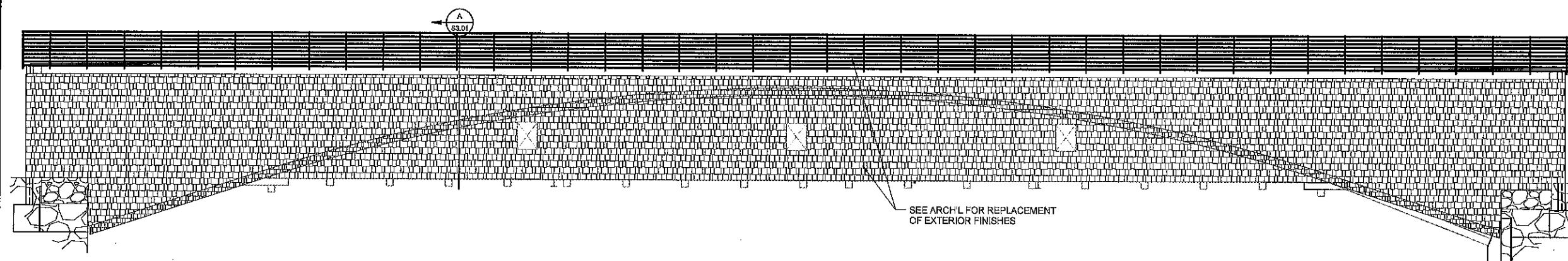
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
TRUSS ELEVATIONS

DRAWING NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

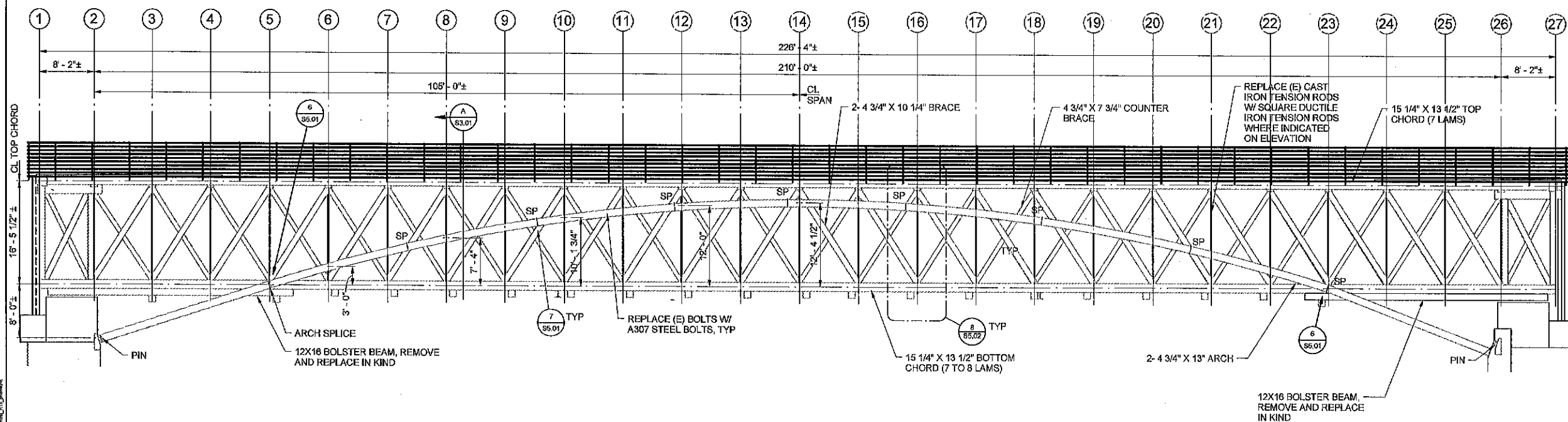
**S4.01**

016 OF 029



SEE ARCH'L FOR REPLACEMENT OF EXTERIOR FINISHES

BRIDGE EXTERIOR ELEVATION  $\frac{1}{84.01}$  — 1/8" = 1'-0"



BRIDGE STRUCTURE ELEVATION  $\frac{2}{84.01}$  — 1/8" = 1'-0"



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tel 916.433.8901 fax 916.433.8913  
Sacramento, Fluvius, Fox Henderson

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CERTIFICATION # \_\_\_\_\_  
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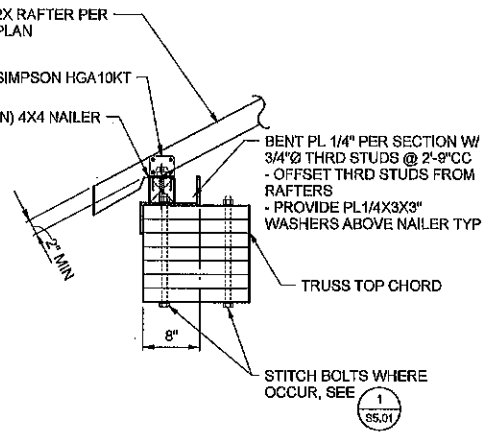
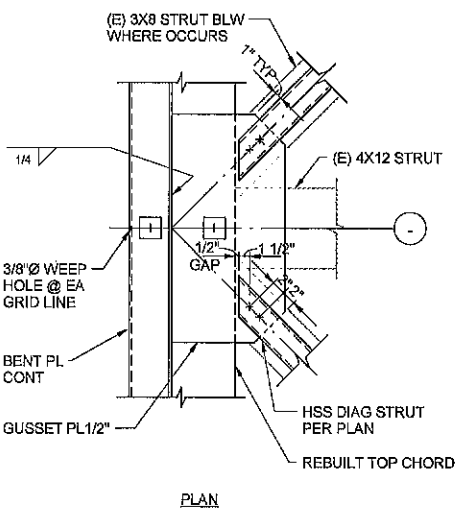
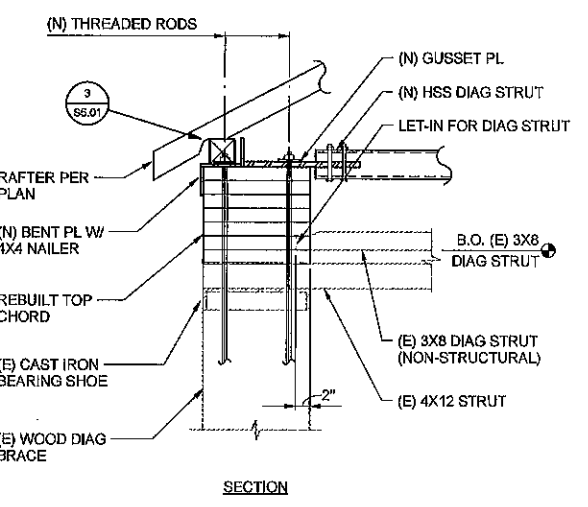
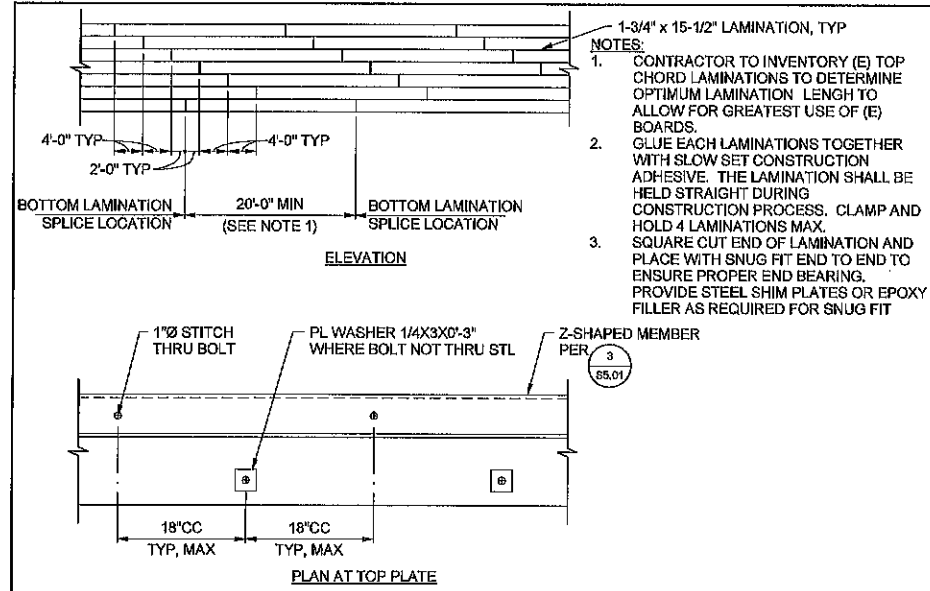
REVISIONS	DATE

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

DRAWING NO. \_\_\_\_\_

SHEET NO.  
**S5.01**

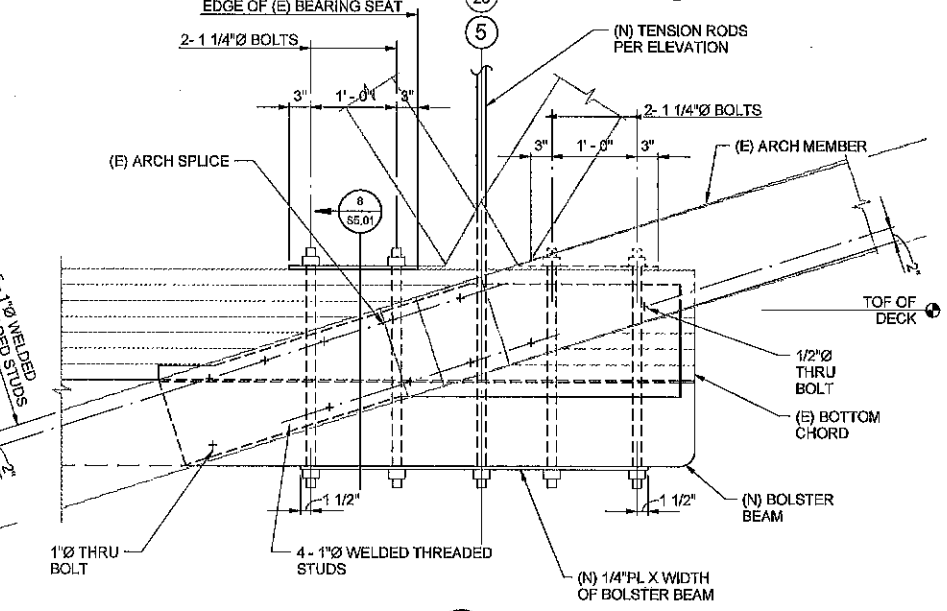
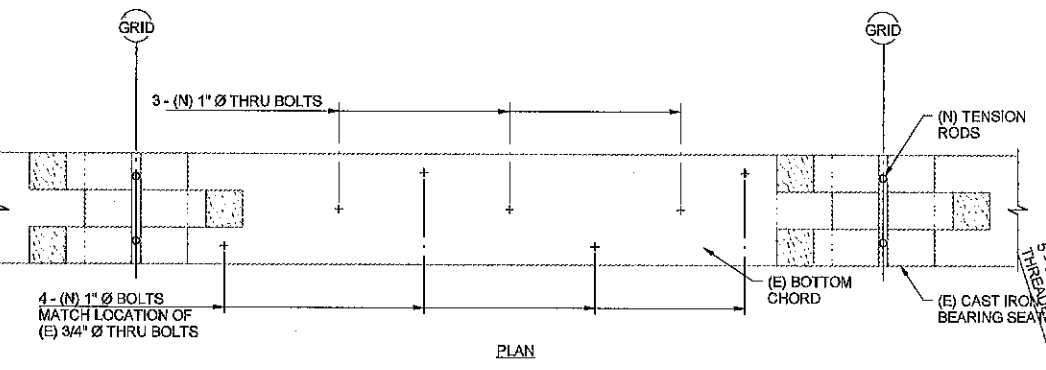
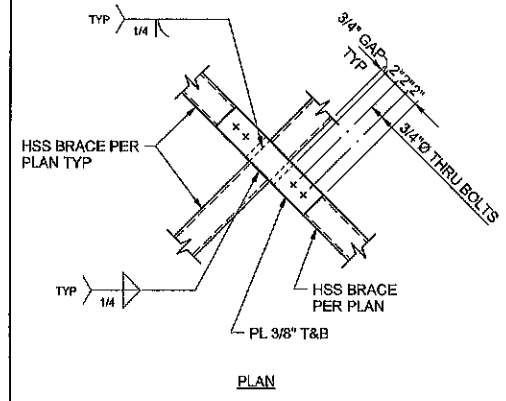
018 OF 028



**DETAIL 1** S5.01 - NOT TO SCALE

**DETAIL 2** S6.01 - 1" = 1'-0"

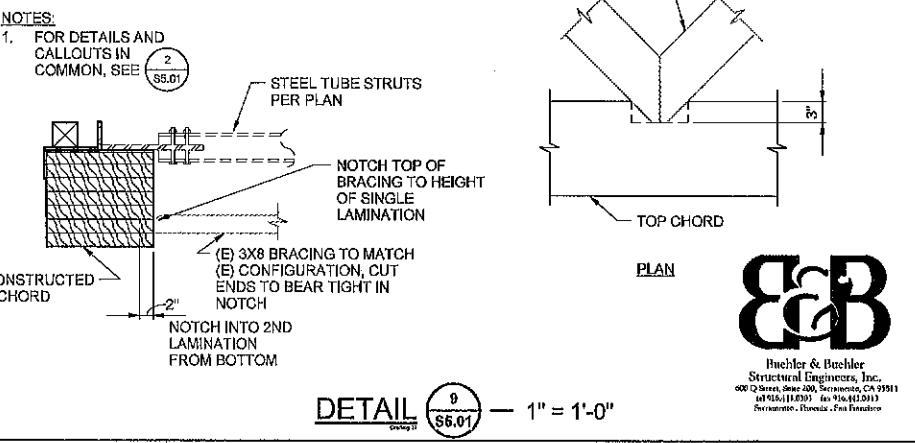
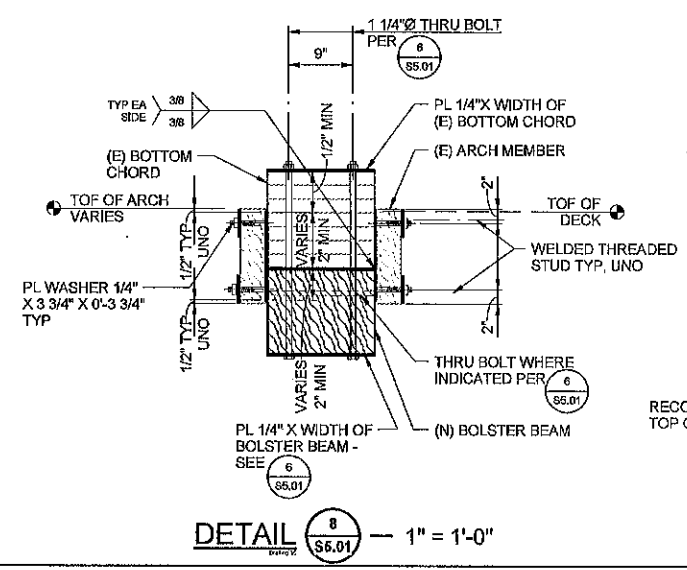
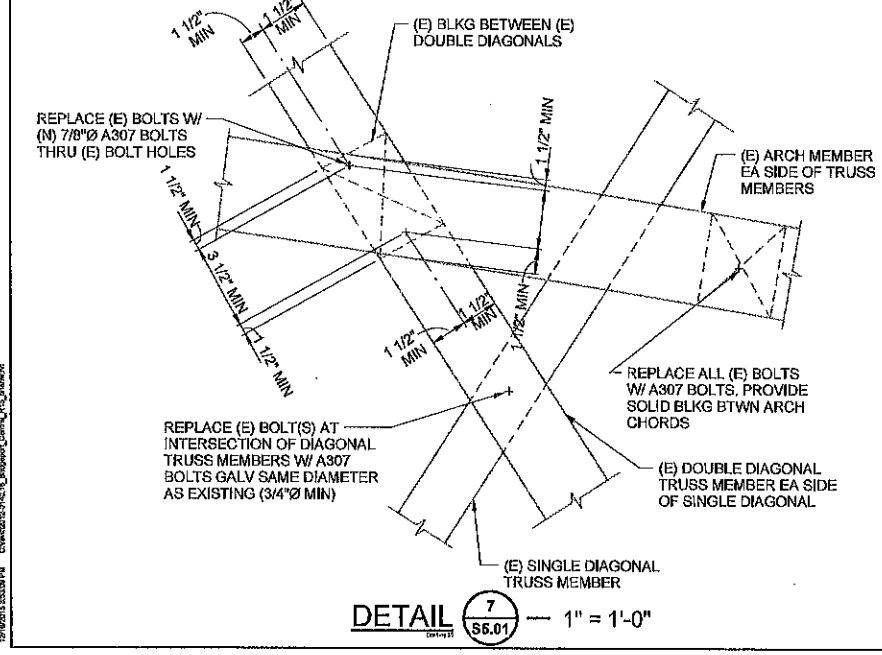
**DETAIL 3** S5.01 - 1" = 1'-0"



**DETAIL 4** S5.01 - 1" = 1'-0"

**DETAIL 5** S6.01 - 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** S6.01 - 1" = 1'-0"



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916.441.1100 | Fax 916.441.2013  
Sacramento, Florida - Fax 916.441.2013



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NO.	DATE

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

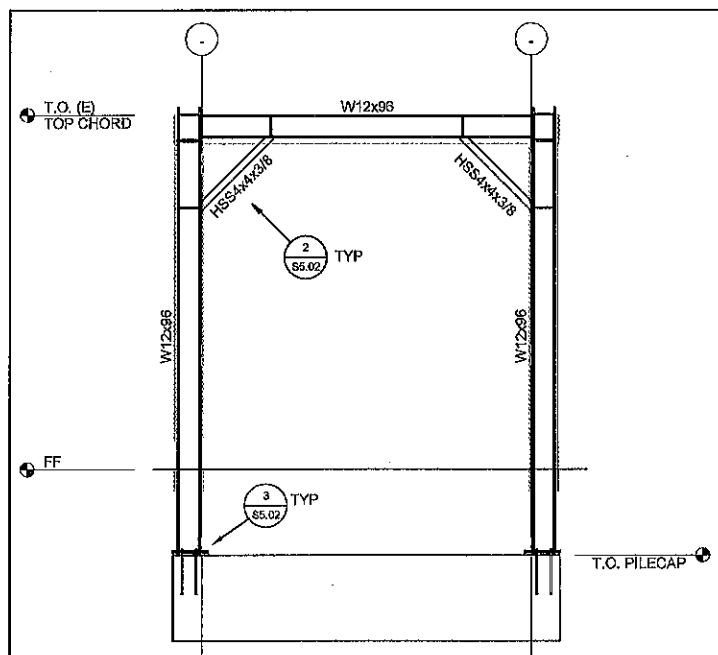
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SHEET NO.  
**S5.02**

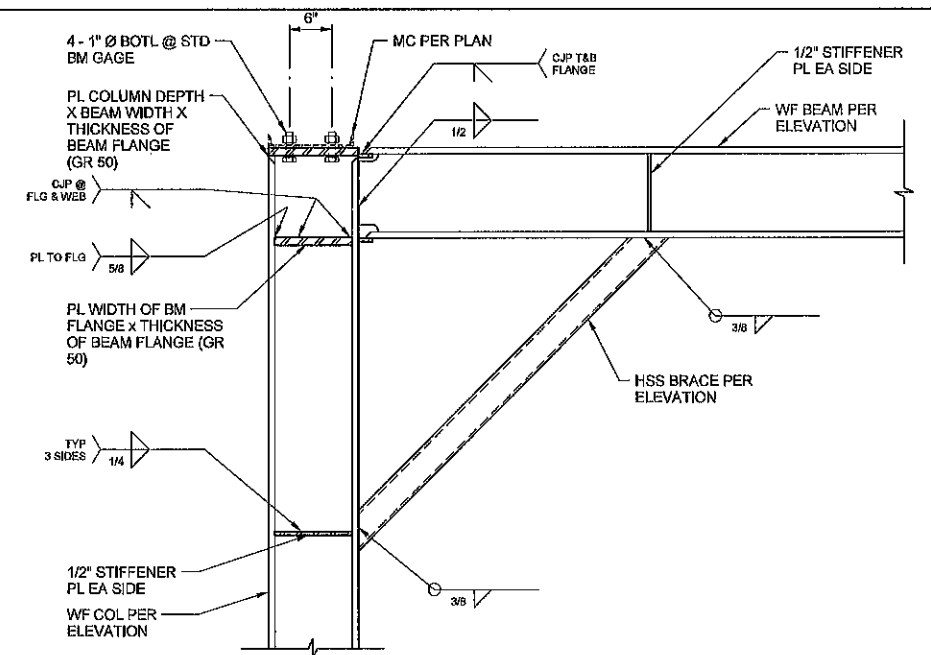
019 OF 029



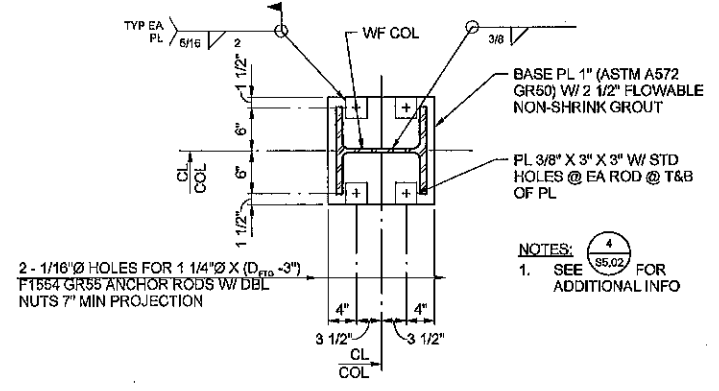
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609 Q Street, Suite 200, Sacramento, CA 95811  
Tel: (916) 441-2200 Fax: (916) 441-0513  
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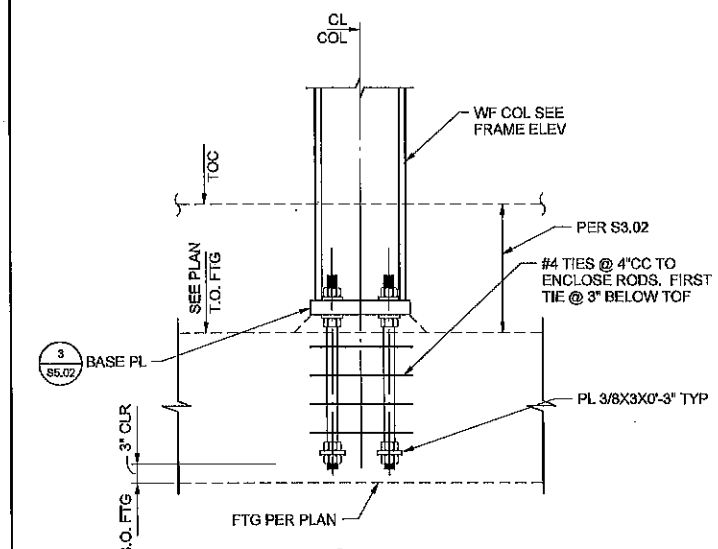
**ELEVATION 1** — 1/4" = 1'-0"  
S5.02



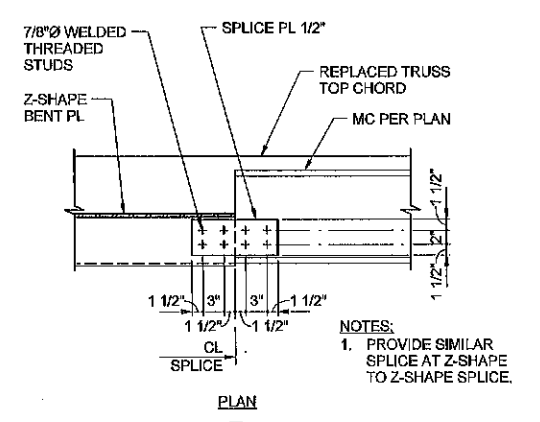
**DETAIL 2** — 1" = 1'-0"  
S5.02



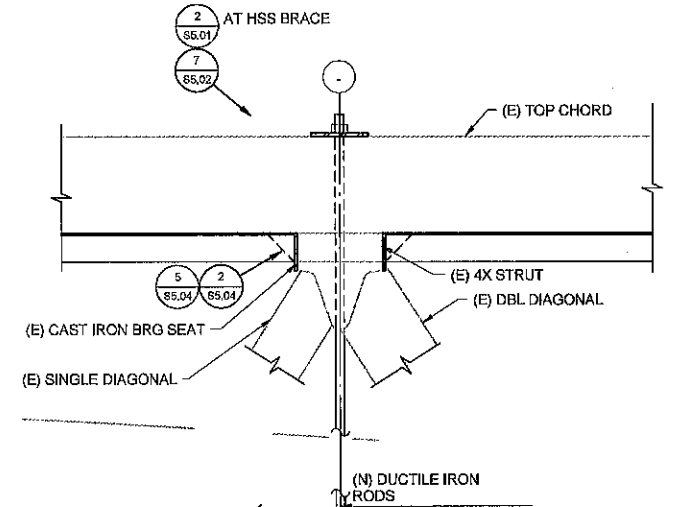
**DETAIL 3** — 1" = 1'-0"  
S5.02



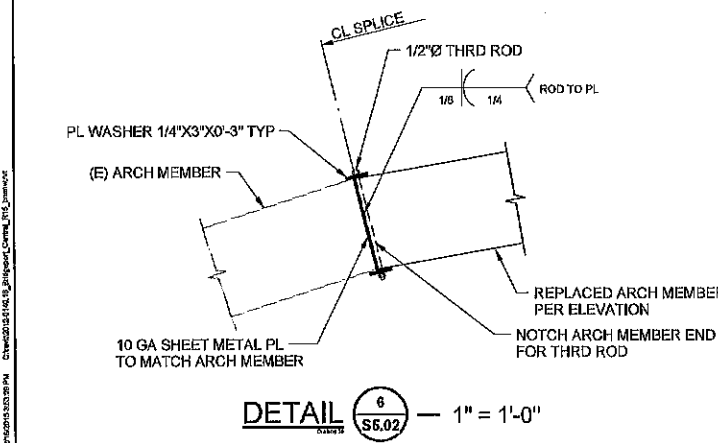
**DETAIL 4** — NOT TO SCALE  
S5.02



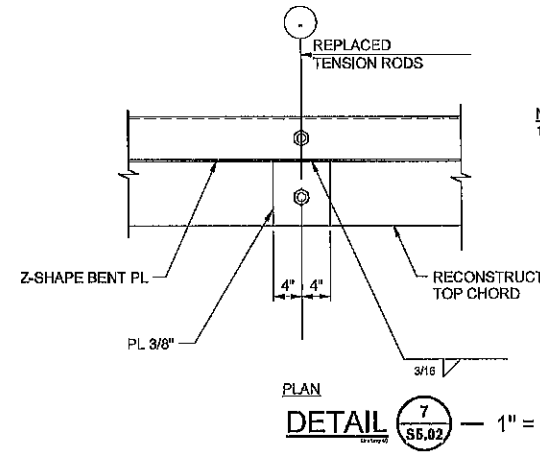
**DETAIL 5** — 1" = 1'-0"  
S5.02



**DETAIL 8** — 1" = 1'-0"  
S5.02



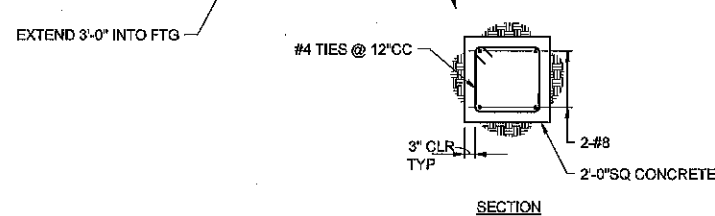
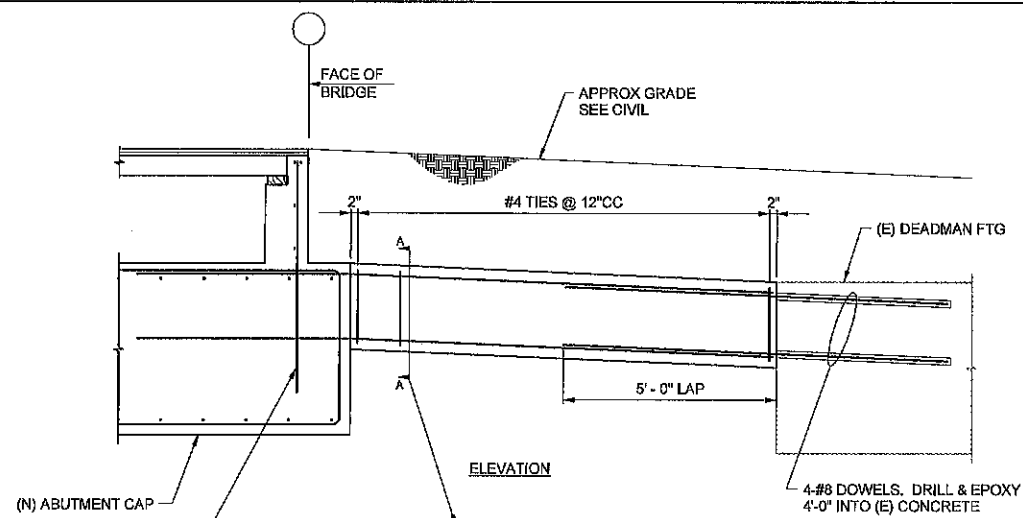
**DETAIL 6** — 1" = 1'-0"  
S5.02



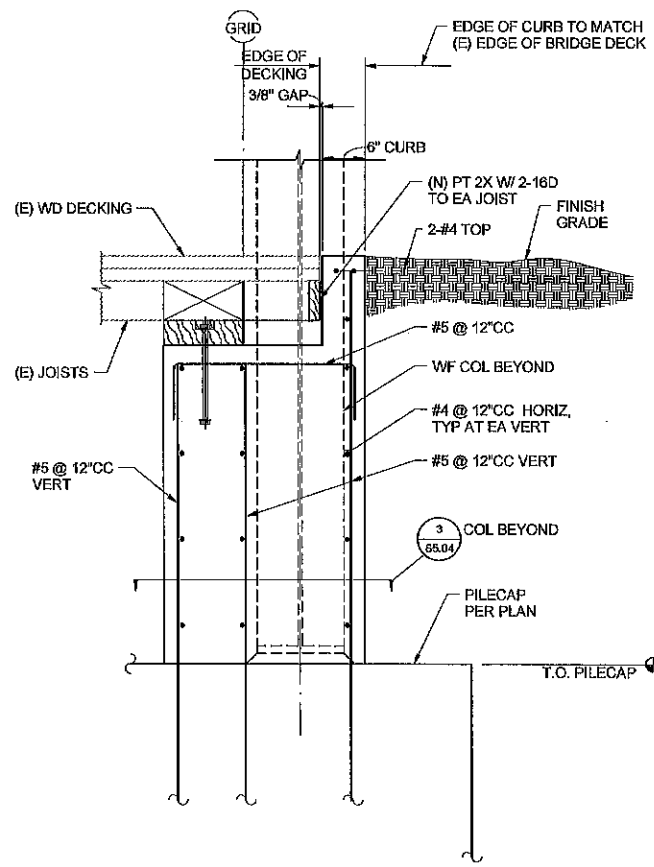
**DETAIL 7** — 1" = 1'-0"  
S5.02

NOTES:  
1. SEE S5.04 WHERE HSS HORIZ BRACES ATTACH TO Z-SHAPE PL.

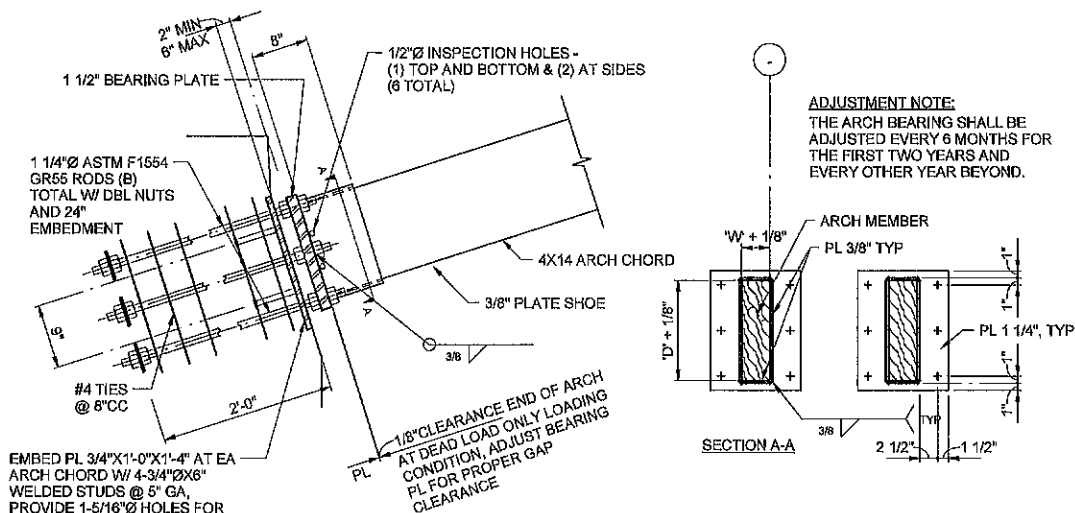
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DETAIL 1 S5.03 1/2" = 1'-0"



DETAIL 3 S5.03 1" = 1'-0"

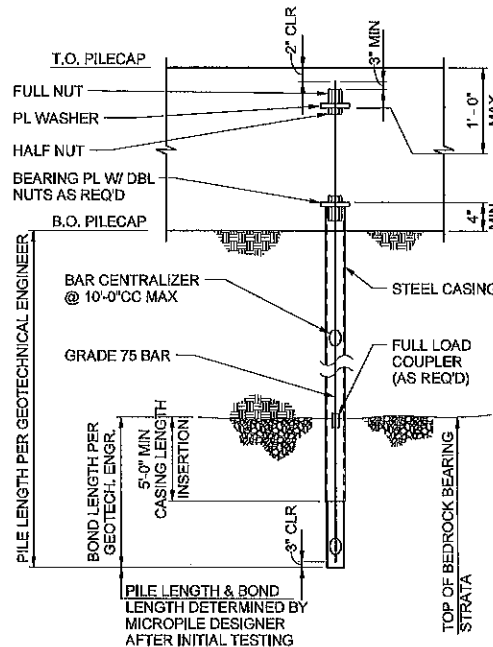


ADJUSTMENT NOTE:  
THE ARCH BEARING SHALL BE ADJUSTED EVERY 6 MONTHS FOR THE FIRST TWO YEARS AND EVERY OTHER YEAR BEYOND.

EMBED PL 3/4"X1'-0"X1'-4" AT EA ARCH CHORD W/ 4-3/4"ØX6" WELDED STUDS @ 5" GA, PROVIDE 1-5/16" Ø HOLES FOR RODS

DETAIL 2 S5.03 1" = 1'-0"

NOTE:  
ALL PARTS HOT-DIP GALVANIZED AND PAINTED BLACK



NOTES:

- DESIGN LOAD CAPACITY:  
D = DEAD LOAD  
L = LIVE LOAD  
H = SOIL LOAD
- MATERIAL SPECIFICATIONS:  
A) GROUT - A NEAT MIX OF PORTLAND CEMENT (TYPE III) CONFORMING TO ASTM C150 WITH A WATER CEMENT RATIO OF APPROXIMATELY 0.45. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE GROUT SHALL BE 5,000 PSI.  
B) REINFORCING BAR - THE REINFORCING BAR SHALL BE GRADE 75 DYWIDAG THREADBAR (OR EQUIVALENT) CONFORMING TO ASTM A-816. 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 0.415" MINIMUM WALL THICKNESS - 80 KSI YIELD STRENGTH MANUFACTURED TO API N-80 SPECIFICATIONS.  
D) PLATE - STEEL PLATE SHALL CONFORM TO ASTM A672 GRADE 50.
- 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 3 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.
- DESIGN OF PILES TO CONFORM WITH SOILS REPORT # 59030-05-41 BY GEOCON CONSULTANTS DATED MAY 2015.
- INSTALLATION TO BE PERFORMED BY A QUALIFIED CONTRACTOR WITH A MINIMUM OF 5 YEARS OF EXPERIENCE WITH THIS TYPE OF FOUNDATION.
- 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.
- MINIMUM PILE SPACING 3'-0" CENTER TO CENTER.
- PROVIDE PILE DESIGN CALCULATIONS FOR APPROVAL SIGNED BY CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.

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  
SEE GEOTECHNICAL REPORT FOR ULTIMATE BONDING STRESS

MICRO-PILE NOTES 4 S5.03



ACQUISITION & DEVELOPMENT DIVISION  
One Capitol Mall  
Sacramento, CA  
95814-3228



CALIFORNIA STATE FIRE MARSHAL-APPROVED  
Approval of this plan does not constitute 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 # \_\_\_\_\_

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

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

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

REVISIONS	
NO.	DATE

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

DRAWING NO.

SHEET NO.

S5.03

020 OF 029



Buehler & Buehler  
Structural Engineers, Inc.  
680 Q Street, Suite 200, Sacramento, CA 95811  
Tel: 916.442.0000 Fax: 916.442.0011  
Sacramento - Florissant - San Francisco





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



CALIFORNIA STATE FIRE MARSHAL - APPROVED  
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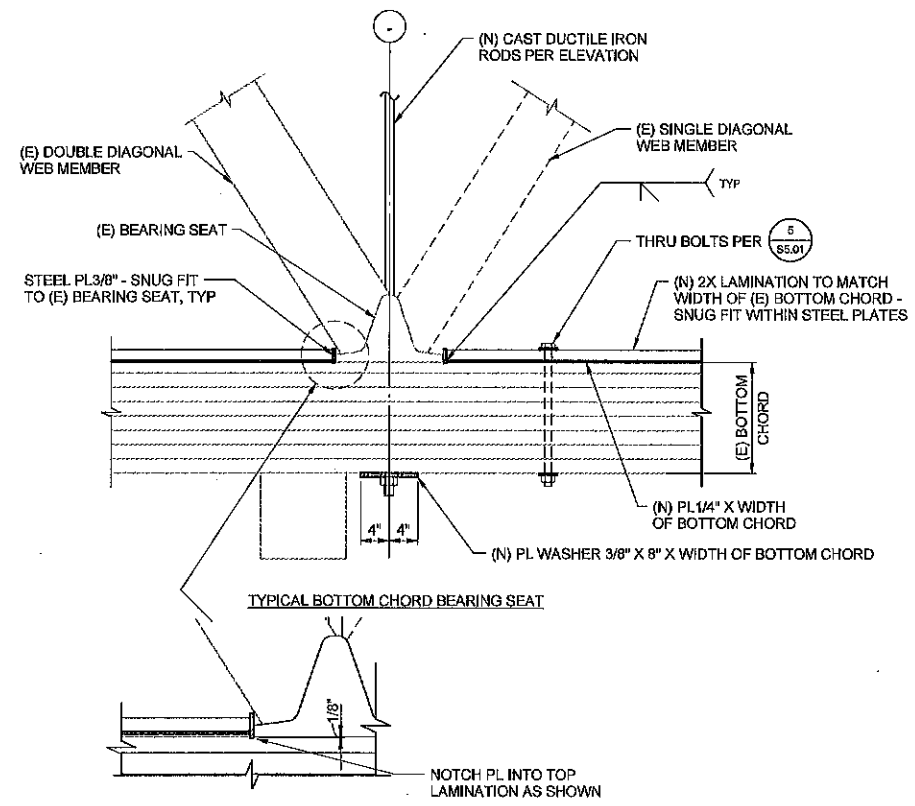
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OPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_  
Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

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

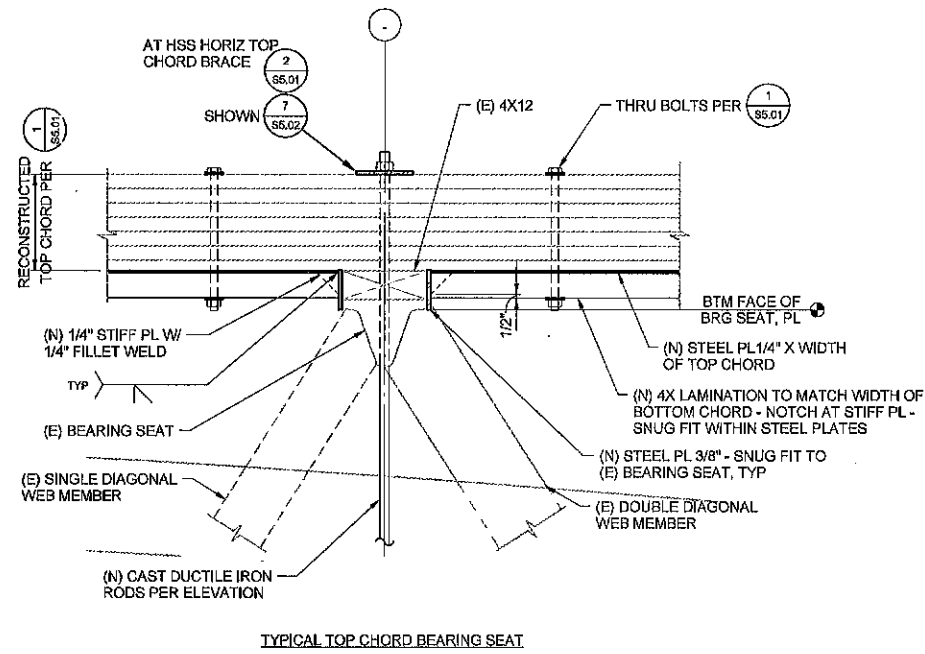
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DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
DATE: Issue Date

REVISIONS	
NO.	DATE

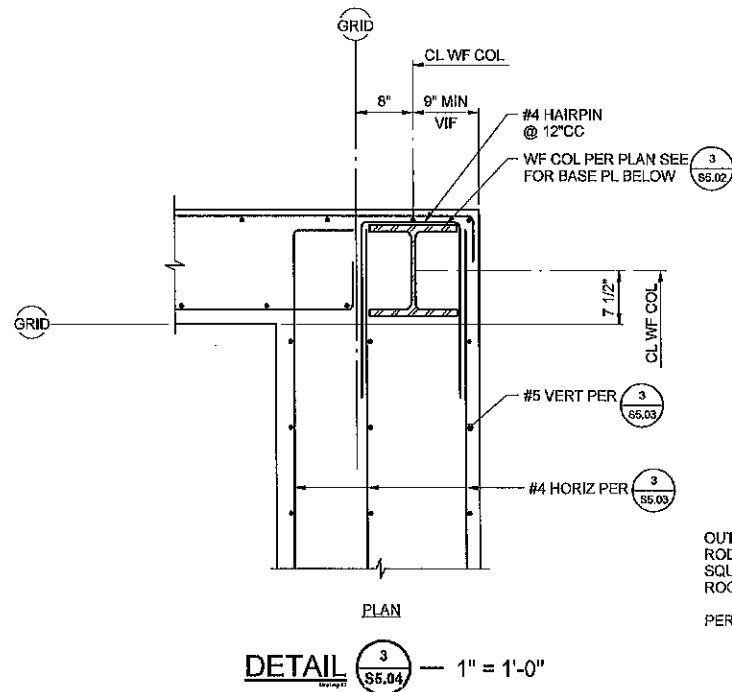
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE REHABILITATION AND RESTORATION  
DETAILS



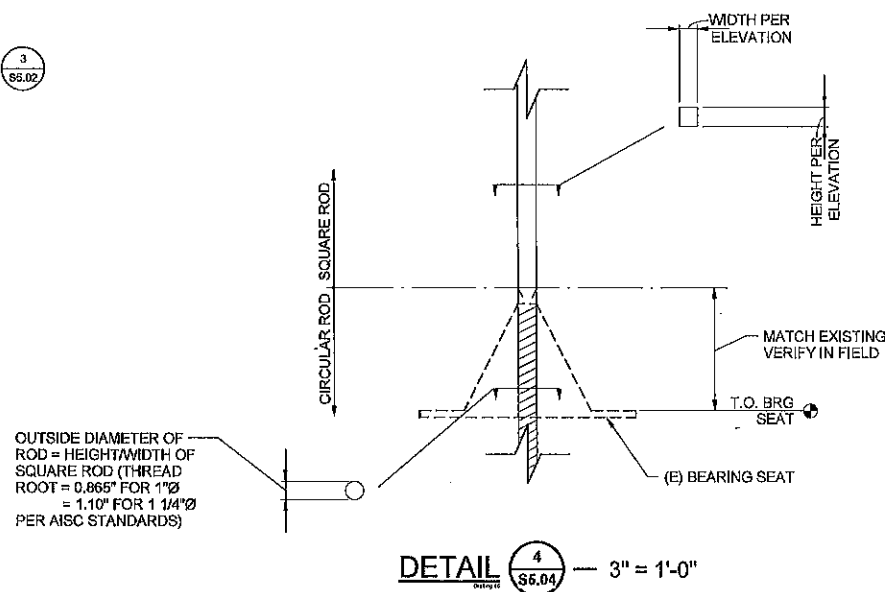
DETAIL 1  
S5.04 — 1" = 1'-0"



DETAIL 2  
S5.04 — 1" = 1'-0"



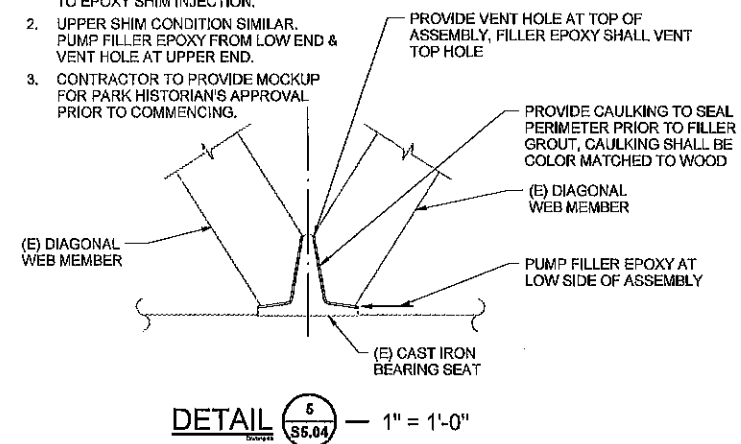
DETAIL 3  
S5.04 — 1" = 1'-0"



DETAIL 4  
S5.04 — 3" = 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.



DETAIL 5  
S5.04 — 1" = 1'-0"



Buehler & Buehler  
Structural Engineers, Inc.  
607 Q Street, Suite 200, Sacramento, CA 95811  
916.441.8100 Fax 916.441.8115  
Sacramento, Modesto, San Francisco

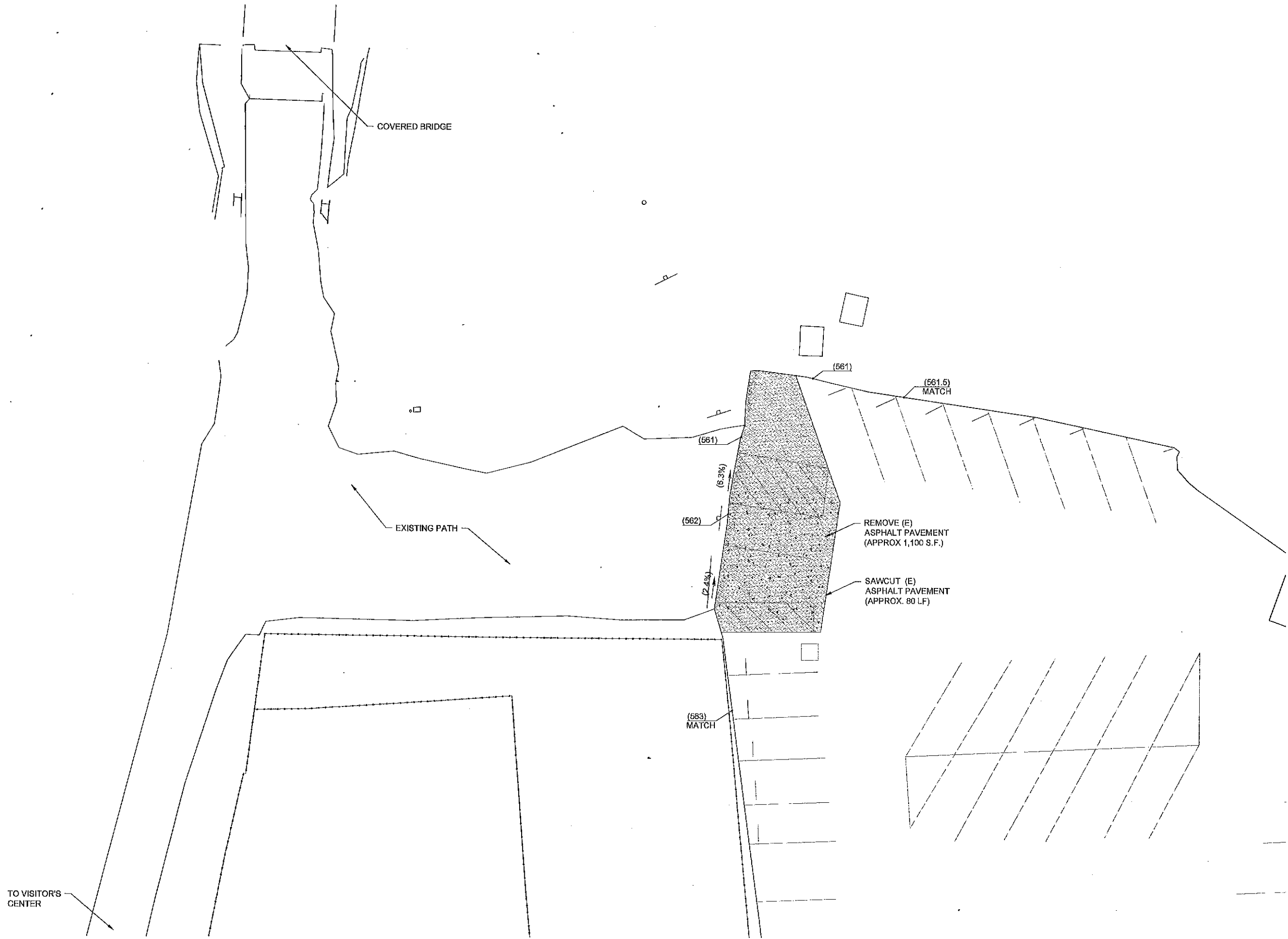
DRAWING NO.

SHEET NO.

S5.04

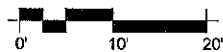
021 OF 028

C:\p021\352510.PLT C:\p021\352510.dwg Plot Date: 11/15/2011 10:41:00 AM



**EXISTING CONDITIONS & DEMO PLAN**

SCALE @ 22"X34" 1"=10'



ACQUISITION &  
DEVELOPMENT DIVISION  
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Sacramento, CA  
95814-3229



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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 # \_\_\_\_\_

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: A. SUTTER  
DRAWN: A. SUTTER  
CHECKED: A. SUTTER  
DATE: 12-17-2015

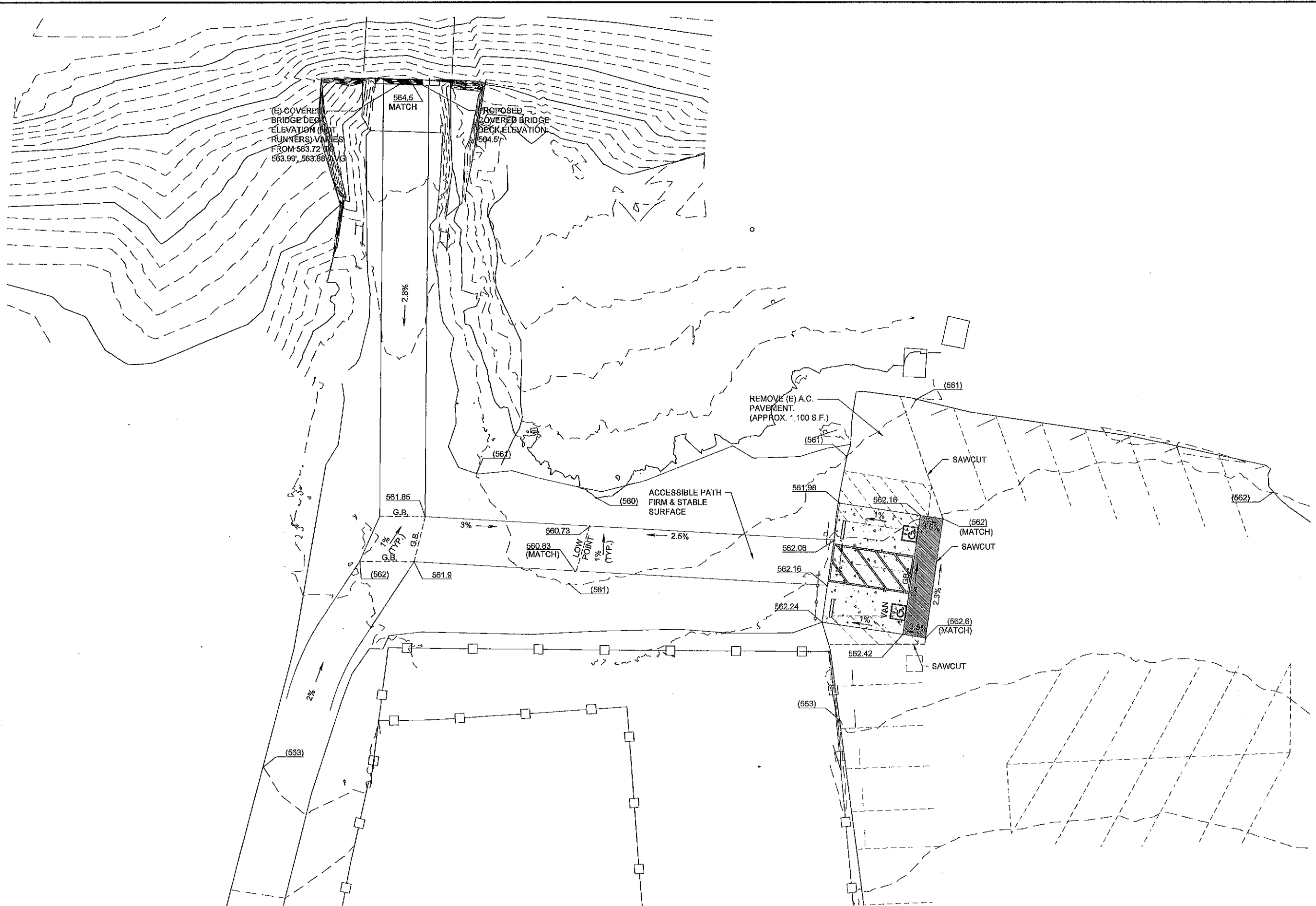
REVISIONS	
NO.	DATE

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

DRAWING NO.  
30419.022

SHEET NO.  
**C1**

022 OF 029



**GRADING PLAN**  
SCALE @ 22"X34" 1"=10'



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95814-3229



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

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_

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: A. SUTTER  
DRAWN: A. SUTTER  
CHECKED: A. SUTTER  
DATE: 12-17-2016

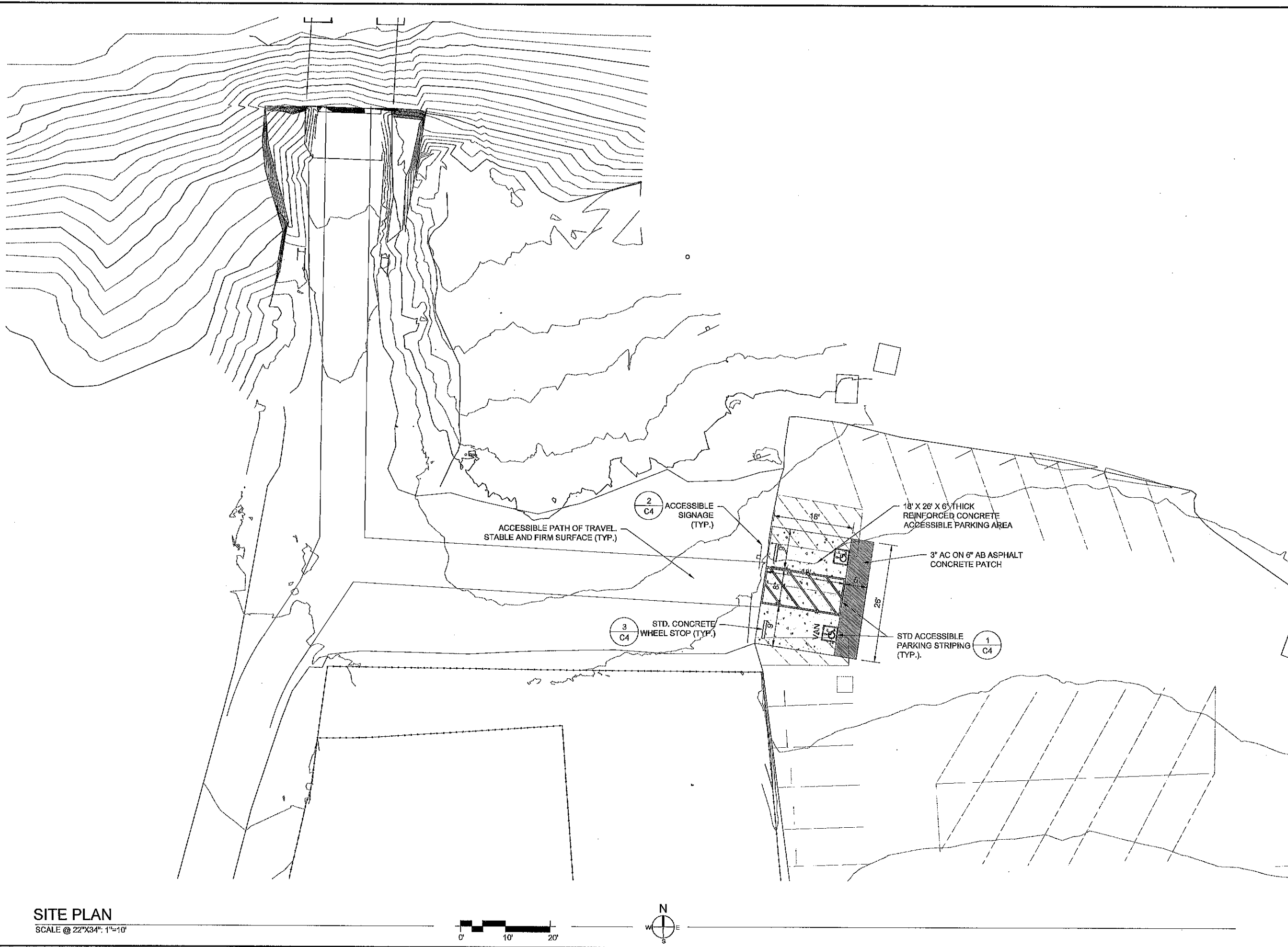
REVISIONS	DATE

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

DRAWING NO.  
30419.023

SHEET NO.  
**C2**

023 OF 029



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 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.

Reviewed by	Date
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION	
CERTIFICATION #	
Reviewed by	Date
ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL REVIEW ORIGINALS ARE COVERED AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER	

DESIGNED:	A. SUTTER
DRAWN:	A. SUTTER
CHECKED:	A. SUTTER
DATE:	12-17-2015

REVISIONS	
	DATE

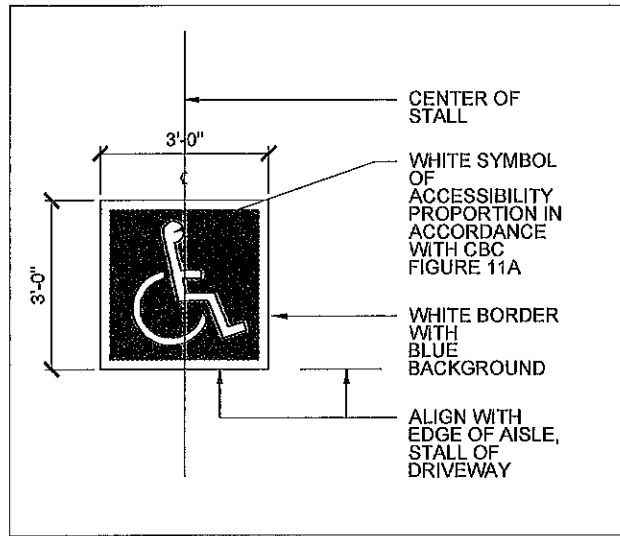
SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE

## SITE PLAN

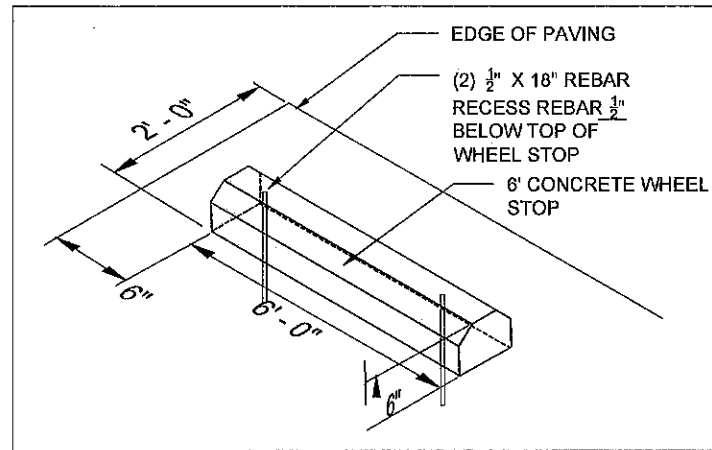
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30419.024

SHEET NO.  
**C3**  
024 OF 029

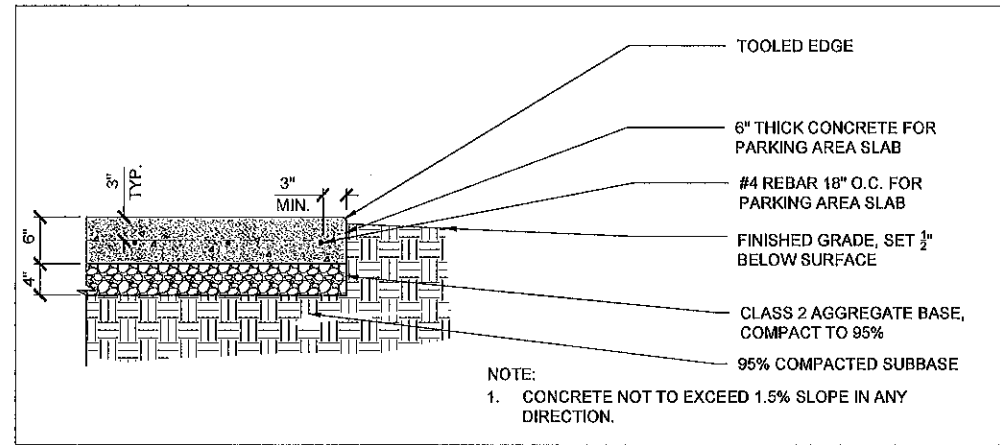




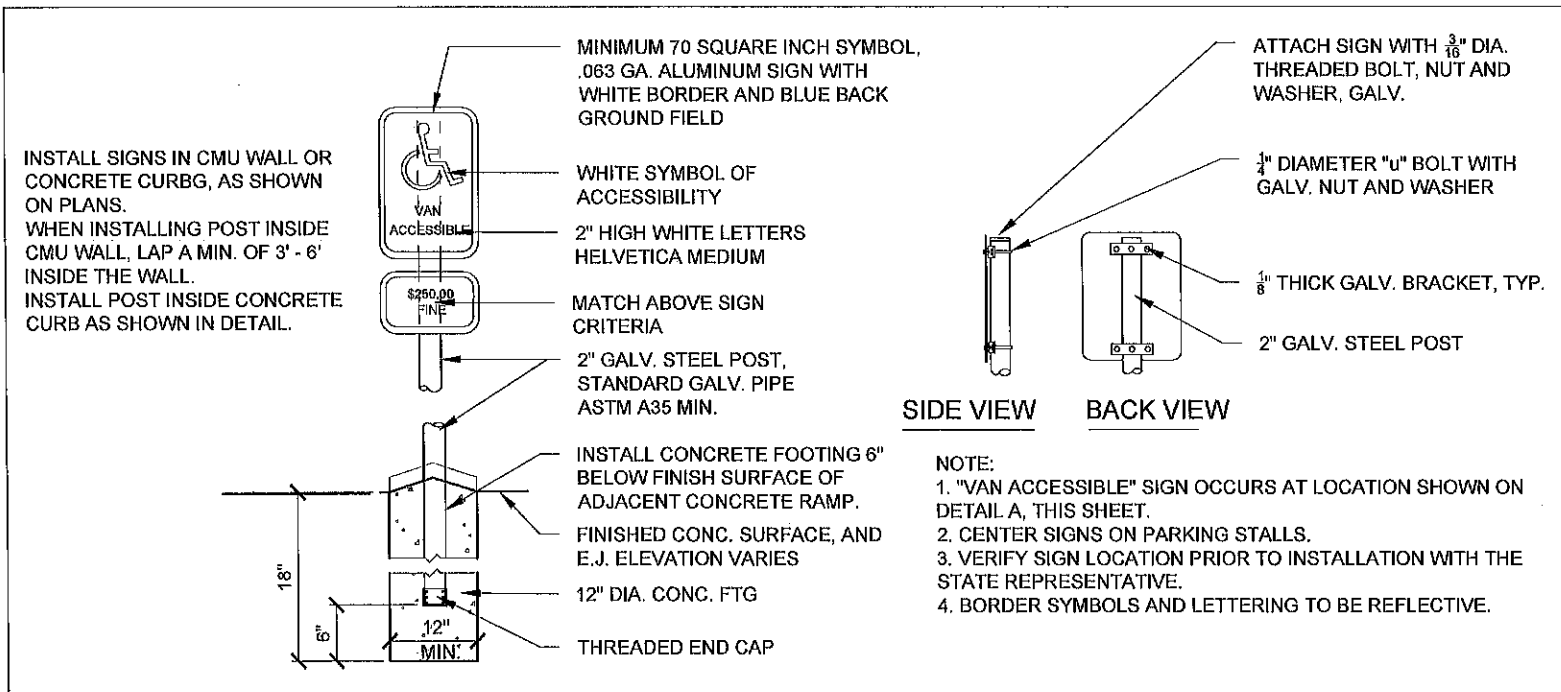
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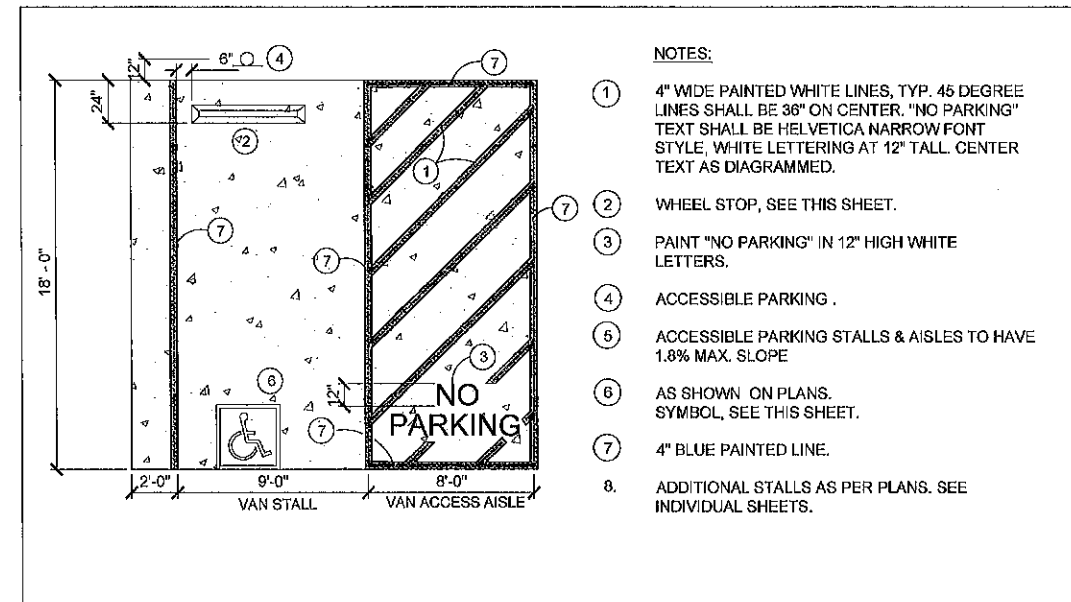
3 WHEEL STOP  
SCALE@22X34 1 51/256" = 1'-0"



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



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



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



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One Capitol Mall  
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95814-3229



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Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_  
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: A. SUTTER  
DRAWN: A. SUTTER  
CHECKED: A. SUTTER  
DATE: 12-17-2015

REVISIONS	
NO.	DATE

SOUTH YUBA RIVER STATE PARK  
HISTORIC COVERED BRIDGE

DETAILS

DRAWING NO.  
30419.025

SHEET NO.  
C4

025 OF 029



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One Capitol Mall  
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95814-3229

XREF  
STAMP

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Reviewed by: \_\_\_\_\_ Date: \_\_\_\_\_  
DPR ACCESS COMPLIANCE REVIEW ACCESSIBILITY SECTION CERTIFICATION # \_\_\_\_\_  
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: 12.08.2015

REVISIONS	
NO.	DATE

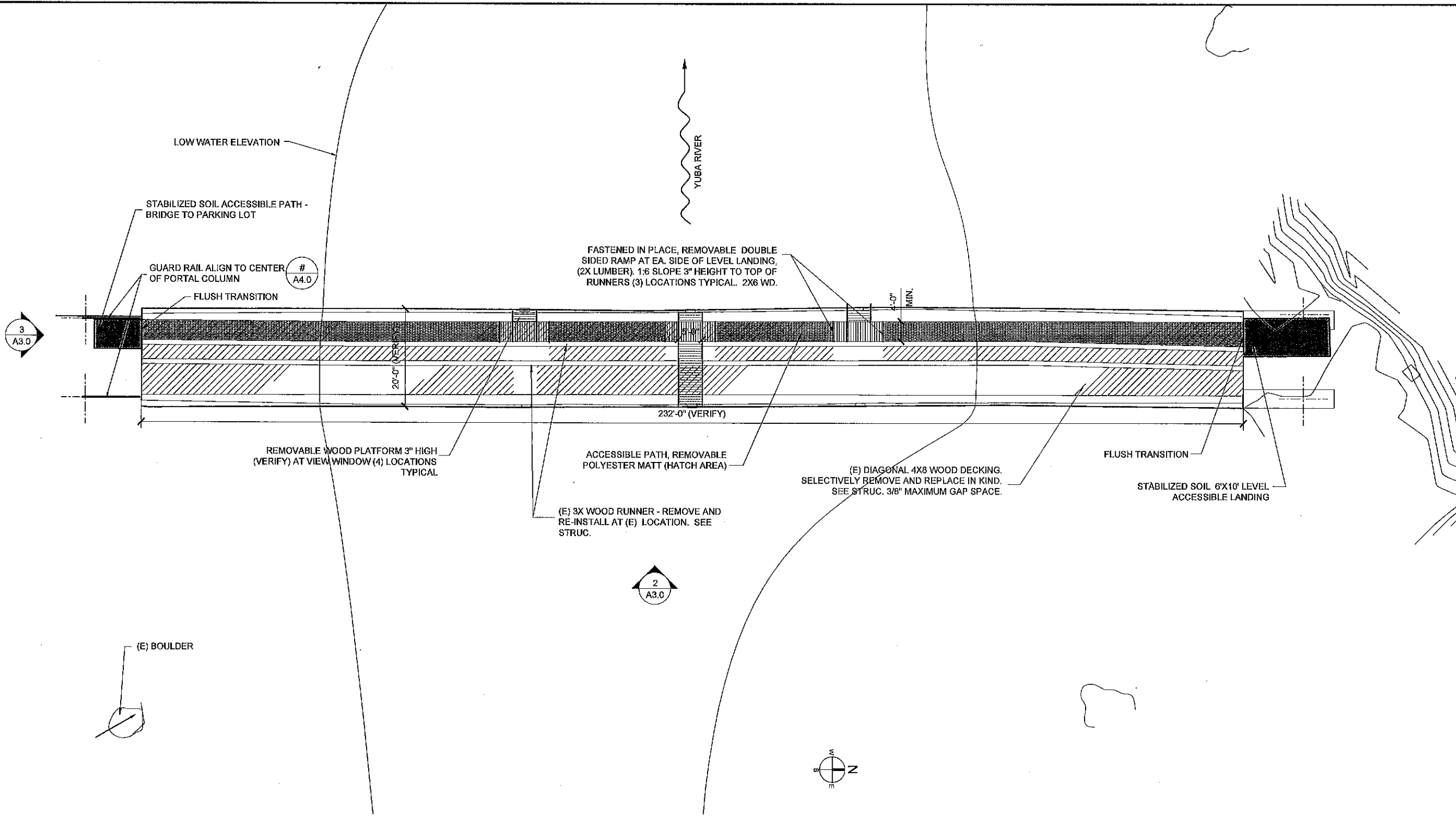
SOUTH YUBA RIVER STATE PARK  
COVERED BRIDGE REHAB  
**FLOOR DECK PLAN - ARCHITECTURAL**

DRAWING NO.  
30419.026

SHEET NO.  
**A2.0**

026 OF 029

File: C:\Users\GDELA\Documents\Drawing1.dwg Layout: Model Date: December 02 2015 - 7:31 am User: GDELA



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



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

XREF  
STAMP

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

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_

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: 12.08.2015

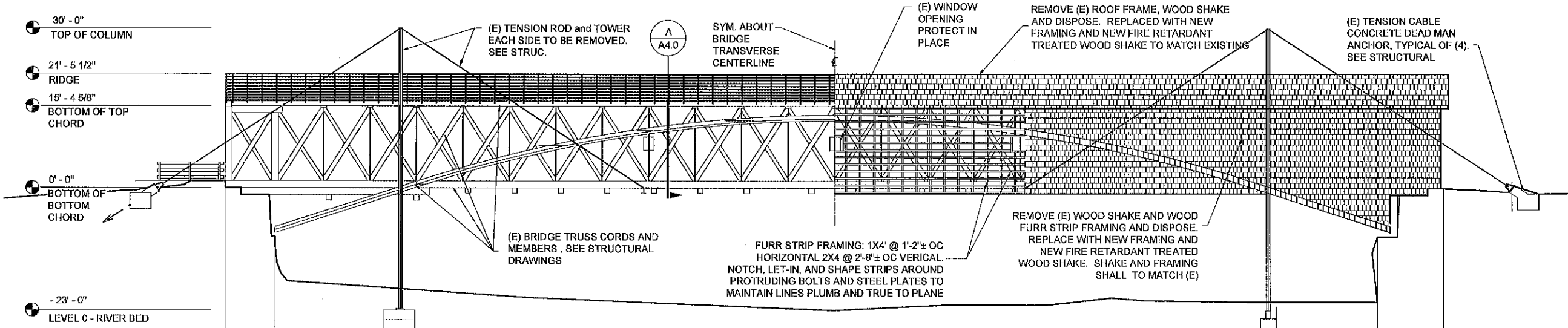
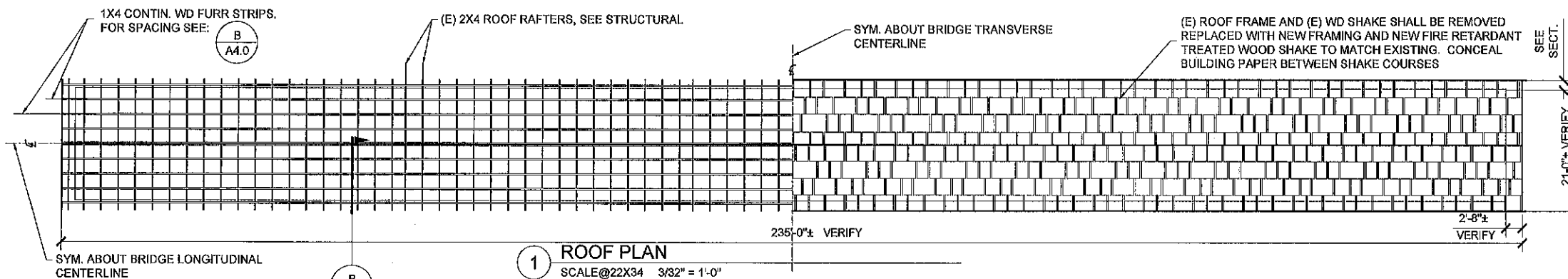
REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
COVERED BRIDGE REHAB  
**ROOF PLAN SECTION AND  
ELEVATION**

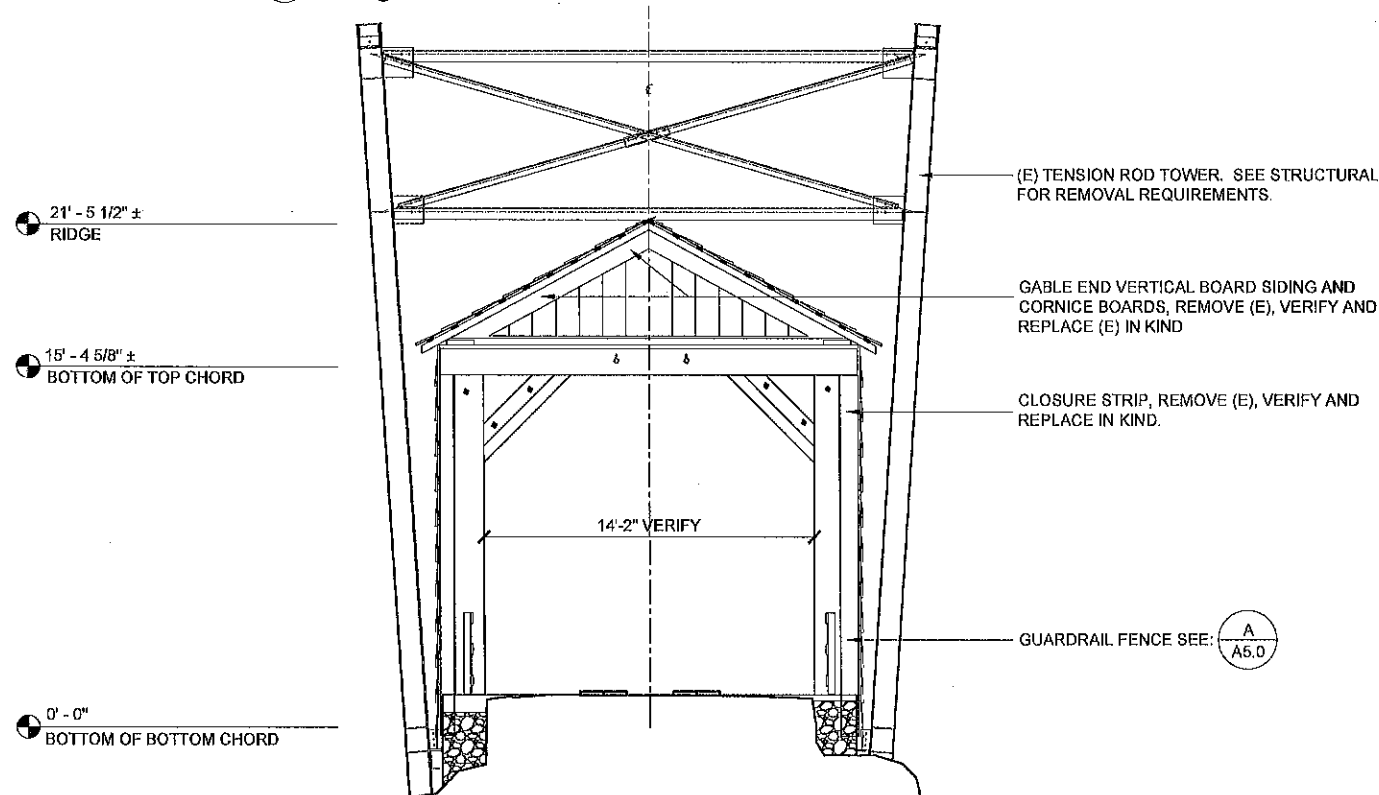
DRAWING NO.  
30419.027

SHEET NO.  
**A3.0**

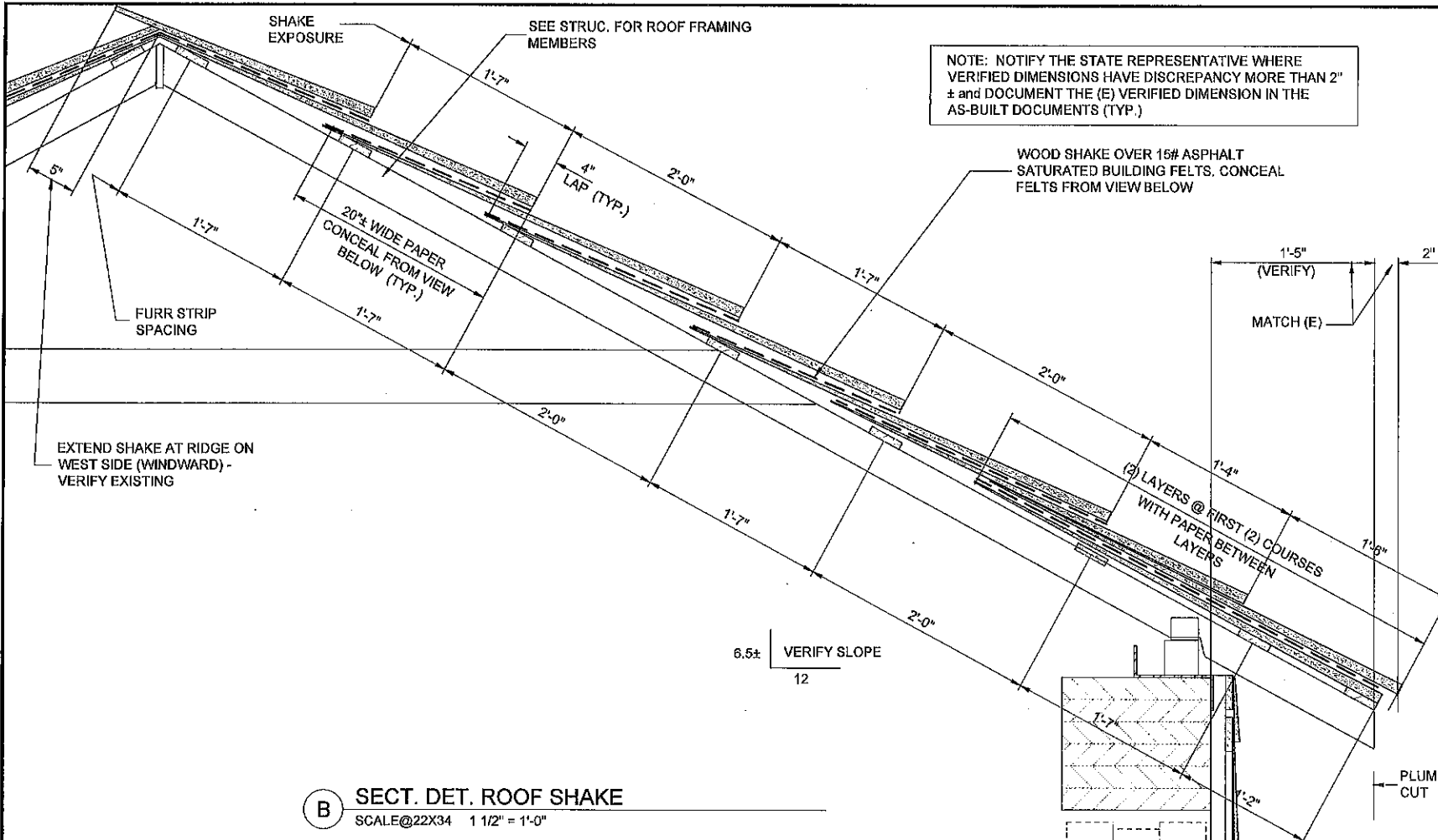
027 OF 029



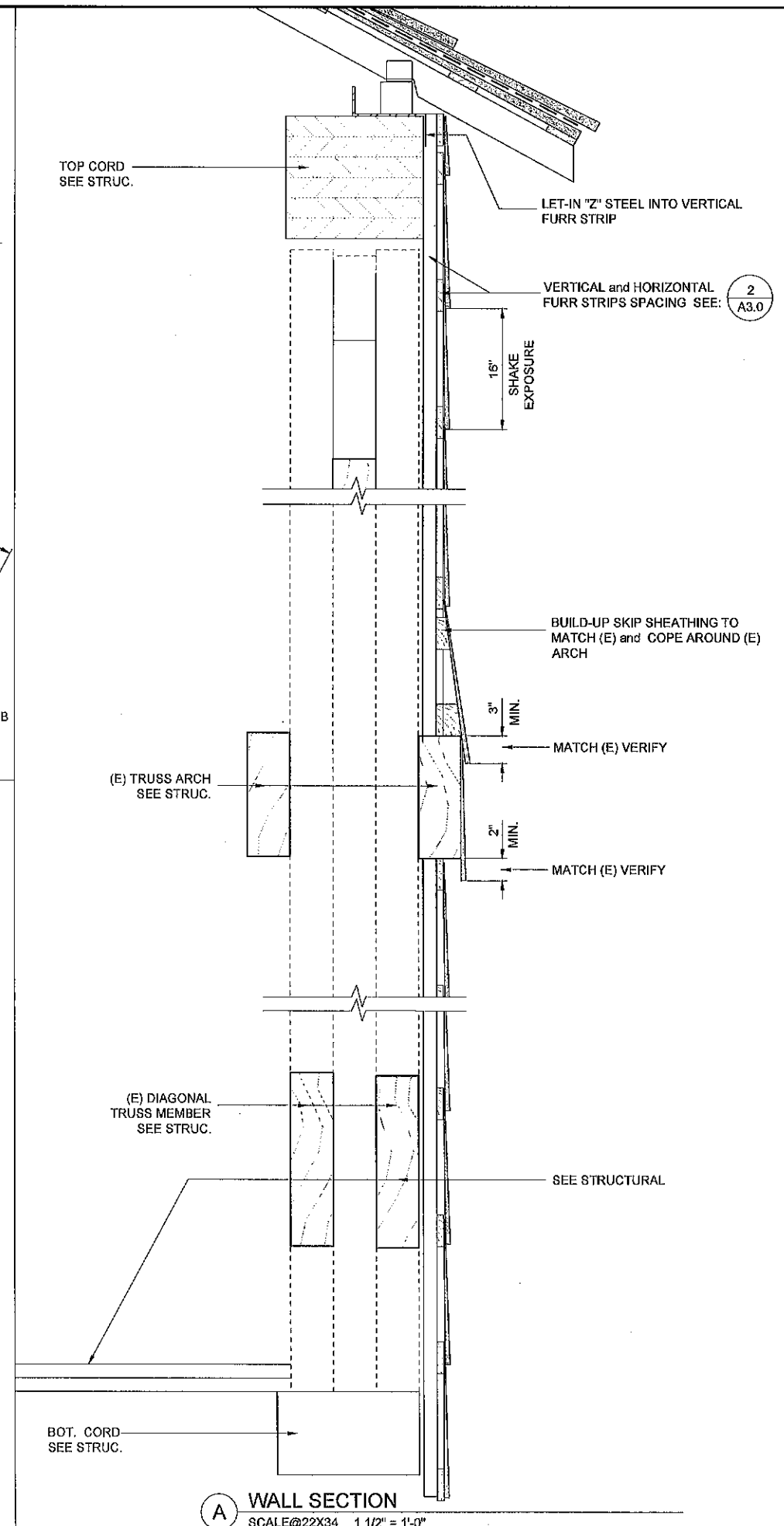
2 EAST ELEVATION - WEST SIMILAR  
SCALE @22X34 3/32" = 1'-0"



3 SOUTH PORTAL ELEVATION  
SCALE @22X34 1/4" = 1'-0"



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



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One Capitol Mall  
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95814-3229

XREF  
STAMP

CALIFORNIA STATE FIRE MARSHAL - APPROVED  
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Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_

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: 12.06.2015

REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
COVERED BRIDGE REHAB

**ARCHITECTURAL DETAILS**

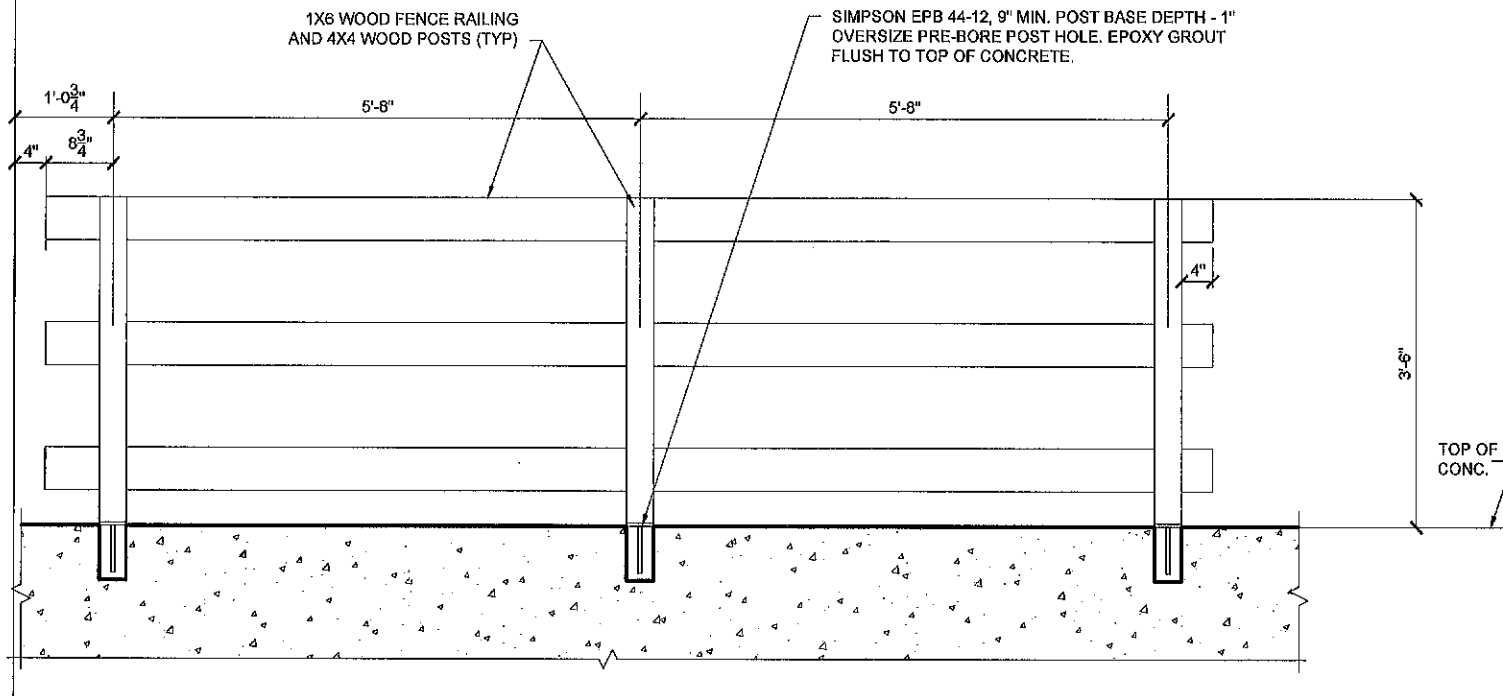
DRAWING NO.  
30419.028

SHEET NO.  
**A4.0**

028 OF 029



FACE OF FINISH OF COVERED BRIDGE



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



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

XREF  
STAMP

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Reviewed by \_\_\_\_\_ Date \_\_\_\_\_  
DPR ACCESS COMPLIANCE REVIEW  
ACCESSIBILITY SECTION  
CERTIFICATION # \_\_\_\_\_  
Reviewed by \_\_\_\_\_ Date \_\_\_\_\_

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

DESIGNED: DESIGNER  
DRAWN: STAFF  
CHECKED: SUPERVISOR  
DATE: 12.08.2015

REVISIONS	DATE

SOUTH YUBA RIVER STATE PARK  
COVERED BRIDGE REHAB

ARCHITECTURAL DETAILS

DRAWING NO.  
30419.029

SHEET NO.  
**A5.0**

029 OF 029

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# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office

FEDERAL BUILDING, 2800 COTTAGE WAY, ROOM W-2605

SACRAMENTO, CA 95825

PHONE: (916)414-6600 FAX: (916)414-6713

Consultation Code: 08ESMF00-2017-SLI-0877

January 23, 2017

Event Code: 08ESMF00-2017-E-01927

Project Name: Bridgeport Covered Bridge Restoration

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

[http://www.nwr.noaa.gov/protected\\_species/species\\_list/species\\_lists.html](http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html)

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2)

of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment





United States Department of Interior  
Fish and Wildlife Service

Project name: Bridgeport Covered Bridge Restoration

## Official Species List

**Provided by:**

Sacramento Fish and Wildlife Office  
FEDERAL BUILDING  
2800 COTTAGE WAY, ROOM W-2605  
SACRAMENTO, CA 95825  
(916) 414-6600

**Consultation Code:** 08ESMF00-2017-SLI-0877

**Event Code:** 08ESMF00-2017-E-01927

**Project Type:** RECREATION CONSTRUCTION / MAINTENANCE

**Project Name:** Bridgeport Covered Bridge Restoration

**Project Description:** Restore existing historic bridge.

**Please Note:** The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior  
Fish and Wildlife Service

Project name: Bridgeport Covered Bridge Restoration

**Project Location Map:**



**Project Coordinates:** MULTIPOLYGON (((-121.19433163874673 39.292913936972695, -121.19423329883607 39.29287714751604, -121.19418977609266 39.29278159662407, -121.19422656554931 39.2926832567134, -121.19432211644128 39.29263973396999, -121.19766951329187 39.292523488214336, -121.19776785320254 39.292560277670994, -121.19781137594595 39.292655828562964, -121.19777458648929 39.29275416847363, -121.19767903559732 39.29279769121704, -121.19433163874673 39.292913936972695)))

**Project Counties:** Nevada, CA



United States Department of Interior  
Fish and Wildlife Service

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## Endangered Species Act Species List

There are a total of 3 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Amphibians	Status	Has Critical Habitat	Condition(s)
California red-legged frog ( <i>Rana draytonii</i> ) Population: Wherever found	Threatened	Final designated	
<b>Fishes</b>			
Delta smelt ( <i>Hypomesus transpacificus</i> ) Population: Wherever found	Threatened	Final designated	
steelhead ( <i>Oncorhynchus (=salmo) mykiss</i> ) Population: Northern California DPS	Threatened	Final designated	



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## **Critical habitats that lie within your project area**

There are no critical habitats within your project area.

CALIFORNIA DEPARTMENT OF  
**FISH and WILDLIFE** *RareFind*

**Query Summary:**

Quad IS (French Corral (3912132))

**CNDDDB Element Query Results**

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
<i>Clarkia biloba</i> ssp. <i>brandegeae</i>	Brandegee's clarkia	Dicots	PDONA05053	89	1	None	None	G4G5T4	S4	4.2	BLM_S-Sensitive	Chaparral, Cismontane woodland, Lower montane coniferous forest
<i>Emys marmorata</i>	western pond turtle	Reptiles	ARAAD02030	1230	2	None	None	G3G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_VU-Vulnerable, USFS_S-Sensitive	Aquatic, Artificial flowing waters, Klamath/North coast flowing waters, Klamath/North coast standing waters, Marsh & swamp, Sacramento/San Joaquin flowing waters, Sacramento/San Joaquin standing waters, South coast flowing waters, South coast standing waters, Wetland
<i>Fritillaria eastwoodiae</i>	Butte County fritillary	Monocots	PMLIL0V060	235	1	None	None	G3Q	S3	3.2	USFS_S-Sensitive	Chaparral, Cismontane woodland, Lower montane coniferous forest, Ultramafic





**NOAA Fisheries Species List Dated January 23, 2017**

Federal Agency: Federal Highway Admin-California Division

Federal Agency Addr: Non-Federal Agency Representative: California Department of Transportation

Non-Federal Agency Addr: 703 B Street, Marysville Ca 95901

Project Title [Bridgeport Covered Bridge Repair](#)

POC: Brooks Taylor, [brooks\\_taylor@dot.ca.gov](mailto:brooks_taylor@dot.ca.gov)

Quad Name **French Corral**

Quad Number **39121-C2**

**ESA Anadromous Fish**

CVSR Chinook Salmon ESU (T) - **X**

CCV Steelhead DPS (T) - **X**

**ESA Anadromous Fish Critical Habitat**

**ESA Marine Invertebrates**

**ESA Marine Invertebrates Critical Habitat**

**ESA Sea Turtles**

**Essential Fish Habitat**

Chinook Salmon EFH - **X**

## Inventory of Rare and Endangered Plants

## Plant List

7 matches found. [Click on scientific name for details](#)

### Search Criteria

Found in Quad **3912132**

 [Modify Search Criteria](#)
 [Export to Excel](#)
 [Modify Columns](#)
 [Modify Sort](#)
 [Display Photos](#)

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
<a href="#">Allium sanbornii var. sanbornii</a>	Sanborn's onion	Alliaceae	perennial bulbiferous herb	May-Sep	4.2	S4?	G3T4?
<a href="#">Brodiaea sierrae</a>	Sierra foothills brodiaea	Themidaceae	perennial bulbiferous herb	May-Aug	4.3	S3	G3
<a href="#">Clarkia biloba ssp. brandegeae</a>	Brandegee's clarkia	Onagraceae	annual herb	May-Jul	4.2	S4	G4G5T4
<a href="#">Erigeron petrophilus var. sierrensis</a>	northern Sierra daisy	Asteraceae	perennial rhizomatous herb	Jun-Oct	4.3	S4	G4T4
<a href="#">Fritillaria eastwoodiae</a>	Butte County fritillary	Liliaceae	perennial bulbiferous herb	Mar-Jun	3.2	S3	G3Q
<a href="#">Lewisia cantelovii</a>	Cantelow's lewisia	Montiaceae	perennial herb	May-Oct	1B.2	S3	G3
<a href="#">Lilium humboldtii ssp. humboldtii</a>	Humboldt lily	Liliaceae	perennial bulbiferous herb	May-Jul(Aug)	4.2	S3	G4T3

### Suggested Citation

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