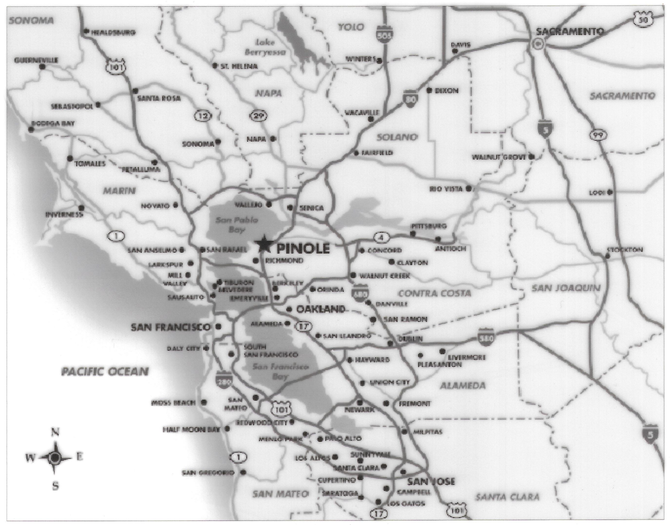
IMPROVEMENT PLANS for the

PRUNE STREET
PEDESTRIAN BRIDGE REPLACEMENT

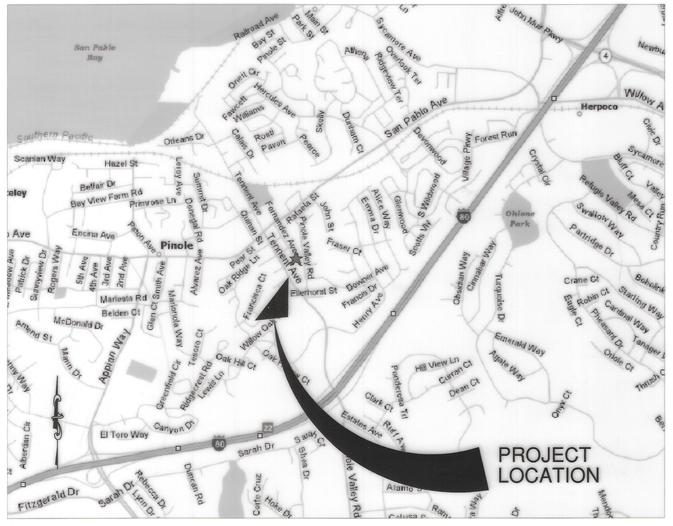
CITY OF PINOLE, CALIFORNIA

2131 Pear Street (510) 724-9014 fax (510) 724-4921

crossing at
PRUNE STREET / FERNANDEZ STREET
and PINOLE VALLEY ROAD



LOCATION MAP
NTS



VICINITY MAP
NTS

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THESE PLANS, THE CITY OF PINOLE GENERAL CONDITIONS, THE GENERAL CONDITIONS IN THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), LATEST EDITION, AND THE SPECIAL PROVISIONS.

2. ALL EXISTING UTILITIES AND IMPROVEMENTS ARE SHOWN STRICTLY FOR THE CONVENIENCE OF THE CONTRACTOR. THEIR LOCATIONS AND DEPTHS ARE APPROXIMATE ONLY, AND THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES OR IMPROVEMENTS THAT MAY INTERFERE WITH HIS WORK (SHOWN AND NOT SHOWN).

3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN TRAFFIC CONTROL ON ALL STREETS, AND ACCESS TO AND FROM EACH ADJOINING PARCEL DURING CONSTRUCTION.

4. THE CONTRACTOR SHALL NOTIFY USA NOT LESS THAN 2 WORKING DAYS PRIOR TO STARTING ANY EXCAVATION NEAR UNDERGROUND UTILITIES.
UNDERGROUND SERVICE ALERT (USA) 1–800–642–2444.

5. THE CONTRACTOR SHALL ISOLATE THE WORK AREAS WITH TEMPORARY FENCING. THE PEDESTRIAN PATHS SHALL REMAIN OPEN EXCEPT WHEN THE CONTRACTOR IS WORKING.

CONTACTS

CONTRA COSTA COUNTY FLOOD CONTROL AND
WATER CONSERVATION DISTRICT
255 GLACIER DRIVE
MARTINEZ, CA 94553
(925) 313–2000

BASIS OF ELEVATION

USGS BENCH MARK: A–130, DATED 1932 LOCATED AT THE OLD BANK BUILDING DOWNTOWN PINOLE ON SAN PABLO AVENUE
ELEV=20.883

BASIS OF BEARINGS

CONTRA COSTA COUNTY FLOOD CONTROL R/W POINTS 6675 TO 6680. BASED UPON DRAWING No. ED–450 SHEET 3 OF 5.

ABBREVIATIONS

AC	ASPHALT CONCRETE
AB	AGGREGATE BASE
BB	BEGIN BRIDGE
CIDH	CAST IN DRILLED HOLE
DIA	DIAMETER
EB	END BRIDGE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
OG	ORIGINAL GROUND

APPROVED: 9/22/06

DEAN E. ALLISON, R.C.E. 36054 EXP. 6/30/2008 DATE
DIRECTOR OF PUBLIC WORKS

SHEET INDEX

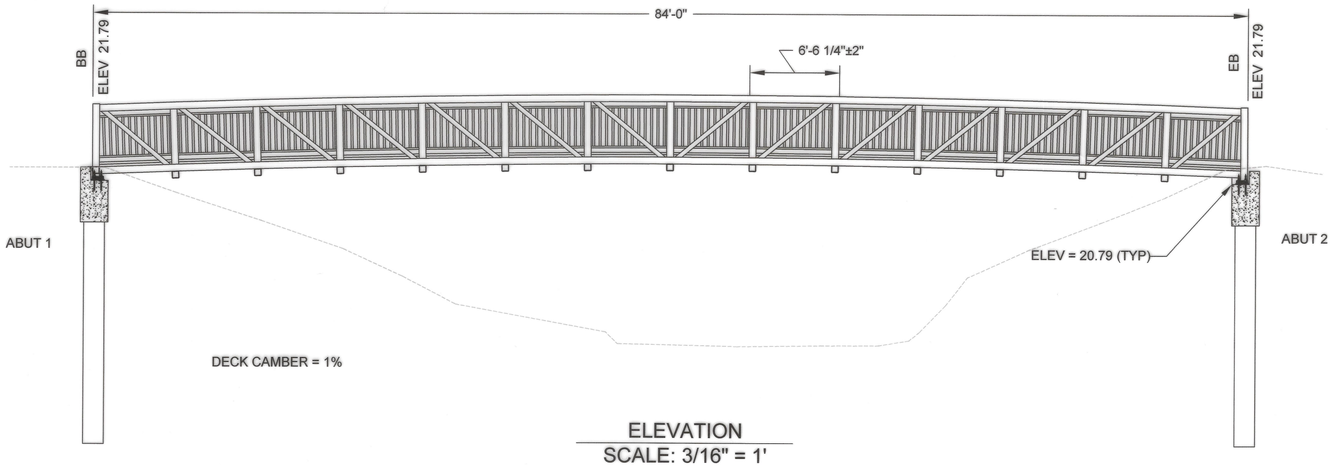
DATE	REVISION	PREPARED BY	DATE
		DRAWN: MEH & GMG	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

PRUNE STREET
PEDESTRIAN BRIDGE REPLACEMENT
TITLE SHEET
COUNTY OF CONTRA COSTA CALIFORNIA
CITY OF PINOLE

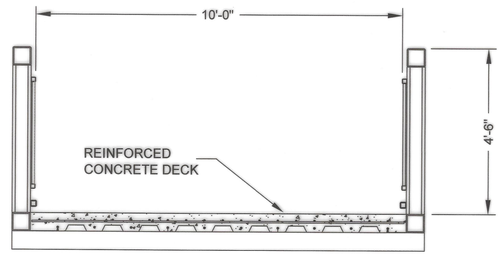
WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 229-9488

SCALE
HORIZONTAL: NONE
VERTICAL: NONE
INCHES 0 0,5 1 2
MILLIMETERS 0 10 20 30 40 50

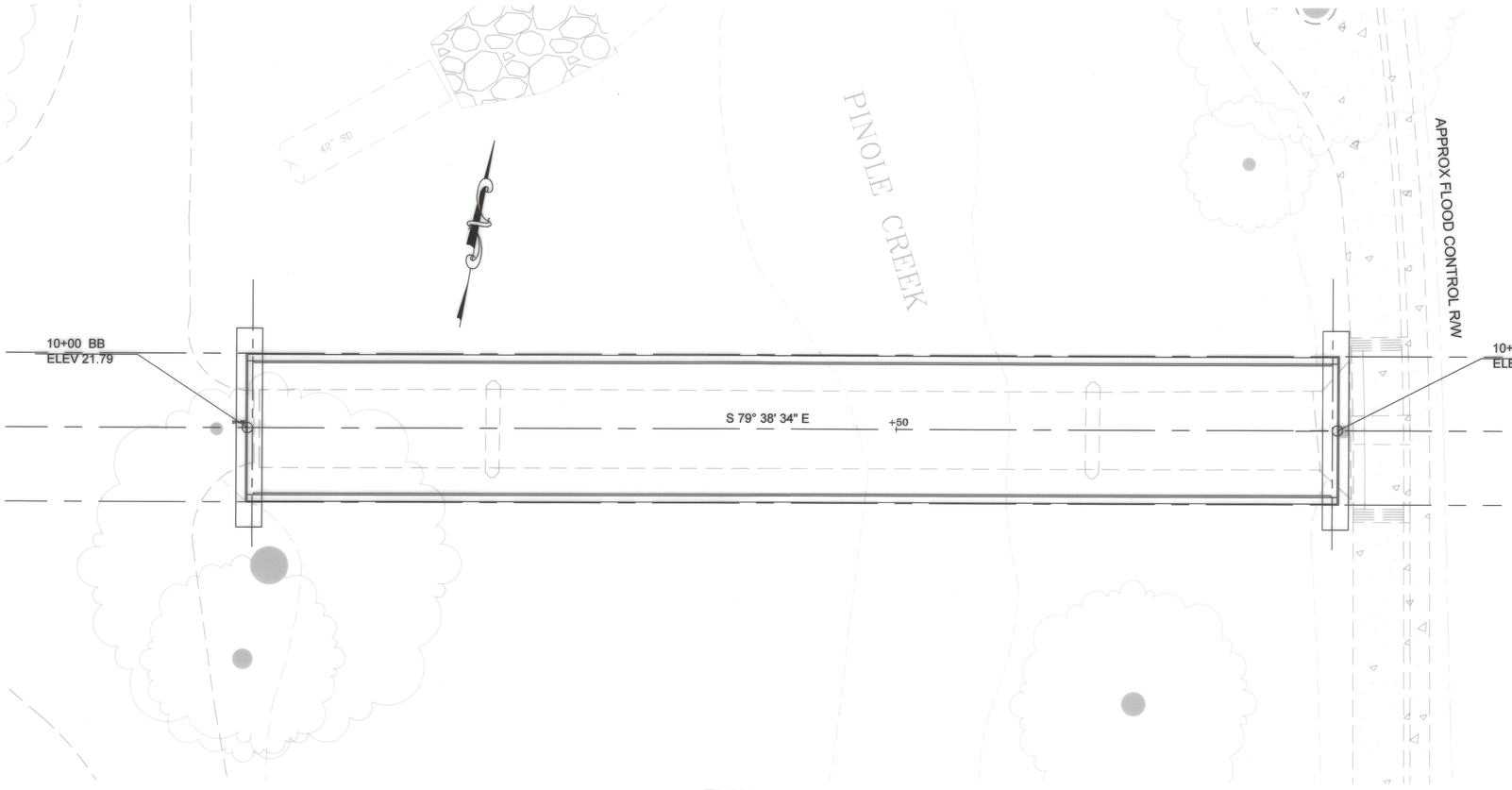
TITLE SHEET
SHEET 1 OF 11



ELEVATION
SCALE: 3/16" = 1'



TYPICAL SECTION
SCALE: 1/2" = 1'



PLAN
SCALE: 3/16" = 1'

NOTES:

RECESSED LIGHTING SHALL BE INSTALLED IN THE BRIDGE RAILING TO ILLUMINATE THE BRIDGE DECK. LIGHTING SHALL BE APPROPRIATE FOR OUTDOOR, COMMERCIAL USE AND INCORPORATE VANDAL–PROOF EQUIPMENT. THE CONTRACTOR SHALL SUBMIT CUT SHEETS FOR THE PROPOSED RAIL LIGHTING TO THE ENGINEER FOR REVIEW AND APPROVAL.

CONTRACTOR SHALL FURNISH AND INSTALL A PRE–MANUFACTURED STEEL PRATT TRUSS PEDESTRIAN BRIDGE WITH CONCRETE DECK ON CONCRETE ABUTMENTS SUPPORTED BY CIDH PILES. THE CROSS SECTION AND ELEVATION OF THE BRIDGE SHALL MATCH THAT SHOWN WITHIN THE TOLERANCES SPECIFIED.

DIMENSIONS SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS WITH THE BRIDGE MANUFACTURER AND SUBMIT DETAILED SHOP PLANS WITH CALCULATIONS FOR REVIEW AND APPROVAL BY THE ENGINEER. ALL PLANS AND CALCULATIONS SUBMITTED SHALL BE STAMPED AND SIGNED BY A CIVIL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.

BASIS OF ELEVATION

USGS BENCH MARK: A–130, DATED 1932 LOCATED AT THE OLD BANK BUILDING DOWNTOWN PINOLE ON SAN PABLO AVENUE ELEV=20.883

BASIS OF BEARINGS

CONTRA COSTA COUNTY FLOOD CONTROL R/W POINTS 6675 TO 6680. BASED UPON DRAWING No. ED–450 SHEET 3 OF 5.

1 0 1 2 3

DATE | REVISION | PREPARED BY | DATE
DRAWN: JRB 7/27/06
DESIGNED: GMG
CHECKED: MFA
SURVEY FILE:

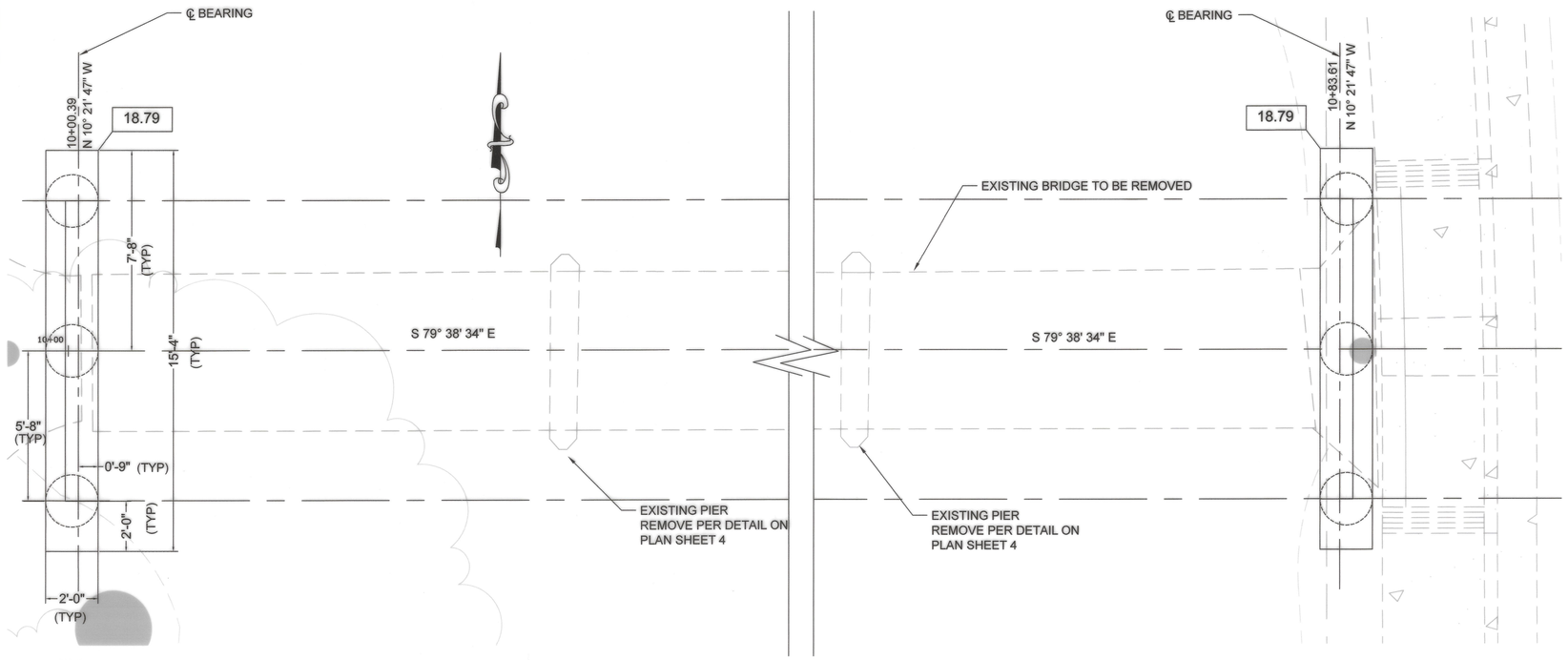
PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT
BRIDGE GENERAL PLAN

CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 229-9488

SCALE
HORIZONTAL: NONE
VERTICAL: NONE
INCHES 0 0,5 2
MILLIMETERS 0 10 20 30 40 50

GENERAL PLAN



BRIDGE FOUNDATION
SCALE: 3/8" = 1'

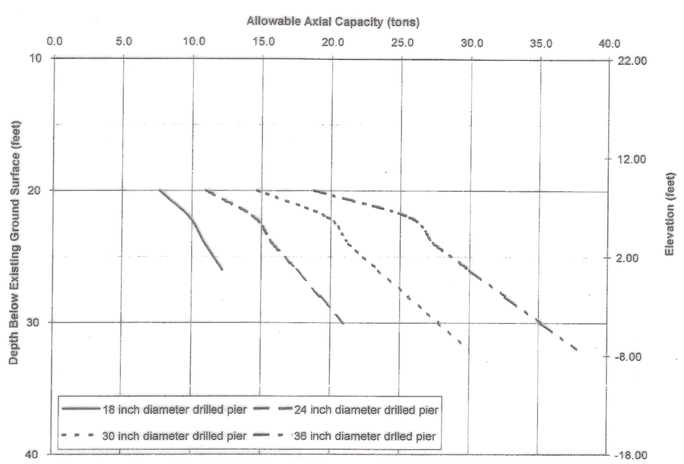
NOTES:

DIMENSIONS SHOWN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS WITH MANUFACTURER AND SUBMIT DETAILED FOUNDATION DESIGN CALCULATIONS FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO CONSTRUCTING ABUTMENTS.

ABUTMENT PLACEMENT MAY VARY SLIGHTLY FROM THAT SHOWN ABOVE, BUT THE NEW ABUTMENTS MAY BE NO CLOSER TO THE CREEK THAN THE EXISTING ABUTMENTS ARE CURRENTLY. THE CONTRACTOR SHALL SUBMIT FINAL ABUTMENT PLACEMENT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTING ABUTMENTS.

ABUTMENTS SHALL BE SUPPORTED ON CIDH PILES. CONTRACTOR SHALL VERIFY THE ACTUAL NUMBER OF CIDH PILES REQUIRED BASED ON FINAL APPROVED GEOMETRY OF THE BRIDGE. PILE CAPACITY SHALL BE BASED ON THE PILE CAPACITY CHART SHOWN ON THIS SHEET.

Figure 1: Allowable Axial Capacity versus Depth of Drilled Pier



LEGEND:

Denotes Bottom Of Footing Elevation.

GENERAL NOTES
LOAD FACTOR DESIGN

DESIGN: CALTRANS BRIDGE DESIGN SPECIFICATIONS (1983 AASHTO with interims and Revisions by CALTRANS)

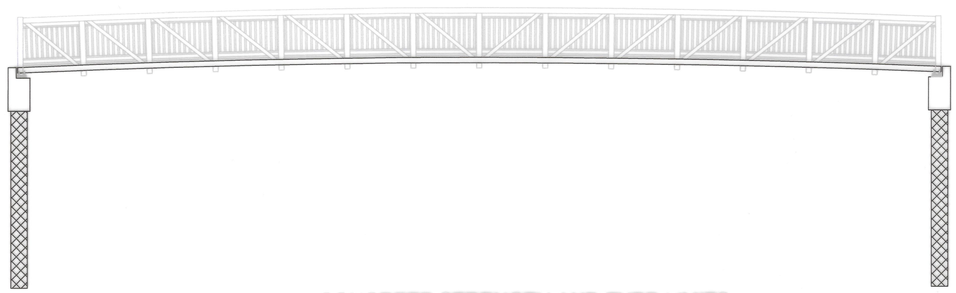
DEAD LOAD: To be determined by the manufacturer.

LIVE LOADING: 85 PSF Pedestrian Live Load

CBC SEISMIC DESIGN PARAMETERS:
SEISMIC SOURCE TYPE: A
NEAR SOURCE FACTOR: Na=1.2, Nv=1.6
SEISMIC ZONE: 4
SEISMIC FACTOR: Z=0.4
SOIL PROFILE TYPE: S
SEISMIC RESPONSE COEFFICIENT: Ca=0.43, Cv=1.5

REINFORCED CONCRETE:
fy = 60,000 psi
f'c = 3,250 psi (Unless Otherwise Noticed)
n = 8

CIDH PILE: DIA = 24"
SPECIFIED TIP ELEVATION = 5'



CONCRETE STRENGTH AND TYPE LIMITS
NOT TO SCALE

STRUCTURAL CONCRETE BRIDGE f'c=3,250 PSI

CIDH PILE

1 0 1 2 3

DATE | REVISION | PREPARED BY
7/27/06 | | DRAWN: GMG
| | DESIGNED: GMG
| | CHECKED: MFA
| | SURVEY FILE:

PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT FOUNDATION PLAN

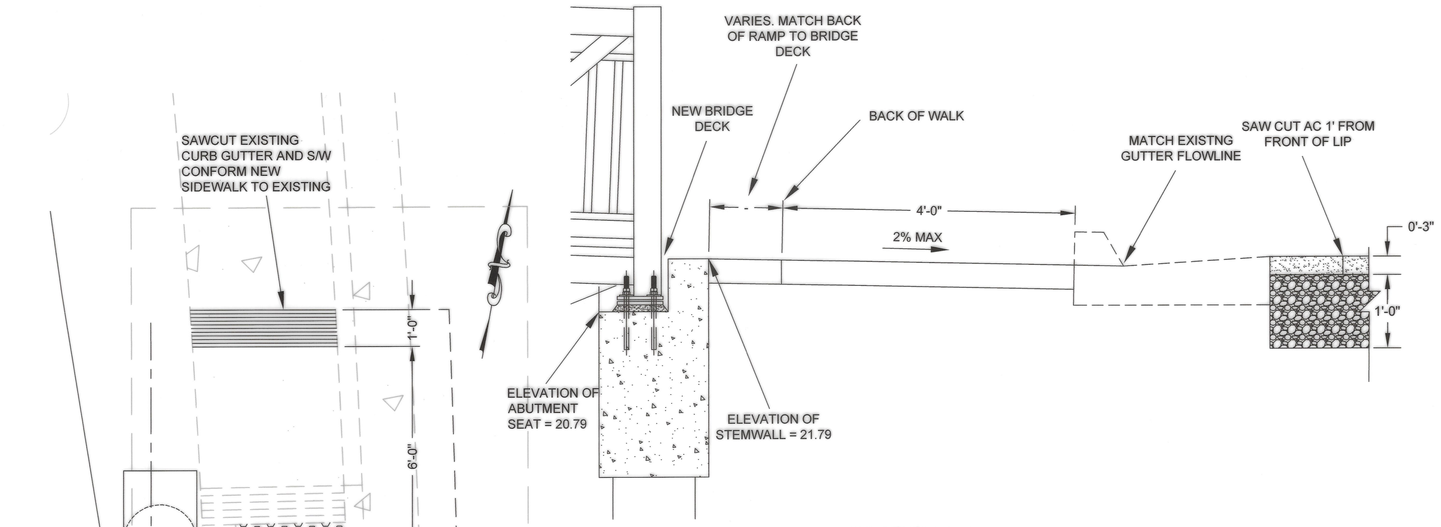
CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 229-9488

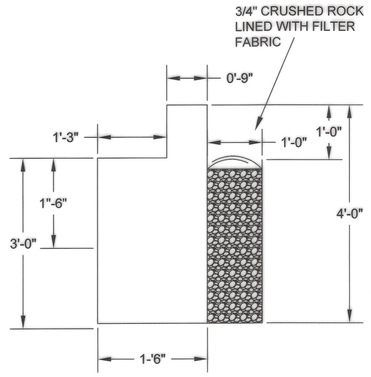
SCALE
HORIZONTAL: AS SHOWN
VERTICAL: NONE
INCHES 0 0.5 2
MILLIMETERS 0 10 20 30 40 50

FOUNDATION

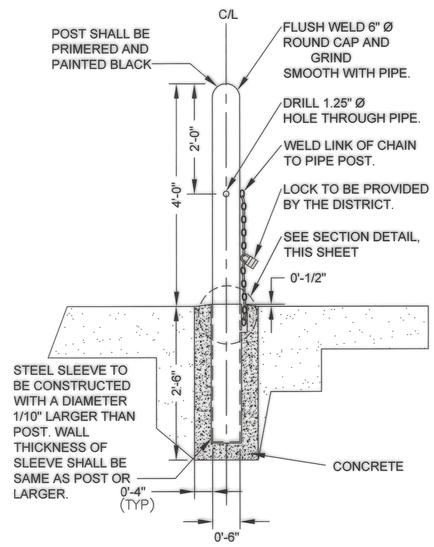
SHEET 3 OF 11



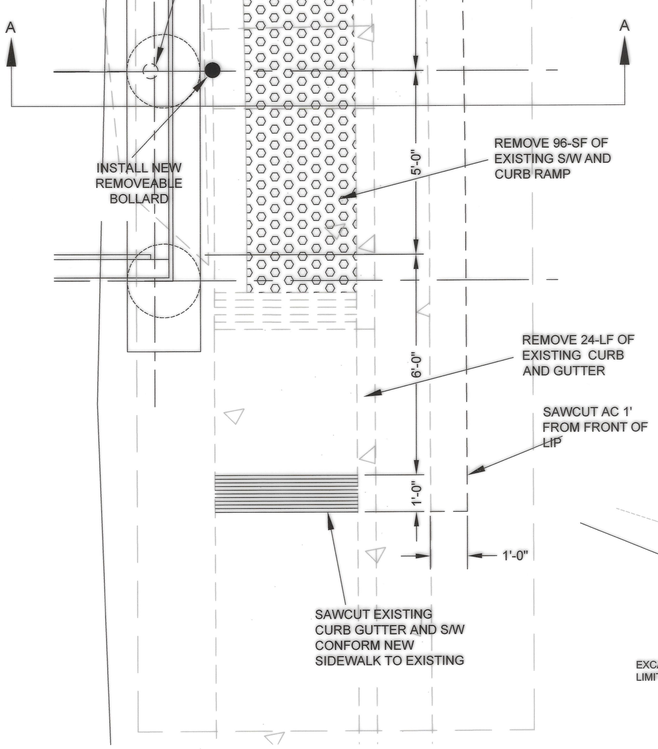
SECTION A-A
1" = 1'



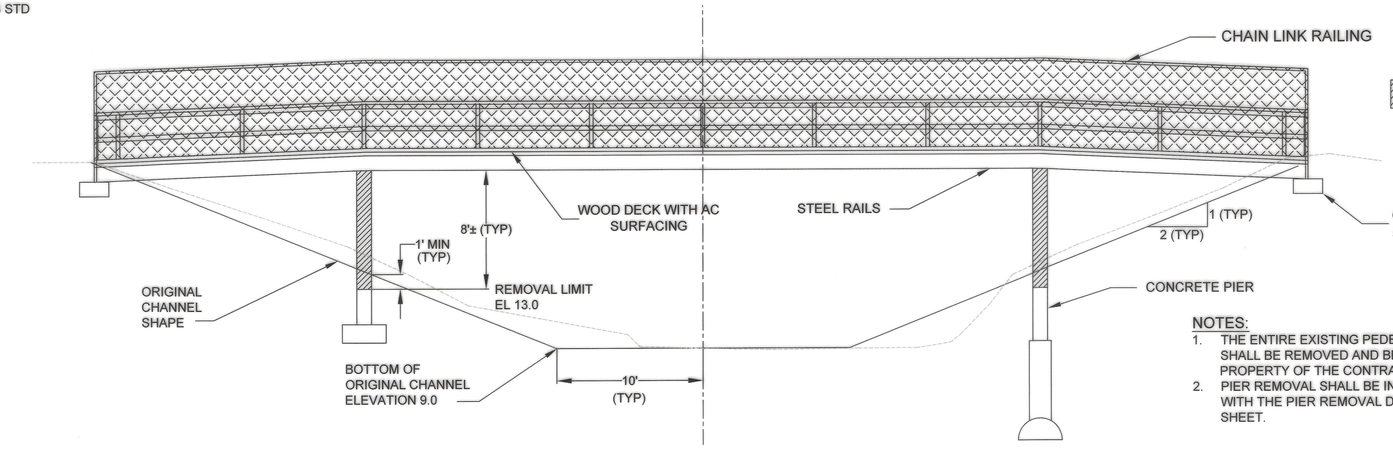
ABUTMENT SECTION
ABUTMENT DIMENSIONS ARE APPROXIMATE, FINAL ABUTMENT DESIGN TO BE SUBMITTED BY CONTRACTOR WITH BRIDGE SHOP PLANS.



REMOVEABLE BOLLARD DETAIL
3/4" = 1'

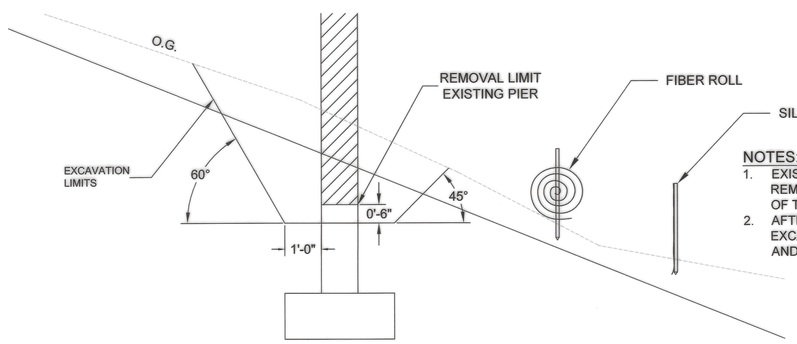


NEW H/C RAMP DETAIL
EAST END OF BRIDGE



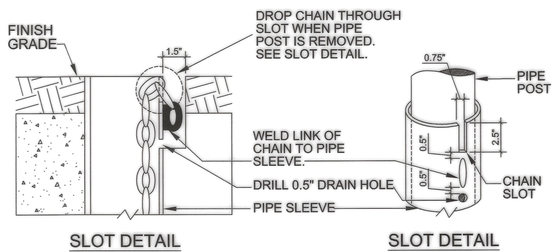
NOTES:
1. THE ENTIRE EXISTING PEDESTRIAN BRIDGE SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
2. PIER REMOVAL SHALL BE IN ACCORDANCE WITH THE PIER REMOVAL DETAIL ON THIS SHEET.

BRIDGE REMOVAL DETAIL
1" = 5'



NOTES:
1. EXISTING PIERS SHALL BE SAWCUT AND REMOVED 1-FT MINIMUM BELOW THE SHAPE OF THE ORIGINAL CHANNEL.
2. AFTER REMOVAL OF PIER, BACKFILL EXCAVATION TO 90% RELATIVE COMPACTION AND MATCH EXISTING SLOPE.

PIER REMOVAL DETAIL
1" = 2'



REMOVEABLE METAL BOLLARD SECTION DETAIL
NTS

DATE	REVISION	PREPARED BY	DATE
		DRAWN: JRB	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

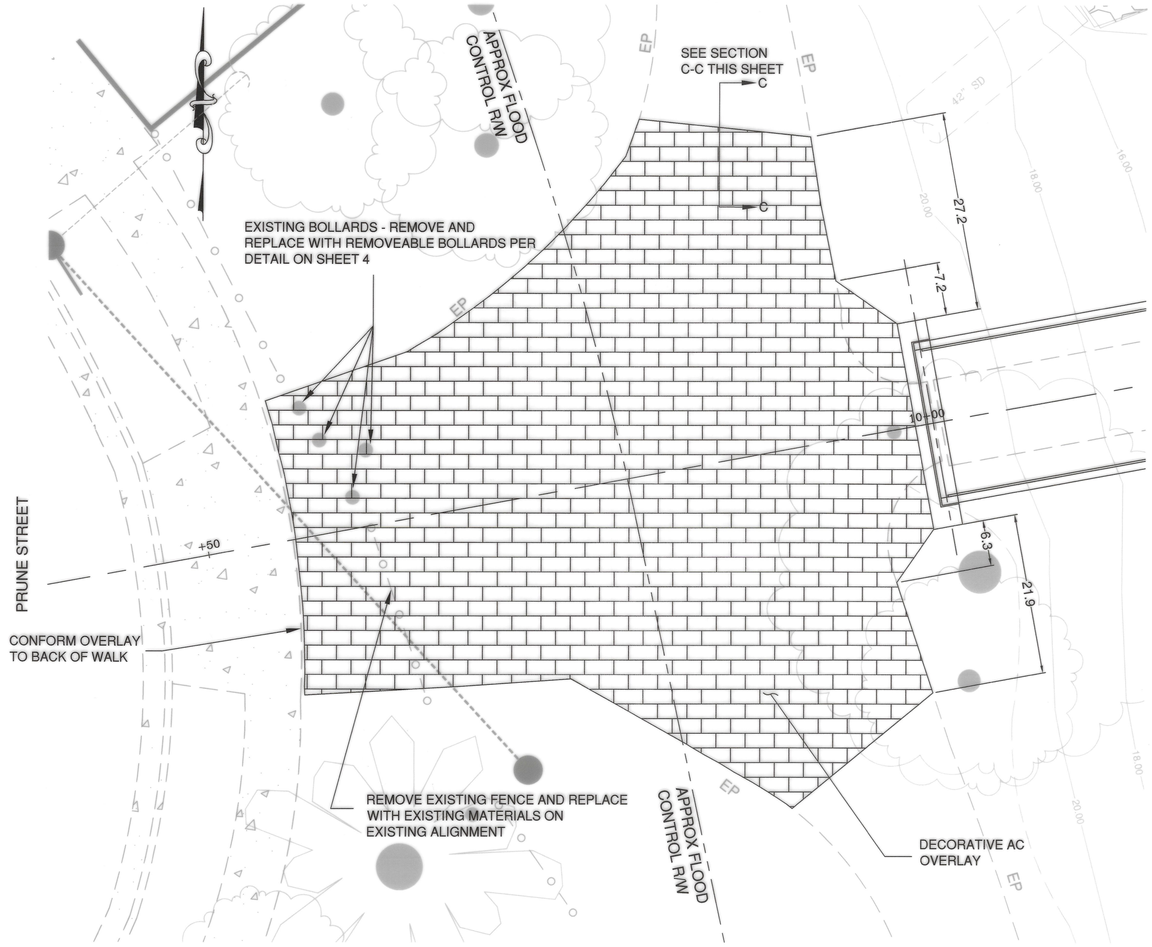
PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT
DETAIL SHEET

CITY OF PINOLE — COUNTY OF CONTRA COSTA — CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 224-4900
fax (530) 229-9488

SCALE
HORIZONTAL: AS SHOWN
VERTICAL: NONE
INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

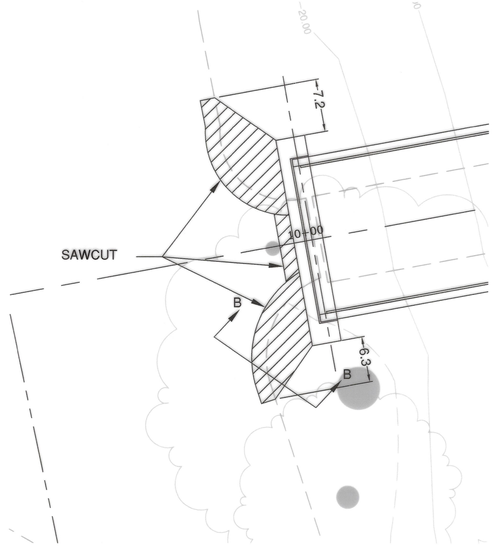
DETAIL SHEET
SHEET 4 OF 11



(1) STAMPED AC OVERLAY LIMITS
SCALE: 1" = 5'

NOTES:

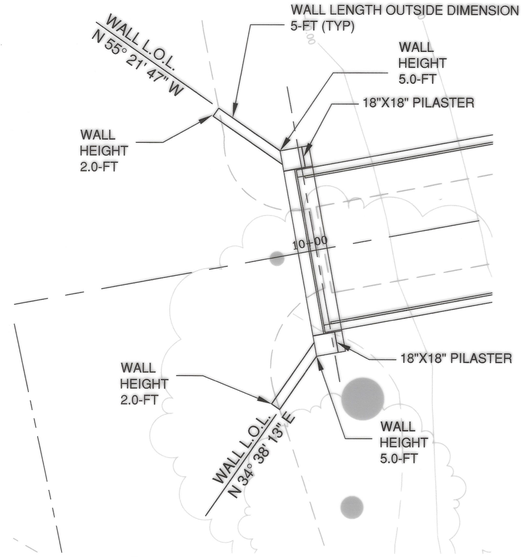
1. OVERLAY EXISTING AC PATHWAY WITH 0.10' AC OVERLAY.
2. COLOR AC OVERLAY WITH A BROWN EARTH TONE. CONTRACTOR SHALL SUBMIT COLOR SAMPLE TO THE ENGINEER FOR APPROVAL.
3. AC OVERLAY SHALL BE STAMPED WITH A BRICK PATTERN. PATTERN TO BE USED SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
4. CONFORM NEW AC OVERLAY TO EXISTING AC PATH AND BACK OF SIDEWALK WITH A 5-FT GRIND PER SECTION C-C ON THIS SHEET.
5. CONTRACTOR TO REFERENCE LOCATION OF EXISTING CHAINLINK FENCE FOR REPLACEMENT AFTER CONSTRUCTION.



(2) NEW AC & BASE LIMITS
SCALE: 1" = 5'

NOTES:

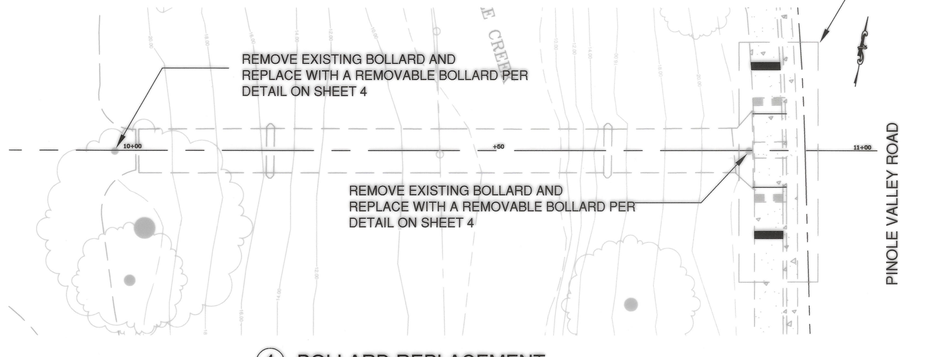
1. NEW STRUCTURAL SECTION SHALL BE 2" AC OVER 9" AGGREGATE BASE.
2. SAWCUT EXISTING AC 1-FT INSIDE EP.
3. SAWCUT EXISTING AC 1-FT OUTSIDE NEW ABUTMENT.
4. MATCH GRADE OF NEW AC TO GRADE OF EXISTING AC PATHWAY. PLACE STAMPED AC OVERLAY OVER BOTH EXISTING AND NEW AC.



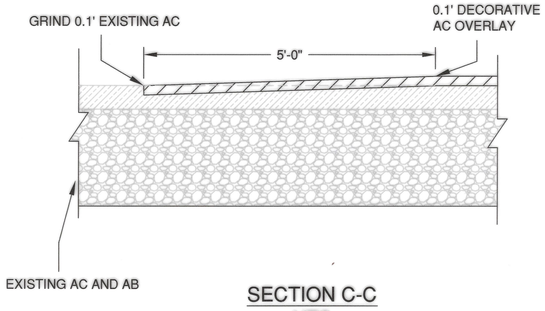
(3) ROCK WALL LAYOUT
SCALE: 1" = 5'

NOTES:

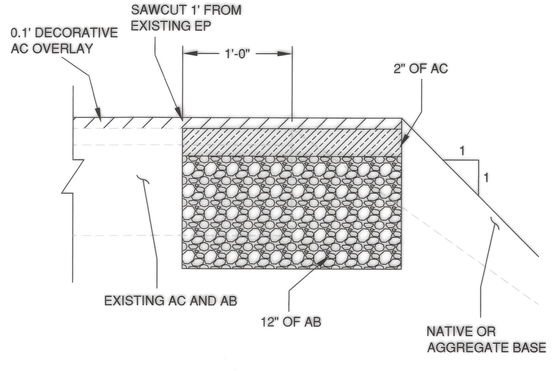
1. 8-INCH THICK ROCK WALLS AND PILASTERS SHALL BE CONSTRUCTED OF LEDGESTONE.
2. 8-INCH THICK ROCK WALLS TIE INTO 5-FT PILASTERS AND TAPER TO 2-FT HEIGHT AND ARE 5-FT IN LENGTH.
3. DECORATIVE STREETLIGHTS SHALL BE MOUNTED ON TOP OF PILASTERS.



(4) BOLLARD REPLACEMENT
SCALE: 1" = 10'



SECTION C-C
NTS



SECTION B-B
NTS

1 0 1 2 3

DATE	REVISION	PREPARED BY	DATE
		DRAWN: GMG	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT
SITE PLAN
CITY OF PINOLE — COUNTY OF CONTRA COSTA — CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 229-0488

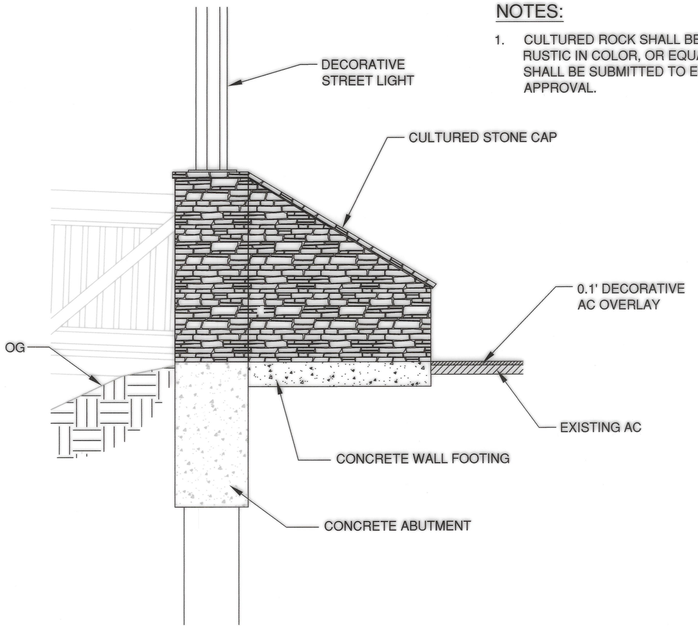
SCALE

HORIZONTAL: NONE
VERTICAL: NONE

INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

SITE PLAN

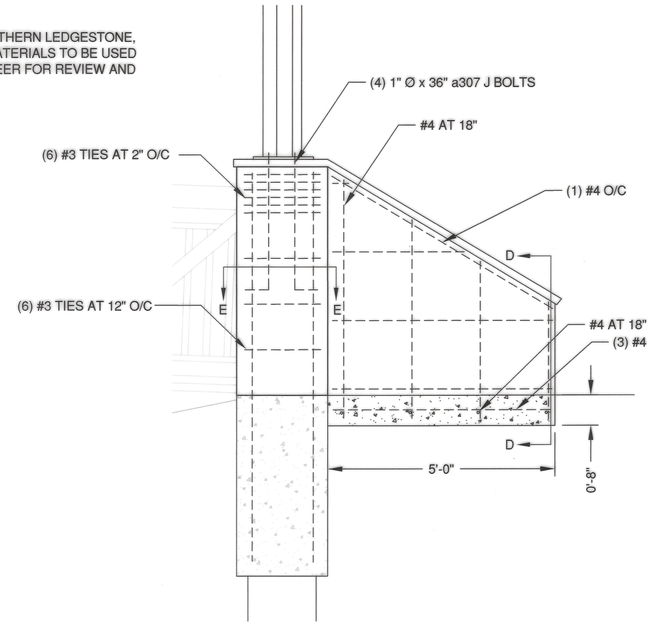
SHEET 5 OF 11



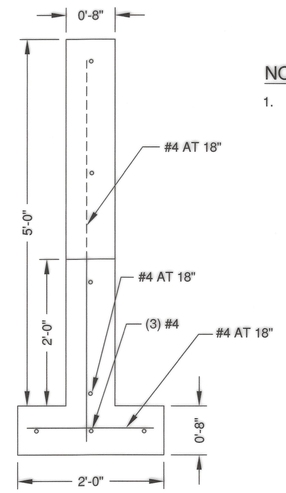
ROCK PILASTER PROFILE VIEW
NTS

NOTES:

1. CULTURED ROCK SHALL BE SOUTHERN LEDGESTONE, RUSTIC IN COLOR, OR EQUAL. MATERIALS TO BE USED SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND APPROVAL.



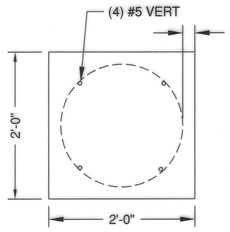
ROCK WALL PROFILE VIEW
NTS



ROCK WALL SECTION D-D
SCALE: 1" = 1'

NOTES:

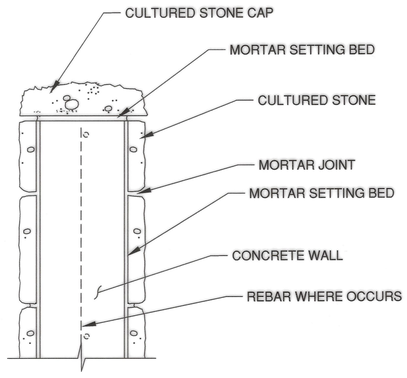
1. DECORATIVE ROCK NOT SHOWN FOR CLARITY - SEE CULTURED ROCK DETAIL



SECTION E-E
SCALE: 1" = 1'

NOTES:

1. DECORATIVE ROCK NOT SHOWN FOR CLARITY - SEE CULTURED ROCK DETAIL



CULTURED ROCK DETAIL
NTS

DATE	REVISION	PREPARED BY	DATE
		DRAWN: JRB	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT
SITE DETAILS

CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 229-0488

GREGORY M. FOREMAN
No. 42176
Exp. 03-31-08
CIVIL
STATE OF CALIFORNIA

SCALE

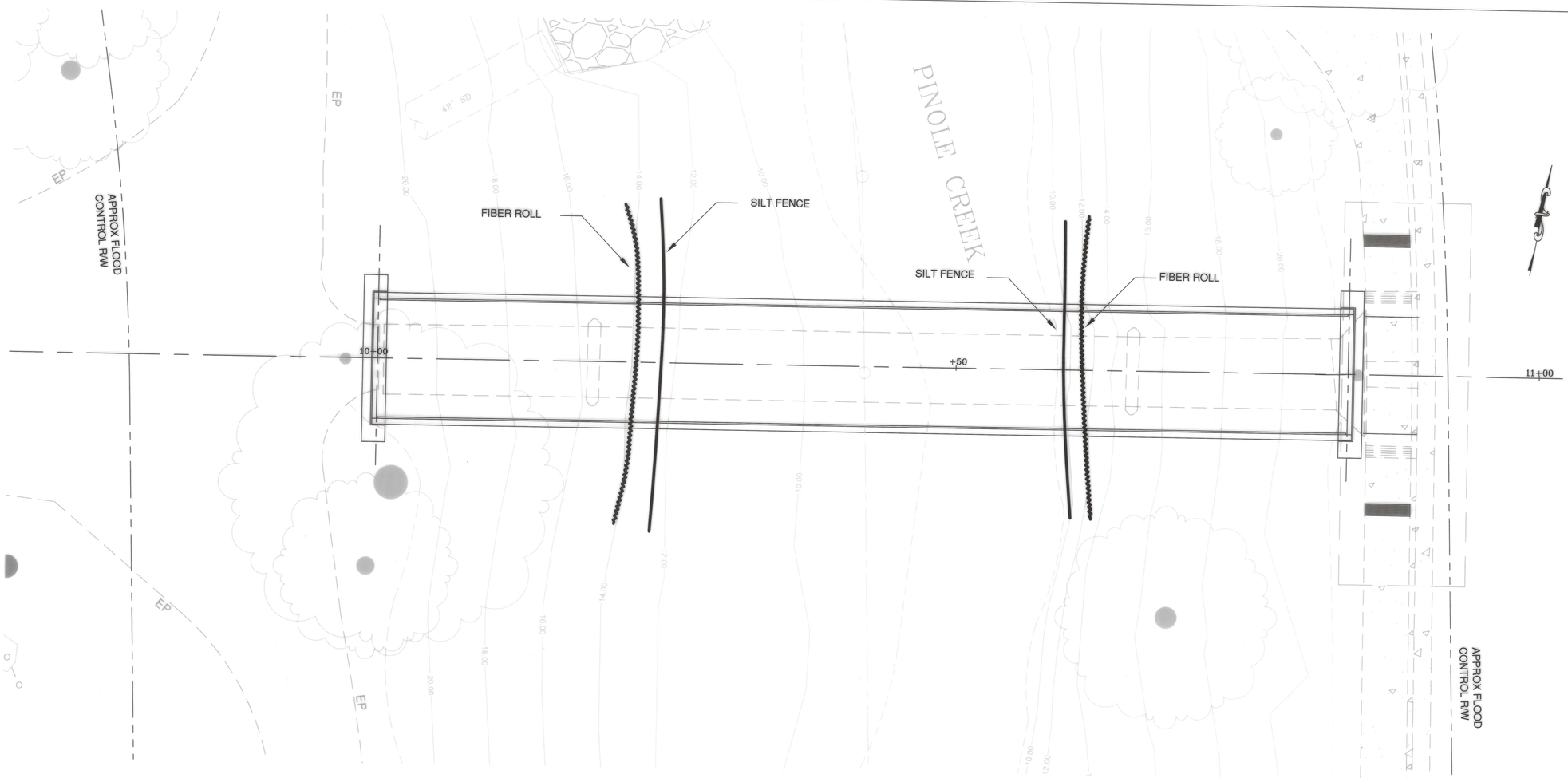
HORIZONTAL: NONE
VERTICAL: NONE

INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

1 0 1 2 3

SITE DETAILS

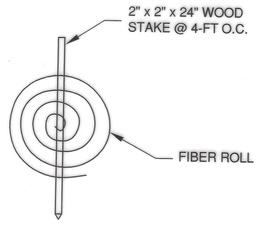
SHEET 6 OF 11



EROSION CONTROL PLAN
SCALE: 1" = 5'

NOTES:

1. MATERIAL SHALL NOT BE ALLOWED TO ENTER THE CREEK.
2. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT NO MATERIAL ENTERS THE CREEK. IF ADDITIONAL EROSION CONTROL MEASURES ARE REQUIRED, THE CONTRACTOR SHALL IMPLEMENT THE NECESSARY MEASURES.
3. CONTRACTOR SHALL HAVE EROSION CONTROL MEASURES IN PLACE PRIOR TO PERFORMING ANY WORK THAT MAY DISTURB THE EXISTING GROUND.
4. THE CONTRACTOR SHALL SUBMIT A DETAILED DEWATERING PLAN FOR DEWATERING THE C.I.D.H. PILES FOR THE ENGINEER TO REVIEW AND APPROVE PRIOR TO THE START OF THE EXCAVATION FOR THE C.I.D.H. PILES.
5. ALL DISTURBED AREAS SHALL BE HYDROSEEDED IN ACCORDANCE WITH THE SPECIAL PROVISIONS.



FIBER ROLL DETAIL
NTS

DATE	REVISION	PREPARED BY	DATE
		DRAWN: GMG	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT
EROSION PLAN

CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 243-8488

REGISTERED PROFESSIONAL ENGINEER
GENE M. GIBSON
No. 42176
Exp. 03-31-08
CIVIL
STATE OF CALIFORNIA

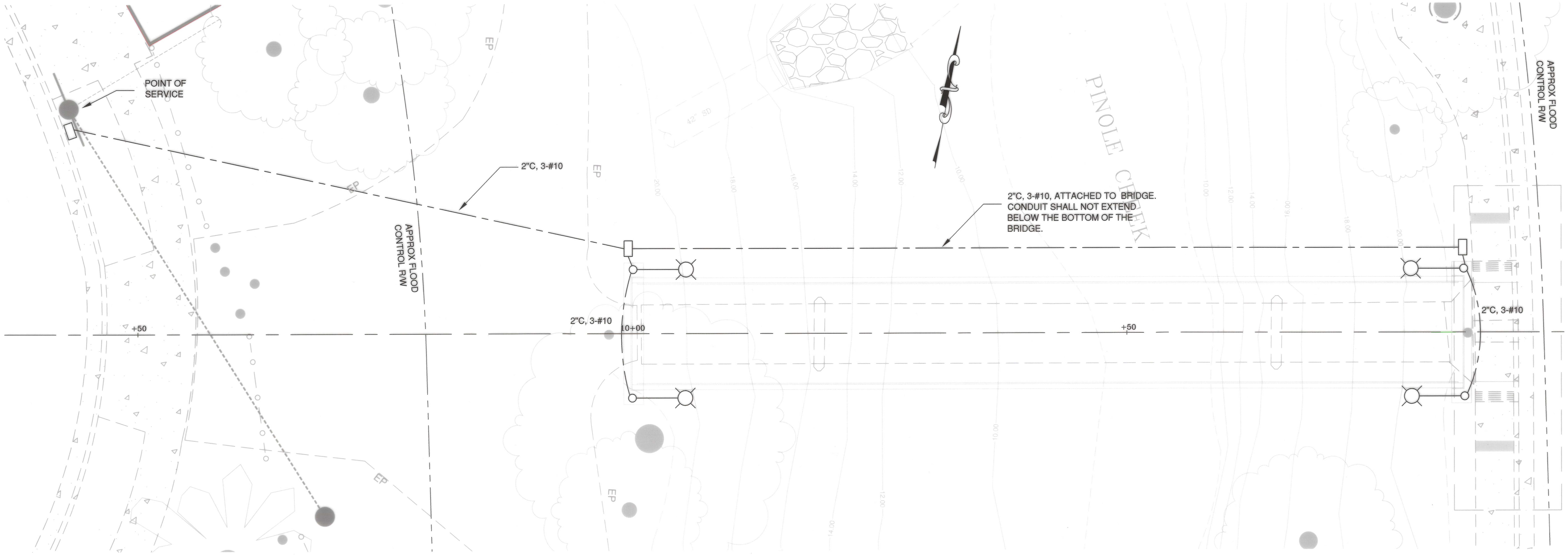
SCALE

HORIZONTAL: NONE
VERTICAL: NONE

INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

1 0 1 2 3

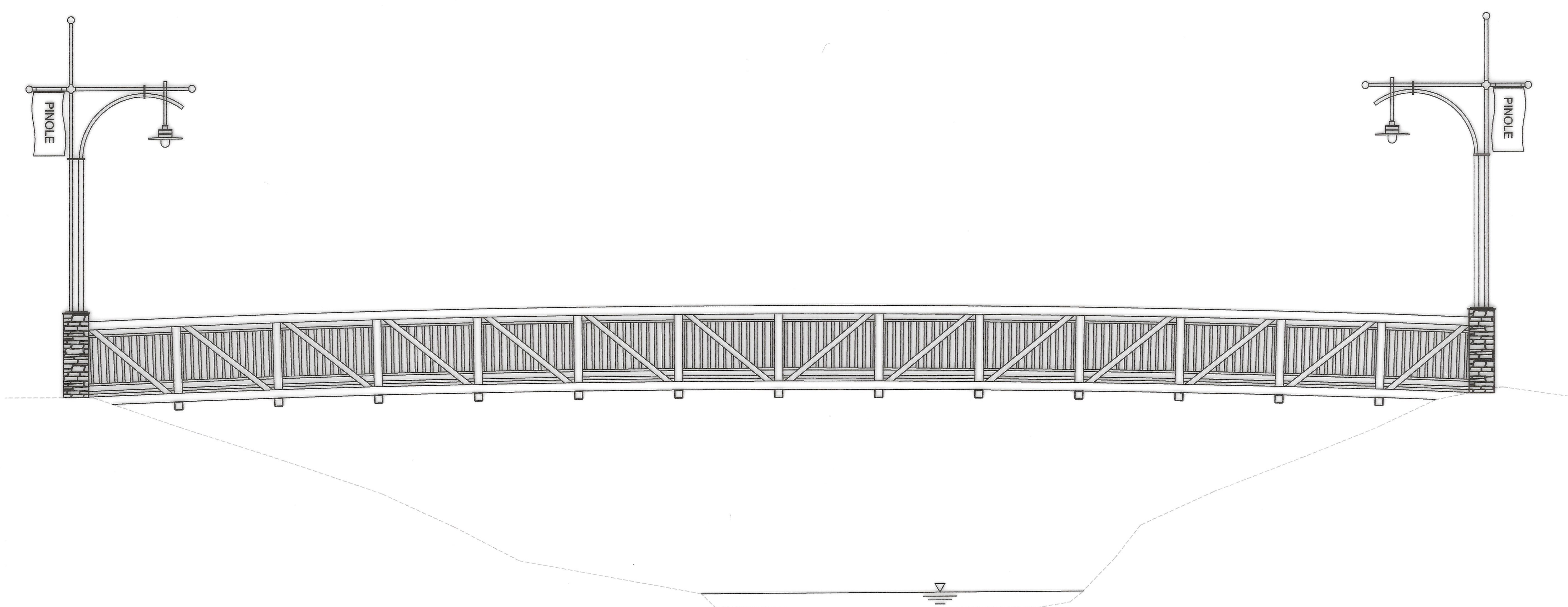
EROSION PLAN
SHEET 7 OF 11



ELECTRICAL PLAN
SCALE: 1" = 5'

NOTES:

1. ALL CONDUITS SHALL BE 2" PVC SCHEDULE 40 ELECTRICAL GRADE, UNLESS OTHERWISE SPECIFIED.
2. ALL CONDUITS SHALL CONTAIN 3-#10 UNLESS OTHERWISE SPECIFIED.
3. ALL PULLBOXES SHALL BE CALTRANS NO. 5 UNLESS OTHERWISE SPECIFIED.
4. DECORATIVE STREETLIGHTS SHALL BE MOUNTED ON 18" x 18" x 5' ROCK PILASTERS.
5. SEE SHEETS 8 AND 9 FOR ADDITIONAL DECORATIVE STREETLIGHT DETAILS.
6. RECESSED LIGHTING SHALL BE INSTALLED IN THE BRIDGE RAILING TO ILLUMINATE THE BRIDGE DECK. LIGHTING SHALL BE APPROPRIATE FOR OUTDOOR, COMMERCIAL USE AND INCORPORATE VANDAL-PROOF EQUIPMENT. THE CONTRACTOR SHALL SUBMIT CUT SHEETS FOR THE PROPOSED RAIL LIGHTING TO THE ENGINEER FOR REVIEW AND APPROVAL.
7. ELECTRICAL CONDUIT CAN NOT EXTEND BELOW THE BOTTOM OF THE BRIDGE.



BRIDGE LIGHTING DETAIL
NTS

1 0 1 2 3

DATE	REVISION	PREPARED BY	DATE
		DRAWN: GMG	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

PRUNE STREET
PEDESTRIAN BRIDGE REPLACEMENT
ELECTRICAL PLAN
CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
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fax (530) 229-9488

SCALE
HORIZONTAL: NONE
VERTICAL: NONE
INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

ELECTRICAL PLAN
SHEET 8 OF 11

PAGE 568.00

GENERAL NOTES AND MATERIALS SPECIFICATIONS

1.) The contractor shall verify all dimensions shown on these drawings prior to construction.
2.) All construction shown on these drawings shall conform to the 1997 edition of the UBC with CBC amendments.
3.) In the event certain features of construction are not specifically addressed on these drawings, construction of such shall be similar to that shown on these drawings, or as directed by the engineer of record.
4.) The engineer of record (See note 1 sheet 2) will not be held responsible if these drawings are used in whole or part at another site or if these drawings are modified without written approval from the engineer of record. These drawings are for reference only. All proposed new lighting projects utilizing this design must submit shop drawings, signed by a California state licensed engineer, for approval prior to start of construction.

DESIGN LOADING

5.) Design loading per the UBC are as follows:

Seismic Zone 3
Wind 75 mph Exposure B

FOUNDATIONS

6.) The foundation design is based on soils constant with UBC chapter 18, table 18-1-a. Class of material no. 4
7.) Footings shall extend a minimum of 12 inches into and bear directly on firm, undisturbed native soil. The contractor shall increase for footing depths shown on the drawings as required to meet this criteria.
8.) The maximum allowable soil bearing for this site is 1500 psf with an allowed increase of 33% for short term loadings and the allowed increses for footing width per Table 18-1-A Footnote no. 2.
9.) The maximum allowable soil friction coefficient for the site is 0.25.
10.) The maximum allowable passive pressure for this site is 150 pounds per cubic foot per foot of depth below undisturbed native soil.

CONCRETE CONSTRUCTION

11.) The contractor shall notify the city representative 48 hours in advance of a planned concrete pour to observe footings, reinforcing, and bolts.
12.) Concrete shall conform to class 560-C-3250 w/4 max slump as described in the currently enforced edition of the standard specification for public works construction.
13.) No conduits, pipes, or other items shall be embedded in concrete unless specifically detailed on the drawings or approved by the engineer.
14.) Concrete quality, mixing, and placing shall be in accordance with UBC Section 1905.
15.) Portland Cement shall conform to ASTM C150 Type II.
16.) All concrete additive shall receive the prior approval of the engineer.
17.) Horizontal construction joints shall have clean, exposed, solidly embedded aggregate over the entire construction joint interface.
18.) Concrete aggregates shall conform to ASTM C33.

CONCRETE REINFORCING

19.) Reinforcing bars #5 and larger shall conform to ASTM A615 grade 60.
20.) Reinforcing bars #4 and smaller shall conform to ASTM A615 grade 40.
21.) Welded wire fabric shall conform to ASTM A185 and shall be lapped 1 spaces.
22.) All bends in reinforcing shall comply with UBC Section 1907 and as shown on sheet 3.
23.) Splices in continuous reinforcing shall be lapped a minimum of 36 bar diameters.
24.) Reinforcing bars shall not be welded.
25.) Minimum concrete reinforcing coverage shall be 3 inches where concrete is cast against the soil and 2 inches where concrete is cast against forms. Reinforcing for slabs on grade shall be at slab mid-depth.
26.) The minimum clear space between parallel bars shall be 1 inch.

NEW DRAWING

SHEET 1 OF 7

REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR/	11/12/99	Bruce Russell	0	CS5151

PAGE 568.01

STRUCTURAL STEEL

27.) Wide flange shapes shall conform to ASTM A36 with Fy=36 KSI.
28.) Structural tubing shapes shall conform to ASTM A500 Grade B, with Fy=46 KSI.
29.) Pipe shall conform ASTM A53 Type E Grade B with Fy=35 KSI.
30.) Bolts shall conform to ASTM A307, unless specifically noted otherwise on plans or details.
31.) Threaded rods shall conform to ASTM A36.
32.) Fabrication and erection of structural steel shall be in accordance with the requirements of UBC Chap. 22.
33.) The fabricator shall maintain identity of the material and shall maintain suitable procedures and records attesting that the specified grade has been furnished.
34.) Bolt holes shall have a diameter equal to the bolt diameter plus 1/16 inch except base plates which may have bolt diameter plus 3/16 inch.
35.) All welding shall be performed by an A.W.S. certified welder.
36.) Single pass filet welds performed in the shop may have periodic inspection per UBC 1701.5.
37.) The contractor shall provide structural steel shop drawings for the engineers review prior to fabrication.
38.) Special inspection per UBC Section 1701 is required for all welding.

NOTES:

1.) STREET LIGHT DESIGN BY TRILOGY ARCHITECTS AND HANNA ENGINERS. ORIGINAL STAMPED BY LICENSED ENGINEERS (TRILOGY/HANNA) DRAWINGS ARE LOCATED IN COR ELECTRIC DEPARTMENT DRAFTING.
2.) THIS DESIGN PLANNED TO BE USED ON YUBA STREET STREETSCAPE PROJECT AS OF 11/15/99.

NEW DRAWING

SHEET 2 OF 7

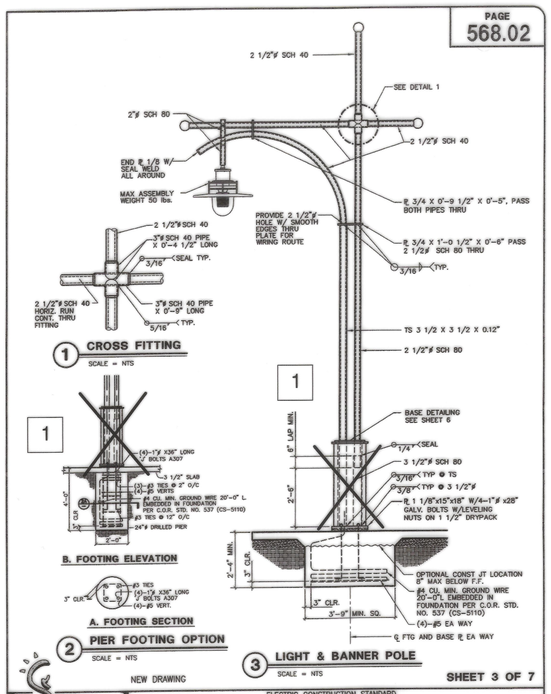
REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR/	11/12/99	Bruce Russell	0	CS5151

PAGE 568.02



NEW DRAWING

SHEET 3 OF 7

REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

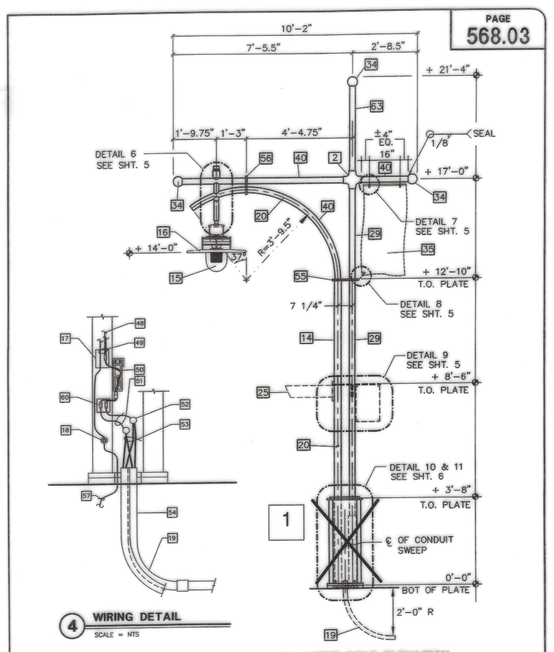
STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR/	11/12/99	Bruce Russell	0	CS5151

NOTES:

1. BASE WILL NOT BE USED FOR BRIDGE CONSTRUCTION. BOLT STREET LIGHT POLE DIRECTLY TO PILASTER.

PAGE 568.03



NEW DRAWING

SHEET 4 OF 7

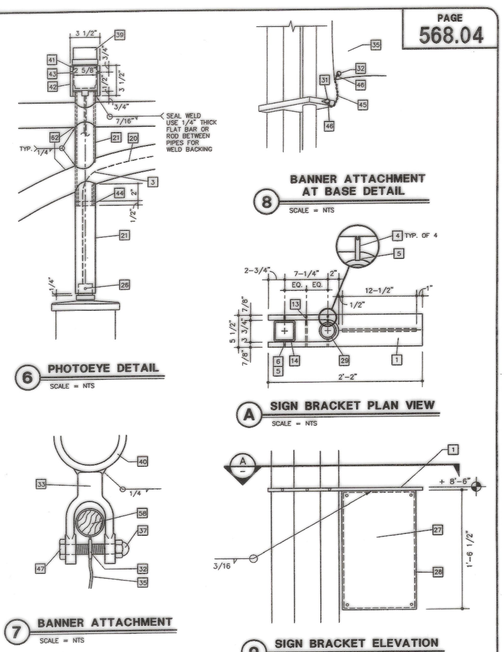
REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR	11/12/99	Bruce Russell	0	CS5151

PAGE 568.04



NEW DRAWING

SHEET 5 OF 7

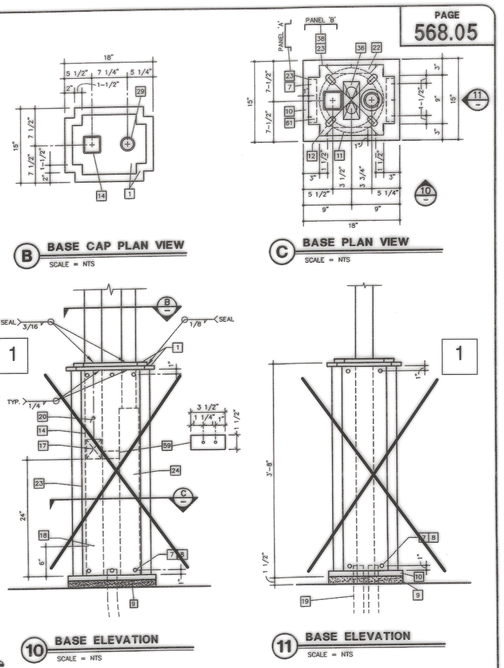
REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR/	11/12/99	Bruce Russell	0	CS5151

PAGE 568.05



NEW DRAWING

SHEET 6 OF 7

REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR/	11/12/99	Bruce Russell	0	CS5151

DATE	REVISION	PREPARED BY
7/27/06		DRAWN: GMG
		DESIGNED: GMG
		CHECKED: MFA
		SURVEY FILE:

PRUNE STREET PEDESTRIAN BRIDGE REPLACEMENT
STREET LIGHT DETAILS

CITY OF PINOLE — COUNTY OF CONTRA COSTA — CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-8500
fax (530) 229-9488

REGISTERED PROFESSIONAL ENGINEER — MARK A. CONSTA — No. 42176 — Exp. 03-31-08 — CIVIL — STATE OF CALIFORNIA

SCALE

HORIZONTAL: NONE
VERTICAL: NONE

INCHES: 0 0.5 2
MILLIMETERS: 0 10 20 30 40 50

1 0 1 2 3

STREET LIGHT

SHEET 9 OF 11

PAGE 568.06

KEYNOTES

1.) Plate 3/4" (See plan view for dimensions).
2.) Cross fitting, see structural.
3.) Wiring access hole in vertical pipe, smooth all edges.
4.) 1/4-20 x 1 1/4" Stainless steel socket set screw w/cup point. Tap steel plate to receive screw.
5.) Indent steel prior to painting for alignment of set screw. Indent all poles even where parking sign is not called for.
6.) 1/4-20 x 1" Stainless steel socket set screw w/cup point. Tap steel plate to receive screw.
7.) 1/4-20 x 1/2" Stainless steel hex socket button head machine screw.
8.) (4) Screws at panel 'A' (6) Screws at panel 'B'.
9.) Dry-pack leveling course.
10.) Plate 1 1/8" (See plan view for dimensions).
11.) 10"-12" mounting bolt circle.
12.) 1 1/8" Dia. elongated bolt hole.
13.) 1/4" Dia. stainless steel threaded rod to keep plate ends from spreading.
14.) TS 3 1/2" x 1 1/2" x 0.12".
15.) Light fixture: 'Lumec' Candela Series (w/ modified shroud), 175MH-CAND-PC-C-RR3MD-240-COLTX-LMS11548A, color: TS, Hammertone silver. Provide shop drawing of modified fixture. (Supplier: ALR/Dan Scott (916) 383-4545).
16.) Single 30" diameter shroud
17.) 3" x 4" Access port opening in tube steel. Smooth all edges.
18.) 3/16" Threaded ground lug welded to TS.
19.) Conduit sweep per C.O.R. Std. No. 539.00 (CS5112).
20.) Wiring route, ease edges along route, to provide smooth pulling of wiring.
21.) 2" Sch. 80 steel pipe w/ internal threaded end under locknut. Pipe to be removable for ease of pulling wiring.
22.) L 1 1/2 x 1 1/2 x 3/16 x 10" L., Plug weld to base plate, tap vertical leg to receive screws. Cut horiz. leg for bolt clearance as shown.
23.) 10 Gauge bent plate to dimension shown for snug fit.
24.) 3 1/2" Sch. 80 Steel pipe.
25.) Street name signage (where shown on site plan) as manu. by 'HAWKINS' Astro sign system per C.O.R. Std. drill, tap and bolt wing bracket to steel tube column (do not use hose clamp).
26.) (3) 3/16 Dia. holes for set screw attachment to nipple on fixture housing. Ream out pipe to fit over fixture nipple.
27.) 12" x 18" Parking limitation or no skateboarding, sign both sides as manu. by 'HAWKINS' or equal. Attach to plate w/ (4) pod rivets.

KEYNOTES (CONTINUE)

28.) 10 Gauge plate. Pre drill holes for sign attachment.
29.) 2 1/2" Sch. 80 Steel pipe.
30.) Pipe and tube steel columns to pass cont. thru plate.
31.) 3/16" Stainless steel eye bolt, drill and tap into end of plate.
32.) Zinc-coated grommet.
33.) Yoke end - no. 2708-6D, machined (Supplier: Austin Hardware, Inc. (800) 648-1150) typ. of 2.
34.) 5" Dia. 11 Ga. hollow metal sphere.
35.) Banner.
36.) 3" x 7" Hole in base plate centered in both directions for electric conduit.
37.) Acorn nut, Stainless steel, 3/8" - 16 w/ Stainless steel washer.
38.) 'B' Panels, unbolt first for access to electrical and anchor bolts.
39.) Photoeye. 'Fisher Pierce' 7790B-SSS per C.O.R. Std. No. (CS5111) set top of receptacle 3/8" above top of pipe.
40.) 2 1/2" Sch. 40 Steel pipe.
41.) Sealant.
42.) 3" Sch. 80 Steel pipe.
43.) (3) 1/4 -20 Stainless steel set screws.
44.) Locknut out of 2" Sch. 80. Internal threaded.
45.) Zinc-coated single jack #14 chain link.
46.) Zinc-coated end lap repair metal link, 1/4 x 1 1/4.
47.) Hex head stainless steel cap screw 3/8"-16 x 2 1/4" long.
48.) Wiring to fixture inside tube steel.
49.) #14 Cu. wires, 600 V, Insulated.
50.) Ballast:, High power factor, multi-voltage per C.O.R. Std. No. 538.00 (CS5111).
51.) #12 Cu. min. tap wire, 600 V, Insulated.
52.) Waterproof splice (typ.).
53.) #6 Aluminum phase wires per City of Redding Electric Utility Std. No. 537.00 (CS5110) and No. 508.00 (CS200).
54.) Conduits shown out of alignment for clarity.
55.) Plate, 3/4" x 1'-0 1/2" x 6".
56.) Plate, 3/4" x 0'-9 1/2" x 0'-5".
57.) #4 Cu. min. ground wire 20'-0" embedded in foundation per C.O.R. Electric Utility Std. No. 537.00 (CS5110)
58.) 1" Dia. wood dowel stitched into banner sleeve.
59.) Ballast attachment plate. 10 ga. - w/(2) 1/4" pre-drilled holes.
60.) Fuse block: "Bussman" HEB-AL Fuse Holder, KTK Fuse, 6 Amp, 1A0512 boot.
61.) L 1 1/2 x 1 1/2 x 3/16 x 8" L, Plug weld to base plate, tap vert. leg to receive screws.
62.) Cut hole in horizontal members for vertical pipe to pass thru.

REV. WIRE SIZE #49

SHEET 7 OF 7

REDDING ELECTRIC UTILITY

ELECTRIC CONSTRUCTION STANDARD

STREETSCAPE
STREET LIGHT STANDARD AND DETAILS

DES/REV	DATE	DISTRIBUTION SYSTEM MANAGER	REVISED	DWG. NO.
BRR/RO	11/12/99		4/16/03 1	CS5151

DATE	REVISION

PREPARED BY

DRAWN: GMG — DATE 7/27/06
DESIGNED: GMG
CHECKED: MFA
SURVEY FILE:

PRUNE STREET
PEDESTRIAN BRIDGE REPLACEMENT
STREET LIGHT DETAILS

CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 243-8000
fax (530) 229-9488

REGISTERED PROFESSIONAL ENGINEER — ROBERT M. GOSS — No. 42178 — Exp. 03-31-07 — CIVIL — STATE OF CALIFORNIA

SCALE

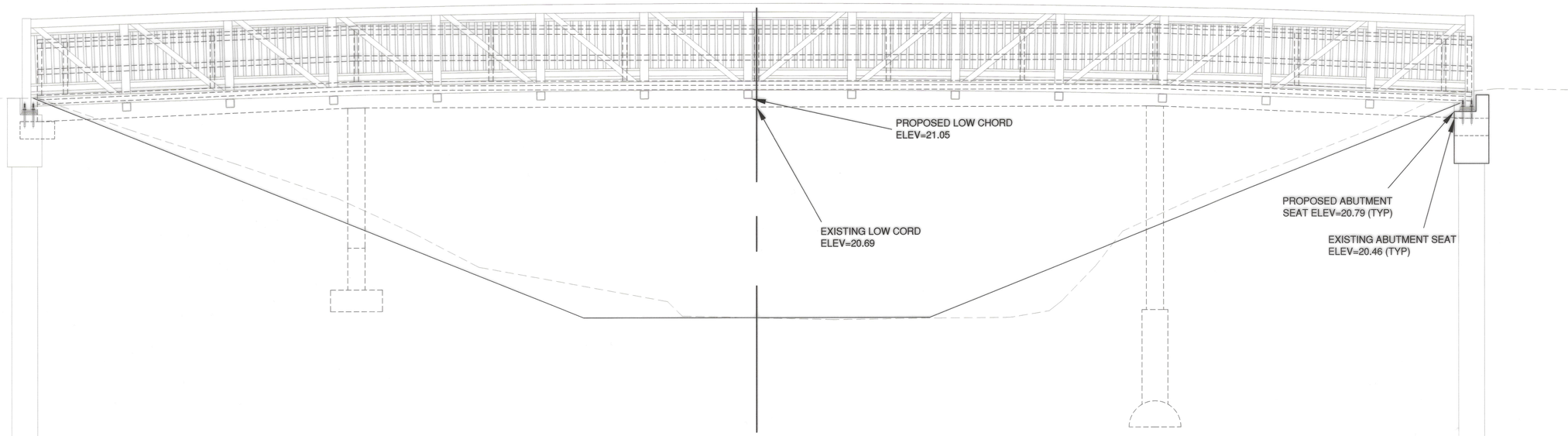
HORIZONTAL: NONE
VERTICAL: NONE

INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

1 0 1 2 3

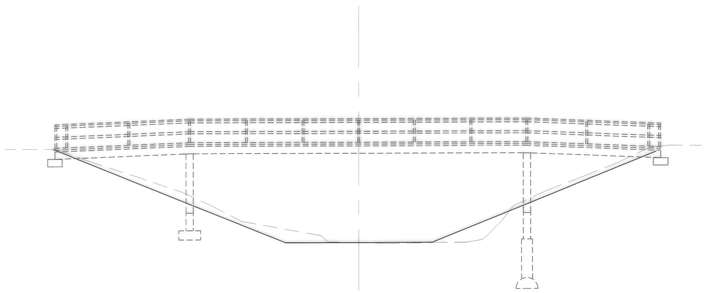
STREET LIGHT

SHEET 10 OF 11



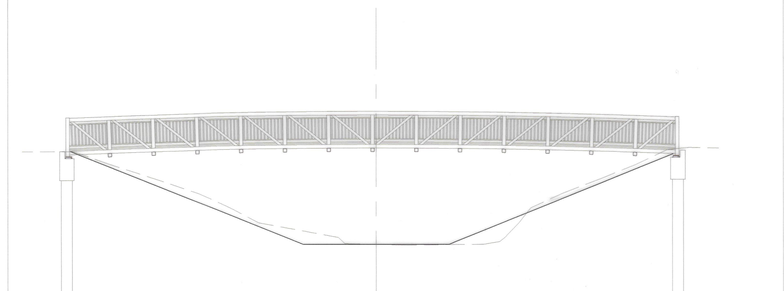
EXISTING & PROPOSED BRIDGES
SUPERIMPOSED VIEW

NTS



EXISTING BRIDGE

NTS



PROPOSED BRIDGE

NTS

NOTES:

THIS SHEET IS FOR INFORMATION PURPOSES ONLY. IT SHOWS THE RELATIONSHIP OF THE EXISTING BRIDGE TO THAT OF THE PROPOSED BRIDGE.

DATE	REVISION	PREPARED BY	DATE
		DRAWN: JRB	7/27/06
		DESIGNED: GMG	
		CHECKED: MFA	
		SURVEY FILE:	

PRUNE STREET
PEDESTRIAN BRIDGE REPLACEMENT
BRIDGE OVERLAY

CITY OF PINOLE COUNTY OF CONTRA COSTA CALIFORNIA

WILLDAN
Serving Public Agencies
2400 Washington Avenue, Ste. 101
Redding, CA 96001
(530) 244-4500
fax (530) 229-0488

SCALE

HORIZONTAL: NONE
VERTICAL: NONE

INCHES 0 0.5 1 2
MILLIMETERS 0 10 20 30 40 50

BRIDGE OVERLAY

SHEET 11 OF 11