Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	1	12

INDEX OF PLANS

SHEET No	DESCRIPTION
1	TITLE AND LOCATION MAP
2-3	CONSTRUCTION AREA SIGNS
4	TRAFFIC HANDLING DETAILS AND SUMMARY OF QUANTITIES
5-6	TRAFFIC CONTROL SYSTEM
	STRUCTURE PLANS
7-12	GENERAL PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

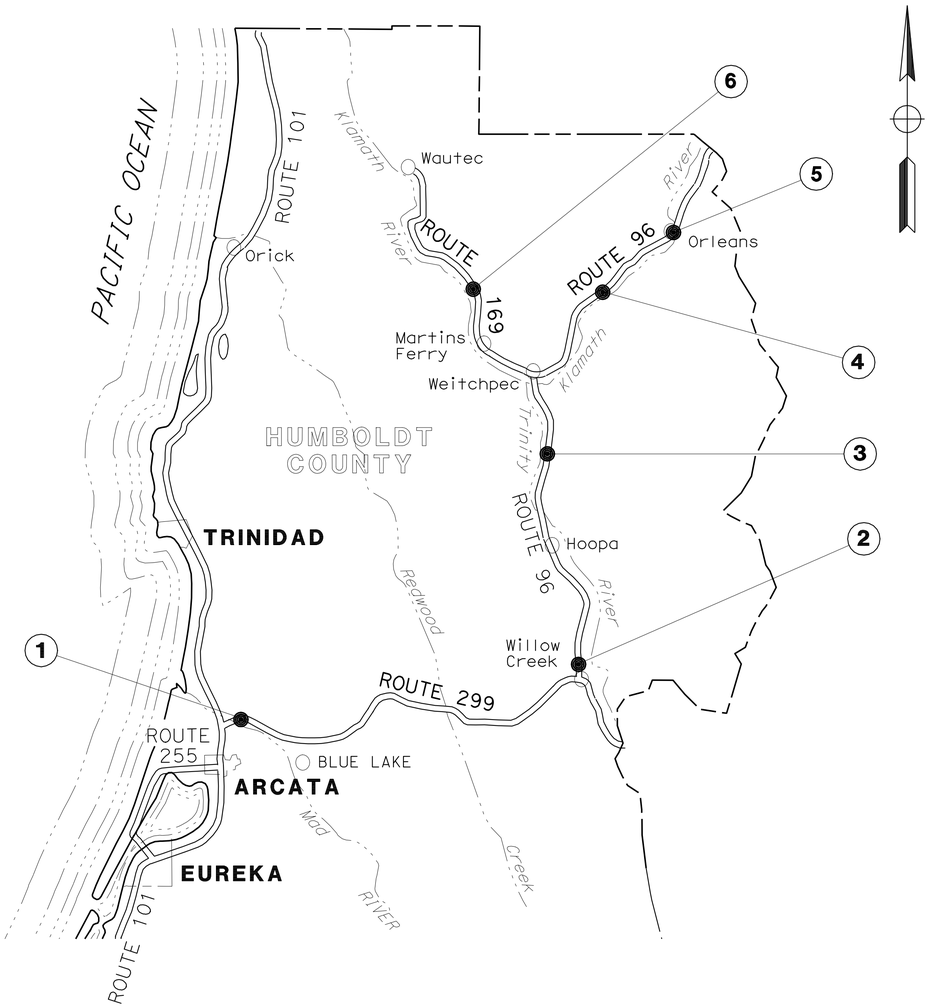
STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON STATE HIGHWAY

IN HUMBOLDT COUNTY AT VARIOUS LOCATIONS

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



LOCATION MAP

LOCATIONS OF CONSTRUCTION

LOCATION	COUNTY	ROUTE	PM	BRIDGE NAME	BRIDGE No.
1	Hum	299	R1.56	MAD RIVER	04-0036R
2	Hum	96	0.24	WILLOW CREEK	04-0135
3	Hum	96	16.76	ROCK CHUTE SIDEHILL VIADUCT	04-0053
4	Hum	96	R28.91	BLUFF CREEK	04-0225
5	Hum	96	R38.57	KLAMATH RIVER	04-0069
6	Hum	169	27.57	RUBE CREEK	04-0215

PROJECT MANAGER: Royal B. McCarthy

DESIGN ENGINEER: Royal B. McCarthy

THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

James T. Van Bonn 12/28/12
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

December 28, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James T. Van Bonn — No. 70723 — Exp. 6-30-13 — CIVIL — STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CONTRACT No.	01-0A4504
PROJECT ID	0100020283

LAST REVISION 00-00-00
DATE PLOTTED => 25-JAN-2013
TIME PLOTTED => 15:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	2	12

James T. Van Bonn 12/28/12
REGISTERED CIVIL ENGINEER DATE

December 28, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James T. Van Bonn No. 70723 Exp 6-30-13 CIVIL — STATE OF CALIFORNIA

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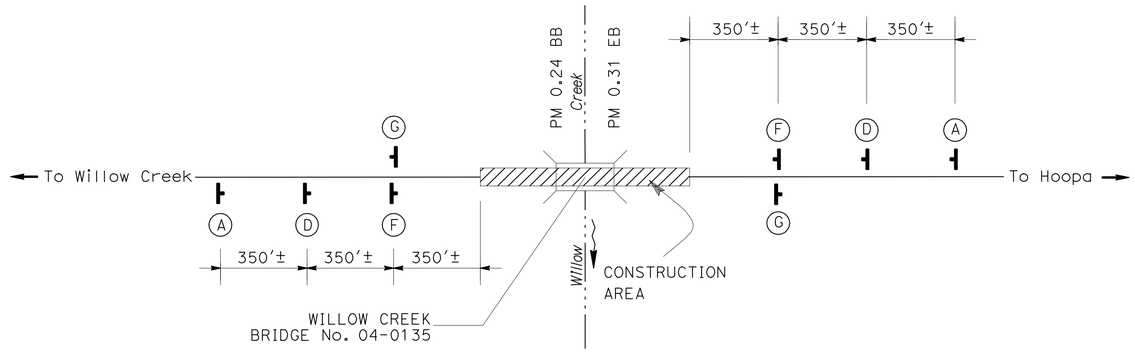
CONSTRUCTION AREA SIGNS

SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE (IN x IN)	NO OF POSTS AND SIZE (IN x IN)	NO.OF SIGNS
Ⓐ	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	108x42	2-6x6	10
Ⓑ	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144x60	2-6x8	1
Ⓒ	W20-1	ROAD WORK AHEAD	36x36	1-4x6	1
Ⓓ	W20-1	ROAD WORK AHEAD	36x36	1-6x6	10
	C23B(CA)	BRIDGE REPAIR	28x18		
Ⓔ	W20-1	ROAD WORK AHEAD	48x48	1-6x6	2
	C23B(CA)	BRIDGE REPAIR	36x24		
Ⓕ	W11-1	BICYCLE SYMBOL	36x36	1-4x6	11
	W16-1	SHARE THE ROAD	24x30		
Ⓖ	G20-2	END ROAD WORK	36x18	1-4x4	10
Ⓗ	G20-2	END ROAD WORK	48x24	1-4x6	1

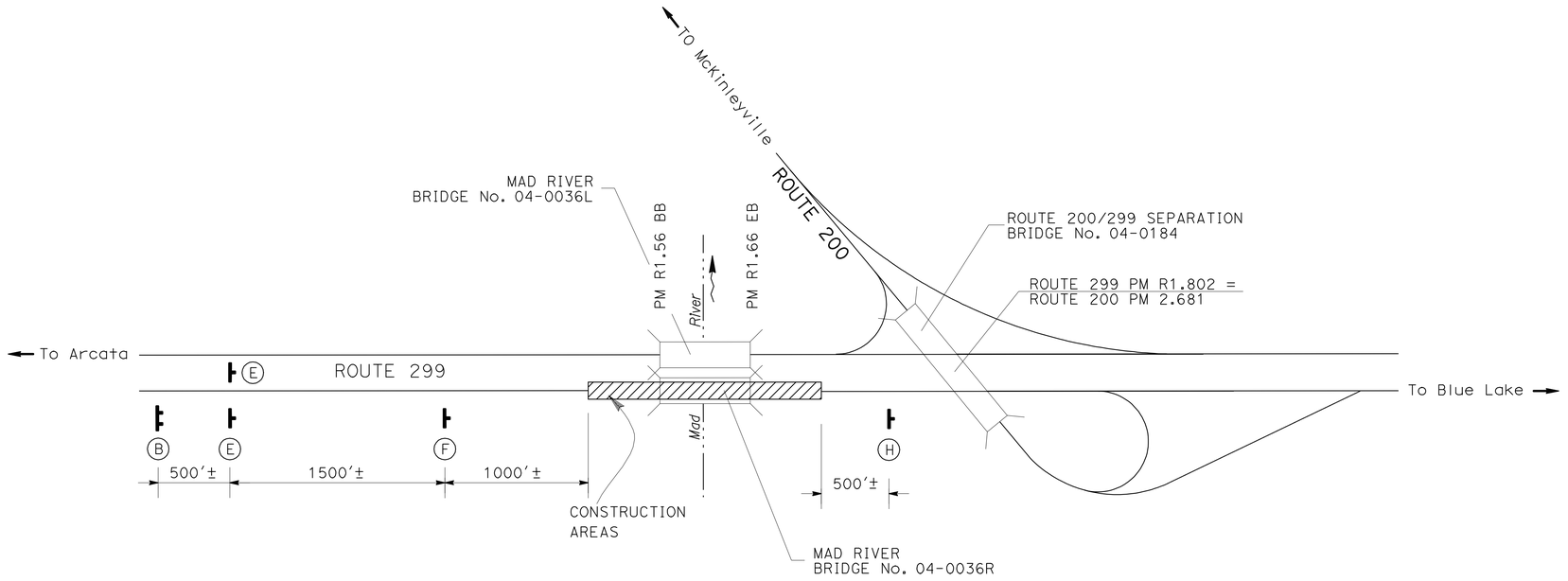
NOTES:

1. EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THESE PLANS.



LOCATION 2

WILLOW CREEK
BRIDGE No. 04-0135



LOCATION 1

MAD RIVER
BRIDGE No. 04-0036R

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
CS-1

NO SCALE

REVISED BY | DATE REVISED
James T. Van Bonn | Curtis Coburn
CALCULATED-DESIGNED BY | CHECKED BY
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR
Royal B. McCarthy

LAST REVISION | DATE PLOTTED => 25-JAN-2013
00-00-00 | TIME PLOTTED => 15:12

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10a4501a001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01000202831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	3	12

James T. Van Bonn 12/28/12
REGISTERED CIVIL ENGINEER DATE

December 28, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
James T. Van Bonn
No. 70723
Exp 6-30-13
CIVIL
STATE OF CALIFORNIA

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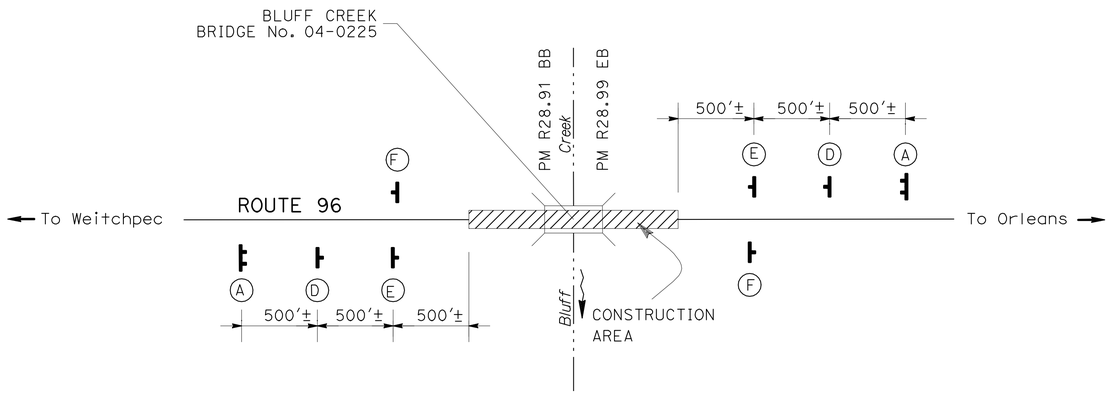
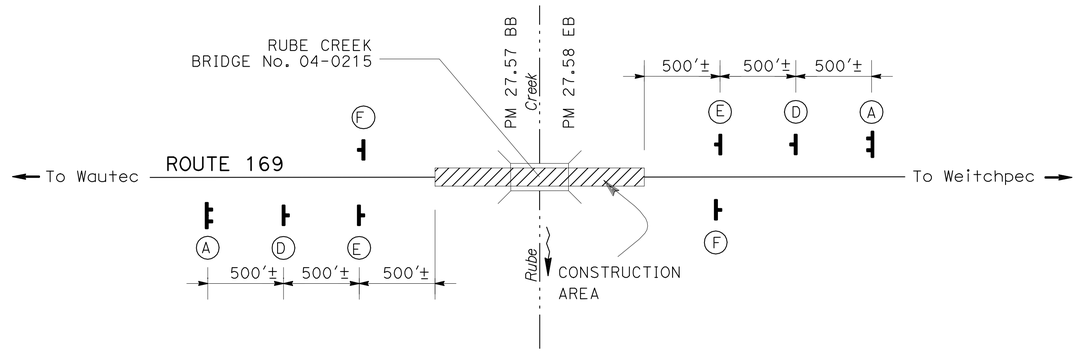


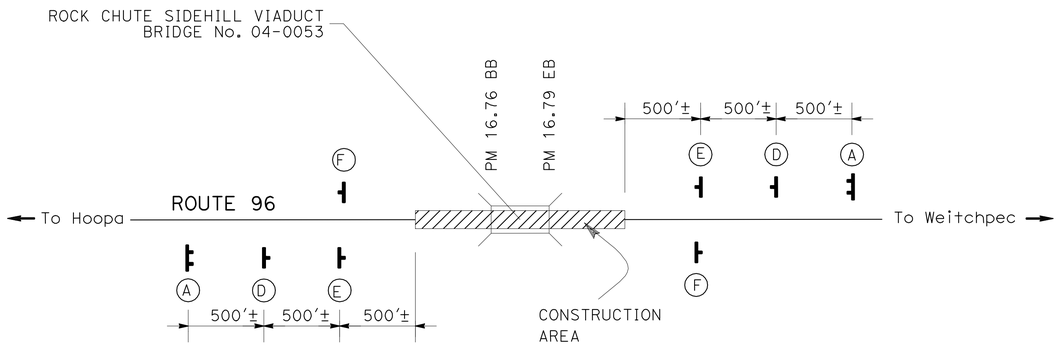
LOCATION 4

BLUFF CREEK
BRIDGE No. 04-0225



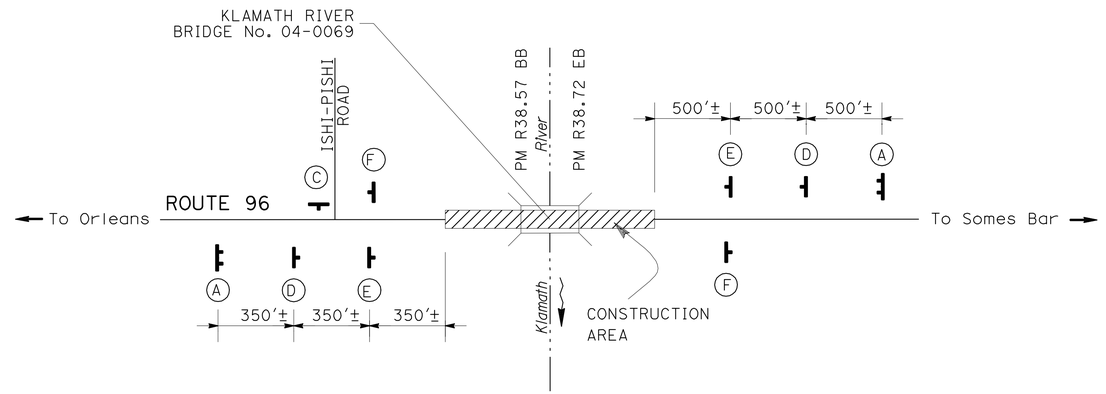
LOCATION 6

RUBE CREEK
BRIDGE No. 04-0215



LOCATION 3

ROCK CHUTE SIDEHILL VIADUCT
BRIDGE No. 04-0053



LOCATION 5

KLAMATH RIVER
BRIDGE No. 04-0069

CONSTRUCTION AREA SIGNS
CS-2

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: Royal B. McCarthy
CALCULATED-DESIGNED BY: James T. Van Bonn
CHECKED BY: Curtis Coburn
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 25-JAN-2013
TIME PLOTTED => 15:12

BORDER LAST REVISED 7/2/2010
USERNAME => s121671
DGN FILE => 10a450ia002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0052
PROJECT NUMBER & PHASE 01000202831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	4	12

James T. Van Bonn 12/28/12
REGISTERED CIVIL ENGINEER DATE

December 28, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — James T. Van Bonn No. 70723 Exp 6-30-13 CIVIL — STATE OF CALIFORNIA

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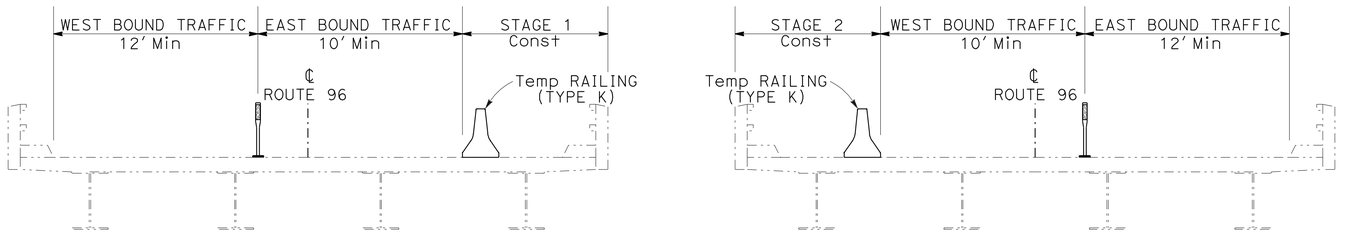
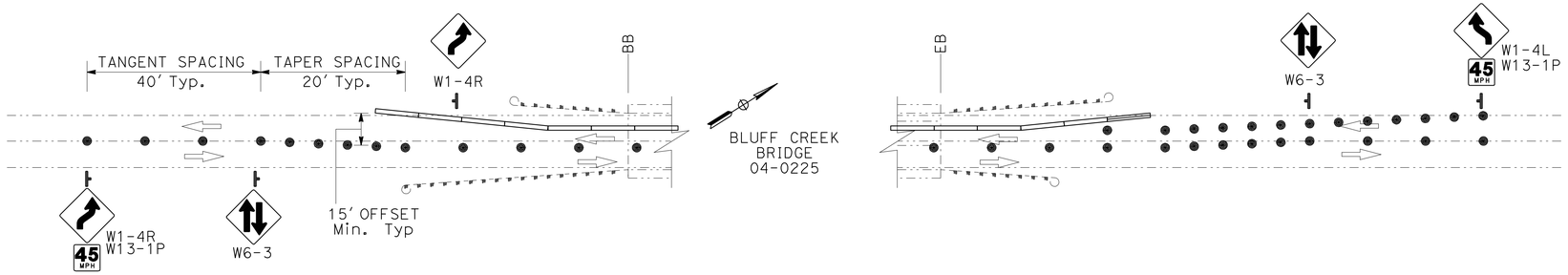
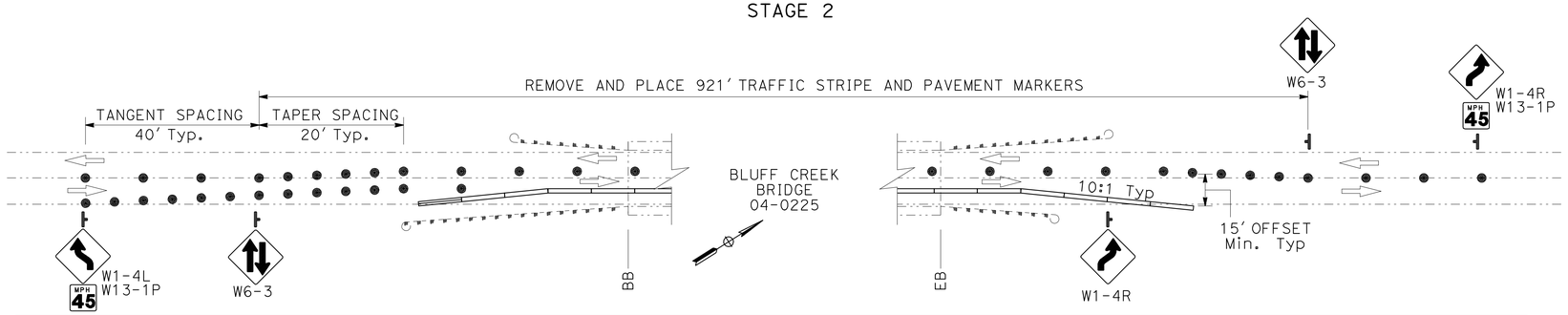


TYPICAL SECTIONS



STAGE 2



STAGE 1

RELOCATE SIGN PANELS

STAGE	SIGN CODE	SIGN MESSAGE
2	W1-4R	REVERSE CURVE SYMBOL
	W1-4L	REVERSE CURVE SYMBOL

RELOCATE TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS

STAGE	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
2	W1-4R	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1

EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

TEMPORARY MOUNTED CONSTRUCTION AREA SIGNS

STAGE	SIGN CODE	SIGN MESSAGE	PANEL SIZE	No. OF POSTS AND SIZE	No. OF SIGNS
1	W1-4R	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1
	W1-4R	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1
	W13-1P	45 MPH	24"x24"		
	W1-4L	REVERSE CURVE SYMBOL	36"x36"	1-4"x6"	1
	W13-1P	45 MPH	24"x24"		
	W1-4R	TWO-WAY TRAFFIC SYMBOL	36"x36"	1-4"x6"	2

EXACT SIGN LOCATION TO BE DETERMINED BY THE ENGINEER.

TEMPORARY RAILING (TYPE K)

LOCATION FROM	LOCATION TO	TEMPORARY RAILING (TYPE K) LF	REMARKS
PM R28.89	PM R29.00	600	STAGE 1
	TOTAL	600	

RELOCATE TEMPORARY K-RAIL

LOCATION FROM	LOCATION TO	RELOCATE TEMPORARY K-RAIL LF	REMARKS
PM R28.89	PM R29.00	600	STAGE 2
	TOTAL	600	

ALTERNATIVE TEMPORARY CRASH CUSHION

LOCATION	EA	REMARKS
R28.88	1	STAGE 1 (FEBT)
TOTAL	1	

RELOCATE ALTERNATIVE TEMPORARY CRASH CUSHION

LOCATION	EA	REMARKS
R29.01	1	STAGE 2 (FWBT)
TOTAL	1	

TRAFFIC STRIPE QUANTITIES

LOCATION (PM) No.	FROM	TO	DETAIL No.	DETAIL LENGTH	THERMOPLASTIC TRAFFIC STRIPE REMOVE YELLOW (HW)	THERMOPLASTIC TRAFFIC STRIPE 4"	PAVEMENT MARKERS (N) REMOVE	PAVEMENT MARKERS (RETRO REFLECTIVE) TYPE D
				LF			EA	
4	R28.862	R28.911	22	260	520	520	22	22
	R28.911	R28.986	21	401	802	802		
	R28.986	R29.035	22	260	520	520	22	22
				TOTAL	1842	1842	44	44

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

CHANNELIZER

LOCATION FROM	LOCATION TO	CHANNELIZER (SURFACE MOUNTED) EA	REMARKS
PM R28.89	PM R29.00	50	STAGE 1
PM R28.89	PM R29.00	42	STAGE 2
	TOTAL	92	

LEGEND

- ● = CHANNELIZERS
- ▭ = K-RAIL
- ▬ = ALTERNATIVE TEMPORARY CRASH CUSHION
- ····· = EXISTING
- HW = HAZARDOUS WASTE

TRAFFIC HANDLING DETAILS AND SUMMARY OF QUANTITIES THD-1

NO SCALE

REVISED BY | DATE REVISED
James T. Van Bonn | Curtis Coburn
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: Royal B. McCarthy
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 25-JAN-2013
00-00-00 | TIME PLOTTED => 15:12

BORDER LAST REVISED 7/2/2010 | USERNAME => s121671 | DGN FILE => 10a450me001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0052 | PROJECT NUMBER & PHASE 01000202831

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	5	12

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

December 28, 2012
PLANS APPROVAL DATE

Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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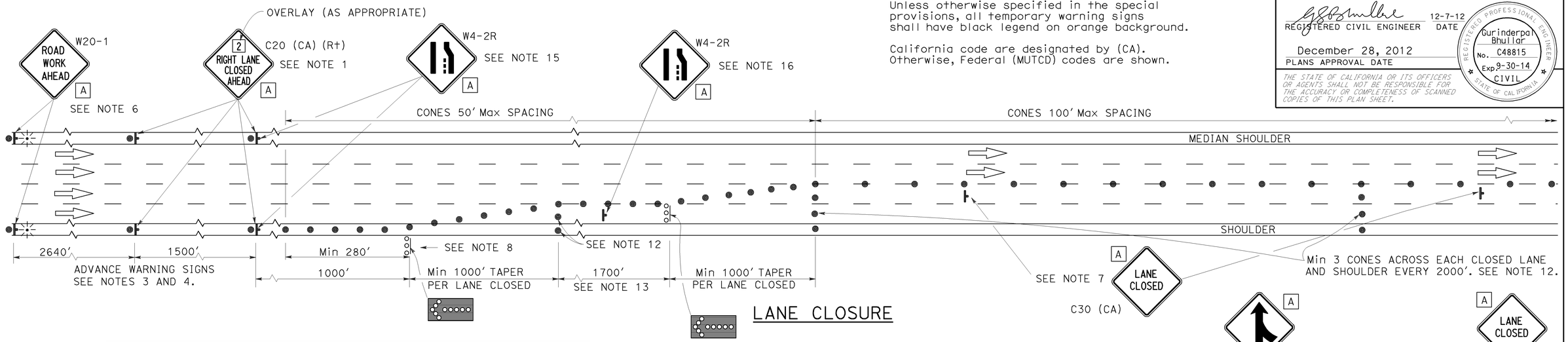
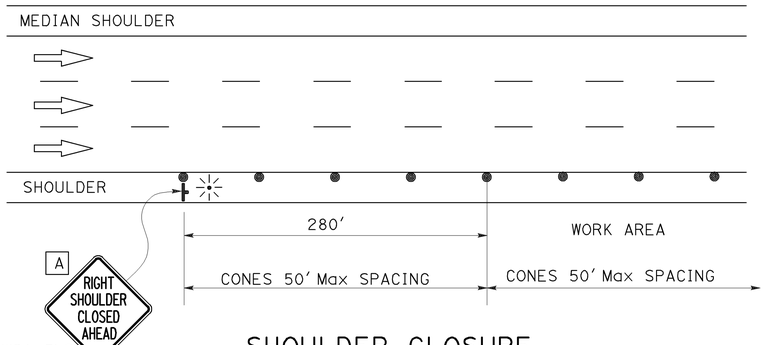
NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

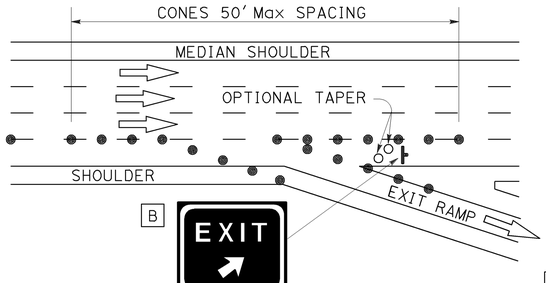
California code are designated by (CA).
Otherwise, Federal (MUTCD) codes are shown.



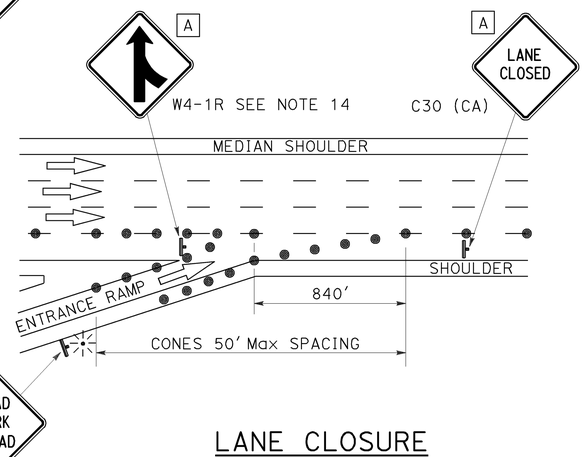
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT EXIT RAMP



LANE CLOSURE AT ENTRANCE RAMP

NOTES:

1. Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
3. Duplicate sign installations are not required:
   a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
   b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
5. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
7. Place a C30 (CA) sign every 2000' throughout length of lane closure.
8. One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
13. Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
15. When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
16. The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

- A — 48" × 48"
- B — 54" × 48"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- FLASHING ARROW SIGN (FAS)
- FAS SUPPORT OR TRAILER
- PORTABLE FLASHING BEACON

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

TCS-1

REVISED BY | DATE REVISED
CALCULATED- | DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION | DATE PLOTTED => 10-DEC-2012
00-00-00 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	6	12

REGISTERED CIVIL ENGINEER — 12-7-12 DATE

December 28, 2012
PLANS APPROVAL DATE

Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

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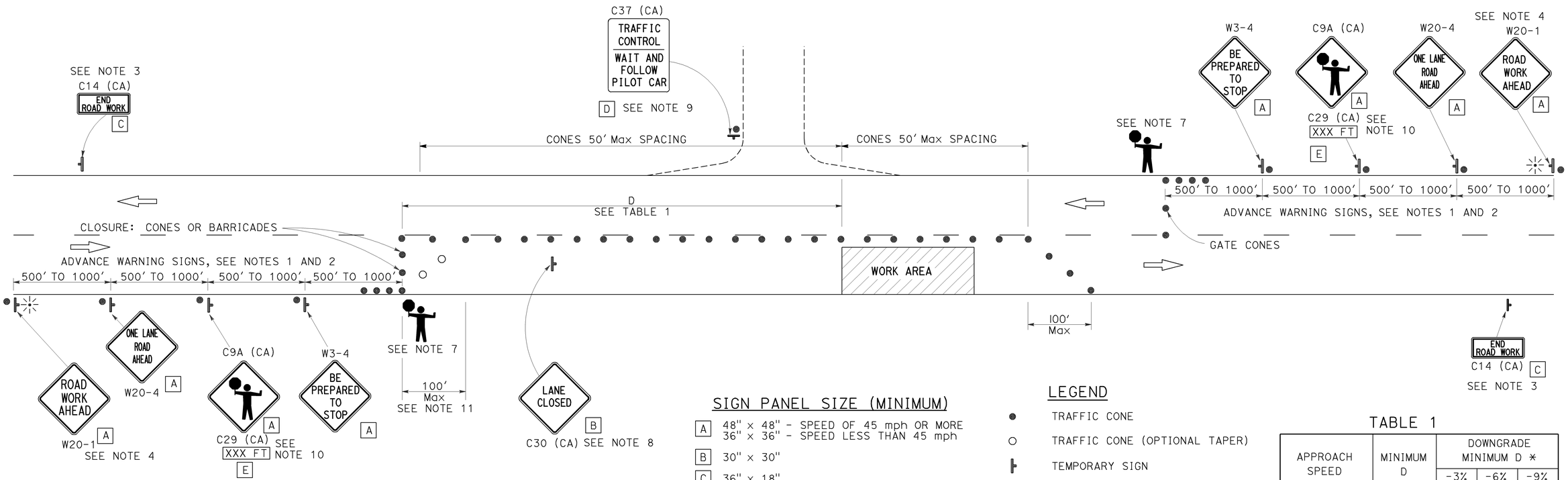
NOTES:

Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.

California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (MINIMUM)

- A — 48" x 48" - SPEED OF 45 mph OR MORE; 36" x 36" - SPEED LESS THAN 45 mph
- B — 30" x 30"
- C — 36" x 18"
- D — 36" x 42"
- E — 36" x 9"

LEGEND

- TRAFFIC CONE
- TRAFFIC CONE (OPTIONAL TAPER)
- TEMPORARY SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

TABLE 1

APPROACH SPEED	MINIMUM D	DOWNGRADE MINIMUM D *		
		-3%	-6%	-9%
mph	ft	ft	ft	ft
25 AND BELOW	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785

* USE ON SUSTAINED DOWNGRADE STEEPER THAN -3 PERCENT AND LONGER THAN 1 MILE.

NOTES:

1. Where approach speeds are low, advance warning signs may be placed at 300' spacing, and closer in urban areas.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
4. If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____MILES", use a W20-4 sign for the first advance warning sign.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
8. Place C30 (CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
9. When a pilot car is used, place a C37 (CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign at all intersections within traffic control area. Signs shall be clean and visible at all times.
10. An optional C29 (CA) sign may be placed below the C9A (CA) sign.
11. Traffic cones or barricades may be placed on the optional taper as shown, barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

TCS-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

LAST REVISION DATE PLOTTED => 10-DEC-2012
00-00-00 TIME PLOTTED => 09:45

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	7	12

T J Powell 11-7-12
REGISTERED CIVIL ENGINEER DATE

12/28/2012
PLANS APPROVAL DATE

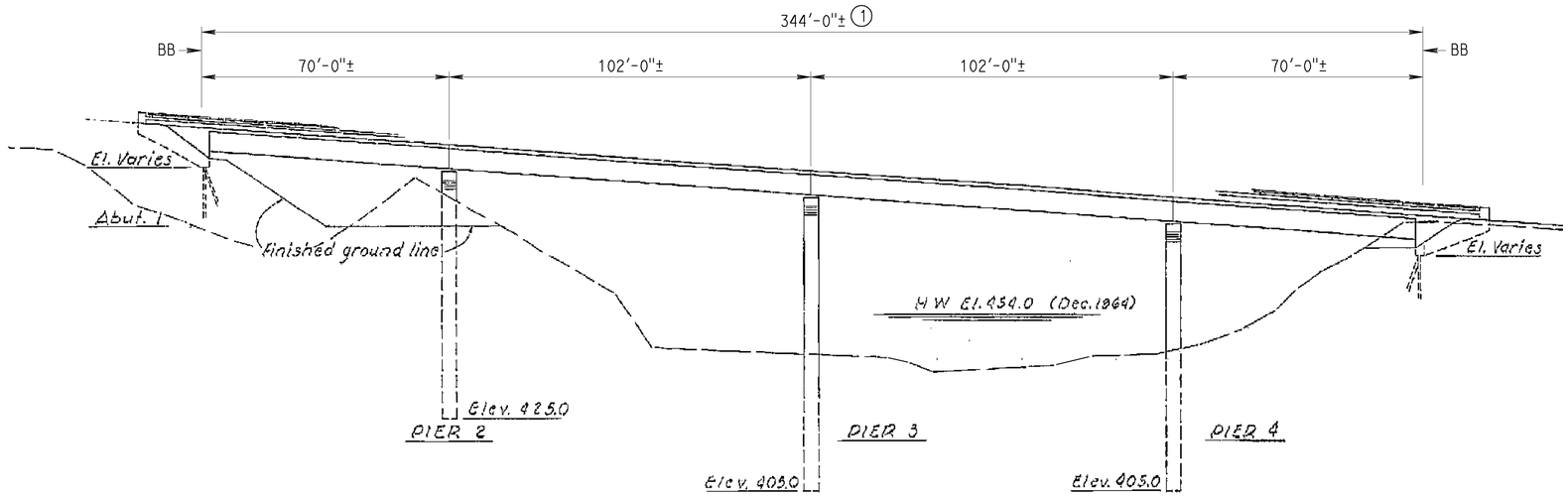
REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. POWELL No. C 61037 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

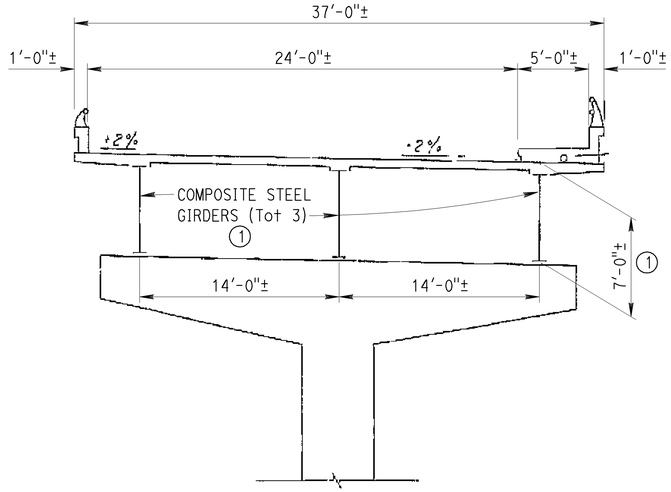
WILLOW CREEK BRIDGE NO. 04-0135

QUANTITIES

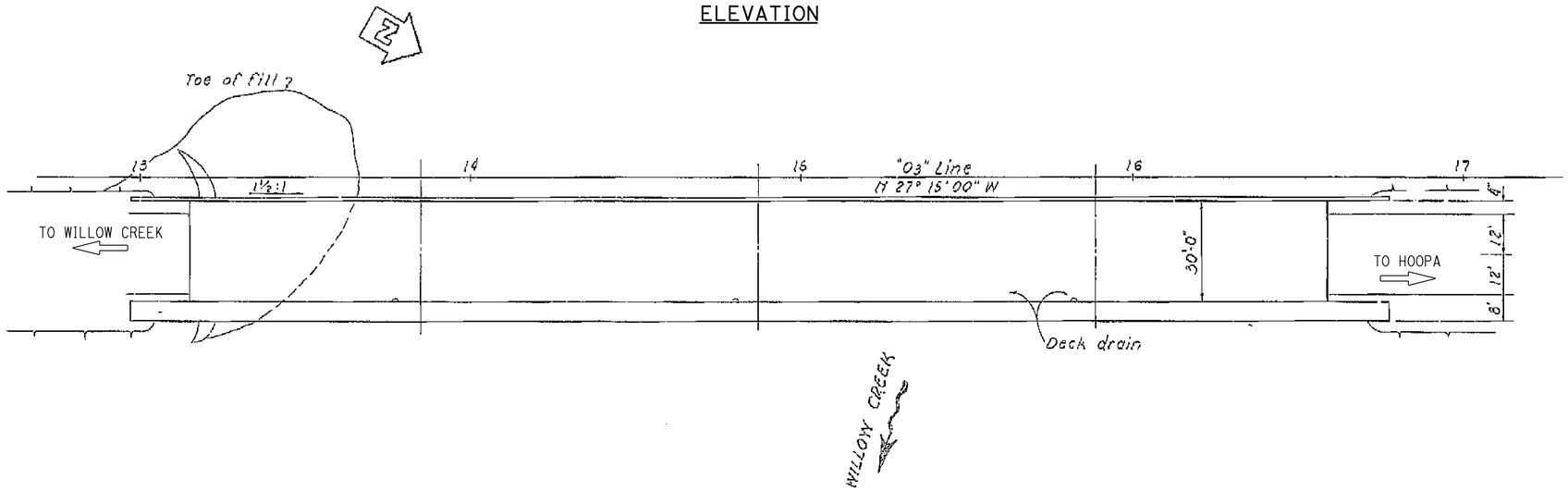
CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	2,040 SQFT
WORK AREA MONITORING	LUMP SUM



ELEVATION



TYPICAL SECTION



WILLOW CREEK - PLAN

Br No. 04-0135, ROUTE 96, PM 0.24
NO SCALE

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES: (APPLY TO THIS SHEET ONLY)

(1) Indicates limits spot blast clean and paint undercoat, approximate surface area = 10% of existing structural steel, and clean and paint existing structural steel.

Except where noted otherwise, details shown on this sheet are from "as built" plans and are for information only.

INDEX TO PLANS

SHEET NO.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6

STANDARD PLANS DATED 2010

SHEET NO.	TITLE
A10A	ABBREVIATIONS (SHEET 1 OF 2)
A10B	ABBREVIATIONS (SHEET 2 OF 2)

Michael J. Lee 11-7-12
DESIGN ENGINEER

DESIGN	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON	LAYOUT	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON		
QUANTITIES	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	SPECIFICATIONS	BY DAVE KLEIN	PLANS AND SPECS COMPARED DAVE KLEIN		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.
VARIOUS
POST MILE
VARIES

ROUTE 96, 169 & 299 BRIDGES (PAINT STEEL)

GENERAL PLAN No. 1

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0100020283 1 CONTRACT NO.: 01-0A4501

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES					SHEET	OF
12-13-11	7-10-12	11-7-12			1	6

FILE => 01-0a4501_01gp1.dgn

USERNAME => s121511 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 06:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	8	12

T J Powell 11-7-12
REGISTERED CIVIL ENGINEER DATE

12/28/2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY J. POWELL — No. C 61037 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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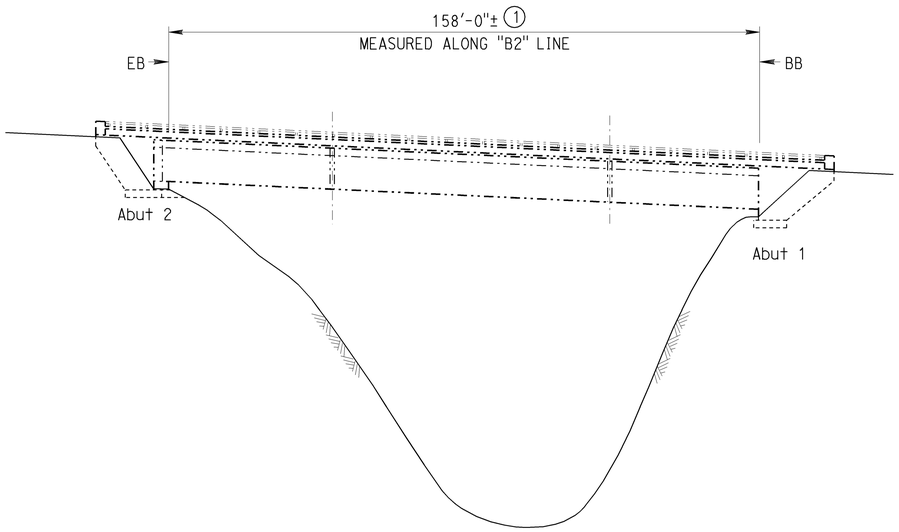
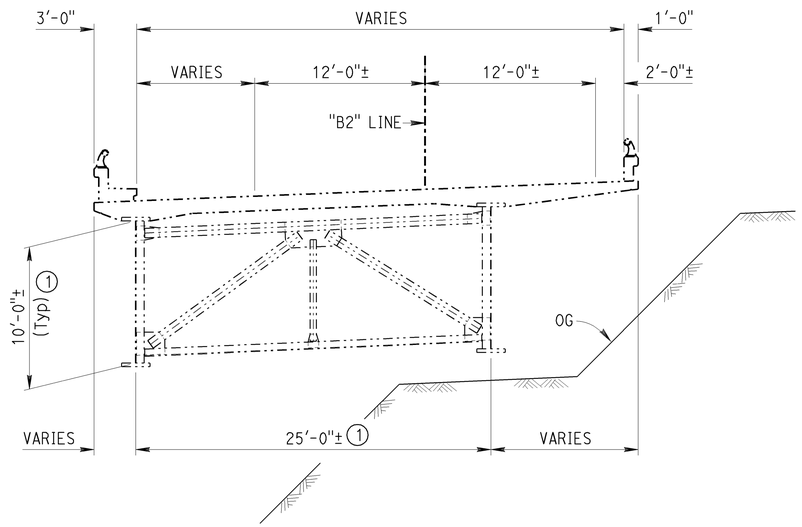


ELEVATION A-A
1" = 20'

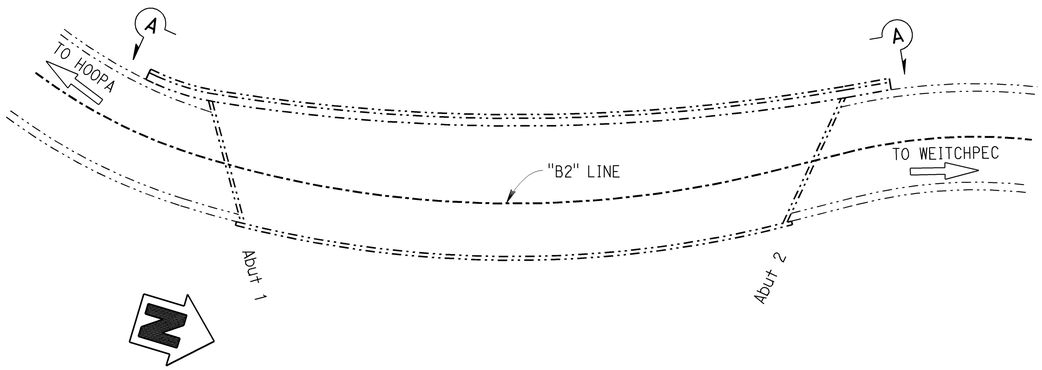


TYPICAL SECTION
3/16" = 1'

NOTES: (APPLY TO THIS SHEET ONLY)

····-····- Indicates existing.

(1) Indicates limits of spot blast clean and paint undercoat, approximate surface area = 10% of existing structural steel, and clean and paint existing structural steel.



ROCK CHUTE SIDEHILL VIADUCT - PLAN
Br No. 04-0053, ROUTE 96, PM 16.76
1" = 20'

ROCK CHUTE SIDEHILL VIADUCT BRIDGE NO. 04-0053

QUANTITIES

CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	1,065 SQFT
WORK AREA MONITORING	LUMP SUM

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Michael J. Lee 11-7-12
DESIGN ENGINEER

DESIGN	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON	LAYOUT	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON
QUANTITIES	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	SPECIFICATIONS	BY DAVE KLEIN	PLANS AND SPECS COMPARED DAVE KLEIN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 96, 169 & 299 BRIDGES (PAINT STEEL)
VARIOUS	
POST MILE	GENERAL PLAN NO. 2
VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0100020283 1 CONTRACT NO.: 01-0A4501

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES: 12-13-11 | 7-10-12 | 11-7-12

SHEET 2 OF 6

FILE => 01-0a4501_02gp2.dgn

USERNAME => s1215l1 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 06:10

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	9	12

T J Powell 11-7-12
REGISTERED CIVIL ENGINEER DATE

12/28/2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY J. POWELL — No. C 61037 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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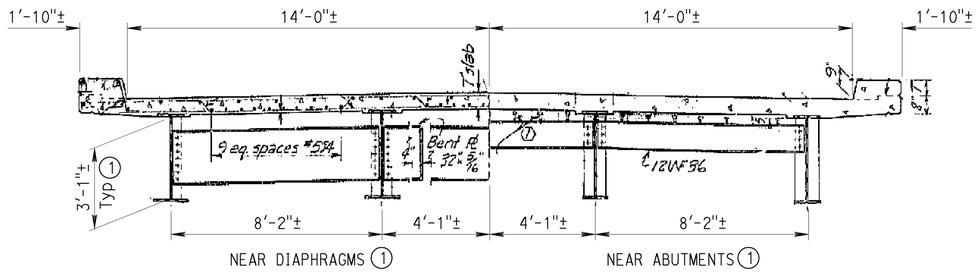
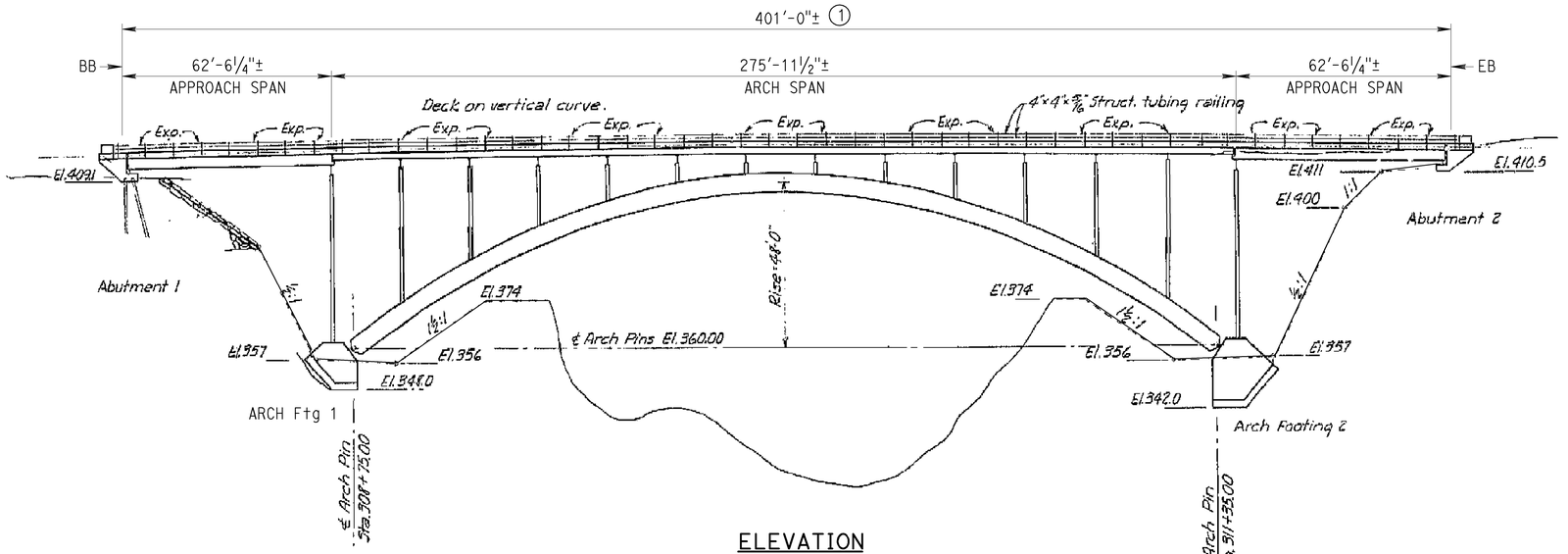


APPROACH SPAN SECTION

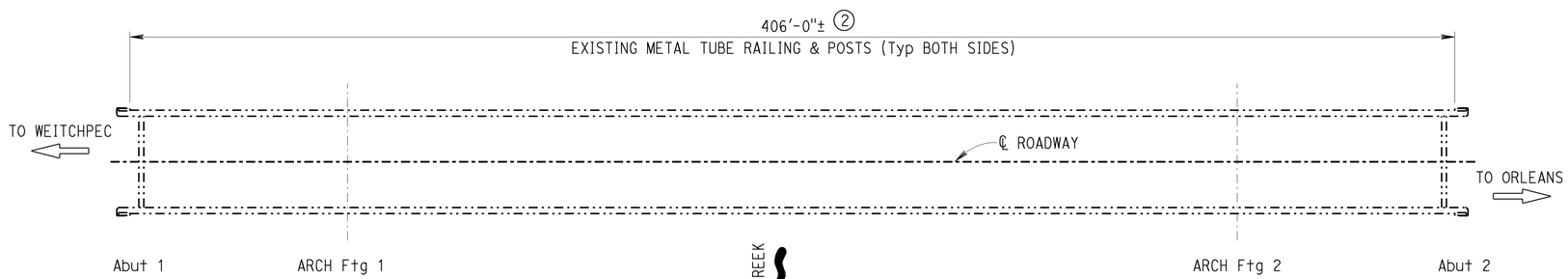
BLUFF CREEK BRIDGE NO. 04-0225

QUANTITIES

CLEAN AND PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
WORK AREA MONITORING	LUMP SUM



ELEVATION



BLUFF CREEK - PLAN

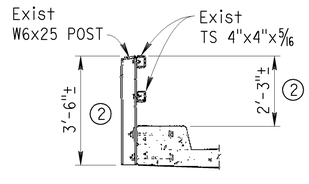
Br No. 04-0225, ROUTE 96, PM R28.91
NO SCALE

NOTES: (APPLY TO THIS SHEET ONLY)

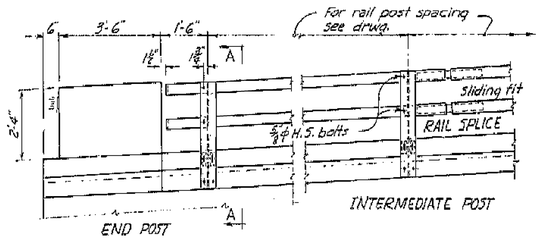
(1) Indicates limits of blast clean and paint undercoat, and paint existing structural steel.

(2) Indicates limits of blast clean and paint undercoat, and paint existing steel posts and structural tube railing.

Except where noted otherwise, details shown on this sheet are from "as built" plans and are for information only.



SECTION A-A



EXISTING RAIL ELEVATION

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Michael J. Lee 11-7-12
DESIGN ENGINEER

DESIGN	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DETAILS	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON	LAYOUT	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON
QUANTITIES	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	SPECIFICATIONS	BY DAVE KLEIN	CHECKED PLANS AND SPECS COMPARED DAVE KLEIN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	ROUTE 96, 169 & 299 BRIDGES (PAINT STEEL)
VARIOUS	
POST MILE	GENERAL PLAN No. 3
VARIES	

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0100020283 1 CONTRACT NO.: 01-0A4501

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES					SHEET	OF
12-13-11	7-10-12	11-7-12			3	6

FILE => 01-0a4501_03gp3.dgn

USERNAME => s121511 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 06:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	10	12

T J Powell 11-7-12
REGISTERED CIVIL ENGINEER DATE

12/28/2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. POWELL No. C 61037 Exp. 12-31-14 CIVIL STATE OF CALIFORNIA

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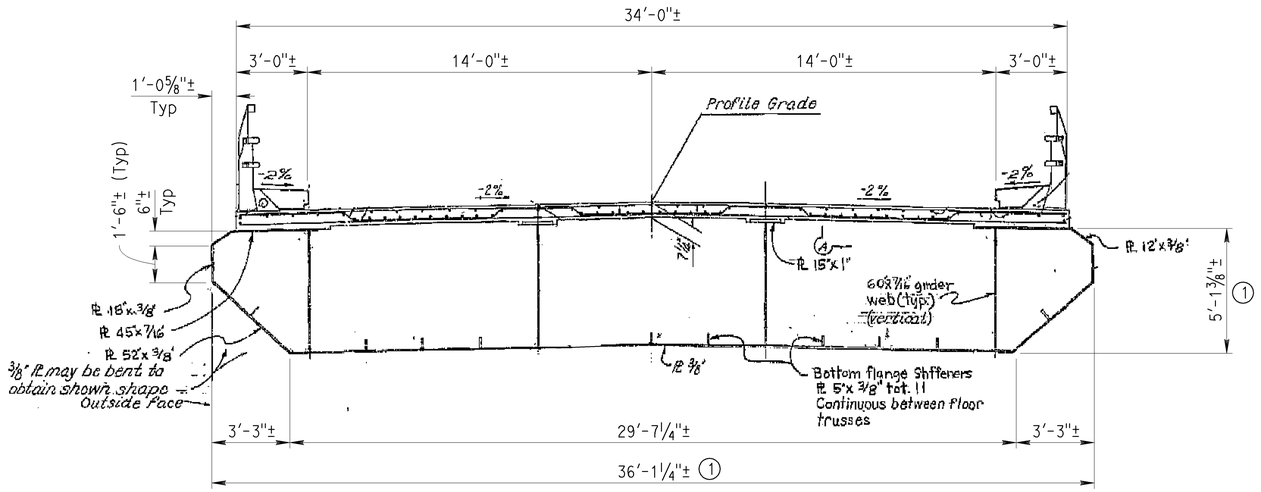
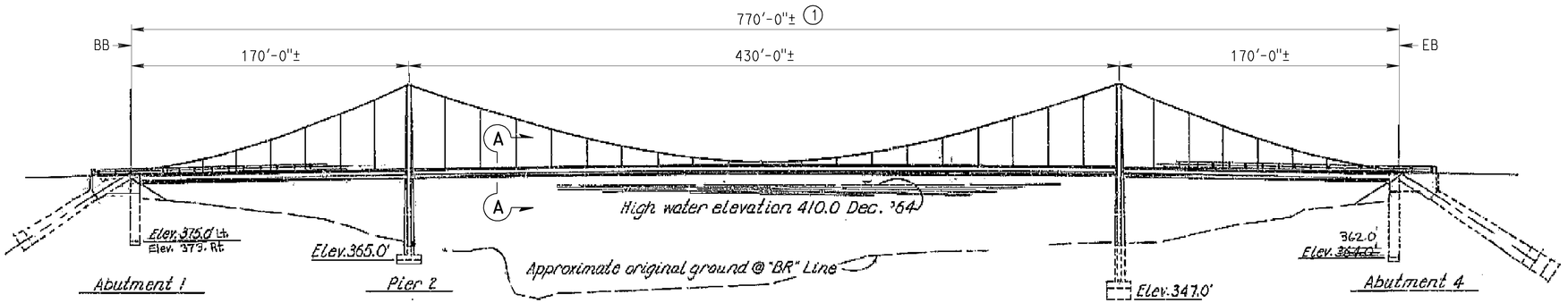
NOTES: (APPLY TO THIS SHEET ONLY)

(1) Indicates limits spot blast clean and paint undercoat, approximate surface area = 10% of exterior surface of existing welded steel box girder, and clean and paint existing welded steel box girder.

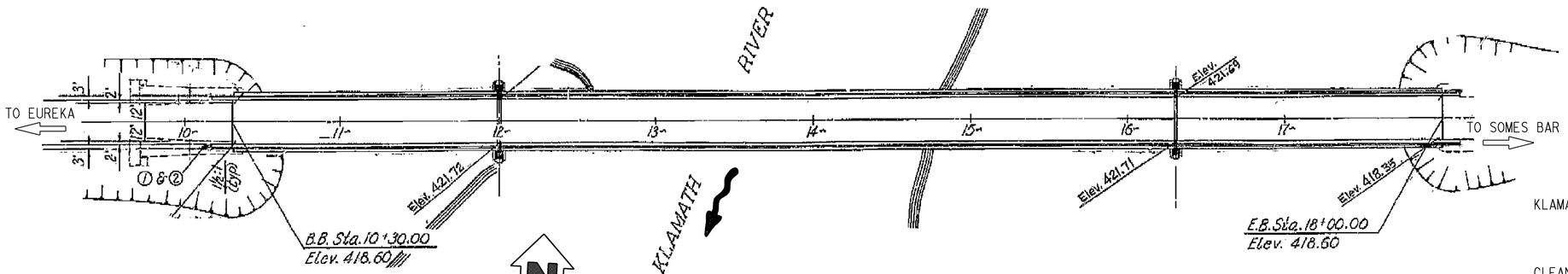
Except where noted otherwise, details shown on this sheet are from "as built" plans and are for information only.



SECTION A-A

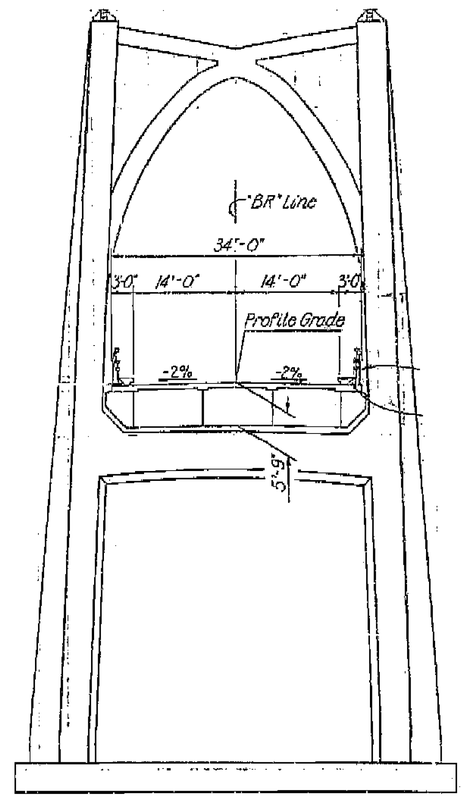


ELEVATION



KLAMATH RIVER - PLAN

Br No. 04-0069, ROUTE 96, PM R38.57
NO SCALE



TYPICAL SECTION AT PIERS

KLAMATH RIVER BRIDGE NO. 04-0069

QUANTITIES

CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	3,500 SQFT
WORK AREA MONITORING	LUMP SUM

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

Michael J. Lee 11-7-12
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	TIM POWELL	CHARLES HUTCHINSON			
DETAILS	GF BIDWELL	CHARLES HUTCHINSON	LAYOUT	GF BIDWELL	CHARLES HUTCHINSON
QUANTITIES	TIM POWELL	CHARLES HUTCHINSON	SPECIFICATIONS	DAVE KLEIN	DAVE KLEIN (PLANS AND SPECS COMPARED)

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 96, 169 & 299 BRIDGES (PAINT STEEL)

GENERAL PLAN No. 4

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0100020283 1 CONTRACT NO.: 01-0A4501

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES: 12-13-11, 7-10-12, 11-7-12

SHEET 4 OF 6

FILE => 01-0a4501_04gp4.dgn

USERNAME => s121511 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 06:11

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	11	12

T J Powell 11-7-12
REGISTERED CIVIL ENGINEER DATE

12/28/2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY J. POWELL
No. C 61037
Exp. 12-31-14
CIVIL
STATE OF CALIFORNIA

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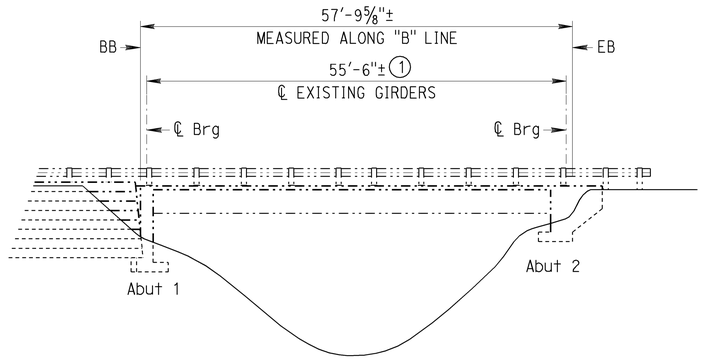
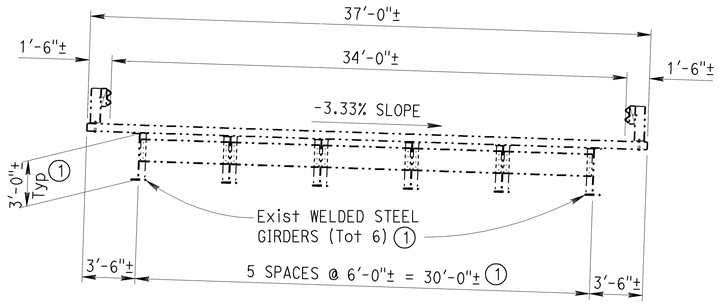
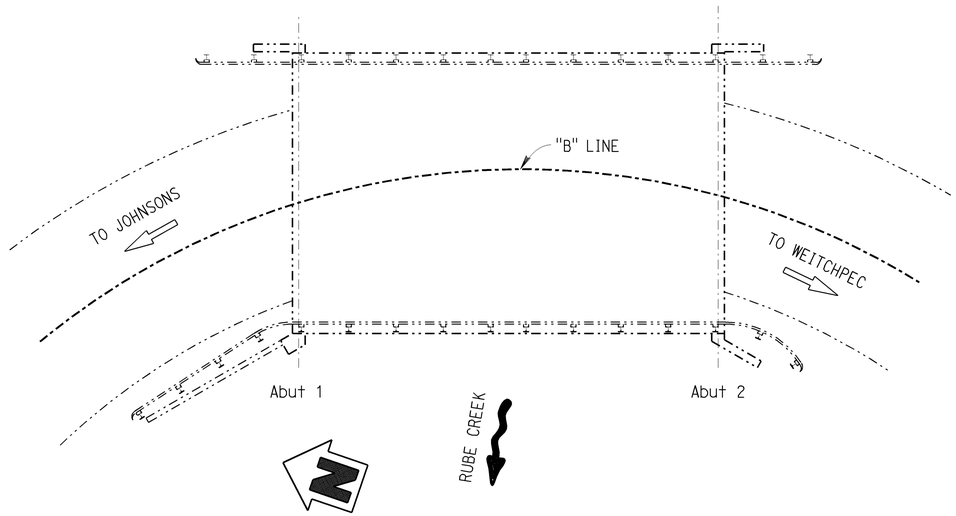


ELEVATION
1" = 10'



TYPICAL SECTION
1" = 5'



RUBE CREEK - PLAN
Br No. 04-0215, ROUTE 169, PM 27.57
1" = 10'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

NOTES: (APPLY TO THIS SHEET ONLY)

·····-·····- Indicates existing.

(1) Indicates limits spot blast clean and paint undercoat, approximate surface area = 10% of existing structural steel, and clean and paint existing structural steel.

RUBE CREEK BRIDGE NO. 04-0215

QUANTITIES

CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	400 SQFT
WORK AREA MONITORING	LUMP SUM

Michael J. Lee 11-7-12
DESIGN ENGINEER

	BY	CHECKED	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD	
DESIGN	TIM POWELL	CHARLES HUTCHINSON			
DETAILS	GF BIDWELL	CHARLES HUTCHINSON	LAYOUT	GF BIDWELL	CHARLES HUTCHINSON
QUANTITIES	TIM POWELL	CHARLES HUTCHINSON	SPECIFICATIONS	DAVE KLEIN	PLANS AND SPECS COMPARED DAVE KLEIN

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 96, 169 & 299 BRIDGES (PAINT STEEL)
GENERAL PLAN No. 5

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

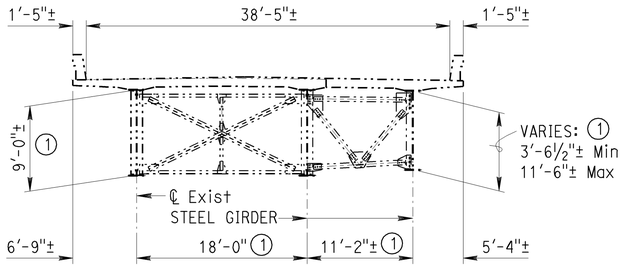
UNIT: 3488
PROJECT NUMBER & PHASE: 0100020283 1 CONTRACT NO.: 01-0A4501

DISREGARD PRINTS BEARING EARLIER REVISION DATES → REVISION DATES: 12-13-11 | 7-10-12 | 11-7-12

SHEET 5 OF 6

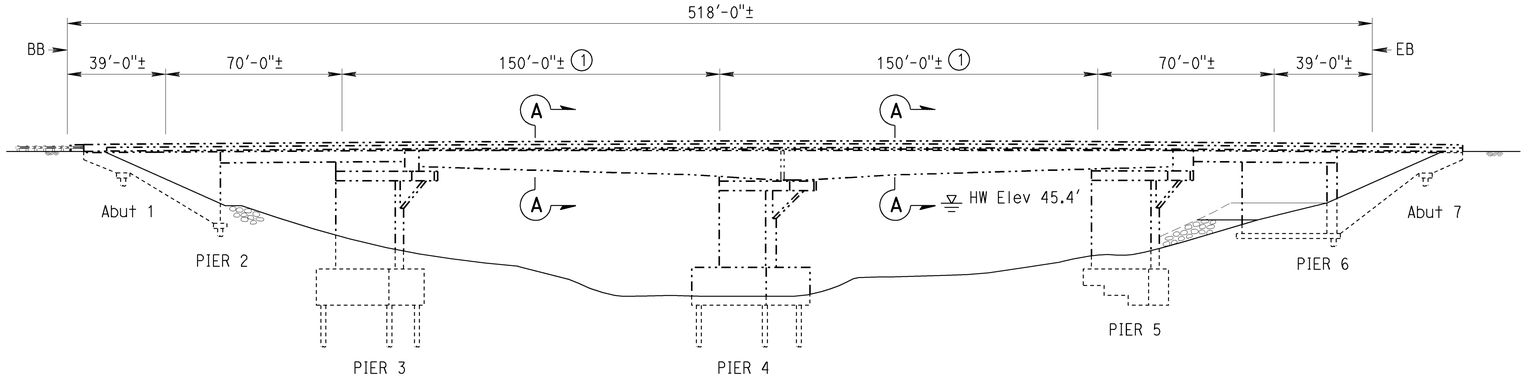
FILE => 01-0a4501_05gp5.dgn

USERNAME => s121511 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 06:11



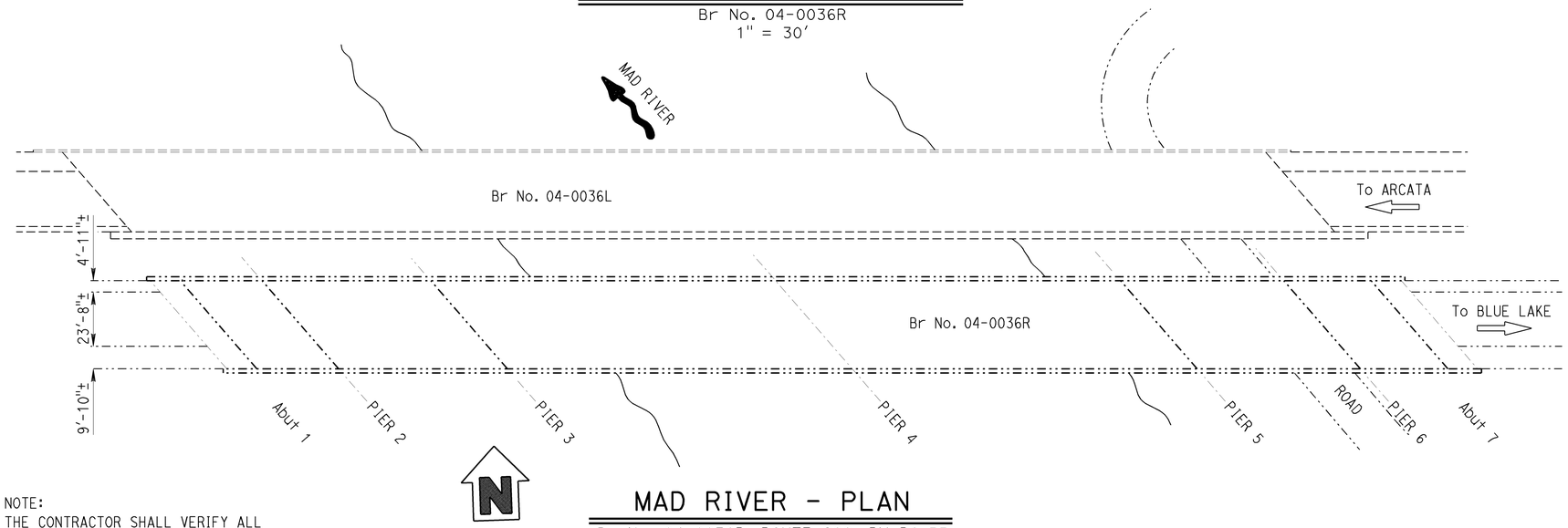
SECTION A-A

Br No. 04-0036R
⅛" = 1'



RIGHT BRIDGE ELEVATION

Br No. 04-0036R
1" = 30'



MAD RIVER - PLAN

Br No. 04-0036R, ROUTE 299, PM R1.55
1" = 30'

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
01	Hum	96, 169 299	Var	12	12

TJ Powell 11-7-12
REGISTERED CIVIL ENGINEER DATE

12/28/2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — TIMOTHY J. POWELL — No. C 61037 — Exp. 12-31-14 — CIVIL — STATE OF CALIFORNIA

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NOTES: (APPLY TO THIS SHEET ONLY)

····-·····- Indicates existing.

(1) Indicates limits spot blast clean and paint undercoat, approximate surface area = 10% of existing structural steel, and clean and paint existing structural steel.

MAD RIVER — BRIDGE NO. 04-0036R

QUANTITIES

CLEAN STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
PAINT STRUCTURAL STEEL (EXISTING BRIDGE)	LUMP SUM
SPOT BLAST CLEAN AND PAINT UNDERCOAT	2,003 SQFT
WORK AREA MONITORING	LUMP SUM

Michael J. Lee 11-7-12
DESIGN ENGINEER

DESIGN	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD			
DETAILS	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON	LAYOUT	BY GF BIDWELL	CHECKED CHARLES HUTCHINSON		
QUANTITIES	BY TIM POWELL	CHECKED CHARLES HUTCHINSON	SPECIFICATIONS	BY DAVE KLEIN	PLANS AND SPECS COMPARED DAVE KLEIN		

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. VARIOUS
POST MILE VARIES

ROUTE 96, 169 & 299 BRIDGES (PAINT STEEL)

GENERAL PLAN No. 6

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3488
PROJECT NUMBER & PHASE: 0100020283 1 CONTRACT NO.: 01-0A4501

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES					SHEET	OF
12-13-11	7-10-12	11-7-12			6	6

FILE => 01-0a4501_06gp6.dgn

USERNAME => s121511 DATE PLOTTED => 16-JAN-2013 TIME PLOTTED => 06:12