Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	1	59

NHPI-580-1(058)E

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ALAMEDA COUNTY
IN OAKLAND
AT ROUTE 80/580/880 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
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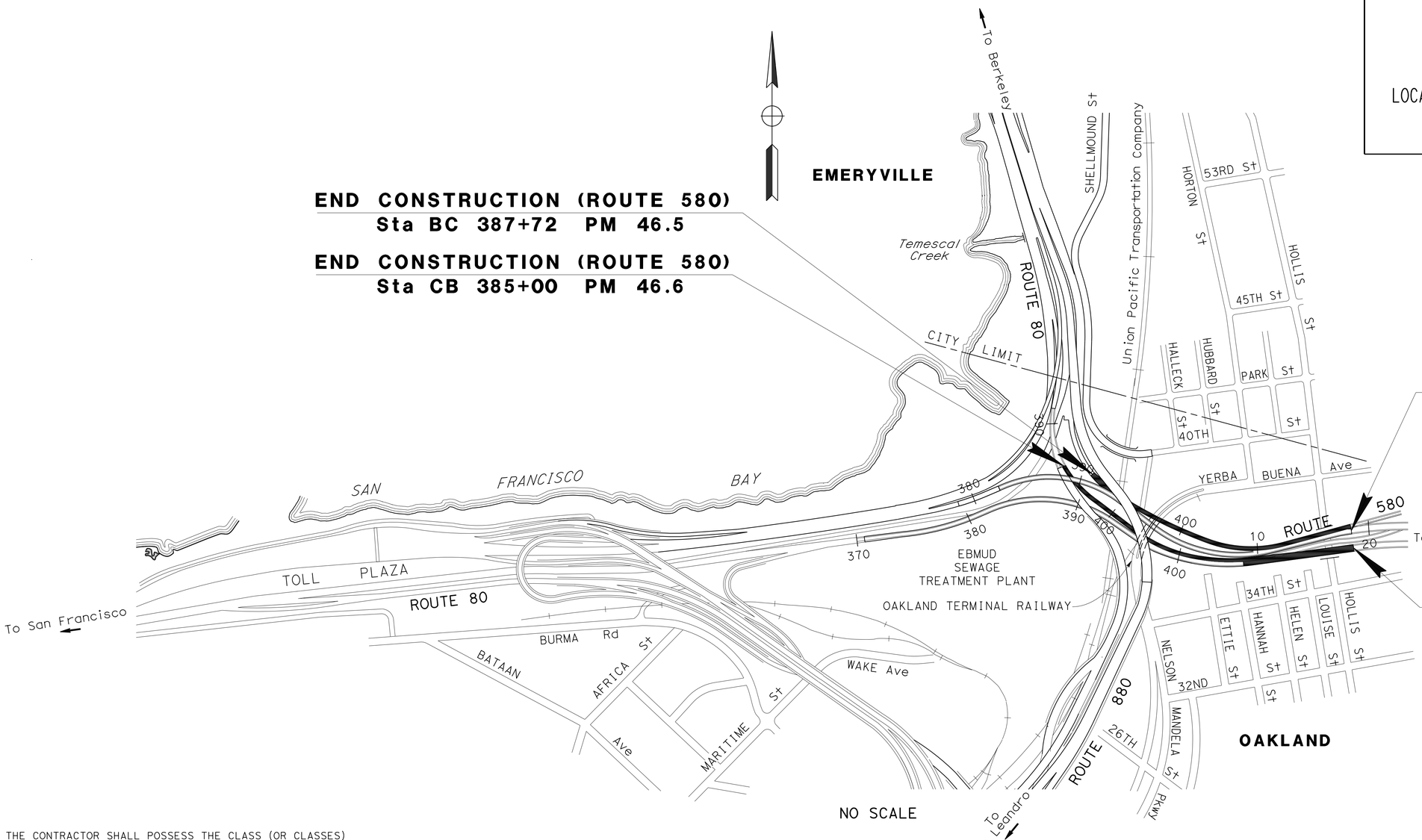
5-6	CONSTRUCTION DETAILS
7-10	UTILITY PLANS
11-19	CONSTRUCTION AREA SIGNS
20-29	STAGE CONSTRUCTION PLANS AND QUANTITIES
30-38	PAVEMENT DELINEATION PLANS, DETAILS AND QUANTITIES
39	SUMMARY OF QUANTITIES
40-46	REVISED STANDARD PLANS
STRUCTURE PLANS	
47-59	DISTRIBUTION STRUCTURE - DECK REHABILITATION (P-2)

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

LOCATION MAP



END CONSTRUCTION (ROUTE 580)
Sta BC 387+72 PM 46.5

END CONSTRUCTION (ROUTE 580)
Sta CB 385+00 PM 46.6

BEGIN CONSTRUCTION (ROUTE 580)
Sta BL 18+52.02 PM 46.0

BEGIN CONSTRUCTION (ROUTE 580)
Sta E 18+42 PM 46.0

3-26-13
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

June 17, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joe W. Buczek
No. 48864
Exp. 9-30-14
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.	04-1A6714
PROJECT ID	0412000346

PROJECT MANAGER: RON KIAAINA
DESIGN MANAGER: TONY WONG

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

LAST REVISION 03-27-13 DATE PLOTTED => 07-AUG-2013 TIME PLOTTED => 05:57

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	2	59

REGISTERED CIVIL ENGINEER DATE 3-26-13

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING ANY MATERIAL.

LAYOUT
SCALE: 1'' = 50'

L-1

JOE W. BUCZEK	JB	9/14/12
DEANNA TAN	REVISED BY	DATE REVISED
TONY WONG	CALCULATED-DESIGNED BY	
	CHECKED BY	
FUNCTIONAL SUPERVISOR		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 03-15-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	3	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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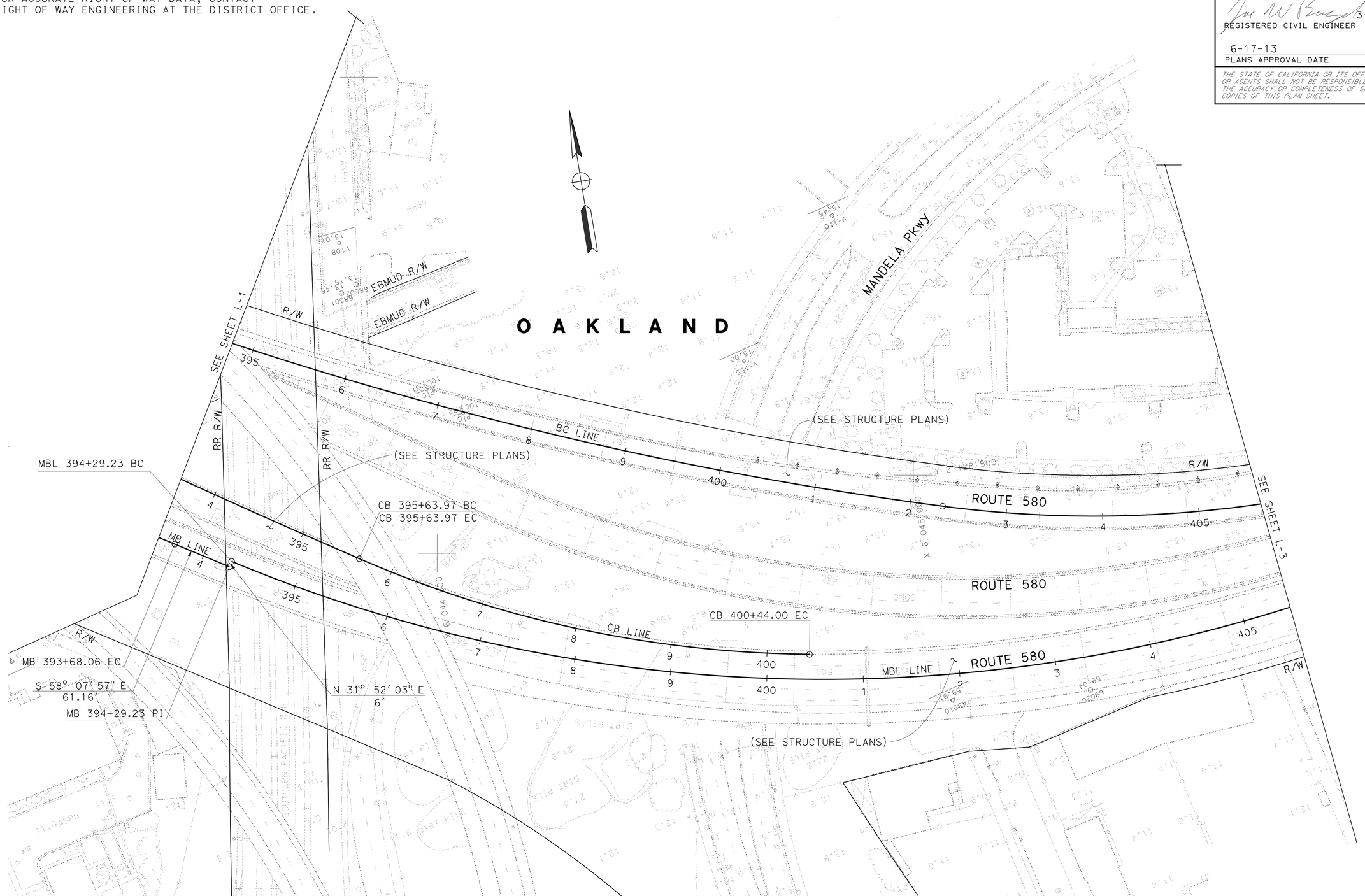

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1'' = 50'

L-2

JOE W. BUCZEK	REVISED BY
DEANNA TAN	DATE REVISED
	JB
	9/14/12
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
TONY WONG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 03-15-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	4	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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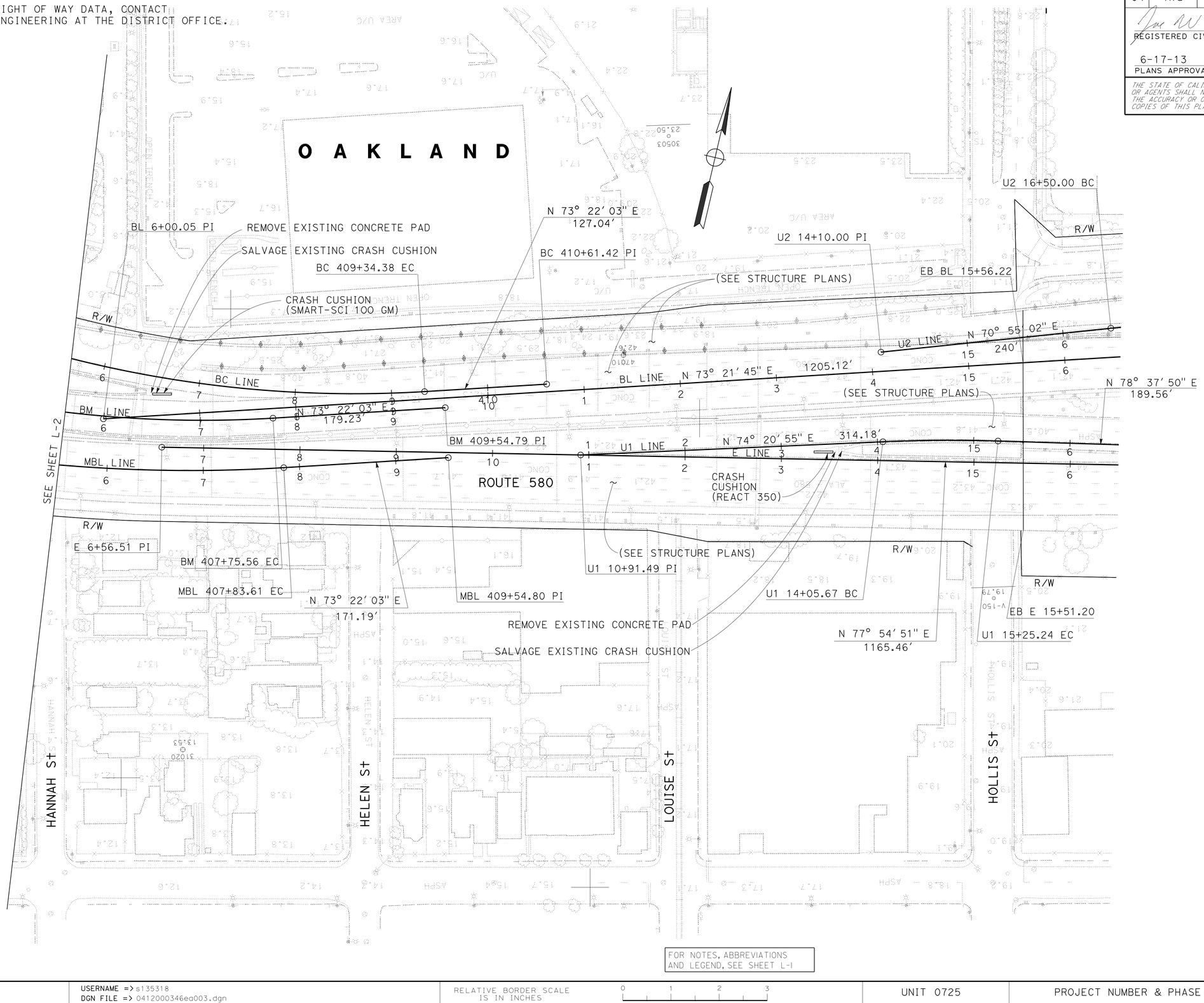

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET L-1

LAYOUT

SCALE: 1'' = 50'

L-3

JOE W. BUCZEK	JB
DEANNA TAN	9/14/12
CALCULATED-DESIGNED BY	REVISED BY
CHECKED BY	DATE REVISED
FUNCTIONAL SUPERVISOR	
TONY WONG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DESIGN

LAST REVISION 03-27-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 14:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	5	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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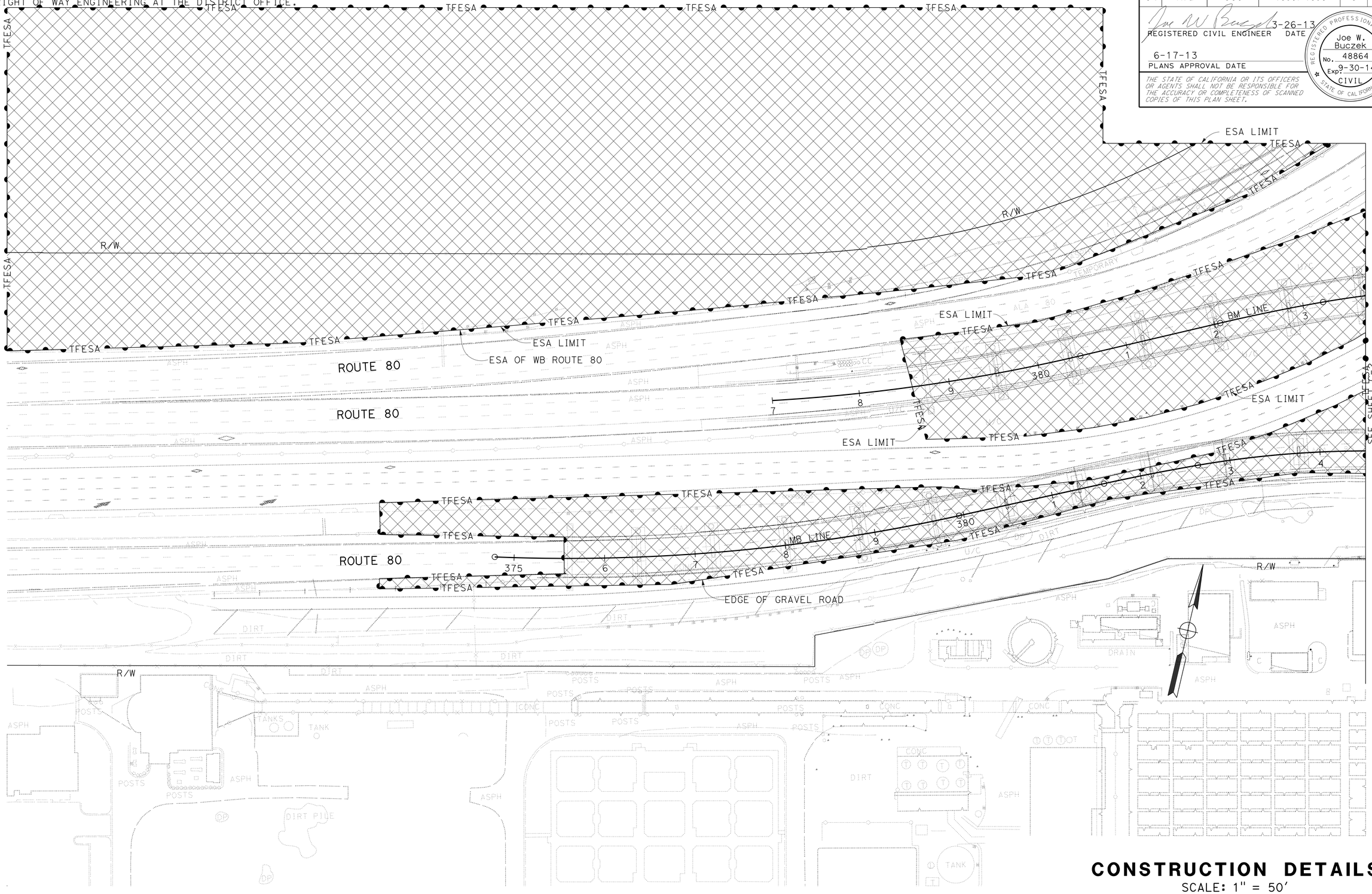
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING BRIDGE DECKS ARE NOT WITHIN THE ESA LIMITS.



CONSTRUCTION DETAILS

SCALE: 1" = 50'

C-1

REVISED BY	JB
DATE REVISED	1/22/13
CALCULATED-DESIGNED BY	JOE W. BUCZEK
CHECKED BY	DEANNA TAN
FUNCTIONAL SUPERVISOR	TONY WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 03-27-13 | DATE PLOTTED => 05-JUL-2013 | TIME PLOTTED => 07:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	6	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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2. EXISTING BRIDGE DECKS ARE NOT WITHIN THE ESA LIMITS.

CONSTRUCTION DETAILS

SCALE: 1" = 50'

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN	FUNCTIONAL SUPERVISOR: TONY WONG	CALCULATED-DESIGNED BY: JOE W. BUCZEK
Caltrans		CHECKED BY: DEANNA TAN	REVISED BY: JB
			DATE REVISED: 1/22/13

LAST REVISION 03-27-13 | DATE PLOTTED => 05-JUL-2013 | TIME PLOTTED => 07:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	7	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. ALL EXISTING UNDERGROUND UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
4. ALL EXISTING UTILITIES ARE UNDERGROUND UTILITIES UNLESS OTHERWISE NOTED OH.
5. ALL GAS LINES ARE STEEL PIPE UNLESS OTHERWISE NOTED.
6. ALL EXISTING STORM DRAINS ARE RCP OR CMP UNLESS OTHERWISE NOTED.
7. CONTACT UTILITY OWNER PRIOR TO CONSTRUCTION.
8. LOCATION OF UTILITY FACILITIES SHOWN ON THESE PLANS WERE OBTAINED FROM AS-BUILTS.
9. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING ANY MATERIAL.

LEGEND:

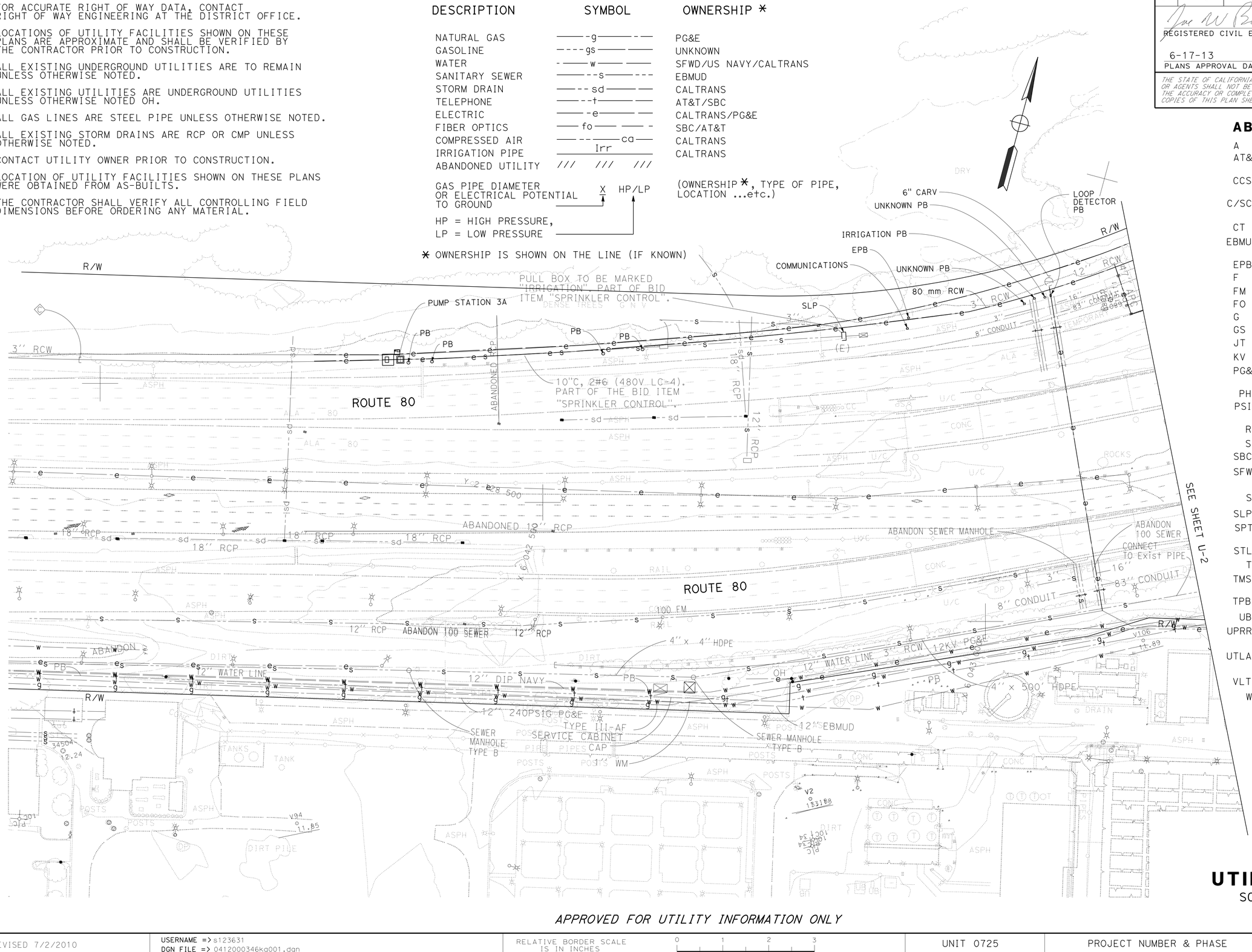
DESCRIPTION	SYMBOL	OWNERSHIP *
NATURAL GAS	—g—	PG&E
GASOLINE	—gs—	UNKNOWN
WATER	—w—	SFWD/US NAVY/CALTRANS
SANITARY SEWER	—s—	EBMUD
STORM DRAIN	—sd—	CALTRANS
TELEPHONE	—t—	AT&T/SBC
ELECTRIC	—e—	CALTRANS/PG&E
FIBER OPTICS	—fo—	SBC/AT&T
COMPRESSED AIR	—ca—	CALTRANS
IRRIGATION PIPE	—Irr—	CALTRANS
ABANDONED UTILITY	/// /// ///	

GAS PIPE DIAMETER OR ELECTRICAL POTENTIAL TO GROUND — X — HP/LP

HP = HIGH PRESSURE,
LP = LOW PRESSURE

(OWNERSHIP *, TYPE OF PIPE, LOCATION ...etc.)

* OWNERSHIP IS SHOWN ON THE LINE (IF KNOWN)



ABBREVIATIONS:

A	-	AIR
AT&T	-	AMERICAN TELEPHONE AND TELEGRAPH
CCSF	-	CITY AND COUNTY OF SAN FRANCISCO
C/SCP	-	CONCRETE STEEL CYLINDER PIPE
CT	-	CALTRANS
EBMUD	-	EAST BAY MUNICIPAL UTILITY DISTRICT
EPB	-	ELECTRICAL PULL BOX
F	-	FIRE ALARM SYSTEM
FM	-	FORCEMAIN
FO	-	FIBER OPTICS
G	-	GAS
GS	-	GASOLINE
JT	-	JOINT TRENCH
KV	-	KILO VOLTAGE
PG&E	-	PACIFIC GAS AND ELECTRIC COMPANY
PH	-	POTHOLE
PSIG	-	POUND PER SQUARE INCH GAUGE
R	-	RISER
S	-	SANITARY SEWER
SBC	-	SOUTHERN BELL COMPANY
SFWD	-	SAN FRANCISCO WATER DEPARTMENT
SL	-	STREET LIGHT
SLP	-	STREET LIGHT PULL BOX
SPTC	-	SOUTHERN PACIFIC TRANSPORTATION COMPANY
STL	-	STEEL
T	-	TELEPHONE
TMS	-	TRAFFIC MONITORING SYSTEM
TPB	-	TELEPHONE PULL BOX
UB	-	UTILITY BOX
UPRR	-	UNION PACIFIC RAILROAD
UTLA	-	UTILITY APPURTENANCE
VLT	-	UTILITY VAULT
W	-	WATER

UTILITY PLAN

SCALE: 1" = 50'

APPROVED FOR UTILITY INFORMATION ONLY

U-1

REVISED BY	DATE REVISED
JB	9/14/12

JOE W. BUCZEK — DEANNA TAN — CALCULATED-DESIGNED BY — CHECKED BY — FUNCTIONAL SUPERVISOR: TONY WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans — DESIGN

LAST REVISION 03-27-13 — DATE PLOTTED => 21-JUN-2013 — TIME PLOTTED => 13:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	8	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

APPROVED FOR UTILITY INFORMATION ONLY

UTILITY PLAN

SCALE: 1" = 50'

U-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **DESIGN**

FUNCTIONAL SUPERVISOR: TONY WONG

CALCULATED-DESIGNED BY: JOE W. BUCZEK

CHECKED BY: DEANNA TAN

REVISED BY: JB

DATE REVISED: 9/14/12

LAST REVISION 03-27-13

DATE PLOTTED => 21-JUN-2013

TIME PLOTTED => 13:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	9	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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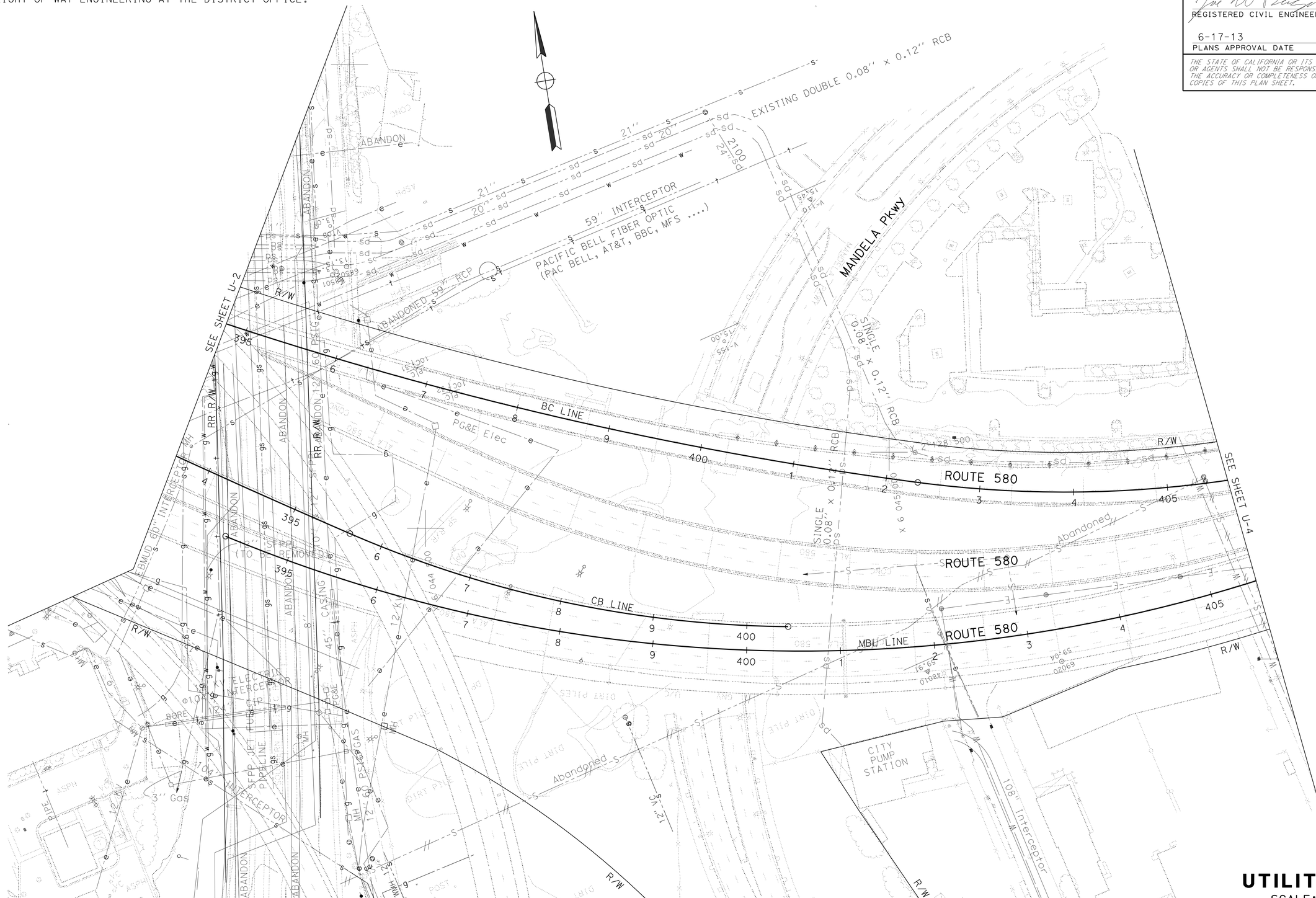

APPROVED FOR UTILITY INFORMATION ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

UTILITY PLAN

SCALE: 1" = 50'

U-3

JOE W. BUCZEK	REVISED BY JB
DEANNA TAN	DATE REVISED 9/14/12
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
TONY WONG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 03-27-13 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 13:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	10	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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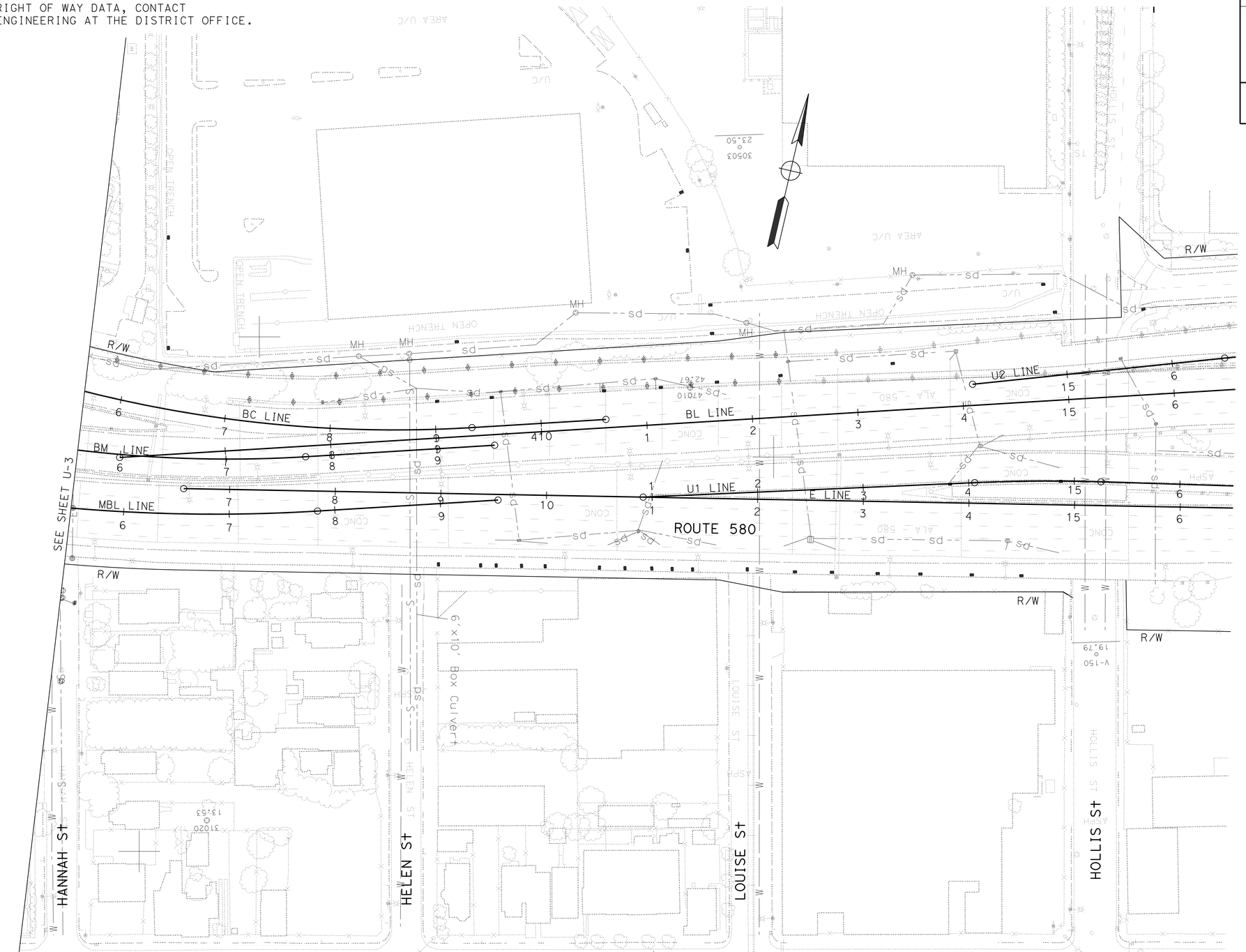


APPROVED FOR UTILITY INFORMATION ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET U-1

UTILITY PLAN

SCALE: 1" = 50'

U-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG

CALCULATED-DESIGNED BY: JOE W. BUCZEK

CHECKED BY: DEANNA TAN

REVISED BY: JB

DATE REVISED: 9/14/12

LAST REVISION 03-27-13

DATE PLOTTED => 21-JUN-2013

TIME PLOTTED => 13:16

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	11	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

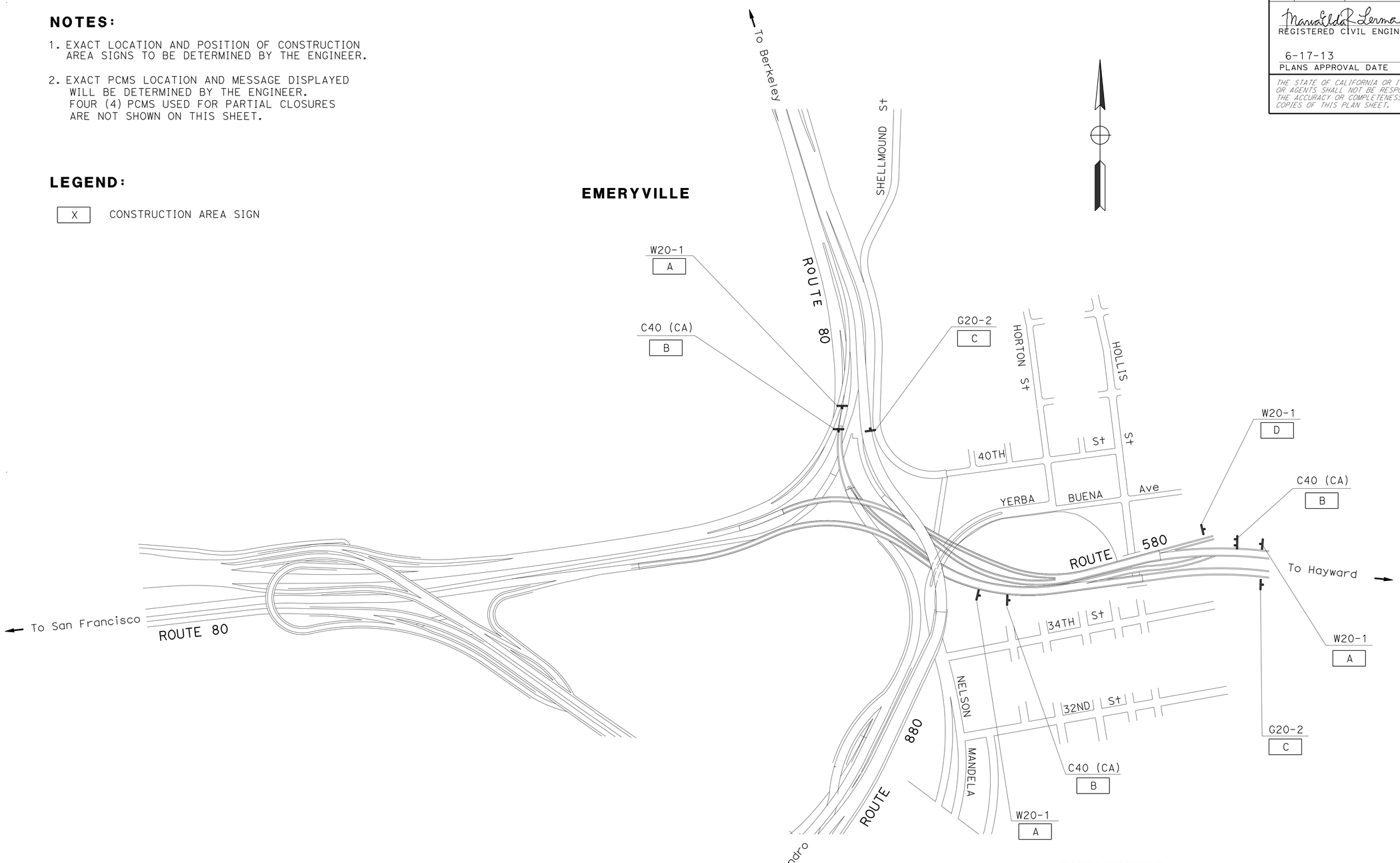
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.
2. EXACT PCMS LOCATION AND MESSAGE DISPLAYED WILL BE DETERMINED BY THE ENGINEER. FOUR (4) PCMS USED FOR PARTIAL CLOSURES ARE NOT SHOWN ON THIS SHEET.

LEGEND:

[X] CONSTRUCTION AREA SIGN



CONSTRUCTION AREA SIGNS

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

REVISED BY	DATE REVISED
ML	5/13/13

MARIA LERMA — LOURDES DAVID
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-13-13
DATE PLOTTED => 21-JUN-2013
TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	12	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Maria Elda R. Lerma No. 75486 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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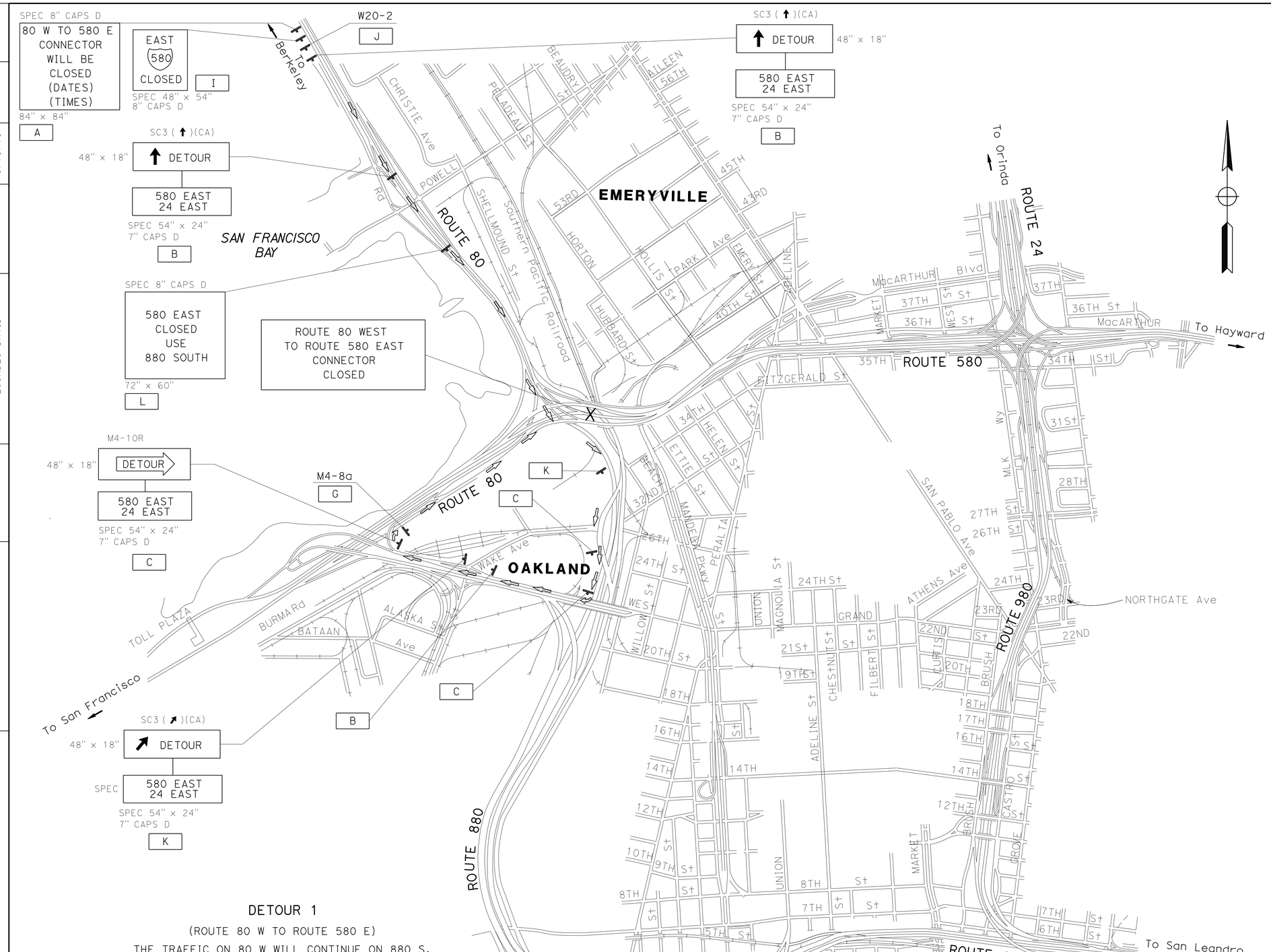

DETOUR 1

(ROUTE 80 W TO ROUTE 580 E)

THE TRAFFIC ON 80 W WILL CONTINUE ON 880 S, EXIT AT WEST GRAND Ave OFF-RAMP, TURN RIGHT ON WEST GRAND Ave AND MERGE TO 580 E MARITIME/WEST GRAND ON-RAMP.

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CONSTRUCTION AREA SIGNS
STAGE 1
NO SCALE

CS-2

ML	5/13/13
REVISED BY	DATE REVISED
MARIA LERMA	LOURDES DAVID
CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-13-13
DATE PLOTTED => 21-JUN-2013
TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	13	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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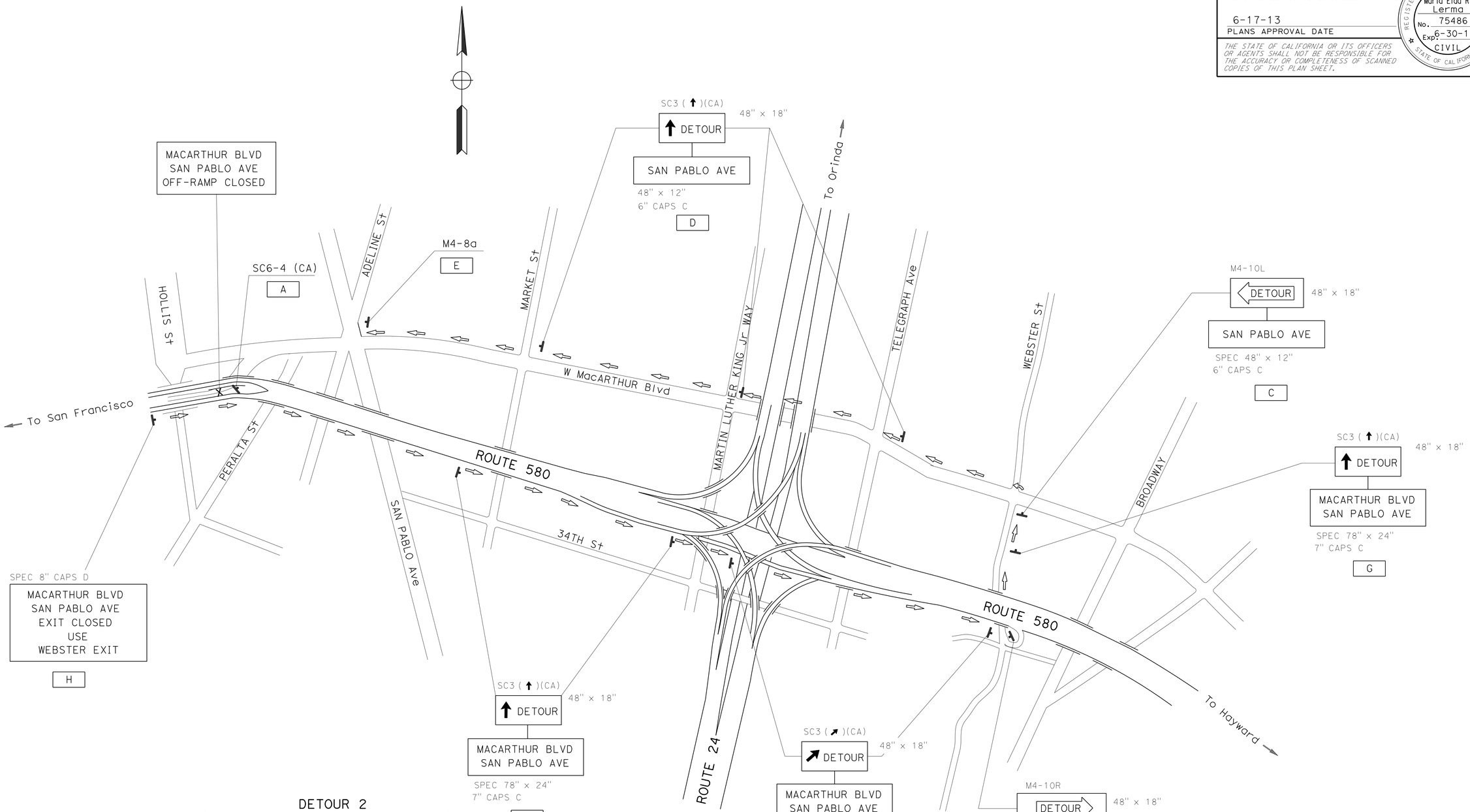

DETOUR 2
(580 EAST MacARTHUR OFF-RAMP TRAFFIC)
EXIT ON WEBSTER St, RIGHT ON WEBSTER St
AND LEFT ON MacARTHUR Blvd

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
STAGE 1
NO SCALE

CS-3

REVISED BY	DATE REVISED
ML	5/13/13

MARIA LERMA — CALCULATED-DESIGNED BY
LOURDES DAVID — CHECKED BY
FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-15-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	14	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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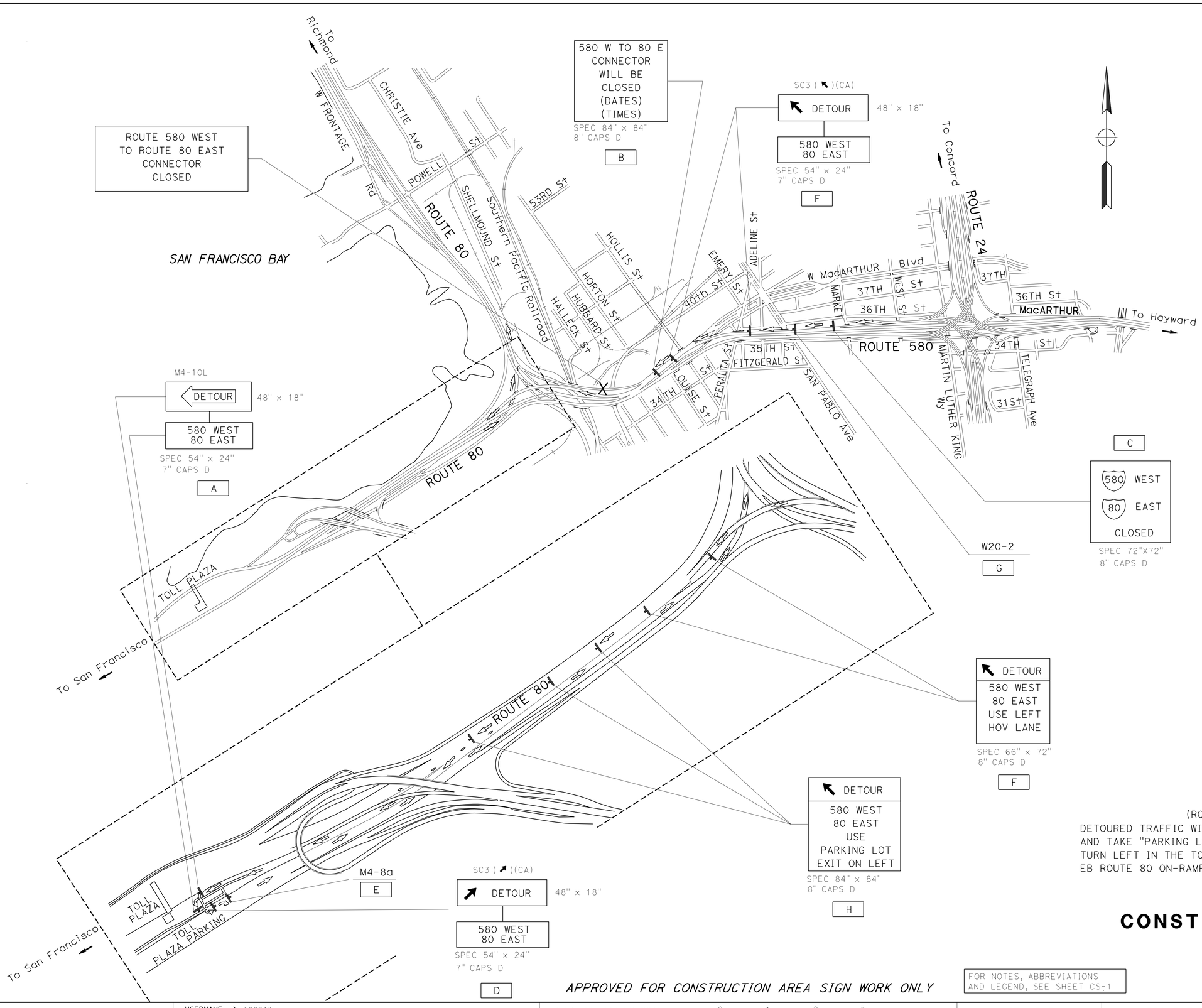

DETOUR 3

(ROUTE 580 W TO ROUTE 80 E)

DETOURED TRAFFIC WILL PROCEED TO THE 580 W / 80 W CONNECTOR AND TAKE "PARKING LOT EXIT ONLY" EXIT ON THE LEFT, TURN LEFT IN THE TOLL PLAZA PARKING LOT AND CONTINUE TO EB ROUTE 80 ON-RAMP.

CONSTRUCTION AREA SIGNS
STAGE 2

NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CS-4

REVISED BY	ML
DATE REVISED	5/13/13
CALCULATED-DESIGNED BY	MARIA LERMA
CHECKED BY	LOURDES DAVID
FUNCTIONAL SUPERVISOR	LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-16-13
DATE PLOTTED => 21-JUN-2013
TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	15	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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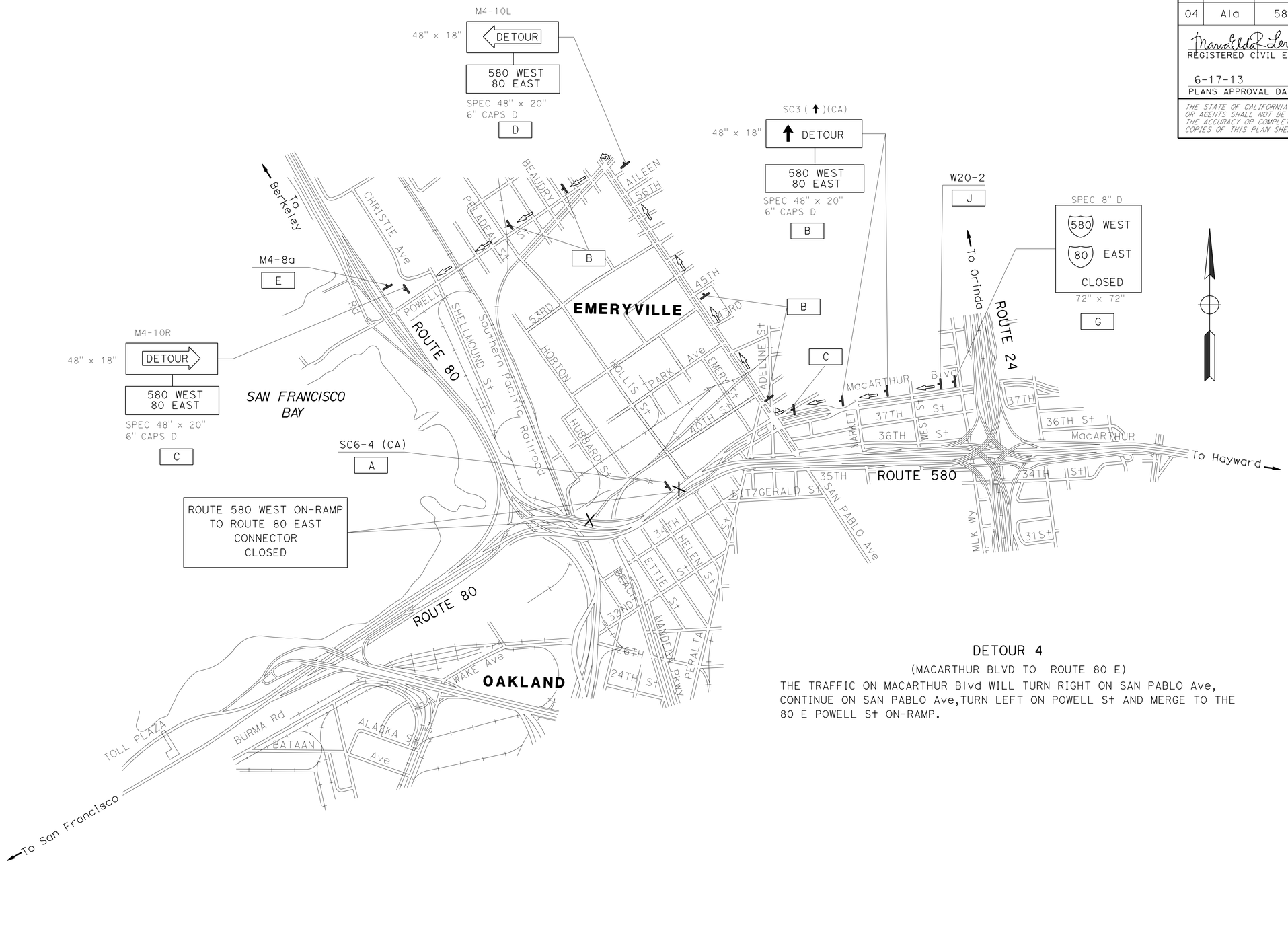

DETOUR 4

(MACARTHUR BLVD TO ROUTE 80 E)

THE TRAFFIC ON MACARTHUR Blvd WILL TURN RIGHT ON SAN PABLO Ave, CONTINUE ON SAN PABLO Ave,TURN LEFT ON POWELL St AND MERGE TO THE 80 E POWELL St ON-RAMP.

CONSTRUCTION AREA SIGNS
STAGE 2
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CS-5

REVISED BY	ML
DATE REVISED	5/13/13
CALCULATED-DESIGNED BY	MARIA LERMA
CHECKED BY	LOURDES DAVID
FUNCTIONAL SUPERVISOR	LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-15-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	16	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
CIVIL
STATE OF CALIFORNIA

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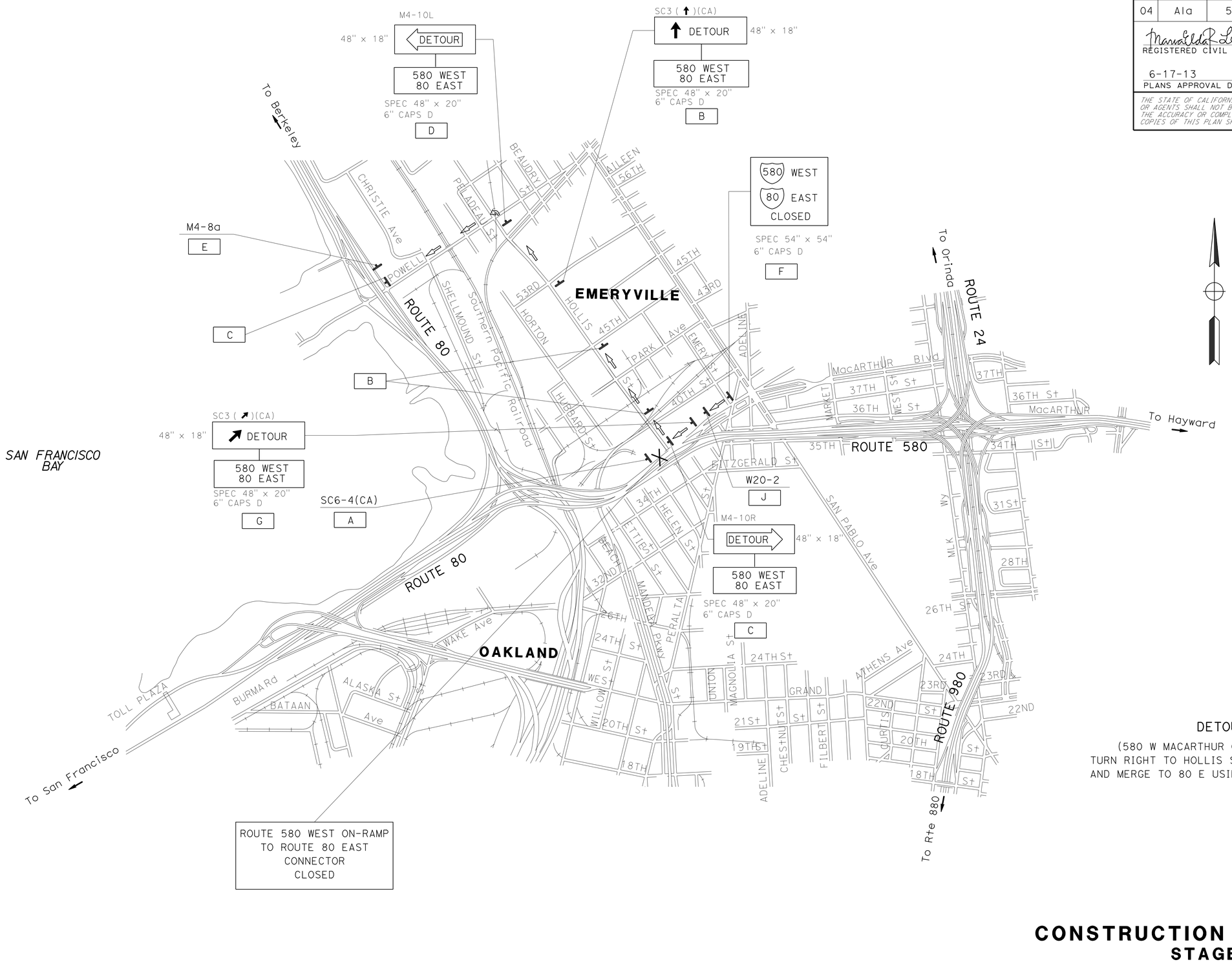


ROUTE 580 WEST ON-RAMP
TO ROUTE 80 EAST
CONNECTOR
CLOSED

DETOUR 5

(580 W MACARTHUR ON-RAMP TRAFFIC)
TURN RIGHT TO HOLLIS St, LEFT TO POWELL St
AND MERGE TO 80 E USING POWELL St ON-RAMP.

CONSTRUCTION AREA SIGNS
STAGE 2
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

CS-6

REVISED BY	ML
DATE REVISED	5/13/13
MARIA LERMA	
LOURDES DAVID	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-16-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 13:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	17	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SHEET No.	SIGN No. X	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE INCHES x INCHES	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
CS-1	A	W20-1		48 x 48	ROAD WORK AHEAD	(ONE) 4" x 6"	3
	B		C40 (CA)	108 x 42	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	(TWO) 4" x 6"	3
	C	G20-2		48 x 24	END ROAD WORK	(ONE) 4" x 4"	2
	D	W20-1		36 x 36	ROAD WORK AHEAD	(ONE) 4" x 6"	1
CS-2	A		SPECIAL	84 x 84	80 W TO 580 E CONNECTOR WILL BE CLOSED (DATES) (TIMES)	(TWO) 6" x 6"	1
	B		SC3 (↑) (CA)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) 4" x 6"	3
			SPECIAL	54 x 24	580 EAST 24 EAST		
	C	M4-10R		48 x 18	DETOUR (INSIDE ARROW)(RIGHT)	(ONE) 4" x 6"	3
			SPECIAL	54 x 24	580 EAST 24 EAST		
	G	M4-8a		24 x 18	END DETOUR	(ONE) 4" x 4"	1
	I		SPECIAL	48 x 54	EAST 580 CLOSED	(ONE) 4" x 6"	1
	J	W20-2		48 x 48	DETOUR AHEAD	(ONE) 4" x 6"	1
	K		SC3 (↗) (CA)	48 x 18	DETOUR (UP RIGHT AHEAD ARROW)	(ONE) 4" x 6"	2
			SPECIAL	54 x 24	580 EAST 24 EAST		
	L		SPECIAL	72 x 60	580 EAST CLOSED USE 880 SOUTH	(TWO) 4" x 6"	1

CONSTRUCTION AREA SIGNS
NO SCALE

CS-7

REVISED BY	DATE REVISED
ML	5/13/13

CALCULATED-DESIGNED BY: MARIA LERMA
CHECKED BY: LOURDES DAVID
FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-16-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	18	59

REGISTERED CIVIL ENGINEER 5-16-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Maria Elda R. Lerma No. 75486 Exp. 6-30-14 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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (Cont.)

SHEET No.	SIGN No. X	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE INCHES x INCHES	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
CS-3	A		SC6-4 (CA)	48 x 60	RAMP CLOSURE NOTICE	(ONE) 6" x 6"	1
	B		SC3 (↗) (CA)	48 x 18	DETOUR (UPRIGHT AHEAD ARROW)	(TWO) 4" x 6"	2
			SPECIAL	78 x 24	MACARTHUR BLVD SAN PABLO AVE		
	C	M4-10L		48 x 18	DETOUR (INSIDE ARROW) (LEFT)	(ONE) 4" x 6"	1
			SPECIAL	48 x 12	SAN PABLO AVE		
	D		SC3 (↑) (CA)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) 4" x 6"	2
			SPECIAL	48 x 12	SAN PABLO AVE		
	E	M4-8a		24 x 18	END DETOUR	(ONE) 4" x 4"	1
	F	M4-10R		48 x 18	DETOUR (INSIDE ARROW)(RIGHT)	(TWO) 4" x 6"	1
			SPECIAL	78 x 24	MACARTHUR BLVD SAN PABLO AVE		
	G		SC3 (↑) (CA)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(TWO) 4" x 6"	3
			SPECIAL	78 x 24	MACARTHUR BLVD SAN PABLO AVE		
	H		SPECIAL	108 x 72	MACARTHUR BLVD SAN PABLO AVE EXIT CLOSED USE WEBSTER EXIT	(TWO) 6" x 6"	1
CS-4	A	M4-10L		48 x 18	DETOUR (INSIDE ARROW)(LEFT)	(ONE) 4" x 6"	2
			SPECIAL	54 x 24	580 WEST 80 EAST		
	B		SPECIAL	84 x 84	580 W TO 80 E CONNECTOR WILL BE CLOSED (DATES) (TIMES)	(TWO) 6" x 6"	1
	C		SPECIAL	72 x 72	580 WEST 80 EAST CLOSED	(TWO) 6" x 6"	1
	D		SC3 (↗) (CA)	48 x 18	DETOUR (UP RIGHT AHEAD ARROW)	(ONE) 4" x 6"	1
			SPECIAL	54 x 24	580 WEST 80 EAST		
	E	M4-8a		24 x 18	END DETOUR	(ONE) 4" x 4"	1
	F		SPECIAL	66 x 72	↖ DETOUR 580 WEST 80 EAST USE LEFT HOV LANE	(TWO) 4" x 6"	2
	G	W20-2		48 x 48	DETOUR AHEAD	(ONE) 4" x 6"	1
	H		SPECIAL	84 x 84	↖ DETOUR 580 WEST 80 EAST USE PARKING LOT EXIT ON LEFT	(TWO) 6" x 6"	3

CONSTRUCTION AREA SIGNS
NO SCALE

CS-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

REVISED BY	DATE REVISED
ML	5/13/13

CALCULATED-DESIGNED BY: MARIA LERMA
CHECKED BY: LOURDES DAVID
FUNCTIONAL SUPERVISOR: LOURDES DAVID

LAST REVISION 05-16-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	19	59

Maria Elda R. Lerma 5-16-13
REGISTERED CIVIL ENGINEER DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Maria Elda R. Lerma
No. 75486
Exp. 6-30-14
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.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS (Cont.)

SHEET No.	SIGN No. X	SIGN CODE FEDERAL	SIGN CODE CALIFORNIA	PANEL SIZE INCHES x INCHES	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
CS-5	A		SC6-4 (CA)	48 x 60	RAMP CLOSURE NOTICE	(ONE) 6" x 6"	1
	B		SC3 (↑) (CA)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) 4" x 6"	6
			SPECIAL	48 x 20	580 WEST 80 EAST		
	C	M4-10R		48 x 18	DETOUR (INSIDE ARROW)(RIGHT)	(ONE) 4" x 6"	2
			SPECIAL	48 x 20	580 WEST 80 EAST		
	D	M4-10L		48 x 18	DETOUR (INSIDE ARROW)(LEFT)	(ONE) 4" x 6"	1
			SPECIAL	48 x 20	580 WEST 80 EAST		
	E	M4-8a		24 x 18	END DETOUR	(ONE) 4" x 4"	1
	G		SPECIAL	72 x 72	580 WEST 80 EAST CLOSED	(TWO) 6" x 6"	1
	J	W20-2		48 x 48	DETOUR AHEAD	(ONE) 4" x 6"	1
CS-6	A		SC6-4 (CA)	48 x 60	RAMP CLOSURE NOTICE	(ONE) 6" x 6"	1
	B		SC3 (↑) (CA)	48 x 18	DETOUR (STRAIGHT AHEAD ARROW)	(ONE) 4" x 6"	3
			SPECIAL	48 x 20	580 WEST 80 EAST		
	C	M4-10R		48 x 18	DETOUR (INSIDE ARROW)(RIGHT)	(ONE) 4" x 6"	2
			SPECIAL	48 x 20	580 WEST 80 EAST		
	D	M4-10L		48 x 18	DETOUR (INSIDE ARROW)(LEFT)	(ONE) 4" x 6"	1
			SPECIAL	48 x 20	580 WEST 80 EAST		
	E	M4-8a		24 x 18	END DETOUR	(ONE) 4" x 4"	1
	F		SPECIAL	54 x 54	580 WEST 80 EAST CLOSED	(TWO) 4" x 6"	1
	G		SC3 (↗) (CA)	48 x 18	DETOUR (UP RIGHT AHEAD ARROW)	(ONE) 4" x 6"	1
			SPECIAL	48 x 20	580 WEST 80 EAST		
	J	W20-2		48 x 48	DETOUR AHEAD	(ONE) 4" x 6"	1

CONSTRUCTION AREA SIGNS
NO SCALE

CS-9

REVISED BY	DATE REVISED
ML	5/13/13

CALCULATED-DESIGNED BY	CHECKED BY
MARIA LERMA	LOURDES DAVID

FUNCTIONAL SUPERVISOR: LOURDES DAVID

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 05-16-13 | DATE PLOTTED => 05-JUL-2013 | TIME PLOTTED => 07:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	20	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

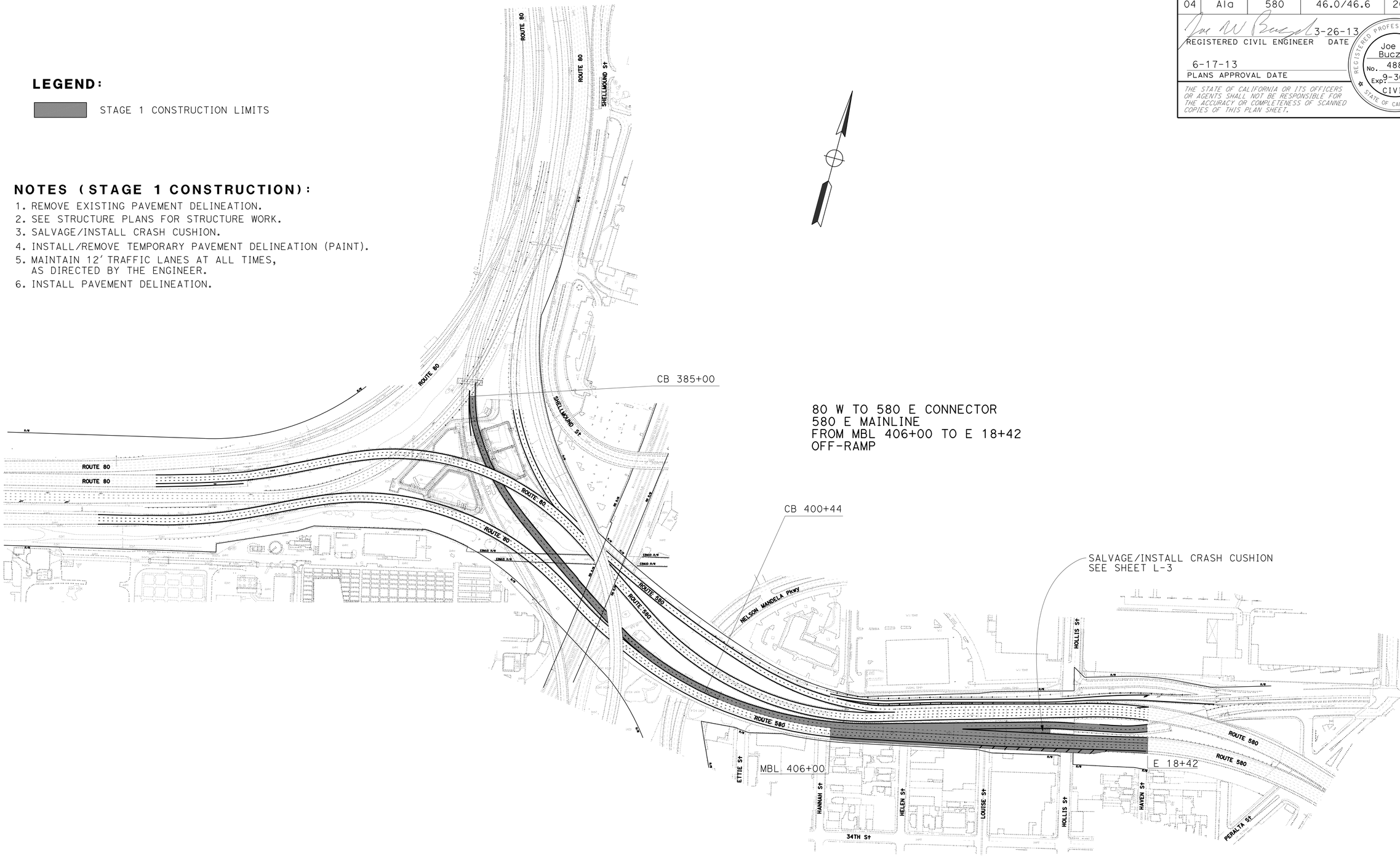
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

STAGE 1 CONSTRUCTION LIMITS

NOTES (STAGE 1 CONSTRUCTION):

1. REMOVE EXISTING PAVEMENT DELINEATION.
2. SEE STRUCTURE PLANS FOR STRUCTURE WORK.
3. SALVAGE/INSTALL CRASH CUSHION.
4. INSTALL/REMOVE TEMPORARY PAVEMENT DELINEATION (PAINT).
5. MAINTAIN 12' TRAFFIC LANES AT ALL TIMES, AS DIRECTED BY THE ENGINEER.
6. INSTALL PAVEMENT DELINEATION.



80 W TO 580 E CONNECTOR
580 E MAINLINE
FROM MBL 406+00 TO E 18+42
OFF-RAMP

STAGE CONSTRUCTION PLAN
STAGE 1
NO SCALE

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

SC-1

JOE W. BUCZEK	JB
DEANNA TAN	9/14/12
CALCULATED-DESIGNED BY	REVISED BY
CHECKED BY	DATE REVISED
FUNCTIONAL SUPERVISOR	
TONY WONG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 05-20-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	21	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

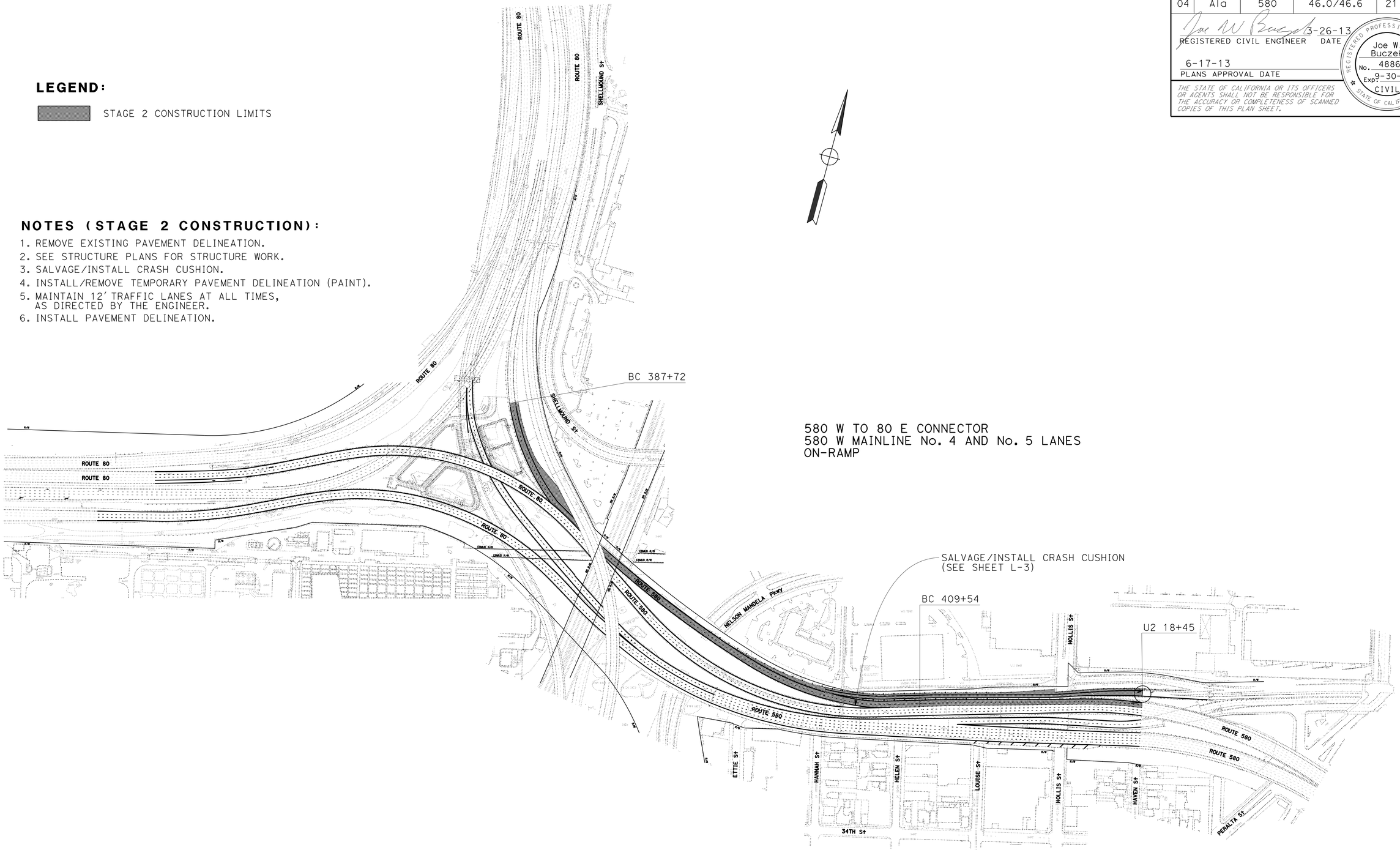
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND:

STAGE 2 CONSTRUCTION LIMITS

NOTES (STAGE 2 CONSTRUCTION):

1. REMOVE EXISTING PAVEMENT DELINEATION.
2. SEE STRUCTURE PLANS FOR STRUCTURE WORK.
3. SALVAGE/INSTALL CRASH CUSHION.
4. INSTALL/REMOVE TEMPORARY PAVEMENT DELINEATION (PAINT).
5. MAINTAIN 12' TRAFFIC LANES AT ALL TIMES, AS DIRECTED BY THE ENGINEER.
6. INSTALL PAVEMENT DELINEATION.



580 W TO 80 E CONNECTOR
580 W MAINLINE No. 4 AND No. 5 LANES
ON-RAMP

STAGE CONSTRUCTION PLAN
STAGE 2
NO SCALE

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

SC-2

CALCULATED-DESIGNED BY	CHECKED BY	REVISED BY	DATE REVISED
JOE W. BUCZEK	DEANNA TAN	JB	9/14/12

FUNCTIONAL SUPERVISOR: TONY WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 05-20-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	22	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

NOTE:

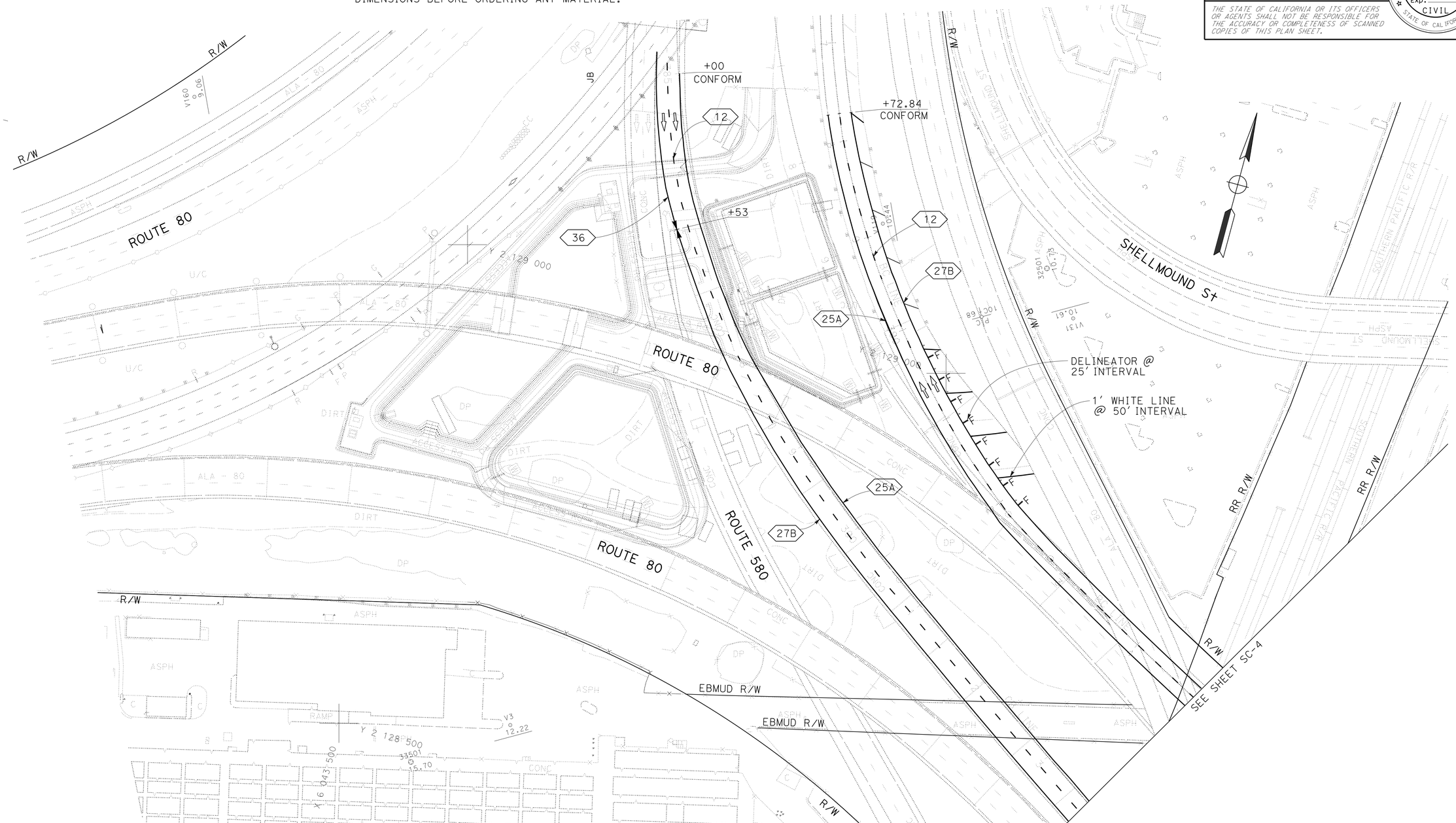
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES:

1. ALL LANES ARE 12' WIDE UNLESS OTHERWISE NOTED.
2. ALL ALIGNMENTS ARE FOR PAVEMENT DELINEATION USE ONLY.
3. ALL PAVEMENT DELINEATION SHALL BE PLACED ON THE SAME ALIGNMENT AND LOCATION AS EXISTING PAVEMENT DELINEATION.
4. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING ANY MATERIAL.

LEGEND:

No.	PAVEMENT DELINEATION DETAIL NUMBER
	CHANGE OF PAVEMENT DELINEATION DETAILS
F	TYPE F DELINEATOR



STAGE CONSTRUCTION PLAN

SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

SC-3

REVISED BY	JB
DATE REVISED	9/14/12
CALCULATED-DESIGNED BY	JOE W. BUCZEK
CHECKED BY	DEANNA TAN
FUNCTIONAL SUPERVISOR	TONY WONG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 05-15-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	23	59

REGISTERED CIVIL ENGINEER DATE 3-26-13

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Joe W. Buczek
No. 48864
Exp. 9-30-14
CIVIL
STATE OF CALIFORNIA

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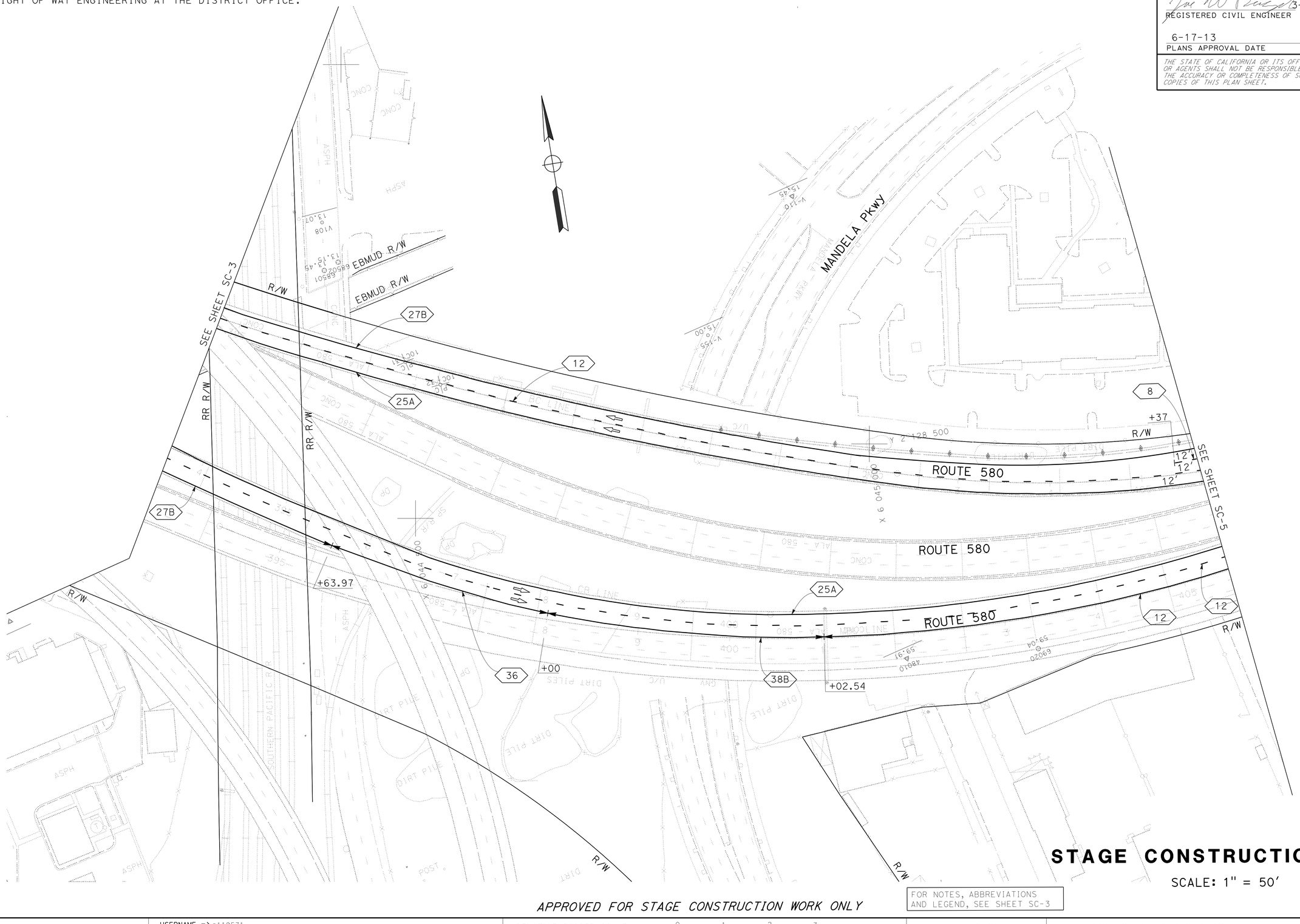
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STAGE CONSTRUCTION PLAN

SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-3

SC-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG

CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN

REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION: 05-20-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	24	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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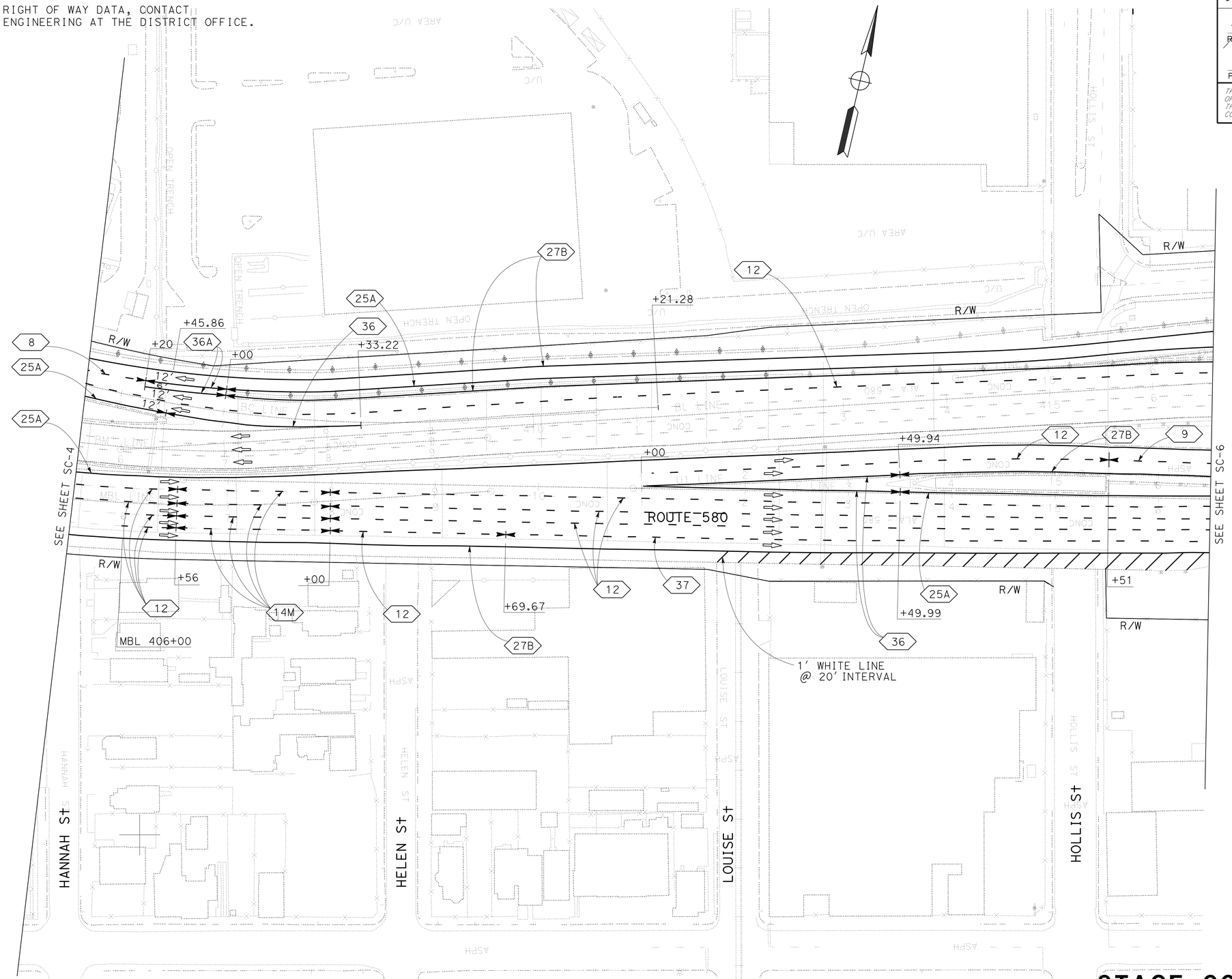
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STAGE CONSTRUCTION PLAN

SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-3

SC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-15-13
DATE PLOTTED => 21-JUN-2013
TIME PLOTTED => 15:46

BORDER LAST REVISED 7/2/2010
USERNAME => s121614
DGN FILE => 0412000346ma005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0725
PROJECT NUMBER & PHASE 04120003461

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	25	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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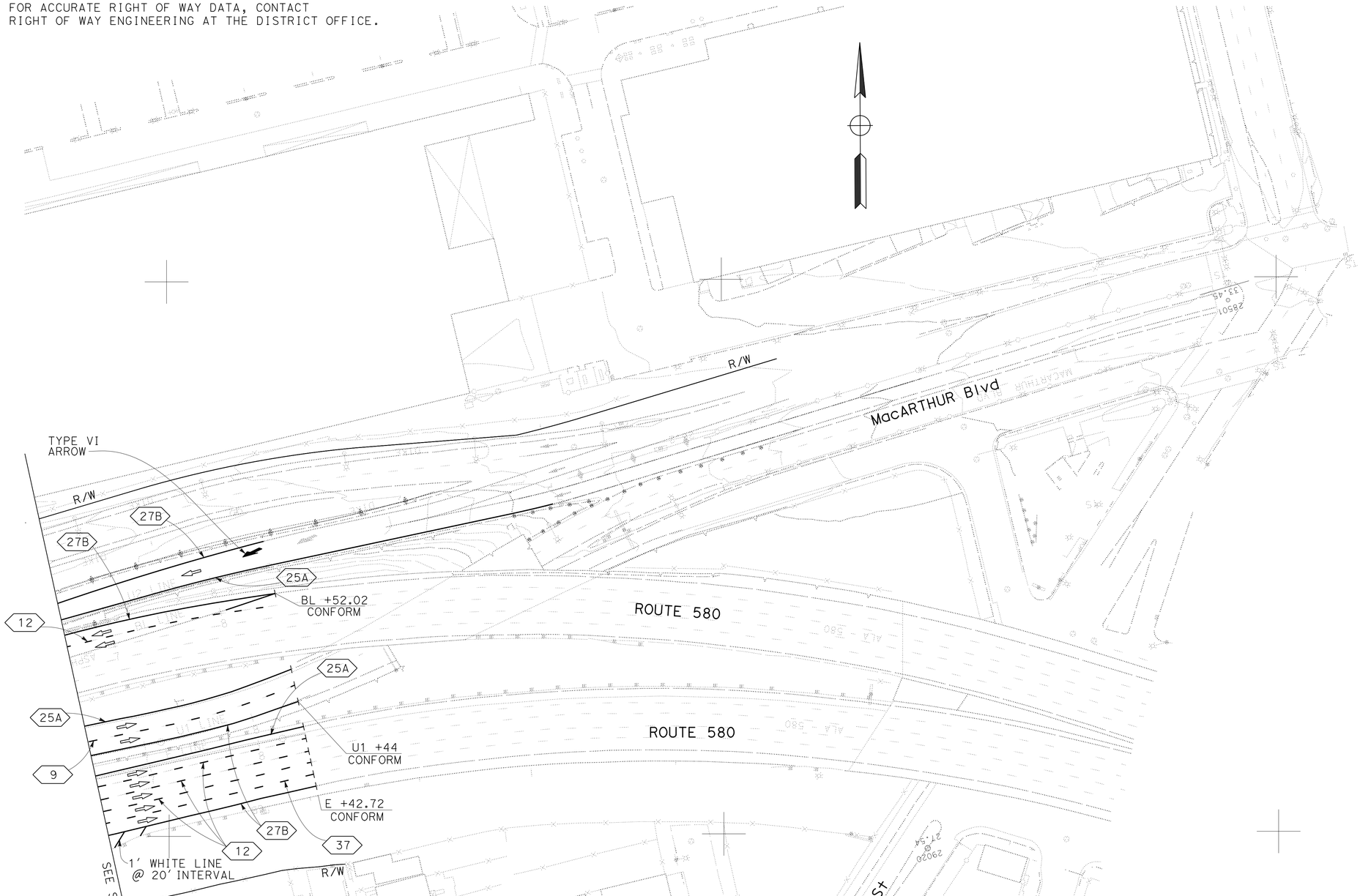
NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



STAGE CONSTRUCTION PLAN

SCALE: 1" = 50'

APPROVED FOR STAGE CONSTRUCTION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET SC-3

SC-6

JOE W. BUCZEK	JB	CALCULATED-DESIGNED BY	
DEANNA TAN	9/14/12	CHECKED BY	
REVISED BY		FUNCTIONAL SUPERVISOR	
DATE REVISED		TONY WONG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 05-21-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	26	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS

SHEET No.	STATION LIMITS	DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)					TEMPORARY PAVEMENT MARKER				DELINEATOR	TEMPORARY PAVEMENT MARKING (PAINT)	
			4" WHITE	4" YELLOW	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS
								TYPE A	TYPE C	TYPE G	TYPE H	(CLASS 1)		
			LF					EA						
SC-3	CB 385+00 TO 393+61.418	12	862							19				
	CB 385+00 TO 393+61.418	25A		862							37			
	CB 384+70.36 TO 386+53 TRAVELED WAY (MAIN LINE)	36					183			9				
	CB 386+53 TO 393+61.418	27B	709											
	BC 387+72.84 TO 394+77.390	25A		705							31			
	BC 387+72.84 TO 394+77.390	12	705							16				
	BC 387+72.84 TO 394+77.390	27B	705											
	BC 390+20.00 TO 392+14.80											8		
	BC 387+72.84 TO 392+00												210	1' WHITE DIAGONAL LINE
SC-4	MBL 398+00.00 TO 401+02.54	38B					303			28				
	MBL 401+02.54 TO 405+49.965	25A		448							20			
	MBL 401+02.54 TO 405+49.965	12	896							22				
	CB 393+61.418 TO 401+02.54	25A		742							32			
	CB 393+61.418 TO 401+02.54	12	742							17				
	CB 393+61.418 TO 395+63.97	27B	203											
	CB 395+63.97 TO 398+00	36					237			11				
	BC 394+77.390 TO 405+64.649	27B	1088											
	BC 394+77.390 TO 405+64.649	12	1088							24				
	BC 394+77.390 TO 405+64.649	25A		1088							47			
	BC 405+37 TO 405+64.649 (RAMP LINES)	8			28									
SC-5	MBL 405+49.965 TO 409+54.80	25A		405							18			
	MBL 405+49.965 TO 406+56	12	214							8				
	MBL 406+00 TO 406+56	12	112							6				
	MBL 406+56 TO 408+00	14M	576					48	16					
	MBL 408+00 TO 409+54.80	12	620							20				
	MBL 405+49.965 TO 409+54.80	27B	405											
	E 9+54.80 TO 10+91.49	25A		137							7			
	E 9+69.67 TO 10+91.49	12	366							12				
	E 9+54.80 TO 9+69.67	12	60							6				
	E 9+69.67 TO 16+50.119	37				681			8	42				
	E 9+54.80 TO 10+91.49	27B	137											
	E 10+91.49 TO 13+49.99	36					259			12				
	E 13+49.99 TO 16+50.12	25A		301							14			
	E 10+91.49 TO 16+50.12	12	1677							39				
	E 10+91.49 TO 16+50.12	27B	559											
	E 10+91.49 TO 16+50.12												416	1' WHITE DIAGONAL LINE
	U1 10+91.49 TO 16+50.703	25A		560							25			
	U1 10+91.49 TO 15+52	12	461							11				
	U1 15+52.00 TO 16+50.703	9			99					4				
	U1 10+91.49 TO 13+49.94	36					250			12				
	U1 13+49.94 TO 16+50.703	27B	301											
SUBTOTAL			12486	5248	127	681	1232	48	24	318	231	8	626	

STAGE CONSTRUCTION QUANTITIES

SCQ-1

JB	9/14/12	REVISED BY / DATE REVISED
JOE W. BUCZEK	DEANNA TAN	CALCULATED-DESIGNED BY / CHECKED BY
TONY WONG		FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 05-31-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	27	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS (Cont.)

SHEET No.	STATION LIMITS	DETAIL No.	TEMPORARY TRAFFIC STRIPE (PAINT)					TEMPORARY PAVEMENT MARKER				DELINEATOR	TEMPORARY PAVEMENT MARKING (PAINT)	
			4" WHITE	4" YELLOW	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS
								TYPE A	TYPE C	TYPE G	TYPE H	(CLASS 1)		
			LF					EA						
SC-5	BL 9+54.79 TO 10+61.42	25A		107							6			
	BL 10+61.42 TO 16+57.894	27B	597											
	BL 10+61.42 TO 16+57.894	25A		597							26			
	BL 10+61.42 TO 16+57.894	27B	597											
	BL 10+61.42 TO 16+57.894	12	597							14				
	BL 10+61.42 TO 16+57.894	25A		597							26			
	BC 405+64.65 TO 406+20 (RAMP LINE)	36A			56									
	BC 406+20 TO 407+00 (RAMP LINE)	36A					80			5				
	BC 407+00 TO 410+61.42	25A		362							17			
	BC 406+20 TO 410+61.42 (MAIN LINE)	36A	442											
	BC 405+64.649 TO 410+61.42	27B	497											
	BC 405+64.649 TO 410+61.42	12	497							12				
	BC 405+64.649 TO 406+45.86	25A		82							5			
	BC 406+45.86 TO 408+33.22	36					188			9				
SC-6	U2 16+60.702 TO 18+54.52	27B	194											
	U2 16+60.702 TO 18+54.52												42	TYPE VI ARROW
	U2 16+60.702 TO 18+54.52	25A		194							10			
	BL 16+57.894 TO 18+52.02	27B	195											
	BL 16+57.894 TO 18+52.02	12	585							18				
	U1 16+50.703 TO 18+44	25A		194							10			
	U1 16+50.703 TO 18+44	9			194					6				
	U1 16+50.703 TO 18+44	27B	194											
	E 16+50.119 TO 18+42.72	25A		193							10			
	E 16+50.119 TO 18+42.72	12	579							18				
	E 16+50.119 TO 18+42.72	37				193			8	9				
	E 16+50.119 TO 18+42.72	27B	193											
	E 16+50.119 TO 18+42.72												16	1' WHITE DIAGONAL LINE
SUBTOTAL			5167	2326	250	193	268		8	91	110		58	
SUBTOTAL FROM SCQ-1			12486	5248	127	681	1232	48	24	318	231	8	626	
TOTAL			27978					830				8	684	

STAGE CONSTRUCTION QUANTITIES

SCQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-31-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	28	59

REGISTERED CIVIL ENGINEER DATE 5-28-13

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

REMOVE TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

SHEET No.	STATION LIMITS	DETAIL No.	REMOVE PAINTED TRAFFIC STRIPE					REMOVE PAVEMENT MARKER				REMOVE DELINEATOR	REMOVE PAINTED PAVEMENT MARKING	
			4" YELLOW	4" WHITE	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS
								TYPE A	TYPE C	TYPE G	TYPE H			
			LF					EA						
SC-3	CB 385+00 TO 393+61.418	12		216						19				
	CB 385+00 TO 393+61.418	25A	862								37			
	CB 384+70.36 TO 386+53 TRAVELED WAY	36					366			9				
	CB 386+53 TO 393+61.418	27B		709										
	BC 387+72.84 TO 394+77.390	25A	705								31			
	BC 387+72.84 TO 394+77.390	12		177						16				
	BC 387+72.84 TO 394+77.390	27B		705										
	BC 390+20.00 TO 392+14.80											8		
	BC 387+72.84 TO 392+00												210	1' WHITE DIAGONAL LINE
SC-4	MBL 398+00 TO 401+02.54	38B					606			28				
	MBL 401+02.54 TO 405+49.965	25A	448								20			
	MBL 401+02.54 TO 405+49.965	12		224						22				
	CB 393+61.418 TO 401+02.54	25A	742								32			
	CB 393+61.418 TO 401+02.54	12		186						17				
	CB 393+61.418 TO 395+63.97	27B		203										
	CB 395+63.97 TO 398+00	36					474			11				
	BC 394+77.390 TO 405+64.649	27B		1088										
	BC 394+77.390 TO 405+64.649	12		272						24				
	BC 394+77.390 TO 405+64.649	25A	1088								47			
	BC 405+37 TO 405+64.649 (RAMP LINES)	8			14									
SC-5	MBL 405+49.965 TO 409+54.80	25A	405								18			
	MBL 405+49.965 TO 406+56	12		54						8				
	MBL 406+00 TO 406+56	12		28						6				
	MBL 406+56 TO 408+00	14M		144				48	16					
	MBL 408+00 TO 409+54.80	12		154						18				
	MBL 405+49.965 TO 409+54.80	27B		405										
	E 9+54.80 TO 10+91.49	25A	137								7			
	E 9+54.80 TO 10+91.49	12		105						12				
	E 9+54.80 TO 9+69.67	12		4						2				
	E 9+69.67 TO 16+50.119	37				237			8	42				
	E 9+54.80 TO 10+91.49	27B		137										
	E 11+00.00 TO 13+49.99	36					500			12				
	E 13+49.99 TO 16+50.12	25A	301								14			
	E 10+91.49 TO 16+50.12	12		420						39				
	E 10+91.49 TO 16+50.12	27B		559										
	E 11+72 TO 16+50.12												416	1' WHITE DIAGONAL LINE
	U1 10+91.49 TO 16+50.703	25A	560								25			
	U1 10+91.49 TO 15+52	12		116						11				
	U1 15+52.00 TO 16+50.703	9			29					4				
	U1 10+91.49 TO 13+49.94	36					500			12				
	U1 13+49.94 TO 16+50.703	27B		301										
	BM 406+41.36 TO 408+33.22	36					384			9				
	BM 408+33.22 TO 409+54.79	38B					244			14				
SUBTOTAL			5248	6063	43	237	3074	48	24	335	231	8	626	

STAGE CONSTRUCTION QUANTITIES

SCQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-31-13
DATE PLOTTED => 21-JUN-2013
TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	29	59

REGISTERED CIVIL ENGINEER 5-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

REMOVE TEMPORARY TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS (Cont.)

SHEET No.	STATION LIMITS	DETAIL No.	REMOVE PAINTED TRAFFIC STRIPE					REMOVE PAVEMENT MARKER				REMOVE DELINEATOR	REMOVE PAINTED PAVEMENT MARKING	
			4" YELLOW	4" WHITE	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS
								TYPE A	TYPE C	TYPE G	TYPE H			
			LF					EA						
SC-5	BL 10+61.42 TO 16+57.894	27B		597										
	BL 10+61.42 TO 16+57.894	27B		597										
	BL 10+61.42 TO 16+57.894	12		150						14				
	BL 10+61.42 TO 16+57.894	25A	597								26			
	BC 405+64.65 TO 407+00 (RAMP LINE)	36A			21		160			5				
	BC 407+00 TO 410+61.42	25A	362								17			
	BC 406+20 TO 410+61.42 (MAIN LINE)	36A		442										
	BC 405+64.649 TO 410+61.42	27B		497										
	BC 405+64.649 TO 410+61.42	12		125						12				
	BC 405+64.649 TO 406+45.86	25A	82								5			
	BC 406+45.86 TO 408+33.22	36					376			9				
SC-6	U2 16+60.702 TO 18+54.52	27B		194										
	U2 16+60.702 TO 18+54.52												42	ONE TYPE VI ARROW
	U2 16+60.702 TO 18+54.52	25A	194								10			
	BL 16+57.894 TO 18+52.02	27B		195										
	BL 16+57.894 TO 18+52.02	12		49						6				
	U1 16+50.703 TO 18+44	25A	194								10			
	U1 16+50.703 TO 18+44	9			57					6				
	U1 16+50.703 TO 18+44	27B		194										
	E 16+50.119 TO 18+42.72	25A	193								10			
	E 16+50.119 TO 18+42.72	12		147						18				
	E 16+50.119 TO 18+42.72	37				78			8	9				
	E 16+50.119 TO 18+42.72	27B		193										
	E 16+50.119 TO 18+42.72												16	1' WHITE DIAGONAL LINE
SUBTOTAL			1622	3380	78	78	536		8	79	78		58	
SUBTOTAL FROM SCQ-3			5248	6063	43	237	3074	48	24	335	231	8	626	
TOTAL			6870	13489				803				8	684	

STAGE CONSTRUCTION QUANTITIES

SCQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-31-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	30	59

REGISTERED CIVIL ENGINEER 3-25-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Shi F. Lam No. 50970 Exp. 9-30-13 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.

NOTE:

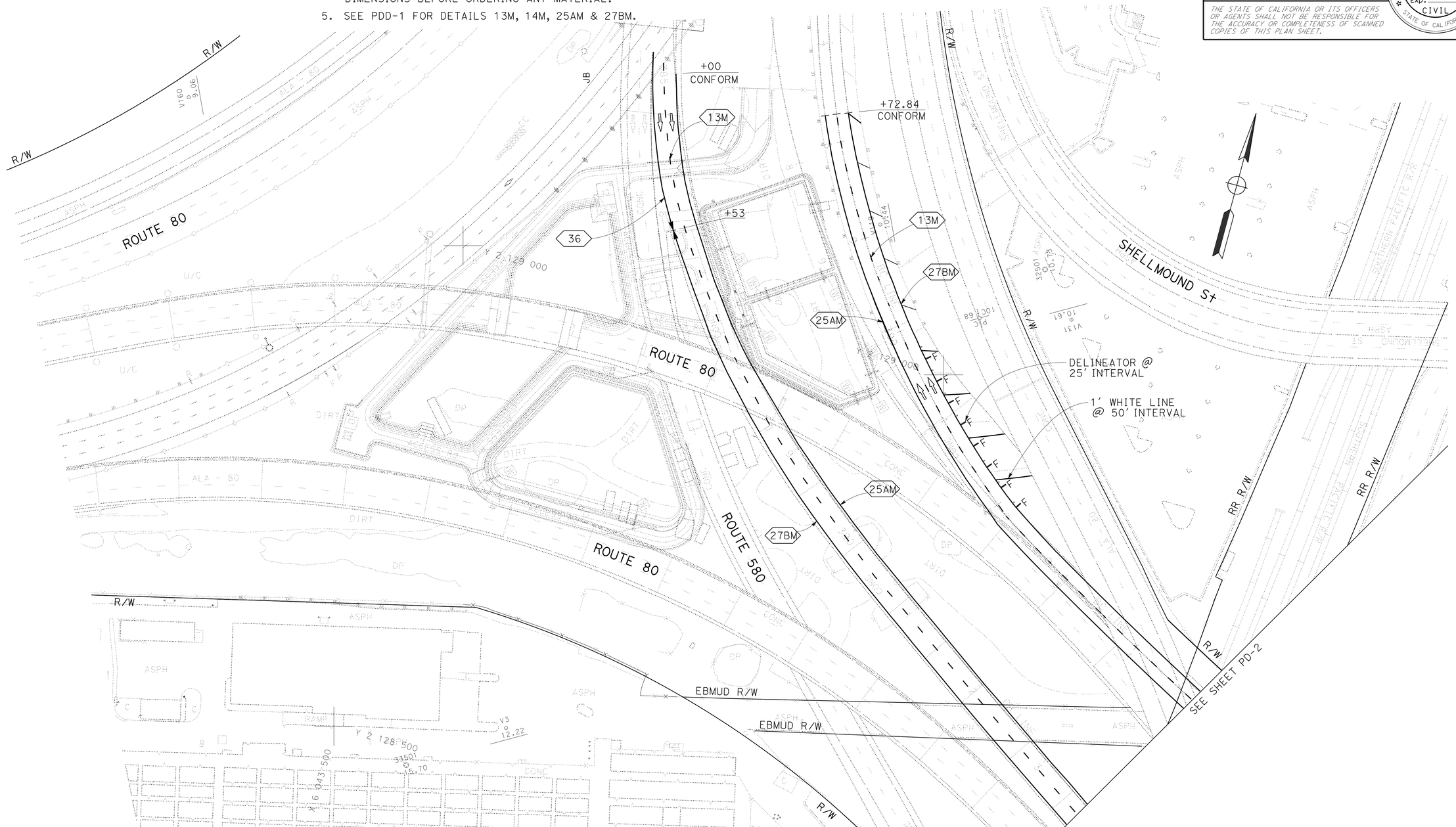
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES:

1. ALL LANES ARE 12' WIDE UNLESS OTHERWISE NOTED.
2. ALL ALIGNMENTS ARE FOR PAVEMENT DELINEATION USE ONLY.
3. ALL PAVEMENT DELINEATION SHALL BE PLACED ON THE SAME ALIGNMENT AND LOCATION AS EXISTING PAVEMENT DELINEATION.
4. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING ANY MATERIAL.
5. SEE PDD-1 FOR DETAILS 13M, 14M, 25AM & 27BM.

LEGEND:

No.	PAVEMENT DELINEATION DETAIL NUMBER
	CHANGE OF PAVEMENT DELINEATION DETAILS
- F	TYPE F DELINEATOR



PAVEMENT DELINEATION PLAN

SCALE: 1'' = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

PD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans®

TRAFFIC

FUNCTIONAL SUPERVISOR: EMILY TANG

CALCULATED-DESIGNED BY: JOE W. BUCZEK

CHECKED BY: SHI F. LAM

REVISED BY: JB

DATE REVISED: 3/26/13

LAST REVISION: 03-28-13

DATE PLOTTED => 21-JUN-2013

TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	31	59

REGISTERED CIVIL ENGINEER 3-25-13 DATE

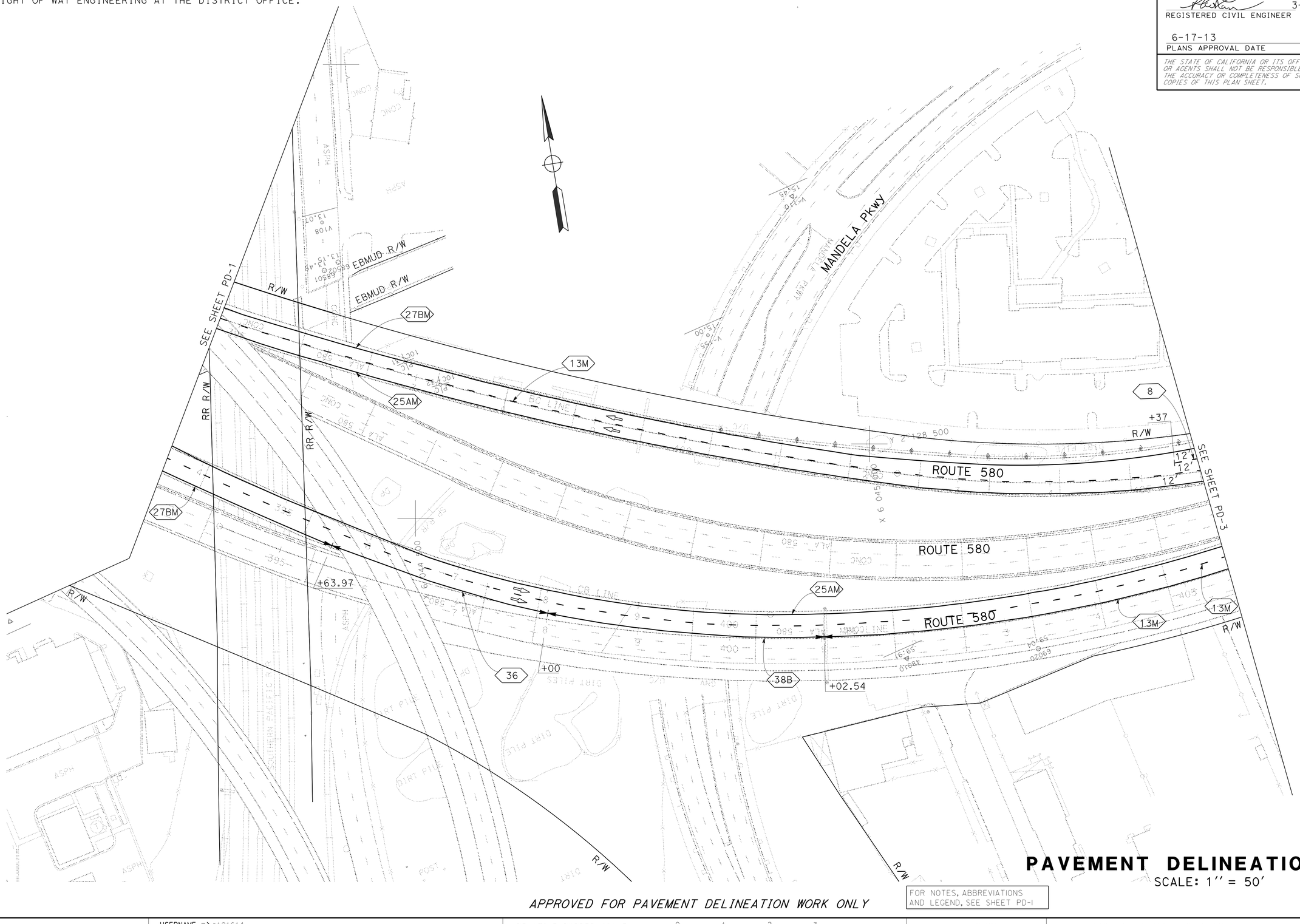
6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Shi F. Lam
No. 50970
Exp. 9-30-13
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.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

SCALE: 1'' = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET PD-1

PD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: EMILY TANG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: SHI F. LAM
REVISED BY: JB
DATE REVISED: 3/26/13

LAST REVISION 05-15-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	32	59

REGISTERED CIVIL ENGINEER 3-25-13 DATE

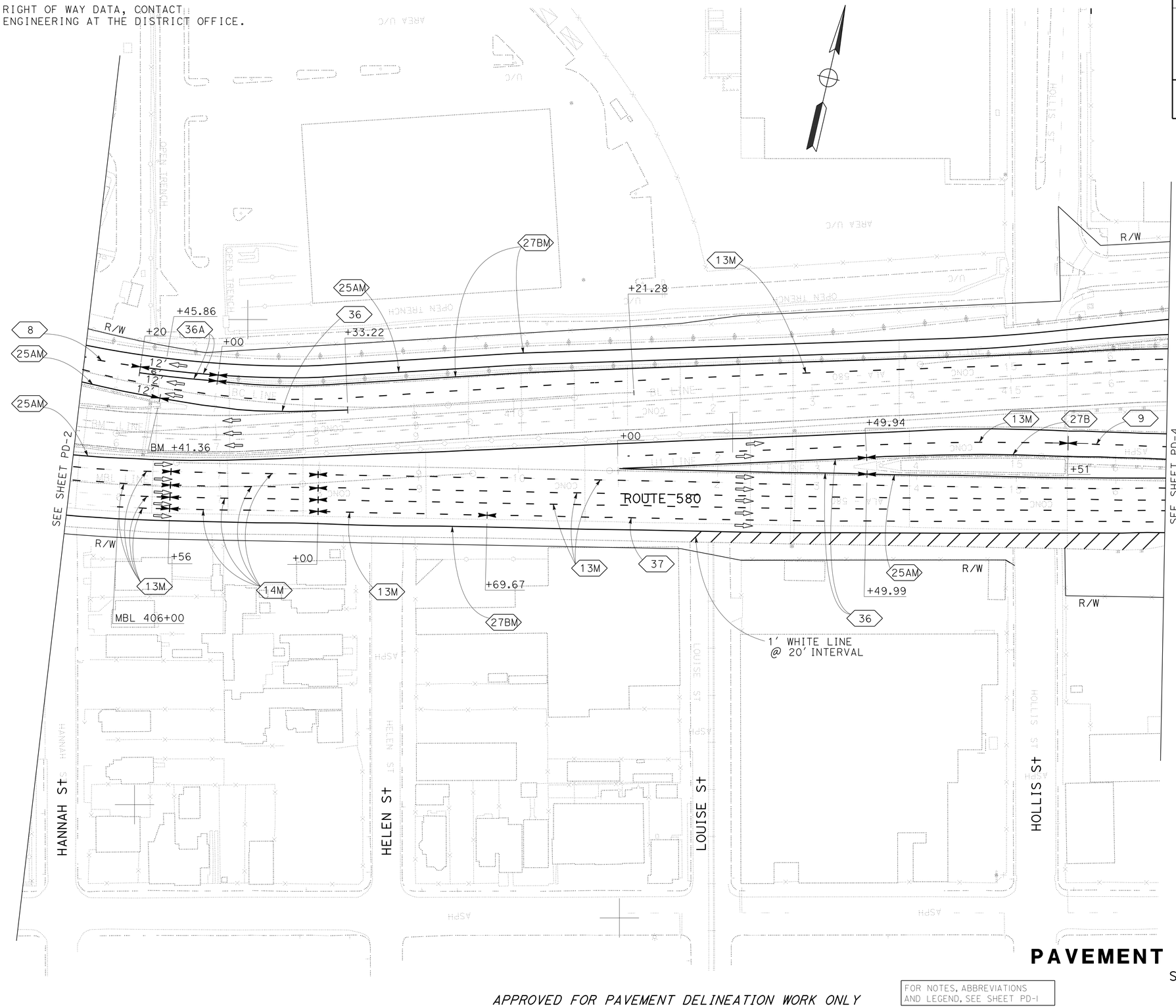
6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Shi F. Lam No. 50970 Exp. 9-30-13 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.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

SCALE: 1'' = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET PD-1

PD-3

JOE W. BUCZEK	REVISED BY: JB
SHI F. LAM	DATE REVISED: 3/26/13
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR: EMILY TANG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 03-20-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	33	59

REGISTERED CIVIL ENGINEER 3-25-13 DATE

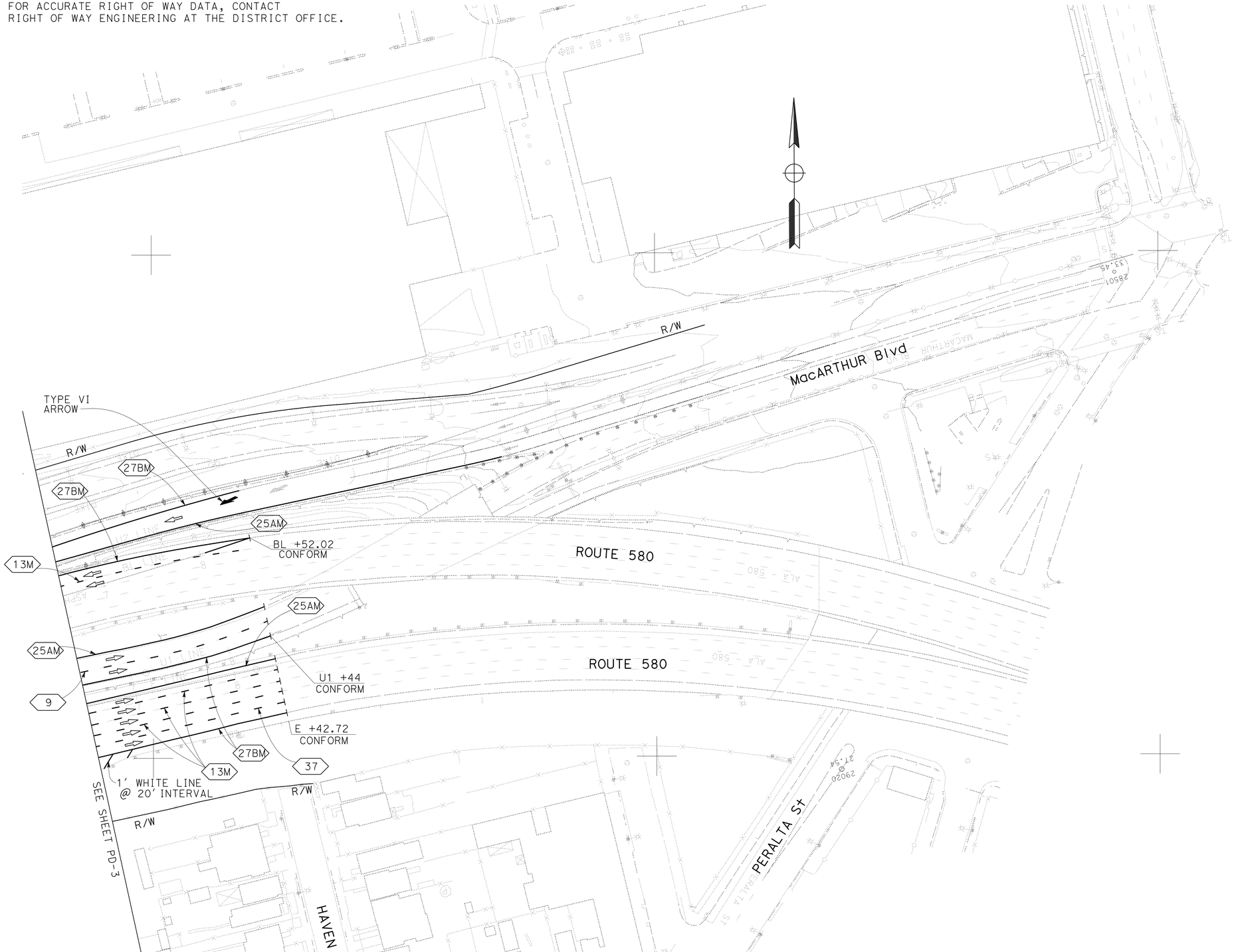
6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Shi F. Lam
No. 50970
Exp. 9-30-13
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.

NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PAVEMENT DELINEATION PLAN

SCALE: 1'' = 50'

APPROVED FOR PAVEMENT DELINEATION WORK ONLY

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET PD-1

PD-4

CALCULATED-DESIGNED BY	CHECKED BY	FUNCTIONAL SUPERVISOR	REVISED BY	DATE REVISED
JOE W. BUCZEK	SHI F. LAM	EMILY TANG	JB	3/26/13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

LAST REVISION 03-28-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 15:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	34	59

REGISTERED CIVIL ENGINEER 3-25-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Shi F. Lam No. 50970 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

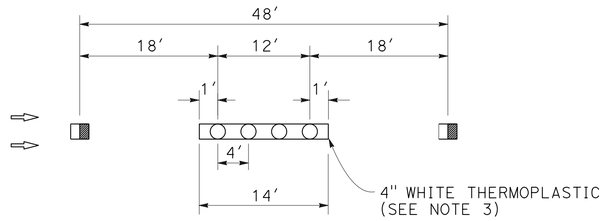
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

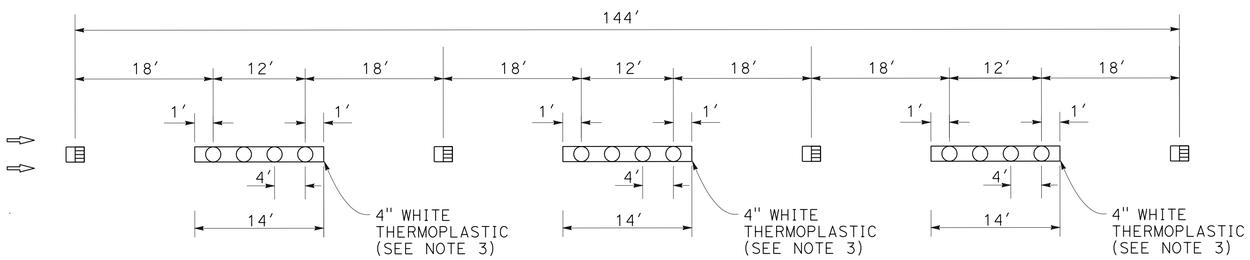
1. DETAILS 13M, 14M, 25AM AND 27BM ARE MODIFIED PAVEMENT DELINEATION DETAILS 13, 14, 25A AND 27B.
2. FOR DETAILS NOT SHOWN, SEE 2010 STANDARD PLAN A20A, A20B AND A24E.
3. INSTALL 4" WHITE THERMOPLASTIC AFTER INSTALLING PAVEMENT MARKERS.

ABBREVIATION:

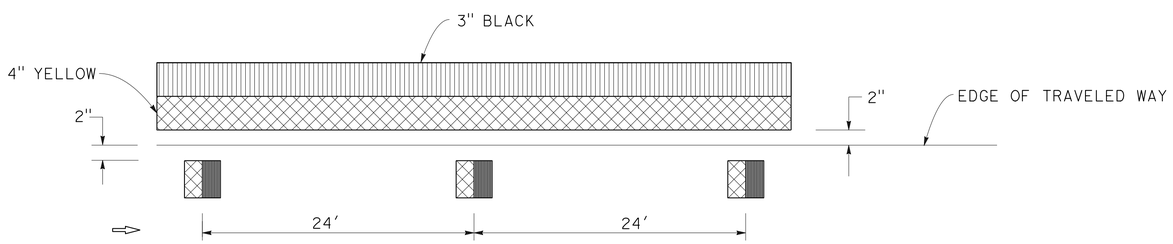
M MODIFIED



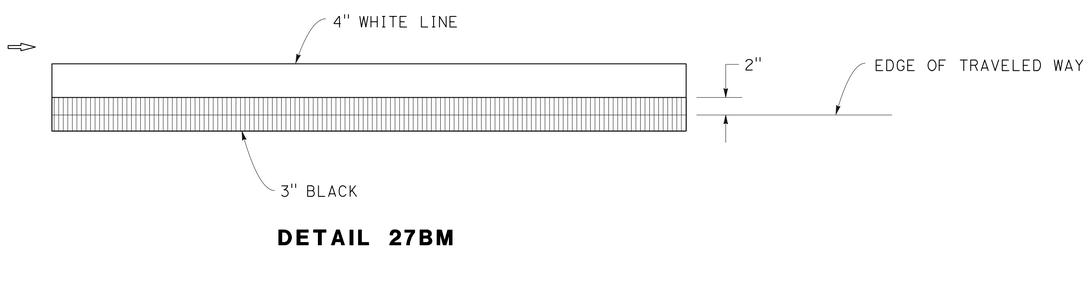
DETAIL 13M



DETAIL 14M



DETAIL 25AM



DETAIL 27BM

PAVEMENT DELINEATION DETAILS

NO SCALE

PDD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: EMILY TANG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: SHI F. LAM
REVISED BY: JB
DATE REVISED: 3/26/13

LAST REVISION 03-26-13
DATE PLOTTED => 21-JUN-2013
TIME PLOTTED => 15:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	35	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

REMOVE TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS

SHEET No.	STATION LIMITS	DETAIL No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE	REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAVEMENT MARKER				REMOVE DELINEATOR	REMOVE PAVEMENT MARKING		REMOVE PAINTED TRAFFIC STRIPE
				4" WHITE	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS	
								TYPE A	TYPE C	TYPE G	TYPE H				
			LF					EA							LF
PD-1	CB 385+00 TO 393+61.418	13M		216				72		19					
	CB 385+00 TO 393+61.418	25AM	862								37				862
	CB 384+70.36 TO 386+53 TRAVELED WAY	36					366			9					
	CB 386+53 TO 393+61.418	27BM		709											709
	BC 387+72.84 TO 394+77.390	25AM	705								31				705
	BC 387+72.84 TO 394+77.390	13M		177				59		16					
	BC 387+72.84 TO 394+77.390	27BM		705											705
	BC 390+20.00 TO 392+14.80											8			
	BC 387+72.84 TO 392+00												210	1' WHITE DIAGONAL LINE	
PD-2	MBL 398+00 TO 401+02.54	38B					606			28					
	MBL 401+02.54 TO 405+49.965	25AM	448								20				448
	MBL 401+02.54 TO 405+49.965	13M		224				76		22					
	CB 393+61.418 TO 401+02.54	25AM	742								32				742
	CB 393+61.418 TO 401+02.54	13M		186				62		17					
	CB 393+61.418 TO 395+63.97	27BM		203											203
	CB 395+63.97 TO 398+00	36					474			11					
	BC 394+77.390 TO 405+64.649	27BM		1088											1088
	BC 394+77.390 TO 405+64.649	13M		272				91		24					
	BC 394+77.390 TO 405+64.649	25AM	1088								47				1088
	BC 405+37 TO 405+64.649 (RAMP LINES)	8			14										
PD-3	MBL 405+49.965 TO 409+54.80	25AM	405								18				405
	MBL 405+49.965 TO 406+56	13M		54				18		8					
	MBL 406+00 TO 406+56	13M		28				10		6					
	MBL 406+56.00 TO 409+54.80	13M		300				100		32					
	MBL 405+49.965 TO 409+54.80	27BM		405											405
	E 9+54.80 TO 10+91.49	25AM	137								7				137
	E 9+54.80 TO 10+91.49	13M		105				36		12					
	E 9+54.80 TO 9+69.67	13M		4				2		2					
	E 9+69.67 TO 16+50.119	37				237			8	42					
	E 9+54.80 TO 10+91.49	27BM		137											137
	E 11+00.00 TO 13+49.99	36					500			12					
	E 13+49.99 TO 16+50.12	25AM	301								14				301
	E 10+91.49 TO 16+50.12	13M		420				141		39					
	E 10+91.49 TO 16+50.12	27BM		559											559
	E 11+72 TO 16+50.12												416	1' WHITE DIAGONAL LINE	
	U1 10+91.49 TO 16+50.703	25AM	560								25				560
	U1 10+91.49 TO 15+52	13M		116				39		11					
	U1 15+52.00 TO 16+50.703	9			29					4					
	U1 10+91.49 TO 13+49.94	36					500			12					
	U1 13+49.94 TO 16+50.703	27BM		301											301
	BM 406+41.36 TO 408+33.22	36					384			9					
	BM 408+33.22 TO 409+54.79	38B					244			14					
SUBTOTAL			5248	6209	43	237	3074	706	8	349	231	8	626		9355

PAVEMENT DELINEATION QUANTITIES

PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-20-13 | DATE PLOTTED => 05-JUL-2013 | TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	36	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

REMOVE TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS (Cont.)

SHEET No.	STATION LIMITS	DETAIL No.	REMOVE YELLOW THERMOPLASTIC TRAFFIC STRIPE	REMOVE THERMOPLASTIC TRAFFIC STRIPE				REMOVE PAVEMENT MARKER				REMOVE DELINEATOR	REMOVE THERMOPLASTIC PAVEMENT MARKING		REMOVE PAINTED TRAFFIC STRIPE
				4" WHITE	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS	
								TYPE A	TYPE C	TYPE G	TYPE H				
			LF					EA							LF
PD-3	BL 10+61.42 TO 16+57.894	27BM		597											597
	BL 10+61.42 TO 16+57.894	27BM		597											597
	BL 10+61.42 TO 16+57.894	13M		150				50		14					
	BL 10+61.42 TO 16+57.894	25AM	597								26				597
	BC 405+64.65 TO 407+00 (RAMP LINE)	36A			21		160			5					
	BC 407+00 TO 410+61.42	25AM	362								17				362
	BC 406+20 TO 410+61.42 (MAIN LINE)	36A		442											442
	BC 405+64.649 TO 410+61.42	27BM		497											497
	BC 405+64.649 TO 410+61.42	13M		125				42		12					
	BC 405+64.649 TO 406+45.86	25AM	82								5				82
	BC 406+45.86 TO 408+33.22	36					376			9					
PD-4	U2 16+60.702 TO 18+54.52	27BM		194											194
	U2 16+60.702 TO 18+54.52												42	ONE TYPE VI ARROW	
	U2 16+60.702 TO 18+54.52	25AM	194								10				194
	BL 16+57.894 TO 18+52.02	27BM		195											195
	BL 16+57.894 TO 18+52.02	13M		49				17		6					
	U1 16+50.703 TO 18+44	25AM	194								10				194
	U1 16+50.703 TO 18+44	9			57					6					
	U1 16+50.703 TO 18+44	27BM		194											194
	E 16+50.119 TO 18+42.72	25AM	193								10				193
	E 16+50.119 TO 18+42.72	13M		147				51		18					
	E 16+50.119 TO 18+42.72	37				78			8	9					
	E 16+50.119 TO 18+42.72	27BM		193											193
	E 16+50.119 TO 18+42.72												16	1' WHITE DIAGONAL LINE	
	SUBTOTAL		1622	3380	78	78	536	160	8	79	78		58		4531
	SUBTOTAL FROM PDQ-1		5248	6209	43	237	3074	706	8	349	231	8	626		9355
	TOTAL		6870	13635				1619				8	684		13886

PAVEMENT DELINEATION QUANTITIES

PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-20-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	37	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 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.

TRAFFIC STRIPES, PAVEMENT MARKINGS AND PAVEMENT MARKERS

SHEET No.	STATION LIMITS	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKER				DELINEATOR	PAVEMENT MARKING		PAINTED TRAFFIC STRIPE
			4" WHITE	4" YELLOW	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS	
								TYPE A	TYPE C	TYPE G	TYPE H	TYPE F			
			LF					EA							LF
PD-1	CB 385+00 TO 393+61.418	13M	862					72		19					
	CB 385+00 TO 393+61.418	25AM		862							37				862
	CB 384+70.36 TO 386+53 TRAVELED WAY (MAIN LINE)	36					183			9					
	CB 386+53 TO 393+61.418	27BM	709												709
	BC 387+72.84 TO 394+77.390	25AM		705							31				705
	BC 387+72.84 TO 394+77.390	13M	705					59		16					
	BC 387+72.84 TO 394+77.390	27BM	705												705
	BC 390+20.00 TO 392+14.80											8			
	BC 387+72.84 TO 392+00												210	1' WHITE DIAGONAL LINE	
PD-2	MBL 398+00 TO 401+02.54	38B					303			28					448
	MBL 401+02.54 TO 405+49.965	25AM		448							20				448
	MBL 401+02.54 TO 405+49.965	13M	896					76		22					
	CB 393+61.418 TO 401+02.54	25AM		742							32				742
	CB 393+61.418 TO 401+02.54	13M	742					62		17					
	CB 393+61.418 TO 395+63.97	27BM	203												203
	CB 395+63.97 TO 398+00	36					237			11					
	BC 394+77.390 TO 405+64.649	27BM	1088												1088
	BC 394+77.390 TO 405+64.649	13M	1088					91		24					
	BC 394+77.390 TO 405+64.649	25AM		1088							47				1088
	BC 405+37 TO 405+64.649 (RAMP LINES)	8			28										
PD-3	MBL 405+49.965 TO 409+54.80	25AM		405							18				405
	MBL 405+49.965 TO 406+56	13M	214					16		8					
	MBL 406+00 TO 406+56	13M	112					8		6					
	MBL 406+56 TO 408+00	14M	576					48	16						
	MBL 408+00 TO 409+54.80	13M	620					48		20					
	MBL 405+49.965 TO 409+54.80	27BM	405												405
	E 9+54.80 TO 10+91.49	25AM		137							7				137
	E 9+69.67 TO 10+91.49	13M	366					30		12					
	E 9+54.80 TO 9+69.67	13M	60							6					
	E 9+69.67 TO 16+50.119	37				681			8	42					
	E 9+54.80 TO 10+91.49	27BM	137												137
	E 10+91.49 TO 13+49.99	36					259			12					
	E 13+49.99 TO 16+50.12	25AM		301							14				301
	E 10+91.49 TO 16+50.12	13M	1677					141		39					
	E 10+91.49 TO 16+50.12	27BM	559												559
	E 10+91.49 TO 16+50.12												416	1' WHITE DIAGONAL LINE	
	U1 10+91.49 TO 16+50.703	25AM		560							25				560
	U1 10+91.49 TO 15+52	13M	461					40		11					
	U1 15+52.00 TO 16+50.703	9			99					4					
	U1 10+91.49 TO 13+49.94	36					250			12					
	U1 13+49.94 TO 16+50.703	27BM	301												301
SUBTOTAL			12486	5248	127	681	1232	691	24	318	231	8	626		9355

PAVEMENT DELINEATION QUANTITIES

PDQ-3

JB	9/14/12	JOE W. BUCZEK	DEANNA TAN
REVISED BY	DATE REVISED	CALCULATED-DESIGNED BY	CHECKED BY
FUNCTIONAL SUPERVISOR	TONY WONG		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® DESIGN

LAST REVISION 05-31-13 | DATE PLOTTED => 21-JUN-2013 | TIME PLOTTED => 14:12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	38	59

REGISTERED CIVIL ENGINEER 3-26-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TRAFFIC STRIPES, PAVEMENT MARKINGS, AND PAVEMENT MARKERS (Cont.)

SHEET No.	STATION LIMITS	DETAIL No.	THERMOPLASTIC TRAFFIC STRIPE					PAVEMENT MARKER				DELINEATOR	PAVEMENT MARKING		PAINTED TRAFFIC STRIPE
			4" WHITE	4" YELLOW	4" WHITE (BROKEN 17-7)	8" WHITE (BROKEN 12-3)	8" WHITE	NON-REFLECTIVE	RETROREFLECTIVE				SQFT	REMARKS	
								TYPE A	TYPE C	TYPE G	TYPE H	TYPE F			
			LF					EA							LF
PD-3	BL 9+54.79 TO 10+61.42	25AM		107							6				107
	BL 10+61.42 TO 16+57.894	27BM	597												597
	BL 10+61.42 TO 16+57.894	25AM		597							26				597
	BL 10+61.42 TO 16+57.894	27BM	597												597
	BL 10+61.42 TO 16+57.894	13M	597					50		14					
	BL 10+61.42 TO 16+57.894	25AM		597							26				597
	BC 405+64.65 TO 406+20 (RAMP LINE)	36A			56										
	BC 406+20 TO 407+00 (RAMP LINE)	36A					80			5					
	BC 407+00 TO 410+61.42	25AM		362							17				362
	BC 406+20 TO 410+61.42 (MAIN LINE)	36A	442												
	BC 405+64.649 TO 410+61.42	27BM	497												497
	BC 405+64.649 TO 410+61.42	13M	497					42		12					
	BC 405+64.649 TO 406+45.86	25AM		82							5				82
	BC 406+45.86 TO 408+33.22	36					188			9					
PD-4	U2 16+60.702 TO 18+54.52	27BM	194												194
	U2 16+60.702 TO 18+54.52												42	TYPE VI ARROW	
	U2 16+60.702 TO 18+54.52	25AM		194							10				194
	BL 16+57.894 TO 18+52.02	27BM	195												195
	BL 16+57.894 TO 18+52.02	13M	585					48		18					
	U1 16+50.703 TO 18+44	25AM		194							10				194
	U1 16+50.703 TO 18+44	9			194					6					
	U1 16+50.703 TO 18+44	27BM	194												194
	E 16+50.119 TO 18+42.72	25AM		193							10				193
	E 16+50.119 TO 18+42.72	13M	579					51		18					
	E 16+50.119 TO 18+42.72	37				193			8	9					
	E 16+50.119 TO 18+42.72	27BM	193												193
	E 16+50.119 TO 18+42.72												16	1' WHITE DIAGONAL LINE	
SUBTOTAL			5167	2326	250	193	268	191	8	91	110		58		4793
SUBTOTAL FROM PDQ-3			12486	5248	127	681	1232	691	24	318	231	8	626		9355
TOTAL			25227		377	874	1500	882		782		8	684		14148

PAVEMENT DELINEATION QUANTITIES

PDQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-31-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	39	59

REGISTERED CIVIL ENGINEER DATE 3-26-13

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Joe W. Buczek No. 48864 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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CRASH CUSHION

SHEET No.	STATION LIMITS	SMART - SCI 100 GM	REACT 350 (96")
		EA	EA
L-3	BM 406+41	1	
L-3	U1 13+59		1
TOTAL		1	1

TEMPORARY FENCE (TYPE ESA)

SHEET No.	LF
C-1 AND C-2	5890
TOTAL	5890

SALVAGE CRASH CUSHION

SHEET No.	STATION LIMITS	CRASH CUSHION TYPE	EA
L-3	BM 406+41	SMART - SCI 100 GM	1
L-3	U1 13+59	REACT 350 (96")	1
TOTAL			2

TEMPORARY DRAINAGE INLET PROTECTION

SHEET No.	EA
STRUCTURE PLANS (SHEETS 1-6)	75
TOTAL	75

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: TONY WONG
CALCULATED-DESIGNED BY: JOE W. BUCZEK
CHECKED BY: DEANNA TAN
REVISED BY: JB
DATE REVISED: 9/14/12

LAST REVISION 05-21-13
DATE PLOTTED => 05-JUL-2013
TIME PLOTTED => 07:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	40	59

Roberta L. McLaughlin
REGISTERED CIVIL ENGINEER

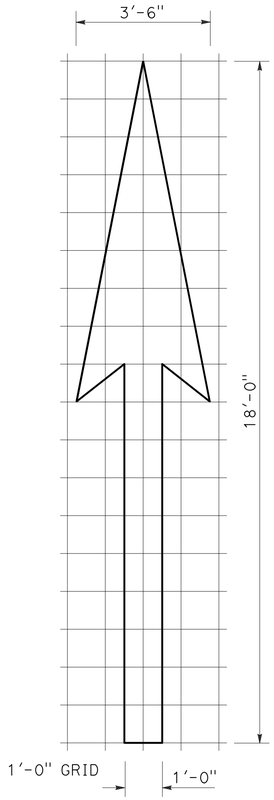
April 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
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.

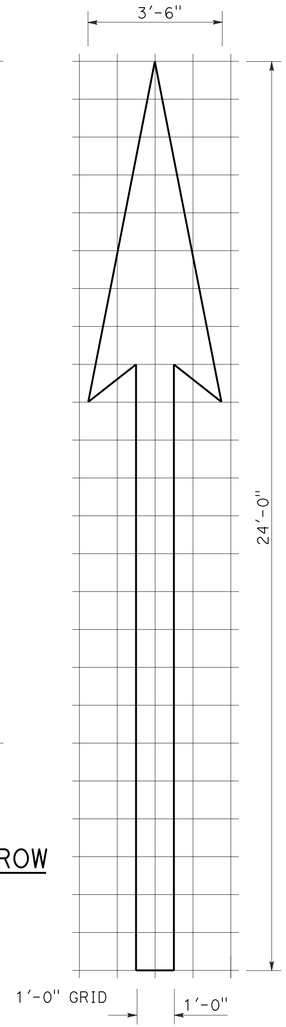
TO ACCOMPANY PLANS DATED 6-17-13

2010 REVISED STANDARD PLAN RSP A24A



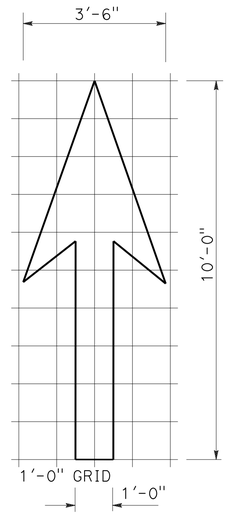
A=25 ft^2

TYPE I 18'-0" ARROW



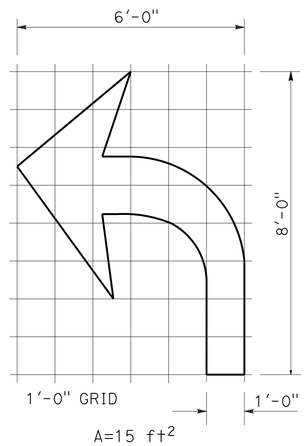
A=31 ft^2

TYPE I 24'-0" ARROW



A=14 ft^2

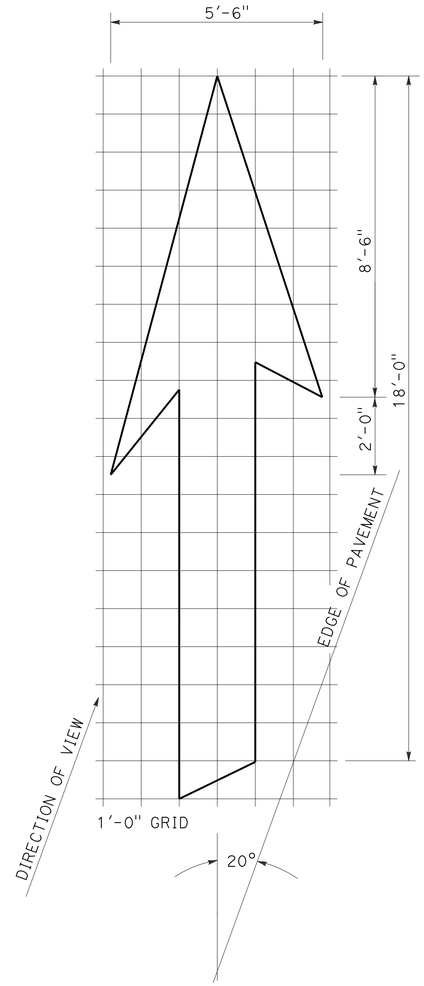
TYPE I 10'-0" ARROW



A=15 ft^2

TYPE IV (L) ARROW

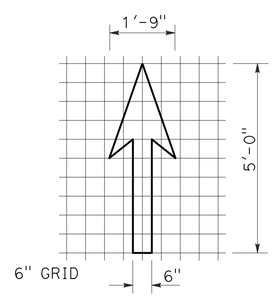
(For Type IV (R) arrow, use mirror image)



A=42 ft^2

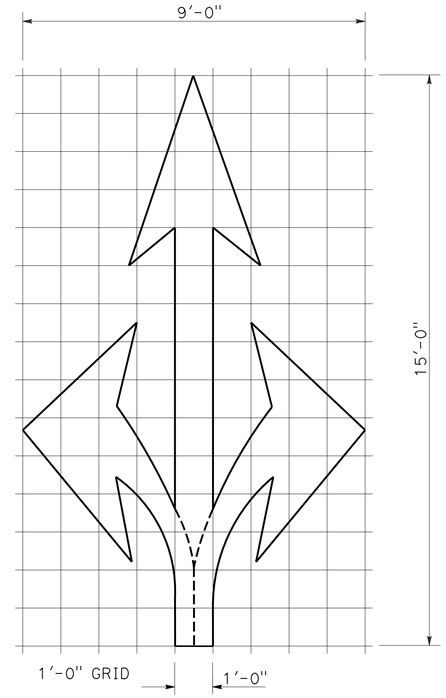
TYPE VI ARROW

Right lane drop arrow
(For left lane, use mirror image)



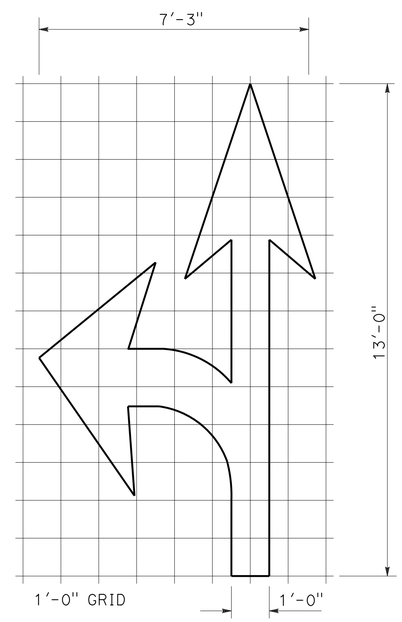
A=3.5 ft^2

BIKE LANE ARROW



A=36 ft^2

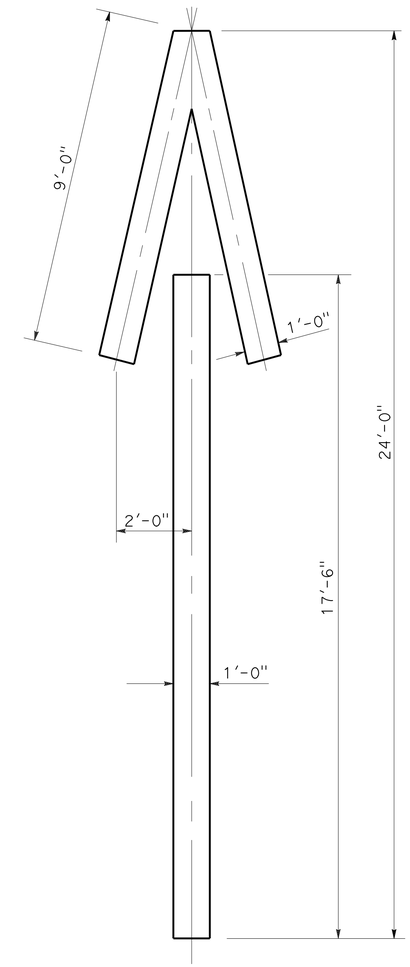
TYPE VIII ARROW



A=27 ft^2

TYPE VII (L) ARROW

(For Type VII (R) arrow, use mirror image)



A=33 ft^2

TYPE V ARROW

NOTE:
Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS ARROWS

NO SCALE

RSP A24A DATED APRIL 20, 2012 SUPERSEDES STANDARD PLAN A24A DATED MAY 20, 2011 - PAGE 13 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24A

3-14-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	41	59

REGISTERED CIVIL ENGINEER

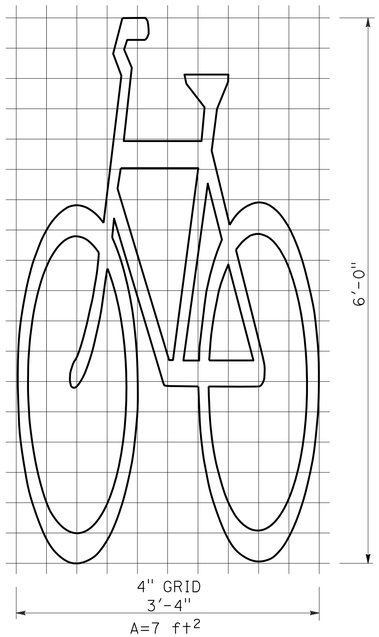
October 19, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
CIVIL
STATE OF CALIFORNIA

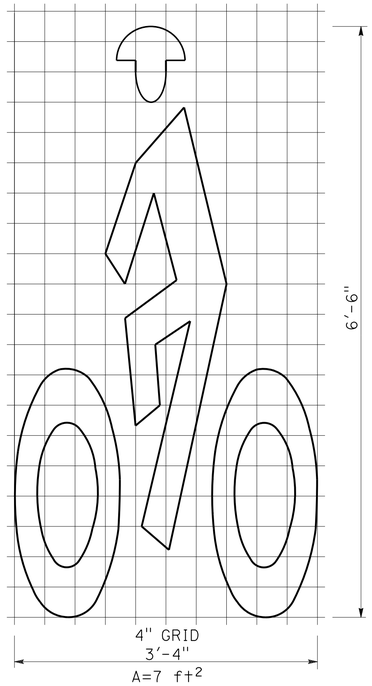
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE: TO ACCOMPANY PLANS DATED 6-17-13

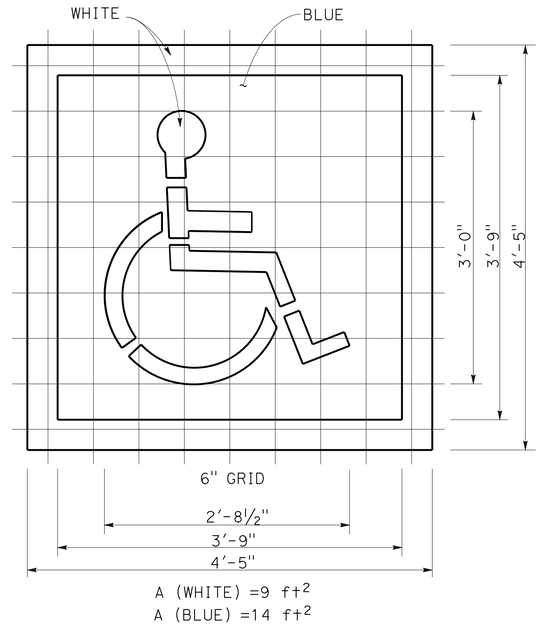
Minor variations in dimensions may be accepted by the Engineer.



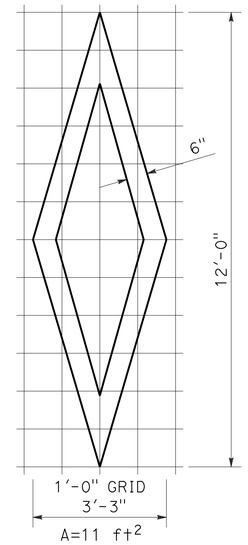
BIKE LANE SYMBOL WITHOUT PERSON



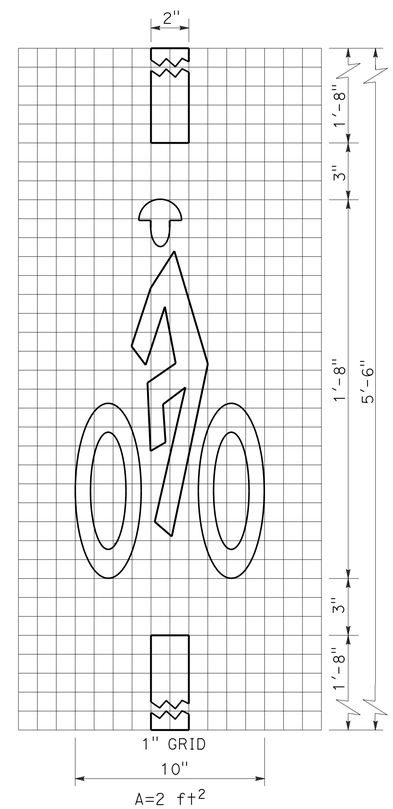
BIKE LANE SYMBOL WITH PERSON



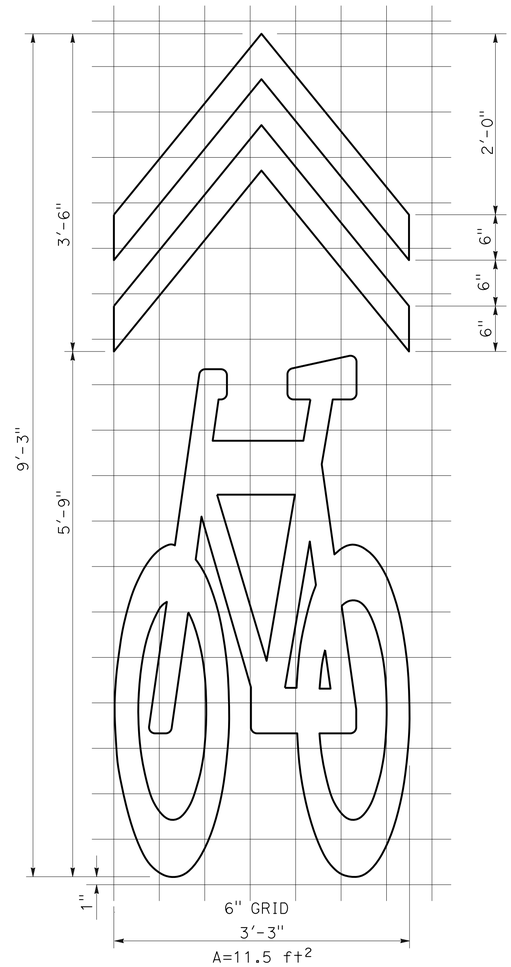
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) MARKING



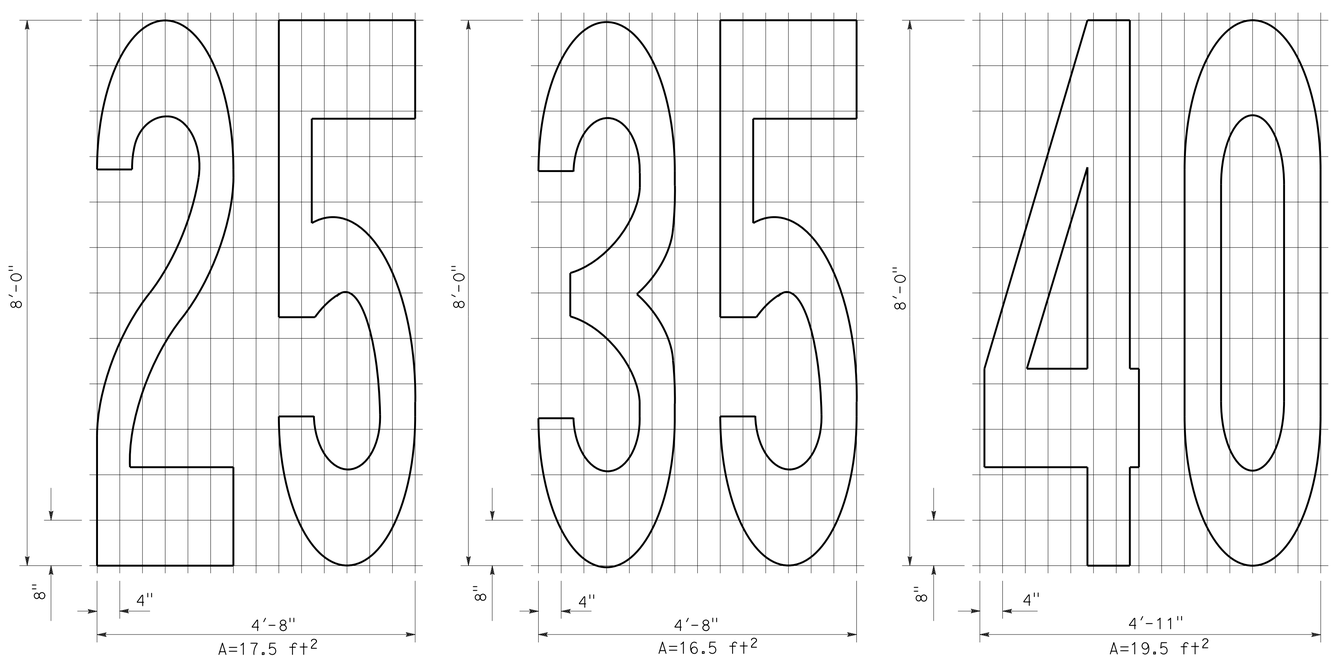
DIAMOND SYMBOL



BICYCLE LOOP DETECTOR SYMBOL



SHARED ROADWAY BICYCLE MARKING



NUMERALS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A24C DATED MAY 20, 2011 - PAGE 15 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24C

2010 REVISED STANDARD PLAN RSP A24C

6-28-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	42	59

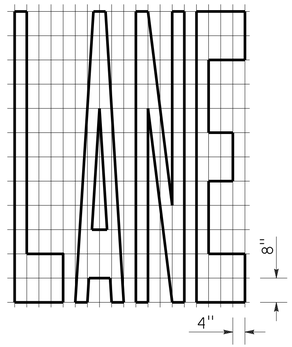
REGISTERED CIVIL ENGINEER

July 20, 2012
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Roberta L. McLaughlin
No. C40375
Exp. 3-31-13
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.

TO ACCOMPANY PLANS DATED 6-17-13



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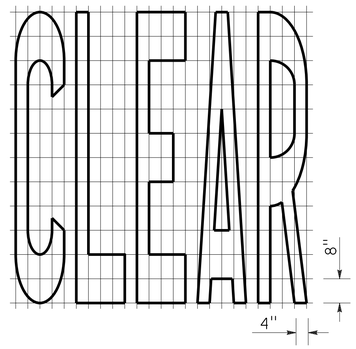

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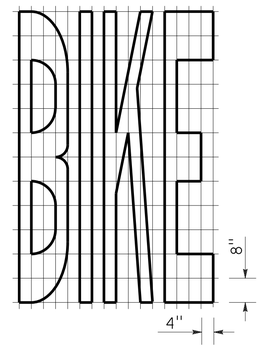

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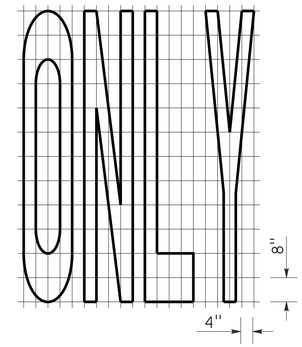

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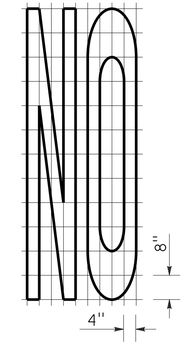

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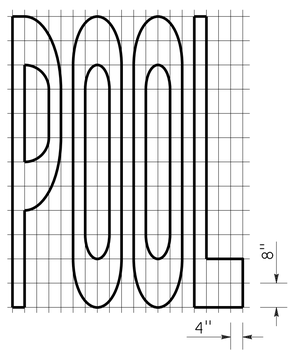

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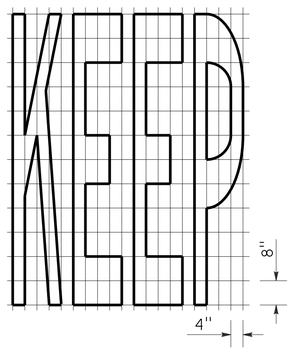

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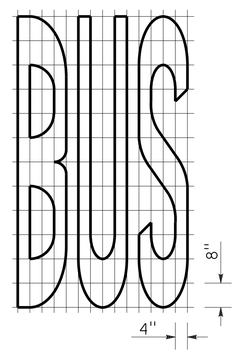
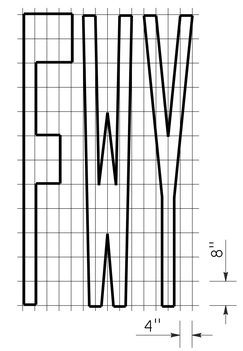
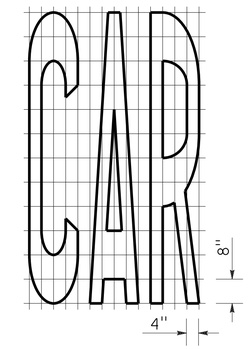


A=20 ft²

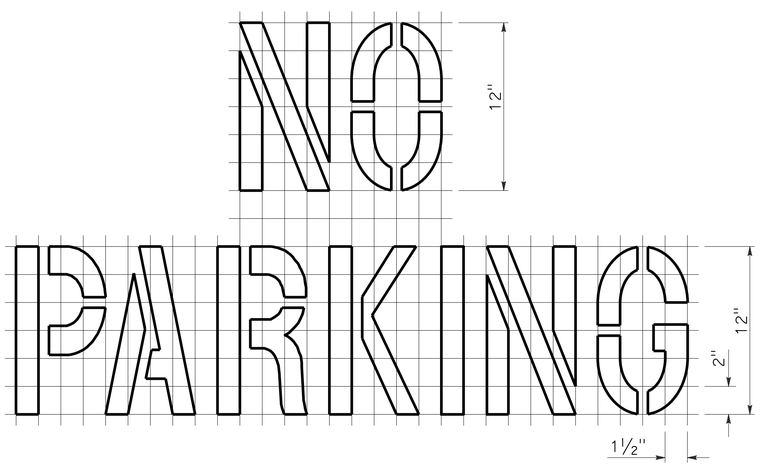


A=16 ft²



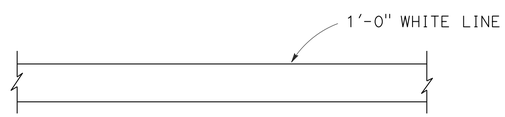
A=17 ft²

WORD MARKINGS			
ITEM	ft²	ITEM	ft²
LANE	24	NO	14
POOL	23	BIKE	21
CAR	17	BUS	20
CLEAR	27	ONLY	22
KEEP	24	FWY	16

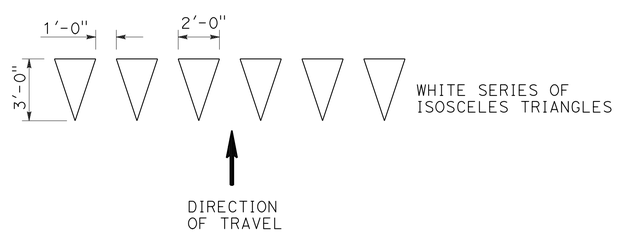


A=2 ft²

See Notes 6 and 7



LIMIT LINE (STOP LINE)



YIELD LINE

NOTES:

1. If a message consists of more than one word, it should read "UP", i.e., the first word should be nearest the driver.
2. The space between words should be at least four times the height of the characters for low speed roads, but not more than ten times the height of the characters. The space may be reduced appropriately where there is limited space because of local conditions.
3. Minor variations in dimensions may be accepted by the Engineer.
4. Portions of a letter, number or symbol may be separated by connecting segments not to exceed 2" in width.
5. The words "NO PARKING" pavement marking is to be used for parking facilities. For typical locations of markings, see Standard Plans A90A and A90B.
6. The words "NO PARKING", shall be painted in white letters no less than 1'-0" high on a contrasting background and located so that it is visible to traffic enforcement officials.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS WORDS, LIMIT AND YIELD LINES

NO SCALE

RSP A24E DATED JULY 20, 2012 SUPERSEDES STANDARD PLAN A24E
DATED MAY 20, 2011 - PAGE 17 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A24E

2010 REVISED STANDARD PLAN RSP A24E

6-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	43	59

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 6-17-13

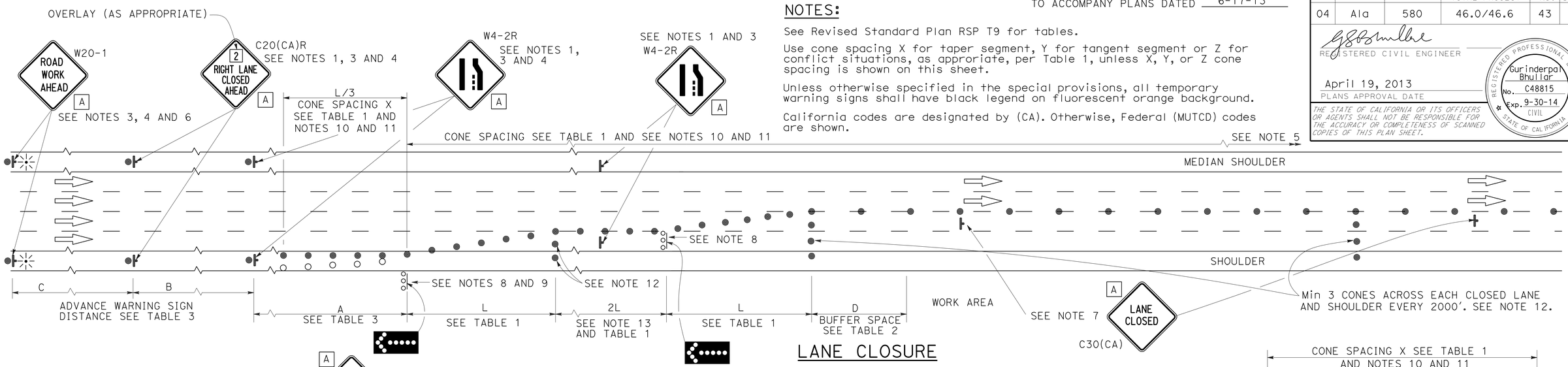
NOTES:

See Revised Standard Plan RSP T9 for tables.

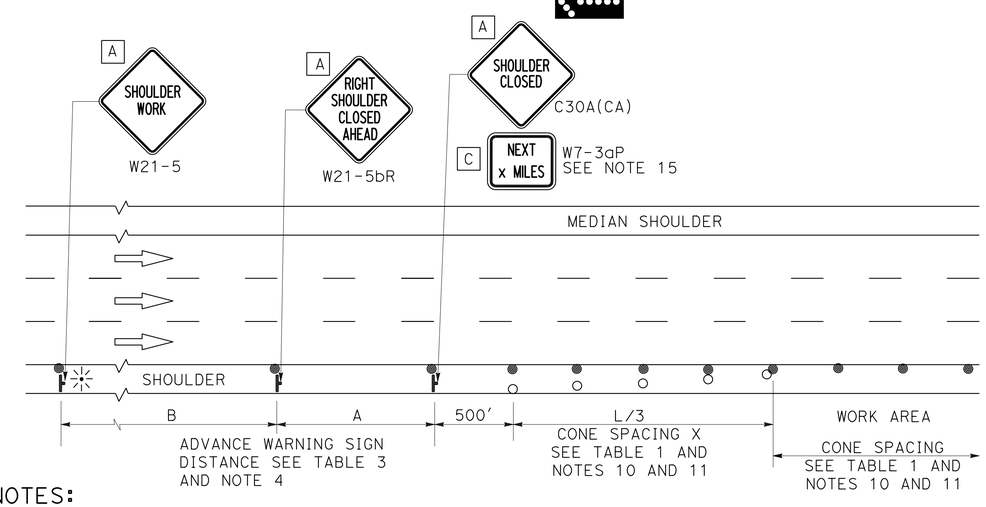
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

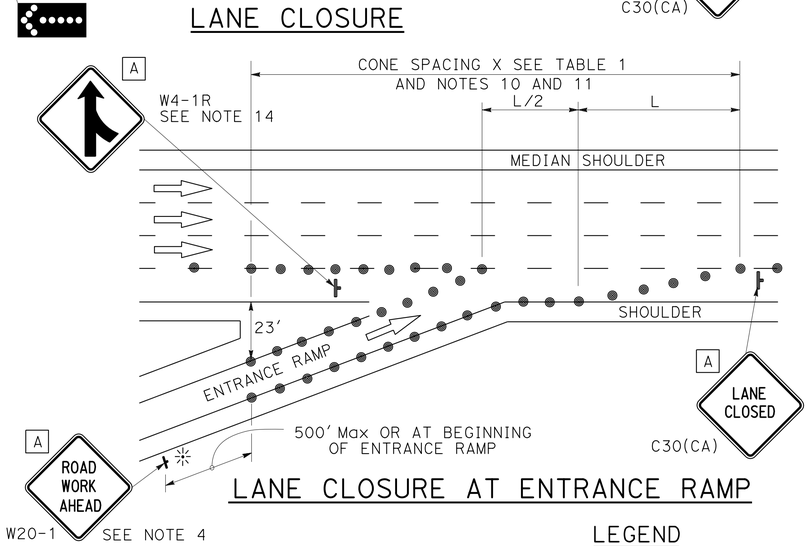
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



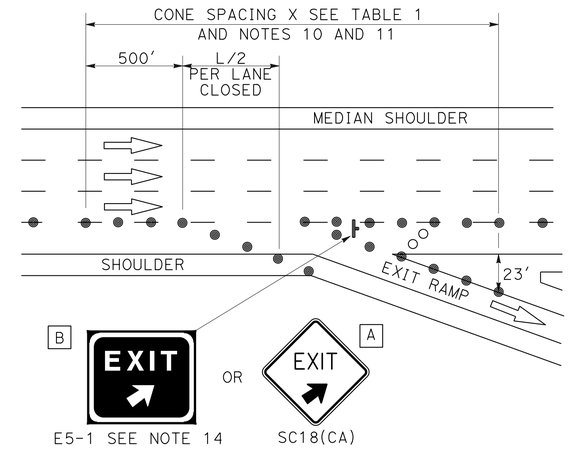
LANE CLOSURE



SHOULDER CLOSURE



LANE CLOSURE AT ENTRANCE RAMP



LANE CLOSURE AT EXIT RAMP

NOTES:

1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L 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 G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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 G20-1 "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 flashing arrow signs shall be Type I.
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 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
15. A W7-3aP "NEXT____ MILES" plaque must be used if theshoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

A	48" x 48"
B	72" x 60"
C	36" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10 DATED MAY 20, 2011 - PAGE 237 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

12-18-12

TO ACCOMPANY PLANS DATED 6-17-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	44	59

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

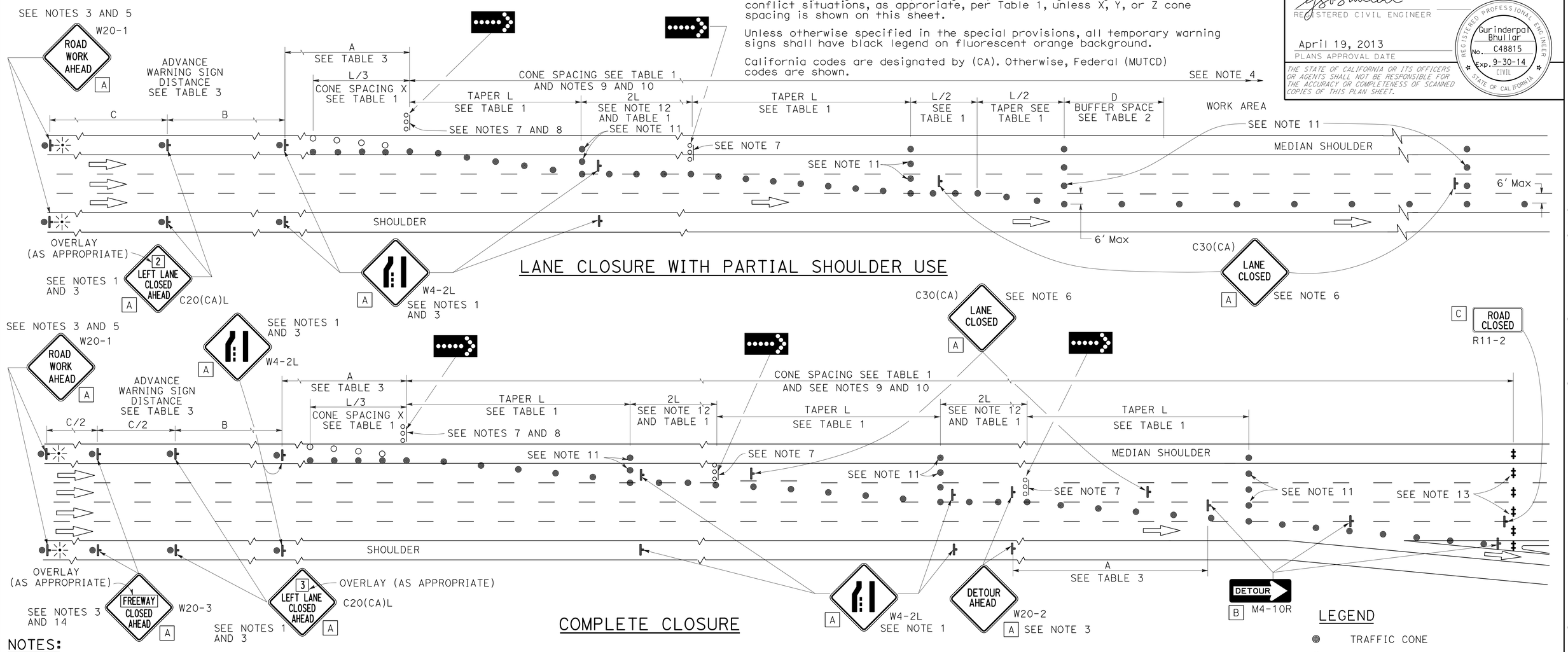
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES: See Revised Standard Plan RSP T9 for tables.

Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

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



LANE CLOSURE WITH PARTIAL SHOULDER USE

COMPLETE CLOSURE

NOTES:

1. Lane closures on the right side using partial median shoulder as a traffic lane shall conform to the details as shown except that C20(CA)R and W4-2R 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. 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.
4. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" 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.
5. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT ___ MILES", use a C20(CA) sign for the first advance warning sign.
6. Place a C30(CA) sign every 2000' throughout length of lane closure.
7. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
8. 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 the top of crest vertical curve or on a horizontal curve.
9. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
10. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
11. 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 With Partial Shoulder Use" 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.
12. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
13. A minimum of Two Type II or III barricades shall be placed across each closed lane and shoulder at the location shown and every 2000' within the complete closure area. Within the complete closure area, the transverse alignment of the barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
14. When specified in the special provisions, a W20-2 "DETOUR AHEAD" sign is to be used in place of the W20-3 "FREEWAY CLOSED AHEAD" sign.

SIGN PANEL SIZE (Min)

A	48" x 48"
B	48" x 18"
C	48" x 30"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURES ON FREEWAYS AND EXPRESSWAYS

NO SCALE

RSP T10A DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T10A DATED MAY 20, 2011 - PAGE 238 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T10A

2010 REVISED STANDARD PLAN RSP T10A

12-18-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	45	59

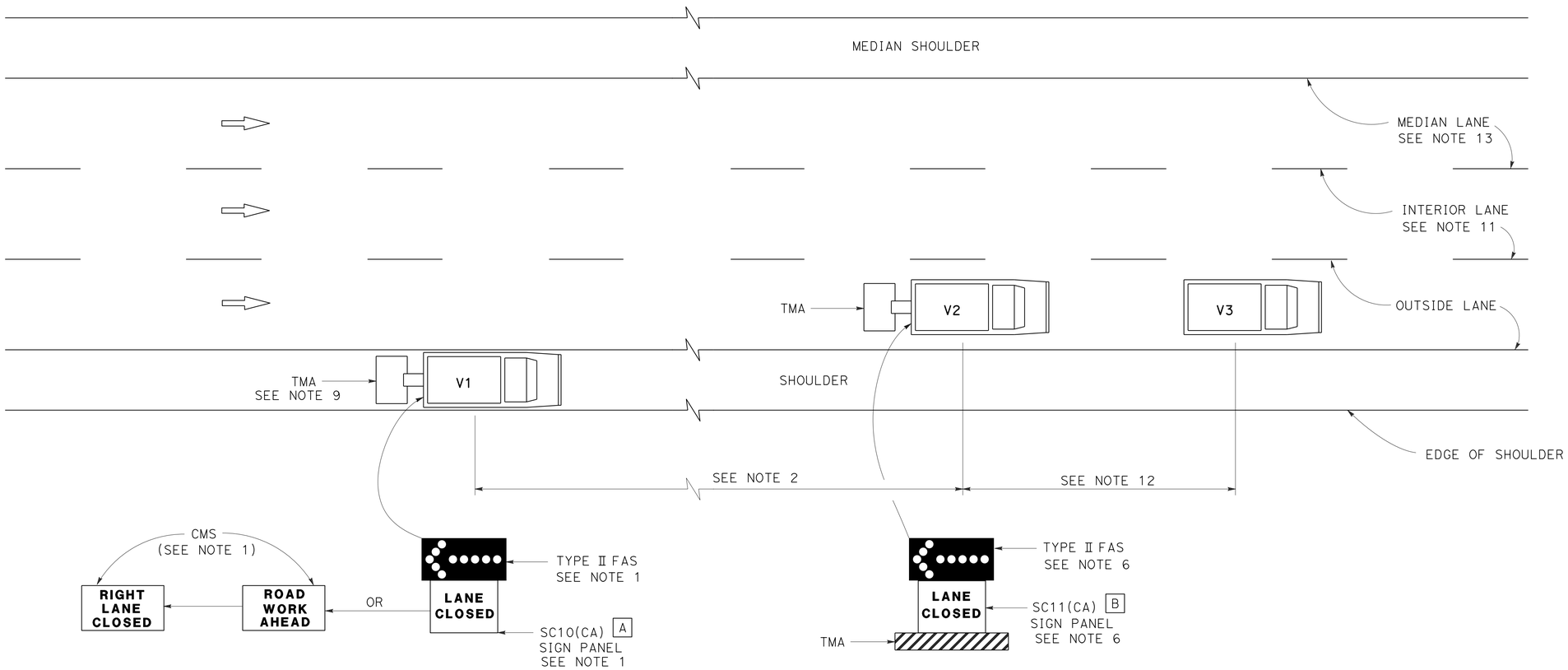
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Gurinderpal Bhullar No. C48815 Exp. 9-30-14 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.

TO ACCOMPANY PLANS DATED 6-17-13



MOVING LANE CLOSURE ON MEDIAN LANE OR OUTSIDE LANE OF MULTILANE HIGHWAYS

SIGN PANEL SIZE (Min)

A 66" x 36"

B 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS)
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

NOTES:

1. Either a changeable message sign or a SC10(CA) sign panel and a Type II flashing arrow sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "RIGHT LANE CLOSED" message. For median lane closure, the flashing arrow symbol shall be reversed with the arrowhead on the right and the changeable message sign shall show "LEFT LANE CLOSED".
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2. For median lane closure the flashing arrow sign symbol shall be displayed with the arrowhead on the right.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11, etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on interior lane of multilane highways, use Revised Standard Plan T16.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.
13. When the work/application vehicle V3 occupies the median lane, sign vehicle V1 should drive in the median shoulder and indicate left lane closed ahead.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T15 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T15
DATED MAY 20, 2011 - PAGE 243 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T15

2010 REVISED STANDARD PLAN RSP T15

12-18-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	46	59

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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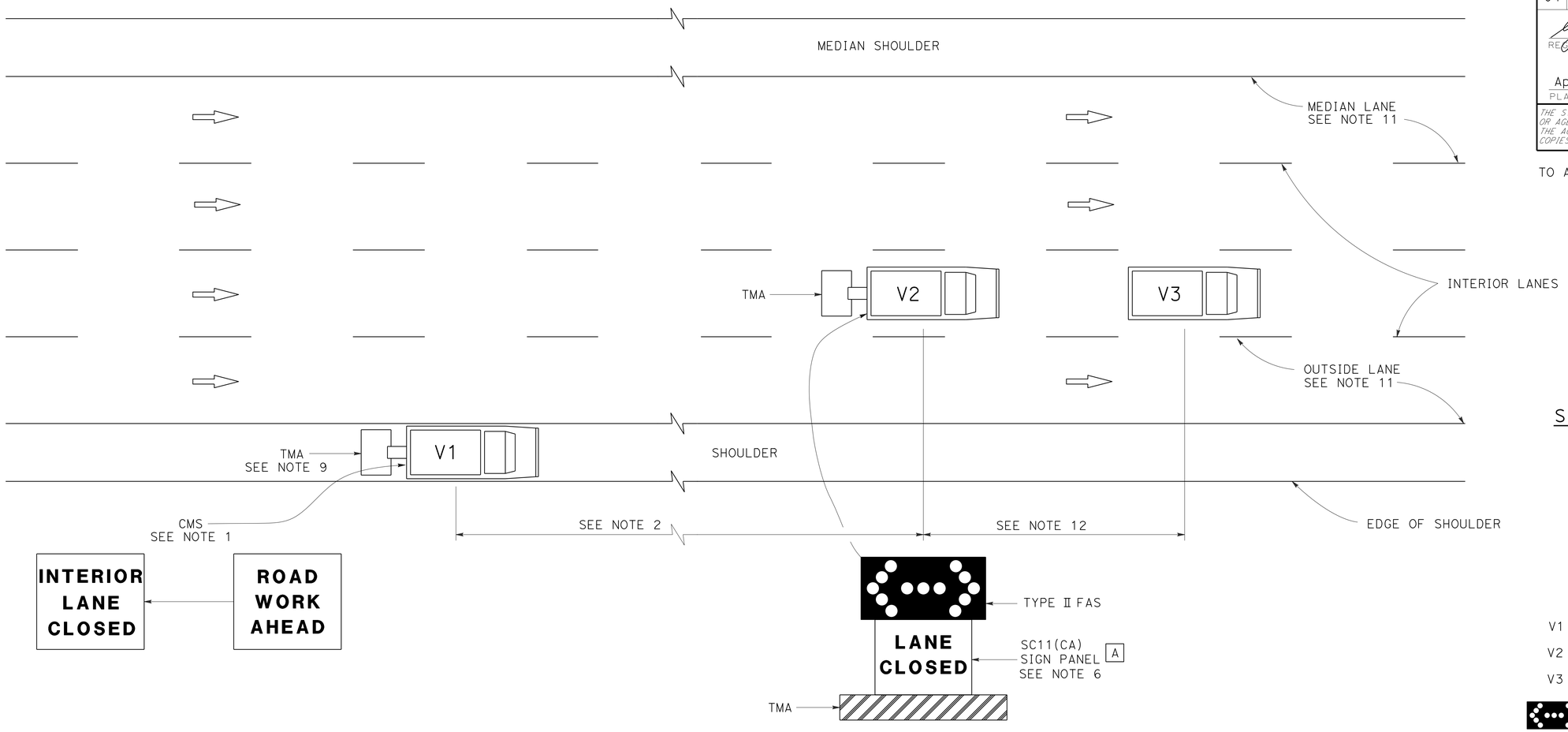
TO ACCOMPANY PLANS DATED 6-17-13

2010 REVISED STANDARD PLAN RSP T16



SIGN PANEL SIZE (Min)

A 54" x 42"

LEGEND

V1	SIGN VEHICLE
V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	FLASHING ARROW SIGN (FAS) IN FLASHING DOUBLE ARROW MODE
CMS	CHANGEABLE MESSAGE SIGN
TMA	TRUCK-MOUNTED ATTENUATOR

MOVING LANE CLOSURE ON INTERIOR LANE OF MULTILANE HIGHWAYS

NOTES:

1. A changeable message sign shall be mounted on the rear of sign vehicle V1. The changeable message sign shall be sequenced to show the "ROAD WORK AHEAD" message first, followed by the "INTERIOR LANE CLOSED" message. The message "CENTER LANE CLOSED" may be used in place of the "INTERIOR LANE CLOSED" message.
2. If traffic queues develop, sign vehicle V1 should be positioned upstream from the end of queue. Sign vehicle V1 shall be positioned where highly visible when shoulders are not available.
3. A minimum sight distance of 1500′ should be provided in advance of sign vehicle V1.
4. Sign vehicle V1 should remain at the beginning of horizontal or vertical curves until the other vehicles (V2 and V3) are far enough beyond the curve to resume the minimum sight distance of 1500′.
5. Vehicle-mounted sign panels shall have Type III or above retroreflective sheeting, black on white, or black on fluorescent orange, with 6" minimum series D letters per Caltrans sign specifications.
6. Shadow vehicle V2 shall be equipped with a truck-mounted attenuator. The sign panel shown and a Type II flashing arrow sign shall be mounted on the rear of shadow vehicle V2.
7. All vehicles used for lane closures shall be equipped with two-way radios, and the vehicle operators shall maintain communication during the work or application operation.
8. All vehicles shall be equipped with flashing or rotating amber lights.
9. If sign vehicle V1 encroaches into the traffic lane due to insufficient shoulder width, sign vehicle V1 shall be equipped with a truck-mounted attenuator. Sign vehicle V1 shall stay as close to the edge of shoulder as practicable.
10. Where workers would be on foot in the work area, a stationary type lane closure (Revised Standard Plan T10, T11 etc., as applicable) shall be used instead of this plan.
11. For moving lane closure on median lane or outside lane of multilane highways, use Revised Standard Plan T15.
12. The spacing between work vehicle(s) and the shadow vehicles, and between each shadow vehicle should be minimized to deter road users from driving in between.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR MOVING LANE CLOSURE ON MULTILANE HIGHWAYS

NO SCALE

RSP T16 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T16
DATED MAY 20, 2011 - PAGE 244 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T16

12-18-12

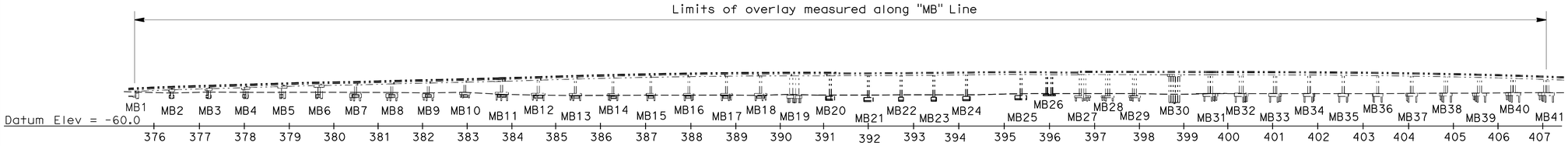
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	47	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
QI ZHAO
No. 62197
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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



QUANTITIES

PUBLIC SAFETY PLAN	LUMP	SUM
RAPID SETTING CONCRETE (PATCH)	3,050	CF
REMOVE CONCRETE DECK SURFACE	23,100	SQFT
REMOVE UNSOUND CONCRETE	3,050	CF
PREPARE CONCRETE BRIDGE DECK SURFACE	243,900	SQFT
FURNISH POLYESTER CONCRETE OVERLAY	15,300	CF
PLACE POLYESTER CONCRETE OVERLAY	243,900	SQFT
BRIDGE REMOVAL (PORTION)	LUMP	SUM
STRUCTURAL CONCRETE, BRIDGE	2.5	CY
CLEAN EXPANSION JOINT	4,750	LF
JOINT SEAL (MR 1")	913	LF
JOINT SEAL (MR 1½")	1,832	LF
JOINT SEAL ASSEMBLY (MR 6")	18	LF
JOINT SEAL (TYPE AL)	2,003	LF
BAR REINFORCING STEEL (BRIDGE)	250	LB
MISCELLANEOUS METAL (BRIDGE)	4,900	LB

DEVELOPED ELEVATION

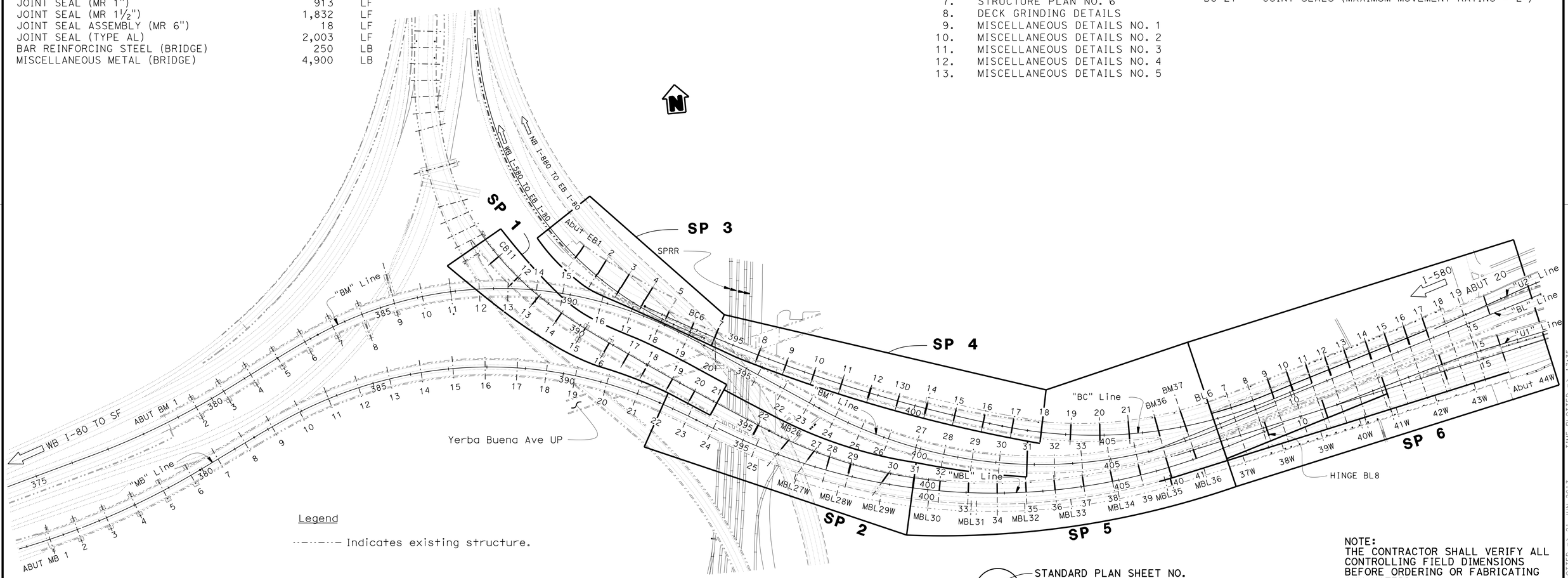
1"=125'

INDEX TO PLANS

1. GENERAL PLAN
2. STRUCTURE PLAN NO. 1
3. STRUCTURE PLAN NO. 2
4. STRUCTURE PLAN NO. 3
5. STRUCTURE PLAN NO. 4
6. STRUCTURE PLAN NO. 5
7. STRUCTURE PLAN NO. 6
8. DECK GRINDING DETAILS
9. MISCELLANEOUS DETAILS NO. 1
10. MISCELLANEOUS DETAILS NO. 2
11. MISCELLANEOUS DETAILS NO. 3
12. MISCELLANEOUS DETAILS NO. 4
13. MISCELLANEOUS DETAILS NO. 5

STANDARD PLANS DATED 2010

A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")



STANDARD PLAN SHEET NO.

DETAIL NO.

PLAN

1"=125'

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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
GENERAL PLAN

Minh Ha
DESIGN ENGINEER

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

LOAD & RESISTANCE FACTOR DESIGN — LIVE LOADING: HL93 W/"LOW-BOY": PERMIT DESIGN VEHICLE

	BY	CHECKED
LAYOUT	Jeff Thorne	Qi Zhao
SPECIFICATIONS	Tina Chen	PLANS AND SPECS COMPARED: Tina Chen

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 1-11-12 10-31-12 11-19-12 12-10-12

SHEET 1 OF 13

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	48	59

REGISTERED CIVIL ENGINEER — DATE 2-28-13

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — QI ZHAO — No. 62197 — Exp. 9-30-13 — CIVIL — STATE OF CALIFORNIA

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

Legend

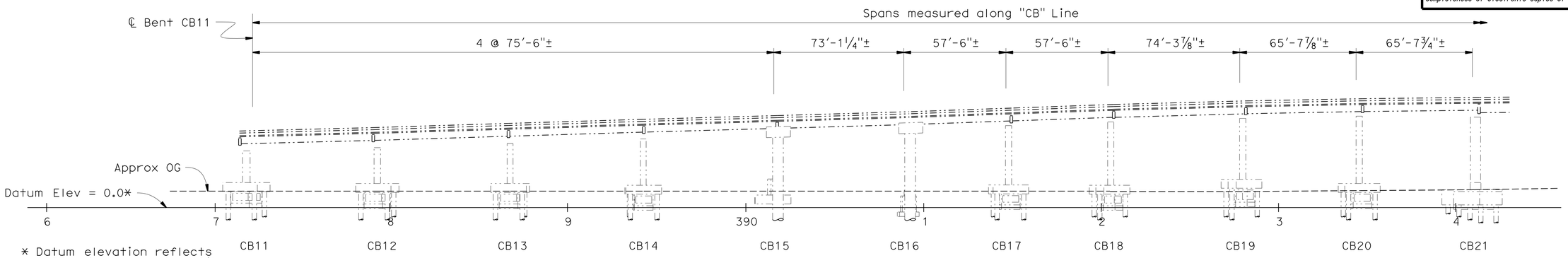
Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare conrete brdge deck surface and place new ¾" min. depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.

Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.

Indicates existing structure.

(A) — Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.

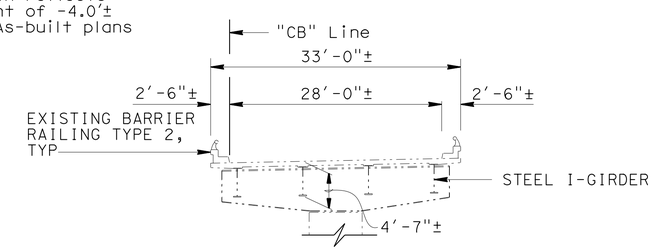
Type A, B, C, D-2 or D-2 Modified



* Datum elevation reflects 1993 adjustment of -4.0'± between 1953 As-built plans

ELEVATION

1" = 30'



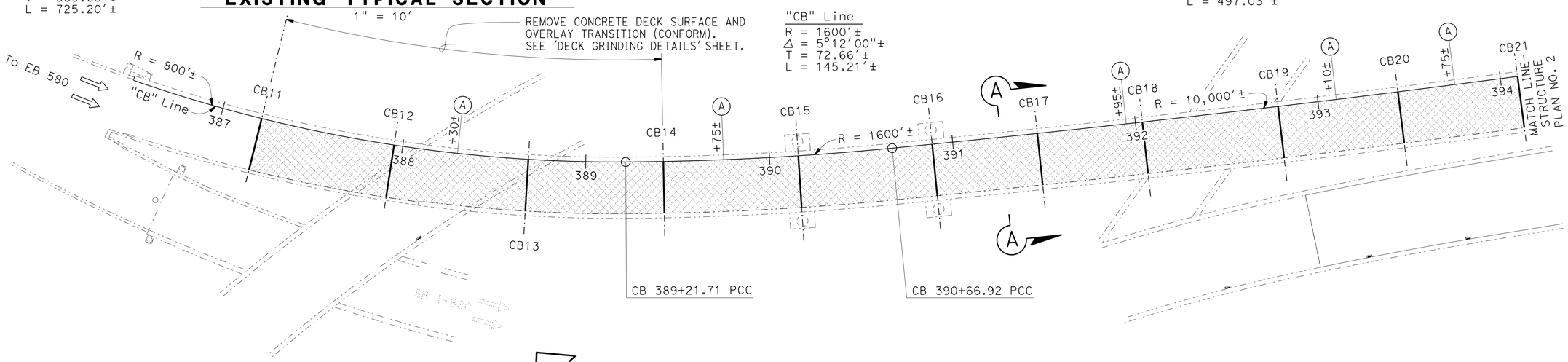
(SECTION A-A) EXISTING TYPICAL SECTION

1" = 10'

"CB" Line
R = 800'±
Δ = 51°56'18"±
T = 389.65'±
L = 725.20'±

"CB" Line
R = 1600'±
Δ = 5°12'00"±
T = 72.66'±
L = 145.21'±

"CB" Line
R = 10,000'±
Δ = 2°50'52"±
T = 248.57'±
L = 497.03'±



PLAN

1" = 30'

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

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
STRUCTURE PLAN NO. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 12-10-12 1-4-13 8-8-12 11-14-12

SHEET 2 OF 13

FILE => 33-0061r-a-sp01_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:35

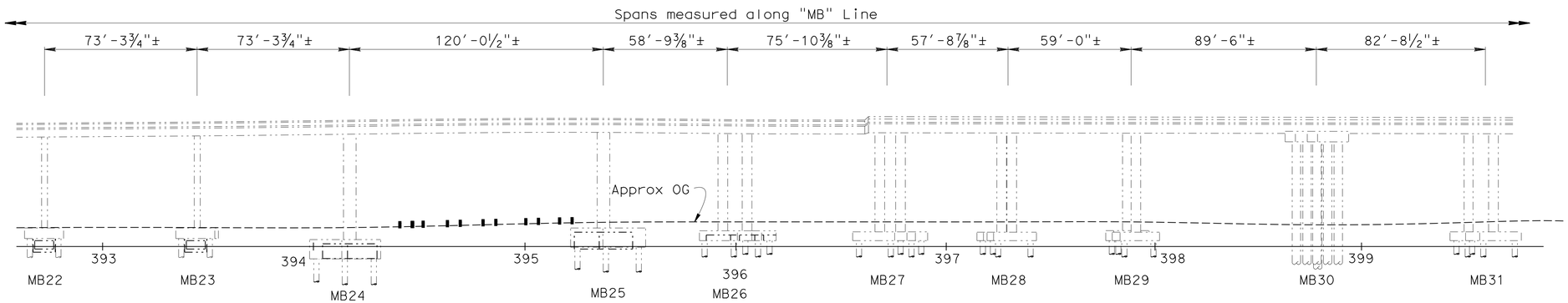
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	49	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER QI ZHAO No. 62197 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

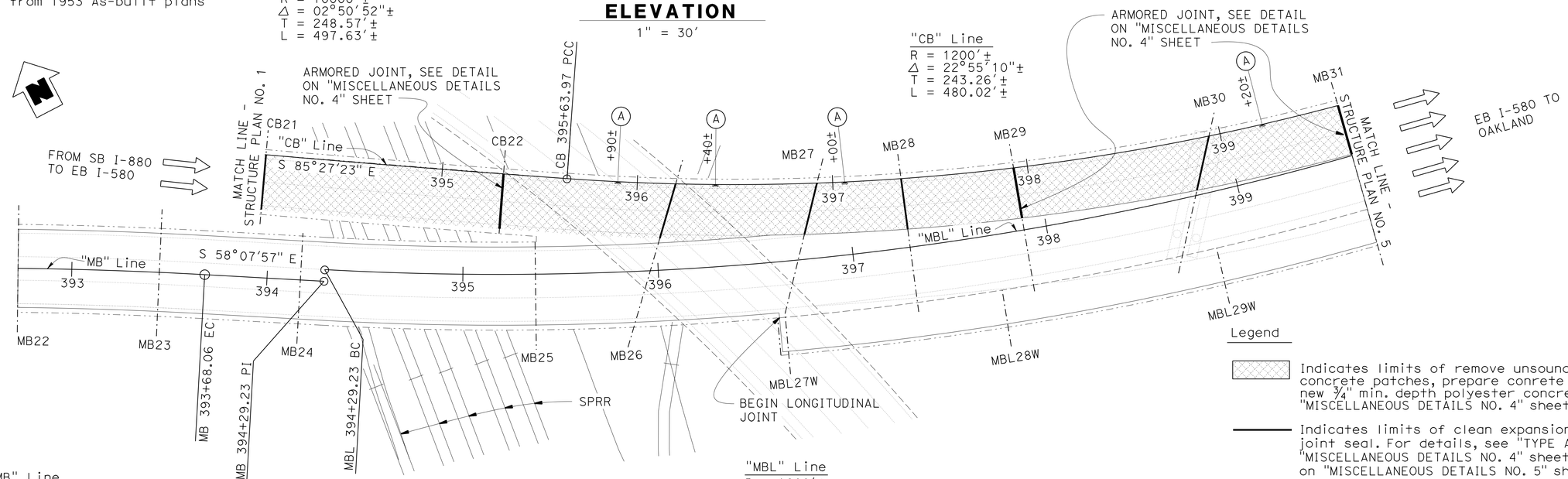


* Datum Elevation reflects 1993 adjustment of -4.0'± from 1953 As-built plans

"CB" Line
R = 10000'±
Δ = 02°50'52"±
T = 248.57'±
L = 497.63'±

ELEVATION
1" = 30'

Note: "MBL" columns and footings not shown in 'Elevation' view



"MB" Line
R = 2200'±
Δ = 02°45'00"±
T = 52.81'±
L = 105.59'±

"MBL" Line
R = 1600'±
Δ = 48°30'00"±
T = 720.75'±
L = 1354.38'±

PLAN
1" = 30'

Legend

Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare conrete bridge deck surface and place new ¾" min. depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.

Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.

Indicates existing structure.

(A) — Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.

Type A, B, C, D-2 or D-2 Modified

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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
STRUCTURE PLAN NO. 2

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES
REVISION DATES 11-18-12 12-16-12 1-3-13 10-31-13
SHEET 3 OF 13

FILE => 33-0061r-a-sp02_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:35

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	50	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
QI ZHAO
No. 62197
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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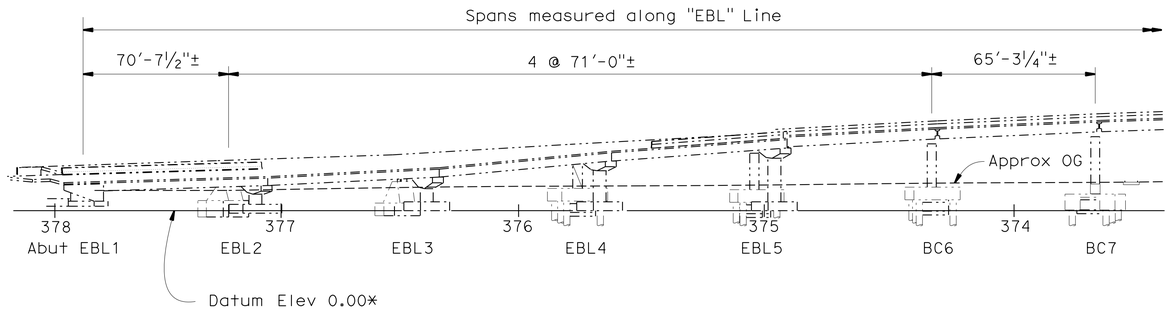
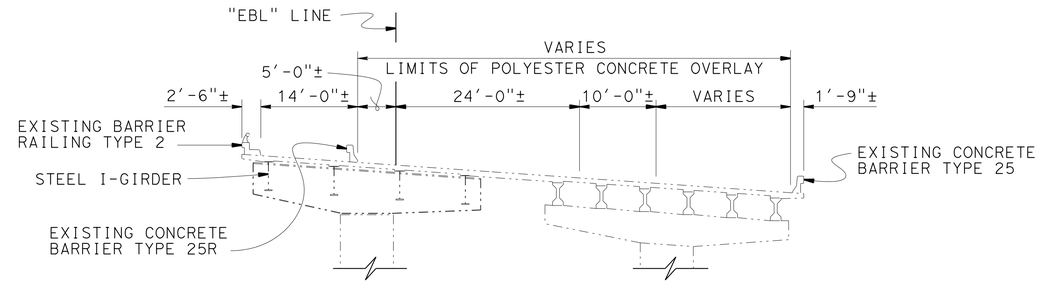


* Datum elevation reflects 1993 adjustment of -4.0'± between 1953 As-built plans

MIRROR ELEVATION

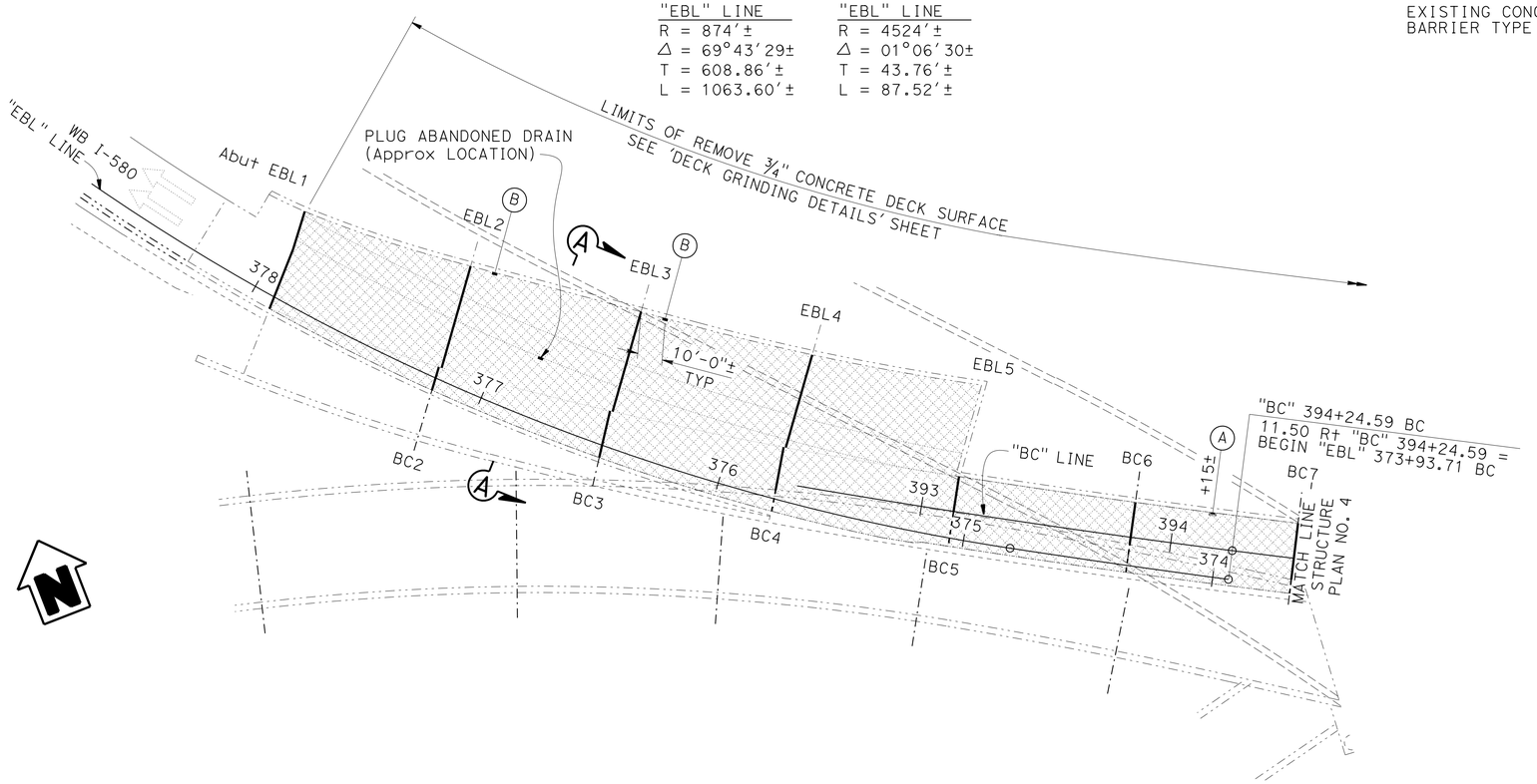
1" = 30'



(SECTION A-A) EXISTING TYPICAL SECTION

1" = 10'

"EBL" LINE	"EBL" LINE
R = 874'±	R = 4524'±
Δ = 69°43'29±	Δ = 01°06'30±
T = 608.86'±	T = 43.76'±
L = 1063.60'±	L = 87.52'±



PLAN

1" = 30'

Legend

Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare conrete bridge deck surface and place new ¾" min. depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.

Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.

Indicates existing structure.

(A) — Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.

Type A, B, C, D-2 or D-2 Modified

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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
STRUCTURE PLAN NO. 3

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 11-19-12 12-10-12 1-3-13 8-6-12

SHEET 4 OF 13

FILE => 33-0061r-a-sp03_p2.dgn

USERNAME => s121614 DATE PLOTTED => 22-JUN-2013 TIME PLOTTED => 07:19

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	51	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
QI ZHAO
No. 62197
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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

Legend

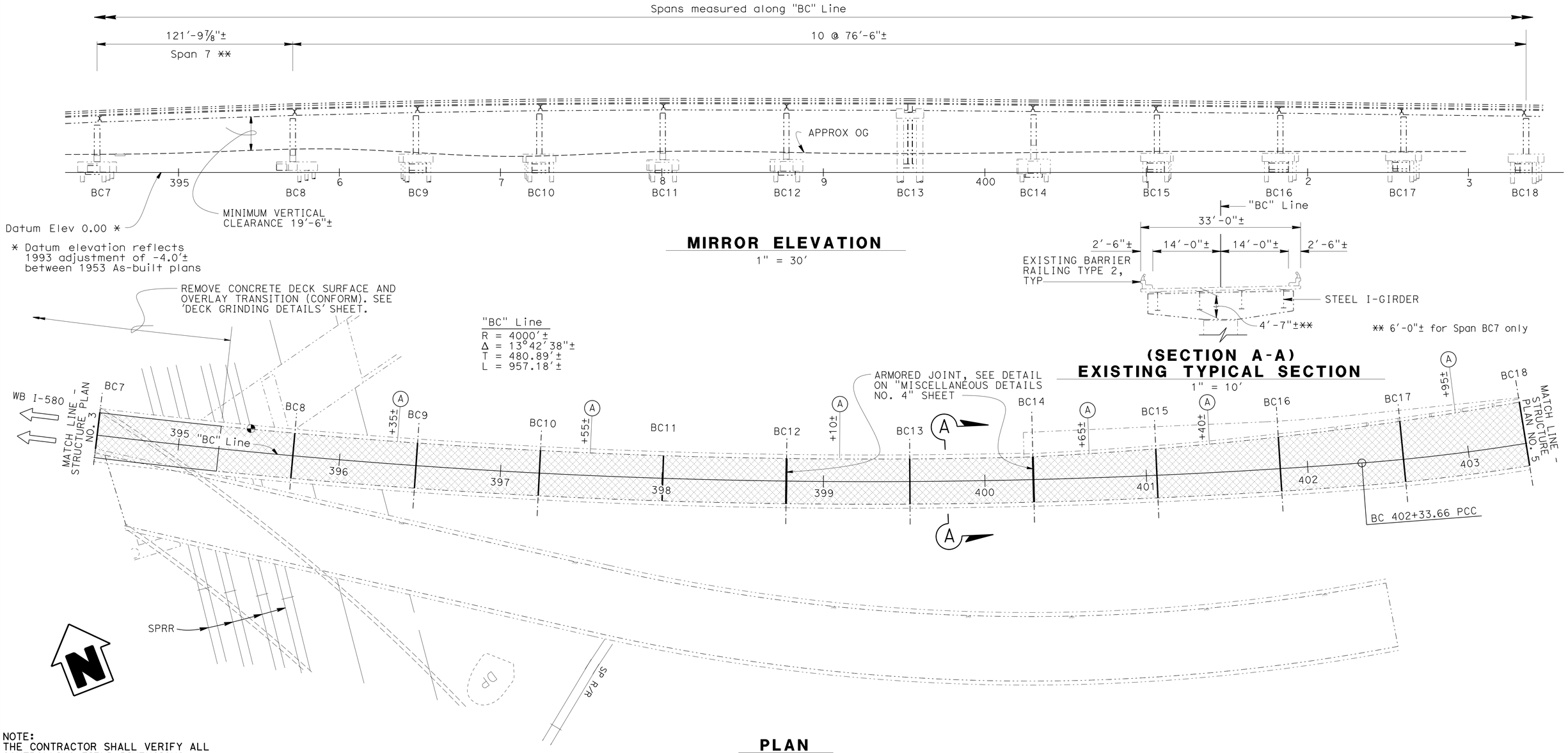
Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare conrete bridge deck surface and place new ¾" min. depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.

Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.

Indicates existing structure.

(A) — Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.
Type A, B, C, D-2 or D-2 Modified

— Indicate point of minimum vertical clearance.



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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
STRUCTURE PLAN NO. 4

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 11-19-12 12-10-12 1-3-13 8-2-12

SHEET 5 OF 13

FILE => 33-0061r-a-sp04_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	52	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER QI ZHAO No. 62197 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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

Legend

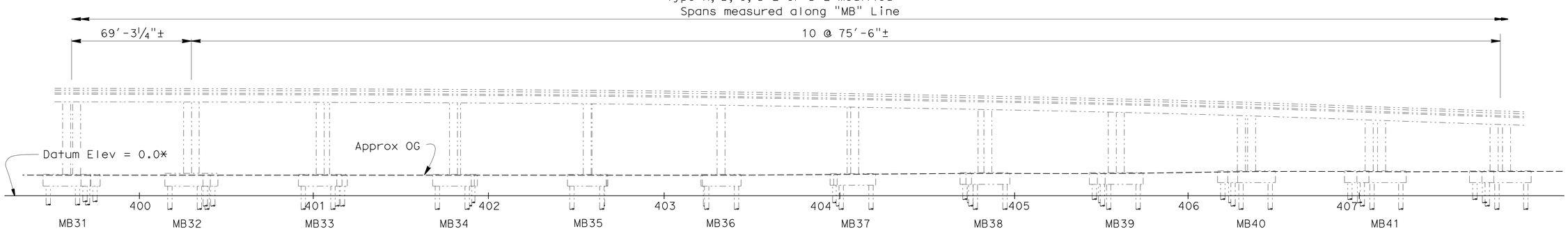
Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare conrete bridge deck surface and place new ¾" min. depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.

Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.

Indicates existing structure.

(A) – Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.

Type A, B, C, D-2 or D-2 Modified
Spans measured along "MB" Line



ELEVATION

1" = 30'

Note: "MBL" and "BM" columns and footings not shown in 'Elevation' view.

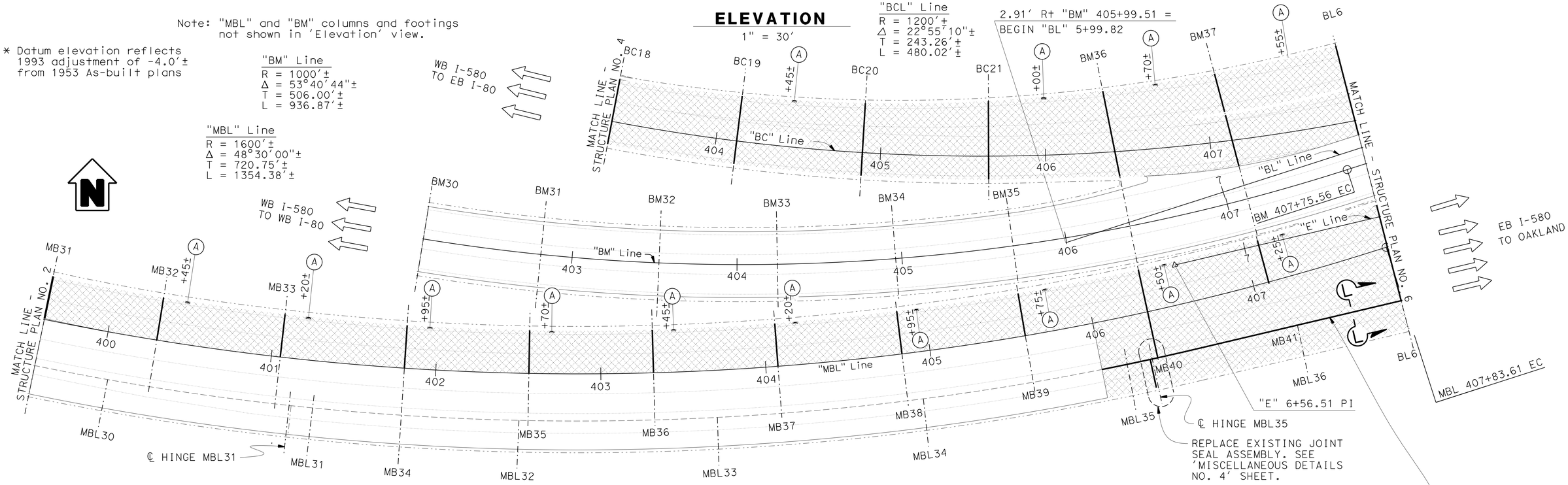
* Datum elevation reflects 1993 adjustment of -4.0'± from 1953 As-built plans

"BM" Line
R = 1000'±
Δ = 53°40'44"±
T = 506.00'±
L = 936.87'±

"MBL" Line
R = 1600'±
Δ = 48°30'00"±
T = 720.75'±
L = 1354.38'±

"BCL" Line
R = 1200'±
Δ = 22°55'10"±
T = 243.26'±
L = 480.02'±

2.91' R+ "BM" 405+99.51 =
BEGIN "BL" 5+99.82



NOTE
For "SECTION L-L" see 'MISCELLANEOUS DETAILS NO. 5' sheet.

PLAN

1" = 30'

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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
STRUCTURE PLAN NO. 5

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 1-3-13 8-2-12 10-31-12 12-12-12

SHEET 6 OF 13

FILE => 33-0061r-a-sp05_p2.dgn

USERNAME => DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	53	59

REGISTERED CIVIL ENGINEER — DATE 2-28-13

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — QI ZHAO — No. 62197 — Exp. 9-30-13 — CIVIL — STATE OF CALIFORNIA

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

Legend

Indicates limits of remove unsound concrete, place rapid setting concrete patches, prepare conrete bridge deck surface and place new ¾" min. depth polyester concrete overlay. For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.

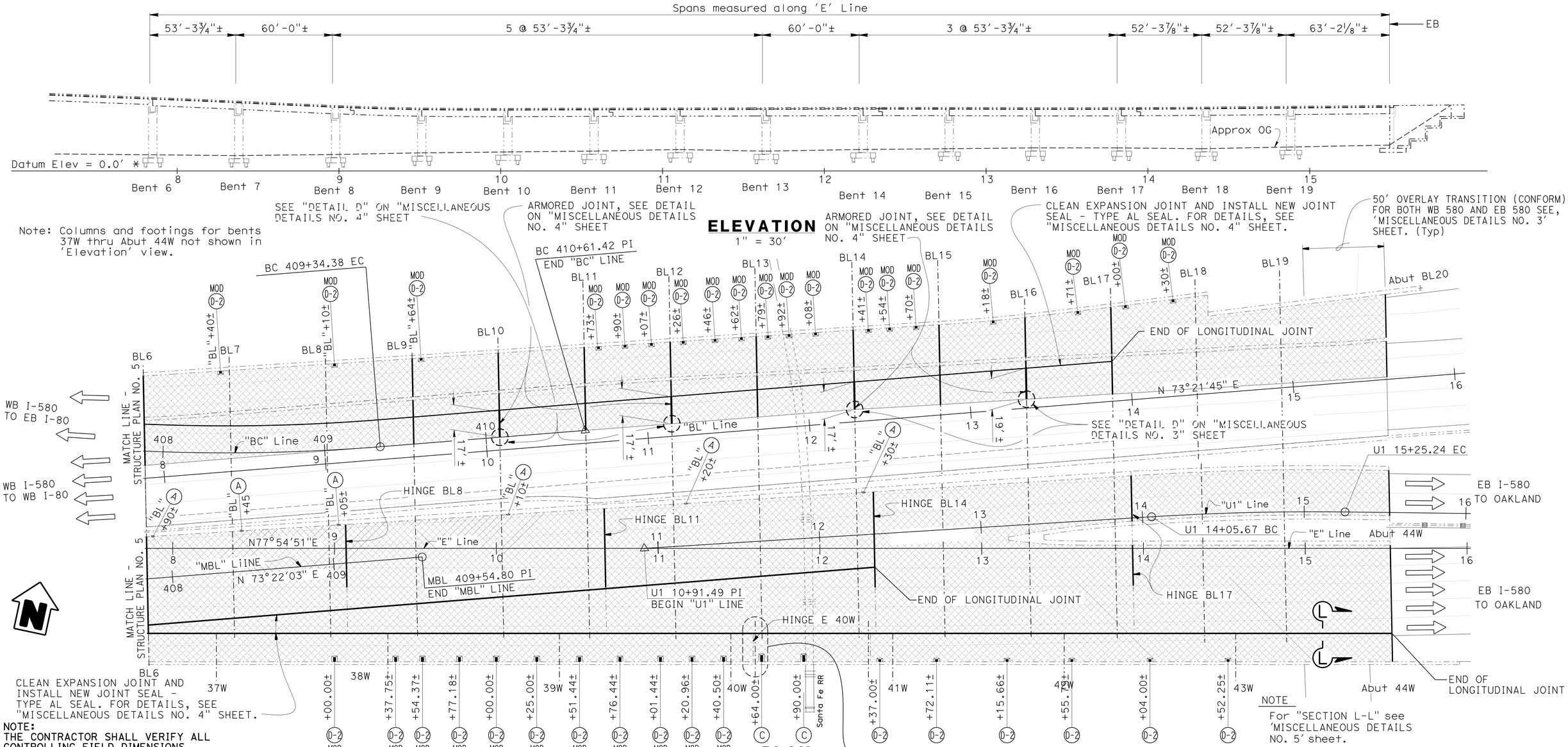
Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.

Indicates existing structure.

(A) — Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.

Type A, B, C, D-2 or D-2 Modified

Spans measured along 'E' Line



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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
STRUCTURE PLAN NO. 6

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 1-3-13 3-12-12 8-2-12 12-18-12

SHEET 7 OF 13

FILE => 33-0061r-a-sp06_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	54	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER QI ZHAO No. 62197 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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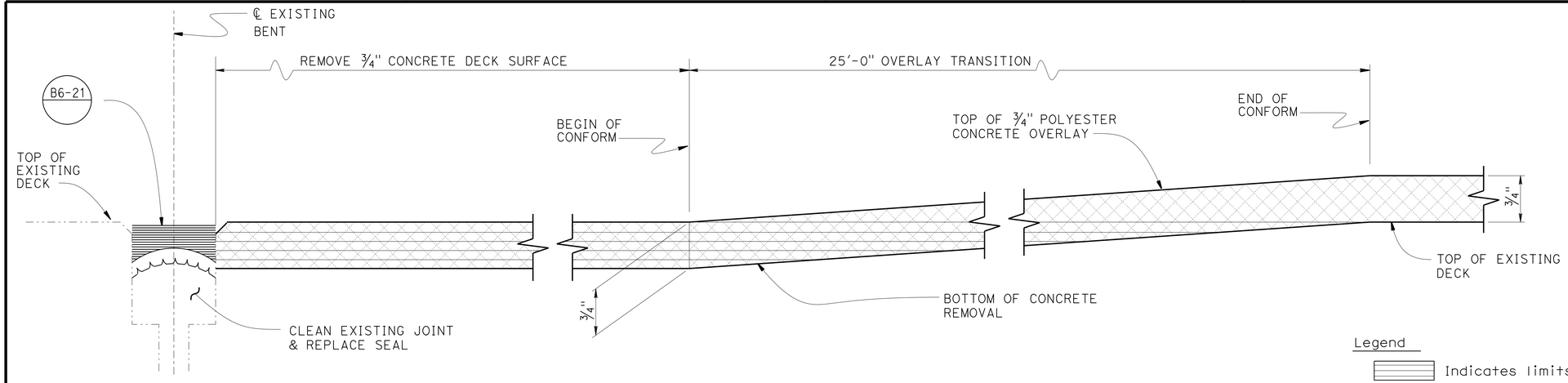


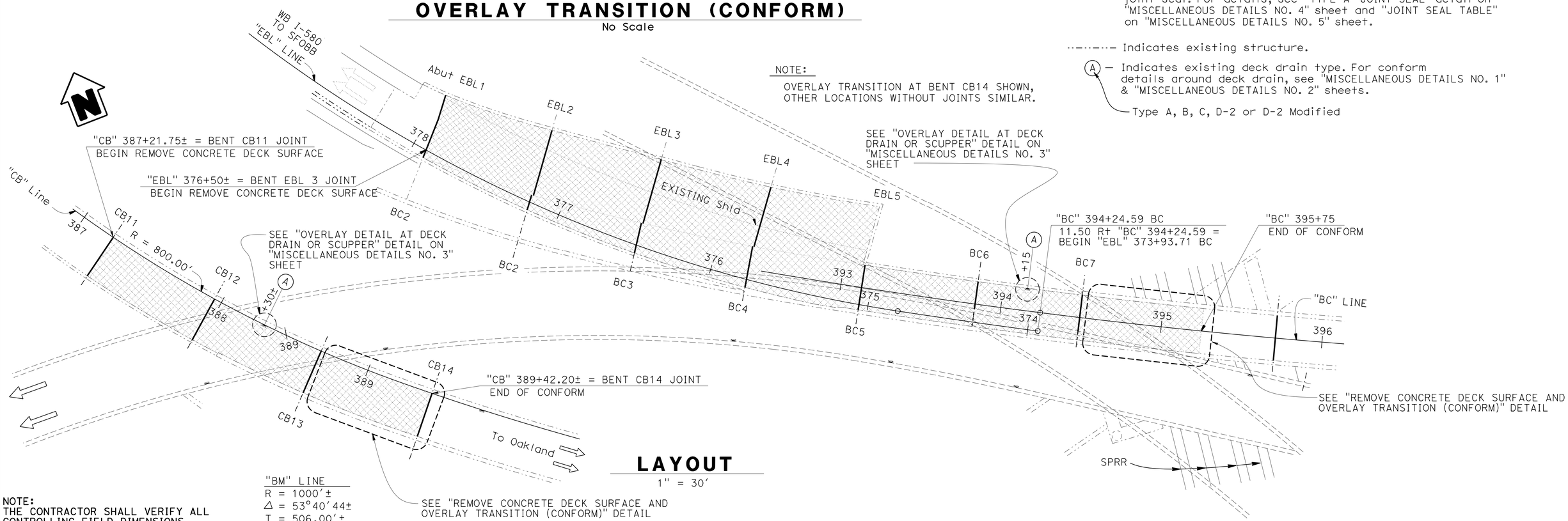
REMOVE CONCRETE DECK SURFACE AND OVERLAY TRANSITION (CONFORM)

No Scale

Legend

- Indicates limits of remove concrete deck surface.
- Indicates limits of remove unsound concrete, place rapid setting concrete patches, remove concrete deck surface, prepare concrete bridge deck surface and place new ¾" min. depth polyester concrete overlay . For details, see "MISCELLANEOUS DETAILS NO. 4" sheet.
- Indicates limits of clean expansion joint and install new joint seal. For details, see "TYPE A" JOINT SEAL" detail on "MISCELLANEOUS DETAILS NO. 4" sheet and "JOINT SEAL TABLE" on "MISCELLANEOUS DETAILS NO. 5" sheet.
- Indicates existing structure.
- (A) — Indicates existing deck drain type. For conform details around deck drain, see "MISCELLANEOUS DETAILS NO. 1" & "MISCELLANEOUS DETAILS NO. 2" sheets.
  - Type A, B, C, D-2 or D-2 Modified

NOTE:
OVERLAY TRANSITION AT BENT CB14 SHOWN, OTHER LOCATIONS WITHOUT JOINTS SIMILAR.



LAYOUT

1" = 30'

"BM" LINE
R = 1000'±
Δ = 53°40'44±
T = 506.00'±
L = 936.87'±

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

	BY	CHECKED
DESIGN	Qi Zhao	Li Barnard
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
DECK GRINDING DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 12-20-12 1-4-13 8-2-13 11-21-13

SHEET 8 OF 13

FILE => 33-0061r-kg-grnddts_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	55	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER QI ZHAO No. 62197 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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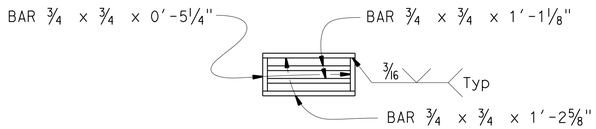
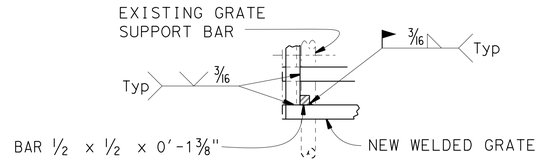
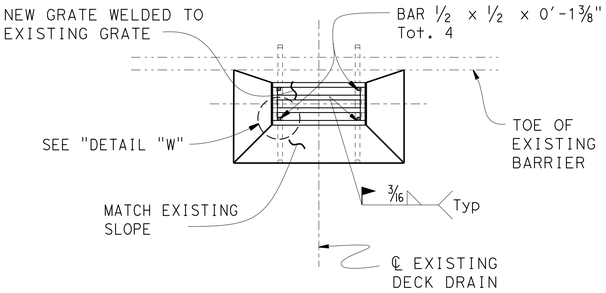


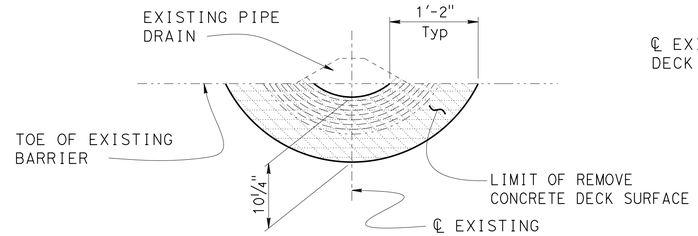
NEW WELDED GRATE



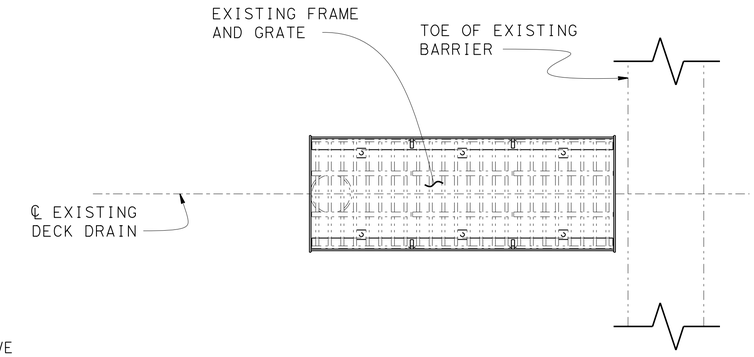
DETAIL "W"
3" = 1'-0"



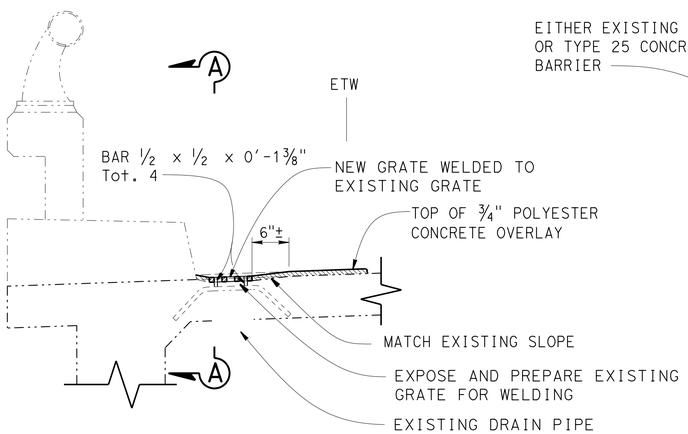
PLAN



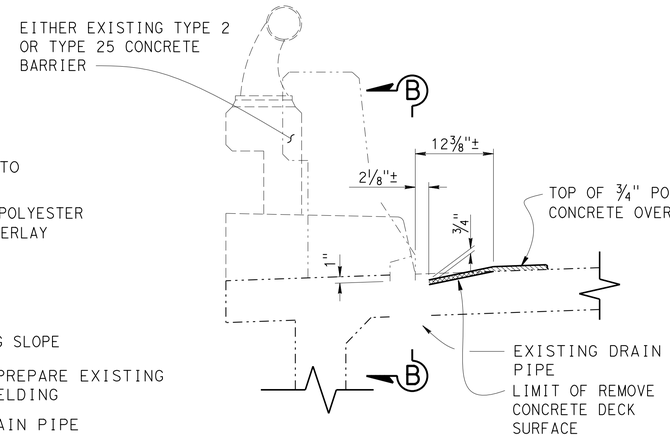
PLAN



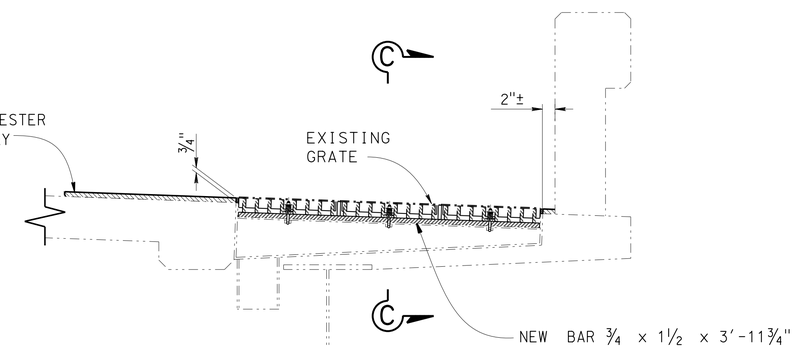
PLAN



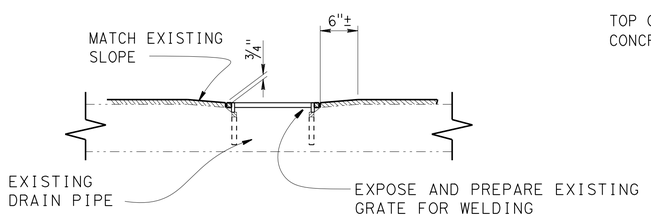
PART TYPICAL SECTION



PART TYPICAL SECTION

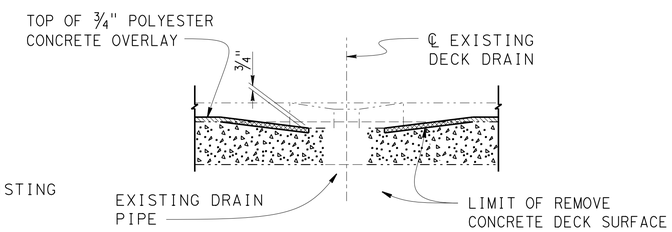


PART TYPICAL SECTION



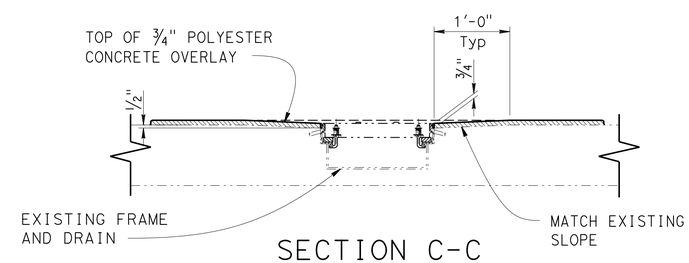
SECTION A-A

EXISTING TYPE A DRAIN OVERLAY TRANSITION (CONFORM)
1" = 1'-0"



SECTION B-B

EXISTING TYPE B DRAIN OVERLAY TRANSITION (CONFORM)
1" = 1'-0"



SECTION C-C

EXISTING TYPE C DRAIN OVERLAY TRANSITION (CONFORM)
1" = 1'-0"

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

Note:
For location of Deck Drain, Deck Closure Drain and Scupper see "STRUCTURE PLAN" sheets.

	BY	CHECKED
DESIGN	Peter Soin	Qi Zhao
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
MISCELLANEOUS DETAILS NO. 1

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 12-16-12 2-4-13 2-19-13 10-31-13

SHEET 9 OF 13

FILE => 33-0061r-kg-mscdts01_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 11:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	56	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
QI ZHAO
No. 62197
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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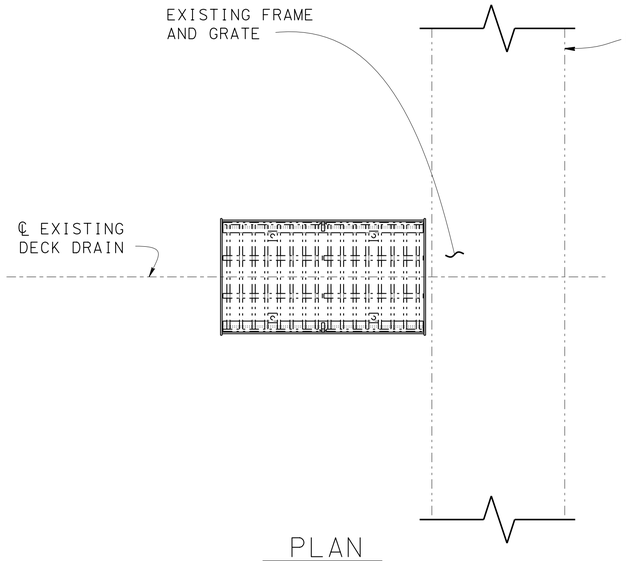
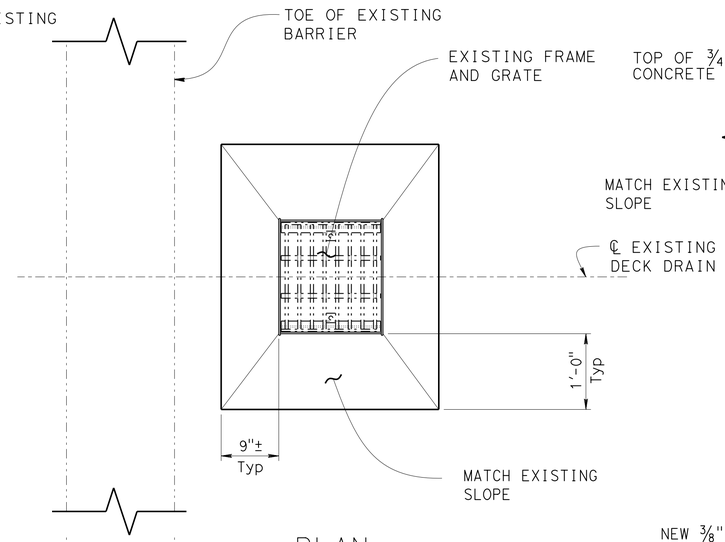
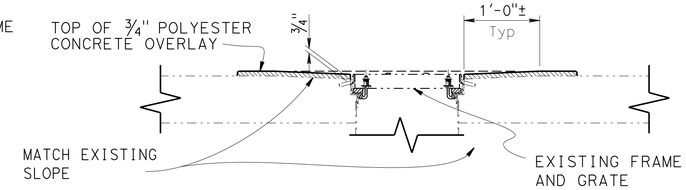


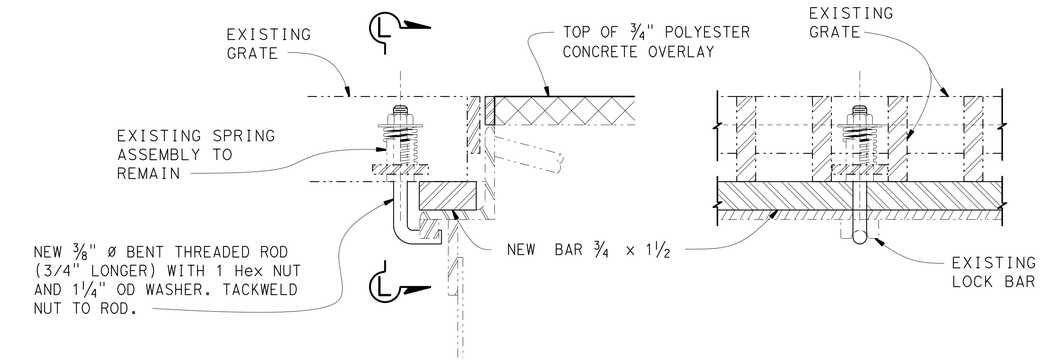
PLAN



PLAN

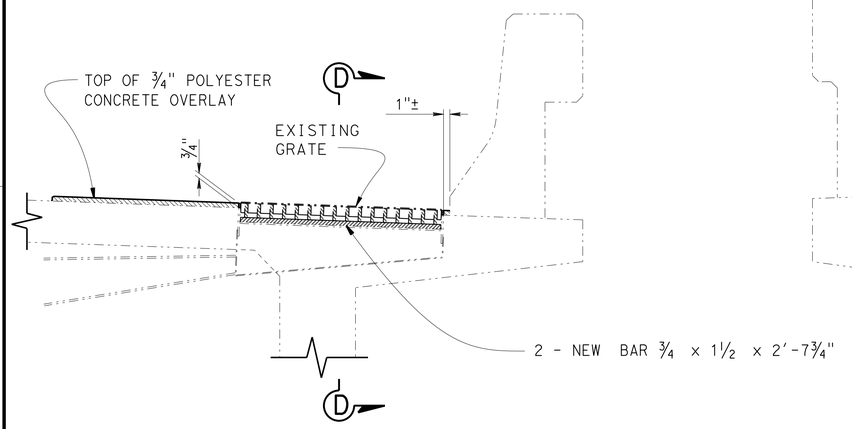


SECTION D-D



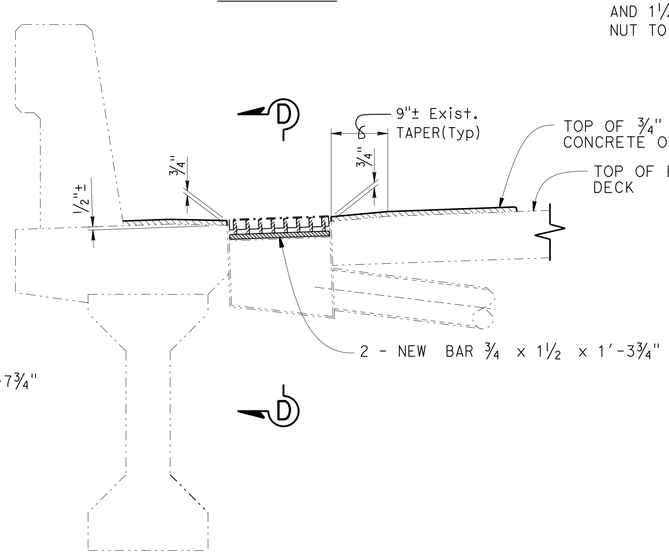
PART GRATE ELEVATION

SECTION L-L



PART TYPICAL SECTION

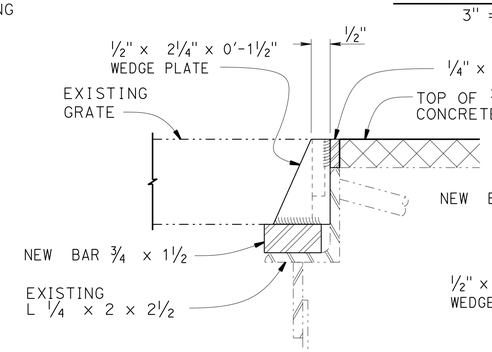
EXISTING TYPE D-2 (MOD.)
DRAIN OVERLAY TRANSITION (CONFORM)
1" = 1'-0"



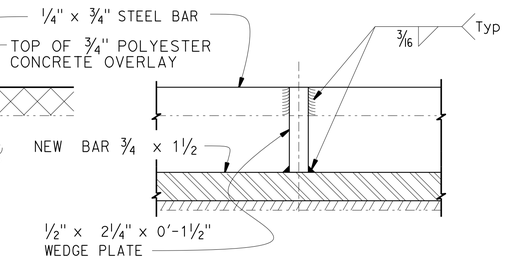
PART TYPICAL SECTION

EXISTING TYPE D-2
DRAIN OVERLAY TRANSITION (CONFORM)
1" = 1'-0"

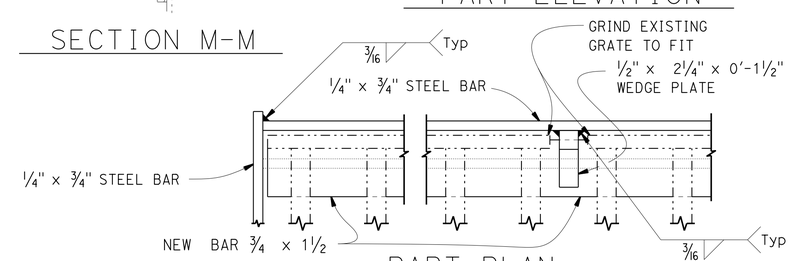
DETAIL "D"
3" = 1'-0"



SECTION M-M



PART ELEVATION



PART PLAN

FRAME EXTENSION ASSEMBLY
3" = 1'-0"

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

Note:
For location of Deck Drain, Deck Closure Drain and Scupper see "STRUCTURE PLAN" sheets.

	BY	CHECKED
DESIGN	Peter Soin	Qi Zhao
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
MISCELLANEOUS DETAILS NO. 2

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-5-13 2-19-13 10-31-12 12-10-12

SHEET 10 OF 13

FILE => 33-0061r-kg-mscdts02_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	57	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER QI ZHAO No. 62197 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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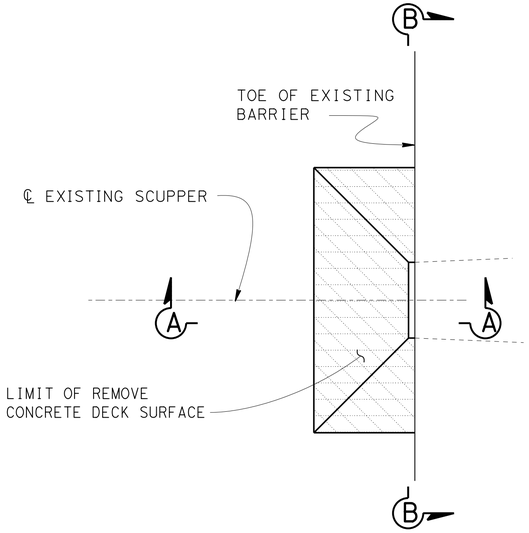
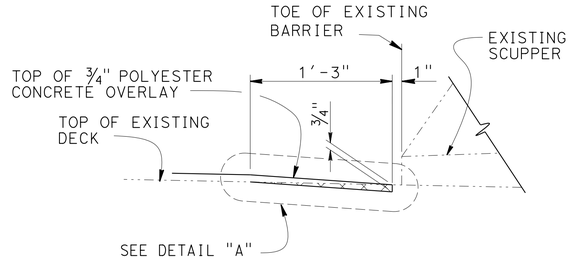
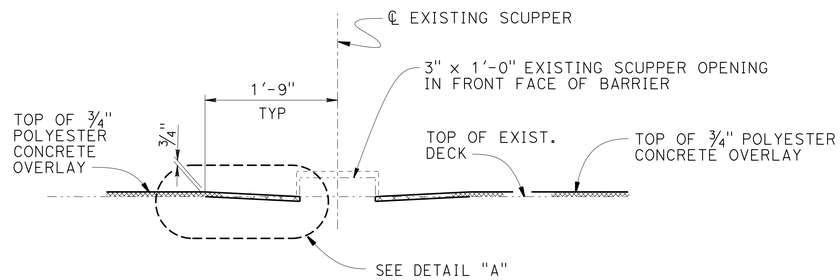


PLAN

Note:
For location of Deck Closure Drain and Scupper see "STRUCTURE PLAN" sheets.



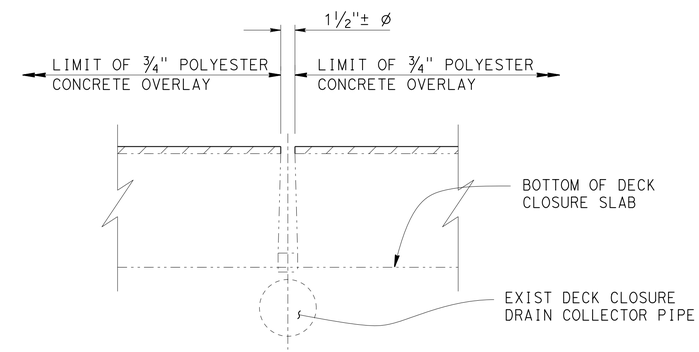
SECTION A-A



SECTION B-B

OVERLAY DETAIL AT DECK DRAIN OR SCUPPER

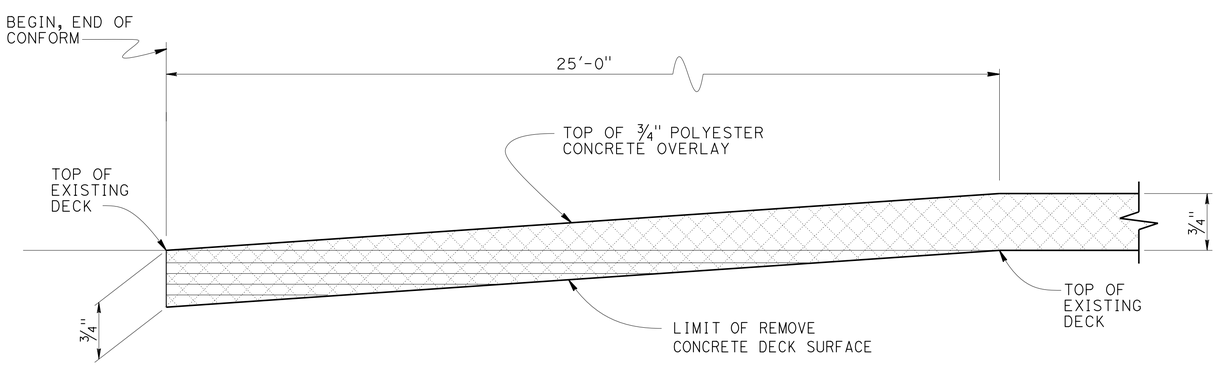
NO SCALE



ELEVATION

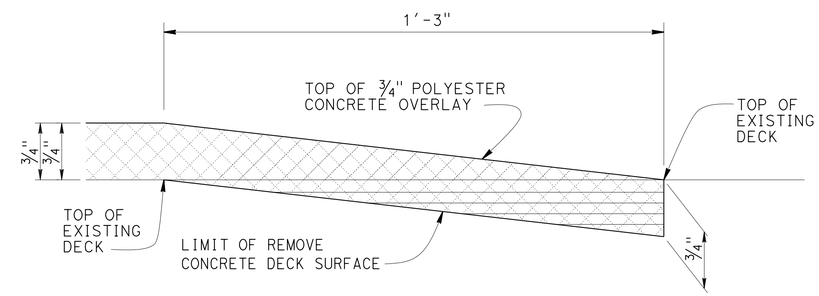
DECK CLOSURE DRAIN

1½" = 1'-0"



OVERLAY TRANSITION (CONFORM) @ BEGIN & END OF OVERLAY LIMITS

No Scale



DETAIL "A"

No Scale

LEGEND

Indicates limit of remove concrete deck surface

Indicates ¾" polyester concrete overlay

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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
MISCELLANEOUS DETAILS NO. 3

	BY	CHECKED
DESIGN	Li Barnard	Qi Zhao
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 1-4-13 3-28-12 10-31-12 12-14-12

SHEET 11 OF 13

FILE => 33-0061r-kg-mscdts03_p2.dgn

USERNAME => s124496 DATE PLOTTED => 21-JUN-2013 TIME PLOTTED => 17:36

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	58	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER QI ZHAO No. 62197 Exp. 9-30-13 CIVIL STATE OF CALIFORNIA

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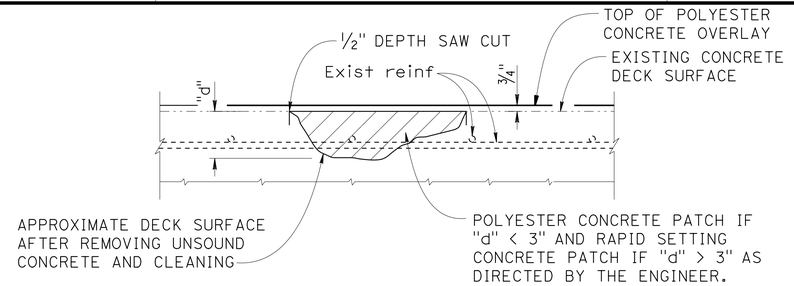
DECK REPAIR TABLE

STRUCTURE PLAN	TOTAL DECK AREA (SQFT)	APPROX AREA DAMAGED (percent)	APPROX DEPTH DAMAGED (inches)	REMOVE UNSOUND CONCRETE (CF)	RAPID SETTING CONCRETE PATCH (CF)
1	19573	5	3	245	245
2	15052	5	3	188	188
3	19927	5	3	250	250
4	26616	5	3	333	333
5 (EB)	30031	5	3	375	375
5 (WB)	21492	5	3	269	269
6 (EB)	73618	5	3	920	920
6 (WB)	37900	5	3	474	474

TEMPORARY DECKING DESIGN LOADING:

1. Moment demand per foot = 1000 lb-ft/ft
2. For Steel Plate System:
   a. anchor bolt shear per foot = 8000 lbs/ft
   b. acnhor bolt tension = 8000 lbs
   c. maximum anchorage bolt spacing = 1.5 ft



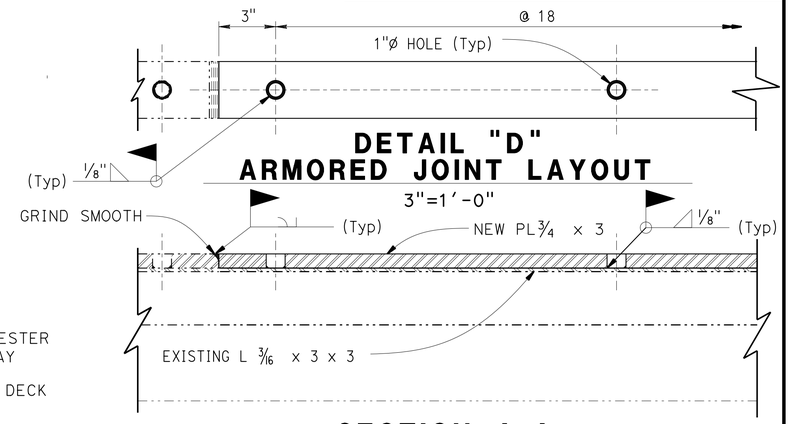
DECK REPAIR DETAIL

No Scale

Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal. Also see "DECK REPAIR TABLE".

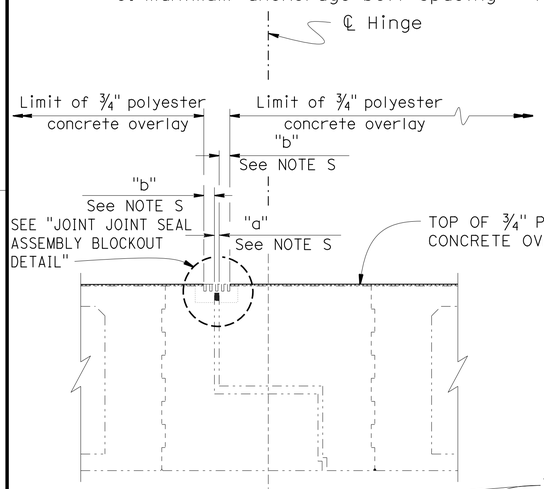
DECK REPAIR NOTES:

1. When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.
2. Remove unsound Portland cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.



DETAIL "D"
ARMORED JOINT LAYOUT

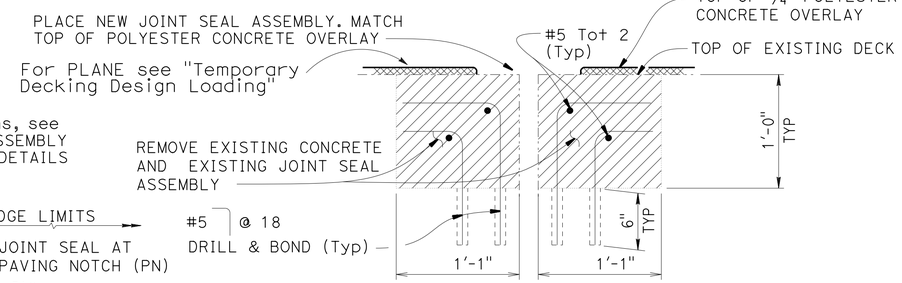
3"=1'-0"



HINGE

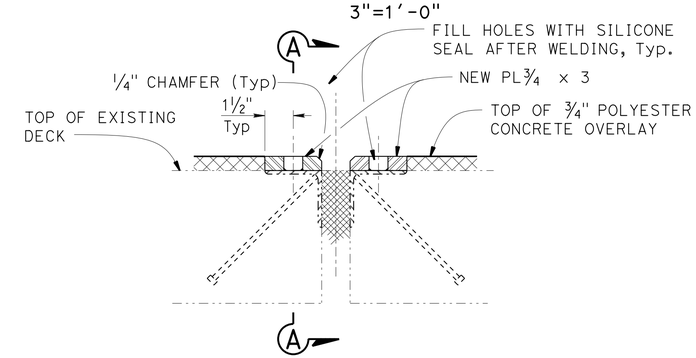
NOTE S

For details and dimensions, see "TRANSVERSE JOINT SEAL ASSEMBLY TABLE" on 'MISCELLANEOUS DETAILS NO. 5' sheet.



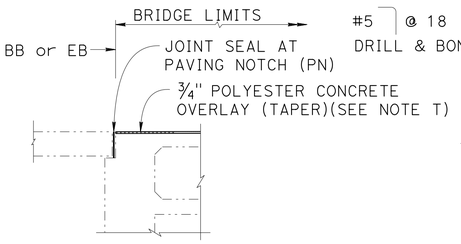
JOINT SEAL ASSEMBLY BLOCKOUT DETAIL

1 1/2"=1'-0"

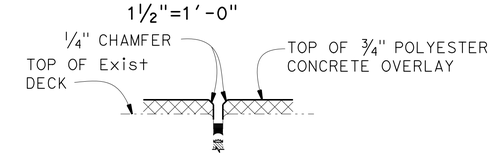


ARMORED JOINT DETAIL

3"=1'-0"

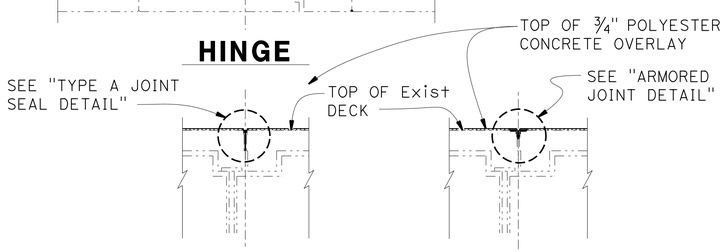


END DIAPHRAGM ABUTMENT



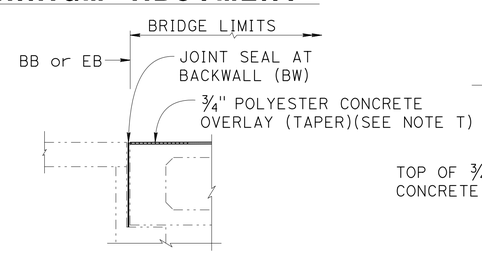
TYPE AL JOINT SEAL DETAIL

3"=1'-0"



TYPE A JOINT ARMORED JOINT

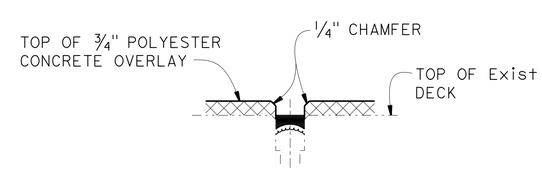
STEEL HINGE



SEAT TYPE ABUTMENT

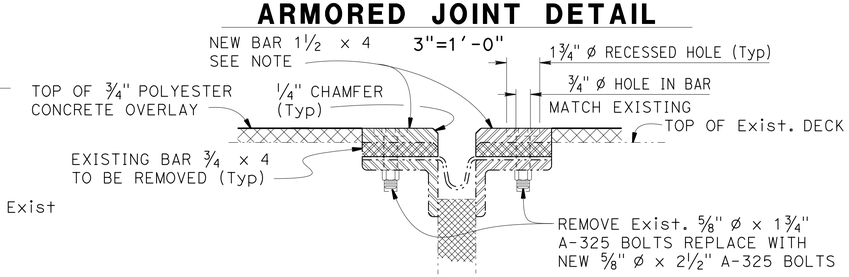
JOINT SEAL LOCATIONS

3/8"=1'-0"



TYPE A JOINT SEAL DETAIL

3"=1'-0"



HINGE E40W JOINT SEAL ASSEMBLY DETAIL

3"=1'-0"

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

DESIGN	BY Pete Soin	CHECKED Qi Zhao
DETAILS	BY Jeff Thorne	CHECKED Qi Zhao
QUANTITIES	BY Ben Nguyen	CHECKED Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
MISCELLANEOUS DETAILS NO. 4

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES: 2-7-13 5-18-12 9-4-12 10-31-12

SHEET 12 OF 13

FILE => 33-0061r-kg-mscdts04_p2.dgn

USERNAME => s119571 DATE PLOTTED => 05-JUL-2013 TIME PLOTTED => 07:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	580	46.0/46.6	59	59

REGISTERED CIVIL ENGINEER 2-28-13 DATE

6-17-13
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
QI ZHAO
No. 62197
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

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

JOINT SEAL TABLE

	LOCATION	"MR" * (inches)	APPROX LENGTH (feet)	EXISTING WATERSTOP OR NEOPRENE STRIP	ARMORED JOINT	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
EAST BOUND RTE 580	MB 26	1½	29.0	YES	NO	6
	MB 27	1½	28.0	YES	NO	6
	MB 28	1½	26.0	YES	NO	6
	MB 29	1½	26.0	YES	YES	6
	MB 30	1½	28.0	YES	NO	6
	MB 31 TO MB 39 & 41 total 10 joints	1½	27.0	YES	MB 31	6
	MB 40	1½	56.0	YES	NO	6
	BL 6	1½	60.0	YES	NO	6
	Hinge BL 8	1½	67.0	YES	NO	6
	Hinge BL 11	1½	77.0	YES	NO	6
	Hinge BL 14	1½	88.0	YES	NO	6
	Hinge BL 17	1½	83.0	YES	NO	6
	Hinge MBL 35##	6	18.0	YES	N/A	N/A
	Abut 44W	1½	100.0	YES	NO	6
	CB 11 to CB 22, total 12 joints	1 Each Location	29.0 Each Location	YES	CB22	6 at Each Location
WEST BOUND RTE 580	BM 36	1½	63.0	YES	NO	6
	BM 37	1½	56.0	YES	NO	6
	BL 6	1	56.0	YES	NO	6
	BL 9	1	53.0	YES	NO	6
	BL 10	1	52.0	YES	YES**	6
	BL 11	1	51.0	YES	NO	6
	BL 12	1	50.0	YES	YES**	6
	BL 13	1	50.0	YES	NO	6
	BL 14	1	49.0	YES	YES**	6
	BL 15	1	49.0	YES	NO	6
	BL 16	1	50.0	YES	YES**	6
	BL 17	1	54.0	YES	NO	6
	BL Abut 20	1	51.0	YES	NO	6
	Abut EBL 1	1½	42.0	YES	NO	6
	EBL 2	1½	42.0	YES	NO	6
	EBL 3	1½	42.0	YES	NO	6
	EBL 4	1½	38.0	YES	NO	6
	BC 2	1½	10.0	YES	NO	6
	BC 3	1½	19.0	YES	NO	
	BC 4	1½	26.0	YES	NO	6
	BC 5 to BC 14, total 10 joints	1½ at Each Location	28.0 at Each Location	YES	BC 12, BC 14	6 at Each Location
	BC 15	1½	30.0	YES	NO	6
	BC 16	1½	34.0	YES	NO	6
	BC 17	1½	38.0	YES	NO	6
	BC 18	1½	40.0	YES	NO	6
	BC 19	1½	42.0	YES	NO	6
	BC 20	1½	44.0	YES	NO	6
	BC 21	1½	48.0	YES	NO	6

* Movement Rating (MR) calculations only consider temperature movement.
** Armored length = 48.7'
See "JOINT SEAL ASSEMBLY TABLE"

The following notes apply to JOINT SEAL TYPE A:

1) Install Type A joint seal 3" up into curb or rail on the low side of the deck where joint matches curb or rail joint.

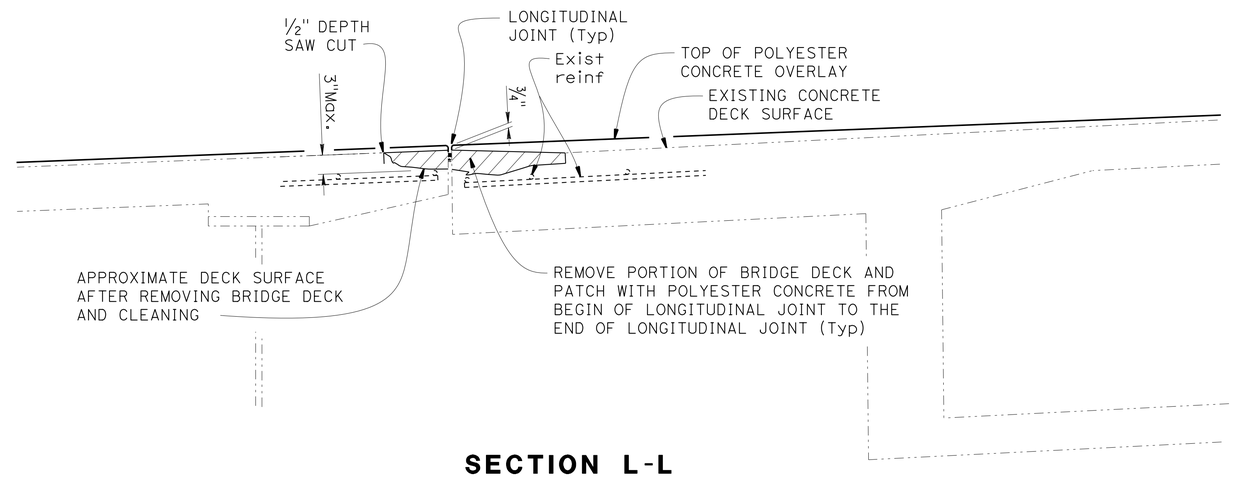
2) The replacement joint seal shall be the same type as the existing joint seal.

JOINT SEAL ASSEMBLY TABLE					
Bridge No.	Location	"b" Dimension	"a" Dimension		
			Winter	Summer	Spring & Fall
33-0061 L/R	Hinge MBL 35	6"	-	1¾"	-

LONGITUDINAL JOINT SEAL TABLE

	START STATION	END STATION	"MR" * (inches)	LENGTH (feet)	APPROX DEPTH TO CLEAN EXPANSION JOINT (inches)
EAST BOUND RTE 580	"MBL" 406+00.00	"E" 15+52.56	½	952.0	6
	"MBL" 407+81.87	"E" 12+33.43	½	451.0	6
WEST BOUND RTE 580	"BL" 7+90.18	"BL" 13+89.43	½	600.0	6

* Movement Rating (MR) calculations only consider temperature movement.



SECTION L-L
DECK REPAIR DETAIL AT LONGITUDINAL JOINT

No Scale

Locations to be determined by the Engineer.
Reinforcement may be encountered during deck concrete removal.

DECK REPAIR NOTES:

1. When existing transverse reinforcement is exposed in the deck surface, saw cutting shall be waived with the approval of the Engineer.

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

DECK REHABILITATION (P-2)
DISTRIBUTION STRUCTURE
MISCELLANEOUS DETAILS NO. 5

	BY	CHECKED
DESIGN	Qi Zhao	Peter Soin
DETAILS	Jeff Thorne	Qi Zhao
QUANTITIES	Ben Nguyen	Qi Zhao

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 4

BRIDGE NO. 33-0061L/R
POST MILE VARIES

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 04
PROJECT NUMBER & PHASE: 0412000346
CONTRACT NO.: 04-1a6711

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES 2-11-13 9-4-12 12-12-12 1-4-13

SHEET 13 OF 13

FILE => 33-0061r-kg-mscdts05_p2.dgn

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