Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	1	48

ACNHPI-880-1(071)E

2

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

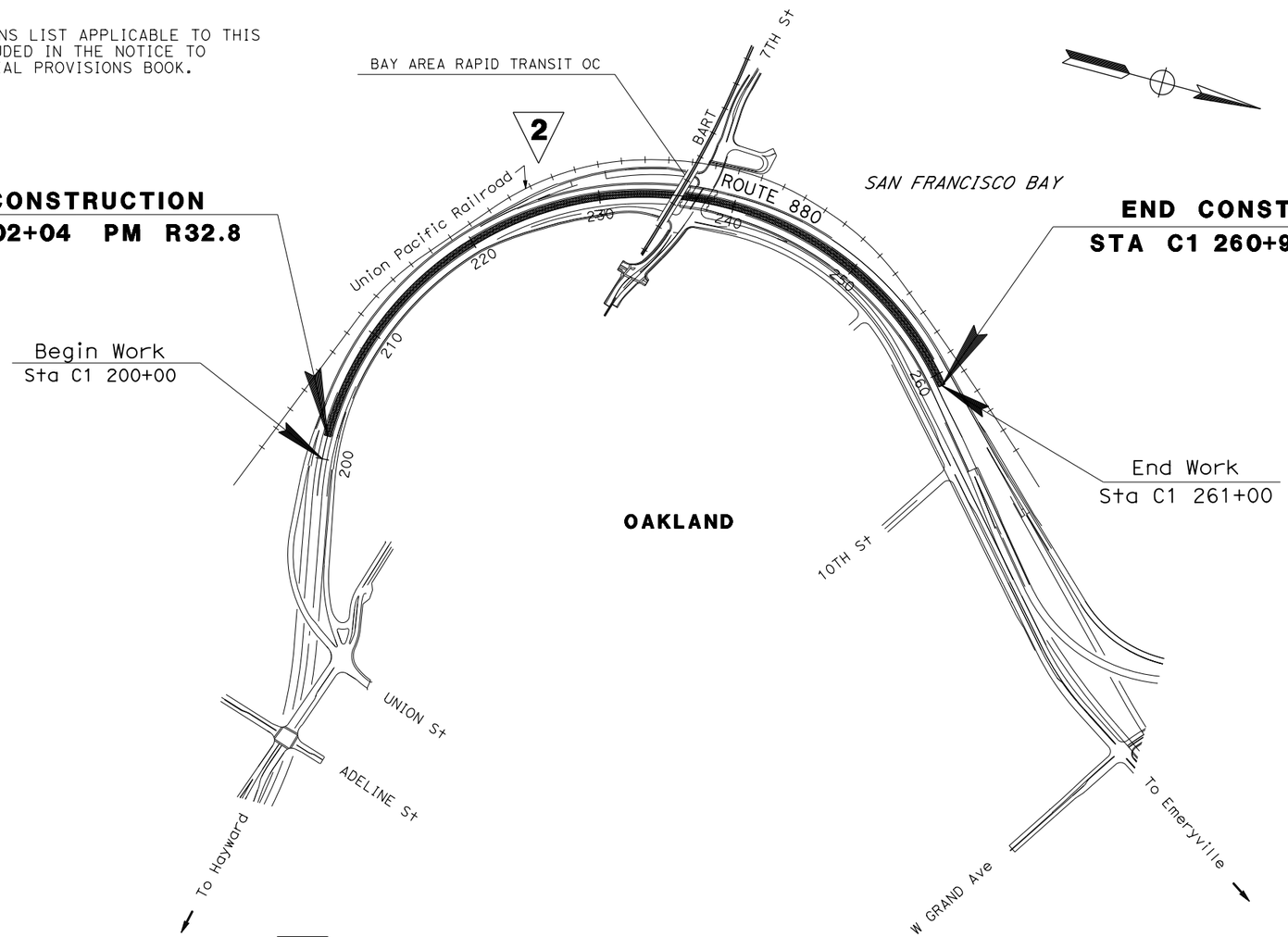
IN ALAMEDA COUNTY
IN OAKLAND
FROM 0.3 MILE SOUTH OF 7TH STREET
TO 0.4 MILE SOUTH OF WEST GRAND AVENUE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE SHEET AND LOCATION MAP
2	TYPICAL CROSS SECTIONS
3-8	LAYOUT
9-19	CONSTRUCTION DETAILS
20-21	DRAINAGE PROFILES
22	UTILITY PLAN
23	CONSTRUCTION AREA SIGNS
24-26	TRAFFIC HANDLING PLAN
27	SUMMARY OF QUANTITIES
28-35	PLANT LEGEND, PLANTING PLAN AND LANDSCAPE QUANTITIES
36-43A (2)	EROSION CONTROL LEGEND, PLANS AND QUANTITIES
44-48	REVISED STANDARD PLANS

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



BEGIN CONSTRUCTION
STA C1 202+04 PM R32.8

END CONSTRUCTION
STA C1 260+98 PM R34.0

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

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

NO SCALE

PROJECT MANAGER: JACK SIAUW
DESIGN MANAGER: JAIME GUTIERREZ

3/18/14
PROJECT ENGINEER REGISTERED CIVIL ENGINEER — DATE

March 24, 2014
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Humayun R. Syed — No. 39950 — Exp. 12-31-15 — 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.	04-4A8104
PROJECT ID	0400020932

LAST REVISION 07-31-14
DATE PLOTTED => 31-JUL-2014
TIME PLOTTED => 13:02

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	9	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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2

NOTE:

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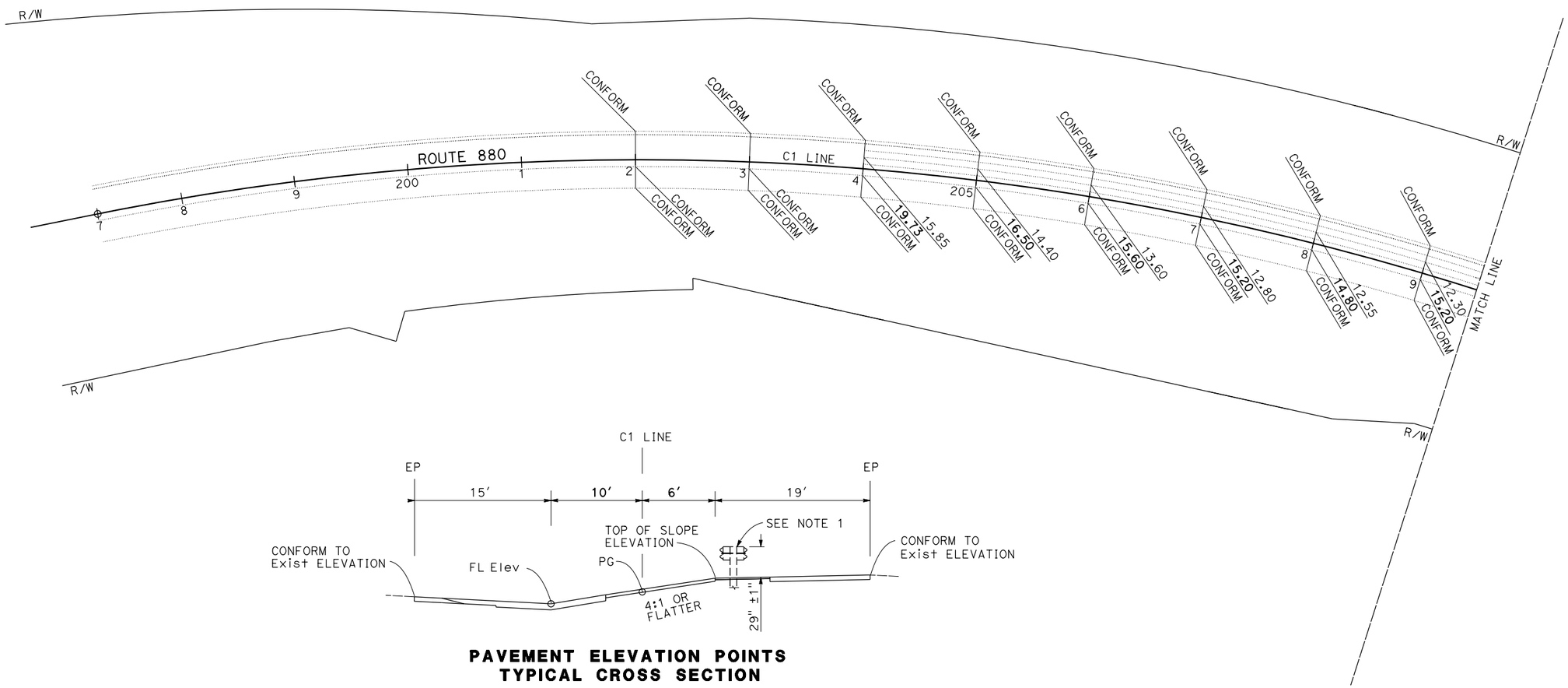

PAVEMENT ELEVATION POINTS
TYPICAL CROSS SECTION

NOTE:

1. THE FG MAY BE ADJUSTED TO MEET THE STANDARD HEIGHT OF THE Exist THRIE BEAM BARRIER AS DIRECTED BY THE ENGINEER.

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: SID PAWAR
CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 07-31-14
DATE PLOTTED => 31-JUL-2014
TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	10	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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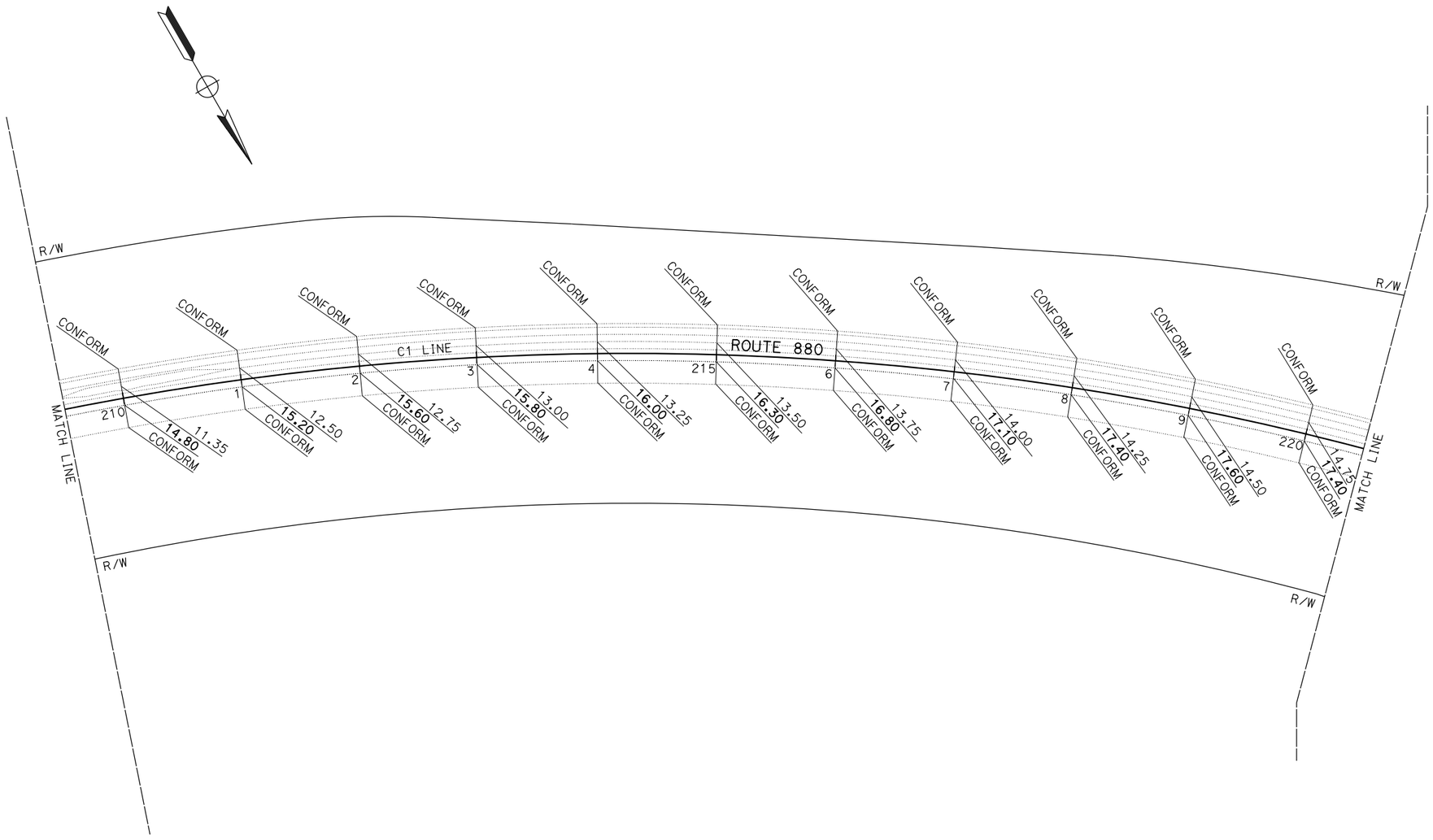

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-2

HUMAYUN R. SYED	REVISED BY HS
JAIME E. GUTIERREZ	DATE REVISED 3/23/14
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR SID PAWAR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	11	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
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REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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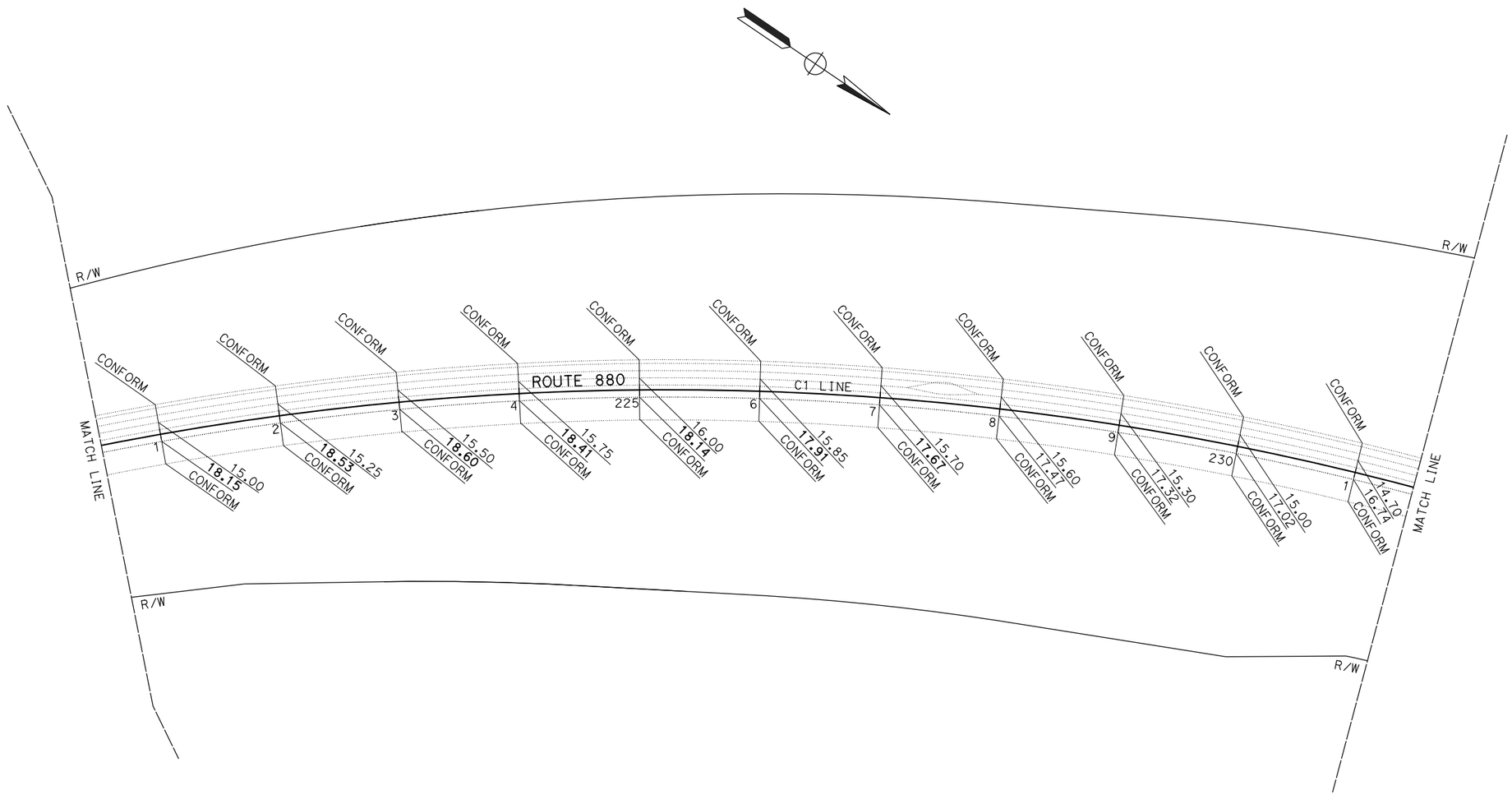

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

C-3

HUMAYUN R. SYED	REVISED BY HS
JAIME E. GUTIERREZ	DATE REVISED 3/23/14
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR SID PAWAR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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04	Ala	880	R32.8/R34.0	12	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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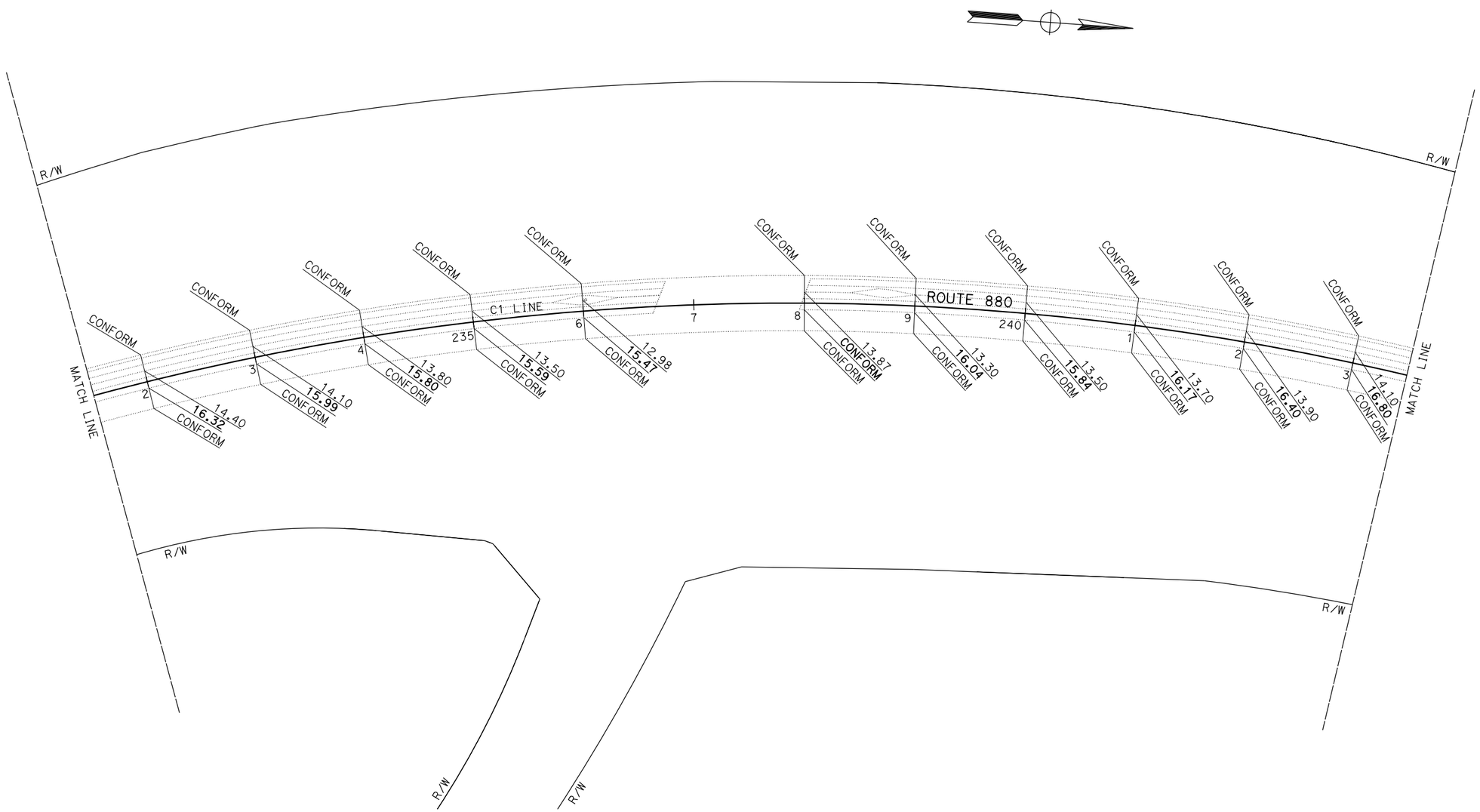

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN
SCALE: 1" = 50'

C-4

REVISED BY	HS
DATE REVISED	3/23/14
HUMAYUN R. SYED	
JAIME E. GUTIERREZ	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
SID PAWAR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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DESIGN

LAST REVISION 07-31-14
DATE PLOTTED => 31-JUL-2014
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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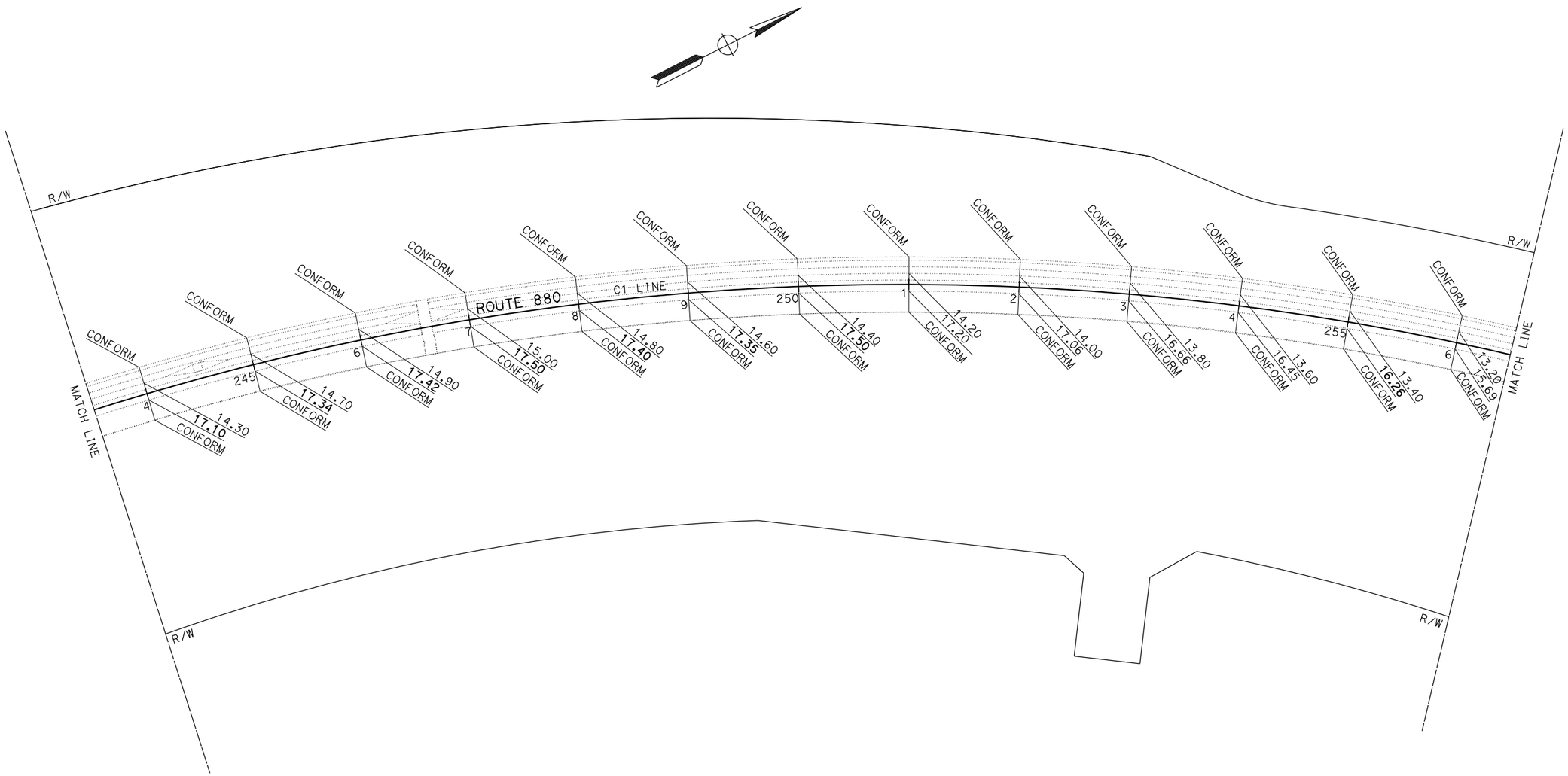

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-5

HUMAYUN R. SYED	REVISED BY HS
JAIME E. GUTIERREZ	DATE REVISED 3/23/14
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
SID PAWAR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 07-31-14 DATE PLOTTED => 31-JUL-2014 TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	14	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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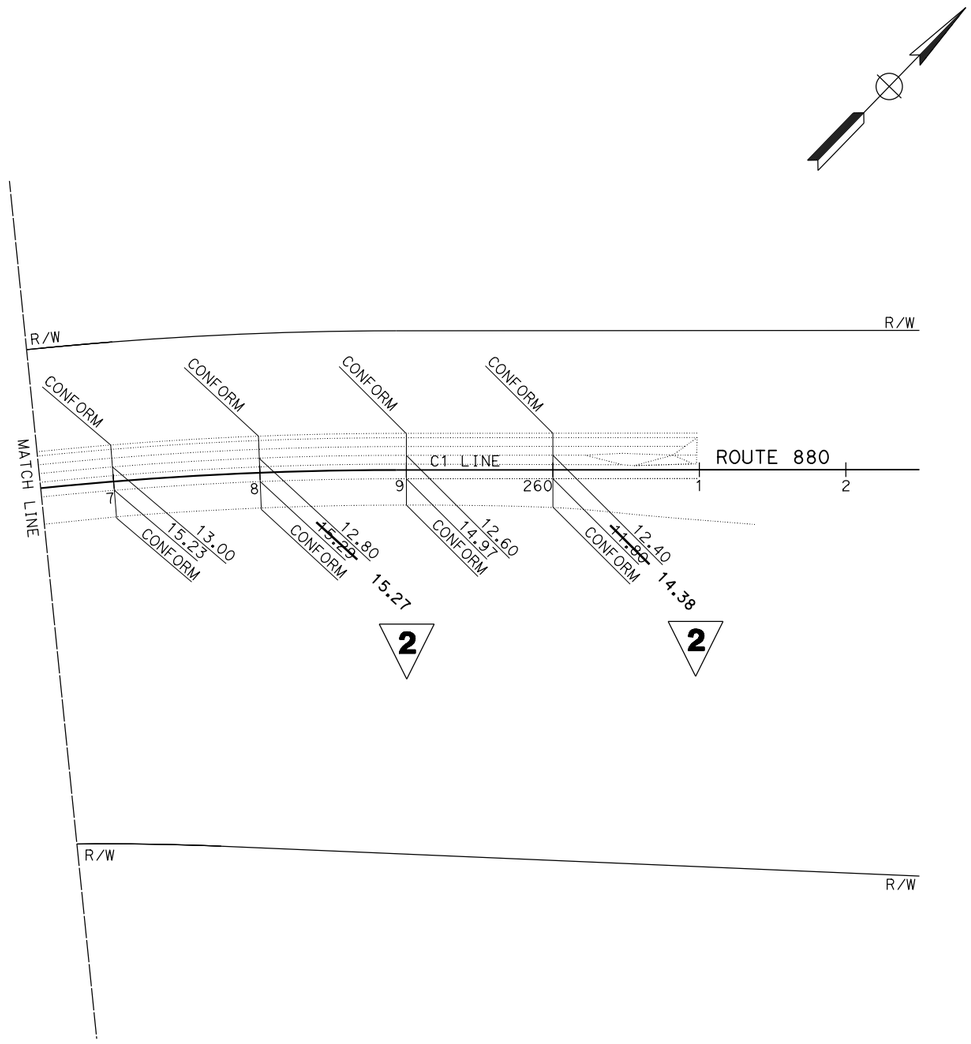

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-6

REVISED BY	HS
DATE REVISED	3/23/14
HUMAYUN R. SYED	
JAIME E. GUTIERREZ	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	
SID PAWAR	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 07-31-14
DATE PLOTTED => 31-JUL-2014
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	43A	48

REGISTERED CIVIL ENGINEER 03/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jiangfan Chen No. 77248 Exp. 6-30-14 CIVIL STATE OF CALIFORNIA

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2

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

ITEM	UNIT	STATION	QUANTITY
TEMPORARY HYDRAULIC MULCH (BONDED FIBER MATRIX)	SQYD	CL1 201+70.00 TO CL1 260+20.00	7,500
TEMPORARY DRAINAGE INET PROTECTION	EA	CL1 201+70.00 TO CL1 260+20.00	9
TEMPORARY FIBER ROLL	LF	CL1 201+70.00 TO CL1 260+20.00	7,500
TEMPORARY CONSTRUCTION ENTRANCE	EA	CL1 201+70.00 TO CL1 260+20.00	4

2 **ADDED PER ADDENDUM No. 2 DATED JULY 31, 2014**

TEMPORARY WATER POLLUTION CONTROL QUANTITIES

WPCQ-1

REVISED BY | DATE REVISED

JIANGFAN CHEN | KAMRAN NAKHJIRI

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR | KAMRAN NAKHJIRI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **WATER QUALITY**

LAST REVISION 07-31-14 | DATE PLOTTED => 31-JUL-2014 TIME PLOTTED => 13:03

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04	Ala	880	R32.8/R34.0	27	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Humayun R. Syed No. 39950 Exp. 12-31-15 CIVIL STATE OF CALIFORNIA

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VEGETATION CONTROL (MINOR CONCRETE)

SHEET No.	STATION LIMITS	VEGETATION CONTROL
		SQYD
L-1	C1 202+04 TO 209+50	578
L-2	C1 209+50 TO 220+50	852
L-3	C1 220+50 TO 231+50	852
L-4	C1 231+50 TO 236+16	361
	C1 238+50 TO 239+42	82
	C1 238+18 TO 243+50	411
L-5	C1 243+50 TO 246+54	236
	C1 246+66 TO 256+50	864
L-6	C1 256+50 TO 260+96	348
TOTAL		4584

PLACE HMA DIKE (TYPE E)
PLACE HMA MISCELLANEOUS AREA

SHEET No.	STATION LIMITS	DIKE (TYPE E)	MISCELLANEOUS AREA
		LF	SQYD
L-3	25' Rt C1 228+00 TO 25' Rt C1 231+50	350	60
L-4	25' Rt C1 231+50 TO 25' Rt C1 236+09	459	80
	25' Rt C1 238+18 TO 25' Rt C1 239+50	132	25
L-5	Exist EMERGENCY PASSAGEWAY		67
TOTAL		941	232

EARTHWORK QUANTITIES

SHEET No.	STATION LIMITS	ROADWAY EXCAVATION	EMBANKMENT [N]
		CY	
L-1	C1 202+00 TO 209+50	580	300
L-2	C1 209+50 TO 220+50	1120	610
L-3	C1 220+50 TO 231+50	1235	510
L-4	C1 231+50 TO 243+50	1250	545
L-5	C1 243+50 TO 256+50	1530	615
L-6	C1 256+50 TO 260+98	485	200
TOTAL		6200	2780

[N] NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

ROADWAY QUANTITIES

SHEET No.	STATION LIMITS	HMA MISCELLANEOUS (AREAS AND DIKES)	LIQUID ASPHALT (PRIME COAT)	TACK COAT	COLD PLANE ASPHALT CONCRETE PAVEMENT	CLASS 2 AGGREGATE BASE	
		TON			SQYD	CY	
						Lt	Rt
L-1	C1 202+04 TO 209+50					47	164
L-2	C1 209+50 TO 220+50					82	244
L-3	C1 220+50 TO 231+50					82	242
L-4	C1 231+50 TO 243+50					73	230
L-5	C1 243+50 TO 256+50					97	286
L-6	C1 256+50 TO 260+98					18	70
	FROM AROUND PULL BOX (SHEET C-8)					18	
	FROM PLACE HMA DIKE (TYPE E)	25					
	FROM PLACE HMA MISCELLANEOUS	26	0.35	0.1			
	FROM Exist EMERGENCY PASSAGEWAY	12		0.2	67		
SUBTOTAL						417	1236
TOTAL		63	0.35	0.3	67	1653	

OBJECT MARKER ~~(TYPE)~~ (TYPE P) 2

SHEET No.	STATION	EA
TH-1	Rt C1 200+40	1
	Rt C1 202+70	1
TH-2	Rt C1 236+15	1
	Lt C1 236+60	1
	Rt C1 238+20	1
	Lt C1 238+80	1
TOTAL		6

ADJUST PULL BOXES

SHEET No.	LOCATION/STATION LIMITS	ADJUST PULL BOX
		EA
L-1	C1 202+00 TO 209+50	3
L-2	C1 209+50 TO 220+50	4
L-3	C1 220+50 TO 231+50	7
L-4	C1 231+50 TO 243+50	5
L-5	C1 243+50 TO 256+50	11
L-6	C1 256+50 TO 260+98	2
TOTAL		32

TEMPORARY RAILING (TYPE K)
TEMPORARY TRAFFIC SCREEN

SHEET No.	STATION LIMITS	LF
TH-1	Lt C1 205+00 TO 216+50	1170
	Rt C1 201+00 TO 216+50	1540
TH-2	Lt C1 216+50 TO 238+20	2200
	Rt C1 216+50 TO 235+50	1890
	Lt C1 239+00 TO 243+50	450
	Rt C1 236+60 TO 243+50	680
TH-3	Lt C1 243+50 TO 260+87	1760
	Rt C1 243+50 TO 258+90	1520
TOTAL		11210

CHANNELIZER (SURFACE MOUNTED)

SHEET No.	STATION LIMITS	EA
TH-1	Rt C1 198+24 TO 201+74	8
TH-2	Rt C1 236+00 TO 238+00	5
	Lt C1 237+00 TO 239+00	5
TOTAL		18

TEMPORARY CRASH CUSHION MODULE

SHEET No.	LOCATION	CRUSH CUSHION TYPE	EA
TH-1	Rt C1 200+68	ARRAY TS14	14 ~~1~~
TH-2	Rt C1 236+47	ARRAY TS14	14 ~~1~~
	Lt C1 238+42	ARRAY TS14	14 ~~1~~
TOTAL			42 ~~3~~

2

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: SID PAWAR
CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 07-31-14
DATE PLOTTED => 31-JUL-2014
TIME PLOTTED => 13:03

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	35	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4735
signature
11-30-14
Renewal date
3/17/14
Date
STATE OF CALIFORNIA

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2

PLANT QUANTITIES ORGANIC

SHEET	SOD (SQYD)	~~COMMERCIAL~~ FERTILIZER (LB)
PP-1	740	40
PP-2	1500	81
PP-3	1500	81
PP-4	1100	60
PP-5	1750	95
PP-6	550	30
TOTAL	7,140	387

2 **REPLACED PER ADDENDUM No. 2 DATED JULY 31, 2014**

LANDSCAPE QUANTITIES

LQ-1

REVISED BY	CP
DATE REVISED	07-24-14

CHRIS PADICK
ALEX MACDONALD

CALCULATED-DESIGNED BY
CHECKED BY

SENIOR LANDSCAPE ARCHITECT
DAVID YAM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® WATER QUALITY

LAST REVISION 07-31-14
DATE PLOTTED => 31-JUL-2014
TIME PLOTTED => 13:03