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

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

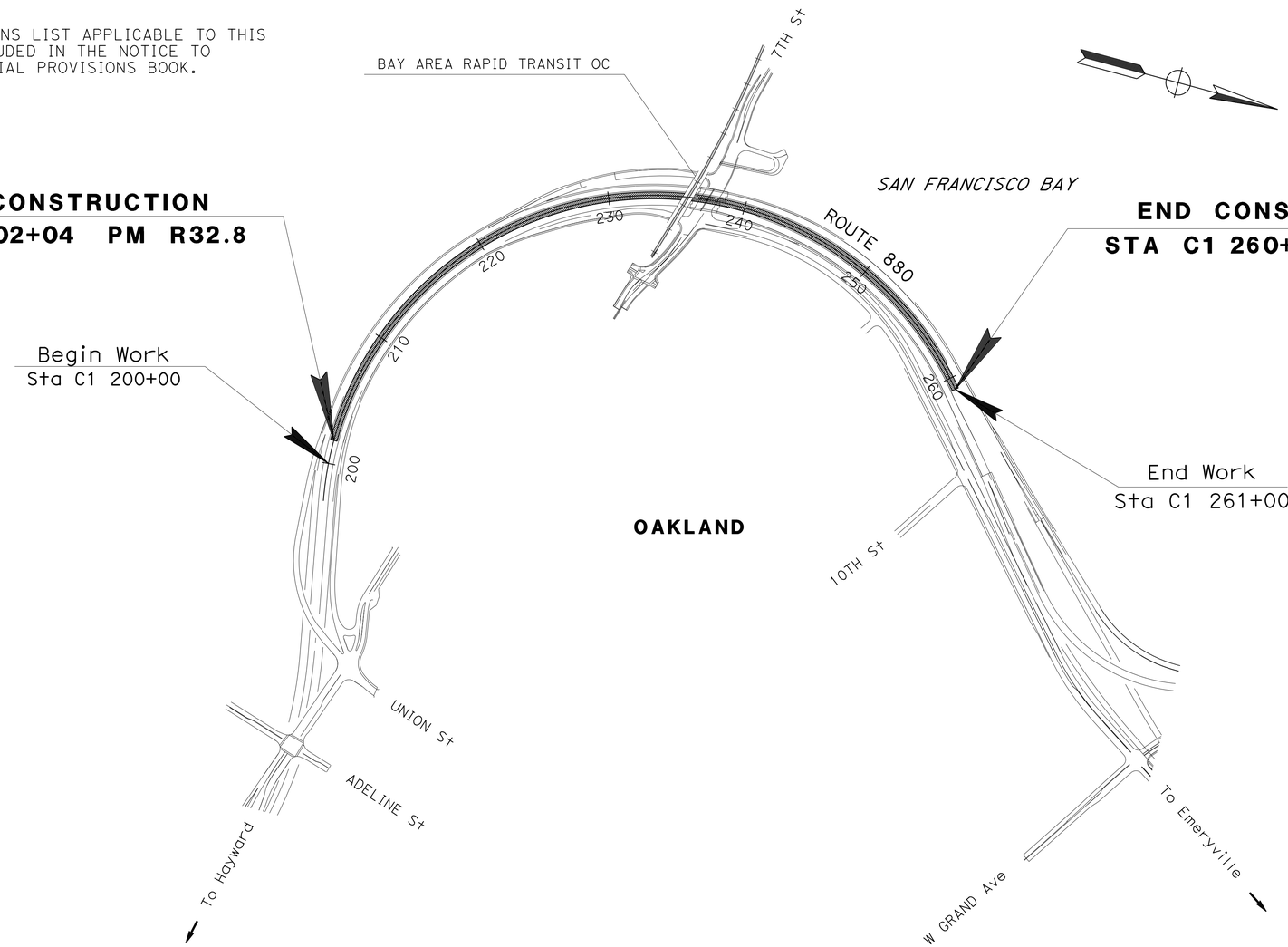
TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

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
36-43	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.

LOCATION MAP



BEGIN CONSTRUCTION
STA C1 202+04 PM R32.8

END CONSTRUCTION
STA C1 260+98 PM R34.0

PROJECT MANAGER: JACK SIAUW

DESIGN MANAGER: JAIME GUTIERREZ

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

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

March 24, 2014
PLANS APPROVAL DATE

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.

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

NO SCALE

CONTRACT No.	04-4A8104
PROJECT ID	0400020932

LAST REVISION 03-23-14 — DATE PLOTTED => 31-MAR-2014 — TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	2	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

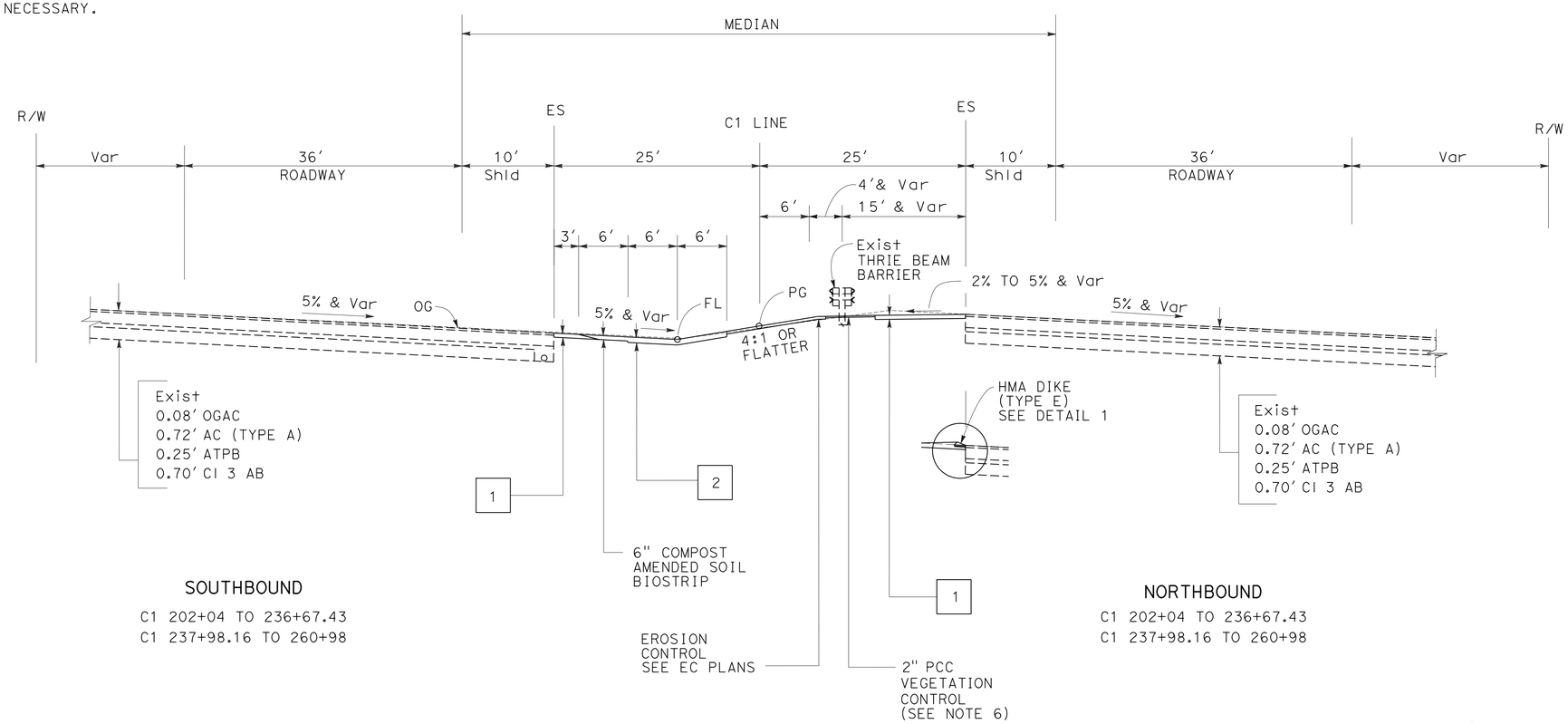
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. FOR LIMITS OF THE VEGETATION CONTROL, SEE REVISED STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.
3. FOR LIMITS OF DIKES, SEE LAYOUT PLANS.
4. CLASS 2 AGGREGATE BASE SHALL COMPLY WITH ¾" MAXIMUM AGGREGATE GRADING.
5. APPLY LIQUID ASPHALT (PRIME COAT) TO AGGREGATE BASE PRIOR TO PLACING HMA MISCELLANEOUS AREA.
6. HAND EXCAVATE UNDER EXISTING THRIE BEAM BARRIER FOR VEGETATION CONTROL AS NECESSARY.

ABBREVIATION:

& AND



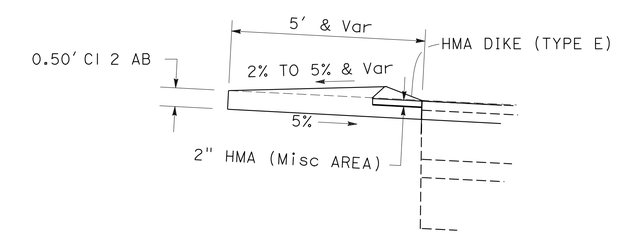
SOUTHBOUND

C1 202+04 TO 236+67.43
C1 237+98.16 TO 260+98

NORTHBOUND

C1 202+04 TO 236+67.43
C1 237+98.16 TO 260+98

ROUTE 880



DETAIL 1

C1 228+00 TO 236+09
C1 238+18 TO 239+50

TYPICAL STRUCTURAL SECTIONS

1 — 0.50′ CI 2 AB

2 — 8" COMPOST AMENDED SOIL BIO SWALE

TYPICAL CROSS SECTIONS

NO SCALE

X-1

REVISED BY	DATE REVISED
HS	3/23/14

CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
FUNCTIONAL SUPERVISOR: SID PAWAR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	3	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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NOTE:

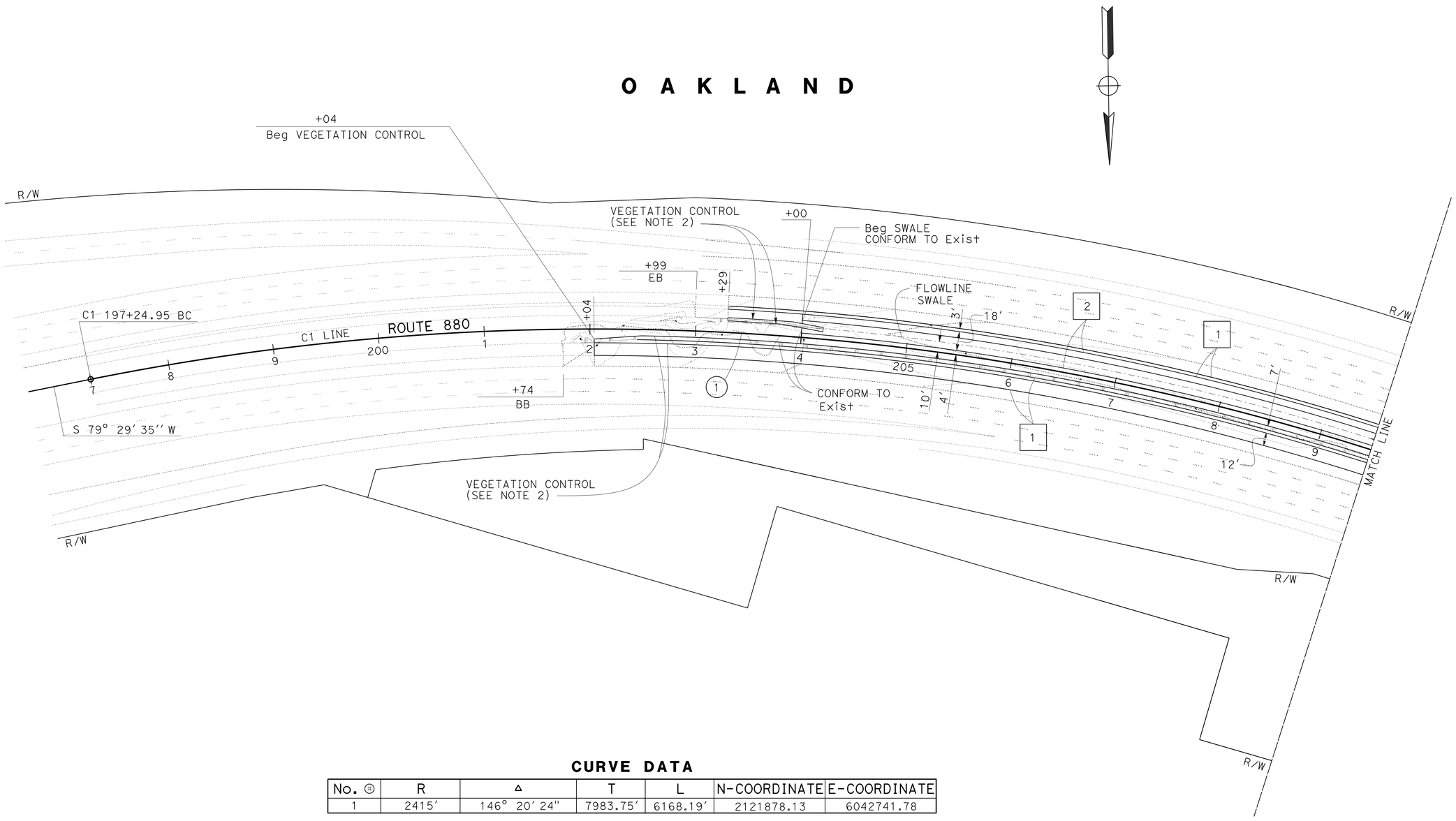
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

"COORDINATE VALUES SHOWN ARE CCS NAD, 83 ZONE 3 ".

NOTES:

1. CURVE DATA, N-COORDINATE & E-COORDINATE ARE THE CENTER OF THE CURVE.
2. FOR LIMITS OF THE VEGETATION CONTROL, SEE REVISED STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.
3. FOR ADJUSTMENT OF THE PULL BOXES WITHIN THE COMPOST AMENDED SOIL, SEE CONSTRUCTION DETAILS.

O A K L A N D



CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2415′	146° 20′ 24"	7983.75′	6168.19′	2121878.13	6042741.78

LAYOUT

SCALE: 1" = 50′

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	4	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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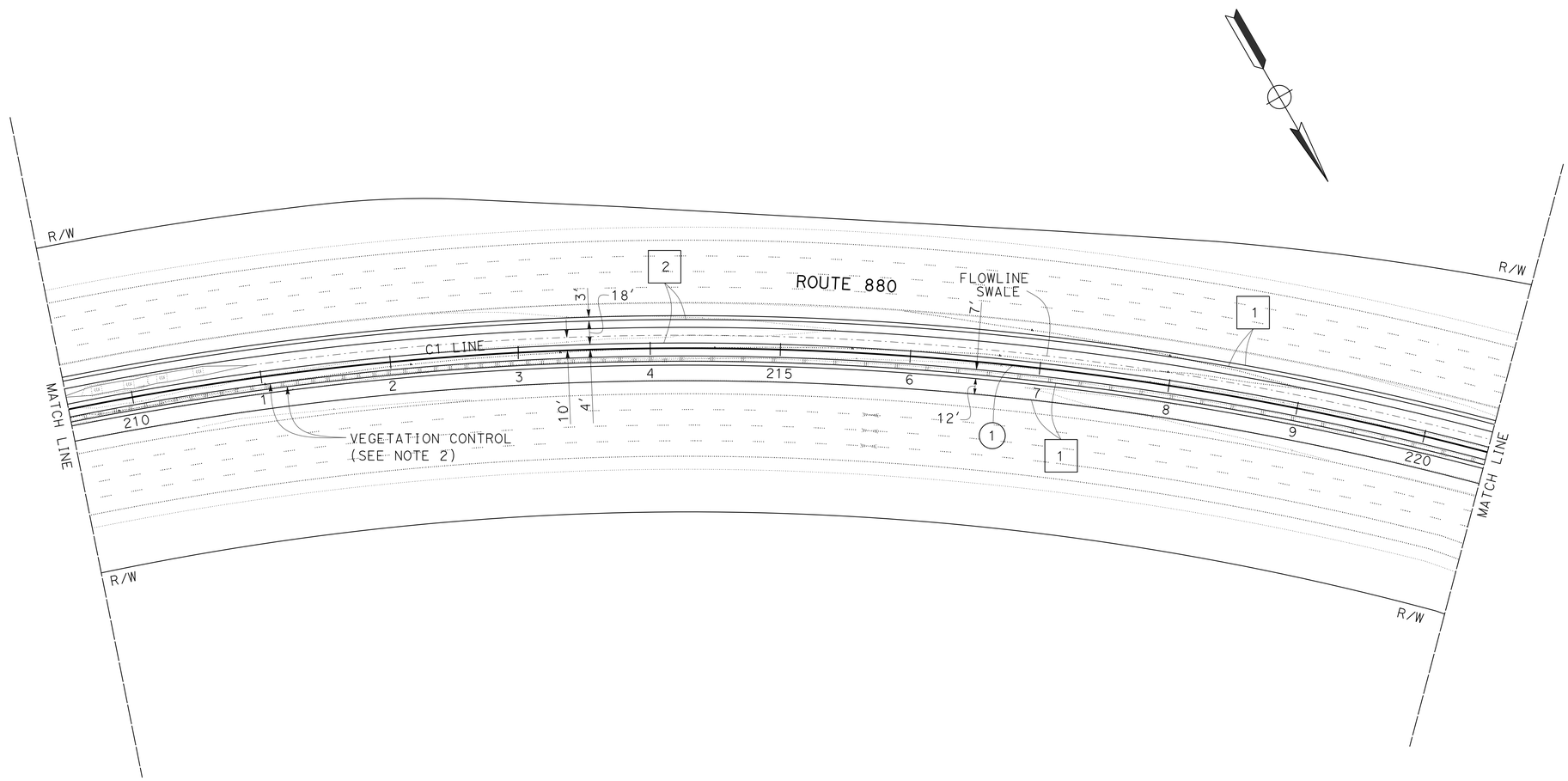

CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2415'	146° 20' 24"	7983.75'	6168.19'	2121878.13	6042741.78

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

LAYOUT

SCALE: 1" = 50'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CHECKED BY: JAIME E. GUTIERREZ

REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	5	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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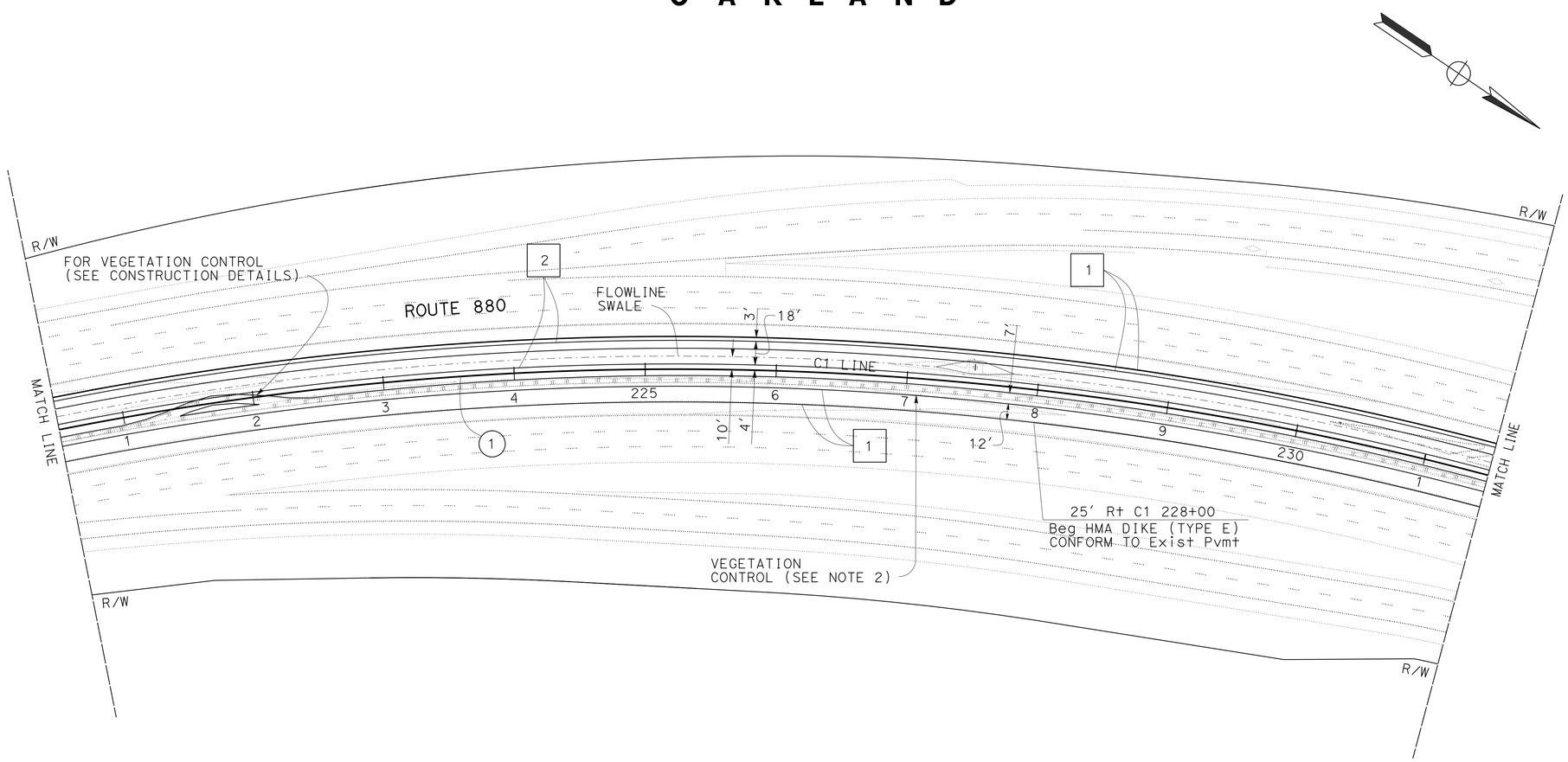
O A K L A N D



CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2415'	146° 20' 24"	7983.75'	6168.19'	2121878.13	6042741.78

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

LAYOUT

SCALE: 1" = 50'

L-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	6	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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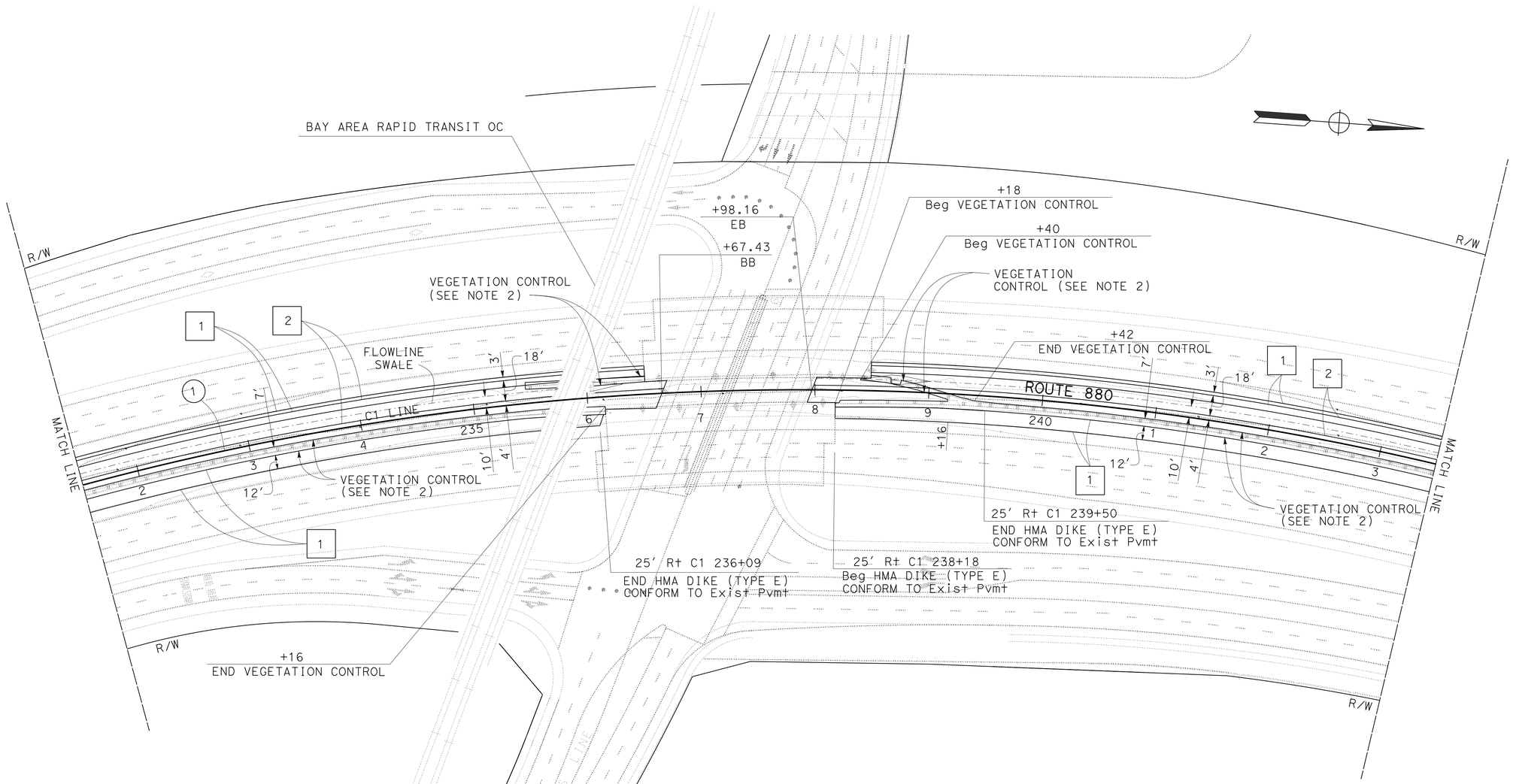

CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2415'	146° 20' 24"	7983.75'	6168.19'	2121878.13	6042741.78

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

LAYOUT

SCALE: 1" = 50'

L-4

REVISED BY	DATE REVISED
HS	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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LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	7	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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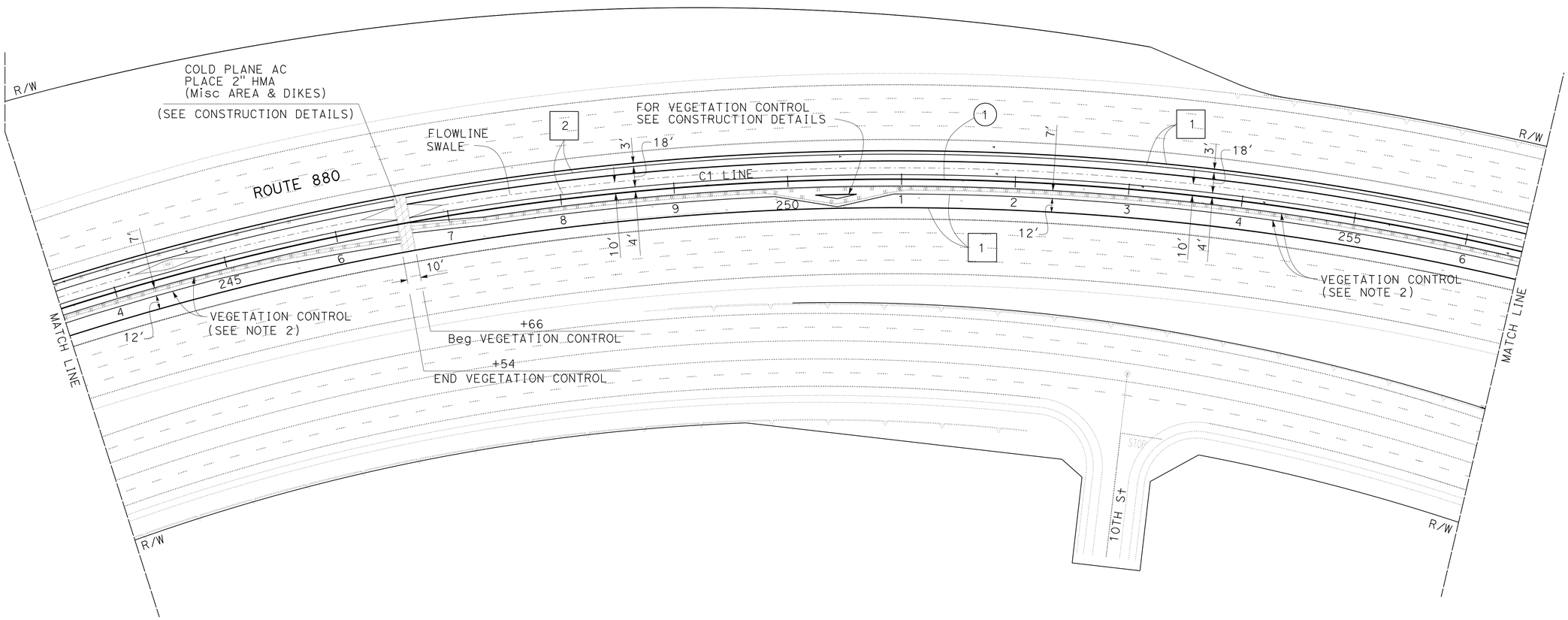
O A K L A N D



CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2415'	146° 20' 24"	7983.75'	6168.19'	2121878.13	6042741.78

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

LAYOUT

SCALE: 1" = 50'

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	8	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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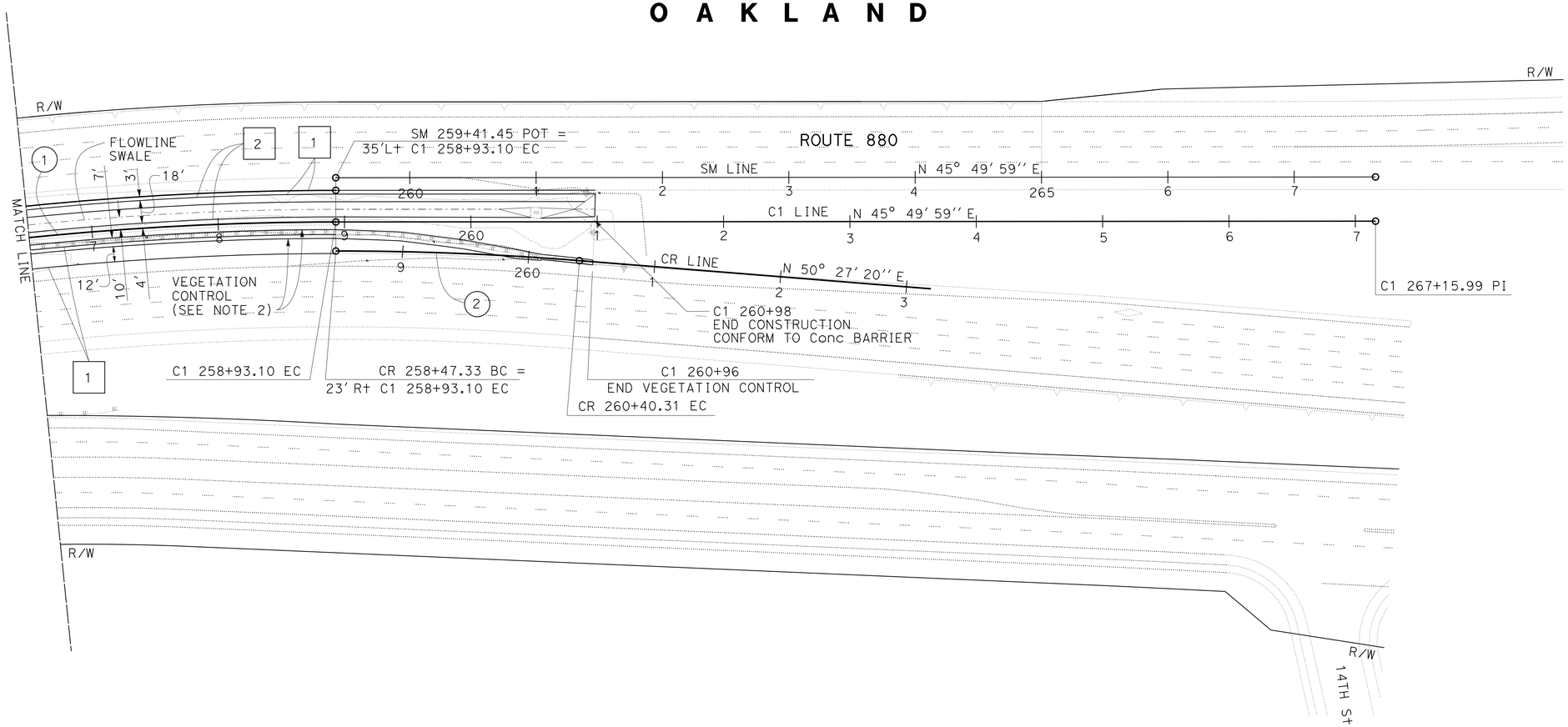
O A K L A N D



CURVE DATA

No. ⊕	R	Δ	T	L	N-COORDINATE	E-COORDINATE
1	2415'	146° 20' 24"	7983.75'	6168.19'	2121878.13	6042741.78
2	2392'	04° 37' 21"	96.54'	192.98'	2121878.13	6042741.78

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

LAYOUT

SCALE: 1" = 50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

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

REGISTERED CIVIL ENGINEER DATE 3/18/14

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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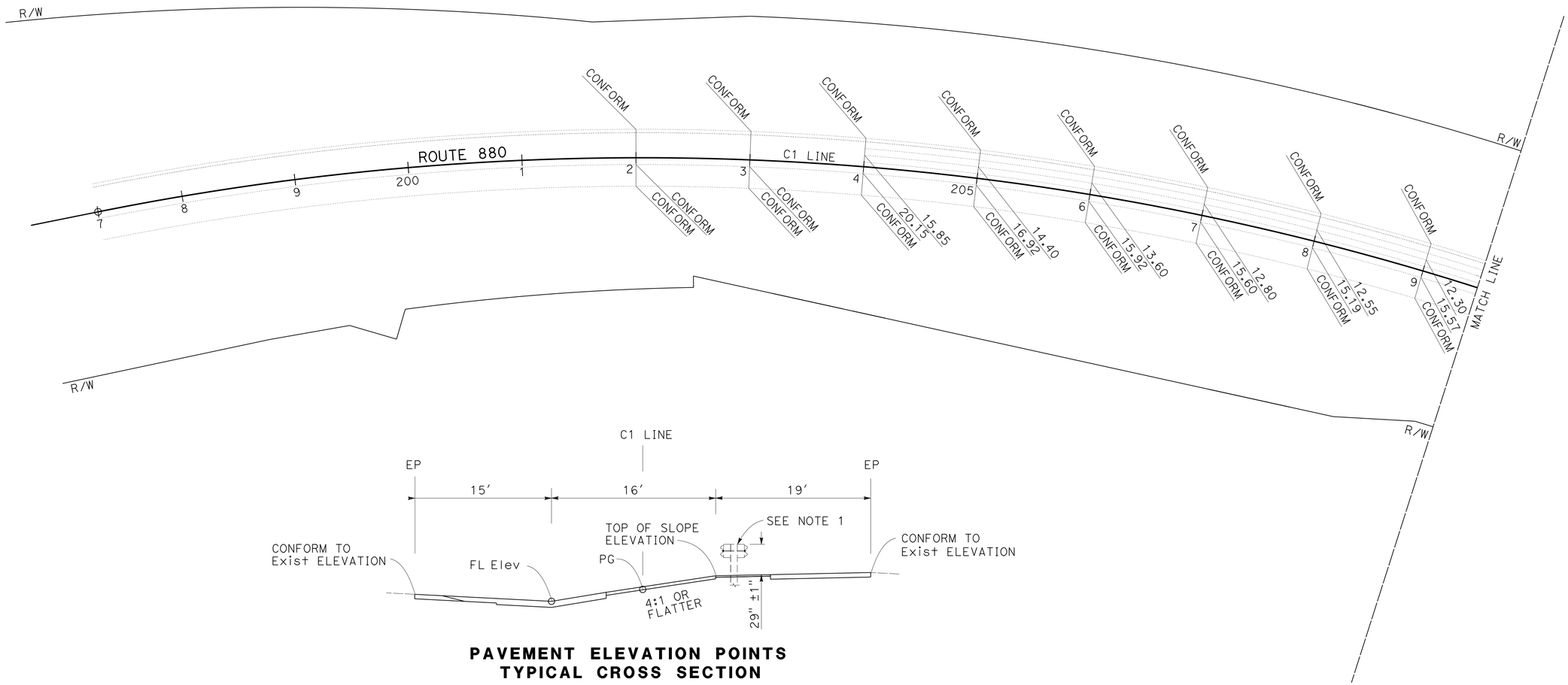

PAVEMENT ELEVATION POINTS
TYPICAL CROSS SECTION

NOTE:

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

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

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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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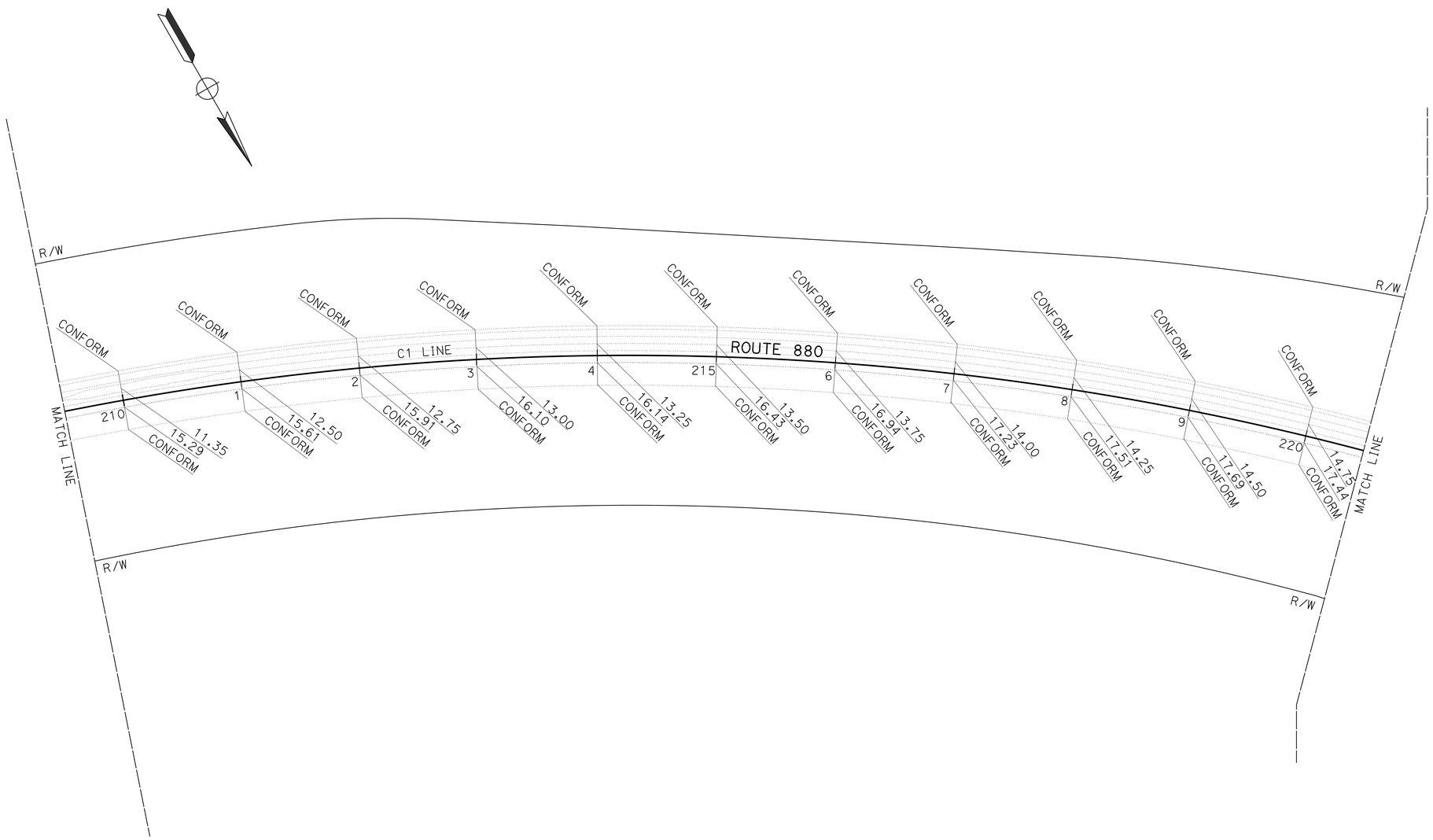

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

BORDER LAST REVISED 2/1/2013 | USERNAME => s126849 | DGN FILE => 0400020932ga002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0730 | PROJECT NUMBER & PHASE 04000209321

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

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

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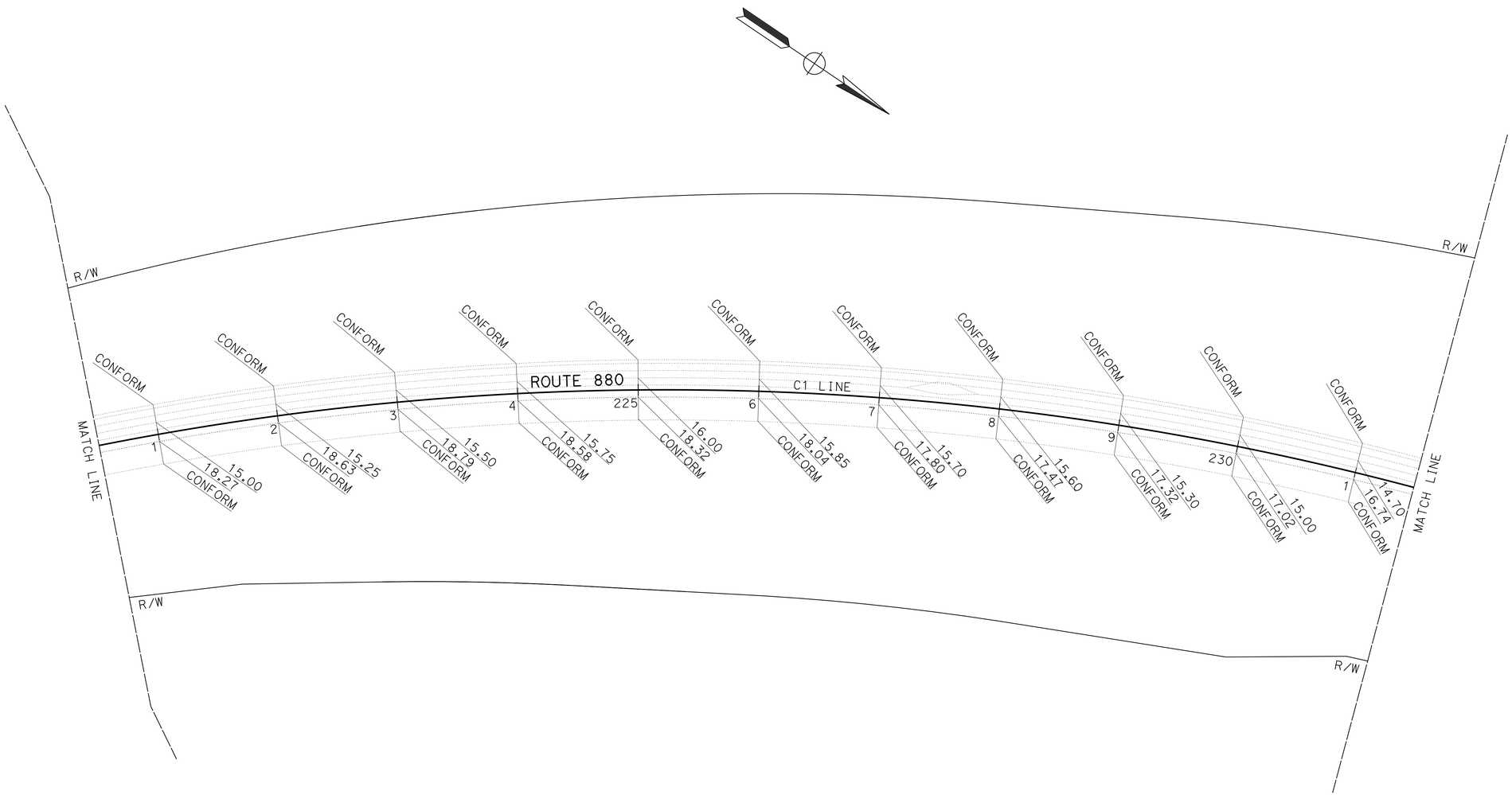

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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
Caltrans
DESIGN

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

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04	Ala	880	R32.8/R34.0	12	48

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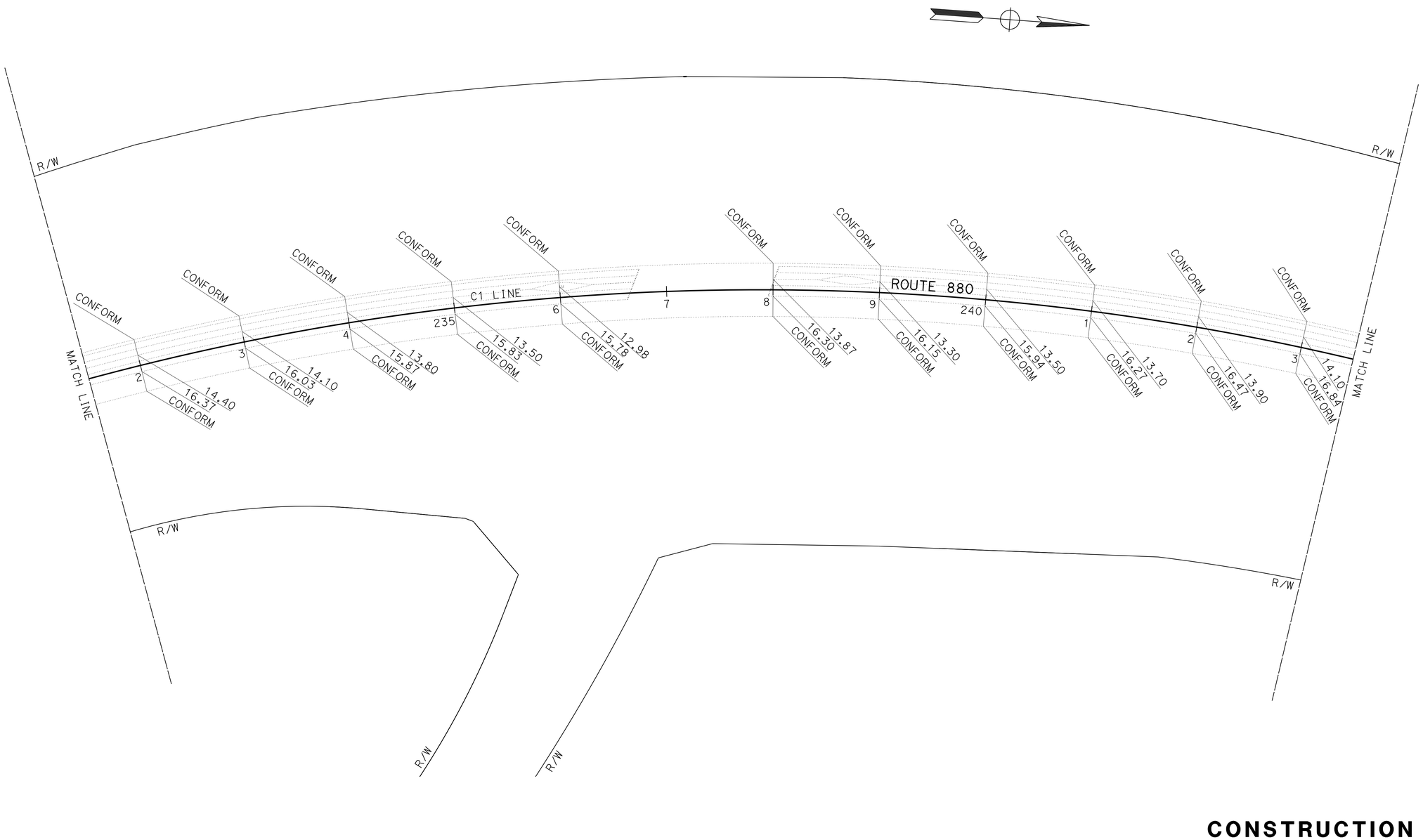

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-4

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: DATE PLOTTED => 31-MAR-2014 TIME PLOTTED => 10:41
03-23-14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	13	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

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

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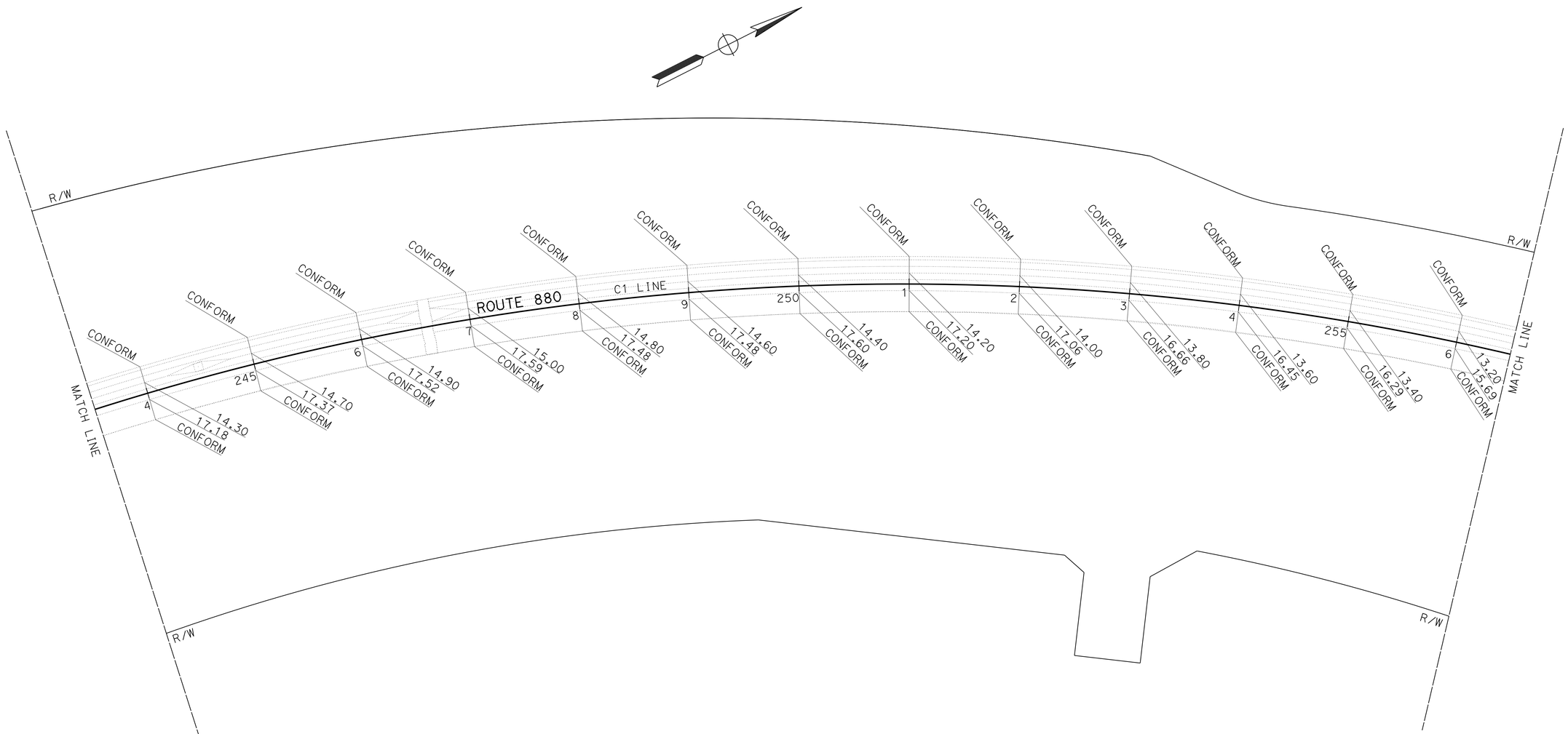


CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

C-5

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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

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

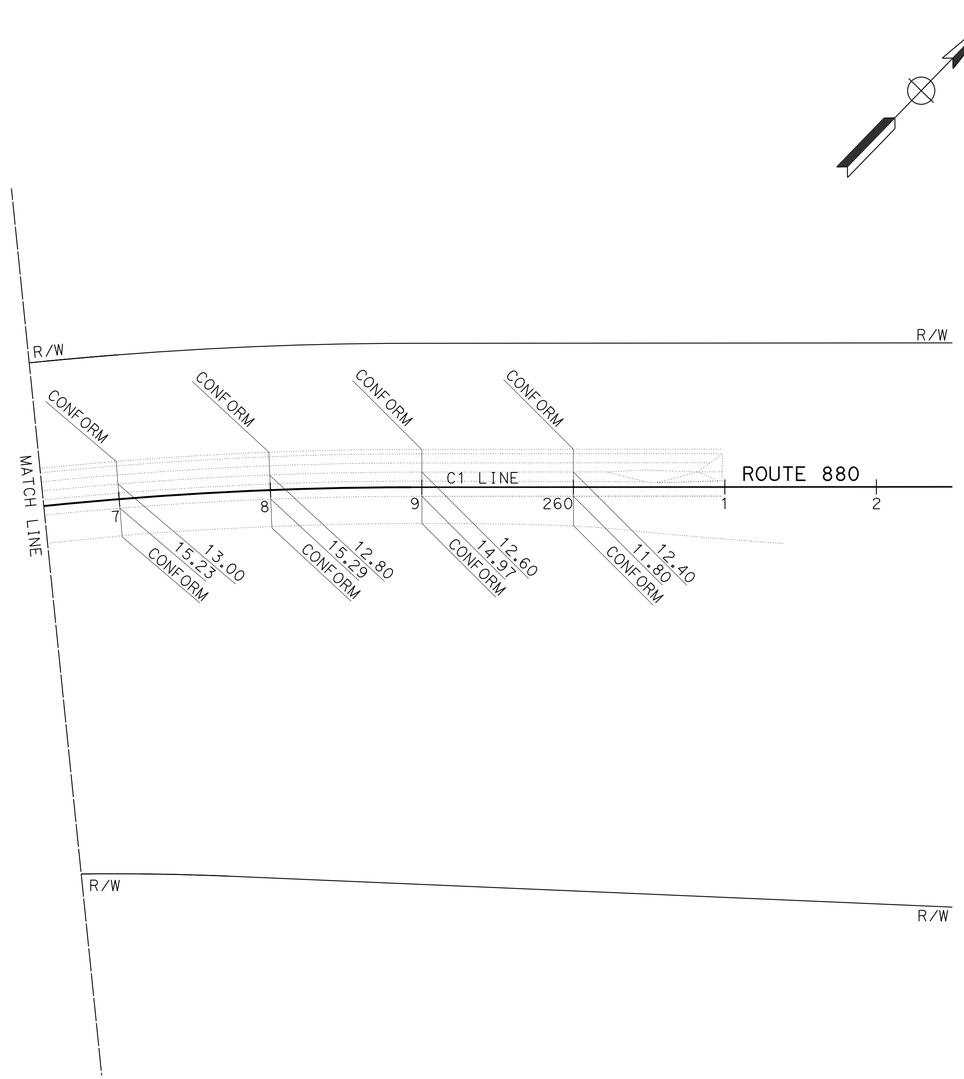
3-24-14
PLANS APPROVAL DATE

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

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.



APPROVED FOR PAVEMENT ELEVATION WORK ONLY

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

CONSTRUCTION DETAILS
PAVEMENT ELEVATION PLAN

SCALE: 1" = 50'

C-6

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 03-23-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	15	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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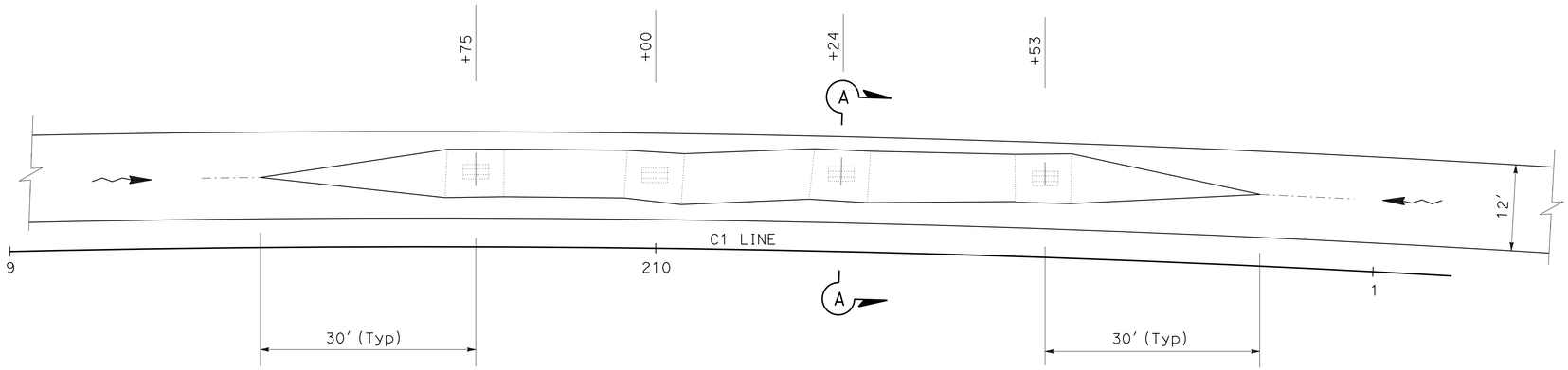
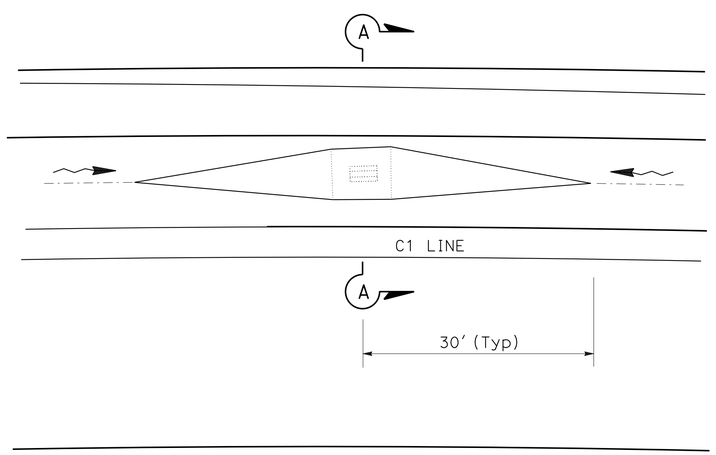


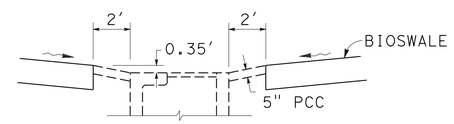
BIOSWALE CONFORM AT EXISTING DRAINAGE SYSTEM

C1 210+00

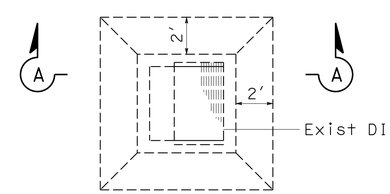


TYPICAL BIOSWALE CONFORM

C1 227+52
C1 236+02
C1 238+70
C1 244+50
C1 260+52



SECTION A-A



PLAN

INLET WITH DEPRESSION APRON

CONSTRUCTION DETAILS

NO SCALE

C-7

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 03-23-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	16	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

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.

ADJUST EXISTING PULL BOXES

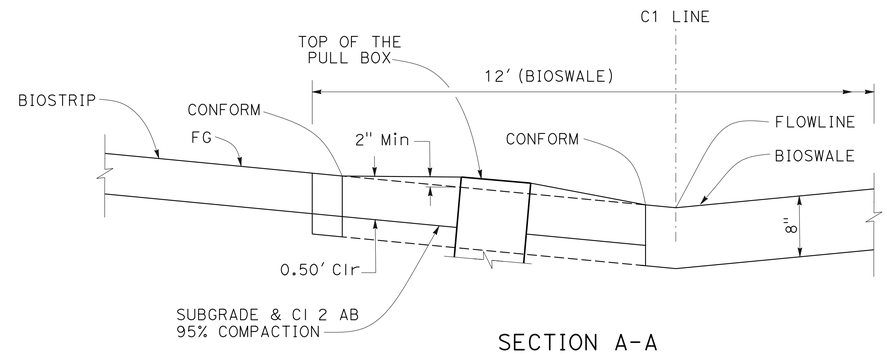
NAME OF UTILITY	STATION
EDGE DRAIN	10.6′ L+ C1 204+74.3
COMMUNICATION	4.1′ L+ C1 205+52.8
COMMUNICATION	3.9′ L+ C1 205+54.3
COMMUNICATION, TELEPHONE	17.6′ L+ C1 209+97.3
COMMUNICATION, TELEPHONE	16.2′ L+ C1 209+97.8
COMMUNICATION	17′ L+ C1 216+14.8
TMS	17.3′ L+ C1 216+17.3
COMMUNICATION	20.8′ L+ C1 223+51.8
TMS	20.8′ L+ C1 223+53.6
COMMUNICATION	19.5′ L+ C1 226+91.7
TMS	19.4′ L+ C1 226+94.6
TRAFFIC & SIGNAL	22.5′ L+ C1 227+04.4
TOS, POWER	20.9′ L+ C1 229+55
WATER	20.6′ L+ C1 230+13.8
COMMUNICATION	19.8′ L+ C1 232+91.8
TMS	20′ L+ C1 232+94.1
WATER	11.5′ L+ C1 236+18.2
UNKNOWN	19.9′ L+ C1 239+17.1
STREET LIGHTING	21.3′ L+ C1 239+17.8
WATER	19.8′ L+ C1 244+12.8
TRAFFIC & SIGNAL	22.2′ L+ C1 244+19.8
COMMUNICATION, TELEPHONE	21.8′ L+ C1 245+03.9
TMS	21.4′ L+ C1 245+06
TOS, POWER	19.8′ L+ C1 245+94
STREET LIGHTING	21.3′ L+ C1 246+25.5
SPRINKLER CONTROL	12.2′ L+ C1 248+17.7
COMMUNICATION	21.3′ L+ C1 251+22.7
TMS	21′ L+ C1 251+25.8
COMMUNICATION	20.5′ L+ C1 256+32.5
TMS	20.1′ L+ C1 256+40.6
TOS, POWER	18.6′ L+ C1 260+87.8
COMMUNICATION	18.8′ L+ C1 260+89

NOTE:

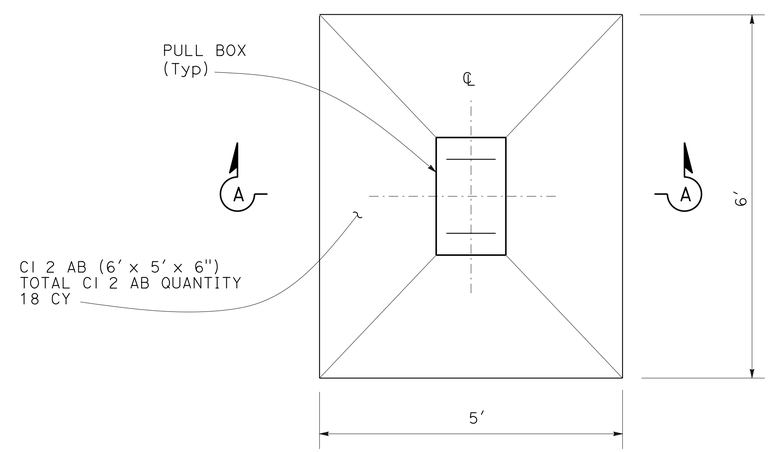
1. EXISTING PULL BOXES WITHIN THE LIMITS OF THE COMPOST AMENDED SOIL SHALL BE ADJUSTED AS SHOWN IN THE DETAIL BELOW.
2. FOR ALL OTHER EXISTING PULL BOXES, MINOR ADJUSTMENT MAY BE MADE IN THE FINISHED GRADE TO CONFORM TO THE EXISTING PULL BOXES AS DIRECTED BY THE ENGINEER.

ABBREVIATION:

& AND



SECTION A-A



PLAN

ADJUST EXISTING PULL BOX (TYPICAL EXISTING PULL BOX WITHIN THE LIMITS OF THE COMPOST AMENDED SOIL)

CONSTRUCTION DETAILS

NO SCALE

C-8

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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

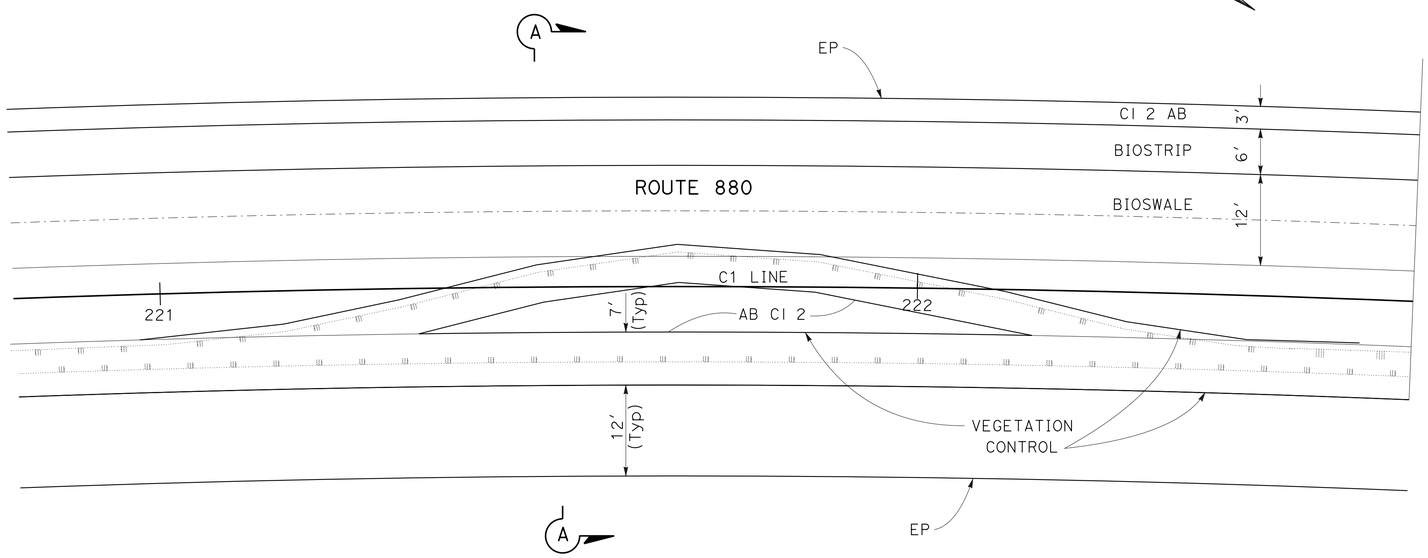
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	17	48

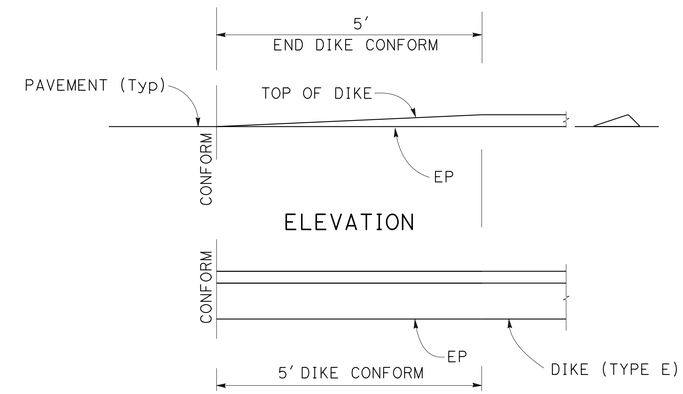
REGISTERED CIVIL ENGINEER 3/18/14 DATE

3-24-14
PLANS APPROVAL DATE

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

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.



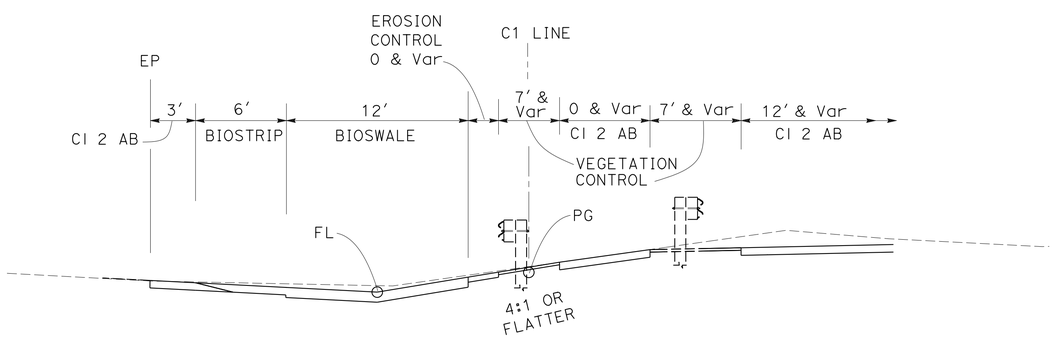


END DIKE CONFORM

25' Rt C1 223+00
25' Rt C1 236+09
25' Rt C1 238+18
25' Rt C1 239+50

NOTE:

1. FOR LIMITS OF THE VEGETATION CONTROL, SEE REVISED STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.



SECTION A-A
C1 220+90 TO 222+40

FOR ABBREVIATIONS, SEE SHEET C-8

CONSTRUCTION DETAILS

NO SCALE

C-9

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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	18	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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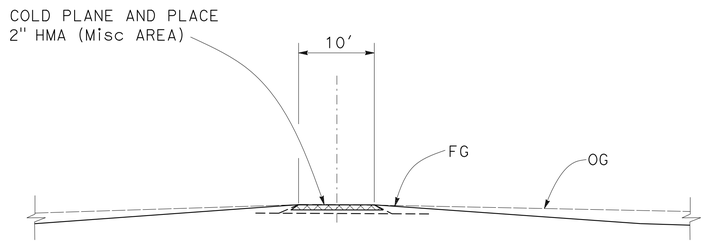
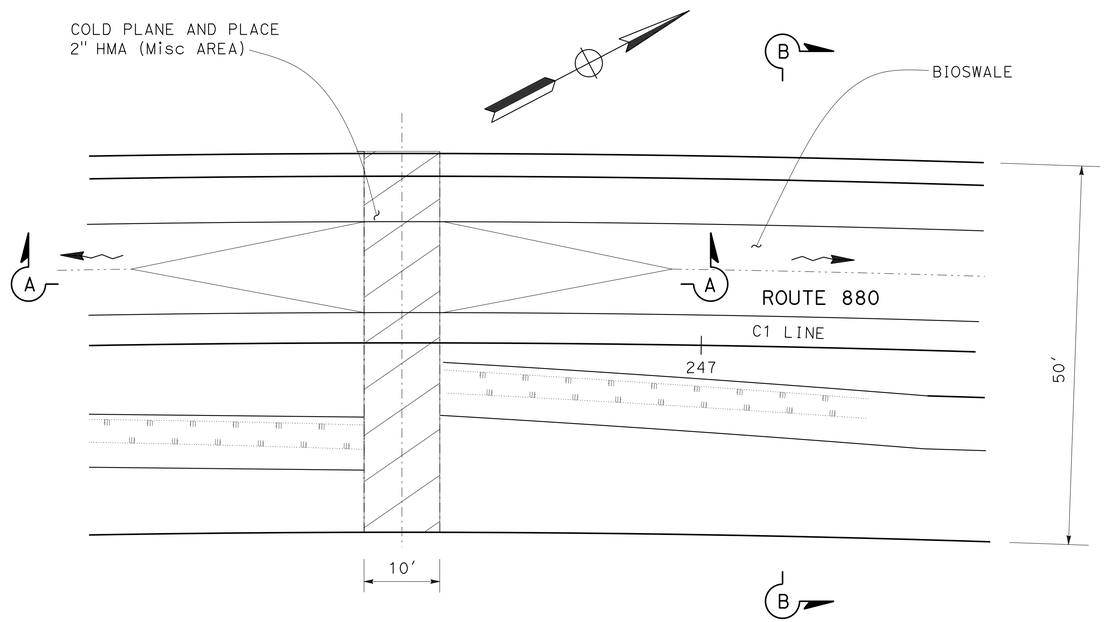


SECTION A-A

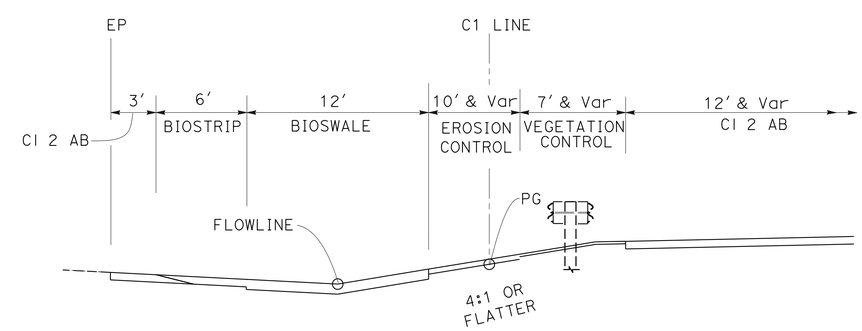


EXISTING EMERGENCY PASSAGEWAY

C1 246+60

NOTE:

1. FOR LIMITS OF THE VEGETATION CONTROL, SEE REVISED STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.



SECTION B-B

C1 246+00 TO 247+30

FOR ABBREVIATIONS, SEE SHEET C-8

CONSTRUCTION DETAILS

NO SCALE

C-10

REVISED BY	DATE REVISED
HS	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 03-23-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	19	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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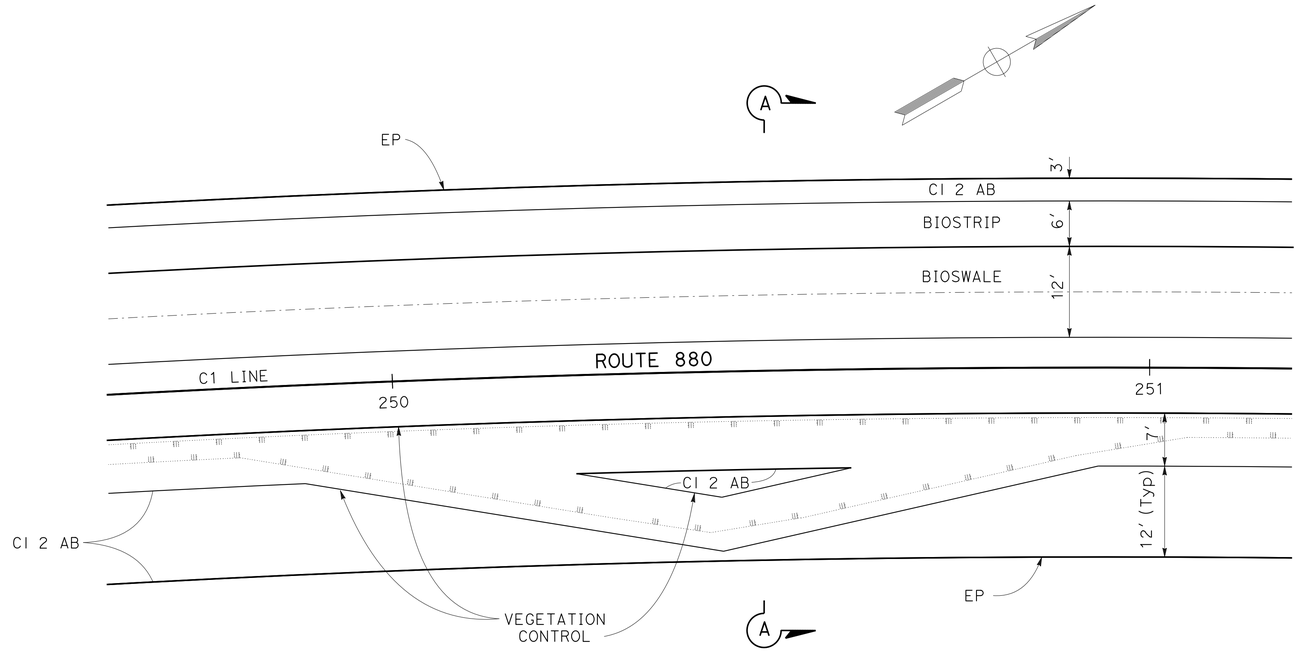
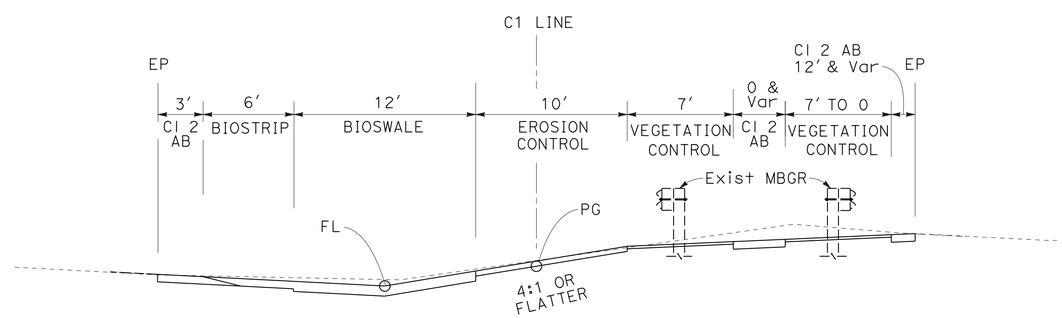


NOTE:

1. FOR LIMITS OF THE VEGETATION CONTROL, SEE REVISED STANDARD PLANS OR AS DIRECTED BY THE ENGINEER.



SECTION A-A
C1 249+80 TO 251+05

FOR ABBREVIATIONS, SEE SHEET C-8

CONSTRUCTION DETAILS

NO SCALE

C-11

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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	20	48

REGISTERED CIVIL ENGINEER 3/18/14 DATE

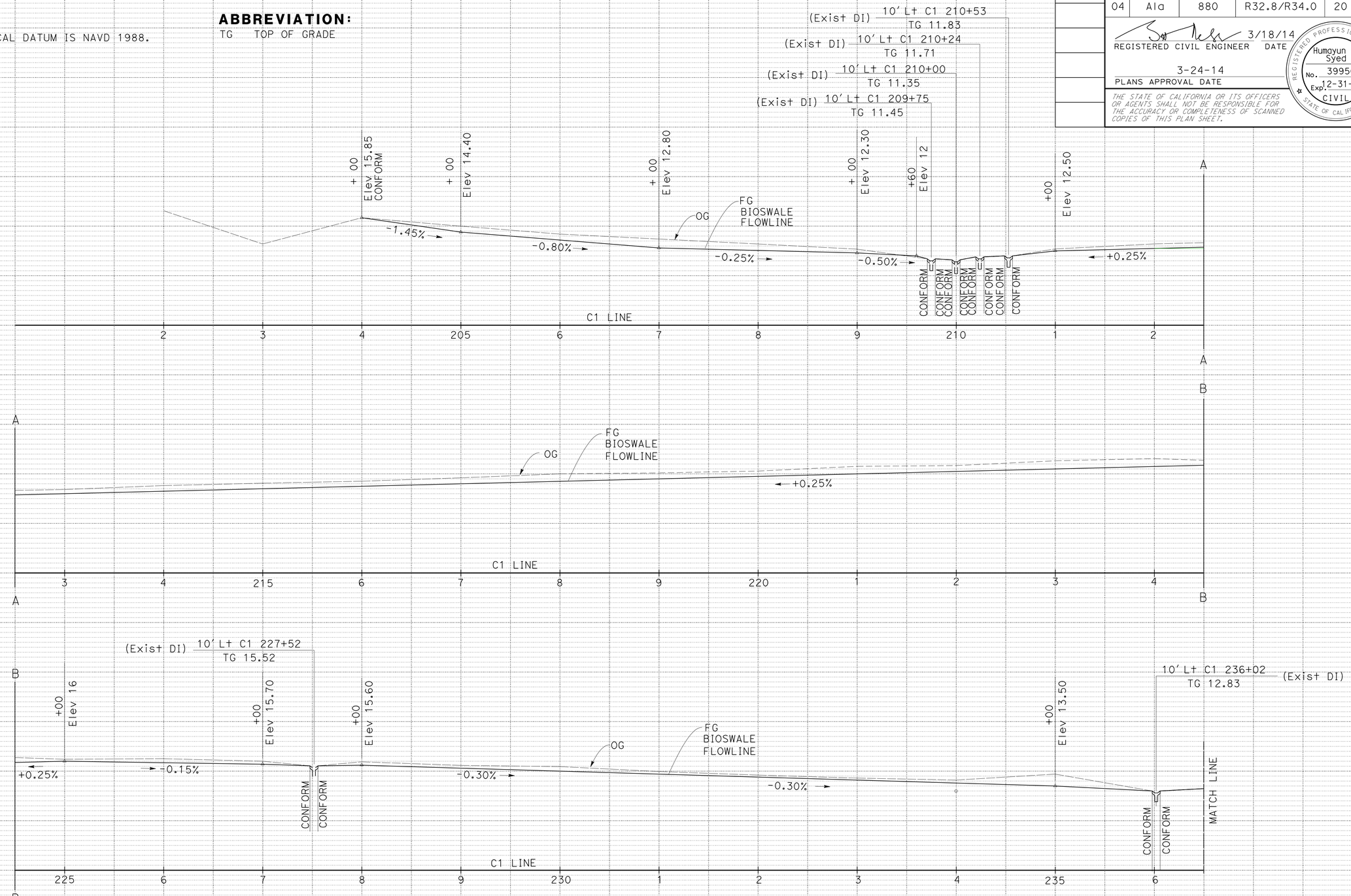
3-24-14
PLANS APPROVAL DATE

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

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:
1. THE VERTICAL DATUM IS NAVD 1988.

ABBREVIATION:
TG TOP OF GRADE



BIOSWALE PROFILE

DRAINAGE PROFILES

SCALE: HORIZ 1" = 50'
VERT 1" = 10'

DP-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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

BORDER LAST REVISED 2/1/2013 | USERNAME => s126849 | DGN FILE => 04000209321b001.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0730 | PROJECT NUMBER & PHASE 04000209321

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	21	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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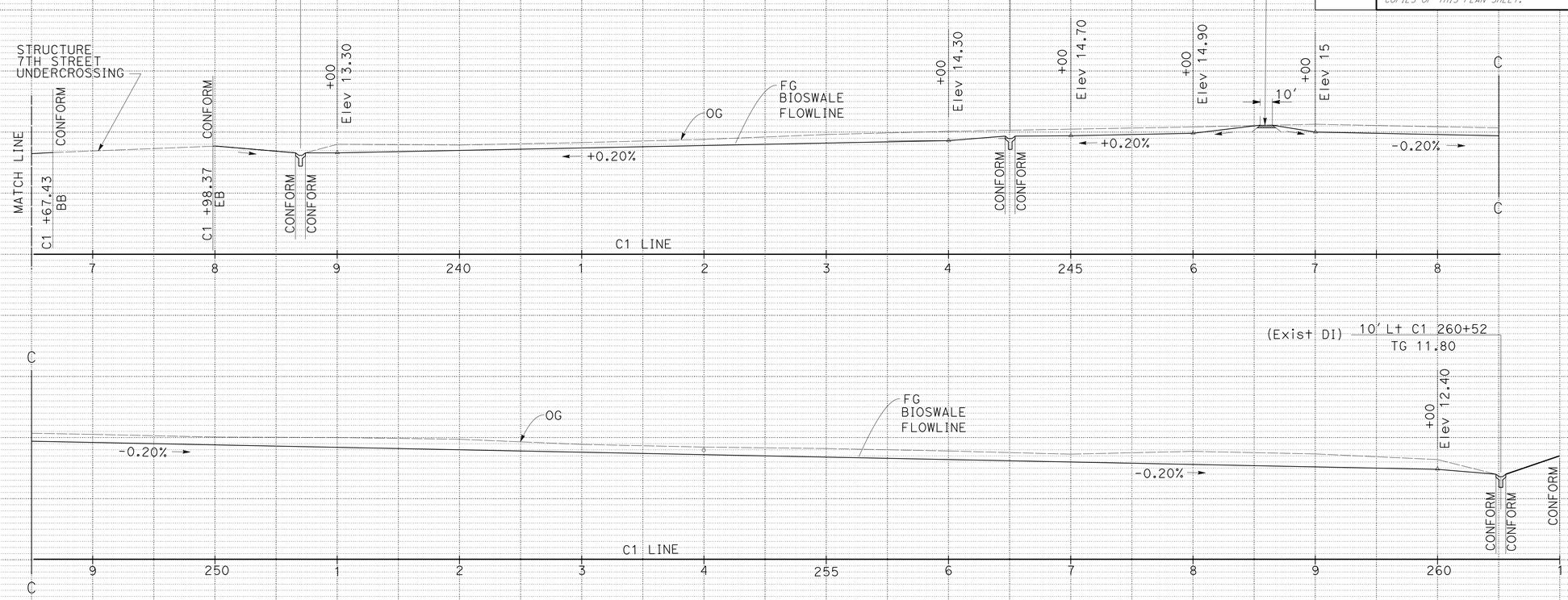


BIOSWALE PROFILE

DRAINAGE PROFILES

SCALE: HORIZ 1" = 50'
VERT 1" = 10'

DP-2

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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	22	48

REGISTERED CIVIL ENGINEER 3/20/14 DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Cheuk Hong Wong No. 60145 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.

NOTE:

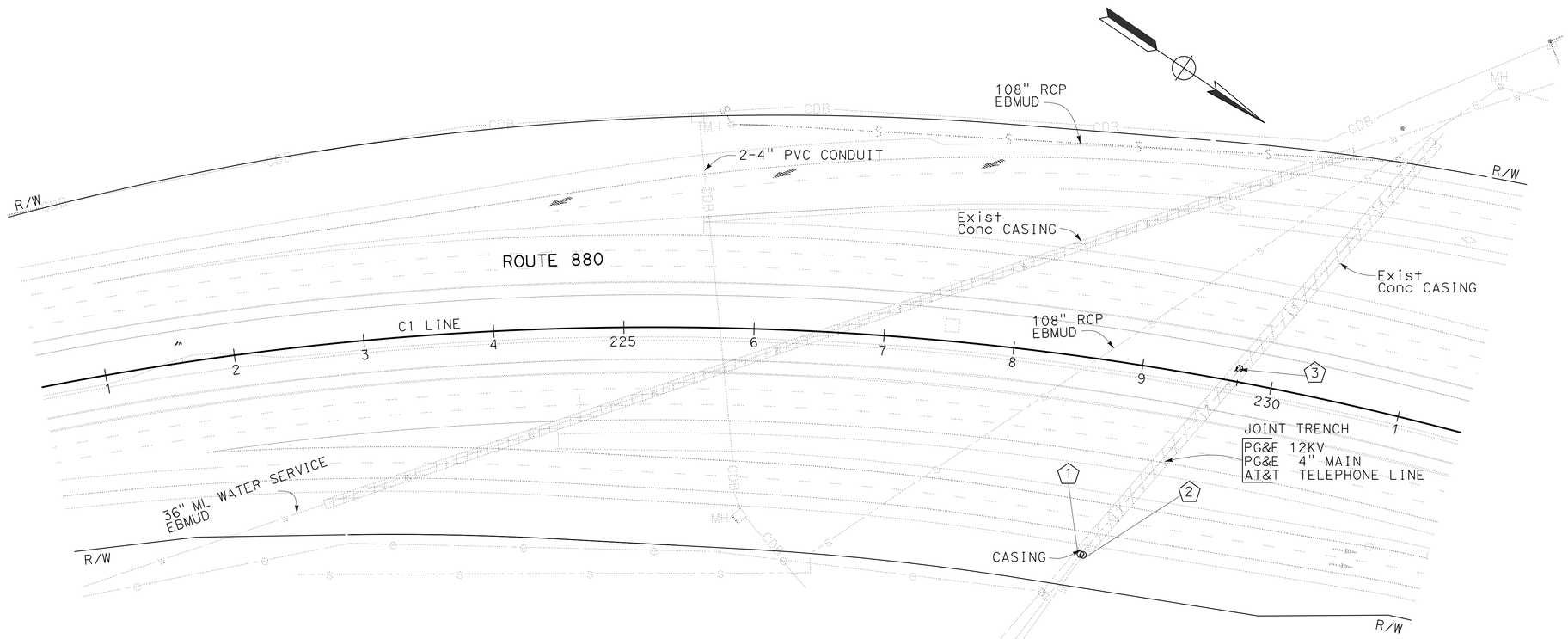
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

NOTES:

1. ELEVATIONS SHOWN REFER TO TOP OF PIPE OR CONDUIT, UNLESS OTHERWISE STATED.
2. PG&E GAS/ELECTRICAL FACILITIES LOCATIONS HAVE BEEN VERIFIED BY POTHOLING (150.44' Rt C1 228+80 AND 10.24' Lt C1 229+73.6).
3. ALL UTILITIES ARE EXISTING AND NO RELOCATION REQUIRED.

LEGEND:

UTILITIES	EXISTING UTILITIES	OWNERSHIP
WATER	-——w———	EAST BAY MUNICIPAL UTILITY DISTRICT (EBMUD)
GAS	--g———-———-g-	PACIFIC GAS AND ELECTRIC (PG&E)
SEWER	--s———--———--s-	EAST BAY MUNICIPAL UTILITY DISTRICT (EBMUD)
ELECTRIC	--e———-———-e-	PACIFIC GAS AND ELECTRIC (PG&E)
TELEPHONE	--t———-———--t-	AMERICAN TELEPHONE AND TELEGRAPH (AT&T)
EXISTING COMMUNICATION DUCT BANK	———CDB———	MCI, WU, SPT AND SPCOM



POTHOLE LOCATION INFORMATION

No.	NORTHING	EASTING	TOP OF CASING ELEVATION	DEPTH
1	2120892.313	6040703.057	5.79	6.08'
2	2120894.324	6040702.411	5.79	6.17'
3	2120913.608	6040516.615	13.68	1.42'

UTILITY PLAN

SCALE: 1" = 50'

APPROVED FOR UTILITY WORK ONLY

U-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: SID PAWAR
CALCULATED-DESIGNED BY: SAMI HASSOUNEH
CHECKED BY: HONG WONG
REVISED BY: HS
DATE REVISED: 3/23/14

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	23	48

Jeri-Paul Fabian 3/18/14
REGISTERED CIVIL ENGINEER DATE

3-24-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Jeri-Paul F. Fabian
No. 81174
Exp. 9-30-15
CIVIL
STATE OF CALIFORNIA

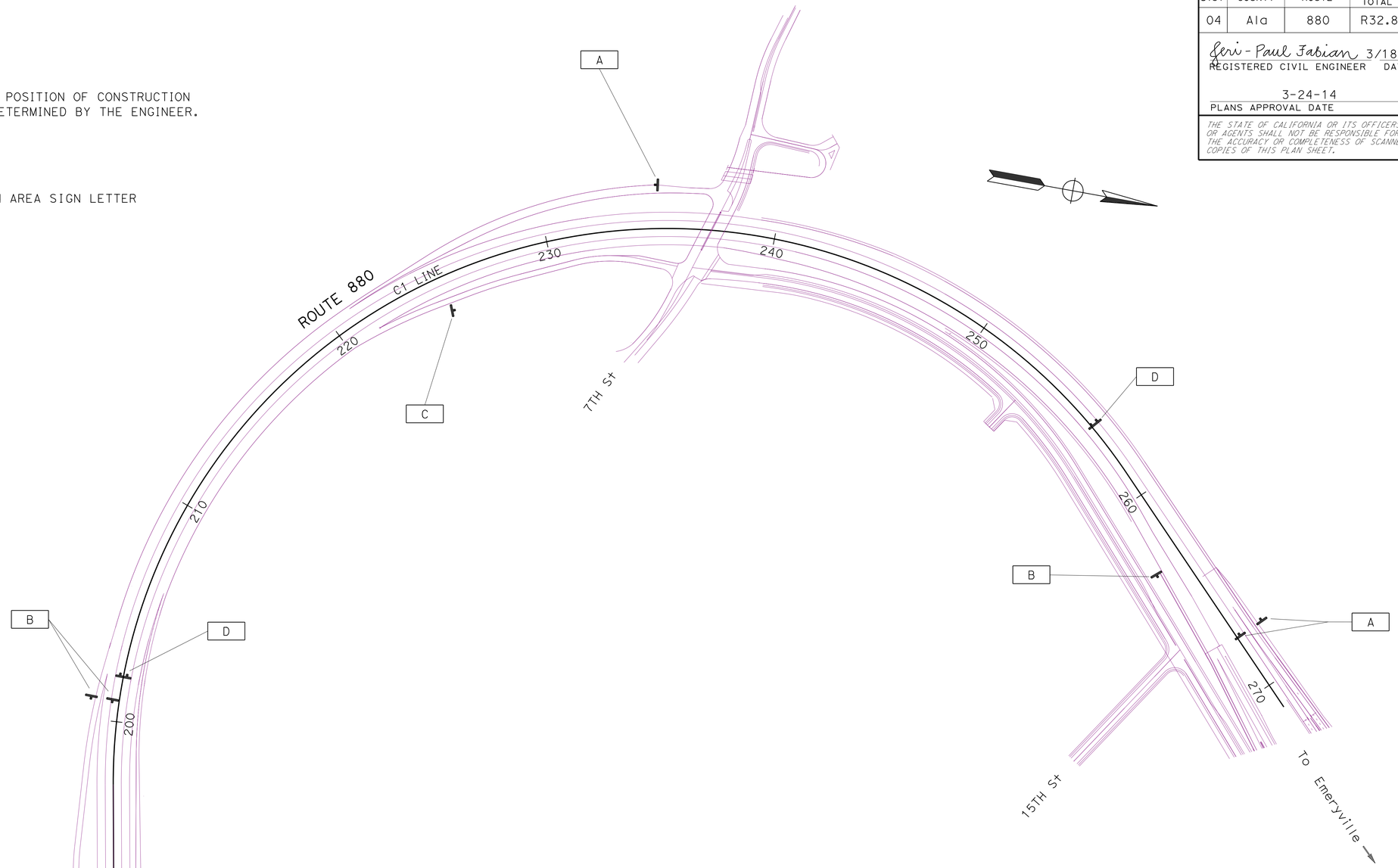
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

1. EXACT LOCATION AND POSITION OF CONSTRUCTION AREA SIGNS TO BE DETERMINED BY THE ENGINEER.

LEGEND:

CONSTRUCTION AREA SIGN LETTER



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	MUTCD CODE	MESSAGE	PANEL SIZE	NUMBER OF POST AND SIZE	No. OF SIGNS
A	W20-1	ROAD WORK AHEAD	48" x 48"	(ONE) 4" x 6"	5
B	G20-2	END ROAD WORK	48" x 24"	(ONE) 4" x 4"	3
C	G20-2	END ROAD WORK	36" x 18"	(ONE) 4" x 4"	1
D	C40(CA)	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	144" x 60"	(TWO) 6" x 8"	2

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: LOURDES DAVID
CALCULATED-DESIGNED BY: JERI-PAUL FABIAN
CHECKED BY: CLAUDIA FANG
REVISED BY: JF
DATE REVISED: 3/23/14

LAST REVISION 03-23-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	24	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

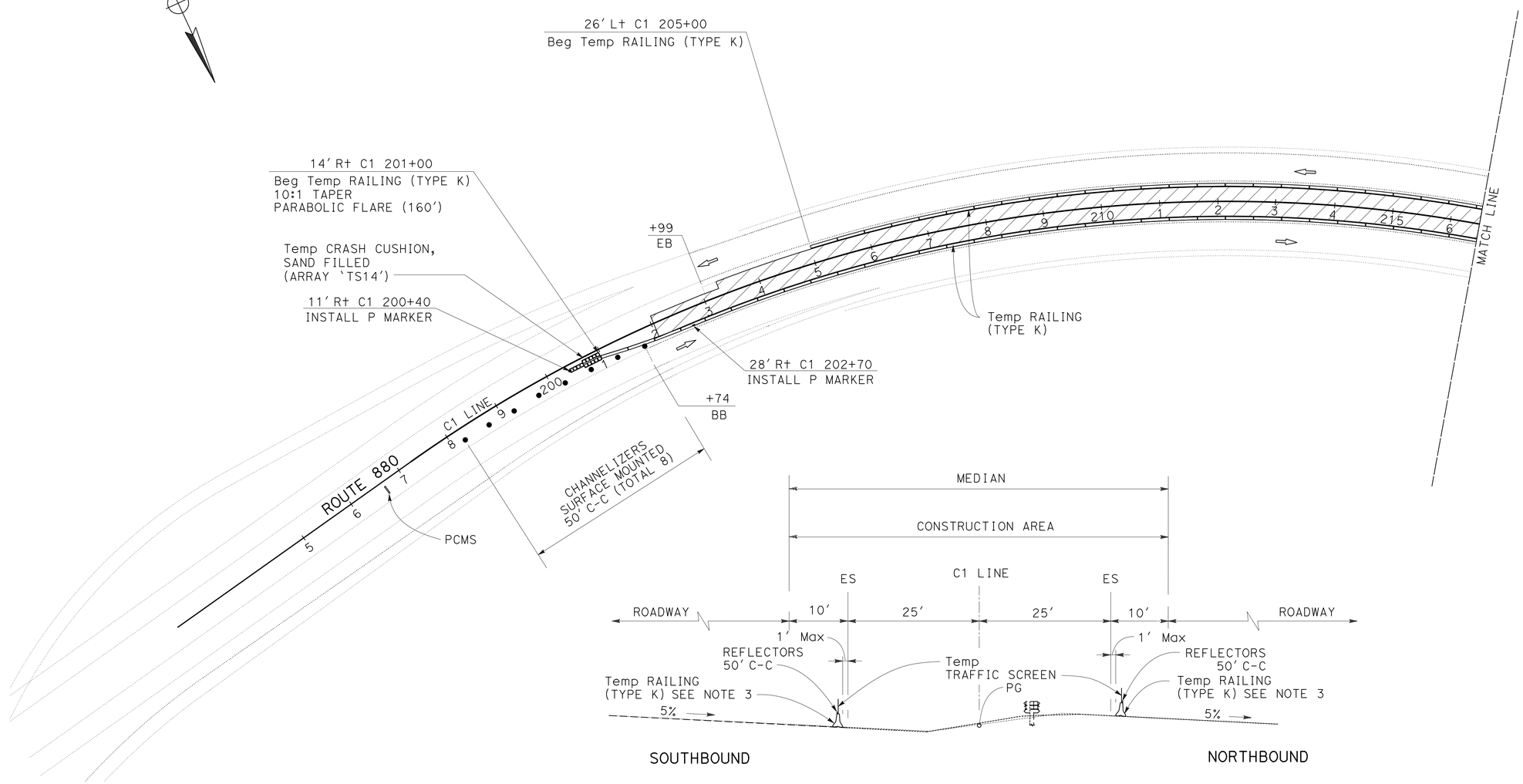
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. PCMS SIGN SHALL BE USED AS DIRECTED BY THE ENGINEER.
2. ADDITIONAL OPENING FOR TRUCKS TO ENTER/EXIT WORK AREA FROM SB AND NB Rte 880 SHALL BE AS DIRECTED BY THE ENGINEER.
3. FOR PLACING Temp RAILING (TYPE K), SEE STANDARD PLAN T3B.

LEGEND:

- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- CONSTRUCTION AREA
- REFLECTORS
- CHANNELIZERS SURFACE MOUNTED
- Temp CRASH CUSHION, SAND FILLED



TYPICAL CROSS SECTION

C1 202+00 TO 216+50

TRAFFIC HANDLING PLAN

SCALE: 1" = 100'

APPROVED FOR TRAFFIC HANDLING WORK ONLY

TH-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	25	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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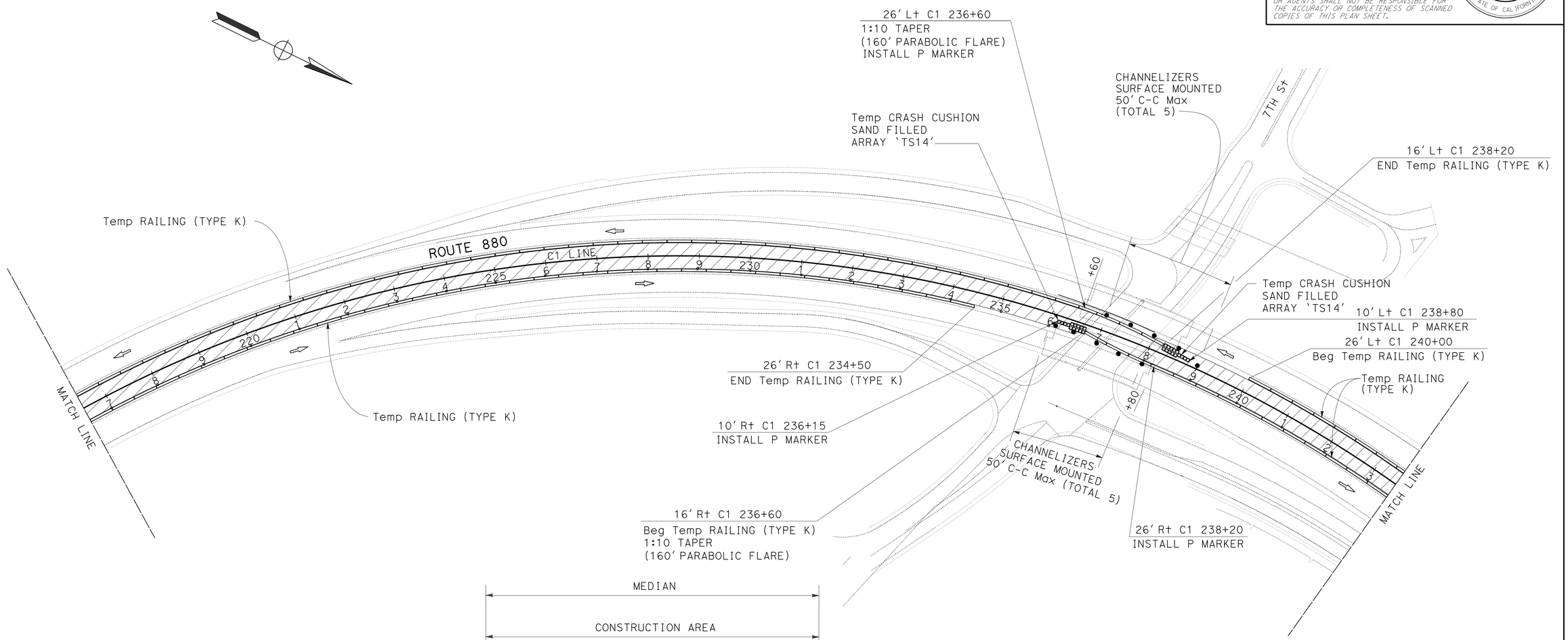

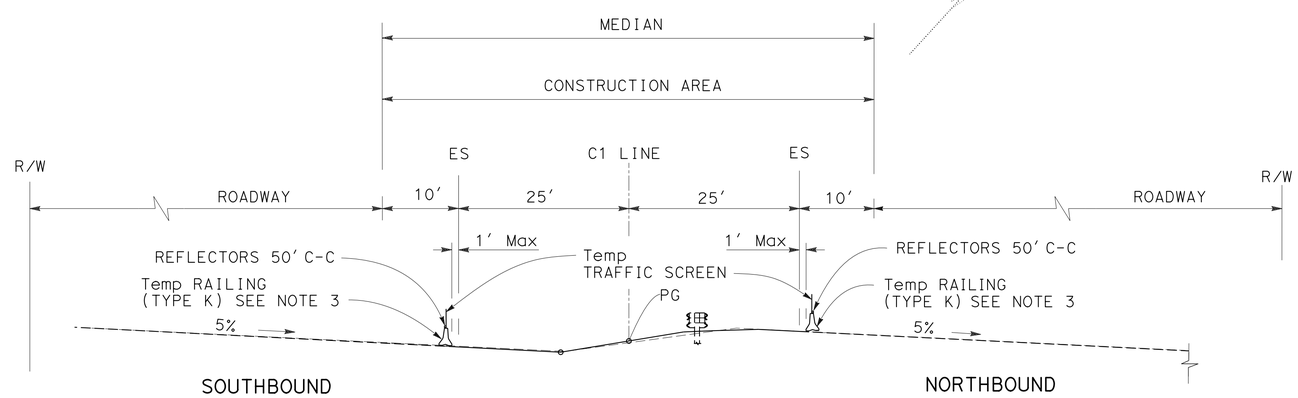

TYPICAL CROSS SECTION

C1 216+50 TO 243+50

APPROVED FOR TRAFFIC HANDLING WORK ONLY

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

TRAFFIC HANDLING PLAN

SCALE: 1" = 100'

TH-2

REVISED BY	DATE REVISED
HS	3/23/14

CALCULATED-DESIGNED BY: HUMAYUN R. SYED
CHECKED BY: JAIME E. GUTIERREZ
FUNCTIONAL SUPERVISOR: SID PAWAR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION: DATE PLOTTED => 31-MAR-2014
03-23-14 TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	26	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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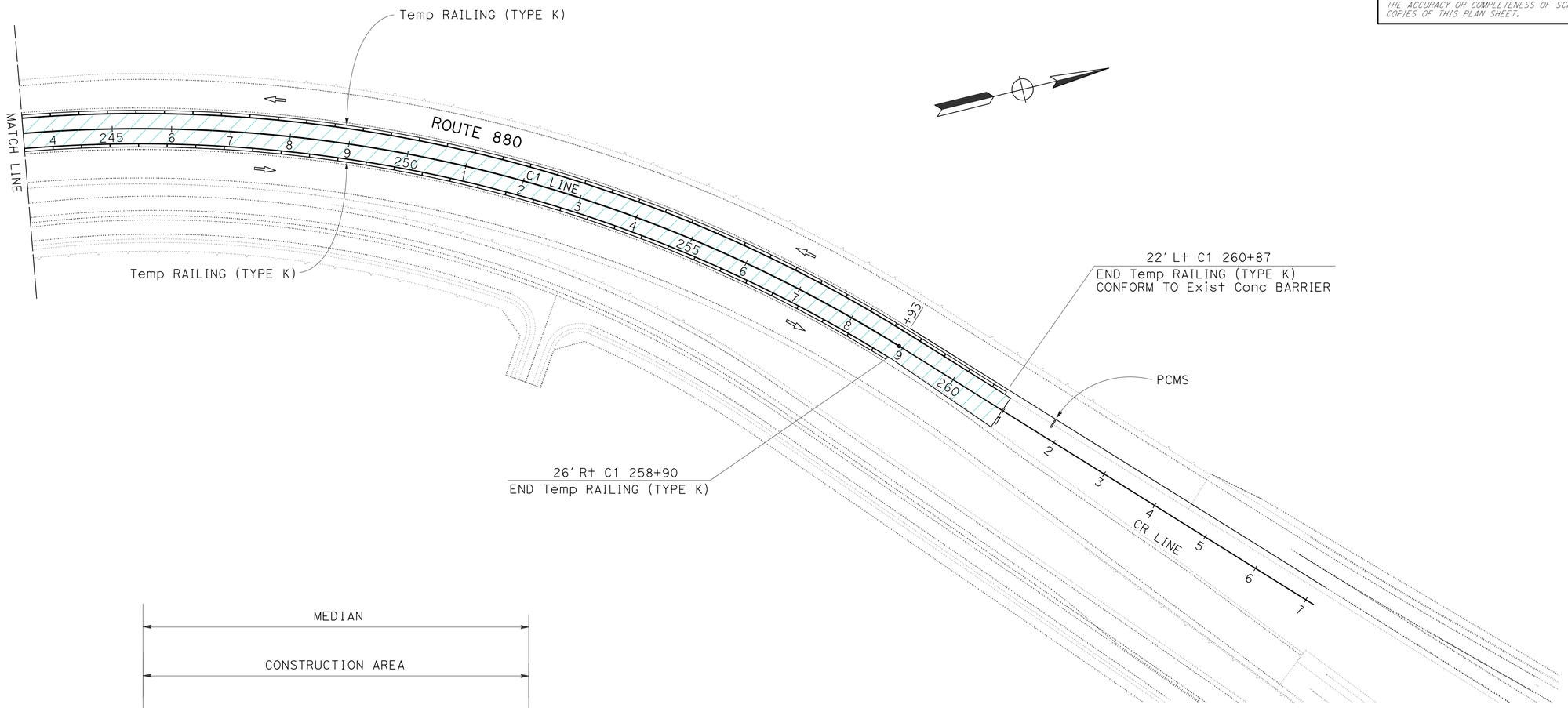

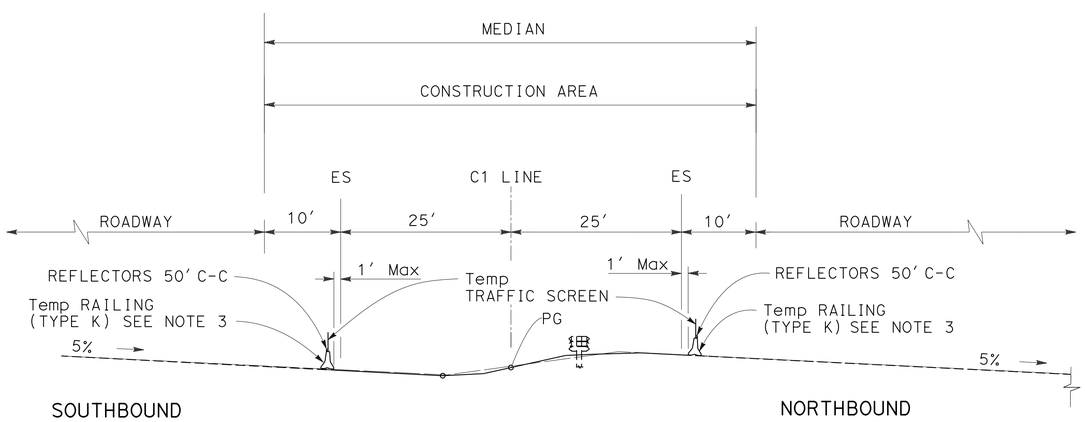

TYPICAL CROSS SECTION
C1 243+50 TO 261+00

TRAFFIC HANDLING PLAN

SCALE: 1" = 100'

TH-3

APPROVED FOR TRAFFIC HANDLING WORK ONLY

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

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

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

LAST REVISION 03-23-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:42

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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

EARTHWORK QUANTITIES

SHEET No.	STATION LIMITS	ROADWAY EXCAVATION (CY)	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

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 CRASH CUSHION MODULE

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

PLACE HMA DIKE (TYPE E)
PLACE HMA MISCELLANEOUS AREA

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

OBJECT MARKER (TYPE)

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

CHANNELIZER (SURFACE MOUNTED)

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

ROADWAY QUANTITIES

SHEET No.	STATION LIMITS	HMA MISCELLANEOUS (AREAS AND DIKES) TON	LIQUID ASPHALT (PRIME COAT) TON	TACK COAT TON	COLD PLANE ASPHALT CONCRETE PAVEMENT SQYD	CLASS 2 AGGREGATE BASE CY L+	CLASS 2 AGGREGATE BASE CY R+
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	

TEMPORARY RAILING (TYPE K)
TEMPORARY TRAFFIC SCREEN

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

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 03-23-14
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	28	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
11-30-14 Expiration Date
3/17/14 Date
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.

PLANT LEGEND

PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	PERCENTAGE (13)	SIZE	QUANTITY EACH	HOLE SIZE (INCH) Dia	HOLE SIZE (INCH) DEPTH	BASIN TYPE	IRON SULFATE (1)	SOIL AMEND (1)	COMMERCIAL FERTILIZER (1) PLANTING	COMMERCIAL FERTILIZER (1) PLT ESTB	BASIN MULCH (CY)	STAKING	PLANTING LIMITS MINIMUM DISTANCE (ft) FROM ETW	Pvmt	FENCE	WALL	PAVED DITCH	EARTH DITCH	ON CENTER (ft)	REMARKS
T	1		FESTUCA RUBRA	MOLATE FESCUE	35-40	—	(7)	—	—	—	—	—	6 LBS/ 1000 SQFT	6 LBS/ 1000 SQFT	—	—	3	3	1	1	1	—	—	SOD (4)
			HORDEUM BRACHYANTHERUM	MEADOW BARLEY	10-15																			
			HORDEUM CALIFORNICUM	CALIFORNIA BARLEY	10-15																			
			NASSELLA PULCHRA	PURPLE NEDDLEGRASS	35-40																			

APPLICABLE WHEN CIRCLED:

(1) - QUANTITIES SHOWN ARE "PER PLANT" UNLESS SHOWN AS SQFT OR SQYD APPLICATION RATES
2 - BASIN MULCH IS INCLUDED WITH MULCH QUANTITIES SHOWN ON PLANTING PLAN
3 - SUFFICIENT TO RECEIVE ROOT BALL AND AMENDMENTS IF REQUIRED
(4) - SEE DETAIL
5 - SEE SPECIAL PROVISIONS
6 - SEE STANDARD SPECIFICATIONS
(7) - AS SHOWN ON PLANS
8 - UNLESS OTHERWISE SHOWN ON PLANS
9 - FOLIAGE PROTECTOR REQUIRED
10 - ROOT PROTECTOR REQUIRED
11 - ROOT BARRIER REQUIRED
12 - DEPARTMENT-FURNISHED
(13) - PERCENTAGE OF MIX

ABBREVIATIONS:

S - SPHAGNUM PEAT MOSS
N - NITROLIZED FIR BARK
V - VERMICULITE
P - PERLITE
TB - TREE BARK
WC - WOOD CHIP
SB - SHREDDED BARK
TT - TREE TRIMMING

NOTE:

UNDERLINED PORTIONS OF BOTANICAL NAME INDICATE ABBREVIATIONS USED ON PLANTING PLANS.

REVISED BY: CP — DATE REVISED: 02-11-14
CALCULATED-DESIGNED BY: CHRIS PADICK — CHECKED BY: ALEX MCDONALD
SENIOR LANDSCAPE ARCHITECT: DAVID YAM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® WATER QUALITY

PLANT LEGEND
PL-1

LAST REVISION 02-20-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	29	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
SIGNATURE
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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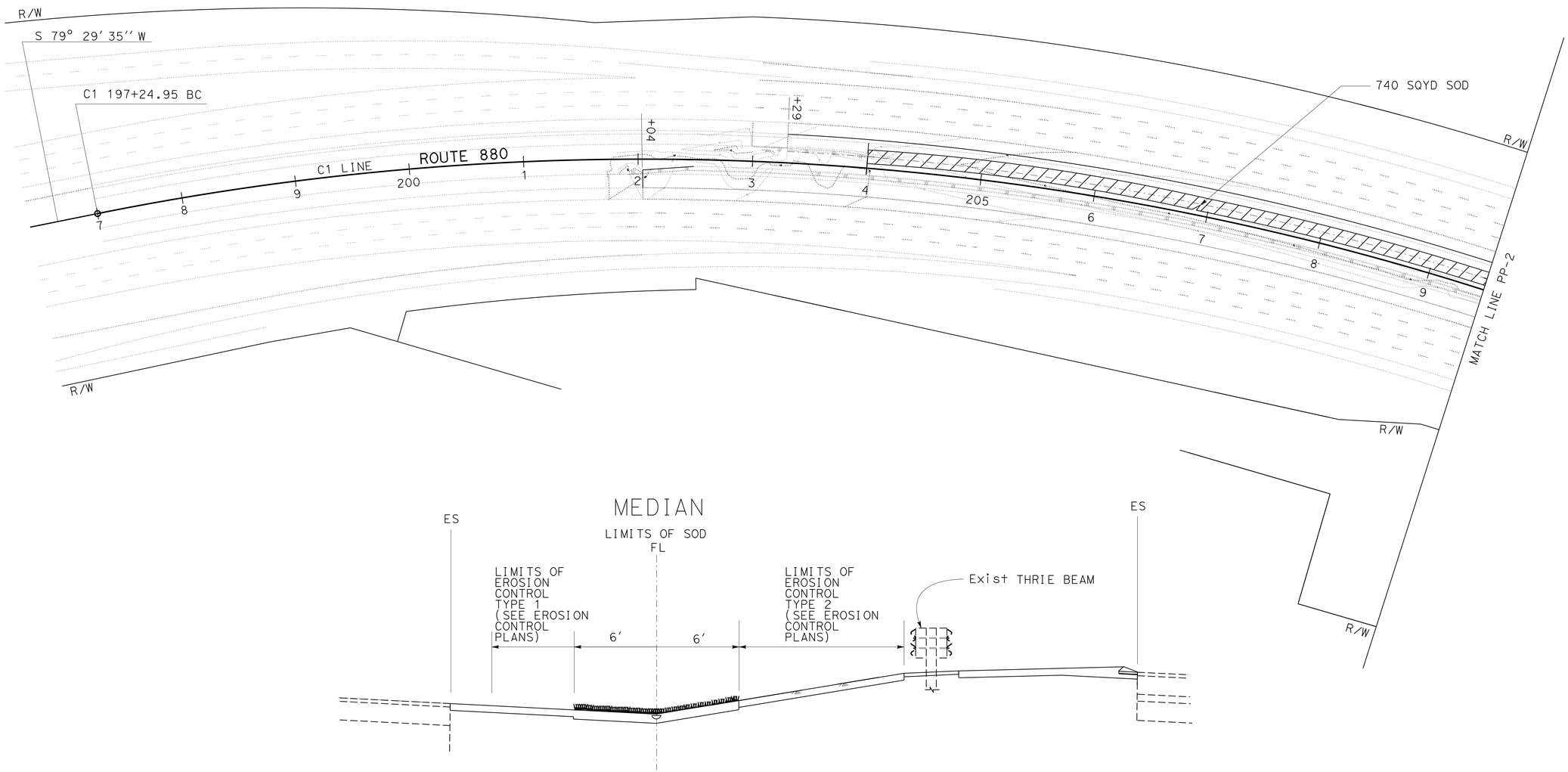
LEGEND:

SOD



SOUTHBOUND
Sta C1 LINE 204+00 to 261+00

NORTHBOUND
Sta C1 LINE 202+00 to 261+00

SECTION
SOD PLACEMENT IN MEDIAN
NOT TO SCALE

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN

SCALE: 1" = 50'

PP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION 03-21-14
DATE PLOTTED => 31-MAR-2014
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LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
Expiration Date 11-30-14
Renewal Date 3/17/14
Date
STATE OF CALIFORNIA

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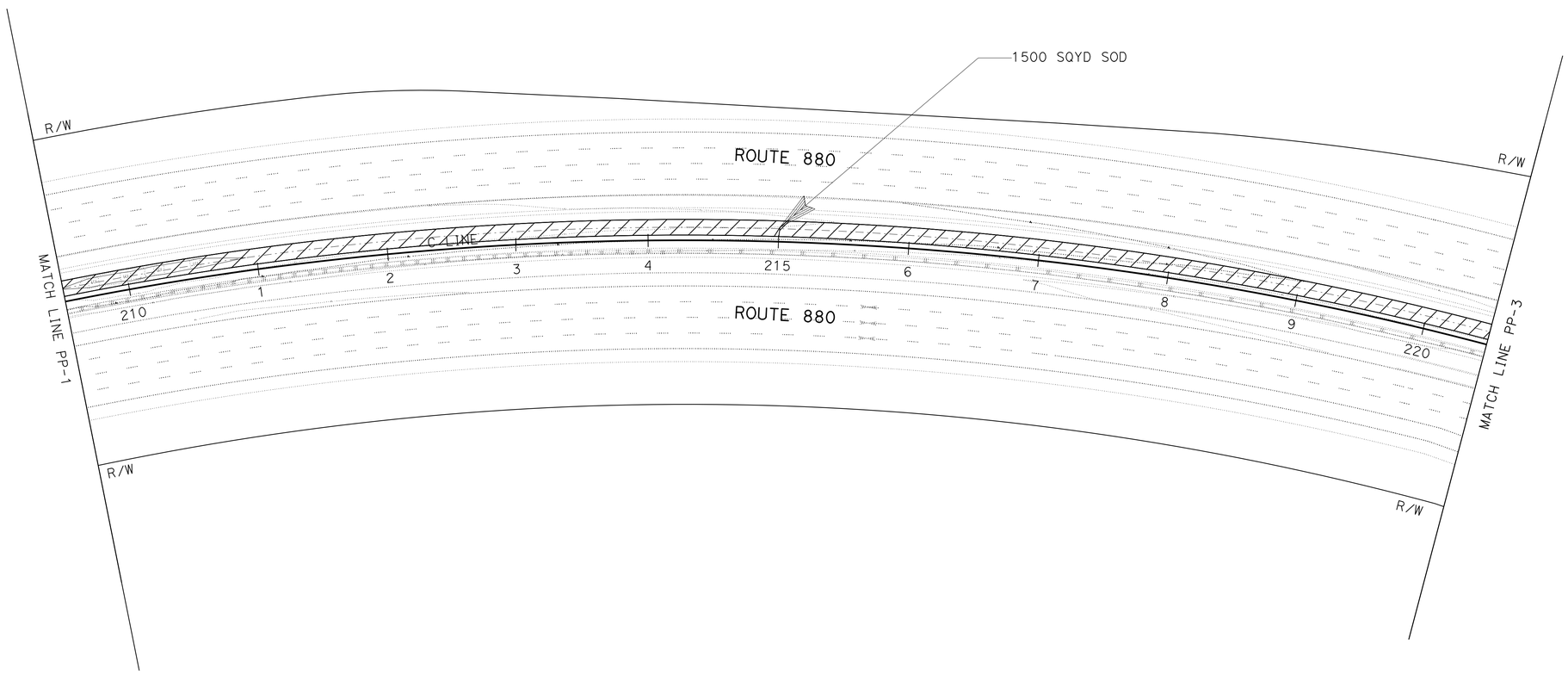

PLANTING PLAN

SCALE: 1" = 50'

PP-2

APPROVED FOR PLANTING WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
WATER QUALITY

SENIOR LANDSCAPE ARCHITECT: DAVID YAM

CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD

REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION 03-21-14
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	31	48

LICENSED LANDSCAPE ARCHITECT

3-24-14

PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4255
Signature
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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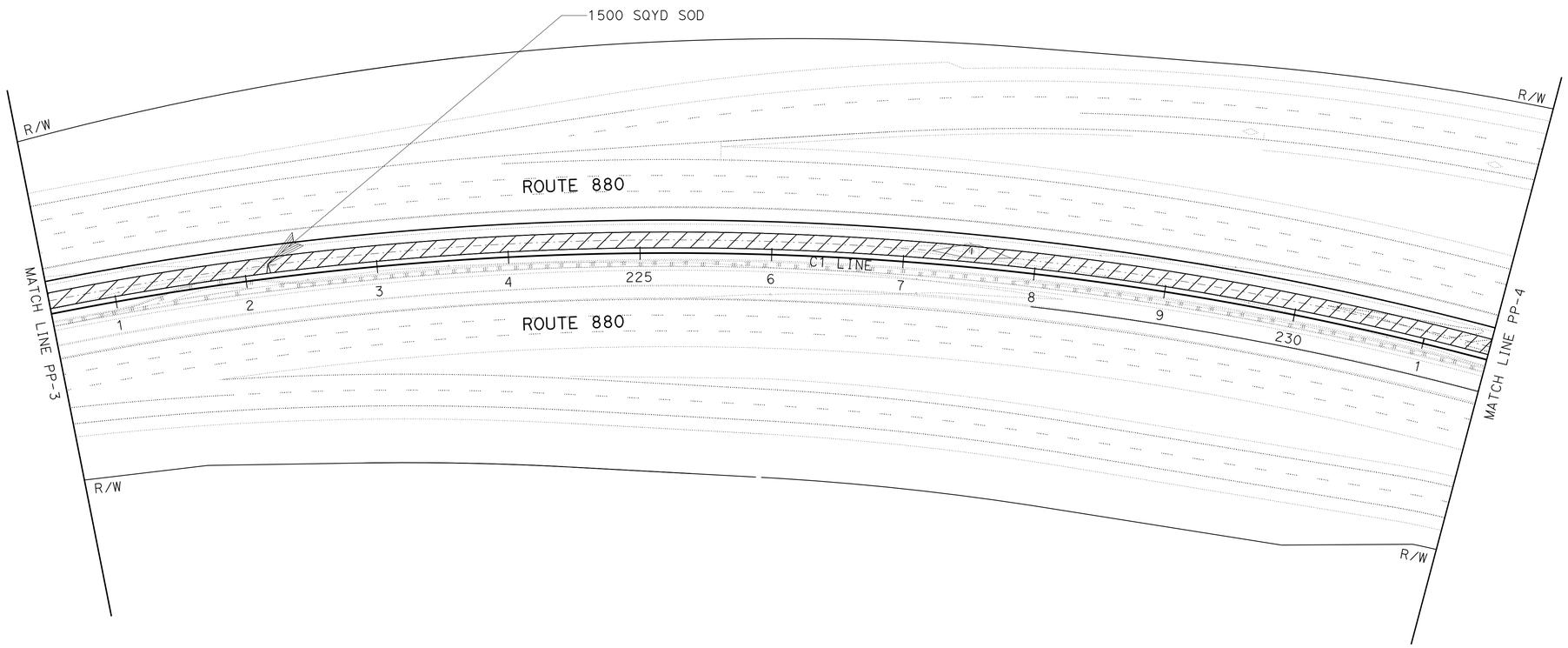

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN

SCALE: 1" = 50'

PP-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM

CALCULATED-DESIGNED BY: CHRIS PADICK

CHECKED BY: ALEX MCDONALD

REVISED BY: CP

DATE REVISED: 02-11-14

LAST REVISION 03-21-14

DATE PLOTTED => 31-MAR-2014
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	32	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
SIGNATURE
11-30-14
Renewal Date
3/17/14
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STATE OF CALIFORNIA

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PLANTING PLAN

SCALE: 1" = 50'

PP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
DATE REVISED: 02-11-14

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	33	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
Signature 11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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PLANTING PLAN

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PP-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

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CALCULATED-DESIGNED BY: CHRIS PADICK
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LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4255
11-30-14
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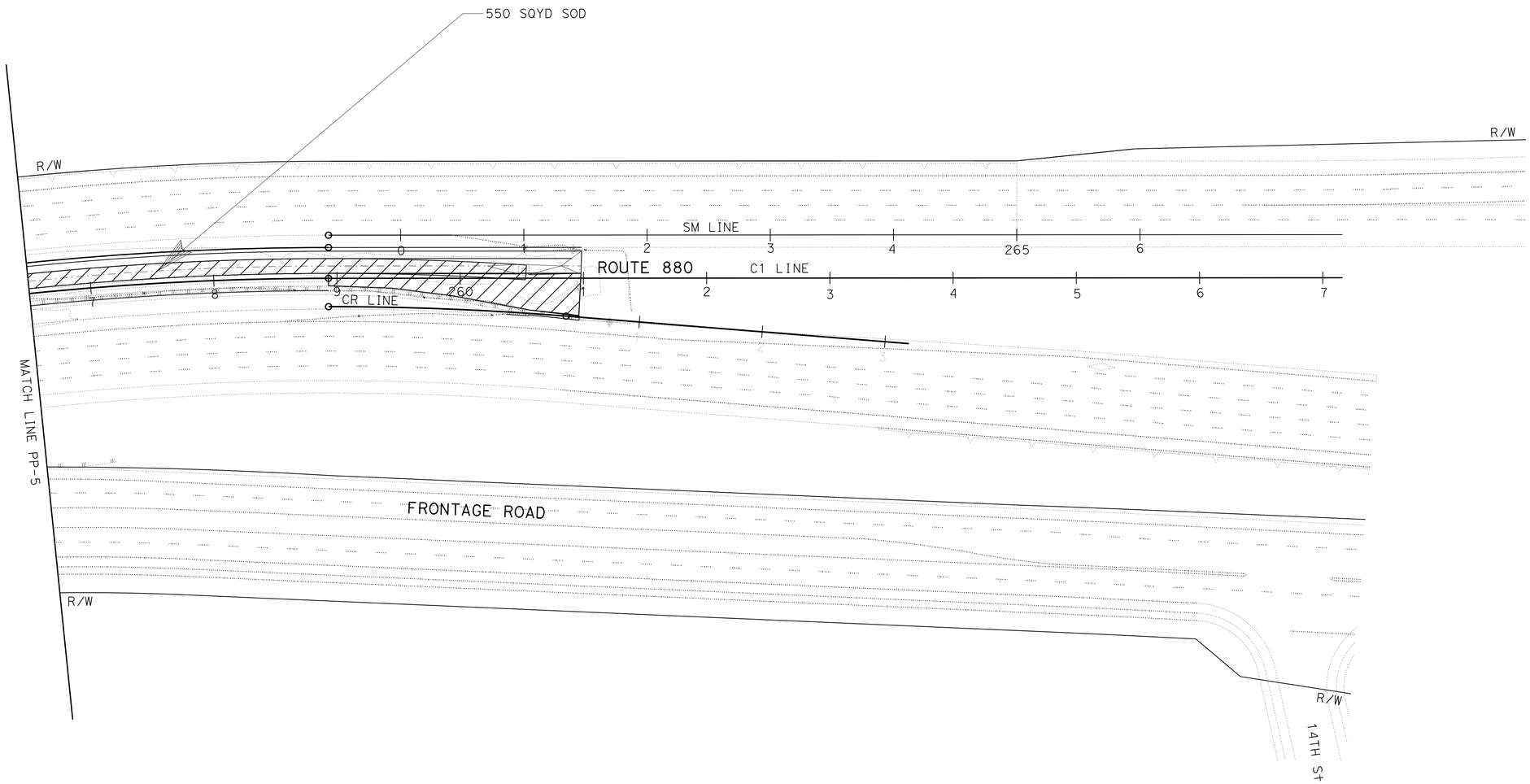

PLANTING PLAN

SCALE: 1" = 50'

APPROVED FOR PLANTING WORK ONLY

PP-6

REVISED BY	DATE REVISED
CP	02-11-14

CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
SENIOR LANDSCAPE ARCHITECT: DAVID YAM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
WATER QUALITY

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PLANT QUANTITIES

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

LANDSCAPE QUANTITIES

LQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® WATER QUALITY

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CHECKED BY: ALEX MCDONALD
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LICENSED LANDSCAPE ARCHITECT

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CHRIS PADICK No. 4259
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EROSION CONTROL TYPE 1

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE	DEPTH
STEP 1	COMPOST	COMPOST	MEDIUM	260 CY/ACRE	
STEP 2	INCORPORATE MATERIALS	COMPOST			6"
STEP 3	HYDROSEED	SEED	MIX 1	64 LB/ACRE	
		FIBER	WOOD	2000 LB/ACRE	
STEP 4	HYDROMULCH	FIBER	WOOD	2000 LB/ACRE	
		TACKIFIER	PSYLLIUM	200 LB/ACRE	

EROSION CONTROL TYPE 2

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE	DEPTH
STEP 1	COMPOST	COMPOST	MEDIUM	67 CY/ACRE	
STEP 2	INCORPORATE MATERIALS	COMPOST			2"
STEP 3	HYDROSEED	SEED	MIX 2	58 LB/ACRE	
		FIBER	WOOD	2000 LB/ACRE	
STEP 4	HYDROMULCH	FIBER	WOOD	2000 LB/ACRE	
		TACKIFIER	PSYLLIUM	200 LB/ACRE	

EROSION CONTROL TYPE 3

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	APPLICATION RATE	DEPTH
STEP 1	COMPOST	COMPOST	MEDIUM	390 CY/ACRE	
STEP 2	INCORPORATE MATERIALS	COMPOST			8"

SEED MIX TYPE 1

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 1	ACHILLEA MILLEFOLIUM[1] (WESTERN YARROW)	56	7
	BROMUS CARINATUS[1] (CALIFORNIA BROME)	75	9
	ELYMUS GLAUCUS, BERKELEY[1] (BLUE WILDRYE, BERKELEY)	56	10
	HORDEUM BRACHYANTHERUM[1] (MEADOW BARLEY)	53	10
	NASSELLA CERNUA (NODDING NEEDLEGRASS)	46	8
	NASSELLA PULCHRA (PURPLE NEEDLEGRASS)	53	10
	TRIFOLIUM WILDENOVII (TOMCAT CLOVER)	53	5
	VULPIA MICROSTACHYS (SMALL FESCUE)	53	5
	TOTALS		64

[1]SEED PRODUCED IN CALIFORNIA ONLY.

FIBER ROLLS

SEQUENCE	ITEM	MATERIAL DESCRIPTION	MATERIAL TYPE	REMARKS
FIBER ROLLS MUST BE INSTALLED AFTER COMPOST AND BEFORE HYDROSEEDING.	FIBER ROLLS	FIBER ROLL	TYPE B 8" TO 10" Dia	TYPE 2 FIBER ROLL INSTALLATION

SEED MIX TYPE 2

SEED	BOTANICAL NAME (COMMON NAME)	PERCENT GERMINATION (MINIMUM)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
MIX 2	ACHILLEA MILLEFOLIUM[1] (WESTERN YARROW)	56	9
	BROMUS CARINATUS[1] (CALIFORNIA BROME)	75	8
	DESCHAMPSIA ELONGATA[1] (SLENDER HAIRGRASS)	53	5
	ERIOGONUM LATIFOLIUM[1] (COAST BUCKWHEAT)	13	4
	LUPINUS ARBOREUS (YELLOW BUSH LUPINE)	53	8
	NASSELLA CERNUA (NODDING NEEDLEGRASS)	46	8
	NASSELLA PULCHRA (PURPLE NEEDLEGRASS)	53	10
	SALVIA MELLIFERA[1] (BLACK SAGE)	33	6
	TOTALS		58

[1]SEED PRODUCED IN CALIFORNIA ONLY.

EROSION CONTROL LEGEND

ECL-1

CP	02-11-14
REVISED BY	DATE REVISED
CHRIS PADICK	ALEX MCDONALD
CALCULATED-DESIGNED BY	CHECKED BY
SENIOR LANDSCAPE ARCHITECT	DAVID YAM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® WATER QUALITY

LAST REVISION 02-20-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	37	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
Signature
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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NOTE:

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

LEGEND:

EROSION CONTROL TYPE 1

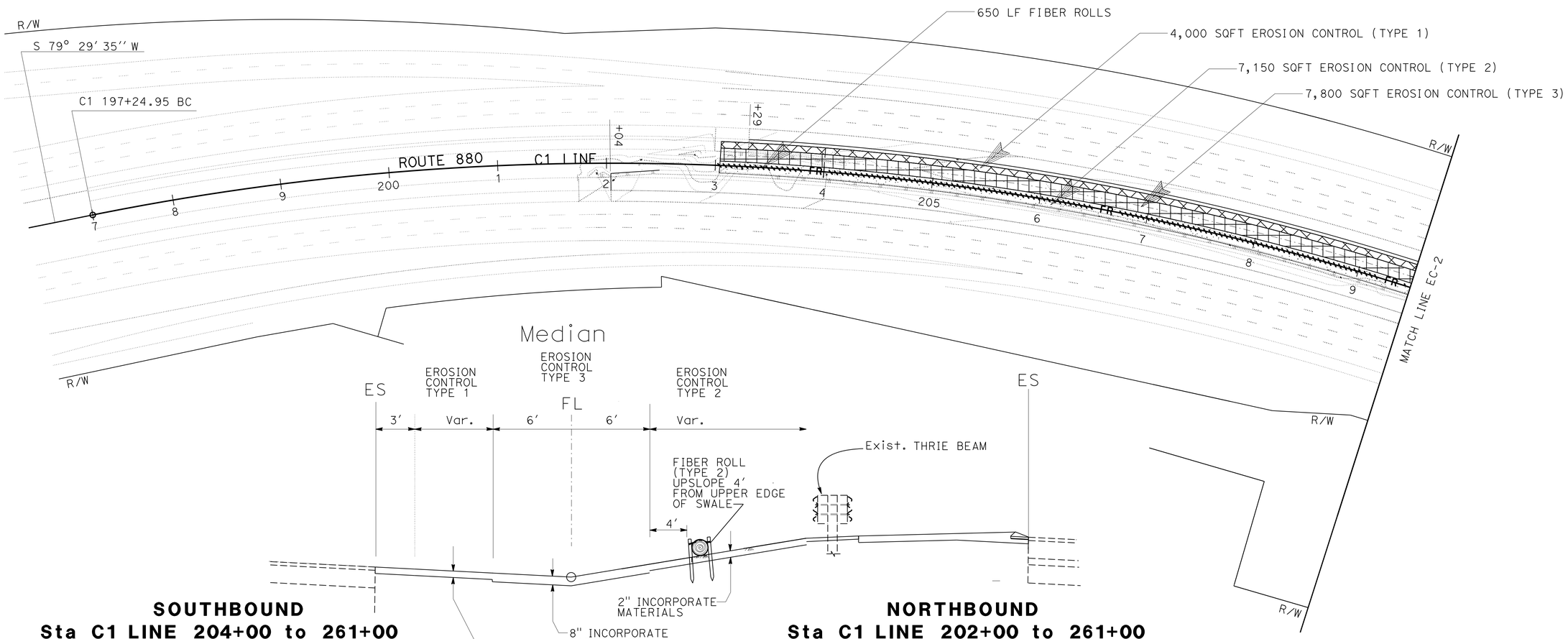
COMPOST
INCORPORATE MATERIAL
HYDROSEED (SEED MIX 1)
HYDROMULCH

EROSION CONTROL TYPE 2

COMPOST
INCORPORATE MATERIAL
HYDROSEED (SEED MIX 2)
HYDROMULCH

EROSION CONTROL TYPE 3

COMPOST
INCORPORATE MATERIAL



SECTION
EROSION CONTROL IN MEDIAN

NOT TO SCALE

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL

SCALE: 1" = 50'

EC-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® WATER QUALITY

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION 03-21-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	38	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
Signature 11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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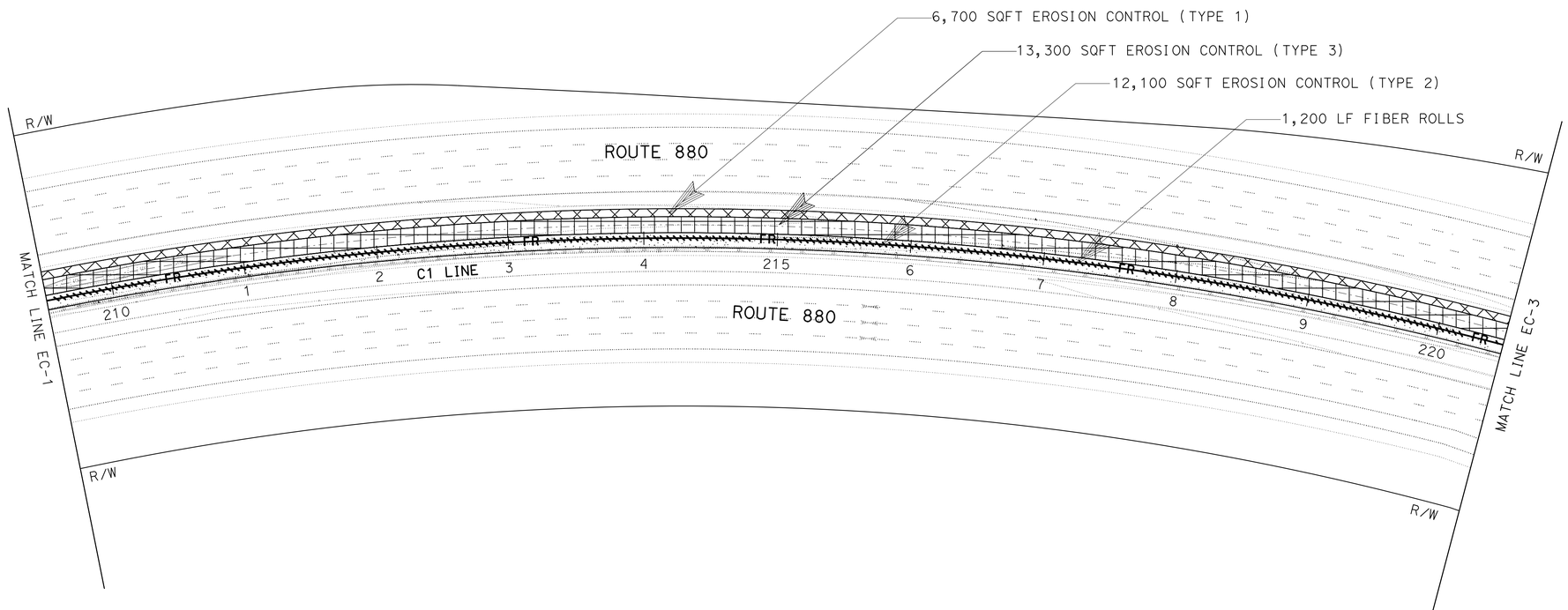

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL

SCALE: 1" = 50'

EC-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM

CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD

REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION 03-21-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	39	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
Signature
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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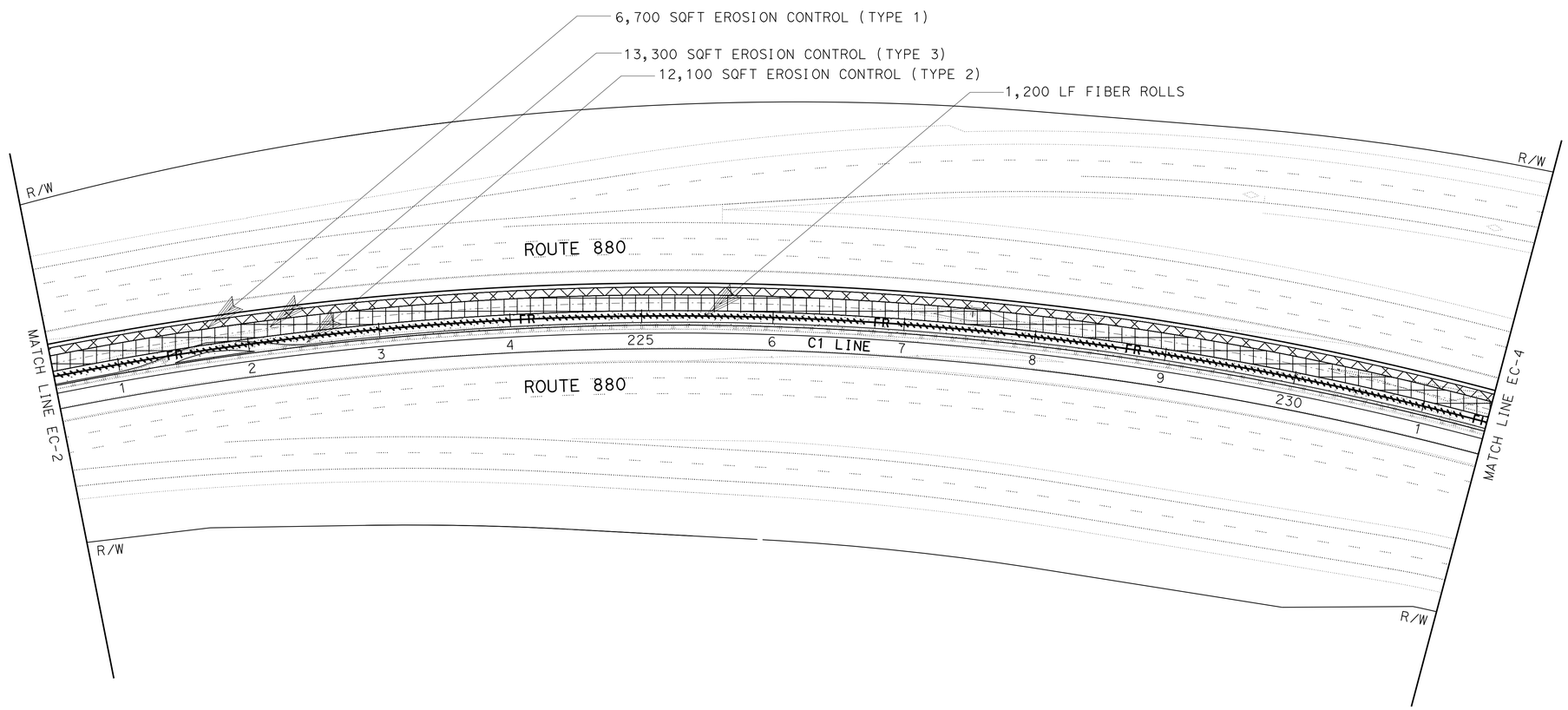

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL

SCALE: 1" = 50'

EC-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION 03-21-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	40	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4232
Signature 11-30-14
Renewal Date 3/17/14
Date
STATE OF CALIFORNIA

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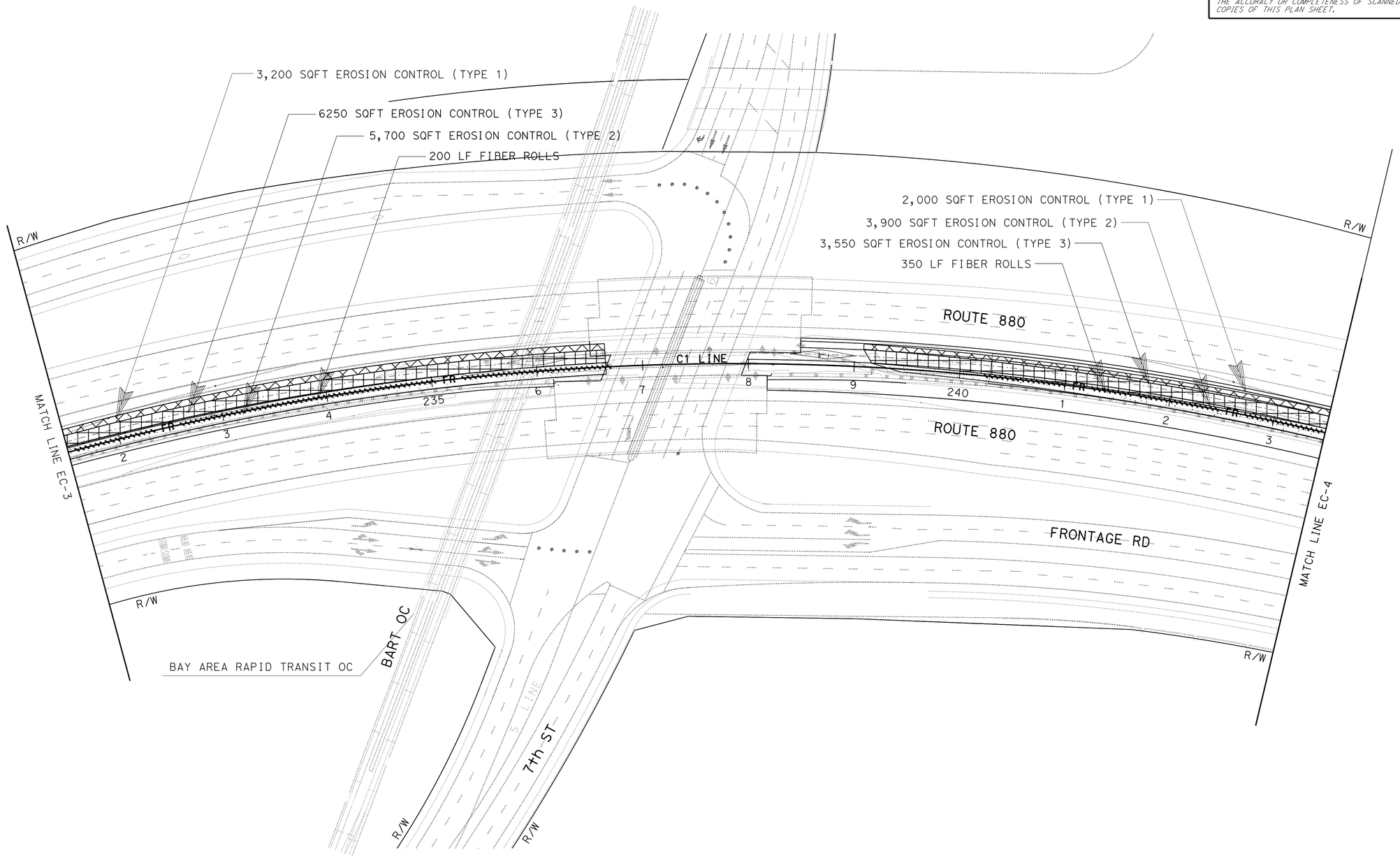

EROSION CONTROL

SCALE: 1" = 50'

APPROVED FOR EROSION CONTROL WORK ONLY

EC-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION 03-21-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	41	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4255
Signature
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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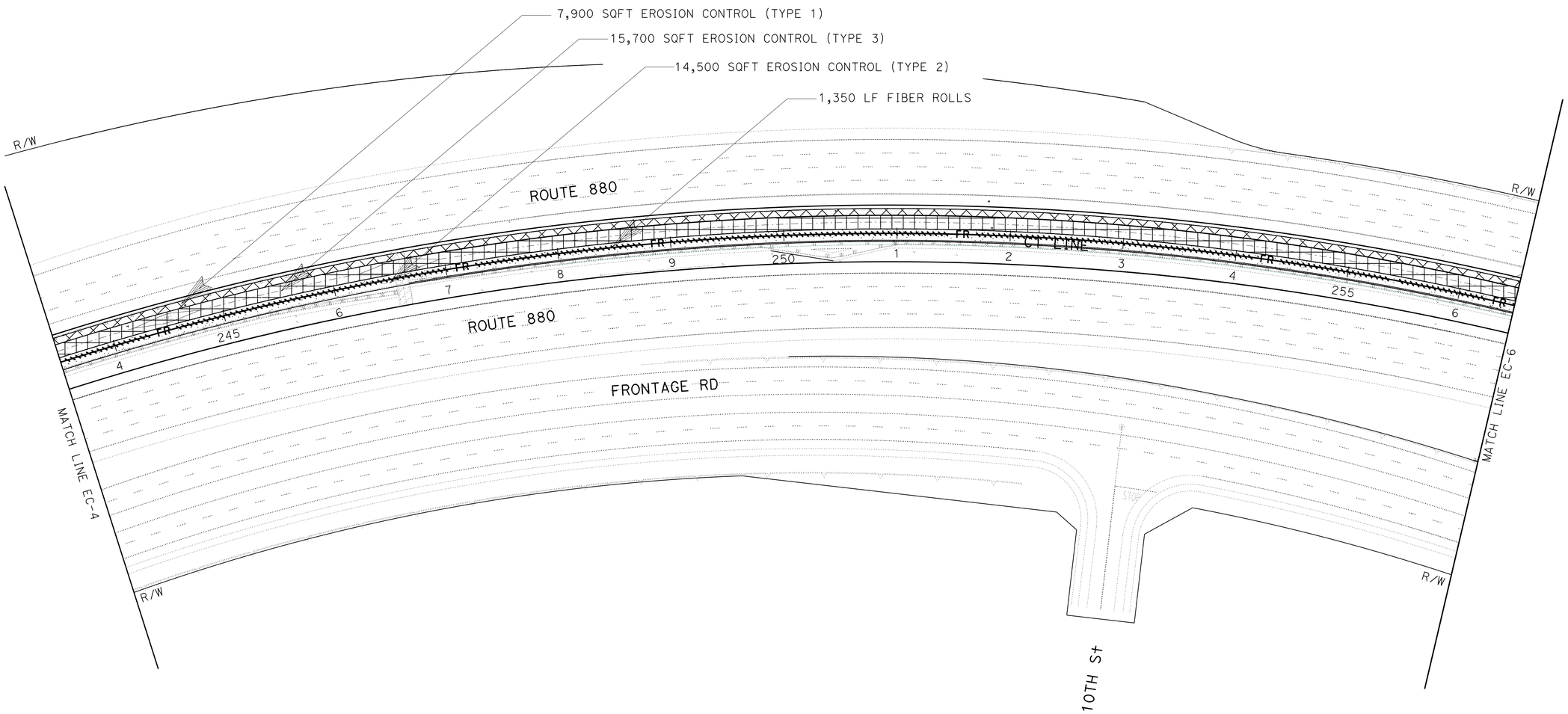

EROSION CONTROL

SCALE: 1" = 50'

APPROVED FOR EROSION CONTROL WORK ONLY

EC-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **WATER QUALITY**

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
DATE REVISED: 02-11-14

LAST REVISION: 03-21-14
DATE PLOTTED => 31-MAR-2014
TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	42	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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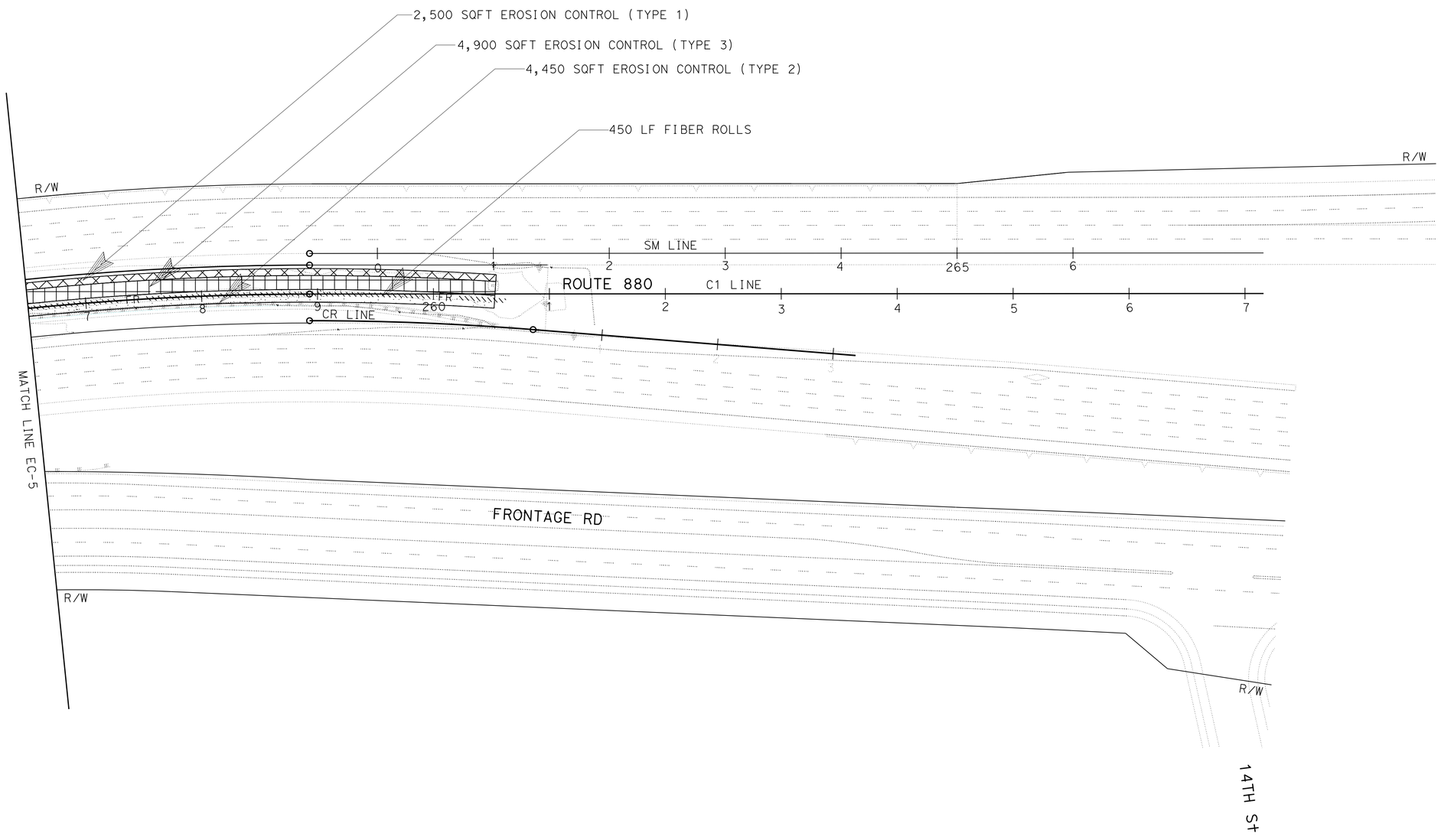
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL

SCALE: 1" = 50'

EC-6

REVISED BY	DATE REVISED
CP	02-11-14

CHRIS PADICK — ALEX MCDONALD

CALCULATED-DESIGNED BY — CHECKED BY

SENIOR LANDSCAPE ARCHITECT — DAVID YAM

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans® WATER QUALITY

LAST REVISION 03-21-14 | DATE PLOTTED => 31-MAR-2014 | TIME PLOTTED => 10:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	43	48

LICENSED LANDSCAPE ARCHITECT

3-24-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
CHRIS PADICK No. 4259
Signature
11-30-14
Renewal Date
3/17/14
Date
STATE OF CALIFORNIA

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EROSION CONTROL QUANTITIES

SHEET	LOCATION	HYDROSEED	HYDROMULCH	COMPOST	INCORPORATE MATERIAL	FIBER ROLL
		SQFT	SQFT	SQFT	SQFT	LF
EC-1	C1 LINE 203+00 - 209+50	11,150	11,150	18,950	18,950	650
EC-2	C1 LINE 209+50 - 220+50	18,800	18,800	32,100	32,100	1,200
EC-3	C1 LINE 220+50 - 231+50	18,800	18,800	32,100	32,100	1,200
EC-4	C1 LINE 231+50236+70/240+30 - 243+50	14,800	14,800	24,600	24,600	550
EC-5	C1 LINE 243+50 - 256+50	22,400	22,400	38,100	38,100	1,350
EC-6	C1 LINE 256+50 - 260+20	6,950	6,950	11,850	11,850	450
	TOTAL	92,900	92,900	157,700	157,700	5,400

EROSION CONTROL QUANTITIES

ECQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
WATER QUALITY

SENIOR LANDSCAPE ARCHITECT: DAVID YAM
CALCULATED-DESIGNED BY: CHRIS PADICK
CHECKED BY: ALEX MCDONALD
REVISED BY: CP
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M

Maint	MAINTENANCE
Max	MAXIMUM
MB	METAL BEAM
MBB	METAL BEAM BARRIER
MBGR	METAL BEAM GUARD RAILING
Med	MEDIAN
MGS	MIDWEST GUARDRAIL SYSTEM
MH	MANHOLE
Min	MINIMUM
Misc	MISCELLANEOUS
Misc I & S	MISCELLANEOUS IRON AND STEEL
Mkr	MARKER
Mod	MODIFIED,
	MODIFY
Mon	MONUMENT
MP	METAL PLATE
MPGR	METAL PLATE GUARD RAILING
MR	MOVEMENT RATING
MSE	MECHANICALLY STABILIZED EMBANKMENT
Mt	MOUNTAIN, MOUNT
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

N	NORTH
NB	NORTHBOUND
No.	NUMBER (MUST HAVE PERIOD)
Nos.	NUMBERS (MUST HAVE PERIOD)
NPS	NOMINAL PIPE SIZE
NS	NEAR SIDE
NSP	NEW STANDARD PLAN
NTS	NOT TO SCALE

O

Oblr	OBLITERATE
OC	OVERCROSSING
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OG	ORIGINAL GROUND
OGAC	OPEN GRADED ASPHALT CONCRETE
OGFC	OPEN GRADED FRICTION COURSE
OH	OVERHEAD
OHWM	ORDINARY HIGH WATER MARK
O-O	OUT TO OUT
Opp	OPPOSITE
OSD	OVERSIDE DRAIN

P

P	PAGE
PAP	PERFORATED ALUMINUM PIPE
PB	PULL BOX
PC	POINT OF CURVATURE,
	PRECAST
PCC	POINT OF COMPOUND CURVE,
	PORTLAND CEMENT CONCRETE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
PCP	PERFORATED CONCRETE PIPE,
	PRESTRESSED CONCRETE PIPE
PCVC	POINT OF COMPOUND VERTICAL CURVE
PEC	PERMIT TO ENTER AND CONSTRUCT
Ped	PEDESTRIAN
Ped OC	PEDESTRIAN OVERCROSSING
Ped UC	PEDESTRIAN UNDERCROSSING
Perm Mtl	PERMEABLE MATERIAL

P continued

PG	PROFILE GRADE
PI	POINT OF INTERSECTION
PJP	PARTIAL JOINT PENETRATION
Pkwy	PARKWAY
ℙ,PL	PLATE
P/L	PROPERTY LINE
PM	POST MILE,
	TIME FROM NOON TO MIDNIGHT
PN	PAVING NOTCH
POC	POINT OF HORIZONTAL CURVE
POT	POINT OF TANGENT
POVC	POINT OF VERTICAL CURVE
PP	PIPE PILE,
	PLASTIC PIPE,
	POWER POLE
PPL	PREFORMED PERMEABLE LINER
PPP	PERFORATED PLASTIC PIPE
PRC	POINT OF REVERSE CURVE
PRF	PAVEMENT REINFORCING FABRIC
PRVC	POINT OF REVERSE VERTICAL CURVE
PS&E	PLANS, SPECIFICATIONS AND ESTIMATES
PS, P/S	PRESTRESSED
PSP	PERFORATED STEEL PIPE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Qty	QUANTITY

R

R	RADIUS
R & D	REMOVE AND DISPOSE
R & S	REMOVE AND SALVAGE
R/C	RATE OF CHANGE
RCA	REINFORCED CONCRETE ARCH
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
Rd	ROAD
Reinf	REINFORCED,
	REINFORCEMENT,
	REINFORCING
Rel	RELOCATE
Repl	REPLACEMENT
Ret	RETAINING
Rev	REVISED, REVISION
Rdwy	ROADWAY
RHMA	RUBBERIZED HOT MIX ASPHALT
Riv	RIVER
RM	ROAD-MIXED
RP	RADIUS POINT,
	REFERENCE POINT
RR	RAILROAD
RSP	ROCK SLOPE PROTECTION,
	REVISED STANDARD PLAN
Rt	RIGHT
Rte	ROUTE
RW	REDWOOD,
	RETAINING WALL
R/W	RIGHT OF WAY
Rwy	RAILWAY

S

S	SOUTH,
	SUPPLEMENT
SAE	STRUCTURE APPROACH EMBANKMENT
Salv	SALVAGE
SAPP	STRUCTURAL ALUMINUM PLATE PIPE
SB	SOUTHBOUND
SC	SAND CUSHION
SCSP	SLOTTED CORRUGATED STEEL PIPE
SD	STORM DRAIN
Sec	SECOND,
	SECTION
Sep	SEPARATION
SG	SUBGRADE
Shld	SHOULDER
Sht	SHEET
Sim	SIMILAR
℄	STATION LINE
SM	SELECTED MATERIAL
Spec	SPECIAL,
	SPECIFICATIONS
SPP	SLOTTED PLASTIC PIPE
SS	SLOPE STAKE
SSBM	STRAP AND SADDLE BRACKET METHOD
SSD	STRUCTURAL SECTION DRAIN
SSPA	STRUCTURAL STEEL PLATE ARCH
SSPP	STRUCTURAL STEEL PLATE PIPE
SSPPA	STRUCTURAL STEEL PLATE PIPE ARCH
SSRP	STEEL SPIRAL RIB PIPE
St	STREET
Sta	STATION
STBB	SINGLE THRIE BEAM BARRIER
Std	STANDARD
Str	STRUCTURE
Surf	SURFACING
SW	SIDEWALK,
	SOUND WALL
Swr	SEWER
Sym	SYMMETRICAL
S4S	SURFACE 4 SIDES

T

T	SEMI-TANGENT
Tan	TANGENT
TBB	THRIE BEAM BARRIER
Tbr	TIMBER
TC	TOP OF CURB
TCB	TRAFFIC CONTROL BOX
TCE	TEMPORARY CONSTRUCTION EASEMENT
Tel	TELEPHONE
Temp	TEMPORARY
TG	TOP OF GRADE
Tot	TOTAL
TP	TELEPHONE POLE
TPB	TREATED PERMEABLE BASE
TPM	TREATED PERMEABLE MATERIAL
Trans	TRANSITION

T continued

TS	TRANSVERSE,
	TRAFFIC SIGNAL,
	TUBULAR STEEL
Typ	TYPICAL

U

UC	UNDERCROSSING
UD	UNDERDRAIN
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UP	UNDERPASS

V

V	VALVE,
	DESIGN SPEED
Var	VARIABLE,
	VARIES
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
Vert	VERTICAL
Via	VIADUCT
Vol	VOLUME

W

W	WEST,
	WIDTH
WB	WESTBOUND
WH	WEEP HOLE
WM	WIRE MESH
WS	WATER SURFACE
WSP	WELDED STEEL PIPE
Wt	WEIGHT
WV	WATER VALVE
WW	WINGWALL
WWLOL	WINGWALL LAYOUT LINE

X

X Sec	CROSS SECTION
Xing	CROSSING

Y

Yr	YEAR
Yrs	YEARS

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	44	48

Grace M. Tsushima
REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Grace M. Tsushima No. C49814 Exp. 9-30-14 CIVIL STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 3-24-14

UNIT OF MEASUREMENT SYMBOLS:

Some of the symbols used in the project plan quantity tables and in the Bid Item List are:

TABLE A

SYMBOL USED	DEFINITIONS
ACRE	ACRE
CF	CUBIC FOOT
CY	CUBIC YARD
EA	EACH
GAL	GALLON
LB	POUND
LF	LINEAR FOOT
SQFT	SQUARE FOOT
SQYD	SQUARE YARD
STA	100 FEET
TAB	TABLET
TON	2,000 POUNDS

Some of the symbols used in the plans other than in the project plan quantity tables are:

TABLE B

SYMBOL USED	DEFINITIONS
ksi	KIPS PER SQUARE INCH
ksf	KIPS PER SQUARE FOOT
psi	POUNDS PER SQUARE INCH
psf	POUNDS PER SQUARE FOOT
lb/ft^3, pcf	POUNDS PER CUBIC FOOT
tsf	TONS PER SQUARE FOOT
mph, MPH *	MILES PER HOUR
ø	NOMINAL DIAMETER
oz	OUNCE
lb	POUND
kip	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ABBREVIATIONS (SHEET 2 OF 2)

NO SCALE

RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A10B

2010 REVISED STANDARD PLAN RSP A10B

6-7-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	45	48

REGISTERED CIVIL ENGINEER

July 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Michael Janzen
No. 44788
Exp. 03-31-14
CIVIL
STATE OF CALIFORNIA

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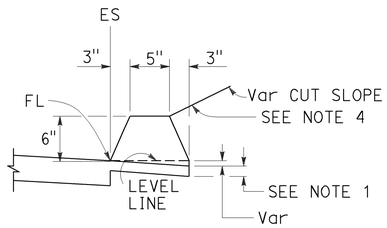
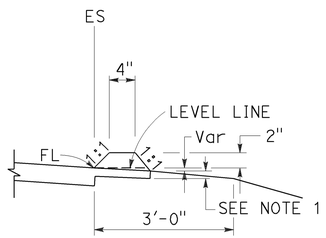
TO ACCOMPANY PLANS DATED 3-24-14



TYPE A
See Note 3



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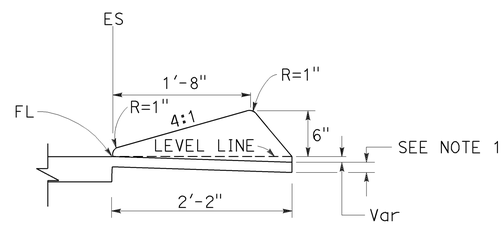

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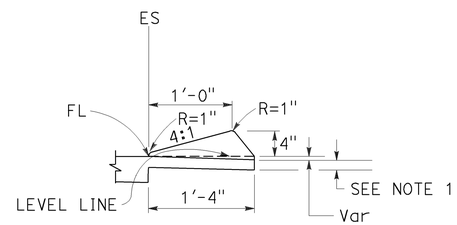
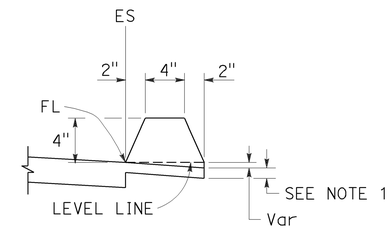
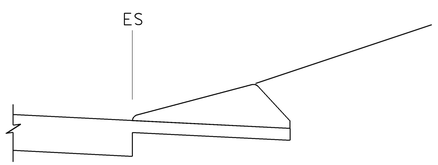


TYPE E

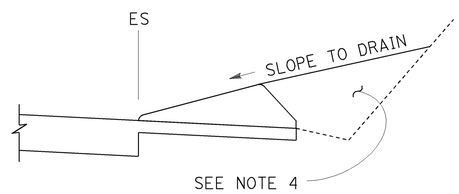


TYPE F
See Note 5

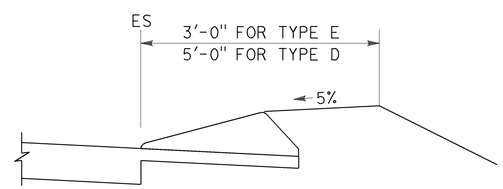
DIKES



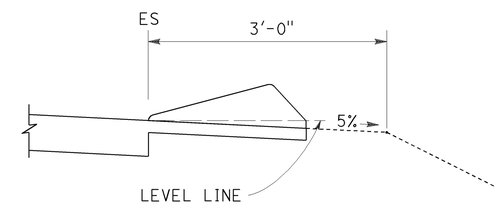
CASE C-1
Cut Slope



CASE C-2
Cut Slope



CASE F



CASE R
See Note 2

TYPE D AND E BACKFILL DETAILS

NOTES:

1. For HMA shoulders only, extend top layer of HMA placed on the shoulder under dike with no joint at the ES. For projects with OGFC shoulders, do not extend OGFC under dike. See project plans for modified dike detail.
2. Case R applies to retrofit only projects where restrictive conditions do not provide enough width for Case F backfill.
3. Type A dike only to be used where restrictive slope conditions do not provide enough width to use Type D or Type E dike.
4. Fill and compact with excavated material to top of dike.
5. Use Type F dike, where dike is required with guard railing installations. See Revised Standard Plan RSP A77N4 for dike positioning details.

DIKE QUANTITIES

TYPE	CUBIC YARDS PER LINEAR FOOT
A	0.0135
C	0.0038
D	0.0293
E	0.0130
F	0.0066

Quantities based on 5% cross slope.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

HOT MIX ASPHALT DIKES

NO SCALE

RSP A87B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A87B DATED MAY 20, 2011 - PAGE 120 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A87B

2010 REVISED STANDARD PLAN RSP A87B

6-27-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	46	48

LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

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.

LICENSED LANDSCAPE ARCHITECT — Gregory A. Balzer — 2576 — 02-28-15 Renewal Date — 7-19-13 Date — STATE OF CALIFORNIA

TO ACCOMPANY PLANS DATED 3-24-14

A

AB	AGGREGATE BASE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE
AC	ASPHALT CONCRETE
ACC	ARMOR-CLAD CONDUCTORS
Adj	ADJACENT/ADJUSTABLE
AIC	AUXILIARY IRRIGATION CONTROLLER
Alt	ALTERNATIVE
AMEND	AMENDMENT
ARV	AIR RELEASE VALVE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVB	ATMOSPHERIC VACUUM BREAKER

B

B&B	BALLED AND BURLAPPED
B/B	BRASS/BRONZE
B/B/PL	BRASS/BRONZE/PLASTIC
B/PL	BRASS/PLASTIC
BFM	BONDED FIBER MATRIX
Bit Ctd	BITUMINOUS COATED
BP	BOOSTER PUMP
BPA	BACKFLOW PREVENTER ASSEMBLY
BPE	BACKFLOW PREVENTER ENCLOSURE
BV	BALL VALVE

C

C	CONDUIT
CAP	CORRUGATED ALUMINUM PIPE
CARV	COMBINATION AIR RELEASE VALVE
CB	COUPLING BAND
CCA	CAM COUPLER ASSEMBLY
CEC	CONTROLLER ENCLOSURE CABINET
CHDPE	CORRUGATED HIGH DENSITY POLYETHYLENE
CL	CHAIN LINK
CNC	CONTROL AND NEUTRAL CONDUCTORS
Conc	CONCRETE
CP	COPPER PIPE
CS	COMPOST SOCK
CSP	CORRUGATED STEEL PIPE
CST	CENTER STRIP
CV	CHECK VALVE

D

Dia	DIAMETER
DIP	DUCTILE IRON PIPE
DIT	DRIP IRRIGATION TUBING
DG	DECOMPOSED GRANITE
DN	DIAMETER NOMINAL
DVA	DRIP VALVE ASSEMBLY

E

EC	EROSION CONTROL
ECTC	EROSION CONTROL TECHNOLOGY COUNCIL
Elect	ELECTRIC/ELECTRICAL
Elev	ELEVATION
ELL	ELBOW
ENCL	ENCLOSURE
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
EST	END STRIP
ESTB	ESTABLISHMENT
ETW	EDGE OF TRAVELED WAY

F

F	FULL CIRCLE
F/P	FULL/PART CIRCLE
FCV	FLOW CONTROL VALVE
FERT	FERTILIZER
FG	FINISHED GRADE
FH	FLEXIBLE HOSE
FIPT	FEMALE IRON PIPE THREAD
FIS	FERTILIZER INJECTOR SYSTEM
FL	FLOW LINE
FR	FIBER ROLL
FS	FLOW SENSOR
FSC	FLOW SENSOR CABLE
FV	FLUSH VALVE

G

Galv	GALVANIZED
GARV	GARDEN VALVE
GARVA	GARDEN VALVE ASSEMBLY
GM	GRAVEL MULCH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE

H

H	HALF CIRCLE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSEPOWER/HINGE POINT
HPL	HIGH PRESSURE LINE
Hwy	HIGHWAY

I

IC	IRRIGATION CONTROLLER
ICC	IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET
ID	INSIDE DIAMETER
IFS	IRRIGATION FILTRATION SYSTEM
IPS	IRON PIPE SIZE
IPT	IRON PIPE THREAD
Irr	IRRIGATION

L

L	LENGTH

M

Max	MAXIMUM
MBGR	METAL BEAM GUARD RAILING
MCV	MANUAL CONTROL VALVE
MIC	MASTER IRRIGATION CONTROLLER
Min	MINIMUM
MIPT	MALE IRON PIPE THREAD
Misc	MISCELLANEOUS
Mtl	MATERIAL
MVP	MAINTENANCE VEHICLE PULLOUT

N

NCN	NO COMMON NAME
NL	NOZZLE LINE
No.	NUMBER
NPT	NATIONAL PIPE THREAD

O

O/C	ON CENTER
OD	OUTSIDE DIAMETER
OL	OVERLAP

P

P	PART CIRCLE
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PE	POLYETHYLENE
Pkt	PACKET
PL	PLASTIC
PLS	PURE LIVE SEED
PLT	PLANT/PLANTING
PLT ESTB	PLANT ESTABLISHMENT
PM	POST MILE
PR	PRESSURE RATED
PRLV	PRESSURE RELIEF VALVE
PRV	PRESSURE REGULATING VALVE
PVC	POLYVINYL CHLORIDE
Pvmt	PAVEMENT

Q

Q	QUARTER CIRCLE
QCV	QUICK COUPLING VALVE

R

R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RCV	REMOTE CONTROL VALVE
RCVM	REMOTE CONTROL VALVE (MASTER)
RCVMF	REMOTE CONTROL VALVE (MASTER) W/FLOW SENSOR
RCVP	REMOTE CONTROL VALVE W/PRESSURE REGULATOR
RCW	RECYCLED WATER
RECP	ROLLED EROSION CONTROL PRODUCT
REQ	REQUIRED
RICS	REMOTE IRRIGATION CONTROL SYSTEM
R/W	RIGHT OF WAY

S

S	SLIP
SCH	SCHEDULE
SF	STATE-FURNISHED
Shld	SHOULDER
Sq	SQUARE
SST	SIDE STRIP
Sta	STATION
Std	STANDARD
SW	SIDEWALK/SOUND WALL

T

T	THIRD CIRCLE/THREAD
TLS	TRUCK LOADING STANDPIPE
TQ	THREE QUARTER CIRCLE
TRM	TURF REINFORCEMENT MAT
TT	TWO-THIRDS CIRCLE
TWSA	TREE WELL SPRINKLER ASSEMBLY
Typ	TYPICAL

U

UG	UNDERGROUND

W

W	WIDTH
W/	WITH
WM	WATER METER
WS	WYE STRAINER
WSA	WYE STRAINER ASSEMBLY
WSP	WELDED STEEL PIPE
WWM	WELDED WIRE MESH

NOTE:
For additional abbreviations, see Standard Plans A10A and A10B.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE AND EROSION CONTROL ABBREVIATIONS

NO SCALE

RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

2010 REVISED STANDARD PLAN RSP H1

6-28-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	Ala	880	R32.8/R34.0	47	48

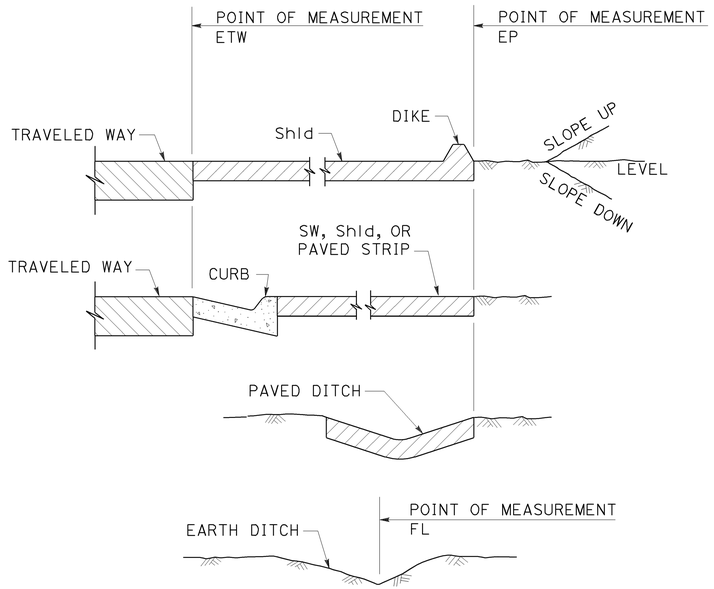
Gregory A. Balzer
LICENSED LANDSCAPE ARCHITECT

July 19, 2013
PLANS APPROVAL DATE

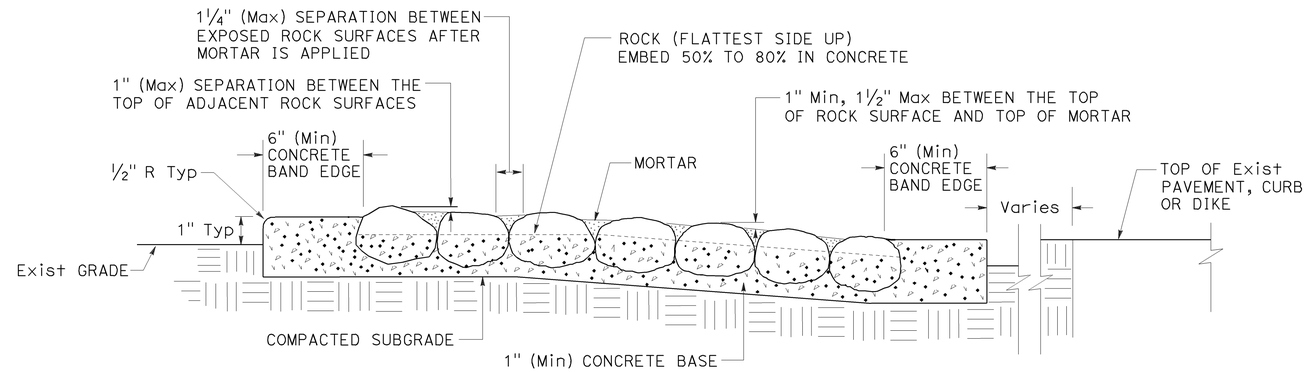
LICENSED LANDSCAPE ARCHITECT
Gregory A. Balzer 2576
Expiration Date 2-28-15
Renewal Date 7-19-13
Date
STATE OF CALIFORNIA

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.

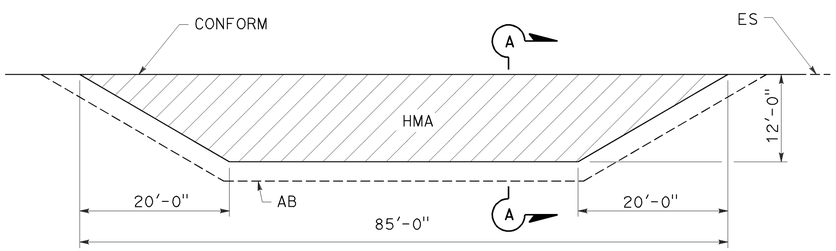
TO ACCOMPANY PLANS DATED 3-24-14



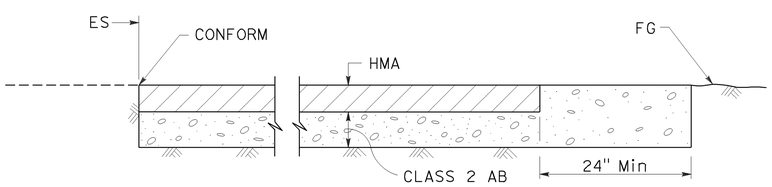
SECTION
POINTS OF MEASUREMENT



SECTION
ROCK BLANKET



PLAN



SECTION A-A
MAINTENANCE VEHICLE PULLOUT

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9A

2010 REVISED STANDARD PLAN RSP H9A

6-21-13

TO ACCOMPANY PLANS DATED 3-24-14

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

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.

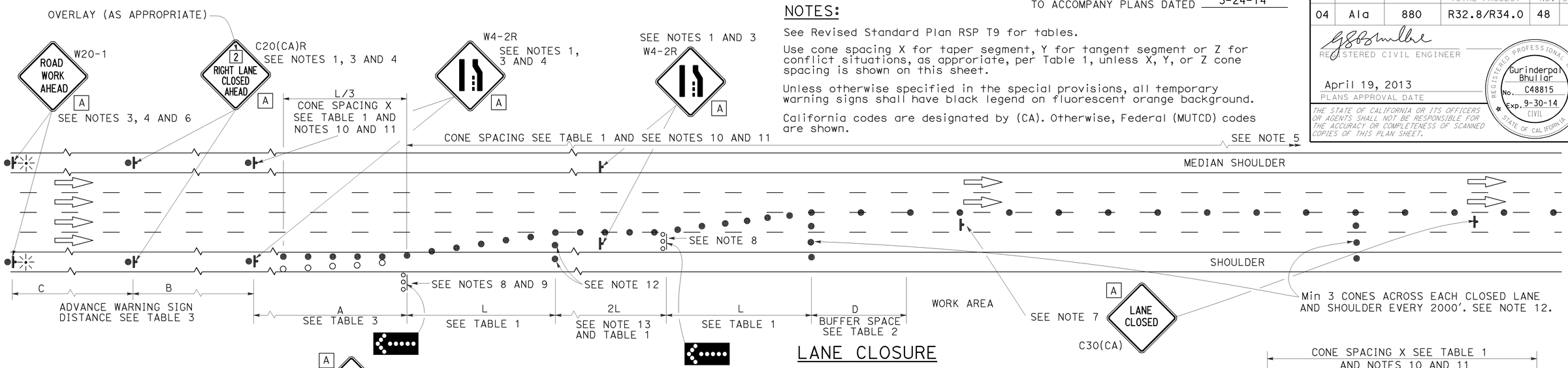
NOTES:

See Revised Standard Plan RSP T9 for tables.

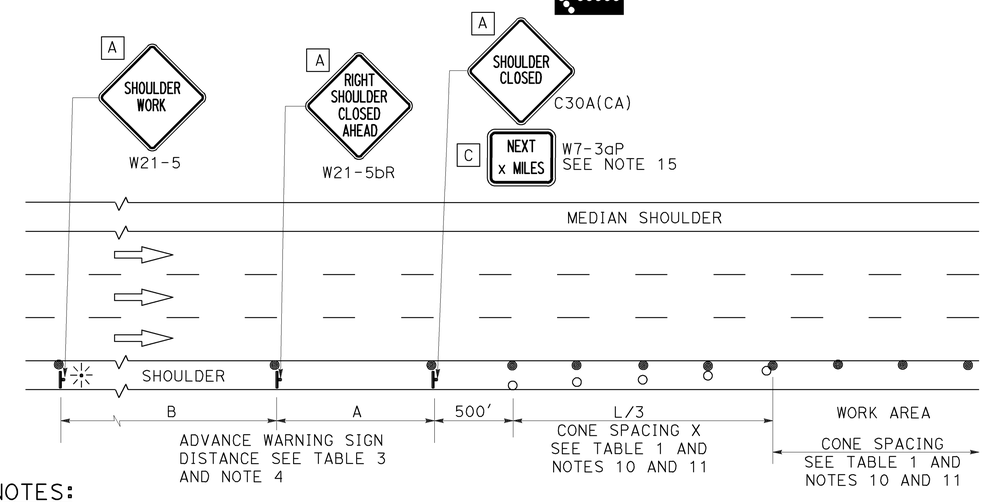
Use cone spacing X for taper segment, Y for tangent segment or Z for conflict situations, as approriate, per Table 1, unless X, Y, or Z cone spacing is shown on this sheet.

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

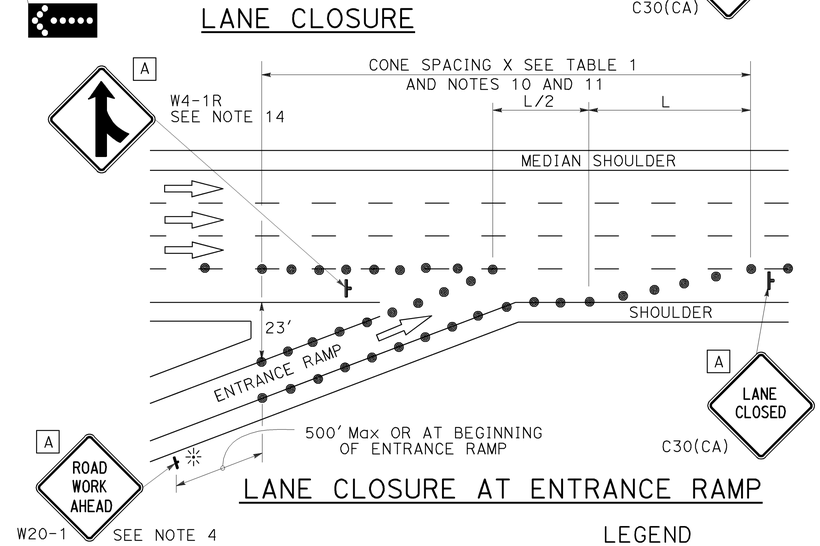
California codes are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.



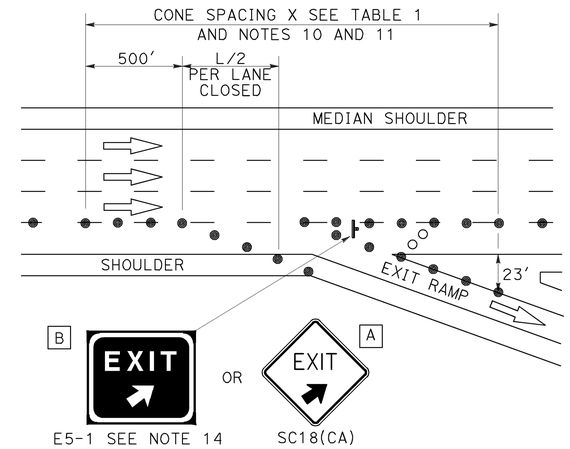
LANE CLOSURE



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