Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	1	27

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-15	DRAINAGE PROFILES
16-18	DRAINAGE DETAILS
19-21	DRAINAGE QUANTITIES
22	EROSION CONTROL DETAILS
23-27	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

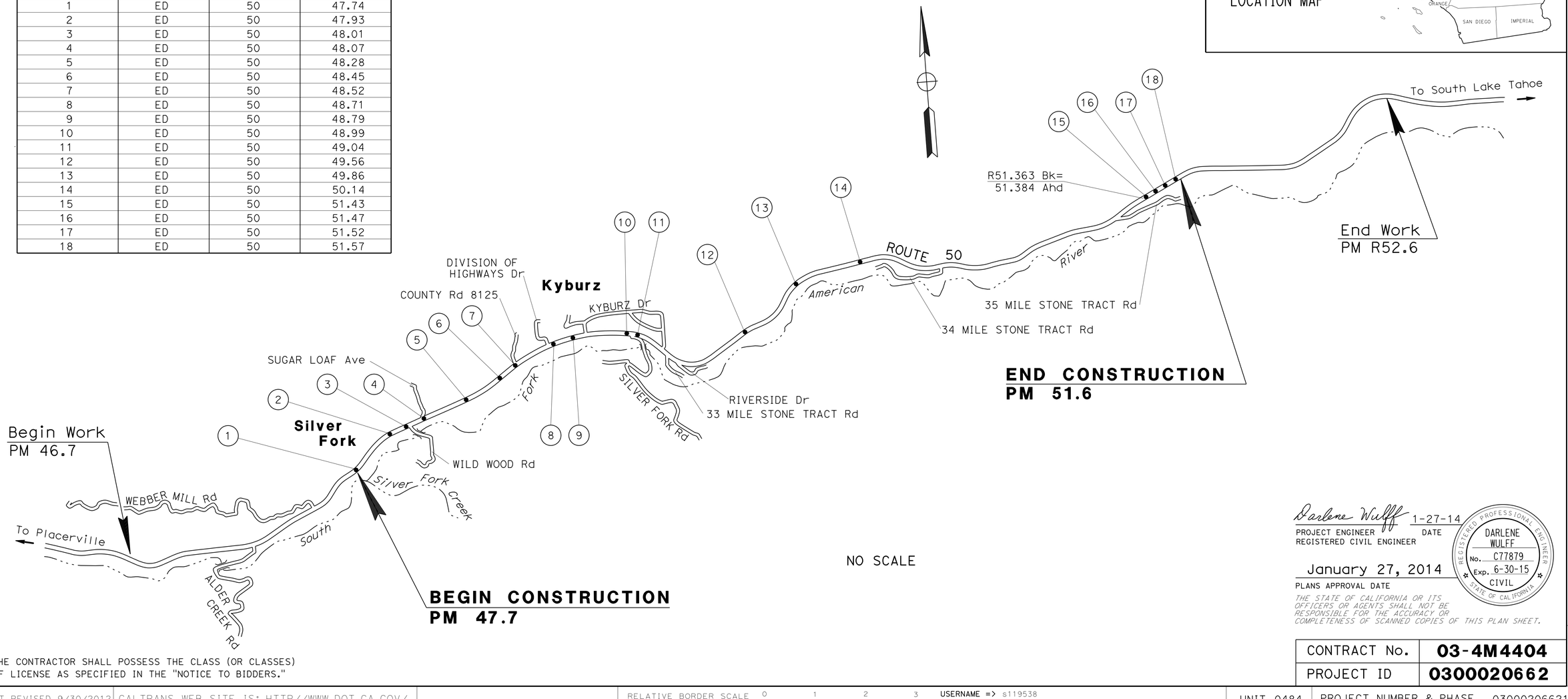
IN EL DORADO COUNTY
AT AND NEAR SILVER FORK AND KYBURZ
AT VARIOUS LOCATIONS
FROM 0.3 MILE EAST OF WEBBER MILL ROAD
TO 0.3 MILE EAST OF 35 MILE STONE TRACT ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010

LOCATION MAP

LOCATIONS OF CONSTRUCTION

Loc No. (X)	COUNTY	ROUTE	POST MILE
1	ED	50	47.74
2	ED	50	47.93
3	ED	50	48.01
4	ED	50	48.07
5	ED	50	48.28
6	ED	50	48.45
7	ED	50	48.52
8	ED	50	48.71
9	ED	50	48.79
10	ED	50	48.99
11	ED	50	49.04
12	ED	50	49.56
13	ED	50	49.86
14	ED	50	50.14
15	ED	50	51.43
16	ED	50	51.47
17	ED	50	51.52
18	ED	50	51.57



NO SCALE

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

PROJECT MANAGER: RONALD S. SYKES

DESIGN ENGINEER: RONALD S. SYKES

Darlene Wulff 1-27-14
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — DARLENE WULFF — No. C77879 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA

January 27, 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.

CONTRACT No.	03-4M4404
PROJECT ID	0300020662

LAST REVISION 01-30-13
DATE PLOTTED => 03-FEB-2014
TIME PLOTTED => 11:13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	2	27

REGISTERED CIVIL ENGINEER — DATE: 1-27-14

PLANS APPROVAL DATE: 1-27-14

REGISTERED PROFESSIONAL ENGINEER — DARLENE WULFF — No. C77879 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA

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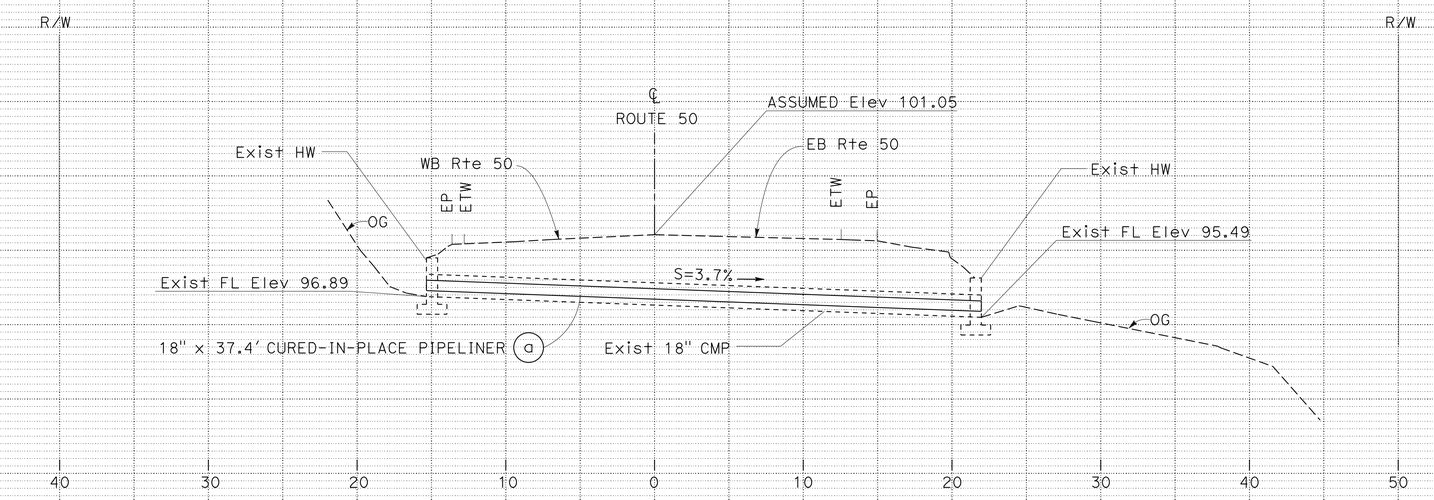
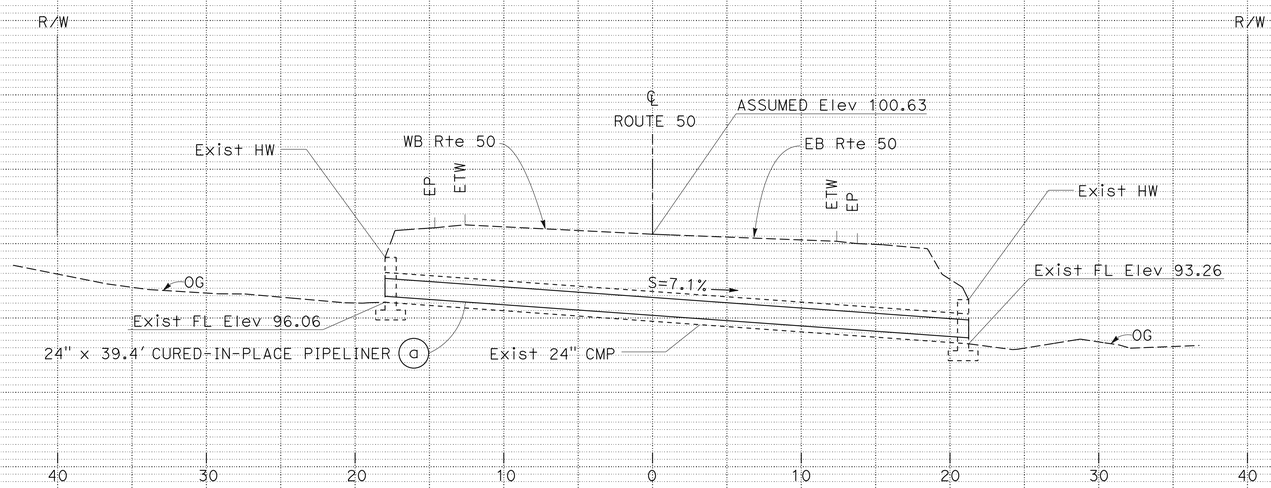
ABBREVIATIONS:

LFS - LEFT FORWARD SKEW
LL - LANE LINE
RFS - RIGHT FORWARD SKEW



DRAINAGE SYSTEM No. 1

PM 47.74
SKEW: LFS 15°20'56"



DRAINAGE SYSTEM No. 2

PM 47.93
SKEW: LFS 9°10'12"

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: DARLENE WULFF
CHECKED BY: RONALD S. SYKES
REVISED BY
DATE REVISED

LAST REVISION — DATE PLOTTED => 28-JAN-2014 — TIME PLOTTED => 08:28
00-00-00

BORDER LAST REVISED 7/2/2010 | DGN FILE => 03000206621b001.dgn | IS IN INCHES | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	3	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DARLENE WULFF — No. C77879 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA

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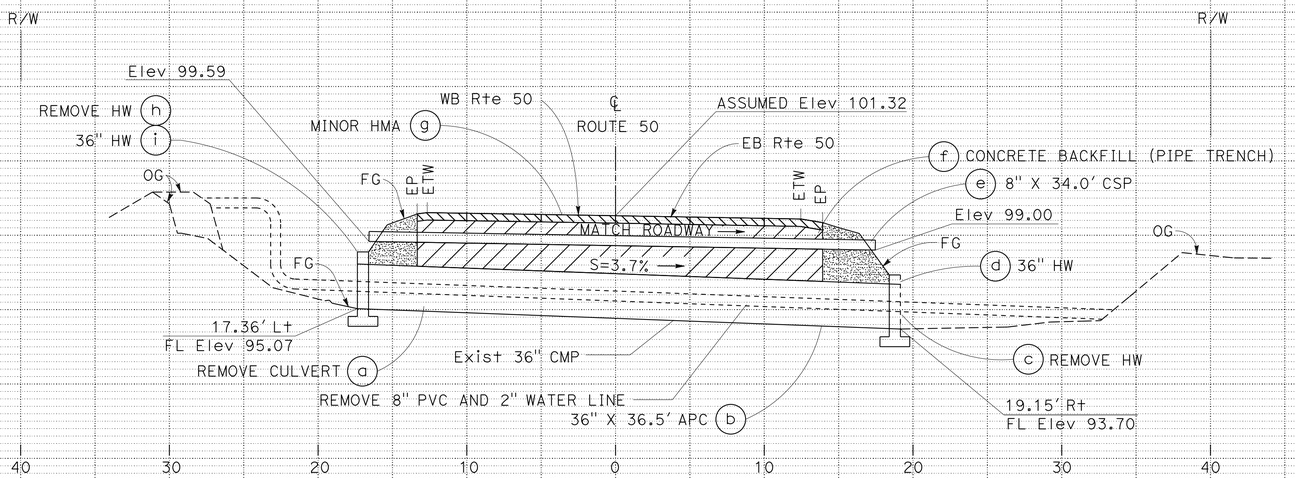
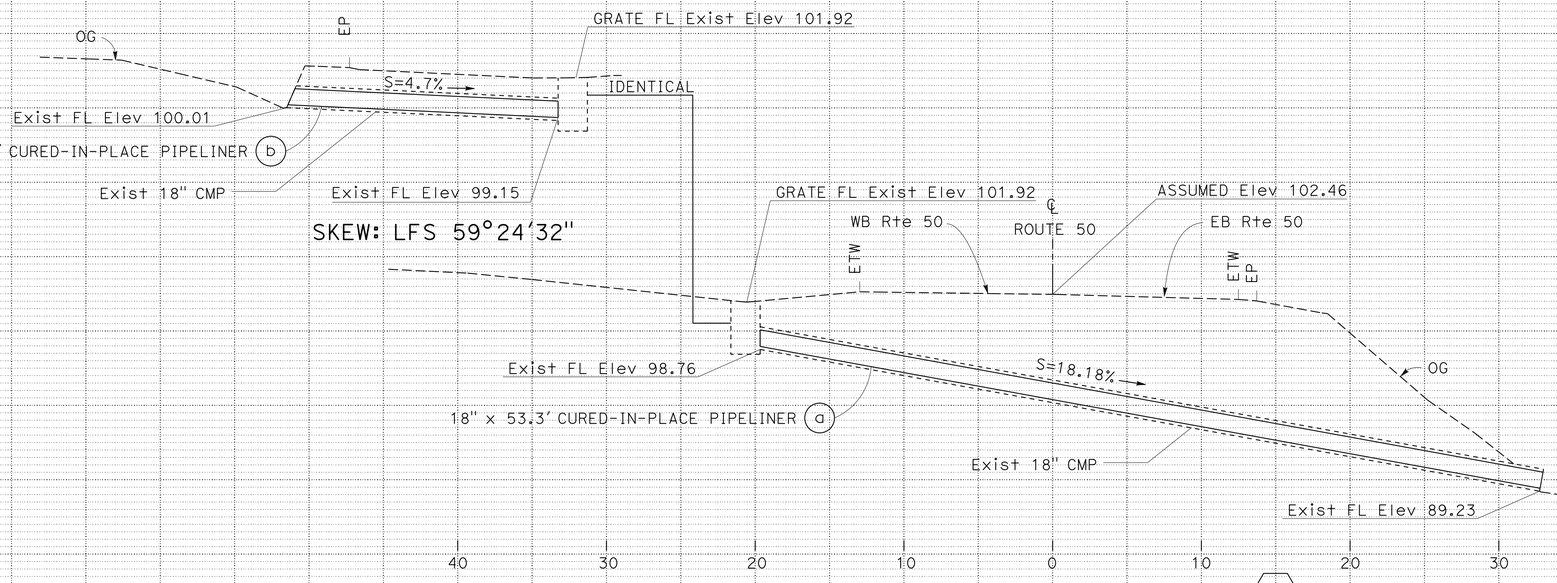


DRAINAGE SYSTEM No. (3)

PM 48.01

SKEW: LFS 11°56'27"



DRAINAGE SYSTEM No. (4)

PM 48.07

SKEW: LFS 12°53'35"

LEGEND

- MINOR HMA
- SLURRY CEMENT
- NATIVE MATERIAL

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-2

REVISED BY | DATE REVISED

DARLENE WULFF | RONALD S. SYKES

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 28-JAN-2014
00-00-00 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | DGN FILE => 0300020662ib002.dgn | IS IN INCHES | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	4	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DARLENE WULFF — No. C77879 — Exp. 6-30-15 — 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.

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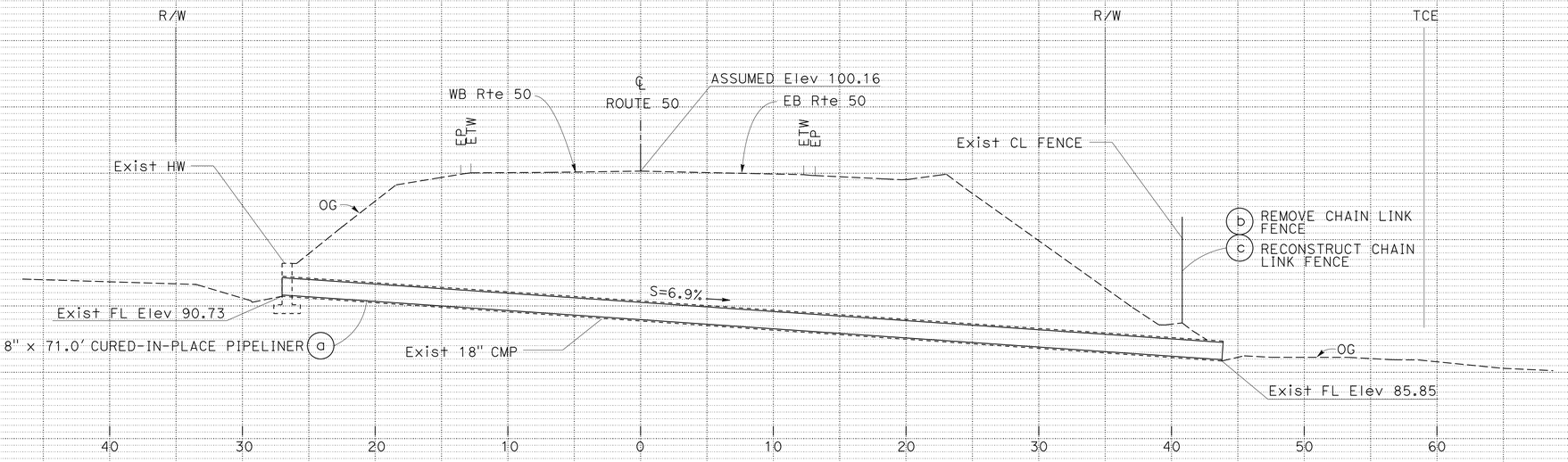
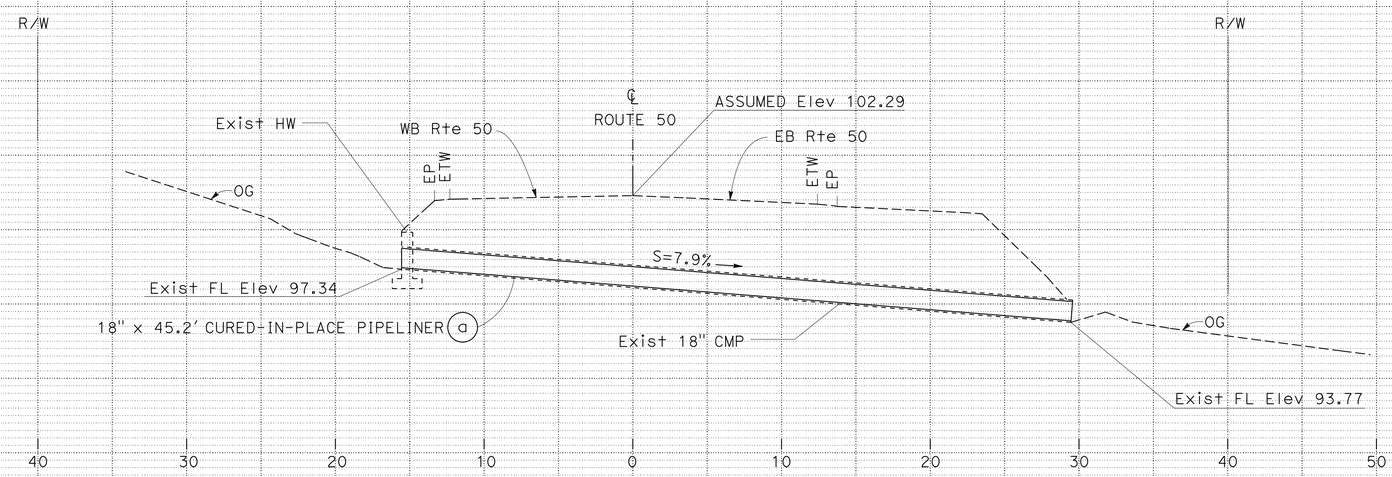


DRAINAGE SYSTEM No. 5

PM 48.28

SKEW: LFS 12°25'44"



DRAINAGE SYSTEM No. 6

PM 48.45

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-3

REVISED BY | DATE REVISED

DARLENE WULFF | RONALD S. SYKES

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 28-JAN-2014 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | DGN FILE => 0300020662ib003.dgn | IS IN INCHES | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	5	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DARLENE WULFF
No. C77879
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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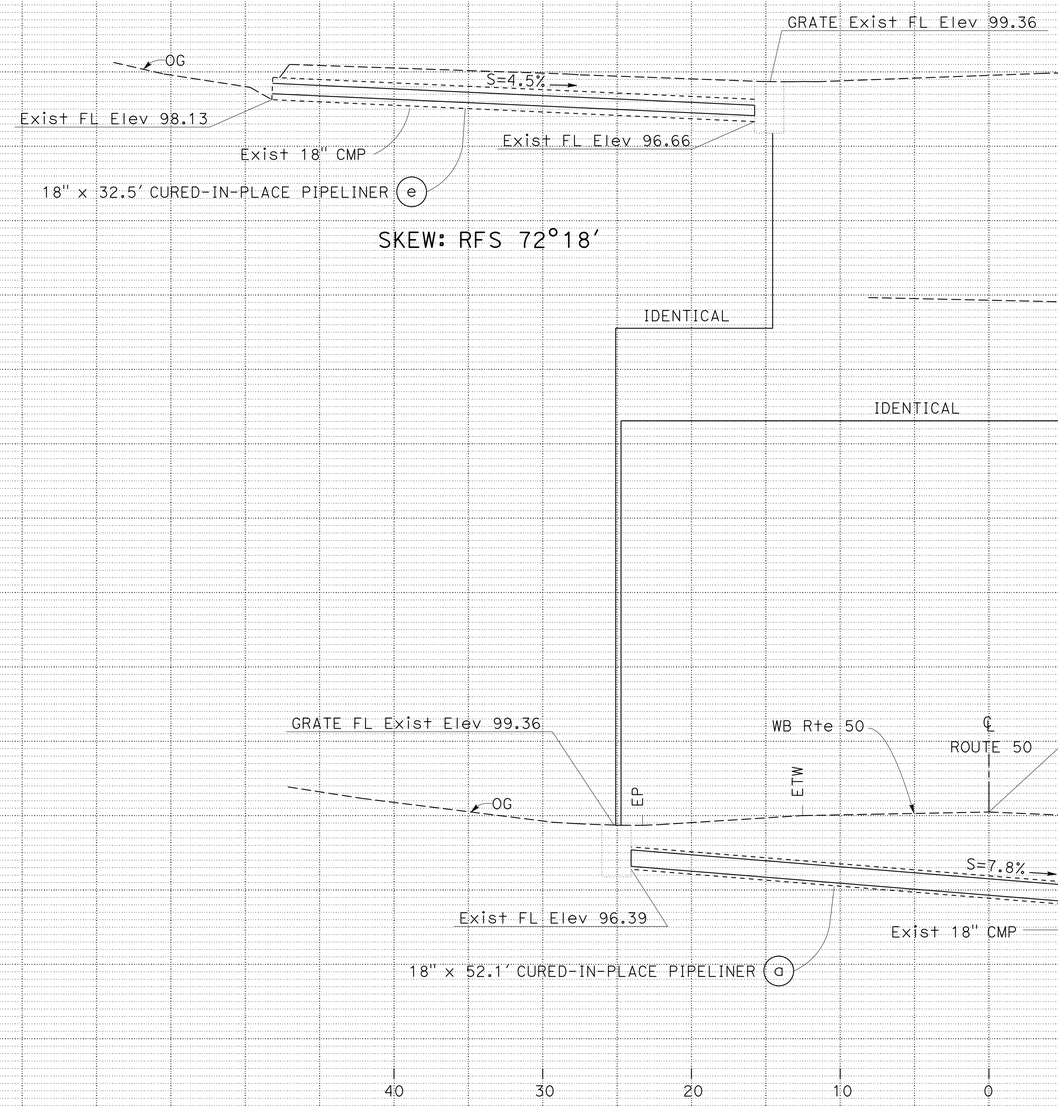

DRAINAGE SYSTEM No. 7

PM 48.52
SKEW: RFS 8°21'22"

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: DARLENE WULFF
CHECKED BY: RONALD S. SYKES
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 28-JAN-2014
00-00-00 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | DGN FILE => 03000206621b004.dgn | IS IN INCHES | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	6	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DARLENE WULFF — No. C77879 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA

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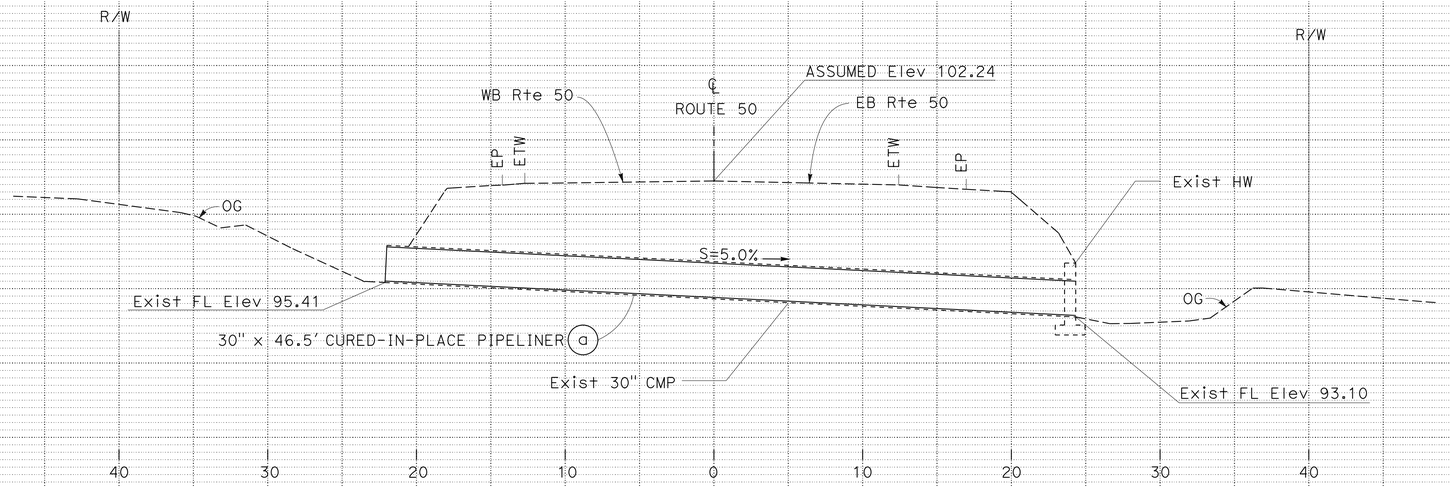
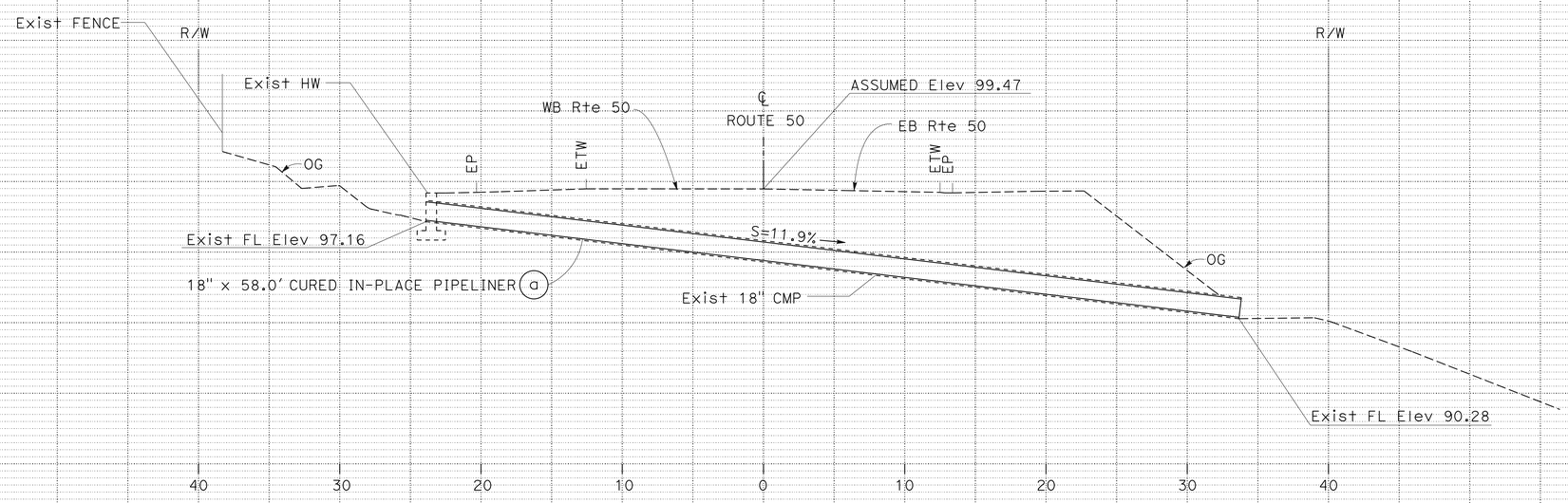


DRAINAGE SYSTEM No. 8

PM 48.71
SKEW: LFS 11°7'30"



DRAINAGE SYSTEM No. 9

PM 48.79

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: DARLENE WULFF
CHECKED BY: RONALD S. SYKES
REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 28-JAN-2014
00-00-00 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | DGN FILE => 03000206621ib005.dgn | IS IN INCHES | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	7	27

Darju D. Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp. 09-30-15
CIVIL
STATE OF CALIFORNIA

1-27-14
PLANS APPROVAL DATE

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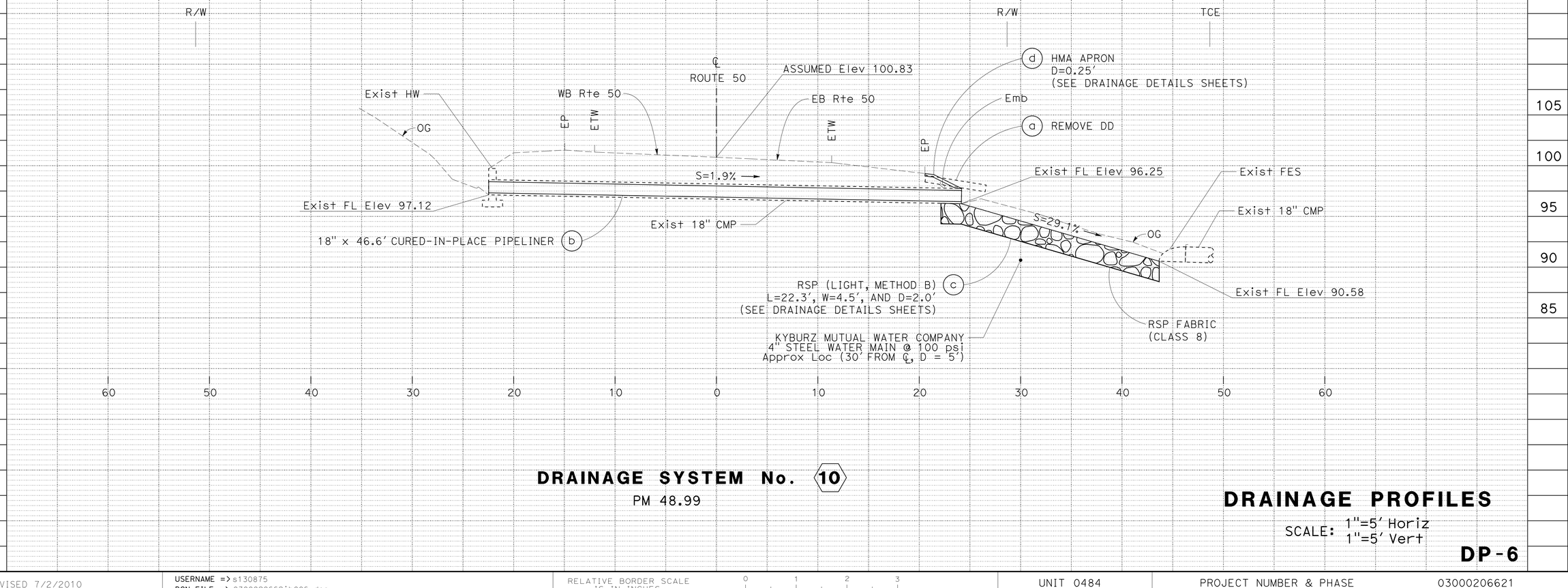

DRAINAGE SYSTEM No. 10

PM 48.99

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-6

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: DARLENE WULFF

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 28-JAN-2014 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020662ib006.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	8	27

Darju D. Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

SARJU D. PATEL No. C 65611 Exp. 09-30-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

1-27-14
PLANS APPROVAL DATE

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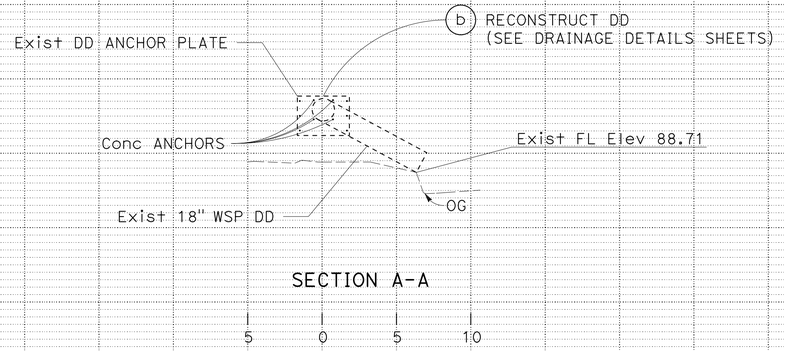
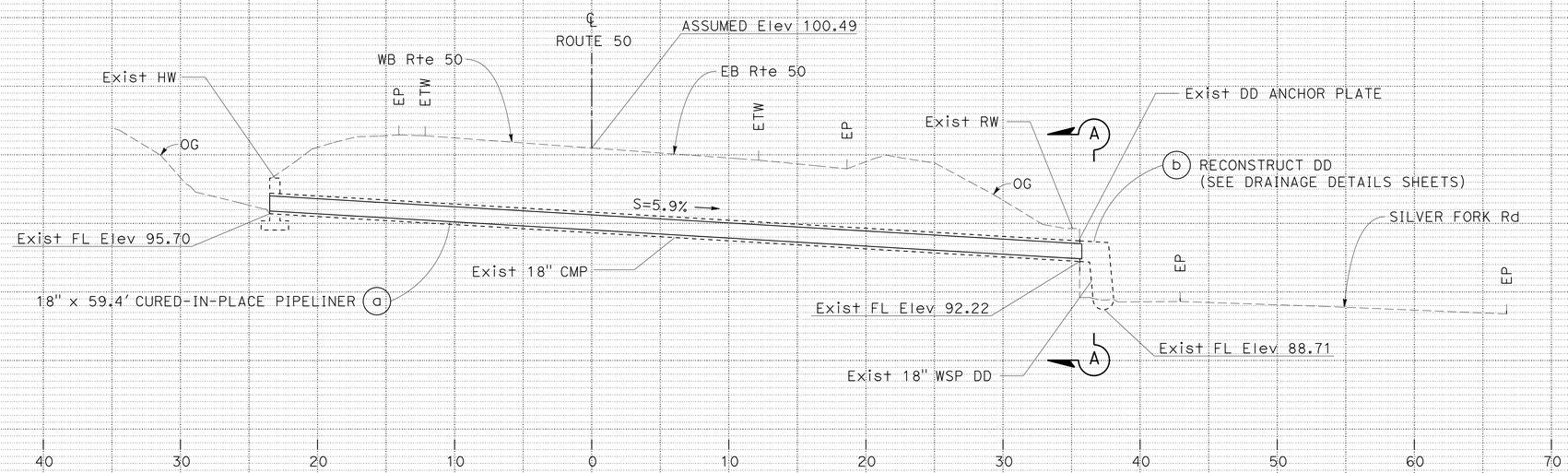


SECTION A-A

5 0 5 10



DRAINAGE SYSTEM No. 11

PM 49.04

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-7

REVISED BY | DATE REVISED

SARJU D. PATEL | DARLENE WULFF

CALCULATED-DESIGNED BY | CHECKED BY

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION | DATE PLOTTED => 28-JAN-2014
00-00-00 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020662ib007.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	9	27

Darju D. Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp. 09-30-15
CIVIL
STATE OF CALIFORNIA

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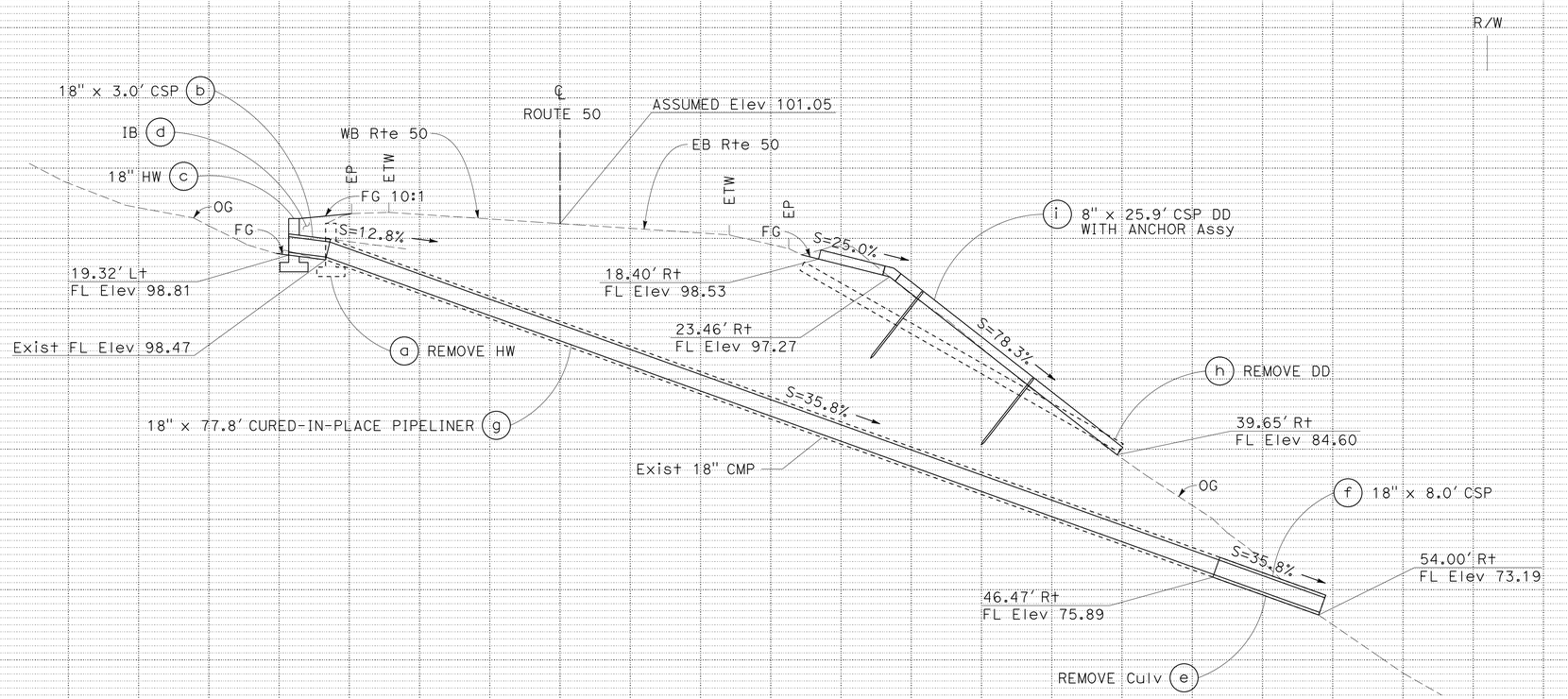

DRAINAGE SYSTEM No. (12)

PM 49.56

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: DARLENE WULFF
REVISED BY / DATE REVISED:

LAST REVISION 00-00-00
DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020662ib008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	10	27

Darju D. Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp 09-30-15
CIVIL
STATE OF CALIFORNIA

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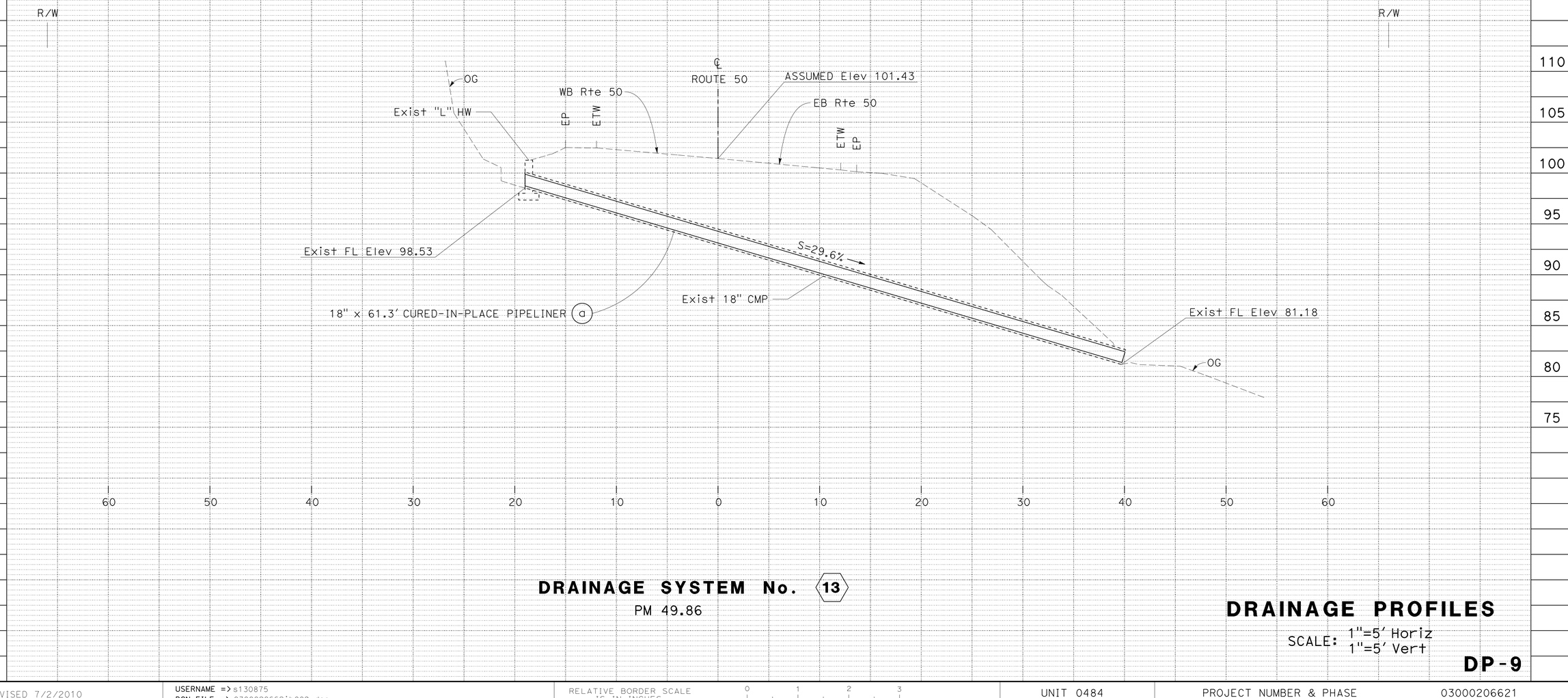

DRAINAGE SYSTEM No. 13

PM 49.86

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: DARLENE WULFF

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 28-JAN-2014
00-00-00 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010

USERNAME => s130875
DGN FILE => 0300020662ib009.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0484

PROJECT NUMBER & PHASE 03000206621

NOTES:

1. SURVEY ELEVATIONS ARE ACCURATE RELATIVE TO AN ASSUMED SETUP ELEVATION OF 100.00
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	11	27

Darju D. Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp 09-30-15
CIVIL
STATE OF CALIFORNIA

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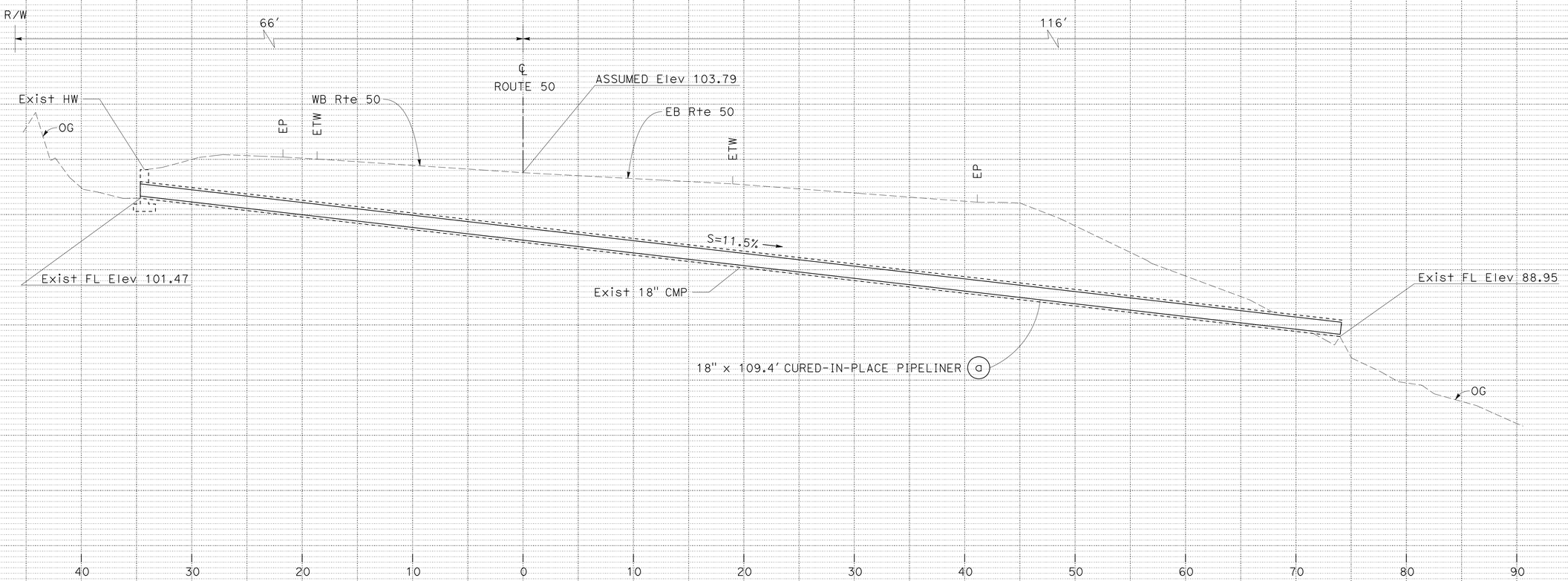


DRAINAGE SYSTEM No. 14
PM 50.14

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES
CALCULATED-DESIGNED BY:
CHECKED BY:
SARJU D. PATEL
DARLENE WULFF
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020662ib010.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	12	27

Darju D. Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

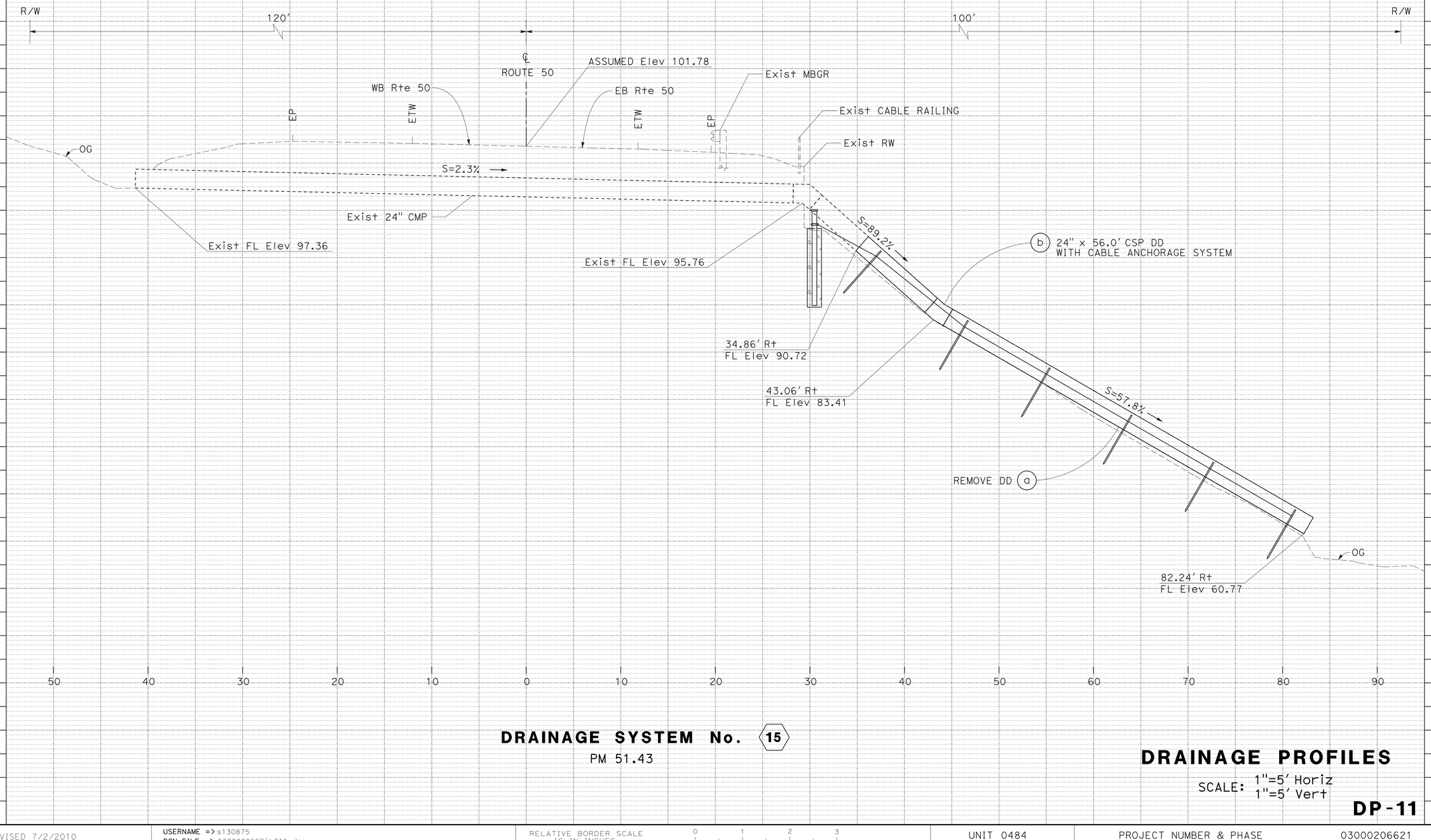
REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp. 09-30-15
CIVIL
STATE OF CALIFORNIA

1-27-14
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.

NOTES:

1. SURVEY ELEVATIONS ARE ACCURATE RELATIVE TO AN ASSUMED SETUP ELEVATION OF 100.00
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.



DRAINAGE SYSTEM No. 15

PM 51.43

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: DARLENE WULFF

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 28-JAN-2014 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020662ib011.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

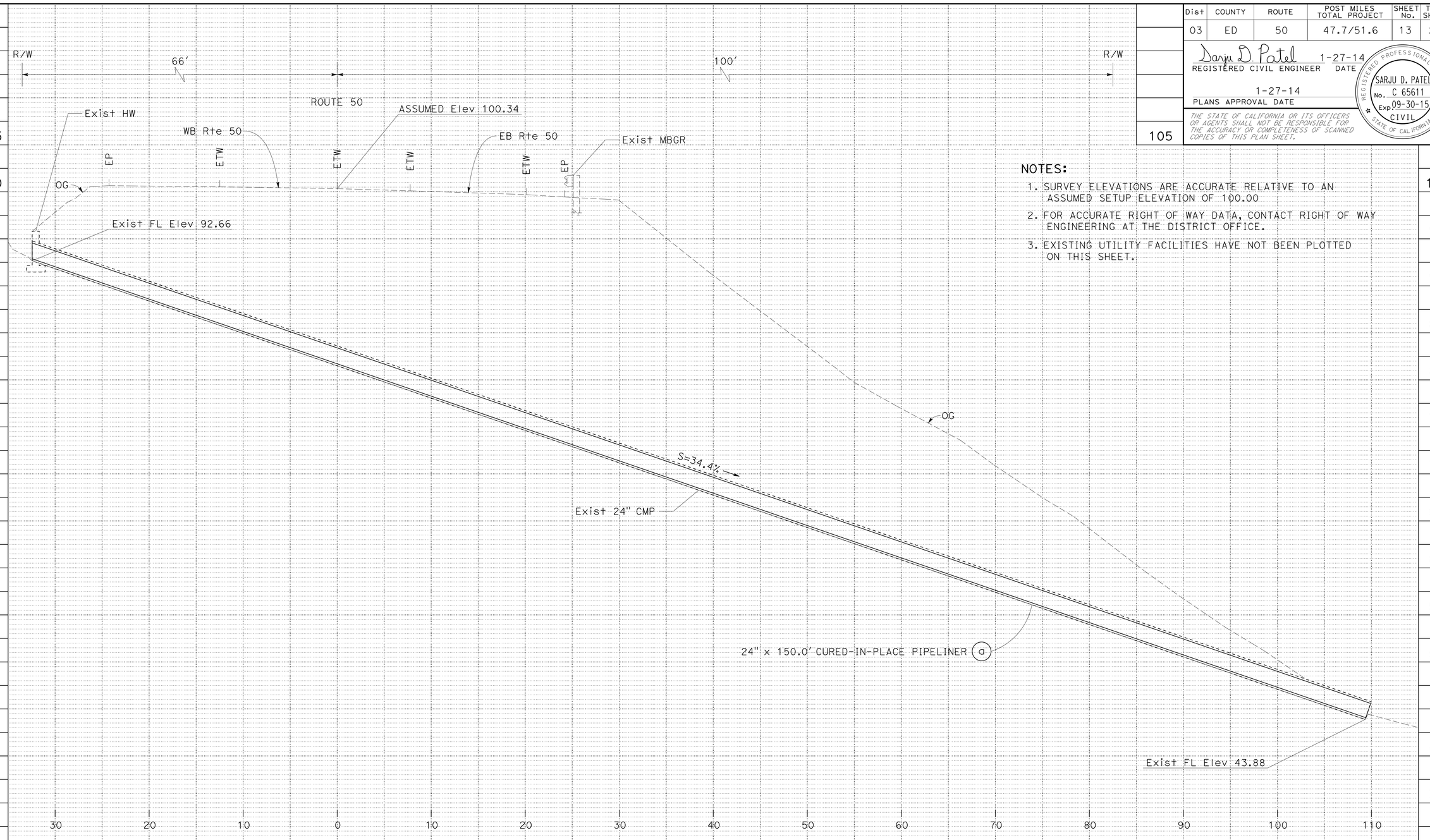
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	13	27

Darju D Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — SARJU D. PATEL — No. C 65611 — Exp. 09-30-15 — 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.



NOTES:

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2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.

DRAINAGE SYSTEM No. (16)
PM 51.47

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-12

REVISED BY | DATE REVISED
SARJU D. PATEL | DARLENE WULFF
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 28-JAN-2014 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 03000206621b012.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	14	27

Darju D Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp 09-30-15
CIVIL
STATE OF CALIFORNIA

1-27-14
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.

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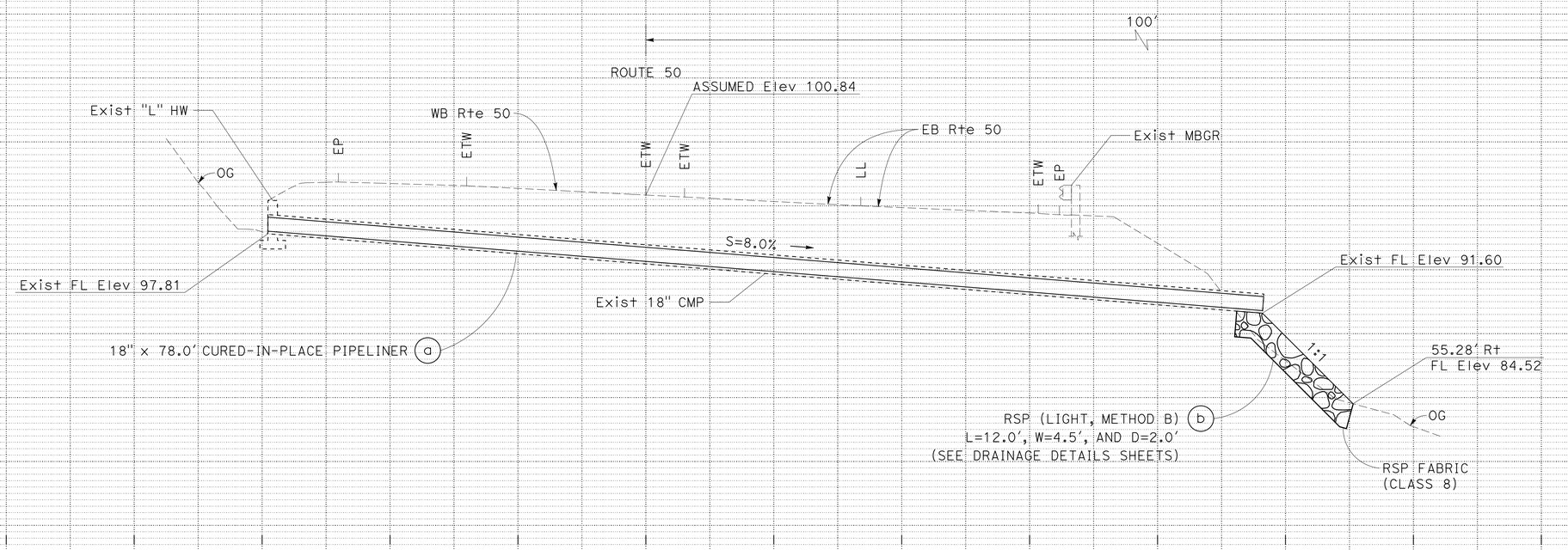
2. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.



DRAINAGE SYSTEM No. (17)
PM 51.52

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-13

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
SARJU D. PATEL
DARLENE WULFF
FUNCTIONAL SUPERVISOR
RONALD S. SYKES
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN
LAST REVISION 00-00-00
DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 03000206621b013.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	15	27

Daryn D Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp. 09-30-15
CIVIL
STATE OF CALIFORNIA

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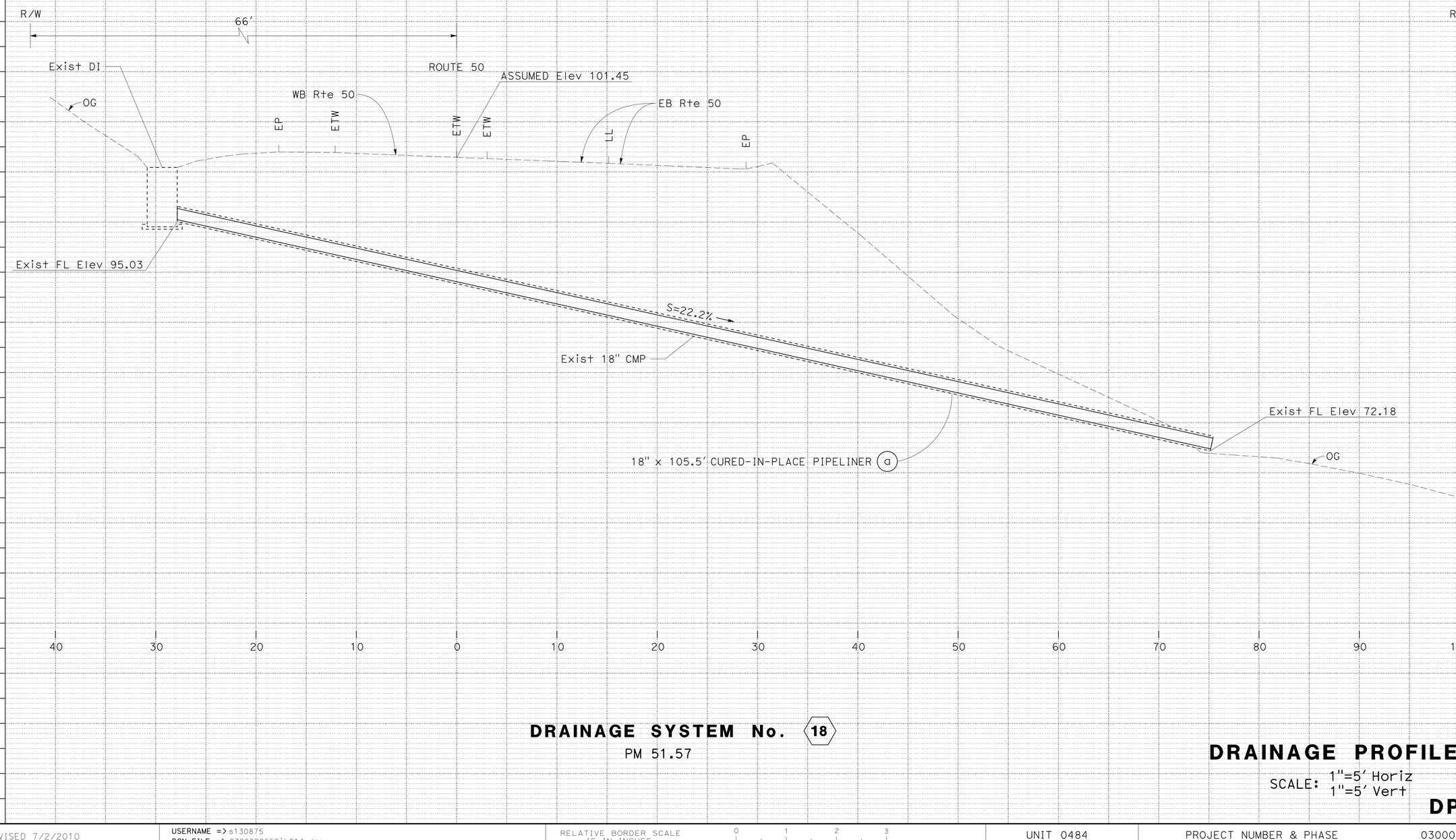
3. EXISTING UTILITY FACILITIES HAVE NOT BEEN PLOTTED ON THIS SHEET.



DRAINAGE SYSTEM No. 18

PM 51.57

DRAINAGE PROFILES

SCALE: 1"=5' Horiz
1"=5' Vert

DP-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: DARLENE WULFF

REVISED BY | DATE REVISED

LAST REVISION | DATE PLOTTED => 28-JAN-2014
00-00-00 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010

USERNAME => s130875
DGN FILE => 0300020662ib014.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0484

PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	16	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
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.

REGISTERED PROFESSIONAL ENGINEER
DARLENE WULFF
No. C77879
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

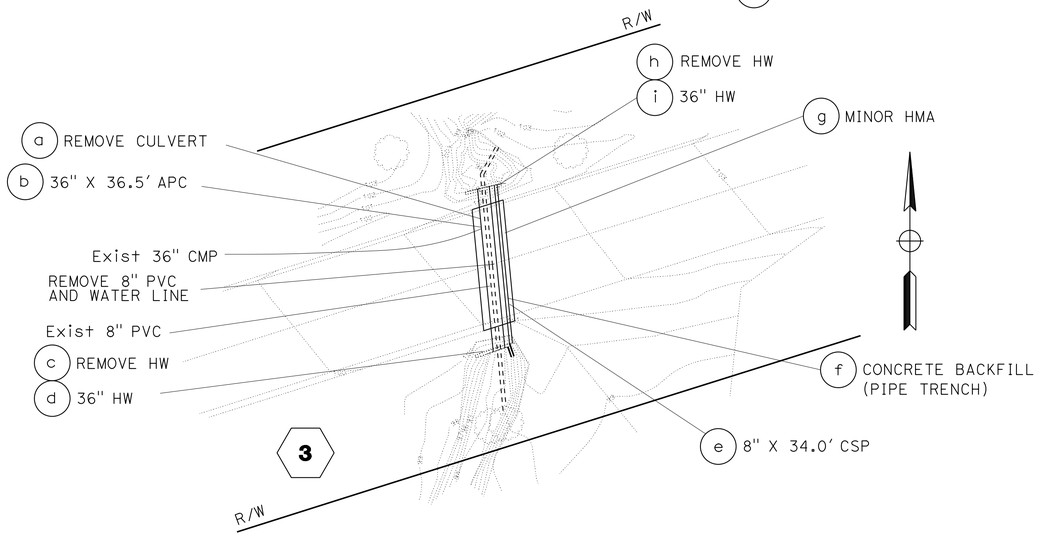
NOTE:

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

LEGEND:

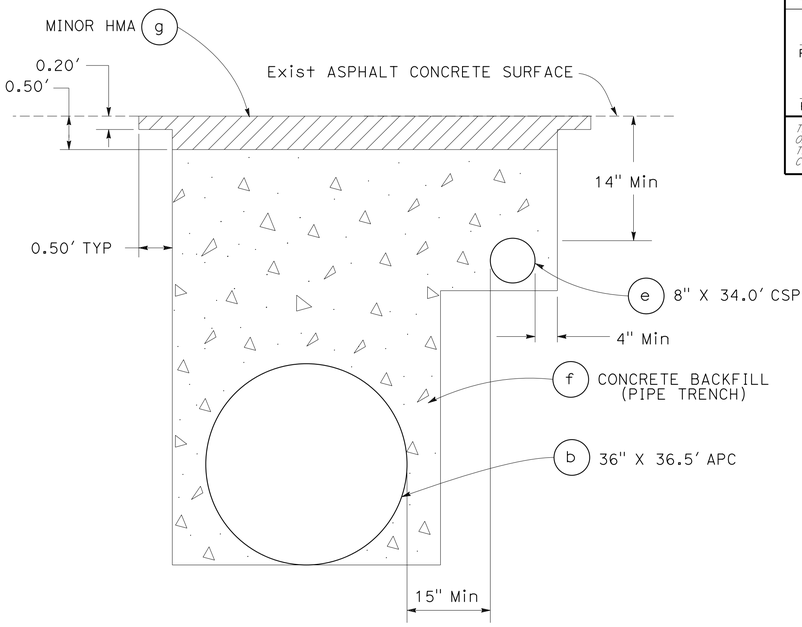
No. DRAINAGE SYSTEM No.

X DRAINAGE UNIT

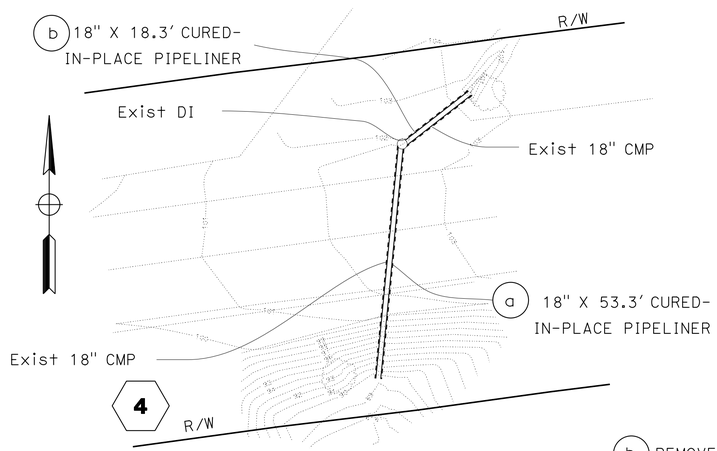


LOCATION 3 PLAN

PM 48.01

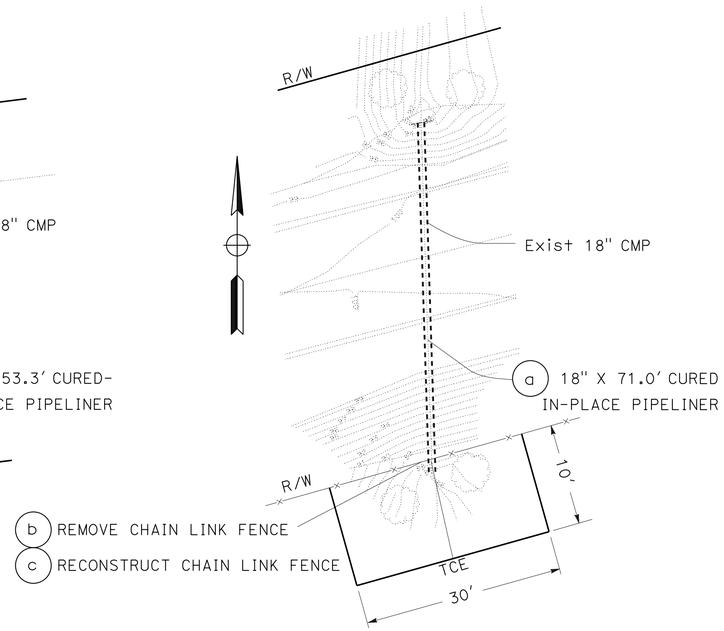


PM 48.01 TRENCH IN PAVEMENT
SECTION VIEW



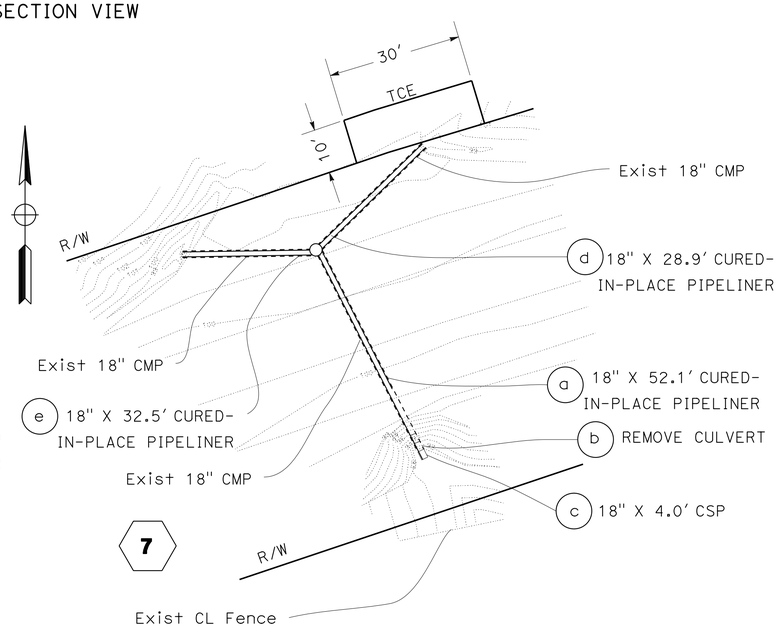
LOCATION 4 PLAN

PM 48.07



LOCATION 5 PLAN

PM 48.28



LOCATION 7 PLAN

PM 48.52

DRAINAGE DETAILS

NO SCALE

DD-1

DARLENE WULFF — REVISED BY — DATE REVISED
RONALD S. SYKES — CALCULATED-DESIGNED BY — CHECKED BY
RONALD S. SYKES — FUNCTIONAL SUPERVISOR
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020662ic001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	17	27

Sarju D Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp. 09-30-15
CIVIL
STATE OF CALIFORNIA

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NOTES:

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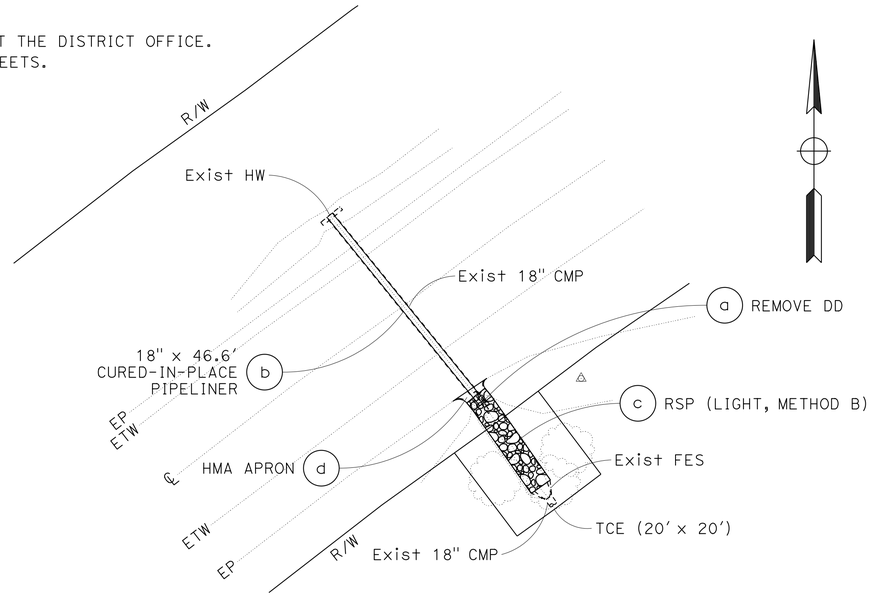
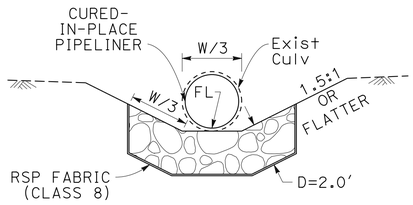
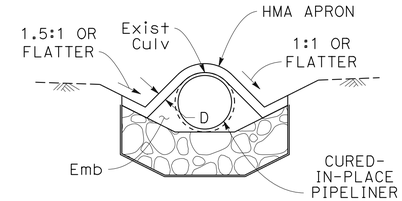
2. FOR LENGTH, WIDTH, DEPTH, AND SLOPE OF RSP SEE DRAINAGE PROFILES SHEETS.

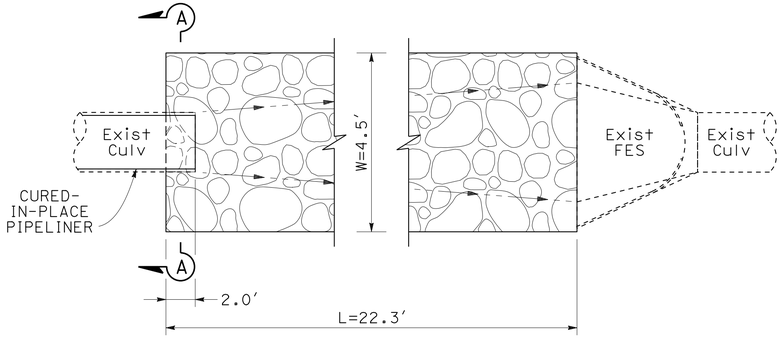




SECTION A-A

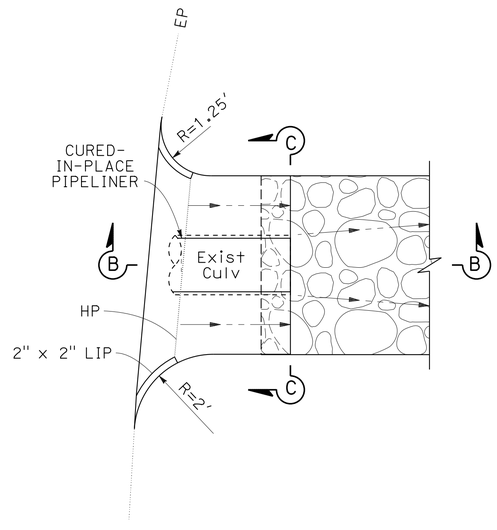


SECTION C-C

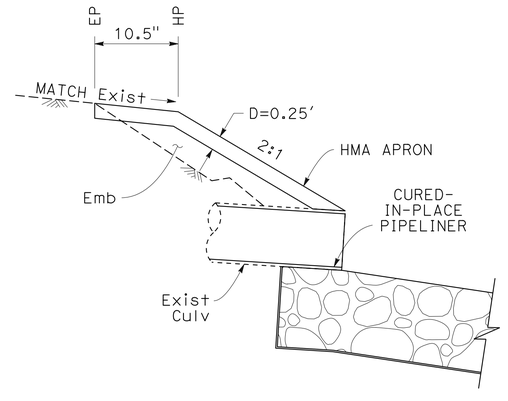


PLAN

RSP DETAIL



PLAN



SECTION B-B

HMA APRON DETAIL

DRAINAGE SYSTEM No. 10
PM 48.99

DRAINAGE DETAILS
NO SCALE

DD-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

CALCULATED-DESIGNED BY: SARJU D. PATEL
CHECKED BY: DARLENE WULFF
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
REVISED BY / DATE REVISED:

LAST REVISION 00-00-00 DATE PLOTTED => 28-JAN-2014 TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020662ic002.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	18	27

Daryu D Patel 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SARJU D. PATEL
No. C 65611
Exp. 09-30-15
CIVIL
STATE OF CALIFORNIA

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NOTE:

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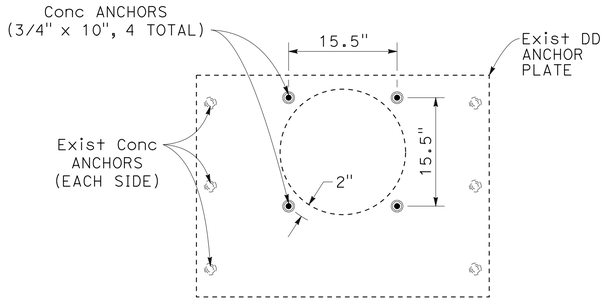
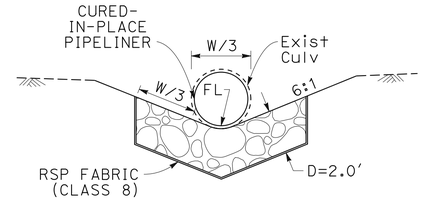
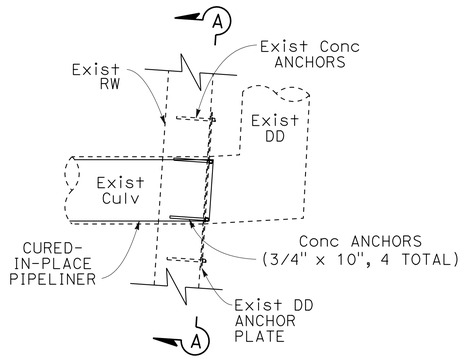


SECTION A-A



SECTION A-A

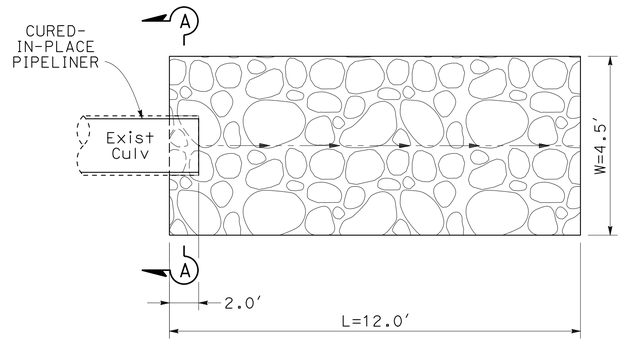


PLAN

RECONSTRUCT DD DETAIL

DRAINAGE SYSTEM No. 11

PM 49.04



PLAN

RSP DETAIL

DRAINAGE SYSTEM No. 17

PM 51.52

DRAINAGE DETAILS

NO SCALE

DD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: SARJU D. PATEL

CHECKED BY: DARLENE WULFF

REVISED BY	DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010

USERNAME => s130875
DGN FILE => 0300020662ic003.dgn

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

UNIT 0484

PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	19	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

DARLENE WULFF No. C77879 Exp. 6-30-15 CIVIL — REGISTERED PROFESSIONAL ENGINEER — 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 WATER POLLUTION CONTROL

DRAINAGE SYSTEM	POST MILE	TEMPORARY DRAINAGE INLET PROTECTION
		EA
4	48.07	1
7	48.52	1
12	49.56	1
TOTAL		3

ABBREVIATIONS:
WT - WATER TIGHT

APC ALLOWABLE PIPE MATERIAL

DESCRIPTION	TYPE	
	CSP (0.138")	HDPE TYPE S
	SIZE	
36" APC	36	36

DRAINAGE QUANTITIES

DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	POST MILE	18" CURED-IN-PLACE PIPELINER	24" CURED-IN-PLACE PIPELINER	30" CURED-IN-PLACE PIPELINER	36" ALTERNATIVE PIPE CULVERT	8" CORRUGATED STEEL PIPE (.079" THICK)	18" CORRUGATED STEEL PIPE (.109" THICK)	8" CORRUGATED STEEL PIPE (.079" THICK) DOWNDRAIN	24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	CLEANING, INSPECTING, AND PREPARING CULVERT	REMOVE CHAIN LINK FENCE	RECONSTRUCT CHAIN LINK FENCE	REMOVE HEADWALL	REMOVE DOWNDRAIN	RECONSTRUCT DOWNDRAIN	REMOVE CULVERT	(N) NATIVE MATERIAL	IMPORTED BORROW	MINOR CONCRETE (MINOR STRUCTURE)	(N) BAR REINFORCING STEEL	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS B)	8" ANCHOR ASSEMBLY	CABLE ANCHORAGE SYSTEM	CONCRETE BACKFILL (PIPE TRENCH)	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	MINOR HOT MIX ASPHALT	(N) REMOVE 8" PVC	(N) REMOVE WATER LINE	(N) PIPE JOINT CLASSIFICATION	DESCRIPTION	DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
				LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	LF	CY	CY	CY	LBS	CY	SQYD	EA	LF	CY	SQYD	TON	LF	LF					
	1	a	47.74	37.4								37.4																					18" CURED-IN-PLACE PIPELINER		1	a
DP-1																																		DP-1		
	2	a	47.93		39.4							39.4																					24" CURED-IN-PLACE PIPELINER		2	a
		a	48.01															36.5															REMOVE 36" CMP			a
		b					36.5												5.4												Std	36" APC			b
		c													1																	REMOVE HEADWALL			c
		d																			1.95	105									SINGLE HEADWALL			d
	3	e						34.0																					36.5	36.5	Std	8" CSP		3	e
DP-2		f																								28.8						CONCRETE BACKFILL	DP-2		f
		g																										6.4				MINOR HMA			g
		h													1																	REMOVE HEADWALL			h
		i																			1.88	110									"L" HEADWALL, W=3'-4"			i
	4	a	48.07	53.3								53.3																					18" CURED-IN-PLACE PIPELINER		4	a
		b		18.3								18.3																					18" CURED-IN-PLACE PIPELINER			b
		a	48.28	71.0								71.0																					18" CURED-IN-PLACE PIPELINER			a
	5	b											16.0																			REMOVE FENCE		5	b
DP-3		c												16.0																			RECONSTRUCT FENCE	DP-3		c
	6	a	48.45	45.2								45.2																					18" CURED-IN-PLACE PIPELINER		6	a
				225.2	39.4	0	36.5	34.0	0	0	0	264.6	16.0	16.0	2	0	0	36.5	5.4	0	3.83	215	0	0	0	0	28.8	0	6.4	36.5	36.5		SHEET DQ-1 TOTALS			

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

DRAINAGE QUANTITIES
DQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

CALCULATED-DESIGNED BY: DARLENE WULFF
CHECKED BY: RONALD S. SYKES
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020662id001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	20	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DARLENE WULFF
No. C77879
Exp. 6-30-15
CIVIL
STATE OF CALIFORNIA

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DRAINAGE QUANTITIES

DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	POST MILE	18" CURED-IN-PLACE PIPELINER	24" CURED-IN-PLACE PIPELINER	30" CURED-IN-PLACE PIPELINER	36" ALTERNATIVE PIPE CULVERT	8" CORRUGATED STEEL PIPE (.079" THICK)	18" CORRUGATED STEEL PIPE (.109" THICK)	8" CORRUGATED STEEL PIPE (.079" THICK) DOWNDRAIN	24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK)	CLEANING, INSPECTING, AND PREPARING CULVERT	REMOVE CHAIN LINK FENCE	RECONSTRUCT CHAIN LINK FENCE	REMOVE HEADWALL	REMOVE DOWNDRAIN	RECONSTRUCT DOWNDRAIN	REMOVE CULVERT	NATIVE MATERIAL (N)	IMPORTED BORROW	MINOR CONCRETE (MINOR STRUCTURE)	BAR REINFORCING STEEL (N)	ROCK SLOPE PROTECTION (LIGHT, METHOD B)	ROCK SLOPE PROTECTION FABRIC (CLASS B)	8" ANCHOR ASSEMBLY	CABLE ANCHORAGE SYSTEM	CONCRETE BACKFILL (PIPE TRENCH)	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)	MINOR HOT MIX ASPHALT	REMOVE 8" PVC (N)	REMOVE WATER LINE (N)	PIPE JOINT CLASSIFICATION (N)	DESCRIPTION	DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT
			LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA	LF	CY	CY	CY	LBS	CY	SQYD	EA	LF	CY	SQYD	TON	LF	LF					
DP-4	7	a	48.52	52.1								52.1																					18" CURED-IN-PLACE PIPELINER	DP-4	7	a
		b																2.0															REMOVE 18" CMP			b
		c							4.0																							S+d	18" CSP			c
		d		28.9								28.9																					18" CURED-IN-PLACE PIPELINER			d
		e		32.5								32.5																					18" CURED-IN-PLACE PIPELINER			e
DP-5	8	a	48.71			46.5						46.5																					30" CURED-IN-PLACE PIPELINER	DP-5	8	a
	9	a	48.79	58.0								58.0																					18" CURED-IN-PLACE PIPELINER		9	a
DP-6	10	a	48.99														1																REMOVE FLUME DD	DP-6	10	a
		b		46.6								46.6																					18" CURED-IN-PLACE PIPELINER			b
		c																					7.2	22.7								RSP (LIGHT, METHOD B)			c
		d																										2.0	0.2				HMA APRON			d
DP-7	11	a	49.04	59.4								59.4																					18" CURED-IN-PLACE PIPELINER	DP-7	11	a
		b																1															RECONSTRUCT DOWNDRAIN			b
DP-8	12	a	49.56												1																		REMOVE HEADWALL	DP-8	12	a
		b							3.0																							Std	18" CSP			b
		c																			0.91	50										SINGLE HEADWALL			c
		d																		2.0												IMPORTED BORROW			d
		e																8.0															REMOVE 18" CMP			e
		f							8.0																							Std	18" CSP			f
		g		77.8								77.8																					18" CURED-IN-PLACE PIPELINER			g
		h															1															REMOVE 8" CMP DOWNDRAIN			h
		i								25.9																2						WT	8" CSP DOWNDRAIN			i
				355.3	0	46.5	0	0	15.0	25.9	0	401.8	0	0	1	2	1	10.0	0	2.0	0.91	50	7.2	22.7	2	0	0	2.0	0.2	0	0		SHEET DQ-2 TOTALS			

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

DRAINAGE QUANTITIES
DQ-2

CALCULATED-DESIGNED BY: DARLENE WULFF
CHECKED BY: RONALD S. SYKES
REVISED BY | DATE REVISED

FUNCTIONAL SUPERVISOR: RONALD S. SYKES

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 28-JAN-2014 | TIME PLOTTED => 08:28

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020662id002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0484 | PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	21	27

Darlene Wulff 1-27-14
REGISTERED CIVIL ENGINEER DATE

1-27-14
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — DARLENE WULFF — No. C77879 — Exp. 6-30-15 — CIVIL — STATE OF CALIFORNIA

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DRAINAGE QUANTITIES

DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○	POST MILE	18" CURED-IN-PLACE PIPELINER LF	24" CURED-IN-PLACE PIPELINER LF	30" CURED-IN-PLACE PIPELINER LF	36" CURED-IN-PLACE PIPELINER LF	8" CORRUGATED STEEL PIPE (.079" THICK) LF	18" CORRUGATED STEEL PIPE (.109" THICK) LF	8" CORRUGATED STEEL PIPE (.079" THICK) DOWNDRAIN LF	24" CORRUGATED STEEL PIPE DOWNDRAIN (.138" THICK) LF	CLEANING, INSPECTING, AND PREPARING CULVERT LF	REMOVE CHAIN LINK FENCE LF	RECONSTRUCT CHAIN LINK FENCE LF	REMOVE HEADWALL EA	REMOVE DOWNDRAIN EA	RECONSTRUCT DOWNDRAIN EA	REMOVE CULVERT LF	(N) NATIVE MATERIAL CY	IMPORTED BORROW CY	MINOR CONCRETE (MINOR STRUCTURE) CY	(N) BAR REINFORCING STEEL LBS	ROCK SLOPE PROTECTION (LIGHT, METHOD B) CY	ROCK SLOPE PROTECTION FABRIC (CLASS 8) SQYD	8" ANCHOR ASSEMBLY EA	CABLE ANCHORAGE SYSTEM LF	CONCRETE BACKFILL (PIPE TRENCH) CY	PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA) SQYD	MINOR HOT MIX ASPHALT TON	(N) REMOVE 8" PVC LF	(N) REMOVE WATER LINE LF	(N) PIPE JOINT CLASSIFICATION	DESCRIPTION	DRAINAGE PROFILE SHEET No.	DRAINAGE SYSTEM No. ⬡	DRAINAGE UNIT ○
DP-9	13	a	49.86	61.3								61.3																					18" CURED-IN-PLACE PIPELINER	DP-9	13	a
DP-10	14	a	50.14	109.4								109.4																					18" CURED-IN-PLACE PIPELINER	DP-10	14	a
DP-11	15	a	51.43													1																	REMOVE 24" CMP DOWNDRAIN	DP-11	15	a
		b									56.0															56.0					WT	24" CSP DOWNDRAIN			b
DP-12	16	a	51.47		150.0							150.0																					24" CURED-IN-PLACE PIPELINER	DP-12	16	a
DP-13	17	a	51.52	78.0								78.0																					18" CURED-IN-PLACE PIPELINER	DP-13	17	a
		b																						3.9	13.1								RSP (LIGHT, METHOD B)			b
DP-14	18	a	51.57	105.5								105.5																					18" CURED-IN-PLACE PIPELINER	DP-14	18	a
				354.2	150.0	0	0	0	0	0	56.0	504.2	0	0	0	1	0	0	0	0	0	0	3.9	13.1	0	56.0	0	0	0	0	0		SHEET DQ-3 TOTAL			
				225.2	39.4	0	36.5	34.0	0	0	0	264.6	16.0	16.0	2	0	0	36.5	5.4	0	3.83	215	0	0	0	0	28.8	0	6.4	36.5	36.5		SHEET DQ-1 TOTAL			
				355.3	0	46.5	0	0	15.0	25.9	0	401.8	0	0	1	2	1	10.0	0	2.0	0.91	50	7.2	22.7	2	0	0	2.0	0.2	0	0		SHEET DQ-2 TOTAL			
				934.7	189.4	46.5	36.5	34.0	15.0	25.9	56.0	1170.6	16.0	16.0	3	3	1	46.5	5.4	2.0	4.74	265	11.1	35.8	2	56.0	28.8	2.0	6.6	36.5	36.5		TOTAL			

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

DRAINAGE QUANTITIES
DQ-3

DATE PLOTTED => 28-JAN-2014
TIME PLOTTED => 08:28
LAST REVISION 00-00-00

CALCULATED-DESIGNED BY: DARLENE WULFF
CHECKED BY: RONALD S. SYKES
FUNCTIONAL SUPERVISOR: RONALD S. SYKES
REVISED BY | DATE REVISED

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® MAINTENANCE DESIGN

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020662id003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0484
PROJECT NUMBER & PHASE 03000206621

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	22	27

LICENSED LANDSCAPE ARCHITECT

1-27-14
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
JAMES G. WILLIAMSON
No. 5415
Signature
02-28-14
Renewal Date
1-24-14
Date
STATE OF CALIFORNIA

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EROSION CONTROL

ITEM	MATERIAL		APPLICATION RATE	COMMENTS
	DESCRIPTION	TYPE		
STRAW	STRAW	PINE NEEDLES	2" DEPTH	APPLY PINE NEEDLES TO AREAS DISTURBED BY CONSTRUCTION ACTIVITIES.

EROSION CONTROL QUANTITIES

⬡ DRAINAGE SYSTEM No.	POST MILE	LOCATION	STRAW SQFT
3	48.01	INLET	85
3	48.01	OUTLET	98
6	48.45	OUTLET	50
10	48.99	OUTLET	200
12	49.56	INLET	50
12	49.56	OUTLET/ DOWNDRAIN	400
15	51.43	INLET	450
17	51.52	OUTLET	100
		TOTAL	1,433

APPROVED FOR EROSION CONTROL WORK ONLY

EROSION CONTROL DETAILS

ECD-1

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY: J. KURTH
CHECKED BY: J. WILLIAMSON

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
T. CHRIS JOHNSON

LAST REVISION: DATE PLOTTED => 28-JAN-2014
12-30-13 TIME PLOTTED => 08:28

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
℄,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
03	ED	50	47.7/51.6	23	27

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 1-27-14

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
03	ED	50	47.7/51.6	24	27

Glenn DeCou
REGISTERED CIVIL ENGINEER

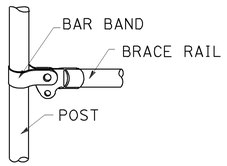
REGISTERED PROFESSIONAL ENGINEER
Glenn DeCou
No. C34547
Exp. 9-30-13
CIVIL
STATE OF CALIFORNIA

October 19, 2012
PLANS APPROVAL DATE

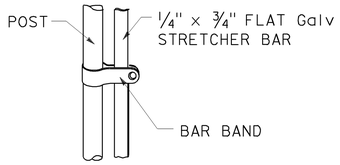
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 1-27-14

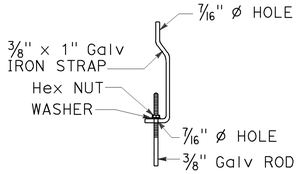
2010 REVISED STANDARD PLAN RSP A85B



BRACE RAIL



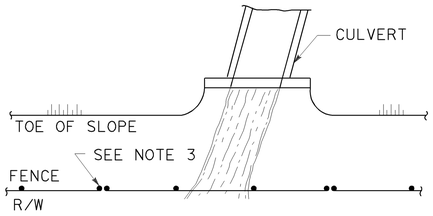
STRETCHER BAR



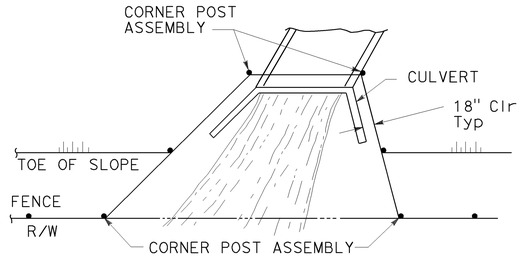
TRUSS TIGHTENER

NOTES:

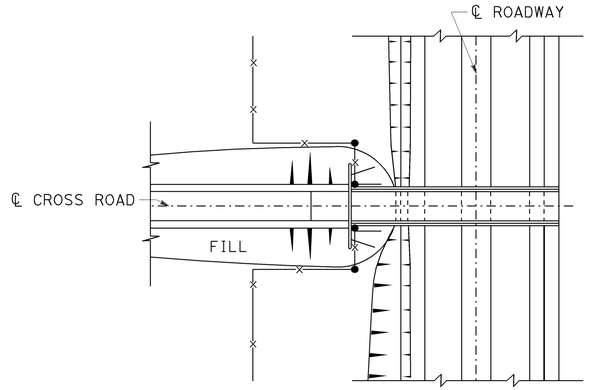
1. All material for abutment connection to be galvanized.
2. The chain link fabric shall be replaced by barbed wire strands at 12" maximum centers between the double posts.
3. When the width of the culvert makes it necessary to anchor a post to the top of the culvert, a cast iron shoe or other device approved by the Engineer shall be used.
4. Fencing over stream and around headwall may also use Barbed Wire or Wire Mesh fencing with either wood post or steel post installation.
5. See Standard Plan A85 for Chain Link fence dimensions. See Standard Plan A86 for Barbed Wire and Wire Mesh fence dimensions and for wood post and steel post installation.



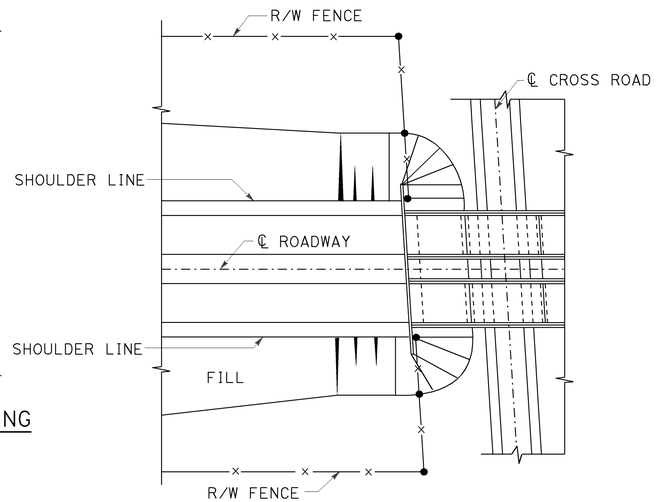
PLAN



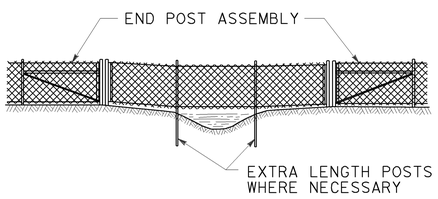
PLAN



PLAN OF ROADWAY - OVERCROSSING

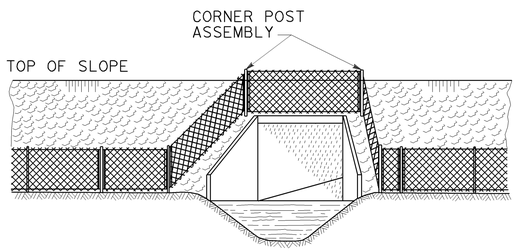


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

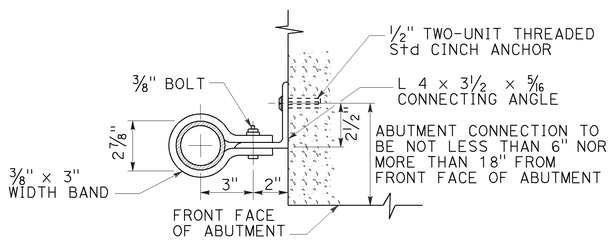
INSTALLATION OVER STREAM



ELEVATION

INSTALLATION AROUND HEADWALL

See Note 4



ABUTMENT CONNECTION

TYPICAL INSTALLATION AT BRIDGES

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CHAIN LINK FENCE DETAILS

NO SCALE

RSP A85B DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A85B DATED MAY 20, 2011 - PAGE 114 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A85B

7-19-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	25	27

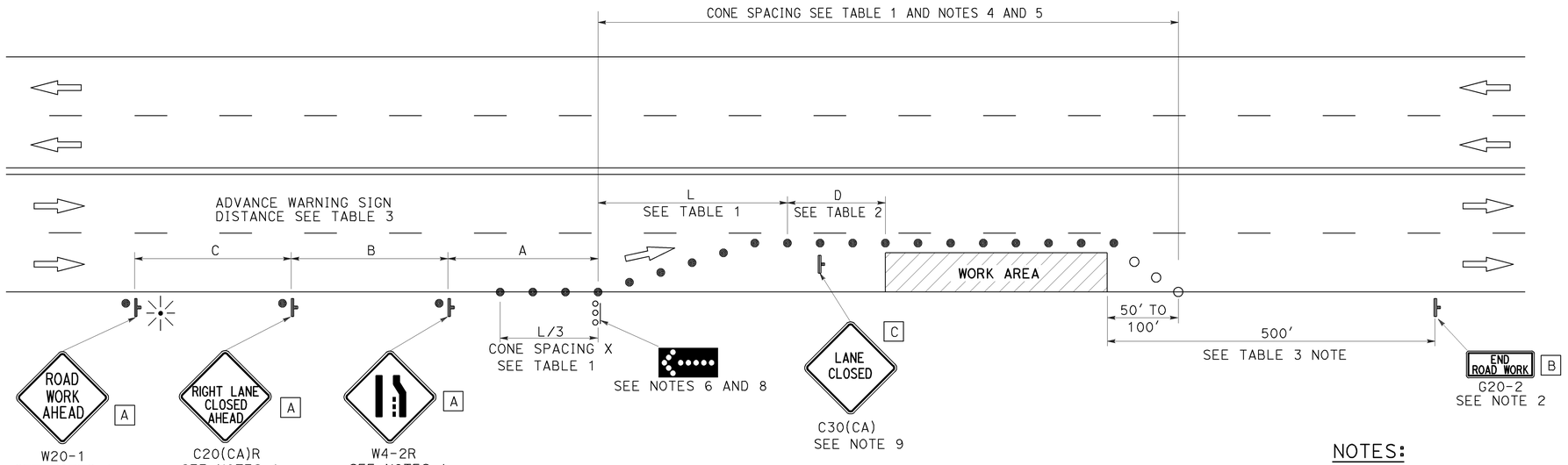
REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Gurinderpa 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 1-27-14



TYPICAL LANE CLOSURE

NOTES:

1. Each advance warning sign 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.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
3. 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.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Flashing arrow sign shall be either Type I or Type II.
7. For approach speeds over 50 mph, use the "Traffic Control System for Lane Closure On Freeways And Expressways" plan for lane closure details and requirements.
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. Place a C30(CA) sign every 2000' throughout length of lane closure.
10. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
11. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.

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.

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	36" x 18"
C	30" x 30"

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T11 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T11 DATED MAY 20, 2011 - PAGE 239 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T11

2010 REVISED STANDARD PLAN RSP T11

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	26	27

REGISTERED CIVIL ENGINEER

April 19, 2013
PLANS APPROVAL DATE

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

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TO ACCOMPANY PLANS DATED 1-27-14

LEGEND

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

SIGN PANEL SIZE (Min)

- A 48" × 48"
- B 24" × 24"
- C 36" × 18"

NOTES:

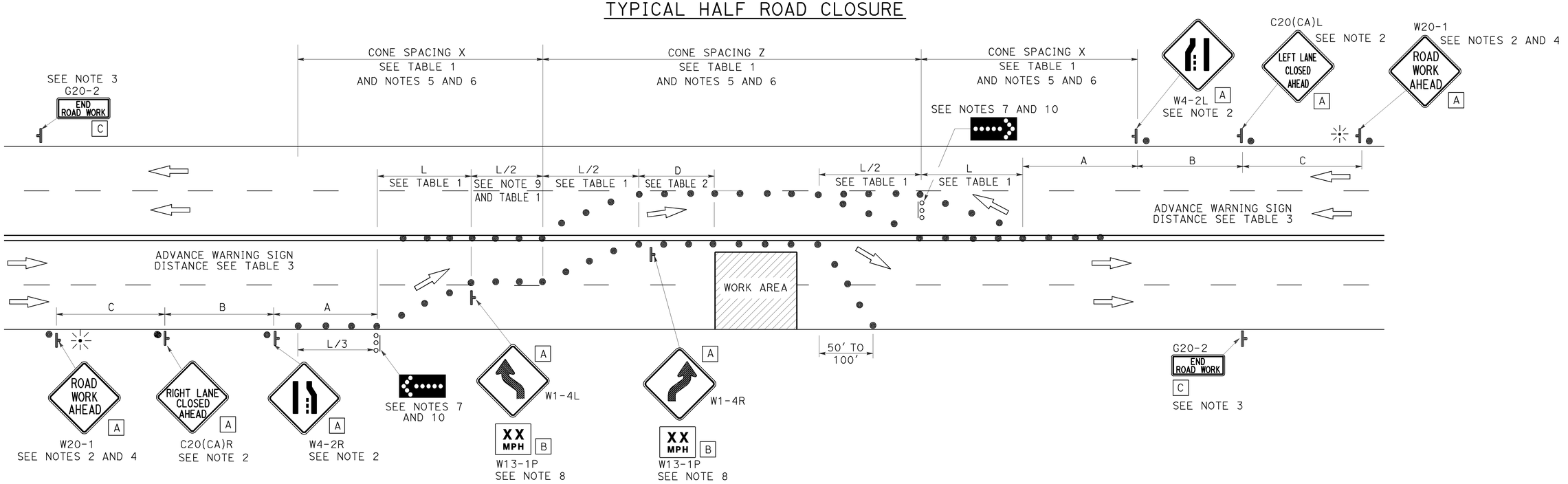
See Revised Standard Plan RSP T9 for tables.

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.

TYPICAL HALF ROAD CLOSURE



NOTES:

1. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closure unless, otherwise directed by the Engineer.
2. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
3. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious, or ends within a larger project's limits.
4. 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.
5. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
6. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
7. Flashing arrow signs shall be either Type I or Type II.
8. Advisory speed will be determined by the Engineer. The W13-1P Plaque will not be required when advisory speed is more than the posted or maximum speed limit.
9. Unless otherwise specified in the special provisions, the tangent (L/2) shall be used.
10. 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.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR HALF ROAD CLOSURE ON MULTILANE CONVENTIONAL HIGHWAYS AND EXPRESSWAYS

NO SCALE

RSP T12 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T12
DATED MAY 20, 2011 - PAGE 240 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T12

2010 REVISED STANDARD PLAN RSP T12

4-2-13

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	ED	50	47.7/51.6	27	27

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 1-27-14

2010 REVISED STANDARD PLAN RSP T13

NOTES:

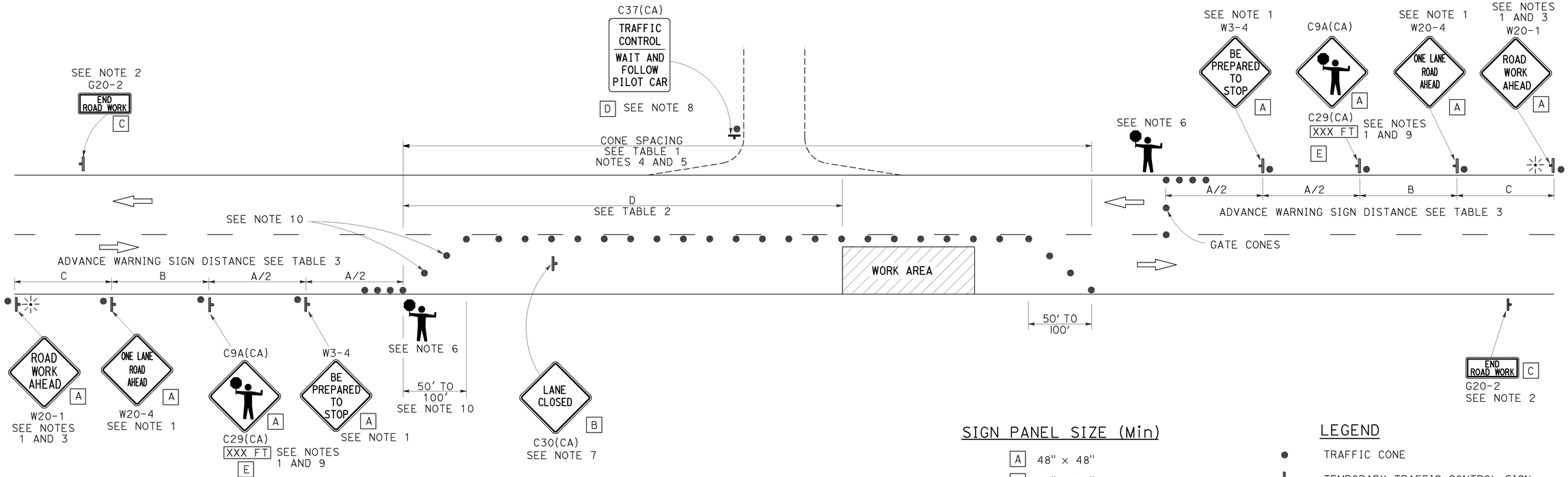
See Revised Standard Plan RSP T9 for tables.

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.

TYPICAL LANE CLOSURE WITH REVERSIBLE CONTROL



SIGN PANEL SIZE (Min)

A	48" × 48"
B	30" × 30"
C	36" × 18"
D	36" × 42"
E	20" × 7"

LEGEND

- TRAFFIC CONE
- TEMPORARY TRAFFIC CONTROL SIGN
- PORTABLE FLASHING BEACON
- FLAGGER

NOTES:

1. Each advance warning sign in each direction of travel shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
2. A G20-2 "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane control unless the end of work area is obvious, or ends within a larger project's limits.
3. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT _____ MILES", use a W20-4 sign for the first advance warning sign.
4. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
5. Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime closures only.
6. Additional advance flaggers may be required. Flagger should stand in a conspicuous place, be visible to approaching traffic as well as approaching vehicles after the first vehicle has stopped. During the hours of darkness, the flagging-station and flagger shall be illuminated and clearly visible to approaching traffic. The illumination footprint of the lighting on the ground shall be at least 20' in diameter. Place a minimum of four cones at 50' intervals in advance of flagger station as shown.
7. Place C30(CA) "LANE CLOSED" sign at 500' to 1000' intervals throughout extended work areas. They are optional if the work area is visible from the flagger station.
8. When a pilot car is used, place a C37(CA) "TRAFFIC CONTROL-WAIT AND FOLLOW PILOT CAR" sign with black legend on white background at all intersections, driveways and alleys without a flagger within traffic control area. Signs shall be clean and visible at all times. Where traffic can not be effectively self-regulated, at least one flagger shall be used at each intersection within traffic control area.
9. An optional C29(CA) sign may be placed below the C9A(CA) sign.
10. Either traffic cones or barricades shall be placed on the taper. Barricades shall be Type I, II, or III.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON TWO LANE CONVENTIONAL HIGHWAYS

NO SCALE

RSP T13 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T13 DATED MAY 20, 2011 - PAGE 241 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T13

4-2-13