

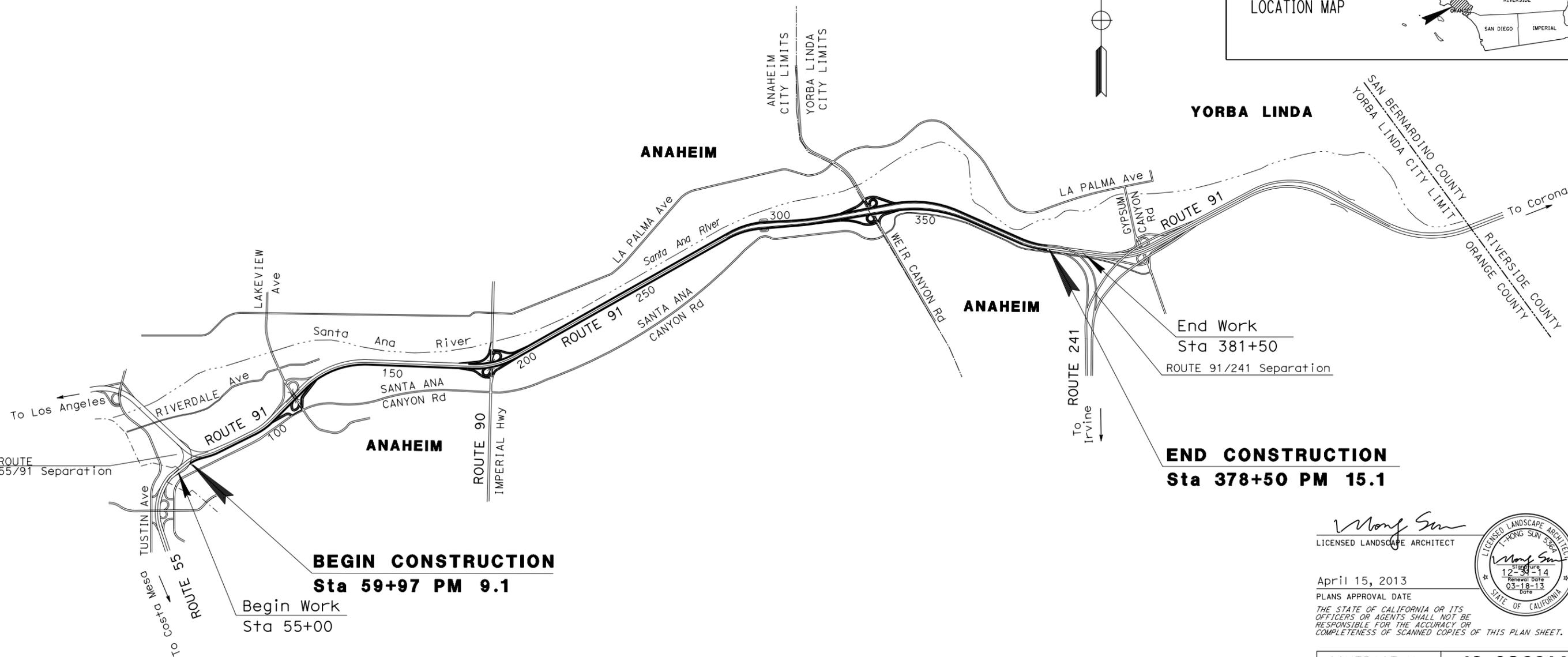
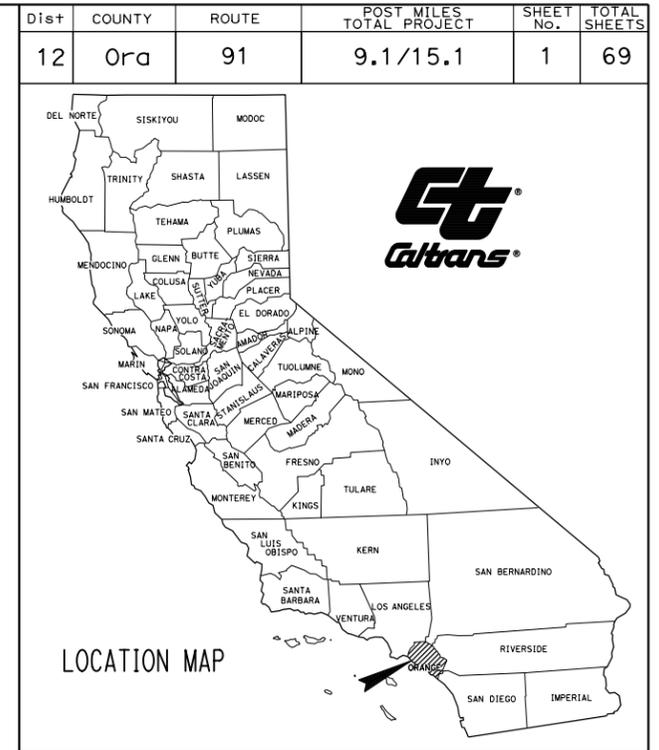
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2	CONSTRUCTION AREA SIGNS
3	IRRIGATION SPRINKLER SCHEDULE
4-28	IRRIGATION PLANS
29-34	IRRIGATION QUANTITIES
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64	LANDSCAPE DETAILS
65	EROSION CONTROL QUANTITIES
66	ELECTRICAL SERVICE (IRRIGATION)
67-68	TRAFFIC CONTROL SYSTEM
69	REVISED STANDARD PLANS

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

STATE OF CALIFORNIA ACNHP-PO91(139)
DEPARTMENT OF TRANSPORTATION
PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN ORANGE COUNTY
IN ANAHEIM AND YORBA LINDA
FROM ROUTE 55/91 SEPARATION
TO ROUTE 91/241 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2010



PROJECT MANAGER
ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
ERIC DICKSON

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

NO SCALE



USERNAME => s133991
DGN FILE => 1200020234ab001.dgn

UNIT 3014 PROJECT NUMBER & PHASE 12000202341

CONTRACT No.	12-0G3314
PROJECT ID	1200020234

LICENSED LANDSCAPE ARCHITECT
 April 15, 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.

DATE PLOTTED => 06-MAY-2013
 TIME PLOTTED => 12:32
 LAST REVISION 10-10-12

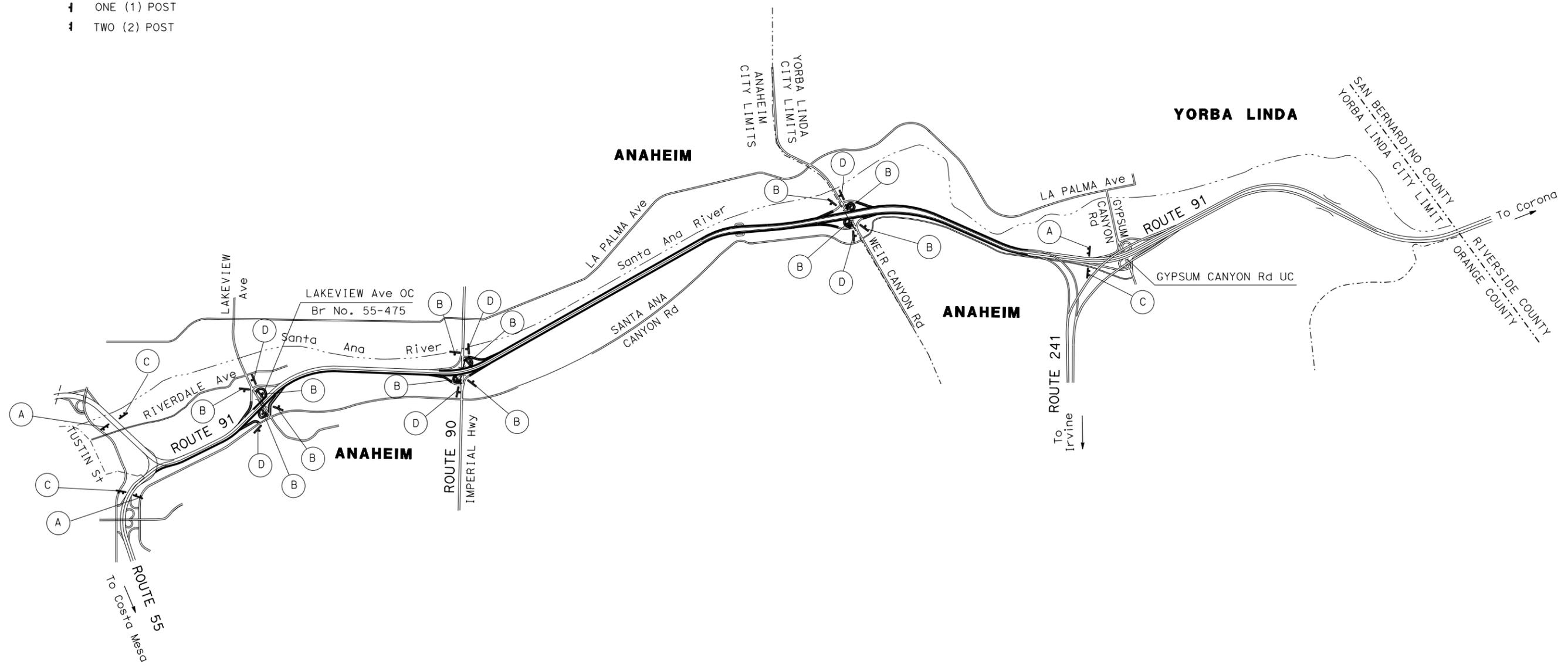
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: SON NGUYEN
 M. ALIAKBARZADEH
 M. ALIAKBARZADEH
 REVISOR: M. ALIAKBARZADEH
 DATE: 03-18-13

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST AND SIZE	No. OF SIGNS
(A)	W20-1	72" x 72"	ROAD WORK AHEAD	2 - 4" x 6"	3
(B)	W20-1	48" x 48"	ROAD WORK AHEAD	1 - 4" x 4"	12
(C)	G20-2	60" x 24"	END ROAD WORK	2 - 4" x 4"	3
(D)	G20-2	42" x 24"	END ROAD WORK	1 - 4" x 4"	6

NOTE:
 1. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER.

LEGEND:
 ↓ ONE (1) POST
 ↓ TWO (2) POST



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Oran	91	9.1/15.1	2	69

Mostafa Aliakbarzadeh 03-18-13
 REGISTERED CIVIL ENGINEER DATE
 April 15, 2013
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 MOSTAFA ALIAKBARZADEH
 No. C-53003
 Exp. 03-31-15
 CIVIL
 STATE OF CALIFORNIA

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

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY



USERNAME => s133991
 DGN FILE => 1200020234\1a001.dgn

CU 3004

EA 1200020234

BORDER LAST REVISED 3/1/2007

LAST REVISION: 07-19-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	3	69

Monty Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 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.

SPRINKLER SCHEDULE

SYMBOL	TYPE	DESCRIPTION	SPRAY PATTERN	OPERATING PRESSURE (PSI)	PRESSURE COMPENSATING	PLUS/MINUS 5% ②				MATERIAL	NOZZLE SIZE (INCH)	INLET CONNECTION (NPT INCH)	IN-STEM PRESSURE REGULATOR (PRS)	BACKSPASH PREVENTER	DIFFUSER PIN	DISTANCE CONTROL FLAP	ADJ DISCHARGE	RISER ⑤					SPRINKLER PROTECTOR (TYPE)	REMARKS			
						DISCHARGE		RADIUS (F+)	WIDTH X LENGTH (F+)									TYPE	MATERIAL		SIZE (IPS INCH)	HEIGHT (INCH)			FLOW SHUTOFF DEVICE		
						GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)												PLASTIC	GALVANIZED							
⑤	A-5	Gear driven	P	45	--	1.5	--	35	--	PL	--	3/4"	X	--	--	--	--	IV	X	--	3/4"	18	--	I	--	--	
⑤	A-5	Gear driven	F	45	--	1.5	--	35	--	PL	--	3/4"	X	--	--	--	--	IV	X	--	3/4"	18	--	I	--	--	
⑥	A-6	Gear driven	P	45	--	1.5	--	35	--	PL	--	3/4"	X	--	--	--	--	--	--	--	--	--	I	--	--	12" Pop-up ⑥	
⑦	A-7	Gear driven	P	45	--	4.9	--	45	--	PL	--	3/4"	X	--	--	--	--	IV	X	--	3/4"	18	--	I	--	--	
⑦	A-7	Gear driven	F	45	--	4.9	--	45	--	PL	--	3/4"	X	--	--	--	--	IV	X	--	3/4"	18	--	I	--	--	
⑧	A-8	Gear driven	P	45	--	4.9	--	45	--	PL	--	3/4"	X	--	--	--	--	--	--	--	--	--	I	--	--	12" Pop-up ⑥	
●	C-1	Spray head	Q	30	X	0.1	--	5	--	PL	--	1/2"	--	--	--	--	--	II	X	--	1/2"	6	--	I	--	--	
△	B-1	Spray with Rotary Nozzle	H/F	30	--	0.8/1.6	--	13-18	--	PL	--	1/2"	--	--	--	--	--	IV	X	--	1/2"	18	--	I	--	--	
▲	B-2	Spray with Rotary Nozzle	H	30	--	0.8	--	13-18	--	PL	--	1/2"	--	--	--	--	--	--	--	--	--	--	I	--	--	12" Pop-up ⑥	
□	B-3	Spray with Rotary Nozzle	H/F	30	--	1.5/3.0	--	17-24	--	PL	--	1/2"	--	--	--	--	--	IV	X	--	1/2"	18	--	I	--	--	
■	B-4	Spray with Rotary Nozzle	H	30	--	1.5	--	17-24	--	PL	--	1/2"	--	--	--	--	--	--	--	--	--	--	I	--	--	12" Pop-up ⑥	

	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
	0-12 GPM	12-22 GPM	22-30 GPM	30-50 GPM	50-75 GPM	75-110 GPM
⑤ A-5	1-7	8-14	15-19	20-32	33-48	49-71
⑤ A-5	1-7	8-14	15-19	20-32	33-48	49-71
⑥ A-6	1-7	8-14	15-19	20-32	33-48	49-71
⑦ A-7	1-2	3-4	5	6-9	10-14	15-21
⑦ A-7	1-2	3-4	5	6-9	10-14	15-21
⑧ A-8	1-2	3-4	5	6-9	10-14	15-21
● C-1	1-120					
△ B-1	1-15	16-27	28-37	38-62	63-93	93-137
▲ B-2	1-15	16-27	28-37	38-62	63-93	93-137
□ B-3	1-8	9-14	15-20	21-33	34-50	50-73
■ B-4	1-8	9-14	15-20	21-33	34-50	50-73

PIPE SIZING CHART

X IN BOX DENOTES REQUIREMENT

ABBREVIATIONS

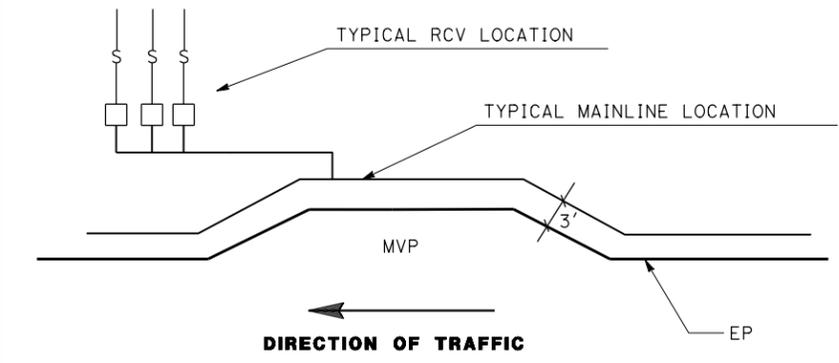
- | | |
|---------------------------|-------------------------------|
| F — full circle | GPM — gallons per minute |
| P — part circle | GPH — gallons per hour |
| F/P — full/part circle | Adj — adjustable |
| Q — quarter circle | PL — plastic |
| T — third circle | B/B — brass/bronze |
| H — half circle | B/PL — brass/plastic |
| TT — two third circle | B/B/PL — brass/bronze/plastic |
| TQ — three quarter circle | NPT — national pipe thread |
| CST — center strip | IPS — iron pipe size |
| SST — side strip | PSI — pounds per square inch |
| EST — end strip | |
| F+ — feet/foot | |

APPLICABLE WHEN CIRCLED BELOW:

- See Special Provisions.
- If a pressure compensating device is specified, the discharge and radii shown reflect its use.
- Arc Stop shall be fitted with a nut and bolt.
- Vinyl-coated cast iron housing.
- Swing Joints required adjacent to shoulders, curbs, sidewalks, and dikes.
- Sprinkler protector required adjacent to travel way.

NOTES:

- IRRIGATION SLEEVES REQUIRED WHEN LATERAL LINES CROSS UNDER MAINTENANCE ACCESS ROAD.
- C-1 SPRINKLER TO BE INSTALLED ON THE LOWER SIDE OF SLOPE SPRAYING TOWARD THE TREE BEIGN WATERED.
- INSTALL A CHECK VALVE AT THE LOWEST SPRINKLER HEAD OF EACH STATION.
- GSP REQUIRED WHEN SUPPLY LINES CROSS OVER PAVED DITCH.



RCV/MVP DETAIL

IRRIGATION SPRINKLER SCHEDULE
 NO SCALE
ISS-1

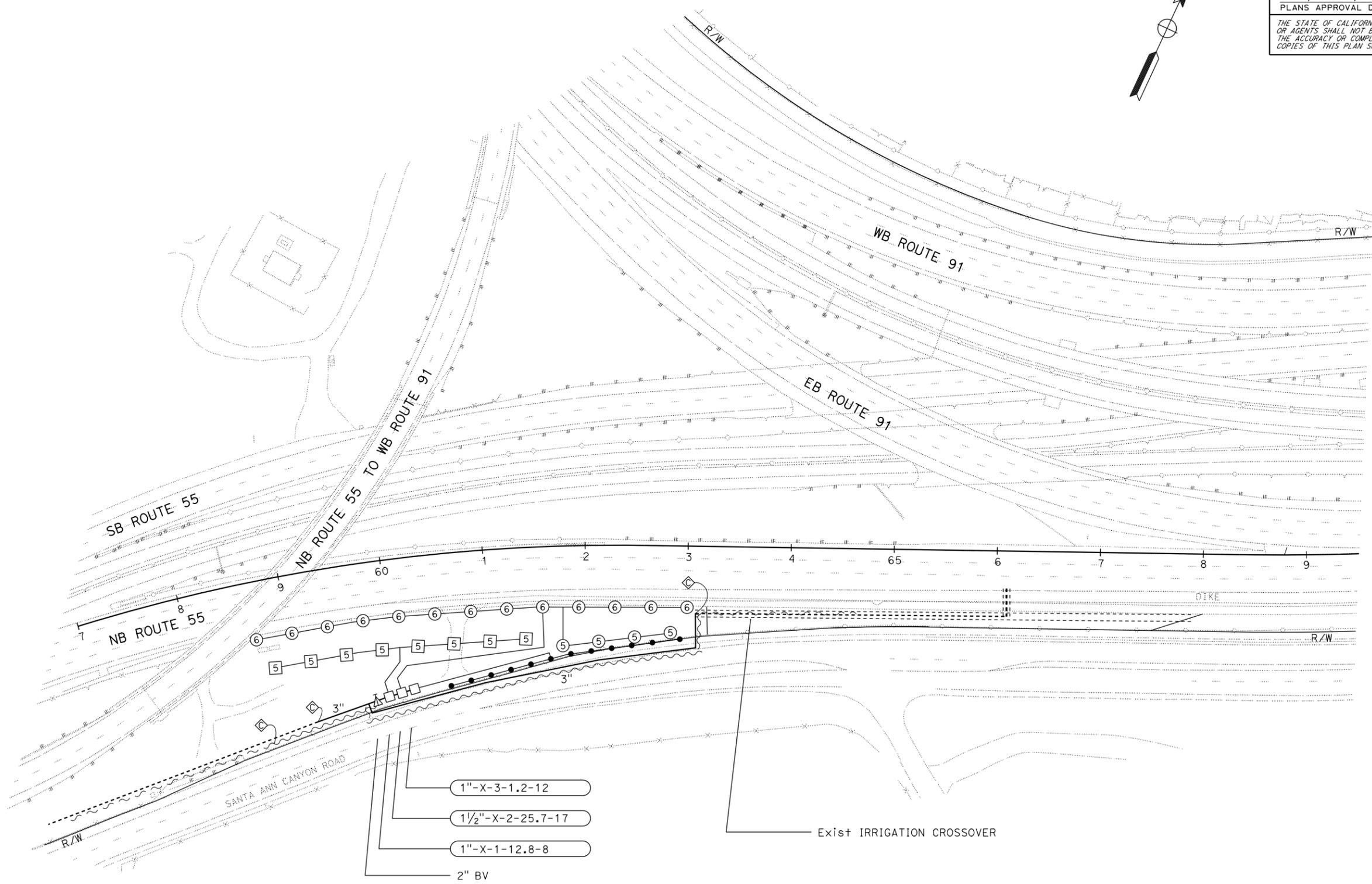
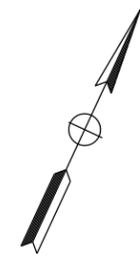
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 TIME PLOTTED => 10:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	4	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 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.

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



- 1"-X-3-1.2-12
- 1 1/2"-X-2-25.7-17
- 1"-X-1-12.8-8
- 2" BV

Exist IRRIGATION CROSSOVER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 LANDON MARES
 I-HONG SUN
 ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT

IRRIGATION PLAN
IP-1

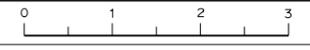
SCALE: 1" = 50'

APPROVED FOR IRRIGATION WORK ONLY

BORDER LAST REVISED 7/2/2010

USERNAME => s133991
 DGN FILE => 1200020234sp001.dgn

RELATIVE BORDER SCALE
 IS IN INCHES



UNIT 3014

PROJECT NUMBER & PHASE

12000202341

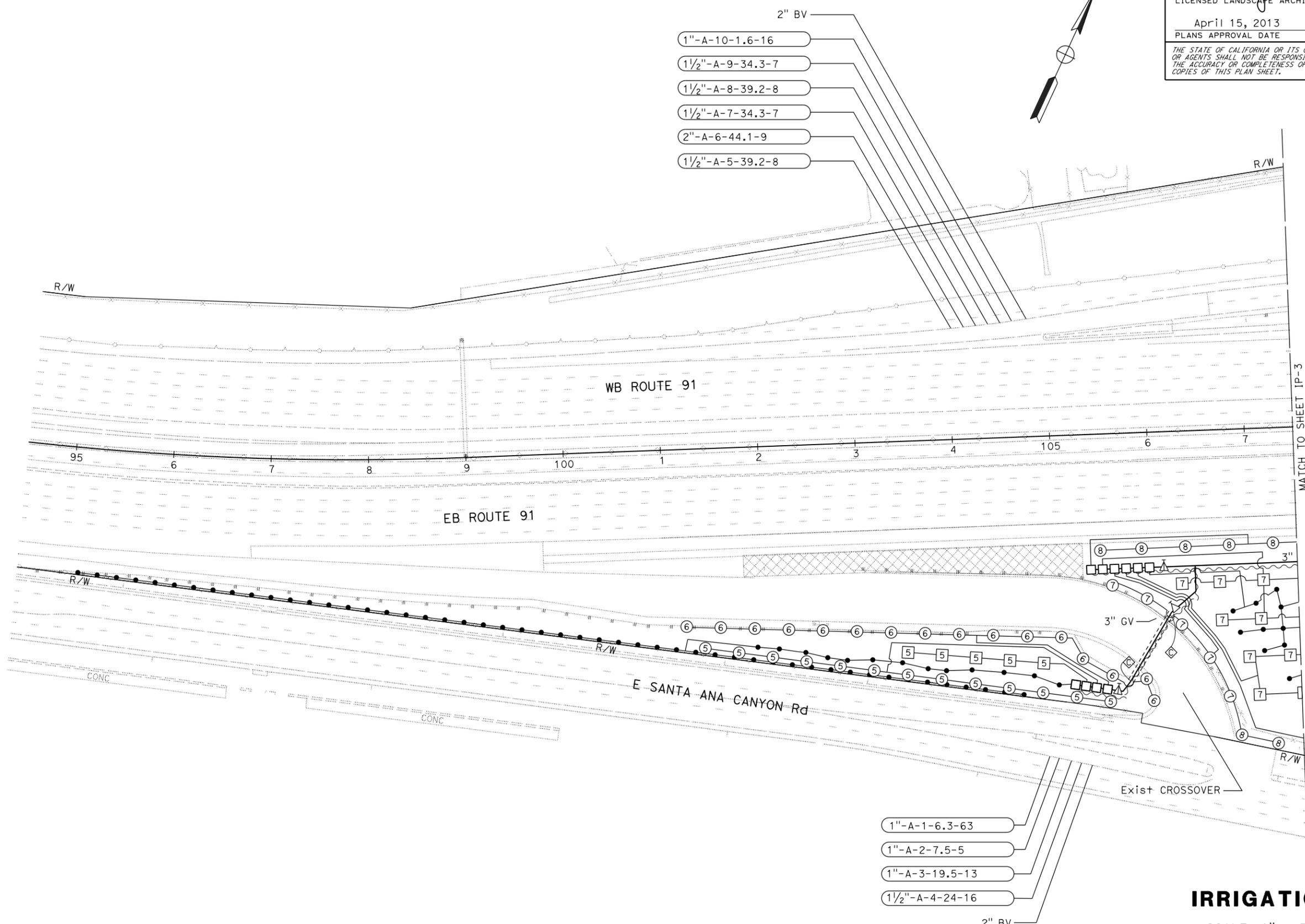
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 12-12-12 TIME PLOTTED => 10:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	5	69

Monf Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

REVISOR: LONDON MARES, I-HONG SUN
 CHECKED BY: ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
Et-Gilbrans



APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
IP-2
 SCALE: 1" = 50'

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EtGaltans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LANDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

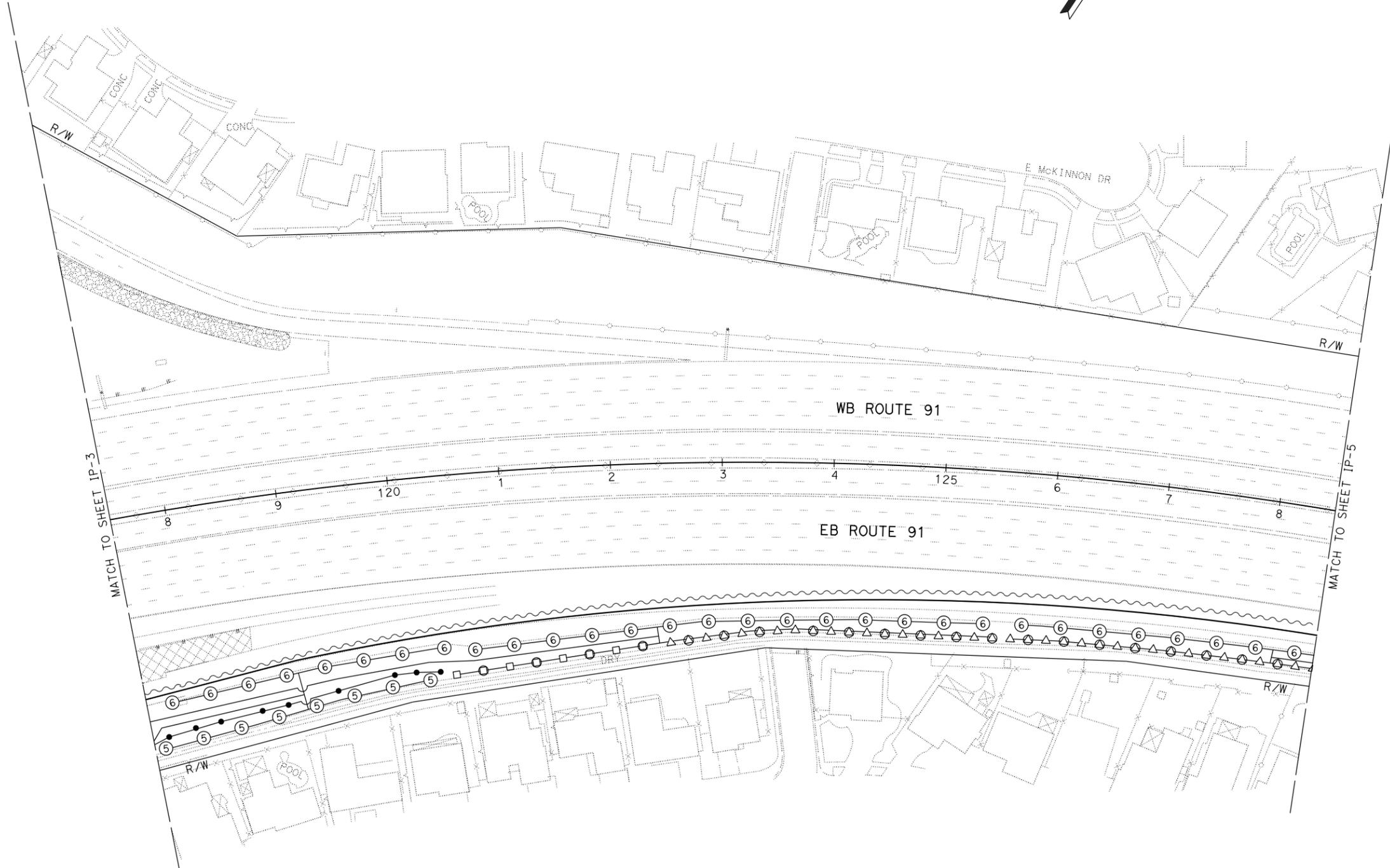
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	7	69

Manof Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
IP-4

SCALE: 1" = 50'

NOTE:

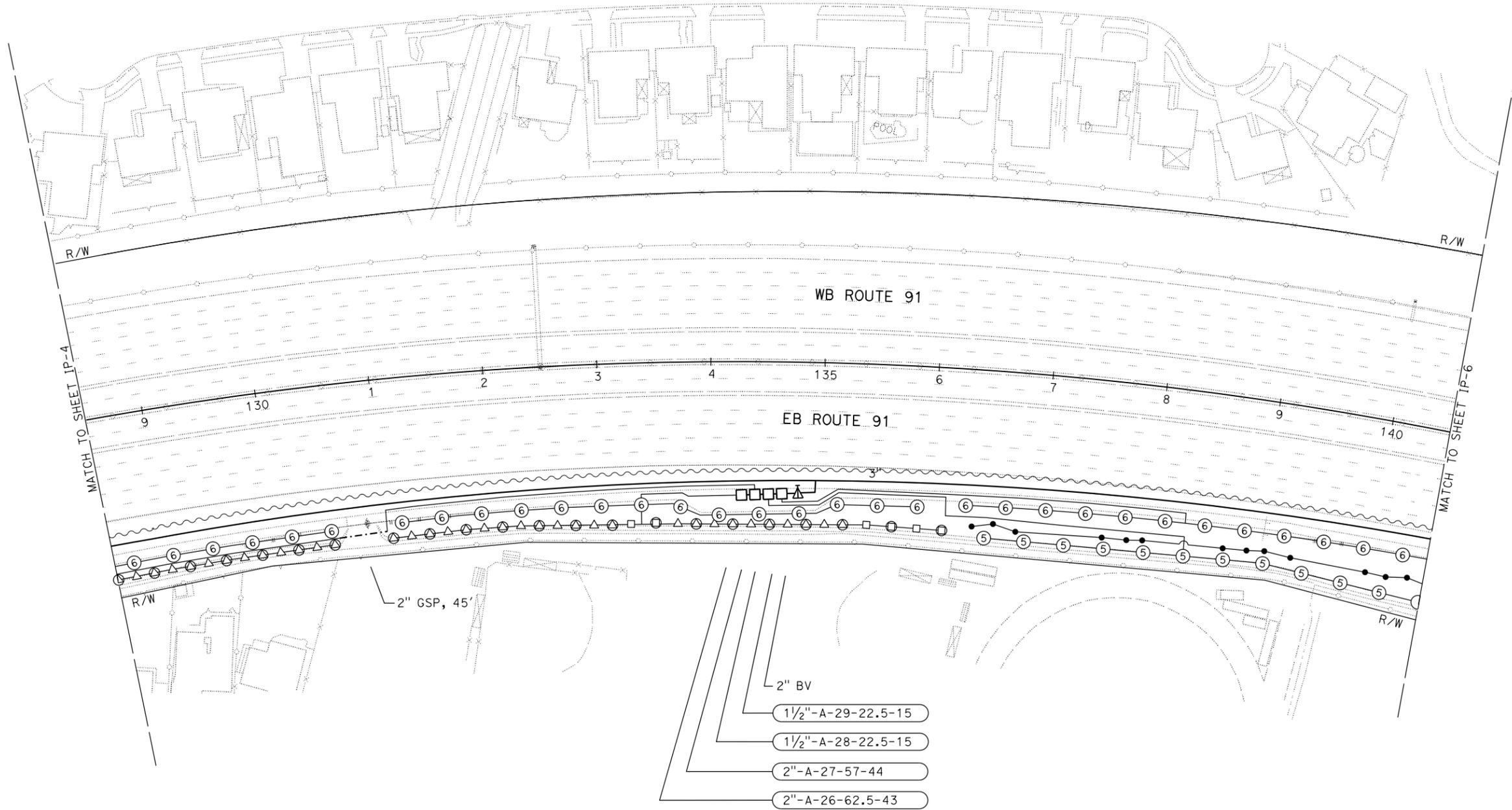
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	8	69

Wong Sun
LICENSED LANDSCAPE ARCHITECT

April 15, 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.



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
ERIC DICKSON

CALCULATED-DESIGNED BY
CHECKED BY

LANDON MARES
I-HONG SUN

REVISED BY
DATE REVISED

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
SCALE: 1" = 50'
IP-5

BORDER LAST REVISED 7/2/2010

USERNAME => s133991
DGN FILE => 1200020234sp005.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 3014

PROJECT NUMBER & PHASE

12000202341

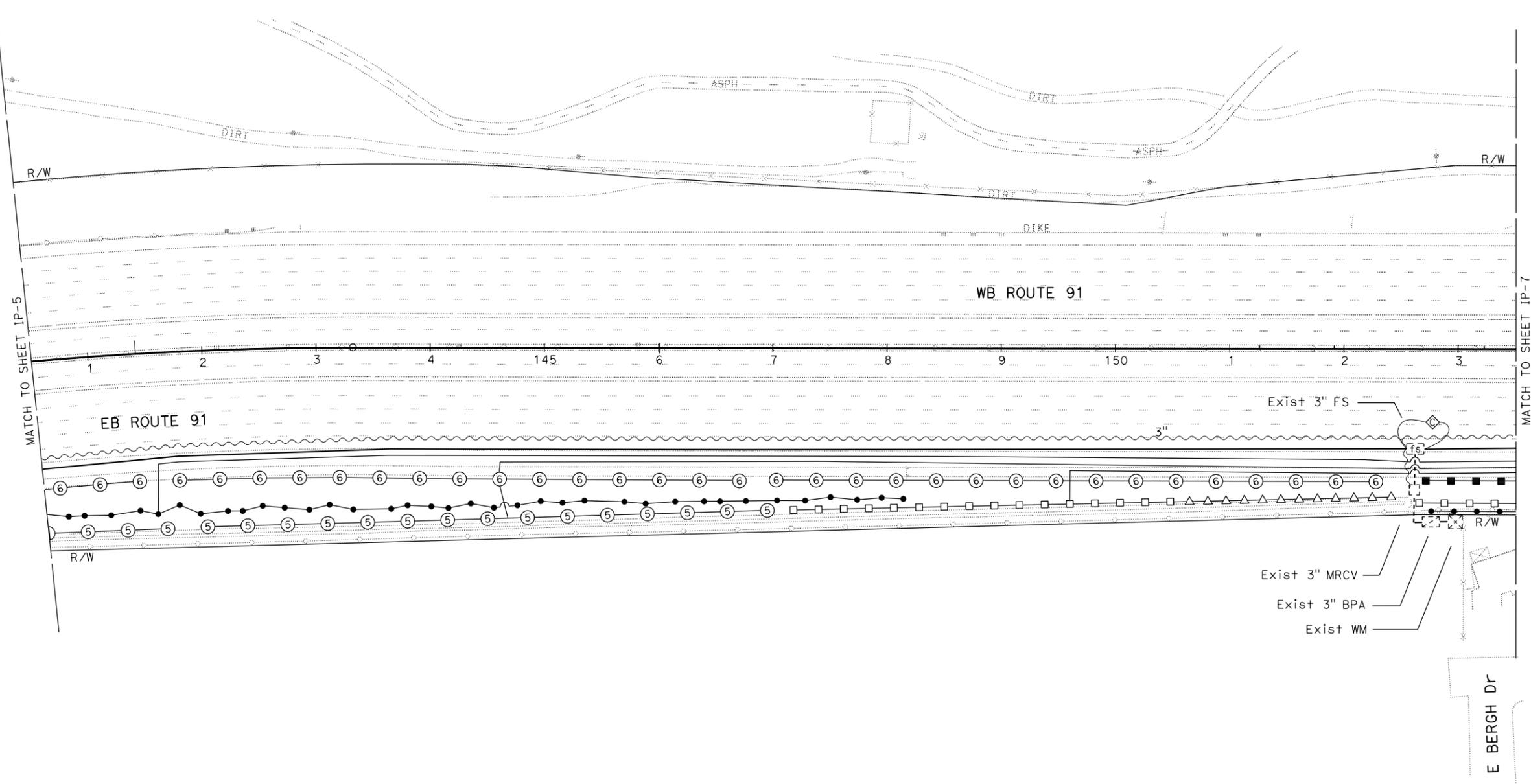
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DATE PLOTTED => 11-APR-2013
TIME PLOTTED => 10:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	9	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		

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NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



Exist 3" F/S
 Exist 3" MRCV
 Exist 3" BPA
 Exist WM

E BERGH Dr

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
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 LANDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-6

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50
 12-12-12

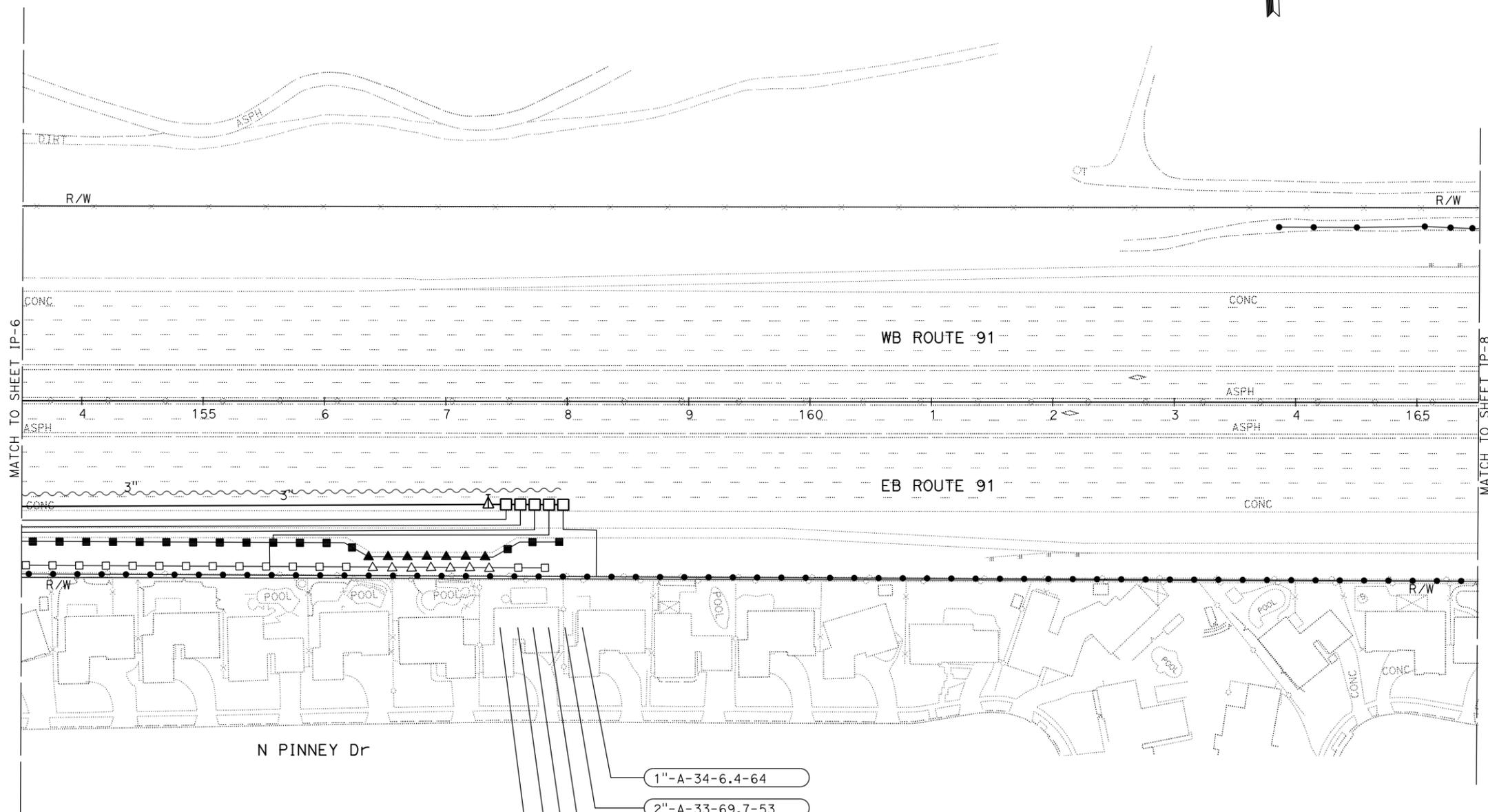
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	10	69

<i>Monty Sun</i>	
LICENSED LANDSCAPE ARCHITECT	
April 15, 2013	
PLANS APPROVAL DATE	
<small>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.</small>	



NOTE:
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EtGaltans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED



- 1"-A-34-6.4-64
- 2"-A-33-69.7-53
- 2"-A-32-57.6-46
- 2"-A-31-45-30
- 1"-A-30-4.9-49
- 2" BV

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

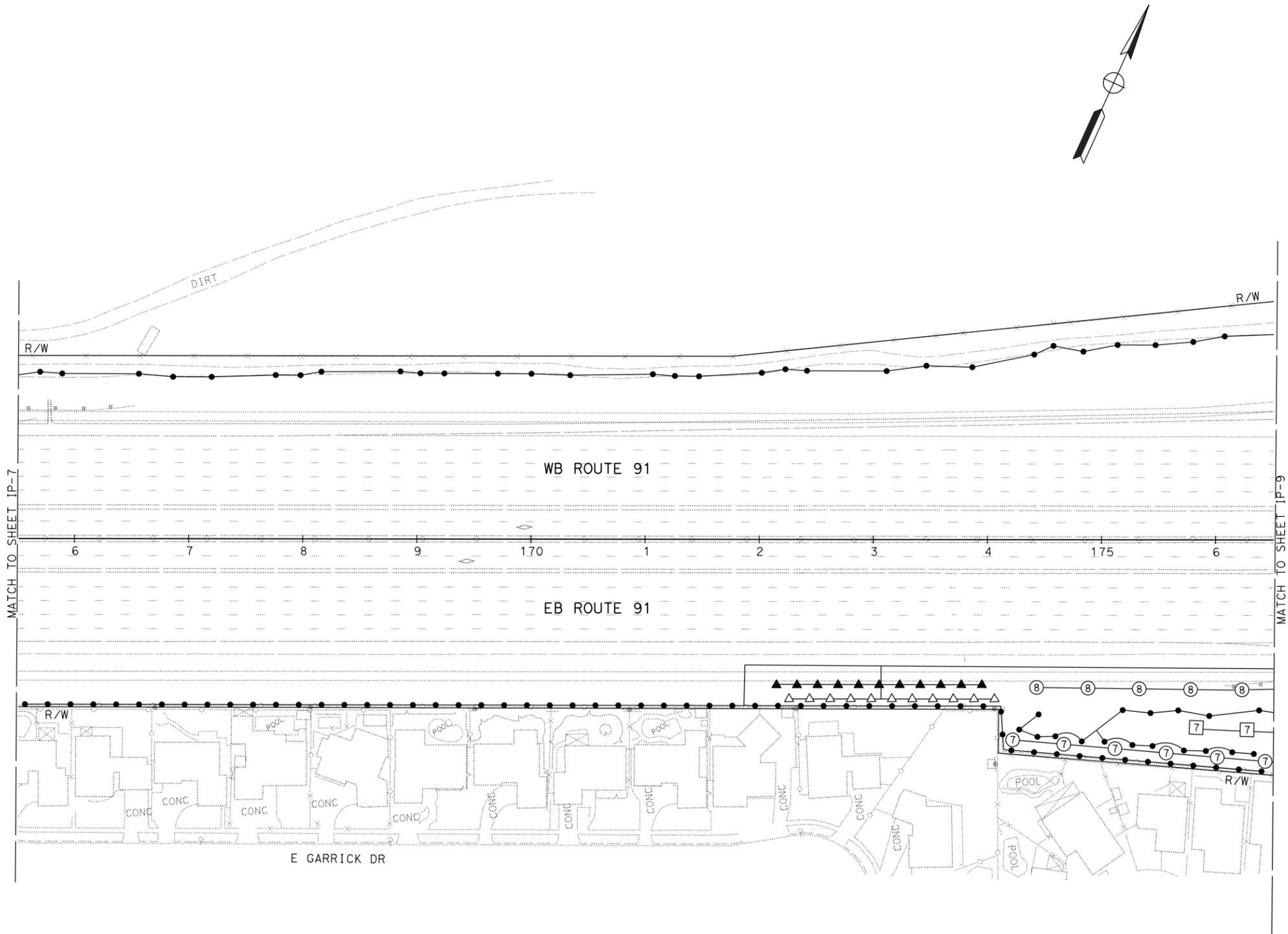
CALCULATED-DESIGNED BY
 CHECKED BY

LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

NOTE:

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



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	11	69

Mong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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Mong Sun
 Signature
 12-31-14
 03-18-13
 Date
 STATE OF CALIFORNIA

APPROVED FOR IRRIGATION WORK ONLY

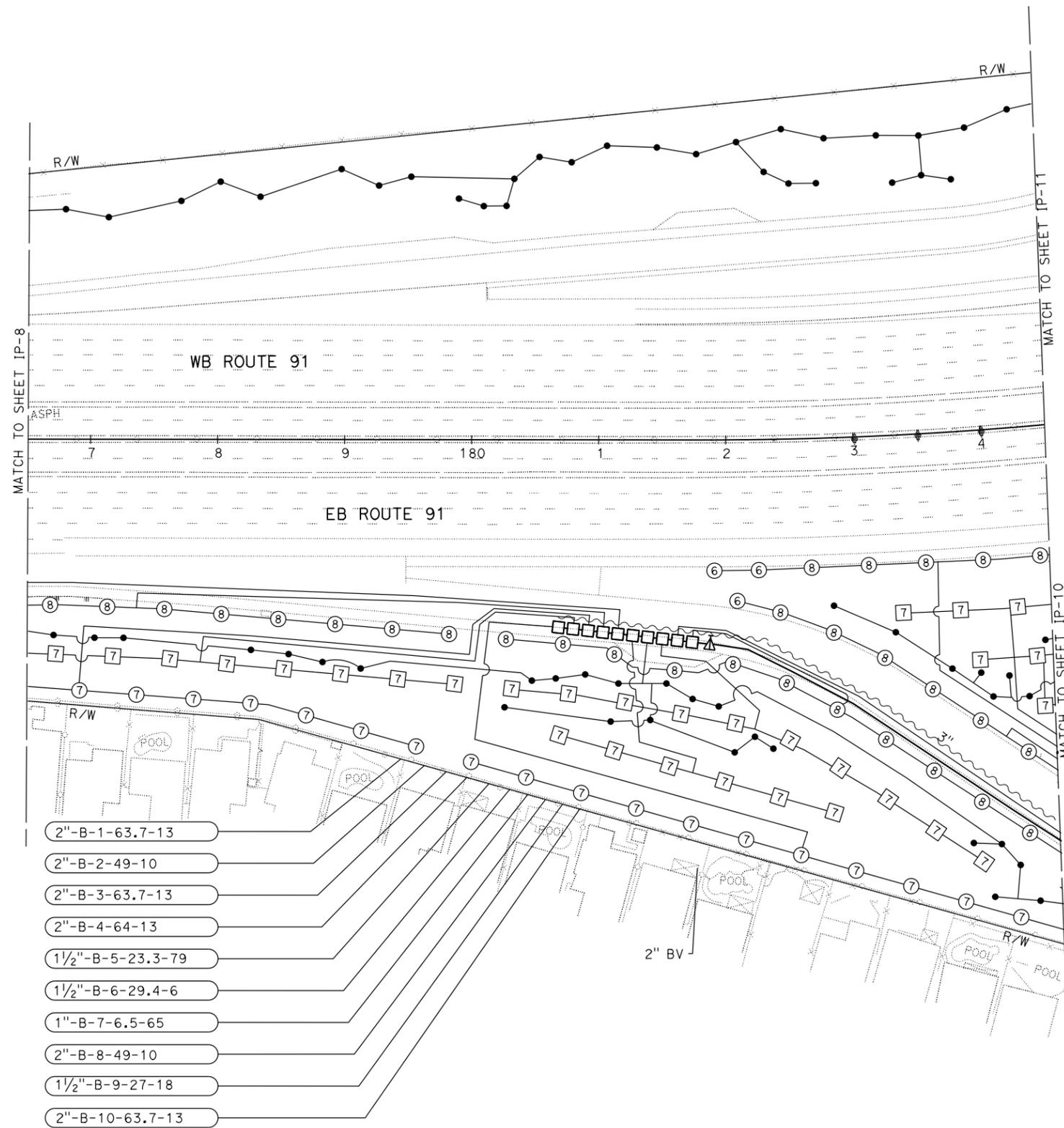
IRRIGATION PLAN
 SCALE: 1" = 50'
IP-8

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	12	69

<i>Manf Sun</i>	
LICENSED LANDSCAPE ARCHITECT	
April 15, 2013	
PLANS APPROVAL DATE	
<small>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.</small>	



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



- 2"-B-1-63.7-13
- 2"-B-2-49-10
- 2"-B-3-63.7-13
- 2"-B-4-64-13
- 1 1/2"-B-5-23.3-79
- 1 1/2"-B-6-29.4-6
- 1"-B-7-6.5-65
- 2"-B-8-49-10
- 1 1/2"-B-9-27-18
- 2"-B-10-63.7-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et-Galtrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

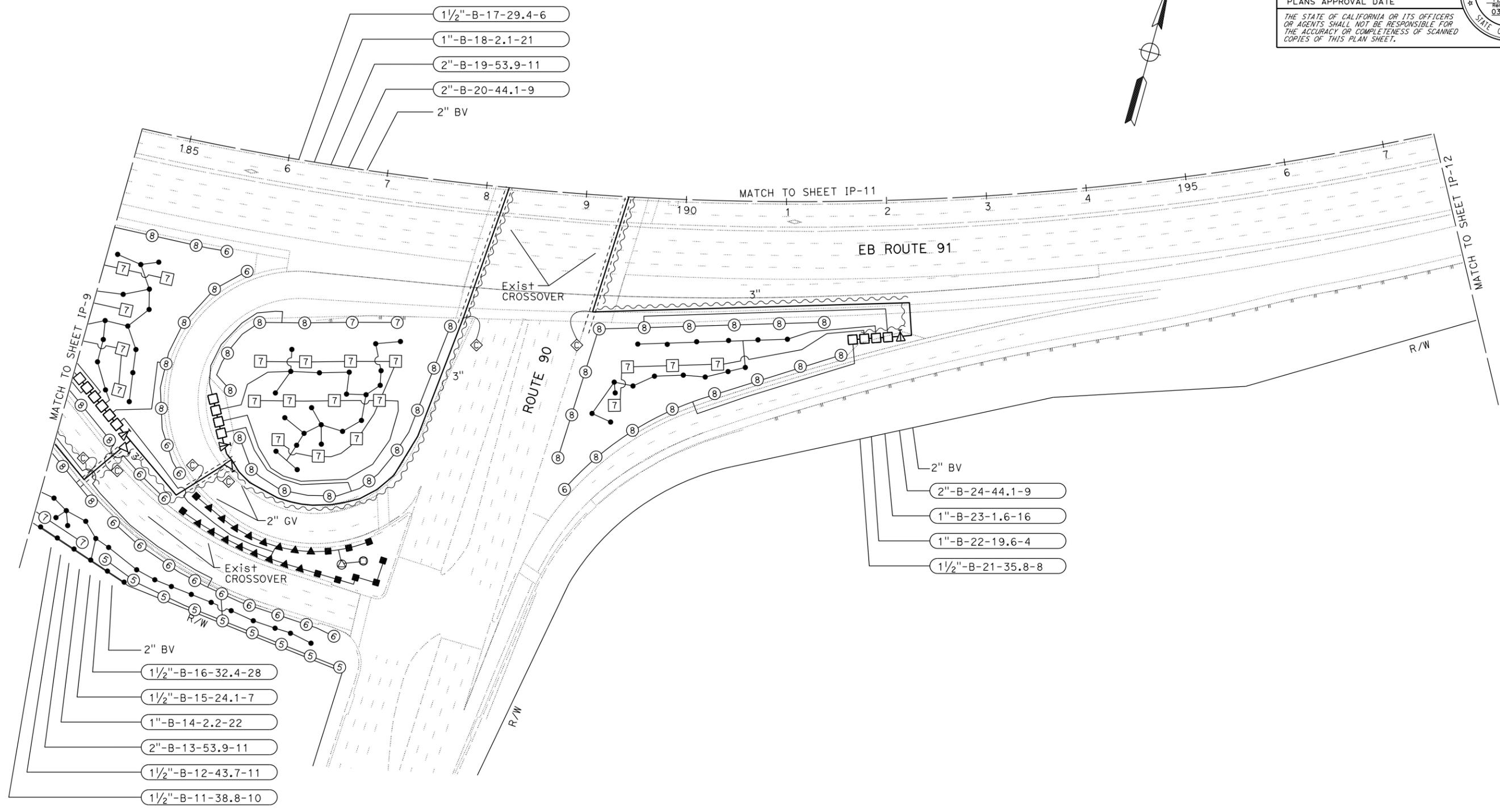
APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
SCALE: 1" = 50'
IP-9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	13	69

Monf Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON
 CHECKED BY: I-HONG SUN
 CALCULATED-DESIGNED BY: LONDON MARES
 REVISED BY: DATE REVISIED:

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
IP-10
 SCALE: 1" = 50'

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

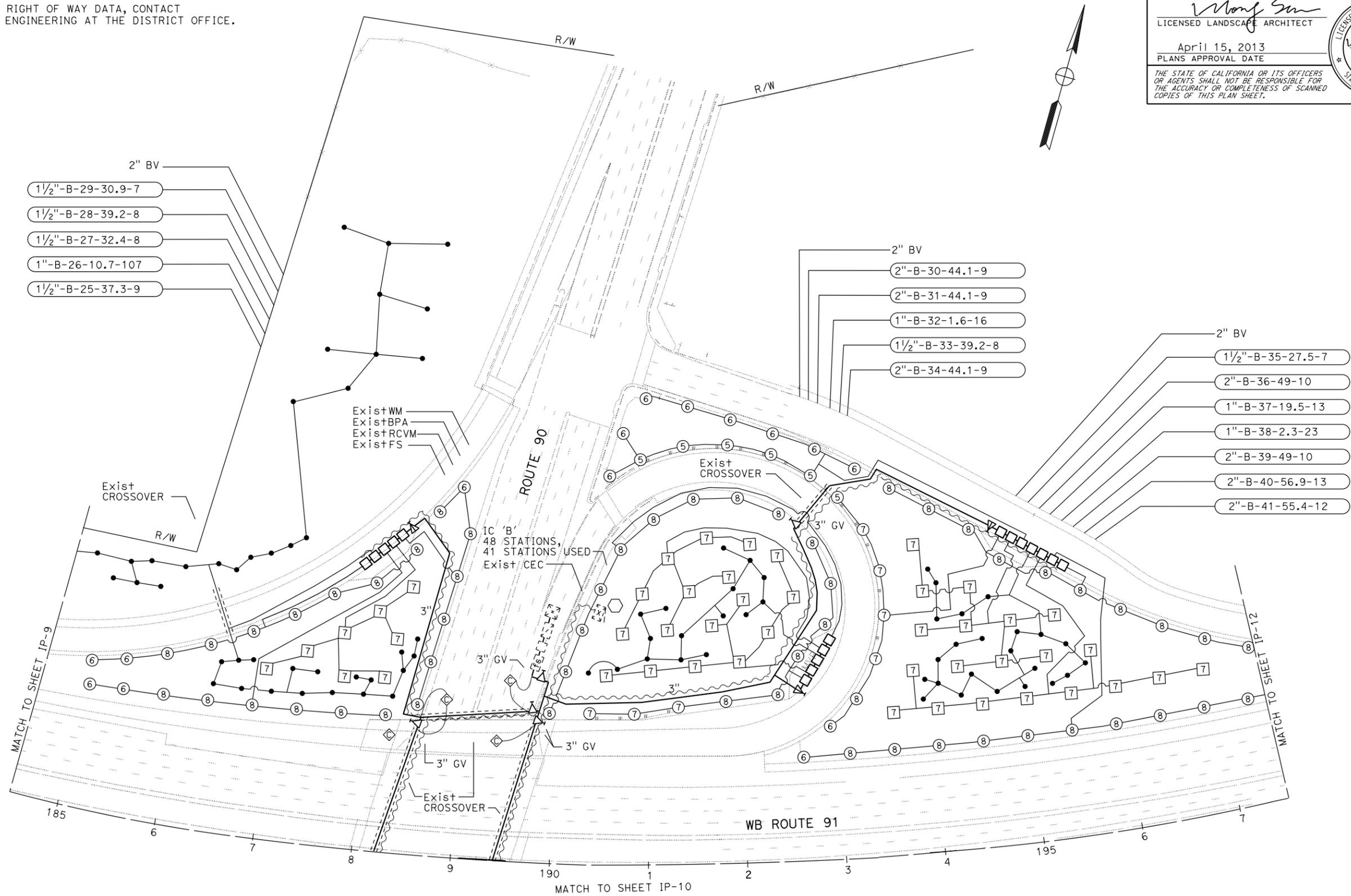
CALCULATED-DESIGNED BY
 CHECKED BY

LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

NOTE:

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



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	14	69

Monty Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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Monty Sun
 Signature
 12-31-14
 03-18-13
 Date
 STATE OF CALIFORNIA



APPROVED FOR IRRIGATION WORK ONLY

**IRRIGATION PLAN
 IP-11**

SCALE: 1" = 50'

BORDER LAST REVISED 7/2/2010

USERNAME => s133991
 DGN FILE => 1200020234sp011.dgn

RELATIVE BORDER SCALE IS IN INCHES

UNIT 3014

PROJECT NUMBER & PHASE

12000202341

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EtGaltans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

NOTE:

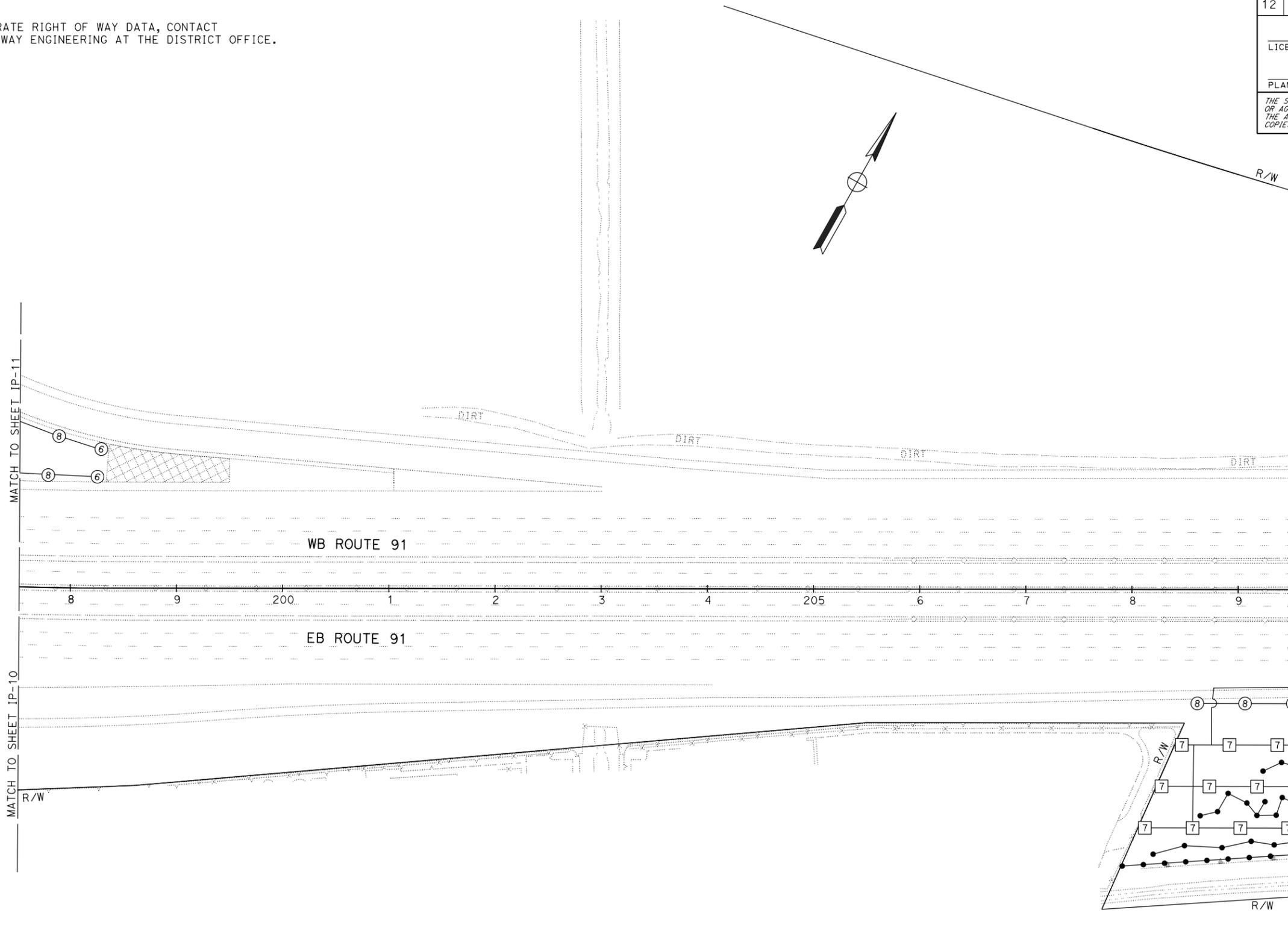
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	15	69

Manf Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 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.



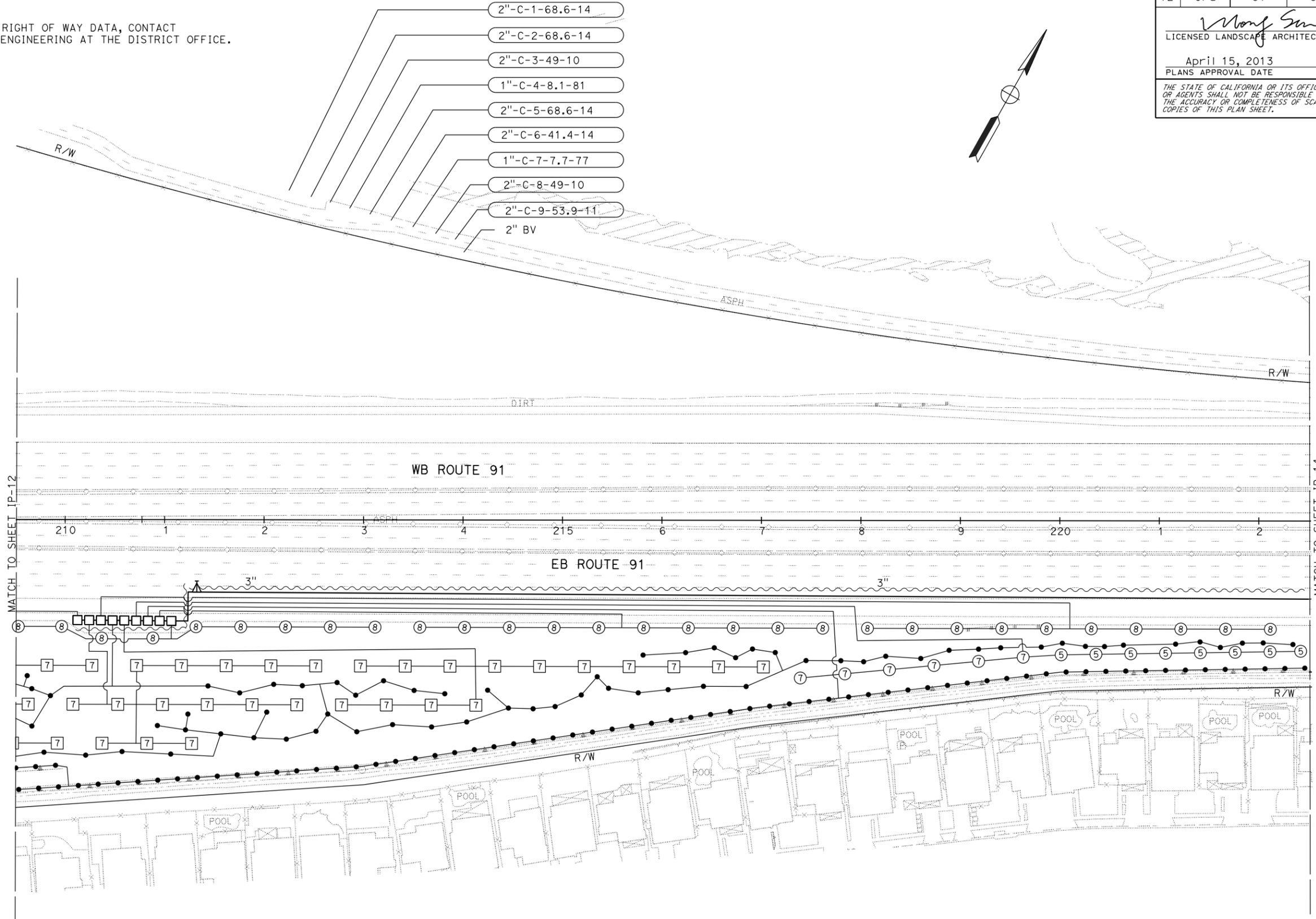
APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	16	69

Monf Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
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 CHECKED BY
 LANDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

IRRIGATION PLAN
IP-13

SCALE: 1" = 50'

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BORDER LAST REVISED 7/2/2010

USERNAME => s133991
 DGN FILE => 1200020234sp013.dgn



UNIT 3014

PROJECT NUMBER & PHASE

12000202341

LAST REVISION: DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et. Galt LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISOR BY
 DATE REVISOR

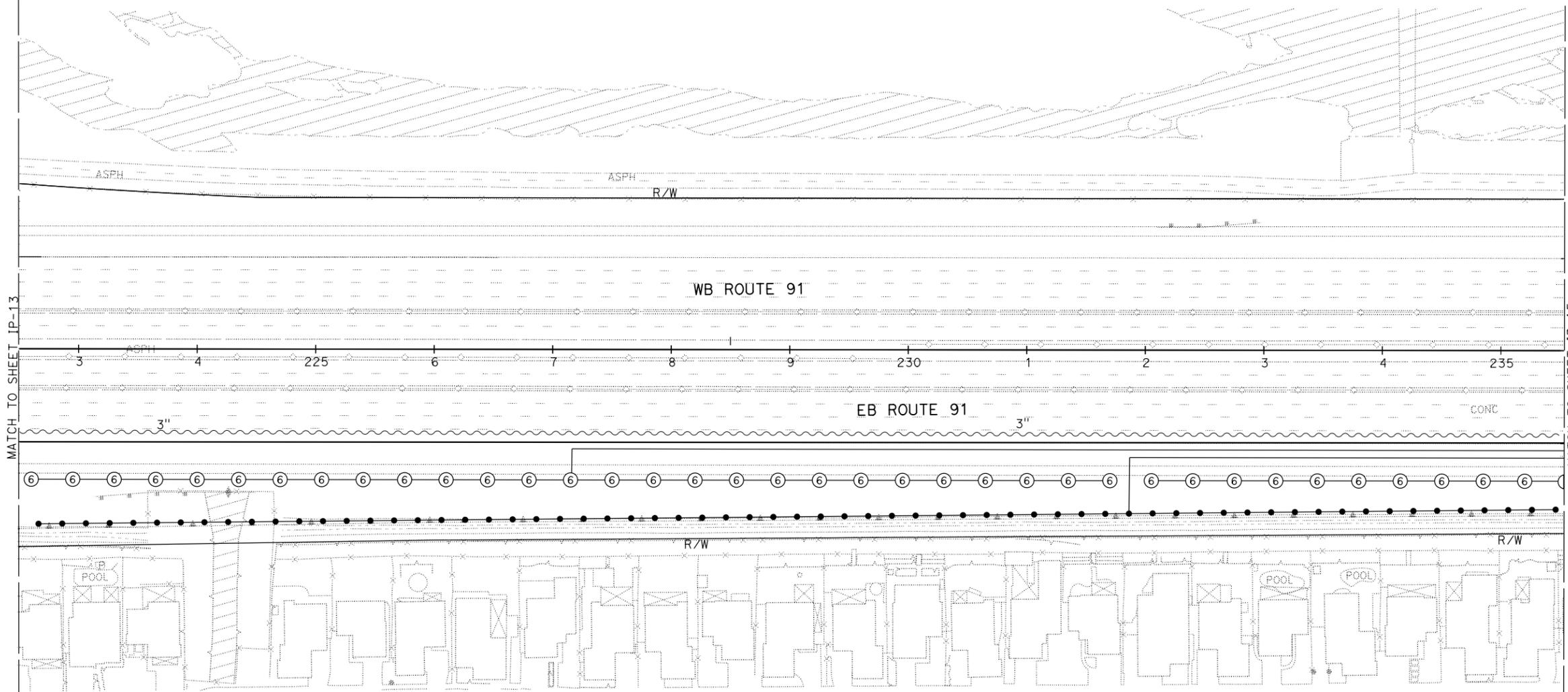
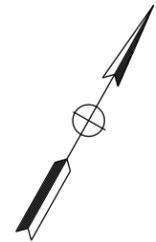
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	17	69

Manf Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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IRRIGATION PLAN
 SCALE: 1" = 50'
IP-14

LAST REVISION DATE PLOTTED => 11-APR-2013
 12-12-12 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et. Galters LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
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 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

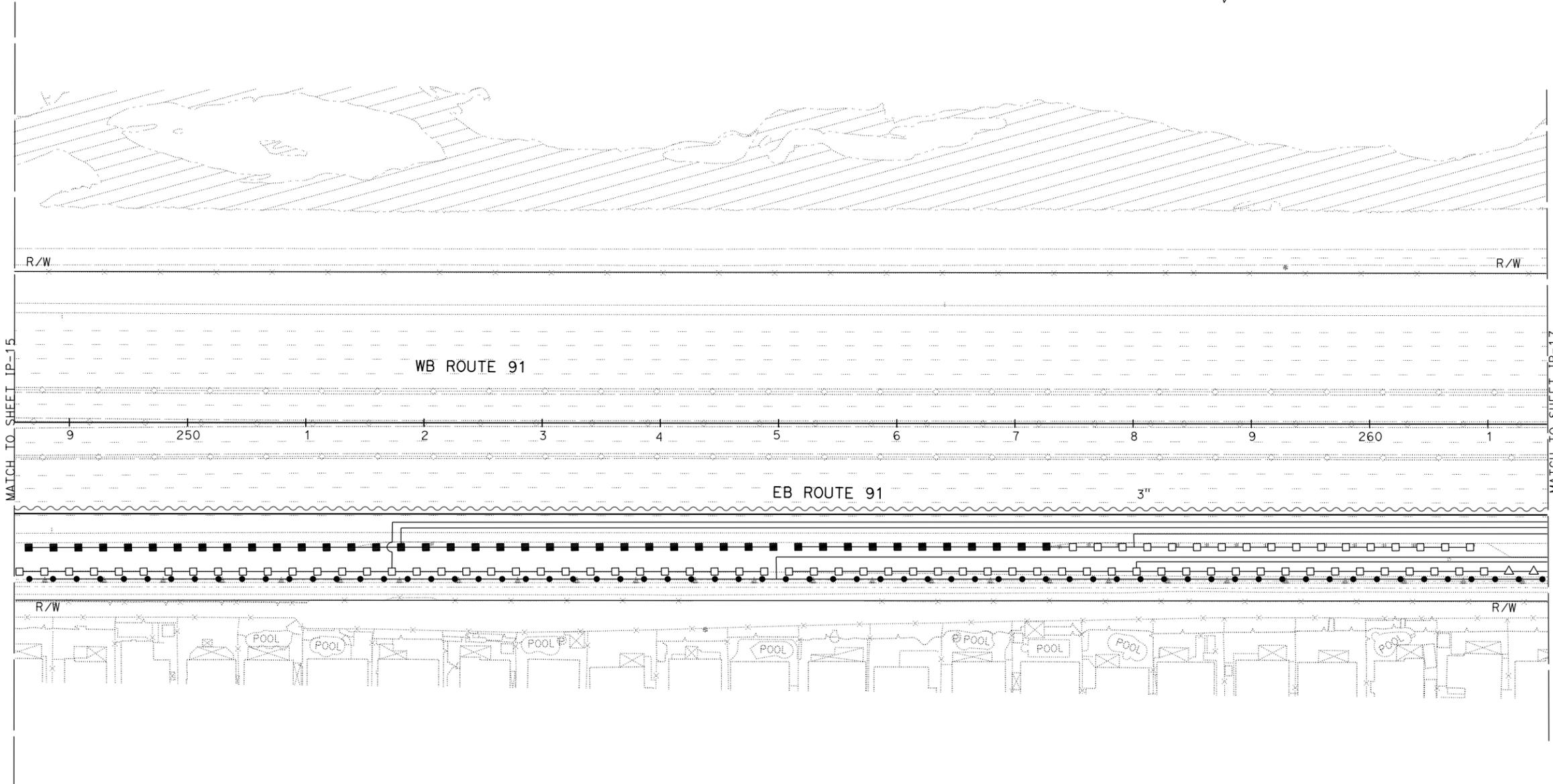
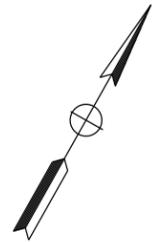
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	19	69

Monty Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
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IRRIGATION PLAN
 SCALE: 1" = 50'
IP-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EtGaltans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

CALCULATED-DESIGNED BY
 CHECKED BY

LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

NOTE:

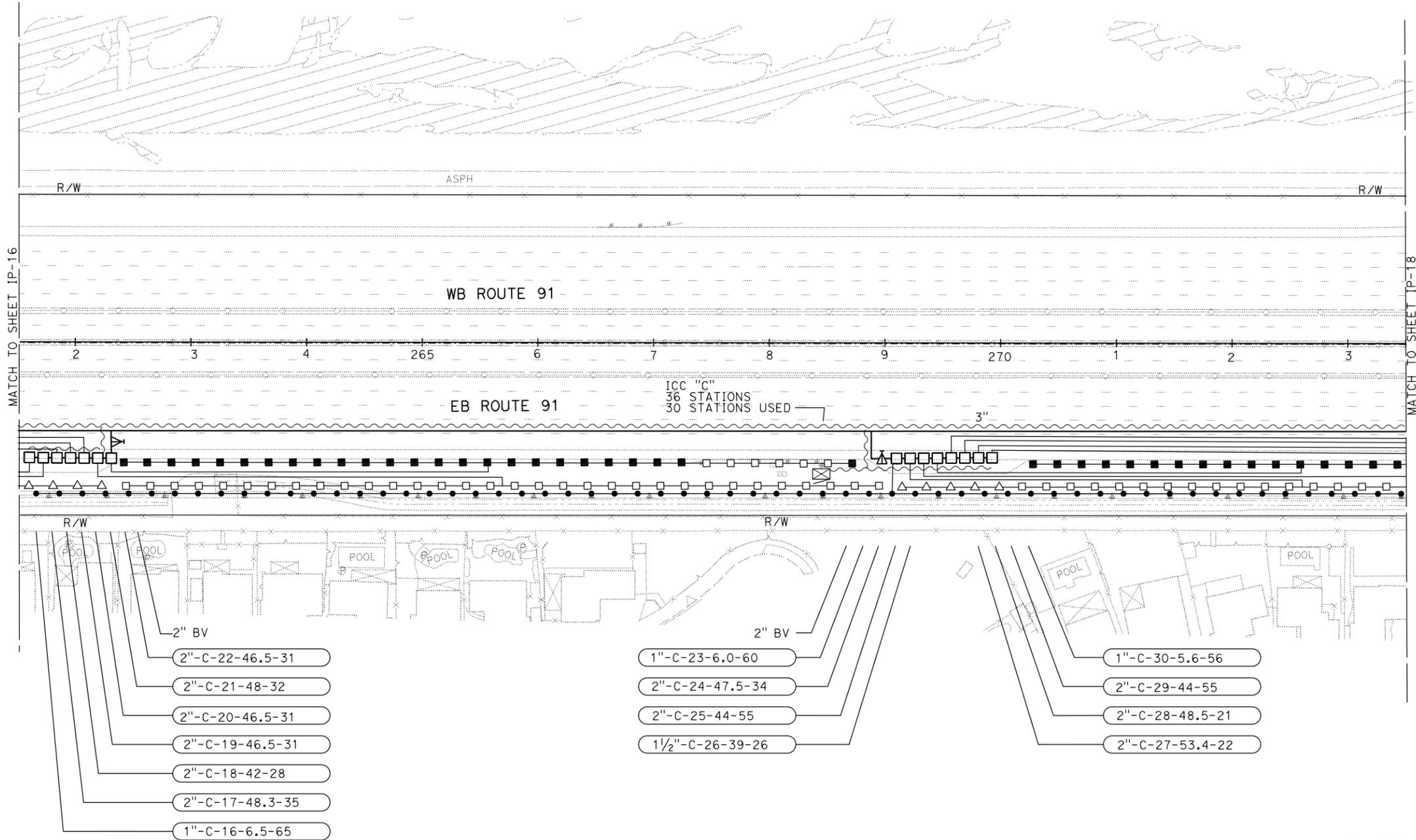
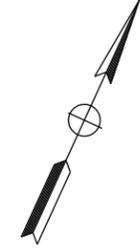
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	20	69

Monty Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
IP-17

SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EtGaltans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

CALCULATED-DESIGNED BY
 CHECKED BY

LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

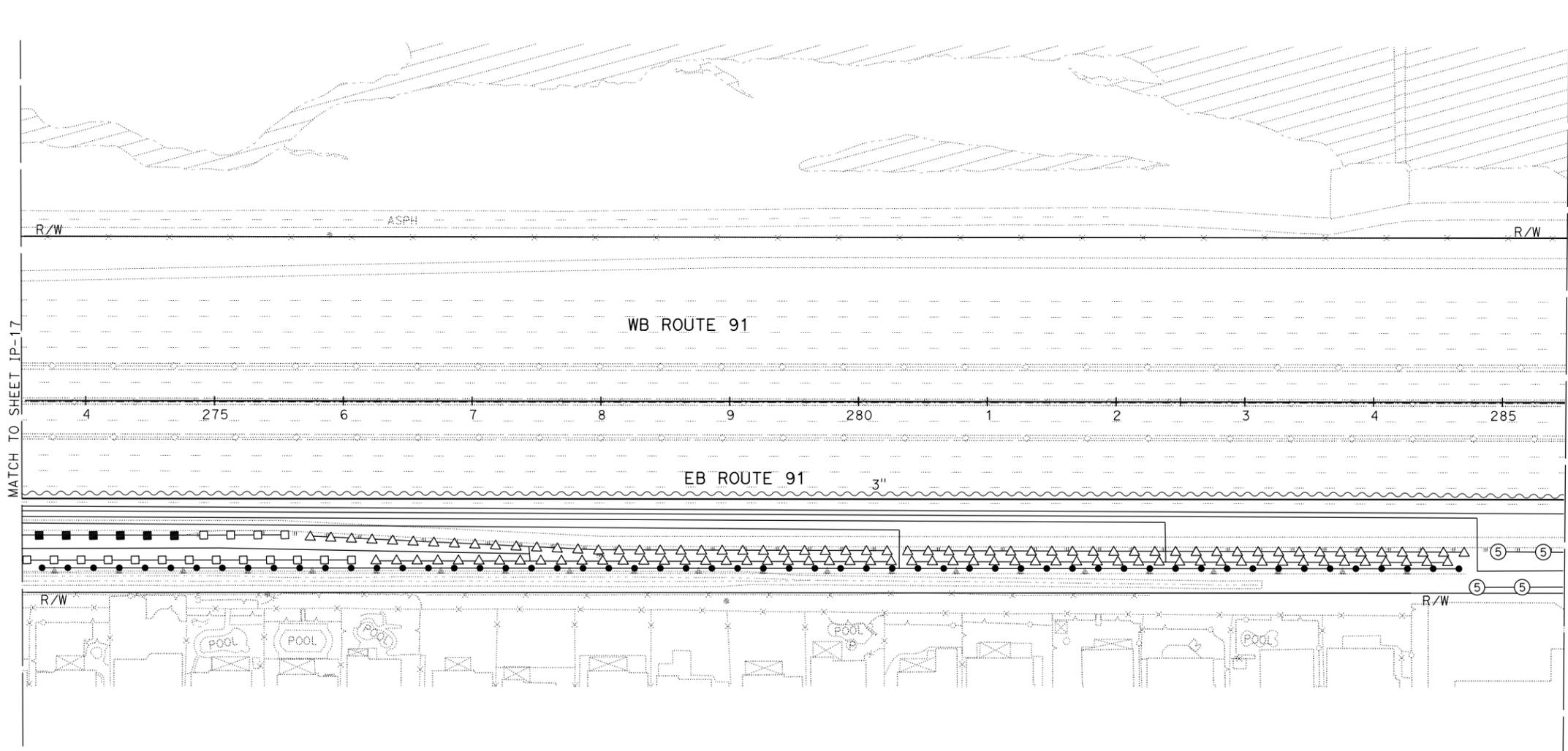
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	21	69

Manof Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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APPROVED FOR IRRIGATION WORK ONLY

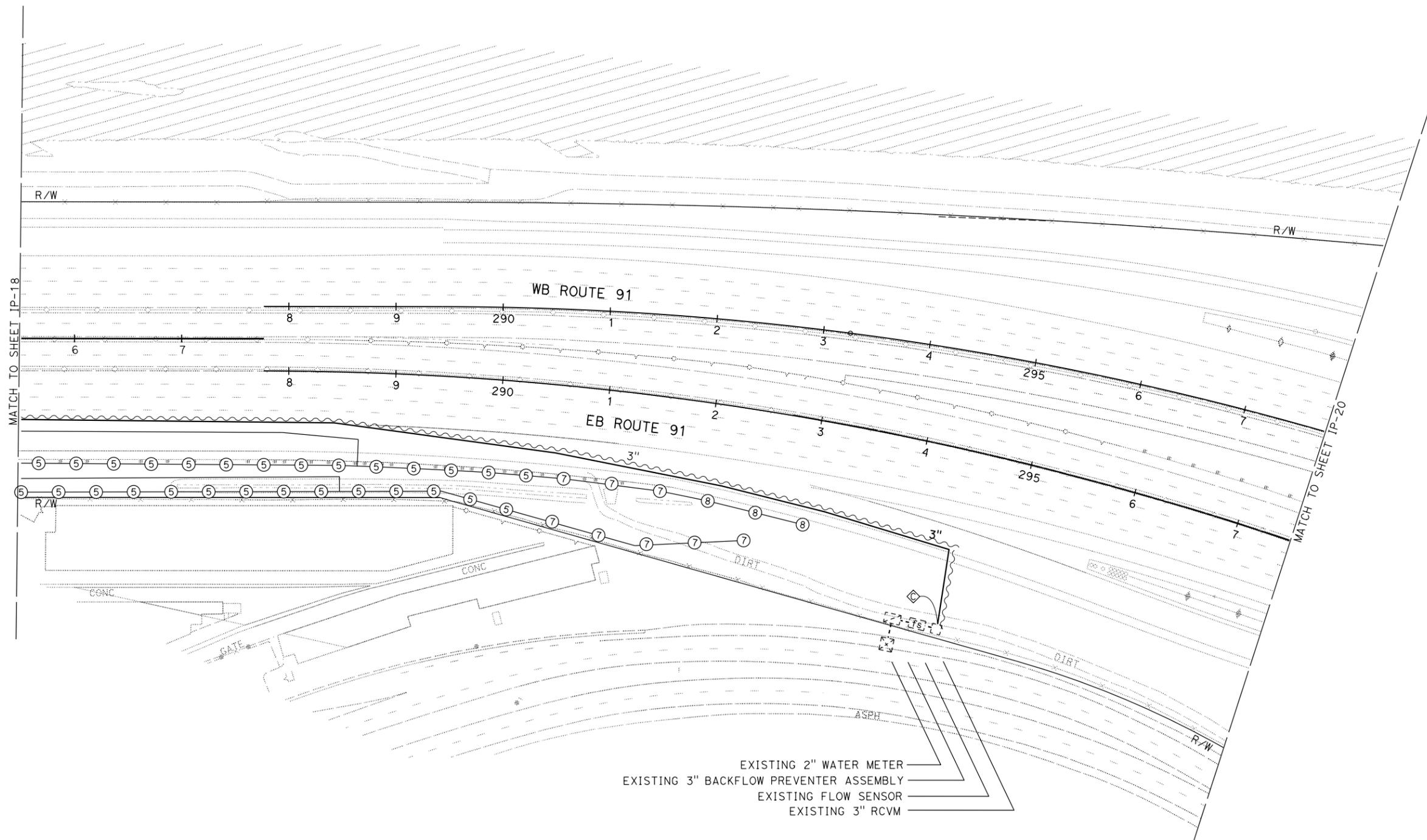
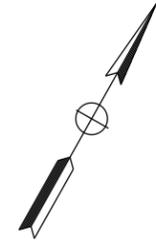
IRRIGATION PLAN
 SCALE: 1" = 50'
IP-18

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	22	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		

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



- EXISTING 2" WATER METER
- EXISTING 3" BACKFLOW PREVENTER ASSEMBLY
- EXISTING FLOW SENSOR
- EXISTING 3" RCVM

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IRRIGATION PLAN
 SCALE: 1" = 50'
IP-19

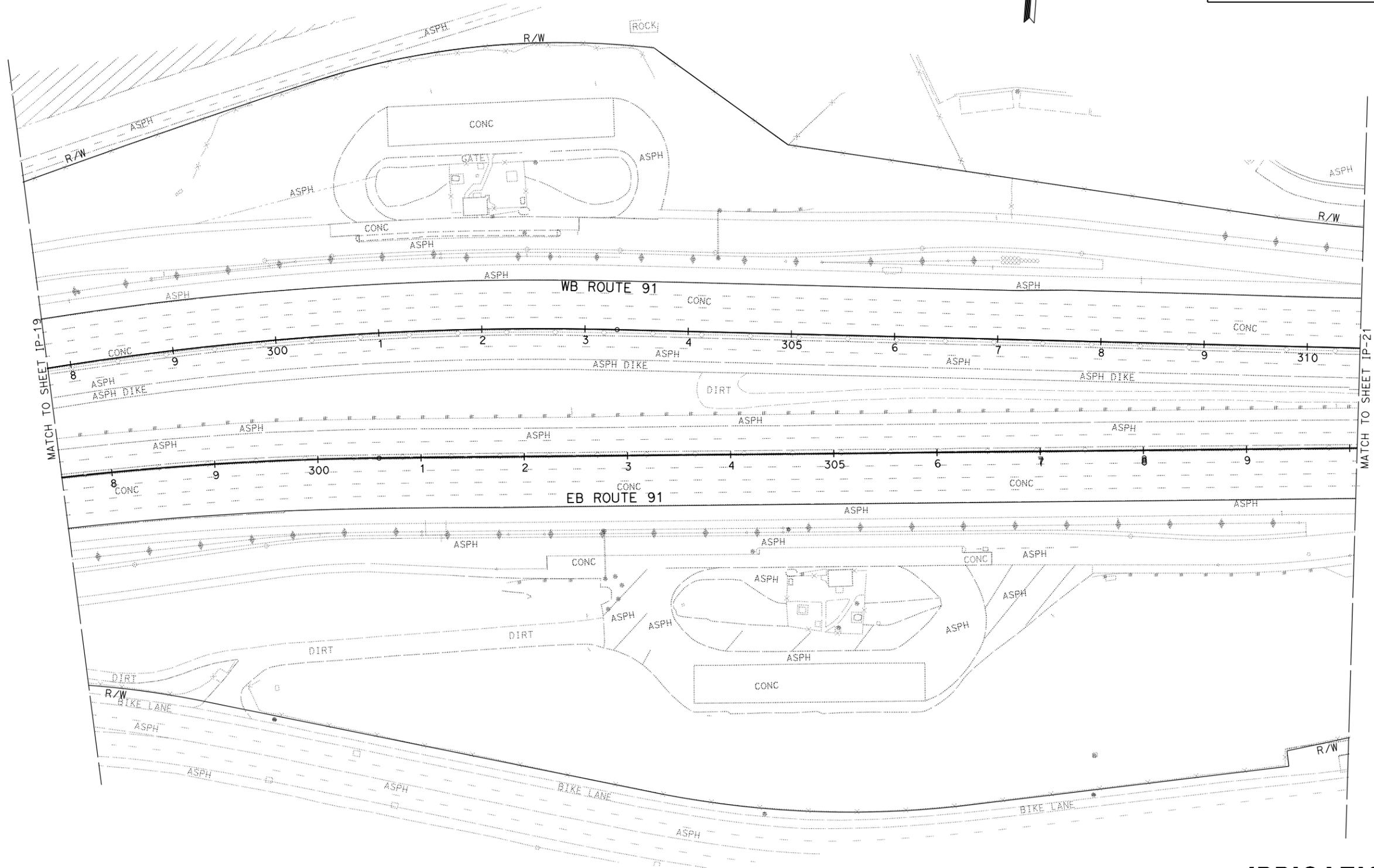
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50
 12-12-12

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	23	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		
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NOTE:
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
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 DATE REVISED

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-20

NO IRRIGATION WORK THIS SHEET

LAST REVISION DATE PLOTTED => 11-APR-2013
 12-12-12 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et. Galters LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LANDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

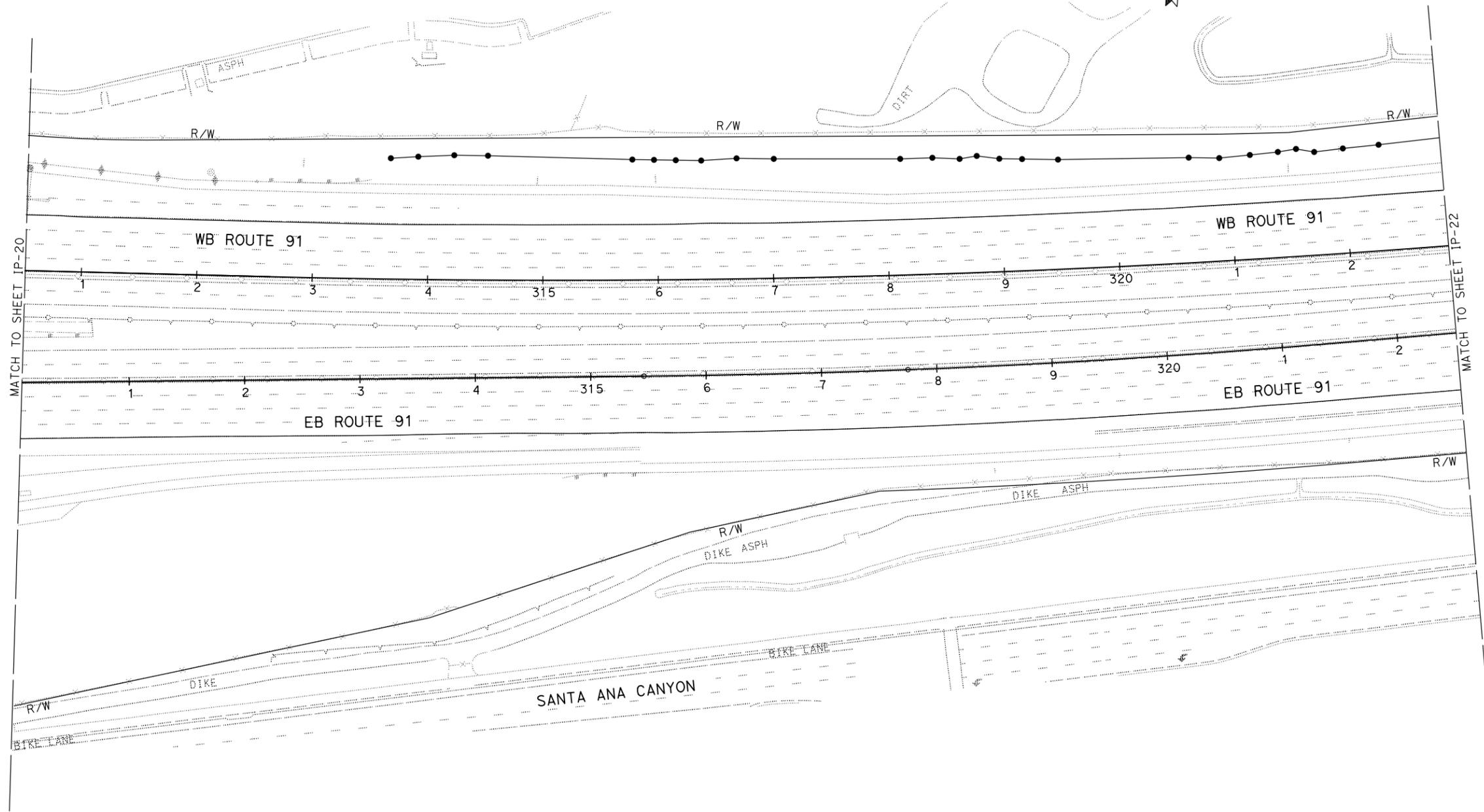
NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	24	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 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.

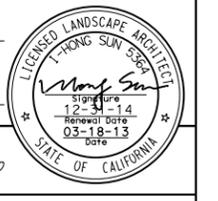


APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-21

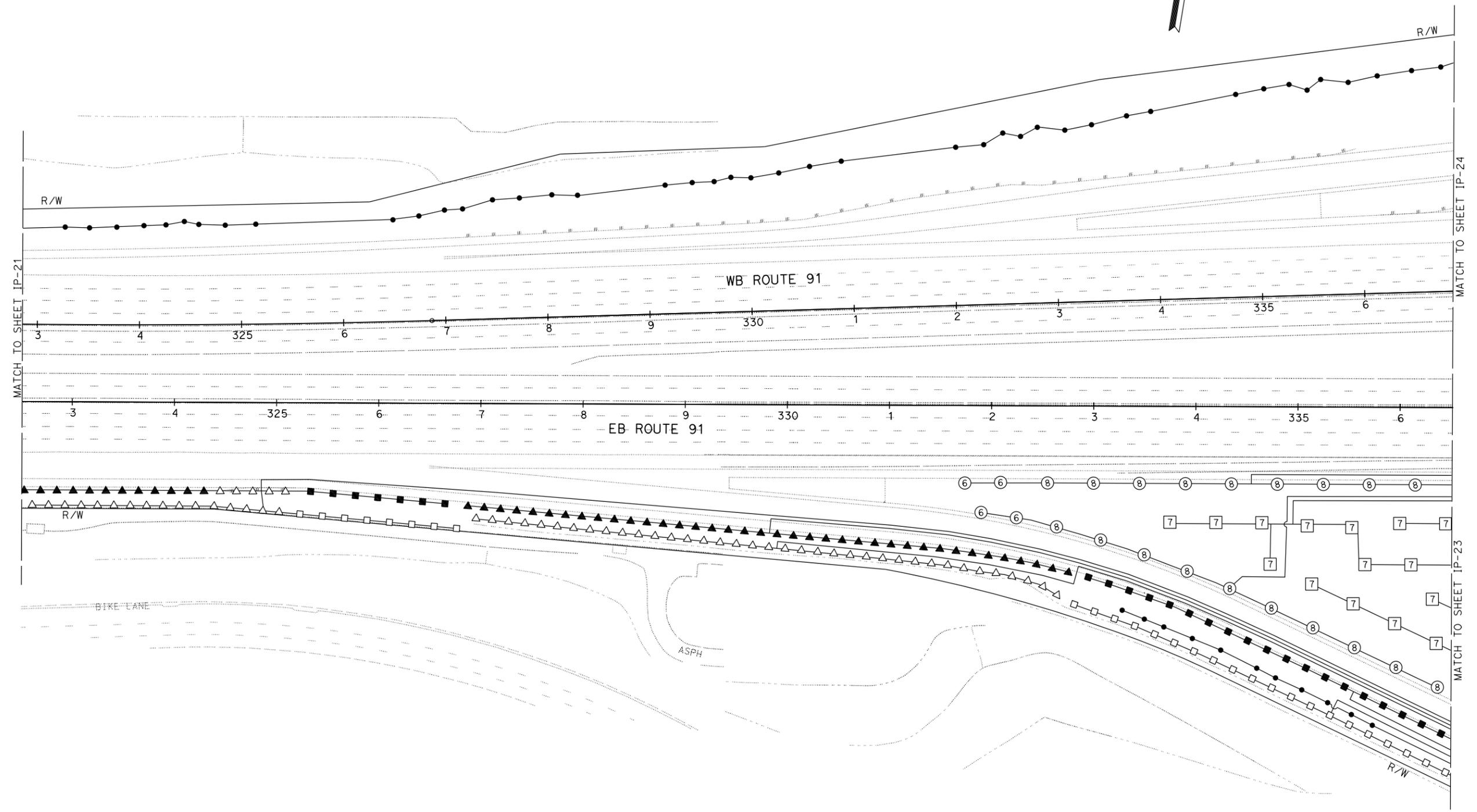
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	25	69


 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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NOTE:
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 LANDON MARES
 I-HONG SUN
 CALCULATED-DESIGNED BY
 CHECKED BY
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 REVISOR BY
 DATE REVISOR



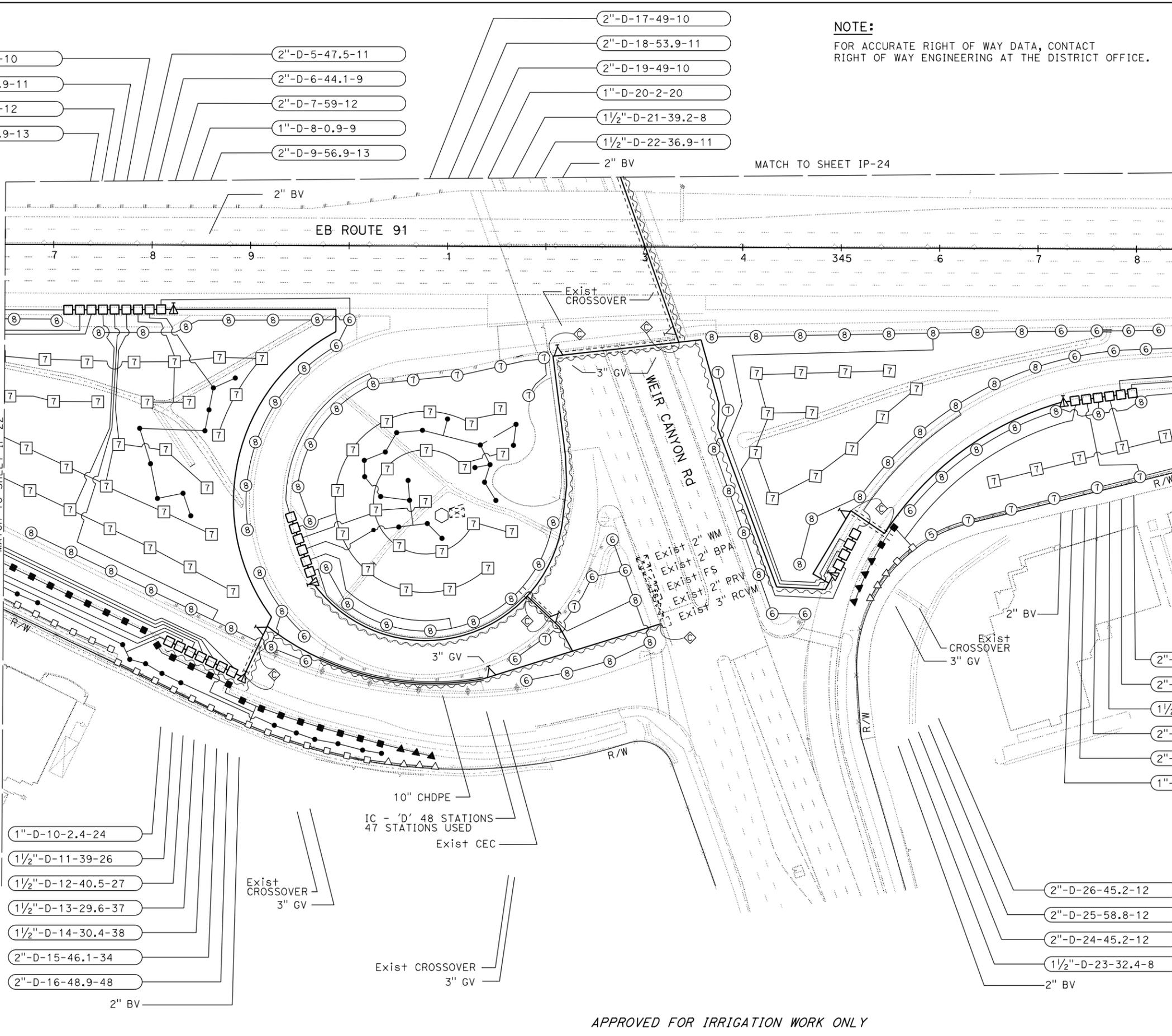
APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
IP-22
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
Eric Dickson
 SENIOR LANDSCAPE ARCHITECT
 CHECKED BY
 Landon Mares
 I-HONG SUN
 DESIGNED BY
 REVISIONS

REVISED BY	DATE	REVISION



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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	26	69

Mong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE

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- 1"-D-10-2.4-24
- 1 1/2"-D-11-39-26
- 1 1/2"-D-12-40.5-27
- 1 1/2"-D-13-29.6-37
- 1 1/2"-D-14-30.4-38
- 2"-D-15-46.1-34
- 2"-D-16-48.9-48

- 2"-D-32-49-10
- 2"-D-31-55-14
- 1 1/2"-D-30-34.3-7
- 2"-D-29-45.6-10
- 2"-D-28-50.5-11
- 1"-D-27-11.6-11

APPROVED FOR IRRIGATION WORK ONLY

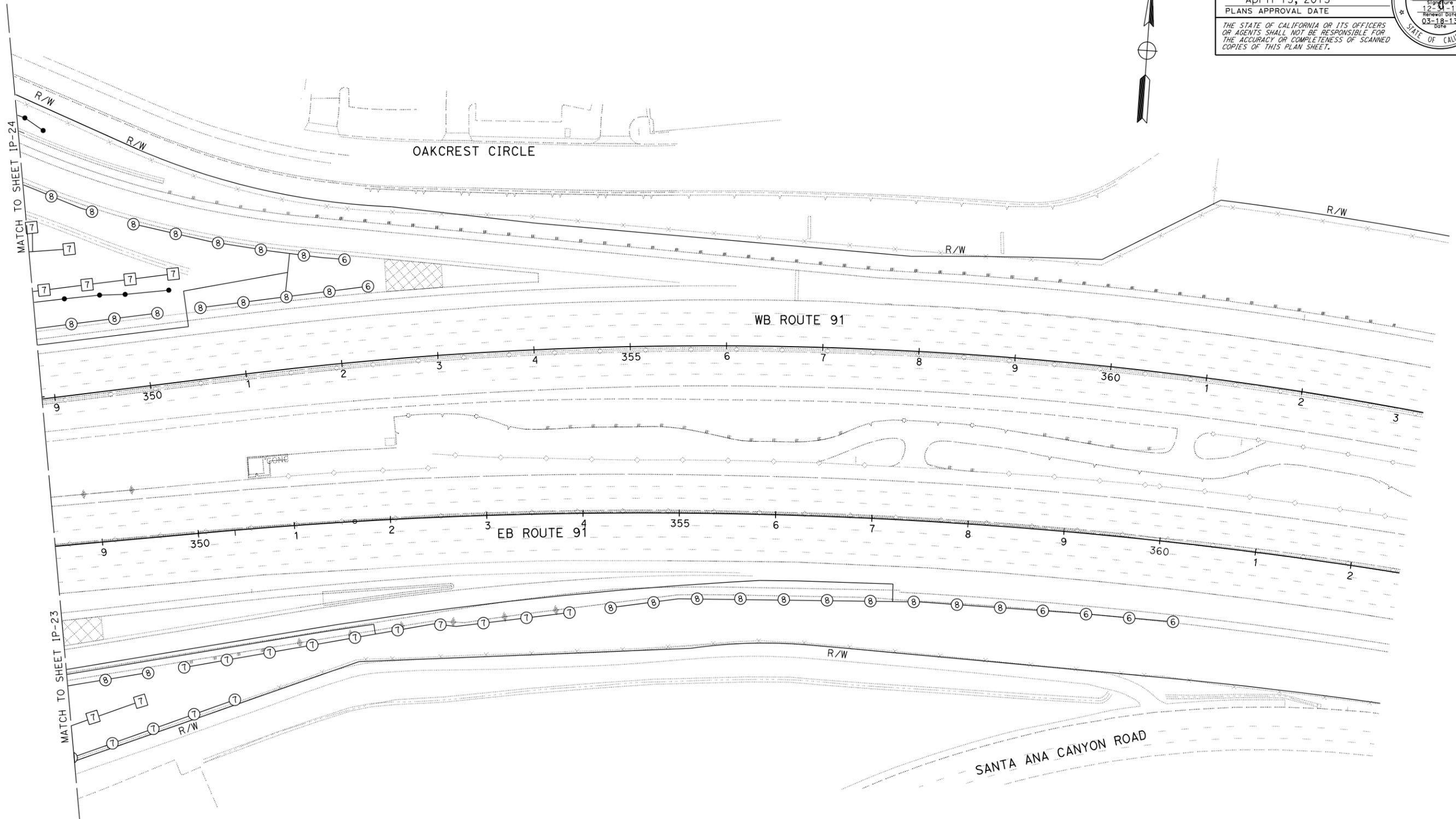
IRRIGATION PLAN
IP-23
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	28	69

Manf Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT ERIC DICKSON
 CALCULATED-DESIGNED BY CHECKED BY
 LANDON MARES I-HONG SUN
 REVISED BY DATE REVISED
 BORDER LAST REVISED 7/2/2010

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'
IP-25

LAST REVISION 12-12-12 DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Eric Gilman LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT ERIC DICKSON
 LONDON MARES I-HONG SUN
 CALCULATED-DESIGNED BY CHECKED BY
 REVISED BY DATE REVISED

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	30	69

Monty Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE

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SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER (B)																																							SUBTOTALS	UNIT	DESCRIPTION			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39						
PLASTIC PIPE SUPPLY LINE SCH 40	1"	LF	200	200	200	200	1700	200	2175	200	525	200	200	225	375	625	200	475	200	575	275	175	200	100	500	200	225	3950	225	250	200	200	300	550	275	200	175	300	475	700	225	18375	LF	1"		
	1 1/4"	LF	200	200	200	200	850	50		200	50	200	200	175	50		50	25	50		200	175	150	225		200	150		100	50	100	175	100		50	200	100	100	275	150	5200	LF	1 1/4"			
	1 1/2"	LF	100	50	100	100				50	600	100	150	75	75		100	225	150			50										50										50	2075	LF	1 1/2"	
	2"	LF	100		100	100		150				100	50	75							300	175	200				300	150		250	150	100	25	75		300	375	200	100				3375	LF	2"	
	2 1/2"	LF	450	375	500	400				125			175	200		125																											200	2550	LF	2 1/2"
	3"	LF																																												LF
RCV	1"	EA							1							1			1				1	1									1					1	1			9	EA	1"		
	1 1/2"	EA					1	1			1		1		1		1	1	1				1	1			1	1	1	1	1		1			1							15	EA	1 1/2"	
	2"	EA	1	1	1	1				1		1		1						1	1					1	1				1	1										1	15	EA	2"	
SPRINKLER TYPE	A-5 ⑤	EA									9																												1	5			15	EA	A-5 ⑤	
	A-5 ⑤	EA																																										EA	A-5 ⑤	
	A-6 ⑥	EA								9		3	3			3						1				2	2		1						1		8					33	EA	A-6 ⑥		
	A-7 ⑦	EA	13		13														2								2				1							4	8			35	EA	A-7 ⑦		
	A-7 ⑦	EA		10				6	10										2																		4					97	EA	A-7 ⑦		
	A-8 ⑧	EA				13					13	7	8				4		4				11	9	7		9	7		6	6	6		9	1					10	109	EA	A-8 ⑧			
	C-1 ●	EA					57		65							22			21																					23	327	EA	C-1 ●			
	B-1 Δ (⊙)	EA					11																																			12	EA	B-1 Δ (⊙)		
	B-2 ▲	EA					11																																			27	EA	B-2 ▲		
	B-3 □ (○)	EA																																									1	EA	B-3 □ (○)	
B-4 ■	EA																																									10	EA	B-4 ■		

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER (B)																																							SUBTOTALS	UNIT	DESCRIPTION			
		40	41																																											
PLASTIC PIPE SUPPLY LINE SCH 40	1"	LF	200	200																																							400	LF	1"	
	1 1/4"	LF	200	200																																								400	LF	1 1/4"
	1 1/2"	LF	100	100																																								200	LF	1 1/2"
	2"	LF	100	50																																								150	LF	2"
	2 1/2"	LF	250	50																																								300	LF	2 1/2"
	3"	LF																																											LF	3"
RCV	1"	EA																																										EA	1"	
	1 1/2"	EA																																										EA	1 1/2"	
	2"	EA	1	1																																							2	EA	2"	
SPRINKLER TYPE	A-5 ⑤	EA																																									EA	A-5 ⑤		
	A-5 ⑤	EA																																									EA	A-5 ⑤		
	A-6 ⑥	EA	2	1																																						3	EA	A-6 ⑥		
	A-7 ⑦	EA																																									EA	A-7 ⑦		
	A-7 ⑦	EA																																									EA	A-7 ⑦		
	A-8 ⑧	EA	11	11																																						22	EA	A-8 ⑧		
	C-1 ●	EA																																								EA	C-1 ●			
	B-1 Δ (⊙)	EA																																									EA	B-1 Δ (⊙)		
	B-2 ▲	EA																																									EA	B-2 ▲		
	B-3 □ (○)	EA																																										EA	B-3 □ (○)	
B-4 ■	EA																																										EA	B-4 ■		

IRRIGATION QUANTITIES IQ-2

DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
Eric Dickson
 SENIOR LANDSCAPE ARCHITECT
 LONDON MARES
 I-HONG SUN
 CHECKED BY
 CALCULATED-DESIGNED BY
 REVISOR BY
 DATE REVISOR

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	31	69


 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE



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SUBTOTALS PER VALVE ON LATERAL SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER (C)																														SUBTOTALS	UNIT	DESCRIPTION		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
PLASTIC PIPE SUPPLY LINE SCH 40	1"	LF	400	350	200	2575	275	300	2350	200	200	1550	425	2550	425	425	350	1975	350	425	425	425	425	425	1225	400	775	350	300	325	850	2175	23425	LF	1"	
	1 1/4"	LF	150	225	200		200	175		200	200		475		475	150	350		400	250	250	250	250	250		250	125	200	250	250	25		5450	LF	1 1/4"	
	1 1/2"	LF	75	50	50		50	50		50	75		50		100	125	400	50	50	75	50					75	25		50	50			1050	LF	1 1/2"	
	2"	LF	50				75	950					775		1725	250	100		75		1050	1100	375	350			375	825	350	200	175	1300	10100	LF	2"	
	2 1/2"	LF	200	150	1000		400			500	25							400											1950	1950				6575	LF	2 1/2"
	3"	LF																																	LF	3"
RCV	1"	EA				1			1			1		1				1						1							1	7	EA	1"		
	1 1/2"	EA										1		1		1																5	EA	1 1/2"		
	2"	EA	1	1	1		1	1		1	1							1	1	1	1	1	1		1	1		1	1	1	18	EA	2"			
SPRINKLER TYPE	A-5 ⑤	EA					8																					16	16			40	EA	A-5 ⑤		
	A-5 ⑤	EA																															EA	A-5 ⑤		
	A-6 ⑥	EA										27		27															3	5			54	EA	A-6 ⑥	
	A-7 ⑦	EA						6																								14	EA	A-7 ⑦		
	A-7 ⑦	EA	14	14			14																									42	EA	A-7 ⑦		
	A-8 ⑧	EA			10					10	11																	3				34	EA	A-8 ⑧		
	C-1 ●	EA				81			77			65		65			65						60							56	469	EA	C-1 ●			
	B-1 Δ (⊙)	EA															6								5	55				55	121	EA	B-1 Δ (⊙)			
	B-2 ▲	EA																	7													7	EA	B-2 ▲		
	B-3 □ (○)	EA															28		29	17			31	32	6		29		4			176	EA	B-3 □ (○)		
B-4 ■	EA														19						11	31			25						108	EA	B-4 ■			

DESCRIPTION	UNIT	VALVE OR ASSEMBLY NUMBER																														SUBTOTALS	UNIT	DESCRIPTION
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30			
PLASTIC PIPE SUPPLY LINE SCH 40	1"	LF																															LF	1"
	1 1/4"	LF																															LF	1 1/4"
	1 1/2"	LF																															LF	1 1/2"
	2"	LF																															LF	2"
	2 1/2"	LF																															LF	2 1/2"
	3"	LF																															LF	3"
RCV	1"	EA																														EA	1"	
	1 1/2"	EA																														EA	1 1/2"	
	2"	EA																														EA	2"	
SPRINKLER TYPE	A-5 ⑤	EA																														EA	A-5 ⑤	
	A-5 ⑤	EA																														EA	A-5 ⑤	
	A-6 ⑥	EA																														EA	A-6 ⑥	
	A-7 ⑦	EA																														EA	A-7 ⑦	
	A-7 ⑦	EA																														EA	A-7 ⑦	
	A-8 ⑧	EA																														EA	A-8 ⑧	
	C-1 ●	EA																													EA	C-1 ●		
	B-1 Δ (⊙)	EA																													EA	B-1 Δ (⊙)		
	B-2 ▲	EA																													EA	B-2 ▲		
	B-3 □ (○)	EA																													EA	B-3 □ (○)		
B-4 ■	EA																													EA	B-4 ■			

IRRIGATION QUANTITIES IQ-3

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	34	69

Manf Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE

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SUBTOTALS PER PLAN SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE

DESCRIPTION	UNIT	IP SHEET NUMBER (IP)																								SUBTOTALS
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
IRRIGATION CONTROLLER																										
BPA	EA																									
36 STATION	EA			1														1								2
48 STATION	EA										1												1			2
CEC																										
SINGLE	EA																	1								1
DOUBLE	EA																									
RCV																										
1"	EA	2	4	3				2		1	4	4		2		2		3					4	3		34
1 1/2"	EA	1	5	7		2				3	6	6				4		1				8	6			49
2"	EA		1	5		2		3		6	4	7		7				11				20	12			78
BV																										
2"	EA	1	2	3		1		1		1	3	3		1		1		2				5	3			27
GV																										
3"			1	3							2	5										6	1			18
FAU																										
FV																										
WSP																										
2"						45																				45
SCH 40																										
1"	LF																									
1 1/4"	LF																									
1 1/2"	LF																									
2"	LF																									
2 1/2"	LF																									
3"	LF	475	425	1450	1075	1250	1300	350		450	1425	1600		1275	1325	1425	1325	1550	1200	975			3025	1300		23200
CHDPE																										
10"	LF																						200			200

TOTAL QUANTITIES

TOTALS	UNIT	DESCRIPTION
2	EA	36 STATION
2	EA	48 STATION
1	EA	SINGLE
		DOUBLE
34	EA	1"
49	EA	1 1/2"
78	EA	2"
27	EA	2"
18	EA	3"
45	LF	2"
83250	LF	1"
21525	LF	1 1/4"
8950	LF	1 1/2"
28525	LF	2"
13100	LF	2 1/2"
23200	LF	3"
200	LF	10"
128	EA	A-5 (5)
21	EA	A-5 (5)
264	EA	A-6 (6)
96	EA	A-7 (7)
355	EA	A-7 (7)
380	EA	A-8 (8)
1225	EA	C-1 ●
253 (36)	EA	B-1 Δ (⊙)
98	EA	B-2 ▲
269 (7)	EA	B-3 □ (○)
187	EA	B-4 ■

IRRIGATION QUANTITIES

IQ-6



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	35	69


 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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ABBREVIATIONS

AMEND — amendment	Max — maximum
B & B — balled and burlapped	Min — minimum
Dia — diameter	NCN — no common name
EA — each	No. — number
LB — pound	Pkt — packet
Oz — ounce	PLT ESTB — plant establishment
Ft — foot/feet	Pvmt — pavement
SQFT — square feet	R/W — right of way
SQYD — square yard	SF — state furnished
CF — cubic feet	TRVD — traveled

APPLICABLE WHEN CIRCLED:

- 1 - Quantities shown are "per plant" unless shown as SQFT or SQYD application rates.
- ② - Sufficient to receive root ball.
- 3 - Does not apply to mulch areas.
- ④ - As shown on plans.
- 5 - Unless otherwise shown on plans.
- ⑥ - See detail.
- 7 - See Special Provisions.

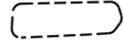
NOTE:

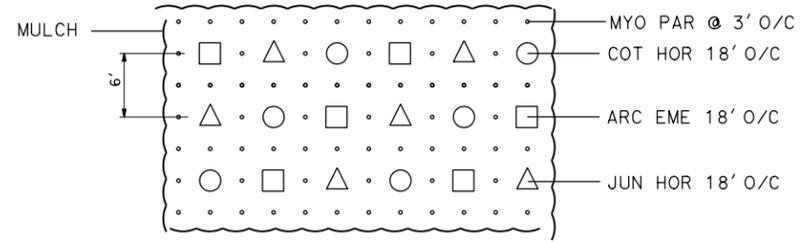
Underlined portions of botanical name indicate abbreviations used on Planting Plans.

PLANT LIST AND PLANTING SPECIFICATIONS

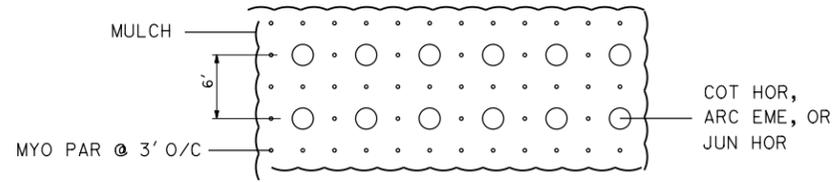
PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	IRON SULFATE	SOIL AMEND	COMMERCIAL FERTILIZER		BASIN MULCH	STAKING	PLANTING LIMITS						REMARKS	
							Dia	DEPTH				PLANTING	PLT ESTB			MINIMUM DISTANCE (Ft)			FROM CENTER (Ft)				
																TRVD WAY	PVMT	FENCE	WALL	PAVED DITCH	EARTH DITCH		
A	1		<u>ARBUS</u> <u>UNEDO</u>	STRAWBERRY TREE	NO.1	170	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	15	10	6	10	12	④	SHRUB
	2		<u>ARCTOSTAPHYLOS</u> 'EMERALD CARPET'	MANZANITA	NO.1	6550	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	6	6	6	6	8	6	SHRUB/GROUND COVER MIX WITH MYO PAR
	3		<u>COTONEASTER</u> <u>HORIZONTALIS</u>	ROCK COTONEASTER	NO.1	12315	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	6	6	6	6	8	6	SHRUB/GROUND COVER MIX WITH MYO PAR
	4		<u>HETEROMELES</u> <u>ARBUTIFOLIA</u>	TOYON	NO.1	104	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	15	10	6	10	12	④	SHRUB
	5		<u>JUNIPERUS</u> <u>HORIZONTALIS</u> 'BAR HARBOR'	BAR HARBOR JUNIPER	NO.1	2585	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	6	6	6	6	8	6	SHRUB/GROUND COVER MIX WITH MYO PAR
	6		<u>PARTHENO</u> <u>CISSUS</u> <u>TRICUSPIDATA</u>	BOSTON IVY	NO.1	696	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	15	10	6	10	12	20	VINE
	7		<u>PLUMBAGO</u> <u>AURICULATA</u>	CAPE PLUMBAGO	NO.1	150	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	6	6	6	6	8	④	SHRUB
	8		MIX OF COT HOR, ARC EME, AND JUN HOR	GROUNDCOVER MIX	NO.1	SEE PLANT No. 5, 6, 7	8	8	II	—	0.25 CF	2 Oz	2 Oz	0.50 CF	—	—	6	6	6	6	8	⑥	SHRUB/GROUND COVER MIX WITH MYO PAR
F	9		<u>DELOSPERMA</u> 'ALBA'	WHITE TRAILING ICEPLANT	FLAT	9900	②	②	—	—	—	—	—	—	—	6	6	6	6	8	2	GROUND COVER	
	10		<u>FESTUCA</u> <u>MAIREI</u>	ATLAS FESCUE	FLAT	40950	②	②	—	—	—	—	—	—	—	6	6	6	6	8	2	GROUND COVER	
	11		<u>LANTANA</u> <u>MONTEVIDENSIS</u> 'MONMA' (WHITE LIGHTNIN')	TRAILING LANTANA	FLAT	2450	②	②	—	—	—	—	—	—	—	6	6	6	6	8	2	GROUND COVER	
	12		<u>MYOPORUM</u> 'PARVIFOLIUM'	NCN	FLAT	109900	②	②	—	—	—	—	—	—	—	3	6	6	6	8	3	GROUND COVER	
U	13		<u>ALNUS</u> <u>RHOMBIFOLIA</u>	WHITE ALDER	NO.15	43	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	X	30	—	15	15	15	17	④	TREE
	14		<u>CERCIS</u> <u>OCCIDENTALIS</u>	WESTERN REDBUD	NO.15	185	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	—	—	15	15	15	15	15	④	MULTI TRUNK TREE
	15		<u>LAGERSTROEMIA</u> <u>INDICA</u> 'CHEROKEE'	CRAPE MYRTLE	NO.15	192	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	X	30	—	15	15	15	17	④	TREE
	16		<u>LIQUIDAMBAR</u> <u>STYRACIFLUA</u> 'ROTUNDILOBA'	ROUND-LOBED SWEETGUM	NO.15	51	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	X	40	—	30	25	20	22	④	TREE
	17		<u>PINUS</u> <u>CANARIENSIS</u>	CANARY ISLAND PINE	NO.15	84	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	X	40	—	20	20	20	22	④	TREE
	18		<u>PLATANUS</u> <u>RACEMOSA</u>	SYCAMORE TREE	NO.15	31	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	X	40	—	30	25	20	22	④	TREE
	19		<u>TRISTANIA</u> <u>CONFERTA</u>	BRISBANE BOX	NO.15	41	18	18	II	—	1.2 CF	4 Oz	4 Oz	2.5 CF	X	40	—	20	20	20	22	④	TREE

LEGEND

-  MULCH
-  EROSION CONTROL (BONDED FIBER MATRIX)
-  MAINTAIN EXISTING PLANTED AREAS
-  MINOR CONCRETE (TEXTURED PAVING)
-  ROADSIDE PAVING (MISCELLANEOUS AREAS)
-  EXISTING PALM TREE TO BE MAINTAINED
-  EXISTING TREE TO BE MAINTAINED



TYPICAL GROUNDCOVER MIX DETAIL FOR PLANT No. 8
NO SCALE



TYPICAL GROUNDCOVER MIX DETAIL FOR PLANT No. 5-7
NO SCALE

PLANT LIST PL-1



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT ERIC DICKSON
 CALCULATED-DESIGNED BY CHECKED BY LONDON MARES I-HONG SUN
 REVISED BY DATE REVISED

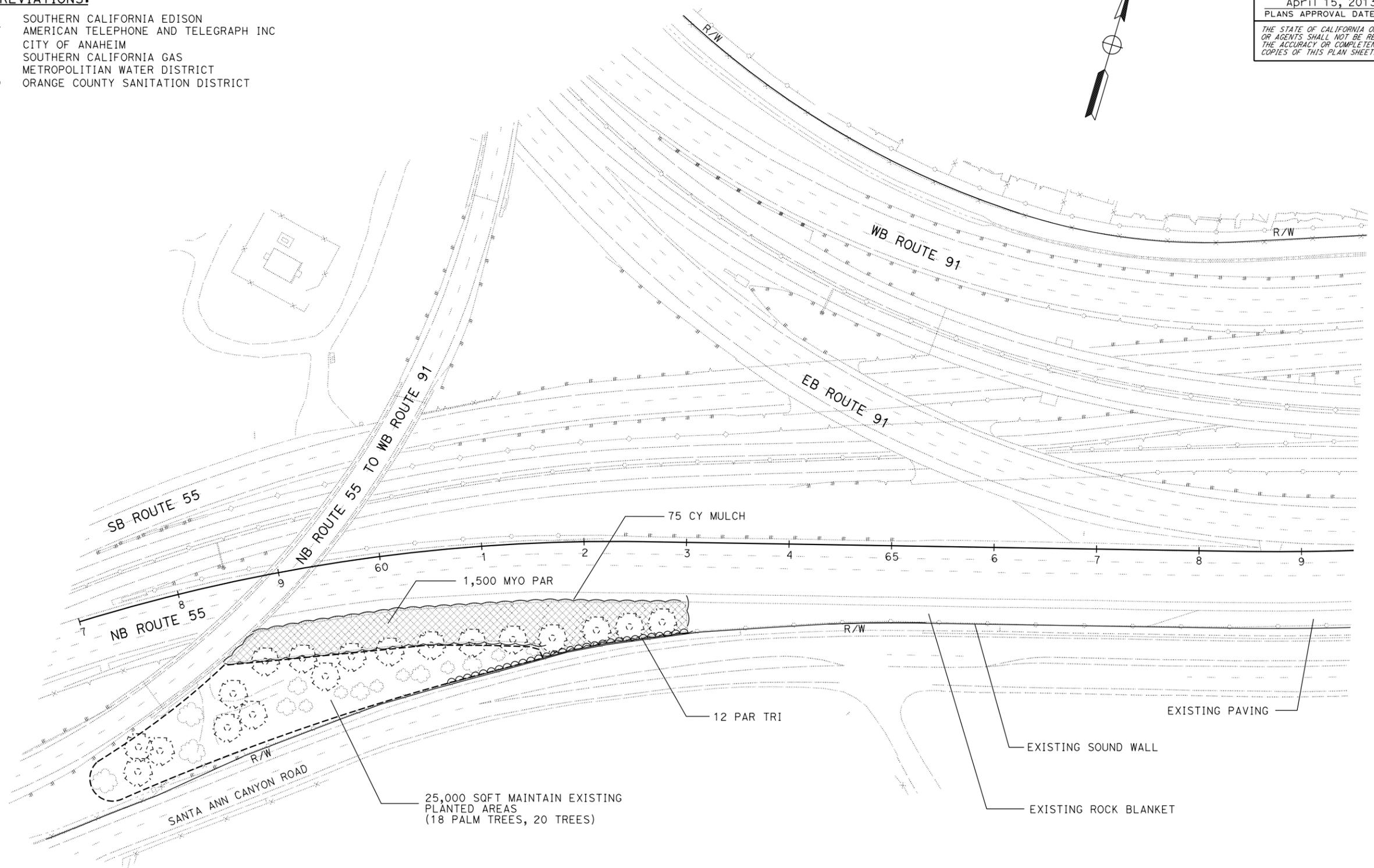
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

ABBREVIATIONS:
 SCE SOUTHERN CALIFORNIA EDISON
 AT&T AMERICAN TELEPHONE AND TELEGRAPH INC
 COA CITY OF ANAHEIM
 SCG SOUTHERN CALIFORNIA GAS
 MWD METROPOLITIAN WATER DISTRICT
 OCSO ORANGE COUNTY SANITATION DISTRICT

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	36	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE

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LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

APPROVED FOR PLANTING WORK ONLY

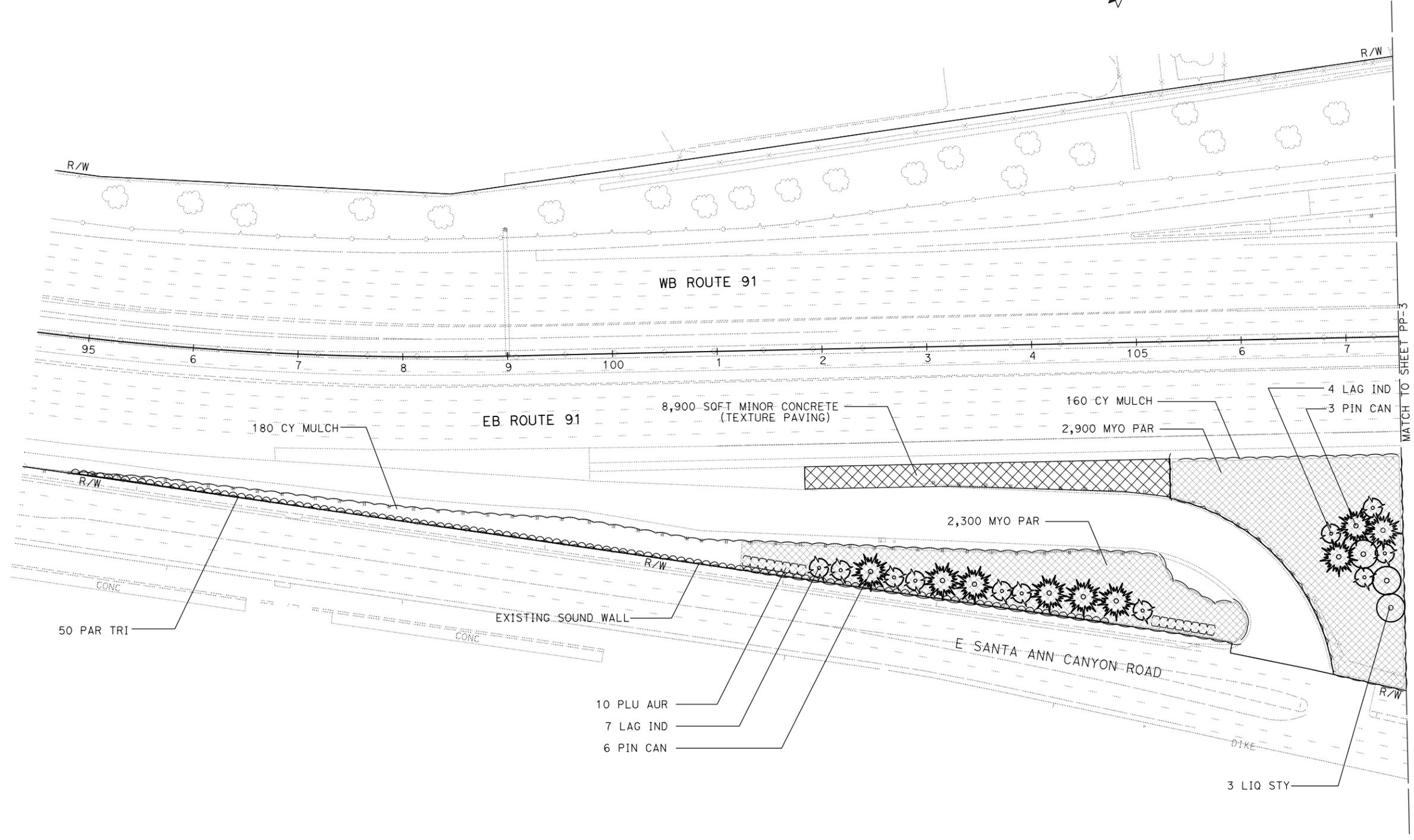
PLANTING PLAN
 SCALE: 1" = 50'
PP-1

LAST REVISION DATE PLOTTED => 11-APR-2013
 12-12-12 TIME PLOTTED => 10:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	37	69

Monf Sun
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MATCH TO SHEET PP-3

LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS
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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
PP-2
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON
 CALCULATED-DESIGNED BY: CHECKED BY: LONDON MARES
 I-HONG SUN
 REVISED BY: DATE REVISED:

LAST REVISION:
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

CALCULATED-DESIGNED BY
 CHECKED BY

LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

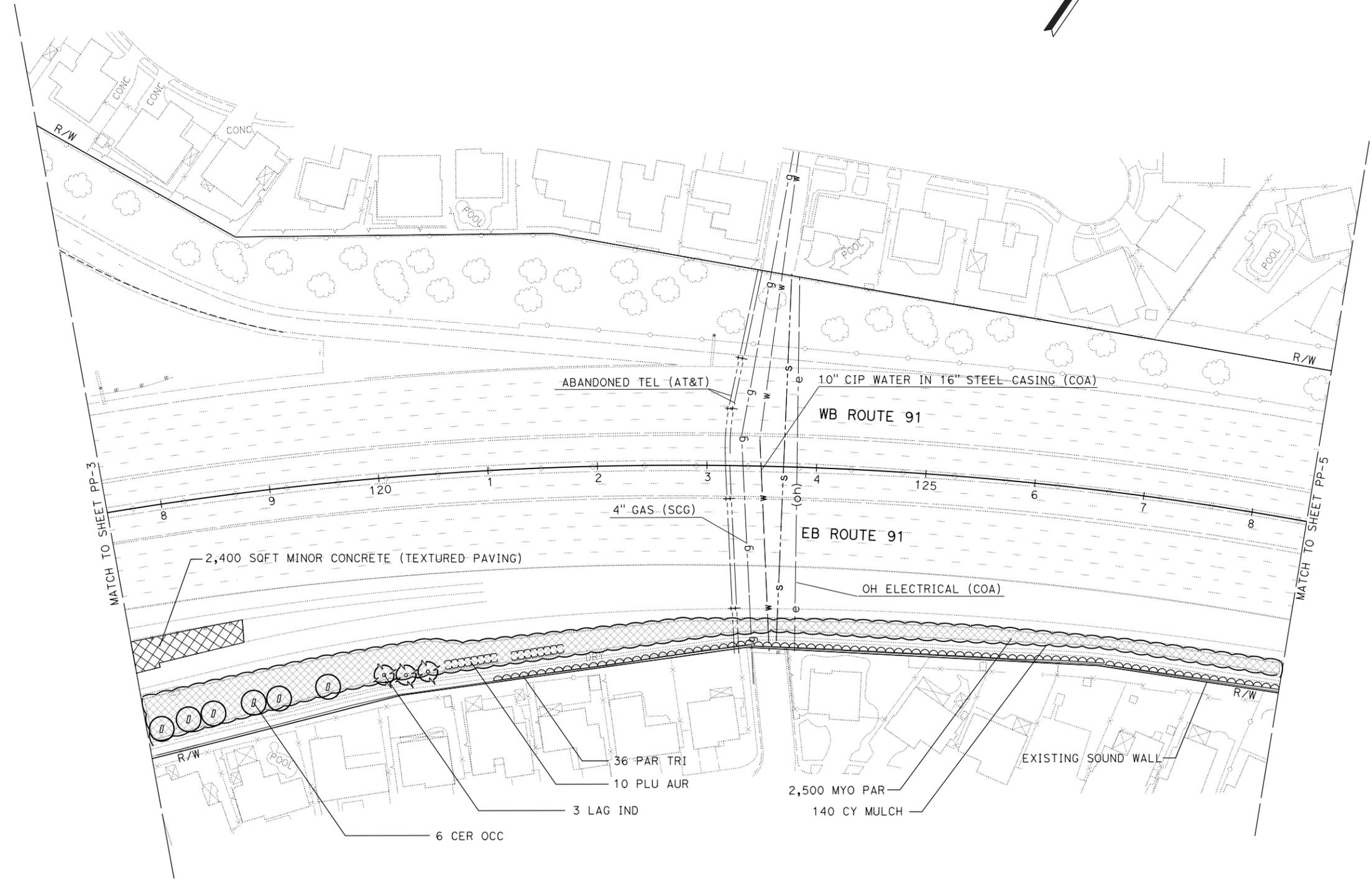
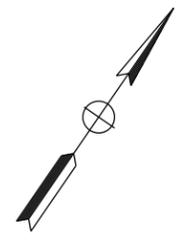
NOTE:
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	39	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
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PLANTING PLAN
 SCALE: 1" = 50'
PP-4

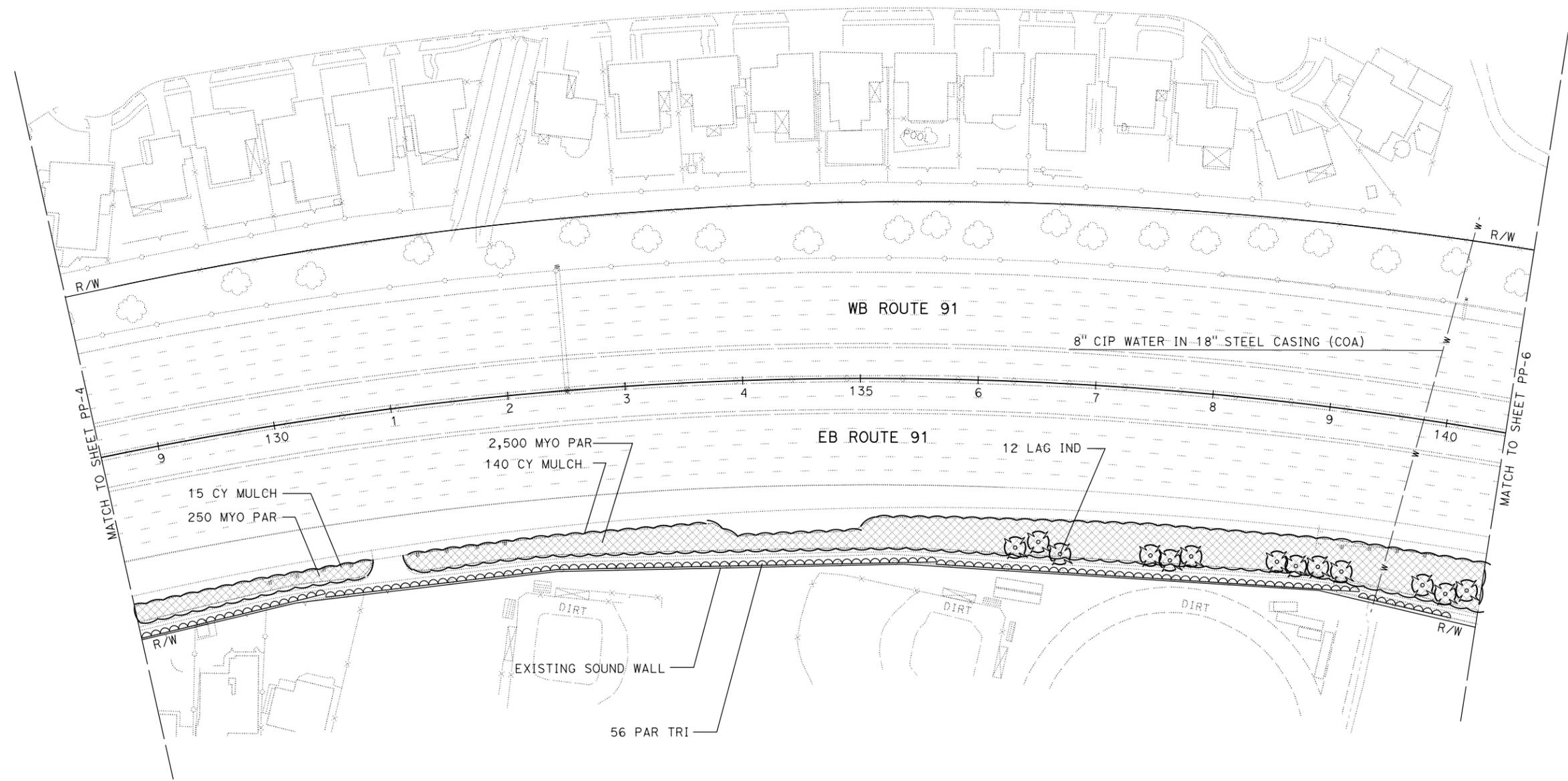
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	40	69

<i>Monf Sun</i> LICENSED LANDSCAPE ARCHITECT	
April 15, 2013 PLANS APPROVAL DATE	
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NOTE:
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED



LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
SCALE: 1" = 50'
PP-5

LAST REVISION: 12-12-12 DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

LANDON MARES
 I-HONG SUN

REVISOR BY
 DATE REVISOR

REVISOR BY
 DATE REVISOR

NOTE:

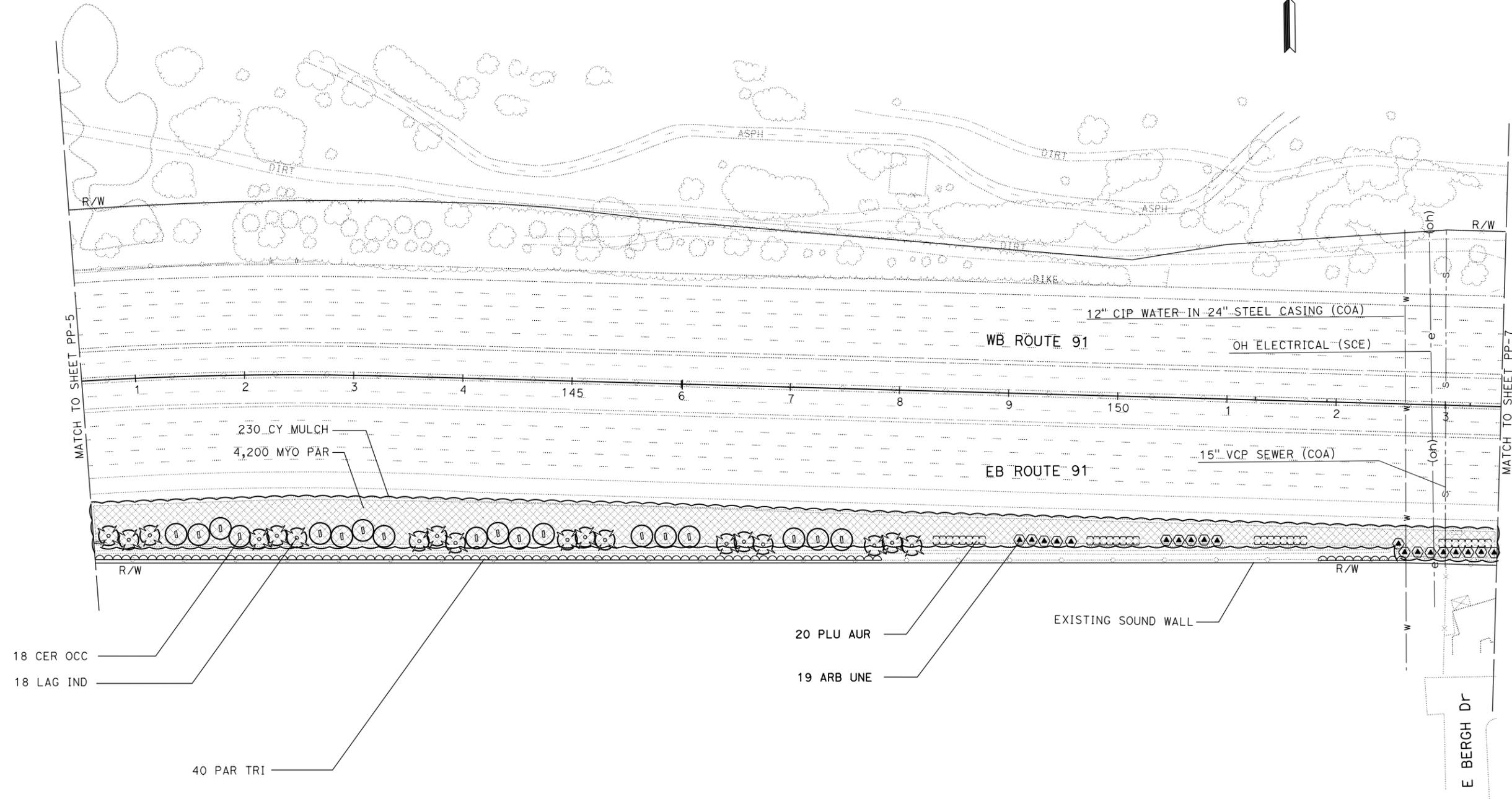
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	41	69

Monf Sun
 LICENSED LANDSCAPE ARCHITECT

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APPROVED FOR PLANTING WORK ONLY

**PLANTING PLAN
 PP-6**

SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:50

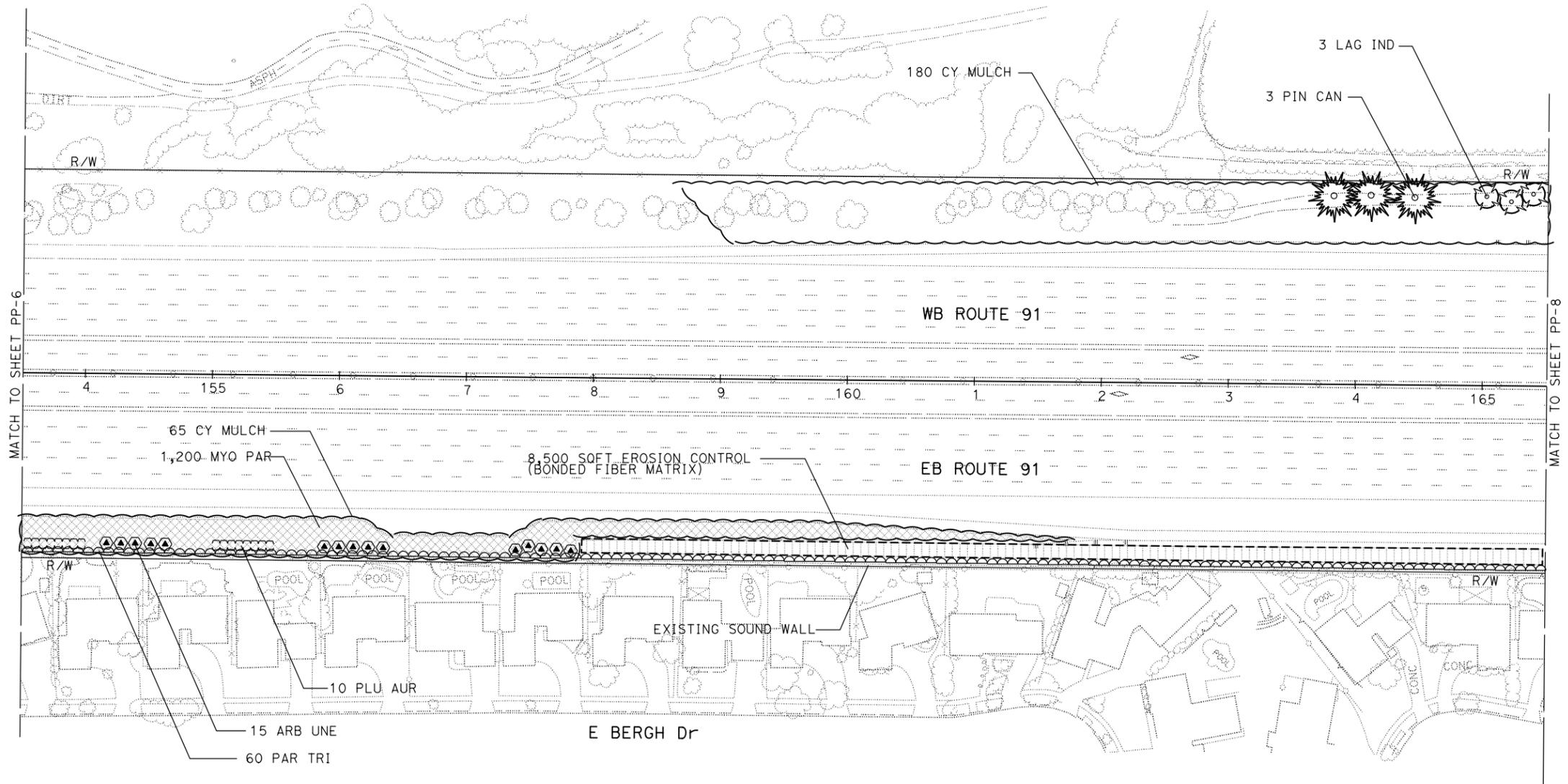
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	42	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		
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 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CHECKED BY	DESIGNED BY	REVISOR
		ERIC DICKSON		LANDON MARES	
				I-HONG SUN	



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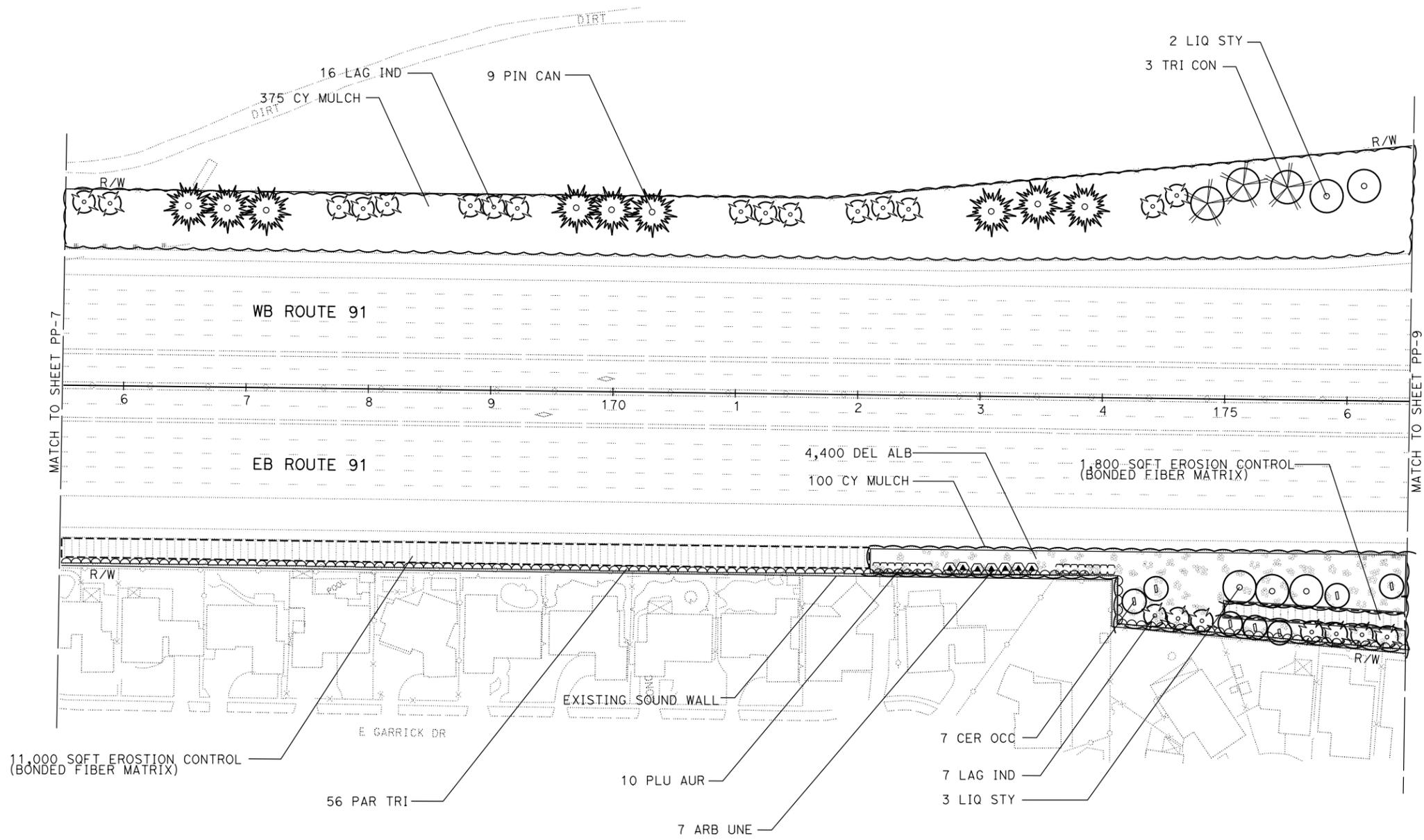
PLANTING PLAN
 SCALE: 1" = 50'
PP-7

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	43	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON
 CHECKED BY: I-HONG SUN
 CALCULATED-DESIGNED BY: LONDON MARES
 REVISED BY: I-HONG SUN
 DATE REVISIED:

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 PRIOR TO CONSTRUCTION.

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-8

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

CALCULATED-DESIGNED BY
 CHECKED BY

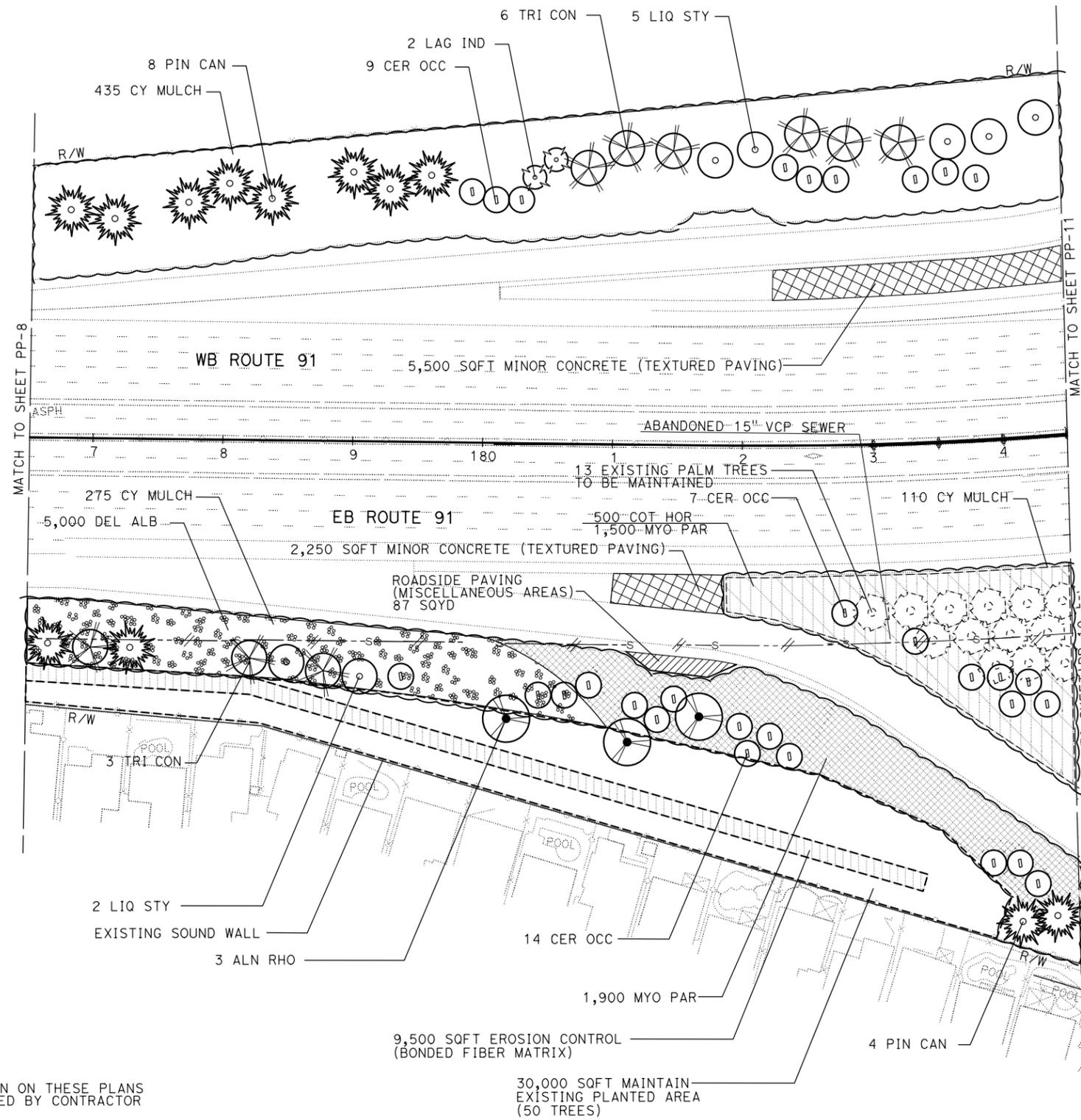
LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

NOTE:

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

LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS
 ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR
 PRIOR TO CONSTRUCTION.



APPROVED FOR PLANTING WORK ONLY

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	43	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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PLANTING PLAN
PP-9
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON
 CHECKED BY: I-HONG SUN
 CALCULATED-DESIGNED BY: LONDON MARES
 REVISOR: I-HONG SUN
 DATE REVISOR: [REDACTED]

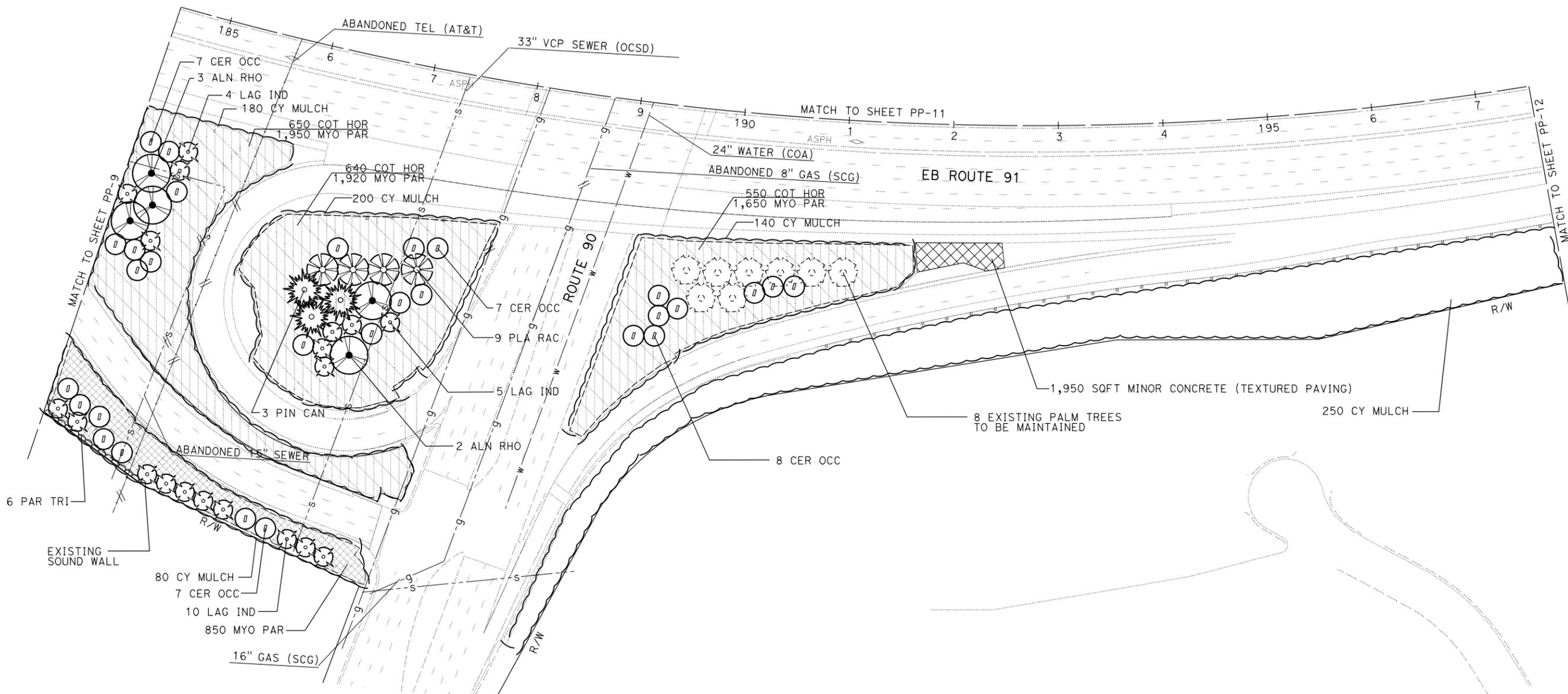
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	45	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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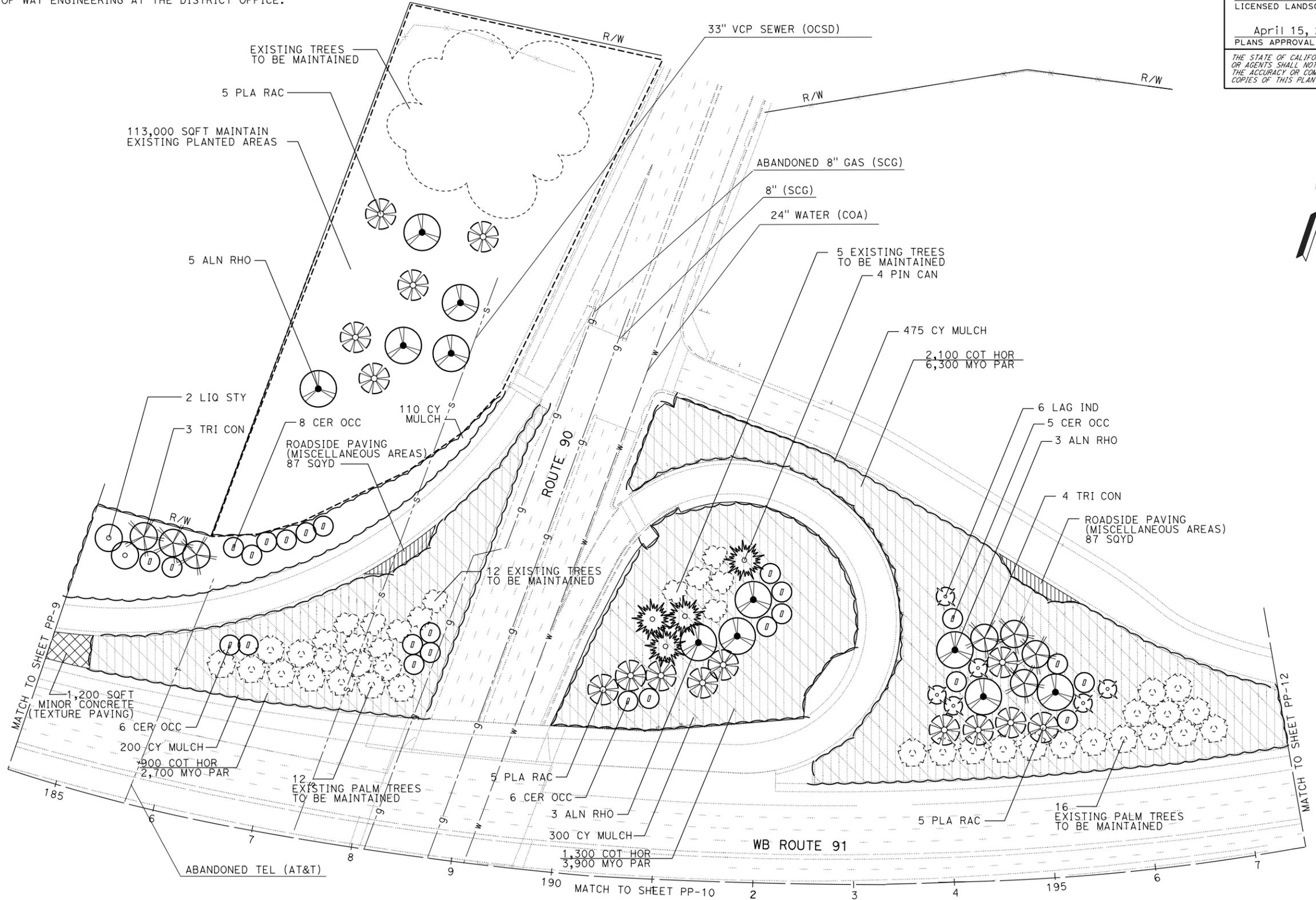
PLANTING PLAN
 SCALE: 1" = 50'
PP-10

LAST REVISION: 12-12-12 DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	46	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
 CHECKED BY
 I-HONG SUN
 LONDON MARES
 REVISOR
 DATE REVISOR

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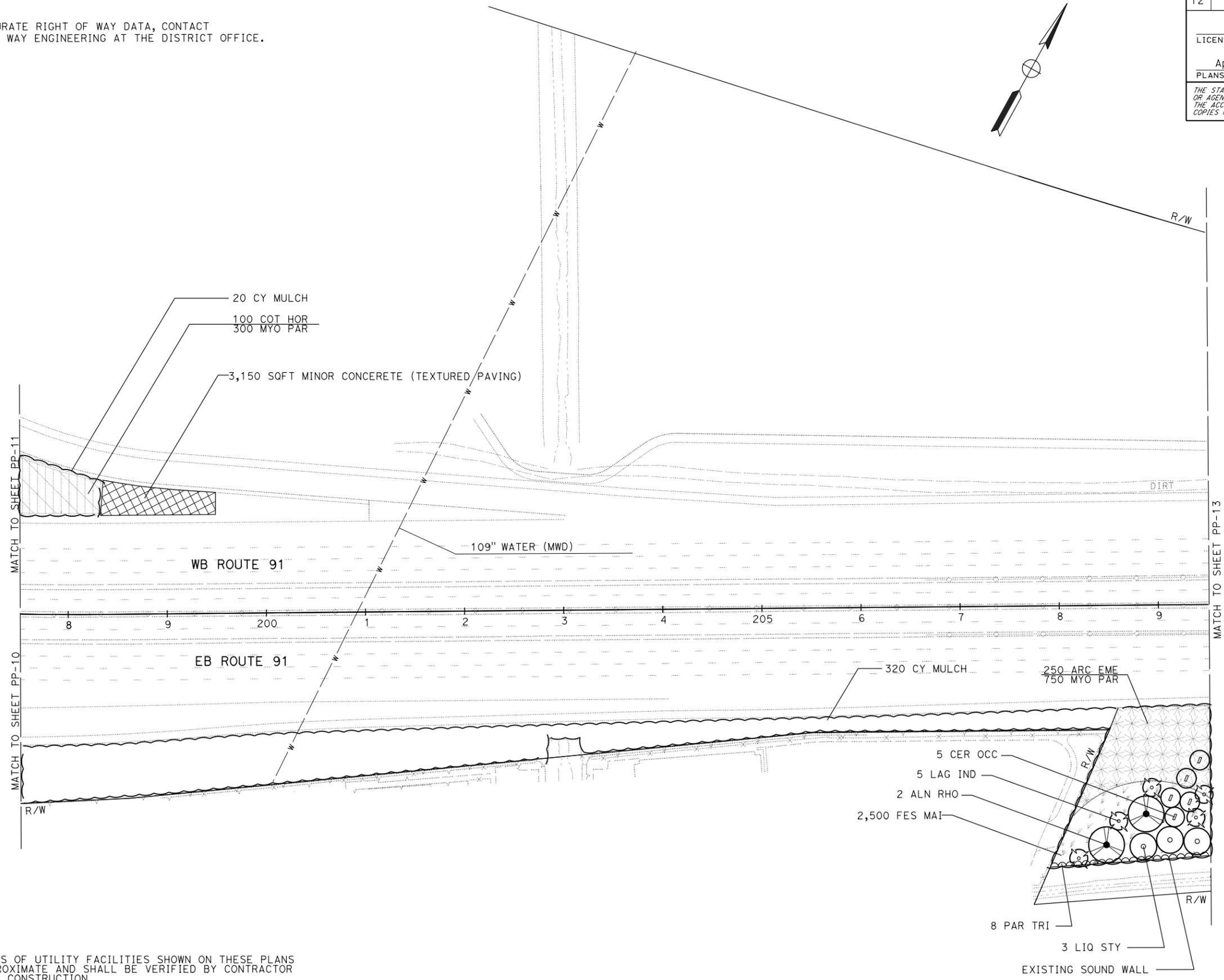
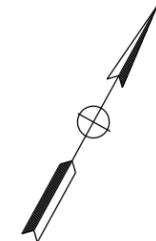
APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
PP-11
 SCALE: 1" = 50'

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	47	69

<i>Monf Sun</i> LICENSED LANDSCAPE ARCHITECT	
April 15, 2013 PLANS APPROVAL DATE	
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 LANDON MARES
 I-HONG SUN
 ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
 CALCULATED-DESIGNED BY
 CHECKED BY
 REVISED BY
 DATE REVISED

LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
PP-12
SCALE: 1" = 50'

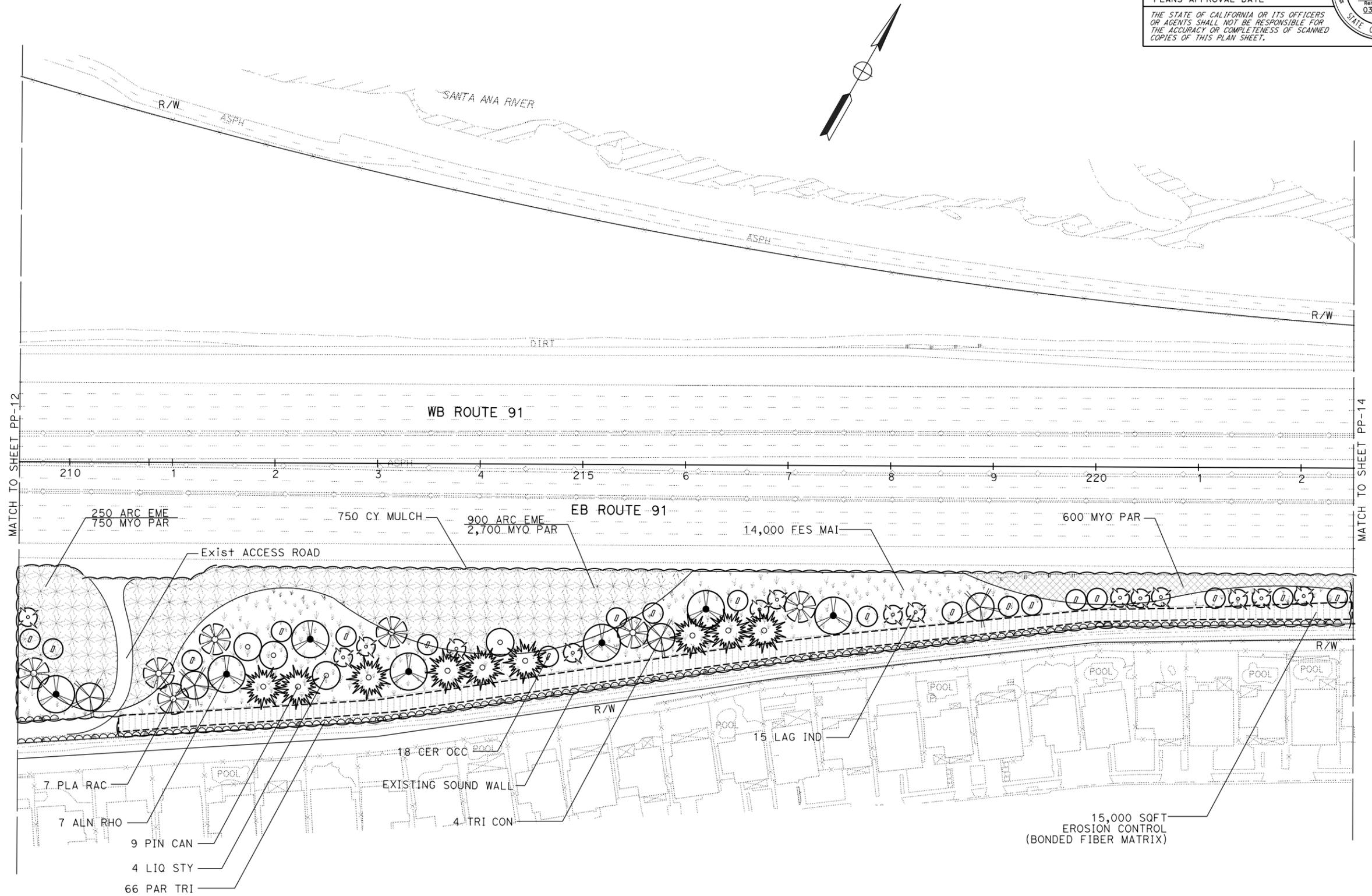
LAST REVISION
 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	48	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
 LONDON MARES
 I-HONG SUN
 REVISOR
 DATE REVISOR

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PLANTING PLAN
 SCALE: 1" = 50'
PP-13

LAST REVISION
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

CALCULATED-DESIGNED BY
 CHECKED BY

LANDON MARES
 I-HONG SUN

REVISED BY
 DATE REVISED

NOTE:

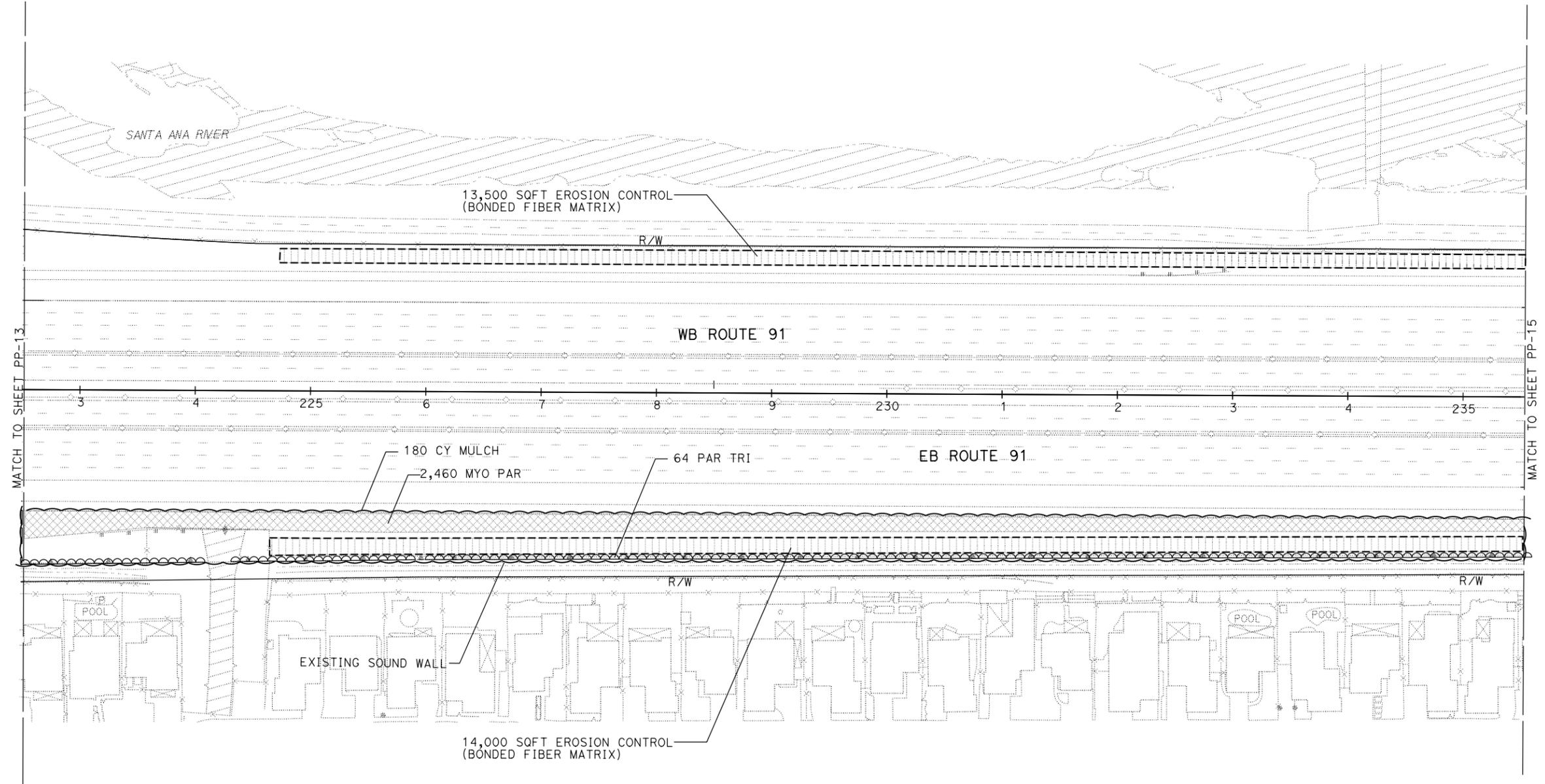
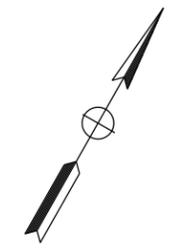
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	49	69

Monf Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

LANDON MARES
 I-HONG SUN

REVISOR BY
 DATE REVISOR

REVISOR BY
 DATE REVISOR

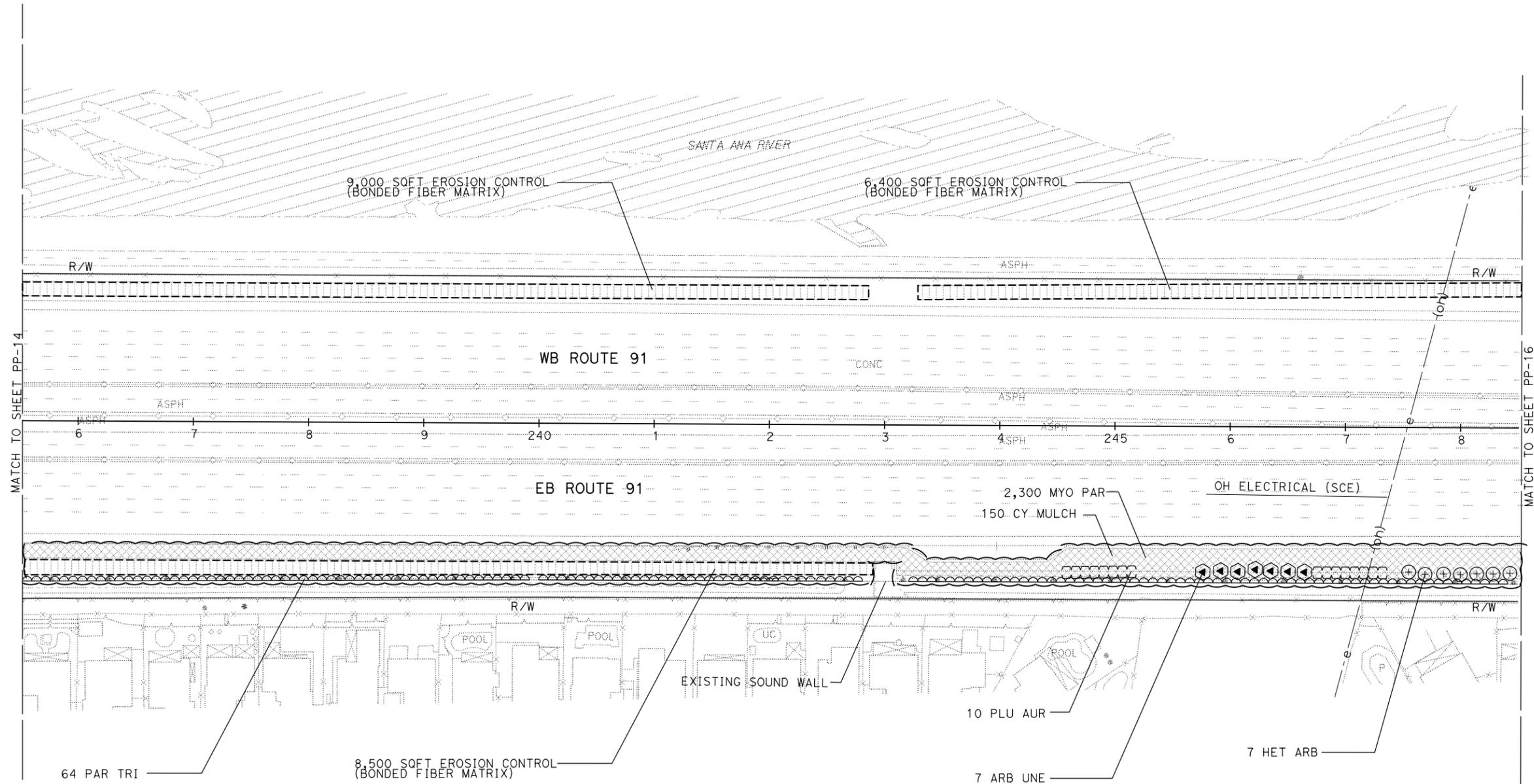
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	50	69

Monf Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
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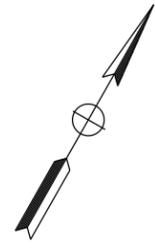
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PLANTING PLAN
 SCALE: 1" = 50'
PP-15

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	51	69

<i>Wong Sun</i> LICENSED LANDSCAPE ARCHITECT	
April 15, 2013 PLANS APPROVAL DATE	
<small>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.</small>	



NOTE:
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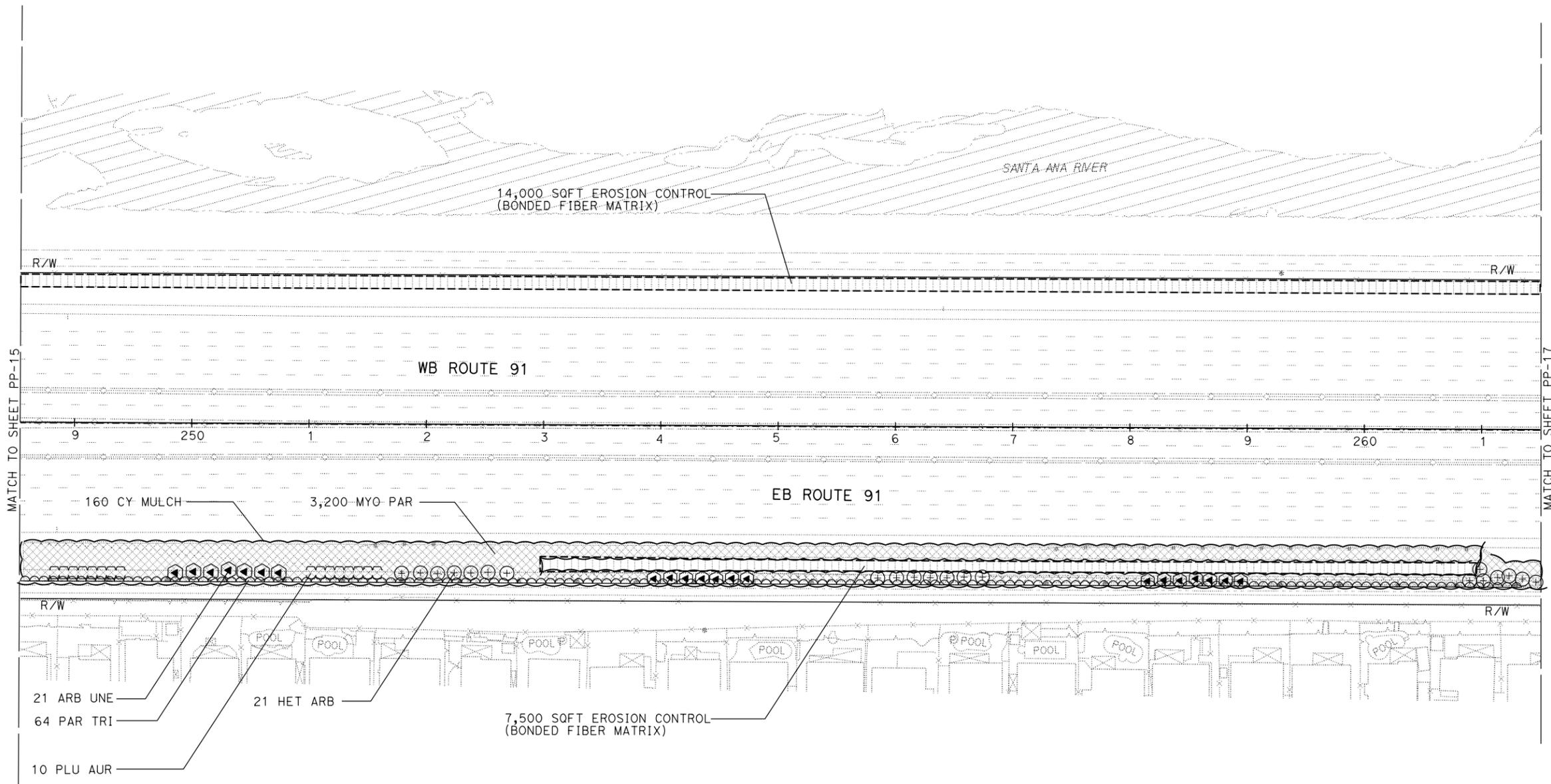
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
ERIC DICKSON

CALCULATED-DESIGNED BY
CHECKED BY

LANDON MARES
I-HONG SUN

REVISED BY
DATE REVISED



LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS
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PLANTING PLAN
SCALE: 1" = 50'
PP-16

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:51

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

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LANDON MARES
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 DATE REVISED

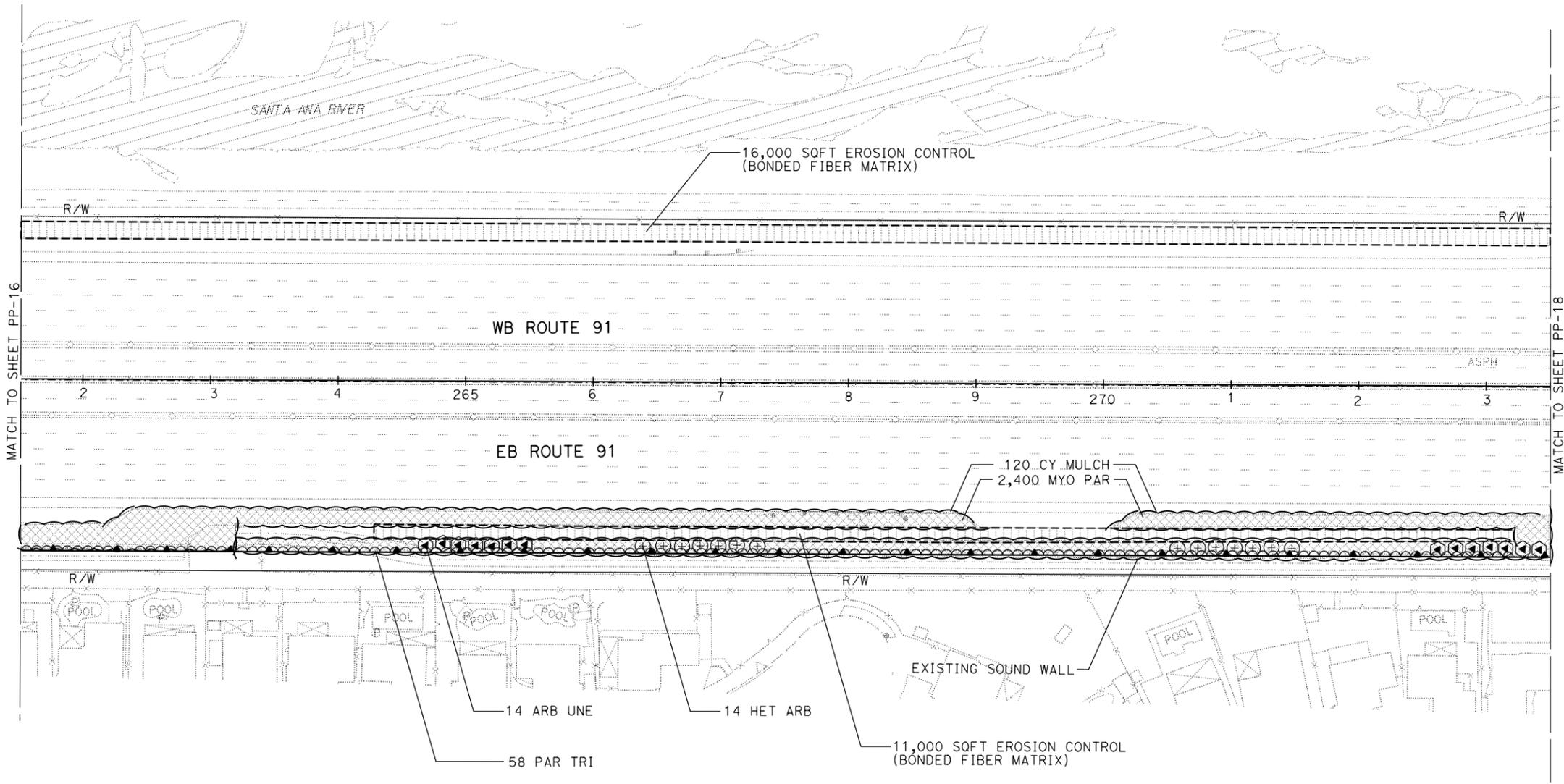
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
 RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	52	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
PP-17
 SCALE: 1" = 50'

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON

CALCULATED-DESIGNED BY
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LANDON MARES
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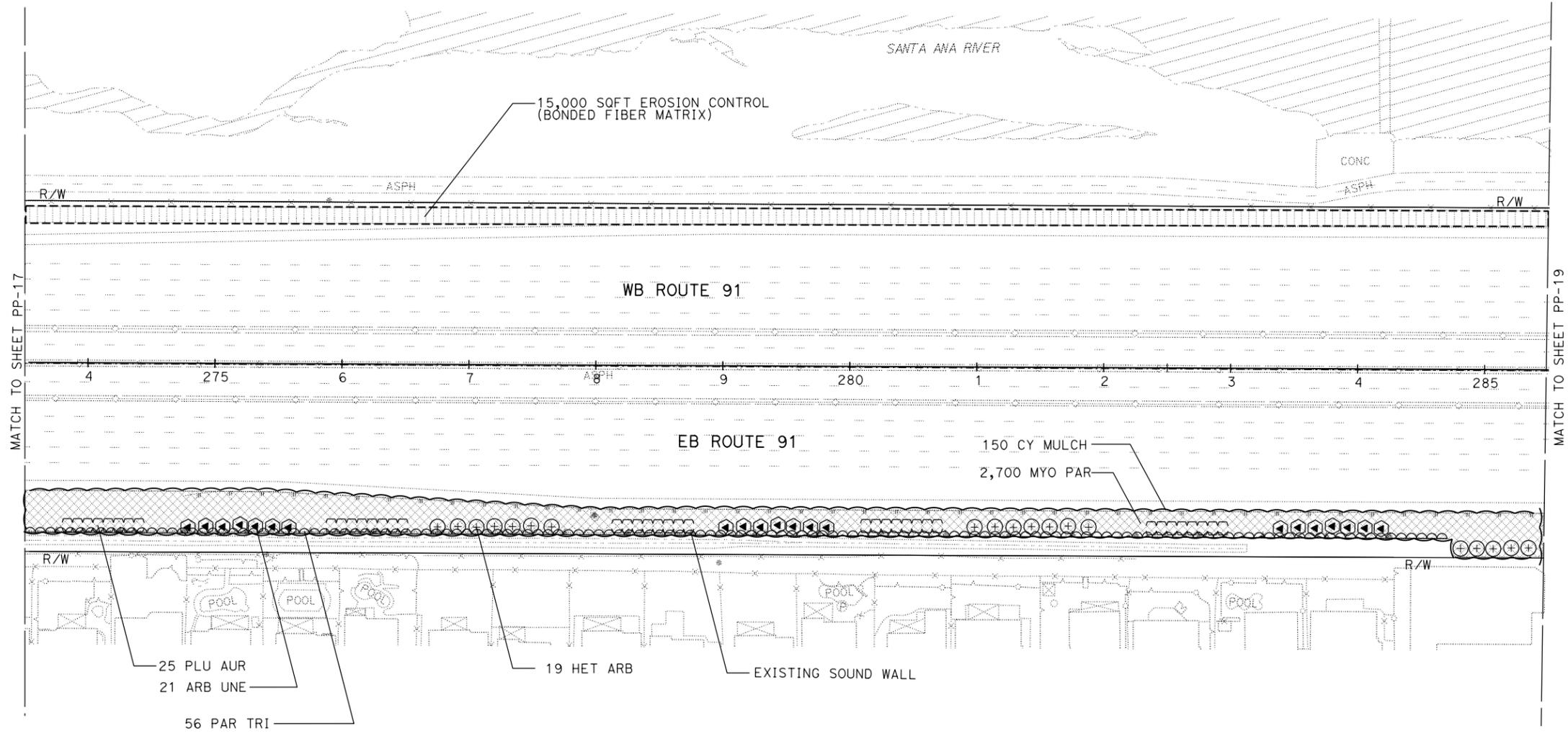
NOTE:
 FOR ACCURATE RIGHT OF WAY DATA, CONTACT
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	53	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-18

NOTE:

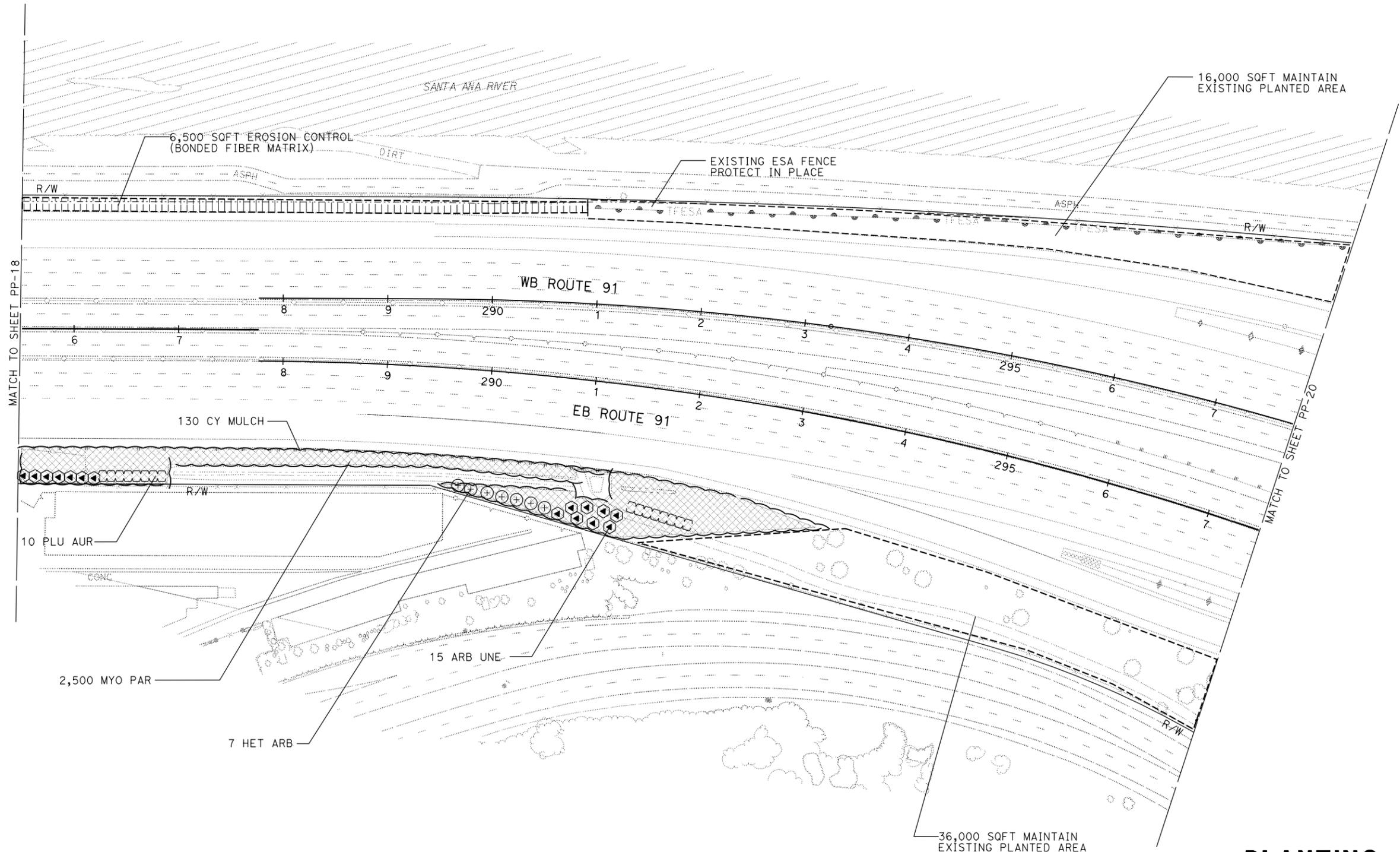
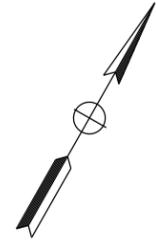
FOR ACCURATE RIGHT OF WAY DATA, CONTACT
RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	54	69

Wong Sun
LICENSED LANDSCAPE ARCHITECT

April 15, 2013
PLANS APPROVAL DATE

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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
SCALE: 1" = 50'
PP-19

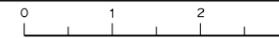
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
ERIC DICKSON

CALCULATED-DESIGNED BY
CHECKED BY

LANDON MARES
I-HONG SUN

REVISED BY
DATE REVISED



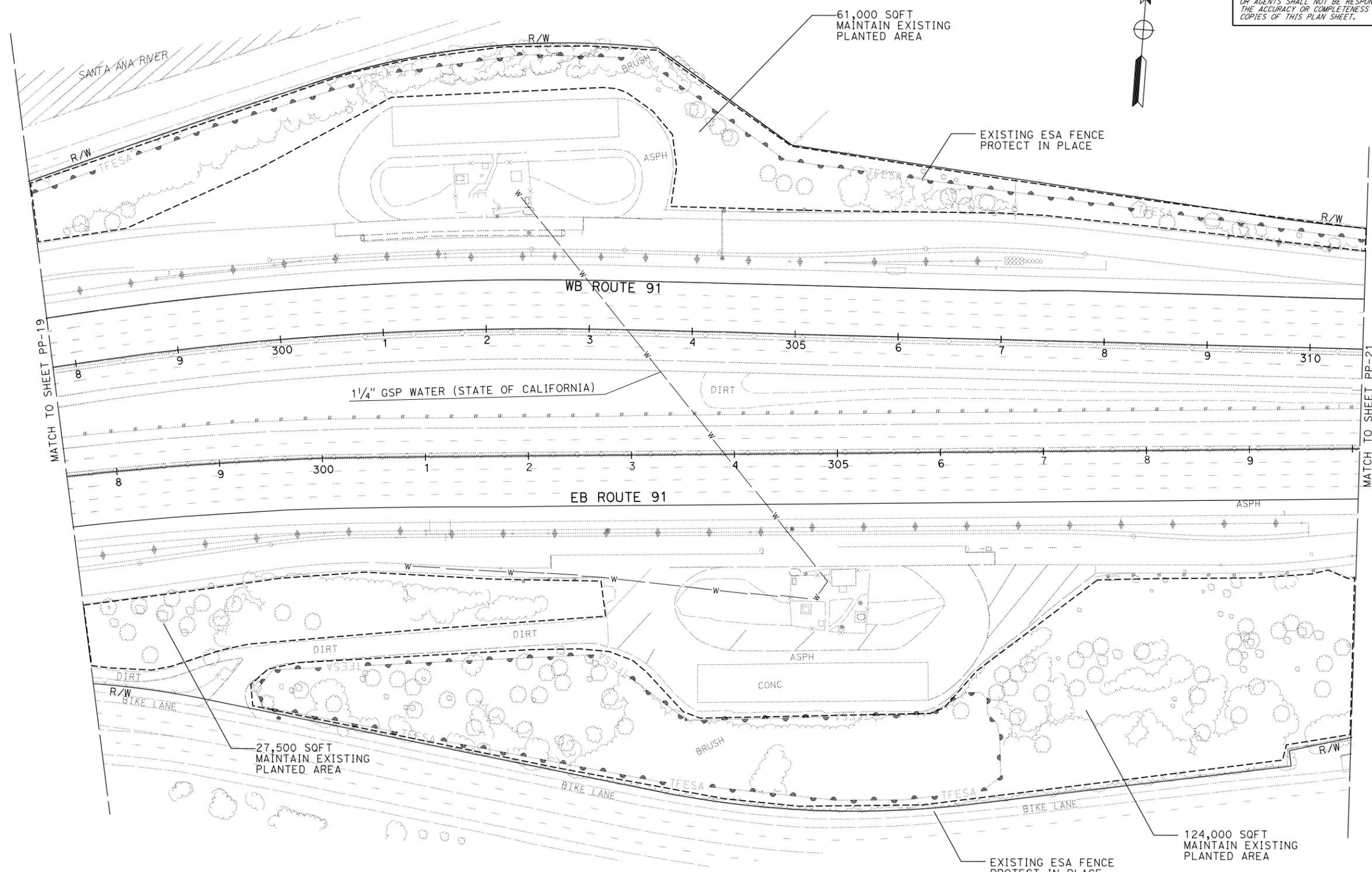
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
EtGaltans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

NOTE:

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

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	55	69

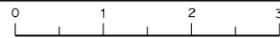
Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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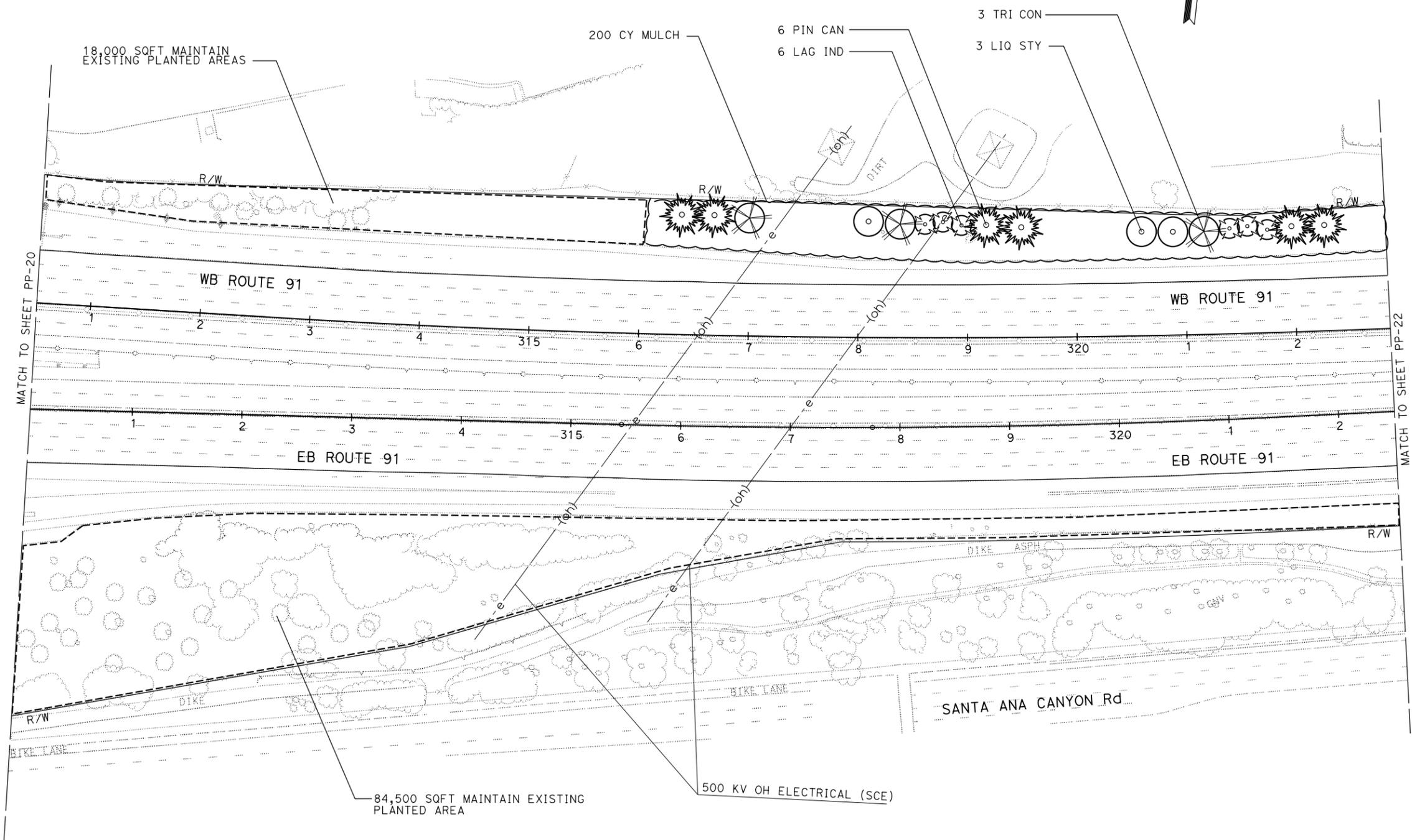
PLANTING PLAN
 SCALE: 1" = 50'
PP-20



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	56	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		
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NOTE:
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 LANDON MARES
 I-HONG SUN
 ERIC DICKSON
 SENIOR LANDSCAPE ARCHITECT
 CHECKED BY
 CALCULATED-DESIGNED BY
 REVISED BY
 DATE REVISED

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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-21

LAST REVISION DATE PLOTTED => 11-APR-2013
 12-12-12 TIME PLOTTED => 10:51

DESIGNED BY	LANDON MARES
CHECKED BY	ERIC DICKSON
REVISOR	I-HONG SUN
DATE	

NOTE:

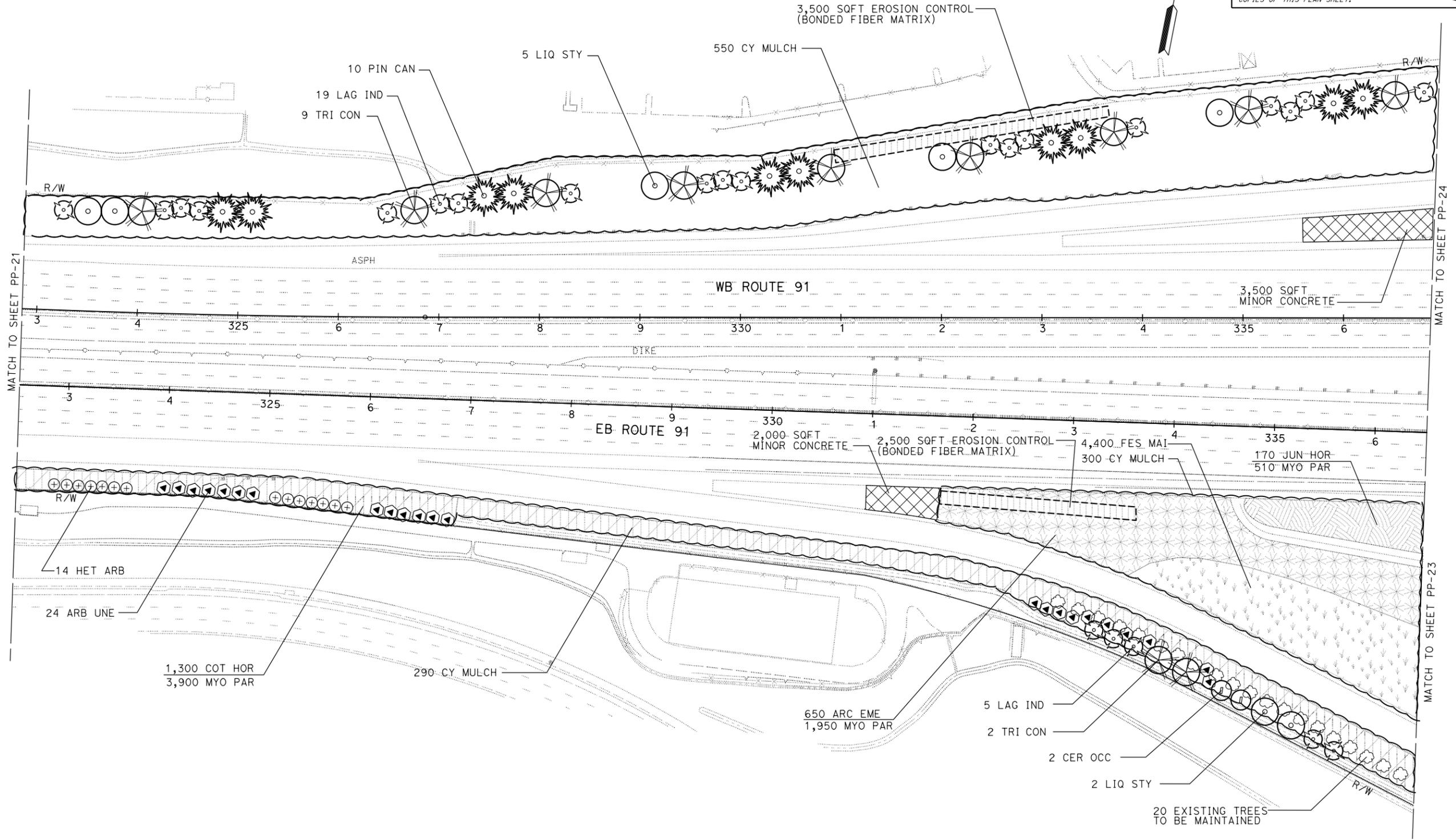
FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	57	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT

April 15, 2013
 PLANS APPROVAL DATE

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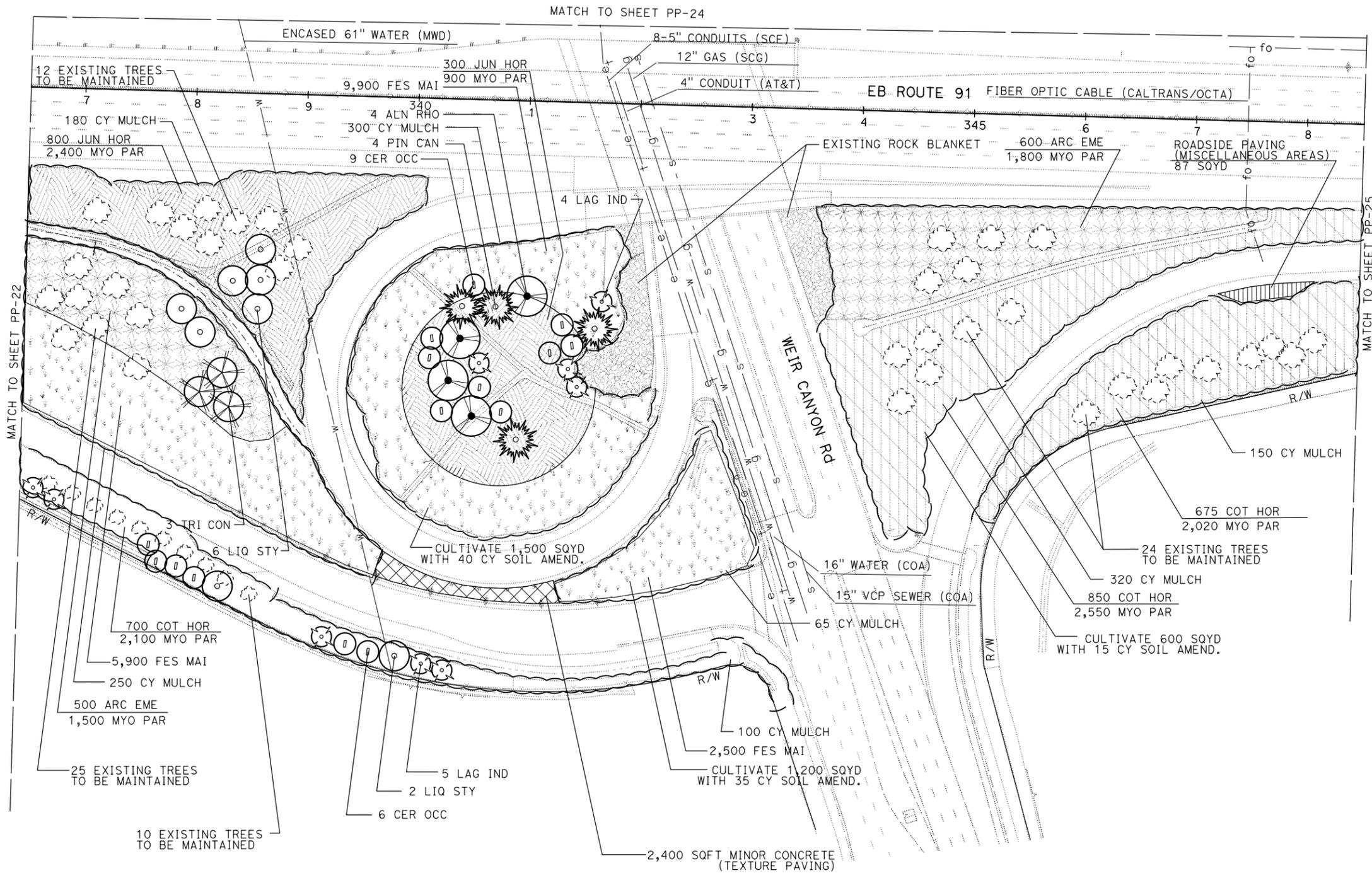
PLANTING PLAN
 SCALE: 1" = 50'
PP-22

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	58	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: ERIC DICKSON
 CHECKED BY: I-HONG SUN
 LONDON MARES
 REVISED BY: I-HONG SUN
 DATE REVISED:

LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

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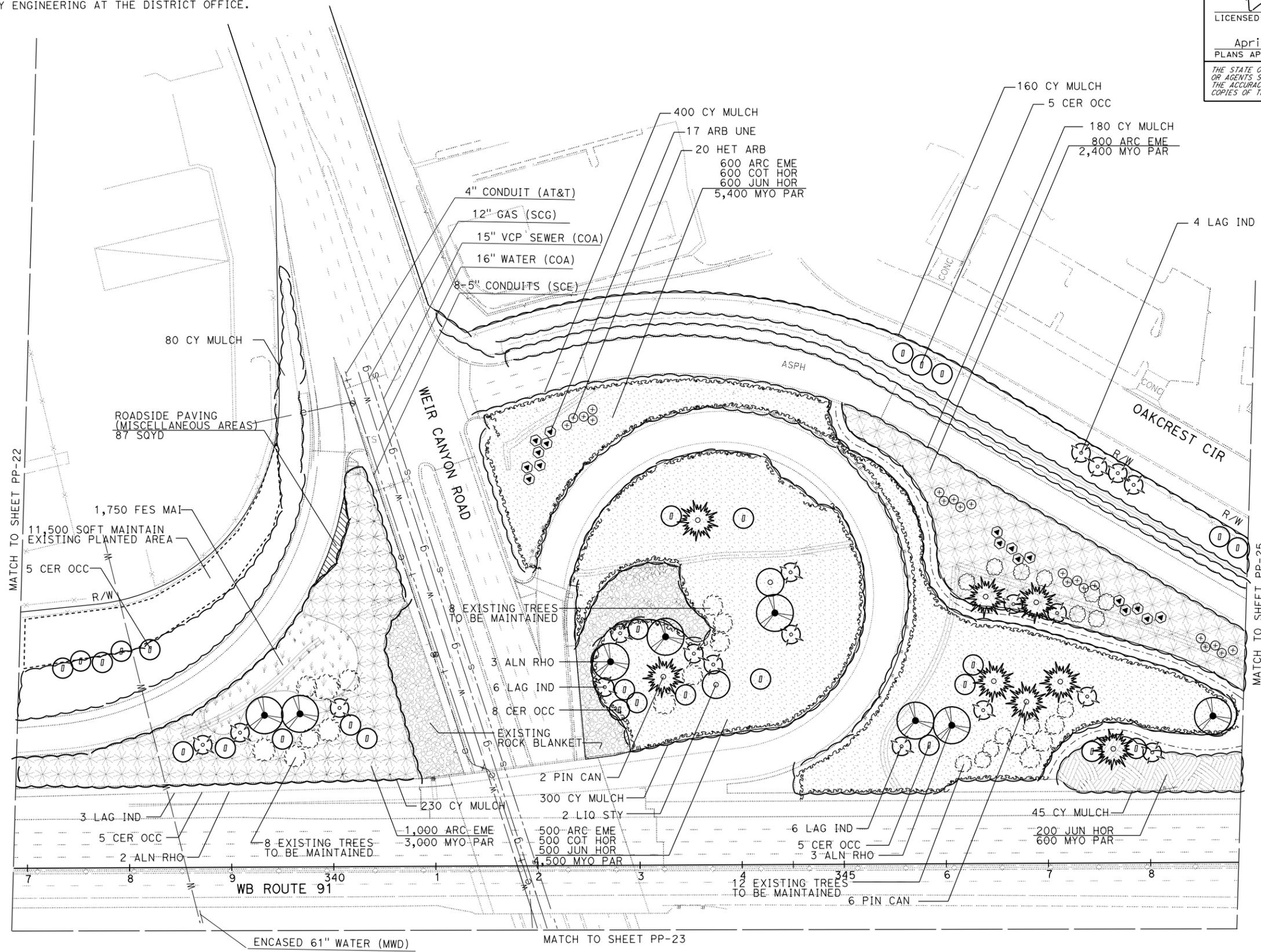
PLANTING PLAN
PP-23
 SCALE: 1" = 50'

LAST REVISION: 12-12-12
 DATE PLOTTED => 11-APR-2013
 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	59	69

 LICENSED LANDSCAPE ARCHITECT		
April 15, 2013 PLANS APPROVAL DATE		
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

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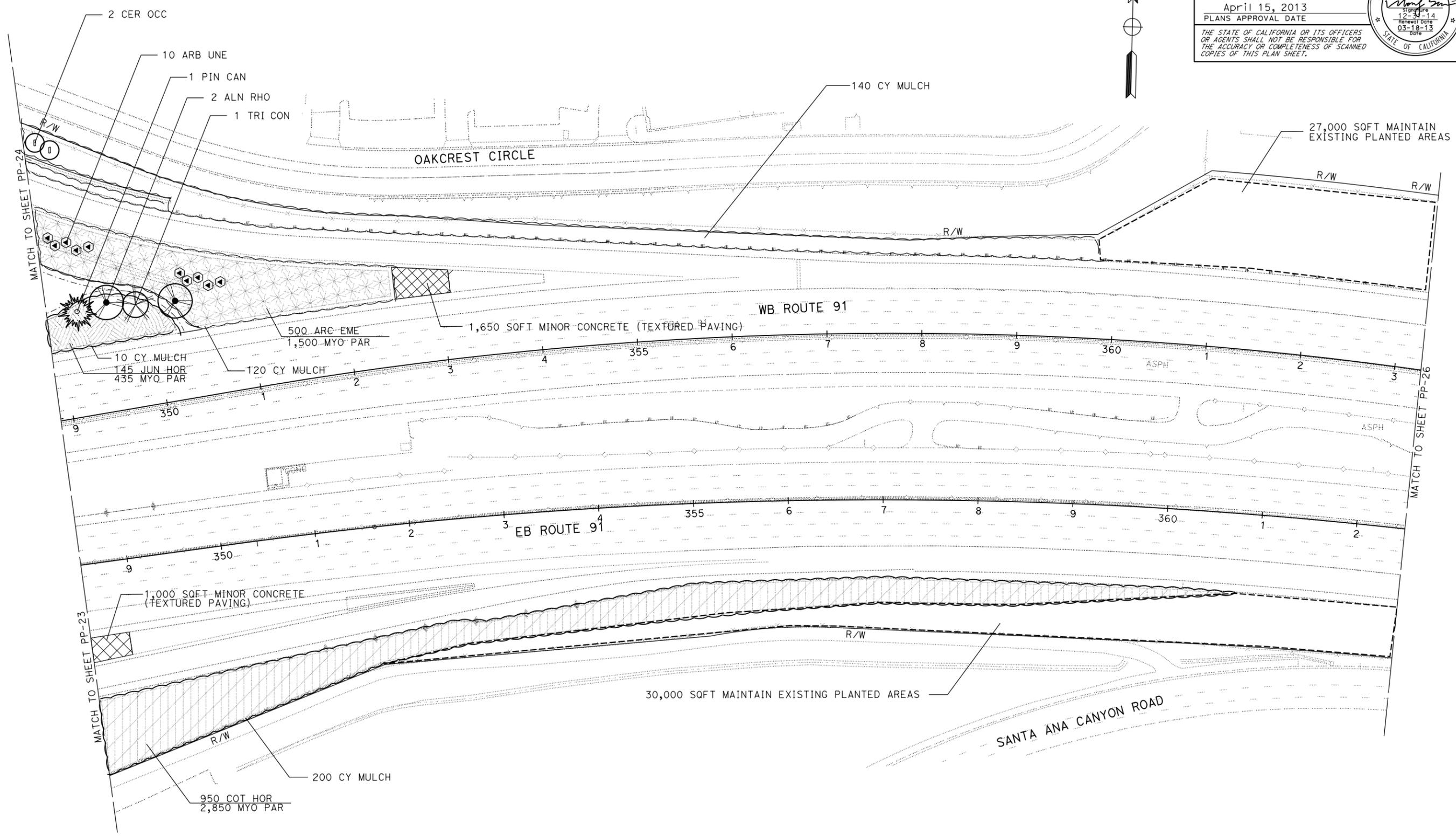
PLANTING PLAN
PP-24
 SCALE: 1" = 50'

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:51

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	60	69

<i>Wong Sun</i>	
LICENSED LANDSCAPE ARCHITECT	
April 15, 2013	
PLANS APPROVAL DATE	
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APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
SCALE: 1" = 50'
PP-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECT	REVISOR	DATE
Eric Dickson	ERIC DICKSON	LANDON MARES	DATE
Etobians	LANDSCAPE ARCHITECTURE	I-HONG SUN	DATE
	CHECKED BY	REVISOR	DATE
	DESIGNED BY	REVISOR	DATE

DATE PLOTTED => 11-APR-2013
TIME PLOTTED => 10:51
LAST REVISION 12-12-12

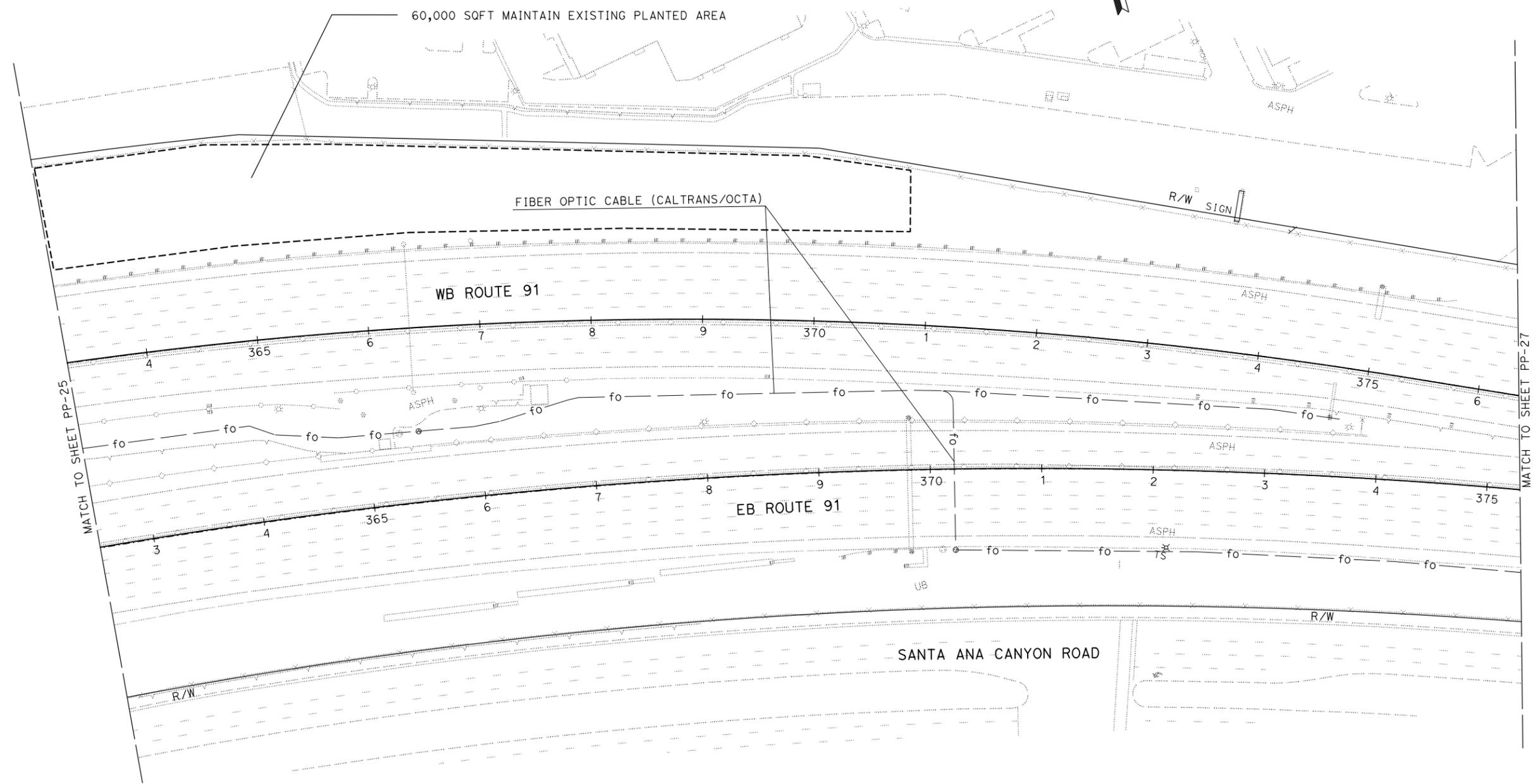
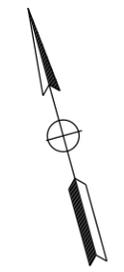
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	61	69

<i>Wong Sun</i>	
LICENSED LANDSCAPE ARCHITECT	
April 15, 2013	
PLANS APPROVAL DATE	
<small>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.</small>	



NOTE:

FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 * QUANTITY SHOWN REPRESENTS TOTAL ON EACH PAGE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans[®] LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-26

LAST REVISION DATE PLOTTED => 11-APR-2013 TIME PLOTTED => 10:51

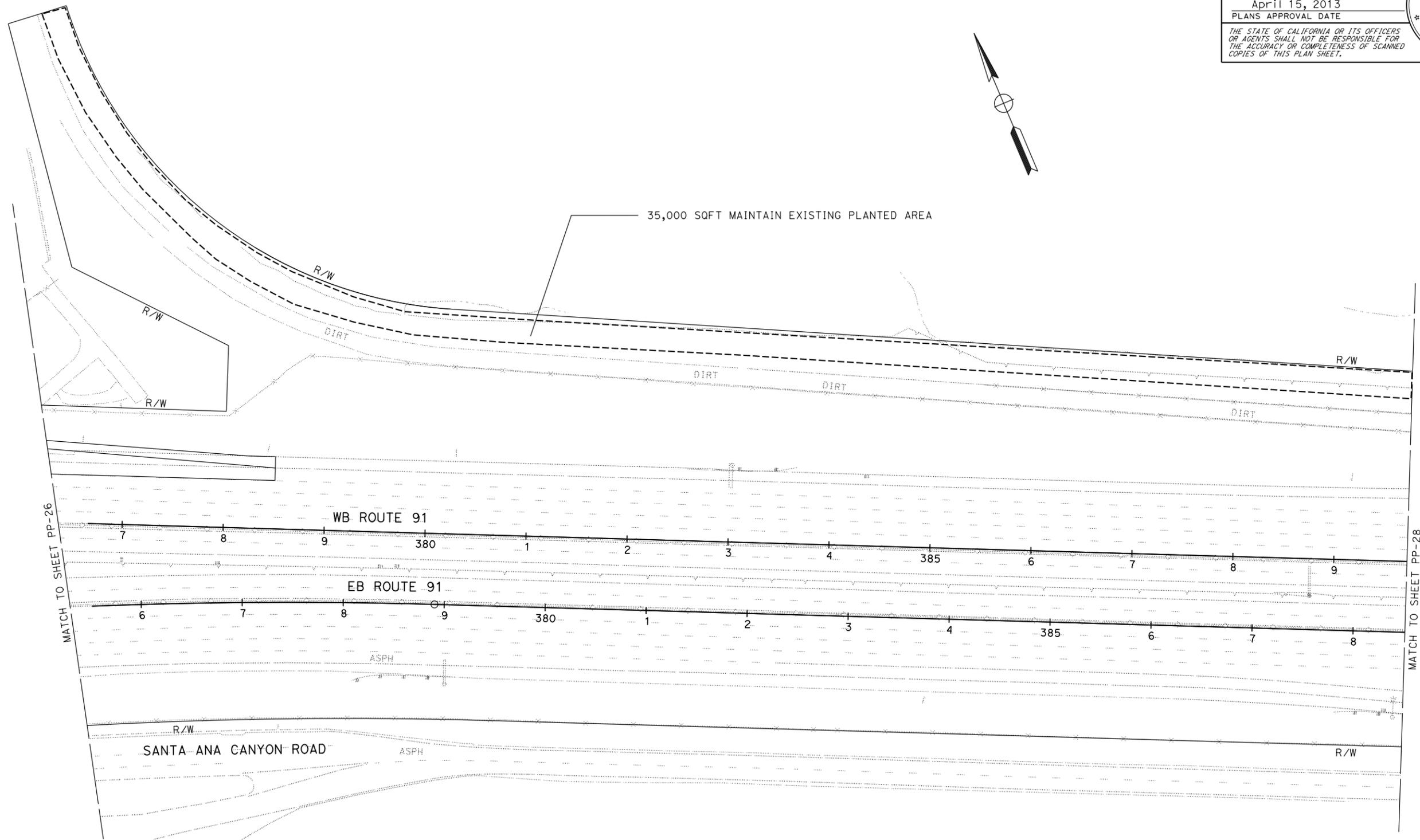
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

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

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
12	Ora	91	9.1/15.1	62	69

Wong Sun
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2013
 PLANS APPROVAL DATE

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LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	64	69

Monf Sun
LICENSED LANDSCAPE ARCHITECT

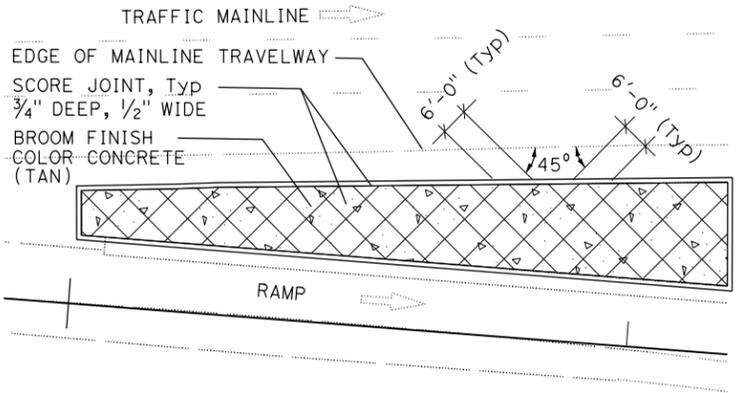
April 15, 2013
PLANS APPROVAL DATE

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.

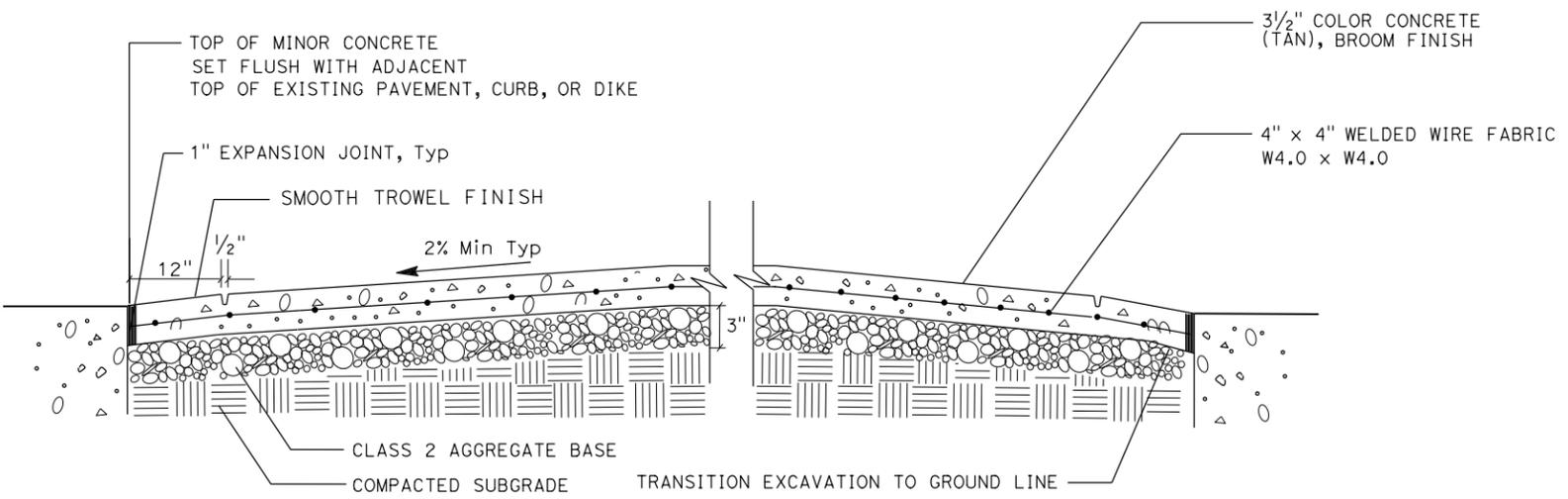


NOTE:

FOLLOW STANDARD PLAN RSP A77C5 AND STANDARD SPECIFICATION 83-1.02B(1) WHEN PLACING CONCRETE UNDER GUARD RAIL POSTS.



MINOR CONCRETE (TEXTURED PAVING)
PLAN VIEW



MINOR CONCRETE (TEXTURED PAVING)
SECTION

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 ERIC DICKSON
 CALCULATED-DESIGNED BY
 CHECKED BY
 LONDON MARES
 I-HONG SUN
 REVISED BY
 DATE REVISED

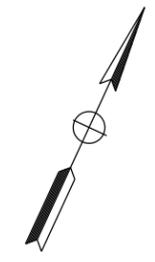
LANDSCAPE DETAILS
NO SCALE
LD-1

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	66	69

03-18-13
REGISTERED ELECTRICAL ENGINEER DATE
April 15, 2013
PLANS APPROVAL DATE

JOANNE VO
No. E 16748
Exp 9/30/14
ELECTRICAL
STATE OF CALIFORNIA

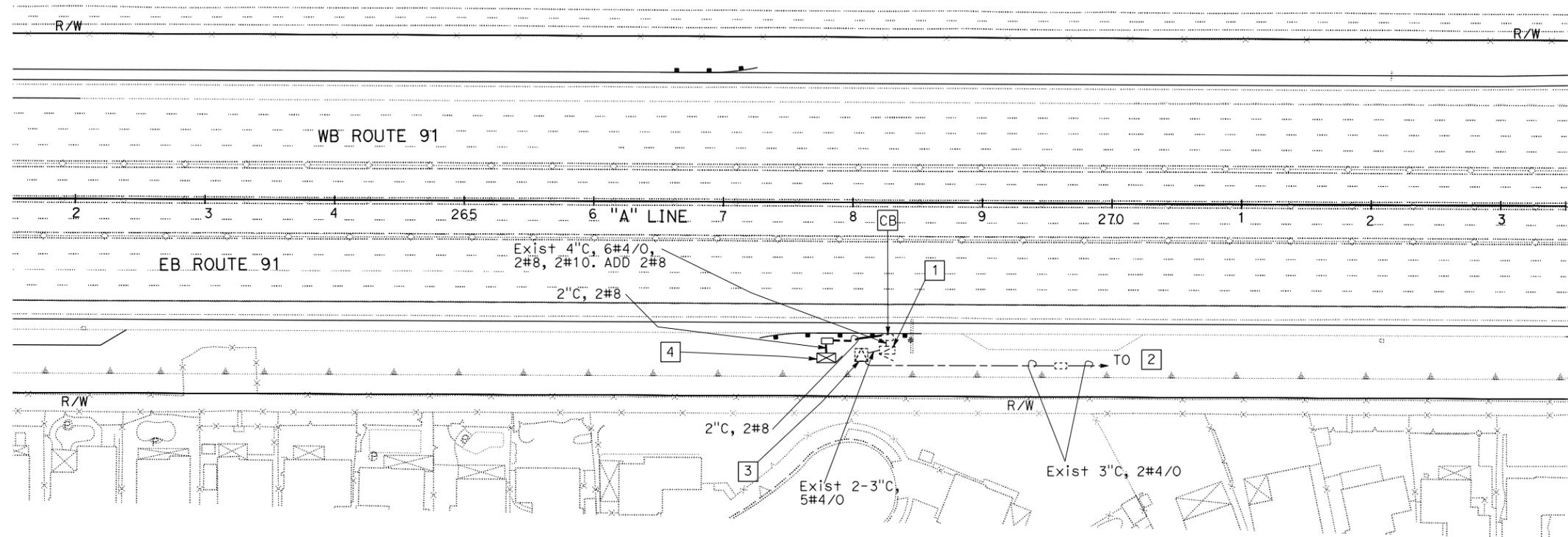
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



NOTES: (THIS SHEET ONLY)

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- ELECTRICAL QUANTITIES ARE SHOWN FOR INFORMATION ONLY, NOT A SEPARATE PAY ITEM.

SANTA ANA RIVER



LEGEND: (THIS SHEET ONLY)

- EXISTING 120/240 V TYPE III-BF UNMETERED SERVICE EQUIPMENT ENCLOSURE.
200 A, 240 V, 2P, CB (MAIN)
4-80 A, 120 V, 1P, CB (CMS)
30 A, 120 V, 1P, CB (334-C)
ADD 20 A, 120 V, 1P, CB (IRR)
- EXISTING 277/480 V, TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE.
ID No. 07-55-091-0-013.41
ADDRESS: 7596 E CALLA GRANADA Ave.
- EXISTING 35 kVA RATED 480 V PRIMARY - 120/240 V SECONDARY STEP-DOWN TRANSFORMER.
- IRRIGATION CONTROLLER CABINET ICC "C". NOT PART OF ELECTRICAL PAY ITEM, SEE IRRIGATION PLAN.

QUANTITIES TABLE

2" C	CIRCUIT BREAKER	CB	PULL BOX	No. 8 CONDUCTOR
FT	EA	EA	EA	FT
100	1	1	1	200

ELECTRIC SERVICE (IRRIGATION)

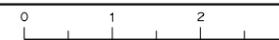
SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Electrans® ELECTRICAL DESIGN

FUNCTIONAL SUPERVISOR: SHAHRAM SHAHRIARI
CALCULATED-DESIGNED BY: CHECKED BY:
JOANNE VO VANESSA TRUONG
REVISED BY: DATE REVISED:



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	67	69

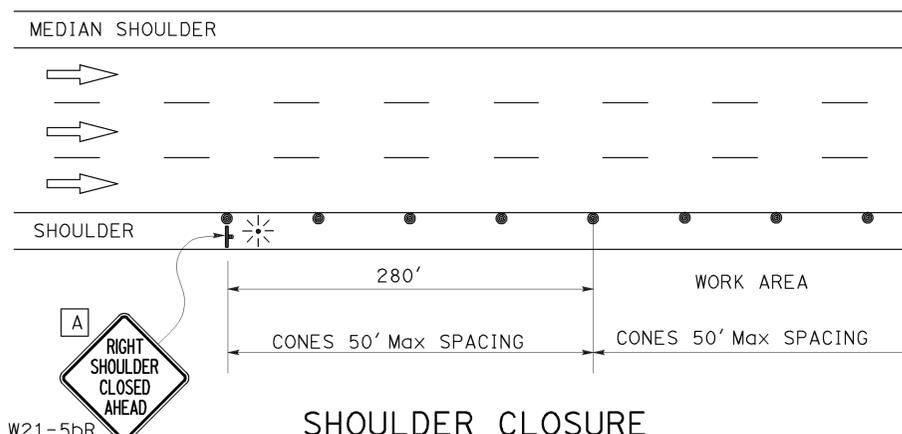
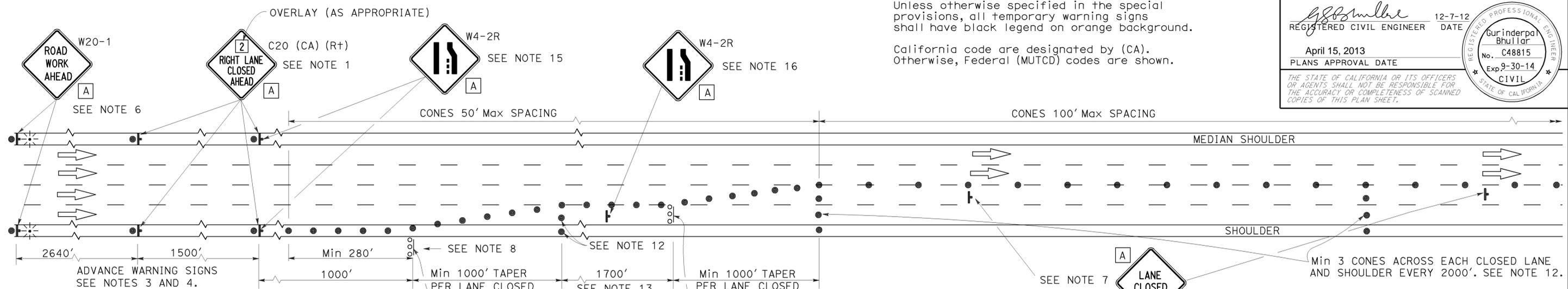
REGISTERED CIVIL ENGINEER
 12-7-12 DATE
 April 15, 2013
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

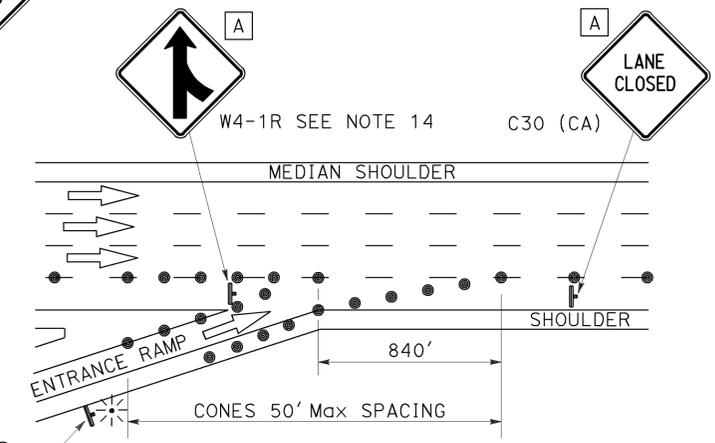
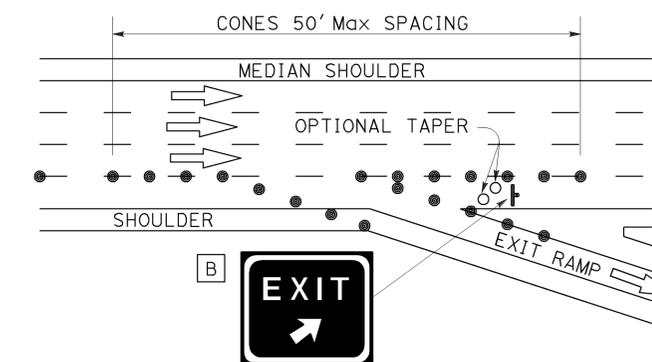
NOTES:

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

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



LANE CLOSURE



NOTES:

- Median lane closures shall conform to the details for outside lane closures except that C20 (CA) (Lt) signs shall be used.
- At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
- Duplicate sign installations are not required:
 - On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
- 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.
- A C14 (CA) "END ROAD WORK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.
- If the W20-1 sign would follow within 2000' of a stationary W20-1 or C11 (CA) "ROAD WORK NEXT _____ MILES", use a C20 (CA) sign for the first advance warning sign.
- Place a C30 (CA) sign every 2000' throughout length of lane closure.
- One flashing arrow sign for each lane closed. The first flashing arrow sign shall be Type I. All others may be either Type I or Type II.
- 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.
- All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.
- 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.
- Unless otherwise specified in the special provisions, the 1700' tangent shown along lane lines shall be used between the 1000' tapers required for each closed traffic lane.
- Unless otherwise specified in the special provisions, the G84 (CA) and W4-1 signs shall be used as shown.
- When specified in the special provisions, a W4-2 "LANE ENDS" symbol sign is to be used in place of the C20 (CA) "RIGHT LANE CLOSED AHEAD" sign.
- The W4-2 "LANE ENDS" symbol sign shown at this location is to be used where the W4-2 sign is used as advance warning as described in Note 15.

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 54" x 48"

LEGEND

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

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
FOR LANE CLOSURE ON
FREEWAYS AND EXPRESSWAYS**

NO SCALE

TCS-1

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 30" x 30"
- D 48" x 48" - SPEED OF 50 mph OR MORE
36" x 36" - SPEED LESS THAN 50 mph
- E 48" x 36"

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	68	69

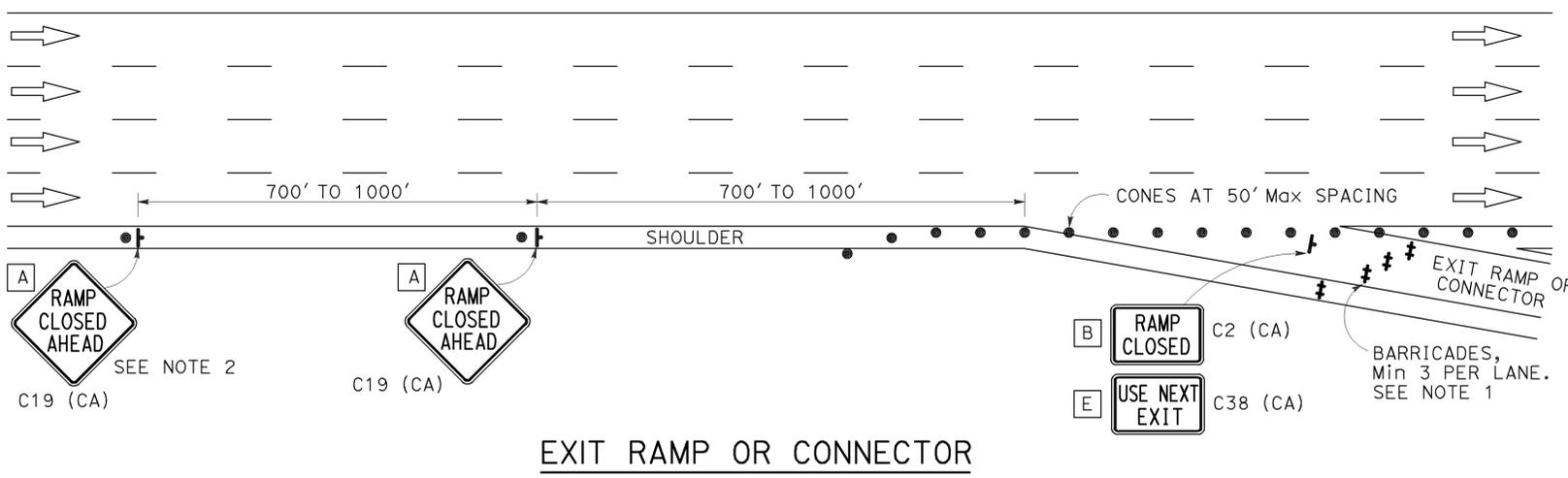
12-7-12 DATE
 REGISTERED CIVIL ENGINEER
 April 15, 2013 PLANS APPROVAL DATE
 Gurinderpal Bhullar No. C48815 Exp. 9-30-14 CIVIL
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

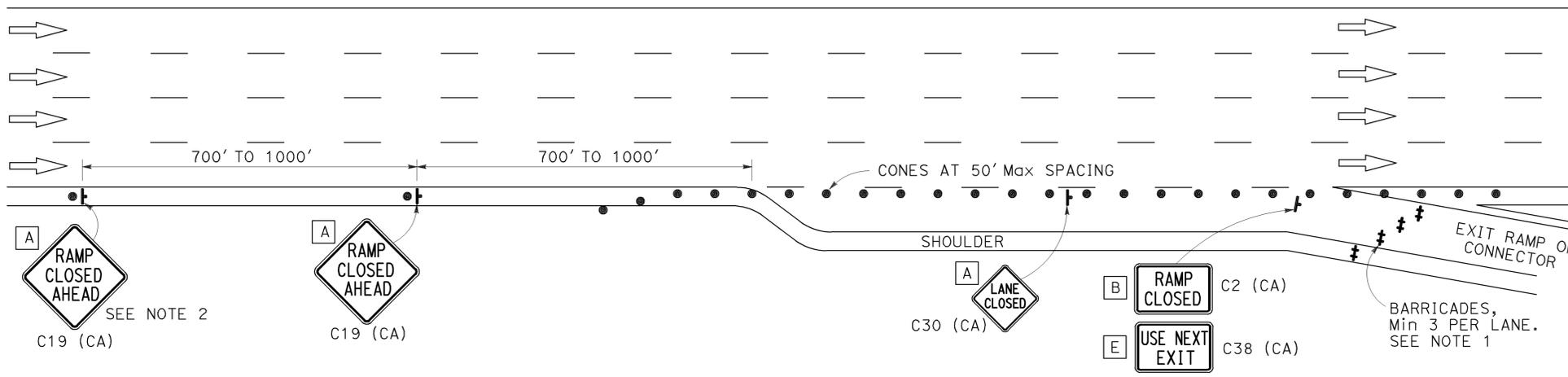
- TRAFFIC CONE
- † TEMPORARY SIGN
- ‡ BARRICADES

NOTES:

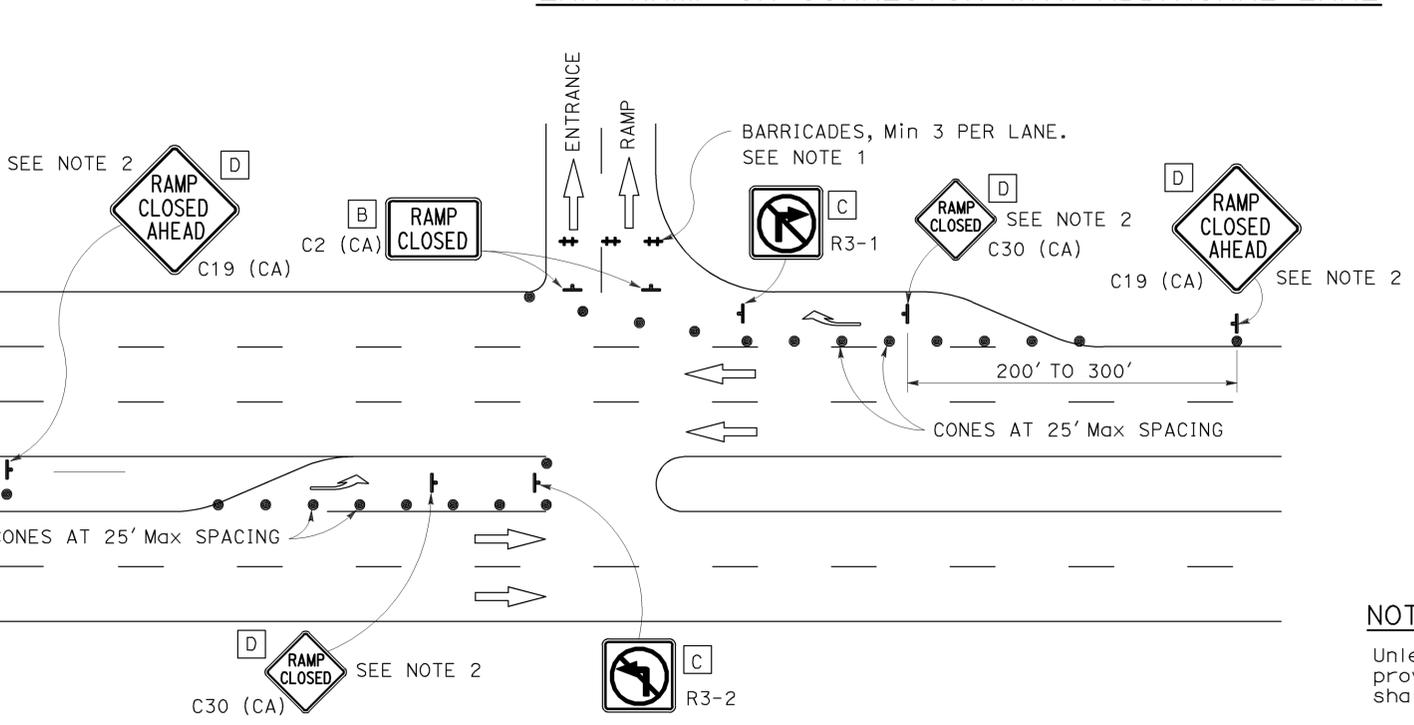
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19 (CA) "RAMP CLOSED AHEAD" and C30 (CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed by the Engineer, on all guide signs that refer to the closed ramp. The letter size on the overlay shall be the same as the guide sign.
- Each advance C19 (CA) "RAMP CLOSED AHEAD" 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.
- All cones used for ramp closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
- Portable delineators, placed at one-half the spacing indicated for traffic cones, may be used instead of cones for daytime ramp closures only.
- At least one person shall be assigned to provide full time maintenance of traffic control devices, unless otherwise directed by the Engineer.
- The existing "EXIT" sign in the gore area shall be covered during ramp closures.



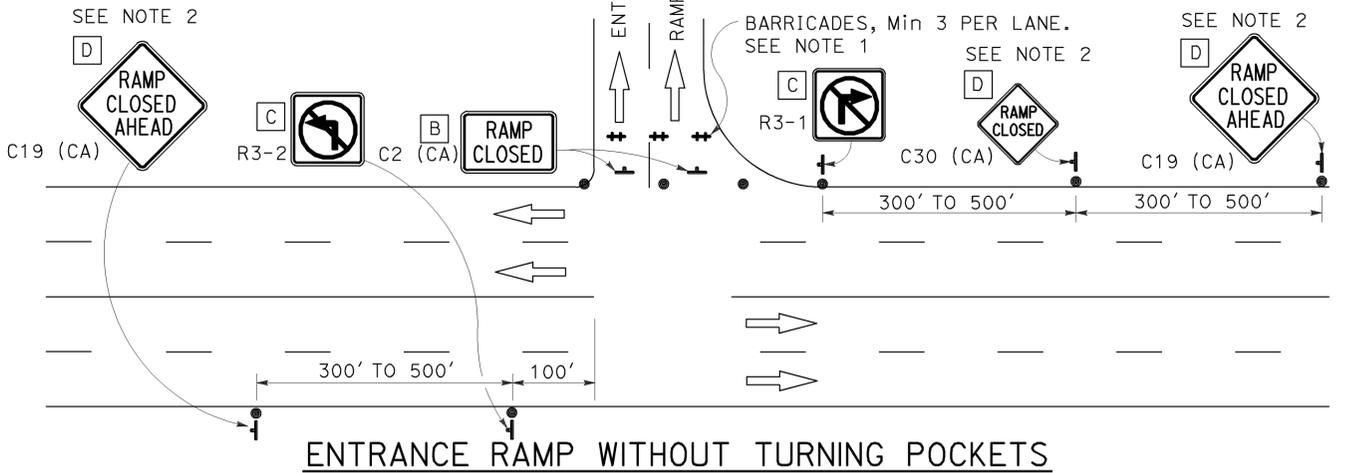
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

NOTES:

- Unless otherwise specified in the special provisions, all temporary warning signs shall have black legend on orange background.
- California code are designated by (CA). Otherwise, Federal (MUTCD) codes are shown.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURE

NO SCALE

TCS-2

REVISOR BY DATE

CALCULATED BY CHECKED BY

FUNCTIONAL SUPERVISOR

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION



Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
12	Ora	91	9.1/15.1	69	69

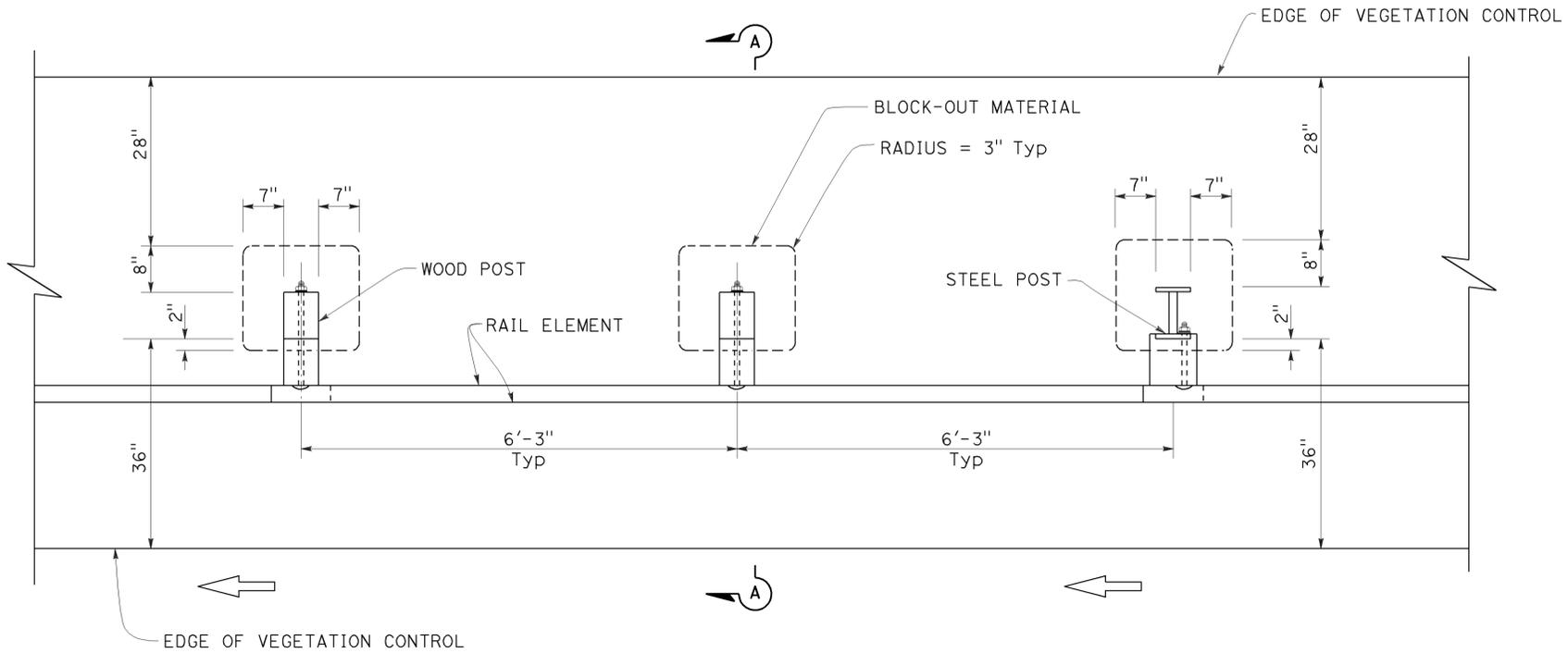
Randell D. Hiatt
REGISTERED CIVIL ENGINEER

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.

REGISTERED PROFESSIONAL ENGINEER
Randell D. Hiatt
No. C50200
Exp. 6-30-13
CIVIL
STATE OF CALIFORNIA

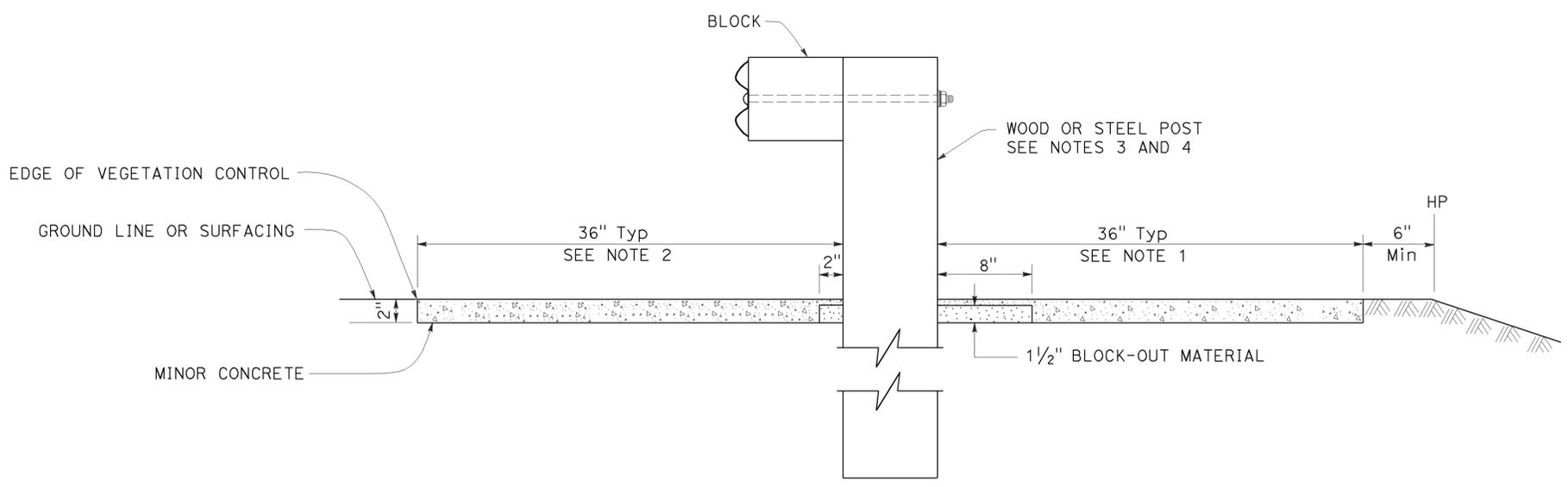
TO ACCOMPANY PLANS DATED April 15, 2013



PLAN

NOTES:

1. Where the distance between back of post and hinge point is less than 42", construct vegetation control to 6" from hinge point while maintaining the 8" block-out at back of post. If the 8" block-out at back of post can not be maintained, construct vegetation control flush with the back edge of post.
2. Where dike is constructed under railing, construct vegetation control to back edge of dike. Where paved shoulder is constructed within 36" in front of the post, construct vegetation control to the edge of paved shoulder.
3. For wood post sizes, see Standard Plan A77C1.
4. For steel post sizes, see Standard Plan A77C2.
5. For details not shown, see Standard Plans A77A1 and A77A2.



SECTION A-A

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**METAL BEAM GUARD RAILING
TYPICAL VEGETATION CONTROL
STANDARD RAILING SECTION**

NO SCALE

RSP A77C5 DATED OCTOBER 19, 2012 SUPERSEDES STANDARD PLAN A77C5
DATED MAY 20, 2011 - PAGE 53 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP A77C5

2010 REVISED STANDARD PLAN RSP A77C5