

INDEX OF PLANS

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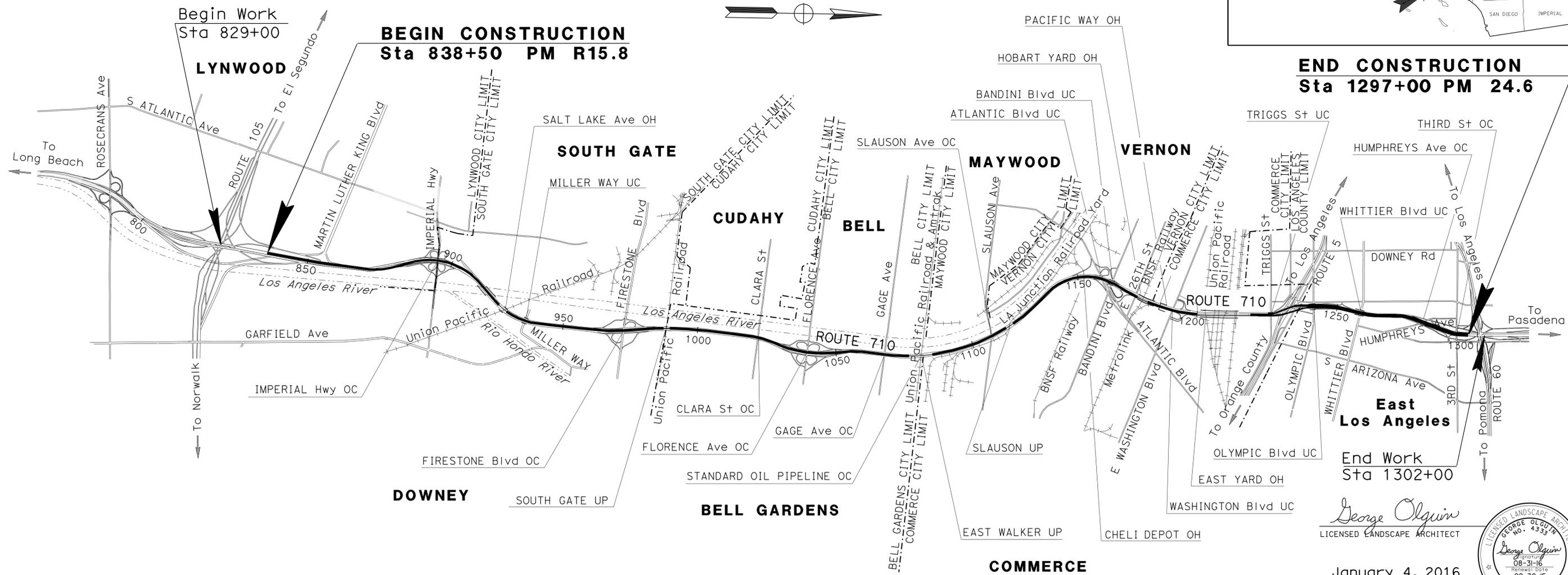
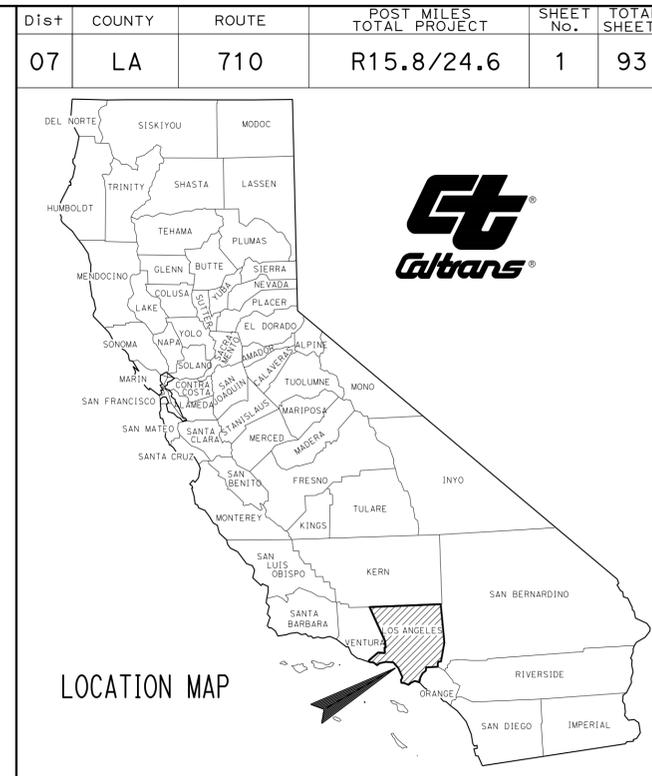
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ACNHPI-710-1(015)E

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
IN LOS ANGELES COUNTY
FROM 0.8 MILE NORTH OF ROSECRANS AVENUE IN LYNWOOD
TO 0.1 MILE NORTH OF THIRD STREET OVERCROSSING
AT EAST LOS ANGELES

TO BE SUPPLEMENTED BY STANDARD PLANS DATED 2010



PROJECT MANAGER
RON RUSSAK

DESIGN MANAGER
GEORGE OLGUIN

George Olguin
LICENSED LANDSCAPE ARCHITECT

January 4, 2016
PLANS APPROVAL DATE

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



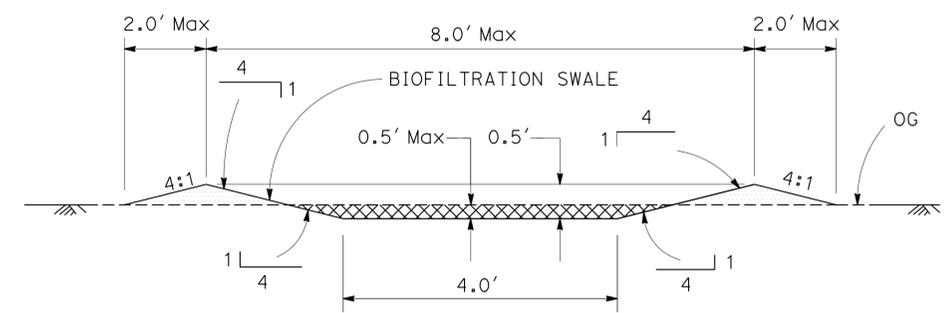
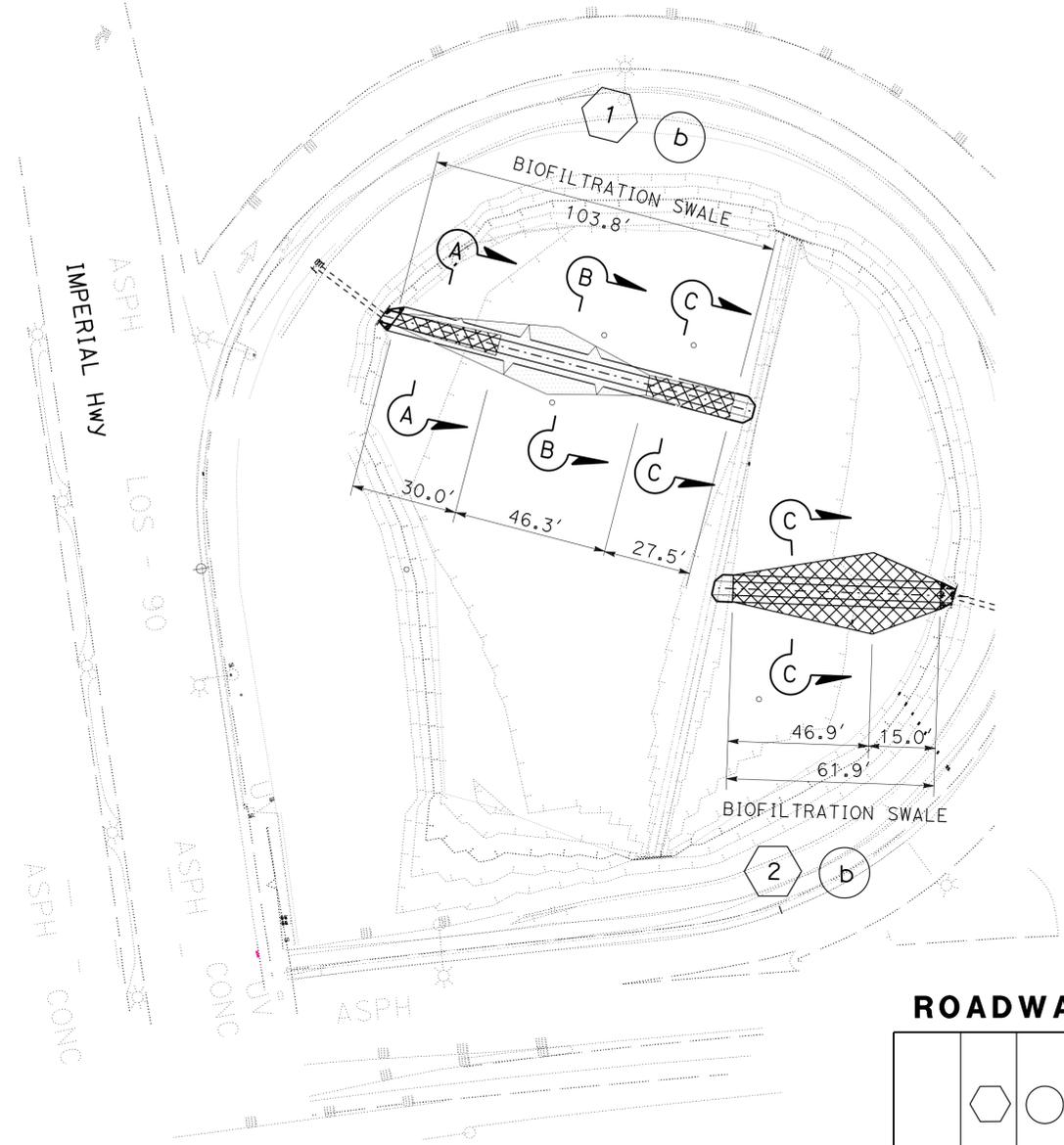
THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

NO SCALE

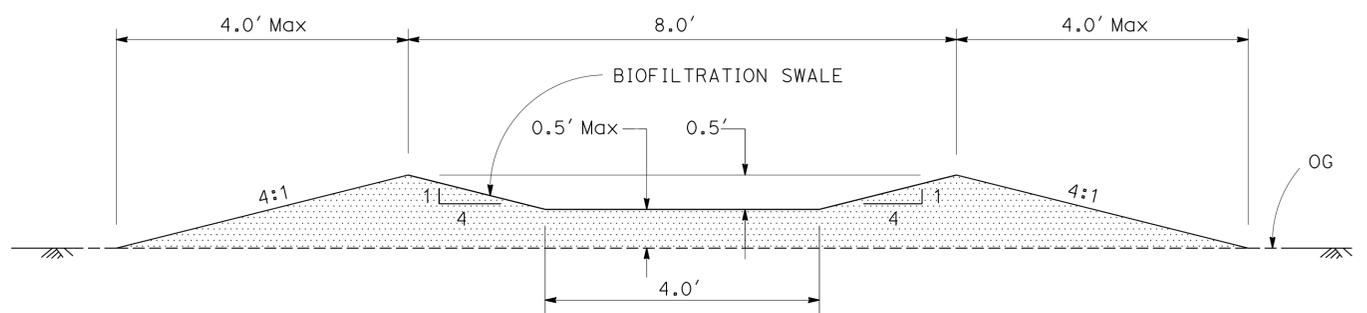
CONTRACT No. **07-289204**
PROJECT ID **0700021113**

LAST REVISION => 28-APR-2016
TIME PLOTTED => 14:25
00-00-00

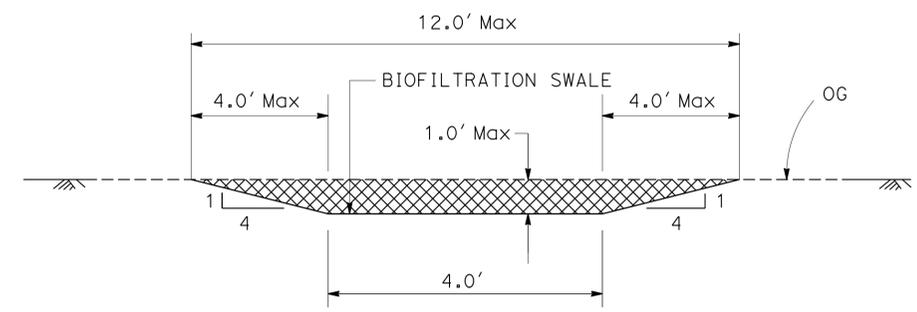
- NOTES:**
- FOR EXACT LAYOUT LOCATION OF BIOFILTRATION SWALES, SEE WATER POLLUTION CONTROL PLAN SHEET.
 - VERIFY LOCATIONS AND ELEVATIONS OF EXISTING DRAINAGE SYSTEMS BEFORE COMMENCEMENT OF WORK.



SECTION A-A



SECTION B-B



SECTION C-C

ROADWAY QUANTITIES

SHEET No.	DRAINAGE SYSTEM No.	DRAINAGE UNIT	ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)	IMPORTED BORROW	REMOVE CHAIN LINK FENCE	CHAIN LINK FENCE (TYPE CL-6)
			CY	CY	LF	LF
C-1	1	b	17.0	17.7		
W-1	2	b	18.3			
E-2					10	26
TOTAL			35.3	17.7	10	26

LEGEND:

- ROADWAY EXCAVATION (TYPE Z-2) (AERIALY DEPOSITED LEAD)
- IMPORTED BORROW
- DRAINAGE SYSTEM No.
- DRAINAGE UNIT

BIOFILTRATION SWALE DETAILS

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 Caltrans LANDSCAPE ARCHITECTURE
 FUNCTIONAL SUPERVISOR: RON RUSSAK
 DESIGNED BY: WILLIAM SHEN
 CHECKED BY: RON RUSSAK
 REVISIONS: [None]
 REVISOR: [None]
 DATE: [None]

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 HYDRAULICS

FUNCTIONAL SUPERVISOR
 MARTA QUINONEZ

CALCULATED-DESIGNED BY
 CHECKED BY

MARTIN CORONADO
 DAVE BHALLA

REVISED BY
 DATE REVISED

NOTES:

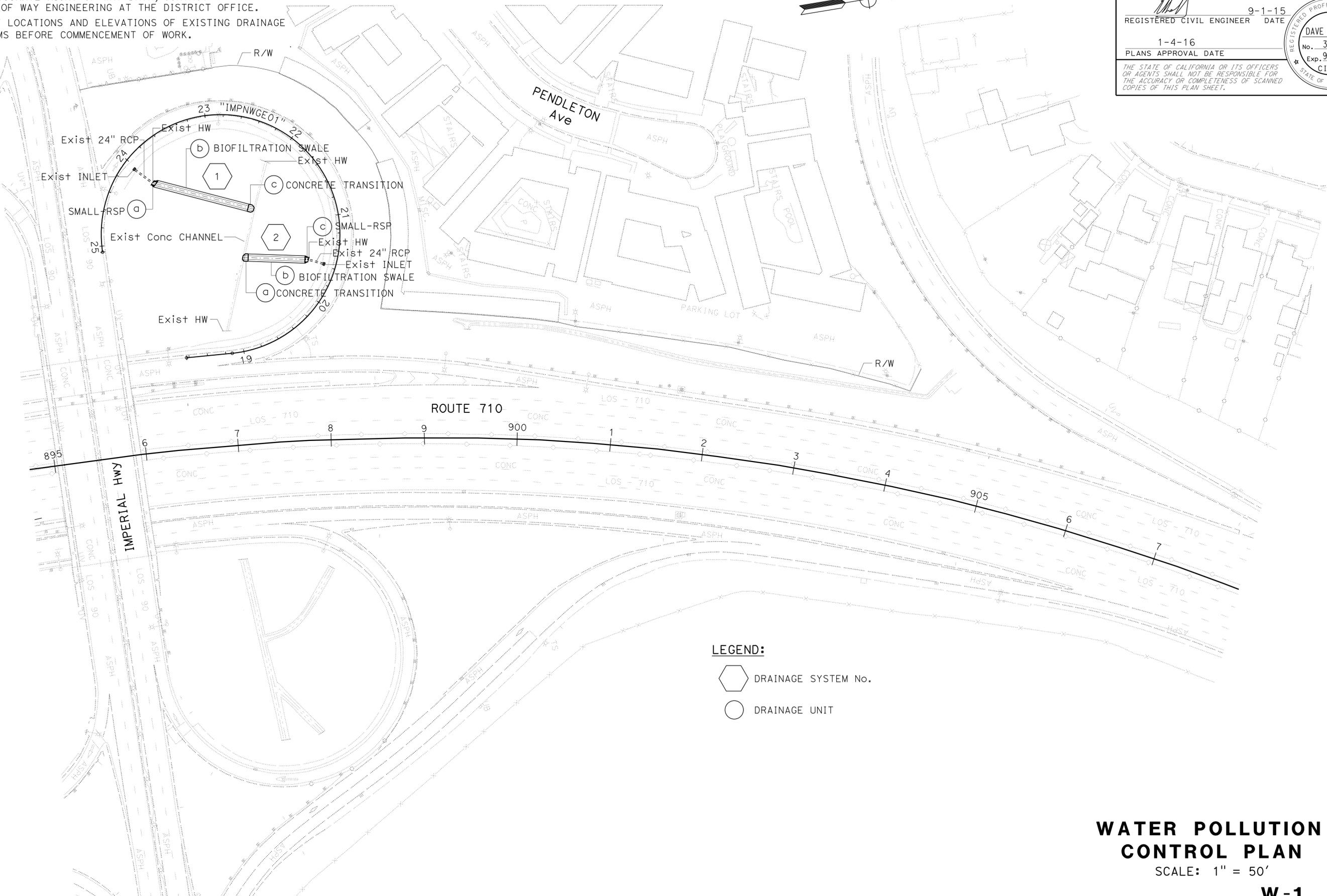
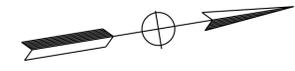
1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. VERIFY LOCATIONS AND ELEVATIONS OF EXISTING DRAINAGE SYSTEMS BEFORE COMMENCEMENT OF WORK.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	3	93

9-1-15
 REGISTERED CIVIL ENGINEER DATE
 1-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 DAVE BHALLA
 No. 34350
 Exp. 9-30-17
 CIVIL
 STATE OF CALIFORNIA

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



LEGEND:

- DRAINAGE SYSTEM No.
- DRAINAGE UNIT

WATER POLLUTION CONTROL PLAN
 SCALE: 1" = 50'
W-1

APPROVED FOR WATER POLLUTION CONTROL WORK ONLY

LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:25

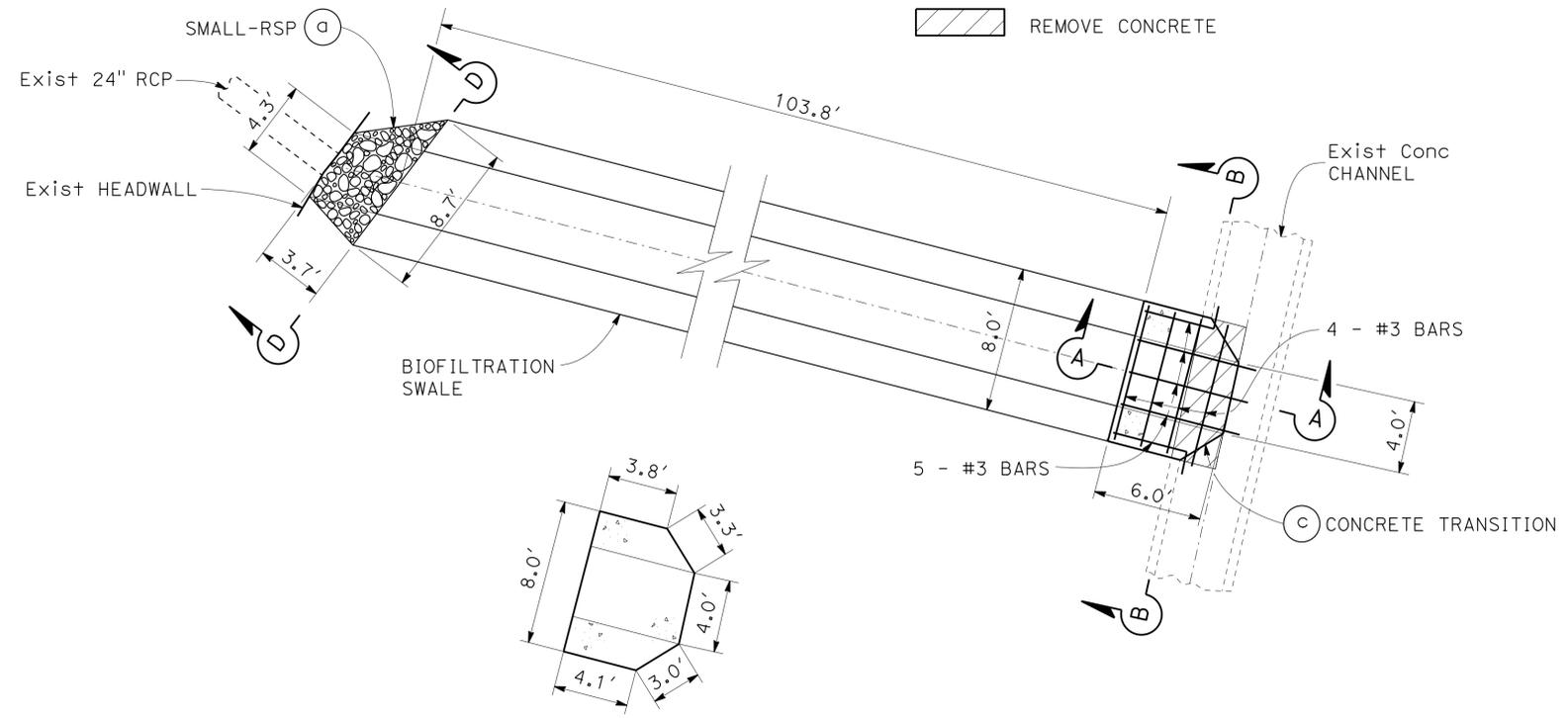
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	5	93

REGISTERED CIVIL ENGINEER	DATE
<i>[Signature]</i>	9-1-15
PLANS APPROVAL DATE	
	1-4-16

REGISTERED PROFESSIONAL ENGINEER	No.	34350
	Exp.	9-30-17
	CIVIL	

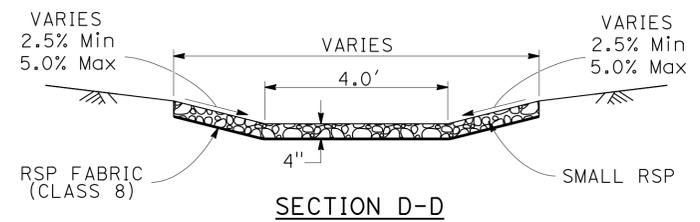
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND
 REMOVE CONCRETE

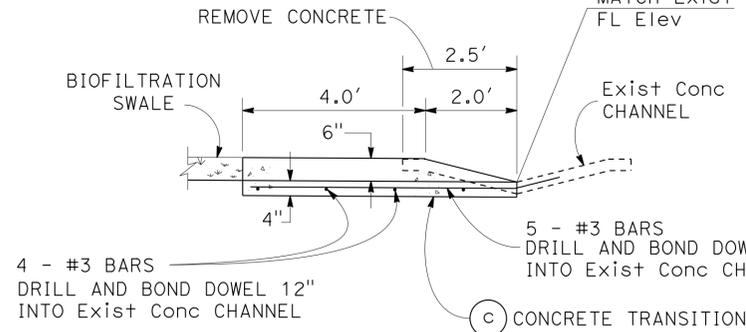


CONCRETE TRANSITION (C)

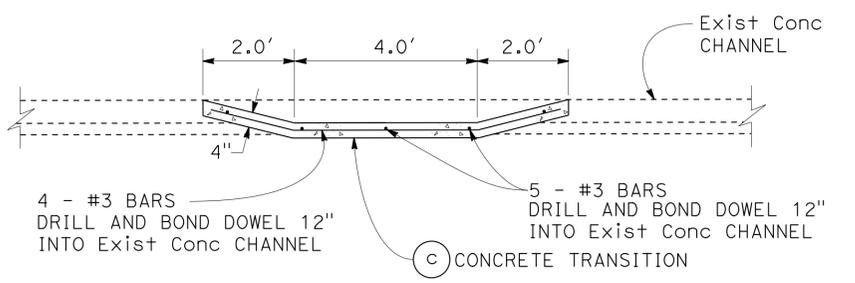
DRAINAGE SYSTEM No. 1



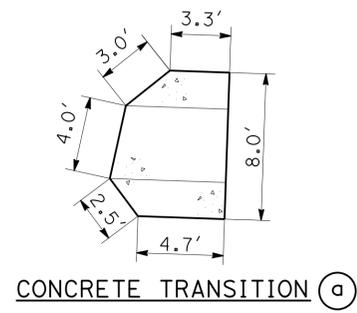
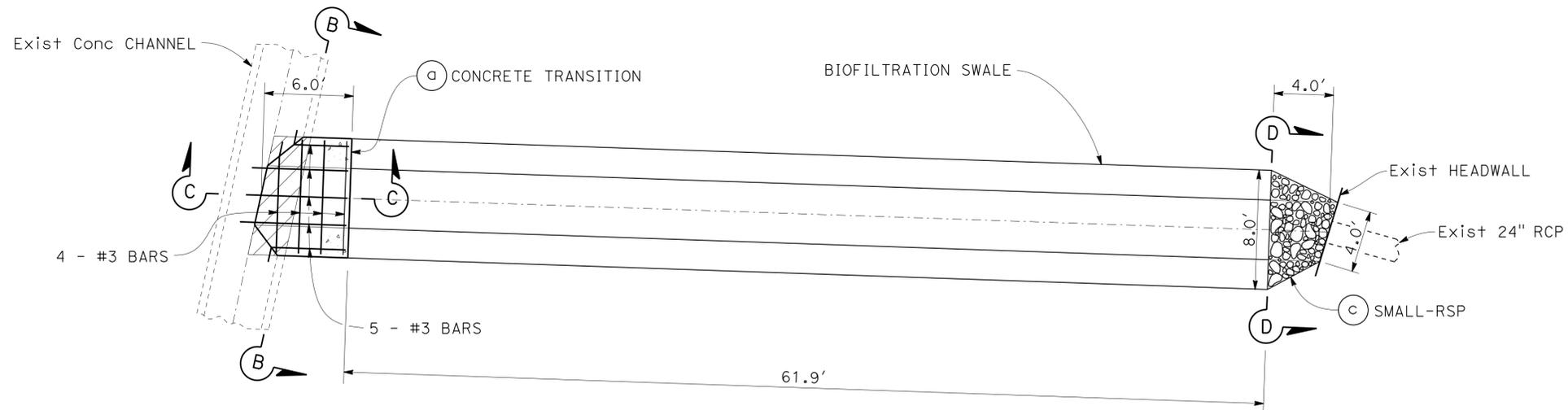
SECTION D-D



SECTION A-A

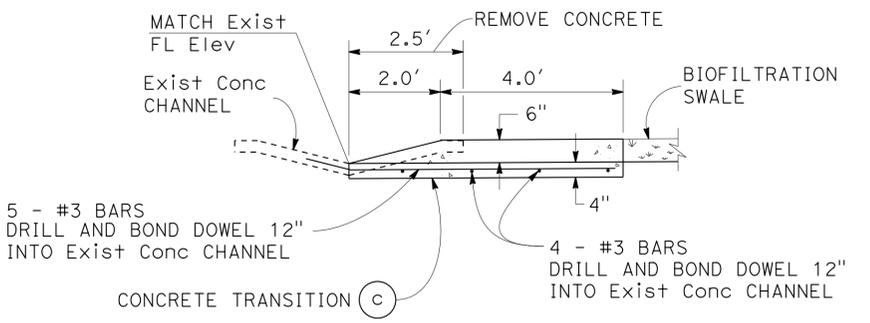


SECTION B-B



CONCRETE TRANSITION (a)

DRAINAGE SYSTEM No. 2



SECTION C-C

DRAINAGE SYSTEM DETAILS

WATER POLLUTION CONTROL DETAILS

NO SCALE

WD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - HYDRAULICS
 CALTRANS

FUNCTIONAL SUPERVISOR: MARIA QUINONEZ
 REVISIONS: MARTIN CORONADO, DAVE BHALLA
 CHECKED BY: DAVE BHALLA

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	6	93

 9-1-15
 REGISTERED CIVIL ENGINEER DATE
 1-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
DAVE BHALLA
 No. 34350
 Exp. 9-30-17
 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.

SUMMARY OF WATER POLLUTION CONTROL QUANTITIES

WATER POLLUTION CONTROL PLAN SHEET No.	DRAINAGE SYSTEM No.	DESCRIPTION	DRAINAGE UNIT No.	REMOVE CONCRETE (CHANNEL)	MINOR CONCRETE (MINOR STRUCTURE)	SMALL-ROCK SLOPE PROTECTION	ROCK SLOPE PROTECTION FABRIC (CLASS 8)
				CY	CY	CY	SQYD
1	1	SMALL-ROCK SLOPE PROTECTION	a			0.29	2.61
		BIOFILTRATION SWALE	b				
		CONCRETE TRANSITION	c	0.37	0.60		
2	2	CONCRETE TRANSITION	a	0.37	0.60		
		BIOFILTRATION SWALE	b				
		SMALL-ROCK SLOPE PROTECTION	c			0.29	2.67
TOTAL				0.74	1.20	0.58	5.28

WATER POLLUTION CONTROL QUANTITIES

WQ-1



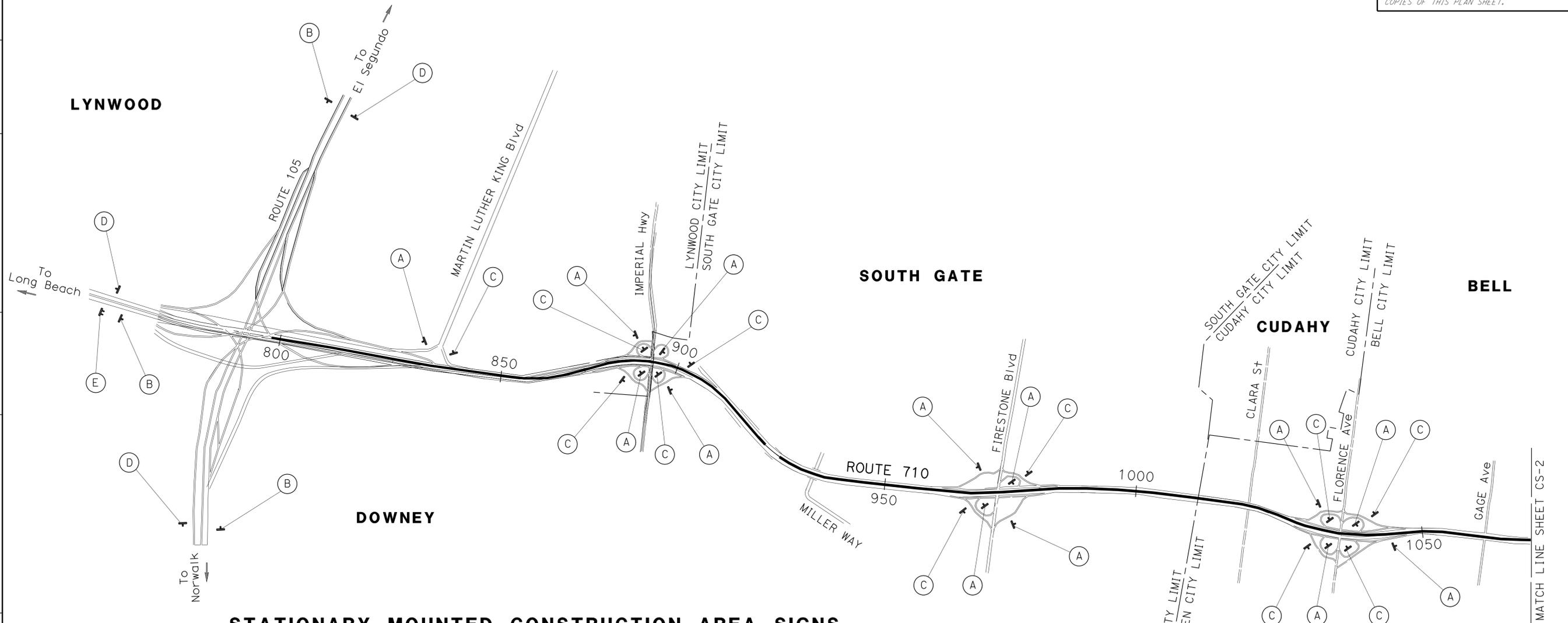
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	7	93

Richard B. Khaw 10/13/15
REGISTERED CIVIL ENGINEER DATE

1-4-16
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.

RICHARD B. KHAW
No. C80736
Exp. 3/31/17
CIVIL



STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No. (X)	SIGN CODE		PANEL SIZE	SIGN MESSAGE	NUMBER OF POSTS AND SIZE	NUMBER OF SIGNS
	FEDERAL	CALIFORNIA				
A	W20-1		36" x 36"	ROAD WORK AHEAD	1 - 4" x 4"	20
B	W20-1		48" x 48"	ROAD WORK AHEAD	1 - 4" x 6"	8
C	G20-2		36" x 18"	END ROAD WORK	1 - 4" x 4"	18
D	G20-2		48" x 24"	END ROAD WORK	1 - 4" x 6"	8
E		C40 (CA)	144" x 60"	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 6" x 6"	2

NOTE:
1. LOCATION OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.

CONSTRUCTION AREA SIGNS
NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
CALCULATED/DESIGNED BY: MOSTAFA ARYA
CHECKED BY: RICHARD B. KHAW
REVISOR: MA
DATE REVISED: 9/4/15
S:\projects\289201\Drawings\Traffic\Roadway\7289201.dgn

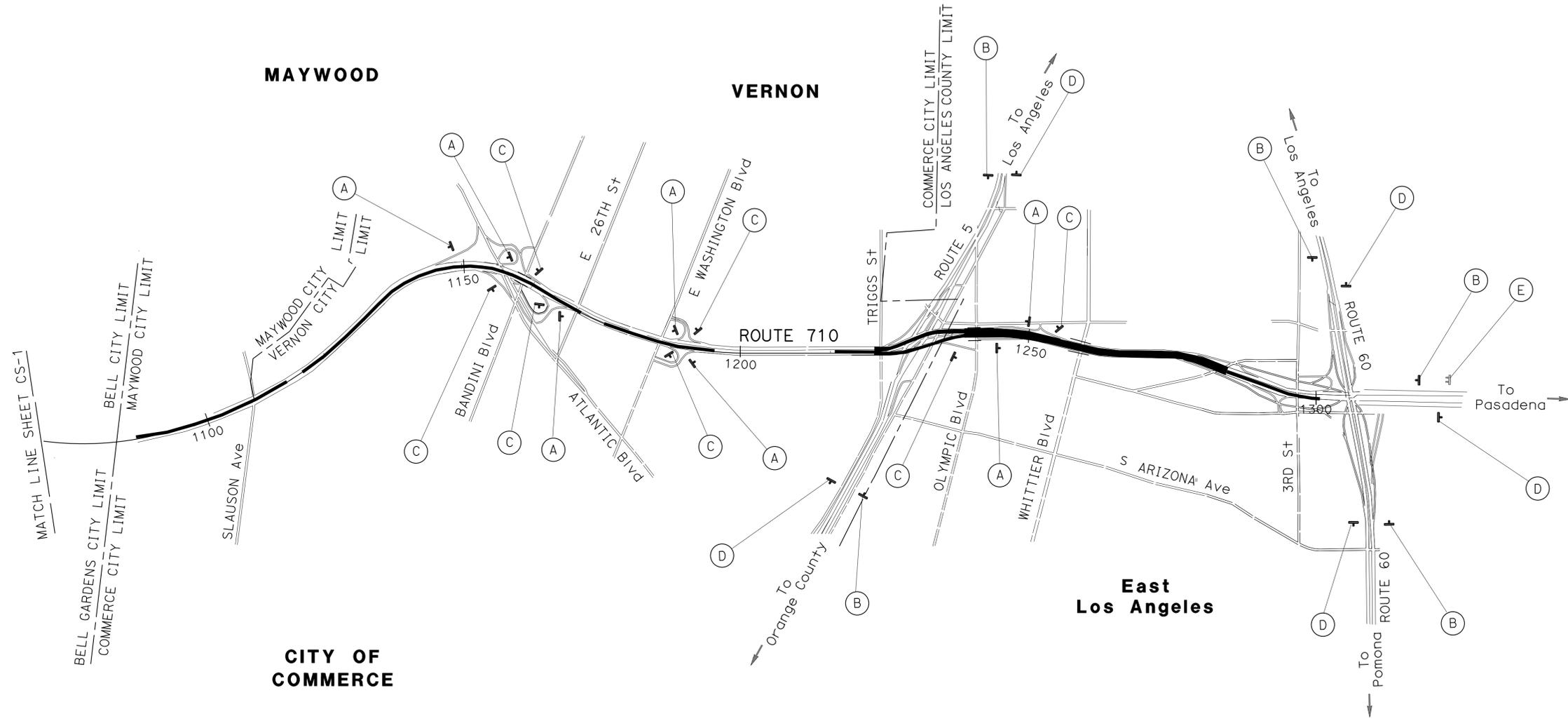
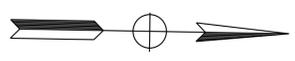
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: MOHAMMED CHOWDHURY
 CALCULATED/DESIGNED BY: MOSTAFA ARYA
 CHECKED BY: RICHARD B. KHAW
 REVISIONS: MA 9/4/15

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	8	93

Richard B. Khaw 10/13/15
 REGISTERED CIVIL ENGINEER DATE
 1-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 RICHARD B. KHAW
 No. C80736
 Exp. 3/31/17
 CIVIL
 STATE OF CALIFORNIA

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CONSTRUCTION AREA SIGNS
 NO SCALE

APPROVED FOR CONSTRUCTION AREA SIGN WORK ONLY

CS-2

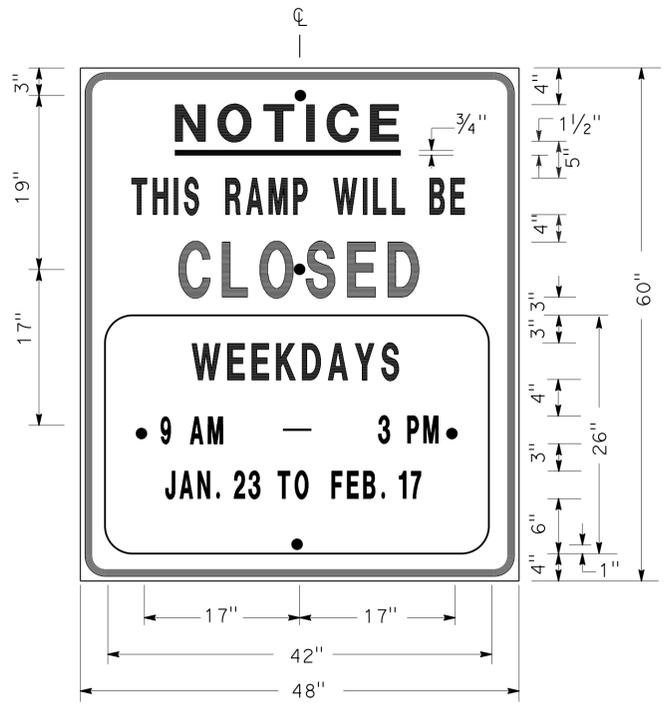
LAST REVISION DATE PLOTTED => 28-APR-2016 00-00-00 TIME PLOTTED => 14:25

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	9	93

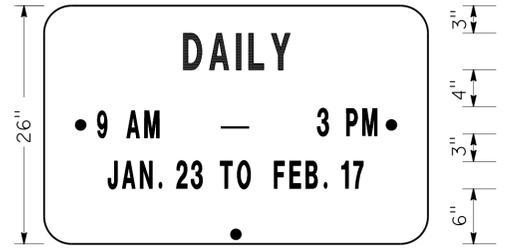
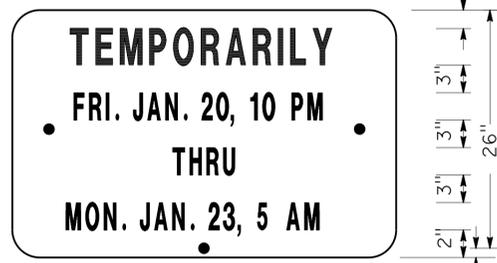
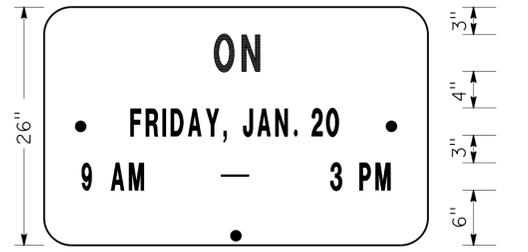
REGISTERED CIVIL ENGINEER
Dennis Katayama 1-22-15
 DATE
 1-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 D.S. KATAYAMA
 No. C50648
 Exp. 9-30-17
 CIVIL
 STATE OF CALIFORNIA

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SIGN SP-1



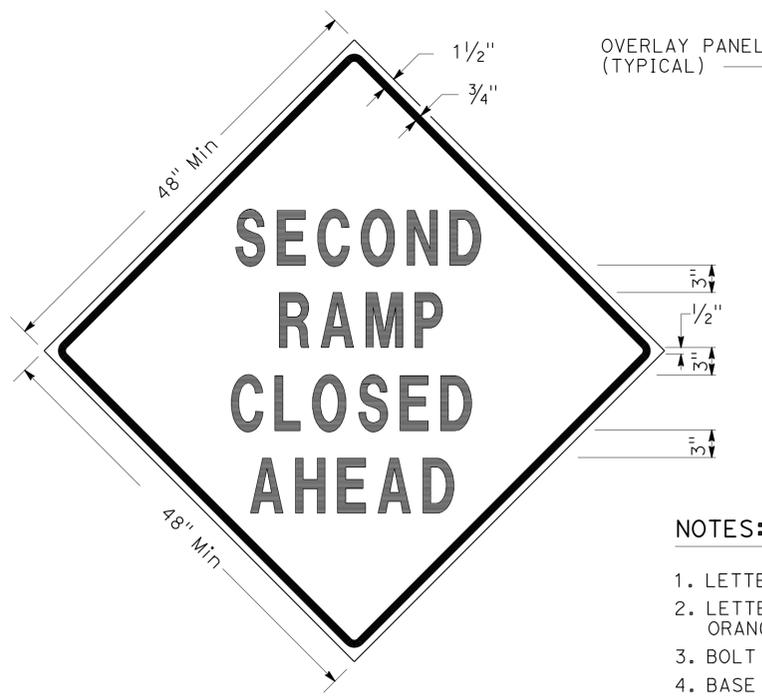
ALTERNATE OVERLAY PANELS (TYPICAL)

- NOTES: SIGN SP-1
- LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
 - BOLT HOLES MUST BE 3/8" DIAMETER.
 - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5, 6, & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"

* CONDENSED SPACING IF NECESSARY

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3



SIGN SP-5

- NOTES: SIGNS SP-3 & SP-5
- LETTERS - 6" SERIES D.
 - LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED ORANGE BACKGROUND.
 - BOLT HOLES MUST BE 3/8" DIAMETER.
 - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND.
 - SIGN SP-5 MUST BE USED IF THE OFF-RAMP TO BE CLOSED FOLLOWS A FREEWAY OFF-CONNECTOR.

SPECIAL SIGNS FOR EXIT RAMP CLOSURES



SIGN SP-4

- NOTES: SIGN SP-4
- LETTERS - 6" SERIES C.
 - LETTERS AND BORDER MUST BE BLACK ON REFLECTORIZED WHITE BACKGROUND.
 - BOLT HOLES MUST BE 3/8" DIAMETER.
 - BASE MATERIAL MUST BE ALUMINUM (MINIMUM 0.06").
 - SIGNS MUST BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH REVISED STANDARD PLAN RSP T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

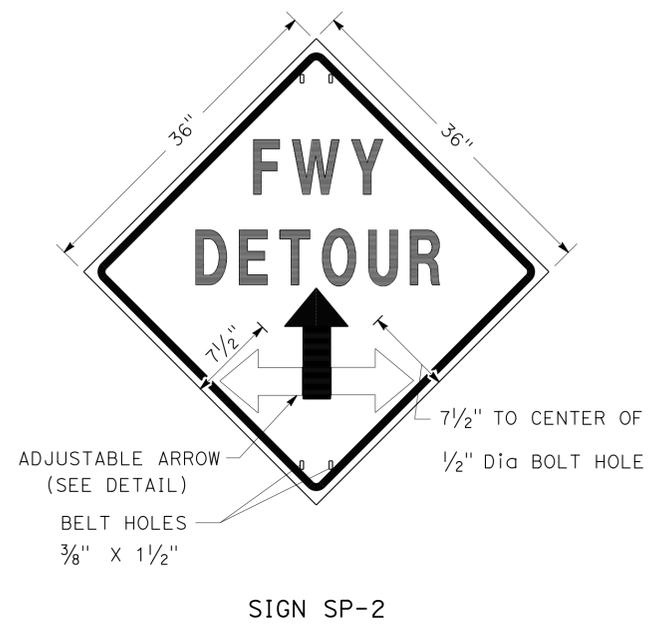
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURES, DETOUR SIGNS,
 AND MISCELLANEOUS DETAILS**

SHEET 1 OF 2

NO SCALE

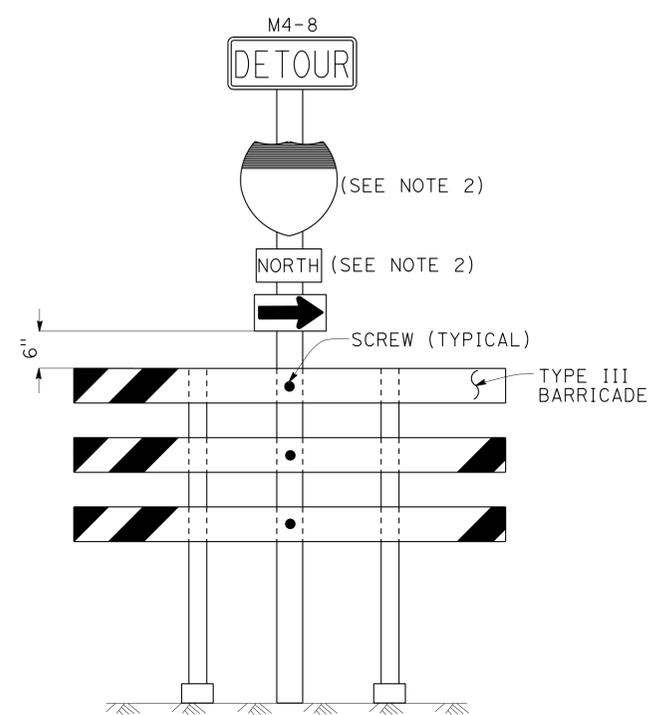
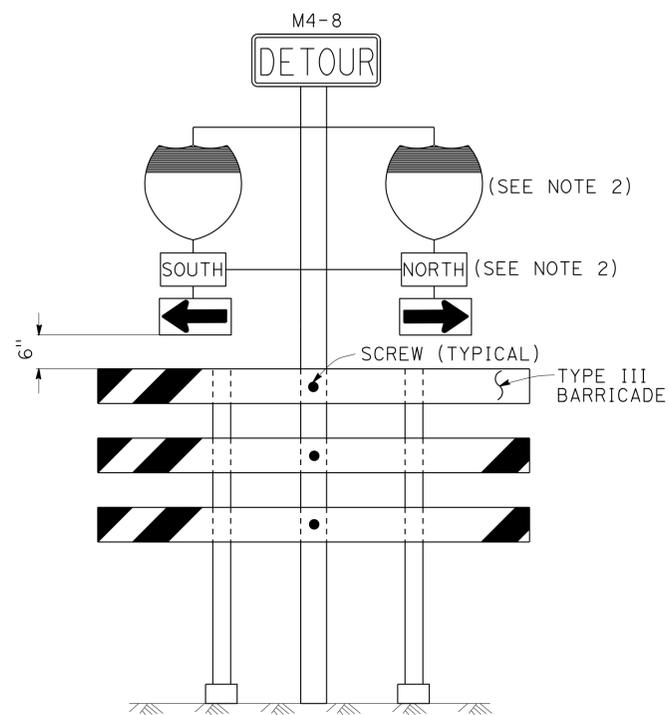
THD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DTM
 FUNCTIONAL SUPERVISOR
 SAMUEL ESQUENAZI
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISED
 JC
 2/14



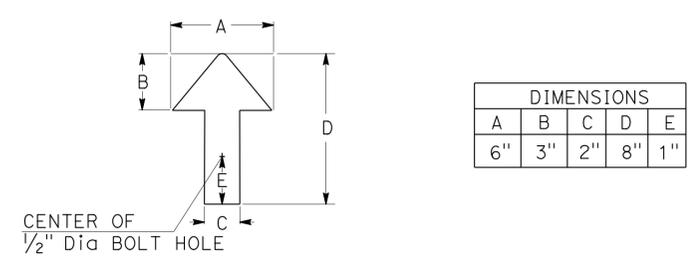
- NOTES:** SIGN SP-2
- LETTERS - 6" SERIES E.
 - LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
 - BASE MATERIAL FOR SIGNS AND ARROWS MUST BE ALUMINUM (MINIMUM 0.06").
 - BELTS (LUGGAGE STRAPS) MUST BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
 - SIGNS MUST BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 7' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

ABBREVIATION
 (CA) CALIFORNIA CODE



- NOTES:** SIGNS SP-6 & SP-7
- IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
 - USE APPROPRIATE ROUTE MARKER [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)].

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR RAMP CLOSURES, DETOUR SIGNS,
AND MISCELLANEOUS DETAILS
SHEET 2 OF 2
 NO SCALE

THD-2

LAST REVISION | DATE PLOTTED => 28-APR-2016
 00-00-00 | TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	11	93

Senju Katayama 1-22-15
 REGISTERED CIVIL ENGINEER DATE
 1-4-16
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
 D.S. KATAYAMA
 No. C50648
 Exp. 9-30-17
 CIVIL
 STATE OF CALIFORNIA

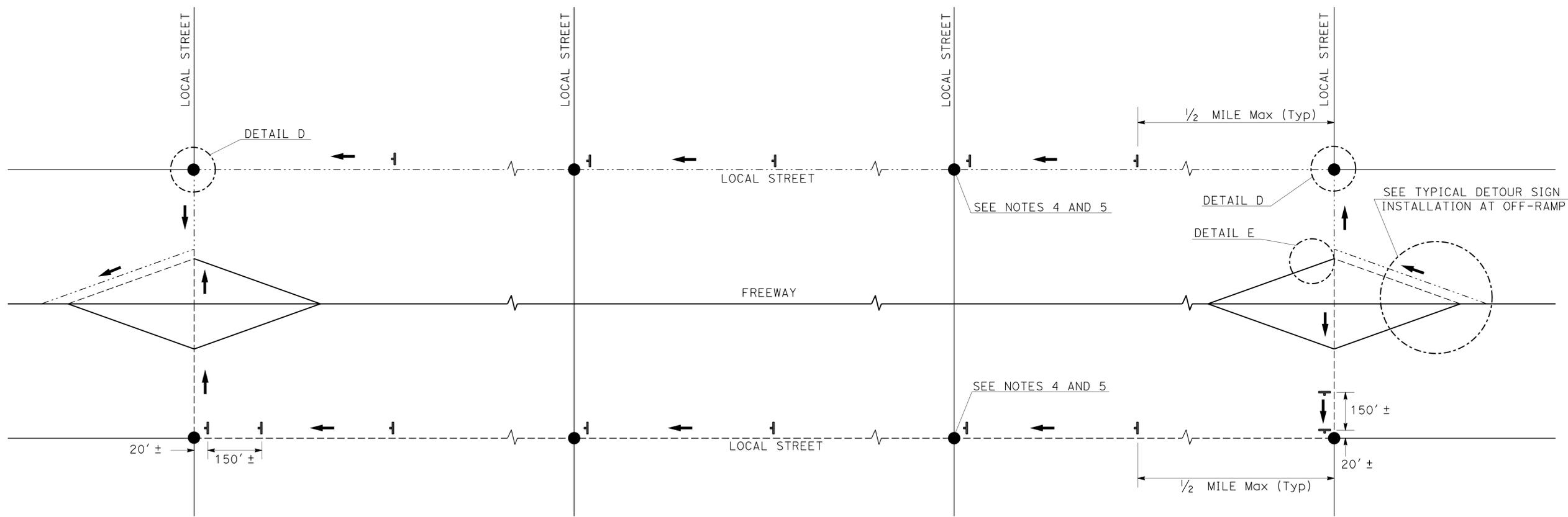
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND

- ↓ SIGN SP-2
- AND/OR DESIGNATED DETOUR ROUTE
- DETOUR DIRECTION
- CONTROLLED INTERSECTION

NOTES:

1. SP-2 SIGNS MAY BE STRAPPED ON EXISTING ELECTROLIER, SIGNAL POST OR SIGN POST.
2. SP-2 SIGNS MUST NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
3. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
4. SP-2 SIGNS MUST BE POSTED AT EACH CONTROLLED INTERSECTION (EXCEPT AT COMMERCIAL PROPERTY, RESIDENTIAL COMPLEX OR T-INTERSECTION FROM ONE-WAY STREET) ALONG THE DESIGNATED DETOUR ROUTE.
5. UNLESS OTHERWISE SHOWN ON OTHER THD PLANS, WHEN CONTROLLED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE ARE CLOSELY SPACED, PLACE SP-2 SIGNS AT CONTROLLED INTERSECTIONS AT A DISTANCE NOT TO EXCEED 1/4 MILE FROM THE PRECEDING DETOUR SIGN.
6. EXCEPT AS OTHERWISE SHOWN ON OTHER PLANS OR SPECIFIED IN THE SPECIAL PROVISIONS, SP-2 SIGNS MUST BE PLACED AS SHOWN ON THIS PLAN.



TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

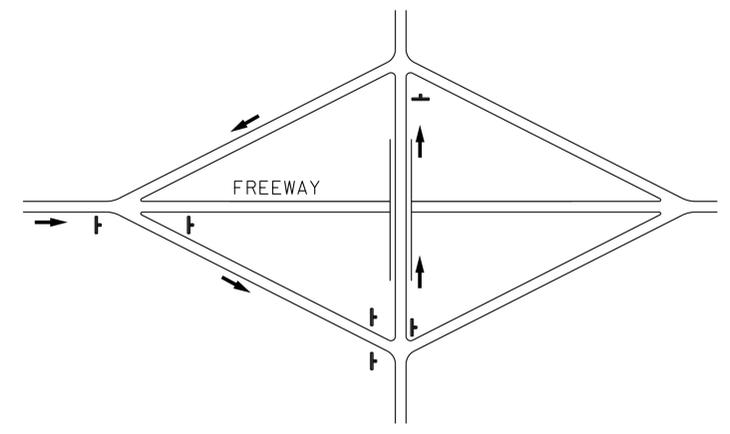
**TRAFFIC HANDLING DETAILS
 TRAFFIC CONTROL SYSTEM
 FOR DETOUR SIGN INSTALLATION
 ALONG DESIGNATED DETOUR ROUTE
 SHEET 1 OF 3**

NO SCALE

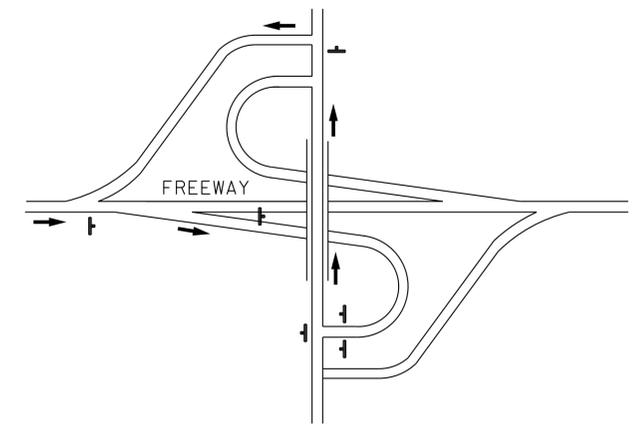
THD-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR: SAMUEL ESQUENAZI
 CHECKED BY: JOCELYN C CHIANG
 DESIGNED BY: ALBERT K YU
 REVISOR: JC
 DATE: 2/14

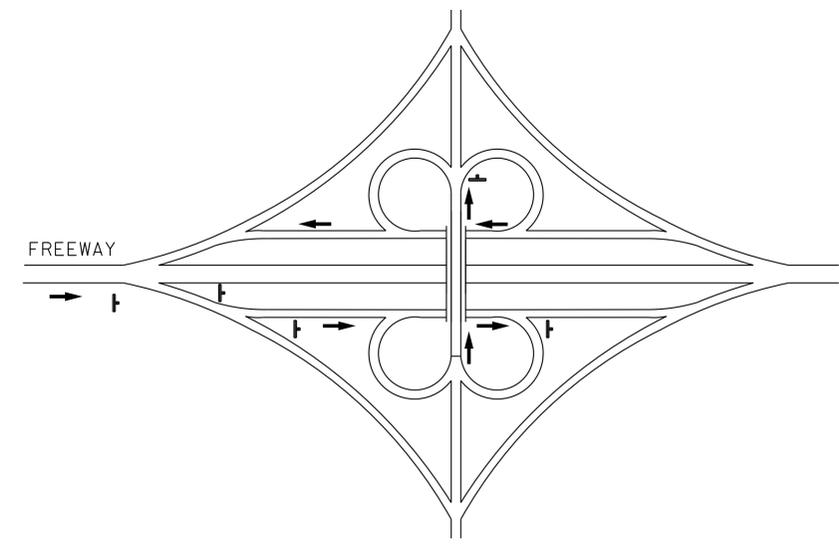
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
 DT M
 FUNCTIONAL SUPERVISOR
 SAMUEL ESQUENAZI
 CALCULATED/DESIGNED BY
 CHECKED BY
 REVISOR BY
 DATE REVISED
 JC
 2/14



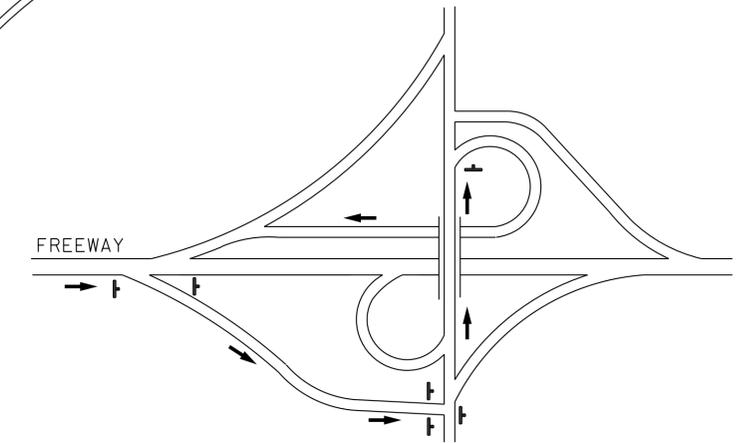
TYPE I



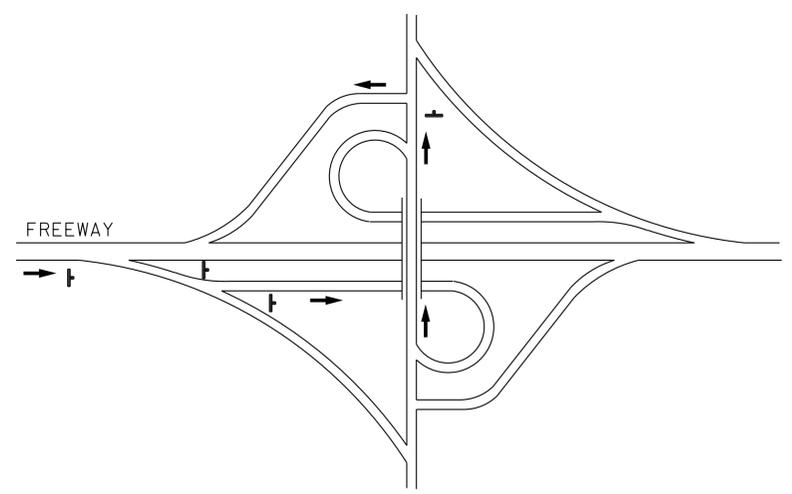
TYPE II



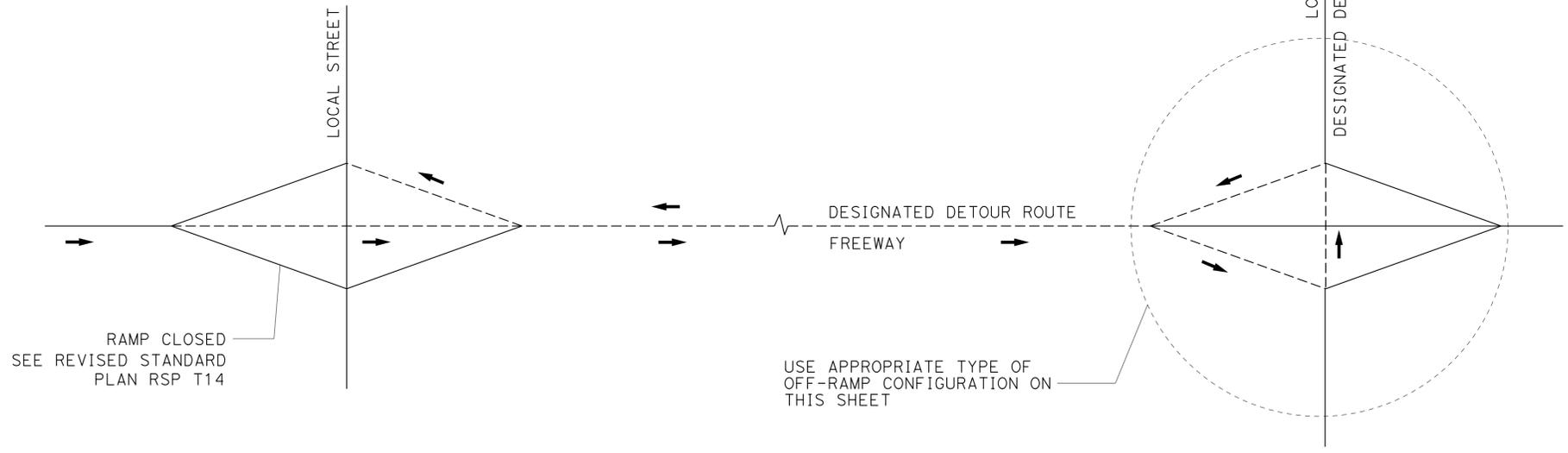
TYPE III



TYPE IV



TYPE V



TYPE OF OFF-RAMP CONFIGURATION	MINIMUM No. OF SP-2
TYPE I	6
TYPE II	6
TYPE III	5
TYPE IV	6
TYPE V	4

TYPICAL DETOUR SIGN INSTALLATION FOR OFF-RAMP CLOSURE

NOTES:

- FOR RAMP CONFIGURATIONS NOT SHOWN, THE EXACT LOCATIONS AND MINIMUM NUMBER OF SP-2 SIGNS MUST BE DETERMINED BY THE ENGINEER.
- SEE TRAFFIC HANDLING DETAILS-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS, AND MISCELLANEOUS DETAILS PLAN SHEET 2 OF 2 FOR SP-2 SIGN DETAILS.

LEGEND

- SIGN SP-2
- DETOUR DIRECTION
- DESIGNATED DETOUR ROUTE

**TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM
FOR DETOUR SIGN INSTALLATION
ALONG DESIGNATED DETOUR ROUTE
SHEET 3 OF 3**

NO SCALE

THD-5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	14	93

<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	

LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4533
 EXPIRES 08-31-16
 Renewal Date 09-30-15
 STATE OF CALIFORNIA



NOTES:

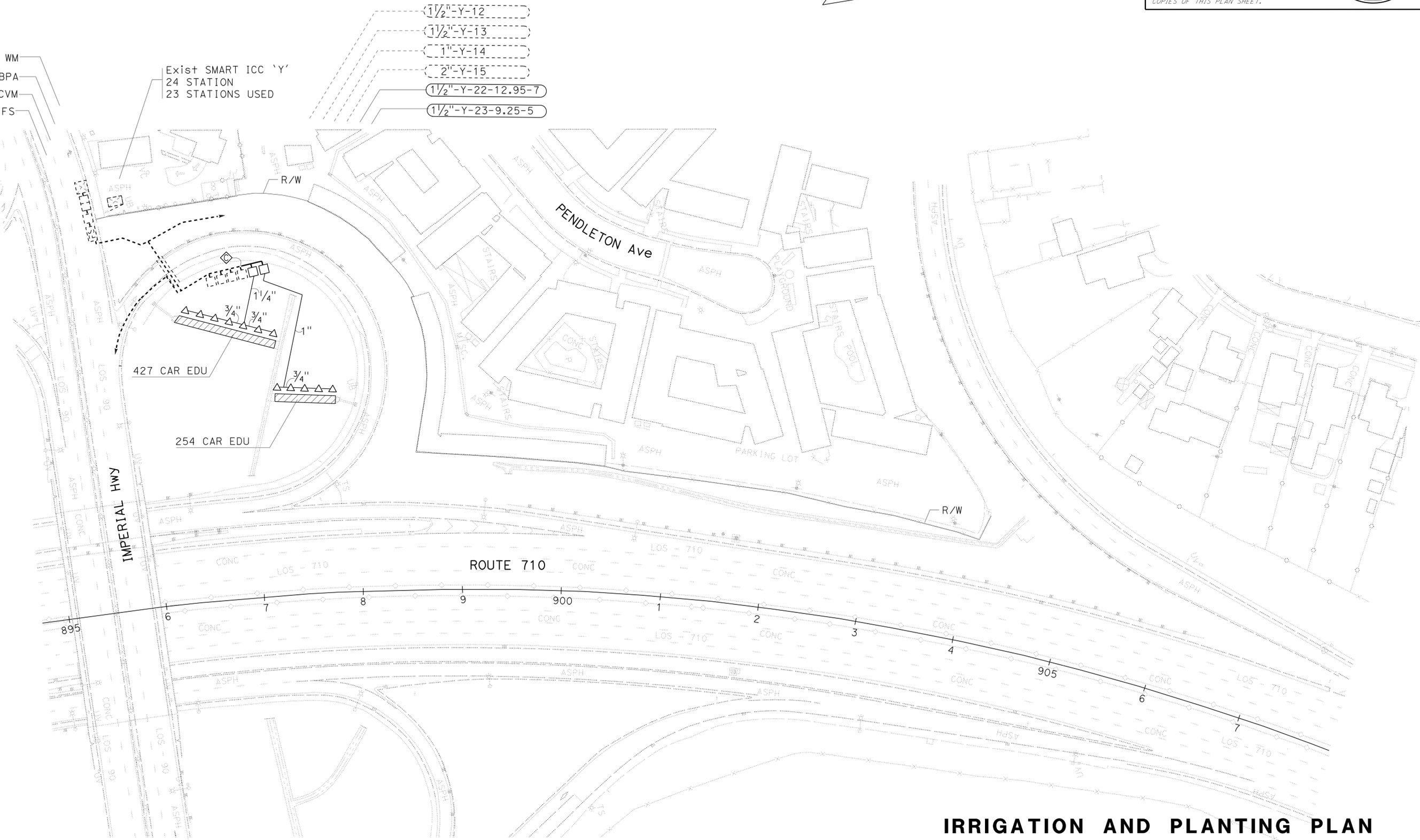
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLAN.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	XUAN WU	REVISED BY	
Et Gtrans LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	GEORGE OLGUIN	DATE REVISED	

Exist 2" WM
Exist 2" BPA
Exist 2" RCVM
Exist 2" FS

Exist SMART ICC 'Y'
24 STATION
23 STATIONS USED

- 1 1/2" - Y-12
- 1 1/2" - Y-13
- 1" - Y-14
- 2" - Y-15
- 1 1/2" - Y-22-12.95-7
- 1 1/2" - Y-23-9.25-5



IRRIGATION AND PLANTING PLAN
SCALE: 1" = 50'
IPP-1

APPROVED FOR IRRIGATION AND PLANTING WORK ONLY

LAST REVISION DATE PLOTTED => 28-APR-2016
00-00-00 TIME PLOTTED => 14:26

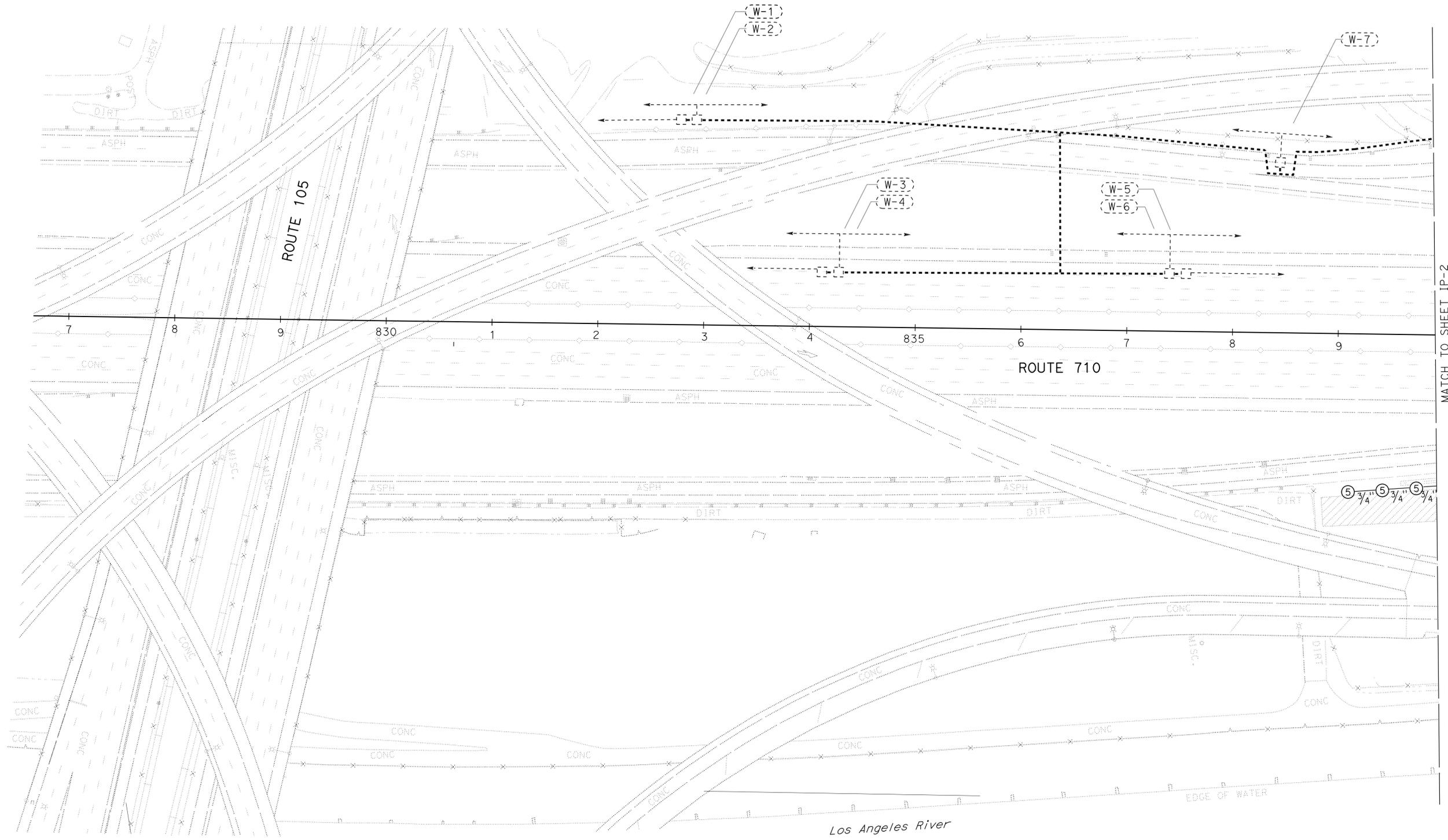
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	15	93

<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 PLANS APPROVAL DATE	
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LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4333
 State of California
 08-31-16
 09-30-16
 DATE

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.
3. ALL NEW VALVES, FLOW SENSORS AND EXISTING RCVM INSTALL NEW CNC BACK TO CONTROLLER.
4. CNC NOT SHOWN ON ALL IRRIGATION PLANS FOR GRAPHIC CLARITY.



MATCH TO SHEET IP-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK
 CHECKED BY: GEORGE OLGUIN
 DESIGNED BY: XUAN WU
 REVISED BY: DATE REVISED:

IRRIGATION PLAN
SCALE: 1" = 50'

IP-1

APPROVED FOR IRRIGATION WORK ONLY

LAST REVISION: DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK
 CHECKED BY: GEORGE OLGUIN
 XUAN WU
 REVISOR BY: XUAN WU
 DATE REVISOR: [blank]

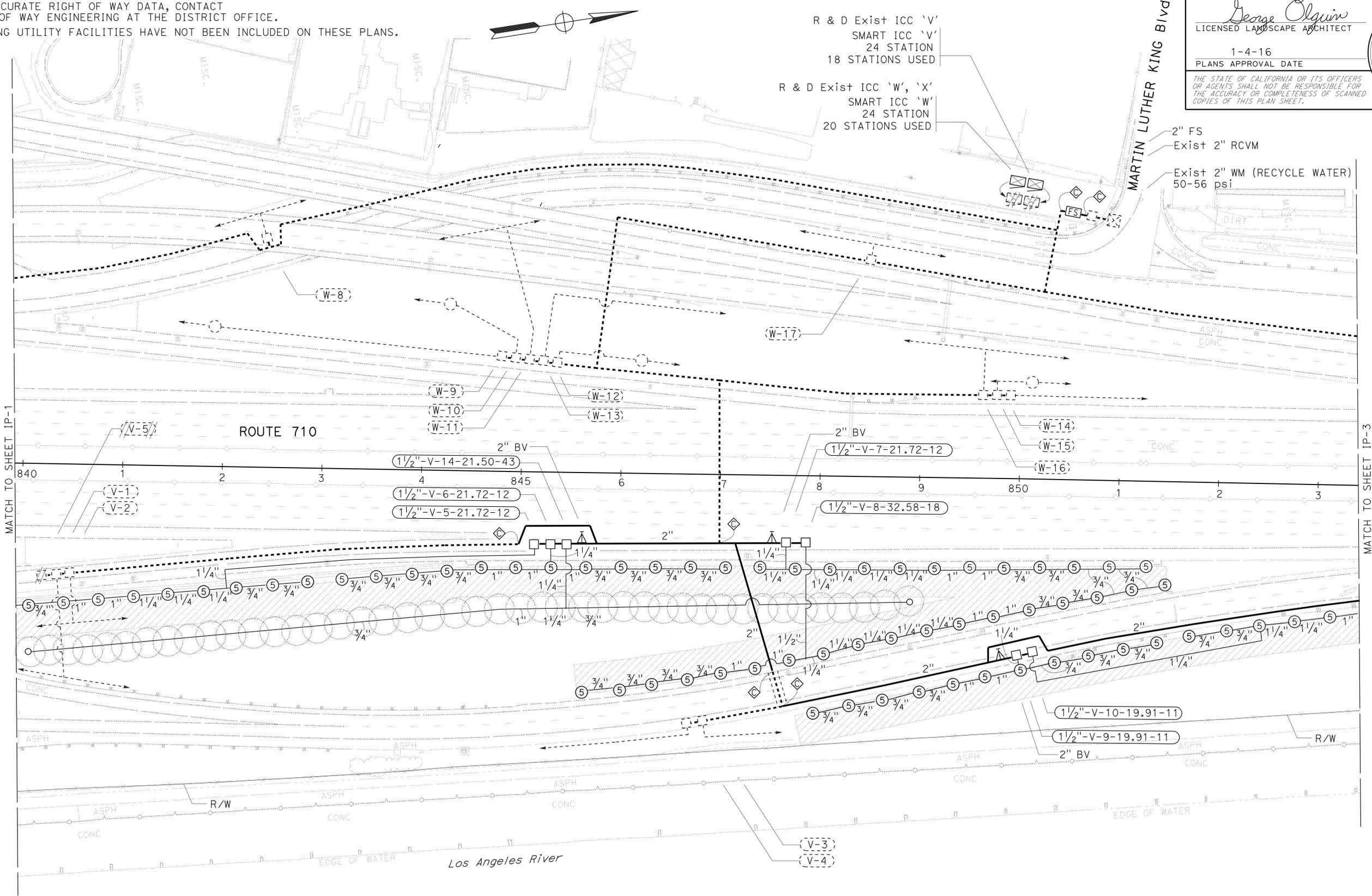
NOTES:

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	16	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 No. 4333
 1-4-16
 PLANS APPROVAL DATE

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APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'

IP-2

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	17	93

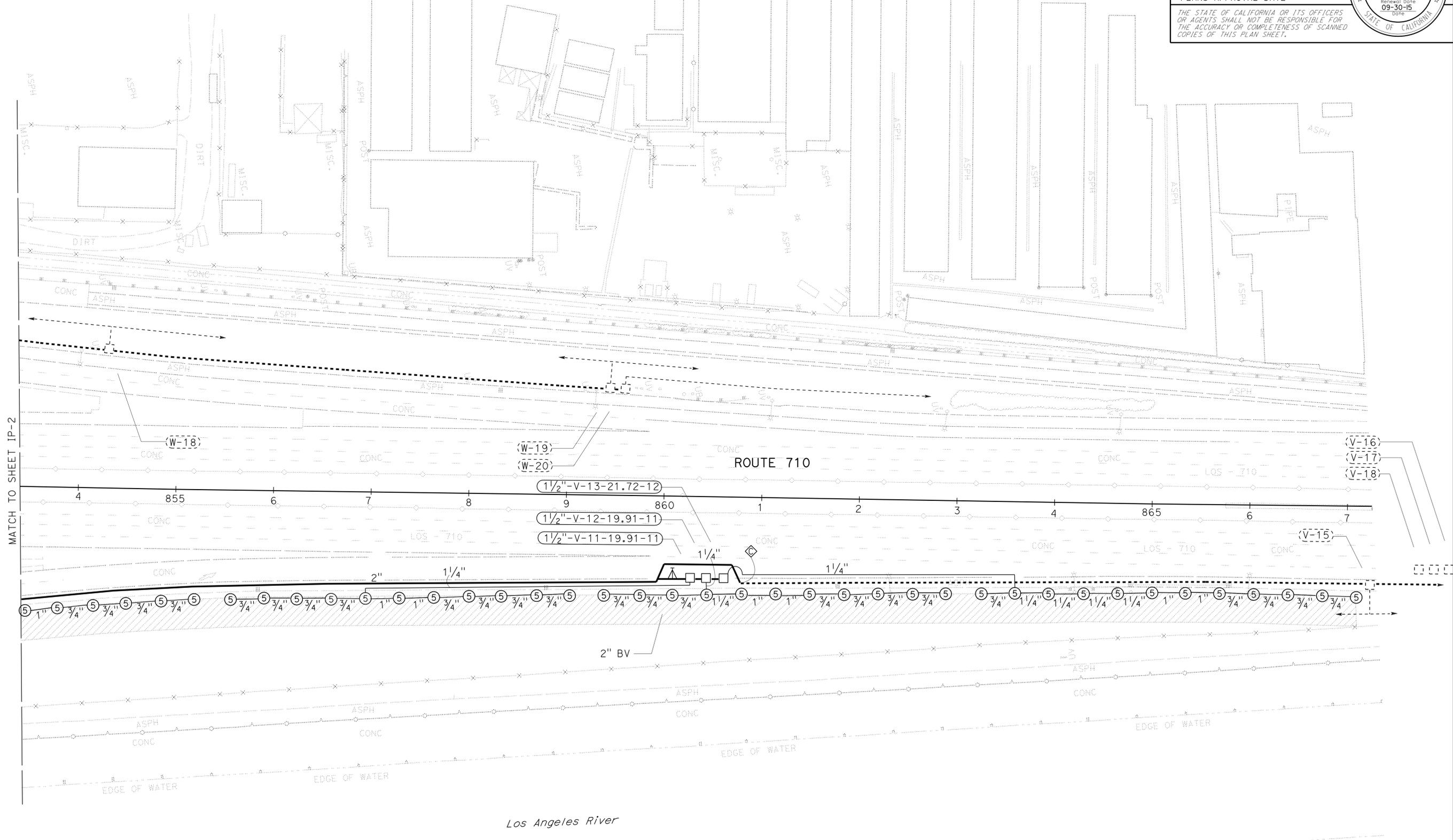
George Olguin
LICENSED LANDSCAPE ARCHITECT

1-4-16
PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	XUAN WU	REVISOR BY	
Caltrans LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	GEORGE OLGUIN	DATE REVISED	

APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
SCALE: 1" = 50'
IP-3

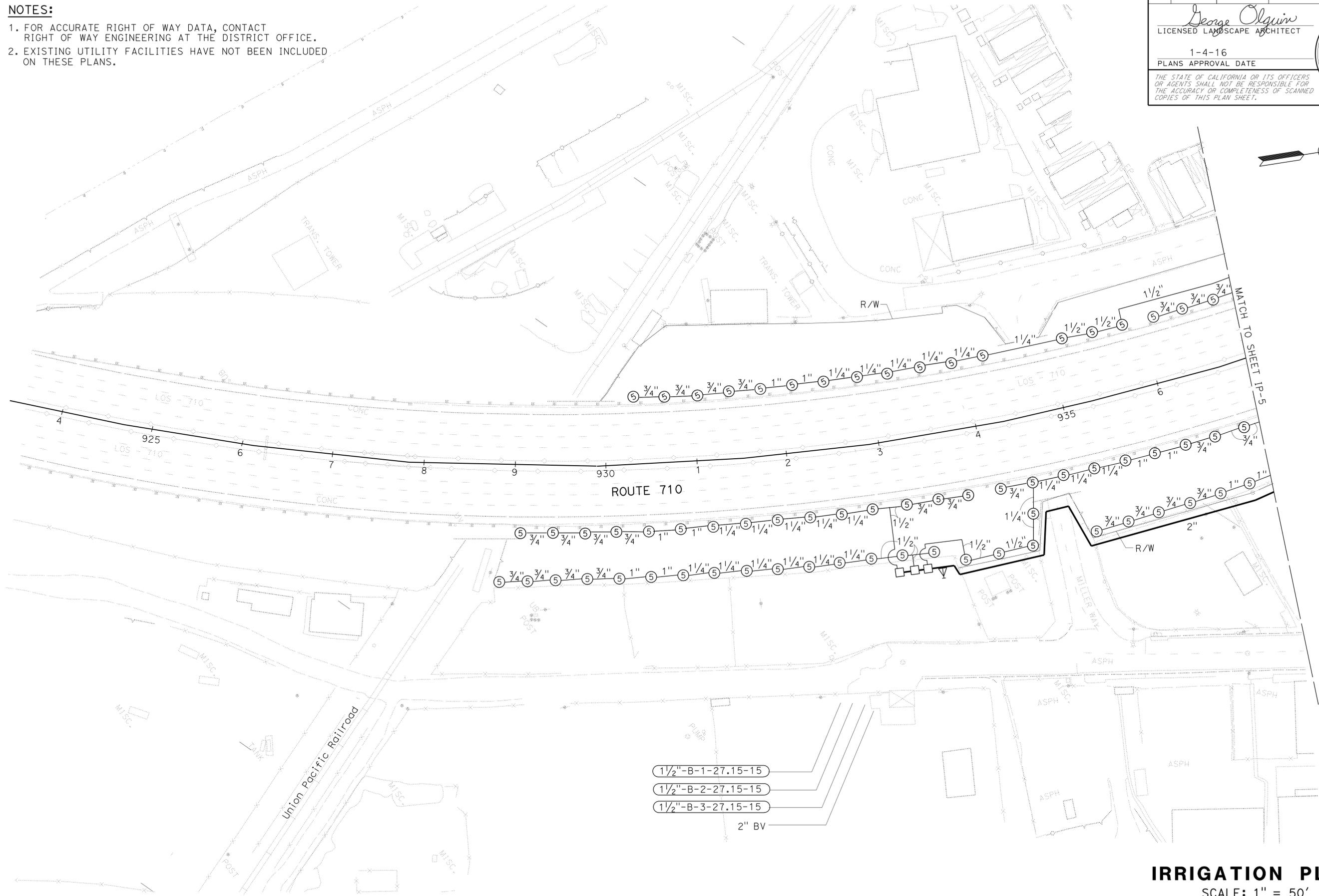
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	18	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CHECKED BY	DESIGNED BY	REVISOR	DATE
Caltrans		RON RUSSAK		XUAN WU	GEORGE OLGUIN	



APPROVED FOR IRRIGATION WORK ONLY

IRRIGATION PLAN
 SCALE: 1" = 50'

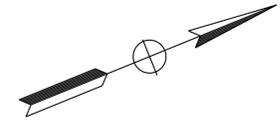
IP-4

LAST REVISION: DATE PLOTTED => 28-APR-2016 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	20	93

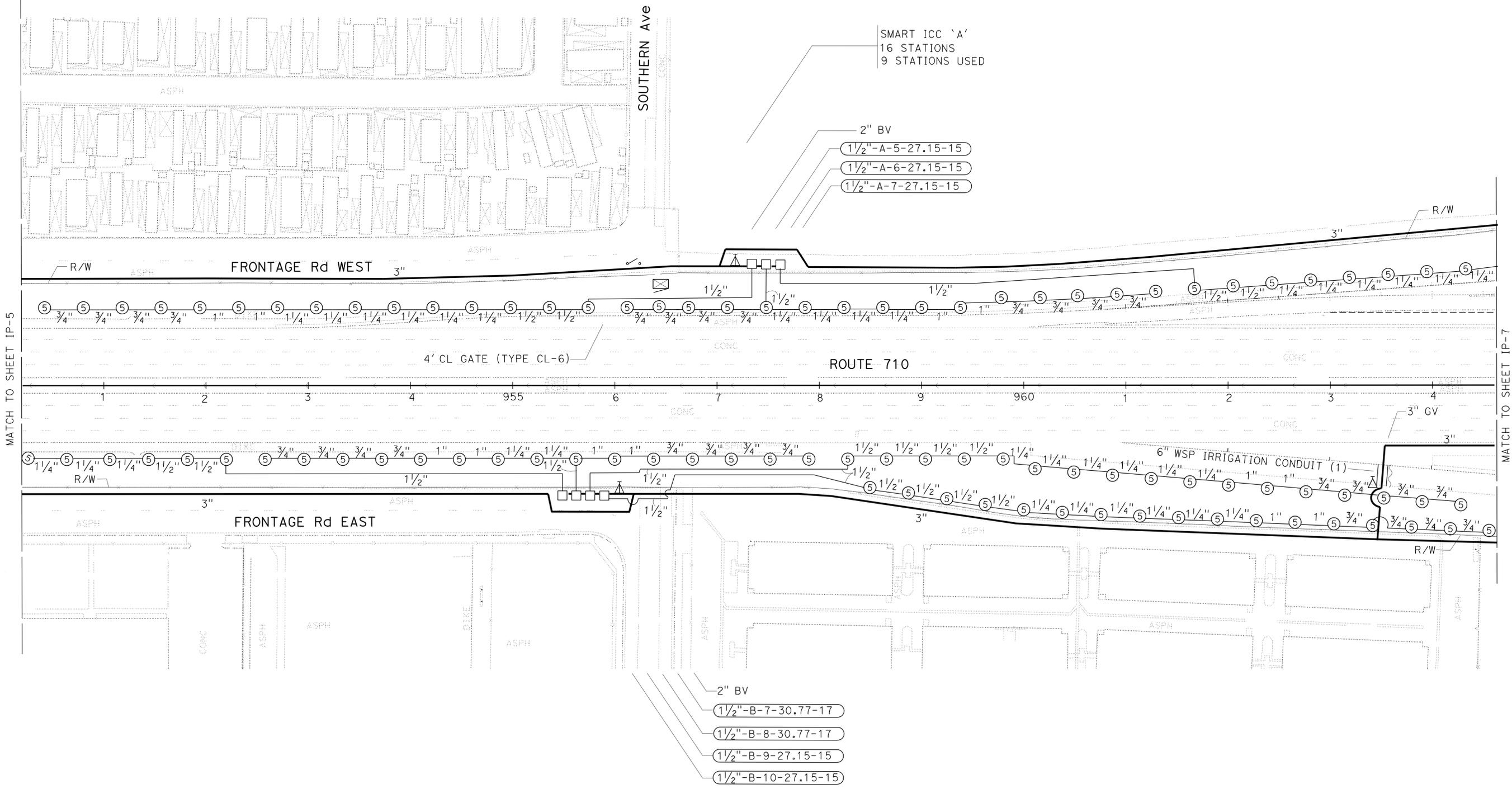
George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 XUAN WU
 GEORGE OLGUIN
 CHECKED BY
 RON RUSSAK
 REVISIONS BY
 DATE



IRRIGATION PLAN
 SCALE: 1" = 50'

APPROVED FOR IRRIGATION WORK ONLY

IP-6

LAST REVISION DATE PLOTTED => 28-APR-2016 TIME PLOTTED => 14:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK
 CALCULATED/DESIGNED BY: XUAN WU
 CHECKED BY: GEORGE OLGUIN
 REVISED BY: XUAN WU
 DATE REVISED: GEORGE OLGUIN

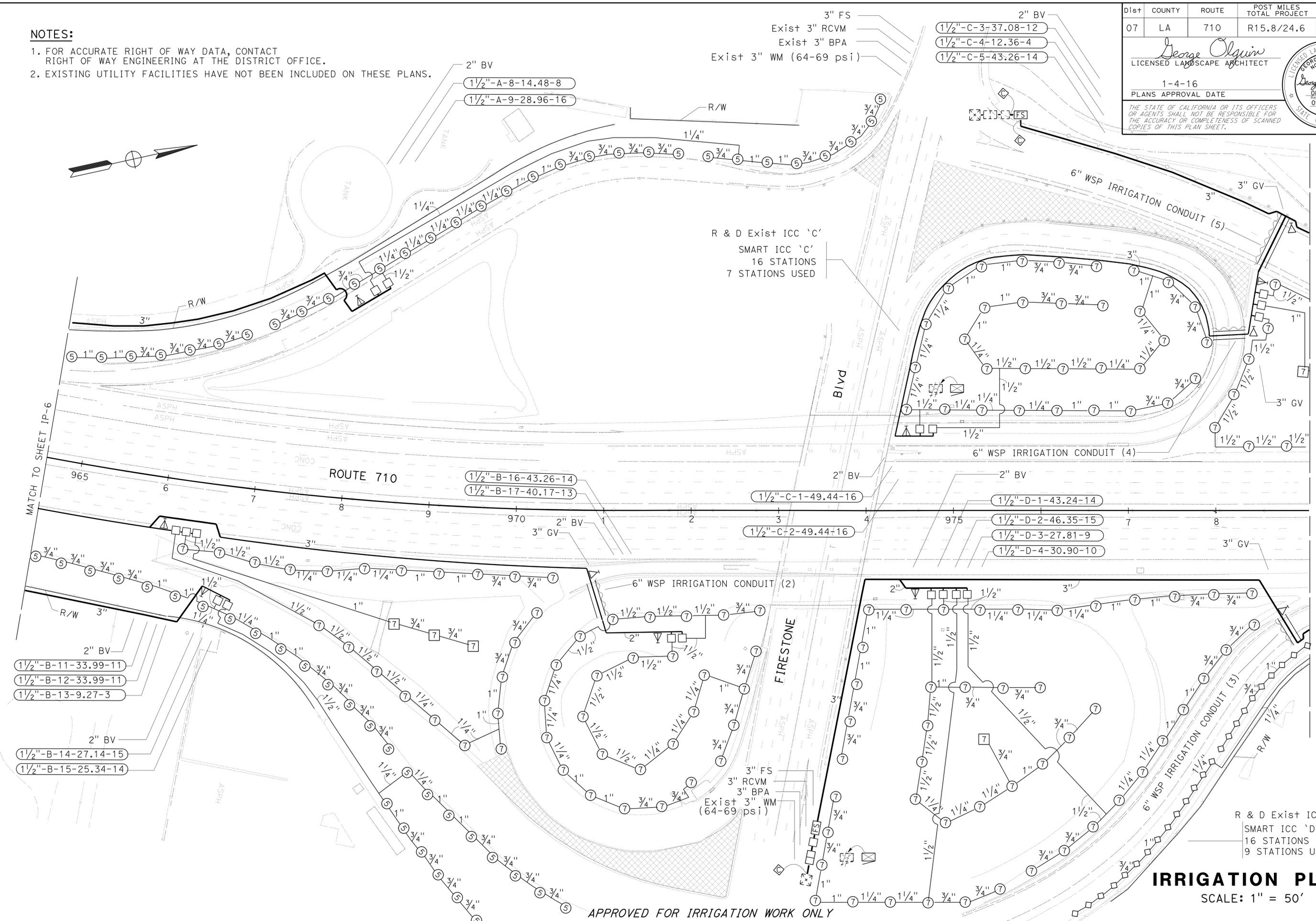
NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	21	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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George Olguin
 LICENSED LANDSCAPE ARCHITECT
 No. 4333
 08-31-16
 09-30-15
 STATE OF CALIFORNIA



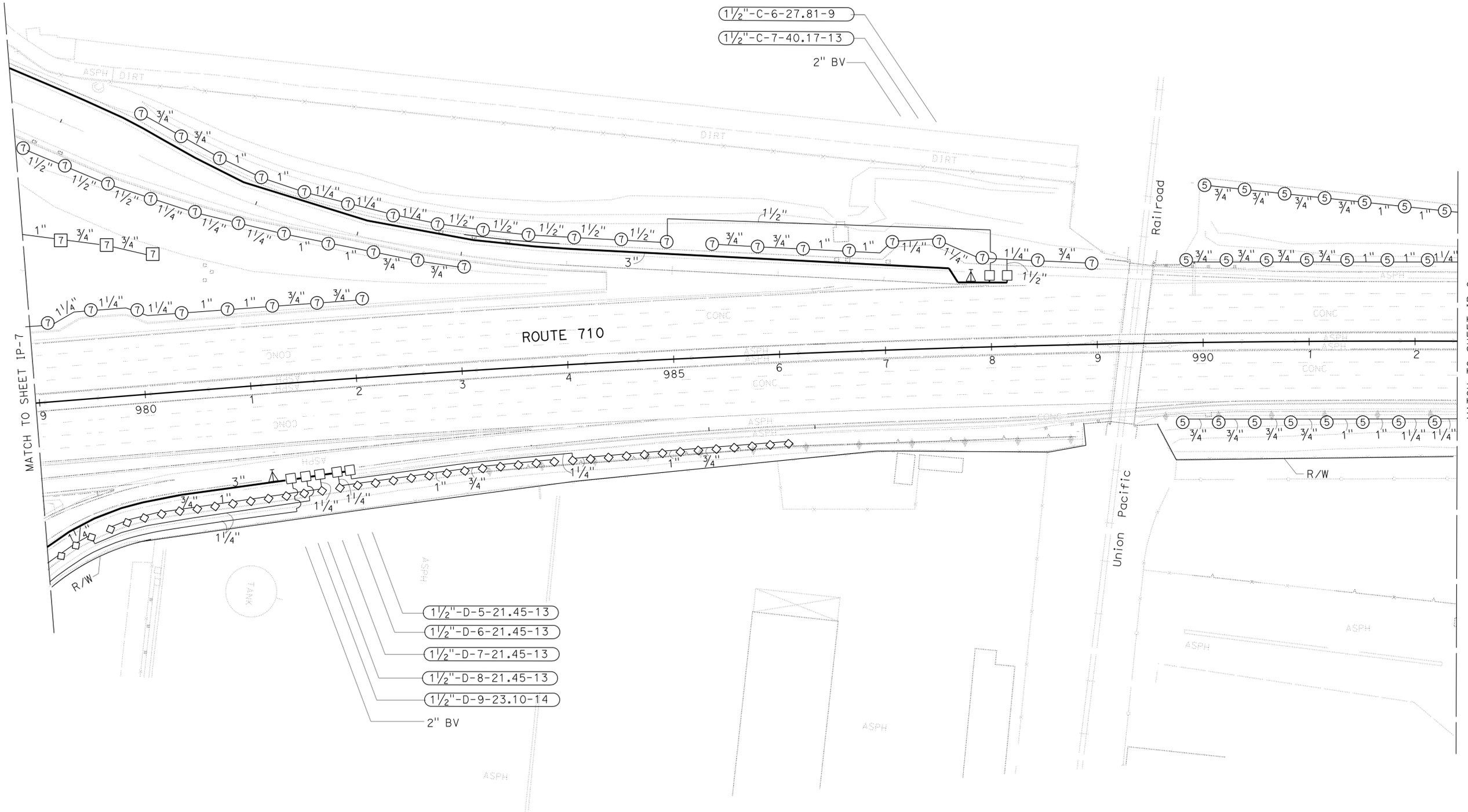
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	22	93

<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 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. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.



MATCH TO SHEET IP-7

MATCH TO SHEET IP-9

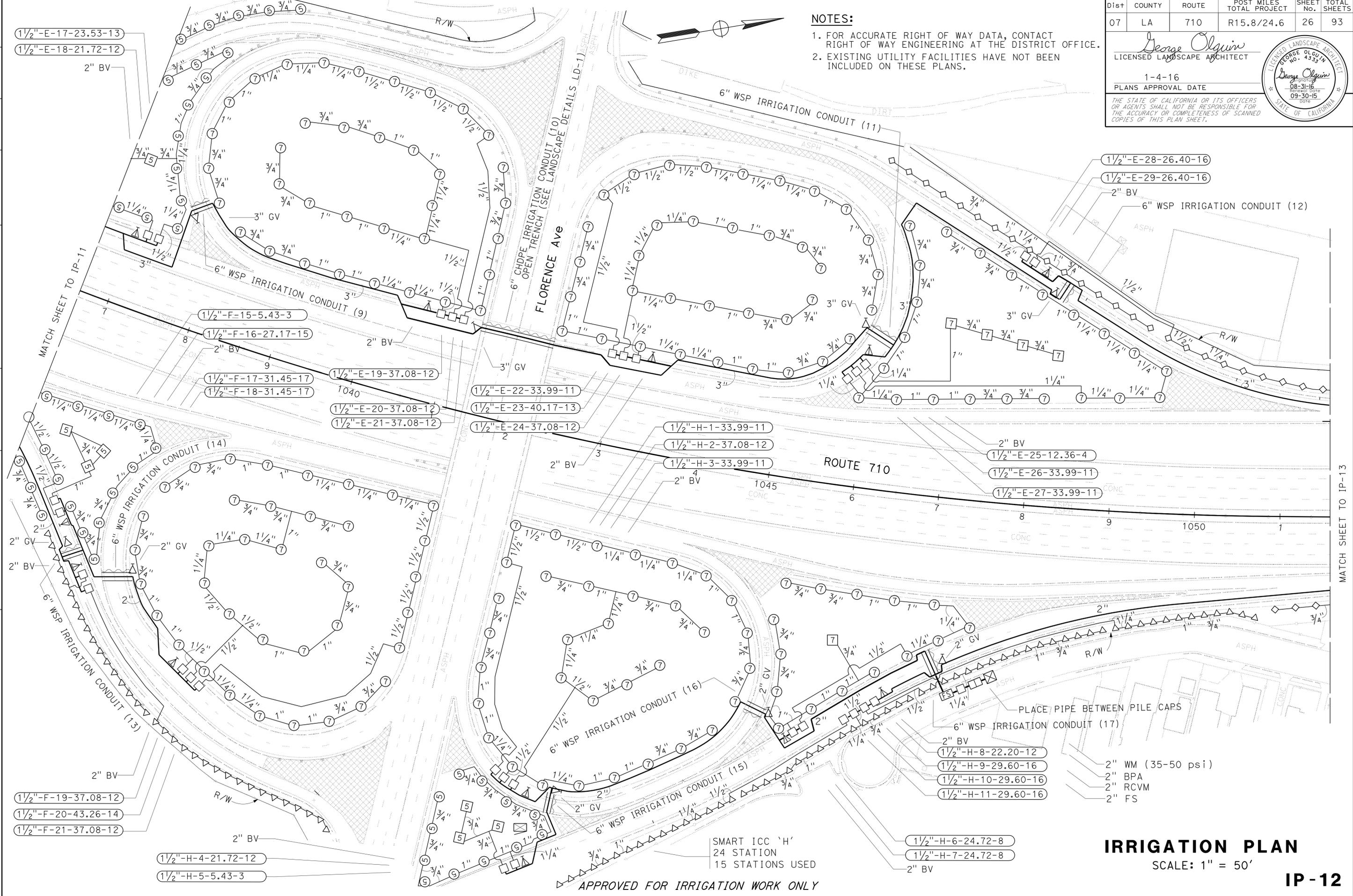
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	XUAN WU	REVISOR BY	
Caltrans LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	GEORGE OLGUIN	DATE REVISOR	

APPROVED FOR IRRIGATION WORK ONLY

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

LAST REVISION DATE PLOTTED => 28-APR-2016 00-00-00 TIME PLOTTED => 14:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE



NOTES:
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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	26	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 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.

REVISOR: XUAN WU
 CHECKED BY: GEORGE OLGUIN
 CALCULATED/DESIGNED BY: RON RUSSAK
 SENIOR LANDSCAPE ARCHITECT

- 1/2"-E-17-23.53-13
- 1/2"-E-18-21.72-12
- 2" BV
- 1/2"-F-15-5.43-3
- 1/2"-F-16-27.17-15
- 2" BV
- 1/2"-F-17-31.45-17
- 1/2"-F-18-31.45-17
- 1/2"-E-19-37.08-12
- 1/2"-E-20-37.08-12
- 1/2"-E-21-37.08-12
- 1/2"-E-22-33.99-11
- 1/2"-E-23-40.17-13
- 1/2"-E-24-37.08-12
- 1/2"-H-1-33.99-11
- 1/2"-H-2-37.08-12
- 1/2"-H-3-33.99-11
- 2" BV
- 1/2"-E-25-12.36-4
- 1/2"-E-26-33.99-11
- 1/2"-E-27-33.99-11
- 1/2"-F-19-37.08-12
- 1/2"-F-20-43.26-14
- 1/2"-F-21-37.08-12
- 2" BV
- 1/2"-H-4-21.72-12
- 1/2"-H-5-5.43-3

- 1/2"-E-28-26.40-16
- 1/2"-E-29-26.40-16
- 2" BV
- 1/2"-E-25-12.36-4
- 1/2"-E-26-33.99-11
- 1/2"-E-27-33.99-11
- 2" BV
- 1/2"-H-8-22.20-12
- 1/2"-H-9-29.60-16
- 1/2"-H-10-29.60-16
- 1/2"-H-11-29.60-16
- 2" WM (35-50 psi)
- 2" BPA
- 2" RCVM
- 2" FS
- 1/2"-H-6-24.72-8
- 1/2"-H-7-24.72-8
- 2" BV

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

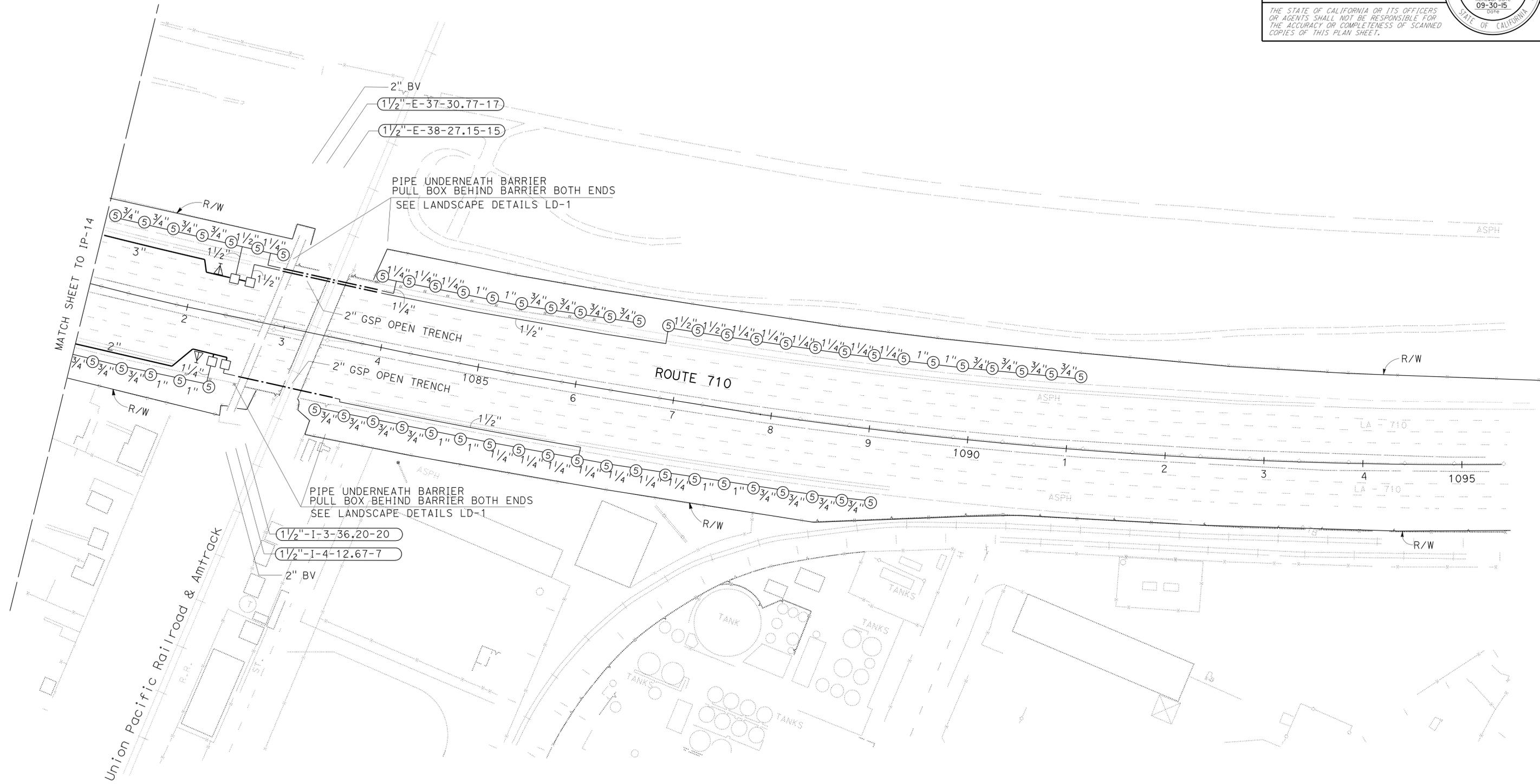
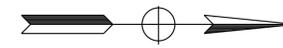
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	29	93

<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 PLANS APPROVAL DATE	
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LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4333
 State of California
 08-31-16
 09-30-15
 DATE

NOTES:

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR
Caltrans LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	GEORGE OLGUIN
			DATE REVISOR

IRRIGATION PLAN
SCALE: 1" = 50'

IP-15

APPROVED FOR IRRIGATION WORK ONLY

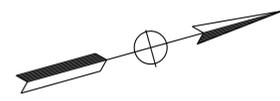
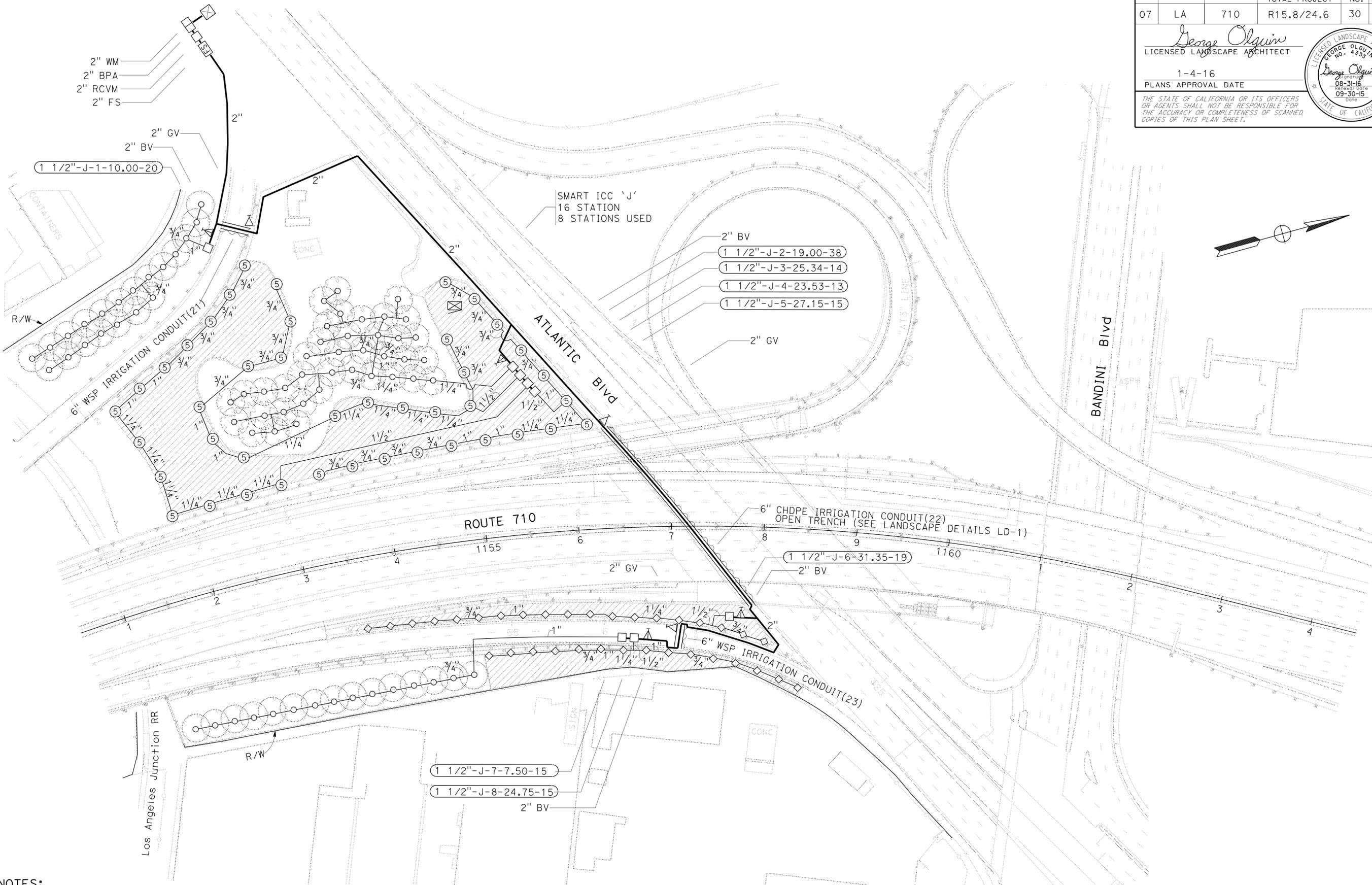
LAST REVISION: DATE PLOTTED => 28-APR-2016
00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	30	93

<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 PLANS APPROVAL DATE	
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LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4333
 State of California
 Approved: 08-31-16
 Renewal Date: 09-30-16
 DGT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	RON RUSSAK
CALCULATED/DESIGNED BY	CHECKED BY	XUAN WU	GEORGE OLGUIN
REVISOR	DATE		



- NOTES:**
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IRRIGATION PLAN
SCALE: 1" = 50'
IP-16

APPROVED FOR IRRIGATION WORK ONLY

LAST REVISION: DATE PLOTTED => 28-APR-2016
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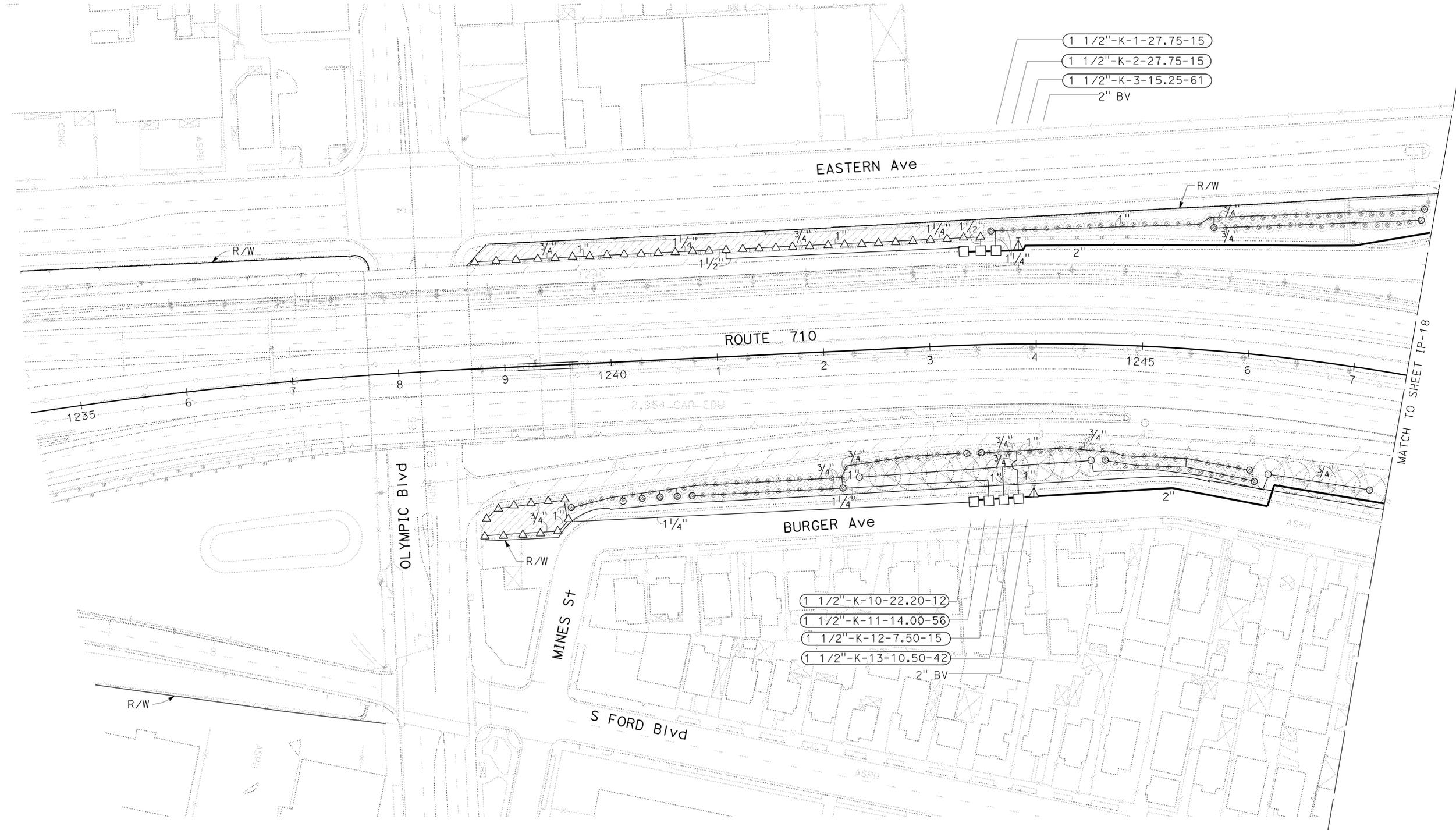
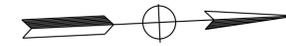
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	31	93

<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 PLANS APPROVAL DATE	
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LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4333
 State of California
 08-31-16
 09-30-15
 DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	GEORGE OLGUIN	

IRRIGATION PLAN

SCALE: 1" = 50'

IP-17

APPROVED FOR IRRIGATION WORK ONLY

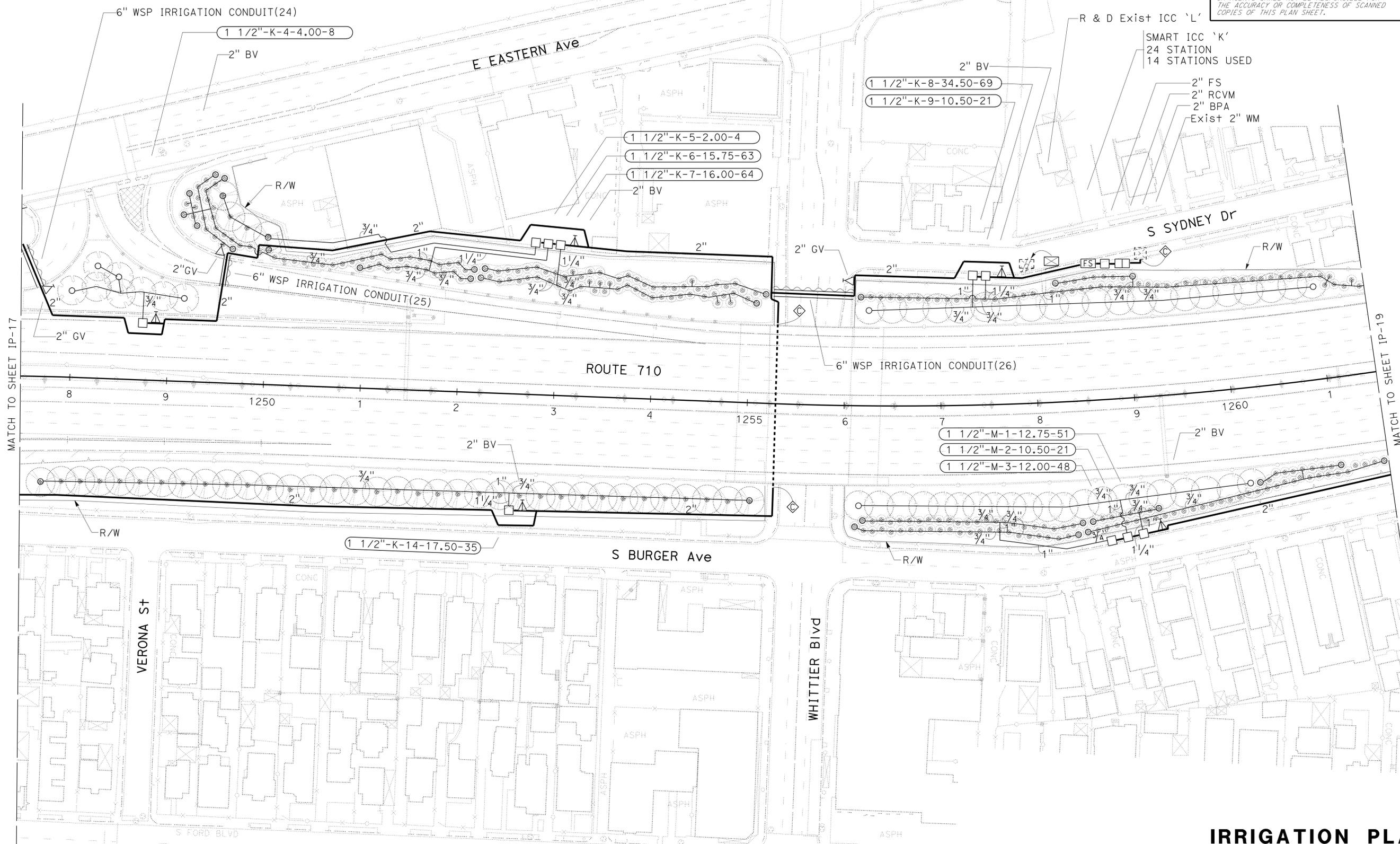
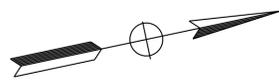


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	32	93

 LICENSED LANDSCAPE ARCHITECT		
1-4-16 PLANS APPROVAL DATE		

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 XUAN WU
 GEORGE OLGUIN
 CHECKED BY
 DESIGNED BY
 REVISIONS
 DATE
 REVISIONS
 DATE

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

APPROVED FOR IRRIGATION WORK ONLY

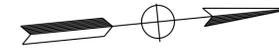
LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	33	93

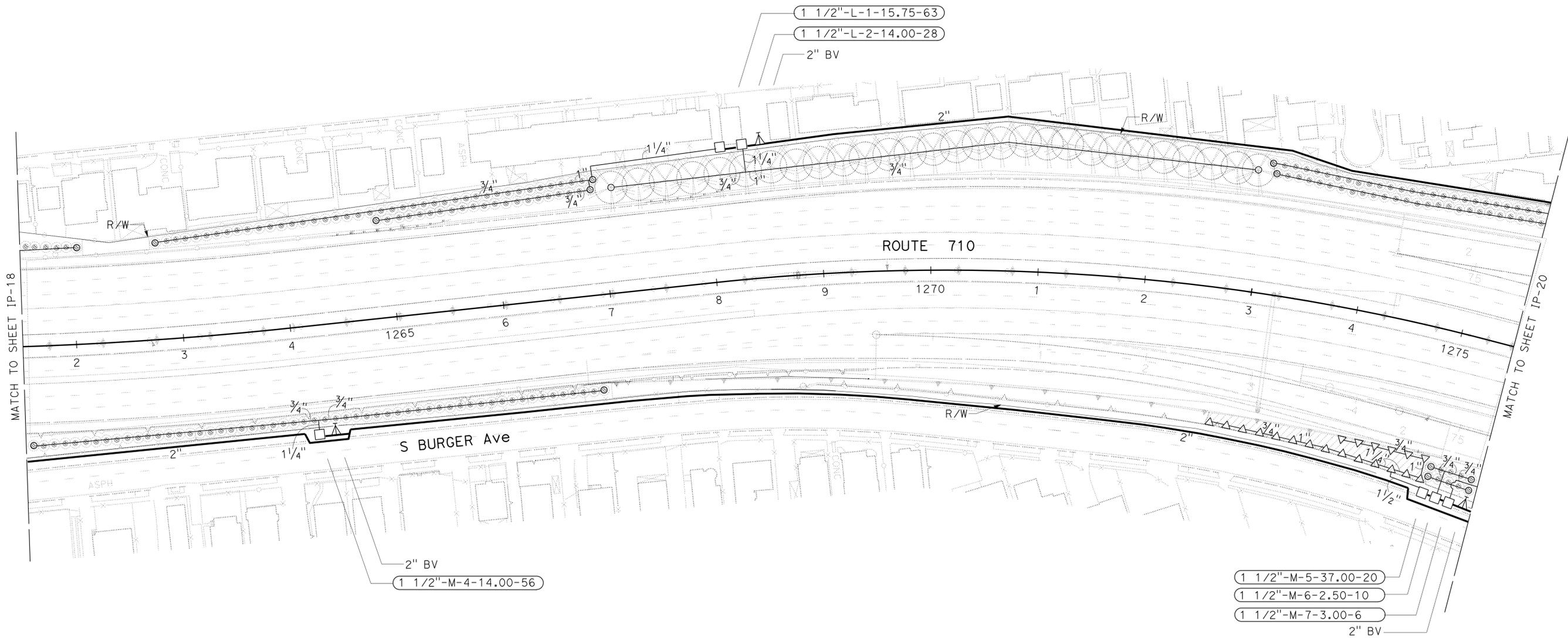
 LICENSED LANDSCAPE ARCHITECT		
1-4-16 PLANS APPROVAL DATE		
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE	SENIOR LANDSCAPE ARCHITECT	CALCULATED/DESIGNED BY	REVISOR	DATE
Caltrans		RON RUSSAK	CHECKED BY	XUAN WU	GEORGE OLGUIN



IRRIGATION PLAN

SCALE: 1" = 50'

IP-19

APPROVED FOR IRRIGATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 XUAN WU
 GEORGE OLGUIN
 RON RUSSAK

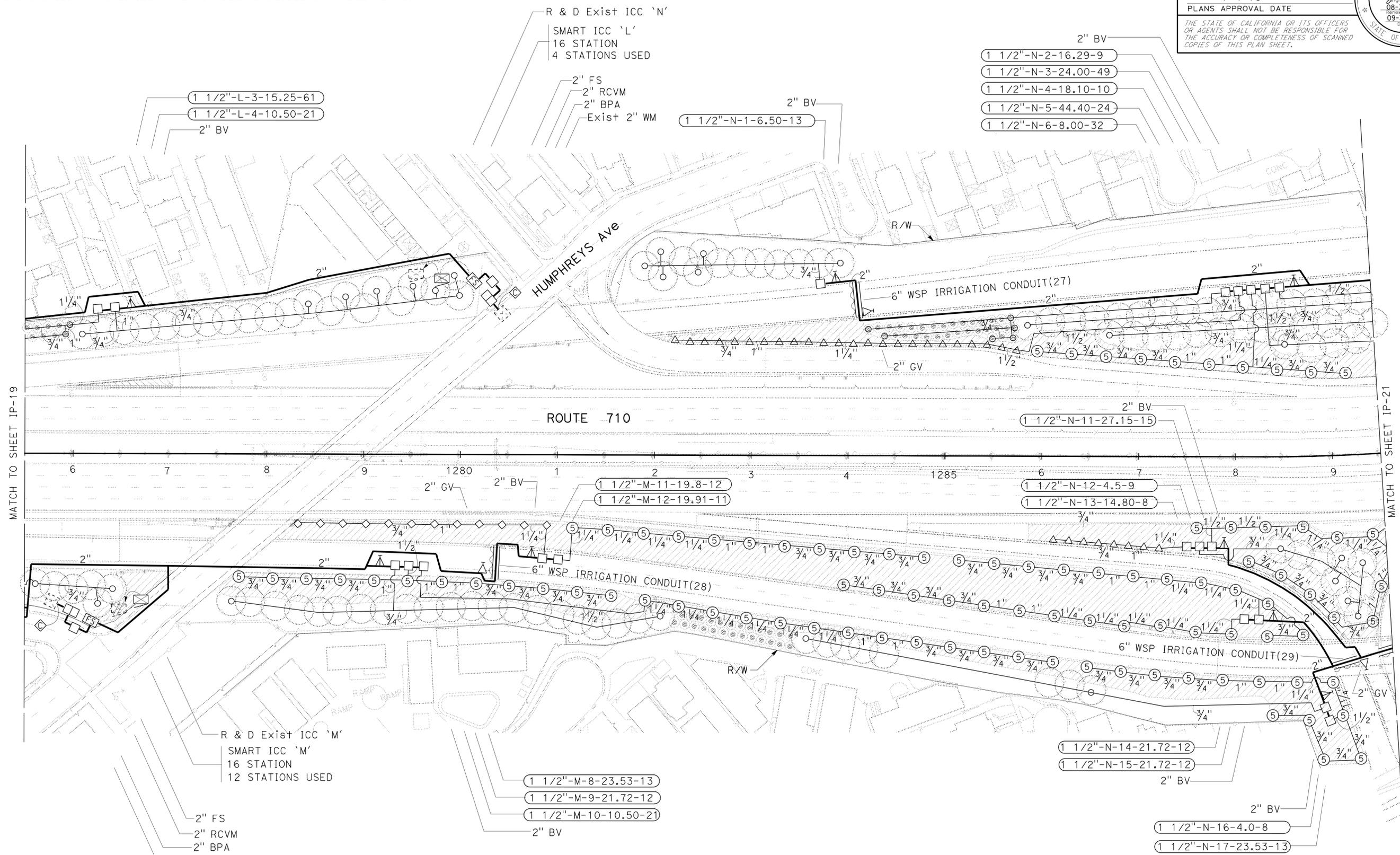
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	710	R15.8/24.6	34	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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

APPROVED FOR IRRIGATION WORK ONLY

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07	LA	710	R15.8/24.6	35	93

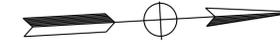
<i>George Olguin</i> LICENSED LANDSCAPE ARCHITECT	
1-4-16 PLANS APPROVAL DATE	
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.	

NOTES:

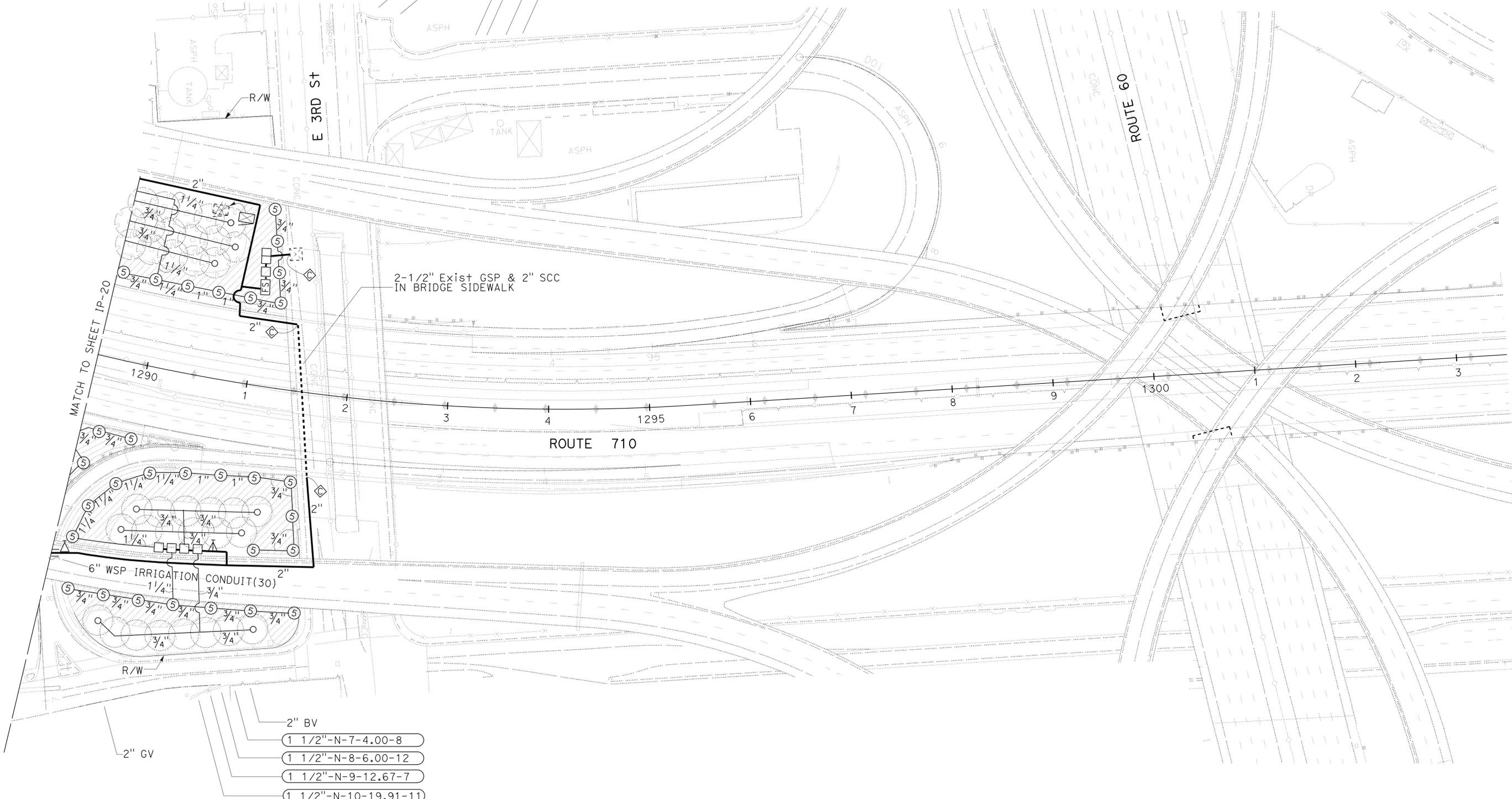
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

R & D Exist ICC 'O'
SMART ICC 'N'
24 STATION
17 STATIONS USED

Exist 2" WM
2" BPA
2" RCVM
2" FS



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	XUAN WU	REVISOR BY	
LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	GEORGE OLGUIN	DATE REVISOR	



- 2" BV
- 1 1/2"-N-7-4.00-8
- 1 1/2"-N-8-6.00-12
- 1 1/2"-N-9-12.67-7
- 1 1/2"-N-10-19.91-11

IRRIGATION PLAN

SCALE: 1" = 50'

IP-21

APPROVED FOR IRRIGATION WORK ONLY

LAST REVISION DATE PLOTTED => 28-APR-2016 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	36	93

George Olguin
LICENSED LANDSCAPE ARCHITECT

1-4-16
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.

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	RISER
		LF	LF	LF	LF	LF	EA	EA
A	1	140	70	255	730	-	15	-
	2	140	70	210	270	-	15	-
	3	280	105	105	40	-	15	-
	4	140	70	210	355	-	14	-
	5	140	70	210	240	-	15	-
	6	280	70	140	40	-	15	-
	7	140	70	210	520	-	15	-
	8	175	70	481	-	-	8	-
	9	280	70	175	10	-	16	-
SUBTOTAL A		1,715	665	1,996	2,205	-	128	-

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	RISER
		LF	LF	LF	LF	LF	EA	EA
B	1	210	70	175	140	-	15	-
	2	158	70	210	70	-	15	-
	3	175	70	175	140	-	15	-
	4	280	140	70	50	-	15	-
	5	140	70	210	340	-	15	-
	6	140	70	210	110	-	15	-
	7	140	70	210	390	-	17	-
	8	140	70	210	400	-	17	-
	9	280	140	70	110	-	15	-
	10	140	70	210	410	-	15	-
	11	90	50	110	305	-	11	-
	12	80	80	120	135	-	11	-
	13	80	240	-	-	-	3	-
	14	280	140	70	10	-	15	-
	15	210	80	60	200	-	14	-
	16	120	80	120	265	-	14	-
	17	120	40	120	240	-	13	-
SUBTOTAL B		2,783	1,550	2,350	3,315	-	235	-

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	RISER
		LF	LF	LF	LF	LF	EA	EA
C	1	160	160	240	80	-	16	-
	2	160	160	160	260	-	16	-
	3	80	80	120	195	-	12	-
	4	80	140	-	-	-	4	-
	5	80	80	120	310	-	14	-
	6	140	140	200	120	-	9	-
	7	80	80	120	550	-	13	-
SUBTOTAL C		780	840	960	1,515	-	84	-

IRRIGATION QUANTITIES

IQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK
 XUAN WU
 GEORGE OLGUIN
 REVISOR: XUAN WU
 DATE REVISOR: GEORGE OLGUIN
 CALCULATED/DESIGNED BY: XUAN WU
 CHECKED BY: GEORGE OLGUIN

LAST REVISION | DATE PLOTTED => 28-APR-2016 | 00-00-00 | TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	37	93

George Olguin
LICENSED LANDSCAPE ARCHITECT

1-4-16
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
GEORGE OLGUIN
No. 4333
Manufactured Date
08-31-16
Project Date
09-30-15
Date
STATE OF CALIFORNIA

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

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	POP UP
		LF	LF	LF	LF	LF	EA	EA
D	1	200	80	120	240	-	14	-
	2	160	160	200	80	-	15	-
	3	160	80	80	350	-	9	-
	4	160	80	80	310	-	10	-
	5	120	48	320	-	-	-	13
	6	120	48	144	-	-	-	13
	7	120	48	144	-	-	-	13
	8	120	48	340	-	-	-	13
	9	120	48	513	-	-	-	14
SUBTOTAL D		1,280	640	1,941	980	-	48	66

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	POP UP
		LF	LF	LF	LF	LF	EA	EA
E	1	140	70	210	300	-	15	-
	2	280	140	70	35	-	15	-
	3	280	240	140	400	-	11	-
	4	315	105	70	280	-	9	-
	5	120	48	168	330	-	-	16
	6	60	30	90	70	-	-	15
	7	60	30	90	70	-	-	16
	8	60	30	90	260	-	-	16
	9	60	30	90	230	-	-	16
	10	120	30	75	30	-	-	16
	11	60	30	90	185	-	-	20
	12	105	30	45	50	-	-	16
	13	60	30	90	120	-	-	20
	14	140	70	340	-	-	12	-
	15	280	70	70	40	-	13	-
	16	140	70	210	310	-	13	-
	17	210	35	105	40	-	13	-
	18	140	70	175	40	-	12	-
	19	160	160	120	10	-	12	-
	20	160	160	240	115	-	12	-
	21	80	80	120	370	-	12	-
	22	80	80	120	335	-	11	-
	23	160	160	240	50	-	13	-
	24	160	160	120	10	-	12	-
	25	120	160	-	-	-	4	-
	26	80	80	500	-	-	11	-
	27	160	160	110	-	-	11	-
	28	240	96	24	10	-	-	16
	29	120	48	144	248	-	-	16
	30	240	96	24	30	-	-	18
	31	240	48	120	380	-	-	18
	32	240	96	72	420	-	-	18
	33	240	72	24	10	-	-	16
	34	120	48	144	40	-	-	14
	35	144	48	120	10	-	-	14
	36	192	48	120	10	-	-	16
	37	280	70	280	80	-	-	17
	38	140	70	210	500	-	-	15
SUBTOTAL E		5,986	3,098	5,070	5,418	-	211	329

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	POP UP
		LF	LF	LF	LF	LF	EA	EA
F	1	140	70	210	410	-	16	-
	2	245	70	175	35	-	15	-
	3	280	70	140	280	-	5	-
	4	140	70	210	340	-	15	-
	5	60	30	90	235	-	-	16
	6	90	30	90	40	-	-	16
	7	60	30	90	100	-	-	16
	8	60	30	90	150	-	-	16
	9	120	60	-	60	-	-	16
	10	60	30	90	200	-	-	17
	11	60	30	90	75	-	-	17
	12	60	30	90	60	-	-	16
	13	280	140	140	30	-	17	-
	14	280	70	210	470	-	18	-
	15	70	40	-	-	-	3	-
	16	140	70	210	110	-	15	-
	17	120	30	90	20	-	-	17
	18	60	30	90	230	-	-	17
	19	160	160	120	10	-	12	-
	20	200	120	120	100	-	14	-
	21	80	80	120	410	-	12	-
SUBTOTAL F		2,765	1,290	2,465	3,365	-	142	164

IRRIGATION QUANTITIES

IQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE

XUAN WU GEORGE OLGUIN

REVISOR DATE

CALCULATED BY DESIGNED BY

CHECKED BY

SENIOR LANDSCAPE ARCHITECT RON RUSSAK

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	39	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT

1-4-16
 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.

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER	POP UP
		LF	LF	LF	LF	LF	EA	EA
K	1	60	30	90	253	-	-	15
	2	60	30	90	40	-	-	15
	3	393	91	130	-	-	61	-
	4	187	-	-	-	-	8	-
	5	340	-	-	-	-	4	-
	6	487	127	137	-	-	63	-
	7	581	-	40	-	-	64	-
	8	499	92	79	-	-	69	-
	9	462	28	-	-	-	21	-
	10	120	45	382	-	-	-	12
	11	517	15	136	-	-	56	-
	12	174	17	-	-	-	15	-
	13	329	95	-	-	-	42	-
	14	583	147	20	-	-	35	-
SUBTOTAL K		4,792	717	1104	293	-	438	42

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY	
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER	POP UP
		LF	LF	LF	LF	LF	EA	EA
L	1	510	105	124	-	-	63	-
	2	461	141	22	-	-	28	-
	3	605	10	30	-	-	61	-
	4	392	80	-	-	-	21	-
SUBTOTAL L		1,968	336	176	-	-	173	-

IRRIGATION QUANTITIES

CONTROLLER LETTER	VALVE NUMBER	PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)					SPRINKLER ASSEMBLY		
		3/4"	1"	1 1/4"	1 1/2"	2"	RISER GEAR DRIVEN	RISER	POP UP
		LF	LF	LF	LF	LF	EA	EA	EA
M	1	432	49	22	-	-	-	51	-
	2	405	37	-	-	-	-	21	-
	3	460	132	-	-	-	-	48	-
	4	536	-	15	-	-	-	56	-
	5	120	60	105	35	-	-	-	20
	6	104	-	-	-	-	-	10	-
	7	149	-	-	-	-	-	6	-
	8	140	70	210	235	-	13	-	-
	9	280	105	-	10	-	12	-	-
	10	448	45	-	-	-	-	21	-
	11	120	48	120	-	-	-	-	12
	12	140	70	175	-	-	11	-	-
SUBTOTAL M		3,334	616	647	280	-	36	213	32

IRRIGATION QUANTITIES
IQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT - XUAN WU
 LANDSCAPE ARCHITECT - GEORGE OLGUIN
 CHECKED BY - XUAN WU
 REVISOR - XUAN WU
 DATE REVISOR - GEORGE OLGUIN

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	41	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 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.

IRRIGATION QUANTITIES

	SHEET NUMBER	IRRIGATION CONTROLLER								COPPER PIPE (SUPPLY LINE)		GALV STEEL PIPE			WM		BPA				PLASTIC PIPE (SCHEDULE 40) (SUPPLY LINE)						SPRINKLER ASSEMBLY											
		12 STATION	16 STATION	24 STATION	48 STATION	TWO WIRE	SINGLE	DOUBLE	CEC	2"	3"	1 1/2"	2"	3"	2"	3"	RCV		FS		GV		BV		3/4"	1"	1 1/4"	1 1/2"	2"	3"	RISER GEAR DRIVEN	RISER	POP UP					
		EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA												
		(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)	(N)						
SUBTOTALS PER SHEET ON MAIN SUPPLY SIDE OF CONTROL VALVE	IP-2	-	-	2	-	2	-	-	-	-	-	-	-	-	-	-	7	-	-	1	-	-	-	-	-	3	-	-	-	-	1013	-	-	-				
	IP-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	-	-	740	-	-	-				
	IP-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	1	-	-	-	-	482	-	-	-				
	IP-5	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	2	2	-	7	-	2	-	2	-	-	2	-	-	-	382	1945	-	-	-			
	IP-6	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	1	-	-	2	-	-	-	-	-	3053	-	-	-			
	IP-7	-	2	-	-	-	2	-	-	-	-	-	-	-	-	-	1	1	-	18	-	1	-	2	-	-	4	-	-	7	-	165	2894	-	-	-		
	IP-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	2	-	-	-	-	-	1284	-	-	-			
	IP-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	2	-	-	-	-	-	1970	-	-	-			
	IP-10	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	13	1	-	1	-	-	-	-	4	-	-	-	-	1461	1471	-	-	-			
	IP-11	-	-	1	1	-	2	-	-	-	-	-	-	-	-	-	1	1	-	9	-	1	-	1	2	-	-	4	-	-	1494	1468	-	-	-			
	IP-12	-	-	1	-	-	1	-	-	-	-	-	-	1	-	1	-	31	1	-	1	-	-	5	4	-	-	12	-	-	1676	1710	-	-	-			
	IP-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	3	-	-	-	-	1375	1480	-	-	-			
	IP-14	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	7	1	-	1	-	-	-	1	-	-	3	-	-	-	590	1419	-	-	-			
	IP-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	2	-	-	-	-	152	157	-	-	-			
	IP-16	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	8	1	-	1	-	-	3	-	-	4	-	-	-	-	771	-	-	-	-			
	IP-17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	2	-	-	-	-	816	-	-	-	-			
	IP-18	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	10	1	-	1	-	-	3	-	-	5	-	-	-	-	2242	-	-	-	-			
	IP-19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	3	-	-	-	-	2142	-	-	-	-			
	IP-20	-	2	-	-	-	2	-	-	-	-	-	-	2	-	2	-	20	2	-	2	-	-	3	-	-	8	-	-	-	2226	-	-	-	-			
	IP-21	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	4	1	-	1	-	-	1	-	-	1	-	-	-	-	584	-	-	-	-			
	IPP-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
SUBTOTAL A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1715	665	1996	2205	-	-	128	-	-
SUBTOTAL B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2783	1550	2350	3315	-	-	235	-	-
SUBTOTAL C	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	780	840	960	1515	-	-	84	-	-
SUBTOTAL D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1280	640	1941	980	-	-	48	-	66
SUBTOTAL E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5986	3098	5070	5418	-	-	211	-	329
SUBTOTAL F	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2765	1290	2465	3365	-	-	142	-	164
SUBTOTAL H	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1830	962	1691	1699	-	-	65	-	139
SUBTOTAL I	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	660	306	563	780	-	-	27	-	43
SUBTOTAL J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2468	694	869	434	-	-	42	73	34
SUBTOTAL K	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4792	717	1104	293	-	-	-	438	42
SUBTOTAL L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1968	336	176	-	-	-	-	173	-
SUBTOTAL M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3334	616	647	280	-	-	36	213	32
SUBTOTAL N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4659	804	1375	586	-	-	89	99	64
SUBTOTAL V	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2806	895	1979	110	-	-	110	43	-
SUBTOTAL Y	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	152	141	55	-	-	-	-	-	12
TOTAL		7	7	1	15						303	60	3		7	4	11	187	8	4	9	5		16	12		71	37,978	13,554	23,241	20,980	18,311	18,851	1,217	1,039	925		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: **RON RUSSAK**
 XUAN WU, GEORGE OLGUIN, REVISOR BY, DATE REVISOR
 CALCULATED/DESIGNED BY, CHECKED BY

IRRIGATION QUANTITIES

IQ-6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	42	93

George Olguin
LICENSED LANDSCAPE ARCHITECT

1-4-16
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.

PLANTING LEGEND

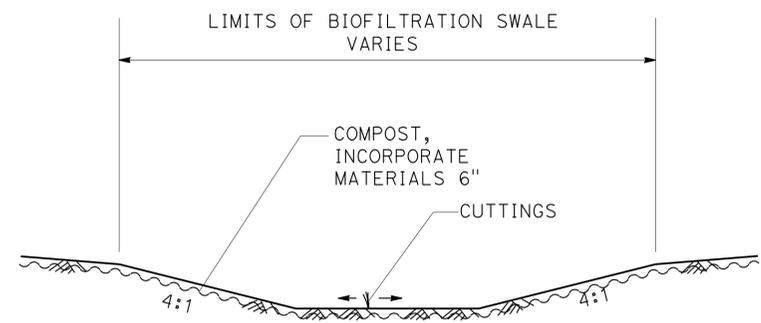
PLANT GROUP	PLANT No.	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY EACH	HOLE SIZE (INCH)		BASIN TYPE	SOIL AMENDMENT		IRON SULFATE RATE	COMMERCIAL FERTILIZER		BASIN MULCH		STAKING	PLANTING LIMITS						REMARKS	
							Dia	DEPTH		TYPE	RATE		PLANTING	PLT ESTB	TYPE	CY		MINIMUM DISTANCE (ft) FROM		ON CENTER (ft)					
																		ETW	Pvm+	FENCE	WALL	PAVED DITCH	EARTH DITCH		
A	1	⊙	THEVETIA PERUVIANA	YELLOW OLEANDER	No. 5	700	③	③	—	—	—	8 Oz	8 Oz	WC	0.08	—	—	10	8	8	8	10	8	SHRUB	
	2		CARPOBROTUS EDULIS	HOTTENTOT FIG	CUTTINGS	144,317	—	—	—	C	1.5 CY/1,000 SQFT	—	6 LBS/1,000 SQFT	6 LBS/1,000 SQFT	—	—	—	6	6	6	6	8	1.5	GROUND COVER	
	3		BACCHARIS PILULARIS	PIGEON POINT	CUTTINGS	7,195	—	—	—	C	1.5 CY/1,000 SQFT	—	6 LBS/1,000 SQFT	6 LBS/1,000 SQFT	—	—	—	6	6	6	6	8	1.5	GROUND COVER	
	4		IVA HAYESIANA	SAN DIEGO MARS ELDER	CUTTINGS	3,764	—	—	—	C	1.5 CY/1,000 SQFT	—	6 LBS/1,000 SQFT	6 LBS/1,000 SQFT	—	—	—	6	6	6	6	8	1.5	GROUND COVER	
U	5		JACARANDA ACUTIFOLIA	JACARANDA	No. 15	104	③	③	II	—	—	—	10 Oz	10 Oz	WC	0.16	④	30	—	20	20	20	20	⑦	MULTI-TRUNK TREE
	6		KOELREUTERIA BIPINNATA	CHINESE FLAME TREE	No. 15	39	③	③	II	—	—	—	10 Oz	10 Oz	WC	0.16	④	30	—	10	10	10	12	⑦	TREE
	7		PINUS CANARIENSIS	CANARY ISLAND PINE	No. 15	43	③	③	II	—	—	—	10 Oz	10 Oz	WC	0.16	④	40	—	20	20	10	12	⑦	TREE
	8		PLATANUS RAEMOSA	CALIFORNIA SYCAMORE	No. 15	209	③	③	II	—	—	—	10 Oz	10 Oz	WC	0.16	④	40	—	20	20	10	12	⑦	MULTI-TRUNK TREE

LEGEND:

- MULCH
- ROADSIDE CLEARING (REMOVE EXIST PLANTS TREES, SHRUBS, GROUND COVER AND VINE) & PLANT ESTABLISHMENT WORK
- MAINTAIN EXISTING PLANTED AREAS

APPLICABLE WHEN CIRCLED:

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



SECTION
BIOFILTRATION SWALE Typ

WOOD MULCH

TYPE	LOCATION		QUANTITY (CY)
	BASIN	SPREAD	
TREE BARK (N)	—	—	—
WOOD CHIP (N)	119	5,052	5,171
SHREDDED BARK (N)	—	—	—
TREE TRIMMING (N)	—	—	—
TOTAL			

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

NOTE:

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

PLANT LEGEND PL-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Stantec LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK
 CALCULATED/DESIGNED BY: XUAN WU
 CHECKED BY: GEORGE OLGUIN
 REVISED BY: XUAN WU
 DATE REVISED: GEORGE OLGUIN

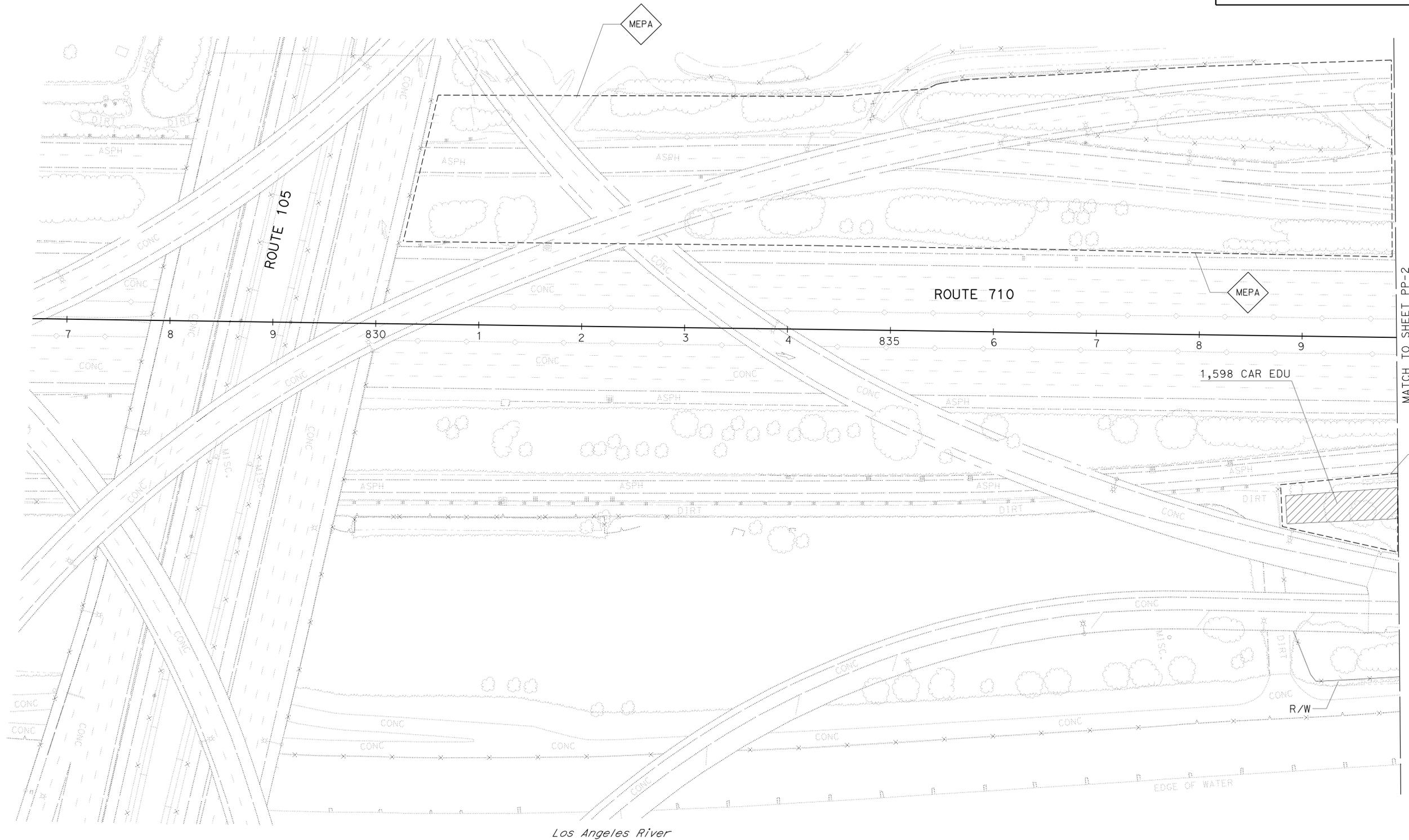
NOTES FOR PP1 THRU PP-9:

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	43	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 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.



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

APPROVED FOR PLANTING WORK ONLY

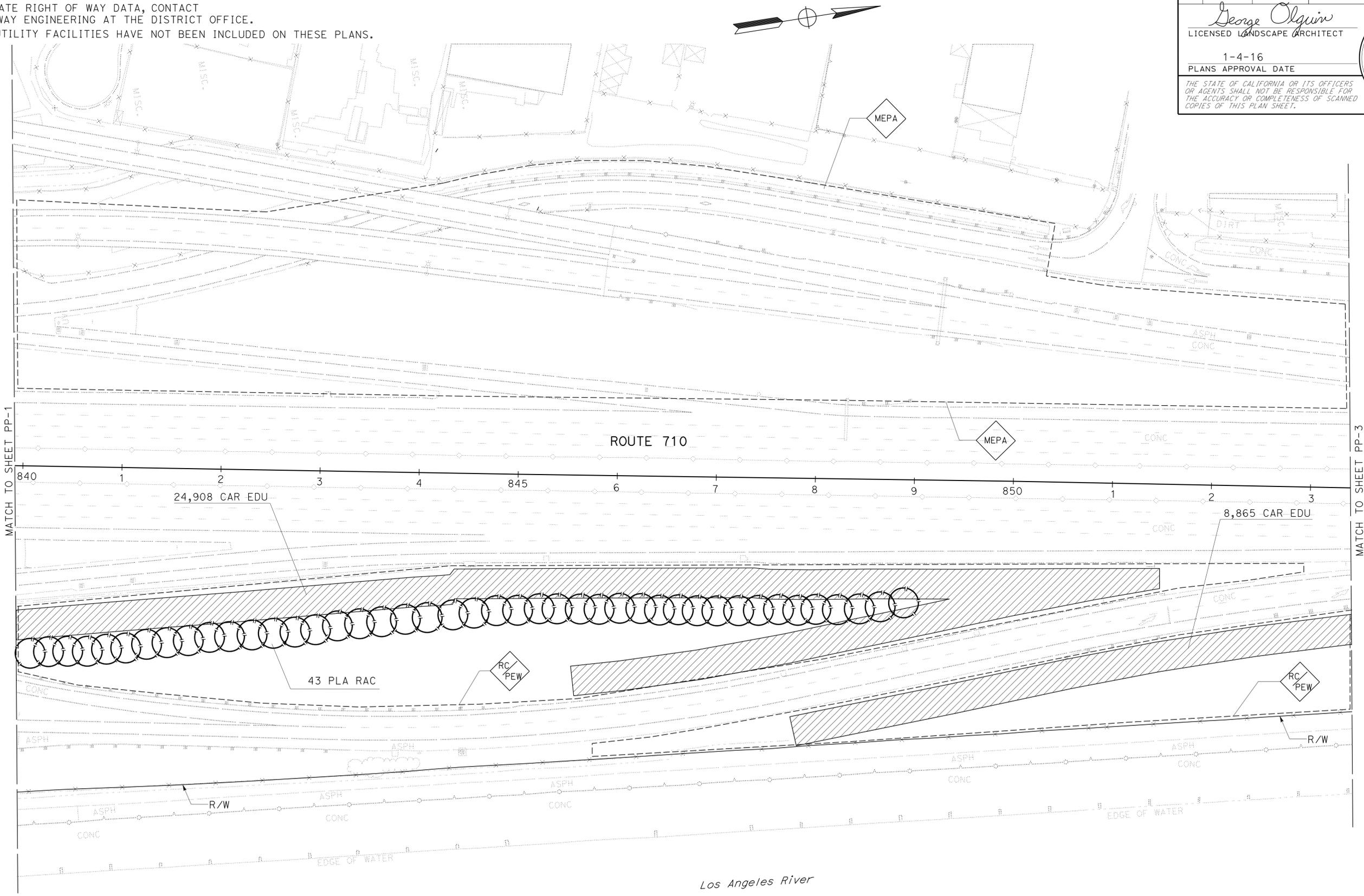
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	44	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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NOTES:

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Gtrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT: RON RUSSAK
 CALCULATED/DESIGNED BY: XUAN WU
 CHECKED BY: GEORGE OLGUIN
 REVISED BY: XUAN WU
 DATE REVISED:

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

APPROVED FOR PLANTING WORK ONLY

LAST REVISION | DATE PLOTTED => 28-APR-2016
 00-00-00 | TIME PLOTTED => 14:26

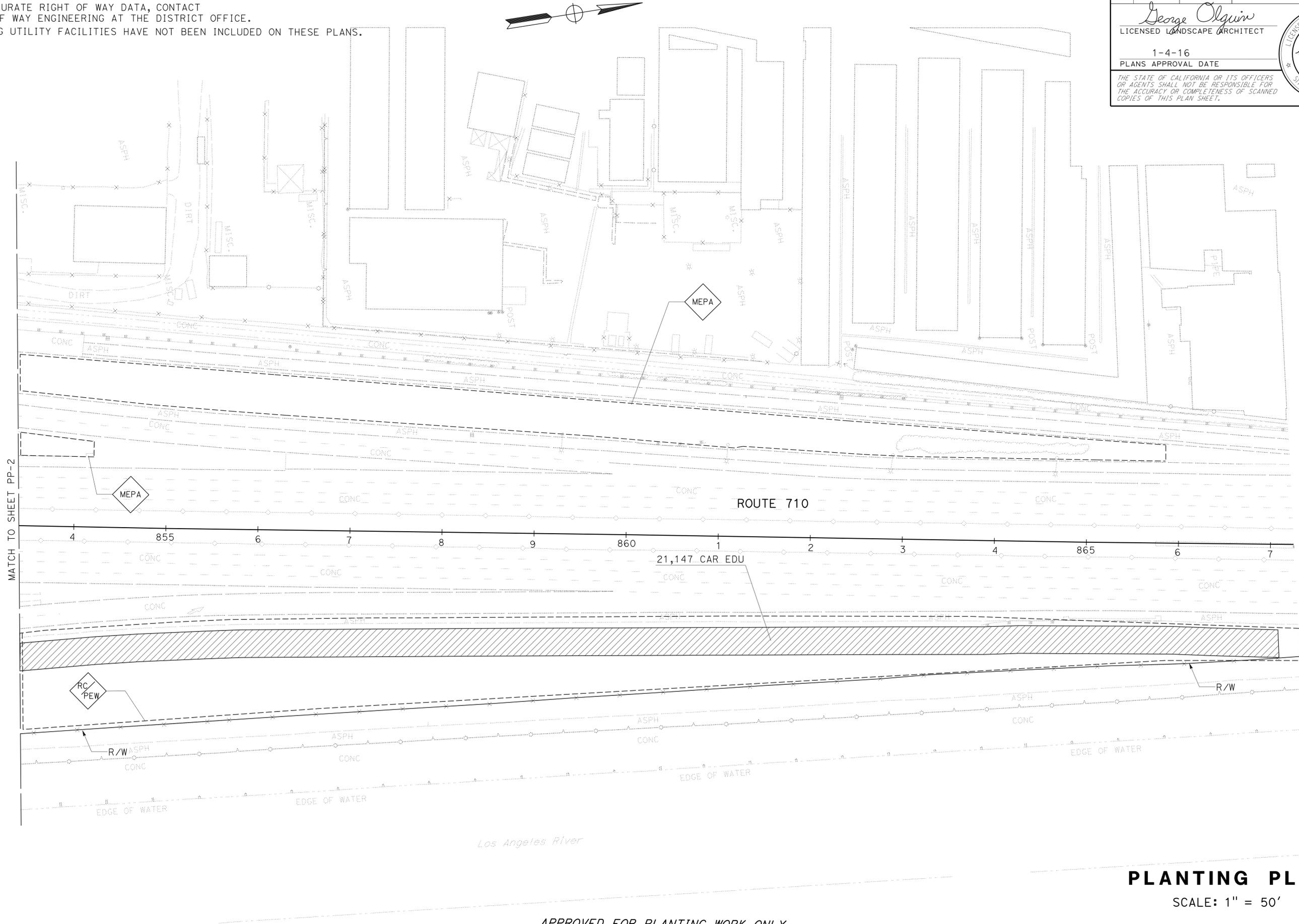
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Gtrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 XUAN WU
 REVISOR BY
 GEORGE OLGUIN
 CHECKED BY
 RON RUSSAK

NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	45	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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PLANTING PLAN
 SCALE: 1" = 50'
PP-3

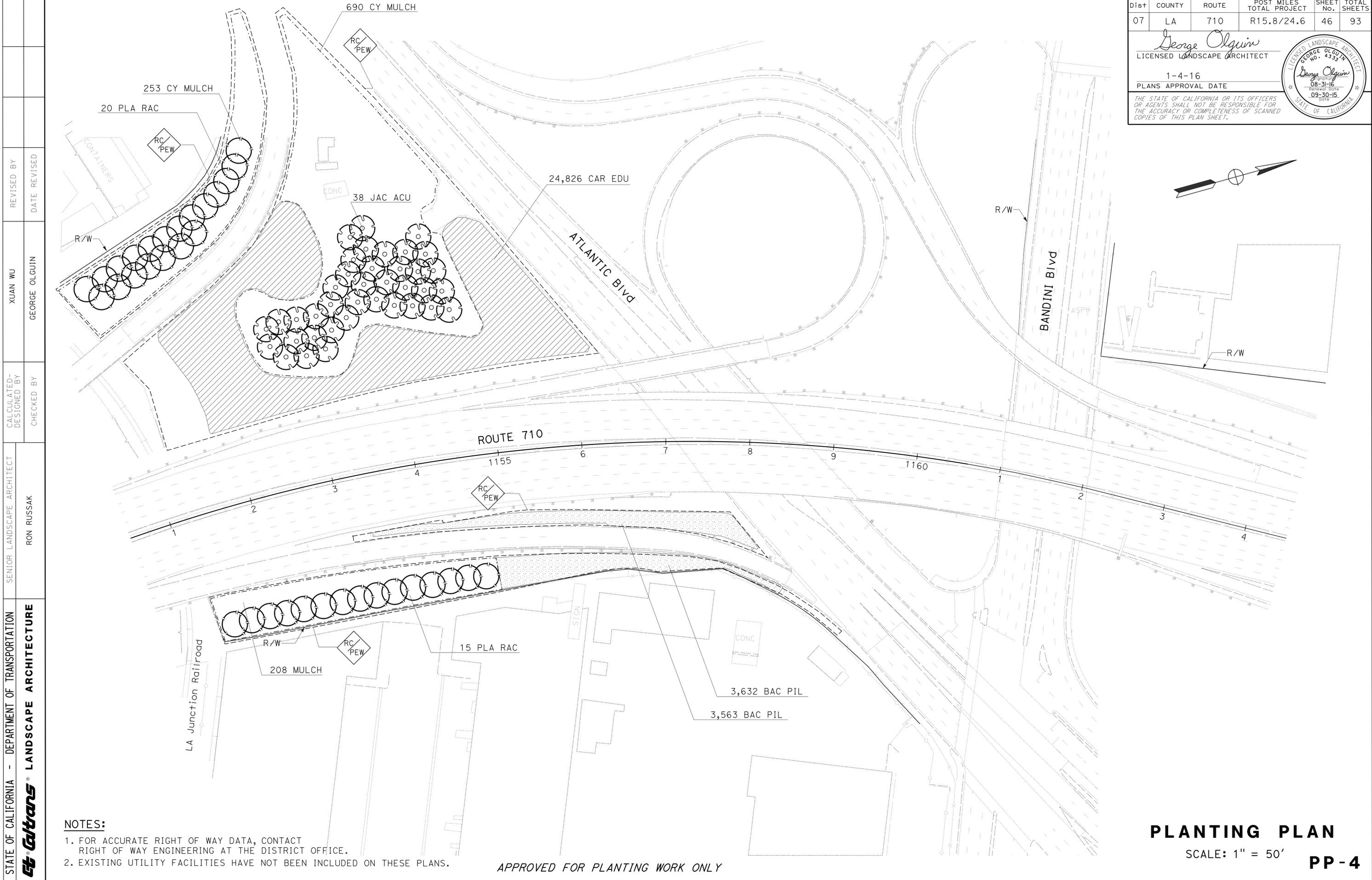
APPROVED FOR PLANTING WORK ONLY

LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	46	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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- NOTES:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

APPROVED FOR PLANTING WORK ONLY

PLANTING PLAN
 SCALE: 1" = 50'
PP-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	SENIOR LANDSCAPE ARCHITECT	CALCULATED-DESIGNED BY	REVISOR
Et Gtrans LANDSCAPE ARCHITECTURE	RON RUSSAK	CHECKED BY	DATE REVISED
		XUAN WU	GEORGE OLGUIN

USERNAME => s125624
 DGN FILE => 728920su004.dgn



UNIT 1850

PROJECT NUMBER & PHASE

07000211131

BORDER LAST REVISED 7/2/2010

LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

SENIOR LANDSCAPE ARCHITECT
 RON RUSSAK

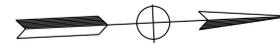
CALCULATED-DESIGNED BY
 CHECKED BY

XUAN WU
 GEORGE OLGUIN

REVISED BY
 DATE REVISED

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

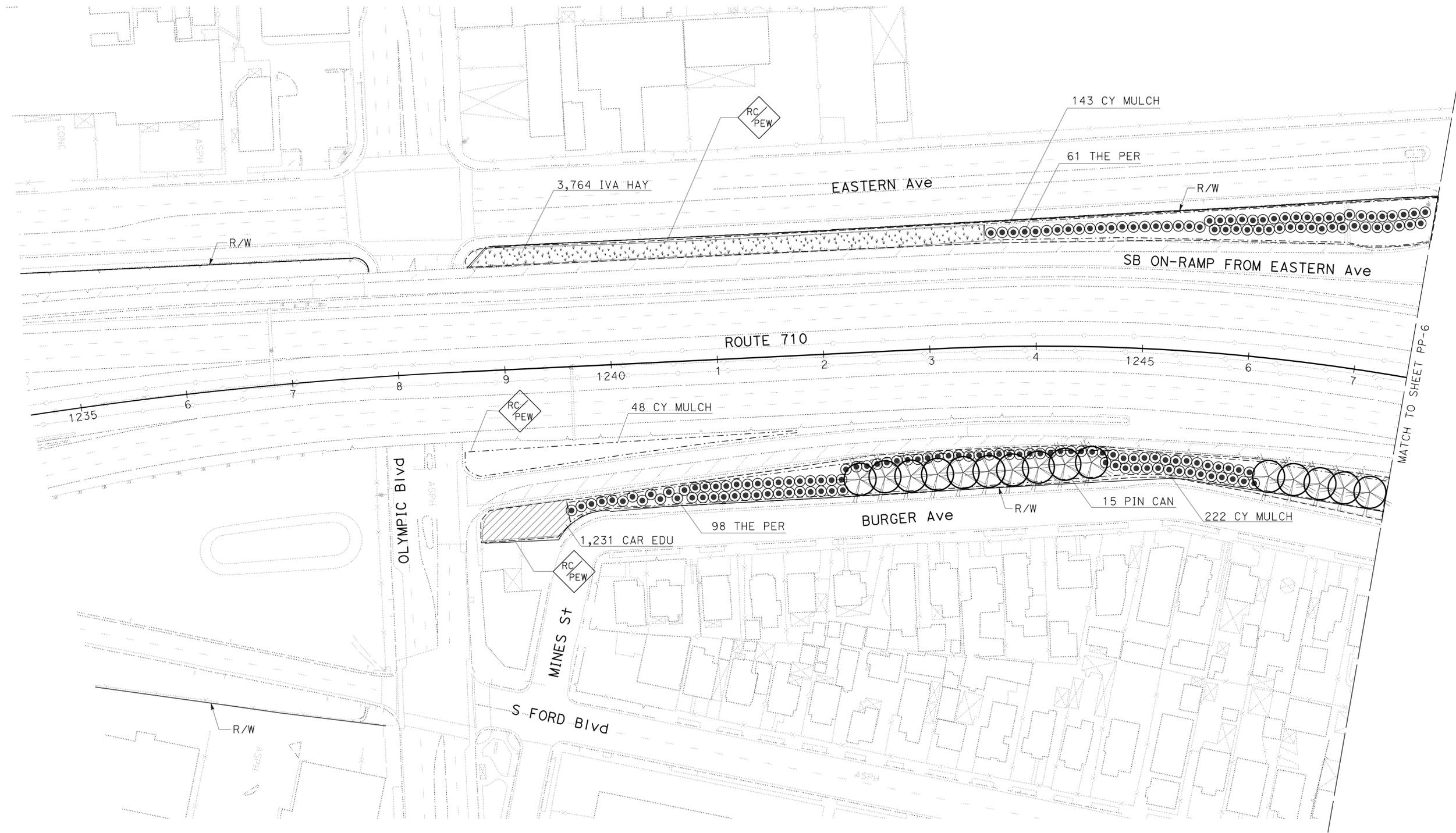


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	47	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT

1-4-16
 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.



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

APPROVED FOR PLANTING WORK ONLY

LAST REVISION | DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

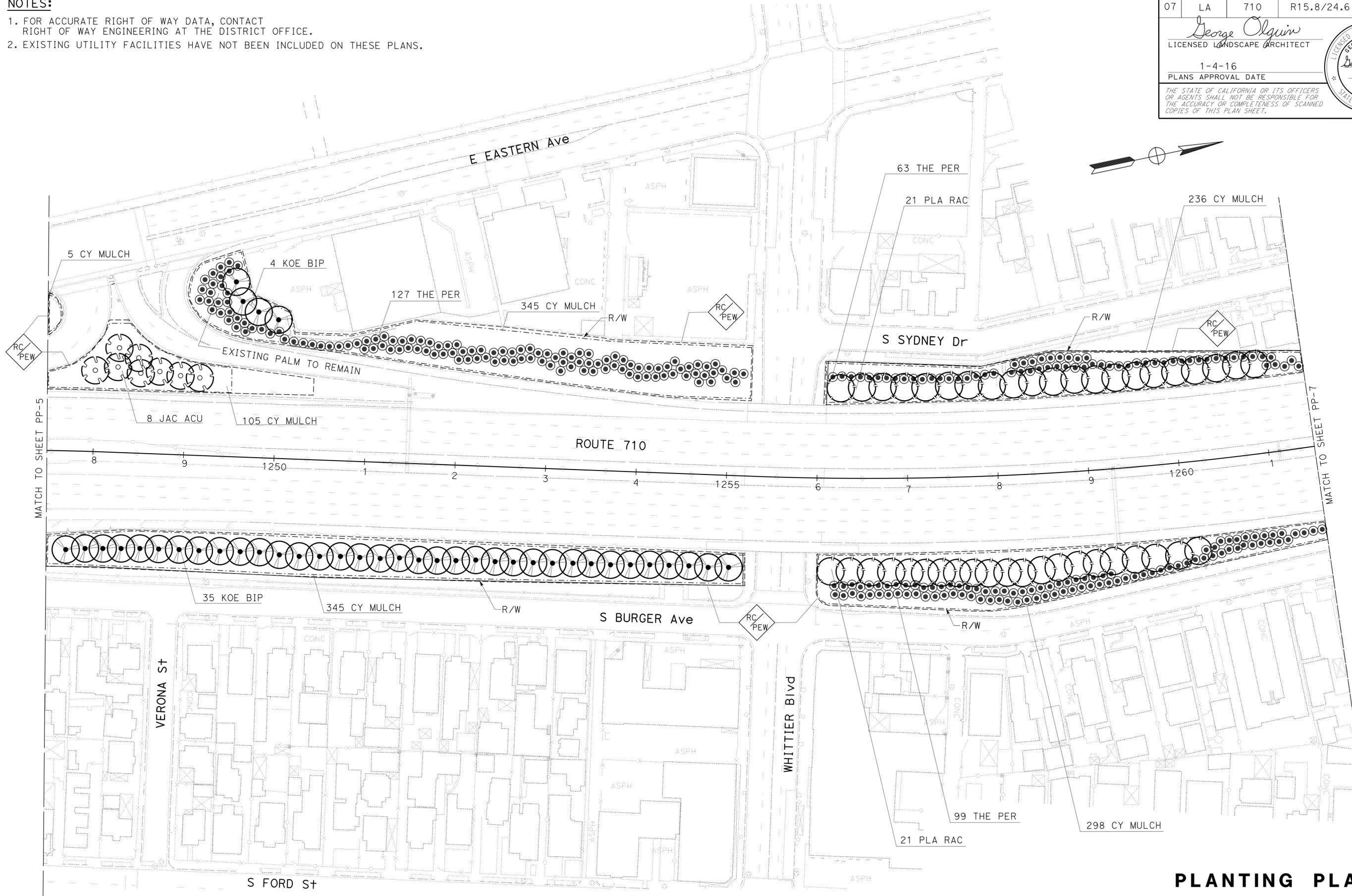
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	48	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4533
 EXPIRES 08-31-16
 RENEWAL DATE 09-30-15
 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:**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.



PLANTING PLAN
 SCALE: 1" = 50'
PP-6

APPROVED FOR IRRIGATION WORK ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 LANDSCAPE ARCHITECTURE
 XUAN WU
 GEORGE OLGUIN
 CALCULATED-DESIGNED BY
 CHECKED BY
 SENIOR LANDSCAPE ARCHITECT
 RON RUSSAK

LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et *Caltrans* LANDSCAPE ARCHITECTURE

REVISOR BY
 XUAN WU

CHECKED BY
 GEORGE OLGUIN

DESIGNED BY
 RON RUSSAK

SENIOR LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECTURE

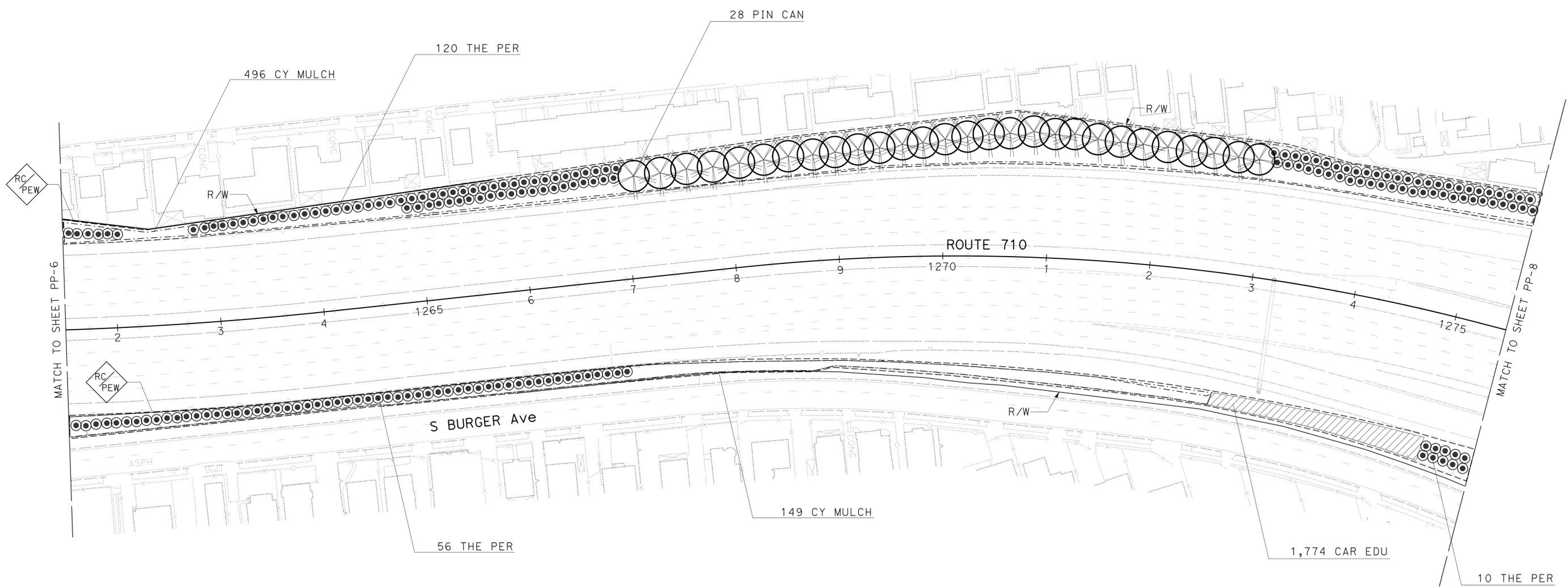
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	49	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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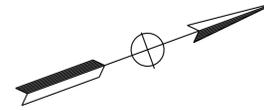
PLANTING PLAN
 SCALE: 1" = 50'
PP-7

APPROVED FOR PLANTING WORK ONLY

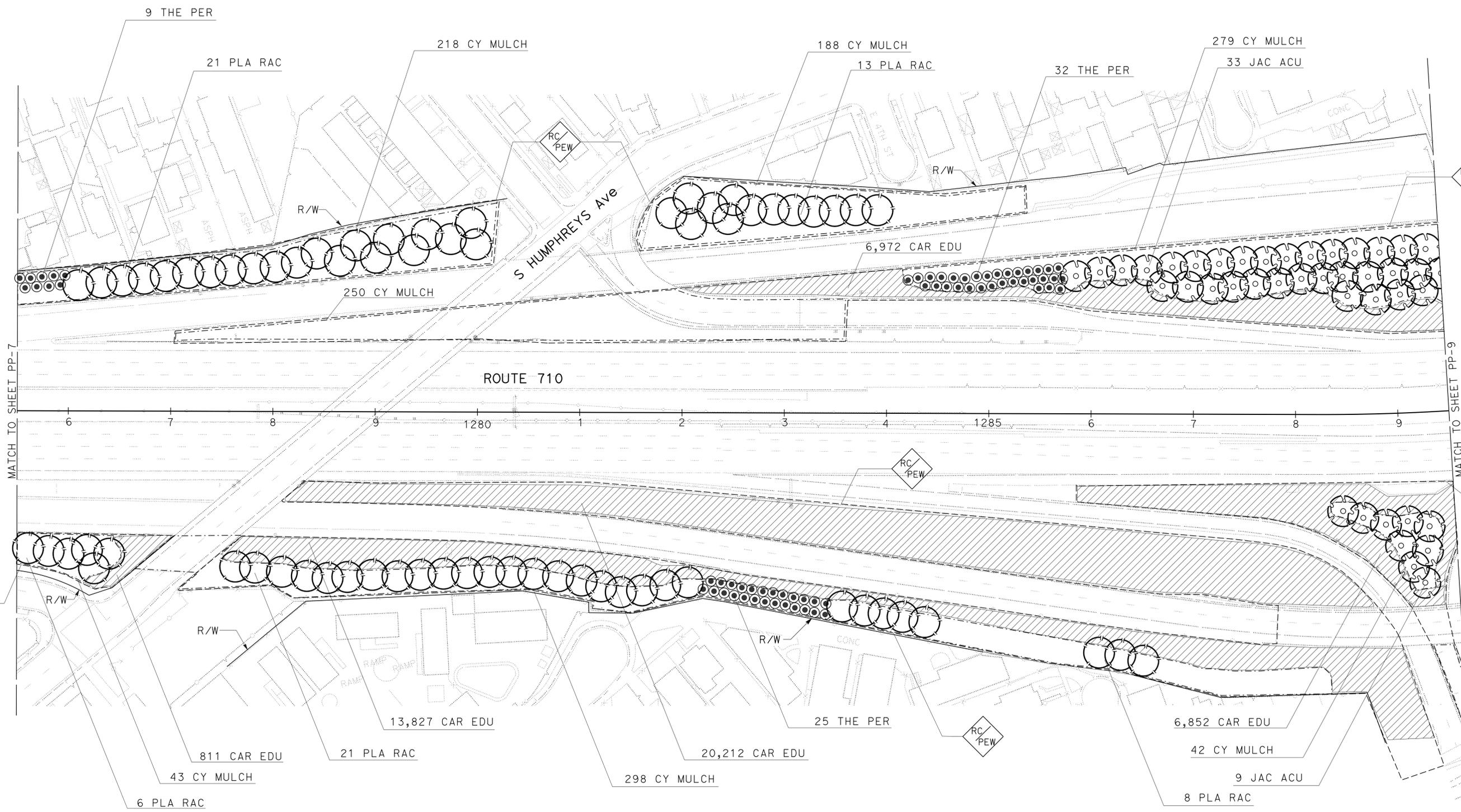
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	50	93
 LICENSED LANDSCAPE ARCHITECT 1-4-16 PLANS APPROVAL DATE					
					
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.



← REMOVE DEAD TREES →



MATCH TO SHEET PP-7

MATCH TO SHEET PP-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	LANDSCAPE ARCHITECTURE
SENIOR LANDSCAPE ARCHITECT	RON RUSSAK
CALCULATED-DESIGNED BY	CHECKED BY
XUAN WU	GEORGE OLGUIN
REVISED BY	DATE REVISED



APPROVED FOR PLANTING WORK ONLY

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

LAST REVISION | DATE PLOTTED => 28-APR-2016
00-00-00 | TIME PLOTTED => 14:26

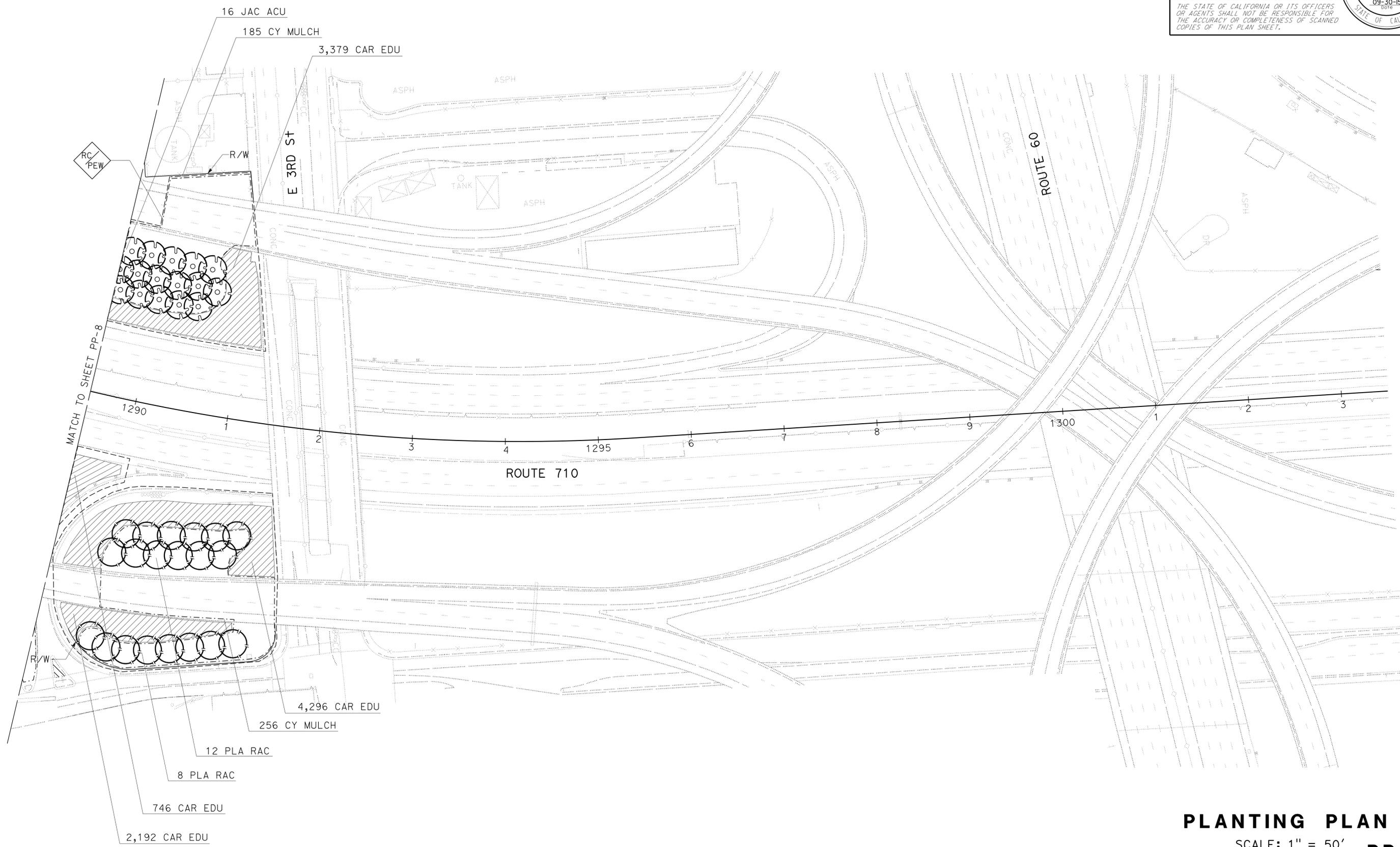
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Gtrans LANDSCAPE ARCHITECTURE
 SENIOR LANDSCAPE ARCHITECT
 XUAN WU
 REVISOR BY
 GEORGE OLGUIN
 CHECKED BY
 RON RUSSAK

NOTES:
 1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 2. EXISTING UTILITY FACILITIES HAVE NOT BEEN INCLUDED ON THESE PLANS.

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	51	93

George Olguin
 LICENSED LANDSCAPE ARCHITECT
 1-4-16
 PLANS APPROVAL DATE

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APPROVED FOR PLANTING WORK ONLY

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

LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:26

IRRIGATION LEGEND

SYMBOL	DESCRIPTION	SPRINKLER TYPE	SPRAY PATTERN	OPERATING PRESSURE (psi)	PRESSURE COMPENSATING ②	PLUS/MINUS 5% ②				FLOW SHUTOFF DEVICE	SPRINKLER ASSEMBLY							REMARKS		
						DISCHARGE		RADIUS (ft)	WIDTH x LENGTH (ft)		RISER		POP-UP		TREE WELL					
						GALLONS PER MINUTE (GPM)	GALLONS PER HOUR (GPH)				TYPE	MATERIAL	SIZE (IPS INCH)	HEIGHT (INCH)		TYPE	INLET CONNECTION (NPT INCH)		SPRINKLER PROTECTOR (TYPE)	HEIGHT (INCH)
⑤ 5	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	A-5	P F	25	—	1.81	—	35	—	X	IV	—	X	1/2	18	—	—	—	—	
△	POP-UP SPRINKLER ASSEMBLY	B-1	Q H	30	—	0.92	—	15	—	—	—	—	—	—	—	I	1/2	—	—	POP-UP
◇	POP-UP SPRINKLER ASSEMBLY	B-5	Q H	55	—	1.85	—	18	—	—	—	—	—	—	—	I	1/2	—	—	POP-UP
○	RISER SPRINKLER ASSEMBLY	C-2	—	30	X	0.85	—	24	—	—	V	X	—	1/2	—	—	—	—	—	BUBBLER
⑦ 7	RISER SPRINKLER ASSEMBLY (GEAR DRIVEN)	A-7	P F	45	—	1.65	—	—	—	X	IV	—	X	1/2	18	—	—	—	—	

X IN BOX DENOTES REQUIREMENT

APPLICABLE WHEN CIRCLED BELOW:

- 1 - SEE SPECIAL PROVISIONS.
- ② - IF A PRESSURE COMPENSATING DEVICE IS SPECIFIED, THE DISCHARGE AND RADII SHOWN REFLECT ITS USE.
- 3 - VINYL-COATED CAST IRON HOUSING.
- 4 - SWING JOINTS REQUIRED ADJACENT TO SHOULDERS, CURBS, SIDEWALKS, AND DIKES.
- 5 - UNLESS OTHERWISE SHOWN ON PLANS.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	52	93

George Olguin
LICENSED LANDSCAPE ARCHITECT

1-4-16
PLANS APPROVAL DATE

LICENSED LANDSCAPE ARCHITECT
 GEORGE OLGUIN
 No. 4333
 Signature
 08-31-16
 Renewal Date
 09-30-15
 date
 STATE OF CALIFORNIA

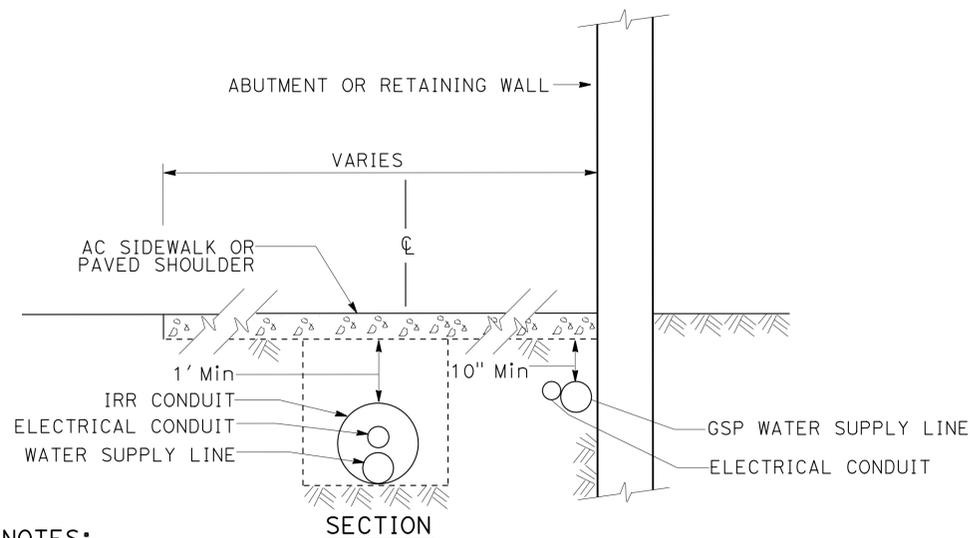
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

SPRINKLERS SIZING CHART (0.25 GPM)
(FOR INFORMATION ONLY)
RISER SPRINKLER ASSEMBLY VINES AND SHRUBS

NUMBER OF SPRINKLERS	SIZE OF PIPE
1-32	3/4"
33-48	1"
49-88	1 1/4"

SPRINKLERS SIZING CHART (0.5 GPM)
(FOR INFORMATION ONLY)
RISER SPRINKLER ASSEMBLY TREES

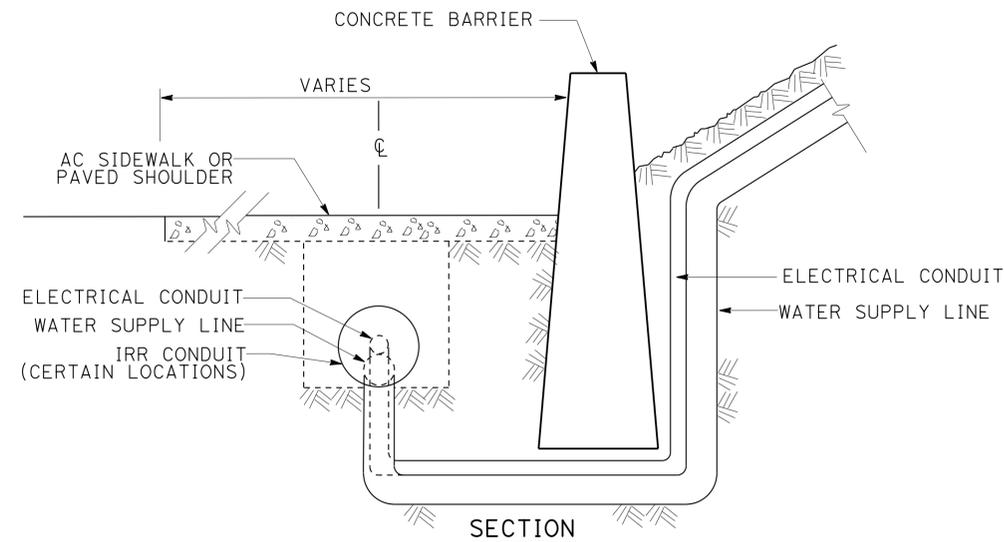
NUMBER OF SPRINKLERS	SIZE OF PIPE
1-16	3/4"
17-24	1"
25-44	1 1/4"
45-60	1 1/2"



NOTES:

- 1. SAW CUT PAVEMENT TO MINIMAL DIMENSIONS TO SECURE PLACEMENT OF GSP AND CONDUIT.
- 2. ROUTE GSP PIPE AND CONDUIT AROUND OBSTRUCTIONS AS REQUIRED.
- 3. PRIOR TO GSP PLACEMENT WRAP PIPE WITH WEATHER PROOF TAPE.

DETAIL FOR CONDUITS



NOTE:

- 1. ROUTE SUPPLY LINE PIPE AND ELECTRICAL CONDUIT UNDERNEATH BARRIER

DETAIL FOR SUPPLY LINE UNDER CONCRETE BARRIER

LANDSCAPE DETAILS

NO SCALE

LD-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR: OSWALD ELIZONDO
 CALCULATED/DESIGNED BY: X. NARANJO
 CHECKED BY: KENNY NGUYEN
 REVISED BY: X. NARANJO
 DATE REVISED: KENNY NGUYEN

NOTES: (THIS SHEET ONLY)

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

LEGEND: (THIS SHEET ONLY)

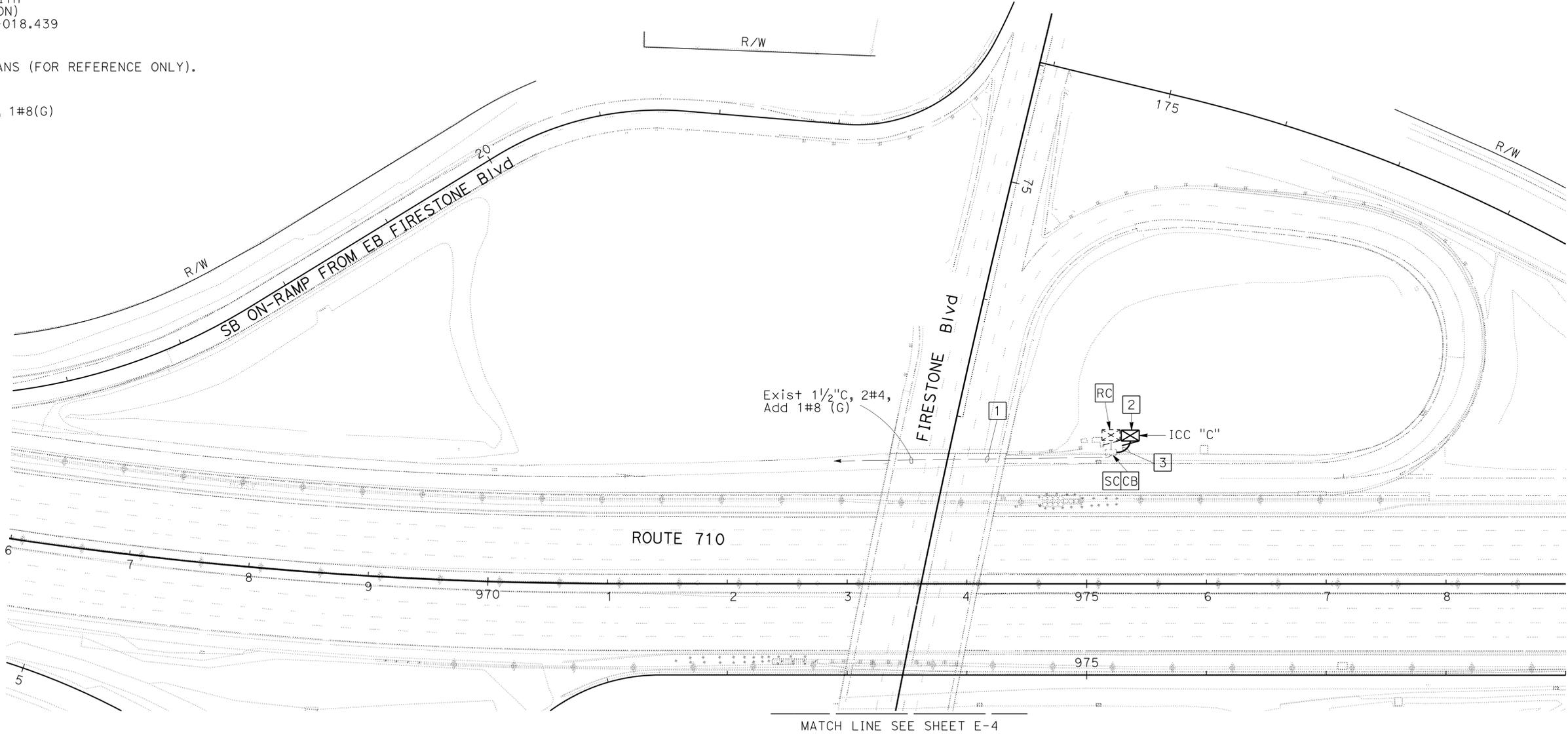
- To Exist 120 / 240 V TYPE III-B METERED SERVICE WITH 15 A, CB (IRRIGATION) CTID: 07-53-710-0-018.439
- SEE IRRIGATION PLANS (FOR REFERENCE ONLY).
- INSTALL 1/2"C, 2#4, 1#8(G)

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	57	93

Kenny Nguyen 9/8/15
 REGISTERED ELECTRICAL ENGINEER DATE
 1-4-16
 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
 KENNY NGUYEN
 No. E. 17759
 Exp. 06/30/16
 ELECTRICAL
 STATE OF CALIFORNIA



ELECTRIC SERVICE FOR IRRIGATION

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

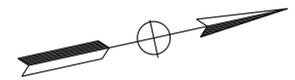
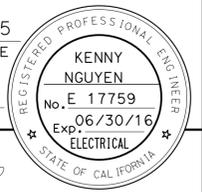
E-3

LAST REVISION DATE PLOTTED => 28-APR-2016 00-00-00 TIME PLOTTED => 14:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	58	93

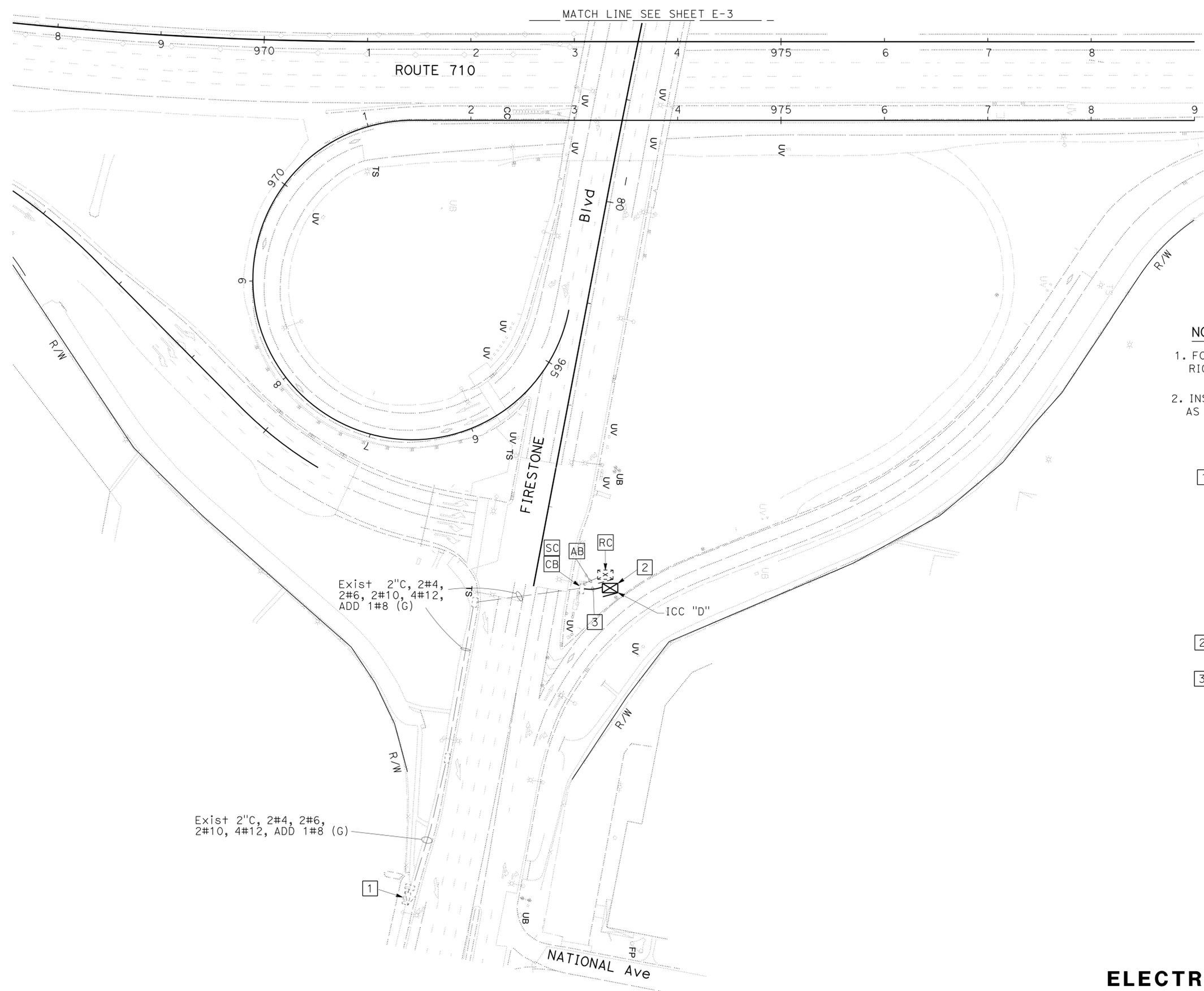
<i>Kenny Nguyen</i>	9/8/15
REGISTERED ELECTRICAL ENGINEER	DATE
1-4-16	
PLANS APPROVAL DATE	

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- NOTES: (THIS SHEET ONLY)**
- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
 - INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

- LEGEND: (THIS SHEET ONLY)**
- Exist 120 /240V TYPE-III BF METERED SIGNAL SERVICE ENCLOSURE WITH TYPE II PEC:
 100 A, 240 V, 3P, CB-MAIN
 50 A, 120 V, 2P, CB-SIGNALS
 30 A, 240 V, 2P, CB-LIGHTING
 20 A, 120 V, 1P, CB-IRRIGATION
 15 A, 120 V, 1P, CB-IISNS
 15 A, 120 V, 1P, PEC
 ADDRESS: 5626 1/2 FIRESTONE Blvd
 CTID: 07-53-710-0-018.439
 - SEE IRRIGATION PLANS (FOR REFERENCE ONLY).
 - INSTALL 1/2"C, 2#6, 1#8 (G)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: OSWALD ELIZONDO

CALCULATED/DESIGNED BY: X. NARANJO
 CHECKED BY: KENNY NGUYEN

REVISOR: X. NARANJO
 DATE: 7/2/2010

ELECTRIC SERVICE FOR IRRIGATION

SCALE: 1" = 50'

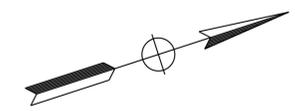
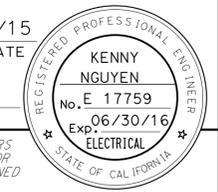
E-4

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	59	93

<i>Kenny Nguyen</i>	9/8/15
REGISTERED ELECTRICAL ENGINEER	DATE
1-4-16	
PLANS APPROVAL DATE	

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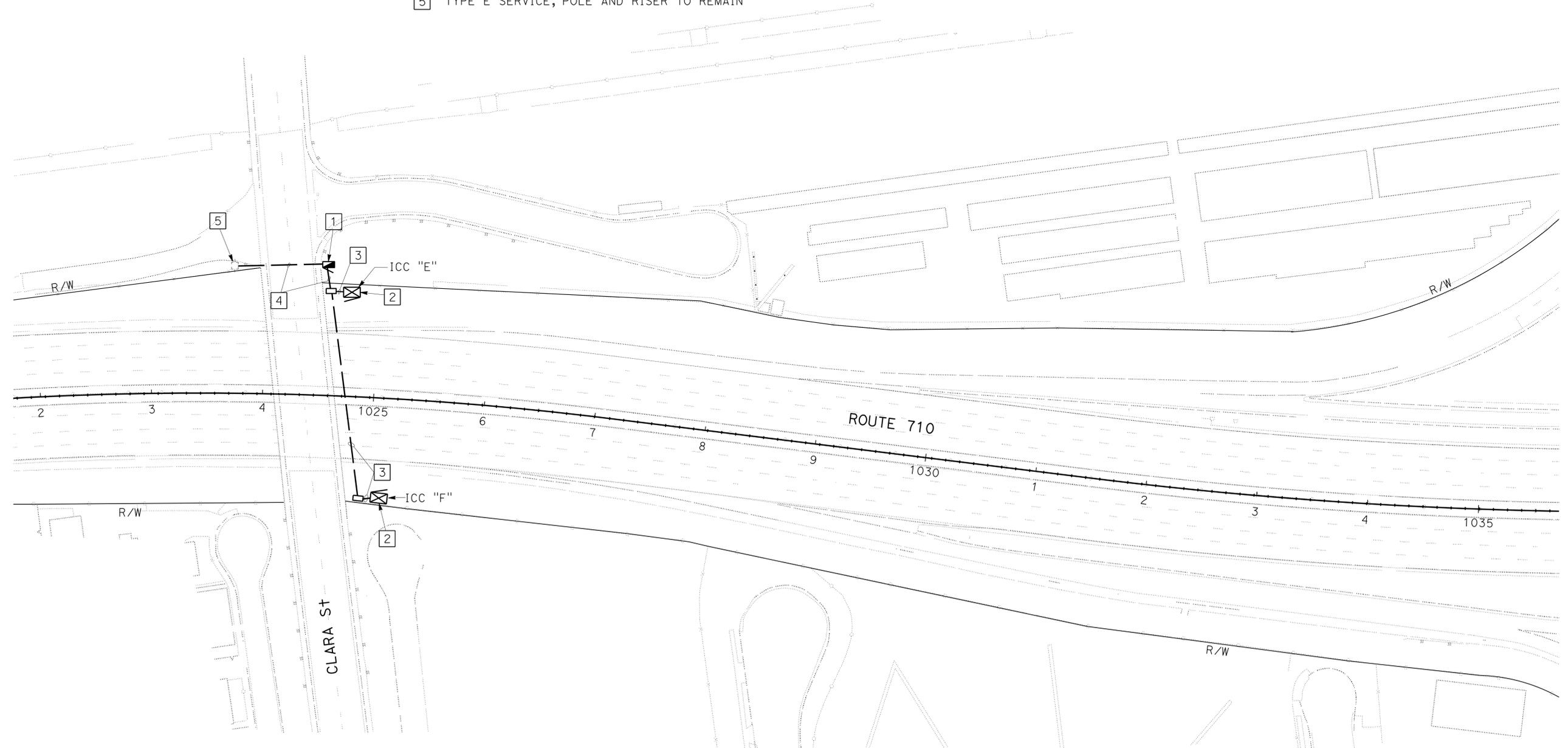


NOTES: (THIS SHEET ONLY)

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

LEGEND: (THIS SHEET ONLY)

- INSTALL 120 /240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE WITH:
100 A, 240 V, 2P, CB-MAIN
2-20 A, 120 V, 1P, CB-IRRIGATION
ADDRESS: 5520 1/2 CLARA ST
CTID: 07-53-710-0-019.40
- SEE IRRIGATION PLANS (FOR REFERENCE ONLY).
- INSTALL 1 1/2" C, 2#10, 1#8(G)
- INSTALL 2" C, 4#10, 1#8(G)
- TYPE E SERVICE, POLE AND RISER TO REMAIN



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
Caltrans TRAFFIC DESIGN	OSWALD ELIZONDO	X. NARANJO	
		KENNY NGUYEN	

ELECTRIC SERVICE FOR IRRIGATION

SCALE: 1" = 50'

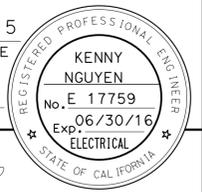
E-5

APPROVED FOR ELECTRICAL WORK ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	60	93

Kenny Nguyen	9/8/15
REGISTERED ELECTRICAL ENGINEER	DATE
1-4-16	
PLANS APPROVAL DATE	

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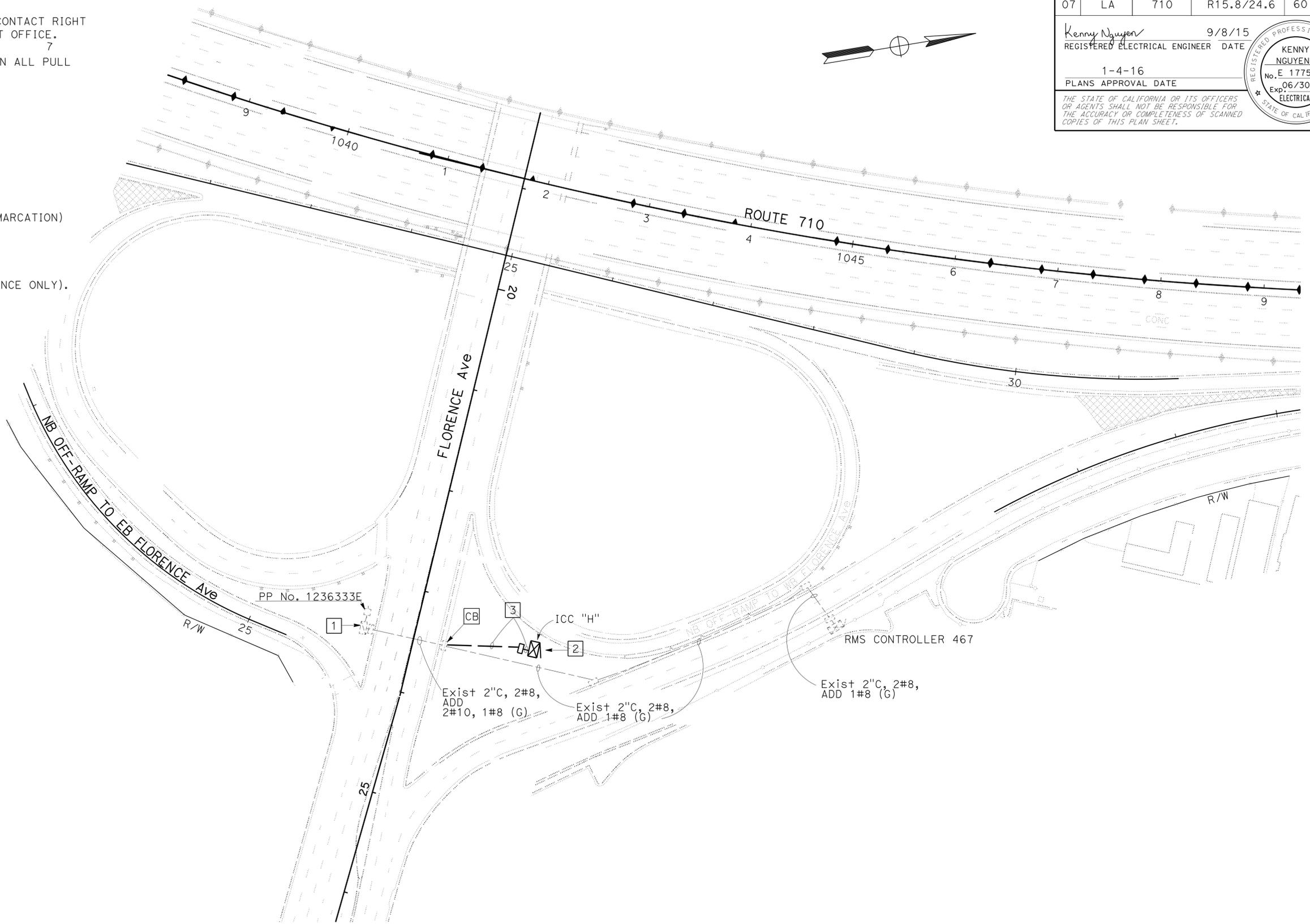


NOTES: (THIS SHEET ONLY)

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

LEGEND: (THIS SHEET ONLY)

- Exist 120 /240 V TYPE III-C SERVICE EQUIPMENT ENCLOSURE WITH TYPE V PEC AND: 100 A, 2P, MAIN CIRCUIT BREAKER 20 A, 120' V, 1P, CB-(TELEPHONE DEMARCATION) ADD 1-20 A, 2P, CB-(IRRIGATION) ADDRESS: 5701 1/2 FLORENCE Ave CTID: 07-53-710-0-019.505
- SEE IRRIGATION PLANS (FOR REFERENCE ONLY).
- INSTALL 2"C, 2#10, 1#8 (G)



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR
OSWALD ELIZONDO
CALCULATED/DESIGNED BY
CHECKED BY
X. NARANJO
KENNY NGUYEN
REVISOR BY
DATE REVISED

ELECTRIC SERVICE FOR IRRIGATION

APPROVED FOR ELECTRICAL WORK ONLY

SCALE: 1" = 50'

E-6

NOTES: (THIS SHEET ONLY)

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

LEGEND: (THIS SHEET ONLY)

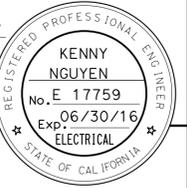
- Exist 120 V TYPE III-B METERED SERVICE WITH 40 A, CIRCUIT BREAKER 20 A, CB (TELEPHONE DEMARCATION) ADD 20 A, 120 V, 1P, CB (IRRIGATION) ADDRESS: 5508 1/2 AGRA ST IN ALLEY CTID: 07-53-710-0-020.267
- SEE IRRIGATION PLANS (FOR REFERENCE ONLY).
- INSTALL 1 1/2" C, 2#10, 1#8(G)



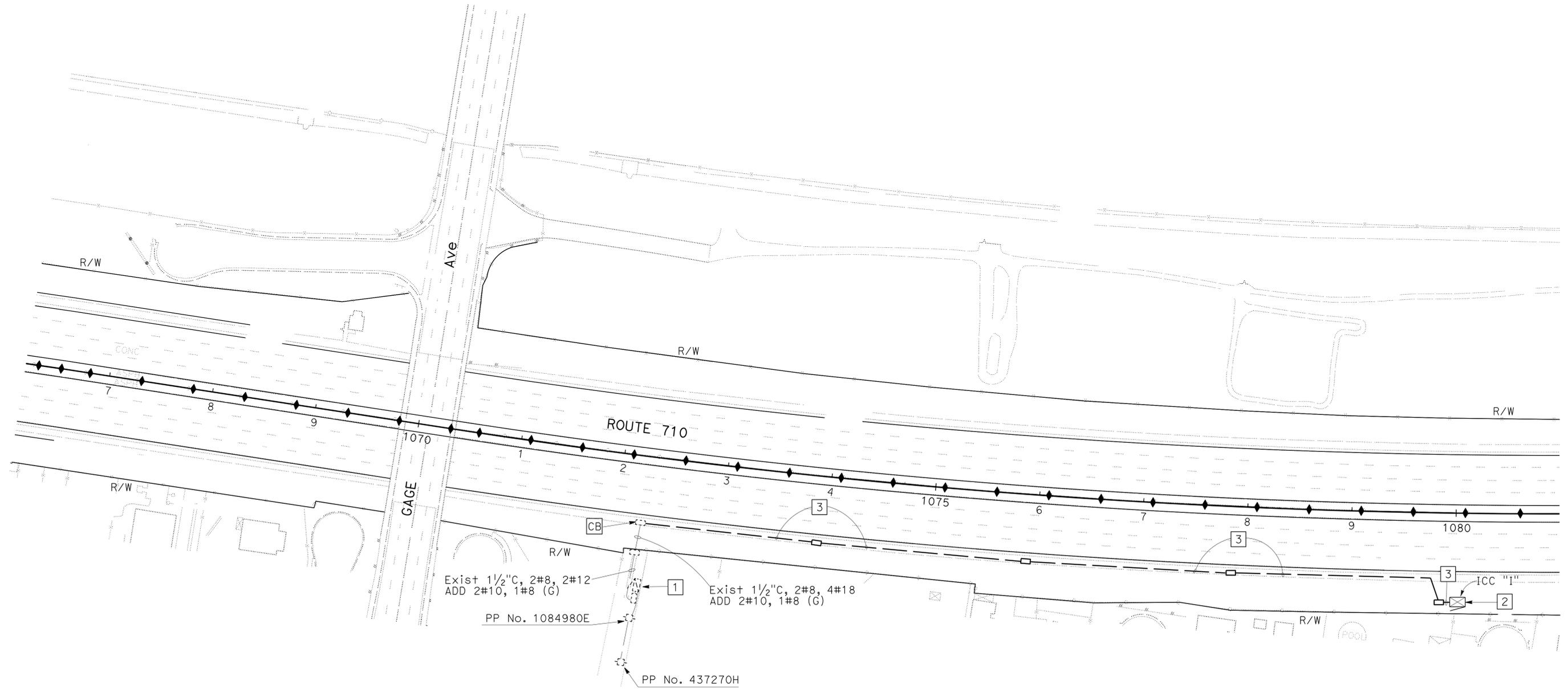
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	61	93

Kenny Nguyen	9/8/15
REGISTERED ELECTRICAL ENGINEER	DATE
1-4-16	
PLANS APPROVAL DATE	

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR
 OSWALD ELIZONDO
 CALCULATED/DESIGNED BY
 CHECKED BY
 X. NARANJO
 KENNY NGUYEN
 REVISED BY
 DATE REVISED



ELECTRIC SERVICE FOR IRRIGATION

SCALE: 1" = 50'

E-7

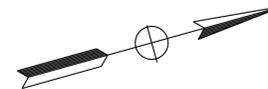
APPROVED FOR ELECTRICAL WORK ONLY

NOTES: (THIS SHEET ONLY)

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

LEGEND: (THIS SHEET ONLY)

- 1 INSTALL 1/2" C, 2#10, 1#8 (G)
- 2 SEE IRRIGATION PLANS (FOR REFERENCE ONLY).

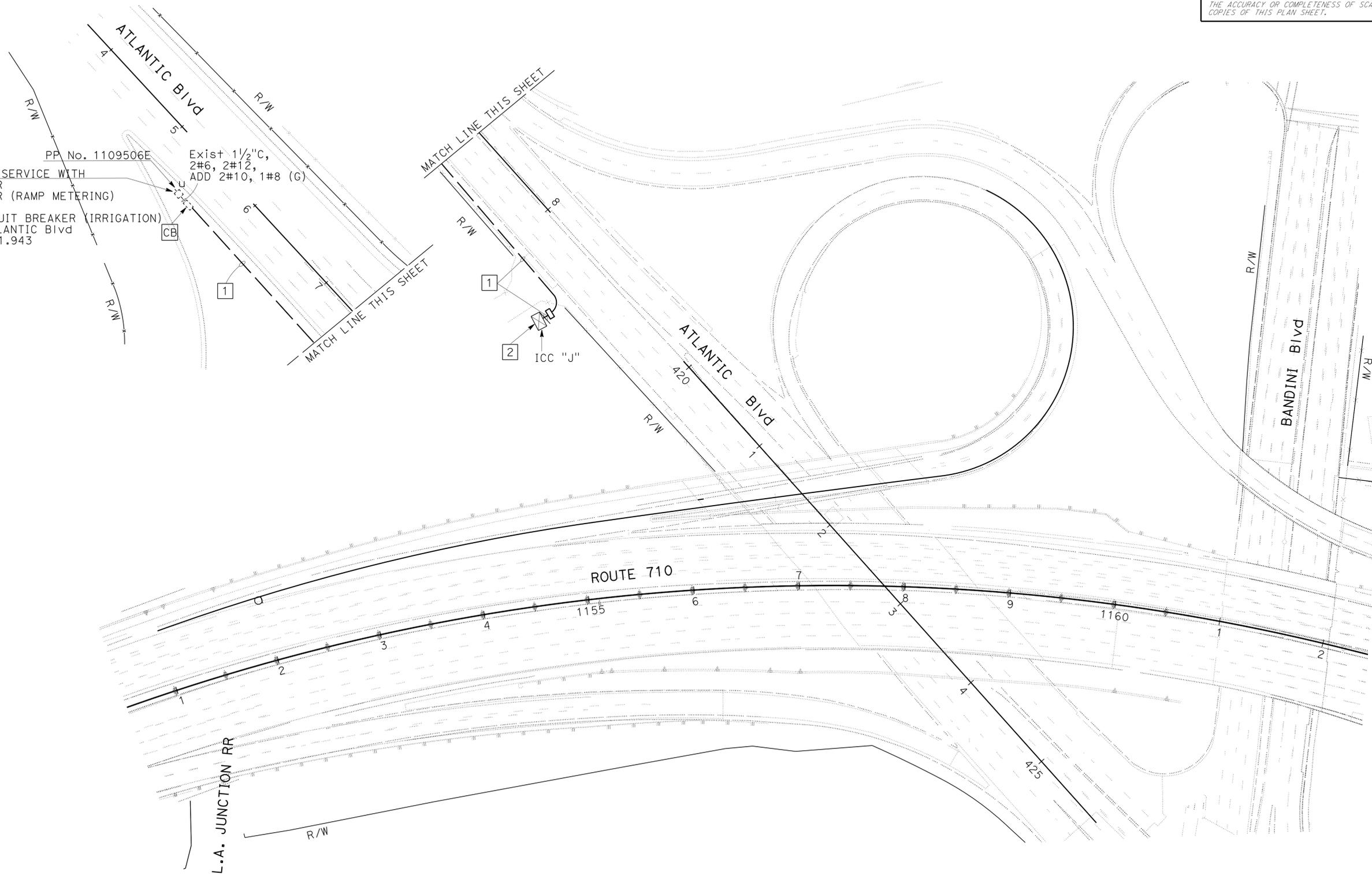


Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	62	93
Kenny Nguyen			9/8/15		
REGISTERED ELECTRICAL ENGINEER			DATE		
1-4-16			PLANS APPROVAL DATE		
<small>THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.</small>					

REGISTERED PROFESSIONAL ENGINEER
 KENNY NGUYEN
 No. E. 17759
 Exp. 06/30/16
 ELECTRICAL
 STATE OF CALIFORNIA

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR
OSWALD ELIZONDO
CALCULATED/DESIGNED BY
CHECKED BY
X. NARANJO
KENNY NGUYEN
REVISED BY
DATE REVISED

PP No. 1109506E
 Exist 120 V METERED SERVICE WITH
 40 A, CIRCUIT BREAKER
 20 A, CIRCUIT BREAKER (RAMP METERING)
 ADD
 20 A, 120 V, 1P, CIRCUIT BREAKER (IRRIGATION)
 ADDRESS: 2977 1/2 ATLANTIC Blvd
 CTID: 07-53-710-0-021.943



ELECTRIC SERVICE FOR IRRIGATION

SCALE: 1" = 50'

E-8

APPROVED FOR ELECTRICAL WORK ONLY

NOTES: (THIS SHEET ONLY)

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- INSTALL TAMPER RESISTANT COVERS ON ALL PULL BOXES, AS SHOWN, SEE DETAIL SHEET.

LEGEND: (THIS SHEET ONLY)

- Exist 120 /240V TYPE-III BF SERVICE CABINET WITH:
20 A, 120 V, 1P, CB-IRRIGATION
ADDRESS: 4362 1/2 EAGLE ST
CTID: 07-53-710-0-024.360
- SEE IRRIGATION PLANS (FOR REFERENCE ONLY).
- INSTALL 1 1/2" C, 2#10, 1#8 (G)
- Exist 120 /240V TYPE-III BF SERVICE CABINET WITH:
30 A, 240 V, 3P, CB- BOOSTER PUMP
20 A, 120 V, 1P, CB-IRRIGATION
ADDRESS: 478 1/2 S HUMPHREYS Ave
CTID: 07-53-710-0-024.218

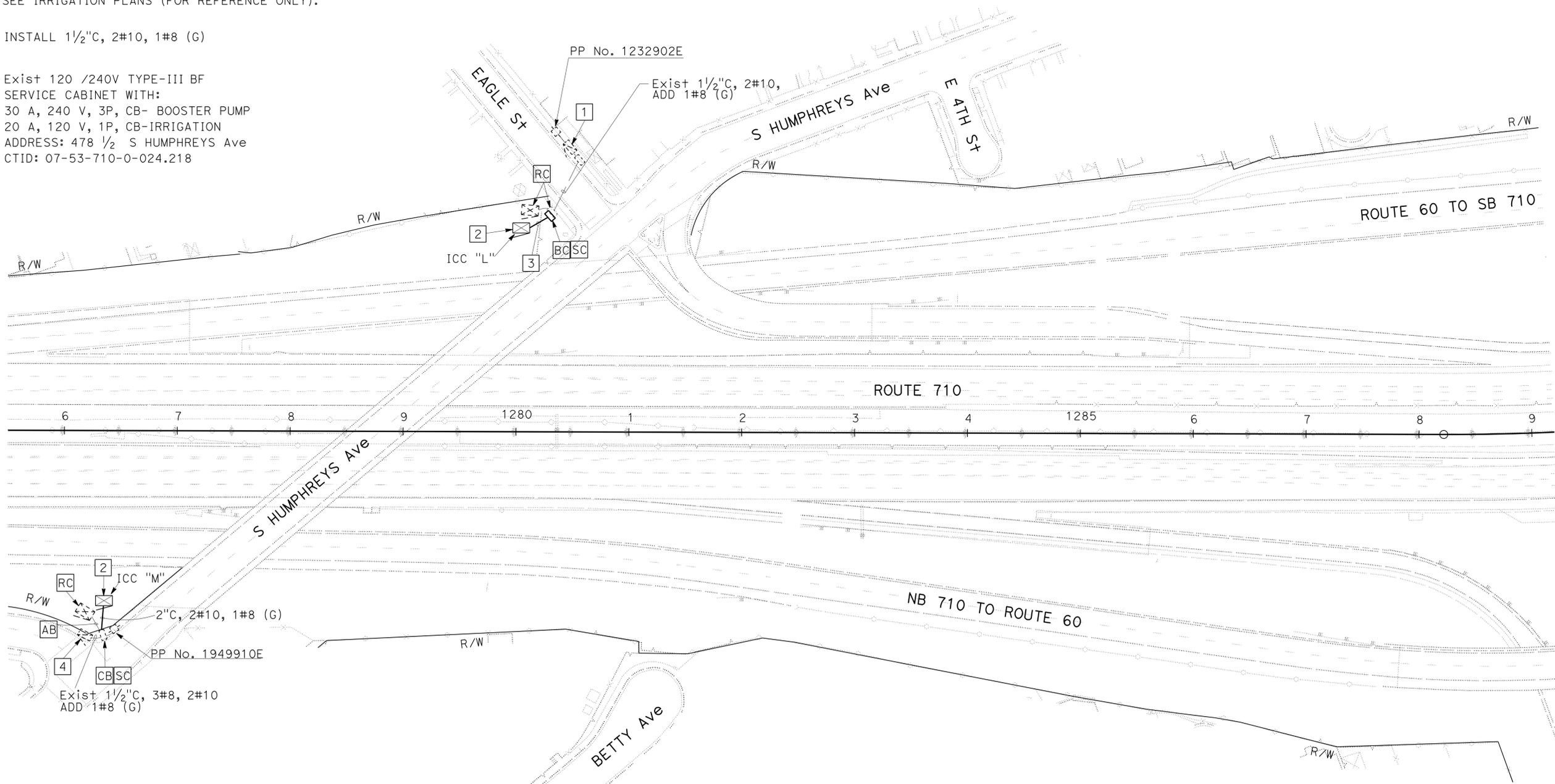
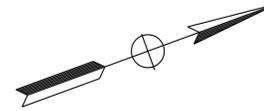
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	64	93

Kenny Nguyen 9/8/15
REGISTERED ELECTRICAL ENGINEER DATE

1-4-16
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
KENNY NGUYEN
No. E. 17759
Exp. 06/30/16
ELECTRICAL
STATE OF CALIFORNIA



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
 FUNCTIONAL SUPERVISOR
 OSWALD ELIZONDO
 CALCULATED/DESIGNED BY
 CHECKED BY
 X. NARANJO
 KENNY NGUYEN
 REVISED BY
 DATE REVISED

ELECTRIC SERVICE FOR IRRIGATION

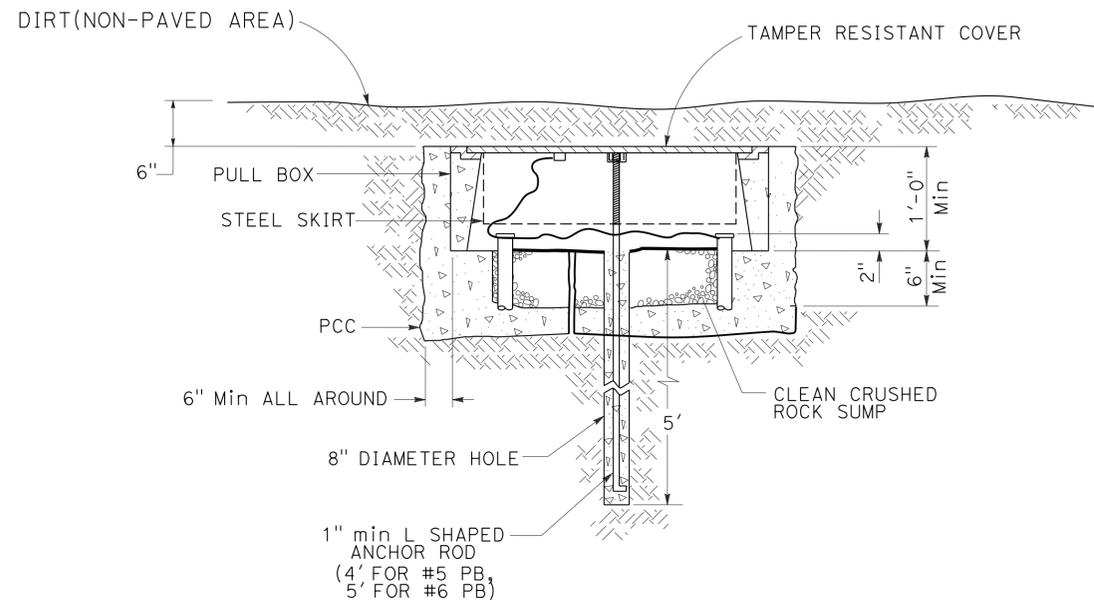
SCALE: 1" = 50'

E-10

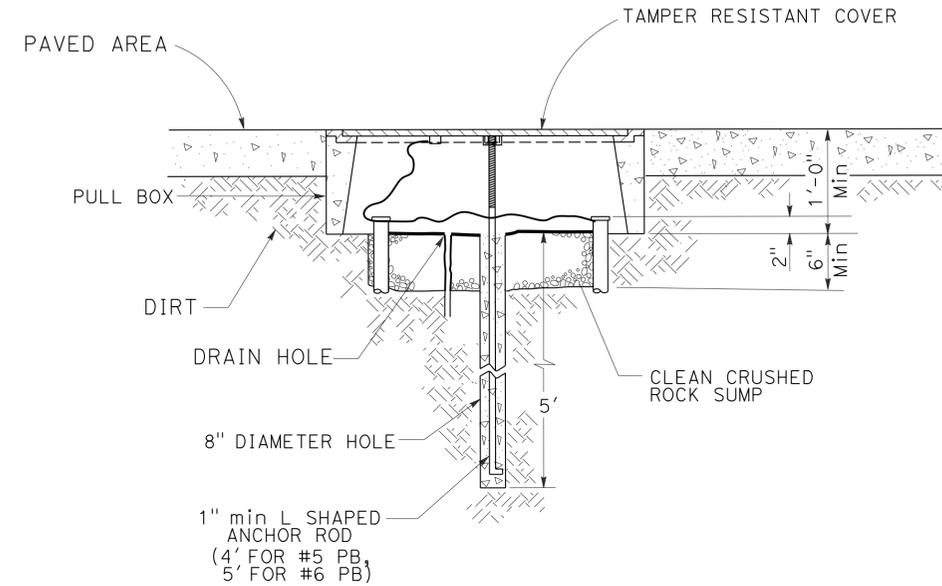
APPROVED FOR ELECTRICAL WORK ONLY

LAST REVISION DATE PLOTTED => 28-APR-2016
 00-00-00 TIME PLOTTED => 14:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	66	93
Kenny Nguyen		9/8/15		REGISTERED ELECTRICAL ENGINEER DATE	
1-4-16		PLANS APPROVAL DATE		REGISTERED PROFESSIONAL ENGINEER	
				Kenny NGUYEN	
				No. 17759	
				Exp. 6/30/16	
				ELECTRICAL	
<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>					



PULL BOX INSTALLATION DETAILS
(NON-PAVED AREAS)



PULL BOX INSTALLATION DETAILS
(PAVED AREAS)

(TAMPER RESISTANT PULL BOX INSTALLATION DETAILS)

ELECTRICAL DETAILS

NO SCALE

E-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	CALCULATED-DESIGNED BY	REVISOR	DATE
Caltrans	OSWALD ELIZONDO	CHECKED BY	XOCHILT NARANJO	KENNY NGUYEN
TRAFFIC DESIGN				

NOTE:

ITEMS SHOWN ON TABLE ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	67	93

Kenny Nguyen 9/8/15
 REGISTERED ELECTRICAL ENGINEER DATE

1-4-16
 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.

ELECTRIC SERVICE FOR IRRIGATION

SHEET No.	(N) No. 5 PB	(N) No. 6 CONDUCTOR	(N) No. 8 CONDUCTOR	(N) No. 10 CONDUCTOR	(N) 1#8 (G)	(N) SIZE 1 1/2" C CONDUIT	(N) SIZE 2" C CONDUIT	(N) SIZE 3" C CONDUIT	(N) TYPE III-BF	(N) TAMPER RESISTANT COVER	(N) [RC] ICC CONTROLLER
	EA	LF	LF	LF	LF	LF	LF	LF	EA	EA	EA
E-1	1	-	-	20	10	10	-	-	-	2	-
E-2	2	-	-	50	25	25	-	50	1	2	-
E-3	-	-	-	40	20	20	-	-	-	1	1
E-4	-	40	-	-	405	20	-	-	-	4	1
E-5	2	-	-	870	325	215	110	-	1	2	-
E-6	1	-	-	310	155	-	155	-	-	6	-
E-7	4	-	-	1756	878	800	-	-	-	7	-
E-8	1	-	-	738	370	370	-	-	-	2	-
E-9	1	-	-	84	42	10	32	-	-	2	1
E-10	1	-	-	194	97	20	22	-	-	3	2
E-11	-	-	50	-	377	25	-	-	-	5	1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

ELECTRICAL QUANTITIES

	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	
MtI	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	
Obir	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 MtI	PERMEABLE MATERIAL	

	P continued	
PG	PROFILE GRADE	
PI	POINT OF INTERSECTION	
PJP	PARTIAL JOINT PENETRATION	
Pkwy	PARKWAY	
PL, 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	
SL	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	
TeI	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	
WWL	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
07	LA	710	R15.8/24.6	68	93
<i>Grace M. Tsushima</i> REGISTERED CIVIL ENGINEER					
July 19, 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>					



TO ACCOMPANY PLANS DATED 1-4-16

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
kíp	1,000 POUNDS
cal	CALORIE
ft	FOOT OR FEET
gal	GALLON

* For use on a sign panel only

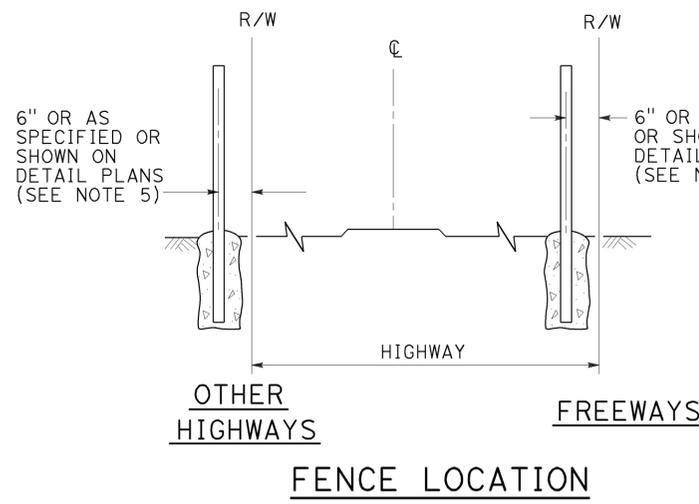
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ABBREVIATIONS
(SHEET 2 OF 2)**

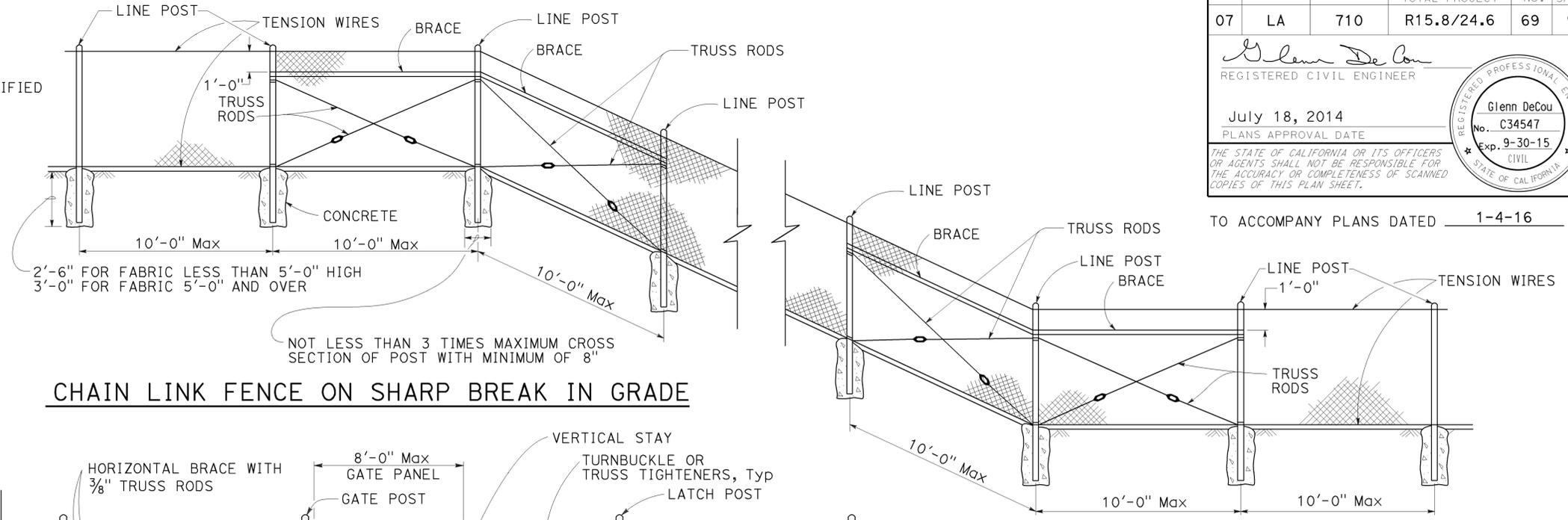
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RSP A10B DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN A10B
DATED MAY 20, 2011 - PAGE 2 OF THE STANDARD PLANS BOOK DATED 2010.

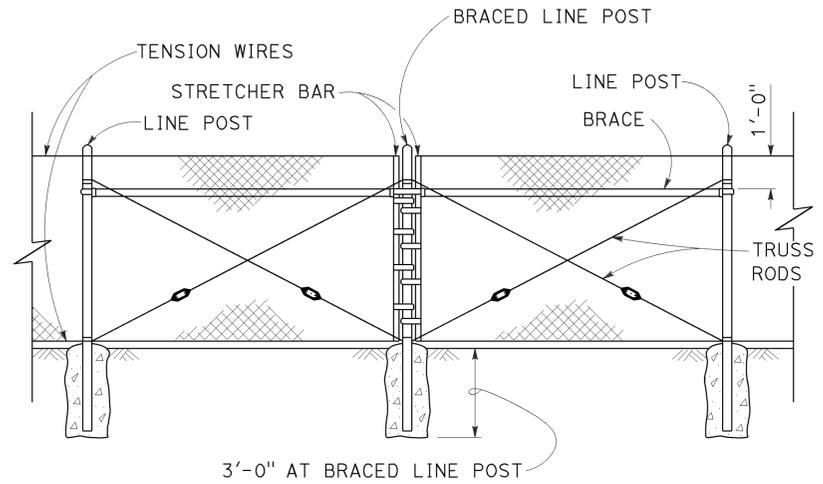
2010 REVISED STANDARD PLAN RSP A10B



FENCE LOCATION

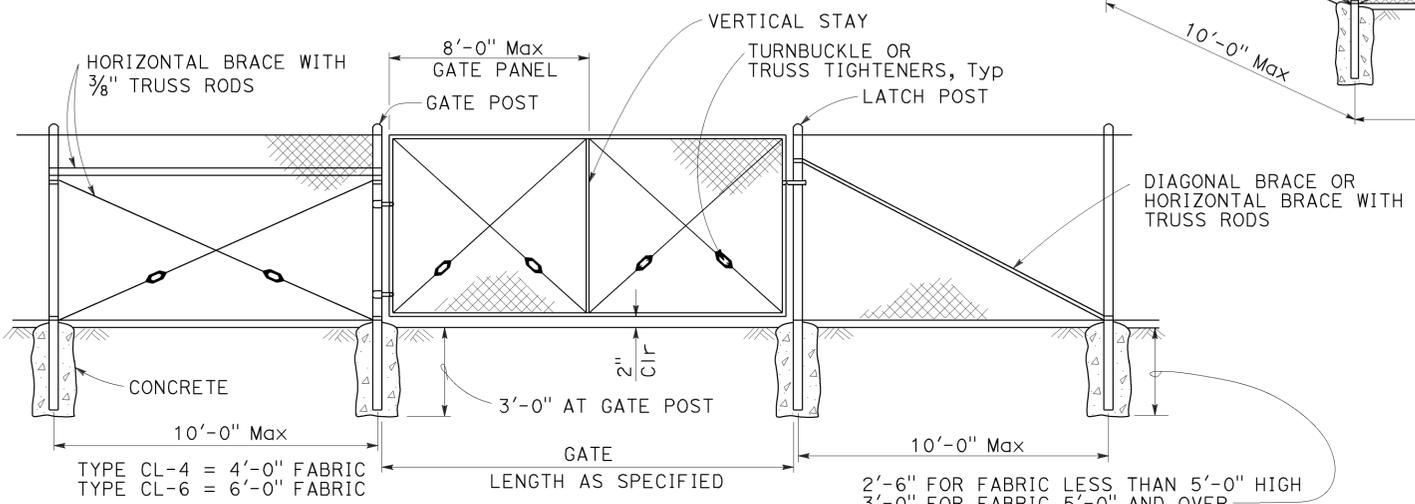


CHAIN LINK FENCE ON SHARP BREAK IN GRADE



BRACED LINE POST INSTALLATION

Braced line post at intervals not exceeding 1000'



CHAIN LINK GATE INSTALLATION

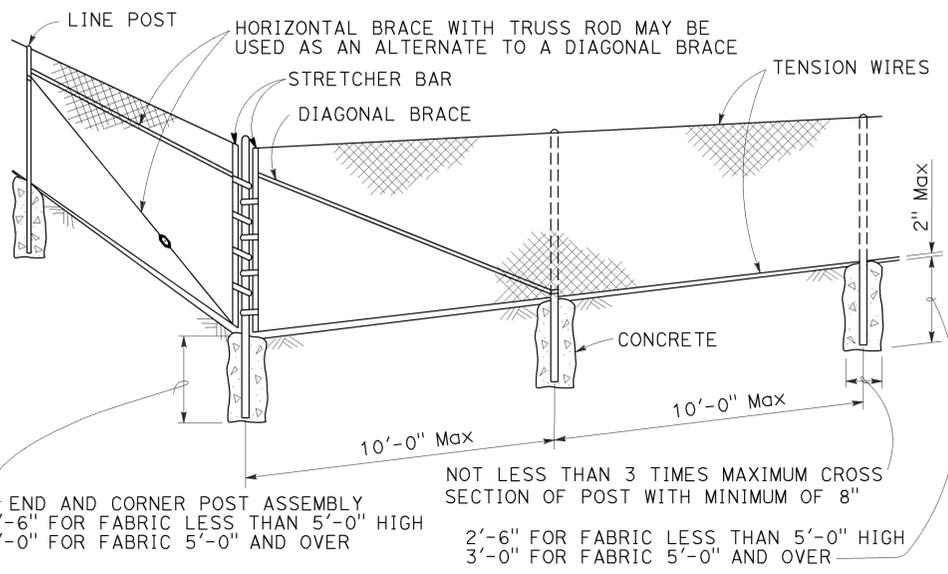
GATE POST			
FENCE HEIGHT	GATE WIDTHS	ROUND OD PIPE	WEIGHT (lb/ft)
6'-0" AND LESS	UP THRU 6'-0"	2.875"	5.80
	OVER 6'-0" THRU 12'-0"	4.500"	10.80
	OVER 12'-0" THRU 18'-0"	5.563"	14.63
OVER 6'-0" TO 8'-0" Max	OVER 18'-0" TO 24'-0" Max	6.625"	18.99
	UP THRU 6'-0"	3.500"	7.58
	OVER 6'-0" THRU 12'-0"	5.563"	14.63
	OVER 12'-0" THRU 18'-0"	6.625"	18.99
	OVER 18'-0" TO 24'-0" Max	8.625"	28.58

Above post dimensions and weights are minimums. Larger sizes may be used upon approval.

NOTES:

- The table below shows minimum sized posts and braces complying with the specifications. Larger or heavier post and brace sizes may be used upon approval.
- Sections shown in the tables must also comply with the strength requirements and other provisions of the Specifications.
- Other sections which comply with the strength requirements and other provisions of the Specifications may be used upon approval.
- Options exercised shall be uniform on any one project.
- Offset to be 2'-0" at monument locations, measured at right angles to R/W lines. Taper to achieve offset to be at least 20'-0" long.
- See Revised Standard Plan RSP A85B for Brace, Stretcher Bar, and Truss Tightener Details.

FENCE HEIGHT	TYPICAL MEMBER DIMENSIONS (See Notes)									
	LINE POSTS				END, LATCH AND CORNER POSTS		BRACES			
	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED		ROUND OD PIPE	WEIGHT (lb/ft)	ROUND OD PIPE	WEIGHT (lb/ft)	ROLL FORMED	
			SECTION	WEIGHT (lb/ft)					SECTION	WEIGHT (lb/ft)
6'-0" AND LESS	1.900"	2.72	1.875" x 1.625"	1.85	2.375"	3.65	1.66"	2.27	1.625" x 1.25"	1.35
OVER 6'-0" TO 8'-0" Max	2.375"	3.65	2.25" x 1.70"	2.78	2.875"	5.80	1.66"	2.27	1.625" x 1.25"	1.35



CORNER POST

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
CHAIN LINK FENCE
NO SCALE

RSP A85 DATED JULY 18, 2014 SUPERSEDES STANDARD PLAN A85 DATED MAY 20, 2011 - PAGE 112 OF THE STANDARD PLANS BOOK DATED 2010.

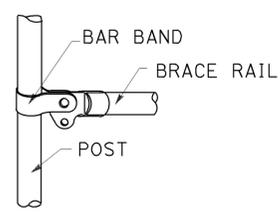
REVISED STANDARD PLAN RSP A85

2010 REVISED STANDARD PLAN RSP A85

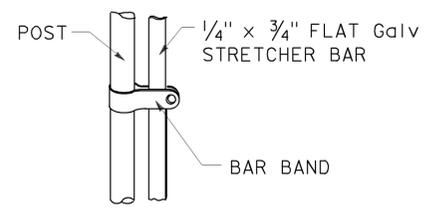
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	710	R15.8/24.6	70	93

Glenn DeCou
 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.

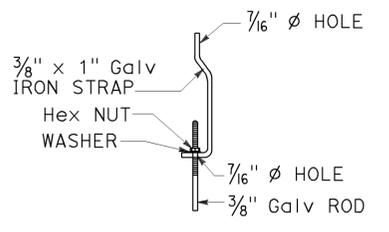
REGISTERED PROFESSIONAL ENGINEER
 Glenn DeCou
 No. C34547
 Exp. 9-30-13
 CIVIL
 STATE OF CALIFORNIA



BRACE RAIL



STRETCHER BAR

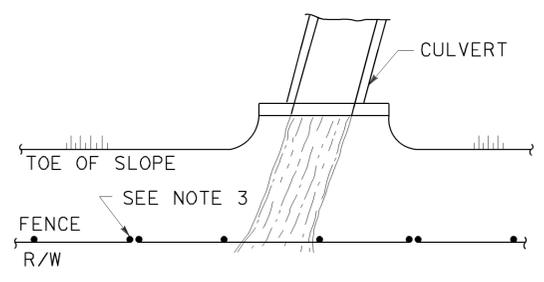


TRUSS TIGHTENER

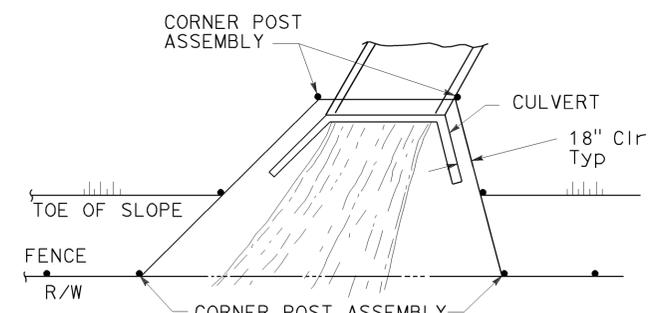
NOTES:

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.

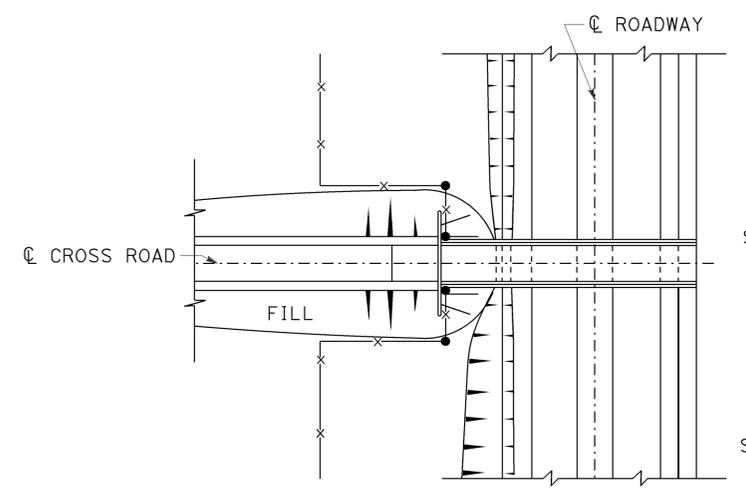
TO ACCOMPANY PLANS DATED 1-4-16



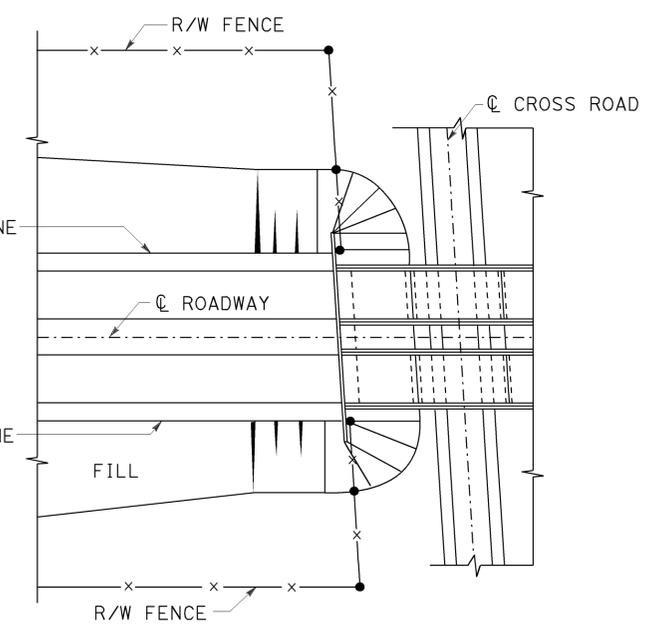
PLAN



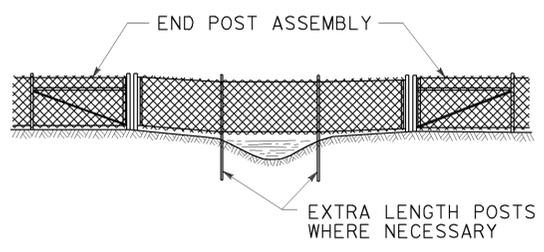
PLAN



PLAN OF ROADWAY - OVERCROSSING

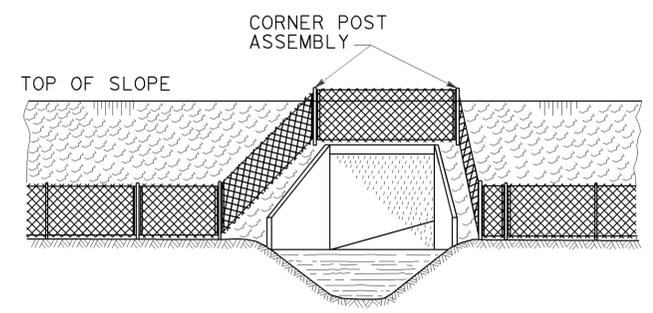


PLAN OF ROADWAY - UNDERCROSSING



ELEVATION

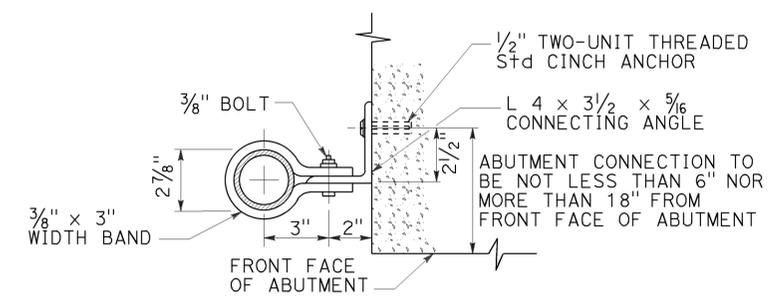
INSTALLATION OVER STREAM



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

2010 REVISED STANDARD PLAN RSP A85B

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	71	93

Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT

July 19, 2013
 PLANS APPROVAL DATE

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TO ACCOMPANY PLANS DATED 1-4-16

A

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

B

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

C

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

D

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

E

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

F

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

G

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

H

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

I

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

L

L LENGTH

M

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

N

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

O

O/C ON CENTER
 OD OUTSIDE DIAMETER
 OL OVERLAP

P

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

Q

Q QUARTER CIRCLE
 QCV QUICK COUPLING VALVE

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

R

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

S

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

T

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

U

UG UNDERGROUND

W

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE AND EROSION CONTROL ABBREVIATIONS
 NO SCALE

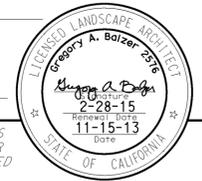
RSP H1 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H1 DATED MAY 20, 2011 - PAGE 218 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H1

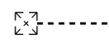
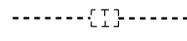
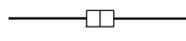
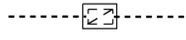
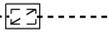
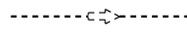
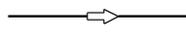
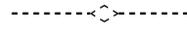
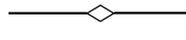
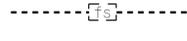
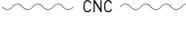
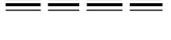
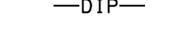
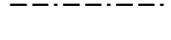
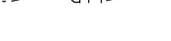
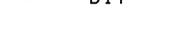
2010 REVISED STANDARD PLAN RSP H1

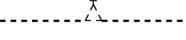
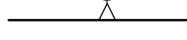
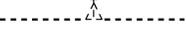
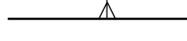
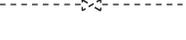
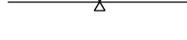
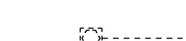
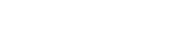
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	72	93

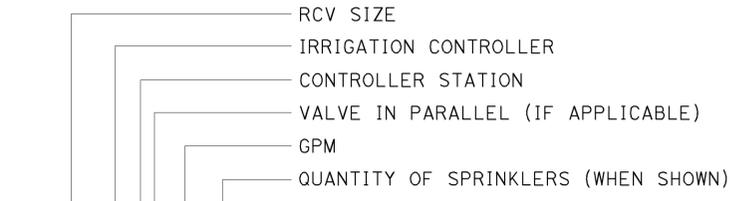

 LICENSED LANDSCAPE ARCHITECT
 November 15, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TO ACCOMPANY PLANS DATED 1-4-16

EXISTING	NEW	ITEM DESCRIPTION
		WATER METER (WM)
		BACKFLOW PREVENTER ASSEMBLY (BPA)
		BACKFLOW PREVENTER ENCLOSURE (BPE)
		BOOSTER PUMP (BP)
		TRUCK LOADING STANDPIPE (TLS)
		FLOW SENSOR (FS)
		MASTER IRRIGATION CONTROLLER (MIC)
		AUXILIARY IRRIGATION CONTROLLER (AIC)
		IRRIGATION CONTROLLER (IC) IRRIGATION CONTROLLER (IC) (BATTERY) IRRIGATION CONTROLLER (IC) (SOLAR) IRRIGATION CONTROLLER (IC) (TWO WIRE) IRRIGATION CONTROLLER(S) IN CONTROLLER ENCLOSURE CABINET (ICC)
		ARMOR-CLAD CONDUCTORS (ACC)
		CONTROL AND NEUTRAL CONDUCTORS (CNC)
		IRRIGATION CONDUIT
		EXTEND IRRIGATION CONDUIT
		DUCTILE IRON PIPE (SUPPLY LINE) (MAIN) (DIP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (MAIN) (GSP)
		GALVANIZED STEEL PIPE (SUPPLY LINE) (LATERAL) (GSP)
		PLASTIC PIPE (SUPPLY LINE) (MAIN)
		PLASTIC PIPE (SUPPLY LINE) (LATERAL)
		COPPER PIPE (SUPPLY LINE)
		DRIP IRRIGATION TUBING
		REMOTE CONTROL VALVE (RCV) REMOTE CONTROL VALVE (MASTER) (RCVM) REMOTE CONTROL VALVE (MASTER) W/FLOW METER (RCVMF)
		REMOTE CONTROL VALVE W/PRESSURE REGULATOR (RCVP)
		EXISTING MANUAL CONTROL VALVE (MCV)
		DRIP VALVE ASSEMBLY (DVA)
		WYE STRAINER ASSEMBLY (WSA)

EXISTING	NEW	ITEM DESCRIPTION
		GATE VALVE (GV)
		BALL VALVE (BV)
		QUICK COUPLING VALVE (QCV)
		CAM COUPLER ASSEMBLY (CCA)
		GARDEN VALVE ASSEMBLY (GARVA)
		PRESSURE REGULATING VALVE (PRV)
		PRESSURE RELIEF VALVE (PRLV)
		FLOW CONTROL VALVE (FCV)
		COMBINATION AIR RELEASE VALVE (CARV)
		CHECK VALVE (CV)
		FLUSH VALVE (FV)
		EXISTING NOZZLE LINE W/TURNING UNION
		EXISTING IRRIGATION SYSTEM
		EXISTING IRRIGATION SYSTEM TO BE REMOVED
		CHAIN LINK GATE
		QUICK COUPLING VALVE W/SPRINKLER PROTECTOR
		SPRINKLER W/SPRINKLER PROTECTOR
		CONNECT TO EXISTING SYSTEM
		CAP
		CAP EXISTING
		FIBER ROLL
		COMPOST SOCK



VALVE CODE

* VALVE CODES FOR EXISTING VALVES ARE SHOWN IN A DASHED ENCLOSURE.

RSP H2 DATED NOVEMBER 15, 2013 SUPERSEDES RSP H2 DATED JULY 19, 2013 AND STANDARD PLAN H2 DATED MAY 20, 2011 - PAGE 219 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H2

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**LANDSCAPE AND EROSION
CONTROL SYMBOLS**
NO SCALE

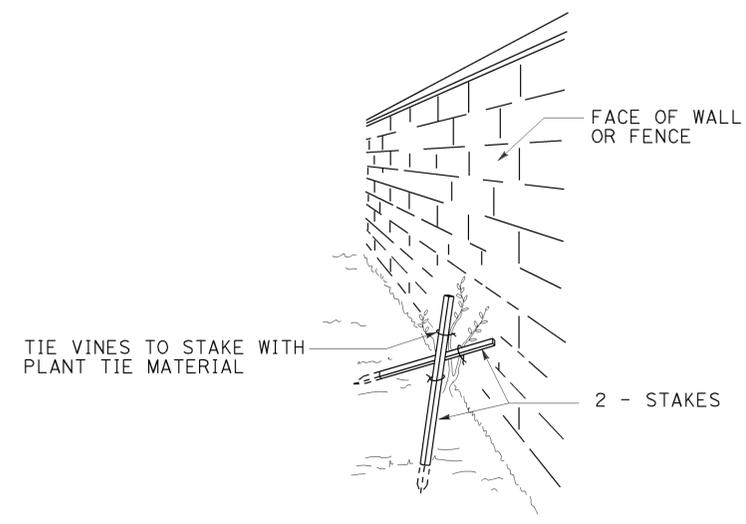
2010 REVISED STANDARD PLAN RSP H2

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	73	93

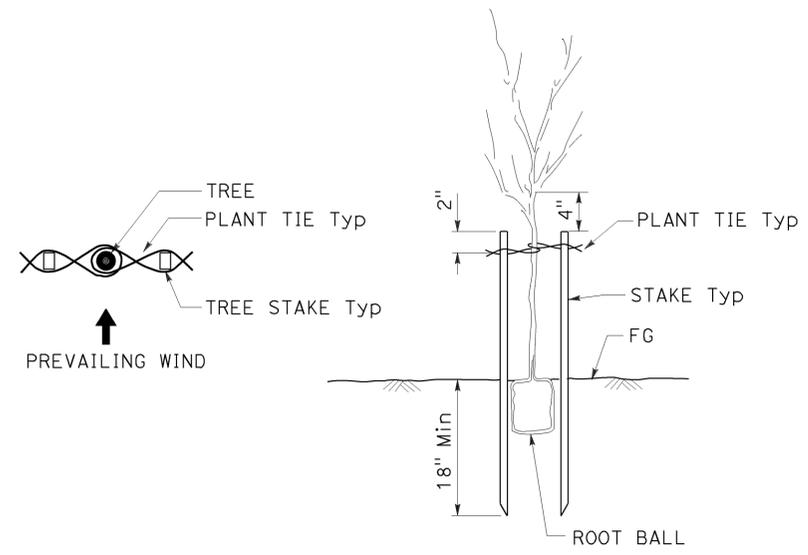
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



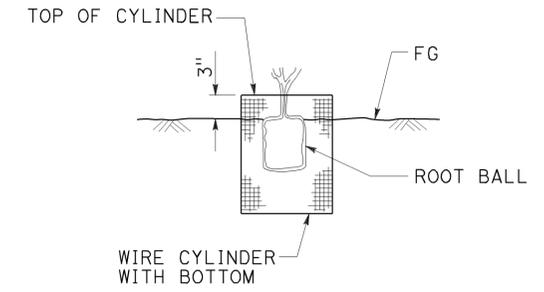
TO ACCOMPANY PLANS DATED 1-4-16



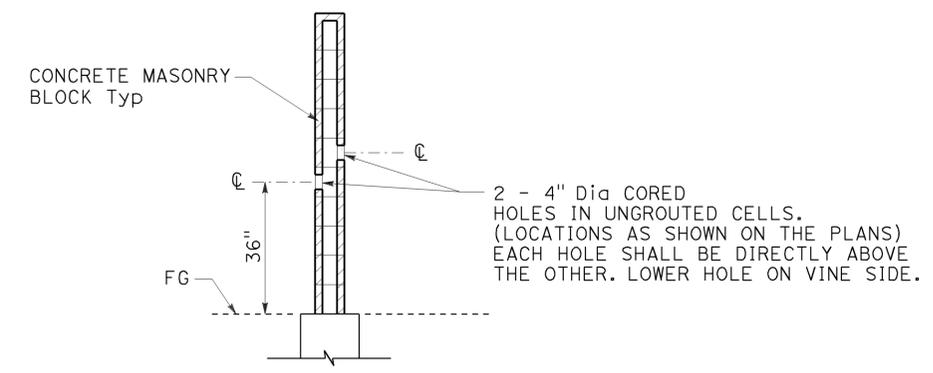
PERSPECTIVE VINE STAKING



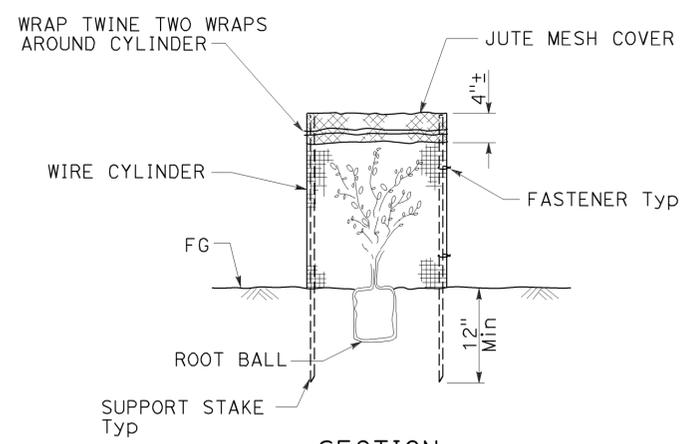
TREE STAKING



SECTION ROOT PROTECTOR



SECTION CORE HOLE (VINE)



SECTION FOLIAGE PROTECTOR

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
 NO SCALE

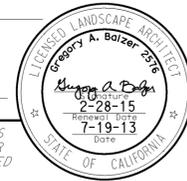
RSP H4 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H4 DATED MAY 20, 2011 - PAGE 221 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H4

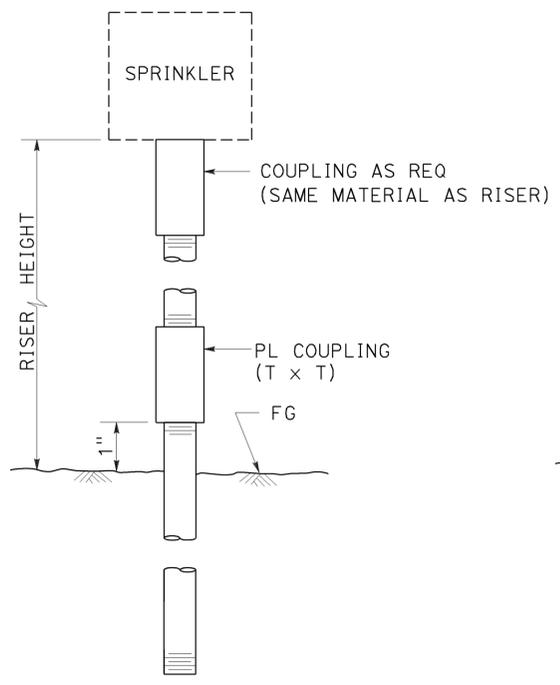
2010 REVISED STANDARD PLAN RSP H4

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	74	93

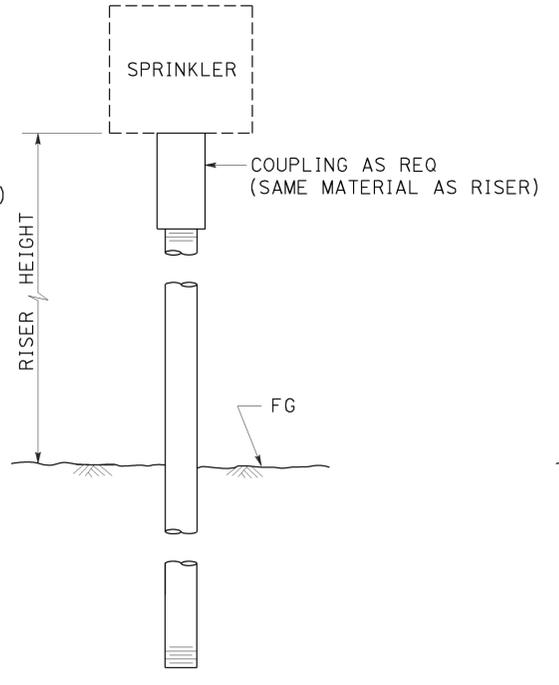
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



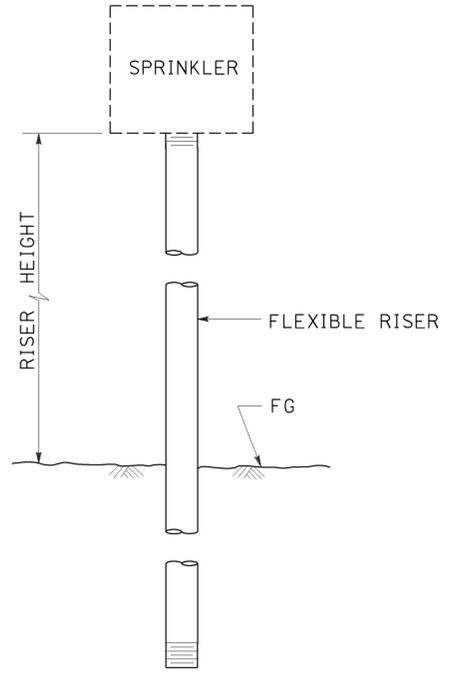
TO ACCOMPANY PLANS DATED 1-4-16



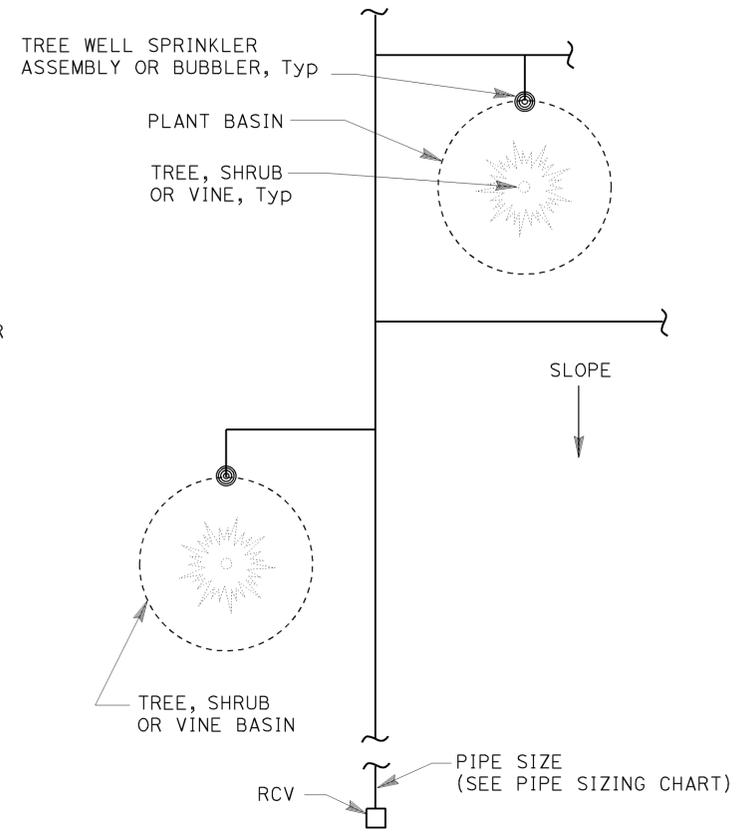
ELEVATION
RISER SPRINKLER ASSEMBLY TYPE I



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE II

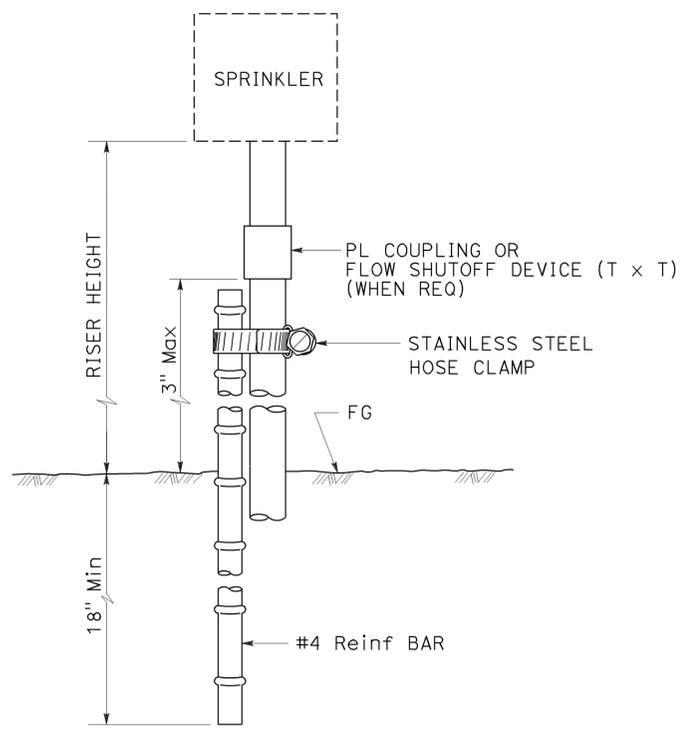


ELEVATION
RISER SPRINKLER ASSEMBLY TYPE III

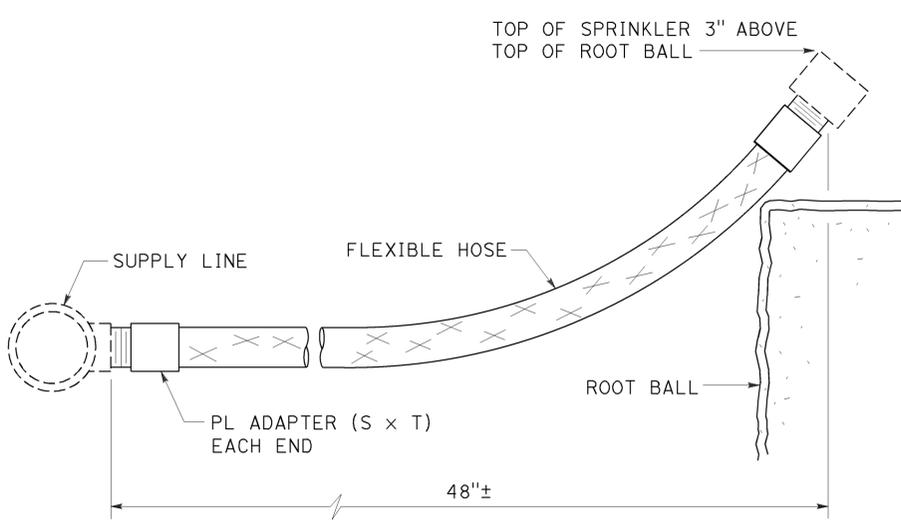


PLAN

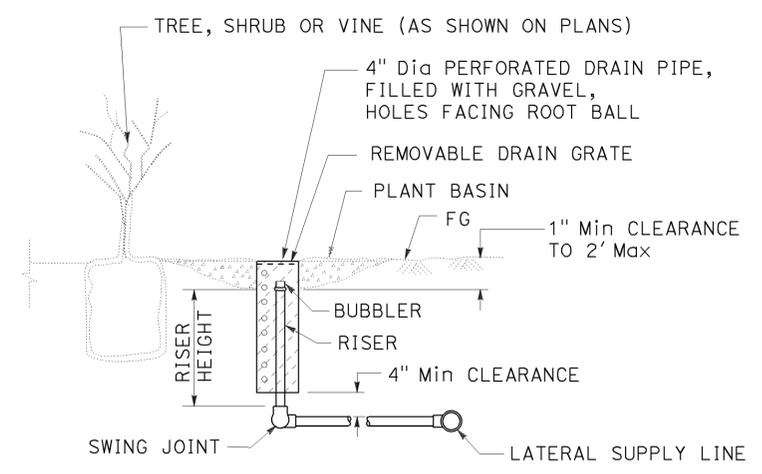
- NOTES:**
1. Install tree well sprinkler assembly on up-hill side of plant when on slope.
 2. Install bubbler within basin.



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE IV



ELEVATION
RISER SPRINKLER ASSEMBLY TYPE V



SECTION
TREE WELL SPRINKLER ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
NO SCALE

RSP H5 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H5 DATED MAY 20, 2011 - PAGE 222 OF THE STANDARD PLANS BOOK DATED 2010.

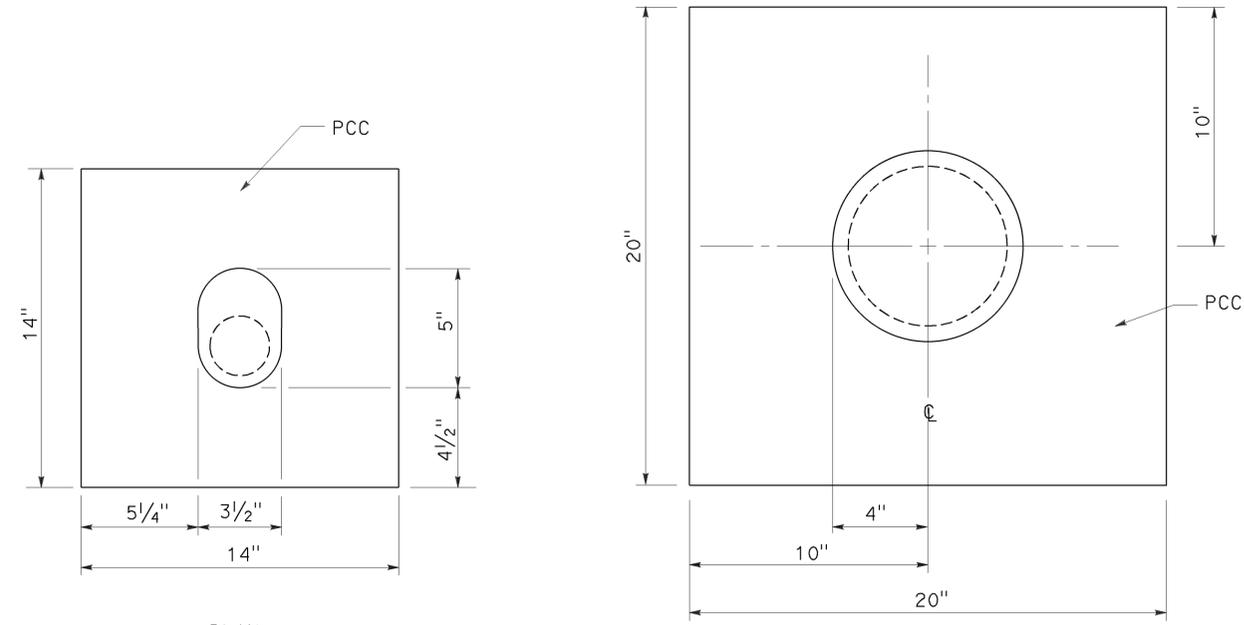
REVISED STANDARD PLAN RSP H5

2010 REVISED STANDARD PLAN RSP H5

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	75	93

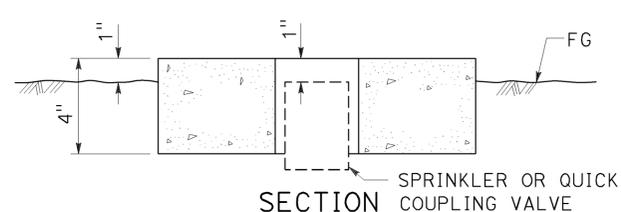
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

TO ACCOMPANY PLANS DATED 1-4-16

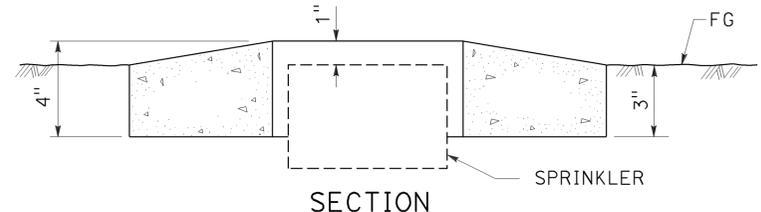


PLAN

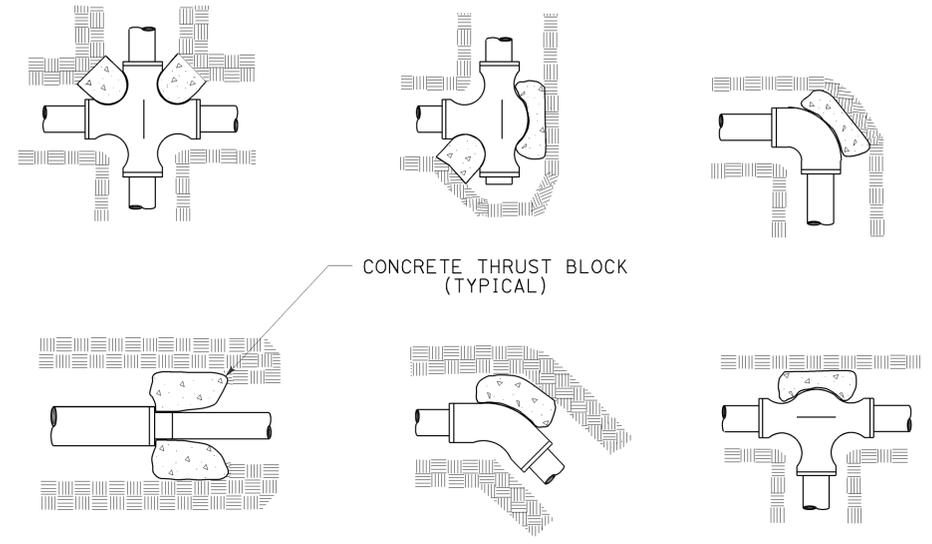
PLAN



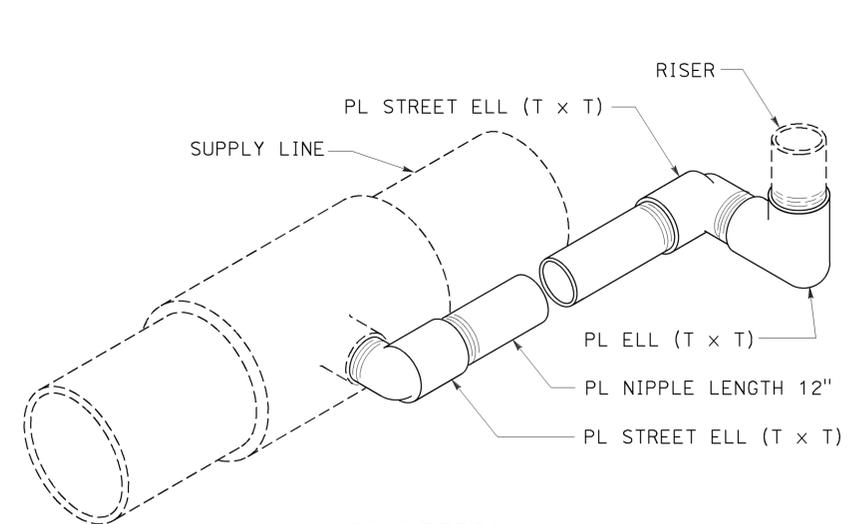
SECTION
SPRINKLER PROTECTOR TYPE I



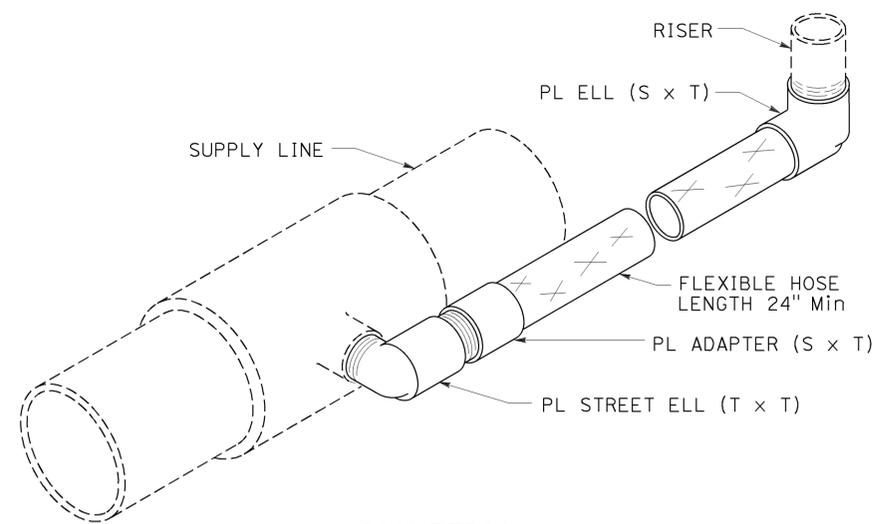
SECTION
SPRINKLER PROTECTOR TYPE II



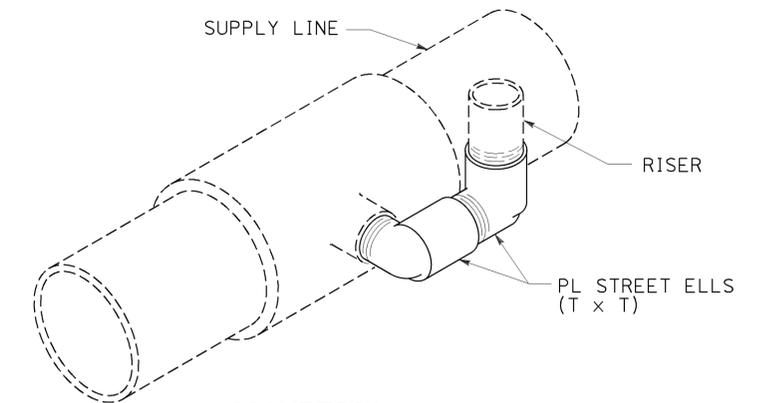
TYPICAL THRUST BLOCKS



ISOMETRIC
POP-UP SPRINKLER ASSEMBLY TYPE I



ISOMETRIC
POP-UP SPRINKLER ASSEMBLY TYPE II



ISOMETRIC
POP-UP SPRINKLER ASSEMBLY TYPE III

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS

NO SCALE

RSP H6 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H6
DATED MAY 20, 2011 - PAGE 223 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H6

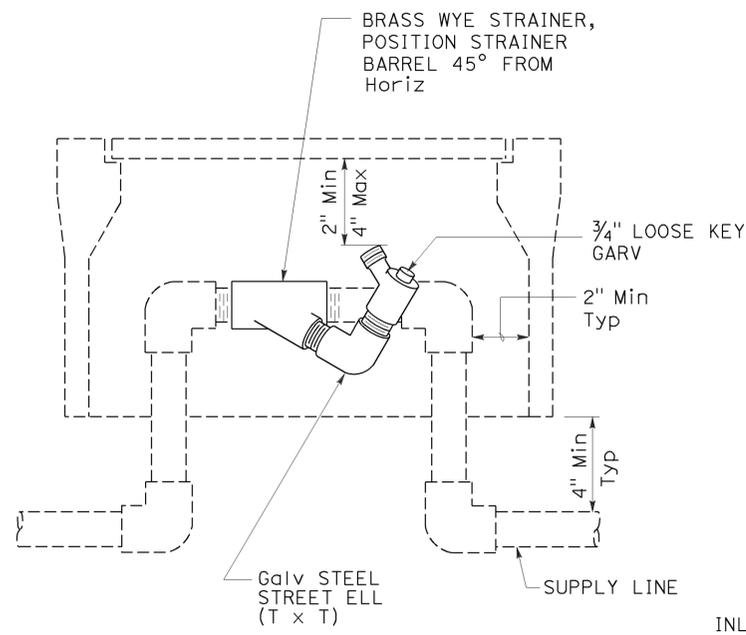
2010 REVISED STANDARD PLAN RSP H6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	76	93

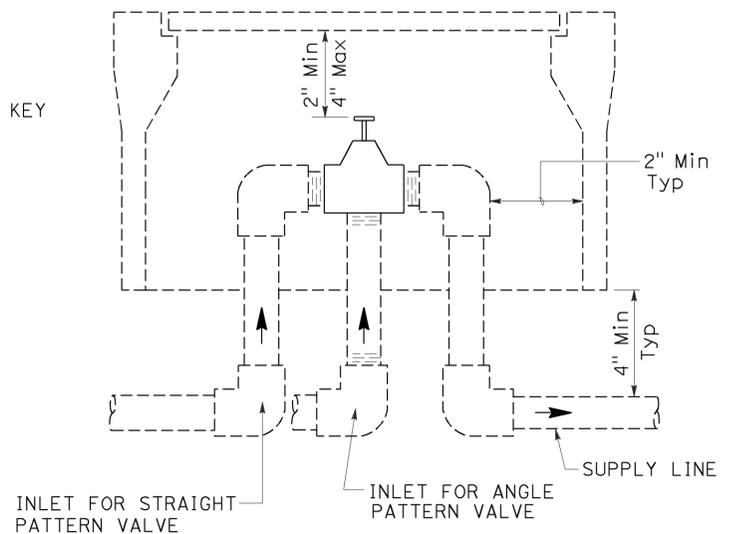
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



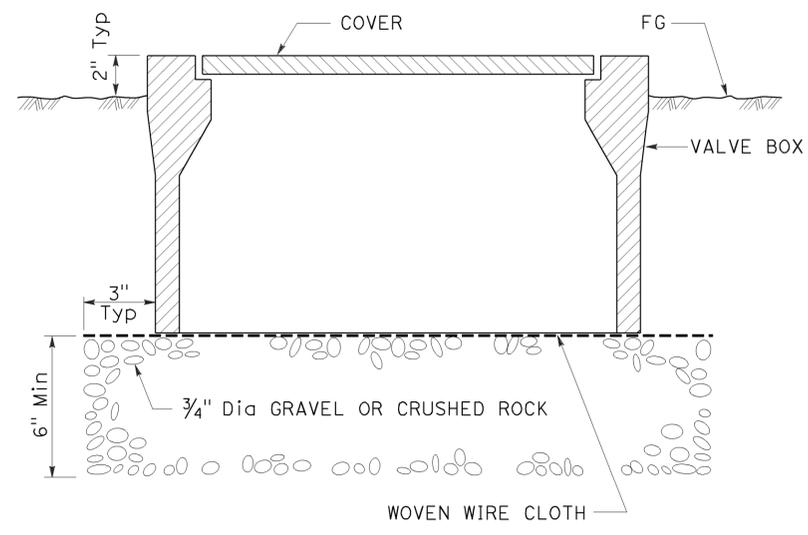
TO ACCOMPANY PLANS DATED 1-4-16



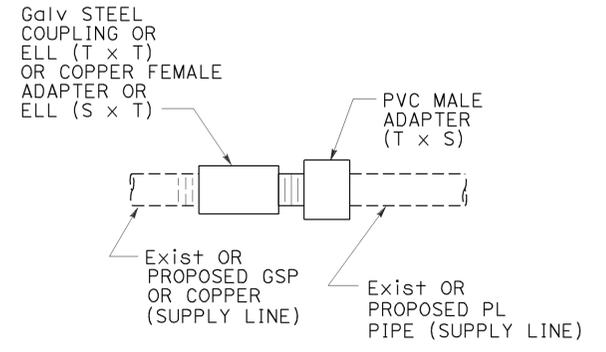
ELEVATION
WYE STRAINER ASSEMBLY



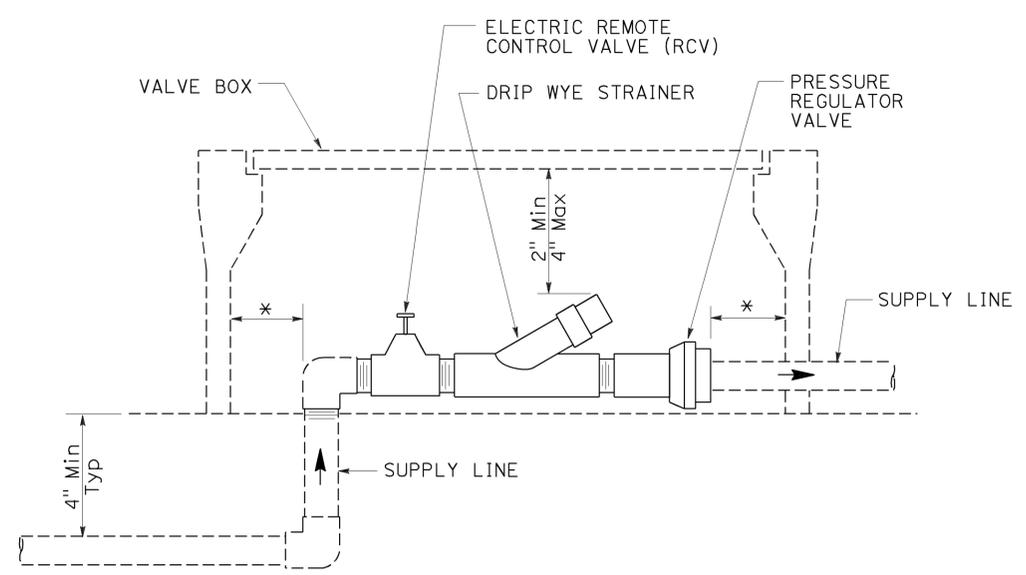
ELEVATION
VALVE



SECTION
VALVE BOX



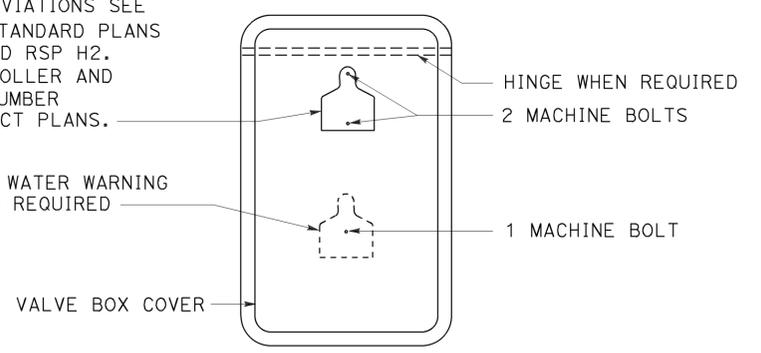
GALVANIZED OR COPPER PIPE CONNECTION TO PLASTIC PIPE



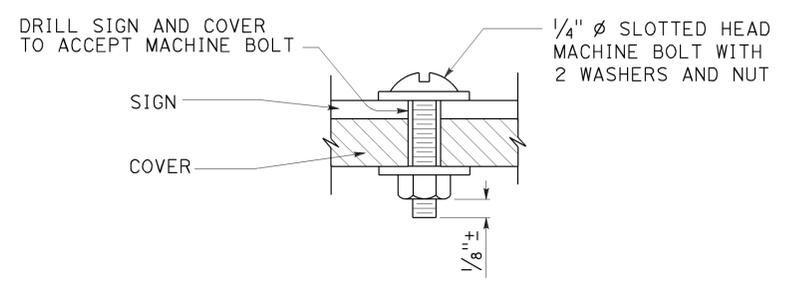
ELEVATION
DRIP VALVE ASSEMBLY

IDENTIFICATION LABEL:
FOR ABBREVIATIONS SEE
REVISED STANDARD PLANS
RSP H1 AND RSP H2.
FOR CONTROLLER AND
STATION NUMBER
SEE PROJECT PLANS.

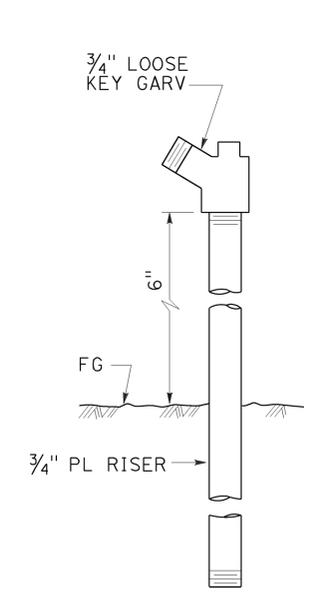
RECYCLED WATER WARNING
SIGN WHEN REQUIRED



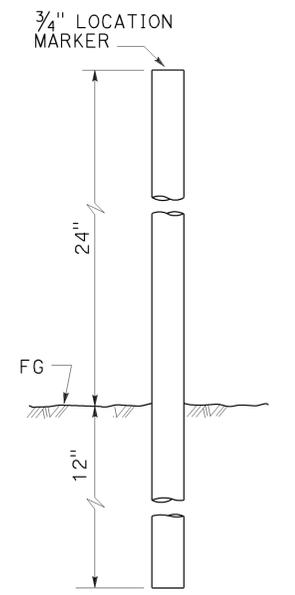
PLAN



SECTION
VALVE BOX IDENTIFICATION



ELEVATION
GARDEN VALVE ASSEMBLY



ELEVATION
LOCATION MARKER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

LANDSCAPE DETAILS

NO SCALE

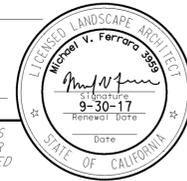
RSP H7 DATED JULY 19, 2013 SUPERSEDES STANDARD PLAN H7
DATED MAY 20, 2011 - PAGE 224 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H7

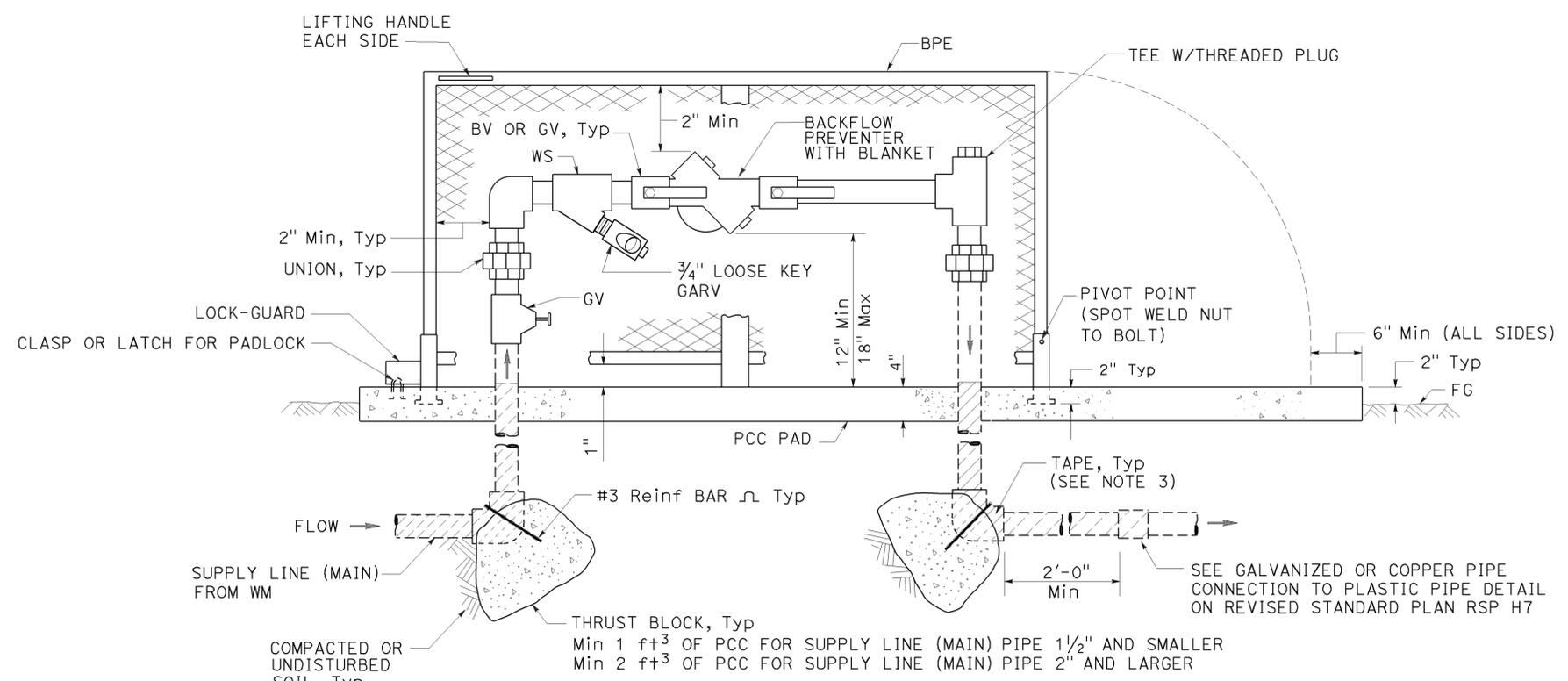
2010 REVISED STANDARD PLAN RSP H7

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	77	93

October 30, 2015
 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.



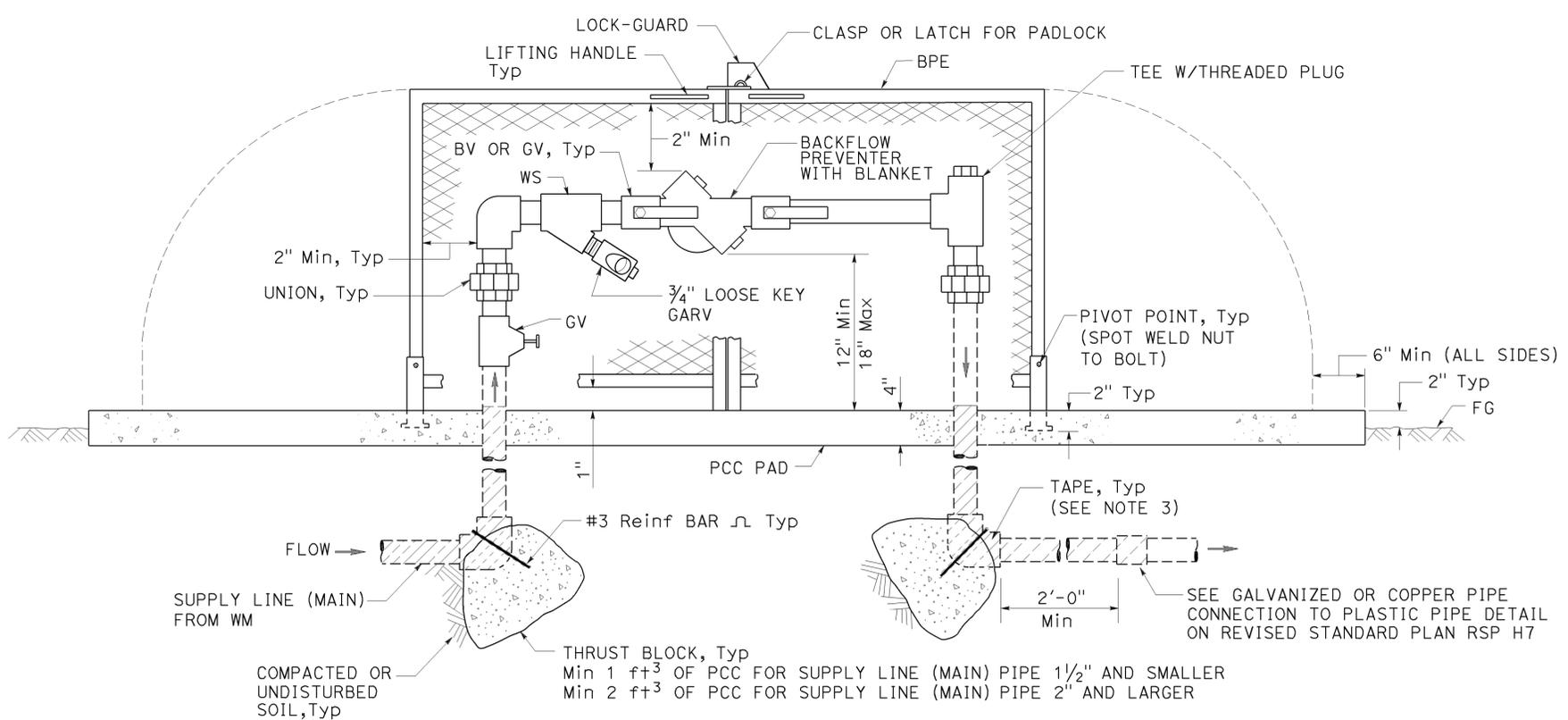
TO ACCOMPANY PLANS DATED 1-4-16



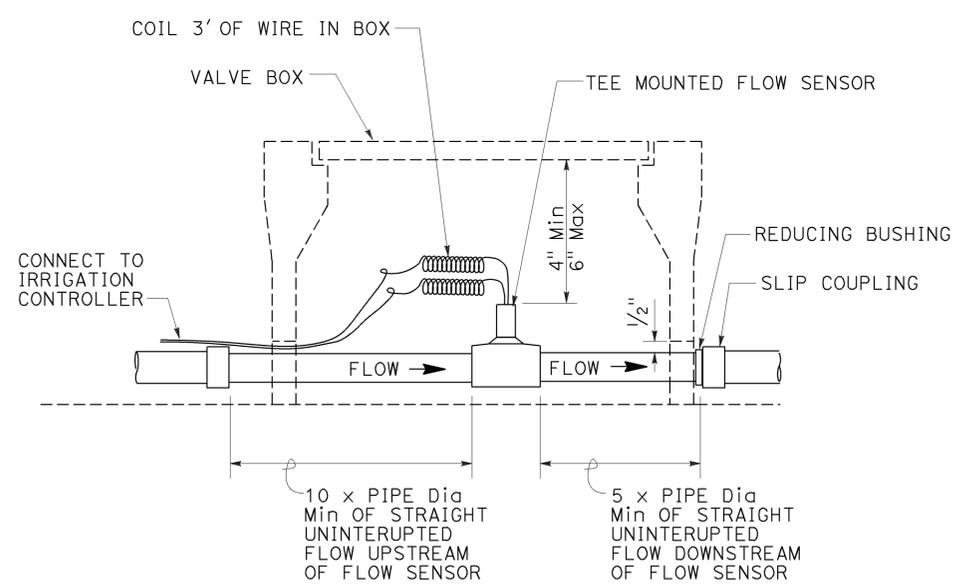
ELEVATION
BACKFLOW PREVENTER ASSEMBLY
 IN ONE PIECE ENCLOSURE

NOTES:

1. Wye strainer and fittings must be the same size as the backflow preventer shown on the plans.
2. Backflow preventer assembly manifold pipe must be the same pipe as the supply line (main) pipe to be installed from the water meter to the backflow preventer assembly.
3. All metal in contact with soil and Portland Cement Concrete must be wrapped with 2" wide plastic backed adhesive polyethylene tape 20 mil thick with 1/2" overlap.



ELEVATION
BACKFLOW PREVENTER ASSEMBLY
 IN TWO PIECE ENCLOSURE



SECTION
FLOW SENSOR

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
 NO SCALE

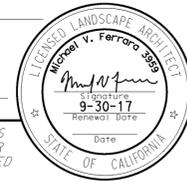
RSP H8 DATED OCTOBER 30, 2015 SUPERSEDES RSP H8 DATED JULY 19, 2013 AND STANDARD PLAN H8 DATED MAY 20, 2011 - PAGE 225 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H8

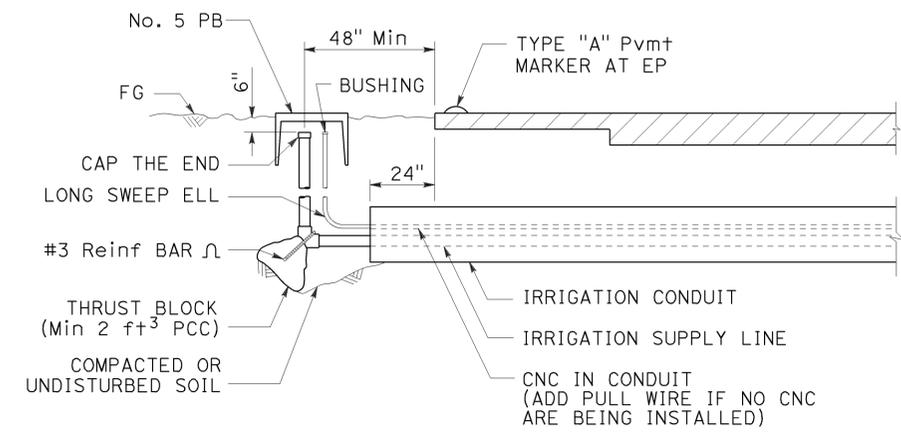
2010 REVISED STANDARD PLAN RSP H8

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	78	93

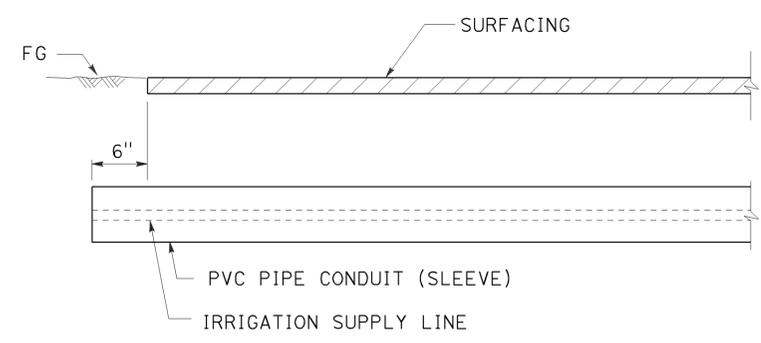
Signature: *Michael V. Ferraro*
 LICENSED LANDSCAPE ARCHITECT
 April 15, 2016
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



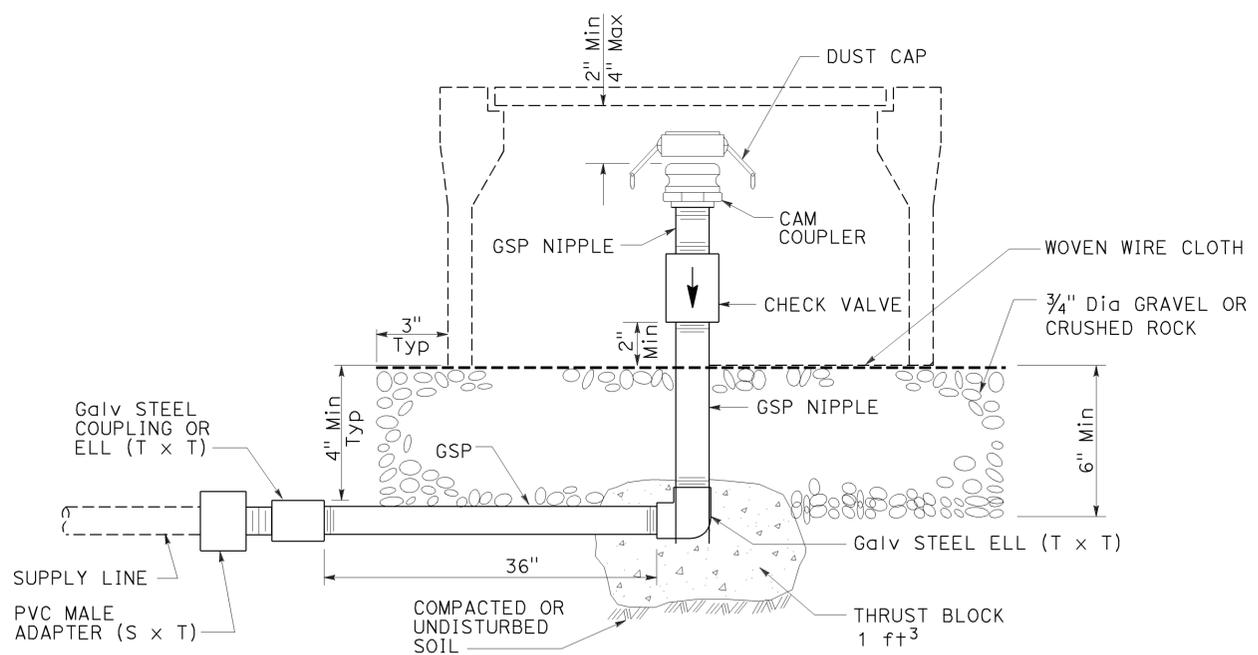
TO ACCOMPANY PLANS DATED 1-4-16



SECTION
IRRIGATION CONDUIT
UNDER TRAVELED WAY



SECTION
PVC PIPE CONDUIT (SLEEVE)
UNDER SIDEWALKS, DRIVEWAYS AND PATHS



ELEVATION
CAM COUPLER ASSEMBLY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
NO SCALE

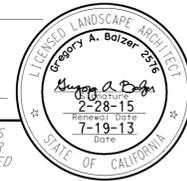
RSP H9 DATED APRIL 15, 2016 SUPERSEDES RSP H9 DATED JULY 19, 2013 AND STANDARD PLAN H9 DATED MAY 20, 2011 - PAGE 226 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9

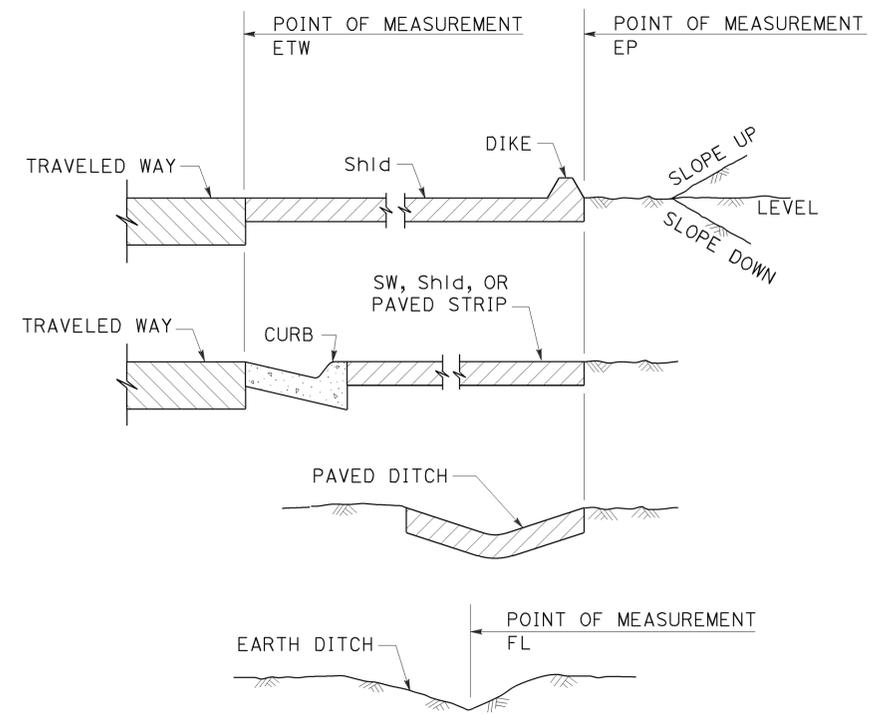
2010 REVISED STANDARD PLAN RSP H9

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	79	93

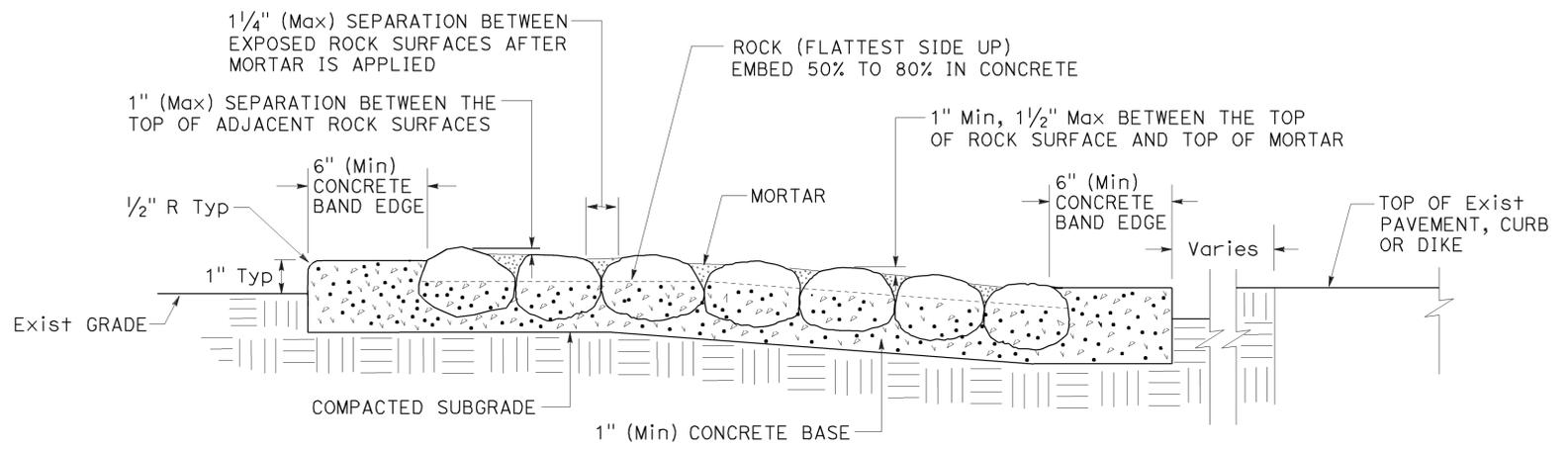
Gregory A. Balzer
 LICENSED LANDSCAPE ARCHITECT
 July 19, 2013
 PLANS APPROVAL DATE
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



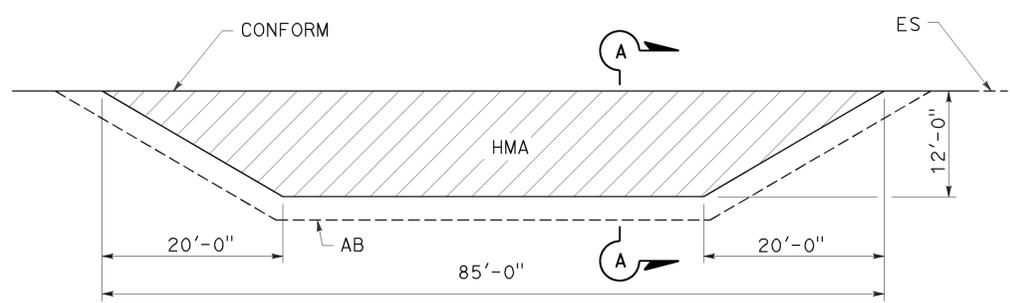
TO ACCOMPANY PLANS DATED 1-4-16



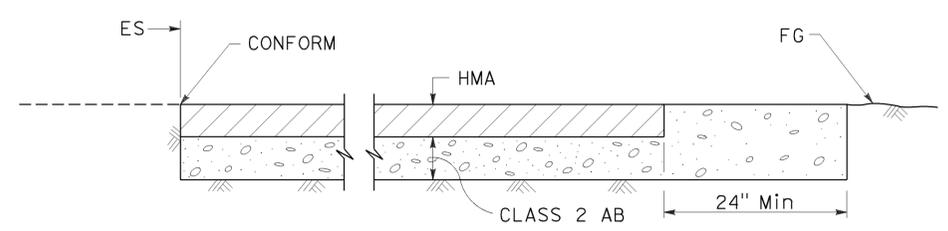
**SECTION
POINTS OF MEASUREMENT**



**SECTION
ROCK BLANKET**



PLAN



**SECTION A-A
MAINTENANCE VEHICLE PULLOUT**

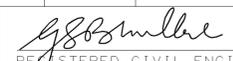
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
LANDSCAPE DETAILS
NO SCALE

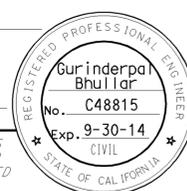
RSP H9A DATED JULY 19, 2013 SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP H9A

2010 REVISED STANDARD PLAN RSP H9A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	80	93


 REGISTERED CIVIL ENGINEER
 July 19, 2013
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 1-4-16

TABLE 1

TAPER LENGTH CRITERIA AND CHANNELIZING DEVICE SPACING							
SPEED (S)	MINIMUM TAPER LENGTH * FOR WIDTH OF OFFSET 12 FEET (W)				MAXIMUM CHANNELIZING DEVICE SPACING		
	TANGENT 2L	MERGING L	SHIFTING L/2	SHOULDER L/3	X	Y	Z **
					TAPER	TANGENT	CONFLICT
mph	ft	ft	ft	ft	ft	ft	ft
20	160	80	40	27	20	40	10
25	250	125	63	42	25	50	12
30	360	180	90	60	30	60	15
35	490	245	123	82	35	70	17
40	640	320	160	107	40	80	20
45	1080	540	270	180	45	90	22
50	1200	600	300	200	50	100	25
55	1320	660	330	220	55	110	27
60	1440	720	360	240	60	120	30
65	1560	780	390	260	65	130	32
70	1680	840	420	280	70	140	35

* - For other offsets, use the following merging taper length formula for L:
 For speed of 40 mph or less, $L = WS^2/60$
 For speed of 45 mph or more, $L = WS$

Where: L = Taper length in feet
 W = Width of offset in feet
 S = Posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

** - Use for taper and tangent sections where there are no pavement markings or where there is a conflict between existing pavement markings and channelizers (CA).

TABLE 2

LONGITUDINAL BUFFER SPACE AND FLAGGER STATION SPACING				
SPEED *	Min D **	DOWNGRADE Min D ***		
		-3%	-6%	-9%
		ft	ft	ft
mph	ft	ft	ft	ft
20	115	116	120	126
25	155	158	165	173
30	200	205	215	227
35	250	257	271	287
40	305	315	333	354
45	360	378	400	427
50	425	446	474	507
55	495	520	553	593
60	570	598	638	686
65	645	682	728	785
70	730	771	825	891

* - Speed is posted speed limit, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph
 ** - Longitudinal buffer space or flagger station spacing
 *** - Use on sustained downgrade steeper than -3 percent and longer than 1 mile.

TABLE 3

ADVANCE WARNING SIGN SPACING			
ROAD TYPE	DISTANCE BETWEEN SIGNS *		
	A	B	C
	ft	ft	ft
URBAN - 25 mph OR LESS	100	100	100
URBAN - MORE THAN 25 mph TO 40 mph	250	250	250
URBAN - MORE THAN 40 mph	350	350	350
RURAL	500	500	500
EXPRESSWAY / FREEWAY	1000	1500	2640

* - The distances are approximate, are intended for guidance purposes only, and should be applied with engineering judgment. These distances should be adjusted by the Engineer for field conditions, if necessary, by increasing or decreasing the recommended distances.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM TABLES FOR LANE AND RAMP CLOSURES

NO SCALE

RSP T9 DATED JULY 19, 2013 SUPERSEDES RSP T9 DATED APRIL 19, 2013 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP T9

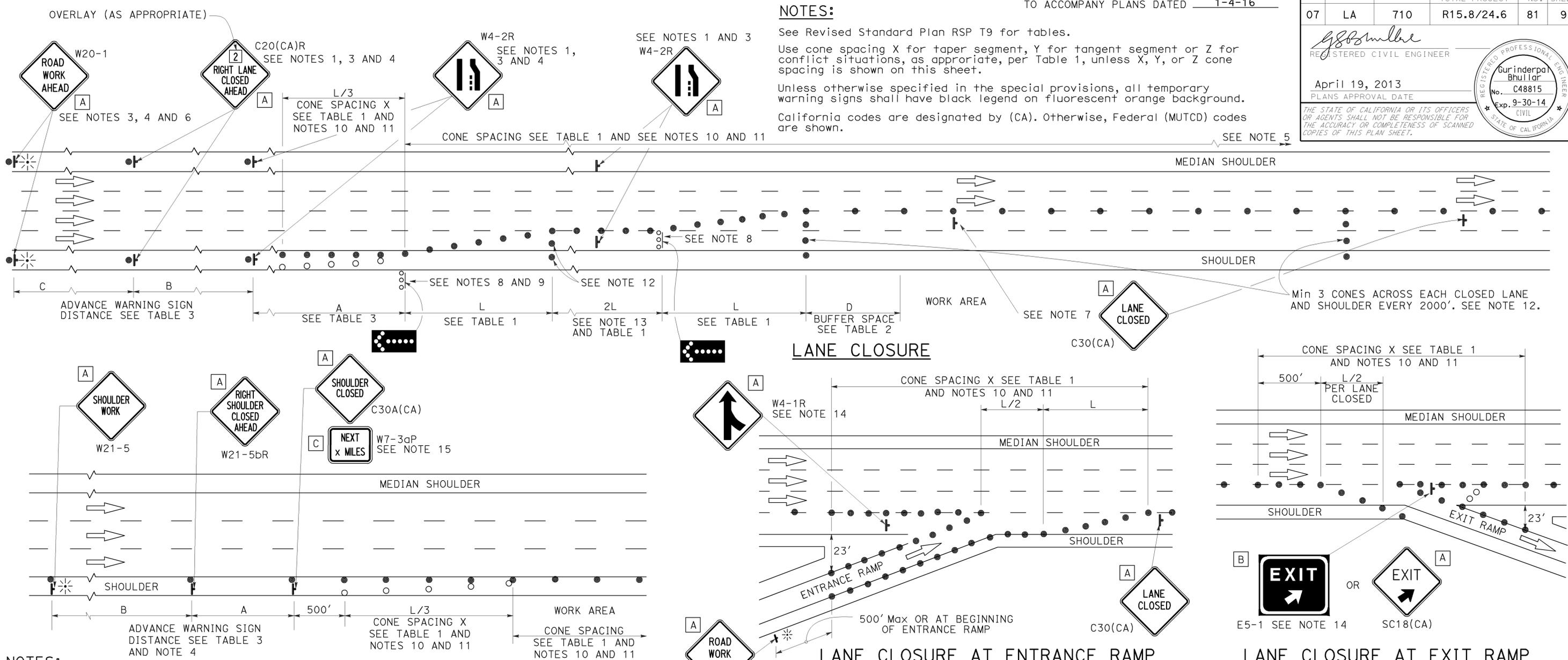
2010 REVISED STANDARD PLAN RSP T9

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	81	93

REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

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

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



- NOTES:**
1. Median lane closures shall conform to the details as shown except that C20(CA)L and W4-2L signs shall be used.
 2. At least one person shall be assigned to provide full time maintenance of traffic control devices for lane closures.
 3. Duplicate sign installations are not required:
 - a) On opposite shoulder if at least one-half of the available lanes remain open to traffic.
 - b) In the median if the width of the median shoulder is less than 8' and the outside lanes are to be closed.
 4. Each advance warning sign on each side of the roadway shall be equipped with at least two flags for daytime closure. Each flag shall be at least 16" x 16" in size and shall be orange or fluorescent red-orange in color. Flashing beacons shall be placed at the locations indicated for lane closure during hours of darkness.
 5. A G20-2 "END ROAD WORK" sign, with minimum size of 48" x 24" as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- SHOULDER CLOSURE**
6. If the W20-1 sign would follow within 2000' of a stationary W20-1 or G20-1 "ROAD WORK NEXT x MILES", use a C20(CA)L and W4-2L signs shall be used.
 7. Place a C30(CA) sign every 2000' throughout length of lane closure.
 8. One flashing arrow sign for each lane closed. The flashing arrow signs shall be Type I.
 9. A minimum 1500' of sight distance shall be provided where possible for vehicles approaching the first flashing arrow sign. Lane closures shall not begin at top of crest vertical curve or on a horizontal curve.
 10. All cones used for lane closures during the hours of darkness shall be fitted with retroreflective bands (or sleeves) as specified in the specifications.
 11. Portable delineators, placed at one-half the spacing indicated for traffic cones may be used instead of cones for daytime closures only.

- LANE CLOSURE AT ENTRANCE RAMP**
12. Unless otherwise specified in the special provisions, a minimum of 3 cones shall be placed transversely across each closed lane and shoulder at each location where a taper across a traffic lane ends and every 2000' as shown on the "Lane Closure" detail. Two Type II barricades may be used instead of the 3 cones. The transverse alignment of the cones or barricades on the closed shoulder may be shifted from the transverse alignment to provide access to the work.
 13. Unless otherwise specified in the special provisions, the 2L tangent shown along lane lines shall be used between the L tapers required for each closed traffic lane.
 14. Unless otherwise specified in the special provisions, the E5-1 or SC18(CA) and W4-1 signs shall be used as shown.
 15. A W7-3aP "NEXT x MILES" plaque must be used if the shoulder closure extends beyond the distance that can be perceived by road users.

LEGEND

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

SIGN PANEL SIZE (Min)

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

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

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

REVISED STANDARD PLAN RSP T10

2010 REVISED STANDARD PLAN RSP T10

TYPICAL RAMP CLOSURES

SIGN PANEL SIZE (Min)

- A 48" x 48"
- B 48" x 30"
- C 36" x 36"
- D 48" x 36"

LEGEND

- TRAFFIC CONE
- † TEMPORARY TRAFFIC CONTROL SIGN
- ‡ BARRICADES
- ⚡ PORTABLE FLASHING BEACON

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	82	93

Gurinderpal Bhullar
 REGISTERED CIVIL ENGINEER
 April 19, 2013
 PLANS APPROVAL DATE

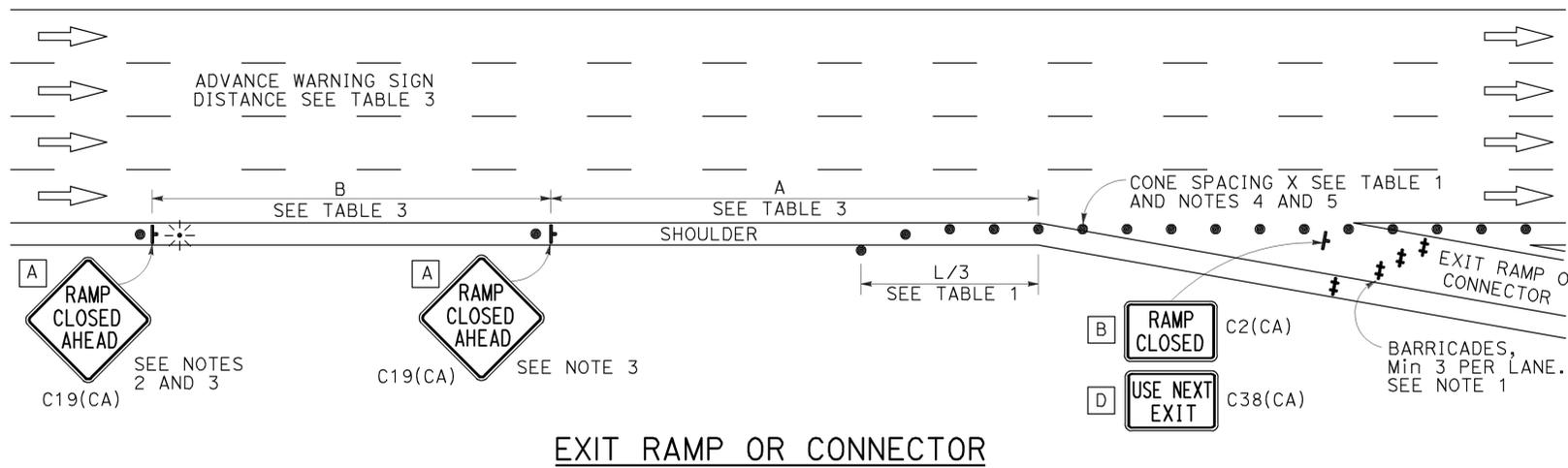
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

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

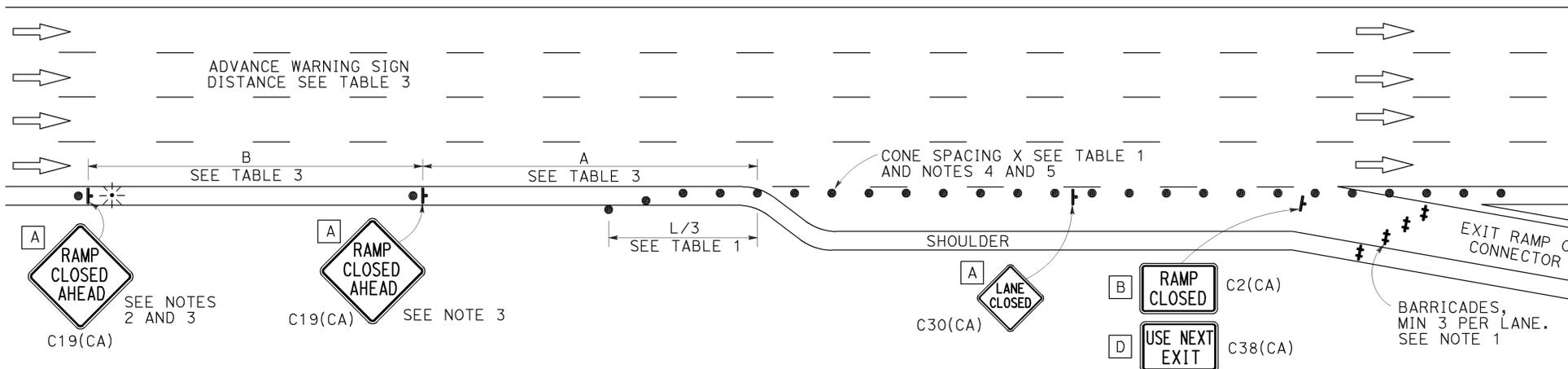
TO ACCOMPANY PLANS DATED 1-4-16

NOTES:

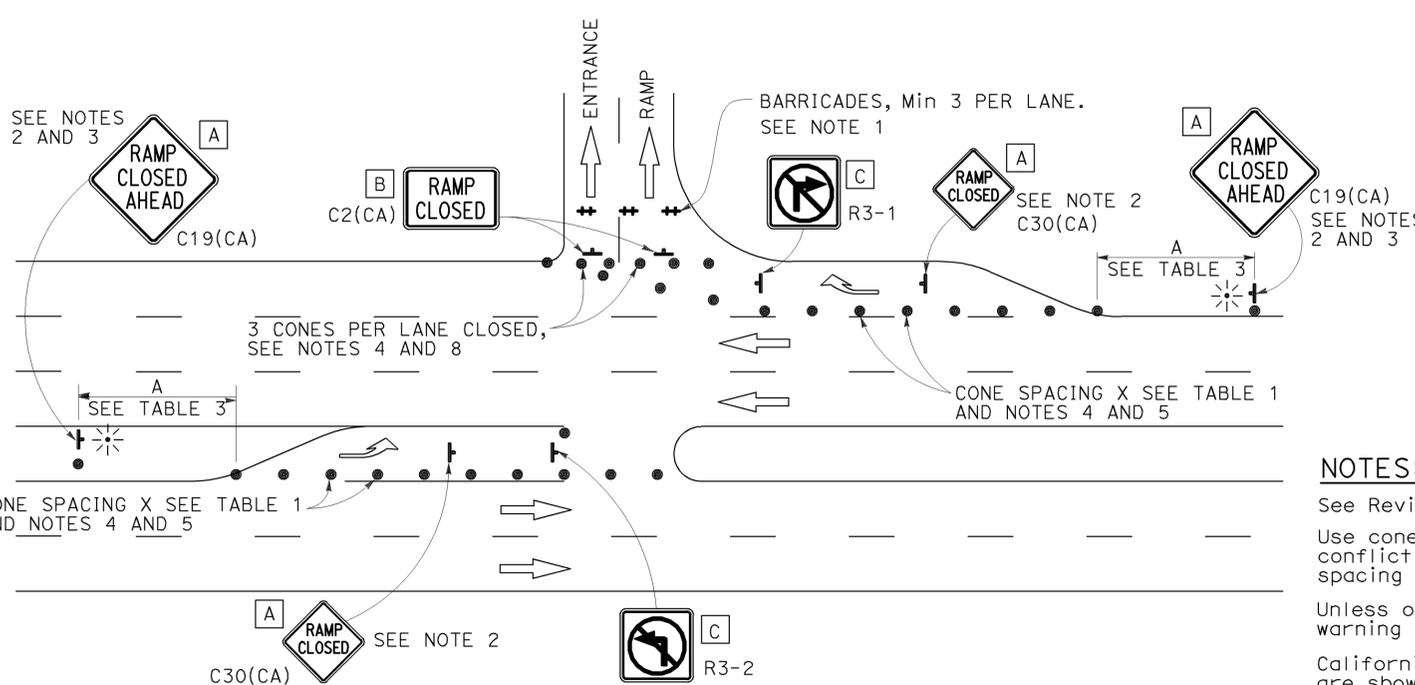
- Barricades shall be Type I, II, or III for closures lasting one week or less and Type III for closures lasting longer than one week.
- In addition to placing the C19(CA) "RAMP CLOSED AHEAD" and C30(CA) "RAMP CLOSED" signs, black on orange overlay plates with the word "CLOSED" may be mounted, as directed 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. A flashing beacon shall be placed on top of the first C19(CA) sign during hours of darkness.
- 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" signs shall be covered during ramp closures.
- A minimum of 3 cones shall be placed transversely across each closed lane and shoulder.



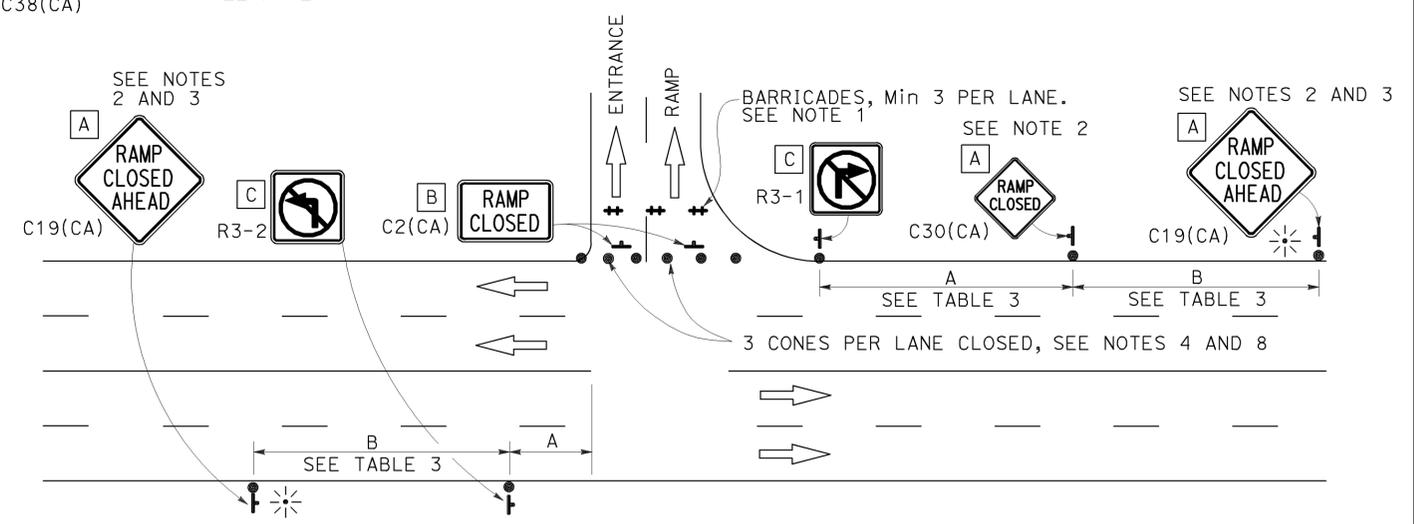
EXIT RAMP OR CONNECTOR



EXIT RAMP OR CONNECTOR WITH ADDITIONAL LANE



ENTRANCE RAMP WITH TURNING POCKETS



ENTRANCE RAMP WITHOUT TURNING POCKETS

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 appropriate, 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.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL SYSTEM
 FOR RAMP CLOSURE**
 NO SCALE

RSP T14 DATED APRIL 19, 2013 SUPERSEDES STANDARD PLAN T14
 DATED MAY 20, 2011 - PAGE 242 OF THE STANDARD PLANS BOOK DATED 2010.
REVISED STANDARD PLAN RSP T14

2010 REVISED STANDARD PLAN RSP T14

LEGEND:

AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS
BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN
BP	PEDESTRIAN BARRICADE, TYPE AS INDICATED ON PLAN
CB	INSTALL CONDUIT INTO EXISTING PULL BOX
CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED
CF	CONDUIT TO REMAIN FOR FUTURE USE. REMOVE CONDUCTORS. INSTALL PULL TAPE
DH	DETECTOR HANDHOLE
FA	FOUNDATION TO BE ABANDONED
IS	INSTALL SIGN ON SIGNAL MAST ARM
NS	NO SLIP BASE ON STANDARD
PEC	PHOTOELECTRIC CONTROL
PEU	PHOTOELECTRIC UNIT
RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR
RE	REMOVE ELECTROLIER, FUSES AND BALLAST. TAPE ENDS OF CONDUCTORS
RL	RELOCATE EQUIPMENT
RR	REMOVE AND REUSE EQUIPMENT
RS	REMOVE AND SALVAGE EQUIPMENT
SC	SPLICE NEW TO EXISTING CONDUCTORS
SD	SERVICE DISCONNECT
TSP	TELEPHONE SERVICE POINT

ABBREVIATIONS

AC+	UNDERGROUNDED CONDUCTOR	MAT	MAST ARM MOUNTING TOP ATTACHMENT
APS	ACCESSIBLE PEDESTRIAN SIGNAL	MAS	MAST ARM MOUNTING SIDE ATTACHMENT
Batt	BATTERY	MBPS	MANUAL BYPASS SWITCH
BBS	BATTERY BACKUP SYSTEM	M/M	MULTIPLE TO MULTIPLE TRANSFORMER
BC	BOLT CIRCLE	Mtg	MOUNTING
BIK	BLACK	MV	MERCURY VAPOR LIGHTING FIXTURE
BP	BYPASS	MVDS	MICROWAVE VEHICLE DETECTION SYSTEM
BPB	BICYCLE PUSH BUTTON	N	NEUTRAL (GROUNDED CONDUCTOR)
C	CONDUIT	NB	NEUTRAL BUS
CB	CIRCUIT BREAKER	NC	NORMALLY CLOSE
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
Ckt	CIRCUIT	P	CIRCUIT BREAKER'S POLE
CMS	CHANGEABLE MESSAGE SIGN	PB	PULL BOX
Ctid	CALTRANS IDENTIFICATION	PBA	PUSH BUTTON ASSEMBLY
Comm	COMMUNICATION	PEC	PHOTOELECTRIC CONTROL
Cntl	CONTROL	Ped	PEDESTRIAN
DF	DEPARTMENT-FURNISHED	PEU	PHOTOELECTRIC UNIT
DLC	LOOP DETECTOR LEAD-IN CABLE	PT	CONDUIT WITH PULL TAPE
EMS	EXTINGUISHABLE MESSAGE SIGN	PTR	POWER TRANSFER RELAY
EVUC	EMERGENCY VEHICLE UNIT CABLE	RE	RELOCATED EQUIPMENT
EVUD	EMERGENCY VEHICLE UNIT DETECTOR	RM	RAMP METERING
FB	FLASHING BEACON	RWIS	ROADSIDE WEATHER INFORMATION SYSTEM
FBCA	FLASHING BEACON CONTROL ASSEMBLY	SB	SLIP BASE
FBS	FLASHING BEACON WITH SLIP BASE	SIC	SIGNAL INTERCONNECT CABLE
FO	FIBER OPTIC	Sig	SIGNAL
G	EQUIPMENT GROUNDING CONDUCTOR	SMA	SIGNAL MAST ARM
GB	GROUND BUS	SNS	STREET NAME SIGN
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SP	SERVICE POINT
Grn	GREEN	TB	TERMINAL BOARD
HAR	HIGHWAY ADVISORY RADIO	TDC	TELEPHONE DEMARCATION CABINET
Hex	HEXAGONAL	Temp	TEMPERATURE
HPS	HIGH PRESSURE SODIUM	TMS	TRAFFIC MONITORING STATION
IISNS	INTERNALLY ILLUMINATED STREET NAME SIGN	TOS	TRAFFIC OPERATIONS SYSTEM
ISL	INDUCTION SIGN LIGHTING	UPS	UNINTERRUPTABLE POWER SUPPLY
LED	LIGHT EMITTING DIODE	UPSC	UNINTERRUPTABLE POWER SUPPLY CONTROLLER
LMA	LUMINAIRE MAST ARM	Veh	VEHICLE
LPS	LOW PRESSURE SODIUM	VIVDS	VIDEO IMAGE VEHICLE DETECTION SYSTEM
Ltg	LIGHTING	Wht	WHITE
Lum	LUMINAIRE	WIM	WEIGH-IN-MOTION
M	METERED	Xfmr	TRANSFORMER

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	83	93

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa
Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL

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 1-4-16

SOFFIT AND WALL-MOUNTED LUMINAIRES

- PENDANT SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- FLUSH-MOUNTED SOFFIT LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- WALL-MOUNTED LUMINAIRE, 70 W HPS UNLESS OTHERWISE SPECIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO REMAIN UNMODIFIED
- EXISTING SOFFIT OR WALL-MOUNTED LUMINAIRE TO BE MODIFIED AS SPECIFIED

NOTE:
Arrow indicates "street side" of luminaire.

COMMONLY USED SYMBOLS FOR UNITED STATES CUSTOMARY UNITS OF MEASUREMENT:

SYMBOL	DEFINITIONS
Ω	OHMS
min	MINUTE
s	SECOND
bps	BITS PER SECOND
Bps	BYTES PER SECOND
A	AMPERE
V	VOLT
V(dc)	VOLT (DIRECT CURRENT)
V(ac)	VOLT (ALTERNATING CURRENT)
FC	FOOT - CANDLE
W	WATTS
VA	VOLT-AMPERE
M	MEGA
k	KILO
m	MILLI
μ	MICRO
P	PICO
Hz	HERTZ

MISCELLANEOUS ELECTROLIERS

NEW	EXISTING	
		LUMINAIRE ON WOOD POLE
		NON-STANDARD ELECTROLIER (SEE PROJECT LEGEND)
		CITY ELECTROLIER
		ELECTROLIER FOUNDATION (FUTURE INSTALLATION)

- NOTES:**
- LED luminaires shall be 235 W when installed on Type 21, 21D, 30, 31 and 32 Standards, unless otherwise specified. LED luminaires shall be 165 W when installed on other type standards or poles, unless otherwise specified.
 - Luminaires shall be the cutoff type, ANSI Type III medium cutoff lighting distribution, unless otherwise specified.

STANDARD ELECTROLIER

NEW	EXISTING	STANDARD TYPE
		15
		15D
		15 STRUCTURE
		15D STRUCTURE
		21
		21D
		21 STRUCTURE
		21D STRUCTURE
		30
		31
		32

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1A DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1A DATED JULY 19, 2013 AND STANDARD PLAN ES-1A DATED MAY 20, 2011 - PAGE 425 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1A

2010 REVISED STANDARD PLAN RSP ES-1A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	84	93

Theresa Gabriel
REGISTERED ELECTRICAL ENGINEER

October 30, 2015
PLANS APPROVAL DATE

Theresa Aziz Gabriel
No. E15129
Exp. 6-30-16
ELECTRICAL
STATE OF CALIFORNIA

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TO ACCOMPANY PLANS DATED 1-4-16

CONDUIT

SIGNAL EQUIPMENT

NEW	EXISTING	
---	---	LIGHTING CONDUIT, UNLESS OTHERWISE INDICATED OR NOTED
---	---	TRAFFIC SIGNAL CONDUIT
---C---	---c---	COMMUNICATION CONDUIT
---T---	---t---	TELEPHONE CONDUIT
---F---	---f---	FIRE ALARM CONDUIT
---FO---	---fo---	FIBER OPTIC CONDUIT
---	---	CONDUIT TERMINATION
		CONDUIT RISER ATTACHED TO THE STRUCTURE OR SERVICE POLE

NEW	EXISTING	
		PEDESTRIAN SIGNAL HEAD
		PUSH BUTTON ASSEMBLY POST
		PEDESTRIAN BARRICADE
		VEHICLE SIGNAL HEAD (WITH BACKPLATE AND 3-SECTIONS: RED, YELLOW AND GREEN)
		VEHICLE SIGNAL HEAD WITH ANGLE VISOR
		MODIFICATIONS OF BASIC SYMBOL: "L" INDICATES ALL NON-ARROW SECTIONS LOUVERED "LG" INDICATES LOUVERED GREEN SECTION ONLY "PV" INDICATES ALL 12" SECTIONS PROGRAMMED VISIBILITY "8" INDICATES ALL 8" SECTIONS (ONLY WHEN SPECIFIED)

SIGNAL EQUIPMENT Cont

NEW	EXISTING	
		GUARD POST
		TYPE 1 STANDARD WITH RAMP METERING SIGN
		OPTICAL DETECTOR FOR THE EMERGENCY VEHICLE DETECTION

SERVICE EQUIPMENT

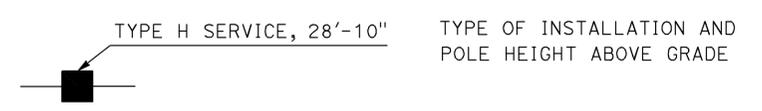
NEW	EXISTING	
---OH---	---oh---	OVERHEAD LINES
		WOOD POLE, "U" INDICATES UTILITY OWNED
		POLE GUY WITH ANCHOR
		UTILITY TRANSFORMER - GROUND MOUNTED
		SERVICE EQUIPMENT ENCLOSURE TYPE. DOOR INDICATES FRONT OF ENCLOSURE
		TELEPHONE DEMARCATION CABINET

NEW	EXISTING	
		VEHICLE SIGNAL HEAD CONSISTING OF RED, YELLOW AND GREEN LEFT ARROW SECTIONS
		VEHICLE SIGNAL HEAD CONSISTING OF RED AND YELLOW SECTIONS WITH AN UP GREEN ARROW SECTION
		VEHICLE SIGNAL HEAD (5 SECTION) CONSISTING OF RED, YELLOW AND GREEN SECTIONS WITH YELLOW AND GREEN RIGHT ARROW SECTIONS
		TYPE 15TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		TYPE 21TS STANDARD WITH VEHICLE SIGNAL HEAD AND LUMINAIRE
		STANDARD WITH LUMINAIRE AND SIGNAL MAST ARMS AND ATTACHED VEHICLE SIGNAL HEADS
		TYPE 1 STANDARD WITH ATTACHED VEHICLE SIGNAL HEADS
		STANDARD WITH A SIGNAL MAST ARM, ATTACHED VEHICLE SIGNAL HEADS AND INTERNALLY ILLUMINATED STREET NAME SIGN
		CONTROLLER ASSEMBLY. DOOR INDICATES FRONT OF CABINET

NOTES:

- All signal sections shall be 12" unless shown otherwise.
- Signal heads shall be provided with backplates unless shown otherwise.

POLE-MOUNTED SERVICE DESIGNATION



FLASHING BEACON

NEW	EXISTING	
		FLASHING BEACON (ONE VEHICLE SIGNAL HEAD WITH BACKPLATE AND VISOR) "R" INDICATES RED INDICATION, "Y" INDICATES YELLOW INDICATION
		FLASHING BEACON WITH TYPE 15-FBS STANDARD AND A SIGN.
		FLASHING BEACON WITH TYPES 9, 9A OR 9B SIGN UNLESS OTHERWISE SPECIFIED OR INDICATED

ILLUMINATED OVERHEAD SIGN

NEW	EXISTING	
		SINGLE POST, SINGLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, DOUBLE ILLUMINATED SIGN, BALANCED BUTTERFLY
		SINGLE POST, SINGLE ILLUMINATED SIGN, FULL CANTILEVER
		DOUBLE POST, SINGLE ILLUMINATED SIGN
		SINGLE ILLUMINATED SIGN MOUNTED ON STRUCTURE
		DOUBLE POST, SINGLE ILLUMINATED SIGN WITH ELECTROLIER

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(LEGEND AND ABBREVIATIONS)**
NO SCALE

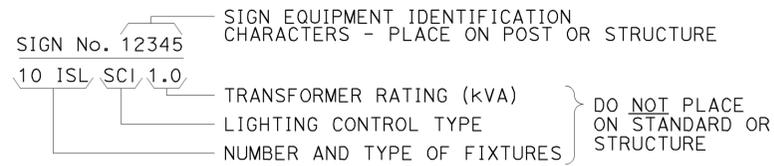
RSP ES-1B DATED OCTOBER 30, 2015 SUPERSEDES RSP ES-1B DATED JULY 19, 2013 AND STANDARD PLAN ES-1B DATED MAY 20, 2011 - PAGE 426 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1B

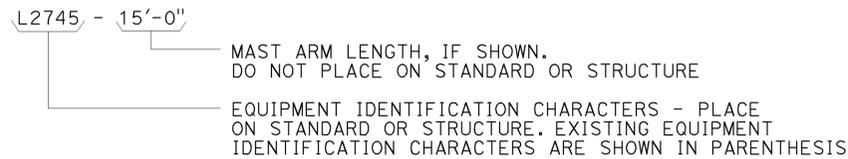
2010 REVISED STANDARD PLAN RSP ES-1B

EQUIPMENT IDENTIFICATION

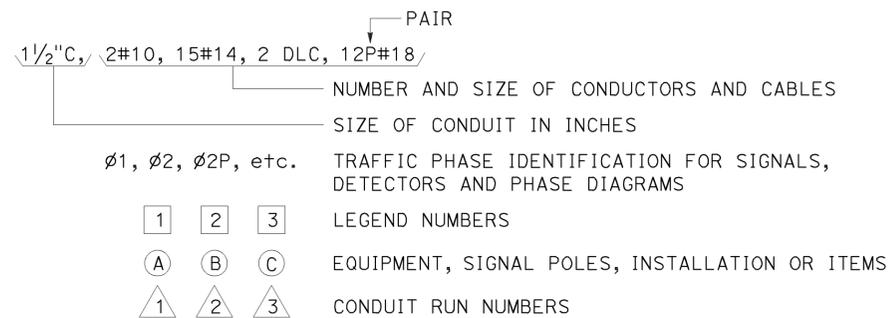
ILLUMINATED SIGN IDENTIFICATION:



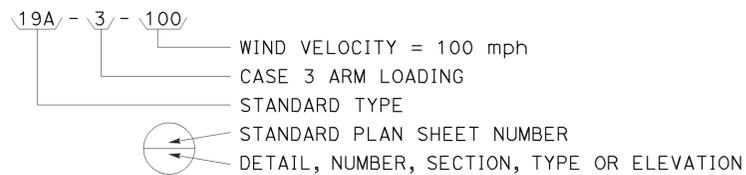
ELECTROLIER OR EQUIPMENT IDENTIFICATION:



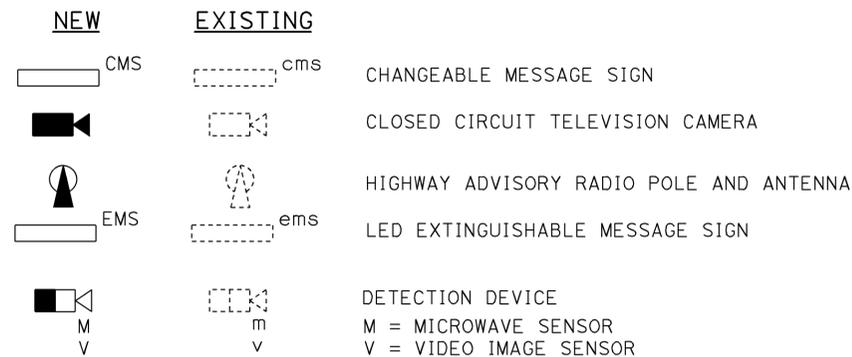
CONDUIT AND CONDUCTOR IDENTIFICATION:



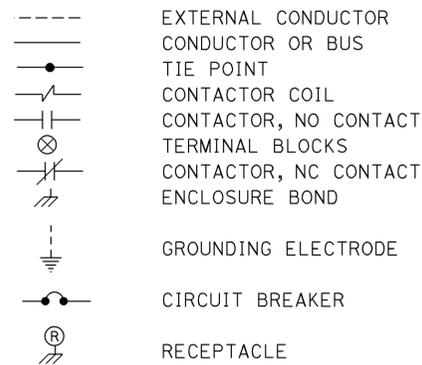
SIGNAL AND LIGHTING STANDARD (TYPICAL DESIGNATION):



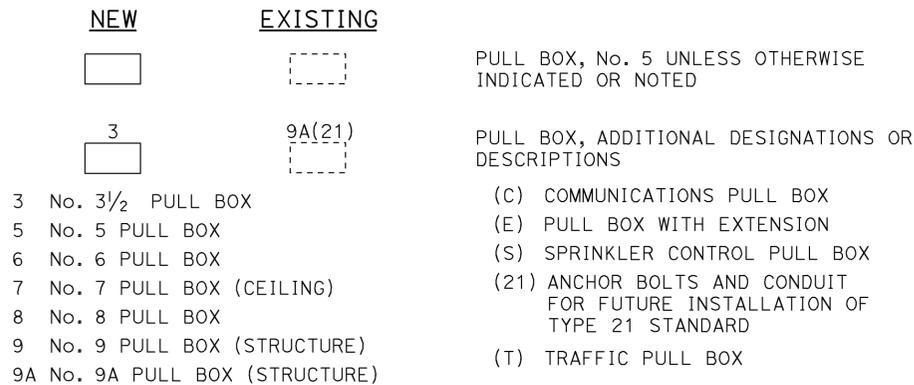
MISCELLANEOUS EQUIPMENT



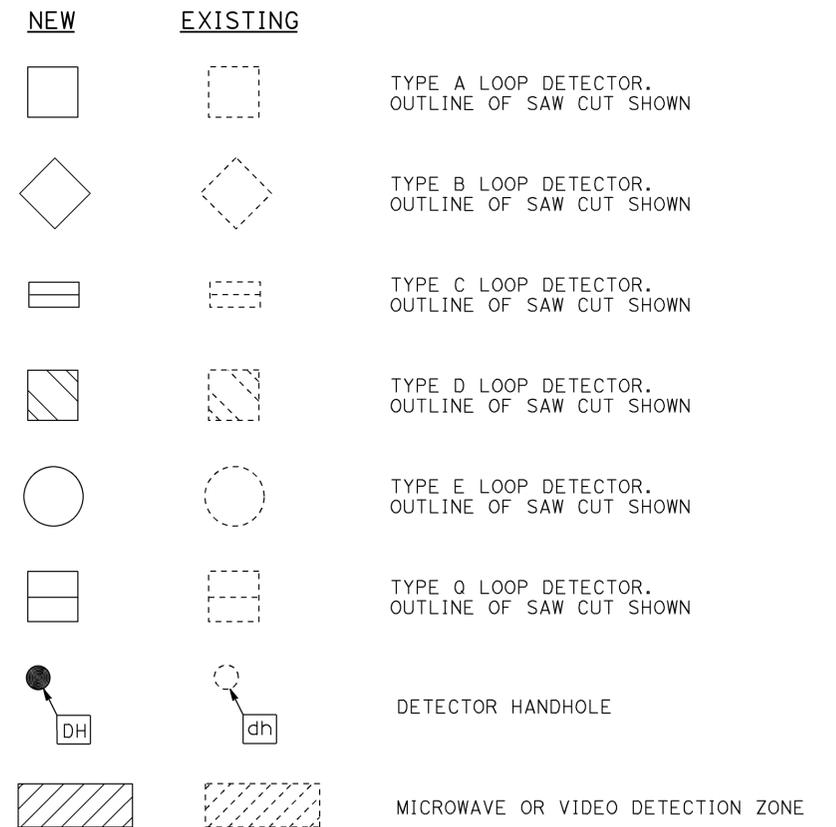
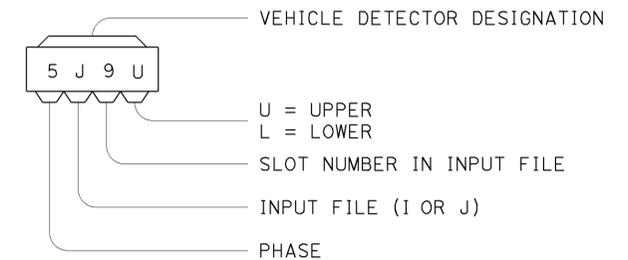
WIRING DIAGRAM LEGEND



PULL BOXES



VEHICLE DETECTORS



STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS (LEGEND AND ABBREVIATIONS)

NO SCALE

RSP ES-1C DATED APRIL 15, 2016 SUPERSEDES RSP ES-1C DATED OCTOBER 30, 2015 AND RSP ES-1C DATED JULY 19, 2013 AND STANDARD PLAN ES-1C DATED MAY 20, 2011 - PAGE 427 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-1C

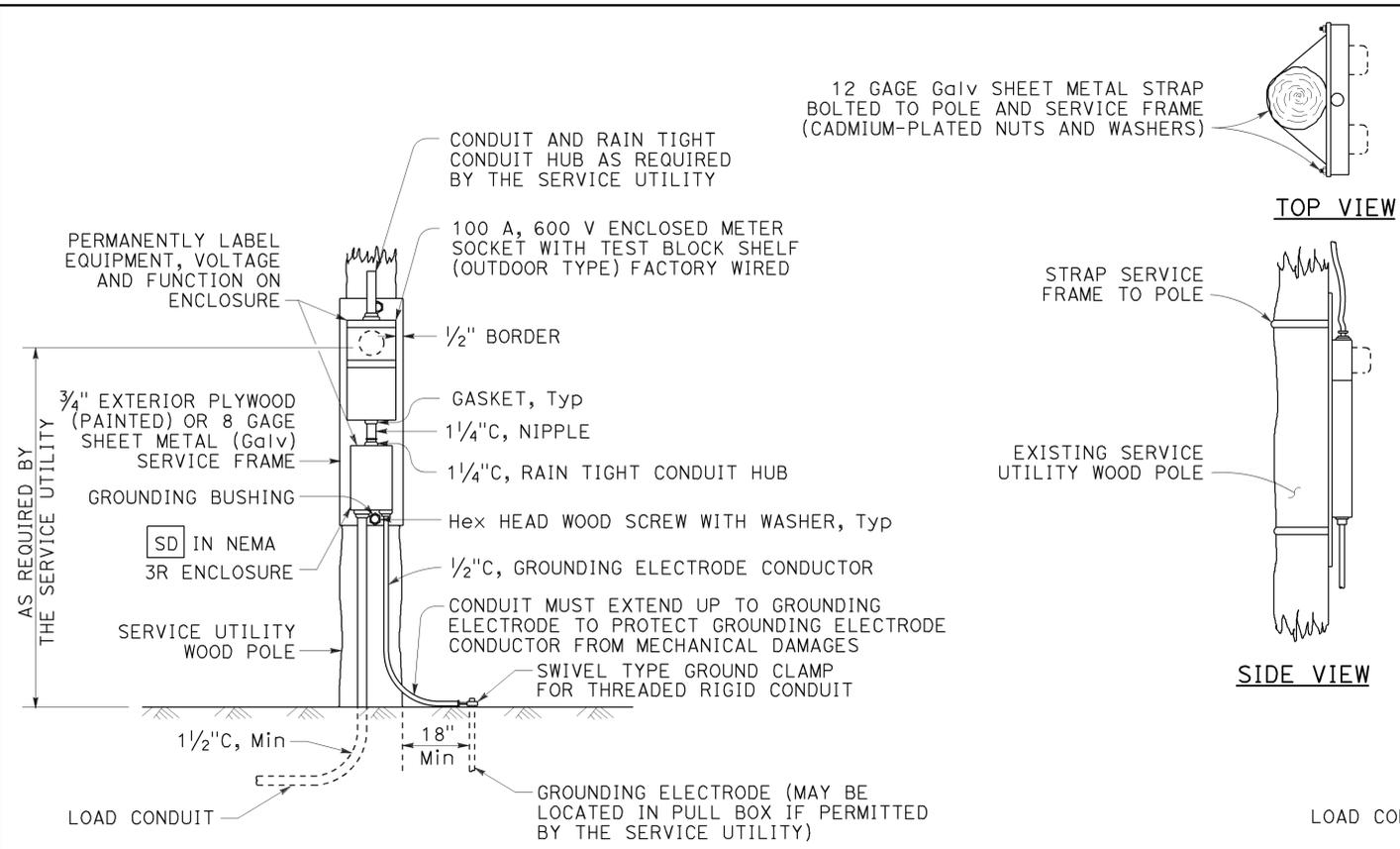
2010 REVISED STANDARD PLAN RSP ES-1C

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	86	93

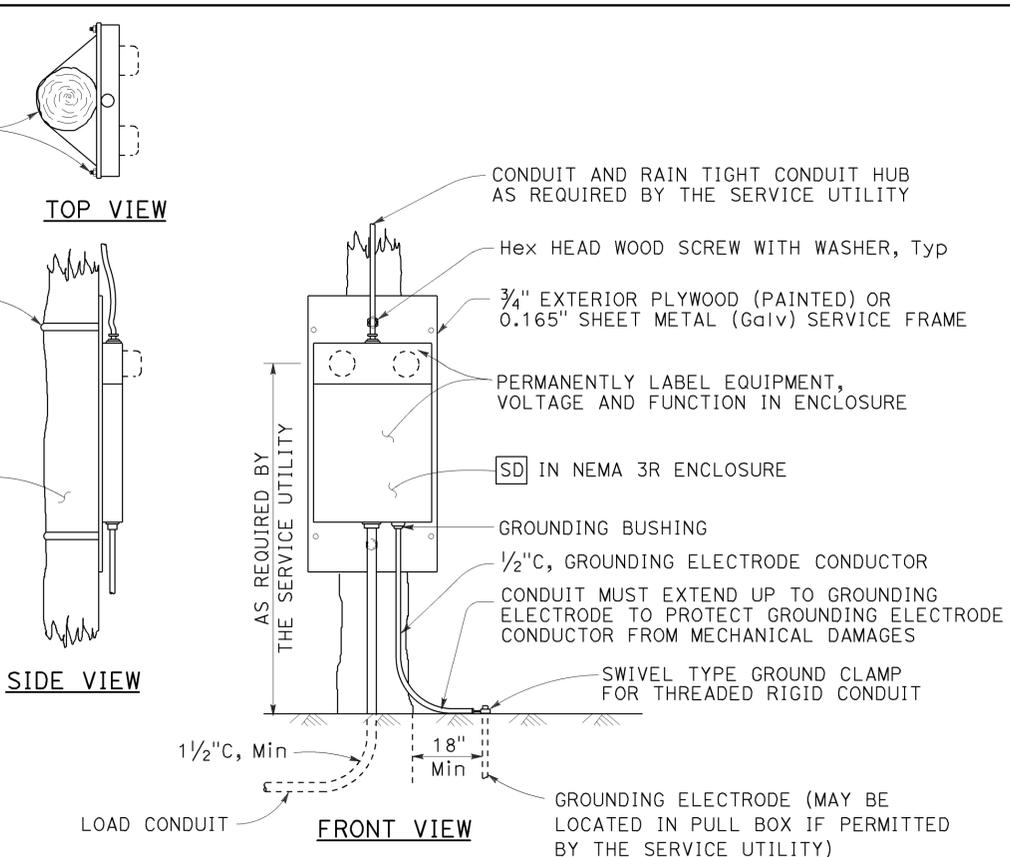
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE
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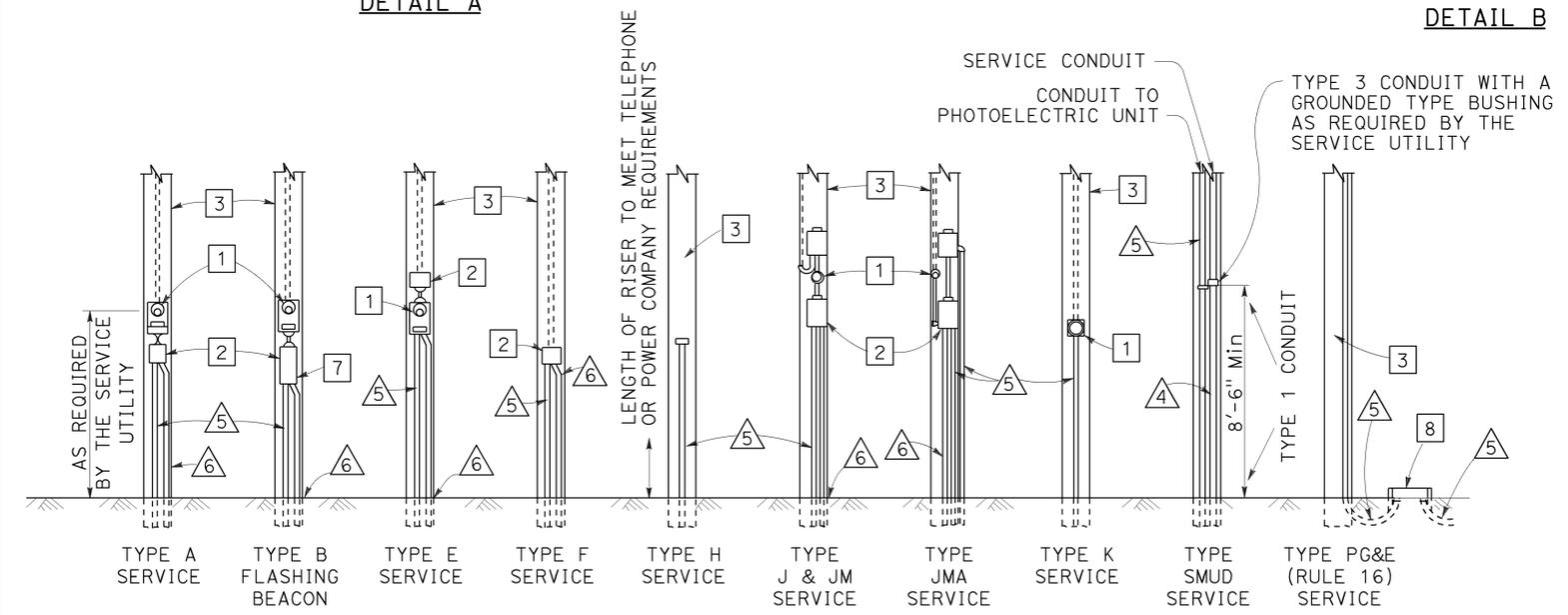
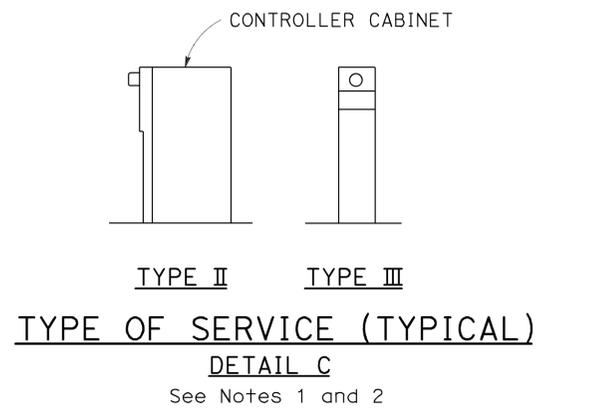
TO ACCOMPANY PLANS DATED 1-4-16



TYPE SCE-1
DETAIL A

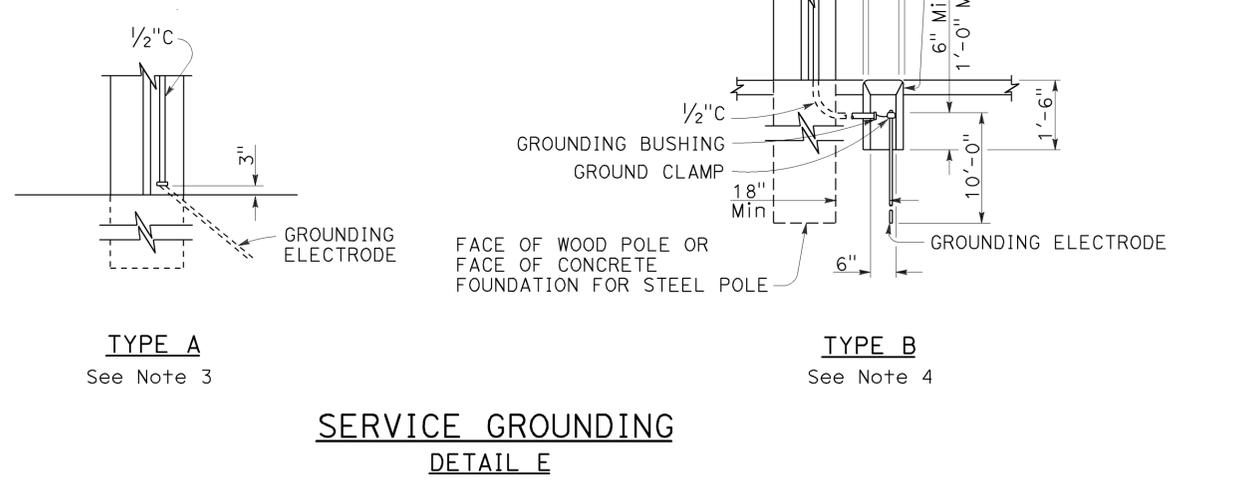


TYPE SCE-2
DETAIL B



POLE MOUNTED SERVICE INSTALLATIONS
DETAIL D

- LEGEND:**
- 1 METER SOCKET.
 - 2 SERVICE ENCLOSURE WITH A MINIMUM 60 A RATED MAIN CIRCUIT BREAKER, UNLESS OTHERWISE SHOWN.
 - 3 A. UTILITY OWNED POLE. THE SERVICE UTILITY WILL FURNISH AND INSTALL REQUIRED SERVICE RISER, PEU WITH CONDUCTORS AND OTHER EQUIPMENT AS NEEDED.
B. STATE OWNED POLE. THE CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED SERVICE RISER AND EQUIPMENT.
 - 4 2" C, SERVICE CONDUIT MUST HAVE A GROUNDED TYPE BUSHING INSTALLED AT UPPER END OF THE METALLIC POLE RISER CONDUIT. A GROUNDING CONDUCTOR MUST BE ATTACHED TO THE BUSHING, CARRIED THROUGH THE CONDUIT RUN AND ATTACHED TO THE SERVICE EQUIPMENT ENCLOSURE'S GROUNDING ELECTRODE.
 - 5 CONDUIT, LENGTH AND SIZE AS REQUIRED.
 - 6 1/2" C, 1#6. SEE DETAIL E.
 - 7 FLASHING BEACON CONTROL ASSEMBLY.
 - 8 SERVICE PULL BOX, No. 5 UNLESS OTHERWISE NOTED, FURNISHED AND INSTALLED BY THE CONTRACTOR. SERVICE UTILITY SHALL DETERMINE THE EXACT LOCATION.



- NOTES:**
- Type II service equipment enclosure mounted on the side of a controller cabinet.
 - Type III complete free-standing service equipment enclosure.
 - Ground clamp and required fittings must be accessible. Conduit must extend to protect grounding electrode conductor from mechanical damage.
 - Use where service utility requires 18" clearance between grounding electrode and the pole or service equipment enclosure. Installation shown is for sidewalk or paved areas. In unpaved areas, omit special service pull box and locate ground clamp above ground or locate ground clamp in nearest pull box.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

ELECTRICAL SYSTEMS
(SERVICE EQUIPMENT)

NO SCALE

RSP ES-2A DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-2A DATED MAY 20, 2011 - PAGE 428 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-2A

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	87	93

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE



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TO ACCOMPANY PLANS DATED 1-4-16

NOTES:

1. The plan shows the approximate location of devices within the enclosure. Components may be rearranged, however, the "working" clearances within the service equipment enclosure shall be maintained.
2. In unpaved areas a raised portland cement concrete pad 2'-0" x 4" x width of foundation shall be constructed in front of new service equipment enclosure installation. Pad shall be set to elevation of foundation.
3. Plug-in circuit breakers may be mounted in the vertical or horizontal position. Cable-in/cable-out circuit breakers shall be mounted in the vertical position.
4. Type III-AF and Type III-BF service equipment enclosures shall have the meter viewing windows located on the front side of the service equipment enclosures.
5. Type III-AR and Type III-BR service equipment enclosure shall be similarly constructed as Type III-AF and Type III-BF respectively, except the meter viewing windows shall be located on the back side of the service equipment enclosures.

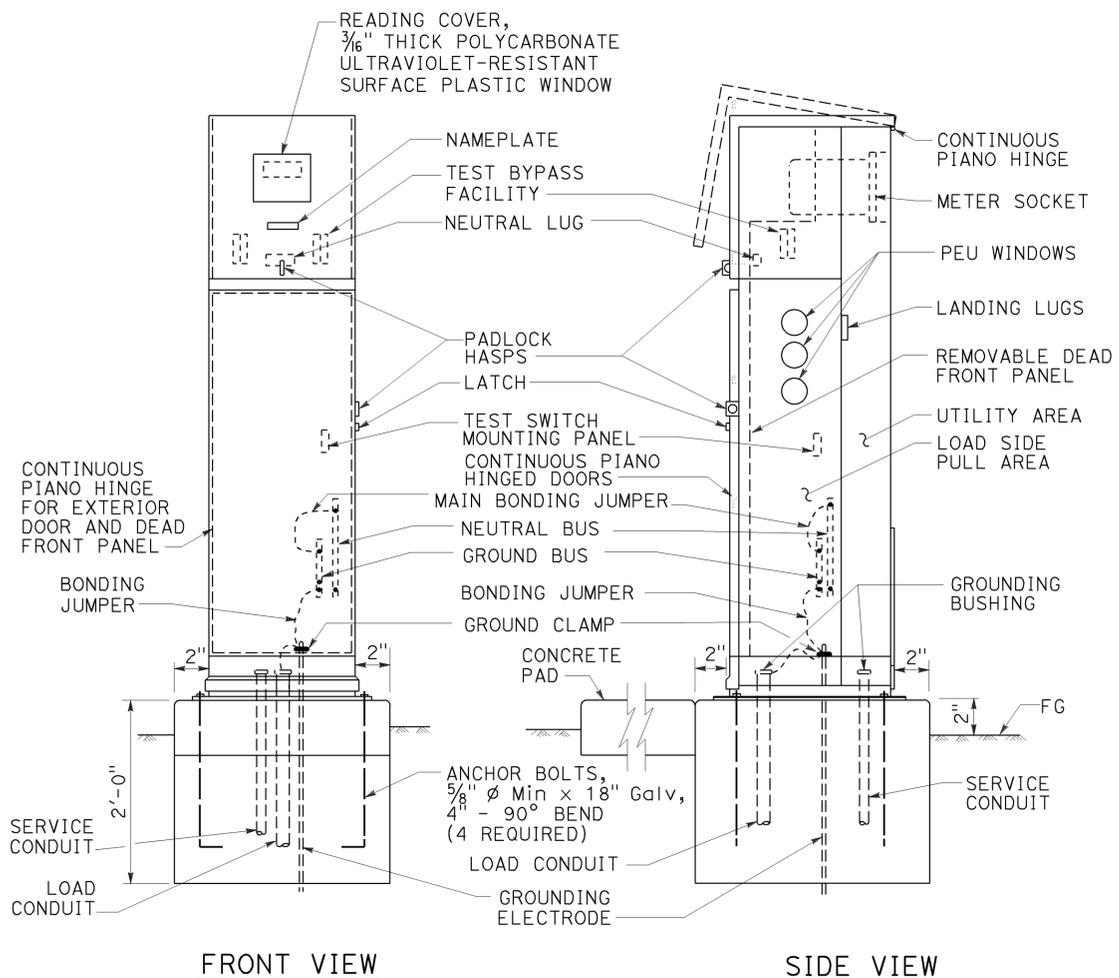
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
 (SERVICE EQUIPMENT ENCLOSURE
 NOTES TYPE III SERIES)**

NO SCALE

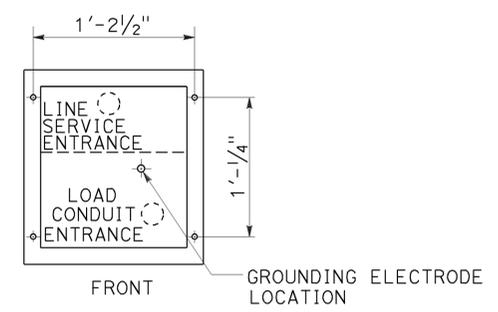
RSP ES-2C DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-2C DATED MAY 20, 2011 - PAGE 430 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-2C

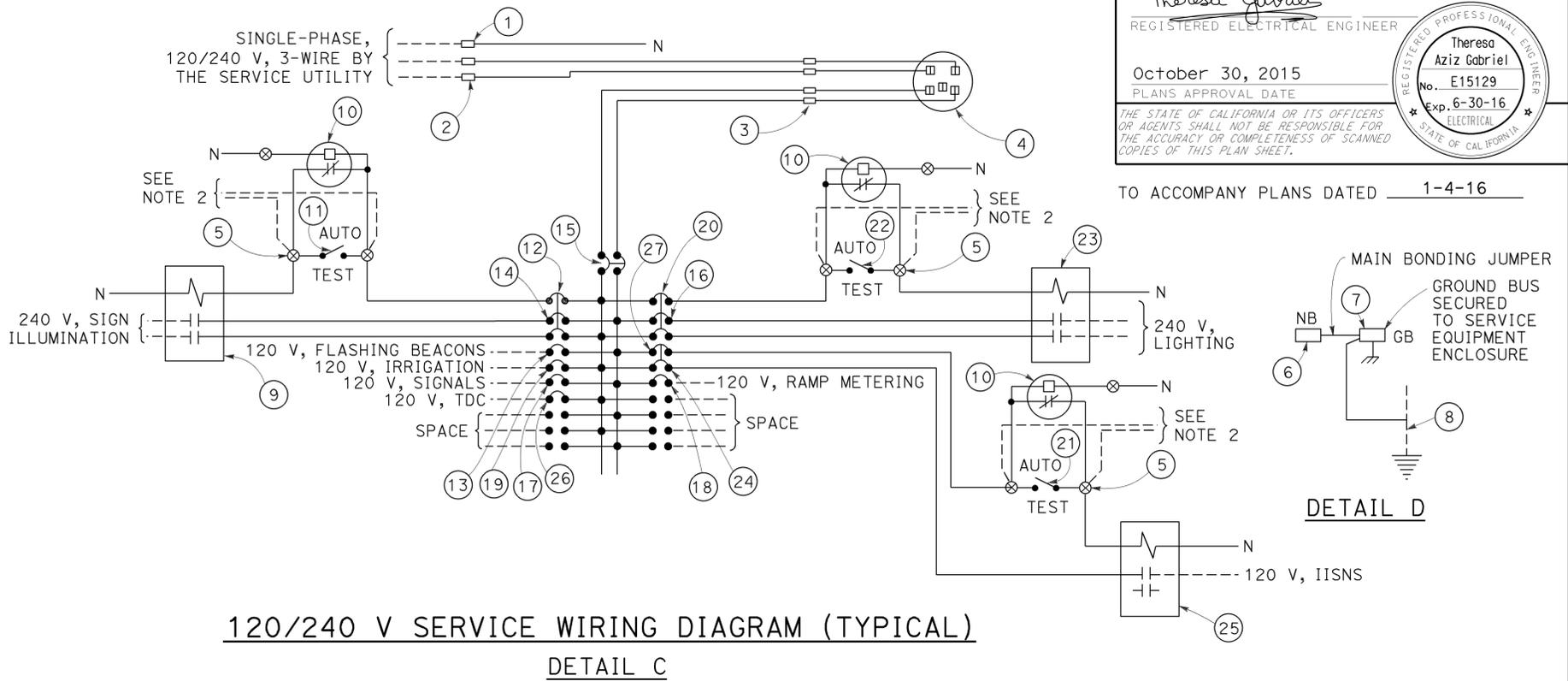
2010 REVISED STANDARD PLAN RSP ES-2C



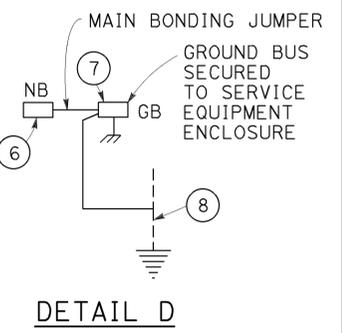
TYPE III-BF SERVICE EQUIPMENT ENCLOSURE (TYPICAL)
 FRONT VIEW SIDE VIEW
 DETAIL A



BASE FOR TYPE III-B SERVICE EQUIPMENT ENCLOSURE
 DETAIL B



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)
 DETAIL C



TYPE III-B SERVICE EQUIPMENT ENCLOSURE LEGEND (120/240 V)

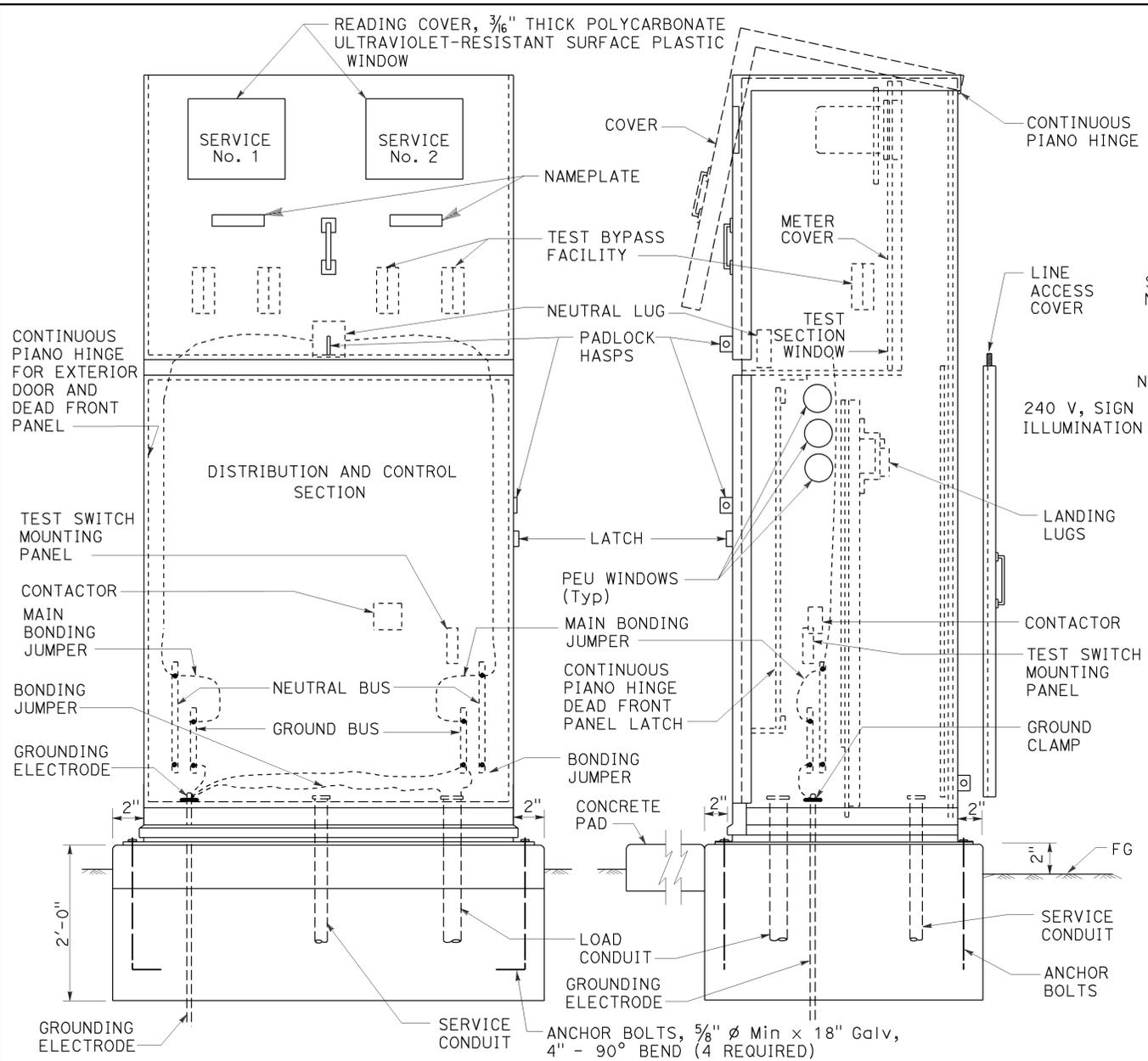
ITEM	COMPONENT	NAMEPLATE DESCRIPTION	ITEM	COMPONENT	NAMEPLATE DESCRIPTION
①	NEUTRAL LUG		⑭	30 A, 240 V, 2P, CB	SIGN ILLUMINATION
②	LANDING LUG		⑮	100 A, 240 V, 2P, CB	MAIN BREAKER
③	TEST BYPASS FACILITY		⑯	30 A, 240 V, 2P, CB	LIGHTING
④	METER SOCKET AND SUPPORT		⑰	50 A, 120 V, 1P, CB	SIGNALS
⑤	TERMINAL BLOCKS		⑱	30 A, 120 V, 1P, CB	RAMP METERING
⑥	NEUTRAL BUS		⑲	20 A, 120 V, 1P, CB	IRRIGATION
⑦	GROUND BUS		⑳	15 A, 120 V, 1P, CB	LIGHTING CONTROL
⑧	GROUNDING ELECTRODE		㉑	15 A, 1P, TEST SWITCH	IISNS TEST SWITCH
⑨	30 A, 2P, NO CONTACTOR	SIGN ILLUMINATION	㉒	15 A, 1P, TEST SWITCH	LIGHTING TEST SWITCH
⑩	PHOTOELECTRIC UNIT (NOTE 4)	PEU	㉓	60 A, 2P, NO CONTACTOR	LIGHTING
⑪	15 A, 1P, TEST SWITCH	SIGN ILLUMINATION TEST SWITCH	㉔	15 A, 120 V, 1P, CB	IISNS
⑫	15 A, 120 V, 1P, CB	SIGN ILLUMINATION CONTROL	㉕	30 A, 2P, NO CONTACTOR	IISNS
⑬	15 A, 120 V, 1P, CB	FLASHING BEACON	㉖	20 A, 120 V, 1P, CB	TELEPHONE DEMARCATION CABINET
			㉗	15 A, 120 V, 1P, CB	IISNS CONTROL

- NOTES:**
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
 - Connect to remote test switch mounted on lighting standards, sign post or structure when required.
 - Items ① and ⑥ shall be isolated from the service equipment enclosure.
 - Type I photoelectric control shall be used unless otherwise indicated on the plans.
 - Item ⑫, ⑳ and ㉗ shall be ganged operated CB.

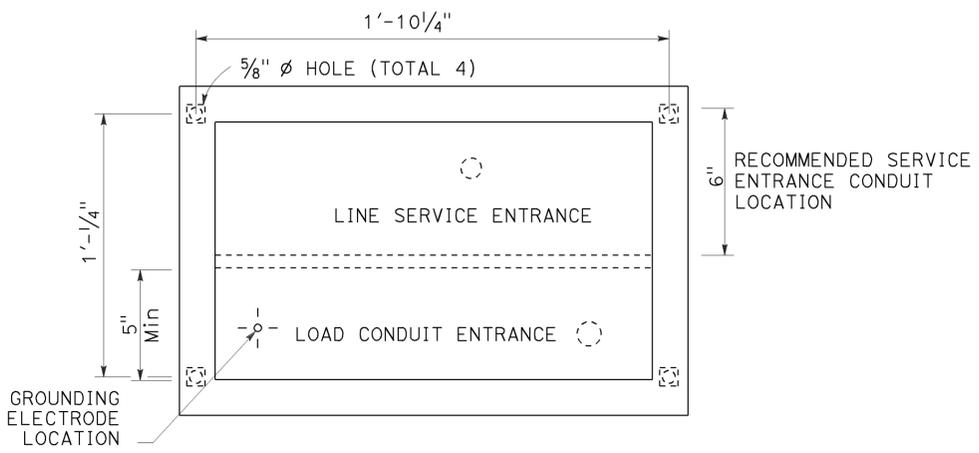
STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SERVICE EQUIPMENT ENCLOSURE AND
TYPICAL WIRING DIAGRAM,
TYPE III-B SERIES)
 NO SCALE

RSP ES-2E DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-2E DATED MAY 20, 2011 - PAGE 432 OF THE STANDARD PLANS BOOK DATED 2010.

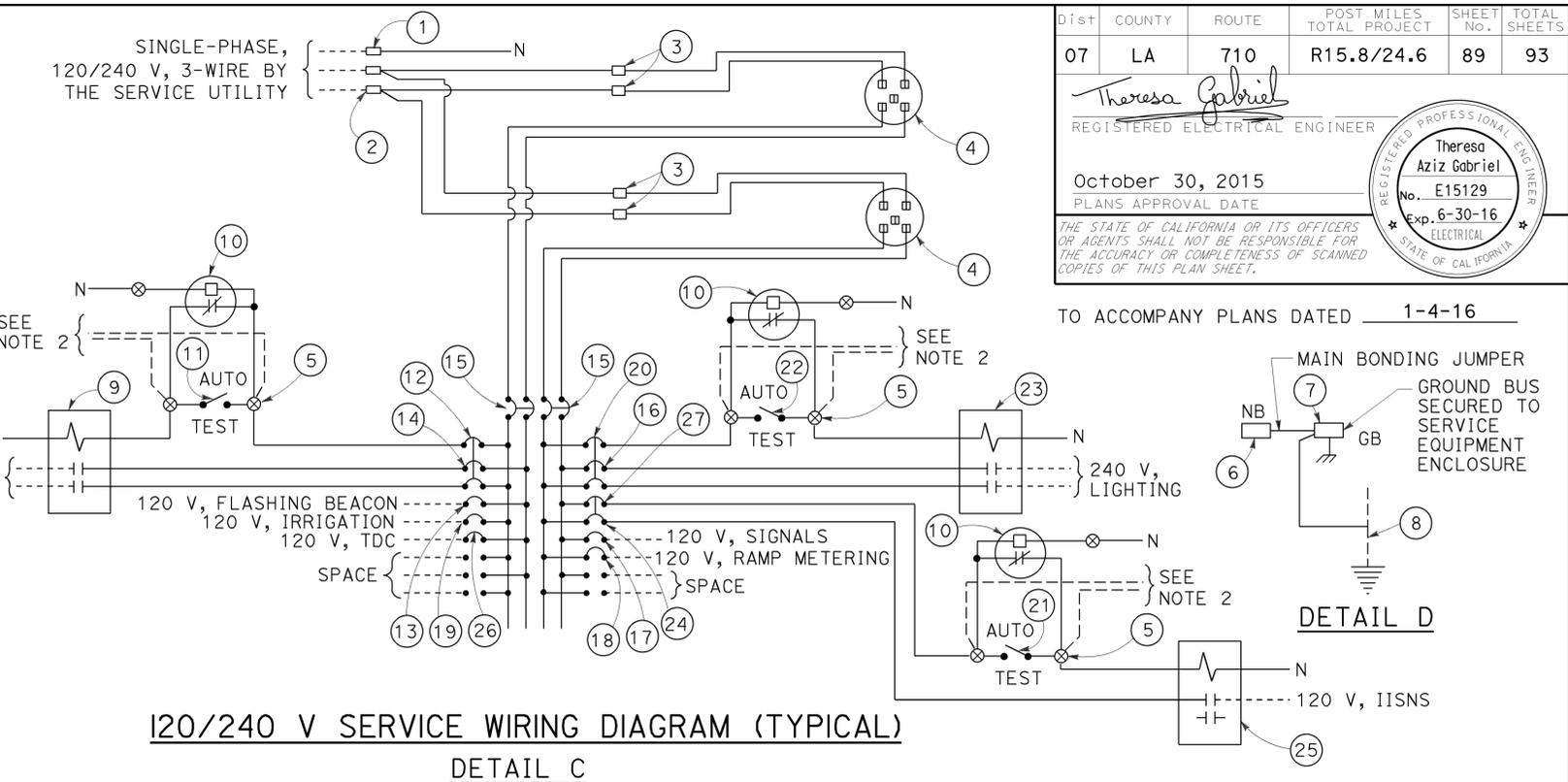
2010 REVISED STANDARD PLAN RSP ES-2E



FRONT VIEW
TYPE III-CF SERVICE EQUIPMENT ENCLOSURE (TYPICAL)
DETAIL A



BASE FOR TYPE III-C SERVICE EQUIPMENT ENCLOSURE
DETAIL B



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)
DETAIL C

TYPE III-C SERVICE EQUIPMENT ENCLOSURE LEGEND (120/240 V)					
ITEM	COMPONENT	NAMEPLATE DESCRIPTION	ITEM	COMPONENT	NAMEPLATE DESCRIPTION
1	NEUTRAL LUG		14	30 A, 240 V, 2P, CB	SIGN ILLUMINATION
2	LANDING LUG		15	100 A, 240 V, 2P, CB	MAIN BREAKER
3	TEST BYPASS FACILITY		16	30 A, 240 V, 2P, CB	LIGHTING
4	METER SOCKET AND SUPPORT		17	50 A, 120 V, 1P, CB	SIGNALS
5	TERMINAL BLOCKS		18	30 A, 120 V, 1P, CB	RAMP METERING
6	NEUTRAL BUS		19	20 A, 120 V, 1P, CB	IRRIGATION
7	GROUND BUS		20	15 A, 120 V, 1P, CB	LIGHTING CONTROL
8	GROUNDING ELECTRODE		21	15 A, 1P, TEST SWITCH	IISNS TEST SWITCH
9	30 A, 2P, NO CONTACTOR	SIGN ILLUMINATION	22	15 A, 1P, TEST SWITCH	LIGHTING TEST SWITCH
10	PHOTOELECTRIC UNIT (NOTE 4)	PEU	23	60 A, 2P, NO CONTACTOR	LIGHTING
11	15 A, 1P, TEST SWITCH	SIGN ILLUMINATION TEST SWITCH	24	15 A, 120 V, 1P, CB	IISNS
12	15 A, 120 V, 1P, CB	SIGN ILLUMINATION CONTROL	25	30 A, 2P, NO CONTACTOR	IISNS
13	15 A, 120 V, 1P, CB	FLASHING BEACON	26	20 A, 120 V, 1P, CB	TELEPHONE DEMARCATION CABINET
			27	15 A, 120 V, 1P, CB	IISNS CONTROL

- NOTES:
- Unless otherwise indicated on the plans, service equipment items shall be provided for each service equipment enclosure as shown.
 - Connect to remote test switch mounted on lighting standards, sign post or structure when required.
 - Items 1 and 6 shall be isolated from the service equipment enclosure.
 - Type I photoelectric control shall be used unless otherwise indicated on the plans.
 - Item 12, 20 and 27 shall be ganged operated CB.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
(SERVICE EQUIPMENT ENCLOSURE AND
TYPICAL WIRING DIAGRAM
TYPE III-C SERIES)**

NO SCALE

2010 REVISED STANDARD PLAN RSP ES-2F

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	90	93

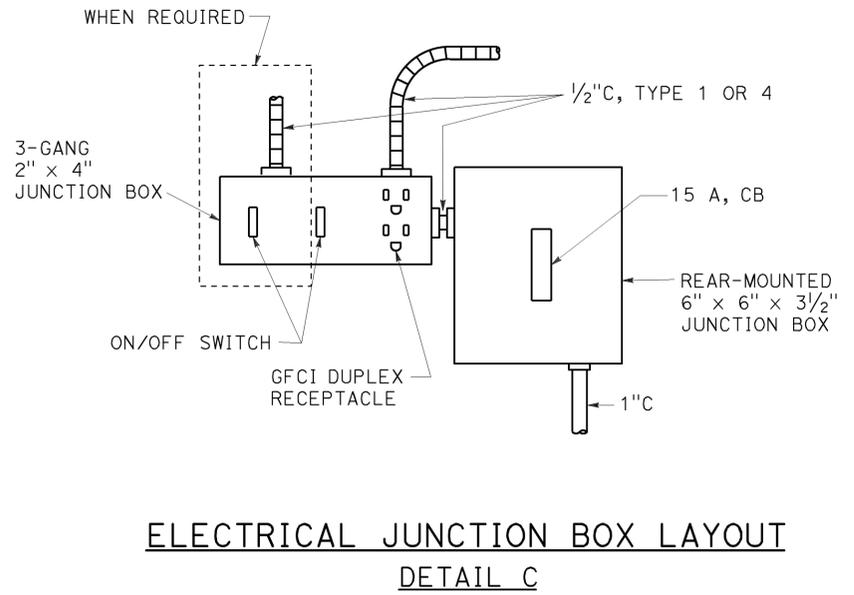
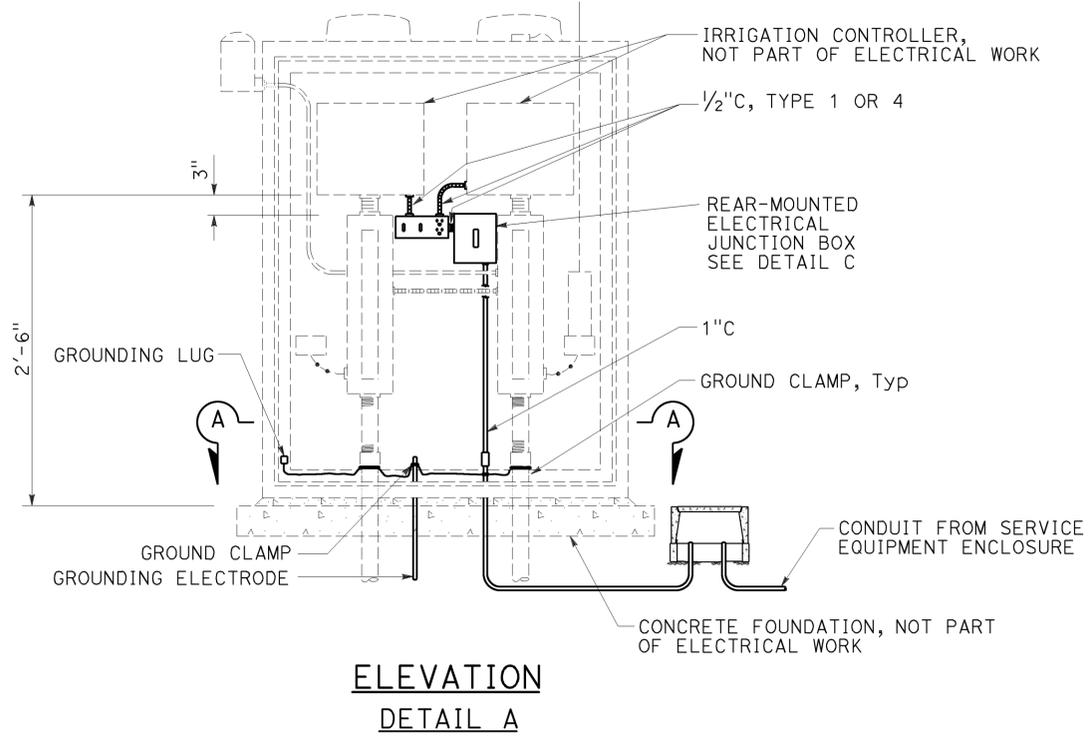
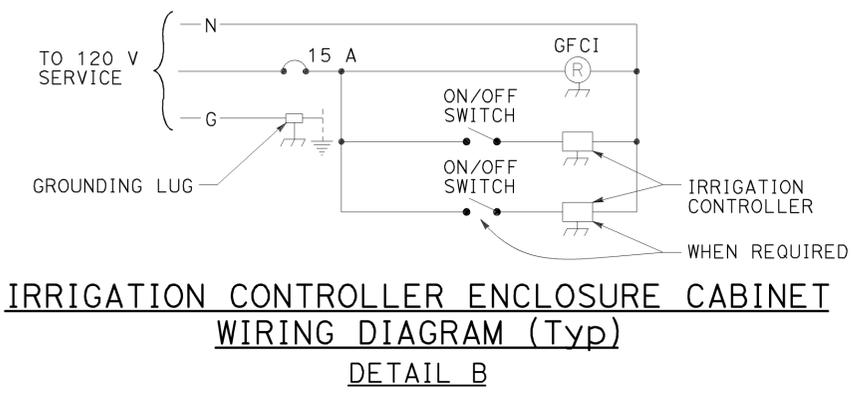
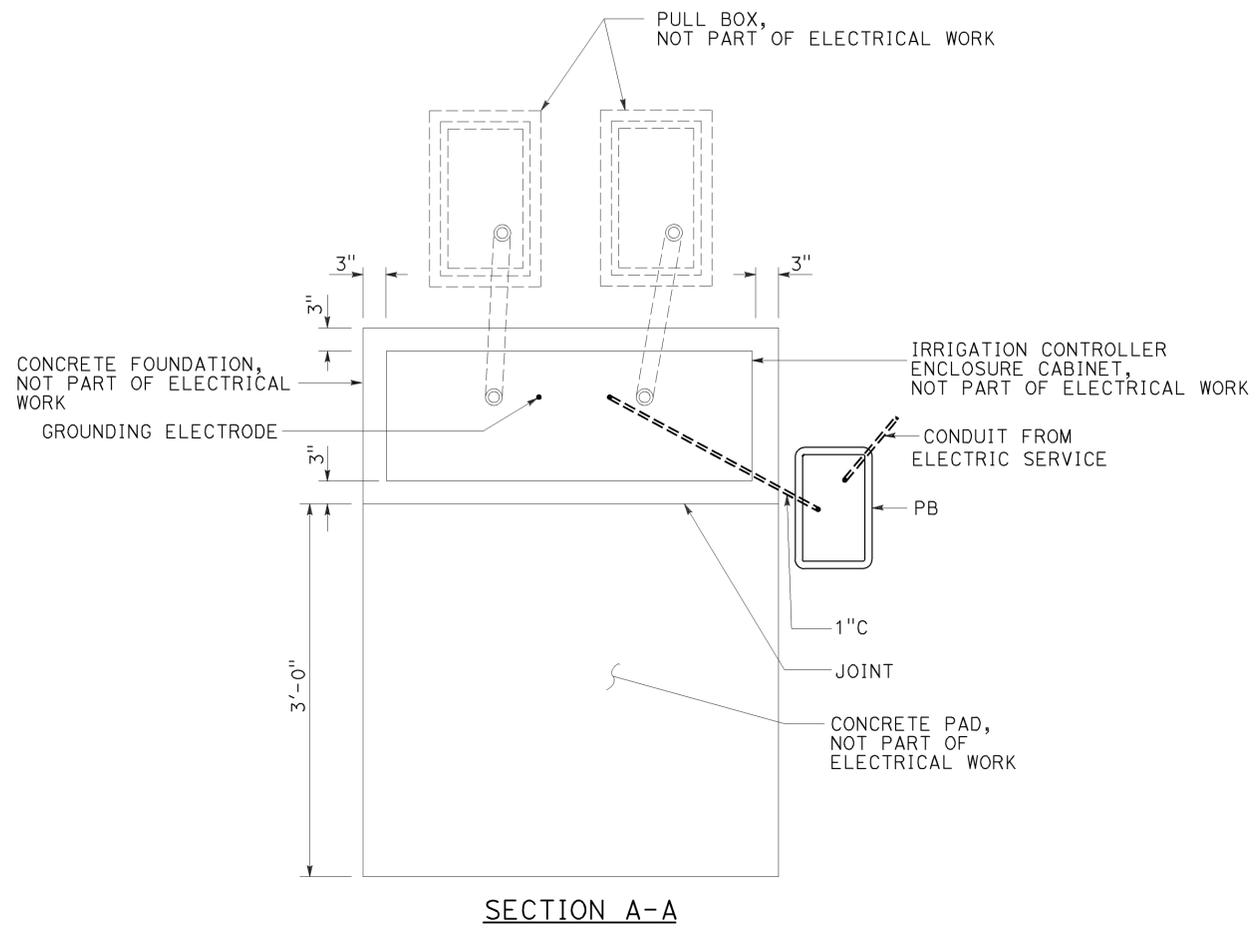
Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 October 30, 2015
 PLANS APPROVAL DATE

Theresa
 Aziz Gabriel
 No. E15129
 Exp. 6-30-16
 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.

TO ACCOMPANY PLANS DATED 1-4-16

- NOTES:**
- See Standard Plan H10 for other details.
 - Underground electrical work done prior to foundation installation.



STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

**ELECTRICAL SYSTEMS
 (IRRIGATION CONTROLLER
 ENCLOSURE CABINET)**

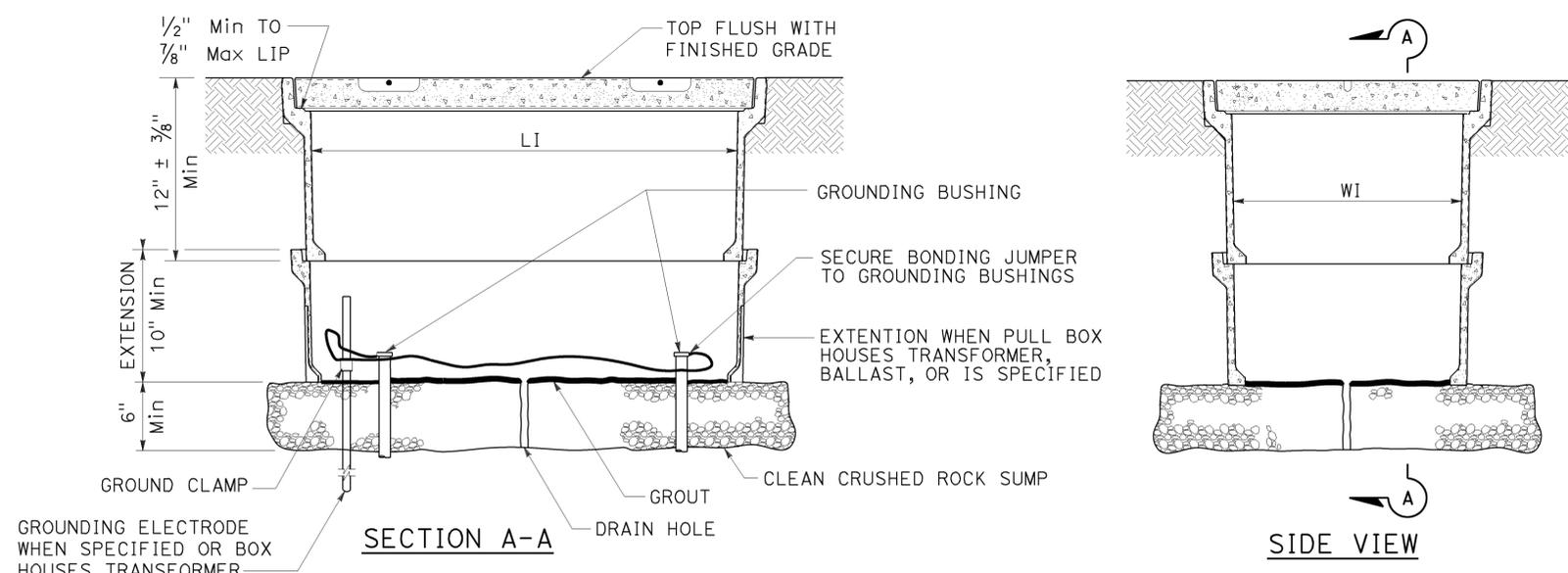
NO SCALE

RSP ES-3H DATED OCTOBER 30, 2015 SUPERSEDES STANDARD PLAN ES-3H DATED MAY 20, 2011 - PAGE 442 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-3H

2010 REVISED STANDARD PLAN RSP ES-3H

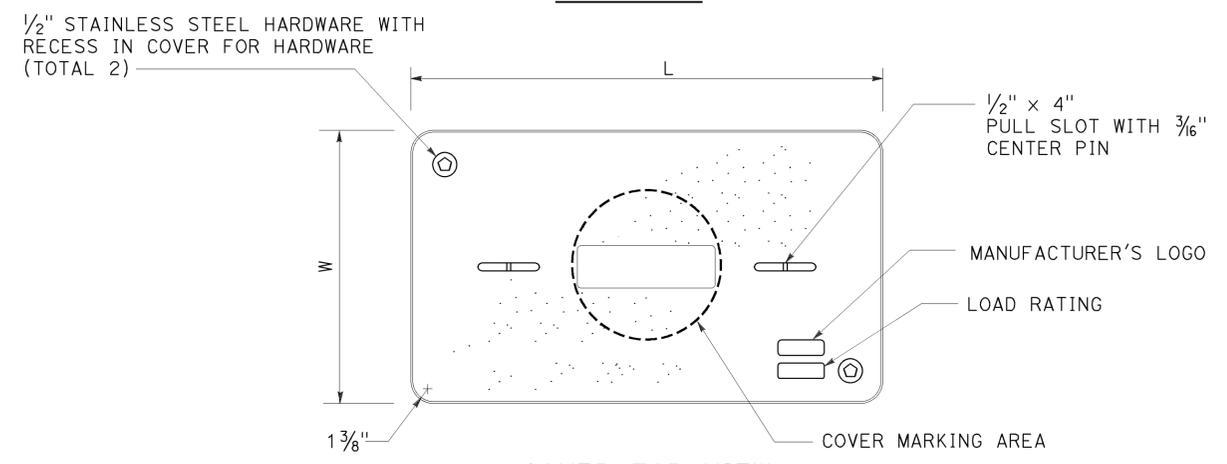
TO ACCOMPANY PLANS DATED 1-4-16



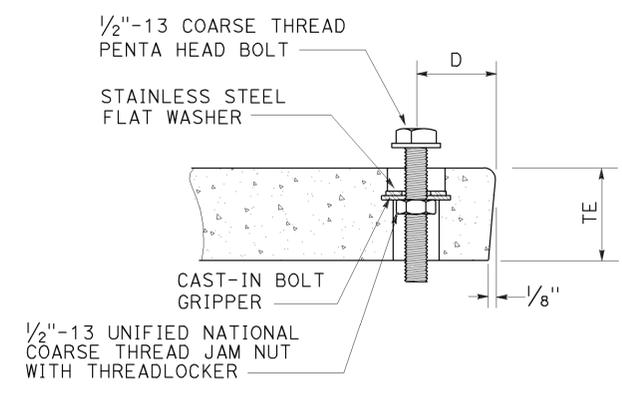
INSTALLATION DETAILS
DETAIL A

NOTES:

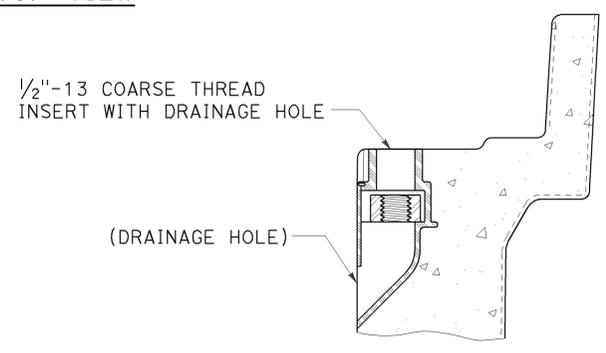
1. The nominal dimensions of the opening in which the cover sets shall be the same as the cover dimensions except the length and width dimensions shall be 1/8" greater.
2. Covers and boxes shall be interchangeable with California standard male and female gages. When interchanged with a standard male or female gage, the top surfaces shall be flush within 1/8". Top outside radius of covers and pull boxes shall have a 1/8" radius.
3. Dimensions for the cover for non-traffic pull box are nominal values.



COVER TOP VIEW



TYPICAL COVER CAPTIVE BOLT
OR SIMILAR



TYPICAL THREADED INSERT
OR SIMILAR

DIMENSION TABLE										
PULL BOX	PULL BOX			COVER						
	MINIMUM DEPTH BOX	MINIMUM DEPTH EXTENSION	MINIMUM WEIGHT	LI Min	WI Min	TE	D	L	W	MINIMUM WEIGHT
No. 3 1/2	12"	N/A	40 lb	1' - 3"	9"	1 3/4"	1 3/4"	1'-3 1/4" - 1'-3 3/8"	10" - 10 1/8"	30 lb
No. 5	12"	10"	55 lb	1' - 8"	11"	2"	1 3/4"	1'-11 1/4"	1'-1 3/4"	60 lb
No. 6	12"	10"	70 lb	2' - 4 1/4"	1' - 3 1/4"	2"	2"	2'-6 1/2"	1'-5 1/2"	85 lb

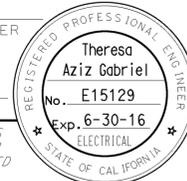
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(NON-TRAFFIC PULL BOX)
NO SCALE

RSP ES-8A DATED APRIL 15, 2016 SUPERSEDES RSP ES-8A DATED OCTOBER 30, 2015 AND RSP ES-8A DATED JULY 19, 2013 AND RSP ES-8A DATED JANUARY 20, 2012 THAT SUPPLEMENTS THE STANDARD PLANS BOOK DATED 2010.

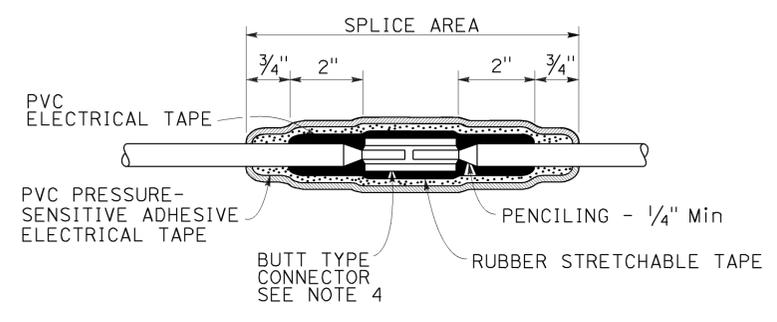
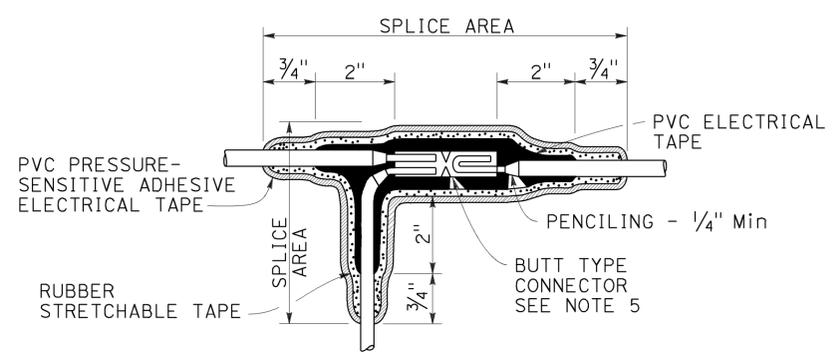
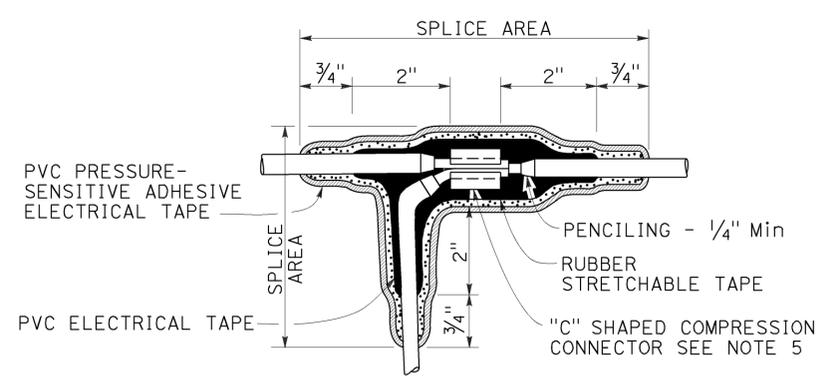
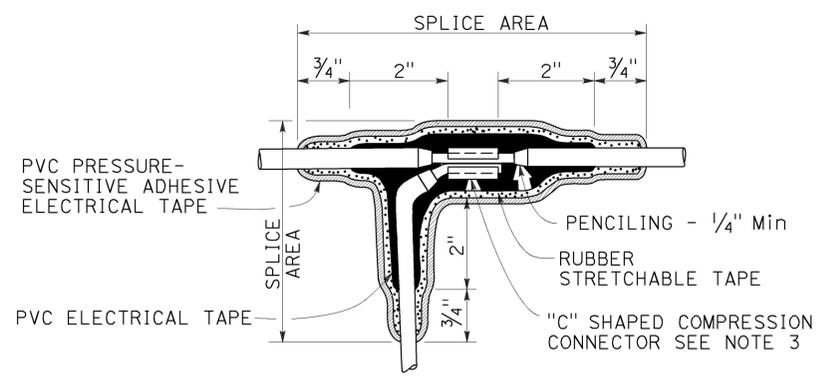
2010 REVISED STANDARD PLAN RSP ES-8A

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	710	R15.8/24.6	92	93

Theresa Gabriel
 REGISTERED ELECTRICAL ENGINEER
 April 15, 2016
 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.



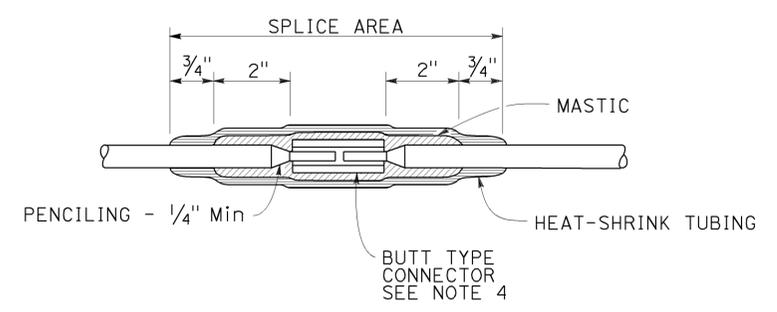
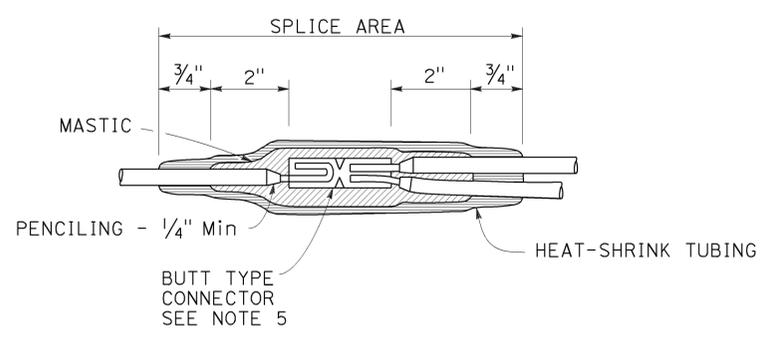
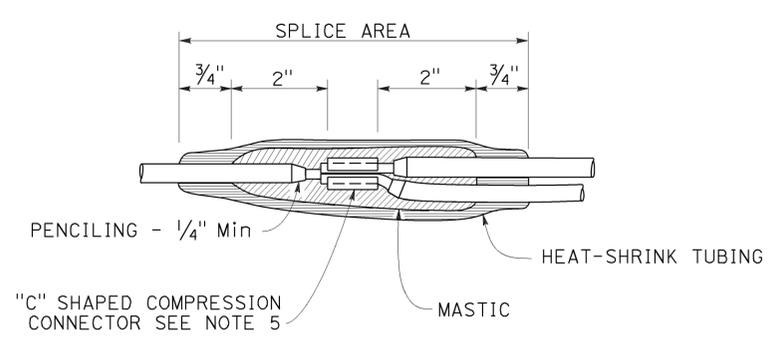
TO ACCOMPANY PLANS DATED 1-4-16



NOTES:

1. Dimensions are minimum.
2. Rubber tapes shall be rolled after application.
3. Between 1 free-end and 1 through conductor.
4. Between 2 free-end conductors.
5. Between 3 free-end conductors.

TYPICAL SPLICE INSULATION METHOD B



TYPICAL SPLICE INSULATION HEAT-SHRINK TUBING

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
ELECTRICAL SYSTEMS
(SPLICE INSULATION METHODS DETAILS)

NO SCALE

RSP ES-13A DATED APRIL 15, 2016 SUPERSEDES RSP ES-13A DATED OCTOBER 30, 2015 AND STANDARD PLAN ES-13A DATED MAY 20, 2011 - PAGE 491 OF THE STANDARD PLANS BOOK DATED 2010.

REVISED STANDARD PLAN RSP ES-13A

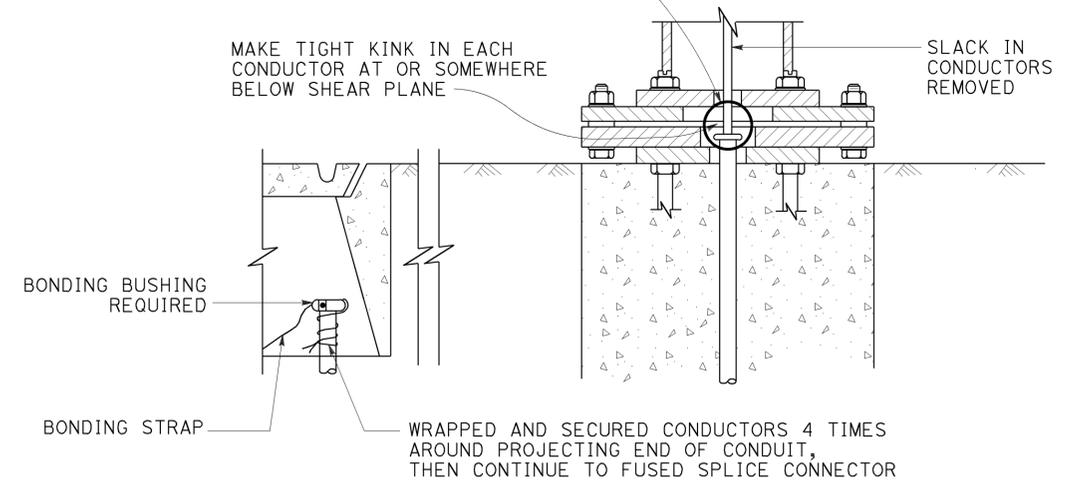
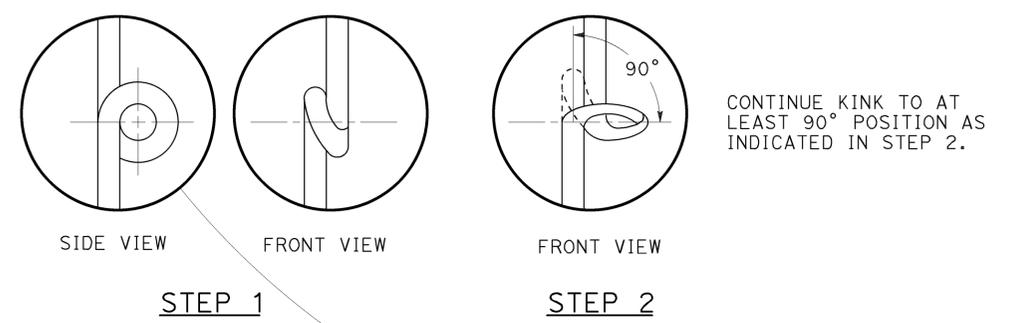
2010 REVISED STANDARD PLAN RSP ES-13A

TO ACCOMPANY PLANS DATED 1-4-16

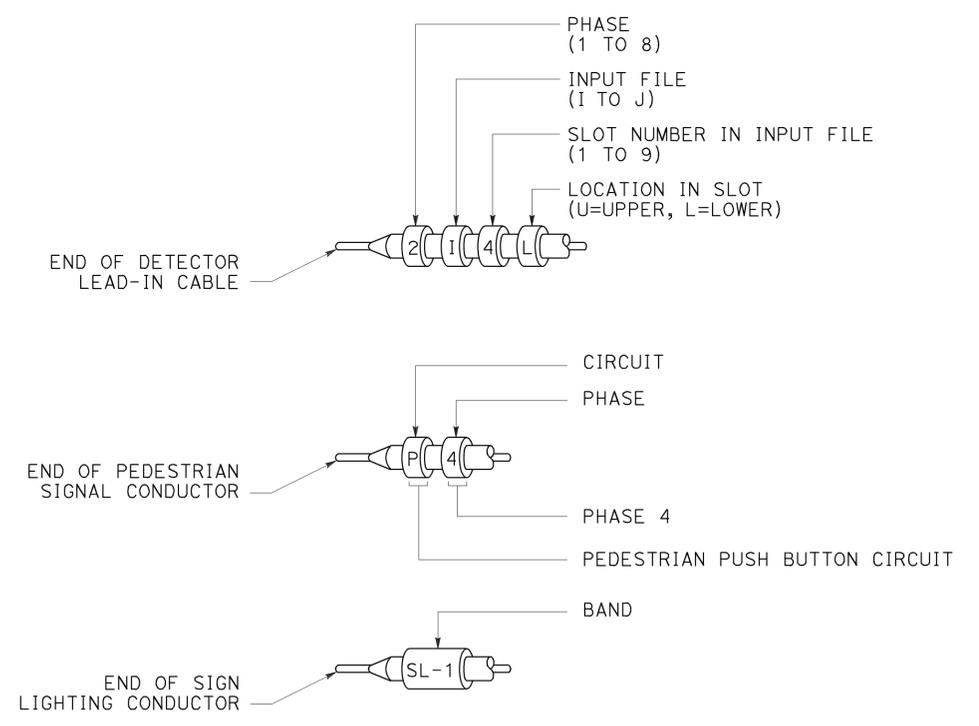
CIRCUIT VOLTAGE	FUSE VOLTAGE RATING	FUSE CURRENT RATING						
		HPS LAMP BALLAST		LOW PRESSURE SODIUM BALLAST	INDUCTION SIGN LIGHTING	SINGLE PHASE (TWO WIRE) TRANSFORMERS (PRIMARY SIDE)		
		70 W	100 W	180 W	85 W	1 KVA	2 KVA	3 KVA
120 V	250 V	5 A	5 A	5 A	5 A	10 A	20 A	30 A
240 V	250 V	5 A	5 A	5 A	5 A	6 A	10 A	20 A
480 V	500-600 V	5 A	5 A	3 A	1 A (SEE NOTE 2)	3 A	6 A	10 A

- NOTES:**
- Primary lines of multiple ballasts shall be provided with fused connectors. Fuse ratings shall be as noted above.
 - See Revised Standard Plan RSP ES-15D, Type SC3 control.

FUSE RATINGS FOR FUSED CONNECTORS



KINKING DETAIL FOR SLIP BASE STANDARDS
DETAIL A



TYPICAL BANDING DETAILS
DETAIL B

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION
**ELECTRICAL SYSTEMS
(FUSE RATING, KINKING AND BANDING DETAIL)**

NO SCALE

RSP ES-13B DATED APRIL 15, 2016 SUPERSEDES STANDARD PLAN ES-13B DATED MAY 20, 2011 - PAGE 492 OF THE STANDARD PLANS BOOK DATED 2010.

2010 REVISED STANDARD PLAN RSP ES-13B