Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	572	1622

REGISTERED CIVIL ENGINEER 1-15-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KENNY HA No. C75502 Exp. 6/30/16 CIVIL STATE OF CALIFORNIA

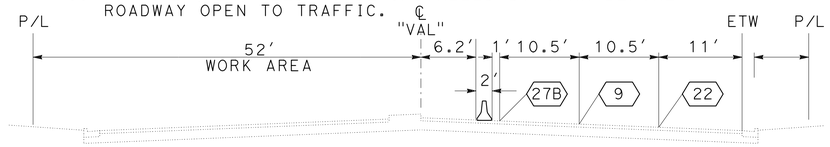
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

CURVE DATA

No. (R)	R	Δ	T	L
3	25′	90°05′35"	25.04′	39.31′
4	25′	89°54′25"	24.96′	39.23′
5	94′	22°48′23"	18.96′	37.42′
6	120′	17°41′04"	18.67′	37.04′
7	100′	22°53′33"	20.25′	39.95′
8	74′	17°46′13"	11.58′	22.97′
9	72′	89°58′57"	71.98′	113.08′
10	40′	89°58′57"	39.99′	62.82′
11	48′	89°58′50"	47.98′	75.38′
12	26.5′	90°01′10"	26.51′	41.64′
13	944′	09°04′56"	75.00′	149.69′
14	933′	09°11′43"	75.00′	149.68′
15	110′	22°48′23"	22.19′	43.78′
16	90′	22°53′33"	18.22′	35.96′
17	62′	89°58′57"	61.98′	97.37′

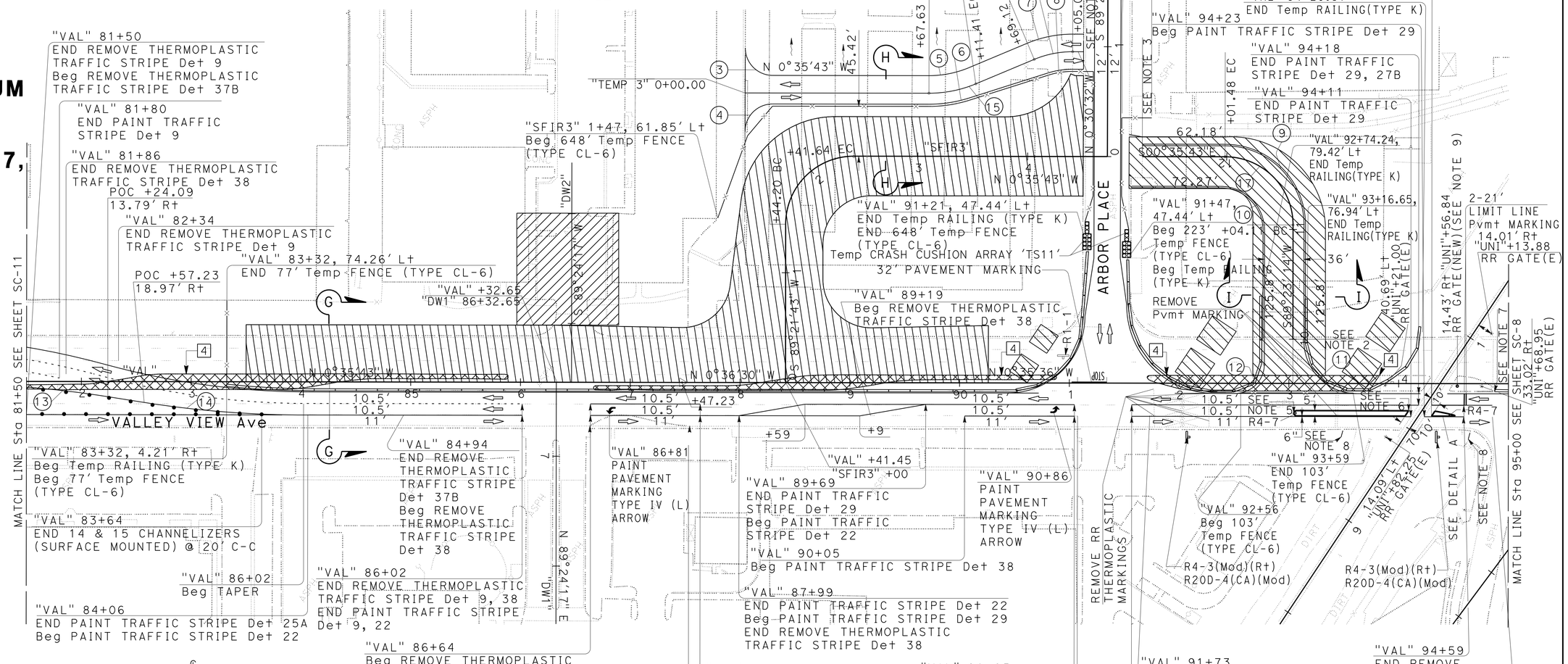
NOTES:

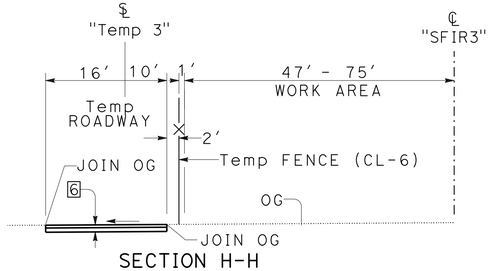
1. CONSTRUCT TEMPORARY ROADWAY PRIOR TO OTHER ROADWAY CONSTRUCTION.
2. "TEMP 2" 10+00.00= 40.17′ Lt "VAL" 93+01.75
3. "TEMP 2" 12+76.88= 31.83′ Rt "ABR" 0+00.05
4. "TEMP 3" 3+15.01= 22.00′ Lt "ABR" 0+95.37
5. 27.14′ Rt "VAL" 93+04.48, Beg CURB (TYPE A1-8)
6. 24.69′ Rt "VAL" 94+09.18, END CURB (TYPE A1-8)
7. 7.27′ Rt "VAL" 94+87.43,Beg Temp RAILING (TYPE k)
8. 6′ PEDESTRIAN BARRICADE (TYPE 1) WITH R9-3A SIGN
9. RR GATE (NEW) NEED TO BE INSTALLED BY UPRR BEFORE ROADWAY OPEN TO TRAFFIC.



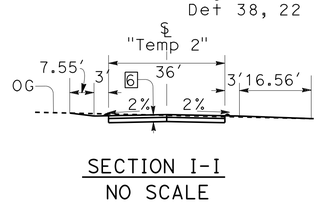
SECTION G-G
NO SCALE

1 ADDED PER ADDENDUM No. 1 DATED MARCH 17, 2016

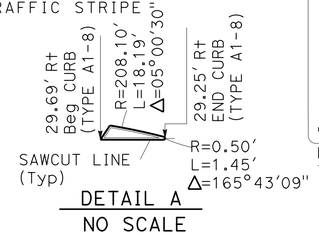




SECTION H-H
NO SCALE



SECTION I-I
NO SCALE



DETAIL A
NO SCALE

APPROVED FOR STAGE CONSTRUCTION AND TRAFFIC HANDLING WORK ONLY

STAGE CONSTRUCTION TRAFFIC HANDLING PLAN

STAGE 1 (PHASE 1)

SCALE: 1" = 50′

SC-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN

FUNCTIONAL SUPERVISOR: RICHARD CHIANG
CALCULATED-DESIGNED BY: ANTOINE NADER
CHECKED BY: KENNY HA
REVISED BY: H. CHEN
DATE REVISED: 7/15/2015

LAST REVISION 05-05-14
DATE PLOTTED => 15-MAR-2016
TIME PLOTTED => 08:26

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	859	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

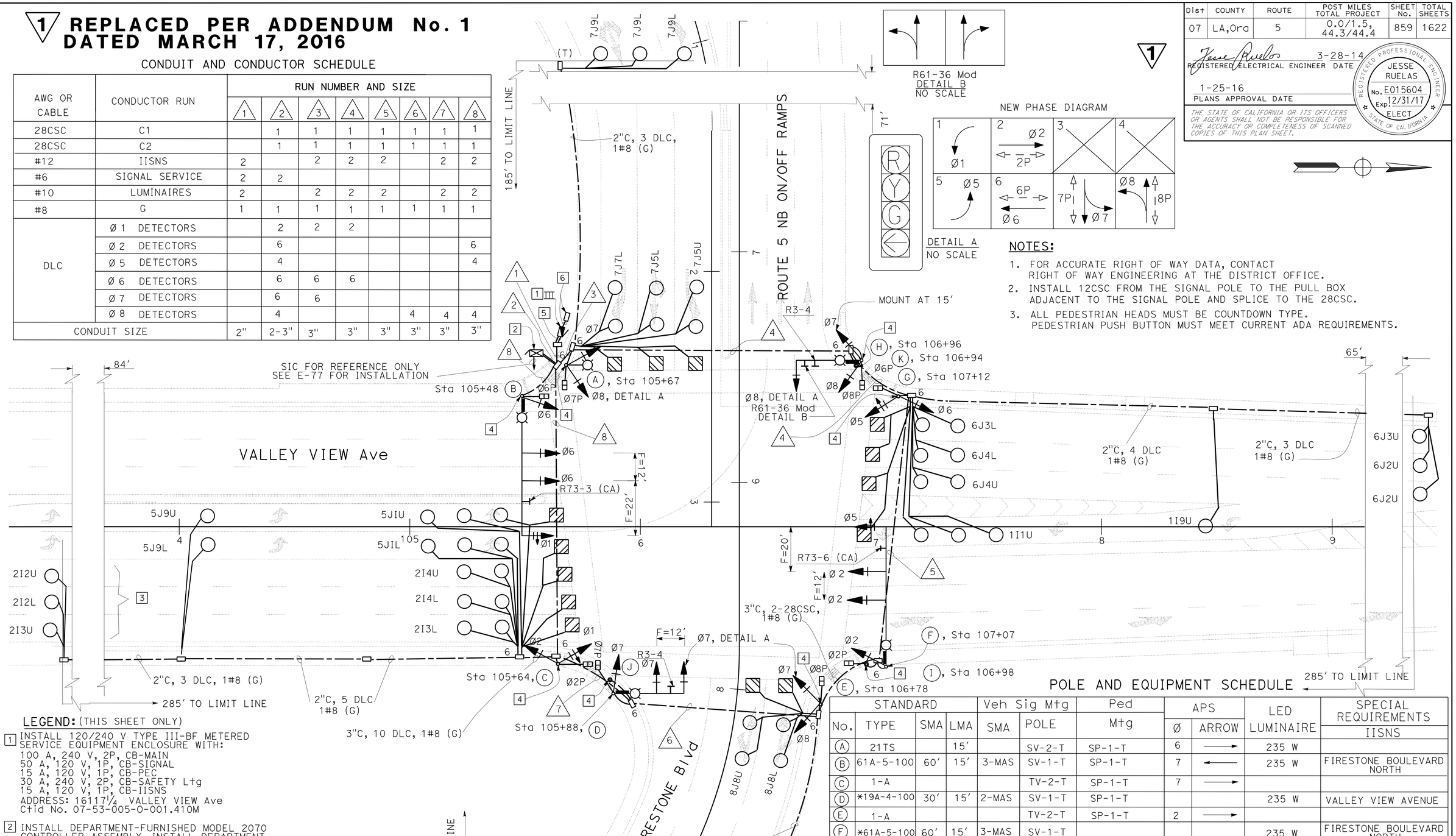
1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT 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.

CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	RUN NUMBER AND SIZE 1	2	3	4	5	6	7	8
28CSC	C1		1	1	1	1	1	1	1
28CSC	C2		1	1	1	1	1	1	1
#12	IISNS	2		2	2	2		2	2
#6	SIGNAL SERVICE	2	2						
#10	LUMINAIRES	2		2	2	2		2	2
#8	G	1	1	1	1	1	1	1	1
DLC	Ø 1 DETECTORS		2	2	2				
	Ø 2 DETECTORS		6						6
	Ø 5 DETECTORS		4						4
	Ø 6 DETECTORS		6	6	6				
	Ø 7 DETECTORS		6	6					
	Ø 8 DETECTORS		4				4	4	4
CONDUIT SIZE		2"	2-3"	3"	3"	3"	3"	3"	3"



POLE AND EQUIPMENT SCHEDULE

STANDARD No.	TYPE	SMA	LMA	Veh Sig Mtg SMA	POLE	Ped Mtg	APS Ø	ARROW	LED LUMINAIRE	SPECIAL REQUIREMENTS IISNS
A	21TS		15'		SV-2-T	SP-1-T	6	→	235 W	
B	61A-5-100	60'	15'	3-MAS	SV-1-T	SP-1-T	7	←	235 W	FIRESTONE BOULEVARD NORTH
C	1-A				TV-2-T	SP-1-T	7	→		
D	*19A-4-100	30'	15'	2-MAS	SV-1-T	SP-1-T			235 W	VALLEY VIEW AVENUE
E	1-A				TV-2-T	SP-1-T	2	→		
F	*61A-5-100	60'	15'	3-MAS	SV-1-T				235 W	FIRESTONE BOULEVARD NORTH
G	1-A				TV-2-T	SP-1-T	8	→		
H	*19A-4-100	30'	15'	1-MAS	SV-1-T SV-1-T	SP-1-T			235 W	VALLEY VIEW AVENUE
I	1-A					TP-1-T	8	←		
J	**PBA						2	←		
K	**PBA						6	←		

* MODIFIED FOUNDATION SEE STRUCTURAL PLANS.
** MODIFIED FOUNDATION SEE SES SHEETS.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. INSTALL 12CSC FROM THE SIGNAL POLE TO THE PULL BOX ADJACENT TO THE SIGNAL POLE AND SPLICE TO THE 28CSC.
3. ALL PEDESTRIAN HEADS MUST BE COUNTDOWN TYPE. PEDESTRIAN PUSH BUTTON MUST MEET CURRENT ADA REQUIREMENTS.

LEGEND: (THIS SHEET ONLY)

1. INSTALL 120/240 V TYPE III-BF METERED SERVICE EQUIPMENT ENCLOSURE WITH:
   100 A, 240 V, 2P, CB-MAIN
   50 A, 120 V, 1P, CB-SIGNAL
   15 A, 120 V, 1P, CB-PEC
   30 A, 240 V, 2P, CB-SAFETY Ltg
   15 A, 120 V, 1P, CB-IISNS
   ADDRESS: 16117¼ VALLEY VIEW Ave
   Ctid No. 07-53-005-0-001.410M
2. INSTALL DEPARTMENT-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY. INSTALL DEPARTMENT-FURNISHED MODEL 170E CONTROLLER, 2070-6B MODEM AND C2 MODEM HARNESSES. INSTALL BATTERY BACK UP SYSTEM WITH DEPARTMENT-FURNISHED COMPONENTS OF BATTERY BACKUP SYSTEM. INSTALL TRAFFIC SIGNAL INTERCONNECT AND WIRELESS DATA SERVICE SYSTEM. (SEE DETAILS ON E-87 AND E-90)
3. INSTALL TYPE E PREFORMED INDUCTIVE LOOP DETECTION.
4. INSTALL APS.
5. INSTALL 2-2"C, 2#6(Sig SERVICE), 2#10(SAFETY Ltg), 2#12(IISNS), 1#8 (G).
6. INSTALL 3"C, PT, CONDUCTORS BY OTHERS, FOR CONTINUATION SEE E-36.

APPROVED FOR ELECTRICAL WORK ONLY **(LOCATION 1)**

SIGNAL AND LIGHTING

SCALE 1" = 20' **E-81**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® **TRAFFIC DESIGN**
FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: KARINE PARTAMIAN
CHECKED BY: JESSE RUELAS
REVISED BY / DATE REVISED

LAST REVISION 09-15-11 | DATE PLOTTED => 15-MAR-2016 | TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	870	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT 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.

POLE AND EQUIPMENT SCHEDULE

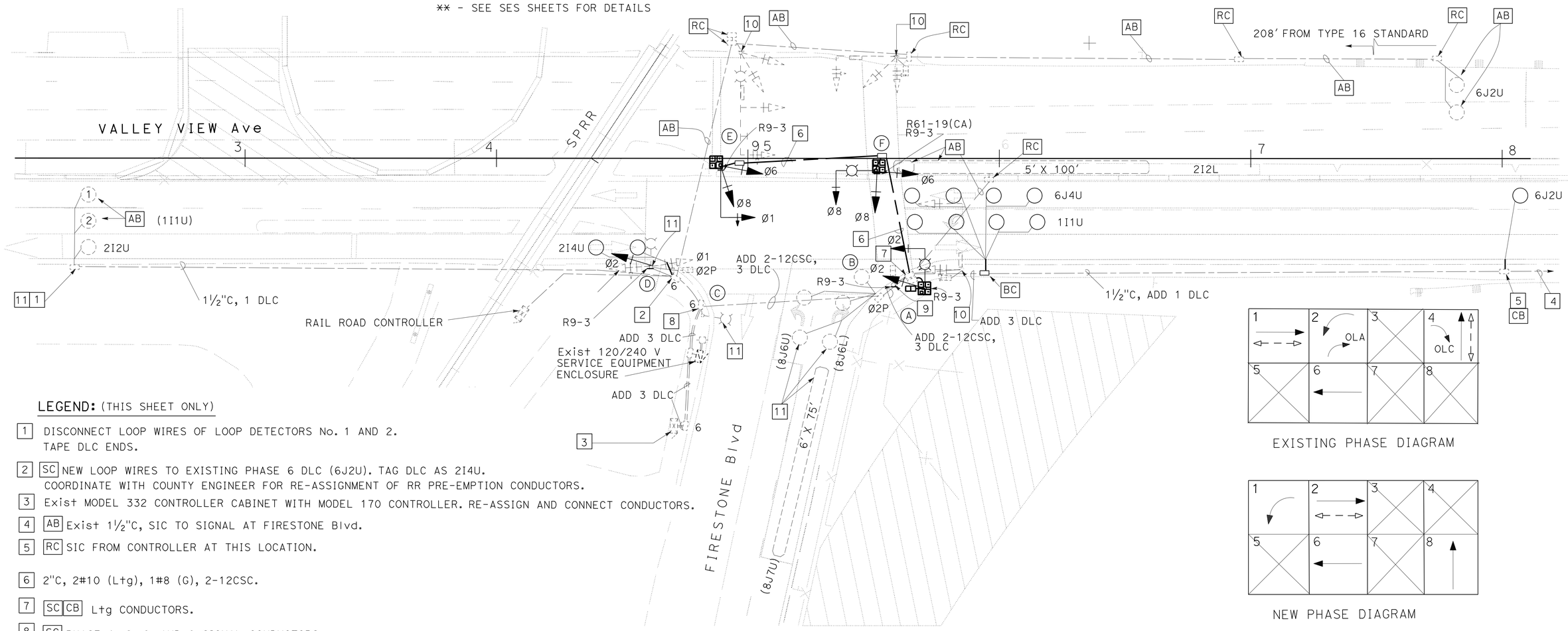
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE. **
2. FOR COMPLETE TRAFFIC SIGNAL REMOVAL SEE SHEET E-78.

	STANDARD			Veh Sig Mtg				Ped SIGNAL		PBA		LUMINAIRE WATTS	SPECIAL REQUIREMENTS
⊗	TYPE	SMA	LMA	Ø	MAST ARM	Ø	POLE	Ø	MTG	Ø	ARROW		
Ⓐ	19-1-100 (N)	15′ (N)	8′ (N)	2	MAT(N)	2	SV-1-T (N)	2P	SP-1-T	2	→	235(LED) (N)	—
Ⓑ	1-7′(R)	—	—	—	—	—	—	4P (R)	TP-1-T (R)	2 4(R)	→	—	—
Ⓒ	15	—	12′	—	—	—	—	—	—	2	←	250(HPS)	—
Ⓓ	15	—	12′	—	—	1 2	SV-2-T (N)	2P	SP-1-T	—	—	250(HPS)	—
** Ⓔ	19-1-100 (N)	20′ (N)	—	1	MAT(N)	1 6 8	SV-2-T (N)	—	—	—	—	—	—
** Ⓕ	19-1-100 (N)	15′ (N)	8′ (N)	8	MAT(N)	6 8	SV-2-T (N)	—	—	—	—	235(LED) (N)	—

(R) - REMOVE (N) - NEW

** - SEE SES SHEETS FOR DETAILS



EXISTING PHASE DIAGRAM

NEW PHASE DIAGRAM

LEGEND: (THIS SHEET ONLY)

1. DISCONNECT LOOP WIRES OF LOOP DETECTORS No. 1 AND 2. TAPE DLC ENDS.
2. SC NEW LOOP WIRES TO EXISTING PHASE 6 DLC (6J2U). TAG DLC AS 2I4U. COORDINATE WITH COUNTY ENGINEER FOR RE-ASSIGNMENT OF RR PRE-EMPTION CONDUCTORS.
3. Exist MODEL 332 CONTROLLER CABINET WITH MODEL 170 CONTROLLER. RE-ASSIGN AND CONNECT CONDUCTORS.
4. AB Exist 1½"C, SIC TO SIGNAL AT FIRESTONE Blvd.
5. RC SIC FROM CONTROLLER AT THIS LOCATION.
6. 2"C, 2#10 (Ltg), 1#8 (G), 2-12CSC.
7. SC CB Ltg CONDUCTORS.
8. SC PHASE 1, 2, 6, AND 8 SIGNAL CONDUCTORS.
9. RC PED HEAD AND PHASE 4 Exist PBA.
10. RC SIGNAL STANDARD COMPLETE.
11. KEEP IN OPERATION FOR THIS STAGE OF CONSTRUCTION.

LEGEND: (THIS SHEET)

STEEL PLATE AND BLOCKS

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

(STAGE 1 PHASE 1)

(S FIRESTONE Blvd/VALLEY VIEW Ave)

APPROVED FOR ELECTRICAL WORK ONLY

1 TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~

SCALE 1" = 20′

E-92

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: KARINE PARTAMIAN JESSE RUELAS
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 09-15-11 | DATE PLOTTED => 15-MAR-2016 | TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	871	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT 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.

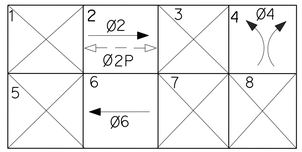
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR EQUIPMENT NOT USED SEE E-79 FOR REMOVAL.
3. RC TEMPORARY SIGNALS, FOUNDATIONS AND EQUIPMENT AT THE END OF STAGE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.

POLE AND EQUIPMENT SCHEDULE

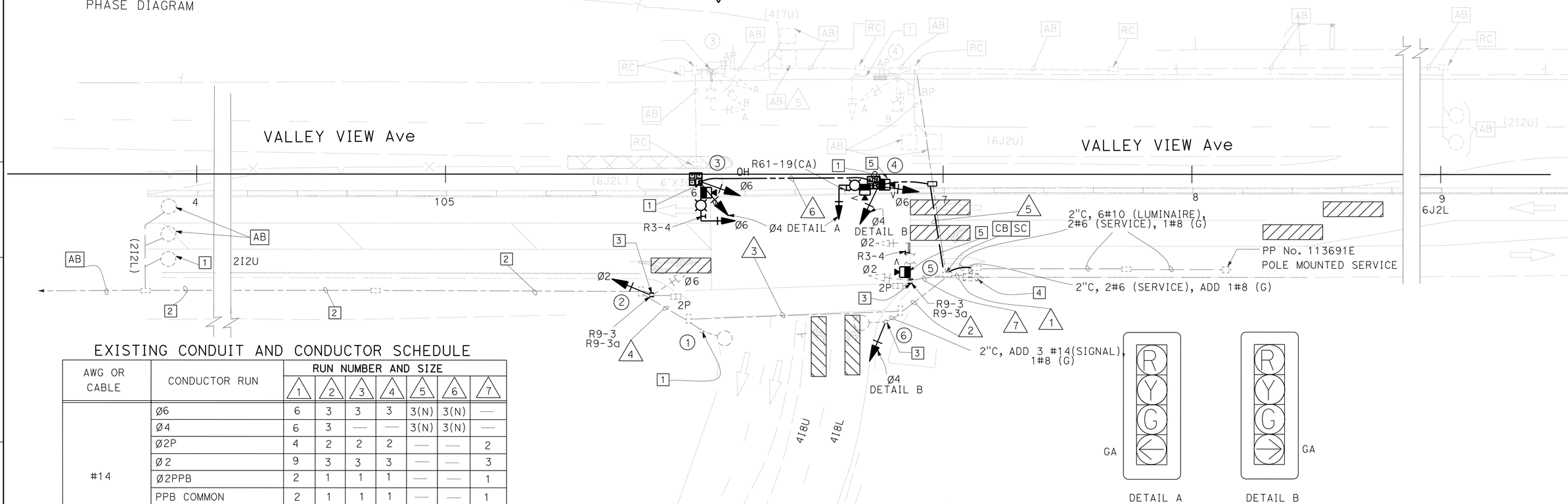
POLE					SCHEDULE					REMARKS
STANDARD					LUMINAIRE	SIGNAL MTG			PBA		STREET NAME SIGN LEGEND
No.	Typ	HEIGHT	SMA	LMA		VEHICLE		Ped	Typ	PHASE	
1	XV	28-6''	—	12'	200 W HPSV	—	—	—	—	—	—
2	I	10'-0"	—	—	—	—	TV-2-T (N)	W-O	B	A	—
3	*19-1-100		15'	8'	235 W LED	1-MAS	SV-2-T				
4	*19-1-100		15'	8'	235 W LED	1-MAS	SV-2-T				
5	17M	28-6''	20'	12'	200 W HPSV	M-2	B-1	W-O	B	B	
6	5	28-6''	—	12'	200 W HPSV	—	SV-1-T (N)	W-O	B	A	—

* SEE SES SHEETS FOR DETAILS.
(N) = NEW



PHASE DIAGRAM

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016



EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	RUN NUMBER AND SIZE						
		1	2	3	4	5	6	7
#14	Ø6	6	3	3	3	3(N)	3(N)	—
	Ø4	6	3	—	—	3(N)	3(N)	—
	Ø2P	4	2	2	2	—	—	2
	Ø2	9	3	3	3	—	—	3
	Ø2PPB	2	1	1	1	—	—	1
	PPB COMMON	2	1	1	1	—	—	1
	SPARES	9	3	3	3	3(N)	3(N)	3
#10	SIGNAL COMMON	3	1	1	1	1(N)	1(N)	1
	LUMINAIRES	—	2	2	—	2(N)	2(N)	2
#8	GROUND	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)	1(N)
DLC 2-#12	Ø2	1	1	1	1	—	—	1
VIVDS CABLE (N)	Ø2, Ø4, Ø6	4(N)				3(N)	1(N)	1(N)
CONDUIT SIZE		2"	2"	2"	2"	3"(N)	OH(N)	2"

(N): NEW

LEGEND: (THIS SHEET)

- STEEL PLATE AND BLOCKS
- 1 KEEP IN OPERATION FOR THIS STAGE OF CONSTRUCTION.
- 2 Exist 1½"C, 1 DLC.
- 3 REUSE THE POLE AND ADJUST THE SIGNAL HEAD LOCATIONS.
- 4 Exist MODEL 332 CONTROLLER CABINET WITH MODEL 170 CONTROLLER. RE-ASSIGN AND CONNECT CONDUCTORS.
- 5 MOUNT CAMERA ON POLE SHAFT PER DETAIL D IN REVISED STANDARD PLANS RSP ES-7R.

(N FIRESTONE/VALLEY VIEW Ave)
(STAGE 1 PHASE 1)

APPROVED FOR ELECTRICAL WORK ONLY

1 TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~

SCALE 1" = 20'

E-93

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: KARINE PARTAMIAN
CHECKED BY: JESSE RUELAS
REVISED BY
DATE REVISED

LAST REVISION 09-15-11 | DATE PLOTTED => 15-MAR-2016 | TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	872	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

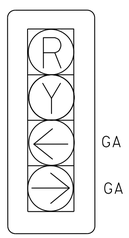
REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT STATE OF CALIFORNIA

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.

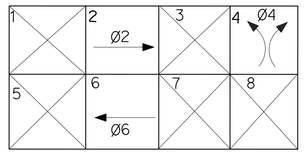
NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR EQUIPMENT NOT USED SEE E-79 FOR REMOVAL.
3. RC TEMPORARY SIGNALS, FOUNDATIONS AND EQUIPMENT AT THE END OF STAGE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016



DETAIL B

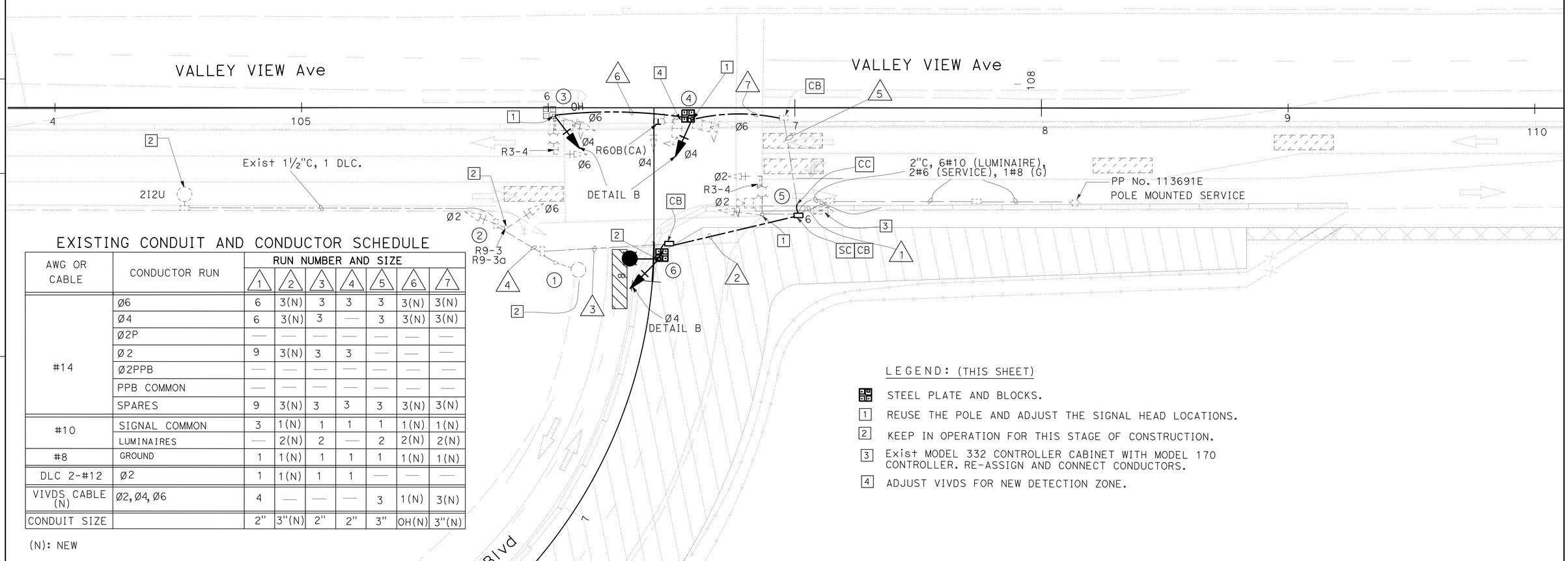


PHASE DIAGRAM

EXISTING POLE SCHEDULE

STANDARD No.	STANDARD Typ	HEIGHT	SMA	LMA	LUMINAIRE	SIGNAL MTG VEHICLE		SIGNAL MTG Ped	PBA Typ	PBA PHASE	STREET NAME SIGN LEGEND
1	XV	28-6''	—		200 W HPSV	—	B-1	—	—	—	—
2	I	10'-0"	—	—	—	—	A-2	W-O	B	A	—
3	*19-1-100		15'	8'	235 W LED	1-MAS	SV-2-T				
4	*19-1-100		15'	8'	235 W LED	1-MAS	SV-2-T				
5	17M	28-6''	20'	12'	200 W HPSV	M-2	B-1	W-O	B	B	FIRESTONE Blvd →
6	*21TS (N)	—	—	8' (N)	235 W LED (N)		SV-1-T (N)				

* SEE SES SHEETS FOR DETAILS.
(N) = NEW



EXISTING CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	RUN NUMBER AND SIZE 1	2	3	4	5	6	7
#14	Ø6	6	3(N)	3	3	3	3(N)	3(N)
	Ø4	6	3(N)	3	—	3	3(N)	3(N)
	Ø2P	—	—	—	—	—	—	—
	Ø2	9	3(N)	3	3	—	—	—
	Ø2PPB	—	—	—	—	—	—	—
	PPB COMMON	—	—	—	—	—	—	—
	SPARES	9	3(N)	3	3	3	3(N)	3(N)
#10	SIGNAL COMMON	3	1(N)	1	1	1	1(N)	1(N)
	LUMINAIRES	—	2(N)	2	—	2	2(N)	2(N)
#8	GROUND	1	1(N)	1	1	1	1(N)	1(N)
DLC 2-#12	Ø2	1	1(N)	1	1	—	—	—
VIVDS CABLE (N)	Ø2, Ø4, Ø6	4	—	—	—	3	1(N)	3(N)
CONDUIT SIZE		2"	3"(N)	2"	2"	3"	OH(N)	3"(N)

(N): NEW

LEGEND: (THIS SHEET)

- STEEL PLATE AND BLOCKS.
- 1 REUSE THE POLE AND ADJUST THE SIGNAL HEAD LOCATIONS.
- 2 KEEP IN OPERATION FOR THIS STAGE OF CONSTRUCTION.
- 3 Exist MODEL 332 CONTROLLER CABINET WITH MODEL 170 CONTROLLER. RE-ASSIGN AND CONNECT CONDUCTORS.
- 4 ADJUST VIVDS FOR NEW DETECTION ZONE.

(N FIRESTONE/VALLEY VIEW Ave) (STAGE 1 PHASE 3)

APPROVED FOR ELECTRICAL WORK ONLY

1 TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~

SCALE 1" = 20'

E-94

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR YI TSAU
CALCULATED-DESIGNED BY KARINE PARTAMIAN
CHECKED BY JESSE RUELAS
REVISED BY
DATE REVISED

LAST REVISION 09-15-11
DATE PLOTTED => 15-MAR-2016
TIME PLOTTED => 08:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	873	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
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 JESSE RUELAS No. E015604 Exp. 12/31/17 ELECTRICAL STATE OF CALIFORNIA

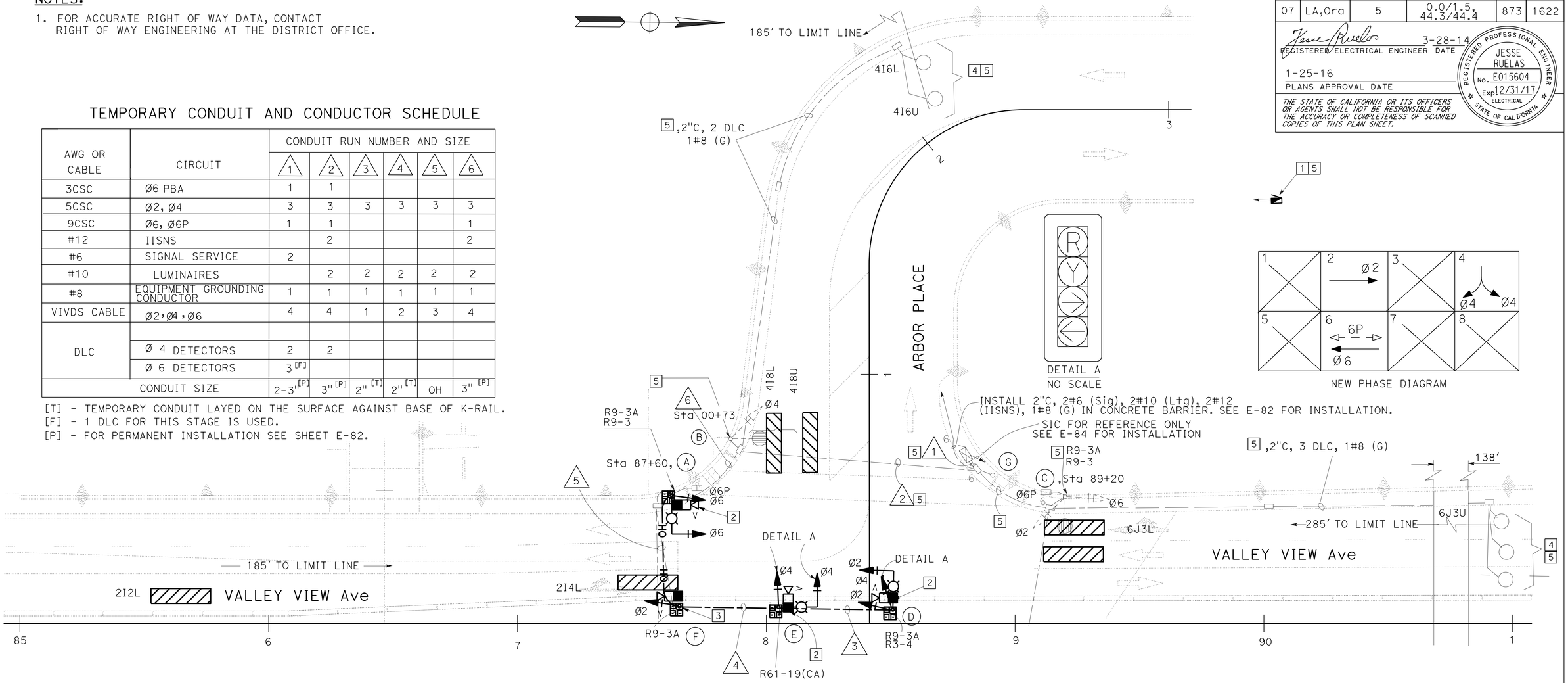
NOTES:

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

TEMPORARY CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CIRCUIT	CONDUIT RUN NUMBER AND SIZE					
		1	2	3	4	5	6
3CSC	Ø6 PBA	1	1				
5CSC	Ø2, Ø4	3	3	3	3	3	3
9CSC	Ø6, Ø6P	1	1				1
#12	IISNS		2				2
#6	SIGNAL SERVICE	2					
#10	LUMINAIRES		2	2	2	2	2
#8	EQUIPMENT GROUNDING CONDUCTOR	1	1	1	1	1	1
VIVDS CABLE	Ø2,Ø4,Ø6	4	4	1	2	3	4
DLC							
	Ø 4 DETECTORS	2	2				
	Ø 6 DETECTORS	3 [F]					
CONDUIT SIZE		2-3" [P]	3" [P]	2" [T]	2" [T]	OH	3" [P]

[T] - TEMPORARY CONDUIT LAYED ON THE SURFACE AGAINST BASE OF K-RAIL.
[F] - 1 DLC FOR THIS STAGE IS USED.
[P] - FOR PERMANENT INSTALLATION SEE SHEET E-82.



1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

POLE AND EQUIPMENT SCHEDULE

STANDARD				Veh Sig Mtg		Ped Sig	APS		LED	SPECIAL
No.	TYPE	SMA	LMA	MAST ARM	POLE	Mtg	Ø	ARROW	LUMINAIRE	REQUIREMENTS
A	19-1-100 *	15'	8'	1-MAS	SV-1-T	SP-1-T	6	→	235 W	
B	21TS **		15'		SV-1-T		6	←	235 W	
C	21TS **		15'		SV-2-T	SP-1-T			235 W	
D	19-1-100 *	15'	8'	1-MAS	SV-2-T				235 W	
E	19-1-100 *	15'	8'	1-MAS	SV-1-T				235 W	
F	21TS *				SV-1-T					
G	PBA **						6	←		

* - TEMPORARY POLE AND EQUIPMENT INSTALLED ON STEEL PLATE AND BLOCKS (SEE SES SHEETS FOR DETAILS).
** - FOR PERMANENT INSTALLATION SEE SHEET E-82.

LEGEND: (THIS SHEET)
STEEL PLATE AND BLOCKS

LEGEND: (THIS SHEET ONLY)

1. 120 / 240 V TYPE III CF METERED. SEE E-82 FOR INSTALLATION.
   SERVICE EQUIPMENT ENCLOSURE WITH:
   100 A, 240 V, 2P, CB-MAIN
   50 A, 120 V, 1P, CB-SIGNAL
   30 A, 240 V, 2P, CB-SAFETY LIGHTING
   20 A, 120 V, 1P, CB-IISNS
   15 A, 120 V, 1P, CB-PEC
   ADDRESS: 14147 ½ ARBOR PLACE
   Ctid: 07-53-005-0-1.320M
2. MOUNT CAMERA ON LUMINAIRE ARM PER DETAIL B IN REVISED STANDARD PLANS RSP ES-7R.
3. MOUNT CAMERA ON POLE SHAFT PER DETAIL D IN REVISED STANDARD PLANS RSP ES-7R.
4. TYPE E PREFORMED INDUCTIVE LOOP DETECTION.
5. FOR PERMANENT INSTALLATION SEE E-82.

(ARBOR PLACE/VALLEY VIEW Ave)
(STAGE 1 PHASE 4)

APPROVED FOR ELECTRICAL WORK ONLY

1

TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~

SCALE 1" = 20'

E-95

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: Y. TSAU
CALCULATED-DESIGNED BY: K. PARTAMIAN
CHECKED BY: J. RUELAS
REVISED BY
DATE REVISED

LAST REVISION 06-23-13
DATE PLOTTED => 15-MAR-2016
TIME PLOTTED => 08:26

BORDER LAST REVISED 7/1/2010
USERNAME => s119140
DGN FILE => 72159uua095.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 1880
PROJECT NUMBER & PHASE 07150001601

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	874	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

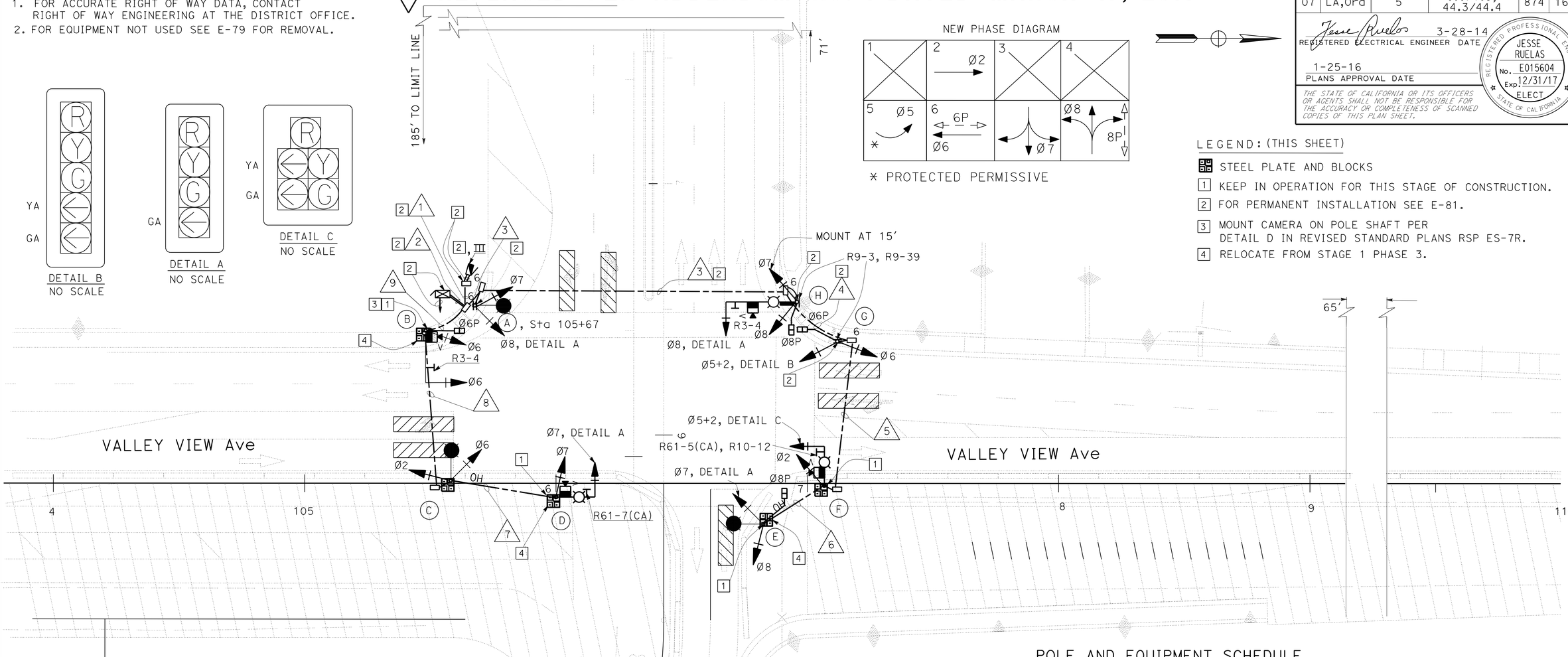
REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT STATE OF CALIFORNIA

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. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR EQUIPMENT NOT USED SEE E-79 FOR REMOVAL.

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016



LEGEND: (THIS SHEET)

- STEEL PLATE AND BLOCKS
- [1] KEEP IN OPERATION FOR THIS STAGE OF CONSTRUCTION.
- [2] FOR PERMANENT INSTALLATION SEE E-81.
- [3] MOUNT CAMERA ON POLE SHAFT PER DETAIL D IN REVISED STANDARD PLANS RSP ES-7R.
- [4] RELOCATE FROM STAGE 1 PHASE 3.

CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CABLE	CONDUCTOR RUN	RUN NUMBER AND SIZE								
		1	2	3	4	5	6	7	8	9
28CSC	C1		1	1	1	1			1	1
28CSC	C2		1	1	1	1	1	1	1	1
#12	IISNS	2		2						
#6	SIGNAL SERVICE	2	2							
#10	LUMINAIRES	2		2	2	2	2	2	2	2
#8	G	1	1	1	1	1	1	1	1	1
VIVDS CABLE (N)	Ø2,Ø5,Ø6,Ø7,Ø8		4	2	2	1		1	1	2
CONDUIT SIZE		2"	2-3"	3"	3"	3"	OH	OH	3"	3"

POLE AND EQUIPMENT SCHEDULE

STANDARD				Veh Sig Mtg		Ped	APS		LED	SPECIAL
No.	TYPE	SMA	LMA	SMA	POLE	Mtg	Ø	ARROW	LUMINAIRE	REQUIREMENTS
A	* 21TS		15'		SV-2-T				235 W	
B	** 19-1-100	20'		1-MAS	SV-1-T(M)	SP-1-T(N)	6	←		
C	** 21TS (N)		8'(N)		SV-2-T(N)				235 W(N)	
D	** 19-1-100	15'	8'	1-MAS	SV-1-T(M)				235 W	R61-7(CA)(N)
E	** 21TS		8'		TV-2-T(N)	SP-1-T(N)	8	→	235 W	
F	** 19-1-100	15'	8'	1-MAS(N)	SV-1-T				235 W	
G	* 1-A				TV-2-T	SP-1-T	8	→		
H	* 19A-4-100	30'	15'	1-MAS	SV-1-T SV-1-T	SP-1-T	6	←	235 W	(IISNS)

* PERMANENT STANDARD AT ULTIMATE LOCATION.
** SEE SES SHEET FOR DETAILS
(N)= NEW
(M)= MODIFY FOR NEW OPERATION

(STAGE 2 PHASE 1)
(N FIRESTONE/VALLEY VIEW Ave)
APPROVED FOR ELECTRICAL WORK ONLY

1

TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~

SCALE 1" = 20'

E-96

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: KARINE PARTAMIAN
CHECKED BY: JESSE RUELAS
REVISED BY / DATE REVISED

LAST REVISION 09-15-11
DATE PLOTTED => 15-MAR-2016
TIME PLOTTED => 08:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	875	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT 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.

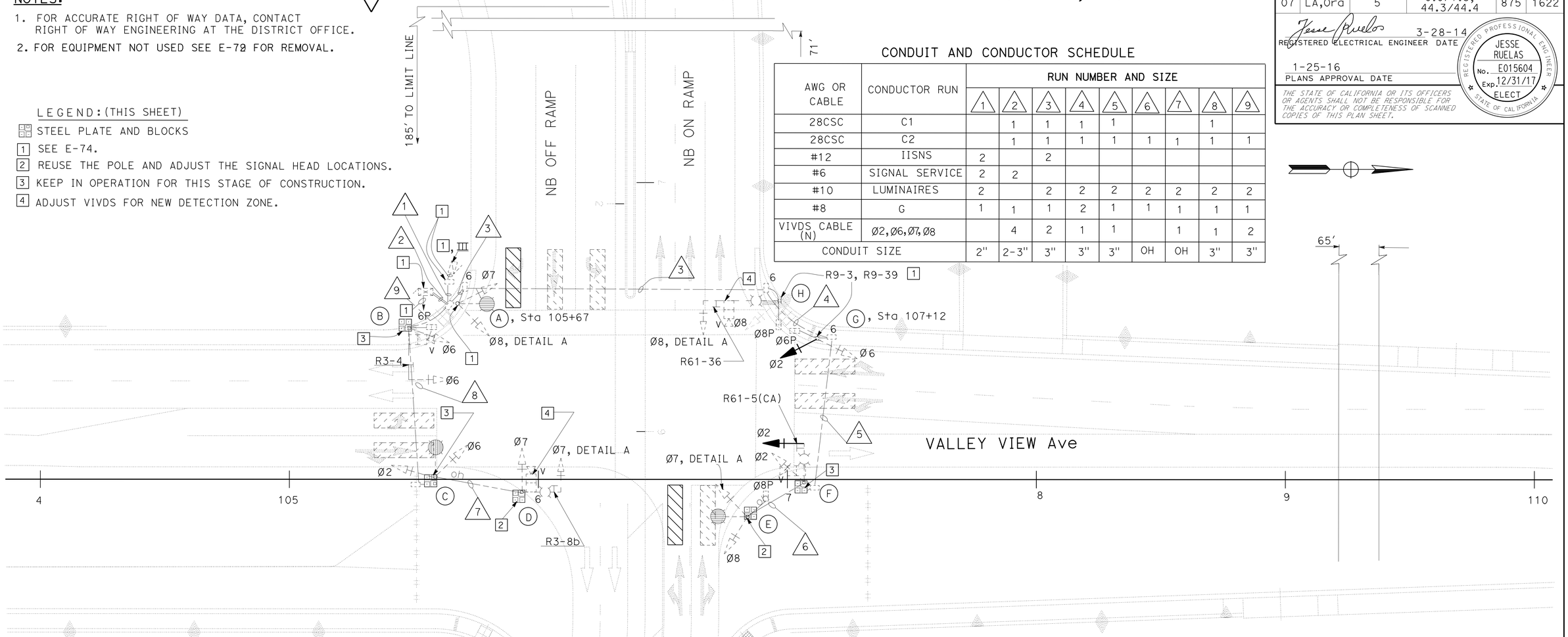
1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. FOR EQUIPMENT NOT USED SEE E-72 FOR REMOVAL.

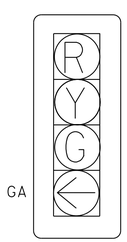
LEGEND:(THIS SHEET)

- STEEL PLATE AND BLOCKS
- [1] SEE E-74.
- [2] REUSE THE POLE AND ADJUST THE SIGNAL HEAD LOCATIONS.
- [3] KEEP IN OPERATION FOR THIS STAGE OF CONSTRUCTION.
- [4] ADJUST VIVDS FOR NEW DETECTION ZONE.



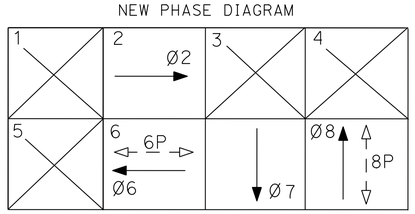
CONDUIT AND CONDUCTOR SCHEDULE

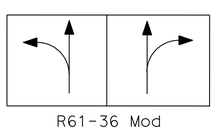
AWG OR CABLE	CONDUCTOR RUN	RUN NUMBER AND SIZE 1	2	3	4	5	6	7	8	9
28CSC	C1		1	1	1	1			1	
28CSC	C2		1	1	1	1	1	1	1	1
#12	IISNS	2		2						
#6	SIGNAL SERVICE	2	2							
#10	LUMINAIRES	2		2	2	2	2	2	2	2
#8	G	1	1	1	2	1	1	1	1	1
VIVDS CABLE (N)	Ø2,Ø6,Ø7,Ø8		4	2	1	1		1	1	2
CONDUIT SIZE		2"	2-3"	3"	3"	3"	OH	OH	3"	3"



DETAIL A
NO SCALE

NEW PHASE DIAGRAM





R61-36 Mod

POLE AND EQUIPMENT SCHEDULE

STANDARD No.	TYPE	SMA	LMA	Veh Sig Mtg SMA	POLE	Ped Mtg	APS Ø	ARROW	LED LUMINAIRE	SPECIAL REQUIREMENTS
A	* 21TS		15'		SV-2-T				235 W	
B	** 19-1-100	20'		1-MAS	SV-1-T	SP-1-T	6	←		
C	** 21TS		8'		SV-2-T				235 W	
D	** 19-1-100	15'	8'	1-MAS	SV-1-T				235 W	R3-8b (N)
E	** 21TS		8'		TV-2-T	SP-1-T	8	←	235 W	
F	** 19-1-100	15'	8'	1-MAS	SV-1-T				235 W	R10-12 (N)
G	* 1-A				TV-2-T	SP-1-T	8	→		
H	* 19A-4-100	30'	15'	1-MAS	SV-1-T SV-1-T	SP-1-T	6	←	235 W	R61-36 (N)

* PERMANENT STANDARD AT ULTIMATE LOCATION.
** SEE SES SHEET FOR DETAILS
(N)= NEW

(STAGE 2 PHASE 2)
(N FIRESTONE/VALLEY VIEW Ave)

APPROVED FOR ELECTRICAL WORK ONLY

1 TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~

SCALE 1" = 20'

E-97

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: KARINE PARTAMIAN
CHECKED BY: JESSE RUELAS
REVISED BY / DATE REVISED

LAST REVISION 09-15-11 | DATE PLOTTED => 15-MAR-2016 | TIME PLOTTED => 08:27

BORDER LAST REVISED 7/2/2010 | USERNAME => s119140 | DGN FILE => 72159uua097.add | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 1880 | PROJECT NUMBER & PHASE 07150001601

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	876	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT STATE OF CALIFORNIA

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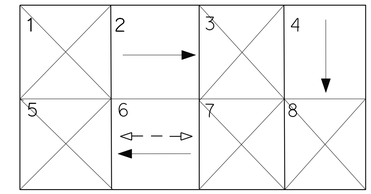
POLE AND EQUIPMENT SCHEDULE

	STANDARD				Veh Sig Mtg				Ped SIGNAL		APS		LUMINAIRE LED	SPECIAL REQUIREMENTS
	⊗	TYPE	SMA	LMA	Ø	MAST ARM	Ø	POLE	Ø	MTG	Ø	ARROW		
+	A	1-A	—	—	—	—	4	TV-1-T	—	—	—	—	—	—
+	B	21TS	—	15′			4	SV-1-T	—	—	—	—	235 W	—
+	C	29A-5-100	55′	15′	6	3 MAS	6	SV-1-T	6	SP-1-T	6	→	235 W	—
**	D	21TS	—	8′	—	—	2 4	SV-2-T	—	—	—	—	235 W	—
**	E	19-1-100	15′	8′	2	MAT	2 4	SV-2-T	—	—	—	—	235 W	—
+	F	21TS	—	15′	—	—	2 6	SV-2-T	6	SP-1-T	6	←	235 W	—

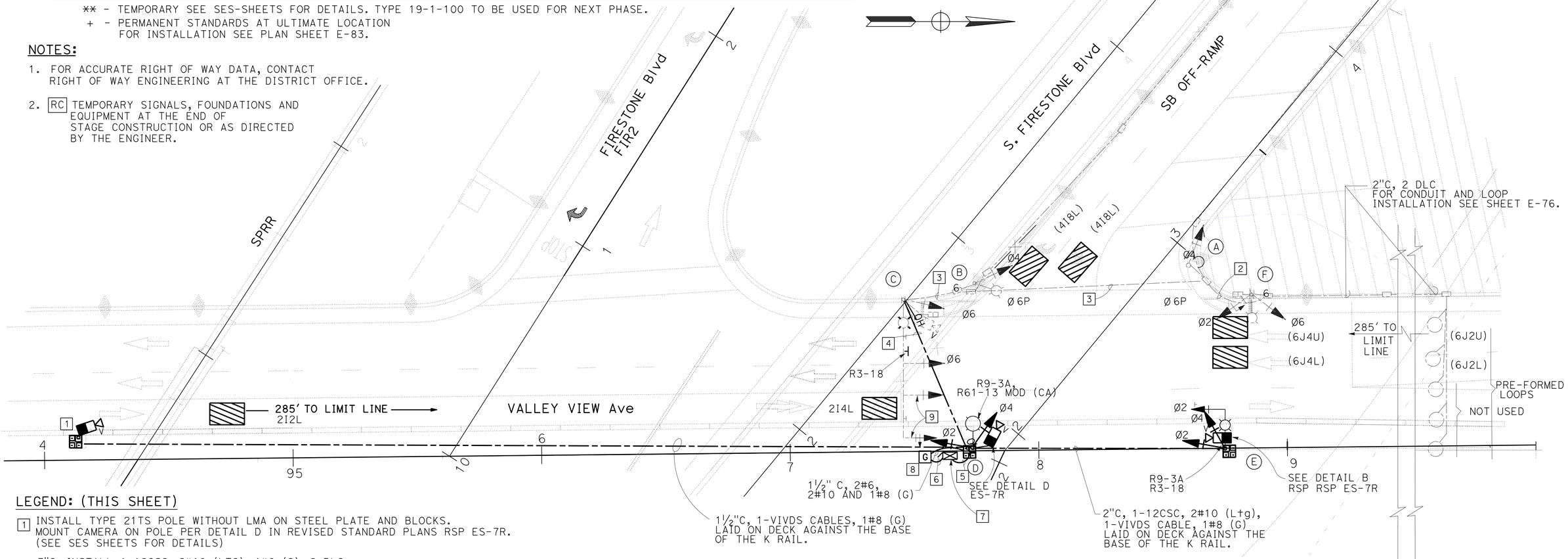
** - TEMPORARY SEE SES-SHEETS FOR DETAILS. TYPE 19-1-100 TO BE USED FOR NEXT PHASE.
+ - PERMANENT STANDARDS AT ULTIMATE LOCATION FOR INSTALLATION SEE PLAN SHEET E-83.



NEW PHASE DIAGRAM

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. RC TEMPORARY SIGNALS, FOUNDATIONS AND EQUIPMENT AT THE END OF STAGE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.



LEGEND: (THIS SHEET)

1. INSTALL TYPE 21TS POLE WITHOUT LMA ON STEEL PLATE AND BLOCKS. MOUNT CAMERA ON POLE PER DETAIL D IN REVISED STANDARD PLANS RSP ES-7R. (SEE SES SHEETS FOR DETAILS)
2. 3"C, INSTALL 1-12CSC, 2#10 (LTG), 1#8 (G), 2 DLC. FOR CONDUIT INSTALLATION SEE SHEET E-83.
3. 3"C, INSTALL 2-12CSC, 2#10 (Ltg), 1#8 (G), 2 DLC. FOR CONDUIT INSTALLATION SEE SHEET E-83.
4. INSTALL OVER HEAD, 2-12CSC, 2#10 (LTG), 1#8 (G), 2 DLC, 1 VIVDS CABLE.
5. 3"C, 3-12CSC, 1#8 (G), 4 VIVDS CABLES, 2 DLC.
6. 1½"C, 2#6 (Sig), 1#8 (G).
7. INSTALL TEMPORARY DEPARTMENT-FURNISHED MODEL 2070 CONTROLLER ASSEMBLY AND MODEL 332 CONTROLLER CABINET. INSTALL BBS. COMPONENTS OF BATTERY BACKUP SYSTEM ARE DEPARTMENT-FURNISHED.
8. INSTALL TEMPORARY PORTABLE GENERATOR, THE CAPACITY MUST BE SIZED TO PROVIDE POWER TO TEMPORARY SIGNAL SYSTEM, PROVIDE BACKUP GENERATOR.
9. COVER SIGNAL HEAD FOR THIS STAGE.

LEGEND: (THIS SHEET)

G GENERATOR

STEEL PLATE AND BLOCKS

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

(STAGE 2 PHASE 1)

(SB OFF-RAMP TO VALLEY VIEW Ave)

APPROVED FOR ELECTRICAL WORK ONLY

1 TEMPORARY SIGNAL AND LIGHTING

~~(TEMPORARY)~~

SCALE: 1" = 20′

E-98

REVISED BY | DATE REVISED
KARINE PARTAMIAN | JESSE RUELAS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: YI TSAU

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

LAST REVISION 09-15-11 | DATE PLOTTED => 15-MAR-2016 | TIME PLOTTED => 08:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	877	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECT 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.

*** POLE AND EQUIPMENT SCHEDULE

STANDARD				Veh Sig Mtg		Ped SIGNAL	APS		LED	SPECIAL
No.	TYPE	SMA	LMA	MAST ARM	POLE	Mtg	Ø	ARROW	LUMINAIRE	REQUIREMENTS
(A)	1-A	—	—	—	TP-1-T	—	—	—	—	—
(B)	*21TS	—	15′	—	SV-1-T	—	—	—	235 W	—
(C)	*29A-5-100	55′	15′	3-MAS	SV-1-T	SP-1-T	6	→	235 W	—
(D)	1-A	—	—	—	TV-2-T	—	2	←	—	—
(E)	*19A-4-100	30′	15′	1-MAS	SV-1-T	SP-1-T	—	—	235 W	VALLEY VIEW AVE
(F)	*26A-4-100	40′	15′	2-MAS	**SV-1-T SV-1-T	SP-1-T	2	→	—	ROUTE 5 SB ON RAMP →
(G)	1-A	—	—	—	TV-1-T	—	—	—	—	—
(H)	*21TS	—	15′	—	SV-2-T	SP-1-T	6	←	235 W	—

*** FOR PERMANENT INSTALLATION, SEE SHEET E-83.

*CONDUIT AND CONDUCTOR SCHEDULE

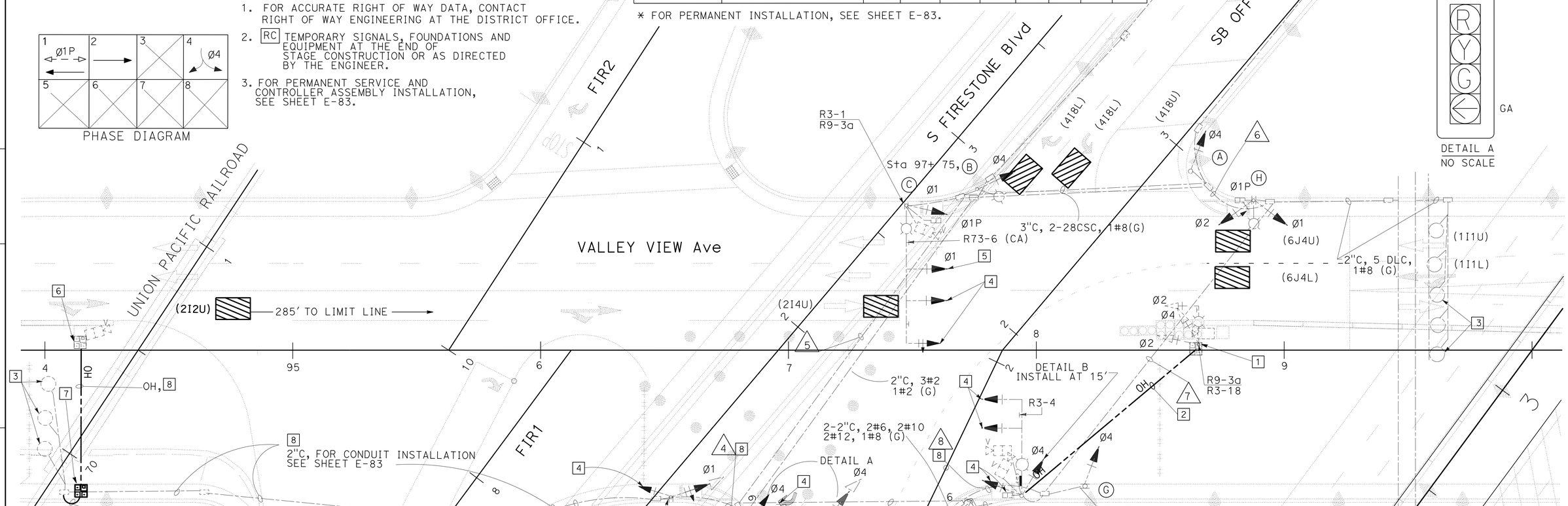
AWG OR CABLE	CIRCUIT	CONDUIT RUN NUMBER AND SIZE							
		1	2	3	4	5	6	7	8
28CSC	C1	—	1	1	1	1	1	1	1
	C2	—	1	1	—	1	1	1	1
#12	IISNS	2	—	2	—	—	—	—	2
#6	SIGNAL SERVICE	2	2	—	—	—	—	—	—
#10	LUMINAIRES	2	—	2	2	2	—	2	2
#8	G	1	1	1	1	1	1	1	1
DLC	Ø 1 DETECTORS	—	2	—	—	—	—	2	2
	Ø 2 DETECTORS	—	3	3	3	—	—	—	—
	Ø 4 DETECTORS	—	3	—	—	—	3	3	3
	Ø 6 DETECTORS	—	3	—	—	—	—	3	3
VIVDS CABLE		—	3	1	—	1	—	—	2
CONDUIT SIZE		2"	2-3"	3"	3"	3"	3"	3"	3"

* FOR PERMANENT INSTALLATION, SEE SHEET E-83.

NOTES:

1. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. RC TEMPORARY SIGNALS, FOUNDATIONS AND EQUIPMENT AT THE END OF STAGE CONSTRUCTION OR AS DIRECTED BY THE ENGINEER.
3. FOR PERMANENT SERVICE AND CONTROLLER ASSEMBLY INSTALLATION, SEE SHEET E-83.

PHASE DIAGRAM



DETAIL A
NO SCALE

LEGEND: (THIS SHEET)

STEEL PLATE AND BLOCKS

LEGEND: (THIS SHEET)

1. TEMPORARY TYPE 19-1-100 WITH LUMINAIRE ON STEEL PLATE AND BLOCKS. (SEE SES SHEET AND E-98 FOR INSTALLATION)
2. 1-12 CSC, 1#8 (G), 2#10 (L+g), 1-VIVDS CABLE OVERHEAD CONDUCTORS.
   RC OVERHEAD CONDUCTORS AT END OF STAGE CONSTRUCTION, OR AS DIRECTED BY THE ENGINEER.
3. DETECTOR LOOPS NOT USED DURING THIS PHASE.
4. COVER SIGNAL HEAD FOR THIS STAGE.
5. TEMPORARILY ATTACH SIGNAL HEAD. SEE DETAIL A.
6. TYPE 21TS POLE WITHOUT LMA ON STEEL PLATE AND BLOCKS. (SEE SES SHEET AND E-98 FOR INSTALLATION)
7. INSTALL TYPE 21TS POLE WITHOUT LMA ON STEEL PLATE AND BLOCKS. (SEE SES SHEETS FOR DETAILS)
8. TEMPORARILY INSTALL 1-VIVDS CABLE AND 1#8(G).

(SB OFF-RAMP TO VALLEY VIEW Ave)
(STAGE 2 PHASE 2)

APPROVED FOR ELECTRICAL WORK ONLY

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

TEMPORARY SIGNAL AND LIGHTING

~~(TEMPORARY)~~

SCALE: 1" = 20′

E-99

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: Y1 TSAU
CALCULATED-DESIGNED BY: KARINE PARTAMIAN
CHECKED BY: JESSE RUELAS
REVISED BY / DATE REVISED

LAST REVISION 09-15-11
DATE PLOTTED => 15-MAR-2016
TIME PLOTTED => 08:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	878	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
JESSE RUELAS
No. E015604
Exp. 12/31/17
ELECTRICAL
STATE OF CALIFORNIA

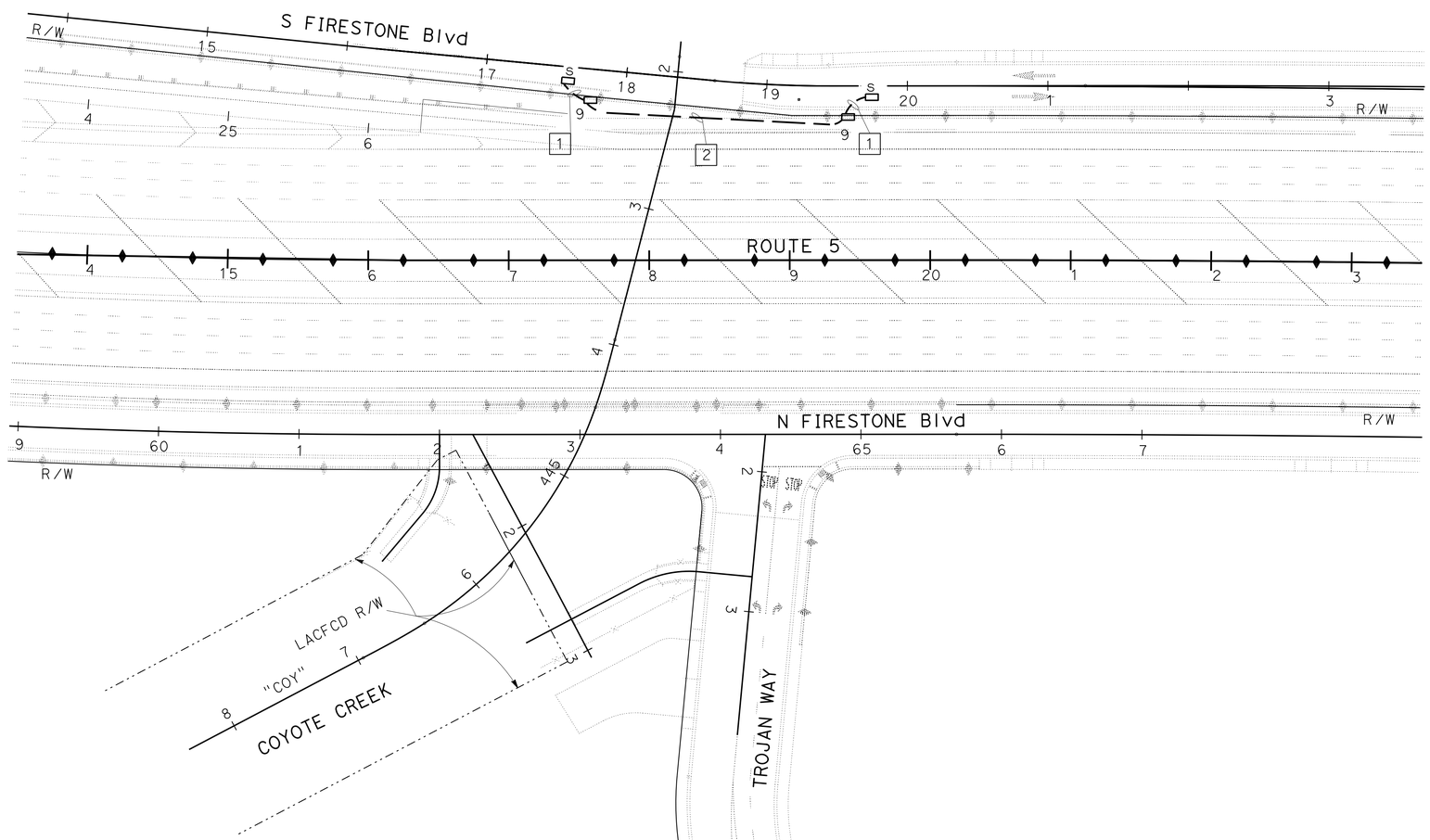
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

LEGEND: (THIS SHEET)

1 INSTALL 2"C, BETWEEN PULL BOX 9 AND SPRINKLER PULL BOX.

2 INSTALL 2"C, SPRINKLER CONTROL CONDUIT IN CONCRETE BARRIER.

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016



NOTE: (THIS SHEET)

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

1 SPRINKLER CONTROL CONDUIT (BRIDGE)

SCALE: 1" = 50'

APPROVED FOR ELECTRICAL WORK ONLY

E-100

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: Yi TSAU
CALCULATED-DESIGNED BY: HOSSAIN KIAN
CHECKED BY: JESSE RUELAS
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 15-MAR-2016
TIME PLOTTED => 08:27

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	881	1622

REGISTERED ELECTRICAL ENGINEER 3-28-14 DATE

1-25-16
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 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.

LIGHTING (TEMPORARY)

SHEET No.	CONDUCTORS (FEET)		POLE (EACH)	LUMINAIRES LED (EACH)	FOUNDATION (POLES, CABINETS) (EACH)	FOUNDATION (POLES, CABINETS) (EACH)	POLE ON CONCRETE BLOCK
	#6	#8	TEMPORARY WOOD POLE	QUANTITY-TYPE	QUANTITY	QUANTITY	QUANTITY
E-55	600	300	4	1-235 W	4	1	-
E-56	600	300	3	3-235 W	5	2	2
E-58	800	400	-	2-235 W	3	3	3
E-59	800	400	-	2-235 W	2	-	2
E-60	1200	600	-	3-235 W	3	-	3
E-61	1200	300	-	2-235 W	1	-	-

LIGHTING (TEMPORARY) (CITY)

SHEET No.	CONDUCTORS (FEET)		POLE (EACH)	LUMINAIRES LED (EACH)	FOUNDATION (POLES, CABINETS) (EACH)	FOUNDATION (POLES, CABINETS) (EACH)	POLE ON CONCRETE BLOCK
	#6	#8	TEMPORARY WOOD POLE	QUANTITY-TYPE	QUANTITY	QUANTITY	QUANTITY
E-57	400	200	1	1-235 W	2	2	1

ELECTRIC SERVICE (IRRIGATION)

SHEET No.	PULL BOXES	CONDUIT 2"	CONDUIT 1"	CONDUCTOR #8 (G)
	EA	LF	LF	LF
E-64	2-No.5 1-No.5 (T)(TR)	400	20	420
E-65	—	—	—	1050
E-66	1	20	20	120

SPRINKLER CONTROL CONDUIT (BRIDGE) 1

SHEET No.	PULL BOXES	SPRINKLER CONTROL PULL BOXES	CONDUIT 2"	CONDUCTOR #8 (G)
	EA	EA	LF	LF
E-100	2-No.5	2-No.9	400	420

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

LIGHTING (UNION PACIFIC RAILROAD)

SHEET No.	PULL BOX	CONDUIT ¾"	CONDUIT 1"	CONDUIT 2"	CONDUCTOR #8 (G)	CONDUCTOR #10 (G)	JUNCTION BOXES	FOUNDATION (CABINET)	SERVICE EQUIPMENT ENCLOSURE	L1-L111 LIGHTING FIXTURE
	EA	LF	LF	LF	LF	LF	EA	EA	EA	EA
E-52	9-No.5	—	—	1000	3000	—	—	1	1 TYPE III-BF	—
E-53	—	—	500	—	—	1800	21	—	—	—
E-54	—	120	—	—	—	360	—	—	—	21

NOTE:

ITEMS SHOWN IN TABLES ARE NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

ELECTRICAL QUANTITIES
E-103

REVISED BY | DATE REVISED
HOSSAIN KIAN | JESSE RUELAS
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR: YI TSAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA,Ora	5	0.0/1.5, 44.3/44.4	885	1622

REGISTERED ELECTRICAL ENGINEER DATE 3/28/14

PLANS APPROVAL DATE 1-25-16

REGISTERED PROFESSIONAL ENGINEER JESSE RUELAS No. E015604 Exp. 12/31/17 ELECTRICAL STATE OF CALIFORNIA

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TEMPORARY SIGNAL AND LIGHTING ~~(TEMPORARY)~~ 1

SHEET No.	DLC LF	LOOP DETECTOR (EACH)	STUB OUT (EACH)	PULL BOXES (EACH)	CONDUITS LF			CONDUCTORS LF					SIGNAL HEADS (EACH)	SIGNAL POLES (EACH)	PPB (EACH)	DEPARTMENT FURNISHED CONTROLLER ASSEMBLY FOUNDATION (EACH)	LUMINAIRES (EACH)	IISNS (EACH)	STEEL PLATE & BLOCK (EACH)	(COVER SIGNAL HEAD) (SHIFT SIGNAL HEAD) (EACH)
		QUANTITY-TYPE			3"	2"	OH	VIVDS CABLE	#14	#8	#10	CSC	QUANTITY-TYPE	QUANTITY-TYPE		QUANTITY-TYPE	QUANTITY-TYPE			
E-92	800′	11-TYPE E	3	3-No. 5		110′					330′	12 CSC 450′	10-SIGNAL	2- 19-3-100			2- 235 W LED	1		
E-93						TYPE 3 85′		990′		320′	640′	9 CSC 190′ 5 CSC 640′ 3 CSC 190′	3- 4 SECTION SIGNAL HEAD 3- 3 SECTION SIGNAL HEAD	1- TYPE 21TS NO LMA 2- 19-3-100			2- 235 W LED		3	
E-94				1-No. 5	35′		70′	148′	315′	261′	105′		8- 4 SECTION SIGNAL HEAD	2- 19-1-100			2- 235 W LED		2	
E-95	54′			1-No. 5 1-No. 6	91′		55′	166′	1476′	146′	438′		3- 4 SECTION SIGNAL HEAD	1- TYPE 21TS					2	3-SHIFT SIGNAL HEAD
E-96				2-No. 5	114′		70′	195′		198′	396′	28 CSC 284′	1- 5 SECTION SIGNAL HEAD 1- 4 SECTION SIGNAL HEAD 8- 3 SECTION SIGNAL HEAD	3- 19-1-100 1- TYPE 21TS	1		3- 235 W LED		4	
E-97								500′					2- 3 SECTION SIGNAL HEAD							4-SHIFT SIGNAL HEAD
E-98	2400′			2-No. 5		TYPE 3 150′		1100′		1000′	1100′	12 CSC 900′	5-SIGNAL	1- 21TS 1- 19-3-100		1- 170 (RELOCATED)	1- 235 W LED			
E-99								150′	720′	120′	240′		4 (COVER SIGNAL HEAD) 1 (SHIFT SIGNAL HEAD)							1-SHIFT SIGNAL HEAD 4-COVER SIGNAL HEAD

1 REPLACED PER ADDENDUM No. 1 DATED MARCH 17, 2016

ELECTRICAL QUANTITIES

E-107

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: YI TSAU

CALCULATED-DESIGNED BY: KARINE PARTAMIAN

CHECKED BY: JESSE RUELAS

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