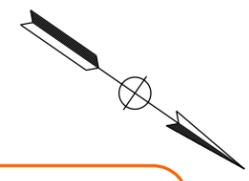


**NOTES: (THIS SHEET)**

- FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- AB** Exist LOOPS WHERE NEW LOOPS ARE CUT.
- SPACING FOR MAINLINE DOUBLE LOOPS IS 20' LEADING EDGE TO LEADING EDGE.
- INSTALL NEW LOOP CONDUIT STUB OUT. NO SPLICING ALLOW IN MEDIAN.

All work for modifying various existing electrical systems at various locations throughout the project is included in one bid item. Call out work for only one electrical system or service (irrigation/booster pump) on each plan view sheet. If multiple electrical systems that are being modified are coincidentally located, call out the work for each system on separate plan view sheets that each depict the same or similar area of the project.



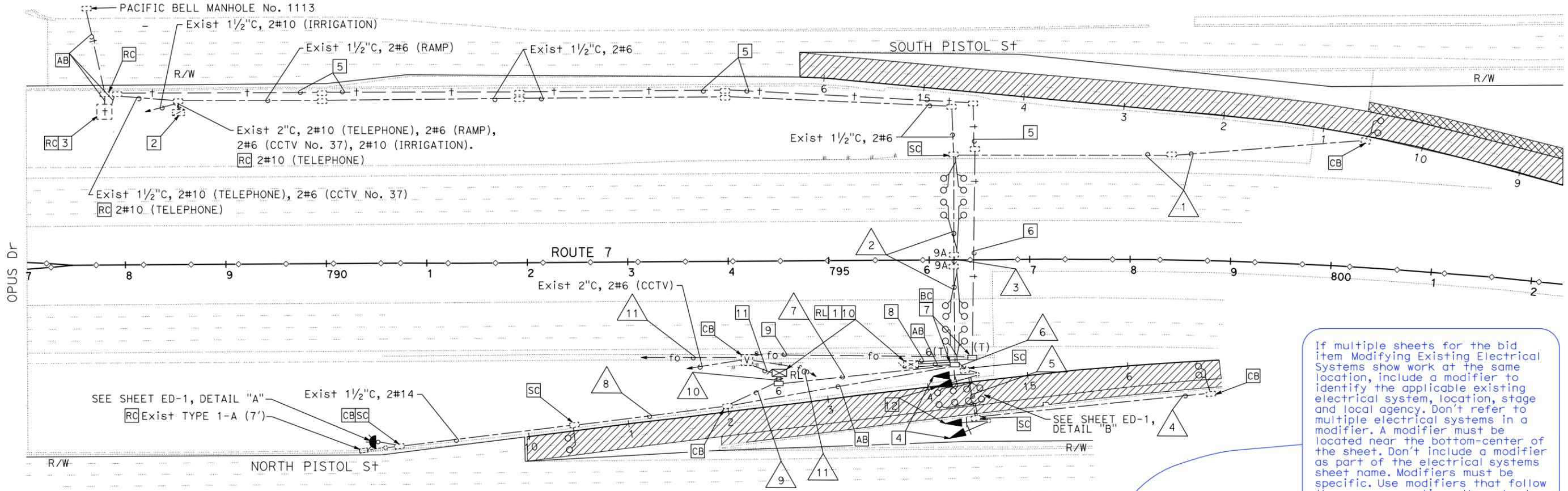
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED ELECTRICAL ENGINEER DATE \_\_\_\_\_

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.

**ELECTRICAL SYSTEMS EXAMPLE F, MODIFYING EXISTING ELECTRICAL SYSTEM**



If multiple sheets for the bid item Modifying Existing Electrical Systems show work at the same location, include a modifier to identify the applicable existing electrical system, location, stage and local agency. Don't refer to multiple electrical systems in a modifier. A modifier must be located near the bottom-center of the sheet. Don't include a modifier as part of the electrical systems sheet name. Modifiers must be specific. Use modifiers that follow the same conventions throughout the project plans.

**CONDUCTOR AND CONDUIT SCHEDULE**

CONDUCTOR DESIGNATION		RUN NUMBER										
		NUMBER OF CONDUCTORS										
		1	2	3	4	5	6	7	8	9	10	11
#6	SERVICE (RAMP)		2	2				2			2	
TYPE	SURVEILLANCE		8	8				16			16	
	DEMAND					1	2	2			2	
B	PASSAGE					1	2	2			2	
	QUEUE									2	2	
DLC	COUNT	2	2	2	2	2	2	4			4	
	TOTAL DLCs PER RUN											
#10	RAMP SIGNAL					3	6	6			6	
	METER ON								2	2	2	
	LOOP WIRE		8									
	SIGNAL COMMON					1	2	2			2	
	Exist 72 SINGLE MODE FIBER OPTIC CABLE											2
	Exist CONDUIT SIZE	1 1/2"	2"	2"	1 1/2"	2"	2 1/2"	1 1/2"				2-4"
	NEW CONDUIT SIZE							3 1/2"	2"	2-3"		

**RC** ALL EXISTING CONDUCTORS. INSTALL NEW CONDUCTORS, UNLESS OTHERWISE NOTED.

**LEGEND: (THIS SHEET)**

- 1 EXISTING MODEL 170 CONTROLLER ASSEMBLY.
- 2 EXISTING 120/240 V, SERVICE EQUIPMENT ENCLOSURE. CTID No. 1369007001818 ADDRESS 3382 PISTOL.
- 3 EXISTING TELEPHONE DEMARCATION CABINET.
- 4 **RC** EXISTING 3-8" SECTION SIGNAL HEAD. INSTALL 3-12" SECTION SIGNAL HEAD WITH BACKPLATE, TV-1-T.
- 5 EXISTING 1 1/2" C, 2#6 (CCTV), 4#18 TELEPHONE CABLE **RC** 4#18 TELEPHONE CABLE.
- 6 EXISTING 2" C, 2#6 (CCTV), 4#18 TELEPHONE CABLE **RC** 4#18 TELEPHONE CABLE.
- 7 **RC** EXISTING PULL BOX. INSTALL NEW PULL BOX.
- 8 EXISTING 2" C, 4#18, 12 SINGLEMODE FIBER OPTIC CABLE. **RR** 12 SINGLEMODE FIBER OPTIC CABLE FOR RELOCATED CONTROLLER CABINET. **RC** 4#18 TELEPHONE CABLE.
- 9 EXISTING 2" C, 2#6 (CCTV), 12 SINGLEMODE FIBER OPTIC CABLE. **RR** 12 SINGLEMODE FIBER OPTIC CABLE FOR RELOCATED CONTROLLER CABINET AND STORE AT SPLICE VAULT.
- 10 TERMINATE 12 SINGLEMODE FIBER OPTIC CABLE IN EXISTING FIBER DISTRIBUTION UNIT FOR RELOCATED CONTROLLER CABINET.
- 11 INSTALL 2" C, REUSE EXISTING 12 SINGLEMODE FIBER OPTIC CABLE.
- 12 **RC** EXISTING 2-8" SECTION SIGNAL HEAD. INSTALL 3-8" SECTION SIGNAL HEAD WITH BACKPLATE, SV-1-T, SIGN 89-2 (24"x10").
- 13 **V** EXISTING FIBER OPTIC SPLICE VAULT WITH SPLICE ENCLOSURE.

AMPERES	VOLTS	POLES	METER	NAMEPLATE DESCRIPTION
30	120	1	YES	NB RAMP
20	120	1	YES	IRRIGATION
20	120	1	YES	TELEPHONE *
20	120	1	YES	IRRIGATION *
30	120	1	YES	CCTV No. 37

**RAMP METERING AT PISTOL STREET ON-RAMP**

APPROVED FOR ELECTRICAL WORK ONLY

**MODIFYING EXISTING ELECTRICAL SYSTEM**

SCALE: 1" = 50'

**E-9**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION - **Caltrans** ELECTRICAL DESIGN

REVISOR: REVISED BY DATE REVISION  
DESIGNER: CALCULATED BY DESIGNED BY  
CHECKER: CHECKED BY  
SUPERVISOR: FUNCTIONAL SUPERVISOR