

CONDUCTOR SCHEDULE										
AWG CIRCUITS	RUNS									
	1	2	3	4	5	6	7	8	9	10
12 CSC	1	2	3	4	5	6	7	8	9	10
3 CSC	1	2	3	4	5	6	7	8	9	10
11 DETECTOR										
12 DETECTOR										
13 DETECTOR										
14 DETECTOR										
15 DETECTOR										
16 DETECTOR										
17 DETECTOR										
18 DETECTOR										
TOTAL D.C.S.	2	5	5	9	11	1	6	6	9	20
LUMINAIRE	2	2	2	2	2	2	2	2	2	4
SIGNAL COMMON	1	1	1	1	1	1	1	1	1	2
TOTAL	3	3	3	3	3	3	3	3	3	6
3 #20 E.V.P. CABLE	1	1	2	2	2					4
12PR #22 I.C. (2" C)							1	1	1	
CONDUIT SIZE	1-3"	1-3"	1-3"	1-3"	1-3"	1-3"	1-2"	1-2"	1-2"	2-4"
(N)=NEW, (E)=EXISTING	(N)	(N)	(N)	(N)	(E)	(E)	(E)	(E)	(E)	(E)

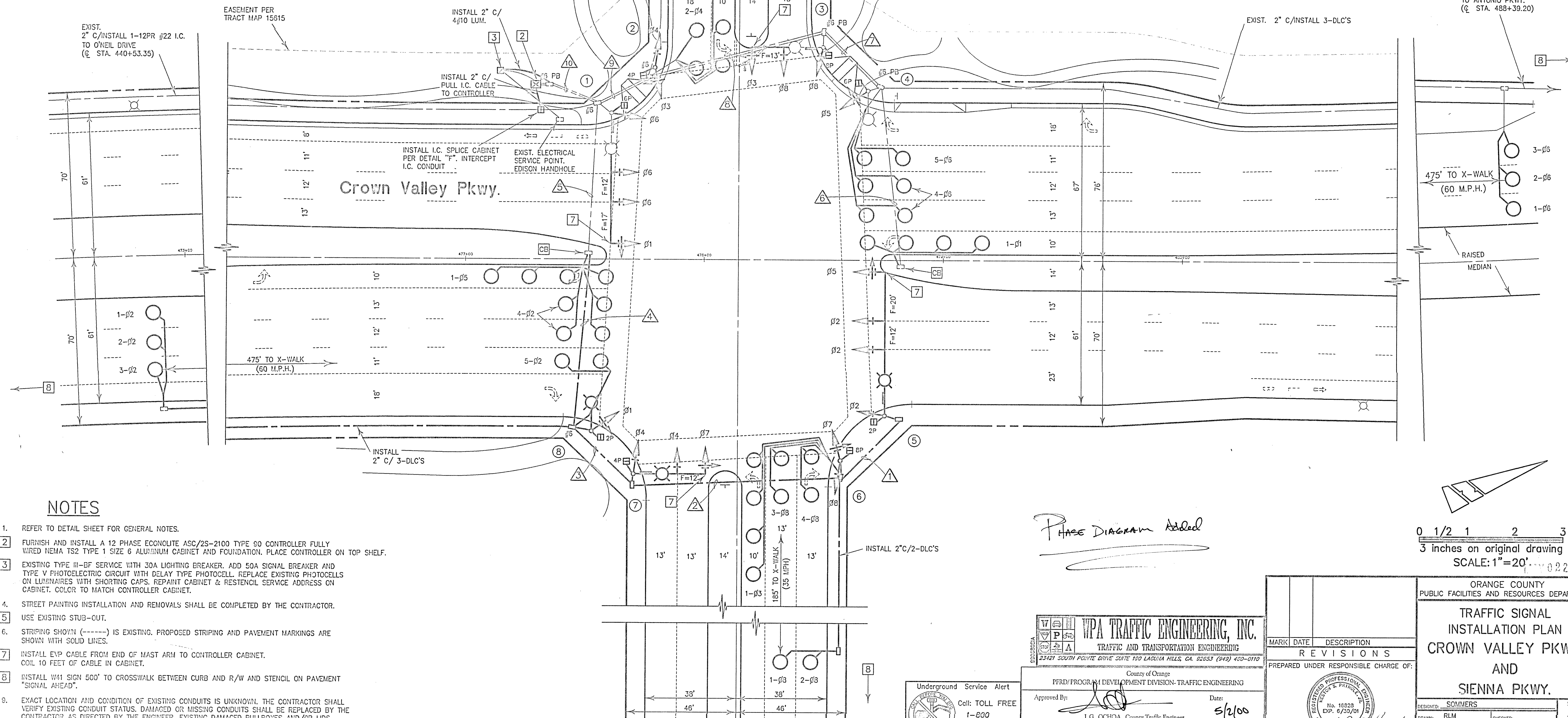
DETECTOR SCHEDULE		
SENSOR #	UNIT	LOOP DETECTORS
1	1	1-β5
2	1	1-β2
3	1	1-β2
4	1	1-β1
5	1	1-β6
6	1	1-β6
7	1	1-β7
8	1	1-β4
9	1	1-β3
10	1	1-β3
11	1	1-β3
12	1	1-β3
	2	2-β8
	3	3-β8
	4	4-β8
	5	5-β8
	6	6-β8
	7	7-β8
	8	8-β8
	9	9-β8
	10	10-β8
	11	11-β8
	12	12-β8

* - DETECTOR LOOP LOCATIONS SHALL BE APPROVED BY ENGINEER IN FIELD PRIOR TO INSTALLATION. ALL DETECTOR UNITS SHALL BE RACK MOUNTED, AND DUAL CHANNEL.

PROVIDE A FOURTEEN (14) SLOT DETECTOR RACK WITH DETECTOR CARDS

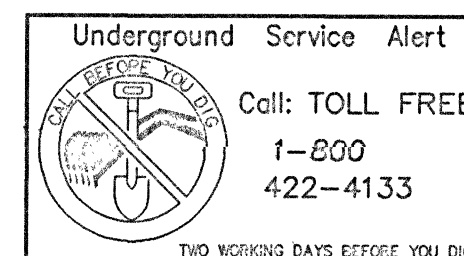
POLE							SCHEDULE						
No.	TYPE	STANDARD			LUMINAIRE HPSV	R.S.N.S. LEGEND	SIGNAL MOUNTING			PED PUSH BTN		REMARKS	
		HEIGHT	SIG.M.A.	LUM.M.A.			VEHICLE	PED	PHASE	ARROW			
1	29-5-80 (E)	9.1 (30')	16.7 (55')	4.6 (15')	250 W (E)	Sienna	MAS LT	MAS 2ea	SV-1-T	SP-1-CS	4	←	
2	1-A	3.05 (10')	-	-	-	-	-	-	TV-2-T	SP-1-CS	6	→	
3	19-4-80 (E)	9.1 (30')	9.1 (30')	3.6 (12') (E)	250 W (E)	Crown Valley	MAS LT	MAS	SV-1-T	SP-1-CS	6	←	
4	15 (E)	9.1 (30')	-	3.6 (12') (E)	250 W (E)	-	-	-	SV-1-T	SP-1-CS	8	→	
5	19-5-129	9.1 (30')	16.8 (55')	4.6 (15')	250 W	Sienna	MAS LT	MAS 2ea	SV-1-T	SP-1-CS	8	←	
6	1-A	3.05 (10')	-	-	-	-	-	-	TV-2-T	SP-1-CS	2	→	
7	19-4-129	9.1 (30')	9.1 (30')	3.6 (12') (E)	250 W	Crown Valley	MAS LT	MAS	SV-1-T	SP-1-CS	2	←	
8	15	9.1 (30')	-	3.6 (12') (E)	250 W	-	-	-	SV-1-T	SP-1-CS	4	→	

- EQUIPMENT IS NEW EXCEPT WHERE SHOWN: (E)=EXISTING.
- ALL NEW POLES ARE PER CALTRANS PLANS DATED JULY, 1999.



NOTES

- REFER TO DETAIL SHEET FOR GENERAL NOTES.
- FURNISH AND INSTALL A 12 PHASE ECONOLITE ASC/25-2100 TYPE 90 CONTROLLER FULLY WIRED NEMA TS2 TYPE 1 SIZE 6 ALUMINUM CABINET AND FOUNDATION. PLACE CONTROLLER ON TOP SHELF.
- EXISTING TYPE III-BF SERVICE WITH 30A LIGHTING BREAKER. ADD 50A SIGNAL BREAKER AND TYPE V PHOTOELECTRIC CIRCUIT WITH DELAY TYPE PHOTOCCELL. REPLACE EXISTING PHOTOCCELLS ON LUMINAIRES WITH SHORTING CAPS. REPAINT CABINET & RESTENCIL SERVICE ADDRESS ON CABINET. COLOR TO MATCH CONTROLLER CABINET.
- STREET PAINTING INSTALLATION AND REMOVALS SHALL BE COMPLETED BY THE CONTRACTOR.
- USE EXISTING STUB-OUT.
- STRIPING SHOWN (-----) IS EXISTING. PROPOSED STRIPING AND PAVEMENT MARKINGS ARE SHOWN WITH SOLID LINES.
- INSTALL E.V.P. CABLE FROM END OF MAST ARM TO CONTROLLER CABINET. COIL 10 FEET OF CABLE IN CABINET.
- INSTALL W41 SIGN 500' TO CROSSWALK BETWEEN CURB AND R/W AND STENCIL ON PAVEMENT "SIGNAL AHEAD".
- EXACT LOCATION AND CONDITION OF EXISTING CONDUITS IS UNKNOWN. THE CONTRACTOR SHALL VERIFY EXISTING CONDUIT STATUS. DAMAGED OR MISSING CONDUITS SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. EXISTING DAMAGED PULLBOXES AND/OR LIDS SHALL ALSO BE REPLACED.



WPA TRAFFIC ENGINEERING, INC.
TRAFFIC AND TRANSPORTATION ENGINEERING
23421 SOUTH POINTE DRIVE SUITE 100 LAGUNA HILLS, CA 92653 (949) 400-0110

County of Orange
PFDD/PROGRAM DEVELOPMENT DIVISION-TRAFFIC ENGINEERING

Approved By: *[Signature]* Date: 5/2/00
I.G. OCHOA, County Traffic Engineer

THIS PLAN IS SIGNED BY FRED T. E. FOR CONCEPT AND ADHERENCE TO COUNTY TRAFFIC SIGNALS, SIGNING AND STRIPING STANDARDS AND REQUIREMENTS ONLY. FRED T. E. IS NOT RESPONSIBLE FOR DESIGN ASSUMPTIONS OR ACCURACY.

ORANGE COUNTY
PUBLIC FACILITIES AND RESOURCES DEPARTMENT

**TRAFFIC SIGNAL
INSTALLATION PLAN
CROWN VALLEY PKWY.
AND
SIENNA PKWY.**

DESIGNED: SOMMERS
DRAWN: RLM
SCALE: 1"=20'
DATE: 5/1/00
CHECKED: *[Signature]*
DRAWING NO.: *[Blank]*

SHEET
18
OF 20