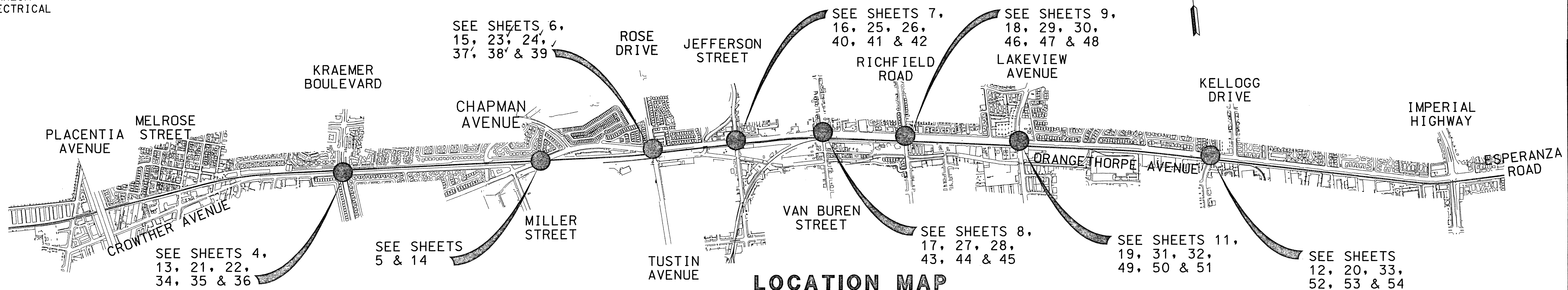


along the

KRAEMER BOULEVARD TO KELLOGG DRIVE
FEDERAL PROJECT NO.: STPLR-5269(015)

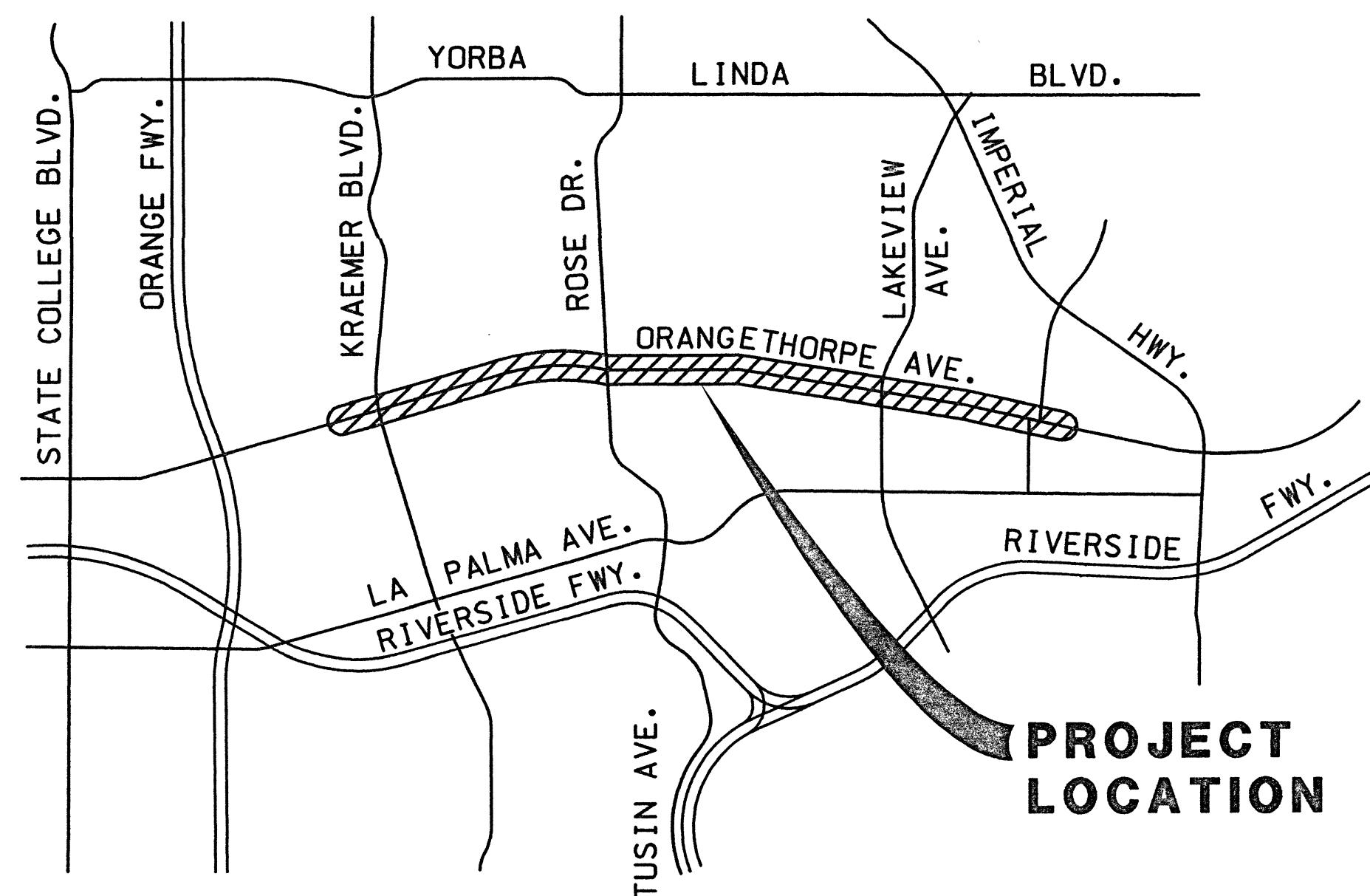
<u>INDEX TO SHEETS</u>		
<u>SHEET</u>	<u>DESCRIPTION</u>	<u>DWG. NO.</u>
1	TITLE SHEET	T-1
2 - 3	CONSTRUCTION DETAILS	C-1 & C-2
4 - 12	STREET IMPROVEMENTS	RP-1 TO RP-9
13 - 20	SIGNING & STRIPING	SS-1 TO SS-8
21 - 33	TRAFFIC SIGNAL MODIFICATIONS	TS-1 TO TS-13
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LOCATION MAP

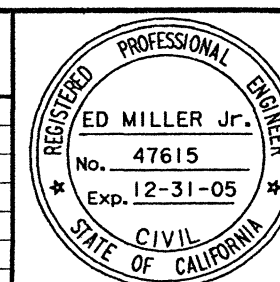
1. CONTRACTOR TO NOTIFY MR. RICK BICKER OR MR. TIM HATCH OF METROPOLITAN WATER DISTRICT WATER SYSTEMS OPERATIONS GROUP, TELEPHONE (714) 577-5084, AT LEAST TWO WORKING DAYS (MONDAY THROUGH THURSDAY) PRIOR TO ANY WORK IN THE VICINITY OF MWD FACILITIES.
2. WORK SHALL CONFORM TO THE APWA STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, THE CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND STANDARD PLANS, LATEST EDITIONS AND APPLICABLE REQUIREMENTS AND STANDARDS OF THE AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION. THE STANDARD PLANS AND SPECIFICATIONS SHALL BE CONSIDERED A PART OF THE IMPROVEMENT PLANS AND THE CONTRACTOR SHALL HAVE THEM ON THE JOB SITE AT TIME OF CONSTRUCTION.
3. CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN APPROPRIATE PERMITS AND LICENSES FROM THE CITY OF PLACENTIA, THE COUNTY OF ORANGE, BNSF AND OTHER GOVERNING JURISDICTIONS PRIOR TO ANY CONSTRUCTION OR EXCAVATION WITHIN R/W OR EASEMENTS.
4. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER'S OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
5. PRIOR TO ANY EXCAVATION THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY AND OIL COMPANIES IN THE LOCAL AREA AT LEAST 48 HOURS IN ADVANCE OF ANY WORK TO BE PERFORMED.

6. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS BUT NO GUARANTY IS MADE THAT ALL SUBSTRUCTURES ARE SHOWN OR THAT THE LOCATIONS SHOWN ARE EXACT. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ALL UTILITY LINES INCLUDING THOSE NOT OF RECORD OR THOSE NOT SHOWN.
7. TRAFFIC CONTROL AND SAFETY SHALL BE MAINTAINED BY THE CONTRACTOR. SIGNS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR RELOCATED WITHOUT APPROVAL OF THE CITY ENGINEER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR IN ADVANCE OF SUCH REMOVAL OR RELOCATION. APPROPRIATE TEMPORARY BARRICADES, SIGNS, ETC., SHALL BE INSTALLED TO THE SATISFACTION OF THE CITY ENGINEER.
8. CONTRACTOR SHALL MAINTAIN ALL OVERHEAD CLEARANCES FROM EXISTING ELECTRICAL LINES.
9. PROTECT LATERALS SEWER, WATER, GAS, ELECTRICAL CONDUIT MUST TO PROTECT AND IS THE RESPONSIBILITY OF CONTRACTOR SHOWN ON PLANS OR NOT.



VICINITY MAP

R E F E R E N C E S	
Bench Marks	Standard Plans
Field Notes	Utility Plans
	Sewer Plans



PREPARED BY:
KFM ENGINEERING, INC.
26672 Towne Centre Drive, Suite 300
Foothill Ranch, California 92610
Ph: 949.580.3838 fax: 949.580.3837
[Signature] 9/15/04
R. C. F. NO. 47615 DATE

DEPARTMENT OF PUBLIC WORKS	
ENGINEERING DIVISION	
Drawn By:	
Designed By:	
Recommended:	
APPROVED WARREN C. SIECKE R.C.E. NO. 18707 EXP. 6-30-0	
 	
CITY ENGINEER R.C.E. NO. 18707	DATE

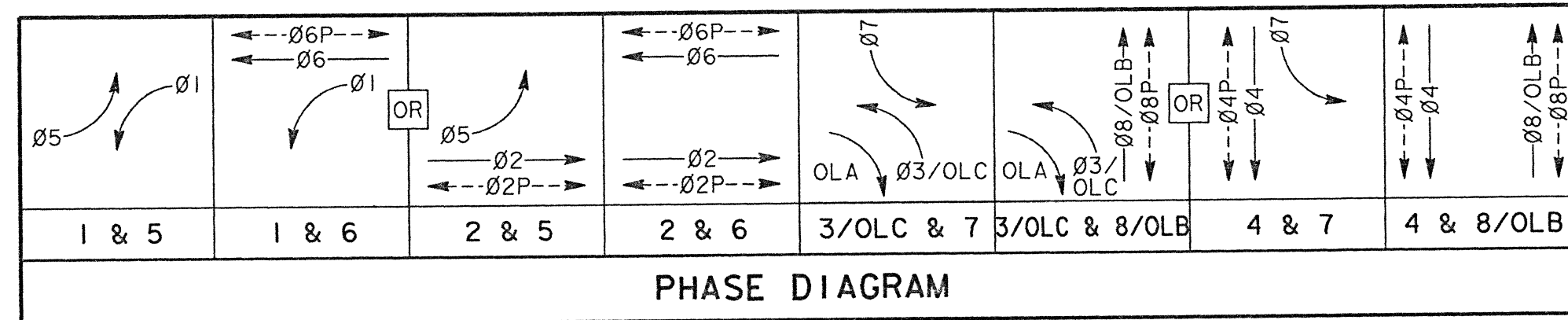
TITLE SHEET

CITY OF PLACENTIA

DRAWING NO.

T-1

PAGE 1 OF 54



CONDUCTOR SCHEDULE											
AWG	CIRCUIT	RUN NUMBER									
		1	2	3	4	5	6	7	8	9	10
#14	Ø1	3	3	3	3	3	3	3	6		
	Ø2					3	3	3	3		
	Ø3					3	3	3	3		
	OLB			3					3		
	Ø4		3	3	3			3	6		
	Ø5				3	3	3		3		
	Ø6	3	3	3	3				6		
	Ø7				3	3	3	3	3		
	Ø8					3	3		3	3	
	OLC			3					3		
	Ø4 PED	2	2	2	2			2	2		
	Ø6 PED	2	2	2	2				2		
	Ø8 PED			2	2	2	2		2		
	Ø4 PPB	1	1	1	1			1	1		
#12	Ø6 PPB		1	1					1		
	Ø8 PPB									1	
	PPB COMMON	1	1	1	1	1	1	1	1	1	1
	QUAD GATE LOOP DETECTION OUTPUT				4	4			4	4	4
	RR PRE-EMPTION				8	8			8	8	8
	SPARES	3	3	3	3	3	3	3	3	3	3
	TOTAL #14	13	22	25	42	43	15	25	64	21	21
	I. S. N. S.	2	2	2	2	2	2	2	2		
	CAMERA POWER	2	2	2	2	2	2	2	2		
	TOTAL #12	4	4	4	4	4	4	4	4		
	LUMINAIRE	2	2	2	2	2	2	2	2		
	SIGNAL COMMON	1	1	1	1	1	1	1	1	1	1
	TOTAL #10	3	3	3	3	3	3	3	3	1	1
#10	Ø2 DET										
	Ø4 DET		1	1							
	Ø6 DET										
	Ø8 DET										
	TOTAL DLC		1	1	3	2			1	4	1
	Ø2 DET										
DLC	Ø4 DET										
	Ø6 DET										
	Ø8 DET										
	TOTAL DLC										
	Ø2 DET										
	Ø4 DET										
#10	SERVICE									3	
	* CAMERA CABLE	1	1	2	3	3	2	1	5		
	** QUAD GATE LOOP DETECTION INPUT				8	8			8	5	3
	24 PR. #22 I.C.	1	1	1					1		
	12 PR. #22 I.C.								2		
	CONDUIT SIZE	2 1/2"	2 1/2"	3"	3"	3"	3"	3"	3"	2"	2"

* 1 RU58 COAXIAL CABLE
 ** LW-418 WIRE
 NOTE: ALL CONDUIT IS EXISTING UNLESS OTHERWISE NOTED.
 (N)=NEW

EQUIPMENT SCHEDULE															
LOCATION	STANDARD				LUMINAIRE	VEH SIGNAL MOUNTING		PED SIGNAL MOUNTING	PED PUSH BUTTON	ILLUMINATED STREET NAME SIGN LEGEND	POLE LOCATION				
	TYPE	HEIGHT	SIGNAL MAST ARM	LUMINAIRE MAST ARM		MAST ARM	POLE				Ø	ARROW	A	B	C
①	29-5-70	30'	55'	15'	200 W	3-MAS	SV-1-T	SP-1-T	4	← Rose Dr Rose Dr →			14'	3'	
②	15	30'		15'	200 W		SV-2-T	SP-1-T	6	→			14'	2.5'	
③	26-4-70	30'	45'	15'	200 W	3-MAS (N)	SV-1-T (N)	SP-1-T	6	←			6'	4'	
④	15	30'		15'	200 W		SV-2-T	SP-1-T	8	←			8'	3.5'	
⑤	29-5-129	30'	50'	15'	200 W	3-MAS	SV-2-T	SP-1-T	8	→	← Tustin Av Tustin Av →		4'	2.5'	
⑥	61-5-129	30'	60	15'	200 W	3-MAS	SV-1-T	SP-1-T		← Tustin Av Tustin Av →		4'		2.5'	
⑦	15	30'		15'	200 W		SV-2-T		4	→			7'	2.5'	
⑧	1-A (N)	10' (N)					TV-1-T (N)								

NOTE: ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED. (N)=NEW

FOR CONSTRUCTION NOTES SEE SHEET TS-4.

REFERENCES	
Bench Mark	Standard Plans
Field Notes	Utility Plans
	Sewer Plans



PREPARED BY:
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 APPROVED: WARREN C. SIECKE R.C.E. NO. 18707 EXP. 6-30-05
 9/22/04
 CITY ENGINEER R.C.E. NO. 18707

SUPPLEMENTAL SAFETY MEASURES
TRAFFIC SIGNAL MODIFICATION
ORANGETHORPE AVE. & ROSE DR./TUSTIN AVE.
CITY OF PLACENTIA

DRAWING NO.
TS-3
 SHEET 23 OF 54

