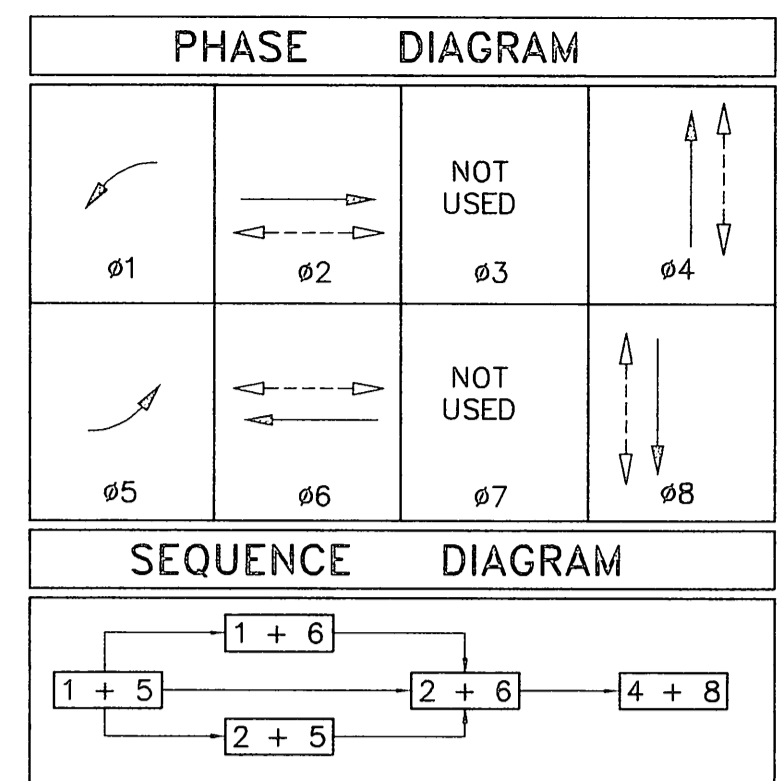


CONDUCTOR SCHEDULE													
AWG	CONDUCTOR	CONDUIT RUN											
		1	2	3	4	5	6	7	8	9	10	11	12
	Ø1												
	Ø2	(3)	(3)	(3)	(3)	(3)	(3)	(3)					
	Ø4	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	3			
	Ø5	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	3	3	3	
	Ø6												
	Ø8	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(6)	(3)	(3)		
	Ø2 PED	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
	Ø4 PED	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
	Ø6 PED								(2)	(2)	(2)	(2)	(2)
	Ø8 PED	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
	Ø2 PPB	(1)	(1)	(1)	(1)	(1)	(1)	(1)					
	Ø4 PPB	(1)	(1)	(1)	(1)	(1)	(1)	(1)					
	Ø6 PPB								2	2	1		
	Ø8 PPB	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1	1	1	1
	PPB COMMON	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1	1	1	1
	SPARE	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	6	3	3	3
	TOTAL #14	(13)	(22)	(23)	(29)	(29)	(29)	(29)	(13)	57	22	16	10
#12	IISNS	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
#10	SIGNAL COMMON	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	1	1	1	1
#8	LUMINAIRE	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
#6	SERVICE								2	2			
	Ø1								(1)	(1)	(1)	(1)	
	Ø2				2	2	2		2	2			
	Ø4								2	2			
	Ø5				1	1	1		1	1			
	Ø6								2	2	2	2	
	Ø8	(2)	(2)	(2)	(2)	(2)	(2)	(2)					
	TOTAL DLC	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(7)	(4)	(2)	(2)	
	INTERCONNECT CABLE								(1)	(1)	(1)	(1)	
	CONDUIT SIZE	2"	3"	3"	3"	3"	3"	3"	2-3"	3"	3"	3"	2"

ALL CONDUCTOR AND CONDUIT EXIST IN PLACE UNLESS OTHERWISE NOTED:
 (N) INSTALL NEW CONDUIT
 (N) INSTALL NEW CONDUCTOR WITHOUT SPlicing
 (N) INSTALL NEW CONDUIT

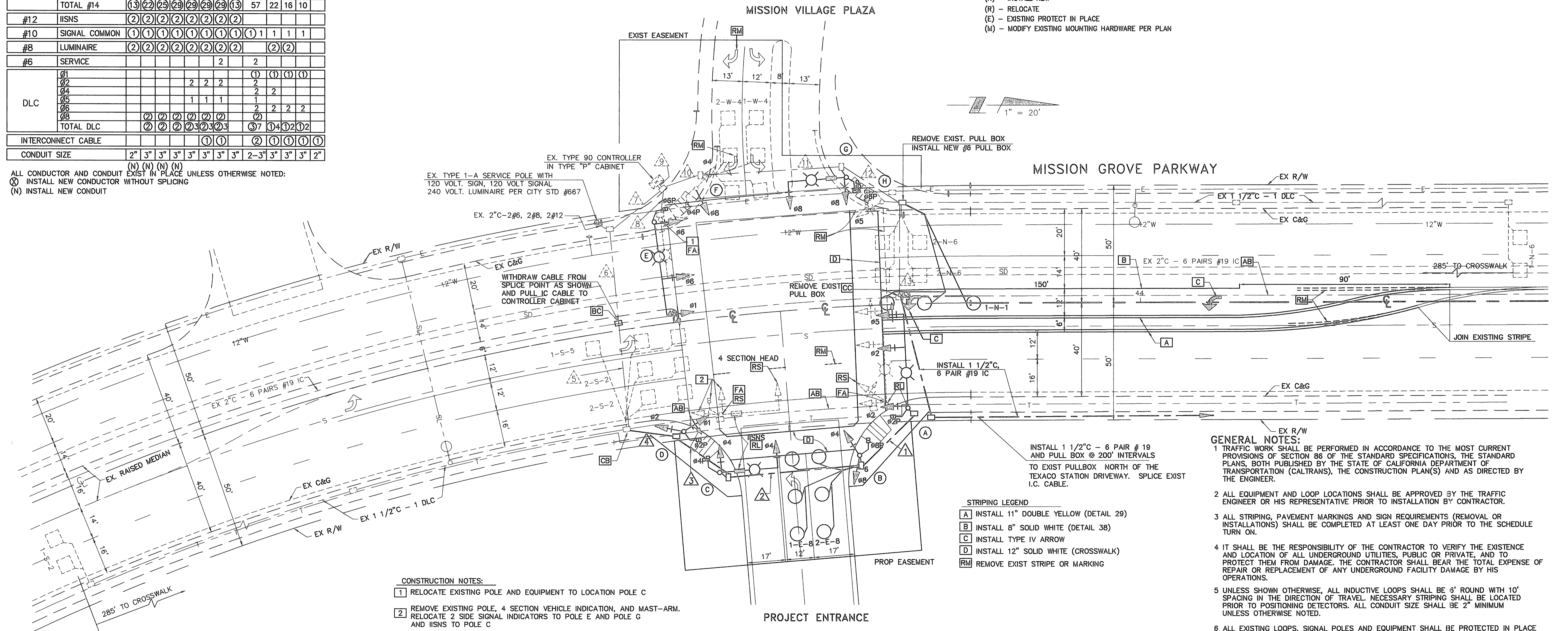


DETECTOR SCHEDULE				
UNIT	CHANNEL	LOOP DESIGNATION	NUMBER OF LOOP	FEATURES
1	1	1-S-2	2	□○
	2	2-S-2	4	
2	1	1-S-5	3	□
	2	1-E-6	2	
3	1	2-E-6	4	
	2	1-E-1	3	□
4	1	1-W-4	3	
	2	2-W-4	3	
5(N)	1	1-N-1	3 (N)	□
	2	1-E-8	3 (N)	
6(N)	1	2-E-8	3 (N)	
	2	SPARE		

CALL HOLD (EXTENSION) FOR SAMPLING
 DETECTOR SHALL BE RACK-MOUNTED 2 CHANNEL CONTRACTOR TO FURNISH AND INSTALL SENSOR UNIT AND LOAD SWITCH (PER CITY SPECIFICATIONS) TO INSURE PROPER INTENDED OPERATION.

POLE SCHEDULE											
NO.	TYPE	HEIGHT	MAST ARM LENGTH	SIGNAL MOUNTING			PPB	H.P.S.V.	I.I.S.N.S. LEGEND	REMARKS	
				SIGNAL	LUMINAIRE	MA POLE					
(A)	26A-4-80 (R)	35'	40'	15'	2-MAS	SV-1-T(N)SP-1-T(N)	8(N)	S	250 W (R)	RELOCATE EX POLE AND EQUIPMENT TO NEW LOCATION AS SHOWN	
(B)	1-A (N)	10'	-	-	-	TV-2-T(N)SP-1-T(N)	2(N)	W		INSTALL ALL NEW POLE AND EQUIPMENT	
(C)	19A-4-80(R)	35'	25'	15'	MAS	SV-1-T SP-1-T	2	W	250 W	Mission Grove ^{Phy 5} (R) SEE CONSTRUCTION NOTE 1	
(D)	1-A(N)	10'	-	-	-	TV-2-T(N)SP-1-T(N)	4(N)	N		INSTALL ALL NEW POLE AND EQUIPMENT	
(E)	26-4-80(N)	30'	40'	15'	2-MAS (N)	SV-1-T(N)SP-1-T(N)	4(N)	N	250 W (N)	INSTALL ALL NEW POLE AND EQUIPMENT	
(F)	1-A(E)	10'	-	-	-	TV-2-T(N)SP-1-T(E)	6(E)	E			
(G)	19-4-80(N)	30'	25'	15'	MAS (N)	SV-1-T(N)SP-1-T(N)	6(N)	E	250 W (N)	Mission Grove ^{Phy 5} (N) INSTALL ALL NEW POLE AND EQUIPMENT	
(H)	1-A (E)	10'	-	-	-	TV-1-T(E)SP-1-T(E)	8(R)	S		RELOCATE PPB TO NEW LOCATION	

EXACT POLE LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
 (N) - INSTALL NEW
 (R) - RELOCATE
 (E) - EXISTING PROTECT IN PLACE
 (M) - MODIFY EXISTING MOUNTING HARDWARE PER PLAN



- CONSTRUCTION NOTES:
- RELOCATE EXISTING POLE AND EQUIPMENT TO LOCATION POLE C
 - REMOVE EXISTING POLE, 4 SECTION VEHICLE INDICATION, AND MAST-ARM. RELOCATE 2 SIDE SIGNAL INDICATORS TO POLE E AND POLE G AND IISNS TO POLE C

- STRIPING LEGEND
- (A) INSTALL 11" DOUBLE YELLOW (DETAIL 29)
 - (B) INSTALL 8" SOLID WHITE (DETAIL 38)
 - (C) INSTALL TYPE IV ARROW
 - (D) INSTALL 12" SOLID WHITE (CROSSWALK)
 - (RM) REMOVE EXIST STRIPE OR MARKING

- GENERAL NOTES:
- TRAFFIC WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MOST CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS. THE STANDARD PLANS, BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S) AND AS DIRECTED BY THE ENGINEER.
 - ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY CONTRACTOR.
 - ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULE TURN ON.
 - IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES, PUBLIC OR PRIVATE, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR THE TOTAL EXPENSE OF REPAIR OR REPLACEMENT OF ANY UNDERGROUND FACILITY DAMAGE BY HIS OPERATIONS.
 - UNLESS SHOWN OTHERWISE, ALL INDUCTIVE LOOPS SHALL BE 6' ROUND WITH 10' SPACING IN THE DIRECTION OF TRAVEL. NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING DETECTORS. ALL CONDUIT SIZE SHALL BE 2" MINIMUM UNLESS OTHERWISE NOTED.
 - ALL EXISTING LOOPS, SIGNAL POLES AND EQUIPMENT SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
 - SPLICING OF THE CONDUCTORS IS NOT ALLOWED UNLESS OTHERWISE NOTED.
 - INSPECTION FEE WILL BE AT THE RATE OF \$38.50 PER HOUR.
 - CONSTRUCTION WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOPS SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL AND INSPECTOR HAVE BEEN NOTIFIED AT (909)351-6096 AND THE NECESSARY TIMING ADJUSTMENTS MADE TO MAINTAIN SIGNAL OPERATION.
 - ALL SALVAGE MATERIALS SHALL BE DELIVERED TO CITY YARD AT 8095 LINCOLN AVENUE.
 - FOR ROADWAY CONSTRUCTION DETAILS SEE STREET IMPROVEMENT PLAN R-3056
 - A "STREET OPENING" PERMIT OBTAINED AT THE CITY OF RIVERSIDE PUBLIC WORKS DEPT. IS REQUIRED FOR THIS WORK.

13. THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCTION, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING PLANS FOR APPROVAL BY THE CITY

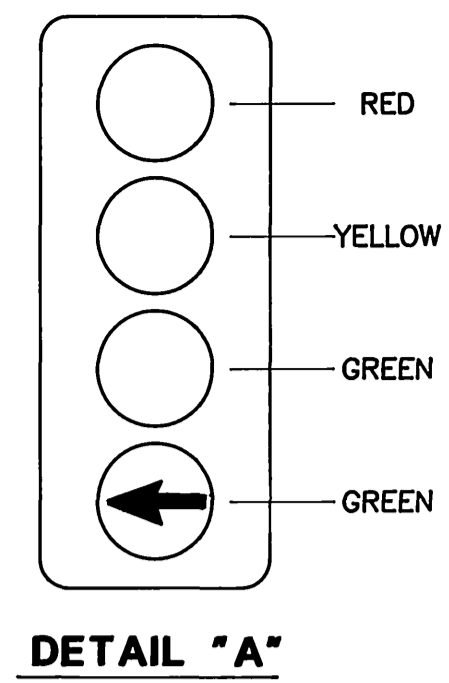
Undergroud Service Alert Call: 	PRIVATE ENGINEERING NOTE CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.		PREPARED UNDER THE DIRECTION OF: 		SCALE: 1"=20' BENCH MARK: P.K. NAIL AND TAG IN TOP OF 5' x 15' x 3' HIGH GRANITE ROCK 48' WLY OF TRAUTWEIN ROAD AND 0.4 MI. S'LY OF ALESSANDRO BLVD. FB 235/73, ELEV. = 1566.731 FT.	DESIGNED BY: KTO DRAWN BY: KTO CHECKED BY: TCL	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	PARCEL MAP 28486 TRAFFIC SIGNAL MODIFICATION MISSION VILLAGE PLAZA AND MISSION GROVE PKWY SOUTH	PROJECT NO. X-363A SHEET 1 OF 1 FILE NO.: 1004-004
			REGISTERED CIVIL ENGINEER NO. 50293 EXPIRATION DATE: 6-30-01 DATE: 8-18-97				APPROVED BY: [Signature] PRINCIPAL ENGINEER: [Signature] TRAFFIC DIVISION: [Signature] CHIEF P.W. ENGINEER: [Signature] PUBLIC UTILITIES: [Signature]		

CONDUCTOR SCHEDULE									
AWG	CONDUCTOR	CONDUIT RUN							
		▲	▲	▲	▲	▲	▲	▲	▲
#14	Ø1								
	Ø2	3	3	3	3	3			
	Ø3								
	Ø4	3	3	3	3	6	3		
	Ø5	3	3	3	3	6	3	3	3
	Ø6					3			
	Ø7								
	Ø8								
	Ø2PED								
	Ø4PED	2	2	2	4	2			
	Ø6PED				4	2	2	2	
	Ø8PED								
	Ø2PPB								
	Ø4PPB	1	1	1	2				
Ø6PPB				2	2	1			
Ø8PPB									
PPB COMMON	1	1	1	1	2	1	1	1	
SPARE	3	3	3	3	6	3	3	3	
TOTAL #14	13	16	16	16	38	16	10	9	
#12	I.I.S.N.S.		2	2	2				
#10	SIGNAL COMMON	1	1	1	1	2	1	1	1
#8	LUMINAIRE	2	2	2	2				
#6	SERVICE				2	2			
DLC	Ø1				2	2			
	Ø2								
	Ø3								
	Ø4					2	2		
	Ø5	1	1	1	1	1	1	1	
	Ø6				2	2	2	2	
	Ø7								
	Ø8								
TOTAL DLC	3	3	7	4	2	2	2		
INTERCONNECT CABLE (I.C.)					1	1	1	1	
CONDUIT SIZE		3"	3"	3"	3"	2-3"	3"	3"	3"

INSTALL ALL NEW CONDUCTOR
 INSTALL ALL NEW CONDUIT UNLESS OTHERWISE NOTED:
 (E) = EXISTING
 SEE SPECIAL PROVISIONS FOR INTERCONNECT CABLE REQUIREMENTS

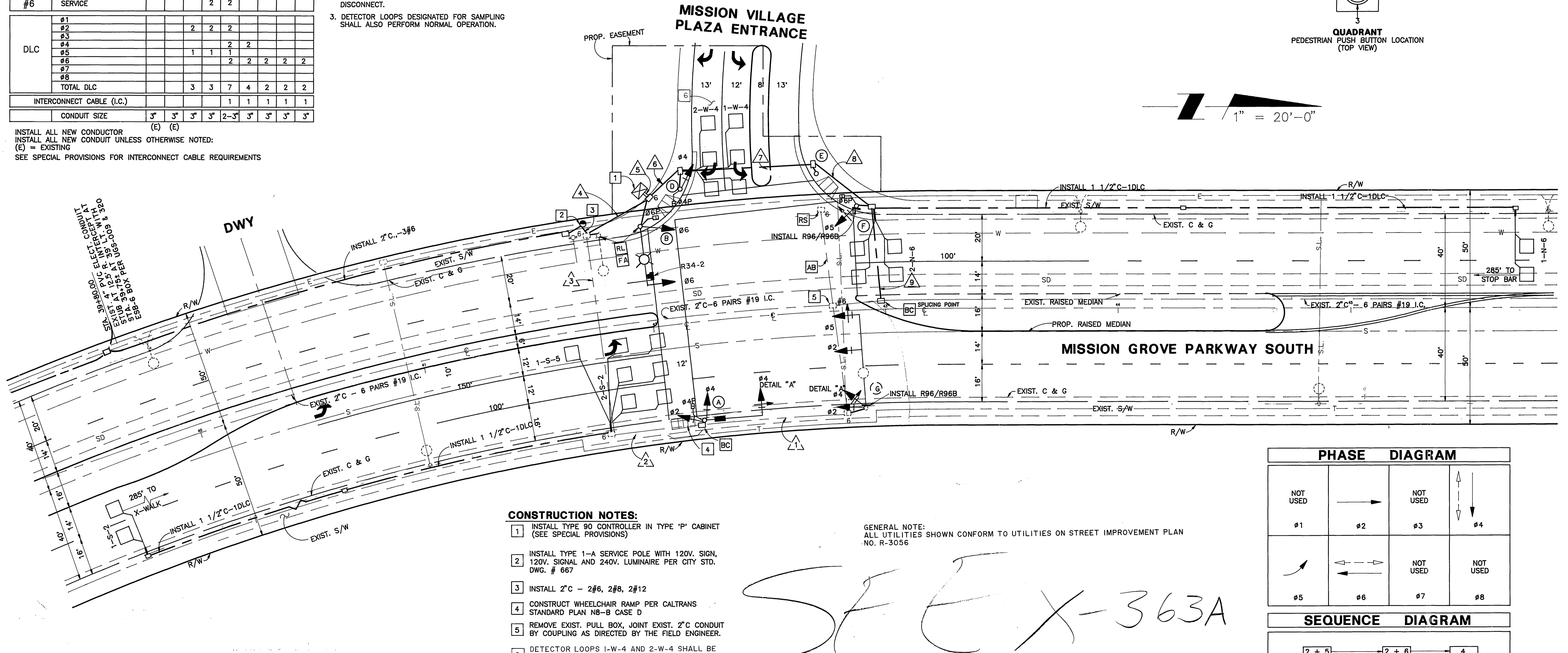
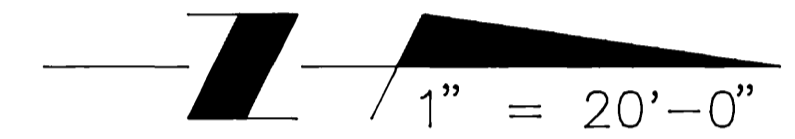
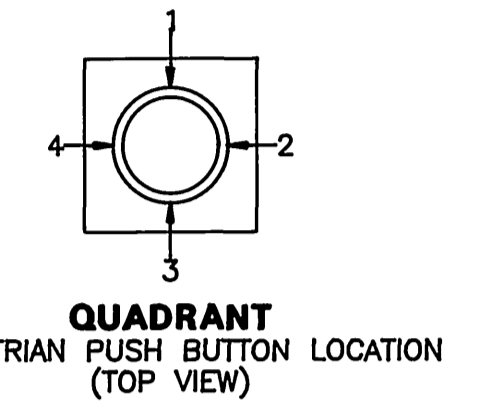
DETECTOR SCHEDULE			
CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-S-2	2	● ■
2	2-S-2	4	
1	1-S-5	3	■
2	1-E-6	2	● ■
1	2-E-6	4	
2	1-E-1	4	
1	1-W-4	3	▲
2	2-W-4	3	
1			
2			

● CALL-HOLD (EXTENSION)
 ■ FOR SAMPLING
 ▲ DELAY
 DETECTOR SHALL BE RACK-MOUNTED 2-CHANNEL (ALSO SEE SPECIAL PROVISIONS)
 NOTES:
 1. DETECTOR TIMING AND SAMPLING FEATURE MAY BE ACCOMPLISHED THROUGH INTERNAL LOGIC OF THE CONTROLLER UNIT.
 2. SEE SPECIAL PROVISIONS REGARDING DETECTOR DISCONNECT.
 3. DETECTOR LOOPS DESIGNATED FOR SAMPLING SHALL ALSO PERFORM NORMAL OPERATION.



POLE SCHEDULE												
NO.	TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB		H.P.S.V. LUMINAIRE	I.I.S.N.S. LEGEND	REMARKS
			SIGNAL	LUMINAIRE	MA	POLE	PED	Ø	QUAD			
(A)	18-3-80	17'	25'		MAS	SV-2-TB	SP-1-T	4	4		Mission Grove Pkwy S. 7500	
(B)	19A-3-80 (R)	35' (R)	25'	15' (R)	MAS	SV-1-T	SP-1-T	4	2	250W(R)		RELOCATE POLE STD. AND LUMINAIRE
(C)	PPB POST	3'-10"						4	2			
(D)	1-A	10'				TV-1-T	SP-1-T	6	3			
(E)	PPB POST	3'-10"						6	3			
(F)	1-A	10'				TV-1-T	SP-1-T					
(G)	26A-4-80 (E)	35' (E)	40'	15' (E)	2-MAS	SV-2-TB				250W(E)		EXISTING POLE STD. AND LUMINAIRE

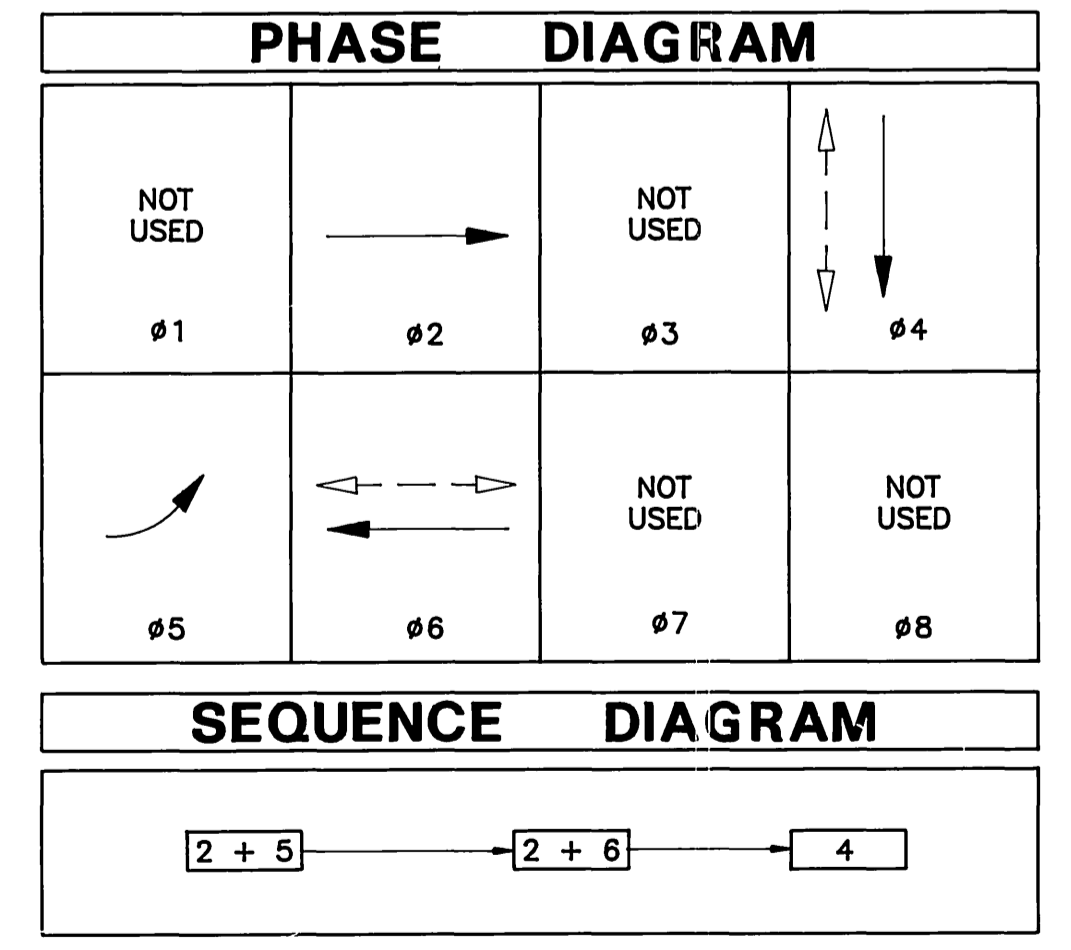
EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
 TYPE 1-A STANDARDS SHALL BE ALUMINUM
 INSTALL ALL NEW STANDARDS UNLESS OTHERWISE NOTED AND/OR SEE REMARKS
 (E) = EXISTING
 (R) = RELOCATE



- CONSTRUCTION NOTES:**
- INSTALL TYPE 90 CONTROLLER IN TYPE 'P' CABINET (SEE SPECIAL PROVISIONS)
 - INSTALL TYPE 1-A SERVICE POLE WITH 120V. SIGN, 120V. SIGNAL AND 240V. LUMINAIRE PER CITY STD. DWG. # 667
 - INSTALL 2" C - 2#6, 2#8, 2#12
 - CONSTRUCT WHEELCHAIR RAMP PER CALTRANS STANDARD PLAN N8-B CASE D
 - REMOVE EXIST. PULL BOX, JOINT EXIST. 2" CONDUIT BY COUPLING AS DIRECTED BY THE FIELD ENGINEER.
 - DETECTOR LOOPS 1-W-4 AND 2-W-4 SHALL BE PRE-FABRICATED LOOPS TO BE INSTALLED UNDER INTERLOCKING PAVERS

GENERAL NOTE:
 ALL UTILITIES SHOWN CONFORM TO UTILITIES ON STREET IMPROVEMENT PLAN NO. R-3056

SEE X-363A



Underground Service Alert
 Call: TOLL FREE
 1 - 800
 422 - 4133

PRIVATE ENGINEERING NOTE
 CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL

CITY OF RIVERSIDE OVERHEAD AND UNDERGROUND ELECTRICAL
 [Signature]
 8/22/91
 ENG. MANAGER-ELECTRICAL

PREPARED UNDER THE DIRECTION OF
 [Signature]
 REGISTERED CIVIL ENGINEER NO. 44521
 EXPIRATION DATE: 3/31/94 DATE: 8/13/91
 RECOMMENDED BY: DATE: 8/13/91
 [Signature]
 James B. Dobbins RTE: 18

J.F. Davidson Associates, Inc.
 ENGINEERING PLANNING SURVEYING LANDSCAPE ARCHITECTURE
 MUNICIPAL ENGINEERING DIVISION
 3426 TENTH STREET
 P.O. BOX 493
 RIVERSIDE, CA 92502
 (714) 683-0209 FAX (714) 686-5807

SCALE: 1"=20'-0" BENCH MARK:
 DATE: AUGUST, 1991

DESIGNED BY KTO/CMM DRAWN BY KTO/CMM CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY [Signature] BY DATE [Signature] [Date]
 PRINCIPAL ENGINEER [Signature] [Date]
 INSPECTION [Signature] [Date]
 TRAFFIC DIVISION [Signature] [Date]
 CHIEF P.W. ENGINEER [Signature] [Date]
 PUBLIC UTILITIES [Signature] [Date]

TRAFFIC SIGNAL PLAN
 MISSION GROVE PKWY SOUTH
 AT
 MISSION VILLAGE PLAZA ENTRANCE

FOR: REGIONAL PROPERTIES

PROJECT NO. 8911101
X-363
 SHEET 1 OF 1
 FILE NO: