

**CONDUCTOR AND CONDUIT SCHEDULE**

CABLE	CONDUCTOR RUN	1	2	3	4	5
12 CONDUCTOR	POLE A	-	-	-	-	1
	POLE B	-	2	-	-	2
	POLE C	2	2	-	-	2
	POLE D	-	-	1	1	1
	POLE E	-	-	-	2	1
	TOTAL	2	4	1	3	8
#10	LUMINAIRE	-	2	2	2	-
#20	VEHICLE PRE-EMPTION	-	1	1	1	2
#6	SIGNAL SERVICE	-	-	-	-	-
DLC	Ø1 DETECTORS	2	2	-	-	2
	Ø2 DETECTORS	-	-	-	-	5
	Ø3 DETECTORS	-	-	-	2	2
	Ø6 DETECTORS	4	4	-	-	4
	Ø8 DETECTORS	-	-	-	2	2
	TOTAL	6	6	-	4	15
SIC	6 PAIR #20	-	-	-	-	1
CONDUIT SIZE		78 mm	91 mm	53 mm	91 mm	2-103 1-53 mm

**POLE AND EQUIPMENT SCHEDULE**

No.	TYPE	STANDARD		VEH SIG MTG		PED SIG MOUNTING	PED PUSH BTN PHASE	H P S LUMINAIRE	REFLECTIVE SNS LEGEND		POLE LOC		REMARKS	
		S	M A	L	M A				M	A	POLE	FRONT		BACK
(A)	1A	-	-	-	-	TV-2-T	SP-1-T	2	-	-	-	6.6	1.0	
(B)	24-4-129	10.7	3.7	(2)MAS	SV-2-T	-	-	-	200W	← SR 60	SR60 →	-	-	AS SHOWN
(C)	18-3-129	6.1	-	MAS	SV-2-T	-	-	-	-	Day St	-	-	-	AS SHOWN
(D)	19-3-129	7.6	3.7	MAS	SV-1-T	SP-1-T	-	-	200W	SR60 →	← SR 60	5.2	1.0	
(E)	1A	-	-	-	TV-2-T	-	2	-	-	-	-	8.5	1.0	

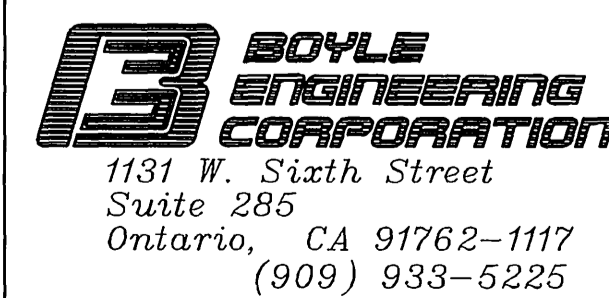
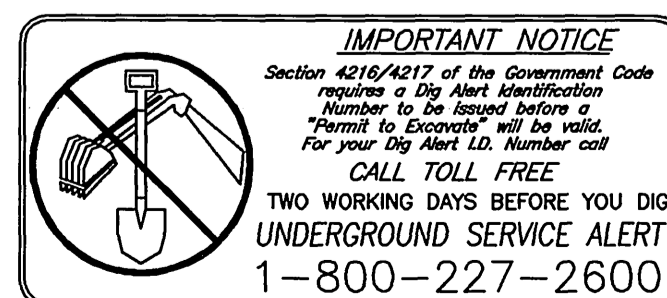
LOCATION DIMENSIONS ARE PER STANDARD PLAN ES-4C. AFTER LOCATING STANDARDS PER DIMENSIONS NOTED ABOVE, ENSURE COMPLIANCE WITH GENERAL NOTE 5. ALL VEHICLE INDICATIONS SHALL BE 300mm LED TYPE.

SPECIAL LENGTH SMA. SMA BASE PLATE DIMENSIONS "I", "J" & "K" ON STANDARD PLAN ES-7E SHALL MATCH THOSE FOR 9.1m SMA LENGTH.

**GENERAL SIGNAL NOTES:**

- ALL SIGNAL AND LIGHTING WORK SHALL CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION AND STANDARD PLANS DATED JULY 2002, AND THE SPECIAL PROVISIONS ACCOMPANYING THIS PLAN.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A TYPE 2070 SIGNAL CONTROLLER, 170E MASTER CONTROLLER, TYPE 332 CONTROLLER CABINET, AND PERIPHERAL EQUIPMENT. SEE SPECIAL PROVISIONS FOR CABINET REQUIREMENTS.
- THE CONTRACTOR SHALL FURNISH AND INSTALL A TYPE III-CF SERVICE EQUIPMENT ENCLOSURE FOR THE SIGNAL SERVICE AND A TYPE III-BF SERVICE EQUIPMENT ENCLOSURE FOR CITY LIGHTING SYSTEM AS SHOWN ON PLAN. SEE SPECIAL PROVISIONS FOR ENCLOSURE REQUIREMENTS.
- THE APPROXIMATE LOCATIONS OF UTILITIES SHOWN HEREON OR SHOWN ON STREET CONSTRUCTION PLANS ARE AS SHOWN ON CITY AND UTILITY COMPANY RECORDS. OTHER FACILITIES MAY EXIST IN THE AREA OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES WHICH MAY CONFLICT WITH FACILITIES TO BE CONSTRUCTED PRIOR TO COMMENCING THE WORK. CALTRANS REQUIRES THAT ALL SIGNAL STANDARDS REMAIN 3m CLEAR OF OVERHEAD ELECTRICAL LINES.
- THE LOCATIONS OF ALL STANDARDS, PULL BOXES, SERVICE EQUIPMENT AND CONTROLLERS TO BE INSTALLED BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- BOLD FACE ELECTRICAL PLAN SYMBOLS ARE NEW CONSTRUCTION. HALF TONE SYMBOLS ARE EXISTING.
- ALL VEHICLE SIGNAL HEADS SHALL BE 300mm LED TYPE AND SHALL HAVE BACKPLATES. SEE SPECIAL PROVISIONS. ALL PED SIGNAL HEADS SHALL BE LED TYPE.

CALTRANS ELECTRICAL			
SUBMITTED BY	REVIEWED BY	REVIEWED BY	DATE
ENCROACHMENT PERMIT NO: 08-04-NMC-0679			



MARK	REVISIONS	APPR.	DATE
△	ADDED EVP CABLE TO CONDUCTOR SCHEDULE, REVISED GENERAL NOTES		7-26-04

CITY OF MORENO VALLEY, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
CITY TRAFFIC ENGINEER	EDB	8/12/04	[Signature]
ASST. CITY ENGINEER	[Signature]	8/12/04	PUBLIC WORKS DIRECTOR
SENIOR ENGINEER	MRL	8/12/04	DATE 8/12/04 R.C.E. 20517

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER	DL	7/26/04	[Signature]
P.W. INSPECTION	SE	7/30/04	CITY ENGINEER
TRAFFIC DIVISION	PC	7/29/04	R.C.E. 36170
PUBLIC UTILITIES			DATE 7/29/04

DAY STREET WIDENING IMPROVEMENTS		ACCT. NO.
TRAFFIC SIGNAL EQUIPMENT SCHEDULES AT DAY STREET AND WB SR-60 RAMPS		2390240-455023
		X-161A
		SHEET 3 OF 3
		KP 22.0/18.5

**CONTRACT NO. TE-04-04  
PERMIT NO. 08-04-NMC-0679**

# PAVEMENT DELINEATION

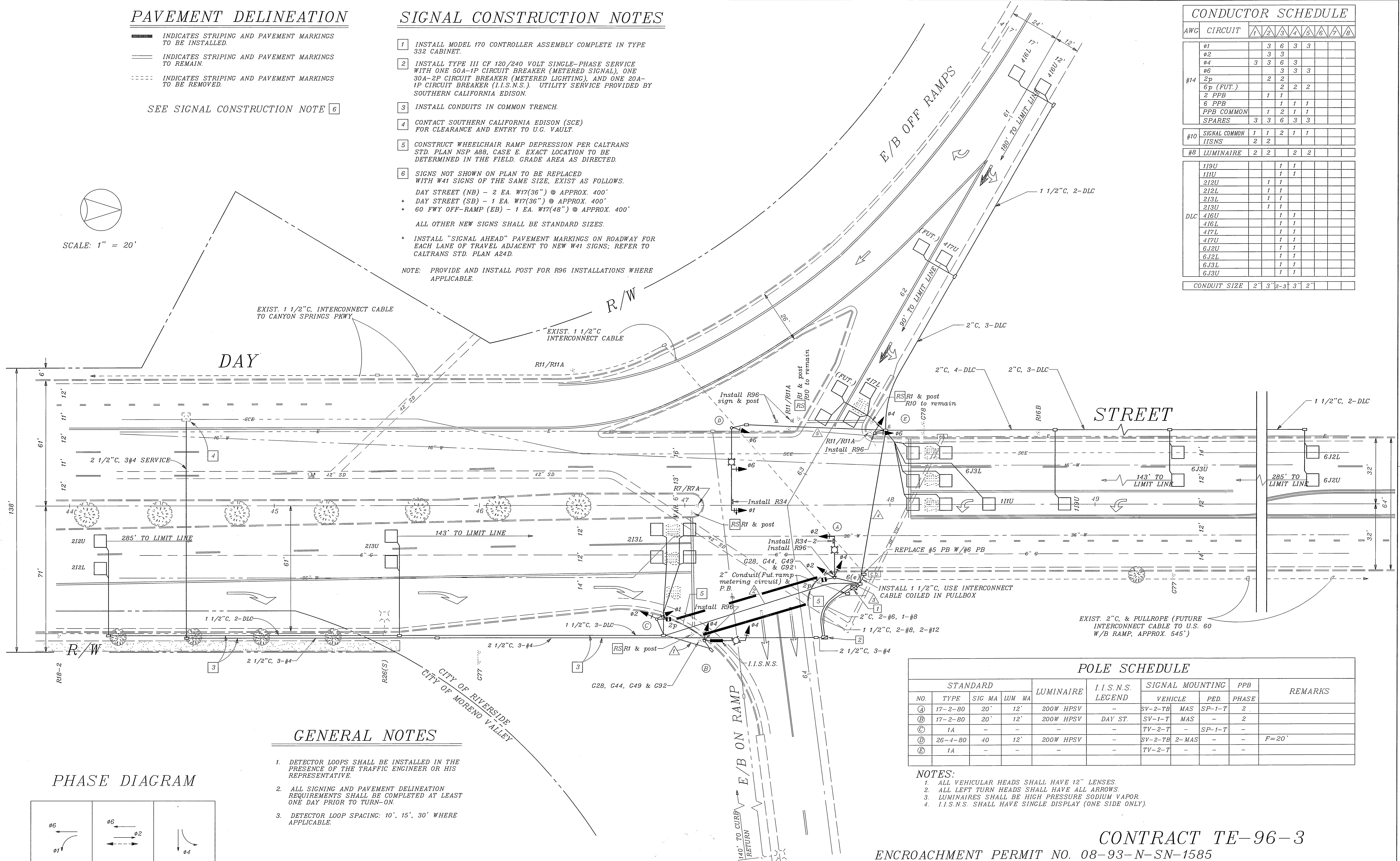
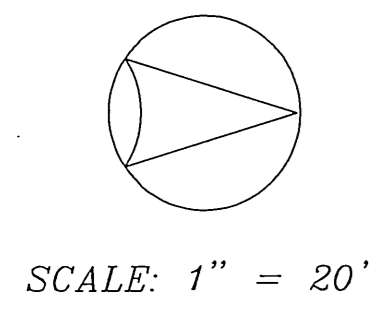
- INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.
- - - - INDICATES STRIPING AND PAVEMENT MARKINGS TO REMAIN.
- · · · · INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

SEE SIGNAL CONSTRUCTION NOTE 6

# SIGNAL CONSTRUCTION NOTES

1. INSTALL MODEL 170 CONTROLLER ASSEMBLY COMPLETE IN TYPE 332 CABINET.
  2. INSTALL TYPE III CF 120/240 VOLT SINGLE-PHASE SERVICE WITH ONE 50A-1P CIRCUIT BREAKER (METERED SIGNAL), ONE 30A-2P CIRCUIT BREAKER (METERED LIGHTING), AND ONE 20A-1P CIRCUIT BREAKER (I.I.S.N.S.). UTILITY SERVICE PROVIDED BY SOUTHERN CALIFORNIA EDISON.
  3. INSTALL CONDUITS IN COMMON TRENCH.
  4. CONTACT SOUTHERN CALIFORNIA EDISON (SCE) FOR CLEARANCE AND ENTRY TO U.G. VAULT.
  5. CONSTRUCT WHEELCHAIR RAMP DEPRESSION PER CALTRANS STD. PLAN NSP A88, CASE E. EXACT LOCATION TO BE DETERMINED IN THE FIELD. GRADE AREA AS DIRECTED.
  6. SIGNS NOT SHOWN ON PLAN TO BE REPLACED WITH W41 SIGNS OF THE SAME SIZE, EXIST AS FOLLOWS:
    - DAY STREET (NB) - 2 EA. W17(36") @ APPROX. 400'
    - DAY STREET (SB) - 1 EA. W17(36") @ APPROX. 400'
    - 60 FWY OFF-RAMP (EB) - 1 EA. W17(48") @ APPROX. 400'
 ALL OTHER NEW SIGNS SHALL BE STANDARD SIZES.
- NOTE: PROVIDE AND INSTALL POST FOR R96 INSTALLATIONS WHERE APPLICABLE.

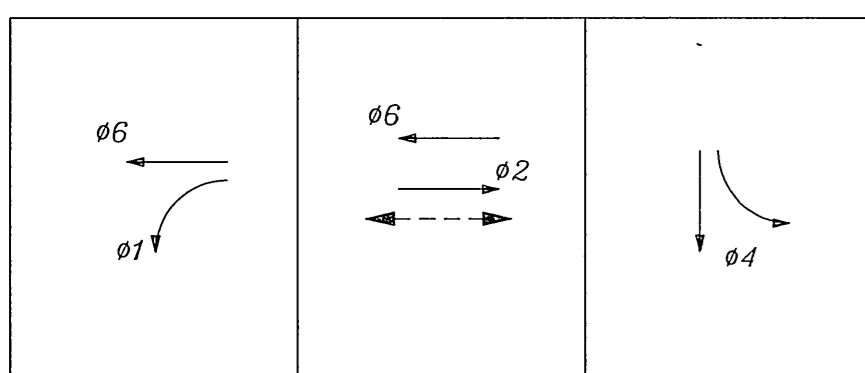
CONDUCTOR SCHEDULE									
AWG	CIRCUIT	1	2	3	4	5	6	7	8
#14	01		3	6	3	3			
	02		3	3					
	04		3	3	6	3			
	06						3	3	3
	2P		2	2					
	6P (FUT.)				2	2	2	2	
#10	2 PPB		1	1					
	6 PPB				1	1	1		
	PPB COMMON		1	2	1	1			
#8	SIGNAL COMMON		1	1	2	1	1		
	IISNS		2	2					
DLC	LUMINAIRE		2	2		2	2		
	119U				1	1			
	111U				1	1			
	212U				1	1			
	212L				1	1			
	213L				1	1			
	213U				1	1			
	416U				1	1			
	416L				1	1			
	417L				1	1			
417U				1	1				
6J2U				1	1				
6J2L				1	1				
6J3L				1	1				
6J3U				1	1				
CONDUIT SIZE		2"	3"	2-3"	3"	2"			



## GENERAL NOTES

1. DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
2. ALL SIGNING AND PAVEMENT DELINEATION REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN-ON.
3. DETECTOR LOOP SPACING: 10', 15', 30' WHERE APPLICABLE.

## PHASE DIAGRAM



POLE SCHEDULE									
NO.	STANDARD			LUMINAIRE	I.I.S.N.S. LEGEND	SIGNAL MOUNTING			REMARKS
	TYPE	SIG	MA			VEHICLE	PED.	PHASE	
(A)	17-2-80	20'	12'	200W HPSV	-	SV-2-TB	MAS	SP-1-T	2
(B)	17-2-80	20'	12'	200W HPSV	DAY ST.	SV-1-T	MAS	-	2
(C)	1A	-	-	-	-	TV-2-T	-	SP-1-T	-
(D)	26-4-80	40'	12'	200W HPSV	-	SV-2-TB	2-MAS	-	F=20'
(E)	1A	-	-	-	-	TV-2-T	-	-	-

- NOTES:
1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
  2. ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.
  3. LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.
  4. I.I.S.N.S. SHALL HAVE SINGLE DISPLAY (ONE SIDE ONLY).

CONTRACT TE-96-3

ENCROACHMENT PERMIT NO. 08-93-N-SN-1585

ENGINEER IN RESPONSIBLE CHARGE  
  
 RICHARD D. McGRATH  
 R.C.E. No. 31952 expires 12-31-96  
 DATE 2/16/96

CITY OF MORENO VALLEY  
 PLANS REVIEWED BY:  
  
 CITY ENGINEER RCE No. 20,517 EXPIRES 9/20/97

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE  
 PUBLIC WORKS DEPARTMENT  
 APPROVED BY:   
 PRINCIPAL ENGINEER 2/16/96  
 INSPECTION:   
 2/18/96  
 TRAFFIC DIVISION:   
 CHIEF P.W. ENGINEER 2/12/96  
 PUBLIC UTILITIES:   
 DATE 2/16/96

TRAFFIC SIGNAL  
 DAY STREET  
 AND  
 FWY. 60 EB RAMPS  
 HORIZ. SCALE: 1" = 20'

ACCOUNT NO.  
 0450-570200-455023  
 X-161  
 SHEET 1 OF 1

AWG.	CIRCUIT	SCHEDULE								
		1	2	3	4	5	6	7	8	9
#14	Ø2		3	3	3		3	3	6	6
	Ø3				3				3	3
	Ø4					3	3	3	3	3
	Ø6						3	3	3	3
	Ø7	3	3	3	3	3	3	3	6	6
	Ø8	3	3	3	3				3	3
	Ø2 PED		2	2	2		2	2	4	4
	Ø4 PED					2	2	2	2	2
	Ø6 PED			2	2				2	2
	Ø8 PED	2	2	2	2				2	2
	Ø2 PPB	1	1	1	1	1	1	1	2	2
	Ø4 PPB								1	1
	Ø6 PPB		1	1	1				1	1
	Ø8 PPB								1	1
	PPB COMMON	1	1	1	1	1	1	1	2	2
SPARES	3	3	3	3	3	3	3	6	6	
TOTAL	13	19	21	25	13	22	24	49	49	

#12	I.S.N.S.		2	2	2	2	2	2	2
	120V HOLIDAY DECORATIONS		2	2	2	2	2	2	2
	TOTAL		4	4	4	4	4	4	4

#10	LUMINAIRE		2	2	2	2	2	2	2
	SIGNAL COMMON	1	1	1	1	1	1	2	2
	TOTAL	1	3	3	3	3	3	4	2

TYPE	C	DLC	SCHEDULE								
			1	2	3	4	5	6	7	8	9
Ø2	DETECTOR						4(N)	3+1(N)	3+1(N)	3+1(N)	
Ø3	DETECTOR	1	1	1	1				1	1	
Ø4	DETECTOR								2	3	
Ø6	DETECTOR			2	2				2	2	
Ø7	DETECTOR								1	1	
Ø8	DETECTOR	2	2	2	2				2	2	
TOTAL		3	3	5	5		3+1(N)	3+1(N)	11+1(N)	12+1(N)	

CONDUIT SIZE	78mm	78mm	78mm	78mm	78mm	78mm	78mm	78mm	78mm
ALL CONDUIT AND CONDUCTORS ARE EXIST UNLESS NOTED (N) NEW									

### CONSTRUCTION NOTES

- RR TYPE 24-4-129 POLE, (3) VEHICLE TRAFFIC HEADS, (1) PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON, INTERNALLY ILLUMINATED STREET NAME SIGN, R73-3 SIGN AND LUMINAIRE, REMOVE EXISTING FOUNDATION.
- RR EXIST TYPE 1 POLE WITH (1) VEHICLE TRAFFIC HEAD, (1) PEDESTRIAN HEAD, PEDESTRIAN PUSH BUTTON, REMOVE EXISTING FOUNDATION.
- ADJUST EXIST PULL BOX TO GRADE. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PULL BOX.
- MODIFY CONTROLLER CABINET EQUIPMENT TO ENSURE INTENDED OPERATION CHANGES SHOWN ON DETECTOR ASSIGNMENT TABLE. CONTROLLER CABINET SHALL ACCOMMODATE OVERLAP OPERATION.

### GENERAL NOTES

- ALL WORK, MATERIAL AND EQUIPMENT SHOWN ON THESE PLANS SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS DATED JULY 2002, AND THE SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL LOCATE ALL SUBSTRUCTURES PRIOR TO CONSTRUCTION. HAND DIG FOUNDATIONS UNTIL CLEAR OF OBSTRUCTIONS. COORDINATE POLE INSTALLATION WITH OVERHEAD UTILITY OR SUBSTRUCTURE OWNERS. PHONE UNDERGROUND SERVICE ALERT AT (800) 227-2600, 48 HOURS PRIOR TO CONSTRUCTION.
- PULL BOXES SHALL BE NO. 6 UNLESS OTHERWISE SHOWN.
- ALL SIGNAL HEADS SHALL HAVE 300mm (12") GLASS LENSES, METAL VISORS AND BACK PLATES.
- ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION.
- ALL SIGNAL EQUIPMENT SHALL BE WIRED IN ACCORDANCE WITH THE PHASE DIAGRAM.
- ALL MATERIAL AND EQUIPMENT SHALL BE FURNISHED BY CONTRACTOR.
- LOCATIONS ARE APPROXIMATE. ANY CHANGES IN LOCATIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ALL CONDUIT SHALL BE GALVANIZED RIGID STEEL.
- ALL MAST ARM STANDARDS SHALL HAVE A 120 VOLT, SINGLE WATERPROOF ELECTRICAL OUTLET AND SHALL BE INSTALLED ON THE STANDARD 300mm (12") ABOVE THE SIGNAL ARM.

GRAPHIC SCALE:  
1:200  
5M 0 5M 10M  
SCALE METER



MARK	REVISIONS	APPR.	DATE

DESIGNED BY UR DRAWN BY RA/CW CHECKED BY SBF

CITY OF MORENO VALLEY, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
CITY TRAFFIC ENGINEER	EdB	8/13/04	CITY ENGINEER	DK	7/30/04
ASST. CITY ENGINEER	JK	8/12/04	TRAFFIC DIVISION	SE	7/30/04
SENIOR ENGINEER	AKL	8/12/04	PUBLIC UTILITIES	PC	7/30/04

DATE 8/12/04 R.C.E. 20517

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	DK	7/30/04	CITY ENGINEER	DK	7/30/04
P.W. INSPECTION	SE	7/30/04	R.C.E.	38170	7/30/04

DATE 7/30/04

DAY STREET WIDENING IMPROVEMENTS  
TRAFFIC SIGNAL PLAN  
BOX SPRINGS RD/ IRONWOOD AVE  
AT DAY STREET

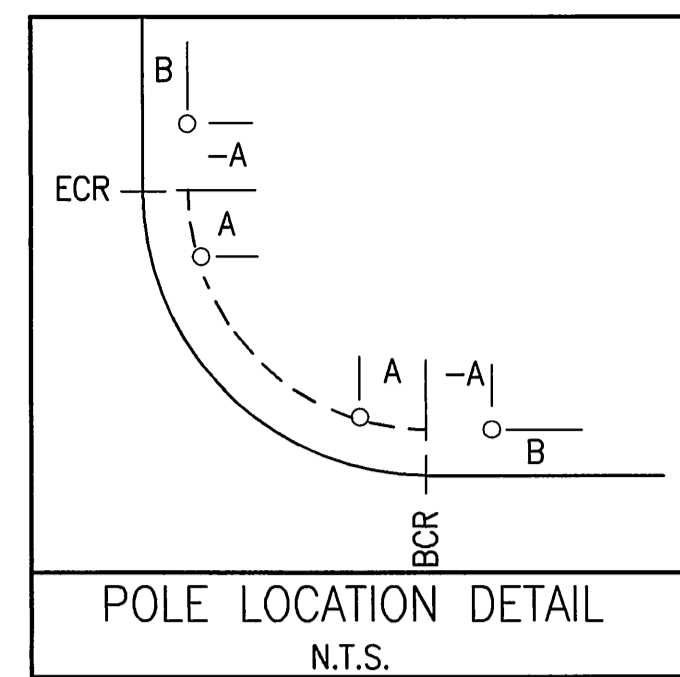
ACCT. NO.	SHEET	OF
2390240-455023	1	3

KP 22.0/18.5

CONTRACT NO. TE-04-04  
PERMIT NO. 08-04-NMC-0679

CHANNEL	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-S-2	3 (N)	EXTENSION
2	2-S-2	2 (N)	NORMAL
1	3-S-2	2 (N)	NORMAL
2	4-S-2	4 (N)	DELAY
1	1-N-6	1	EXTENSION
2	2-N-6	2	NORMAL
1	1-W-4	2	EXTENSION
2	2-W-4	2	NORMAL
1	3-W-4	2	DELAY
2	1-E-8	4	NORMAL
1	1-E-8	2	EXTENSION
2	2-E-8	2	NORMAL
1	1-E-3	4	NORMAL
2	SPARE	-	NORMAL

ALL LOOPS EXIST UNLESS NOTED (N) NEW



No.	TYPE	STANDARD			LUMINAIRE HPSV	SIGNAL MOUNTING			PHASE Ø	I.I.S.N.S.	PLACEMENT		REMARKS	
		HGT.	SIG. M.A.	LUM. M.A.		MAST ARM	POLE	VEHICLE			PED.	A		B
1	24-4-129	9.1	10.7	4.6	250W	MAS	MAS	SV-1-T	SP-1-T	6	Day St	4.3	0.9	
2	1-A	3.05	-	-	-	-	-	TV-1-T	SP-1-T	8	-	4.6	0.9	
3	19-3-129	9.1	9.1	4.6	250W	MAS	-	SV-1-T (N)	SP-1-T	6	-	4.6	0.9	
4	1-A	3.05	-	-	-	-	-	TV-2-T	SP-1-T	2	-	4.3	0.9	
5	24-4-129 (R)	9.1	10.7(R)	4.6(R)	250W (R)	MAS (R)	MAS (R)	SV-1-T (R)	SP-1-T (R)	2(R)	Day St (R)	9.3	0.9	
6	1-A (R)	3.05	-	-	-	-	-	TV-2-T (N)	SP-1-T (R)	4(R)	-	6.1	0.9	
7	19-3-129	9.1	9.1	4.6	250W	MAS	-	SV-1-T	SP-1-T	4	-	4.3	0.9	
8	1-A	3.05	-	-	-	-	-	TV-2-T	SP-1-T	6	-	4.3	0.9	

ALL EQUIPMENT IS EXISTING UNLESS NOTED (N) NEW (R) RELOCATED

