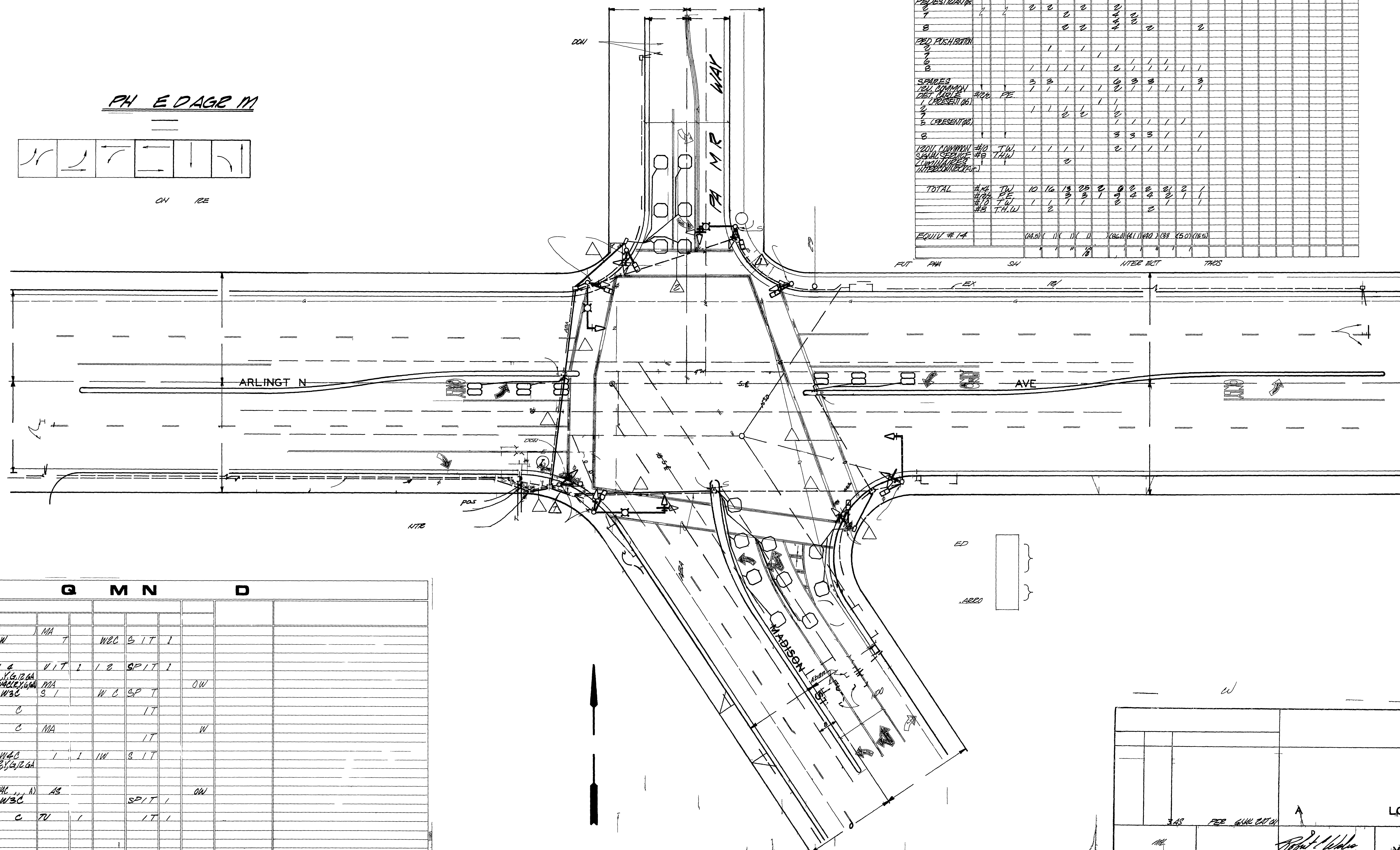
PH E DAGR M



CTO

VEHICLE Ø	#14	T.W.																			
(Future)			3	3	3	3		6			3										
						3															
7								3	3	3	3		3								
uture)						3		6													
								3	3	3	3										
8				3		3			2		2										
PEDESTRIAN Ø's																					
2	2	2	2	2		2		2													
7					2			4	2												
								4	2												
8					2	2		4		2			2								
PED PUSHBUTTON																					
2				1		1		1													
7							1														
6									1	1	1										
8			1	1	1	1		2	1	1	1	1	1								
SPARES			3	3				6	3	3			3								
12V. COMMON			1	1	1	1	1	2	1	1	1	1	1								
DET. CABLE	#22	P.E.																			
1 (PRESENT Ø6)							1	1													
2			1	1	1	1		1													
7					2	2		2													
5 (PRESENT Ø2)								1	1	1	1	1									
8								3	3	3	1		1								
120V. COMMON	#10	T.W.	1	1	1	1		2	1	1	1		1								
SIGNAL SERVICE	#8	T.H.W																			
LUMINAIRES					2																
INTERCONNECT (Fut.)																					
TOTAL	#14	TW	10	16	13	25	2	6	2	2	21	2	1								
	#22	P.E.			3	3	1	9	4	4	2	1	1								
	#10	TW	1	1	1	1		2			1		1								
	#8	T.H.W		2						2											
EQUIV #14			(14.5)	(1)	(1)	(1)	)	(86.0)	(41 1)	(40)	(33	(50)	(155)								

Q M N D

A	8J0G18	I)	MA							
	10 LA,18 SA	W	T		W2C	S I T	1			
B	IA(10')	I 4	V I T	1	I 2	SP I T	1			
		,Y,G,12 GA								
	1 70	IW4C(R,Y,G,GA)	MA					OW		
	0 LA,1 SA	W3C	S I		W C	SP T				
	IA( )	C				I T				
	Y II	C	MA					W		
						I T				
F	A(I)	W4C	I	I	IW	S I T				
		R,Y,G,12 GA								
	PED POST									
	I9	IWAC ,,, A)	AS					OW		
	15 LA,30 SA	W3C				SP I T	I			
I	A( )	C	TV	I		I T	I			

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DATE

CONDUCTOR SCHEDULE

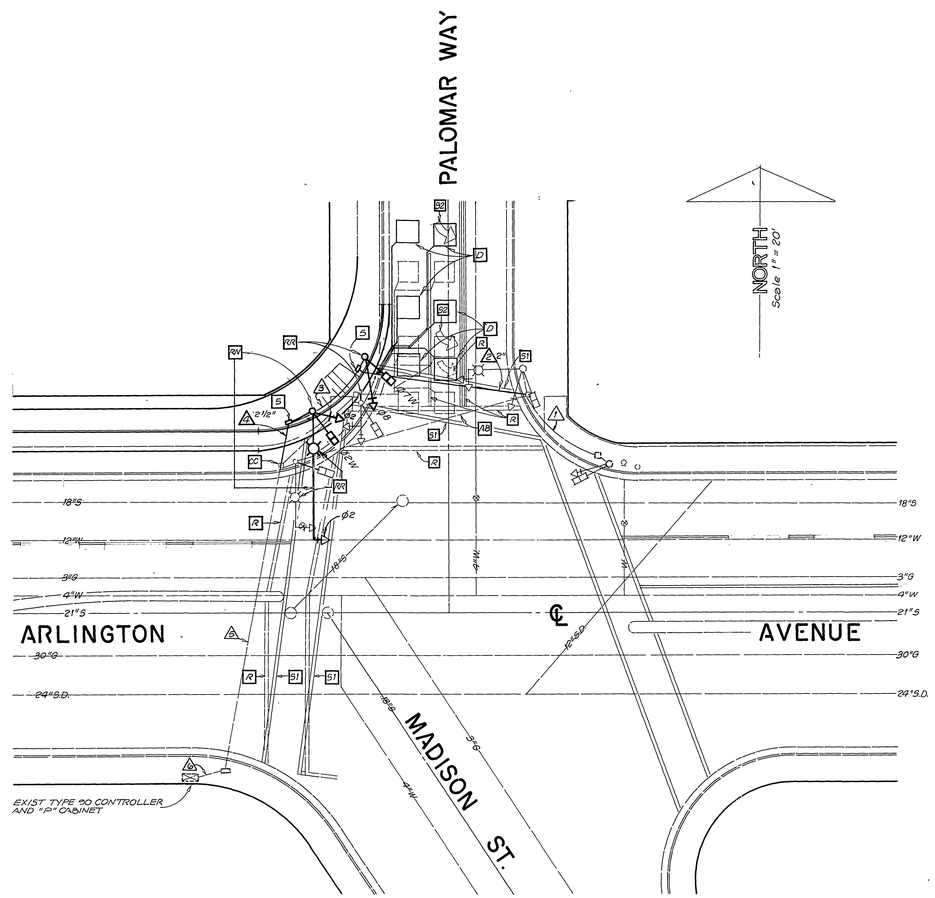
CONTROL FUNCTION	CONDUCTORS: SIZE	INSULATION	CONDUIT RUN 1	2	3	4	5	6	7	8	9	10	11
VEHICLE Ø'S	#14	T.W.											
1 (FUTURE)			3	3	3	3		6	3	3	3		
2						3		6					
7								3	3	3	3		3
5 (FUTURE)						3		6					
6								3	3	3	3		
8				3		3		5	2	2	2		
PEDESTRIAN Ø'S													
2			2	2		2		2					
7					2	2		4	2				
6								4	2	2	2		
8				2	2	2		4	2	2	2		2
PED/PUSH BUTTON													
2				1	1	1		1					
7						1	1	1					
6								1	1	1	1		1
8			1	1	1	1		2	1	1	1	1	1
SPARES			3	3	3	3		6	3	3	3		3
12V COMMON			1	1	1	1	1	2	1	1	1	1	1
DET. CABLE	#12/2	P.E.											
1 (PRESENT Ø6)							1	1					
2			1	1	1	1		1					
7					2	2		2					
5 (PRESENT Ø2)								1	1	1	1	1	
6								1					
8								3	3	3	1		1
120V COMMON			1	1	1	1		2	1	1	1		1
SIGNAL SERVICE	#10	T.W.											
LUMINAIRES	#8	T.H.W.		2	2	2			2	2	2		
INTERCONNECT (FUT.)													
TOTALS	#14	T.W.	10	16	13	25	2	56	23	21	21	2	11
	#12/2	P.E.	1	1	3	3	1	9	4	4	2	1	1
	#10	T.W.	1	1	1	1		2	1	1	1		1
	#8	T.H.W.		2	2	2			2	2	2		
EQUIV #14			(12.5)	(25.1)	(28.1)	(40.1)	(5.0)	(86.0)	(41.1)	(40.1)	(33.1)	(5.0)	(15.5)
CONDUIT SIZE			1 1/2"	2"	2"	2 1/2"	2"	3",2"	2 1/2"	2 1/2"	2"	2"	2"

TRAFFIC SIGNAL NOTES

1. TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 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 CITY TRAFFIC ENGINEER.
2. THIS TRAFFIC SIGNAL WORK REQUIRES A "STREET OPENING" PERMIT OBTAINED AT THE PUBLIC WORKS COUNTER ON THE THIRD FLOOR OF CITY HALL.
3. CONTACT TRAFFIC SIGNAL MAINTENANCE AT (714) 782-5748, 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION OF THE WORK PERFORMED. INSPECTION FEE FOR TRAFFIC SIGNAL MODIFICATIONS WILL BE AT THE RATE OF $29.35 PER HOUR.
4. ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS DESIGNATED REPRESENTATIVE PRIOR TO INSTALLATION BY THE CONTRACTOR.
5. DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE CITY TRAFFIC ENGINEER'S REPRESENTATIVE. ALL LOOPS SHALL BE 6' X 6'. SLOTS FOR THE DETECTOR LOOPS SHALL BE CUT TO A DEPTH THAT WILL PROVIDE FOR A 1" COVER OVER THE CONDUCTORS.
6. DETECTOR LOOP LEAD-IN CABLE SHALL BE TYPE B.
7. CONDUIT SHALL BE RIGID METALLIC CONDUIT. INTERMEDIATE METALLIC CONDUIT IS NOT ALLOWED.
8. PIPE MID-TENONS FOR MAST ARM MOUNTING (ENDS) SHALL BE PERPENDICULAR TO THE ARM.
9. CONDUCTORS FOR EACH DETECTOR LOOP SHALL BE TYPE 1.; LEAD-IN CABLE SHALL BE TYPE B.

CONSTRUCTION NOTES

- RR — REMOVE AND REUSE EQUIPMENT. EXISTING SIGNAL FOUNDATION BASE TO BE COMPLETELY REMOVED.
- 5 — INSTALL NEW #5 PULLBOX.
- D — INSTALL NEW DETECTOR LOOPS.
- CC — CONNECT NEW AND EXIST. CONDUIT. REMOVE EXIST. CONDUCTORS AND INSTALL NEW CONDUCTORS. NO SPLICING ALLOWED. CONTRACTOR TO INSTALL NEW CONDUCTORS FROM EXIST. CONTROLLER AND "P" CABINET TO SIGNAL POLE ON N.E. COR. OF PALOMAR AND ARLINGTON. REF. CONDUIT RUN 1-6.
- RN — REMOVE EXISTING SIGNAL EQUIPMENT, POLE AND FOUNDATION (FOUNDATION BASE TO BE COMPLETELY REMOVED). INSTALL NEW POLE, 24-4-80, 15' LA, 35' SA, NEW SIGNAL EQUIPMENT AND RELOCATE EXISTING LUMINAIRE.
- AB — ABANDON IN PLACE AND REMOVE CONDUCTORS.
- △# — INDICATES CONDUCTOR RUN. REFER TO CONDUCTOR SCHEDULE FOR SIZE, TYPE AND NUMBER OF REQUIRED CONDUCTORS. NEW CONDUCTORS SHALL BE PULLED FROM THE CONTROLLER. NO SPLICING ALLOWED. (INDICATES CONDUIT SIZE)
- R — REMOVE EXIST. PAVEMENT MARKINGS BY WET SANDBLASTING.
- S1 — PROP CROSSWALK STRIPING - 12" WIDE, WHITE
- S2 — PROP LEFT TURN ARROW - WHITE



REGISTERED PROFESSIONAL ENGINEER — MARC O. MOSBY — No. 42642 Exp 3-31-92 — CIVIL — STATE OF CALIFORNIA

JN BEELER and associates — LAND SURVEYING AND MAPPING
6104 RIVERSIDE AVENUE SUITE B
RIVERSIDE, CA. 92506
(714)682-2216

PLANS PREPARED UNDER THE SUPERVISION OF:
R.C.E. 42642 Exp. 3/31/92 DATE 7/27/90

MARK | REVISIONS | APPR. | DATE
DESIGNED BY LSLL | DRAWN BY EB. | CHECKED BY LSLL

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	2/28/91	
PARKS DEPARTMENT	—	—
TRAFFIC DIVISION	2/27/91	
CHIEF P.W. ENGINEER	2/28/91	
	2/28/91	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 3/1/91

ARLINGTON AVE. / PALOMAR WAY
TRAFFIC SIGNAL RELOCATION

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = NONE

ACCOUNT NO.
(X - 400A)
R-3164
SHEET 2 OF 2
89-338-01

INDEXED 3-8-91

DETECTOR SCHEDULE			
CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1I1U	3	
2	2I2U	2	
3	2I2L	1	
4	2I3U	4	
5	3I5U	3	
6	3I5L	3	
7	4I6U	3	
8	4I6L	3	
9	5J1U	3	
10	6J2U	2	
11	6J2L	4	
12	3I9L	4	

PHASE DIAGRAM

Ø1	Ø2	NOT USED	Ø4
Ø5	Ø6	NOT USED	Ø3 (OL)

FLASHING OPERATION SHALL BE ALL RED.

CONSTRUCTION NOTES

1.) RELOCATE STREET NAME SIGNS TO NEW POLES AS REQUIRED.

GENERAL NOTES

1 — *DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.*

2 — *ALL SIGNING, STRIPING AND PAVEMENT MARKING REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TURN–ON.*

3 — *TYPICAL DETECTOR LOOP SPACING: 10' AND 15'.*

4 — *PAVEMENT DELINEATION SHOWN HEREON IS FOR REFERENCE ONLY. CITY FORCES SHALL PERFORM ALL PERMANENT PAINTING (INSTALLATION AND REMOVALS) WORK.*

CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS I.M.S.A. SIZE	INSULATION	1	2	3	4	5	6	7	8	9	10
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12	P.E.	–	–	–	1	–	2	1	1	1	–
	9		1	2	1	3	–	6	2	1	–	–
	5		–	–	–	–	–	1	1	1	1	–
	3		1	2	1	4	–	8	3	2	1	–
DETECTOR CABLE	#16/2	P.E.	–	–	–	–	–	–	–	–	–	–
PHASE 1			–	–	–	–	–	1	1	1	1	1
PHASE 2			–	–	–	–	–	3	–	–	–	–
PHASE 3			–	–	–	–	–	3	3	3	–	–
PHASE 4			–	–	2	2	–	2	–	–	–	–
PHASE 5			–	–	–	–	1	1	–	–	–	–
PHASE 6			1	1	–	1	–	2	1	1	1	1
TOTALS	#16/2	P.E.	1	1	3	3	1	12	5	5	2	2
INTERCONNECT CABLE	#19	P.E.	–	–	–	–	–	–	–	–	–	–
I.I.S.N.S.	#12	T.W.	–	–	–	–	–	–	–	–	–	–
LUMINAIRES	#8	T.H.W.	–	2	2	2	–	–	2	–	–	–
SIGNAL SERVICE	#6	T.W.	–	–	–	–	–	2	–	–	–	–
CONDUIT SIZE			1.5"	2"	2"	2.5"	2"	2–3"	2.5"	2.5"	2"	2"
CONDUIT (E)=EXISTING (N)=NEW			(E)	(E)	(E)	(E)	(E)	(N)	(E)	(N)	(E)	(E)

NOTE:

1.) SEE CONTRACT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.S.M.A.
2.) CONDUIT RUNS 6 & 8 ARE NEW.
3.) SYSTEM SHALL HAVE NEW CABLES AND CONDUCTORS.

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG M.A.	LUM M.A.	LUM. HPSV	I.I.S.N.S. LEGEND	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	PED	AUDIBLE	PPB PHASE	REMARKS
A	29–5–80 (N)	30'	50' (N)	12' (N)	200W (R)		1W3C (N)	MAS (N)				RL VEHICLE HEADS, PEDESTRIAN HEAD, PPB AND LUMINAIRE TO NEW POLE. PROVIDE NEW EQUIPMENT AS INDICATED.
							1W3C (R)	MAS (R)				
							1W3C (R)	SV–1–T (R)	SP–1–T (R)	((•))	4(N)	
B	1–A (E)	10'					1W4C (N)	TV–1–T (N)	SP–1–T (E)	((•))	6(E)	PROVIDE NEW EQUIPMENT AS INDICATED.
C	17–2–70 (E)	30'	15' (E)	10' (E)	100W (E)		1W4C (N)	MAS (N)				PROVIDE NEW EQUIPMENT AS INDICATED.
							1W3C (N)	SV–1–T (N)	SP–1–T (E)	((•))	6(E)	
D	1–A (E)	10'					1W3C (N)	TV–1–T (N)	SP–1–T (E)	((•))	8(E)	PROVIDE NEW EQUIPMENT AS INDICATED.
E	27–4–80 (N)	17'	45' (N)				1W3C (N)	MAS (N)				RL PEDESTRIAN HEAD AND PPB TO NEW POLE. RS OTHER EQUIPMENT AND PROVIDE NEW EQUIPMENT AS INDICATED.
							1W3C (N)	MAS (N)				
							1W5C (N)	SV–1–T (N)	SP–1–T (R)	((•))	8(R)	
F	1–A (E)	10'					1W4C (N)	TV–1–T (N)	SP–1–T (E)	((•))	2(E)	PROVIDE NEW EQUIPMENT AS INDICATED.
G	19–2–70 (E)	30'	30' (E)	15' (E)	200W (E)		1W4C (N)	MAS (N)				PROVIDE NEW EQUIPMENT AS INDICATED.
							1W3C (N)	SV–1–T (N)	SP–1–T (E)	((•))	2(E)	
H	1–A (E)	10'					1W3C (N)	TV–1–T (N)	SP–1–T (E)	((•))	4(E)	PROVIDE NEW EQUIPMENT AS INDICATED.

(E)=EXISTING (N)=NEW (R)=RELOCATED

NOTE:

1. *NEW VEHICULAR HEADS SHALL HAVE 12" LENSES.*
2. *PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.*
3. *((•)) – INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED (SEE SPECIAL PROVISIONS).*
4. *EXISTING POLES NOT DESIGNATED TO BE REUSED SHALL BE REMOVED AND SALVAGED.*
5. *SEE DETAIL "B" FOR SIGNAL HEADS DESIGNATED AS 1W4C.*

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.

— FOR REFERENCE ONLY —

48 HOURS BEFORE YOU DIG CALL *UNDERGROUND SERVICE ALERT* 1–800–422–4133

FEDERAL AID PROJECT NO. STPLNHG–5058(19)

CONTRACTOR'S LICENSE REQUIREMENTS "A" OR "C–10"

CONTRACT TE–94–3

REGISTERED PROFESSIONAL ENGINEER RICHARD D. McGRATH No. 31952 CIVIL STATE OF CALIFORNIA

ENGINEER IN RESPONSIBLE CHARGE

Richard D. McGrath

RICHARD D. McGRATH
R.C.E. No. 31952 expires 12/31/96

DATE July 7, 1999

MARK	REVISIONS	APPR.	DATE

DESIGNED BY [signature] DRAWN BY BRM CHECKED BY [signature]

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[initials]	7/5/94
P.W. INSPECTION	[initials]	7/5/94
TRAFFIC DIVISION	[initials]	6/24/94
CHIEF P.W. ENGR.	[initials]	7/7/94
PUBLIC UTILITIES	[initials]	6/24/4

APPROVED BY [signature] DIRECTOR OF PUBLIC WORKS

DATE 7/7/94

TRAFFIC SIGNALS MODIFICATON

ARLINGTON AVENUE AND MADISON STREET

HORIZ. SCALE: 1" = 20'

ACCT. NO. 430–541600–440125–35058

X–400

SHEET 1 OF 1

FILE NO.