CONDUCTOR TABLE

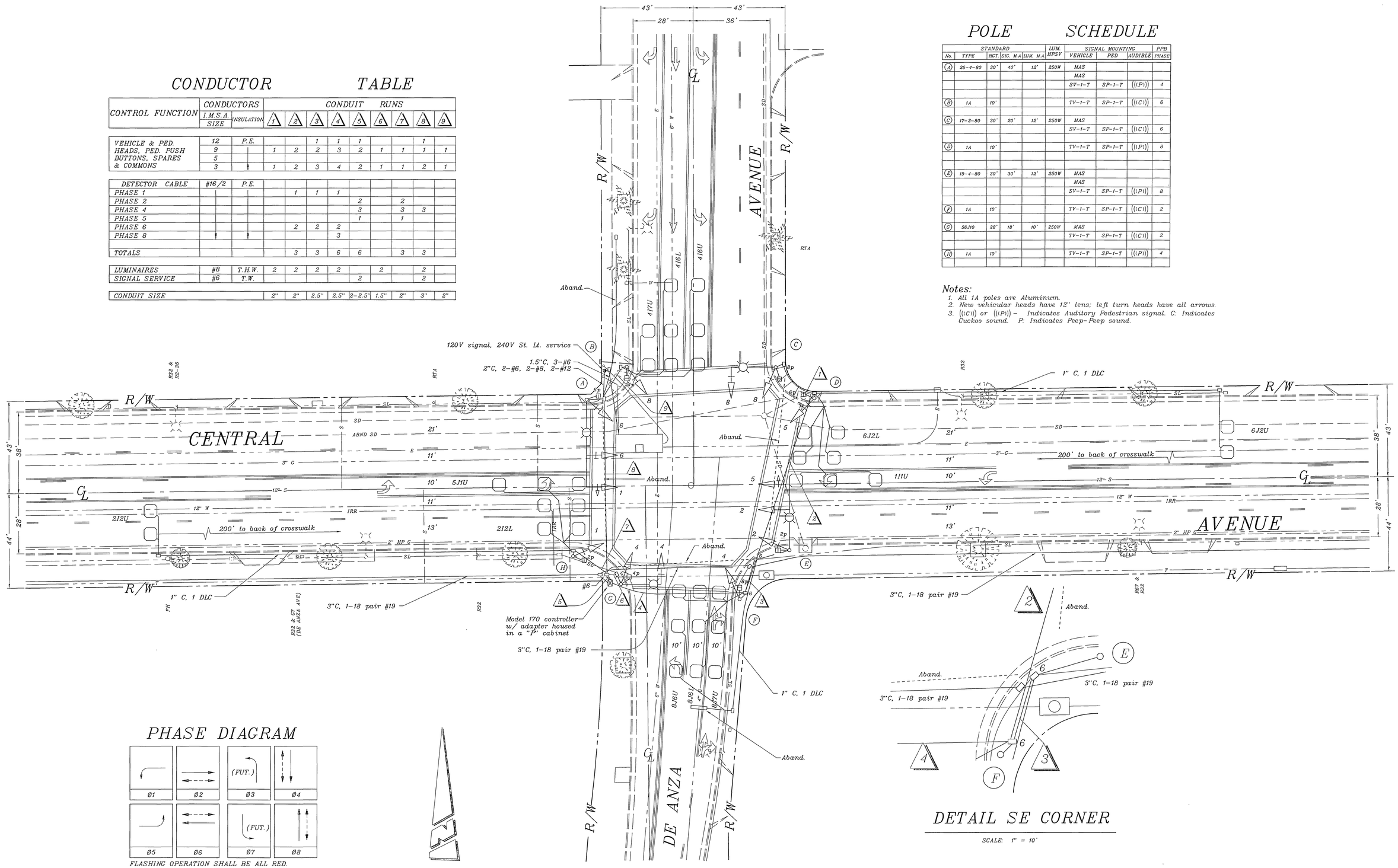
CONTROL FUNCTION	CONDUCTORS I.M.S.A. SIZE	INSULATION	CONDUIT RUNS 1	2	3	4	5	6	7	8	9
VEHICLE & PED. HEADS, PED. PUSH BUTTONS, SPARES & COMMONS	12	P.E.			1	1	1			1	
	9		1	2	2	3	2	1	1	1	1
	5										
	3		1	2	3	4	2	1	1	2	1
DETECTOR CABLE	#16/2	P.E.									
PHASE 1				1	1	1					
PHASE 2							2		2		
PHASE 4							3		3	3	
PHASE 5							1		1		
PHASE 6				2	2	2					
PHASE 8						3					
TOTALS				3	3	6	6		3	3	
LUMINAIRES	#8	T.H.W.	2	2	2	2		2		2	
SIGNAL SERVICE	#6	T.W.					2			2	
CONDUIT SIZE			2"	2"	2.5"	2.5"	2-2.5"	1.5"	2"	3"	2"

POLE SCHEDULE

No.	STANDARD TYPE	HGT.	SIG. M.A	LUM. M.A	LUM. HPSV	SIGNAL MOUNTING VEHICLE	PED	AUDIBLE	PPB PHASE
(A)	26-4-80	30'	40'	12'	250W	MAS			
						MAS			
						SV-1-T	SP-1-T	((P1))	4
(B)	1A	10'				TV-1-T	SP-1-T	((C1))	6
(C)	17-2-80	30'	20'	12'	250W	MAS			
						SV-1-T	SP-1-T	((C1))	6
(D)	1A	10'				TV-1-T	SP-1-T	((P1))	8
(E)	19-4-80	30'	30'	12'	250W	MAS			
						MAS			
						SV-1-T	SP-1-T	((P1))	8
(F)	1A	10'				TV-1-T	SP-1-T	((C1))	2
(G)	56J10	28'	18'	10'	250W	MAS			
						TV-1-T	SP-1-T	((C1))	2
(H)	1A	10'				TV-1-T	SP-1-T	((P1))	4

Notes:

1. All 1A poles are Aluminum.
2. New vehicular heads have 12" lens; left turn heads have all arrows.
3. ((C1)) or ((P1)) - Indicates Auditory Pedestrian signal. C: Indicates Cuckoo sound. P: Indicates Peep-Peep sound.



PHASE DIAGRAM

FLASHING OPERATION SHALL BE ALL RED.

MARK	REVISIONS	APPR.	DATE
	AS-BUILT PER TE-94-3	MAC	11/00
	AS-BUILT PER BETTERMENT	MAC	11/00
	AS-BUILT PER ST. WIDENING	JMW	8/67
	AS-BUILT PER SIGNALIZATION	ADD	3/62

DESIGNED BY MAC DRAWN BY MAC CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
ENGINEERING MANAGER		
PRINCIPAL ENGINEER		
PW INSPECTION		
TRAFFIC DIVISION		
PUBLIC UTILITIES		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

TRAFFIC SIGNAL

CENTRAL AVENUE @ DE ANZA AVENUE

SCALE: 1" = 20'

ACCT. NO.

X-220

SHEET 1 OF 1

FILE NAME: X220AS.DWG

NOTES—MODIFICATION

1. INSTALL ALL 6'X6' LOOP DETECTORS SHOWN.
2. PRESSURE PAD DETECTORS SHOWN ARE ABANDONED.
3. KEEP EXISTING CONDUIT AND CIRCUITS. NEW RUNS ARE A SUPPLEMENT TO THE EXISTING.
4. REPLACE ALL MAST-ARM SIGNALS WITH ALL 12" HEADS ON MAS MOUNTINGS.
5. INSTALL BACK PLATES FOR 3-8" HEADS.
6. FOR ADDITIONAL INFORMATION SEE PLAN No. X-220.
7. USE EXISTING SERVICE POLE (B). USE EXIST. PB FOR RUN △A. PROTECT SERVICE CONDUCTORS.
8. INSTALL 6' X 45' TYPE C LOOPS.
9. REPLACE INTERCONNECT CABLE
10. ✱ USE 2-CHANNEL SENSOR WITH INTEGRAL ADJUSTABLE EXTENSION TIMER. ONE INPUT TO CONTROLLER AND ONE INPUT FOR SAMPLING.

POLE AND SIGNAL SCHEDULE

LOCATION	STANDARD	LUMINAIRE	SIGNALS TYPE	SIGNALS MTG.	SIGNALS LENS SIZE	WALK-DON'T WALK TYPE	WALK-DON'T WALK MTG.	PPB PHASE
A(E)	56J10G18	20,000 MV	2-W3C 1-W3C	B-2 18' MA	3-8" 1-12" 2-8"	—	—	4(E)
B(E)	TYPE 1-10'	SIGNAL DISCONNECT				C(N) 2-W2C	SP-2-T (N)	2(N)
C(E)	56J10G18	20,000 MV	2-W3C(M) 1-W3C	B-2 (M) 18' MA	3-8" 1-12" 2-8"	—	—	2(E)
D(E)	56J10G18	20,000 MV	2-W3C(M) 1-W3C	B-2 (M) 18' MA	3-8" 1-12" 2-8"	—	—	4(E)
E(E)	56J10G18	20,000 MV	2-W3C(M) 1-W3C	B-2 (M) 18' MA	3-8" 1-12" 2-8"	—	—	2(E)
F (N)	1-A 10'	—	1-W-3C (E) FROM POLE E	TV-1 (N)	3-8"	C(N) 2-W2C	SP-2-T (N)	4(N)
G (N)	1-A 10'	—	1-W-3C (E) FROM POLE C	TV-1 (N)	3-8"	C(N) 2-W2C	SP-2-T (N)	4(N)
H (N)	1-A 10'	—	1-W-3C (E) FROM POLE D	TV-1 (N)	3-8"	C(N) 2-W2C	SP-2-T (N)	2(N)

(E) = EXISTING EQUIPMENT
(N) = NEW EQUIPMENT
(M) = MODIFY

NOTES:
LUMINAIRES:
Shall be Mercury Vapor, Line Materials L.M. 3A7 or equal.

EXISTING CONDUCTOR SCHEDULE

CONDUCTOR RUN	△1				△2				△3				△4				△5				△6				△7			
CONDUCTORS	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14
ØA				3				9				3				3												
ØB				3				9				3				3												
SPARES				3				3				3				3												
120 V. NEUTRAL		1				1				1				1														
ØB P.P.B.				1				4				2				1												
ØB DET			2				3				1																	
12 V. NEUTRAL			1				1				1				1													
SIGNAL SERVICE	2				2																							
LUMINAIRES	2								2				2															
TOTAL CONDUCTORS	4	1	3	10	2	1	4	25	2	1	2	11	2	1	1	10												
CONDUIT SIZE	2"								1½"				1½"															

SENSOR TABLE

SENSOR	LOOP DETECTORS	
1	1-E-2	(3)
2	2-E-2	(4)
3	3-E-2	✱ (2)
4	1-W-2	(3)
5	2-W-2	(4)
6	3-W-2	✱ (2)
7	1-N-4	(3)
8	2-N-4	(3)
9	1-S-4	(1)
10	1-S-4	(1)
11	3-N-4	(3)

( ) = NUMBER OF LOOPS PER SENSOR SEE NOTE 10.

DETECTOR PLACEMENT: 6' 10' 6' 15' 6' 6'

CONDUCTOR TABLE

AWG	CIRCUIT	RUNS △A	△B	△C	△D
#14	Ø2	–	3	3	3
	Ø4	–	–	3	–
	Ø2 PED	2	2	2	2
	Ø4 PED	2	2	2	2
	Ø2 PPB	1	1	1	1
	Ø4 PPB	1	1	1	1
	PPB COMMON	1	1	1	1
	SPARES	3	3	3	3
	TOTAL	10	13	16	13
2-#12 CABLE	Ø2 DETECTOR	–	3	3	3
	Ø4 DETECTOR	3	3	2	–
	TOTAL	3	6	5	3
#10					
	SIGNAL COMMON	1	1	1	1
	TOTAL	1	1	1	1
CONDUIT SIZE		1 1/2"	2 1/2"	2 1/2"	2"

RUN △B INTO INTECONNECT PB AT CONTROLLER AND USE EXIST. 3"C INTO CONTROLLER.

A.D.D. 3/21/62 As-Built
8-10-67 As Built M.W.

TRAFFIC SIGNALS

CENTRAL AVENUE & DE ANZA AVENUE

X-220

3/16/59

47 50

MISSION BLUEPRINT CO.

SCALE:
1"=20'

POLE AND SIGNAL SCHEDULE

LOCATION	STANDARD	LUMINAIRE	SIGNALS			WALK-DON'T WALK		PPB
			TYPE	MTG.	LENS SIZE	TYPE	MTG.	PHASE
A (E)	56J10G18	20,000 MV	2-W3C 1-W3C	B-2 18' MA	3-8" 1-12" 2-8"	—	—	4(E) 2(N)
B (E)	TYPE 1-10'	SIGNAL DISCONNECT				C(N) 2-W2C	SP-2-T (N)	2(N)
C (E)	56J10G18	20,000 MV	2-W3C(M) 1-W3C	B-2 (M) 18'MA	3-8" 1-12" 2-8"	—	—	2(E)
D (E)	56J10G18	20,000 MV	2-W3C(M) 1-W3C	B-2 (M) 18'MA	3-8" 1-12" 2-8"	—	—	4(E)
E (E)	56J10G18	20,000 MV	2-W3C(M) 1-W3C	B-2 (M) 18'MA	3-8" 1-12" 2-8"	—	—	2(E)
Ⓕ (N)	1-A 10'	—	1-W-3C (E) FROM POLE E	TV-1 (N)	3-8"	C(N) 2-W2C	SP-2-T (N)	4(N)
Ⓖ (N)	1-A 10'	—	1-W-3C(E) FROM POLE C	TV-1(N)	3-8"	C(N) 2-W2C	SP-2-T (N)	4(N)
Ⓗ (N)	1-A 10'	—	1-W-3C(E) FROM POLE D	TV-1(N)	3-8"	C(N) 2-W2C	SP-2-T (N)	2(N)

(E) = EXISTING EQUIPMENT
(N) = NEW EQUIPMENT
(M) = MODIFY

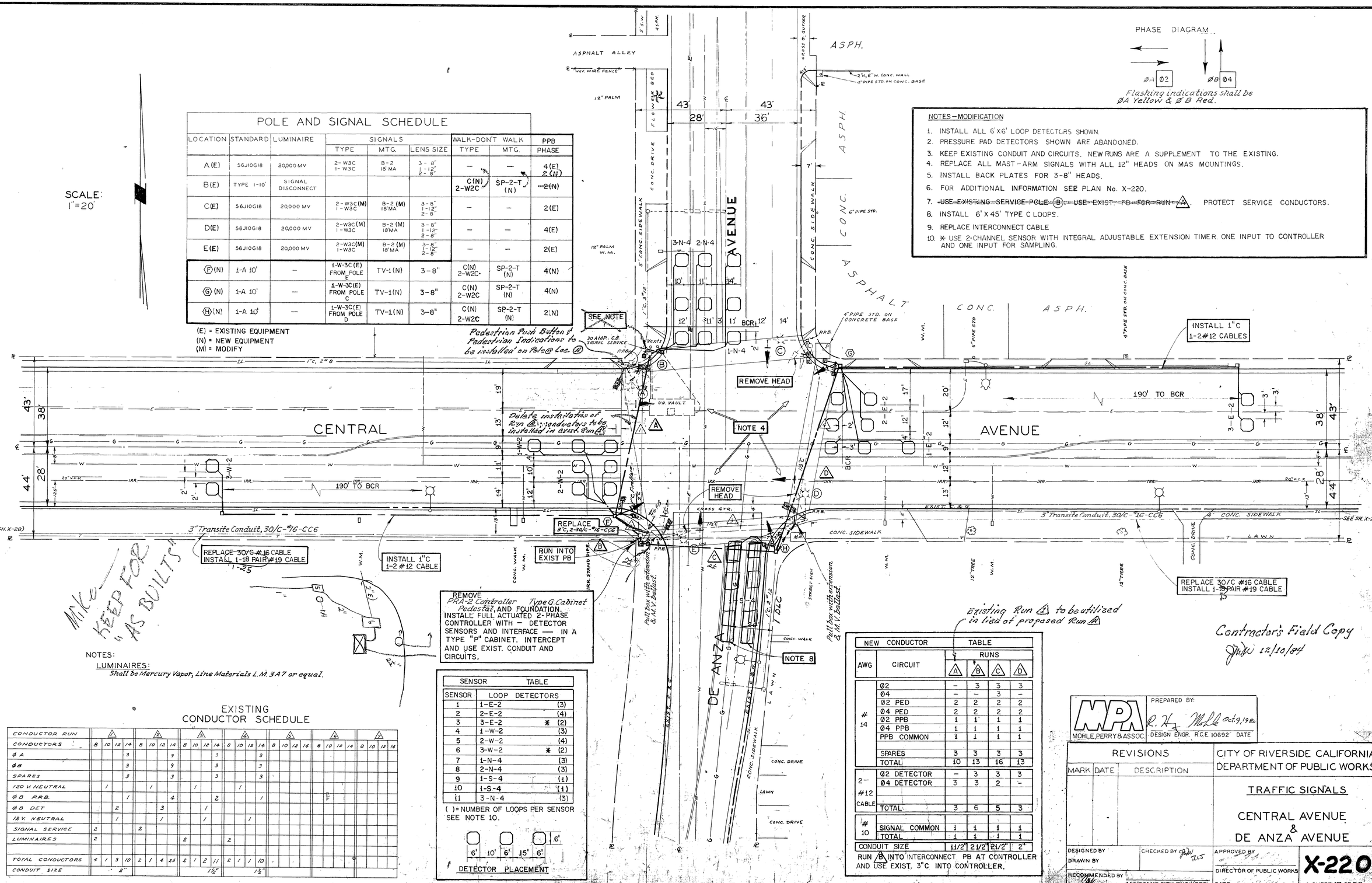
PHASE DIAGRAM

ØA 02 ØB 04

Flashing indications shall be ØA Yellow & ØB Red.

NOTES – MODIFICATION

1. INSTALL ALL 6'X6' LOOP DETECTORS SHOWN.
2. PRESSURE PAD DETECTORS SHOWN ARE ABANDONED.
3. KEEP EXISTING CONDUIT AND CIRCUITS. NEW RUNS ARE A SUPPLEMENT TO THE EXISTING.
4. REPLACE ALL MAST-ARM SIGNALS WITH ALL 12" HEADS ON MAS MOUNTINGS.
5. INSTALL BACK PLATES FOR 3-8" HEADS.
6. FOR ADDITIONAL INFORMATION SEE PLAN No. X-220.
7. ~~USE EXISTING SERVICE POLE Ⓑ USE EXIST. PB FOR RUN Ⓐ~~. PROTECT SERVICE CONDUCTORS.
8. INSTALL 6'X45' TYPE C LOOPS.
9. REPLACE INTERCONNECT CABLE
10. * USE 2-CHANNEL SENSOR WITH INTEGRAL ADJUSTABLE EXTENSION TIMER. ONE INPUT TO CONTROLLER AND ONE INPUT FOR SAMPLING.



Mike — KEEP FOR "AS BUILTS" 1-25

NOTES:
LUMINAIRES:
Shall be Mercury Vapor, Line Materials L.M. 3A7 or equal.

REMOVE PRA-2 Controller Type G Cabinet Pedestal, AND FOUNDATION
INSTALL FULL ACTUATED 2-PHASE CONTROLLER WITH – DETECTOR SENSORS AND INTERFACE — IN A TYPE "P" CABINET. INTERCEPT AND USE EXIST. CONDUIT AND CIRCUITS.

EXISTING CONDUCTOR SCHEDULE

CONDUCTOR RUN	Ⓐ				Ⓑ				Ⓒ				Ⓓ				Ⓔ				Ⓕ				Ⓖ			
CONDUCTORS	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14	8	10	12	14
ØA				3				9				3				3												
ØB				3				9				3				3												
SPARES				3				3				3				3												
120 V NEUTRAL		/				/				/				/														
ØB P.P.B.				/				4				2				/												
ØB DET			2				3				/																	
12 V. NEUTRAL			/				/				/				/													
SIGNAL SERVICE	2					2																						
LUMINAIRES	2								2				2															
TOTAL CONDUCTORS	4	/	3	10	2	/	4	25	2	/	2	11	2	/	/	10												
CONDUIT SIZE	2"								1½"				1½"															

SENSOR TABLE

SENSOR	LOOP DETECTORS
1	1-E-2 (3)
2	2-E-2 (4)
3	3-E-2 * (2)
4	1-W-2 (3)
5	2-W-2 (4)
6	3-W-2 * (2)
7	1-N-4 (3)
8	2-N-4 (3)
9	1-S-4 (1)
10	1-S-4 (1)
11	3-N-4 (3)

( )=NUMBER OF LOOPS PER SENSOR SEE NOTE 10.

DETECTOR PLACEMENT

Existing Run Ⓐ to be utilized in lieu of proposed Run Ⓐ

NEW CONDUCTOR TABLE

AWG	CIRCUIT	RUNS Ⓐ	Ⓑ	Ⓒ	Ⓓ
# 14	Ø2	–	3	3	3
	Ø4	–	–	3	–
	Ø2 PED	2	2	2	2
	Ø4 PED	2	2	2	2
	Ø2 PPB	1	1	1	1
	Ø4 PPB	1	1	1	1
	PPB COMMON	1	1	1	1
	SPARES	3	3	3	3
	TOTAL	10	13	16	13
2-#12 CABLE	Ø2 DETECTOR	–	3	3	3
	Ø4 DETECTOR	3	3	2	–
	TOTAL	3	6	5	3
# 10	SIGNAL COMMON	1	1	1	1
	TOTAL	1	1	1	1
CONDUIT SIZE		1½"	2½"	2½"	2"

RUN Ⓑ INTO INTERCONNECT PB AT CONTROLLER AND USE EXIST. 3"C INTO CONTROLLER.

Contractor's Field Copy
12/10/84

MPA MOHLE, PERRY & ASSOC.
PREPARED BY: R. H. Mohle Oct 9, 1986
DESIGN ENGR. R.C.E. 10692 DATE

REVISIONS			CITY OF RIVERSIDE CALIFORNIA
MARK	DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
			TRAFFIC SIGNALS
			CENTRAL AVENUE & DE ANZA AVENUE

DESIGNED BY
DRAWN BY
CHECKED BY
RECOMMENDED BY ASSISTANT CITY ENGINEER
APPROVED BY DIRECTOR OF PUBLIC WORKS
DATE

X-220
SHEET 47 OF 50

MISSION BLUEPRINT CO.