EQUIPMENT SCHEDULE

NO.	SIGNAL STANDARD TYPE	H'GHT	M.A.	LUMINAIRE M.A.	LUMINAIRE H.P.S.V.	I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS VEHICLE	SIGNAL MOUNTINGS PEDESTRIAN	SIGNAL MOUNTINGS AUDIBLE	PPB PHASE	REMARKS
A	II(E)	20'	20'(E)				MAS(E)				
							SV-1-T(E)				
B	1A(E)	10'					TV-1-T(M)	SP-1-T(E)		2(E)	SEE NOTE 5
C	19-3-70(E)	30'	30'(E)	12'(E)	250W(E)		MAS(E)				SEE NOTES 4 & 5
							SV-1-T(M)	SP-1-T(E)		2(E)	
D	1A(N)	10'					TV-1-T(N)	SP-1-T(R)		4(E)	SEE NOTE 4
E	24A-4-70(E)	35'	35'(E)	15'(E)	400W(E)		MAS(E)				
							MAS(E)				
							SV-2-TA(E)	SP-2-T(E)		4(E)	
F	PPB(E)	3'-10"								2(E)	RS
G	17-2-80(N)	30'	20'(N)	12'(N)	250W(R)		MAS(N)				
							SV-1-T(N)			2(N)	
H	1A(N)	10'					TV-2-T(N)	SP-1-T(N)		2(N)	

(E)=EXISTING (M)=MODIFY (N)=NEW (R)=RELOCATE

NOTES:

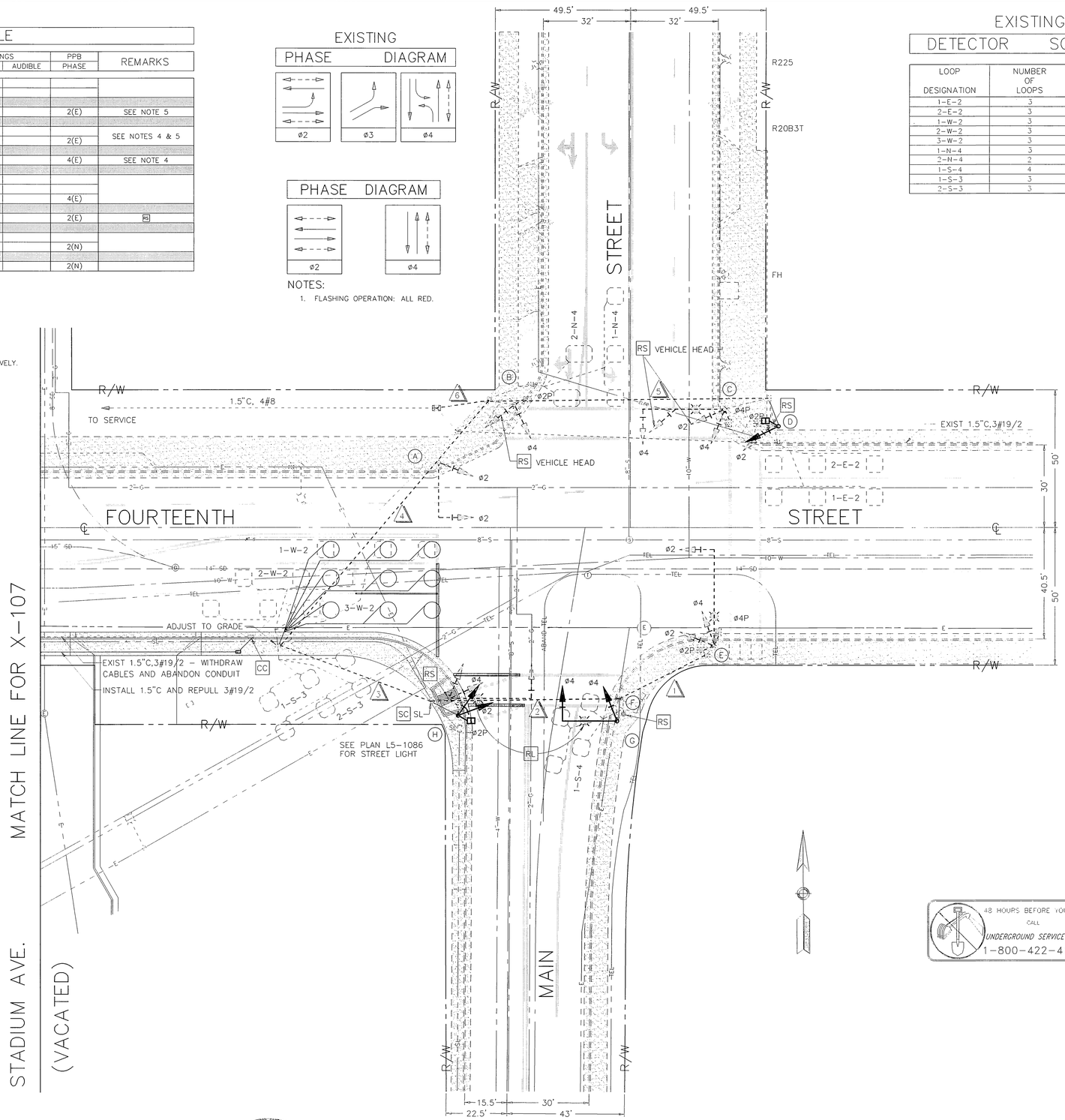
1. NEW VEHICULAR HEADS SHALL HAVE 12" LENSES.
2. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
3. EQUIPMENT NOT TO BE REUSED SHALL BE SALVAGE.
4. REMOVE AND SALVAGE VEHICLE HEAD.
5. MODIFY TV-2-T AND SV-2-T MOUNTINGS TO TV-1-T AND SV-1-T MOUNTING RESPECTIVELY.

EXISTING PHASE DIAGRAM

PHASE DIAGRAM

NOTES:

1. FLASHING OPERATION: ALL RED.



EXISTING DETECTOR SCHEDULE

LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1-E-2	3	
2-E-2	3	
1-W-2	3	
2-W-2	3	
3-W-2	3	
1-N-4	3	
2-N-4	2	6' X 10' LOOPS
1-S-4	4	
1-S-3	3	TO BE ABANDON
2-S-3	3	TO BE ABANDON

EXISTING CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	CONDUCTORS INSULATION	CONDUIT RUNS 1	2	3	4	5	6	7	8	9
VEHICLE HEADS	#14	T.W.	–	–	–	–	–	–	–	–	–
PHASE 2			3	3	3	3	3	6	–	–	–
PHASE 4			3	3	3	3	3	6	–	–	–
PHASE 3			–	–	–	–	3	6	–	–	–
PED. HEADS			–	–	–	–	–	–	–	–	–
PHASE 2			2	2	2	2	2	6	–	–	–
PHASE 4			2	2	2	2	2	4	–	–	–
PED. PUSH BUTTON			–	–	–	–	–	–	–	–	–
PHASE 2			–	1	2	2	1	4	–	–	–
PHASE 4			1	1	1	1	1	2	–	–	–
SPARES			3	3	3	3	3	6	–	–	–
12V COMMON	#12	T.W.	1	1	1	1	1	3	–	–	–
SPARES			–	–	–	–	–	–	–	–	–
DETECTORS	#12/2	P.E.	–	–	–	–	–	–	–	–	–
PHASE 2			–	–	–	3	2	5	–	–	–
PHASE 4			–	1	1	1	–	3	–	–	–
PHASE 3			–	–	–	2	–	2	–	–	–
I.I.S.N.S.	#12	T.W.	–	–	–	–	–	–	–	–	–
120V COMMON	#10	T.W.	1	1	1	1	1	3	–	–	–
LUMINAIRES	#8	T.H.W.	2	2	2	2	2	4	–	–	–
LIGHTING SERVICE	#8	T.H.W.	–	–	–	–	2	2	–	–	–
SIGNAL SERVICE	#8	T.H.W.	–	–	–	–	–	–	–	–	–
INTERCONNECT	#19	P.E.	–	–	–	–	–	–	–	–	–
TOTALS	#14	T.W.	12	18	19	19	18	43	–	–	–
	#12	T.W.	1	1	1	1	1	3	–	–	–
	#10	T.W.	3	3	3	3	3	7	–	–	–
	#8	T.H.W.	–	–	–	–	2	2	–	–	–
	#12/2	P.E.	–	1	1	6	2	10	–	–	–
INTERCONNECT	#19	P.E.	–	–	–	–	–	–	–	–	–
#14 EQUIV.			–	–	–	–	–	–	–	–	–
CONDUIT SIZE			2"	2"	2"	3"	2.5"	2-3"	–	–	–
CONDUIT (E)=EXISTING (N)=NEW			(E)	(E)	(E)	(E)	(E)	(E)	–	–	–

NOTE: USE EXISTING PHASE 3 CONDUCTORS FOR PHASE 2 AT LOCATION (D); LABEL IN PULLBOXES AND CABINET.

GENERAL NOTES

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

2 —— ALL 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.

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

PAVEMENT DELINEATION

FOR REFERENCE ONLY

INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.

INDICATES STRIPING AND PAVEMENT MARKINGS TO REMAIN.

INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

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

ENGINEER IN RESPONSIBLE CHARGE

RICHARD D. McGRATH
R.C.E. NO. 31952 EXPIRES 12-31-96
DATE 10-3-95

MARK REVISIONS APPR. DATE

DESIGNED BY ___ DRAWN BY GRM CHECKED ___

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		9/18/95
P.W. INSPECTION		9/18/95
TRAFFIC DIVISION		9/18/95
CHIEF P.W. ENGR.		9/18/95
PUBLIC UTILITIES		9/18/95

APPROVED BY ___ DIRECTOR OF PUBLIC WORKS
DATE 10/2/95

TRAFFIC SIGNAL REVISION

FOURTEENTH STREET AND MAIN STREET

SCALE: 1" = 20'

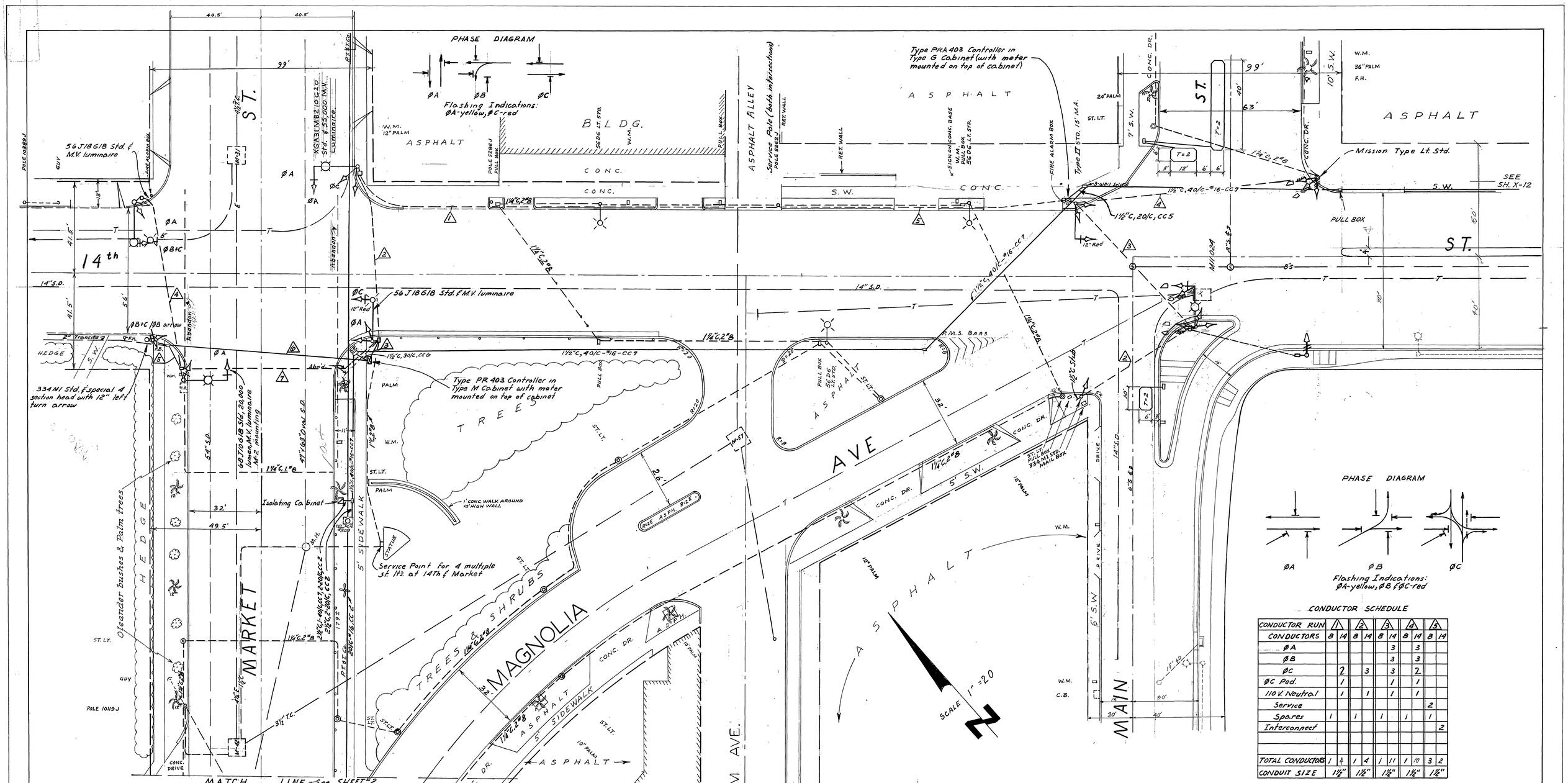
ACCT. NO. 0430-541600-440222-30239

X-107A

SHEET 1 OF 1

FILE NAME: X-107A.DWG

INDEX 11-9-95 GH
FILE W/ #-3326



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				3				3				3				3				
ØB Arrow																								1				
ØB+C																3				3				3				
ØC								3				3																
110V. Neutral						1				1						1		1				1						
Signal Service	2				2				2																			
Lighting Service					2				2				2				2				2							
Spares								3				3				3				3				3				
ØB Det. (Future)											1																	
ØC Det. (Future)				2			2				2												2					
12V. Neutral (Future)	1						1				1												1					
Interconnect																												
TOTAL CONDUCTORS	3			2	4	1	3	9	4	1	4	9	2			10	2	1		9	2	1	3	10				
CONDUIT SIZE	1½"				1½"				2"				1½"				1½"				2"				1½" Abn'd			

CONDUCTOR SCHEDULE

CONDUCTOR RUN	1				2				3				4				5				6				7			
CONDUCTORS	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14	8	14
ØA						3		3																				
ØB						3		3																				
ØC		2		3		3		2																				
ØC Ped.		1				1		1																				
110V. Neutral		1		1		1		1																				
Service																									2			
Spares	1		1		1		1		1																1			
Interconnect																										2		
TOTAL CONDUCTORS	1	4	1	4	1	11	1	10	3	2																		
CONDUIT SIZE	1½"		1½"		1½"		1½"		1½"																			

REVISIONS

MARK	DATE	DESCRIPTION
	10-25-60	Interconnect Conduit "As-Built" A.D.D.
	4-17-62	As Built add
	7-15-66	As Built. Market (St. Widening M.G.
	8-11-68	As Built N/W Corner (Main & M.)
	5-11-77	As Built S/E Corner 14th & M.W. Main

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

INTERSECTION STUDY

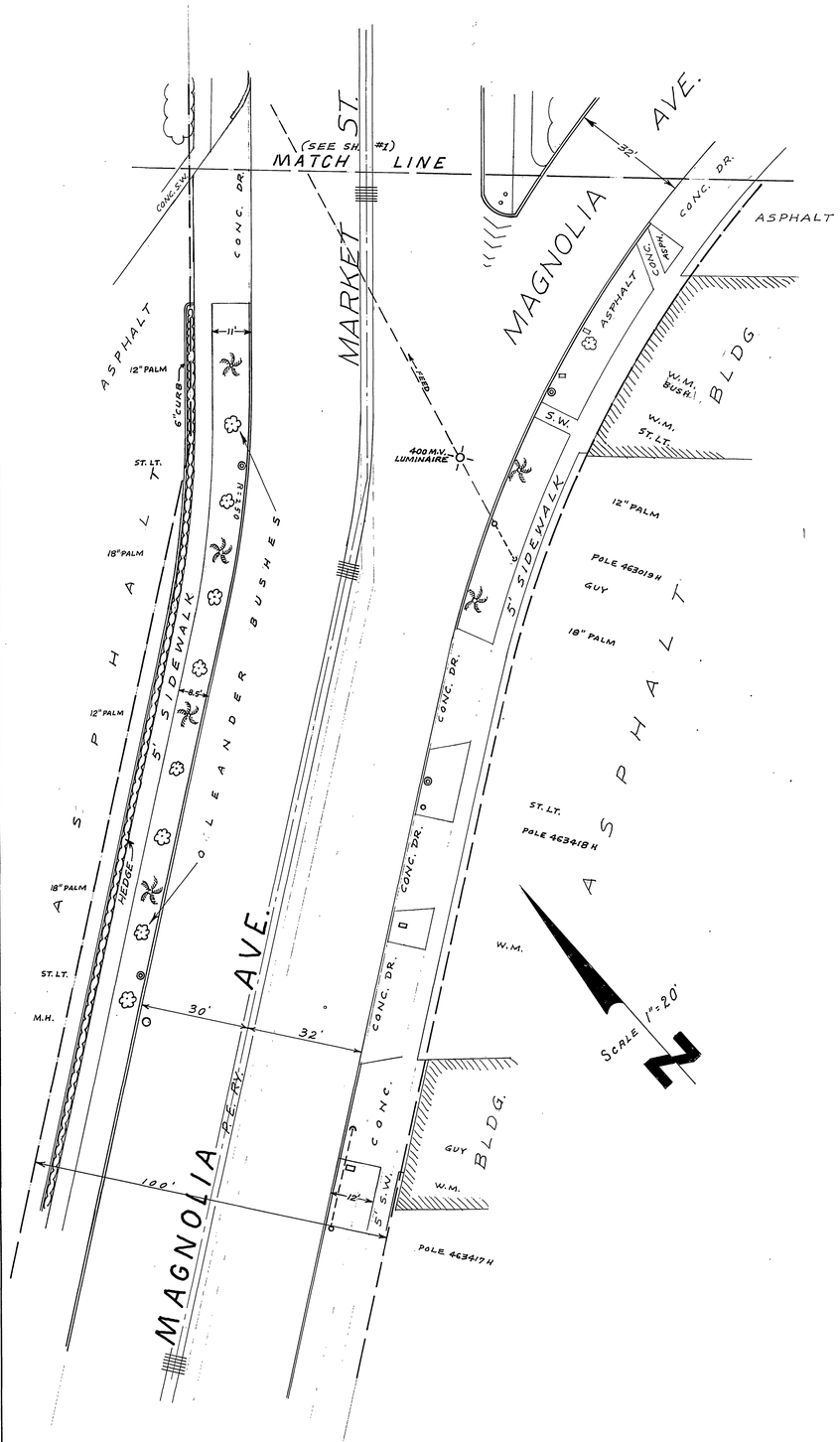
MAGNOLIA AVE., MARKET ST., FOURTEENTH ST., MAIN ST. AND CYPRESS ST.

B. P. H. Ball

DATE 5-11-62

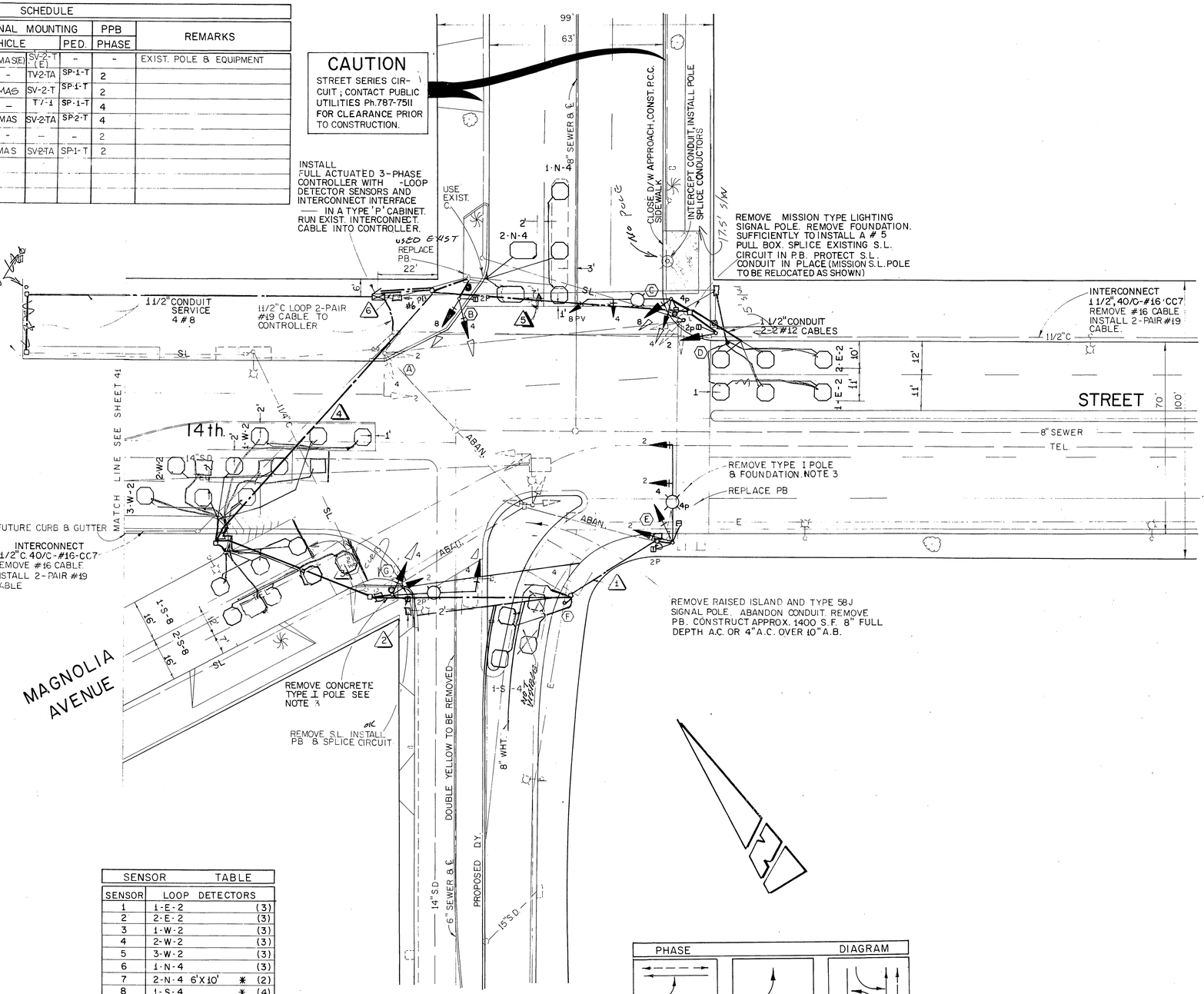
X-107

SHEET 1 of 2



REVISIONS		CITY OF RIVERSIDE CALIFORNIA
DATE	DESCRIPTION	DEPARTMENT OF PUBLIC WORKS
		INTERSECTION STUDY MAGNOLIA AVE., MARKET ST., FOURTEENTH ST., MAIN ST. AND CYPRESS ST.
B. P. H.Ball	CHECKED BY	APPROVED BY
	ASST. CITY ENGINEER	DIRECTOR OF PUBLIC WORKS DATE
		X-107 SHEET 2 2

POLE SCHEDULE											
STANDARD				LUMINAIRE		SIGNAL MOUNTING			PPB	REMARKS
No.	TYPE	HEIGHT	SIG.M.A.	LUM.M.A.			VEHICLE		PED.	PHASE	
A	II (E)	20'	20'	–	–	–	MAS(E)	SV-2-T (E)	–	–	EXIST. POLE & EQUIPMENT
B	1-A	10'	–	–	–	–	–	TV-2-TA	SP-1-T	2	
C	19-3-70	30'	30'	12'	250WHPSV	–	MAS	MAS	SV-2-T	SP-1-T	2
D	1-A	10'	–	–	–	–	–	–	TV-1	SP-1-T	4
E	24A-4-70	35'	35'	15'	400WHPSV	–	MAS	MAS	SV-2-TA	SP-2-T	4
F	PPB	3'-10"	–	–	–	–	–	–	–	–	2
G	19-3-70	30'	30'	15'	250 WHPSV	–	–	MAS	SV-2-TA	SP-1-T	2



NOTES

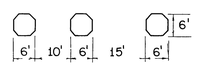
1. ABANDON EXISTING CONDUIT EXCEPT WHERE NOTED OTHERWISE. REMOVE AND DO NOT REUSE CONDUCTORS FROM ABANDONED CONDUIT.
2. REMOVE ALL SIGNAL POLES AND HARDWARE AS NOTED.
3. REMOVE FOUNDATION SUFFICENTLY TO REPLACE SURFACE MATERIAL AT GRADE.
4. SEE PLAN No. X-107 FOR ADDITIONAL INFORMATION.
5. STREET PAINTING AND REMOVAL BY OTHERS.

CONDUCTOR TABLE									
AWG	CIRCUIT	RUNS 1	2	3	4	5	6	7	
#14	Ø 2	3	3	3	3	3	6		
	Ø 4	3	3	3	3	3	6		
	Ø 8	-	3	3	3	3	9		
	Ø 2 PED	-	2	2	2	2	6		
	Ø 4 PED	2	2	2	2	2	4		
	Ø 2 PPB	-	1	2	2	1	4		
	Ø 4 PPB	1	1	1	1	1	2		
	SPARES	3	3	3	3	3	6		
	TOTAL	12	18	19	19	18	43		
#12	PPB COMMON	1	1	1	1	1	3		
	SPARES	-	1	1	1	1	2		
	TOTAL	1	2	2	2	2	5		
2 - #12 CABLE	Ø 2 DETECTOR	-	-	-	3	2	5		
	Ø 4 "	-	1	1	1	-	3		
	Ø 8	-	-	-	2	-	2		
	TOTAL CABLES	-	1	1	6	2	10		
#10	LUMINAIRE	-	2	2	2	2	4		
	SIGNAL COMMON	1	1	1	1	1	3		
	TOTAL	1	3	3	3	3	7		
# 8	LIGHTING SERVICE	-	-	-	-	2	2		
CONDUIT SIZE		2"	2"	2"	3"	2 1/2"	2-3"		

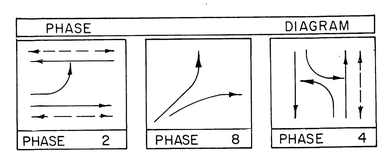
SENSOR TABLE		
SENSOR	LOOP DETECTORS	
1	1-E-2	(3)
2	2-E-2	(3)
3	1-W-2	(3)
4	2-W-2	(3)
5	3-W-2	(3)
6	1-N-4	(3)
7	2-N-4 6'X10' *	(2)
8	1-S-4 *	(4)
9	1-S-8	(3)
10	2-S-8	(3)

* = SENSOR SHALL HAVE AN INTEGRAL ADJUSTABLE DELAY TIMER.

( ) = NUMBER OF LOOPS PER SENSOR.



DETECTOR PLACEMENT



AS BUILT 5-15-85

MPA MOHLE, PERRY & ASSOC.

PREPARED BY: R. Henry Mohle 8/9/88

DESIGN ENGR. R.C.E. 10692 DATE:

MARK	REVISIONS	APPR.	DATE

DESIGNED BY J.J.S. DRAWN BY A.G.B. CHECKED BY R.H.M.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/1/89
PARK DEPARTMENT		
TRAFFIC DIVISION		12/12
CHIEF P. W. ENGR.		12/12
PUBLIC UTILITIES		12/12

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE

TRAFFIC SIGNAL PLAN MAGNOLIA AVENUE AT 14 TH & MAIN STREET

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 20'

PROJECT NO.

SHEET 42 OF 50

FILE NO.