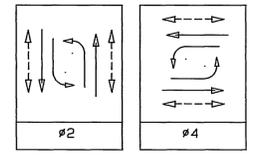


CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
PHASE 2	#14	3	3	3	3	3	6	3	3
PHASE 4			3	3	3	3	6		
PHASE 2 PED		2	2	2	2	2	4	2	2
PHASE 4 PED			2	2	2	2	4	2	
PHASE 2 PPB		1	1	1	1	1	2	1	1
PHASE 4 PPB		1	1	1	1	1	2	1	
SPARE		3	3	3	3	3	6	3	3
TOTAL		9	15	15	15	15	27	12	9
DETECTOR CABLE	#16/2								
PHASE 2		1	1	1	1	4	4		
PHASE 4				2	2	2	3	1	
INTERCONNECT CABLE	6 PAIR #19					1	1		
PPB COMMON	#12	1	1	1	1	1	2	1	1
LUMINAIRES	#8		2	2	2	2	4	2	2
SERVICE	#6					4	2		
CONDUIT SIZE		2"	3"	3"	3"	3"	2"	2"	

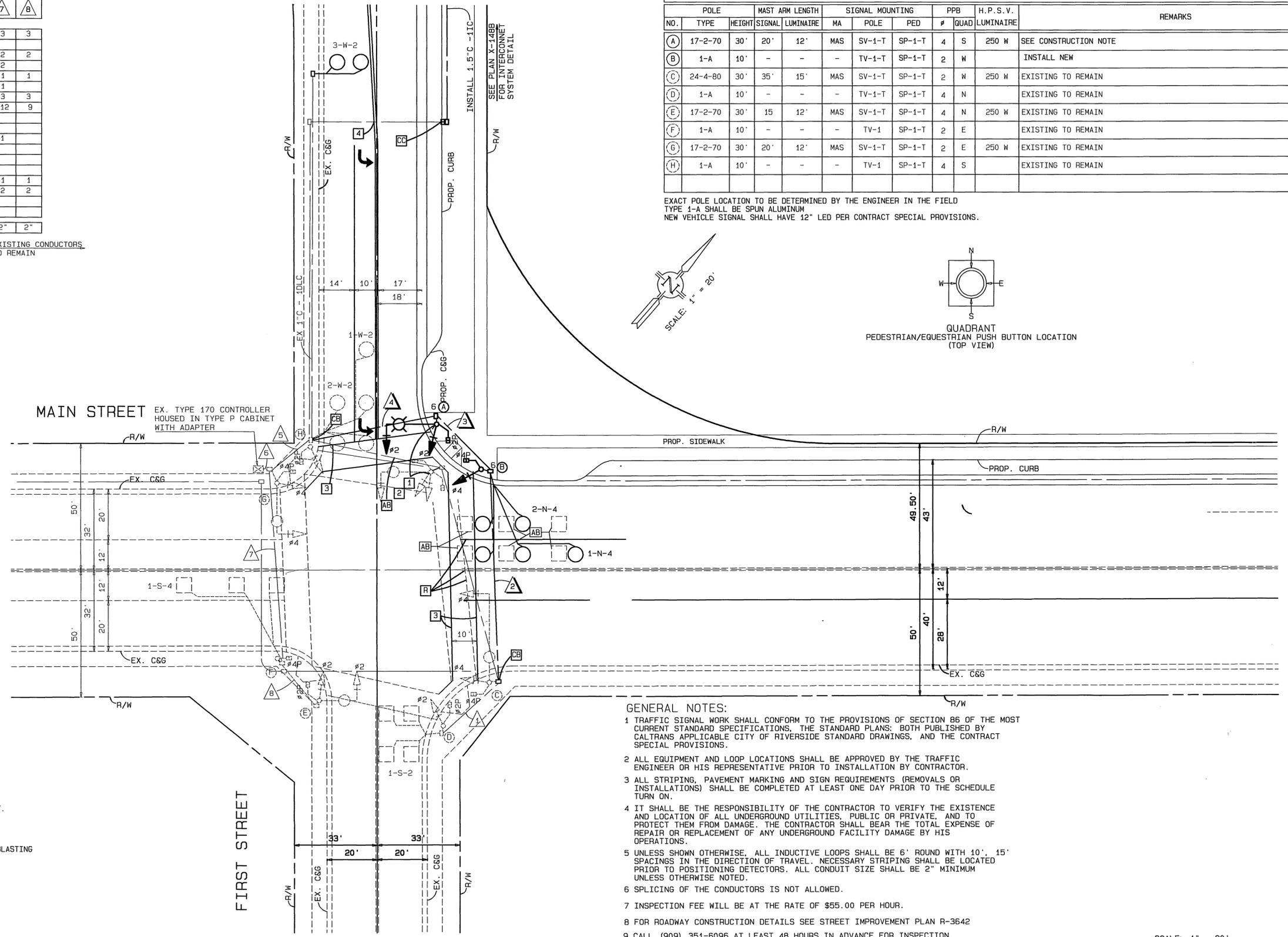
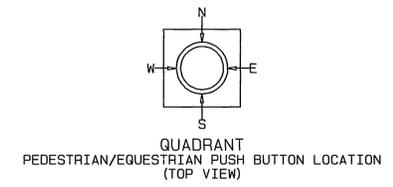
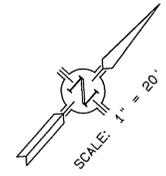
▲ EXISTING CONDUIT TO REMAIN → INSTALL ALL NEW CONDUCTOR ▲ EXISTING CONDUCTORS TO REMAIN
 ▲ INSTALL NEW CONDUIT (SIZE AS SHOWN)

PHASE DIAGRAM



POLE SCHEDULE											
NO.	TYPE	POLE HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING		PPB #	QUAD	H. P. S. V. LUMINAIRE	REMARKS	
			SIGNAL	LUMINAIRE	MA	POLE					
(A)	17-2-70	30'	20'	12'	MAS	SV-1-T	SP-1-T	4	S	250 W	SEE CONSTRUCTION NOTE
(B)	1-A	10'	-	-	-	TV-1-T	SP-1-T	2	W		INSTALL NEW
(C)	24-4-80	30'	35'	15'	MAS	SV-1-T	SP-1-T	2	W	250 W	EXISTING TO REMAIN
(D)	1-A	10'	-	-	-	TV-1-T	SP-1-T	4	N		EXISTING TO REMAIN
(E)	17-2-70	30'	15'	12'	MAS	SV-1-T	SP-1-T	4	N	250 W	EXISTING TO REMAIN
(F)	1-A	10'	-	-	-	TV-1	SP-1-T	2	E		EXISTING TO REMAIN
(G)	17-2-70	30'	20'	12'	MAS	SV-1-T	SP-1-T	2	E	250 W	EXISTING TO REMAIN
(H)	1-A	10'	-	-	-	TV-1	SP-1-T	4	S		EXISTING TO REMAIN

EXACT POLE LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD
 TYPE 1-A SHALL BE SPUN ALUMINUM
 NEW VEHICLE SIGNAL SHALL HAVE 12" LED PER CONTRACT SPECIAL PROVISIONS.

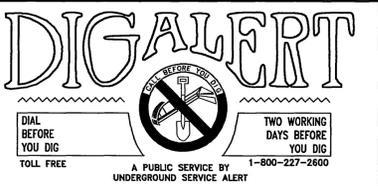
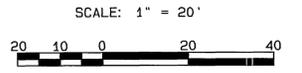


CONSTRUCTION NOTES

- CONSTRUCTION NOTES:
- RELOCATE EXIST POLE TO LOCATION A. EXIST FOUNDATION TO BE REMOVED.
 - REMOVE EXIST SIGNAL HEAD. MODIFY EXISTING SV-2-T TO SV-1-T.
 - INSTALL 12" SOLID WHITE (THERMOPLASTIC)
 - EXIST CONDUIT, REPLACE EXIST INTERCONNECT CABLE.
 - REMOVE EXISTING STRIPING OR PAVEMENT MARKING BY WET SAND BLASTING

GENERAL NOTES:

- TRAFFIC SIGNAL WORK SHALL CONFORM TO THE PROVISIONS OF SECTION 86 OF THE MOST CURRENT STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY CALTRANS APPLICABLE CITY OF RIVERSIDE STANDARD DRAWINGS, AND THE CONTRACT SPECIAL PROVISIONS.
- ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY CONTRACTOR.
- ALL STRIPING, PAVEMENT MARKING AND SIGN REQUIREMENTS (REMOVALS 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', 15' SPACINGS IN THE DIRECTION OF TRAVEL. NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING DETECTORS. ALL CONDUIT SIZE SHALL BE 2" MINIMUM UNLESS OTHERWISE NOTED.
- SPLICING OF THE CONDUCTORS IS NOT ALLOWED.
- INSPECTION FEE WILL BE AT THE RATE OF \$55.00 PER HOUR.
- FOR ROADWAY CONSTRUCTION DETAILS SEE STREET IMPROVEMENT PLAN R-3642
- CALL (909) 351-6096 AT LEAST 48 HOURS IN ADVANCE FOR INSPECTION.
- ALL NEW CONDUIT SHALL BE 2" UNLESS SHOWN OTHERWISE.
- ALL PULL BOXES SHALL BE #5 UNLESS SHOWN OTHERWISE.
- MAKE REFERENCE TO STRIPING PLAN XL-461.



CITY BUSINESS TAX CERTIFICATE NO. 005751 EXP. 12-31-02

ALBERT A. WEBB ASSOCIATES
 CIVIL ENGINEERS
 3788 McCRA Y STREET RIVERSIDE, CA 92506
 (909) 686-1070

APPROVED BY: *mol* DATE: 5/22/02
 R.C.E. NO. C39530

W.O. 01-0049 FOR: REGIONAL PROPERTIES F.B. 1999 DESIGNED BY: D.S. CHECKED BY: aig PLN CHK REF

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT

APPROVED BY: *Tom Boyd* DATE: 6/2/02
 PRINCIPAL ENGINEER
 TRAFFIC DIVISION
 STREET SERVICES

SIGNAL MODIFICATION PLANS

MAIN STREET AND FIRST STREET

SCALE: 1" = 20'

ACCOUNT NO. 01-0049
 DRAWING NUMBER
X-149B
 SHEET 1 OF 1
 010049

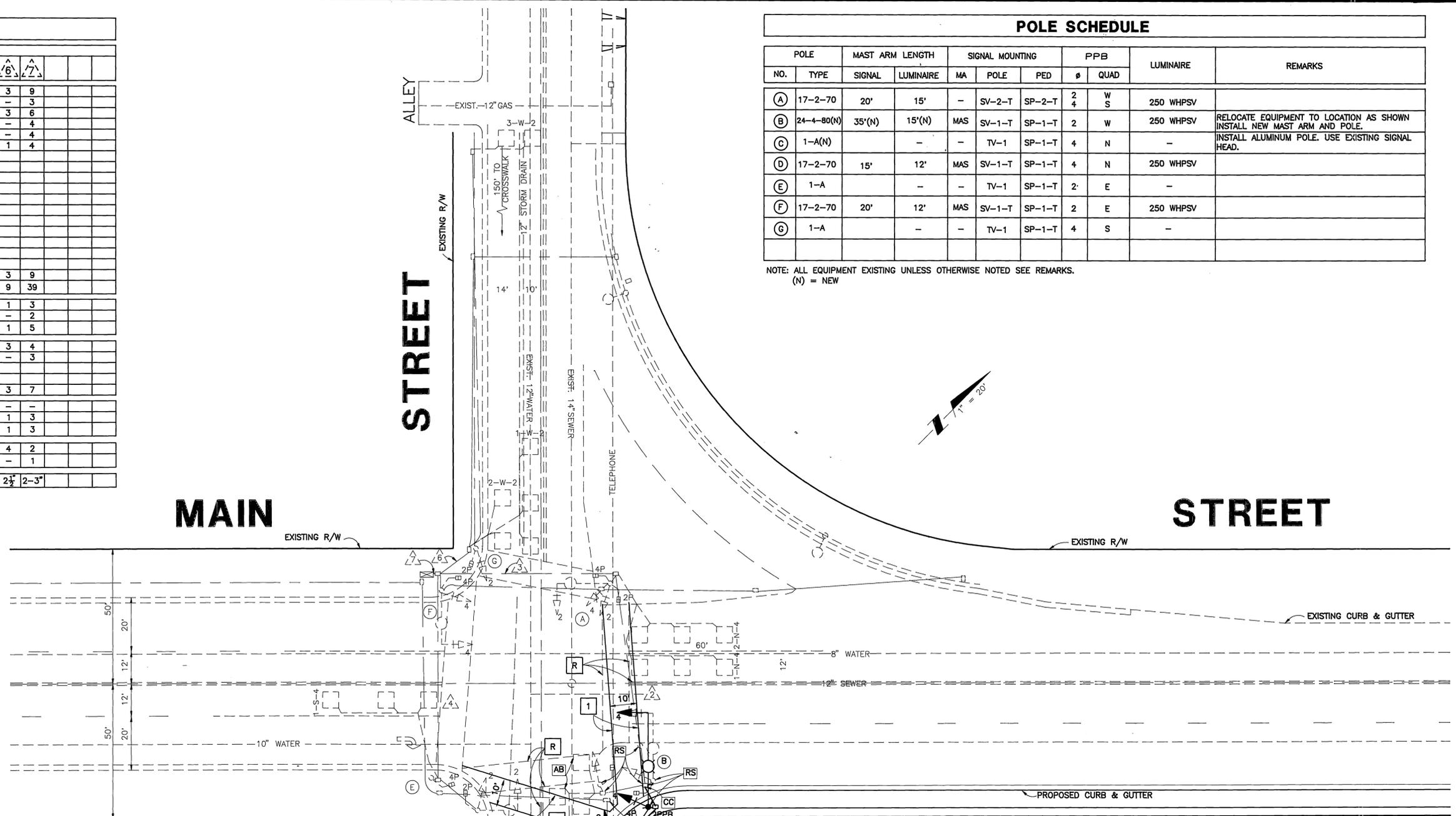
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CONDUCTOR SCHEDULE										
AWG	CONDUCTOR	CONDUIT RUN								
		*1	*2	*3	*4	*5	*6	*7		
#14	#2	3	3	3	3	3	3	9		
	#4	-	3	3	3	-	-	3		
	#2PED	2	2	2	2	2	3	6		
	#4PED	-	2	2	2	-	-	4		
	#2PPB	-	1	2	1	-	-	4		
	#4PPB	1	1	2	1	1	1	4		
SPARE		3	3	3	3	3	3	9		
TOTAL #14		9	15	17	15	9	9	39		
#12	PPB COMMON	1	1	1	1	1	1	3		
	SPARE	-	1	1	1	1	-	2		
	TOTAL #12	1	2	2	2	2	1	5		
2-#12 CABLE	#2 DETECTORS	1	1	1	-	-	3	4		
	#4 DETECTORS	-	-	2	1	-	-	3		
	TOTAL CABLES	1	1	3	1	-	3	7		
#8	LUMINAIRE	-	2	2	2	2	-	-		
#10	SIGNAL COMMON	1	1	1	1	1	1	3		
TOTAL		1	3	3	3	3	1	3		
#8	SERVICE	-	-	-	-	-	4	2		
#19	INTERCONNECT	-	-	-	-	-	-	1		
CONDUIT SIZE		2(N)	2"	2 1/2"	2"	1 1/2"	2 1/2"	2-3"		

* = INSTALL NEW CONDUCTORS.
(N) = INSTALL NEW

POLE SCHEDULE										
NO.	POLE TYPE	MAST ARM LENGTH		SIGNAL MOUNTING			PPB		LUMINAIRE	REMARKS
		SIGNAL	LUMINAIRE	MA	POLE	PED	Ø	QUAD		
(A)	17-2-70	20'	15'	-	SV-2-T	SP-2-T	2	4	W S	250 WHPSV
(B)	24-4-80(N)	35'(N)	15'(N)	MAS	SV-1-T	SP-1-T	2	W	250 WHPSV	RELOCATE EQUIPMENT TO LOCATION AS SHOWN. INSTALL NEW MAST ARM AND POLE.
(C)	1-A(N)	-	-	-	TV-1	SP-1-T	4	N	-	INSTALL ALUMINUM POLE. USE EXISTING SIGNAL HEAD.
(D)	17-2-70	15'	12'	MAS	SV-1-T	SP-1-T	4	N	250 WHPSV	
(E)	1-A	-	-	-	TV-1	SP-1-T	2	E	-	
(F)	17-2-70	20'	12'	MAS	SV-1-T	SP-1-T	2	E	250 WHPSV	
(G)	1-A	-	-	-	TV-1	SP-1-T	4	S	-	

NOTE: ALL EQUIPMENT EXISTING UNLESS OTHERWISE NOTED SEE REMARKS.
(N) = NEW



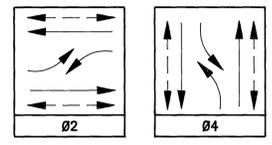
GENERAL NOTES:

- TRAFFIC SIGNAL 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 TRAFFIC ENGINEER.
- ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY CONTRACTOR.
- 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 FACILITIES DAMAGED BY HIS OPERATIONS.
- ALL LOOPS SHALL BE 6"x6" UNLESS OTHERWISE NOTED.
- SPLICING OF THE CONDUCTORS IS NOT ALLOWED.
- CONSTRUCTION WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOPS SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AT (714)782-5748 AND THE NECESSARY TIMING ADJUSTMENTS MADE TO MAINTAIN SIGNAL OPERATION.
- THIS WORK REQUIRES A "STREET OPENING" PERMIT OBTAINED AT THE PUBLIC WORKS COUNTER.
- INSPECTION FEE WILL BE AT THE RATE OF \$29.35 PER HOUR.
- 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 THE PLANS FOR APPROVAL BY THE CITY.
- ALL SALVAGED MATERIALS SHALL BE DELIVERED TO CITY YARD AS DIRECTED BY THE ENGINEER IN THE FIELD.
- REFERENCE IS MADE TO STREET PLAN No. R-3134 FOR THE SALVATION ARMY PROJECT.

CONSTRUCTION NOTES:

- 1 PAINT 12" WHITE X-WALK
- R REMOVE CONFLICTING EXISTING STRIPING BY WET SANDBLASTING
- AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- CC CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- RS REMOVE AND SALVAGE EQUIPMENT
- BC INSTALL PULLBOX IN EXIST. CONDUIT RUN.
- 12 REMOVE PULLBOX; REMOVE EXIST. CABLE FROM M.H.(1st. & ORANGE) TO PULLBOX ON SOUTHEAST CORNER AT 1st & MAIN. CONNECT CONDUIT USING COUPLINGS AND CONDUIT AS REQUIRED. REINSTALL CABLE AND RECONNECT.

PHASE DIAGRAM



FLASHING OPERATION: ALL RED

Underground Service Alert
Call: TOLL FREE
1 - 800 422 - 4133
TWO WORKING DAYS BEFORE YOU DIG

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.

REGISTERED PROFESSIONAL ENGINEER
JIMMY W. STUBBS
No. 36495
Exp. 12/31/04
CIVIL
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
James B. Dobbins
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 5-15-90
RECOMMENDED BY:
James B. Dobbins DATE: 5/14/90

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300 11200 S. Mt. Vernon Ave., Suite "D" 73-080 El Paseo, Suite 106
P.O. Box 483 Riverside, CA 92502 Colton, CA 92324 Palm Desert, CA 92260
(714) 686-0844 (714) 825-1082 (619) 346-5891
FAX 714-686-9954 FAX 619-340-0529

SCALE: 1"=20' BENCH MARK:
DATE: MAY 11, 1989

DESIGNED BY OMA/CMM DRAWN BY CMM CHECKED BY OMA
REVISIONS: (1) REVISE FOR INTERCONNECT.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: **Benny Bell** DATE: 5/14/90
DIRECTOR OF PUBLIC WORKS
DATE: 5/14/90

TRAFFIC SIGNAL PLAN
MAIN STREET AT FIRST STREET
HORIZ. SCALE: 1"=20' VERT. SCALE: 1"

PROJECT NO. 8709939
X-149A
SHEET 1 OF 1
FILE NO:

