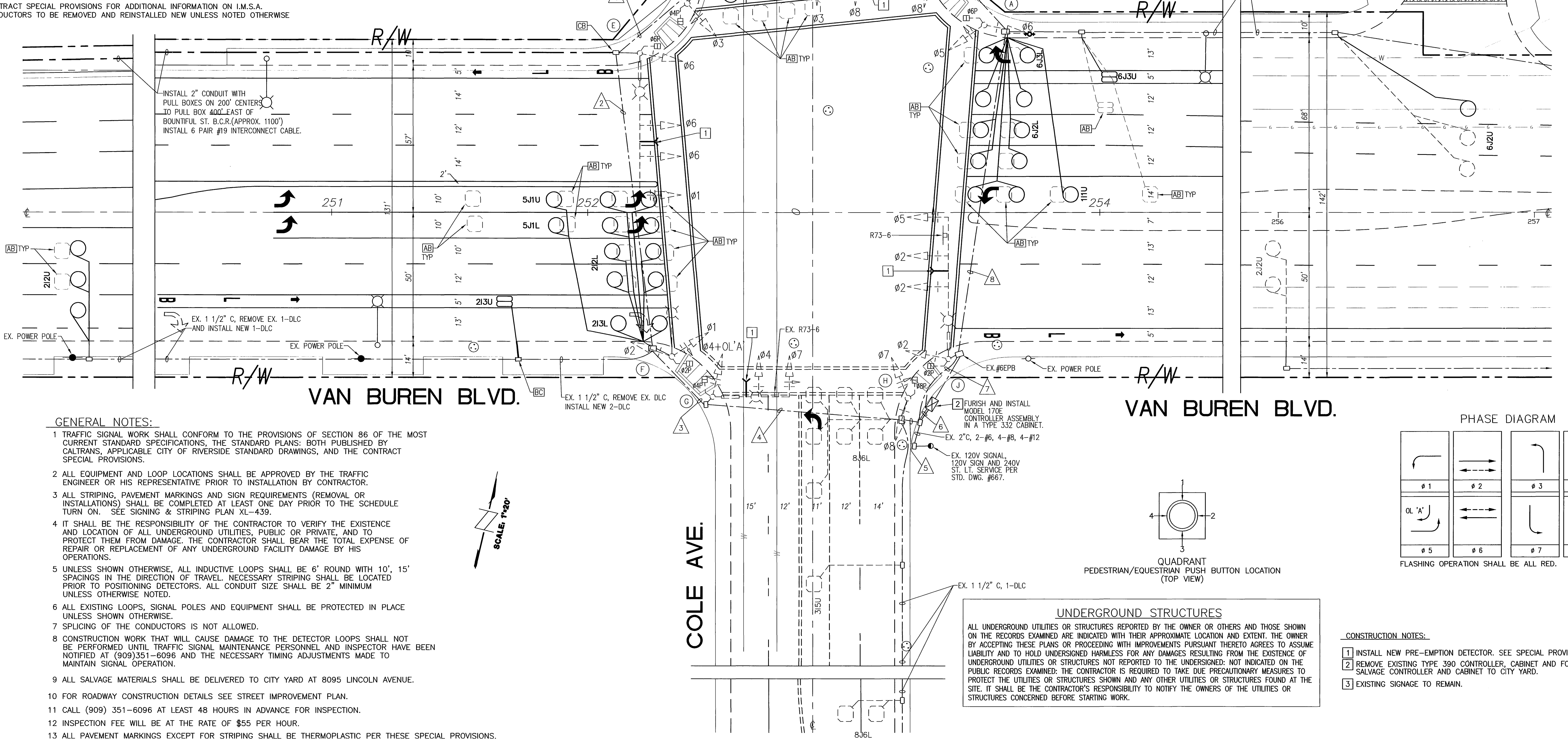


CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS									
		1	2	3	4	5	6	7	8	9	10
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA	1	2	3	4	5	8	3	2	1	-
	9 WIRE IMSA	-	-	-	-	-	-	-	-	-	-
	5 WIRE IMSA	-	-	-	-	-	-	-	-	-	-
	3 WIRE IMSA	1	2	3	4	5	8	3	2	1	-
DETECTOR CABLE	#16/2	-	-	-	-	1	1	1	-	-	-
PHASE 1		-	-	-	-	-	-	-	-	-	-
PHASE 2		-	-	4	4	4	4	-	-	-	-
PHASE 3		-	-	-	-	1	1	-	-	-	-
PHASE 4		2	2	2	2	2	3	1	1	1	1
PHASE 5		-	-	2	2	2	2	-	-	-	-
PHASE 6		-	-	-	-	-	4	4	4	-	-
PHASE 7		-	-	-	-	-	2	2	2	2	2
PHASE 8		-	-	-	-	2	2	2	-	-	-
PRIORITY PRE-EMPT	#20	1	1	2	2	4	2	1	1	-	-
I.I.S.N.S.	#12	2	2	2	2	2	-	2	2	2	-
LUMINAIRES	#8	2	2	2	2	2	-	2	2	2	-
SIGNAL SERVICE	#6	-	-	-	-	-	-	-	-	-	-
INTERCONNECT	6 PAIR #19	-	1	1	1	1	1	-	-	-	-
CONDUIT SIZE		2"	2.5"	3"	3"	3.5"	2-3.5"	3.5"	3.5"	2"	2"
N = NEW		E	E	E	E	E	E	E	E	E	E

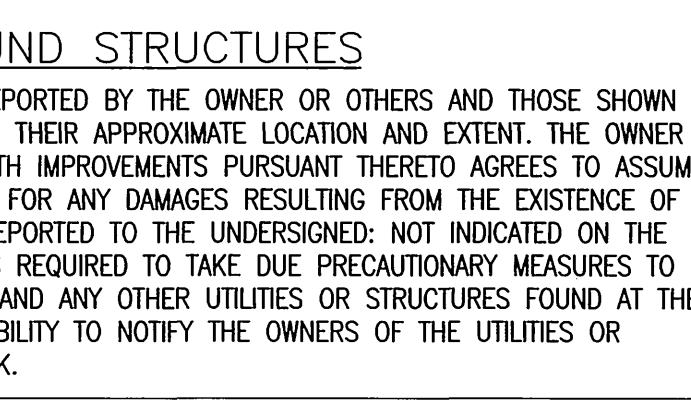
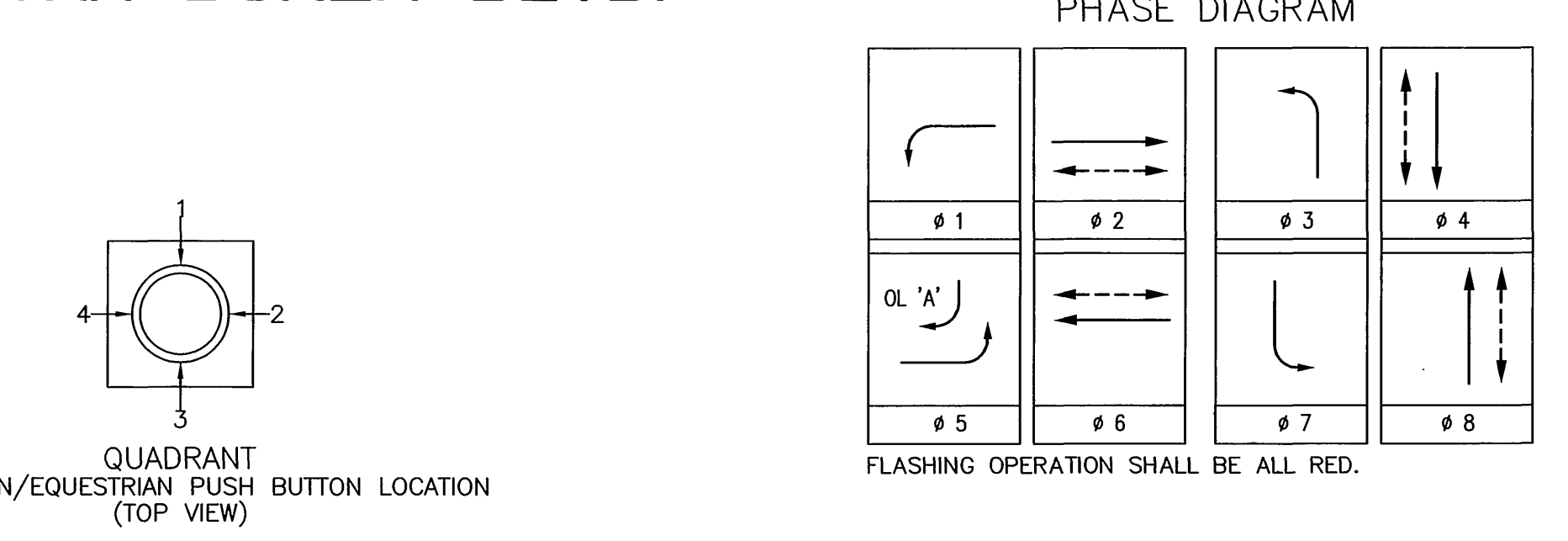
SEE CONTRACT SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON I.M.S.A.  
ALL CONDUCTORS TO BE REMOVED AND REINSTALLED NEW UNLESS NOTED OTHERWISE

POLE NO.	TYPE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING		PPB/EPB	H.P.S.V.	I.I.S.N.S.	REMARKS
			SIGNAL	LUMINAIRE	MA	POLE				
A	15(E)	10'	-	-	SV-2-T(E)	SP-1-T(E)	8	4		EXISTING TO REMAIN.
B	PBP(E)	3.8'	-	-	-	-	6	3		EXISTING TO REMAIN.
C	26-4-80(E)	30'	45'(E)	15'(E)	2-MAS(E)	SV-1-T(E)	SP-1-T(E)	-	400 W(E)	Van Buren 19400 (E)
D	1-A(E)	10'	-	-	TV-2-T(E)	SP-1-T(E)	6	3		EXISTING TO REMAIN.
E	29-5-80(E)	30'	55'(E)	15'(E)	3-MAS(E)	SV-1-T(E)	SP-1-T(E)	4	2	400 W(E)
F	15(E)	10'	-	-	SV-2-T(E)	SP-1-T(E)	4	2		EXISTING TO REMAIN.
G	19-4-80(E)	30'	30'(E)	15'(E)	2-MAS(E)	SV-1-T(E)	SP-1-T(E)	2	1	400 W(E)
H	1-A(E)	10'	-	-	TV-2-T(E)	SP-1-T(E)	2	1		EXISTING TO REMAIN.
J	29-5-80(E)	30'	55'(E)	15'(E)	3-MAS(E)	SV-1-T(E)	SP-1-T(E)	8	4	400 W(E)

NEW VEHICLE SIGNAL SHALL HAVE 12" LENS (GLASS) AND 12" RED LED.  
CONSTRUCTION NOTES:  
(N) - FURNISH AND INSTALL  
(E) - EXISTING TO REMAIN



- 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 MARKINGS AND SIGN REQUIREMENTS (REMOVAL OR INSTALLATIONS) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULE TURN ON. SEE SIGNING & STRIPING PLAN XL-439.
  - 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.
  - ALL EXISTING LOOPS, SIGNAL POLES AND EQUIPMENT SHALL BE PROTECTED IN PLACE UNLESS SHOWN OTHERWISE.
  - 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 AND INSPECTOR HAVE BEEN NOTIFIED AT (909) 351-6096 AND THE NECESSARY TIMING ADJUSTMENTS MADE TO MAINTAIN SIGNAL OPERATION.
  - ALL SALVAGE MATERIALS SHALL BE DELIVERED TO CITY YARD AT 8095 LINCOLN AVENUE.
  - FOR ROADWAY CONSTRUCTION DETAILS SEE STREET IMPROVEMENT PLAN.
  - CALL (909) 351-6096 AT LEAST 48 HOURS IN ADVANCE FOR INSPECTION.
  - INSPECTION FEE WILL BE AT THE RATE OF \$55 PER HOUR.
  - ALL PAVEMENT MARKINGS EXCEPT FOR STRIPING SHALL BE THERMOPLASTIC PER THESE SPECIAL PROVISIONS.



- CONSTRUCTION NOTES:**
- INSTALL NEW PRE-EMPTION DETECTOR. SEE SPECIAL PROVISIONS.
  - REMOVE EXISTING TYPE 390 CONTROLLER, CABINET AND FOUNDATION. SALVAGE CONTROLLER AND CABINET TO CITY YARD.
  - EXISTING SIGNAGE TO REMAIN.

1029-99-01-SHTS.DWG-BW-4/10/00

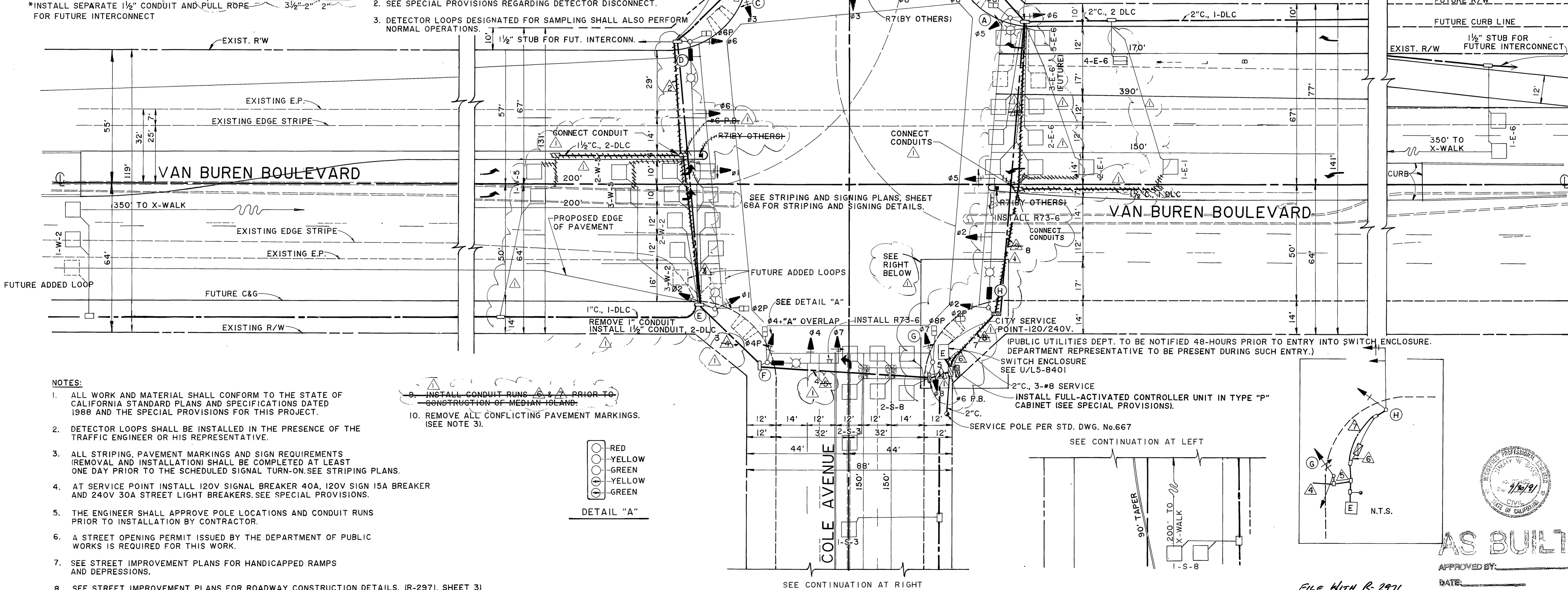
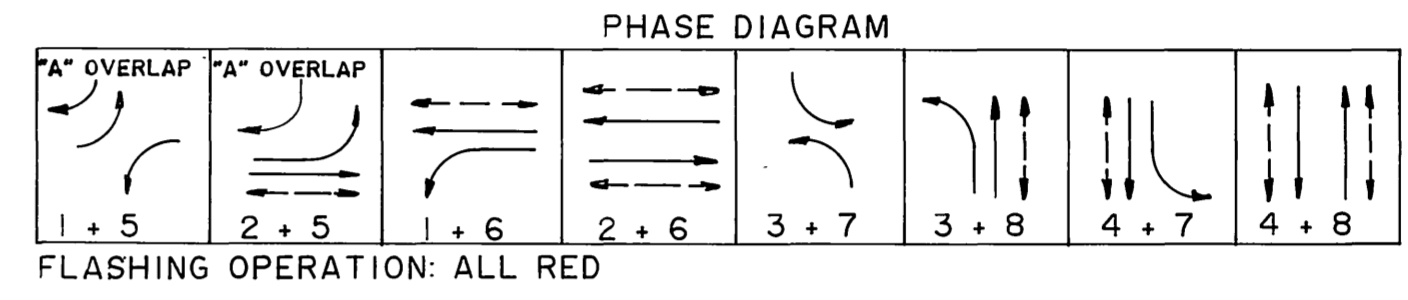
<p>DIAL BEFORE YOU DIG</p>	<p>PRIVATE ENGINEERING NOTE</p> <p>CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE 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 UNDERSIGNED HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.</p>	<p>PREPARED UNDER THE DIRECTION OF:</p> <p><i>Robert K. K...</i></p> <p>REGISTERED CIVIL ENGINEER NO. 20285</p> <p>EXPIRATION DATE: 09-30-01 DATE: 4/11/00</p>	<p><b>RKJK</b></p> <p>REGISTERED CIVIL ENGINEER NO. 20285</p> <p>TRAFFIC ENGINEERING • DESIGN SERVICES</p> <p>1601 Dove St., Suite 290 • Newport Beach, CA 92660</p> <p>Phone: (949) 474-0809 Fax: (949) 474-0902</p>	<p>CITY OF RIVERSIDE, CALIFORNIA</p> <p>DEPARTMENT OF PUBLIC WORKS</p>	<p>TRACT No. 28866</p> <p>SIGNAL MODIFICATION PLAN</p> <p>TRAUTWEIN ROAD AND VAN BUREN BOULEVARD</p>	<p>PROJECT NO. X-333A</p> <p>SHEET 1 OF 1</p> <p>FILE NO.</p>
	<p>APPROVED BY: <i>[Signature]</i> DATE: 5-3-2000</p> <p>PRINCIPAL ENGR.</p> <p>PARK DEPARTMENT</p> <p>TRAFFIC DIVISION</p> <p>P.W. ENGINEER MGR.</p> <p>STREET SERVICES</p>	<p>APPROVED BY: <i>[Signature]</i> DATE: 5-3-2000</p> <p>DIRECTOR OF PUBLIC WORKS</p>	<p>DESIGNED BY: B.W. DRAWN BY: B.W. CHECKED BY: R.K.</p>	<p>SCALE: 1" = 20'</p> <p>DATE: 2/2/00</p>	<p>FOR: COMMUNITIES SOUTHWEST</p>	<p>FOR: COMMUNITIES SOUTHWEST</p>

CONDUCTOR SCHEDULE											
AWG	CONDUCTOR RUN	1	2	3	4	5	6	7	8	9	10
Ø1		3	3	3	3	3	3	3			
Ø2											
Ø3		3	3	3	3	3	3	3	3	3	3
Ø4		3	3	3	3	3	3	3	3	3	3
Overlap "A"		2	2	2	2	2	2	2	2	2	2
Ø5											
Ø6		3	3	3	3	3	3	3	3	3	3
Ø7											
Ø8											
Ø2P											
Ø4P		2	2	2	2	2	2	2	2	2	2
Ø6P		2	2	2	2	2	2	2	2	2	2
Ø8P											
Ø2PPB											
Ø4PPB		1	1	1	1	1	1	1	1	1	1
Ø6PPB		1	1	1	1	1	1	1	1	1	1
Ø8PPB											
PPB COMMON		1	1	1	1	1	1	1	1	1	1
SPARES		3	3	3	3	3	3	3	3	3	3
TOTAL		15	24	24	30	34	36	36	36	36	36
I.S.N.S.		2	2	2	2	2	2	2	2	2	2
SIGNAL COMMON		1	1	1	1	1	1	1	1	1	1
LUMINAIRE SERVICE		2	2	2	2	2	2	2	2	2	2
TOTAL		2	2	2	2	2	2	2	2	2	2
Ø1											
Ø2											
Ø3											
Ø4		2	2	2	2	2	2	2	2	2	2
Ø5											
Ø6											
Ø7											
Ø8											
TOTAL DLC		2	2	5	8	8	12	23	11	11	4
INTERCONNECT CABLE CONDUIT SIZE		2"	2 1/2"	3"	3"	3"	3 1/2"	2 3/4"	3 1/2"	3"	3"

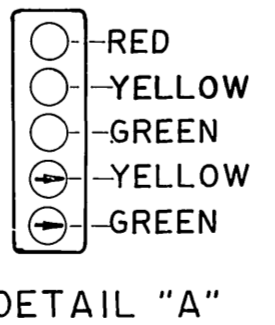
DETECTOR SCHEDULE			
CHANNELS	LOOP DESIGNATION	# OF LOOPS	FEATURES
1	1-W-5	2	•
2	2-W-5	3	
1	3-W-5	3	
2	1-W-2	2+(FUT.)	••
1	2-W-2	4	
2	3-W-2(FUT.)	2(FUT.)	
1	1-N-4	4	••
2	2-N-4	4	
1	3-N-4	1 (BIKE)	•
1	1-N-7	2	
1	2-N-7	3	
2	3-N-7	3	
1	1-E-6	2	••
2	2-E-6	4	
1	3-E-6	2(FUT.)	
2	4-E-6	1 (BIKE)	•
1	5-E-6	2	
2	1-E-1	1	•
1	2-E-1	3	
1	1-S-3	1	•
1	2-S-3	3	
2	1-S-8	2	••
1	2-S-8	4	

POLE SCHEDULE											
POLE NO.	TYPE	MAST ARM LENGTH		SIGNAL MOUNTING			PPB		LUMINAIRE	I.S.N.S. LEGEND	REMARKS
		SIGNAL	LUMINAIRE	MA	POLE	PED	Ø	QUAD			
(A)	15		15'		SV-2-T	SP-1-T	8	4	250 W.H.P.S.		
(B)	26-4-80	45'	15'	MAS MAS	SV-1-T	SP-1-T	6	3	250 W.H.P.S.	Van Buren Blvd 19400	
(C)	1 - A				TV-2-T	SP-1-T	6	3			
(D)	29-4-80	55'	15'	MAS MAS	SV-1-T	SP-1-T	4	2	250 W.H.P.S.	Trautwein Rd. 8900	
(E)	15		15'		SV-2-T	SP-1-T	4	2	250 W.H.P.S.		
(F)	19-4-80	30'	15'	MAS MAS	SV-1-T	SP-1-T	2	1	250 W.H.P.S.	Van Buren Blvd 19300	
(G)	1 - A				TV-2-T	SP-1-T	2	1			
(H)	29-4-80	55'	15'	MAS MAS	SV-1-T	SP-1-T	8	4	250 W.H.P.S.	Cole Ave. 9000	

NOTES: 1. TYPE I-A STANDARDS SHALL BE ALUMINUM.  
2. LEFT TURN HEADS SHALL BE ALL ARROW INDICATIONS.



- NOTES:
- ALL WORK AND MATERIAL SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD PLANS AND SPECIFICATIONS DATED 1988 AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
  - DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
  - ALL STRIPING, PAVEMENT MARKINGS AND SIGN REQUIREMENTS (REMOVAL AND INSTALLATION) SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO THE SCHEDULED SIGNAL TURN-ON. SEE STRIPING PLANS.
  - AT SERVICE POINT INSTALL 120V SIGNAL BREAKER 40A, 120V SIGN 15A BREAKER AND 240V 30A STREET LIGHT BREAKERS. SEE SPECIAL PROVISIONS.
  - THE ENGINEER SHALL APPROVE POLE LOCATIONS AND CONDUIT RUNS PRIOR TO INSTALLATION BY CONTRACTOR.
  - A STREET OPENING PERMIT ISSUED BY THE DEPARTMENT OF PUBLIC WORKS IS REQUIRED FOR THIS WORK.
  - SEE STREET IMPROVEMENT PLANS FOR HANDICAPPED RAMPS AND DEPRESSIONS.
  - SEE STREET IMPROVEMENT PLANS FOR ROADWAY CONSTRUCTION DETAILS. (R-2971, SHEET 3)



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

PRIVATE ENGINEERING NOTE  
(NOT REQUIRED BY GOVERNING AGENCY)  
CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THE SAFETY AND COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HOLDING DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

PREPARED UNDER THE DIRECTION OF  
*William L. Davidson*  
REGISTERED CIVIL ENGINEER NO. 35458  
EXPIRATION DATE 9/30/91 DATE 1/11/92  
APPROVED BY

J F DAVIDSON ASSOCIATES, INC.  
CIVIL ENGINEERS • SURVEYORS • PLANNERS  
PO BOX 493 RIVERSIDE, CA 92532 (714) 886-0844  
11200 SO MT VERNON AVE #D COLTON, CA 92324 (714) 825-1082  
71-080 EL PASO, #103 PALM DESERT, CA 92260 (619) 346-5691

SCALE  
1" = 20'-0"  
DATE

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY: *Randy Beck*  
DATE: 3/23/89

CFD 86-1  
TRAFFIC SIGNAL PLANS  
VAN BUREN BOULEVARD  
AT  
TRAUTWEIN ROAD  
HORIZ. SCALE: 1" =  
VERT. SCALE: 1" =

PROJECT NO.  
X-333  
SHEET 69 OF 106  
FILE NO. 87-10058



AS BUILT

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

File With R-2971