

EQUIPMENT SCHEDULE

NO.	SIGNAL STANDARD	TYPE	H'CHT	M.A.	L.A.	H.P.S.V.	I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS		PPB PHASE	REMARKS
								VEHICLE	PEDESTRIAN		
(A)	29A-5-80(E)	35'	55'(E)	12'(E)	250W(E)	LINCOLN(E)	AV 9400	MAS(E)			
								MAS(E)			
								SV-1-T(E)	SP-1-T(E)	4(E)	
(B)	1A(E)	10'						TV-2-T(N)	SP-1-T(E)	6(E)	Remove and salvage exist. TV-1-T
(C)	26A-4-80(N)	35'	40'(N)	12'(N)	250W(N)	VAN BUREN(N)	AV 2800	MAS(N)			
								MAS(N)			
								SV-1-T(N)	SP-1-T(N)	6(N)	Remove and salvage exist. pole, and equipment.
(D)	1A(E)	10'						TV-1-T(E)	SP-1-T(E)	8(E)	
(E)	26A-4-80(E)	35'	40'(E)	12'(E)	250W(E)	LINCOLN(E)	AV 9500	MAS(E)			
								MAS(E)			
								SV-1-T(E)	SP-1-T(E)	8(E)	
(F)	1A(E)	10'						TV-2-T(N)	SP-1-T(E)	2(E)	Remove and salvage exist. TV-1-T
(G)	24A-4-80(N)	35'	25'(N)	12'(N)	250W(N)	VAN BUREN(N)	AV 2900	MAS(N)			
								MAS(N)			
								SV-1-T(N)	SP-1-T(N)	2(N)	Remove and salvage exist. pole and equipment.
(H)	1A(E)	10'						TV-1-T(E)	SP-1-T(E)	4(E)	

E = EXISTING; N = NEW, R = RELOCATE

NOTES: 1. LEFT TURN HEADS SHALL HAVE ALL ARROWS.  
2. SIGNAL HEADS SHALL HAVE 12" LENSES.

CONDUCTOR TABLE

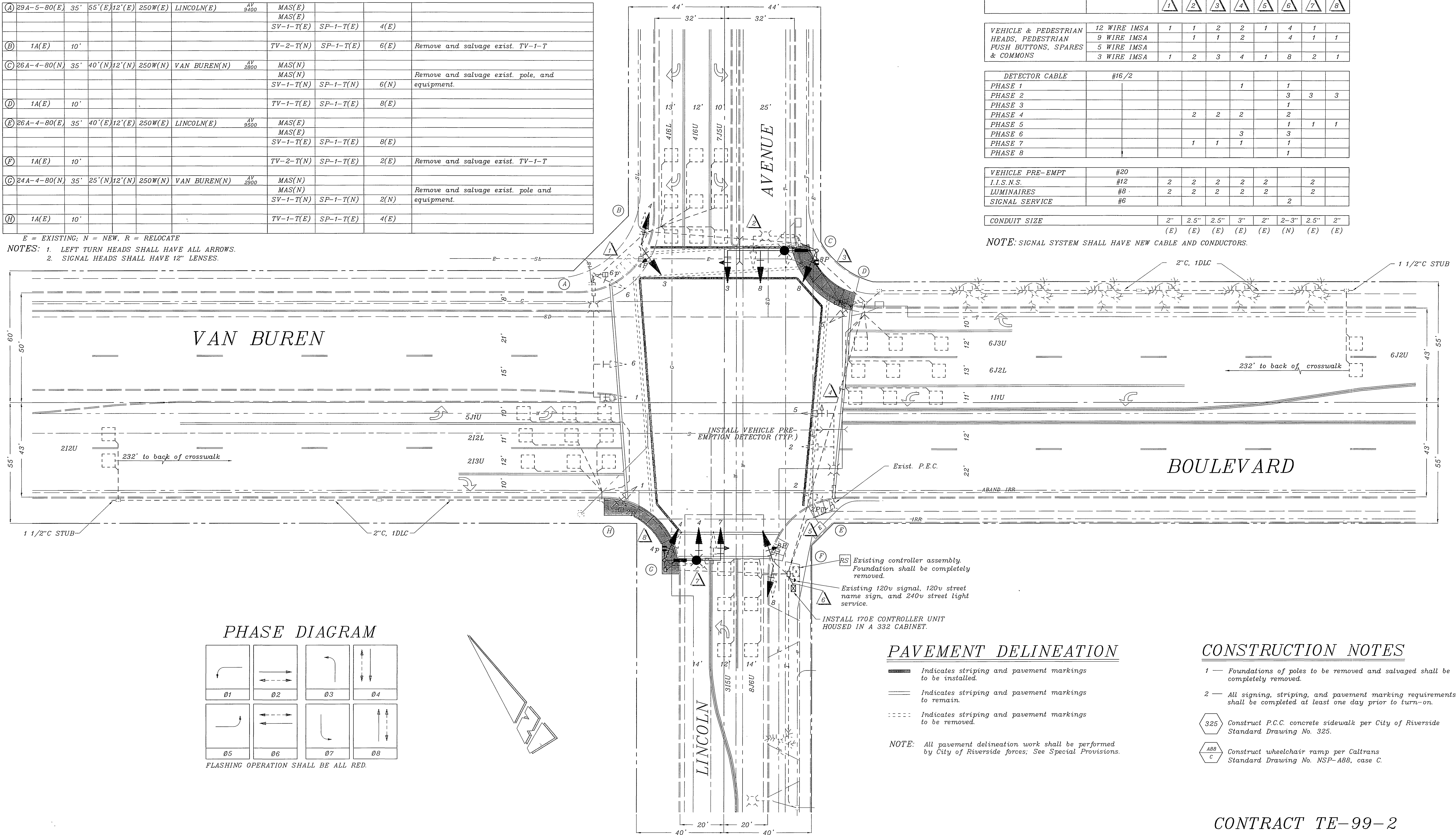
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	1	2	2	1	4	1	
			1	1	2		4	1	1
		1	2	3	4	1	8	2	1

DETECTOR CABLE	#16/2								
PHASE 1					1			1	
PHASE 2								3	3
PHASE 3								1	
PHASE 4			2	2	2			2	
PHASE 5								1	1
PHASE 6					3			3	
PHASE 7			1	1	1			1	
PHASE 8								1	

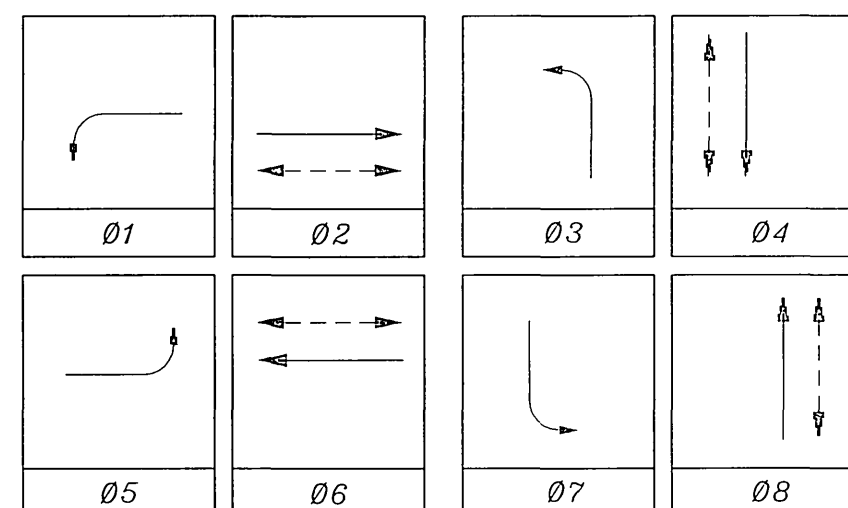
VEHICLE PRE-EMPT	#20								
I.I.S.N.S.	#12	2	2	2	2	2		2	
LUMINAIRES	#8	2	2	2	2	2		2	
SIGNAL SERVICE	#6								

CONDUIT SIZE	2"	2.5"	2.5"	3"	2"	2-3"	2.5"	2"
	(E)	(E)	(E)	(E)	(E)	(N)	(E)	(E)

NOTE: SIGNAL SYSTEM SHALL HAVE NEW CABLE AND CONDUCTORS.



PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.

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.

NOTE: All pavement delineation work shall be performed by City of Riverside forces; See Special Provisions.

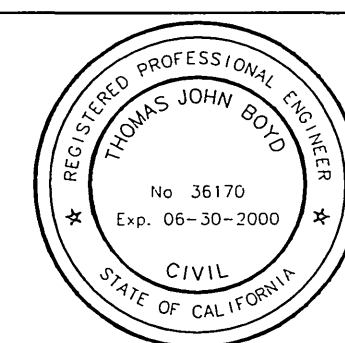
CONSTRUCTION NOTES

- Foundations of poles to be removed and salvaged shall be completely removed.
  - All signing, striping, and pavement marking requirements shall be completed at least one day prior to turn-on.
- 325 Construct P.C.C. concrete sidewalk per City of Riverside Standard Drawing No. 325.
  - ABB Construct wheelchair ramp per Caltrans Standard Drawing No. NSP-ABB, case C.

CONTRACT TE-99-2

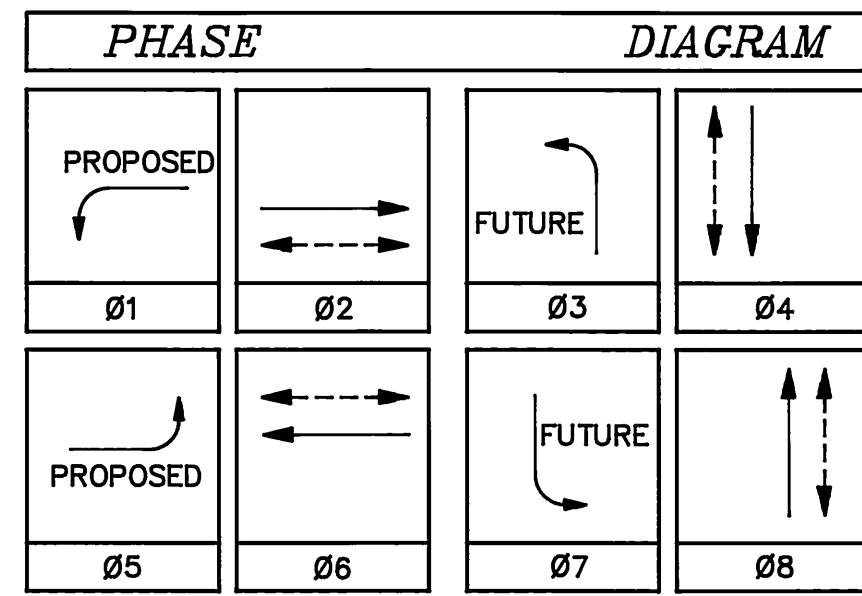


ENGINEER IN RESPONSIBLE CHARGE  
*Thomas John Boyd*  
 THOMAS JOHN BOYD  
 R.C.E. No. 36170 expires 6/30/00  
 DATE 2/11/00

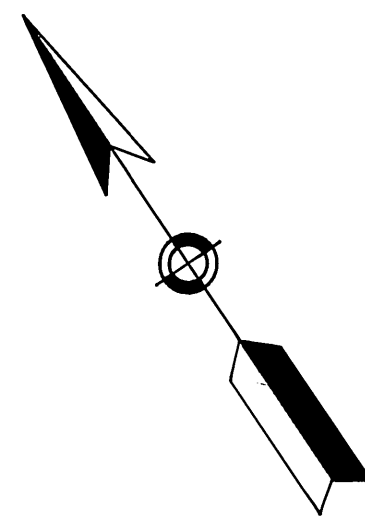


CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS			
APPROVED BY	BY	DATE	APPROVED BY
ENGINEERING MANAGER	<i>R. Mc...</i>	2/11/00	DIRECTOR OF PUBLIC WORKS
PRINCIPAL ENGINEER	<i>R. Mc...</i>		
P.W. INSPECTOR	<i>R. Mc...</i>		
TRAFFIC DIVISION	<i>R. Mc...</i>		
PUBLIC UTILITIES	<i>R. Mc...</i>		
DESIGNED BY	MAC	DRAWN BY	MAC
CHECKED BY			

TRAFFIC SIGNAL MODIFICATION		ACCT. NO.
VAN BUREN BLVD. @ LINCOLN AVENUE		0432-541600-440302-35066
X-451A		
SHEET 1 OF 1		
FILE NAME: X451A.DWG		
SCALE: 1" = 20'		



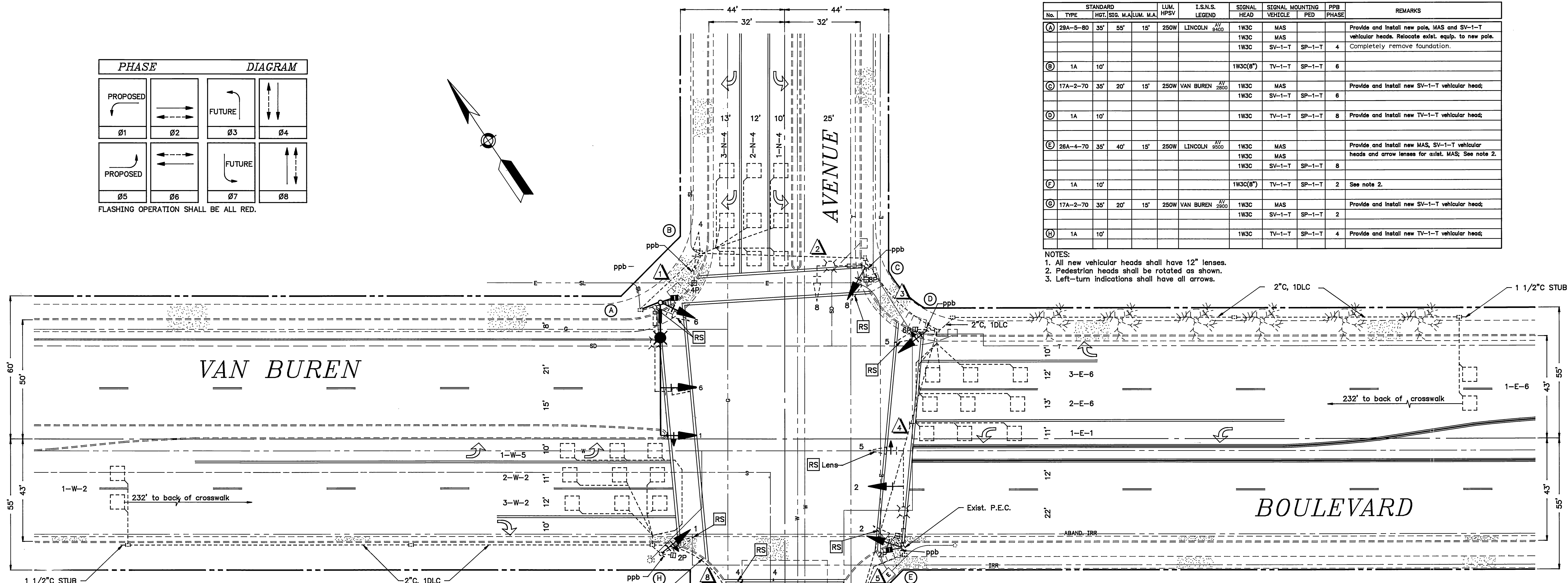
FLASHING OPERATION SHALL BE ALL RED.



STANDARD		SCHEDULE		POLE		SCHEDULE		REMARKS			
No.	TYPE	HGT.	ISIG. M.A.	LUM. M.A.	LUM. HPSV	I.S.N.S. LEGEND	SIGNAL HEAD	SIGNAL MOUNTING VEHICLE	PPB PHASE		
(A)	29A-5-80	35'	55'	15'	250W	LINCOLN AV 6603	1W3C	MAS		Provide and install new pole, MAS and SV-1-T vehicular heads. Relocate exist. equip. to new pole. Completely remove foundation.	
(B)	1A	10'					1W3C(8")	TV-1-T	SP-1-T	6	
(C)	17A-2-70	35'	20'	15'	250W	VAN BUREN AV 2800	1W3C	MAS		Provide and install new SV-1-T vehicular head;	
(D)	1A	10'					1W3C	TV-1-T	SP-1-T	8	Provide and install new TV-1-T vehicular head;
(E)	26A-4-70	35'	40'	15'	250W	LINCOLN AV 6603	1W3C	MAS		Provide and install new MAS, SV-1-T vehicular heads and arrow lenses for exist. MAS; See note 2.	
(F)	1A	10'					1W3C(8")	TV-1-T	SP-1-T	2	See note 2.
(G)	17A-2-70	35'	20'	15'	250W	VAN BUREN AV 2800	1W3C	MAS		Provide and install new SV-1-T vehicular head;	
(H)	1A	10'					1W3C	TV-1-T	SP-1-T	4	Provide and install new TV-1-T vehicular head;

NOTES:

- All new vehicular heads shall have 12" lenses.
- Pedestrian heads shall be rotated as shown.
- Left-turn indications shall have all arrows.



CONDUCTOR		SCHEDULE	
CONTROL FUNCTION	CONDUCTORS	SIZE	INSULATION
VEHICLE HEADS	#14 T.W.	3	3
PHASE 1		3	3
PHASE 2		3	3
PHASE 4		3	3
PHASE 5		3	3
PHASE 6		3	3
PHASE 8		3	3
PED. HEADS		2	2
PHASE 2		2	2
PHASE 4		2	2
PHASE 6		2	2
PHASE 8		2	2
PED. PUSH BUTTON		2	1
PHASE 2		1	1
PHASE 4		1	1
PHASE 6		1	1
PHASE 8		1	1
SPARES		3	3
12V COMMON		1	1

DETECTOR SCHEDULE FOR REFERENCE ONLY

CHANNELS	LOOP DESIGNATION	NUMBER OF LOOPS	FEATURES
1	1-E-1	3	
2	1-W-5	3	
1	1-W-2	2	●
2	2-W-2	3	★
1	3-W-2	3	★
2	1-E-8	2	●
1	2-E-8	3	★
2	3-E-8	3	★
1	1-N-4	3	
2	2-N-4	3	
1	3-N-4	3	▲
2	1-S-8	3	
1	2-S-8	3	
2	BLANK		

- SAMPLING (future)
- CALL-HOLD (extension)
- ▲ DELAY
- ★ DETECTOR DISCONNECT (see Special Provision)

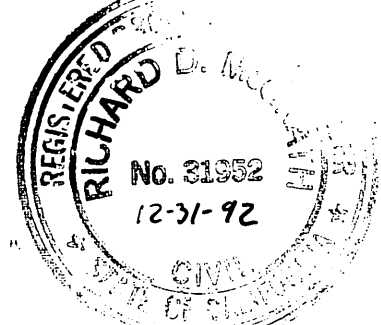
APPLICABLE NOTES (SEE ABOVE SYMBOLS):

- Detector timing features shall be accomplished thru internal logic of the controller.
- Detector loops with special features shall also detect for normal operation.
- Any cabinet modifications required shall be performed by City of Riverside forces.

I.S.N.S.	#12	T.W.	2	2	2	2	4	2
120V COMMON	#10	T.W.	1	1	1	1	1	3
LUMINAIRES	#8	T.H.W.	2	2	2	2	2	2
SIGNAL SERVICE	#8	T.H.W.						2
INTERCONNECT	#19/2	P.E.						
TOTAL	#14	T.W.	13	19	24	28	13	63
	#12	T.W.	2	2	2	2	4	2
	#10	T.W.	1	1	1	1	1	3
	#8	T.H.W.	2	2	2	2	2	2
	#8	T.H.W.						
	#16/2	P.E.	3	3	7			13
	#19/2	P.E.						4
#14 EQUIV.			21.5	36.5	41.5	57.5	23.9	114.5
CONDUIT SIZE			2"	2"	2 1/2"	3"	2"	2 1/2"

The system shall have new cables and conductors.

ENGINEER IN RESPONSIBLE CHARGE  
 Richard D. McGrath  
 RICHARD D. McGRATH  
 R.C.E. No. 31952 expires 12-31-92  
 DATE 5-17-91



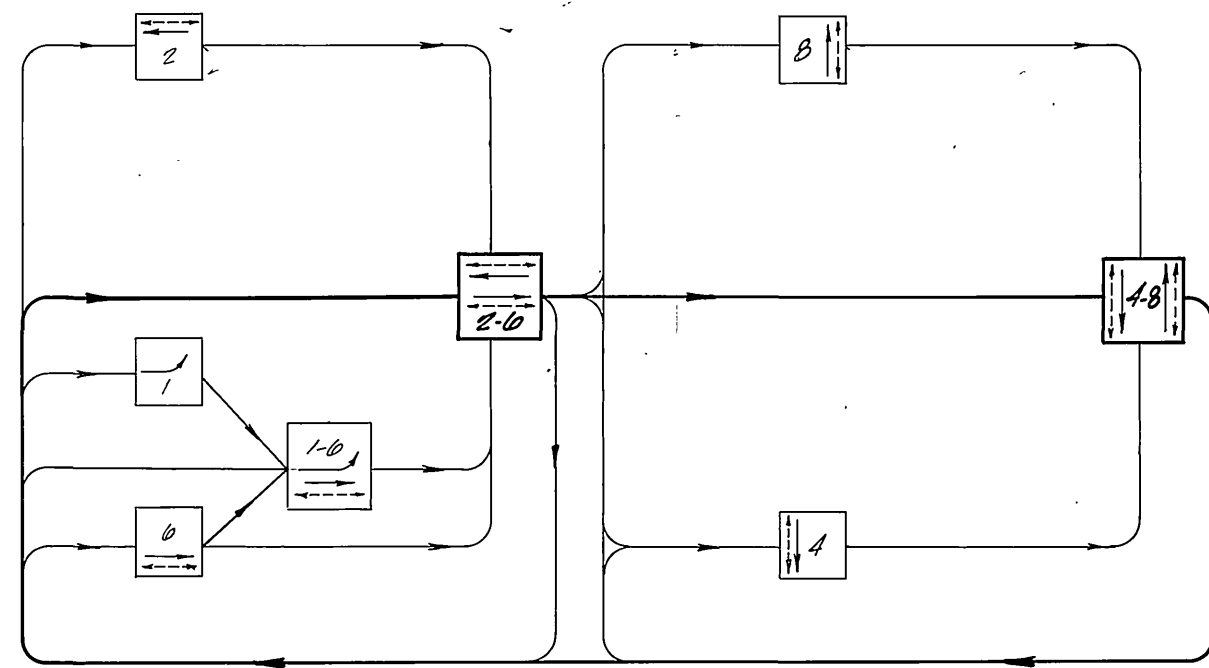
CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED BY: [Signature] DATE: 5/17/91  
 PRINCIPAL ENGINEER  
 P.W. INSPECTION: [Signature] DATE: 5/17/91  
 TRAFFIC DIVISION  
 CHIEF P.W. ENGR. [Signature] DATE: 5/17/91

TRAFFIC SIGNAL REVISION  
 VAN BUREN BLVD.  
 AND  
 LINCOLN AVE  
 HORIZ. SCALE: 1" = 20'  
 VERT. SCALE: 1" =

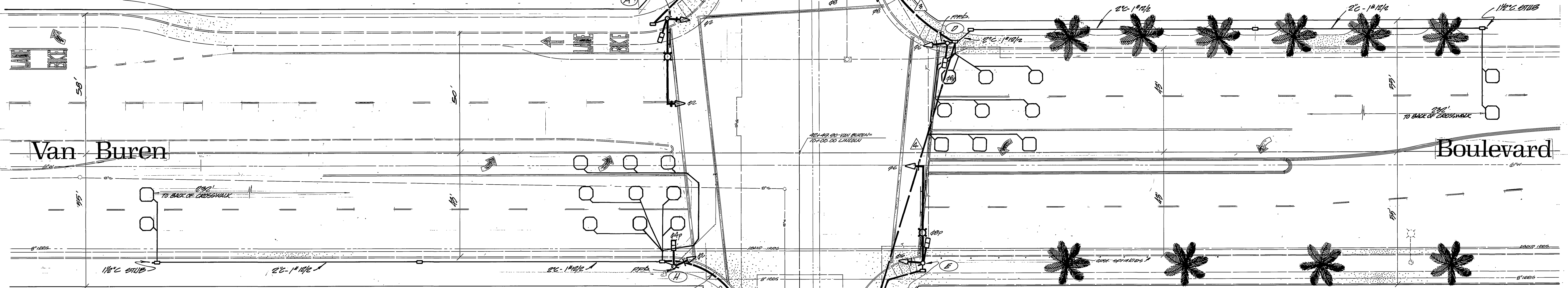
ACCT. NO. X-451  
 SHEET 1 OF 1  
 FILE NO.

CONTRACT TE-91-3

**-PHASE DIAGRAM-**



FLASHING INDICATIONS: ALL RED  
 — PRESENT  
 — FUTURE



**CONDUIT SCHEDULE**

CONTROL FUNCTION	CONDUCTORS SIZE-INSULATION	CONDUIT RUN																			
		1	2	3	4	5	6	7	8	9	10										
VEHICLE HEADS																					
PHASE -1 (Future)	#14 UF																				
-2		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
-4																					
-6																					
-8																					
PEDESTRIAN HEADS																					
PHASE -2			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-4		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
-6																					
-8																					
PEDESTRIAN DETECTORS																					
PHASE -1 (Future)	#12 PE																				
-2																					
-4			2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
-6																					
-8																					
120V COMMON P.P.B.	#14 UF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
120V COMMON	#12 PE																				
120V COMMON	#10 UF	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SIGNAL SERVICE LUMINAIRE	#8 THW	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
TOTALS	#14 UF	10	10	20	20	12	50														
	#12 PE	2	2	2	2	4	12														
	#10 UF	2	2	2	2	4	2														
	#8 THW	2	2	2	2	2	2														
(EQUIV. NO. OF #14)		(10)	(10)	(20)	(20)	(12)	(50)														
CONDUIT SIZE		2"	2 1/4"	2 1/2"	3"	2"	2 1/2"														

**EQUIPMENT SCHEDULE**

LOCATION	STANDARD	VEHICLE HEADS			PEDESTRIAN HEADS			LUMINAIRE	INT ILLUM STREET NAME SIGN	REMARKS
		HEAD	MOUNTING	BACK PLATE	HEAD	MOUNTING	PPB			
A	19A-2-70 203A/162A	1w 3c (18") 1w 3c	MMS SV-I-T	1	1w 2c	SP-I-T	1	400W	Lincoln Ave 2400	
B	1A (10')	1w 3c	TV-I-T	1	1w 2c	SP-I-T	1			
C	17A-2-70 203A/162A	1w 3c (18") 1w 3c	MMS SV-I-T	1	1w 2c	SP-I-T	1	400W	Van Buren Blvd 2400	
D	1A (10')	1w 3c	TV-I-T	1	1w 2c	SP-I-T	1			
E	20A-4-70 203A/162A	1w 3c (18") 1w 3c	MMS SV-I-T	1	1w 2c	SP-I-T	1	400W	Lincoln Ave 2400	
F	1A (10')	1w 3c	TV-I-T	1	1w 2c	SP-I-T	1			
G	17A-2-70 203A/162A	1w 3c (18") 1w 3c	MMS SV-I-T	1	1w 2c	SP-I-T	1	400W	Van Buren Blvd 2400	
H	1A (10')	1w 3c	TV-I-T	1	1w 2c	SP-I-T	1			

NOTES:  
 1. ALL LUMINAIRES ARE HIGH PRESSURE SODIUM VAPOR.  
 2. ALL TYPE 1A STANDARDS ARE ALUMINUM.

UTILIZE FUTURE PHASE 1 CONDUCTORS FOR PHASE 6 INDICATION AT LOCATION D. LABEL CONDUCTORS IN PULLBOXES AND CONTROLLER.

AS-BUILT PER CONT. 10-79-1	ML	3/1/79	<b>CITY OF RIVERSIDE</b> PUBLIC WORKS DEPARTMENT	TRAFFIC SIGNALS	ACCOUNT NO. 30-570-311-07
AS-BUILT PER NON-CORRIGIBLE IMPROVEMENTS 10-79-1	ML	7/24/79		APPROVED BY PRINCIPAL ENGINEER PARK DEPARTMENT TRAFFIC DIVISION CHIEF P.W. ENGINEER PUBLIC UTILITIES	APPROVED BY PUBLIC WORKS DIRECTOR
MARK	REVISIONS	APPR. DATE	DATE 3/6/79	HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 10'	X451 SHEET 2 OF 2 FILE NO.