

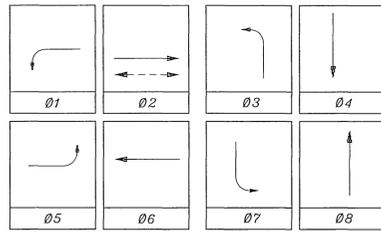
EQUIPMENT SCHEDULE

SIGNAL STANDARD NO.	TYPE	H'CHT	M.A.	LUMINAIRE L.A.	H.P.S.V.	I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS			PPB PHASE	REMARKS	
							VEHICLE	PEDESTRIAN	AUDIBLE			
(A)	26-4-80(N)	30'	(N)	40'	(N)	12'	(N)	250W(R)	MAS(N)			REMOVE AND SALVAGE EXIST. POLE AND EQUIPMENT, EXCEPT LUMINAIRE
									SV-1-T(N)	SP-1-T(N)	((I(P))) (N)	4(N)
(B)	1A(N)	10'	(N)						TV-1-T(N)	SP-1-T(N)	((I(C))) (N)	6(N)
(C)	19-4-80(N)	30'	(N)	30'	(N)	12'	(N)	250W(R)	MAS(N)			REMOVE AND SALVAGE EXIST. POLE AND EQUIPMENT, EXCEPT LUMINAIRE
									SV-1-T(N)	SP-1-T(N)	((I(C))) (N)	6(N)
(D)	1A(N)	10'	(N)						TV-2-T(N)	SP-1-T(N)	((I(P))) (N)	8(N)
(E)	24-4-80(N)	30'	(N)	35'	(N)	12'	(N)	250W(R)	MAS(N)			REMOVE AND SALVAGE EXIST. POLE AND EQUIPMENT, EXCEPT LUMINAIRE
									SV-1-T(N)	SP-1-T(N)	((I(P))) (N)	8(N)
(F)	1A(N)	10'	(N)						TV-1-T(N)	SP-1-T(N)	((I(C))) (N)	2(N)
(G)	19-4-80(N)	30'	(N)	30'	(N)	12'	(N)	250W(R)	MAS(N)			REMOVE AND SALVAGE EXIST. POLE AND EQUIPMENT, EXCEPT LUMINAIRE
									SV-1-T(N)	SP-1-T(N)	((I(C))) (N)	2(N)
(H)	1A(N)	10'	(N)						TV-2-T(N)	SP-1-T(N)	((I(P))) (N)	4(N)

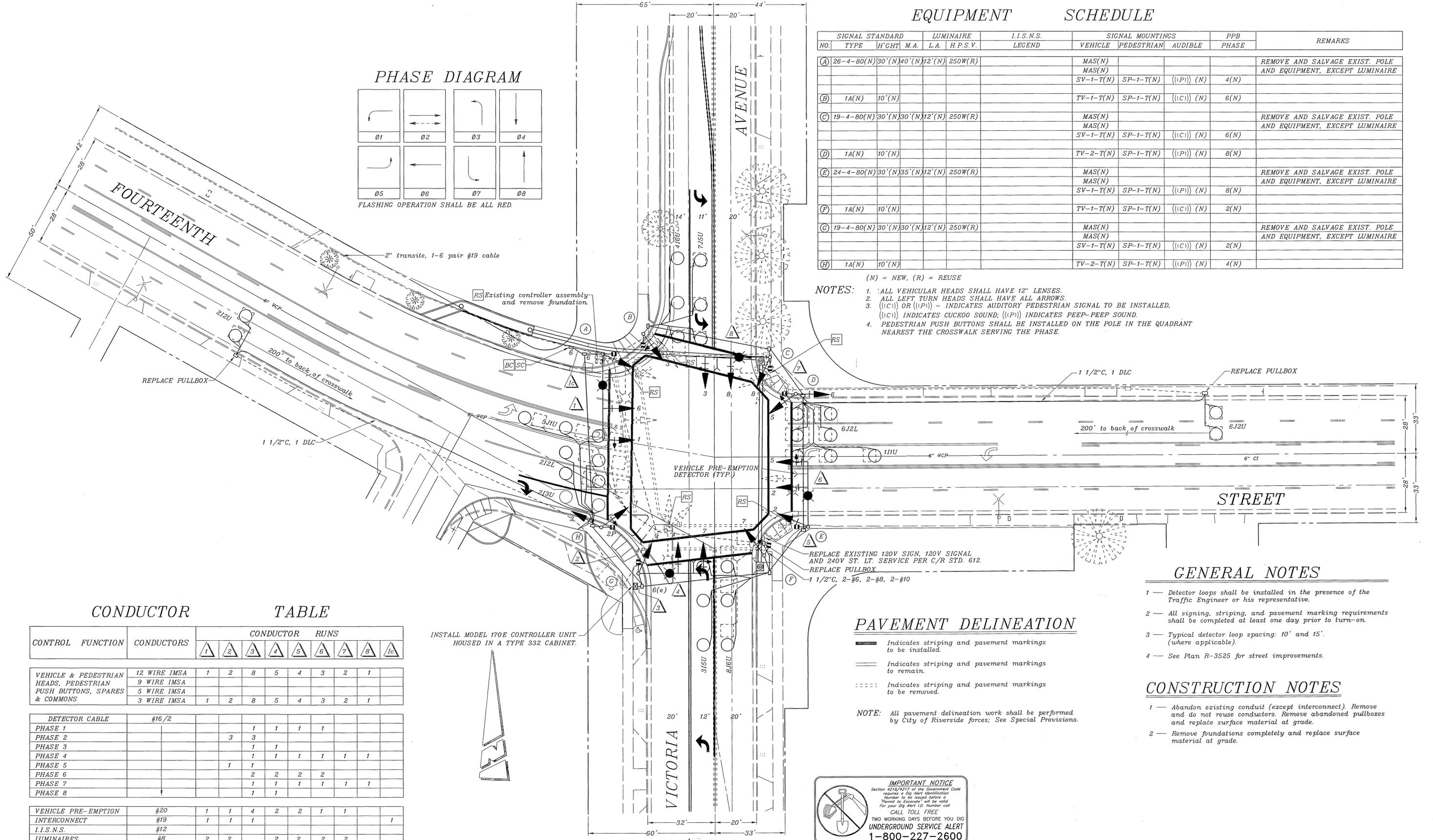
(N) = NEW, (R) = REUSE

- NOTES:
- ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
 - ALL LEFT TURN HEADS SHALL HAVE ALL ARROWS.
 - ((I(C))) OR ((I(P))) - INDICATES AUDITORY PEDESTRIAN SIGNAL TO BE INSTALLED. ((I(C))) INDICATES CUCKOO SOUND; ((I(P))) INDICATES PEEP-PEEP SOUND.
 - PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.

PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.



CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS								
		1	2	3	4	5	6	7	8	1c
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	2	8	5	4	3	2	1	
DETECTOR CABLE	#16/2			1	1	1	1			
PHASE 1										
PHASE 2			3	3						
PHASE 3				1	1					
PHASE 4				1	1	1	1	1	1	
PHASE 5			1	1						
PHASE 6				2	2	2	2			
PHASE 7				1	1	1	1	1	1	
PHASE 8				1	1					
VEHICLE PRE-EMPTION	#20	1	1	4	2	2	1	1		
INTERCONNECT	#19	1	1	1						1
I.I.S.N.S.	#12									
LUMINAIRES	#8	2	2		2	2	2			
SIGNAL SERVICE	#6			2	2					

INSTALL MODEL 170E CONTROLLER UNIT HOUSED IN A TYPE 332 CABINET.

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.

GENERAL NOTES

- Detector loops shall be installed in the presence of the Traffic Engineer or his representative.
- All signing, striping, and pavement marking requirements shall be completed at least one day prior to turn-on.
- Typical detector loop spacing: 10' and 15' (where applicable).
- See Plan R-3525 for street improvements.

CONSTRUCTION NOTES

- Abandon existing conduit (except interconnect). Remove and do not reuse conductors. Remove abandoned pullboxes and replace surface material at grade.
- Remove foundations completely and replace surface material at grade.

IMPORTANT NOTICE
 Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a Permit to Excavate will be valid. For your Dig Alert I.D. Number call CALL TOLL FREE 1-800-227-2600 TWO WORKING DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT

ENGINEER IN CHARGE RESPONSIBLE CHARGE
 THOMAS J. BOYD
 R.C.E. No. 36170 expires 6/30/00
 DATE 4/14/00

REGISTERED PROFESSIONAL ENGINEER
 THOMAS JOHN BOYD
 No. 36170
 Exp. 06-30-2000
 CIVIL
 STATE OF CALIFORNIA

SUPERCEDES PLAN DATED 3-29-2000

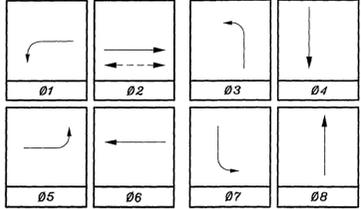
DESIGNED BY: MAC DRAWN BY: MAC CHECKED BY:

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY: [Signature] DATE: 4/17/00
 ENGINEERING MANAGER
 PRINCIPAL ENGINEER
 P.W. INSPECTION
 TRAFFIC DIVISION
 PUBLIC UTILITIES

TRAFFIC SIGNAL MODIFICATION
 VICTORIA AVE.
 @
 FOURTEENTH ST.
 SCALE: 1" = 20'

ACCT. NO. 0430-541600-440303-35111
 X-101
 SHEET 1 OF 1
 FILE NAME: X101.DWG

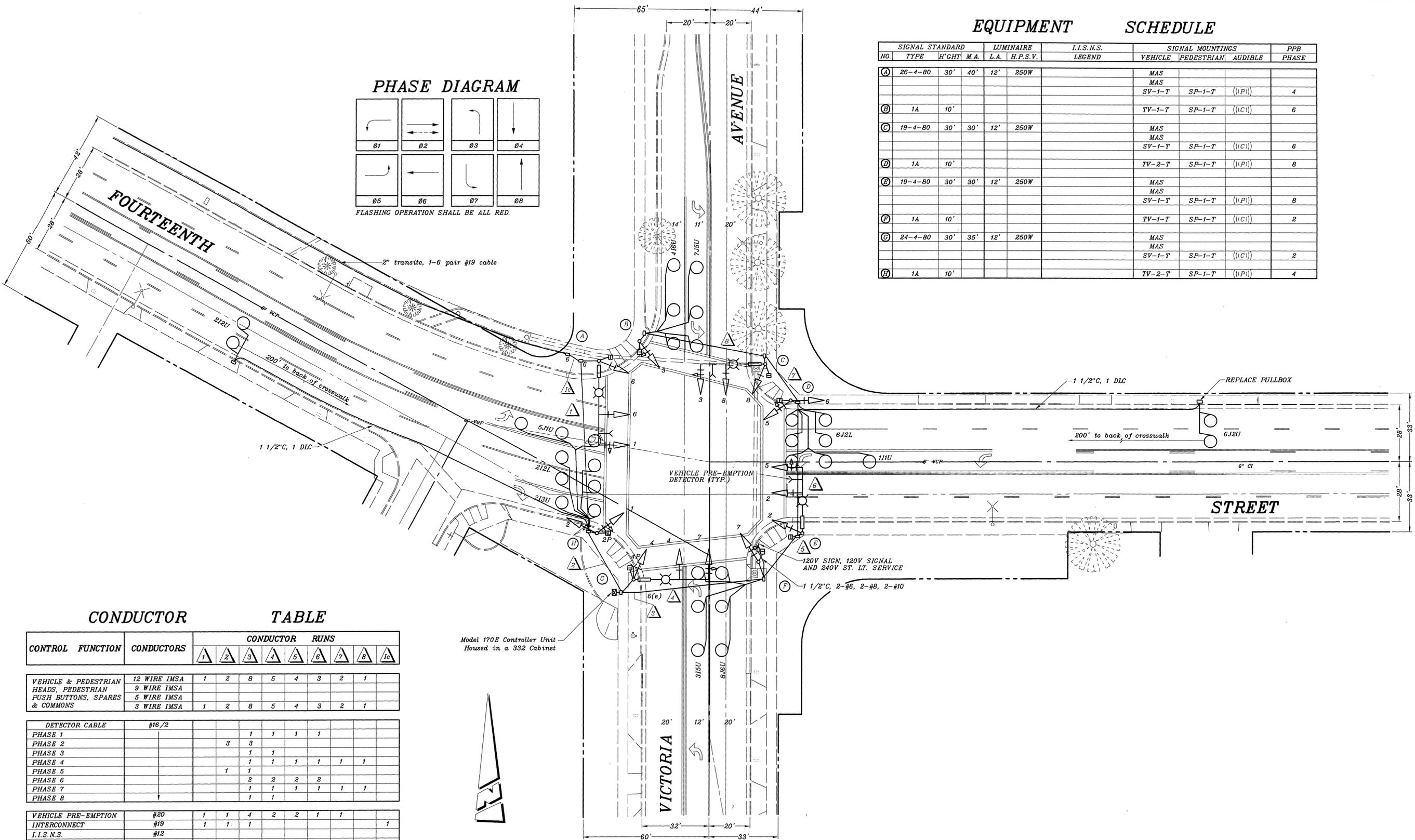
PHASE DIAGRAM



FLASHING OPERATION SHALL BE ALL RED.

EQUIPMENT SCHEDULE

NO.	SIGNAL STANDARD TYPE	H'GHT	M.A.	LUMINAIRE		I.I.S.N.S. LEGEND	SIGNAL MOUNTINGS			PPB PHASE
				L.A.	H.P.S.V.		VEHICLE	PEDESTRIAN	AUDIBLE	
(A)	26-4-80	30'	40'	12'	250W		MAS			
							MAS			
							SV-1-T	SP-1-T	((IPI))	4
(B)	1A	10'					TV-1-T	SP-1-T	((ICI))	6
(C)	19-4-80	30'	30'	12'	250W		MAS			
							MAS			
							SV-1-T	SP-1-T	((ICI))	6
(D)	1A	10'					TV-2-T	SP-1-T	((IPI))	8
(E)	19-4-80	30'	30'	12'	250W		MAS			
							MAS			
							SV-1-T	SP-1-T	((IPI))	8
(F)	1A	10'					TV-1-T	SP-1-T	((ICI))	2
(G)	24-4-80	30'	35'	12'	250W		MAS			
							MAS			
							SV-1-T	SP-1-T	((ICI))	2
(H)	1A	10'					TV-2-T	SP-1-T	((IPI))	4

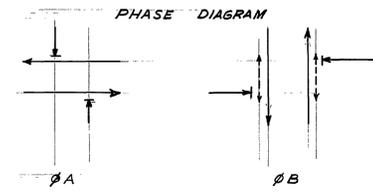


CONDUCTOR TABLE

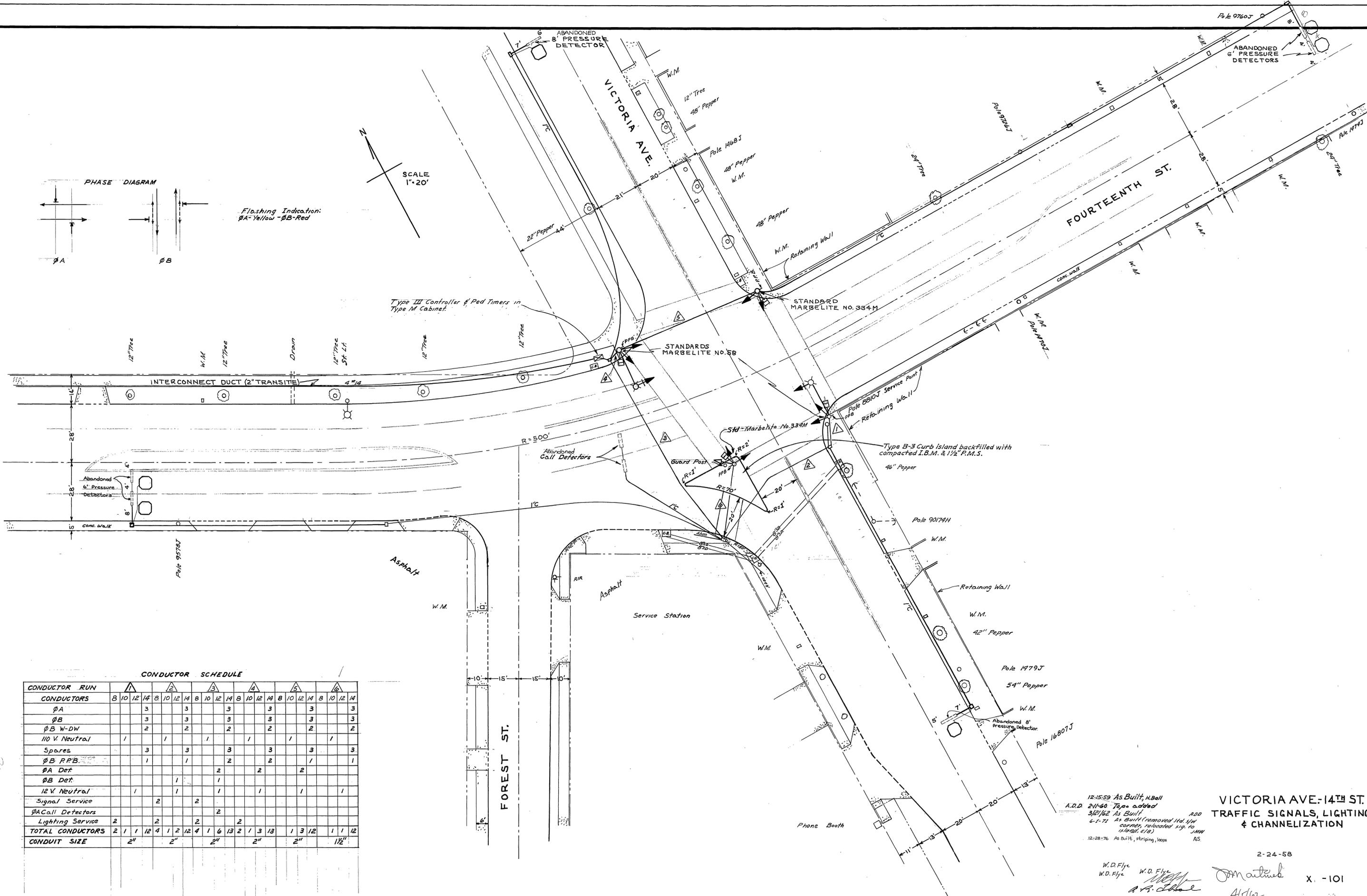
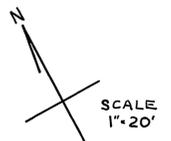
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS								
		1	2	3	4	5	6	7	8	9
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 WIRE IMSA 9 WIRE IMSA 5 WIRE IMSA 3 WIRE IMSA	1	2	8	5	4	3	2	1	
DETECTOR CABLE	#16/2				1	1	1	1		
PHASE 1										
PHASE 2			3	3						
PHASE 3				1	1					
PHASE 4				1	1	1	1	1	1	1
PHASE 5			1	1						
PHASE 6				2	2	2	2			
PHASE 7				1	1	1	1	1	1	1
PHASE 8				1	1					
VEHICLE PRE-EMPTION INTERCONNECT	#20 #19	1	1	4	2	2	1	1		1
I.I.S.N.S.	#12									
LUMINAIRES	#8	2	2	2	2	2	2	2		
SIGNAL SERVICE	#6			2	2					
CONDUIT SIZE		3"	3"	2-3"	3"	3"	3"	3"	2"	1.5"

NOTE: INTERCONNECT CABLE IS 6 PAIR #19 GAUGE

AS-BUILT PER R-3525 ADD STRIPING AND LOOPS RELOCATE STD. S/W CORNER ADD TOPO AS-BUILT PER SIGNALIZATION MARK REVISIONS	MAC 8/02 AS 12/76 JMW 6/71 ADD 2/60 H.D. 12/59 APPR. DATE	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: _____ BY: _____ DATE: _____ ENGINEERING MANAGER PRINCIPAL ENGINEER P.W. INSPECTION TRAFFIC DIVISION PUBLIC UTILITIES	TRAFFIC SIGNAL VICTORIA AVE. @ FOURTEENTH ST. SCALE: 1" = 20'	ACCT. NO. X-101 SHEET 1 OF 1 FILE NAME: X101.DWG
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Flashing Indication:
ØA - Yellow - ØB - Red



CONDUCTOR SCHEDULE

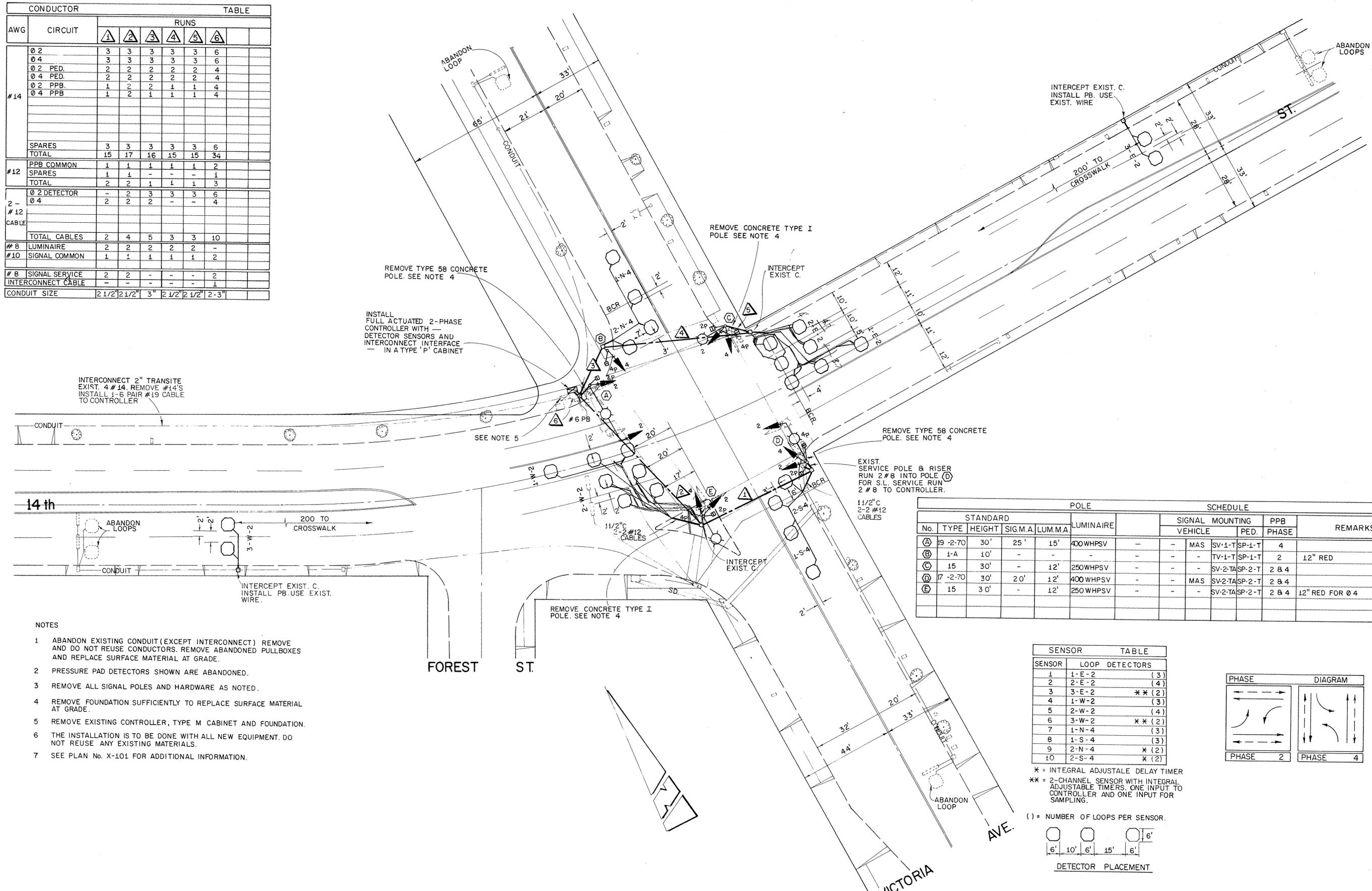
CONDUCTOR RUN	1			2			3			4			5			6		
CONDUCTORS	8	10	12	8	10	12	8	10	12	8	10	12	8	10	12	8	10	12
ØA			3			3			3			3			3			3
ØB			3			3			3			3			3			3
ØB W-DW			2			2			2			2			2			2
110 V Neutral	1			1			1			1			1			1		
Spares			3			3			3			3			3			3
ØB P.P.B.			1			1			2			2			1			1
ØA Det									2			2			2			
ØB Det						1			1									
12 V Neutral	1			1			1			1			1			1		
Signal Service			2			2												
ØA Call Detectors									2									
Lighting Service	2			2			2			2			2			2		
TOTAL CONDUCTORS	2	1	12	4	1	2	12	4	1	6	13	2	1	3	13	1	3	12
CONDUIT SIZE	2"			2"			2"			2"			2"			1 1/2"		

12-15-59 As Built, H.Ball
 A.D.D. 2-11-60 Type added
 3/12/62 As Built
 6-1-71 As Built (removed 1st SW corner, relocated sig. to island) (1/8)
 12-28-76 As Built, striping, loops AS

VICTORIA AVE-14TH ST.
 TRAFFIC SIGNALS, LIGHTING
 & CHANNELIZATION

2-24-58
 W.D. Flye
 W.D. Flye
 W.D. Flye
 W.D. Flye
 J. Mattheis
 4/8/62

CONDUCTOR		TABLE					
AWG	CIRCUIT	RUNS					
		1	2	3	4	5	6
#14	Ø 2	3	3	3	3	3	6
	Ø 4	3	3	3	3	3	6
	Ø 2 PED.	2	2	2	2	2	4
	Ø 4 PED.	2	2	2	2	2	4
	Ø 2 PPB.	1	2	2	1	1	4
Ø 4 PPB.	1	2	1	1	1	4	
SPARES		3	3	3	3	3	6
TOTAL		15	17	16	15	15	34
#12	PPB COMMON	1	1	1	1	1	2
	SPARES	1	1	-	-	-	1
TOTAL		2	2	1	1	1	3
2 - #12 CABLE	Ø 2 DETECTOR	-	2	3	3	3	6
	Ø 4	2	2	2	-	-	4
TOTAL CABLES		2	4	5	3	3	10
#8	LUMINAIRE	2	2	2	2	2	-
#10	SIGNAL COMMON	1	1	1	1	1	2
#8	SIGNAL SERVICE	2	2	-	-	-	2
	INTERCONNECT CABLE	-	-	-	-	-	1
CONDUIT SIZE		2 1/2"	2 1/2"	3"	2 1/2"	2 1/2"	2-3"



INTERCONNECT 2" TRANSITE EXIST. 4 #14. REMOVE #14'S. INSTALL 1-6 PAIR #19 CABLE TO CONTROLLER

REMOVE TYPE 58 CONCRETE POLE. SEE NOTE 4

INSTALL FULL ACTUATED 2-PHASE CONTROLLER WITH DETECTOR SENSORS AND INTERCONNECT INTERFACE IN A TYPE 'P' CABINET

REMOVE CONCRETE TYPE I POLE. SEE NOTE 4

INTERCEPT EXIST. C.

REMOVE TYPE 58 CONCRETE POLE. SEE NOTE 4

EXIST. SERVICE POLE & RISER RUN 2#8 INTO POLE (D) FOR S.L. SERVICE RUN 2#8 TO CONTROLLER.

1 1/2" C 2-2 #12 CABLES

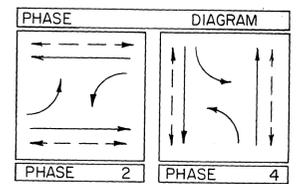
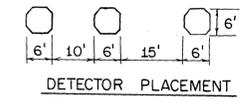
STANDARD				POLE		SCHEDULE				REMARKS
No.	TYPE	HEIGHT	SIG.M.A.	LUM.M.A.	LUMINAIRE	SIGNAL VEHICLE	MOUNTING	PPB PHASE		
(A)	19 -2-70	30'	25'	15'	400WHPSV	-	MAS SV-1-T	SP-1-T	4	
(B)	1-A	10'	-	-	-	-	TV-1-T	SP-1-T	2	12" RED
(C)	15	30'	-	12'	250WHPSV	-	SV-2-TA	SP-2-T	2 & 4	
(D)	17 -2-70	30'	20'	12'	400WHPSV	-	MAS SV-2-TA	SP-2-T	2 & 4	
(E)	15	30'	-	12'	250WHPSV	-	SV-2-TA	SP-2-T	2 & 4	12" RED FOR Ø 4

- NOTES
- 1 ABANDON EXISTING CONDUIT (EXCEPT INTERCONNECT) REMOVE AND DO NOT REUSE CONDUCTORS. REMOVE ABANDONED PULLBOXES AND REPLACE SURFACE MATERIAL AT GRADE.
 - 2 PRESSURE PAD DETECTORS SHOWN ARE ABANDONED.
 - 3 REMOVE ALL SIGNAL POLES AND HARDWARE AS NOTED.
 - 4 REMOVE FOUNDATION SUFFICIENTLY TO REPLACE SURFACE MATERIAL AT GRADE.
 - 5 REMOVE EXISTING CONTROLLER, TYPE M CABINET AND FOUNDATION.
 - 6 THE INSTALLATION IS TO BE DONE WITH ALL NEW EQUIPMENT. DO NOT REUSE ANY EXISTING MATERIALS.
 - 7 SEE PLAN No. X-101 FOR ADDITIONAL INFORMATION.

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	1-S-4	(3)
9	2-N-4	* (2)
10	2-S-4	* (2)

* = INTEGRAL ADJUSTABLE DELAY TIMER
 ** = 2-CHANNEL SENSOR WITH INTEGRAL ADJUSTABLE TIMERS. ONE INPUT TO CONTROLLER AND ONE INPUT FOR SAMPLING.

() = NUMBER OF LOOPS PER SENSOR.



MPI MOHLE, PERRY & ASSOC
 PREPARED BY R. H. Mallory, 12/1/82
 DESIGN ENGR. R.C.E. 10692 DATE

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 APPROVED BY [Signature] DATE 12/1/82
 TRAFFIC DIVISION
 CHIEF P. W. ENGR. [Signature] DATE 12/1/82
 PUBLIC UTILITIES

TRAFFIC SIGNAL PLAN
 14th STREET AT
 VICTORIA STREET
 HORIZ. SCALE: 1" = 20'
 VERT. SCALE: 1" = 20'

PROJECT NO. _____
 SHEET 46 OF 50
 FILE NO. _____