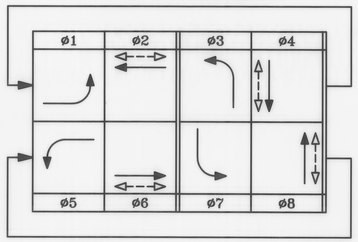
CONDUCTOR SCHEDULE

A.W.G. OR D.L.C.	CIRCUIT	CONDUIT RUNS 1	2	3	4	5	6	7	8
#14	ø1 VEHICLE				3	3	3	3	
	ø2 VEHICLE				3	3			
	ø3 VEHICLE					6	3	3	
	ø4 VEHICLE		3	3	3	3			
	ø5 VEHICLE			3	3	3			
	ø6 VEHICLE						3	3	
	ø7 VEHICLE		3	3	3	6	3	3	3
	ø8 VEHICLE					3	3		
	ø2 PEDESTRIAN				2	2	2		
	ø4 PEDESTRIAN	2	2	2	4				
	ø6 PEDESTRIAN			2	2	2	2	2	2
	ø8 PEDESTRIAN		2	2	2	2	4	2	2
	ø2 P.P.B.				2		2	1	
	ø4 P.P.B.		1	1	1				
	ø6 P.P.B.	1	1	1	2	1	1	1	1
	ø8 P.P.B.				1				
	P.P.B. COMMON	1	1	1	2	1	1	1	1
	SPARES	3	3	3	9	3	3	3	3
	TOTAL #14	12	16	19	53	27	23	18	15
#12	I.I.S.N.S.	–	2	2	2	–	2	2	2
#10	SIGNAL COMMON	1	1	1	2	1	1	1	1
#8	LUMINAIRES	–	2	2	2	–	2	2	2
	SERVICE	–	–	–	–	2	–	–	–
	TOTAL #10	–	2	2	2	2	2	2	2
TYPE "C" D.L.C.	ø1 DETECTOR			1	1				
	ø2 DETECTOR				3	3	3		
	ø3 DETECTOR	1	1	1	1				
	ø4 DETECTOR				3				
	ø5 DETECTOR				1	1	1		
	ø6 DETECTOR		3	3	3				
	ø7 DETECTOR				1				
	ø8 DETECTOR	1	1	1	3	2	2	2	2
	TOTAL D.L.C.	2	5	6	15	6	6	2	2
CONDUIT SIZE (IN)		(E) 2	(E) 2.5	(E) 3	(E) 2-2.5	(E) 2.5	(E) 2.5	(E) 2	(N) 2

(N)=NEW CONDUIT (E)=EXISTING CONDUIT
REMOVE AND INSTALL ALL NEW CONDUCTORS IN RUNS 4, 5, 6, 7, AND 8.

PHASE DIAGRAM



POLE AND EQUIPMENT SCHEDULE

POLE NO.	SIGNAL STANDARD DESCRIPTION	POLE HEIGHT	SIGNAL MAST ARM	LUMINAIRE MAST ARM	HPSV LUMINAIRE	I.I.S.N.S. LEGEND	SIGNAL MOUNTING MAST ARM VEHICLE	POLE VEHICLE	POLE PEDESTRIAN	PED PUSH BUTTONS Ø	ARROW	REMARKS
(A)	1-A	10'	–	–	–	–	–	TV-1-T	SP-1-T	2	←	EXISTING POLE TO REMAIN
(B)	26-4-70	30'	45'	15'	400W	Blaine St 1200	2-MAS	SV-1-T	SP-1-T	2	←	EXISTING POLE TO REMAIN
(C)	1-A	10'	–	–	–	–	–	TV-1-T	SP-1-T	8	→	EXISTING POLE TO REMAIN
(D)	24-4-70	30'	35'	12'	400W	Iowa Ave 3300	2-MAS	SV-1-T	SP-1-T	8	←	RELOCATE EXISTING POLE
(E)	1-A	10'	–	–	–	–	–	TV-1-T	SP-2-T	6	→	RELOCATE EXISTING POLE
(F)	26-4-70	30'	40'	15'	400W	Blaine St 1200	2-MAS	SV-1-T	SP-1-T	6	←	EXISTING POLE TO REMAIN
(G)	1-A	10'	–	–	–	–	–	TV-1-T	SP-1-T	4	→	EXISTING POLE TO REMAIN
(H)	24-4-70	30'	35'	12'	400W	Iowa Ave 3200	2-MAS	SV-1-T	SP-1-T	4	←	EXISTING POLE TO REMAIN

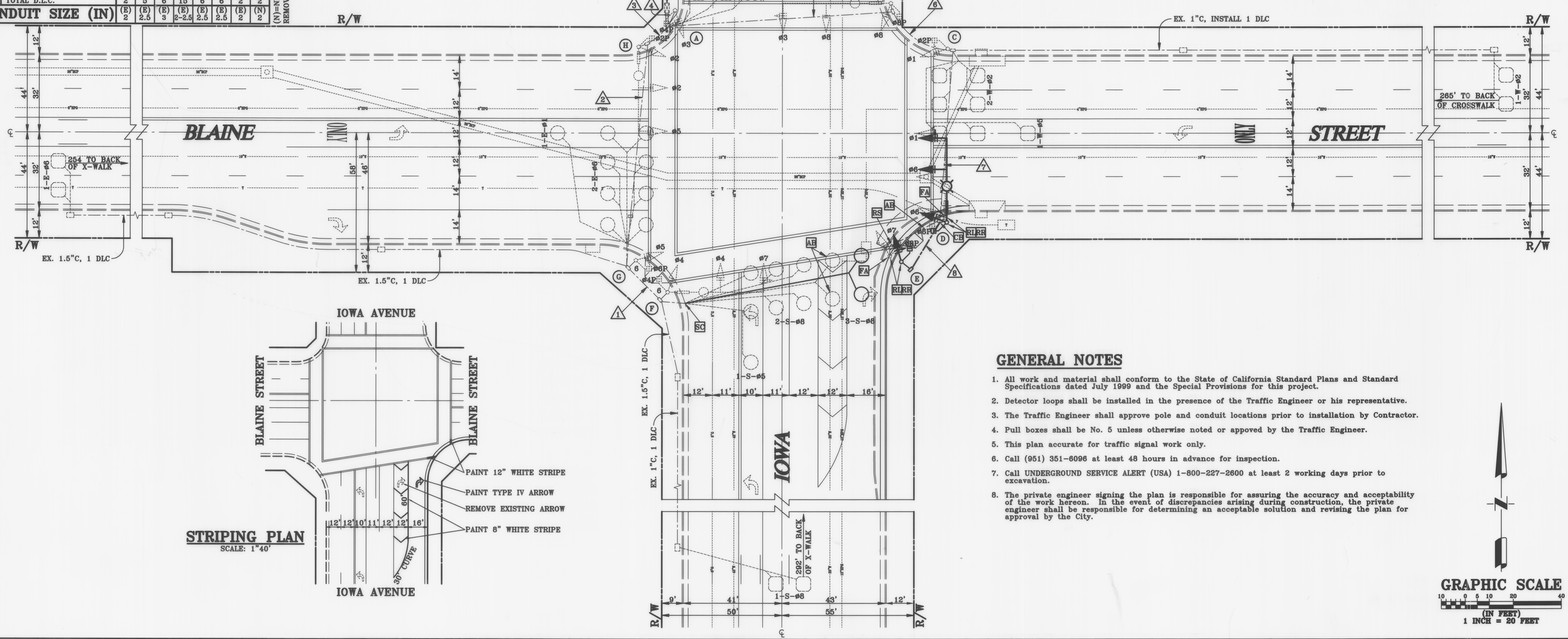
CONSTRUCTION NOTES

1 — Abandon existing ø8 front right loop detectors as shown on the plan.

2 — Install new ø8 front right loop detectors as shown on the plan.

3 — Relocated pole (D) and equipment to new pole location as shown on the plan.

4 — Relocated pole (E) and equipment to new pole location as shown on the plan.



STRIPING PLAN
SCALE: 1"40'

GENERAL NOTES

1. All work and material shall conform to the State of California Standard Plans and Standard Specifications dated July 1999 and the Special Provisions for this project.
2. Detector loops shall be installed in the presence of the Traffic Engineer or his representative.
3. The Traffic Engineer shall approve pole and conduit locations prior to installation by Contractor.
4. Pull boxes shall be No. 5 unless otherwise noted or appoved by the Traffic Engineer.
5. This plan accurate for traffic signal work only.
6. Call (951) 351-6096 at least 48 hours in advance for inspection.
7. Call UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 at least 2 working days prior to excavation.
8. The private engineer signing the plan 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 plan for approval by the City.

GRAPHIC SCALE
10 0 5 10 20 40
(IN FEET)
1 INCH = 20 FEET

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

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 — LAWRENCE S. EISENHART — NO. 13493 — Exp. 3-31-07 — CIVIL — STATE OF CALIFORNIA

ENGINEER IN RESPONSIBLE CHARGE:
LAWRENCE S. EISENHART RCE NO. 13493
EXPIRATION DATE: 3-31-07

SCALE: 1"=20'
DATE: 11/11/05

LAWRENCE S. EISENHART
CONSULTING ENGINEER
2070 Locust Court
San Bernardino, California 92404
Tel: (909) 864-5406 Fax: (909) 864-5047

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: L.S.E. DRAWN BY: L.S.E. CHECKED BY:

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY:	BY	DATE
PRINCIPLE ENGR.	[illegible]	1/2/07
TRAFFIC DIVISION	[illegible]	1/2/07

APPROVED BY [signature]
CITY ENGINEER
DATE 1/4/07

TRAFFIC SIGNAL MODIFICATION PLAN
IOWA AVENUE and BLAINE STREET
SCALE: 1"=20'

PROJECT NO: X-409B
SHEET 1 OF 1
FILE NAME: 409B.DWG

File No. 06-30

CONDUCTOR SCHEDULE

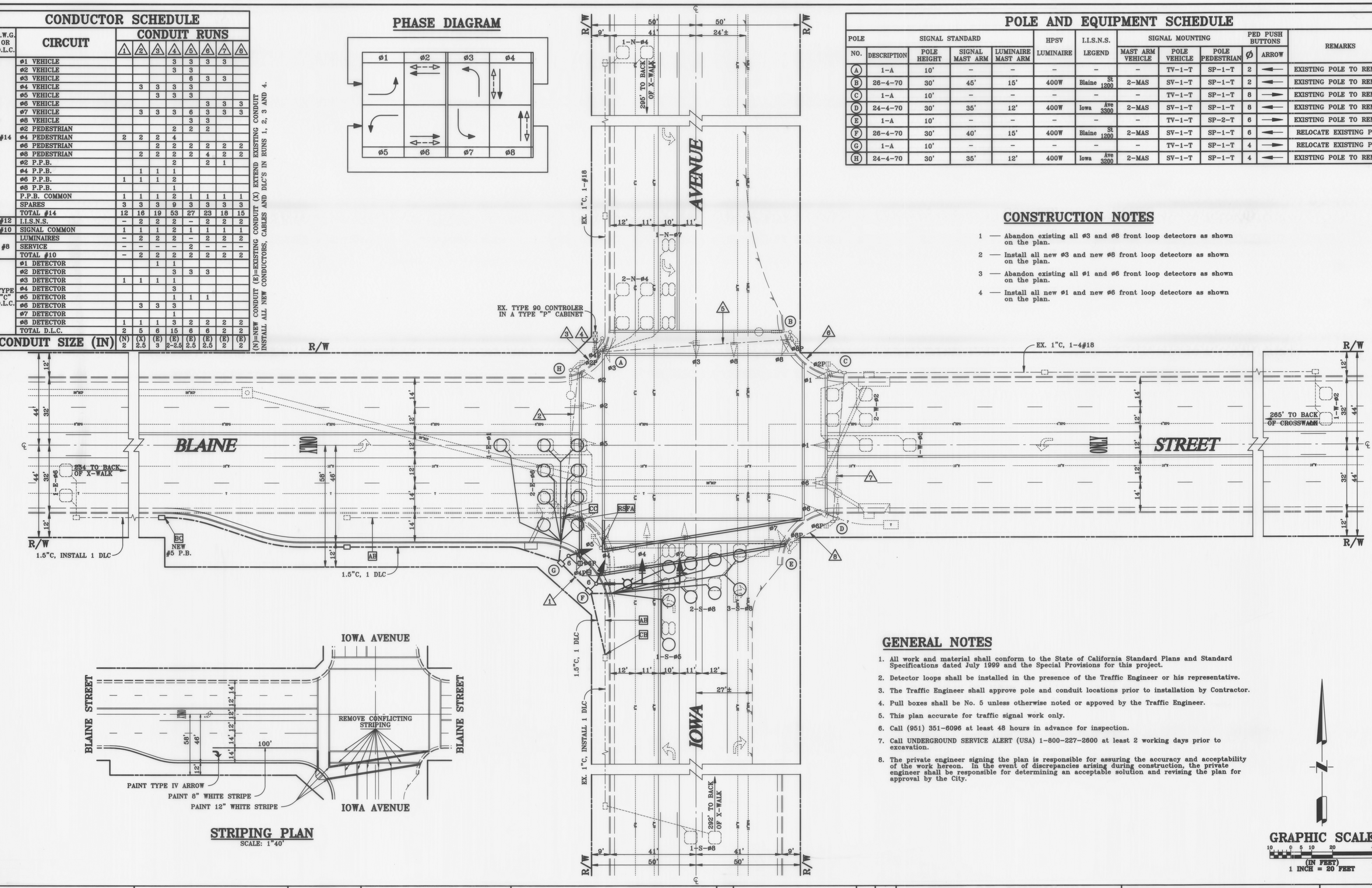
A.W.G. OR D.L.C.	CIRCUIT	CONDUIT RUNS 1	2	3	4	5	6	7	8
#14	ø1 VEHICLE				3	3	3	3	
	ø2 VEHICLE				3	3			
	ø3 VEHICLE					6	3	3	
	ø4 VEHICLE		3	3	3	3			
	ø5 VEHICLE			3	3	3			
	ø6 VEHICLE						3	3	3
	ø7 VEHICLE		3	3	3	6	3	3	3
	ø8 VEHICLE					3	3		
	ø2 PEDESTRIAN				2	2	2		
	ø4 PEDESTRIAN	2	2	2	4				
	ø6 PEDESTRIAN			2	2	2	2	2	2
	ø8 PEDESTRIAN		2	2	2	2	4	2	2
	ø2 P.P.B.				2		2	1	
	ø4 P.P.B.		1	1	1				
	ø6 P.P.B.	1	1	1	2				
	ø8 P.P.B.				1				
	P.P.B. COMMON	1	1	1	2	1	1	1	1
	SPARES	3	3	3	9	3	3	3	3
	TOTAL #14	12	16	19	53	27	23	18	15
#12	I.I.S.N.S.	–	2	2	2	–	2	2	2
#10	SIGNAL COMMON	1	1	1	2	1	1	1	1
#8	LUMINAIRES	–	2	2	2	–	2	2	2
	SERVICE	–	–	–	–	2	–	–	–
	TOTAL #10	–	2	2	2	2	2	2	2
TYPE "C" D.L.C.	ø1 DETECTOR			1	1				
	ø2 DETECTOR				3	3	3		
	ø3 DETECTOR	1	1	1	1				
	ø4 DETECTOR				3				
	ø5 DETECTOR				1	1	1		
	ø6 DETECTOR		3	3	3				
	ø7 DETECTOR				1				
	ø8 DETECTOR	1	1	1	3	2	2	2	2
	TOTAL D.L.C.	2	5	6	15	6	6	2	2
CONDUIT SIZE (IN)		(N) 2	(X) 2.5	(E) 3	(E) 2-2.5	(E) 2.5	(E) 2.5	(E) 2	(E) 2

(N)=NEW CONDUIT (E)=EXISTING CONDUIT (X) EXTEND EXISTING CONDUIT
INSTALL ALL NEW CONDUCTORS, CABLES AND DLC'S IN RUNS 1, 2, 3 AND 4.

PHASE DIAGRAM

POLE AND EQUIPMENT SCHEDULE

POLE NO.	SIGNAL STANDARD DESCRIPTION	POLE HEIGHT	SIGNAL MAST ARM	LUMINAIRE MAST ARM	HPSV LUMINAIRE	I.I.S.N.S. LEGEND	SIGNAL MOUNTING MAST ARM VEHICLE	POLE VEHICLE	POLE PEDESTRIAN	PED PUSH BUTTONS Ø	ARROW	REMARKS
(A)	1-A	10'	–	–	–	–	–	TV-1-T	SP-1-T	2	←	EXISTING POLE TO REMAIN
(B)	26-4-70	30'	45'	15'	400W	Blaine St 1200	2-MAS	SV-1-T	SP-1-T	2	←	EXISTING POLE TO REMAIN
(C)	1-A	10'	–	–	–	–	–	TV-1-T	SP-1-T	8	→	EXISTING POLE TO REMAIN
(D)	24-4-70	30'	35'	12'	400W	Iowa Ave 3300	2-MAS	SV-1-T	SP-1-T	8	←	EXISTING POLE TO REMAIN
(E)	1-A	10'	–	–	–	–	–	TV-1-T	SP-2-T	6	→	EXISTING POLE TO REMAIN
(F)	26-4-70	30'	40'	15'	400W	Blaine St 1200	2-MAS	SV-1-T	SP-1-T	6	←	RELOCATE EXISTING POLE
(G)	1-A	10'	–	–	–	–	–	TV-1-T	SP-1-T	4	→	RELOCATE EXISTING POLE
(H)	24-4-70	30'	35'	12'	400W	Iowa Ave 3200	2-MAS	SV-1-T	SP-1-T	4	←	EXISTING POLE TO REMAIN



STRIPING PLAN
SCALE: 1"40'

CONSTRUCTION NOTES

1 — Abandon existing all ø3 and ø8 front loop detectors as shown on the plan.

2 — Install all new ø3 and new ø8 front loop detectors as shown on the plan.

3 — Abandon existing all ø1 and ø6 front loop detectors as shown on the plan.

4 — Install all new ø1 and new ø6 front loop detectors as shown on the plan.

GENERAL NOTES

1. All work and material shall conform to the State of California Standard Plans and Standard Specifications dated July 1999 and the Special Provisions for this project.
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3. The Traffic Engineer shall approve pole and conduit locations prior to installation by Contractor.
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REGISTERED PROFESSIONAL ENGINEER — LAWRENCE S. EISENHART — NO. 13493 — Exp. 3-31-07 — CIVIL — STATE OF CALIFORNIA

ENGINEER IN RESPONSIBLE CHARGE:
LAWRENCE S. EISENHART RCE NO. 13493
EXPIRATION DATE: 3-31-07

SCALE: 1"=20'
DATE: 11/11/05

LAWRENCE S. EISENHART
CONSULTING ENGINEER
2070 Locust Court
San Bernardino, California 92404
Tel: (909) 864-5406 Fax: (909) 864-5047

MARK	REVISIONS	APPR.	DATE

DESIGNED BY: L.S.E. DRAWN BY: L.S.E. CHECKED BY:

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	APPROVED BY:	DATE
PRINCIPLE ENGR.		
TRAFFIC DIVISION		11/22/05

APPROVED BY
CITY ENGINEER
DATE 11/22/05

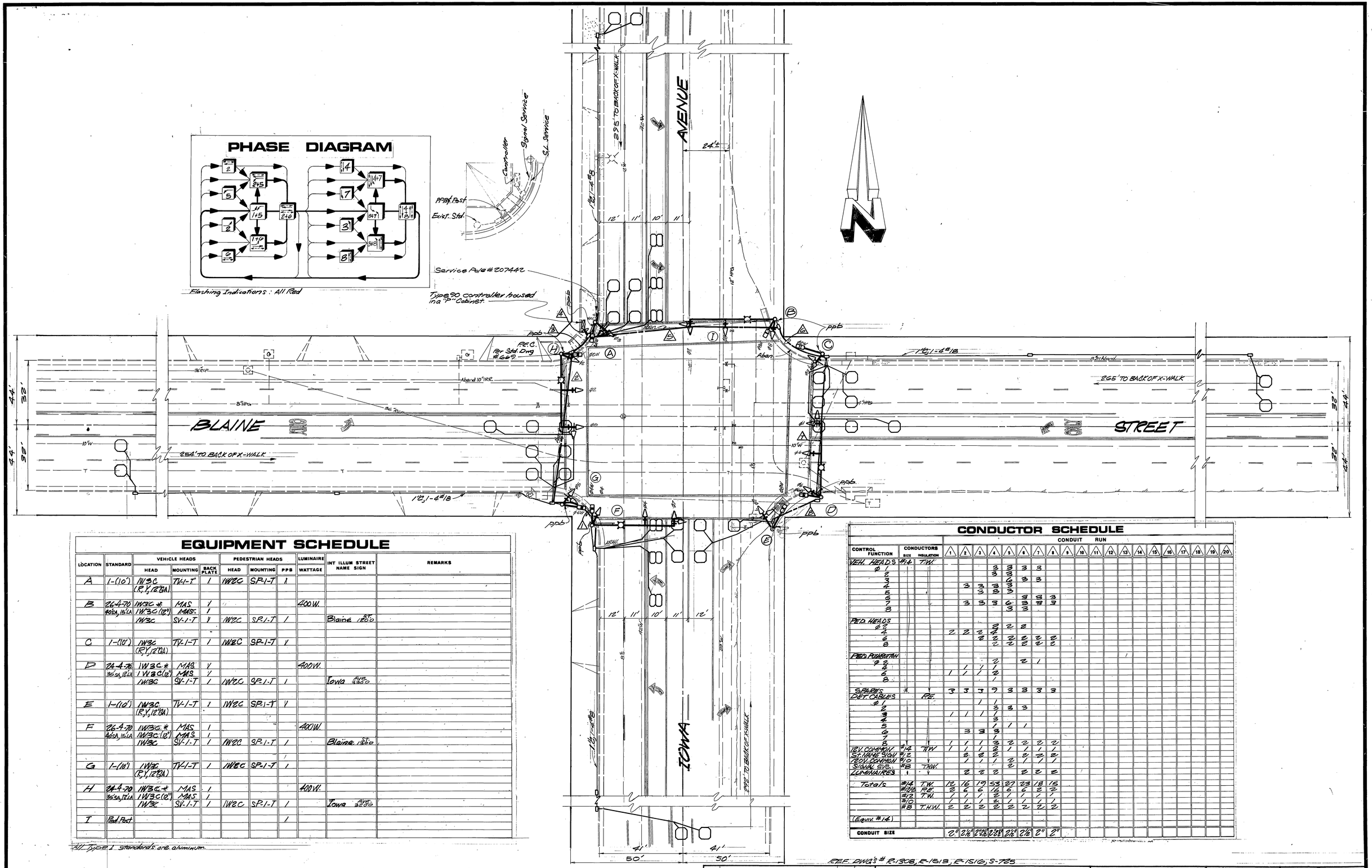
TRAFFIC SIGNAL MODIFICATION PLAN

IOWA AVENUE and BLAINE STREET

SCALE: 1"=20'

PROJECT NO: X-409A
SHEET 1 OF 1
FILE NAME: X409A.DWG

File No. 05-27



EQUIPMENT SCHEDULE

LOCATION	STANDARD	VEHICLE HEADS			PEDESTRIAN HEADS			LUMINAIRE	INT ILLUM STREET NAME SIGN	REMARKS
		HEAD	MOUNTING	BACK PLATE	HEAD	MOUNTING	PPB	WATTAGE		
A	1-(10')	1W3C (R,Y,12"GA)	TV-1-T	1	1W2C	SP-1-T	1			
B	26-4-70 #9SA, 15LA	1W3C *	MAS	1				400 W.		
		1W3C (12")	MAS	1						
		1W3C	SV-1-T	1	1W2C	SP-1-T	1		Blaine ST. 1200	
C	1-(10')	1W3C (R,Y,12"GA)	TV-1-T	1	1W2C	SP-1-T	1			
D	26-4-70	1W3C *	MAS	1				400 W.		
	35SA, 12LA	1W3C (12")	MAS	1						
		1W3C	SV-1-T	1	1W2C	SP-1-T	1		Iowa AVE. 3300	
E	1-(10')	1W3C (R,Y,12"GA)	TV-1-T	1	1W2C	SP-1-T	1			
F	26-4-70	1W3C *	MAS	1				400 W.		
	40SA, 15LA	1W3C (12")	MAS	1						
		1W3C	SV-1-T	1	1W2C	SP-1-T	1		Blaine ST. 1360	
G	1-(10')	1W3C (R,Y,12"GA)	TV-1-T	1	1W2C	SP-1-T	1			
H	26-4-70	1W3C *	MAS	1				400 W.		
	35SA, 12LA	1W3C (12")	MAS	1						
		1W3C	SV-1-T	1	1W2C	SP-1-T	1		Iowa AVE. 3280	
I	Ped. Post						1			

All Type 1 standards are aluminum.

CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	INSULATION	CONDUIT RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VEH. HEADS	#14	T.H.W.																				
ø 1						3	3	3	3													
2						3	3															
3								3	3													
4				3	3	3	3															
5						3	3															
6								3	3	3												
7				3	3	3	3	3	3	3												
8								3	3													
PED HEADS																						
ø 2						2	2	2														
4			2	2	2	2																
6						2	2	2	2	2												
8							2	2	2	2												
PED RECALL																						
ø 2							2		2	1												
4				/	/																	
6			1	/	/	/	2															
8						/																
SPARES DET. CABLES	#14	PE	3	3	3	3	3	3	3	3												
ø 1						/	/															
2							3	3	3													
3			/	/	/	/																
4						3																
5						/	/	/														
6				3	3	3																
7						/																
8			/	/	/	3	2	2	2	2												
TRV. COMMON	#14	T.H.W.	/	/	/	2	/	/	/	/												
ST. NAME SIGN	#12			2	2	2		2	2	2												
TRAV. COMMON	#12			/	/	/	2	/	/	/												
SIGNAL SVC.	#8	T.H.W.					2															
LUMINAIRES				2	2	2		2	2	2												
Totals	#14	T.W.	12	16	19	53	27	23	18	15												
	#12/0	PE	2	6	6	16	6	6	2	2												
	#12	T.W.	/	/	/	2	/	/	/	/												
	#12		/	/	/	2	/	/	/	/												
	#8	T.H.W.	2	2	2	2	2	2	2	2												
(Equiv. #14)																						
CONDUIT SIZE			2"	2½"	2½"	2½"	2½"	2½"	2"	2"												

REF. DWG'S # R-1308, R-1513, R-1516, S-785

As-Built Per Cont. TE-81-1 — MRL 7/16/81

MARK REVISIONS APPR. DATE

DESIGNED BY [illegible] DRAWN BY [illegible] CHECKED BY [illegible]

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY		
PRINCIPAL ENGINEER	[illegible]	11/13/81
PARK DEPARTMENT		
TRAFFIC DIVISION	[illegible]	11/13/81
CHIEF P.W. ENGINEER	[illegible]	11/13/81
PUBLIC UTILITIES	[illegible]	11/13/81

APPROVED BY [illegible]
PUBLIC WORKS DIRECTOR
DATE 11/13/81

TRAFFIC SIGNAL
IOWA AVENUE AT BLAINE STREET
SCALE 1"=20'

ACCOUNT NO. 30-526304-07

X-409

SHEET ____ OF ____