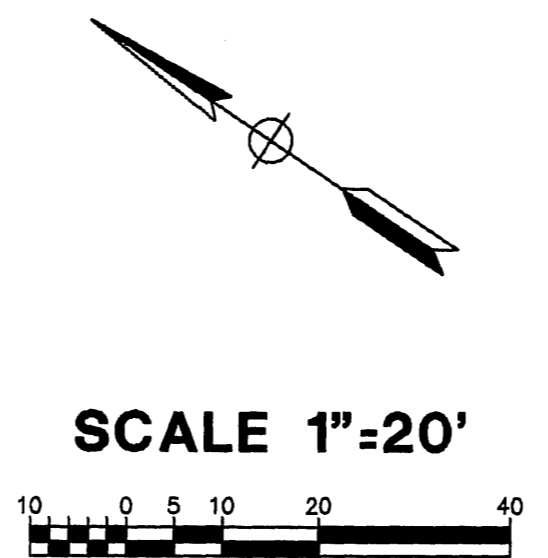
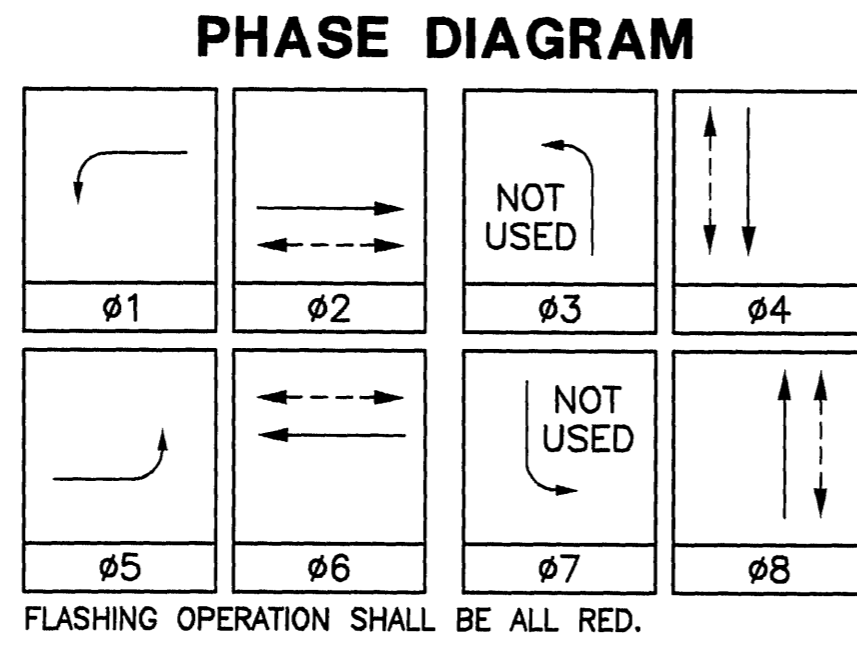


CONDUCTOR SCHEDULE											
A.W.G. OR D.L.C.	CIRCUIT	RUNS									
		1	2	3	4	5	6	7	8	9	10
	#1 VEHICLE										
	#2 VEHICLE										
	#4 VEHICLE										
	#5 VEHICLE										
	#6 VEHICLE										
	#8 VEHICLE										
	#2 PEDESTRIAN										
	#4 PEDESTRIAN										
	#6 PEDESTRIAN										
	#8 PEDESTRIAN										
	#2 P.P.B.										
	#4 P.P.B.										
	#6 P.P.B.										
	#8 P.P.B.										
	P.P.B. COMMON										
	SPARES										
	TOTAL #14										
	#12 I.I.S.N.S.										
	#10 SIGNAL COMMON										
	#8 LUMINAIRE										
	#6 SERVICE										
	#1 DETECTOR										
	#2 DETECTOR										
	#4 DETECTOR										
	#5 DETECTOR										
	#6 DETECTOR										
	#8 DETECTOR										
	TOTAL D.L.C.										
	INTERCONNECT CABLE (S.I.C.)										
	CONDUIT SIZE	2"	2"	2"	2 1/2"	3"	2-3"	3"	2 1/2"	2 1/2"	2"

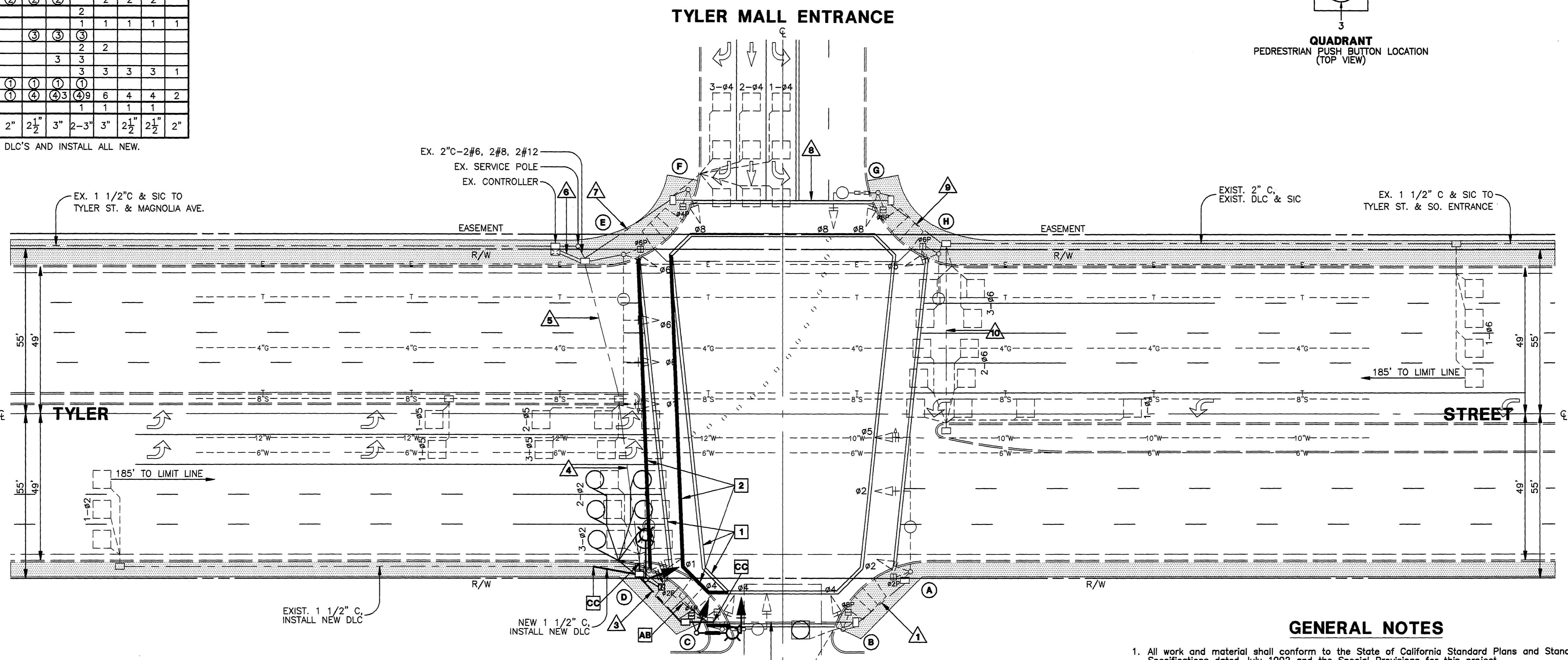
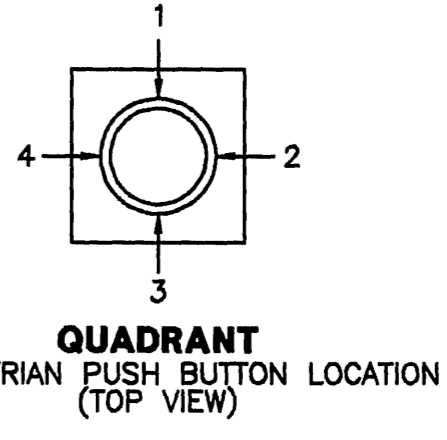
⊗ = REMOVE EXISTING CONDUCTORS AND DLC'S AND INSTALL ALL NEW.



POLE AND EQUIPMENT SCHEDULE

POLE NO.	DESCRIPTION	SIGNAL STANDARD			SIGNAL MOUNTING			PED PUSH BUTTONS		HPSV	I.I.S.N.S.	REMARKS
		POLE HEIGHT	SIGNAL MAST ARM	LUMINAIRE MAST ARM	MAST ARM VEHICLE	POLE VEHICLE	POLE PEDESTRIAN	Ø	QUAD			
(A)	26A-4-80	35'	45'	15'	2-MAS	SV-1-T	SP-1-T	8	4	400W	-	
(B)	1-A	10'	-	-	-	TV-1-T	SP-1-T	2	1	-	-	
(C)	17A-3-80	35'	15'	12'	MAS	SV-1-T	SP-1-T	2	1	400W	Tyler St	REMOVE AND SALVAGE EXISTING POLE REINSTALL ON NEW FOUNDATION AS SHOWN
(D)	TYPE 30	35'	-	15'	-	SV-1-T	SP-1-T	4	2	400W	-	REMOVE AND SALVAGE EXISTING POLE REINSTALL ON NEW FOUNDATION AS SHOWN
(E)	29A-5-80	35'	45'	15'	3-MAS	SV-1-T	SP-1-T	4	2	400W	-	
(F)	1-A	10'	-	-	-	TV-1-T	SP-1-T	6	3	-	-	
(G)	17A-3-80	35'	15'	12'	MAS	SV-1-T	SP-1-T	6	3	400W	Tyler St	
(H)	TYPE 30	35'	-	15'	-	SV-1-T	SP-1-T	8	4	400W	-	

EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

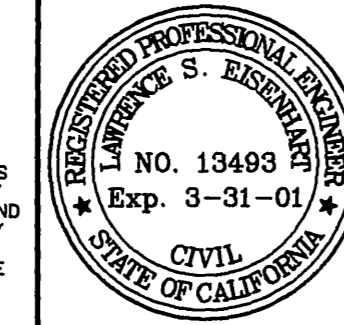


- ### CONSTRUCTION NOTES
- Remove existing crosswalk stripe by wet sandblasting.
 - Install thermoplastic crosswalk stripe per City Standard.
 - Abandon existing ø2 and ø8 loop detectors. Install new TYPE E loop detectors for ø2 and ø8. (9 each).
 - Replace existing pull boxes on N/W corner with new #6 pull boxes.

- ### GENERAL NOTES
- All work and material shall conform to the State of California Standard Plans and Standard Specifications dated July 1992 and the Special Provisions for this project.
 - This plan accurate for traffic signal work only.
 - This Traffic Signal Work requires a "Street Opening Permit" obtained at the Public Works Department counter on the third floor of City Hall.
 - Contact Traffic Signal Maintenance (900-351-6090) 48 hours in advance to schedule inspection of the work performed. Inspection for Traffic Signal Work shall be at the rate of \$55.00 per hour.
 - All equipment and loop locations shall be approved by the City Traffic Engineer or his Inspector prior to installation by the Contractor.
 - The Traffic Engineer shall approve pole locations prior to installation by Contractor.
 - Construction work that will cause damage to the detector loop(s) shall not be performed until Traffic Signal Maintenance personnel have been notified (909-351-6090) and the necessary timing adjustments made to maintain signal operations.
 - All detector loops shall be installed in the presence of the City Traffic Engineer's Inspector.
 - Call UNDERGROUND SERVICE ALERT (USA) 1-800-227-2600 at least 2 working days prior to excavation.
 - 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.

IMPORTANT NOTICE:
Section 4139.6(d)(7) of the Government Code requires a Dig Alert Identification Number to be issued before a "Thank to Excavator" will be valid.
For your Dig Alert I.D. Number call:
CALL TOLL FREE
TWO WORKING DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600

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.



ENGINEER IN RESPONSIBLE CHARGE:
Lawrence S. Eisenhart
LAWRENCE S. EISENHART RCE NO. 13493
EXPIRATION DATE: 3-31-01 DATE: 2/1/00

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

SCALE: AS SHOWN
DATE: JUNE 2000

MARK	REVISIONS	APPR. DATE
DESIGNED BY: L.S.E.	DRAWN BY: L.S.E.	CHECKED BY:

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY:	BY:	DATE:	APPROVED BY:
PRINCIPLE ENGINEER			<i>Richard M. Smith</i>
P.W. INSPECTOR			DIRECTOR OF PUBLIC WORKS
TRAFFIC DIVISION		9/15/00	
CHIEF P.W. ENGINEER	TJS	9/15/00	

DATE: 9-20-2000

TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET
and
MALL NORTH ENTRANCE

SCALE: 1"=20'

PROJECT NO: **X-317A**
SHEET **1** OF **1**
FILE NAME: X317A.DWG

CONDUCTOR SCHEDULE										
AWG	CONDUCTOR	CONDUIT RUN								
		1	2	3	4	5	6	7	8	9
#14	#1									
	#2	3	3	3	3	3	3			
	#3									
	#4	3	3	3	3	3	3			
	#5	3	3	3	3	3	6	3	3	3
	#6									
	#7									
	#8									
	#2PED	2	2	2	2	2	2	3	3	
	#4PED									
	#6PED									
	#8PED	2	2	2	2	4	2	2	2	
	#2PPB	1	2	2	2	2				
	#4PPB									
	#6PPB									
	#8PPB	1	1	1	1	1	2	1	1	1
	PPB COMMON	1	1	1	1	1	2	1	1	1
	SPARE	3	3	3	3	3	6	3	3	3
	TOTAL #14	13	19	22	26	26	54	19	16	10
#12	I.S.N.S.	(2)	(2)	2	2	2	2	2	2	
#10	SIGNAL COMMON	1	1	1	1	1	2	1	1	1
#8	LUMINAIRE	2	2	2	2	2	2	2	2	2
#6	SERVICE						2			

CONDUCTOR SCHEDULE (CONT.)										
AWG	CONDUCTOR	CONDUIT RUN								
		1	2	3	4	5	6	7	8	9
DLC	#1									
	#2									
	#3									
	#4									
	#5									
	#6									
	#7									
	#8									
	TOTAL DLC									
	INTERCONNECT CABLE (I.C.)									
	CONDUIT SIZE	2"	2"	2"	2 1/2"	3"	2-3"	3"	2 1/2"	2"

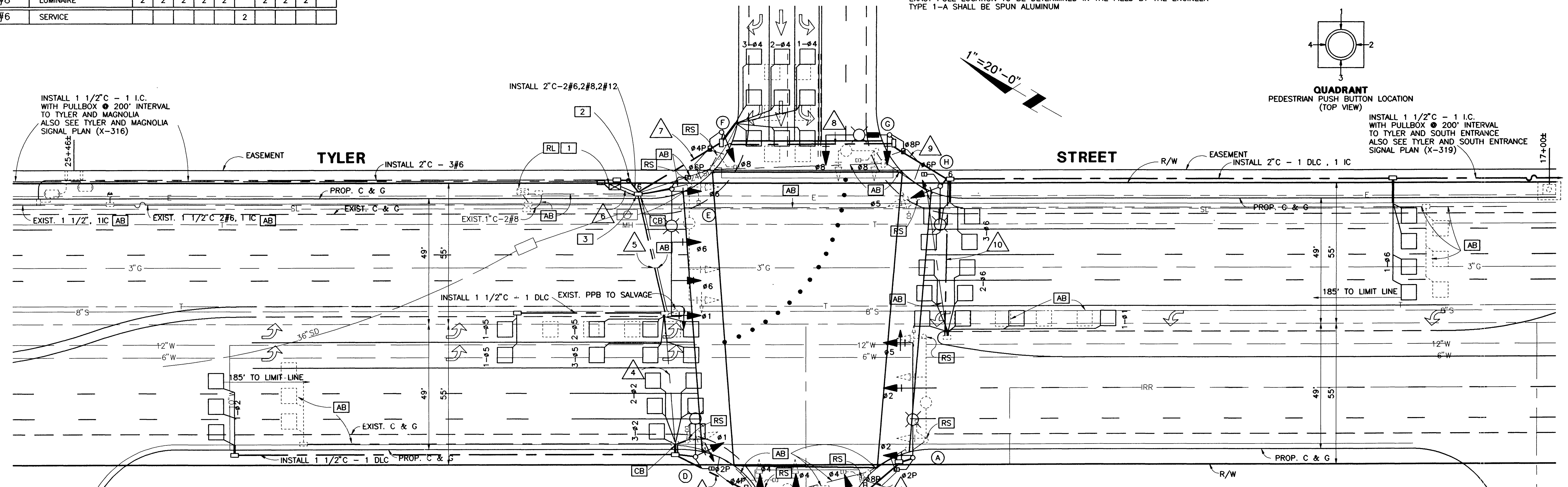
INSTALL ALL NEW CONDUCTORS AND CONDUITS UNLESS OTHERWISE NOTED
(E) = EXISTING

(X) INSTALL FOR FUTURE USE

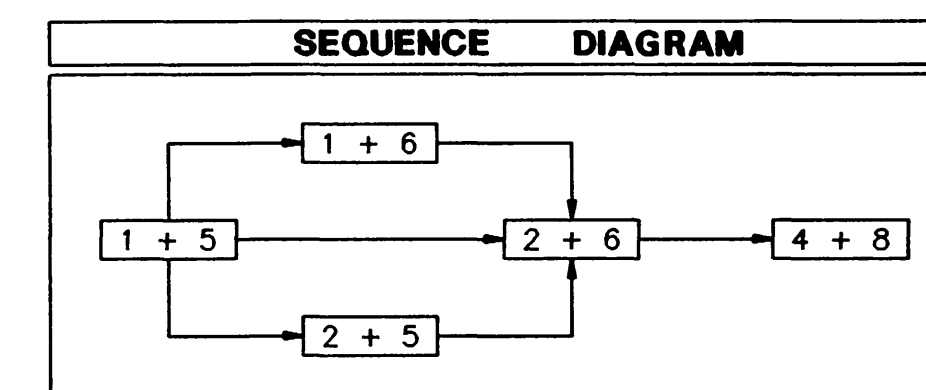
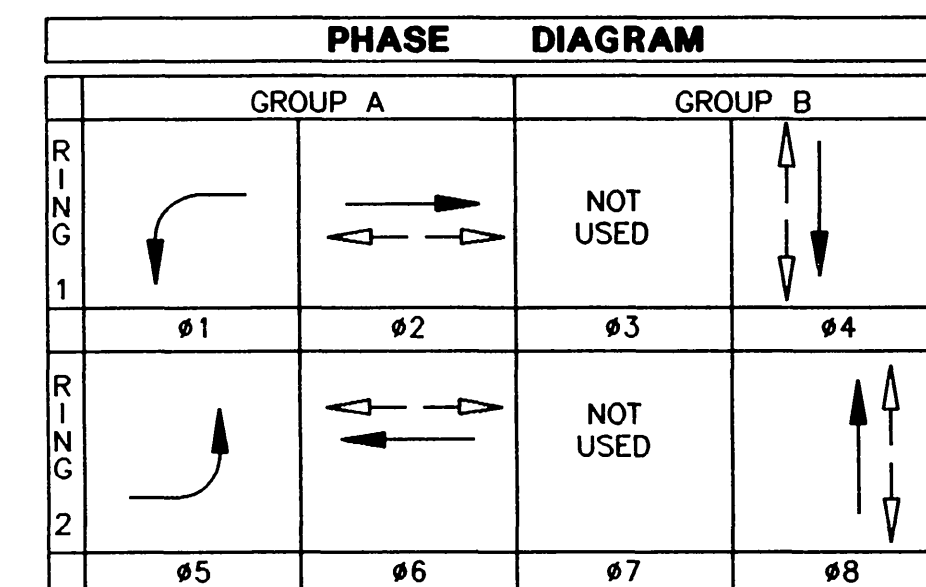
POLE SCHEDULE											
NO.	POLE	HEIGHT	MAST ARM LENGTH		SIGNAL MOUNTING			PPB	H.P.S.	I.S.N.S.	REMARKS
			SIGNAL	LUMINAIRE	MA	POLE	PED				
(A)	26A-4-80	35'	45'	15'	2-MAS	SV-1-T	SP-1-T	Ø8	4	400 W.	INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(B)	1-A	10'				TV-1-T	SP-1-T	Ø2	1		INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(C)	17A-3-80	35'	15'	12'	MAS	SV-1-T	SP-1-T	Ø2	1	400 W.	TYLER ST INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(D)	TYPE 30	35'		15'		SV-1-T	SP-1-T	Ø4	2	400 W.	INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(E)	29A-5-80	35'	45'	15'	3-MAS	SV-1-T	SP-1-T	Ø4	2	400 W.	INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(F)	1-A	10'				TV-1-T	SP-1-T	Ø6	3		INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(G)	17A-3-80	35'	15'	12'	MAS	SV-1-T	SP-1-T	Ø6	3	400 W.	TYLER ST INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT
(H)	TYPE 30	35'		15'		SV-1-T	SP-1-T	Ø8	4	400 W.	INSTALL NEW POLE AND EQUIPMENT, SALVAGE EXIST. POLE AND EQUIPMENT

EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER
TYPE 1-A SHALL BE SPUN ALUMINUM

TYLER MALL ENTRANCE

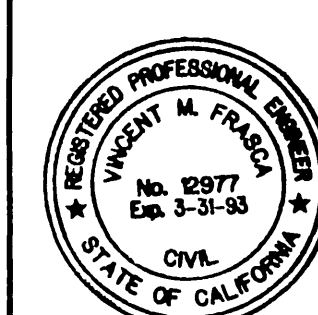


- CONSTRUCTION NOTES:**
- RELOCATE EXISTING TYPE 90 CONTROLLER AND INSTALL NEW TYPE "P" CABINET. REMOVE AND SALVAGE EXISTING TYPE "R-1" CABINET. ADD DETECTOR UNITS, LOAD SWITCHES AND ADDITIONAL CABINET EQUIPMENT NEEDED. (SEE SPECIAL PROVISIONS)
 - INSTALL NEW 120V SIGN, 120V SIGNAL AND 240V LUMINAIRE TYPE 1-A SERVICE POLE PER CITY STANDARD DWG. # 667
 - REPLACE EXISTING PULL BOX WITH NEW #6 PULL BOX



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.



PREPARED UNDER THE DIRECTION OF
James B. Dobbins
REGISTERED CIVIL ENGINEER NO. 12977
EXPIRATION DATE: 3/31/93 DATE:
RECOMMENDED BY:
James B. Dobbins
James B. Dobbins DATE: 12-19-90

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
MUNICIPAL ENGINEERING DIVISION
3426 TENTH STREET
RIVERSIDE, CA 92502
(714) 683-0209 FAX (714) 686-5807
SCALE: 1"=20'-0" BENCH MARK:
DATE: DECEMBER, 90

DESIGNED BY K.T.O. DRAWN BY K.T.O./RDW CHECKED BY *[Signature]*

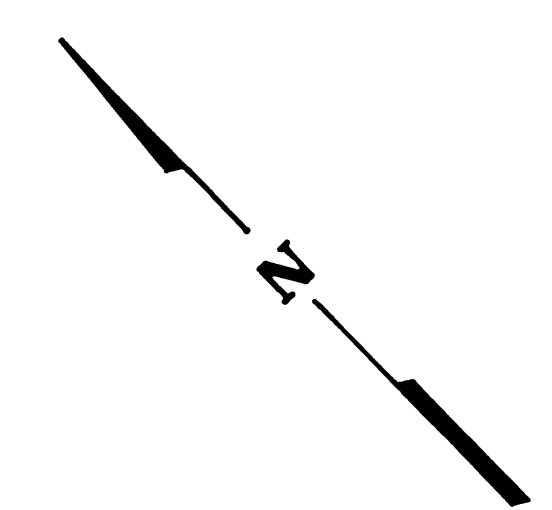
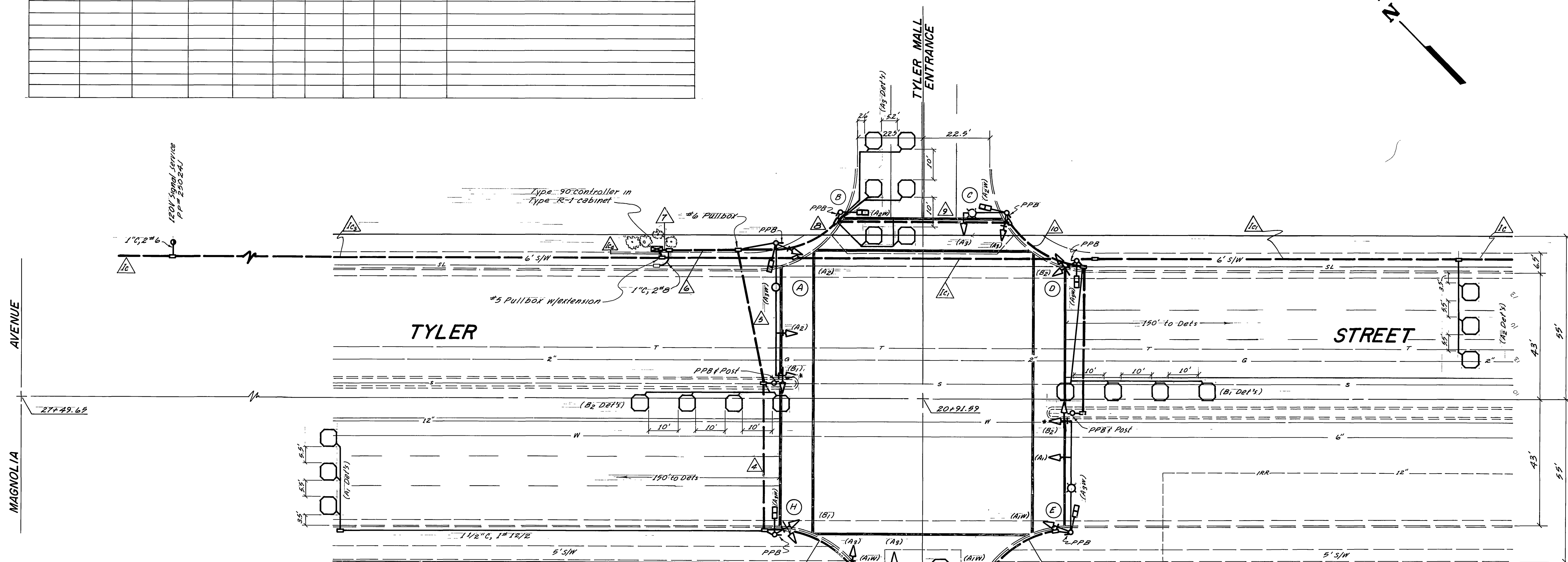
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *[Signature]* BY DATE: 12/20/90
PRINCIPAL ENGINEER
INSPECTION
TRAFFIC DIVISION
CHIEF P.W. ENGINEER
PUBLIC UTILITIES

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET
AND
NORTH ENTRANCE
HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO.
X-317
SHEET 1 OF 1
FILE NO:
8911175

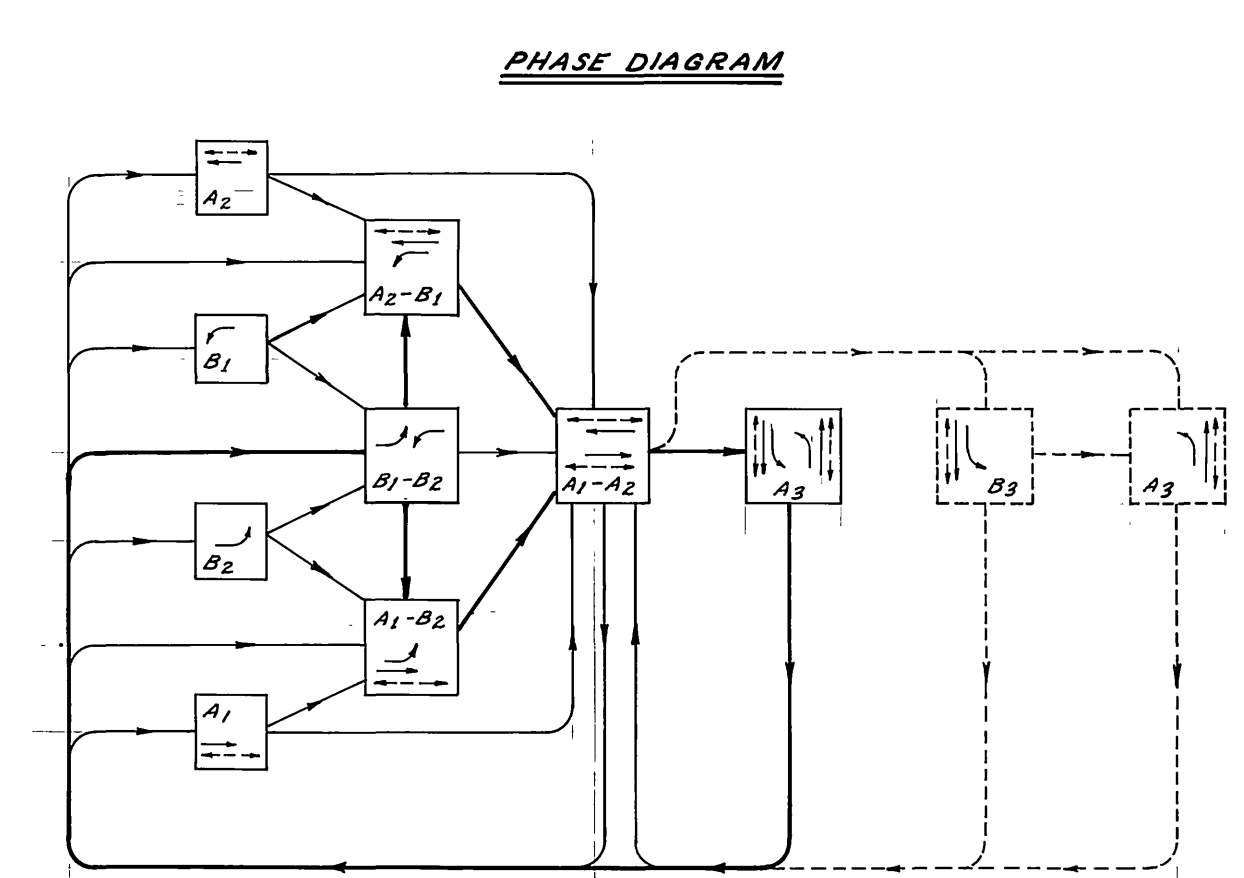
EQUIPMENT SCHEDULE

Location	Standard	Vehicle Equipment				Ped. Equipment			Luminaire	Remarks
		Heads	Mfg.	Size Plate	Lou.	Heads	Mfg.	RPB		
A	Type XXI	1W3C(8")	B-1	1		1W2C	W-0	1	400W	
	45 Signal/MA	1W3C(12")	M-2	1						
		1W3C*(12")	M-2	1						
B	Type I	1W3C(8")	B-1	1		1W2C	W-1	1		
C	6.8/10015	1W3C(8")	B-1	1		1W2C	W-0	1	400W	
		1W3C(12")	M-2	1						
D	Type I	1W3C(8"/12")	A-1	1		1W2C	W-0	1		
E	Type XXI	1W3C(8")	B-1	1		1W2C	W-0	1	400W	
	40 Signal/MA	1W3C(12")	M-2	1						
		1W3C*(12")	M-2	1						
F	Type I	1W3C(8")	B-1	1		1W2C	W-1	1		
G	6.8/10015	1W3C(8")	B-1	1		1W2C	W-0	1	400W	
		1W3C(12")	M-2	1						
H	Type I	1W3C(8"/12")	A-1	1		1W2C	W-0	1		



CONDUIT SCHEDULE

Control Function	Conductors Size Insulation	Conduit Run														
		1	2	3	4	5	6	7	8	9	10	11	1c	1c	1c3	1c4
Vehicle Heads	#14 T.W.	3	3	3	3	3	3	3								
ØA1																
ØA2																
ØA3																
ØB1																
ØB2																
ØA3 (future ØB3)																
Pedestrian Heads																
ØA1W			2	2	2	2	2	2								
ØA2W																
ØA3W			2	2	2	2	2	4	2	2	2					
ØA3W (future ØB3)																
Ped. Push Button																
ØA1W			1	2	2	2	2	2								
ØA2W																
ØA3W			1	1	1	1	3	3	2	2	2	1				
ØA3W (future ØB3)																
Detector Cable	#12 U.S.E. or UK															
ØA1						1	1	1	1							
ØA2																
ØB1			1	1	1	1	1	1	1	1	1					
ØB2																
ØA3 (future ØB3)																
Spares	#14 T.W.	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
12V Common	#12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
120V Common	#10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Signal Service	#6															
Luminaire	#8															
Interconnect	#14 P.E.															
Totals	#14	12	15	19	25	26	44	44	17	16	10	4	1	1	1	1
	#12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	#10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	#8	2	2	2	2	2	2	2	2	2	2	2				
	#6															
Conduit Size		2"	2"	2"	2 1/2"	3"	3"	2 1/2"	2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"



ØA1, ØA2 - Type DP module
 ØA3 - Type SP module
 ØB1, ØB2 - Type S module

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		TRAFFIC SIGNALS TYLER STREET 658' S'LY OF MAGNOLIA AVENUE (TYLER MALL NORTH ACCESS)		ACCOUNT No. DRAWING NUMBER X-317
APPROVED BY PRINCIPAL ENGINEER As Built per Contract TE-70-B	BY DATE JMW 7/27/71	APPROVED BY DIRECTOR OF PUBLIC WORKS	DATE	SHEET OF
MARK DESIGNED BY	REVISIONS DRAWN BY JMW CHECKED BY	CHIEF PUB. WKS. ENGR.	DATE	SCALE: 1"=20'