CONDUCTOR SCHEDULE

AWG	CONDUCTOR	1	2	3	4	5	6	7	8	9	10	11	12	13
#14	ø1	3	3	3	3	3	3	3	6	3	3	3	3	
	ø2							3	6	3	3	3	3	
	ø3		3	3	3	3	3	3	3					
	ø4		3	3	3	3	3	3	6	3	3	3		
	ø5					3	3	3	3					
	ø6	3	3	3	3	3	3	3	3					
	ø7								3	3	3	3		
	ø8				3	3	3	3	6	3				
	ø1				2	2	2	2	4	2				
	ø3							2	4	2	2	2	2	
	ø5		2	2	2	2	2	2	4	2	2	2		
	ø2PED							2	4	2	2	2	2	
	ø4PED		2	2	2	2	2	2	4	2	2	2		
	ø6PED	2	2	2	2	2	2	2						
	ø8PED				2	2	2	2	4	2				
	ø2PPB								2	2	1	1		
	ø4PPB	1	1	1	1	1	1	1	2	1	1	1	1	
	ø6PPB		1	1	2	2	2	2	2					
	ø6 BIKE PB					1	1	1	1					
	ø8PPB					1	1	2	2					
	PPB COMMON	1	1	1	1	1	1	1	2	1	1	1	1	
	SPARE	3	3	3	3	3	3	3	6	3	3	3	3	
	TOTAL #14	13	24	24	32	37	37	45	77	34	26	26	13	
#12	I.S.N.S.	2	2	2	2	2	2	2		2	2	2		
#10	SIGNAL COMMOM	1	1	1	1	1	1	1	2	1	1	1	1	
#8	LUMINAIRE	2	2	2	2	2	2	2		2	2	2	2	
#6	SERVICE								2					
DLC	ø1						3	3	3					
	ø2								5	5	5	5	5	
	ø2 BIKE								1	1	1	1	1	
	ø3								3	3	3			
	ø4		5	5	5	5	5	5	5					
	ø5								3	3	3	3	3	3
	ø6					4	4	4	4					
	ø7			3	3	3	3	3	3					
	ø8								5	5	1			
	TOTAL DLC		5	8	8	12	15	15	32	17	13	9	9	3
INTERCONNECT CABLE (I.C.)			1	1	1	1	1	1	3	2	1	1	1	
CONDUIT SIZE		2"	3"	3"	3"	3½"	2-3"	2-3"	3-3½"	2-3"	3½"	3"	3"	2"

ALL NEW CONDUCTORS AND CONDUITS

CONSTRUCTION NOTES:

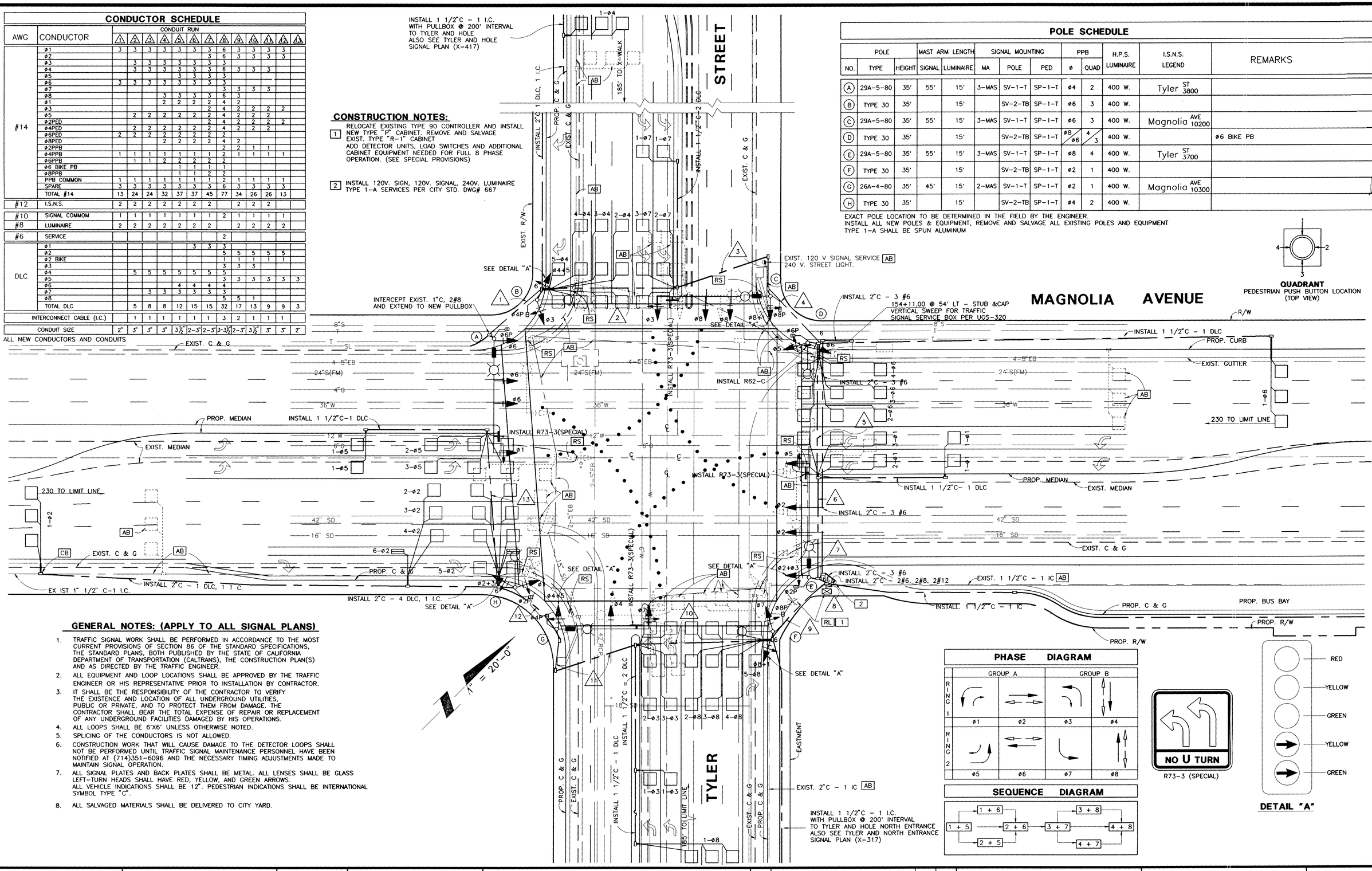
1. RELOCATE EXISTING TYPE 90 CONTROLLER AND INSTALL NEW TYPE "P" CABINET. REMOVE AND SALVAGE EXIST. TYPE "R-1" CABINET
   ADD DETECTOR UNITS, LOAD SWITCHES AND ADDITIONAL CABINET EQUIPMENT NEEDED FOR FULL 8 PHASE OPERATION. (SEE SPECIAL PROVISIONS)

2. INSTALL 120V. SIGN, 120V. SIGNAL, 240V. LUMINAIRE TYPE 1-A SERVICES PER CITY STD. DWG# 667

POLE SCHEDULE

	POLE		MAST ARM LENGTH		SIGNAL MOUNTING			PPB		H.P.S.	I.S.N.S.	
NO.	TYPE	HEIGHT	SIGNAL	LUMINAIRE	MA	POLE	PED	ø	QUAD	LUMINAIRE	LEGEND	REMARKS
A	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	ø4	2	400 W.	Tyler ST 3800	
B	TYPE 30	35'		15'		SV-2-TB	SP-1-T	ø6	3	400 W.		
C	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	ø6	3	400 W.	Magnolia AVE 10200	
D	TYPE 30	35'		15'		SV-2-TB	SP-1-T	ø8 / ø6	4 / 3	400 W.		ø6 BIKE PB
E	29A-5-80	35'	55'	15'	3-MAS	SV-1-T	SP-1-T	ø8	4	400 W.	Tyler ST 3700	
F	TYPE 30	35'		15'		SV-2-TB	SP-1-T	ø2	1	400 W.		
G	26A-4-80	35'	45'	15'	2-MAS	SV-1-T	SP-1-T	ø2	1	400 W.	Magnolia AVE 10300	
H	TYPE 30	35'		15'		SV-2-TB	SP-1-T	ø4	2	400 W.		

EXACT POLE LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
INSTALL ALL NEW POLES & EQUIPMENT, REMOVE AND SALVAGE ALL EXISTING POLES AND EQUIPMENT
TYPE 1-A SHALL BE SPUN ALUMINUM



QUADRANT
PEDESTRIAN PUSH BUTTON LOCATION (TOP VIEW)

GENERAL NOTES: (APPLY TO ALL SIGNAL PLANS)

1. TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MOST CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS, THE STANDARD PLANS, BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S) AND AS DIRECTED BY THE TRAFFIC ENGINEER.
2. ALL EQUIPMENT AND LOOP LOCATIONS SHALL BE APPROVED BY THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE PRIOR TO INSTALLATION BY CONTRACTOR.
3. 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 FACILITIES DAMAGED BY HIS OPERATIONS.
4. ALL LOOPS SHALL BE 6'X6' UNLESS OTHERWISE NOTED.
5. SPLICING OF THE CONDUCTORS IS NOT ALLOWED.
6. CONSTRUCTION WORK THAT WILL CAUSE DAMAGE TO THE DETECTOR LOOPS SHALL NOT BE PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AT (714)351-6096 AND THE NECESSARY TIMING ADJUSTMENTS MADE TO MAINTAIN SIGNAL OPERATION.
7. ALL SIGNAL PLATES AND BACK PLATES SHALL BE METAL. ALL LENSES SHALL BE GLASS LEFT-TURN HEADS SHALL HAVE RED, YELLOW, AND GREEN ARROWS. ALL VEHICLE INDICATIONS SHALL BE 12". PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL TYPE "C".
8. ALL SALVAGED MATERIALS SHALL BE DELIVERED TO CITY YARD.

PHASE DIAGRAM

SEQUENCE DIAGRAM

R73-3 (SPECIAL)

DETAIL "A"

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.

REGISTERED PROFESSIONAL ENGINEER VINCENT M. FRASCA No. 12977 Exp. 3-31-93 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
REGISTERED CIVIL ENGINEER NO: 12977
EXPIRATION DATE: 3/31/93 DATE:

RECOMMENDED BY:
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"
DATE: DECEMBER, 90
BENCH MARK:

MARK	REVISIONS	APPR.	DATE

DESIGNED BY K.T.O. DRAWN BY KTO/RDW CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
INSPECTION		
TRAFFIC DIVISION		
CHIEF P.W. ENGINEER		
PUBLIC UTILITIES		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/20/90

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET AND MAGNOLIA AVENUE

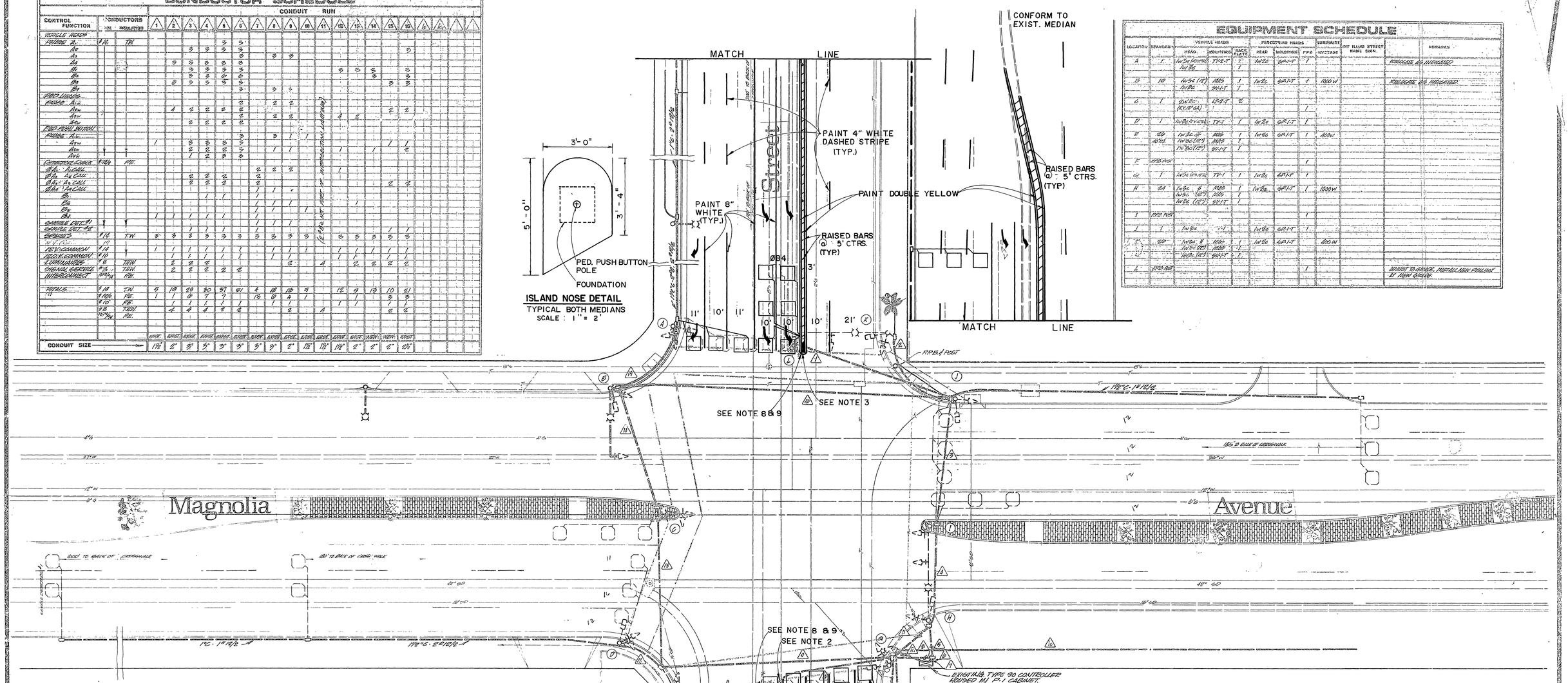
HORIZ SCALE: 1" VERT. SCALE: 1"

PROJECT NO.
X-316
SHEET 1 OF 1
FILE NO: 8911175

CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	CONDUCTORS INSULATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	A	C	
VEHICLE HEADS																					
PHASE A1	#14	THW					3	3													
A2					3	3	3	3										3			
A3								3		3	3										
A4				3	3	3	3	3													
B1					3	3	3	3						4	3	3		3			
B2					3	3	6	6								3		3			
B3				6	3	3	3	3									3	3			
B4								3		3	3										
PED HEADS																					
PHASE A1W								2		2	2										
A2W				4	2	2	2	2									2	2			
A3W								2		2	2			4	2						
A4W					2	2	2	2													
PED PUSH BUTTON																					
PHASE A1W							3			3	1	1									
A2W				1	3	3	3	3									1	1			
A3W					2	2	2	3		1	1			1		1		2			
A4W					1	2	3	3													
CONDUCTOR CABLE	#14/6	PE.																			
@A1 A1 CALL							2	2		2	2			1							
@A2 A2 CALL					2	2	2			2											
@A3 A3 CALL					2	2	2			2							2	2			
@A4 A4 CALL										1	1										
B1						1				1		1									
B2										1	1	1			1						
B3										1	1	1									
B4				1	1	1	1	1		1	1										
SAMPLE DET #1										1	1										
SAMPLE DET #2					1	1	1			1							1	1			
SPARES	#14	T.W.	3	3	3	3	3	3	3	3	3	3		3	3	3	3	3			
X-WALK																					
REV. COMMON	#14		1	1	1	1	1	1		1	1	1		1	1	1	1	1			
REV. COMMON	#10			1	1	1	1	1		1	1			1	1		1	1			
LUMINAIRES	#8	THW		2	2	2					2		A		2	2	2	2			
SIGNAL SERVICE	#3	THW		2	2	2	2	2													
INTERCONNECT	18 PR	PE.																			
TOTALS	#14	THW	9	19	29	30	37	41	4	18	19	6		12	9	13	10	21			
"	#12/6	PE.	1	1	2	1	1		19	2	2	1			2		2	2			
	#10	PE.		1	1	1	1	1		1				1	1		1	1			
	#8	THW		4	4	4	2	2			2		A				2	2			
	18 PR	PE.																			
			UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	UPR.	NEW	NEW	UPR.			
CONDUIT SIZE			1½"	2"	2½"	2½"	2½"	3"	3"	2½"	2"	1½"	1½"	1½"	2"	2"	2"	2½"			

CONDUIT RUN

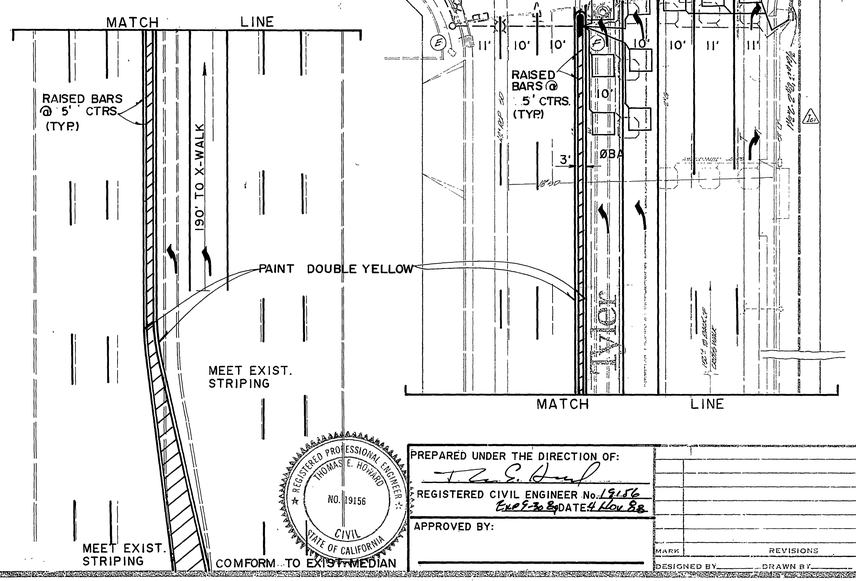


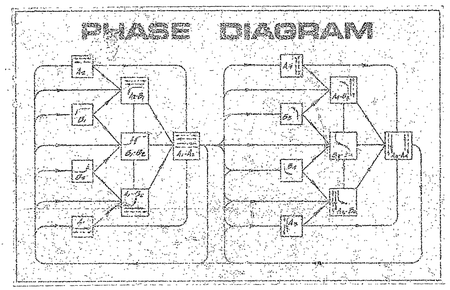
EQUIPMENT SCHEDULE

LOCATION	STANDARD	VEHICLE HEADS HEAD	VEHICLE HEADS MOUNTING	VEHICLE HEADS BACK PLATE	PEDESTRIAN HEADS HEAD	PEDESTRIAN HEADS MOUNTING	PPB	LUMINAIRE WATTAGE	CITY ISLAND STREET NAME SIGN.		REMARKS
A	1	1w3s (Ped) 1w3s	TY-1-T	1 1	1w2s	SP1-T	1				ROLLCARE AS INDICATED
B	10	4w3s (12) 1w3s	MAS 9M-1-T	1 1	1w2s	SP1-T	1	1000 W			ROLLCARE AS INDICATED
C	1	2w3s (R) (R-12" Ped)	TT-2-T	2			1				
D	1	1w3s (R w/ Ped)	TY-1	1	1w2s	SP1-T	1				
E	20	1w3s (R)	MAS	1	1w2s	SP1-T	1	400 W			
	10 Yrs	1w3s (12") 1w3s (12")	MAS 9M-1-T	1 1							
F	PPB POST						1				
G	1	1w3s (w/ Ped)	TY-1	1	1w2s	SP1-T	1				
H	21	1w3s & 1w3s (12") 1w3s (12")	MAS MAS 9M-1-T	1 1 1	1w2s	SP1-T	1	1000 W			
I	PPB POST						1				
J	1	1w3s	TY-1		1w2s	SP1-T	1				
K	20	1w3s & 1w3s (12") 1w3s (12")	MAS MAS 9M-1-T	1 1 1	1w2s	SP1-T	1	400 W			
L	PPB POST						1				ADJUST TO GRADE, INSTALL NEW FOUNDATION AT NEW GRADE.

MODIFICATION NOTES:

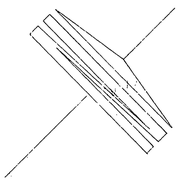
1. INSTALL ALL NEW DETECTION ON NORTHBOUND AND SOUTHBOUND TYLER APPROACHES.
2. EXTEND EXISTING DETECTOR RUN FOR NORTHBOUND LEFT TURN LANE TO NEW PULLBOX IN NEW MEDIAN. PULL OUT EXISTING CABLE, SPLICE CONDUIT AND PULL NEW CABLE FROM POLE (G) PULLBOX TO MEDIAN PULLBOX (No. 5)
3. INTERCEPT EXISTING DETECTOR RUN WITH No. 5 PULLBOX IN NEW MEDIAN NOSE FOR SOUTHBOUND LEFT TURN LANE DETECTION.
4. LOOP LOCATIONS TO BE APPROVED BY ENGINEER PRIOR TO SAW CUTTING.
5. PAINT NEW STRIPING AND ARROWS AS SHOWN.
6. REMOVE ALL CONFLICTING MARKINGS BY SANDBLASTING OR OTHER METHODS AS APPROVED BY ENGINEER.
7. ALL TRAFFIC SIGNAL EQUIPMENT AND INSTALLATION EXISTING TO REMAIN EXCEPT FOR MODIFICATION TO TYLER STREET DETECTION.
8. MODIFY RAISED ISLAND AS SHOWN WITH NEW REMOVE EXISTING ISLAND WITHIN MEDIAN CONSTRUCTION LIMITS. REPLACE
9. INSTALL NEW PUSH BUTTON POLE AND EQUIPMENT IN NORTH MEDIAN ISLAND AS SHOWN RELOCATE POLE AND EQUIPMENT FOR SOUTH MEDIAN ISLAND.
10. NEW MEDIAN ISLANDS AS SHOWN IN "ISLAND NOSE DETAIL" SHALL BE PORTLAND CEMENT CONCRETE PLACED MONOLITHIC ON THE EXISTING PAVEMENT SURFACE AND SECURED IN PLACE WITH DOWELS.
11. INSTALL RAISED BARS IN A HARRING BONE PATTERN





FLASHING INDICATION: Ø's A1 & A2 - YELLOW; ALL OTHER Ø's - RED.

PHASE A1 - A2 - A3 - A4 - TYPE DP MODULE
PHASE B1 - B2 - B3 - B4 - TYPE 6 MODULE



REGISTERED PROFESSIONAL ENGINEER THOMAS E. HOWARD NO. 19156 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER No. 19156
EXP. 7-30-89 DATE 4 Nov 88

APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING/PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502
(714)686-0844 FAX 714-686-5954

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY		
PRINCIPAL ENGINEER		11-10-88
PARK DEPARTMENT		
TRAFFIC DIVISION		11-10-88
CHIEF P. W. ENGINEER		11-10
PUBLIC UTILITIES		

MARK REVISIONS APPR DATE

DESIGNED BY ___ DRAWN BY ___ CHECKED BY ___ 11/14/88

APPROVED BY: Barry Red
PUBLIC WORKS DIRECTOR
DATE: 11/14/88

SIGNAL AND MEDIAN MODIFICATION PLAN

NOV 02 1988

J.F. Davidson Associates, Inc.
ACCOUNT NO. 90-576-245-07

TRAFFIC SIGNALS

Magnolia Avenue at Tyler Street

HORIZ. SCALE: 1" - 20' VERT. SCALE: 1" - —

X-316 A

SHEET 1 OF 1

FILE NO.

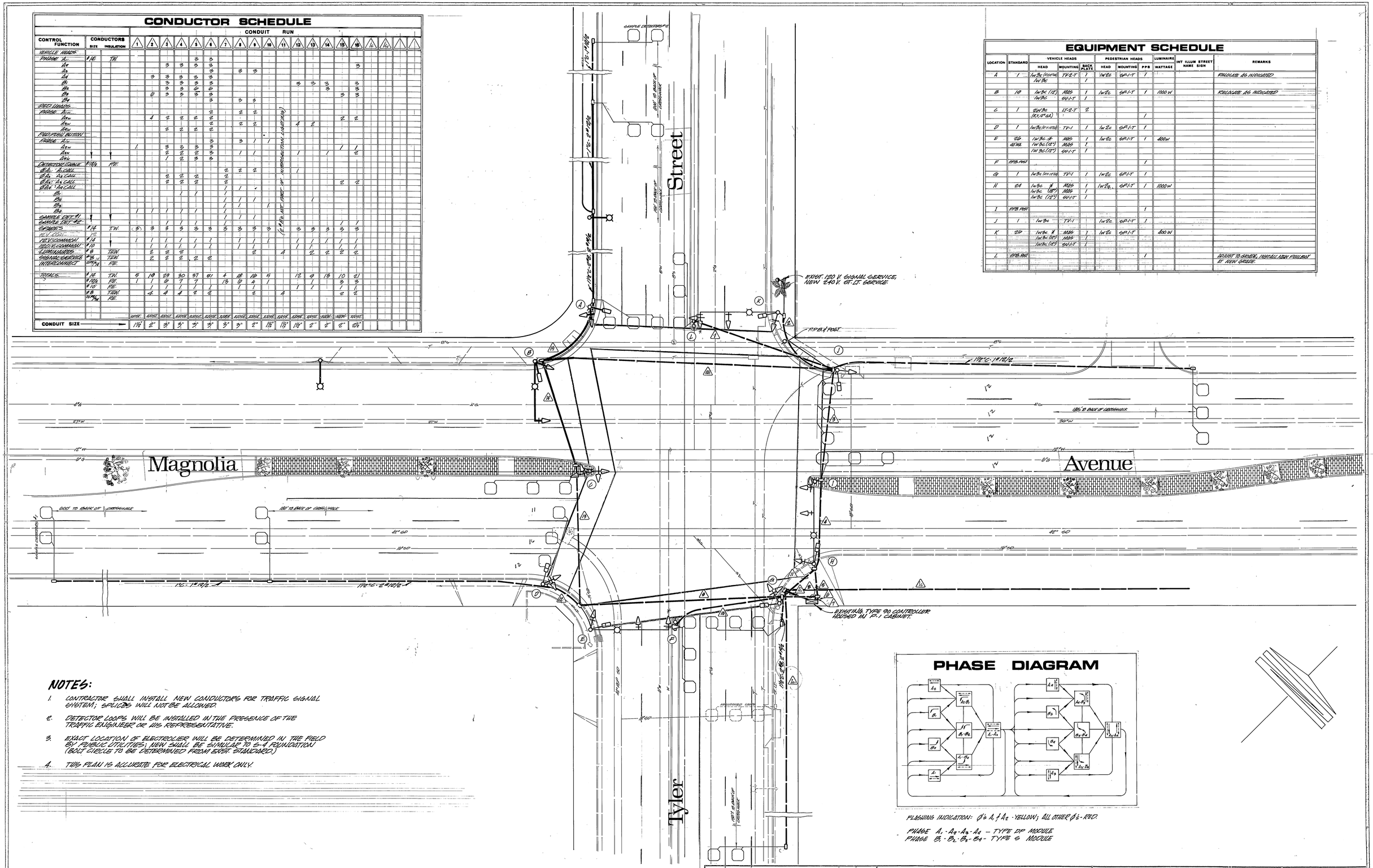
FILE WITH 5-75

CONDUCTOR SCHEDULE

CONTROL FUNCTION	CONDUCTORS SIZE	CONDUCTORS INSULATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
VEHICLE HEADS																						
PHASE A_1	#10	THW					3	3														
A_2					3	3	3	3										3				
A_3								3		3	3											
A_4				3	3	3	3	3														
B_1					3	3	3	3						3	3	3		3				
B_2					3	3	3	6								3		3				
B_3				0	3	3	3	3									3	3				
B_4								3		3	3											
PEDS HEADS																						
PHASE A_{1N}								2		2	2											
A_{2N}				4	2	2	2	2										2	2			
A_{3N}								2		2	2			4	2							
A_{4N}					2	2	2	2														
PEDESTRIAN BUTTON																						
PHASE A_{1P}							3			3	1	1										
A_{2P}			1		3	3	3	3										1	1			
A_{3P}					2	2	2	3		1	1			1		1			2			
A_{4P}					1	2	3	3														
DETECTOR CABLE	#14	PE																				
@ A_1: A_1 CALL									2	2	2			1								
@ A_2: A_2 CALL					2	2	2		2													
@ A_3: A_3 CALL					2	2	2		2									2	2			
@ A_4: A_4 CALL									1	1	1											
B_1						1	1		1													
B_2									1	1	1				1							
B_3									1	1		1										
B_4			1	1	1	1	1		1													
SAMPLE DET #1									1	1	1											
SAMPLE DET #2					1	1	1											1	1			
SPARES	#14	T.W.	3	3	3	3	3	3	3	3	3	3		3	3	3	3	3	3			
SPARE CONDUCTOR	#10																					
TO ICCOMMUNICATION	#14		1	1	1	1	1	1		1	1	1		1	1	1		1	1			
TO ICCOMMUNICATION	#10			1	1	1	1	1		1	1	1		1	1	1		1	1			
LUMINAIRES	#8	THW		2	2	2					2		A		2	2	2	2	2			
SIGNAL SERVICE	#8	THW		2	2	2	2	2														
INTERCONNECT	19 PR #14	PE																				
TOTALS	#14	THW	5	10	20	30	37	61	4	18	10	6		12	9	13	10	21				
	#10	PE	1	1	0	7	7	1	13	0	4	1			1		3	3				
	#10	PE		1	1	1	1	1		1	1			1	1		1	1				
	#8	THW		4	4	4	2	2			2		A				2	2				
	19 PR #14	PE																				
			EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	EXIST.	NEW.	NEW.	EXIST.				
CONDUIT SIZE →			1½"	2"	2"	2"	2"	2"	2"	2"	2"	1½"	1½"	1½"	2"	2"	2"	2½"				

EQUIPMENT SCHEDULE

LOCATION	STANDARD	VEHICLE HEADS HEAD	VEHICLE HEADS MOUNTING	VEHICLE HEADS BACK PLATE	PEDESTRIAN HEADS HEAD	PEDESTRIAN HEADS MOUNTING	PEDESTRIAN HEADS PPB	LUMINAIRE WATTAGE	INT. ILLUM STREET NAME SIGN	REMARKS
A	1	1W3c (COLOR)	TV-2-T	1	1W2c	6A-1-T	1			RELOCATE AS INDICATED
		1W3c		1						
B	10	1W3c (12")	MAS	1	1W2c	6A-1-T	1	1000 W		RELOCATE AS INDICATED
		1W3c	SM-1-T	1						
C	1	2W3c (KY, 12" GA)	LT-2-T	2						
							1			
D	1	1W3c (KY STYLE)	TV-1	1	1W2c	6A-1-T	1			
E	26	1W3c (12")	MAS	1	1W2c	6A-1-T	1	400 W		
	40 MA	1W3c (12")	MAS	1						
		1W3c (12")	SM-1-T	1						
F	RPB POST						1			
G	1	1W3c (KY STYLE)	TV-1	1	1W2c	6A-1-T	1			
H	26	1W3c (12")	MAS	1	1W2c	6A-1-T	1	1000 W		
		1W3c (12")	MAS	1						
		1W3c (12")	SM-1-T	1						
I	RPB POST						1			
J	1	1W3c	TV-1	1	1W2c	6A-1-T	1			
K	26	1W3c (12")	MAS	1	1W2c	6A-1-T		400 W		
		1W3c (12")	MAS	1						
		1W3c (12")	SM-1-T	1						
L	RPB POST						1			ADJUST TO GRADE, INSTALL NEW PUSHBUTTON AT NEW GRADE.



NOTES:

1. CONTRACTOR SHALL INSTALL NEW CONDUCTORS FOR TRAFFIC SIGNAL SYSTEM; SPLICES WILL NOT BE ALLOWED.
2. DETECTOR LOOPS WILL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
3. EXACT LOCATION OF ELECTROLIER WILL BE DETERMINED IN THE FIELD BY REPUBLIC UTILITIES; NEW SHALL BE SIMILAR TO S-4 FOUNDATION (BOLT CIRCLE TO BE DETERMINED FROM EXIST. STANDARD.)
4. THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

MARK	REVISIONS	APPR.	DATE
	Replaced Damaged Logos 1/18/89	MAL	1-13-89
	ASBUILT N/W CORNER	GPE	4/10/79

DESIGNED BY JM/ML DRAWN BY M CHECKED BY

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY		
PRINCIPAL ENGINEER	TMC	5-17
PARK DEPARTMENT		
TRAFFIC DIVISION	JM	5/3
CHIEF P. W. ENGINEER		5-13
PUBLIC UTILITIES		5-14

APPROVED BY: PUBLIC WORKS DIRECTOR
DATE 5/22/90

TRAFFIC SIGNALS

Magnolia Avenue at Tyler Street

HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = —

ACCOUNT NO. 30-575-249-07

X-316

SHEET 1 OF 1

FILE NO.

FILE WITH 20-79

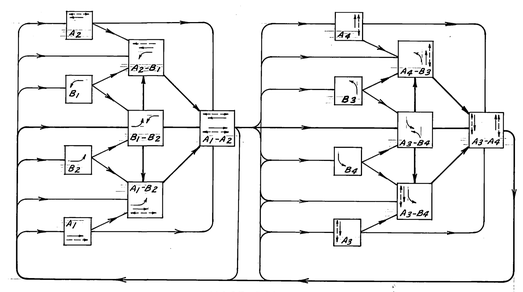
CONDUCTOR SCHEDULE

Control Function	Conductors Size	Conductors Insulation	Conduit Run 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	1c	1c'	
Vehicle Heads	#14	T.W.																				
ØA1							3	3														
ØA2				3	3	3	3	3									3					
ØA3								3		3		3										
ØA4			3	3	3	3	3	3														
ØB1				3	3	3	3	3					3	3	3		3					
ØB2				3	3	3	6	6							3		3					
ØB3			6	3	3	3	3	3								3	3					
ØB4								3		3		3										
Pedestrian Heads																						
ØA1W								2		2		2										
ØA2W			4	2	2	2	2	2								2	2					
ØA3W								2		2		2	4	2	2							
ØA4W					2	2	2	2														
Ped. Push Button																						
ØA1W								3		3		1							1			
ØA2W				3	3	3	3	3								1	1	1				
ØA3W				2	2	2	2	3		1		1	1		1		2					
ØA4W					1	2	3	3														
Detector Cable	#12/2	U.S.E. or U.F.																				
ØA1 + ØA1 Call									2	2		2	1									
ØA2 + ØA2 Call					2	2	2		2													
ØA3 + ØA3 Call				2	2	2	2		2							2	2					
ØA4 + ØA4 Call									1	1											1	
ØB1						1	1		1													
ØB2									1	1		1		1								
ØB3									1	1									1			
ØB4			1	1	1	1	1		1									1				
Sample Det. #1									1	1		1										
Sample Det. #2				1	1	1	1		1							1	1					
Spares	#14	T.W.	3	3	3	3	3	3	3	3		3	3	3	3	3	3					
R.R. Pre-emption								2		2		2		2								
12V Common	#12		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					
Luminaires	#8		2								4	2		2	2		2					
Signal Service					2	2	2	2												1	1	
Interconnect	10PR/#14	P.E.																				
Totals	#14	T.W.	18	25	28	29	36	52	3	19		17	11	10	12	9	20	1	1			
	#12/2	U.S.E. or U.F.	1	4	6	7	7		13	6		4		1		3	3	1	1		1	
	#12	T.W.	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					
	#8		2		2	2	2	2			4	2		2	2		2					
	10PR/#14	P.E.																		1	1	
Conduit Size			2"	3"	3"	3"	3"	3"	3"	3"	1½"	2"	1½"	2"	2"	2"	2½"	1½"	1½"	2"	2"	

Two of the 4 #8 conductors are not a part of intersectional lighting.

EQUIPMENT SCHEDULE

Location	Standard	Vehicle Equipment Head's	Mtg.'s	Back plate	Louver	Ped. Equipment Head's	Mtg.'s	PPB's	Luminaire Wattage	Remarks
A	Type I	1W3C(1½,12"GA)	A-4	1	2	1W2C	W-O	1		
		1W3C		1						
B	Type VII	1W3C	B-1	1		1W2C	W-O	1	1000W	
		1W3C(12")	M-2	1						
C	Type I	1W3C*	A-6					1		
		1W3C(1½,12"GA)		1	2					
D	Type I	1W3C(1½,12"GA)	A-1	1		1W2C	W-O	1		
E	Type XIII	1W3C(12")	B-1	1		1W2C	W-O	1	400W	
	40½ sq. MA.	1W3C(12")	M-2	1						
		1W3C*	M-2	1						
F	PPB & Post									
G	Type I	1W3C(1½,12"GA)	A-1	1		1W2C	W-O	1		
H	Type XIII	1W3C(12")	B-1	1		1W2C	W-O	1	1000W	
		1W3C(12")	M-2	1						
		1W3C*	M-2	1						
I	PPB & Post									
J	Type I	1W3C	A-1			1W2C	W-O	1		
K	Type XIII	1W3C(12")	B-1	1		1W2C	W-O	1	400W	
		1W3C(12")	M-2	1						
		1W3C*	M-2	1						



PHASE DIAGRAM

Flashing Indications: Ø's A_1 & A_2 - Yellow; All other Ø's - Red

$ØA_1$, $ØA_2$, $ØA_3$ & $ØA_4$ — Type DP Module

$ØB_1$, $ØB_2$, $ØB_3$ & $ØB_4$ — Type S Module

MARK	REVISIONS	APPR.	DATE
	As Built per Cont. TE-70-B	GMW	7-20-71

DESIGNED BY ____ DRAWN BY JMW CHECKED BY ____

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF PUB. WKS. ENGR.		

APPROVED BY

DIRECTOR OF PUBLIC WORKS

DATE

EQUIPMENT & CONDUCTOR SCHEDULE

TYLER STREET & MAGNOLIA AVENUE

SCALE:

ACCOUNT No.

DRAWING NUMBER X-316

SHEET 2 OF 2