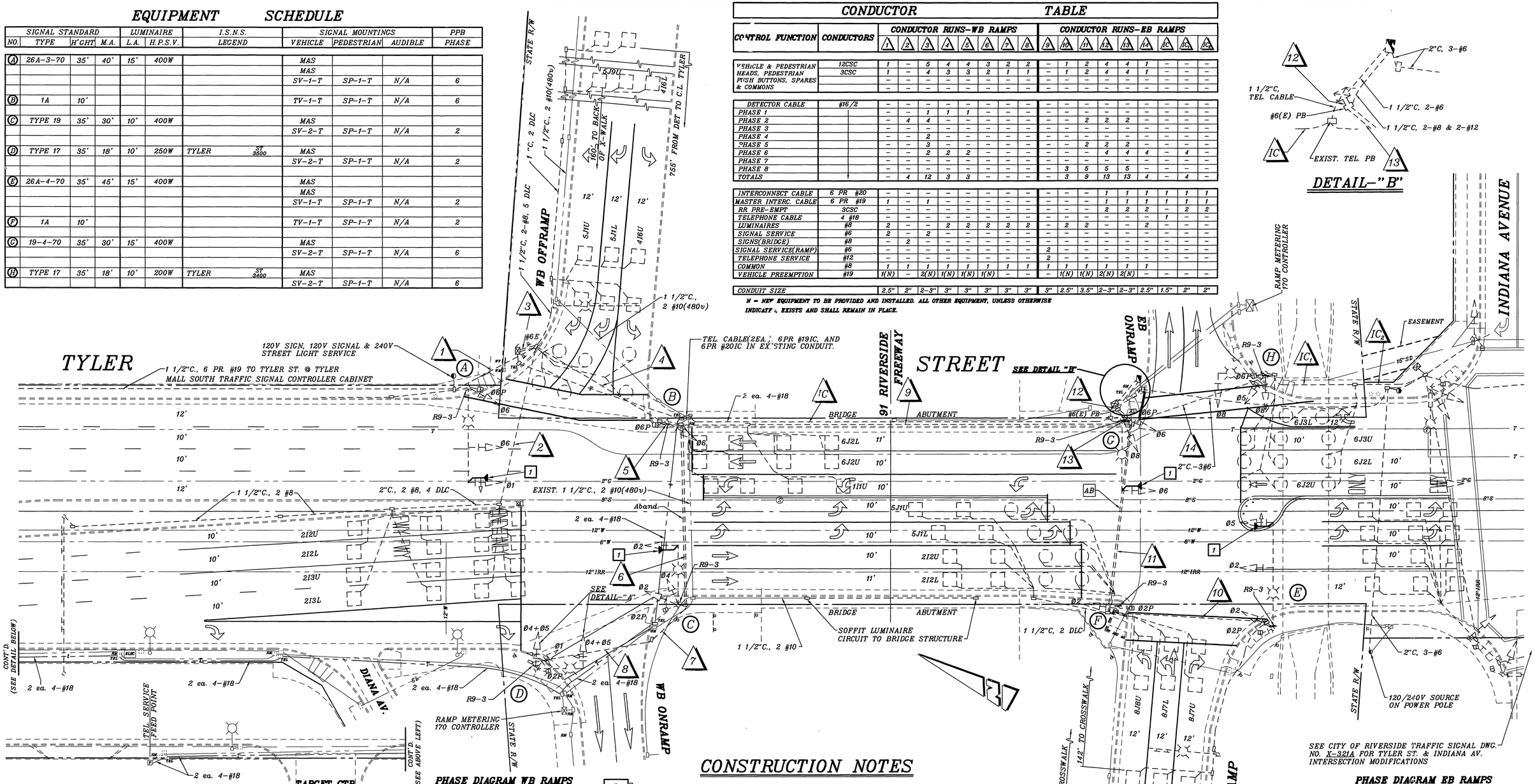
EQUIPMENT SCHEDULE

	SIGNAL STANDARD			LUMINAIRE		I.S.N.S.	SIGNAL MOUNTINGS			PPB
NO.	TYPE	H'GHT	M.A.	L.A.	H.P.S.V.	LEGEND	VEHICLE	PEDESTRIAN	AUDIBLE	PHASE
(A)	26A-3-70	35'	40'	15'	400W		MAS			
							MAS			
							SV-1-T	SP-1-T	N/A	6
(B)	1A	10'					TV-1-T	SP-1-T	N/A	6
(C)	TYPE 19	35'	30'	10'	400W		MAS			
							SV-2-T	SP-1-T	N/A	2
(D)	TYPE 17	35'	18'	10'	250W	TYLER ST 3500	MAS			
							SV-2-T	SP-1-T	N/A	2
(E)	26A-4-70	35'	45'	15'	400W		MAS			
							MAS			
							SV-1-T	SP-1-T	N/A	2
(F)	1A	10'					TV-1-T	SP-1-T	N/A	2
(G)	19-4-70	35'	30'	15'	400W		MAS			
							SV-2-T	SP-1-T	N/A	6
(H)	TYPE 17	35'	18'	10'	200W	TYLER ST 3400	MAS			
							SV-2-T	SP-1-T	N/A	6

CONDUCTOR TABLE

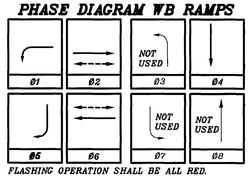
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS-WB RAMPS								CONDUCTOR RUNS-EB RAMPS								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	1C	1C1	1C2
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12CSC	1	–	5	4	4	3	2	2	–	1	2	4	4	1	–	–	–
	3CSC	1	–	4	3	3	2	1	1	–	1	2	4	4	1	–	–	–
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DETECTOR CABLE	#16/2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 1		–	–	1	1	1	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 2		–	4	4	–	–	–	–	–	–	–	2	2	2	–	–	–	–
PHASE 3		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 4		–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 5		–	–	3	–	–	–	–	–	–	–	2	2	2	–	–	–	–
PHASE 6		–	–	2	2	2	–	–	–	–	–	–	4	4	4	–	4	–
PHASE 7		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 8		–	–	–	–	–	–	–	–	–	3	5	5	5	–	–	–	–
TOTALS		–	4	12	3	3	–	–	–	–	3	9	13	13	4	–	4	–
INTERCONNECT CABLE	6 PR #20	–	–	–	–	–	–	–	–	–	–	–	1	1	1	1	1	1
MASTER INTERC. CABLE	6 PR #19	1	–	1	–	–	–	–	–	–	–	–	1	1	1	1	1	1
RR PRE-EMPT	3CSC	–	–	–	–	–	–	–	–	–	–	–	2	2	2	–	2	2
TELEPHONE CABLE	4 #18	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–	–
LUMINAIRES	#8	2	–	–	2	2	2	2	2	–	2	2	–	–	2	–	–	–
SIGNAL SERVICE	#6	2	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SIGNS(BRIDGE)	#8	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SIGNAL SERVICE(RAMP)	#6	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–
TELEPHONE SERVICE	#12	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–
COMMON	#8	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
VEHICLE PREEMPTION	#19	1(N)	–	2(N)	1(N)	1(N)	1(N)	–	–	–	1(N)	1(N)	2(N)	2(N)	–	–	–	–
CONDUIT SIZE		2.5"	2"	2-3"	3"	3"	3"	3"	3"	3"	2.5"	3.5"	2-3"	2-3"	2.5"	1.5"	2"	2"

N = NEW EQUIPMENT TO BE PROVIDED AND INSTALLED. ALL OTHER EQUIPMENT, UNLESS OTHERWISE INDICATED, EXISTS AND SHALL REMAIN IN PLACE.

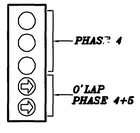


SEE CITY OF RIVERSIDE TRAFFIC SIGNAL DWG. NO. X-321A FOR TYLER ST. & INDIANA AV. INTERSECTION MODIFICATIONS

PHASE DIAGRAM WB RAMPS

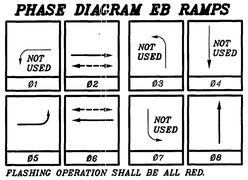


FLASHING OPERATION SHALL BE ALL RED.



DETAIL-"A"

PHASE DIAGRAM EB RAMPS



FLASHING OPERATION SHALL BE ALL RED.

CONSTRUCTION NOTES

1 — INSTALL VEHICLE PREEMPTION DETECTOR PER CALTRANS 2006 STANARD PLANS ES-4E. EXACT LOCATION OF DETECTOR SHALL BE DETERMINED BY THE ENGINEER'S REPRESENTATIVE IN THE FIELD.

08-07-N-SN-1284

IMPORTANT NOTICE
Section 4216.4(b) of the Government Code requires 2 to 8 full working days notice before commencing excavation in the vicinity of underground utilities. For your big short U.S. Member call
CALL TOLL FREE
TWO WORKING DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600

ENGINEER IN RESPONSIBLE CHARGE
GILBERT M. HERNANDEZ
R.C.E. No. 69170 expires 6-30-08
DATE 3-3-08

REGISTERED PROFESSIONAL ENGINEER GILBERT M. HERNANDEZ No. 69170 Exp. 06-30-08 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.G.G. DRAWN BY R.G.G. CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		3/13/08
TRAFFIC DIVISION		3/13/08
C MP. MGR.		3/14/08

APPROVED BY CITY ENGINEER
DATE 3/20/08

TRAFFIC SIGNAL MODIFICATION
TYLER STREET AT 91 FREEWAY EB RAMPS AND WB RAMPS
SCALE: 1" = 20'

ACCT. NO.
X-320A
SHEET 1 OF 1
FILE NAME: X320A.DWG

C:\User\TRAFFIC\X-DWGS\X320-1a.dwg, 3/3/2008 10:37:22 AM, Synergix 8850 Printer

EQUIPMENT SCHEDULE

NO.	SIGNAL STANDARD TYPE	H'GHT	M.A.	LUMINAIRE L.A.	H.P.S.V.	I.S.N.S. LEGEND	SIGNAL MOUNTINGS VEHICLE	PEDESTRIAN	AUDIBLE	PPB PHASE
(A)	26A-3-70(E)	35'	40'	15'(E)	400W(E)		MAS(E)			
							MAS(E)			
							SV-1-T(E)	SP-1-T(E)	N/A	6(E)
(B)	1A(E)	10'					TV-1-T(E)	SP-1-T(E)	N/A	6(E)
(C)	TYPE 19(E)	35'	30'	10'(E)	400W(E)		MAS(E)			
							SV-2-T(E)	SP-1-T(E)	N/A	2(E)
(D)	TYPE 17(E)	35'	18'	10'(E)	250W(E)		MAS(E)			
							SV-2-T(E)	SP-1-T(E)	N/A	2(E)
(E)	26A-4-70(E)	35'	45'	15'(E)	400W(E)		MAS(E)			
							MAS(E)			
							SV-1-T(E)	SP-1-T(E)	N/A	2(E)
(F)	1A(E)	10'					TV-1-T(E)	SP-1-T(E)	N/A	2(E)
(G)	19-4-70(E)	35'	30'	15'(E)	400W(E)		MAS(E)			
							SV-2-T(E)	SP-1-T(E)	N/A	6(E)
(H)	TYPE 17(E)	35'	18'	10'(E)	200W(E)		MAS(E)			
							SV-2-T(E)	SP-1-T(E)	N/A	6(E)

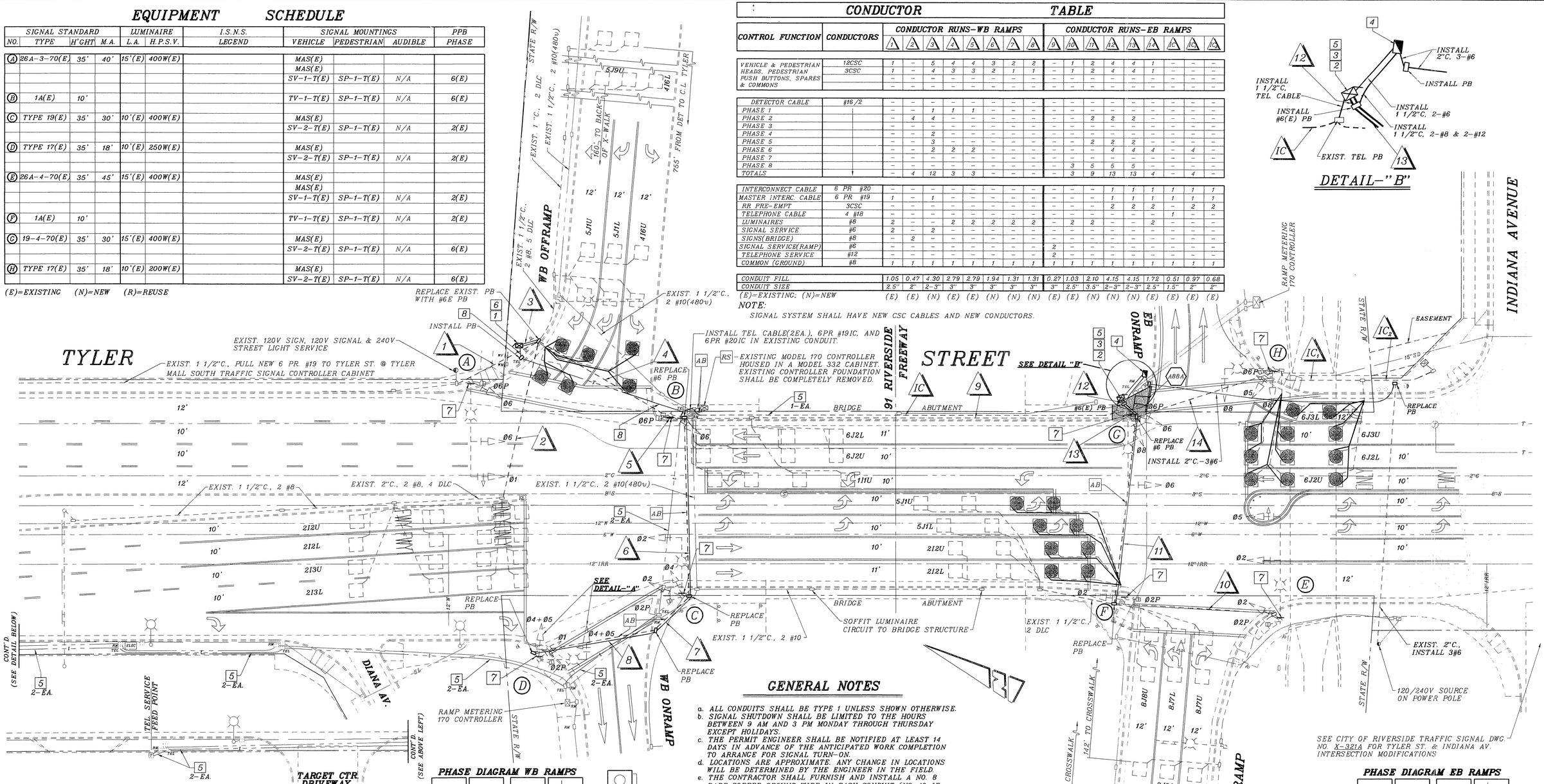
(E)=EXISTING (N)=NEW (R)=REUSE

CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS-WB RAMPS 1	2	3	4	5	6	7	8	CONDUCTOR RUNS-EB RAMPS 9	10	11	12	13	14	15	16	17
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12CSC	1	–	5	4	4	3	2	2	–	1	2	4	4	1	–	–	–
	3CSC	1	–	4	3	3	2	1	1	–	1	2	4	4	1	–	–	–
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
DETECTOR CABLE	#16/2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 1		–	–	1	1	1	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 2		–	4	4	–	–	–	–	–	–	–	2	2	2	–	–	–	–
PHASE 3		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 4		–	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 5		–	–	3	–	–	–	–	–	–	–	2	2	2	–	–	–	–
PHASE 6		–	–	2	2	2	–	–	–	–	–	–	4	4	4	–	4	–
PHASE 7		–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
PHASE 8		–	–	–	–	–	–	–	–	–	3	5	5	5	–	–	–	–
TOTALS		–	4	12	3	3	–	–	–	–	3	9	13	13	4	–	4	–
INTERCONNECT CABLE	6 PR #20	–	–	–	–	–	–	–	–	–	–	–	1	1	1	1	1	1
MASTER INTERC. CABLE	6 PR #19	1	–	1	–	–	–	–	–	–	–	–	1	1	1	1	1	1
RR PRE-EMPT	3CSC	–	–	–	–	–	–	–	–	–	–	–	2	2	2	–	2	2
TELEPHONE CABLE	4 #18	–	–	–	–	–	–	–	–	–	–	–	–	–	–	1	–	–
LUMINAIRES	#8	2	–	–	2	2	2	2	2	–	2	2	–	–	2	–	–	–
SIGNAL SERVICE	#6	2	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SIGNS(BRIDGE)	#8	–	2	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
SIGNAL SERVICE(RAMP)	#6	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–
TELEPHONE SERVICE	#12	–	–	–	–	–	–	–	–	2	–	–	–	–	–	–	–	–
COMMON (GROUND)	#8	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CONDUIT FILL		1.05	0.47	4.30	2.79	2.79	1.94	1.31	1.31	0.27	1.03	2.10	4.15	4.15	1.72	0.51	0.97	0.68
CONDUIT SIZE		2.5"	2"	2-3"	3"	3"	3"	3"	3"	3"	2.5"	3.5"	2-3"	2-3"	2.5"	1.5"	2"	2"
(E)=EXISTING; (N)=NEW		(E)	(E)	(N)	(E)	(E)	(N)	(N)	(N)	(E)	(E)	(N)	(N)	(N)	(E)	(E)	(E)	(E)

NOTE:
SIGNAL SYSTEM SHALL HAVE NEW CSC CABLES AND NEW CONDUCTORS.

DETAIL-"B"



CONSTRUCTION NOTES

1 -INSTALL 1 EA. STATE FURNISHED MODEL 170E CONTROLLER ASSEMBLY IN A 332 CABINET, ON A NEW FOUNDATION. (SEE SPECIAL PROVISIONS SECTION 7-3.1)

2 -INSTALL 1 EA. STATE FURNISHED MODEL 170E/TRFM CONTROLLER ASSEMBLY IN A 332 CABINET, ON A NEW FOUNDATION. (SEE SPECIAL PROVISIONS SECTION 7-3.1)

3 -INSTALL NEW BATTERY BACKUP SYSTEM (BBS), MOUNTED EXTERNALLY ON THE CONTROLLER CABINET. ALL BBS PARTS SHOULD BE INSTALLED INSIDE THE BBS CABINET AND NOT IN THE CONTROLLER CABINET.

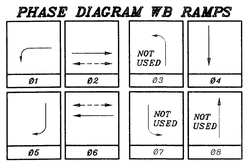
4 -INSTALL TYPE III-CF SERVICE EQUIPMENT ENCLOSURE PER CALTRANS STANDARD PLANS ES-2C AND ES-2F.

5 -INSTALL TELEPHONE CABLE IN EXISTING CONDUIT, FROM THE TELEPHONE SERVICE FEED POINT ON S/S OF TYLER ST. (360'± N/O WB 91 FREEWAY RAMPS) TO 332 CONTROLLER CABINETS AT FREEWAY RAMPS. TELEPHONE CABLE TO TERMINATE AT AN RJ-11 MODULAR JACK INSIDE THE CABINETS, TELEPHONE CABLE SHALL BE FOUR-WIRE #18 IN COMPLIANCE WITH CALTRANS STANDARD SPECIAL PROVISIONS.

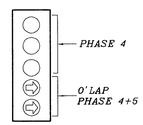
6 -REUSE EXISTING EXTERNAL BBS CABINET, AND INSTALL ON NEW CONTROLLER CABINET.

7 -INSTALL R96 (24") SIGN ON SIGNAL POLE (8 EA.) PER CALTRANS STANDARD PLAN RS4.

PHASE DIAGRAM WB RAMPS



FLASHING OPERATION SHALL BE ALL RED.



DETAIL-"A"

CONSTRUCTION NOTES (CONT'D.)

8 -INSTALL NEW 2" CONDUIT, TEL. CABLE(2EA.), 6PR #19IC, AND 6PR #20IC.

A88A -INSTALL CURB RAMP (WHEELCHAIR RAMP), MODIFIED TYPE A, PER CALTRANS STANDARD PLAN RSP A88A.

PAVEMENT DELINEATION

INDICATES STRIPING AND PAVEMENT MARKINGS TO BE INSTALLED.

INDICATES STRIPING AND PAVEMENT MARKINGS TO REMAIN.

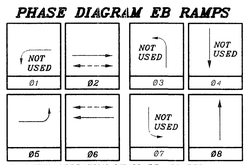
INDICATES STRIPING AND PAVEMENT MARKINGS TO BE REMOVED.

GENERAL NOTES

a. ALL CONDUITS SHALL BE TYPE 1 UNLESS SHOWN OTHERWISE.
b. SIGNAL SHUTDOWN SHALL BE LIMITED TO THE HOURS BETWEEN 9 AM AND 3 PM MONDAY THROUGH THURSDAY EXCEPT HOLIDAYS.
c. THE PERMIT ENGINEER SHALL BE NOTIFIED AT LEAST 14 DAYS IN ADVANCE OF THE ANTICIPATED WORK COMPLETION TO ARRANGE FOR SIGNAL TURN-ON.
d. LOCATIONS ARE APPROXIMATE. ANY CHANGE IN LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
e. THE CONTRACTOR SHALL FURNISH AND INSTALL A NO. 8 BARE COPPER GROUND WIRE IN EACH CONDUIT (NO. 10 IF CONDUIT CONTAINS NO POWER CONDUCTORS).
f. EQUIPMENT TO BE SALVAGED WITHIN THE STATE RIGHT-OF-WAY SHALL REMAIN THE PROPERTY OF THE STATE AND SHALL BE DELIVERED TO THE MAINTENANCE YARD LOCATED AT 175 CLUSTER ST. SAN BERNARDINO, CA 92408.
g. PEDESTRIAN PUSH BUTTONS (PPBs) SHALL BE TYPE "B", MOUNTED AT A HEIGHT OF 1m. PPBs SHALL COMPLY WITH ADA GUIDELINES.
h. CONTRACTOR SHALL ARRANGE TO HAVE A SIGNAL TECHNICIAN, QUALIFIED TO WORK ON EMERGENCY VEHICLE PRE-EMPTION (EVP) UNIT AND EMPLOYED BY THE EVP MANUFACTURER OR HIS REPRESENTATIVE, PRESENT AT THE TIME WHEN THE EQUIPMENT IS TURNED ON.
i. DETECTOR LOOPS SHALL BE INSTALLED IN THE PRESENCE OF THE TRAFFIC ENGINEER OR HIS REPRESENTATIVE.
j. TYPICAL DETECTOR LOOP SPACING: 10' AND 15'.

IMPORTANT NOTICE
Section 4216/4217 of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" is an valid. For permits issued, you must call:
CALL TOLL FREE
TWO WORKING DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
1-800-227-2600

PHASE DIAGRAM EB RAMPS



FLASHING OPERATION SHALL BE ALL RED.

-THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY-

CONTRACT TE-04-01

STATE ENCROACHMENT PERMIT NO.: 08-04-N-SN-0388

ENGINEER IN RESPONSIBLE CHARGE

THOMAS JOHN BOYD
R.C.E. No. 36170
DATE

REGISTERED PROFESSIONAL ENGINEER THOMAS JOHN BOYD No. C 36170 Exp. 6-30-2006 CIVIL STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.C.G. DRAWN BY R.C.G. CHECKED BY

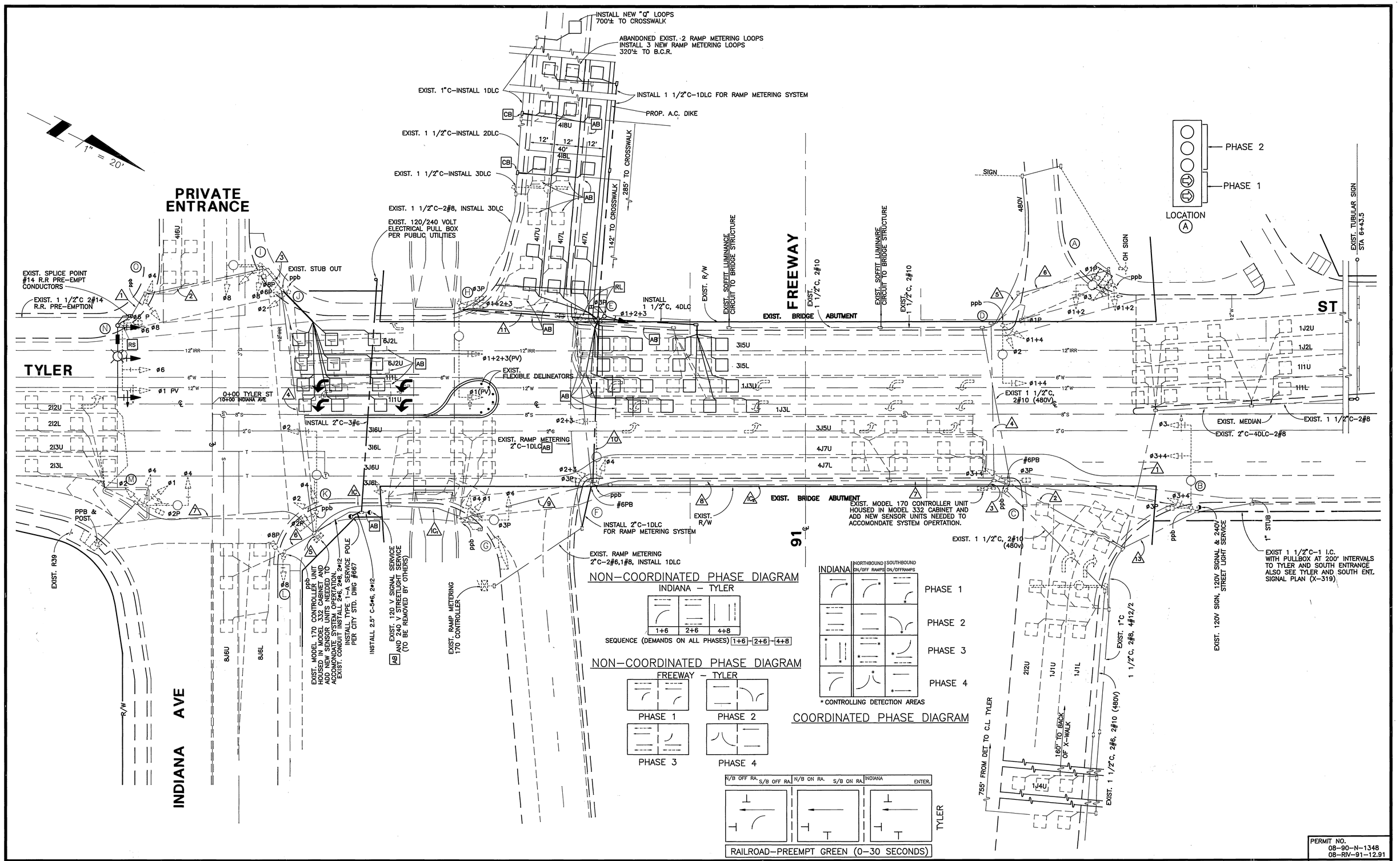
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	APPROVED BY	DATE
PRINCIPAL ENGINEER		10/7/04
TRAFFIC DIVISION		10/6/04

APPROVED BY CITY ENGINEER
DATE 10/8/04

TRAFFIC SIGNAL MODIFICATION
TYLER STREET
AT 91 FREEWAY EB RAMPS AND WB RAMPS
SCALE: 1" = 20'

ACCT. NO. 9756433214-44030200
X-320A
SHEET 1 OF 1
FILE NAME: X320A.DWG



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 JIMMY W. SYKES No. 35458 Exp. 9/30/95 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
REGISTERED CIVIL ENGINEER NO: 35458
EXPIRATION DATE: 9-30-95 DATE: 11-4-91

RECOMMENDED BY:
James B. Dobbins DATE: 11-4-91

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING LANDSCAPE ARCHITECTURE
MUNICIPAL ENGINEERING DIVISION
3426 TENTH STREET
P.O. BOX 493
RIVERSIDE, CA 92502
(714) 683-0209 FAX (714) 686-5807

SCALE: 1"=20'-0"
DATE: NOVEMBER, 91
BENCH MARK:

MARK	REVISIONS	APPR.	DATE

DESIGNED BY K.T.O. DRAWN BY R.D.W CHECKED BY O.M.A.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		4/21/92
INSPECTION	—	—
TRAFFIC DIVISION		4/21/92
CHIEF P.W. ENGINEER		4/21/92
PUBLIC UTILITIES		4/21/92

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 4/21/92

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET
AND
91 EB RAMPS

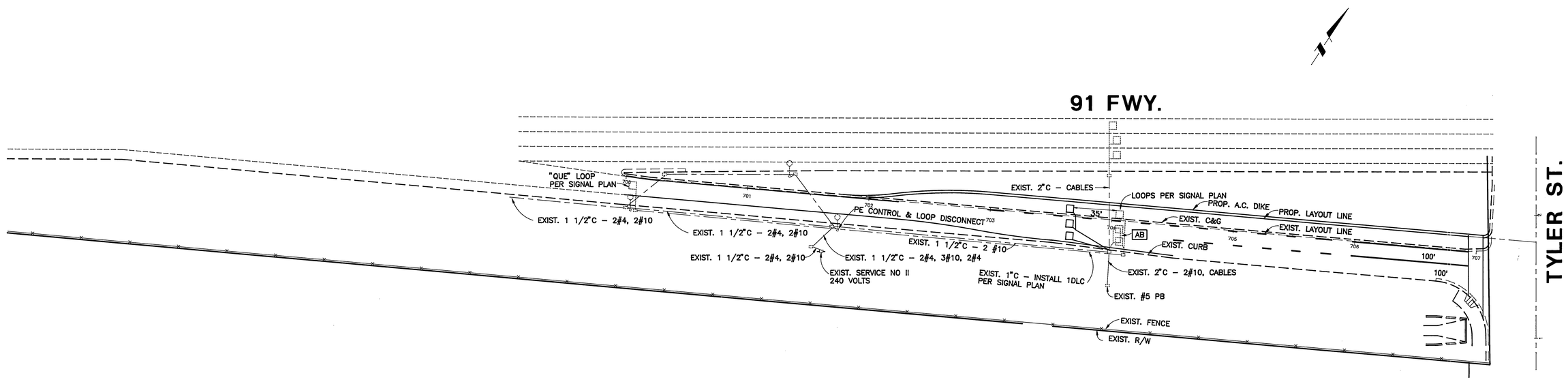
HORIZ SCALE: 1"=20' VERT. SCALE: 1"

PERMIT NO.
08-90-N-1348
08-RIV-91-12.91

PROJECT NO.
X-320A

SHEET 1 OF 2

FILE NO: 8911175



Underground Service Alert
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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 JIMMY W SIMS No. 35458 Exp. 9/30/95 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
REGISTERED CIVIL ENGINEER NO: 35458
EXPIRATION DATE: 9/30/95 DATE: 11/4/91
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING LANDSCAPE ARCHITECTURE
MUNICIPAL ENGINEERING DIVISION
3426 TENTH STREET
P.O. BOX 493
RIVERSIDE, CA 92502
(714) 683-0209 FAX (714) 686-5807

SCALE: 1" = 40'-0"
DATE: NOVEMBER, 91
BENCH MARK:

MARK	REVISIONS	APPR.	DATE

DESIGNED BY KTO/OMA DRAWN BY KTO CHECKED BY OMA

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		4/14/92
INSPECTION	—	—
TRAFFIC DIVISION		4/14/92
CHIEF P.W. ENGINEER		4/14/92
PUBLIC UTILITIES		4/14/92

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 4/21/92

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
REWIRING PLAN

91 E.B. OFFRAMP

HORIZ SCALE: 1" VERT. SCALE: 1"

PERMIT NO.
08-90-N-1348
08-RIV-91-12.91

PROJECT NO.
X-320B
SHEET 1 OF 1
FILE NO: 8911175

REVISED PLANS

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	TYPE 17	35'	18'	10'	MAS	SV-2-T	SP-1-T	ø1	3	250 W.	Tyler ST 3500	
B	26A-3-70	35'	40'	15'	2-MAS	SV-1-T	SP-1-T	ø3	3	400 W.		
C	1-A	10'				TV-1-T	SP-1-T	ø3	3			
D	TYPE 19	35'	30'	10'	MAS	SV-2-T	SP-1-T	ø1	1	400 W.		
E	1-A	10'				TV-1-T	SP-1-T	ø3	1			RELOCATE EXISTING POLE AND EQUIPMENT AS SHOWN
F	19-4-70	35'	30'	15'	MAS	SV-2-T	SP-1-T	ø3	3	400 W.		
G	TYPE 17	35'	18'	10'	MAS	SV-2-T	SP-1-T	ø3	1	200 W.	Tyler ST 3400	
H	26A-4-70	35'	45'	15'	2-MAS	SV-1-T	SP-1-T	ø3	1	400 W.		
I	17A-2-70	35'	15'	15'	MAS	SV-1-T	SP-1-T	ø6	3	400 W.		
J	1-A	10'				TV-1-T		ø8	4			
K	26A-4-70	35'	40'	15'	2-MAS	SV-2-T	SP-1-T	ø8	4	400 W.		
L	1-A	10'				TV-1-T	SP-1-T	ø2	1			
M	17A-2-.70	35'	20'	15'	MAS	SV-3-TA				400 W.		
N	24A-4-80	35'	35'	15'	2-MAS	SV-2-T	SP-1-T			400 W.		INSTALL NEW POLE, RELOCATE EXISTING EQUIPMENT TO NEW POLE
O	1-A	10'				TV-1-T		ø6	3			

ALL POLES AND EQUIPMENT EXISTING UNLESS OTHERWISE SEE REMARKS
THE ACCURACY OF THIS TABLE IS BASED ON EXISTING PLAN NO X-320
THE EXACT LOCATION FOR NEW POLE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

GENERAL NOTES:

1. TRAFFIC SIGNAL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE CURRENT PROVISIONS OF SECTION 86 OF THE STANDARD SPECIFICATIONS, THE STANDARD PLANS (DATED JANUARY 1988), BOTH PUBLISHED BY THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS), THE CONSTRUCTION PLAN(S) AND SPECIAL PROVISIONS AND AS DIRECTRED 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 BE NOT PERFORMED UNTIL TRAFFIC SIGNAL MAINTENANCE PERSONNEL HAVE BEEN NOTIFIED AT (714)351-6096 (CITY OF RIVERSIDE) AND CALTRANS ELECTRICAL INSPECTOR(714) 383-4609.
7. ALL SIGNAL AND BACK PLATES SHALL BE METAL. ALL LENSES SHALL BE GLASS LEFT-TURN HEADS SHALL BE RED, YELLOW AND GREEN ARROW. ALL VEHICLE INDICATIONS SHALL BE 12". PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOL TYPE "C".
8. ALL SALVAGED MATERIALS SHALL BE DELIVERED TO CITY YARD.

TYLER STREET & SR 91 RAMPS

CONDUCTOR SCHEDULE

AWG	CONDUCTOR	CONDUIT RUN 1	2	3	4	5	6	7	8	9	10	11	13	16	16	16
#14	ø1			(3)				(3)	(3)	3	(3)	(3)				
	ø2			3	3											
	ø3		3	6	3	3	3						3			
	ø4			3				3	3	3						
	ø1+2(OL)			5	5	5	5									
	ø1+2+3(OL)			(3)				(3)	(3)		(3)	(3)				
	ø2+3(OL)			3				3	3							
	ø3+4(OL)		3	6									3			
	ø1+4(OL)			3	3											
	ø1PED			2	2	2	2									
	ø3PED		2	2 (2)				(2)	(2)	4	(2)	(2)	2			
	ø1PPB			2	2	1	1									
	ø3PPB		1	5 (1)				3 (1)	3 (1)	1	1 (1)	(1)	1			
	R.R. PRE-EMPT			2				2	2	2				2	2	
	PPB COMMON		1	3	1	1	1	1	1	1	(1)	(1)	1			
	SPARE		3	9	3	3	3	3	3	3	(3)	(3)	3			
	TOTAL #14		13	63	22	15	15	24	24	17	14	13	13	2	2	
#10	120V COMMON		1	3	1	1	1	1	1	1	1	1	1			
	LUMINAIRE SOFFIT															
	TOTAL #10		1	3	1	1	1	1	1	1	1	1	1			
#8	SIGNAL SERVICE		2	2									2			
	SIGNS (BRIDGE)	2														
	LUMINAIRE		2		2	2	2	2	2	2	(2)	(2)	2			
	TOTAL #8	2	4	2	2	2	2	2	2	2	2	2	4			
DLC	ø1	4	6	8				2	2		2					
	ø2		1	1												
	ø3			7				7	6	4	2					
	ø4			2 (5)				2 (5)	(5)		(5)	(3)				
	RAMP METERING										(1)					
	TOTAL DLC	4	7	24				16	13	4	10	3				
6 PAIRS #20 INTERCONNECT CABLE				1						1				1	1	1
3 PAIRS #19 MASTER INT. CABLE			1	1						1				1	1	1
	CONDUIT SIZE	2" (E)	3" (E)	2-3" (E)	2" (E)	1½" (E)	1½" (E)	3" (E)	3" (E)	2½" (E)	2½" (N)	2½" (N)	2½" (E)	2" (E)	2" (E)	1½" (E)

ALL CONDUITS AND CONDUCTORS EXISTING UNLESS OTHERWISE NOTED.
(N) = INSTALL NEW CONDUIT
(X) = INSTALL NEW CONDUCTOR

PHASE 1 EXISTING | **PHASE 2** TO BE DONE

TYLER STREET & INDIANA AVENUE

CONDUCTOR SCHEDULE

AWG	CONDUCTOR	CONDUIT RUN 1	2	3	4	5	6	7
#14	ø1	(3)	(3)	(3)	(3)	3(3)		3
	ø2			3	3	6		3
	ø4		3	3	3	6		3
	ø6	(3)	(3)	(3)	(3)	(3)		
	ø8		3	3	3	6	3	
	ø2PED					4		2
	ø6PED	(2)	(2)	(2)	(2)	(2)		
	ø8PED			2	2	4	2	
	ø2PPB					2	1	1
	ø6PPB		1	1	1	1		
	ø8PPB				1	2		
	R.R. PRE-EMPT	2	2	2	2	2		
	PPB COMMON	1	1	1	1	2	1	1
	SPARE	3	3	3	3	6	3	3
	TOTAL #14	14	21	26	27	52	10	16
#10	120V COMMON	1	1	1	1	2	1	1
	TOTAL #10	1	1	1	1	2	1	1
#6	SIGNAL SERVICE					(2)		
#8	LUMINAIRE	2	2	2	2			2
	TOTAL #8	2	2	2	2			2
DLC	ø1				K(1)	K(1)		
	ø2					4		4
	ø4		1	1	1	1		
	ø6				2	2		
	ø8					2	2	
	TOTAL DLC		1	1	5	11	2	4
6 PAIRS #20 INTERCONNECT CABLE						1		
3 PAIRS #19 MASTER INT. CABLE						1		
	CONDUIT SIZE	2" (E)	2½" (E)	2½" (E)	3" (E)	3½" (E)	2" (E)	2½" (E)

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

PERMIT NO. 08-90-N-1348 08-RIV-91-12.91

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 JIMMY W. SIMS No. 35458 Exp. 9/30/95 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF Jimmy Sims
REGISTERED CIVIL ENGINEER NO: 35458
EXPIRATION DATE: 9-30-95 DATE: 11-4-91
RECOMMENDED BY: James B. Dobbins DATE: 11-4-91

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING LANDSCAPE ARCHITECTURE
MUNICIPAL ENGINEERING DIVISION
3426 TENTH STREET
P.O. BOX 493
RIVERSIDE, CA 92502
(714) 683-0209 FAX (714) 686-5807

SCALE: NONE | BENCH MARK:
DATE: NOVEMBER, 91

MARK	REVISIONS	APPR.	DATE

DESIGNED BY K.T.O. DRAWN BY R.D.W CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

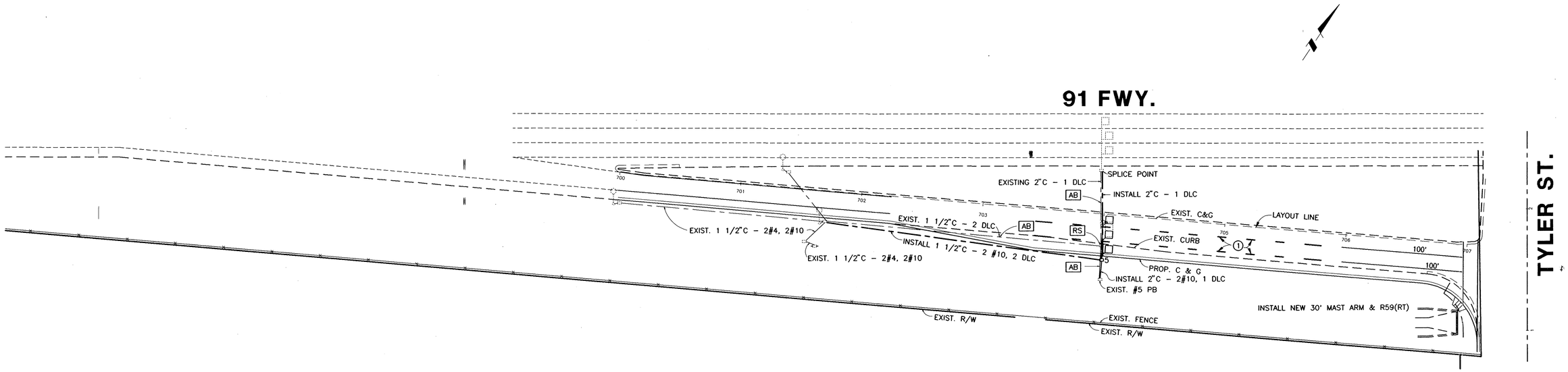
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		4/21/92
INSPECTION	—	—
TRAFFIC DIVISION		4/21/92
CHIEF P.W. ENGINEER		4/21/92
PUBLIC UTILITIES		4/21/92

APPROVED BY DIRECTOR OF PUBLIC WORKS DATE 4/21/92

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET AND 91 EB RAMPS

HORIZ SCALE: 1" VERT. SCALE: 1"

PROJECT NO. X-320A
SHEET 2 OF 2
FILE NO: 8911175



Underground Service Alert
Call: TOLL FREE
1 - 800
422 - 4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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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: _____
APPROVED BY: _____

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" = 40'-0" BENCH MARK:
DATE: DECEMBER, 90

MARK	REVISIONS	APPR.	DATE

DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

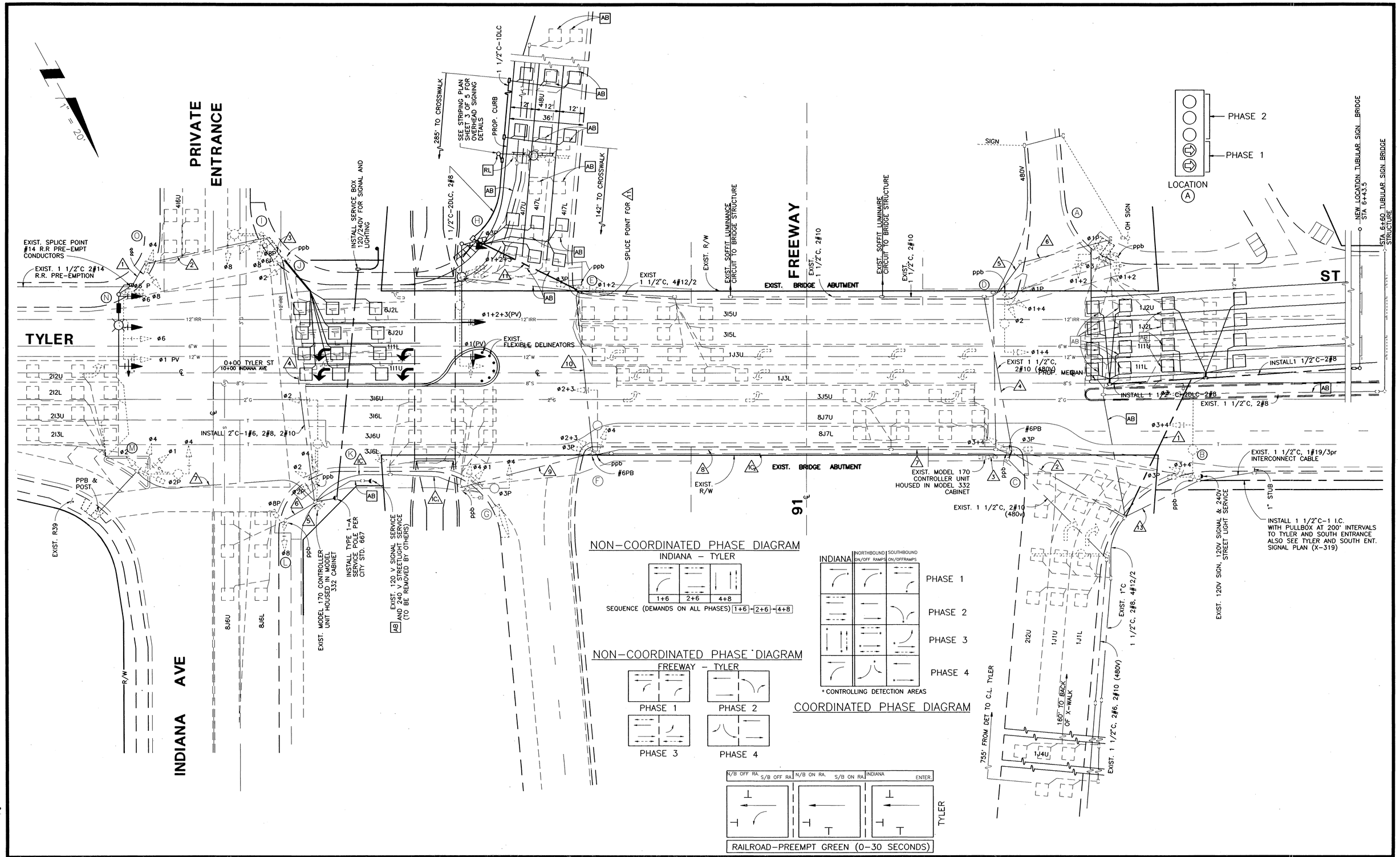
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
INSPECTION		
TRAFFIC DIVISION		12/21/90
CHIEF P.W. ENGINEER		12/21/90

APPROVED BY: _____
DIRECTOR OF PUBLIC WORKS
DATE 12/21/90

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
REWIRING PLAN
91 E.B. OFFRAMP

HORIZ SCALE: 1" VERT. SCALE: 1"

PROJECT NO. X-320B
SHEET 1 OF 1
FILE NO: -



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. FRASER 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: 12-19-90
APPROVED 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 R.D.W CHECKED BY

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		12-20-90
CHIEF P.W. ENGINEER		12-21-90
P.U. ELECT.		12/21/90

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/21/90

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET
AND
91 EB RAMPS

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

PROJECT NO. 8911175
X-320A
SHEET 1 OF 2
FILE NO:

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	TYPE 17	35'	18'	10'	MAS	SV-2-T	SP-1-T			200 W.	Tyler ST 3500	
B	26A-3-70	35'	40'	15'	2-MAS	SV-1-T	SP-1-T			400 W.		
C	1-A	10'				TV-1-T	SP-1-T					
D	TYPE 19	35'	30'	10'	MAS	SV-2-T	SP-1-T			400 W.		
E	1-A	10'				TV-1-T	SP-1-T					
F	19-4-70	35'	30'	15'	MAS	SV-2-T	SP-1-T			400 W.		
G	TYPE 17	35'	18'	10'	MAS	SV-2-T	SP-1-T			200 W.	Tyler ST 3400	
H	29A-5-80	35'	50'	15'	2-MAS	SV-1-T	SP-1-T			400 W.		INSTALL NEW POLE, RELOCATE EXISTING EQUIPMENT TO NEW POLE
I	17A-2-70	35'	15'	15'	MAS	SV-1-T	SP-1-T			400 W.		
J	1-A	10'				TV-1-T						
K	26A-4-70	35'	40'	15'	MAS	SV-2-T	SP-1-T			400 W.		
L	1-A	10'				TV-1-T	SP-1-T					
M	17A-2-70	35'	20'	15'	MAS	SV-3-TA				400 W.		
N	24A-4-80	35'	35'	15'	2-MAS	SV-1-T	SP-1-T			400 W.		INSTALL NEW POLE, RELOCATE EXISTING EQUIPMENT TO NEW POLE
O	1-A	10'				TV-1-T						

ALL POLES AND EQUIPMENT EXISTING UNLESS OTHERWISE SEE REMARKS
THE ACCURACY OF THIS TABLE IS BASED ON EXISTING PLAN NO X-320
THE EXACT LOCATION FOR NEW POLE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

GENERAL NOTES:

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.
9. REFERENCE IS MADE TO EXISTING SIGNAL PLAN NO. X-320 FOR TYLER STREET AND 91 RAMPS.

TYLER STREET & SR 91 RAMPS

CONDUCTOR SCHEDULE

AWG	CONDUCTOR	CONDUIT RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14
#14	ø2			3	3										
	ø1+2(OL)			5	5	5	5								
	ø1+2+3(OL)			③				③	③		③	③			
	ø2+3(OL)			3				3	3						
	ø3+4(OL)		3	6											
	ø1			3 ③				3 ③	3 ③	3	③	③			
	ø3		3	6	3	3	3								
	ø4			3				3	3	3					
	ø1+4(OL)			3	3										
	ø1PED			2	2	2	2								
	ø3PED		②	4 ②				2 ②	2 ②	2	②	②			
	ø1PPB			2	2	1	1								
	ø3PPB		1	6				4	4	1	2	①			
	R.R. PRE-EMPT			2				2	2	2			2	2	
	PPB COMMON		1	2 ①	①	①	①	①	①	1	①	①			
	SPARE	3	3	6 ③	③	③	③	③	③	3	③	③			
	TOTAL #14	3	13	68	23	15	15	29	29	15	16	15	2	2	
#10	120V COMMON		1	3	1	1	1	1	1	1	1	1			
	LUMINAIRE SOFFIT		2		2										
	TOTAL #10		3	3	3	1	1	1	1	1	1	1			
#8	SIGNAL SERVICE		2	2											
	SIGNS (BRIDGE)	2													
	LUMINAIRE		2		2			2	2	2	2	②			
	TOTAL #8	2	4	2	2	2	2	2	2	2	2	2			
DLC	ø1	2	2	4	2	2	2								
	ø2		1	1											
	ø3			7				7	6	4	2				
	ø4			2 ③				2 ③	③		③	③			
	TOTAL DLC	2	3	17	2	2	2	12	9	4	5	3			
6 PAIRS #22 INTERCONNECT CABLE				1						1			1	1	1
3 PAIRS #19 MASTER INT. CABLE			1	1						1			1	1	1
	CONDUIT SIZE	2"	3"	2-3"	2"	1½"	1½"	3"	3"	2½"	2½"	2½"	2"	2"	1½"
		(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(E)	(N)	(E)	(E)	(E)

ALL CONDUITS AND CONDUCTORS EXISTING UNLESS OTHERWISE NOTED.
(N) = INSTALL NEW CONDUIT
⊗ = INSTALL NEW CONDUCTOR

TYLER STREET & INDIANA AVENUE

CONDUCTOR SCHEDULE

AWG	CONDUCTOR	CONDUIT RUN 1	2	3	4	5	6	7
#14	ø1	3	3	3	3	6		3
	ø2					6		3
	ø4					6		3
	ø6	3	3	3	3	3		
	ø8		3	3	3	6		
	ø2PED					4		
	ø6PED	2	2	2	2	2		
	ø8PED			2	2	2		
	ø2PPB					2	1	1
	ø6PPB		1	1	1	2		
	ø8PPB				1	2		
	R.R. PRE-EMPT	1	1	1	1	2		
	PPB COMMON	1	1	1	1	2	1	1
	SPARE	3	3	3	3	6	3	3
	TOTAL #14	13	19	21	22	51	5	16
#10	120V COMMON	1	1	1	1	2	1	1
	TOTAL #10	1	1	1	1	2	1	1
#8	SIGNAL SERVICE					2		
	LUMINAIRE	2	2	2	2			2
	TOTAL #8	2	2	2	2	2	2	2
DLC	ø1				1	1		
	ø2					4		4
	ø4		1	1	1	1		
	ø6				2	2		
	ø8					2	2	
	TOTAL DLC		1	1	4	10	2	4
6 PAIRS #22 INTERCONNECT CABLE						1		
3 PAIRS #19 MASTER INT. CABLE						1		
	CONDUIT SIZE	2"	2½"	2½"	3"	3½"	2"	2½"
		(E)	(E)	(E)	(E)	(E)	(E)	(E)

ALL CONDUITS AND CONDUCTORS EXISTING UNLESS OTHERWISE NOTED.

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: NO SCALE
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

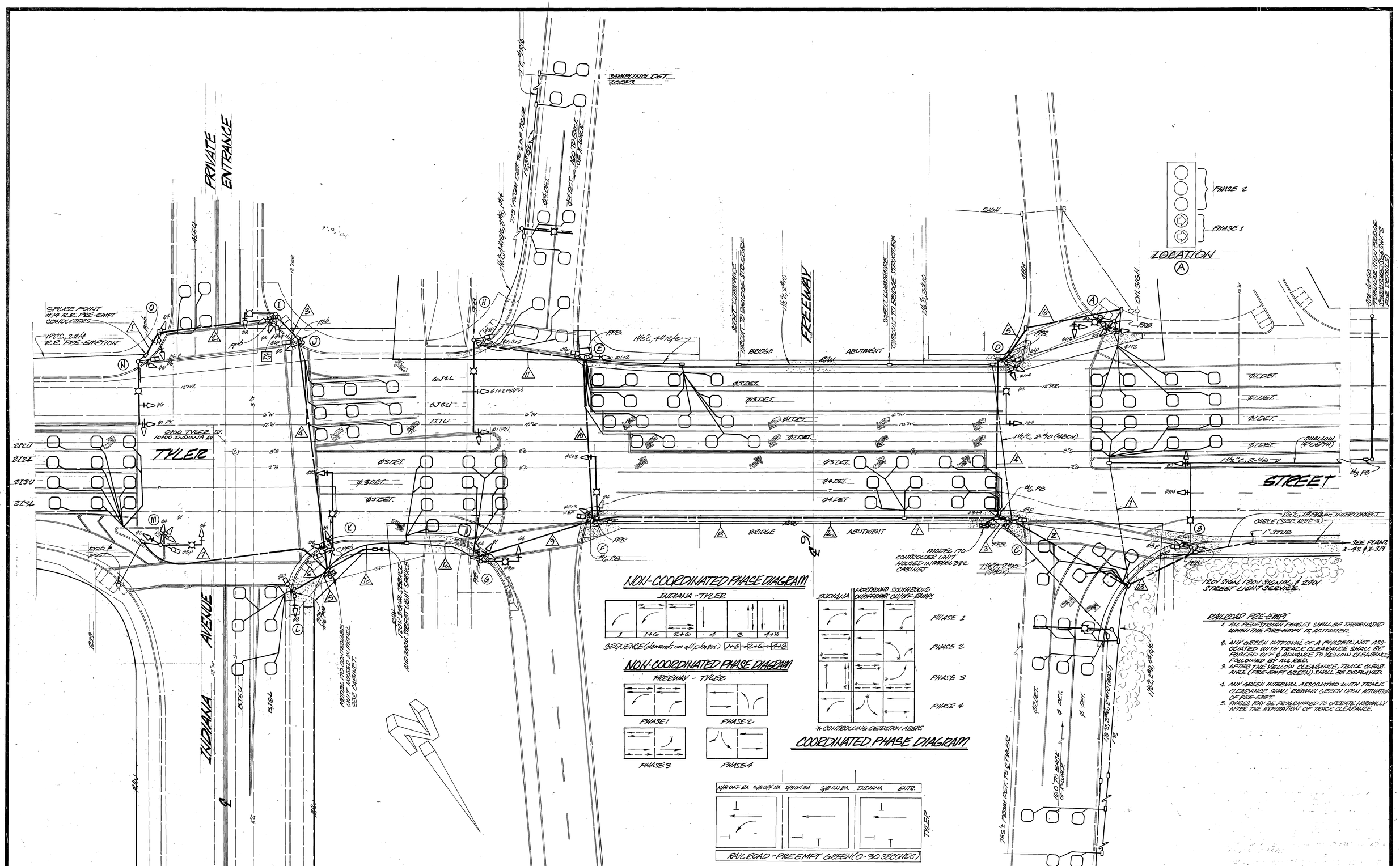
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
INSPECTION		
TRAFFIC DIVISION		12-21-90
CHIEF P.W. ENGINEER		12-21-90
PUBLIC UTILITIES		12/21/90

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/21/90

TYLER MALL EXPANSION
C.F.D. # 90-2 IMPROVEMENTS
TRAFFIC SIGNAL MODIFICATION PLAN
TYLER STREET
AND
91 EB RAMPS

HORIZ SCALE: 1" VERT. SCALE: 1"

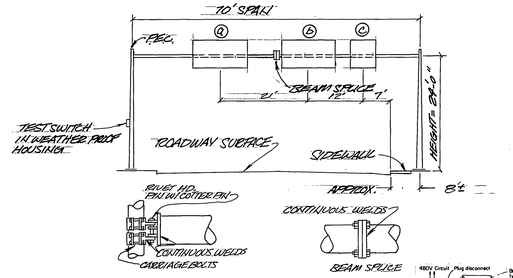
PROJECT NO.
X-320A
SHEET 2 OF 2
FILE NO: 8911175


PRIVATE ENTRANCE
TYLER
STREET
INDIANA AVENUE
FREEWAY
BRIDGE
ABUTMENT
SAMPLING DET. LOOPS
SPLICE POINT #14 R.R. PRE-EMPT CONDUCTORS
1½"C, 2#14 R.R. PRE-EMPTION
0+00 TYLER ST. 10+00 INDIANA AV.
SOFFIT LUMINAIRE CIRCUIT TO BRIDGE STRUCTURE
MODEL 170 CONTROLLER UNIT HOUSED IN MODEL 332 CABINET
120V SIGN, 120V SIGNAL & 240V STREET LIGHT SERVICE
SHALLOW (4" DEPTH)
1" STUB
SEE PLANS X-42 & X-319
LOCATION
PHASE 2
PHASE 1
NON-COORDINATED PHASE DIAGRAM
INDIANA - TYLER
1
1+6
2+6
4
8
4+8
SEQUENCE (demands on all phases) 1+6 → 2+6 → 4+8
NON-COORDINATED PHASE DIAGRAM
FREEWAY - TYLER
PHASE 1
PHASE 2
PHASE 3
PHASE 4
INDIANA
NORTHBOUND ON/OFF RAMPS
SOUTHBOUND ON/OFF RAMPS
PHASE 1
PHASE 2
PHASE 3
PHASE 4
* CONTROLLING DETECTION AREAS
COORDINATED PHASE DIAGRAM
N/B OFF RA.
S/B OFF RA.
N/B ON RA.
S/B ON RA.
INDIANA
ENTR.
TYLER
RAILROAD - PRE EMPT GREEN (0-30 SECONDS)
RAILROAD PRE-EMPT
1. ALL PEDESTRIAN PHASES SHALL BE TERMINATED WHEN THE PRE-EMPT IS ACTIVATED.
2. ANY GREEN INTERVAL OF A PHASE(S) NOT ASSOCIATED WITH TRACK CLEARANCE SHALL BE FORCED OFF & ADVANCE TO YELLOW CLEARANCE, FOLLOWED BY ALL RED.
3. AFTER THE YELLOW CLEARANCE, TRACK CLEARANCE (PRE-EMPT GREEN) SHALL BE DISPLAYED.
4. ANY GREEN INTERVAL ASSOCIATED WITH TRACK CLEARANCE SHALL REMAIN GREEN UPON ACTIVATION OF PRE-EMPT.
5. PHASES MAY BE PROGRAMMED TO OPERATE NORMALLY AFTER THE EXPIRATION OF TRACK CLEARANCE.
CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
APPROVED BY
PRINCIPAL ENGINEER
PARK DEPARTMENT
TRAFFIC DIVISION
CHIEF P. W. ENGINEER
PUBLIC UTILITIES ELEC.
DATE
BY
APPROVED BY
William D. Gardner
PUBLIC WORKS DIRECTOR
DATE JUNE 3, 1985
MARK
REVISIONS
APPR.
DATE
DESIGNED BY
DRAWN BY
CHECKED BY
TRAFFIC SIGNAL MODIFICATIONS
TYLER STREET WIDENING AND MEDIAN RELOCATION
PHASE II
BETWEEN INDIANA AVENUE AND 1000' NORTHERLY AT THE TYLER MALL ENTRANCE
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" =
ACCOUNT NO. 30-575-309-07
X-320
SHEET 1 OF 2

EQUIPMENT SCHEDULE

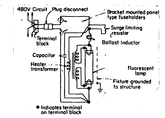
LOCATION	STANDARD	VEHICLE HEADS			PEDESTRIAN HEADS			LUMINAIRE	HIGH INTENSITY STREET NAME SIGN	REMARKS
		HEAD	MOUNTING	BACK PLATE	HEAD	MOUNTING	PPB	WATTAGE		
A	TYPE 17 18' SMA 10' LMA	1W3C(12") 1W3C(12")	MAS SV-2-T	1 2	1W2C	SP-1-T	1	200W	TYLER 2W200	
B	26-3-70 40' SMA 15' LMA	1W3C(12") W3C(12") 1W3C	MAS MAS SV-1-T	1 1 1	1W2C	SP-1-T	1	400W.		
C	TYPE 1A 10'	1W3C	TV-1-T	1	1W2C	SP-1-T	1			
D	TYPE 19 30' SMA 10' LMA	1W3C(12") 2W3C	MAS SV-2-T	1 2	1W2C	SP-1-T	1	400W.		
E	TYPE 1A 10'	1W3C	TV-1-T	1	1W2C	SP-1-T	1			
F	19-4-70 30' SMA 15' LMA	1W3C(12") 2W3C	MAS SV-2-T	1 2	1W2C	SP-1-T	1	400W.		
G	TYPE 17 18' SMA 10' LMA	1W3C(12") 2W3C	MAS SV-2-T	1 2	1W2C	SP-1-T	1	200 W.	TYLER 2W200	
H	TYPE 26 45' SMA 15' LMA	1W3C(12") 1W3C(12") 1W3C	MAS MAS SV-1-T	1 1 1	1W2C	SP-1-T	1	400W.		
I	17A-2-70 15' SMA 15' LMA	1W3C(12") 1W3C(12")	MAS SV-1-T	1 1	1W2C	SP-1-T		400W.		
J	TYPE 1A 10'	1W3C	TV-1-T	1	1					
K	24A-4-70 40' SMA 15' LMA	1W3C(12") 2W3C	MAS SV-2-T	1 2	1W2C	SP-1-T	1	400W.		
L	TYPE 1A 10'	1W3C	TV-1-T	1	1W2C	SP-1-T	1			INSTALL RELOCATED STD. RELOCATED PED.
M	17A-2-70 20' SMA 15' LMA	1W3C(12") 2W3C	MAS SV-3-TA	1 3				200W.		PROVIDE & INSTALL VEHICULAR HEAD ON EXIST. STD.; MODIFY FRAMEWORK. SALVAGE EXIST. OL HEAD.
N	17A-2-70 30' SMA 15' LMA	1W3C(12") 1W3C(12") 1W3C	MAS MAS SV-1-T	1 1 1	1W2C	SP-1-T	1	200W.		
O	TYPE 1A 10'	2W3C	TV-2-T	2			1			INSTALL RELOCATED VEHICULAR HEAD FROM LOC. Ⓜ; MODIFY FRAMEWORK.
P										SALVAGE STD AND RELOCATE EQUIP TO LOCATION Ⓐ. SALVAGE COMBO. HEAD
Q										RELOCATE STD TO LOC. Ⓓ. SALVAGE VEHICULAR HEAD
R										RELOCATE VEHICULAR HEADS TO LOC. Ⓒ & Ⓞ
S										SALVAGE PEDESTRIAN PUSH BUTTON & POST.

1. NEW LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.
2. EXISTING SIGNS ON TRAFFIC SIGNAL STANDARDS SHALL BE RELOCATED TO NEW OR RELOCATED STANDARD AND INSTALLED AT THE SAME LOCATION, EXCEPT AS NOTED ON SHEET 10 OF 11.
3. THE RED AND YELLOW LENS FOR PV HEADS AT LOCATIONS Ⓜ AND Ⓝ SHALL BE CHANGED TO ARROW LENS.
4. ALL LEFT TURN HEADS TO BE PROVIDED ON THIS PROJECT SHALL BE 12" AND HAVE ARROW LENS.
5. CONTRACTOR TO SUPPLY REINFORCEMENT STEEL CAGE FOR CITY FURNISHED TYPE 26 STANDARDS.

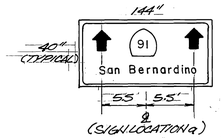


TUBULAR SIGN BRIDGE STRUCTURE

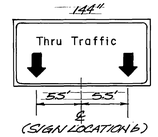
SCALE: NONE



WIRING DIAGRAM



(SIGN LOCATION a)



(SIGN LOCATION b)

(SIGN LOCATION c)

GENERAL NOTES

1. LETTERS SHALL BE 8" UPPER CASE; 6" LOWER CASE
2. COLOR IS WHITE LEGEND ON GREEN BACKGROUND
3. PLACEMENT - SIGNS SHALL BE CENTERED OVER THE APPROPRIATE LANES.

SIGN PANEL MESSAGE DETAIL

TYLER ST. AND ROUTE 91 RAMP TERMINALS

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	18	19	20
VEHICLE HEADS	#12	TW																				
2					3	3																
1+2 (OL)					5		5	5														
1+2+3 (OL)					3				3	3		3	3									
2+3 (OL)					3				3	3												
3+4 (OL)				3	6																	
1					6				6	6	3	3	3									
3				3	6		3	3	3													
4					3				3	3	3											
1+4 (OL)					3	3																
PEDESTRIAN HEADS																						
1					2	2	2	2														
3				2	6				4	4	2	2	2									
PED. PUSH BUTTON																						
1					2	2	1	1														
3				1	6				4	4	1	2	1									
SPARES			3	3	9	3	3	3	3	3	3	3	3									
TOU PPB COMMON				1	3	1	1	1	1	1	1	1	1									
DET. CABLES	#12	PE																				
1			2	2	4	2	2	2														
2				1	1																	
3					7				7	6	4	2			2							
4					4				4	2		2	2									
T.P.O. PPB EMPT	#14	TW			2				2	2	2			2	2							
T.P.O. COMMON	#10			1	3	1	1	1	1	1	1	1	1									
LUMIN. STRT.				2		2																
LUMINAIRES	#8	THW		2		2			2	2	2	2	2									
SIGN (OPTIONAL)			2																			
SIGNAL SERVICE				2	2																	
INT. CABLE	#14	PE			1						1			1	1	1						
MASTER INT. CABLE	#14				1						1			1	1	1						
TOTALS	#14		3	13	68	23	15	15	27	27	15	16	15	2	2							
	#12		2	3	16	2	2	2	11	8	4	4	2									
	#10			3	3	3	1	1	1	1	1	1	1									
	#8		2	4	2	2			2	2	2	2	2									
	#14 PR				1									1	1							
	#14 TW				1						1			1	1							
CONDUIT SIZE			2"	3"	2-3"	2"	1½"	1½"	3"	3"	2½"	2½"	2½"	2"	2"	1½"						
			(E)	(E)	(N)	(E)	(E)	(E)	(N)	(N)	(N)	(E)	(E)	(N)	(N)	(E)						

E = EXISTING CONDUIT
N = NEW CONDUIT

(OL) = OVERLAP PHASES

NOTE: THE CONTRACTOR SHALL MATCH THE COLORS OF THE 19 Ga. INTERCONNECT CABLE CONDUCTORS TO EXISTING; CONTACT THE CITY FOR THIS INFORMATION.

TYLER ST. AND INDIANA AVE.

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	18	19	20
VEHICLE HEADS	#12	TW																				
1			5	3	3	3	6		3													
2							6		3													
4							6		3													
6			3	3	3	3	3															
8				3	3	3	6															
PEDESTRIAN HEADS																						
1							4															
5			2	2	2	2	2															
8					2	2	2															
PED. PUSH BUTTON																						
1							2	1	1													
6				1	2	2	2															
8						1	2															
SPARES			3	3	3	3	10	3	3													
TOU PPB COMMON				1	1	1	3	1	1													
DET. CABLES	#12	PE																				
1						1	1															
2							4		4													
4				1	1	1	1															
6						2	2															
8							2	2														
T.P.O. PPB EMPT	#14	TW	2	2	2	2	2															
T.P.O. COMMON	#10		1	1	1	1	2	1	1													
LUMINAIRES	#8		2	2	2	2			2													
SIGNAL SERVICE							4															
INT. CABLE	#14 PR	PE					1															
MASTER INT. CABLE	#14 PR						1															
TOTALS	#14		13	19	21	21	52	5	16													
	#12			1	1	4	10	4	4													
	#10		1	1	1	1	2	1	1													
	#8		2	2	2	2	2		2													
	#14 PR						1															
	#14 TW						1															
CONDUIT SIZE			2"	2½"	2½"	3"	3½"	2"	2½"													
			(E)	(E)	(E)	(N)	(N)	(N)	(E)													

E = EXISTING CONDUIT
N = NEW CONDUIT

GENERAL NOTES:

1. ALL ELECTRICAL SYSTEMS SHALL HAVE NEW CONDUCTORS EXCEPT WHERE INDICATED OTHERWISE.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY [illegible] DRAWN BY [illegible] CHECKED BY D. Roy

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION	5/31/85	[illegible]
CHIEF P. W. ENGINEER		
PUBLIC UTILITIES ELEC.	6/3/85	[illegible]

APPROVED BY William D. Sanders
PUBLIC WORKS DIRECTOR
DATE JUNE 3, 1985

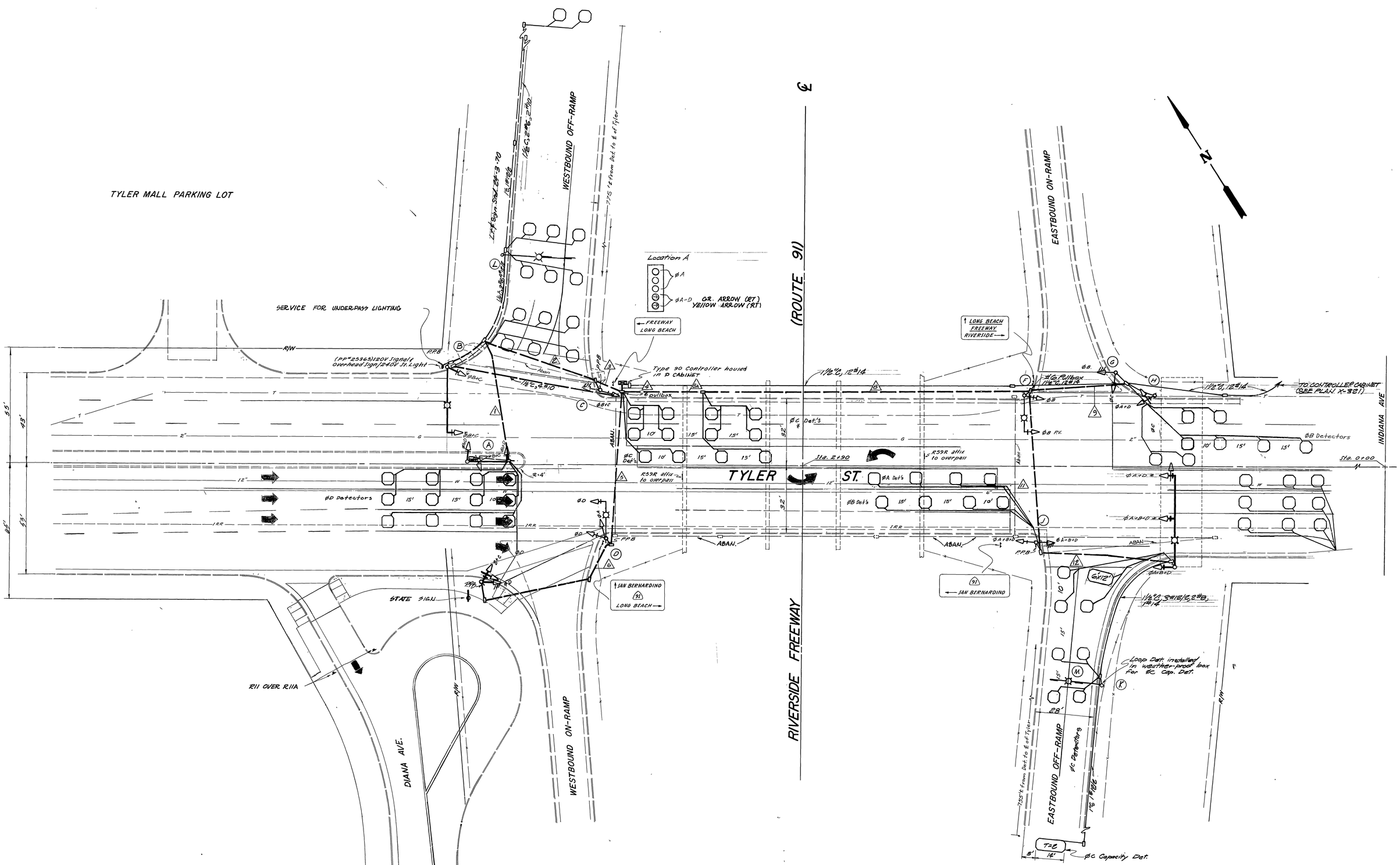
TRAFFIC SIGNAL MODIFICATIONS
TYLER STREET WIDENING AND MEDIAN RELOCATION
PHASE II
BETWEEN INDIANA AVENUE AND 1000' NORTHERLY AT THE TYLER MALL ENTRANCE

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

ACCOUNT NO. 30-575-207-07

X-320

SHEET 2 OF 2



MARK	REVISIONS	APPR.	DATE
	AS BUILT PER CONT. TE-79-3	MW	9-11-81
	AS Built per W/B off ramp widening	M-L	7-11-80
*	AS BUILT		11-11-77
	AS BUILT DIANA MODIFICATION		7-22-77
	AS BUILT (A+D) PHASING		7-22-77
	AS BUILT DIANA & TYLER (TREASURY)		7-22-77
	AS BUILT PER CONT. TE-71-3		7-22-77

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 ____

TRAFFIC SIGNALS

TYLER STREET AND RIVERSIDE FREEWAY, 91

SCALE: 1" = 20'

ACCOUNT No. 30-576-301-30
DRAWING NUMBER
X-320
SHEET 1 OF 2

Conductor Schedule

Control Function	Conductors Size	Conductors Insulation	1	2	3	4	5	6	7	8A	8	9	10	11	12	1C	
			Conduit Run														
Vehicular Heads	#14	T.W.															
ØA			3	3	3	6	3										
ØB+C			3	3	3	6	3	3	3								
ØB+C *				3	3	3											
ØD						3	3	3	3								
ØA+B+D						3				3	3			3	3		
ØA+D			2	2	2	8				6	6	3	3	3	3		
ØB						3				3	3	3					
ØC						6				6	6	3	3	3	3		
Spares						3				3	3	3	3	3	3		
Spares			3	3	3	3	3	3	3								
Ped. Push Button	#10																
ØC						2				2	2	1	1	1	1		
Detector Cable	#12/2	U.S.E. or R.H.W.															
ØA Capacity Det.				1	1	1											
ØC Capacity Det.						1				1	1			1	1		
ØA				1*	1*	2*				1	1			1			
ØB						3				3	3	2	2	1			
ØC						5*				5*	2			2	2		
ØD			3	4*	4*	4*				2							
12V Common	#10	T.W.				1				1	1	1	1	1	1		
120V Common	#8		1	1	1	1	1	1	1	1	1	1	1	1	1		
Luminaires				2	2		2			2	2			2	2		
Signal Service				2	2	2											
Interconnect	#7/18	P.E.		1	1	1										1	
Totals	#14	T.W.	9	12	12	21	12	9	9								
	#12/2	U.S.E. or R.H.W.	3	7	6	6	16			10	7	2	2	5	3		
	#12	T.W.															
	#10					24				24	24	14	11	14	14		
	#8		1	5	5	3	3	1	1	3	3	1	1	3	3		
	#7/18	P.E.	1	1	1											1	
Conduit Size			2"	3"	3"	2-3"	2"	1½"	1½"	3½" or 2-2½"	3"	2"	2"	2½"	2½"	1½"	

Place all detector cable in 1 of the 3" conduits

SIGNING REQUIREMENTS (also see "Sign Location Diagram")

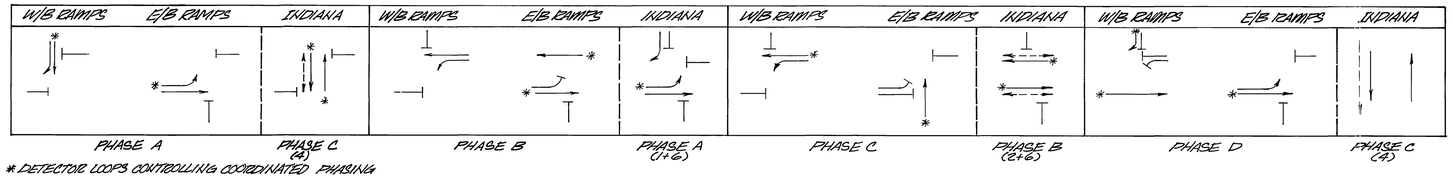
Code	Size	Mtg.	Loc.	Facing	Remarks
R53R/W7AR(Lt)	24"x24", 48"x48"	Signal Std.	A	N & S	Erect R53R to face south
R39R/R59R(Rt)	Exist.	Wood Post	a	—	Remove & salvage exist. post & signs
W41R	48"x48"	Light Std.	b	E	Erect
R1R/R1UR/R60R	Exist.	Wood Post	c	—	Remove & salvage R1R.
R16R	30"x36"	Signal Std.	C	S	Erect
R16R	Exist.	Wood Post	d	S	Remove & salvage post & sign
ⓔ R39R(Lt) Name Plate	48"x48", 42"x9"	Overpass	e	N	Affix to side of overpass. See Structure Mtg. Detail.
R53R	24"x24"	Signal Std.	E	S	Erect
ⓕ Guide	Exist.	2-Wood Post	f	E	Replace with new panel & relocate 10'-20' north
ⓖ R59R(Lt)	42"x42"	Overpass	g	S	Affix to side or overpass. See Structure Mtg. Detail.
Guide	Exist.	2-Wood Post	h	S	Remove & salvage sign & post
R53R	24"x24"	Signal Std.	H	N	Erect
R39R (special)	36"x22"	OH Signal Std.	I	N	Erect, See Detail ES-14-5
W41R	48"x48"	Wood Post	i	S	Erect
R1R/R1UR(Lt)	Exist.	Wood Post	j	—	Remove & salvage R1R & relocate post w/R1UR
R16R	30"x36"	Signal Std.	J	N	Erect
W41R	48"x48"	Light Std.	k	W	Remove exist. W17R & post & erect walk on Std.
R1R/R1UR(Rt)	Exist.	Wood Post	l	—	Remove & salvage R1R & relocate post w/R1UR
R59R(Rt)	42"x90"	OH Std.	L_1	E	Erect, See Detail - Location L & M
R60R	42"x90"	OH Std.	L_2	E	Erect, See Detail - Location L & M
R59R(Lt)	42"x90"	OH Std.	M_1	W	Erect, See Detail - Location L & M
R60R	42"x90"	OH Std.	M_2	W	Erect, See Detail - Location L & M
Guide	Exist.	2-Wood Post	m	N	Relocate sign & posts 10' to 20' south
R16R	Exist.	Wood Post	n	N	Remove & salvage R16R & post
Guide	Exist.	2-Wood Post	o	N	Relocate sign & posts 4± West
R1R/R1UR(Rt)	Exist.	Wood Post	p	—	Remove & salvage sign & post
R1BR(Rt)	Exist.	Wood Post	q	E	Remove & salvage sign & post
R1R/R6BR	Exist.	Wood Post	r	W	Relocate sign & post 10'-20' west
ⓢ R6BR(special)	—	Wood Post	s	N	Erect
ⓣ R6BR(special)	—	Wood Post	t	N	Erect
ⓤ R6BR(special)	—	Overpass	u	N	Affix to side of overpass, See Structure Mtg. Detail
ⓥ Guide	—	2-Wood Post	v	S	Erect

Equipment Schedule

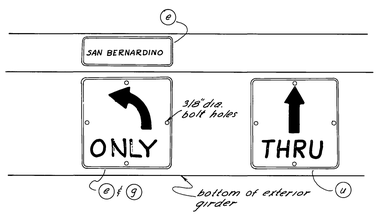
Location	Standard	Vehicle Equipment Heads	Mtg.'t	Ped. Mtg.'t	Louver	Ped. Equipment Heads	Mtg.'t	PPB's	Luminaire Wattage	Remarks
A	Type I	* 1W3C(12")	A-4							
		1W3C(12")		1						
B	Type XII	* 1W3C(12")	M-2						400W	Remove & salvage exist. steel std. & luminaire.
		1W3C	B-1	1						
C	Type I	2W3C	A-4	1						
D	Type XVII	1W3C(12")	M-2	1					400W	Remove & salvage exist. steel std. & luminaire.
	18' M.A.	2W3C	B-2	1						
E	Type I	1W3C(R),12"(A)	A-4		3(8")					
		1W3C							400W	Remove & salvage existing steel std. & luminaire.
F	Type XII	1W3C(12")	M-2	1						
	18' M.A.	2W3C	B-2	1						
G	Type I	1W3C(12")	A-4	1	3(8")					
		1W3C							400W	
H	Type I	1W3C(R),12"(A)	A-4		3(8")			1		
		1W3C								
I	Type XII	* 1W3C(12")	M-2					1		
		*1W3C(12")	M-2							
		2W3C	B-2	1						
J	Type I	2W3C	A-4	1						
K										Remove & salvage exist. steel std. & luminaire.
L	Special Std.								1000W	See detail for type of std. & additional data.
M	Special Std.								1000W	See detail for type of std. & additional data.

* Programmed Visibility signal heads and Type I stds will be City furnished.

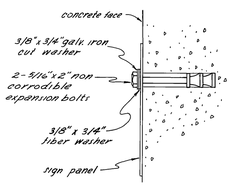
TYLER ST - RIVERSIDE FRWY 91 AND INDIANA AVENUE COORDINATION OPERATION



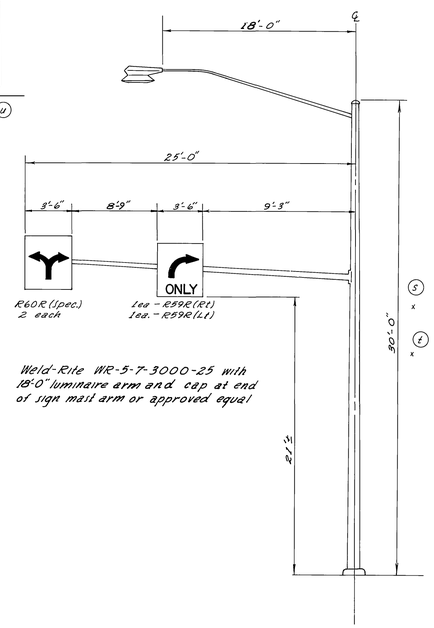
* DETECTOR LOOPS CONTROLLING COORDINATED PHASING



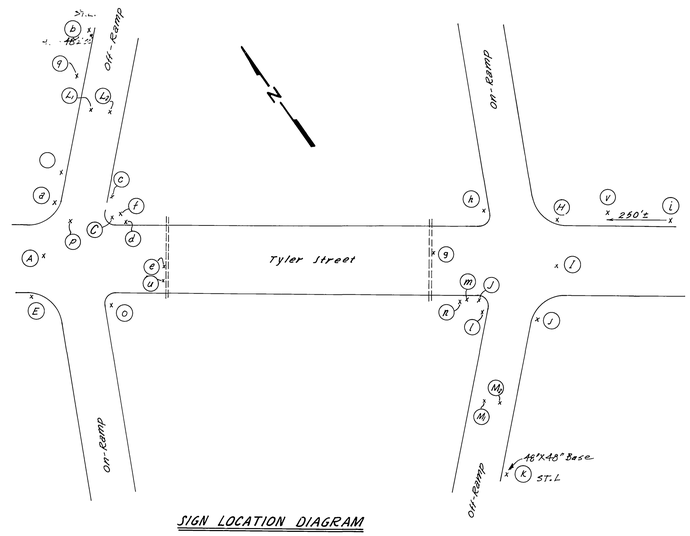
DETAIL OF OVERPASS SIGNING



STRUCTURE MOUNTING DETAILS
(for signs mounted on side of overpass)

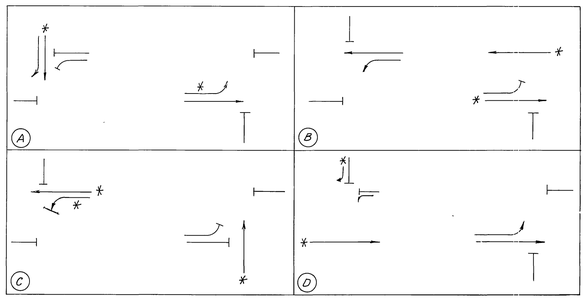


DETAIL - LOCATION L & M
No Scale



SIGN LOCATION DIAGRAM

Phase Diagram



Flashing Indication: All phase: - Red

* Detector controlling phase length

MARK	REVISIONS	APPR.	DATE
*	As Built Ltr.		8-18-77
	As Built A+D (PHASING)		
	As Built per Cont. TE-71-3 W.J.E.	P.F.B.	11-22-73

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 ____

TRAFFIC SIGNALS

TYLER STREET AND RIVERSIDE FREEWAY, 91

SCALE: NONE

ACCOUNT No. 90-876-301-30
DRAWING NUMBER X-320
SHEET 2 OF 2