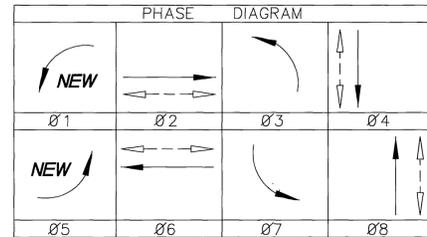


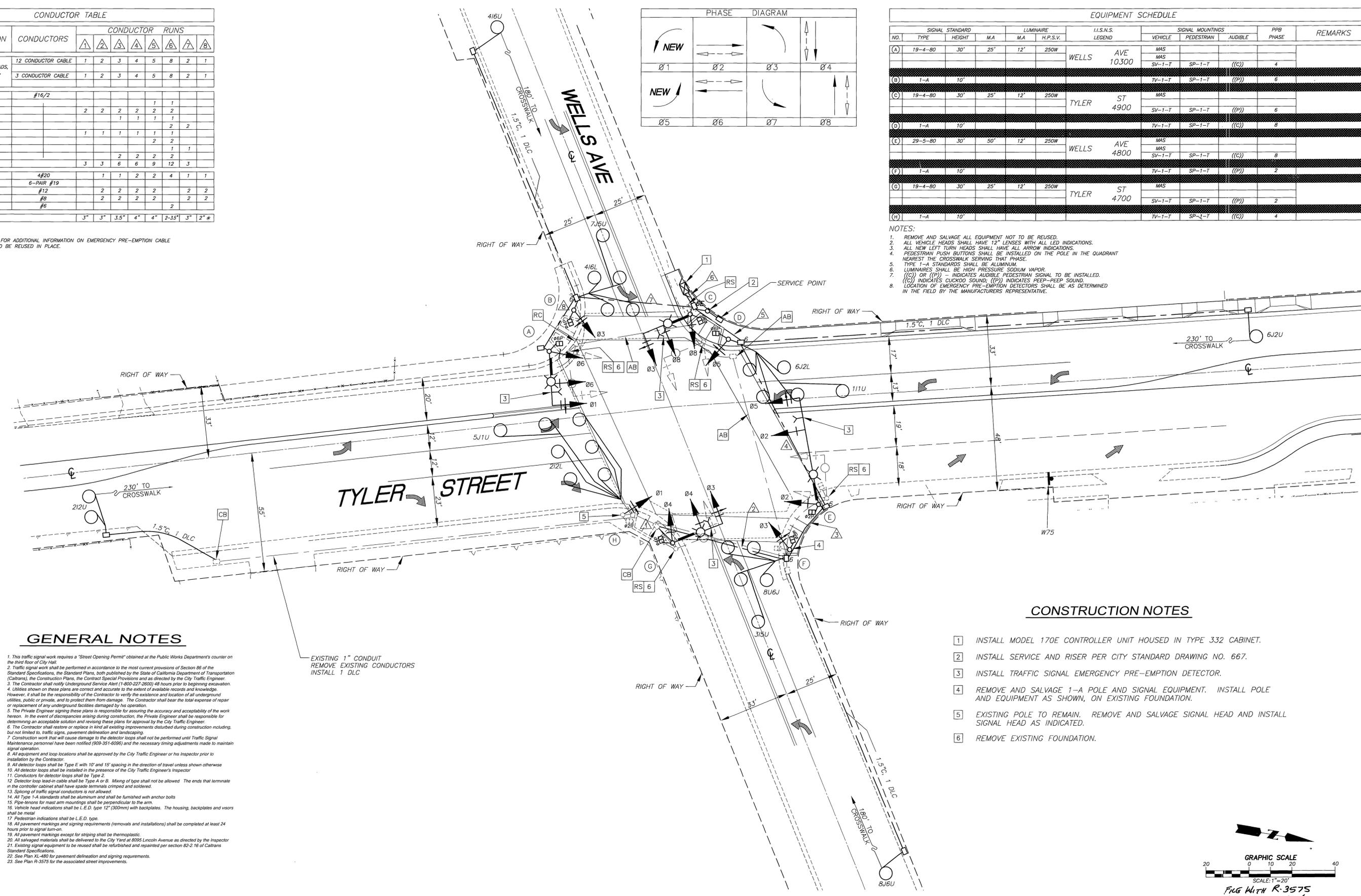
CONDUCTOR TABLE									
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	8	2	1
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES AND COMMONS	12 CONDUCTOR CABLE	1	2	3	4	5	8	2	1
	3 CONDUCTOR CABLE	1	2	3	4	5	8	2	1
DETECTOR CABLE	#16/2					1	1		
PHASE 1									
PHASE 2		2	2	2	2	2	2		
PHASE 3		1	1	1	1	1	1		
PHASE 4							2	2	
PHASE 5		1	1	1	1	1	1	1	
PHASE 6							2	2	
PHASE 7							1	1	
PHASE 8				2	2	2	2		
TOTAL		3	3	6	6	9	12	3	
PRE-EMPTION CABLE	#20	1	1	2	2	4	1	1	
INTERCONNECT CABLE	6-PAIR #19								
I.L.S.N.S.	#12	2	2	2	2	2	2	2	
LUMINAIRES	#8	2	2	2	2	2	2	2	
SIGNAL SERVICE	#6								
CONDUIT SIZE		3"	3"	3.5"	4"	4"	2-1.5"	3"	2"*

NOTE:
 1. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON EMERGENCY PRE-EMPTION CABLE
 2. * = EXISTING CONDUIT TO BE REUSED IN PLACE.



EQUIPMENT SCHEDULE											
NO.	TYPE	SIGNAL STANDARD	HEIGHT	M.A.	LUMINAIRE	H.P.S.V.	I.L.S.N.S. LEGEND	SIGNAL MOUNTINGS			REMARKS
								VEHICLE	PEDESTRIAN	AUDIBLE	
(A)	19-4-80	30'	25'	12'	250W		WELLS AVE 10300	MAS			
								SV-1-T	SP-1-T	((C))	4
(B)	1-A	10'						TV-1-T	SP-1-T	((P))	6
(C)	19-4-80	30'	25'	12'	250W		TYLER ST 4900	MAS			
								SV-1-T	SP-1-T	((P))	6
(D)	1-A	10'						TV-1-T	SP-1-T	((C))	8
(E)	29-5-80	30'	50'	12'	250W		WELLS AVE 4800	MAS			
								SV-1-T	SP-1-T	((C))	8
(F)	1-A	10'						TV-1-T	SP-1-T	((P))	2
(G)	19-4-80	30'	25'	12'	250W		TYLER ST 4700	MAS			
								SV-1-T	SP-1-T	((P))	2
(H)	1-A	10'						TV-1-T	SP-1-T	((C))	4

NOTES:
 1. REMOVE AND SALVAGE ALL EQUIPMENT NOT TO BE REUSED.
 2. ALL VEHICLE HEADS SHALL HAVE 12" LENSES WITH ALL LED INDICATORS.
 3. ALL NEW LEFT TURN HEADS SHALL HAVE ALL ARROW INDICATORS.
 4. PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THAT PHASE.
 5. TYPE 1-A STANDARDS SHALL BE ALUMINUM.
 6. LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.
 7. ((C)) OR ((P)) - INDICATES AUDIBLE PEDESTRIAN SIGNAL TO BE INSTALLED.
 8. ((C)) INDICATES CLICKOOP SOUND; ((P)) INDICATES PEEP-PEEP SOUND.
 9. LOCATION OF EMERGENCY PRE-EMPTION DETECTORS SHALL BE AS DETERMINED IN THE FIELD BY THE MANUFACTURER'S REPRESENTATIVE.

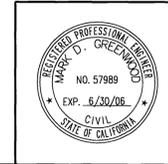


GENERAL NOTES

- This traffic signal work requires a "Street Opening Permit" obtained at the Public Works Department's counter on the third floor of City Hall.
- Traffic signal work shall be performed in accordance to the most current provisions of Section 85 of the Standard Specifications, the Standard Plans, both published by the State of California Department of Transportation (Caltrans), the Construction Plans, the Contract Special Provisions and as directed by the City Traffic Engineer.
- The Contractor shall notify Underground Service Alert (1-800-227-2600) 48 hours prior to beginning excavation.
- Utilities shown on these plans are correct and accurate to the extent of available records and knowledge. However, 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 operation.
- The Private Engineer signing these plans 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 these plans for approval by the City Traffic Engineer.
- The Contractor shall restore or replace in kind all existing improvements disturbed during construction including, but not limited to, traffic signs, pavement delineation and landscaping.
- Construction work that will cause damage to the detector loops shall not be performed until Traffic Signal Maintenance personnel have been notified (909-351-8096) and the necessary timing adjustments made to maintain signal operation.
- All equipment and loop locations shall be approved by the City Traffic Engineer or his Inspector prior to installation by the Contractor.
- All detector loops shall be Type E with 10' and 15' spacing in the direction of travel unless shown otherwise.
- All detector loops shall be installed in the presence of the City Traffic Engineer's Inspector.
- Conductors for detector loops shall be Type 2.
- Detector loop lead-in cable shall be Type A or B. Mixing of type shall not be allowed. The ends that terminate in the controller cabinet shall have spade terminals crimped and soldered.
- Splicing of traffic signal conductors is not allowed.
- All Type 1-A standards shall be aluminum and shall be furnished with anchor bolts.
- Pipe-tensons for mast arm mountings shall be perpendicular to the arm.
- Vehicle head indicators shall be L.E.D. type 12" (300mm) with backplates. The housing, backplates and visors shall be metal.
- Pedestrian indications shall be L.E.D. type.
- All pavement markings and signing requirements (removals and installations) shall be completed at least 24 hours prior to signal turn-on.
- All pavement markings except for striping shall be thermoplastic.
- All salvaged materials shall be delivered to the City Yard at 8055 Lincoln Avenue as directed by the Inspector.
- Existing signal equipment to be reused shall be refurbished and repainted per section 82-2.16 of Caltrans Standard Specifications.
- See Plan XL-480 for pavement delineation and signing requirements.
- See Plan R-3575 for the associated street improvements.

CONSTRUCTION NOTES

- INSTALL MODEL 170E CONTROLLER UNIT HOUSED IN TYPE 332 CABINET.
- INSTALL SERVICE AND RISER PER CITY STANDARD DRAWING NO. 667.
- INSTALL TRAFFIC SIGNAL EMERGENCY PRE-EMPTION DETECTOR.
- REMOVE AND SALVAGE 1-A POLE AND SIGNAL EQUIPMENT. INSTALL POLE AND EQUIPMENT AS SHOWN, ON EXISTING FOUNDATION.
- EXISTING POLE TO REMAIN. REMOVE AND SALVAGE SIGNAL HEAD AND INSTALL SIGNAL HEAD AS INDICATED.
- REMOVE EXISTING FOUNDATION.



DESIGNED BY: MG
 DRAWN BY: MG
 CHECKED BY: SJH
 PLANS PREPARED UNDER THE SUPERVISION OF:
 DATE: 9/12/03
 MARK GREENWOOD RCE 57989

AEI-CASC ENGINEERING
 937 SOUTH VIA LATA SUITE 500 COLTON, CA 92324
 PH. (909) 783-0101 FAX (909) 783-0108

Underground Service Alert
 Call: TOLL FREE 1-800-227-2600
 TWO WORKING DAYS BEFORE YOU DIG

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA
 PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 DATE: 12/12/03

TRAFFIC SIGNAL MODIFICATION
TYLER STREET AND WELLS AVENUE
 SCALE: 1" = 20'

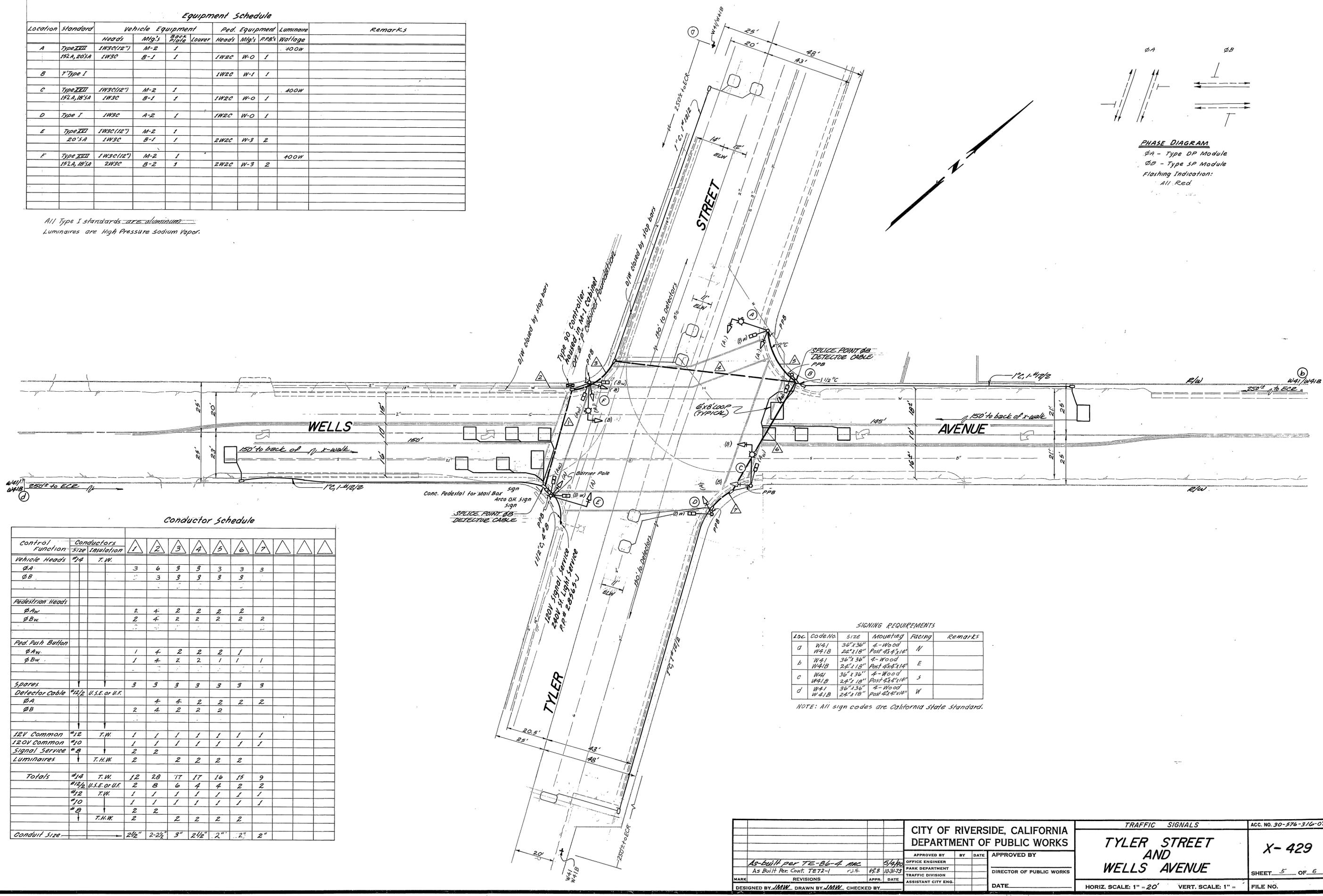
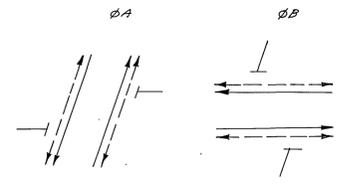
ACT. NO. 000-00000-00000-00000
X-429A
 SHEET 1 OF 1
 FILE NO.

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Equipment Schedule

Location	Standard	Vehicle Equipment			Ped. Equipment			Luminaire	Remarks
		Heads	Mfg's	Qty's	Lower	Heads	Mfg's		
A	Type III 1FLA, 20SA	1W3C(12")	M-2	1	1W2C	W-0	1	400W	
B	Type I				1W2C	W-1	1		
C	Type III 1FLA, 18SA	1W3C(12")	M-2	1	1W2C	W-0	1	400W	
D	Type I	1W3C	A-2	1	1W2C	W-0	1		
E	Type III 20SA	1W3C(12")	M-2	1	2W2C	W-3	2		
F	Type III 1FLA, 18SA	1W3C(12")	M-2	1	2W2C	W-3	2	400W	

All Type I standards are aluminum.
Luminaires are High Pressure Sodium Vapor.



Conductor Schedule

Control Function	Conductors		Conductor Schedule								
	Size	Insulation	1	2	3	4	5	6	7	8	9
Vehicle Heads	φA	T.W.	3	6	3	3	3	3	3	3	
	φB			3	3	3	3	3			
Pedestrian Heads	φAw		2	4	2	2	2	2	2		
	φBw		2	4	2	2	2	2	2		
Ped. Push Button	φAw		1	4	2	2	2	1			
	φBw		1	4	2	2	1	1	1		
Spares			3	3	3	3	3	3	3		
Detector Cable	#12 U.S.E. or U.F.			4	4	2	2	2	2		
	φA										
	φB		2	4	2	2	2				
12V Common	#12 T.W.		1	1	1	1	1	1	1		
120V Common	#10 T.W.		1	1	1	1	1	1	1		
Signal Service	#8		2	2							
Luminaires	T.H.W.		2		2	2	2	2			
Totals	#14 T.W.		12	28	17	17	16	15	9		
	#12 U.S.E. or U.F.		2	8	6	4	4	2	2		
	#12 T.W.		1	1	1	1	1	1	1		
	#10 T.W.		1	1	1	1	1	1	1		
	#8 T.H.W.		2	2							
Conduit Size			2 1/2"	2-2 1/2"	3"	2 1/2"	2"	2"	2"		

SIGNING REQUIREMENTS

Loc	Code No.	Size	Mounting	Facing	Remarks
a	W41	36"x36"	4-Wood	N	
	W41B	24"x18"	Post 4x4x14"	N	
b	W41	36"x36"	4-Wood	E	
	W41B	24"x18"	Post 4x4x14"	E	
c	W41	36"x36"	4-Wood	S	
	W41B	24"x18"	Post 4x4x14"	S	
d	W41	36"x36"	4-Wood	W	
	W41B	24"x18"	Post 4x4x14"	W	

NOTE: All sign codes are California State Standard.

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		TRAFFIC SIGNALS	ACC. NO. 30-576-316-07
As-built per TE-86-4 MAC As Built Per Cont. TE72-1		APPROVED BY OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENG.	APPROVED BY DIRECTOR OF PUBLIC WORKS
DESIGNED BY JMW	DRAWN BY JMW	CHECKED BY	DATE
TYLER STREET AND WELLS AVENUE		X-429	
HORIZ. SCALE: 1" = 20'		VERT. SCALE: 1" =	
SHEET 5 OF 6		FILE NO.	