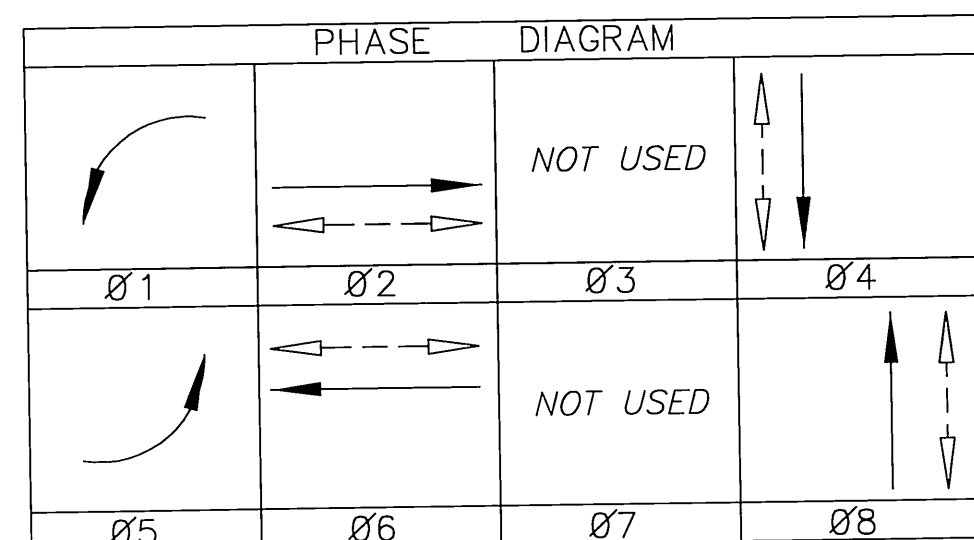


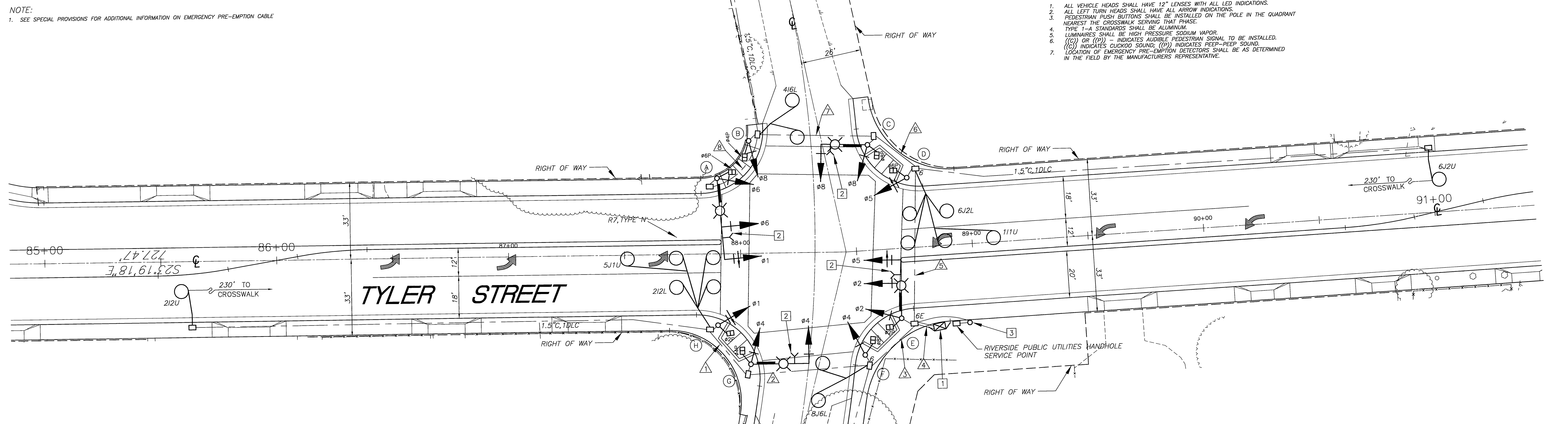
CONDUCTOR TABLE									
CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES AND COMMONS	12 CONDUCTOR CABLE	1	2	3	4	5	6	7	8
	3 CONDUCTOR CABLE	1	2	3	4	5	6	7	8
DETECTOR CABLE	#16/2								
PHASE 1									
PHASE 2		2	2	2	2				
PHASE 3									
PHASE 4						2	2	2	2
PHASE 5		1	1	1	1				
PHASE 6						2	2		
PHASE 7									
PHASE 8						2	2		
TOTAL		3	3	5	10	5	2	2	
PRE-EMPTION CABLE	#20					1	1	4	2
INTERCONNECT CABLE	6-PAIR #19					2	2	2	2
I.L.S.N.S.	#12					2	2	2	2
LUMINAIRE	#8					2	2	2	2
SIGNAL SERVICE	#6					2			
CONDUIT SIZE		3"	3"	3.5"	2-3.5"	4"	3.5"	3"	3"



EQUIPMENT SCHEDULE											
NO.	SIGNAL STANDARD			LUMINAIRE			I.L.S.N.S. LEGEND	SIGNAL MOUNTINGS			REMARKS
	TYPE	HEIGHT	M.A.	M.A.	H.P.S.V.	VEHICLE		PEDESTRIAN	AUDIBLE	PPB PHASE	
(A)	24-4-80	30'	35'	12'	250W	GRAMERCY PL 10300	MAS				4
							MAS	SV-1-T	SP-1-T	(C)	
(B)	1-A	10'						TV-1-T	SP-1-T	(P)	5
(C)	17-2-80	30'	20'	12'	250W	TYLER ST 5300	MAS				
							MAS	SV-1-T	SP-1-T	(P)	6
(D)	1-A	10'						TV-1-T	SP-1-T	(C)	8
(E)	19-4-80	30'	25'	12'	250W	GRAMERCY PL 10200	MAS				
							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 5200	MAS				
							MAS	SV-1-T	SP-1-T	(P)	2
(H)	1-A	10'						TV-1-T	SP-1-T	(C)	4

NOTES:

- ALL VEHICLE HEADS SHALL HAVE 12" LENSES WITH ALL LED INDICATORS.
- ALL LEFT TURN HEADS SHALL HAVE ALL ARROW INDICATORS.
- PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THAT PHASE.
- TYPE 1-A STANDARDS SHALL BE ALUMINUM.
- LUMINAIRE SHALL BE HIGH PRESSURE SODIUM VAPOR.
- (C) OR (P) - INDICATES AUDIBLE PEDESTRIAN SIGNAL TO BE INSTALLED.
- (C) INDICATES CUCKOO SOUND; (P) INDICATES PEEP-PEEP SOUND.
- LOCATION OF EMERGENCY PRE-EMPTION DETECTORS SHALL BE AS DETERMINED IN THE FIELD BY THE MANUFACTURERS REPRESENTATIVE.

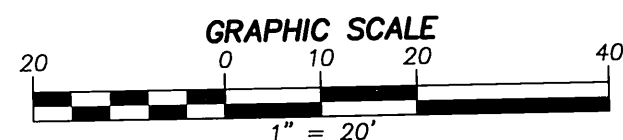


GENERAL NOTES

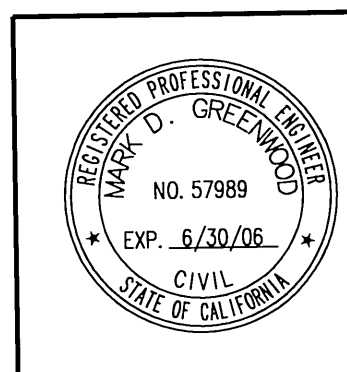
- This traffic signal work requires a "Street Opening Permit" obtained at the Public Works Department's counter on the third floor of City Hall.
- Traffic signal work shall be performed in accordance to the most current provisions of Section 88 of the Standard Specifications, the Standard Plans, both 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.
- Unless 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 (909-351-6096) 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-tensors 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 indicators 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 8095 Lincoln Avenue as directed by the Inspector.
- Existing signal equipment to be reused shall be refurbished and repaired per section 62-2.16 of Caltrans Standard Specifications.
- See Plan XL- 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 TRAFFIC SIGNAL EMERGENCY PRE-EMPTION DETECTOR.
- INSTALL SERVICE AND RISER PER CITY STANDARD DRAWING NO. 667.



FILE WITH R-3575



DESIGNED BY: MG
 DRAWN BY: MG
 CHECKED BY: SJH
 PLANS PREPARED UNDER THE SUPERVISION OF:
 DATE: 10/15/03
 MARK GREENWOOD ROE 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

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT
 APPROVED BY: [Signature]
 DEPUTY P.W. DIRECTOR
 TRAFFIC ENGINEER
 INSPECTOR
 STREET SERVICES

TRAFFIC SIGNAL INSTALLATION
TYLER STREET AND GRAMERCY PLACE
 SCALE: 1" = 20'

ACCT. NO. 000-00000-00000-00000
X-514
 SHEET 1 OF 1
 FILE NO.
 INDEXED E-29-04 4H