

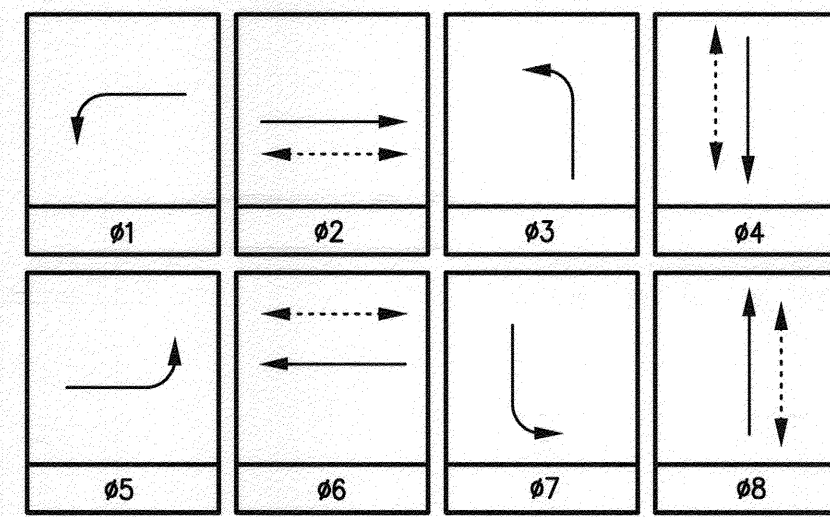
CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS							
		1	2	3	4	5	6	7	8
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CSC	1	2	3	4	8	3	2	1
	3 CSC	1	2	3	4	8	3	2	1
DETECTOR CABLE	TYPE B								
PHASE 1						2	2	2	2
PHASE 2					3	3			
PHASE 3			2	2	2	2			
PHASE 4					2	2			
PHASE 5					2	2			
PHASE 6					3	3	3	3	
PHASE 7					2	2			
PHASE 8			4	4	4	4			
TOTALS			6	6	11	20	9	5	5
I.I.S.N.S.	#12	2	2	2	2	2	2	2	
LUMINAIRES	#5	2	2	2	2	2	2	2	
SIGNAL SERVICE	#6					2			
VEHICLE PREEMPTION	#20/3					4	2	2	

CONDUIT SIZE	2"	3" (N)	3" (N)	3" (N)	2-4" (N)	3"	3"	3"
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** ALL CONDUIT IS EXISTING UNLESS SHOWN OTHERWISE. ALL CONDUCTORS SHALL BE NEW. (N) = NEW

PHASE DIAGRAM



**FLASH OPERATION SHALL BE ALL RED.

EQUIPMENT SCHEDULE

No.	TYPE	STANDARD				LUMINAIRE L.E.D.	IISNS LEGEND	SIGNAL MOUNTING			PPB PHASE	REMARKS	
		HGT.	SIG.	M.A.	LUM. M.A.			VEHICLE	PED	AUDIBLE			
(A)	19-4-80	30'	25'	12'	250W (N)	Jackson	St 3400	2-MAS	SV-1-T	SP-1-T	((C))	4(N)	REPLACE PPB & ALL LENSES WITH L.E.D.
(B)	1A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((P))	6(N)	REPLACE PPB & ALL LENSES WITH L.E.D.
(C)	24-4-70	30'	35'	12'	250W (N)	Indiana	Ave 9000	2-MAS	SV-1-T	SP-1-T	((P))	6(N)	REPLACE PPB & ALL LENSES WITH L.E.D.
(D)	1A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((C))	8(N)	REPLACE PPB & ALL LENSES WITH L.E.D.
(E)	19-4-80	30'	25'	12'	250W (N)	Jackson	St 3300	2-MAS	SV-1-T	SP-1-T	((C))	8(N)	REPLACE PPB & ALL LENSES WITH L.E.D.
(F)	1A	10'	-	-	-	-	-	-	TV-1-T	SP-1-T	((P))	2(N)	REPLACE PPB & ALL LENSES WITH L.E.D.
(G)	19A-4-100(N)	30'	35'	12'	250W (N)	Indiana	Ave 9100	2-MAS(RL)	SV-1-T(RL)	SP-1-T(RL)	((P))	2(N)	RELOCATE EQUIPMENT. REPLACE PPB & LENSES W/ L.E.D.
(H)	1A (RL)	10'	-	-	-	-	-	-	TV-1-T(RL)	SP-1-T(RL)	((C))	4(N)	RELOCATE POLE & EQUIPMENT. REPLACE PPB & LENSES W/ L.E.D.

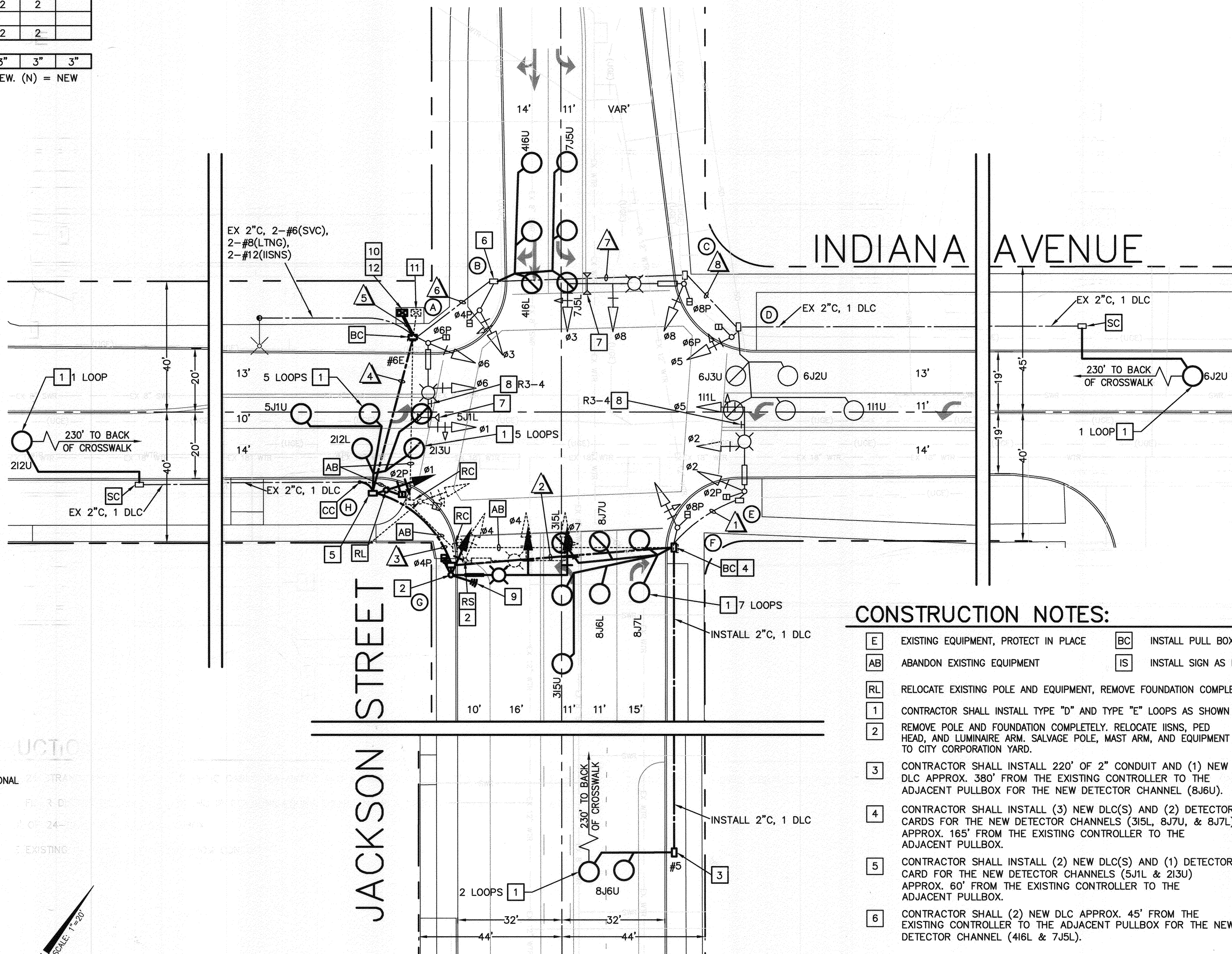
PEDESTRIAN AUDIBLES: C=CUCKOO (NORTH/SOUTH), P=PEEP PEEP (EAST/WEST)
 ALL EQUIPMENT IS EXISTING UNLESS SHOWN OTHERWISE. (N)=NEW / (RL)=RELOCATE

- ALL VEHICULAR HEADS SHALL HAVE 12" NEW LED LENSES.
- PEDESTRIAN PUSH BUTTONS SHALL BE NEW AND INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
- CONTRACTOR SHALL POT-HOLE MAST ARM POLE FOUNDATIONS PRIOR TO ORDERING POLES AND MAST ARMS.
- ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN HEADS.
- ALL LEFT TURN VEHICLE HEADS SHALL HAVE ALL ARROWS.
- ALL EXISTING IISNS LIGHTING ASSEMBLIES SHALL BE REPLACED WITH NEW LED RETROFIT KIT ASSEMBLIES.

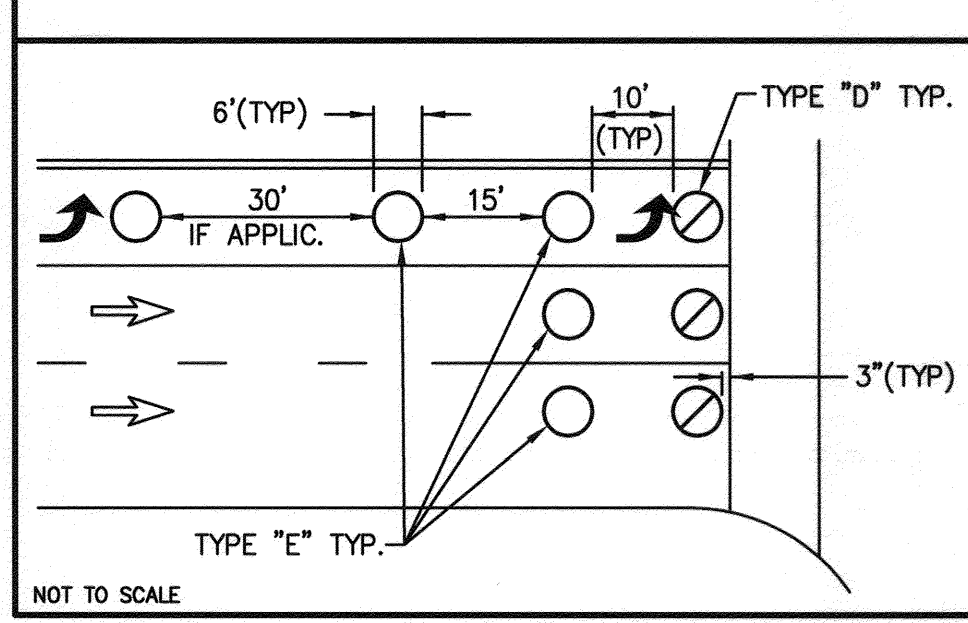
TRAFFIC SIGNAL GENERAL NOTES:

- ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2012; AND THE SPECIAL PROVISIONS.
- UTILITIES SHOWN ON THE PLAN ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE STEPS TO ASCERTAIN THE EXACT LOCATION OF ALL KNOWN SUBSTRUCTURES PRIOR TO DOING WORK THAT MAY DAMAGE OR INTERFERE WITH SUCH FACILITIES (*UNDERGROUND SERVICE ALERT* (800) 227-2600)
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO NOTIFY ALL AFFECTED AGENCIES AND THE RIVERSIDE UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION.
- UNLESS SHOWN OTHERWISE, INDUCTIVE LOOPS SHALL BE MODIFIED TYPE "D" & TYPE "E" WITH 10', 15' AND 30' SPACING IN THE DIRECTION OF TRAVEL. NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING LOOPS. LOOPS SHALL BE SEALED WITH HOT MELT SEALANT. SEE DETAIL.
- CONDUCTOR SCHEDULE IS FURNISHED AS AN INSTALLATION GUIDELINE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CORRECT CONDUCTORS REQUIRED FOR THE INTENDED OPERATION.
- CONDUIT BETWEEN ADJOINING PULL BOXES SHALL BE 2" UNLESS SHOWN OTHERWISE. ALL CONDUIT AND FITTINGS SHALL BE RIGID METAL, UNLESS SHOWN OTHERWISE (BURIED IN A MINIMUM OF 30" OF COVER IN THE STREET AND PARKWAY).
- UNDERGROUND SIGNAL CONDUCTORS SHALL NOT BE SPLICED.
- PULL BOXES SHALL BE No. 6 WITH FIBERLITE LIDS LABELED "TRAFFIC SIGNAL" UNLESS OTHERWISE NOTED ON THE PLAN.
- PULL BOXES SHALL NOT BE LOCATED IN OR WITHIN 1' OF ANY CURB ACCESS RAMP OR DRIVEWAY.
- THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE PRECISE FIELD LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO THE INSTALLATION. SHALL VERIFY SIGNAL POLE BOLT CONFIGURATIONS WITH TRAFFIC SIGNAL SHOP PRIOR TO THE INSTALLATION (951-826-6098).
- ALL LANDSCAPING WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE CITY AND THE PROPERTY OWNER.
- VEHICLE HEADS SHALL BE 12" LED TYPE. THE HOUSING, BACKPLATES AND VISORS SHALL BE METAL.
- INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) SHALL BE TYPE A. STREET NAME LEGENDS SHALL BE UPPER/LOWER CASE AND SHALL INCLUDE BLOCK NUMBERS AND ROAD NAME SUFFIXES.
- SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CITY OF RIVERSIDE TRAFFIC SIGNAL MAINTENANCE YARD.
- DAMAGED SIDEWALK CONCRETE SHALL BE REPLACED PER CITY OF RIVERSIDE STANDARD.
- THE CONTRACTOR SHALL REMOVE ALL UNUSED PULL BOXES AND RE-PAVE SURROUNDING AREA TO MATCH EXISTING OR PROPOSED GRADE. ALL UNUSED CONDUIT SHALL BE ABANDONED AND CAPPED ONCE UNUSED CONDUCTORS ARE REMOVED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FURNISH AND INSTALL ANY ADDITIONAL LOAD SWITCHES AND/OR DETECTOR CARDS, IF NECESSARY, FOR THE PROPOSED OPERATION.
- ALL CONTRACTORS WORKING ON OR AROUND THE CITY OF RIVERSIDE'S UNDERGROUND ELECTRICAL FACILITIES MUST HAVE THE PROPERLY QUALIFIED PERSONNEL AND EQUIPMENT TO PERFORM THE SPECIFIED WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO ESTABLISH AND MAINTAIN A SAFE WORKING ENVIRONMENT INCLUDING, BUT NOT LIMITED TO WORK AROUND ENERGIZED HIGH VOLTAGE FACILITIES, GAS TESTING OF CONFINED SPACES, TRAFFIC AND PROTECTION.

EVERY ENTRY BY ANY PERSONNEL INTO A PUBLIC UTILITIES HIGH VOLTAGE STRUCTURE WILL REQUIRE THE PRESENCE OF A QUALIFIED ELECTRICAL WORKER IN ACCORDANCE WITH Cal/OSHA. ALL DEVELOPERS AND CONTRACTORS ARE REQUIRED TO SUBMIT REQUIRED DOCUMENTATION AND FOLLOW REQUIRED PROCEDURES. COPIES OF THE POLICY AND DOCUMENTS MAY BE OBTAINED AT 3901 ORANGE ST. RIVERSIDE, CA OR AT www.RIVERSIDEPUBLICUTILITIES.COM

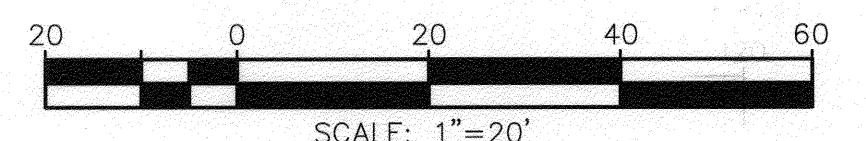


TYPICAL LOOP DETECTOR LAYOUT



CONSTRUCTION NOTES:

- | | | |
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| (E) EXISTING EQUIPMENT, PROTECT IN PLACE | (BC) INSTALL PULL BOX IN EXISTING CONDUIT RUN | (RS) REMOVE AND SALVAGE EXISTING EQUIPMENT |
| (AB) ABANDON EXISTING EQUIPMENT | (IS) INSTALL SIGN AS NOTED | (SC) SPLICE NEW TO EXISTING CONDUCTORS |
| (RL) RELOCATE EXISTING POLE AND EQUIPMENT, REMOVE FOUNDATION COMPLETELY | (7) EXISTING EVP EQUIPMENT | |
| (1) CONTRACTOR SHALL INSTALL TYPE "D" AND TYPE "E" LOOPS AS SHOWN ON PLAN. | (8) INSTALL MAST ARM SIGN AS NOTED | |
| (2) REMOVE POLE AND FOUNDATION COMPLETELY. RELOCATE IISNS, PED HEAD, AND LUMINAIRE ARM. SALVAGE POLE, MAST ARM, AND EQUIPMENT TO CITY CORPORATION YARD. | (9) THE CONTRACTOR SHALL PROVIDE AND INSTALL A MOTOROLA POINT-TO-MULTIPOINT 54430 10 MHz SUBSCRIBER MODULE BROADBAND RADIO, MODEL NO. 5490SM10 OR CITY APPROVED EQUAL RADIO SHALL BE INSTALLED ON POLE "G" PER THE SPECIAL PROVISIONS. CONTRACTOR SHALL COORDINATE WITH THE CITY OF RIVERSIDE TRAFFIC ENGINEERING SECTION AT 951-826-5104 TO DETERMINE IF THE RADIO WILL PROVIDE PROPER RF PERFORMANCE LEVELS. | |
| (3) CONTRACTOR SHALL INSTALL 220' OF 2" CONDUIT AND (1) NEW DLC APPROX. 380' FROM THE EXISTING CONTROLLER TO THE ADJACENT PULLBOX FOR THE NEW DETECTOR CHANNEL (8J6U). | (10) CONTRACTOR SHALL CONSTRUCT (TYPE 332 CABINET) FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL MODEL 170ATC-CF CONTROLLER ASSEMBLY IN THE RELOCATED TYPE 332 CABINET. | |
| (4) CONTRACTOR SHALL INSTALL (3) NEW DLC(S) AND (2) DETECTOR CARDS FOR THE NEW DETECTOR CHANNELS (3J5L, 8J7U, & 8J7L) APPROX. 165' FROM THE EXISTING CONTROLLER TO THE ADJACENT PULLBOX. | (11) CONTRACTOR SHALL RELOCATE TYPE 332 ALUMINUM CABINET AND UNINTERRUPTED POWER SUPPLY. CONTRACTOR SHALL PROVIDE AND INSTALL REPLACEMENT BATTERIES FOR THE CABINET BBS SYSTEM (MODEL 24M BBS BATTERIES). REMOVE TYPE 332 FOUNDATION COMPLETELY. | |
| (5) CONTRACTOR SHALL INSTALL (2) NEW DLC(S) AND (1) DETECTOR CARD FOR THE NEW DETECTOR CHANNELS (5J1L & 2J3U) APPROX. 60' FROM THE EXISTING CONTROLLER TO THE ADJACENT PULLBOX. | (12) CONTRACTOR SHALL PROVIDE ADDITIONAL DETECTOR CARDS AND AUXILIARY EQUIPMENT WITHIN TYPE 332 TO PROVIDE THE INTENDED OPERATION. | |
| (6) CONTRACTOR SHALL (2) NEW DLC APPROX. 45' FROM THE EXISTING CONTROLLER TO THE ADJACENT PULLBOX FOR THE NEW DETECTOR CHANNEL (4J6L & 7J5L). | | |



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ENGINEER IN RESPONSIBLE CHARGE
 GILBERT M. HERNANDEZ
 R.C.E. No. 69170 EXPIRES: 6-30-14
 DATE: 4-3-2013

REGISTERED PROFESSIONAL ENGINEER
 GILBERT M. HERNANDEZ
 No. 69170
 Exp. 06-30-14
 CIVIL
 STATE OF CALIFORNIA

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS

APPROVED BY	DATE	APPROVED BY	DATE
ENGINEERING MANAGER	4-10-13	CITY ENGINEER	4/10/13
TRAFFIC DIVISION	4/17/13		
CONSTRUCTION ADMIN.			

DATE: 4/10/2013

TRAFFIC SIGNAL IDENTIFICATION

INDIANA AVENUE AND JACKSON STREET

SCALE: 1" = 20'

X-367A

SHEET 1 OF 1

FILE NAME: X-367A.DWG