

**POLE SCHEDULE**

No.	TYPE	STANDARD			LUMINAIRE H.P.S.V.	IISNS LEGEND	SIGNAL MOUNTING			PPB PHASE	REMARKS
		HGT.	SIG. M.A.	LUM. M.A.			VEHICLE	PED			
(A)	19-4-80	30'	25'	12'	250W	Alessandro(N) Blvd 6400	MAS (N)	SV-1-T	SP-1-T	ø2	
(B)	1A	10'	-	-	-	-	-	TV-2-T	SP-1-T	ø4	
(C)	26-4-80	30'	40'	15'	250W	Via Vista(N) Dr 1600	2-MAS	SV-1-T	-	ø4	
(D)	1A	10'	-	-	-	-	-	TV-2-T(N)	SP-1-T	ø6	
(E)	19-2-80	30'	25'	12'	200W	Alessandro(N) Blvd 6500	MAS (N)	SV-1-T	SP-1-T	ø6	
(F)	1A	10'	-	-	-	-	-	TV-2-T	SP-1-T	ø8	
(G)	26-4-80	30'	45'	15'	400W	Via Vista(N) Dr 1700	2-MAS	SV-1-T	SP-1-T	ø8	
(H)	1A	10'	-	-	-	-	-	TV-2-T(N)	-	ø2	

ALL EQUIPMENT IS EXISTING UNLESS NOTED (N) = NEW EQUIPMENT TO BE INSTALLED.

PEDESTRIAN AUDIBLES: C=CUCKOO (NORTH/SOUTH), P=PEEP PEEP (EAST/WEST)

1. ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
2. ALL PEDESTRIAN INDICATIONS SHALL BE L.E.D. COUNTDOWN TYPE.
3. ALL IISNS PANELS SHALL BE NEW WITH 3M DG3 SHEETING, SEE SPECIAL PROVISIONS.

**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL REMOVE THE ø4 AND ø8 3-SECTION VEHICLE INDICATION WITH FRAMEWORK AND REPLACE WITH A 5-SECTION INDICATION, SEE DETAIL "B". THE CONTRACTOR SHALL SUPPLY AND INSTALL THE APPROPRIATE EQUIPMENT FOR THE PROPOSED CONFIGURATION.
2. CONTRACTOR SHALL REMOVE THE EXISTING ø4 AND ø8 3-SECTION VEHICLE INDICATION AND INSTALL A 5-SECTION INDICATION, SEE DETAIL "A". THE CONTRACTOR SHALL SUPPLY AND INSTALL THE APPROPRIATE EQUIPMENT FOR THE PROPOSED CONFIGURATION.
3. INSTALL 1 NEW DLC APPROXIMATELY 300' FROM EXISTING CONTROLLER THROUGH CONDUIT RUNS 1, 2, 3, 4, 5 AND 8 FOR 7J5U DETECTOR LOOPS.

4. CONTRACTOR SHALL FURNISH AND REPLACE ALL EXISTING IISNS LIGHTING ASSEMBLIES WITH NEW L.E.D. RETROFIT KITS. SEE SPECIAL PROVISIONS.

**TRAFFIC SIGNAL GENERAL NOTES:**

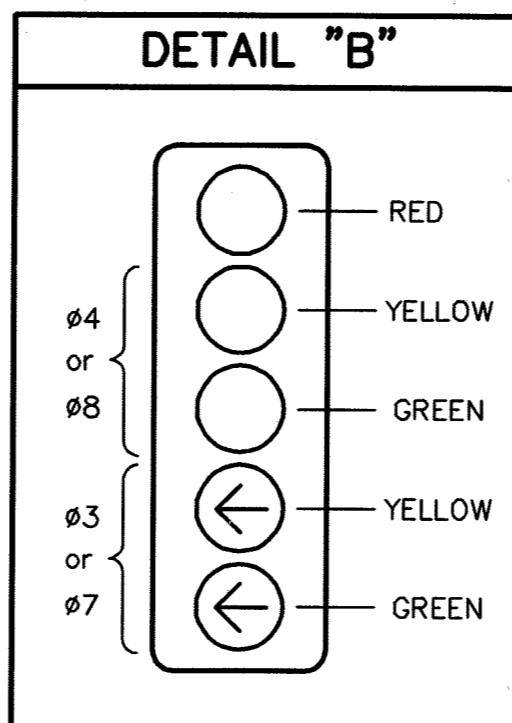
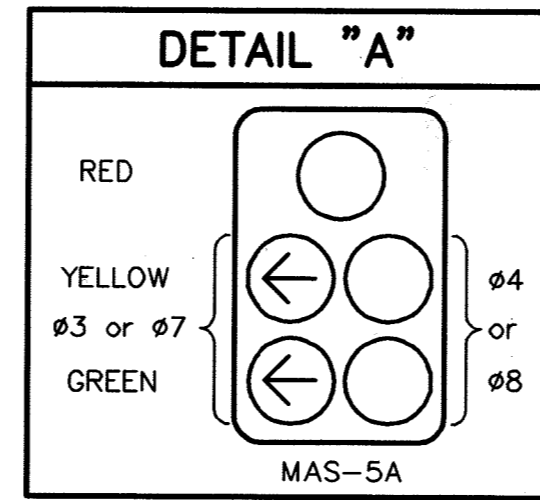
1. ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF: THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED MAY 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED SEPTEMBER 2006; AND THE SPECIAL PROVISIONS.
2. 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.
3. UNLESS SHOWN OTHERWISE, INDUCTIVE LOOPS SHALL TYPE "DIE" 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.
4. 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.
5. UNDERGROUND SIGNAL CONDUCTORS SHALL NOT BE SPLICED.
6. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE PRECISE FIELD LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO THE INSTALLATION.
7. NEW MAST ARM MOUNTED SIGNS SHALL BE FABRICATED WITH 3M DG3 (ASTM XI) REFLECTIVE SHEETING OR APPROVED EQUAL.
8. VEHICLE HEADS SHALL BE 12" LED TYPE. THE HOUSING, BACKPLATES AND VISORS SHALL BE METAL.
9. SALVAGED TRAFFIC SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CITY OF RIVERSIDE TRAFFIC SIGNAL MAINTENANCE YARD.

**SIGNING AND STRIPING GENERAL NOTES:**

1. SIGNING AND STRIPING INSTALLATIONS SHALL CONFORM TO THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS DATED MAY 2006, AND ALL ADDENDUMS THERETO, AND THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT STANDARD DRAWINGS, CURRENT EDITION.
2. ALL STRIPING, MARKINGS, AND LEGENDS SHALL BE REFLECTORIZED THERMOPLASTIC UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL PROVIDE AND INSTALL RAISED PAVEMENT MARKERS FOR ALL STRIPING. STRIPING, MARKINGS AND LEGENDS SHALL CONFORM TO THE LATEST CALTRANS STANDARD PLANS A20A THRU A20D AND A24A THRU A24E.
3. PRIOR TO FINAL ACCEPTANCE OF STREET IMPROVEMENTS, ALL PAVEMENT STRIPING AND STENCILING WITHIN THE PERIMETER OF THE CONSTRUCTION AREA SHALL BE RESTORED TO LIKE NEW CONDITION, IN A MANNER MEETING THE APPROVAL OF THE CITY OF RIVERSIDE.
4. ALL NEW STRIPING SHALL BE "CAT TRACKED" AND APPROVED BY THE ENGINEER PRIOR TO FINAL INSTALLATION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AFTER COMPLETING LAYOUT AND AT LEAST 3 WORKING DAYS BEFORE COMMENCING INSTALLATION OF STRIPING, MARKINGS AND MARKERS.
5. TRAFFIC SIGN FACE REFLECTIVE SHEETING SHALL BE 3M DG3 (ASTM XI) OR APPROVED EQUAL WITH PROTECTIVE GRAFFITI OVERLAY FILM OR AS OTHERWISE NOTED.
6. SIGNS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE. PRIOR TO INSTALLATION, NEW SIGNS SHALL BE APPROVED BY THE CITY OF RIVERSIDE. EXACT LOCATIONS OF SIGNS SHALL BE DETERMINED BY THE CITY ENGINEER.
7. STRIPING SHALL BE APPLIED WITHIN 48 HOURS OF SURFACE COURSE REPLACEMENT ON STREETS OPEN TO THE PUBLIC. IN NO CASE SHALL A NEWLY PAVED STREET OPEN TO THE PUBLIC BE LEFT UNSTRIPED OVER A WEEKEND OR HOLIDAY.
8. ALL CONFLICTING STRIPING, PAVEMENT MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS SHALL BE REMOVED EVEN IF NOT SHOWN ON PLANS. REMOVALS OF PAINTED STRIPING, PAVEMENT MARKINGS AND LEGENDS SHALL BE DONE BY WET SANDBLASTING. REMOVALS OF THERMOPLASTIC STRIPING, PAVEMENT MARKINGS AND LEGENDS SHALL BE REMOVED BY WET SANDBLASTING, GRINDING OR OTHER APPROVED METHOD AND SHALL NOT DAMAGE THE PAVEMENT. "BLACK OUT" OF EXISTING DELINEATION IS NOT PERMITTED. ALL DAMAGED PAVEMENT DUE TO REMOVALS SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A SMOOTH AND UNIFORM SURFACE OR AS DIRECTED BY THE ENGINEER. ALL STRIPING REMOVALS AND LEGENDS SHALL BE "FOG SEALED".

**LEGEND NOTES:**

- IS INSTALL MASTARM SIGN AS NOTED.
- I INSTALL TYPE "DIE" VEHICLE DETECTORS, PER DETAIL.
- AB EXISTING EQUIPMENT TO BE ABANDONED.
- SC SPLICE NEW TO EXISTING CONDUCTORS
- RS EXISTING EQUIPMENT TO BE REMOVED AND SALVAGED, EQUIPMENT TO BE RETURNED TO CITY SIGNAL SHOP
- RC EXISTING EQUIPMENT TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
- (XX') EXISTING WIDTH
- XX' PROPOSED WIDTH



**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	5	1	2	8
	3 CSC	2	3	4	4	4	1	2	7

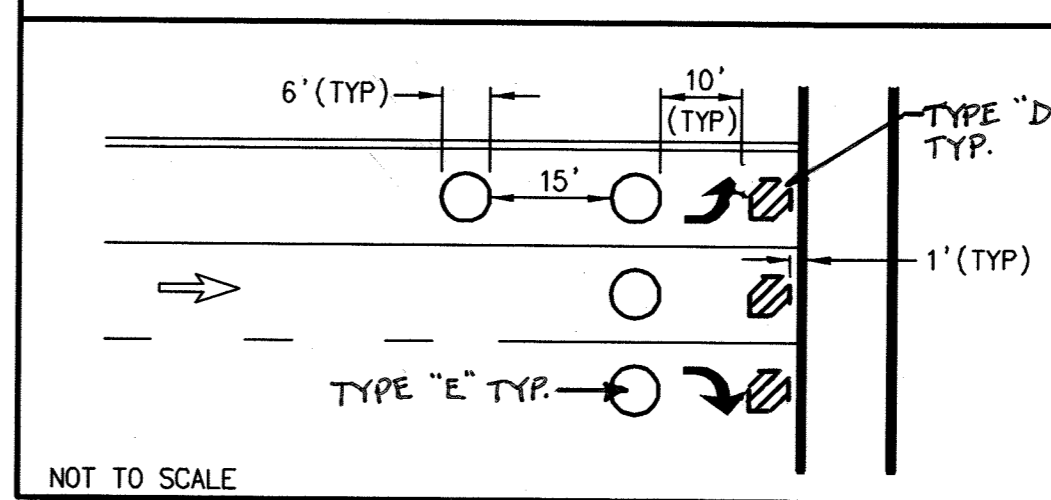
DETECTOR CABLE	TYPE B	1	2	3	4	5	6	7	8
PHASE 1	-	-	-	-	1	1	-	-	1
PHASE 2	-	-	-	-	-	-	3	3	3
PHASE 3	-	-	-	-	-	-	-	-	*1
PHASE 4	-	2	2	2	2	2	-	-	2
PHASE 5	-	-	-	-	-	-	1	1	1
PHASE 6	-	-	-	-	3	3	-	-	3
PHASE 7	-	1(N)	1(N)	1(N)	1(N)	-	-	-	1(N)
PHASE 8	-	-	-	-	-	-	-	-	2

I.I.S.N.S.	#12	2	2	2	2	2	-	2	-
LUMINAIRES	#8	2	2	2	2	2	-	2	-
SIGNAL SERVICE	#6	-	-	-	-	2	-	-	2
VIDEO DETECTION	CAT-5	1	1	1	1	1	-	-	2
VEHICLE PREEMPTION	#20/4	1	1	1	1	1	-	3	4

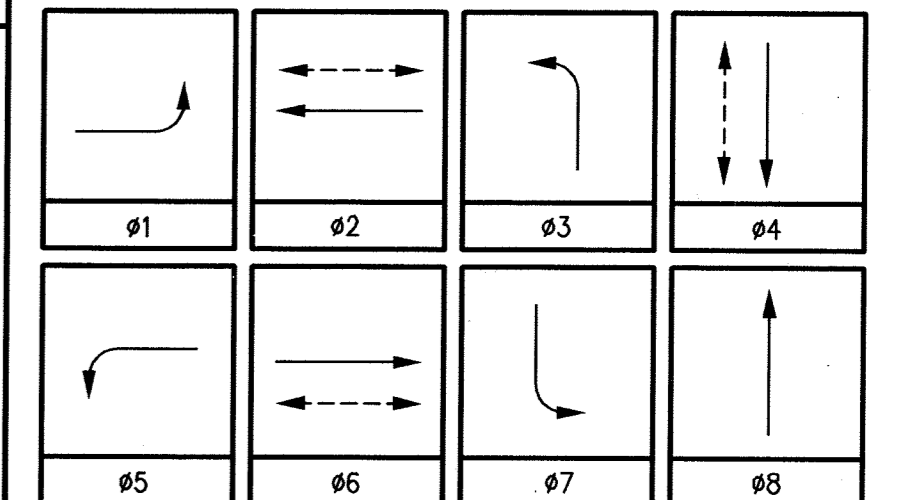
CONDUIT SIZE	2"	3"	3"	3"	3"	3"	3"	2-3"

NOTE: ALL CONDUCTORS ARE EXISTING UNLESS NOTED (N) = NEW EQUIPMENT TO BE INSTALLED  
 \* CONTRACTOR SHALL RE-ASSIGN (1) ø8 DETECTOR CHANNEL TO A ø3 CHANNEL FOR THE NORTHBOUND LEFT TURN LANE.

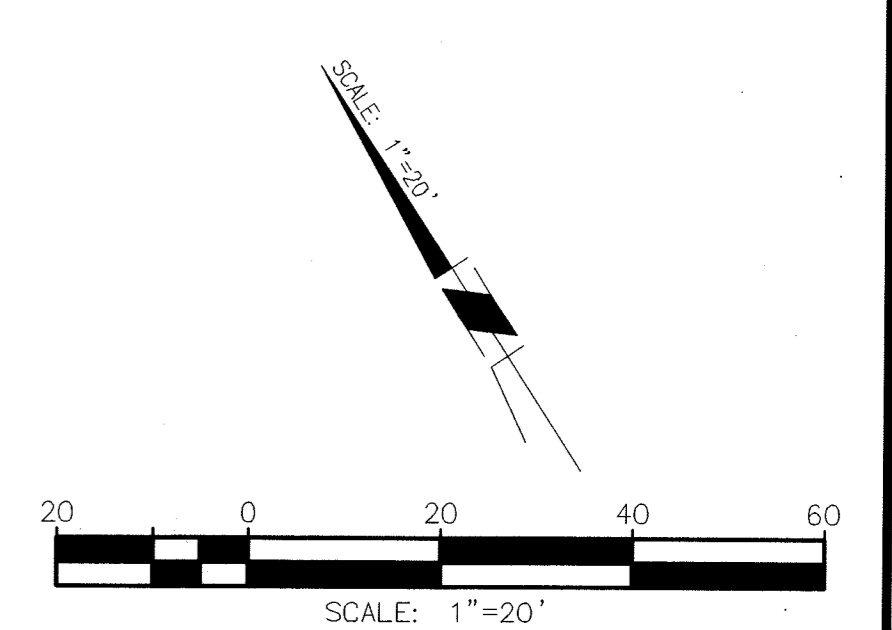
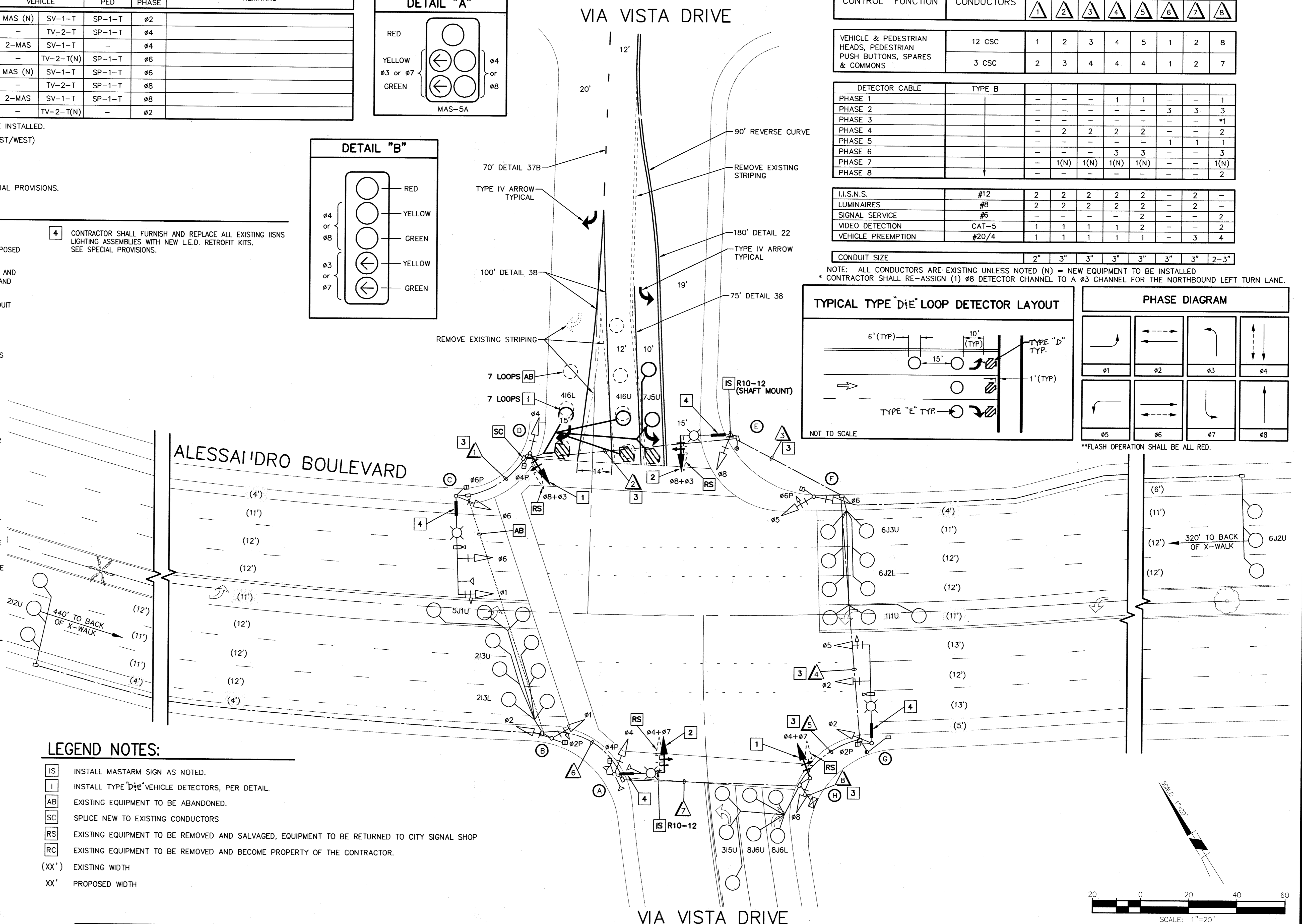
**TYPICAL TYPE "DIE" LOOP DETECTOR LAYOUT**



**PHASE DIAGRAM**



\*\*FLASH OPERATION SHALL BE ALL RED.



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**ENGINEER IN RESPONSIBLE CHARGE**  
 GILBERT M. HERNANDEZ  
 R.C.E. No. 69170 EXPIRES: 6-30-10  
 DATE: 8-21-09

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY: [Signature] DATE: 9/18/09  
 ENGINEERING MANAGER  
 PRINCIPAL ENGINEER  
 TRAFFIC DIVISION: 2 DATE: 9/21/09  
 CONSTRUCTION ADMIN.

**TRAFFIC SIGNAL MODIFICATION**  
 ALESSANDRO BOULEVARD AT VIA VISTA DRIVE  
 X-488A  
 SHEET 1 OF 1  
 FILE NAME: X-488A.DWG  
 SCALE: 1" = 20'