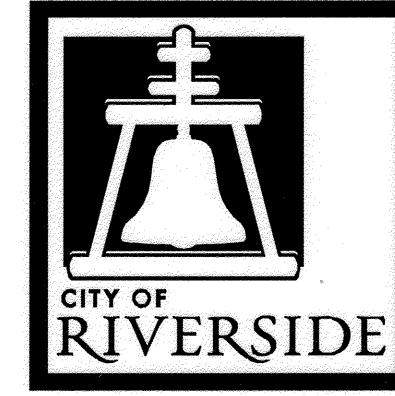


RIVERSIDE



CALIFORNIA

PUBLIC WORKS DEPARTMENT

2015/2016 CDBG - WARD 5 PEDESTRIAN HAWK SIGNAL

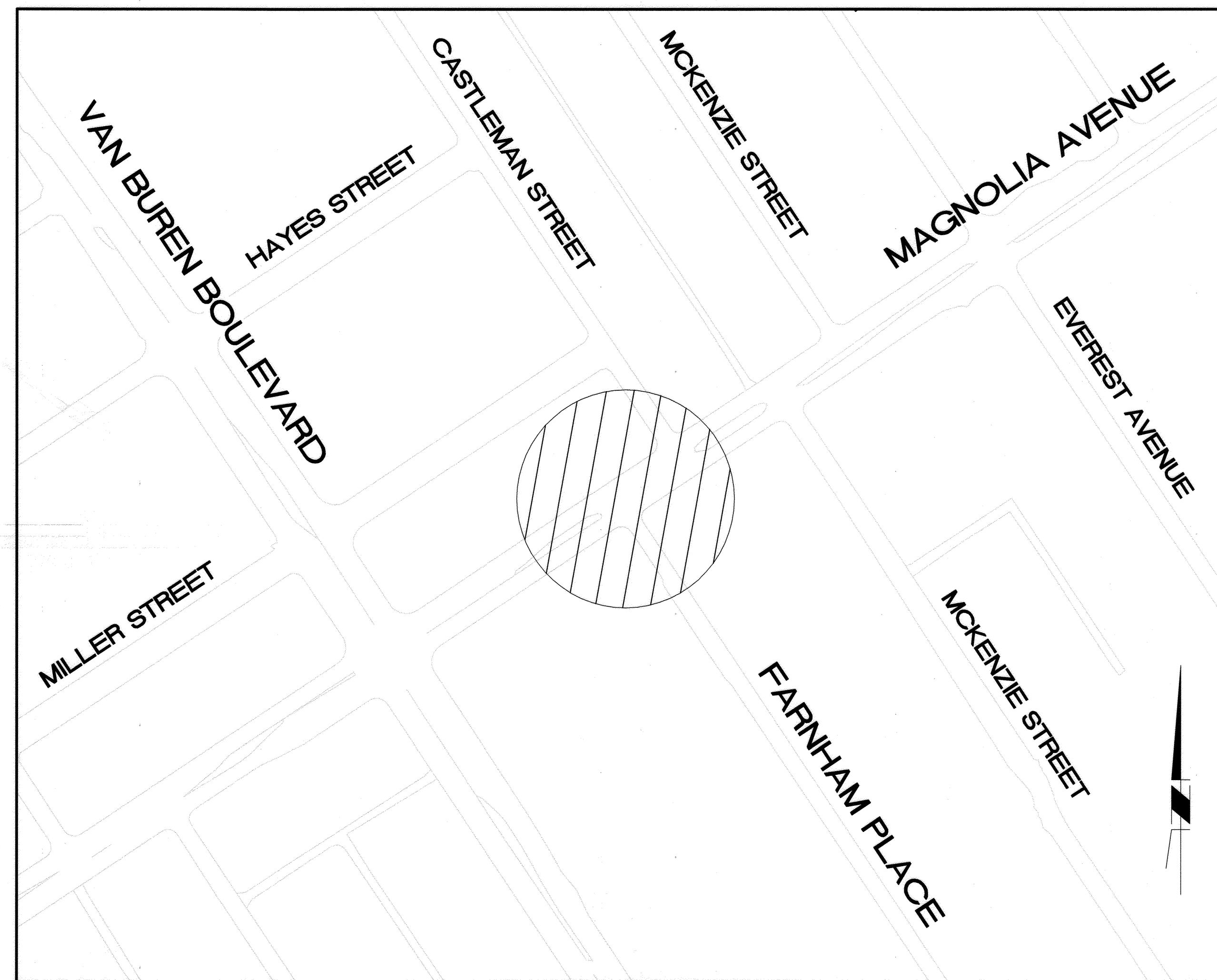
IMPROVMENTS AT MAGNOLIA AVENUE AND FARNHAM PLACE A HUD FUNDED PROJECT

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC AS INDICATED IN THE ASSOCIATED PROJECT SPECIAL PROVISIONS.
2. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE STANDARD DRAWINGS AND STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 2012 EDITION.
3. EXISTING UTILITIES SHOWN ON THIS PLAN ARE PLOTTED FROM UTILITY RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO LOCATE AND PROTECT ALL UTILITIES WHETHER OR NOT SHOWN ON THIS PLAN.
4. CONFLICTING UTILITIES SHOWN WITHIN CONSTRUCTION AREA WILL BE RELOCATED PRIOR TO CONSTRUCTION.
5. ALL STREET PULL BOXES, AFFECTED BY CONSTRUCTION, SHALL BE ADJUSTED TO THE PROPOSED GRADE.
6. PRIME CONTRACTOR BIDDING THIS WORK SHALL HAVE A CLASS "A" OR "C-8".
7. CONTRACTOR SHALL REMOVE ALL VEGETATION WITHIN ALL SIDEWALK PANELS WITHIN THE PROJECT LIMITS.
8. ALL EXISTING IMPROVEMENTS SHOWN HEREON SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
9. EXISTING IRRIGATION SHALL BE PROTECTED OR MODIFIED AS NECESSARY TO CONSTRUCT NEW CONCRETE IMPROVEMENTS.
10. ALL FENCE POSTS SHALL BE PROTECTED OR MODIFIED AS NECESSARY IF POST FOUNDATION IS WITHIN A SIDEWALK PANEL THAT HAS BEEN CALLED OUT FOR REPLACEMENT.

CONSTRUCTION NOTES:

- NUMBERS ABOVE 100 IN A HEXAGON ON THE PLAN REFER TO THE RESPECTIVE STANDARD DRAWING AND SHALL BE CONSTRUCTED ACCORDINGLY. UNLESS MODIFICATIONS ARE NOTED ON THE PLAN OR COVER SHEET. ANY NUMBER SHOWN BELOW THE STANDARD DRAWING NUMBER INDICATES THE SPECIFIC ALTERNATE TO BE CONSTRUCTED.
- PIP PROTECT IN PLACE EXISTING FACILITY. DESCRIPTION (--) PER PLAN. PB=PULLBOX, WF=WROUGHT IRON FENCE, SL=STREET LIGHT

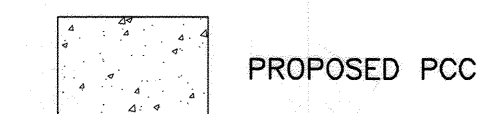


LOCATION MAP
NTS

EXISTING TOPOGRAPHY:

- ⊙ SANITARY SEWER M.H.
- ⊙ STORM DRAIN M.H.
- ⊙ ELECTRIC M.H.
- ⊙ WATER M.H.
- ⊙ GATE VALVE
- ⊙ ELECTRICAL TEST STATION (GAS)
- ⊙ FIRE HYDRANT

LEGEND:



SHEET INDEX: SIGNAL IMPROVEMENTS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	SIGNAL PLAN

<p>ENGINEER IN RESPONSIBLE CHARGE GILBERT M. HERNANDEZ R.C.E. No. 69170 EXPIRES: 6-30-18 DATE: 8-29-14</p>		<p>CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS</p>		<p>PEDESTRIAN SIGNAL PLAN 2015/2016 CDBG PEDESTRIAN HAWK SIGNAL IMPROVEMENTS TITLE SHEET</p>		<p>DESIGN WORK ORDER NO.: 1617339 CONSTR. WORK ORDER NO.: 1617340</p>
		<p>APPROVED BY: [Signature] ENGINEERING MANAGER CONSTRUCTION ADMIN. TRAFFIC DIVISION PUBLIC UTILITIES</p>	<p>BY: FM DATE: 8/29/16 DC</p>	<p>APPROVED BY: [Signature] CITY ENGINEER</p>	<p>DATE: 8/30/16</p>	<p>X-552</p>
<p>DESIGNED BY: DMC DRAWN BY: DMC CHECKED BY: NM</p>		<p>HORIZ. SCALE: N/A VERT. SCALE: N/A</p>		<p>FILE NAME: X552-1.DWG</p>		

EQUIPMENT SCHEDULE

No.	STANDARD	TYPE	HGT.	SIG. M.A.	LUM. M.A.	LUMINAIRE L.E.D.	ISNS LEGEND	SIGNAL MOUNTING			PPB PHASE	REMARKS
								VEHICLE	PED	AUDIBLE		
(A)	19-4-100(*)	30'	30'(+)	15'(+)	250W	Ped Xing	2-MAS	SV-1-T	-	-	-	
(B)	TYPE 1A	7'	-	-	-	-	-	TP-1-T	"P"	#4		
(C)	24-4-100(*)	30'	35'(+)	15'(+)	250W	Ped Xing	2-MAS	SV-1-T	"P"	#4		

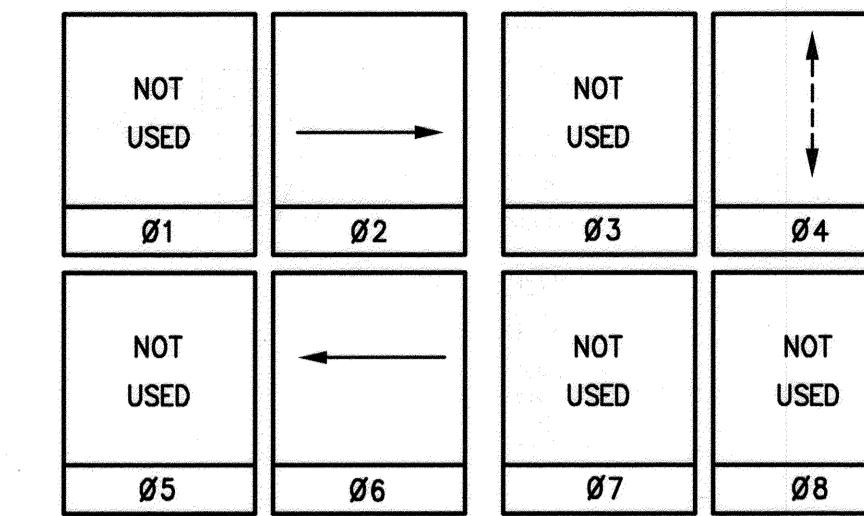
PEDESTRIAN AUDIBLES: C=CUCKOO (NORTH/SOUTH), P=PEEP PEEP (EAST/WEST)

- ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
- PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THE PHASE.
- CONTRACTOR SHALL POTHOLE MAST ARM POLE FOUNDATIONS PRIOR TO INSTALLING POLES AND MAST ARMS.
- ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN HEADS.
- IISNS PANELS SHALL BE FLUORESCENT YELLOW.
- EQUIPMENT WITH A (*) WILL BE SUPPLIED BY THE CITY. THE CONTRACTOR SHALL COORDINATE WITH THE CITY SIGNAL SHOP FOR PICKUP. ANCHOR BOLTS INCLUDED.

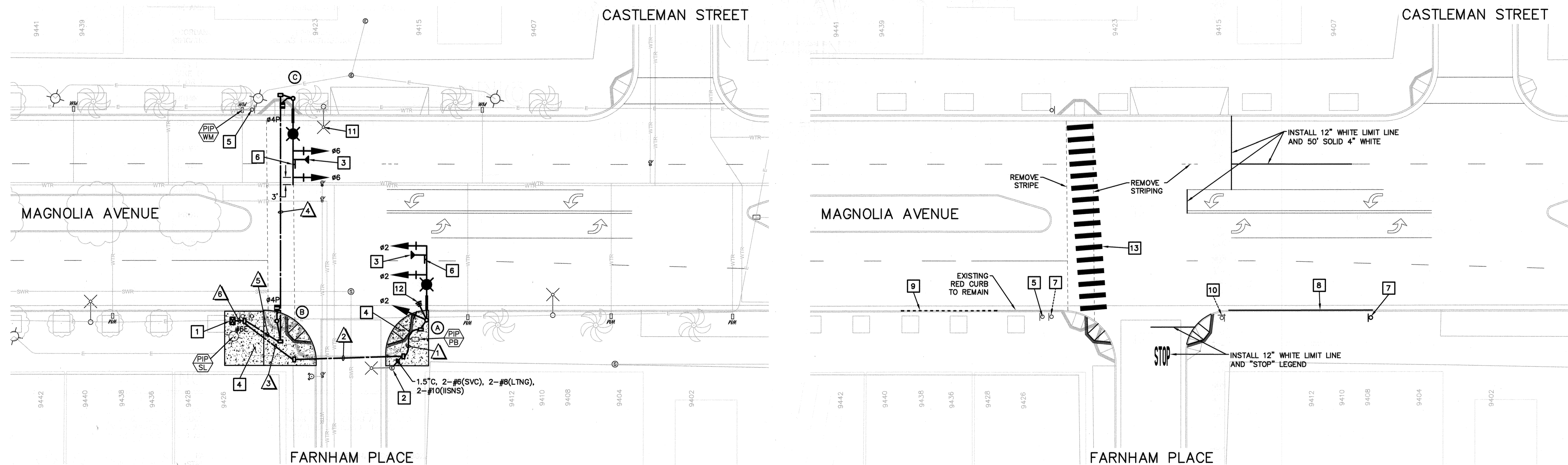
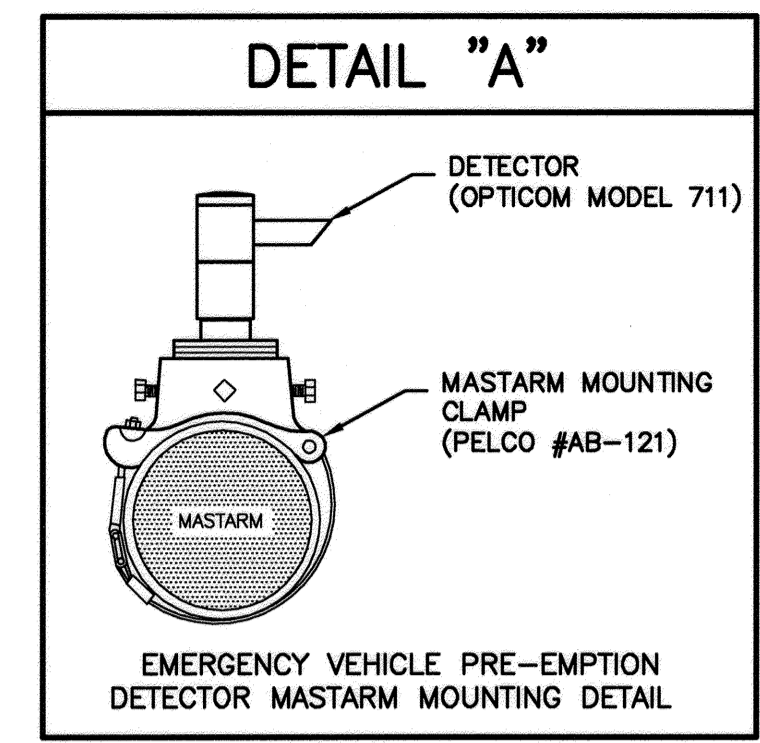
CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS					
		1	2	3	4	5	6
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CSC	1	1	1	1	2	3
	3 CSC	-	-	-	1	2	2
I.I.S.N.S.	#10	2	2	2	2	2	-
LUMINAIRES	#8	2	2	2	2	2	-
SIGNAL SERVICE	#6	-	2	2	-	-	2
VEHICLE PREEMPTION	#20/3	1	1	1	1	1	2
MULTI-POINT RADIO	CAT-5	-	-	-	1	1	1
CONDUIT SIZE		2"	3"	3"	3"	3"	2-4"

PHASE DIAGRAM



**FLASHING OPERATION SHALL BE ALL RED.

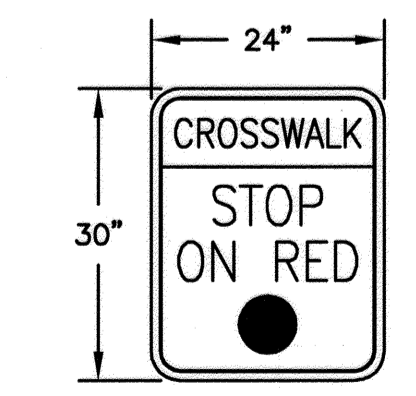


TRAFFIC SIGNAL GENERAL NOTES:

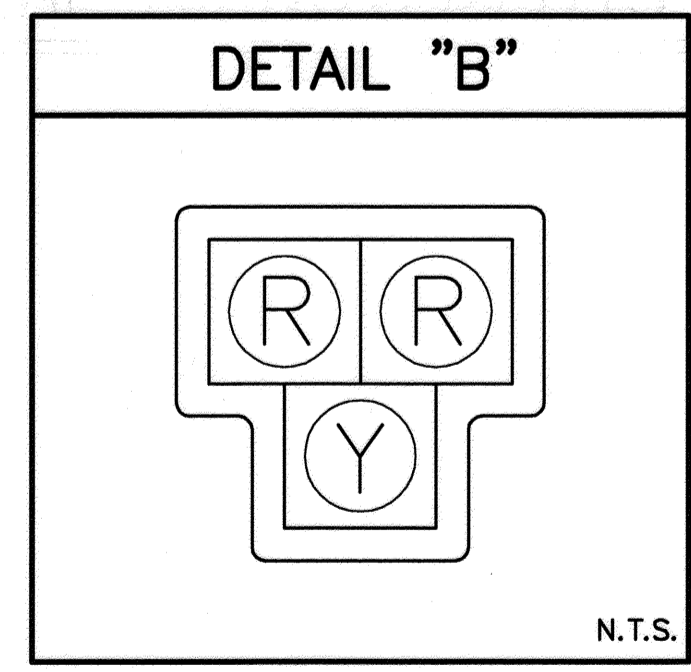
- ALL ITEMS FURNISHED AND ALL WORK TO BE DONE SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS, DATED 2006; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2014; AND THE SPECIAL PROVISIONS.
- UTILITIES 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.
- 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.
- ALL LANDSCAPING WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE CITY AND THE PROPERTY OWNER.
- NEW MAST ARM MOUNTED SIGN SHALL BE FABRICATED WITH 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING (ASTM TYPE XI) OR APPROVED EQUAL. SIGNS SHALL BE STANDARD SIZE AND HAVE A MINIMUM SIDE DIMENSION OF 30".
- 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.
- 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.
- 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.

CONSTRUCTION NOTES:

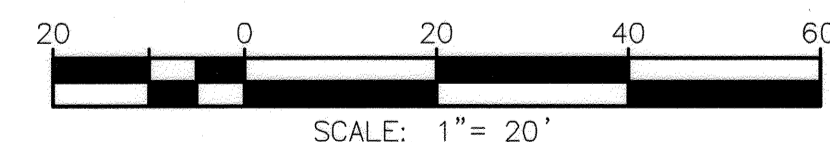
- CONTRACTOR SHALL CONSTRUCT (TYPE 332 CABINET) FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 ANODIZED ALUMINUM CABINET, COMPLETE WITH AUXILIARY EQUIPMENT WITHIN A TYPE 332 CABINET PER CITY OF RIVERSIDE SPECIFICATIONS.
- INSTALL ELECTRICAL SERVICE PER CITY OF RIVERSIDE STANDARD DRAWING No. 667. CONTRACTOR SHALL COORDINATE WITH CITY OF RIVERSIDE ELECTRICAL UTILITY DEPARTMENT AT (951) 826-5452 FOR ELECTRICAL SERVICE A MINIMUM OF THREE WEEKS PRIOR TO TRAFFIC SIGNAL TURN ON.
- INSTALL ONE (1) GTT MODEL No. 711 (OR CITY-APPROVED EQUAL) EMERGENCY VEHICLE PRE-EMPTION DETECTOR ASSEMBLY (INCLUDING MOUNTING HARDWARE AND CABLE) FOR EACH DIRECTION AS SHOWN ON PLAN. E.V.P.E. SHALL BE MOUNTED ON THE MAST ARM PER DETAIL "A".
- REMOVE AND REPLACE EXISTING PEDESTRIAN SIGN(S) AND CONCRETE SIDEWALK.
- REMOVE AND SALVAGE EXISTING TRAFFIC SIGN TO CITY YARD.
- FURNISH AND INSTALL A NEW R10-23 MAST ARM SIGN.
- RELOCATE EXISTING BUS STOP SIGN NORTHERLY.
- PROVIDE 60" RED CURB FOR PROPOSED BUS STOP LOCATION.
- REMOVE 40' OF EXISTING RED CURB.
- REMOVE EXISTING STREET NAME SIGN. INSTALL EXISTING BIKE LANE SIGN ON NEW POST ADJACENT TO EXISTING BIKE LANE. INSTALL STREET NAME SIGN PER CITY STANDARD DRAWING NO. 662 ON NEW SIGNAL POLE. (MAGNOLIA AVE 9400 & FARNHAM PL 3700)
- REMOVE AND SALVAGE EXISTING MARBLELITE POLE TO CITY YARD. INTERCEPT THE EXISTING CONDUIT RUN AND INSTALL A NEW P1 STREETLIGHT POLE IN ITS PLACE. SEE SPECIAL PROVISIONS FOR CITY STANDARD DETAILS.
- THE CONTRACTOR SHALL 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 "A" 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.
- INSTALL CONTINENTAL CROSSWALK WITH 24" SOLID WHITE STRIPES AND 3' OPENINGS.



R10-23



N.T.S.



	ENGINEER IN RESPONSIBLE CHARGE GILBERT M. HERNANDEZ R.C.E. No. 69170 EXPIRES: 6-30-18 DATE: 5-29-16		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	PEDESTRIAN SIGNAL PLAN 2015/2016 CDBG PEDESTRIAN HAWK SIGNAL IMPROVEMENTS MAGNOLIA AVENUE AT FARNHAM PLACE HORIZ. SCALE: 1"=20' VERT. SCALE: N/A	DESIGN WORK ORDER NO.: 1617339 CONSTR. WORK ORDER NO.: 1617340 X-552 SHEET 2 OF 2 FILE NAME: X552-2.DWG
	DESIGNED BY: DMC DRAWN BY: DMC CHECKED BY: NM	APPROVED BY: [Signature] ENGINEERING MANAGER TRAFFIC DIVISION PUBLIC UTILITIES	DATE: 8/29/16	APPROVED BY: [Signature] CITY ENGINEER	DATE: 8/30/16