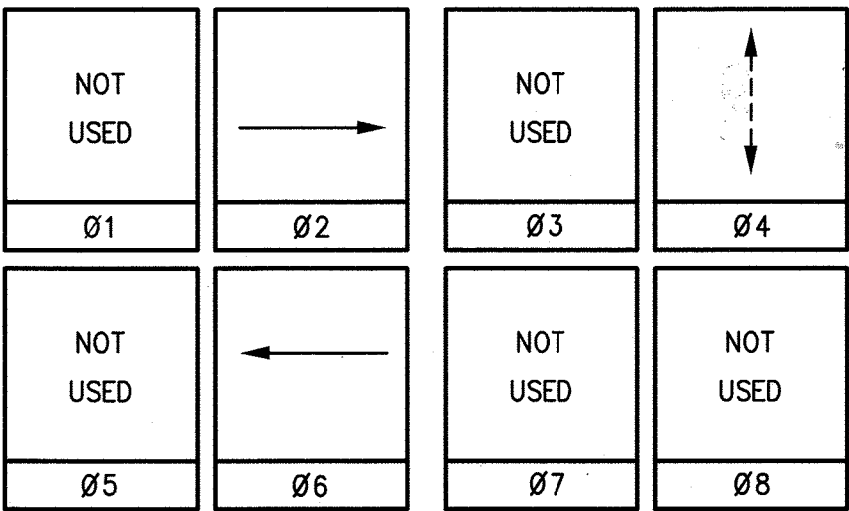


EQUIPMENT SCHEDULE

STANDARD					LUMINAIRE L.E.D.	IISNS LEGEND	SIGNAL MOUNTING		PPB PHASE	REMARKS					
No.	TYPE	HGT.	SIG.	M.A.			VEHICLE	PED							
A	26-4-100	30'	45'	15'	250W	Emerald SI 7500	2-MAS	SV-1-T	SP-1-T	#4	1	2	3	4	5
B	15TS	30'	-	15'	250W	Emerald SI 7400	-	SV-1-T	SP-1-T	#4	1	2	3	4	6

- ALL VEHICULAR HEADS SHALL HAVE 12" LENSES.
- PEDESTRIAN BUTTONS SHALL BE 2-WIRE POLARA ACCESSIBLE PEDESRIAN SIGNALS (APS)
- CONTRACTOR SHALL POTHOLE MAST ARM POLE FOUNDATIONS TO FIND SUITABLE LOCATION PRIOR TO ORDERING POLES AND MAST ARMS.
- ALL PEDESTRIAN HEADS SHALL BE LED COUNTDOWN HEADS.
- IISNS PANELS SHALL BE 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING (ASTM XI) OR APPROVED EQUAL. IISNS PANELS SHALL BE PER CITY STANDARD DRAWING No. 663.
- IISNS PANELS SHALL BE SHAFT-MOUNTED.

PHASE DIAGRAM



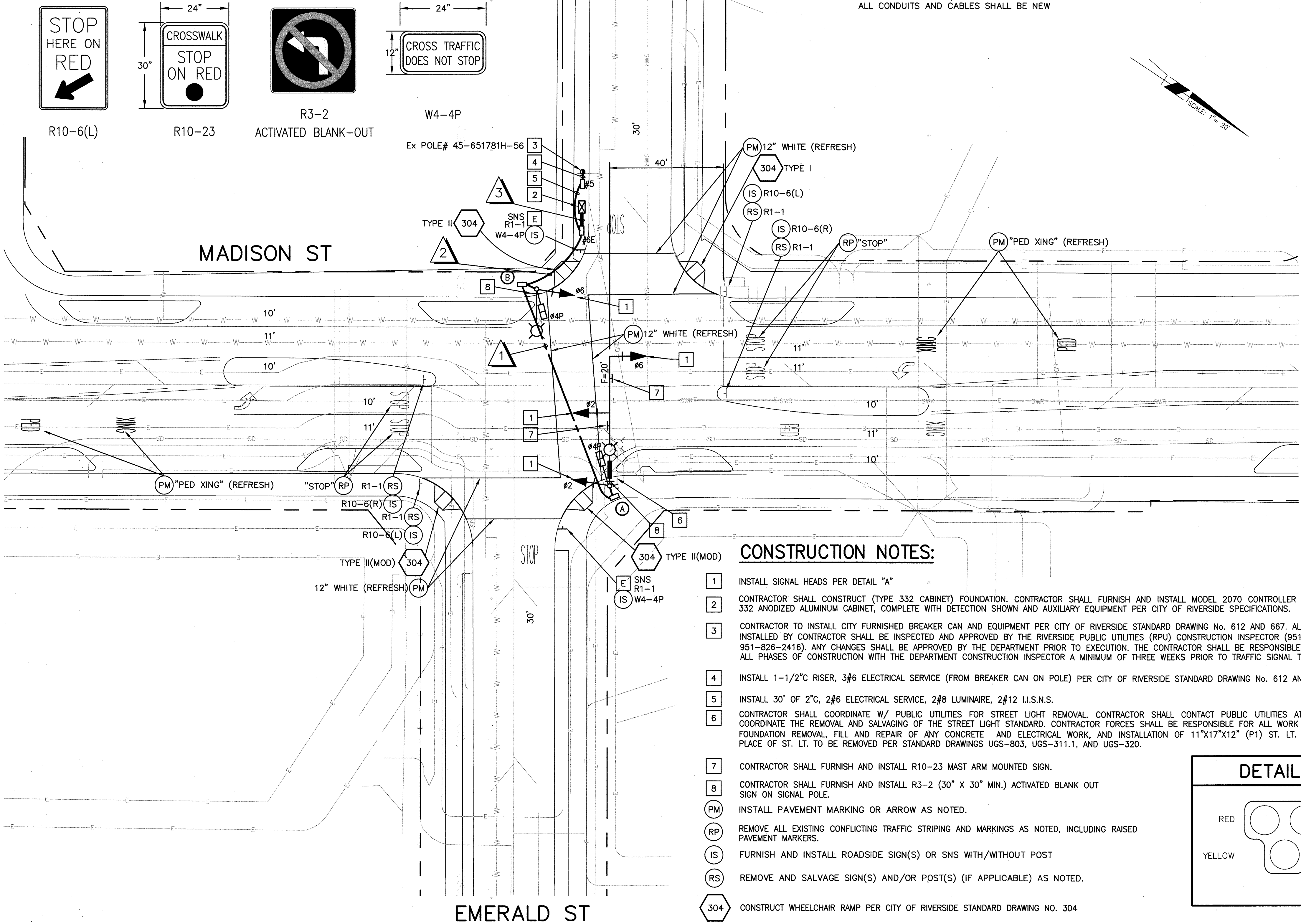
CONDUCTOR TABLE

CONTROL FUNCTION	CONDUCTORS	CONDUCTOR RUNS		
		1	2	3
VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS	12 CSC	1	2	2
	3 CSC	1	2	2
I.I.S.N.S.	#12	2	2	
LUMINAIRES	#8	2	2	
SIGNAL SERVICE	#6			2
CONDUIT SIZE		3"	3"	3"

ALL CONDUITS AND CABLES SHALL BE NEW

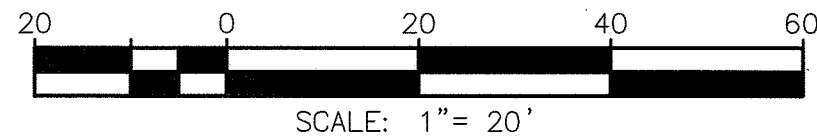
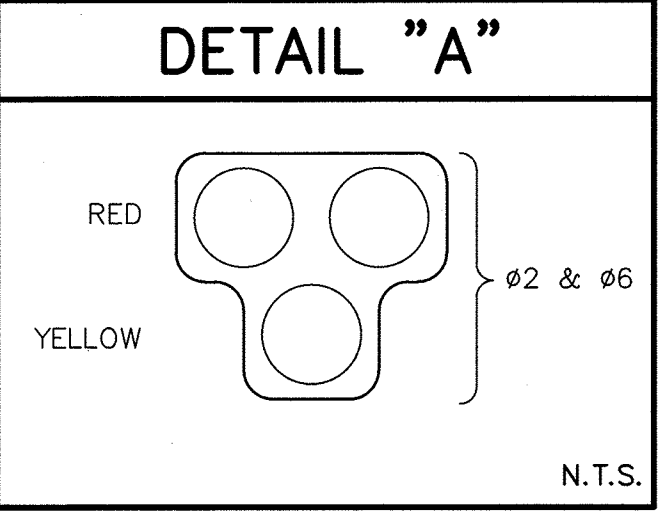
TRAFFIC SIGNAL GENERAL NOTES:

- 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 2018; THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED 2014 (CURRENT REV.); 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 3" 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).
 - TRAFFIC SIGNAL INTERCONNECT (SIC) SHALL BE 2" UNLESS SHOWN OTHERWISE, BURIED IN A MINIMUM OF 30" OF COVER IN THE STREET AND PARKWAY. No. 6 PULL BOXES WITH LIDS LABELED "COMMUNICATIONS", SHALL BE SPACED AT 400' AND THE MAXIMUM SIC BENDING RADIUS SHALL NOT EXCEED 45'. SIC CONDUIT SHALL ONLY INCLUDE SIGNAL INTERCONNECT CONDUCTORS.
 - 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.
 - 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 1A POLES SHALL BE ALUMINUM PER THE CITY'S STANDARD SPECIFICATIONS.
 - 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 3900 MAIN ST. RIVERSIDE, CA OR AT WWW.RIVERSIDECALGOV/UTILITIES/QEW
- ALL STREET LIGHT AND SERVICE/FEED POINT FACILITIES INSTALLED BY CONTRACTOR SHALL BE INSPECTED AND APPROVED BY THE RIVERSIDE PUBLIC UTILITIES (RPU) CONSTRUCTION INSPECTOR (951-826-2335 OR 951-826-2416). ANY CHANGES SHALL BE APPROVED BY THE RPU PRIOR TO EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASES OF CONSTRUCTION OF THESE FACILITIES WITH THE RPU CONSTRUCTION INSPECTOR. THE RPU INSPECTOR SHALL BE CONTACTED TWO WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION INSPECTION TO ARRANGE FOR INSPECTION TIMES.
 - PROVIDE AND INSTALL ALL STREET LIGHT FACILITIES SHOWN ON TRAFFIC SIGNAL AND UTILITY PLANS, INCLUDING STREET LIGHT CABLE, IN CONFORMANCE WITH THE FOLLOWING STANDARD DRAWINGS: UGS-100M UGS-800, UGS-801, AND STREET LIGHT SPECIFICATION #2-6.



CONSTRUCTION NOTES:

- INSTALL SIGNAL HEADS PER DETAIL "A"
- CONTRACTOR SHALL CONSTRUCT (TYPE 332 CABINET) FOUNDATION. CONTRACTOR SHALL FURNISH AND INSTALL MODEL 2070 CONTROLLER ASSEMBLY IN MODEL 332 ANODIZED ALUMINUM CABINET, COMPLETE WITH DETECTION SHOWN AND AUXILIARY EQUIPMENT PER CITY OF RIVERSIDE SPECIFICATIONS.
- CONTRACTOR TO INSTALL CITY FURNISHED BREAKER CAN AND EQUIPMENT PER CITY OF RIVERSIDE STANDARD DRAWING No. 612 AND 667. ALL ELECTRIC FACILITIES INSTALLED BY CONTRACTOR SHALL BE INSPECTED AND APPROVED BY THE RIVERSIDE PUBLIC UTILITIES (RPU) CONSTRUCTION INSPECTOR (951-826-2335 OR 951-826-2416). ANY CHANGES SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASES OF CONSTRUCTION WITH THE DEPARTMENT CONSTRUCTION INSPECTOR A MINIMUM OF THREE WEEKS PRIOR TO TRAFFIC SIGNAL TURN ON.
- INSTALL 1-1/2" RISER, 3#6 ELECTRICAL SERVICE (FROM BREAKER CAN ON POLE) PER CITY OF RIVERSIDE STANDARD DRAWING No. 612 AND 667.
- INSTALL 30' OF 2" C, 2#6 ELECTRICAL SERVICE, 2#8 LUMINAIRE, 2#12 I.I.S.N.S.
- CONTRACTOR SHALL COORDINATE W/ PUBLIC UTILITIES FOR STREET LIGHT REMOVAL. CONTRACTOR SHALL CONTACT PUBLIC UTILITIES AT 951-351-6117 TO COORDINATE THE REMOVAL AND SALVAGING OF THE STREET LIGHT STANDARD. CONTRACTOR FORCES SHALL BE RESPONSIBLE FOR ALL WORK INCLUDING COMPLETE FOUNDATION REMOVAL, FILL AND REPAIR OF ANY CONCRETE AND ELECTRICAL WORK, AND INSTALLATION OF 11"x17"x12" (P1) ST. LT. INTERCEPT BOXES IN PLACE OF ST. LT. TO BE REMOVED PER STANDARD DRAWINGS UGS-803, UGS-311.1, AND UGS-320.
- CONTRACTOR SHALL FURNISH AND INSTALL R10-23 MAST ARM MOUNTED SIGN.
- CONTRACTOR SHALL FURNISH AND INSTALL R3-2 (30" X 30" MIN.) ACTIVATED BLANK OUT SIGN ON SIGNAL POLE.
- INSTALL PAVEMENT MARKING OR ARROW AS NOTED.
- REMOVE ALL EXISTING CONFLICTING TRAFFIC STRIPING AND MARKINGS AS NOTED, INCLUDING RAISED PAVEMENT MARKERS.
- FURNISH AND INSTALL ROADSIDE SIGN(S) OR SNS WITH/WITHOUT POST
- REMOVE AND SALVAGE SIGN(S) AND/OR POST(S) (IF APPLICABLE) AS NOTED.
- CONSTRUCT WHEELCHAIR RAMP PER CITY OF RIVERSIDE STANDARD DRAWING NO. 304



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NATHAN T. MUSTAFA
R.C.E. No. 83654 EXPIRES: 03-31-23
DATE: 5/7/2021

REGISTERED PROFESSIONAL ENGINEER
NATHAN T. MUSTAFA
No. 83654
Exp. 03-31-23
CIVIL
STATE OF CALIFORNIA

MARK REVISIONS APR. DATE
DESIGNED BY: GMH DRAWN BY: GMH CHECKED BY: NTM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: [Signature] DATE: 6-4-21
TRAFFIC DIVISION: [Signature] DATE: 6-22-21
CONSTRUCTION ADMIN.: [Signature] DATE: 5-7-21
PUBLIC UTILITIES: [Signature] DATE: May 7, 2021

TRAFFIC SIGNAL PLAN
MADISON STREET AND EMERALD STREET
SCALE: 1" = 20' WO# 2008458

X-573
SHEET 1 OF 1
FILE NAME: X573.DWG