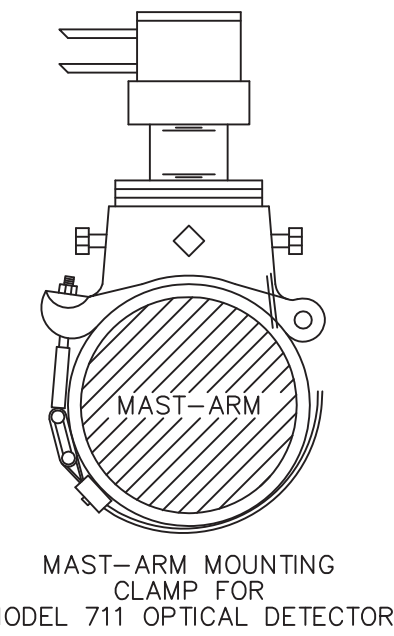


CONSTRUCTION NOTES

- REPLACE EXISTING TS1 CABINET AND CONTROLLER ASSEMBLY WITH NEW TS2 - TYPE 2 PER COUNTY SPECIFICATIONS. FURNISH AND INSTALL VIDEO DETECTION EQUIPMENT (PER MANUFACTURER'S SPECIFICATIONS) AND MISCELLANEOUS EQUIPMENT AS REQUIRED TO PROVIDE THE OPERATION SHOWN. FURNISH AND INSTALL A BATTERY BACK-UP SYSTEM IN A SEPARATE CABINET MOUNTED ON THE SIDE OF THE CONTROLLER CABINET. FOUNDATION SHALL EXTEND UNDER BATTERY BACK-UP CABINET. INSTALL A 4" AND A 2" CONDUIT INTO THIS FOUNDATION TO THE NEW CABINET AND NEW CONTROLLER AS SHOWN.
- EXISTING TS3 SERVICE. PROTECT IN PLACE. CONNECT TO EXISTING 2" CONDUIT AND EXTEND TO NEW #6 PULL BOX AS SHOWN WITH NEW CONDUCTORS.
- EXISTING SPLICER BOX. PROTECT IN PLACE. INSTALL #6 PULL BOX ON EXISTING 3" CONDUIT LEAVING CABINET AS SHOWN. INSTALL NEW 2" CONDUIT FROM PULL BOX TO CONTROLLER CABINET VIA BATTERY BACK-UP CABINET AND FOUNDATION. INTERCEPT AND JOIN EXISTING INTERCONNECT CONDUITS AS INDICATED. EXISTING I.C. CONDUCTORS CAN BE REMOVED AND REUSED.
- INTERCEPT EXISTING 2-3" CONDUITS TO CONTROLLER AND INSTALL #6 PULL BOX. INSTALL NEW 4" CONDUIT TO BATTERY BACK-UP CABINET AND FOUNDATION.
- INSTALL # 6 PULL BOX ON EXISTING 3" CONDUIT TO SPLICER CABINET. INTERCEPT INTERCONNECT CONDUITS AND EXTEND TO NEW PULL BOX. DETERMINE LOCATION OF EXISTING 2" CONDUIT TO TELEPHONE SERVICE, INTERCEPT CONDUIT AND EXTEND TO PULL BOX. REMOVE AND REINSTALL 1-22PR.#22 CONDUCTORS.
- INSTALL VIDEO CAMERA ON LUMINAIRE MAST ARM PER MANUFACTURER'S SPECIFICATIONS.
- FURNISH AND INSTALL OPTICOM EMERGENCY VEHICLE 3M MODEL 711 DETECTOR AND MODEL 138 CABLE FROM DETECTOR TO THE CONTROLLER. DETECTOR MOUNTING PER DETAIL ON THIS SHEET. FURNISH AND INSTALL 3M MODEL 754 PHASE DETECTOR IN CONTROLLER CABINET.
- RELOCATE EXISTING POLE PER POLE SCHEDULE. REMOVE EXISTING FOUNDATION.
- EXISTING I.C. CONDUCTORS AND TELEPHONE CONNECTION CAN BE REMOVED AND REUSED.
- ALL EXISTING LOOP DETECTION SHALL BE ABANDONED.
- REMOVE AND SALVAGE EXISTING POLE COMPLETE, RELOCATE SNS. REMOVE FOUNDATION.
- INSTALL SIGN PER DESIGNATION.



GENERAL NOTES

- ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST STATE OF CALIFORNIA, DEPT. OF TRANSPORTATION, STANDARD PLANS AND STANDARD SPECIFICATIONS, AND THE SPECIAL PROVISIONS FOR THIS PROJECT.
- UTILITIES SHOWN ON THESE PLANS ARE CORRECT AND ACCURATE TO THE EXTENT OF AVAILABLE RECORDS AND KNOWLEDGE. THE CONTRACTOR, HOWEVER, IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE SUCH FACILITIES OR INTERFERE WITH THEIR SERVICE.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 48 HOURS PRIOR TO START OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL PHASES OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED. VERIFY SERVICE LOCATION PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY SIGNAL OPERATIONS (714) 245-4589 48 HOURS PRIOR TO START OF CONSTRUCTION.
- ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
- THE ENGINEER SHALL APPROVE THE EXACT LOCATION OF ALL PULLBOXES, CONDUITS, LOOP DETECTORS, CONTROLLER AND POLES IN THE FIELD.
- ALL CONDUIT SHALL BE 2" UNLESS OTHERWISE SPECIFIED.
- ALL PULLBOXES SHALL BE NO. 5 UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR MAY PLACE CONDUIT BY JACKING OR DRILLING.
- ALL VEHICLE INDICATIONS SHALL BE 12" AND L.E.D. ALL PEDESTRIAN INDICATIONS SHALL BE L.E.D. COUNTDOWN TYPE.
- ALL NEW LOOPS SHALL HAVE 4-TURNS, BE 6" CIRCULAR, WITH 9" SPACING IN THE DIRECTION OF TRAVEL, CENTERED IN LANES UNLESS OTHERWISE SPECIFIED. INSTALL LOOPS WITH HOT-MELT RUBBERIZED ASPHALT SEALANT.
- ALL TRAFFIC LOOPS, SIGNING, PAVEMENT MARKERS AND STRIPING SHALL BE INSTALLED PRIOR TO TURN ON.
- ALL PULL BOX LIDS SHALL BE OF A NON-PCC MATERIAL PER CALTRANS SPECIFICATIONS AND STANDARD PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT ALL COMMUNICATION EQUIPMENT SUCH AS MODEM, SWITCHES, ETC. AND EXISTING FIBER OPTIC CABLE & I.C. WHEN TRANSFER FROM OLD TO NEW CABINET AND REINSTALL IT TO BE FULLY FUNCTIONAL AS EXISTING STATE.

19. HANDLING FIBER OPTIC CABLE SHALL BE BY CERTIFIED FIBER OPTIC TECHNICIAN/PERSONNEL WHEN REMOVING, RE-USING AND INSTALLING FIBER OPTIC CABLE

20. CONTRACTOR SHALL PROVIDE NEW I.C. AND FIBER OPTIC CABLE FROM THIS LOCATION TO NEXT CONTROLLER CABINET IF NOT ENOUGH SLACK.

Underground Service Alert

of Southern California

Call: TOLL FREE

1-800-227-2600

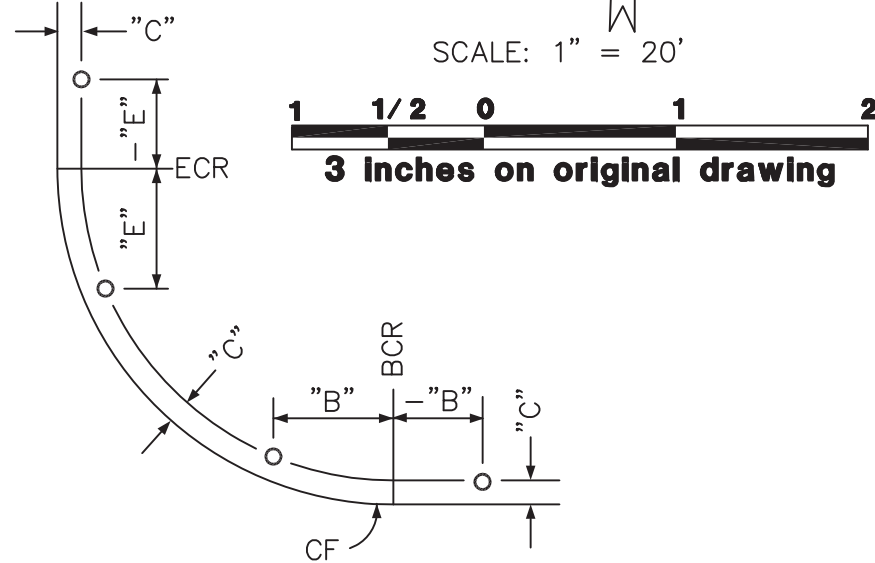
TWO WORKING DAYS BEFORE YOU DIG

OSO PKWY

ANTONIO PKWY

POLE LOCATION DETAIL

NO SCALE



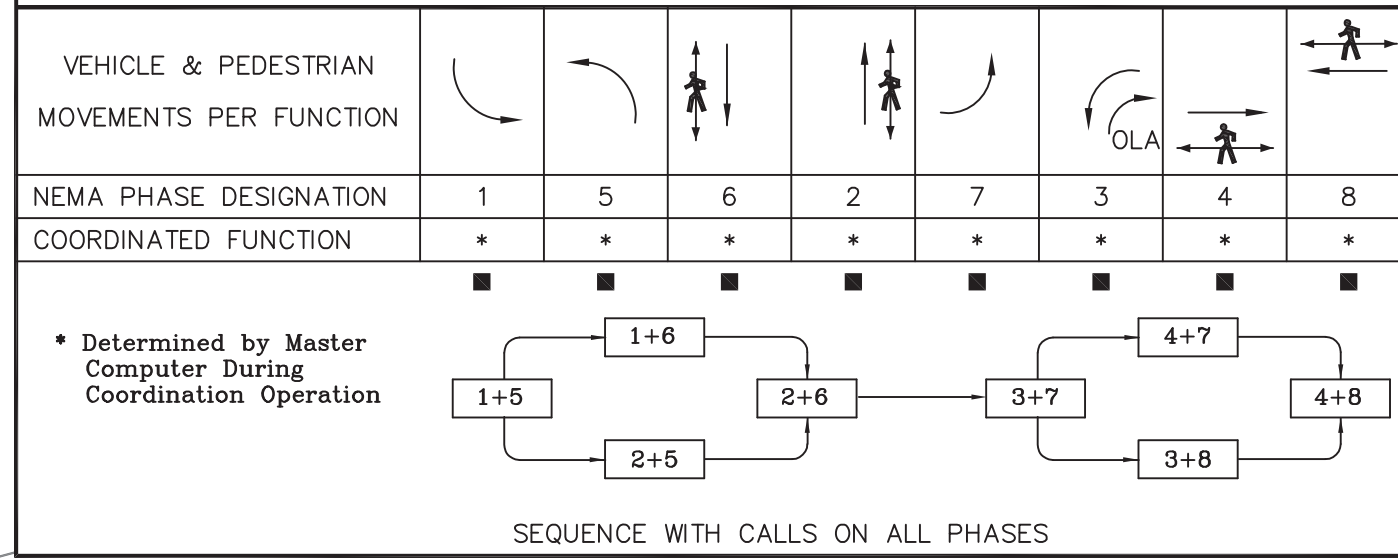
POLE SCHEDULE											
POLE DATA			SIGNAL		LED LUM		SIGNAL HEADS AND MOUNTINGS			PED. PUSH BUTTON	
NO.	TYPE	HEIGHT	M.A.	M.A.	WATTS		VEHICULAR	M.A.	PEDESTRIAN*	TYPE	PHASE
(A)	61-5-100	30'	65'	15'	166		SV-1-T	3 MAS	SP-1-CS	B	4P
(B)	PPB POST	4'7"	-	-	-		-	-	-	-	-
(C)	15 TS***	30'	-	15***	166		SV-2-TA(R)	-	SP-1-CS(R)	B	6P
(D)	29-5-100	30'	55'	15'	166		SV-1-T	3 MAS	SP-1-CS	B	6P
(E)	15 TS***	30'	-	15***	166		SV-2-TA(R)	-	SP-1-CS(R)	B	8P
(F)	61-5-100	30'	65'	15'	166		SV-1-T	2 MAS	SP-1-CS	B	-
(G)	PPB POST	4'7"	-	-	-		-	-	-	B	8P
(H)	15 TS***	30'	-	15***	166		SV-2-TA(R)	-	SP-1-CS(R)	B	2P
(I)	61-5-100	30'	65'	15'	166		SV-1-T	3 MAS(R)	SP-1-CS(R)	B	2P
(J)	15 TS***	30'	-	15***	166		SV-2-TA(R)	-	SP-1-CS(R)	B	4P

* ALL PEDESTRIAN HEADS SHALL BE L.E.D. COUNTDOWN TYPE - RELOCATED PEDESTRIAN HEADS SHALL HAVE NEW L.E.D. COUNTDOWN MODULES

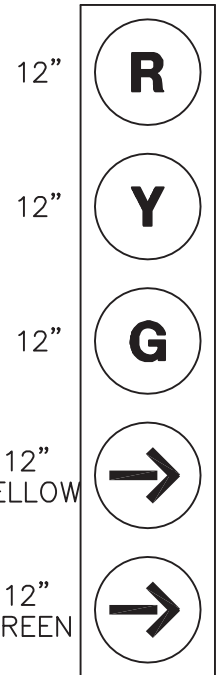
** - ALL EQUIPMENT IS NEW UNLESS NOTED (R) FOR RELOCATE

Δ2*** - COUNTY FURNISHED EQUIPMENT

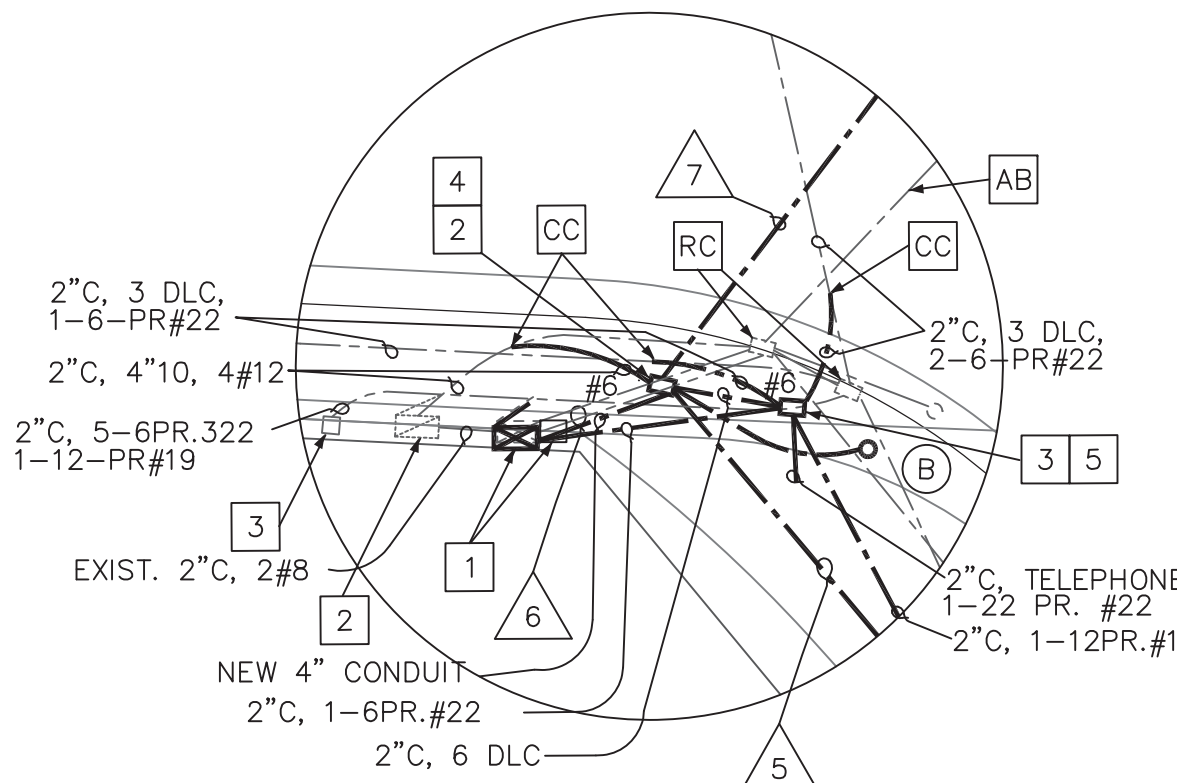
PHASE - FUNCTION - SEQUENCE DIAGRAM



DETAIL A



DETAIL B



CONDUCTOR			SCHEDULE							
AWG SIZE, WIRE OR CABLE TYPE	STD	PHASES	CONDUIT SIZE AND RUN NUMBER							
			1	2	3	4	5	6	7	8
12 WIRE CONDUCTOR CABLE 11-#14 1-#12	(A)	#1, #6, #6P	-	-	-	-	1/0	1/0	-	-
	(B)	/#4PPB	-	-	-	-	0/1	0/1	-	-
	(C)	#3, #4, #4P	-	-	-	-	-	1/1	-	-
	(D)	#3, #8, #8P	-	-	-	-	-	1/1	1/1	-
	(E)	#5, #6, #6P	-	-	-	-	-	1/1	1/1	1/1
	(F)	#2, #5, OLA, #2P	-	1/1	1/1	1/1	1/1	1/1	-	-
	(G)	/#8PPB	0/1	0/1	0/1	0/1	0/1	0/1	-	-
	(H)	#7, #8, #8P	-	1/1	1/1	1/1	1/1	1/1	-	-
	(I)	#4, #7, #4P	-	-	1/1	1/1	1/1	1/1	-	-
	(J)	#1, #2, OLA, #2P	-	-	-	1/2	1/2	1/2	-	-
3 WIRE CONDUCTOR CABLE (3-#14, PPB)			1/2	2/3	3/4	4/5	5/7	8/10	2/2	1/1
#10	LUMINAIRE		2	2	2	2	2	-	2	2
#12	I.S.N.S.		2	2	2	2	2	-	2	-
3-#16	VIDEO POWER CABLE		1	1	2	2	3	4	1	-
*	VIDEO CABLE		1	1	2	2	3	4	1	-
OPTICOM CABLE			1	1	2	2	3	4	1	-
TYPE C DLC	#2		-	-	-	3	3	3	-	-
	#4		-	-	-	-	3	-	-	-
	#6		-	-	-	-	-	4	-	-
	#8		-	-	-	3	3	3	-	-
			-	-	-	-	-	-	-	-
TOTAL				3	3	3	6	6	6	13
PERCENT FILL			14	24	20	26	21	23	19	8
CONDUIT SIZES (INCHES)			3"	3"	4"	4"	1-3/4"	2-3/8"	3"	3"

* ALL CONDUCTORS EXCEPT I.C. CONDUCTORS SHALL BE NEW. ALL CONDUIT IS NEW UNLESS OTHERWISE SHOWN.

* - BELDON #3281 COAXIAL CABLE (IF APPLICABLE)



REVISED UNDER SUPERVISION OF:	9/19/19	T.E. DATE
RICARDO DIAZ, P.E., T.E.		
Δ2	NEW EQUIPMENT	9/19/19
Δ	PER COUNTY OF ORANGE	12/2018
MODIFICATIONS	DATE	APPR.
DESCRIPTION	DATE	APPR.

PREPARED UNDER THE RESPONSIBLE CHARGE OF:

REGISTERED PROFESSIONAL ENGINEER

JOE E. FOUST

No. 20258

Exp. 9-30-15

CIVIL

STATE OF CALIFORNIA

DATE 10-04-2013

COUNTY OF ORANGE

OC PUBLIC WORKS

DESIGNED BY: SR/AR

DRAWN BY: CT

CHECKED BY: CT

DRAWING CODE: XXXXX

JOB NO. 10-1411-01

PLOT DATE: 10-04-2013

SCALE: AS SHOWN

Stantec Consulting Inc.

19 Technology Drive, Suite 200

Costa Mesa, CA 92626

TEL: (949) 435-0000 FAX: (949) 435-0001

www.stantec.com

OSO PARKWAY WIDENING

TRAFFIC SIGNAL MODIFICATION PLAN

OSO PARKWAY AND

ANTONIO PARKWAY

Sheet Reference Number

19

OF 78