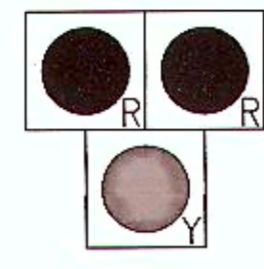
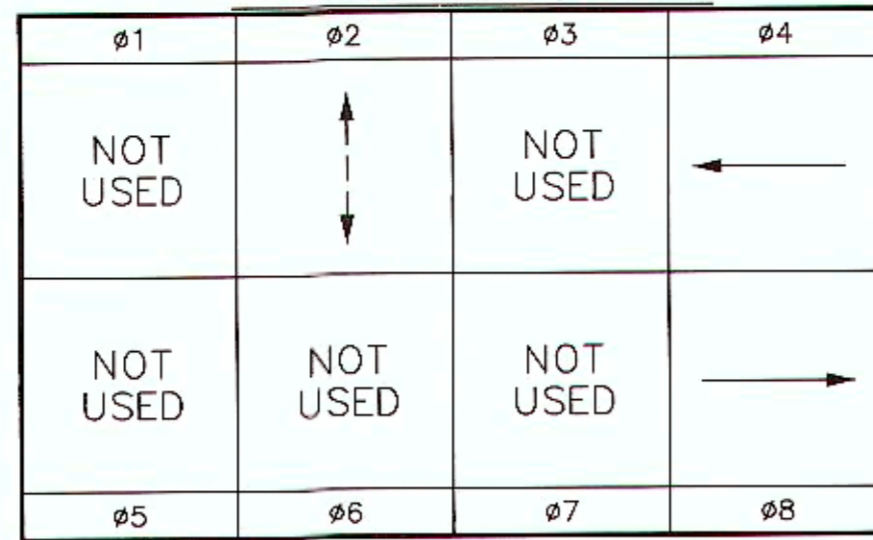


GENERAL NOTES

- ALL WORK, MATERIAL AND EQUIPMENT SHALL CONFORM TO THE REQUIREMENTS OF THE STATE OF CALIF., DEPT. OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS, (MOST RECENT) AND THE SPECIAL PROVISIONS FOR THE 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.
- FLASHING INDICATION SHALL FLASH RED ON ALL PHASES.
- THE CONTRACTOR SHALL CONTACT THE CITY TRAFFIC ENGINEER AT (714) 741-5185, A MINIMUM OF 48 HOURS BEFORE COMMENCING WORK.
- ALL NEW VEHICLE HEADS SHALL HAVE 12" SECTIONS, ALL RED AND YELLOW INDICATIONS SHALL BE I.T.E. APPROVED L.E.D.'S.
- ALL EXISTING EQUIPMENT TO BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
- ALL NEW POLE LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
- ANTI-SEIZE COMPOUND SHALL BE APPLIED TO ALL PUSH BUTTONS AND TERMINAL COMPARTMENT SCREWS.
- ALL NEW PULLBOXES SHALL BE NO. 6 UNLESS OTHERWISE NOTED.
- ALL NEW CONDUIT RUNS SHALL BE 3" SCHEDULE 80 PVC UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING IN THE DECORATIVE SIDEWALK AREA IN ORDER TO PREVENT ANY UNNECESSARY DAMAGE TO THE SIDEWALK.

PHASE DIAGRAM

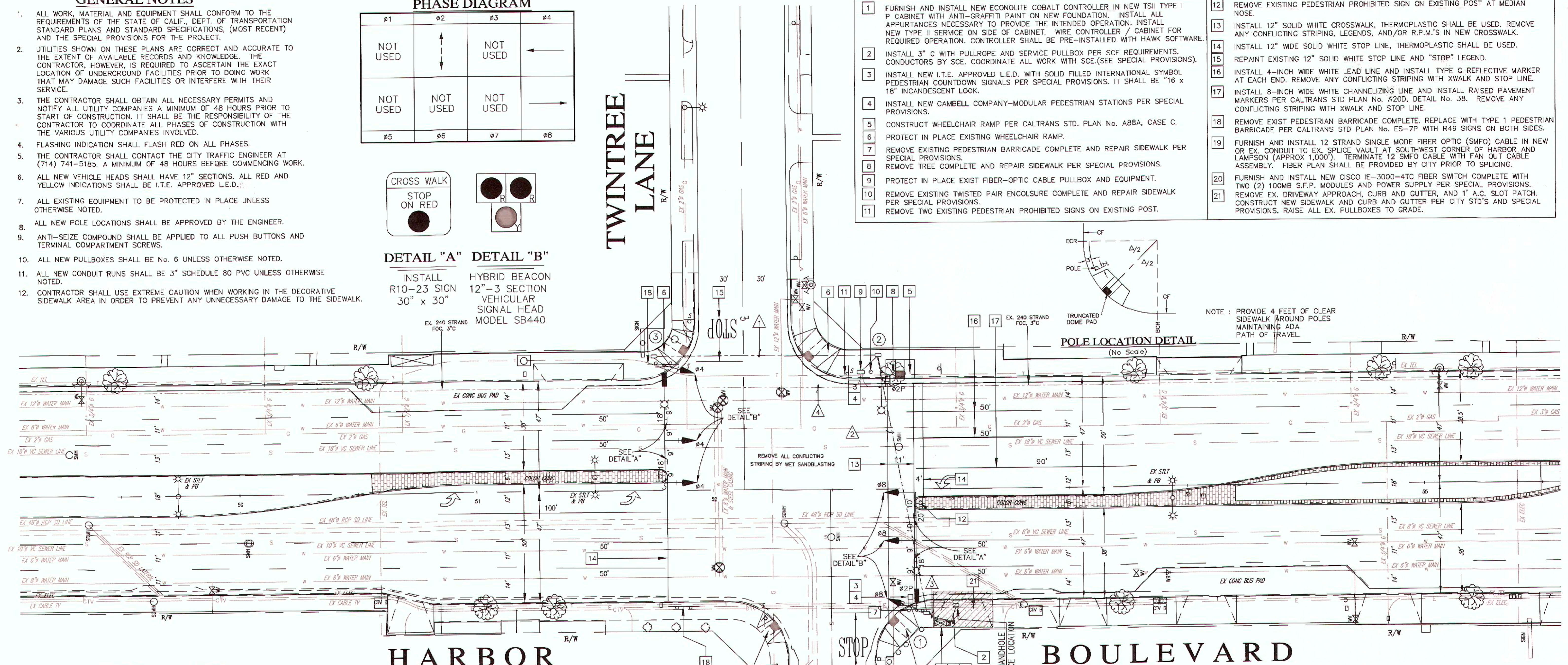


DETAIL "A"
INSTALL R10-23 SIGN 30" x 30"

DETAIL "B"
HYBRID BEACON 12"-3 SECTION VEHICULAR SIGNAL HEAD MODEL SB440

CONSTRUCTION NOTES

- FURNISH AND INSTALL NEW ECONOLITE COBALT CONTROLLER IN NEW TSI TYPE I P CABINET WITH ANTI-GRAFFITI PAINT ON NEW FOUNDATION. INSTALL ALL APPLIANCES NECESSARY TO PROVIDE THE INTENDED OPERATION. INSTALL NEW TYPE II SERVICE ON SIDE OF CABINET. WIRE CONTROLLER / CABINET FOR REQUIRED OPERATION. CONTROLLER SHALL BE PRE-INSTALLED WITH HAWK SOFTWARE.
- INSTALL 3" C WITH PULLROPE AND SERVICE PULLBOX PER SCE REQUIREMENTS. CONDUCTORS BY SCE. COORDINATE ALL WORK WITH SCE.(SEE SPECIAL PROVISIONS).
- INSTALL NEW I.T.E. APPROVED L.E.D. WITH SOLID FILLED INTERNATIONAL SYMBOL PEDESTRIAN COUNTDOWN SIGNALS PER SPECIAL PROVISIONS. IT SHALL BE "16 x 18" INCANDESCENT LOOK.
- INSTALL NEW CAMBELL COMPANY-MODULAR PEDESTRIAN STATIONS PER SPECIAL PROVISIONS.
- CONSTRUCT WHEELCHAIR RAMP PER CALTRANS STD. PLAN No. A88A, CASE C. PROTECT IN PLACE EXISTING WHEELCHAIR RAMP.
- REMOVE EXISTING PEDESTRIAN BARRICADE COMPLETE AND REPAIR SIDEWALK PER SPECIAL PROVISIONS.
- REMOVE TREE COMPLETE AND REPAIR SIDEWALK PER SPECIAL PROVISIONS.
- PROTECT IN PLACE EXIST FIBER-OPTIC CABLE PULLBOX AND EQUIPMENT.
- REMOVE EXISTING TWISTED PAIR ENCLOSURE COMPLETE AND REPAIR SIDEWALK PER SPECIAL PROVISIONS.
- REMOVE TWO EXISTING PEDESTRIAN PROHIBITED SIGNS ON EXISTING POST.
- REMOVE EXISTING PEDESTRIAN PROHIBITED SIGN ON EXISTING POST AT MEDIAN NOSE.
- INSTALL 12" SOLID WHITE CROSSWALK, THERMOPLASTIC SHALL BE USED. REMOVE ANY CONFLICTING STRIPING, LEGENDS, AND/OR R.P.M.'S IN NEW CROSSWALK.
- INSTALL 12" WIDE SOLID WHITE STOP LINE, THERMOPLASTIC SHALL BE USED.
- REPAINT EXISTING 12" SOLID WHITE STOP LINE AND "STOP" LEGEND.
- INSTALL 4-INCH WIDE WHITE LEAD LINE AND INSTALL TYPE G REFLECTIVE MARKER AT EACH END. REMOVE ANY CONFLICTING STRIPING WITH XWALK AND STOP LINE.
- INSTALL 8-INCH WIDE WHITE CHANNELIZING LINE AND INSTALL RAISED PAVEMENT MARKERS PER CALTRANS STD PLAN No. A20D, DETAIL No. 38. REMOVE ANY CONFLICTING STRIPING WITH XWALK AND STOP LINE.
- REMOVE EXIST PEDESTRIAN BARRICADE COMPLETE. REPLACE WITH TYPE 1 PEDESTRIAN BARRICADE PER CALTRANS STD PLAN No. ES-7P WITH R49 SIGNS ON BOTH SIDES.
- FURNISH AND INSTALL 12 STRAND SINGLE MODE FIBER OPTIC (SMFO) CABLE IN NEW OR EX. CONDUIT TO EX. SPLICE VAULT AT SOUTHWEST CORNER OF HARBOR AND LAMPSON (APPROX 1,000'). TERMINATE 12 SMFO CABLE WITH FAN OUT CABLE ASSEMBLY. FIBER PLAN SHALL BE PROVIDED BY CITY PRIOR TO SPLICING.
- FURNISH AND INSTALL NEW CISCO IE-3000-4TC FIBER SWITCH COMPLETE WITH TWO (2) 100MB S.F.P. MODULES AND POWER SUPPLY PER SPECIAL PROVISIONS.. REMOVE EX. DRIVEWAY APPROACH, CURB AND GUTTER, AND 1' A.C. SLOT PATCH. CONSTRUCT NEW SIDEWALK AND CURB AND GUTTER PER CITY STD'S AND SPECIAL PROVISIONS. RAISE ALL EX. PULLBOXES TO GRADE.

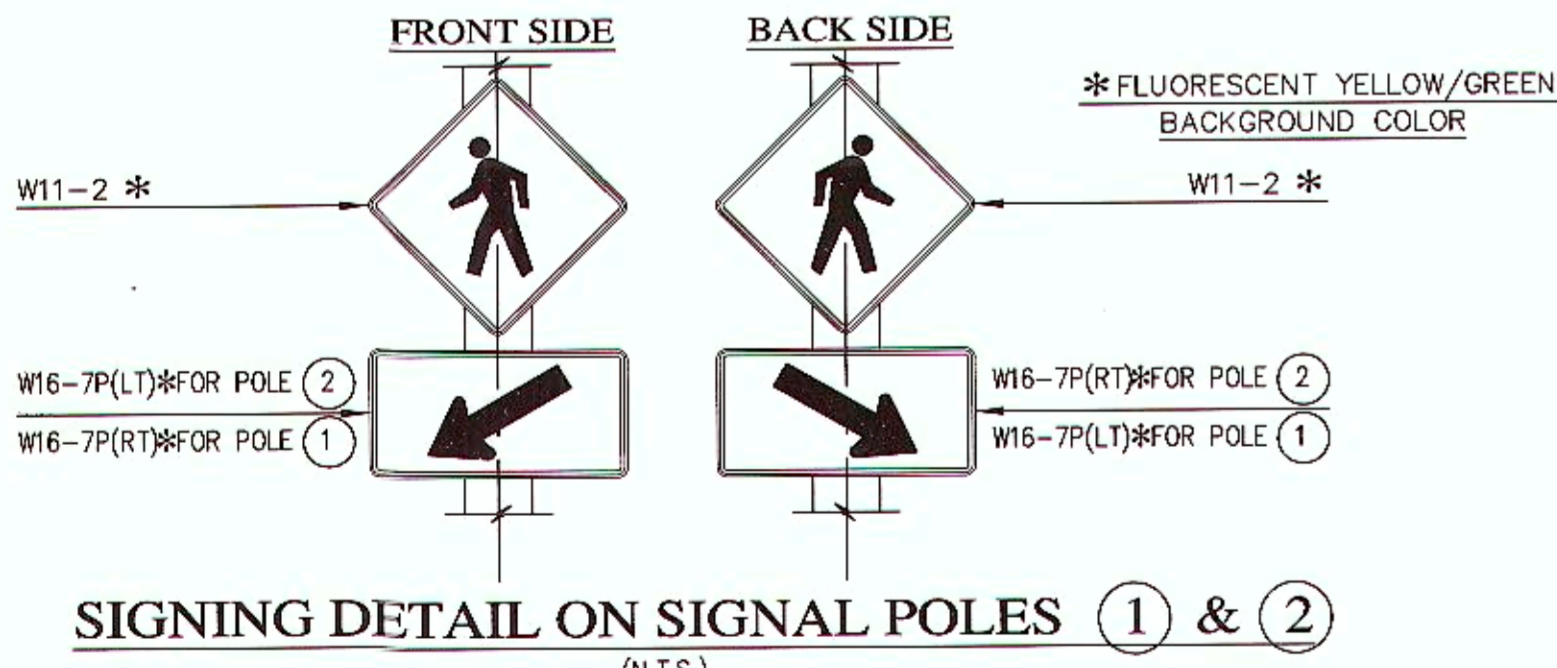


NOTE: PROVIDE 4 FEET OF CLEAR SIDEWALK AROUND POLES MAINTAINING ADA PATH OF TRAVEL.

HARBOR

BOULEVARD

TWINTREE LANE



CONDUCTOR SCHEDULE

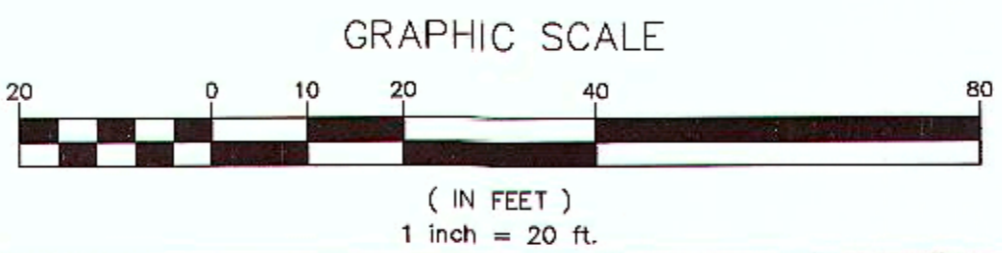
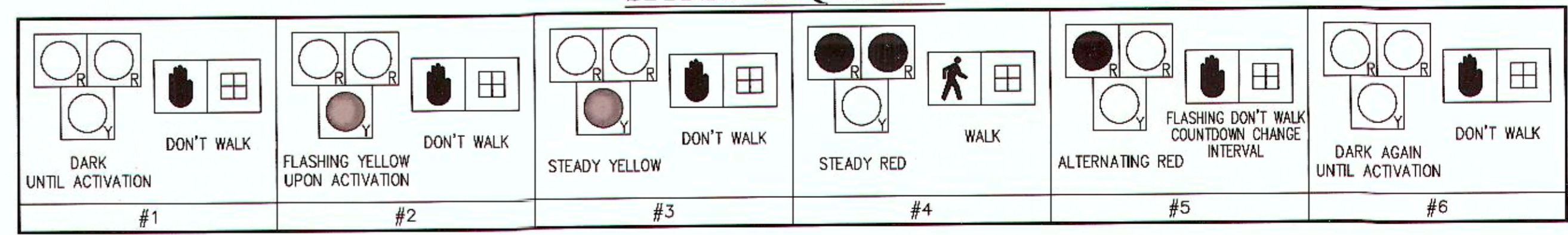
AWG	POLE	RUN No.			
		1	2	3	4
12c	① #8/Ø2P/2	1	1	1	1
	② #2P/2	1	1	1	1
	③ #4	1	1	1	1
	TOTAL	1	2	2	3
#12	I.I.S.N.S.	2	2	2	-
#10	LUMINAIRES	2	2	2	-
	12 STRAND F.O.C.	-	1	1	1
	240 STRAND F.O.C.	-	-	-	1(E)
	CONDUIT SIZE	3"	3"	2-4"	3"(E)

ALL NEW CABLES/CONDUCTORS, UNLESS SPECIFIED OTHERWISE.
ALL NEW CONDUITS, UNLESS SPECIFIED OTHERWISE.
ALL CONDUITS RUN SHALL INCLUDE A PULL ROPE.
(E) EXISTING

POLE SCHEDULE

NO.	POLE DATA STANDARD				LUMINAIRE LED	I.I.S.N.S. LEGEND	SIGNAL MOUNTING		PED. PUSH BUTTON	PHASE	REMARKS	
	TYPE	HEIGHT	SIG. M.A.	LUM. M.A.			VEHICLE	PED.				
①	29-5-100	30'	50'	15'	88W	TWINTREE	3MAS-3A	-	SP-1-T	S	2	-
②	15TS	30'	-	15'	88W	-	-	-	SP-1-T	N	2	-
③	29-5-100	30'	50'	15'	88W	TWINTREE	3MAS-3A	-	-	-	-	-

SIGNAL SEQUENCE



NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Underground Service Alert

811 Call: TOLL FREE

TWO WORKING DAYS BEFORE YOU DIG

City Of Garden Grove
Department Of Public Works

REV. 00 00/00/00

BENCH MARK: _____

DESIGNED BY: TA DRAWN BY: MCB CHECKED BY: DC

PLANS PREPARED UNDER SUPERVISION OF: _____

DATE: _____ RCE NO. 52125

REFERENCE PLANS FOR THESE IMPROVEMENTS: _____

DATE BY: _____ DESCRIPTION: _____ APP'D: _____

TRAFFIC ENGR. *Tommy...* RTE 2209
STREET SERV. MGR. *...*
WATER SERV. MGR. *...*
R/W AGENT *...*

APPROVED BY: *...* 01/31/15
CITY ENGINEER RCE#2125/RTE#1851 PUBLIC WORKS DIRECTOR RCE#50353

THIS PLAN IS SIGNED BY THE PUBLIC WORKS DEPARTMENT FOR CONCEPT AND ADHERENCE TO CITY STANDARDS AND REQUIREMENTS ONLY. THE PUBLIC WORKS DEPARTMENT IS NOT RESPONSIBLE FOR DESIGN, DESIGN ASSUMPTIONS OR ACCURACY.

HAWK - HIGH INTENSITY PEDESTRIAN CROSSWALK

HARBOR BLVD & TWINTREE LANE

DRAWING NUMBER: **T-911**
SHEET 1 OF 1