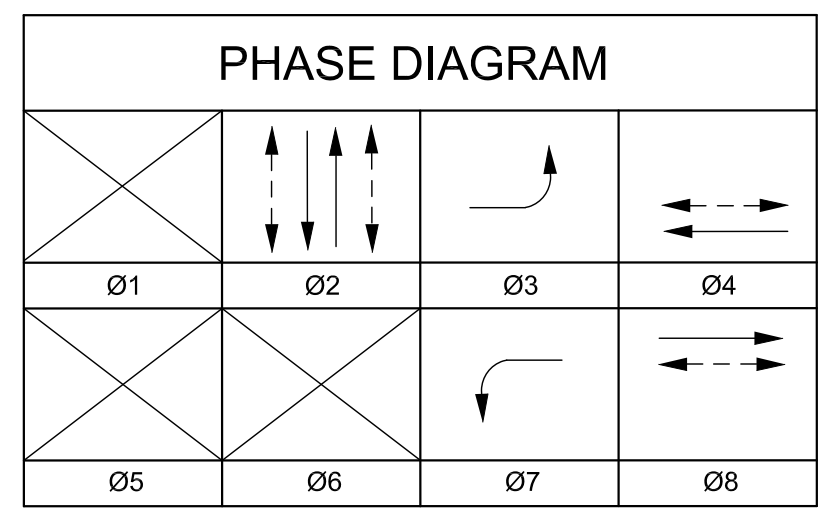


CONDUCTOR SCHEDULE							
POLE #	PHASES	1	2	3	4	5	6
12 WIRE CONDUCTOR CABLE	Ø3, Ø8, Ø8P, Ø2PPB	-	-	-	-	1	1
	Ø2, Ø2P, Ø8PPB	-	-	-	1	1	1
	Ø2, Ø7, Ø2P, Ø8P, Ø2PPB, Ø8PPB	-	-	1	2	-	1
	Ø4, Ø7, Ø4P, Ø2PPB	1	1	1	-	-	1
3 WIRE CONDUCTOR CABLE	Ø2, Ø2P, Ø4PPB	1	1	1	-	-	1
	Ø2, Ø3, Ø2P, Ø4P, Ø2PPB, Ø4PPB	-	1	2	-	-	1
TOTAL CABLES		2	2	3	4	1	2
TYPE B DLC CABLE	Ø4	-	-	-	-	1(E)	1(E)
	Ø8	-	-	1(E)	-	1(E)	1(E)
TOTAL		-	-	1(E)	-	2(E)	2(E)
#10	LUMINAIRE	2	2	-	-	2	2
#14	I.S.N.S	2	2	-	-	2	2
VIDEO DETECTION CABLE		2	2	-	-	4	4
CONDUIT SIZES		2"(E)	2"(E)	2"(E)	1"(E)	3"(E)	2-4"(E)

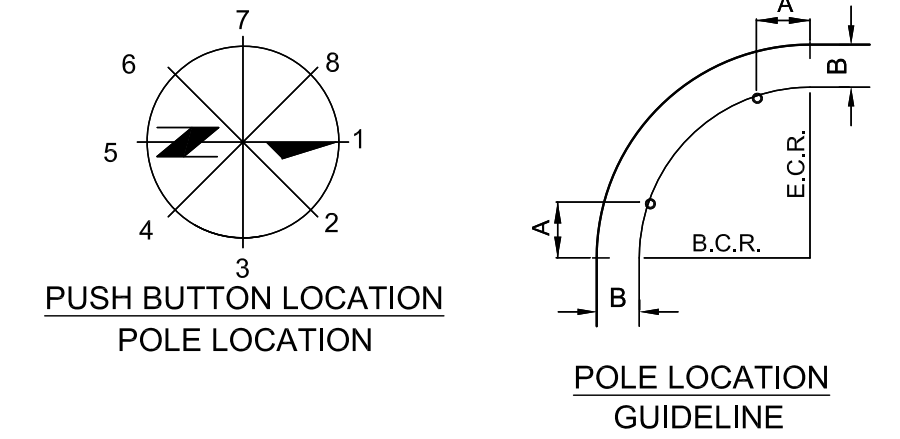
ALL CONDUCTORS ARE NEW, UNLESS OTHERWISE NOTED.  
(E) - EXISTING

NEW INSTALLATION QUANTITIES	
VIDEO DETECTION SYSTEM	1
VIDEO DETECTION CAMERA	4
ATC CONTROLLER	1
APS (PUSH BUTTON)	8
ETHERNET SWITCH	1



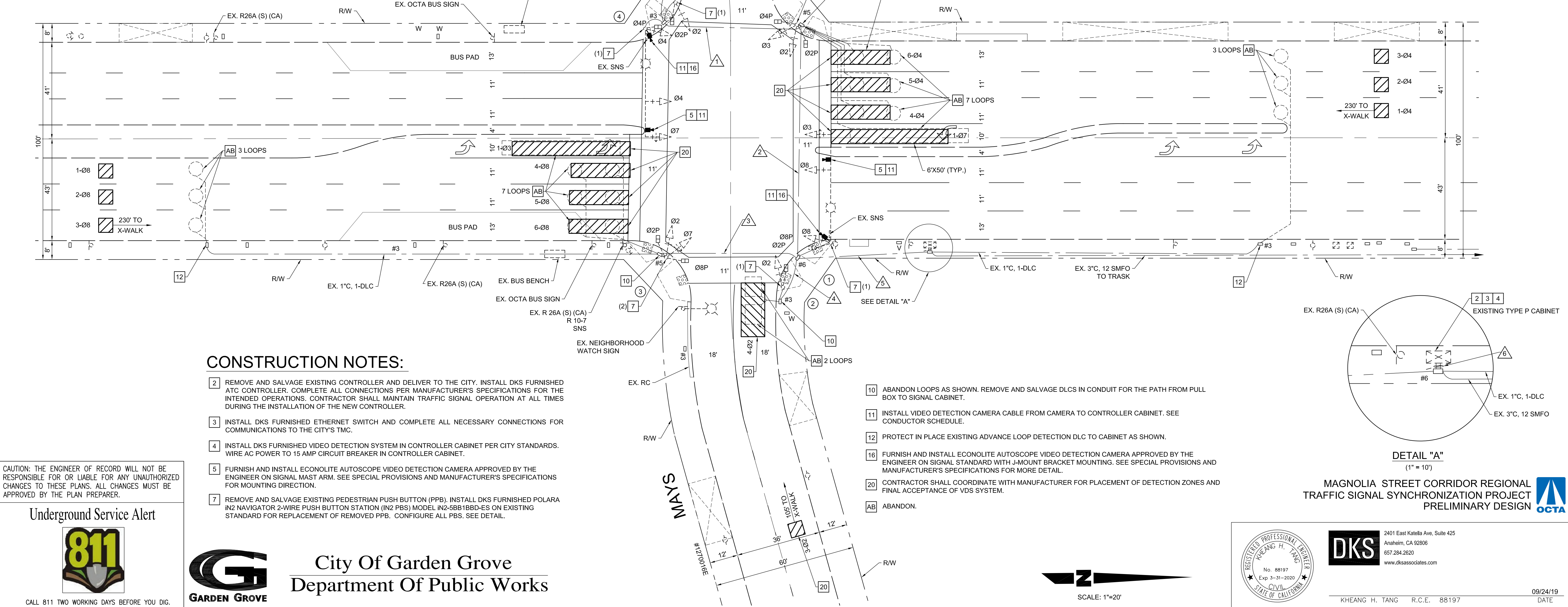
POLE SCHEDULE														
No.	TYPE	HEIGHT	SIGNAL	LUM	HPS LUMINAIRE	I.I.S.N.S. MESSAGE	SIGNAL MTGS			PED PUSH BTN *		LOCATION		REMARKS
							M.A.	POLE	PED	QUAD	Ø	ARW	A	
1	26-3-70	30'	45'	12'	200W	Mays	2-MAS	SV-1-T	SP-1-T(N)	5	Ø2(N)	←	EXISTING	
2	1-A	10'	-	-	-	-	-	TV-1-T	SP-1-T(N)	7	Ø8(N)	→	EXISTING	
3	1-A	10'	-	-	-	-	-	TV-2-T	SP-2-T(N)	3.5	Ø2(N), Ø8(N)	↔	EXISTING	
4	26-3-70	30'	45'	12'	200W	Mays	2-MAS	SV-1-T	SP-1-T(N)	1	Ø2(N)	←	EXISTING	
5	1-A	10'	-	-	-	-	-	TV-1-T	SP-1-T(N)	3	Ø4(N)	→	EXISTING	
6	1-A	10'	-	-	-	-	-	TV-2-T	SP-2-T(N)	1.7	Ø2(N), Ø4(N)	↔	EXISTING	

ALL EQUIPMENT IS EXISTING UNLESS OTHERWISE NOTED. (N) = NEW  
\* NEW APS PEDESTRIAN PUSH BUTTON ASSEMBLY



**GENERAL NOTES:**

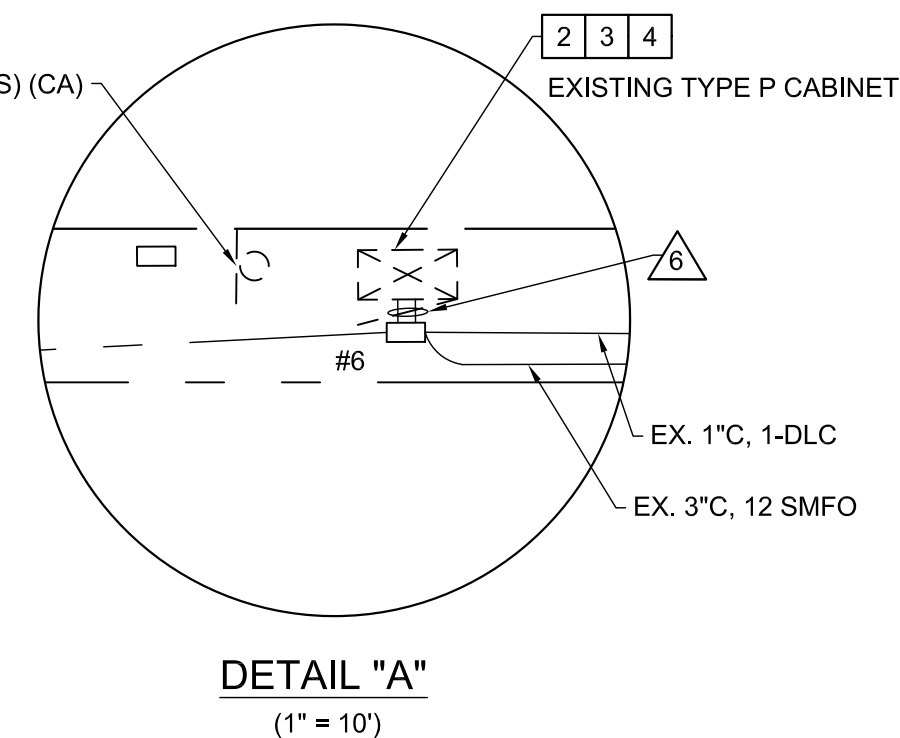
- ALL NEW PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL BE INSTALLED 40" FROM FINISH GRADE PER CALTRANS STANDARDS. CONTRACTOR SHALL PLUG AND SEAL ANY UNCOVERED HOLES IN SIGNAL POLES.
- CONTRACTOR TO REMOVE AND DELIVER TO CITY ALL UN-USED DETECTOR CARDS.
- CONTRACTOR TO REMOVE STOP BAR DETECTOR LOOP CABLES AND ABANDON STOP BAR DETECTOR LOOPS. ADVANCED DETECTOR LOOPS AND LOOP CABLES TO REMAIN.
- CONTRACTOR SHALL USE PULLING COMPOUND AND WATER WHEN PULLING CONDUCTORS THROUGH CONDUIT.
- CONTRACTOR SHALL SEAL UNDERGROUND CONDUITS WITH DUCT SEAL.



**CONSTRUCTION NOTES:**

- REMOVE AND SALVAGE EXISTING CONTROLLER AND DELIVER TO THE CITY. INSTALL DKS FURNISHED ATC CONTROLLER. COMPLETE ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS FOR THE INTENDED OPERATIONS. CONTRACTOR SHALL MAINTAIN TRAFFIC SIGNAL OPERATION AT ALL TIMES DURING THE INSTALLATION OF THE NEW CONTROLLER.
- INSTALL DKS FURNISHED ETHERNET SWITCH AND COMPLETE ALL NECESSARY CONNECTIONS FOR COMMUNICATIONS TO THE CITY'S TMC.
- INSTALL DKS FURNISHED VIDEO DETECTION SYSTEM IN CONTROLLER CABINET PER CITY STANDARDS. WIRE AC POWER TO 15 AMP CIRCUIT BREAKER IN CONTROLLER CABINET.
- FURNISH AND INSTALL ECONOLITE AUTOSCOPE VIDEO DETECTION CAMERA APPROVED BY THE ENGINEER ON SIGNAL MAST ARM. SEE SPECIAL PROVISIONS AND MANUFACTURER'S SPECIFICATIONS FOR MOUNTING DIRECTION.
- REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON (PPB). INSTALL DKS FURNISHED POLARA IN2 NAVIGATOR 2-WIRE PUSH BUTTON STATION (IN2 PBS) MODEL IN2-58B1BBD-ES ON EXISTING STANDARD FOR REPLACEMENT OF REMOVED PPB. CONFIGURE ALL PBS. SEE DETAIL.

- ABANDON LOOPS AS SHOWN. REMOVE AND SALVAGE DLCS IN CONDUIT FOR THE PATH FROM PULL BOX TO SIGNAL CABINET.
- INSTALL VIDEO DETECTION CAMERA CABLE FROM CAMERA TO CONTROLLER CABINET. SEE CONDUCTOR SCHEDULE.
- PROTECT IN PLACE EXISTING ADVANCE LOOP DETECTION DLC TO CABINET AS SHOWN.
- FURNISH AND INSTALL ECONOLITE AUTOSCOPE VIDEO DETECTION CAMERA APPROVED BY THE ENGINEER ON SIGNAL STANDARD WITH J-MOUNT BRACKET MOUNTING. SEE SPECIAL PROVISIONS AND MANUFACTURER'S SPECIFICATIONS FOR MORE DETAIL.
- CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR PLACEMENT OF DETECTION ZONES AND FINAL ACCEPTANCE OF VDS SYSTEM.
- ABANDON.



CAUTION: THE ENGINEER OF RECORD WILL NOT BE RESPONSIBLE FOR OR LIABLE FOR ANY UNAUTHORIZED CHANGES TO THESE PLANS. ALL CHANGES MUST BE APPROVED BY THE PLAN PREPARER.

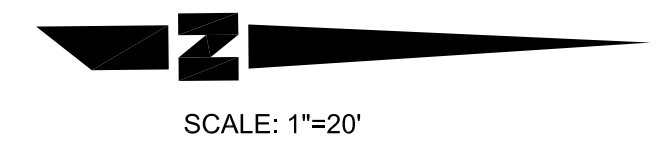
**Underground Service Alert**



CALL 811 TWO WORKING DAYS BEFORE YOU DIG.



**City Of Garden Grove**  
Department Of Public Works



KHEANG H. TANG R.C.E. 88197

09/24/19 DATE

BENCH MARK :	ELEV. :
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DESIGNED BY	DRAWN BY	CHECKED BY
L.T.	N.G./Y.L.	K.Y.C.
PLANS PREPARED UNDER SUPERVISION OF		
KHEANG H. TANG		
DATE	R.C.E. No.	
09/24/19	88197	

REFERENCE PLANS FOR THESE IMPROVEMENTS	DATE	BY	DESCRIPTION	APP'D

WATER SERVICES MGR.	
STREET DIVISION MGR.	
CITY TRAFFIC ENGR.	
REAL PROPERTY AGENT	

APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
CITY ENGINEER R.C.E. No. 52125 DIRECTOR OF PUBLIC WORKS  
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.

TRAFFIC SIGNAL MODIFICATIONS  
**MAGNOLIA STREET AT MAYS AVENUE**  
DRAWING NUMBER  
**T-919.2**  
SHEET 2 OF 7

TRAFFIC SIGNAL MODIFICATIONS AT VARIOUS LOCATIONS