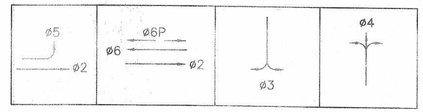
CONDUCTOR SCHEDULE

AWG	CIRCUIT	RUN 1	2	3	4	5	6	7	8
#14	ø1 SIGNALS								
	ø2 SIGNALS	3	3	3	3	3	3		
	ø3 SIGNALS	3	3	3	3	3	3		
	ø4 SIGNALS	3	3					3	
	ø5 SIGNALS	6	6	3	3	3	3	3	3
	ø6 SIGNALS	6	6	3				3	3
	ø7 SIGNALS								
	ø8 SIGNALS								
	ø2 PED								
	ø4 PED								
	ø6 PED	4	4	2				2	2
	ø8 PED								
	ø2 PPB								
	ø4 PPB								
	ø6 PPB	1	1					1	
	ø8 PPB								
	PEU		3					3	
	SPARES	6	6	3	3	3	3	3	3
	TOTAL #14	32	35	17	12	12	12	18	11
#12	PPB COMMON	1	1					1	
#8	SERVICE	3							
	LUMINAIRE		4	2	2	2	2	2	
	SIGNAL COMMON	1	1	1	1	1	1	1	1
DLC	ø1 DETECTORS								
	ø2 DETECTORS	3	3	3	3				
	ø3 DETECTORS	3							
	ø4 (VIDEO)								
	ø5 DETECTORS	1	1	1					
	ø6 DETECTORS	3	3	1	1	1	1	2	2
	ø7 DETECTORS								
	ø8 DETECTORS								
	ø2 SAMPLER	1	1	1	1	1	1		
	ø6 SAMPLER	2	2	2					
	TOTAL	13	10	8	5	2	2	2	2
EVP CABLE (OPTICAL)		4	4	3	2	2	1	1	
EVP CABLE (GPS)		1	1	1					
PPB NAVIGATOR CABLE				1					1
VIDEO DETECTION CAMERA (POWER,VIDEO)		1	1	1	1	1	1		
PTZ CAMERA WIRING (POWER,VIDEO&DATA)		1	1	1					
CONDUIT SIZE		2-4"	4"	4"	3"	3"	3"	3"	3"
PERCENT FILL		10%	17%	11%	10%	10%	9%	9%	6%

SENSOR TABLE

CH	DET	LOOP DETECTORS	
1	1	5A	(4)
2		2A	(1)
3		4A	(VIDEO ZONE)
4		6A	(1)
1	2	3A	(4)
2		3B	(4)
3		2B	(1)
4		6B	(1)
1	3	2C	(1)
2		3C	(2)
3		6C	(1)
4			
1	4	2D SAMPLER	(1)
2		6D SAMPLER	(1)
3		6E SAMPLER	(1)
4			

( ) LOOPS PER SENSOR



EVA = ø2,ø5
EVB = ø4
EVC = ø6
EVD = ø3

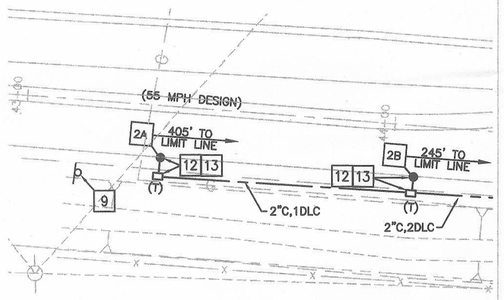
PHASE DIAGRAM

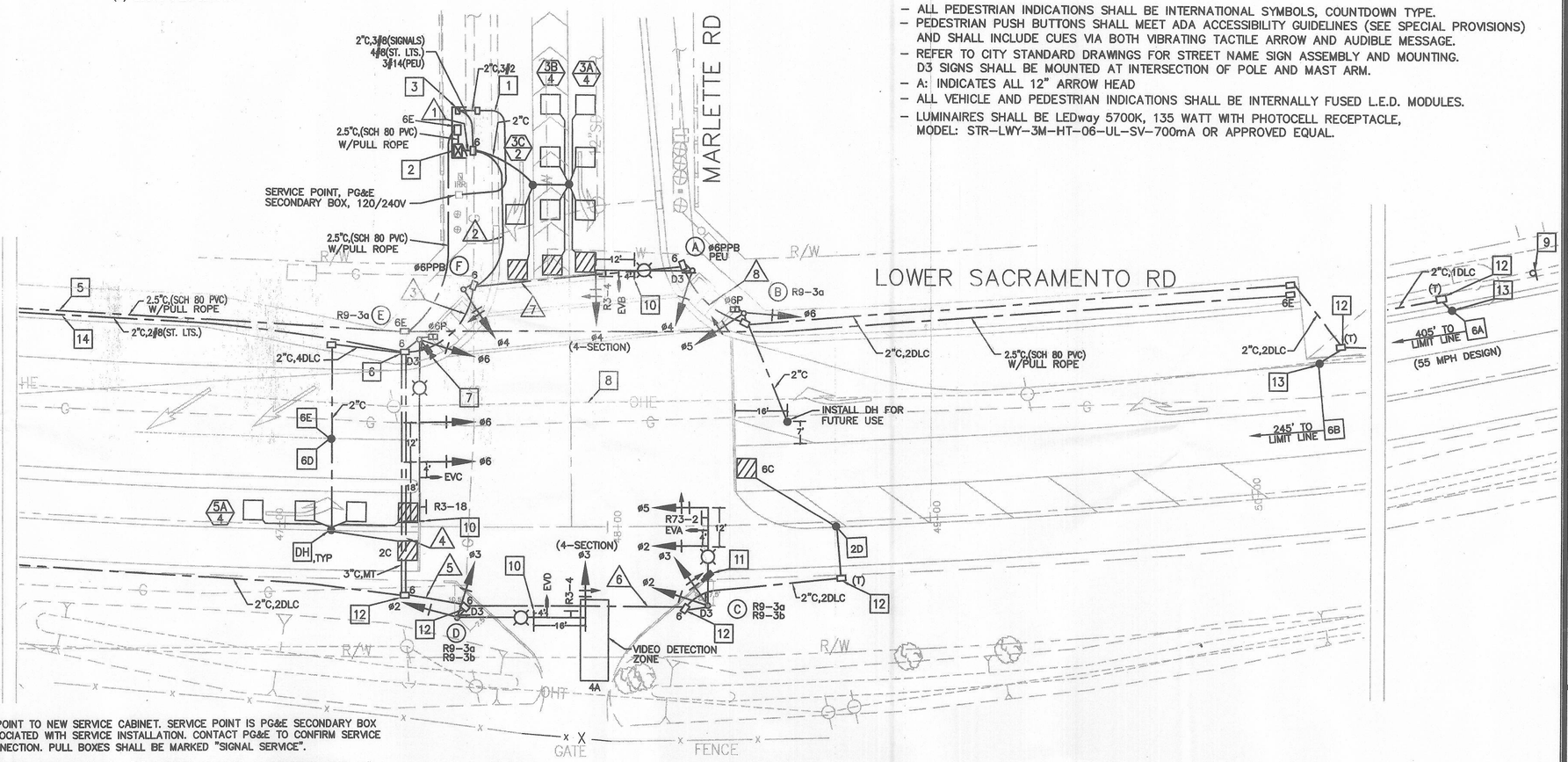
1"=20'

EQUIPMENT SCHEDULE

LOC	POLE TYPE	POLE HGT	MAST ARM SIG	MAST ARM LUM	LUMINAIRE	SIGNAL MOUNTING PHASE	SECTION	VEHICLE	PED	PPB	REMARKS
A	19-4-100	30'	30'	15'	5700K LED 135W	ø4 ø4	A,12" 12"	MAS-4B SV-1-T		ø6 LEFT	INSTALL R3-4 SIGN AND D3 "Lower Sacramento Rd" SIGN, PEU. 4 10
B	1-B	10'				ø5 ø6	A 12"	TV-2-T	ø6P SP-1-T		INSTALL R9-3a SIGN.
C	19-4-100	30'	30'	15'	5700K LED 135W	ø5 ø2 ø2 ø3	A 12" 12" A	MAS SV-2-T			INSTALL R73-2 SIGN AND D3 "Marlette Rd" SIGN. INSTALL R9-3a, R9-3b SIGNS. 4 11
D	26-4-100	30'	40'	15'	5700K LED 135W	ø3 ø3 ø2	A,12" 12" 12"	MAS-4B SV-2-T			INSTALL R3-4 SIGN AND D3 "Lower Sacramento Rd" SIGN. INSTALL R9-3a, R9-3b SIGNS. 4
E	29-5-100	30'	55'	15'	5700K LED 135W	ø6 ø6 ø6	12" 12" 12"	MAS SV-1-T	ø6P SP-1-T		INSTALL R3-18 SIGN AND D3 "Marlette Rd" SIGN. INSTALL R9-3a SIGN. 4 6 7 10
F	1-B	10'				ø4	A	TV-1-T		ø6 RIGHT	

- ALL PEDESTRIAN INDICATIONS SHALL BE INTERNATIONAL SYMBOLS, COUNTDOWN TYPE.
- PEDESTRIAN PUSH BUTTONS SHALL MEET ADA ACCESSIBILITY GUIDELINES (SEE SPECIAL PROVISIONS) AND SHALL INCLUDE CUES VIA BOTH VIBRATING TACTILE ARROW AND AUDIBLE MESSAGE.
- REFER TO CITY STANDARD DRAWINGS FOR STREET NAME SIGN ASSEMBLY AND MOUNTING. D3 SIGNS SHALL BE MOUNTED AT INTERSECTION OF POLE AND MAST ARM.
- A: INDICATES ALL 12" ARROW HEAD
- ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE INTERNALLY FUSED L.E.D. MODULES.
- LUMINAIRES SHALL BE LEDway 5700K, 135 WATT WITH PHOTOCELL RECEPTACLE, MODEL: STR-LWY-3M-HT-06-UL-SV-700mA OR APPROVED EQUAL.

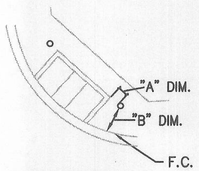




CONSTRUCTION NOTES (THIS SHEET ONLY):

1. COORDINATE WITH PG&E FOR SERVICE INSTALLATION. INSTALL 3"C, 3#2 FROM SERVICE POINT TO NEW SERVICE CABINET. SERVICE POINT IS PG&E SECONDARY BOX (120/240V) AT SW CORNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH SERVICE INSTALLATION. CONTACT PG&E TO CONFIRM SERVICE POINT AND COORDINATE INSPECTION AND CONNECTION HOOK-UP. PG&E WILL MAKE CONNECTION. PULL BOXES SHALL BE MARKED "SIGNAL SERVICE".
2. FURNISH AND INSTALL TYPE 2070N TRAFFIC SIGNAL CONTROLLER WITH AUXILIARY EQUIPMENT HOUSED IN A TYPE "P" CABINET MOUNTED ON CONCRETE BASE 18" ABOVE SIDEWALK GRADE. CONTROLLER & CABINET SHALL INCLUDE ALL EQUIPMENT NECESSARY TO OPERATE THESE PLANS IN COMPATIBILITY WITH THE CITY OF STOCKTON TRAFFIC SIGNAL MASTER SYSTEM. CONTROLLER CABINET SHALL INCLUDE FIBER OPTIC VIDEO AND DATA MODEMS, VIDEO AND DATA DIGITAL NETWORKING EQUIPMENT AND ALL ASSOCIATED EQUIPMENT PER THE SPECIAL PROVISIONS. CABINET SHALL INCLUDE A DUAL USE 4-CHANNEL PRIORITY CONTROL SYSTEM PHASE SELECTOR AND AUXILIARY PANEL WITH ALL WIRING AND ASSOCIATED EQUIPMENT PER MANUAFACTURER REQUIREMENTS FOR PRE-EMPTION ACTIVATION. CONTROLLER CABINET DOOR SHALL OPEN TO THE STREET. REFER TO FOUNDATION DETAILS A AND E, SHEET TS-3.
3. FURNISH AND INSTALL TYPE III-AF ELECTRICAL SERVICE ON BASE. REFER TO DETAILS, SHEET TS-3. INSTALL PEU IN CABINET. REFER TO SPECIAL PROVISIONS FOR INSTALLATION OF BACK-UP PEU ON POLE (A).
4. INSTALL OPTICAL DETECTOR ON SIGNAL MAST ARM. MAST ARM SHALL HAVE A WELDED HUB WITH MOUNT HOLE ON BACK OF MAST ARM (GALVANIZED AFTER ASSEMBLY) FOR DETECTOR MOUNTING (REFER TO PLAN FOR LOCATION).
5. INSTALL 2.5"C WITH PULL ROPE TO END OF SIDEWALK IMPROVEMENTS, TERMINATE IN NO. 6E PULL BOX.
6. INSTALL GPS EVP CABLE TO PULL BOX. COIL AND LABEL 40' OF CABLE IN PULL BOX FOR FUTURE USE.
7. FURNISH AND INSTALL ONE PTZ CAMERA ON POLE BELOW LUMINAIRE ARM. INSTALLATION SHALL INCLUDE ALL MOUNTING HARDWARE, VIDEO, DATA AND POWER CABLES, FIELD AND CENTRAL COMMUNICATION MODEMS (VIDEO/DATA) AND ASSOCIATED EQUIPMENT. CONTACT CITY TRAFFIC ENGINEERING (209-937-8411) PRIOR TO CAMERA INSTALLATION. REFER TO SPECIAL PROVISIONS FOR EQUIPMENT SPECIFICATIONS. REFER TO SHEET TS-3 FOR CAMERA MOUNTING BRACKET DETAILS.
8. EXISTING OVERHEAD ELECTRICAL LINES TO BE UNDERGROUNDED BY PG&E. REFER TO PG&E PLAN FOR COORDINATION.
9. INSTALL W3-3 SIGN PER SIGNING & STRIPING PLAN SHEET.
10. PROVIDE TENON FOR FUTURE USE, CAP TENON.
11. FURNISH AND INSTALL VIDEO DETECTION CAMERA ON SIGNAL MAST ARM WITH 28" RISER FOR PHASE 4 DETECTION. SEE DETAIL SHEET TS-3. INSTALLATION SHALL INCLUDE CABLES TO CAMERA AND ASSOCIATED CABINET EQUIPMENT.
12. PULL BOX IN NATIVE SOIL SHALL HAVE A 12" CONCRETE COLLAR, 6" DEEP.
13. DETECTOR HANDHOLE ADJACENT TO E.P. OR LIP SHALL HAVE A 6" CONCRETE COLLAR, 4" DEEP.
14. INSTALL 2"C,2#8 TO ROADWAY LIGHT. SEE SHEET 5 FOR STREET LIGHT POLE LOCATION.

THIS PLAN ACCURATE FOR ELECTRICAL WORK ONLY



POLE LOCATION DETAIL
NTS

POLE LOCATION	"A" DIMENSION	"B" DIMENSION
A	2'	5.5'
B	2'	5.5'
C	SEE PLAN	SEE PLAN
D	SEE PLAN	SEE PLAN
E	2'	5.5'
F	2'	7.0'

NOTE: POSITIONING OF SIGNAL STANDARDS, PULLBOXES, DETECTORS AND CABINET EQUIPMENT SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION. DIMENSIONS ARE TO EDGE OF POLE BASE.

NOTE:
THESE PLANS ARE SUBJECT TO THE SPECIAL PROVISIONS FOR TRAFFIC SIGNALS AND SAFETY LIGHTING INSTALLATION AT LOWER SACRAMENTO ROAD / MARLETTE ROAD.

REVISIONS

SYMBOL	DATE	DESCRIPTION	BY	APPROVED

KD Anderson
Transportation Engineers
3853 Taylor Road, Suite G
Loomis, California 95650
(916)660-1555

TRAFFIC SIGNAL PLAN

MARLETTE ROAD / LOWER SACRAMENTO ROAD INTERSECTION IMPROVEMENTS

DATE: 2/6/14

FILE NAME: MARLETTE & L SAC

MARLETTE ROAD / LOWER SACRAMENTO ROAD INTERSECTION IMPROVEMENTS

TRAFFIC SIGNAL PLAN

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: 1"=20'
DESIGNED BY: MB
DRAWN BY: MB
CHECKED BY: KDA
RECORD DWG:

APPROVED BY:
CITY ENGINEER STOCKTON, CA.
DATE: 3/6/14

SHEET NO. TS-1 OF 15

JOB NO.

5202.BC