

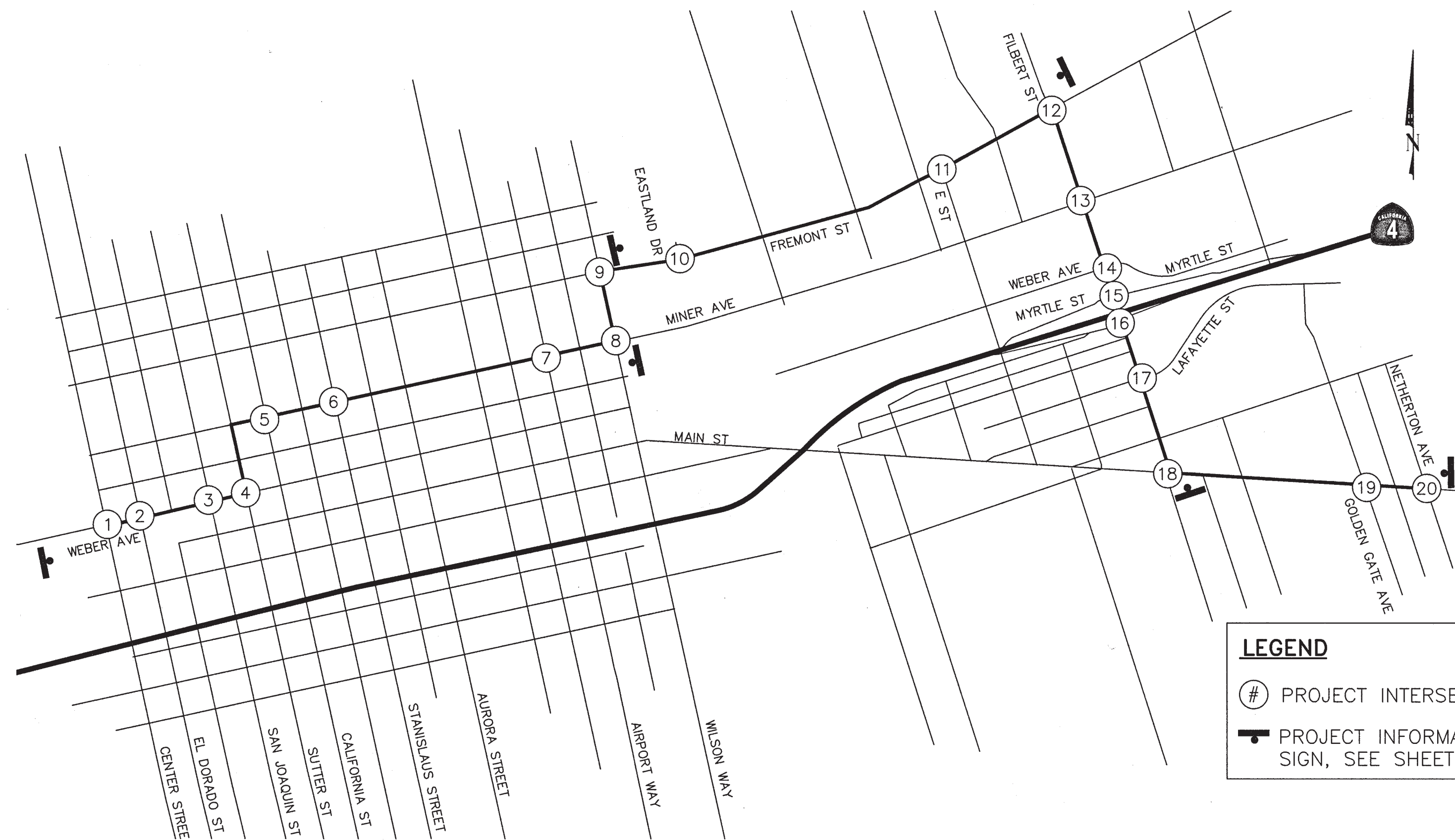
# BUS RAPID TRANSIT PROJECT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

## FEDERAL AID PROJECT NO. CML-5008(149) CITY OF STOCKTON PROJECT NO. PW1516

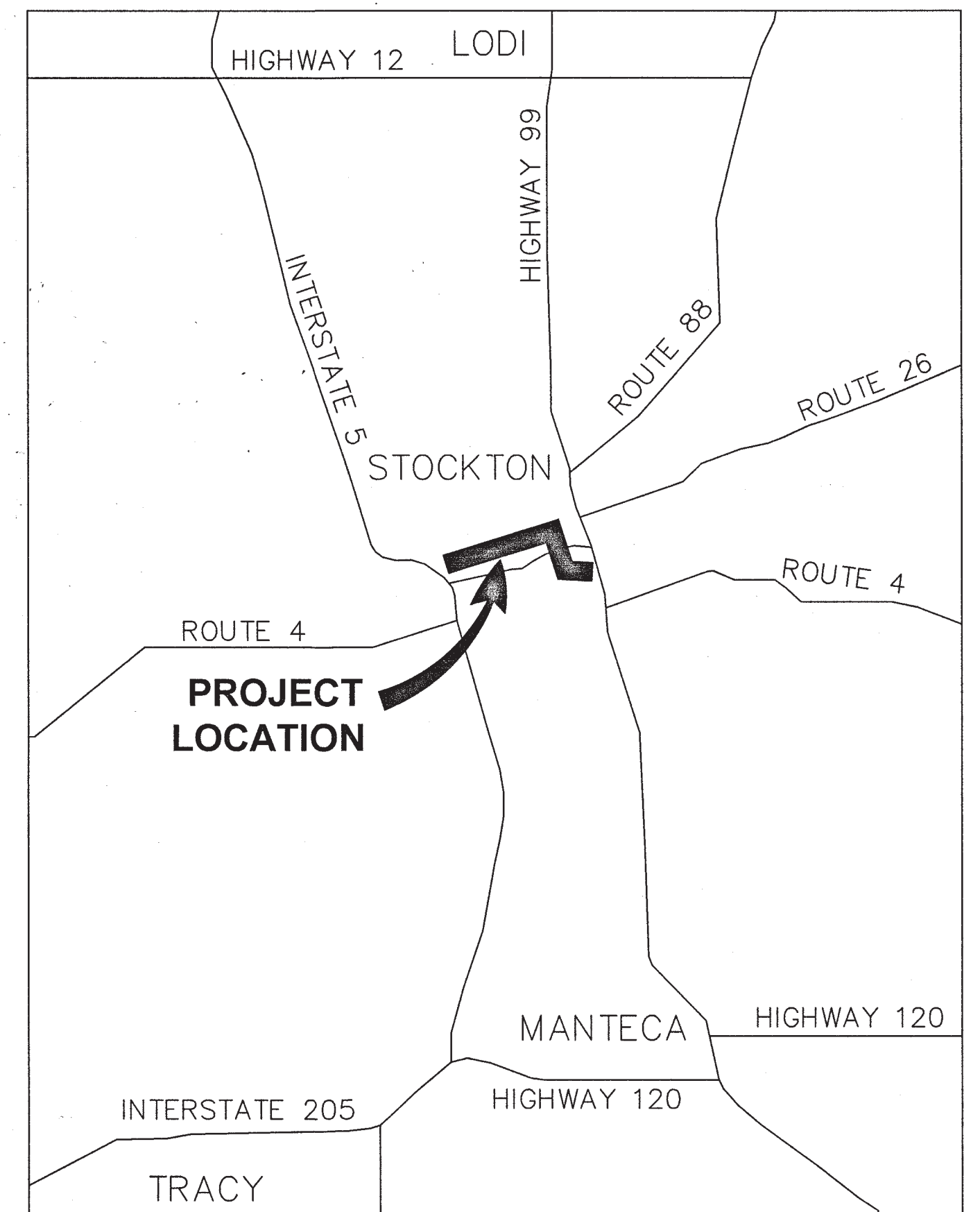
PREPARED FOR: CITY OF STOCKTON

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**PROJECT LOCATION MAP**  
NOT TO SCALE



**PROJECT VICINITY MAP**  
NOT TO SCALE

### LEGEND

- ⊙ PROJECT INTERSECTION
- T PROJECT INFORMATION SIGN, SEE SHEET GN-1

Dec 19, 2019 - 10:19am - USER: jsmith@pw1516 - Stockton BRT V - KGA\_VA\_CADD/Share/V\_Cv.dwg

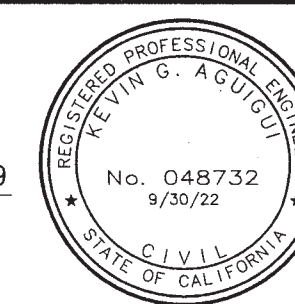


NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
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DESIGNED UNDER THE SUPERVISION OF:

*Kevin G. Aguigui*  
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R.C.E. No. 048732, EXP. 9/30/22  
DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY,  
FREEMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

### COVER SHEET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED: <i>[Signature]</i> DATE: 12/31/20	PROJECT NO. PW1516
SCALE: NONE	DRAWN BY: GMS	SHEET NO. CV
DESIGNED BY: ISW	CHECKED BY: EKC	CITY ENGINEER STOCKTON, CALIFORNIA

5365C

SHEET 1 OF 36

**GENERAL NOTES**

- THESE PLANS ARE HEREBY MADE PART OF THE CONTRACT SPECIFICATIONS FOR THIS PROJECT. THESE PLANS SHALL BE ACCOMPANIED BY SEPARATE SET OF SPECIAL PROVISIONS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK CALLED FOR ON THESE PLANS UNTIL THE CITY ENGINEER'S SIGNATURE OF APPROVAL IS AFFIXED HEREON AND ALL APPLICABLE PERMITS HAVE BEEN OBTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED TO COMPLETE THE PROJECT. AN APPROVED SET OF PLANS SHALL BE ON THE JOB SITE DURING ANY CONSTRUCTION.
- ALL WORK AND MATERIAL EMBRACED IN THIS PROJECT SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF THE CITY OF STOCKTON, DEPT. OF PUBLIC WORKS, STANDARD SPECIFICATIONS AND PLANS, THE LATEST EDITIONS OF CALTRANS STANDARD PLANS AND SPECIFICATIONS, AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS OF THIS PROJECT.
- THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- THE CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION PRIOR TO PROVIDING ANY BIDS TO DETERMINE ANY AND ALL ITEMS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING ALL CONFLICTS, ERRORS, OMISSIONS, ETC. TO THE ENGINEER IMMEDIATELY UPON DISCOVERY. IF SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL STOP WORK UNTIL REMEDIAL ACTION CAN BE TAKEN. ANY COSTS RESULTING FROM THE CONTRACTOR'S FAILURE TO REPORT OR FAILURE TO STOP WORK, AS DIRECTED, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL CONTACT THE CITY OF STOCKTON PUBLIC WORKS DEPARTMENT (209-937-8381) FOR A PRE-CONSTRUCTION CONFERENCE AFTER THE AWARD OF CONTRACT AND AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY PG&E AND OTHER UTILITY COMPANIES PRIOR TO START OF WORK. THE CONTRACTOR SHALL CALL USA (800-227-2600) 48 HOURS PRIOR TO ANY EXCAVATION.
- THE CONTRACTOR SHALL, BY HAND, POTHOLE EXISTING UTILITIES TO VERIFY LOCATION PRIOR TO CONSTRUCTION.
- EXISTING UTILITIES INCLUDING MANHOLES, STORM DRAIN CATCH BASINS, VALVES, BOXES, ETC., SHALL BE PROTECTED IN PLACE AND REMAIN OPERATIONAL AT ALL TIMES UNLESS NOTED OTHERWISE.
- THE LOCATIONS OF ALL UNDERGROUND FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL UNDERGROUND FACILITIES; HOWEVER, THE CONSULTANT ENGINEER ASSUMES NO LIABILITY FOR THE ACCURACY OR COMPLETENESS OF THE EXISTING FACILITIES SHOWN HEREON OR FOR THE EXISTENCE OF OTHER UNDERGROUND UTILITIES OR OBJECTS WHICH MAY BE DISCOVERED BUT ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES AND IMMEDIATELY NOTIFY THE ENGINEER IF ANY SUCH FACILITIES INTERFERE WITH THE CONSTRUCTION OF IMPROVEMENTS. CALL U.S.A. 1-800-227-2600. THE CONTRACTOR SHALL STOP WORK AROUND THE AREA OF CONFLICT UNTIL HE IS DIRECTED BY THE ENGINEER TO CONTINUE.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER NO. 2009-0009-DWO. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR A STORM WATER POLLUTION PREVENTION PLAN IN ACCORDANCE WITH THE SWRCB REGULATIONS. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS IN THE STORMWATER BEST MANAGEMENT PRACTICE CONSTRUCTION HANDBOOK WHICH IS PREPARED BY THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) AND ADOPTED BY THE STATE AND THE CITY. IT IS PROHIBITED TO DISCHARGE ANYTHING EXCEPT CLEAN WATER INTO THE STORM DRAIN SYSTEM.
- ATTENTION IS CALLED TO: SECTION 1540(A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 25. 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA) BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH (CAL-OSHA) ACT OF 1973, AS AMENDED, WHICH STATES:  
  
"PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHETHER SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING AND WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION."
- THE CONTRACTOR SHALL PROVIDE SHORING, BRACING, SLOPING OR PROVISIONS TO PROTECT WORKERS FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF FIVE FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL, STATE, AND FEDERAL REGULATIONS (CAL-OSHA, OSHA).
- THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROLS AND SHALL SUBMIT TO THE CITY TRAFFIC ENGINEERING DIVISION A TRAFFIC CONTROL PLAN (TCP) FOR EACH PHASE OF WORK. THE TCP MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- PRIOR TO BEGINNING ANY WORK ON EXISTING STREETS, ADVANCE WARNING SIGNS SHALL BE INSTALLED. TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH PART 6 OF THE 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CA MUTCD), AND ANY ADDITIONAL CITY REQUIREMENTS. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN ORDER.
- TRAFFIC CONTROL MAINTENANCE AND OPERATION SHALL COMPLY WITH THE FOLLOWING STATE STANDARD SPECIFICATION SECTIONS:  
  
SECTION 7-1.04 "PUBLIC SAFETY"  
SECTION 7-1.03 "PUBLIC CONVENIENCE"  
SECTION 12 "TEMPORARY TRAFFIC CONTROL"
- THE CONTRACTOR SHALL PROVIDE ALL WARNING LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY.
- ALL EXISTING SIGNS AND POSTS SHALL REMAIN UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BACKFILL WITH CUTBACK EACH NIGHT ANY AREAS NOT COMPLETED TO ITS FINISHED STATE. ALL EXCAVATED AREAS SHALL BE PROTECTED FROM PEDESTRIANS, BICYCLISTS AND VEHICULAR TRAFFIC AT ALL TIMES.
- ALL NEW FLATWORK SHALL BE DRILLED AND DOWELED AND/OR KEYED INTO EXISTING FLATWORK IN ACCORDANCE WITH CITY OF STOCKTON STANDARD PLANS AND SPECIFICATIONS.
- ALL EXISTING PUBLIC AND PRIVATE IMPROVEMENTS, INCLUDING ALL CURBS, GUTTERS, SIDEWALKS, IRRIGATION, LANDSCAPING, AND FENCES, THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE ENGINEER, AT CONTRACTOR'S SOLE EXPENSE.
- THE CONTRACTOR SHALL REPLACE ANY PAVEMENT DELINEATION OR TRAFFIC MARKINGS REMOVED OR DAMAGED IN THE COURSE OF THIS WORK. PRIOR TO ANY REMOVAL, THE CONTRACTOR SHALL DOCUMENT THE TYPE AND LOCATION OF THE PAVEMENT DELINEATION/ MARKINGS.
- THE CONTRACTOR SHALL RETURN SALVAGEABLE EQUIPMENT (AS NOTED IN THE PLANS) TO THE CITY OF STOCKTON CORPORATION YARD AT 1465 SOUTH LINCOLN STREET, STOCKTON, CALIFORNIA, 95206. CONTRACTOR SHALL NOTIFY THE CORP. YARD AT (209) 937-7406 A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF DELIVERY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPACTION TESTING AND SHALL PROVIDE TO THE CITY ALL COMPACTION TEST RESULTS SHOWING THAT THE CITY'S MINIMUM COMPACTION STANDARDS HAVE BEEN ACHIEVED.

**TRAFFIC SIGNAL AND ELECTRICAL NOTES**

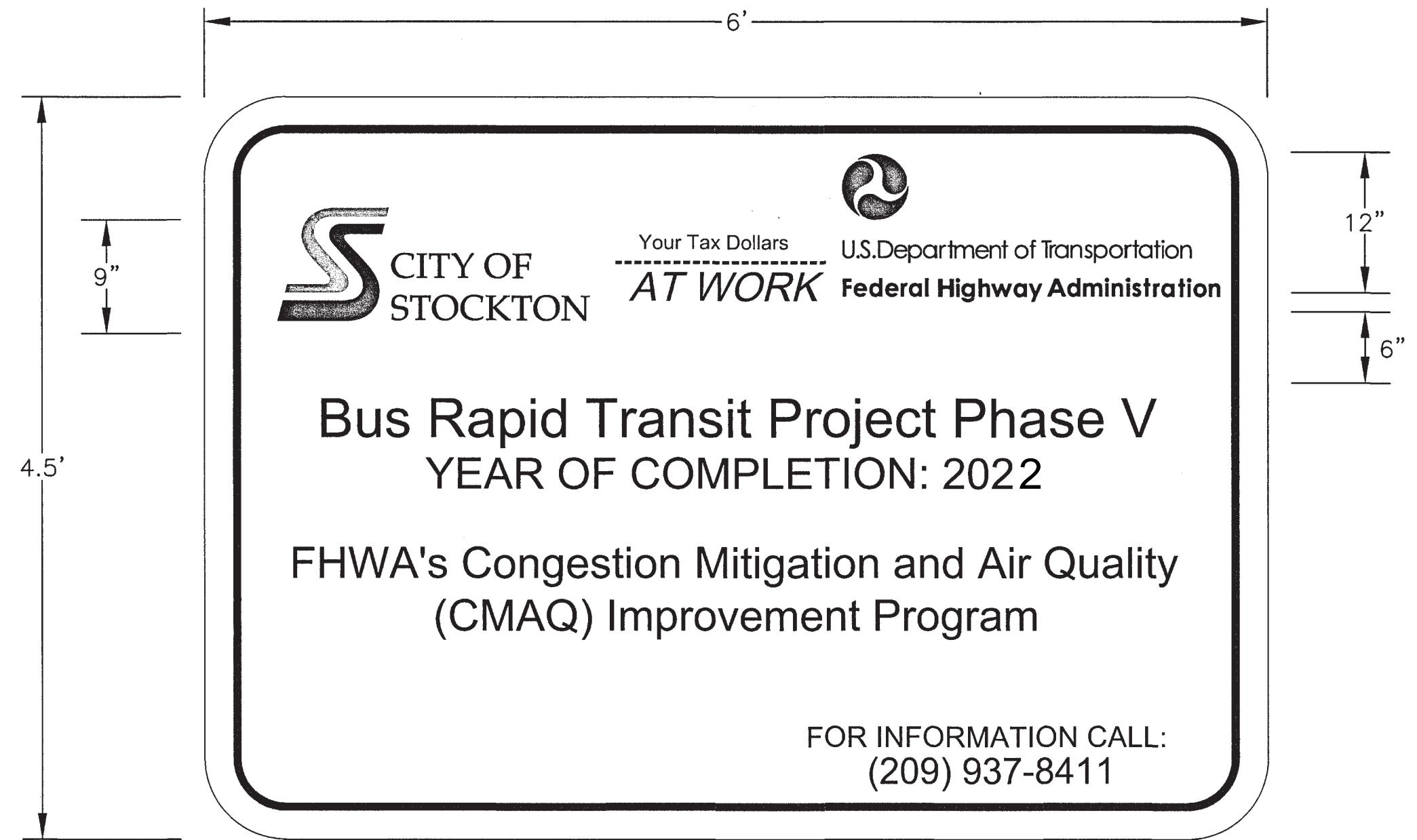
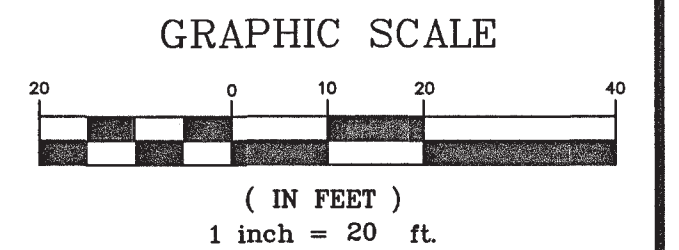
- POLES, PULL BOXES, DETECTOR HAND HOLES, INDUCTIVE LOOPS AND CONTROLLER CABINET LOCATIONS SHALL BE LOCATED IN THE FIELD BY THE CONTRACTOR WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER. TYPICALLY, DETECTOR HANDHOLES SHOULD BE INSTALLED ON LANE LINES.
- CONTRACTOR SHALL MEET GENERAL ORDER (G.O.) 95 REQUIREMENTS AND LOCATE FOUNDATIONS SO AS TO PROVIDE A MINIMUM OF 6' RADIAL CLEARANCE FROM ALL EQUIPMENT TO OVER HEAD POWER LINES (PRIMARY) AND A MINIMUM OF 3' RADIAL CLEARANCE TO COMMON NEUTRAL LINES. SIGNAL POLES SHALL BE LOCATED TO PROVIDE A MINIMUM OF 10' OF RADIAL CLEARANCE TO PRIMARY LINES. CONTRACTOR SHALL CONTACT PG&E FOR ANY WORK TO BE DONE WITHIN 10' RADIAL CLEARANCE ZONE. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS ASSOCIATED WITH WORKING WITHIN THE 10' RADIAL CLEARANCE ZONE.
- SIDEWALK REMOVAL SHALL BE TO THE NEAREST SCORE MARK OR AS DETERMINED BY THE ENGINEER. CONTRACTOR SHALL NEATLY SAW-CUT CONCRETE WHERE PULL BOXES ARE TO BE PLACED AND SHALL RESTORE THE SLAB TO MATCH THE EXISTING CONDITION.
- ALL PULL BOXES SHALL BE STATE STANDARD NUMBER 5 UNLESS OTHERWISE NOTED ON PLAN.
- CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF UTILITIES OR ANY OTHER TRADES, AND TO THE SATISFACTION OF THE CITY OF STOCKTON. UPON COMPLETION OF CONDUIT INSTALLATION, THE ACTUAL LOCATION OF THE CONDUITS SHALL BE NOTED ON AN AS-BUILT SET OF PRINTS AND FURNISHED TO THE CITY.
- INSTALLATION OF NEW CONDUCTORS INTO EXISTING CONDUIT SHALL BE IN ACCORDANCE WITH SECTION 77-1.12 OF THE SPECIAL PROVISIONS. PRIOR TO INSTALLATION OF NEW CONDUCTORS/CABLES IN EXISTING CONDUITS, THE CONTRACTOR SHALL USE CABLE LOOSENER TO LOOSEN EXISTING CABLES AND CONDUCTORS IN THE CONDUITS. THE CONTRACTOR SHALL ALSO USE PULLING LUBRICANT FOR PULLING WIRES, AND A PULL TAPE CONFORMING TO THE PROVISION DESCRIBED UNDER "CONDUIT", ELSEWHERE IN THE SPECIAL PROVISIONS.
- LABEL PEDESTRIAN AND SIGNAL COMMONS SEPARATELY IN THE CONTROLLER CABINET.
- CONTRACTOR SHALL INSTALL A PHOTOELECTRIC CONTROL UNIT IN EACH NEW SERVICE CABINET. A SECONDARY PHOTOELECTRIC UNIT (PEU) SHALL BE INSTALLED ON SIGNAL OR LIGHTING POLE NEAREST TO THE SERVICE CABINET. THE SECONDARY PEU SHALL BE WIRED AND TESTED. ONCE TEST IS ACCEPTABLE, THEN PERMANENT CONNECTION TO PEU AND SERVICE CABINET SHALL BE MADE.
- ALL INFRARED EMERGENCY VEHICLE PREEMPTION (EVP)/TRANSIT SIGNAL PRIORITY (TSP) DETECTORS SHALL BE MOUNTED VERTICALLY.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FIBER OPTIC CABLE AND PROTECT IN PLACE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SECTION 77-1.24 (EX. FIBER) OF THE SPECIAL PROVISIONS.
- EXISTING TRAFFIC SIGNAL SYSTEMS SHALL BE KEPT IN EFFECTIVE OPERATION DURING THE PROGRESS OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE ENTIRE EXISTING SIGNAL SYSTEM (AT EACH PROJECT TRAFFIC SIGNAL) FROM THE FIRST DAY CONTRACTOR STARTS WORKING ON THE PROJECT TO THE FINAL ACCEPTANCE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST THREE (3) WORKING DAYS IN ADVANCE OF ANY REQUESTED SIGNAL SHUT-DOWN FOR REPLACEMENT OF THE CONTROLLER CABINET ASSEMBLY, RE-WIRING OF THE TRAFFIC SIGNAL, ETC. ALL REQUESTED SIGNAL SHUT-DOWNS ARE SUBJECT TO CITY APPROVAL. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE CITY TRAFFIC ENGINEERING DIVISION BEFORE SCHEDULING SIGNAL SHUT-DOWN. TRAFFIC SIGNAL SHUT-DOWNS SHALL BE LIMITED TO PERIODS BETWEEN THE HOURS OF 9:00 AM AND 3:30 PM ON WEEKDAYS ONLY.
- FLASHING INDICATIONS SHALL FLASH IN RED ON ALL PHASES.
- ALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEMS SHALL BE MOUNTED 42" MAX FROM THE SIDEWALK TO THE CENTER OF THE PUSH BUTTON.

**ABBREVIATIONS**

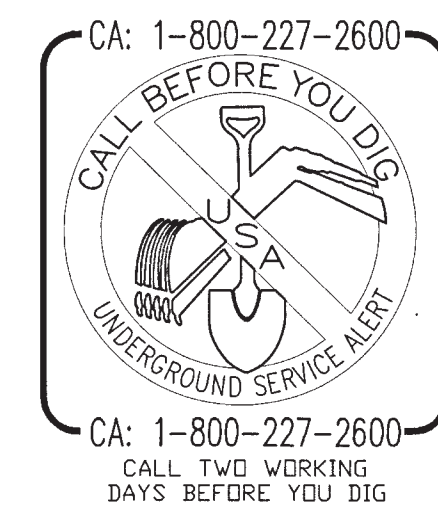
ADA	AMERICANS WITH DISABILITIES ACT	PTZ	PAN-TILT-ZOOM
APS	ACCESSIBLE PEDESTRIAN SIGNAL	RMC	RIGID METAL CONDUIT
BRT	BUS RAPID TRANSIT	SIC	SIGNAL INTERCONNECT CABLE
CCTV	CLOSED CIRCUIT TELEVISION	TSP	TRANSIT SIGNAL PRIORITY
DLC	DETECTOR LEAD-IN CABLE	TYP.	TYPICAL
EVA	PRE-EMPTION CHANNEL A	AB	ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
EVB	PRE-EMPTION CHANNEL B	BC	INSTALL PULL BOX IN EXISTING CONDUIT RUN.
EVC	PRE-EMPTION CHANNEL C	CB	INSTALL CONDUIT INTO EXISTING PULL BOX.
EVD	PRE-EMPTION CHANNEL D	CC	CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS NOTED.
EVP	EMERGENCY VEHICLE PRE-EMPTION	RC	EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME PROPERTY OF THE CONTRACTOR.
EX.	EXISTING	RL	RELOCATE EQUIPMENT.
F.O.	FIBER OPTIC	RS	REMOVE AND SALVAGE EQUIPMENT.
GRC	GALVANIZED RIGID STEEL CONDUIT		
MAX	MAXIMUM		
MIN	MINIMUM		
MT	EMPTY		
PPB	PEDESTRIAN PUSH BUTTON		

**LEGEND**

PROPOSED	EXISTING	
---	---	CONDUIT
---	---	FACE OF CURB
---	---	LIP OF GUTTER
---	---	BACK OF CURB
---	---	BACK OF SIDEWALK
---	---	RIGHT-OF-WAY
---	---	FENCE
⊙	⊙	SANITARY SEWER LINE AND MANHOLE
○	○	STORM SEWER LINE AND MANHOLE
---	---	WATER LINE
---	---	NITROGEN GAS LINE
---	---	ELECTRICAL LINE
---	---	GAS LINE
---	---	TELEPHONE LINE
---	---	FIBER OPTIC LINE
⊠	⊠	TRAFFIC SIGNAL CONTROLLER CABINET
⊠	⊠	SERVICE CABINET
⊠	⊠	TRAFFIC SIGNAL HEAD
⊠	⊠	PULL BOX
⊠	⊠	PAN/TILT/ZOOM CAMERA
⊠	⊠	TRAFFIC SIGNAL STANDARD
⊠	⊠	EVP/TSP OPTICAL DETECTOR UNIT
⊠	⊠	UTILITY POLE
⊠	⊠	FIRE HYDRANT
⊠	⊠	TELEPHONE MANHOLE
⊠	⊠	WATER VALVE
⊠	⊠	MAST ARM MOUNTED SIGN
⊠	⊠	DETECTOR LOOP CABLE
⊠	⊠	VIDEO DETECTION ZONE - VEHICLE
⊠	⊠	VIDEO DETECTION ZONE - BICYCLE



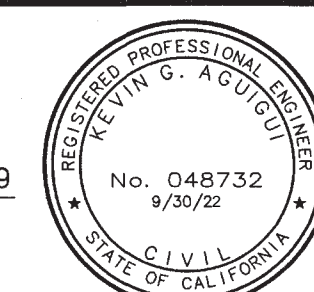
**PROJECT INFORMATION SIGN  
(TO BE INSTALLED AT SIX LOCATIONS)  
N.T.S.**



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			APPROVED BY	DATE

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12/19/2019  
R.C.E. No. 048732, EXP. 9/30/22

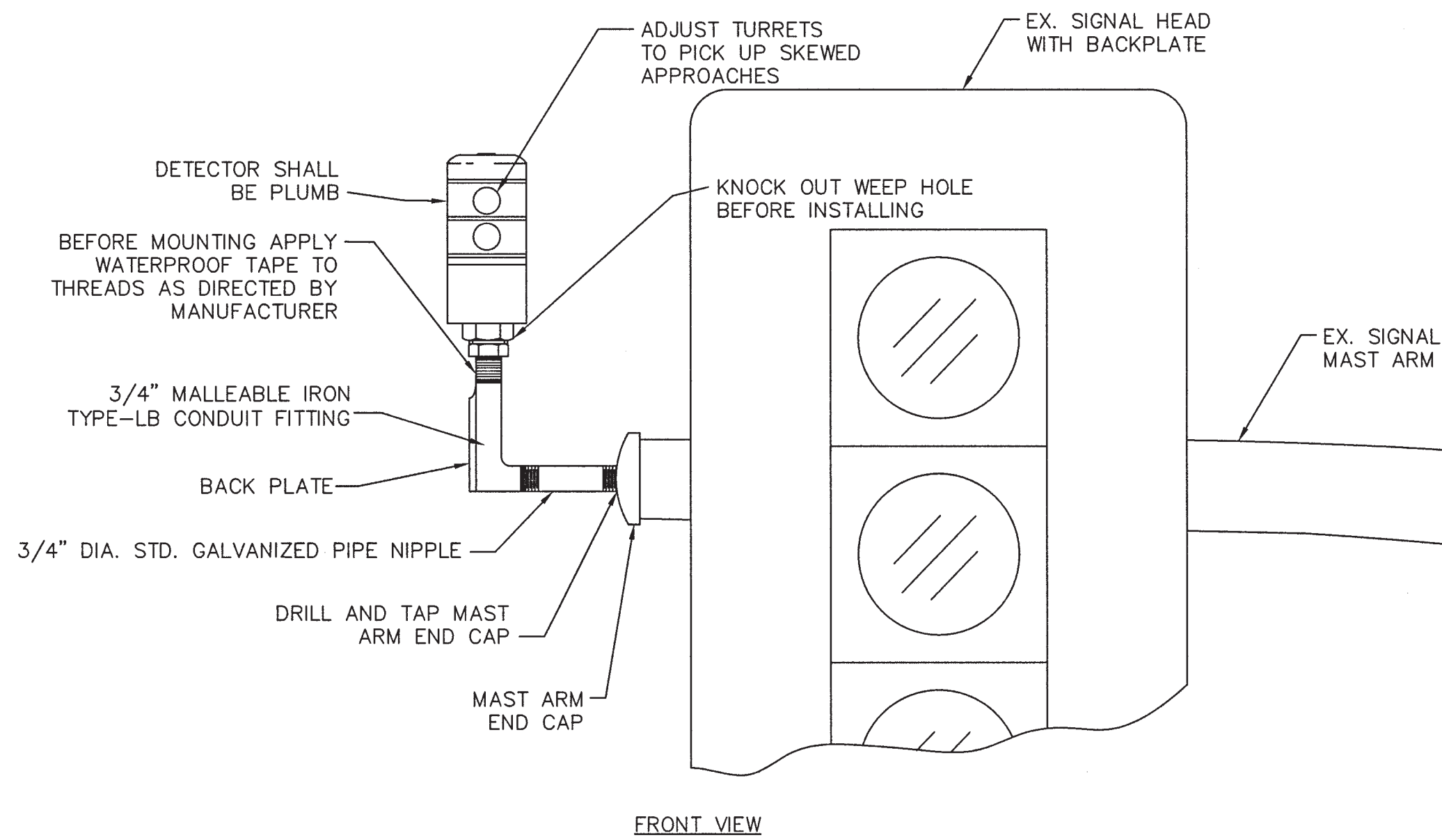


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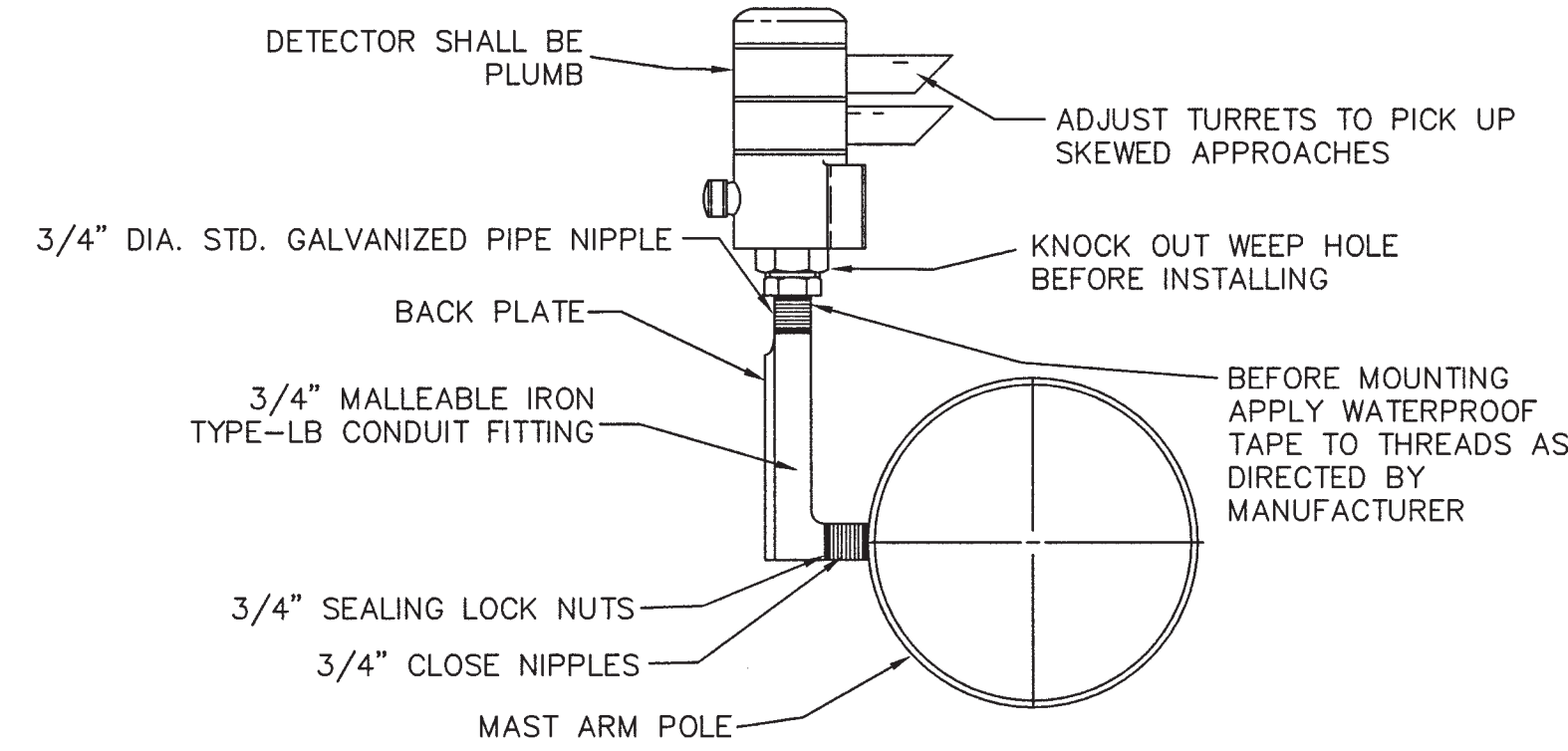
**NOTES, LEGEND AND ABBREVIATIONS**

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		PROJECT NO. PW1516
DATE: DECEMBER 2019	APPROVED BY:	SHEET NO. GN-1
SCALE: NONE	DESIGNED BY: ISW	CITY ENGINEER STOCKTON, CALIFORNIA
DRAWN BY: GMS	CHECKED BY: EKC	SHEET 2 OF 36

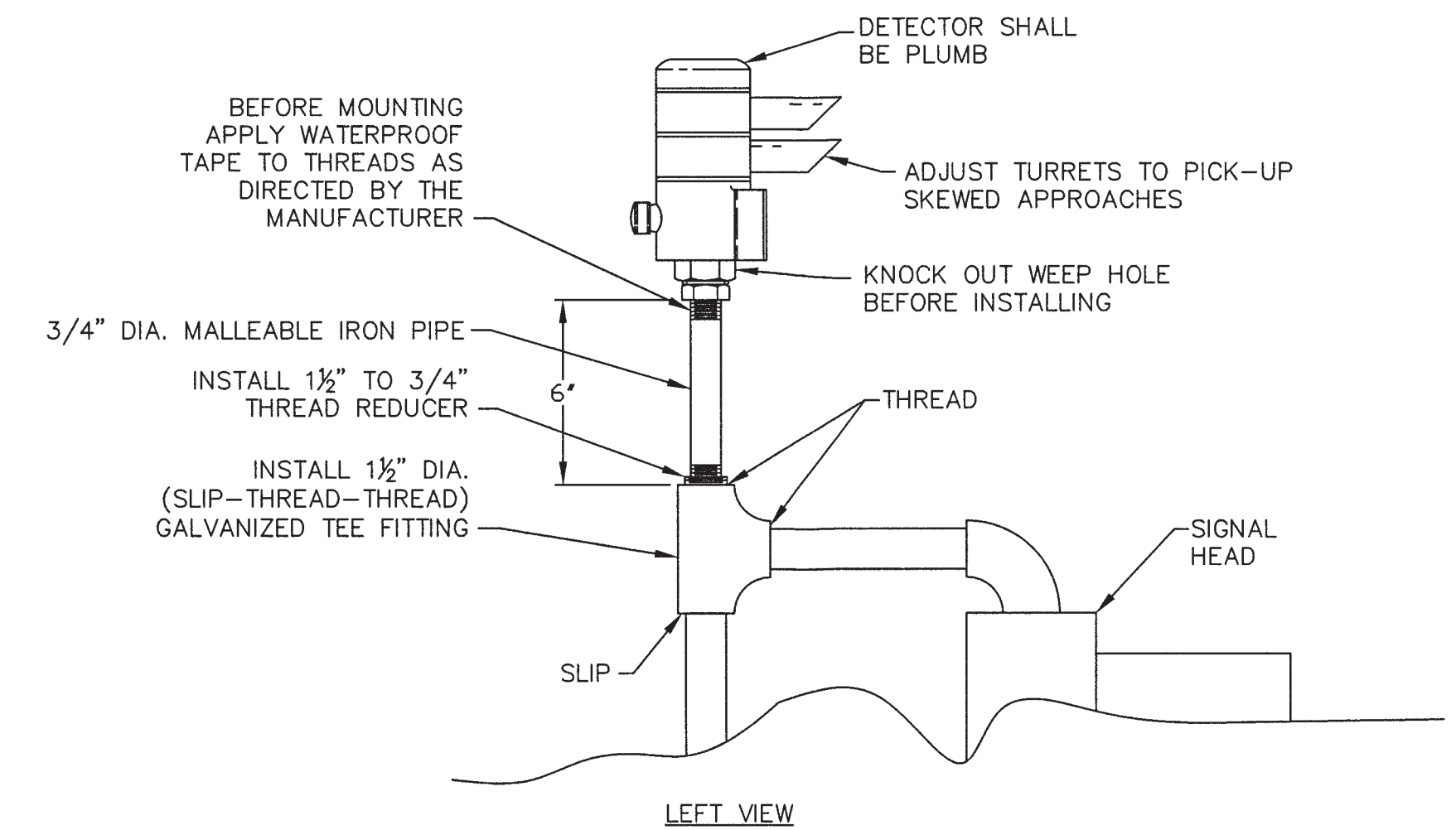
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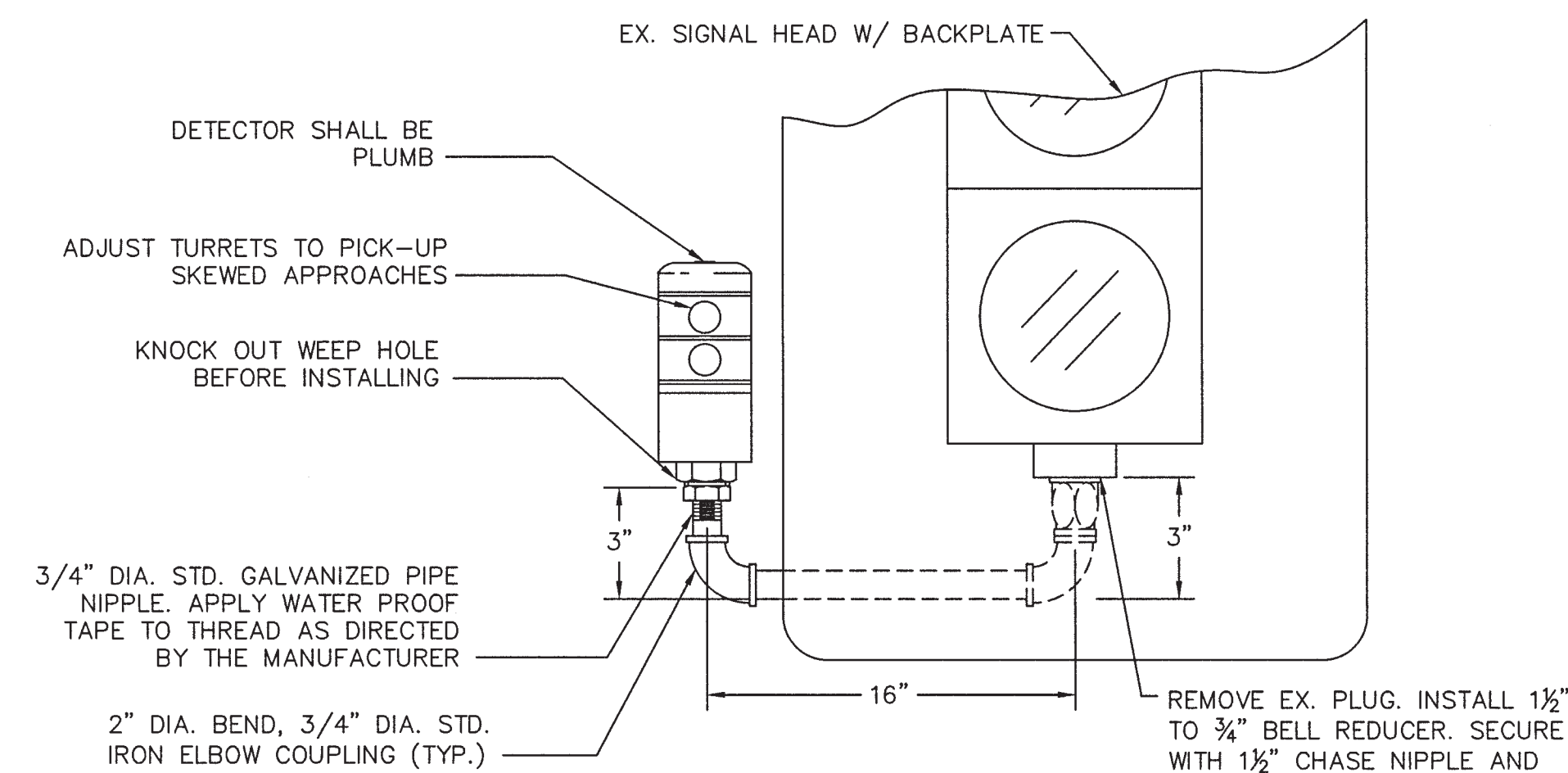
FRONT VIEW  
**END OF MAST ARM MOUNTING**



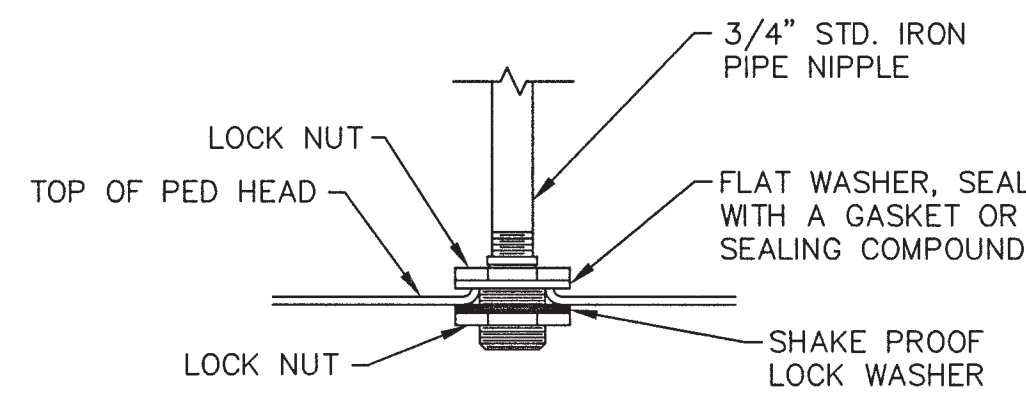
LEFT VIEW  
**MAST ARM MOUNTING**



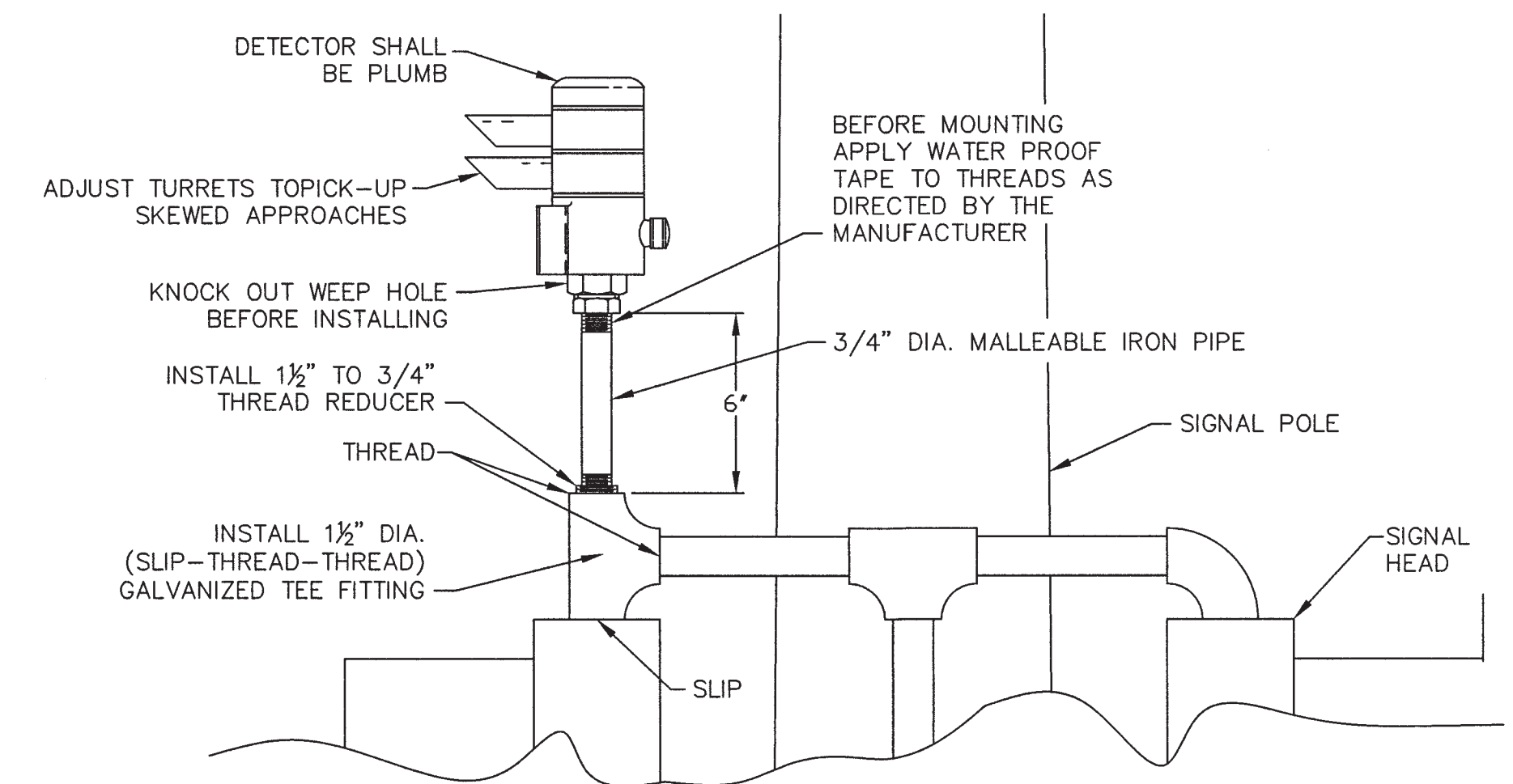
LEFT VIEW  
**1-B (TV-1-T) POLE TOP MOUNT**



FRONT VIEW  
**SIGNAL HEAD MOUNTING**



SIDE VIEW  
**PEDESTRIAN SIGNAL HEAD ATTACHMENT**



RIGHT VIEW  
**SIGNAL HEAD FRAME (SV-2-T) MOUNT**

**DETAIL A: EVP/TSP DETECTOR  
UNIT MOUNTING DETAILS  
(FOR CITY INTERSECTIONS ONLY)**

NOT TO SCALE



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R.C.E. No. 048732, EXP. 9/30/22

12/19/2019  
DATE



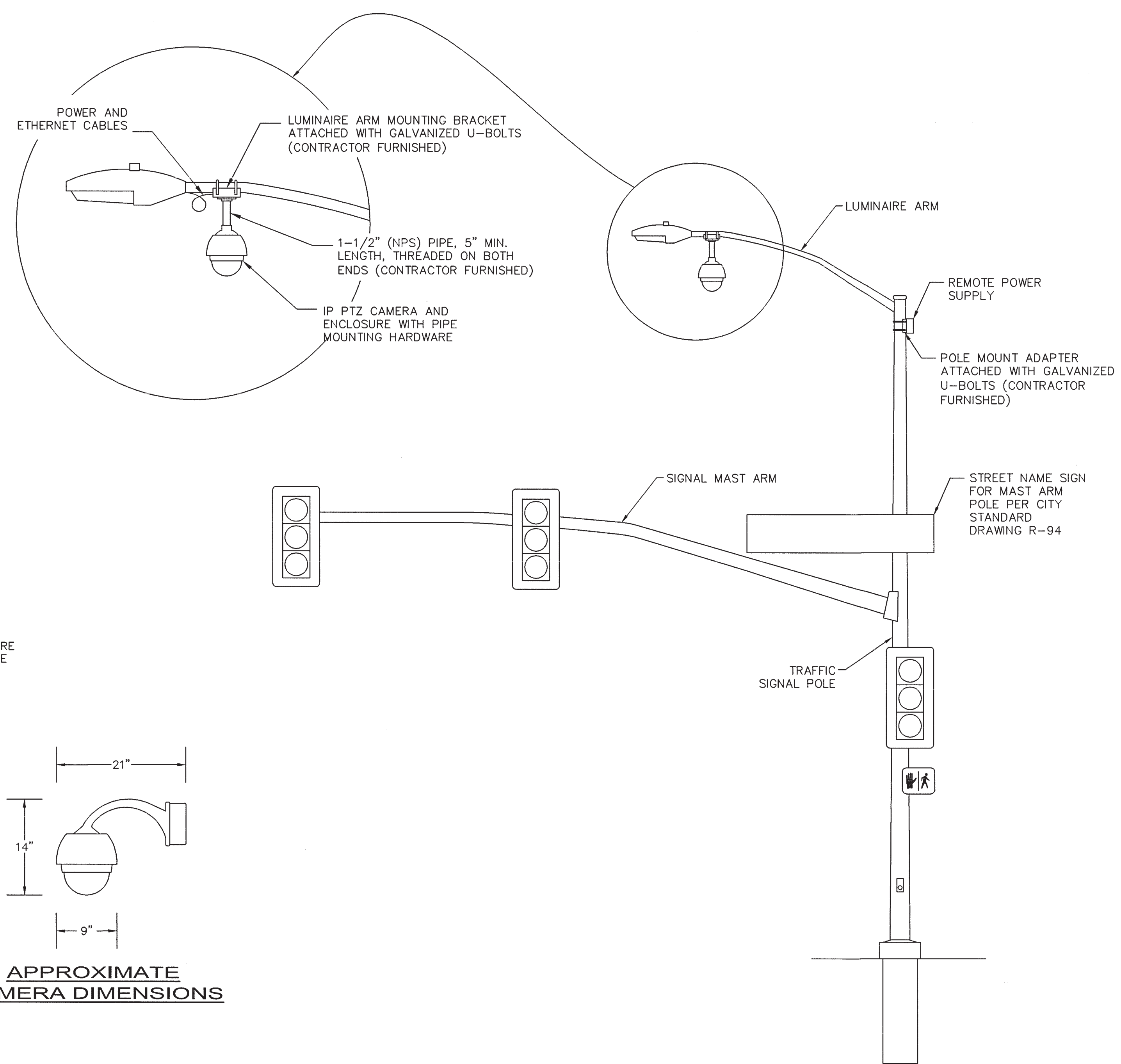
BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY,  
PREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**DETAILS**

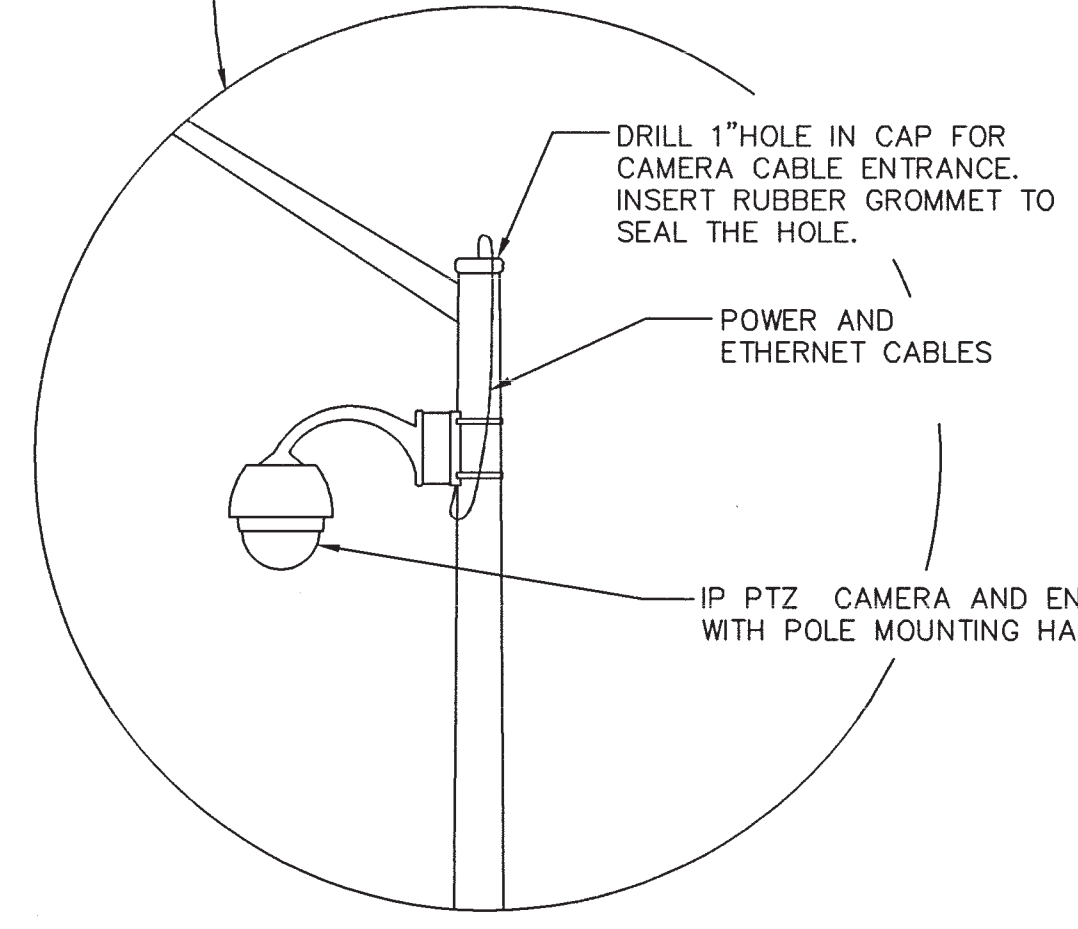
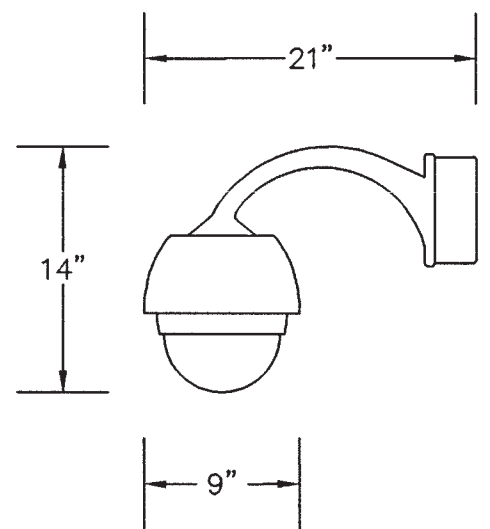
DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: <b>DECEMBER 2019</b>	APPROVED BY: <i>[Signature]</i>	DATE: <b>2/21/20</b>	PROJECT NO. PW1516
SCALE: NONE	DRAWN BY: <b>MWW</b>	CHECKED BY: <b>EKC</b>	SHEET NO. DT-1
DESIGNED BY: <b>ISW</b>	CITY ENGINEER STOCKTON, CALIFORNIA		SHEET <b>3</b> OF <b>38</b>

5325.2C



APPROXIMATE CAMERA DIMENSIONS



CAMERA SHALL BE ORIENTED TO THE CENTER OF THE INTERSECTION,  $\pm 45^\circ$  FROM THE LUMINAIRE ARM.

DETAIL C: CCTV CAMERA POLE MOUNT

NOT TO SCALE

DETAIL D: CCTV CAMERA LUMINAIRE ARM MOUNT

NOT TO SCALE

BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

DETAILS

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: <i>[Signature]</i>	PROJECT NO. PW1516
SCALE: NONE	DATE: 8/6/20	SHEET NO. DT-2
DRAWN BY: MWW	CITY ENGINEER	SHEET 4 OF 36
DESIGNED BY: ISW	CITY ENGINEER	
CHECKED BY: EKC	STOCKTON, CALIFORNIA	

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712  
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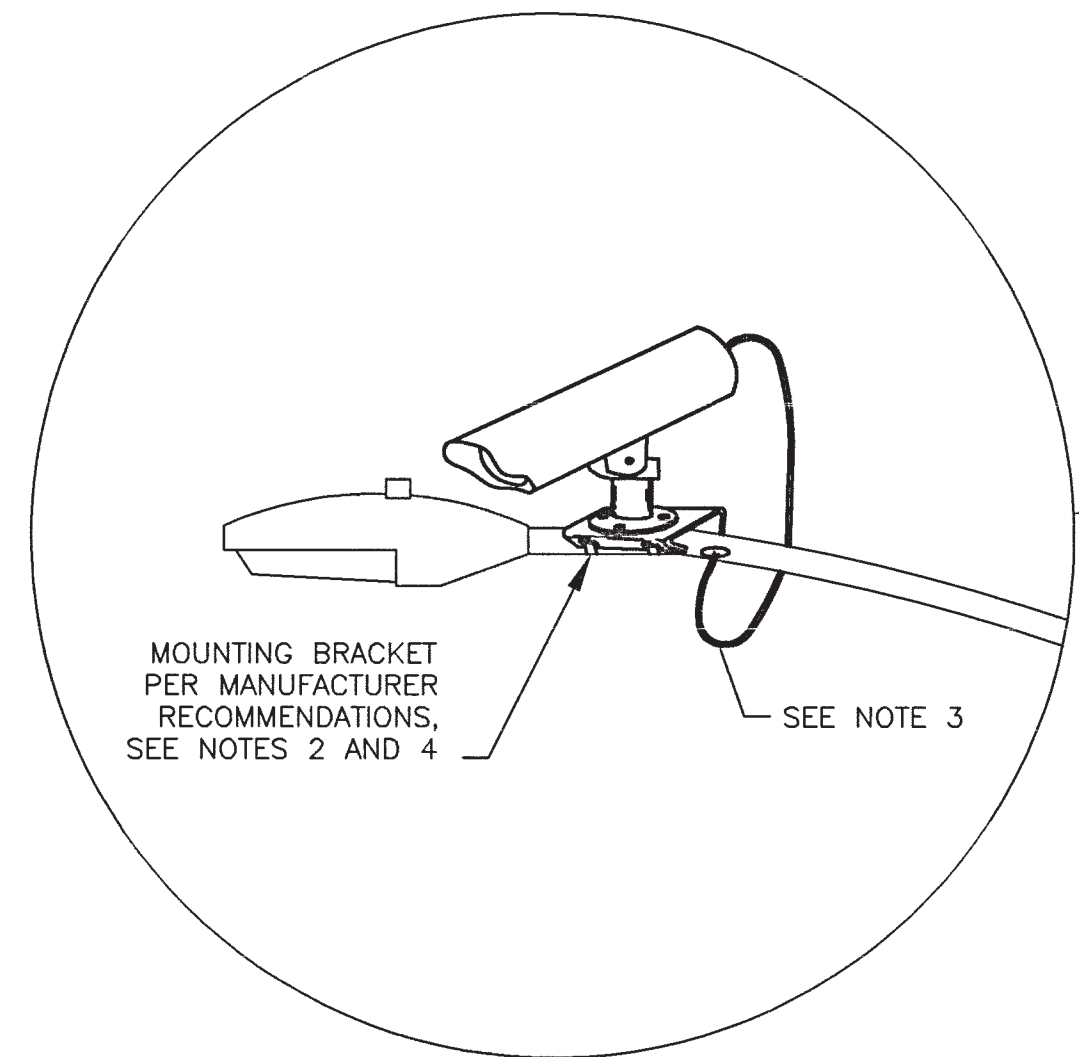
DESIGNED UNDER THE SUPERVISION OF:  
*[Signature]*  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



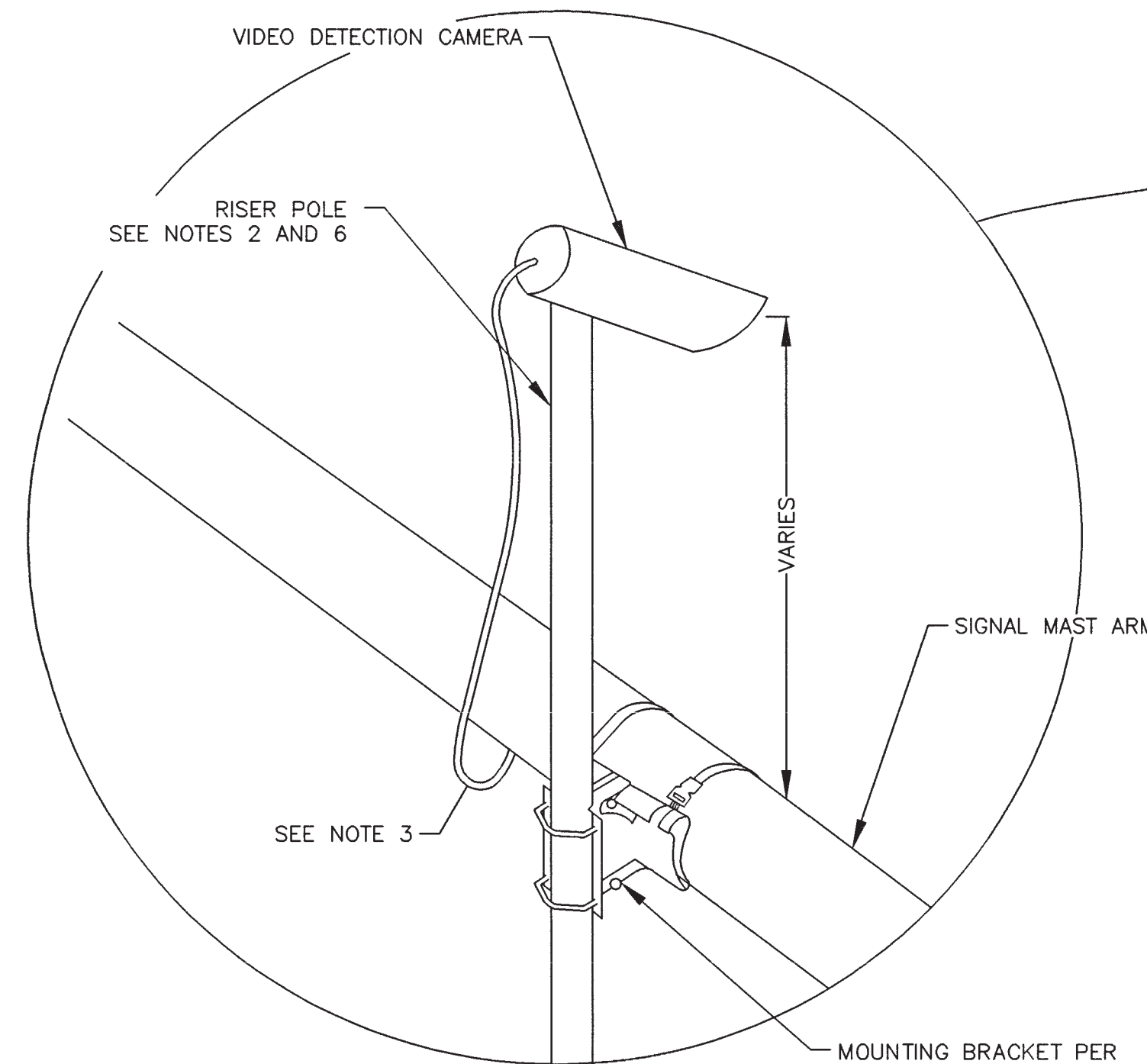
CA: 1-800-227-2600  
 CALL BEFORE YOU DIG  
 UNDERGROUND SERVICE ALERT  
 CALL TWO WORKING DAYS BEFORE YOU DIG

Dec 19, 2019 - 10:10am - US20 - Project: BRT V - Stockton BRT V - K:\A\A\_CAD\Drawings\4 DT02.dwg  
 K:\A\A\_CAD\Drawings\4 DT02.dwg - Stockton BRT V - K:\A\A\_CAD\Drawings\4 DT02.dwg

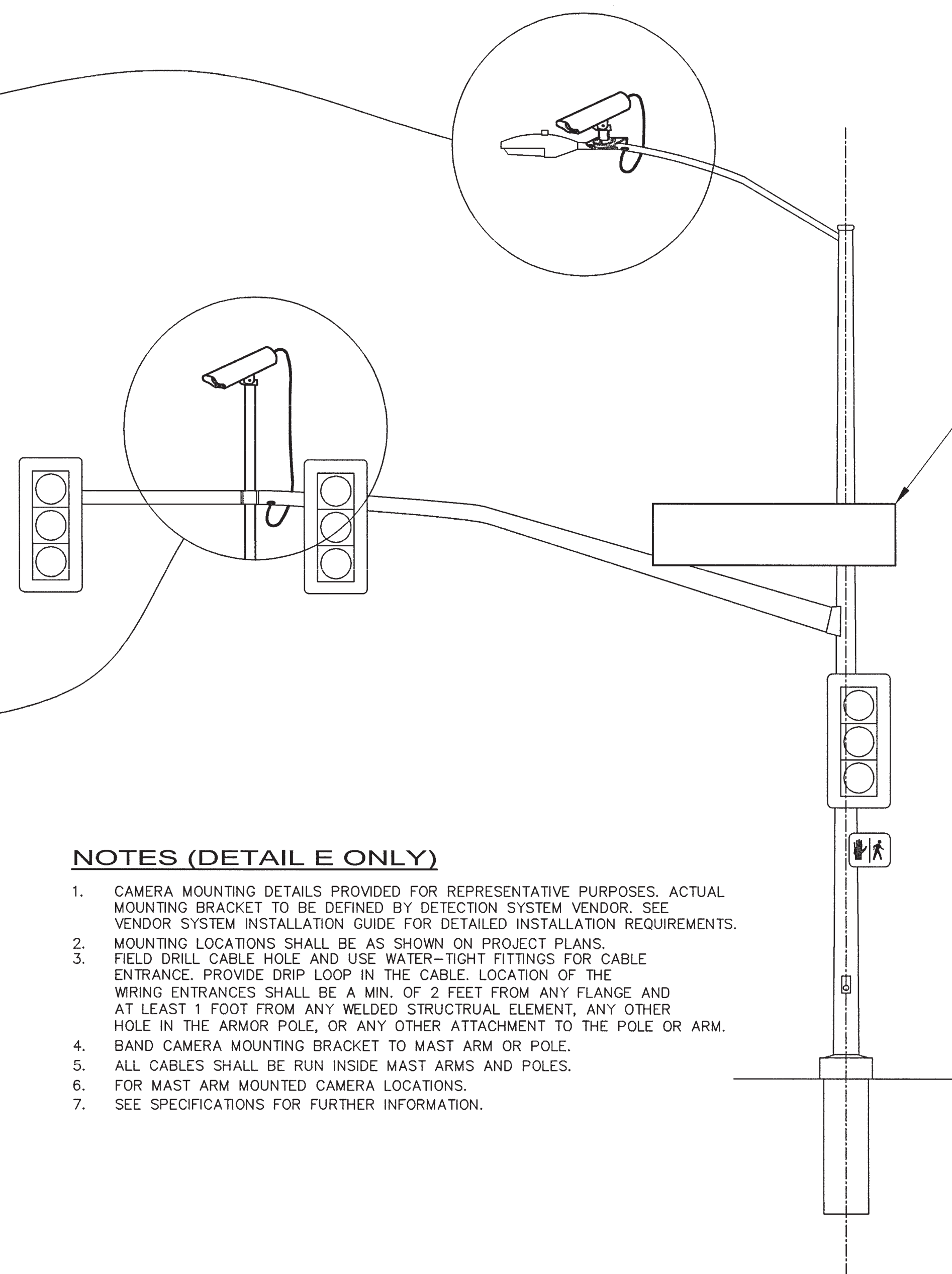
5365.3C



**LUMINAIRE MOUNT**

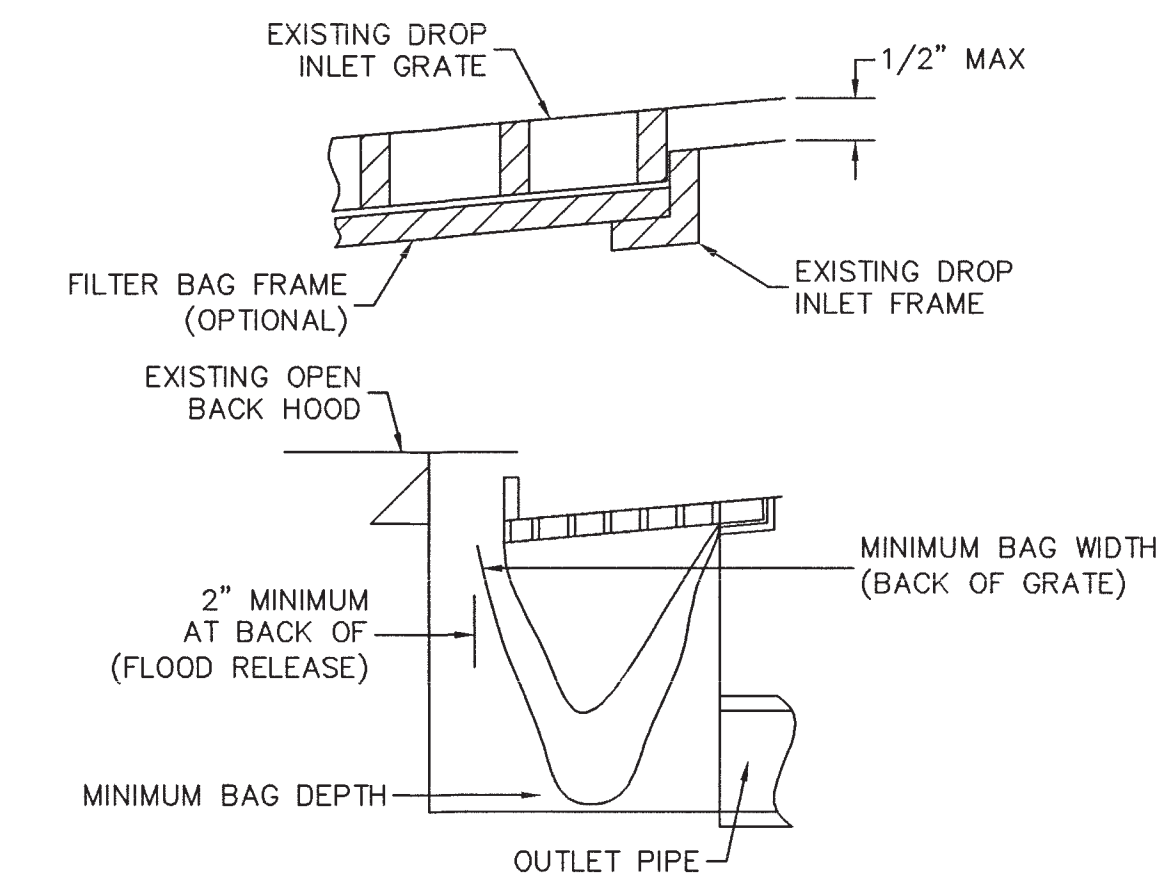


**MAST ARM MOUNT (REAR VIEW)**



**NOTES (DETAIL E ONLY)**

1. CAMERA MOUNTING DETAILS PROVIDED FOR REPRESENTATIVE PURPOSES. ACTUAL MOUNTING BRACKET TO BE DEFINED BY DETECTION SYSTEM VENDOR. SEE VENDOR SYSTEM INSTALLATION GUIDE FOR DETAILED INSTALLATION REQUIREMENTS.
2. MOUNTING LOCATIONS SHALL BE AS SHOWN ON PROJECT PLANS. FIELD DRILL CABLE HOLE AND USE WATER-TIGHT FITTINGS FOR CABLE ENTRANCE. PROVIDE DRIP LOOP IN THE CABLE. LOCATION OF THE WIRING ENTRANCES SHALL BE A MIN. OF 2 FEET FROM ANY FLANGE AND AT LEAST 1 FOOT FROM ANY WELDED STRUCTURAL ELEMENT, ANY OTHER HOLE IN THE ARMOR POLE, OR ANY OTHER ATTACHMENT TO THE POLE OR ARM.
3. BAND CAMERA MOUNTING BRACKET TO MAST ARM OR POLE.
4. ALL CABLES SHALL BE RUN INSIDE MAST ARMS AND POLES.
5. FOR MAST ARM MOUNTED CAMERA LOCATIONS.
6. SEE SPECIFICATIONS FOR FURTHER INFORMATION.



**NOTES:**

1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN .06 HECTARES (2 ACRES).
2. THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS PER LINEAL FOOT. AN EQUIVALENT OPENING SIZE NOT GREATER THAN A 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLONS/SQFT.
3. THE FILTER BAG MAY BE SUSPENDED FROM OR HELD IN PLACE BY EXISTING INLET GRATE (OR OTHER APPROVED METHOD), PROVIDING NO MODIFICATION OR DRAINAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED TO REST MORE THAN 1/2" ABOVE THE INLET FRAME.
4. THE FILTER BAG MAY EXTEND TO THE BOTTOM OF THE INLET BOX PROVIDED THE OUTLET PIPE IS UNOBSTRUCTED.
5. FLOWS SHALL NOT BE ALLOWED TO BYPASS THE BAG. THE BAG OR IT'S FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET EXCEPT AS SHOWN FOR FLOOD RELEASE.
6. INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.

**DETAIL F: CATCH BASIN FILTER BAG (WATER POLLUTION CONTROL)**

NOT TO SCALE

**DETAIL E: CITY OF STOCKTON SIGNAL POLE CAMERA MOUNTING**

NOT TO SCALE



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI DATE 12/19/2019  
 R.C.E. No. 048732, EXP. 9/30/22



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

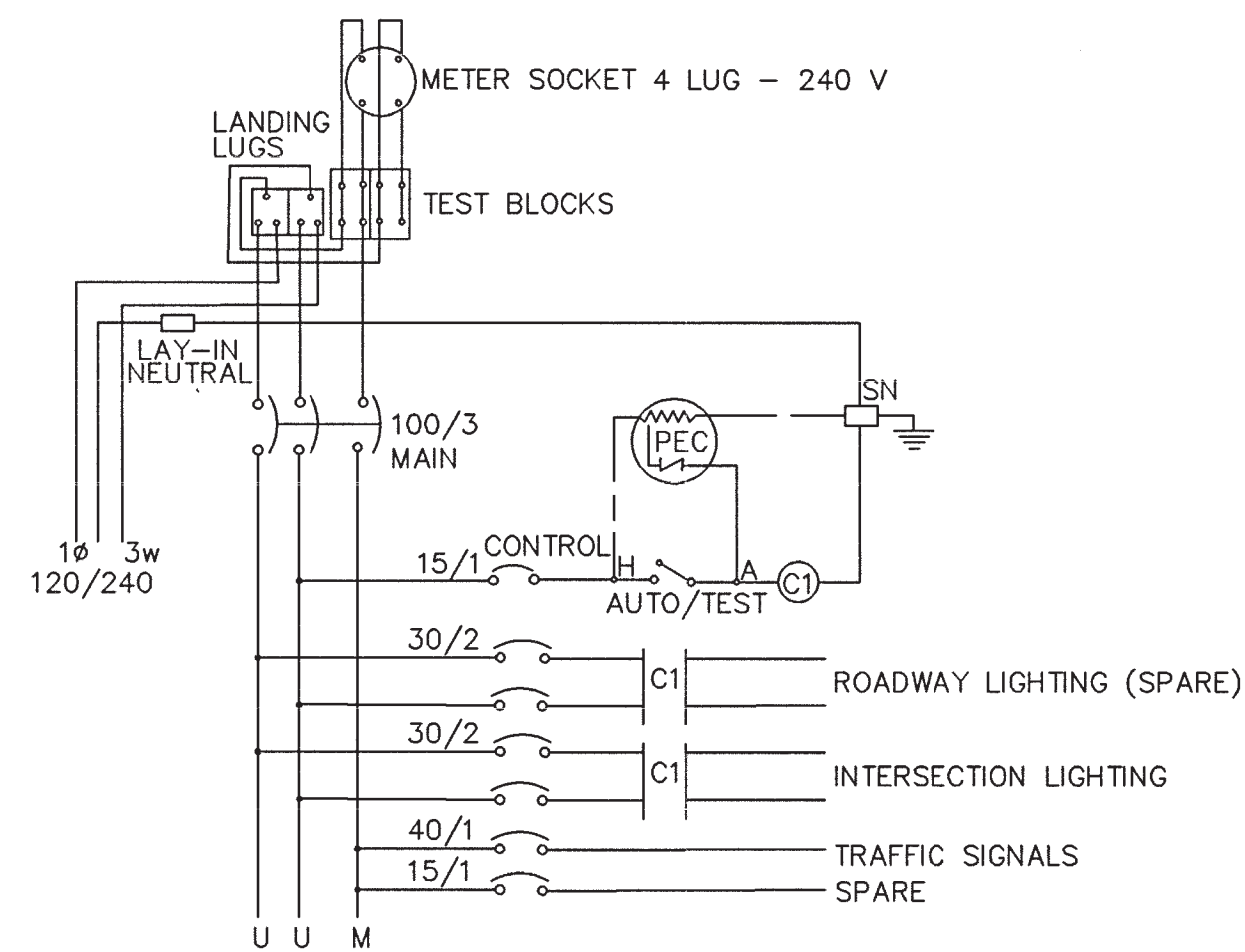
**DETAILS**

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

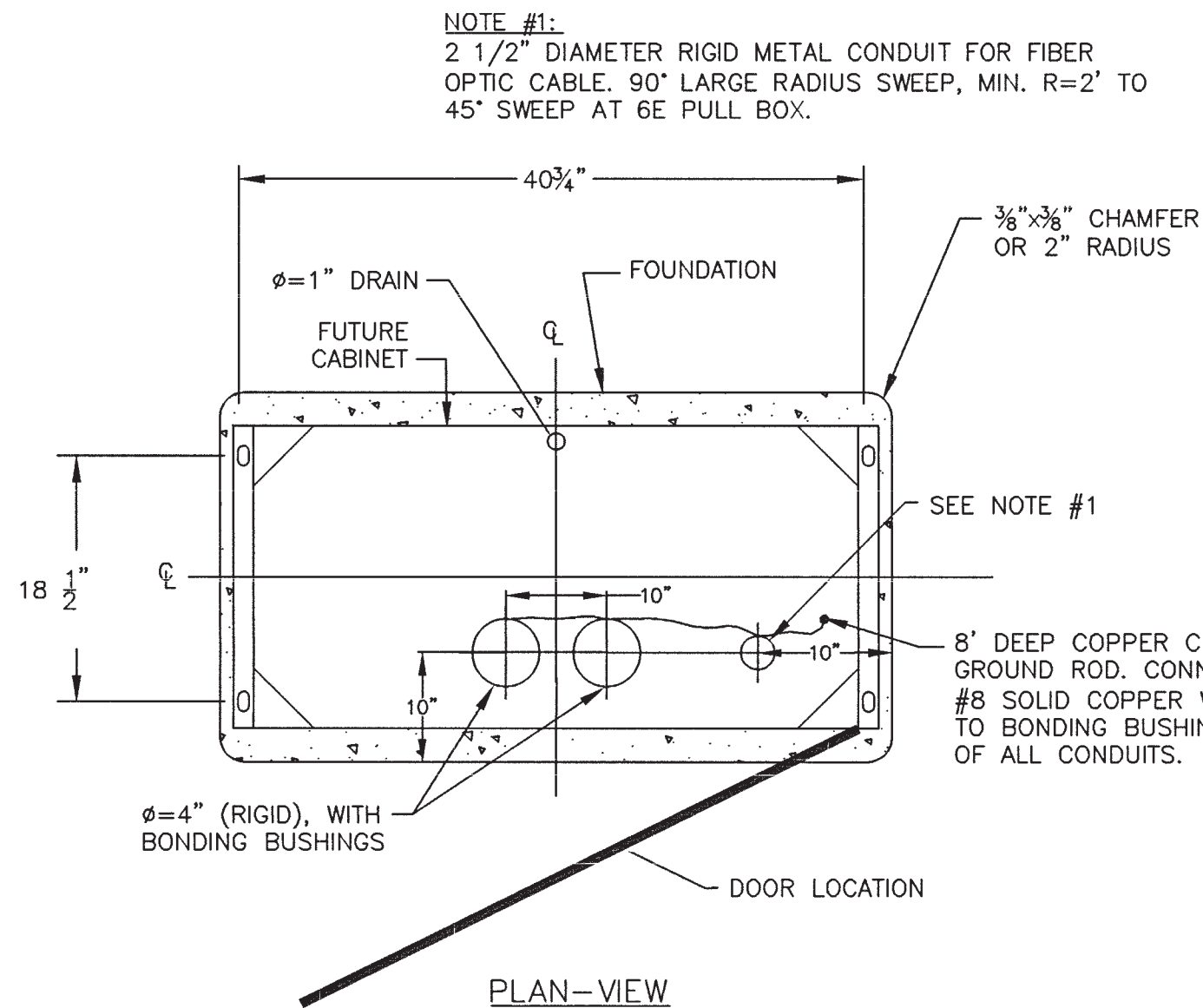
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SCALE: NONE	DATE: 8/31/20	SHEET NO. DT-3
DRAWN BY: MWW	CITY ENGINEER	SHEET 5 OF 36
DESIGNED BY: ISW	STOCKTON, CALIFORNIA	
CHECKED BY: EKC		

5365.4C

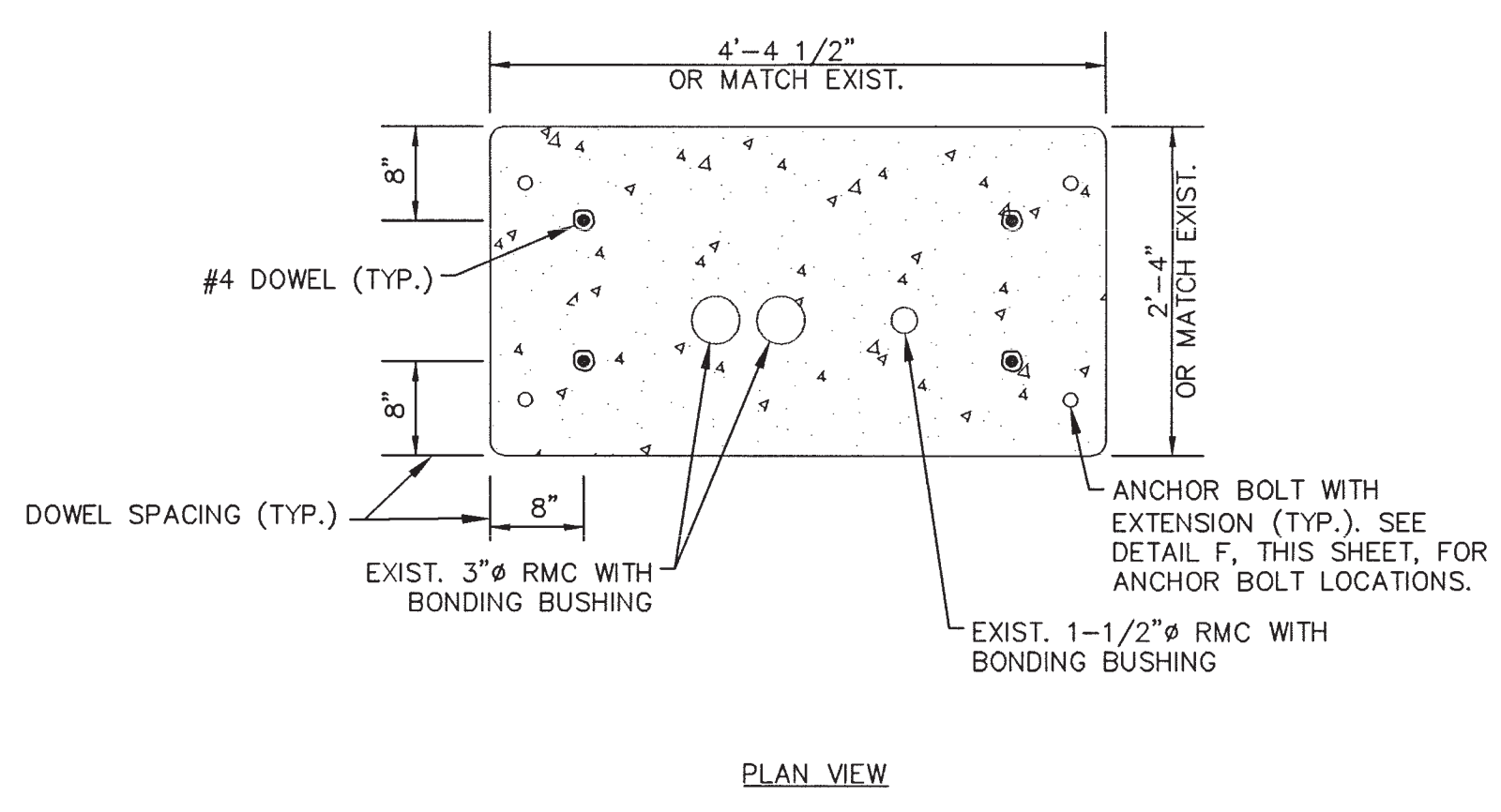
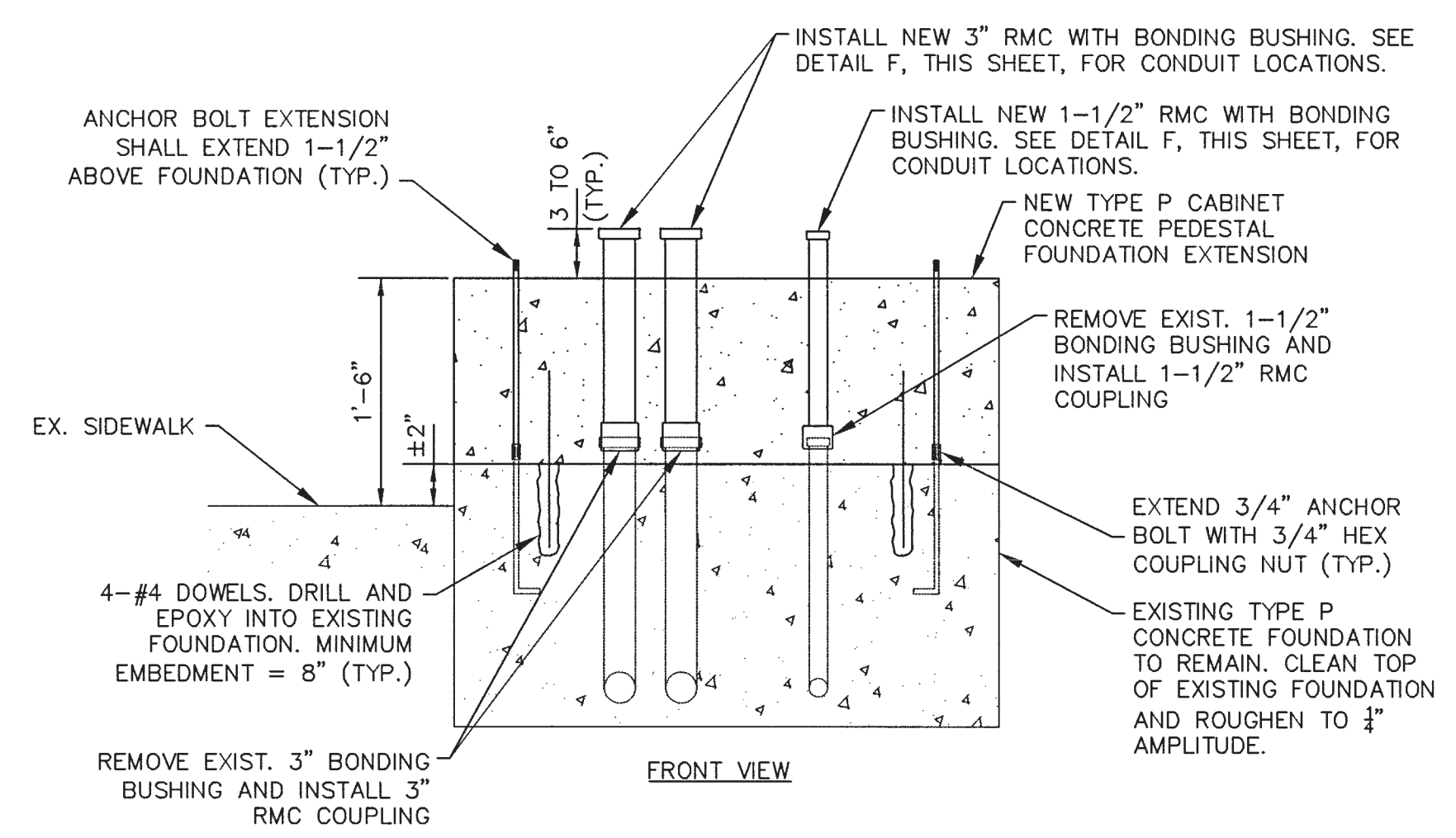
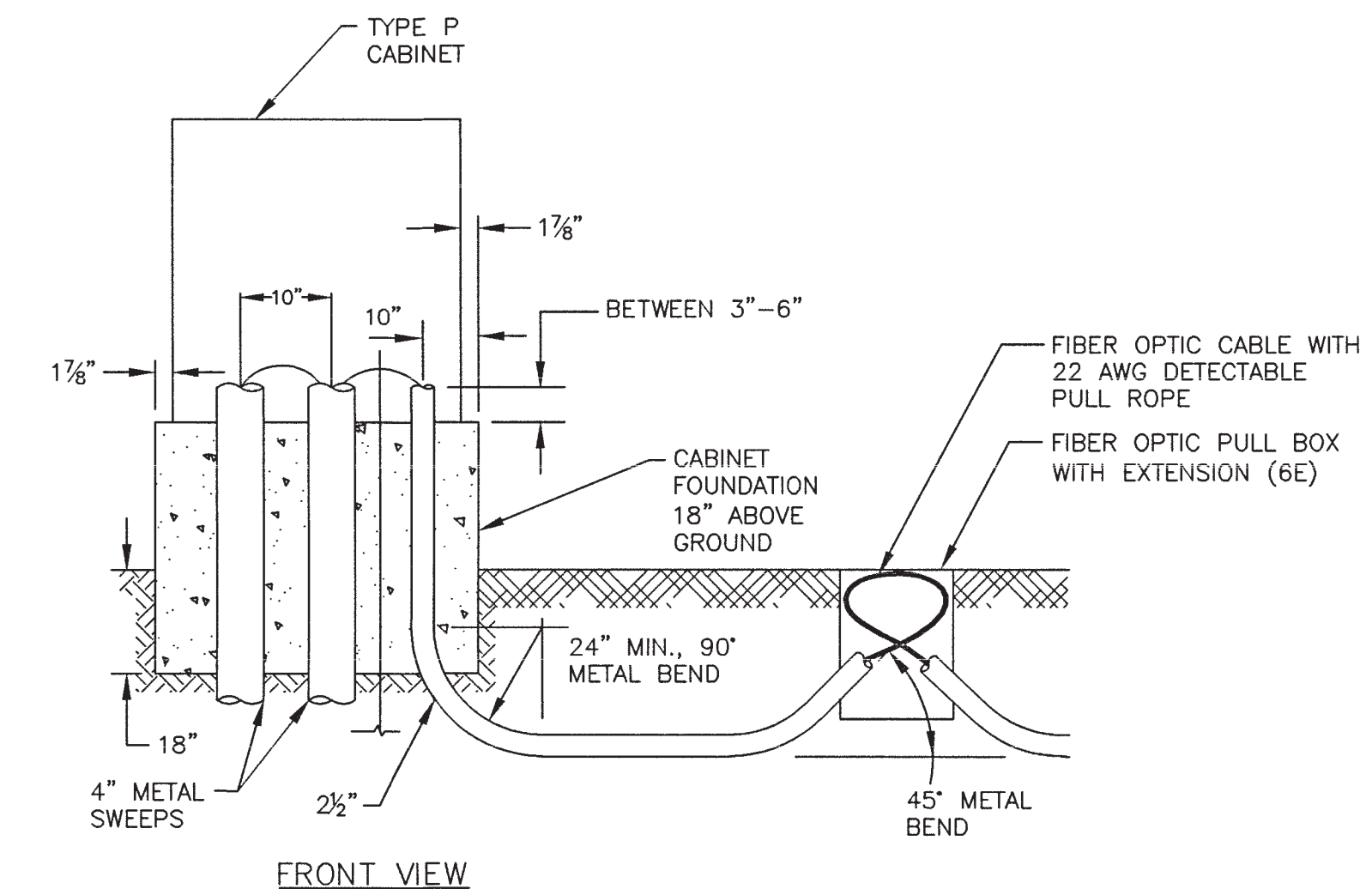
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 12/19/2019 10:00:00 AM



**DETAIL G: TYPE III-AF SERVICE WIRING DIAGRAM**  
NOT TO SCALE



**DETAIL H: TYPE P CONTROLLER CABINET FOUNDATION**  
NOT TO SCALE



**DETAIL I: TYPE P CONTROLLER CABINET FOUNDATION MODIFICATION**  
NOT TO SCALE



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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1300 Clay Street, Suite 325  
Oakland, California 94612  
Phone: (510) 625-0712

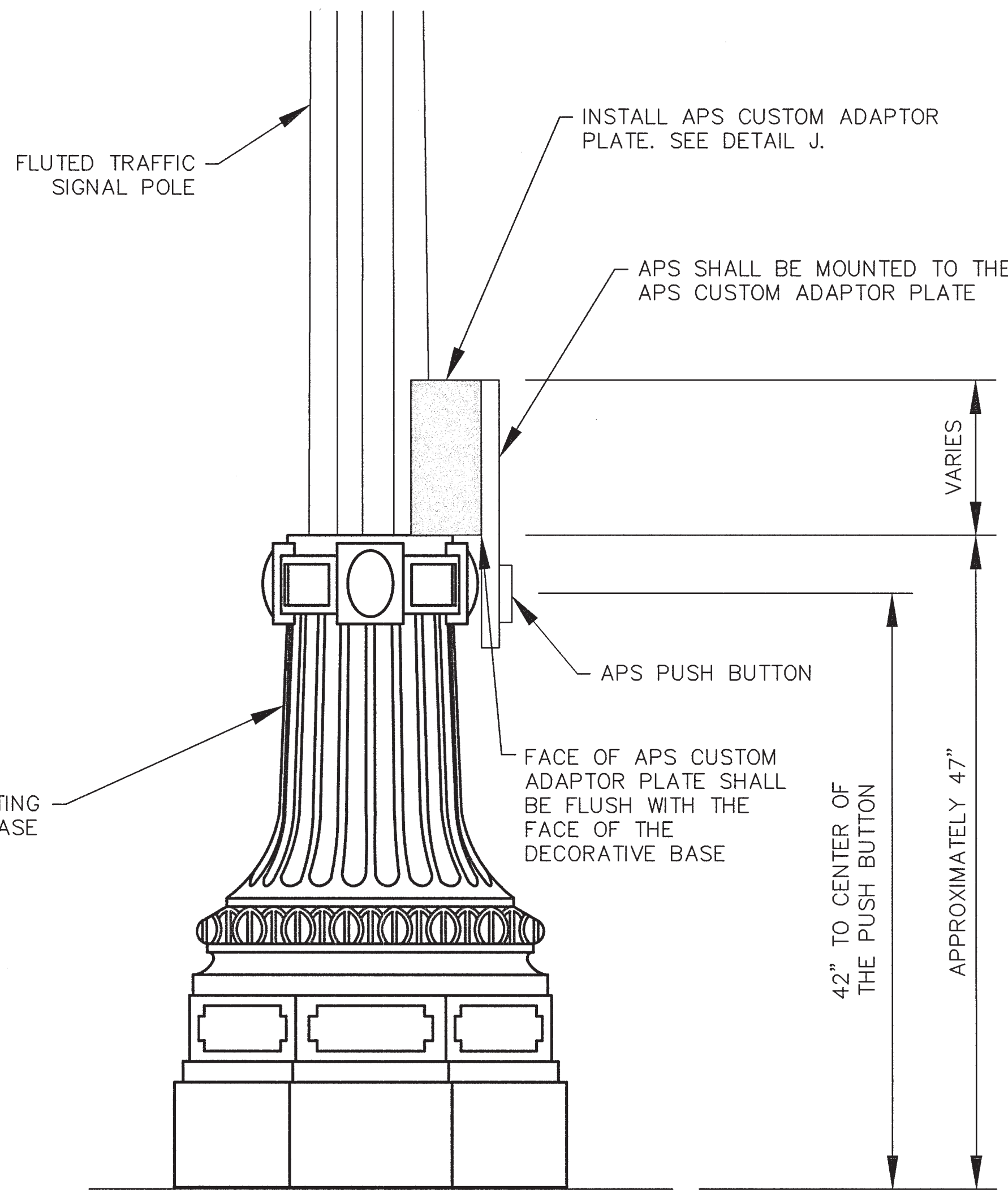
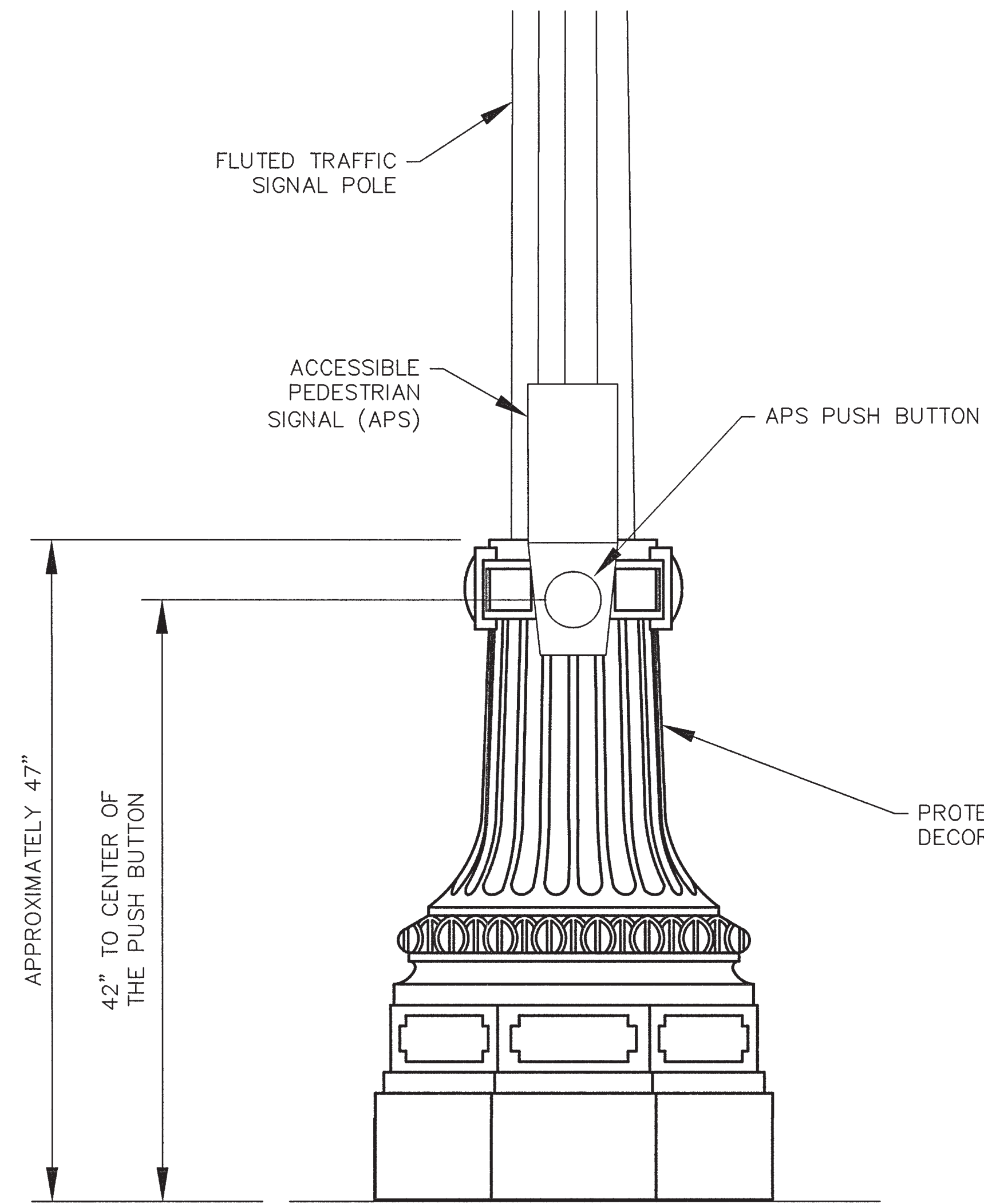
DESIGNED UNDER THE SUPERVISION OF:  
*[Signature]*  
KEVIN G. AGUIGUI  
R.C.E. No. 048732, EXP. 9/30/22  
DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

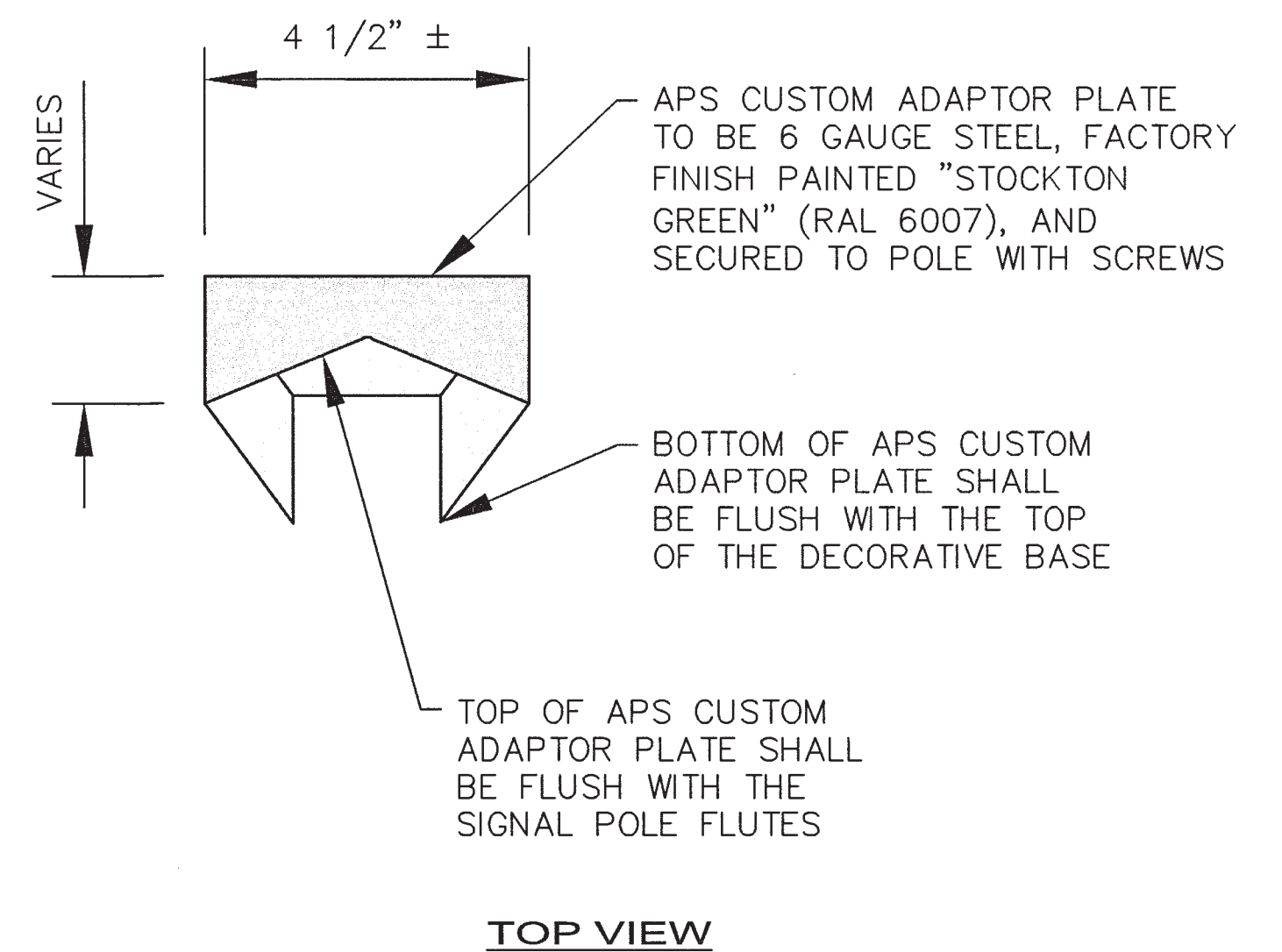
DETAILS		PROJECT NO.	
DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		PW1516	
DATE: DECEMBER 2019	APPROVED BY: <i>[Signature]</i>	SHEET NO.	
SCALE: NONE	DATE: 12/19/2019	DT-4	
DRAWN BY: MWW	CITY ENGINEER	SHEET 6 OF 38	
DESIGNED BY: ISW	STOCKTON, CALIFORNIA		
CHECKED BY: EKC			

5365.5C



**DETAIL K: ACCESSIBLE PEDESTRIAN SYSTEM  
FLUTED DECORATIVE POLE MOUNT**

NOT TO SCALE



**DETAIL J: ACCESSIBLE PEDESTRIAN SYSTEM  
CUSTOM ADAPTOR PLATE**

NOT TO SCALE

No. 18, 2019 - 12:28pm - USER: jsmith@pwps K:\WORK\175\097020017 - Section BRT V - RGA\04\_CADD\SheetA7 DT08.dwg



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*[Signature]* 12/19/2019

KEVIN G. AGUIGUI DATE

R.C.E. No. 048732, EXP. 9/30/22



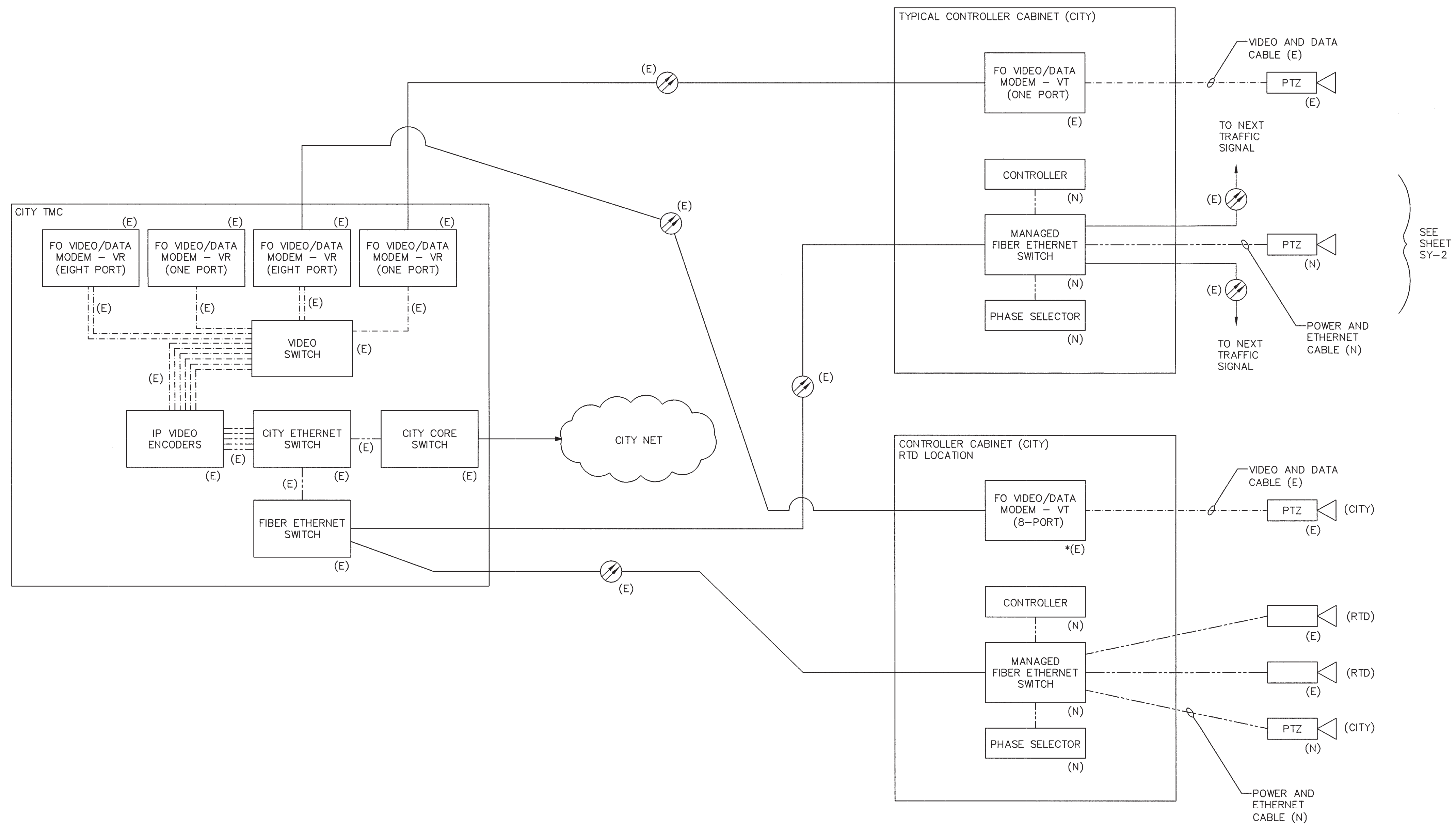
BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**DETAILS**

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: <i>[Signature]</i> DATE: 3/31/20	PROJECT NO. PW1516
SCALE: NONE	DRAWN BY: TSW	SHEET NO. DT-5
DESIGNED BY: ISW	CHECKED BY: EKC	SHEET 2 OF 36

5365-6C



**LEGEND**  
 (E) = EXISTING  
 (N) = NEW (CONTRACTOR FURNISHED)  
 \* = WORK BY CITY  
 / = FIBER CONNECTION  
 - - - - - CAT 5E CABLE  
 - - - - - COAXIAL CABLE  
 - - - - - SMFO PATCH CABLE  
 VT = VIDEO TRANSMITTER  
 VR = VIDEO RECEIVER

Rev. 10 2019 - 10 2019 - USER: jsmith@kvh.com  
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BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY,  
 FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**SYSTEM DIAGRAM**

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

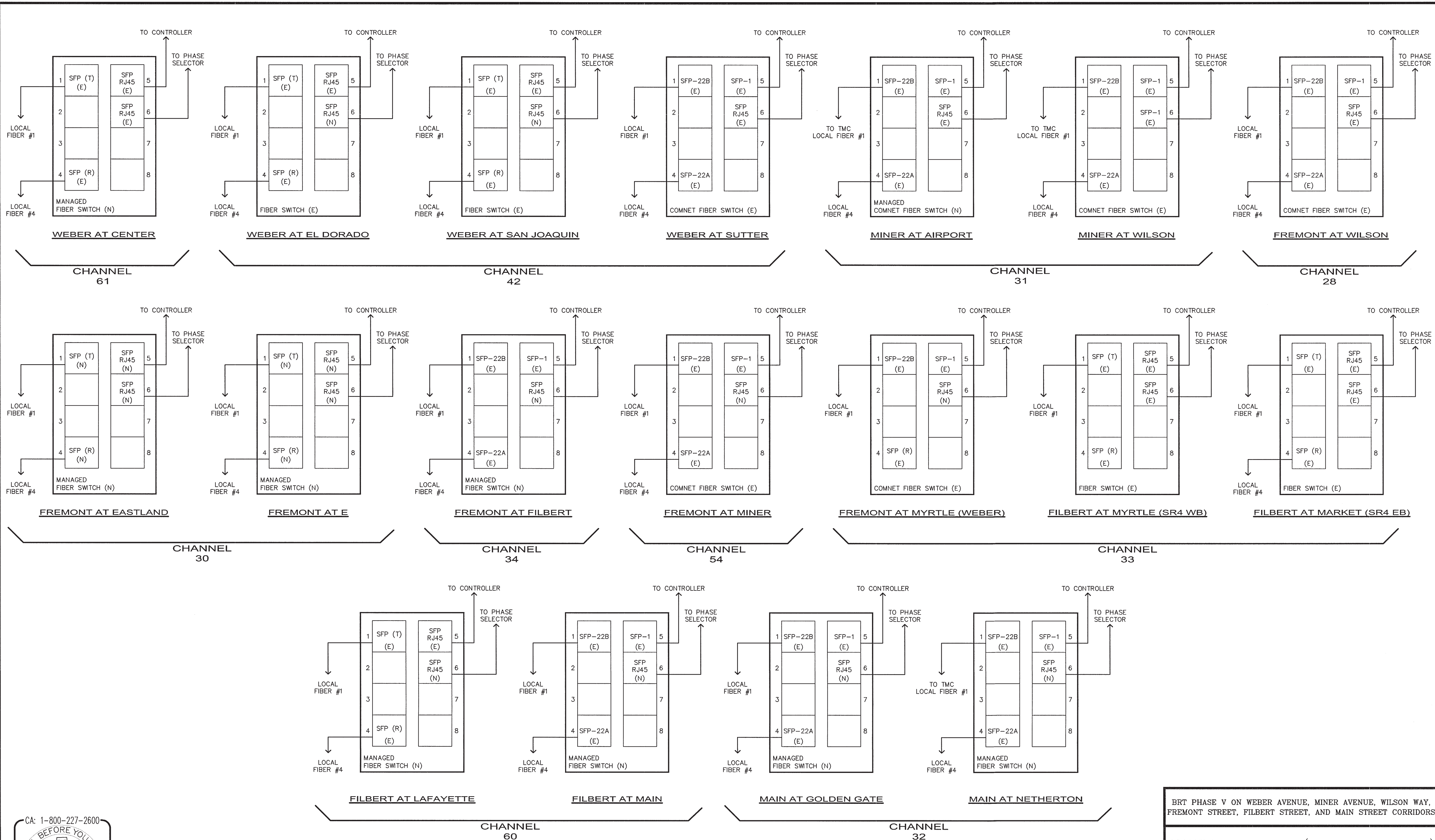
DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI DATE 12/19/2019  
 R.C.E. No. 048732, EXP. 9/30/22



DATE: DECEMBER 2019	APPROVED BY:	DATE: 3/31/20	PROJECT NO. PW1516
SCALE: NONE	DRAWN BY: MWW	DESIGNED BY: ISW	SHEET NO. SY-1
CHECKED BY: EKC	CITY ENGINEER	STOCKTON, CALIFORNIA	SHEET 8 OF 36

5365-7C





Date: 10/20/19 - 12:20pm - USER: Joseph.Horn@pw.ca.gov - Location: BRT V - Folder: (A...\_CAD) (Sheet) 9 SY02.dwg  
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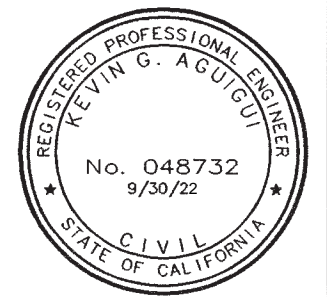


(T) - TRANSMIT  
 (R) - RECEIVE  
 (E) - DENOTES EXISTING EQUIPMENT  
 (N) - DENOTES NEW (CONTRACTOR FURNISHED) EQUIPMENT

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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 Oakland, California 94612  
 Phone: (510) 625-0712

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 KEVIN G. AGJIGUI  
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 DATE: 12/19/2019

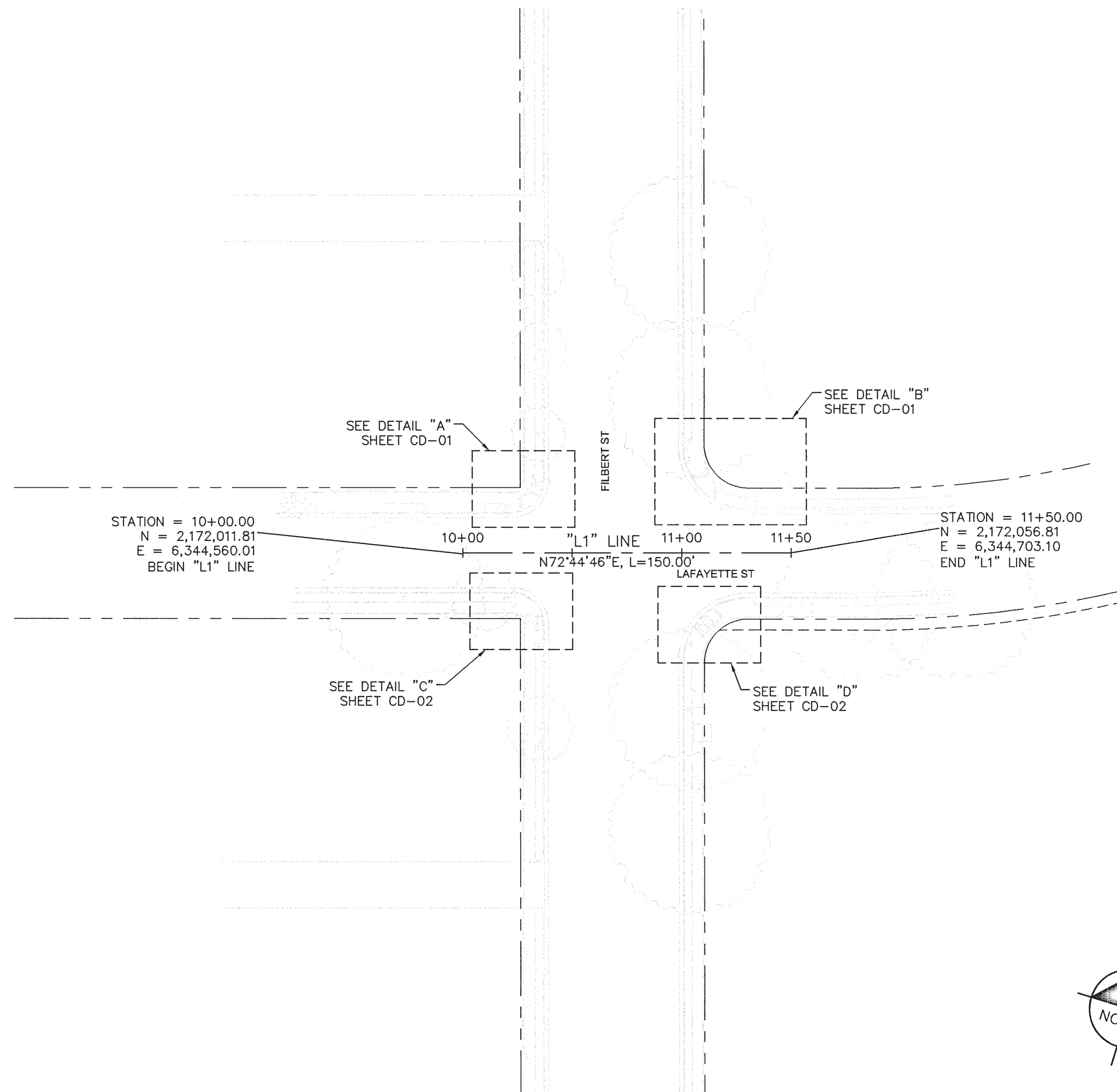


BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

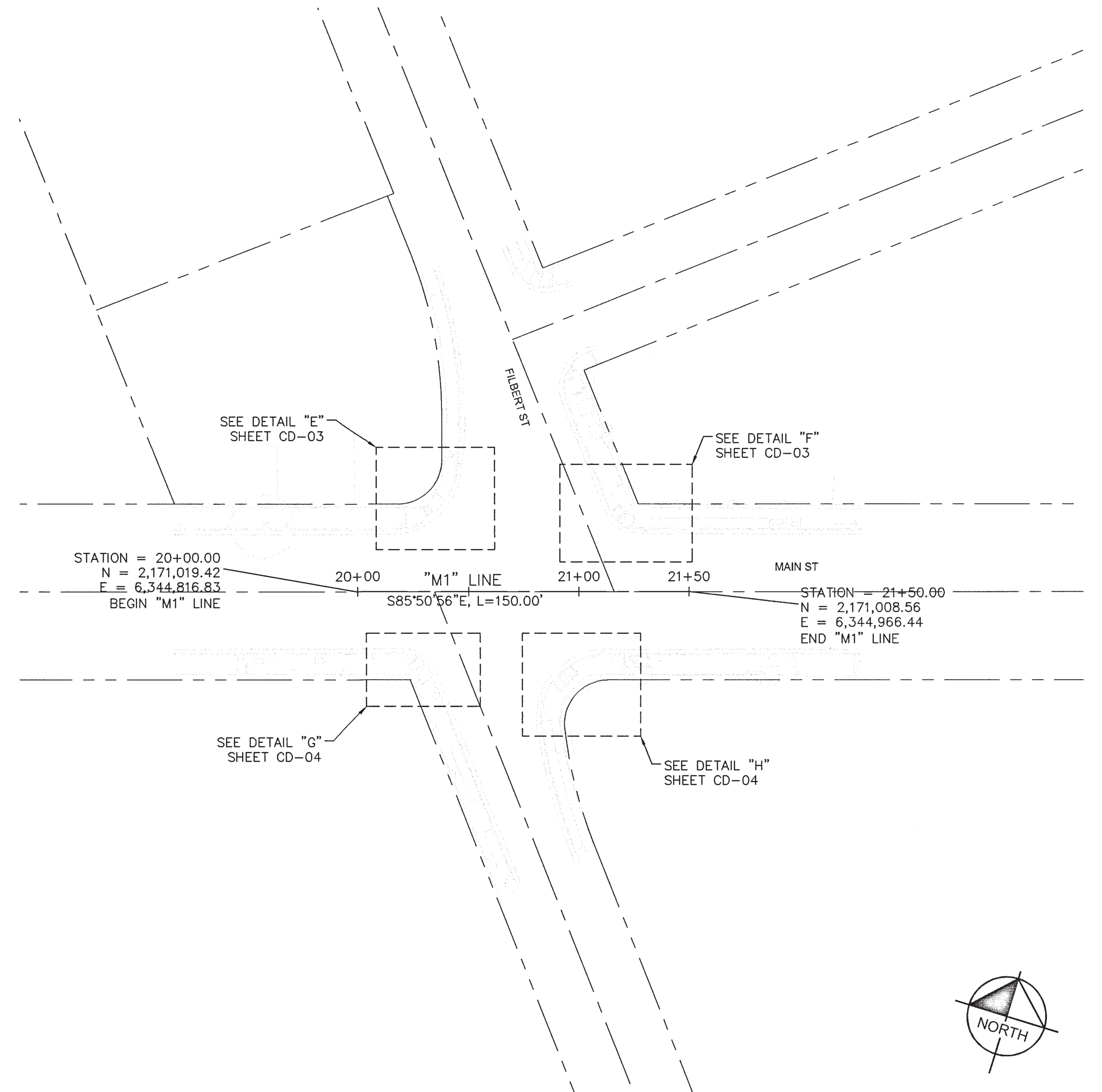
**SYSTEM DIAGRAM (FIBER SWITCHES)**

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		PROJECT NO. PW1516
DATE: DECEMBER 2019	APPROVED BY:	SHEET NO. SY-2
SCALE: NONE	DESIGNED BY: ISW	CHECKED BY: EKC
DESIGNED BY: ISW		CHECKED BY: EKC

5365.BC



FILBERT AT LAFAYETTE HORIZONTAL CONTROL & KEY MAP  
SCALE: 1" = 40'



MAIN AT FILBERT HORIZONTAL CONTROL & KEY MAP  
SCALE: 1" = 40'

MONUMENT TABLE			
EASTING	NORTHING	ELEVATION	DESCRIPTION
2173513.54	6344145.12	23.64	BRASS DISK MARKING COS MONUMENT STAMPED "5S-6" IN MONUMENT WELL ON THE WEST SIDE OF FILBERT ST 5 FT SOUTH OF THE SOUTH RAIL OF THE S.P.R.R. TRACK.
2171010.94	6344920.65	24.11	BRASS DISK MARKING COS MONUMENT STAMPED "5S-7" IN MONUMENT WELL AT THE INTERSECTION OF APPROXIMATE CENTERLINES OF FILBERT ST AND MAIN ST.
2167317.50	6343741.87	24.97	BRASS DISK MARKING COS MONUMENT STAMPED "5S-12" IN MONUMENT WELL IN TRAFFIC CONTROL ISLAND AT THE SOUTH SIDE OF CHARTER WAY AT MARIPOSA RD.

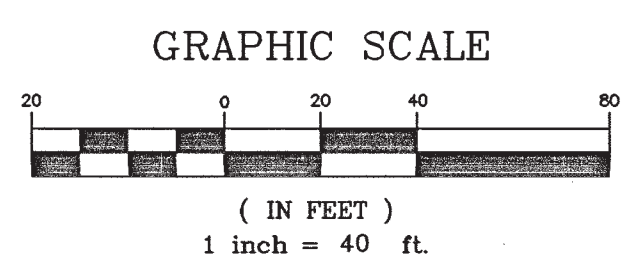
**BASIS OF BEARING**

HORIZONTAL DATUM:

NAD83(1991.35), CALIFORNIA COORDINATE SYSTEM ZONE 3, PER THE CITY OF STOCKTON HORIZONTAL CONTROL SYSTEM PHASE XIV PER THE RECORD OF SURVEY ON FILE IN BOOK 35 OF SURVEYS, AT PAGE 5, SAN JOAQUIN COUNTY RECORDS. SEE SAID SURVEY FOR MORE DETAILS.

VERTICAL DATUM:

NAVD88, PER THE 2011 CONVERSION OF THE CITY OF STOCKTON BENCHMARK NETWORK.



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
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 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI DATE: 12/19/2019  
 R.C.E. No. 048732, EXP. 9/30/22



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**HORIZONTAL CONTROL PLAN**  
 FILBERT STREET AT LAFAYETTE STREET & MAIN STREET AT FILBERT STREET

DEPARTMENT OF PUBLIC WORKS CITY OF STOCKTON, CALIFORNIA		PROJECT NO.
DATE: DECEMBER 2019	APPROVED BY:	PW1516
SCALE: AS NOTED	DATE: 9/31/20	SHEET NO.
DRAWN BY: JT/BL	CITY ENGINEER	HC-1
DESIGNED BY: BL	STOCKTON, CALIFORNIA	SHEET 10 OF 39
CHECKED BY: EKC		

5365-9C

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**LEGEND**

- SIDEWALK (6" PCC / 4" AB)
- DETECTABLE WARNING SURFACE
- AC PLUG (8")
- NATIVE
- SAWCUT
- GRADEBREAK

**CONSTRUCTION NOTES**

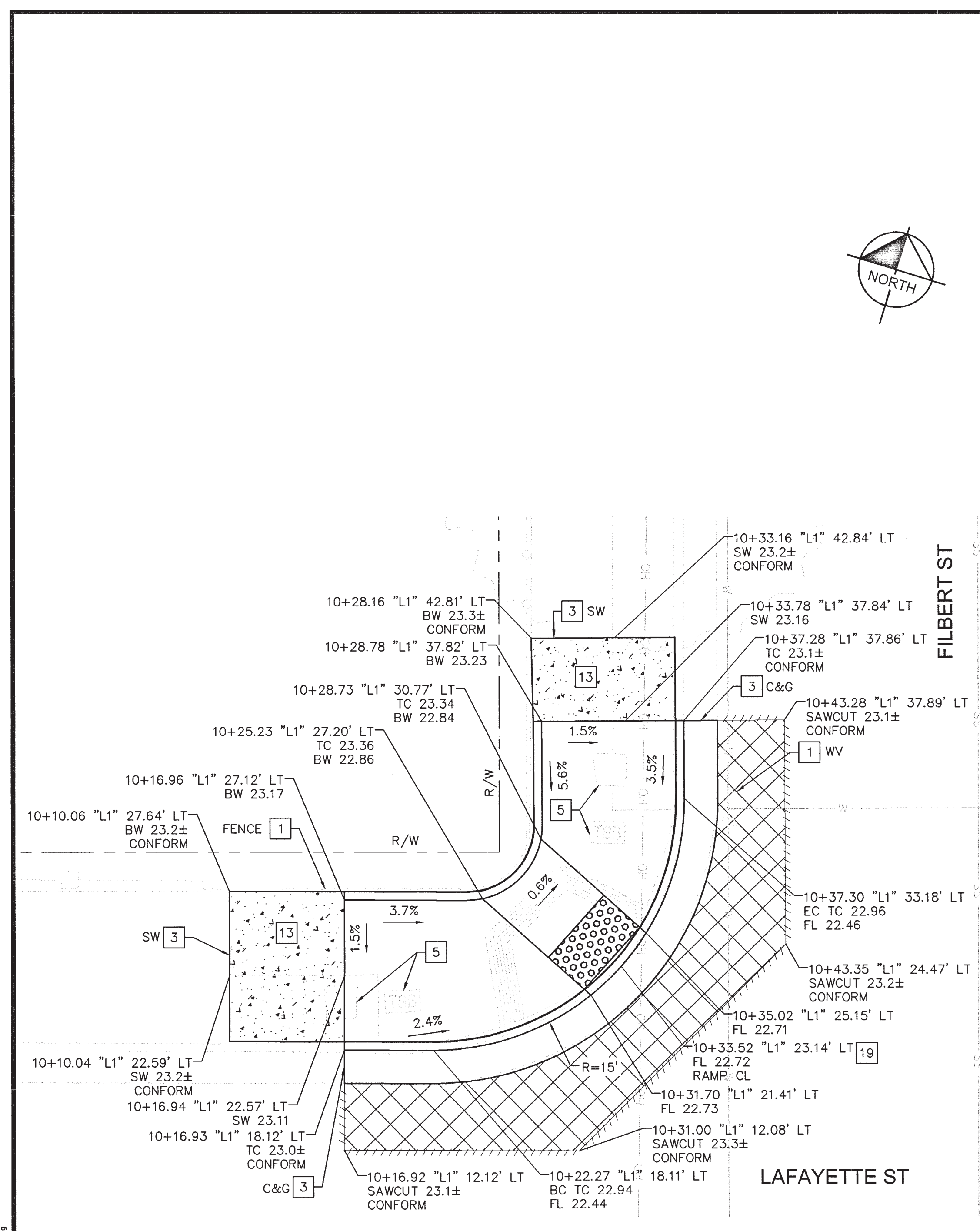
- 1 EXISTING TO REMAIN
- 3 CONFORM TO EXISTING (SEE NOTE 1)
- 5 EXISTING SIGNAL UTILITY. SEE SIGNAL SHEETS FOR MORE DETAIL
- 6 RELOCATE EXISTING STREET SIGN W/ POST AS SHOWN
- 7 RELOCATE EXISTING FENCE AS SHOWN. CONTRACTOR TO EXECUTE VENDOR TERMS OF AGREEMENT PER SECTION 73-1.02 (FENCE RELOCATION) OF THE SPECIAL PROVISIONS PRIOR TO STARTING ANY WORK OUTSIDE OF THE CITY RIGHT OF WAY.
- 12 CONSTRUCT "CASE B" CURB RAMP PER 2018 CALTRANS STANDARD PLANS A88A
- 13 CONSTRUCT SIDEWALK PER CITY OF STOCKTON DWG NO. R-50
- 14 CONSTRUCT CURB AND GUTTER PER CITY OF STOCKTON DWG NO. R-52
- 15 CONSTRUCT ROLL CURB TRANSITION DETAIL PER CITY OF STOCKTON DWG NO. R-53
- 19 CONSTRUCT "CASE C" CURB RAMP PER 2018 CALTRANS STANDARD PLANS A88A

**GENERAL NOTES**

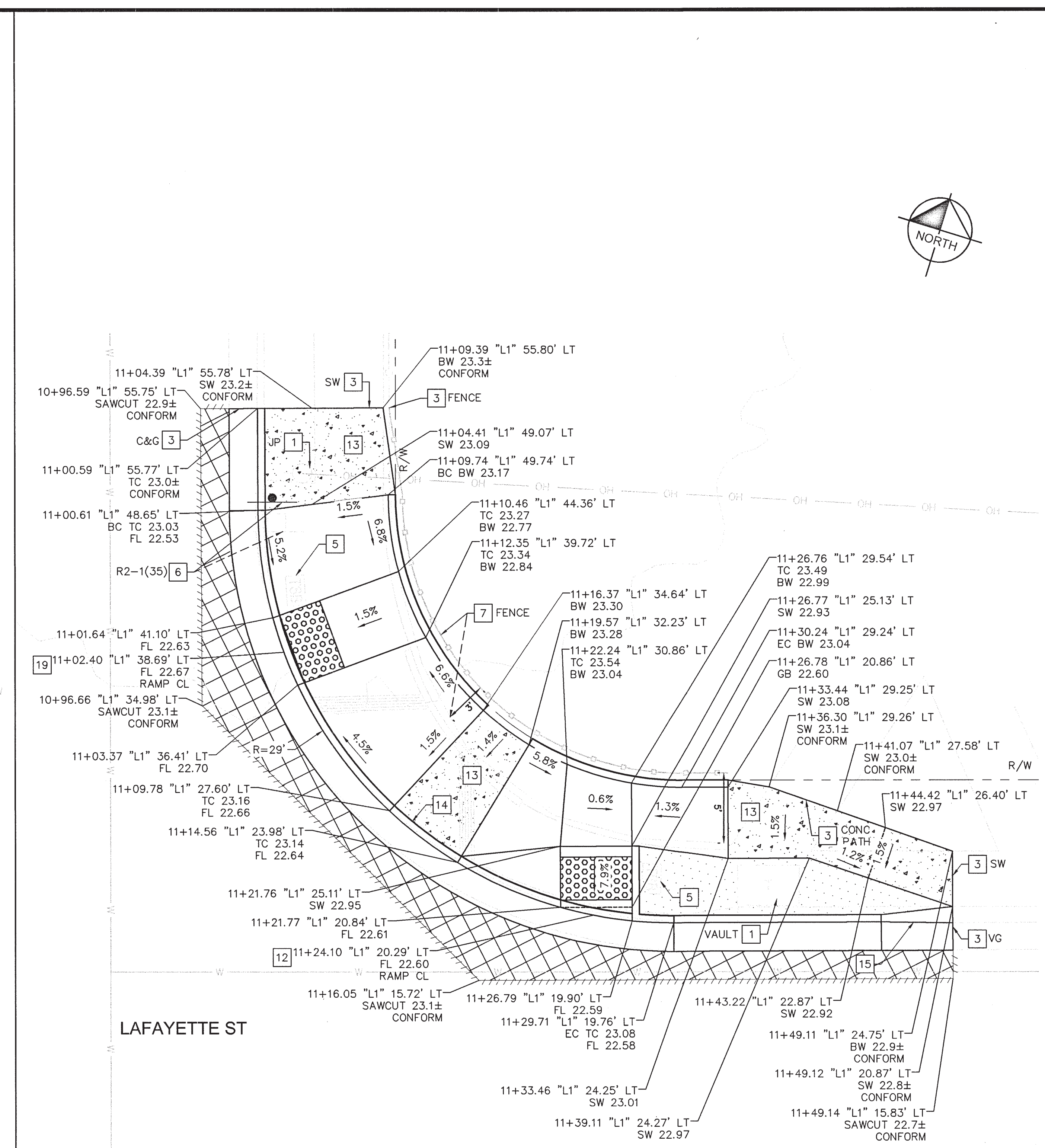
1. CONFORM SIDEWALK AT SCOREMARK OR NEAREST EXPANSION JOINT. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER OR CONTRACTOR. SIDEWALK CONFORM TO EXISTING SHALL FOLLOW CITY OF STOCKTON DWG NO. R-55, R-56.

**ABBREVIATIONS**

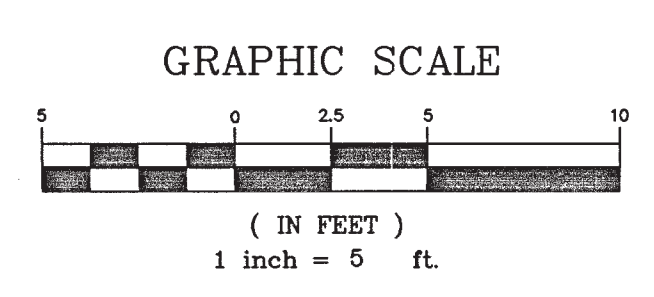
BC	BEGIN CURVE
BW	BACK OF WALK
C&G	CURB & GUTTER
CL	CENTERLINE
DWY	DRIVEWAY
FH	FIRE HYDRANT
FL	FLOWLINE
GB	GRADE BREAK
JP	JOINT POLE
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SW	SIDEWALK
TC	TOP OF CURB
VG	VALLEY GUTTER
WV	WATER VALVE



**CURB RAMP DETAIL A**  
SCALE: 1" = 5'



**CURB RAMP DETAIL B**  
SCALE: 1" = 5'



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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 Oakland, California 94612  
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DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN S. AGUIGUI DATE 12/19/2019  
 R.C.E. No. 048732, EXP. 9/30/22



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**CONSTRUCTION DETAILS**  
FILBERT STREET AT LAFAYETTE STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY:	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 3/31/20	SHEET NO. CD-1
DRAWN BY: JT/BL	CITY ENGINEER	SHEET 11 OF 36
DESIGNED BY: BL	STOCKTON, CALIFORNIA	
CHECKED BY: EKC		

5365.10C

**LEGEND**

- SIDEWALK (6" PCC / 4" AB)
- DETECTABLE WARNING SURFACE
- AC PLUG (8")
- NATIVE
- SAWCUT
- GRADEBREAK

**CONSTRUCTION NOTES**

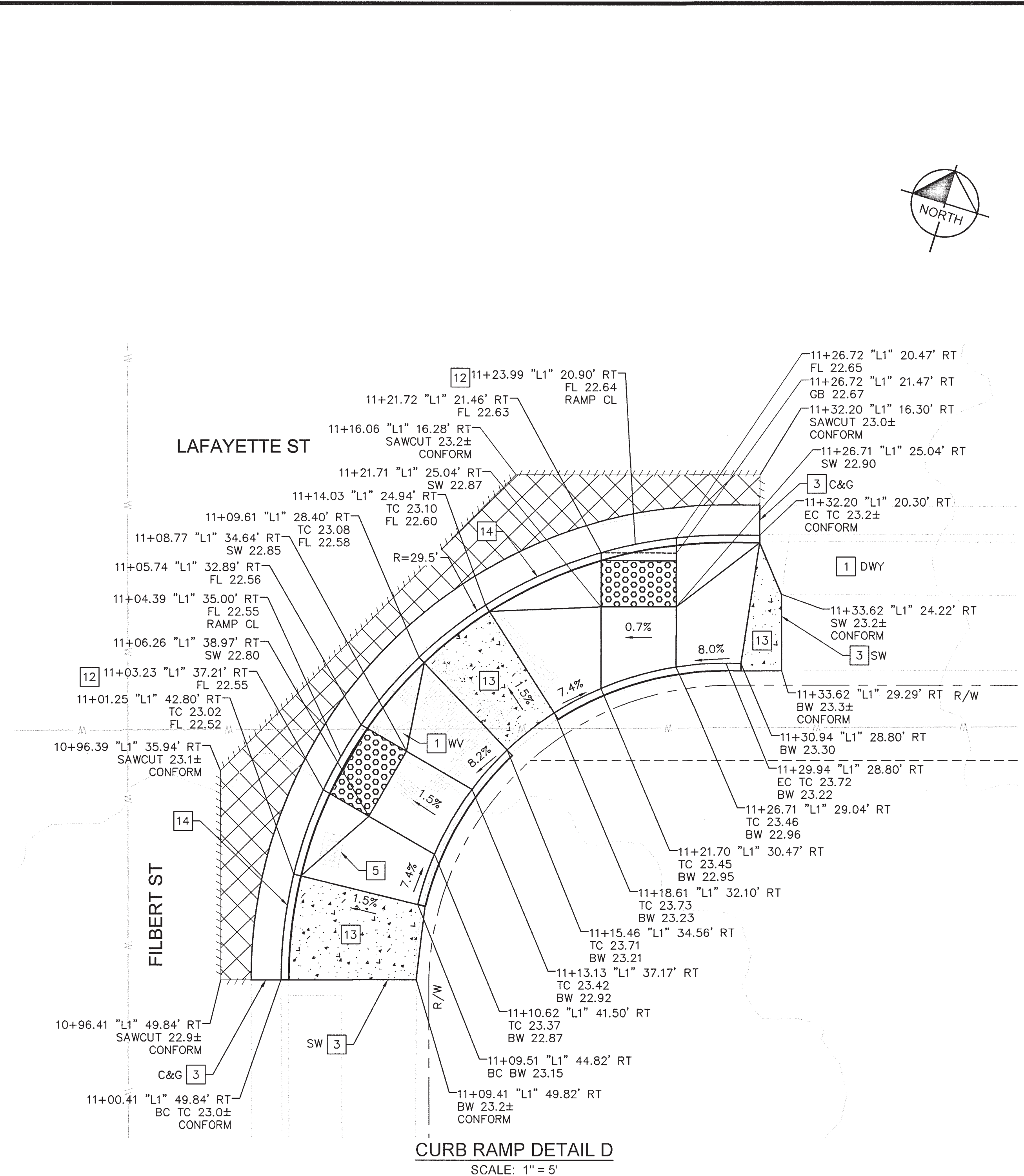
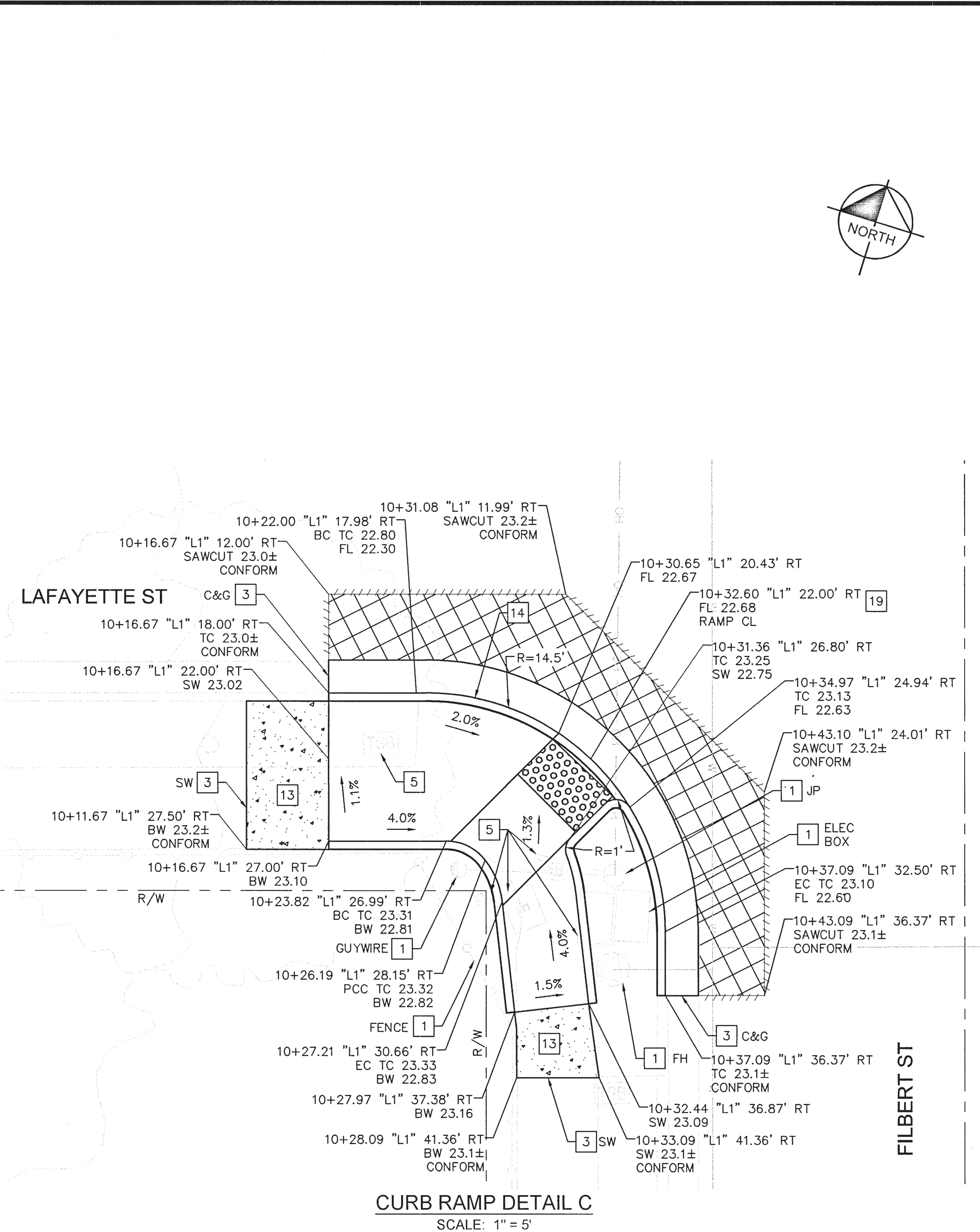
- 1** EXISTING TO REMAIN
- 3** CONFORM TO EXISTING (SEE NOTE 1)
- 5** EXISTING SIGNAL UTILITY. SEE SIGNAL SHEETS FOR MORE DETAIL
- 12** CONSTRUCT "CASE B" CURB RAMP PER 2018 CALTRANS STANDARD PLANS A88A
- 13** CONSTRUCT SIDEWALK PER CITY OF STOCKTON DWG NO. R-50
- 14** CONSTRUCT CURB AND GUTTER PER CITY OF STOCKTON DWG NO. R-52
- 19** CONSTRUCT "CASE C" CURB RAMP PER 2018 CALTRANS STANDARD PLANS A88A

**GENERAL NOTES**

- 1. CONFORM SIDEWALK AT SCOREMARK OR NEAREST EXPANSION JOINT. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER OR CONTRACTOR. SIDEWALK CONFORM TO EXISTING SHALL FOLLOW CITY OF STOCKTON DWG NO. R-55, R-56.

**ABBREVIATIONS**

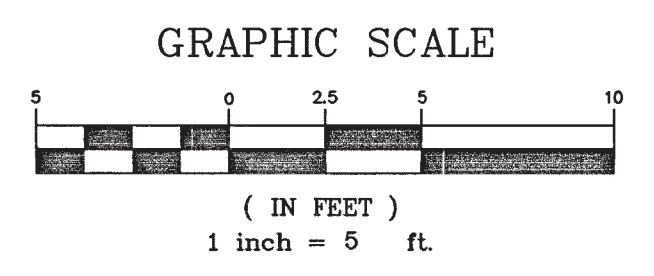
BC	BEGIN CURVE
BW	BACK OF WALK
C&G	CURB & GUTTER
CL	CENTERLINE
DWY	DRIVEWAY
FH	FIRE HYDRANT
FL	FLOWLINE
GB	GRADE BREAK
JP	JOINT POLE
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SW	SIDEWALK
TC	TOP OF CURB
VG	VALLEY GUTTER
WV	WATER VALVE



CA: 1-800-227-2600

CALL BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT

CA: 1-800-227-2600  
CALL TWO WORKING DAYS BEFORE YOU DIG



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
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Phone: (510) 625-0712

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KEVIN G. AGUIGUI  
R.C.E. No. 048732, EXP. 9/30/22

DATE: 12/19/2019

BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

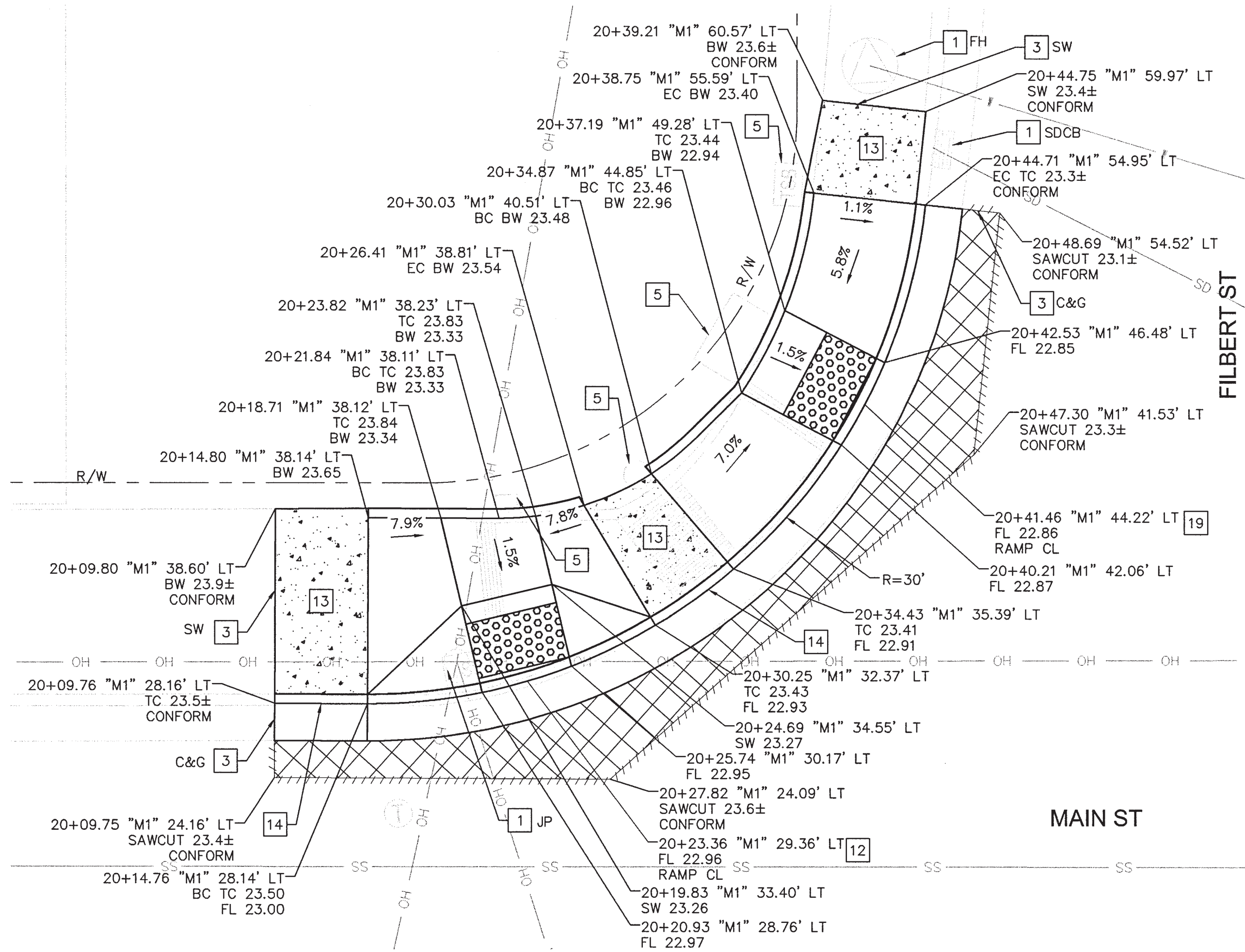
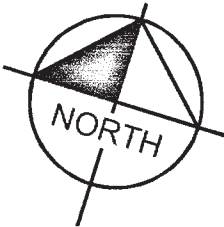
**CONSTRUCTION DETAILS**  
FILBERT STREET AT LAFAYETTE STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

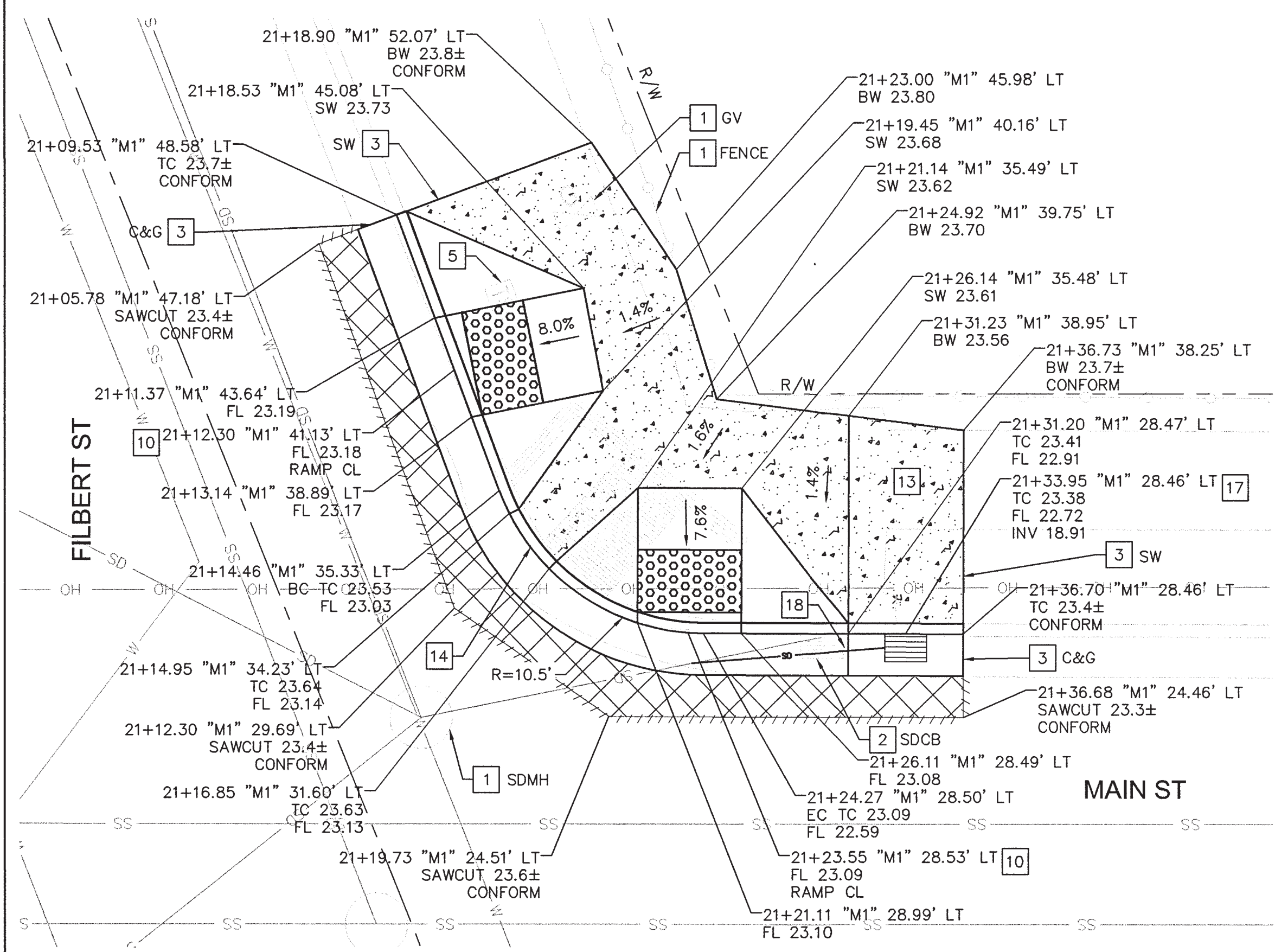
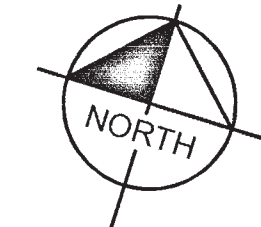
DATE: DECEMBER 2019	SCALE: AS NOTED	APPROVED BY:	PROJECT NO. PW1516
DRAWN BY: JT/BL	CHECKED BY: EKC	CITY ENGINEER STOCKTON, CALIFORNIA	SHEET NO. CD-2

5365.11C

Dec 19, 2019 - 10:20am - USER: kash@ksh.com  
 K:\GVA\GIS\97102017 - Station BRT V - KGA\GVA\_CADD\Sheets\Sheet\10 H001.dwg



**CURB RAMP DETAIL E**  
SCALE: 1" = 5'



**CURB RAMP DETAIL F**  
SCALE: 1" = 5'

**LEGEND**

- 
- 
- 
- 
- 
- 

**CONSTRUCTION NOTES**

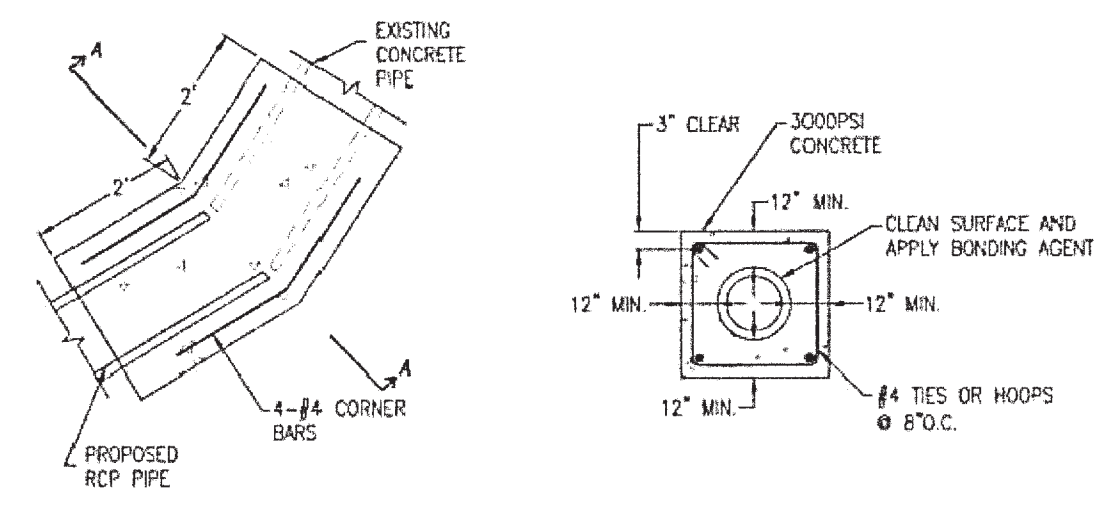
- 1 EXISTING TO REMAIN
- 2 EXISTING TO BE REMOVED
- 3 CONFORM TO EXISTING (SEE NOTE 1)
- 5 EXISTING SIGNAL UTILITY. SEE SIGNAL SHEETS FOR MORE DETAIL
- 10 CONSTRUCT TYPICAL WHEELCHAIR RAMP PER CITY OF STOCKTON DWG NO. R-64
- 12 CONSTRUCT "CASE B" CURB RAMP PER 2018 CALTRANS STANDARD PLANS A88A
- 13 CONSTRUCT SIDEWALK PER CITY OF STOCKTON DWG NO. R-50
- 14 CONSTRUCT CURB AND GUTTER PER CITY OF STOCKTON DWG NO. R-52
- 17 CONSTRUCT NEW TYPE 2 CURB INLET CATCH BASIN PER CITY OF STOCKTON DWG NO. D-8
- 18 INSTALL NEW 12" CLASS III R.C.P. PIPE, CONNECT TO EXISTING PIPE BY 11-DEGREE DUCTILE IRON FITTING.
- 19 CONSTRUCT "CASE C" CURB RAMP PER 2018 CALTRANS STANDARD PLANS A88A

**GENERAL NOTES**

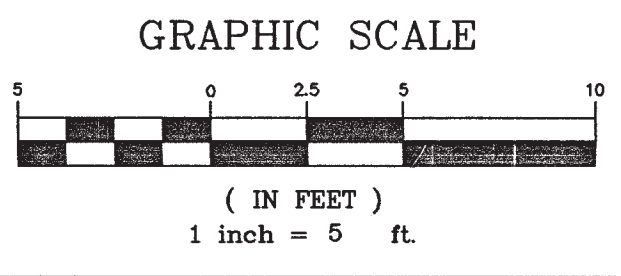
1. CONFORM SIDEWALK TO SCOREMARK OR NEAREST EXPANSION JOINT. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER OR CONTRACTOR. SIDEWALK CONFORM TO EXISTING SHALL FOLLOW CITY OF STOCKTON DWG NO. R-55, R-56.

**ABBREVIATIONS**

BC	BEGIN CURVE
BW	BACK OF WALK
C&G	CURB & GUTTER
CL	CENTERLINE
DWY	DRIVEWAY
FH	FIRE HYDRANT
FL	FLOWLINE
GB	GRADE BREAK
JP	JOINT POLE
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SW	SIDEWALK
TC	TOP OF CURB
VG	VALLEY GUTTER
WV	WATER VALVE



**CONCRETE COLLAR DETAIL**  
NTS



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**

1300 Clay Street, Suite 325  
Oakland, California 94612  
Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

12/19/2019

KEVIN G. AGUIGUI DATE  
R.C.E. No. 048732, EXP. 9/30/22

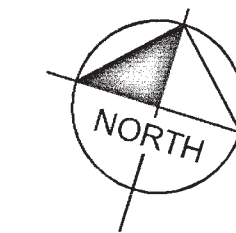
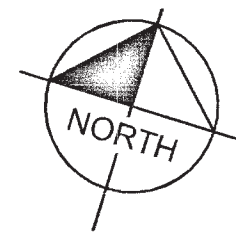
BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**CONSTRUCTION DETAILS**  
MAIN STREET AT FILBERT STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY:	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 3/31/20	SHEET NO. CD-3
DRAWN BY: JT/EL	CITY ENGINEER	SHEET 13 OF 36
DESIGNED BY: BL	STOCKTON, CALIFORNIA	
CHECKED BY: EKC		

5365.12C



**LEGEND**

- SIDEWALK (6" PCC / 4" AB)
- DETECTABLE WARNING SURFACE
- AC PLUG (8")
- NATIVE
- SAWCUT
- GRADEBREAK

**CONSTRUCTION NOTES**

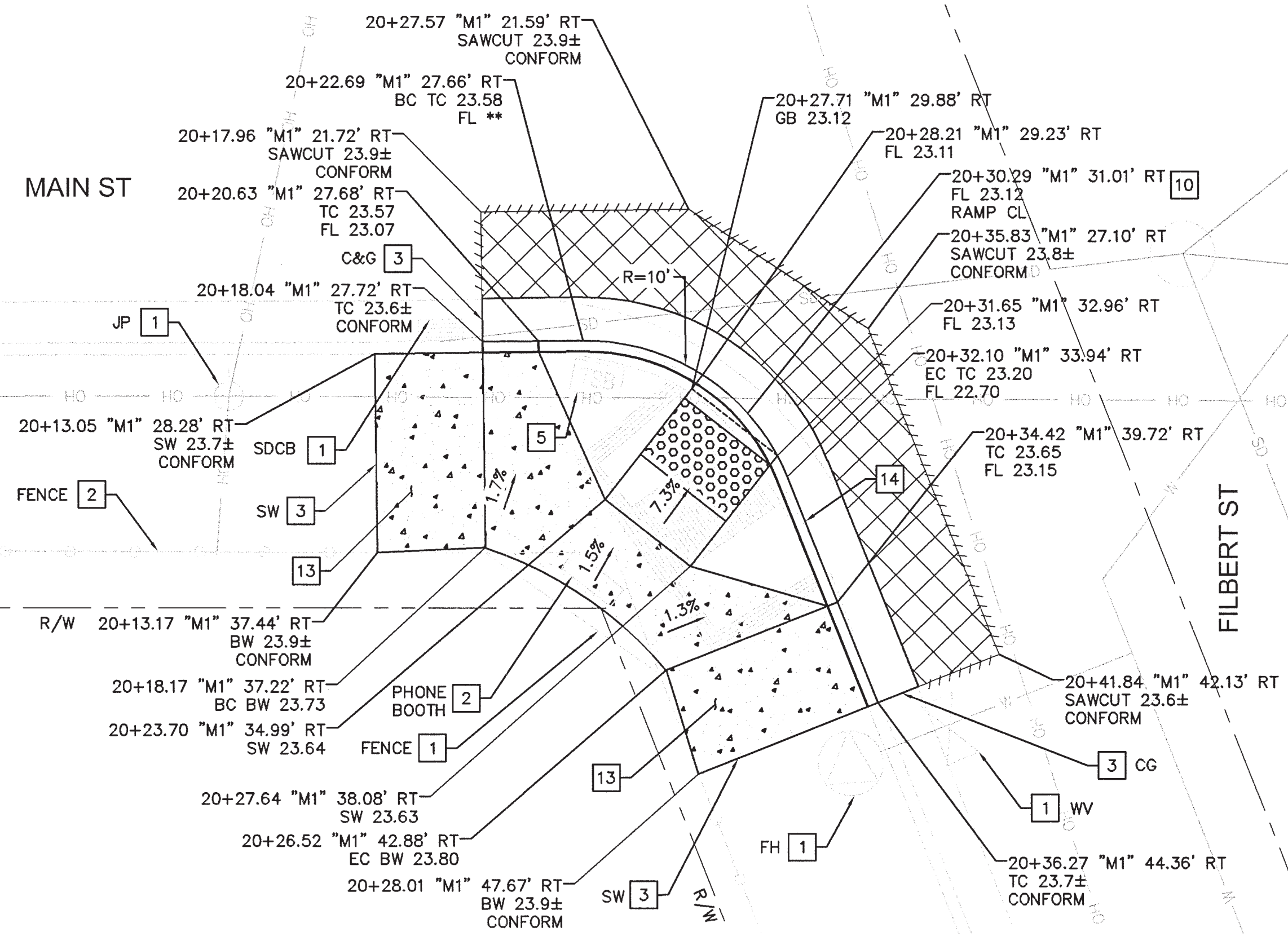
- 1 EXISTING TO REMAIN
- 2 EXISTING TO BE REMOVED
- 3 CONFORM TO EXISTING (SEE NOTE 1)
- 5 EXISTING SIGNAL UTILITY. SEE SIGNAL SHEETS FOR MORE DETAIL
- 10 CONSTRUCT TYPICAL WHEELCHAIR RAMP PER CITY OF STOCKTON DWG NO. R-64
- 12 CONSTRUCT "CASE B" CURB RAMP PER 2018 CALTRANS STANDARD PLANS AB8A
- 13 CONSTRUCT SIDEWALK PER CITY OF STOCKTON DWG NO. R-50
- 14 CONSTRUCT CURB AND GUTTER PER CITY OF STOCKTON DWG NO. R-52
- 16 RELOCATE EXISTING BOLLARD W/ CONCRETE FOUNDATION AS SHOWN
- 17 CONSTRUCT NEW TYPE 2 CURB INLET CATCH BASIN PER CITY OF STOCKTON DWG NO. D-8

**GENERAL NOTES**

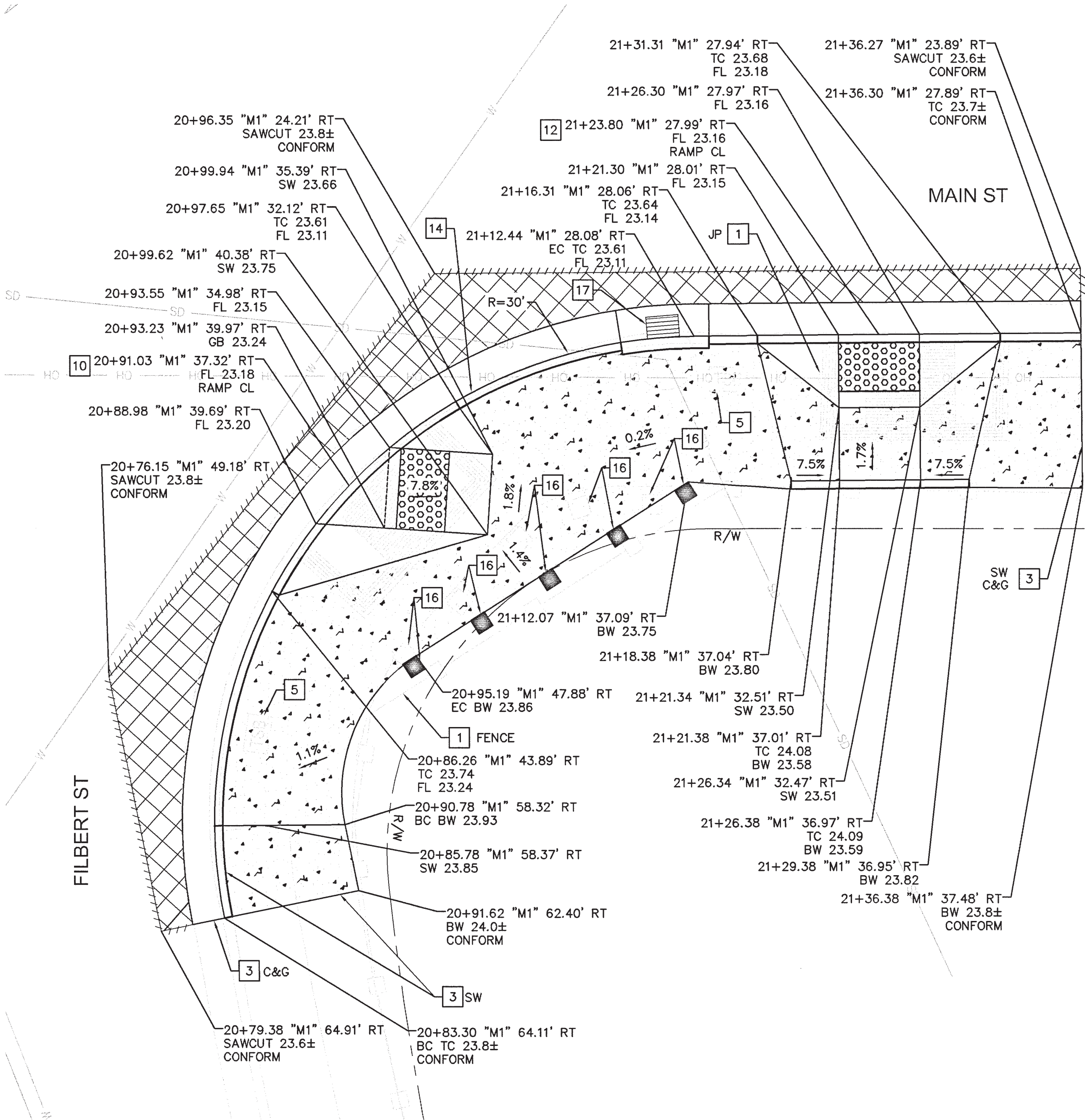
1. CONFORM SIDEWALK AT SCOREMARK OR NEAREST EXPANSION JOINT. EXACT LIMITS TO BE DETERMINED IN THE FIELD BY ENGINEER OR CONTRACTOR. SIDEWALK CONFORM TO EXISTING SHALL FOLLOW CITY OF STOCKTON DWG NO. R-55, R-56.

**ABBREVIATIONS**

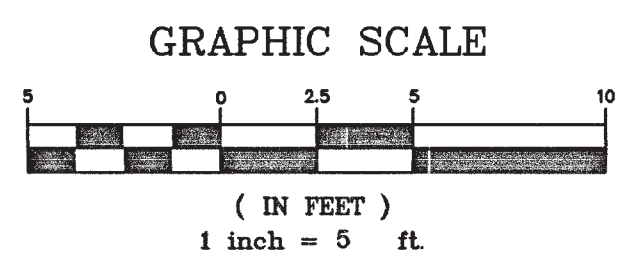
BC	BEGIN CURVE
BW	BACK OF WALK
C&G	CURB & GUTTER
CL	CENTERLINE
DWY	DRIVEWAY
FH	FIRE HYDRANT
FL	FLOWLINE
GB	GRADE BREAK
JP	JOINT POLE
SDCB	STORM DRAIN CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SW	SIDEWALK
TC	TOP OF CURB
VG	VALLEY GUTTER
WV	WATER VALVE



**CURB RAMP DETAIL G**  
SCALE: 1" = 5'



**CURB RAMP DETAIL H**  
SCALE: 1" = 5'

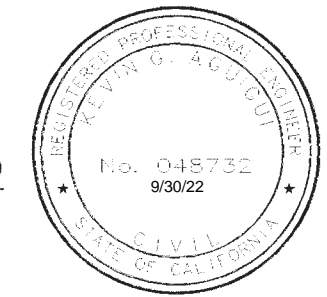


NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22

DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

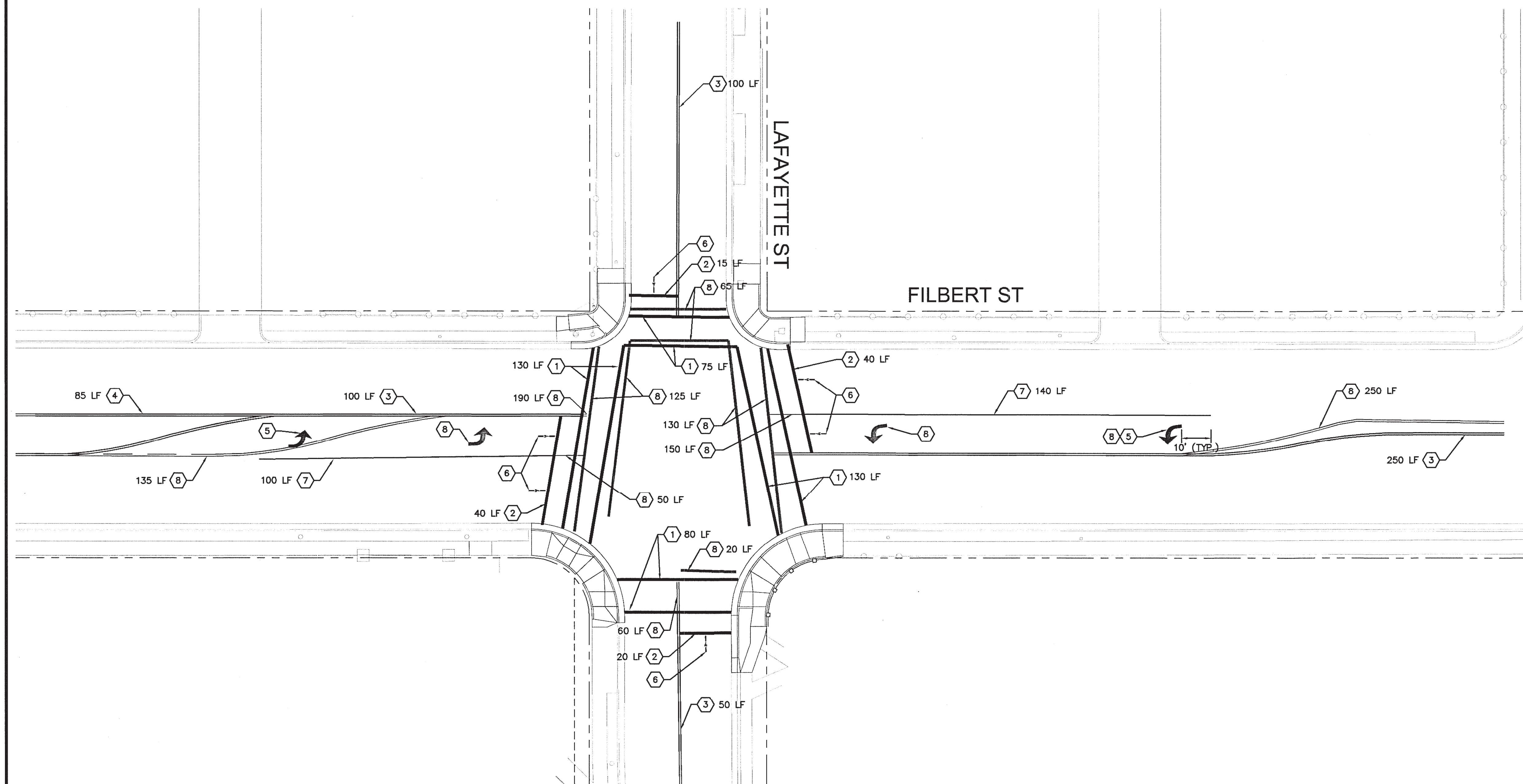
**CONSTRUCTION DETAILS**  
 MAIN STREET AT FILBERT STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY:	DATE: 3/31/20	PROJECT NO.:
SCALE: AS NOTED		CITY ENGINEER	PW1516
DRAWN BY: JT/BL			SHEET NO.:
DESIGNED BY: BL	STOCKTON, CALIFORNIA		CD-4
CHECKED BY: EKC			SHEET 14 OF 36

5365-13C

Dec 19, 2019 - 11:20am - USER: michaels.wood  
 K:\OAK\1579702017 - Stockton BRT V - KCA\04\0400\Sheets\Filbert at Main and Lafayette\PlanSheets\10\1001.dwg



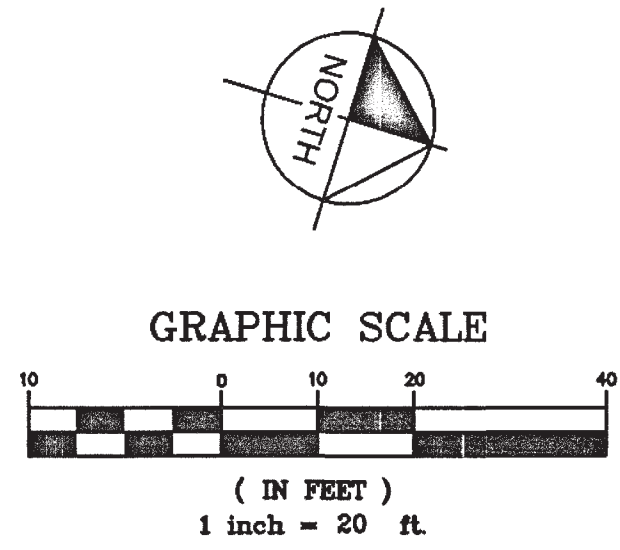
FILBERT STREET AT LAFAYETTE STREET  
SIGNING AND STRIPING PLAN  
SCALE: 1" = 20'

**GENERAL NOTES**

1. ALL PAVEMENT MARKINGS SHALL BE PER CALTRANS STANDARD PLANS A24A THROUGH A24E.
2. ALL STRIPING OR PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
3. REMOVE ALL CONFLICTING LANE LINES OR PAVEMENT MARKINGS.
4. ALL STRIPING SHALL BE PER CA MUTCD.

**SIGNING AND STRIPING CONSTRUCTION NOTES**

1. INSTALL 12" YELLOW THERMOPLASTIC CROSSWALK LINE AT 10' ON CENTER AT CURB RAMPS.
2. INSTALL 24" WHITE THERMOPLASTIC LIMIT LINE 7' FROM CROSSWALK STRIPING PER CITY OF STOCKTON DRAWING NO. R-113.
3. INSTALL DETAIL 22 THERMOPLASTIC CENTERLINE STRIPE. LENGTH AS INDICATED ON PLAN.
4. INSTALL DETAIL 29 THERMOPLASTIC MEDIAN STRIPE. LENGTH AS INDICATED ON PLAN.
5. INSTALL WHITE TYPE IV LEFT ARROW PAVEMENT MARKING.
6. INSTALL BIKE DETECTOR SYMBOL CENTERED IN LANE AND 1' FROM LIMIT LINE PER CITY OF STOCKTON DRAWING NO. R-112.
7. INSTALL DETAIL 38 WHITE THERMOPLASTIC LANE LINE. LENGTH AS INDICATED ON PLAN.
8. REMOVE EXISTING STRIPING OR PAVEMENT MARKING.



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
1300 Clay Street, Suite 325  
Oakland, California 94612  
Phone: (510) 625-0712 © 2020

DESIGNED UNDER THE SUPERVISION OF:  
  
KEVIN G. AGUIUI  
R.C.E. No. 048732, EXP. 9/30/22  
DATE: 12/19/2019  
CIVIL ENGINEER  
STATE OF CALIFORNIA

BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**SIGNING AND STRIPING PLAN**  
FILBERT STREET AT LAFAYETTE STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA  
DATE: DECEMBER 2019  
SCALE: AS NOTED  
DRAWN BY: JTC  
DESIGNED BY: TSW  
CHECKED BY: EKC  
APPROVED BY:   
DATE: 12/19/20  
CITY ENGINEER  
STOCKTON, CALIFORNIA  
PROJECT NO. PW1516  
SHEET NO. SS-1  
SHEET 15 OF 38

5365.14C



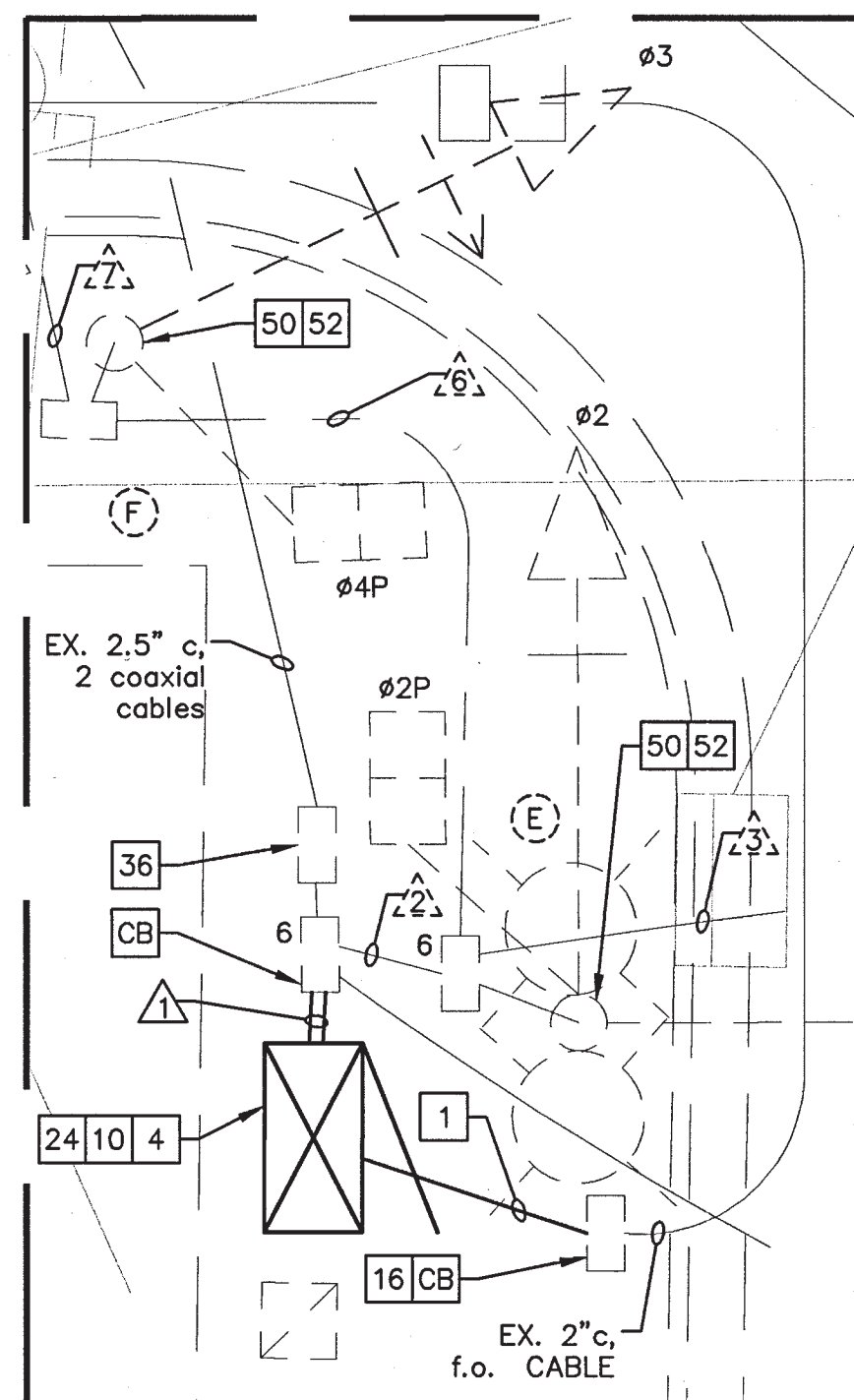


CONDUCTOR SCHEDULE									
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
	WEBER AVE AND CENTER ST	1	2	3	4	5	6	7	8
<b>28-CONDUCTOR CABLES</b>									
POLE A	1	1						1	1
POLE C	1	1	1	1					
POLE E	1	1							
<b>TOTAL 28-CONDUCTOR CABLES</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>				<b>1</b>	<b>1</b>
<b>12-CONDUCTOR CABLES</b>									
POLE B	1	1	1	1	1				
POLE F								1	
<b>TOTAL 12-CONDUCTOR CABLES</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>3-CONDUCTOR CABLES</b>									
POLE A	1	1						1	1
POLE B	1	1	1	1	1				
POLE C	1	1	1	1					
POLE D	1	1							
POLE E	1	1							
POLE F	1	1						1	
<b>TOTAL 3-CONDUCTOR CABLES</b>	<b>6</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>NO. 10 CONDUCTORS</b>									
STREET OUTLETS		3	3	2					
<b>TOTAL NO. 10</b>	<b>3</b>	<b>3</b>	<b>2</b>						
<b>NO. 8 CONDUCTORS</b>									
SERVICE	3								
INTERSECTION LIGHTING		4	3	3	3	3	3	3	3
STREET LIGHTING		4	4	3					
<b>TOTAL NO. 8</b>	<b>3</b>	<b>8</b>	<b>7</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>DETECTOR LEAD-IN CABLES</b>									
Ø2	3								
Ø3	3	3	3	3	3	3			
<b>TOTAL DLC</b>	<b>6</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>			
<b>VIDEO DETECTION</b>									
COAXIAL CABLE	4 <sub>R</sub>	4 <sub>R</sub>	1 <sub>R</sub>	1 <sub>R</sub>			1 <sub>R</sub>	1 <sub>R</sub>	
POWER CABLE	4 <sub>R</sub>	4 <sub>R</sub>	1 <sub>R</sub>	1 <sub>R</sub>			1 <sub>R</sub>	1 <sub>R</sub>	
<b>EVP CABLES</b>									
EVA	1	1							
EVB	1	1	1	1					
EVC									
EVD	1	1					1	1	
<b>TOTAL EVP CABLES</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>1</b>			<b>1</b>	<b>1</b>	
<b>APS CABLE (4C#18)</b>									
PTZ COMMUNICATION CABLE*	2	2	1	1	1	1	1	1	1
<b>PERCENT FILL</b>									
CONDUIT SIZE	2"	2"	3"	4"	4"	3"	3"	3"	3"

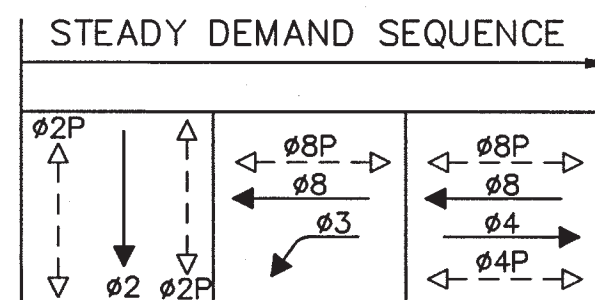
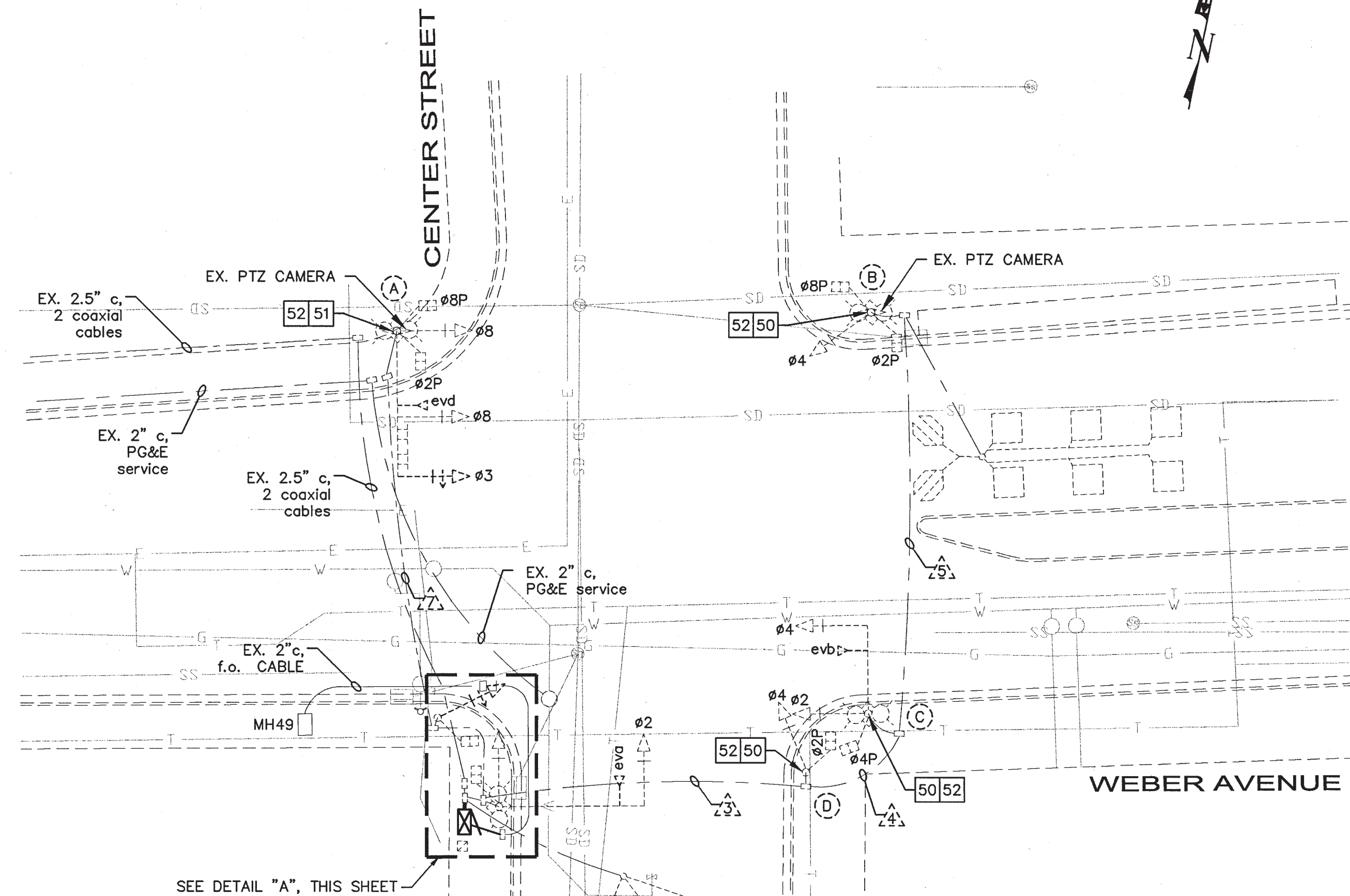
EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR OR CONDUIT  
 R - DENOTES REMOVE UNUSED CONDUCTORS FROM EXISTING CONDUIT  
 \* POWER AND DATA CABLES (PER MANUFACTURER)

**CONSTRUCTION NOTES: (THIS SHEET ONLY)**

- FURNISH AND INSTALL 2.5" RIGID METAL CONDUIT FOR FIBER OPTIC CABLE INTO NEW FOUNDATION PER DETAIL H, SHEET DT-4.
- REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC Ø2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- REMOVE AND SALVAGE EXISTING TYPE M TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. REMOVE AND DISPOSE OF EXISTING FOUNDATION. FURNISH AND INSTALL NEW TYPE P TRAFFIC SIGNAL CONTROLLER CABINET AND FOUNDATION AT LOCATION OF REMOVED CABINET PER DETAIL H, ON SHEET DT-4. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.
- FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- ROUTE EXISTING COAXIAL CABLES, COILED IN PULL BOX, INTO CONTROLLER CABINET AND PROTECT IN PLACE.
- FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM ON FLUTED POLE PER DETAIL K AND DETAIL J ON SHEET DT-5. APS SYSTEM SHALL BE CONNECTED TO THE FLUTED POLE WITHOUT IMPACTING THE DECORATIVE BASE. ADAPTOR PLATE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- FURNISH AND INSTALL TWO (2) ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEMS ON FLUTED POLE PER DETAIL K AND DETAIL J ON SHEET DT-5. APS SYSTEMS SHALL BE CONNECTED TO THE FLUTED POLE WITHOUT IMPACTING THE DECORATIVE BASE. ADAPTOR PLATE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.



**DETAIL "A"**  
SCALE: 1" = 5'

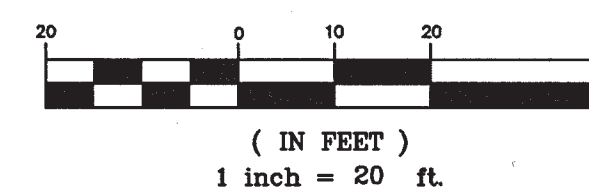


**EXISTING PHASE DIAGRAM (TO REMAIN)**

**EVP ASSIGNMENTS**

- EVA = Ø2
- EVB = Ø4
- EVD = Ø8 + Ø3

**GRAPHIC SCALE**



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
WEBER AVENUE AT CENTER STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: <b>DECEMBER 2019</b>	SCALE: <b>AS NOTED</b>	APPROVED BY: <i>[Signature]</i> DATE: <b>9/30/22</b>	PROJECT NO. <b>PW1516</b>
DRAWN BY: <b>GMS</b>	CHECKED BY: <b>EKC</b>	CITY ENGINEER <b>[Signature]</b> STOCKTON, CALIFORNIA	SHEET NO. <b>TS-1</b>



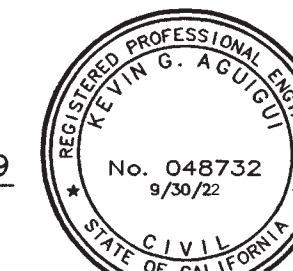
NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**

1300 Clay Street, Suite 325  
Oakland, California 94612  
Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

*[Signature]*  
KEVIN G. AGUIGUI  
R.C.E. No. 048732, EXP. 9/30/22



12/19/2019

DATE

5363.16C

Date: 10/20/19 - 12:25pm - USER: Joseph.murray - Location: BRT V - Root: (S:\\_CAD)\Sheet\17 WEBER AND CENTER.Avg

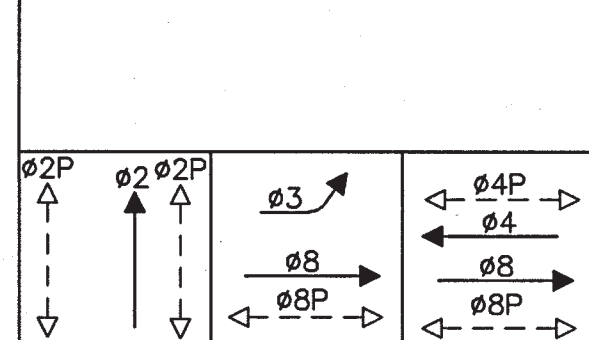
CONDUCTOR SCHEDULE										
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS									
	WEBER AVE AND EL DORADO ST									
	1	2	3	4	5	6	7	8	9	10
<b>28-CONDUCTOR CABLES</b>										
POLE A	1						1	1	1	1
POLE C	1						1	1		
POLE E	1	1								
POLE H	1		1	1						
<b>TOTAL 28-CONDUCTOR CABLES</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>12-CONDUCTOR CABLES</b>										
POLE B										1
POLE D								1		
POLE F		1	1							
POLE G				1						
<b>TOTAL 12-CONDUCTOR CABLES</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>3-CONDUCTOR CABLES</b>										
POLE B	1N						1N	1N	1N	
POLE C	1N						1N	1N		
POLE D	1N						1N			
POLE F	1N	1N								
POLE G	1N		1N							
POLE H	1N			1N	1N					
POLE I	1N					1N	1N	1N	1N	1N
POLE J	1N	1N								
<b>TOTAL 3-CONDUCTOR CABLES</b>	<b>8N</b>	<b>1N</b>	<b>1N</b>	<b>2N</b>	<b>1N</b>	<b>4N</b>	<b>3N</b>	<b>2N</b>	<b>1N</b>	<b>1N</b>
<b>NO. 8 CONDUCTORS SERVICE</b>										
STREET LIGHTING		2	5	2	2	8	2	2	2	2
<b>TOTAL NO. 8</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>DETECTOR LEAD-IN CABLES</b>										
ø2		4								4
ø3		2								
<b>TOTAL DLC</b>	<b>6</b>									
<b>EVP CABLES</b>										
EVA	1N						1N	1N		
EVB	1N						1N	1N	1N	1N
EVD	1N	1N								
<b>TOTAL EVP CABLES</b>	<b>3N</b>	<b>1N</b>	<b>2N</b>	<b>2N</b>	<b>1N</b>	<b>1N</b>	<b>1N</b>	<b>1N</b>	<b>1N</b>	<b>1N</b>
<b>APS CABLE (4C#18)</b>										
PTZ COMMUNICATION CABLE*	1,2R		2N	2N		2N	2N		2N	2N
<b>PERCENT FILL</b>	<b>30</b>	<b>18</b>	<b>46</b>	<b>14</b>	<b>17</b>	<b>34</b>	<b>33</b>	<b>17</b>	<b>8</b>	<b>20</b>
<b>CONDUIT SIZE</b>	<b>2-3"</b>	<b>2"</b>	<b>2"</b>	<b>3"</b>	<b>3"</b>	<b>3"</b>	<b>3"</b>	<b>3"</b>	<b>2"</b>	<b>3"</b>

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR OR CONDUIT  
 R - DENOTES REMOVE UNUSED CONDUCTORS FROM EXISTING CONDUIT  
 \* POWER AND DATA CABLES (PER MANUFACTURER)

**CONSTRUCTION NOTES: (THIS SHEET ONLY)**

- FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- INSTALL CITY-FURNISHED OPTICOM MODEL 768 AUXILIARY PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET.
- REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC ø2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- FURNISH AND INSTALL NEW PEDESTRIAN PUSH BUTTON POST WITH ONE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- REMOVE AND SALVAGE EXISTING EVP DETECTOR UNIT TO CORPORATION YARD. FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON EXISTING MOUNTING. FURNISH AND INSTALL EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN.
- FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM ON FLUTED POLE PER DETAIL K AND DETAIL J ON SHEET DT-5. APS SYSTEM SHALL BE CONNECTED TO THE FLUTED POLE WITHOUT IMPACTING THE DECORATIVE BASE. ADAPTOR PLATE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.
- FURNISH AND INSTALL NEW PUSH BUTTON CONDUCTORS BETWEEN ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) AND CABINET. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- REROUTE EXISTING CONDUCTORS IN NEW CONDUIT PER CONDUCTOR SCHEDULE.
- RELEVEL EXISTING PAVERS AROUND THE PULL BOX.

**STEADY DEMAND SEQUENCE**

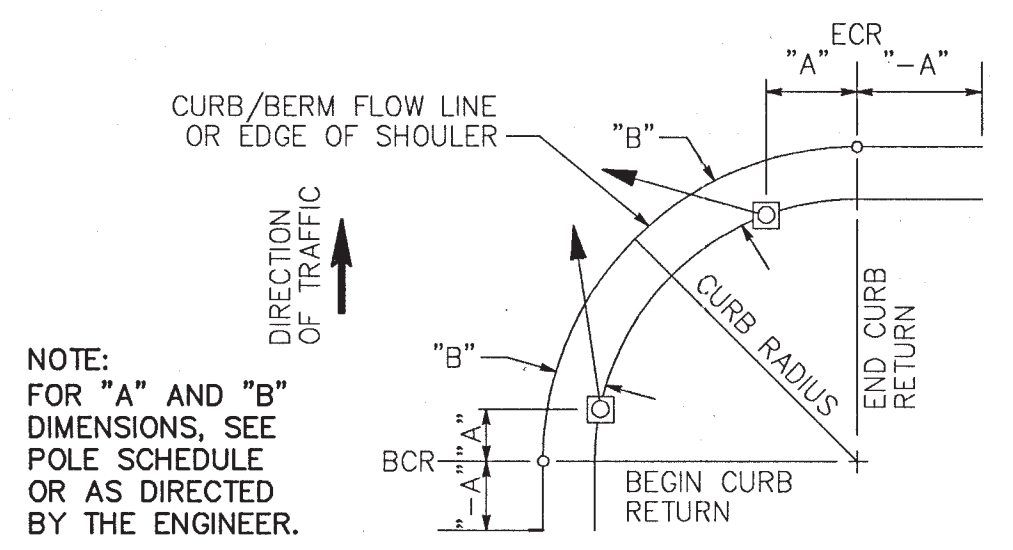


**EXISTING PHASE DIAGRAM (TO REMAIN)**

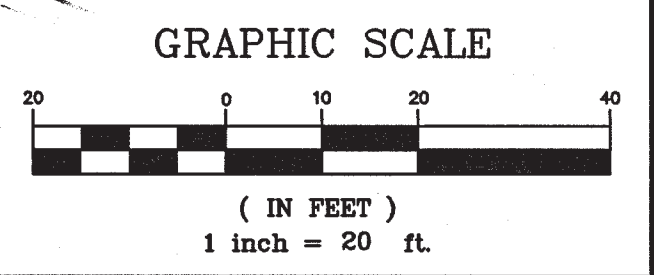
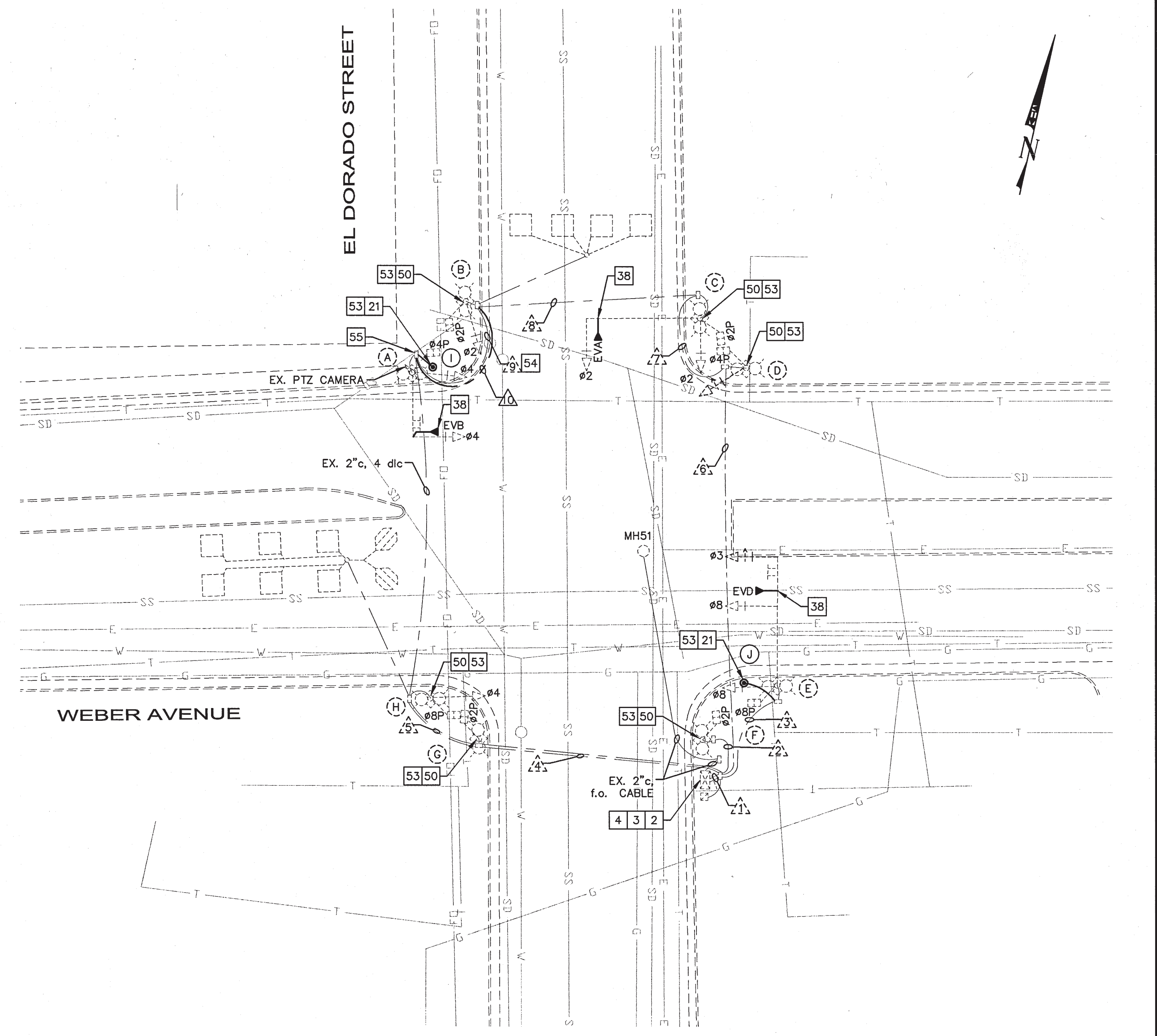
**EVP ASSIGNMENTS**

EVA = ø2  
 EVB = ø4  
 EVD = ø8 + ø3

POLE	TYPE	LOCATION	
		A	B
Ⓚ	PPB POST	-1.6'	4.3'
Ⓝ	PPB POST	1.6'	1.8'



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
 (CALTRANS STANDARD PLAN ES-4C)



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 WEBER AVENUE AT EL DORADO STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 19, 2019  
 SCALE: AS NOTED  
 DRAWN BY: GMS  
 DESIGNED BY: ISW  
 CHECKED BY: EKC

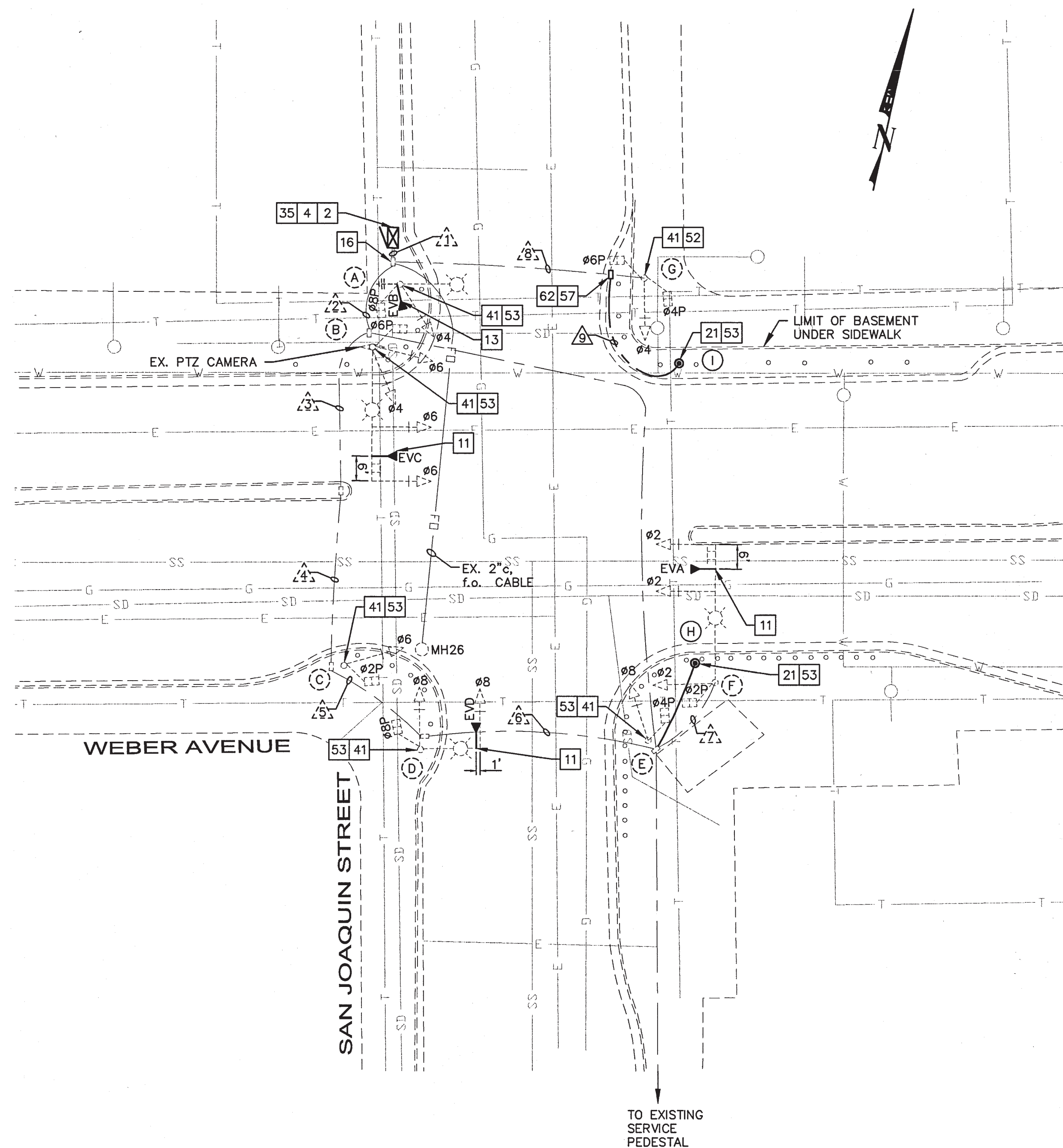
APPROVED BY:   
 DATE: 12/19/2019  
 CITY ENGINEER  
 STOCKTON, CALIFORNIA

PROJECT NO. PW1516  
 SHEET NO. TS-2  
 SHEET 18 OF 38

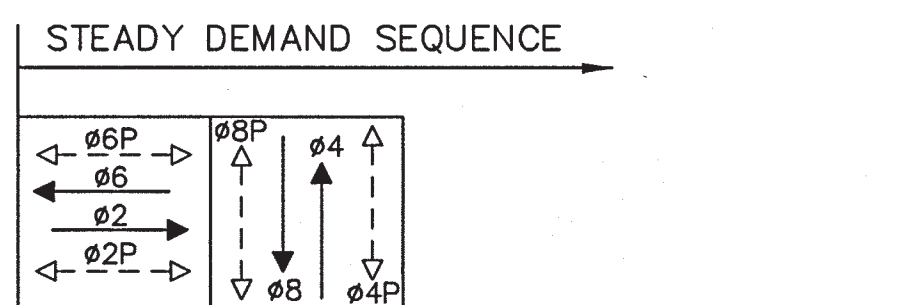
5365.17C

**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC-02 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 13 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON PEDESTRIAN SIGNAL HEAD. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 21 FURNISH AND INSTALL NEW PEDESTRIAN PUSH BUTTON POST WITH ONE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 35 REMOVE AND SALVAGE EXISTING TYPE M TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. FURNISH AND INSTALL NEW TYPE M (TALL) TRAFFIC SIGNAL CONTROLLER CABINET ON EXISTING FOUNDATION. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED. VERIFY THE LOCATION OF ALL EXISTING FIBER OPTIC CABLE AND PROTECT IN PLACE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 41 FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 53 FURNISH AND INSTALL NEW PUSH BUTTON CONDUCTORS BETWEEN ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) AND CABINET. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 57 INSTALL No. 5 TRAFFIC RATED PULL BOX IN EXISTING CONDUIT RUN.
- 62 PULL CONDUCTORS IN CONDUIT  $\Delta_{8}$  BACK TO HOMERUN PULL BOX. REINSTALL CONDUCTORS AFTER INSTALLATION OF NEW PULL BOX.



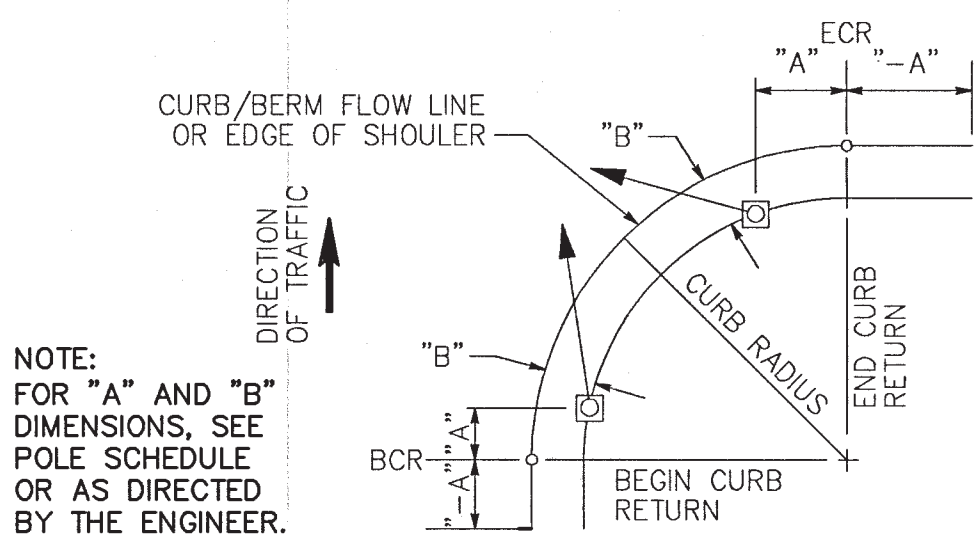
CONDUCTOR SCHEDULE									
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
	WEBER AVE AT SAN JOAQUIN ST								
	1	2	3	4	5	6	7	8	9
<b>NO. 14 CONDUCTORS</b>									
SIGNALS	15	12	9	9	6	6	3	3	
PED	12	8	6	6	6	4	2	4	
Ø2 PPB	2N	2N	2N	2N	2N	1N			
Ø4 PPB	2N	1N	1N	1N	1N	1N	1N	1N	
Ø6 PPB	1N	1N							
Ø8 PPB	2N	2N	1N	1N					
SPARE	6	3	3	3	3	3	3	3	
PEU	2								
<b>TOTAL NO. 14</b>	<b>36</b>	<b>7</b>	<b>23</b>	<b>18</b>	<b>4</b>	<b>18</b>	<b>15</b>	<b>3</b>	<b>13</b>
<b>NO. 10 CONDUCTORS</b>									
SIGNAL COMMON	1	1	1	1	1	1	1	1	1
<b>TOTAL NO. 10</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>NO. 8 CONDUCTORS</b>									
STREET LIGHTING SERVICE			4	4	4	4	4	4	
<b>TOTAL NO. 8</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	
<b>DETECTOR LEAD-IN CABLE</b>									
APS CABLE (4C#18)		2N			2N	2N	1N		
PTZ VIDEO CABLE	1	1							
GPS COMMUNICATION CABLE	1								
FIBER OPTIC CABLE	1								
<b>EVP CABLES**</b>									
EVA	1N	1N	1N	1N	1N	1N	1N		
EVB	1N								
EVC	1N	1N							
EVD	1N	1N	1N	1N	1N				
<b>TOTAL EVP CABLES</b>	<b>4N</b>	<b>3N</b>	<b>2N</b>	<b>2N</b>	<b>2N</b>	<b>1N</b>	<b>1N</b>		
PERCENT FILL	12	12	17	17	17	13	31	15	3
CONDUIT SIZE	2-3"	3"	2.5"	2.5"	2.5"	2.5"	1.5"	1.5"	1.5"



EXISTING PHASE DIAGRAM (TO REMAIN)

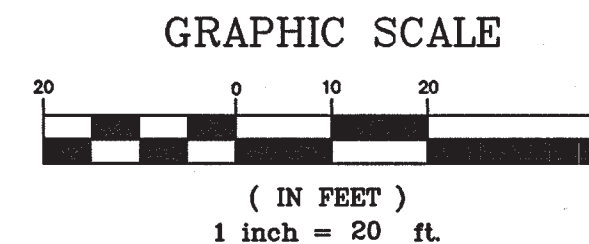
**EVP ASSIGNMENTS**

- EVA = Ø2
- EVB = Ø4
- EVC = Ø6
- EVD = Ø8



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
(CALTRANS STANDARD PLAN ES-4C)

POLE	TYPE	LOCATION	
		A	B
(H)	PPB POST	-3.8'	3.7'
(I)	PPB POST	-1.2'	2.2'



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
WEBER AVENUE AT SAN JOAQUIN STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	SCALE: AS NOTED	APPROVED BY: [Signature]	DATE: 9/30/22	PROJECT NO. PW1516
DRAWN BY: GMS	DESIGNED BY: TSW	CHECKED BY: EKC	CITY ENGINEER	SHEET NO. TS-3
				SHEET 19 OF 36

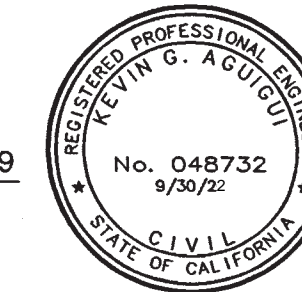


NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
1300 Clay Street, Suite 325  
Oakland, California 94612  
Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

[Signature]  
KEVIN G. AGUIGUI  
R.C.E. No. 048732, EXP. 9/30/22



12/19/2019

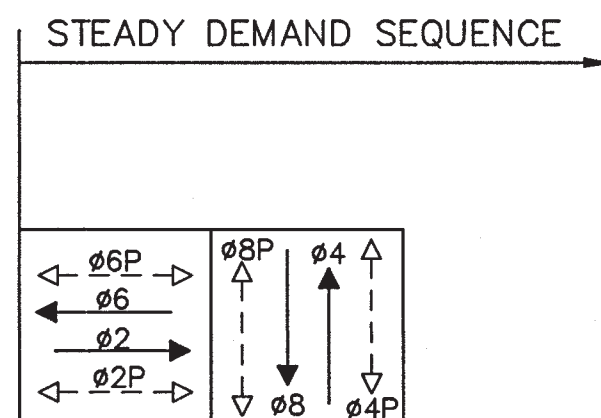
5365.18C

**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 3] INSTALL CITY-FURNISHED OPTICOM MODEL 768 AUXILIARY PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4] REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC-6X2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 21] FURNISH AND INSTALL NEW PEDESTRIAN PUSH BUTTON POST WITH ONE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 41] FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 52] CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 57] INSTALL No. 5 TRAFFIC RATED PULL BOX IN EXISTING CONDUIT RUN.
- 59] FURNISH AND INSTALL NEW PUSH BUTTON CONDUCTORS BETWEEN ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM AND NEAREST PULL BOX. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 63] PULL CONDUCTORS IN CONDUIT  $\Delta$  BACK TO PULL BOX IN MEDIAN. REINSTALL CONDUCTORS AFTER INSTALLATION OF NEW PULL BOX.
- 65] CONNECT NEW PUSH BUTTON CONDUCTORS FOR PUSH BUTTON POST TO EXISTING PUSH BUTTON CONDUCTORS IN THE PULL BOX.

CONDUCTOR SCHEDULE											
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS										
	WEBER AVE AT SUTTER ST										
	1	2	3	4	5	6	7	8	9	10	11
NO. 14 CONDUCTORS											
SIGNALS	15	15	9	9	3	3	3		6	6	3
PED	12	12	8	6	6	4	4		4	4	2
PPB	4	4	2	2	2	2	2		2 <sub>N</sub>	2	2
SPARE	6	6	3	3	3	3	3		3	3	3
PEU	2	2									
TOTAL NO. 14	39	39	22	20	14	9 <sub>3</sub>	12		2 <sub>N</sub>	15	10
NO. 10 CONDUCTORS											
ROADWAY LIGHTING			2	2	2	2			2	2	2
TOTAL NO. 10			2	2	2	2			2	2	2
NO. 8 CONDUCTORS											
SERVICE	2	2	2	2							
SIGNAL COMMON	1	1	1	1	1	1	1		1	1	1
TOTAL NO. 8	3	3	3	3	1	1	1		1	1	1
DETECTOR LEAD-IN CABLE											
APS CABLE (4C#18)			2 <sub>N</sub>	2 <sub>N</sub>			1 <sub>N</sub>		2 <sub>N</sub>		
PTZ VIDEO CABLE	1	1							1	1	1
GPS COMMUNICATION CABLE	1	1									
FIBER OPTIC CABLE											
EVP CABLES**											
EVA	1	1	1	1	1	1					
EVB	1	1	1	1	1	1					
EVC	1	1									
EVD	1	1							1	1	1
TOTAL EVP CABLES	4	4	2	2	1	1			1	1	1
PERCENT FILL	16	32	18	16	11	9	10	4	13	13	12
CONDUIT SIZE	2-2.5"	2.5"	2.5"	2.5"	2.5"	2.5"	2"	1.5"	2.5"	2.5"	2.5"

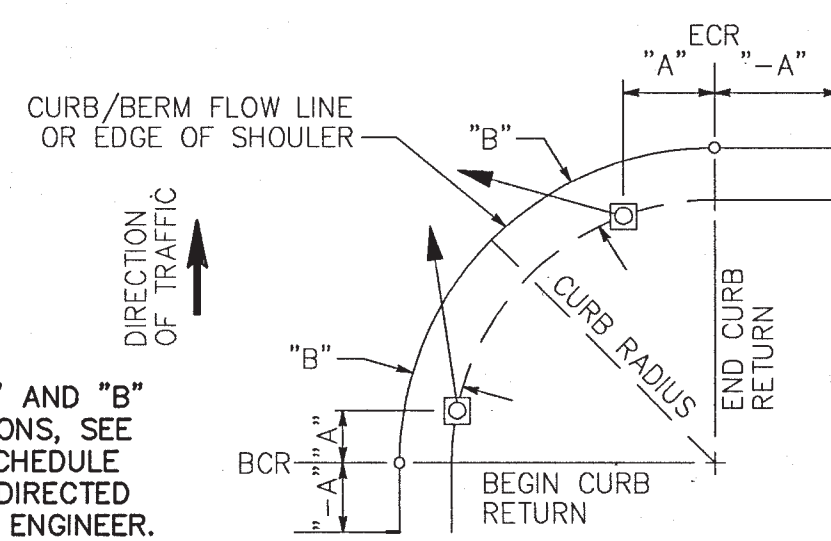
EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR OR CONDUIT  
 \* POWER AND DATA CABLES (PER MANUFACTURER)  
 \*\* OPTICOM GTT MODEL 138 CABLE



**EXISTING PHASE DIAGRAM (TO REMAIN)**

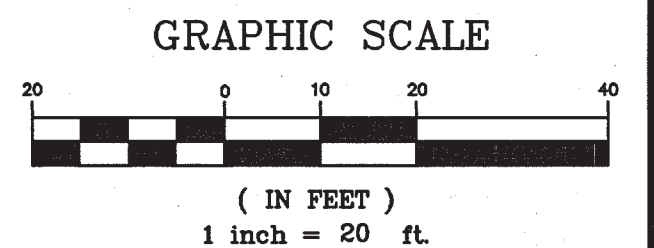
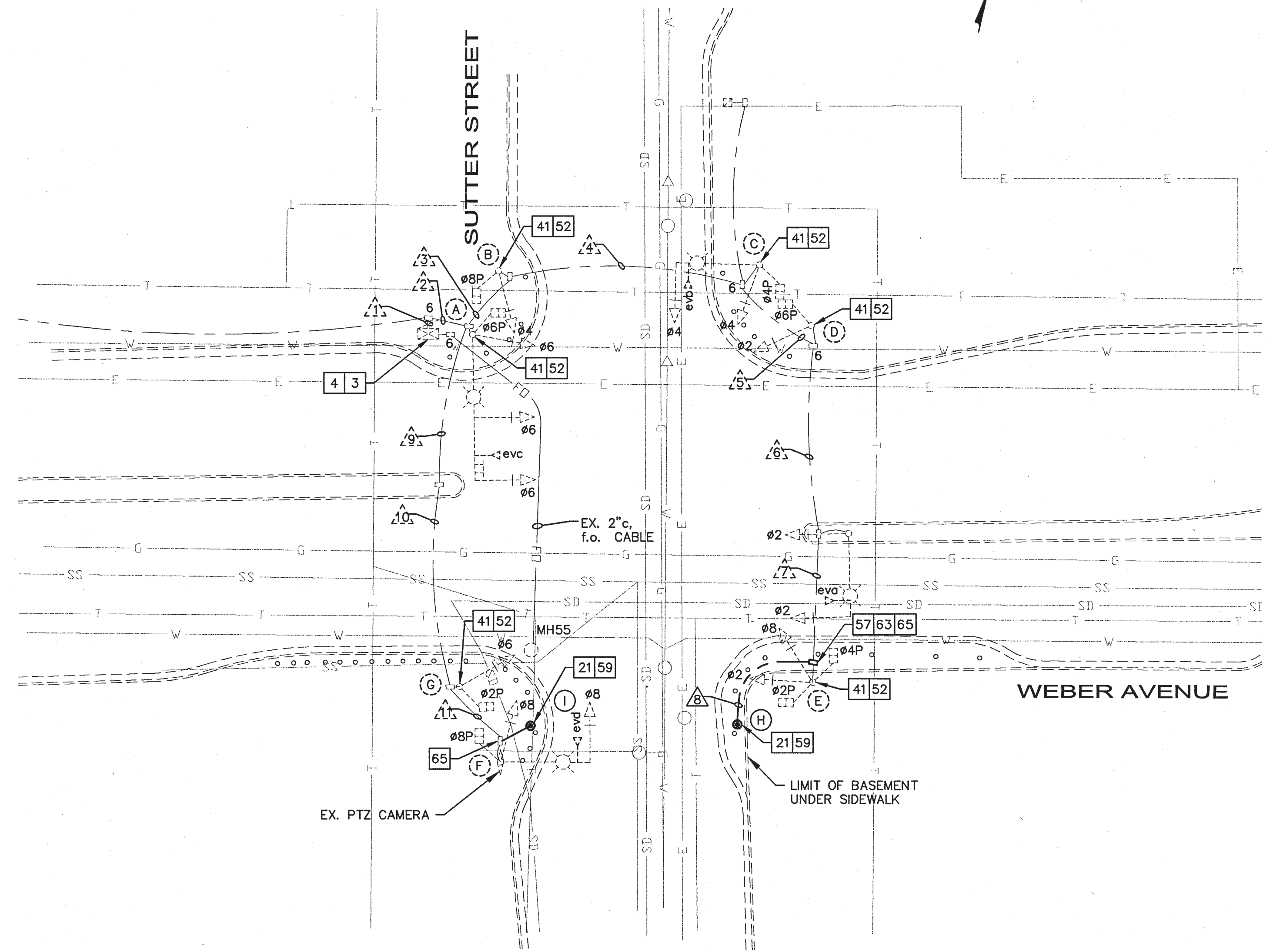
**EVP ASSIGNMENTS**

- EVA = #2
- EVB = #4
- EVC = #6
- EVD = #8



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
 (CALTRANS STANDARD PLAN ES-4C)

POLE	TYPE	LOCATION	
		A	B
(H)	PPB POST	-4.9'	3.5'
(I)	PPB POST	5.7'	3.6'



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 WEBER AVENUE AT SUTTER STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: [Signature]	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 3/31/22	SHEET NO. TS-4
DRAWN BY: GMS	CITY ENGINEER	SHEET 20 OF 38
DESIGNED BY: ISW	STOCKTON, CALIFORNIA	
CHECKED BY: EKC		

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**

1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

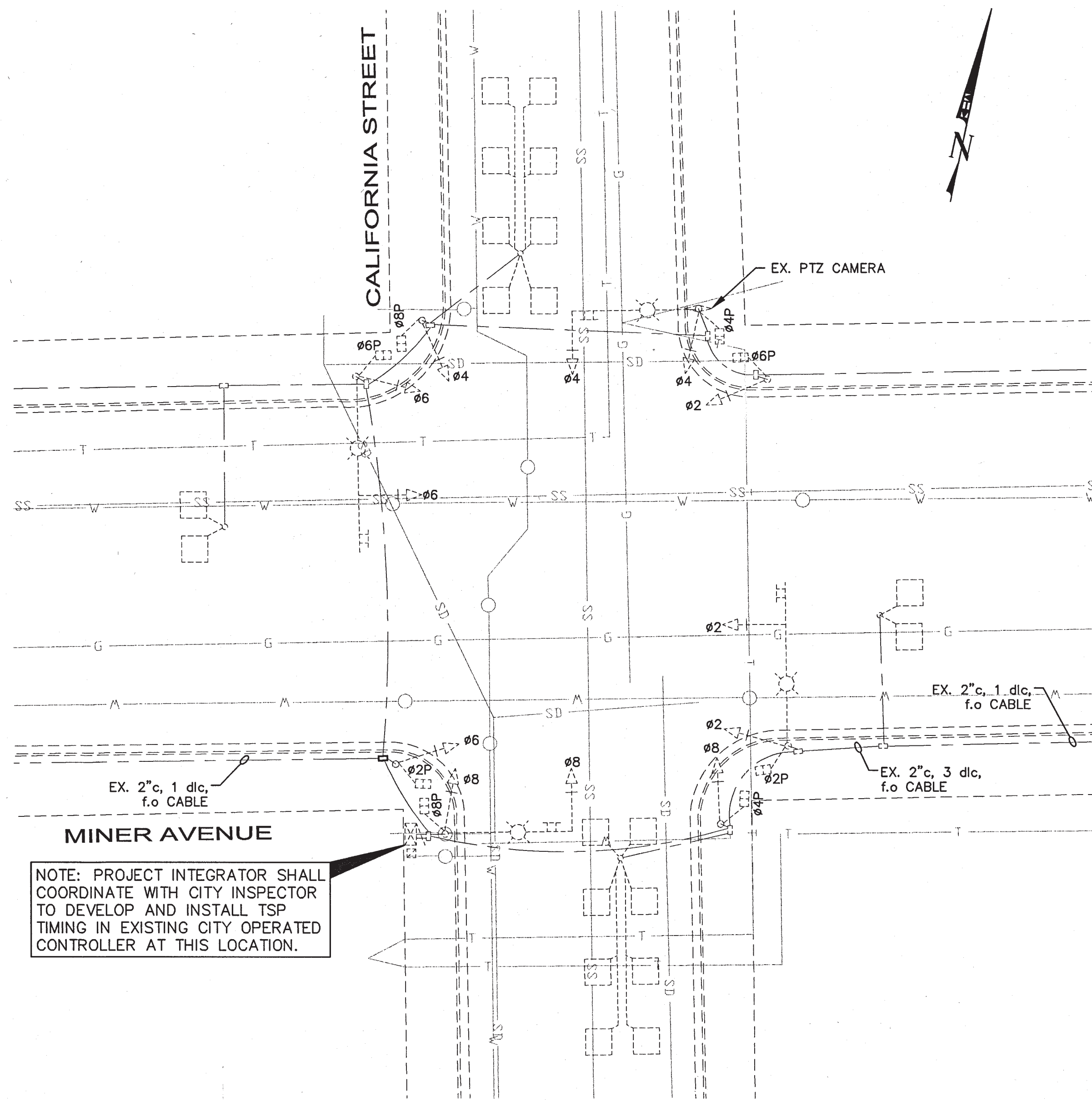
DESIGNED UNDER THE SUPERVISION OF:

[Signature]  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22



Dec 16, 2019 - 12:22pm - USER: Joseph.arnop  
 K:\CADD\15\07202017 - Stockton BRT V - Road\04\_CADD\Sheets\15 WEBER AVENUE AT SUTTER STREET.dwg

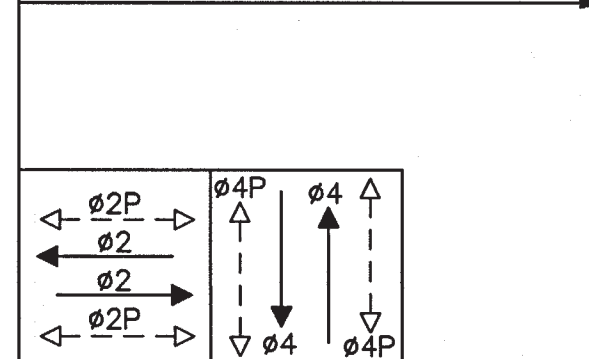
5365.19C



**MINER AVENUE AT CALIFORNIA STREET**

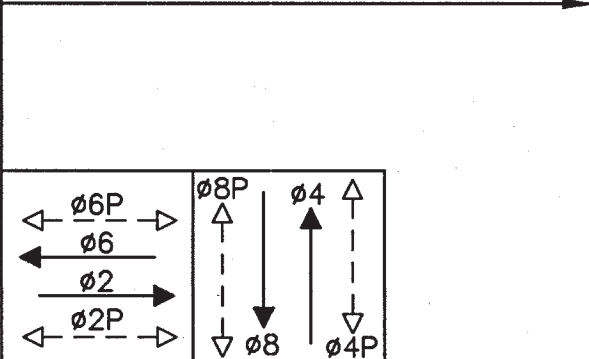
NOTE: PROJECT INTEGRATOR SHALL COORDINATE WITH CITY INSPECTOR TO DEVELOP AND INSTALL TSP TIMING IN EXISTING CITY OPERATED CONTROLLER AT THIS LOCATION.

**STEADY DEMAND SEQUENCE**



**EXISTING PHASE DIAGRAM**

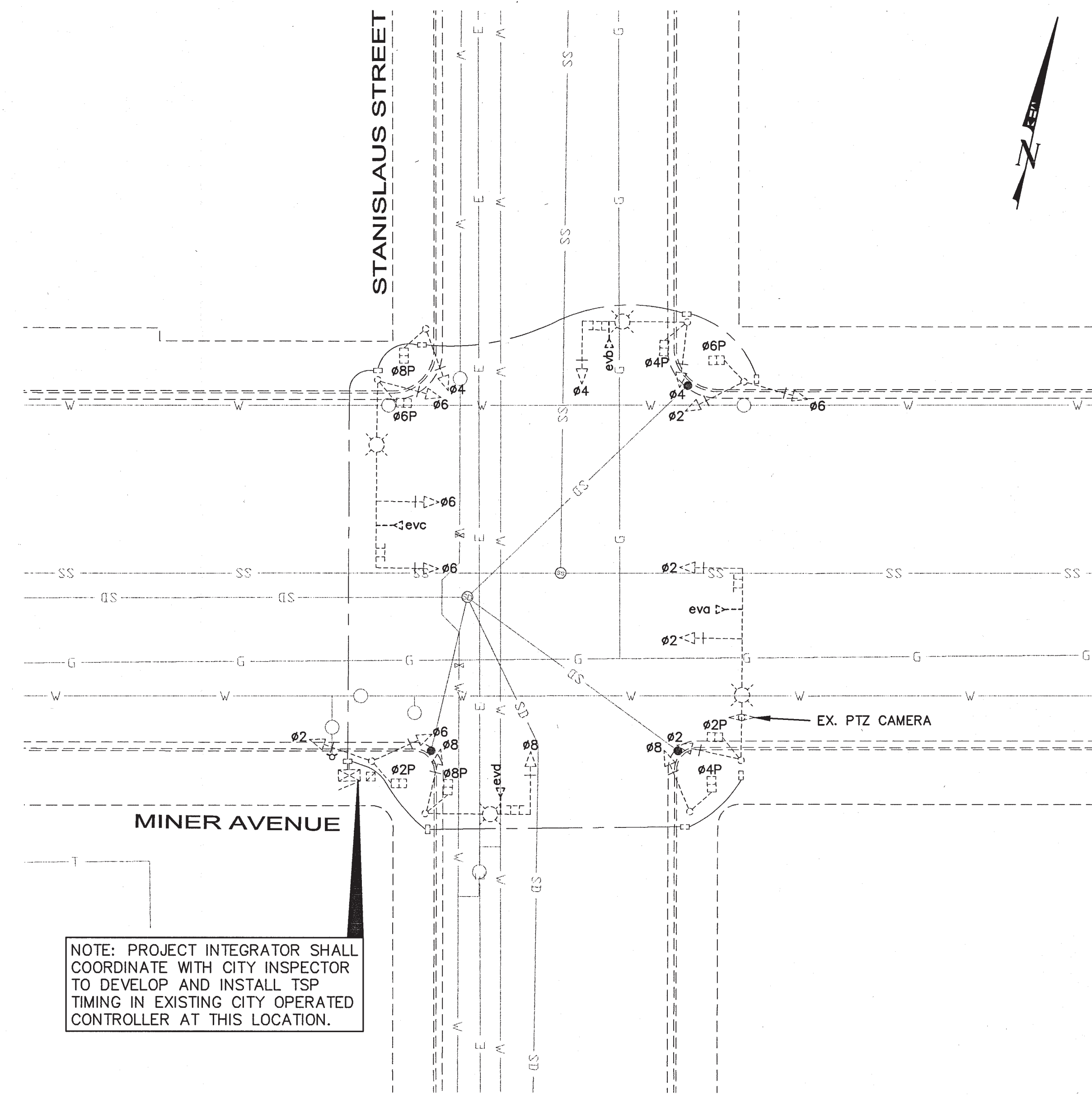
**STEADY DEMAND SEQUENCE**



**PROPOSED PHASE DIAGRAM**

**EVP ASSIGNMENTS**

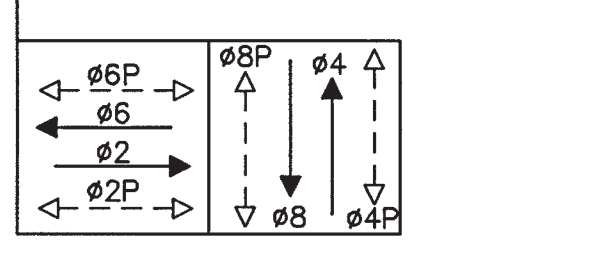
- EVA = Ø2
- EVB = Ø4
- EVC = Ø6
- EVD = Ø8



**MINER AVENUE AT STANISLAUS STREET**

NOTE: PROJECT INTEGRATOR SHALL COORDINATE WITH CITY INSPECTOR TO DEVELOP AND INSTALL TSP TIMING IN EXISTING CITY OPERATED CONTROLLER AT THIS LOCATION.

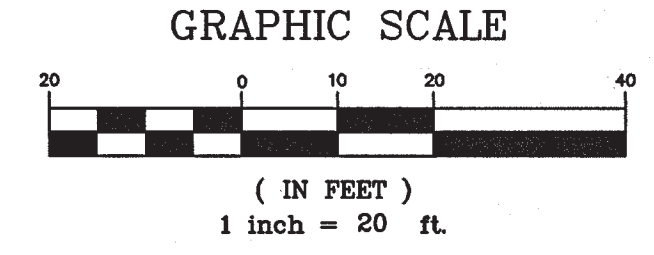
**STEADY DEMAND SEQUENCE**



**EXISTING PHASE DIAGRAM**

**EVP ASSIGNMENTS**

- EVA = Ø2
- EVB = Ø4
- EVC = Ø6
- EVD = Ø8



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIQUI  
 R.C.E. No. 048732, EXP. 9/30/22



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**

MINER AVENUE AT CALIFORNIA STREET & MINER AVENUE AT STANISLAUS STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY:	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 3/3/20	SHEET NO. TS-5
DRAWN BY: GMS	CITY ENGINEER STOCKTON, CALIFORNIA	SHEET 21 OF 38
DESIGNED BY: ISW		
CHECKED BY: EKC		

5365.20C

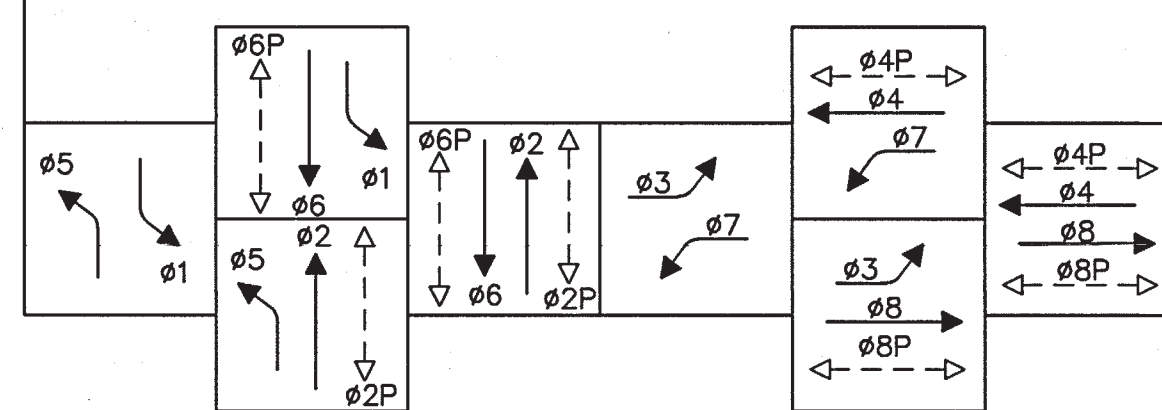
**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 3] INSTALL CITY-FURNISHED OPTICOM MODEL 768 AUXILIARY PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 24] FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 28] REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29] REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 32] REMOVE EXISTING AUDIBLE PEDESTRIAN SIGNAL FROM PEDESTRIAN SIGNAL HEAD. AUDIBLE PEDESTRIAN SIGNAL TO BECOME PROPERTY OF CONTRACTOR. SEAL HOLE IN PEDESTRIAN SIGNAL HEAD WITH WATERTIGHT GROMMET.
- 49] REMOVE AND SALVAGE EXISTING PTZ CAMERA AND POWER CABLE. FURNISH AND INSTALL NEW IP PTZ CAMERA ON SIGNAL POLE. SEE DETAIL C, ON SHEET DT-2, FOR MOUNTING DETAILS. FURNISH AND INSTALL NEW CAT5 CABLE TO TRAFFIC SIGNAL CABINET.
- 52] CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.

CONDUCTOR SCHEDULE									
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
	MINER AVE AT AIRPORT WAY								
	1	2	3	4	5	6	7	8	9
<b>NO. 14 CONDUCTORS</b>									
SIGNALS	24	24	21	21	15	15	9	9	3
PED	8	8	8	8	8	6	6	4	2
PPB	4	4	4	4	3	3	2	2	1
PEU		3							
SPARE	3	3	3	3	3	3	3	3	3
<b>TOTAL NO. 14</b>	<b>39</b>	<b>42</b>	<b>36</b>	<b>36</b>	<b>29</b>	<b>27</b>	<b>20</b>	<b>18</b>	<b>9</b>
<b>NO. 12 CONDUCTORS</b>									
PPB COMMON	1	1	1	1	1	1	1	1	1
<b>TOTAL NO. 12</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>NO. 8 CONDUCTORS</b>									
SERVICE	3								
LUMINAIRE	2	2	2	2	2	2	2	2	
SIGNAL COMMON	1	1	1	1	1	1	1	1	1
<b>TOTAL NO. 8</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>
DETECTOR LEAD-IN CABLE	15	15	15	13	11	7	7	5	3
PTZ VIDEO CABLE	R	R	R	R	R	R	R	R	R
GPS COMMUNICATION CABLE	1	1							
FIBER OPTIC CABLE	1								
<b>EVP CABLES</b>									
EVA	1	1	1	1					
EVB	1	1							
EVC	1	1	1	1	1	1	1	1	1
EVD	1	1	1	1	1	1			
<b>TOTAL EVP CABLES</b>	<b>4</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	
APS CABLE (4C#18)			2N	2N	2N	2N			
PERCENT FILL	11	19	16	19	25	28	26	33	30
CONDUIT SIZE	2-4"	4"	2-3"	3"	3"	2.5"	2.5"	2"	1.5"

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 R - DENOTES REMOVE UNUSED CONDUCTORS FROM EXISTING CONDUIT

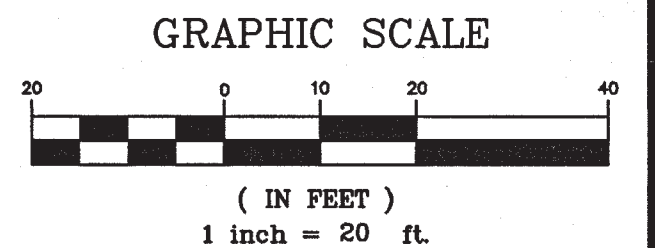
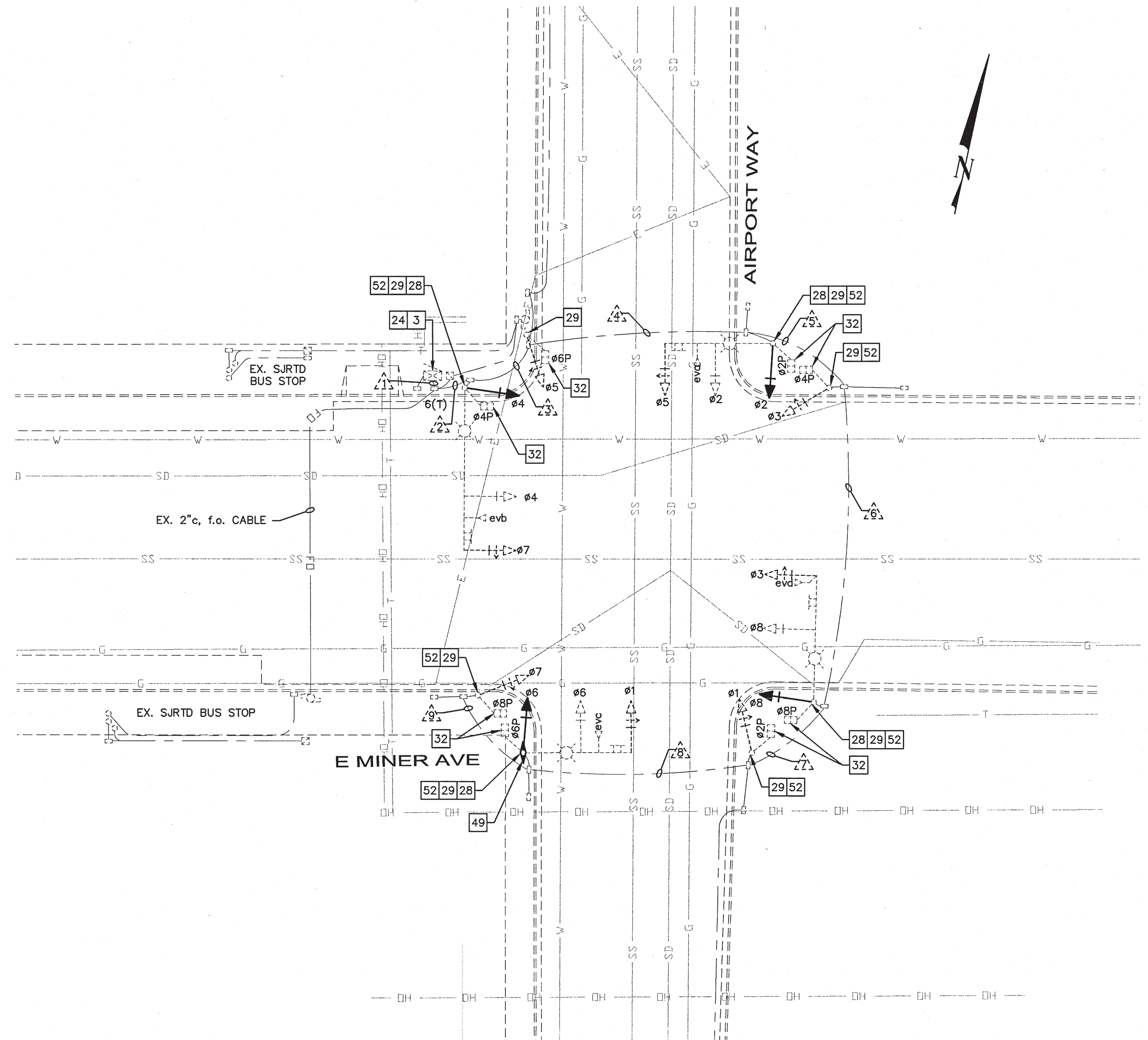
**STEADY DEMAND SEQUENCE**



**EXISTING PHASE DIAGRAM (TO REMAIN)**

**EVP ASSIGNMENTS**

- EVA = phi 2 + phi 5
- EVB = phi 4 + phi 7
- EVC = phi 6 + phi 1
- EVD = phi 8 + phi 3



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712  
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DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 MINER AVENUE AT AIRPORT WAY

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	SCALE: AS NOTED	APPROVED BY:	DATE: 12/31/2019	PROJECT NO. PW1516
DRAWN BY: RMS	DESIGNED BY: ISW	CHECKED BY: EKC	CITY ENGINEER STOCKTON, CALIFORNIA	SHEET NO. TS-6
				SHEET 22 OF 36

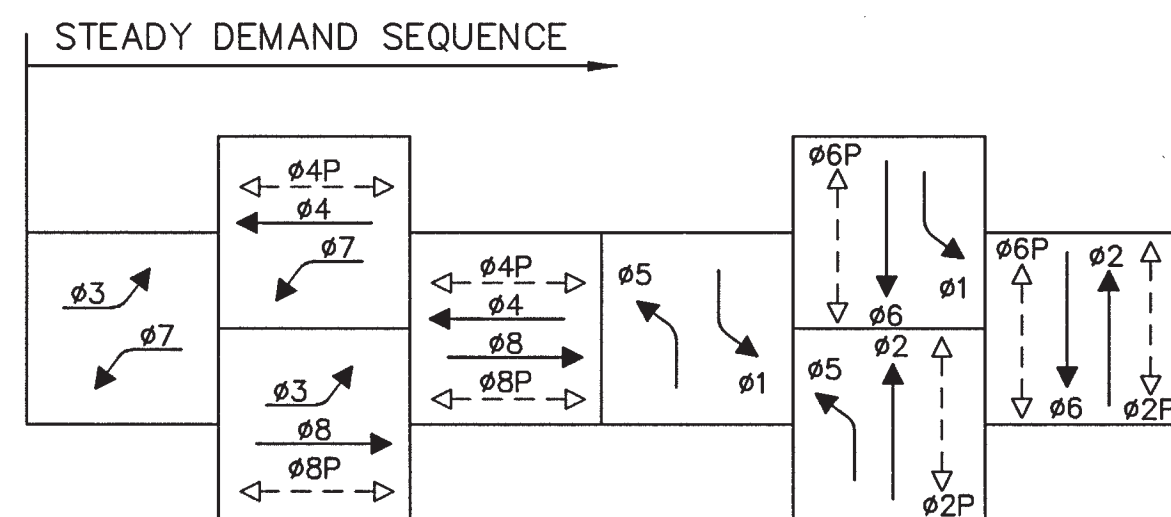
5365.21C

**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC ex2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 15 REMOVE AND DISPOSE OF EXISTING TYPE III SERVICE CABINET. INSTALL NEW TYPE III SERVICE CABINET ON EXISTING FOUNDATION. CONTACT CITY MAINTENANCE FOR DISCONNECT AND RECONNECT.
- 17 REMOVE EXISTING 8" SIGNAL HEADS AND TV-2-T MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW TV-2-T MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.

CONDUCTOR SCHEDULE												
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS											
	MINER AVE AT WILSON WAY											
	1	2	3	4	5	6	7	8	9	10	11	12
<b>NO. 14 CONDUCTORS</b>												
Ø1	3	3	3	3		3						
Ø2	6	3	3	3		6	3					
Ø3	6	3	3	3	3	6	3	3				
Ø4	3					3	3	3				
Ø5	3					3	3					
Ø6	3	3	3			3						
Ø7	3	3				3						
Ø8	3	3	3	3	3	3						
Ø2P	4	2	2	2		4	2					
Ø4P	4					4	2	2				
Ø6P	2	1				2						
Ø8P	2	2	2	2	2	2						
Ø2 PPB	2	1	1	1	1	2	1	1				
Ø4 PPB	2					2	1					
Ø6 PPB	2	1				2						
Ø8 PPB	2	2	2	1	2							
PPB COMMON	2	1	1	1	1	2	1	1				
SPARES	6	3	3	3	3	6	3	3				
PEU												
<b>TOTAL NO. 14</b>	<b>60</b>	<b>32</b>	<b>28</b>	<b>22</b>	<b>13</b>	<b>63</b>	<b>22</b>	<b>13</b>				
<b>NO. 10 CONDUCTORS</b>												
LIGHTING (240V)	2	2	2	2	2	2	2	2				
SIGNAL NEUTRAL	1	1	1	1	1	1	1	1				
<b>TOTAL NO. 10</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>				
<b>DETECTOR LEAD-IN CABLES</b>												
Ø1	1					1						
Ø2	1	1	1	1	1	1						
Ø3	1											
Ø4	1					1	1	1				
Ø5	1	1	1	1	1	1						
Ø6	1					1						
Ø7	1					1	1	1				
Ø8	2	2				2						
<b>TOTAL DLC</b>	<b>9</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>8</b>	<b>2</b>	<b>2</b>				
<b>EVP CABLES</b>												
EVA	1					1		1				
EVB	1											
EVC	1								1	1		
EVD	1					1	1	1		1		
<b>TOTAL EVP CABLES</b>	<b>4</b>					<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>INSYNC CAMERA CABLES*</b>												
INSYNC Ø2, Ø5	1					1	1					
INSYNC Ø4, Ø7	1											
INSYNC Ø6, Ø1	1	1	1									
INSYNC Ø8, Ø3	1	1	1	1	1							
APS CABLE (4C#18)						2N	2N	2N		2N		
PTZ COMMUNICATION CABLE*	1											
TELEPHONE SERVICE CABLE	1					1						
<b>PERCENT FILL</b>	<b>20</b>	<b>22</b>	<b>19</b>	<b>15</b>	<b>20</b>	<b>18</b>	<b>15</b>	<b>20</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>
<b>CONDUIT SIZE</b>	<b>2-3"</b>	<b>2.5"</b>	<b>2.5"</b>	<b>2.5"</b>	<b>2"</b>	<b>2-3"</b>	<b>2.5"</b>	<b>2"</b>	<b>3"</b>	<b>3"</b>	<b>3"</b>	<b>3"</b>

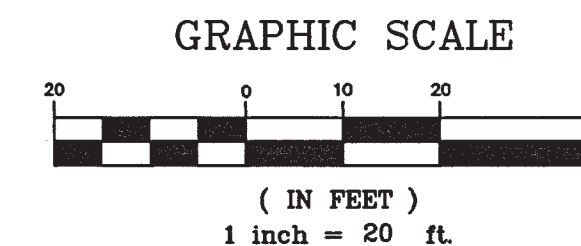
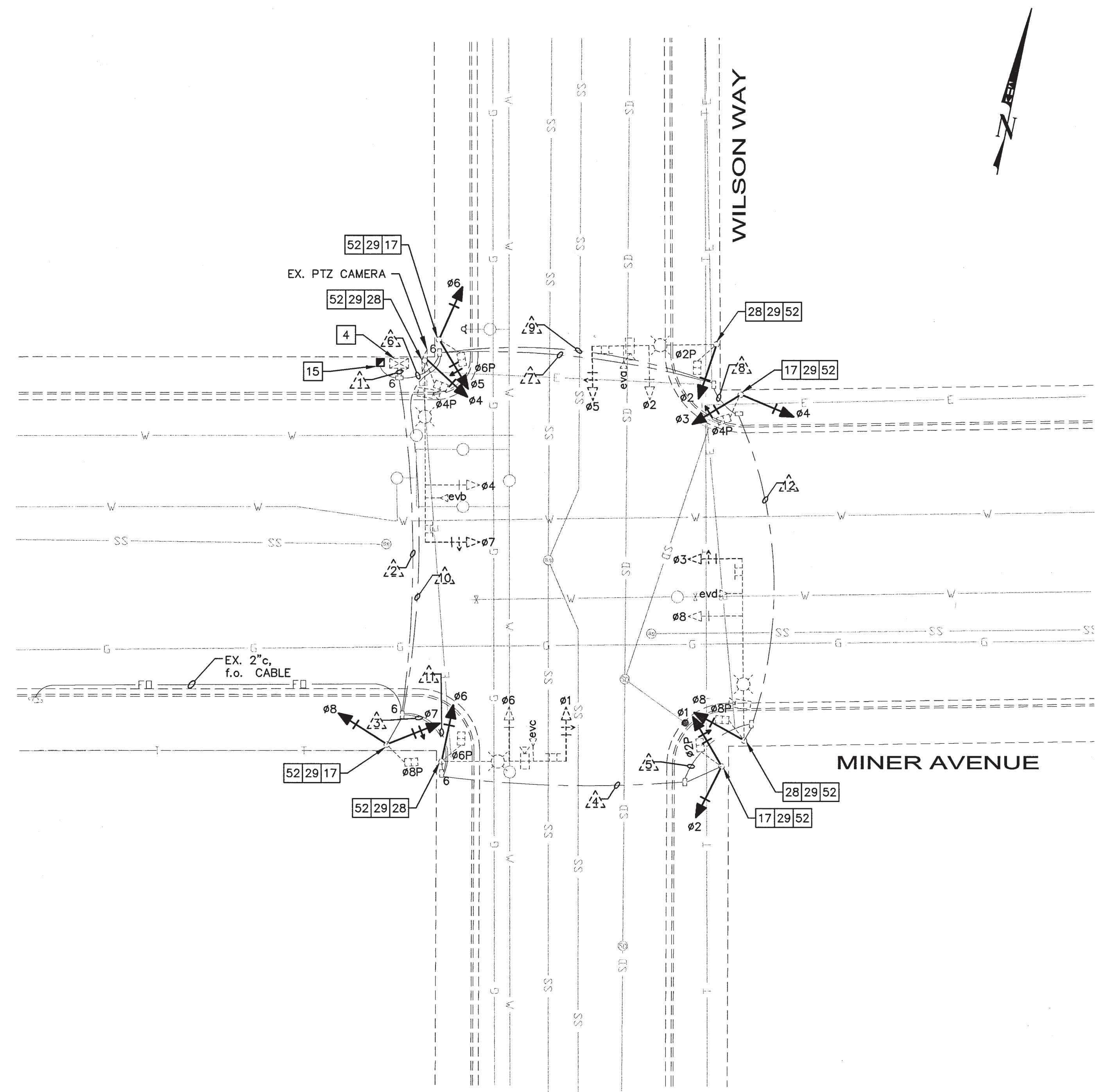
EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 \* POWER AND DATA CABLES (PER MANUFACTURER)



EXISTING PHASE DIAGRAM (TO REMAIN)

**EVP ASSIGNMENTS**

- EVA = Ø2 + Ø5
- EVB = Ø4 + Ø7
- EVC = Ø6 + Ø1
- EVD = Ø8 + Ø3



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**

1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

*[Signature]*  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22

12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 MINER AVENUE AT WILSON WAY

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: <i>[Signature]</i>	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 12/19/2019	SHEET NO. TS-7
DRAWN BY: GMS	CITY ENGINEER: <i>[Signature]</i>	SHEET 23 OF 38
DESIGNED BY: ISW	CHECKED BY: EKC	

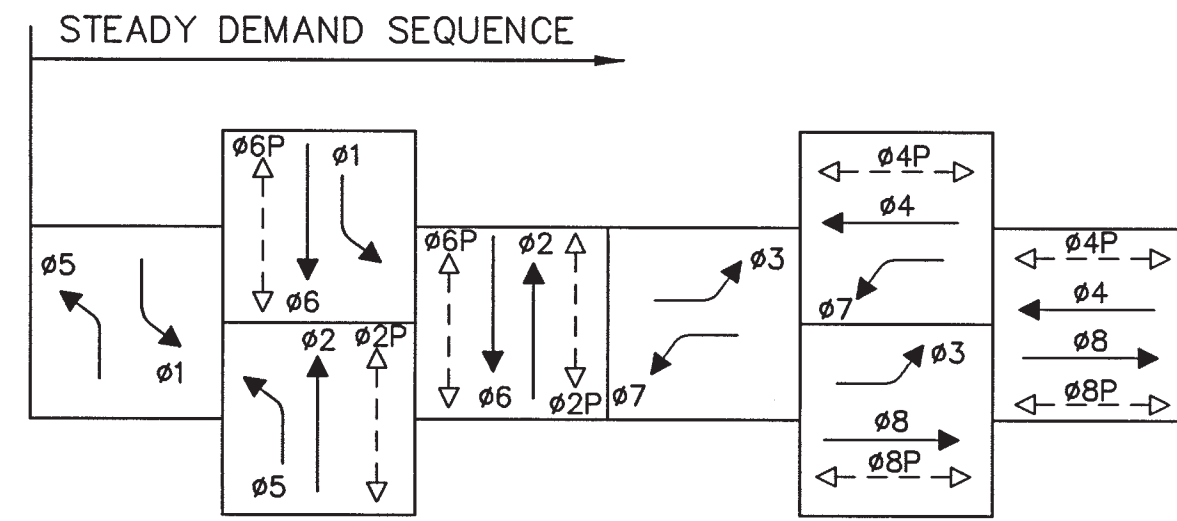
5365-22C

**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

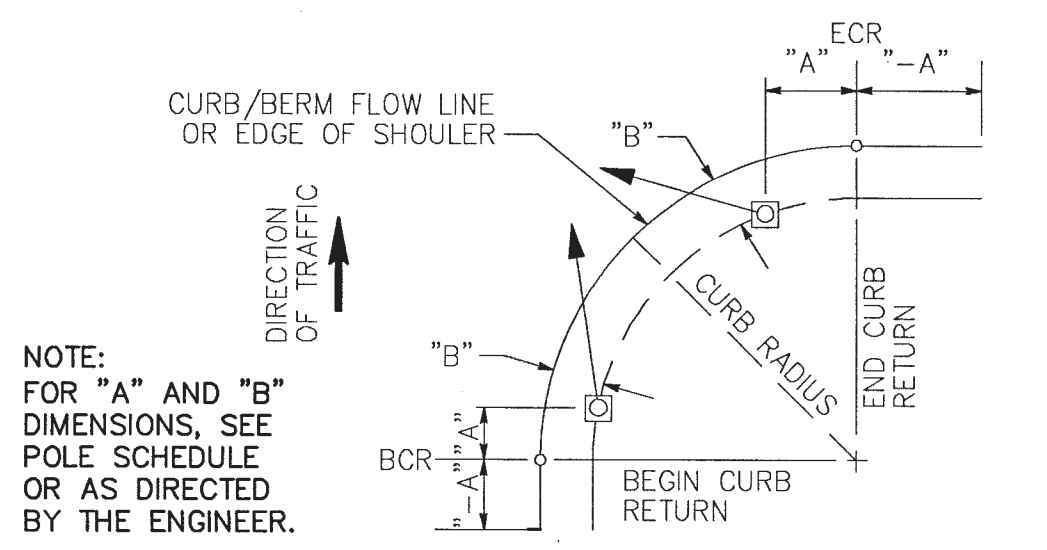
- 3 INSTALL CITY-FURNISHED OPTICOM MODEL 768 AUXILIARY PANEL IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC ex2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 6 REMOVE AND SALVAGE EXISTING PUSH BUTTON POST. FURNISH AND INSTALL 4" DIAMETER PEDESTRIAN PUSH BUTTON POST ON EXISTING FOUNDATION WITH TWO (2) ACCESSIBLE PEDESTRIAN SIGNAL SYSTEMS.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 32 REMOVE EXISTING AUDIBLE PEDESTRIAN SIGNAL FROM PEDESTRIAN SIGNAL HEAD. AUDIBLE PEDESTRIAN SIGNAL TO BECOME PROPERTY OF CONTRACTOR. SEAL HOLE IN PEDESTRIAN SIGNAL HEAD WITH WATERTIGHT GROMMET.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.

CONDUCTOR SCHEDULE		NUMBER OF CONDUCTORS								
CONDUCTOR DESIGNATION		WILSON WAY AT FREMONT STREET								
		1	2	3	4	5	6	7	8	
<b>NO. 14 CONDUCTORS</b>										
Ø1 SIGNALS		3	3	6	3					6
Ø2 SIGNALS			3	3						3
Ø3 SIGNALS										
Ø4 SIGNALS		3	3	6	3	3	3	3	3	6
Ø5 SIGNALS			3	3						3
Ø6 SIGNALS				3	3					3
Ø7 SIGNALS										
Ø8 SIGNALS				3						3
Ø2P PED		2	2							2
Ø4P PED		2	2	2	2	2	2	2	2	2
Ø6P PED				2	2					2
Ø8P PED										
Ø2P PPB		1	1	1			1	1	1	1
Ø4P PPB		1	1	2	1					2
Ø6P PPB					1	1				1
Ø8P PPB										
PPB NEUTRAL		1	1	1	1	1	1	1	1	1
SPARES		3	3	6	3	3	3	3	3	6
<b>TOTAL NO. 14</b>		<b>16</b>	<b>22</b>	<b>39</b>	<b>19</b>	<b>10</b>	<b>9</b>	<b>10</b>	<b>10</b>	<b>39</b>
<b>NO. 10 CONDUCTORS</b>										
STREET LIGHTING		2			2		2			
SIGNAL NEUTRAL		1	1	1	1	1	1	1	1	1
<b>TOTAL NO. 10</b>		<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>3</b>	<b>3</b>
<b>NO. 8 CONDUCTORS</b>										
STREET LIGHTING		2	2							2
<b>TOTAL NO. 8</b>		<b>2</b>	<b>2</b>							<b>2</b>
<b>DETECTOR LEAD-IN CABLE</b>										
Ø2 SAMPLER			2	2						2
Ø6 SAMPLER				2	2					2
<b>TOTAL DLC</b>		<b>2</b>	<b>6</b>	<b>12</b>	<b>4</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>12</b>
<b>INSYNC CAMERA CABLES***</b>										
INSYNC Ø2, Ø5			1	1						1
INSYNC Ø4, Ø7		1	1	1						1
INSYNC Ø6, Ø1				1	1					1
INSYNC Ø8, Ø3										1
<b>APS CABLE (4C#18)</b>										
EVP CABLES**		1	2	3	1		1	1	1	4
FIBER OPTIC CABLE										1
PTZ VIDEO CABLE*				1	1					1
<b>PERCENT FILL</b>		<b>16</b>	<b>21</b>	<b>39</b>	<b>16</b>	<b>9</b>	<b>13</b>	<b>10</b>	<b>22</b>	<b>22</b>
<b>CONDUIT SIZE</b>		<b>2.5"</b>	<b>3"</b>	<b>3"</b>	<b>3"</b>	<b>2.5"</b>	<b>2"</b>	<b>2.5"</b>	<b>2-3"</b>	<b>3"</b>

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 \* POWER CABLE (4#14) (BICC TYPE TC600V), BELDON 8281 VIDEO COAXIAL CABLE, DATA CONTROL CABLE (3#16)  
 \*\* OPTICOM GTT MODEL 138 CABLE  
 \*\*\* 3#14 (IP CAMERA POWER), 1-CAT5E (IP CAMERA COMM)

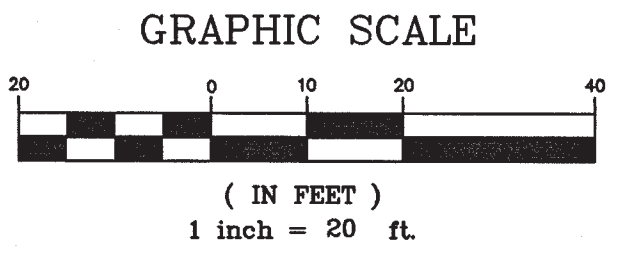
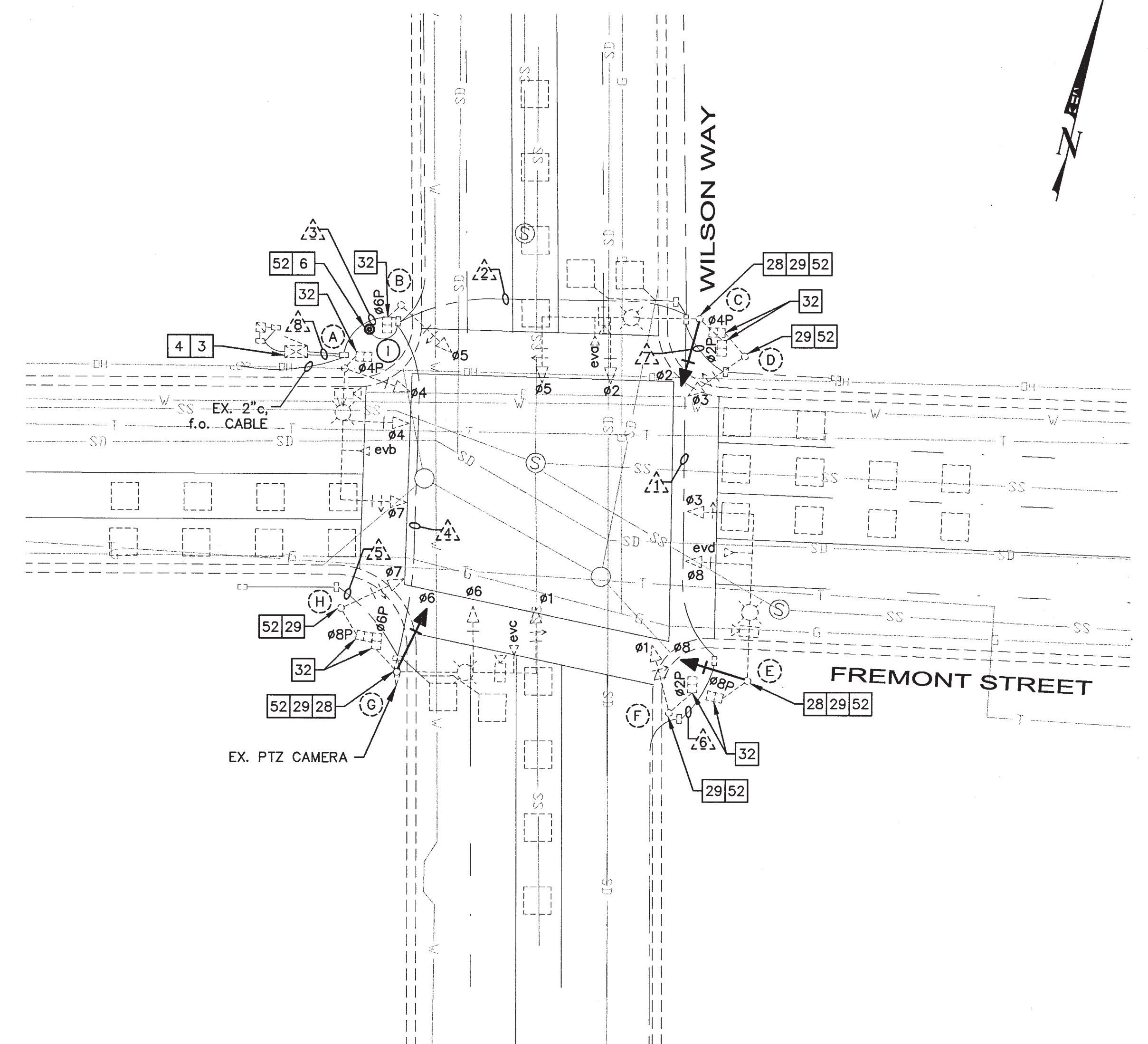


**EXISTING PHASE DIAGRAM (TO REMAIN)**  
**EVP ASSIGNMENTS**  
 EVA = Ø2 + Ø5  
 EVB = Ø4 + Ø7  
 EVC = Ø6 + Ø1  
 EVD = Ø8 + Ø3



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
 (CALTRANS STANDARD PLAN ES-4C)

POLE	TYPE	LOCATION	
		A	B
1	PPB POST	1.4'	9.7'



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 FREMONT STREET AT WILSON WAY

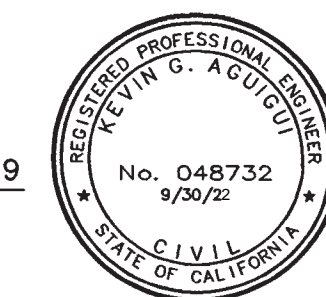
DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: [Signature]	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 12/19/2019	SHEET NO. TS-8
DRAWN BY: GMS	CHECKED BY: EKC	SHEET 24 OF 38

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

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DESIGNED UNDER THE SUPERVISION OF:  
 [Signature]  
 KEVIN G. AGUIQUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



5365.23C

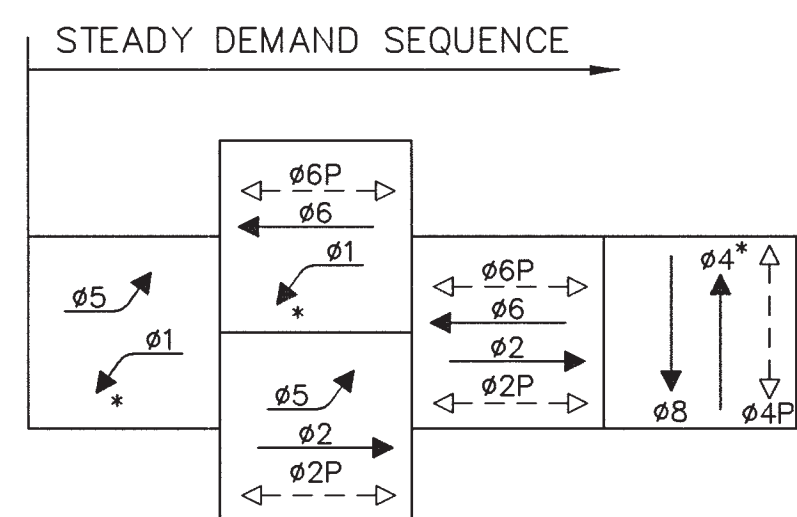


CONDUCTOR SCHEDULE								
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS							
	1	2	3	4	5	6	7	8
NO. 14 CONDUCTORS								
Ø1	3	3	3	3				
Ø2	3	3	3		3			
Ø4	6	3				3		
Ø5	6	3	3		3	3		
Ø6	3	3						
Ø8	3	3	3	3				
Ø2P	4	4	4	2	2			
Ø4P	4						4	2
Ø6P	4	2						2
Ø2 PPB	2	1	1	1				1 1 1
Ø4 PPB	2							2 1
Ø6 PPB	2	1						1
PPB COMMON	4	1	1				1	2 1
PEC	3	3						
SPARES								
	10	3	3	3	3	3	4	2
TOTAL NO. 14	59	33	21	12	11	10	16	7
NO. 10 CONDUCTORS								
LIGHTING (240V)		2	2	2	2	2		
SIGNAL COMMON	2	1	1	1	1	1	1	1
TOTAL NO. 10	2	3	3	3	3	3		
DETECTOR LEAD-IN CABLES								
Ø1	2							2
Ø2	3	1	1					2 2
Ø4	3			1				2 2
Ø5	1	1	1					
Ø6	4	2						2
Ø8	2							
TOTAL DLC	15	4	2	1				8 4
EVP CABLES								
EVA	1N							1N 1N
EVB	1N							1N
EVC	1N 1N							
EVD	1N 1N 1N 1N							
TOTAL EVP CABLES	4N 2N 1N 1N							2N 1N
APS CABLE (4C#18)								
FIBER OPTIC CABLE	1							
PTZ COMMUNICATION CABLE*	4, 1N							1N 1N
PERCENT FILL								
CONDUIT SIZE	2-4"	3"	3"	1.5"	2"	2"	3"	3"

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 \* POWER AND DATA CABLES (PER MANUFACTURER)

**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC Ø2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 8 FURNISH AND INSTALL IP PTZ CAMERA ON SIGNAL POLE. SEE DETAIL C, ON SHEET DT-2, FOR MOUNTING DETAILS.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 24 FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 31 FURNISH AND INSTALL 3-SECTION SIGNAL HEAD COVER ON SIGNAL HEAD. SEE SPECIAL PROVISIONS FOR FURTHER DETAIL.
- 33 REMOVE EXISTING 8" SIGNAL HEADS AND SV-2-TB MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL TWO NEW 12" 3-SECTION SIGNAL HEADS ON NEW SV-2-TB MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.
- 36 ROUTE EXISTING COAXIAL CABLES, COILED IN PULL BOX, INTO CONTROLLER CABINET AND PROTECT IN PLACE.
- 48 REMOVE AND SALVAGE EXISTING TYPE R TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. REMOVE AND DISPOSE OF EXISTING FOUNDATION. FURNISH AND INSTALL NEW TYPE P TRAFFIC SIGNAL CONTROLLER CABINET AND FOUNDATION AT LOCATION OF REMOVED CABINET PER DETAIL H, ON SHEET DT-4. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.

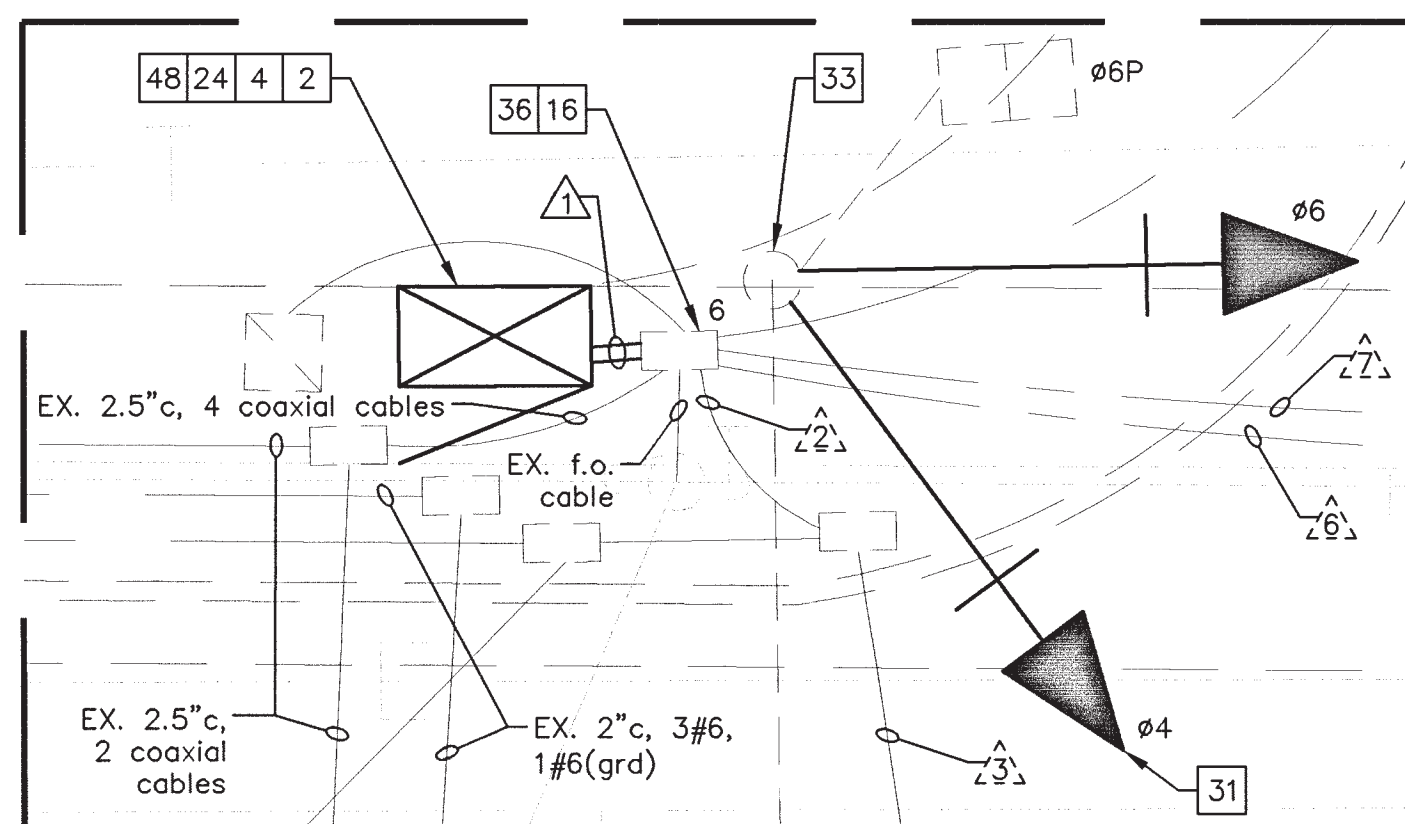


\* FUTURE PHASE

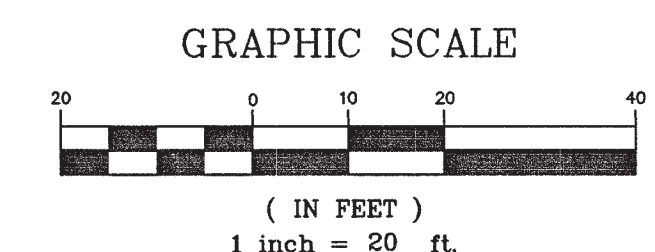
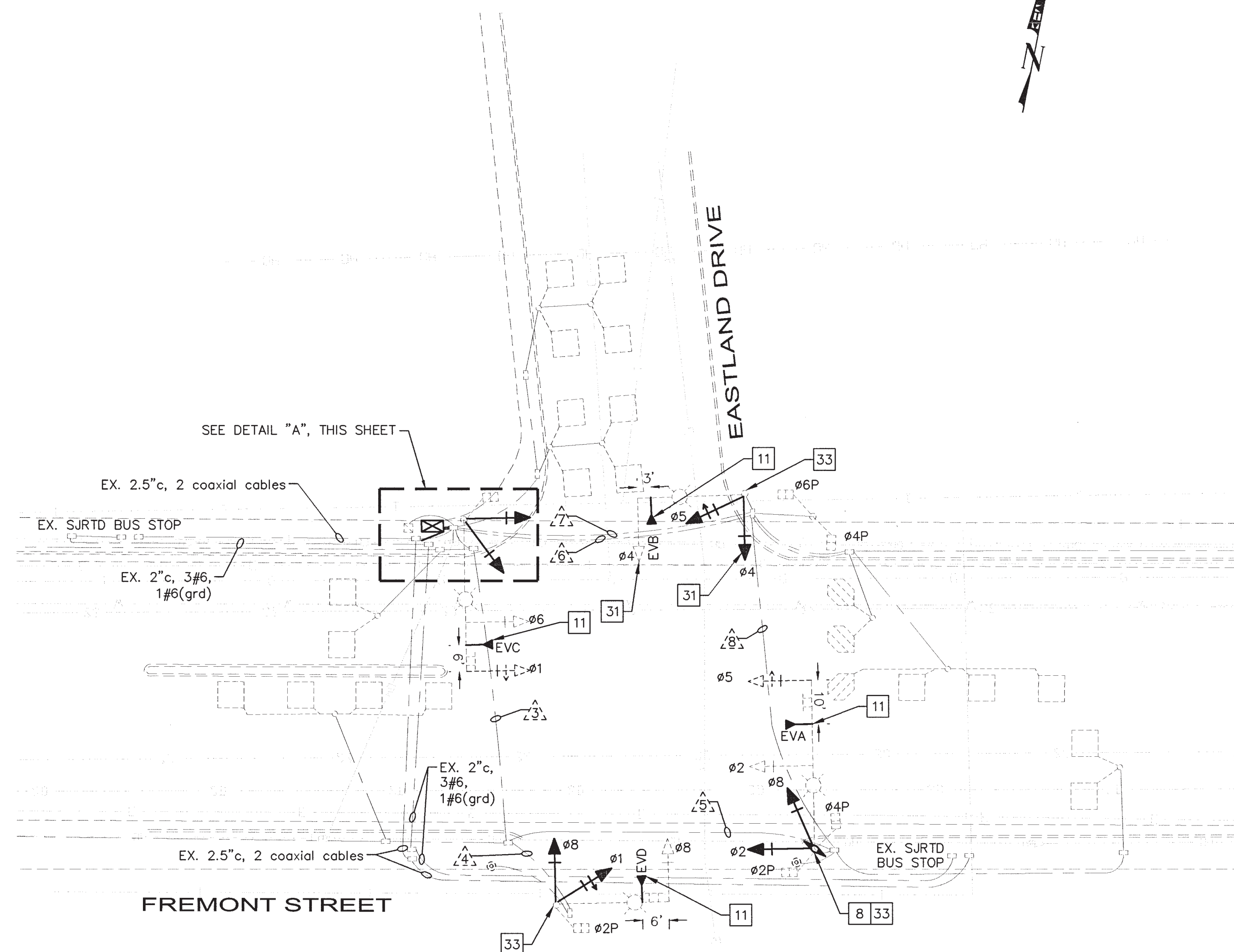
EXISTING PHASE DIAGRAM (TO REMAIN)

**EVP ASSIGNMENTS**

- EVA = Ø2 + Ø5
- EVB = Ø4
- EVC = Ø6 + Ø1
- EVD = Ø8



**DETAIL "A"**  
SCALE: 1" = 5'



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
FREMONT STREET AT EASTLAND DRIVE

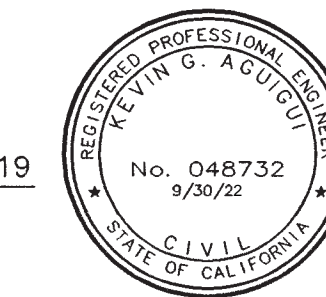
DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: <i>[Signature]</i>	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 12/19/2019	SHEET NO. TS-9
DRAWN BY: GMS	CITY ENGINEER: <i>[Signature]</i>	SHEET 25 OF 38
DESIGNED BY: ISW	STOCKTON, CALIFORNIA	
CHECKED BY: EKC		

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
*[Signature]*  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



CA: 1-800-227-2600  
**CALL BEFORE YOU DIG**  
 UNDERGROUND SERVICE ALERT  
 CALL TWO WORKING DAYS BEFORE YOU DIG

Dec 19, 2019 - 12:33pm - USER: jsmith@kvh.com  
 K:\WORK\1516\151607202017 - Stockton BRT V - K:\A\A\_CADD\Sheet\25 FREMONT AND EASTLAND.dwg

5365.29C

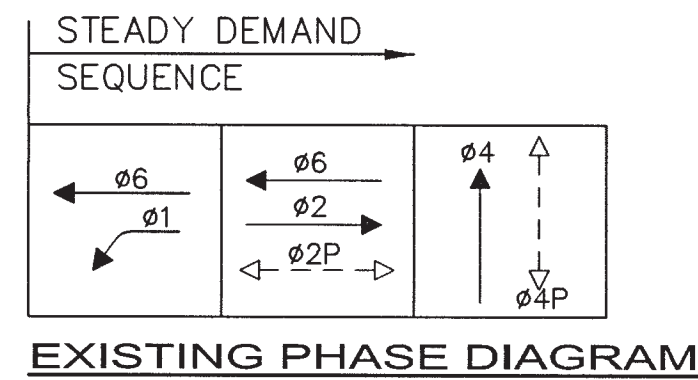
**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC eX2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 8 FURNISH AND INSTALL IP PTZ CAMERA ON SIGNAL POLE. SEE DETAIL C, ON SHEET DT-2, FOR MOUNTING DETAILS.
- 9 REMOVE AND SALVAGE EXISTING TYPE P TS1 TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. FURNISH AND INSTALL NEW TYPE P TS2 TRAFFIC SIGNAL CONTROLLER CABINET ON EXISTING FOUNDATION. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 12 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL FRAME. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 14 REMOVE AND DISPOSE OF EXISTING PULL BOX. FURNISH AND INSTALL No. 5 PULL BOX.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).

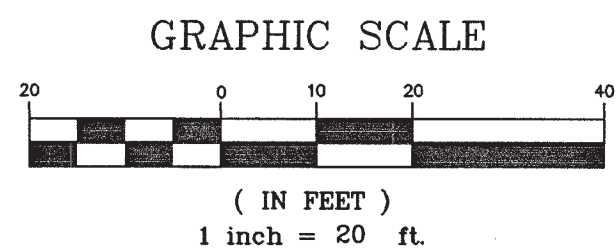
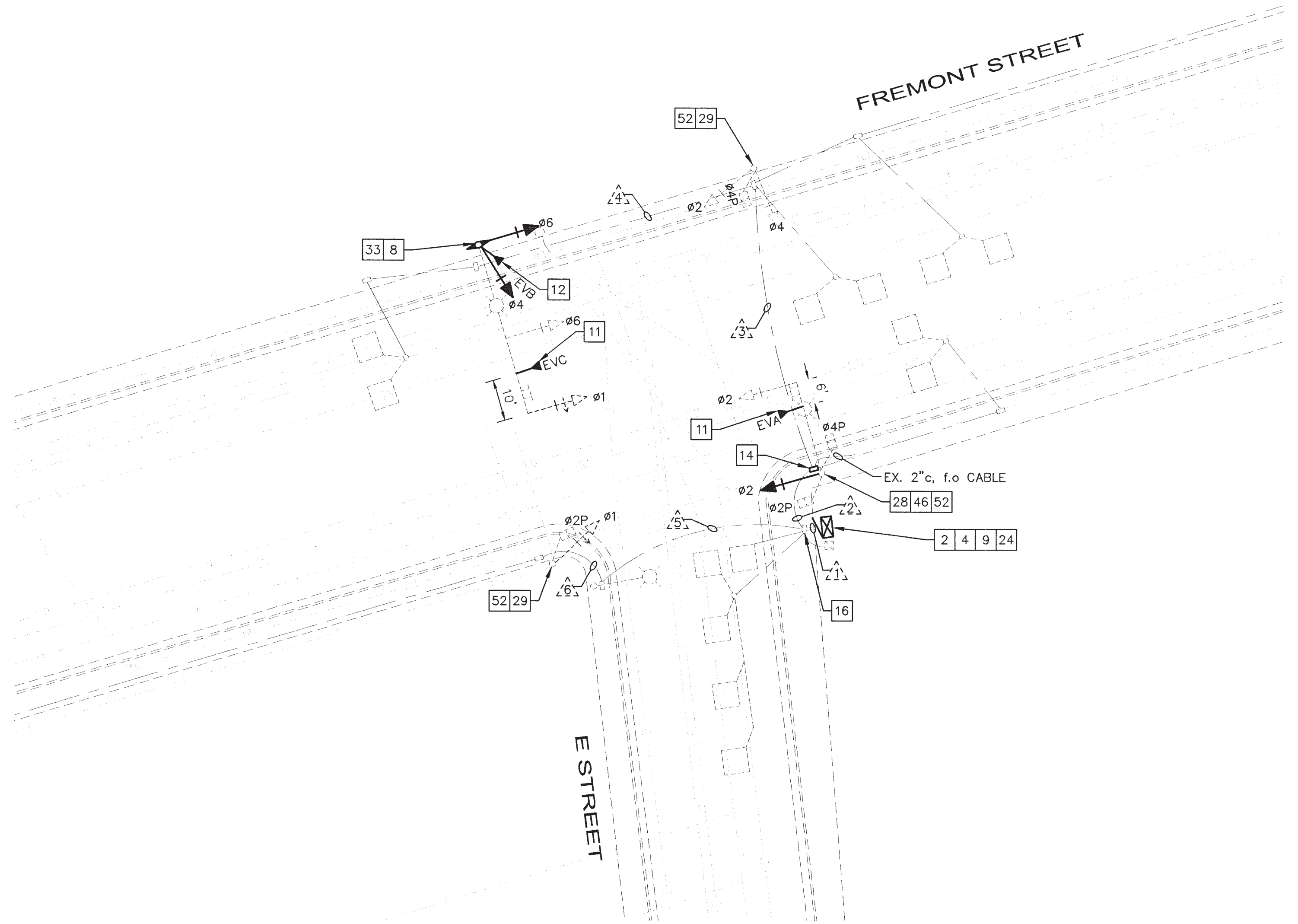
- 24 FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 33 REMOVE EXISTING 8" SIGNAL HEADS AND SV-2-TB MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL TWO NEW 12" 3-SECTION SIGNAL HEADS ON NEW SV-2-TB MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.
- 46 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS. FURNISH AND INSTALL TWO (2) ACCESSIBLE PEDESTRIAN SIGNAL SYSTEMS.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.

CONDUCTOR SCHEDULE						
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS					
	FREMONT ST AT E ST					
	1	2	3	4	5	6
NO. 14 CONDUCTORS						
Ø1	6	3	3	3	3	3
Ø2	3	3	3			
Ø4	3	3	3	3		
Ø6	3	3	3	3		
Ø2P	4	2			2	2
Ø4P	2	2	2			
Ø2 PPB	2	1			1	1
Ø4 PPB	2	1	1		1	1
SPARES	6	3	3	3	3	3
PEU	3					
TOTAL NO. 14	31	24	18	12	10	10
NO. 10 CONDUCTORS						
SIGNAL COMMON	2	1	1	1	1	1
TOTAL NO. 10	2	1	1	1	1	1
NO. 8 CONDUCTORS						
SERVICE	3					
LIGHTING (240V)	2	2	2	2		
TOTAL NO. 8	3	2	2	2	2	
DETECTOR LEAD-IN CABLES						
Ø1	2	2	2			
Ø2	3	2			1	1
Ø4	1					
Ø6	3	3	3	2		
TOTAL DLC	9	7	5	2	1	1
EVP CABLES						
EVA	1N	1N				
EVB	1N	1N	1N	1N		
EVC	1N	1N	1N	1N		
TOTAL EVP CABLES	3N	3N	2N	2N		
APS CABLE (4C#18)						
FIBER OPTIC CABLE	1	1				
PTZ COMMUNICATION CABLE*	1N	1N	1N	1N		
PHONE CABLE	1	1				
PERCENT FILL	16	27	17	26	6	10
CONDUIT SIZE	2-3"	3"	3"	2"	3"	2"

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 \* POWER AND DATA CABLES (PER MANUFACTURER)



**EVP ASSIGNMENTS**  
 EVA = Ø2  
 EVB = Ø4  
 EVC = Ø6 + Ø1



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 FREMONT STREET AT E STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	SCALE: AS NOTED	APPROVED BY: [Signature]	DATE: 3/31/20	PROJECT NO. PW1516
DRAWN BY: GMS	DESIGNED BY: ISW	CHECKED BY: EKC	CITY ENGINEER	SHEET NO. TS-10
				SHEET 26 OF 36

5365.25C



K:\WORK\ITS\097020017 - Stockton BRT V - KCA\04\_0400\Sheet\26 FREMONT AND E.C.dwg

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

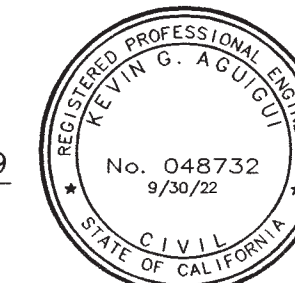
**Kimley»Horn**

1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

[Signature] 12/19/2019

KEVIN G. AGUIQUI DATE  
 R.C.E. No. 048732, EXP. 9/30/22

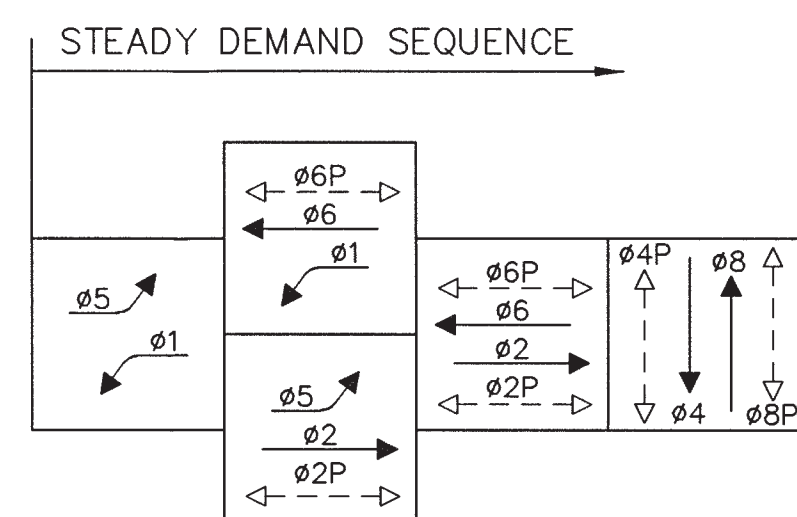


CONDUCTOR SCHEDULE								
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS							
	1	2	3	4	5	6	7	8
<b>28-CONDUCTOR CABLES</b>								
POLE A	1	1						
POLE C	1	1	1	1				
POLE E	1				1	1	1	
POLE G	1				1			
<b>TOTAL 28-CONDUCTOR CABLES</b>	<b>4</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>12-CONDUCTOR CABLES</b>								
POLE B			1					
POLE D				1				
POLE F							1	
POLE H					1			
<b>TOTAL 12-CONDUCTOR CABLES</b>	<b></b>	<b></b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>3-CONDUCTOR CABLES</b>								
POLE A	1	1						
POLE B	1	1	1					
POLE C	1	1	1	1				
POLE D	1	1	1	1	1			
POLE E	1					1	1	1
POLE F	1					1	1	
POLE G	1					1		
POLE H	1							
<b>TOTAL 3-CONDUCTOR CABLES</b>	<b>8</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>1</b>
<b>NO. 10 CONDUCTORS</b>								
LIGHTING (240V)		2	2			2	2	2
<b>TOTAL NO. 10</b>	<b></b>	<b>2</b>	<b>2</b>	<b></b>	<b></b>	<b>2</b>	<b>2</b>	<b>2</b>
<b>NO. 8 CONDUCTORS</b>								
LIGHT SERVICE		2						
<b>TOTAL NO. 8</b>	<b></b>	<b>2</b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>
<b>DETECTOR LEAD-IN CABLES</b>								
Ø1	1	1	1					
Ø2	3	2	2			1	1	
Ø4	3	3	3	3	3			
Ø5	1						1	1
Ø6	3	1	1	1		2		
Ø8	3							
<b>TOTAL DLC</b>	<b>14</b>	<b>7</b>	<b>7</b>	<b>4</b>	<b>3</b>	<b>4</b>	<b>2</b>	<b></b>
<b>EVP CABLES</b>								
EVA	1N	1N	1N	1N				
EVB	1N					1N	1N	1N
EVC	1N					1N		
EVD	1N	1N						
<b>TOTAL EVP CABLES</b>	<b>4N</b>	<b>2N</b>	<b>1N</b>	<b>1N</b>	<b></b>	<b>2N</b>	<b>1N</b>	<b>1N</b>
<b>APS CABLE (4C#18)</b>								
FIBER OPTIC CABLE		2	2	1				
PTZ COMMUNICATION CABLE*		5				1		
<b>PERCENT FILL</b>	<b>24</b>	<b>22</b>	<b>17</b>	<b>24</b>	<b>14</b>	<b>21</b>	<b>16</b>	<b>17</b>
<b>CONDUIT SIZE</b>	<b>2-4"</b>	<b>4"</b>	<b>4"</b>	<b>2.5"</b>	<b>2.5"</b>	<b>4"</b>	<b>3"</b>	<b>3"</b>

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 \* POWER AND DATA CABLES (PER MANUFACTURER)

**CONSTRUCTION NOTES: (THIS SHEET ONLY)**

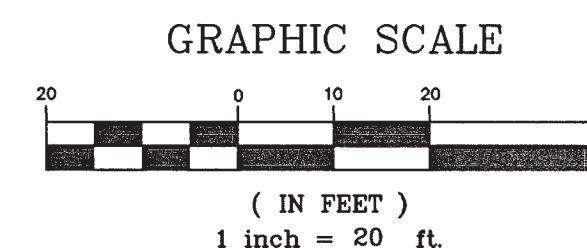
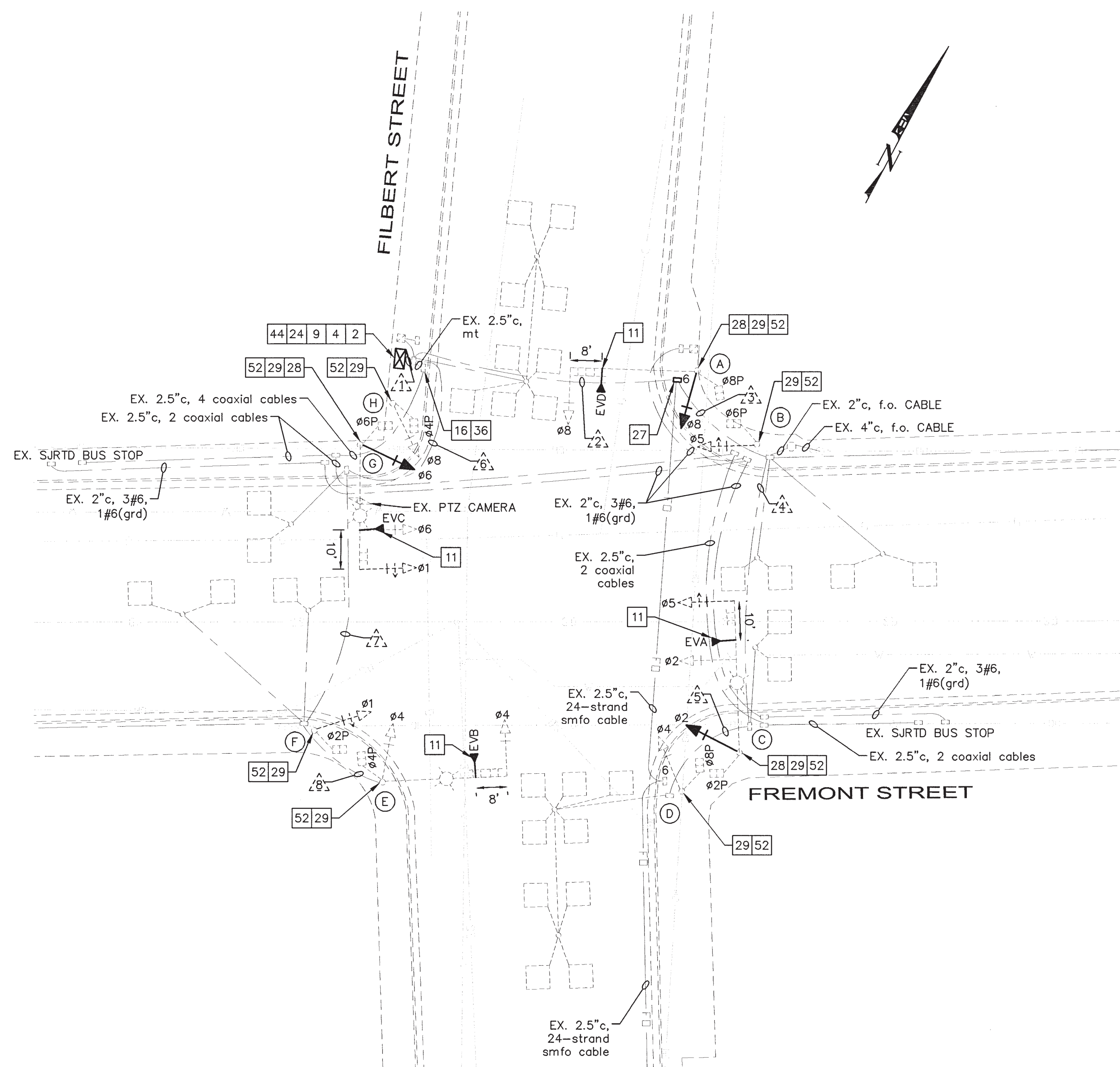
- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC#2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 9 REMOVE AND SALVAGE EXISTING TYPE P TS1 TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. FURNISH AND INSTALL NEW TYPE P TS2 TRAFFIC SIGNAL CONTROLLER CABINET ON EXISTING FOUNDATION. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 24 FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 27 REMOVE AND SALVAGE EXISTING PULL BOX. FURNISH AND INSTALL No. 6 PULL BOX.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 36 ROUTE EXISTING COAXIAL CABLES, COILED IN PULL BOX, INTO CONTROLLER CABINET AND PROTECT IN PLACE.
- 44 REMOVE AND SALVAGE EXISTING IFS VIDEO MODEM (ONE-PORT) TO CORPORATION YARD. FURNISH AND INSTALL FIBER OPTIC VIDEO/DATA MODEM (8-PORT) IN CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.



EXISTING PHASE DIAGRAM

**EVP ASSIGNMENTS**

- EVA = Ø2 + Ø5
- EVB = Ø4
- EVC = Ø6 + Ø1
- EVD = Ø8



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 FREMONT STREET AT FILBERT STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: <b>DECEMBER 2019</b>	APPROVED BY: <i>[Signature]</i> DATE: <b>9/30/20</b>	PROJECT NO. <b>PW1516</b>
SCALE: <b>AS NOTED</b>	DRAWN BY: <b>GMS</b>	SHEET NO. <b>TS-11</b>
DESIGNED BY: <b>ISW</b>	CHECKED BY: <b>EKC</b>	CITY ENGINEER <i>[Signature]</i> STOCKTON, CALIFORNIA

5365.26C

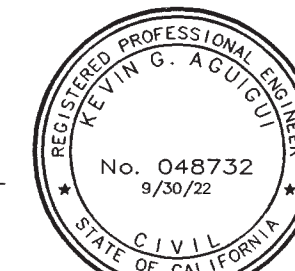


NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

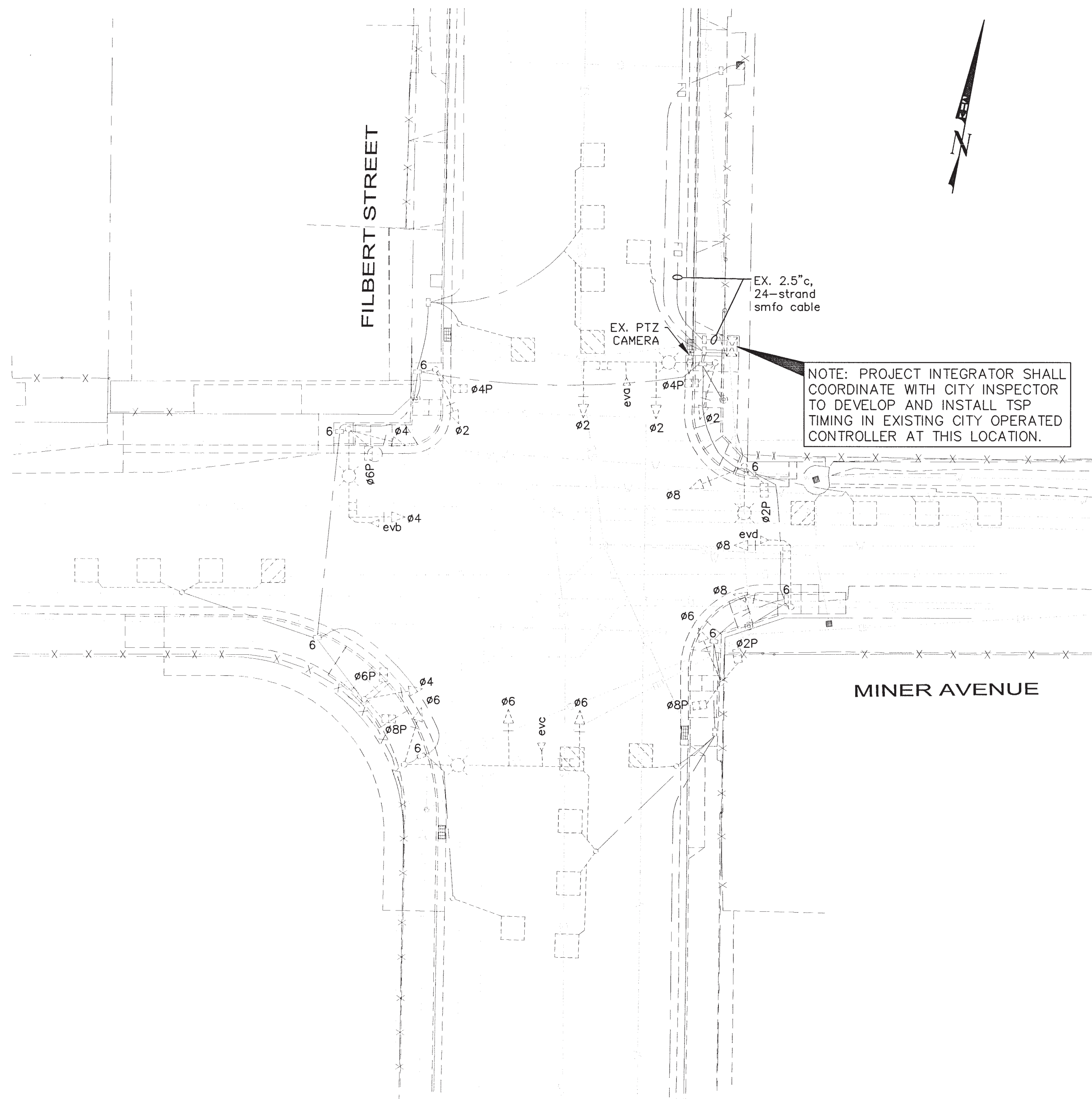
**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

*[Signature]*  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22

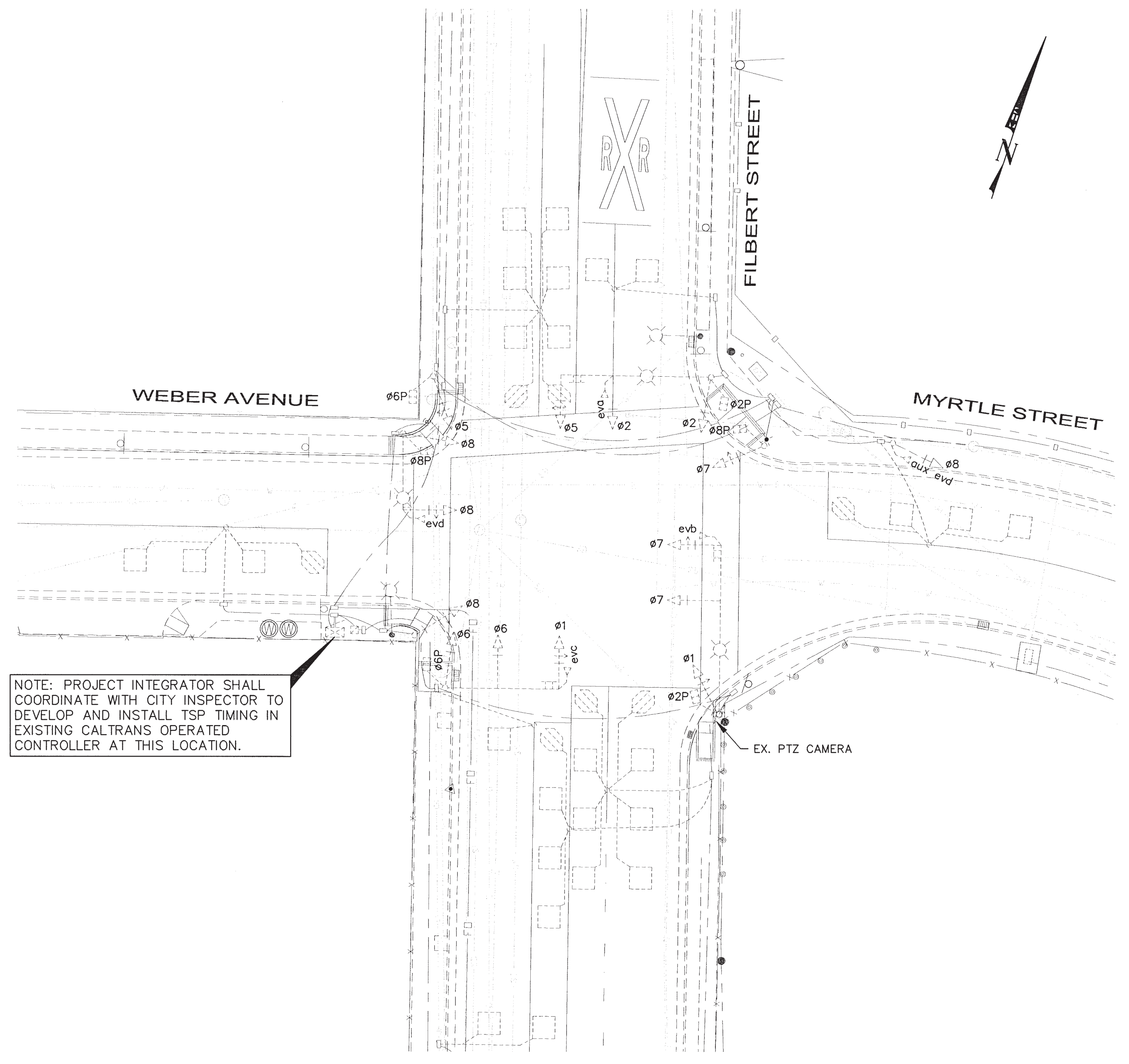


Dec 10, 2019 - 12:25pm - USER: Joseph.Hornop  
 S:\Projects\1516\151602017 - Stockton BRT V - Road\04\_CADD\Sheet\1517 FREMONT AND FILBERT.dwg



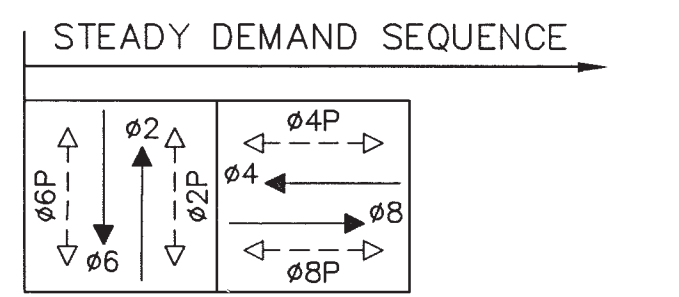
NOTE: PROJECT INTEGRATOR SHALL COORDINATE WITH CITY INSPECTOR TO DEVELOP AND INSTALL TSP TIMING IN EXISTING CITY OPERATED CONTROLLER AT THIS LOCATION.

FILBERT STREET AT MINER AVENUE



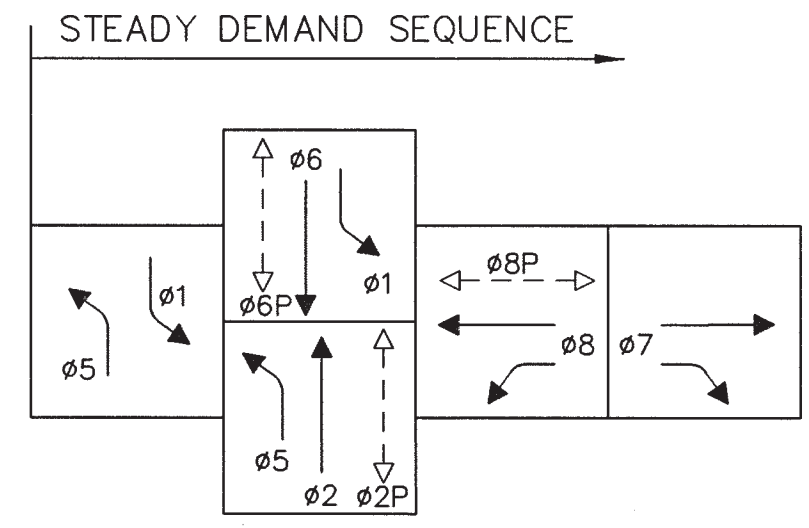
NOTE: PROJECT INTEGRATOR SHALL COORDINATE WITH CITY INSPECTOR TO DEVELOP AND INSTALL TSP TIMING IN EXISTING CALTRANS OPERATED CONTROLLER AT THIS LOCATION.

FILBERT STREET AT MYRTLE STREET (WEBER AVENUE)



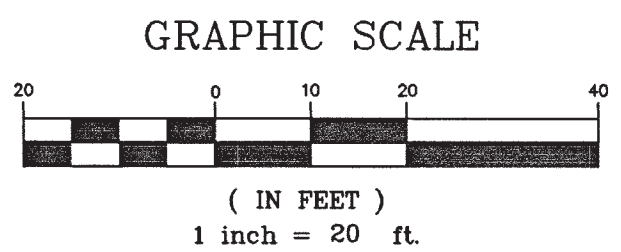
EXISTING PHASE DIAGRAM

**EVP ASSIGNMENTS**  
 EVA = 02  
 EVB = 04  
 EVC = 06  
 EVD = 08



EXISTING PHASE DIAGRAM

**EVP ASSIGNMENTS**  
 EVA = 02 + 05  
 EVB = 07  
 EVC = 06 + 01  
 EVD = 08



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Cloy Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION &**  
 FILBERT STREET AT MINER AVENUE  
 FILBERT STREET AT MYRTLE STREET (WEBER AVENUE)

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

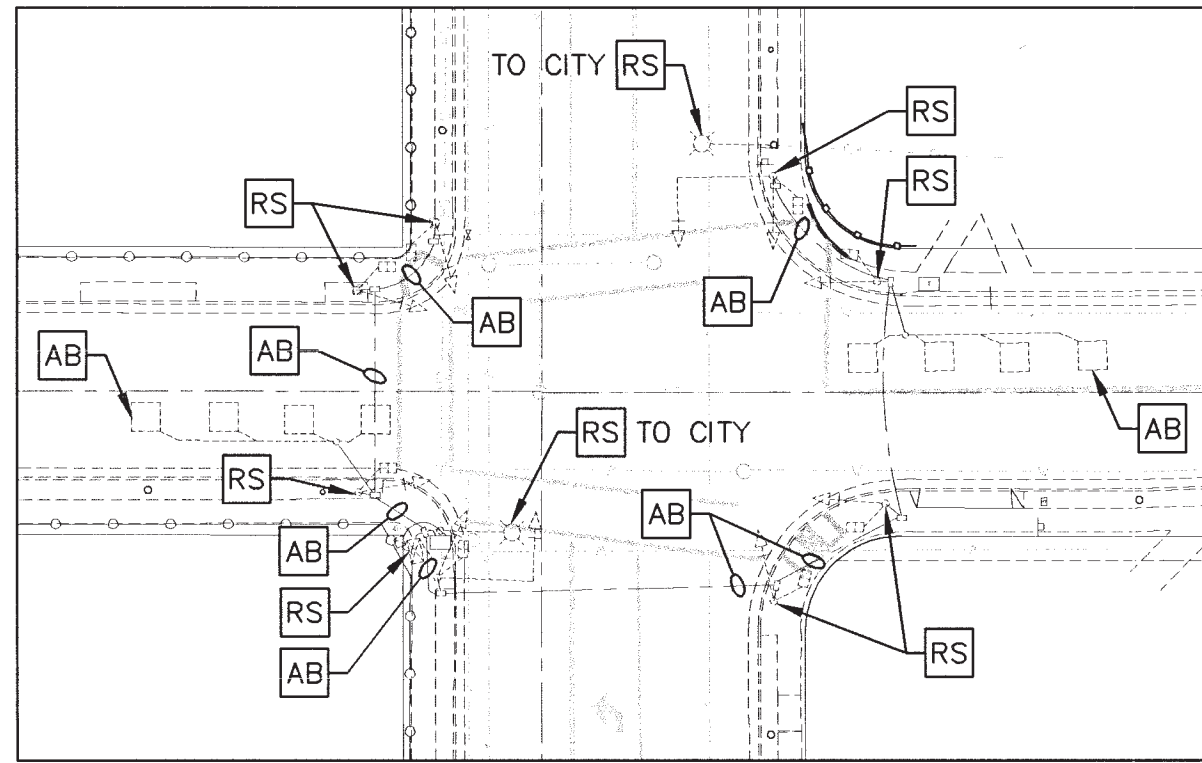
DATE: DECEMBER 2019  
 SCALE: AS NOTED  
 DRAWN BY: GMS  
 DESIGNED BY: ISW  
 CHECKED BY: EKC

APPROVED BY:   
 DATE: 3/31/20  
 CITY ENGINEER  
 STOCKTON, CALIFORNIA

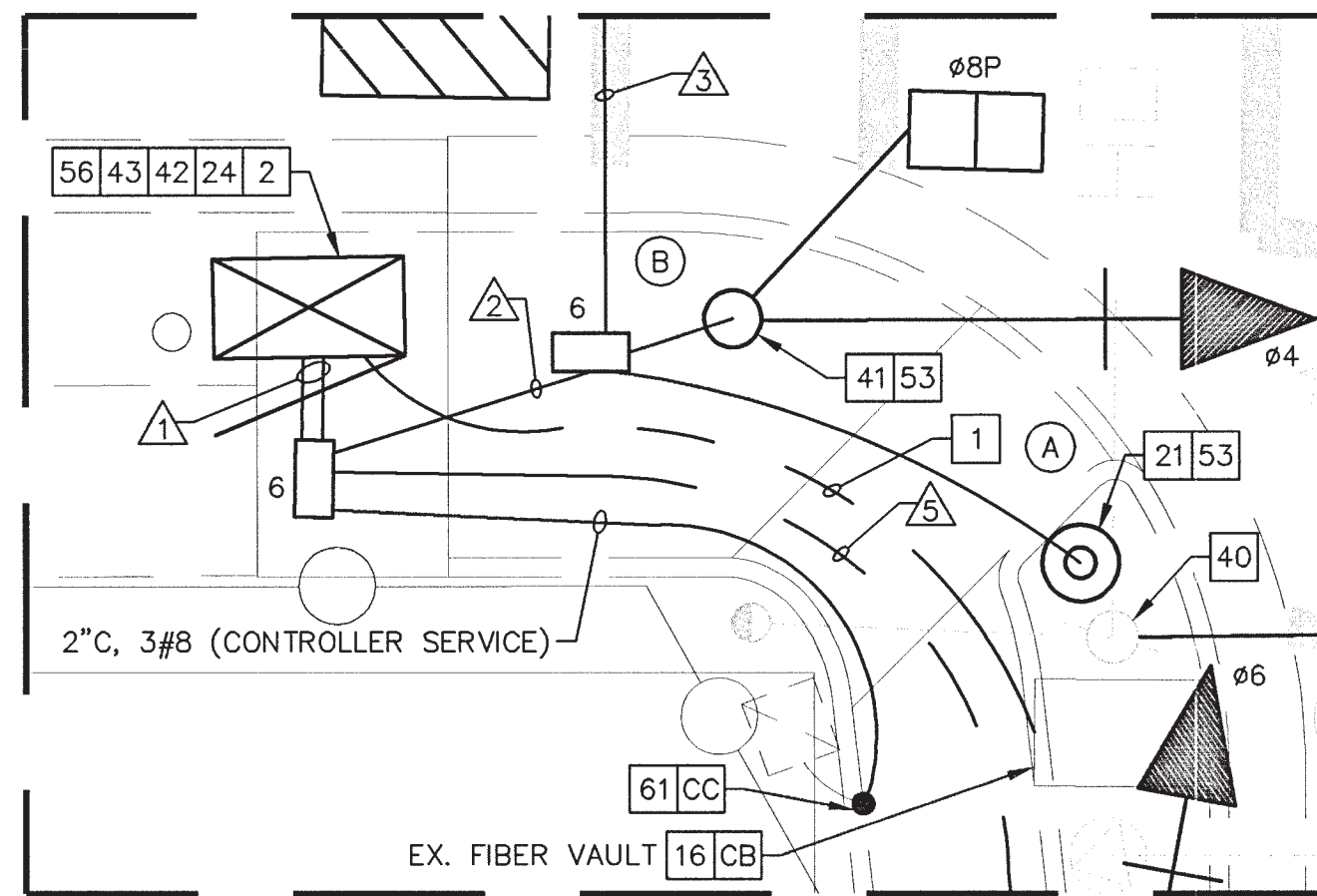
PROJECT NO. PW1516  
 SHEET NO. TS-12  
 SHEET 28 OF 38

5365-27C

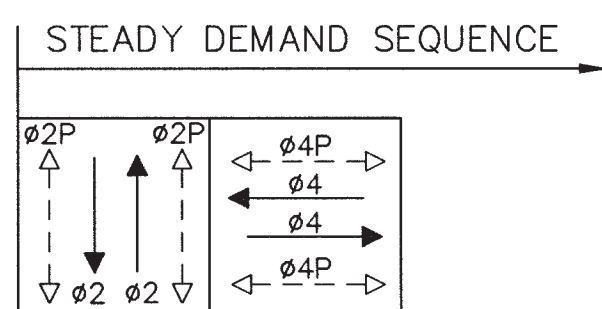




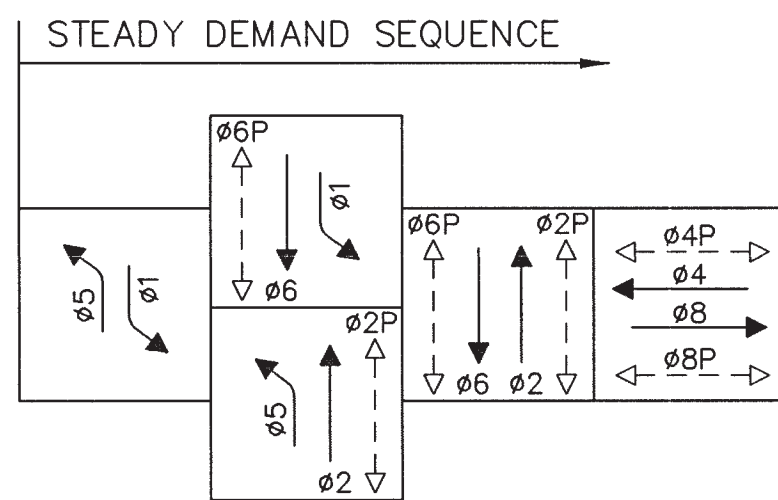
**REMOVAL PLAN**  
SCALE: 1" = 40'



**DETAIL "A"**  
SCALE: 1" = 5'



**EXISTING PHASE DIAGRAM**



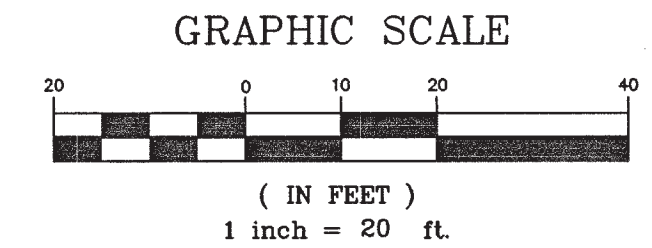
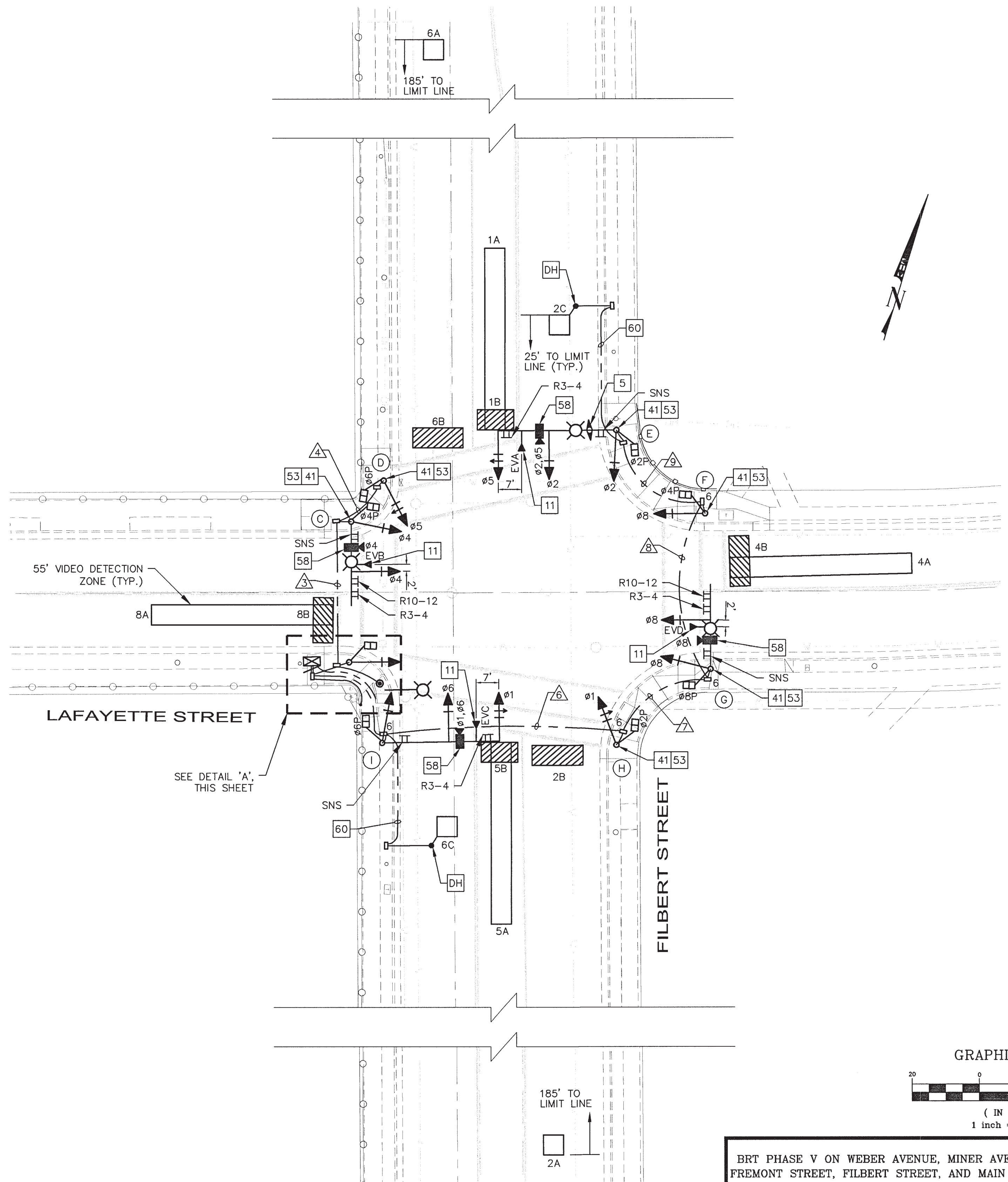
**PROPOSED PHASE DIAGRAM**

**EVP ASSIGNMENTS**

- EVA = 02 + 05
- EVB = 04
- EVC = 06 + 01
- EVD = 08

**CONSTRUCTION NOTES: (THIS SHEET ONLY)**

- 1 FURNISH AND INSTALL 2.5" RIGID METAL CONDUIT FOR FIBER OPTIC CABLE INTO NEW FOUNDATION PER DETAIL H, SHEET DT-4.
- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 5 FURNISH AND INSTALL IP PTZ CAMERA ON LUMINAIRE ARM. SEE DETAIL D, ON SHEET DT-2, FOR MOUNTING DETAILS.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 21 FURNISH AND INSTALL NEW PEDESTRIAN PUSH BUTTON POST WITH ONE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 24 FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 40 FURNISH AND INSTALL 107W LED LUMINAIRE ON EXISTING PG&E POLE.
- 41 FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 42 FURNISH AND INSTALL NEW ATC 02X2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 43 FURNISH AND INSTALL NEW TYPE P TRAFFIC SIGNAL CONTROLLER CABINET ON NEW FOUNDATION. SEE DETAIL H, SHEET DT-4, FOR FOUNDATION DETAIL. TERMINATE ALL WIRING INTO NEW CABINET.
- 53 FURNISH AND INSTALL NEW PUSH BUTTON CONDUCTORS BETWEEN ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) AND CABINET. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 56 FURNISH AND INSTALL VIDEO DETECTION SYSTEM IN CONTROLLER CABINET. CONNECT CAMERAS AND CONFIGURE SYSTEM.
- 58 FURNISH AND INSTALL VIDEO DETECTION CAMERA ON TRAFFIC SIGNAL MAST ARM. SEE DETAIL E, SHEET DT-3, FOR MOUNTING DETAILS.
- 60 FURNISH AND INSTALL 2" CONDUIT WITH ONE (1) DETECTOR LOOP CABLE.
- 61 EXTEND CONDUIT INTO NEW PULL BOX.



Dec 19, 2019 - 12:25pm - USER: jsmith/errop  
 K:\WORK\15\09702007 - Stockton BRT V - KGA\VA\_CADD\Sheets\0 Filbert Street at Lafayette Street.dwg



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIGUI DATE 12/19/2019  
 R.C.E. No. 048732, EXP. 9/30/22



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 FILBERT STREET AT LAFAYETTE STREET

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	PROJECT NO. PW1516
SCALE: AS NOTED	SHEET NO. TS-14
DRAWN BY: GMS	CHECKED BY: EKC
DESIGNED BY: ISW	APPROVED BY: DATE 9/30/20
CHECKED BY: EKC	CITY ENGINEER

PROJECT NO. PW1516  
 SHEET NO. TS-14  
 SHEET 30 OF 36

5365.29C

CONDUCTOR SCHEDULE												
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS											
	FILBERT STREET AT LAFAYETTE STREET											
	1	2	3	4	5	6	7	8	9	10	11	12
NO. 14 CONDUCTORS												
Ø1	3				3	3						
Ø2	3				3	3	3	3	3			
Ø4	3	3	3									
Ø5	6	3	3	3	3	3	3	3	3			
Ø6	3				3							
Ø8	3				3	3	3	3				
Ø2P	2				2	2	2	2	2	2		
Ø4P	4	2	2		2	2	2	2				
Ø6P	4	2	2	2	2	2						
Ø8P	4	2			2	2	2					
Ø2 PPB	1				1	1	1	1				
Ø4 PPB	2	1	1	1	1	1	1	1	1	1		
Ø6 PPB	1	1	1									
Ø8 PPB	2	1			1	1						
PPB COMMON	2	1	1	1	1	1	1	1	1	1		
SPARES	6	3	3	3	3	3	3	3	3			
PEU	3				3							
TOTAL NO. 14	52	19	16	10	33	25	21	19	13			
NO. 10 CONDUCTORS												
SIGNAL COMMON	2	1	1	1	1	1	1	1	1			
TOTAL NO. 10	2	1	1	1	1	1	1	1	1			
NO. 8 CONDUCTORS												
LIGHTING (240V)		2	2		2	2	2	2	2			
120V SIGNAL SERVICE	3											
TOTAL NO. 8	3	2	2		2	2	2	2	2			
EVP CABLES												
EVA	1				1	1	1	1	1			
EVB	1	1	1									
EVC	1				1							
EVD	1				1	1	1					
TOTAL EVP CABLES	4	1	1		3	2	2	1	1			
VIDEO DETECTION CABLE**												
Ø2, Ø5	1				1	1	1	1	1			
Ø4	1	1	1									
Ø6, Ø1	1				1							
Ø8	1				1	1	1					
DETECTION LOOP CABLE												
Ø2	1				1	1	1	1	1			
Ø6	1				1							
APS CABLE (4C#18)		1		2	1		2		2			
PTZ COMMUNICATION CABLE*	1				1							
FIBER OPTIC CABLE												
PERCENT FILL	9	11	9	5	23	14	15	11	10			
CONDUIT SIZE	2-4"	3"	3"	3"	3"	3"	3"	3"	3"			

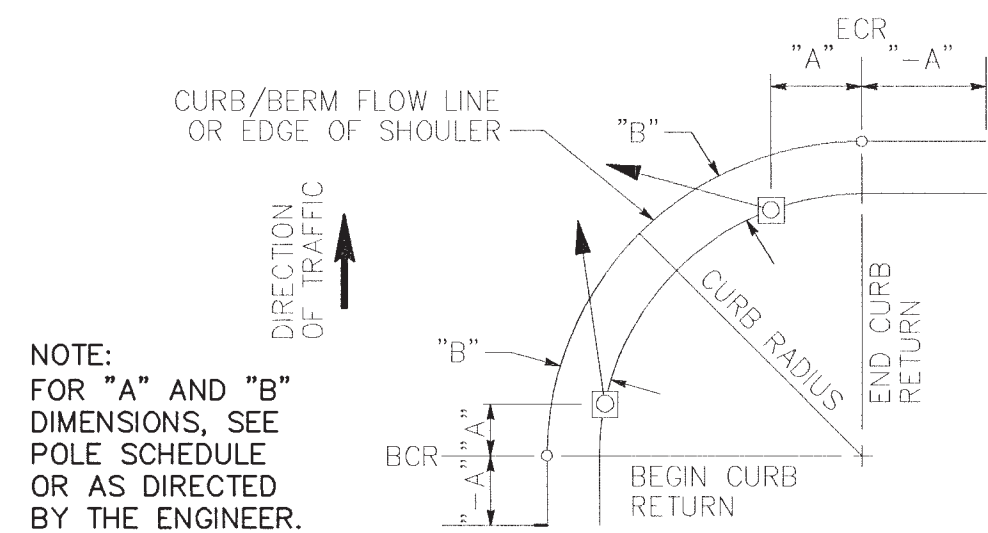
ALL CONDUITS & CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED.  
 E - DENOTES EXISTING CONDUCTOR  
 \* POWER AND DATA CABLES (PER MANUFACTURER)  
 \*\* CABLES PER MANUFACTURER

POLE AND EQUIPMENT SCHEDULE													
LOCATION	STANDARD			LOCATION		LED LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	APS		STREET NAME SIGN (S.N.S.) LEGEND	*SPECIAL REQUIREMENTS
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	A	B		MAST ARM	POLE		Ø	ARROW		
(A)	PPB POST	-	-	5.6'	2.6'	-	-	-	-	8	LEFT	-	
(B)	1-B	-	-	1.6'	2.7'	-	-	TV-1-T	SP-1-T	6	RIGHT	-	
(C)	19-4-100	25'	12'	2.65'	2.6'	107W	MAS	SV-1-T	SP-1-T	6	LEFT	FILBERT ST 200	FURNISH AND INSTALL R3-4 SIGN, R10-12 SIGN, EVP, AND VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
(D)	1-B	-	-	0'	2.6'	-	-	TV-1-T	SP-1-T	4	RIGHT	-	
(E)	23-4-100	35'	-	0.8'	3.3'	107W	MAS MAS	SV-1-T	SP-1-T	4	LEFT	LAFAYETTE ST 2500	FURNISH AND INSTALL IP PTZ CAMERA ON LUMINAIRE ARM. FURNISH AND INSTALL R3-4 SIGN, EVP, AND VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
(F)	1-B	-	-	-0.3'	3.2'	-	-	TV-1-T	SP-1-T	2	RIGHT	-	
(G)	19-4-100	25'	12'	0.8'	3'	107W	MAS	SV-1-T	SP-1-T	2	LEFT	FILBERT ST 300	FURNISH AND INSTALL R3-4 SIGN, R10-12 SIGN, EVP, AND VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
(H)	1-B	-	-	4.1'	2.65'	-	-	TV-1-T	SP-1-T	8	RIGHT	-	
(I)	23-4-100	35'	-	-12.35'	3.5'	-	MAS MAS	SV-1-T	SP-1-T	-	-	LAFAYETTE ST 2400	FURNISH AND INSTALL R3-4 SIGN, EVP, AND VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.

\* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND CALTRANS STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING, SEE CALTRANS STANDARD PLANS.

- ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
- PEDESTRIAN PUSH BUTTONS SHALL MEET ADA ACCESSIBILITY GUIDELINES. MOUNTING HEIGHT OF PPB IS 40" ABOVE FINISHED SIDEWALK SURFACE.
- R3-4 OR R10-12 M.A. SIGN SHALL BE INSTALLED 3'6" FROM END OF MAST ARM, (CENTER TO CENTER) UNLESS OTHERWISE SHOWN.
- ALL VEHICLE INDICATIONS SHALL BE 12" L.E.D.
- PEDESTRIAN PUSH BUTTON SIGNS SHALL MEET MUTCD R10-3b, UNLESS OTHERWISE INDICATED BY THE ENGINEER.
- PEDESTRIAN PUSH BUTTON SIGNS SHALL FIT ON THE 9"x12" HOUSING WITHOUT ANY MODIFICATIONS.
- PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE.
- MAST ARM STREET NAME SIGNS ARE TO BE PER STOCKTON STANDARD DRAWING R-94.
- 1-B STREET NAME SIGNS ARE TO BE PER STOCKTON STANDARD DRAWING R-109 (DETAIL A).

DETECTOR TABLE			
DETECTOR NO.	Ø	NUMBER OF DETECTORS	DETECTOR TYPE
1	1A	1	
2	2A	1	
3	4A	1	
4	5A	1	
5	6A	1	
6	8A	1	
7	1B	1	BIKE
8	2B	1	BIKE
9	4B	1	BIKE
10	6B	1	BIKE
11	8B	1	BIKE
12	2D	1	SAMPLER
13	6C	1	SAMPLER



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
(CALTRANS STANDARD PLAN ES-4C)



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22

12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, PREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL SCHEDULE**  
 FILBERT STREET AT LAFAYETTE STREET SCH

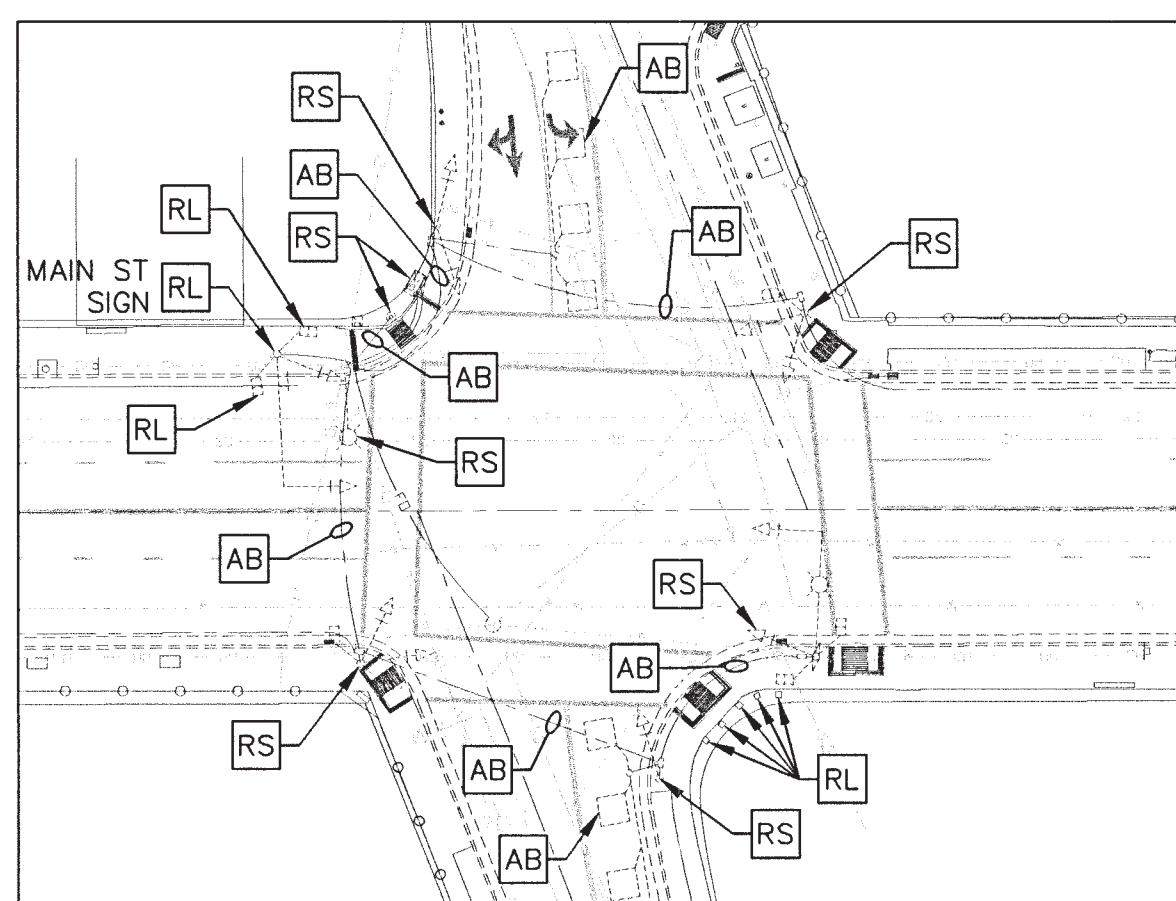
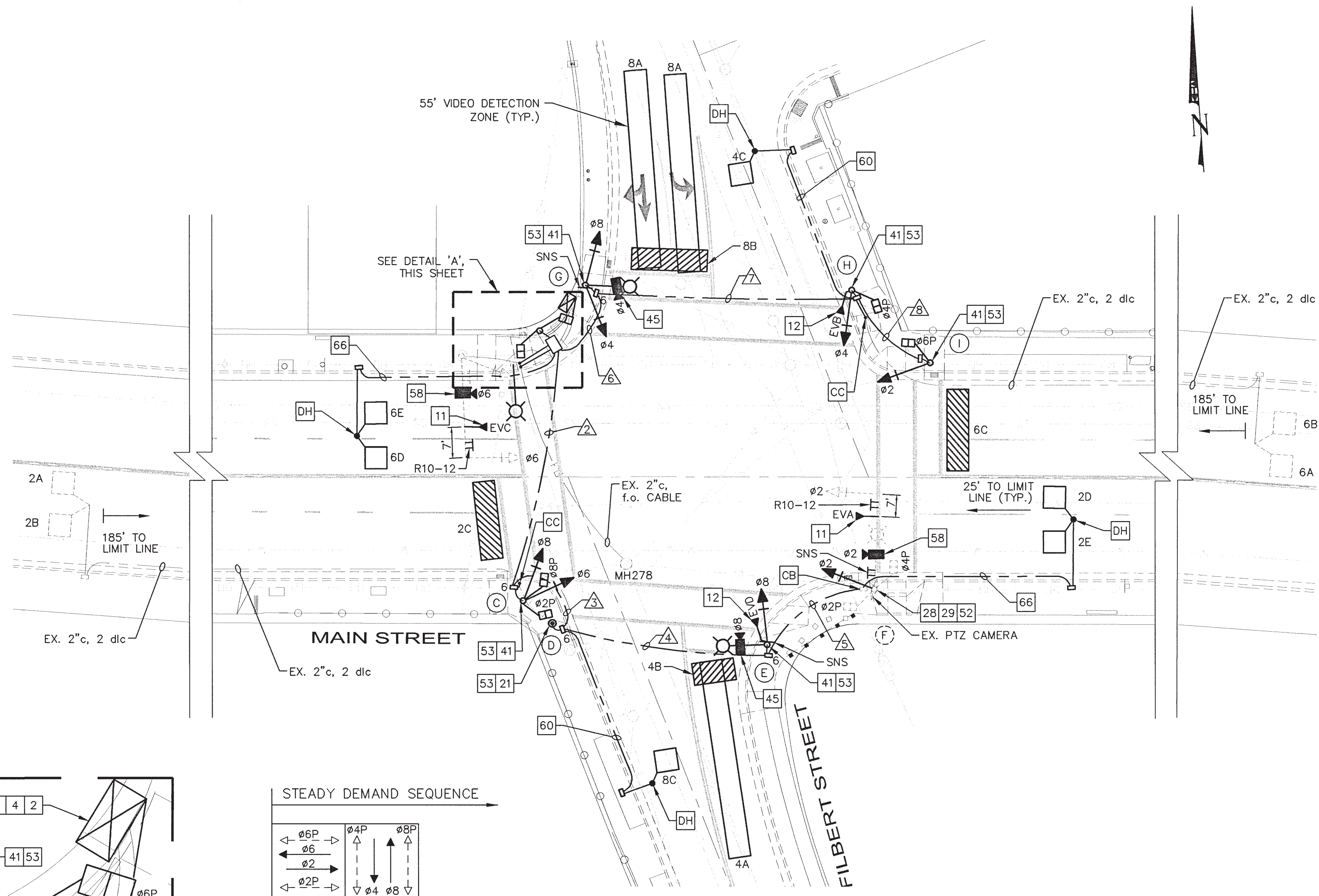
DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: [Signature]	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 12/19/2019	SHEET NO. TS-14B
DRAWN BY: GMS	CITY ENGINEER	SHEET 31 OF 38
CHECKED BY: EKC	STOCKTON, CALIFORNIA	

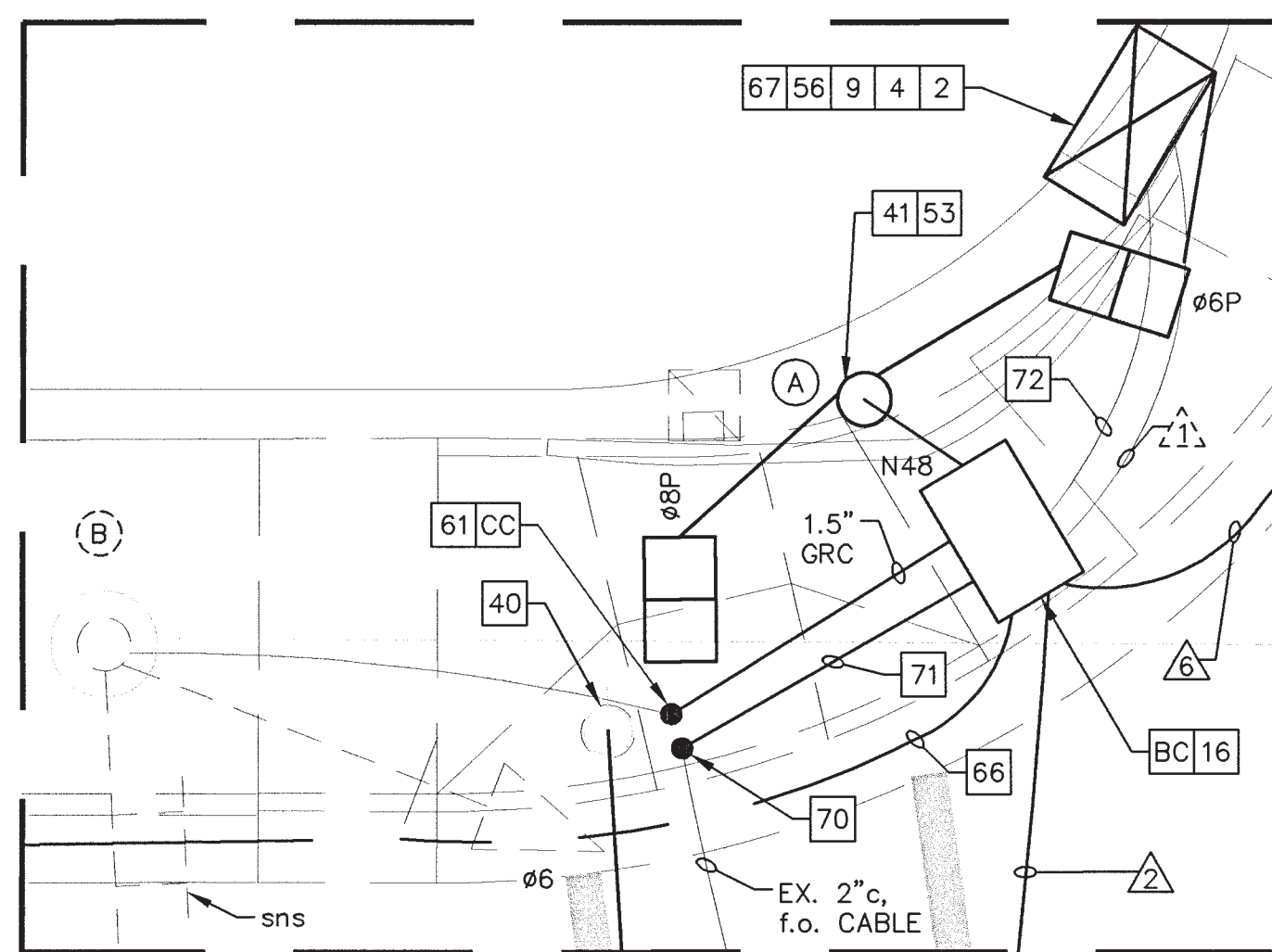
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**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

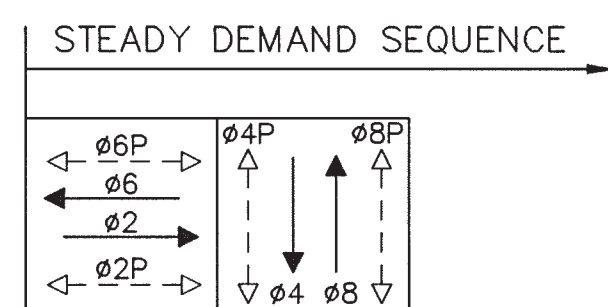
- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC<sub>02</sub> CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 9 REMOVE AND SALVAGE EXISTING TYPE P TS1 TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. FURNISH AND INSTALL NEW TYPE P TS2 TRAFFIC SIGNAL CONTROLLER CABINET ON EXISTING FOUNDATION. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 12 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL FRAME. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 21 FURNISH AND INSTALL NEW PEDESTRIAN PUSH BUTTON POST WITH ONE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 40 FURNISH AND INSTALL 107W LED LUMINAIRE ON EXISTING PG&E POLE.
- 41 FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 45 FURNISH AND INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM. SEE DETAIL E, SHEET DT-3, FOR MOUNTING DETAILS.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 53 FURNISH AND INSTALL NEW PUSH BUTTON CONDUCTORS BETWEEN ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) AND CABINET. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 58 FURNISH AND INSTALL VIDEO DETECTION SYSTEM IN CONTROLLER CABINET. CONNECT CAMERAS AND CONFIGURE SYSTEM.
- 58 FURNISH AND INSTALL VIDEO DETECTION CAMERA ON TRAFFIC SIGNAL MAST ARM. SEE DETAIL E, SHEET DT-3, FOR MOUNTING DETAILS.
- 60 FURNISH AND INSTALL 2" CONDUIT WITH ONE (1) DETECTOR LOOP CABLE.
- 61 EXTEND CONDUIT INTO NEW PULL BOX.
- 66 FURNISH AND INSTALL 2" CONDUIT WITH TWO (2) DETECTOR LOOP CABLES.
- 67 REMOVE AND SALVAGE EXISTING IFS VIDEO MODEM (ONE-PORT) TO CORPORATION YARD. FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 70 CUT BACK EXISTING CONDUIT AS NECESSARY TO COUPLE WITH SPLIT CONDUIT. PROTECT EXISTING FIBER IN CONDUIT. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 71 FURNISH AND INSTALL 2" SPLIT CONDUIT AROUND EXISTING FIBER OPTIC CABLE AND EXTEND CONDUIT INTO NEW PULL BOX. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 72 REINSTALL FIBER OPTIC CABLE IN EXISTING 2" CONDUIT. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).



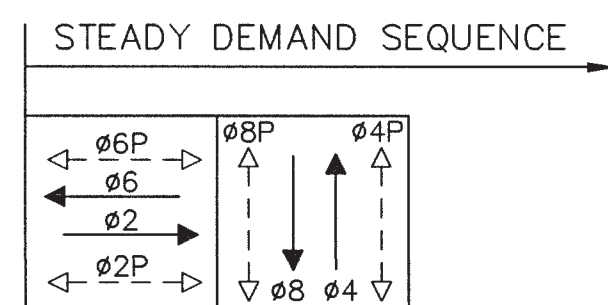
**REMOVAL PLAN**  
SCALE: 1" = 40'



**DETAIL "A"**  
SCALE: 1" = 5'



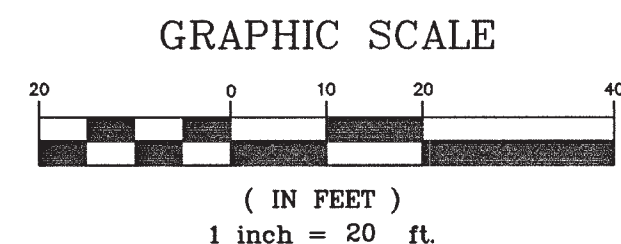
**EXISTING PHASE DIAGRAM**



**PROPOSED PHASE DIAGRAM**

**EVP ASSIGNMENTS**

- EVA = Ø2
- EVB = Ø4
- EVC = Ø6
- EVD = Ø8



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**

1300 Clay Street, Suite 325  
Oakland, California 94612  
Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:

*(Signature)*

KEVIN G. AGUIGUI  
R.C.E. No. 048732, EXP. 9/30/22

12/19/2019 DATE



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
FILBERT STREET AT MAIN STREET

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: <i>(Signature)</i>	PROJECT NO. PW1516
SCALE: AS NOTED	DATE: 12/21/20	SHEET NO. TS-15
DRAWN BY: GMS	DESIGNED BY: ISW	CHECKED BY: EKC
CITY ENGINEER		STOCKTON, CALIFORNIA

5365-31C



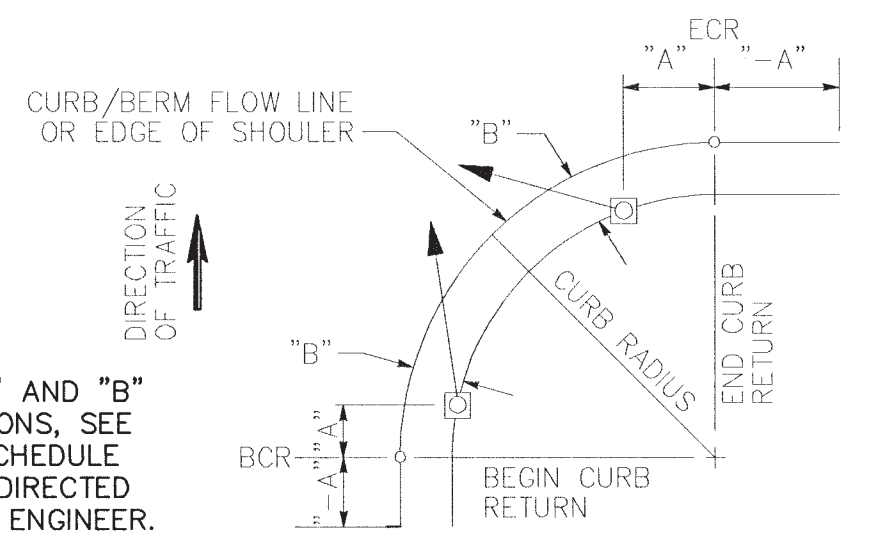
CONDUCTOR SCHEDULE												
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS											
	MAIN ST AT FILBERT ST											
	1	2	3	4	5	6	7	8				
NO. 14 CONDUCTORS												
Ø1												
Ø2	6	3	3	3	3	3	3	3				
Ø4	3						3	3				
Ø5												
Ø6	3	3										
Ø8	6	3	3	3	3		3					
Ø2P	2	2	2	2	2							
Ø4P	4	2	2	2	2	2	2					
Ø6P	4						2	2	2			
Ø8P	2	2										
Ø2 PPB	1	1	1	1								
Ø4 PPB	2	1	1	1	1	1	1	1	1			
Ø6 PPB	1						1	1				
Ø8 PPB	1	1										
PPB COMMON	2	1	1	1	1	1	1	1	1			
SPARES	6	3	3	3	3	3	3	3	3			
PEU	3											
TOTAL NO. 14	46	22	16	16	12	19	16	10				
NO. 10 CONDUCTORS												
SIGNAL COMMON	2	1	1	1	1	1	1	1	1			
TOTAL NO. 10	2	1	1	1	1	1	1	1	1			
NO. 8 CONDUCTORS												
LIGHTING (240V)		2	2	2	2	2						
120V SIGNAL SERVICE	3											
TOTAL NO. 8	3	2	2	2	2	2						
EVP CABLES												
EVA	1	1	1	1	1							
EVB	1						1	1				
EVC	1											
EVD	1	1	1	1								
TOTAL EVP CABLES	4	2	2	2	1	1	1	1				
VIDEO DETECTION CABLE**												
Ø2, Ø5	1	1	1	1	1							
Ø4	1						1					
Ø6, Ø1	1											
Ø8	1	1	1	1								
DETECTOR LOOP CABLE												
Ø2	2,2E	2,2E	2	2	2							
Ø4	1						1	1				
Ø6	2,2E						2E	2E				
Ø8	1	1	1									
APS CABLE (4C#18)												
PTZ COMMUNICATION CABLE*	1	1	1	1	1							
FIBER OPTIC CABLE												
PERCENT FILL	42	20	16	15	12	13	9	4				
CONDUIT SIZE	2-2"	3"	3"	3"	3"	3"	3"	3"				

ALL CONDUITS & CONDUCTORS ARE NEW UNLESS OTHERWISE NOTED.  
 E - DENOTES EXISTING CONDUIT OR CONDUCTORS  
 \* POWER AND DATA CABLES (PER MANUFACTURER)  
 \*\* CABLES PER MANUFACTURER

POLE AND EQUIPMENT SCHEDULE													
LOCATION	STANDARD			LOCATION		LED LUMINAIRE WATTAGE	VEHICLE SIGNAL MOUNTING		PED SIGNAL MOUNTING	APS		STREET NAME SIGN (S.N.S.) LEGEND	*SPECIAL REQUIREMENTS
	TYPE	SIGNAL MAST ARM	LUMINAIRE MAST ARM	A	B		MAST ARM	POLE		Ø	ARROW		
(A)	1-B	-	-	12'	8.1'	-	-	-	SP-2-T	8	RIGHT	-	INSTALL RELOCATED PEDESTRIAN SIGNAL HEADS FROM POLE B.
(B)	19-3-80	25'	12'	-9.3'	4.8'	-	MAS	SV-1-T	-	-	-	FILBERT ST 400 S	FURNISH AND INSTALL R10-12 SIGN AND VIDEO DETECTION CAMERA ON SIGNAL MAST ARM.
(C)	1-B	-	-	-0.5'	6.1'	-	-	TV-2-T	SP-2-T	8	RIGHT	-	
(D)	PPB POST	-	-	-4.9'	3.9'	-	-	-	-	2	LEFT	-	
(E)	15TS	-	12'	17.2'	2.85'	107W	-	TV-1-T	-	2	RIGHT	MAIN ST 2500 E	FURNISH AND INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE ARM. FURNISH AND INSTALL EVP ON Ø4 SIGNAL HEAD. FURNISH AND INSTALL STREET NAME SIGN PER CITY OF STOCKTON STANDARD DRAWING R109 (DETAIL A).
(F)	19-3-80	25'	12'	-5.2'	2.5'	107W	MAS	SV-1-T	SP-2-T	4	RIGHT	FILBERT ST 500 S	FURNISH AND INSTALL R10-12 SIGN AND VIDEO DETECTION CAMERA ON SIGNAL MAST ARM. FURNISH AND INSTALL STREET NAME SIGN PER CITY OF STOCKTON STANDARD DRAWING R-94.
(G)	15TS	-	-	-8.5'	2.7'	107W	-	TV-1-T	SP-1-T	4	RIGHT	-	
(H)	1-B	-	-	-15.5'	2.9'	-	-	TV-1-T	SP-1-T	6	LEFT	-	FURNISH AND INSTALL EVP ON Ø8 SIGNAL HEAD.
(I)	15TS	-	12'	3.3'	5'	107W	-	TV-2-T	-	6	RIGHT	MAIN ST 2400 E	FURNISH AND INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE ARM. INSTALL RELOCATED STREET NAME SIGN FROM POLE B.

\* OTHER REQUIREMENTS ARE COVERED BY NOTES, LEGEND, SPECIAL PROVISIONS AND CALTRANS STANDARD SPECIFICATIONS. FOR TYPE OF STANDARD, VEHICLE AND PEDESTRIAN MOUNTING, SEE CALTRANS STANDARD PLANS.

- E = DENOTES EXISTING EQUIPMENT
- R = DEMOTES RELOCATED EQUIPMENT
- ALL EQUIPMENT IS NEW UNLESS OTHERWISE NOTED.
- PEDESTRIAN PUSH BUTTONS SHALL MEET ADA ACCESSIBILITY GUIDELINES. MOUNTING HEIGHT OF PPB IS 40" ABOVE FINISHED SIDEWALK SURFACE.
- R10-12 M.A. SIGN SHALL BE INSTALLED 3'6" FROM END OF MAST ARM. (CENTER TO CENTER) UNLESS OTHERWISE SHOWN.
- ALL VEHICLE INDICATIONS SHALL BE 12" L.E.D.
- PEDESTRIAN PUSH BUTTON SIGNS SHALL MEET MUTCD R10-3b, UNLESS OTHERWISE INDICATED BY THE ENGINEER.
- PEDESTRIAN PUSH BUTTON SIGNS SHALL FIT ON THE 9"x12" HOUSING WITHOUT ANY MODIFICATIONS.
- PEDESTRIAN HEADS SHALL BE COUNTDOWN TYPE.
- MAST ARM STREET NAME SIGNS ARE TO BE PER STOCKTON STANDARD DRAWING R-94.
- 1-B OR 15TS STREET NAME SIGNS ARE TO BE PER STOCKTON STANDARD DRAWING R-109 (DETAIL A).



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
 (CALTRANS STANDARD PLAN ES-4C)

DETECTOR TABLE			
DETECTOR NO.	Ø	NUMBER OF DETECTORS	DETECTOR TYPE
1	2A	1	
2	2B	1	
3	4A	1	
4	6A	1	
5	6B	1	
6	8A	2	
7	2C	2	BIKE
8	4B	1	BIKE
9	6C	2	BIKE
10	8B	2	BIKE
11	2D	1	SAMPLER
12	2E	1	SAMPLER
13	4C	1	SAMPLER
14	6D	1	SAMPLER
15	6E	1	SAMPLER
16	8C	1	SAMPLER



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIQUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL SCHEDULE**  
 FILBERT STREET AT MAIN STREET SCH

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019  
 SCALE: AS NOTED  
 DRAWN BY: GMS  
 DESIGNED BY: JSW  
 CHECKED BY: EKC

APPROVED BY:   
 DATE: 12/31/20  
 TITLE: ENGINEER  
 STOCKTON, CALIFORNIA

PROJECT NO. PW1516  
 SHEET NO. TS-15B  
 SHEET 33 OF 36

5365-32C

Dec 19, 2019 - 12:26pm - USER: Joseph.eroop  
 K:\Work\1516\1516020017 - Stockton BRT V - R04\04\_CADD\Sheet\1516 FILBERT STREET AT MAIN STREET SCH.dwg

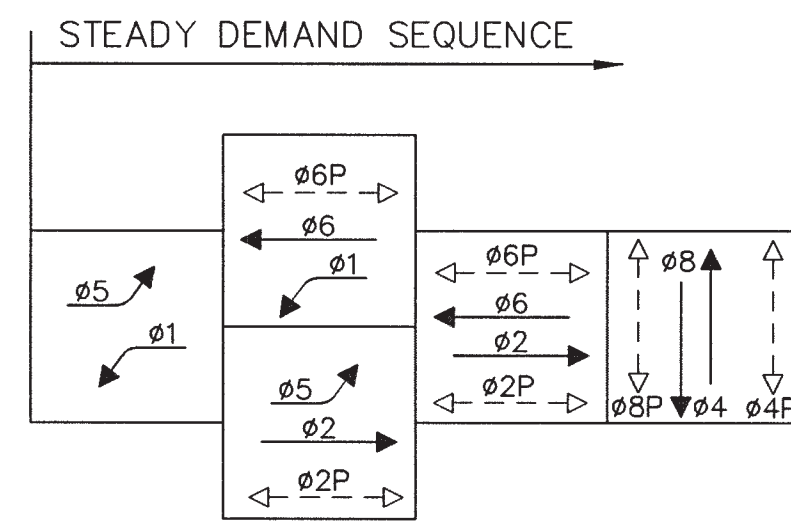
**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC-2 CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 9 REMOVE AND SALVAGE EXISTING TYPE P TS1 TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. FURNISH AND INSTALL NEW TYPE P TS2 TRAFFIC SIGNAL CONTROLLER CABINET ON EXISTING FOUNDATION. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 14 REMOVE AND DISPOSE OF EXISTING PULL BOX. FURNISH AND INSTALL No. 5 PULL BOX.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 17 REMOVE EXISTING 8" SIGNAL HEADS AND TV-2-T MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW TV-2-T MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.

- 24 FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 25 REMOVE AND SALVAGE EXISTING STREET NAME SIGNS FROM EXISTING POST. REMOVE AND RELOCATE EXISTING POST TO NEW LOCATION AS SHOWN ON PLAN.
- 27 REMOVE AND SALVAGE EXISTING PULL BOX. FURNISH AND INSTALL No. 6 PULL BOX.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 33 REMOVE EXISTING 8" SIGNAL HEADS AND SV-2-TB MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL TWO NEW 12" 3-SECTION SIGNAL HEADS ON NEW SV-2-TB MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.
- 46 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS. FURNISH AND INSTALL TWO (2) ACCESSIBLE PEDESTRIAN SIGNAL SYSTEMS.
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.

CONDUCTOR SCHEDULE									
CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS								
	1	2	3	4	5	6	7	8	9
<b>NO. 14 CONDUCTORS</b>									
Ø1	6	3	3	3	3	3	3	3	3
Ø2	3	3	3	3					
Ø4	3			3	3	3	3	3	3
Ø5	3			3	3				
Ø6	3			3	3	3	3	3	3
Ø8	3	3	3						
Ø2P	2	2	2	2					
Ø4P	4	2			2	2	2		
Ø6P	2			2	2	2	2	2	2
Ø8P	4	2	2	2	2	2	2	2	2
Ø2 PPB	1	1	1						
Ø4 PPB	1				1	1			
Ø6 PPB	1			1	1	1	1	1	1
Ø8 PPB	2	1	1	1	1	1	1	1	1
PEU	3								
<b>SPARES</b>									
	6	6	6	6	6	6	6	6	6
<b>TOTAL NO. 14</b>	<b>47</b>	<b>23</b>	<b>21</b>	<b>17</b>	<b>27</b>	<b>27</b>	<b>23</b>	<b>21</b>	<b>21</b>
<b>NO. 12 CONDUCTORS</b>									
PPB COMMON	2	1	1	1	1	1	1	1	1
<b>TOTAL NO. 12</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>
<b>NO. 10 CONDUCTORS</b>									
LIGHTING (240V)	4	2	2	2	2	2	2	2	2
SIGNAL COMMON	2	1	1	1	1	1	1	1	1
<b>TOTAL NO. 10</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>DETECTOR LEAD-IN CABLES</b>									
Ø1	1			1	1				
Ø2	3	1	1	1					
Ø4	1	1							
Ø5	1	1	1	1					
Ø6	3			3	2	2	2	2	2
Ø8	1			1	1	1	1	1	1
<b>TOTAL DLC</b>	<b>10</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>2</b>
<b>EVP CABLES</b>									
EVA	1N								
EVB	1N				1N	1N	1N		
EVC	1N				1N	1N	1N	1N	1N
EVD	1N	1N	1N						
<b>TOTAL EVP CABLES</b>	<b>4N</b>	<b>1N</b>	<b>1N</b>		<b>2N</b>	<b>2N</b>	<b>2N</b>	<b>1N</b>	<b>1N</b>
<b>APS CABLE (4C#18)</b>									
FIBER OPTIC CABLE	1				2N	2N	2N	2N	2N
PTZ COMMUNICATION CABLE*	1				1	1	1		
<b>PERCENT FILL</b>	<b>28</b>	<b>18</b>	<b>15</b>	<b>13</b>	<b>27</b>	<b>25</b>	<b>23</b>	<b>17</b>	<b>17</b>
<b>CONDUIT SIZE</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>	<b>2-2.5"</b>

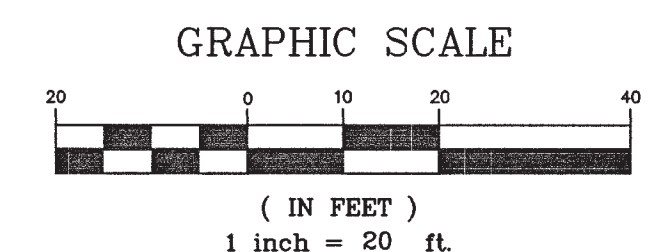
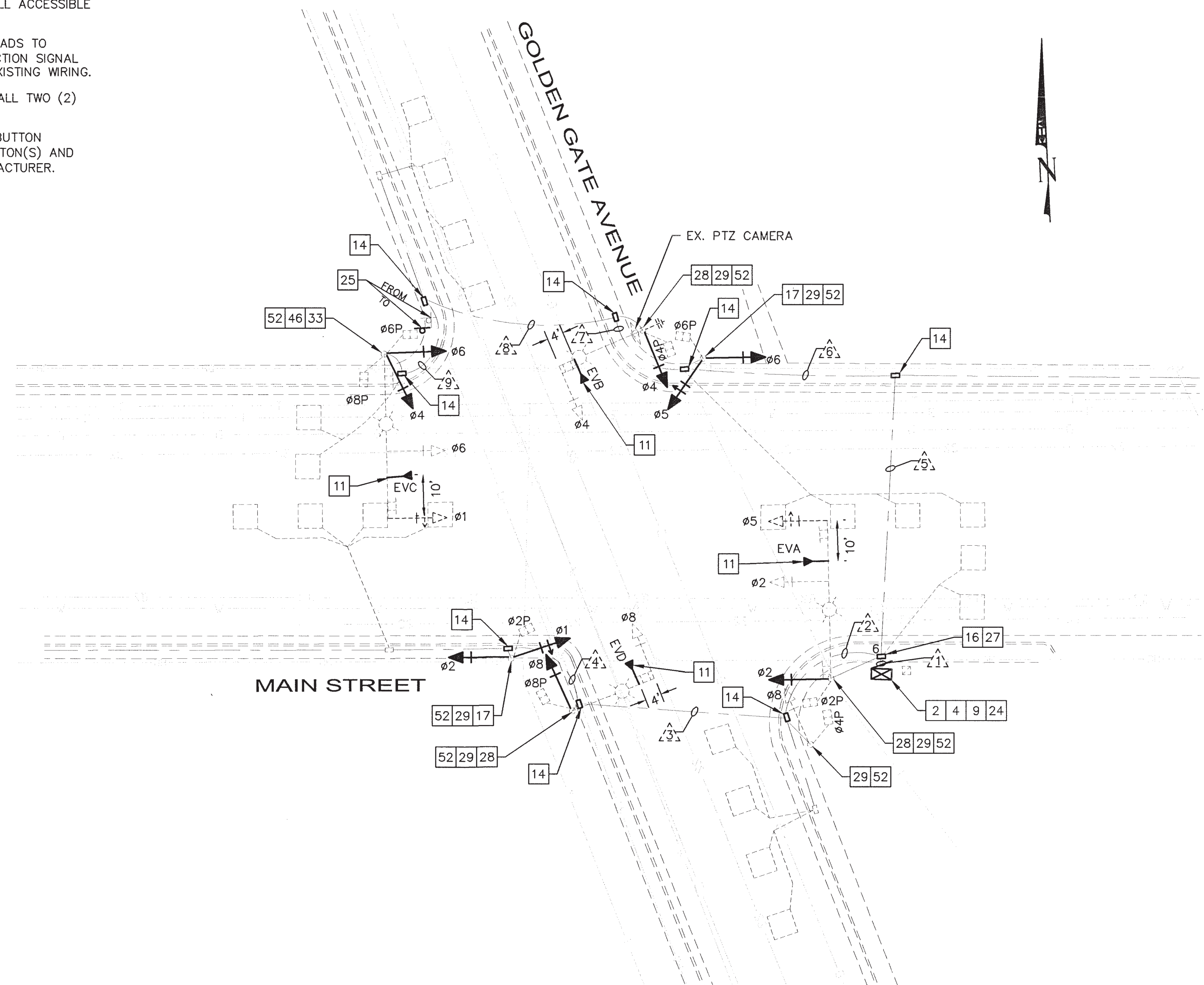
EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR  
 \* POWER AND DATA CABLES (PER MANUFACTURER)



EXISTING PHASE DIAGRAM

**EVP ASSIGNMENTS**

- EVA = Ø2 + Ø5
- EVB = Ø4
- EVC = Ø6 + Ø1
- EVD = Ø8



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
  
 KEVIN G. AGUIQUI  
 R.C.E. No. 048732, EXP. 9/30/22  
 DATE: 12/19/2019



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 MAIN STREET AT GOLDEN GATE AVENUE

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019  
 SCALE: AS NOTED  
 DRAWN BY: GMS  
 DESIGNED BY: ISW  
 CHECKED BY: EKC

APPROVED BY:   
 DATE: 12/19/2019  
 CITY ENGINEER  
 STOCKTON, CALIFORNIA

PROJECT NO. PW1516  
 SHEET NO. TS-16  
 SHEET 34 OF 38

5365-33C

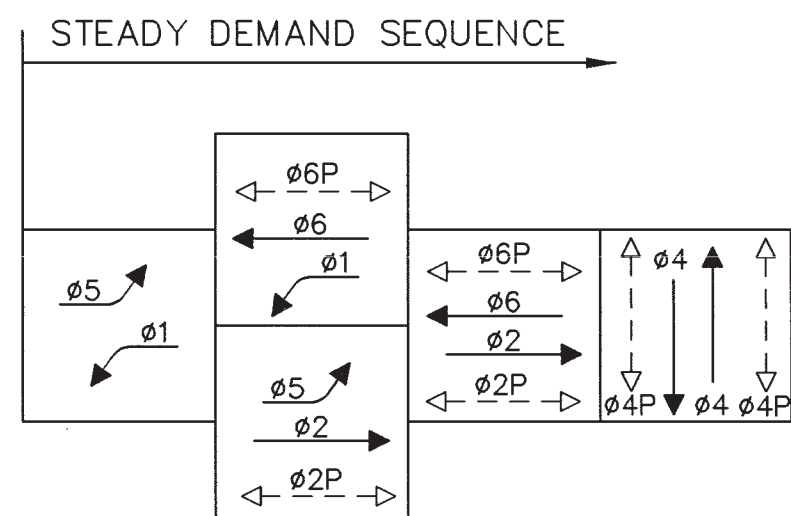
**CONSTRUCTION NOTES:** (THIS SHEET ONLY)

- 2 FURNISH AND INSTALL OPTICOM MODEL 764 MULTIMODE PHASE SELECTOR IN TRAFFIC SIGNAL CONTROLLER CABINET.
- 4 REMOVE AND SALVAGE EXISTING TRAFFIC SIGNAL CONTROLLER TO CORPORATION YARD. FURNISH AND INSTALL NEW ATC-6XZ CONTROLLER WITH LATEST VERSION D4 FIRMWARE IN CONTROLLER CABINET.
- 5 FURNISH AND INSTALL IP PTZ CAMERA ON LUMINAIRE ARM. SEE DETAIL D, ON SHEET DT-2, FOR MOUNTING DETAILS.
- 11 FURNISH AND INSTALL OPTICOM MODEL 721 OPTICAL DETECTOR ON TRAFFIC SIGNAL MAST ARM. CONNECT TO EVP CABLE AND ORIENT TO SIGNAL PHASE AS INDICATED ON PLAN. SEE DETAIL A, ON SHEET DT-1, FOR MOUNTING DETAILS.
- 16 FIBER TO BE COILED IN PULL BOX DURING CONSTRUCTION AT TRAFFIC SIGNAL CONTROLLER CABINET. CONTRACTOR TO REINSTALL FIBER OPTIC CABLE INTO NEW CABINET AFTER CABINET IS COMPLETE. ANY DAMAGE TO EXISTING FIBER OPTIC CABLES SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. REFER TO SPECIAL PROVISIONS SECTION 77-1.24 (FIBER OPTIC CABLING).
- 17 REMOVE EXISTING 8" SIGNAL HEADS AND TV-2-T MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW TV-2-T MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.
- 20 RE-TERMINATE SIGNAL AND PEDESTRIAN FIELD WIRING AND DLCS IN THE CONTROLLER CABINET FOR REVISED PHASING AS SHOWN ON PLAN.
- 21 FURNISH AND INSTALL NEW PEDESTRIAN PUSH BUTTON POST WITH ONE ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 24 FURNISH AND INSTALL MANAGED FIBER ETHERNET SWITCH IN THE CONTROLLER CABINET. FURNISH ALL CABLING AND MAKE ALL CONNECTIONS. SEE SPECIAL PROVISIONS AND SYSTEM DIAGRAMS, ON SHEETS SY-1 AND SY-2, FOR DETAILS.
- 26 REORIENT AND REWIRE EXISTING PEDESTRIAN SIGNAL HEAD TO SIGNAL PHASE AS INDICATED ON PLAN.

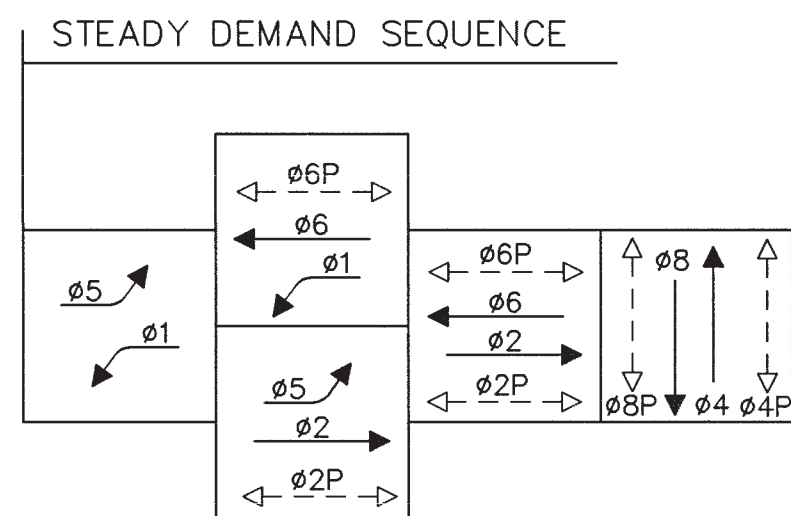
- 27 REMOVE AND SALVAGE EXISTING PULL BOX. FURNISH AND INSTALL No. 6 PULL BOX.
- 28 REMOVE EXISTING 8" SIGNAL HEAD AND SV-1-T MOUNTING FRAME. SIGNAL HEAD TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL NEW 12" 3-SECTION SIGNAL HEAD ON NEW SV-1-T MOUNTING FRAME. CONNECT NEW SIGNAL HEAD TO EXISTING WIRING.
- 29 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTON. FURNISH AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL SYSTEM.
- 30 REMOVE AND SALVAGE EXISTING TYPE P TRAFFIC SIGNAL CONTROLLER CABINET TO CORPORATION YARD. MODIFY EXISTING FOUNDATION PER DETAIL I, ON SHEET DT-4. FURNISH AND INSTALL NEW TYPE P TRAFFIC SIGNAL CONTROLLER CABINET ON MODIFIED FOUNDATION. TERMINATE ALL WIRING INTO NEW CABINET. RELOCATE ALL EXISTING EQUIPMENT INTO NEW CABINET UNLESS OTHERWISE NOTED.
- 33 REMOVE EXISTING 8" SIGNAL HEADS AND SV-2-TB MOUNTING FRAME. SIGNAL HEADS TO BECOME PROPERTY OF CONTRACTOR. FURNISH AND INSTALL TWO NEW 12" 3-SECTION SIGNAL HEADS ON NEW SV-2-TB MOUNTING FRAME. CONNECT NEW SIGNAL HEADS TO EXISTING WIRING.
- 34 FURNISH AND INSTALL 4" DIAMETER PEDESTRIAN PUSH BUTTON POST WITH TWO (2) ACCESSIBLE PEDESTRIAN SIGNAL SYSTEMS.
- 39 REMOVE AND SALVAGE EXISTING PEDESTRIAN PUSH BUTTONS. PATCH HOLE IN SIGNAL POLE.
- 47 SPLICE  $\emptyset$  VEHICLE CONDUCTORS IN THE PULL BOX AND REWIRE SIGNAL HEAD TO  $\emptyset$ .
- 52 CONNECT ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) TO EXISTING PUSH BUTTON CONDUCTORS. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.
- 53 FURNISH AND INSTALL NEW PUSH BUTTON CONDUCTORS BETWEEN ACCESSIBLE PEDESTRIAN SIGNAL (APS) SYSTEM(S) AND CABINET. FURNISH AND INSTALL NEW APS CONDUCTORS BETWEEN PUSH BUTTON(S) AND CORRESPONDING PEDESTRIAN SIGNAL HEAD(S) AS REQUIRED BY THE APS MANUFACTURER.

CONDUCTOR DESIGNATION	NUMBER OF CONDUCTORS										
	MAIN ST AT NETHERTON AVE										
	1	2	3	4	5	6	7	8	9	10	11
<b>NO. 14 CONDUCTORS</b>											
$\emptyset 1$											
$\emptyset 2$	3										
$\emptyset 4$	3	3	3								
$\emptyset 5$	3	3	3	3							
$\emptyset 6$	3	3	3	3							
$\emptyset 8$	3	3	3								
$\emptyset 2P$	2										
$\emptyset 4P$	2	2	2								
$\emptyset 6P$	4	4	2	2							
$\emptyset 8P$	4	2									
$\emptyset 2$ PPB	2										
$\emptyset 4$ PPB	1	1	1	1							
$\emptyset 6$ PPB	2	2	1								
$\emptyset 8$ PPB	1	1									
<b>SPARES</b>											
	3	3	3	3							
<b>TOTAL NO. 14</b>	<b>28</b>	<b>24</b>	<b>18</b>	<b>12</b>	<b>3</b>	<b>25</b>	<b>24</b>	<b>21</b>	<b>11</b>		
<b>NO. 12 CONDUCTORS</b>											
PPB COMMON	1	1	1	1							
<b>TOTAL NO. 12</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>							
<b>NO. 10 CONDUCTORS</b>											
LIGHTING (240V)	2	2	2	2							
SIGNAL COMMON	1	1	1	1							
<b>TOTAL NO. 10</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>2</b>
<b>DETECTOR LEAD-IN CABLES</b>											
$\emptyset 1$	1	1	1	1							
$\emptyset 2$	2										
$\emptyset 4$	1										
$\emptyset 5$	1										
$\emptyset 6$	2	2	2	2							
$\emptyset 8$	1	1									
<b>TOTAL DLC</b>	<b>8</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>4</b>						
<b>EVP CABLES</b>											
EVA	1										
EVB	1	1	1								
EVC	1										
EVD	1										
<b>TOTAL EVP CABLES</b>	<b>4</b>	<b>1</b>	<b>1</b>								
APS CABLE (4C#18)		2	2								
FIBER OPTIC CABLE	1										
PTZ COMMUNICATION CABLE*	1										
<b>PERCENT FILL</b>	<b>43</b>	<b>34</b>	<b>44</b>	<b>32</b>	<b>13</b>	<b>12</b>	<b>8</b>	<b>13</b>	<b>8</b>	<b>8</b>	<b>19</b>
<b>CONDUIT SIZE</b>	<b>2-2"</b>	<b>2"</b>	<b>1.5"</b>	<b>1.5"</b>	<b>2"</b>	<b>3-1.5"</b>	<b>3-1.5"</b>	<b>3-1.5"</b>	<b>3-1.5"</b>	<b>3-1.5"</b>	<b>3-1.5"</b>

EXISTING CONDUITS & CONDUCTORS TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.  
 N - DENOTES NEW CONDUCTOR OR CONDUIT  
 R - DENOTES REMOVE UNUSED CONDUCTORS FROM EXISTING CONDUIT  
 \* POWER AND DATA CABLES (PER MANUFACTURER)



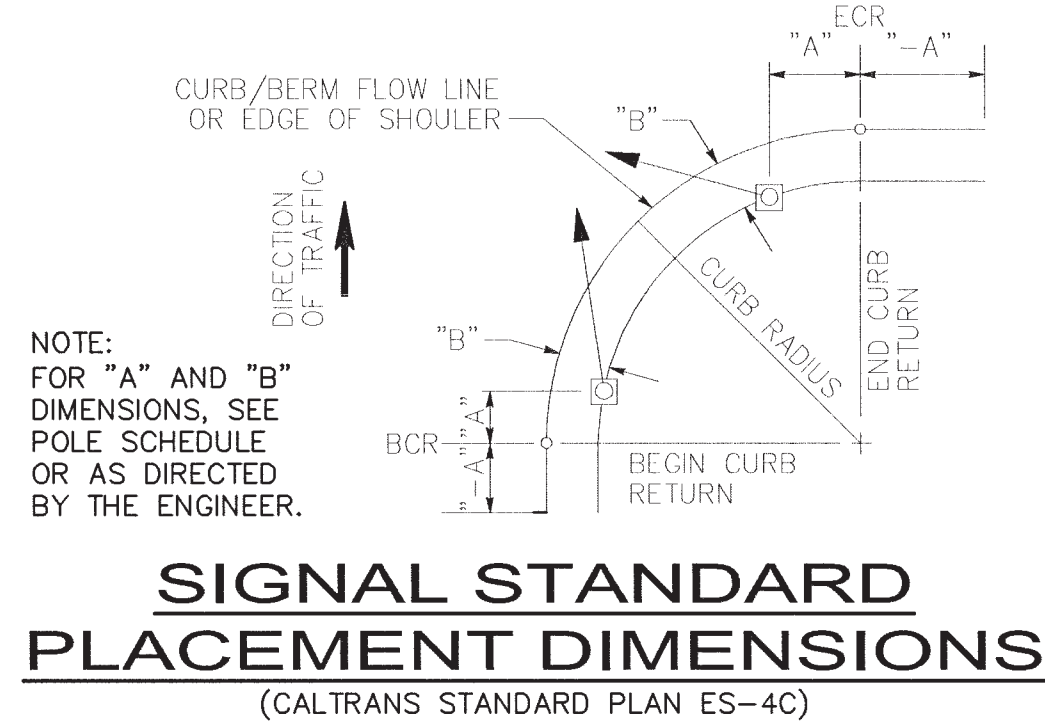
**EXISTING PHASE DIAGRAM**



**PROPOSED PHASE DIAGRAM**

**EVP ASSIGNMENTS**

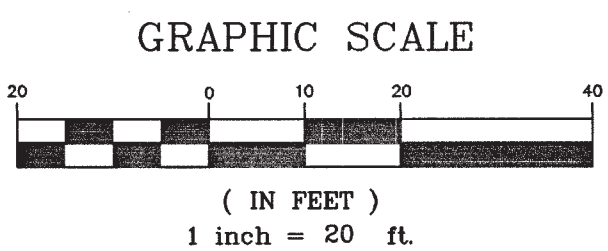
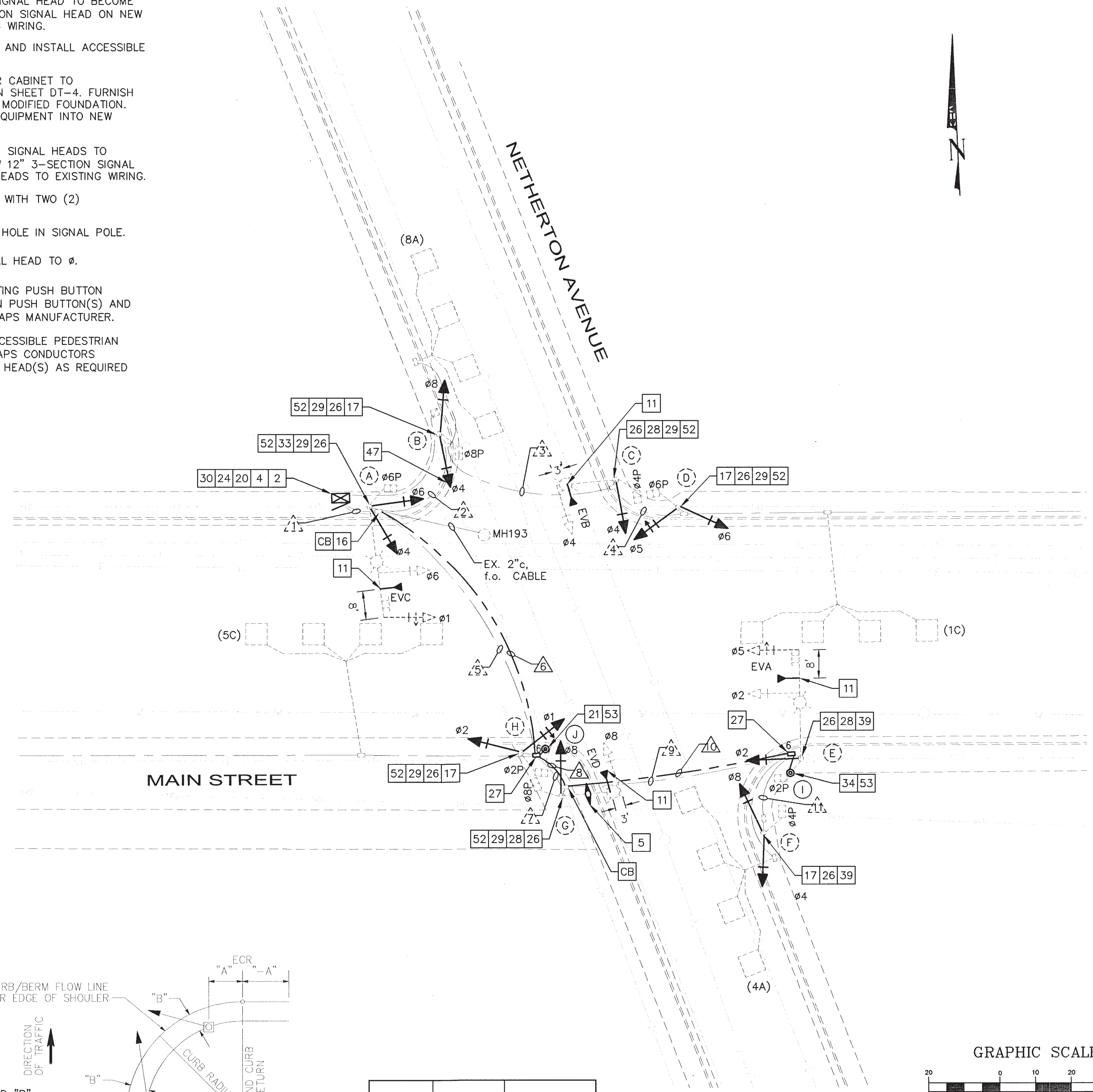
- EVA =  $\emptyset 2 + \emptyset 5$
- EVB =  $\emptyset 4$
- EVC =  $\emptyset 6 + \emptyset 1$
- EVD =  $\emptyset 8$



**SIGNAL STANDARD PLACEMENT DIMENSIONS**  
(CALTRANS STANDARD PLAN ES-4C)

NOTE:  
 FOR "A" AND "B" DIMENSIONS, SEE POLE SCHEDULE OR AS DIRECTED BY THE ENGINEER.

POLE	TYPE	LOCATION	
		A	B
1	PPB POST	7.1'	6.7'
J	PPB POST	-0.7'	1.3'



BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

**TRAFFIC SIGNAL MODIFICATION**  
 MAIN STREET AT NETHERTON AVENUE

DEPARTMENT OF PUBLIC WORKS  
 CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	SCALE: AS NOTED	PROJECT NO. PW1516
DRAWN BY: GMS	DESIGNED BY: ISW	CHECKED BY: EKC
CITY ENGINEER	DATE: 12/19/2019	SHEET NO. TS-17
STOCKTON, CALIFORNIA		SHEET 35 OF 36



DESIGNED UNDER THE SUPERVISION OF:  
 KEVIN G. AGUIGUI  
 R.C.E. No. 048732, EXP. 9/30/22

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE



Dec 19, 2019 - 12:49pm - US28 - hawks@kvh.com  
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5365.39C

LOCATION	PROPOSED EQUIPMENT												
	EVP/TSP DETECTOR	PHASE SELECTOR	AUXILIARY PANEL*	CABINET TYPE	CONTROLLER	MANAGED FIBER ETHERNET SWITCH	IP PTZ CAMERA	FIBER VIDEO/DATA MODEM (8 PORT)	12" SIGNAL HEAD	SFP (RJ45) WITH CAT5E (RED)	SFP (SMFO RECEIVE)	SFP (SMFO TRANSMIT)	APS
WEBER AVENUE / CENTER STREET				P	ATC eX2	1							8
WEBER AVENUE / EL DORADO STREET	3	1	1		ATC eX2					1			8
WEBER AVENUE / SAN JOAQUIN STREET	4	1		M (TALL)	ATC eX2					1			8
WEBER AVENUE / SUTTER STREET			1		ATC eX2								8
MINER AVENUE / AIRPORT WAY			1			1	1		4	1	1	1	8
MINER AVENUE / WILSON WAY					ATC eX2				12				8
FREMONT STREET / WILSON WAY			1		ATC eX2				3				8
FREMONT STREET / EASTLAND DRIVE	4	1		P	ATC eX2	1	1		8	2	1	1	
FREMONT STREET / E STREET	3	1		P	ATC eX2	1	1		3	2	1	1	4
FREMONT STREET / FILBERT STREET	4	1		P	ATC eX2	1		1	3	1	1	1	8
FILBERT STREET / MINER AVENUE													
FILBERT STREET / MYRTLE (WEBER)													
FILBERT STREET / MYRTLE (SR4 WB)													
FILBERT STREET / MARKET STREET (SR4 EB)													
FILBERT STREET / LAFAYETTE STREET	4	1		P	ATC eX2	1	1		14	1	1	1	8
FILBERT STREET / MAIN STREET	4	1		P	ATC eX2	1			7	1	1	1	8
MAIN STREET / GOLDEN GATE AVENUE	4	1		P	ATC eX2	1			9	1			8
MAIN STREET / NETHERTON AVENUE	4	1		P	ATC eX2	1	1		13	1	1	1	8
CITY OF STOCKTON TMC						2		1			1	1	
TOTALS:	34	9	4	9	13	11	5	2	76	12	8	8	100

NOTE: THIS LIST IS FOR EQUIPMENT ONLY.

\* CITY-FURNISHED, CONTRACTOR INSTALLED (SEE TECHNICAL SPECIAL PROVISIONS SECTION 6-1.02)

BRT PHASE V ON WEBER AVENUE, MINER AVENUE, WILSON WAY, FREMONT STREET, FILBERT STREET, AND MAIN STREET CORRIDORS

SUMMARY EQUIPMENT LIST

DEPARTMENT OF PUBLIC WORKS  
CITY OF STOCKTON, CALIFORNIA

DATE: DECEMBER 2019	APPROVED BY: <i>[Signature]</i>	PROJECT NO. PW1516
SCALE: NONE	DATE: 12/19/2019	SHEET NO. EQ-1
DRAWN BY: GMS	CITY ENGINEER: <i>[Signature]</i>	SHEET 36 OF 38
DESIGNED BY: ISW	STOCKTON, CALIFORNIA	
CHECKED BY: EKC		

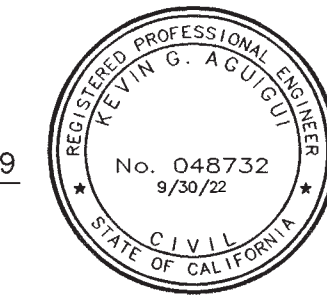
5365.35C



NO.	DESCRIPTION	CHECKED BY	CITY APPROVAL	
			APPROVED BY	DATE

**Kimley»Horn**  
 1300 Clay Street, Suite 325  
 Oakland, California 94612  
 Phone: (510) 625-0712

DESIGNED UNDER THE SUPERVISION OF:  
*[Signature]* 12/19/2019  
 KEVIN G. AGUIGI  
 R.C.E. No. 048732, EXP. 9/30/22



CA: 1-800-227-2600  
 CALL TWO WORKING DAYS BEFORE YOU DIG  
 USER: P:\proj\2019\BRT\_V\CA\01\_CADD\Sheet\_36\_QUANTITIES.dwg  
 PLOT DATE: 12/19/2019 10:58:00 AM