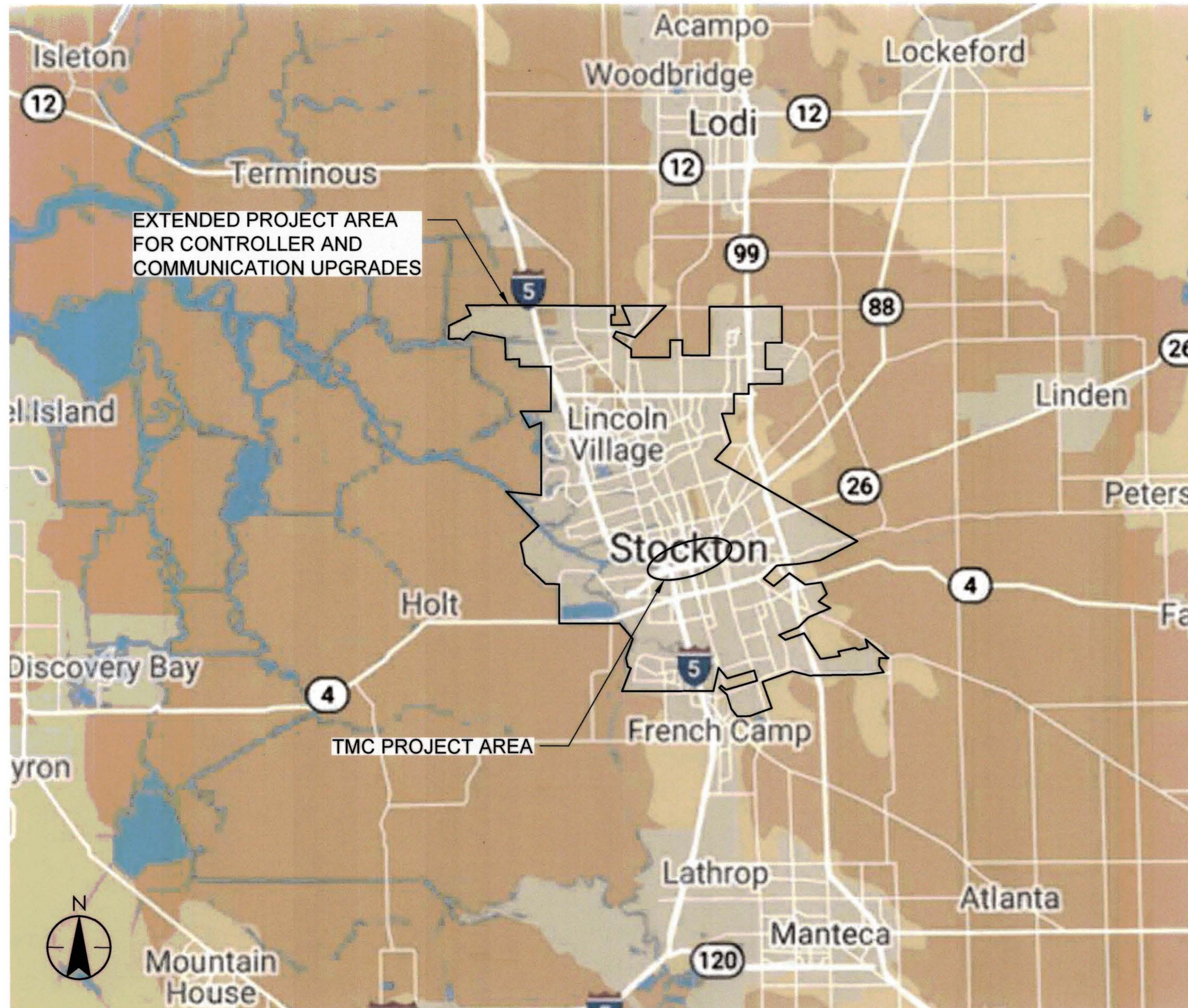


TRANSPORTATION MANAGEMENT CENTER EQUIPMENT UPGRADE

CITY OF STOCKTON, CALIFORNIA
 CITY PROJECT NO. WT21010/FEDERAL PROJECT NO. CML-5008(191)

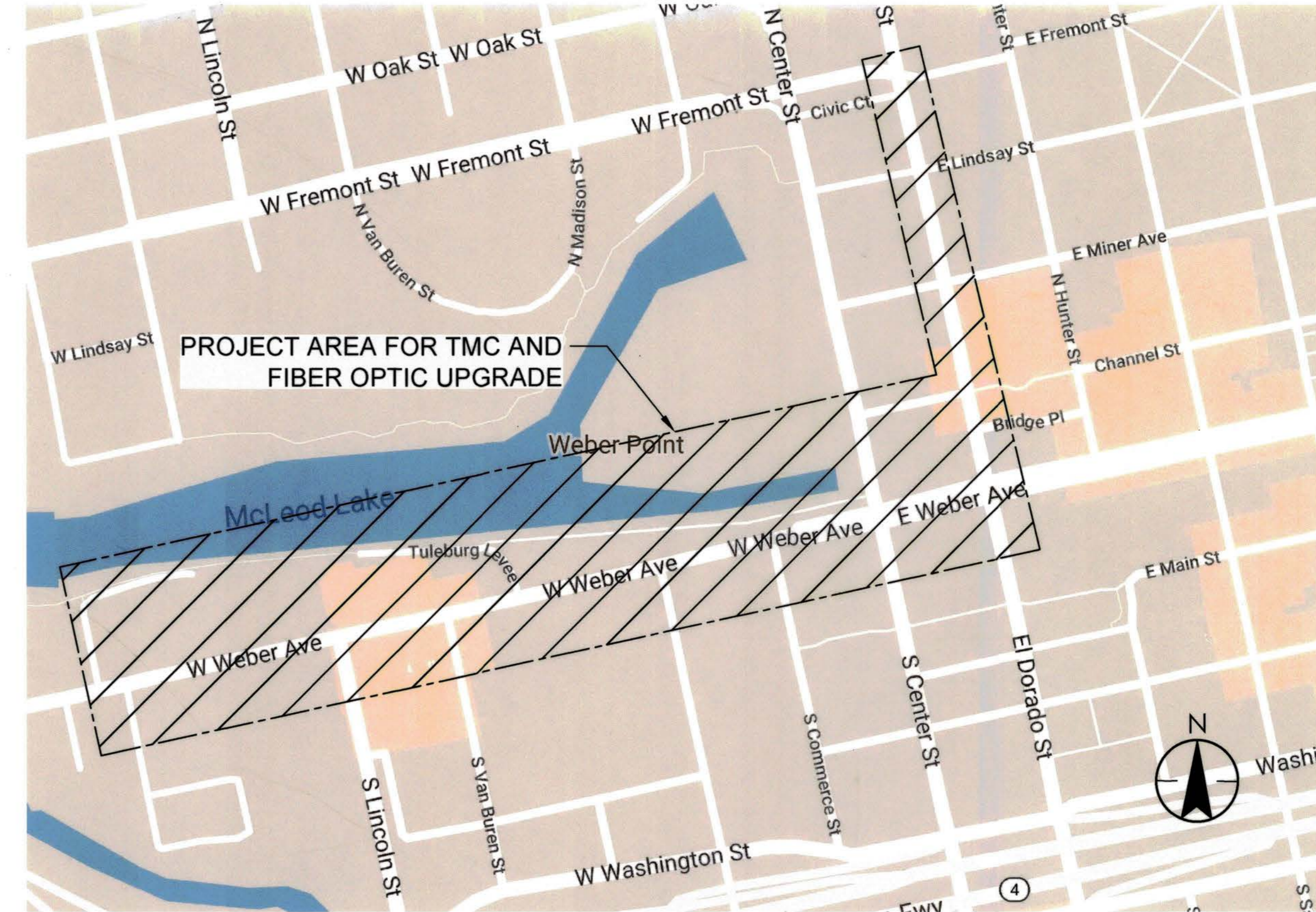


REGIONAL MAP

APPLICABLE CODES

CONSTRUCTION WILL COMPLY WITH THE FOLLOWING CODES AND ORDINANCES AS AMENDED BY THE STATE OF CALIFORNIA AND LOCAL JURISDICTION.

- 2019 CALIFORNIA ADMINISTRATIVE CODE, CCR, TITLE 24, PART 1
- 2019 CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2 (2V) - CHAPTER 7A
- 2019 CALIFORNIA BUILDING CODE, CCR, TITLE 24, PART 2 (2V)
- 2019 CALIFORNIA BUILDING CODE, CCR, TITLE 14
- 2019 CALIFORNIA ENERGY CODE, CCR, TITLE 24, PART 6
- 2019 CALIFORNIA ELECTRICAL CODE (CEC), CCR, TITLE 24, PART 3
- 2019 CALIFORNIA MECHANICAL CODE (CMC), CCR, TITLE 24, PART 4
- 2019 CALIFORNIA PLUMBING CODE (CPC), CCR, TITLE 24, PART 5
- 2019 CALIFORNIA FIRE CODE, CCR, TITLE 24, PART 9
- 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
- 2019 CALIFORNIA REFERENCED STANDARDS, CCR, TITLE 24, PART 12
- 2019 TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
- 2018 STOCKTON MUNICIPAL CODE

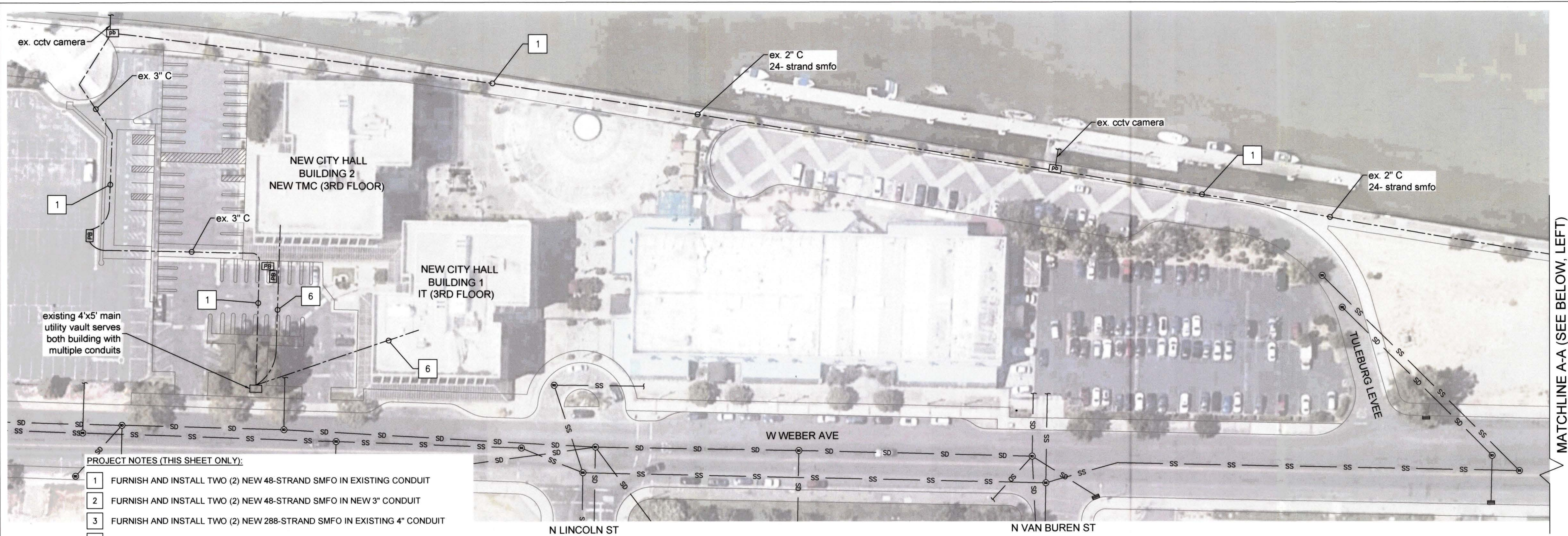


VICINITY MAP

INDEX OF SHEETS		
DWG No.	SHEET No.	DESCRIPTION
TT-1	1	TITLE SHEET, LOCATION MAP & REGIONAL MAP
GN-1	2	CITY STANDARD GENERAL NOTES
FO-1	3	FIBER OPTIC PLAN: WEBER AVENUE
FO-2	4	FIBER OPTIC PLAN: EL DORADO STREET
FP-1	5	FLOOR PLAN DESIGN: TMC VIDEO WALL & SCREEN DETAILS
FP-2	6	FLOOR PLAN DESIGN: TRAFFIC MANAGEMENT CENTER LAYOUT
FP-3	7	FLOOR PLAN DESIGN: TRAFFIC SERVERS/STORAGE ROOM
SB-1	8	SEB FLOOR PLAN DESIGN: EXISTING GROUND FLOOR
SB-2	9	SEB FLOOR PLAN DESIGN: PROPOSED THIRD FLOOR
SB-3	10	SEB FLOOR PLAN DESIGN: OLD TMC/SERVER ROOM
SB-4	11	SEB OLD TMC ROOM RACK ELEVATION
SB-5	12	SEB FLOOR PLAN: EXISTING ELECTRICAL PANELS
VW-1	13	VIDEOWALL LAYOUT
FL-1	14	FIBER OPTIC NETWORK LAYOUT
FL-2	15	TYPICAL EXISTING FIELD FIBER NETWORK ARCHITECTURE
TM-1	16	TRAFFIC SIGNAL EQUIPMENT UPGRADE INVENTORY
TM-2	17	TRAFFIC SIGNAL EQUIPMENT UPGRADE INVENTORY
D-1	18	TRAFFIC SIGNAL CABINET MODIFICATIONS DETAILS

BENCH MARK	REFERENCE	NO.	REVISION	BY	APP.	
FINAL		DESIGNED	K. BEHBAHANI			
		DRAWN	R. SABINIANO			
		CHECKED	J. BHATTACHARYA			
		DATE	5-5-2023	SCALE	N/A	
STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		STOCKTON TMC EQUIPMENT UPGRADES		APPROVED BY: <i>[Signature]</i> DATE: 9/6/23		
TITLE SHEET, LOCATION MAP & REGIONAL MAP				SHEET 1 OF 18		
				TT-1		

5544C



MATCHLINE A-A (SEE BELOW, LEFT)

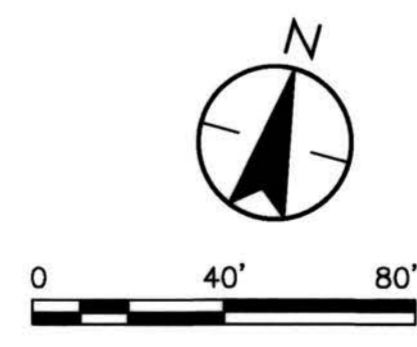
- PROJECT NOTES (THIS SHEET ONLY):**
- 1 FURNISH AND INSTALL TWO (2) NEW 48-STRAND SMFO IN EXISTING CONDUIT
 - 2 FURNISH AND INSTALL TWO (2) NEW 48-STRAND SMFO IN NEW 3" CONDUIT
 - 3 FURNISH AND INSTALL TWO (2) NEW 288-STRAND SMFO IN EXISTING 4" CONDUIT
 - 4 PROTECT-IN-PLACE EXISTING 72-STRAND SMFO
 - 5 IDENTIFY UP TO 12 LIVE STRANDS AND REMOVE TWO (2) EXISTING 240-STRAND MMFO
 - 6 FURNISH AND INSTALL ONE (1) NEW 48-STRAND SMFO IN EXISTING CONDUIT
 - 7 INSTALL CONDUIT INTO EXISTING PULL BOX/ELECTRIC MANHOLE

MATCHLINE A-A (SEE ABOVE, RIGHT)

MATCHLINE B-B (SEE SHEET FO-2)

LEGEND:

- EXISTING TRAFFIC VAULT/ELECTRIC VAULT
- EXISTING SANITARY MANHOLE
- EXISTING STORM DRAIN MANHOLE/CLEANOUT
- EXISTING AT&T MANHOLE
- EXISTING DRAIN INLET
- EXISTING ELECTRIC CABINET
- EXISTING ELECTRIC MANHOLE
- EXISTING PULLBOX



NOTES:

1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



FINAL				STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT STOCKTON TMC EQUIPMENT UPGRADES FIBER OPTIC PLAN: WEBER AVENUE	APPROVED BY: CITY ENGINEER DATE: 9/6/23 SHEET: 3 OF 18 CASE:
BENCH MARK REFERENCE		NO. REVISED BY APP. DESIGNED: C. HIGBEE DRAWN: R. SABINIANO CHECKED: J. BHATTACHARYA DATE: 5-5-2023 SCALE: 1" = 40'			

5544.2C



MATCHLINE B-B (SEE SHEET FO-1)

PROJECT NOTES (THIS SHEET ONLY):

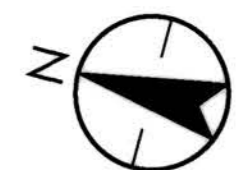
- 1 FURNISH AND INSTALL TWO (2) NEW 288-STRAND SMFO IN EXISTING 4" CONDUIT BETWEEN CITY MH #1 AND SEB ROOM 301.
- 2 PROTECT-IN-PLACE EXISTING 72-STRAND SMFO
- 3 IDENTIFY UP TO 12 LIVE STRADS AND REMOVE TWO (2) EXISTING 240-STRAND MMFO BETWEEN CITY HALL BASEMENT AND IT'S IDF ROOM SEB 3RD FLOOR
- 4 MAINTAIN 100' OF EXISTING FIBER CABLE FOR SPLICING (TO BE DONE BY OTHERS)

GENERAL NOTES (THIS SHEET ONLY):

- 1. CONTRACTOR TO WORK WITH CITY IT TO TRANSFER EXISTING LIVE CONNECTION USING 2 STRANDS OF THE EXISTING 48 MMFO STRAND TO THE EXISTING 24 SMFO STRANDS PRIOR TO CUTTING THE MMFO CABLE.

LEGEND:

- EXISTING TRAFFIC VAULT/ELECTRIC VAULT
- EXISTING SANITARY MANHOLE
- EXISTING STORM DRAIN MANHOLE/CLEANOUT
- EXISTING DRAIN INLET
- ELECTRIC CABINET
- EXISTING CITY MANHOLE
- EXISTING PULLBOX

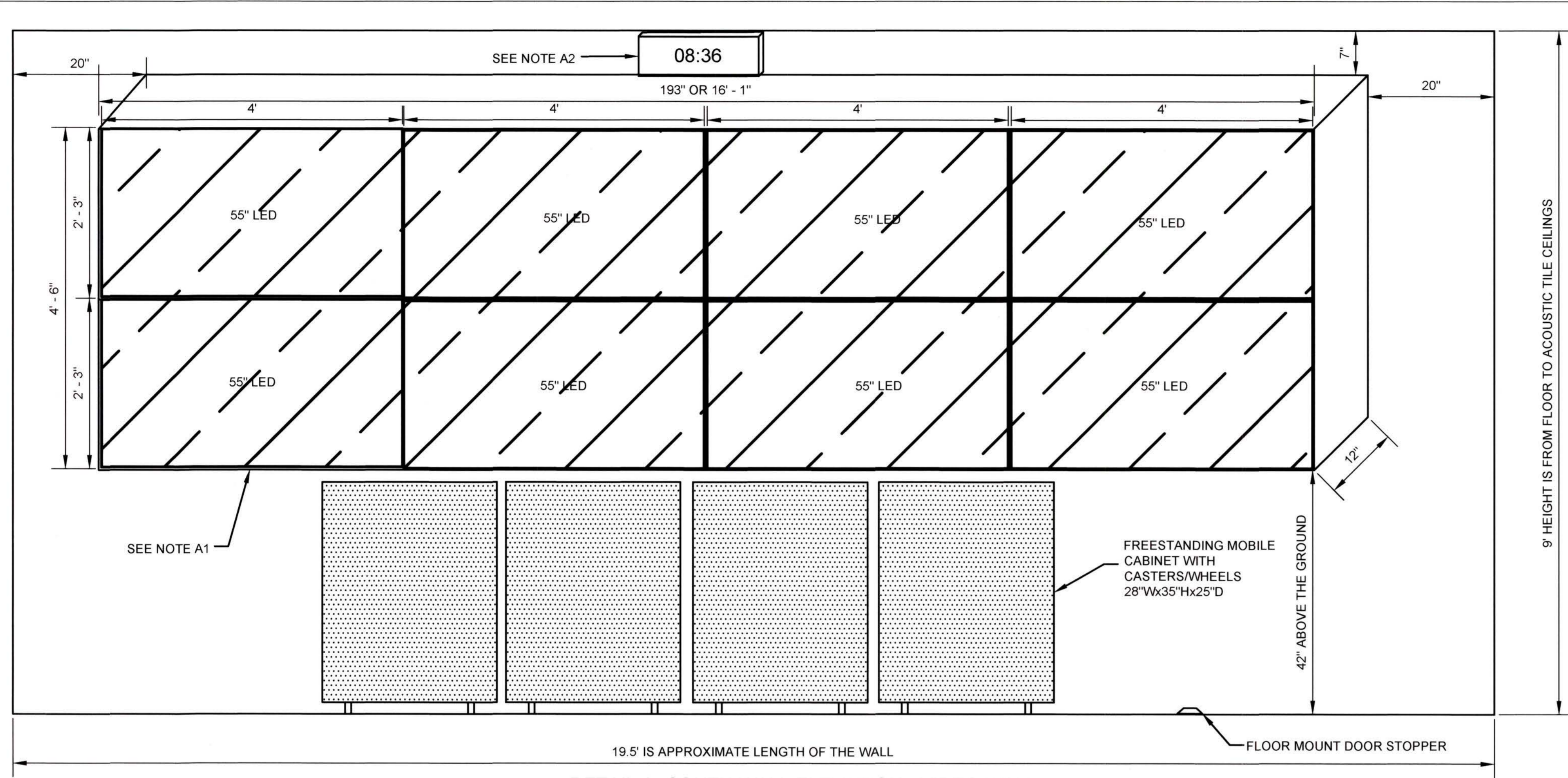


- NOTES:**
1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
 2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
 3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.



FINAL				STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT STOCKTON TMC EQUIPMENT UPGRADES FIBER OPTIC PLAN: EL DORADO STREET	APPROVED BY: DATE: 9/4/23 SHEET: 4 OF 18 CASE: FO-2
		NO. REVISED BY APP. DESIGNED: C. HIGBEE DRAWN: R. SABINIANO CHECKED: J. BHATTACHARYA DATE: 5-5-2023 SCALE: 1" = 40'		 	

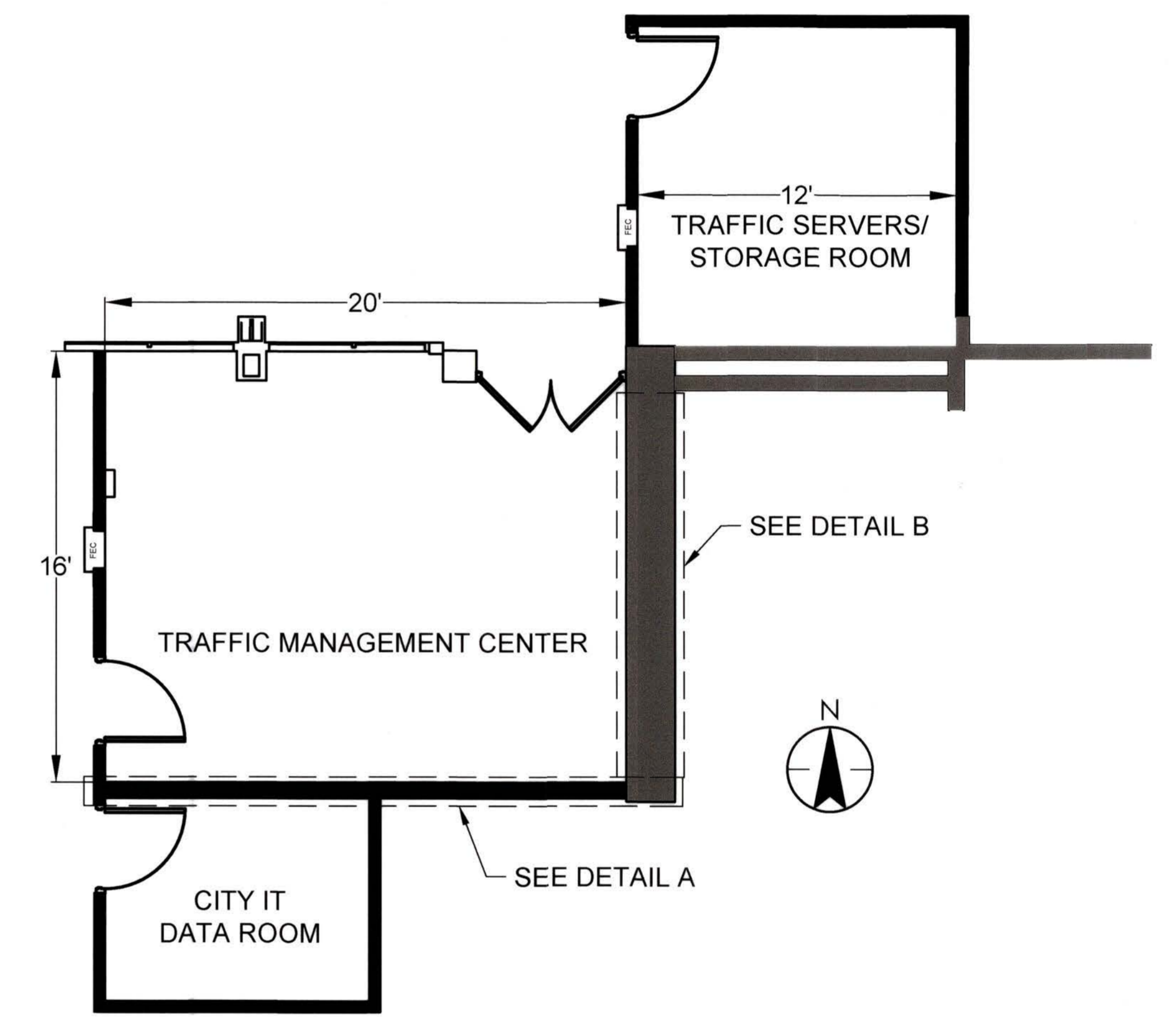
5544.3C



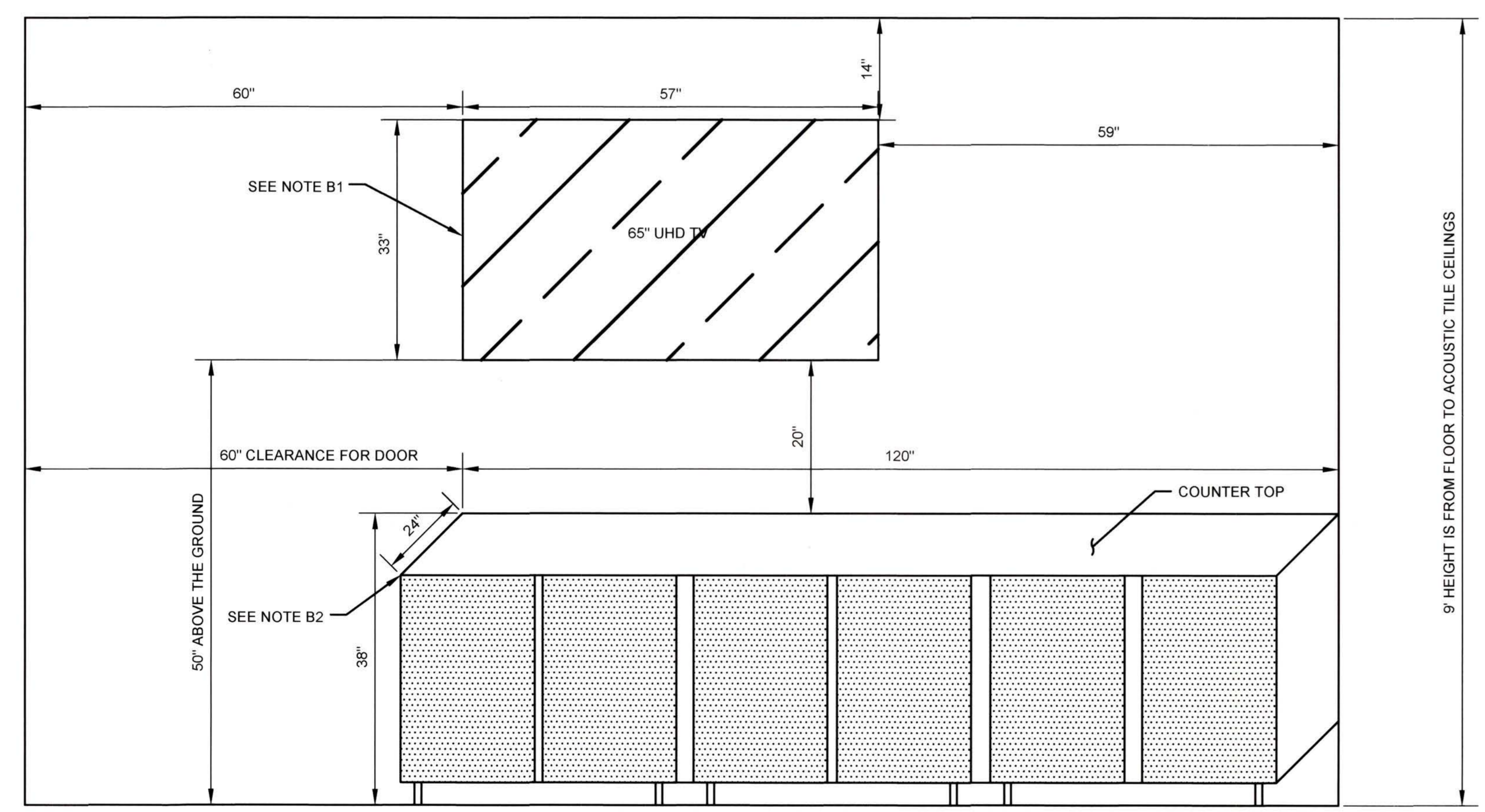
DETAIL A- SOUTH WALL ELEVATION - VIDEO WALL

DETAIL "A" NOTES:

- A1. TOTAL SIZE OF VIDEO WALL IS 193" X 54" X 12" AND TOTAL WEIGHT OF VIDEO WALL IS APPROX. 330 LBS.
- A2. ETHERNET DIGITAL CLOCK



NEW TMC - FLOOR PLAN - 3RD FLOOR - BUILDING 2
509 WEST WEBER AVE. STOCKTON, CA 95203



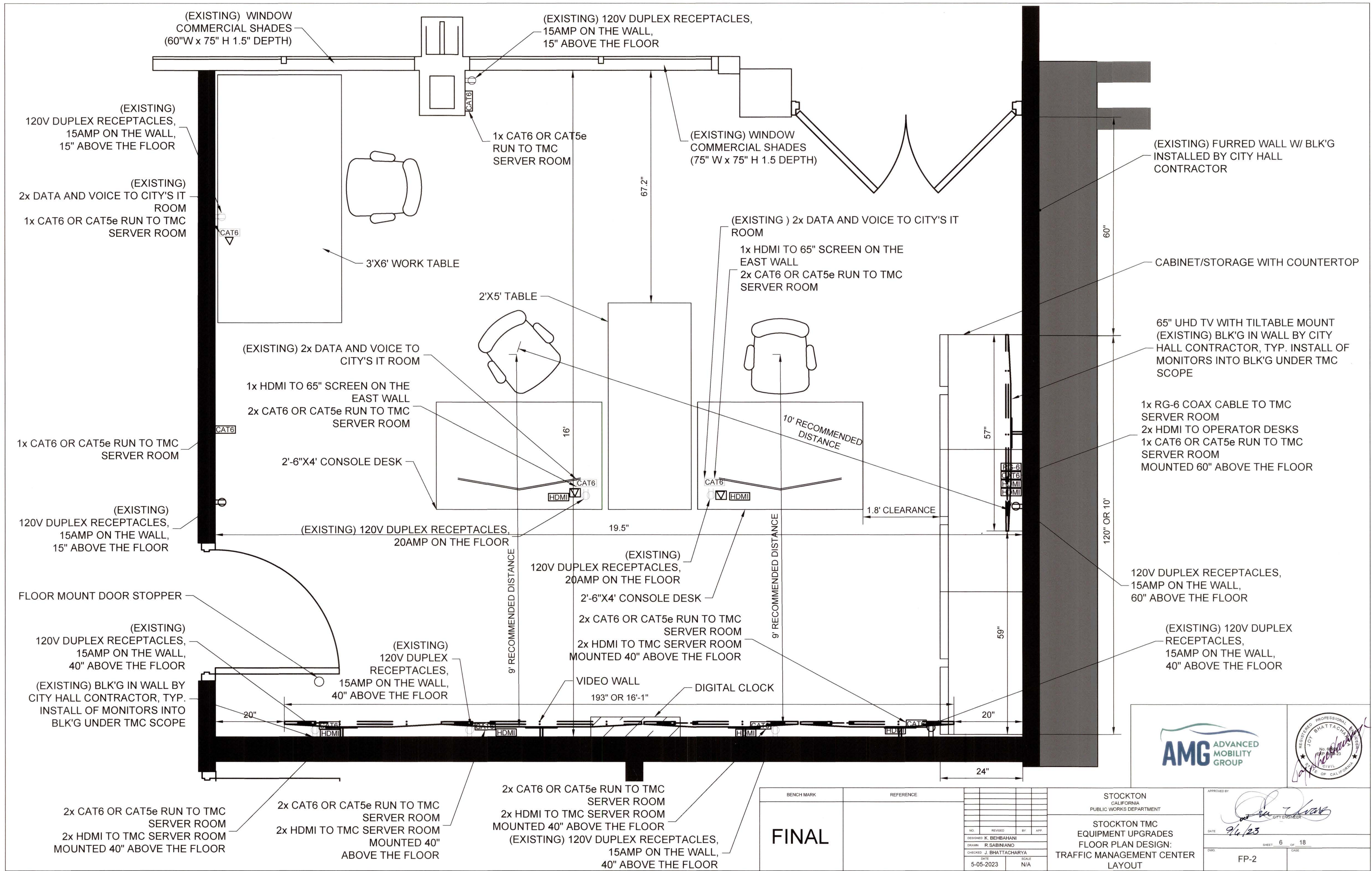
DETAIL B- EAST WALL ELEVATION - ADDITIONAL SCREEN

DETAIL "B" NOTES:

- B1. ADDITIONAL SCREEN'S DIMENSIONS IS 57" X 33" X 4" NOT CONSIDERING THE DEPTH OF MOUNTING BRACKET.
DEPENDING ON THE TYPE OF BRACKET (TILTABLE VS FIXED), THERE WILL BE ADDITIONAL 6" TO 12" SPACE BETWEEN SCREEN AND THE WALL.
- B2. WALL-MOUNT BASE CABINET/STORAGE WITH COUNTERTOP.

BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY
	FINAL	STOCKTON TMC EQUIPMENT UPGRADES FLOOR PLAN DESIGN: TMC VIDEO WALL & SCREEN DETAILS		<i>[Signature]</i> CITY ENGINEER
DESIGNED: K. BEHBAHANI		DRAWN: R. SABINIANO		DATE: 7/6/23
CHECKED: J. BHATTACHARYA		DATE: 5-05-2023		SHEET: 5 OF 18
SCALE: N/A		CASE: FP-1		





BENCH MARK	REFERENCE
FINAL	
DESIGNED BY K. BEHBAHANI	CHECKED BY J. BHATTACHARYA
DRAWN BY R. SABINIANO	DATE 5-05-2023
SCALE N/A	

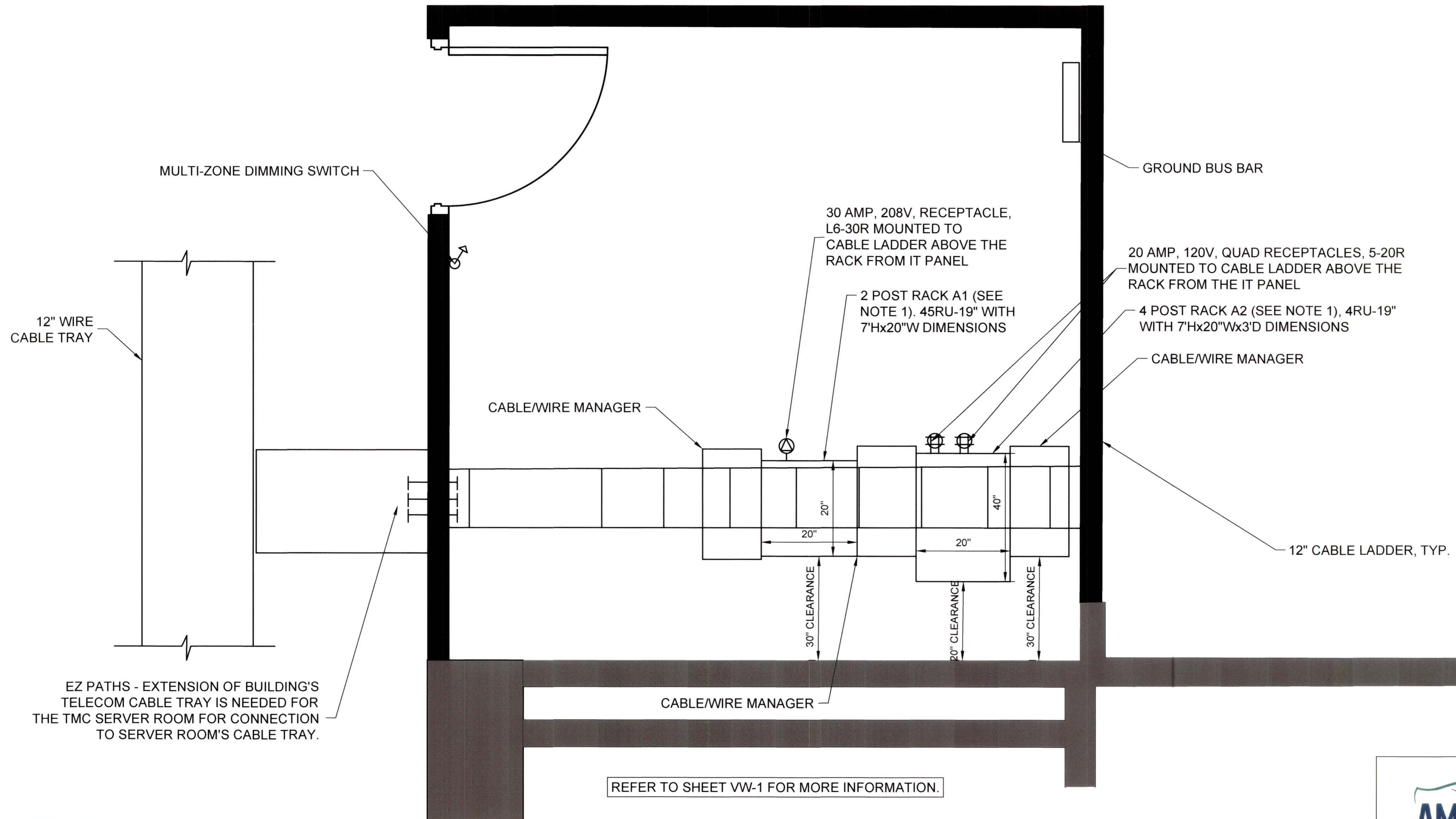
STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT
STOCKTON TMC EQUIPMENT UPGRADES FLOOR PLAN DESIGN: TRAFFIC MANAGEMENT CENTER LAYOUT

APPROVED BY <i>Joy Bhattacharya</i> CITY ENGINEER
DATE 9/6/23
SHEET 6 OF 18
FP-2

5544.5C

DISCLAIMER:

THIS SHEET FOR REFERENCE ONLY. WORK IS TO BE COMPLETED BY "NEW CITY HALL RENOVATION & RELOCATION PROJECT". PROJECT NUMBER E016015, SEE SHEET "E2-311"

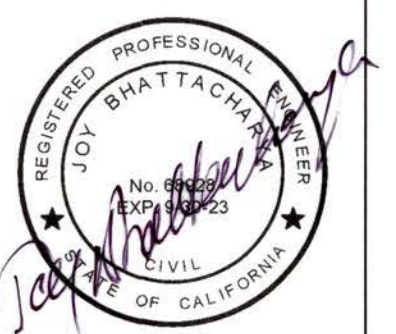


EZ PATHS - EXTENSION OF BUILDING'S TELECOM CABLE TRAY IS NEEDED FOR THE TMC SERVER ROOM FOR CONNECTION TO SERVER ROOM'S CABLE TRAY.

REFER TO SHEET VW-1 FOR MORE INFORMATION.

GENERAL NOTE (THIS SHEET ONLY):

1. RACK ELEVATION DRAWINGS AND MORE INFORMATION PROVIDED ON SHEET VW-1.

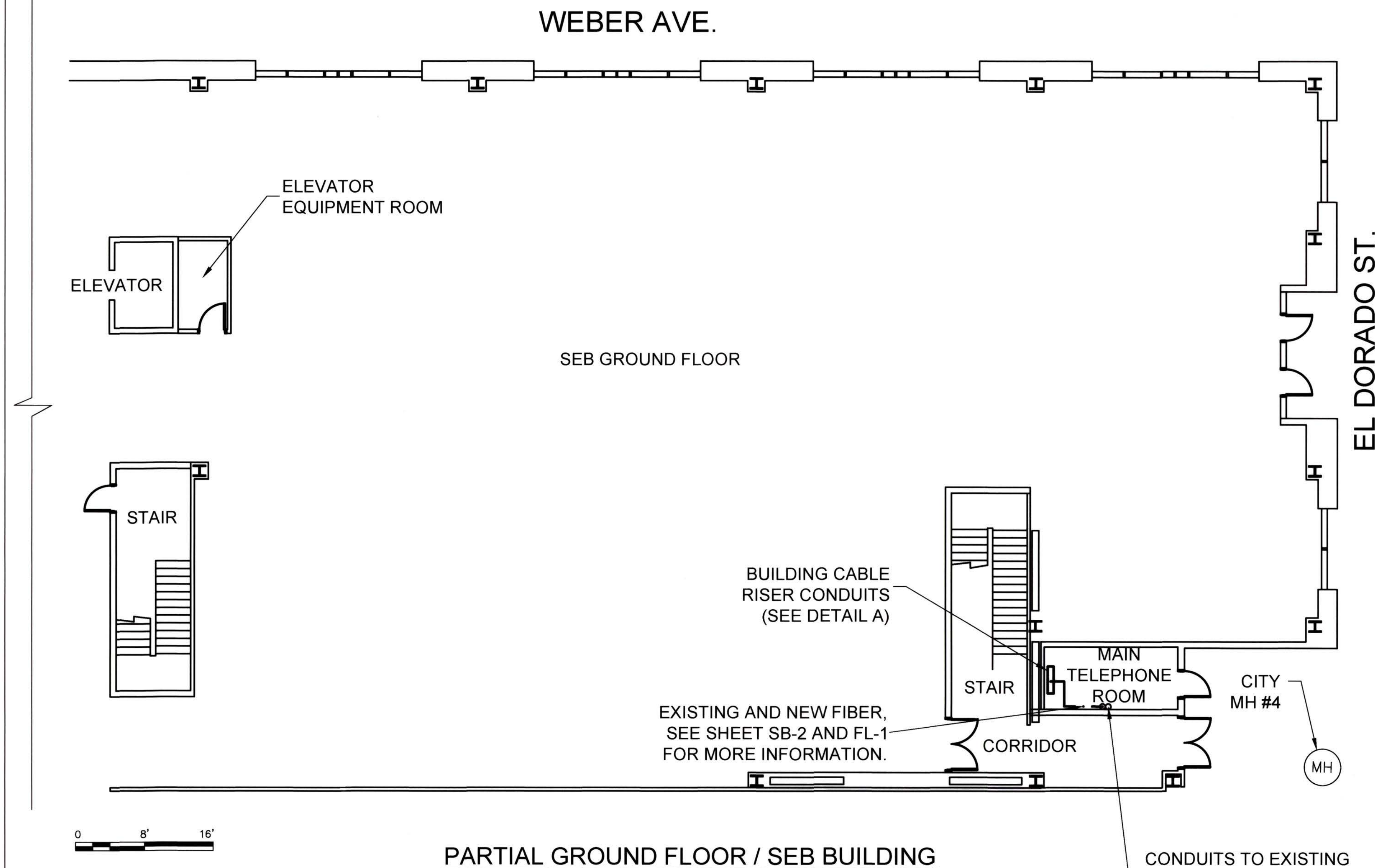


BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY: REFERENCE ONLY CITY ENGINEER
		STOCKTON TMC EQUIPMENT UPGRADES		
FINAL		FLOOR PLAN DESIGN: TRAFFIC SERVERS/STORAGE ROOM		DATE: 9/22/23
DESIGNED: K. BEHBAHANI		DRAWN: R. SABINIANO		SHEET 7 OF 18
CHECKED: J. BHATTACHARYA		DATE: 5-05-2023 SCALE: N/A		CASE: FP-3

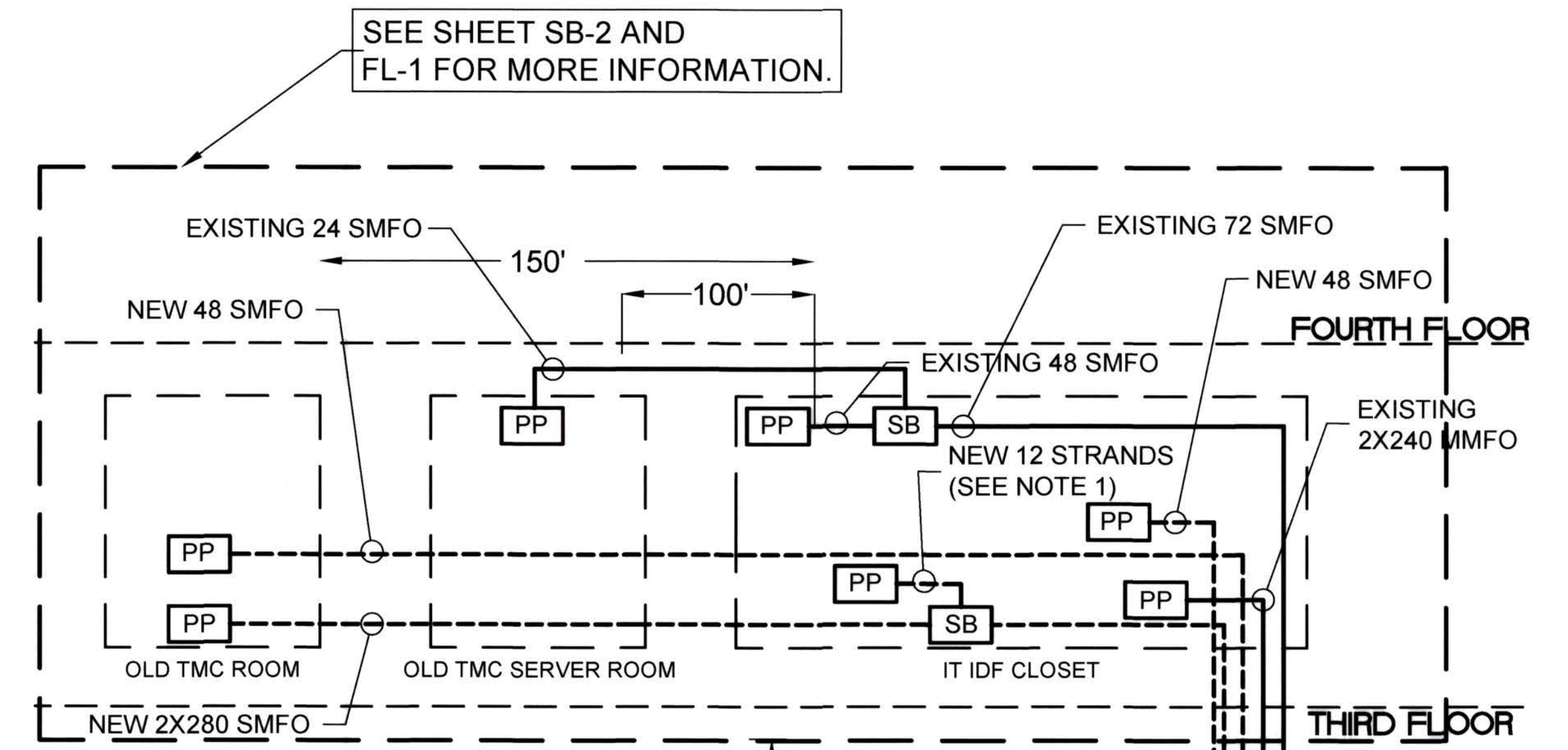
5544.6C

PROJECT NOTES (THIS SHEET ONLY):

- CONTRACTOR TO SPLICE STRANDS 469 TO 480 OF 500+ (2x280 SMFO) AND TERMINATE TO PATCH PANEL AT IT IDF CLOSET.



PARTIAL GROUND FLOOR / SEB BUILDING



LEGEND:

- PP PATCH PANELS
- SB SPLICE BOX
- mh EXISTING ELECTRIC MANHOLE
- NEW FIBER (TYP.)
- EXISTING FIBER (TYP.)

CITY MANHOLE #4 @
E. WEBER AVE./ N. EL DORADO ST.

DETAIL A: SEB CABLE RISER DIAGRAM



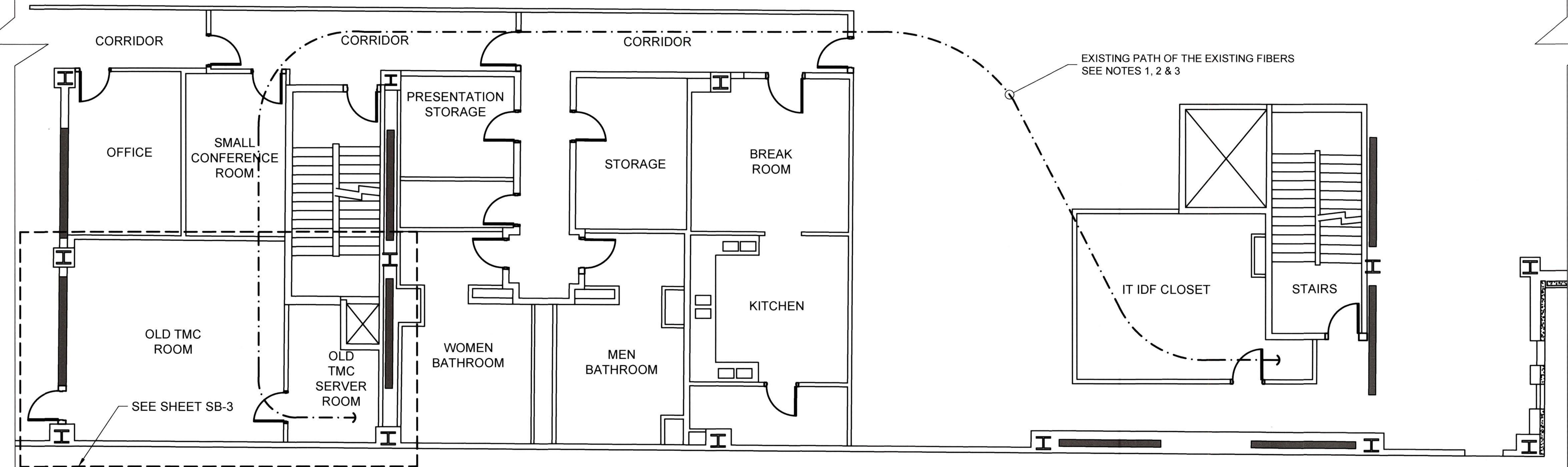
BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY: <i>[Signature]</i> CITY ENGINEER	
		STOCKTON TMC EQUIPMENT UPGRADES			
FINAL		NO.	REVISED BY	DATE: 9/6/23	
		DESIGNED	K. BEHBAHANI		
		DRAWN	R. SABINIANO		
		CHECKED	J. BHATTACHARYA		
		DATE: 5-5-2023	SCALE: 1" = 8'	SHEET 8 OF 18	
SEB FLOOR PLAN DESIGN: EXISTING GROUND FLOOR				SB-1	CASE

5544.7C

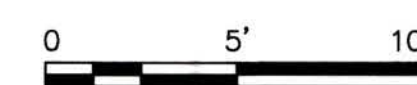
WEBER AVE.

GENERAL NOTES (THIS SHEET ONLY):

1. CONTRACTOR TO VERIFY THE EXACT PATH FOR EXISTING FIBER CABLES AND THE PROPOSED FIBER CABLES.
2. CONTRACTOR TO USE J-HOOKS, RODS, AND NECESSARY MOUNTING FOR THE PROPOSED FIBER CABLES PER APPLICABLE BUILDING CODES AND TIA STANDARDS.
3. CONTRACTOR TO USE INNERDUCT TUBES FOR THE PROPOSED FIBER CABLES THAT ARE BEING MOUNTED USING J-HOOKS AND FOLLOWING THE BUILDING CODES.

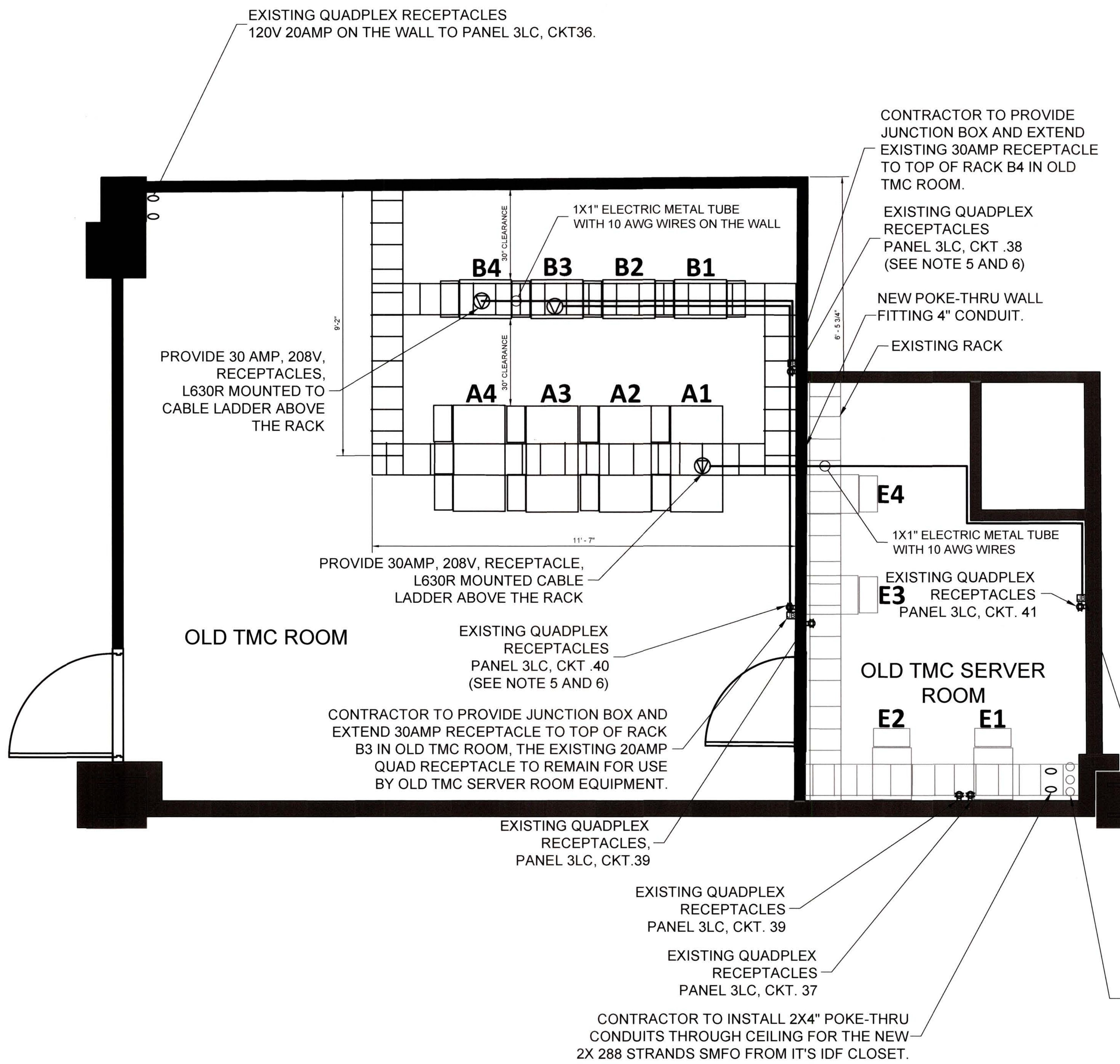


PARTIAL THIRD FLOOR / SEB BUILDING (ROOM 301)



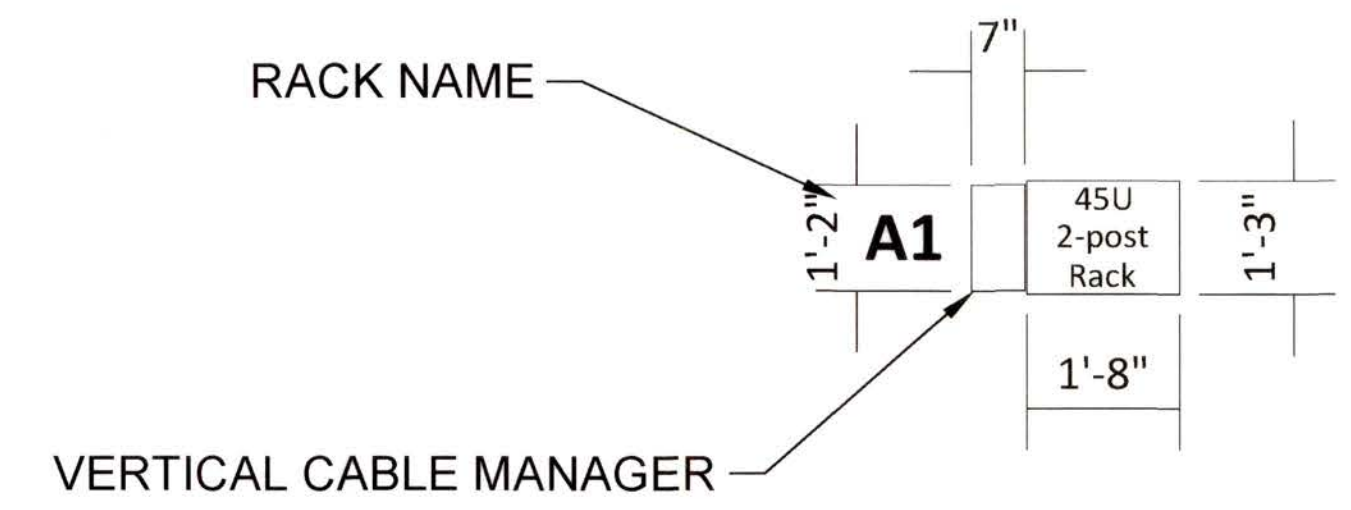
BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY
		STOCKTON TMC EQUIPMENT UPGRADES		<i>[Signature]</i> DATE: 5/13/23
FINAL		DESIGNED K. BEBAHANI	STOCKTON TMC EQUIPMENT UPGRADES SEB FLOOR PLAN DESIGN: PROPOSED THIRD FLOOR	DATE: 5-5-2023
		DRAWN R. SABINIANO		SCALE: 1" = 5'
		CHECKED J. BHATTACHARYA		SHEET 9 OF 18
		DATE: 5-5-2023		CASE SB-2

5544.8C

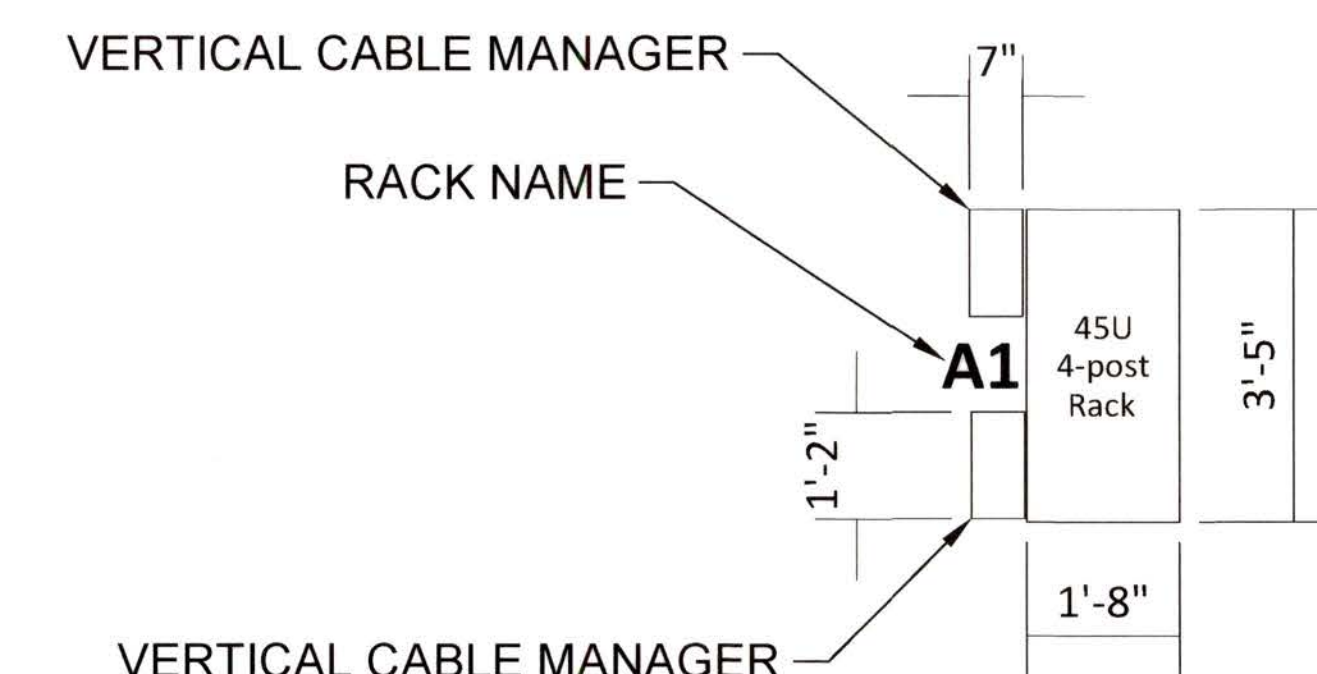


NOTE(S):

1. CONTRACTOR TO FURNISH, INSTALL AND BOLT FOUR NEW 2-POST RACKS AND FOUR NEW 4-POST RACKS WITH CABLE TRAYS AND VERTICAL CABLE MANAGERS IN THE OLD TMC ROOM AS ILLUSTRATED.
2. CONTRACTOR TO REMOVE AND SALVAGE TWO EXISTING 3'X4' WORKSTATION DESK.
3. SEE SHEET NUMBER SB-4 FOR THE RACK ELEVATION AND EQUIPMENT LIST.
4. CONTRACTOR TO EXTEND POWER RECEPTACLES IN THE OLD TMC SERVER ROOM FROM THE WALL TO TOP OF THE RACKS A4 AND BCP.
5. CONTRACTOR TO EXTEND POWER RECEPTACLES FROM CKT 38 AND 40 ON THE WALL OF THE TMC ROOM TO TOP OF THE RACKS B3 AND B4.
6. CONTRACTOR TO UP-SIZE THE ELECTRICAL WIRES TO SUPPORT 30AMP FROM PANEL 3LC. PANEL 3LC INFORMATION AND EXISTING CIRCUIT INFORMATION ARE PROVIDED IN DRAWING SB-5.



Detail A – Typical 2-post Rack with Vertical Cable Manager

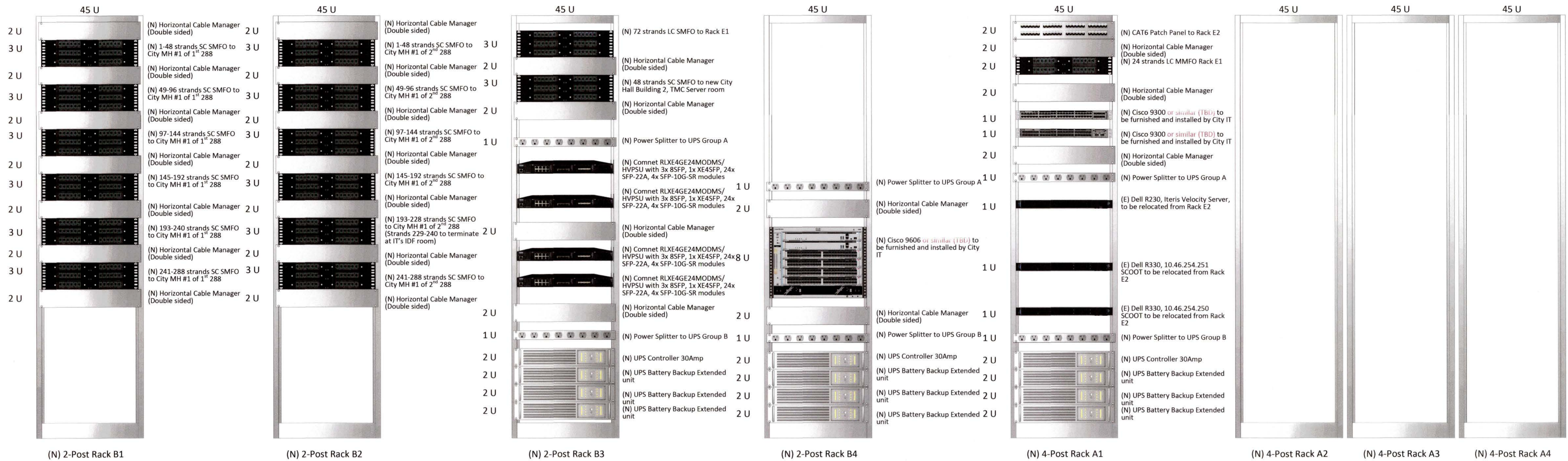


Detail B – Typical 4-post Rack with Vertical Cable Manager

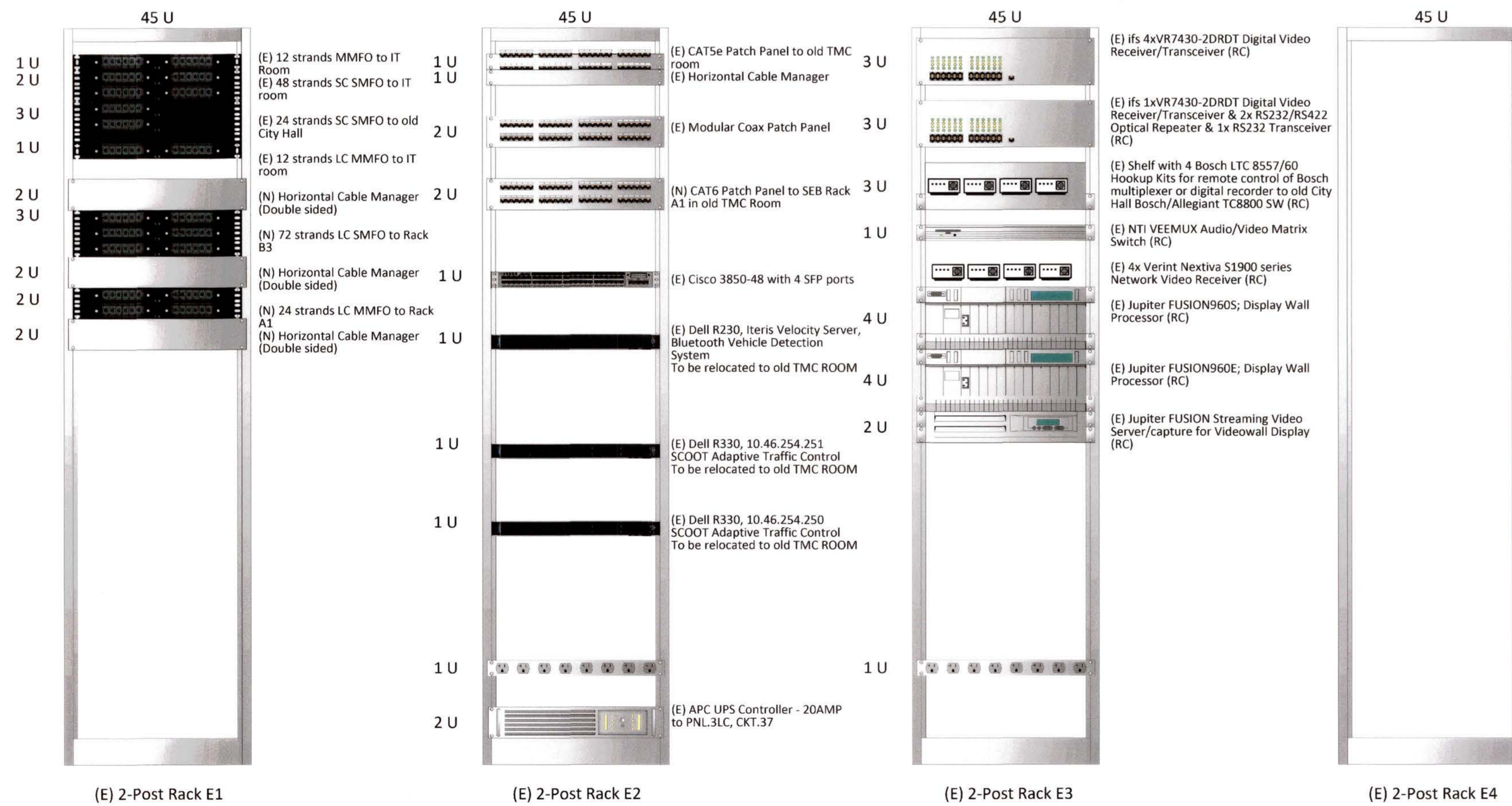
CONTRACTOR TO PROVIDE JUNCTION BOX AND EXTEND 30AMP RECEPTACLE TO TOP OF RACK A1 IN OLD TMC ROOM, THE EXISTING 20AMP QUAD RECEPTACLE TO REMAIN FOR USE BY OLD TMC SERVER ROOM EQUIPMENT.

BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY: <i>[Signature]</i> CITY ENGINEER
		STOCKTON TMC EQUIPMENT UPGRADES		
FINAL		DESIGNED: K. BEBHANI	DATE: 5-5-2023	SHEET 10 OF 18
		DRAWN: R. SABINIANO	SCALE: N/A	
		CHECKED: J. BHATTACHARYA	DATE: 5-5-2023	CASE: SB-3

5544.9C



(A) - SEB Old TMC Room Rack's Elevation



(B) - SEB Old TMC Server Room Rack's Elevation

NOTE(S):

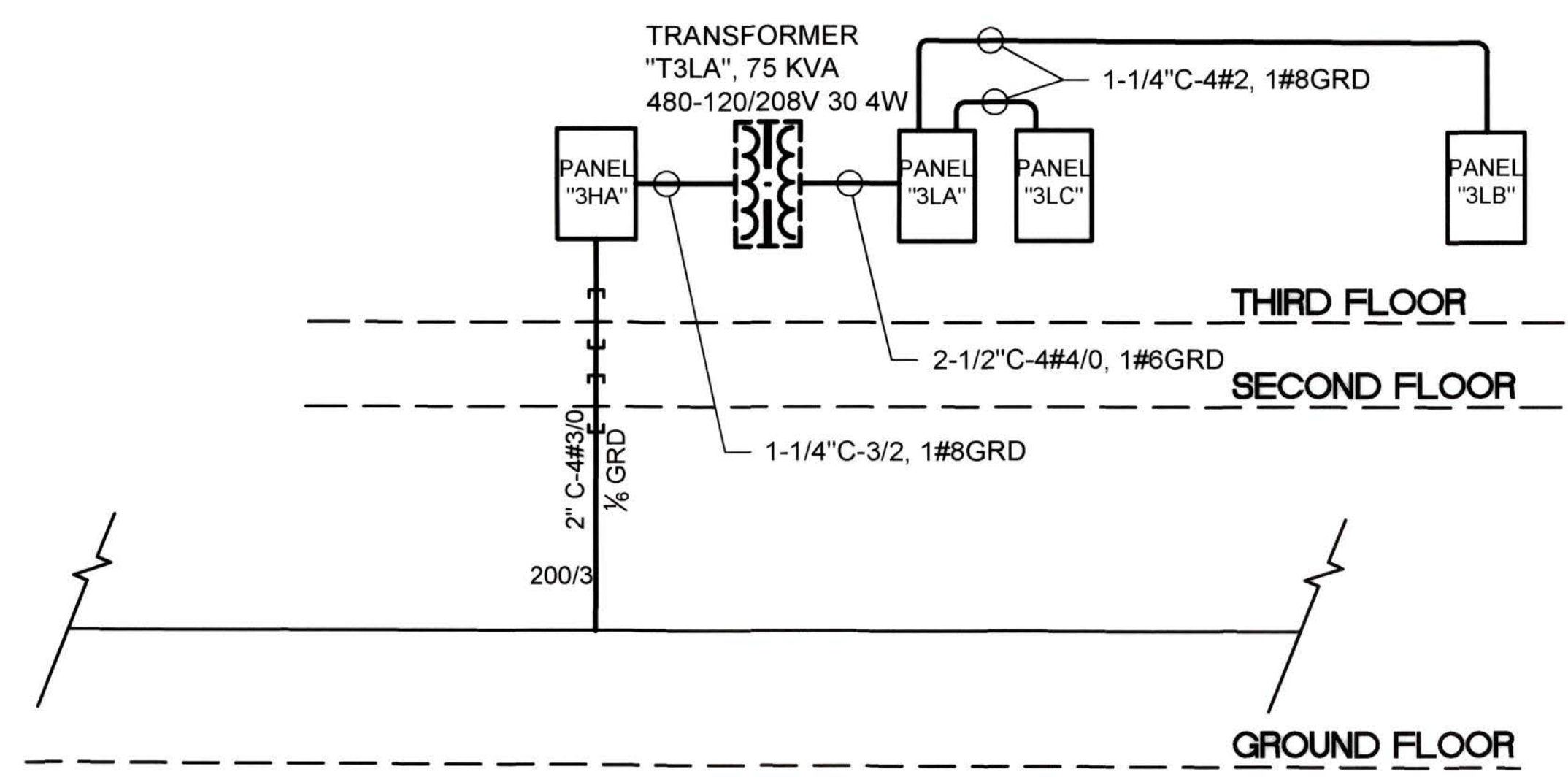
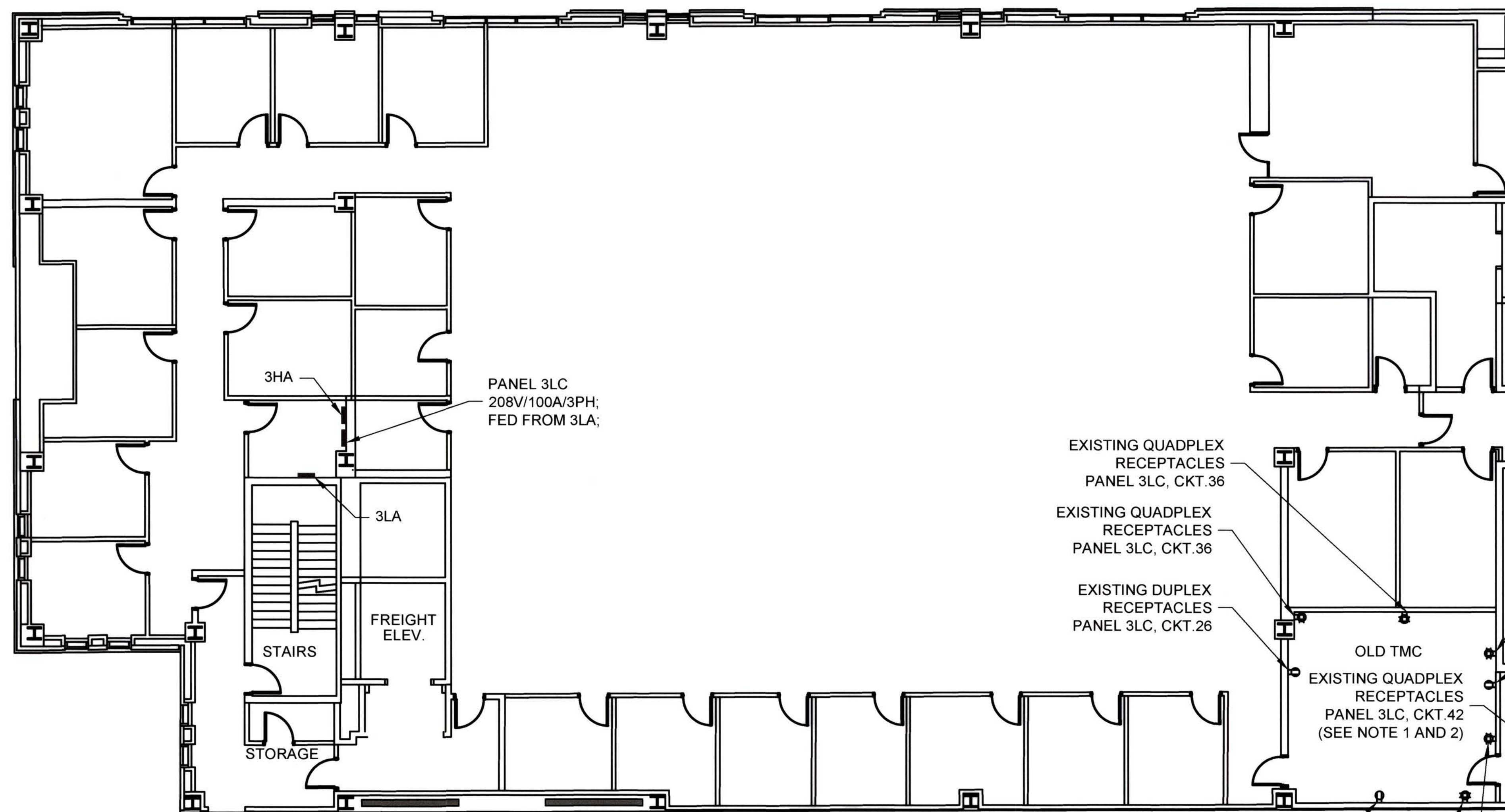
- CONTRACTOR SHALL RUN 72 STRANDS SMFO BETWEEN RACK B3 AND RACK E1.
- CONTRACTOR SHALL RUN 24 STRANDS OM3 OR OM4, MMFO BETWEEN RACK A1 AND RACK E1.
- CONTRACTOR SHALL RUN CAT6 BETWEEN RACK A1 AND RACK E2.
- CONTRACTOR SHALL PROCURE AND INSTALL NECESSARY FIBER PATCH CORDS AND CONNECT PATCH PANELS TO THE SWITCHES TO ESTABLISH CONNECTIONS. CONTRACTOR TO RUN PATCH CABLES THROUGH THE HORIZONTAL AND VERTICAL CABLE MANAGERS, AND CABLE LADDERS. CONTRACTOR TO PROPERLY TIE THE CABLES USING REUSABLE FASTENING CABLE TIES AS NEEDED. CONTRACTOR TO VERIFY AND TEST CONNECTIVITY.

4.1 AT THE MINIMUM, FIBER PATCH CORDS SHALL INCLUDES, 20x SC-to-SC 6ft. OS1, 25x LC-to-LC 6ft. OM3 or OM4, 10x SC-to-LC 6ft. OS1, 20x LC-to-LC 10ft. OM3 OR OM4, 25x SC-to-SC 10ft. OS1, 100x SC-to-SC 15ft. OS1, 70x SC-to-LC 15ft. OS1, 25x LC-to-LC 15ft. OS1, 15x LC-to-LC 15ft. OM3 or OM4, 20x LC-to-LC 20ft. OM3 or OM4, 40x SC-to-SC 25ft. OS1, 15x SC-to-LC 25ft. OS1, 15x LC-to-LC 25ft. OM3 or OM4, 40x SC-to-SC 30ft. OS1.
- CONTRACTOR SHALL PROCURE AND INSTALL NECESSARY CAT6 PATCH CABLES AND CONNECT PATCH PANELS AND DEVICES AS NEEDED. CONTRACTOR TO RUN PATCH CABLES THROUGH THE HORIZONTAL AND VERTICAL CABLE MANAGERS, AND CABLE LADDERS. CONTRACTOR TO PROPERLY TIE THE CABLES USING REUSABLE FASTENING CABLE TIES AS NEEDED. CONTRACTOR TO LABEL BOTH ENDS OF THE CABLES USING DURABLE LABELS OR SIMILAR ON BOTH ENDS OF CABLES. CONTRACTOR TO VERIFY AND TEST CONNECTIVITY.
- CONTRACTOR TO PROCURE AND INSTALL A NETWORK MANAGEMENT SOFTWARE (NMS) ON THE CITY PROVIDED VIRTUAL SERVER AND PERFORM CONFIGURATION PER SPECIFICATION.

BENCH MARK	REFERENCE	NO.		REVISION	BY	APP.	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT STOCKTON TMC EQUIPMENT UPGRADES SEB OLD TMC ROOM RACK ELEVATION	APPROVED BY	 DATE: 9/6/23 SHEET 11 OF 18 CASE SB-4
		DESIGNED	K. BEHBAHANI	DRAWN	R. SABINIANO	CHECKED		J. BHATTACHARYA	



5544.10C

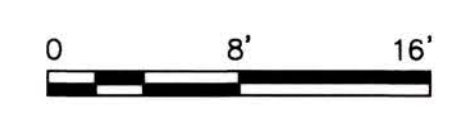


PARTIAL THIRD FLOOR / ELECTRIC PANELS

- NOTE(S):
- CONTRACTOR TO REPLACE EXISTING 20AMP CIRCUIT BREAKERS FOR CIRCUITS 38, 40, AND 42 AT PANEL 3LC AND UP-SIZE THE EXISTING WIRES FROM 12AWG TO 10AWG THROUGH EXISTING ELECTRIC METAL TUBES ABOVE THE CEILING.
 - CONTRACTOR TO EXTEND THE CIRCUITS 38, 40, AND 42 TO PROVIDE 30AMP, 208V RECEPTACLE MOUNTED ABOVE THE RACK'S CABLE LADDER AS SPECIFIED ON DRAWING # SB3.
 - THE EXISTING CIRCUIT LOADS ARE PROVIDED AS A REFERENCE ONLY AND ARE BASED ON THE EXISTING AS-BUILT DRAWING(S). THE CONTRACTOR SHALL PERFORM LOAD CALCULATIONS FOR THE NEW EQUIPMENT THAT WILL BE PROCURED AND INSTALLED AS PART OF THIS PROJECT AND PROVIDE MAX LOADS COUNTS FOR THE CIRCUITS RELATED TO EXISTING TMC ROOM AND EXISTING SERVER ROOM.

- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.36
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.36
- EXISTING DUPLEX RECEPTACLES PANEL 3LC, CKT.26
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.36
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.42 (SEE NOTE 1 AND 2)
- EXISTING DUPLEX RECEPTACLES PANEL 3LC, CKT.26
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.36
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.40 (SEE NOTE 1 AND 2)
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.37
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.41
- EXISTING QUADPLEX RECEPTACLES PANEL 3LC, CKT.39

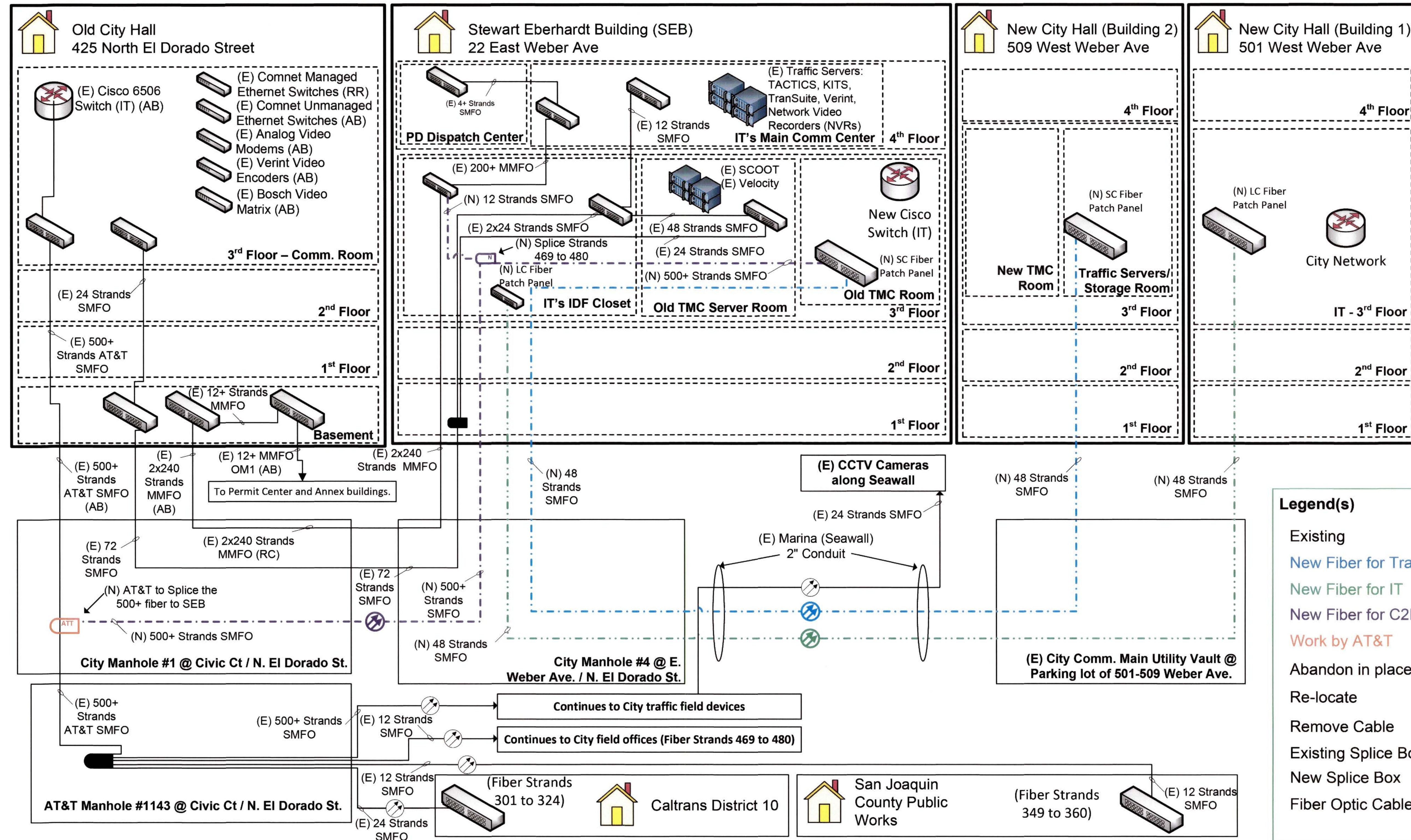
Panel "3LC"						
Total KVA: 28.6			Feeder Amps: 79.4A			
Mounting: Surface			Voltage: 120/208V, 3Ø, 4W			
Bussing: Cooper 225A			Feeder: See One Line Diagram			
Description	Load (Watts)	Breaker (Amp)	Circuit #	Breaker (Amp)	Load (Watts)	Description
Tel/Power Pole	720	20/1	1 2	20/1	720	Tel/Power Pole
Tel/Power Pole	720	20/1	3 4	20/1	720	Tel/Power Pole
Tel/Power Pole	720	20/1	5 6	20/1	720	Tel/Power Pole
Outlets	720	20/1	7 8	20/1	1080	Outlets
Outlets	900	20/1	9 10	20/1	1080	Outlets
Outlets	900	20/1	11 12	20/1	540	Outlets
Outlets	900	20/1	13 14	20/1	720	Outlets
Outlets	720	20/1	15 16	20/1	900	Outlets
Outlets	900	20/1	17 18	20/1	720	Outlets
Outlets	900	20/1	19 20	20/1	1080	Outlets
Outlets	900	20/1	21 22	20/1	720	Outlets
Outlets	900	20/1	23 24	20/1	900	Outlets
Outlets	720	20/1	25 26	20/1	900	Outlets
Outlets	1080	20/1	27 28	20/1	720	Outlets
Outlets	900	20/1	29 30	20/1	360	Outlets
Outlets	900	20/1	31 32	20/1	540	Outlets
Copy	1600	20/1	33 34	20/1	1080	Outlets
SEIMENS	Not Verified	20/1	35 36	20/1	Not Verified	Plugs/N&S Wall TMC room
Plugs/S.Wall Server Room	Not Verified	20/1	37 38	20/1	Not Verified	Plugs/Monitors/E.Wall TMC Room
Plugs/S.Wall Server Room	Not Verified	20/1	39 40	20/1	Not Verified	Plugs/Monitors/E.Wall TMC Room
Plugs/E.Wall Server Room	Not Verified	20/1	41 42	20/1	Not Verified	Plugs/W.Wall Server Room
	15100		VA Total		13500	



BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY: <i>[Signature]</i> DATE: 7/6/23
		STOCKTON TMC EQUIPMENT UPGRADES		
FINAL		STOCKTON TMC EQUIPMENT UPGRADES		SHEET 12 OF 18
		SEB FLOOR PLAN DESIGN: EXISTING ELECTRIC PANELS		
		DATE: 5-5-2023		CASE: SB-5



5544.11C



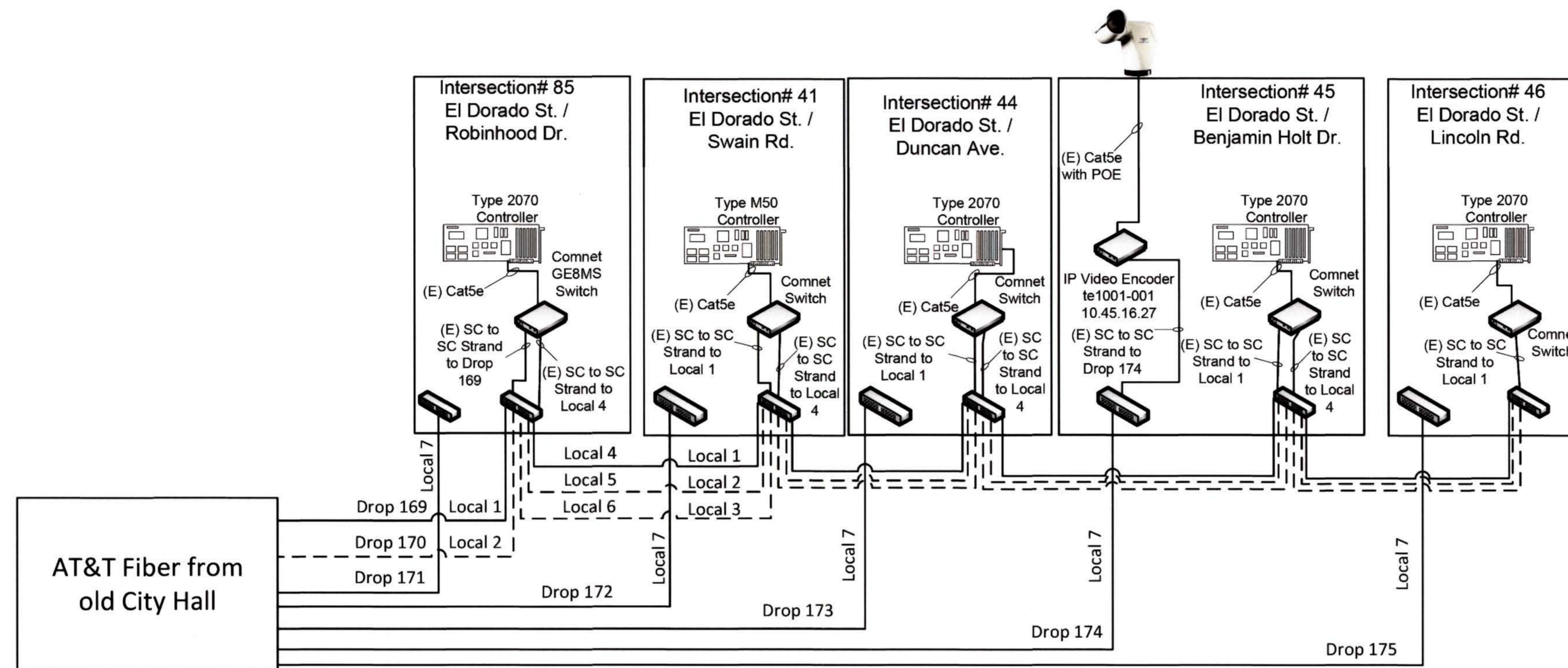
NOTES:

- CONTRACTOR TO COORDINATE WITH CITY IT TO TRANSFER ANY REMAINING (4 STRANDS) LIVE CONNECTIONS ON THE 2X240 STRANDS MMFO BETWEEN SEB AND OLD CITY HALL TO EXISTING SMFO CABLES PRIOR TO CUT AND REMOVAL OF THE MMFO CABLES.
- CONTRACTOR TO RUN 500+ (2X288) SMFO FROM MANHOLE#1 TO SEB AND TERMINATE AT PATCH PANELS AT SEB OLD TMC ROOM AND IT'S IDF PRIOR TO AT&T SPLICES AT THE MANHOLE#1.
- OLD ANALOG MODEMS AND VIDEO ENCODERS TO REMAIN AT EXISTING OLD CITY HALL BUILDING UNTIL CCTVs ARE UPGRADED TO IP CAMERAS.
- CONTRACTOR TO TERMINATE 48 STRANDS SMFO FIBER IN NEW CITY HALL/BUILDING #1, 3RD FLOOR IT ROOM.

FINAL	BENCH MARK	REFERENCE	NO.	REVISION	BY	APP.	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT STOCKTON TMC EQUIPMENT UPGRADES FIBER OPTIC NETWORK LAYOUT	APPROVED BY: <i>[Signature]</i> CITY ENGINEER	
	DESIGNED: K. BEHBAHANI							DATE: 5-5-2023	DATE: 5/12/23
	DRAWN: R. SABINIANO							SCALE: N/A	SHEET: 14 OF 18
	CHECKED: J. BHATTACHARYA								CASE: FL-1

5544.13C

Group / Channel 11



Legend(s)
 Existing
 Spare Fiber Strand

NOTES:

1. CONTRACTOR TO REPLACE EXISTING COMNET UNMANAGED FIBER ETHERNET SWITCHES (MODEL # CNGE8US) WITH COMNET FIBER ETHERNET SWITCHES AS SPECIFIED.
2. CONTRACTOR TO REUSE COMNET SFP MODULES FROM EXISTING COMNET UNMANAGED SWITCHES FOR THE NEW DEVICES. IF THE EXISTING SFP MODULES IS DAMAGED OR NEED REPLACEMENT OR ADDITIONAL SFPs ARE NEEDED, SFP-22A AND SFP-22B ARE NEW MODELS THAT ARE AVAILABLE FOR PURCHASE AND IS COMPATIBLE WITH GE8MS. SFP-21 CAN COMMUNICATE WITH SFP-22B.
3. THE LOCAL FIBER FROM AT&T BETWEEN EACH CABINET, HAS 12 STRANDS THAT ONLY 7 ARE SPLICED IN THE PULL-BOX AND TERMINATED IN THE CABINET FOR USE. THESE STRANDS ARE LABELED AS LOCAL 1 TO 7.
4. THE AT&T FIBER STRANDS THAT ARE LABELED WITH A DROP NUMBER IS DIRECTLY COMING FROM THE STOCKTON'S OLD CITY HALL.
5. IN THE FUTURE, CITY MAY DECIDE TO MODIFY THE STRANDS AND SPLICE TO ENABLE REDUNDANT RING ALONG THE EXISTING GROUP, OR MAY DECIDE TO USE LOCAL 2 AND LOCAL 3 FOR ESTABLISHING A SECONDARY CONNECTION.



FINAL		STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT	STOCKTON TMC EQUIPMENT UPGRADES TYPICAL EXISTING FIELD FIBER NETWORK ARCHITECTURE	APPROVED BY CITY ENGINEER DATE: 7/6/23
		SHEET: 15 OF 18 CASE:		FL-2

5544.14C

NEW CONTROLLER AND ETHERNET SWITCH UPGRADE LIST (89)				
CHANNEL	DROP NUMBER	LOCATION NUMBER	CABINET TYPE	INTERSECTION
1	1	119	M-TS2	Harding Way & Center St
1	3	118	P	Harding Way & Lincoln St
2	4	111	P	Pacific Ave & Alpine Ave
2	5	110	M	Pacific Ave & Knowles Way
3	2	77	P	Pacific Ave & Yokuts Ave
3	3	76	P	Pacific Ave & Robinhood Dr
3	4	47	P	Pacific Ave & Swain Rd
3	5	328	P	Swain Rd & Claremont Ave
4	2	49	R-TS2	Pacific Ave & Benjamin Holt Dr
4	3	50	P	Pacific Ave & Lincoln Rd
4	4	51	P	Pacific Ave & Edan Ave
4	5	12	P	Thornton Rd/Pacific Ave & Lower Sac Rd/Rivara Rd
4	6	378	P-TS2	Benjamin Holt Dr & Inglewood Ave
5	4	340	P-TS2	Precissi Ln & Rosemarie Ln
8	5	297	P-TS2	Montauban Ave & Lorraine Ave/Barbados Cir
8	6	314	P-TS2	March Ln & Fred Russo Dr
8	7	326	P-TS2	March Ln & Holman Rd
8	8	368	P-TS2	Holman Rd & Gold Brook Dr
8	9	338	P-TS2	Holman Rd & Windflower Ln
9	5	277	P	Claremont Ave & Yokuts Ave
11	2	41	P	El Dorado St & Swain Rd
11	3	44	P-TS2	El Dorado St & Duncan Ave
11	4	45	P-TS2	El Dorado St & Benjamin Holt Dr
11	5	46	P-TS2	El Dorado St & Lincoln Rd
12	2	121	P-TS2	El Dorado St & Fulton St
12	3	120	M	El Dorado St & Churchill St
14	6	13	R-TS2	Hammer Ln & Mariners Dr
16	2	29	P-TS2	Hammer Ln & West Ln
16	3	33	P-TS2	Hammer Ln & Montauban Ave & Normandy Village Dr
17	2	278	P	Holman Rd & Telstar Pl/Auto Center Cir
17	3	36	P-TS2	Hammer Ln & Sampson Rd
17	4	348	P-TS2	Hammer Ln & Maranatha Dr
17	5	325	P-TS2	Holman Rd & Auto Center Cir
18	5	307	P-TS2	Benjamin Holt Dr & Gettysburg Pl
18	6	308	P	Benjamin Holt Dr & Harrisburg Pl
22	3	141	P-TS2	Wilson Way & Harding Way
22	4	138	P-TS2	Wilson Way & Bradford St
23	3	92	P-TS2	West Ln & Bianchi Rd
23	4	40	P-TS2	West Ln & Swain Rd
23	5	39	P-TS2	West Ln & Hammertown Dr
23	6	287	P-TS2	Swain Rd & Tam O'Shanter Dr
23	7	309	P	Swain Rd & Kermit Ln
23	8	286	P	Bianchi Rd & Jjams Rd
23	9	362	P-TS2	Tam O'Shanter Dr & Hammertown Dr
24	1	30	P	West Ln & Knickerbocker Dr
24	2	31	P	West Ln & West Ln Frontage
24	3	32	P-TS2	West Ln & Morada Ln
25	6	379	P-TS2	Davis Rd & Wagner Heights Rd
26	6	329	P-TS2	Eight Mile Rd & Rivermont Dr
27	2	135	P	Alpine Ave & Sanguinetti Ln
28	2	175	P-TS2	Fremont St & Wilson Way
28	3	165	M-TS2	Oak St & Airport Way
28	4	147	M	Park St & Airport Way
28	5	146	P-TS2	Wilson Way & Park St
29	1	142	G	Harding Way & Funston Ave
29	2	143	P	Harding Way & Waterloo Rd
29	3	144	P	Waterloo Rd & Cherokee Rd/Dt St
30	1	174	R	Fremont St & Eastland Dr
30	3	172	P	Fremont St & E St
30	4	168	G	Filbert St & Poplar St
31	2	188	P-TS2	Miner Ave & Wilson Way
31	3	200	P-TS2	Main St & Wilson Way
31	4	216	P-TS2	Market St & Wilson Way
32	1	194	P	Main St & Golden Gate Ave
32	2	252	P-TS2	MLK Jr Blvd & Golden Gate Ave
32	3	193	P	Main St & Netherton Ave
34	1	171	P	Fremont St & Filbert St
35	2	57	P	Alexandria Pl & Benjamin Holt Dr
36	1	125	M-TS2	El Dorado St & Harding Way
36	2	126	M	Harding Way & San Joaquin St
36	5	128	M	California St & Walnut St
36	6	349	P-TS2	Harding Way & Palm Ave/Grant St
37	1	152	G	Acacia St & Center St
37	3	150	G	Acacia St & San Joaquin St
37	4	149	M	California St & Magnolia St
38	3	155	G	Park St & Center St
38	4	156	G	Park St & El Dorado St
38	5	158	G	Park St & San Joaquin St
38	6	148	M	Park St & California St
39	2	160	G	Oak St & Center St
39	3	161	G	Oak St & El Dorado St
39	4	162	G	Oak St & Hunter St
39	5	163	G	Oak St & San Joaquin St
40	5	350	P-TS2	Fremont St & Van Buren St/Event Center
42	1	209	M	Weber Ave & El Dorado St
42	2	210	M	Weber Ave & San Joaquin St
42	3	211	G	Weber Ave & Sutter St
42	4	212	M	Weber Ave & California St
42	5	213	M	Weber Ave & American St

NEW CONTROLLER AND ETHERNET SWITCH UPGRADE LIST CONT. (79)				
CHANNEL	DROP NUMBER	LOCATION NUMBER	CABINET TYPE	INTERSECTION
43	1	206	G	Main St & Sutter St
43	3	221	G	Market St & Sutter St
43	4	222	G	Market St & San Joaquin St
43	5	227	G	Washington St & San Joaquin St
43	6	232	G	Lafayette St & San Joaquin St
44	1	204	G	Main St & American St
44	3	220	M	Market St & California St
47	1	219	G	Market St & American St
47	2	218	G	Market St & Stanislaus St
47	3	203	G	Main St & Stanislaus St
47	4	214	P	Weber Ave & Stanislaus St
48	1	238	P-TS2	Anderson St & Wilson Way
48	2	235	M	Hazellon Ave & Airport Way
49	1	237	G	Anderson St & Lincoln St
50	6	299	P-TS2	Lincoln St & Turnpike Rd
51	1	273	P	Washington St & Fresno Ave
52	6	283	P-TS2	8th St & Fresno Ave
52	7	317	P-TS2	8th St & Lever Blvd
52	8	318	P-TS2	8th St & Turnpike Rd
54	1	248	P-TS2	MLK Jr Blvd & Airport Way
55	1	268	M	California St & 4th St
55	2	267	P	El Dorado St & 6th St
55	3	266	P	El Dorado St & 8th St
55	5	264	P	El Dorado St & Clayton Ave/McKinley Ave
56	1	255	P-TS2	Airport Way & 2nd St/Fairgrounds
56	2	256	P-TS2	Airport Way & 8th St
56	4	258	P-TS2	Airport Way & 10th St
57	3	371	P-TS2	Eight Mile Rd & Marlette Rd
57	4	380	P-TS2	Lower Sacramento Rd & Marlette Rd
59	1	215	P	Weber Ave & Airport Way
59	2	201	M	Main St & Airport Way
59	3	217	M	Market St & Airport Way
60	1	198	P	Main St & Market St/Locust St
60	2	197	G	Main St & D St
60	3	196	P	Main St & Fair Oaks Library
60	4	195	P	Main St & Filbert St
60	5	191	G	Filbert St & Lafayette St
62	2	254	P-TS2	Farmington Rd & Madrid Dr
62	3	374	P-TS2	Mariposa Rd & Stagecoach Rd
62	5	373	P-TS2	Mariposa Rd & 99 W Frontage Rd
63	2	280	P	Airport Way & Zephyr St
63	3	261	P	Airport Way & Industrial Dr
63	4	262	R-TS2	Airport Way & Sperry Rd/Arch Airport Rd
63	5	285	P-TS2	Arch Airport Rd & Performance Dr/Sperry Rd
63	6	296	P	Airport Way & Performance Dr/C.E. Dixon Dr
63	8	372	P-TS2	Arch Airport Rd & French Camp Rd/Frank W. Cir
64	1	123	M	El Dorado St & Mariposa Ave
64	4	130	M	California St & Alpine Ave
65	5	281	P	Benjamin Holt Dr & Herndon Pl
65	6	377	P-TS2	Benjamin Holt Dr & Cumberland Pl
66	1	25	P-TS2	Lower Sacramento Rd & Ponce De Leon Ave
66	2	26	P	El Dorado St & Ponce De Leon Ave
66	3	24	P	Lower Sacramento Rd & Royal Oaks Dr
66	4	364	P-TS2	Lower Sacramento Rd & Grider Way
66	5	351	P-TS2	Whistler Way/Grider Way & Windmill Park Dr
66	6	345	P-TS2	Davis Rd & Whistler Way
66	7	344	P-TS2	Davis Rd & Waterbury Dr/St Moritz Ct
66	8	343	P-TS2	Eight Mile Rd & Davis Rd
67	1	208	M	Center St & Weber Ave
67	2	223	G	El Dorado St & Market St
67	3	224	G	Center St & Market St
70	5	290	P-TS2	McDougald Blvd & William Moss Blvd
70	6	289	P-TS2	E.W.S. Woods Blvd & William Moss Blvd
70	7	336	P-TS2	Henry Long Blvd & E.W.S. Woods Blvd
70	8	335	P-TS2	French Camp Rd & E.W.S. Woods Blvd
70	9	320	P-TS2	Henry Long Blvd & McCuen Ave
70	10	316	P-TS2	McCuen Ave & Dominion Dr
70	11	334	P-TS2	French Camp Rd & McCuen Ave
70	12	337	P-TS2	Carolyn Weston Blvd & William Moss Blvd
70	13	363	P-TS2	French Camp Rd & Manthey Rd
73	1	323	P	Holman Rd & Wakeman Rd
73	2	322	P	Holman Rd & Bryant Dr
73	3	321	P-TS2	Holman Rd & Inspiration Dr
73	4	311	P-TS2	Holman Rd & Morada Ln
73	5	346	P-TS2	Morada Ln & Glacier Point Dr
73	6	324	P	Morada Ln & Maranatha Dr/Perino Dr
73	7	339	P-TS2	Holman Rd & Dellina Way/Ravello Way
73	8	342	P-TS2	Holman Rd & Gary Galli Dr
73	9	365	P-TS2	Holman Rd & Hendrix Dr/LI Col Mark Taylor St

SOFTWARE-ONLY IN M60 CONTROLLER AND ETHERNET SWITCH UPGRADE LIST (60)				
CHANNEL	DROP NUMBER	LOCATION NUMBER	CABINET TYPE	INTERSECTION
2	1	114	M	Pacific Ave & Central Ct/Castle St
5	1	79	R-TS2	Pacific Ave & March Ln
5	2	80	R-TS2	March Ln & Precissi Ln
5	3	81	P-TS2	March Ln & College Square
6	1	64	P-TS2	Pershing Ave & March Ln
6	2	65	P-TS2	March Ln & Venetian Dr/Tyrol Ln
6	3	66	P-TS2	March Ln & Grouse Run Dr/McGaw St
6	4	67	P-TS2	March Ln & Venezia Blvd/Quail Lakes Plz
6	5	68	P-TS2	March Ln & Quail Lakes Dr/Da Vinci Dr
8	1	88	P-TS2	March Ln & Palm Plaza Dr
8	2	90	P-TS2	March Ln & West Ln
8	3	89	P-TS2	March Ln & Weber Ranch Pkwy
8	4	91	P-TS2	March Ln & Montauban Ave/Bianchi Rd
9	1	87	P-TS2	March Ln & Holiday Dr
9	2	86	P-TS2	March Ln & Kentfield Rd/Plum Tree Plz
9	3	83	P-TS2	March Ln & El Dorado St
9	6	82	P-TS2	March Ln & Claremont Ave
13	2	22	P	Hammer Ln & Etna St
13	3	23	P	Hammer Ln & El Dorado St
13	4	27	P	Hammer Ln & Lan Ark Dr
14	2	19	P-TS2	Hammer Ln & Alexandria Pl
14	3	18	P-TS2	Hammer Ln & Don Ave/Meadow Ave
14	4	17	P-TS2	Hammer Ln & Richland Way
14	5	16	P-TS2	Hammer Ln & Kelley Dr
18	4	55	P-TS2	Pershing Ave & Lincoln Ave
19	1	94	P-TS2	Pershing Ave & Rosemarie Ln
19	4	82	P-TS2	Pershing Ave & Venetian Dr/Delta College
19	5	61	P-TS2	Pershing Ave & Robinhood Dr/Quail Lakes Dr
21	5	310	P	Pershing Ave & Park St/US-5 NB On Ramp
26	1	7	P-TS2	Thomton Rd & Estate Dr
34	2	170	M	Fremont St & Golden Gate Ave
34	4	199	P-TS2	Filbert St & Miner Ave
36	3	127	P-TS2	Harding Way & California St
36	4	129	M	California St & McCloud Ave
37	2	151	P-TS2	Acacia St & El Dorado St
38	1	157	M-TS2	Park St & Hunter St
39	6	164	M-TS2	Oak St & California St
43	2	207	M-TS2	Main St & San Joaquin St
44	2	205	M-TS2	Main St & California St
44	4	228	P-TS2	Washington St & California St
44	5	231	P-TS2	Lafayette St & California St
48	3	236	P-TS2	Hazellon Ave & Wilson Way
50	1	243	P-TS2	MLK Jr Blvd & Center St
50	2	242	P-TS2	MLK Jr Blvd & Turnpike Rd/Madison St
50	3	241	P-TS2	MLK Jr Blvd & Lincoln St
53	1	244	P-TS2	MLK Jr Blvd & El Dorado St
53	2	245	P-TS2	MLK Jr Blvd & San Joaquin St
53	3	246	P-TS2	MLK Jr Blvd & California St
53	4	247	P-TS2	MLK Jr Blvd & Grant St/Sikh Temple St
54	2	249	P-TS2	MLK Jr Blvd & Wilson Way
54	3	250	P-TS2	MLK Jr Blvd & B St
54	4	251	P-TS2	MLK Jr Blvd & Mariposa Rd/Diamond St
55	4	265	M-TS2	El Dorado St & 9th St (HAWK)
57	2	1	P-TS2	Eight Mile Rd & Lower Sacramento Rd
62	1	253	P-TS2	Mariposa Rd & Farmington Rd/8th St
63	10	382	P-TS2	McKinley Ave & Industrial Dr
70	4	291	P-TS2	Manthey Rd & William Moss Blvd
72	2	331	P-TS2	Trinity Pkwy & Scott Creek Dr
72	3	332	P-TS2	Trinity Pkwy & Commercial Drwy
72	4	333	P-TS2	Trinity Pkwy & Cosumnes Dr

NEW TRAFFIC SIGNAL CONTROLLER ONLY UPGRADE LIST (30)				
CHANNEL	DROP NUMBER	LOCATION NUMBER	CABINET TYPE	INTERSECTION
3	1	93	P	Pacific Ave & Bianchi Rd
4	1	48	P	Pacific Ave & Douglas Rd
10	2	78	P	March Ln & Deer Park Dr
10	3	72	R	March Ln & Brookside Rd
10	4	73	P	March Ln & Morningside Dr
10	5	74	P	March Ln & St Andrews Dr
10	6	75	P	March Ln & Riverbrook Dr
11	1	85	P	El Dorado St & Robinhood Dr
12	1	122	P-TS2	El Dorado St & Alpine Ave
17	1	35	P	Hammer Ln & Holman Rd
18	3	54	R-TS2	Pershing Ave & Benjamin Holt Dr
22	1	145	P-TS2	Wilson Way & Waterloo Rd/Poplar St
26	2	42	P	Thornton Rd & AG Spanos Blvd (South)
26	3	6	P	Thornton Rd & Whistler Way
26	4	5	P	Thornton Rd & AG Spanos Blvd (North)
26	5	4	P	Eight Mile Rd & Thornton Rd
28	1	176	M	Fremont St & Airport Way
31	1	187	P-TS2	Miner Ave & Airport Way
41	2	182	P	Miner Ave & Hunter St
41	4	184	P	Miner Ave & Sutter St
41	5	185	P	Miner Ave & California St
52	2	272	P	Fresno Ave & Navy Dr
52	9	302	P-TS2	Navy Dr & Tillie Lewis Dr
63	1	259	P	Airport Way & Ralph Ave
63	7	304	P-TS2	Arch Airport Rd & Qantas Ln
70	1	288	P-TS2	Carolyn Weston Blvd & Manthey Rd
70	3			

ETHERNET SWITCH ONLY UPGRADE LIST (ALTERNATIVE BID) (55)				
CHANNEL	DROP NUMBER	LOCATION NUMBER	CABINET TYPE	INTERSECTION
1	2	117	P-TS2	Pacific Ave/Madison St & Harding Way
1	4	116	M-TS2	Pacific Ave & Maple St
1	5	115	M	Pacific Ave & Cleveland St/Doris Pl
7	1	69	332	March Ln & I-5 NB On/Off Ramps*
7	2	70	332	March Ln & I-5 SB On/Off Ramps*
9	4	84	P-TS2	El Dorado St & Yokuts Ave
13	1	21	P-TS2	Hammer Ln & Lower Sacramento Rd
15	1	15	332	Hammer Ln & I-5 NB On/Off Ramps*
15	2	14	332	Hammer Ln & I-5 SB On/Off Ramps*
16	4	34	P-TS2	Hammer Ln & Lorraine Ave
16	5	280	P-TS2	Hammer Ln & Girardi Way/Pavilion Plaza
17	6	37	332	Hammer Ln & SR-99 SB On/Off Ramps/Frontage Rd*
17	7	319	332	Hammer Ln & SR-99 NB On/Off Ramps/Frontage Rd*
33	1	190	332	Filbert St & Myrtle St/SR-4 WB On/Off Ramps*
33	2	189	332	Filbert St & Market St/SR-4 EB On/Off Ramps*
34	3	169	332	Fremont St & Oro Ave*
35	3	58	332	Benjamin Holt Dr & Plymouth Rd*
38	2	154	G	Park St & Madison St
39	1	159	M-TS2	Oak St & Madison St
40	1	177	G	Fremont St & El Dorado St
40	2	178	G	Fremont St & Center St
40	3	179	P-TS2	Fremont St & Madison St/Event Center
40	4	180	G	Miner Ave & Center St
45	1	233	332	Lafayette St & El Dorado St/SR4 EB On Ramp*
45	2	226	332	Washington St & El Dorado St/SR4 WB Off Ramp*
45	3	225	332	Washington St & Center St/SR4 WB On Ramp*
45	4	234	332	Lafayette St & Center St/SR4 EB Off Ramp*
46	1	229	332	Washington St & Stanislaus St/SR4 WB On/Off Ramp*
46	2	230	332	Lafayette St & Stanislaus St/SR4 EB On/Off Ramp*
50	4	240	332	Charter Way & I-5 NB On/Off Ramps*
50	5	239	332	Charter Way & I-5 SB On/Off Ramps*
50	7	375	332	Charter Wy & Navy Dr/Stockton St*
51	2	303	332	Navy Dr & SR-4 On/Off Ramp*
52	1	271	332	Charter Way & Fresno Ave*
52	3	270	332	Charter Way & Tillie Lewis Dr*
52	10	284	332	8th St & I-5 SB On/Off Ramp*
52	11	285	332	8th St & I-5 NB On/Off Ramp*
58	1	102	332	Country Club Blvd & Plymouth Rd/I-5 NB Off Ramp*
58	2	101	332	Country Club Blvd & Ryde Ave/I-5 SB On Ramp*
58	3	98	332	Alpine Ave & Ryde Ave & I-5 SB Off Ramp*
58	4	97	332	Alpine Ave & Plymouth Rd & I-5 NB On Ramp*
61	1	275	332	Wilson Way & Washington St/SR4 WB On Ramp*
61	2	276	332	Wilson Way & Lafayette St/SR4 EB Off Ramp*
65	1	59	332	Benjamin Holt Dr & I-5 NB On/Off Ramp*
65	2	60	332	Benjamin Holt Dr & I-5 SB On/Off Ramp*
65	4	282	332	Benjamin Holt Dr & Grigsby Pl*
70	17	353	332	I-5 SB On/Off Ramp & French Camp Rd*
70	18	354	332	I-5 NB On/Off Ramp & French Camp Rd*
70	19	312	332	I-5 SB On/Off Ramp & Downing Ave*
70	20	313	332	I-5 NB On/Off Ramp & Downing Ave*
71	4	305	332	SR-99 On/Off Ramps & Arch Airport Rd*
71	5	306	332	Arch Rd & Kingsley Rd/99 Frontage Rd*
72	6	357	332	I-5 SB On/Off Ramp & Eight Mile Rd*
72	7	356	332	I-5 NB On/Off Ramp & Eight Mile Rd*
73	12	367	332	Morada Ln & 99 Frontage Rd*

SUMMARY OF UPGRADES BY TYPE	
UPGRADE TYPE	TOTAL
NEW CONTROLLER AND ETHERNET SWITCH	168
SOFTWARE-ONLY IN M60 CONTROLLER AND ETHERNET SWITCH	60
NEW CONTROLLER-ONLY	30
SOFTWARE-ONLY IN M60 CONTROLLER	26
ETHERNET SWITCH ONLY (ALTERNATIVE BID)	55

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL PROVIDE "D" CONNECTOR ADAPTER CABLES AS NEEDED.
2. ALL TS-2 TYPE 2 CABINETS ARE DENOTED WITH "-TS2". ALL REMAINING CABINETS ARE TS-1 CABINETS.

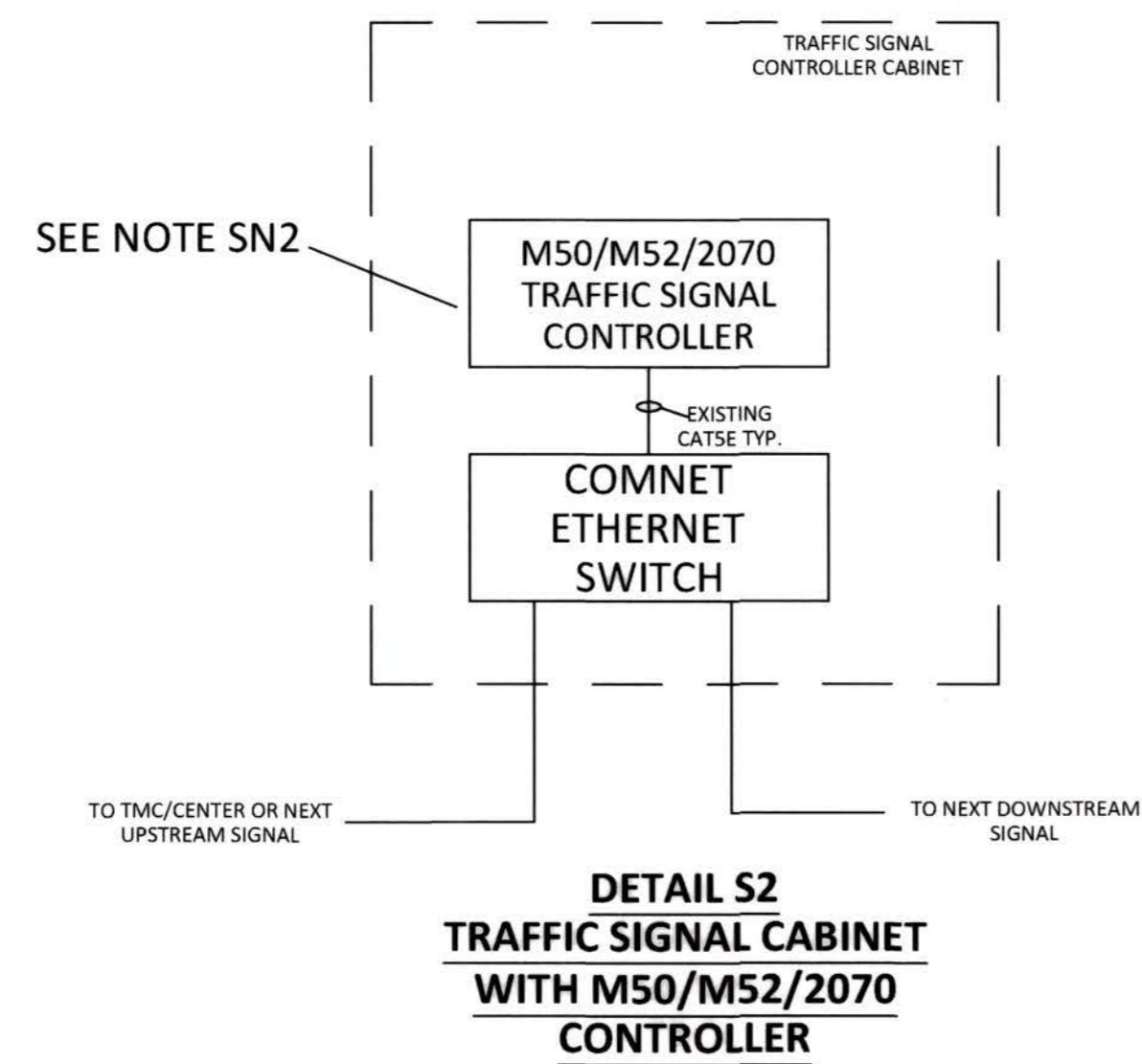
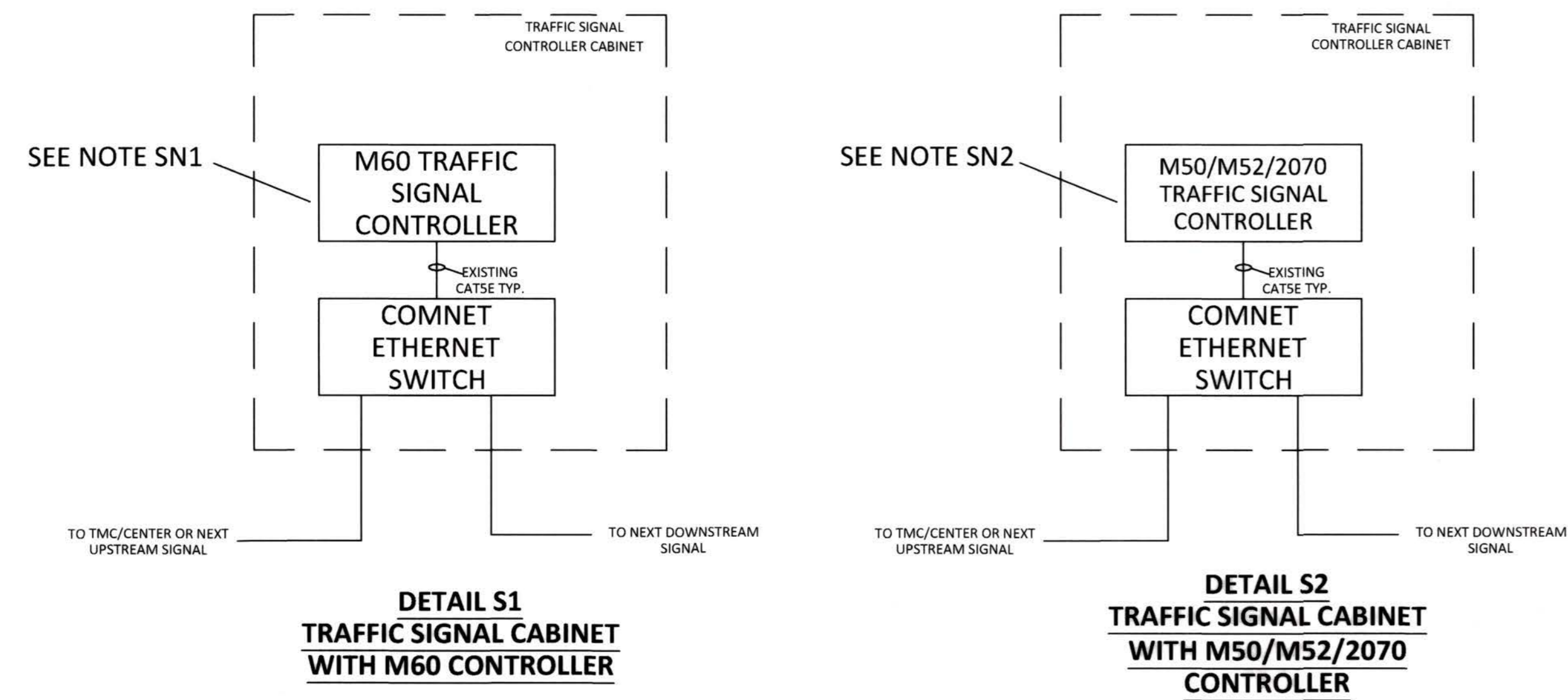
SWITCH-ONLY UPGRADE LIST NOTES:

- * STATE/COUNTY OWNED AND OPERATED TRAFFIC SIGNAL



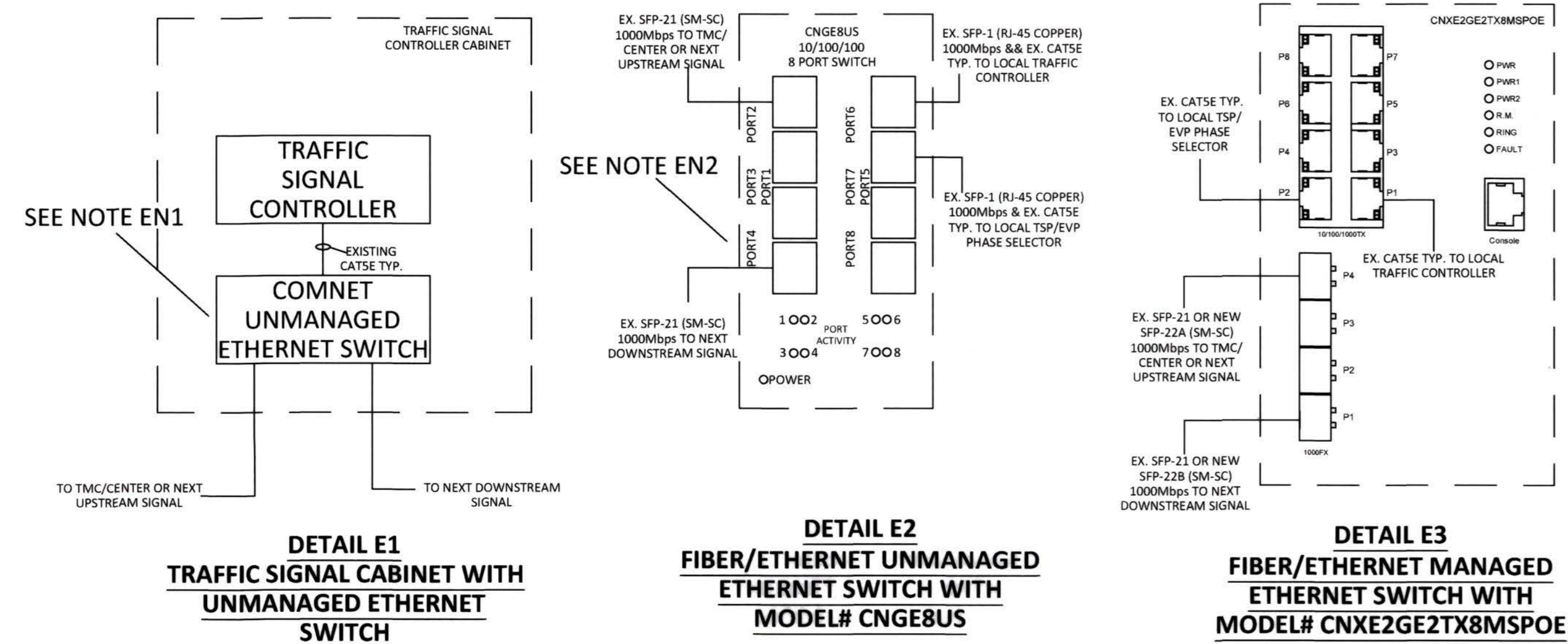
BENCH MARK	REFERENCE	NO.	REVISED	BY	APP.	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT	APPROVED BY: <i>[Signature]</i> CITY ENGINEER
						STOCKTON TMC EQUIPMENT UPGRADES	DATE: 9/1/23
DESIGNED: K. BEHBAHANI						STOCKTON TMC EQUIPMENT UPGRADES	SHEET: 17 OF 18
DRAWN: R. SABINIANO						TRAFFIC SIGNAL EQUIPMENT UPGRADE INVENTORY	CASE: TM-2
CHECKED: J. BHATTACHARYA							
DATE: 5-5-2023						SCALE: N/A	

5544.16C



SIGNAL CONTROLLER NOTES:

- SN1. CONTRACTOR TO FURNISH AND INSTALL D4 SOFTWARE/FIRMWARE VERSION 1.6.2 11312 TRAFFIC SIGNAL CONTROLLER SOFTWARE IN EXISTING M60 CONTROLLER. THE CONTRACTOR SHALL LOAD SOFTWARE AND CITY-CONVERTED SIGNAL TIMING INFORMATION IN SPARE M60 CONTROLLERS AT CITY CORP YARD, TEST IN SHOP, AND THEN SWAP IN FIELD. PROCESS SHALL BE REPEATED WITH RETRIEVED FIELD M60 CONTROLLERS. CONTRACTOR SHALL SAVE SIGNAL TIMING DATABASE ON A 4GB FLASH DRIVE TO BE LEFT IN SIGNAL CABINET FOR EACH LOCATION.
- SN2. CONTRACTOR TO REPLACE THE EXISTING M50/M52/2070 CONTROLLER WITH NEW MCCAIN ATC EX2 NEMA TS-2 TYPE 2 TRAFFIC SIGNAL CONTROLLER WITH CITY APPROVED D4 TRAFFIC SIGNAL CONTROLLER SOFTWARE/FIRMWARE VERSION 1.6.2 11312 AND CITY-CONVERTED SIGNAL TIMING, ACCORDINGLY. CONTRACTOR SHALL SAVE SIGNAL TIMING DATABASE ON A 4GB FLASH DRIVE TO BE LEFT IN SIGNAL CABINET FOR EACH LOCATION.



ETHERNET SWITCH NOTES:

- EN1. CONTRACTOR TO REPLACE UNMANAGED COMNET ETHERNET SWITCH CNGE8US WITH A NEW COMNET ETHERNET SWITCH MODEL CNXE2G2TX8MSPOE. NEW SWITCHES SHALL BE PREVIOUSLY CONFIGURED AND LABELED FOR AN INTERSECTION AS IDENTIFIED IN THE SPECIFICATION. SEE NOTES EN2 AND EN3 AND DETAILS E2 AND E3.
- EN2. CONTRACTOR TO REUSE THE EXISTING SFP-21 MODULE(S) FROM THE CNGE8US AND RECONNECT ALL THE EXISTING POWER, FIBER, AND ETHERNET CABLES/CONNECTORS. IF THE SFP-21 MODULE IS DAMAGED, CONTRACTOR SHALL FURNISH AND INSTALL A NEW SFP-22A OR SFP-22B MODULE, RESPECTIVELY.
- EN3. CONTRACTOR SHALL REPLACE EXISTING POWER SUPPLY AND CONVERT THE POWER CONNECTOR FROM 2-PIN TO 6-PIN CONNECTOR (50-57VDC) AND CONNECT GROUND WIRE.
- EN4. INSTALL DIN RAIL IN CABINET AND MOUNT SWITCH AND POWER SUPPLY ON DIN RAIL.



BENCH MARK	REFERENCE	STOCKTON CALIFORNIA PUBLIC WORKS DEPARTMENT		APPROVED BY: <i>[Signature]</i> CITY ENGINEER
		STOCKTON TMC EQUIPMENT UPGRADES		DATE: 9/6/23
FINAL		STOCKTON TMC EQUIPMENT UPGRADES		SHEET 18 OF 18
		TRAFFIC SIGNAL CABINET MODIFICATIONS DETAILS		D-1
		DESIGNED: K. BEHBAHANI	DATE: 5-5-2023	SCALE: N/A

5544.17C