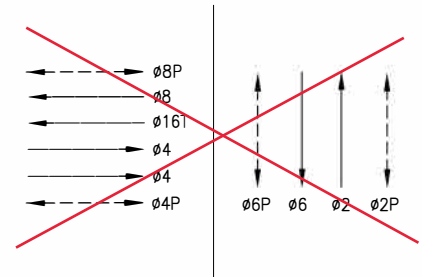
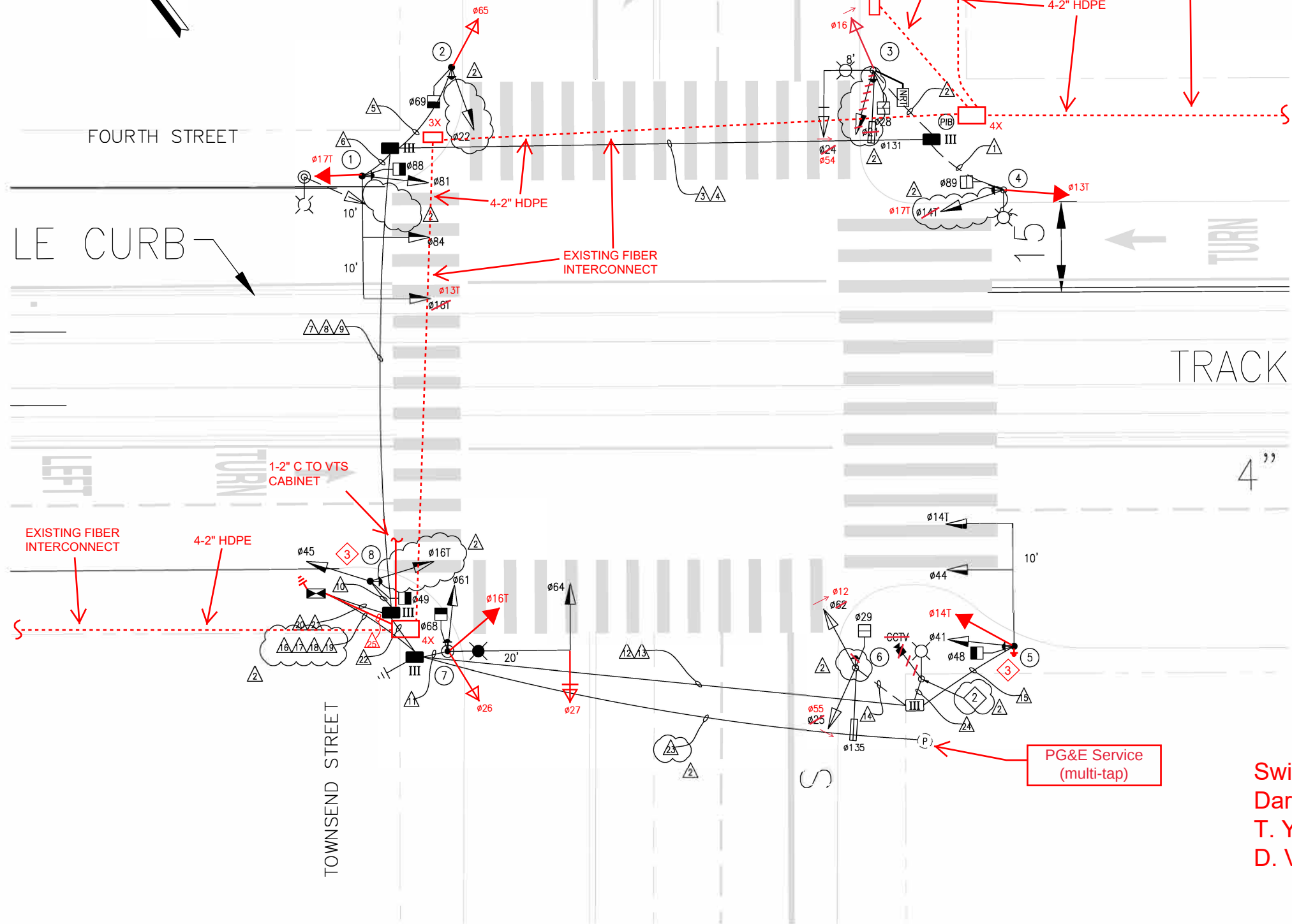


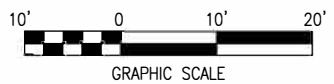
NOTES:

- SEE DRAWING ET-108 FOR POLE, EQUIPMENT, CONDUIT, AND WIRING SCHEDULES.
- ~~FURNISH AND INSTALL CCTV CAMERA ETHERNET CABLE (CAT 6 & 3/16") FROM INTERSECTION CONTROLLER CABINET TO NEAR TOP OF CAMERA POLE. COIL EXTRA 10' ETHERNET CABLE AT BOTH ENDS. SEE CAMERA INSTALLATION DETAILS ON SHEET R-5. DRILL HOLE ON POLE AS DIRECTED BY TRAFFIC SIGNAL SHOP (415-646-2373).~~
- APS BUTTONS ON POLES 5 (CROSSING WS XWALK) & 8 ARE INSTALLED BY CITY FORCES.



PROPOSED PHASE DIAGRAM

Switchover held 5/5/2022
Dark @ 10:15 am; 3-color @12:53 pm
T. Young, S. Wong (MTA-SD); G. Wong (MTA-CP&C);
D. Verhalen, A. Reyes, J. Erickson (MTA Signal Shop)



T:\T_E_FILES\Construction Section\PERSONNEL\G Wing\Projects\Central Subway STS\Signal Mods\4 Townsend\ 4th_Townsend TS.dwg
gwing Fri Jun 09,2017 - 2:34 pm ET-102

DATE	DESCRIPTION	REV. NO.	BY	CHECKED	APPROVED
2/3/2017	75% SUBMITTAL	0			

SFMTA

DESIGNED G. WING
DRAWN G. WING
CHECKED C. HUI
REVIEWED B. DUSSEAU
RECOMMENDED C. MORGANSON
APPROVED R. EDWARDS
DATE 2/3/2017

REV. 0
SEALED BY
W. SENG



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED
EDWARD D. REISKIN
DIRECTOR OF TRANSPORTATION

THIRD STREET LIGHT RAIL PROGRAM
PHASE 2 - CENTRAL SUBWAY
SURFACE, TRACK AND SYSTEMS

TRAFFIC SIGNALS
TOWNSEND STREET AND FOURTH STREET
TRAFFIC SIGNAL PLAN

CONTRACT NO. 1300	REVISION 0
SFMTA CONTROL NO. CL-23605	
DRAWING NO. ET-110	
SHEET NO. 820	

T:_E_FILES\Construction Section_PERSONNEL\GWin\Projects\Central Subway STS\Signal Mods\4 Townsend\ Schedule_recover.dwg
gwing Fri Jun 09,2017 - 3:31 pm ET-105

POLE AND EQUIPMENT SCHEDULE									
POLE NO.	TYPE OF POLE	VEHICLE SIGNAL				PEDESTRIAN SIGNAL			REMARKS
		NO.	TYPE	MOUNTING	VISORS	NO.	TYPE	MOUNTING	
1	MUNI COMBO POLE WITH 20' MAST ARM	81 84 13T LRV 16T LRV 17T	3S12" RYY 3S12" RYY 2S12" LB	SV-1-T MAS SV-1	T T T	88	1S-COUNT	SP-1	APS
2	MUNI POLE	65 22 16 NRT 24 131 24 54	3S12" 3S12" 3S12" LA 1S24" X 24" 3S12" BIKE 3S12" RA	SV-1-T SV-2-T SV-2-T	T T T	69	1S-COUNT	SP-1	APS
3	MUNI COMBO POLE MISSION BAY STYLE WITH 8' MAST ARM	41 44 LRV 14T	3S12" LB 3S12" LB 2S12" LB	SV-1-T MAS MAS	T T T	28	1S-COUNT	SP-1	APS
4	MUNI COMBO POLE MISSION BAY STYLE	135 28 55 62 12 27 26 61 64 LRV 16T	3S12" BIKE 3S12" RA 3S12" LA 3S12" GVA 3S12" GVA 3S12" GVA 2S12" LB	SV-1 TV-2-T MAS SV-1-T MAS SV-1	T T T T T T	89	1S-COUNT	SP-1	APS
5	MUNI COMBO POLE WITH 20' MAST ARM	41 44 LRV 14T	3S12" LB 3S12" LB 2S12" LB	SV-1-T MAS MAS	T T T	48	1S-COUNT	SP-1	APS (2)
6	1-A (10')	135 28 55 62 12 27 26 61 64 LRV 16T	3S12" BIKE 3S12" RA 3S12" LA 3S12" GVA 3S12" GVA 3S12" GVA 2S12" LB	SV-1 TV-2-T MAS SV-1-T MAS SV-1	T T T T T T	29	1S-COUNT	SP-1 SP-1	APS
7	TYPE 17-2-100 WITH 20' MAST ARM	61 64 LRV 16T	3S12" GVA 3S12" GVA 2S12" LB	SV-1-T MAS SV-1	T T T	68	1S-COUNT	SP-1	APS
8	1-A (10')	45 LRV 16T	3S12" LB 2S12" LB	TV-2-T	T T	49	1S-COUNT	SP-1	APS

NOTES:

- SEE ET-110 FOR TRAFFIC SIGNAL WORK AT 4TH AND TOWNSEND INTERSECTION.
- ALL (N) CONDUIT SHALL BE SIZED AS NOTED AND PVC MATERIAL, UON.
- F/I GROUND WIRE IN ALL CONDUITS PER GROUNDING LAYOUT DETAIL ON ET-152.
- F/I 3/8" PULL TAPE IN ALL SPARE CONDUITS AND IN ALL CONDUITS CONTAINING FIELD WIRES WHICH CROSS A STREET.
- SEE STANDARD DRAWING FOR TRAFFIC SIGNAL HEAD MOUNTING BRACKET DETAILS.
- EXTERNAL CONDUIT SHALL BE PROVIDED FOR TRAFFIC SIGNAL WIRING WITH FEEDER.
- THE HEIGHT OF THE CANTILEVER ARM CONNECTION SHALL BE 24' FROM THE BASE OF POLE.

SENSITIVE SECURITY INFORMATION

CONDUIT AND WIRING SCHEDULE																									
CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CONDUIT SIZE (INCH)		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
NOTES		EX	EX												EX										
#14 AWG WIRES																									
VEH SIGNAL 81					S	3	3		S									S		3		S			
VEH SIGNAL 84					P	3	3		P									P		3		P			
PED SIGNAL 88					A	2	2		A									A		2		A			
LRV SIGNAL 16T 13T					R	2	2		R									R		2		R			
APS PPB FOR POLE 1					E	2	2		E									E		2		E			
LRV SIGNAL 17T						3	2													2					
VEH SIGNAL 22						3	2													2					
VEH SIGNAL 65						3	2													2					
PED SIGNAL 69					S	2	2		S									S		2		S			
APS PPB FOR POLE 2					P	2	2		P									P		2		P			
VEH SIGNAL 16			3	3																					
VEH SIGNAL 21 131			3	3	A		3		A									A		3		A			
VEH SIGNAL 24 54			3	3	R		3		R									R		3		R			
NRT			2	2																2					
PED SIGNAL 28			2	2	E		2		E									E		2		E			
APS PPB FOR POLE 3			2	2				2													2				
LRV SIGNAL 13T			2	2				2		2											2				
PED SIGNAL 89			2	2	S			2	S									S		2		S			
LRV SIGNAL 14T 17T			2	2	P			2	P									P		2		P			
APS PPB FOR POLE 4			2	2	A			2	A				2			2	2	A			2	A			
LRV SIGNAL 14T					R				R				3			3	3	R				R			
VEH SIGNAL 41					E				E				3			3	3	E				E			
VEH SIGNAL 44													2			2	2								
PED SIGNAL 48													2			2	2								
LRV SIGNAL 14T					S				S				2			2	2	S				S			
APS PPB FOR POLE 5					P				P				2			2	2	P				P			
VEH SIGNAL 28 55					A				A				3			3	3	A				A			
VEH SIGNAL 62 12					R				R				3			3	3	R				R			
VEH SIGNAL 135													3			3	3								
PED SIGNAL 29					E				E				2			2	2	E				E			
APS PPB FOR POLE 6													2			2	2								
LRV SIGNAL 16T													3			3	3								
VEH SIGNAL 61					S				S				3			3	3	S				S			
VEH SIGNAL 26					P				P				3			3	3	P				P			
VEH SIGNAL 64													3			3	3								
PED SIGNAL 68					A				A				3			3	3	A				A			
APS PPB FOR POLE 7					R				R			2					2	R				R			
VEH SIGNAL 45					E				E	3								E			3	E			
PED SIGNAL 49											2														
LRV SIGNAL 16T											2											2			
APS PPB FOR POLE 8											2											2			
#14 SPARE				3					3					3				3							
#14 NEUTRAL		2	4			2	4				2	3			2	4									
TOTAL #14 AWG WIRES		10	16	26	0	12	18	39	11	0	11	20	27	28	3	15	14	27	25	21	0	0	24	35	28
TOTAL #10 AWG WIRES, NEUTRAL				1					2					1				2			1				
#8 WIRES (STREET LIGHTING)											2														
#8 WIRES (120V SERVICE)																			2						
#10 AWG WIRES (SIGNAL SERVICE)																			3			3			
CCTV CAMERA WIRES (CAT 6a & 3#18)														1				1						1	
CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24

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						SFMTA		DESIGNED G. WING		CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY		THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY SURFACE, TRACK AND SYSTEMS		CONTRACT NO. 1300	
								DRAWN G. WING						SFMTA CONTROL NO. CL-23609	
								CHECKED C. HUI				TRAFFIC SIGNALS TOWNSEND STREET AND FOURTH STREET POLE & EQPT AND CONDUIT & WIRING SCHED		DRAWING NO. ET-111	
								REVIEWED B. DUSSEAU						SHEET NO. 821	
								RECOMMENDED C. MORGANSON						1	
								APPROVED R. EDWARDS							
								DATE 2/3/2017							
2/3/2017 75% SUBMITTAL															
DATE DESCRIPTION REV. NO. BY CHECKED APPROVED															
BORDER REVISED 11/04/2011															
WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THIS RECORD MAY BE DISCLOSED TO PERSON WITHOUT A "NEED TO KNOW", AS DEFINED IN 49 CFR PARTS 15 AND 1520, EXCEPT WITH THE WRITTEN PERMISSION OF THE ADMINISTRATOR OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OR OTHER ACTION.															