



SIX (6) TIE BREAKER STATIONS UPGRADES ORÀNGE AND BLUE LINES DC, MD AND VA

PROFESSIONAL CERTIFICATION: I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 39970 EXPIRATION DATE: 1/17/2017

- COMAR 09.23.03.10

5 OF 29

		REFERENCE DRAWINGS		REVISIONS		
DESIGNED JAJ 4/4/15	NUMBER	TITLE	DATE	NUM	DESCRIPTION] (
DESIGNED JAJ 4/4/15 DATE	_		11/25	AM3	NOTE 2 DELETED	<u> </u>
DRAWNJAJ5/20/1	5					DE
DATE	_					
снескер <u>РК</u> <u>6/1/15</u>	_					RE\
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M WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES **CENI - POWER SYSTEMS ENGINEERING**

DATE

HMI CABINET WIRING DIAGRAM

CONTRACT NO. DRAWING NO. SHEET NO. FQ15237 NONE ST-SC-G-SSI-005

		NETWORK SWITCH ASSEMBLY							COMM ROOM PATCH CORDS			TBS PATCH		TBS EQUIPMENT WITH SCADA CONNECTIONS					
TIE BREAKER STATIONS	STATION ID	NETWORK SWITCH	NETWORK SWITCH ENCLOSURE (HOFFMAN'S ECL1207060P)	1R FIBER PATCH PANEL (OR-FC01U-C)	2R FIBER PATCH PANEL (OR-FC02U-C)	COUPLER PANEL MULTIMODE (SCD-12LC) (NOTE 2)	PANFI	POWER DISC SWITCH FOR FOR NET. SV	SC TO SC DUPLEX 1N	SC TO SC SM B DUPLEX 5M	SC TO SC OM3 C DUPLEX 2M	S LC TO SC SM S DUPLEX 2M	LC TO SC (DUPLEX 2M	RTU (NOTE 2)	HMI (NOTE 2)	POS DTR	DIO FOR DC SWITCHGEAR (NOTE 3)	COMM CABLE TRAY	CABLE SHIELD MONITOR
GREENWICH ST	K06TB2	2	0	1	1	7	2	2	1	1	1	2	20	1	1	1	4	AS REQUIRED	1
OGDEN ST	K07TB1	2	0	1	1	7	2	2	1	1	1	2	20	1	1	1	4	AS REQUIRED	1
PROSPERITY AVE	K07TB2	2	0	1	1	7	2	2	1	1	1	2	20	1	1	1	4	AS REQUIRED	1
BENNING BOARD	G01TB1	2	0	1	1	7	2	2	1	1	1	2	20	1	1	1	5	AS REQUIRED	1
56TH PLACE	G02TB1	2	0	1	1	7	2	2	1	1	1	2	20	1	1	1	4	AS REQUIRED	1
67TH AVE	G02TB2	2	0	1	1	7	2	2	1	1	1	2	20	1	1	1	4	AS REQUIRED	1

NOTE	1:	EQUIPMENT	FURNISHED	BY	WMATA	FOR	INSTALLATION	BY
		CONTRACTO						

NOTE 2: EQUIPMENT FURNISHED AND INSTALLED BY CONTRACTOR

NOTE 3: EQUIPMENT FURNISHED WITH DC SWITCHGEAR.

NOTE 4: EQUIPMENT FURNISHED AND INSTALLED BY WMATA

				Т	YPICAL TI	E BREAKEI	R STATION	SCADA	EQUIPMENT	SCHE	DULE
			DC SWITCHGEAR FIBER PRODUCTS								NEOUS
IE BREAKER STATIONS	STATION ID	DC SWG FIBER PATCH PANEL (OR-615SMFC-48P/S) (NOTE 2)	COUPLER PANEL (OR-SCD12LC	SPATCH CORDS TO SC OM3 DUPLEX 2M CAC & DC SWG	MULTIMODE FIBER INSIDE TBS	10/100 BASE-T CAT-6 CABLE (NOTE 2)	BATTERY MONITOR (NOTE 2)	ROOM TEMP SENSOR (NOTE 2)	RELAY IDEC TYPE RR2BA-UDC24V	SR3B-05	SINGLEMODE FIBER TO COMM ROOM (NOTE 2)
GREENWICH ST	K06TB2	1	8	25	AS REQUIRED	AS REQUIRED	1	1	0		AM3 3
OGDEN ST	K07TB1	1	8	25	AS REQUIRED	AS REQUIRED	1	1	0	0	
PROSPERITY AVE	K07TB2	1	8	25	AS REQUIRED	AS REQUIRED	1	1	0	0	·····
BENNING BOARD	G01TB1	1	8	25	AS REQUIRED	AS REQUIRED	1	1	0	0	AM3
56TH PLACE	G02TB1	1	8	25	AS REQUIRED	AS REQUIRED	1	1	0	0	
67TH AVE	G02TB2	1	8	25	AS REQUIRED	AS REQUIRED	1	1	0	0	



SHEET NO.

18 OF 29

DESIGNED	JAJ	4/4/15	NUMBER	REFERENCE DRAWINGS TITLE	DATE 11/24/15	NUM : A	REVISIONS DESCRIPTION Among the No. 2: Persons Text	metro	WASHINGTON METROPOLITAN	AREA TRANSIT AUTHORITY		SIX (6) TIE BREAKER STATIONS UPGRADES ORANGE AND BLUE LINES DC. MD AND VA			
DRAWN	JAJ PK	5/20/15 DATE 6/1/15			11/24/13	753	Amendment No. 3: Remove Text	====	ARTMENT OF TRANSIT INFRASTRUCTU CENI - POWER SYSTEMS		3	TBS SCADA E	QUIPMENT SCHEDULE		
STESTED _		DATE						REVISION SUBMITTE	ED DATE	APPROVED DATE DEPUTY CHIEF ENGINEER	CONTRACT NO. FQ15237	SCALE NONE	DRAWING NO. ST-SC-TB-SSI-203	SHEE	