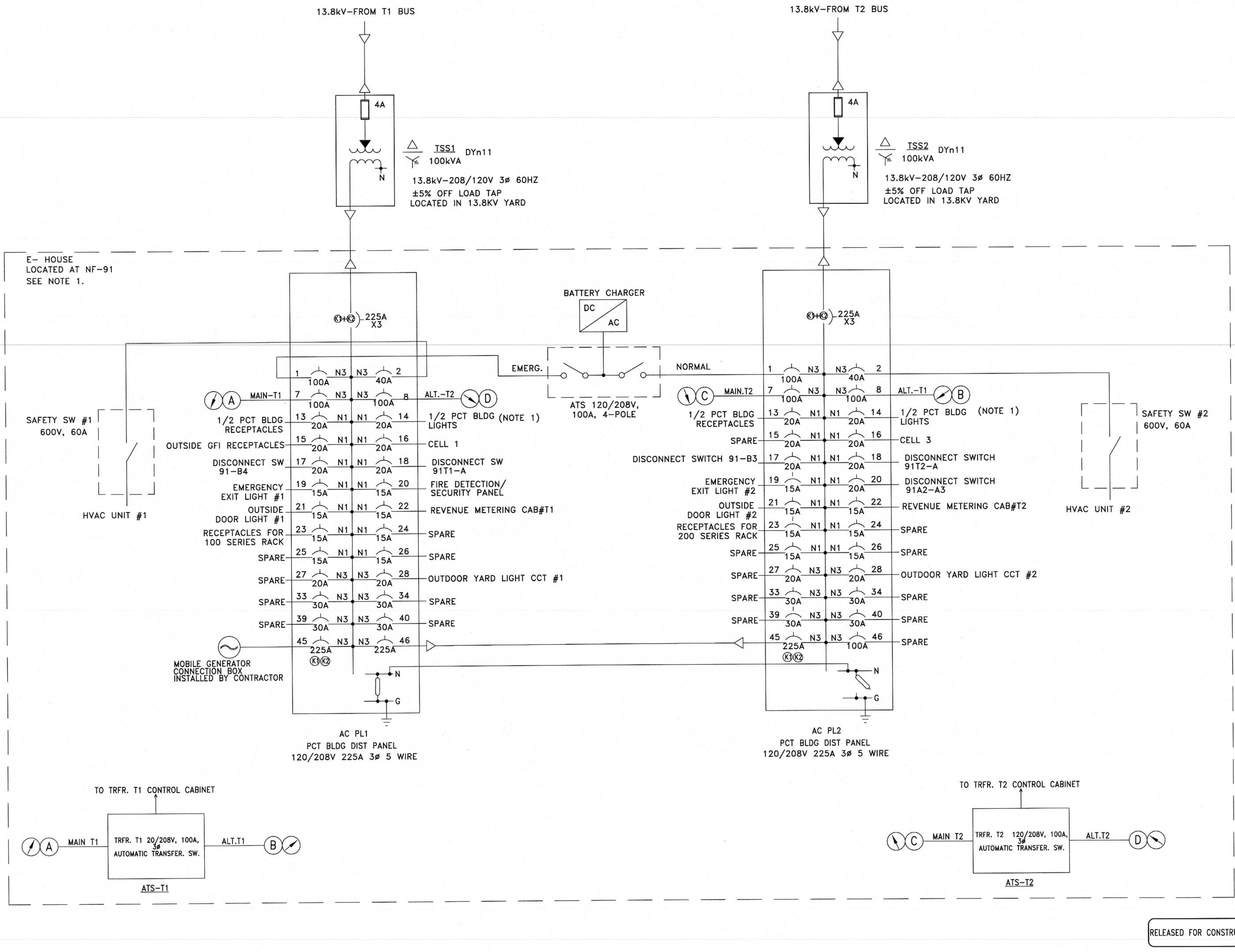
NOTES:

1. E HOUSE WILL BE EQUIPED WITH ALL THE EQUIPMENT INSTALLED AND TESTED. MAIN CONTRACTOR NEED TO INTALL, TERMINATE, TEST AND COMMISSIONED ALL EXTERNAL CABLE FROM AC STATION SERVICE TRANSFORER, DISCONNECT SWITCHES, POWER TRANFOREMRS AND GENERATOR BOX.



RELEASED FOR CONSTRUCTION

NOTES :

PROFESSIONALS:

N°	DATE	TRANSMISSION	BY ENG

THE S.M. GROUP INTERNATIONAL INC.
6205B Airport rd, Suite 205, Mississauga (Ontario) L4V 1E3
Tel. : 905 677.9009 / Fax. : 905 677.9014
www.groupesm.com

STAMP :

FOR REV 00 ONLY

LICENSED PROFESSIONAL ENGINEER
M.R.Farooqi
100062640
PROVINCE OF ONTARIO

CLIENT :

PROJECT :

MCMASTER UNIVERSITY–NF91

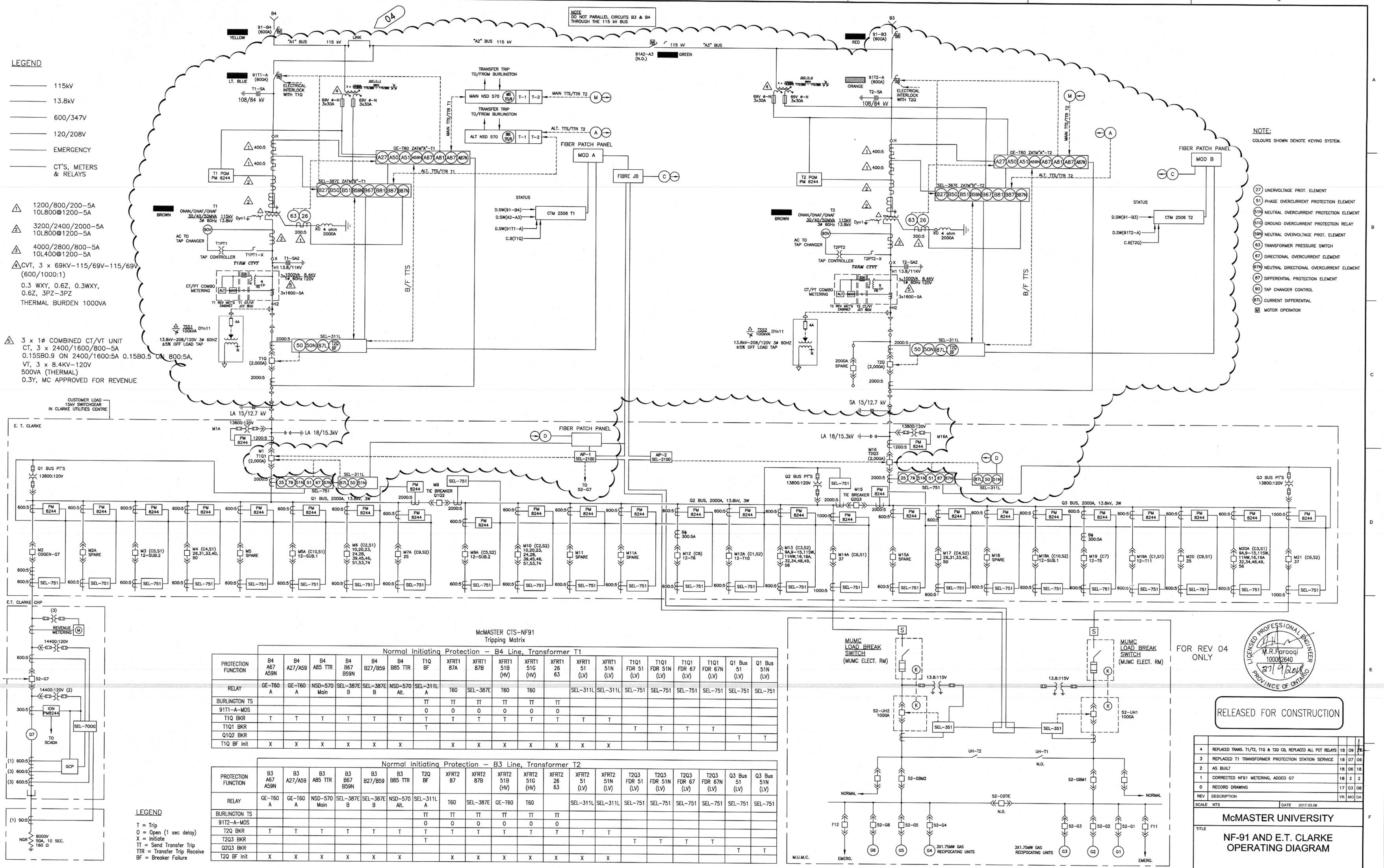
TITLE :

13.8kV AREA PCT BUILDING AC STATION SERVICE SCHEMATIC WIRING DIAGRAM

PREPARED BY : ERIC MIRON	DATE : 2018/09/27
DRAWN BY : GEETHU NAIR	SCALE : AS SHOWN
VERIFIED BY : M. RAZA	DISCIPLINE : PROTECTION & CONTROL
APPROVED BY : R. FAROOQI	CAD FILE NAME : AC SLD F1731664-400-PCM001.dwg

PROJECT No:	LOT:	DWG. #	REV:	PAGE :
F1731664	400	PCM001	00	

A1



McMASTER CTS–NF91
Tripping Matrix

Normal Initiating Protection – B4 Line, Transformer T1

PROTECTION FUNCTION	B4 A67 A59N	B4 A27/A59	B4 A85 TTR	B4 B67 B59N	B4 B27/B59	B4 B85 TTR	T1Q BF	XFRT1 87A	XFRT1 87B	XFRT1 51B (HV)	XFRT1 51G (HV)	XFRT1 26 63	XFRT1 51 (LV)	XFRT1 51N (LV)	T1Q1 FDR 51 (LV)	T1Q1 FDR 51N (LV)	T1Q1 FDR 67 (LV)	T1Q1 FDR 67N (LV)	Q1 Bus 51 (LV)	Q1 Bus 51N (LV)
RELAY	GE–T60 A	GE–T60 A	NSD–570 Main	SEL–387E B	SEL–387E B	NSD–570 Alt.	SEL–311L A	T60	SEL–387E	T60	T60		SEL–311L	SEL–311L	SEL–751	SEL–751	SEL–751	SEL–751	SEL–751	SEL–751
BURLINGTON TS							TT	TT	TT	TT	TT	TT								
91T1–A–MDS							0	0	0	0	0	0								
T1Q BKR	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
T1Q1 BKR							T								T	T	T	T		
Q1Q2 BKR																			T	T
T1Q BF Init	X	X	X	X	X	X		X	X	X	X	X	X	X						

Normal Initiating Protection – B3 Line, Transformer T2

PROTECTION FUNCTION	B3 A67 A59N	B3 A27/A59	B3 A85 TTR	B3 B67 B59N	B3 B27/B59	B3 B85 TTR	T2Q BF	XFRT2 87	XFRT2 87B	XFRT2 51B (HV)	XFRT2 51G (HV)	XFRT2 26 63	XFRT2 51 (LV)	XFRT2 51N (LV)	T2Q3 FDR 51 (LV)	T2Q3 FDR 51N (LV)	T2Q3 FDR 67 (LV)	T2Q3 FDR 67N (LV)	Q3 Bus 51 (LV)	Q3 Bus 51N (LV)
RELAY	GE–T60 A	GE–T60 A	NSD–570 Main	SEL–387E B	SEL–387E B	NSD–570 Alt.	SEL–311L A	T60	SEL–387E	GE–T60	T60		SEL–311L	SEL–311L	SEL–751	SEL–751	SEL–751	SEL–751	SEL–751	SEL–751
BURLINGTON TS							TT	TT	TT	TT	TT	TT								
91T2–A–MDS							0	0	0	0	0	0								
T2Q BKR	T	T	T	T	T	T	T	T	T	T	T	T	T	T						
T2Q3 BKR							T								T	T	T	T		
Q2Q3 BKR																			T	T
T2Q BF Init	X	X	X	X	X	X		X	X	X	X	X	X	X						

LEGEND
T = Trip
O = Open (1 sec delay)
X = Initiate
TT = Send Transfer Trip
TTR = Transfer Trip Receive
BF = Breaker Failure

FOR REV 04 ONLY

M.R.Parooqi 100062640 27/9/2018 LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO

RELEASED FOR CONSTRUCTION

REV	DESCRIPTION	YR	MO	DA
4	REPLACED TRANS. T1/T2, T1Q & T2Q CB, REPLACED ALL PCT RELAYS	18	09	21
3	REPLACED T1 TRANSFORMER PROTECTION STATION SERVICE	18	07	06
2	AS BUILT	18	06	18
1	CORRECTED NF91 METERING, ADDED G7	18	2	2
0	RECORD DRAWING	17	03	08

SCALE NTS DATE 2017.03.08

McMASTER UNIVERSITY

TITLE
NF–91 AND E.T. CLARKE OPERATING DIAGRAM

CAD FILE: NF91.SingleL.Jul.2018 REV 4

C:\USERS\GIDAKOV\DESKTOP\NF91, 12MAINNF91.SINGLELL.FEB.2018.DWG
Monday, February 5, 2018 10:59:35 AM

Cover Sheet

	Station: Mc Master NF-91		Dwg. Number:			Revision #: 00
Rev (#)	Date (yyyy/mm/dd)		Particulars	prepared	checked	approved
00	20018/09/27		ASSIGNED STATION SERVICE CABLE AND P&C CABLES	K.J	R.F	R.F

Cable Lengths are estimated for guidance. They are not used as cut lengths.

Consolidated Cable List

	STATION : Mc MASTER NF-91 P&C CABLE LIST			Revision #:	00	
Cable No.	**From**	**To**	**Service**	**Description (GND Wire Size)**	**Length (m)**	**Rev'd On**
N001	13.8V TRANSFORMER T1 REVENUE METERING PT PHASE R	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING VOLTAGE	2C #10 TECK (#12 GND)	5	00
N002	13.8V TRANSFORMER T1 REVENUE METERING PT PHASE W	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING VOLTAGE	2C #10 TECK (#12 GND)	6	00
N003	13.8V TRANSFORMER T1 REVENUE METERING PT PHASE B	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING VOLTAGE	2C #10 TECK (#12 GND)	7	00
N004	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	13.8V TRANSFORMER T1 REVENUE METERING CABINET	REVENUE METERING VOLTAGE	4C #10 TECK (#12 GND)	5	00
N005	13.8V TRANSFORMER T1 REVENUE METERING CT PHASE R	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING CURRENT	2C #8 TECK (#10 GND)	5	00
N006	13.8V TRANSFORMER T1 REVENUE METERING CT PHASE W	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING CURRENT	2C #8 TECK (#10 GND)	6	00
N007	13.8V TRANSFORMER T1 REVENUE METERING CT PHASE B	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING CURRENT	2C #8 TECK (#10 GND)	7	00
N008	13.8V TRANSFORMER T1 REVENUE METERING CT/VT JUNCTION BOX	13.8V TRANSFORMER T1 REVENUE METERING CABINET	REVENUE METERING CURRENT	6C #8 TECK (#10 GND)	5	00
N009	13.8V TRANSFORMER T2 REVENUE METERING PT PHASE R	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING VOLTAGE	2C #10 TECK (#12 GND)	5	00
N010	13.8V TRANSFORMER T2 REVENUE METERING PT PHASE W	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING VOLTAGE	2C #10 TECK (#12 GND)	6	00
N011	13.8V TRANSFORMER T2 REVENUE METERING PT PHASE B	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING VOLTAGE	2C #10 TECK (#12 GND)	7	00
N012	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	13.8V TRANSFORMER T2 REVENUE METERING CABINET	REVENUE METERING VOLTAGE	4C #10 TECK (#12 GND)	5	00
N013	13.8V TRANSFORMER T2 REVENUE METERING CT PHASE R	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING CURRENT	2C #8 TECK (#10 GND)	5	00
N014	13.8V TRANSFORMER T2 REVENUE METERING CT PHASE W	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING CURRENT	2C #8 TECK (#10 GND)	6	00
N015	13.8V TRANSFORMER T2 REVENUE METERING CT PHASE B	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	REVENUE METERING CURRENT	2C #8 TECK (#10 GND)	7	00
N016	13.8V TRANSFORMER T2 REVENUE METERING CT/VT JUNCTION BOX	13.8V TRANSFORMER T2 REVENUE METERING CABINET	REVENUE METERING CURRENT	6C #8 TECK (#10 GND)	5	00
N017	115KV LINE B4 CVT-T1 -X AC VT RED PHASE	115KV LINE B4 CVT-T1 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	15	0

N018	115KV LINE B4 CVT-T1 -X AC VT WHITE PHASE	115KV LINE B4 CVT-T1 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	20	0
N019	115KV LINE B4 CVT-T1 -X AC VT BLUE PHASE	115KV LINE B4 CVT-T1 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	25	0
N020	115KV LINE B4 CVT-T1 AC VT FUSE BOX	115KV LINE B4 CVT-AC VT TERMINAL RACK IN E HOUSE.	POTENTIAL	4C #10 TECK (#12 GND)	30	0
N021	115KV LINE B4 CVT-T1 -Y AC VT RED PHASE	115KV LINE B4 CVT-T1 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	15	0
N022	115KV LINE B4 CVT-T1 -Y AC VT WHITE PHASE	115KV LINE B4 CVT-T1 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	20	0
N023	115KV LINE B4 CVT-T1 -Y AC VT BLUE PHASE	115KV LINE B4 CVT-T1 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	25	0
N024	115KV LINE B4 CVT-T1 AC VT FUSE BOX	115KV LINE B4 CVT-AC VT TERMINAL RACK IN E HOUSE.	POTENTIAL	4C #10 TECK (#12 GND)	30	0
N025	115KV LINE B3 CVT-T2 -X AC VT RED PHASE	115KV LINE B3 CVT-T2 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	20	0
N026	115KV LINE B3 CVT-T2 -X AC VT WHITE PHASE	115KV LINE B3 CVT-T2 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	25	0
N027	115KV LINE B3 CVT-T2 -X AC VT BLUE PHASE	115KV LINE B3 CVT-T2 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	30	0
N028	115KV LINE B3 CVT-T2 AC VT FUSE BOX	115KV LINE B3 CVT-AC VT TERMINAL RACK IN E HOUSE.	POTENTIAL	4C #10 TECK (#12 GND)	60	0
N029	115KV LINE B3 CVT-T2 -Y AC VT RED PHASE	115KV LINE B3 CVT-T2 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	20	0
N030	115KV LINE B3 CVT-T2 -Y AC VT WHITE PHASE	115KV LINE B3 CVT-T2 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	25	0
N031	115KV LINE B3 CVT-T2 -Y AC VT BLUE PHASE	115KV LINE B3 CVT-T2 AC VT FUSE BOX	POTENTIAL	2C #10 TECK (#12 GND)	30	0
N032	115KV LINE B3 CVT-T2 AC VT FUSE BOX	115KV LINE B3 CVT-AC VT TERMINAL RACK IN E HOUSE.	POTENTIAL	4C #10 TECK (#12 GND)	60	0
N033	DISCONNECT SWITCH 91-B4 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	125V DC POWER SUPPLY	2C #12 SHLD FRPVC (#8 GND)	40	0
N034	DISCONNECT SWITCH 91-B4 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	7C #12 SHLD FRPVC (#6 GND)	40	0
N035	DISCONNECT SWITCH 91-B4 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	4C #12 SHLD FRPVC (#8 GND)	40	0
N036	DISCONNECT SWITCH 91-B4 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	40	0
N037	DISCONNECT SWITCH 91-B3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	125V DC POWER SUPPLY	2C #12 SHLD FRPVC (#8 GND)	70	0
N038	DISCONNECT SWITCH 91-B3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	7C #12 SHLD FRPVC (#6 GND)	70	0
N039	DISCONNECT SWITCH 91-B3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	4C #12 SHLD FRPVC (#8 GND)	70	0
N040	DISCONNECT SWITCH 91-B3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	70	0

N041	DISCONNECT SWITCH 91T1-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	125V DC POWER SUPPLY	2C #12 SHLD FRPVC (#8 GND)	55	0
N042	DISCONNECT SWITCH 91T1-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	7C #12 SHLD FRPVC (#6 GND)	55	0
N043	DISCONNECT SWITCH 91T1-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	4C #12 SHLD FRPVC (#8 GND)	55	0
N044	DISCONNECT SWITCH 91T1-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	55	0
N045	DISCONNECT SWITCH 91T2-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	125V DC POWER SUPPLY	2C #12 SHLD FRPVC (#8 GND)	65	0
N046	DISCONNECT SWITCH 91T2-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	7C #12 SHLD FRPVC (#6 GND)	65	0
N047	DISCONNECT SWITCH 91T2-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	4C #12 SHLD FRPVC (#8 GND)	65	0
N048	DISCONNECT SWITCH 91T2-A MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	65	0
N049	DISCONNECT SWITCH 91A2-A3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	125V DC POWER SUPPLY	2C #12 SHLD FRPVC (#8 GND)	40	0
N050	DISCONNECT SWITCH 91A2-A3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	7C #12 SHLD FRPVC (#6 GND)	40	0
N051	DISCONNECT SWITCH 91A2-A3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL`A' BATT	4C #12 SHLD FRPVC (#8 GND)	40	0
N052	DISCONNECT SWITCH 91A2-A3 MECH BOX.	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	40	0
N053	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	65	0
N054	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CT LEADS T1`A' PROT	4C #10 SHLD FRPVC (#6 GND)	65	0
N055	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CT LEADS T1`A' & `B'PROT	4C #10 SHLD FRPVC (#6 GND)	65	0
N056	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ANN	6 PR #18 SHLD FRPVC (#8 GND)	65	0
N057	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ANN	6 PR #18 SHLD FRPVC (#8 GND)	65	0
N058	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL	12C #12 SHLD FRPVC (#6 GND)	65	0
N059	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	TAP POSIND	4C #16 SHLD FRPVC (#8 GND)	65	0
N060	TRANSFORMERFORMER T1 MECH BOXHADS	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	FIRE DETECTION	3C#18 FAS AIA CABLE (GND)	65	0
N061	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL	3C #12 SHLD FRPVC (#8 GND)	65	0
N062	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ALARMS	3 PR #18 SHLD FRPVC (#8 GND)	85	0

N063	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CT LEADS T2`A' PROT	4C #10 SHLD FRPVC (#6 GND)	85	0
N064	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CT LEADS T2`A' & `B'PROT	4C #10 SHLD FRPVC (#6 GND)	85	0
N065	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ANN	6 PR #18 SHLD FRPVC (#8 GND)	85	0
N066	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	SUPV/ANN	6 PR #18 SHLD FRPVC (#8 GND)	85	0
N067	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL	12C #12 SHLD FRPVC (#6 GND)	85	0
N068	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	TAP POSIND	4C #16 SHLD FRPVC (#8 GND)	85	0
N069	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	FIRE DETECTION	3C#18 FAS AIA CABLE (GND)	85	0
N070	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	CONTROL	3C #12 SHLD FRPVC (#8 GND)	85	0
N071	TRANSFORMERFORMER T1 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	T1 PQM CT PM 8244	4C #10 SHLD FRPVC (#8 GND)	65	0
N072	TRANSFORMERFORMER T2 MECH BOX	125V DC TERM RACK ROW `XX` MOD `XX' IN E HOUSE	T2 PQM CT PM 8244	4C #10 SHLD FRPVC (#8 GND)	85	0

	STATION : Mc MASTER NF-91 AC STATION SERVICE CABLE LIST			Revision #:	00	
Cable No.	**From**	**To**	**Service**	**Description (GND Wire Size)**	**Length (m)**	**Rev'd On**
SN001	STATION SERVICE TRANS TSS1 IN 13.8KV YARD	120/208V AC STATION SERVICE PANEL AC PL1	120/208V AC SUPPLY	4C 250 TECK (#1/0 GND)	40	0
SN002	STATION SERVICE TRANS TSS2 IN 13.8KV YARD	120/208V AC STATION SERVICE PANEL AC PL2	120/208V AC SUPPLY	4C 250 TECK (#1/0 GND)	65	0
SN003	120/208V AC STATION SERVICE PANEL AC PL1 CCT# 7	AUTO TRANSFER SWITCH T1 MAIN 100A 120/208V AC	120/208V AC SUPPLY	4C #2 TECK (#6 GND)	5	0
SN004	120/208V AC STATION SERVICE PANEL AC PL1 CCT# 8	AUTO TRANSFER SWITCH T2 ALT. 100A 120/208V AC	120/208V AC SUPPLY	4C #2 TECK (#6 GND)	5	0
SN005	AUTO TRANSFER SWITCH T1 100A 120/208V AC	POWER TRANSFORMER T1 MECH BOX	120/208V AC SUPPLY	4C #1 TECK (#10 GND)	60	0
SN006	120/208V AC STATION SERVICE PANEL AC PL1 CCT# 17	DISCONNECT SWITCH 91-B4 MECH BOX.	120/208V AC SUPPLY	2C #8 TECK (#10 GND)	40	0
SN007	120/208V AC STATION SERVICE PANEL AC PL1 CCT# 18	DISCONNECT SWITCH 91-T1-A MECH BOX.	120/208V AC SUPPLY	2C #8 TECK (#10 GND)	52	0
SN008	120/208V AC STATION SERVICE AC PL1, CCT#22	13.8KV TRANS T1 REVENUE METERING CABINET	120V AC POWER SUPPLY	2C #8 TECK (#10 GND)	50	0
SN009	120/208V AC STATION SERVICE AC PL1, CCT#28	115KV YARD LIGHT CCT# 1	120/208V AC SUPPLY	2C #8 TECK (#10 GND)	50	0
SN010	AC STATION SERVICE PANEL AC PL1 CCT# 45	DEISEL GENERATOR CONNECTION POINT	120/208V AC SUPPLY	4C 3/0 TECK (#1/0 GND)	10	0
SN011	120/208V AC STATION SERVICE PANEL AC PL2 CCT# 7	AUTO TRANSFER SWITCH T2 MAIN 100A 120/208V AC	120/208V AC SUPPLY	4C #2 TECK (#6 GND)	5	0
SN012	120/208V AC STATION SERVICE PANEL AC PL1 CCT# 8	AUTO TRANSFER SWITCH T1 ALT. 100A 120/208V AC	120/208V AC SUPPLY	4C #2 TECK (#6 GND)	5	0
SN013	AUTO TRANSFER SWITCH T2 100A 120/208V AC	POWER TRANSFORMER T2 MECH BOX	120/208V AC SUPPLY	4C #1 TECK (#10 GND)	80	0
SN014	120/208V AC STATION SERVICE PANEL AC PL2 CCT# 17	DISCONNECT SWITCH 91-B3 MECH BOX.	120/208V AC SUPPLY	2C #6 TECK (#8 GND)	70	0
SN015	120/208V AC STATION SERVICE PANEL AC PL2 CCT# 18	DISCONNECT SWITCH 91T2-A MECH BOX.	120/208V AC SUPPLY	2C #6 TECK (#8 GND)	65	0
SN016	120/208V AC STATION SERVICE PANEL AC PL2 CCT# 20	DISCONNECT SWITCH 91A2-A3 MECH BOX.	120/208V AC SUPPLY	2C #8 TECK (#10 GND)	40	0
SN017	120/208V AC STATION SERVICE AC PL2, CCT#22	28KV TRANS T2 REVENUE METERING CABINET	120V AC POWER SUPPLY	2C #6 TECK (#8 GND)	75	0
SN018	120/208V AC STATION SERVICE AC PL2, CCT#28	115KV YARD LIGHT CCT# 2	120/208V AC SUPPLY	2C #8 TECK (#10 GND)	50	0