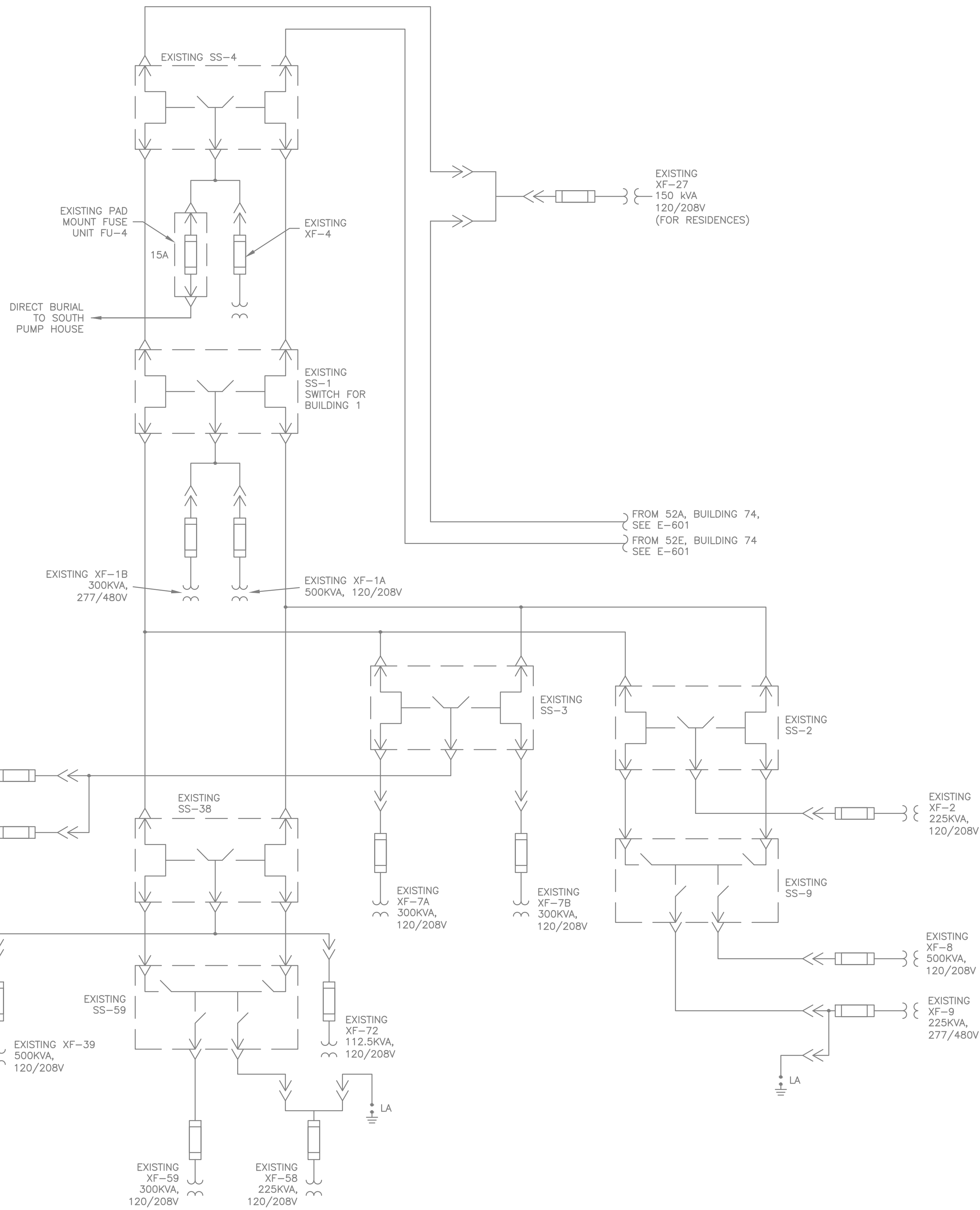


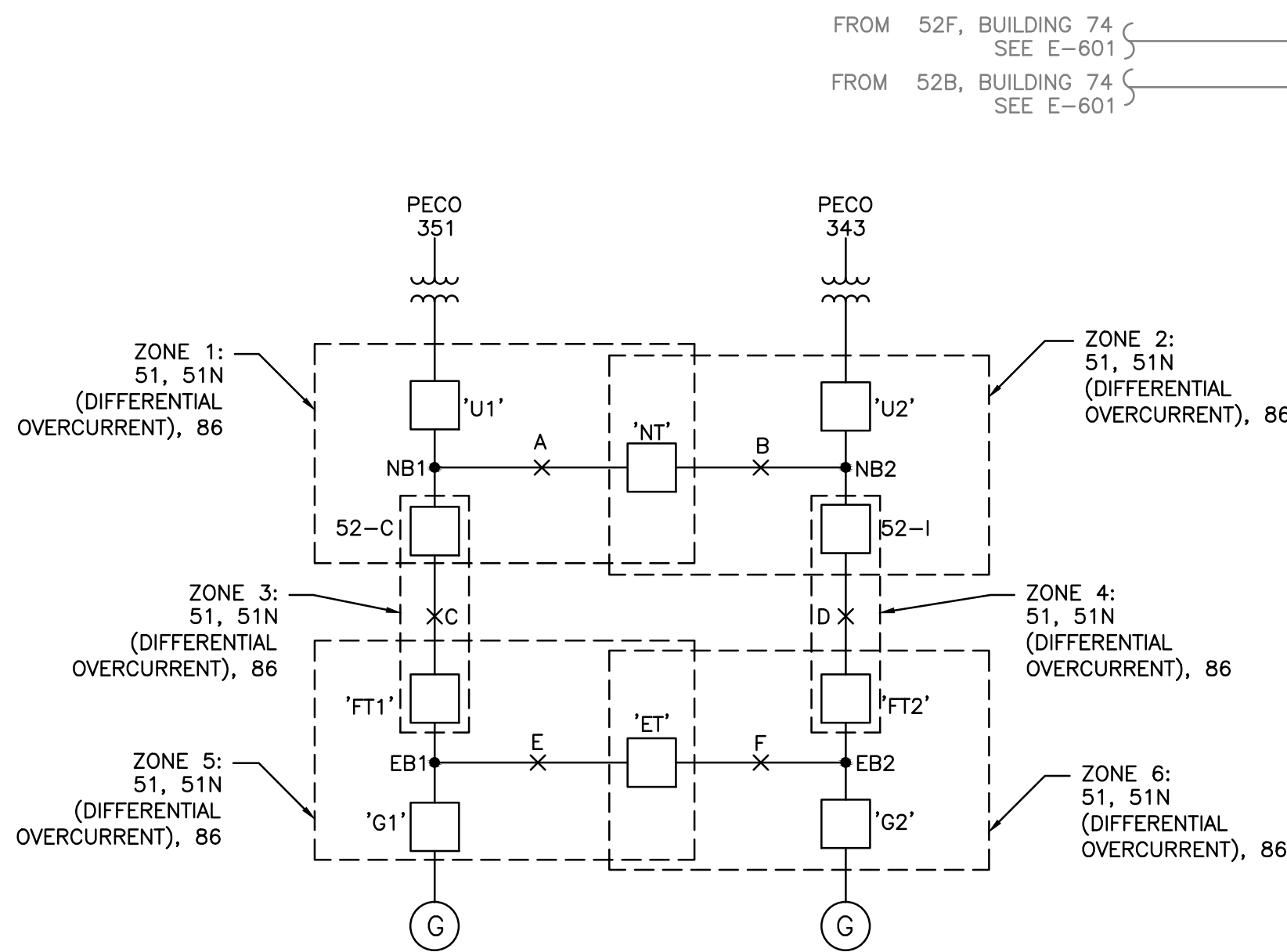
0 6" three inches = one foot
0 6" one and one half inches = one foot
0 6" one inch = one foot
0 6" three quarters inch = one foot
0 6" one half inch = one foot
0 6" one quarter inch = one foot
0 6" three eighths inch = one foot
0 6" one eighth inch = one foot



1 13.8 KV SINGLE-LINE DIAGRAM (PART 2 OF 3) FOR REFERENCE ONLY
E-602 SCALE NTS

NOTES:

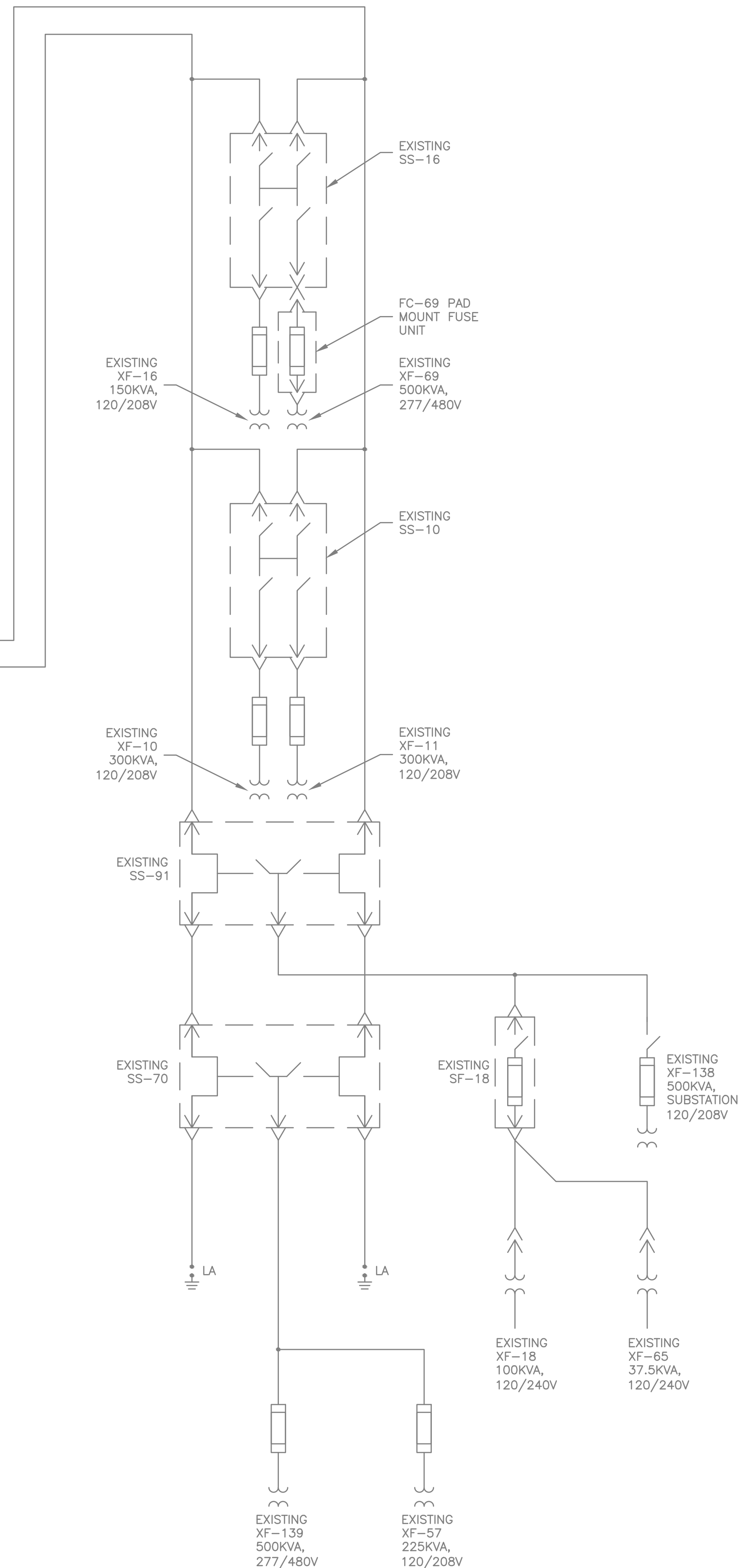
- EXISTING MV DISTRIBUTION SHOW FOR REFERENCE PURPOSES.
- WORK REQUIRING DROPPING LOADS SHALL BE PLANNED AND COORDINATED WITH COTR. 15 DAYS NOTICE SHALL BE PROVIDED OF PLANNED OUTAGES, WHICH SHALL BE KEPT TO A MINIMUM AND MUST RECEIVE PRIOR COTR APPROVAL REGARDLESS OF NOTIFICATION.
- PRIOR TO DROPPING SWITCHGEAR BUS NB1, CONTROL POWER SHOULD BE TRANSFERRED TO NB2. COTR MAY WISH TO TRANSFER SWITCHES SS-1, SS-4, SS-9, SS-38, AND SS-39 TO CIRCUIT 52-E. NOTE THAT TRANSFORMER XF-27 IS SUPPLIED ONLY FROM NB1 VIA 52-A.
- PRIOR TO DROPPING SWITCHGEAR BUS NB2, CONTROL POWER SHOULD BE TRANSFERRED TO NB1. COTR MAY WISH TO TRANSFER SWITCHES SS-10, SS-16, SS-70, AND SS-91 TO CIRCUIT 52-B. NOTE THAT TRANSFORMERS XF-14A, XF-14B, XF-15, XF-17, AND XF-70 ARE SUPPLIED ONLY FROM NB2 VIA CIRCUIT 52-C.
- OPERATION OF SWITCHGEAR SHALL BE PERFORMED ONLY BY VAMC ELECTRICAL PERSONNEL. CONTRACTOR PERSONNEL SHALL NOT OPERATE IN-SERVICE ELECTRICAL SYSTEMS OR COMPONENTS UNLESS SPECIFICALLY AUTHORIZED BY COTR OR REQUIRED DUE TO EMERGENCY.



NOTES:

- 'U1', 'U2', 'NT', 52-C, 52-L, 'FT-1', 'FT-2', 'G1', 'G2', 'ET' DO NOT TRIP SOLELY DUE TO FAULT CURRENT THROUGH THE DEVICE, BUT TRIP IN COORDINATION TO ISOLATE AN ASSOCIATED BUS OR FEEDER TIE FAULT, AS SHOWN.
- MINIMUM LT SETTING TO PREVENT SPURIOUS TRIP.
- CONTRACTOR SHALL PERFORM COORDINATION STUDY TO VERIFY DISTRIBUTION SYSTEM WILL CLEAR AT A DOWNSTREAM DEVICE PRIOR TO BUS FAULT PROTECTIVE ACTION DROPPING A BUS DUE TO AN EXTERNAL FAULT.
- SWITCH BOARD CONTROL SYSTEM SHALL PERFORM AUTOMATIC RECOVERY TO RESTORE PARTIAL SERVICE AFTER FAULT IS ISOLATED.
- ACTION TAKEN ONLY WHEN SERVICE IS SUPPLIED BY A UTILITY SOURCE. SHOULD FAULT OCCUR WHEN ON EMERGENCY GENERATOR(S), 'FT1' & 'FT2' REMAIN OPEN.

3 FAULT ISOLATION AND RECOVERY
E-602 SCALE NTS



2 13.8 KV SINGLE-LINE DIAGRAM (PART 3 OF 3) FOR REFERENCE ONLY
E-602 SCALE NTS

100% CONSTRUCTION DOCUMENTS

PATIENT SAFETY MANAGER		INFECTION PREVENTIONIST		SUPERVISOR, PROJECT SECTION		PROJECT MANAGER (COTR)	
SUPERVISION, BIOMEDI/ M&O		ENVIRON HEALTH FIRE/SAFETY SECTION		SAFETY/OCCUPATIONAL HEALTH MANAGER		CHIEF, ACQUISITION MGT SECT, CONTRACTING OFFICER	
VA POLICE CHIEF		PATIENT CARE SECTION		GENERAL PROPERTIES SECTION		GENERAL UTILITIES SECTION	
Revisions		Date					

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WSP • SELLS Transportation & Infrastructure		LandDesign			

Drawing Title 13.8 KV SINGLE-LINE DIAGRAM (SHEET 2 OF 2)		Project Title COATESVILLE - VA MEDICAL CENTER AVE INSTALL EMERGENCY GENERATOR		Date 9/23/11	
Approved: Chief Engineering Service		Drawn DJR/NAC		Project No. 542-11-104	
Approved: Medical Center Director		Checked JMB/JDC		Building Number ---	
				Location COATESVILLE, PENNSYLVANIA	
				Drawing No. E-602	
				Dwg. 14 Of 16	

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