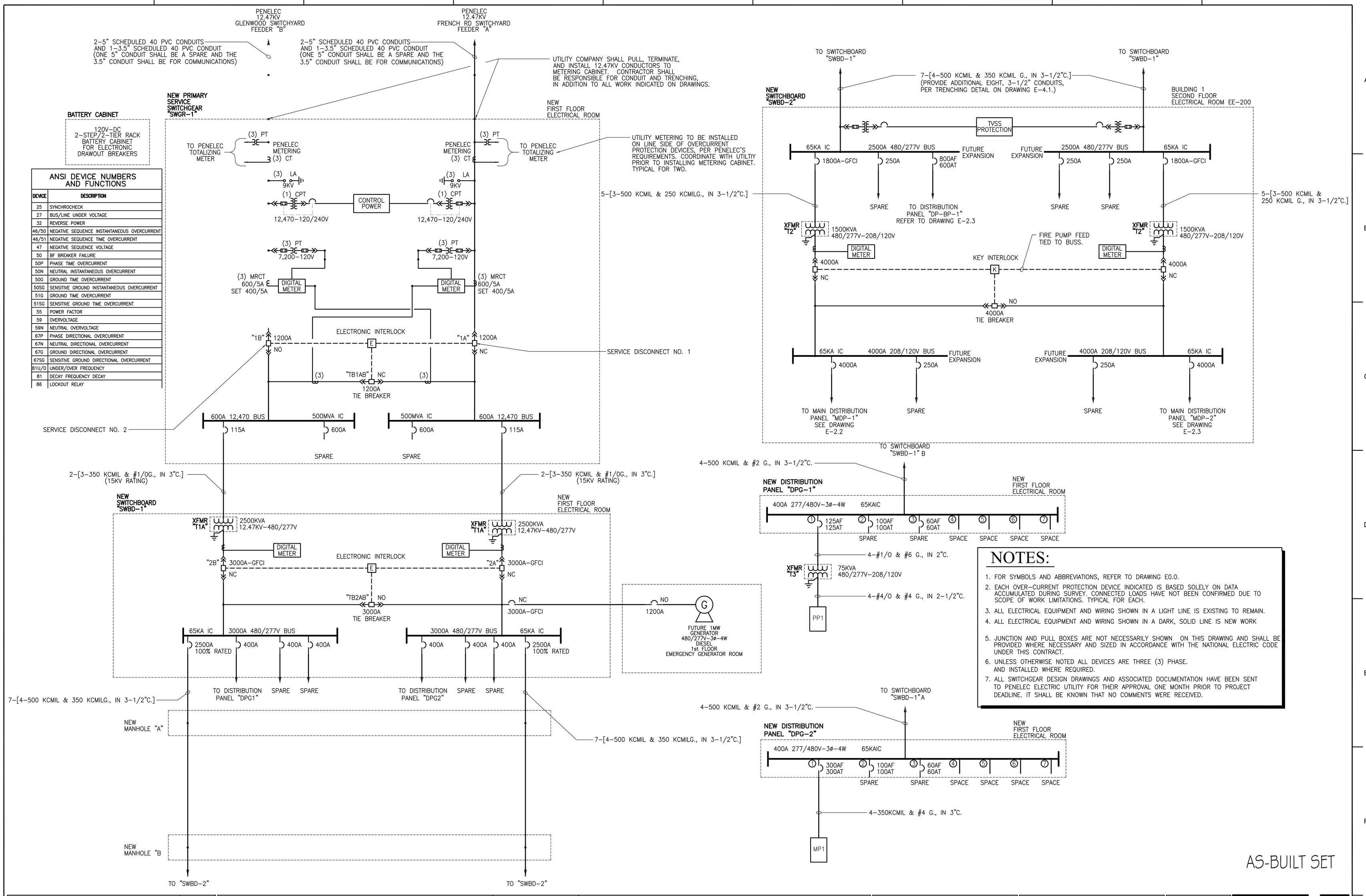

ANSI DEVICE NUMBERS AND FUNCTIONS

DEVICE	DESCRIPTION
25	SYNCHROCHECK
27	BUS/LINE UNDER VOLTAGE
32	REVERSE POWER
46/50	NEGATIVE SEQUENCE INSTANTANEOUS OVERCURRENT
46/51	NEGATIVE SEQUENCE TIME OVERCURRENT
47	NEGATIVE SEQUENCE VOLTAGE
50	BF BREAKER FAILURE
50P	PHASE TIME OVERCURRENT
50N	NEUTRAL INSTANTANEOUS OVERCURRENT
50G	GROUND TIME OVERCURRENT
50SG	SENSITIVE GROUND INSTANTANEOUS OVERCURRENT
51G	GROUND TIME OVERCURRENT
51SG	SENSITIVE GROUND TIME OVERCURRENT
55	POWER FACTOR
59	OVERVOLTAGE
59N	NEUTRAL OVERVOLTAGE
67P	PHASE DIRECTIONAL OVERCURRENT
67N	NEUTRAL DIRECTIONAL OVERCURRENT
67G	GROUND DIRECTIONAL OVERCURRENT
67SG	SENSITIVE GROUND DIRECTIONAL OVERCURRENT
81U/O	UNDER/OVER FREQUENCY
81	DECAY FREQUENCY DECAY
86	LOCKOUT RELAY

NOTES:

1. FOR SYMBOLS AND ABBREVIATIONS, REFER TO DRAWING E0.0.
2. EACH OVER-CURRENT PROTECTION DEVICE INDICATED IS BASED SOLELY ON DATA ACCUMULATED DURING SURVEY. CONNECTED LOADS HAVE NOT BEEN CONFIRMED DUE TO SCOPE OF WORK LIMITATIONS. TYPICAL FOR EACH.
3. ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A LIGHT LINE IS EXISTING TO REMAIN.
4. ALL ELECTRICAL EQUIPMENT AND WIRING SHOWN IN A DARK, SOLID LINE IS NEW WORK
5. JUNCTION AND PULL BOXES ARE NOT NECESSARILY SHOWN ON THIS DRAWING AND SHALL BE PROVIDED WHERE NECESSARY AND SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE UNDER THIS CONTRACT.
6. UNLESS OTHERWISE NOTED ALL DEVICES ARE THREE (3) PHASE. AND INSTALLED WHERE REQUIRED.
7. ALL SWITCHGEAR DESIGN DRAWINGS AND ASSOCIATED DOCUMENTATION HAVE BEEN SENT TO PENELEC ELECTRIC UTILITY FOR THEIR APPROVAL ONE MONTH PRIOR TO PROJECT DEADLINE. IT SHALL BE KNOWN THAT NO COMMENTS WERE RECEIVED.

AS-BUILT SET

Revisions	Date

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL HERMAN A. HANEMANN, JR. ENGINEER No.10692-E

Professional Seal

ENGINEER:

GARY TRAVINSKI ASSOCIATES
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94 BOSTON HILL – LARKSVILLE, PENNSYLVANIA 18651 – Telephone: (570) 779-7843 – WWW.GTAENGS.COM

Drawing Title: SLD – NEW ELEC DISTRIBUTION	Project Title: REPLACE ELECTRICAL SWITCHGEAR		Date: 01-28-11
Approved: Project Manager: EMILY McDONALD	Building Number: AS NOTED	Checked: D.A.O. / Drawn: D.A.O.	Project No. 562-07-101
Approved: Service Chief: SUSAN LANG	Location: VAMC, ERIE PENNSYLVANIA		Drawing No. E-2.1 Dwg. _ of _

VAMC, ERIE

VA Department of Veterans Affairs