

Cable Schedule							
Circuit Id	Voltage Rating	Conductor Quantity, Size and Material	Wire Type	Quantity of Conduits	Size of Conduits	Conduit Type	Notes
A	35kV	(3) #4/D AWG AL, (1) #4/D AWG AL N	Covered ACSR	-	-	-	MV Overhead
B	35kV	(3) 350 KCMIL AL Jacketed Concentric Neutral	MV-105	1	5"	PVC	MV Underground XLP/133%
C	480V	5 Sets (1) 500 KCMIL AL, (1) 500 KCMIL AL G	XHHW-2	5	3"	PVC	Megapack Output
D	-	(1) CAT6 or (1) Fiber Optic	-	1	1"	PVC	Communications

Inverter Protection Settings					
Inverter Protective Function	Enabled	Pickup	Unit	Total Clearing Time Cyc. (Sec.)	Description
27-1	Y	50%	V (L-L)	66 (1.1)	Under Voltage
27-2	Y	88%	V (L-L)	180 (3)	
27-3	N	-	-	-	
59-1	Y	110%	V (L-L)	120 (2)	Over Voltage
59-2	Y	120%	V (L-L)	9.6 (0.16)	
59-1	N	-	-	-	
81U-1	Y	56.5	Hz	9.6 (0.16)	Under Frequency
81U-2	Y	58.5	Hz	18000 (300)	
81O-1	Y	61.2	Hz	18000 (300)	Over Frequency
81O-2	Y	62	Hz	9.6 (0.16)	
79	Y	95%	V (L-L)	18000 (300)	Under Voltage
79	Y	105%	V (L-L)	18000 (300)	Over Voltage
79	Y	59.3	Hz	18000 (300)	Under Frequency
79	Y	60.5	Hz	18000 (300)	Over Frequency

Voltage setting values are L-L
Settings are based on IEEE-1547 and utility requirements

Relay Protection Settings							
Relay Protective Functions	Trip Output	Enabled	Voltage Settings (Sec.) Pri (P.U.)	Frequency Setting (Hz)	Total Clearing Time Cyc. (Sec.)	Current Setting Sec (PR)	Relay Setting Time Cyc. (Sec.)
27P1 - Fast Undervoltage	X	Y	(60) 9959.3 (50%)	-	66 (1.1)	-	-
27P2 - Undervoltage	X	Y	(105.6) 17528.4 (88%)	-	180 (3)	-	-
27P3 - Undervoltage	-	N	-	-	-	-	-
59P1 - Overvoltage	X	Y	(132) 21910.4 (110%)	-	120 (2)	-	-
59P2 - Fast Overvoltage	X	Y	(144) 23902.3 (120%)	-	9.6 (0.16)	-	-
59N - Neutral Voltage Displacement	X	Y	(12) 1991.9 (10%)	-	80 (1.33)	-	-
81UP1 - Underfrequency	X	Y	-	56.5	9.6 (0.16)	-	-
81UP2 - Underfrequency	X	Y	-	58.5	18000 (300)	-	-
81OP1 - Overfrequency	X	Y	-	61.2	18000 (300)	-	-
81OP2 - Overfrequency	X	Y	-	62	9.6 (0.16)	-	-
51 - Overcurrent	X	Y	-	-	CURVE: U4 TD: 2.0	0.52 (104.6A)	-
50 - Instantaneous Overcurrent	-	N	-	-	-	-	-
67 - Directional Overcurrent	-	N	-	-	-	-	-
53G - Instantaneous Ground Overcurrent	-	N	-	-	-	-	-
S1G - Ground Overcurrent	X	Y	-	-	CURVE: U4 TD: 1.0	0.17 (34.9A)	-
79 - Recloser	-	Y	(114) 18922.7 (95%) ≤ V ≤ (126) 20914.5 (105%)	59.3 ≤ f ≤ 60.5	18000 (300)	-	-
32 - Directional Power	-	N	-	-	-	-	-
Alarm	X	Y	-	-	<120	-	-

Primary voltage setting values are L-L
Time delay shown is total clear time, which includes mechanical operation time of 3 cycles (0.05 sec)

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Rev	Issued For	Date	Init
A	UIA	12/24/2025	MA
B	UIA	01/02/2026	MA
C	UIA	01/09/2026	MA



PROJECT: **133809 - Jerry Smith Storage**
 Jerry Smith Rd,
 Lansing, NY, 14882
 42.590659, -76.564286

Drawing Title: **AC Single Line Diagram**
 Scale: N.T.S.
 Dwg No: **E-601** Size: D Sheet Rev: **C**

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Approved
M. Mehboob 09/01/2026

GRIT APPROVAL
Reviewed By: T. Altuf
Date: 01/09/2026

NOTE: NOT FOR CONSTRUCTION. FOR UTILITY INTERCONNECTION APPLICATION PURPOSES ONLY.

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