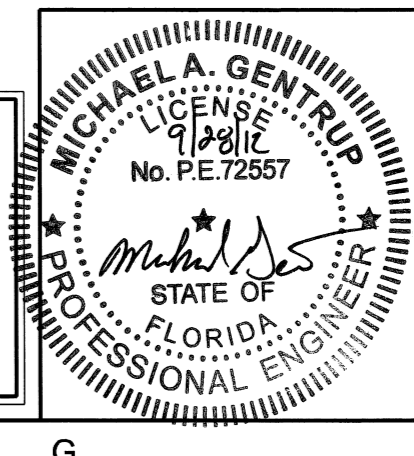


- LEGEND**
- [RTD] RESISTANCE TEMPERATURE DETECTOR
 - [VAN] SINGLE PHASE VOLTAGE, PHASE A TO NEUTRAL
 - [RES] RESISTANCE GROUNDING SYSTEM
 - INSTRUMENT SIGNAL
 - GCT CURRENT TRANSFORMER GROUND SENSOR
 - FIBER OPTIC CABLE
 - (50LJ) LOAD JAM
- GENERAL NOTES**
1. FIBER OPTIC CABLE TERMINATED AT FIBER PATCH PANEL LOCATED INSIDE OF SWITCHGEAR.
 2. FIBER OPTIC PATCH CABLE FURNISHED AND INSTALLED BY MANUFACTURER. TO BE ROUTED BETWEEN DEVICES AS SHOWN. FIBER CABLE SHALL BE MULTIMODE, 2-FIBER, 62.5 MICRON WITH TYPE ST CONNECTORS ON BOTH ENDS.
 3. FIBER OPTIC CABLE FURNISHED AND INSTALLED BY CONTRACTOR.
 4. SELLER SHALL INSTALL THE RTD MODULE IN A NEMA 4X PANEL AND SHIP LOOSE INSIDE OF THE POWER DISTRIBUTION CENTER BUILDING AS SPECIFIED IN SECTION 262600.
 5. AFD LOCATED IN OUTDOOR ENCLOSURE ADJACENT TO BOILER ISLAND.
 6. CORE-BALANCE CURRENT TRANSFORMER (1 SET) PROVIDED BY MOTOR VENDOR.
 7. FIBER OPTIC CABLE TERMINATED AT FIBER PATCH PANEL LOCATED INSIDE OF RTD MODULE NEMA 4X PANEL DESCRIBED IN NOTE 4.

- REFERENCE DRAWINGS**
1. ANNOTATIONS, ABBREVIATIONS AND ASSOCIATIONS ELECTRICAL SYMBOLS LIST AND GENERAL NOTES D014200-AAAE11001 SH01-SH02
 2. LOW VOLTAGE AC POWER SYSTEM: 480V SWITCHGEAR ELA-SG-1002 ONE-LINE DIAGRAM D014200-ELAE11002 SH01
 3. MEDIUM VOLTAGE AC: 4160V SWITCHGEAR EMA-SG-1001 ONE-LINE DIAGRAM D014200-EMAE11001 SH01
 4. LOW VOLTAGE AC POWER SYSTEM: 480V SWITCHGEAR ELA-SG-1004 ONE-LINE DIAGRAM D014200-ELAE11004 SH01
 5. MEDIUM VOLTAGE AC: 4160V SWITCHGEAR EMA-SG-1006 ONE-LINE DIAGRAM D014200-EMAE11006 SH01
 6. LOW VOLTAGE AC POWER SYSTEM: 480V MCC ELA-MC-1008 ONE-LINE DIAGRAM D014200-ELAE11021
 7. 138KV GREC SUBSTATION ONE-LINE 138KV BIOMASS PLANT M014200-ELAE 00001 SH01 R1
 8. EMA-SG-1001/1002 MASTERCLAD SWITCHGEAR ONE-LINE DIAGRAM M014200-PDCE00043 SH01 RP2, SH02 RA, SH03 RA, AND SH04 RP1
 9. EMA-SG-1002 MEDIUM VOLTAGE MCC ONE-LINE DIAGRAM M014200-PDCE00060 SH01 RA AND SH02 RA

EXTENSIVE CHANGES
REVIEW THOROUGHLY



2	REVISED DESIGN INFORMATION AND ADDED GENERAL NOTES AND REFERENCE DRAWINGS	2/22/22	LM	MDP	EN
1	REVISED CT CONNECTION	11/09/11	LEP	LM	MDP
0	ISSUED FOR BID				
NO.	REVISION	DATE	DRAWN	DSNO	CHKD

Gainesville Renewable Energy Center
An American Renewables Company

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GAINESVILLE RENEWABLE ENERGY CENTER
MEDIUM VOLTAGE AC
4160V SWITCHGEAR EMA-SG-1002
ONE-LINE DIAGRAM

DRAWN	CHECKED	DATE	SCALE
L. PETERSEN	J. STEWELL		
APPROVED BY	DRAWING NUMBER	SHEET	REV
M. A. GENTRUP	D014200-EMAE11002	01	2