

NOTE:
IF PV IS INTERCONNECTED VIA A BUS TAP IN THE MAIN SWITCHGEAR, UTILITY METERED LOAD CT'S SHOULD BE INSTALLED ON THE LINE SIDE OF THE TAP

NOTE:
AGGREGATED PV OUTPUT MEASUREMENTS ARE MADE USING THREE CT'S MEASURING EACH PHASE OF THE OUTPUT CONDUCTORS.

NOTE:
FOR CONVEYING METERING POINTS ONLY. SOLAR INVERTERS WILL HAVE A METERING DESIGN SPECIFIC TO MEET THE SITE DESIGN.

CTS PROVIDED BY ETB. VOLTAGE, AMPERAGE AND PHYSICAL DIMENSIONS OF MEASURED CONDUCTORS/BUS SPECIFIED BY OTHERS

CT LEADS SHOULD NOT EXCEED 100FT. IF EXTENDING FACTORY LEADS, MUST USE SHIELDED TWISTED PAIR OF MATCHING GAUGE. MANUFACTURER RECOMMENDS ANY SPLICES BE SOLDERED

NOTE:
INTERNET CONNECTION TO BE PROVIDED BY INSTALLER. LTE PLANS AND HARDWARE AVAILABLE FROM ETB AT AN ADDITIONAL COST

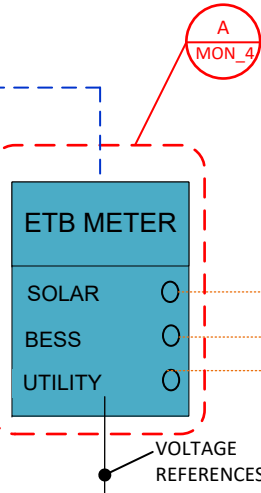
ENERGY TOOLBASE KIT

ETHERNET FROM METER TO SITE INTERNET CONNECTION

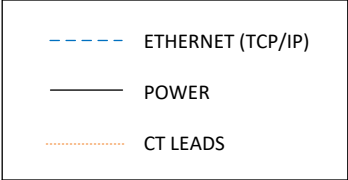
NOTE:
ENERGY TOOLBASE KIT TO BE LOCATED WITHIN A IP66 RATED ENCLOSURE PROVIDED BY ETB.

INSTALLATION OF THE EQUIPMENT ON-SITE ALONG WITH ANY REQUIRED FIELD CONNECTIONS TO EQUIPMENT, SUCH AS CTS AND REFERENCE VOLTAGES TO BE PERFORMED BY EPC.

ALL OTHER EQUIPMENT AND CONNECTIONS OUTSIDE OF ETB KIT PROVIDED BY OTHERS.



NOTE:
VOLTAGE TAPS **MUST** BE TAKEN AT THE SAME REFERENCE VOLTAGE (LOAD) THE CTS ARE MEASURING. IDEALLY THIS WOULD BE WITHIN THE SAME PANELBOARD THAT THE SITE LOAD CTS ARE LOCATED.



NOTE: ENERGY TOOLBASE HARDWARE KIT MAY INCLUDE MULTIPLE METERS AND VARIOUS HARDWARE KITS THAT MAY DIFFER FROM WHAT IS SHOWN HERE. SITE SPECIFIC HARDWARE TO BE DETERMINED DURING FORMAL QUOTING PROCESS



321 E. OSCEOLA ST.
STUART, FL 34994
(866) 303.7786

DESCRIPTION:
AGGREGATED PV MONITORING SCHEMATIC

SYSTEM TYPE:
GENERIC

BY				
DATE	08.21.23	09.26.24		
DESCRIPTION	SINGLE LINE PUBLISHED	ENCLOSURE DETAILS UPDATED		
REV.	1	2		



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ETB Installation
Manuals

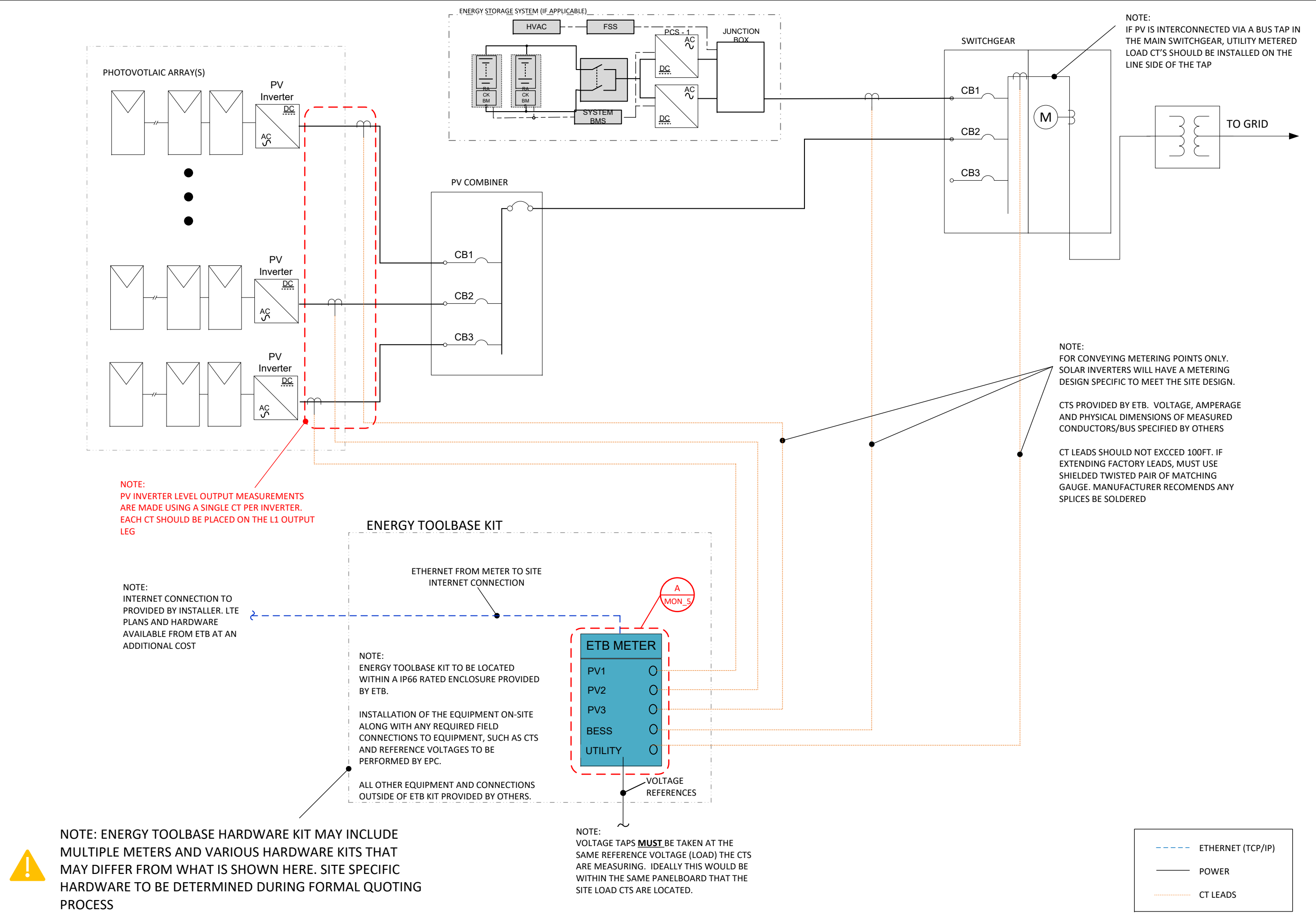
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MONITORING ONLY
SINGLE LINE


DRAWING NUMBER:
MON_1

SCALE:
NS

SHEET:
1 OF 6

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THIS DIAGRAM IS PROVIDED FOR REFERENCE ONLY AND IS SUBJECT TO CHANGE BASED ON USE CASE, ACTUAL CONDITIONS ELECTRICAL CODES, UTILITY REQUIREMENTS AND LOCAL CODE ENFORCEMENT.





energy
toolbase


A pason Company

321 E. OSCEOLA ST.
STUART, FL 34994
(866) 303.7786

DESCRIPTION:
MULTI INVERTER MONITORING
SCHEMATIC

SYSTEM TYPE:
GENERIC

BY					
DATE	08.21.23	09.26.24			
DESCRIPTION	SINGLE LINE PUBLISHED	ENCLOSURE DETAILS UPDATED			
REV.	1	2			



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Manuals

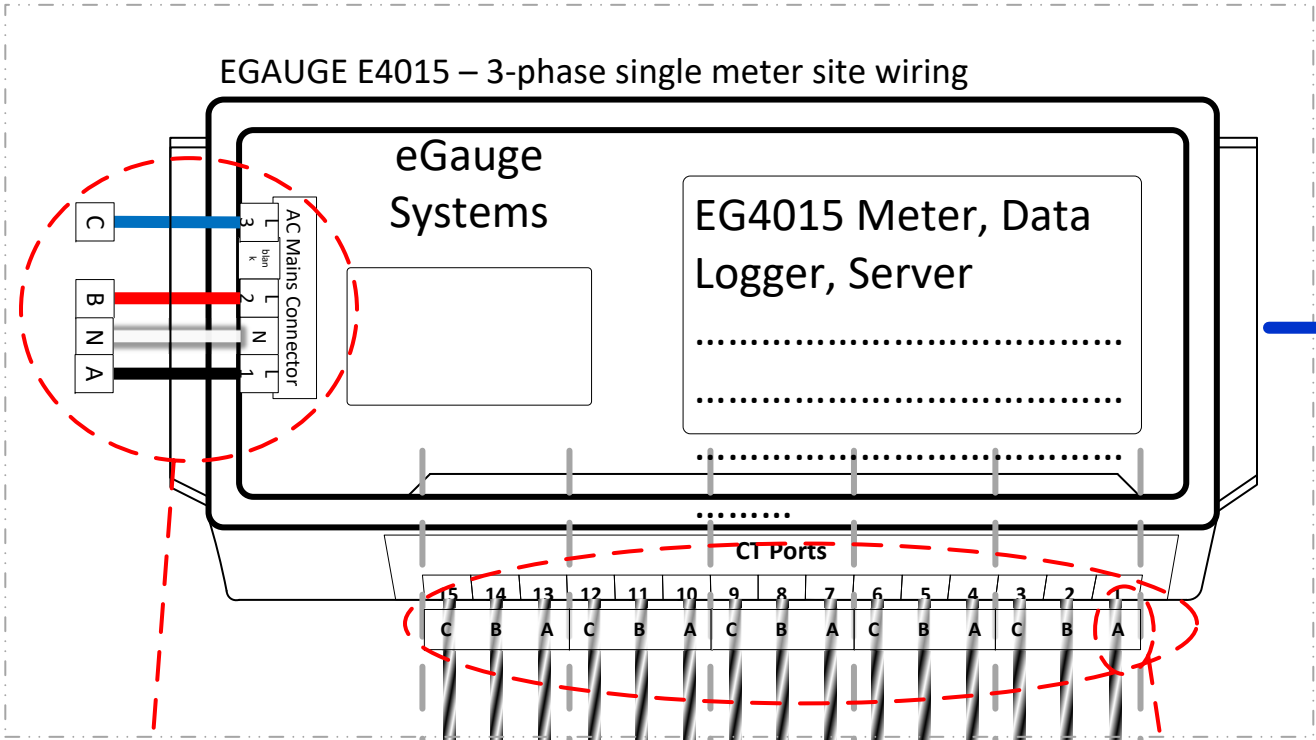
TITLE:
MONITORING ONLY
SINGLE LINE

DRAWING NUMBER:
MON_2

SCALE:
NS

SHEET:
2 OF 6

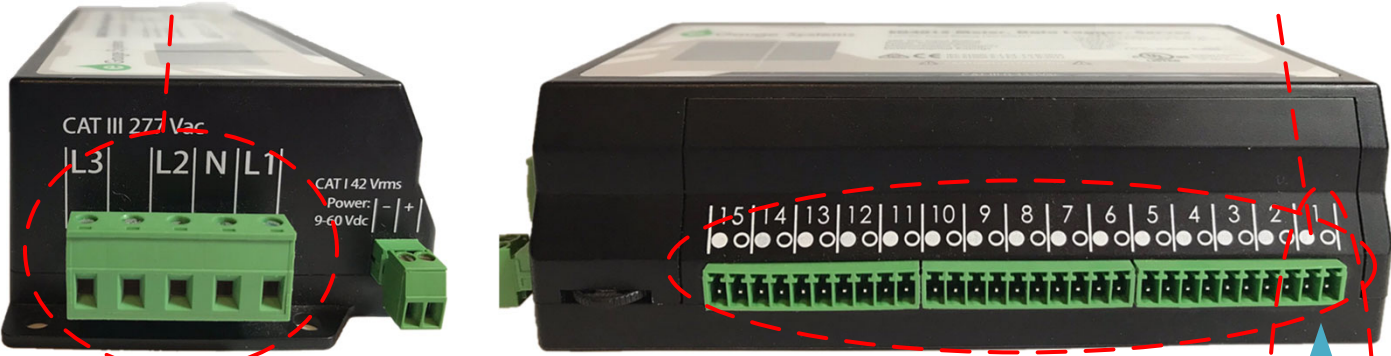
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CODES, UTILITY
REQUIREMENTS AND LOCAL
CODE ENFORCEMENT.



EGAUGE
ETHERNET
PORT TO SITE
INTERNET

NOTE: CT'S MUST BE INSTALLED ON THE PHASES AS NOTED IN THE DIAGRAM

EACH INDIVIDUAL CT LEAD **MUST** BE A TWISTED STRANDED PAIR OF SHIELDED WIRES



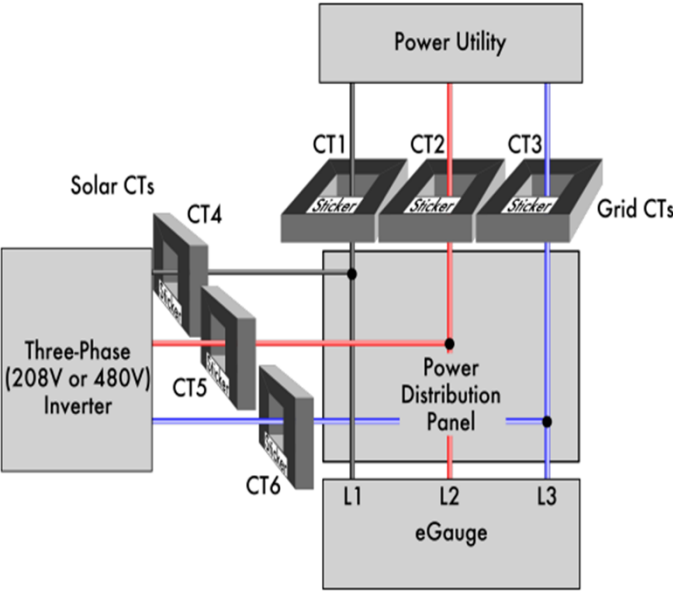
NOTES: VOLTAGE REFERENCE CONDUCTORS MAY BE BROWN/ ORANGE/YELLOW OR OTHER COLOR SCHEMES BASED ON CONNECTION VOLTAGE.

VOLTAGE TAPS **MUST** BE TAKEN AT THE SAME REFERENCE VOLTAGE (LOAD) THE CTS ARE MEASURING. IDEALLY THIS WOULD BE WITHIN THE SAME PANELBOARD THAT THE CTS ARE LOCATED.

CORRECT WIRING
FOR 2-PIN CT PLUG

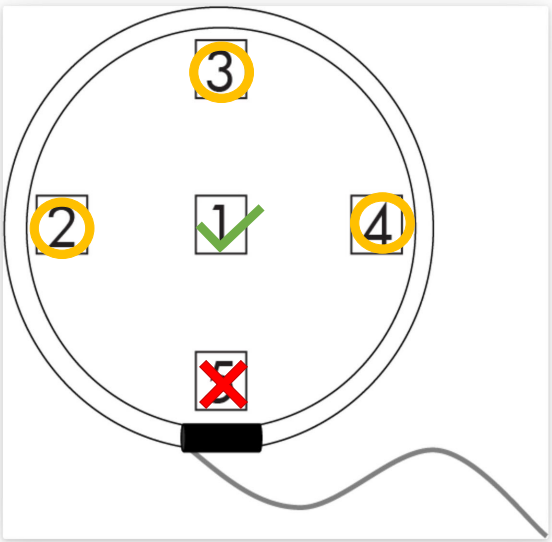
SOLID & SPLIT CORE CT INSTALLATION

SPLIT AND SOLID CORE CT'S SHOULD BE INSTALLED WITH THE STICKER SIDE FACING THE LOAD BEING MEASURED. CERTAIN CT'S MAY HAVE AN ARROW, IN WHICH CASE ENSURE THE ARROW IS POINTING TOWARDS THE LOAD BEING MEASURED



ROPE CT INSTALLATION

ROPE CT'S SHOULD BE INSTALLED PROPERLY TO REDUCE THE MAXIMUM ERROR BASED ON POSITIONING. IDEALLY THE CONDUCTOR BEING MONITORED WILL BE PERPENDICULAR TO THE ROPE CT LOOP, AND PASS THOUGH THE CENTER OF THE ROPE CT AS SHOWN BELOW. TIE-WRAPS OR OTHER NON-CONDUCTIVE FASTENERS CAN BE USED TO CENTER THE ROPE CT AROUND THE CONDUCTOR



Position Number	Position Description	Error
1	Centered	< 0.4%
2, 3, 4	Near outer edge	< 2.0%
5	Near connector	< 4.0%



321 E. OSCEOLA ST.
STUART, FL 34994
(866) 303.7786

DESCRIPTION:
METER & CT INSTALLATION
DETAILS

SYSTEM TYPE:
GENERIC

BY	KM	LL		
DATE	09.07.23	09.26.24		

DESCRIPTION	DETAILS PUBLISHED	ENCLOSURE DETAILS UPDATED		
1				
2				

REV.	1	2		
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Manuals

TITLE:
MONITORING ONLY
SINGLE LINE

DRAWING NUMBER:
MON_3

SCALE:
NS

SHEET:
3 OF 6

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CONDITIONS ELECTRICAL
CODES, UTILITY
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CODE ENFORCEMENT.

A EGAUGE METER CONNECTIONS

B CT INSTALLATION INFORMATION

