

**From:** Gina Wolfman <gina.wolfman@cleanfocus.us>  
**Sent:** Thursday, April 16, 2020 3:08 PM  
**To:** Bachman, Melanie <Melanie.Bachman@ct.gov>  
**Cc:** Fontaine, Lisa <Lisa.Fontaine@ct.gov>; Hoffman, Lee D. <LHoffman@PULLCOM.COM>; Gurren, Amanda G. <AGurren@pullcom.com>; Jean-Paul La Marche <jean-paul.lamarche@cleanfocus.us>; Carson Mislick <cmislick@greenskies.com>; Perrone, Michael <Michael.Perrone@ct.gov>; Walsh, Christina <Christina.Walsh@ct.gov>  
**Subject:** FW: CSCU Stonington - 35 Taugwonk Spur Rd. (Petition #1378) - Final Drawing(s) Submission

Ms. Bachman,

Good afternoon. Although revised/updated electrical design plans and civil permit plans were submitted to the Council on October 23, 2019 the intention was to update the Petition Appendices. Since the updated plans were submitted, our engineering team has coordinated with Eversource to finalize final interconnection design and has performed final geotechnical studies to inform (and develop) the structural design for the project's racking system.

The following link is submitted for full satisfaction of the following:

- Condition 5. Submission of the final electrical design plans and interconnection route;
- Condition 6. Submission of the final structural design (for the racking system) stamped by a Professional Engineer duly licensed in the state of Connecticut prior to rack system installations

In addition, the final civil engineering/construction plans are included and may be subject to Condition 3. Approval of any minor project changes be delegated to Council staff. At this time, due to Covid-19 and required business practices, we're not able to provide hard copies of all attached plans. We would be happy to do so as soon as we're able. Let me know if you have any questions. Thanks very much and be well.

<https://cfus.box.com/s/59ftqop9nhmhbnys6mo7bjjo2kmtibt1>

With kind regards,

*Gina L. Wolfman*

Senior Project Developer/  
Permitting Specialist

Greenskies Clean Energy

180 Johnson St. | Middletown, CT 06457

Mail: P.O. Box 251 | Middletown, CT 06457

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# PHOTOVOLTAIC MODULE GROUND MOUNT SYSTEM RBI SOLAR RACK MODEL: GM-2

FOR

## GREENSKIES CLEAN ENERGY

AT

STONINGTON TAUGWONK  
35 TAUGWONK SPUR ROAD  
STONINGTON, CT 06378



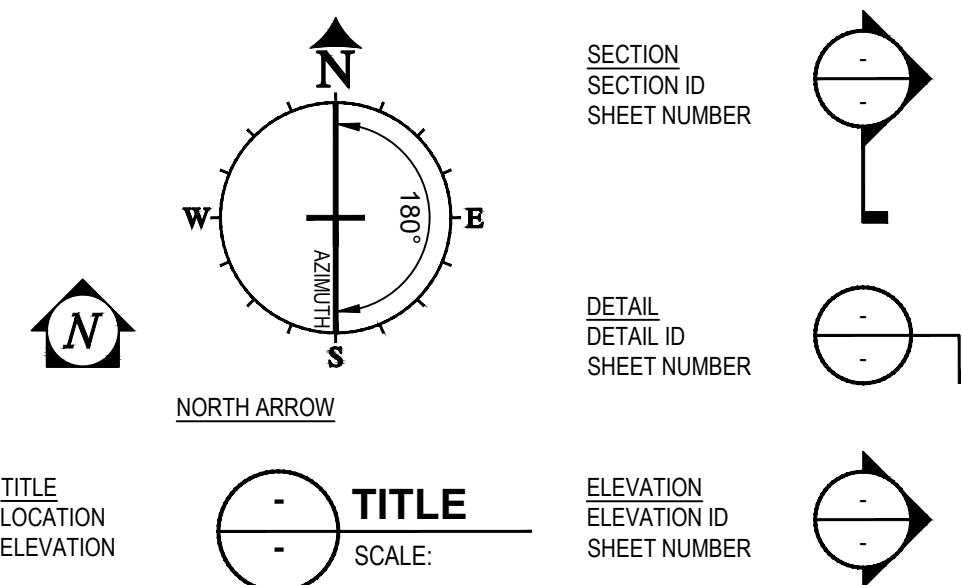
PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

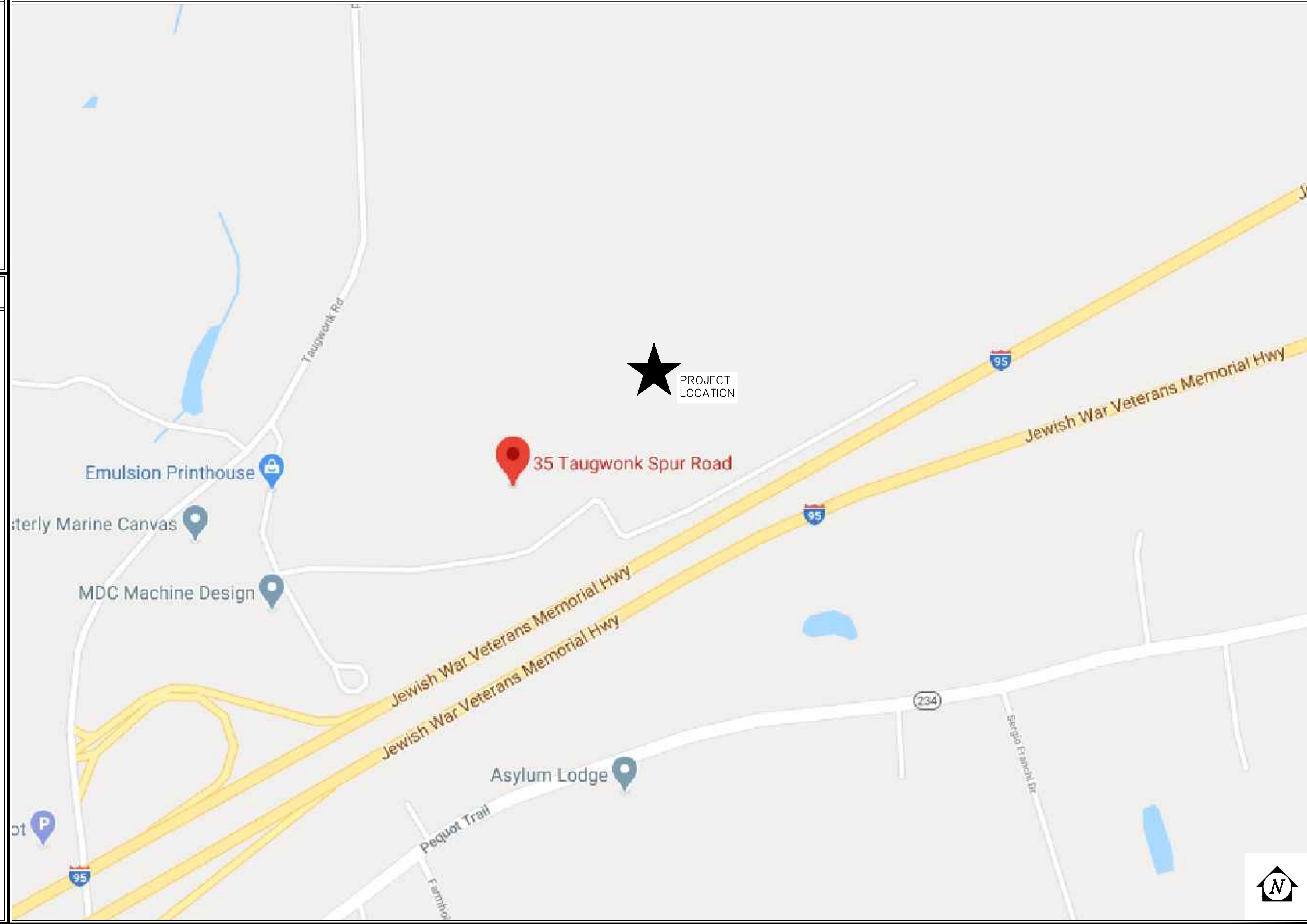


GROUND MOUNT FOR GREENSKIES CLEAN ENERGY

### SYMBOLS LEGEND



### VICINITY MAP



### SHEET INDEX

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### GOVERNING CODE

2018 CONNECTICUT STATE BUILDING CODE (IBC 2015)

RISK CATEGORY: I

DESIGN LOADS:

- DEAD LOADS:
    - STRUCTURE: 2.0 PSF
    - GLAZING: 3.0 PSF
    - Roof: 5.0 PSF
  - ROOF LIVE LOAD = 0 PSF
  - SNOW LOAD:
    - $P_g = 30.0$  PSF (GROUND SNOW)
    - $P_{gf} = 30.0$  PSF (FLAT ROOF SNOW)
    - $P_{gs} = 24.5$  PSF (SLOPED ROOF SNOW)
    - $C_d = 0.90$
    - $C_e = 1.20$
    - $C_{pe} = 0.82$
    - $C_{pi} = 0.82$
    - $I_e = 0.80$
  - WIND LOAD: (MAIN WIND FORCE RESISTING SYSTEM)
    - $V = 125$  MPH
    - EXPOSURE: C
  - SEISMIC:
    - $S_s = 0.159$
    - $S_1 = 0.058$
    - $S_{m1} = 0.170$
    - $S_{m2} = 0.093$
    - $I_m = 1.00$
    - SITE CLASS: D
    - SEISMIC DESIGN CATEGORY: B
    - SEISMIC FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM
    - DESIGN BASE SHEAR:  $V = 0.085W$
    - $C_u = 0.085$
    - $R = 2.00$
- EQUIVALENT LATERAL FORCE ANALYSIS

### CUSTOMER SPECIFICATIONS

NOTE: THIS SUBMITTAL/CONSTRUCTION SET WAS PRODUCED FROM DOCUMENTS RECEIVED FROM CUSTOMER ON 3/10/2020.

PARAMETER	CANADIAN SOLAR	CANADIAN SOLAR
PV MODULE MANUFACTURER	CANADIAN SOLAR	CANADIAN SOLAR
PV MODULE MODEL #	CS3W PB-AG	CS3U PB-AG
PV MODULE WATTAGE	400	360
# OF PV MODULES/STRING	26	26
# OF ACTIVE PV MODULES	7774	8294
# OF INACTIVE PV MODULES	0	0
TOTAL # OF PV MODULES	7774	8294
TOTAL PV SYSTEM WATTS	6.0954 MW DC	
TOPOGRAPHIC RELATIONSHIP	FOLLOW GRADE	
ARRAY TILT	25° +/- 2°	
MINIMUM MODULE CLEARANCE	3'-0"	
ARRAY AZIMUTH	180° (NOT ADJUSTED FOR MAGNETIC DECLINATION)	

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
2	03/10/20	90% REVIEW
1	02/28/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**  
35 TAUGWONK SPUR ROAD  
STONINGTON, CT 06378  
RBI SOLAR PROJECT No.: 2030067  
DRAWN BY: JAB REVIEWED BY: BDS / LKS  
SHEET TITLE: COVER SHEET  
SHEET No.: **SG001**

S:\RBI Solar Design\2020 Jobs\2030067 - Greenskies Renewable Energy - Stonington Taugwonk, CT\Drawings\2030067.dwg, 3/16/2020, 1:38:40 PM, jalknap

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MODULE SPECIFICATION SHEETS

GENERAL NOTES

GENERAL/CONSTRUCTION/SAFETY:

- 1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CONSTRUCTION CODE AND THE PROJECT SPECIFICATIONS.
2. LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. DIMENSIONS SHOWN ON PLAN SHALL BE VERIFIED IN FIELD.
4. LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
5. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
6. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. ANY UNEXPECTED CONDITIONS OR DISCREPANCIES WITH THE DESIGN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO INSTALLATION OR ERECTION OF MATERIALS.
7. THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. WHEN ON SITE, THE ENGINEER IS RESPONSIBLE FOR HIS OWN SAFETY BUT HAS NO RESPONSIBILITY FOR THE SAFETY OF OTHER PERSONNEL OR SAFETY CONDITIONS AT THE SITE.
8. NO PERSONNEL SHALL STEP OR STAND ON PHOTOVOLTAIC (PV) MODULES (SOLAR PANELS) AT ANY TIME. RACK STRUCTURE AND PV MODULES ARE NOT DESIGNED FOR LIVE LOADS AND MAY VOID WARRANTY.
9. THIS RIBI SOLAR CONSTRUCTION SET IS DESIGNED FROM PV MODULE DATA SHEET(S) PROVIDED BY THE CUSTOMER. CUSTOMER IS RESPONSIBLE FOR VERIFYING THAT THE PV MODULE(S) DELIVERED TO SITE MATCH DATA SHEET(S) PROVIDED TO RIBI SOLAR. RIBI SOLAR IS NOT RESPONSIBLE FOR PV MODULE DIMENSIONAL DISCREPANCIES DUE TO FURNISHED PV MODULES NOT MATCHING CUSTOMER FURNISHED PV MODULE DATA SHEETS.

SPECIAL FIELD INSPECTIONS:

SPECIAL INSPECTION NOT REQUIRED BY RIBI SOLAR. AS REQUIRED BY OWNER/CUSTOMER AND/OR AUTHORITY HAVING JURISDICTION, MINIMUM INSPECTION SHALL INCLUDE THE FOLLOWING NOTES AND TABLE:

- 1. ALL SPECIAL INSPECTORS SHALL BE RETAINED BY OWNER/CUSTOMER. THE EXTENT OF THE INSPECTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS, THE BUILDING CODE REQUIREMENTS, AND LOCAL JURISDICTION. IT IS THE OWNER/CUSTOMER'S RESPONSIBILITY TO GIVE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE WORK ONLY AFTER THE SPECIAL INSPECTOR'S APPROVAL.
2. FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN OWNER/CUSTOMER HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE OWNER'S/CUSTOMER'S EXPENSE.
3. PREMATURE NOTIFICATION FOR INSPECTION WILL RESULT IN AN ADDITIONAL INSPECTION WITH ALL EXPENSES AND FEES PAID BY THE OWNER/CUSTOMER.
4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. RECORDS SHALL BE FURNISHED TO THE OWNER, ENGINEER OF RECORD, AND LOCAL JURISDICTION AS REQUIRED. ANY AND ALL DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR. CORRECTIONS SHALL BE MADE AND A FINAL REPORT OF INSPECTIONS SHALL BE PROVIDED NOTING COMPLETION OF INSPECTIONS AND CORRECTIONS OF DISCREPANCIES. FAILURE TO CORRECT DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD AND THE LOCAL JURISDICTION AND MAY RESULT IN REMOVAL OF COMPLETED WORK AND ADDITIONAL WORK TO CORRECT DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.

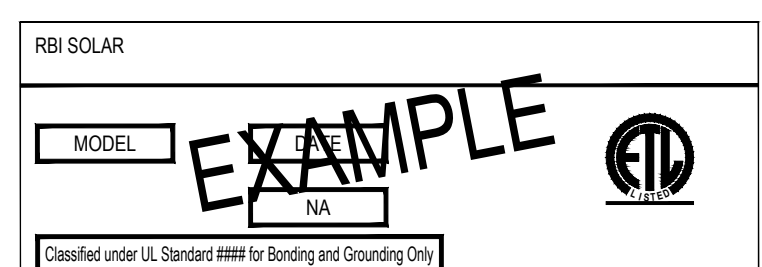
Table with 4 columns: STRUCTURAL STEEL/ALUMINUM FABRICATION, CONTINUOUS, PERIODIC, and rows for MATERIAL IDENTIFICATION, HIGH STRENGTH BOLTS, WELD FILLER MATERIALS, STRUCTURAL STEEL/ALUMINUM ERECTION, etc.

WORK BY OTHERS:

- 1. SITE WORK AND DEVELOPMENT.
2. ALL ELECTRICAL WORK INCLUDING WIRING, CONDUIT, PANELS AND LIGHTS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. GROUNDING REQUIREMENTS.
4. ALL SHADING ANALYSIS AND/OR PRODUCTION ANALYSIS SHALL BE PERFORMED AND VERIFIED BY OTHERS. RIBI SOLAR IS NOT RESPONSIBLE FOR PV SYSTEM DESIGN AS IT PERTAINS TO ELECTRICAL OR PV SYSTEM PRODUCTION.

ETL CLASSIFIED:

THIS PROJECT CONTAINS RACKING LABELED AS ETL CLASSIFIED UNDER UL SUBJECT 2703 OR UL STANDARD 2703. LABELS ARE APPLIED AT THE FACTORY ON COMPONENTS THAT MAY BE ASSEMBLED AT THE FACTORY OR IN THE FIELD. SEE DETAIL SHEET IN THIS DRAWING SET FOR MORE INFORMATION.



STRUCTURAL STEEL:

- 1. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF AISI "MANUAL OF STEEL CONSTRUCTION." LIGHT GAUGE COLD-FORMED SECTIONS SHALL CONFORM TO LATEST VERSION OF AISI SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. MATERIALS:
A. ROLLED SHAPES: ASTM A992 OR A572 GRADE 55, Fy = 55 KSI MINIMUM
B. PLATES: ASTM A36
C. TUBULAR SHAPES: ASTM A500 GRADE C, Fy = 50 KSI MINIMUM
D. FIELD BOLTS (TYP. U.N.O.): SAE J429 GRADE 5
E. SCREWS: #12 TEKS - GALVANIZED
F. COLD-FORMED/LIGHT GAUGE: ASTM A653 GRADE 55
G. ANCHOR RODS: ASTM A307 (TYPICAL U.N.O.)
3. TEK SCREWS ARE TO BE INSTALLED USING A 2500 RPM MAX. NON-IMPACTING VARIABLE SPEED DRILL WITH CLUTCH OUT.
4. REFER TO THE LATEST RIBI SOLAR MODEL GM-1 OR GM-2 INSTALLATION GUIDE FOR STRUCTURAL CONNECTION TORQUE VALUES.
5. ALL WELDING OF STEEL SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN WELD SOCIETY'S SPECIFICATIONS - AWS D1.1. ELECTRODES SHALL BE E70 SERIES UNLESS NOTED OTHERWISE.
6. GALVANIZING SPECIFICATIONS
A. STRUCTURAL SHAPES: HOT-DIPPED GALVANIZING SHALL BE PER ASTM A123.
B. PRE-GALVANIZED MATERIALS SHALL COMPLY WITH ASTM A653 - G90 MINIMUM.
C. ALL STRUCTURAL HARDWARE (NOT MODULE MOUNTING HARDWARE): HOT-DIPPED GALVANIZING SHALL BE PER ASTM F2329 UNLESS NOTED OTHERWISE.

MISCELLANEOUS FASTENERS:

- 1. ALL BOLTS SHALL BE THE TYPE AND SIZE INDICATED ON DRAWINGS.
2. ALL HARDWARE USED FOR MOUNTING PV MODULES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.
3. ALL PV MODULE MOUNTING HARDWARE SHALL BE INSTALLED AND TORQUED PER THE LATEST RIBI SOLAR MODEL GM-2 INSTALLATION GUIDE.

FOUNDATIONS/CONCRETE:

- 1. THE FOUNDATION DESIGN IS BASED ON ASSUMED MINIMUM CODE ALLOWABLE VALUES AND FIELD TESTS PERFORMED BY RIBI SOLAR ON: 03/06/20 AND GEOTECHNICAL REPORT PREPARED BY: MILONE & MACROOM. DATED: 12/12/2019 (REPORT: #6763-05)
2. CONCRETE SPECIFICATIONS: STRENGTH: 2500 PSI MINIMUM @ 28 DAYS FOR FOOTINGS OR 4000 PSI MINIMUM @ 28 DAYS FOR BALLASTS AIR CONTENT: 4-6% AGGREGATE SIZE: 3/4" MAXIMUM MINIMUM COVER: 3" UNLESS NOTED OTHERWISE
3. ROOF SPECIFICATIONS: 8000 PSI MINIMUM, NON-SHRINK
4. REINFORCING STEEL: ASTM A615 GRADE 60 BILLET STEEL
5. CUSTOMER IS RESPONSIBLE FOR VERIFYING FINAL SOIL CONDITIONS DURING CONSTRUCTION HAVE NOT BEEN PURPOSELY ALTERED IN ANY WAY TO ENSURE THE SOIL IS CONSISTENT WITH FINDINGS INCLUDED IN GEOTECHNICAL REPORT. IF APPLICABLE, AND OR FIELD TESTS PERFORMED BY RIBI SOLAR. VARIATIONS IN SOIL CONDITIONS SHALL BE REPORTED TO GEOTECHNICAL ENGINEER AND/OR ENGINEER OF RECORD RESPONSIBLE FOR FOUNDATION DESIGN PRIOR TO INSTALLATION OF ANY FOUNDATION MATERIALS.
6. CUSTOMER IS RESPONSIBLE FOR VERIFYING CORROSION COMPATIBILITY WITH FOUNDATIONS AND/OR DRIVEN POSTS.
7. INSTALLER/CONTRACTOR SHALL COORDINATE PLACEMENT OF FOUNDATIONS AND/OR ANCHOR BOLTS PER DESIGN DRAWINGS AND/OR MANUFACTURER'S SPECIFICATIONS.
8. RIBI SOLAR, INC. DESIGNS DRIVEN-PILE AND ALTERNATIVE FOUNDATIONS BASED ON SOIL PROPERTIES OUTLINED IN CERTIFIED GEOTECHNICAL REPORTS AND/OR DATA FROM FIELD TESTING. ALL DESIGNS ASSUME UNDISTURBED SOIL CONDITIONS, AND DO NOT TAKE INTO ACCOUNT TRENCHING NEAR FOUNDATIONS. FOR CASES WHERE TRENCHING FOR ELECTRICAL WORK IS AT OR NEAR A FOUNDATION, RIBI SOLAR RECOMMENDS A MINIMUM OF 3'-0" CLEAR FROM THE EDGE OF THE TRENCH TO THE EDGE OF THE FOUNDATION FOR "NORMAL GOOD SOIL CONDITIONS." IN CASES OF "POOR SOIL" CONDITIONS, RIBI SOLAR RECOMMENDS A MINIMUM CLEAR DISTANCE EQUAL TO OR GREATER THAN THE DEPTH OF THE FOUNDATION. IF IN DOUBT OF SOIL CONDITIONS, RIBI SOLAR RECOMMENDS CONSULTING A QUALIFIED GEOTECHNICAL ENGINEER TO ASSESS SOIL CONDITIONS AT THE SITE.
NOTE: TRENCHING/EXCAVATION WITHIN 3'-0" OF ANY RACK SUPPORT POST REQUIRES REPLACING THE ORIGINAL SOIL AND COMPACTION TO 90% STANDARD PROCTOR DENSITY. FOR FURTHER CLARIFICATION ON COMPACTION REQUIREMENTS, RIBI SOLAR RECOMMENDS CONSULTING A QUALIFIED GEOTECHNICAL ENGINEER.
9. REFER TO SHEET SG302 FOR REFUSAL REMEDY PROCEDURE AND ALTERNATE FOUNDATION OPTIONS.

SURVEYING REQUIREMENTS:

- 1. ALL SURVEYING WORK MUST BE COMPLETED BY OTHERS PRIOR TO RIBI SOLAR MOBILIZING ON-SITE UNLESS NOTED OTHERWISE.
2. ALL SURVEYING FOR THE RACKING MUST BE BASED OFF OF RIBI SOLAR'S LATEST DOCUMENT SET.
3. THE FIRST AND LAST RACKING POST IN EVERY ROW MUST HAVE THE CENTER POINTS SURVEYED AND MARKED. THERE MUST BE A FIVE FOOT OFFSET TO THE WEST OF THE WESTERMOST POST LOCATION AND A FIVE FOOT OFFSET TO THE EAST OF THE EASTERMOST POST LOCATION IN EVERY ROW.
4. FOR ROWS LONGER THAN 100 FEET, THE CENTERLINE LOCATION MUST BE MARKED WITHIN THE ROW AT EVERY 100 FEET MAXIMUM. THESE ADDITIONAL MARKS SHOULD NOT BE AT A POST LOCATION. DO NOT MARK EACH INDIVIDUAL POST LOCATION WITHIN A ROW AS IT WILL NOT BE ACCURATE DUE TO TOPOGRAPHY.
5. EVERY INDIVIDUAL EQUIPMENT POST LOCATION MUST HAVE THE CENTER POINT SURVEYED AND MARKED.

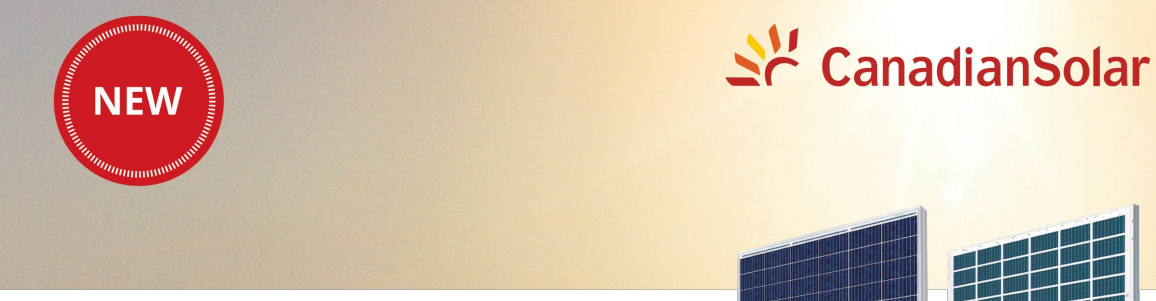
RELEASE RECORD

Table with 2 columns: MARK DATE and DESCRIPTION. Row 1: 03/16/20 FOR CONSTRUCTION. Row 2: 03/13/20 90% REVIEW. Row 3: 02/10/20 90% REVIEW. Row 4: 02/28/20 90% REVIEW.

PROJECT INFORMATION

PROJECT INFORMATION details including TITLE & ADDRESS: STONINGTON TAUGWONK, 35 TAUGWONK SPUR ROAD, STONINGTON, CT 06378, RBI SOLAR PROJECT No.: 2030067, DRAWN BY: JAB, REVIEWED BY: BDS / LKS, SHEET TITLE: GENERAL NOTES/ MODULE SPECIFICATION SHEETS, SHEET No.: SG002.

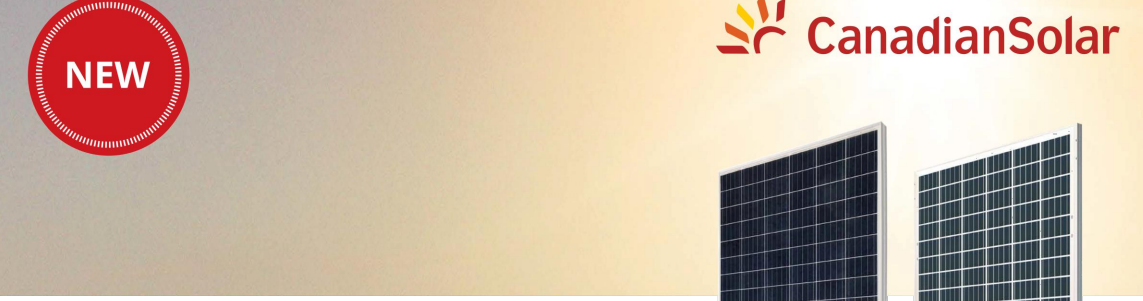
KEY POINTS: 1. RACK STRUCTURE IS PARALLEL TO SITE GRADE 2. COLUMN LENGTHS ARE EQUAL THROUGHOUT 3. T.O.P.S OF PIERS FOLLOW SITE GRADE 4. EXPOSED PIER HEIGHTS MAY VARY



BiHiKu SUPER HIGH POWER BIFACIAL POLY PERC MODULE 390 W ~ 410 W UP TO 30% MORE POWER FROM THE BACK SIDE CS3W-390|395|400|405|410PB-AG

- MORE POWER: Up to 30% more power from the back side, 24% more front side power than conventional modules, Low NMOT: 41 ± 3 °C, Better shading tolerance.
MORE RELIABLE: Lower internal current, Lower hot spot temperature, Minimizes micro-cracks and snail trails, Heavy snow load up to 5400 Pa, wind load up to 2400 Pa\*, Fire Class A and Type 3 / Type 13.

MANAGEMENT SYSTEM CERTIFICATES\*, PRODUCT CERTIFICATES\*, CANADIAN SOLAR (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance-price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 36 GW deployed around the world since 2001.



BiKu MODULE NEW GENERATION BIFACIAL MODULE FRONT POWER RANGE: 350W ~ 365W UP TO 30% MORE POWER FROM THE BACK SIDE CS3U-350|355|360|365PB-AG

- MORE POWER: Up to 30% more power from the back side, Low NMOT: 41 ± 3 °C, Better shading tolerance, 10 years product warranty on materials and workmanship\*, Fire Class A and Type 3 / Type 13.

MANAGEMENT SYSTEM CERTIFICATES\*, PRODUCT CERTIFICATES\*, CANADIAN SOLAR (USA), INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance-price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 34 GW deployed around the world since 2001.

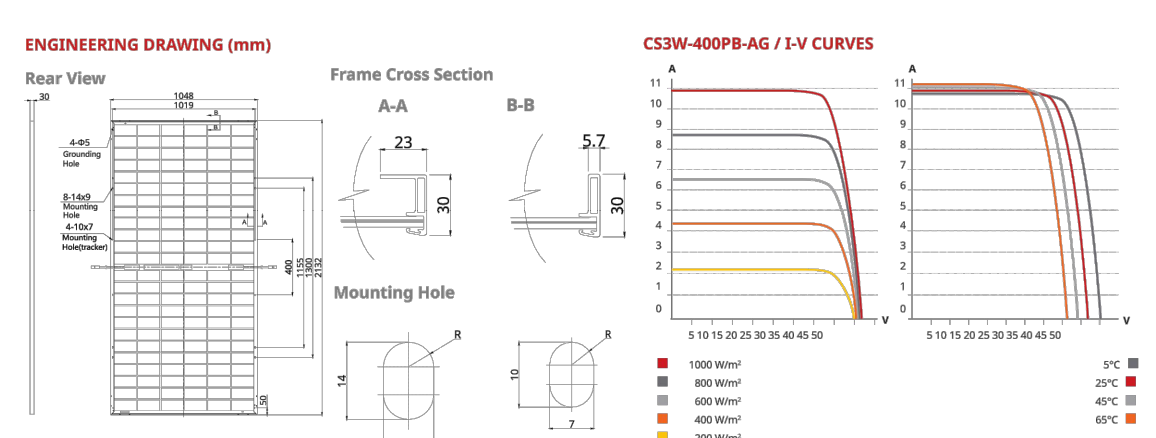


Table with 4 columns: Nominal Power, Opt. Power, Opt. Current, Opt. Voltage, Short Circuit Current, and rows for CS3W-390PB-AG, CS3W-400PB-AG, CS3W-405PB-AG, CS3W-410PB-AG.

Table with 2 columns: Specification and Data, and rows for MECHANICAL DATA, ELECTRICAL DATA, TEMPERATURE CHARACTERISTICS, PARTNER SECTION.

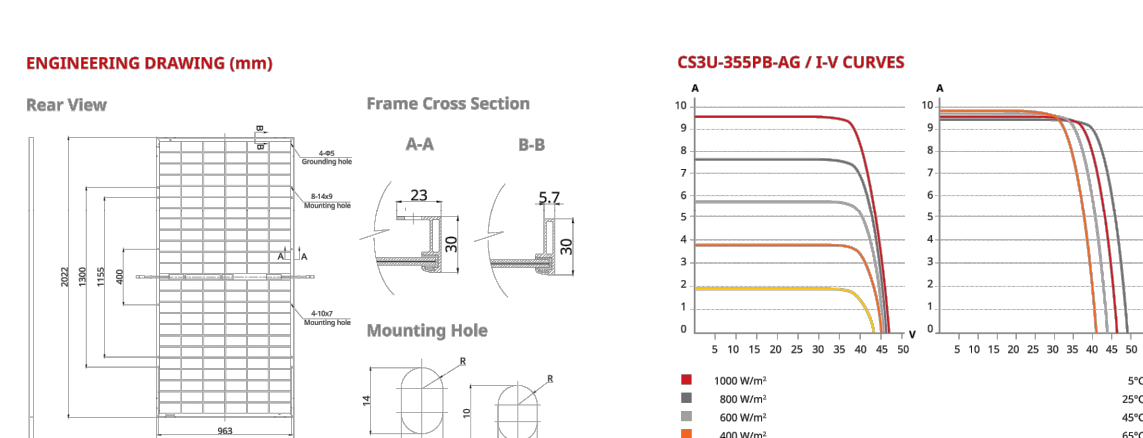


Table with 4 columns: Nominal Power, Opt. Power, Opt. Current, Opt. Voltage, Short Circuit Current, and rows for CS3U-350PB-AG, CS3U-355PB-AG, CS3U-360PB-AG.

Table with 2 columns: Specification and Data, and rows for MECHANICAL DATA, ELECTRICAL DATA, TEMPERATURE CHARACTERISTICS, PARTNER SECTION.

\* For detailed information, please refer to Installation Manual. CANADIAN SOLAR (USA), INC. 3000 Oak Road, Suite 400, Walnut Creek, CA 94597, USA | www.canadiansolar.com | sales.us@canadiansolar.com

\* For detailed information, please refer to Installation Manual. CANADIAN SOLAR (USA), INC. 3000 Oak Road, Suite 400, Walnut Creek, CA 94597, USA | www.canadiansolar.com | sales.us@canadiansolar.com

CANADIAN SOLAR (USA), INC. November 2019 | All rights reserved | PV Module Datasheet v5.584\_F26F27\_J1\_NA

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RBI SOLAR logo and contact information: 5513 VINE STREET, CINCINNATI, OH 45217, 513.242.205, FAX: 513.242.0816

PROFESSIONAL SEAL: ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY. State of Connecticut seal, No. 23548, dated 3-16-2020.

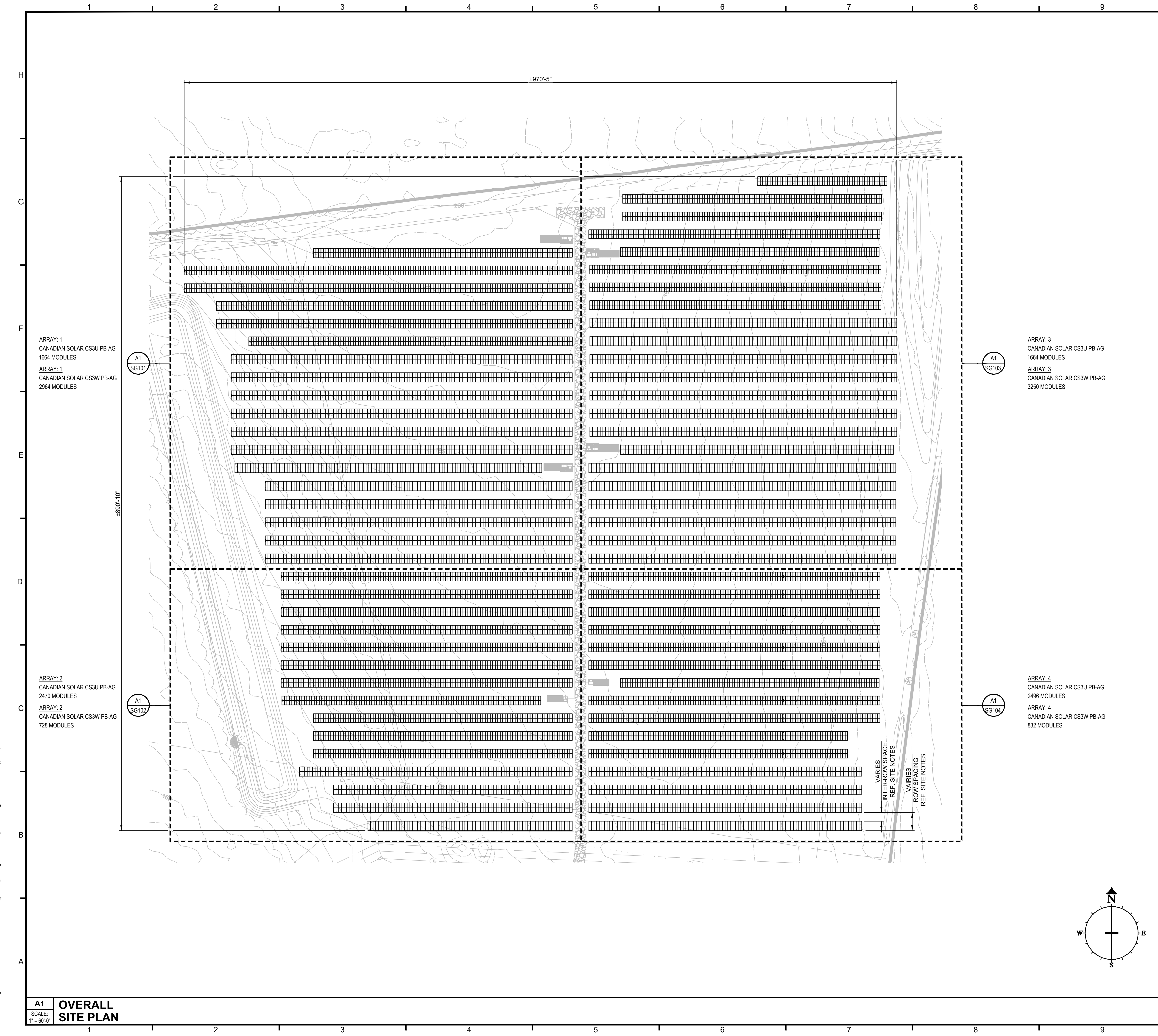
GROUND MOUNT FOR GREENSKIES CLEAN ENERGY

RELEASE RECORD table with 2 columns: MARK DATE and DESCRIPTION. Row 1: 03/16/20 FOR CONSTRUCTION. Row 2: 03/13/20 90% REVIEW. Row 3: 02/10/20 90% REVIEW. Row 4: 02/28/20 90% REVIEW.

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KEY POINTS: 1. RACK STRUCTURE IS PARALLEL TO SITE GRADE 2. COLUMN LENGTHS ARE EQUAL THROUGHOUT 3. T.O.P.S OF PIERS FOLLOW SITE GRADE 4. EXPOSED PIER HEIGHTS MAY VARY

Vertical text on the right edge: THE DRAWING AND DATA IN THIS DOCUMENT ARE THE PROPERTY OF RIBI SOLAR, INC. 5513 VINE STREET, CINCINNATI, OH 45217. ANY PARTS ACCEPTING THIS DOCUMENT ARE IN CONFORMANCE WITH THE TERMS AND CONDITIONS OF RIBI SOLAR, INC. 5513 VINE STREET, CINCINNATI, OH 45217.



A1  
SCALE:  
1" = 60'-0"

**OVERALL  
SITE PLAN**

**SITE NOTES**

1. TOPOGRAPHY PROVIDED BY GREENSKIES CLEAN ENERGY ON 02/26/2020. DIMENSIONS SHOWN FOR REFERENCE ONLY. PRESUMPTIVE OR INADEQUATE TOPOGRAPHY USED FOR THIS DESIGN MAY REQUIRE ADDITIONAL MATERIALS. ACTUAL ON-SITE CONDITIONS SHALL BE FIELD VERIFIED AND RBI SOLAR SHALL BE NOTIFIED IF ON-SITE CONDITIONS ARE DIFFERENT THAN SHOWN OR PRESUMED.

**BAY INFORMATION**

TYPE	QTY.
BAY TYPE 3EP2A	16
BAY TYPE 3P2A	53
BAY TYPE 3WP2A	18
BAY TYPE 4EP2A	51
BAY TYPE 4EP2B	71
BAY TYPE 4P2A	773
BAY TYPE 4P2B	148
BAY TYPE 4WP2A	49
BAY TYPE 4WP2B	71
BAY TYPE 5P2B	569
TOTAL # OF BAYS	1819

**BILL OF MATERIALS**

ITEM	QTY.
<b>RACKING POSTS:</b>	
POST TYPE A	1027
POST TYPE B	930
TOTAL # OF RACKING POSTS	1957
<b>PURLINS:</b>	
PURLIN MARK Z3A	252
PURLIN MARK Z3WA	72
PURLIN MARK Z4EA	204
PURLIN MARK Z4A	3092
PURLIN MARK Z4WA	196
PURLIN MARK Z4EB	284
PURLIN MARK Z4B	572
PURLIN MARK Z4WB	284
PURLIN MARK Z5B	2292
PURLIN MARK Z3EA	64
TOTAL # OF PURLINS	7312
TOTAL # OF TOP CHORD ASSEMBLIES	1957
TOTAL # OF STANDARD POST TOP ASSEMBLIES	1681
TOTAL # OF EXTENDED POST TOP ASSEMBLIES	276
45 13/16" x 2" SQ. 15 GA. GALVANIZED KNEE BRACES	1957
74 1/2" x 2" SQ. 15 GA. GALVANIZED KNEE BRACES	1957
KNEE BRACE CLIPS	7828
3/4" X 5" MAGNI BOLT WITH NUT	3914
3/8" X 1 1/4" GALV. BOLT WITH NUT	19570
1/2" X 3" GALV. BOLT WITH NUT	3914
3/8" X 3/4" GALV. BOLT WITH NUT	31312
3/8" X 5" GALV. BOLT WITH NUT	1957
3/8" GALV. WASHER	7828
#12 X 1 1/4" HEX HEAD TEK SCREW	4466
MODULE S.S. HARDWARE STACK (BOLT, 2 WASHER, FLANGE NUT)	64272

**RBI SOLAR**  
Total Solar Service: Design \* Fabrication  
Installation \* Parts \* Repair Service  
5513 VINE STREET  
CINCINNATI, OH 45217  
513.242.2051  
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

**GROUND MOUNT FOR GREENSKIES CLEAN ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
2	03/10/20	90% REVIEW
1	02/28/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**

35 TAUGWONK SPUR ROAD  
STONINGTON, CT 06378

RBI SOLAR PROJECT No.:  
2030067

DRAWN BY: JAB      REVIEWED BY: BDS / LKS

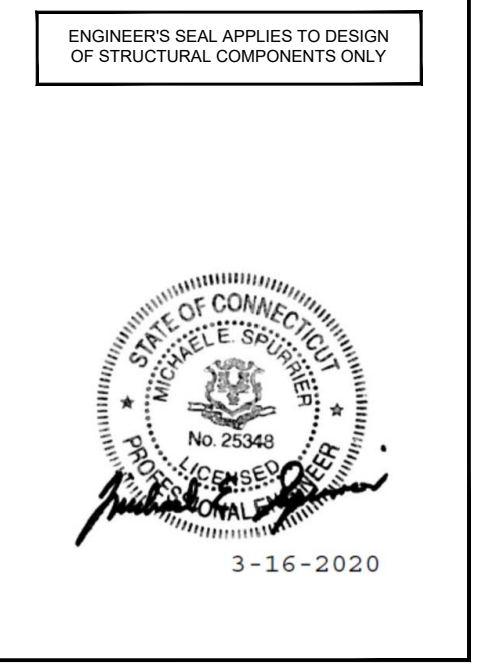
SHEET TITLE:  
**SITE PLAN & BILL OF MATERIALS**

SHEET No.:  
**SG003**

S:\RBI Solar\Design\2020 Jobs\2030067 - Greenskies Renewable Energy - Stonington Taugwonk, CT\Drawings\2030067.dwg, 3/16/2020, 1:38:47 PM, jalknap

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PROFESSIONAL SEAL



**GROUND MOUNT FOR GREENSKIES CLEAN ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
1	03/10/20	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378  
 RBI SOLAR PROJECT No.:  
 2030067  
 DRAWN BY: JAB  
 REVIEWED BY: BDS / LKS  
 SHEET TITLE:  
 ARRAY: 1  
 COMPONENT LAYOUT  
 SHEET No.:  
**SG101**

**LEGEND**

	SYMBOL REPRESENTS 6" WIDE ROW BREAK PER DETAIL G9/SG301
	SYMBOL REPRESENTS 6" WIDE ROW BREAK PER DETAIL G9/SG302

**POST SCHEDULE**

SYMBOL	MARK	DESCRIPTION	LENGTH	PIECES	DETAIL
X' # OR X' # PER PLAN	A	W6x9 POST	13'-4"	390	A6/SG301
	B	W6x9 POST	13'-4"	183	A6/SG302

POST SETTING NOTES:  
 1. ALL POST DIMENSIONS SHOWN ARE CENTERLINE TO CENTERLINE OF POST WEB.  
 2. REFERENCE DETAIL A6/SG301 & A6/SG302 FOR ADDITIONAL INFORMATION ON REQUIRED POST EMBED DEPTHS.  
 3. POST LENGTH INCLUDES ADDITIONAL MATERIAL TO ALLOW FOR TOPOGRAPHICAL VARIANCE.

**"A" CS3W - BAY SCHEDULE**

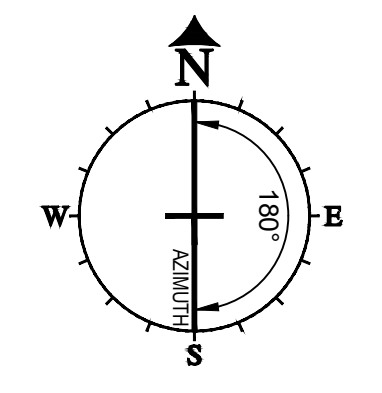
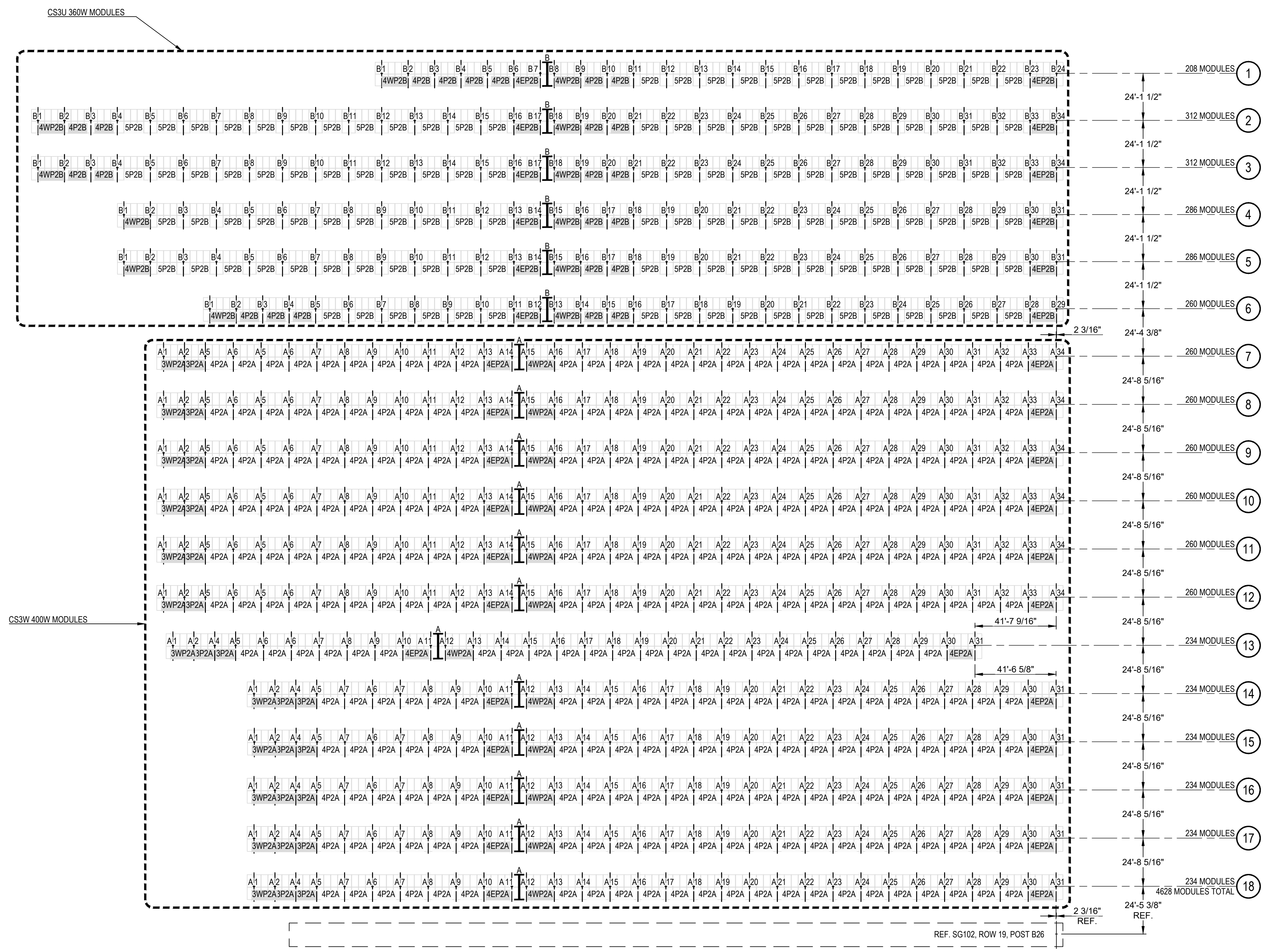
BAYS			PURLINS			DETAIL
TYPE	QTY.	POST-POST	DESCRIPTION	MARK	#/BAY	
3P2A	18	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH AND 25.0° TILT	Z3A	4	72 C3/SG301
3WP2A	12	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z3WA	4	48 E3/SG301
4EP2A	24	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EA	4	96 G3/SG301
4P2A	300	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4A	4	1200 A1/SG301
4WP2A	12	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WA	4	48 C1/SG301

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 136 7/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 45 13/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 74 1/2" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.

**"B" CS3U - BAY SCHEDULE**

BAYS			PURLINS			DETAIL
TYPE	QTY.	POST-POST	DESCRIPTION	MARK	#/BAY	
4EP2B	12	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EB	4	48 A3/SG302
4P2B	23	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4B	4	92 C3/SG302
4WP2B	12	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WB	4	48 E3/SG302
5P2B	124	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 5 WIDE x 2 HIGH AND 25.0° TILT	Z5B	4	496 G3/SG302

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 132 1/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 44 5/8" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 72 11/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.



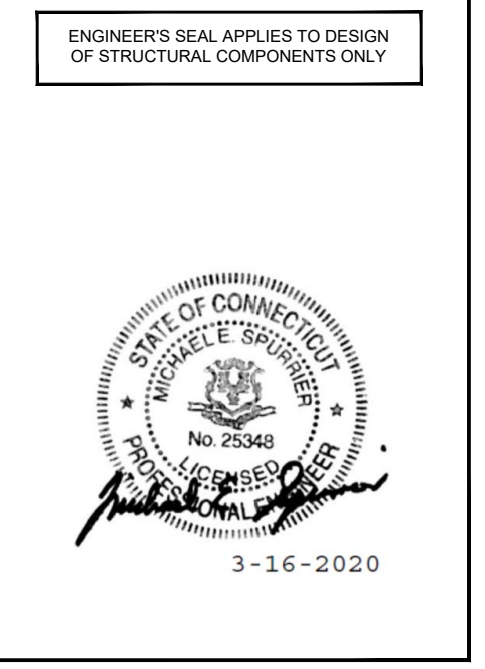
A1  
 SCALE:  
 1/32" = 1'-0"

**ARRAY: 1  
 COMPONENT LAYOUT**

S:\RBI Solar Design\2020 Jobs\2030067 - GreenSkies Renewables Energy - Stonington Taugwonk\_CTD\Drawings\2030067\_Arr\_3-16-2020\_138-51\_Plan\_Rackup

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PROFESSIONAL SEAL



**GROUND MOUNT FOR GREENSKIES CLEAN ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
1	03/10/20	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378  
 RBI SOLAR PROJECT No.:  
 2030067  
 DRAWN BY: JAB REVIEWED BY: BDS / LKS  
 SHEET TITLE:  
 ARRAY: 2  
 COMPONENT LAYOUT  
**SG102**

**LEGEND**

	SYMBOL REPRESENTS 6" WIDE ROW BREAK PER DETAIL G9/SG301
	SYMBOL REPRESENTS 8" WIDE ROW BREAK PER DETAIL G9/SG302

**POST SCHEDULE**

SYMBOL	MARK	DESCRIPTION	LENGTH	PIECES	DETAIL
X' # OR PER PLAN	A	W6x9 POST	13'-4"	97	A6/SG301
	B	W6x9 POST	13'-4"	278	A6/SG302

POST SETTING NOTES:  
 1. ALL POST DIMENSIONS SHOWN ARE CENTERLINE TO CENTERLINE OF POST WEB.  
 2. REFERENCE DETAIL A6/SG301 & A6/SG302 FOR ADDITIONAL INFORMATION ON REQUIRED POST EMBED DEPTHS.  
 3. POST LENGTH INCLUDES ADDITIONAL MATERIAL TO ALLOW FOR TOPOGRAPHICAL VARIANCE.

**"A" CS3W - BAY SCHEDULE**

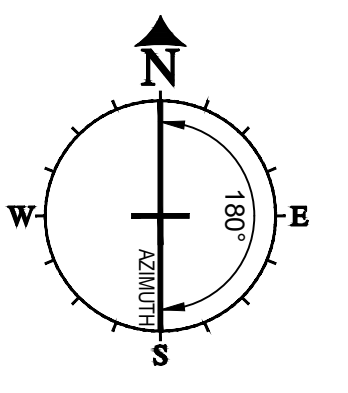
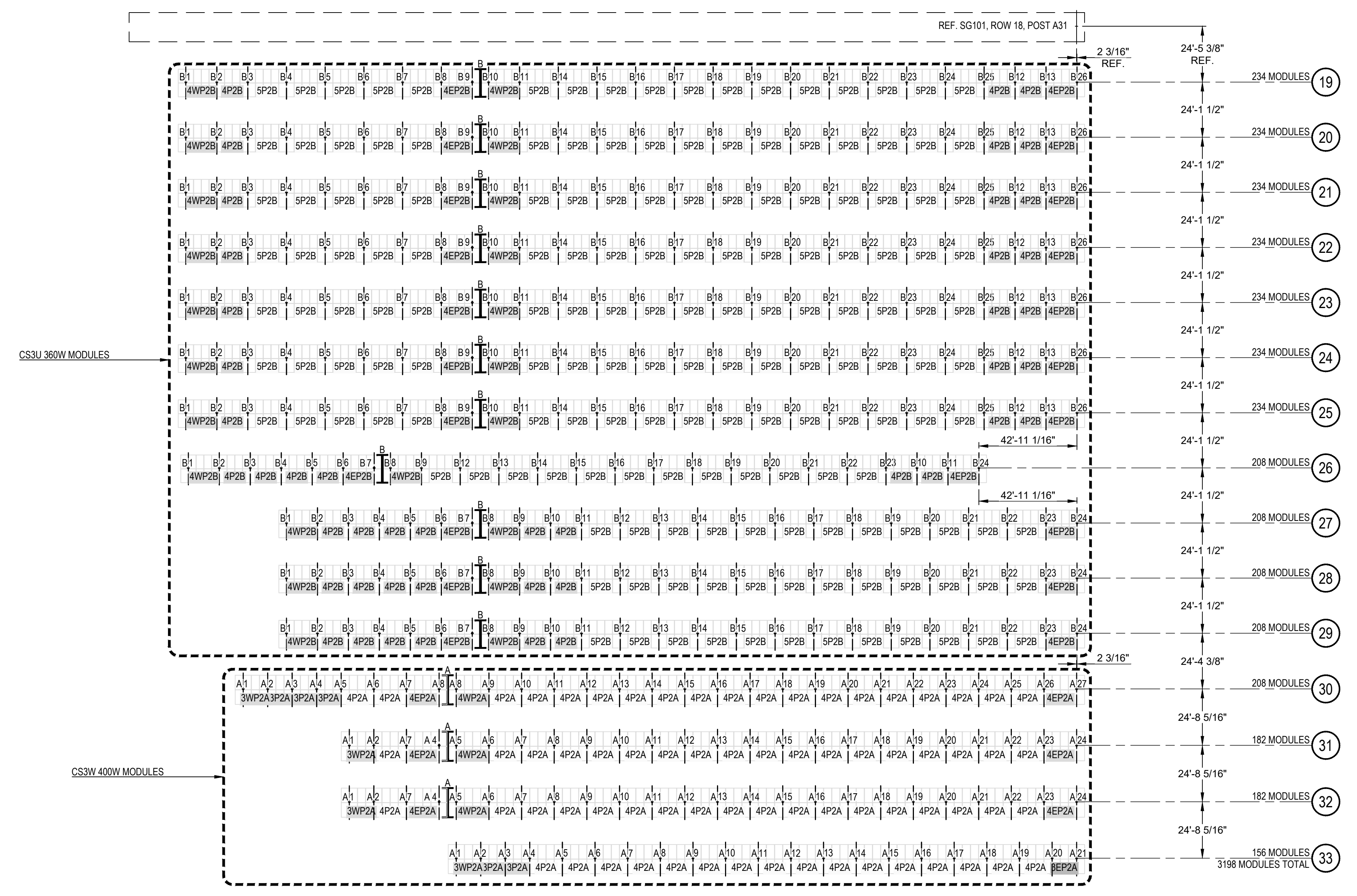
TYPE	QTY.	POST-POST	DESCRIPTION	PURLINS			DETAIL
				MARK	#/BAY	PCS.	
3EP2A	1	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z3EA	4	4	A3/SG301
3P2A	5	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH AND 25.0° TILT	Z3A	4	20	C3/SG301
3WP2A	4	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z3WA	4	16	E3/SG301
4EP2A	6	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EA	4	24	G3/SG301
4P2A	71	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4A	4	284	A3/SG301
4WP2A	3	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WA	4	12	C3/SG301

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 136 7/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 45 13/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 74 1/2" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.

**"B" CS3U - BAY SCHEDULE**

TYPE	QTY.	POST-POST	DESCRIPTION	PURLINS			DETAIL
				MARK	#/BAY	PCS.	
4EP2B	22	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EB	4	88	A3/SG302
4P2B	45	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4B	4	180	C3/SG302
4WP2B	22	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WB	4	88	E3/SG302
5P2B	167	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 5 WIDE x 2 HIGH AND 25.0° TILT	Z5B	4	668	G3/SG302

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 132 1/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 44 5/8" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 72 11/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.



S:\RBI Solar Design\2020 Jobs\2030067 - GreenSkies Renewable Energy - Stonington Taugwonk\_CTD Drawings\2030067.dwg, 3/16/2020, 1:38:56 PM, jalknap

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY



**GROUND MOUNT FOR GREENSKIES CLEAN ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
1	03/10/20	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378  
 RBI SOLAR PROJECT No.:  
 2030067  
 DRAWN BY: JAB REVIEWED BY: BDS / LKS  
 SHEET TITLE:  
 ARRAY: 3 COMPONENT LAYOUT  
 SHEET No.:  
**SG103**

**LEGEND**

	SYMBOL REPRESENTS 6" WIDE ROW BREAK PER DETAIL G9/SG301
	SYMBOL REPRESENTS 6" WIDE ROW BREAK PER DETAIL G9/SG302

**POST SCHEDULE**

SYMBOL	MARK	DESCRIPTION	LENGTH	PIECES	DETAIL
"X" # "X" # OR PER PLAN	A	W6x9 POST	13'-4"	430	A6/SG301
	B	W6x9 POST	13'-4"	188	A6/SG302

POST SETTING NOTES:  
 1. ALL POST DIMENSIONS SHOWN ARE CENTERLINE TO CENTERLINE OF POST WEB.  
 2. REFERENCE DETAIL A6/SG301 & A6/SG302 FOR ADDITIONAL INFORMATION ON REQUIRED POST EMBED DEPTHS.  
 3. POST LENGTH INCLUDES ADDITIONAL MATERIAL TO ALLOW FOR TOPOGRAPHICAL VARIANCE.

**"A" CS3W - BAY SCHEDULE**

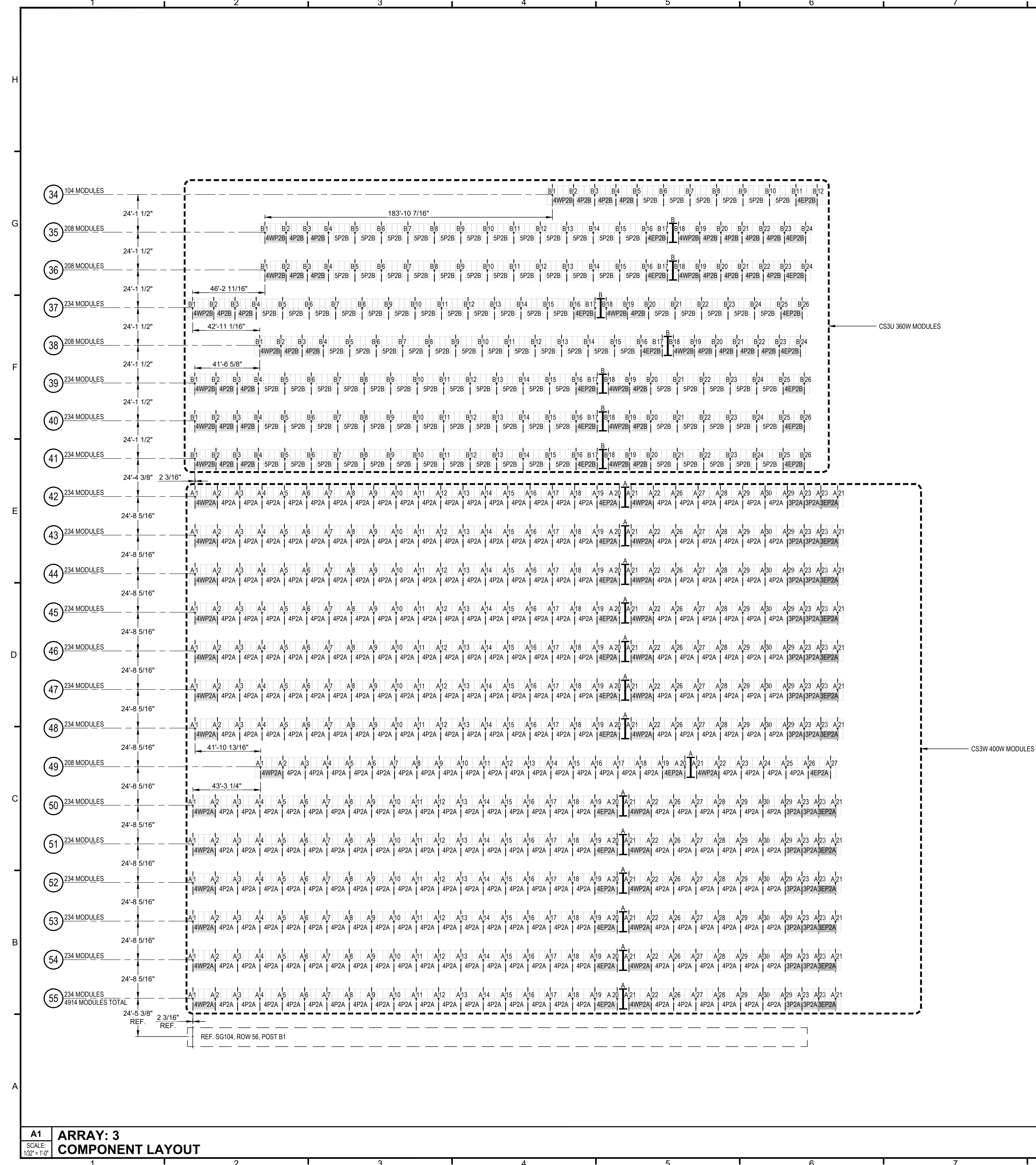
TYPE	QTY.	POST-POST	BAYS			PURLINS			DETAIL
			MARK	#/BAY	PCS.	MARK	#/BAY	PCS.	
3EP2A	13	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z3EA	4	52	A3/SG301		
3P2A	26	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH AND 25.0° TILT	Z3A	4	144	C3/SG301		
4EP2A	15	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EA	4	60	G3/SG301		
4P2A	320	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4A	4	1280	A3/SG301		
4WP2A	28	SEE BAY PLAN	CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WA	4	112	C3/SG301		

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 136 7/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 45 13/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 74 1/2" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.

**"B" CS3U - BAY SCHEDULE**

TYPE	QTY.	POST-POST	BAYS			PURLINS			DETAIL
			MARK	#/BAY	PCS.	MARK	#/BAY	PCS.	
4EP2B	15	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EB	4	60	A3/SG301		
4P2B	33	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4B	4	132	C3/SG301		
4WP2B	15	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WB	4	60	E3/SG301		
5P2B	110	SEE BAY PLAN	CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 5 WIDE x 2 HIGH AND 25.0° TILT	Z5B	4	440	G3/SG301		

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 132 1/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 44 5/8" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 72 11/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.



A1  
 SCALE: 1/32" = 1'-0"  
**ARRAY: 3 COMPONENT LAYOUT**

S:\RBI Solar\Design\2020\_Job\2030067 - GreenSkies Renewable Energy - Stonington Taugwonk, CT\Drawings\2030067.dwg, 3/16/2020, 1:38:59 PM, jhalkap

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PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY



**GROUND MOUNT FOR GREENSKIES CLEAN ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
1	03/10/20	90% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378  
 RBI SOLAR PROJECT No.: 2030067  
 DRAWN BY: JAB REVIEWED BY: BDS / LKS  
 SHEET TITLE: ARRAY: 4 COMPONENT LAYOUT  
 SHEET No.: **SG104**

**LEGEND**

	SYMBOL REPRESENTS 6' WIDE ROW BREAK PER DETAIL G9/SG301
	SYMBOL REPRESENTS 6' WIDE ROW BREAK PER DETAIL G9/SG302

**POST SCHEDULE**

SYMBOL	MARK	DESCRIPTION	LENGTH	PIECES	DETAIL
X' # OR PER PLAN	A	W6x9 POST	13'-4"	110	A6/SG301
	B	W6x9 POST	13'-4"	281	A6/SG302

POST SETTING NOTES:  
 1. ALL POST DIMENSIONS SHOWN ARE CENTERLINE TO CENTERLINE OF POST WEB.  
 2. REFERENCE DETAIL A6/SG301 & A6/SG302 FOR ADDITIONAL INFORMATION ON REQUIRED POST EMBED DEPTHS.  
 3. POST LENGTH INCLUDES ADDITIONAL MATERIAL TO ALLOW FOR TOPOGRAPHICAL VARIANCE.

**"A" CS3W - BAY SCHEDULE**

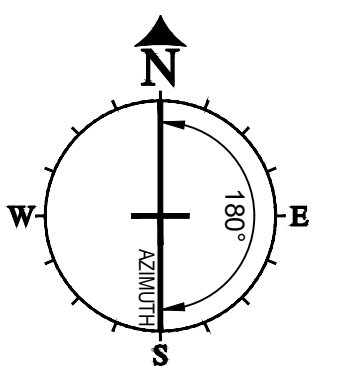
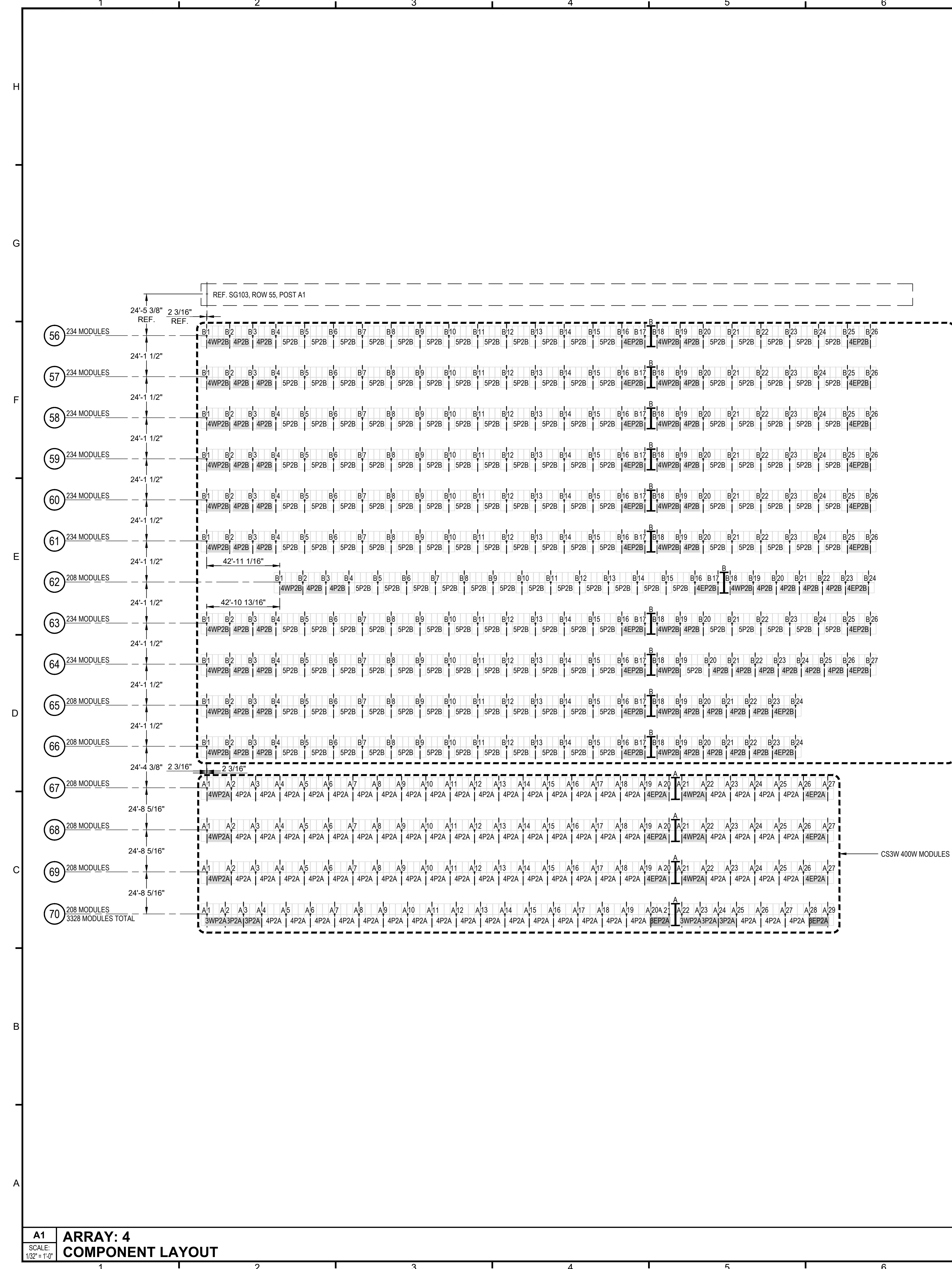
BAYS			PURLINS			DETAIL
TYPE	QTY.	POST-POST DESCRIPTION	MARK	#/BAY	PCS.	
3EP2A	2	SEE BAY PLAN CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z3EA	4	8	A3/SG301
3P2A	4	SEE BAY PLAN CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH AND 25.0° TILT	Z3A	4	16	C3/SG301
3WP2A	2	SEE BAY PLAN CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 3 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z3WA	4	8	E3/SG301
4EP2A	6	SEE BAY PLAN CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EA	4	24	G3/SG301
4P2A	82	SEE BAY PLAN CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4A	4	328	A1/SG301
4WP2A	6	SEE BAY PLAN CANADIAN SOLAR CS3W PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WA	4	24	C1/SG301

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 136 7/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 45 11/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 74 1/2" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.

**"B" CS3U - BAY SCHEDULE**

BAYS			PURLINS			DETAIL
TYPE	QTY.	POST-POST DESCRIPTION	MARK	#/BAY	PCS.	
4EP2B	22	SEE BAY PLAN CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER EAST SIDE AND 25.0° TILT	Z4EB	4	88	A3/SG302
4P2B	47	SEE BAY PLAN CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH AND 25.0° TILT	Z4B	4	168	C3/SG302
4WP2B	22	SEE BAY PLAN CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 4 WIDE x 2 HIGH WITH 1 CANTILEVER WEST SIDE AND 25.0° TILT	Z4WB	4	88	E3/SG302
5P2B	168	SEE BAY PLAN CANADIAN SOLAR CS3U PB-AG PORTRAIT MODULES 5 WIDE x 2 HIGH AND 25.0° TILT	Z5B	4	688	G3/SG302

NOTES THIS BAY:  
 1. PURLINS ARE 2 1/2" x 7" x 2 1/2" ZEE 16 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 2. TOP CHORDS ARE 132 1/16" x 4" x 4 3/4" CEE 14 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 3. LOWER KNEE BRACES ARE 44 5/8" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 4. UPPER KNEE BRACES ARE 72 11/16" x 2" SQ. 15 GA. GALVANIZED UNLESS NOTED OTHERWISE.  
 5. INSTALL EXTENDED POST TOP ASSEMBLY AT EACH ROW END UNDER CANTILEVER BAY TYPES.

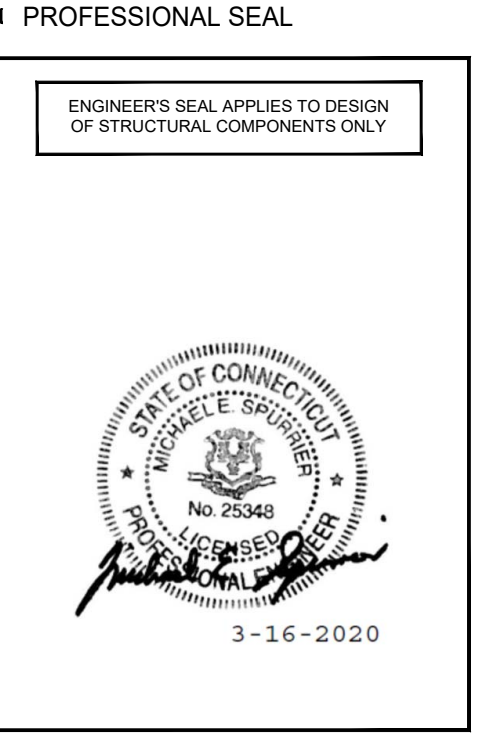


A1  
 SCALE: 1/32" = 1'-0"  
**ARRAY: 4 COMPONENT LAYOUT**

S:\RBI Solar\Design\2020\_Job\2030067 - GreenSkies Renewable Energy - Stonington Taugwonk, CT\Drawings\2030067 Array\_3/16/2020\_146:03 PM\_RJK\rip

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**GROUND MOUNT FOR  
 GREENSKIES CLEAN  
 ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
2	03/10/20	90% REVIEW
1	02/28/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON  
 TAUGWONK**

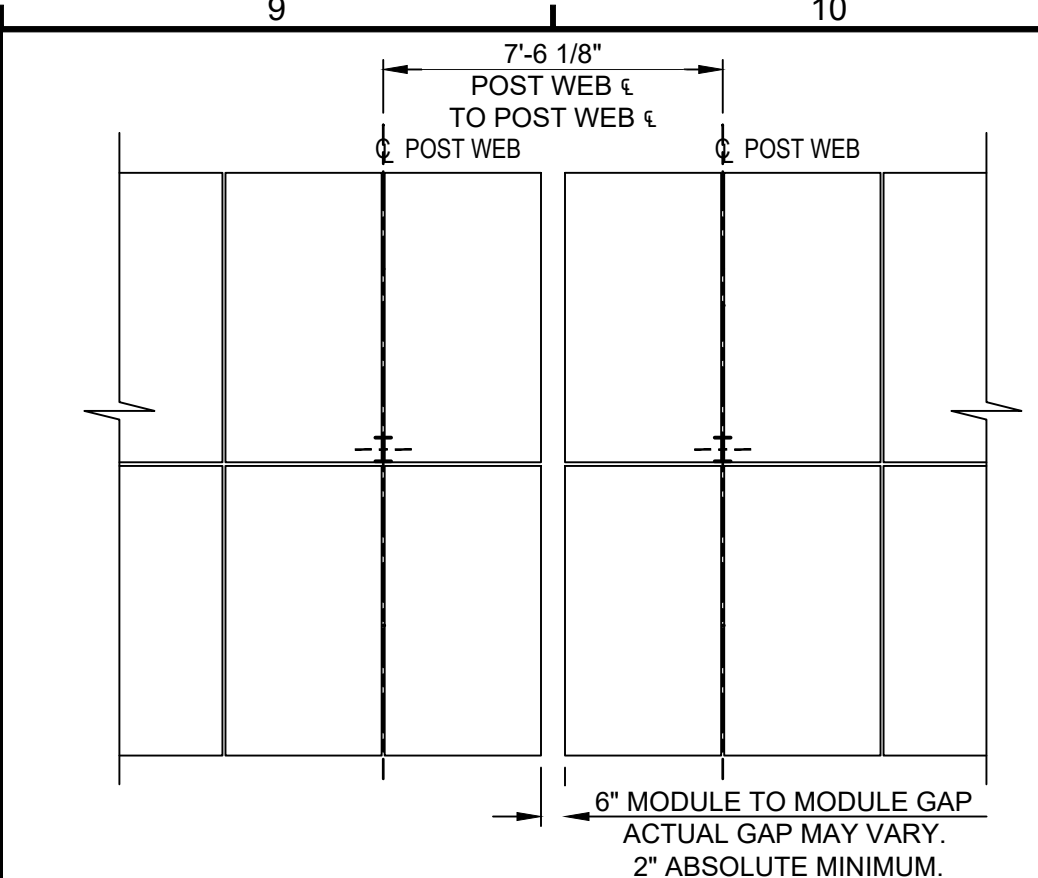
35 TAUGWONK SPUR  
 ROAD  
 STONINGTON, CT 06378

RBI SOLAR PROJECT No.:  
 2030067

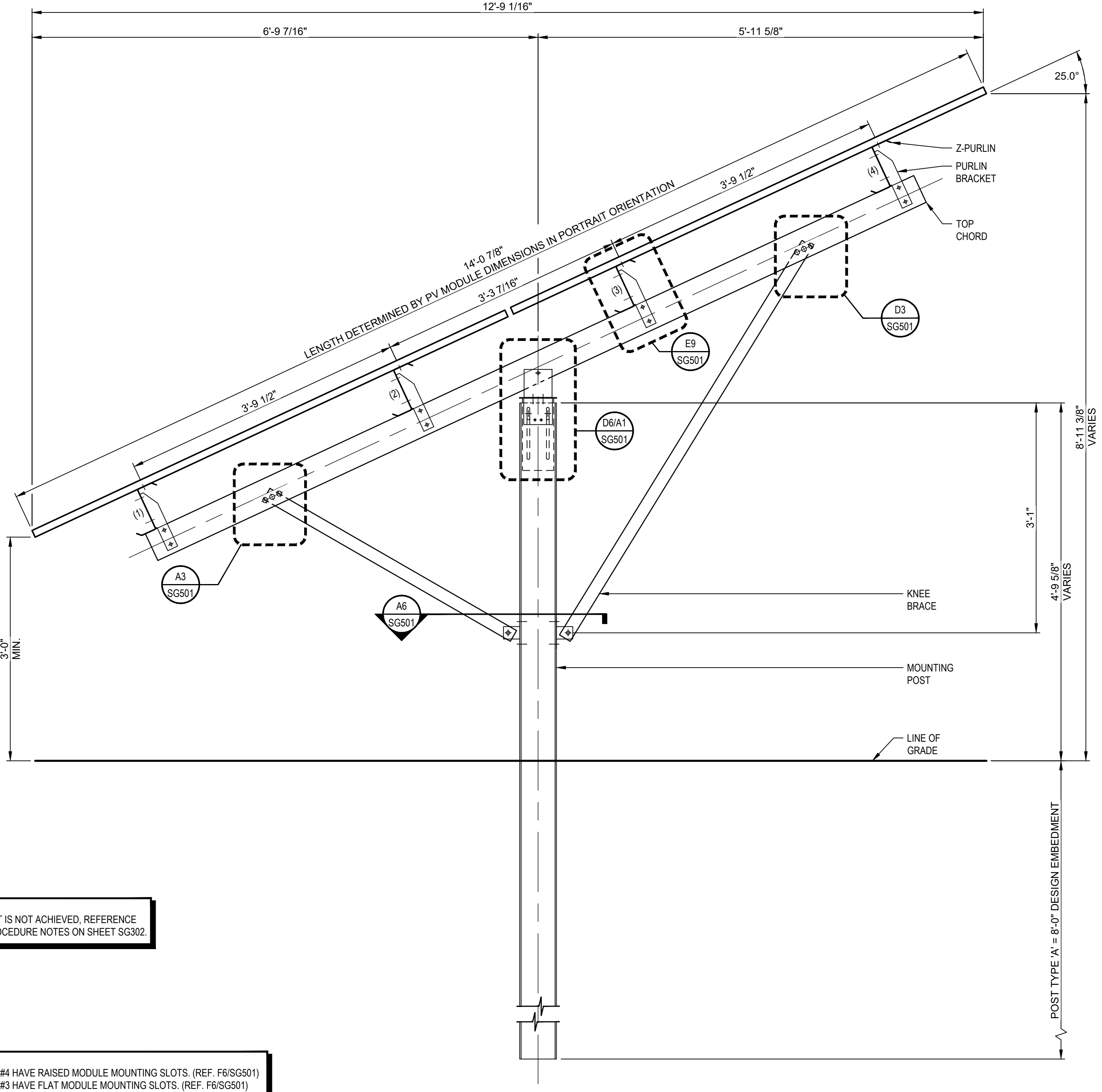
DRAWN BY: JAB      REVIEWED BY: BDS / LKS

SHEET TITLE:  
**"A" CS3W PB-AG  
 RACK SECTION  
 & BAY PLAN VIEWS**

SHEET No.:  
**SG301**



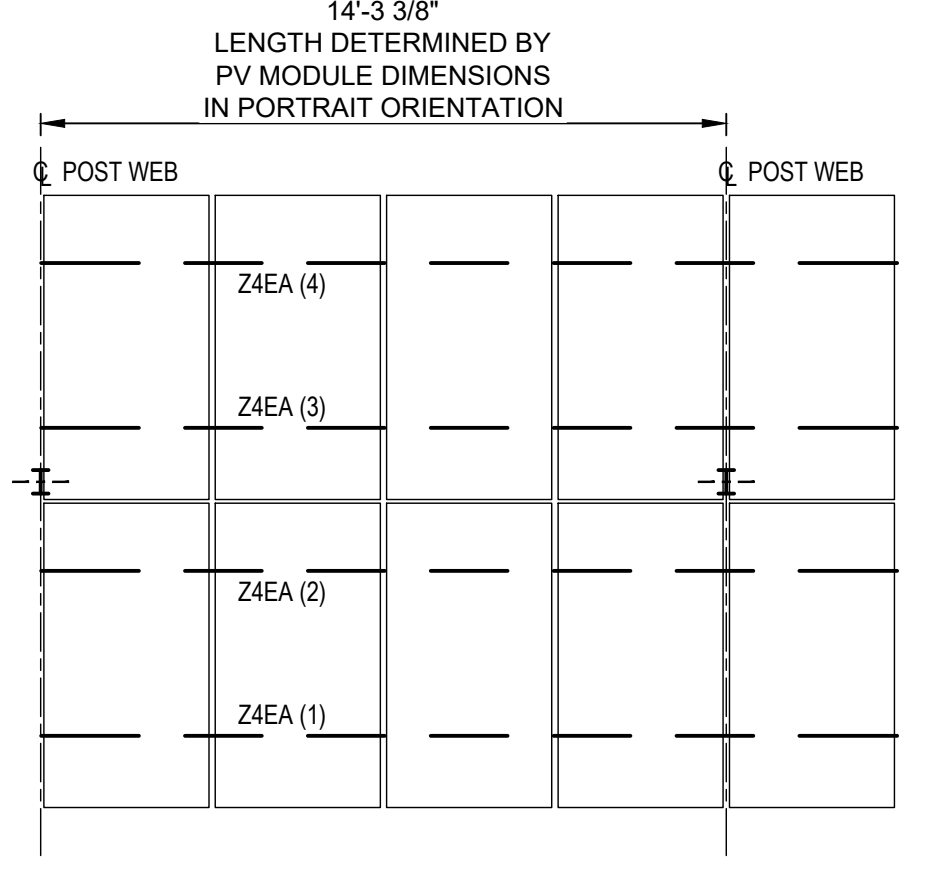
**G9 TYPICAL ROW BREAK DETAIL**  
 SCALE: NONE



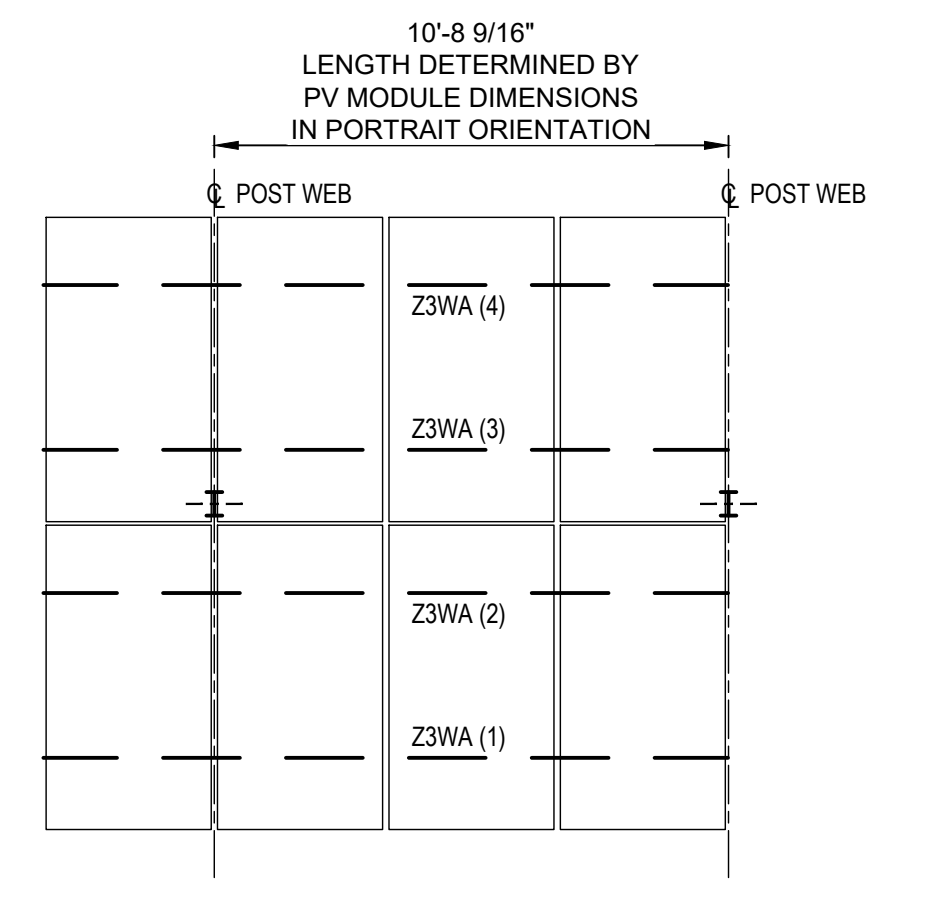
NOTE:  
 IF DESIGN EMBEDMENT IS NOT ACHIEVED, REFERENCE  
 REFUSAL/REMEDY PROCEDURE NOTES ON SHEET SG302

NOTE:  
 1. Z-PURLINS #1 & #4 HAVE RAISED MODULE MOUNTING SLOTS. (REF. F6/SG501)  
 2. Z-PURLINS #2 & #3 HAVE FLAT MODULE MOUNTING SLOTS. (REF. F6/SG501)

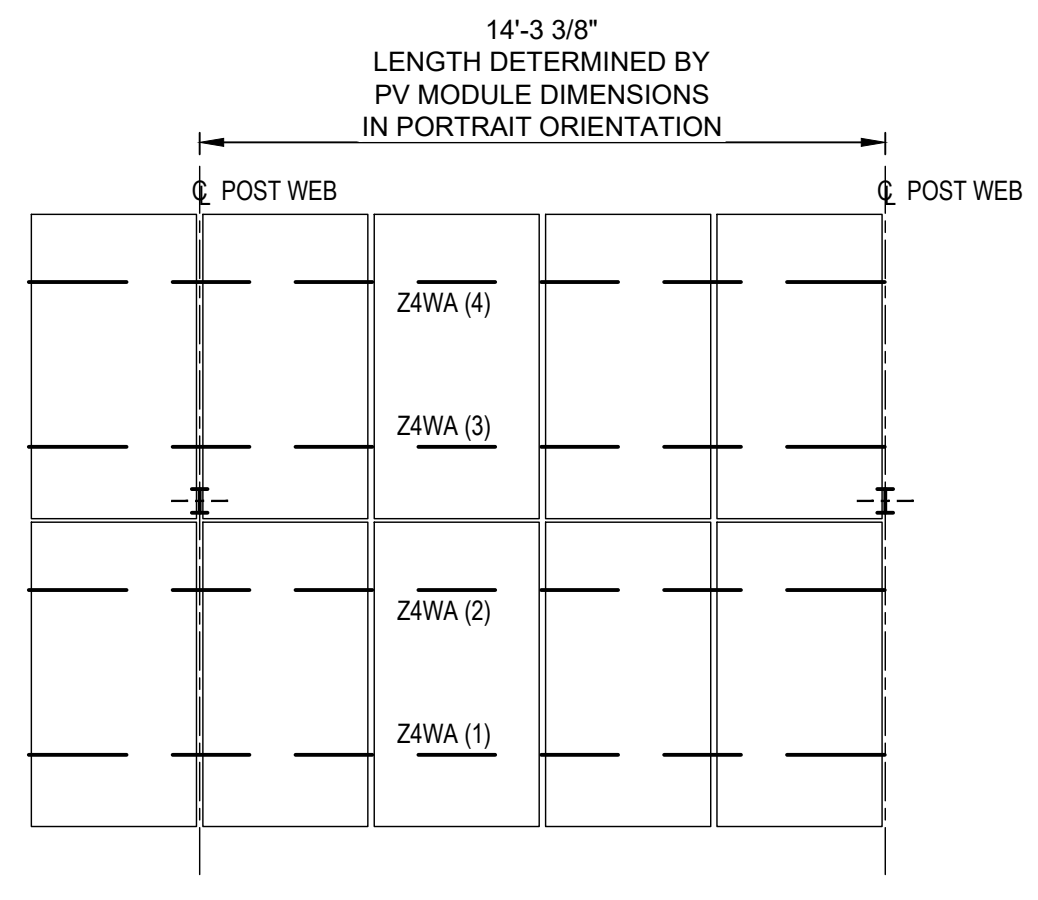
**A6 "A" CS3W PB-AG RACK SECTION**  
 SCALE: 1" = 1'-0"



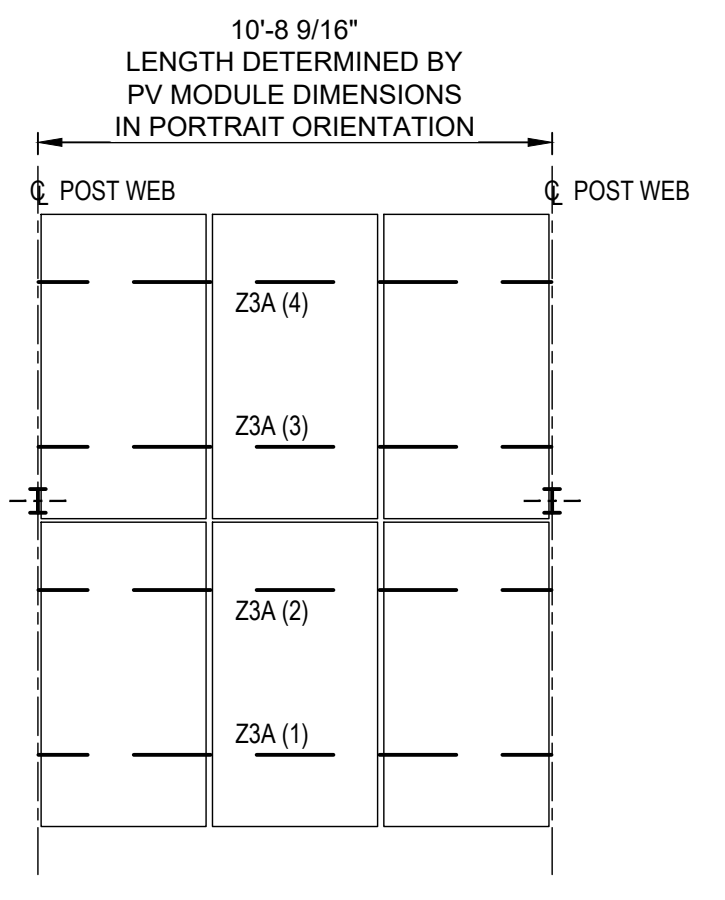
**G3 4EP2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



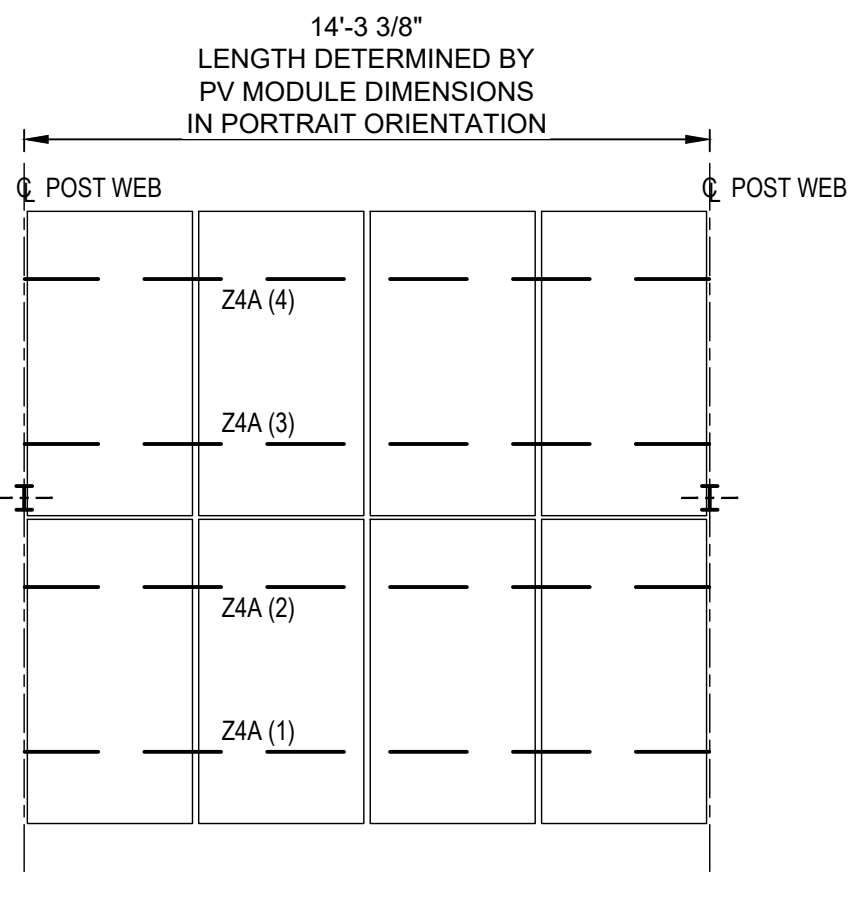
**E3 3WP2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



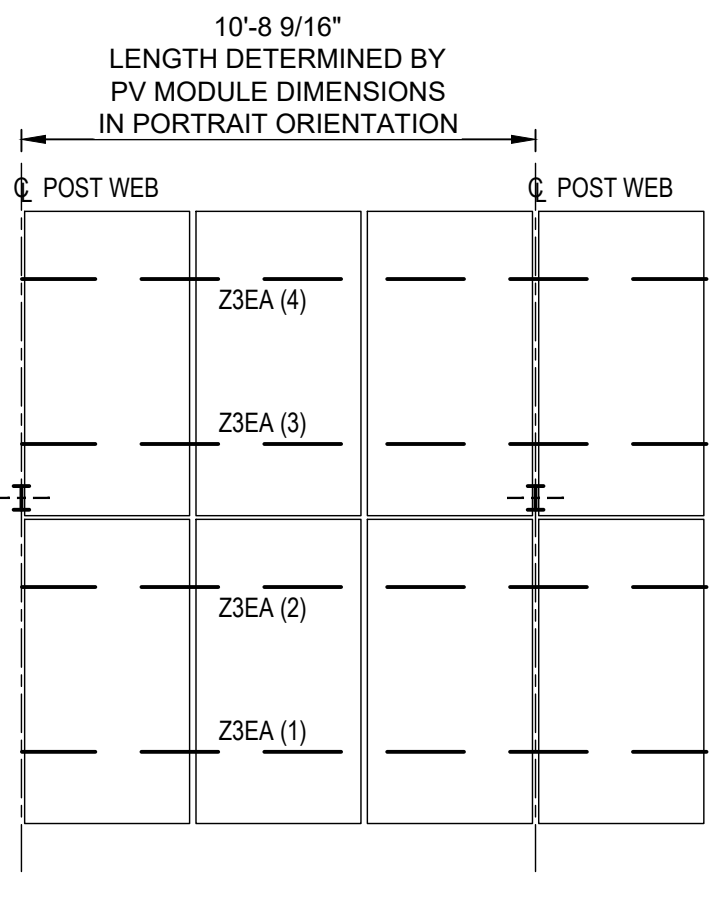
**C1 4WP2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



**C3 3P2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



**A1 4P2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



**A3 3EP2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"

NOT USED

**G1 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"

NOT USED

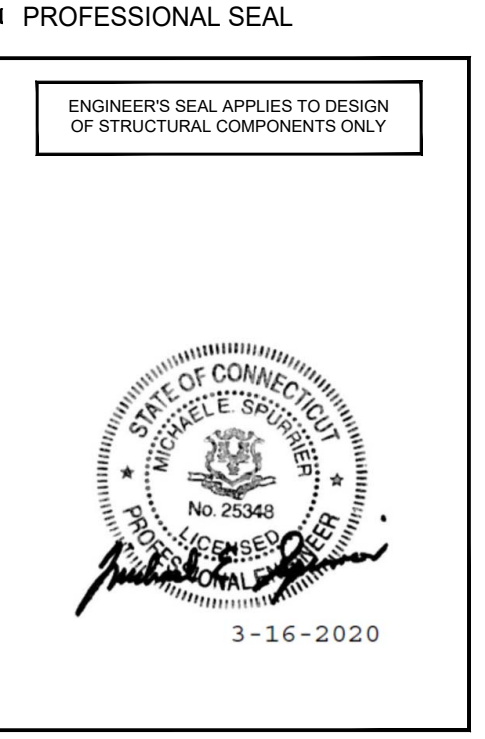
**E1 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"

NOT USED

**C1 4WP2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"

NOT USED

**A1 4P2A BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



**GROUND MOUNT FOR  
 GREENSKIES CLEAN  
 ENERGY**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
2	03/10/20	90% REVIEW
1	02/28/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON  
 TAUGWONK**

35 TAUGWONK SPUR  
 ROAD  
 STONINGTON, CT 06378

RBI SOLAR PROJECT No.:  
 2030067

DRAWN BY: JAB      REVIEWED BY: BDS / LKS

SHEET TITLE:  
**"B" CS3U PB-AG  
 RACK SECTION  
 & BAY PLAN VIEWS**

SHEET No.:  
**SG302**

NOT USED

NOT USED

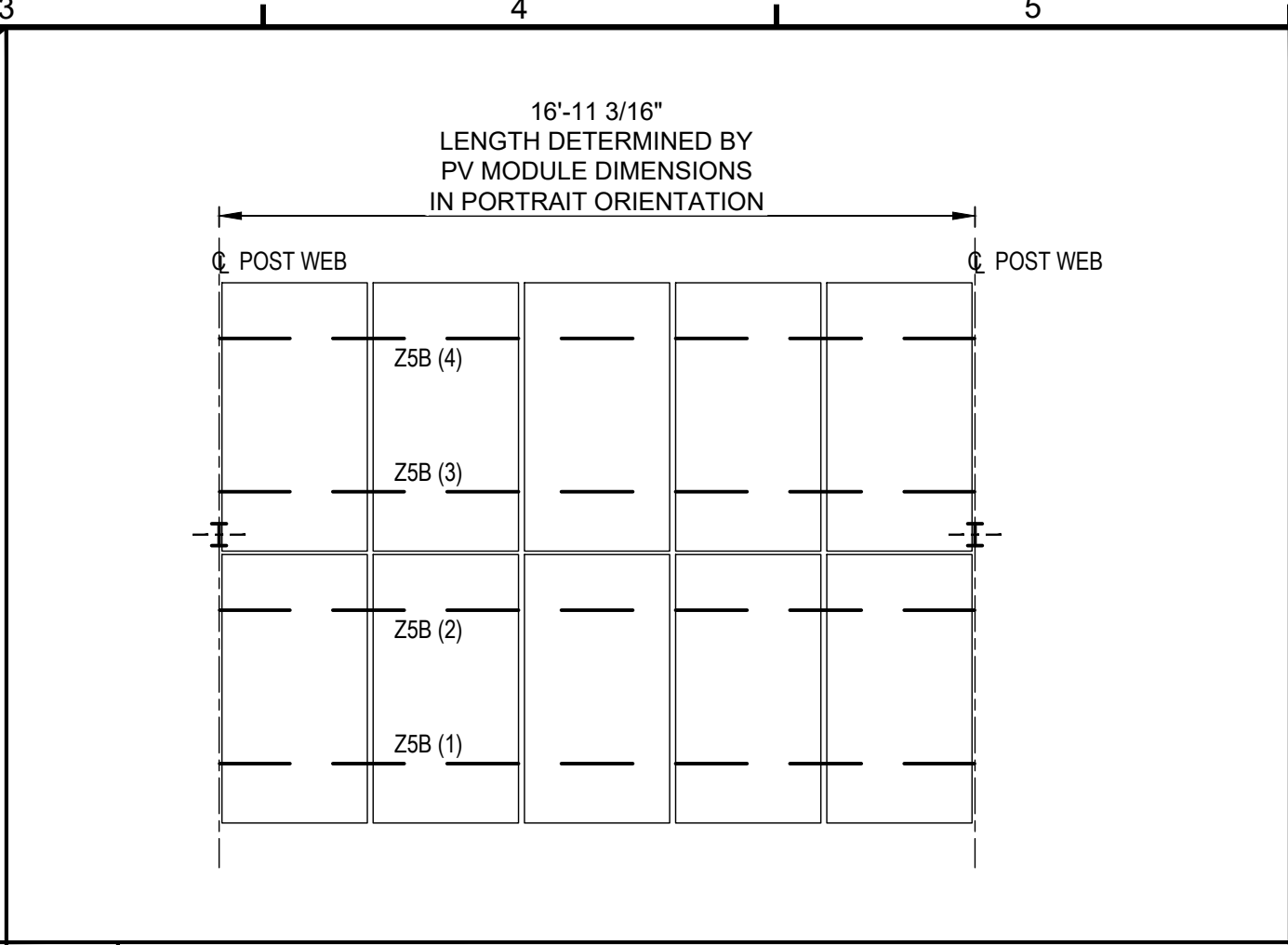
NOT USED

NOT USED

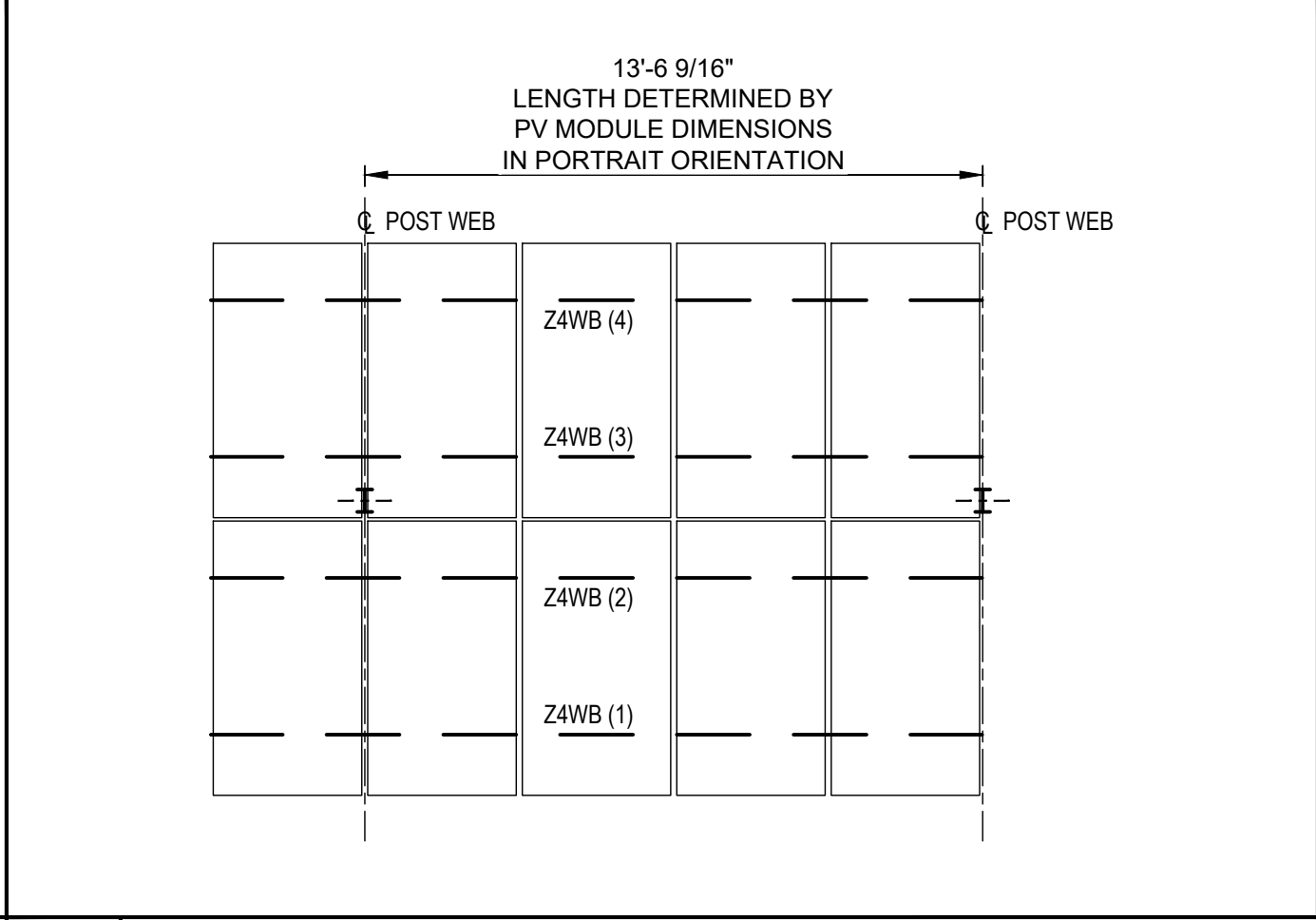
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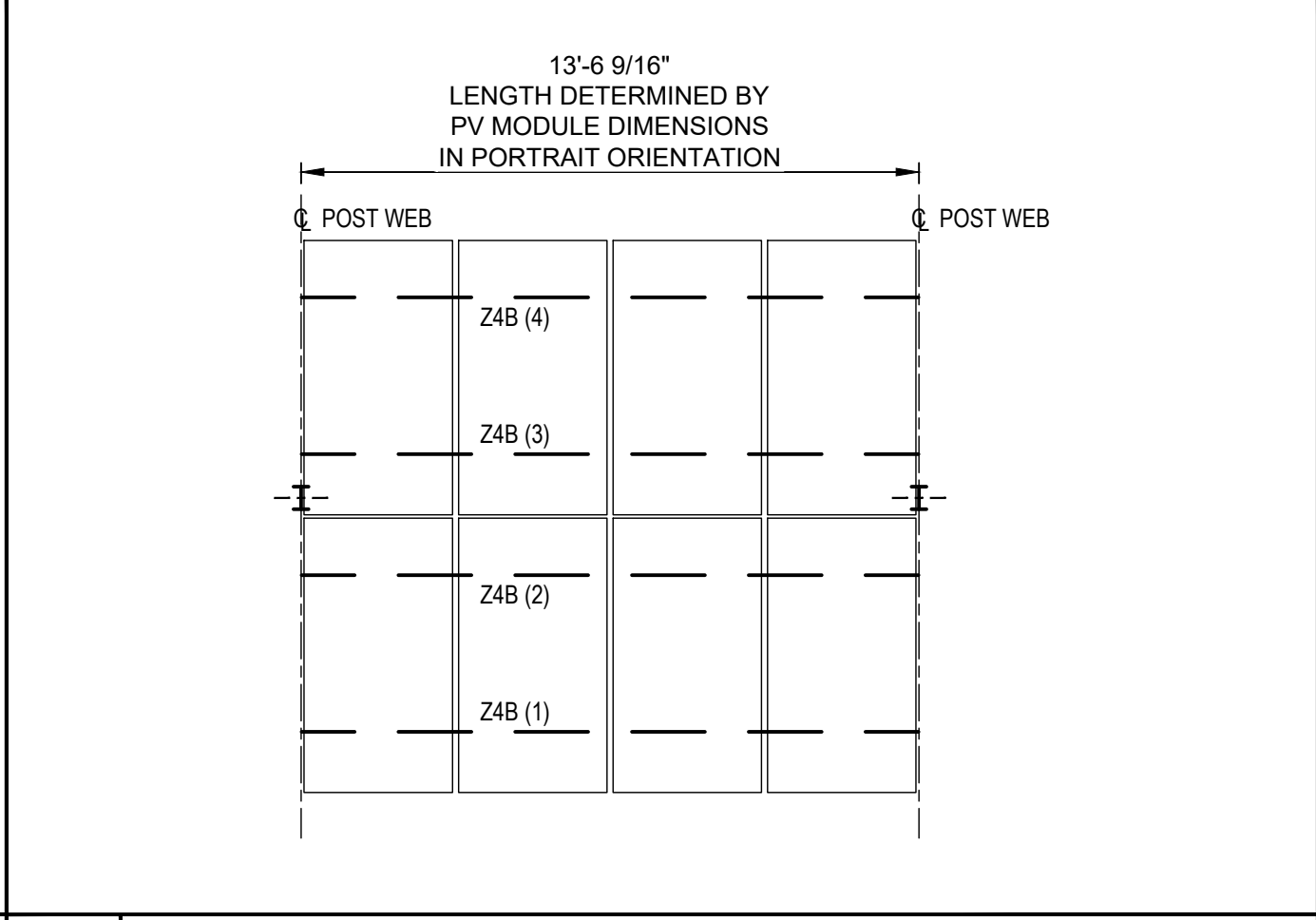
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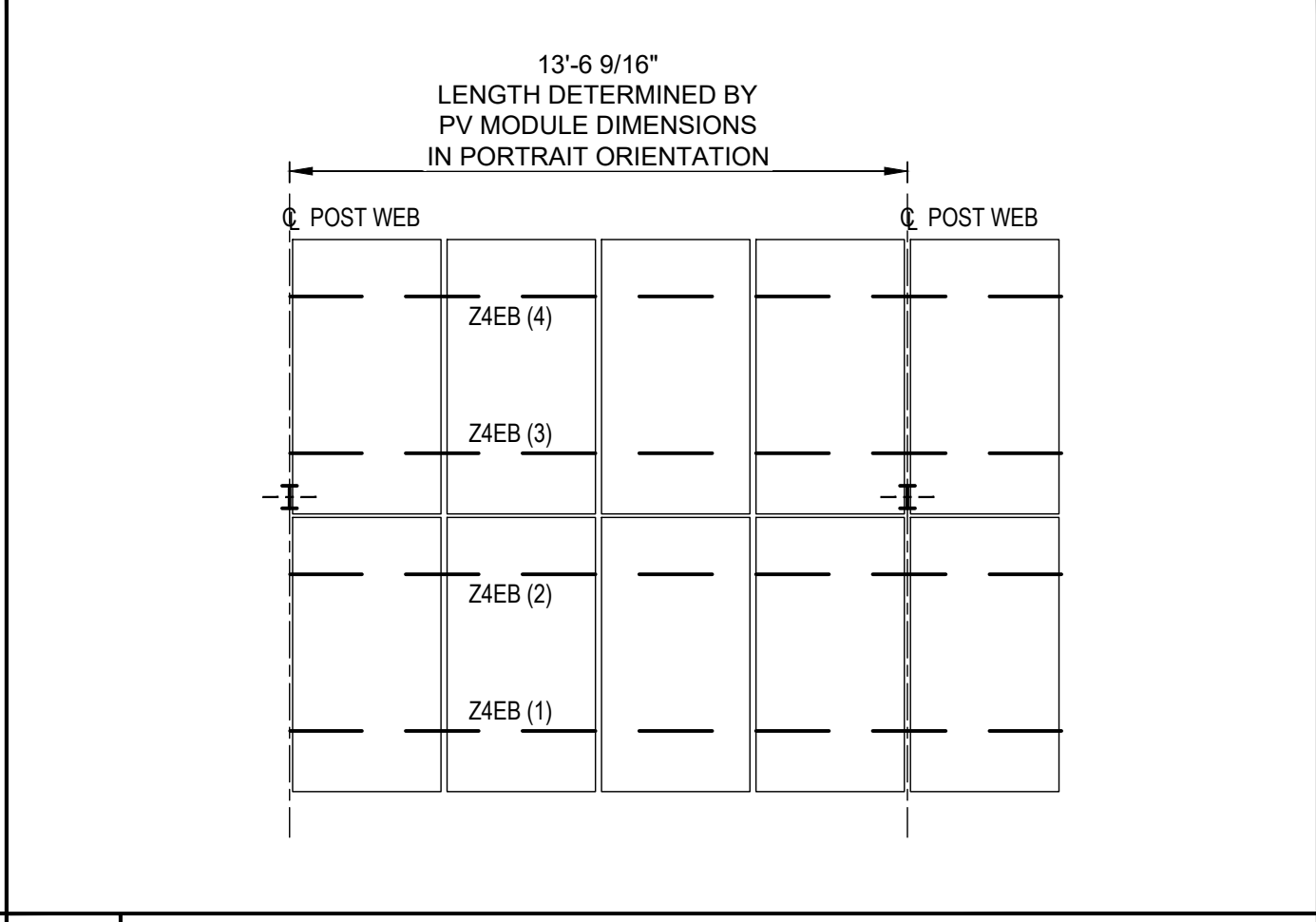
**G3 5P2B  
 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



**E3 4WP2B  
 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



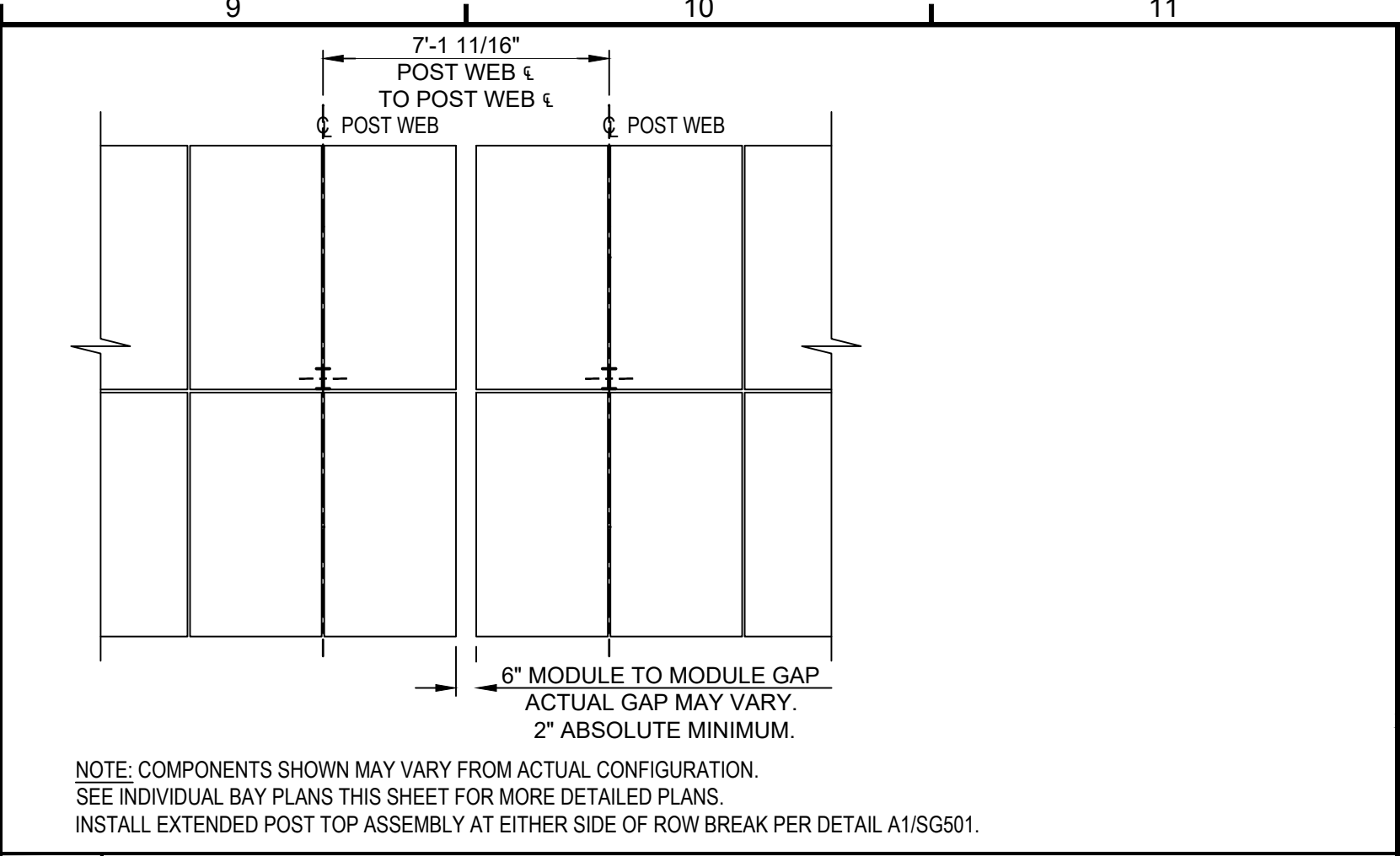
**C3 4P2B  
 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



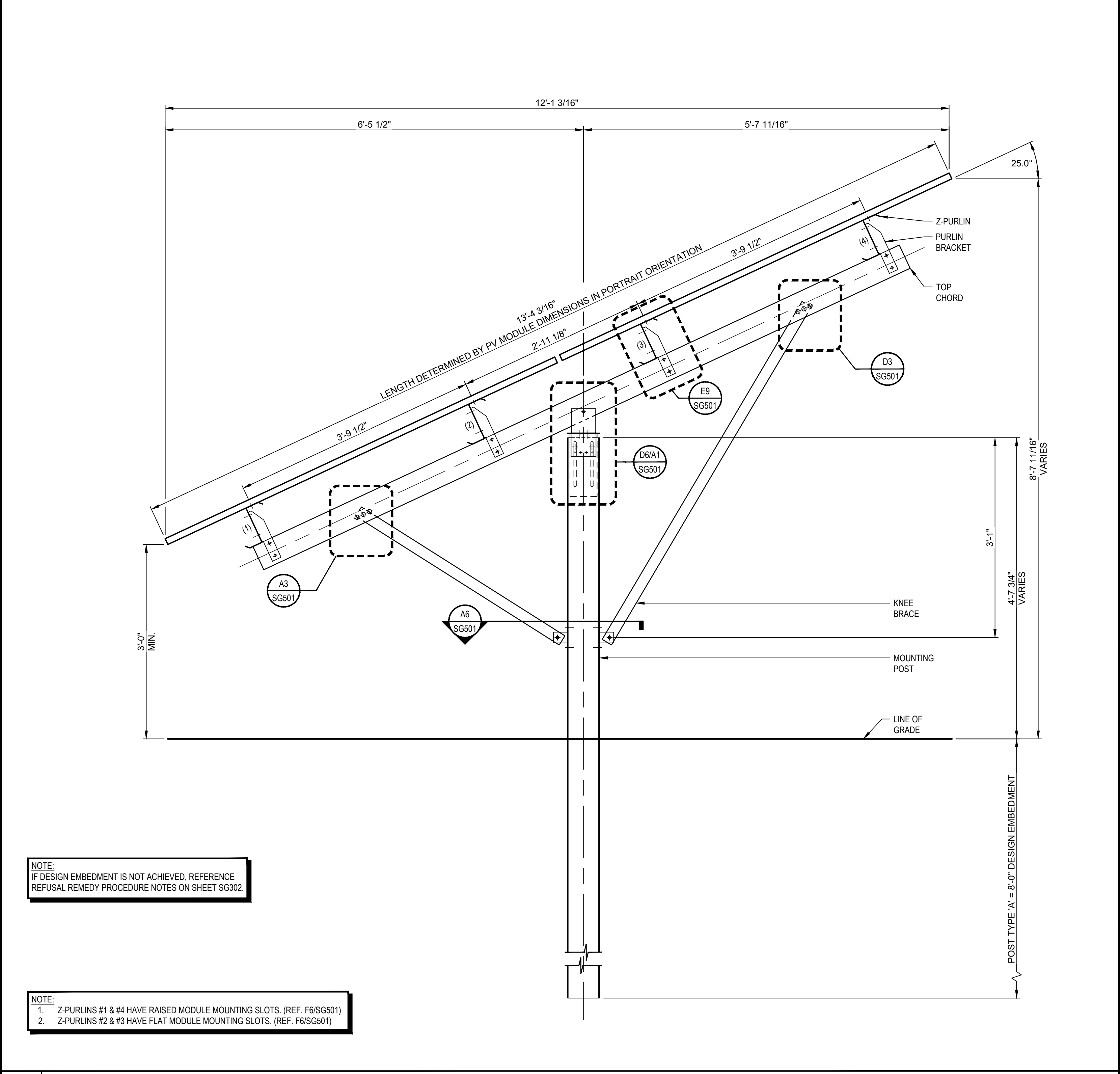
**A3 4EP2B  
 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"

NOT USED

**G6 -  
 BAY PLAN VIEW**  
 SCALE: 1/4" = 1'-0"



**G9 TYPICAL  
 ROW BREAK DETAIL**  
 SCALE: NONE



**A6 "B" CS3U PB-AG  
 RACK SECTION**  
 SCALE: 1" = 1'-0"

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
2	03/10/20	90% REVIEW
1	02/28/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:  
**STONINGTON TAUGWONK**

35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378

RBI SOLAR PROJECT No.:  
 2030067

DRAWN BY: JAB	REVIEWED BY: BDS / LKS
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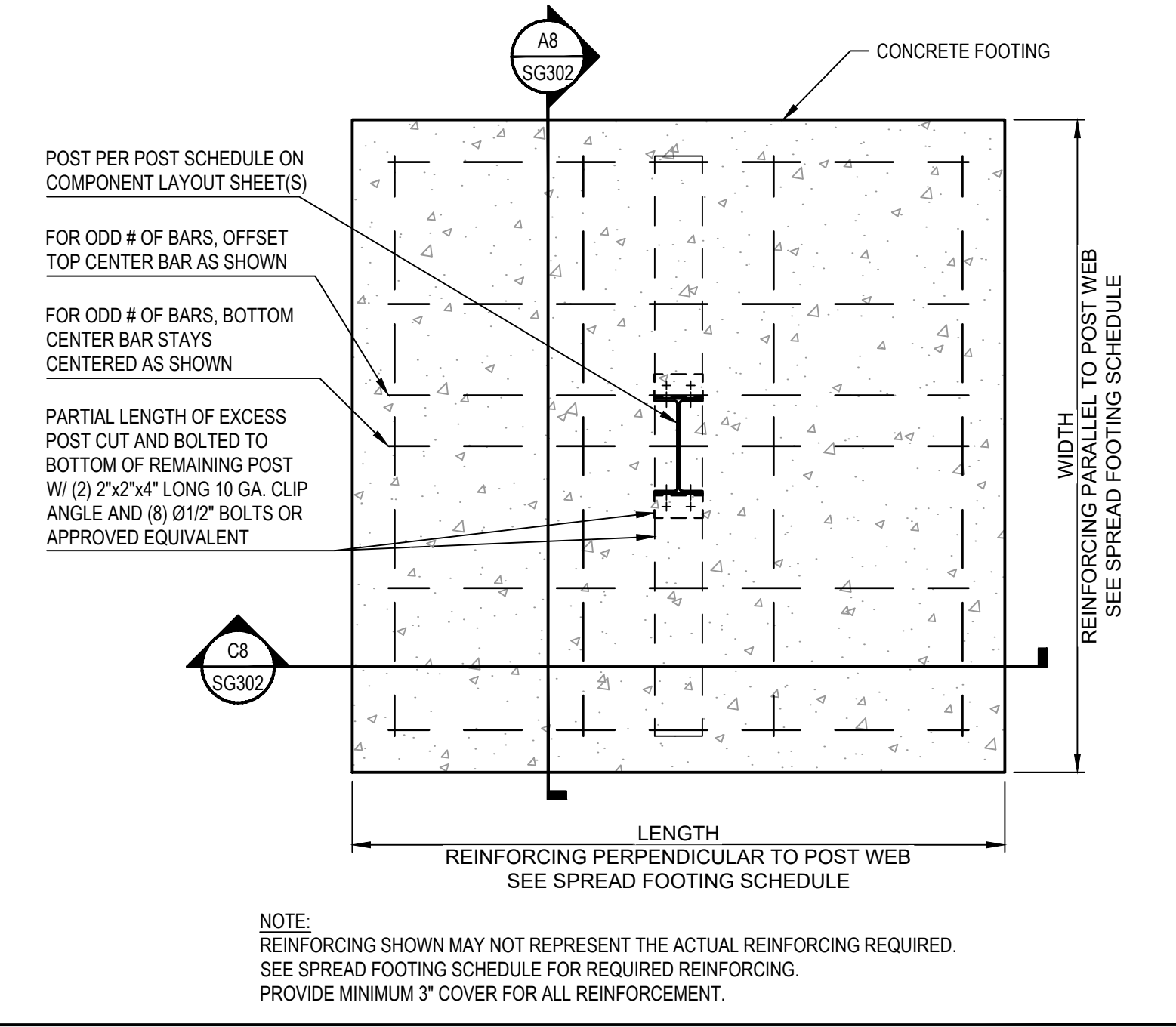
SHEET TITLE:  
 ALTERNATE FOUNDATIONS SECTIONS & DETAILS

SHEET No.:  
**SG303**

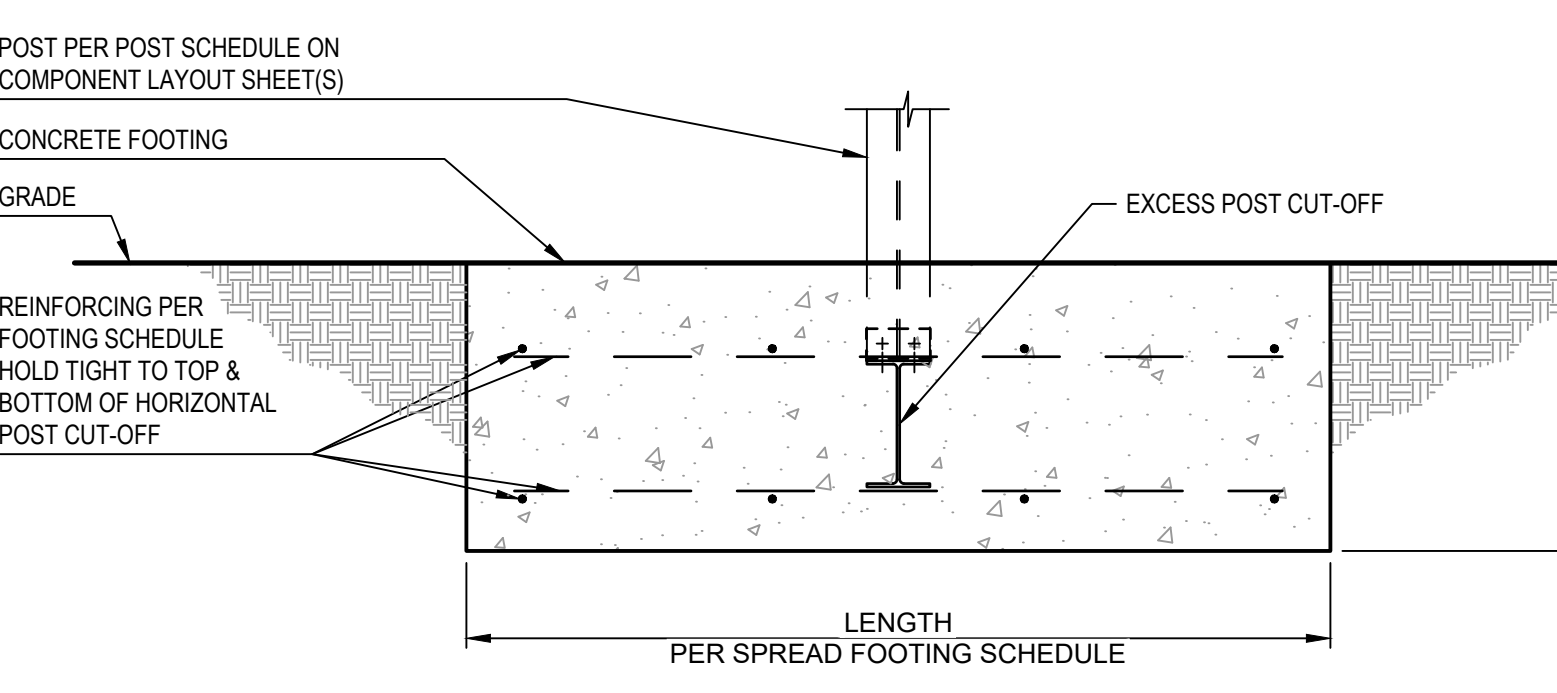
**SPREAD FOOTING SCHEDULE**

TYPE	LENGTH	WIDTH	DEPTH	REINFORCING PARALLEL TO POST WEB AND POST CUT-OFF	REINFORCING PERPENDICULAR TO POST WEB AND POST CUT-OFF
ALL	6'-9"	6'-9"	1'-6"	(6) #4 BARS T&B OR (6) #5 BARS T&B	(7) #4 BARS T&B OR (6) #5 BARS T&B
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

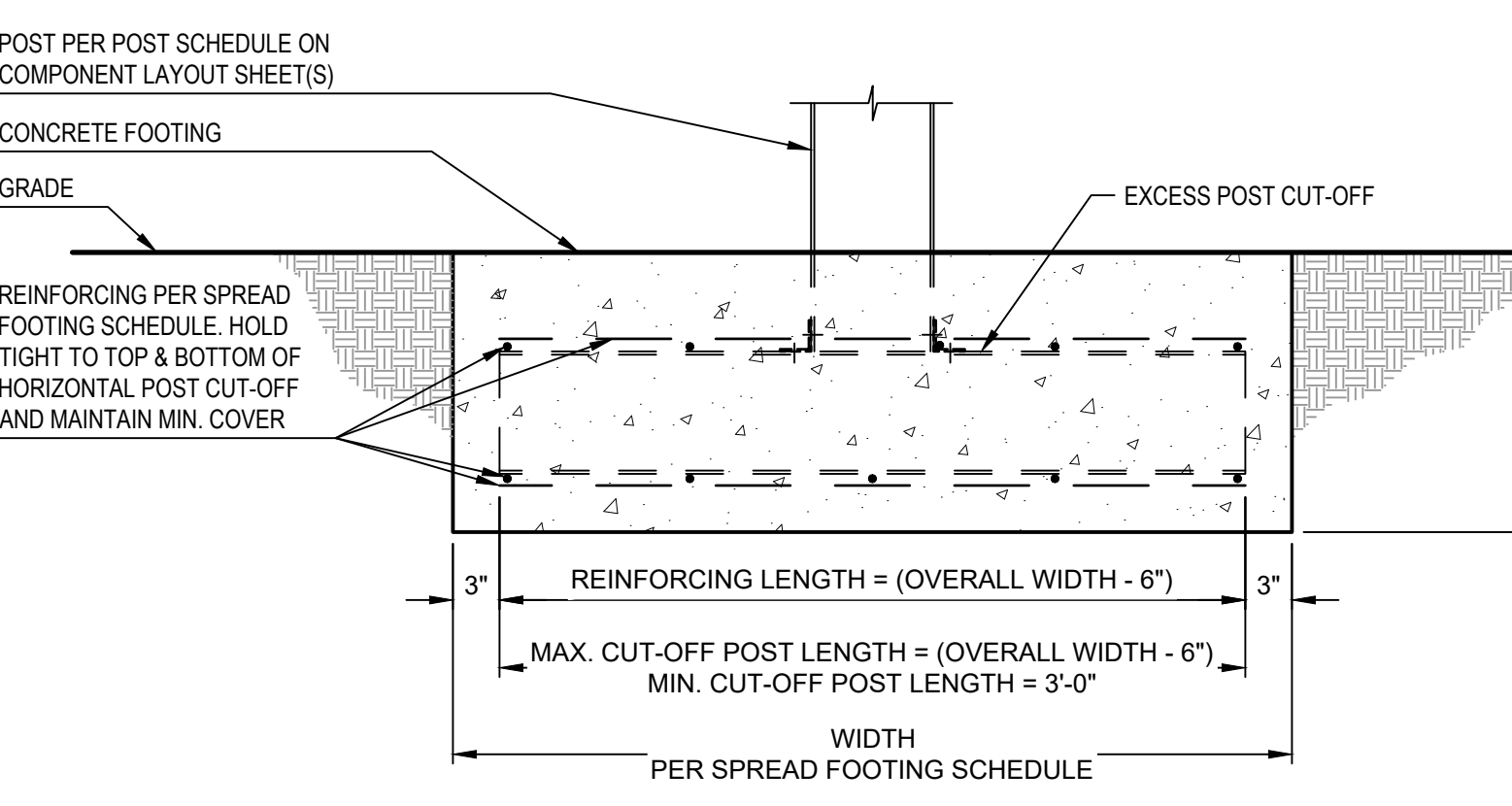
NOTE: ALL REINFORCING TO HAVE 3" MINIMUM COVER



**E8**  
 SCALE: 1" = 1'-0"  
**SPREAD FOOTING PLAN**



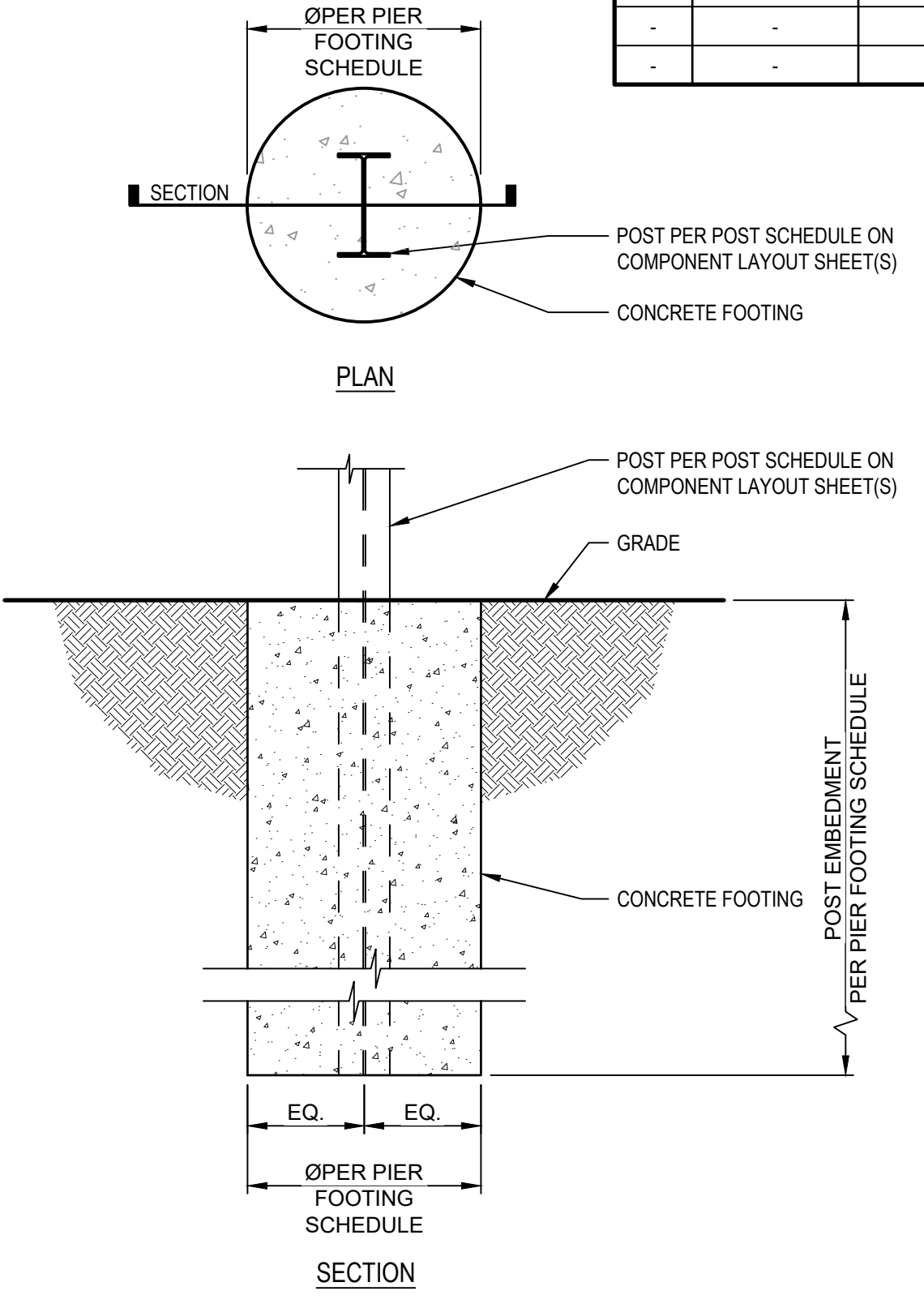
**C8**  
 SCALE: 1" = 1'-0"  
**SPREAD FOOTING SECTION**



**A8**  
 SCALE: 1" = 1'-0"  
**SPREAD FOOTING SECTION**

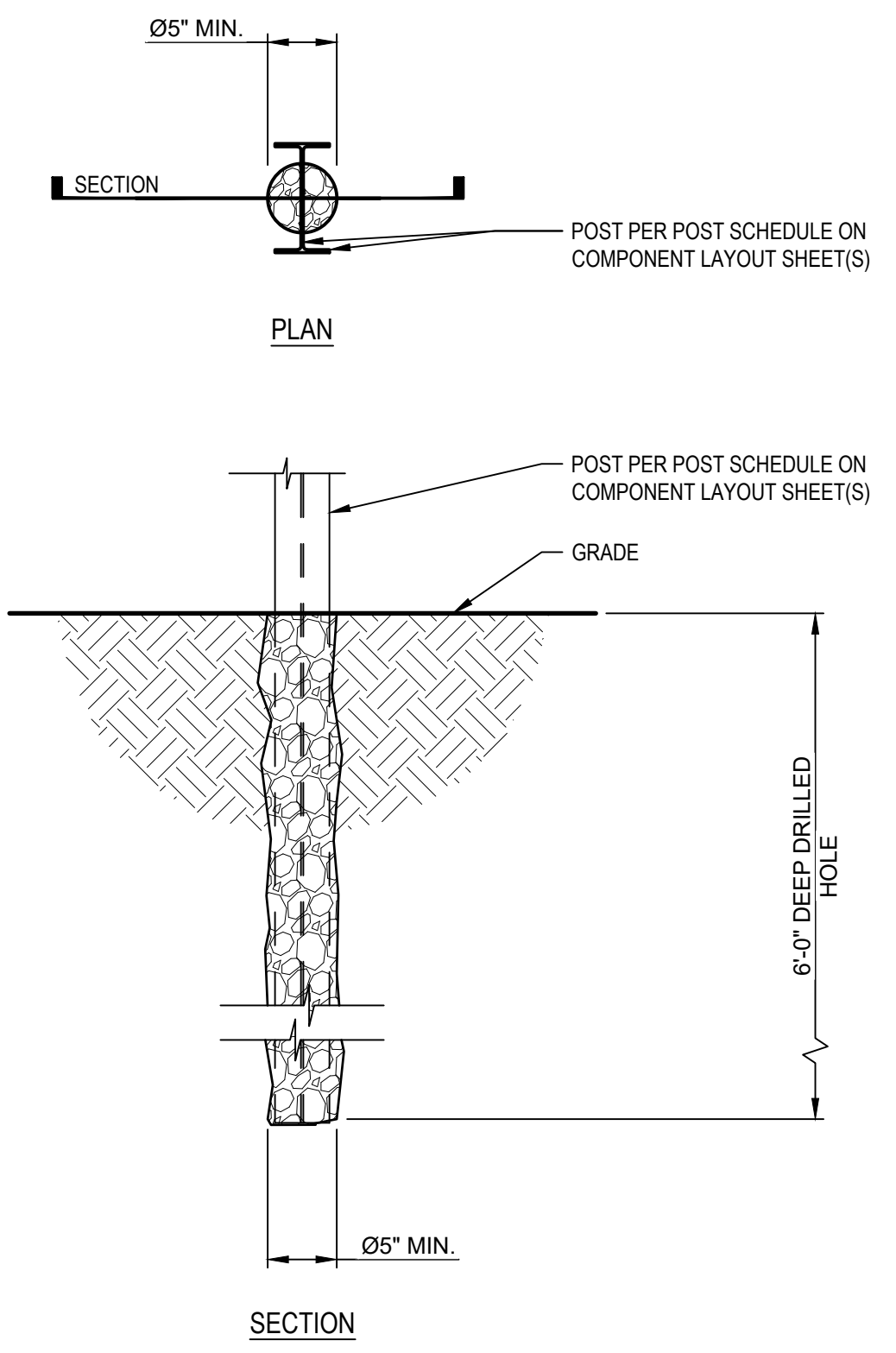
**PIER FOOTING SCHEDULE**

TYPE	DIAMETER	DEPTH
ALL	1'-6"	6'-6"
-	-	-
-	-	-
-	-	-



NOTE: CONCRETE PIER DEPTH SHALL MEET OR EXCEED DESIGN EMBEDMENT. BOTTOM OF STEEL POST MAY BE RAISED A MAXIMUM OF 1'-0" ABOVE DESIGN EMBEDMENT AS REQUIRED.

**E5**  
 SCALE: 1" = 1'-0"  
**PIER FOOTING DETAIL**



NOTE:  
 1. POST NOT REQUIRED TO BE CENTERED IN HOLE.  
 2. CONTACT RBI SOLAR PROJECT MANAGER FOR PRE-DRILL AND DRIVE PROCEDURE.  
 3. POST SHOULD BOTTOM OUT AT THE HOLE.

**A5**  
 SCALE: 1" = 1'-0"  
**PRE-DRILL & DRIVE DETAIL**

- REFUSAL REMEDY PROCEDURE:**
- WHEN DRIVEN POSTS DO NOT ACCOMPLISH DESIGN EMBEDMENT DEPTH(S) AS SPECIFIED ON A6/SG301 DUE TO REFUSAL, FOLLOW THIS PROCEDURE:
- WHEN REFUSAL IS ENCOUNTERED, EFFORTS TO DRIVE THE POST FURTHER SHOULD BE STOPPED AND DRIVEN POST DEPTH AND LOCATION SHALL BE RECORDED.
  - IF POST DID NOT REACH THE REFUSAL MINIMUM EMBEDMENT DEPTH OF 5.0 FEET, RELOCATE POST LOCATION 16-24 INCHES EAST OR WEST (WITH EXCEPTION OF START/END OF ROW POSTS) IN THE SAME LONGITUDINAL PLANE FROM THE ORIGINAL POST. START/END OF ROW POSTS SHALL BE RELOCATED IN THE DIRECTION THAT REDUCES THE PURLIN MEMBER CANTILEVER LENGTH BY 18-24 INCHES.
  - ATTEMPT TO DRIVE RELOCATED POST TO THE DESIGN EMBEDMENT DEPTH SPECIFIED ON A6/SG301. IF POST DOES NOT REACH THE MINIMUM EMBEDMENT DEPTH OF 5.0 FEET, AN ALTERNATE FOUNDATION SHALL BE REQUIRED.
  - IF POST DOES NOT REACH DESIGN EMBEDMENT DEPTH SPECIFIED ON A6/SG301 BUT REACHED THE MINIMUM EMBEDMENT DEPTH OF 5.0 FEET, THE POST MUST PASS THE FOLLOWING VERTICAL AND LATERAL TESTS:
    - VERTICAL TEST - MINIMUM UPLIFT FORCE 4500 LBS. RESULTING IN VERTICAL DEFLECTION LESS THAN 1/2".
    - LATERAL TEST - MINIMUM LATERAL FORCE 3750 LBS. APPLIED AT 4 FEET ABOVE GRADE AND POST DEFLECTION < 1.00 INCH MEASURED AT GRADE.
  - ANY POST BELOW THE DESIGN EMBEDMENT DEPTH THAT DOES NOT PASS THE VERTICAL AND LATERAL TEST SHALL REQUIRE AN ALTERNATE FOUNDATION.
  - IF THE POST REACHED THE MINIMUM EMBEDMENT DEPTH OF 5.0 FEET AND PASSED THE VERTICAL AND LATERAL TESTS SPECIFIED ABOVE, THE POST CAN BE FIELD-CUT AND DRILLED ACCORDINGLY.
  - ALL FIELD-CUT SURFACES SHALL BE PAINTED WITH BRUSH-ON GALVANIZING PAINT. RBI SOLAR DOES NOT RECOMMEND SPRAY GALVANIZING FOR REPAIR AND PAINTING OF CUT SURFACES.
  - FOR INSTANCES WHERE IT IS DESIRED TO REDUCE THE POST EMBEDMENT BUT REFUSAL IS NOT ENCOUNTERED, PLEASE CONTACT THE RBI SOLAR ENGINEERING DEPARTMENT FOR RECOMMENDATIONS.

**A2**  
 SCALE: NONE  
**REFUSAL REMEDY PROCEDURE**

RELEASE RECORD

MARK	DATE	DESCRIPTION
4	03/16/20	FOR CONSTRUCTION
3	03/13/20	90% REVIEW
2	03/10/20	90% REVIEW
1	02/28/20	50% REVIEW

PROJECT INFORMATION

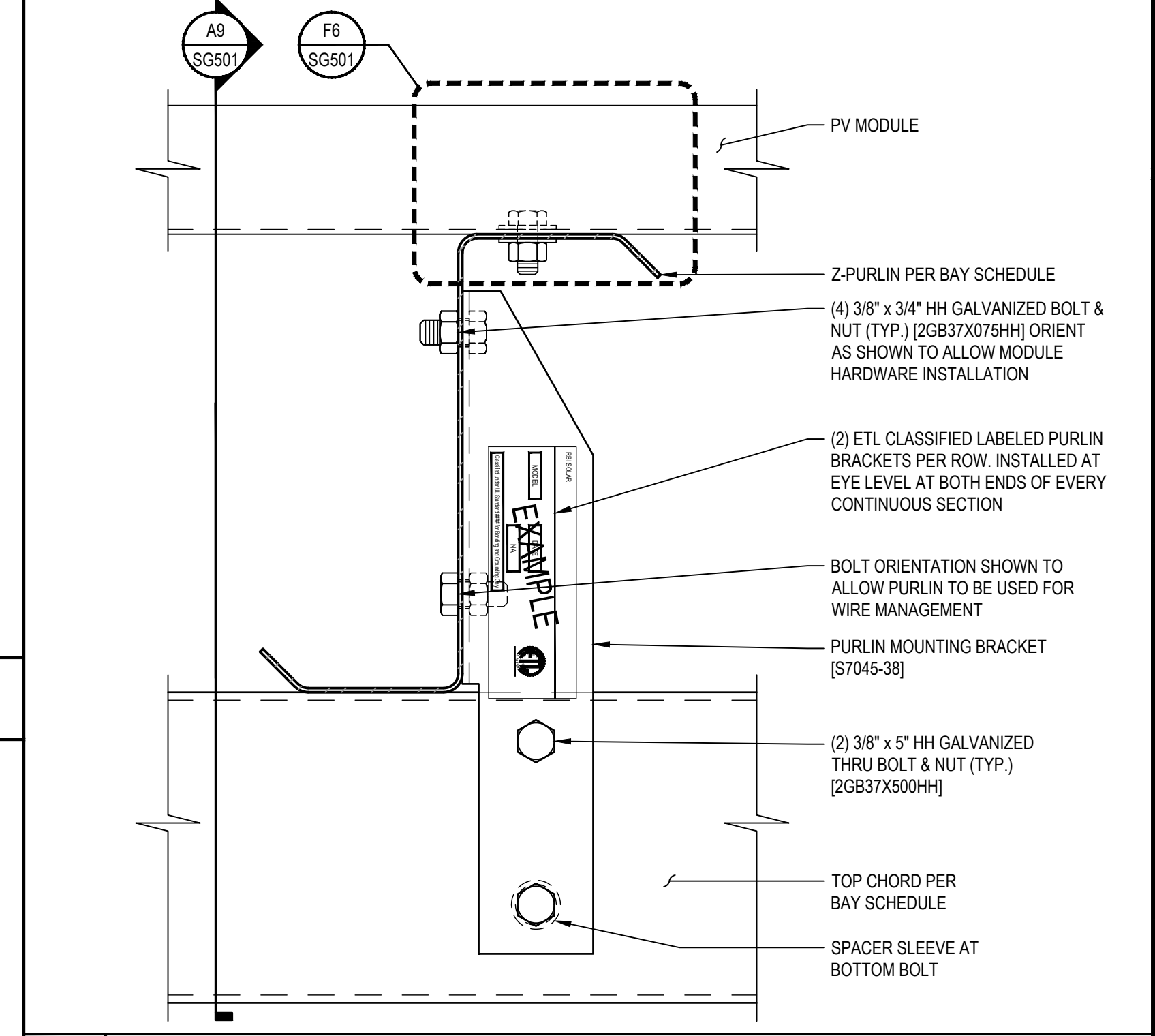
TITLE & ADDRESS:  
**STONINGTON TAUGWONK**

35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378

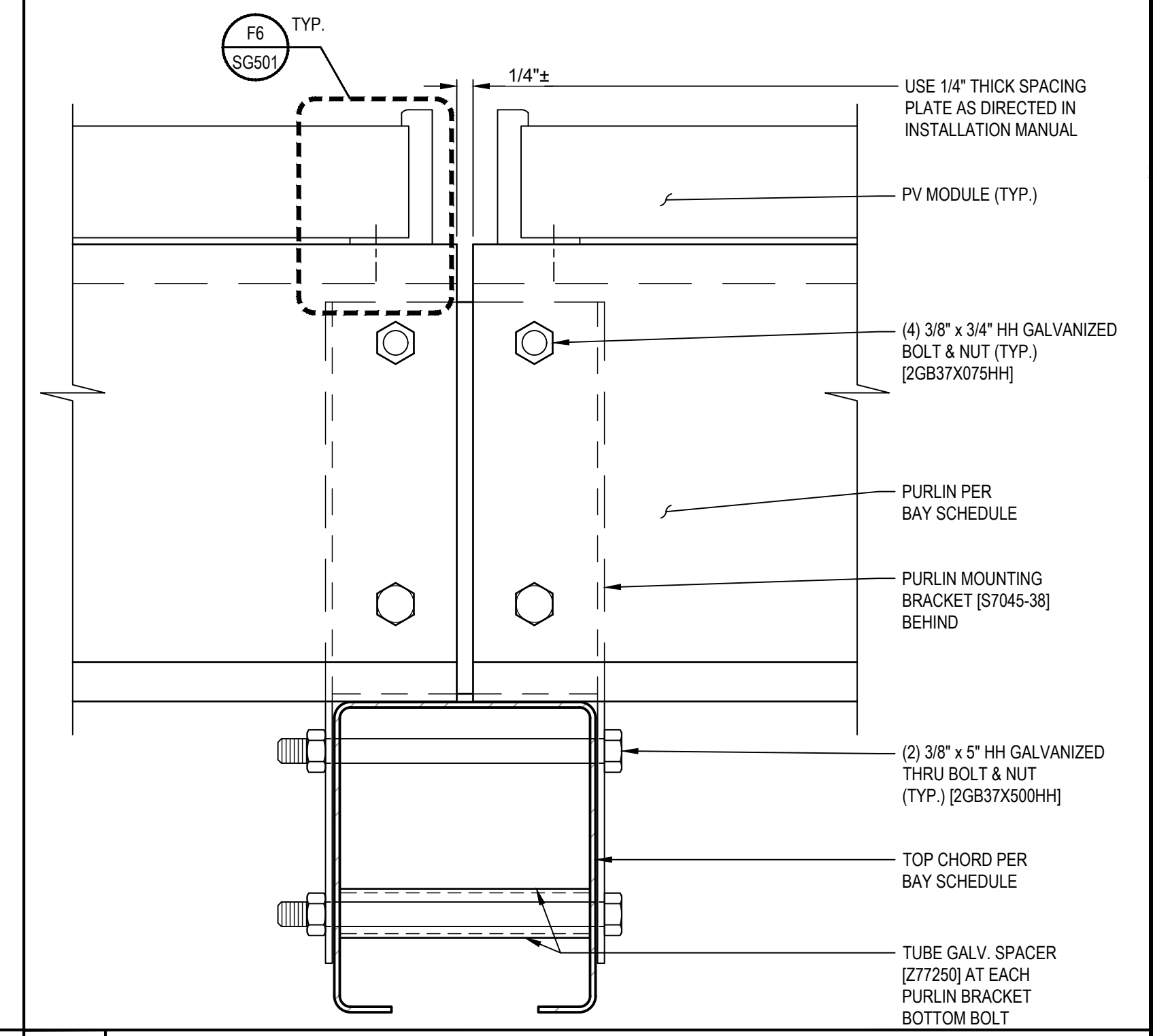
RBI SOLAR PROJECT No.:  
 2030067

DRAWN BY: JAB  
 REVIEWED BY: BDS / LKS

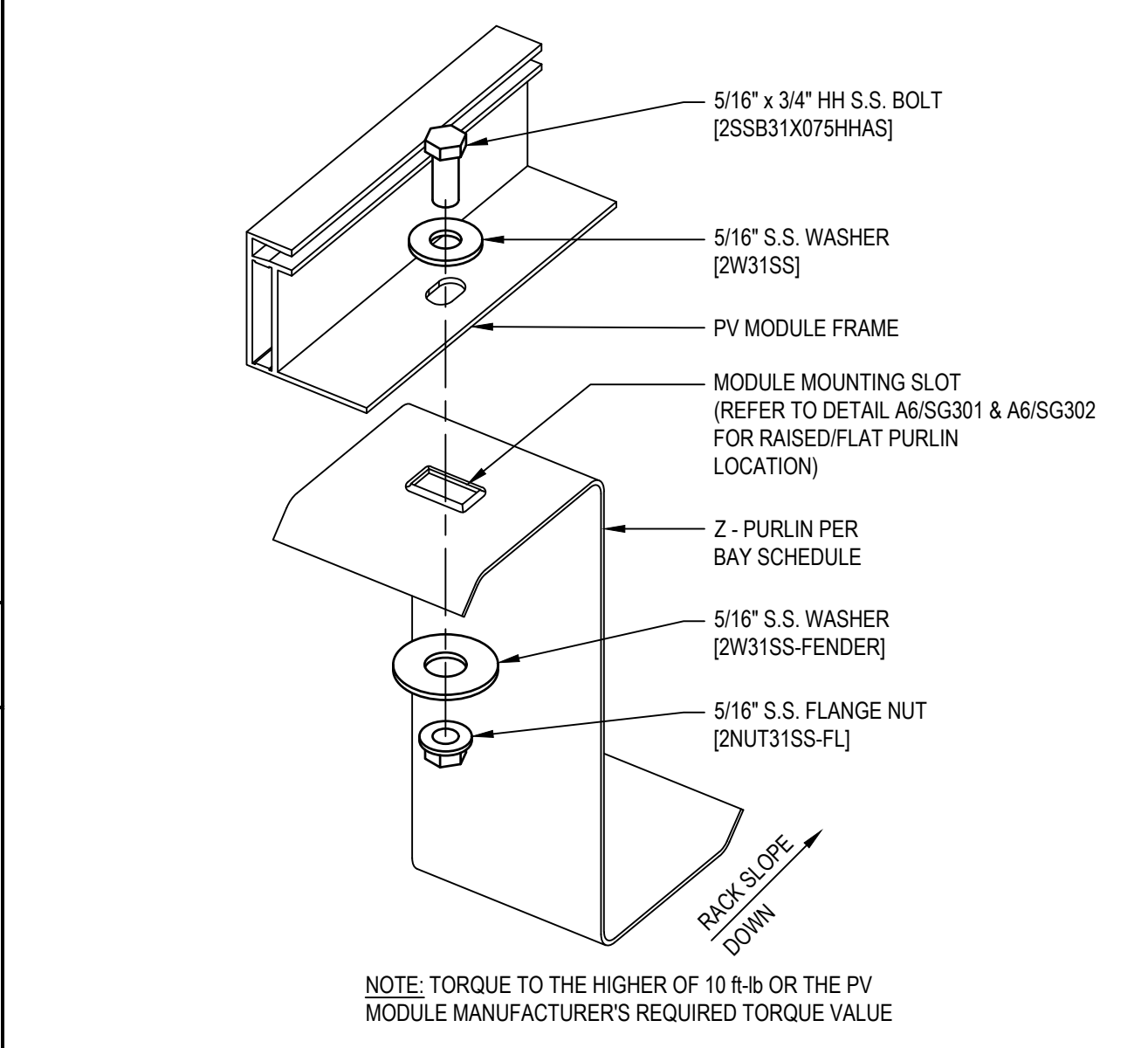
SHEET TITLE:  
**DETAILS**  
 SHEET No.:  
**SG501**



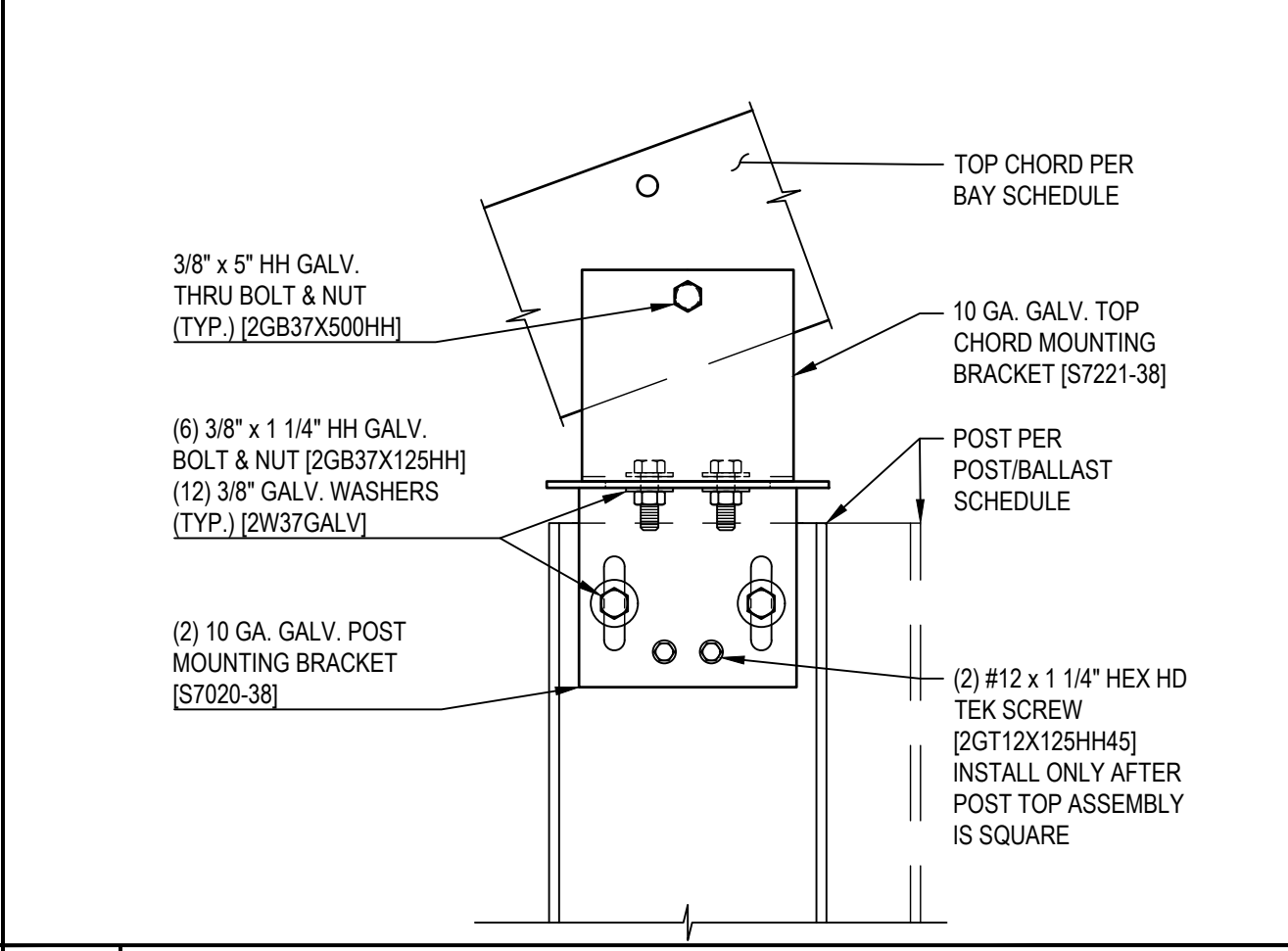
**E9 TRANSVERSE PURLIN CONNECTION DETAIL**  
 SCALE: 6" = 1'-0"



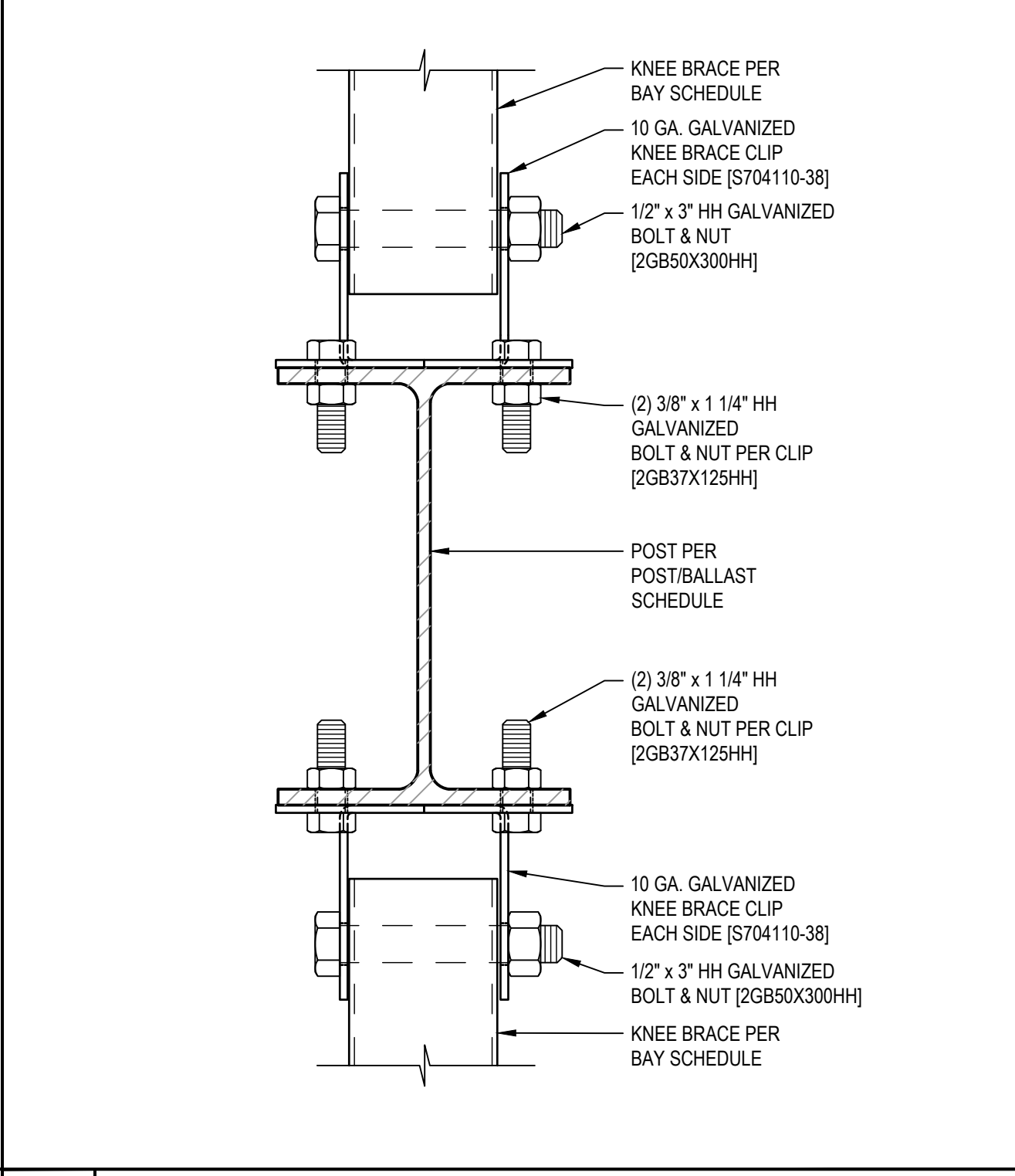
**A9 LONGITUDINAL PURLIN CONNECTION DETAIL**  
 SCALE: 6" = 1'-0"



**F6 PV MODULE TO PURLIN CONNECTION DETAIL**  
 SCALE: NONE

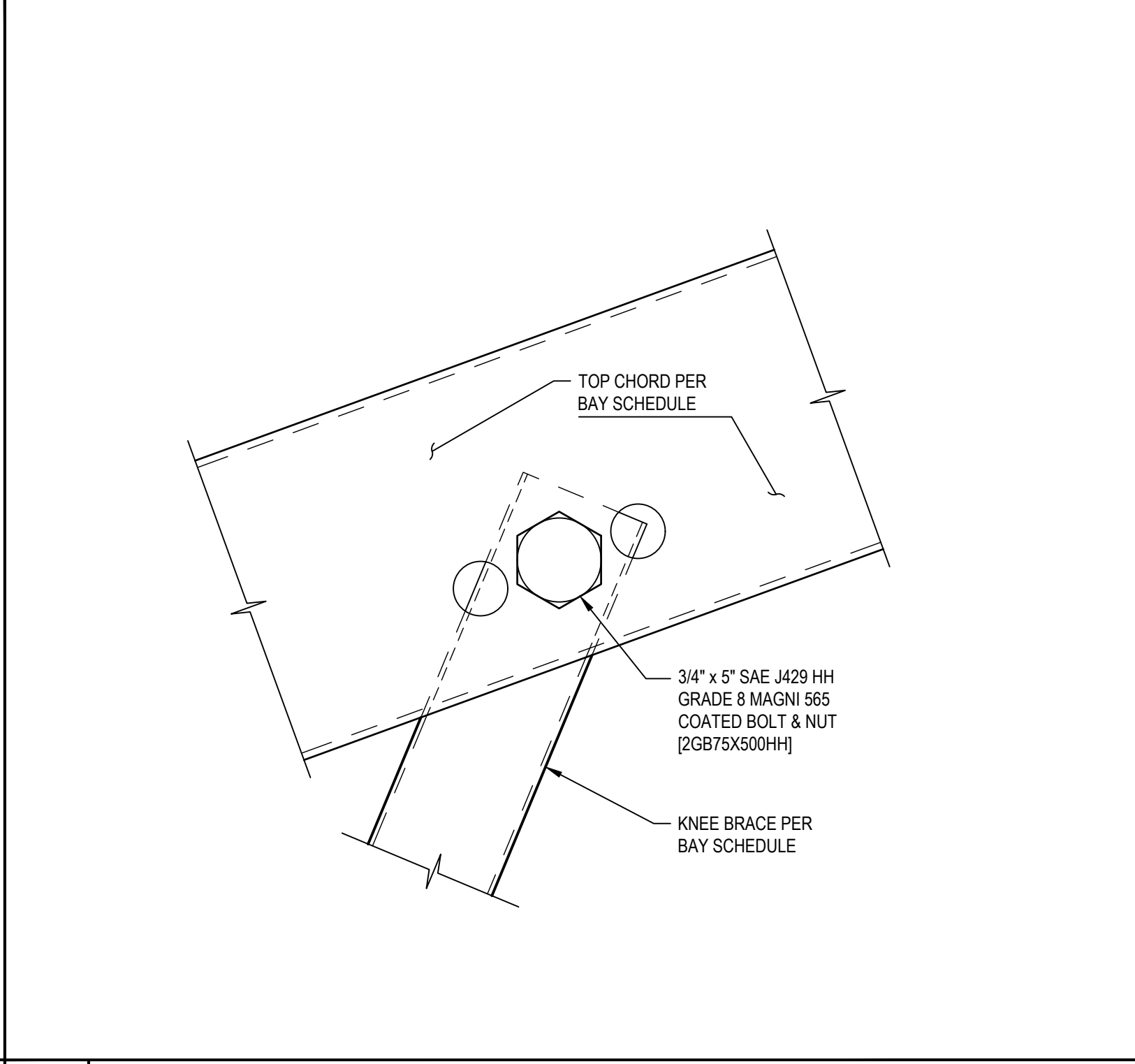


**D6 TOP CHORD TO POST CONNECTION DETAIL**  
 SCALE: 3" = 1'-0"

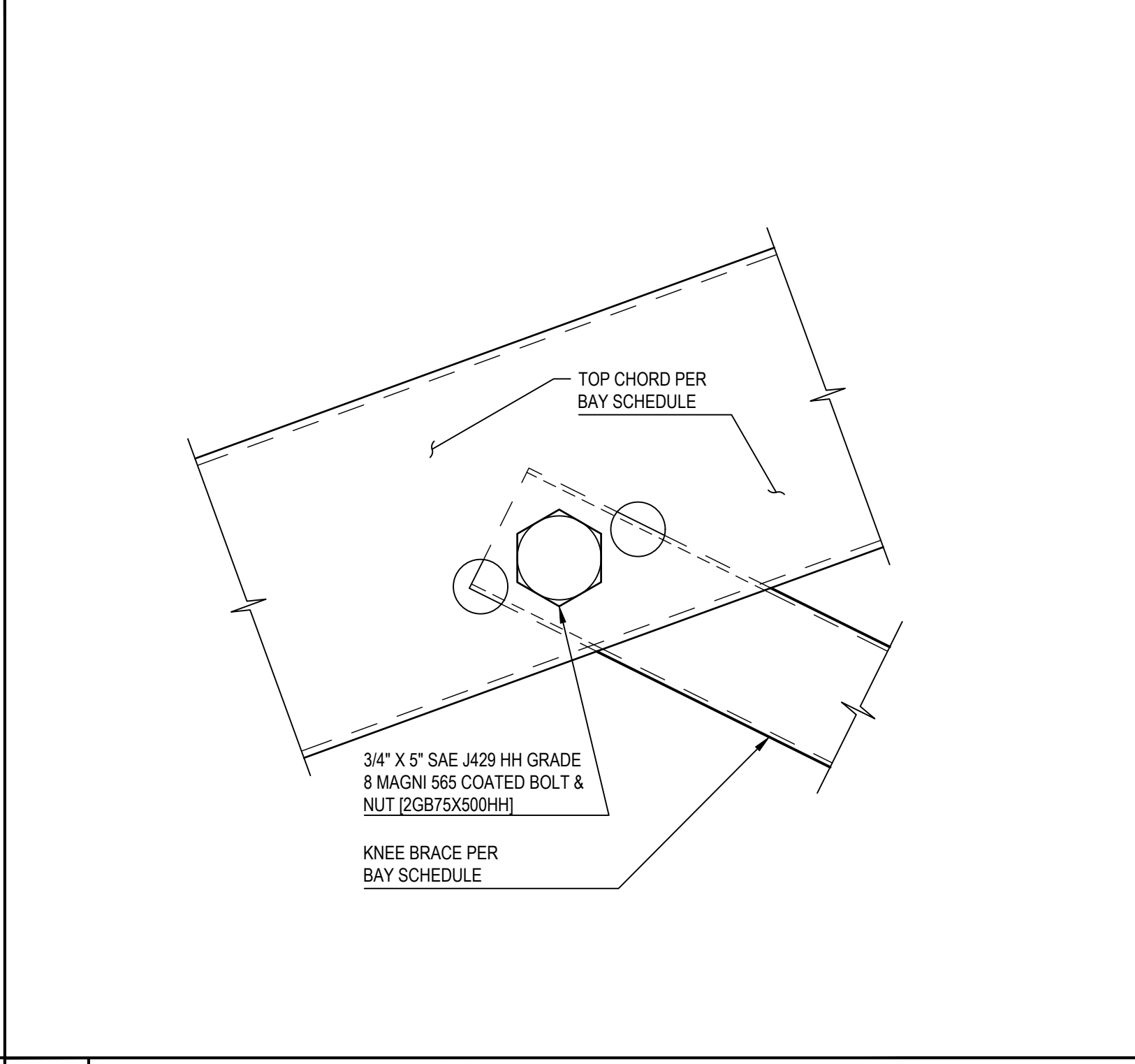


**A6 KNEE BRACE TO POST CONNECTION DETAIL**  
 SCALE: 6" = 1'-0"

**G3 X-BRACING ELEVATION**  
 SCALE: 1/2" = 1'-0"

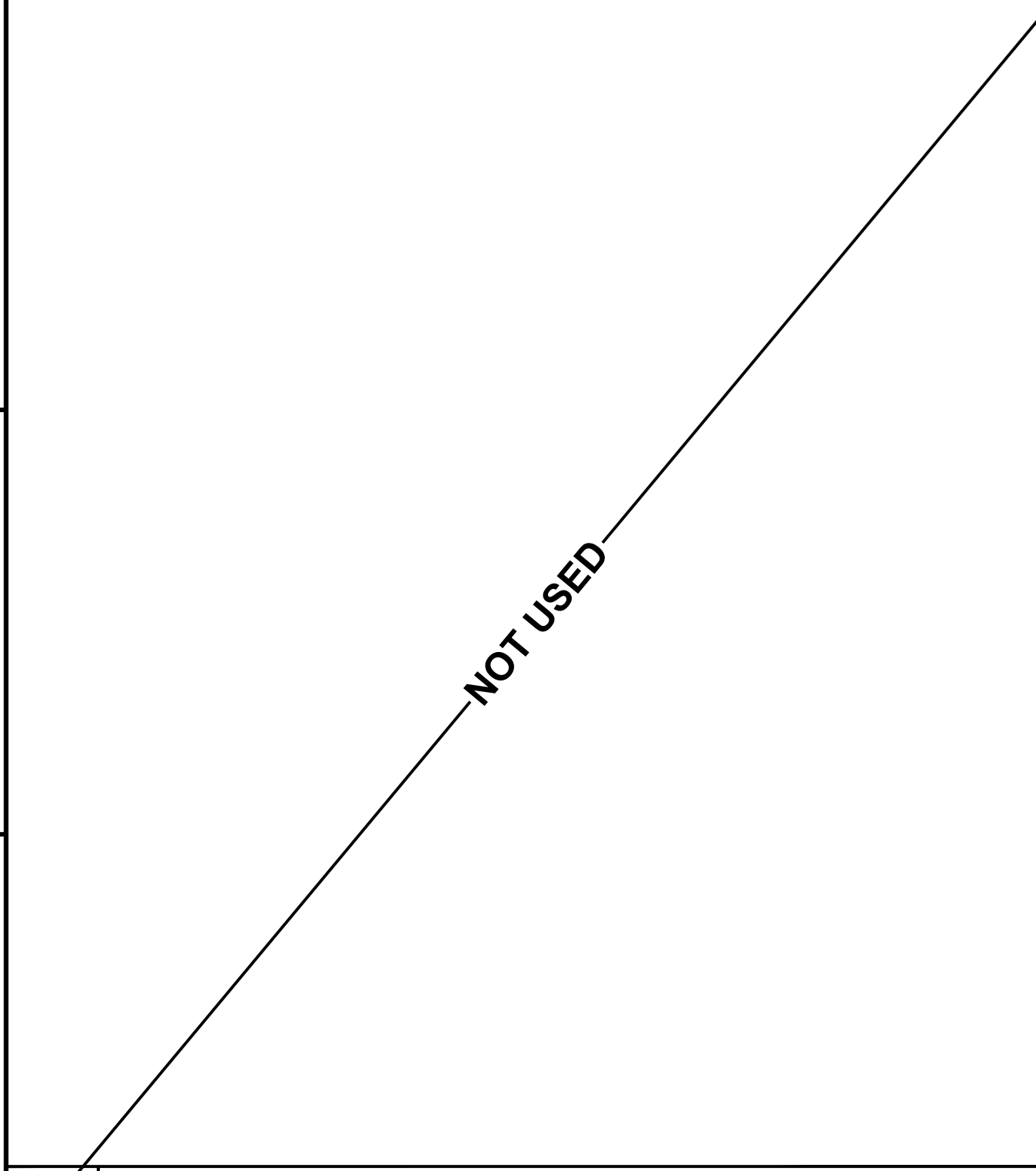


**D3 UPPER KNEE BRACE TO TOP CHORD CONNECTION DETAIL**  
 SCALE: 6" = 1'-0"

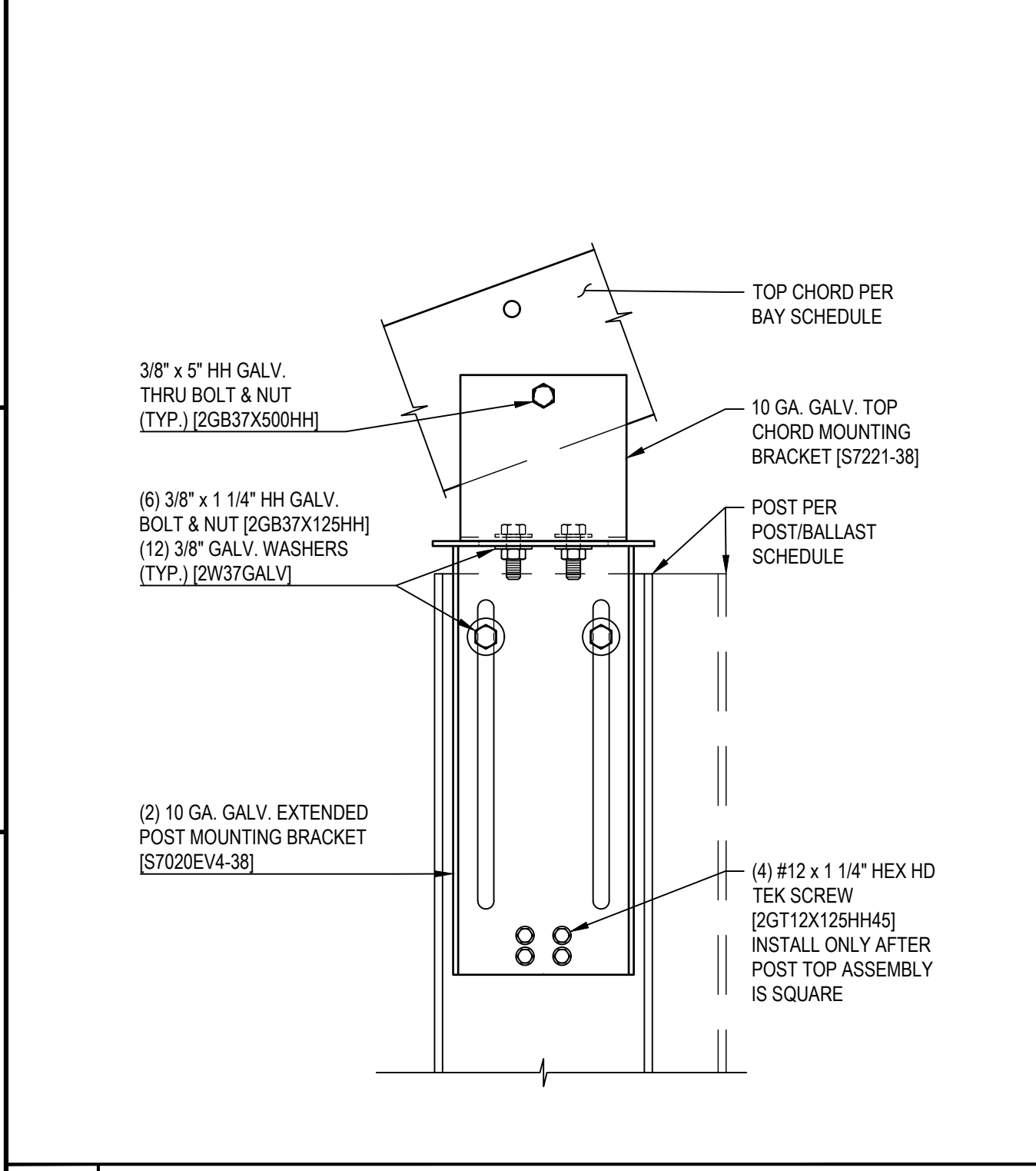


**A3 LOWER KNEE BRACE TO TOP CHORD CONNECTION DETAIL**  
 SCALE: 6" = 1'-0"

**G1 X-BRACE TO POST CONNECTION DETAIL**  
 SCALE: 1/2" = 1'-0"



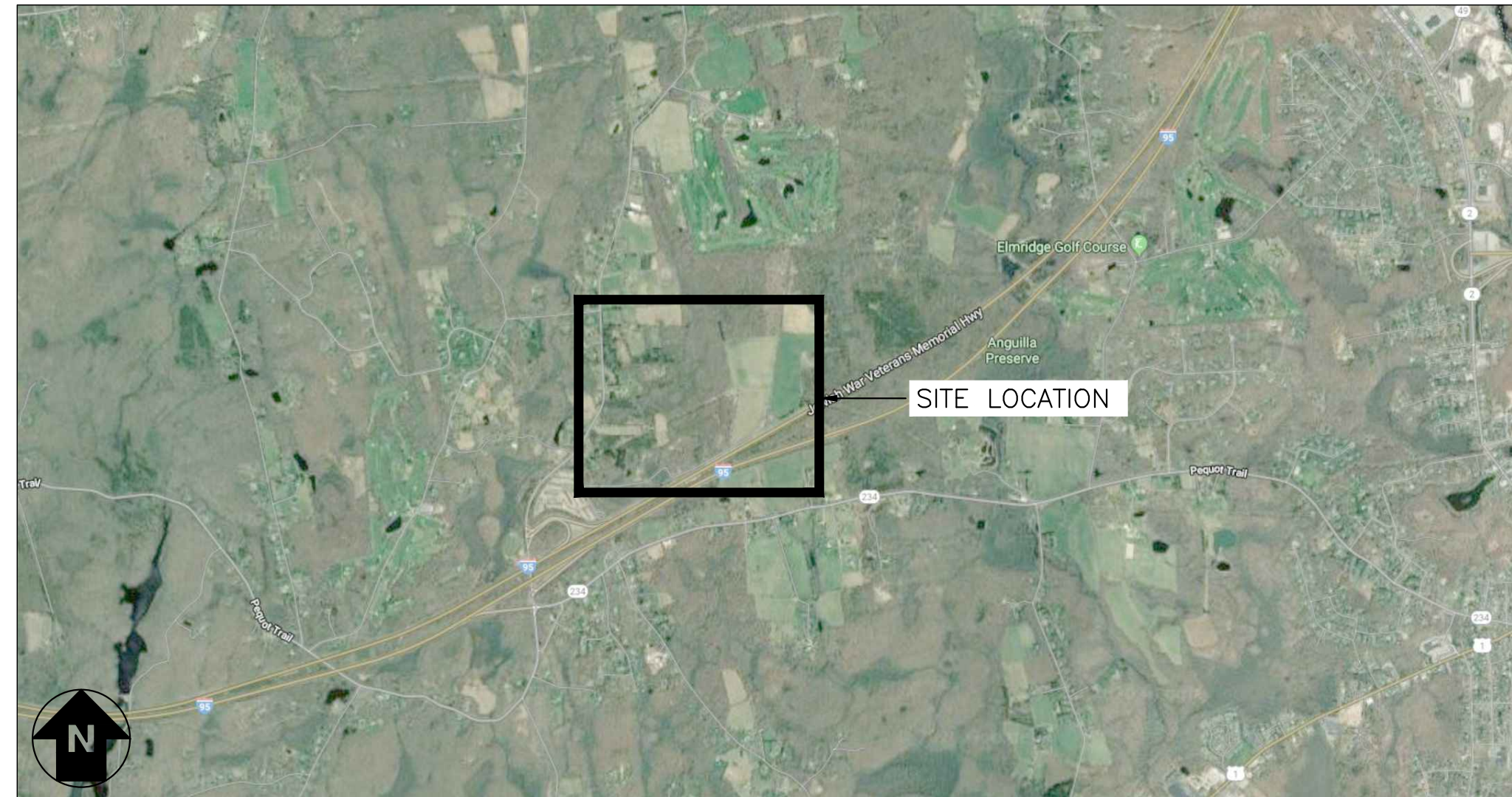
**D1 WEEB PV MODULE BONDING WASHER DETAIL**  
 SCALE: NONE



**A1 TOP CHORD TO POST CONNECTION DETAIL (EXTENDED)**  
 SCALE: 3" = 1'-0"

# 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK

35 TAUGWONK SPUR RD., STONINGTON, CT 06378



LOCATION MAP  
SCALE: 1" = 1000'-0"



SYSTEM PLAN  
SCALE: 1" = 300'-0"

## DRAWING INDEX

GENERAL		CONCEPTUAL DESIGN	PERMIT SET	PERMIT SET - REV 1	PERMIT SET - REV 2
G001	TITLE SHEET	●	●	●	●
<b>ELECTRICAL</b>					
E001	ELECTRICAL NOTES & SYMBOL LIST		●	●	○
E100	OVERALL AC ELECTRICAL PLAN	●	●	●	●
E101	PARTIAL AC ELECTRICAL PLAN - SYSTEM 1		●	●	●
E102	PARTIAL AC ELECTRICAL PLAN - SYSTEM 2		●	●	○
E103	PARTIAL AC ELECTRICAL PLAN - SYSTEM 3		●	●	○
E104	PARTIAL AC ELECTRICAL PLAN - SYSTEM 4		●	●	○
E105	PARTIAL AC ELECTRICAL PLAN - SYSTEM 5		●	●	○
E106	PARTIAL AC ELECTRICAL PLAN - SYSTEM 6		●	●	○
E107	TYPICAL INVERTER & EQUIPMENT PLAN		●	●	○
E108	EQUIPMENT MOUNTING DETAILS IN ARRAY		●	●	○
E109	MEDIUM VOLTAGE EQUIPMENT PLAN		●	●	●
E110	POLE LINE DETAILS		●	●	●
E200	PARTIAL DC ELECTRICAL PLAN - SYSTEM 1		●	●	○
E201	PARTIAL DC ELECTRICAL PLAN - SYSTEM 2		●	●	○
E202	PARTIAL DC ELECTRICAL PLAN - SYSTEM 3		●	●	○
E203	PARTIAL DC ELECTRICAL PLAN - SYSTEM 4		●	●	○
E204	PARTIAL DC ELECTRICAL PLAN - SYSTEM 5		●	●	○
E205	PARTIAL DC ELECTRICAL PLAN - SYSTEM 6		●	●	○
E206	STRING WIRING DETAILS		●	○	○
E300	ONE LINE DIAGRAM - MEDIUM VOLTAGE		●	●	●
E301	ONE LINE DIAGRAM - SYSTEM 1		●	●	●
E302	ONE LINE DIAGRAM - SYSTEM 2		●	●	●
E303	ONE LINE DIAGRAM - SYSTEM 3		●	●	●
E304	ONE LINE DIAGRAM - SYSTEM 4		●	●	●
E305	ONE LINE DIAGRAM - SYSTEM 5		●	●	●
E306	ONE LINE DIAGRAM - SYSTEM 6		●	●	●
E310	SCHEDULES & CALCULATIONS		●	●	○
E311	SCHEDULES & CALCULATIONS		●	●	○
E312	SCHEDULES & CALCULATIONS		●	●	○
E313	SCHEDULES & CALCULATIONS		●	●	○
E401	GROUNDING DETAILS		●	●	○
E402	ELECTRICAL DETAILS		●	○	○
E500	LABELS & SIGNAGE		●	●	○
E501	MEDIUM VOLTAGE LABELS & SIGNAGE		●	●	○
E600	EQUIPMENT DATA SHEETS		●	○	○
E700	MONITORING SYSTEM WIRING DIAGRAM		●	●	●

LEGEND:

UPDATED DRAWING ISSUED	●
UNCHANGED, PREVIOUSLY ISSUED DRAWING STILL CURRENT	○
DRAWING REMOVED FROM SET	×

## TOTAL SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE: 6095.440 kWDC  
AC SYSTEM SIZE: 4980.000 kWAC

MODULE MANUFACTURER: CANADIAN SOLAR  
MODULE MODEL: CS3U-360PB-AG/CS3W-400PB-AG  
MODULES PER STRING: 26  
MODULE QUANTITY: 8294/7774  
STRING QUANTITY: 319/299

MODULE TILT: 25°  
MODULE AZIMUTH: 0°

INVERTER MANUFACTURER: SOLECTRIA  
INVERTER MODEL: XGI-1500 125/125, 150/166, 166/166  
INVERTER QUANTITY: 32, 1, 5

## SUBSYSTEM SUMMARIES:

PHASE 1 - SYSTEM 1	PHASE 1 - SYSTEM 3	PHASE 2 - SYSTEM 5
TOTAL DC SIZE: 1254.240 kWDC	TOTAL DC SIZE: 632.320 kWDC	TOTAL DC SIZE: 1151.280 kWDC
AC SYSTEM SIZE: 1000.000 kWAC	AC SYSTEM SIZE: 500.000 kWAC	AC SYSTEM SIZE: 980.000 kWAC
MODULE QUANTITY: 1664 (360W)	MODULE QUANTITY: 832 (360W)	MODULE QUANTITY: 1638 (360W)
MODULE QUANTITY: 1638 (400W)	MODULE QUANTITY: 832 (400W)	MODULE QUANTITY: 1404 (400W)
STRING QUANTITY: 127	STRING QUANTITY: 52	STRING QUANTITY: 117

PHASE 1 - SYSTEM 2	PHASE 2 - SYSTEM 4	PHASE 2 - SYSTEM 6
TOTAL DC SIZE: 1243.840 kWDC	TOTAL DC SIZE: 1223.040 kWDC	TOTAL DC SIZE: 590.720 kWDC
AC SYSTEM SIZE: 1000.000 kWAC	AC SYSTEM SIZE: 1000.000 kWAC	AC SYSTEM SIZE: 500.000 kWAC
MODULE QUANTITY: 1664 (360W)	MODULE QUANTITY: 1664 (360W)	MODULE QUANTITY: 832 (360W)
MODULE QUANTITY: 1612 (400W)	MODULE QUANTITY: 1560 (400W)	MODULE QUANTITY: 728 (400W)
STRING QUANTITY: 126	STRING QUANTITY: 124	STRING QUANTITY: 60

## SCOPE OF WORK SUMMARY

GROUND MOUNT PV ARRAY:  
INSTALL SOLAR MODULES AND RACKING SYSTEM ON GROUND LEVEL. INSTALL INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT TO INTERCONNECT AT NEW ELECTRICAL DISTRIBUTION EQUIPMENT.

DEVELOPER:



180 JOHNSON STREET,  
MIDDLETOWN, CT 06457

ENGINEERED BY:



5 MARINE VIEW PLAZA, SUITE 301  
HOBOKEN, NEW JERSEY, 07030

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW  
AC SYSTEM SIZE: 4980.000 KW  
MODULE TYPE: CANADIAN 360W/400W  
MODULE QUANTITY: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

DEVELOPER: Greenskies a Clean Focus company  
180 JOHNSON STREET, MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM

PAGE SIZE: 36" x 24"  
PROJECT #: PPE 00083

REVISION DESCRIPTION: PERMIT SET - REV 2, PERMIT SET - REV 1, PERMIT SET, CONCEPTUAL DESIGN  
DATE: 04/03/2020, 03/13/2020, 02/19/2020, 01/31/2020

PUREPOWER ENGINEERING  
5 MARINE VIEW PLAZA, HOBOKEN, NJ  
WWW.PUREPOWER.COM  
RICHARD A. TONIN  
CT LICENSE NO. 0082982

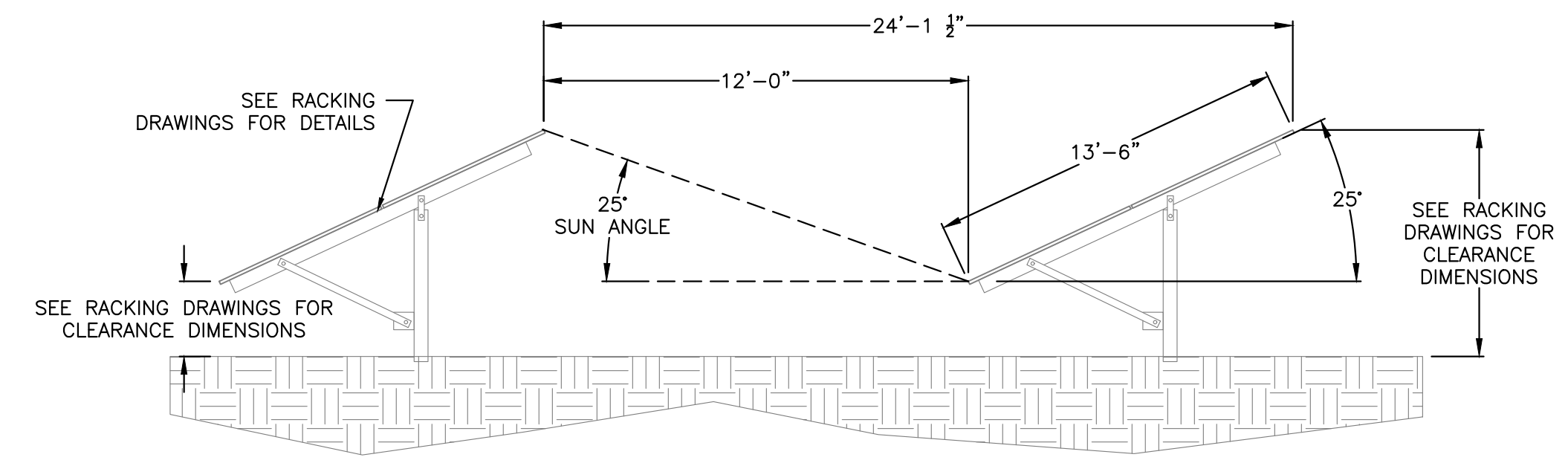
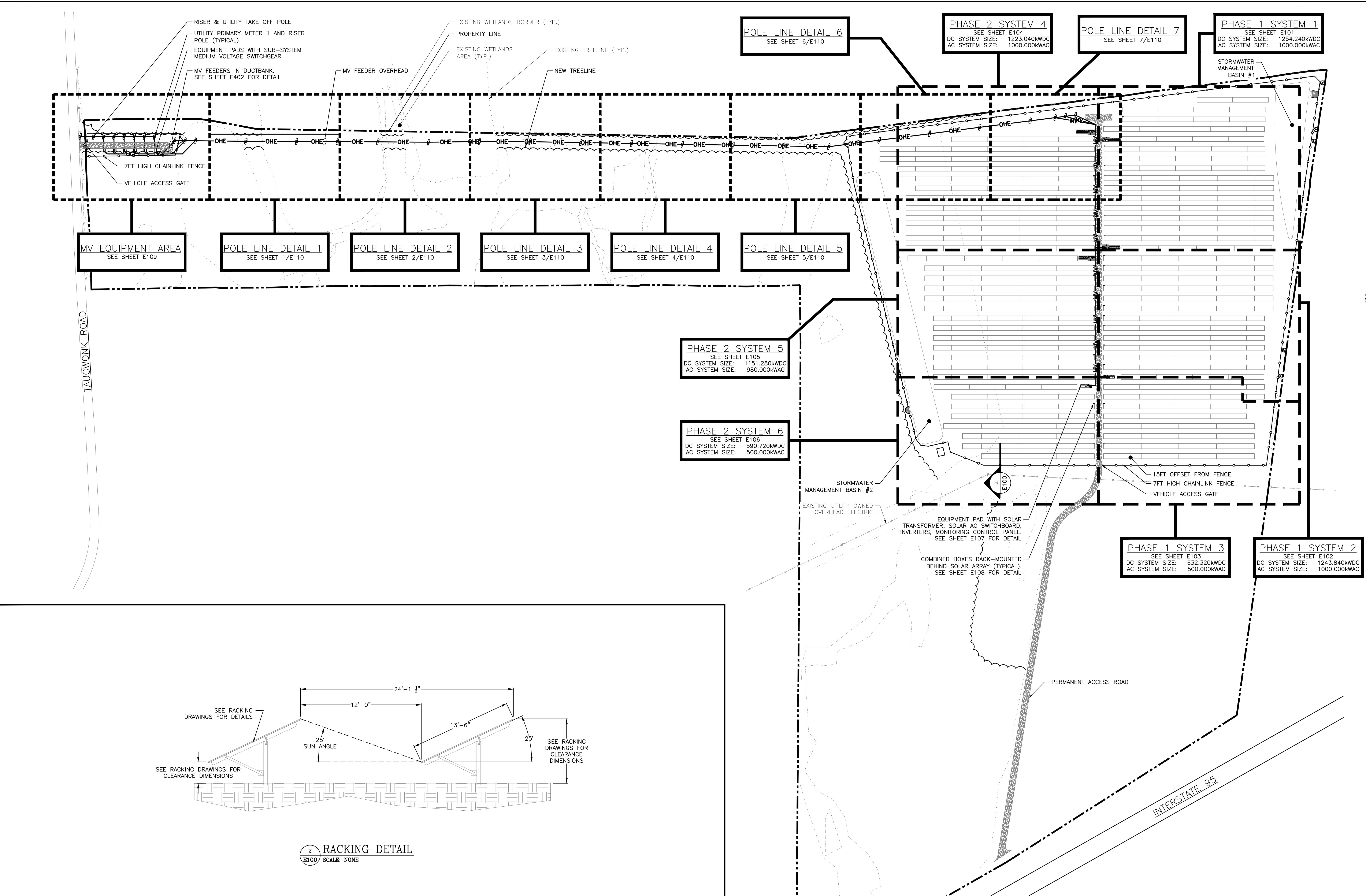
GREENSKIES  
180 JOHNSON STREET, MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM

DRAWING TITLE: TITLE SHEET  
DRAWING #: G001

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
PLOT DATE: 4/23/2020 6:17 PM



RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



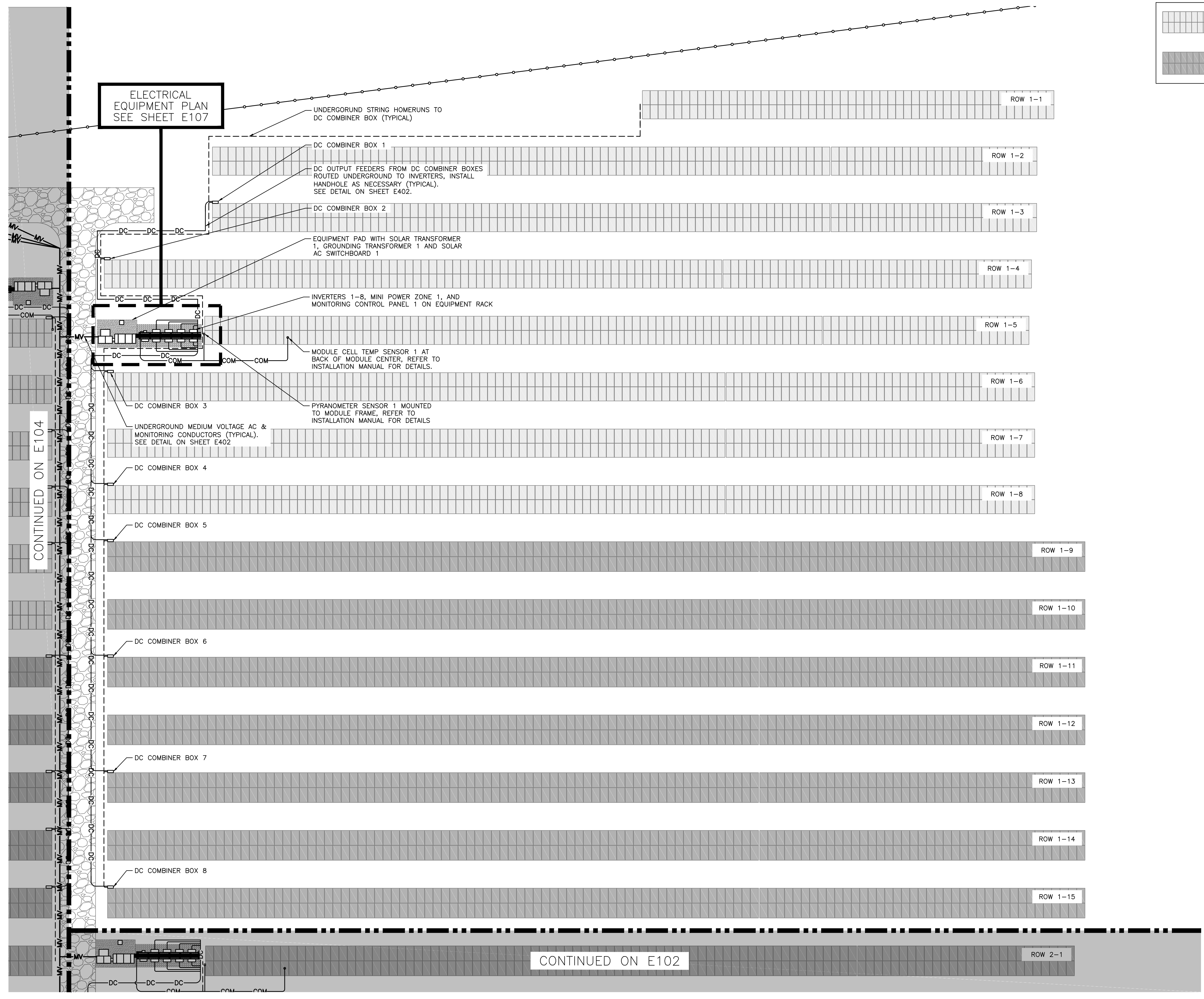
**1 AC ELECTRICAL PLAN**  
SCALE: 1" = 100'-0"

DRAWING TITLE: **OVERALL AC ELECTRICAL PLAN**  
DRAWING #: **E100**

<p><b>Greenskies</b> a Clean Focus company</p> <p>180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM</p>	<p>DATE: 04/03/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 2</p>	<p>DATE: 03/13/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 1</p>	<p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p>	<p>DATE: 01/30/2020</p> <p>REVISION DESCRIPTION: CONCEPTUAL DESIGN</p>
	<p>DATE: 04/03/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 2</p>	<p>DATE: 03/13/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 1</p>	<p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p>	<p>DATE: 01/30/2020</p> <p>REVISION DESCRIPTION: CONCEPTUAL DESIGN</p>
	<p>DATE: 04/03/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 2</p>	<p>DATE: 03/13/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 1</p>	<p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p>	<p>DATE: 01/30/2020</p> <p>REVISION DESCRIPTION: CONCEPTUAL DESIGN</p>
	<p>DATE: 04/03/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 2</p>	<p>DATE: 03/13/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 1</p>	<p>DATE: 02/19/2020</p> <p>REVISION DESCRIPTION: PERMIT SET</p>	<p>DATE: 01/30/2020</p> <p>REVISION DESCRIPTION: CONCEPTUAL DESIGN</p>
<p>PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378</p>	<p>DC SYSTEM SIZE: 6095.440 kW AC SYSTEM SIZE: 4980.000 kW MODULE TYPE: CANADIAN 360W/400W MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH</p>	<p>PAGE SIZE: 36" x 24"</p> <p>PROJECT #: PPE 00083</p>	<p>DEVELOPER: Greenskies</p>	<p>DATE: 04/03/2020</p> <p>REVISION DESCRIPTION: PERMIT SET - REV. 2</p>

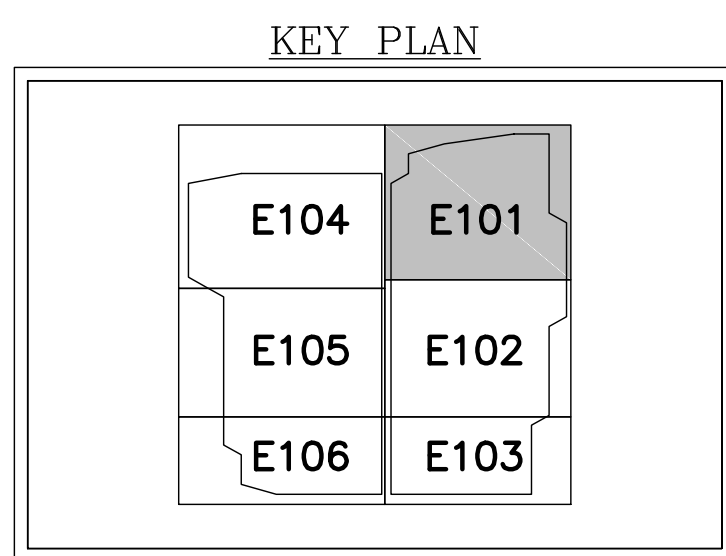
PLOT DATE: 4/23/2025 6:17 PM

RULER IN INCHES:



**MODULE LEGEND**

	CANADIAN SOLAR 360W
	CANADIAN SOLAR 400W



**1 PARTIAL ELECTRICAL PLAN - SYSTEM 1**  
SCALE: 1" = 20'-0"



DRAWING TITLE  
**PARTIAL ELECTRICAL PLAN - SYSTEM 1**

DRAWING #  
**E101**

REVISION DESCRIPTION

DATE	REVISION DESCRIPTION	PM	ENG	CHK
03/13/2020	PERMIT SET - REV. 1	BA	AD	RI
02/19/2020	PERMIT SET	BA	AD	RI

DATE: 03/13/2020

DATE: 02/19/2020

**PURE POWER**  
PURE POWER ENERGY SOLUTIONS, INC.  
5 MARINE VIEW PLAZA, HOBOKEN, NJ  
WWW.PUREPOWER.COM  
RICHARD A. TUNNEY  
CT LICENSE NO. 03829282

**GREENSKIES**  
180 JOHNSON STREET,  
MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM  
a Clean Focus company

DEVELOPER: GREENSKIES

PAGE SIZE: 36" x 24"

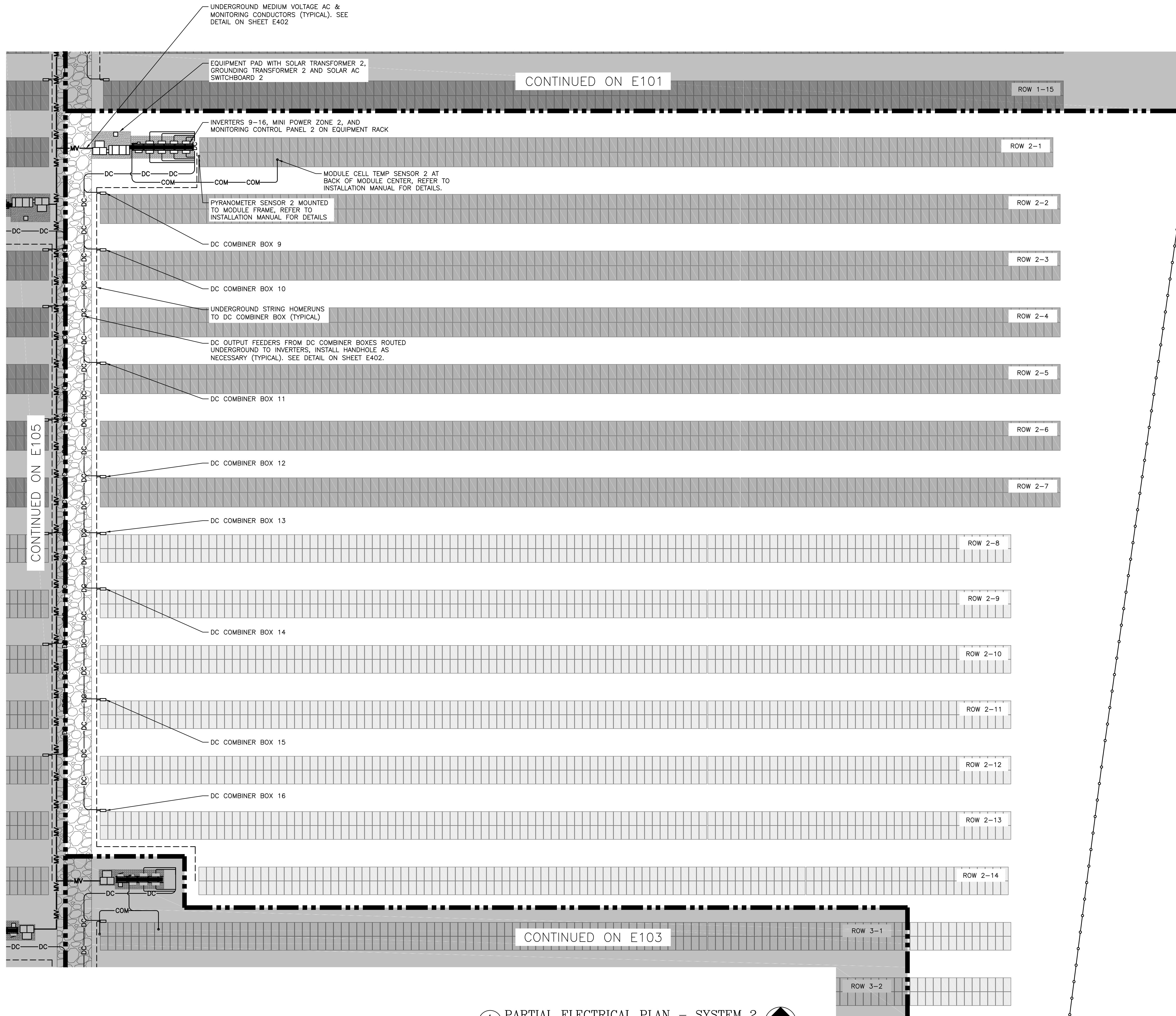
PROJECT #: PPE 00083

DC SYSTEM SIZE: 6095.440 kW  
AC SYSTEM SIZE: 4980.000 kW  
MODULE TYPE: CANADIAN 360W/400W  
MODULE QUANTITY: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK  
35 TAUGWONK SPUR ROAD  
STONINGTON, CT 06378



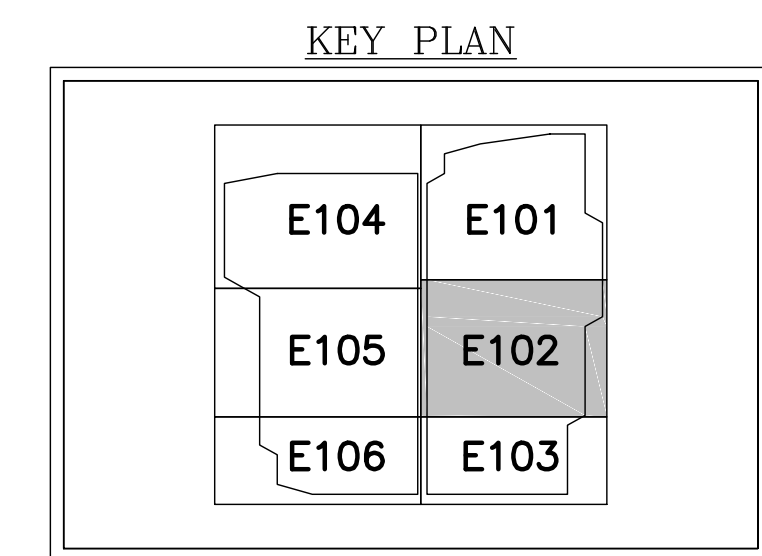
RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 PLOT DATE: 4/23/2025 6:17 PM



MODULE LEGEND

	CANADIAN SOLAR 360W
	CANADIAN SOLAR 400W

CONTINUED ON E105



**1** PARTIAL ELECTRICAL PLAN - SYSTEM 2  
 E102 SCALE: 1" = 20'-0"

DATE	03/13/2020	REVISION DESCRIPTION	PM LENG CHK	
DATE	02/19/2020	PERMIT SET - REV. 1	BX AD RI	
		PERMIT SET	BX AD RI	

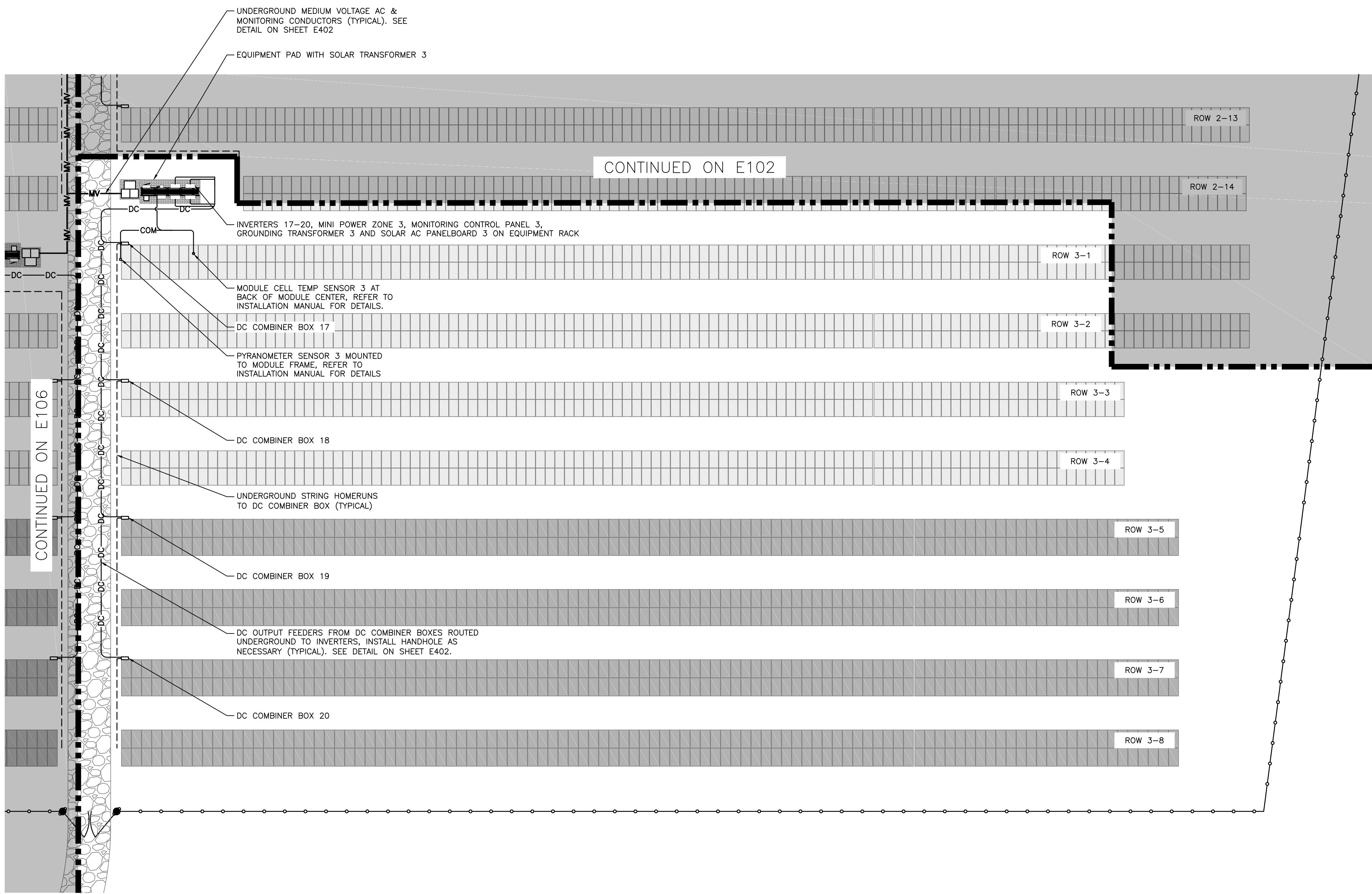
5 MARINE VIEW PLAZA, HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. TONIN  
 CT LICENSE NO. 03629262

GREENSKIES  
 180 JOHNSON STREET,  
 MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 a Clean Focus company

PROJECT	6095.440 KW STONINGTON TAUGWONK	DEVELOPER	GREENSKIES	PAGE SIZE	3.6" x 24"
DC SYSTEM SIZE:	4980.000 KW	AC SYSTEM SIZE:	CANADIAN 360W/400W	PROJECT #	00083
MODULE TYPE:	8294/7774	MODULE QUANTITY:	25' TILT, 0° AZIMUTH	PPE	00083

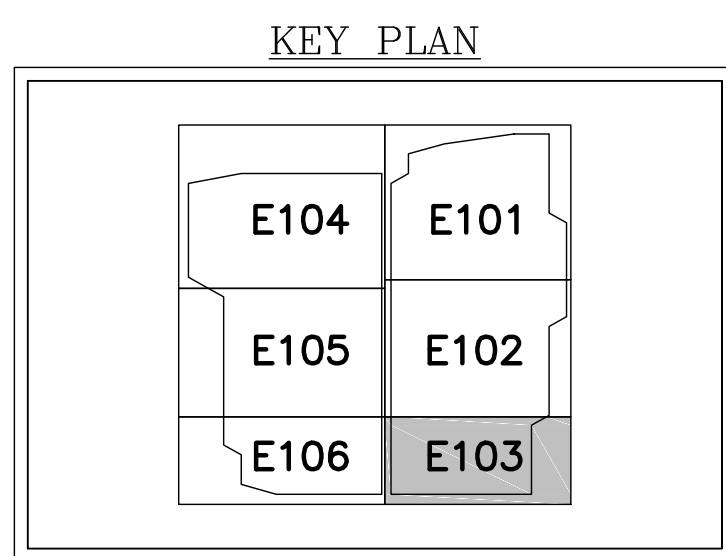
DRAWING TITLE  
 PARTIAL ELECTRICAL PLAN - SYSTEM 2  
 DRAWING #  
 E102

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



MODULE LEGEND

	CANADIAN SOLAR 360W
	CANADIAN SOLAR 400W



1 PARTIAL ELECTRICAL PLAN - SYSTEM 3  
 E103 SCALE: 1" = 20'-0"



DRAWING TITLE  
 PARTIAL ELECTRICAL PLAN - SYSTEM 3

DRAWING #  
 E103

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK, 35 TAUGWONK SPUR ROAD, STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH

PAGE SIZE: 36" x 24"  
 PROJECT #: PPE 00083

DEVELOPER: Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM

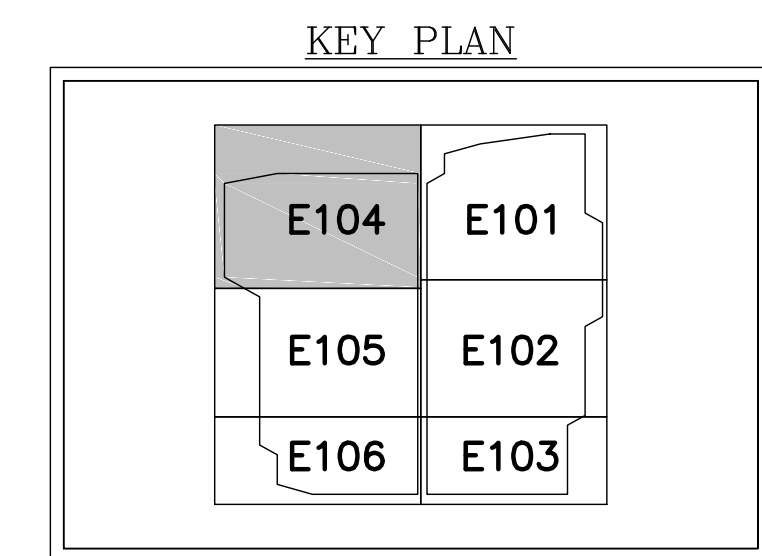
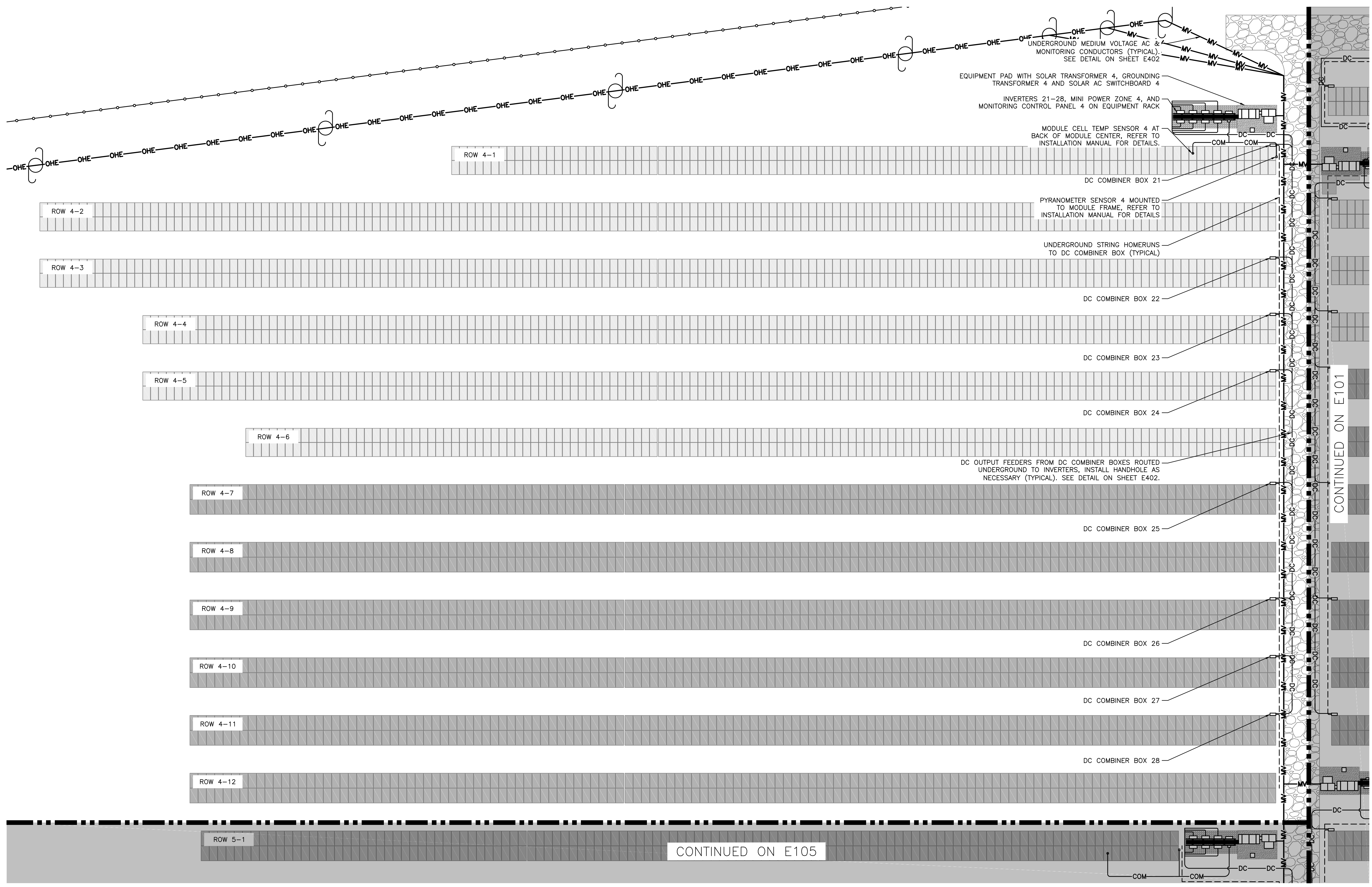
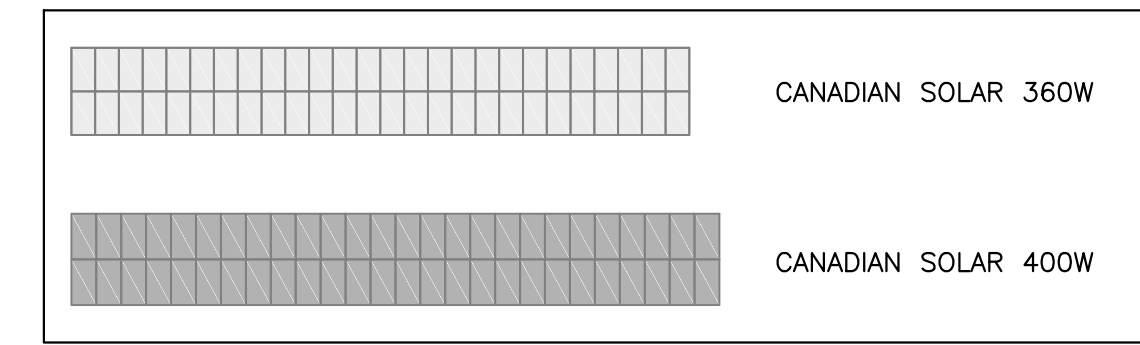
PURE POWER  
 5 MARINE VIEW PLAZA, HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. VONN  
 CT LICENSE NO. 0382982

DATE: 03/13/2020  
 REVISION DESCRIPTION: PERMIT SET - REV. 1  
 DATE: 02/19/2020  
 REVISION DESCRIPTION: PERMIT SET

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 4/23/2025 6:17 PM

MODULE LEGEND



1 PARTIAL ELECTRICAL PLAN - SYSTEM 4  
E104 SCALE: 1" = 20'-0"



DRAWING TITLE  
PARTIAL ELECTRICAL PLAN - SYSTEM 4

DRAWING #  
E104

REVISION DESCRIPTION DATE DATE

REVISION DESCRIPTION DATE DATE

DATE 03/13/2020 PERMIT SET - REV. 1 BX AD RI

DATE 02/19/2020 PERMIT SET BX AD RI

PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 4980.000 KW  
AC SYSTEM SIZE: CANADIAN 360W/400W  
MODULE TYPE: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

DEVELOPER GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM

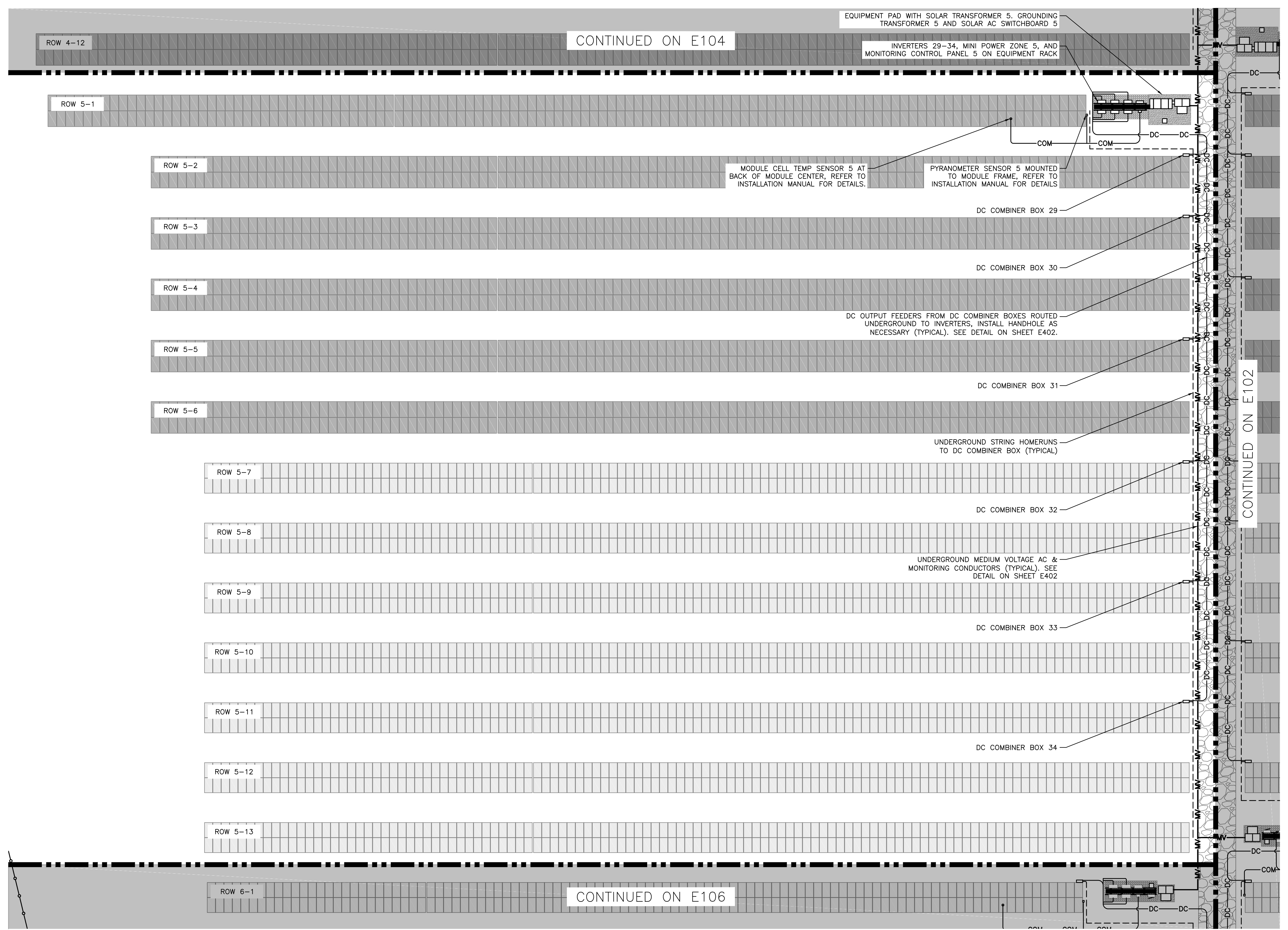
GREENSKIES a Clean Focus company

PAGE SIZE 36" x 24"  
PROJECT # PPE 00083

PURE POWER ENERGY SOLUTIONS 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. TONINELLI CT LICENSE NO. 03029262

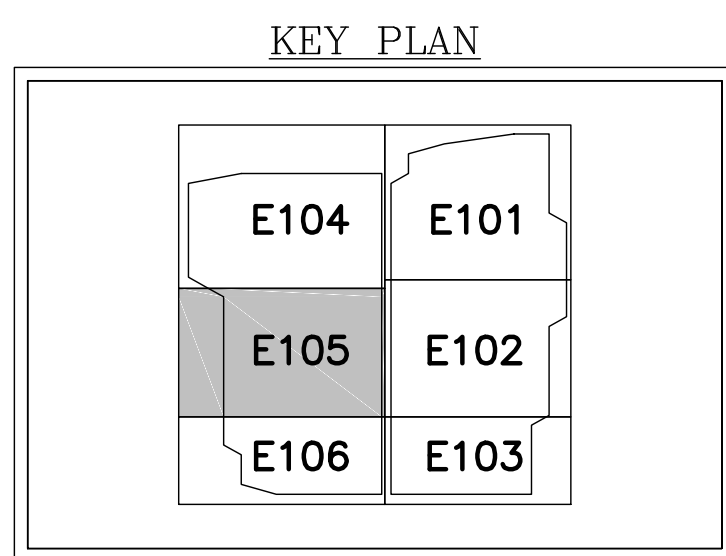
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PLOT DATE: 4/23/2025 6:18 PM



MODULE LEGEND

	CANADIAN SOLAR 360W
	CANADIAN SOLAR 400W



1 PARTIAL ELECTRICAL PLAN - SYSTEM 5  
 E105 SCALE: 1" = 20'-0"



DRAWING TITLE  
 PARTIAL ELECTRICAL PLAN - SYSTEM 5

DRAWING #  
 E105

REVISION DESCRIPTION DATE DATE


PERMIT SET - REV. 1 03/13/2020  
 PERMIT SET 02/19/2020

DEVELOPER  
**Greenskies**  
 a Clean Focus company  
 180 JOHNSON STREET,  
 MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM

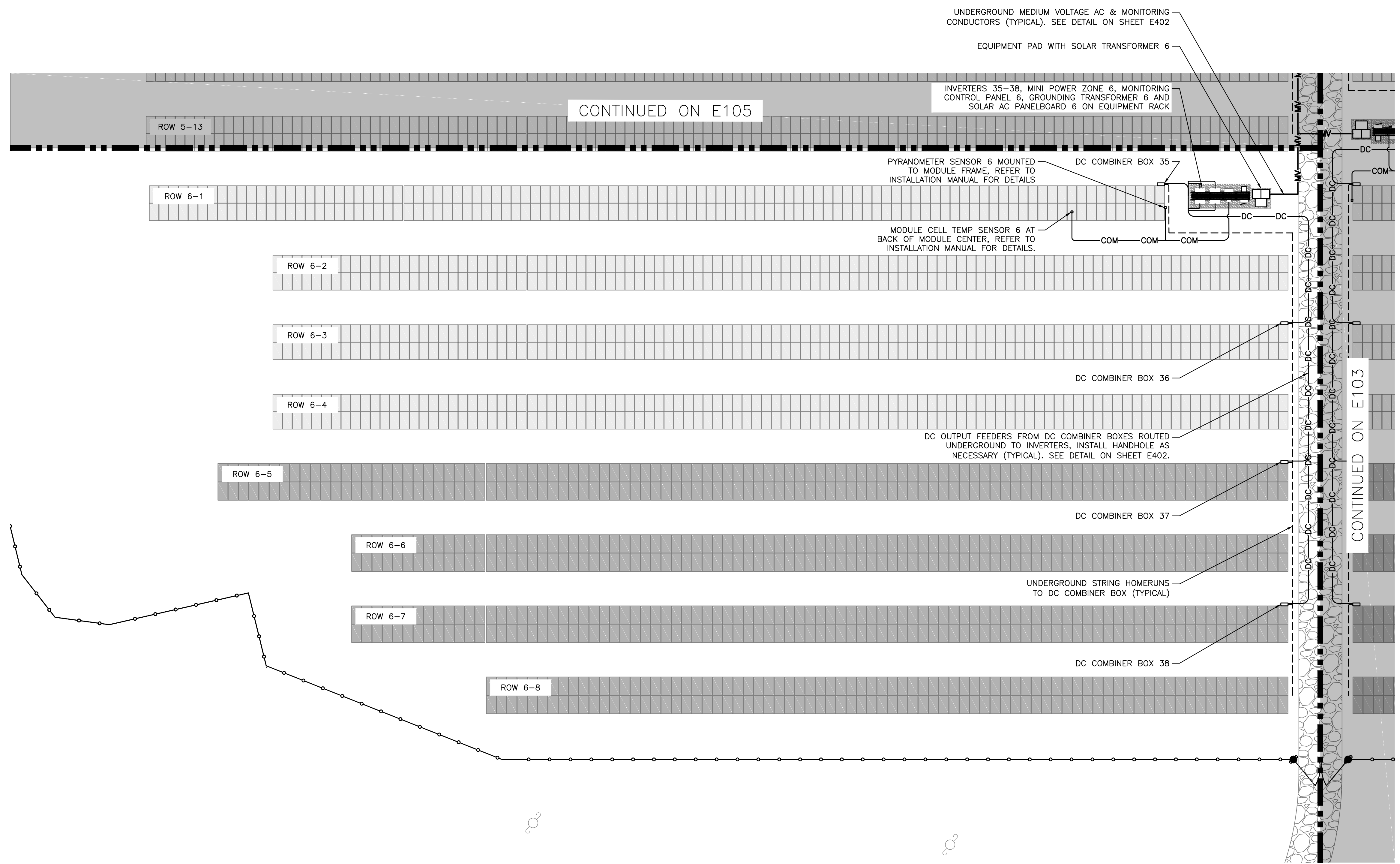
PROJECT  
 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378

PAGE SIZE 3.6" x 24"  
 PROJECT # PPE 00083

DC SYSTEM SIZE: 6095.440 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH

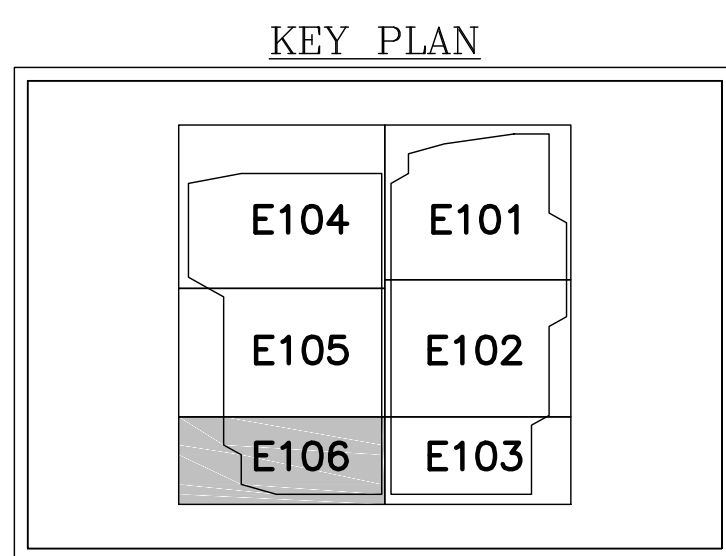
PURE POWER ENERGY SOLUTIONS  
 5 MARINE VIEW PLAZA - HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. TONIN  
 CT LICENSE NO. 0382982

PLOT DATE: 4/23/2020 6:18 PM  
 RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



MODULE LEGEND

	CANADIAN SOLAR 360W
	CANADIAN SOLAR 400W



1 PARTIAL ELECTRICAL PLAN - SYSTEM 6  
 E106 SCALE: 1" = 20'-0"

DATE: 03/13/2020  
 REVISION DESCRIPTION: PERMIT SET - REV. 1  
 DATE: 02/19/2020  
 REVISION DESCRIPTION: PERMIT SET

PURE POWER  
 5 MARINE VIEW PLAZA - HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. TONIN  
 CT LICENSE NO. 00829282

GREENSKIES  
 180 JOHNSON STREET,  
 MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 a Clean Focus company

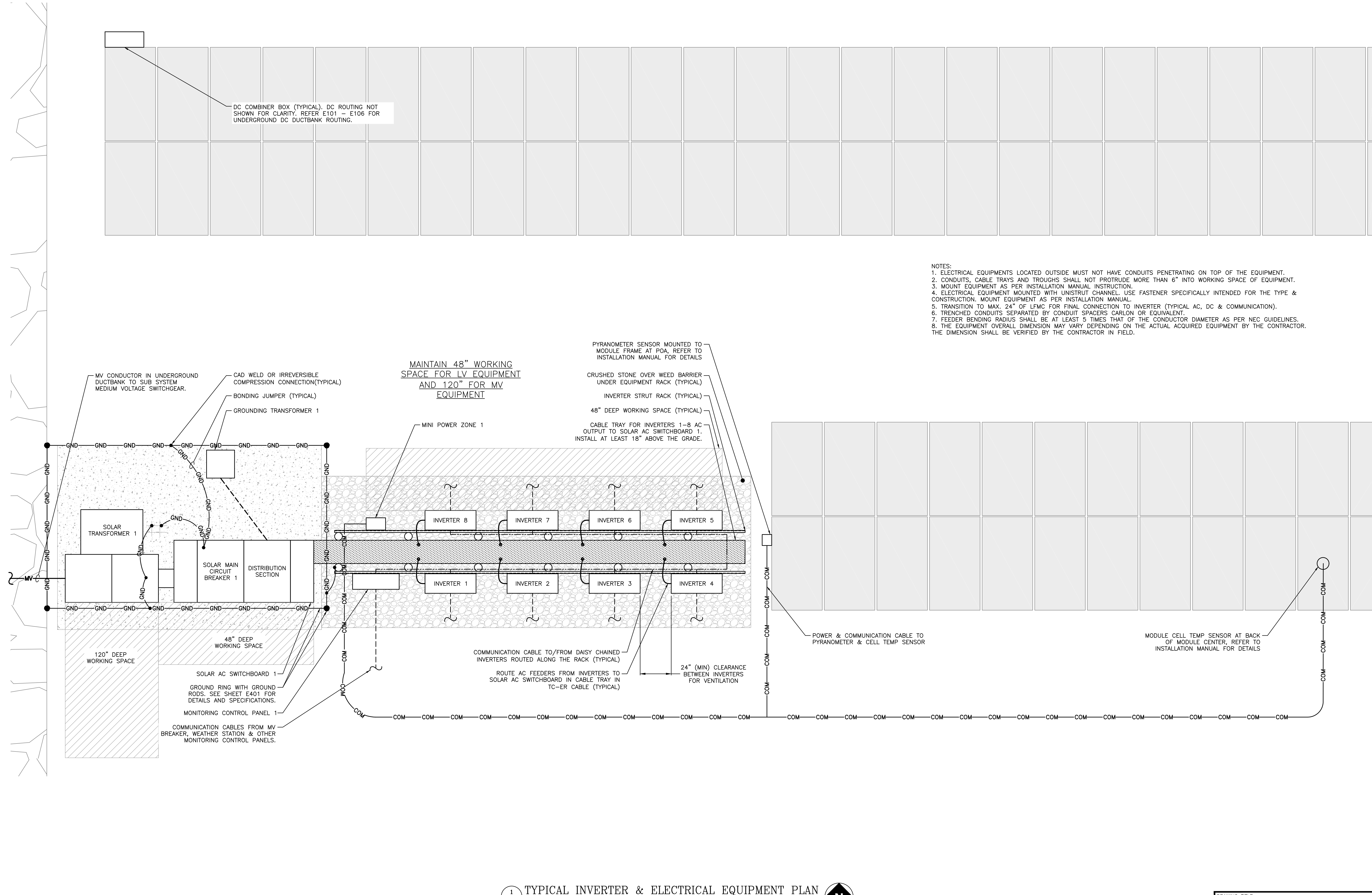
DEVELOPER: GREENSKIES

PAGE SIZE: 36" x 24"  
 PROJECT #: PPE 00083

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH

DRAWING TITLE: PARTIAL ELECTRICAL PLAN - SYSTEM 6  
 DRAWING #: E106

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



**1 TYPICAL INVERTER & ELECTRICAL EQUIPMENT PLAN**  
 E107 SCALE: 3/8" = 1'-0"

**PROJECT:** 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378

**DC SYSTEM SIZE:** 6095.440 KW  
**AC SYSTEM SIZE:** 4980.000 KW  
**MODULE TYPE:** CANADIAN 360W/400W  
**MODULE QUANTITY:** 8294/7774  
**ORIENTATION:** 25° TILT, 0° AZIMUTH

**DEVELOPER:** Greenskies  
 a Clean Focus company  
 180 JOHNSON STREET,  
 MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM

**PAGE SIZE:** 36" x 24"  
**PROJECT #:** 00083  
**PPE:** 00083

**DATE:** 03/13/2020  
**DATE:** 02/19/2020

**REVISION DESCRIPTION:** PERMIT SET - REV. 1  
 PERMIT SET

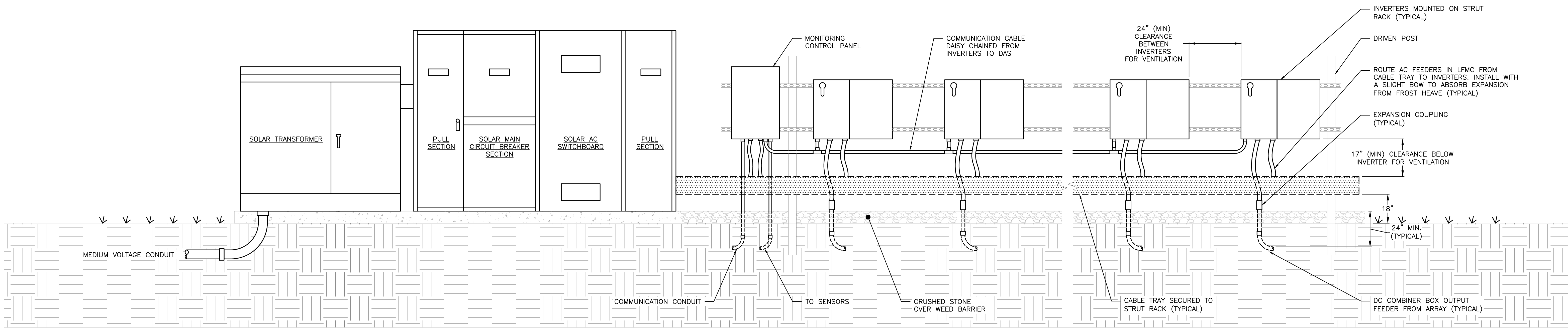
**DATE:** 03/13/2020  
**DATE:** 02/19/2020

**REVISION DESCRIPTION:** PERMIT SET  
 PERMIT SET

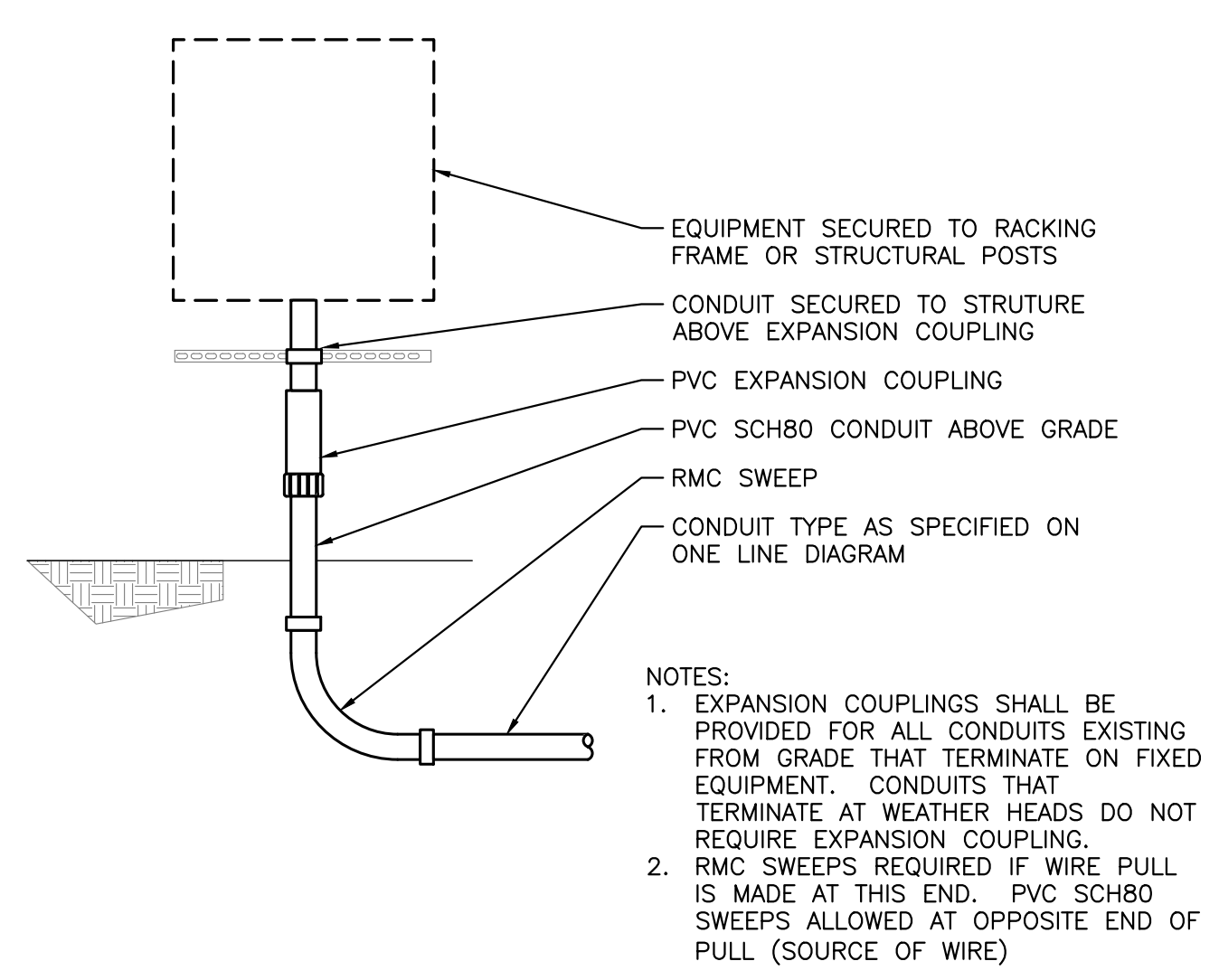
**DATE:** 03/13/2020  
**DATE:** 02/19/2020

**REVISION DESCRIPTION:** PERMIT SET  
 PERMIT SET

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

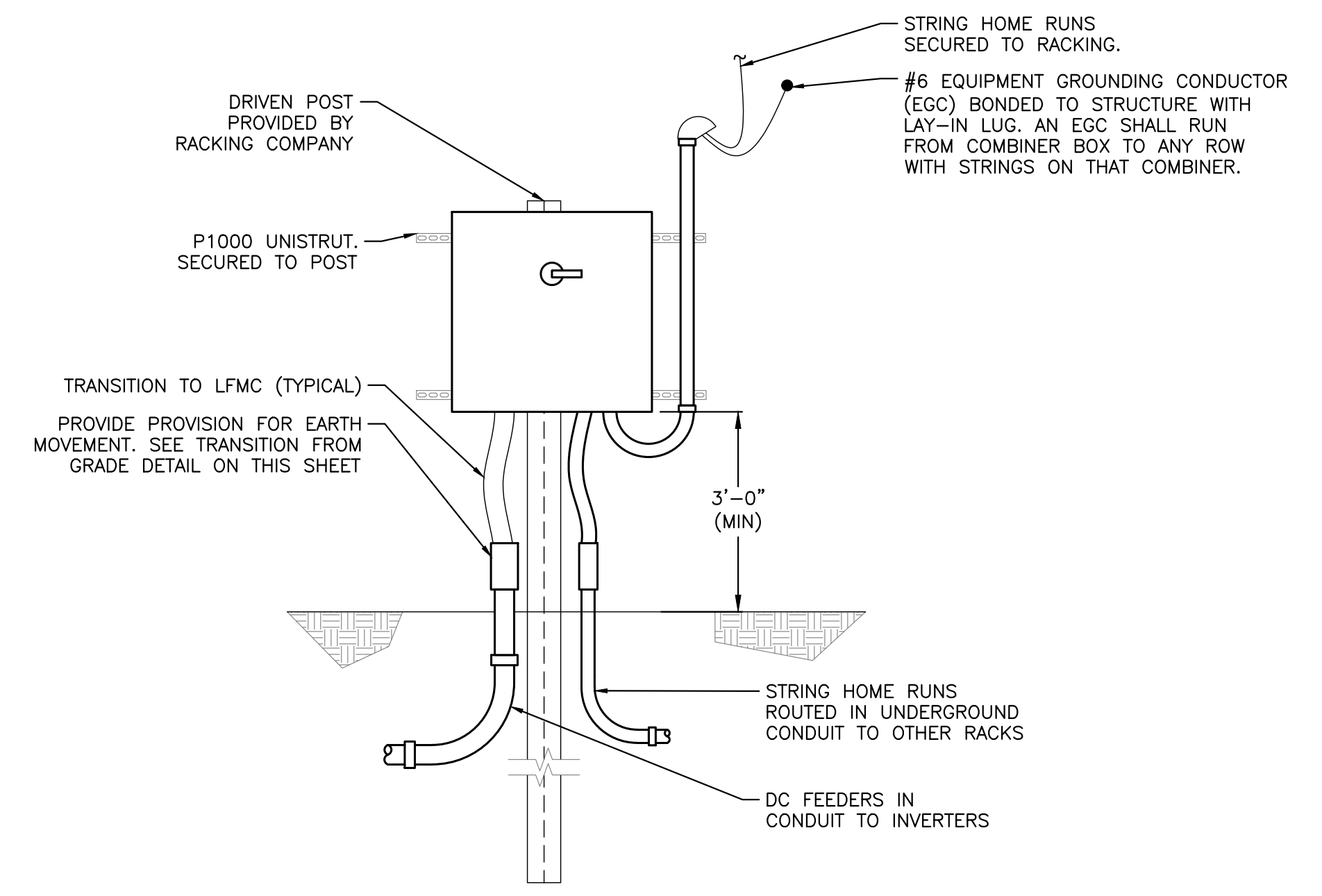


1 TYPICAL ELECTRICAL EQUIPMENT AREA ELEVATION  
E108 SCALE: 1/2" = 1'-0"



- NOTES:
- EXPANSION COUPLINGS SHALL BE PROVIDED FOR ALL CONDUITS EXISTING FROM GRADE THAT TERMINATE ON FIXED EQUIPMENT. CONDUITS THAT TERMINATE AT WEATHER HEADS DO NOT REQUIRE EXPANSION COUPLING.
  - RMC SWEEPS REQUIRED IF WIRE PULL IS MADE AT THIS END. PVC SCH80 SWEEPS ALLOWED AT OPPOSITE END OF PULL (SOURCE OF WIRE)

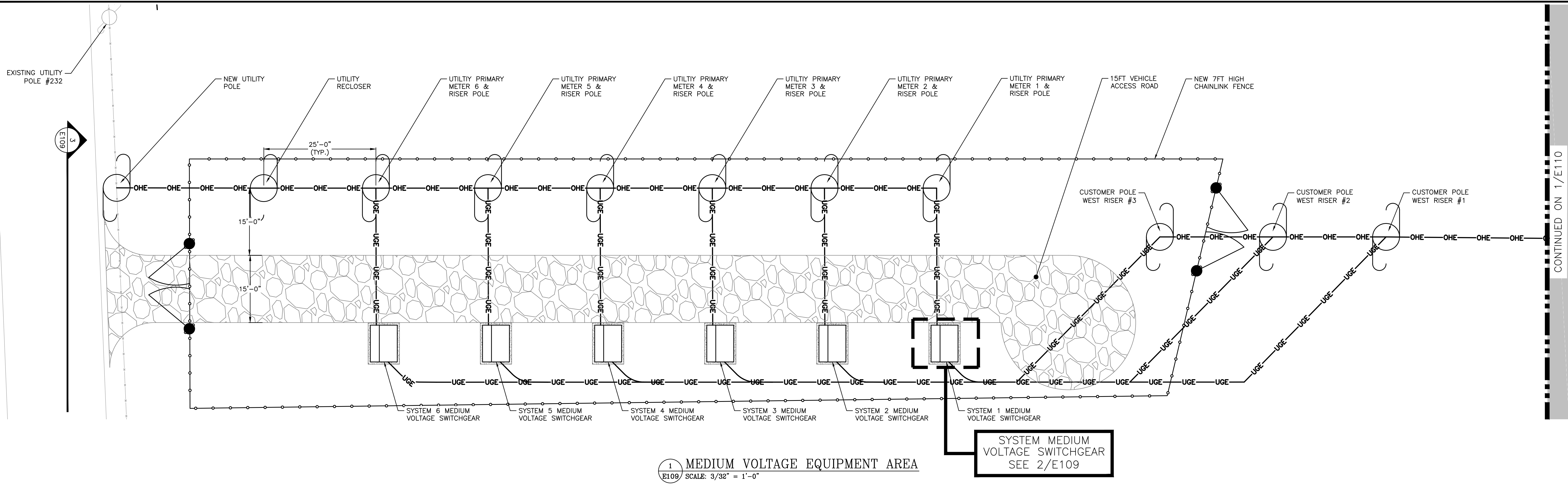
2 TYPICAL CONDUIT TRANSITION ABOVE GRADE  
E108 SCALE: 1/2" = 1'-0"



3 TYPICAL COMBINER BOX ELEVATION - FRONT VIEW  
E108 SCALE: 1/2" = 1'-0"

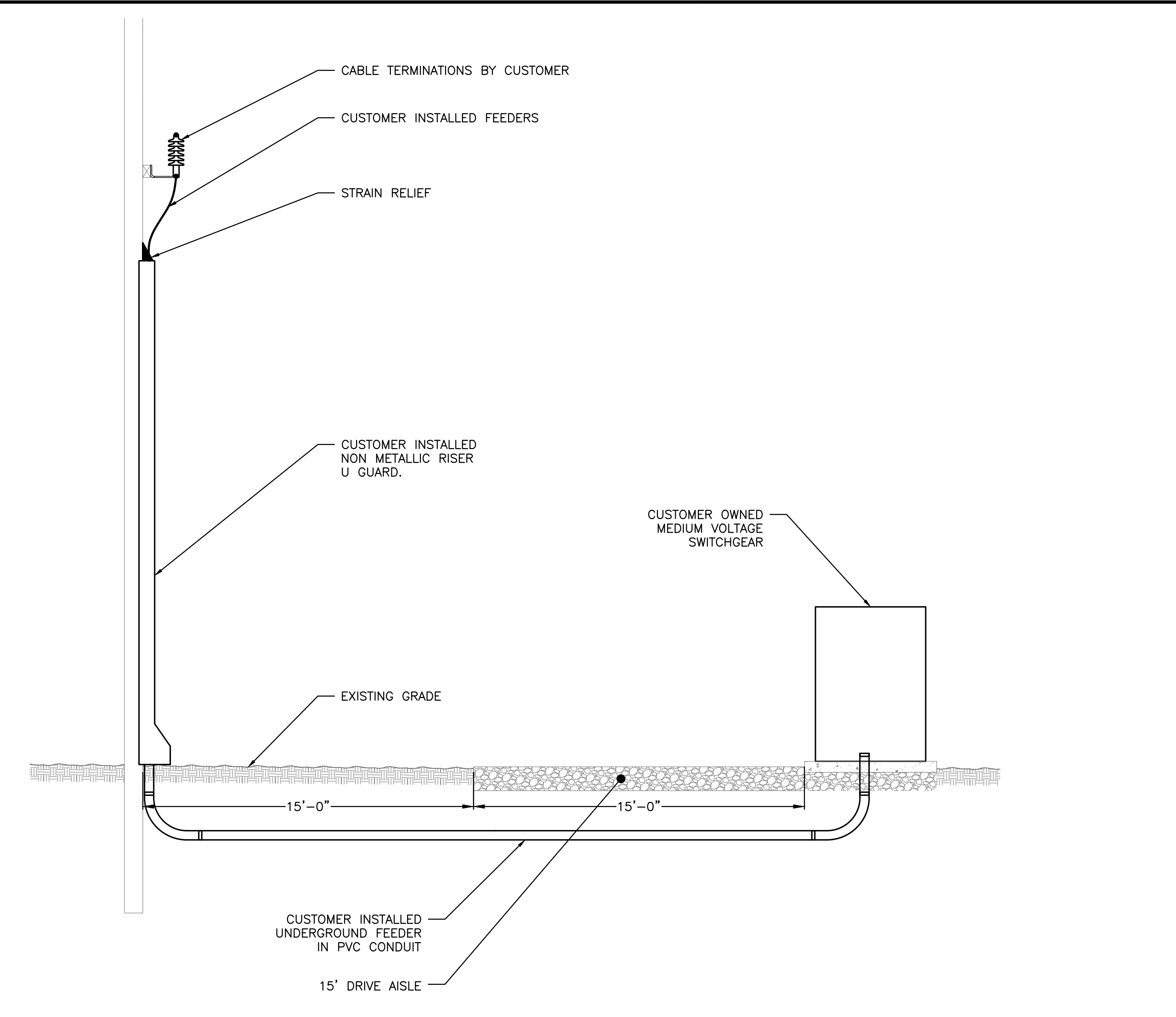
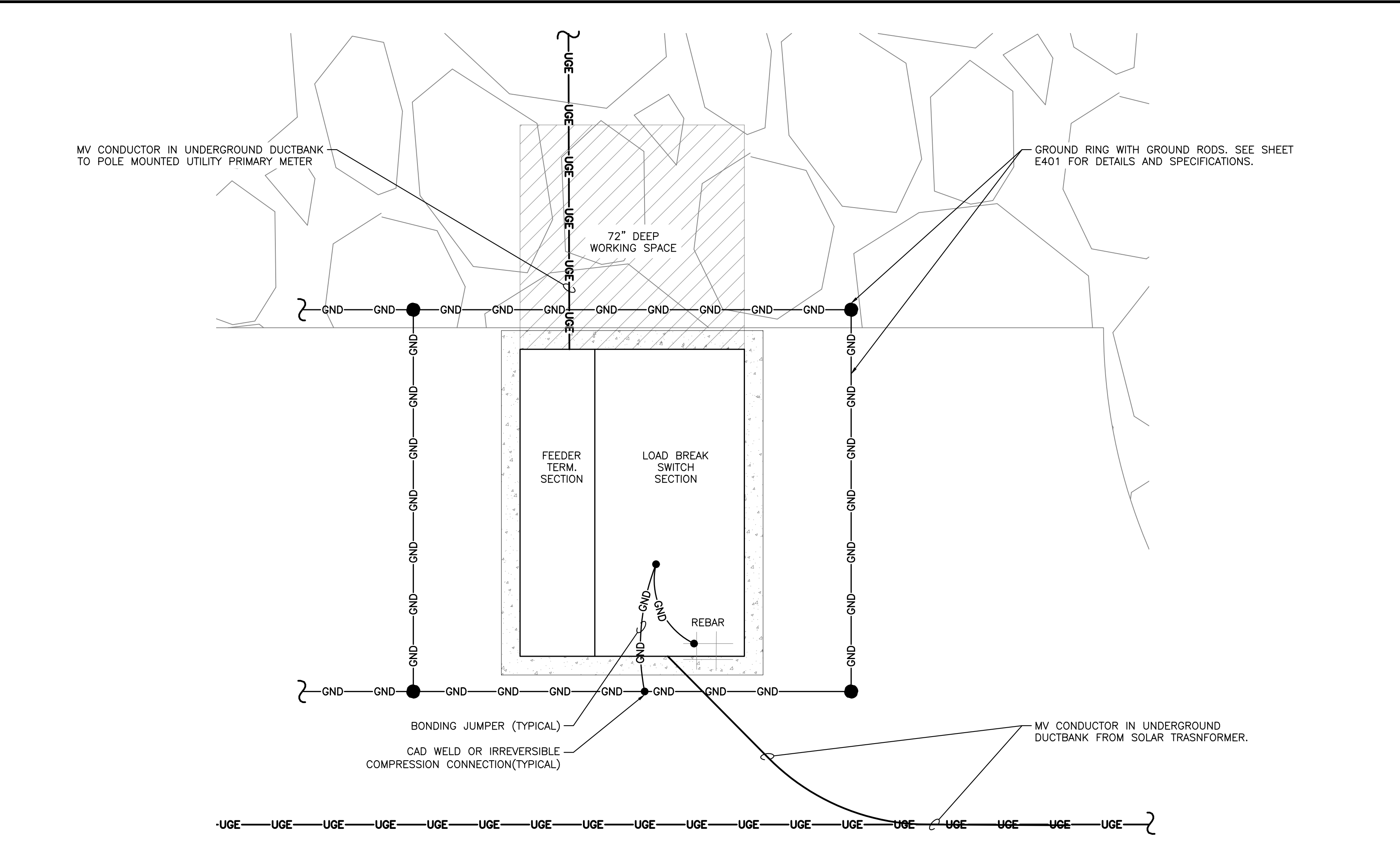
PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW CANADIAN 360W/400W MODULE TYPE: B294/7774 MODULE QUANTITY: 25' TILT, 0° AZIMUTH ORIENTATION:  
 DEVELOPER: Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM  
 PURE POWER ENERGY SOLUTIONS  
 5 MARINE VIEW PLAZA - HOBOKEN, NJ RICHARD A. VONDERHEID CT LICENSE NO. 03629262  
 DATE: 03/13/2020 PERMIT SET - REV. 1 PERMIT SET - 02/19/2020  
 REVISION DESCRIPTION: PM TENG CHK  
 DATE: 03/13/2020  
 PERMIT SET - REV. 1  
 PERMIT SET  
 BX AD RI  
 BX AD RI  
 BX AD RI

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



CONTINUED ON 1/E110

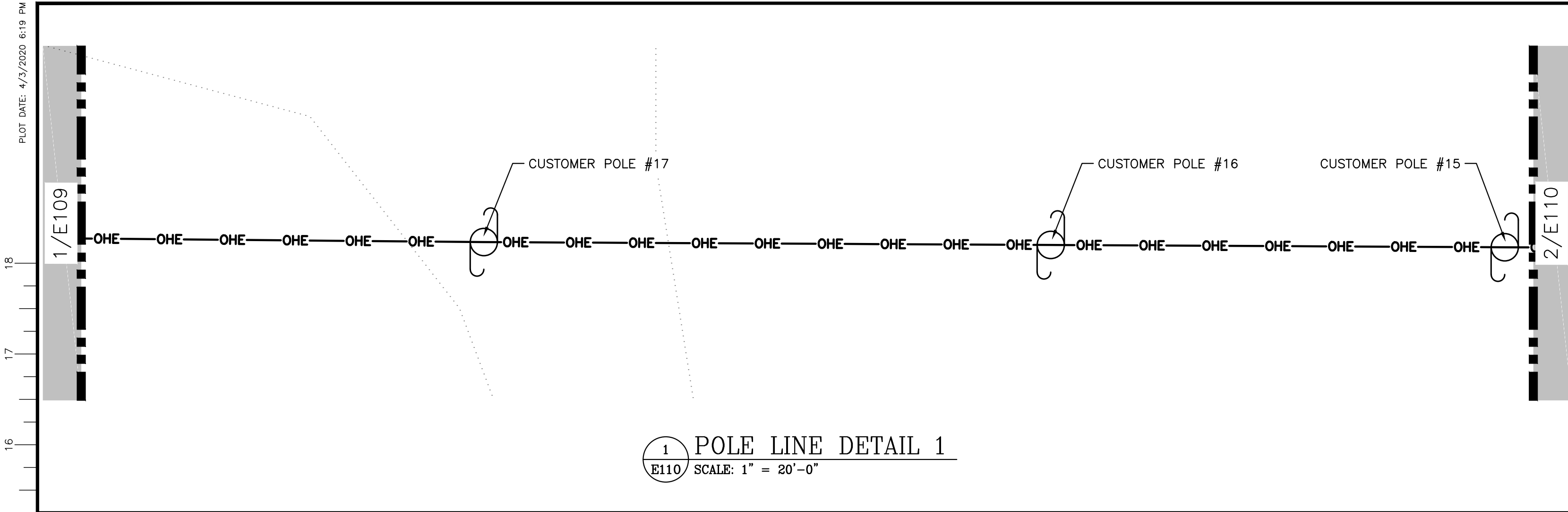
 GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM	DATE: 04/03/2020 PERMIT SET - REV. 2	REVISION DESCRIPTION: PERMIT SET - REV. 2 DATE: 03/13/2020 PERMIT SET - REV. 1	PM ENG CHK BX AD RI
	DATE: 03/13/2020 PERMIT SET - REV. 1	REVISION DESCRIPTION: PROPOSED MV EQUIPMENT DATE: 02/19/2020 PERMIT SET	PM ENG CHK BX AD RI
DEVELOPER: GREENSKIES a Clean Focus company	PAGE SIZE: 3.6" x 24" PROJECT #: PPE 00083	DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW CANADIAN 360W/400V MODULE TYPE: 8294/7774 MODULE QUANTITY: 25 TILT, °: AZIMUTH	PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
DRAWING TITLE: MEDIUM VOLTAGE EQUIPMENT PLAN	DRAWING #: E109		



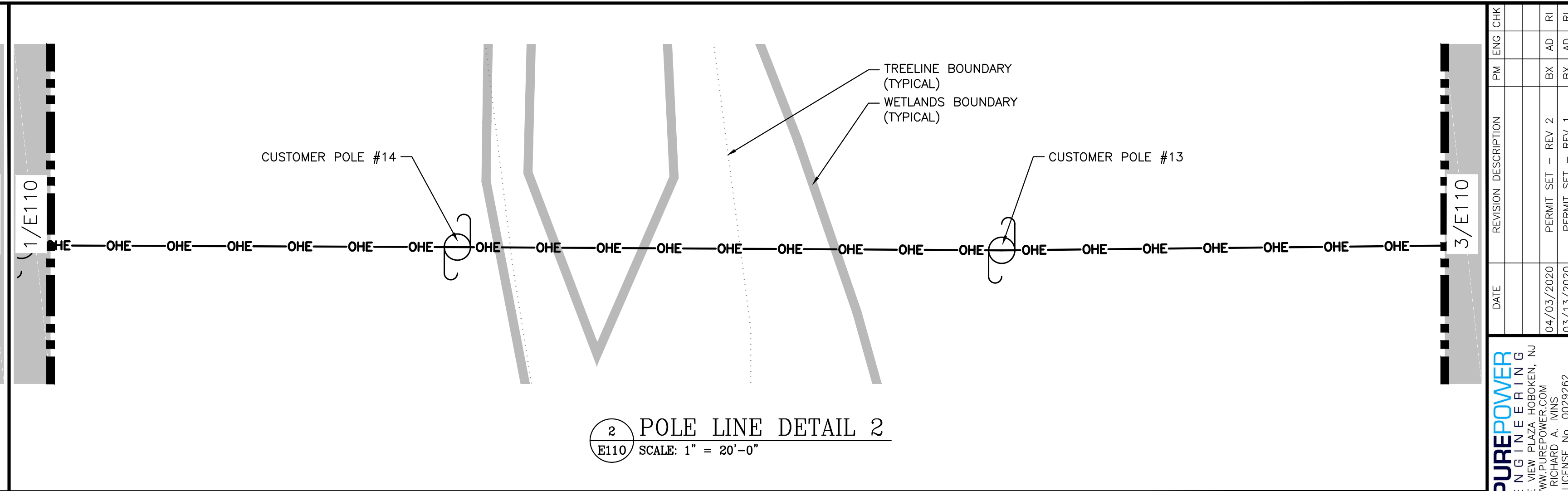
DRAWING TITLE: MEDIUM VOLTAGE EQUIPMENT PLAN	DRAWING #: E109
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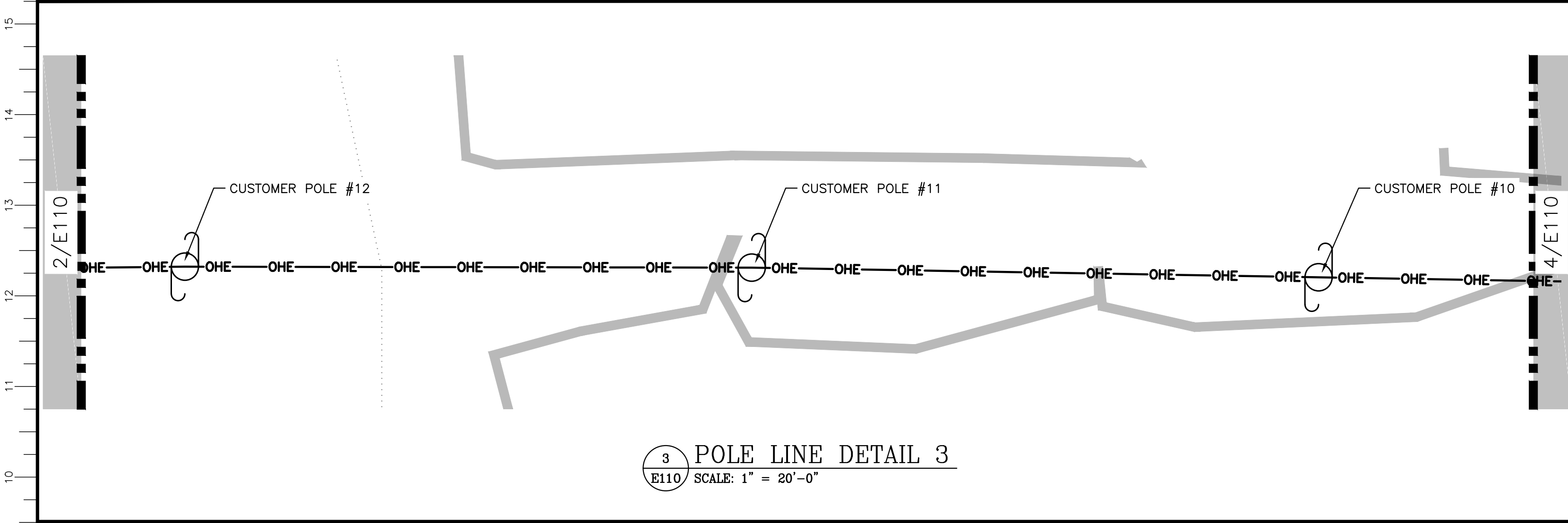
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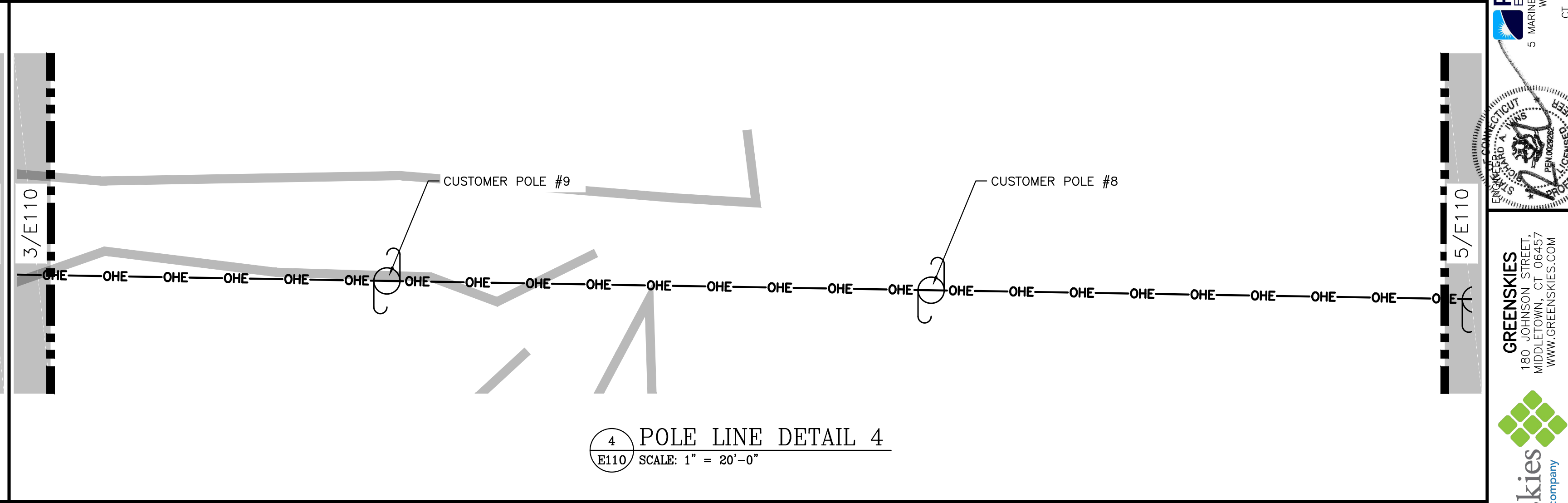
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E110 SCALE: 1" = 20'-0"



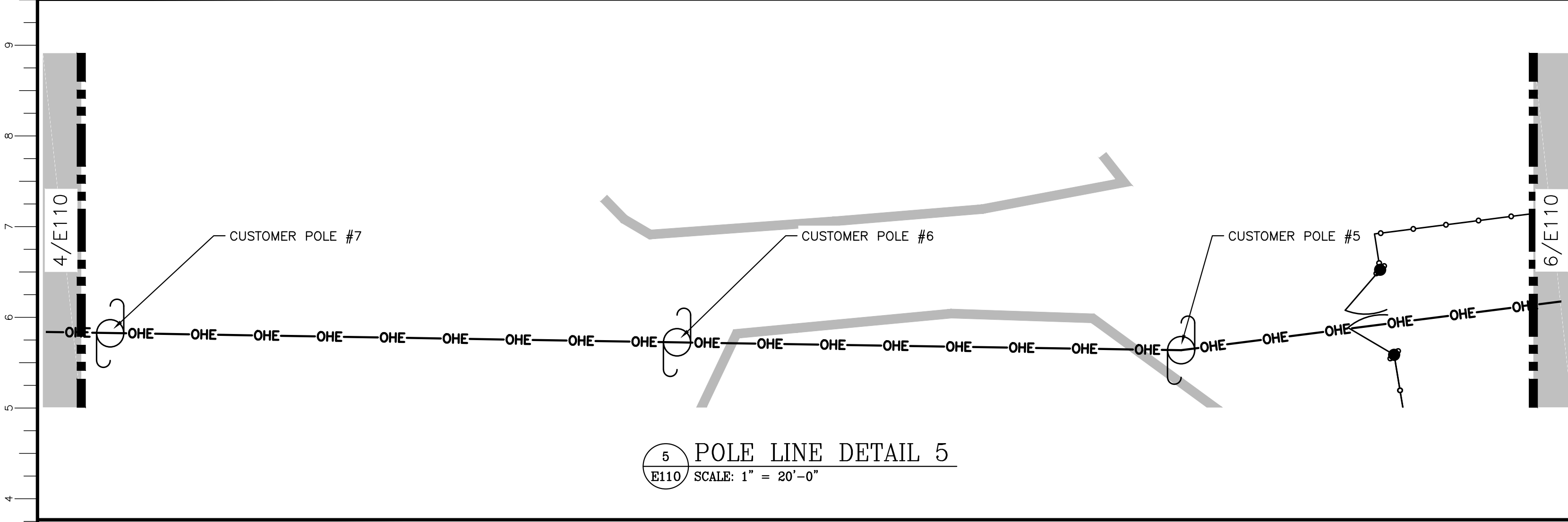
2 POLE LINE DETAIL 2  
E110 SCALE: 1" = 20'-0"



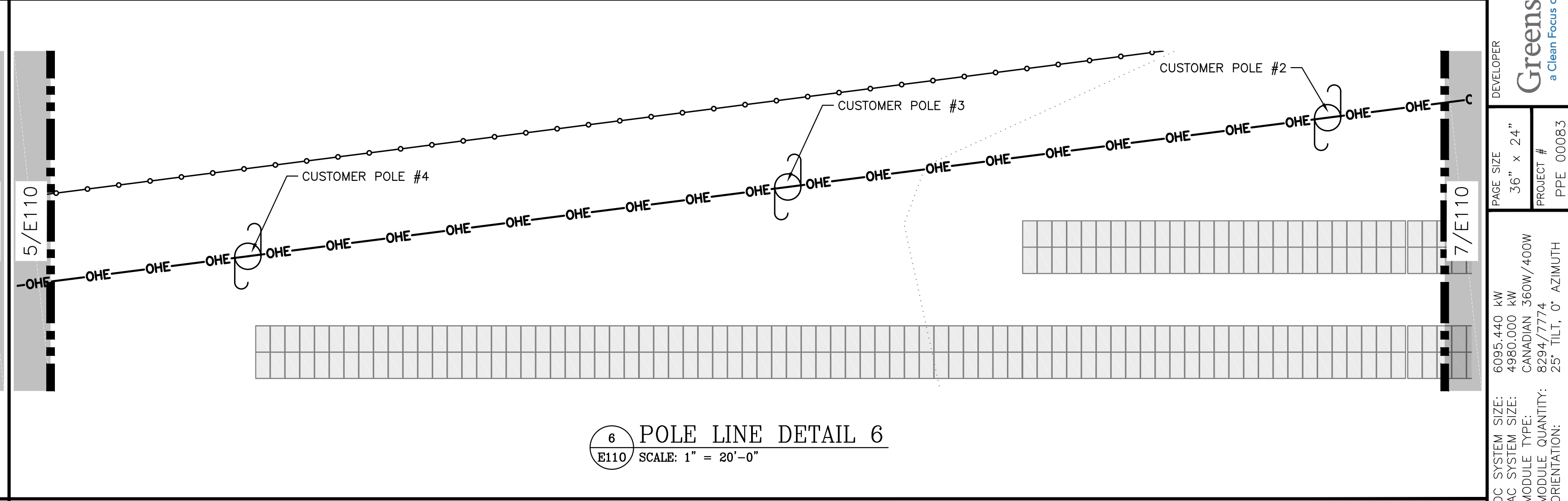
3 POLE LINE DETAIL 3  
E110 SCALE: 1" = 20'-0"



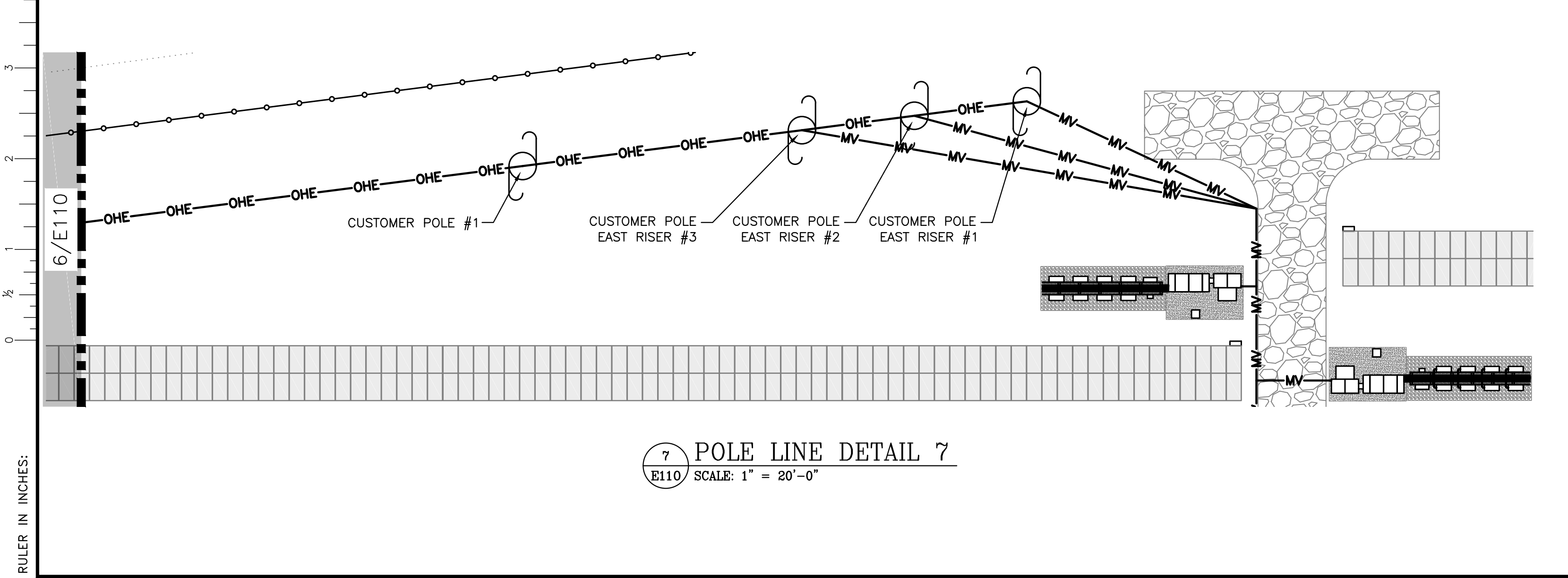
4 POLE LINE DETAIL 4  
E110 SCALE: 1" = 20'-0"



5 POLE LINE DETAIL 5  
E110 SCALE: 1" = 20'-0"



6 POLE LINE DETAIL 6  
E110 SCALE: 1" = 20'-0"



7 POLE LINE DETAIL 7  
E110 SCALE: 1" = 20'-0"

DATE	REVISION DESCRIPTION	PM	LENG	CHK
04/03/2020	PERMIT SET - REV 2	BK	AD	RI
03/13/2020	PERMIT SET - REV 1	BK	AD	RI

**PURE POWER**  
5 MARINE VIEW PLAZA, HOBOKEN, NJ  
WWW.PUREPOWER.COM  
RICHARD A. TONIN  
CT LICENSE NO. 0382982

**GREENSKIES**  
180 JOHNSON STREET,  
MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM  
a Clean Focus company

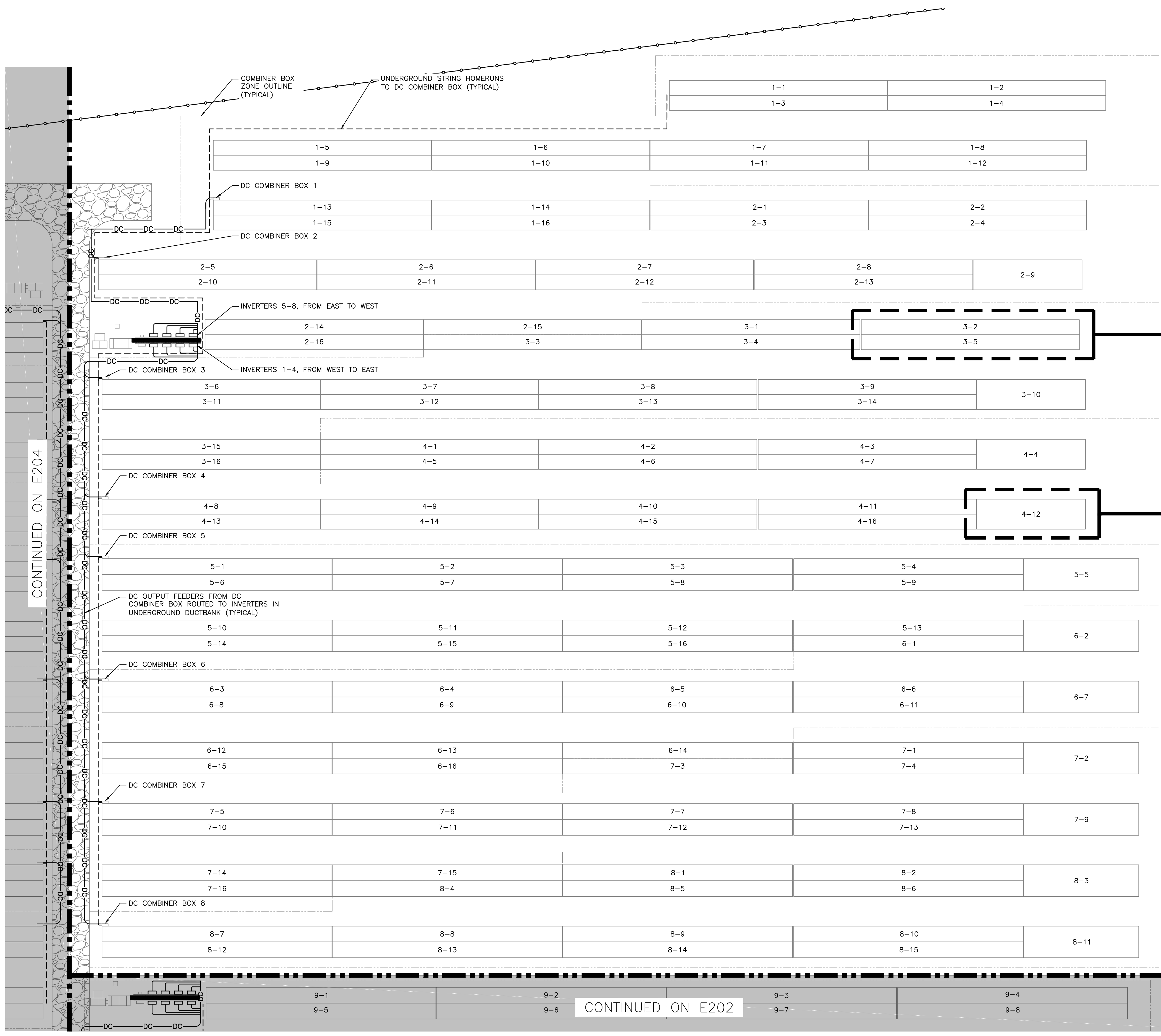
DEVELOPER  
PROJECT #  
PPE 00083

PAGE SIZE  
3.6" x 24"

DC SYSTEM SIZE: 6095.440 KW  
AC SYSTEM SIZE: 4980.000 KW  
MODULE TYPE: CANADIAN 360W/400W  
MODULE QUANTITY: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT  
6095.440 KW GROUND MOUNT SYSTEM AT  
STONINGTON TAUGWONK  
35 TAUGWONK SPUR ROAD  
STONINGTON, CT 06378

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



CONTINUED ON E204

CONTINUED ON E202

CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENGTH OVER 24" (40% FILL)
3/4"	5	3
1"	9	6
1.25"	16	10
1.5"	22	14
2"	37	24
2.5"	40	35
3"	40	40
3.5"	40	40
4"	40	40

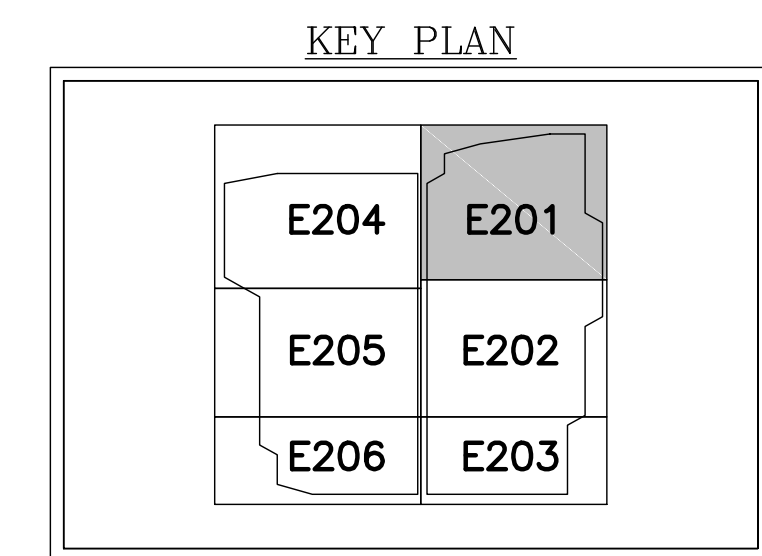
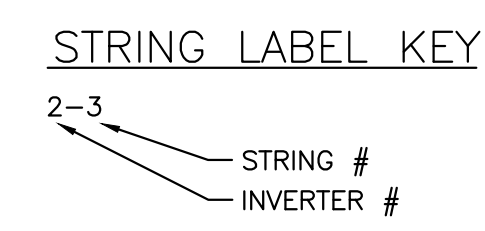
TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE  
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

FULL ROW INTERMODULE WIRING  
DETAIL SEE 1/E206

HALF ROW INTERMODULE WIRING  
DETAIL SEE 2/E206

**IMPORTANT**  
CONTRACTOR MUST REDLINE  
DRAWINGS TO REFLECT EXACT  
AS-BUILT STRINGING AND RETURN  
TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 1  
E200 SCALE: 1" = 20'-0"

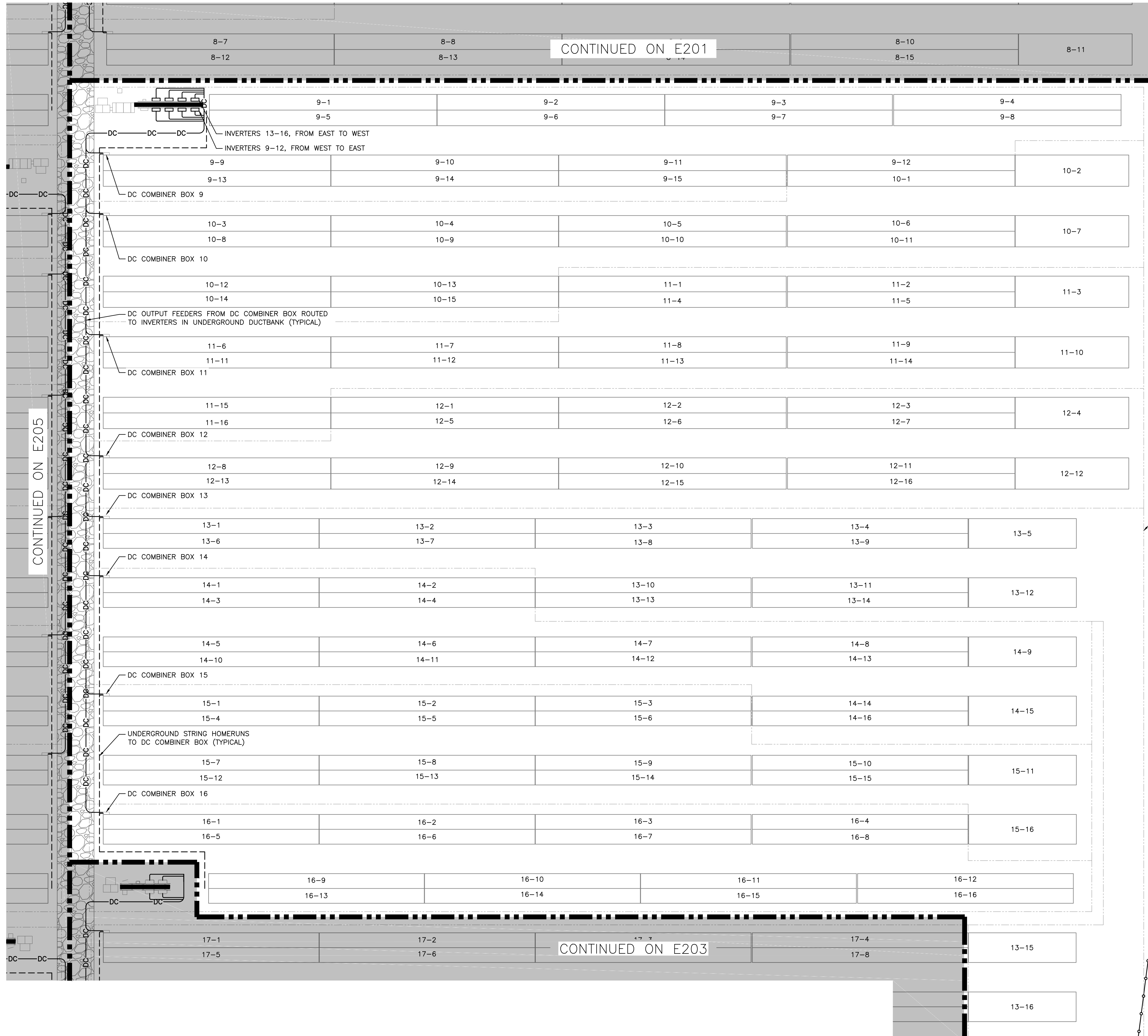


DRAWING TITLE  
PARTIAL DC ELECTRICAL PLAN  
- SYSTEM 1

DRAWING #  
E200

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 6095.440 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 DEVELOPER: Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 GREENSKIES  
 REGISTERED PROFESSIONAL ENGINEER  
 STATE OF CONNECTICUT  
 LICENSE NO. 30829B2  
 DATE: 03/13/2020  
 PERMIT SET - REV. 1  
 PERMIT SET  
 REVISION DESCRIPTION  
 DATE: 02/19/2020  
 PM: TENG CHEN  
 BX: AD  
 RI: BX: AD  
 RI: BX: AD  
 RI:

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 PLOT DATE: 4/23/2025 6:19 PM



CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENGTH OVER 24" (40% FILL)
3/4"	5	3
1"	9	6
1.25"	16	10
1.5"	22	14
2"	37	24
2.5"	40	35
3"	40	40
3.5"	40	40
4"	40	40

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE  
 PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

DATE: 03/13/2020  
 REVISION DESCRIPTION: PERMIT SET  
 DATE: 02/19/2020  
 REVISION DESCRIPTION: PERMIT SET

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DRAWING # E201

DEVELOPER: Greenskies a Clean Focus company  
 PROJECT # PPE 00083  
 PAGE SIZE: 36" x 24"

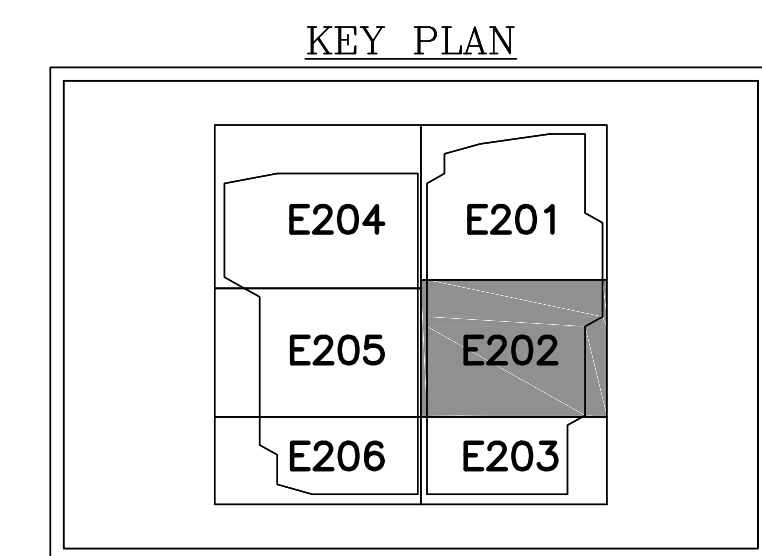
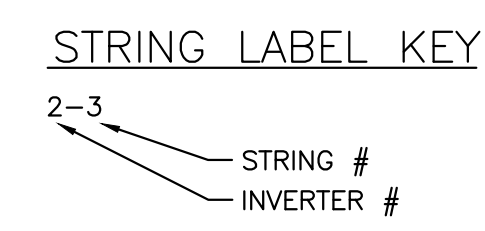
DC SYSTEM SIZE: 6095.440 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH

GREENSKIES  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM

PURE POWER  
 5 MARINE VIEW PLAZA, HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. WINKLER  
 CT LICENSE NO. 03629262

**IMPORTANT**  
 CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 2  
 E201 SCALE: 1" = 20'-0"



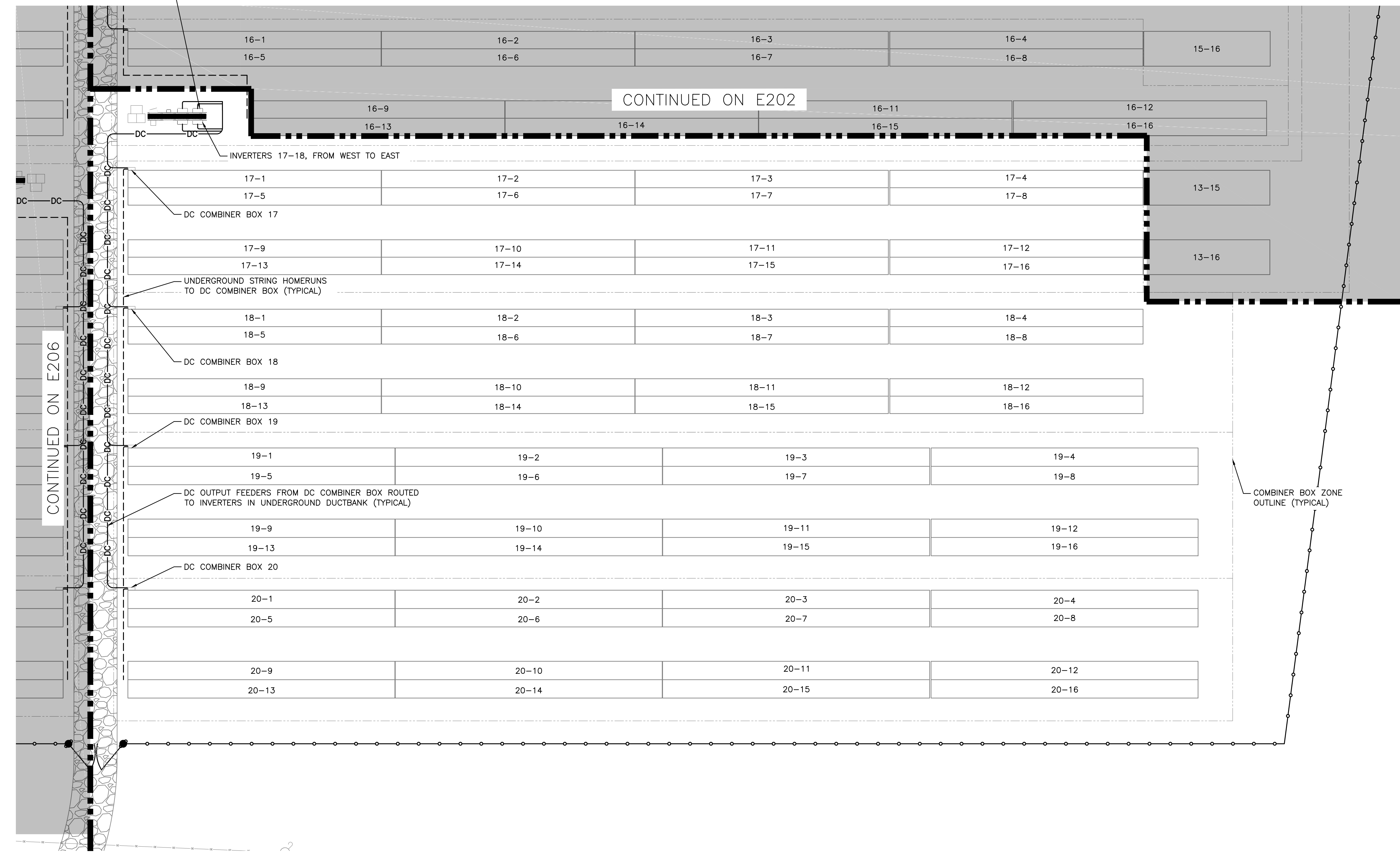
DRAWING TITLE  
 PARTIAL DC ELECTRICAL PLAN - SYSTEM 2

DRAWING #  
 E201

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 4/23/2025 6:19 PM

INVERTERS 19-20, FROM EAST TO WEST

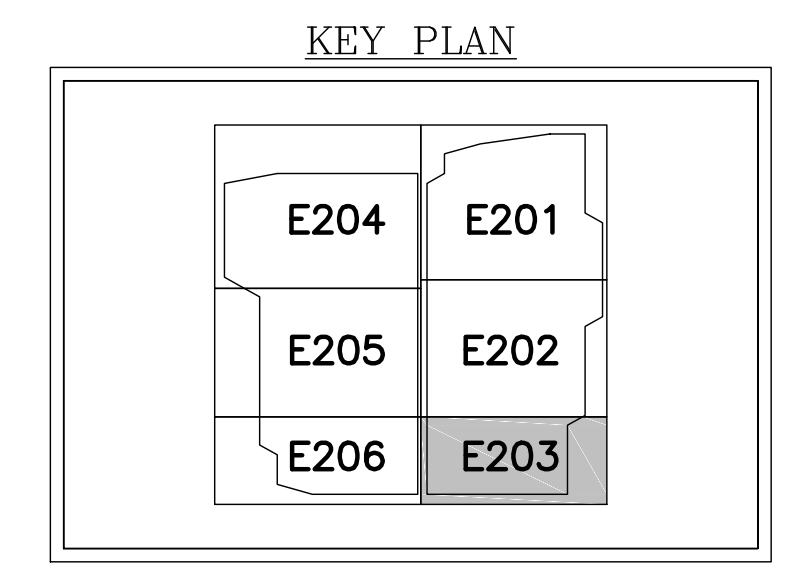
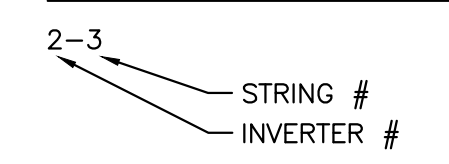


**IMPORTANT**  
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 3  
E202/ SCALE: 1" = 20'-0"



STRING LABEL KEY



DRAWING TITLE  
PARTIAL DC ELECTRICAL PLAN - SYSTEM 3

DRAWING #  
E202

CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENGTH OVER 24" (40% FILL)
3/4"	5	3
1"	9	6
1.25"	16	10
1.5"	22	14
2"	37	24
2.5"	40	35
3"	40	40
3.5"	40	40
4"	40	40

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE  
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

DATE: 03/13/2020  
 REVISION DESCRIPTION: PERMIT SET - REV. 1  
 DATE: 02/19/2020  
 REVISION DESCRIPTION: PERMIT SET

DEVELOPER: GREENSKIES  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 a Clean Focus company

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK  
 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: CANADIAN 360W/400V  
 MODULE TYPE: B294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 PROJECT #: PPE 00083

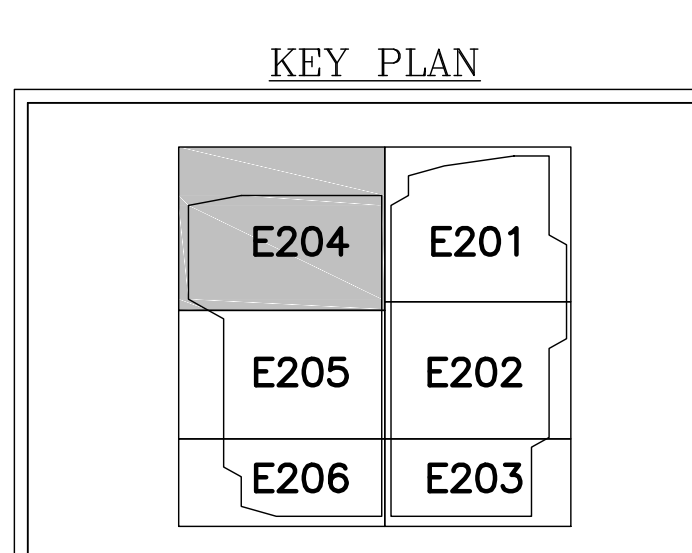
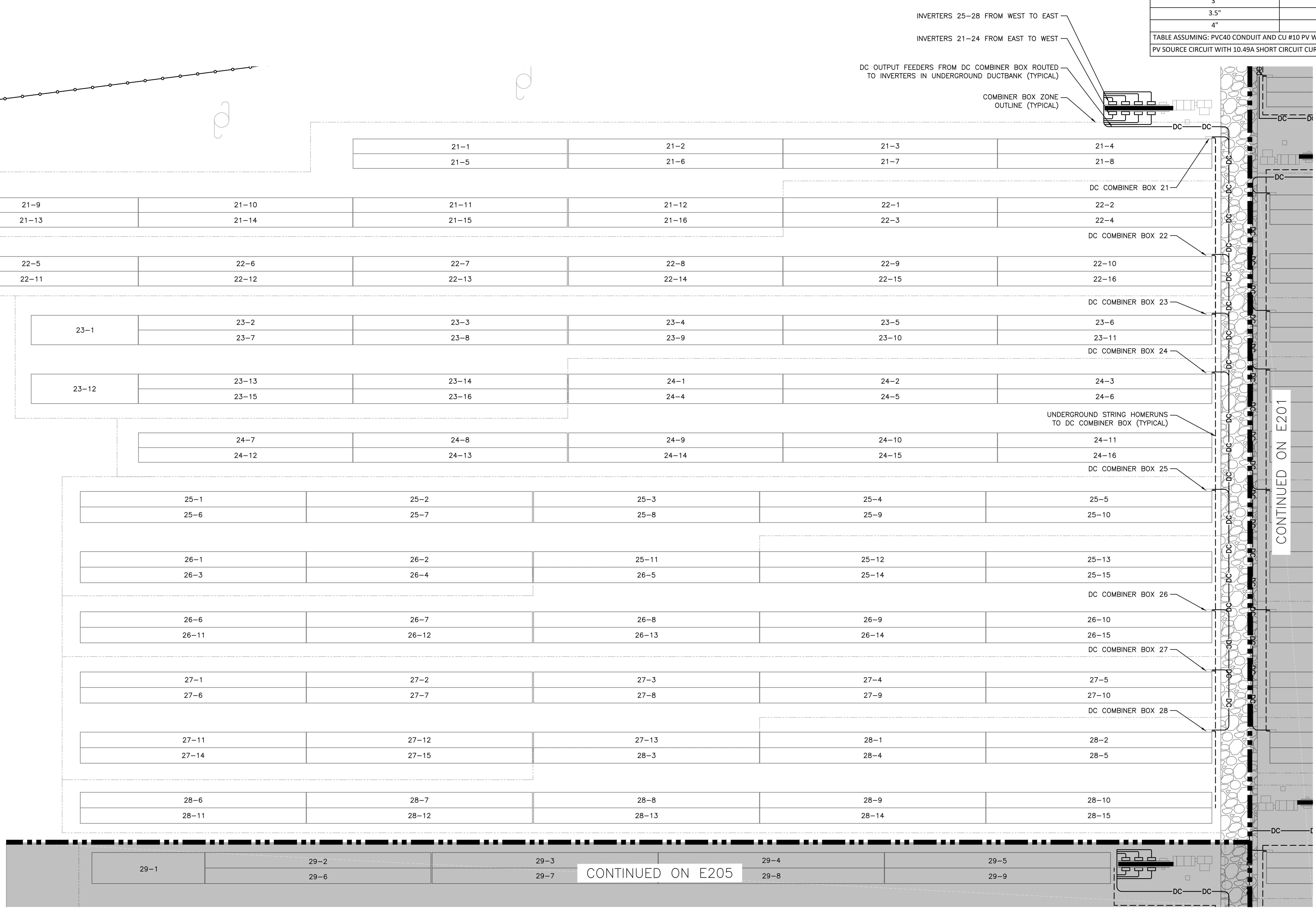
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 DRAWING # E202

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 4/23/2020 6:19 PM

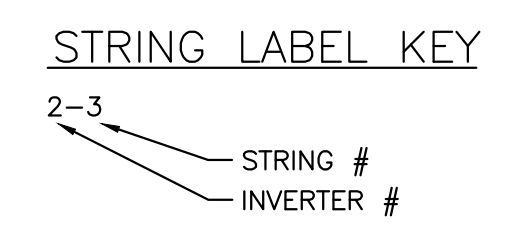
CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENGTH OVER 24" (40% FILL)
3/4"	5	3
1"	9	6
1.25"	16	10
1.5"	22	14
2"	37	24
2.5"	40	35
3"	40	40
3.5"	40	40
4"	40	40

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE  
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES



**IMPORTANT**  
CONTRACTOR MUST REDLINE DRAWINGS TO REFLECT EXACT AS-BUILT STRINGING AND RETURN TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 4  
E203 SCALE: 1" = 20'-0"



DRAWING TITLE  
PARTIAL DC ELECTRICAL PLAN - SYSTEM 4

DRAWING #  
E203

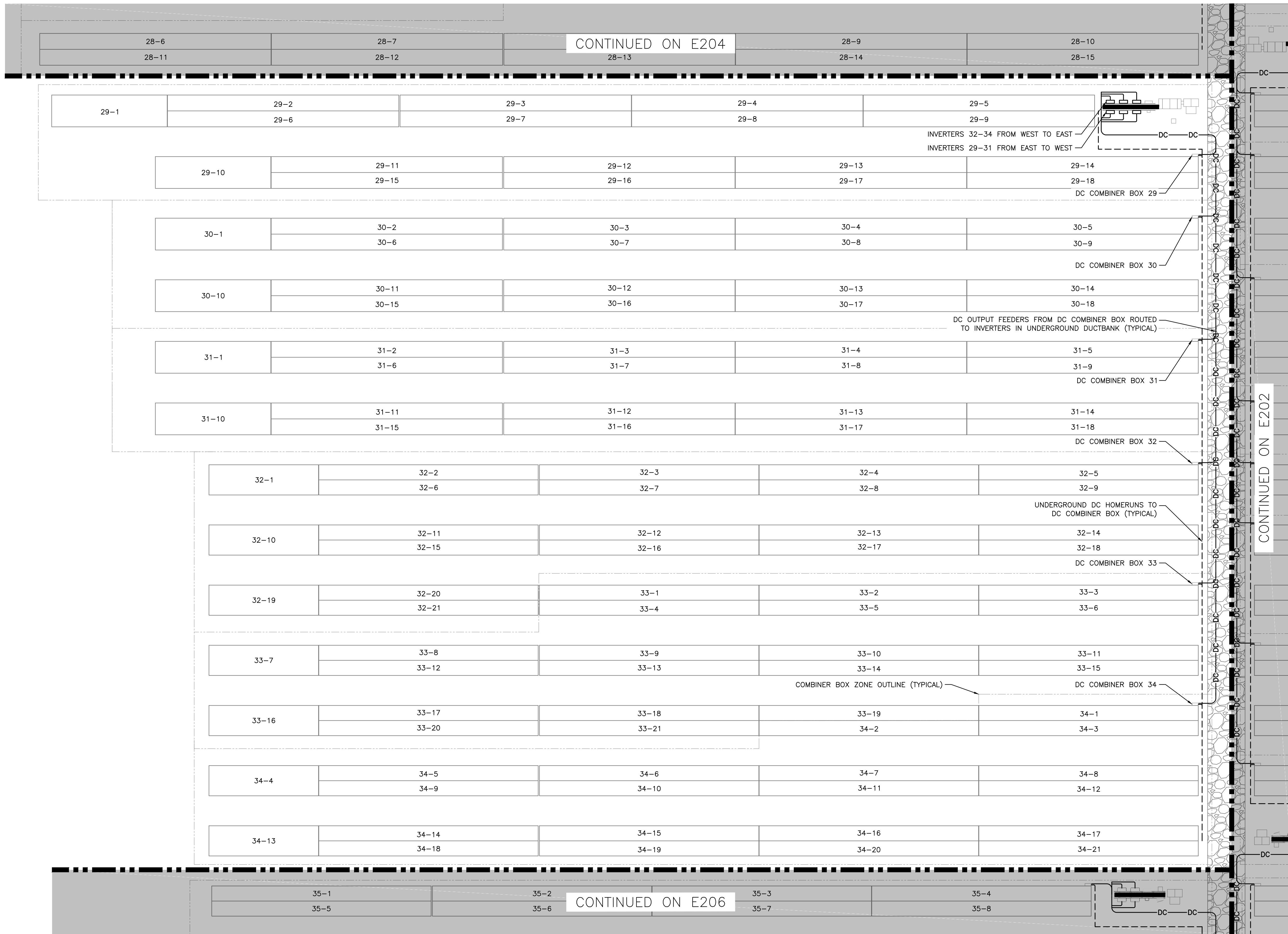
DATE: 03/13/2020  
 REVISION DESCRIPTION: PERMIT SET - REV. 1  
 DATE: 02/19/2020  
 REVISION DESCRIPTION: PERMIT SET

DEVELOPER: GREENSKIES  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 a Clean Focus company

PROJECT: 6095.440 KW STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 kW  
 AC SYSTEM SIZE: CANADIAN 360W/400W  
 MODULE TYPE: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 PAGE SIZE: 36" x 24"  
 PROJECT #: PPE 00083

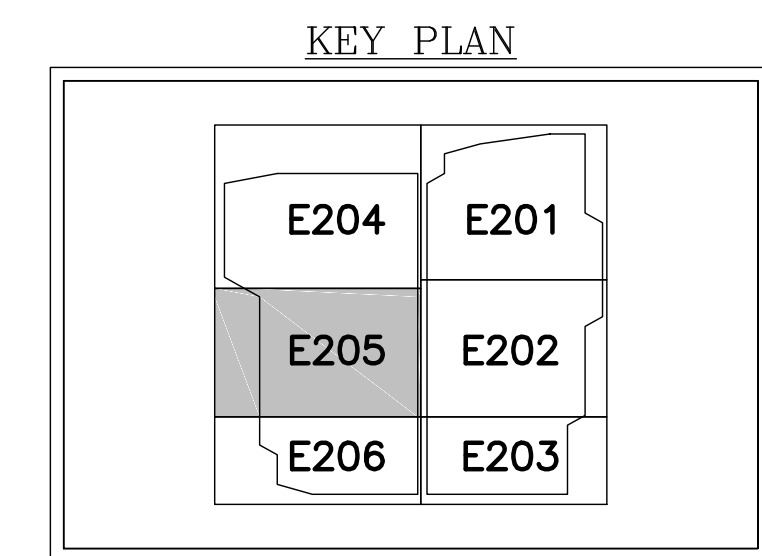
PURE POWER  
 5 MARINE VIEW PLAZA - HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. VONDERHEID  
 CT LICENSE NO. 03092862

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 PLOT DATE: 4/23/2025 6:19 PM



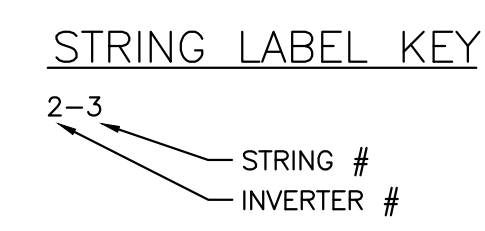
CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENGTH OVER 24" (40% FILL)
3/4"	5	3
1"	9	6
1.25"	16	10
1.5"	22	14
2"	37	24
2.5"	40	35
3"	40	40
3.5"	40	40
4"	40	40

TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE  
 PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES



**IMPORTANT**  
 CONTRACTOR MUST REDLINE  
 DRAWINGS TO REFLECT EXACT  
 AS-BUILT STRINGING AND RETURN  
 TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 5  
 E204 SCALE: 1" = 20'-0"



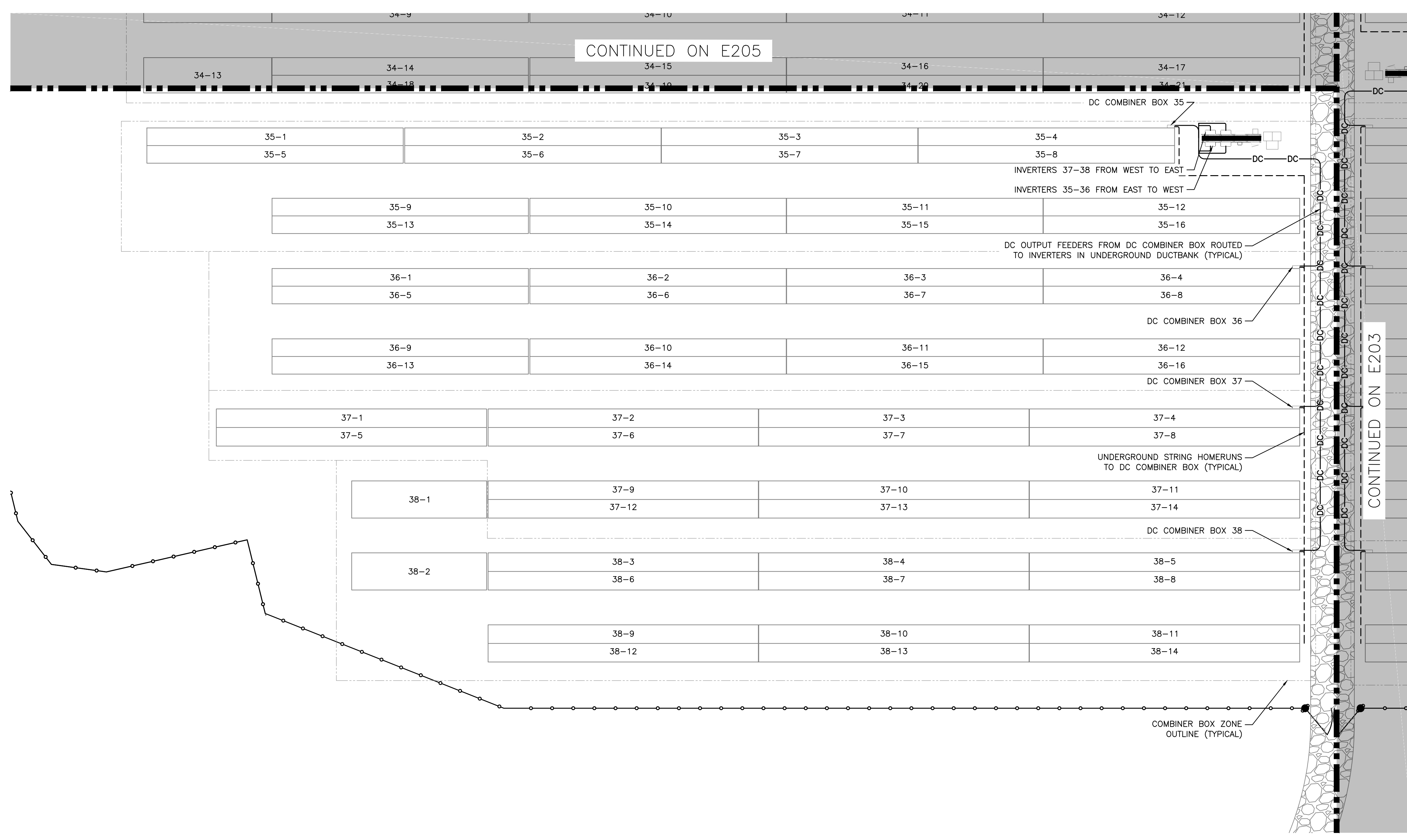
DRAWING TITLE  
 PARTIAL DC ELECTRICAL PLAN  
 - SYSTEM 5

DRAWING #  
 E204

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: CANADIAN 360W/400W  
 MODULE TYPE: B294/7774  
 MODULE QUANTITY: 25' TILT, 0' AZIMUTH  
 PROJECT # PPE 00083  
 DEVELOPER Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 PURE POWER ENERGY SOLUTIONS  
 5 MARINE VIEW PLAZA, HOBOKEN, NJ  
 WWW.PUREPOWER.COM  
 RICHARD A. TONIN  
 CT LICENSE NO. 0382982  
 DATE: 03/13/2020  
 REVISION DESCRIPTION: PERMIT SET - REV. 1  
 DATE: 02/19/2020  
 REVISION DESCRIPTION: PERMIT SET

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 4/23/2020 6:19 PM

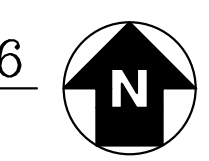


CONDUIT FILL TABLE		
MAXIMUM NUMBER OF CU #10 WIRES (PV WIRE + GROUND)		
CONDUIT TRADE SIZE	CONDUIT LENGTH 24" OR LESS (60% FILL)	CONDUIT LENGTH OVER 24" (40% FILL)
3/4"	5	3
1"	9	6
1.25"	16	10
1.5"	22	14
2"	37	24
2.5"	40	35
3"	40	40
3.5"	40	40
4"	40	40

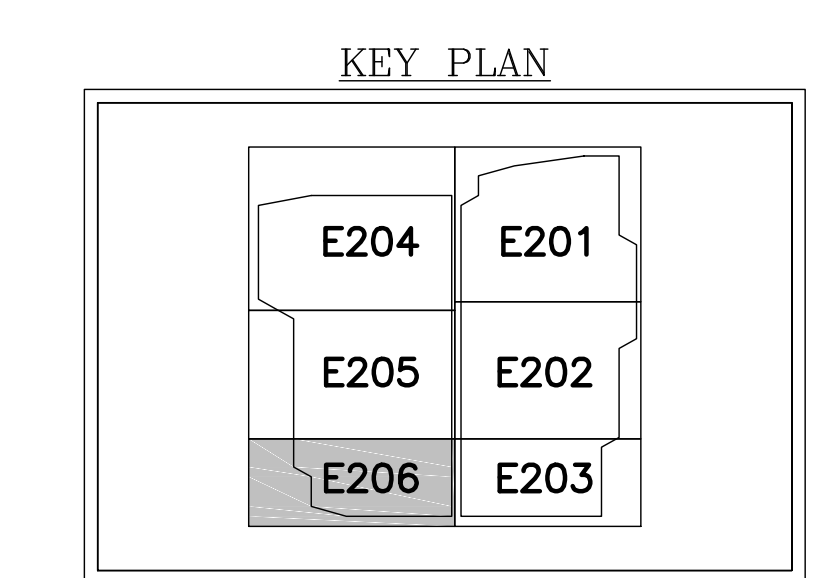
TABLE ASSUMING: PVC40 CONDUIT AND CU #10 PV WIRE WITH 0.26in O.D., 0.96 TEMP. DERATE  
PV SOURCE CIRCUIT WITH 10.49A SHORT CIRCUIT CURRENT, 1 IN PARALLEL, AND 20A FUSES

**IMPORTANT**  
CONTRACTOR MUST REDLINE  
DRAWINGS TO REFLECT EXACT  
AS-BUILT STRINGING AND RETURN  
TO PURE POWER.

1 PARTIAL DC ELECTRICAL PLAN - SYSTEM 6  
E205 SCALE: 1" = 20'-0"



STRING LABEL KEY  
2-3 STRING #  
INVERTER #



DRAWING TITLE  
PARTIAL DC ELECTRICAL PLAN  
- SYSTEM 6

DRAWING #  
E205

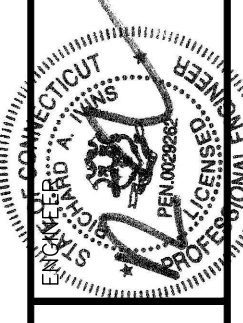
PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW  
AC SYSTEM SIZE: 4980.000 KW  
MODULE TYPE: CANADIAN 360W/400W  
MODULE QUANTITY: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

DEVELOPER  
**Greenskies**  
a Clean Focus company  
180 JOHNSON STREET,  
MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM

PAGE SIZE  
36" x 24"

PROJECT #  
PPE 00083

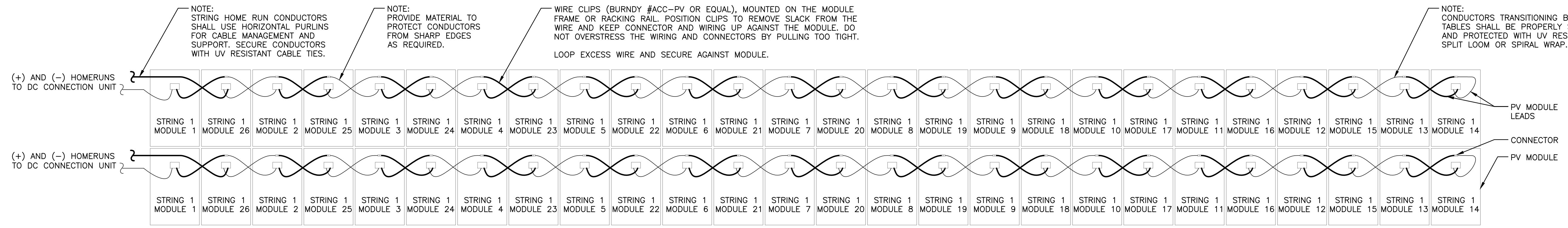


**PURE POWER**  
ENGINEERING  
5 MARINE VIEW PLAZA - HOBOKEN, NJ  
WWW.PUREPOWER.COM  
RICHARD A. JONES  
CT LICENSE NO. 0382982

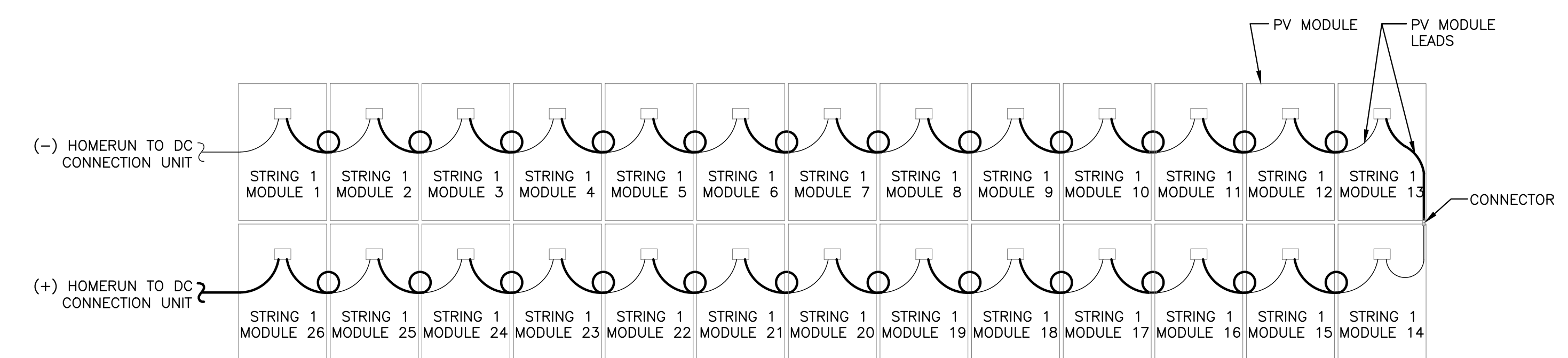
DATE	REVISION DESCRIPTION	PM	LENG	CHK
03/13/2020	PERMIT SET - REV. 1			
02/19/2020	PERMIT SET			

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 4/23/2025 6:19 PM



**1 FULL ROW INTERMODULE WIRING DETAIL**  
E206 SCALE: NONE



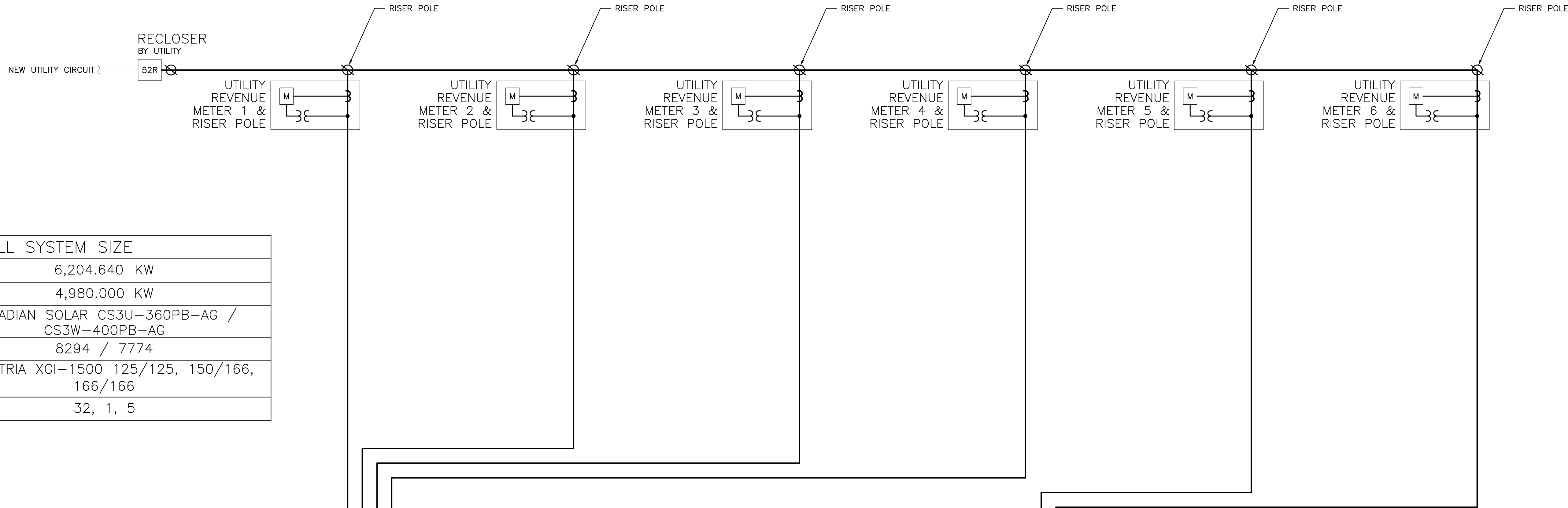
**2 HALF ROW INTERMODULE WIRING DETAIL**  
E206 SCALE: NONE

 <b>GREENSKIES</b> 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM	 5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. VON CT LICENSE NO. 03029262	REVISION DESCRIPTION DATE DATE DATE	PM LENG CHK BK AD RT	
	DEVELOPER <b>Greenskies</b> a Clean Focus company	PAGE SIZE 3.6" x 24" PROJECT # PPE_00083	PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378	DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW MODULE TYPE: CANADIAN 360W/400W MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH
	PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378	PAGE SIZE 3.6" x 24" PROJECT # PPE_00083	PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378	DC SYSTEM SIZE: 6095.440 KW AC SYSTEM SIZE: 4980.000 KW MODULE TYPE: CANADIAN 360W/400W MODULE QUANTITY: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH

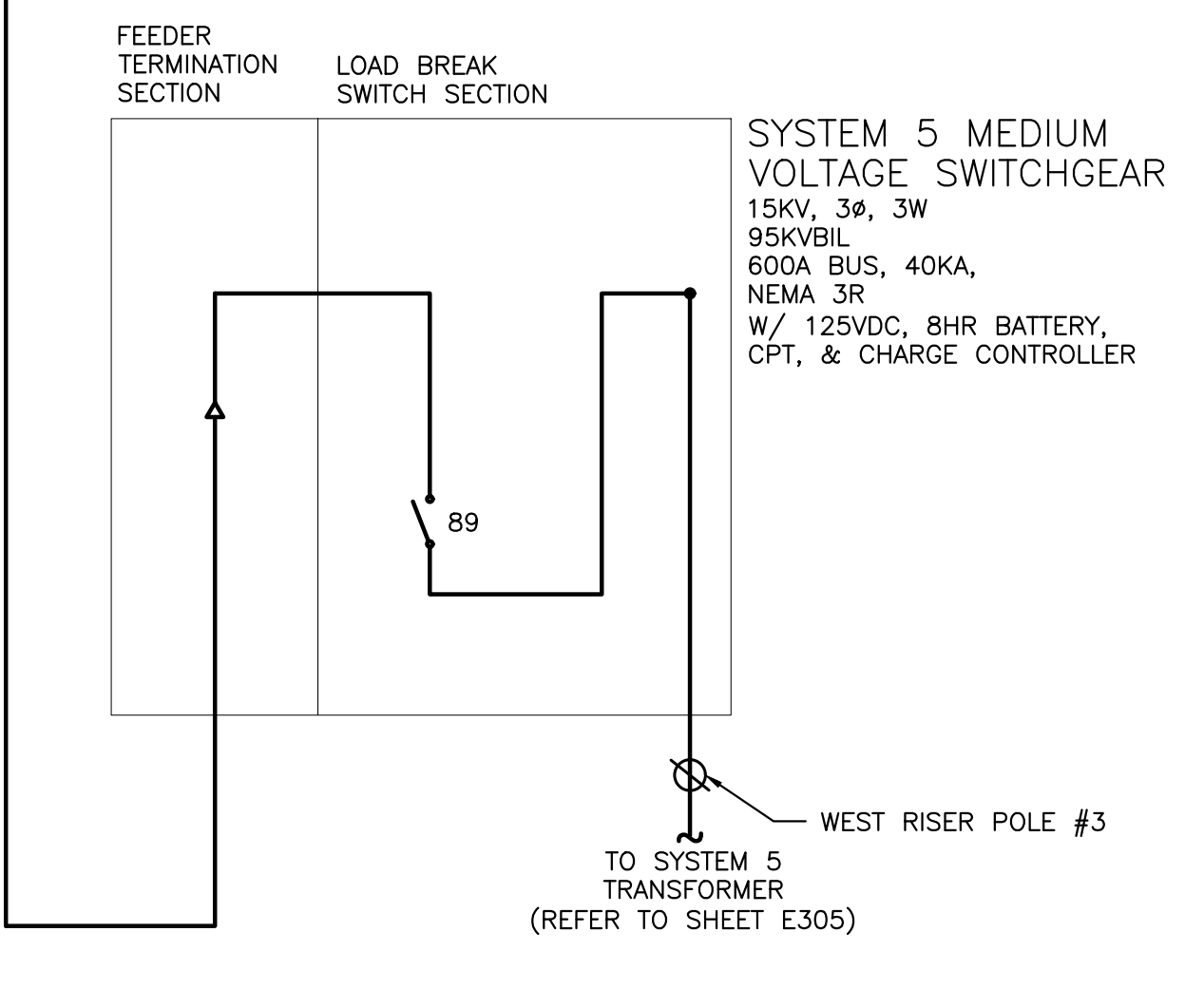
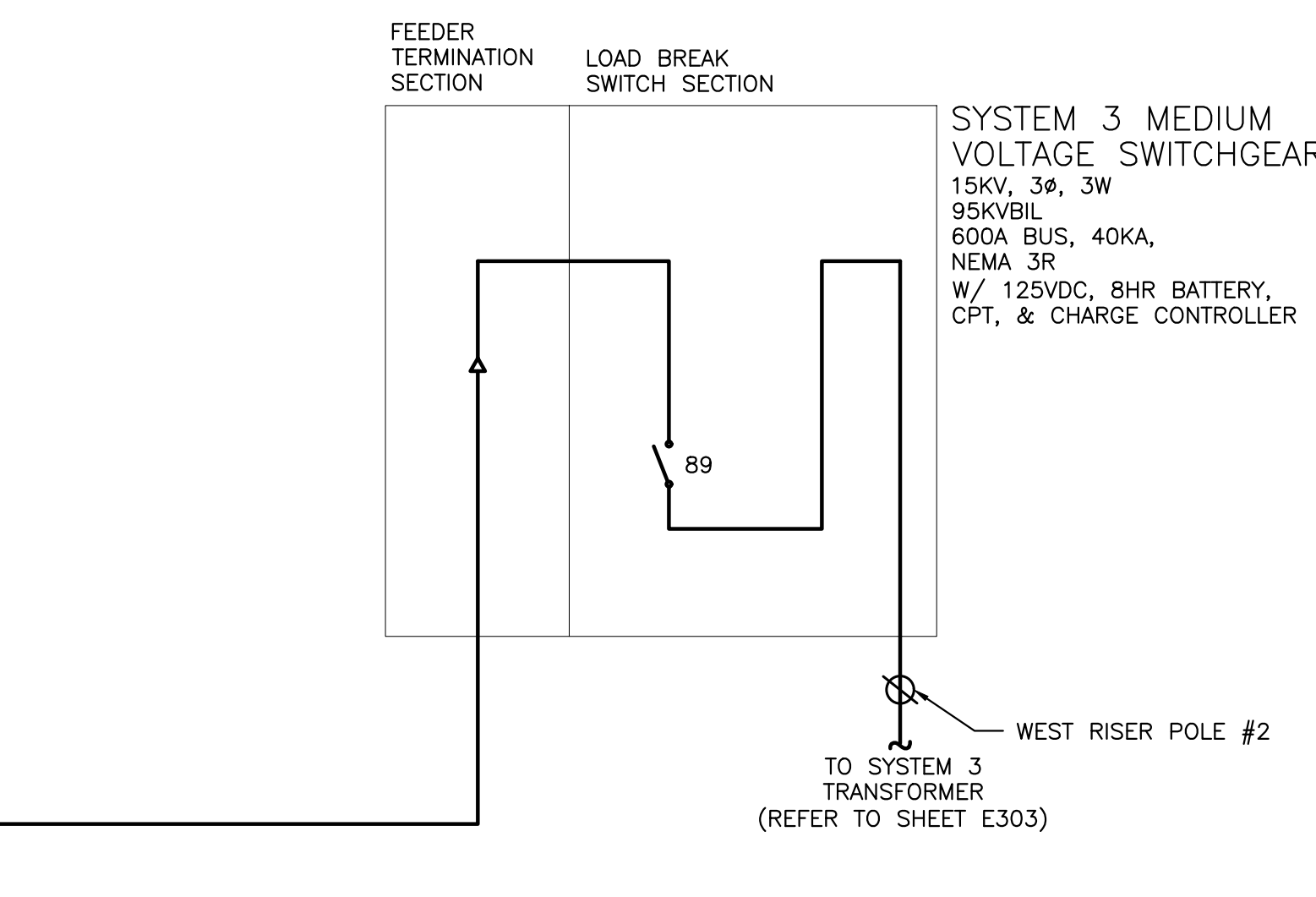
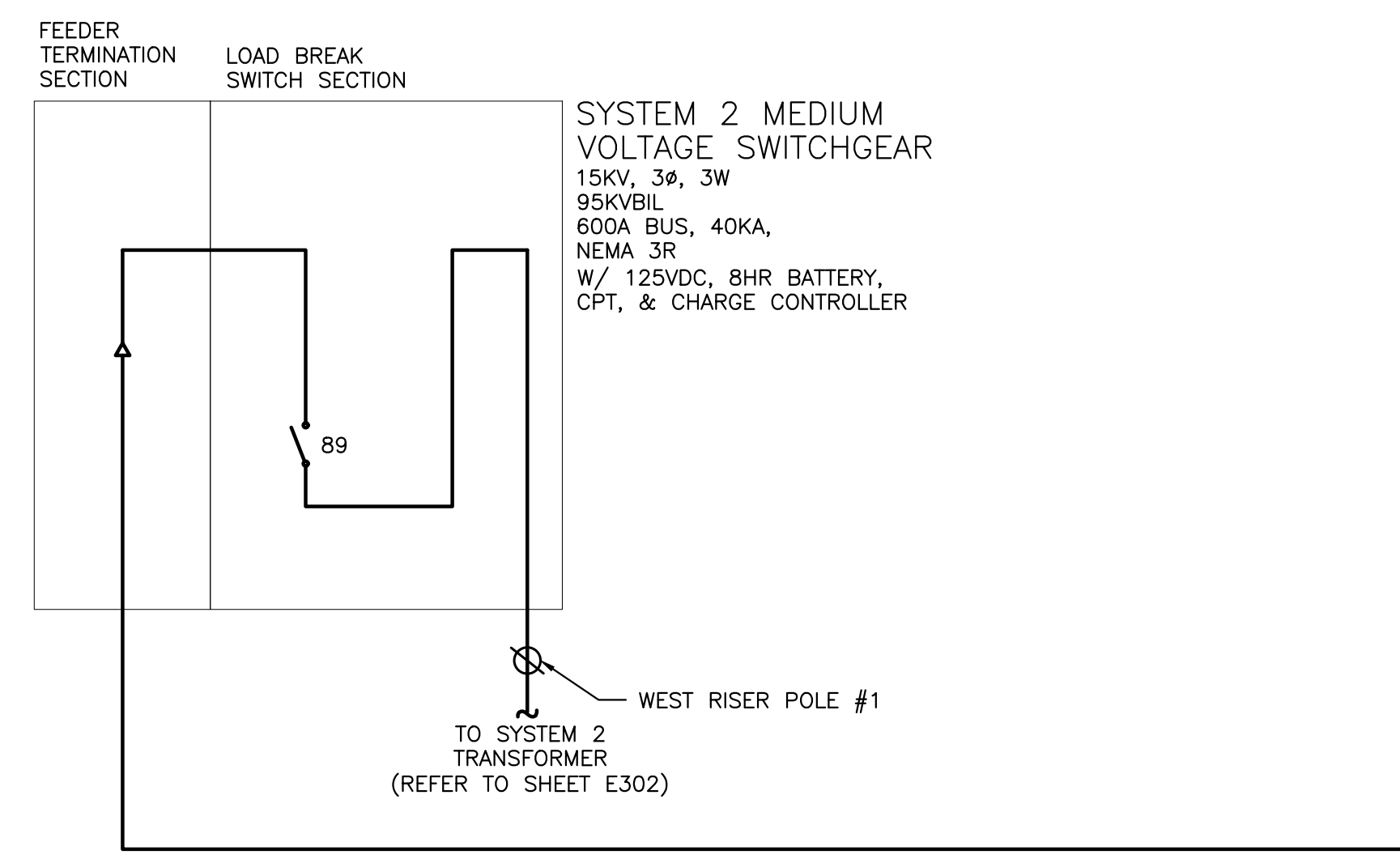
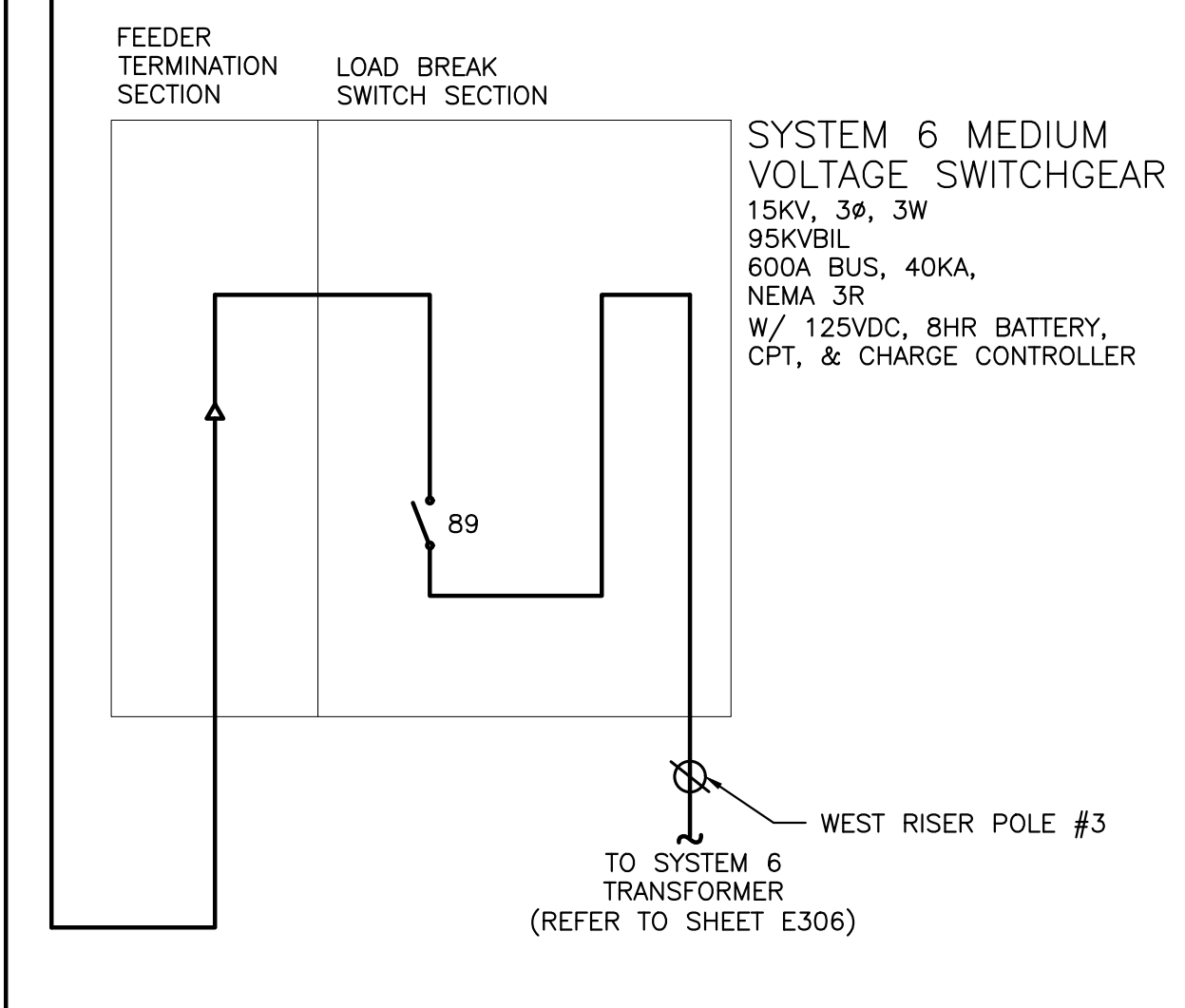
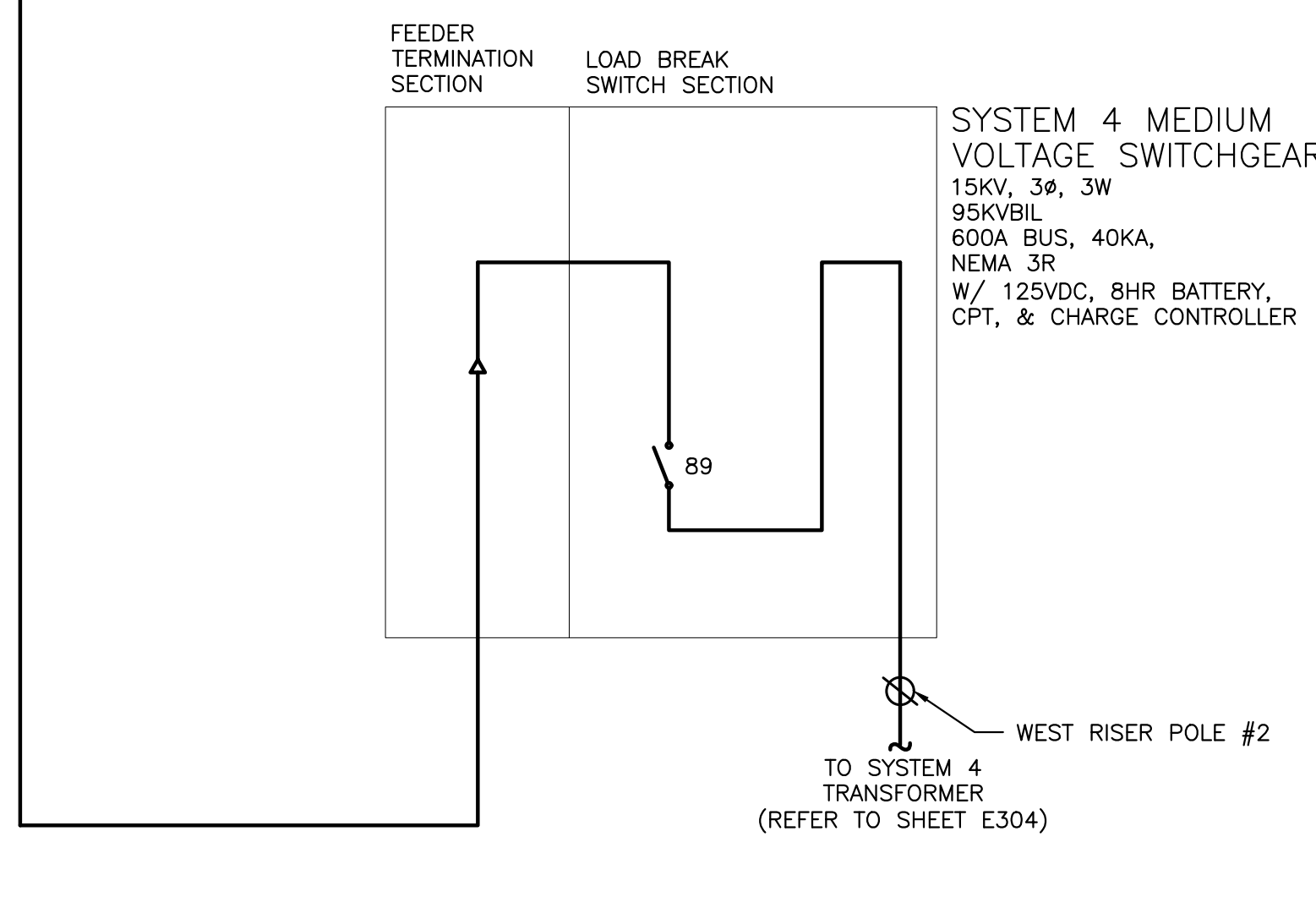
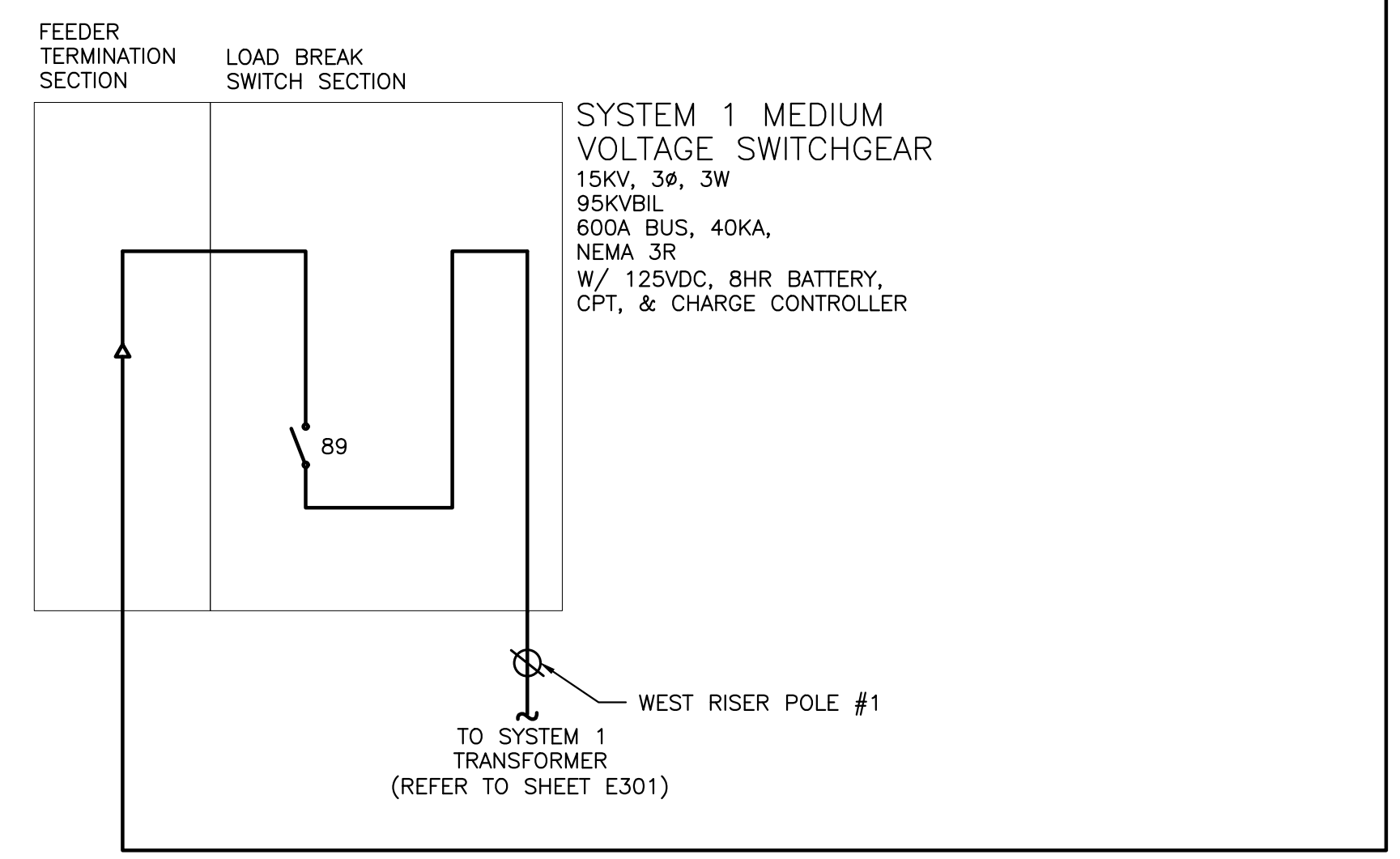


RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

PLOT DATE: 4/23/2025 6:19 PM



OVERALL SYSTEM SIZE	
DC SYSTEM SIZE	6,204.640 KW
AC SYSTEM SIZE	4,980.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	8294 / 7774
INVERTER	SOLECTRIA XGI-1500 125/125, 150/166, 166/166
INVERTER QTY	32, 1, 5



1 ONE LINE DIAGRAM  
E300 SCALE: NONE

DRAWING TITLE  
ONE LINE DIAGRAM — MEDIUM VOLTAGE

DRAWING #  
E300

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DC SYSTEM SIZE: 6095.440 KW  
AC SYSTEM SIZE: 4980.000 KW  
MODULE TYPE: CANADIAN SOLAR 360W/400W  
MODULE QUANTITY: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

PAGE SIZE: 36" x 24"  
PROJECT #: PPE 00083

DEVELOPER: Greenskies a Clean Focus Company  
180 JOHNSON STREET, MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM

REVISION DESCRIPTION: PERMIT SET - REV 2  
DATE: 04/03/2020  
PROPOSED MW EQUIPMENT: PERMIT SET  
DATE: 03/05/2020  
CONCEPTUAL DESIGN: PERMIT SET  
DATE: 02/19/2020  
CONCEPTUAL DESIGN: PERMIT SET  
DATE: 01/31/2020

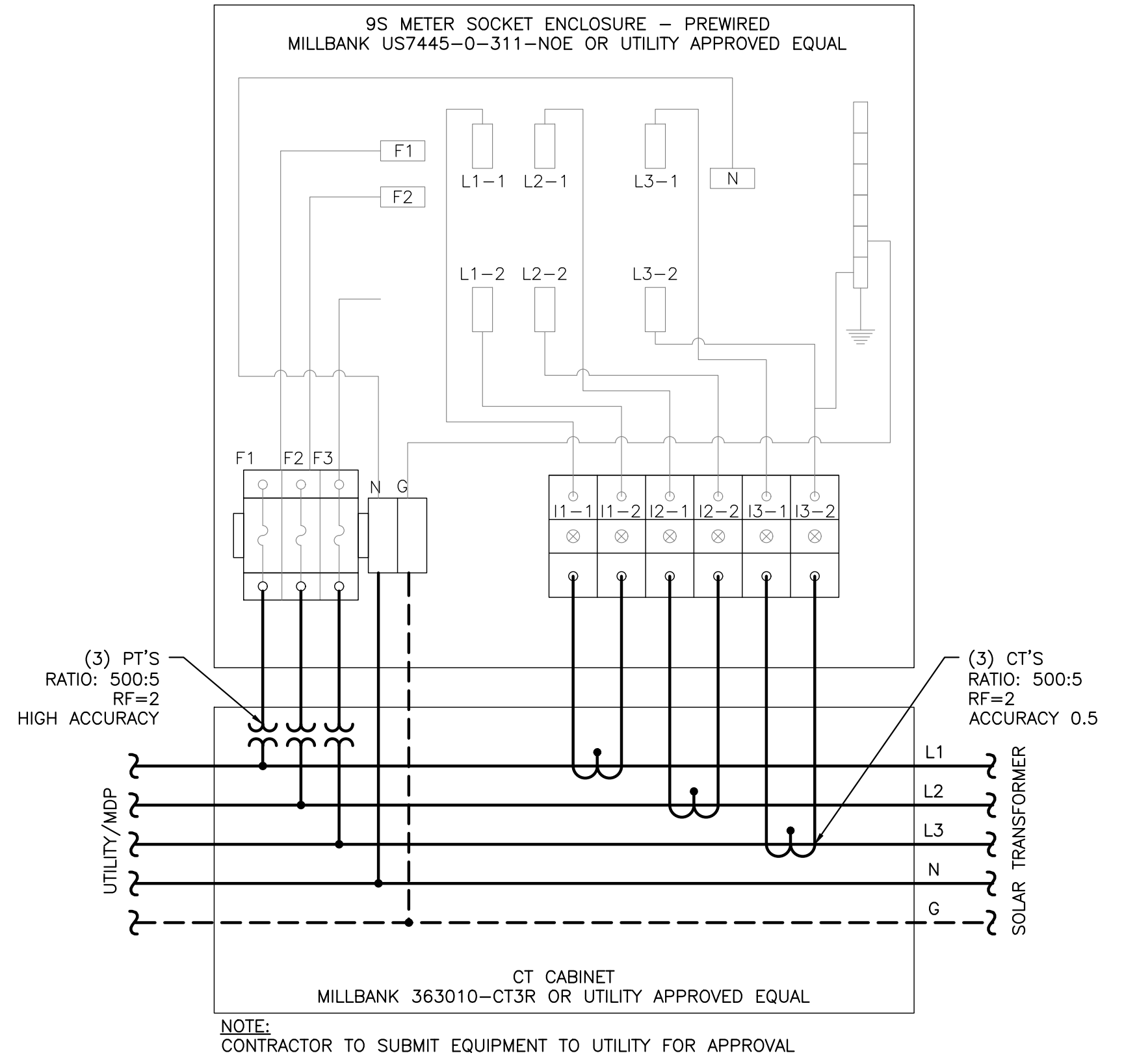
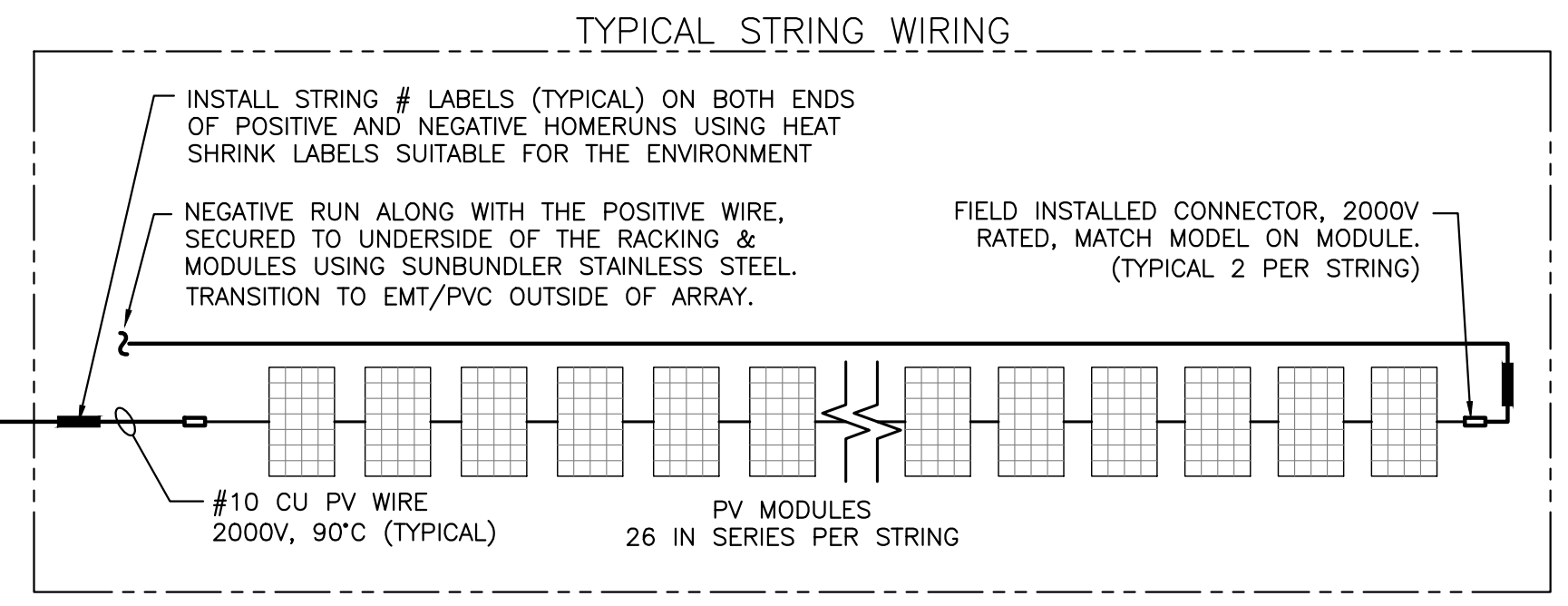
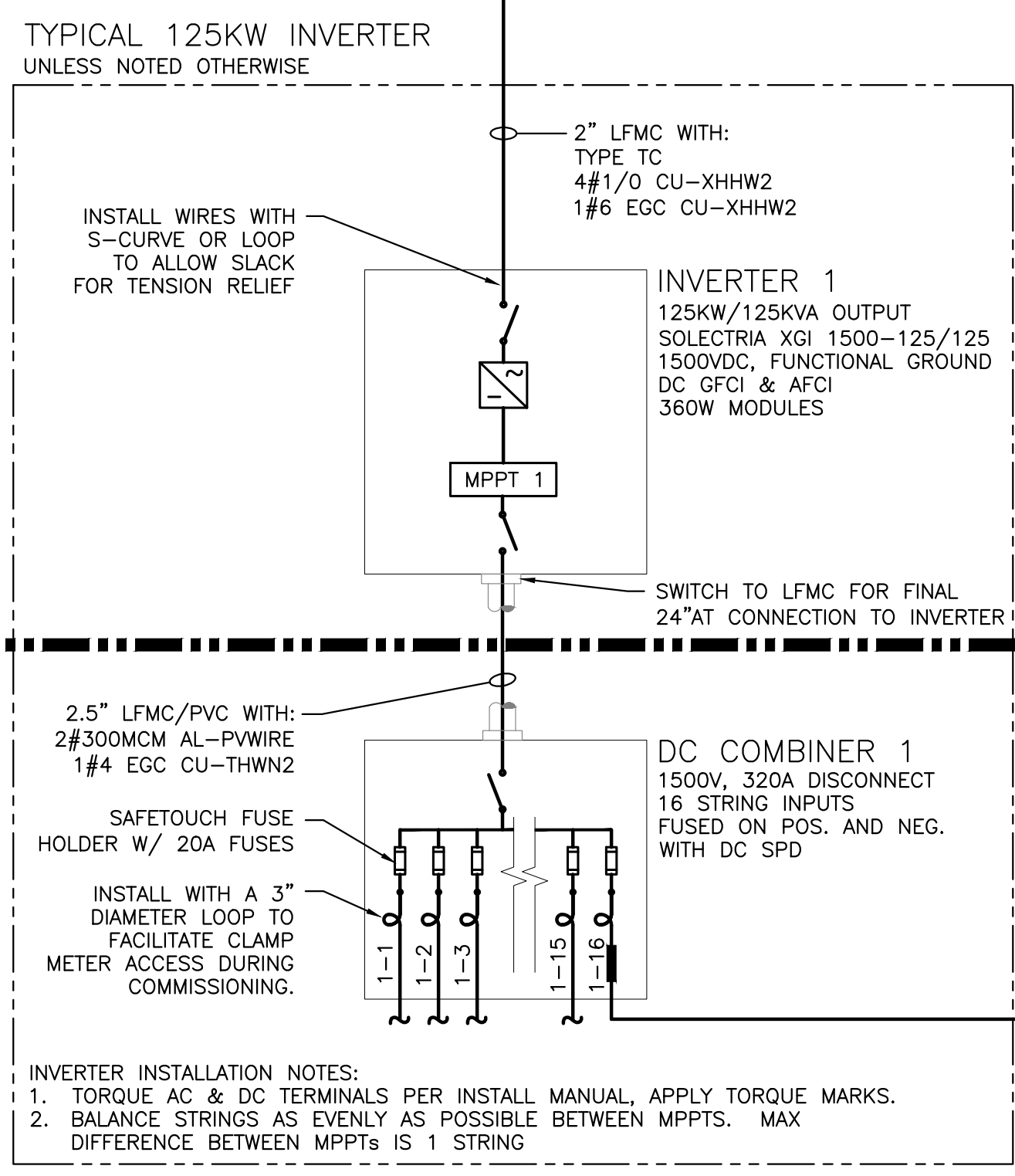
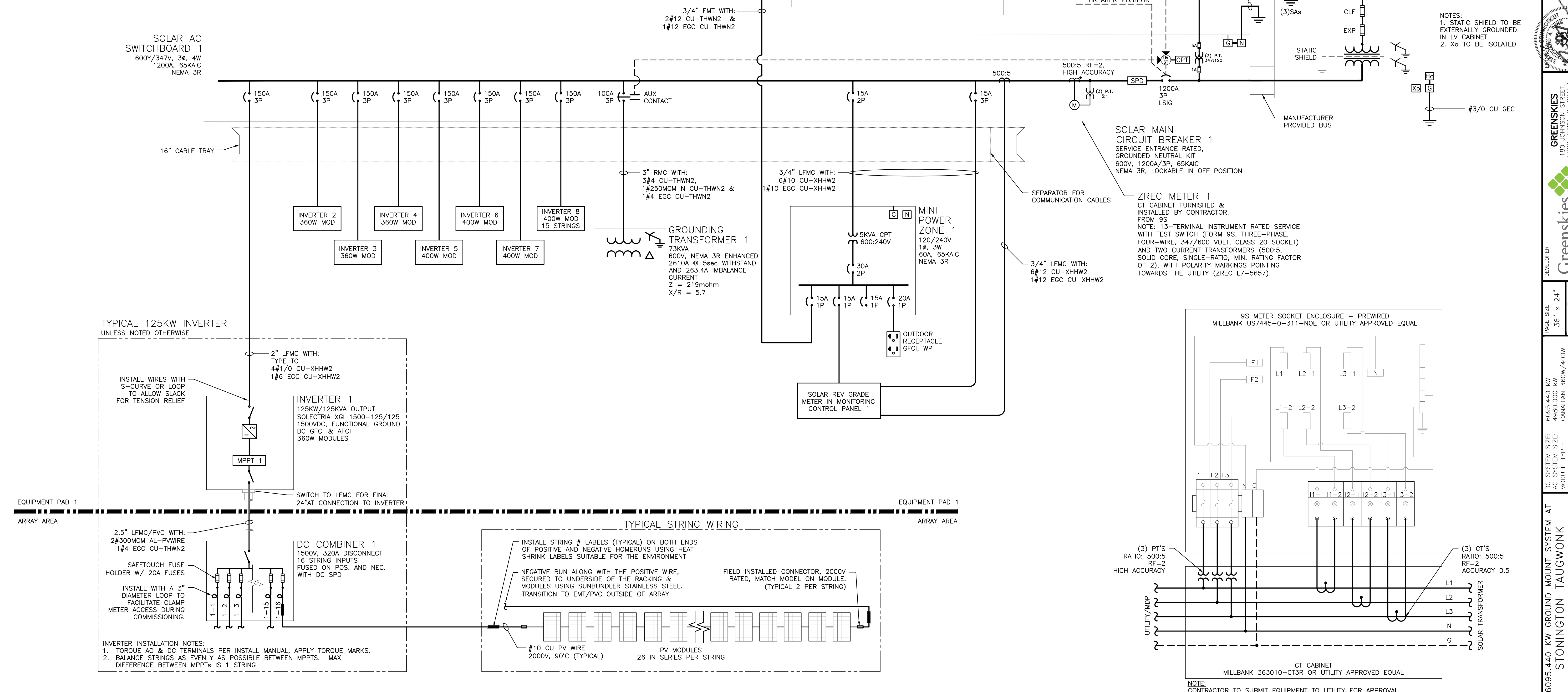
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BX: AD  
RI: RI  
BX: SK  
RI: RI  
BX: AD  
RI: RI  
BX: SK  
RI: RI

PLOT DATE: 4/23/2020 6:19 PM  
 RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

EXTERNAL RELAY SETTINGS - SYSTEM 1							
ANSI ELEMENT #	Pickup	Real	Units	Level	Delay (sec)	Total Clear Time (sec)*	Description
27	105.42	305	V	88%	1.95	2.00	Slow UV
27	59.89	173	V	50%	1.05	1.10	Fast UV
27C	95.83	277	V	80%			Voltage Pickup for S1C & S1CG
59	131.77	381	V	110%	1.95	2.00	Slow OV
59	143.75	416	V	120%	0.11	0.16	Fast OV
59N	15.57	45	V	13%	1.95	2.00	Neutral Shift
81U-1	56.58	56.58	Hz	94%	0.11	0.16	Fast UF
81U-2	58.50	58.50	Hz	98%	299.95	300.00	Slow UF
81O-1	62.04	62.04	Hz	103%	0.11	0.16	Fast OF
81O-2	61.20	61.20	Hz	102%	299.95	300.00	Slow OF
79	113.80	329	V	95%	299.95	300.00	Min Reclosing Voltage Value
79	125.78	364	V	105%	299.95	300.00	Max Reclosing Voltage Value
79	59.58	59.58	Hz	99%	299.95	300.00	Min Reclosing Frequency Value
79	60.54	60.54	Hz	101%	299.95	300.00	Max Reclosing Frequency Value
346.4V USED FOR 27/59 ELEMENTS							
PT RATIO FACTOR 347:120							
* total clear time includes 0.05 sec breaker opening time							

INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT					
ANSI ELEMENT #	Pickup	Units*	Level	Total Clear Time (sec)	Description
27	304.8	V	88%	2.00	Slow UV
27	173.2	V	50%	1.10	Fast UV
59	381.1	V	110%	2.00	Slow OV
59	415.7	V	120%	0.16	Fast OV
81U-1	56.50	Hz	94%	0.16	Fast UF
81U-2	58.50	Hz	98%	300.00	Slow UF
81O-1	62.00	Hz	103%	0.16	Fast OF
81O-2	61.20	Hz	102%	300.00	Slow OF
79	329.1	V	95%	300.00	Min Reclosing Voltage Value
79	363.7	V	105%	300.00	Max Reclosing Voltage Value
79	59.6	Hz	99%	300.00	Min Reclosing Frequency Value
79	60.5	Hz	101%	300.00	Max Reclosing Frequency Value
INVERTER INTERNAL OPERATION SETTINGS					
PF Set Point	1.00				Power Factor Control
Var Control	OFF				Reactive Power Control
Ramp Rate	10%/1 sec				dkw / dt
Freq Control	OFF				Speed Control
* voltages based off 346.4V line to Neutral					

SYSTEM 1 SUMMARY	
DC SYSTEM SIZE	1,254.240 KW
AC SYSTEM SIZE	1,000.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	1664 / 1638
INVERTER	SOLECTRIA XGI-1500 125/125
INVERTER QTY	8



1 ONE LINE DIAGRAM  
E301 SCALE: NONE

2 ZREC METER WIRING DIAGRAM (TYPICAL)  
E300 SCALE: NONE

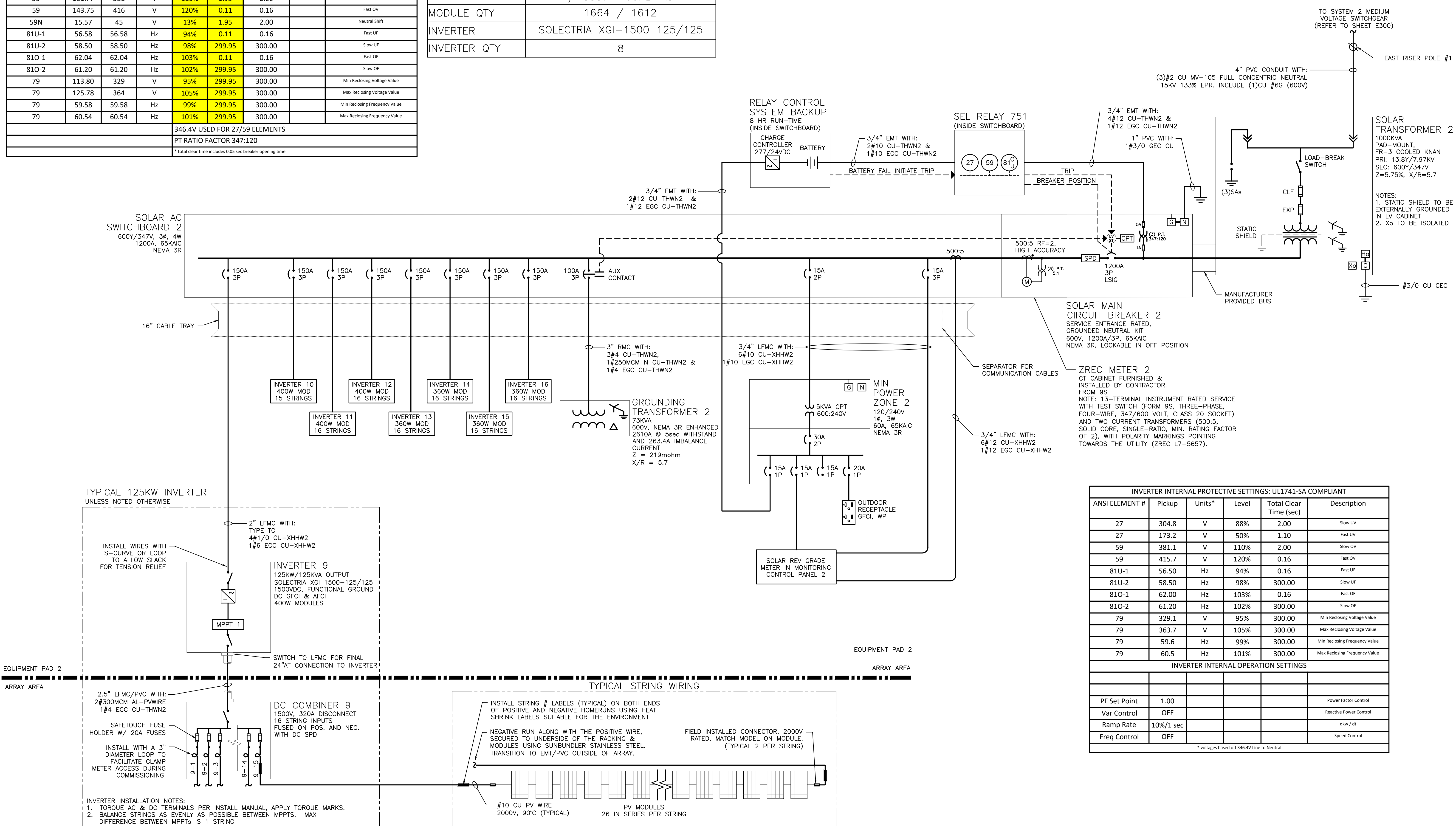
DRAWING TITLE  
ONE LINE DIAGRAM - SYSTEM 1

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK, 35 TAUGWONK SPUR ROAD, STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: CANADIAN 360W/400W  
 MODULE TYPE: B294/7774  
 MODULE QUANTITY: 1664  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 DRAWING #: E301  
 DEVELOPER: Greenskies, a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457, WWW.GREENSKIES.COM  
 CT LICENSE NO. 03629282  
 DATE: 04/03/2020  
 PERMIT SET - REV 2  
 PERMIT SET  
 CONCEPTUAL DESIGN  
 REVISION DESCRIPTION: 02/19/2020, 03/31/2020  
 DATE: 04/03/2020  
 PERMIT SET - REV 2  
 PERMIT SET  
 CONCEPTUAL DESIGN

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 PLOT DATE: 4/23/2020 6:20 PM

EXTERNAL RELAY SETTINGS - SYSTEM 2								
ANSI ELEMENT #	Pickup	Real	Units	Level	Delay (sec)	Total Clear Time (sec)*	Curve	Description
27	105.42	305	V	88%	1.95	2.00		Slow UV
27	59.89	173	V	50%	1.05	1.10		Fast UV
27C	95.83	277	V	80%				Voltage Pickup for SIC & SICG
59	131.77	381	V	110%	1.95	2.00		Slow OV
59	143.75	416	V	120%	0.11	0.16		Fast OV
59N	15.57	45	V	13%	1.95	2.00		Neutral Shift
81U-1	56.58	56.58	Hz	94%	0.11	0.16		Fast UF
81U-2	58.50	58.50	Hz	98%	299.95	300.00		Slow UF
81O-1	62.04	62.04	Hz	103%	0.11	0.16		Fast OF
81O-2	61.20	61.20	Hz	102%	299.95	300.00		Slow OF
79	113.80	329	V	95%	299.95	300.00		Min Reclosing Voltage Value
79	125.78	364	V	105%	299.95	300.00		Max Reclosing Voltage Value
79	59.58	59.58	Hz	99%	299.95	300.00		Min Reclosing Frequency Value
79	60.54	60.54	Hz	101%	299.95	300.00		Max Reclosing Frequency Value
346.4V USED FOR 27/59 ELEMENTS								
PT RATIO FACTOR 347:120								
* total clear time includes 0.05 sec breaker opening time								

SYSTEM 2 SUMMARY	
DC SYSTEM SIZE	1,243.840 KW
AC SYSTEM SIZE	1,000.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	1664 / 1612
INVERTER	SOLECTRIA XGI-1500 125/125
INVERTER QTY	8



1 ONE LINE DIAGRAM  
E302 SCALE: NONE

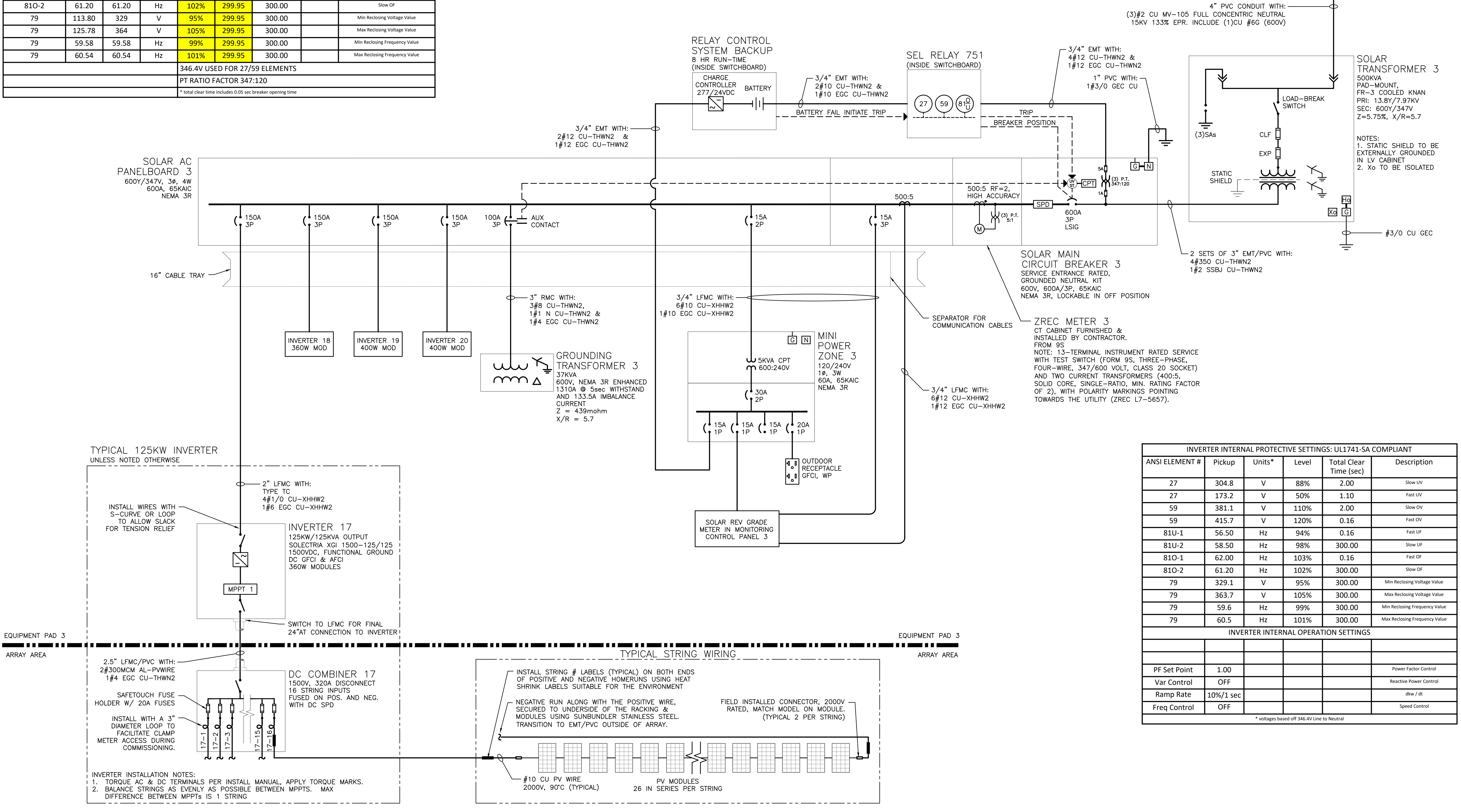
DRAWING TITLE  
ONE LINE DIAGRAM - SYSTEM 2  
DRAWING #  
E302

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: CANADIAN 360W/400W  
 MODULE TYPE: 8294/7774  
 MODULE QUANTITY: 25' TILT, 0' AZIMUTH ORIENTATION:  
 DEVELOPER: Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM  
 PURE POWER ENERGY SOLUTIONS  
 5 MARINE VIEW PLAZA, HOBOKEN, NJ 07030 WWW.PUREPOWER.COM  
 RICHARD A. TONIN  
 CT LICENSE NO. 03629262  
 DATE: 04/03/2020  
 PERMIT SET - REV 2  
 PERMIT SET  
 CONCEPTUAL DESIGN  
 REVISION DESCRIPTION  
 DATE: 03/31/2020  
 PM LENG CHK  
 BX AD RI  
 BX AD RI  
 BX SK RI

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

EXTERNAL RELAY SETTINGS - SYSTEM 3								
ANSI ELEMENT #	Pickup	Real	Units	Level	Delay (sec)	Total Clear Time (sec)*	Curve	Description
27	105.42	305	V	88%	1.95	2.00		Slow UV
27	59.89	173	V	50%	1.05	1.10		Fast UV
27C	95.83	277	V	80%				Voltage Pickup for SIC & SICG
59	131.77	381	V	110%	1.95	2.00		Slow OV
59	143.75	416	V	120%	0.11	0.16		Fast OV
59N	15.57	45	V	13%	1.95	2.00		Neutral Shift
81U-1	56.58	56.58	Hz	94%	0.11	0.16		Fast UF
81U-2	58.50	58.50	Hz	98%	299.95	300.00		Slow UF
81O-1	62.04	62.04	Hz	103%	0.11	0.16		Fast OF
81O-2	61.20	61.20	Hz	102%	299.95	300.00		Slow OF
79	113.80	329	V	95%	299.95	300.00		Min Reclosing Voltage Value
79	125.78	364	V	105%	299.95	300.00		Max Reclosing Voltage Value
79	59.58	59.58	Hz	99%	299.95	300.00		Min Reclosing Frequency Value
79	60.54	60.54	Hz	101%	299.95	300.00		Max Reclosing Frequency Value
346.4V USED FOR 27/59 ELEMENTS								
PT RATIO FACTOR 347:120								
* total clear time includes 0.05 sec breaker opening time								

SYSTEM 3 SUMMARY	
DC SYSTEM SIZE	632.320 KW
AC SYSTEM SIZE	500.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	832 / 832
INVERTER	SOLECTRIA XGI-1500 125/125
INVERTER QTY	4



INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT					
ANSI ELEMENT #	Pickup	Units*	Level	Total Clear Time (sec)	Description
27	304.8	V	88%	2.00	Slow UV
27	173.2	V	50%	1.10	Fast UV
59	381.1	V	110%	2.00	Slow OV
59	415.7	V	120%	0.16	Fast OV
81U-1	56.50	Hz	94%	0.16	Fast UF
81U-2	58.50	Hz	98%	300.00	Slow UF
81O-1	62.00	Hz	103%	0.16	Fast OF
81O-2	61.20	Hz	102%	300.00	Slow OF
79	329.1	V	95%	300.00	Min Reclosing Voltage Value
79	363.7	V	105%	300.00	Max Reclosing Voltage Value
79	59.6	Hz	99%	300.00	Min Reclosing Frequency Value
79	60.5	Hz	101%	300.00	Max Reclosing Frequency Value

INVERTER INTERNAL OPERATION SETTINGS			
Parameter	Setting	Control	Control
PF Set Point	1.00	Power Factor Control	
Var Control	OFF	Reactive Power Control	
Ramp Rate	10%/1 sec	dV/dt	
Freq Control	OFF	Speed Control	

\* voltages based off 346.4V Line to Neutral

1 ONE LINE DIAGRAM  
E303 SCALE: NONE

DRAWING TITLE  
ONE LINE DIAGRAM -  
SYSTEM 3  
DRAWING #  
E303

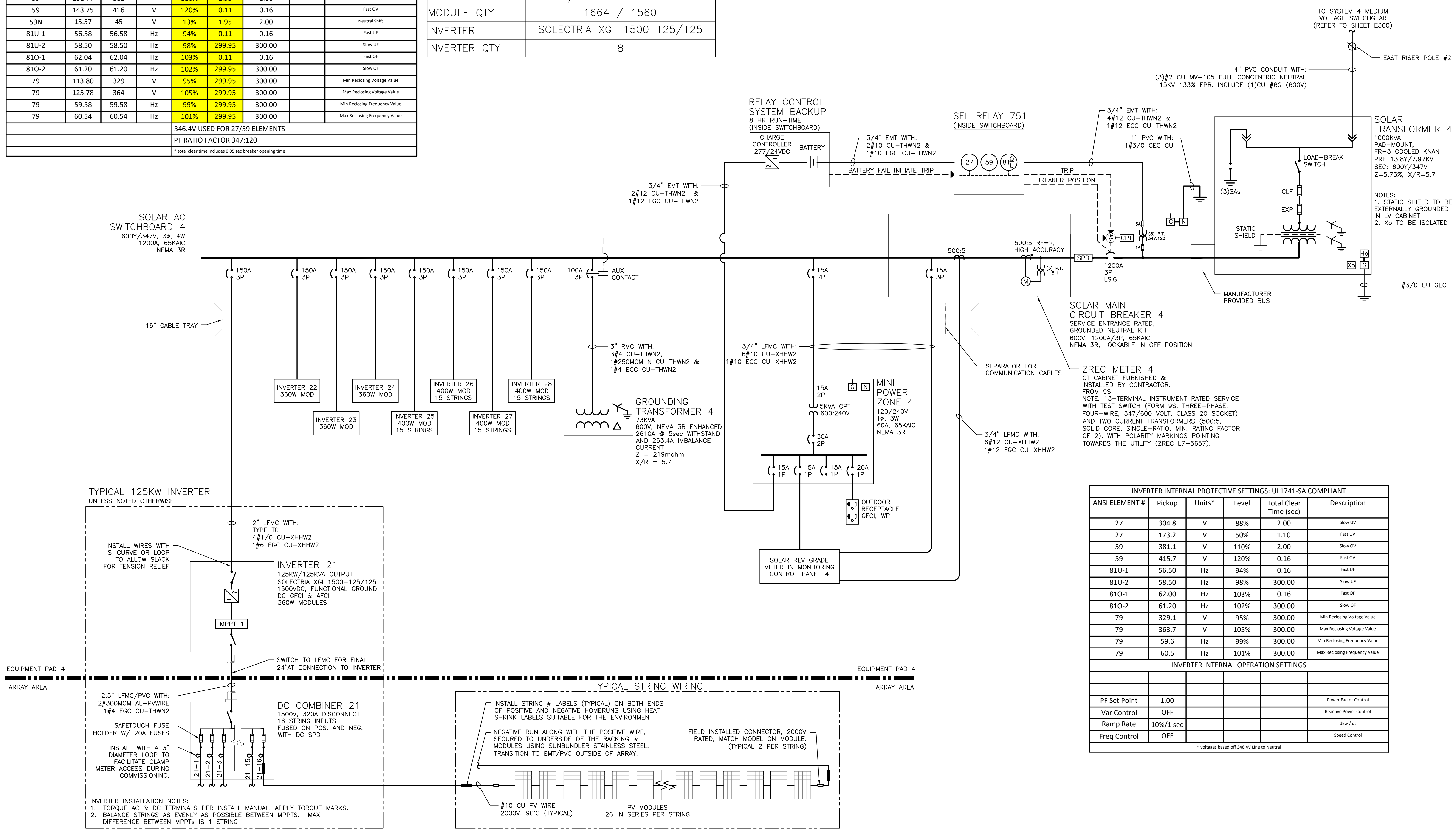
PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN SOLAR CS3U-360PB-AG/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 DEVELOPER: Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM  
 REVISION DESCRIPTION: PERMIT SET - REV 2 PERMIT SET CONCEPTUAL DESIGN  
 DATE: 04/03/2020 02/19/2020 01/31/2020  
 CT LICENSE NO. 03029282

PLOT DATE: 4/23/2020 6:20 PM

RULER IN INCHES:

EXTERNAL RELAY SETTINGS - SYSTEM 4								
ANSI ELEMENT #	Pickup	Real	Units	Level	Delay (sec)	Total Clear Time (sec)*	Curve	Description
27	105.42	305	V	88%	1.95	2.00		Slow UV
27	59.89	173	V	50%	1.05	1.10		Fast UV
27C	95.83	277	V	80%				Voltage Pickup for 51C & 51CG
59	131.77	381	V	110%	1.95	2.00		Slow OV
59	143.75	416	V	120%	0.11	0.16		Fast OV
59N	15.57	45	V	13%	1.95	2.00		Neutral Shift
81U-1	56.58	56.58	Hz	94%	0.11	0.16		Fast UF
81U-2	58.50	58.50	Hz	98%	299.95	300.00		Slow UF
81O-1	62.04	62.04	Hz	103%	0.11	0.16		Fast OF
81O-2	61.20	61.20	Hz	102%	299.95	300.00		Slow OF
79	113.80	329	V	95%	299.95	300.00		Min Reclosing Voltage Value
79	125.78	364	V	105%	299.95	300.00		Max Reclosing Voltage Value
79	59.58	59.58	Hz	99%	299.95	300.00		Min Reclosing Frequency Value
79	60.54	60.54	Hz	101%	299.95	300.00		Max Reclosing Frequency Value
346.4V USED FOR 27/59 ELEMENTS								
PT RATIO FACTOR 347:120								
* total clear time includes 0.05 sec breaker opening time								

SYSTEM 4 SUMMARY	
DC SYSTEM SIZE	1,223.040 KW
AC SYSTEM SIZE	1,000.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	1664 / 1560
INVERTER	SOLECTRIA XGI-1500 125/125
INVERTER QTY	8

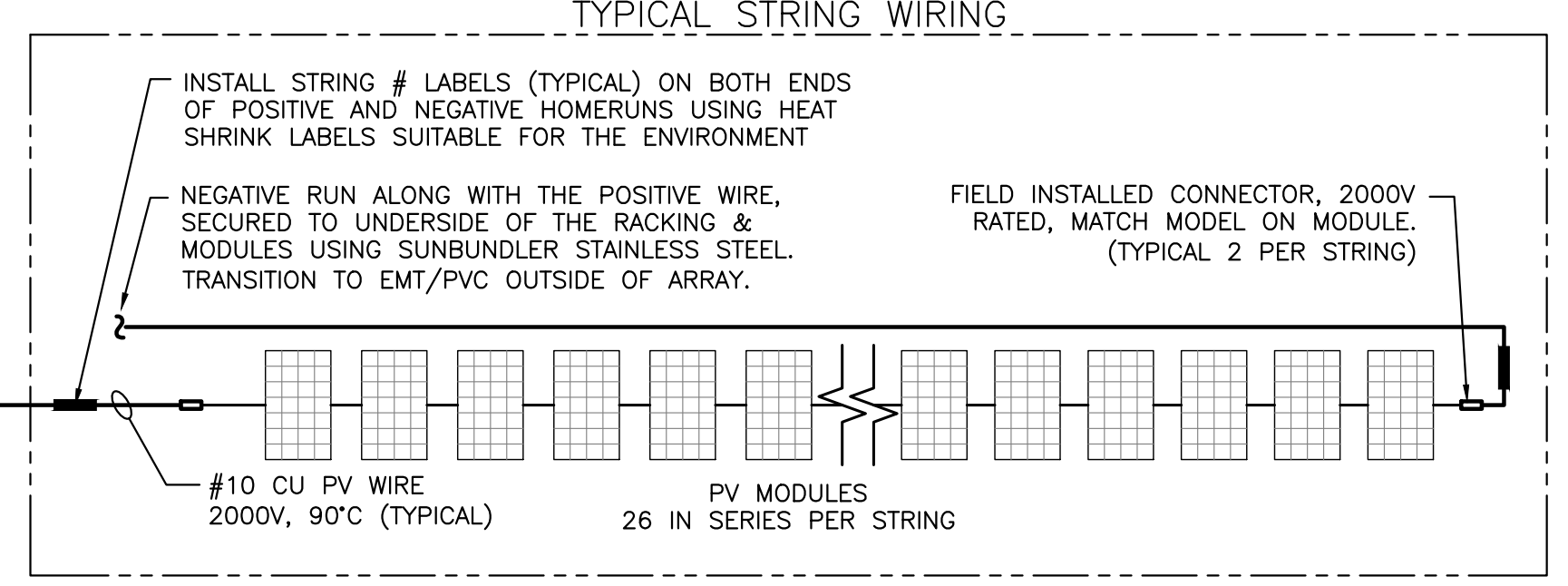
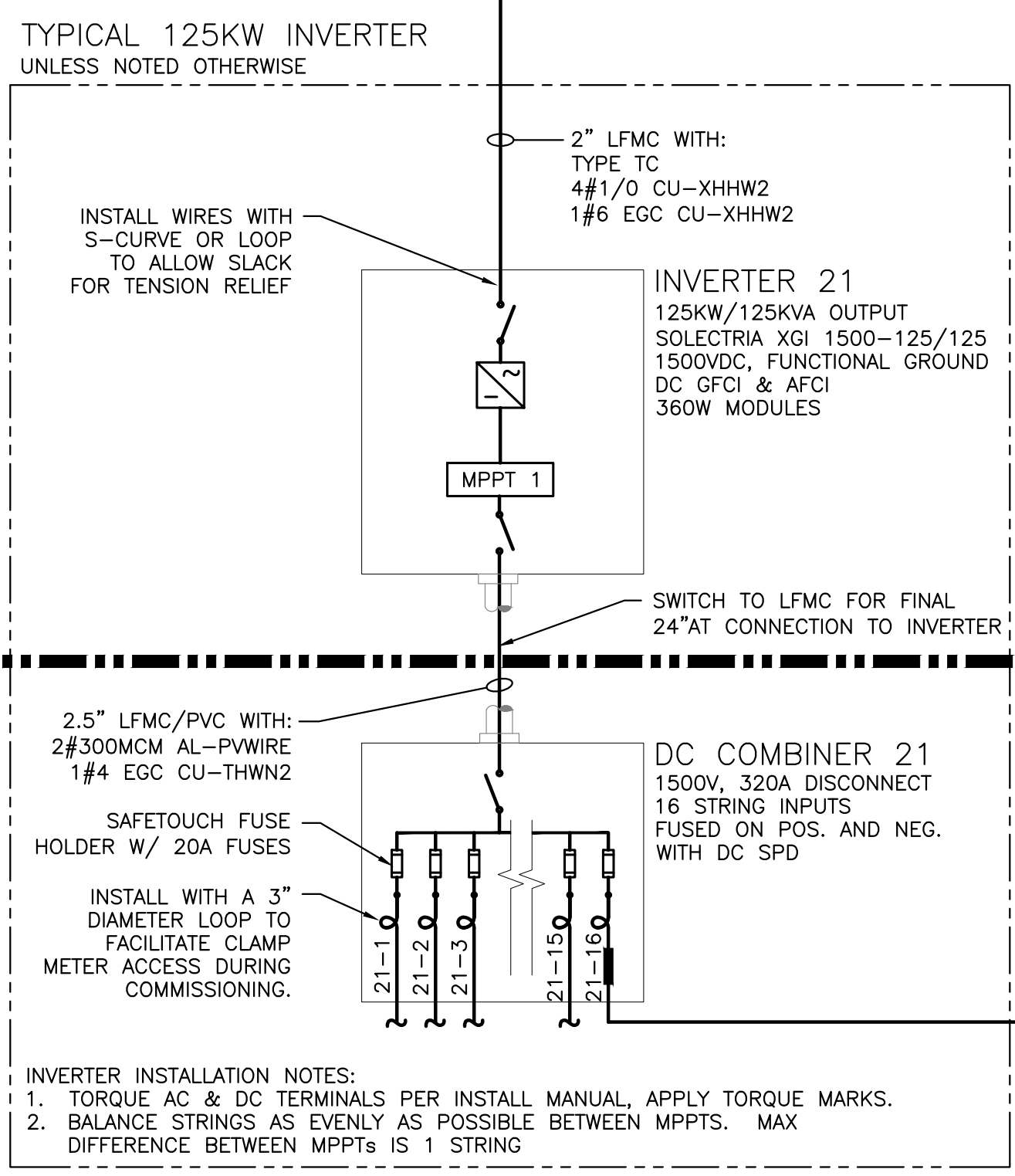


INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT					
ANSI ELEMENT #	Pickup	Units*	Level	Total Clear Time (sec)	Description
27	304.8	V	88%	2.00	Slow UV
27	173.2	V	50%	1.10	Fast UV
59	381.1	V	110%	2.00	Slow OV
59	415.7	V	120%	0.16	Fast OV
81U-1	56.50	Hz	94%	0.16	Fast UF
81U-2	58.50	Hz	98%	300.00	Slow UF
81O-1	62.00	Hz	103%	0.16	Fast OF
81O-2	61.20	Hz	102%	300.00	Slow OF
79	329.1	V	95%	300.00	Min Reclosing Voltage Value
79	363.7	V	105%	300.00	Max Reclosing Voltage Value
79	59.6	Hz	99%	300.00	Min Reclosing Frequency Value
79	60.5	Hz	101%	300.00	Max Reclosing Frequency Value

INVERTER INTERNAL OPERATION SETTINGS					
PF Set Point	1.00				Power Factor Control
Var Control	OFF				Reactive Power Control
Ramp Rate	10%/1 sec				clw / dt
Freq Control	OFF				Speed Control

\* voltages based off 346.4V Line to Neutral



1 ONE LINE DIAGRAM  
E304 SCALE: NONE

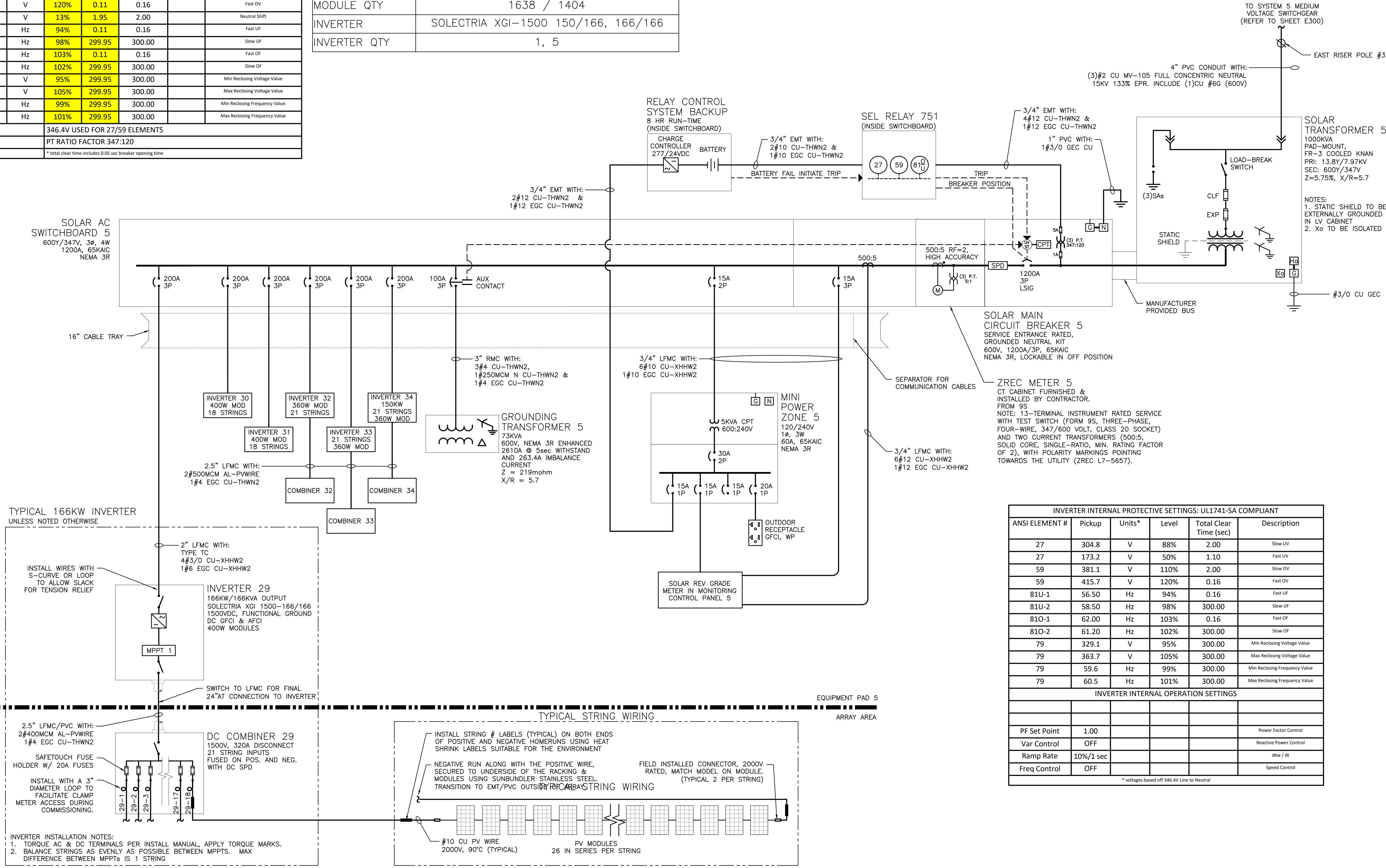
DRAWING TITLE  
ONE LINE DIAGRAM - SYSTEM 4

PROJECT	6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378
	DC SYSTEM SIZE: 4980.000 KW AC SYSTEM SIZE: CANADIAN 360W/400W MODULE TYPE: 8294/7774 MODULE QUANTITY: 1664 / 1560 ORIENTATION: 25° TILT, 0° AZIMUTH
DEVELOPER	Greenskies a Clean Focus company
DESIGNER	GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM
DATE	04/03/2020
REVISION DESCRIPTION	PERMIT SET - REV 2
DATE	02/19/2020
REVISION DESCRIPTION	PERMIT SET
DATE	01/31/2020
REVISION DESCRIPTION	CONCEPTUAL DESIGN
DATE	01/31/2020
REVISION DESCRIPTION	CONCEPTUAL DESIGN
DATE	01/31/2020
REVISION DESCRIPTION	CONCEPTUAL DESIGN

RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 PLOT DATE: 4/23/2020 6:20 PM

EXTERNAL RELAY SETTINGS - SYSTEM 5								
ANSI ELEMENT #	Pickup	Real	Units	Level	Delay (sec)	Total Clear Time (sec)*	Curve	Description
27	105.42	305	V	88%	1.95	2.00		Slow UV
27	59.89	173	V	50%	1.05	1.10		Fast UV
27C	95.83	277	V	80%				Voltage Pickup for SIC & SICG
59	131.77	381	V	110%	1.95	2.00		Slow OV
59	143.75	416	V	120%	0.11	0.16		Fast OV
59N	15.57	45	V	13%	1.95	2.00		Neutral Shift
81U-1	56.58	56.58	Hz	94%	0.11	0.16		Fast UF
81U-2	58.50	58.50	Hz	98%	299.95	300.00		Slow UF
81O-1	62.04	62.04	Hz	103%	0.11	0.16		Fast OF
81O-2	61.20	61.20	Hz	102%	299.95	300.00		Slow OF
79	113.80	329	V	95%	299.95	300.00		Min Reclosing Voltage Value
79	125.78	364	V	105%	299.95	300.00		Max Reclosing Voltage Value
79	59.58	59.58	Hz	99%	299.95	300.00		Min Reclosing Frequency Value
79	60.54	60.54	Hz	101%	299.95	300.00		Max Reclosing Frequency Value
346.4V USED FOR 27/59 ELEMENTS								
PT RATIO FACTOR 347:120								
* total clear time includes 0.05 sec breaker opening time								

SYSTEM 5 SUMMARY	
DC SYSTEM SIZE	1,151.280 KW
AC SYSTEM SIZE	980.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	1638 / 1404
INVERTER	SOLECTRIA XGI-1500 150/166, 166/166
INVERTER QTY	1, 5



INVERTER INTERNAL PROTECTIVE SETTINGS: UL1741-SA COMPLIANT					
ANSI ELEMENT #	Pickup	Units*	Level	Total Clear Time (sec)	Description
27	304.8	V	88%	2.00	Slow UV
27	173.2	V	50%	1.10	Fast UV
59	381.1	V	110%	2.00	Slow OV
59	415.7	V	120%	0.16	Fast OV
81U-1	56.50	Hz	94%	0.16	Fast UF
81U-2	58.50	Hz	98%	300.00	Slow UF
81O-1	62.00	Hz	103%	0.16	Fast OF
81O-2	61.20	Hz	102%	300.00	Slow OF
79	329.1	V	95%	300.00	Min Reclosing Voltage Value
79	363.7	V	105%	300.00	Max Reclosing Voltage Value
79	59.6	Hz	99%	300.00	Min Reclosing Frequency Value
79	60.5	Hz	101%	300.00	Max Reclosing Frequency Value

INVERTER INTERNAL OPERATION SETTINGS		
PF Set Point	1.00	Power Factor Control
Var Control	OFF	Reactive Power Control
Ramp Rate	10%/1 sec	dV/dt
Freq Control	OFF	Speed Control

\* voltages based off 346.4V Line to Neutral

1 ONE LINE DIAGRAM  
E305 SCALE: NONE

DRAWING TITLE  
ONE LINE DIAGRAM - SYSTEM 5  
DRAWING #  
E305

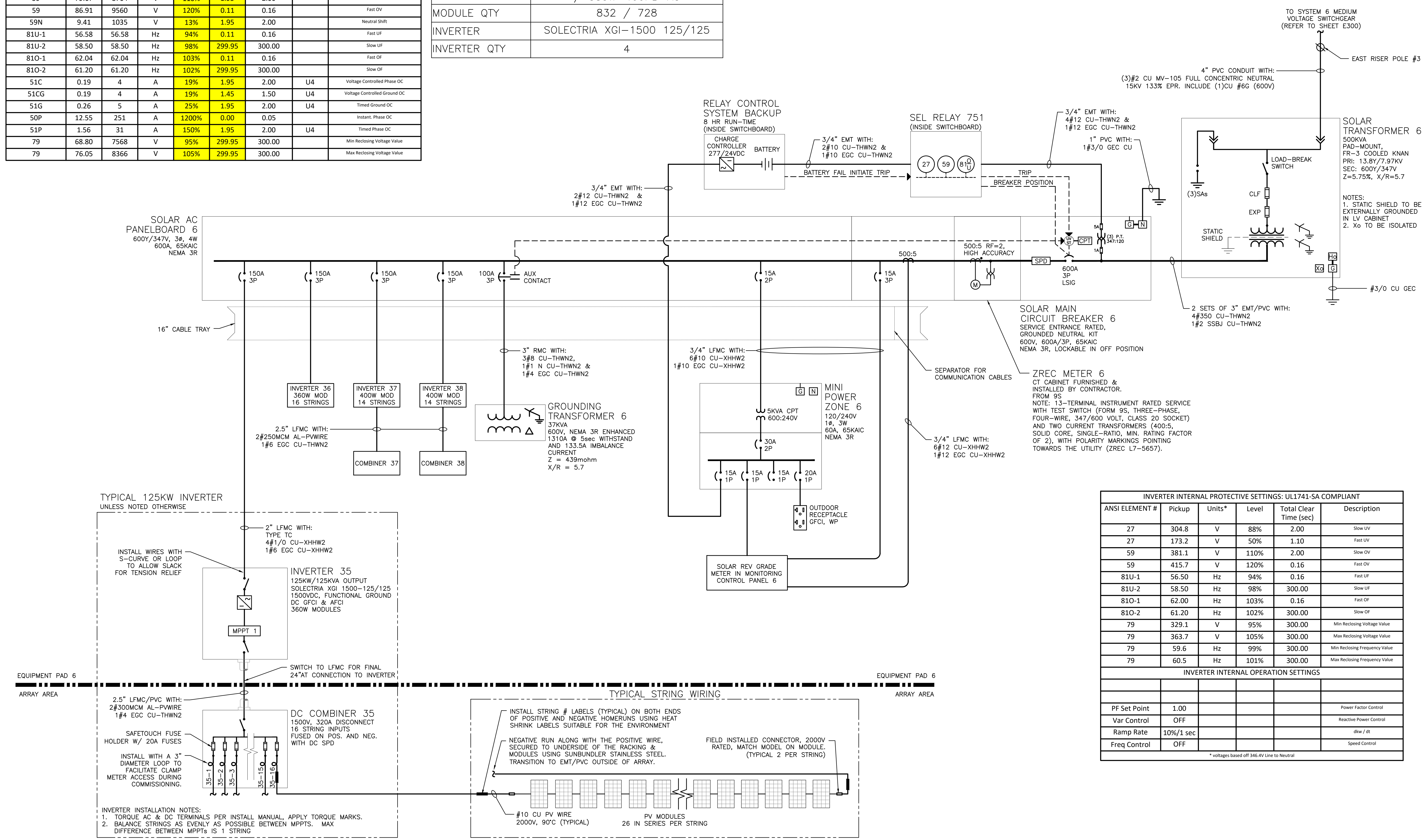
REVISION DESCRIPTION: PERMIT SET - REV 2  
 DATE: 04/03/2020  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 PROJECT: STONINGTON TAUGWONK  
 35 TAUGWONK SPUR ROAD  
 STONINGTON, CT 06378  
 PROJECT # PPE 00083  
 DEVELOPER: Greenskies  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 CT LICENSE NO. 06929282

PLOT DATE: 4/23/2020 6:20 PM

RULER IN INCHES:

EXTERNAL RELAY SETTINGS - SYSTEM 6								
ANSI ELEMENT #	Pickup	Real	Units	Level	Delay (sec)	Total Clear Time (sec)*	Curve	Description
27	63.73	7010	V	88%	1.95	2.00		Slow UV
27	36.21	3983	V	50%	1.05	1.10		Fast UV
27C	57.94	6373	V	80%				Voltage Pickup for S1C & S1CG
59	79.67	8764	V	110%	1.95	2.00		Slow OV
59	86.91	9560	V	120%	0.11	0.16		Fast OV
59N	9.41	1035	V	13%	1.95	2.00		Neutral Shift
81U-1	56.58	56.58	Hz	94%	0.11	0.16		Fast UF
81U-2	58.50	58.50	Hz	98%	299.95	300.00		Slow UF
81O-1	62.04	62.04	Hz	103%	0.11	0.16		Fast OF
81O-2	61.20	61.20	Hz	102%	299.95	300.00		Slow OF
51C	0.19	4	A	19%	1.95	2.00	U4	Voltage Controlled Phase OC
51CG	0.19	4	A	19%	1.45	1.50	U4	Voltage Controlled Ground OC
51G	0.26	5	A	25%	1.95	2.00	U4	Timed Ground OC
50P	12.55	251	A	1200%	0.00	0.05		Instant Phase OC
51P	1.56	31	A	150%	1.95	2.00	U4	Timed Phase OC
79	68.80	7568	V	95%	299.95	300.00		Min Reclosing Voltage Value
79	76.05	8366	V	105%	299.95	300.00		Max Reclosing Voltage Value

SYSTEM 6 SUMMARY	
DC SYSTEM SIZE	590.720 KW
AC SYSTEM SIZE	500.000 KW
MODULE	CANADIAN SOLAR CS3U-360PB-AG / CS3W-400PB-AG
MODULE QTY	832 / 728
INVERTER	SOLECTRIA XGI-1500 125/125
INVERTER QTY	4



1 ONE LINE DIAGRAM  
E306 SCALE: NONE

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN SOLAR 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 DEVELOPER: Greenskies a Clean Focus company  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM  
 PURE POWER ENERGY SOLUTIONS  
 5 MARINE VIEW PLAZA, HOBOKEN, NJ 07030 WWW.PUREPOWER.COM  
 PERMIT SET - REV 2  
 PERMIT SET  
 CONCEPTUAL DESIGN  
 DATE: 04/03/2020  
 02/19/2020  
 01/31/2020  
 REVISION DESCRIPTION  
 PM / ENG / CHK  
 BX / AD / RI  
 BX / AD / RI  
 BX / SK / RI  
 CT LICENSE NO. 0082982



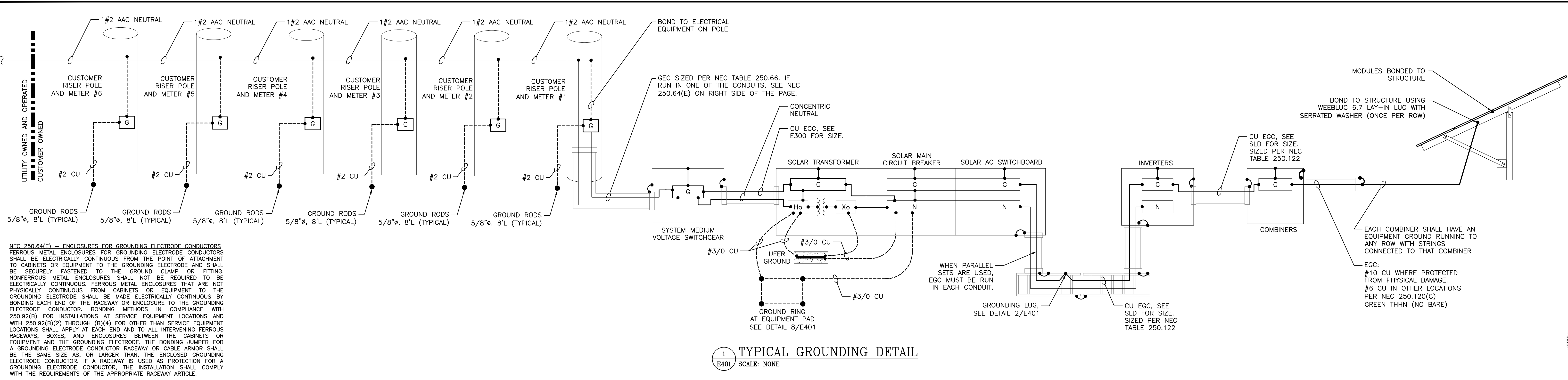






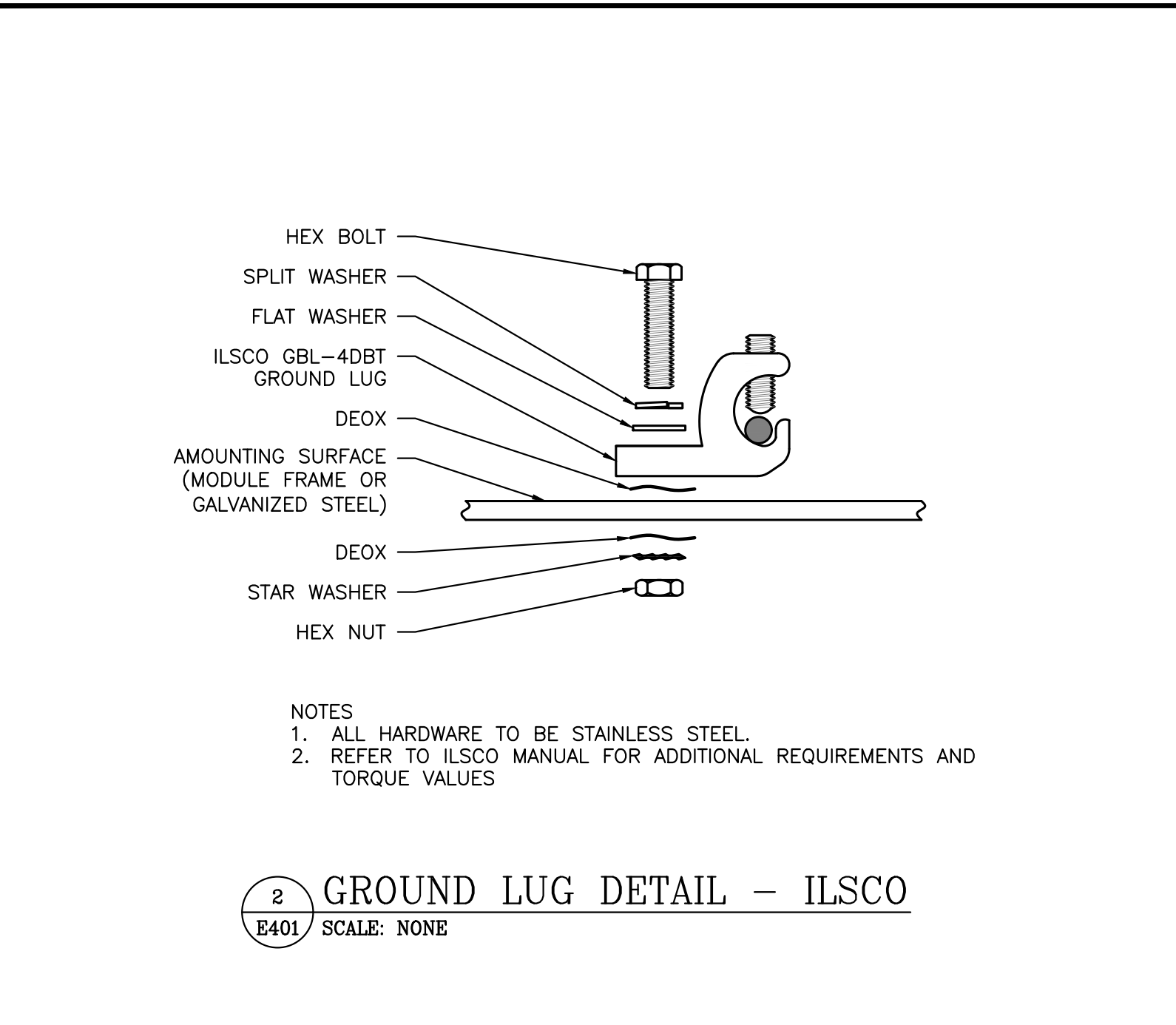


RULER IN INCHES: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18  
 PLOT DATE: 4/23/2020 6:20 PM



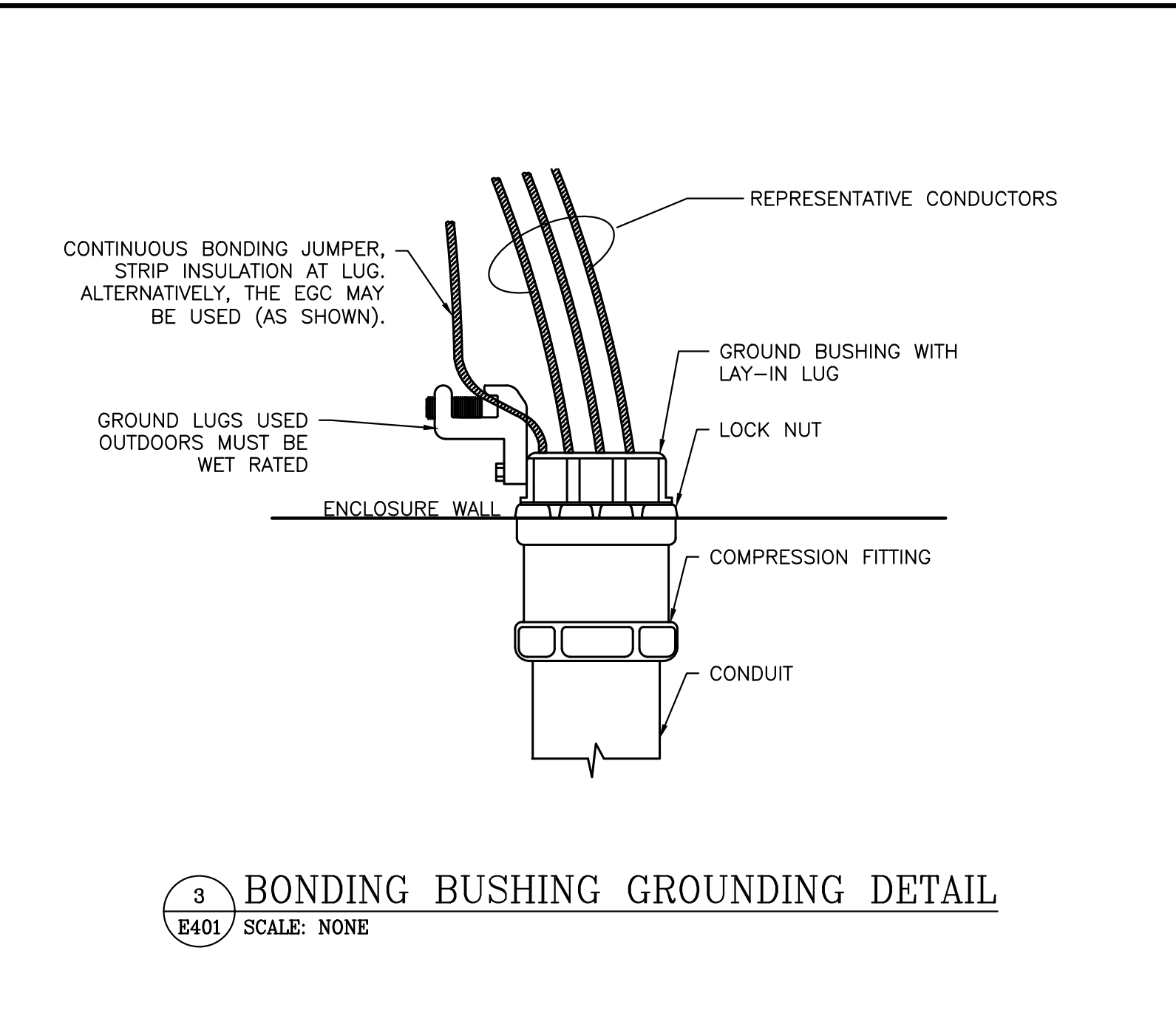
**NEC 250.64(F) - ENCLOSURES FOR GROUNDING ELECTRODE CONDUCTORS**  
 FERROUS METAL ENCLOSURES FOR GROUNDING ELECTRODE CONDUCTORS SHALL BE ELECTRICALLY CONTINUOUS FROM THE POINT OF ATTACHMENT TO CABINETS OR EQUIPMENT TO THE GROUNDING ELECTRODE AND SHALL BE SECURELY FASTENED TO THE GROUND CLAMP OR FITTING. NONFERROUS METAL ENCLOSURES SHALL NOT BE REQUIRED TO BE ELECTRICALLY CONTINUOUS. FERROUS METAL ENCLOSURES THAT ARE NOT PHYSICALLY CONTINUOUS FROM CABINETS OR EQUIPMENT TO THE GROUNDING ELECTRODE SHALL BE MADE ELECTRICALLY CONTINUOUS BY BONDING EACH END OF THE RACEWAY OR ENCLOSURE TO THE GROUNDING ELECTRODE CONDUCTOR. BONDING METHODS IN COMPLIANCE WITH 250.92(B) FOR INSTALLATIONS AT SERVICE EQUIPMENT LOCATIONS AND WITH 250.92(B)(2) THROUGH (B)(4) FOR OTHER THAN SERVICE EQUIPMENT LOCATIONS SHALL APPLY AT EACH END AND TO ALL INTERVENING FERROUS RACEWAYS, BOXES, AND ENCLOSURES BETWEEN THE CABINETS OR EQUIPMENT AND THE GROUNDING ELECTRODE. THE BONDING JUMPER FOR A GROUNDING ELECTRODE CONDUCTOR RACEWAY OR CABLE ARMOR SHALL BE THE SAME SIZE AS, OR LARGER THAN, THE ENCLOSED GROUNDING ELECTRODE CONDUCTOR. IF A RACEWAY IS USED AS PROTECTION FOR A GROUNDING ELECTRODE CONDUCTOR, THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE APPROPRIATE RACEWAY ARTICLE.

**1 TYPICAL GROUNDING DETAIL**  
 E401 SCALE: NONE

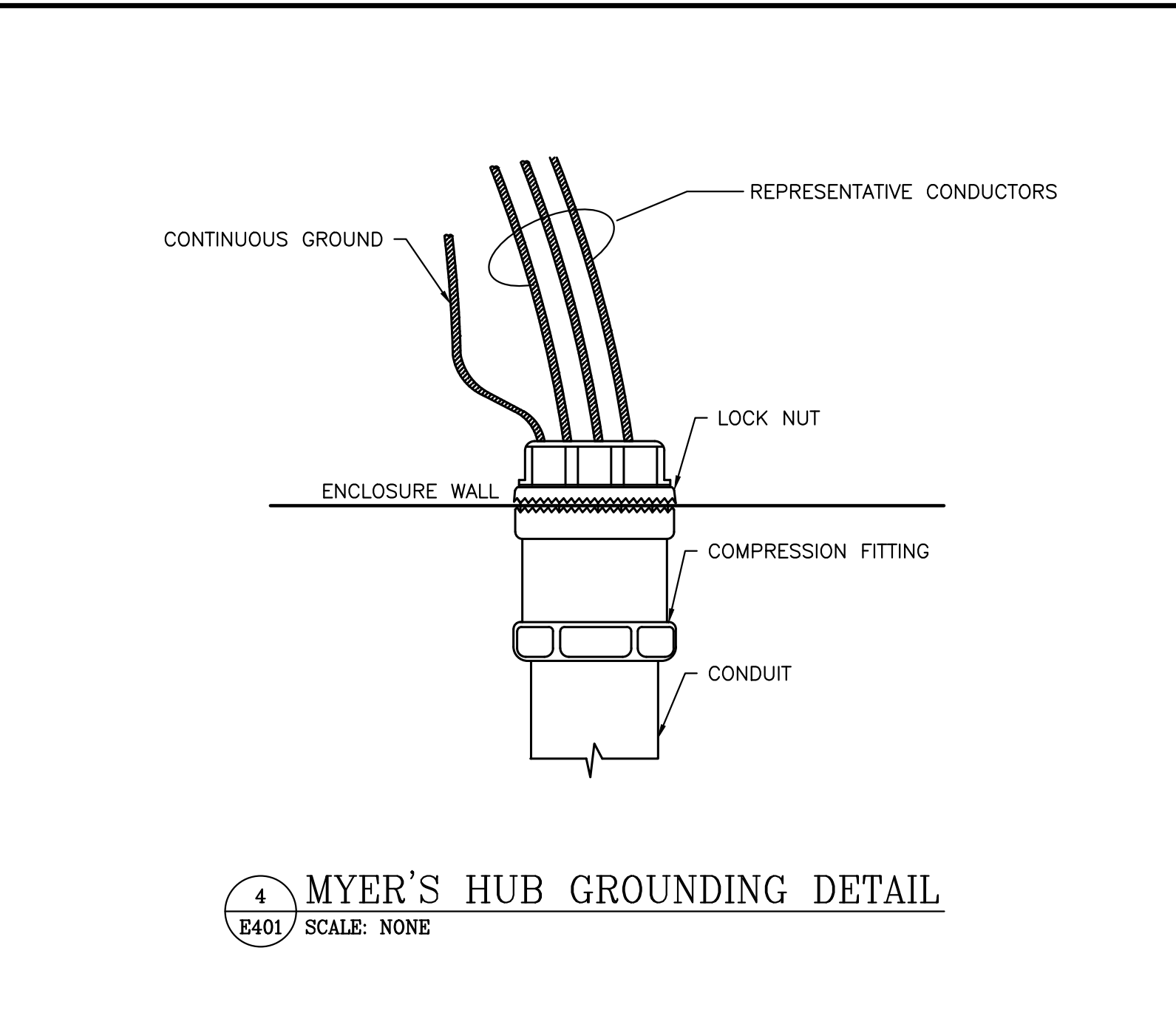


**NOTES**  
 1. ALL HARDWARE TO BE STAINLESS STEEL.  
 2. REFER TO ILSCO MANUAL FOR ADDITIONAL REQUIREMENTS AND TORQUE VALUES

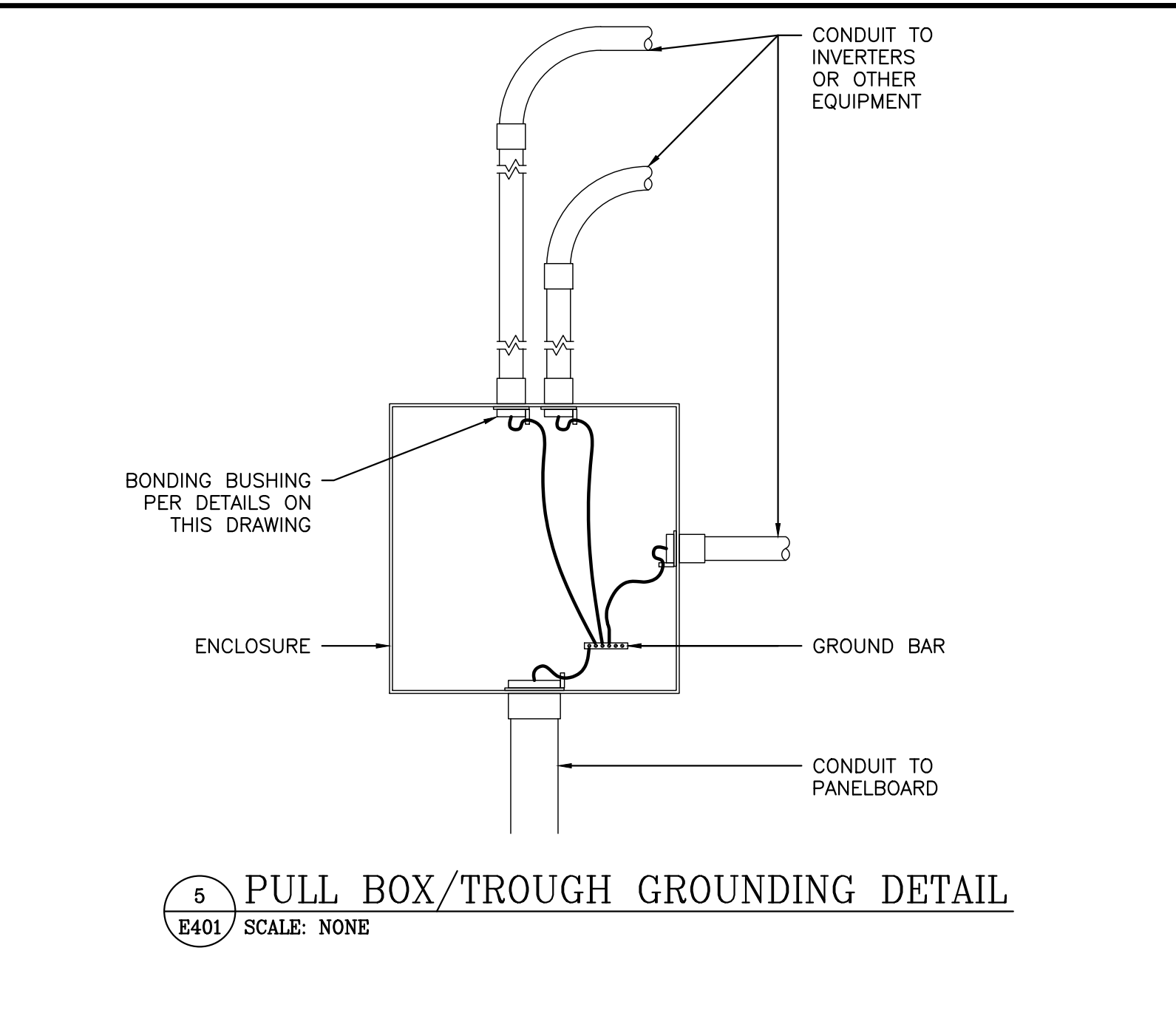
**2 GROUND LUG DETAIL - ILSCO**  
 E401 SCALE: NONE



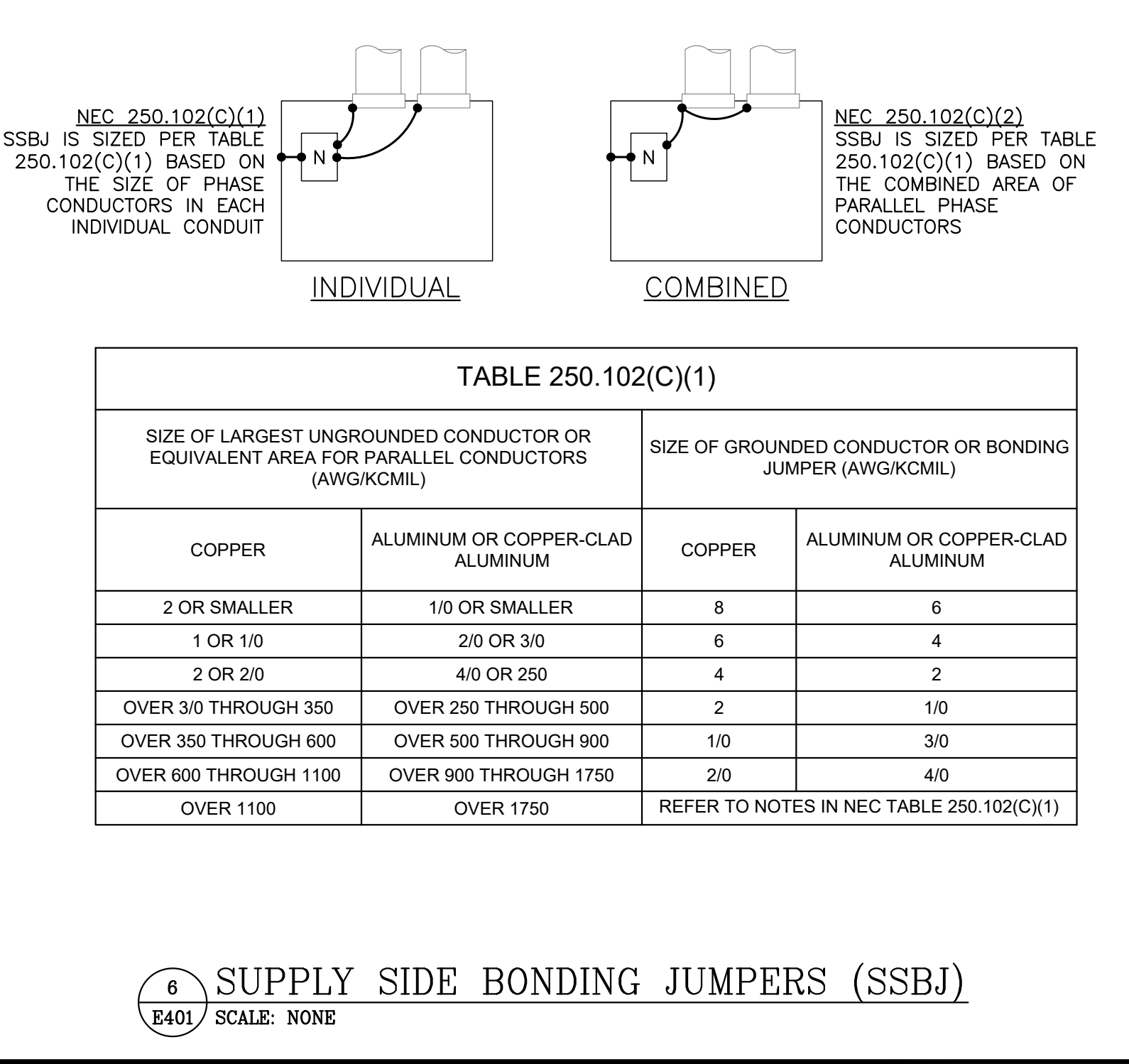
**3 BONDING BUSHING GROUNDING DETAIL**  
 E401 SCALE: NONE



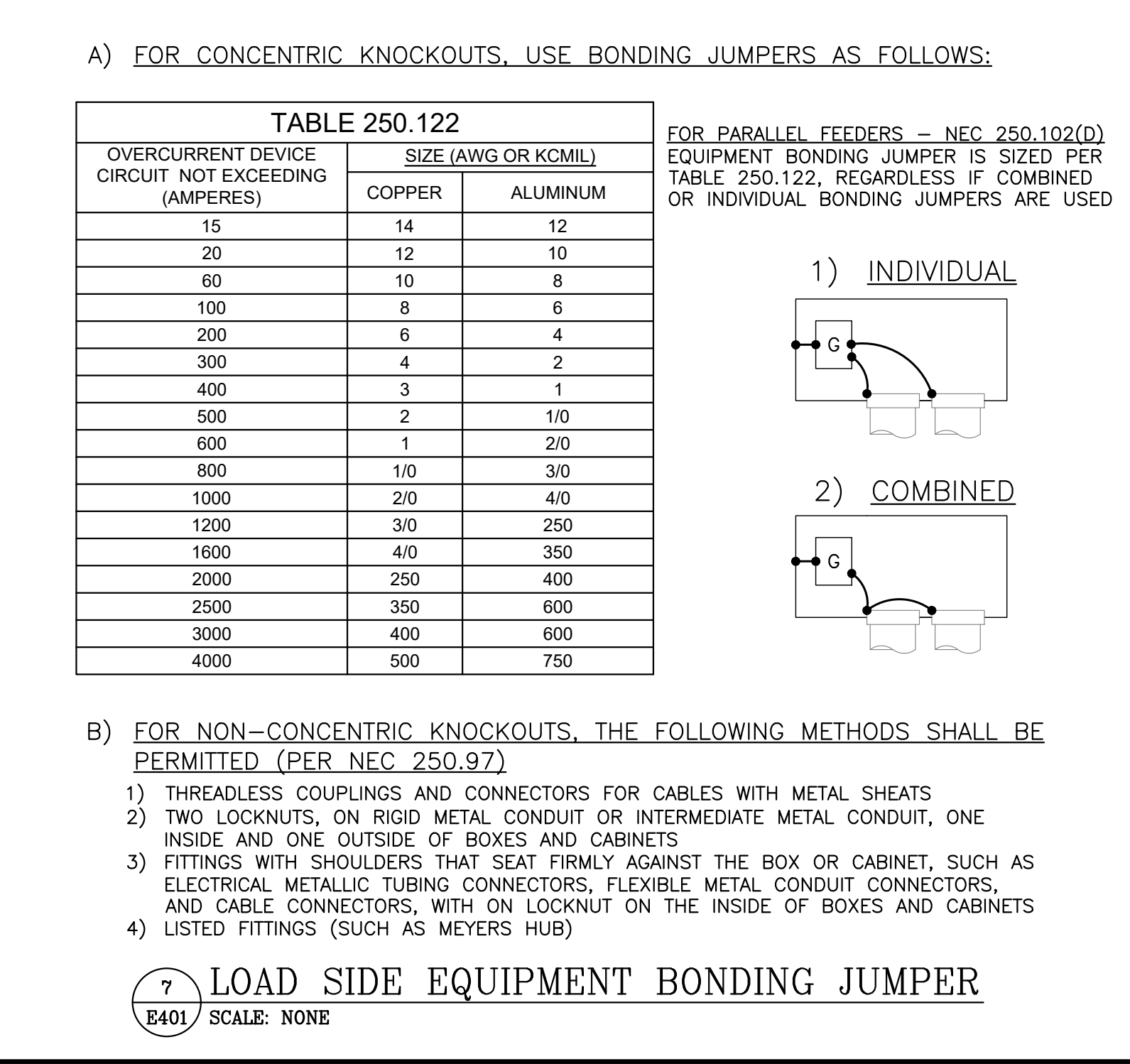
**4 MYER'S HUB GROUNDING DETAIL**  
 E401 SCALE: NONE



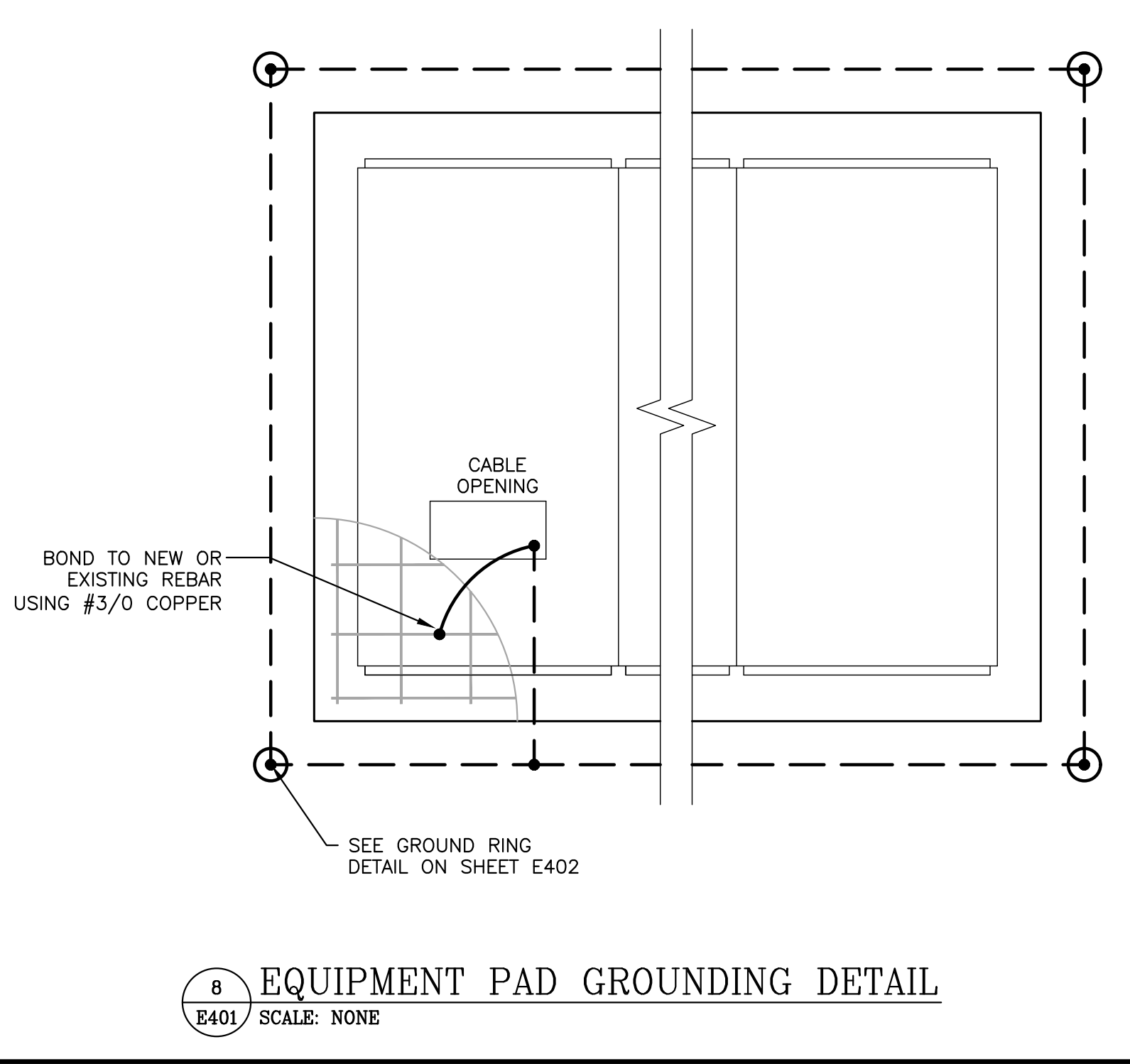
**5 PULL BOX/TROUGH GROUNDING DETAIL**  
 E401 SCALE: NONE



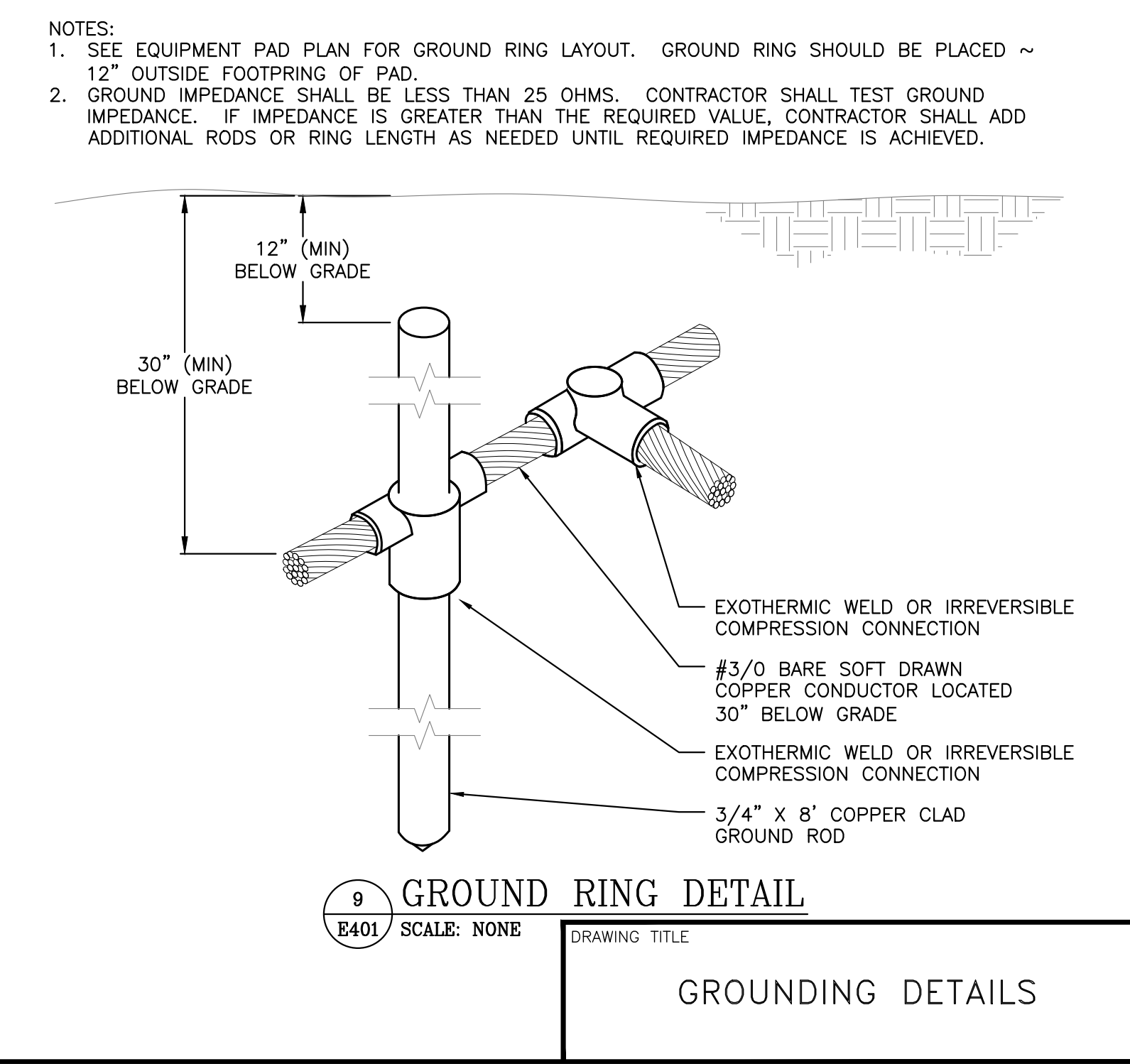
**6 SUPPLY SIDE BONDING JUMPERS (SSBJ)**  
 E401 SCALE: NONE



**7 LOAD SIDE EQUIPMENT BONDING JUMPER**  
 E401 SCALE: NONE



**8 EQUIPMENT PAD GROUNDING DETAIL**  
 E401 SCALE: NONE



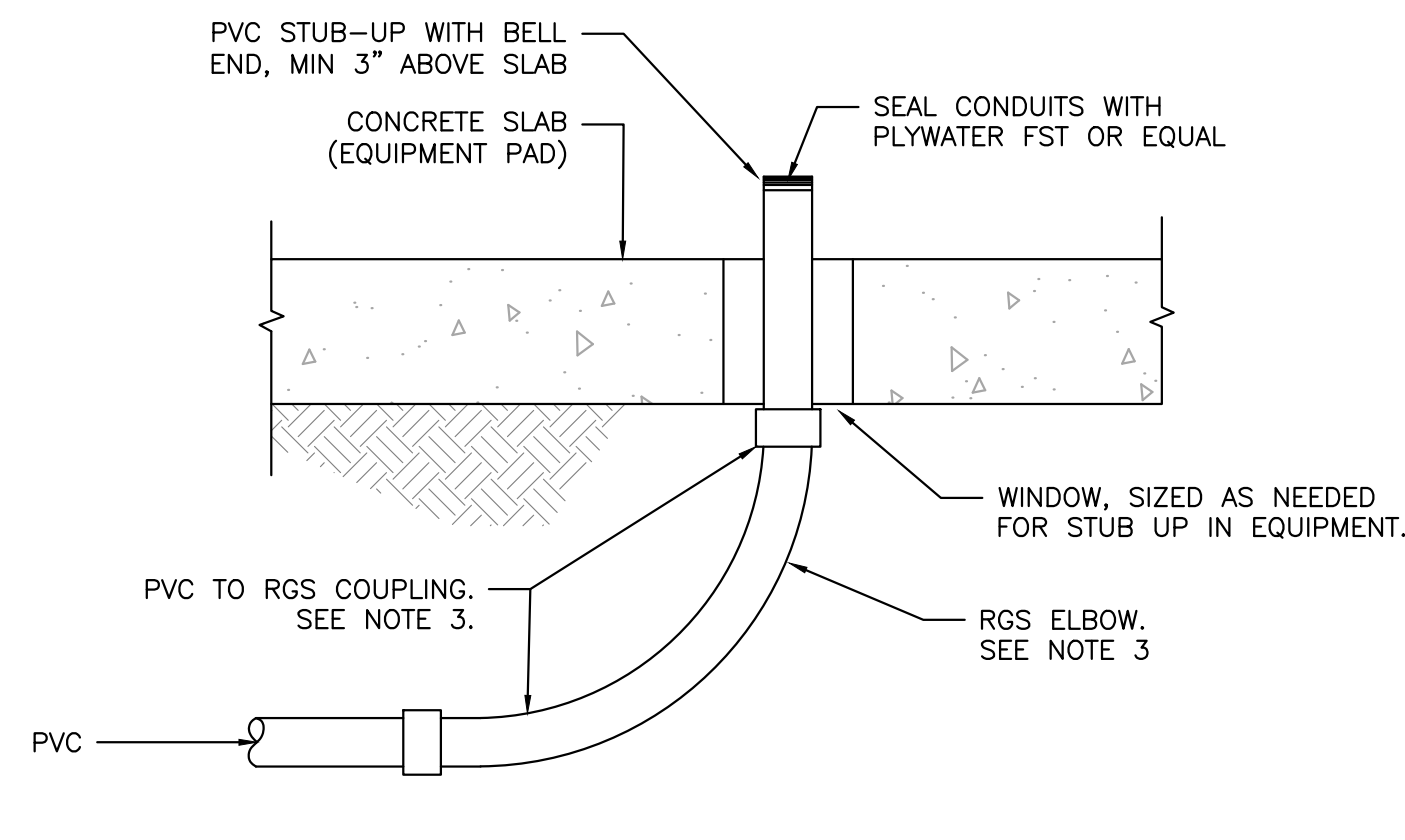
**9 GROUND RING DETAIL**  
 E401 SCALE: NONE

GROUNDING DETAILS

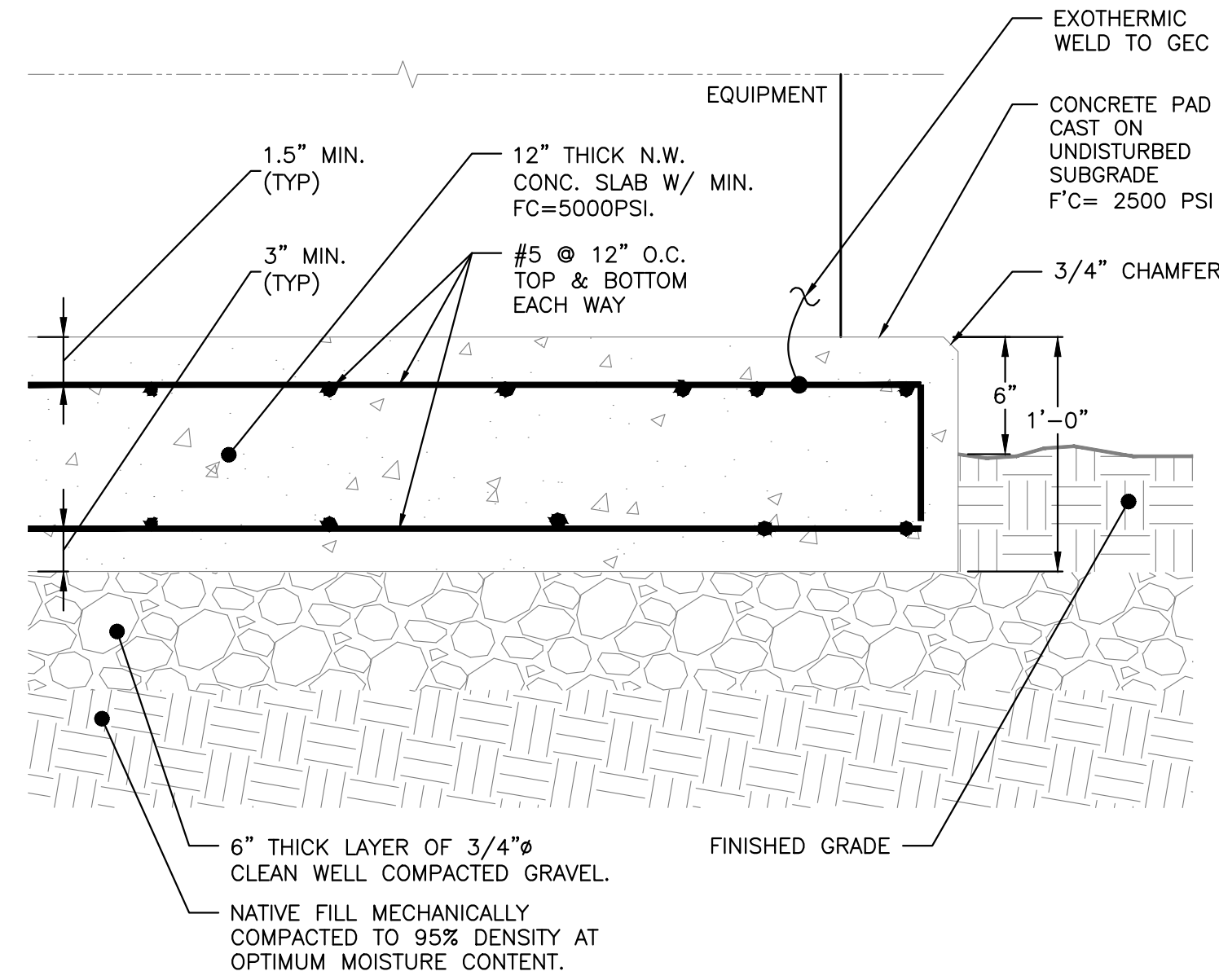
PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DRAWING #: E401  
 DEVELOPER: GREENSKIES 180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM  
 a Clean Focus company  
 DC SYSTEM SIZE: 4980.000 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION: 25° TILT, 0° AZIMUTH  
 PPE: 00083  
 PAGE SIZE: 36" x 24"  
 PROJECT #: PPE 00083  
 REVISION DESCRIPTION: DATE  
 PERMIT SET - REV. 1 03/13/2020  
 PERMIT SET 02/19/2020  
 CT LICENSE NO. 03029282

PLD DATE: 4/2/2020 6:20 PM  
RULER IN INCHES: 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0

- NOTES:**
- INITIALLY INSTALL COUPLING CAP TO PREVENT DAMAGE TO STUB-UP UNTIL GEAR IS SET.
  - INSTALL ROUNDED FITTING BEFORE PULLING CABLES TO AVOID DAMAGE TO CABLES.
  - RMC ELBOW ONLY REQUIRED ON ONE SIDE OF EACH PULL NEAREST THE LOCATION OF THE PULLING MACHINE. ON OPPOSITE SIDE, PVC SCH80 ELBOWS ARE PERMITTED.

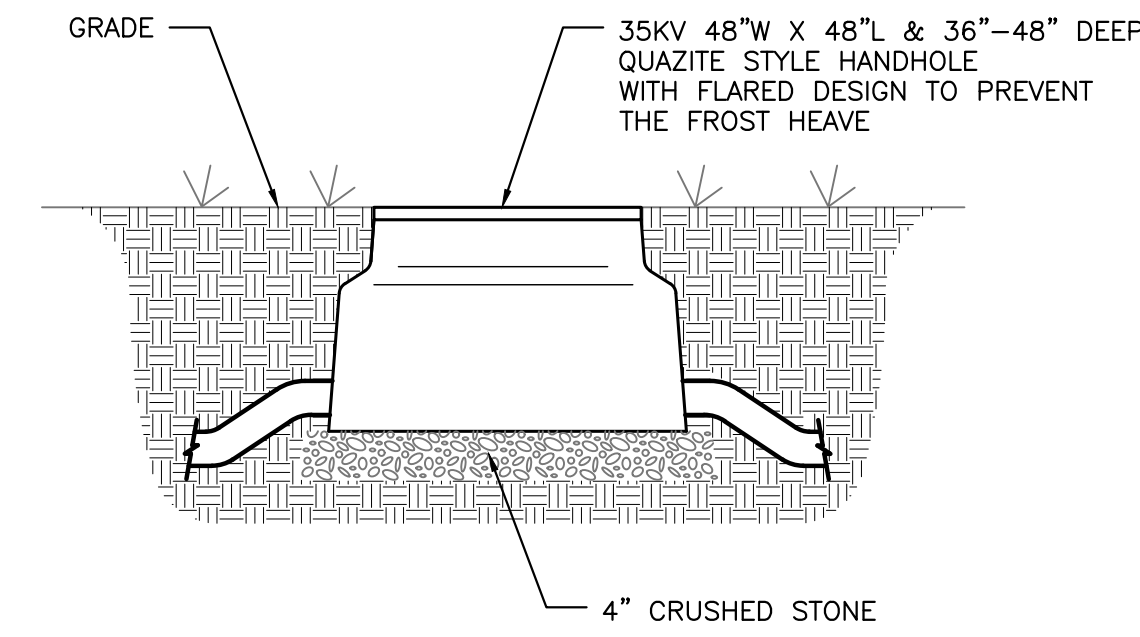


**1 EQUIPMENT PAD STUB-UP DETAIL**  
E402 SCALE: NONE



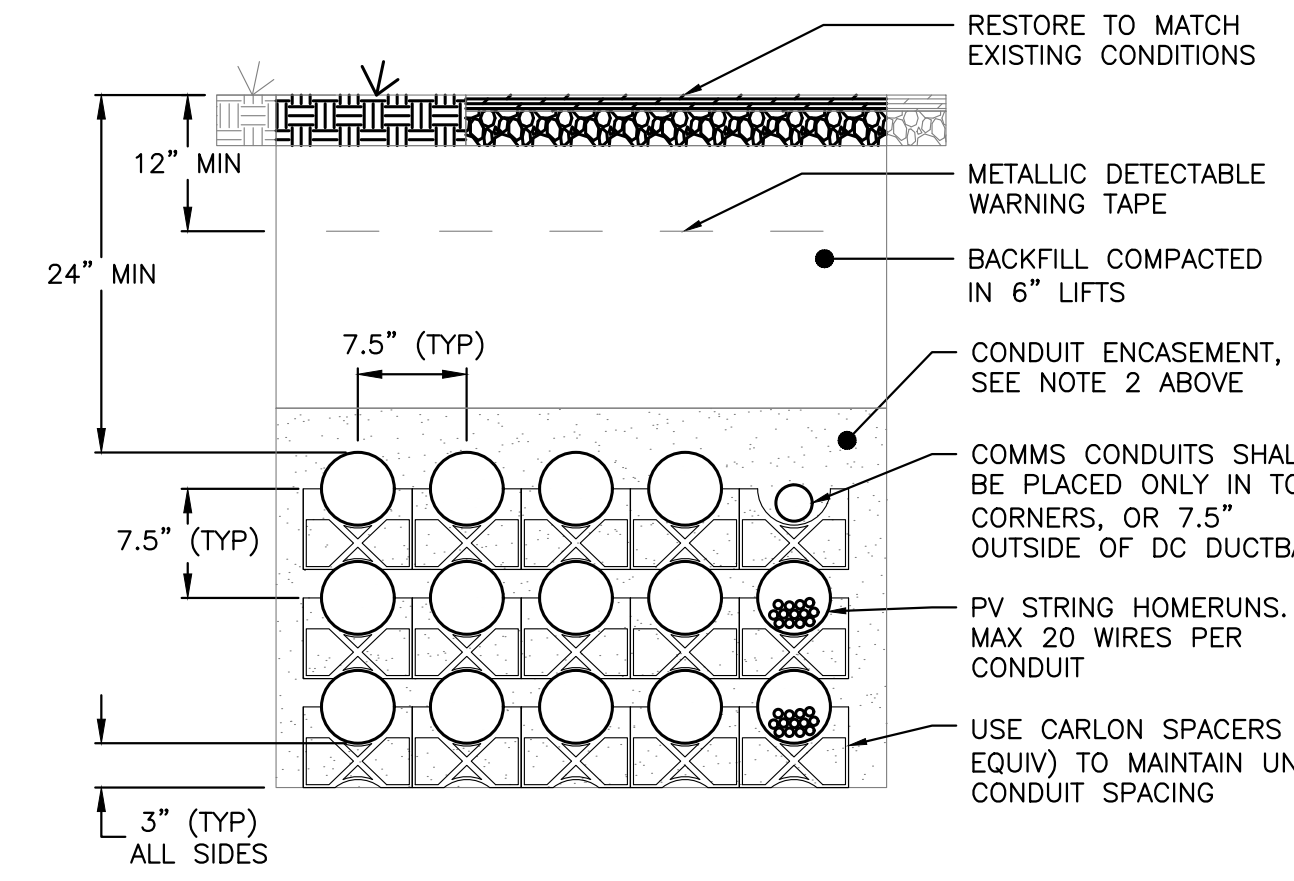
**2 CONCRETE PAD DETAIL**  
E402 SCALE: NONE

- NOTES:**
- HANDHOLES TO BE PLACED AS NECESSARY
  - SEPARATE HANDHOLES REQUIRED FOR DATA AND POWER ACCESS
  - LOCATIONS OF HANDHOLES TO BE DETERMINED IN FIELD BY CONTRACTOR
  - HANDHOLES SHALL BE UL LISTED, GASKETED, SUITABLE FOR TIER 15 LOADING.
  - IN AREAS OF VEHICLE TRAFFIC, HANDHOLES SHALL BE SUITABLE FOR H2O LOADING.
  - HANDHOLES SHALL BE PROVIDED WITH BASES AND SS HEX BOLTS.

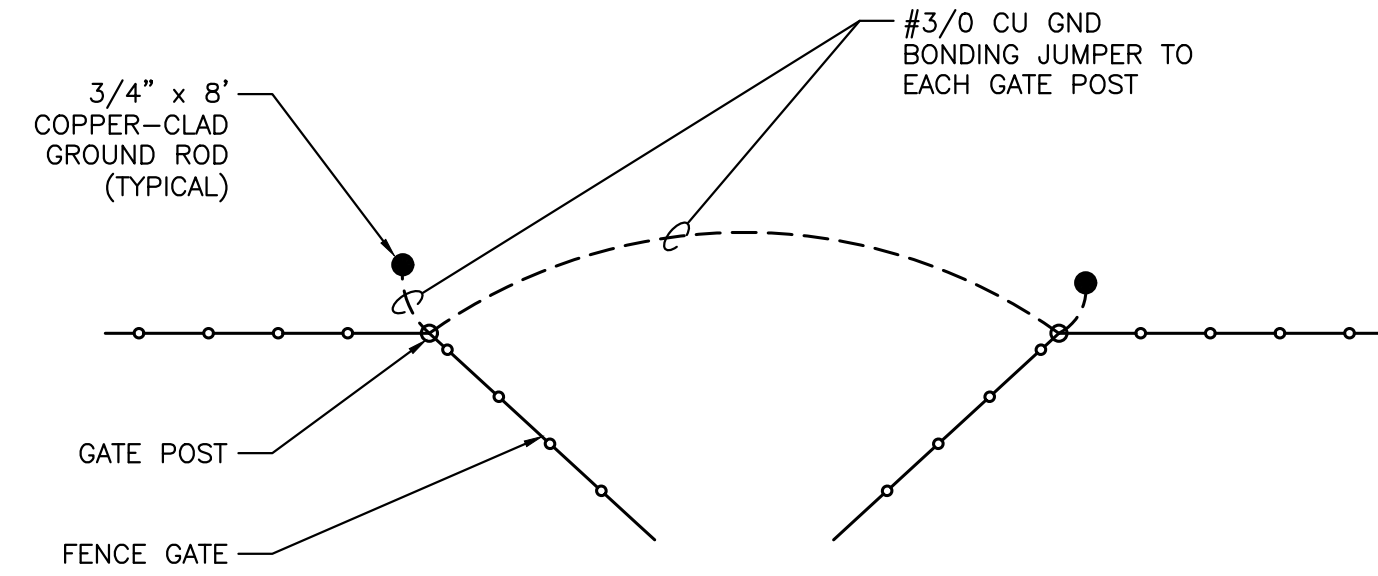


**3 HANDHOLE DETAIL**  
E402 SCALE: NONE

- NOTES:**
- ALL UNDERGROUND CONDUIT SHALL BE PVC AND TRANSITION TO RMC FOR ELBOW. RMC ELBOW DOES NOT NEED TO BE BONDED IF THE ENTIRE ELBOW IS >= 18" DEEP (NEC 250.86 EXCEPTION 3)
  - UNDER ROADS AND PARKING AREAS ENCASUREMENT SHALL BE 3000 PSI CONCRETE. UNDER GRASSY AREAS NOT SUBJECT TO VEHICULAR TRAFFIC ENCASUREMENT SHALL BE SAND.
  - CALL BEFORE YOU DIG, DIAL 811 TO BE CONNECTED TO THE LOCAL ON-CALL CENTER. YOU MUST CALL AT LEAST 48 HOURS BEFORE EXCAVATING
  - IF DUCTBANK SLOPES SUCH THAT ANY PART OF THE DUCTBANK IS ABOVE STUB UP ELEVATION, INCLUDE HAND HOLE WITH GRAVEL BASE TO ALLOW DRAINAGE.

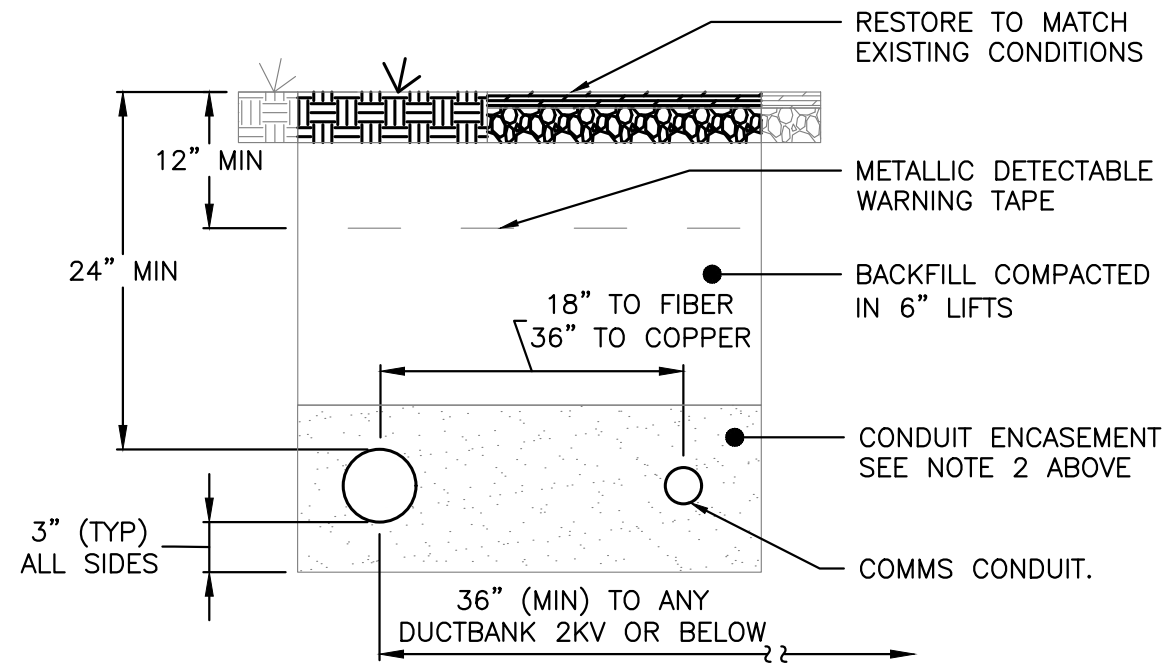


**4 TYPICAL 1500VDC DUCTBANK DETAIL**  
E402 SCALE: NONE

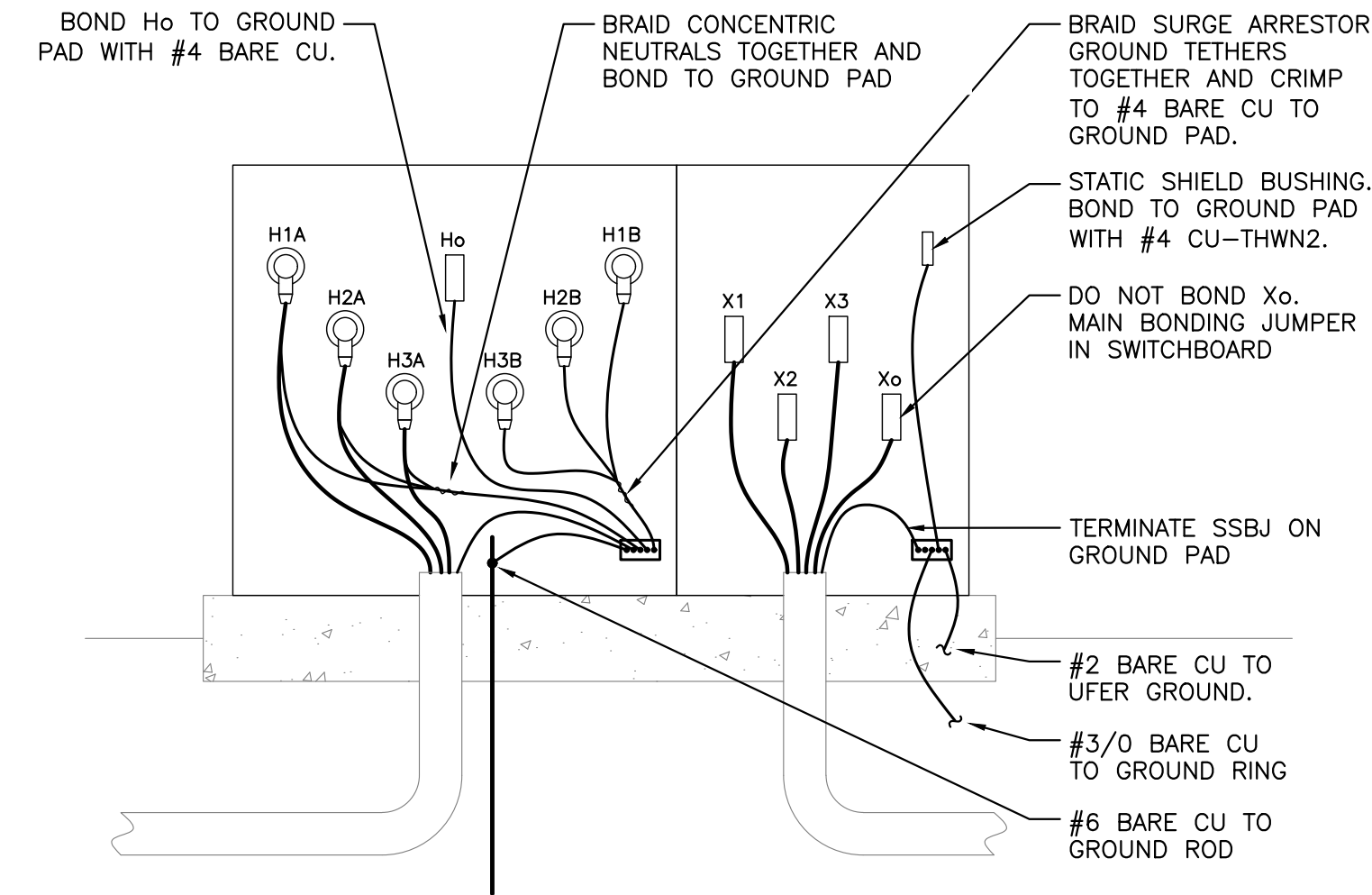


**5 FENCE GATE GROUNDING DETAIL**  
E402 SCALE: NONE

- NOTES:**
- ALL UNDERGROUND CONDUIT SHALL BE PVC AND TRANSITION TO RMC FOR ELBOW. RMC ELBOW DOES NOT NEED TO BE BONDED IF THE ENTIRE ELBOW IS >= 18" DEEP (NEC 250.86 EXCEPTION 3)
  - UNDER ROADS AND PARKING AREAS ENCASUREMENT SHALL BE 3000 PSI CONCRETE. UNDER GRASSY AREAS NOT SUBJECT TO VEHICULAR TRAFFIC ENCASUREMENT SHALL BE SAND.
  - CALL BEFORE YOU DIG, DIAL 811 TO BE CONNECTED TO THE LOCAL ON-CALL CENTER. YOU MUST CALL AT LEAST 48 HOURS BEFORE EXCAVATING.
  - IF DUCTBANK SLOPES SUCH THAT ANY PART OF THE DUCTBANK IS ABOVE STUB UP ELEVATION, INCLUDE HAND HOLE WITH GRAVEL BASE TO ALLOW DRAINAGE.

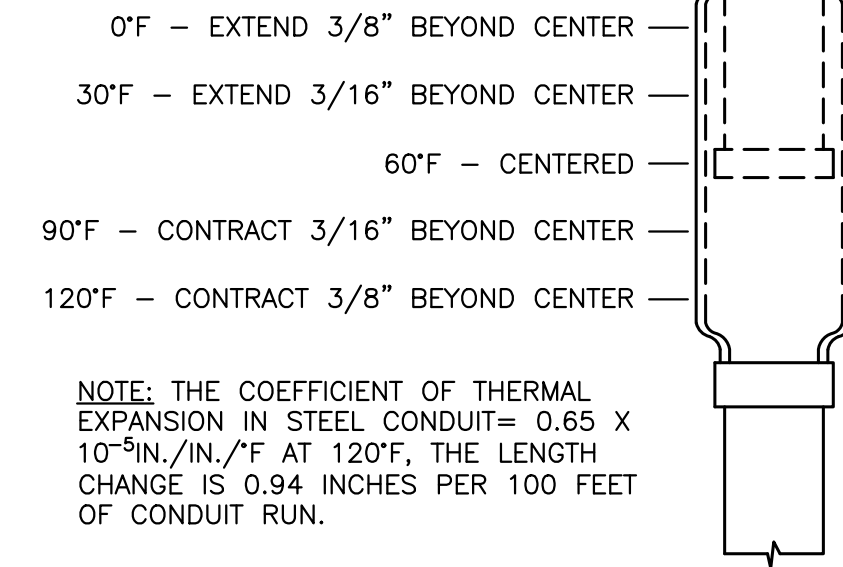


**6 TYPICAL MV DUCTBANK DETAIL**  
E402 SCALE: NONE

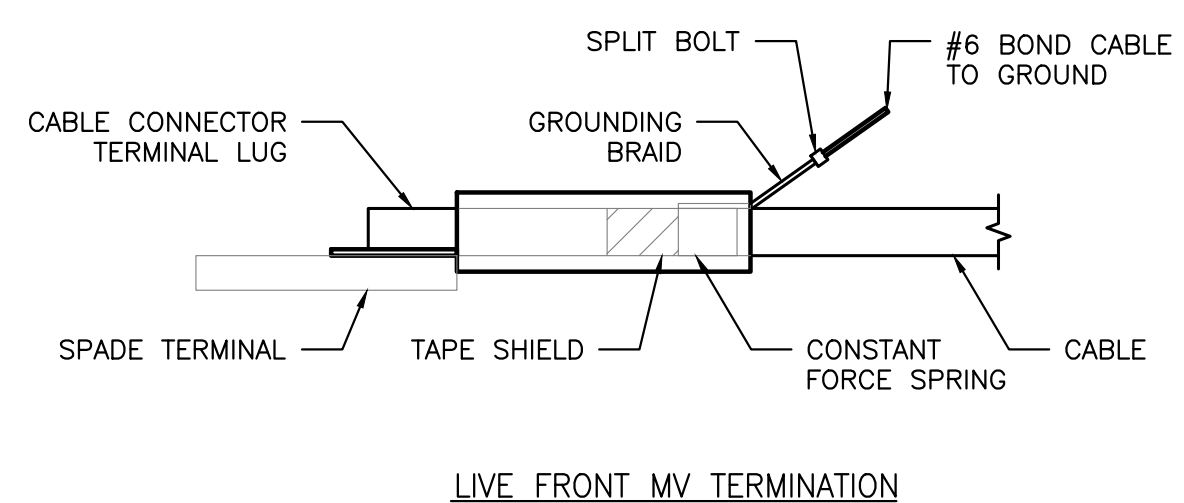
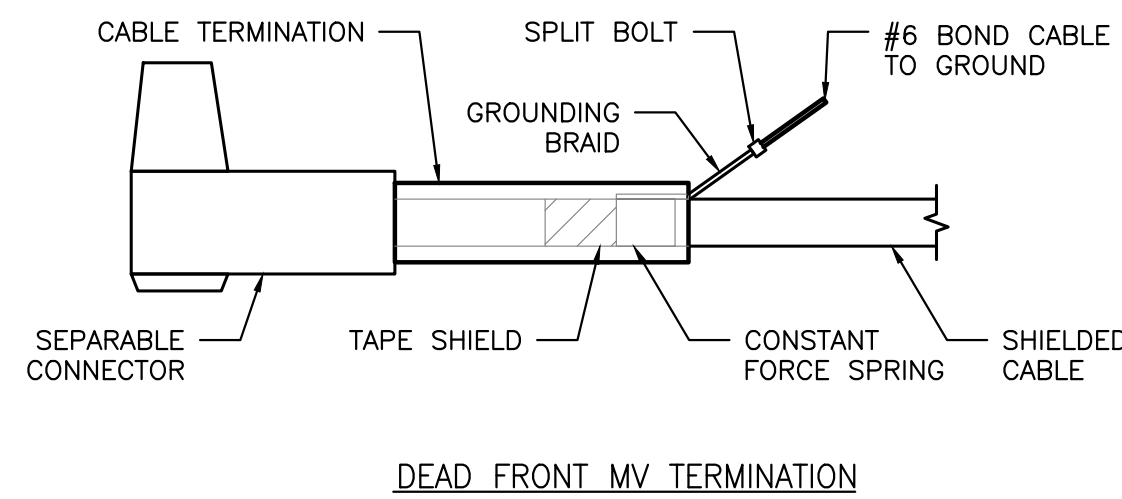


**7 TRANSFORMER GROUNDING: WYE-G/WYE-G**  
E402 SCALE: NONE

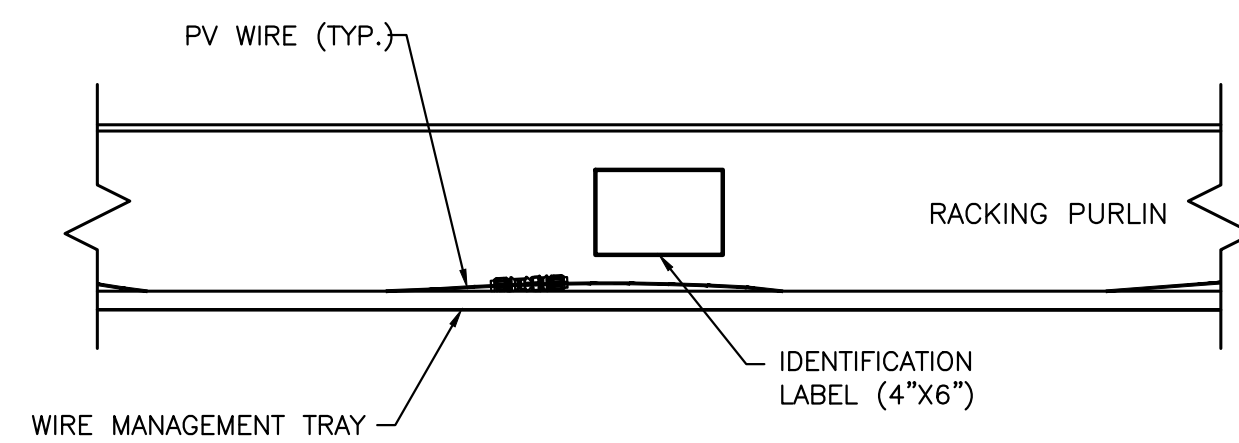
- NOTES:**
- INSTALL EXPANSION COUPLING EVERY 100' OF STRAIGHT CONDUIT RUN.
  - IF EXPANSION COUPLINGS ARE INSTALLED AT LENGTHS LESS THAN 100', THE OFFSET FROM CENTER SHALL BE ADJUSTED PROPORTIONALLY.
  - IF EXPANSION JOINT IS NOT PROVIDED WITH INTERNAL BONDING JUMPER, AND EXTERNAL BONDING JUMPER MUST BE USED



**EMT, IMC & RMC**  
**8 EXPANSION COUPLING DETAIL**  
E402 SCALE: NONE



**9 SHIELDED CABLE DETAIL**  
E402 SCALE: NONE



- NOTES:**
- INSTALL MANUFACTURED LABEL IDENTIFYING THE INVERTER AND STRING NUMBER. LABEL MUST HAVE RED BACKGROUND FOR POSITIVE OR BLACK BACKGROUND FOR NEGATIVE. TEXT SHALL BE WHITE WITH A HEIGHT OF 3/4".
  - NO CROSS MATING OF CONNECTORS IS AUTHORIZED. BOTH MALE AND FEMALE CONNECTOR ENDS MUST BE OF THE SAME MANUFACTURER TO ENSURE UL COMPLIANCE. ACCEPTABLE MANUFACTURER INCLUDE AMPENOL, MC4 AND TYCO. THE MANUFACTURER SPECIFIC TOOL KIT MUST BE USED WHILE MAKING FIELD CONNECTIONS.
  - LABEL SHALL BE INSTALLED ON THE E/W PURLINS, ABOVE THE BUILT-IN WIRE MANAGEMENT TRAY.

**10 STRING PLACARD DETAIL**  
E402 SCALE: NONE

DATE	REVISION DESCRIPTION	FW	LENG	CHK
02/19/2020				
180 JOHNSON STREET MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM		5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. TONIN CT LICENSE NO. 03629282		
PROJECT	6095.440 KW STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378	DRAWING #	E402	
DC SYSTEM SIZE:	4980.000 KW	PERMIT SET	BX AD RT	
AC SYSTEM SIZE:	CANADIAN 360W/400W			
MODULE TYPE:	8294/7774			
MODULE QUANTITY:	25' TILT, 0' AZIMUTH			
ORIENTATION:	PPE 00083			

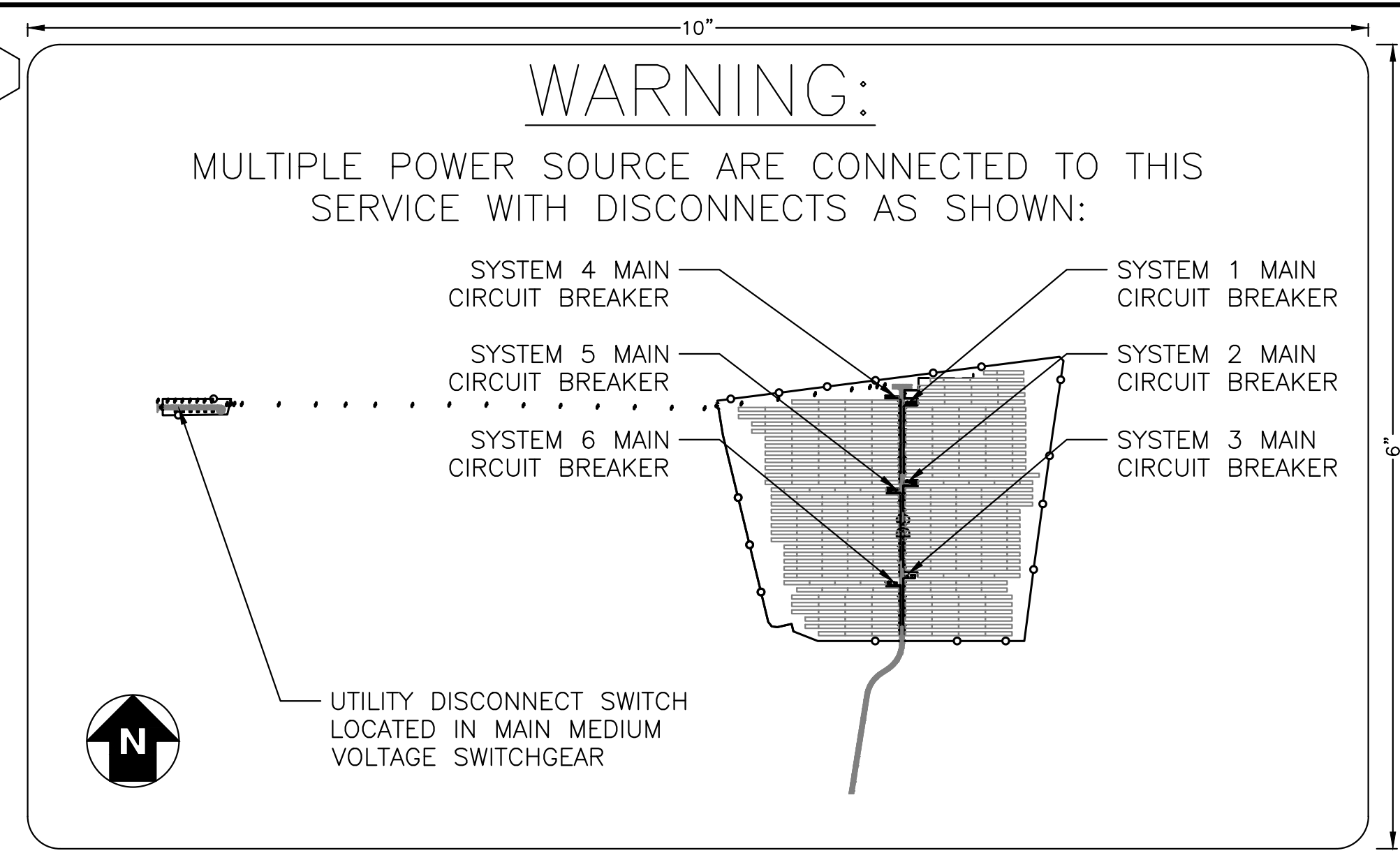
PLOT DATE: 4/23/2020 6:20 PM  
 RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

**GENERAL NOTES FOR LABELS:**  
 1. LABEL SCALE 1:2 UNLESS NOTED  
 2. LETTERING ON SIGNS SHALL BE CAPITAL LETTERS  
 3. CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD(S). THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

**LABEL FORMAT NOTES:**  
 1. **FORMAT 1:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 3/8", ALL OTHER TEXT 5/32".  
 2. **FORMAT 2:** ENGRAVED MELAMINE, BLACK TEXT ON WHITE BACKGROUND. TEXT HEIGHT: 3/8".  
 3. **FORMAT 3:** REFLECTIVE UV RATED LABEL, RED BACKGROUND WITH WHITE CAPITAL LETTERS AT LEAST 3/8" TALL. LABELS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.  
 4. **FORMAT 4:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 5/32", ALL OTHER TEXT 3/32".

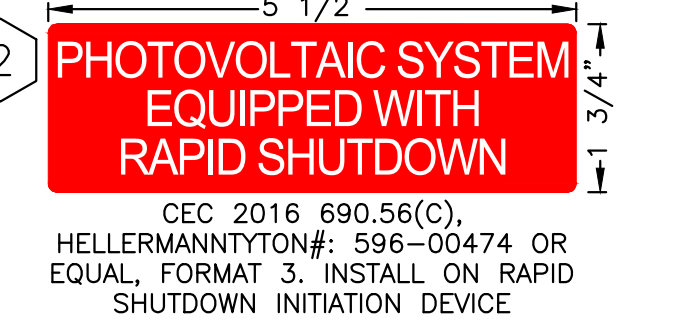
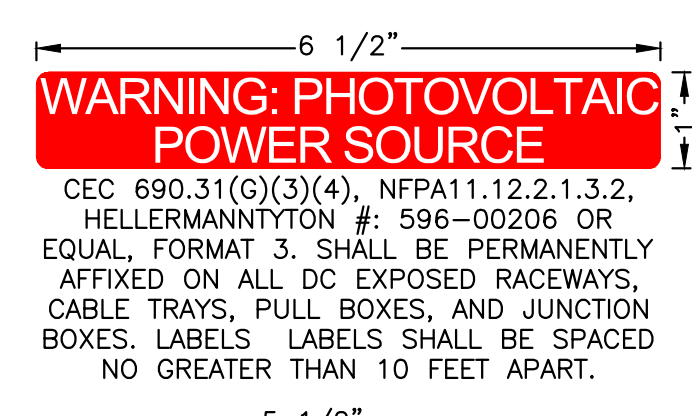
PER 2014 NEC 690.31(B)(1)&(2), PV SOURCE CIRCUITS, PV OUTPUT CIRCUITS AND INVERTER INPUT AND OUTPUT CIRCUITS SHALL BE IDENTIFIED AT ALL POINTS OF TERMINATION, CONNECTION, AND SPLICES.

1. STRING HOMERUNS AT ARRAY
2. DC INPUT TERMINALS OF COMBINER BOX
3. DC OUTPUT TERMINALS OF COMBINER BOX
4. DC INPUT TERMINAL OF INVERTER
5. AC OUTPUT TERMINALS OF INVERTER
6. AC INPUT & OUTPUT TERMINALS OF EACH SUCCESSIVE DEVICE (WHERE APPLICABLE)

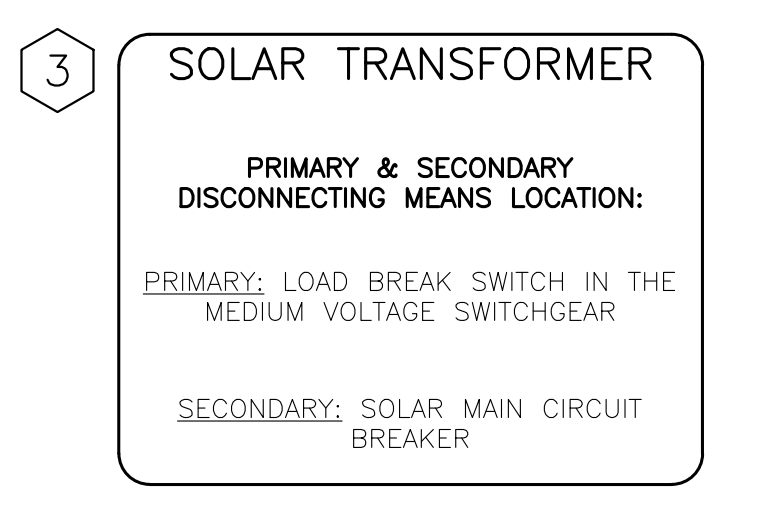


INSTALL AT MAIN DISCONNECT OF ALL POWER SOURCES. ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND, TITLE MIN. 1/2", DESCRIPTION 5/16", ALL OTHER TEXT 1/8"

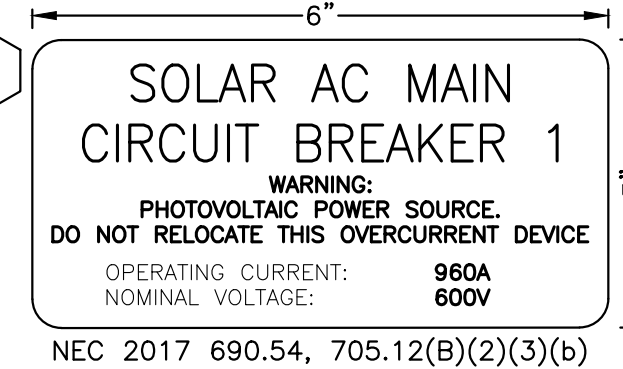
**2 DIRECTORY LABEL**  
 E500 SCALE: 1:1



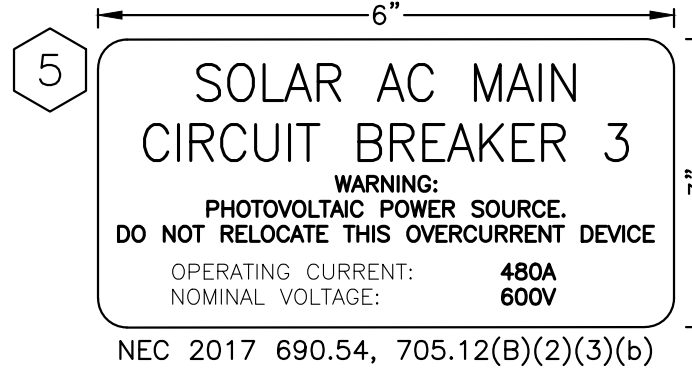
**3 TYPICAL FOR TRANSFORMERS 1-6**



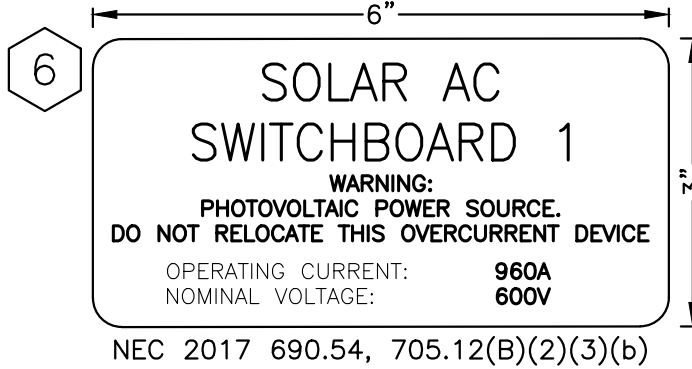
**4 TYPICAL FOR SYSTEMS 1, 2, 4, 5**



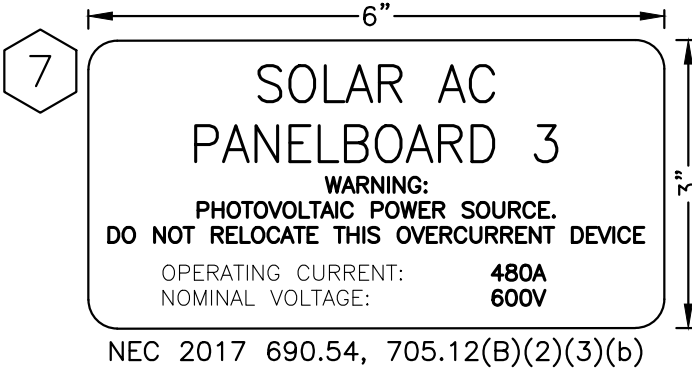
**5 TYPICAL FOR SYSTEMS 3, 6**



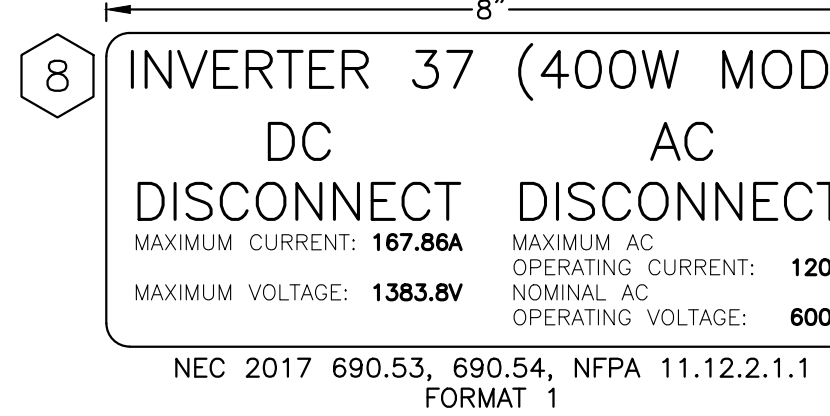
**6 TYPICAL FOR SYSTEMS 1, 2, 4, 5**



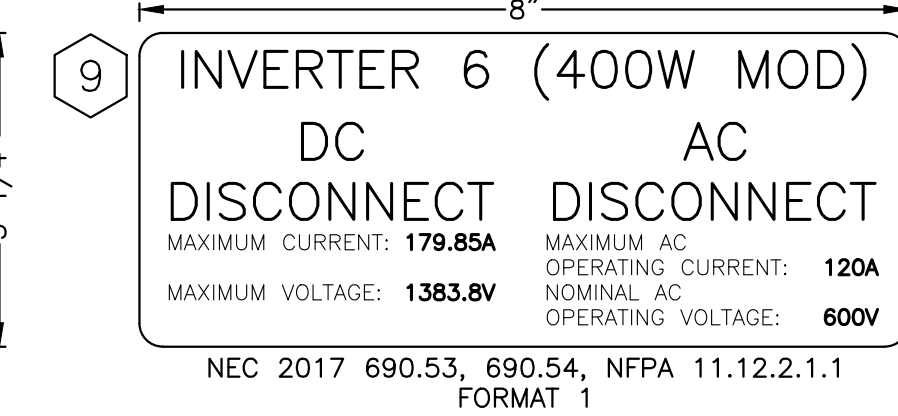
**7 TYPICAL FOR SYSTEMS 3, 6**



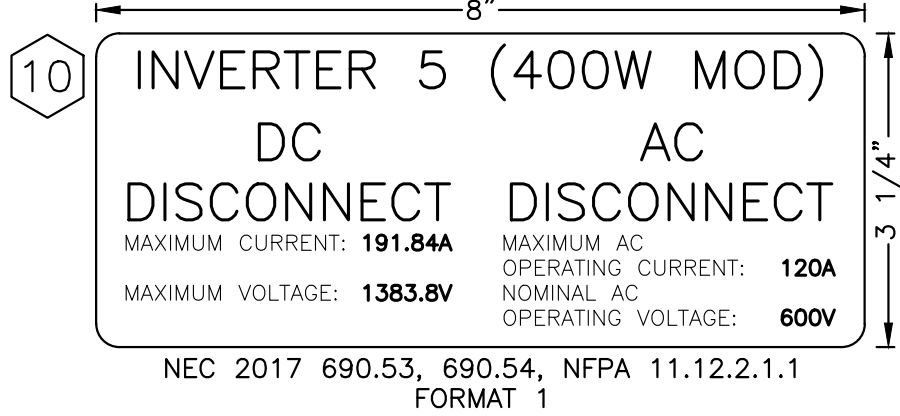
**8 TYPICAL FOR INVERTER(S): 37-38 (14 STRINGS)**



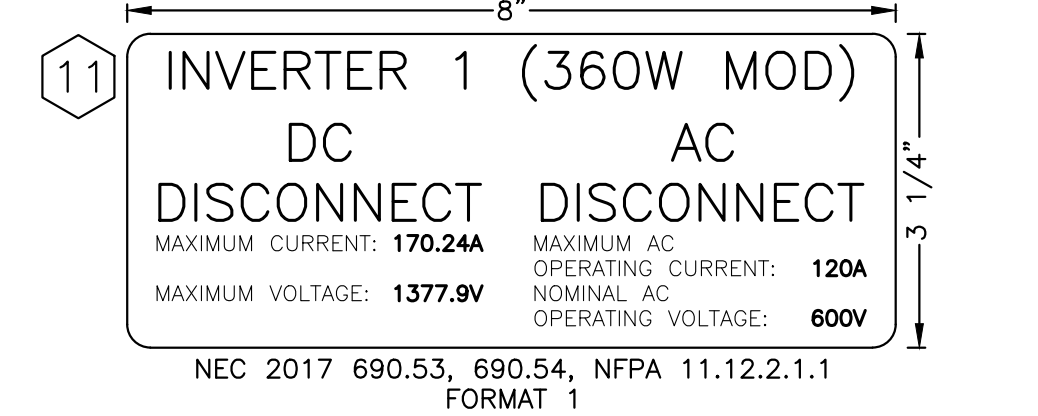
**9 TYPICAL FOR INVERTER(S): 8, 9-10, 25-28 (15 STRINGS)**



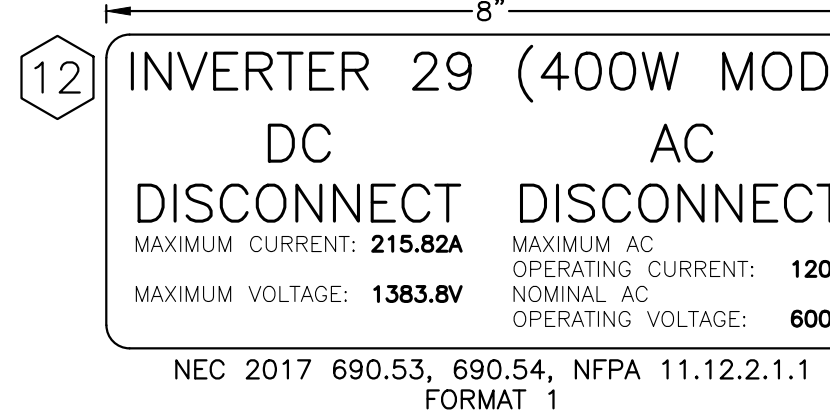
**10 TYPICAL FOR INVERTER(S): 5-7, 11-12, 19-20 (16 STRINGS)**



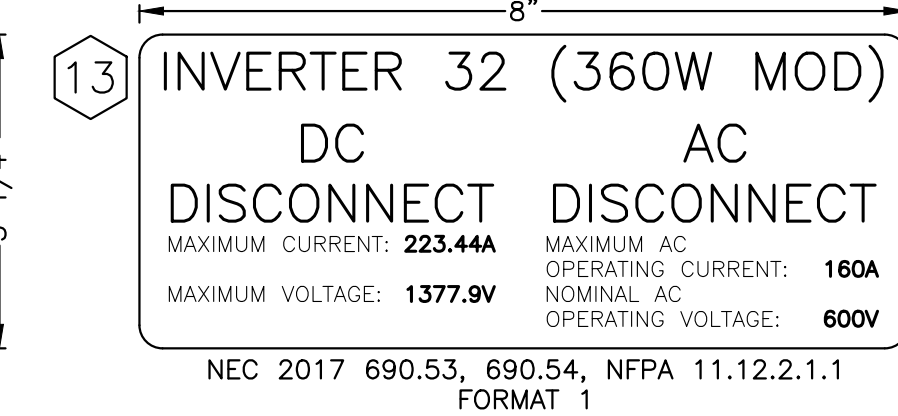
**11 TYPICAL FOR INVERTER(S): 1-4, 13-18, 21-24, 35-36 (16 STRINGS)**



**12 TYPICAL FOR INVERTER(S): 29-31 (18 STRINGS)**



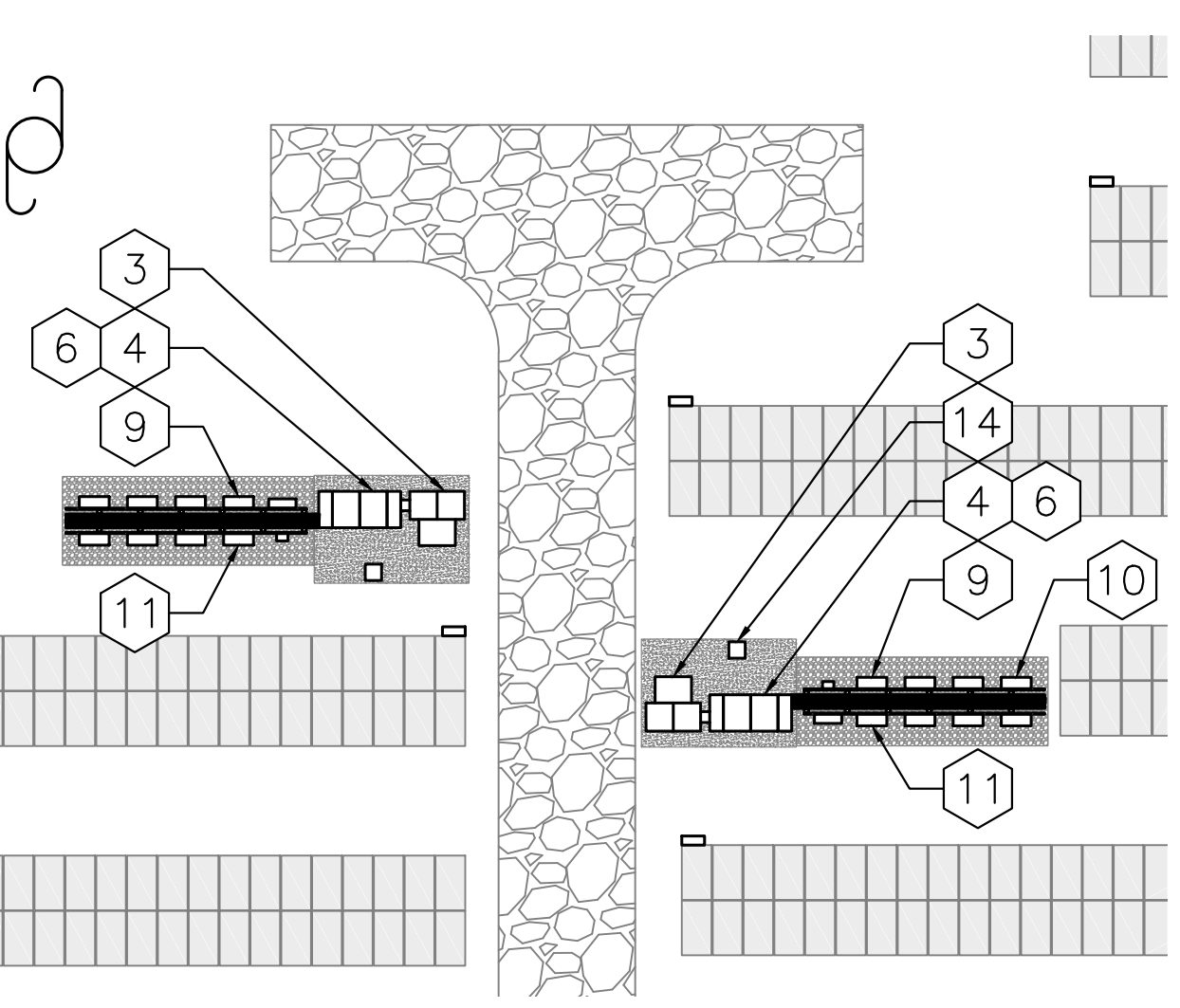
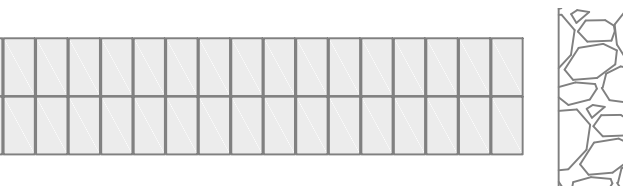
**13 TYPICAL FOR INVERTER(S): 32-34 (21 STRINGS)**



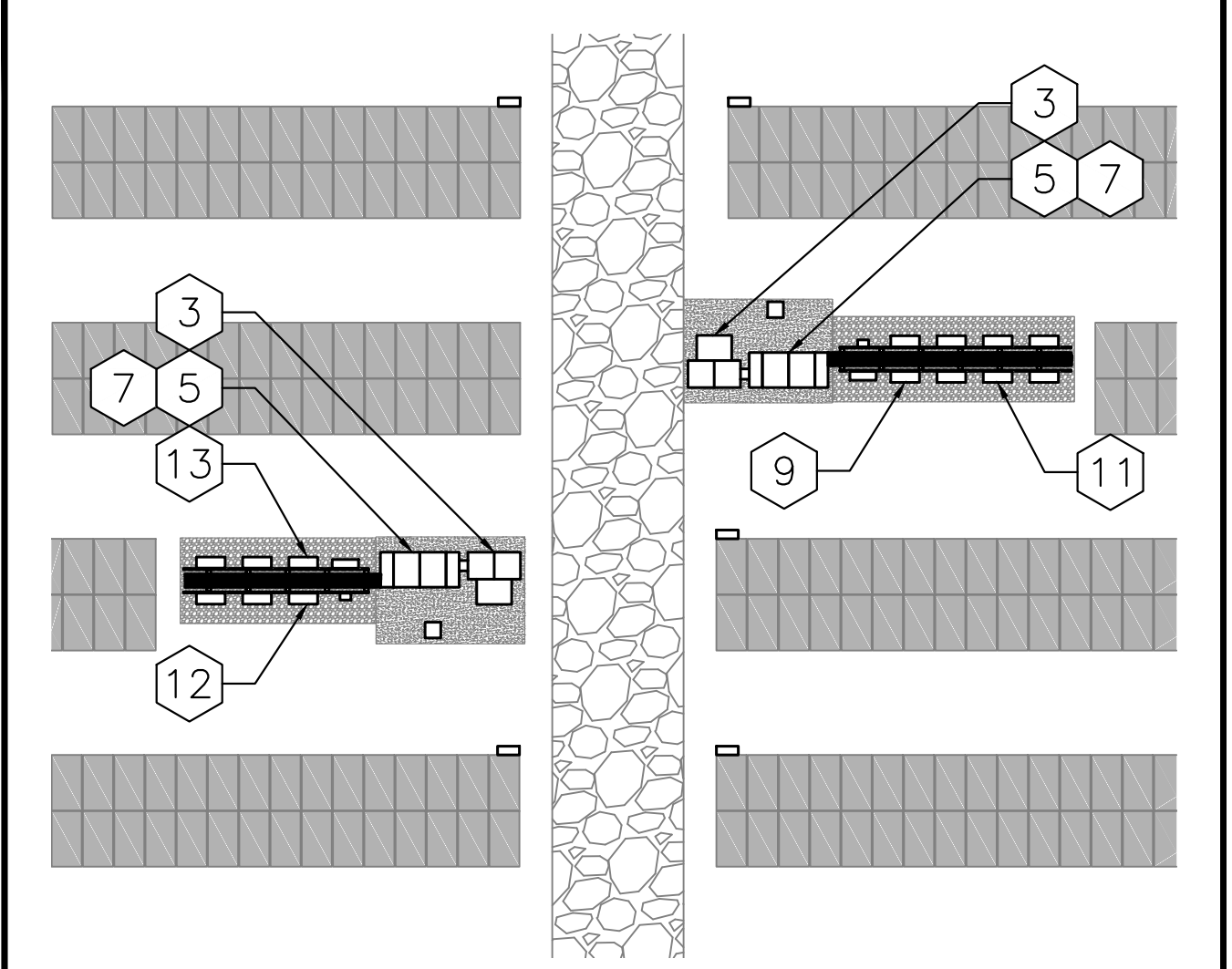
**14 TYPICAL FOR GROUNDING TRANSFORMER 1-2 & 4-5**



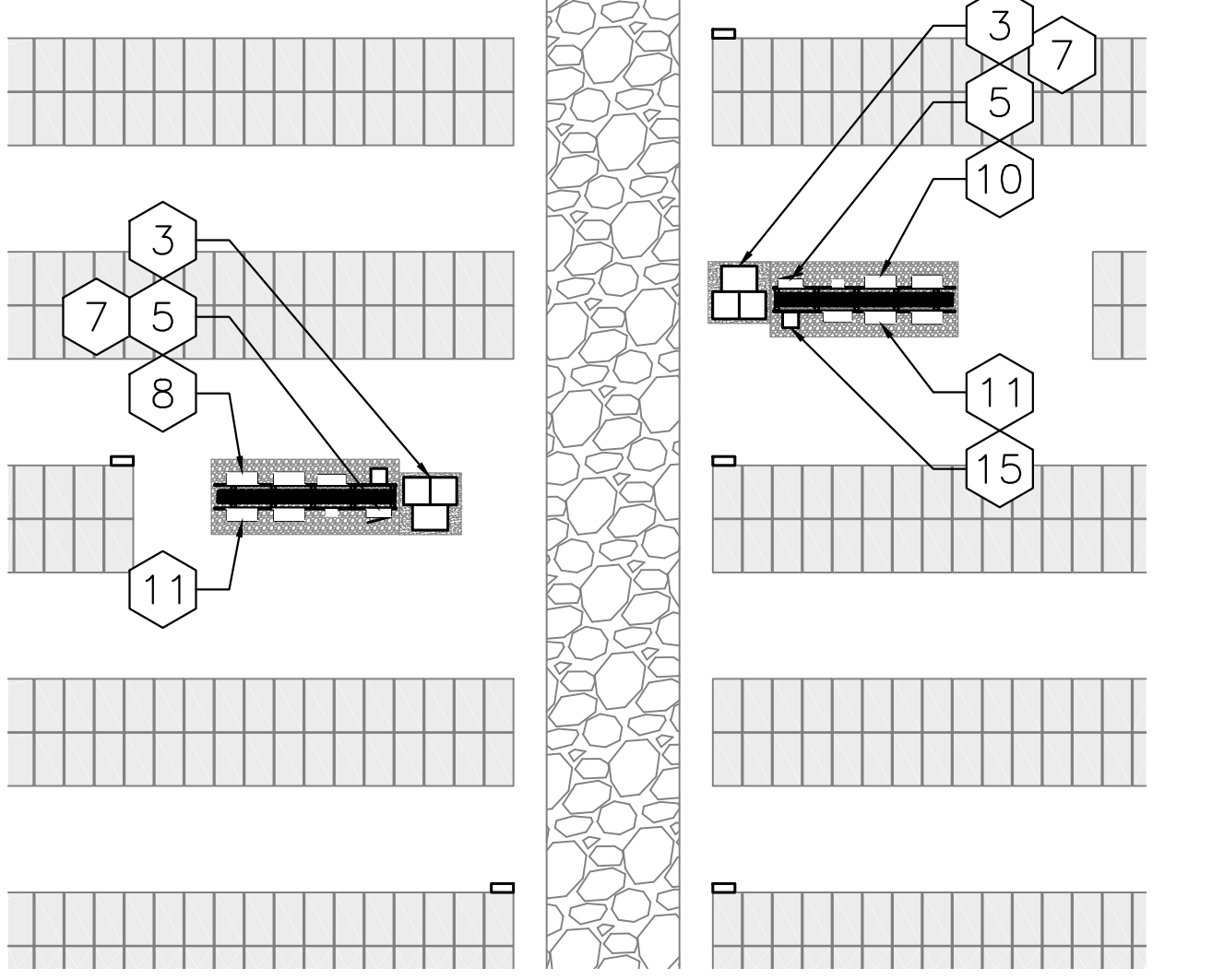
**15 TYPICAL FOR GROUNDING TRANSFORMER 3 & 6**



**1 LABELS & SIGNAGE (SYSTEMS 1 & 4)**  
 E500 SCALE: 1" = 20'-0"



**2 LABELS & SIGNAGE (SYSTEMS 2 & 5)**  
 E500 SCALE: 1" = 20'-0"



**3 LABELS & SIGNAGE (SYSTEMS 6 & 3)**  
 E500 SCALE: 1" = 20'-0"

<p><b>1 MAIN SERVICE DISCONNECT SIGN</b>          E500 NOT TO SCALE</p> <p>THE MAIN SERVICE DISCONNECT IS LOCATED IN THE EXTERIOR MAIN MEDIUM VOLTAGE SWITCHGEAR</p>	<p><b>2 ELECTRIC SHOCK HAZARD SIGN</b>          E500 NOT TO SCALE</p> <p>WARNING! ELECTRIC SHOCK HAZARD. TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.</p> <p>ALL UTILITY INTERACTIVE INVERTERS ARE RACK MOUNTED LOCATED AT THE GROUND MOUNT ARRAY</p>	<p><b>3 INVERTER DIRECTORY SIGN</b>          E500 NOT TO SCALE</p> <p>PHONE NUMBER: 860-598-4890          EMAIL: Om_office@greenskies.com</p>
<p><b>4 ELECTRIC SHOCK HAZARD SIGN</b>          E500 NOT TO SCALE</p> <p>WARNING! ELECTRIC SHOCK HAZARD. TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION.          DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT</p>	<p><b>5 PHOTOVOLTAIC DISCONNECT SIGN</b>          E500 NOT TO SCALE</p> <p>INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED          THE PHOTOVOLTAIC SYSTEM DISCONNECT IS LOCATED IN THE SYSTEM MEDIUM VOLTAGE SWITCHGEAR</p>	<p><b>6 GREENSKIES EMERGENCY CONTACT INFORMATION</b>          E500 NOT TO SCALE</p> <p>WARNING! DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</p>
<p><b>7 POWER SOURCE BACKFEED SIGN</b>          E500 NOT TO SCALE</p> <p>CAUTION! PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED</p>	<p><b>8 DECK MONITORING/REC METER SIGN</b>          E500 NOT TO SCALE</p> <p>CUSTOMER OWNED PRODUCTION METER          600Y/347V</p>	<p><b>9 UTILITY BI-DIRECTIONAL METER SIGN</b>          E500 NOT TO SCALE</p> <p>WARNING! DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</p>
<p><b>10 AC RACEWAY LABEL</b>          E500 NOT TO SCALE</p> <p>WARNING: SOLAR AC CIRCUIT 600Y/347V</p>	<p><b>11 BUILDING FRONT SIGN</b>          E500 NOT TO SCALE</p> <p>SOLAR PHOTOVOLTAIC POWER SOURCE LOCATED ON PREMISES</p>	

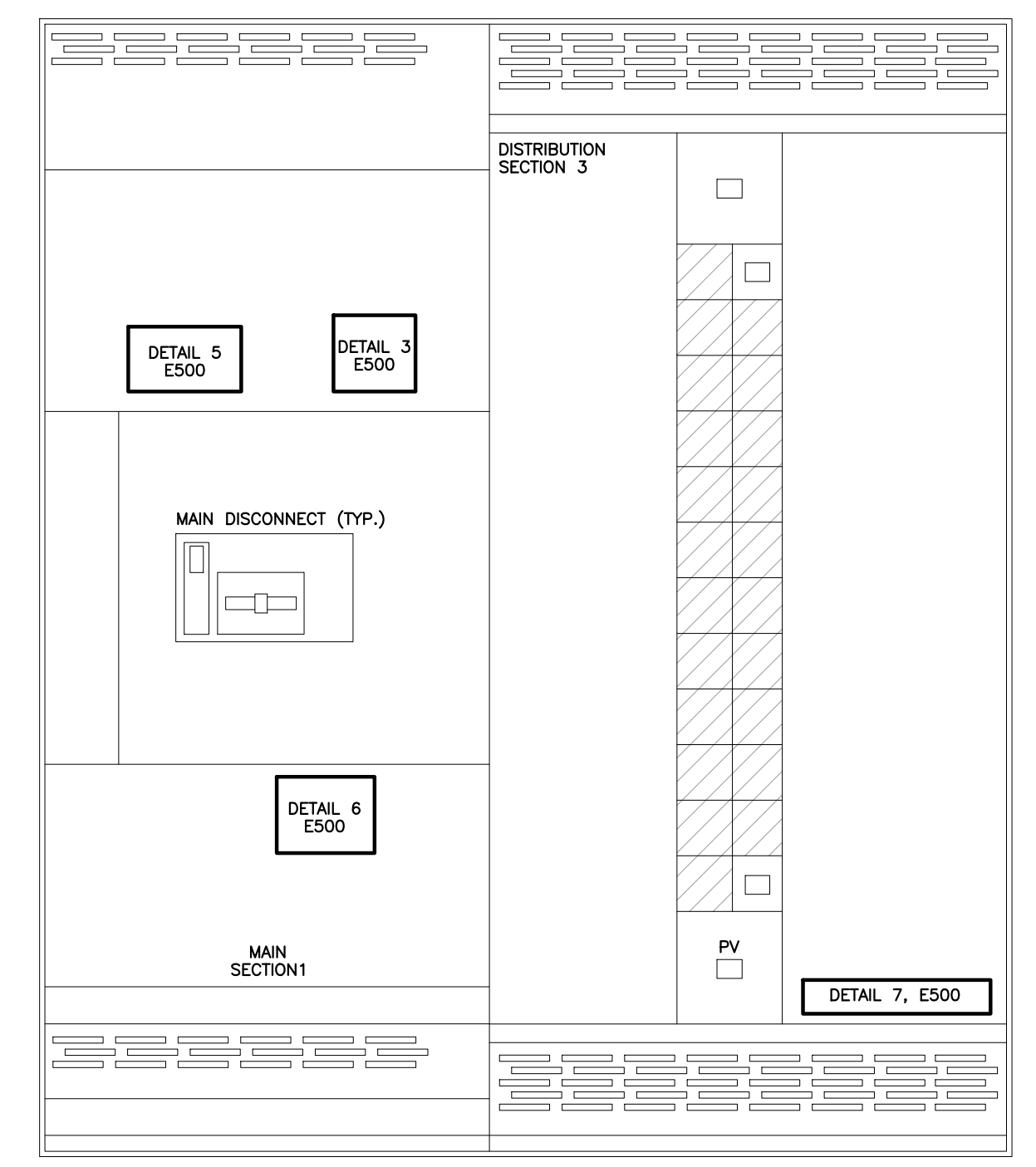


FIGURE 1. EXISTING BUILDING SWITCHGEAR (TYP.)  
 NOTE: SWITCHGEAR MAY BE CONFIGURED DIFFERENTLY (E.G., NO MAIN BREAKER, TWO SECTION SWITCHGEAR, BREAKER TYPES, ETC.). CONTRACTOR SHALL ADJUST SIGNAGE IN THE FIELD IF NEEDED PER NEC.

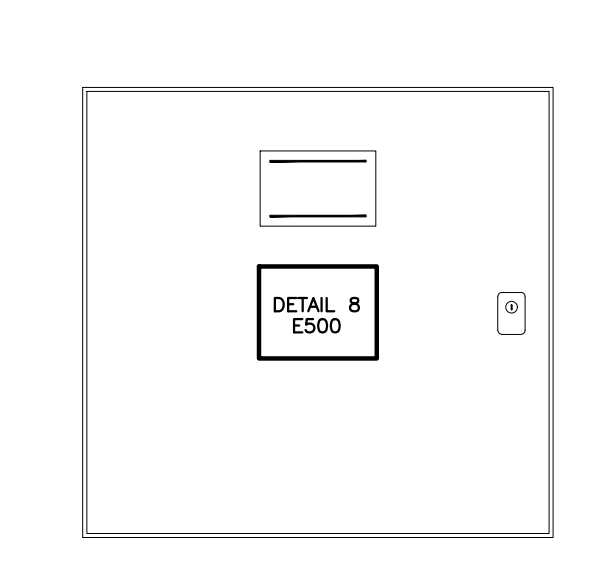


FIGURE 3. DECK MONITOR (TYP.)

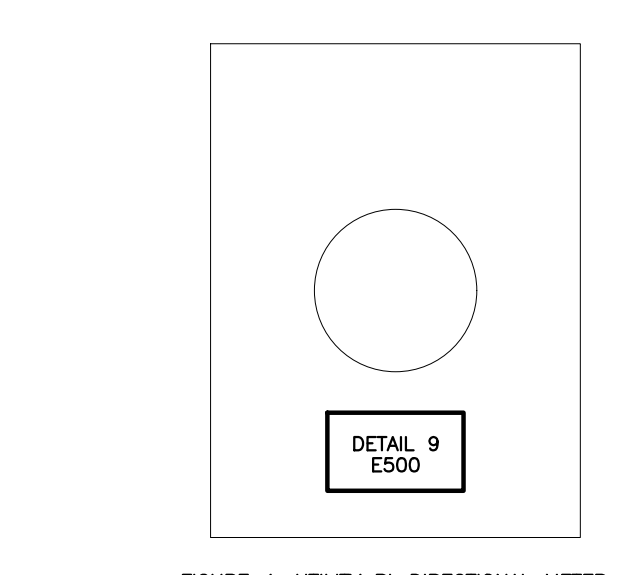


FIGURE 4. UTILITY BI-DIRECTIONAL METER (TYP.)

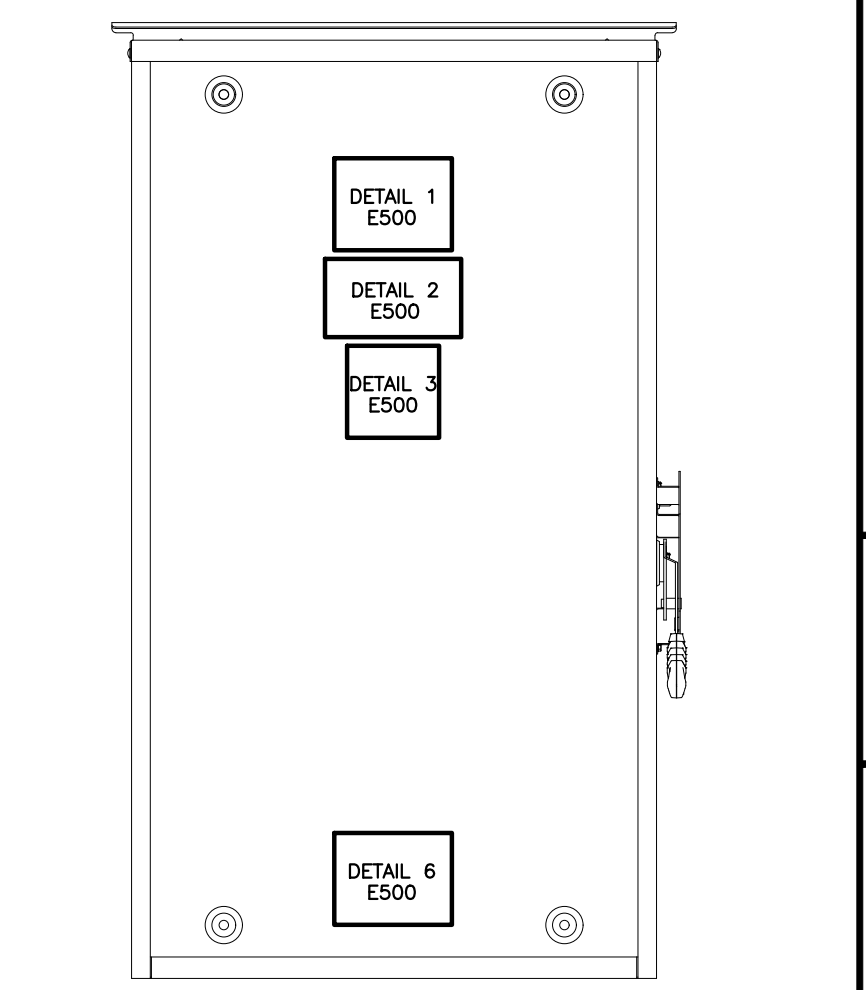


FIGURE 2. AC DISCONNECT (TYP.)

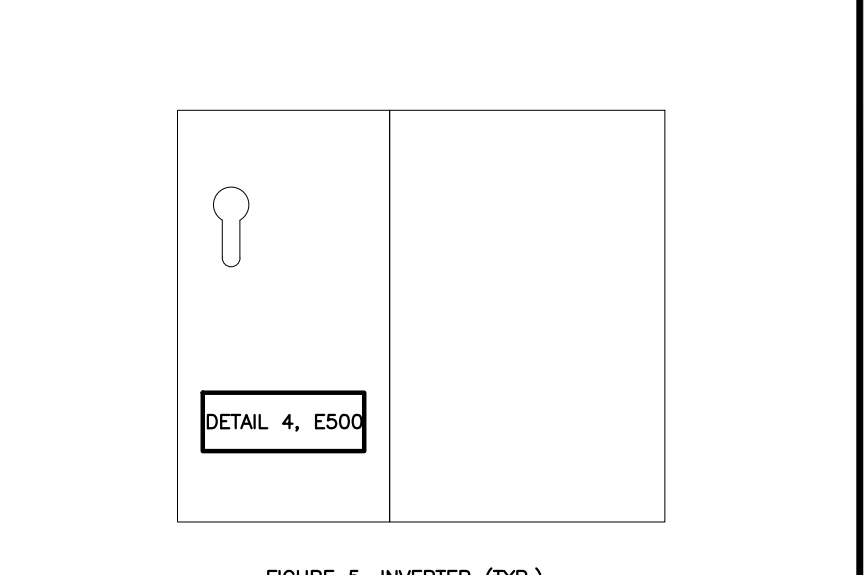


FIGURE 5. INVERTER (TYP.)

**4 CLIENT REQUIRED LABELS**  
 E500 SCALE: 1" = 20'-0"

DRAWING TITLE: LABELS & SIGNAGE  
 DRAWING #: E500

PROJECT: 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378  
 DRAWING # E500  
 DATE: 03/13/2020  
 PERMIT SET - REV. 1  
 PERMIT SET: BX, AD, RI, EX, AD, RI  
 REVISION DESCRIPTION: PM LEVING CHK  
 GREENSKIES  
 180 JOHNSON STREET, MIDDLETOWN, CT 06457  
 WWW.GREENSKIES.COM  
 WWW.PUREPOWER.COM  
 RICHARD A. TONIN  
 CT LICENSE NO. 03629862  
 DEVELOPER: Greenskies a Clean Focus company  
 PROJECT # 00083  
 PPE AZIMUTH 25° TILT  
 DC SYSTEM SIZE: 6095.440 KW  
 AC SYSTEM SIZE: 4980.000 KW  
 MODULE TYPE: CANADIAN 360W/400W  
 MODULE QUANTITY: 8294/7774  
 ORIENTATION:

RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

**GENERAL NOTES FOR LABELS:**

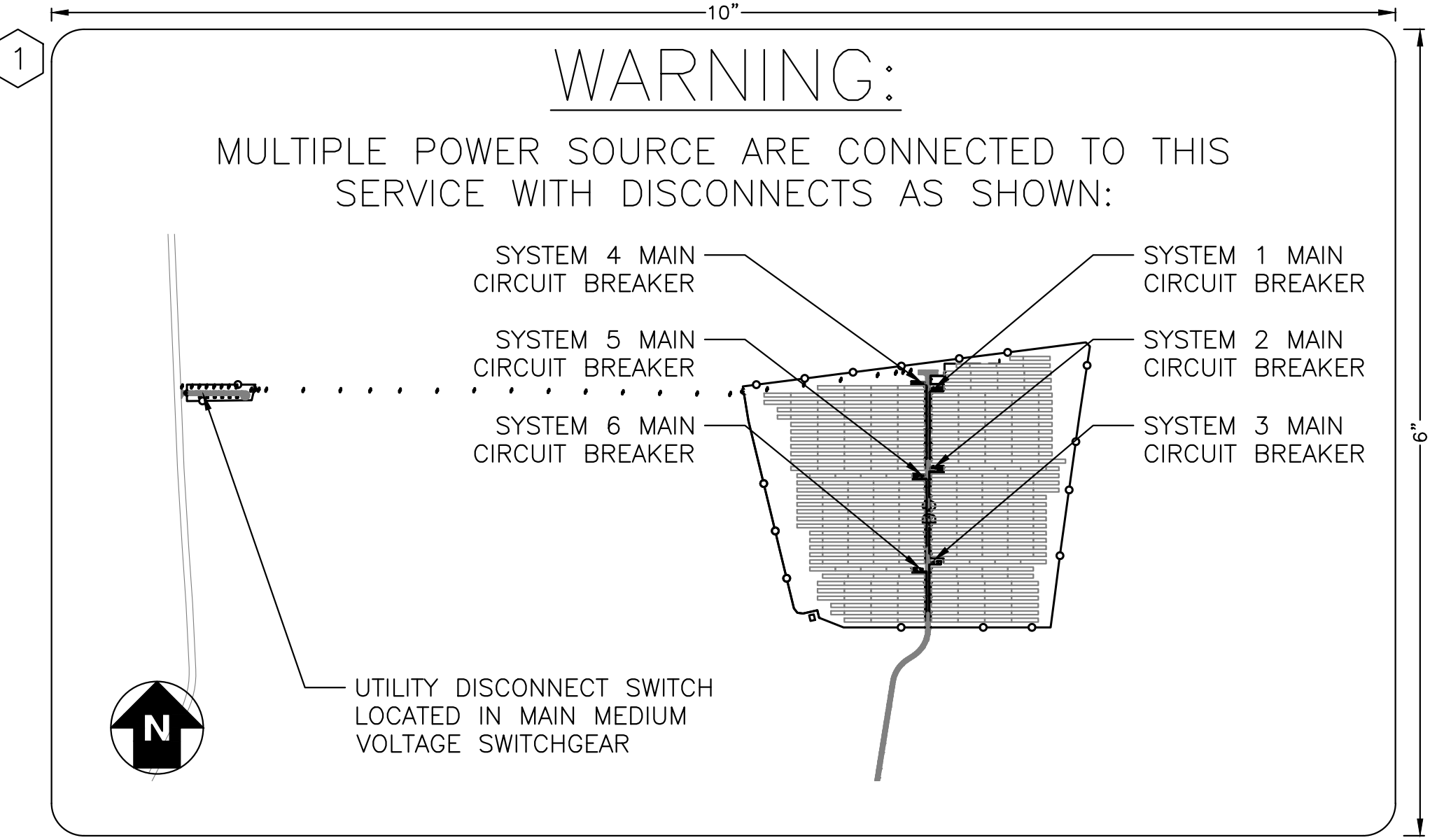
- LABEL SCALE 1:2 UNLESS NOTED
- LETTERING ON SIGNS SHALL BE CAPITAL LETTERS
- CLEARLY LABEL ALL CIRCUIT BREAKERS IN THE PANELBOARD(S). THE LABEL SHALL INDICATE THE NAME OF THE DEVICE IT SERVES.

**LABEL FORMAT NOTES:**

- FORMAT 1:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 3/8", ALL OTHER TEXT 5/32".
- FORMAT 2:** ENGRAVED MELAMINE, BLACK TEXT ON WHITE BACKGROUND. TEXT HEIGHT: 3/8".
- FORMAT 3:** REFLECTIVE UV RATED LABEL, RED BACKGROUND WITH WHITE CAPITAL LETTERS AT LEAST 3/8" TALL. LABELS SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
- FORMAT 4:** ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND. TEXT HEIGHT: TITLES 5/32", ALL OTHER TEXT 3/32".

PER 2014 NEC 690.31(B)(1)&(2), PV SOURCE CIRCUITS, PV OUTPUT CIRCUITS AND INVERTER INPUT AND OUTPUT CIRCUITS SHALL BE IDENTIFIED AT ALL POINTS OF TERMINATION, CONNECTION, AND SPLICES.

- STRING HOMERUNS AT ARRAY
- DC INPUT TERMINALS OF COMBINER BOX
- DC OUTPUT TERMINALS OF COMBINER BOX
- DC INPUT TERMINAL OF INVERTER
- AC OUTPUT TERMINALS OF INVERTER
- AC INPUT & OUTPUT TERMINALS OF EACH SUCCESSIVE DEVICE (WHERE APPLICABLE)



NEC 705.10 & 690.56(B)  
INSTALL AT MAIN DISCONNECT OF ALL POWER SOURCES. ENGRAVED MELAMINE, WHITE TEXT ON RED BACKGROUND, TITLE MIN. 1/2", DESCRIPTION 5/16", ALL OTHER TEXT 1/8"

**1 DIRECTORY LABEL**  
E501 SCALE: 1:1

**PV SYSTEM INSTALLER INFORMATION**  
INSTALLATION COMPANY: XXXXX SOLAR COMPANY  
EMERGENCY PHONE: 000000-XXXX  
NFPA1 11.12.2.1.3, INSTALL ON MAIN PV SYSTEM DISCONNECT, FORMAT 4

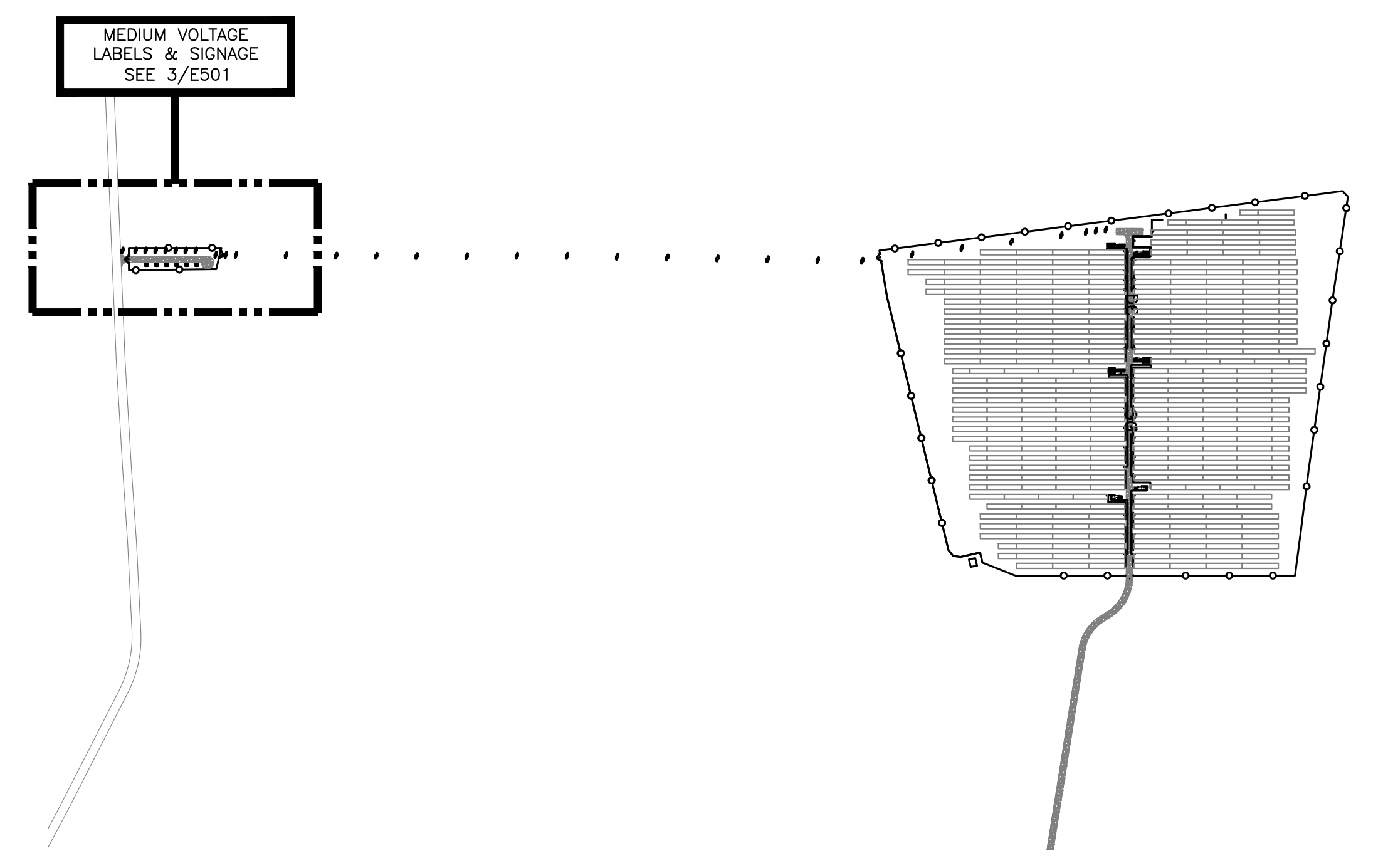
**WARNING**  
ARC FLASH AND SHOCK HAZARD  
Appropriate PPE and Tools Required when working on this equipment.  
OUTDOOR RATED STICKER MOUNTED ON ALL EQUIPMENT

**WARNING: PHOTOVOLTAIC POWER SOURCE**  
CEC 690.31(G)(3)(4), NFPA11.12.2.1.3.2, HELLERMANNITYTON#: 596-00206 OR EQUAL, FORMAT 3. SHALL BE PERMANENTLY AFFIXED ON ALL DC EXPOSED RACEWAYS, CABLE TRAYS, PULL BOXES, AND JUNCTION BOXES. LABELS SHALL BE SPACED NO GREATER THAN 10 FEET APART.

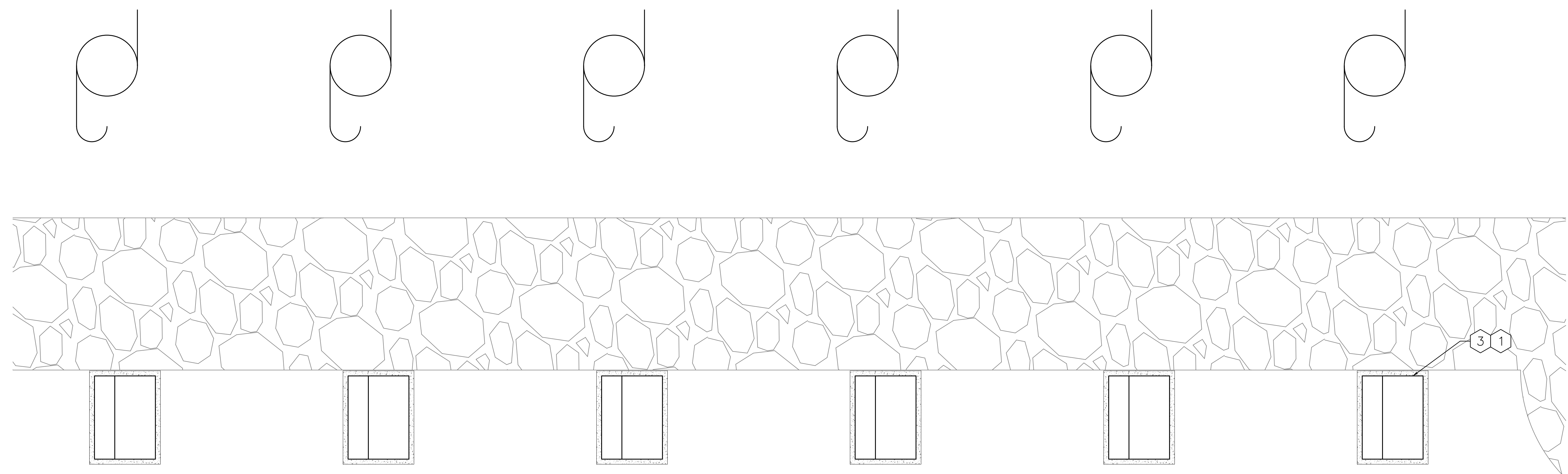
**PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN**  
CEC 2016 690.56(C), HELLERMANNITYTON#: 596-00474 OR EQUAL, FORMAT 3. INSTALL ON RAPID SHUTDOWN INITIATION DEVICE

TYPICAL FOR SYSTEMS 1-6

**3 SYSTEM 1 MEDIUM VOLTAGE SWITCHGEAR**  
WARNING: PHOTOVOLTAIC POWER SOURCE. DO NOT RELOCATE THIS OVERCURRENT DEVICE  
OPERATING CURRENT: 208.4A  
NOMINAL VOLTAGE: 13.8kV  
NEC 2017 690.54, 705.12(B)(2)(3)(b)  
NFPA 11.12.2.1.1, FORMAT 1



**2 LABELS & SIGNAGE**  
E501 SCALE: 1" = 300'-0"



**3 MEDIUM VOLTAGE LABELS & SIGNAGE**  
E501 SCALE: 3/16" = 1'-0"

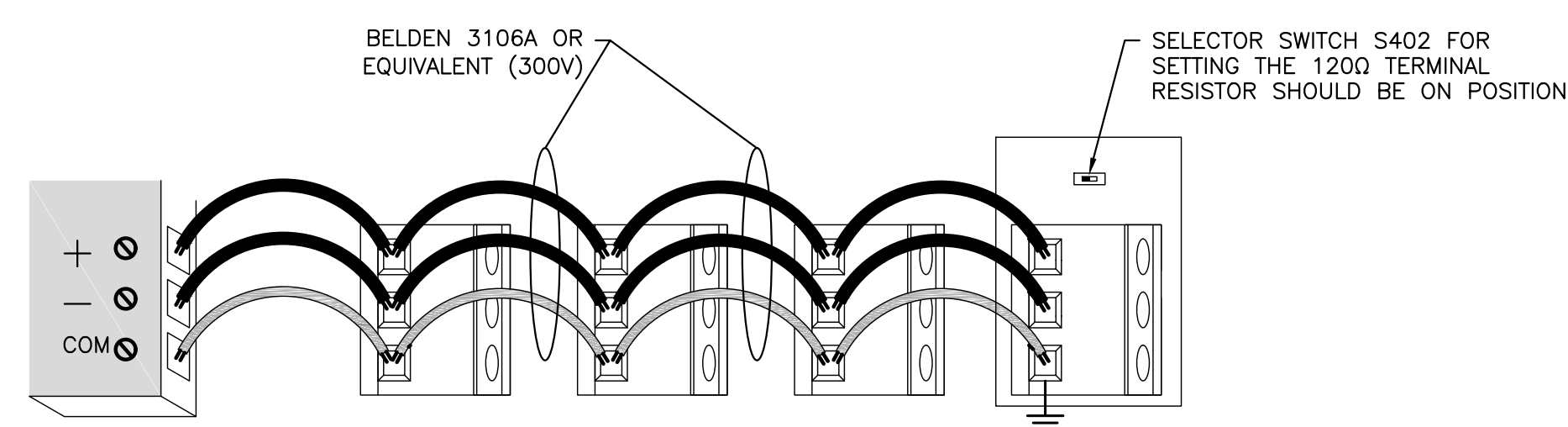
DRAWING TITLE	DRAWING #
MEDIUM VOLTAGE LABELS & SIGNAGE	E501

DATE	REVISION DESCRIPTION	DATE	REVISION DESCRIPTION	DATE	REVISION DESCRIPTION
03/13/2020	PERMIT SET - REV. 1	03/13/2020	PERMIT SET	02/19/2020	PERMIT SET
5 MARINE VIEW PLAZA, HOBOKEN, NJ WWW.PUREPOWER.COM RICHARD A. VONDERHEID CT LICENSE NO. 0382982		180 JOHNSON STREET, MIDDLETOWN, CT 06457 WWW.GREENSKIES.COM a Clean Focus company		DEVELOPER GREENSKIES 6095.440 KW 4980.000 KW CANADIAN 360W/400W MODULE TYPE: 8294/7774 ORIENTATION: 25° TILT, 0° AZIMUTH	
PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378		PAGE SIZE 3.6" x 24"		PROJECT # PPE 00083	



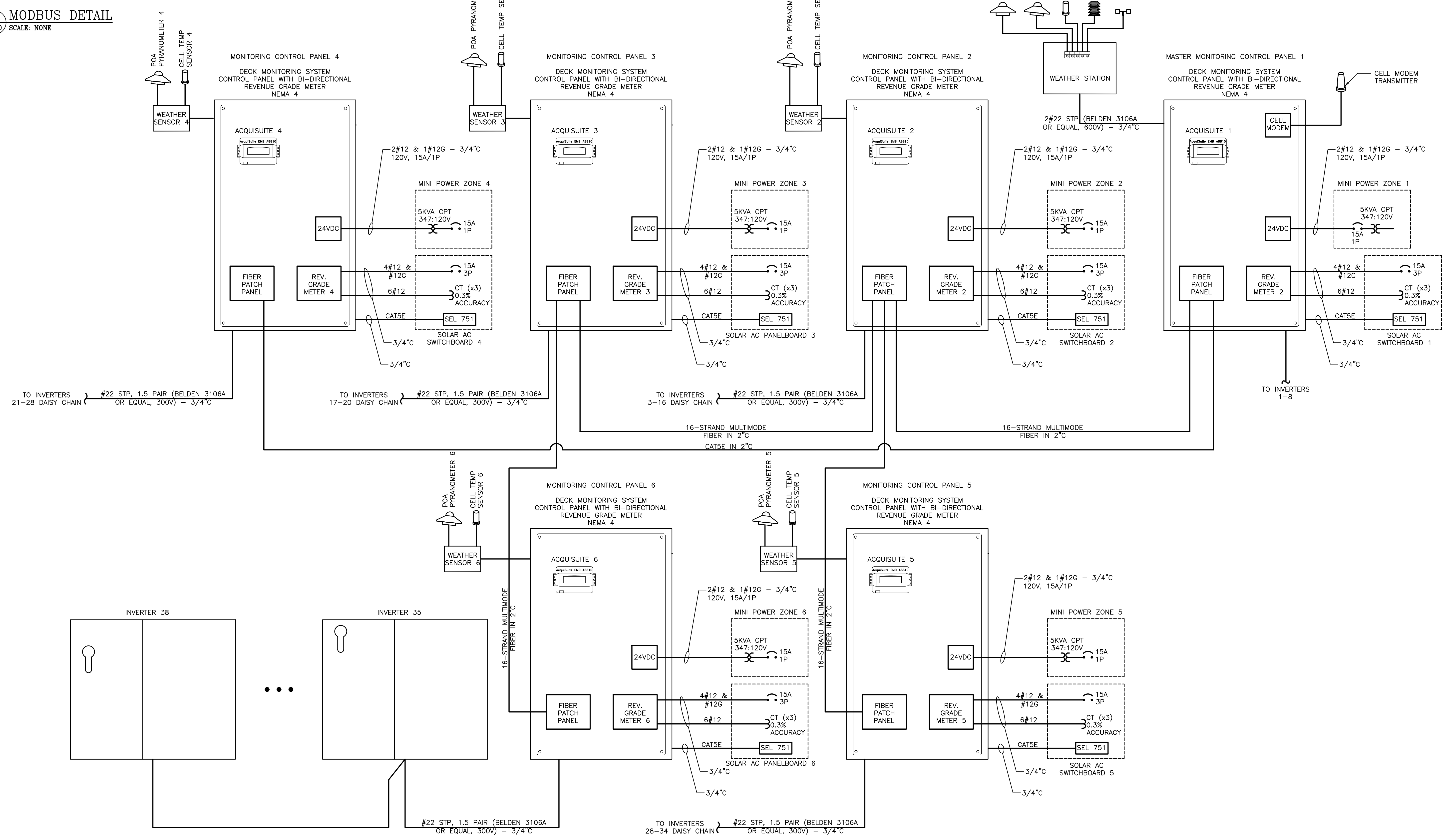


RULER IN INCHES: 0 1/2 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18



**MONITORING NOTES:**

- REFER TO MONITORING SYSTEM INSTALLATION MANUAL FOR DETAILS ON TERMINAL BLOCKS, CABLE TERMINATIONS, AND SYSTEM CONFIGURATION.
- PIRANOMETER MUST BE INSTALLED IN UNSHADED LOCATION.



DATE	REVISION DESCRIPTION	PM LENG CHK
03/13/2020	PERMIT SET - REV. 1	BX AD RI
02/19/2020	PERMIT SET	BX AD RI

**PURE POWER**  
NEW CANON, CT  
5 MARINE VIEW PLAZA, HOBOKEN, NJ  
WWW.PUREPOWER.COM  
RICHARD A. TONIN  
CT LICENSE NO. 03629262

**GREENSKIES**  
180 JOHNSON STREET,  
MIDDLETOWN, CT 06457  
WWW.GREENSKIES.COM  
a Clean Focus company

DEVELOPER

PAGE SIZE: 3.6" x 24"  
PROJECT # PPE 00083

DC SYSTEM SIZE: 6095.440 KW  
AC SYSTEM SIZE: 4980.000 KW  
MODULE TYPE: CANADIAN 360W/400W  
MODULE QUANTITY: 8294/7774  
ORIENTATION: 25° TILT, 0° AZIMUTH

PROJECT 6095.440 KW GROUND MOUNT SYSTEM AT STONINGTON TAUGWONK 35 TAUGWONK SPUR ROAD STONINGTON, CT 06378

DRAWING # E700