


PLAN KEY	
PV-1	COVER PAGE
PV-1.1	ATTACHMENT DETAILS
PV-2	PANEL LAYOUT
PV-3	ELECTRICAL
PV-4	EQUIPMENT LABELS
PV-5	POLARIS TAPS SPECS

SYSTEM INFORMATION	
MODULE	MISSION SOLAR MSX10-435HNOB 435W
INVERTER	ENPHASE IQ8HC-72-M-DOM-US
RACKING	SNAPRACK ULTRA RAIL & ULTRAFOOT
SYSTEM SIZE (DC)	1.74 KW
LOCATION	39.8237953, -74.9188021

*X= 2 OR M DEPENDING ON MANUFACTURER'S AVAILABILITY. SAME ELECTRICAL CHARACTERISTICS WITH DIFFERENT DC CONNECTOR. SEE SPECS FOR DETAILS.



MISSION SOLAR MSX10-435HNOB 435W
435 WATT MODULE
67.8" X 44.65" X 1.38"
(SEE DATASHEET)



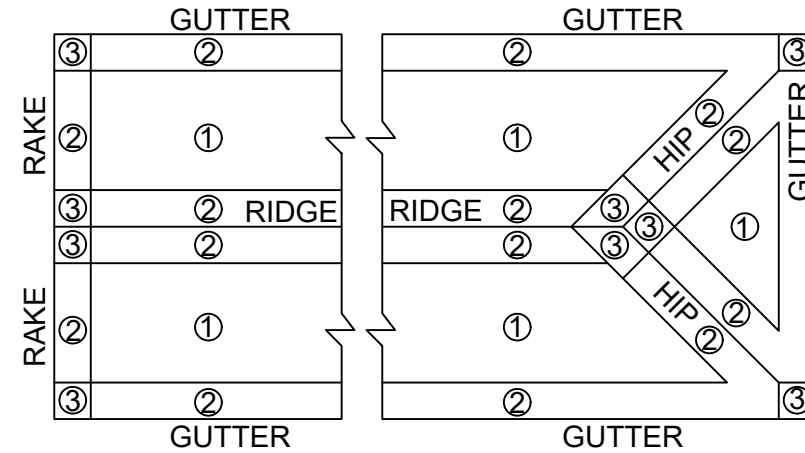
PRO CUSTOM SOLAR LLC D.B.A. MOMENTUM SOLAR
3096 HAMILTON BLVD, SOUTH PLAINFIELD, NJ 07080
(732) 902-6224
MOMENTUMSOLAR.COM

PROFESSIONAL ENGINEERING

MICHAEL REZK
LICENSE # GE56261

ENGINEERING LETTER ATTACHED HAS SPECIFICATIONS FOR WIND AND LOAD CALCULATIONS FOR SOLAR INSTALLATION SPANS & ATTACHMENTS TO MEET LOCAL AND STATE BUILDING CODE COMPLIANCE. WARNING THAT IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER AN ITEM IN ANY WAY.

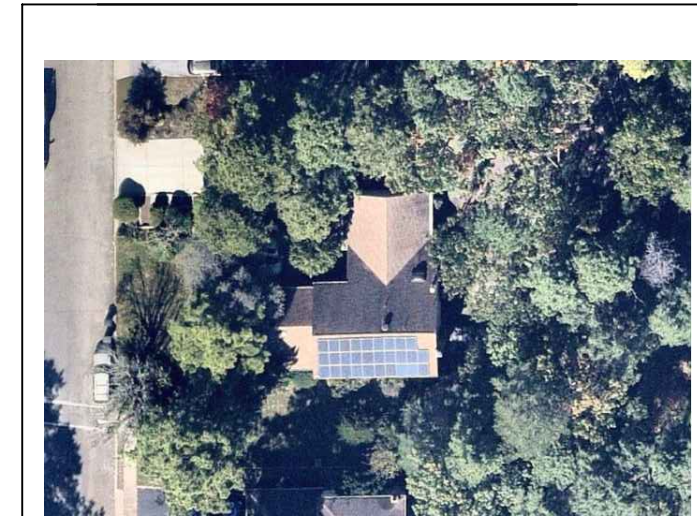
- ALL WIND DESIGN CRITERIA ARE FOR LOW SLOPE ROOFS, GABLE AND HIP ROOFS CONSIDERED FROM AN ANGLE OF MIN. 9.5° ($\frac{2}{12}$) TO MAX. 45° ($\frac{12}{12}$) NOT TO EXCEED 30' MEAN ROOF HEIGHT ATTACHED WITH FASTENERS AS SPECIFIED BY THE MANUFACTURER.
- SPAN TABLES ARE DERIVED FROM MECHANICAL LOAD TESTS PERFORMED BY THE MANUFACTURERS INDEPENDENT TESTING AGENCIES ON BEHALF OF THE MANUFACTURER.
- ROOF SEALANTS SHALL CONFORM TO ASTM C920 AND ASTM 6511
- ALL ATTACHMENTS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS.



ROOF WIND ZONES AS PER IRC R301.2(7)

ROOF ZONES 2 & 3 ARE 48" FROM OUTER ROOF EDGES, RIDGES, HIPS, RAKES, AND GUTTER EDGES FOR STRUCTURES BELOW 30'-0" MEAN ROOF HT.

VICINITY MAP



GENERAL NOTES:

THIS PV SYSTEM HAS BEEN DESIGNED TO MEET THE MINIMUM DESIGN STANDARDS FOR BUILDING AND OTHER STRUCTURES OF THE 2021 NEW JERSEY STATE UNIFORM CODE, ALL ASPECTS OF THE INSTALLATION SHALL COMPLY WITH THE 2021 INTERNATIONAL RESIDENTIAL CODE (2021IRC). WITH ALL NEW JERSEY AMENDMENTS, ASCE 7-16, NEC 2020 (NFPA 70), ALL LOCAL GOVERNING COUNTY AND MUNICIPAL ORDINANCES ADOPTED BY REFERENCE OR ENACTED BY LAW, ALL INSTALLATION INSTRUCTIONS PREPARED BY THE MANUFACTURER.

FASTENER:

REFER TO STRUCTURAL CERTIFICATION LETTER FOR ALL STRUCTURAL INFORMATION OF EXISTING BUILDING STRUCTURE.

ATTACHMENT SPACING NOT EXCEED MANUFACTURERS SPECIFICATIONS FOR WIND LOADS AS PER ASCE 07-16. RISK CATEGORY II TOPOGRAPHIC EFFECTS B,C, & D AND ROOF WIND ZONES 1,2,& 3. ROOF ZONES 2 & 3 ARE WITHIN 48" OF ANY OUTER EDGE, HIP, RIDGE, OR GUTTER LINE FOR STRUCTURES 30'-0" OR LESS MEAN ROOF HEIGHT.

BILL OF MATERIALS			
NON SH MODULES	4	SH MODULES	0
INVERTERS	4	TRUNK CABLE	5
L-FOOT ATTACHMENT W/ ULTRAFOOT	14	WIRE CLIP	4
ENPHASE COMBINER	1	INVERTER CLIP	4
35A OCPD	1	168 RAILS	2
SOLAR AC DISCO	1	CONSUMPTION CT	2
125A LINE TAPS	2		

CUSTOMER INFORMATION

FRANK MITCHELL NEWCOMER
79 TENBY CHASE DRIVE
VOORHEES TOWNSHIP, NJ 08043
6093140054

PV SYSTEM INFORMATION

SYSTEM SIZE (DC): 1.74 KW
SYSTEM DESIGN CAPACITY (AC): 1.52 KVA
4 MODULES: MISSION SOLAR MSX10-435HNOB 435W
4 INVERTERS: ENPHASE IQ8HC-72-M-DOM-US

PROJECT INFORMATION - MS181945

INITIAL	DATE: 3/9/2026	DESIGNER: [Signature]
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

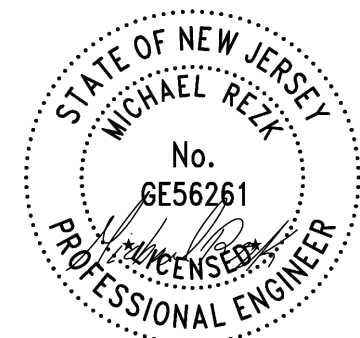
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PV-1

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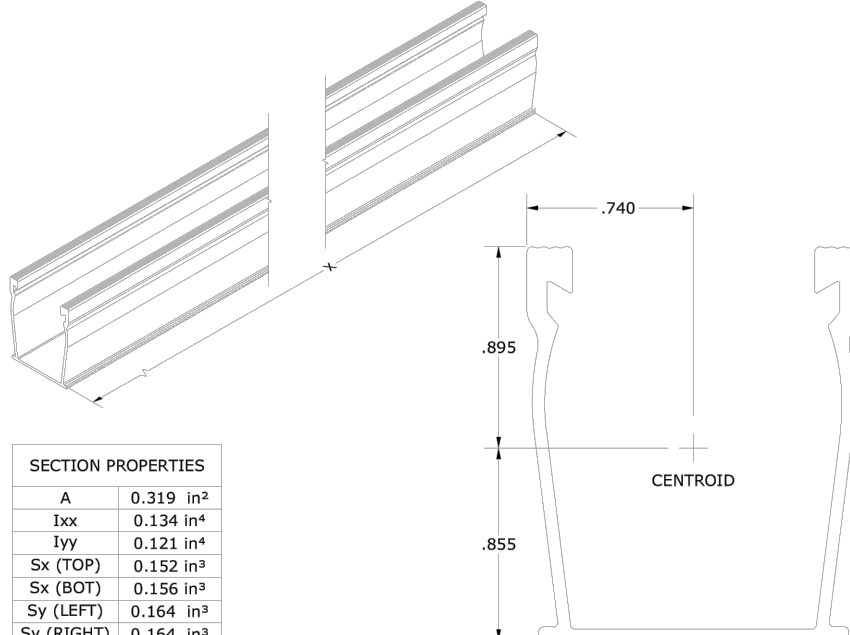
INITIAL	DATE: 3/9/2026	DESIGNER: [v]
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ATTACHMENT DETAILS

PV-1.1

DESCRIPTION: SNAPNRACK, TDS, UR-45 RAIL (USA)		DOC NUMBER: SNR-DC-01451	
PART NUMBER(S): 232-10095-USA, 232-10096-USA, 232-10097-USA, 232-10130-USA		DRAWN BY: H. WULFEOETTER	
UNITS: IN, LB, DEG [MM, KG, DEG] SHEET: 1:1		REV: C DATE: 4/1/2025	SNR SOLAR LLC 778 FIERO LANE, SUITE 200 SAN LUIS OBISPO, CA 95061 USA EMAIL: CONTACT@SNAPNRACK.COM <small>THE INFORMATION IN THIS DRAWING IS THE PROPERTY OF SNR SOLAR LLC. ANY REPRODUCTION OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SNR SOLAR LLC.</small>

SKU	FINISH	RAIL LENGTH (X)	WEIGHT (lb)
232-10095-USA	MILL	172 in	5.55
232-10096-USA	BLACK	172 in	5.55
232-10097-USA	MILL	94 in	3.03
232-10130-USA	MILL	186 in	6.00

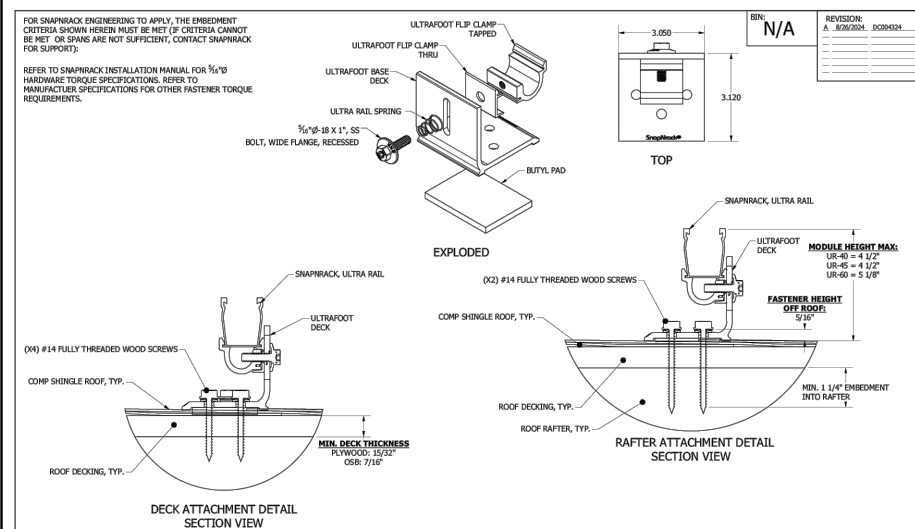


SECTION PROPERTIES	
A	0.319 in ²
Ixx	0.134 in ⁴
Iyy	0.121 in ⁴
Sx (TOP)	0.152 in ³
Sx (BOT)	0.156 in ³
Sy (LEFT)	0.164 in ³
Sy (RIGHT)	0.164 in ³

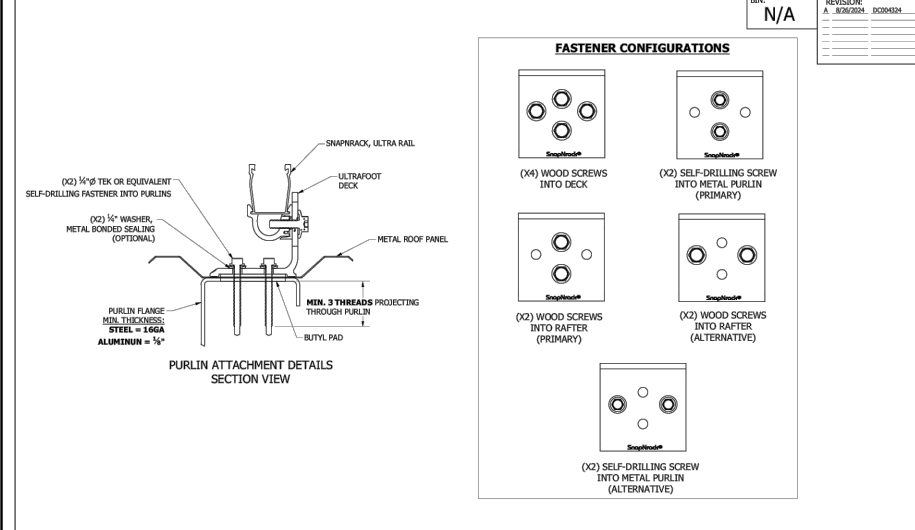
MATERIALS:	6005-T5 ALUMINUM
DESIGN LOAD (LBS):	N/A
ULTIMATE LOAD (LBS):	N/A
TORQUE SPECIFICATION:	N/A FT-LBS
CERTIFICATION:	UL 2703, FILE E359313
WEIGHT (LBS):	VARIABLES, SEE PROPERTIES TABLE

FOR SNAPNRACK ENGINEERING TO APPLY, THE EMBEDMENT CRITERIA SHOWN HEREIN MUST BE MET (IF CRITERIA CANNOT BE MET OR SPANS ARE NOT SUFFICIENT, CONTACT SNAPNRACK FOR SUPPORT).

REFER TO SNAPNRACK INSTALLATION MANUAL FOR 1/8" HARDWARE TORQUE SPECIFICATIONS. REFER TO MANUFACTURER SPECIFICATIONS FOR OTHER FASTENER TORQUE REQUIREMENTS.



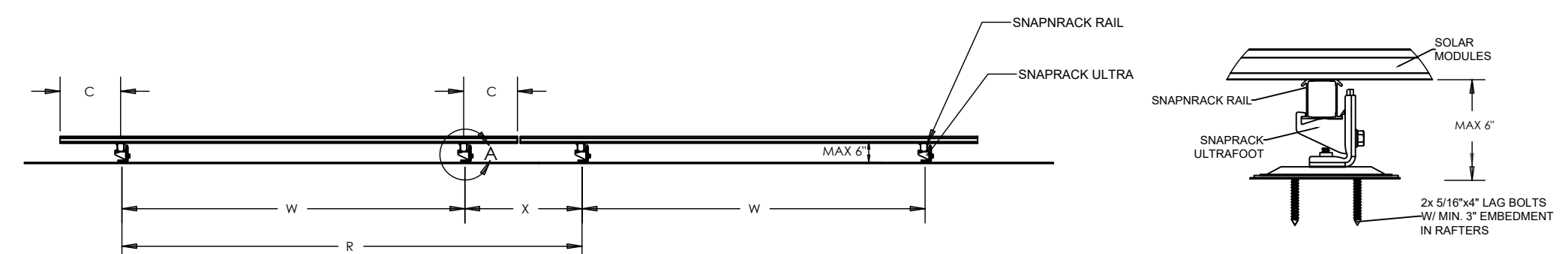
DESIGNER:	M. AFFENTRANGER	SHEET:	1:2	DRAWING NUMBER:	SNR-DC-01508	DESCRIPTION:	ULTRA RAIL ATTACHMENT DETAIL, ULTRAFOOT DECK	REV:	A
DRAFTER:	H. WULFEOETTER	DATE:	8/26/2024						
APPROVED BY:	M. AFFENTRANGER								



FASTENER CONFIGURATIONS

- (X4) WOOD SCREWS INTO DECK
- (X2) SELF-DRILLING SCREW INTO METAL PURLIN (PRIMARY)
- (X2) WOOD SCREWS INTO RAFTER (PRIMARY)
- (X2) WOOD SCREWS INTO RAFTER (ALTERNATIVE)
- (X2) SELF-DRILLING SCREW INTO METAL PURLIN (ALTERNATIVE)

DESIGNER:	M. AFFENTRANGER	SHEET:	2:2	DRAWING NUMBER:	SNR-DC-01508	DESCRIPTION:	ULTRA RAIL ATTACHMENT DETAIL, ULTRAFOOT DECK	REV:	A
DRAFTER:	H. WULFEOETTER	DATE:	8/26/2024						
APPROVED BY:	M. AFFENTRANGER								





ROOF	MODULE COUNT	AZIMUTH	TILT	SHADING	LANDSCAPE ATTACHMENT MAX SPAN (ROOF AREA 1/2/3)	PORTRAIT ATTACHMENT MAX SPAN (ROOF AREA 1/2/3)
R1	4	179°	32°	54%	80/72/72	80/72/72

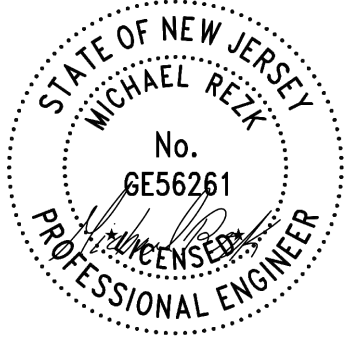


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6093140054

PV SYSTEM INFORMATION

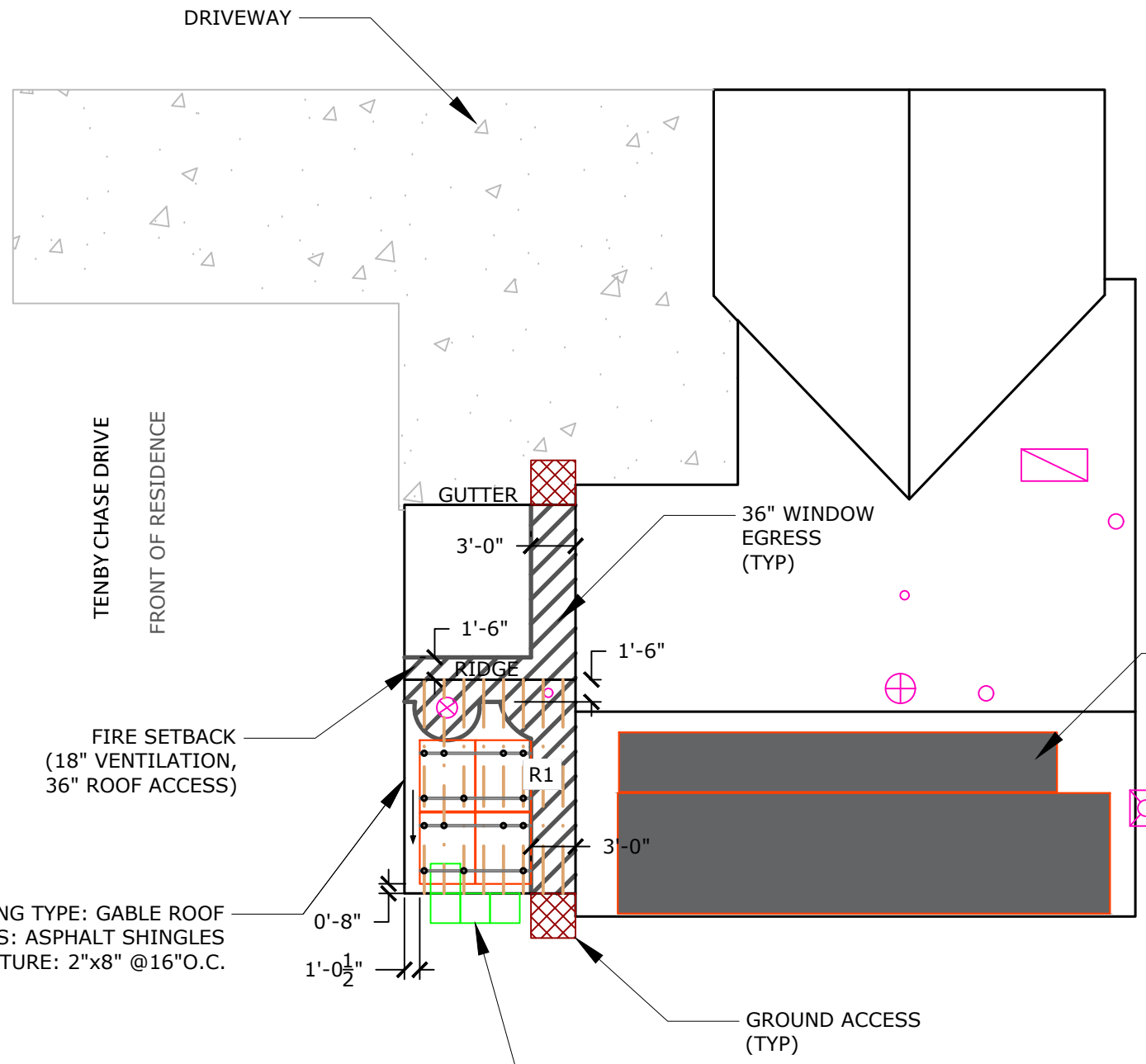
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PROJECT INFORMATION - MS181945

INITIAL	DATE: 3/9/2026	DESIGNER: [Signature]
REV:	DATE:	DESIGNER:
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PANEL LAYOUT

PV-2



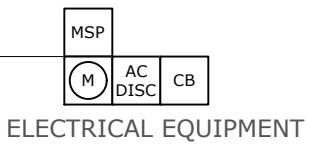
TOTAL SQUARE FOOTAGE OF ROOF: 2490 SQFT
SQUARE FOOTAGE OF SOLAR ARRAY: 84.1 SQFT
PERCENTAGE OF SOLAR ROOF COVERAGE: 3.38%
18" RIDGE SETBACK SHALL BE REQUIRED

SYMBOL LEGEND

MSP	MAIN SERVICE PANEL		CHIMNEY
SP	SUB-PANEL		SKYLIGHT
M	UTILITY METER		VENT
AC DISC	AC DISCONNECT		PIPE VENT
UDC	UTILITY DISCONNECT		FAN
LC	LOAD CENTER		SATELLITE DISH
N3R	NEMA 3R BOX W/ ENVOY-S		FIRE SETBACKS
CB	COMBINER BOX		GROUND ACCESS
PF	PERFORMANCE METER		PITCH DIRECTION
	MODULE		

EXISTING FRAMING TYPE: GABLE ROOF
ROOF MATERIALS: ASPHALT SHINGLES
EXISTING ROOF STRUCTURE: 2"x8" @16"O.C.

FIRE SETBACK
(18" VENTILATION,
36" ROOF ACCESS)



SITE PLAN
SCALE: 3/32" = 1'-0"

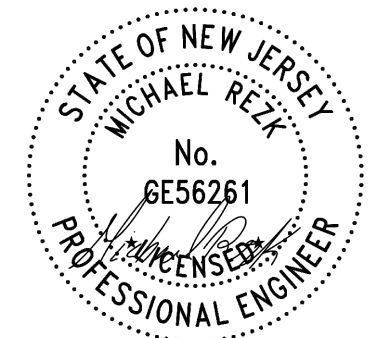
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ELECTRICIAN

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MATT FRANZ
325 HIGH STREET
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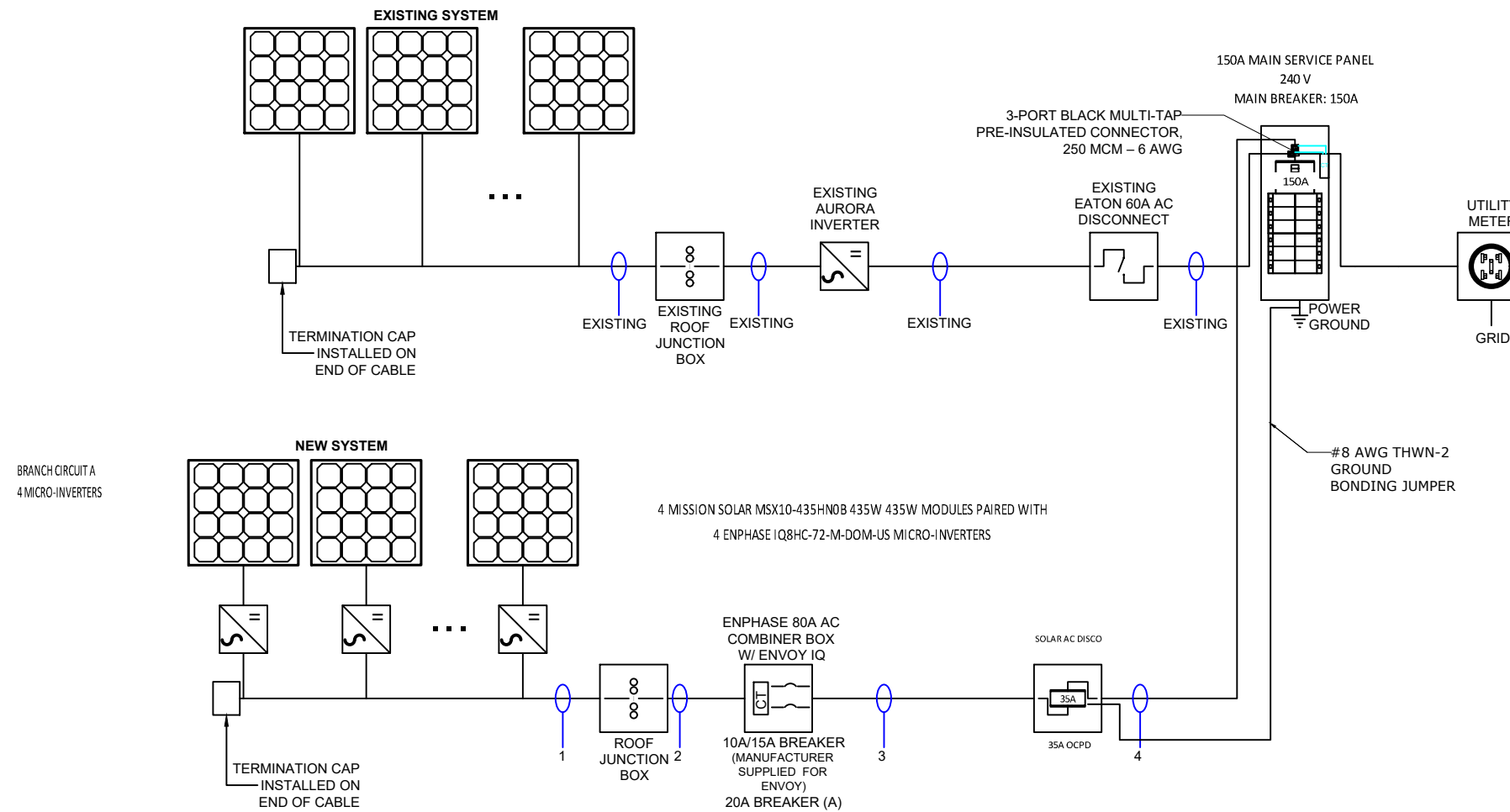
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INITIAL	DATE: 3/9/2026	DESIGNER: JY
REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

ELECTRICAL PV-3



ELECTRICAL NOTES:

1. ALL CALCULATIONS FOR VOC, VMAX, IMP AND ISC HAVE BEEN CALCULATED USING THE MANUFACTURED STRING CALCULATOR BASED ON ASHRAE 2% HIGH AND EXTREME MINIMUM TEMPERATURE COEFICIENTS.
2. THE ENTIRE ARRAY IS BONDED ACCORDING TO (NEC 690.46 - 250.120 PARAGRAPH C).
3. THIS SYSTEM COMPLIES WITH NEC 2020
4. BRANCH CIRCUIT CALCULATION FOR WIRE TAG 1 DISPLAYS THE LARGEST BRANCH CIRCUIT IN SYSTEM. OTHER BRANCH CIRCUITS WILL HAVE LOWER DESIGN CURRENT THAN THE ONE SHOWN.
5. ALL CONDUCTORS ARE SIZED BASED ON NEC 2020 ARTICLE 310

6. ALL EQUIPMENT INSTALLED IS RATED AT 75°C UNLESS NOTED
7. INVERTER NOC (NOMINAL OPEN CURRENT) OBTAINED FROM EQUIPMENT DATA SHEET
8. SYSTEM IS CONSIDERED AN AC MODULE SYSTEM. NO DC CONDUCTORS ARE PRESENT IN CONDUIT, COMBINER, JUNCTION BOX, DISCONNECT. AND COMPILES WITH 690.6- NO DC. DISCONNECT AND ASSOCIATED DC CABLING ARE REQUIRED.
9. CONDUCTORS IN CONDUIT ARE AC CONDUCTORS - BRANCH CIRCUITS AND NOT PV SOURCE CIRCUITS 690.6.

10. SYSTEM COMPLIES WITH 690.12 RAPID SHUTDOWN AND ASSOCIATED LABELING AS PER 690.56(C). AC VOLTAGE AND SYSTEM OPERATING CURRENT SHALL BE PROVIDED AS PER 690.52.
11. ALL GROUNDING SHALL COMPLY WITH 690.47(A) IN THAT THE AC MODULES SHALL COMPLY WITH 250.64.
12. NO TERMINALS WILL BE ENERGIZED IN THE OPEN POSITION IN THIS AC MODULE SYSTEM 690.6, 690.15.
13. WHERE APPLICABLE, INTERCONNECTION SHALL COMPLY WITH 705.12(B)(2)(3)(b), 705.12(A) AS PERMITTED BY 230.86(6)
14. WHERE APPLICABLE, SOLAR OVERCURRENT PROTECTION FOR SUPPLY SIDE CONNECTION SHALL BE LOCATED WITHIN 10FT OF THE INTERCONNECTION POINT.

PERMANENT LABEL & LOCATION
CUSTOMER OWNED PARALLEL GENERATION
LABELS ARE WEATHER UV RATED RED PLASTIC WITH WHITE LETTERS

- (A) LOAD CENTER: WARNING DUAL POWER SOURCE. SECOND SOURCE IS PV SYSTEM.
- (B) WARNING INVERTER OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT BACKFED DEVICE

- (C) AC DISCONNECT: PV AC DISCONNECT 690.15
- (D) WARNING ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH LINE & LOADSIDES MAY BE ENERGIZED IN THE OPEN POSITION.
- (E) INVERTER: WARNING ELECTRICAL SHOCK HAZARD. IF A GROUND FAULT IS INDICATED, NORMALLY GROUNDING CONDUCTORS MAY BE UN-GROUNDED AND ENERGIZED.


- (F) JUNCTION BOX: WARNING ELECTRICAL SHOCK HAZARD. THE DC CONDUCTORS OF THIS PHOTOVOLTAIC SYSTEM ARE UNGROUNDED AND MAY BE ENERGIZED
- (G) CONDUIT/CABLE EVERY 10 FEET: CAUTION: SOLAR CIRCUIT

Wire Tag	Conduit	Wire Qty	Wire Gauge	Wire Type	Temp. Rating	Wire Ampacity (A)	Temp. Derate	Conduit Fill Derate	Derated Ampacity (A)	Inverter Qty	NOC (A)	NEC Correction	Design Current (A)	Ground Size	Ground Wire Type
1	OPEN AIR	2	12 AWG	Trunk Cable	90°C	30	0.96	1	28.80	4	1.58	1.25	7.90	08 AWG	THWN-2
2	3/4" PVC	2	10 AWG	THWN-2	90°C	40	0.96	1	38.40	4	1.58	1.25	7.90	08 AWG	THWN-2
3	3/4" PVC	3 + G	08 AWG	THWN-2	75°C	50	0.96	1	48.00	4	1.58	1.25	7.90	08 AWG	THWN-2
4	3/4" PVC	3	06 AWG	THWN-2	75°C	65	0.96	1	62.40	4	1.58	1.25	7.90		THWN-2

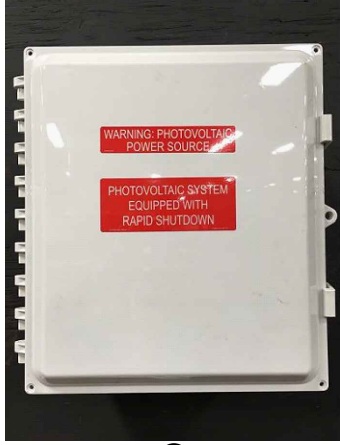
NOTE: LETTER "G" IN WIRE QTY TAB STANDS FOR GROUNDING CONDUCTOR.

TAG	LABEL	QUANTITY	LOCATION	NOTE
(A)		12	AC CONDUITS	1 AT EVERY SEPARATION BY ENCLOSURES / WALLS / PARTITIONS / CEILINGS / FLOORS OR NO MORE THAN 10'
(B)	 	1	COMBINER BOX	1 AT ANY COMBINER BOX
(C)		1	JUNCTION BOX	1 AT ANY JUNCTION BOX
(D)	 	1	AC DISCONNECT	1 OF EACH AT FUSED AC DISCONNECT COMPLETE VOLTAGE AND CURRENT VALUES ON DISCONNECT LABEL
(E)		1	PV METER SOCKET	1 AT PV METER SOCKET AND ONE DIRECTORY PLACARD
(F)	 	1	UTILITY METER	1 AT UTILITY METER AND ONE DIRECTORY PLACARD
(G)	 	1	INTERCONNECTION POINT	1 OF EACH AT BUILDING INTERCONNECTION POINT AND ONE DIRECTORY PLACARD
(H)		1	AC CURRENT PV MODULES	


EXAMPLES




(A)




(B)



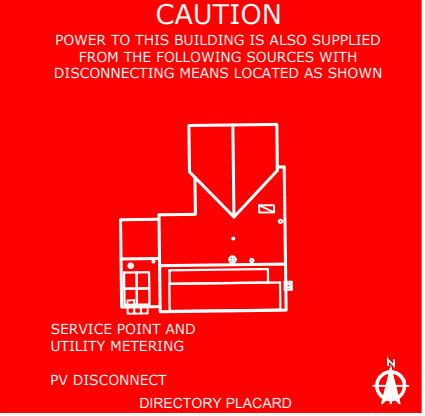
(C)




(D)




(E)



(F)



(G) BACKFEED



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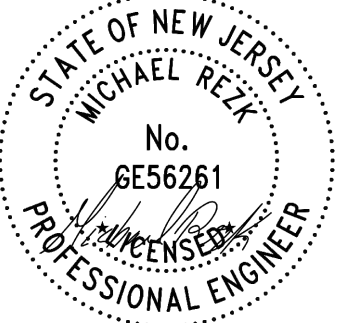
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EQUIPMENT LABELS

PV-4

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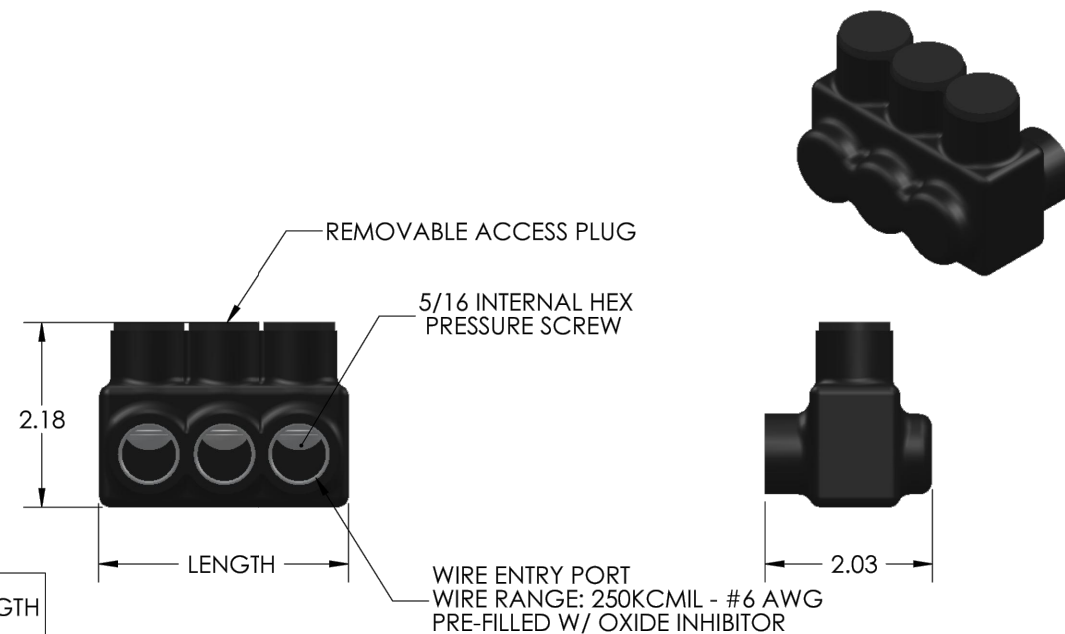
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REV:	DATE:	DESIGNER:
REV:	DATE:	DESIGNER:

POLARIS TAPS SPECS

PV-5




IPL250-3 SHOWN

PART NUMBER	NO. OF PORTS	LENGTH
IPL250-3	3	2.93
IPL250-4	4	3.80
IPL250-5	5	4.66
IPL250-6	6	5.22
IPL250-8	8	7.24
IPL250-10	10	8.97

- NOTES:
- CONNECTOR MANUFACTURED FROM 6061-T6 ALUMINUM ALLOY.
 - UL LISTED PER UL486A/B SPECIFICATIONS FOR 600V.
 - DUAL RATED FOR 90°C COPPER AND/OR ALUMINUM CONDUCTOR.
 - COLD TEMPERATURE RATED TO -45°C.
 - HIGH DIELECTRIC STRENGTH INSULATION IS ABRASION, CHEMICAL AND UV RESISTANT.

CONTACT NSI FOR SALES @ 800.321.5847

		POLARIS SALES CO. INC
PROPRIETARY AND CONFIDENTIAL		11625 PROSPEROUS DRIVE ODESSA, FL 33556
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF POLARIS SALES CO. INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF POLARIS SALES CO. INC. IS PROHIBITED.		TITLE: INSULATED 250 CONNECTOR
NAME	DATE	DWG. NO.
S.PARRY	06/2012	IPL250-
MATERIAL: N/A	SCALE: N/A	SHEET: 1 OF 1

3-Port Black Multi-Tap Pre-Insulated Connector, 250 MCM – 6 AWG

Insulated Mechanical Connectors

#IPL250-3

Polaris Black Multi-Tap Connectors form secure connections between multiple conductors with a rounded design and UV-resistant insulation coating. Installs with a hex key and torque wrench, with no need for cover and taping.

- One-Side Wire Entry: Form secure connections between 3 conductors quickly using the single-side entry ports sized for wires between 250 MCM and 6 AWG. . Suitable for use on the line side of the service equipment as per the NEC article 230.46 requirement.
- Ergonomic Design: Rounded corners and a smooth exterior finish over the plastisol insulation make Polaris connectors comfortable to grip
- Removable Plugs: Each port and adjustable set screw is covered by a secure plug to prevent debris, moisture or contaminants from entering the insulated connector
- Pre-filled Oxide Inhibitor: All 3 single-side entry ports come pre-filled with an oxide inhibitor gel to prevent corrosion and provide low-contact resistance
- Professional Performance: The durable layer of insulation on each Polaris connector is UV, abrasion and chemical-resistant for reliable performance