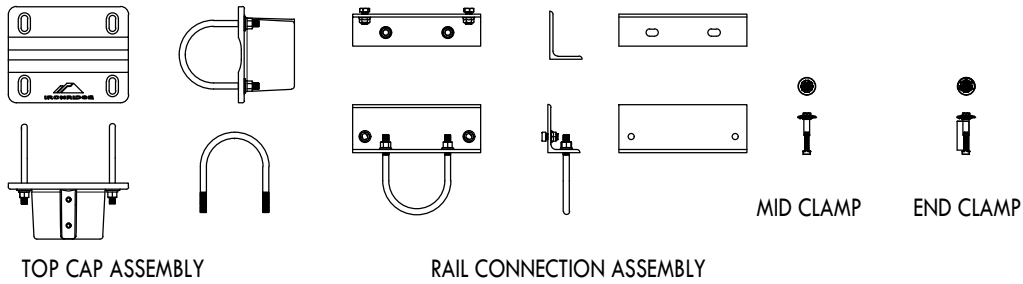


IRONRIDGE GROUND MOUNT FOR PV PANEL GENERAL NOTES:

1. APPLICABLE CODES & STANDARDS:  
- 2020 FLORIDA BUILDING CODE (7TH EDITION)  
- ASCE-7-16 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.
2. GROUND RACK SHOWN MAY BE SLOPED UP TO A MAXIMUM 20°.
3. SOIL BEARING CAPACITY ASSUMED TO BE THE FOLLOWING: UNDISTURBED COMPACTED SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL AND CLAYEY GRAVEL WITH VERTICAL FOUNDATION PRESSURE OF 2,000 PSF AND LATERAL BEARING PRESSURE OF 150 PSF / FT BELOW NATURAL GRADE THAT CONTINUES TO HOLD IT SHAPE BEFORE AND AFTER INSTALLATION. INSTALL ALL GROUND SCREWS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
4. REFER TO IRONRIDGE FOR ALL COMPONENT SPECIFICATION AND INSTALLATION INSTRUCTIONS.
5. CONTRACTOR/INSTALLER SHALL INSTALL GROUND RACK SYSTEM WITHIN NEW OR EXISTING PROPERTY SETBACKS PER GOVERNING BUILDING DEPARTMENT.
6. THIS SHEET REFLECTS STRUCTURAL CONNECTIONS AND STRUCTURAL DETAILS OF GROUND RACK ONLY. INSTALL SOLAR PV MODULES PER MANUFACTURER RECOMMENDATIONS.
7. APPROVED GROUND SCREWS MANUFACTURED BY KRINNER FOUNDATIONS AND/OR AMERICAN GROUND SCREWS.
8. ALL DISSIMILAR METALS & MATERIALS SHALL BE SEPARATED WITH NEOPRENE OR EQUAL.

-- DESIGN CRITERIA FOR GROUND RACK AND ALL CONNECTIONS THIS SHEET IS BASED ON MAIN WIND FORCE RESISTING SYSTEM (MWFRS) NOMINAL WIND SPEED UP TO 110 MPH WITH EXPOSURE "B", RISK CATEGORY I, MONOSLOPE FREE ROOF AND h < 15'-0" PER ASCE 7-16 "MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES" AND 2020 F.B.C. (7TH EDITION). SITE SPECIFIC ENGINEERS APPROVAL IS REQUIRED IF SITE REQUIREMENTS EXCEEDS DESIGN CRITERIA.



GROUND RACK CONNECTION DETAILS

SCALE: 1"=1'-0"

3  
PV.2

IRONRIDGE GROUND MOUNT COMPONENT CONNECTION DETAILS

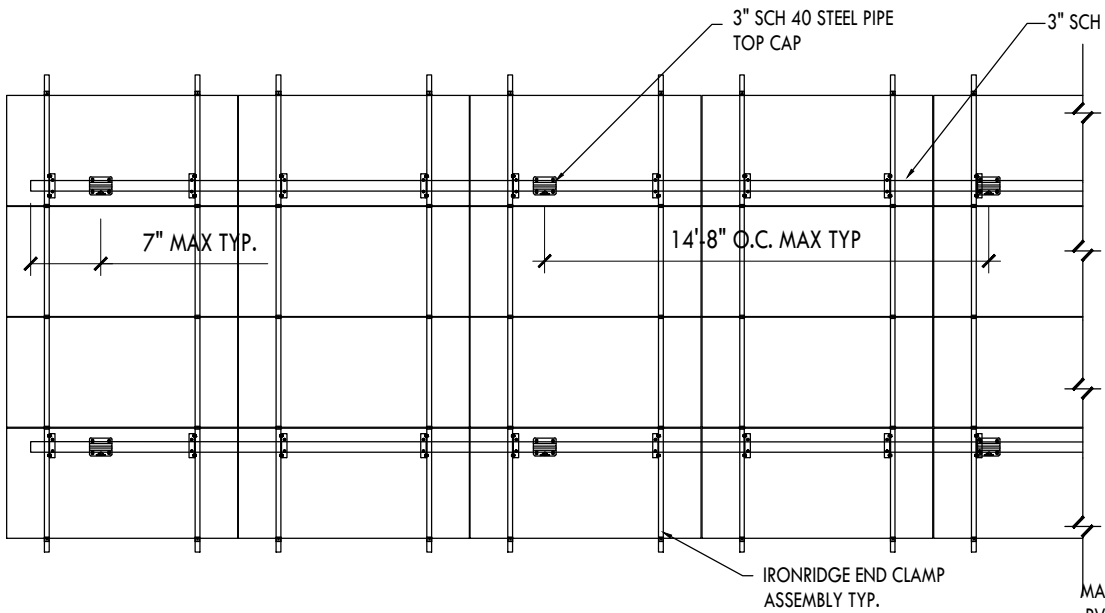
SCALE: 1/4"=1'-0"

2  
PV.2

IRONRIDGE GROUND MOUNT SIDE VIEW

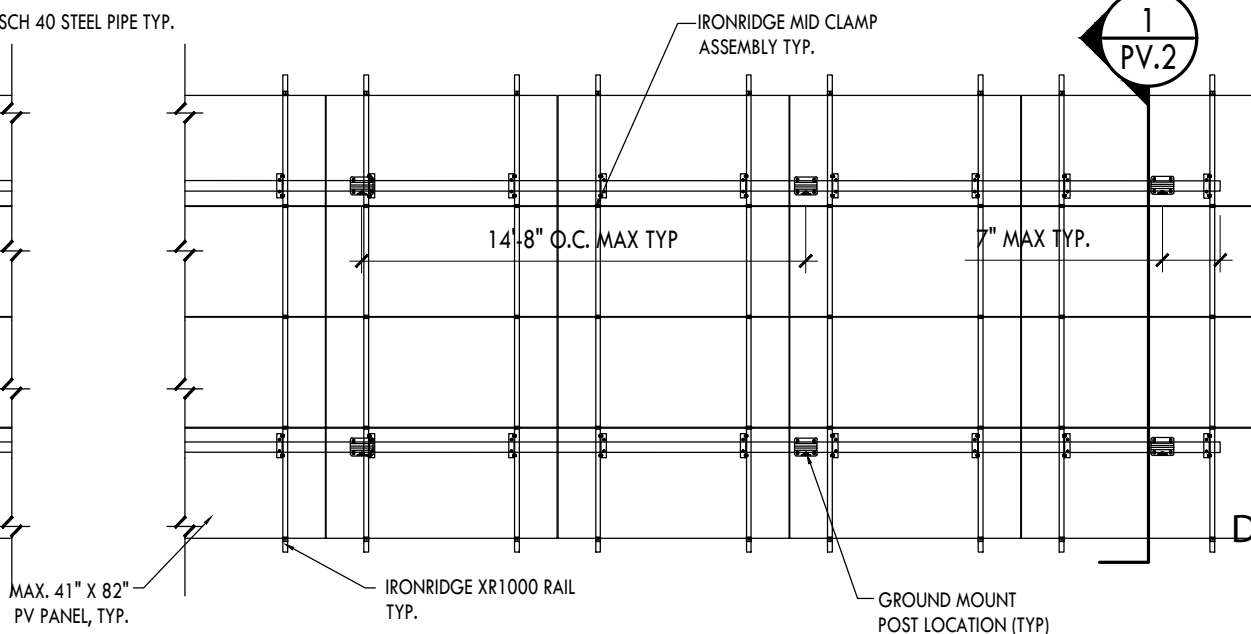
SCALE: 1/4"=1'-0"

1  
PV.2



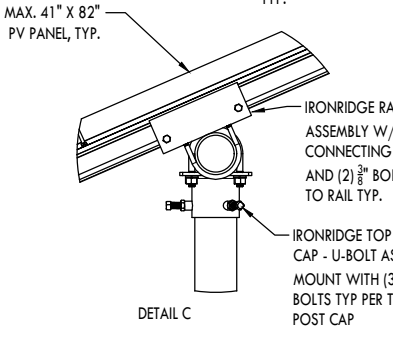
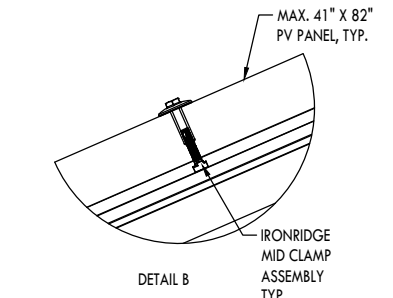
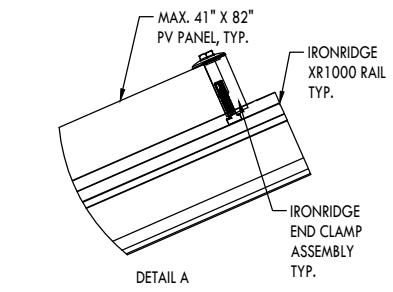
IRONRIDGE GROUND MOUNT PLAN

SCALE: 3/16"=1'-0"



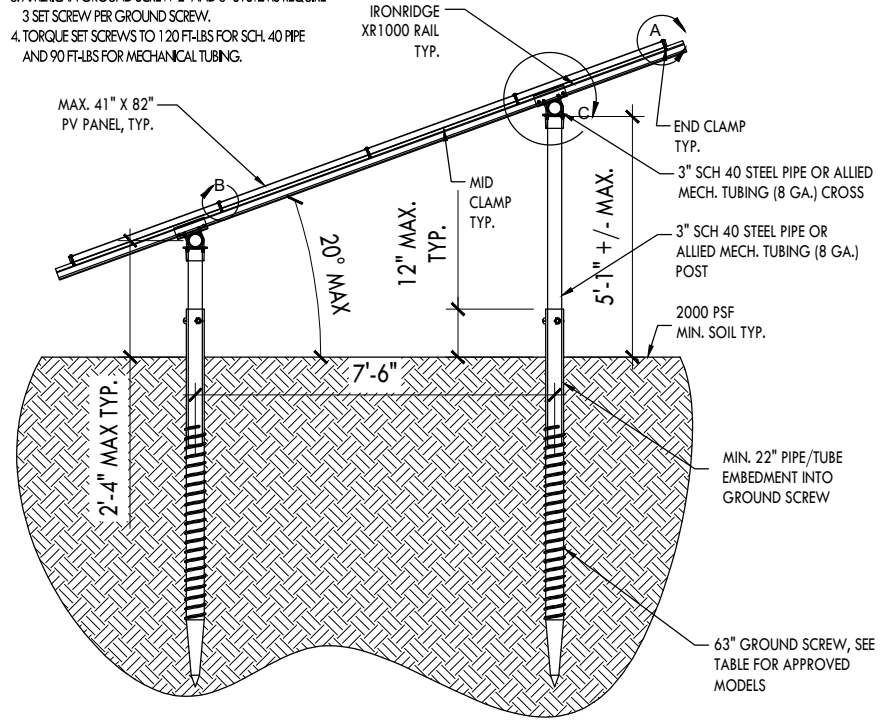
MAX. 41" X 82" PV PANEL, TYP.

IRONRIDGE XR1000 RAIL TYP.



APPROVED GROUND SCREW SYSTEMS	
MANUFACTURER	3" PER SYSTEM
AMERICAN GROUND SCREW	MODEL 3 102mm X 375 (+)mm
KRINNER NORTH AMERICA	KSF G114

1. HEX HEAD SET SCREW MUST BE M16-2.0 X 40mm HOT-DIP GALVANIZED BOLTS.
2. KRINNER NORTH AMERICA SYSTEMS REQUIRE 4 SET SCREWS PER GROUND SCREW.
3. AMERICAN GROUND SCREW 2" AND 3" SYSTEMS REQUIRE 3 SET SCREW PER GROUND SCREW.
4. TORQUE SET SCREWS TO 120 FT-LBS FOR SCH. 40 PIPE AND 90 FT-LBS FOR MECHANICAL TUBING.



REV	DATE	REMARK

PROJECT:  
PHOTOVOLTAIC SOLAR ENERGY SYSTEM  
PROJECT NAME: GOODENBURY RESIDENCE  
PROJECT ADDRESS: 1431 SE MYRTIS RD.  
LAKE CITY, FL 32025

DATE	10/6/22
DRAWN BY:	JLL
CHECKED BY:	JLA
REC. NO. #	29127
SCALE	AS NOTED

DRAWING #  
PV.S  
SHEET 1 OF 1

Digitally signed  
by John L  
Antonelli

Date: 2022.10.06

15:43:45 -04'00



P.E.

This form has been electronically signed and sealed by the Professional Engineer. The digital signature and seal are not considered valid unless the original signature and seal are presented for verification. The original signature and seal are not considered valid unless the original signature and seal are presented for verification. The original signature and seal are not considered valid unless the original signature and seal are presented for verification.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS.