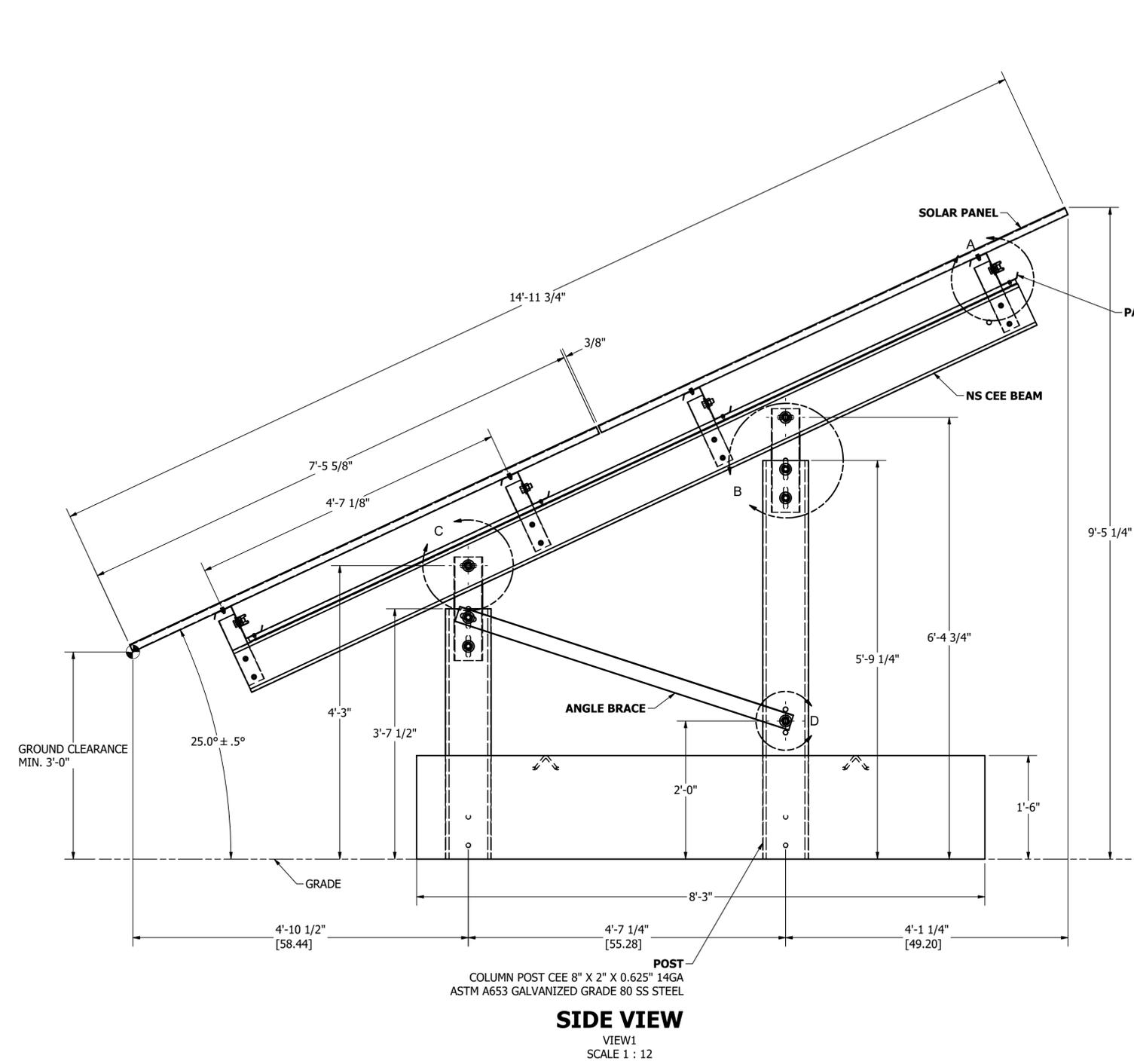
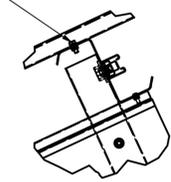


**APPENDIX- A  
STRUCTURAL DETAIL DRAWING**

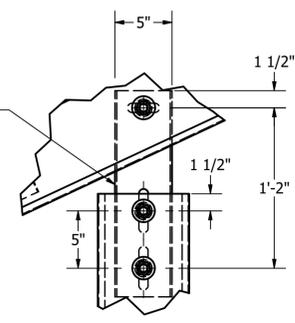
ALL PANEL MOUNTING HARDWARE CALLED OUT BELOW WILL BE PROVIDED BY DCE SOLAR. ANY CUSTOMIZED PANEL MOUNTING HARDWARE PROVIDED BY OTHERS MAY VOID DCE SOLAR'S UL2703 CERTIFICATION.



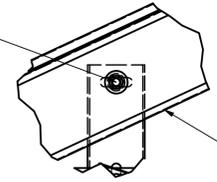
PANEL ATTACHES TO PANEL BEAMS WITH (4) 5/16-18 X 3/4" SERRATED FLANGE CAP SCREWS AND 5/16-18 SERRATED FLANGE NUTS. TORQUE TO 15 FT-LBS.



**TOP BEAM ADAPTER**  
5" X 1.75" X 18" X 8G CHANNEL  
ASTM A653 GALVANIZED GRADE 50 SS STEEL  
ATTACHES TO NS BEAM AND COLUMN POST WITH (3) 3/4-10 X 1.5" SERRATED FLANGE CAP SCREW, WASHER, AND SERRATED FLANGE NUT. TORQUE TO 250 FT-LB.

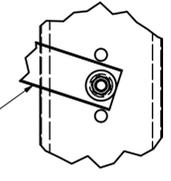


ANGLE BRACE ATTACHES TO NS BEAM WITH (1) 3/4-10 X 1.5" GRADE 5 STEEL HHCS, WASHER, AND SERRATED FLANGE NUT. TORQUE TO 250 FT-LBS.



**NS BEAM**  
8" X 2" X 0.625"  
14 GAUGE  
ASTM A653 GALVANIZED  
GRADE 80 SS STEEL

**ANGLE BRACE**  
2.75" X 1.75" U-CHANNEL,  
14 GAUGE  
ASTM A653 GALVANIZED  
GRADE 50 SS STEEL



PROJECT INFORMATION	
INSTALLATION ADDRESS: 1501 NJ 70, Whiting, NJ 08759	
Structural General Notes	
1. The contractor will be solely responsible for all construction means, methods, techniques, sequences and procedures and shall at all times take reasonable precautions for the safety of its employees on the project, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building construction codes.	
2. If existing conditions make it necessary to revise structural details, consult DCE Solar before proceeding with any change.	
3. These drawings and notes are for this specific project and no other use is authorized.	
4. Structure designed in accordance with the 2021 International Building Code, ASCE 7-16, AISC 360-16 (14th Edition), and AISI S100-16: ASD	
Snow Loads: -Ground Snow Load pg = 20 psf -Importance Factor Is = 0.8 -Exposure Factor Ce = 0.9 -Slope Snow Load ps = 9.90 psf	
Wind Loads: -MRI Factor = 1.00 -Basic Wind Speed V = 109 mph -Iw = 1 -Exposure = C -Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWU BLWT Laboratory dated 12/11/14.	
Seismic Loads: -SS = 0.185g, S1 = 0.047g -Site Class = D -SDS = 0.200g, SD1 = 0.080g -Seismic Design Category = B -Ordinary Steel Cantilever Column System	
5. Material strengths: -Hot-rolled structural steel ASTM A992 GR50. -Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted. -Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS -I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85 -Plate - A36 Steel, Hot Dip Galvanized -Connectors - Stainless Steel unless otherwise noted.	
6. Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.	
7. For the purposes of this project, all arrays are classified as Exterior Arrays.	
8. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.	
Engineer of Record	

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REVISION HISTORY			
REV	DESCRIPTION	DESIGNER	DATE
0	STRUCTURAL DETAIL DRAWING	CPATTERSON	5/13/2025
1	REVISED GML ON PAGE 5	CPATTERSON	6/2/2025
2	REMOVED 2X7 TABLE, REVISED GML ON PAGE 5	CPATTERSON	7/23/2025

<p>DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS: .X = ± 0.100" (2.54mm) .XX = ± 0.030" (0.76mm) .XXX = ± 0.010" (0.25mm) ANGLE = ± 5° MIN. BREAK = 0.012" (0.3mm) SURFACE FINISH = 63 (US)</p>		Material: Weight: 9325.856 lbmass Description: <b>CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY LLC</b> Project: MANCHESTER TOWNSHIP LANDFILL Drawn: CPATTERSON Date: 7/23/2025 Scale: 1 of 5
**PROPRIETARY AND CONFIDENTIAL** THIS DRAWING AND ALL INFORMATION THEREIN IS THE PROPERTY OF DCE SOLAR AND IS CONFIDENTIAL AND MUST NOT BE MADE PUBLIC OR COPIED UNLESS AUTHORIZED BY DCE SOLAR AND IS SUBJECT TO RETURN UPON REQUEST.		Format: D Part Number: <b>6523</b> Rev: 2

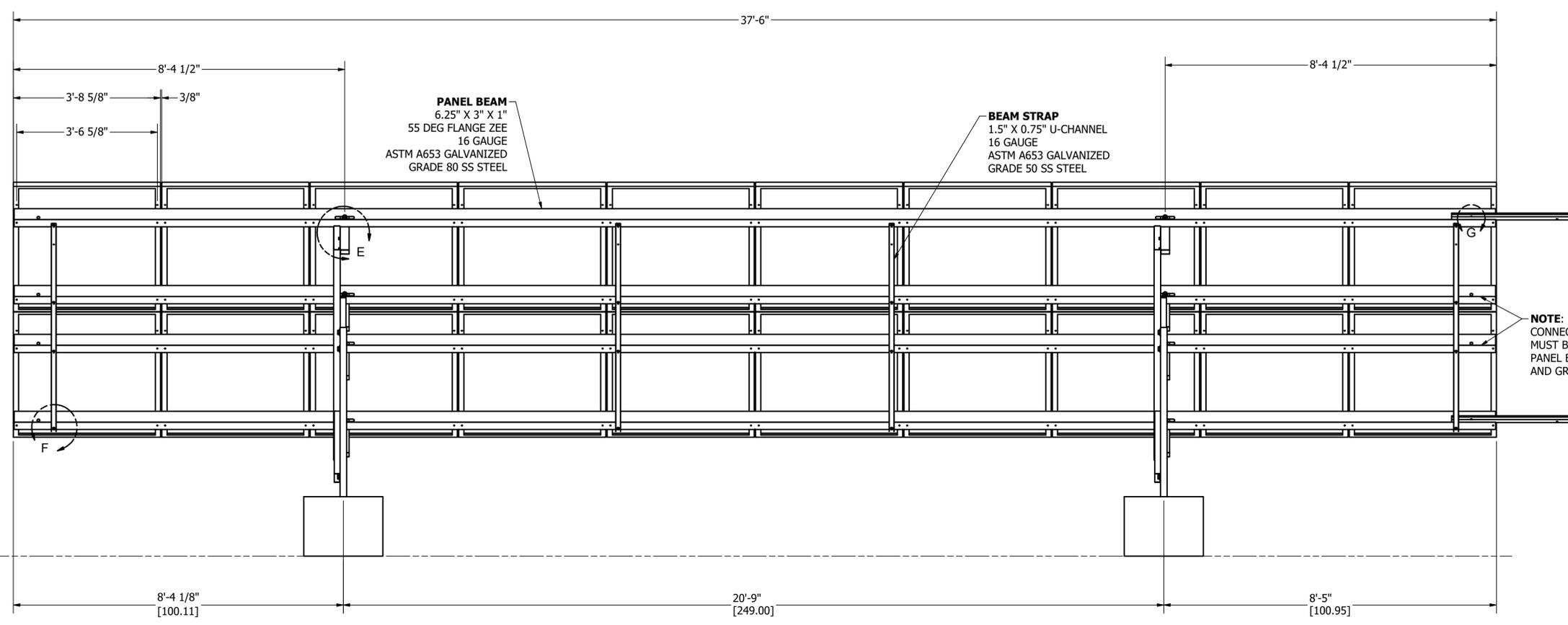
STRUCTURAL DETAIL DRAWING - REAR

PROJECT INFORMATION

INSTALLATION ADDRESS:  
1501 NJ 70, Whiting, NJ 08759

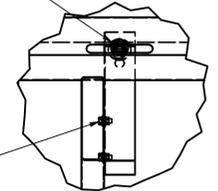
Structural General Notes

- The contractor will be solely responsible for all construction means, methods, techniques, sequences and procedures and shall at all times take reasonable precautions for the safety of its employees on the project, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building construction codes.
- If existing conditions make it necessary to revise structural details, consult DCE Solar before proceeding with any change.
- These drawings and notes are for this specific project and no other use is authorized.
- Structure designed in accordance with the 2021 International Building Code, ASCE 7-16, AISC 360-16 (14th Edition), and AISI S100-16: ASD Snow Loads:  
-Ground Snow Load  $p_g = 20$  psf  
-Importance Factor  $I_s = 0.8$   
-Exposure Factor  $C_e = 0.9$   
-Slope Snow Load  $p_s = 9.90$  psf  
Wind Loads:  
-MRI Factor = 1.00  
-Basic Wind Speed  $V = 109$  mph  
- $I_w = 1$   
-Exposure = C  
-Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UW0 BLWT Laboratory dated 12/11/14.  
Seismic Loads:  
-SS = 0.185g, S1 = 0.047g  
-Site Class = D  
-SDS = 0.200g, SD1 = 0.080g  
-Seismic Design Category = B  
-Ordinary Steel Cantilever Column System
- Material strengths:  
-Hot-rolled structural steel ASTM A992 GR50.  
-Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted.  
-Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS  
-I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85  
-Plate - A36 Steel, Hot Dip Galvanized  
-Connectors - Stainless Steel unless otherwise noted.
- Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.
- For the purposes of this project, all arrays are classified as Exterior Arrays.
- Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.



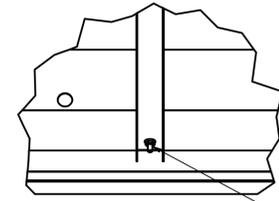
**REAR VIEW**  
VIEW3  
SCALE 1 / 20

ZEE BEAM ATTACHES TO PIVOT BRACKET USING (1) 3/4-10 GRADE 5 COATED STEEL HHCS, WASHER, AND SERRATED FLANGE NUT. TORQUE TO 250 FT-LBS.



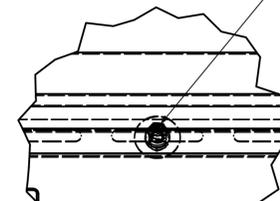
DETAIL E  
SCALE 1 / 8

ZEE BEAM ATTACHES TO CEE BEAM USING PIVOT BRACKET 3" X 2.7" X 12.375" 14G CHANNEL ASTM A653 GRADE 80 SS STEEL G115 GALVANIZED. BRACKET ATTACHES TO NS BEAM WITH (2) 18-8 SS 3/8-16 SERRATED FLANGE CAP SCREWS AND SERRATED FLANGE NUTS. TORQUE TO 20 FT-LBS.



DETAIL F  
SCALE 1 / 5

BEAM STRAP ATTACHES TO PANEL BEAM WITH (2) 18-8 SS 1/4-20 FLANGED BUTTON HEAD CAP SCREWS AND SERRATED FLANGE NUTS. TORQUE TO 15 FT-LBS



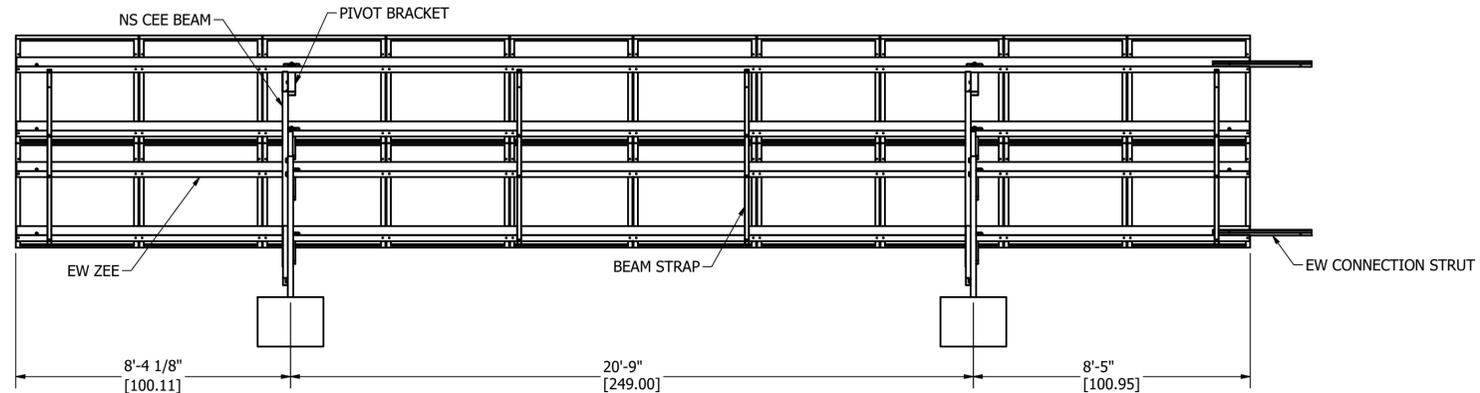
DETAIL G  
SCALE 1 / 3

NEIGHBORING TABLES BONDED VIA 18G CHANNEL STRUTS. STRUTS CONNECT TO EW PANEL ZEE BEAMS WITH (2) 18-8 SS 3/8-16 SERRATED FLANGE CAP SCREWS, FENDER WASHERS, AND SERRATED FLANGE NUTS. TORQUE TO 20 FT-LBS.

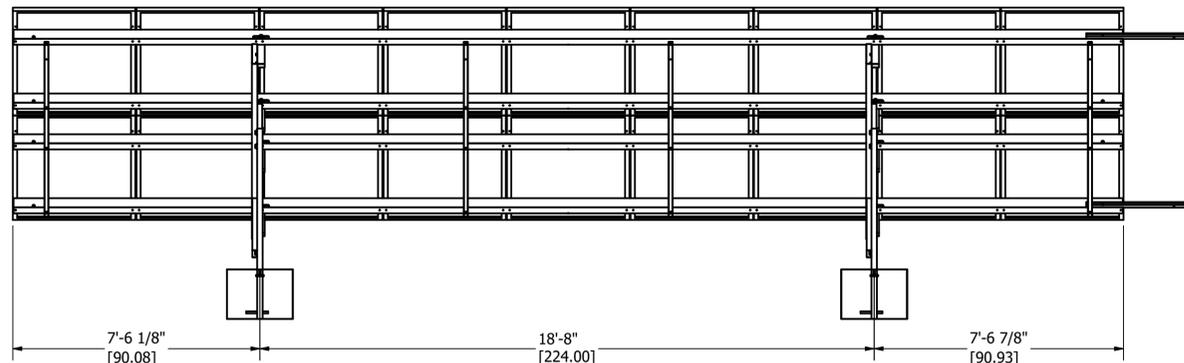
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<p>DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS: .X = ± 0.100" (2.54mm) .XX = ± 0.030" (0.76mm) .XXX = ± 0.010" (0.25mm) ANGLE = ± 5° MIN. BREAK = 0.012" (0.3mm) SURFACE FINISH = 63 (US)</p>	Material:	9325.856 lbmass	
	Description:	<b>CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY LLC</b>	
Project:	MANCHESTER TOWNSHIP LANDFILL		
Drawn:	CPATTERSON	Date:	7/23/2025
Scale:		Sheet:	2 of 5
Format:	D	Part Number:	<b>6523</b>
Rev:			2

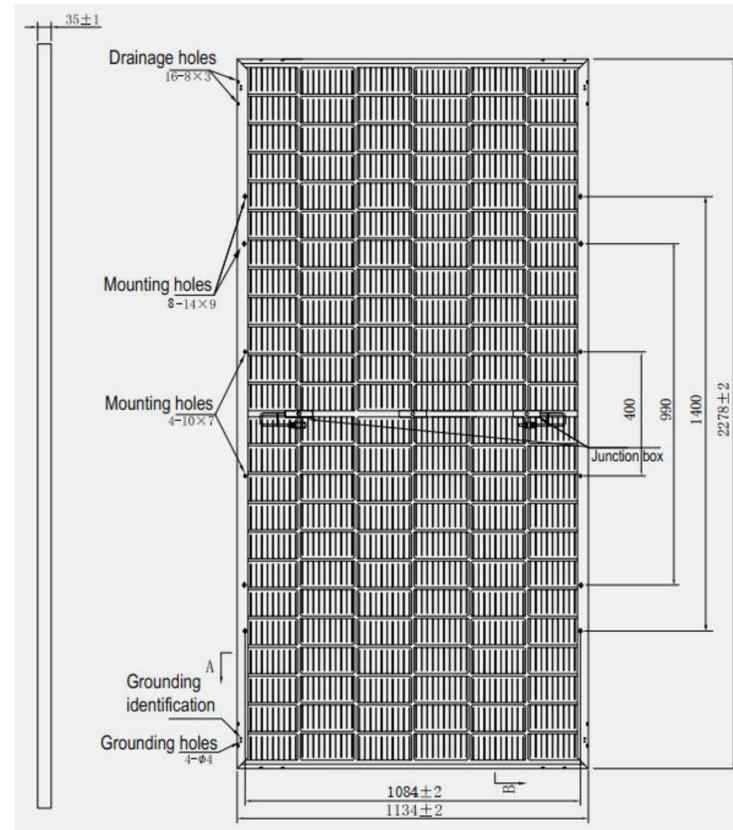


**REAR VIEW**  
**2X10 ARRAY**  
 VIEW13  
 SCALE 0.03 : 1



**REAR VIEW**  
**2X9 ARRAY**  
 VIEW27  
 SCALE 0.03 : 1

PANEL SPECIFICATION				PROJECT INFORMATION
NAME	DESCRIPTION			INSTALLATION ADDRESS:
MANUFACTURER	ZNSHINE			1501 NJ 70, Whiting, NJ 08759
MODEL	ZXM7-SHDB144			Structural General Notes
LENGTH (mm)	2278			1. The contractor will be solely responsible for all construction means, methods, techniques, sequences and procedures and shall at all times take reasonable precautions for the safety of its employees on the project, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building construction codes.
WIDTH (mm)	1134			
THICKNESS (mm)	35			
MATERIAL DESCRIPTION				
MEMBER	SHAPE	MATERIAL	GAGE	2. If existing conditions make it necessary to revise structural details, consult DCE Solar before proceeding with any change.
PANEL BEAM	6.25Z3X1X55DEG	A653 SS Gr80	16GA	
NS CEE BEAM	8CS2X0.625	A653 SS Gr80	14GA	
KICKER BRACE	2.75CU1.75	A653 SS Gr50	14GA	
BEAM BRACE	1.5CU0.75	A653 SS Gr50	16GA	
POST	CEE POST 8 X 2 X .625	A653 SS Gr80	14GA	3. These drawings and notes are for this specific project and no other use is authorized.
NOTES				
*ADJUSTED UPLIFT IS ASSUMED AS 70% OF THE DOWNWARD LOAD. IT'S RECOMMENDED TO USE THIS LOAD FOR PULL TEST IN CASE PUSH TEST CANNOT BE PERFORMED.				4. Structure designed in accordance with the 2021 International Building Code, ASCE 7-16, AISC 360-16 (14th Edition), and AISI S100-16: ASD Snow Loads: -Ground Snow Load pg = 20 psf -Importance Factor Is = 0.8 -Exposure Factor Ce = 0.9 -Slope Snow Load ps = 9.90 psf
1: USE ADJUSTED UPLIFT IF NO REFUSAL IS ENCOUNTERED.				
2: USE UPLIFT FORCE IN CASE OF REFUSAL.				
3: FOR UPLIFT AND LATERAL FORCES USE SAFETY FACTOR OF 1.5 AND 2, RESPECTIVELY.				Wind Loads: -MRI Factor = 1.00 -Basic Wind Speed V = 109 mph -Iw = 1 -Exposure = C -Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWU BLWT Laboratory dated 12/11/14.
IN-FIELD PILE REMEDIATION				
ANY IN-FIELD REMEDIATION REQUIRING THE CUTTING OR DRILLING OF GALVANIZED MATERIAL SHOULD FOLLOW ONE OF THESE TWO GUIDELINES TO COAT AND TREAT METALS THAT ARE EXPOSED TO GALVANIZATION DAMAGE:				Seismic Loads: -SS = 0.185g, S1 = 0.047g -Site Class = D -SDS = 0.200g, SD1 = 0.080g -Seismic Design Category = B -Ordinary Steel Cantilever Column System
1. USE PAINTS CONTAINING ZINC DUST (IN ACCORDANCE WITH "ASTM A 780-01" SECTION A2)				
2. USE ZINC SPRAY (IN ACCORDANCE WITH "ASTM A 780-01" SECTION A3) ONE OF THE ABOVE GUIDELINES MUST BE FOLLOWED TO MAINTAIN THE DCE WARRANTY REQUIREMENTS.				5. Material strengths: -Hot-rolled structural steel ASTM A992 GR50. -Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted. -Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS -I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85 -Plate - A36 Steel, Hot Dip Galvanized -Connectors - Stainless Steel unless otherwise noted.
6. Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.				
7. For the purposes of this project, all arrays are classified as Exterior Arrays.				8. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.
8. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.				



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	Weight:	9325.856 lbmass		
	Description:	<b>CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY LLC</b>		
	Project:	MANCHESTER TOWNSHIP LANDFILL		
	Drawn:	CPATTERSON	Date:	7/23/2025
	Scale:		Sheet:	3 of 5
	Format:	D	Part Number:	6523
			Rev:	2

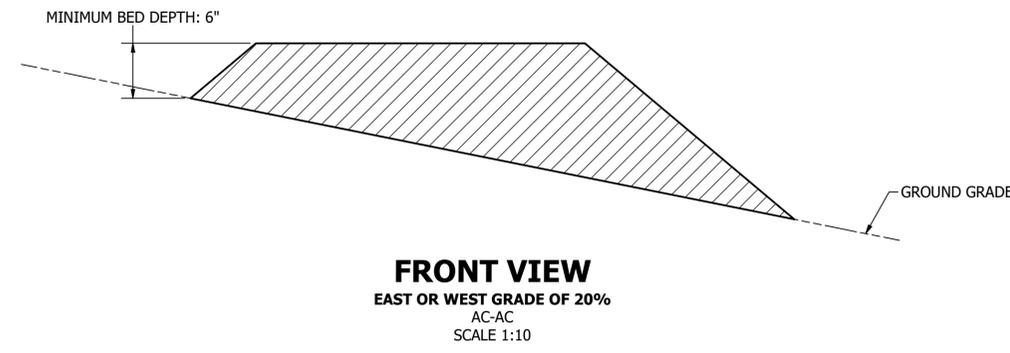
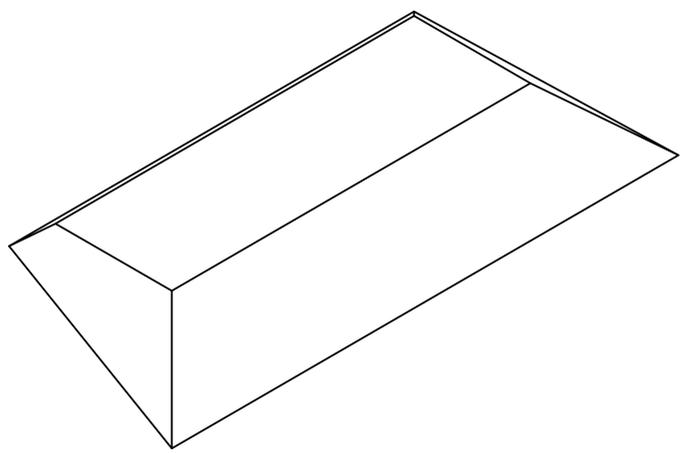
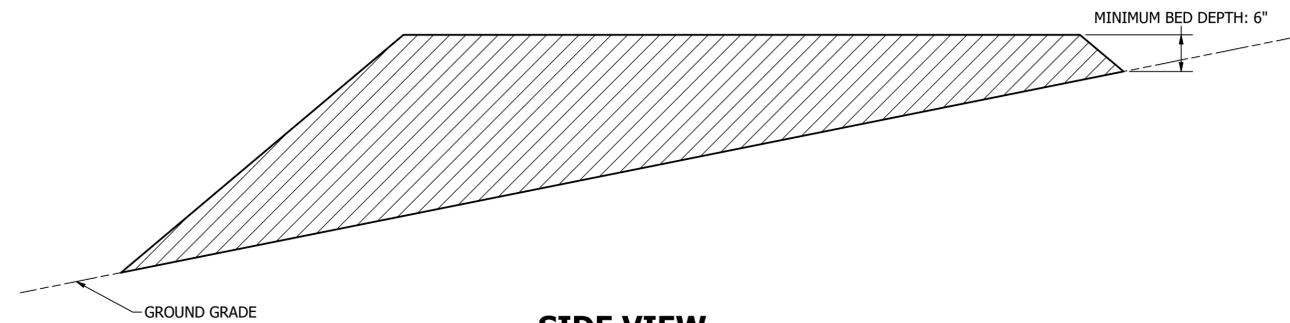
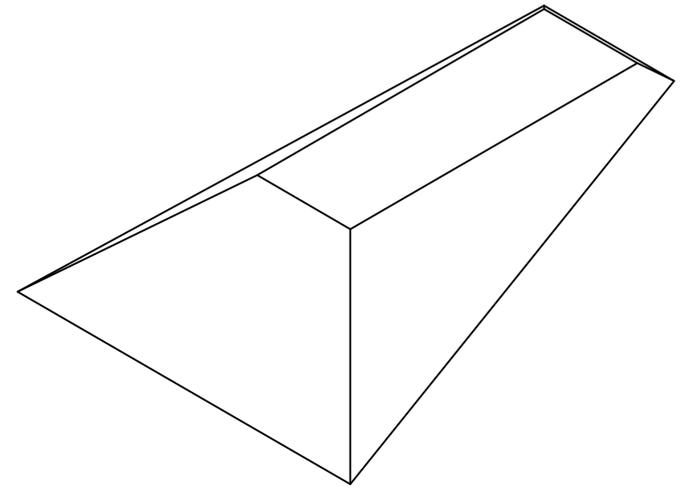
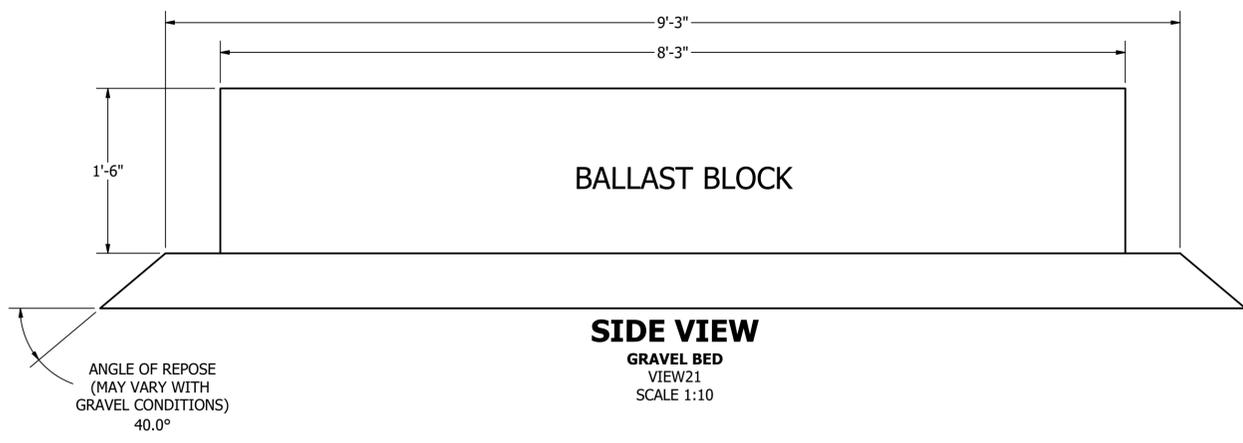
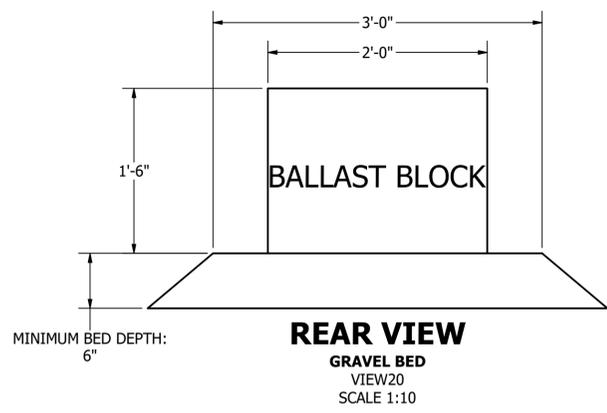
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19410 Jetton Rd, Ste 220  
 Cornelius, NC, 28031  
 www.dcesolar.com  
 Phone: 1-704-659-7474

8 7 6 5 4 3 2 1



- PROJECT INFORMATION**
- INSTALLATION ADDRESS:  
1501 NJ 70, Whiting, NJ 08759
- Structural General Notes**
- The contractor will be solely responsible for all construction means, methods, techniques, sequences and procedures and shall at all times take reasonable precautions for the safety of its employees on the project, and shall comply with all applicable provisions of federal, state, and municipal safety laws and building construction codes.
  - If existing conditions make it necessary to revise structural details, consult DCE Solar before proceeding with any change.
  - These drawings and notes are for this specific project and no other use is authorized.
  - Structure designed in accordance with the 2021 International Building Code, ASCE 7-16, AISC 360-16 (14th Edition), and AISI S100-16: ASD
- Snow Loads:**
- Ground Snow Load  $pg = 20$  psf
  - Importance Factor  $Is = 0.8$
  - Exposure Factor  $Ce = 0.9$
  - Slope Snow Load  $ps = 9.90$  psf
- Wind Loads:**
- MRI Factor = 1.00
  - Basic Wind Speed  $V = 109$  mph
  - $Iw = 1$
  - Exposure = C
  - Wind Design performed in accordance with the requirements of ASCE - Wind Tunnel Procedure. Refer to Wind Tunnel Report by UWOL BLWT Laboratory dated 12/11/14.
- Seismic Loads:**
- $SS = 0.185g$ ,  $S1 = 0.047g$
  - Site Class = D
  - $SDS = 0.200g$ ,  $SD1 = 0.080g$
  - Seismic Design Category = B
  - Ordinary Steel Cantilever Column System
- 5. Material strengths:**
- Hot-rolled structural steel ASTM A992 GR50.
  - Cold Formed Steel Sections comply w/ASTM A1003, structural grade, galvanized to Grade as noted.
  - Formed Steel Brackets - ASTM A653 Galvanized Grade 50 SS
  - I-Beams - A992, 50 ksi, Hot Dip Galvanized to ASTM 123 Grade 85
  - Plate - A36 Steel, Hot Dip Galvanized
  - Connectors - Stainless Steel unless otherwise noted.
- 6. Members and connections have been designed for worst-case loading associated with exterior zones of the array per the wind tunnel report.**
- 7. For the purposes of this project, all arrays are classified as Exterior Arrays.**
- 8. Scope of work by Structural Engineer includes member design, connection design, and determination of design base reactions only. Layout of PV arrays such that they do not conflict with existing site obstructions, determination of site-specific foundation and geotechnical parameters, and all other work not specifically noted is by others.**

Engineer of Record

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<p>DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED TOLERANCES ARE AS FOLLOWS: .X = ± 0.100" (2.54mm) .XX = ± 0.030" (0.76mm) .XXX = ± 0.010" (0.25mm) ANGLE = ± 5° MIN. BREAK = 0.012" (0.3mm) SURFACE FINISH = 63 (US)</p>	Material:	Weight: 4828.330 lbmass
	<b>CT-LS-DC-B, ZNSHINE ZXM7-SHDB144, 2x10, 25 DEG, MANCHESTER TOWNSHIP LANDFILL, NEXTGRID ENERGY</b>	
Description: <b>LLC</b>	Project: MANCHESTER TOWNSHIP LANDFILL	Date: 7/23/2025
Drawn: CPATTERSON	Scale:	Sheet: 4 of 5
Format: D	Part Number: <b>GRAVEL BED WITH BLOCK</b>	Rev: 2

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8 7 6 5 4 3 2 1

# Contour™

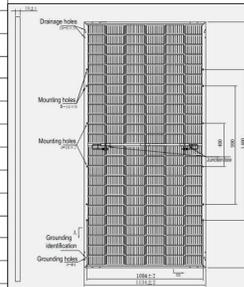
PROJECT INFORMATION	
PROJECT NAME	MANCHESTER TOWNSHIP LANDFILL
INSTALLATION ADDRESS	1501 NJ 70, WHITING, NJ 08759
CLIENT	NEXGRID ENERGY LLC

SITE SPECIFICATION		PANEL SPECSHEET
WIND SPEED (MPH)	109	ASCE 7-16
SNOW LOAD (PSF)	20	ASCE 7-16
EXPOSURE CATEGORY	C	ASCE 7-16
RISK CATEGORY	J	ASCE 7-16

PANEL SPECIFICATION	
MODEL	ZNSHINE ZXM7-SHDB144
LENGTH (mm)	2278
WIDTH (mm)	1134
WEIGHT (lb)	61.7
PANEL WATTAGE (W)	550
PROJECT PANEL COUNT	9,308

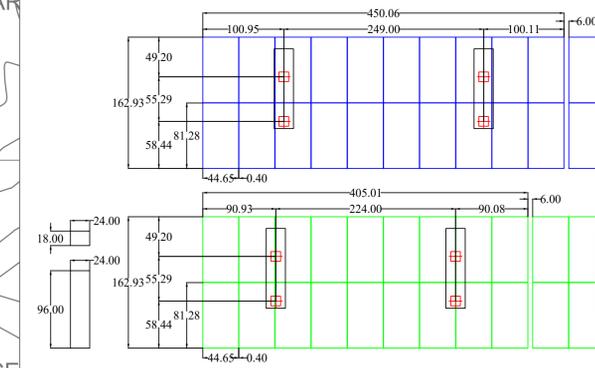
SYSTEM INFORMATION	
ARRAY CONFIGURATION	2X10, 2X9
SYSTEM SIZE (W)	5,119,400
ARRAY TILT (°)	25
GROUND CLEARANCE (in)	36



ARRAY DETAILS	
ITEM	QUANTITY
2X10 TABLES	379
2X9 TABLES	96
BALLAST BLOCKS	950
ALTERNATE ARRAY CONNECTIONS	127

### CAD BLOCK

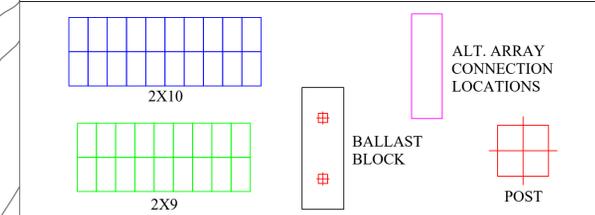
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2. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND SHALL AT ALL TIMES TAKE REASONABLE PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES ON THE PROJECT, AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CONSTRUCTION CODES.
3. CUSTOMER PROVIDED SITE LAYOUTS WERE USED TO GENERATE THE LAYOUT AS SHOWN.
4. ANY CHANGES TO THE LAYOUT SHOWN THAT MAY CAUSE ERRORS DURING INSTALLATION ARE NOT THE RESPONSIBILITY OF DCE SOLAR.

### LEGEND DETAILS



### REVISION NOTES

REV	DESCRIPTION	PREPARED BY	DATE
0	GROUND MOUNT LAYOUT	CPATTERSON	5/13/2025
1	REVISED CAD LAYERS	CPATTERSON	6/2/2025
2	REVISED LAYOUT, REMOVED 2X7 TABLES	CPATTERSON	7/23/2025
3			
4			

