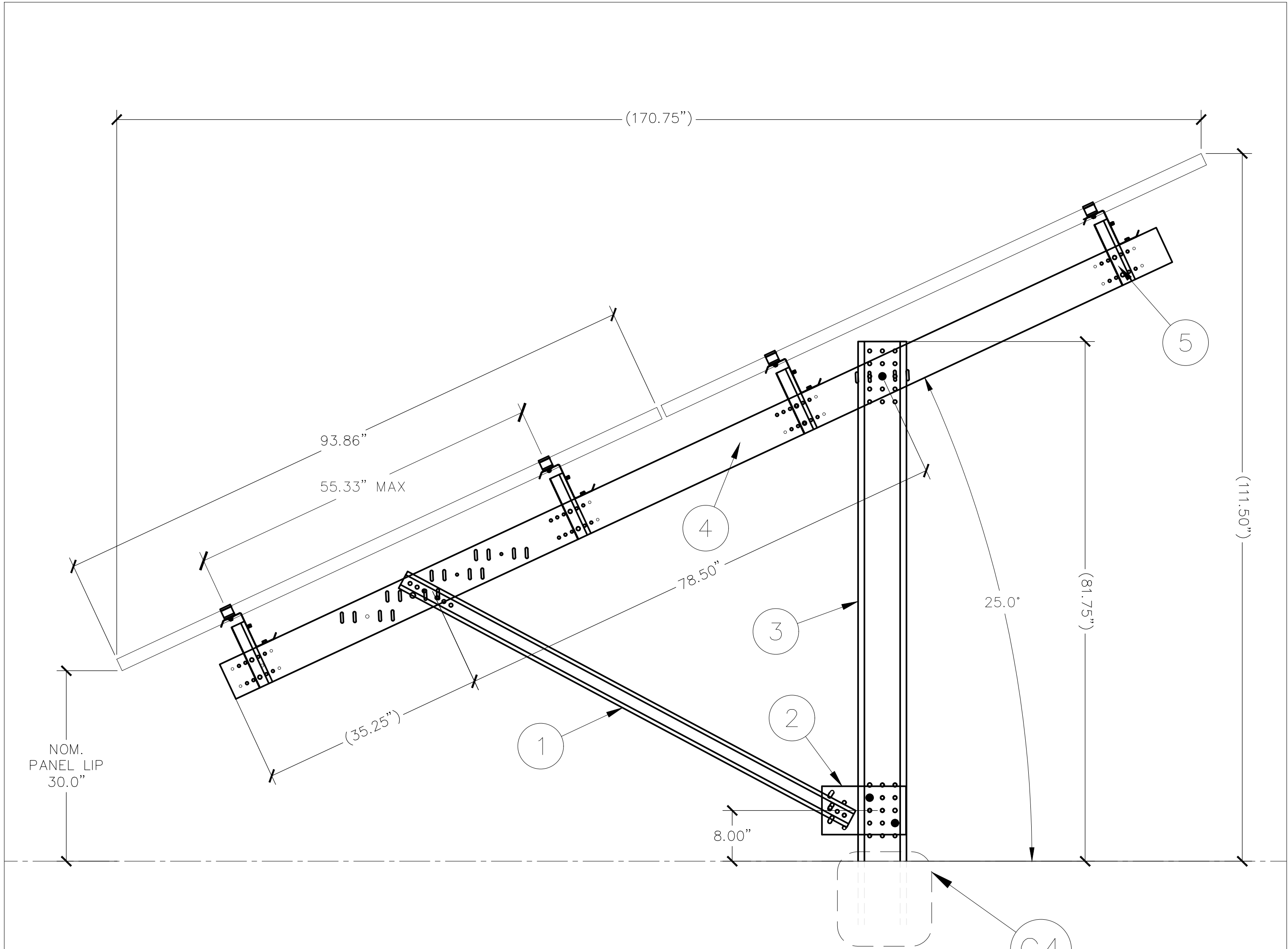


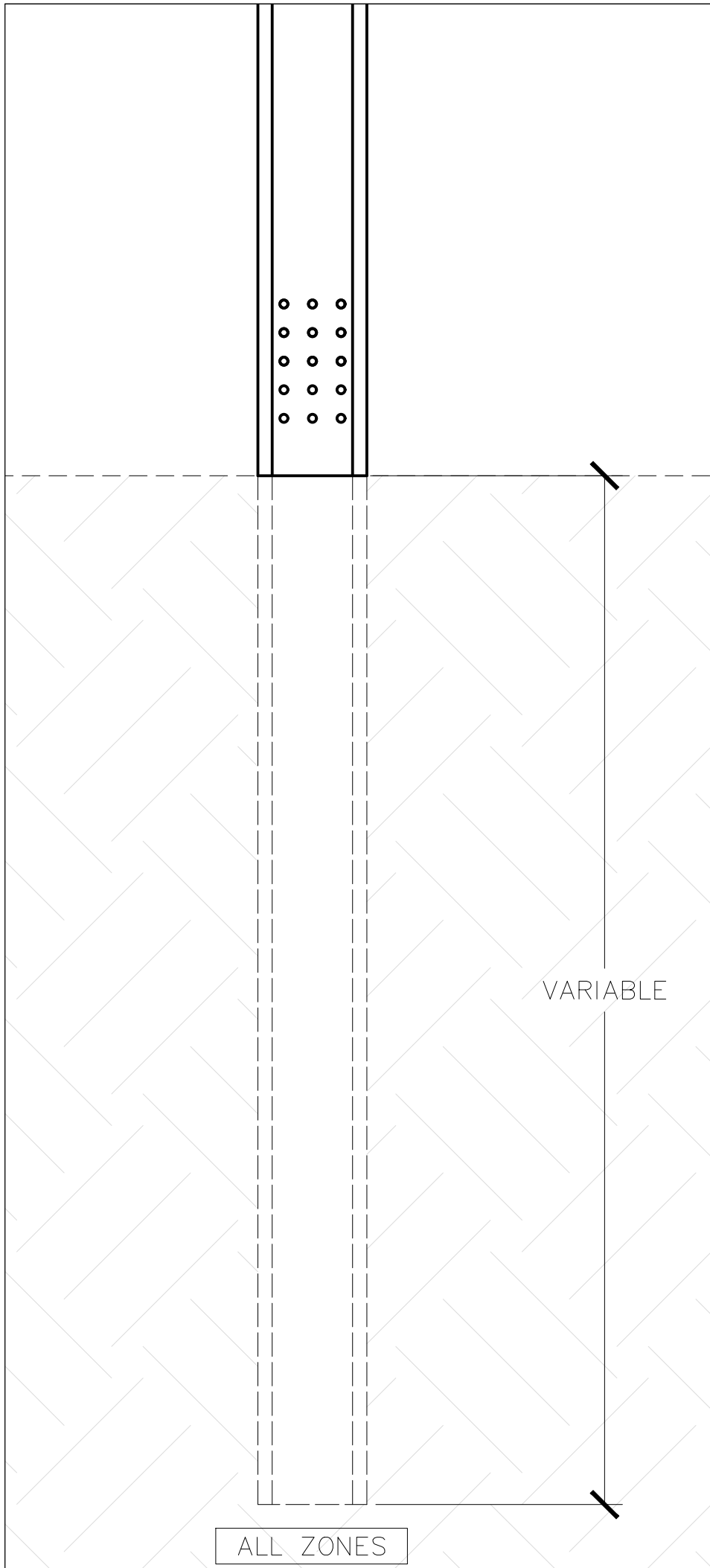
SCALE IS REDUCED WHEN SHEET SIZE IS 11" x 17"

17/9/2023 3:28:37 PM SHAWONS 22-05-08 T:\Information Systems\Structural\2023\22-05-08\_22-05-08\_22-05-08.dwg



NOTES: PV MODULE & MODULE RELATED DIMENSIONS THIS DETAIL ARE MAX ALLOWABLE. DIMENSIONS TO GROUND ARE NOMINAL FROM LEVEL GROUND. SEE NOTES FOR STD. TOLERANCES.

C1 PROFILE VIEW: RACK OVERVIEW



NOTE: EMBEDMENT DEPTH PER GEOTECHNICAL ENGINEER APPROVED ANCHOR TEST REPORT, NOT BY JDI GROUP.

C4 PROFILE VIEW: PILE EMBEDMENT

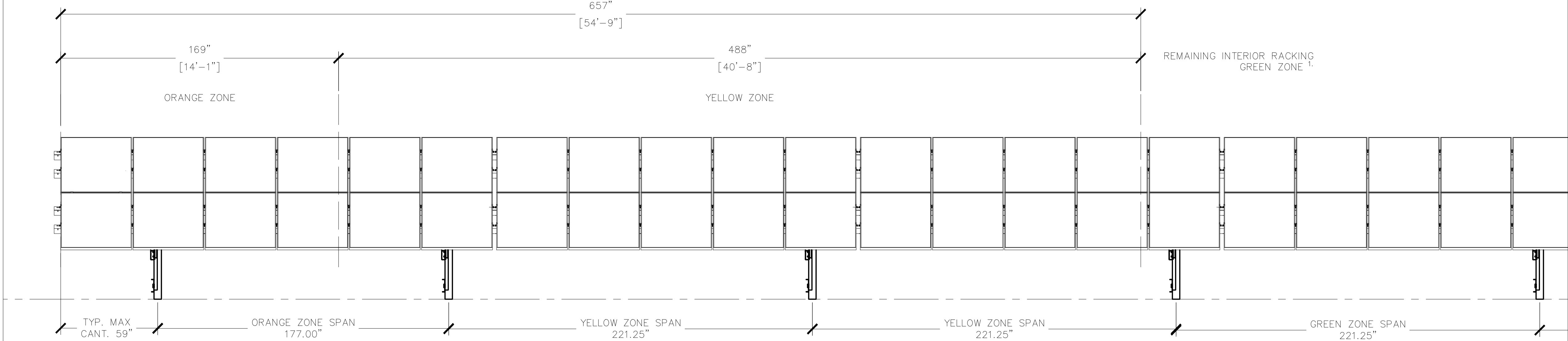
PARTS LIST (BALLOONS THIS SHEET)			
ITEM	DESCRIPTION	SHAPE	DETAIL / SHEET
1	KNEE BRACE	CEE	B2 / S.200
2	GUSSET	CEE	A4 / S.200
3	CEE PILE	CEE	C1 / S.200
4	NS CHORD	CEE	A1 / S.200
5	ROLL BAR	MIXED	A5 / S.200
6	TRANSVERSE BRACE	ZEE	C2 / S.500
7	ZEE PURLIN	ZEE	B5 / S.200

SPECIAL INSPECTION & TESTING SCHEDULE (WHEN REQUIRED, SEE ABOVE)		
	CONTINUOUS	PERIODIC
STRUCTURAL STEEL FABRICATION		
MATERIAL IDENTIFICATION		X
HIGH STRENGTH BOLTS - MATERIAL IDENTIFICATION OF BOLTS, NUTS, & WASHERS		X
WELD FILLER MATERIALS - IDENTIFICATION AND CONFIRMATION OF COMPLIANCE WITH DESIGN DOCUMENTS		X
STRUCTURAL STEEL ERECTION		
MATERIAL IDENTIFICATION		X
INSTALLATION OF HIGH STRENGTH BOLTS		X
WELDED CONNECTIONS		X
MEMBER SIZES AND PLACEMENT		X
GENERAL CONFORMANCE WITH DESIGN DOCUMENTS		X
DRIVEN DEEP FOUNDATION ELEMENTS		
VERIFY ELEMENT MATERIALS, SIZE, LENGTHS COMPLY WITH DESIGN DOCUMENTS	X	
DETERMINE CAPACITIES OF TEST ELEMENTS & CONDUCT ADDITIONAL LOAD TESTS, AS REQ.	X	
OBSERVE DRIVING OPERATIONS, MAINTAIN RECORDS	X	
VERIFY PLACEMENT LOCATIONS & PLUMBNESS	X	
HELICAL PILE FOUNDATIONS		
RECORD INSTALLATION EQUIPMENT USED, PILE DIMENSIONS, TIP ELEVATIONS, FINAL DEPTH.	X	
THIS TABLE PER IBC 2015, SEC. 1705		

- NOTES:
- HEIGHTS AND TILT ANGLES MEASURED FROM LEVEL GROUND
  - FOUNDATION TESTING, WHERE REQUIRED, SHALL BE DONE ACCORDING TO THE "QUICK TEST METHOD" PER ASTM D1143 & D3689.
  - DIMENSIONS SHOWN REFLECT HEIGHTS ON LEVEL/EVEN GROUND. ON UNLEVEL/UNEVEN TERRAIN, ALL OTHER HEIGHTS WILL BE DICTATED BY FRONT LIP HEIGHT AND PANEL TILT.
  - TOLERANCES  
TOLERANCES VALID ON DIMENSIONS ON LEVEL/EVEN GROUND. ADDITIONAL TOLERANCES MAY BE ACCEPTABLE WHEN REQUIRED ON UNLEVEL/UNEVEN GROUND.
    - LIP HEIGHT (PV CLEARANCE):  $\pm 4"$
    - TILT:  $\pm 2^\circ$
    - PILE:
      - PLUMB:  $\pm 2'$
      - EAST/WEST LOCATION:  $\pm 5"$
      - NORTH/SOUTH LOCATION:  $\pm 2"$
      - UP/DOWN LOCATION:  $\pm 6"$
    - GUSSET:
      - LOCATION ON PILE:  $\pm 4"$
      - NS LOCATION: SOUTH  $+2"$
    - KNEE BRACE:
      - NS CHORD LOCATION:  $\pm 5"$
      - HEIGHT ON GUSSET:  $\pm 2"$
  - PILE INSTALLATION—PER GEOTECHNICAL ENGINEER (DELEGATED DESIGN).
    - ACCURATELY LOCATE AND INSTALL ANCHOR POSTS BY SUCH METHODS AND EQUIPMENT SO AS NOT TO IMPAIR THE ANCHOR STRENGTH OR DAMAGE ANCHORS OR ADJACENT CONSTRUCTION.
    - IN SUCH CASES WHERE PILE EAST/WEST LOCATION MUST BE ADJUSTED FROM NOMINAL POSITION & SHIFTED WITHIN TOLERANCES, THIS IS ALLOWED TO OCCUR IN NO GREATER THAN ONE CONSECUTIVE PILE LOCATION.
    - INSTALLATION CONTRACTOR RESPONSIBLE FOR ALL CONSTRUCTION EQUIPMENT, METHODS, AND SEQUENCES.
    - DISTURBED GALVANIZED SURFACES SHALL BE TOUCHED UP WITH AN APPROVED COLD GALVANIZING COMPOUND.
    - PILE SHALL PENETRATE THE SOIL TO THE DEPTH INDICATED AS MINIMUM PER THE STAMPED FOUNDATION DESIGN REPORT.
  - SPECIAL INSPECTIONS (WHERE REQUIRED):

SPECIAL INSPECTIONS ARE NOT REQUIRED BY AP ALTERNATIVES OR THE STRUCTURAL ENGINEER OF RECORD, WHERE REQUIRED BY OWNER, CUSTOMER, AND/OR AUTHORITY HAVING JURISDICTION, MINIMUM INSPECTION SHALL FOLLOW IBC OR LOCAL AHJ SPECIAL INSPECTIONS GUIDELINES, PER NOTES AND TABLE THIS SHEET.

    - 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.
    - FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN OWNER/CUSTOMER HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE OWNER'S/CUSTOMERS EXPENSE.
    - SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. RECORDS SHALL BE FURNISHED TO THE OWNER, ENGINEER OF RECORD, AND LOCAL JURISDICTION AS REQUIRED.



NOTES: MAX CANTILEVER MEASURED FROM EDGE OF PANEL TO POST CENTER. MAX SPAN MEASURED FROM PILE CENTER TO PILE CENTER. POST QUANTITY AS REQUIRED TO SATISFY CANTILEVERS, SPANS, ROW LENGTH, & PANEL QUANTITY.  
1. WHERE ALLOWABLE PER THE CALCULATIONS PACKAGE. PROHIBITED AREAS SHALL REMAIN ZONED YELLOW.

A1 ELEVATION VIEW FROM FRONT (NORTH-FACING)

IMAGE REFERENCE ONLY. NOT INDICATIVE OF REQUIRED QUANTITIES.

CUSTOMER

RACKING PROVIDER

**APA**  
SOLAR RACKING

20-345 COUNTY ROAD X  
RIDGEVILLE CORNERS, OHIO 43555  
(P) 419.267.5280  
(F) 419.267.5214  
WWW.APALTERNATIVES.COM

RACKING TYPE

**TITAN**

STRUCTURAL ENGINEER OF RECORD

PROFESSIONAL SEAL/STAMP

STRUCTURAL PRINT PACKAGE

DOCUMENT NAME

20-345 COUNTY ROAD X  
RIDGEVILLE CORNERS, OH 43555

20-345 COUNTY ROAD X  
RIDGEVILLE CORNERS, OH 43555

SHEET REVISIONS

REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	4/18/2023

APPROVED

DRAWN: SDS, TM, JDI, D

SHEET NAME: RACKING OVERVIEW

PROJECT NUMBER: SAMPLE

DRAWING NUMBER: S.100

REV. A