

PROJECT TITLE:

PHOTOVOLTAIC PROJECT AT:
SUFFIELD HIGH SCHOOL

1060 SHELDON STREET
WEST SUFFIELD, CONNECTICUT 06093

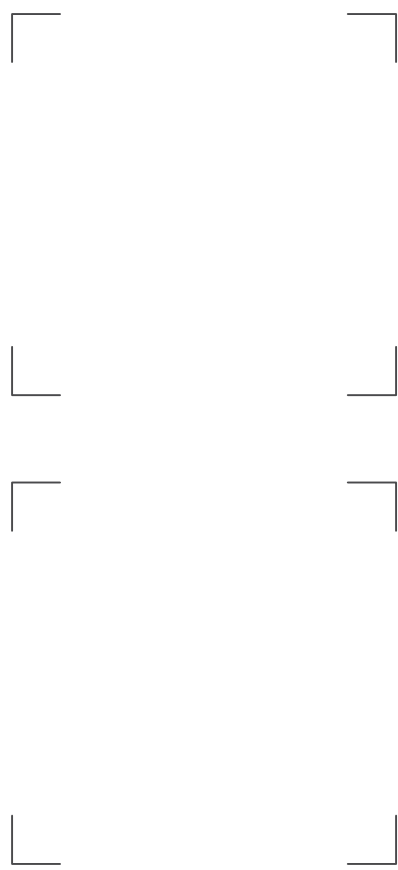
PROJECT LOCATION:



DRAWING LIST

- COVER SHEET
- E1 PV ROOF PLAN
- E2 ENLARGED PV ROOF PLAN
- E3 PV ONE-LINE DIAGRAM
- E4 PV DETAILS
- E5 PV DETAILS

ARCHITECT
SILVER PETRUCELLI + ASSOCIATES
3190 WHITNEY AVENUE, HAMDEN CT 06518
311 STATE STREET NEW LONDON, CT 06320
PHONE 203 230 9007 silverpetrucelli.com



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311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

BUILDING INSPECTOR
OFFICIALS:

FIRE MARSHAL

SANITARIAN/ HEALTH INSPECTOR

ADA/504 COORDINATOR

CONSTRUCTION DOCUMENTS SUBMISSION: 06/04/2026
ISSUED FOR BID: 06/29/2026

STATE PROJECT NUMBER: 139-0063 PV

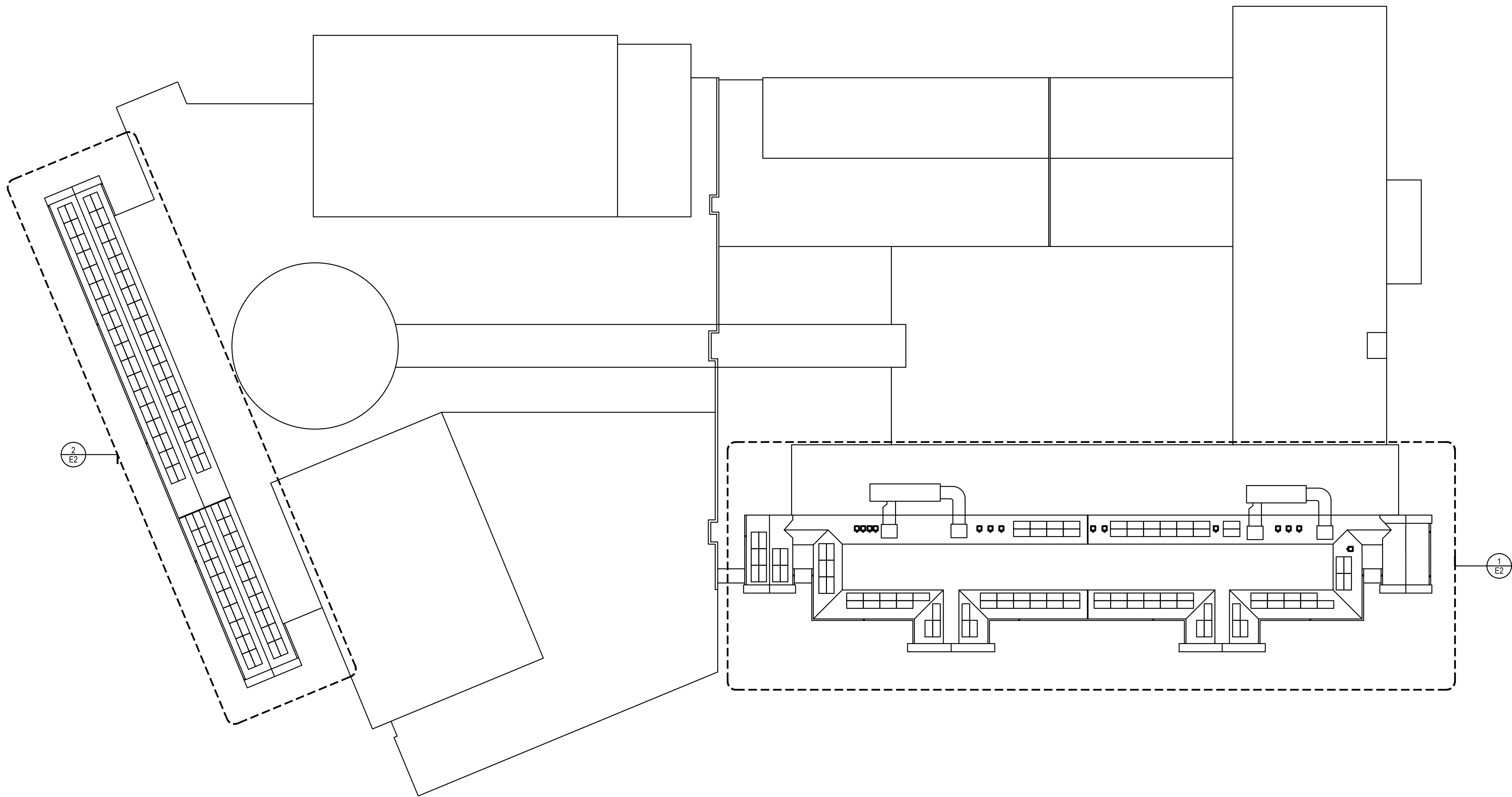
PV MODULE RATINGS @ STC OPEN-CIRCUIT VOLTAGE (Voc): 57.79 OPERATING VOLTAGE (Vmp): 48.28 OPERATING CURRENT (Imp): 13.26 SHORT-CIRCUIT CURRENT (Isc): 13.99 MAXIMUM POWER (W): 640 Voc TEMP COEFF (%/K) = -0.24
INVERTER 1 RATING MAX DC VOLT RATING (V): 1000 MAX POWER @ 40°C (W): 12000 NORMAL AC VOLTAGE (V): 4800 MAX AC CURRENT (A): 145 MAX OCPD RATING (A): 200
TOTAL SYSTEM DESIGN TOTAL QUANTITY OF PANELS: 216 TOTAL SYSTEM KW (DC): 138.240 TOTAL SYSTEM KW (AC): 125.00 SYSTEM RATIO (DC/AC): 1.11

PV SYSTEM GENERAL NOTES

- [illegible]

GENERAL NOTES - ELECTRICAL

1. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS ON EXISTING BASE ASUILT LOCATIONS ON FIELD VERIFICATION OF EXISTING BUILDING ELECTRICAL CHARACTERISTICS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL & ARCHITECTURAL CONDITIONS
3. ALL WORK AND ACTION DESCRIBED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR (UNLESS SPECIFICALLY NOTED OTHERWISE) AND SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR SUGGESTING POSSIBLE DIVISION OF RESPONSIBILITY. PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND EXECUTION OF ALL WORK
4. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS
5. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS NOTED OTHERWISE
6. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION
7. STUDY THE PROJECT MANUAL & DRAWINGS OF ALL DISCIPLINES
8. ELECTRICAL CONDUIT & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE
9. PENETRATIONS IN RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING
10. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS REQUIRED FOR THE USE OF THE STAIRS
11. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE RACEWAY PATTERN TO MATCH EXISTING SURFACE. ALL ELECTRICAL INSTALLATIONS ON EXISTING WALLS SHALL NOT BE IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY.
12. INVERTERS & ATRANSFORMERS SHALL BE INSTALLED TO MEET NEC RAPD

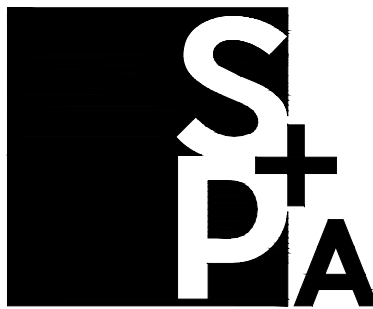


1 OVERALL PHOTOVOLTAIC PLAN

$$1/32'' = 1'-0''$$

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SILVER PETRUCELLI + ASSOCIATES

3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
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Drawing Title:

PV ROOF PLAN

Project Phase:

ISSUED FOR BID: 06/29/2026

State Project Number:

139-0063 PV

Date:

06/04/2026

Scale

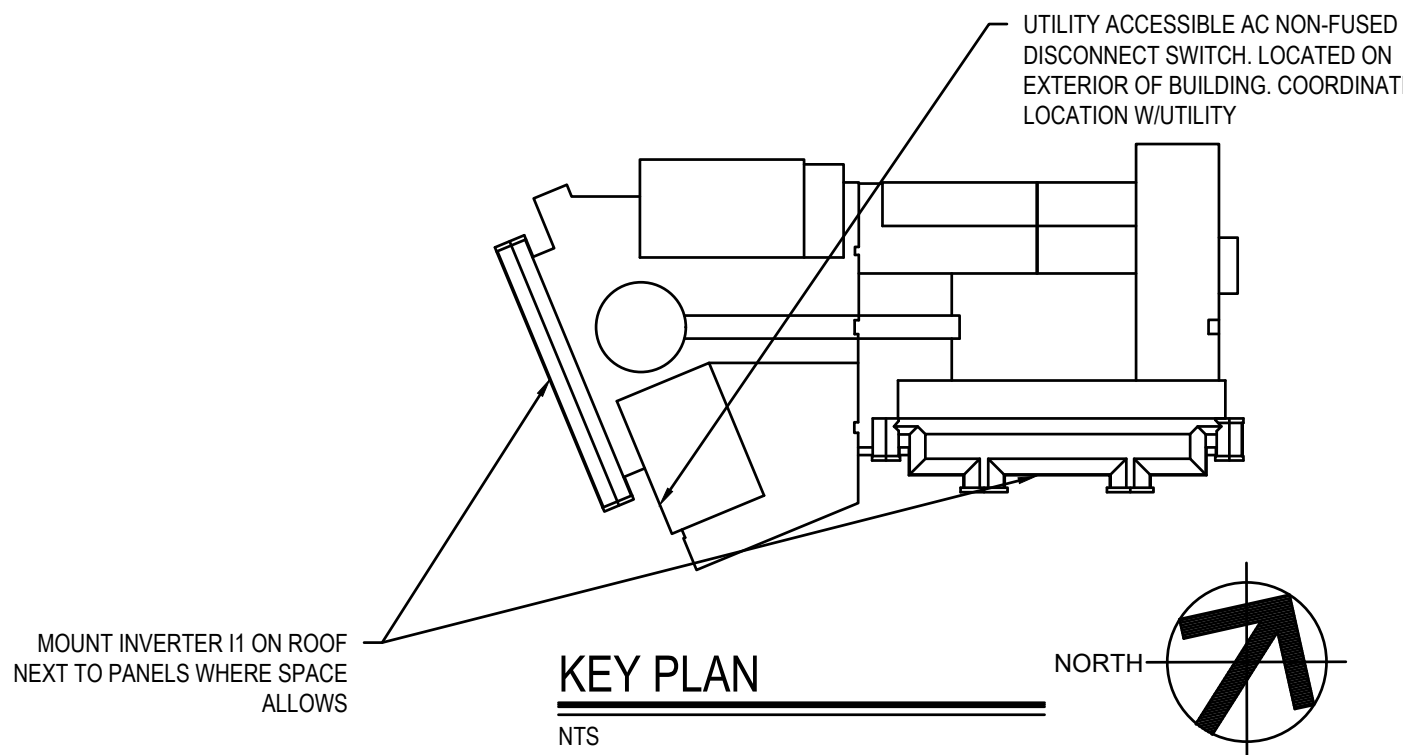
AS NOTED

Drawn

MTC

Project Number:

Drawing Number:



E1

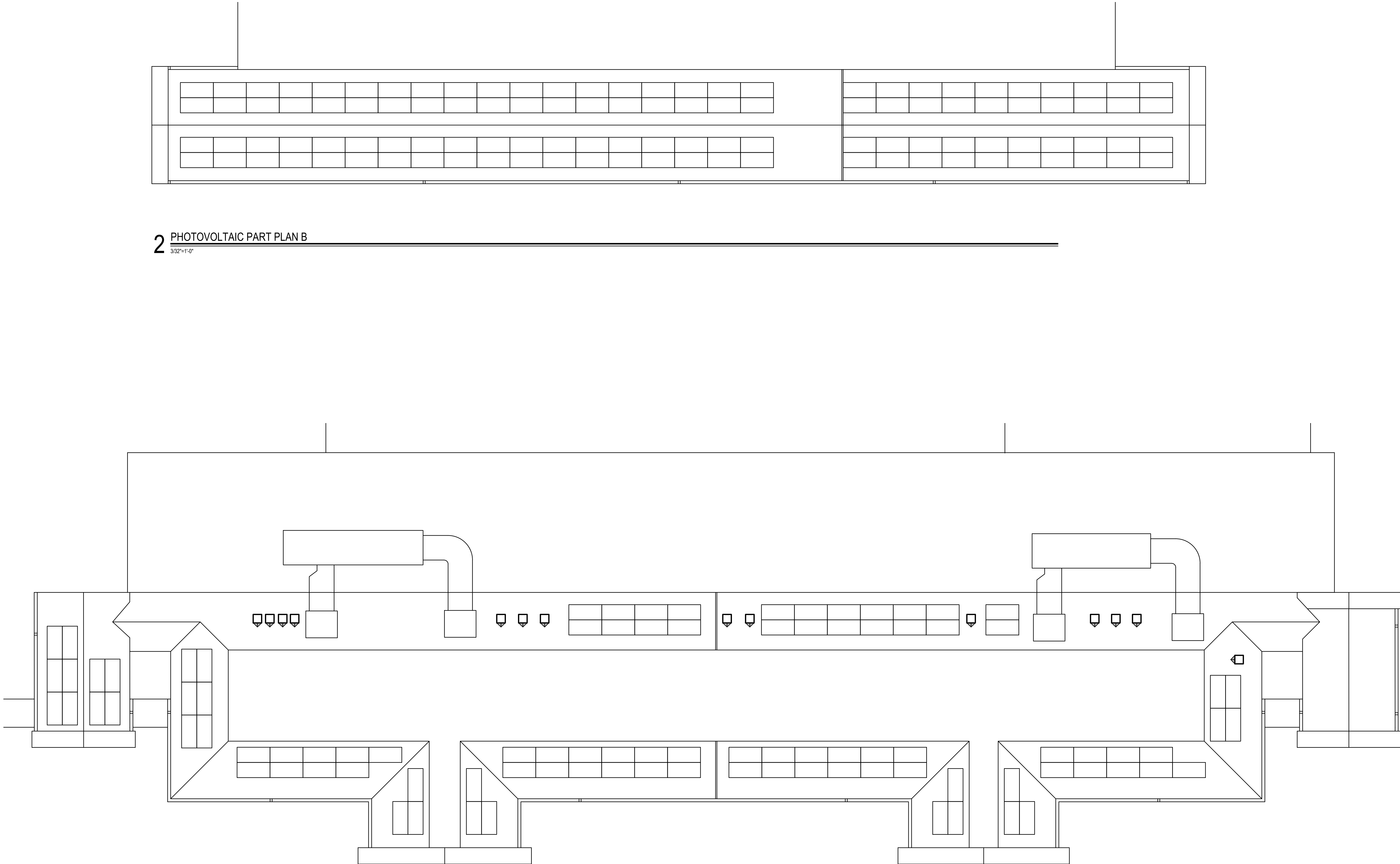
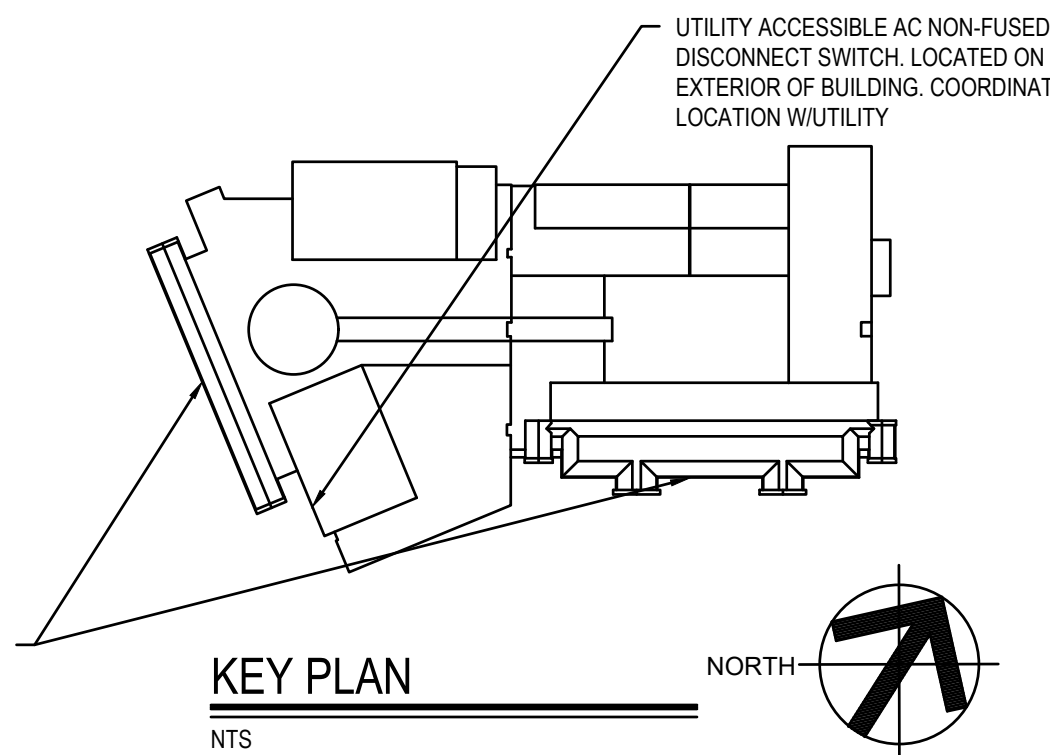
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INVERTER 1 RATING MAX DC VOLT RATING (V): 1000 MAX POWER @ 40°C (W): 120000 NORMAL AC VOLTAGE (V): 480 MAX AC CURRENT (A): 145 MAX OCPD RATING (A): 200
TOTAL SYSTEM DESIGN TOTAL QUANTITY OF PANELS: 216 TOTAL SYSTEM KW (DC): 138.240 TOTAL SYSTEM KW (AC): 125.00 SYSTEM RATIO (DC-AC): 1.11

PV SYSTEM GENERAL NOTES

- [illegible]

GENERAL NOTES - ELECTRICAL

1. SPECIFICATION SECTIONS, GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS AND DRAWINGS ARE INTEGRAL PARTS OF CONTRACT DOCUMENTS
2. ALL WORK SHALL BE SHOWN AND LOCATED ON DRAWINGS. BASE ASSESSMENT LOCATIONS ON FIELD VERIFICATION OF EXISTING BUILDING CHARACTERISTICS INCLUDING BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL & ARCHITECTURAL CONDITIONS
3. ALL WORK AND ACTION DEPICTED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS. IF ANY PERMITS ARE INTENDED TO SUGGEST POSSIBLE DIVISION OF RESPONSIBILITY, PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND EXECUTION OF ALL WORK
5. OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS
6. ALL EQUIPMENT, MATERIALS AND RELATED SYSTEM COMPONENTS SHALL BE NEW UNLESS NOTED OTHERWISE
7. REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION
8. THE PROJECT MANUAL & DRAWINGS OF ALL DISCIPLINES
9. ELECTRICAL CONDUITS & BOXES SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS WHEREVER POSSIBLE
10. ALL SERVICE UTILITIES RATED WALLS & CEILINGS SHALL BE SEALED USING U/L LISTED METHODS APPROPRIATE FOR INDICATED RATING
11. NO PENETRATIONS ARE ALLOWED INTO STAIR ENCLOSURES EXCEPT AS REQUIRED FOR VENTILATION
12. ALL INSTALLATIONS ON NEW WALLS SHALL BE FULLY RECESSED. INSTALLATIONS ON EXISTING MASONRY WALLS SHALL BE RUN WITH SURFACE RACEWAY PANELS TO MATCH EXISTING SURFACE. ALL PENETRATIONS THROUGH EXISTING STUCCO WALLS SHALL BE IN OLD-WORK STYLE BOXES AND FISH WIRING IN WALL CAVITY
13. INVERTERS & SYSTEM COMPONENTS SHALL BE INSTALLED TO MEET NEC RP40

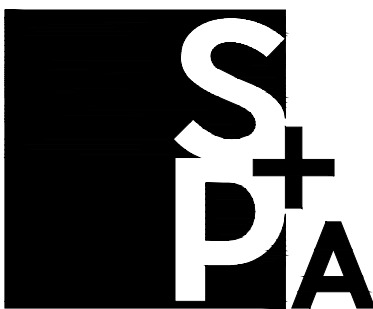


2 PHOTOVOLTAIC PART PLAN B

1 PHOTOVOLTAIC PART PLAN A

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3190 WHITNEY AVENUE HAMDEN CT 06518
311 STATE STREET NEW LONDON CT 06320
203 230 9007 silverpetrucelli.com

Revision:	Description:	Date:	Revised By:
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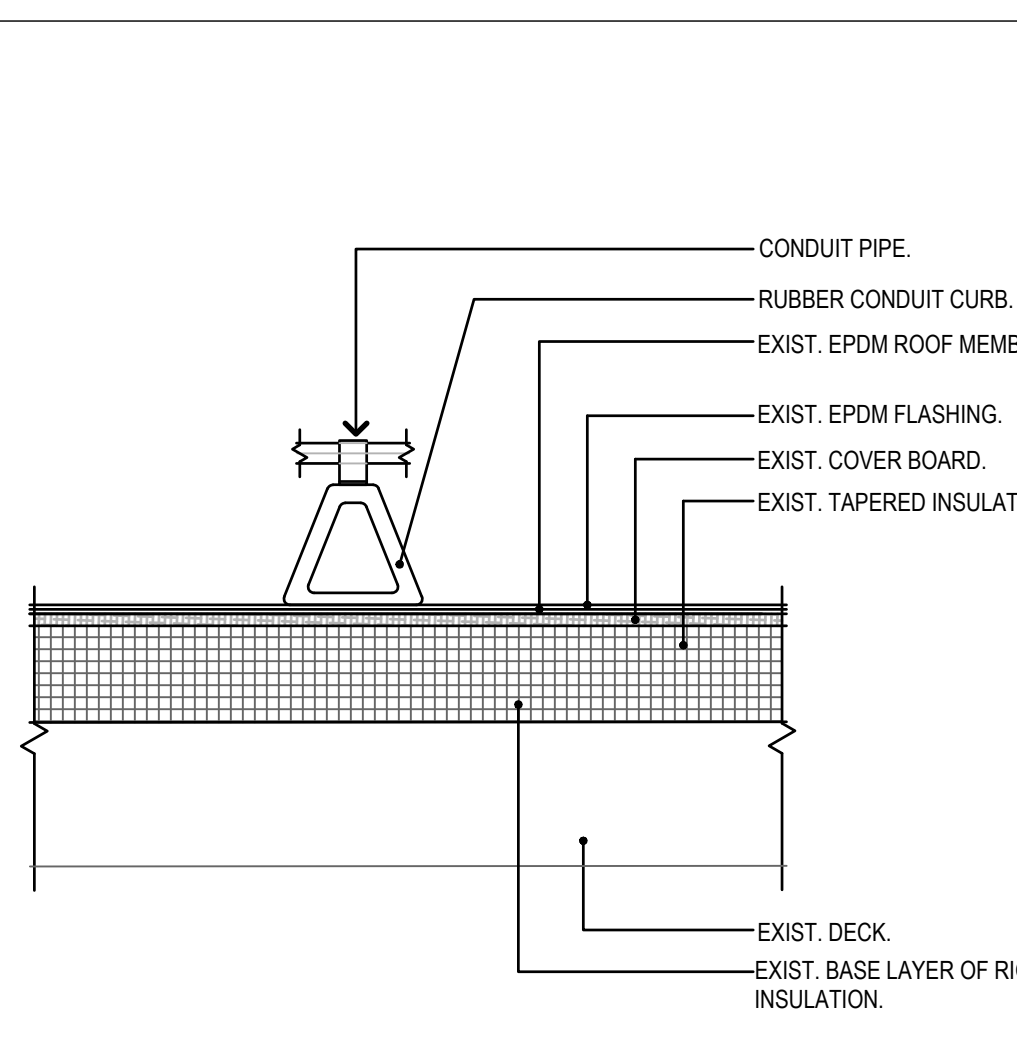
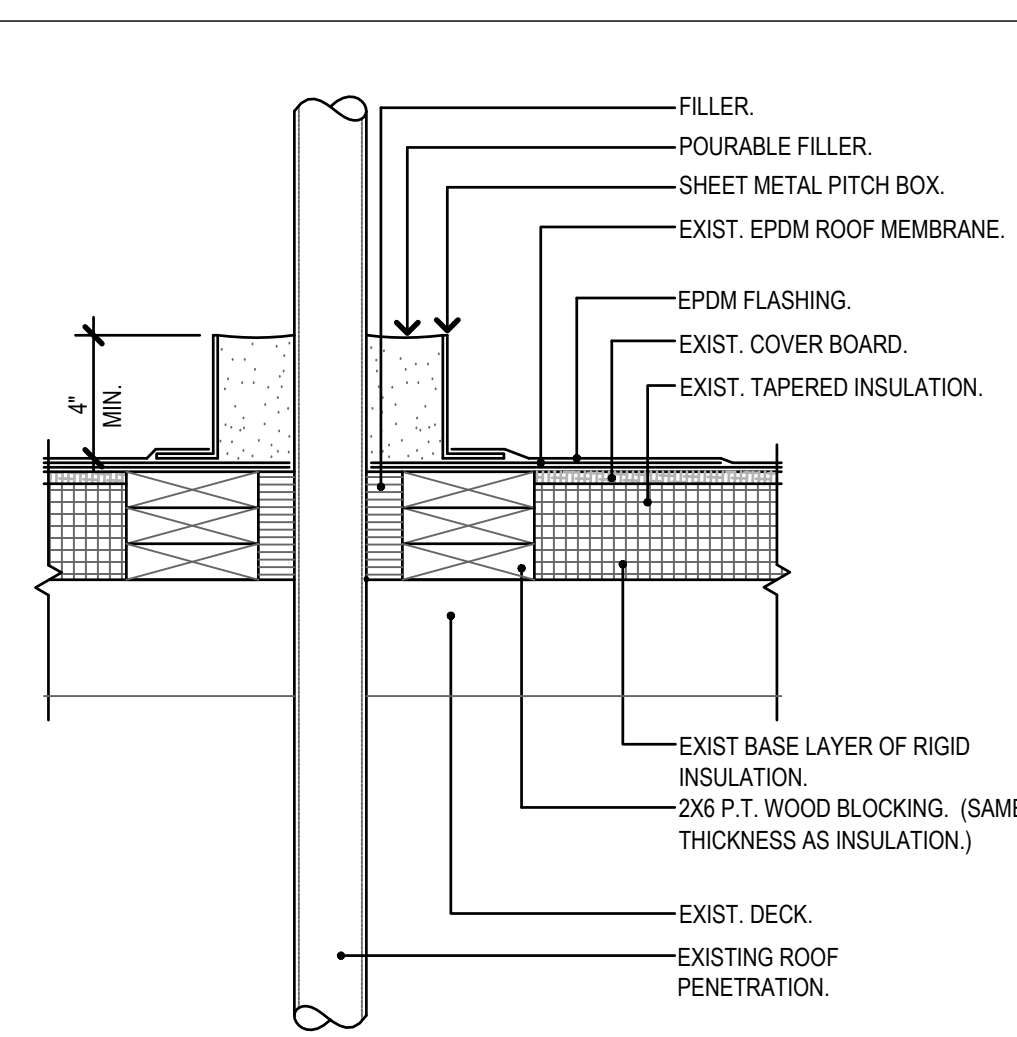
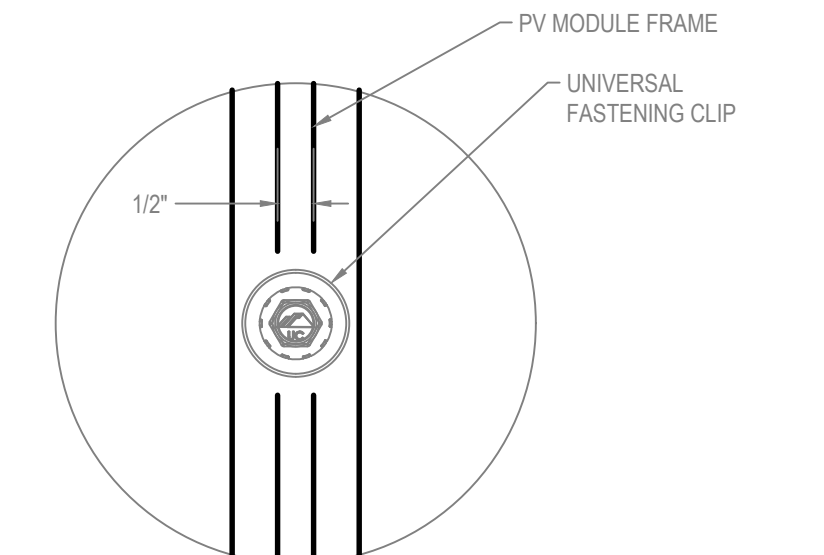
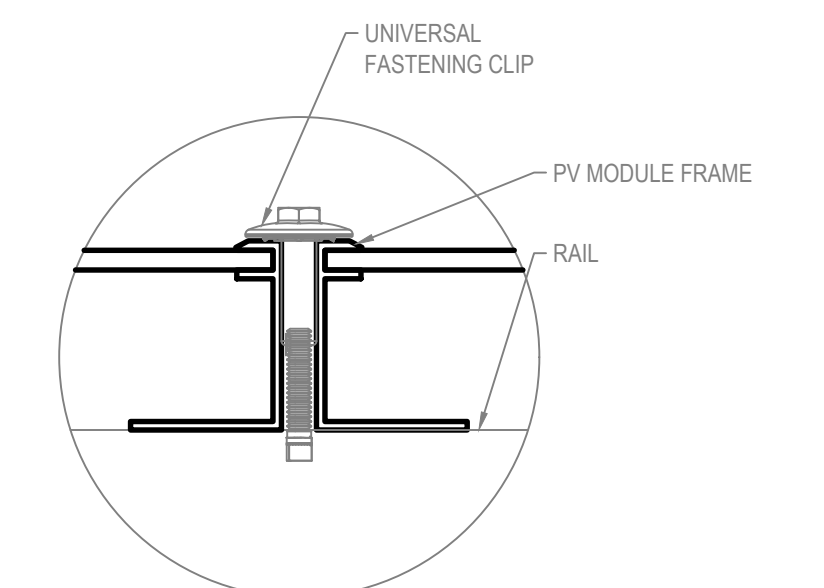
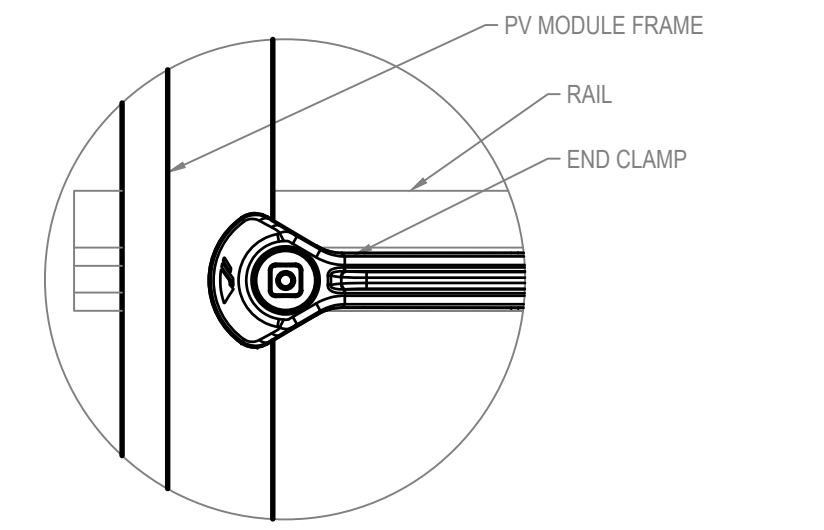
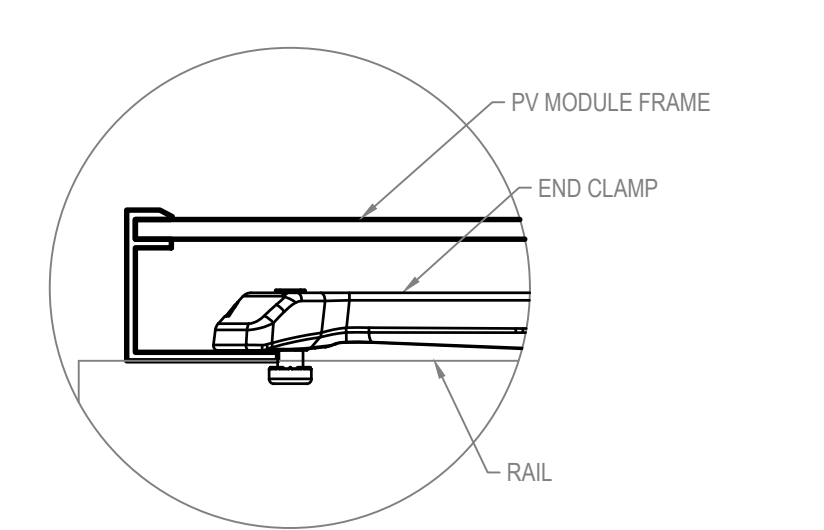
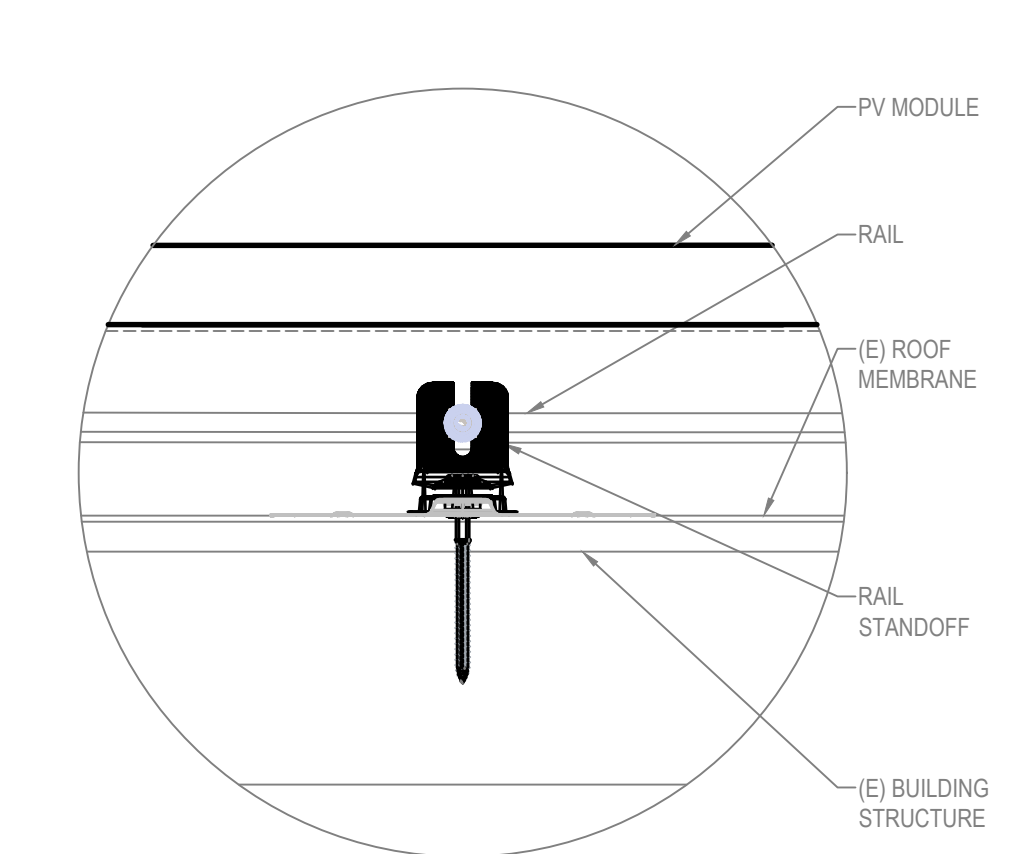
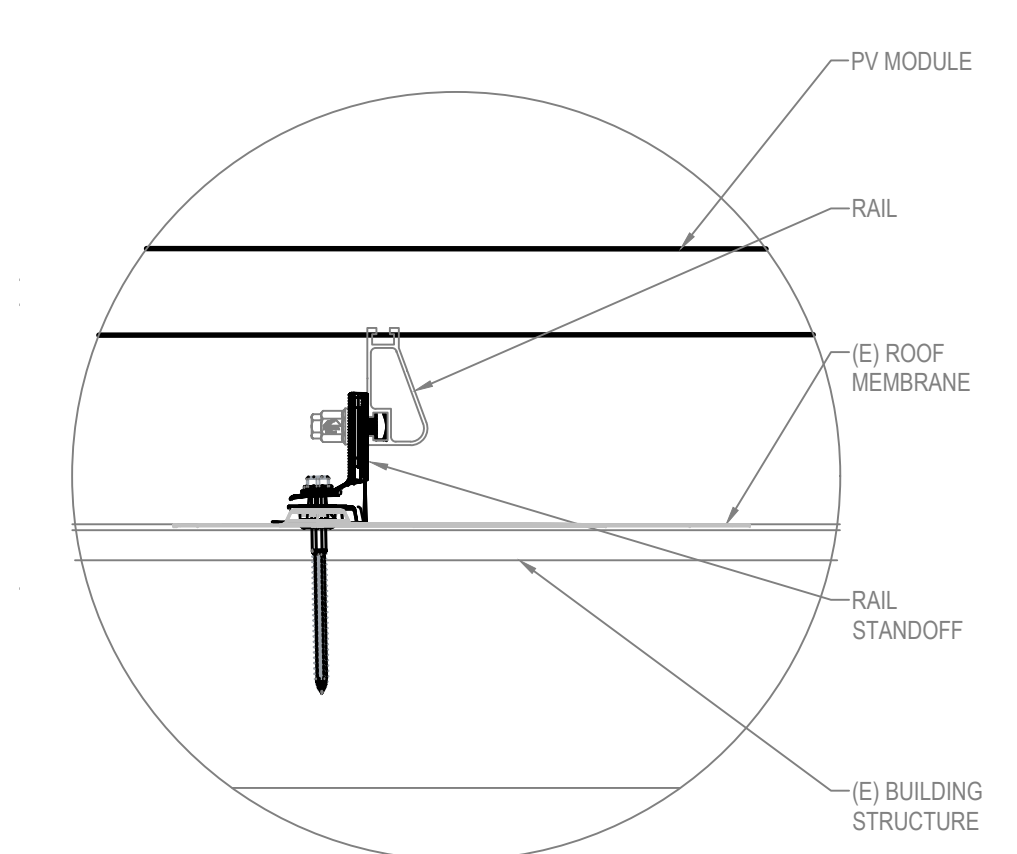
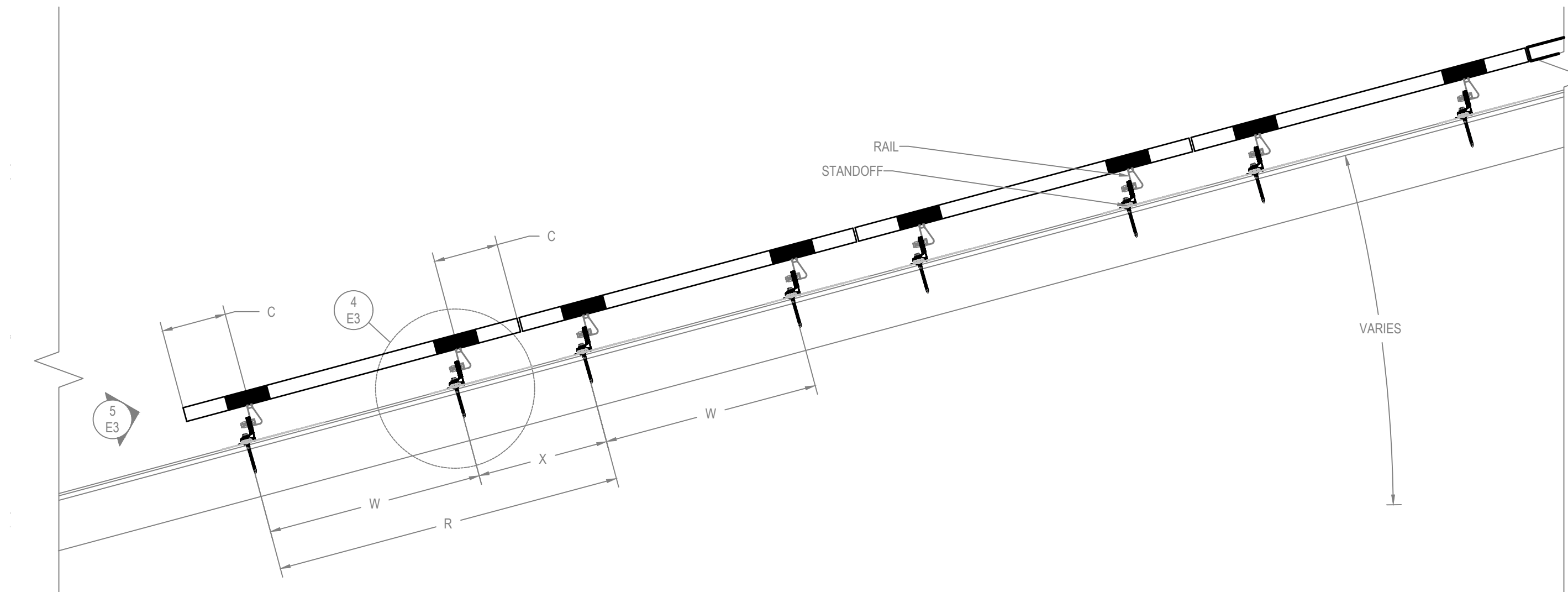
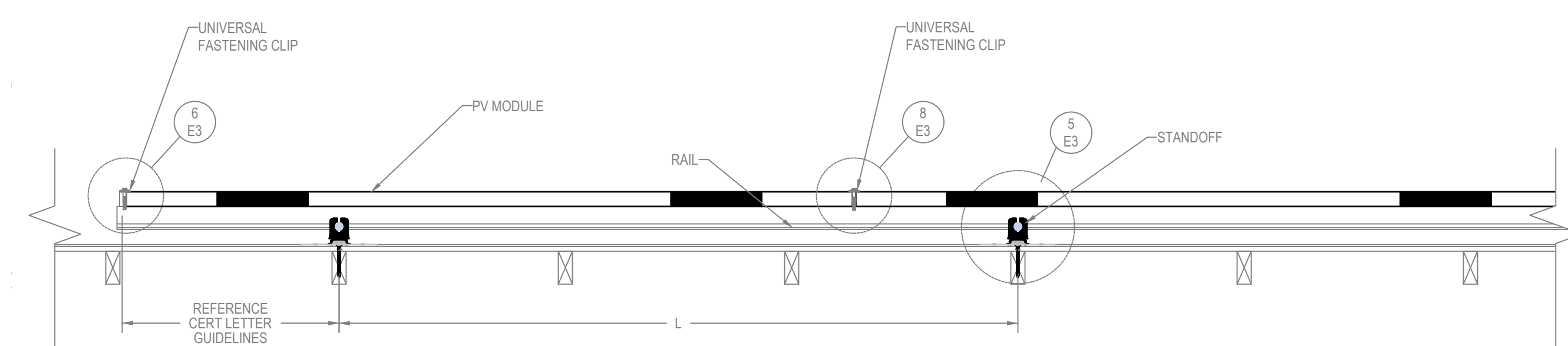
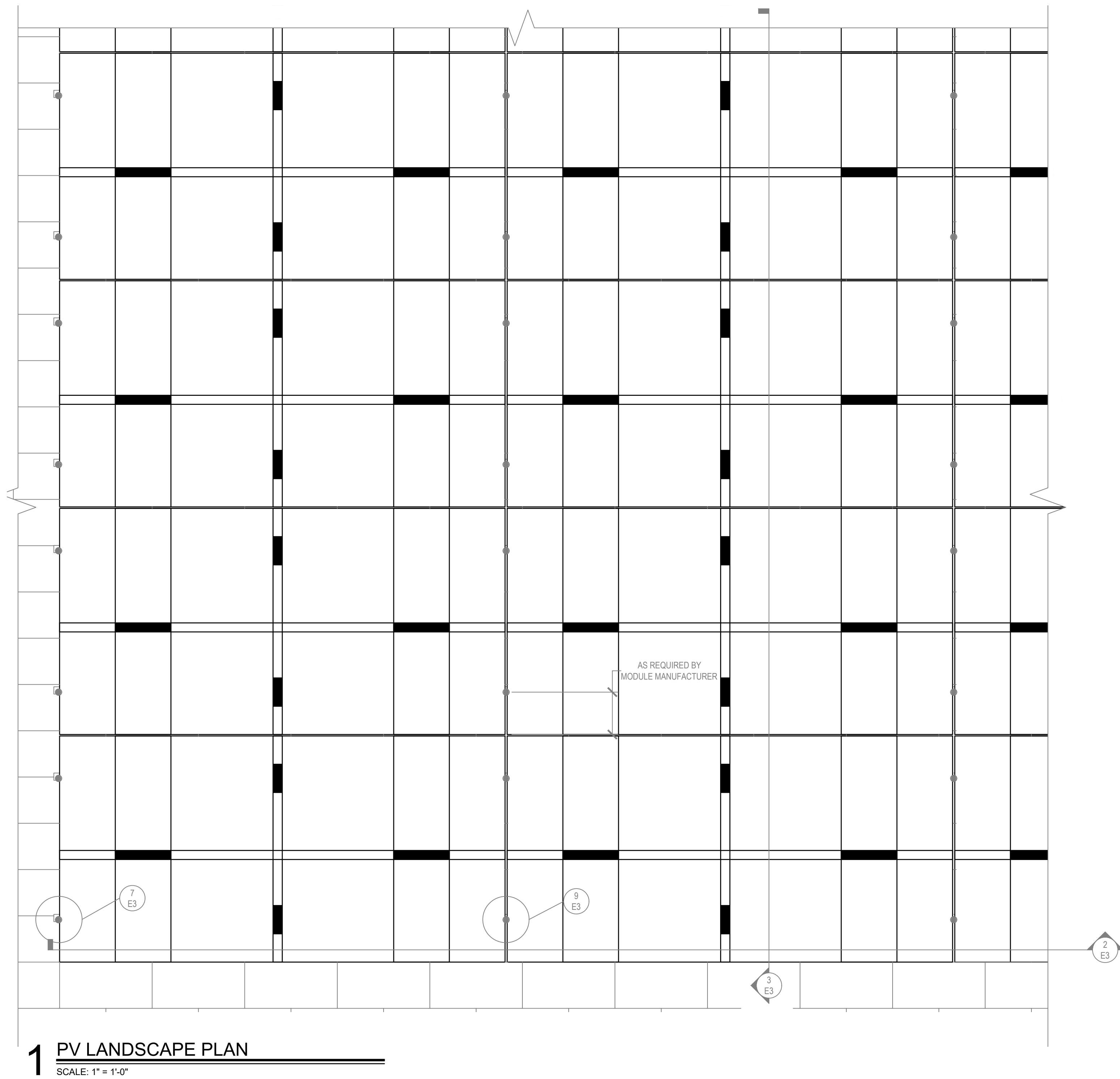
Drawing Title:
ENLARGED PV ROOF PLAN

Project Phase:
ISSUED FOR BID: 06/29/2021

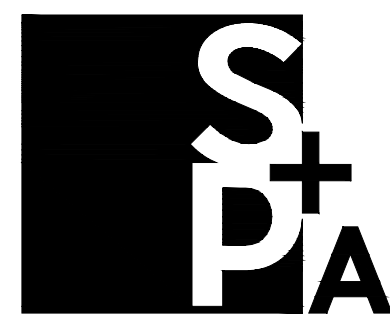
State Project Number:
139-0063 PV

Date: 06/04/2026
 Scale:
 AS NOTED
 Drawn By:
 MTC
 Project Number:
 25-241

E2



Project Title:
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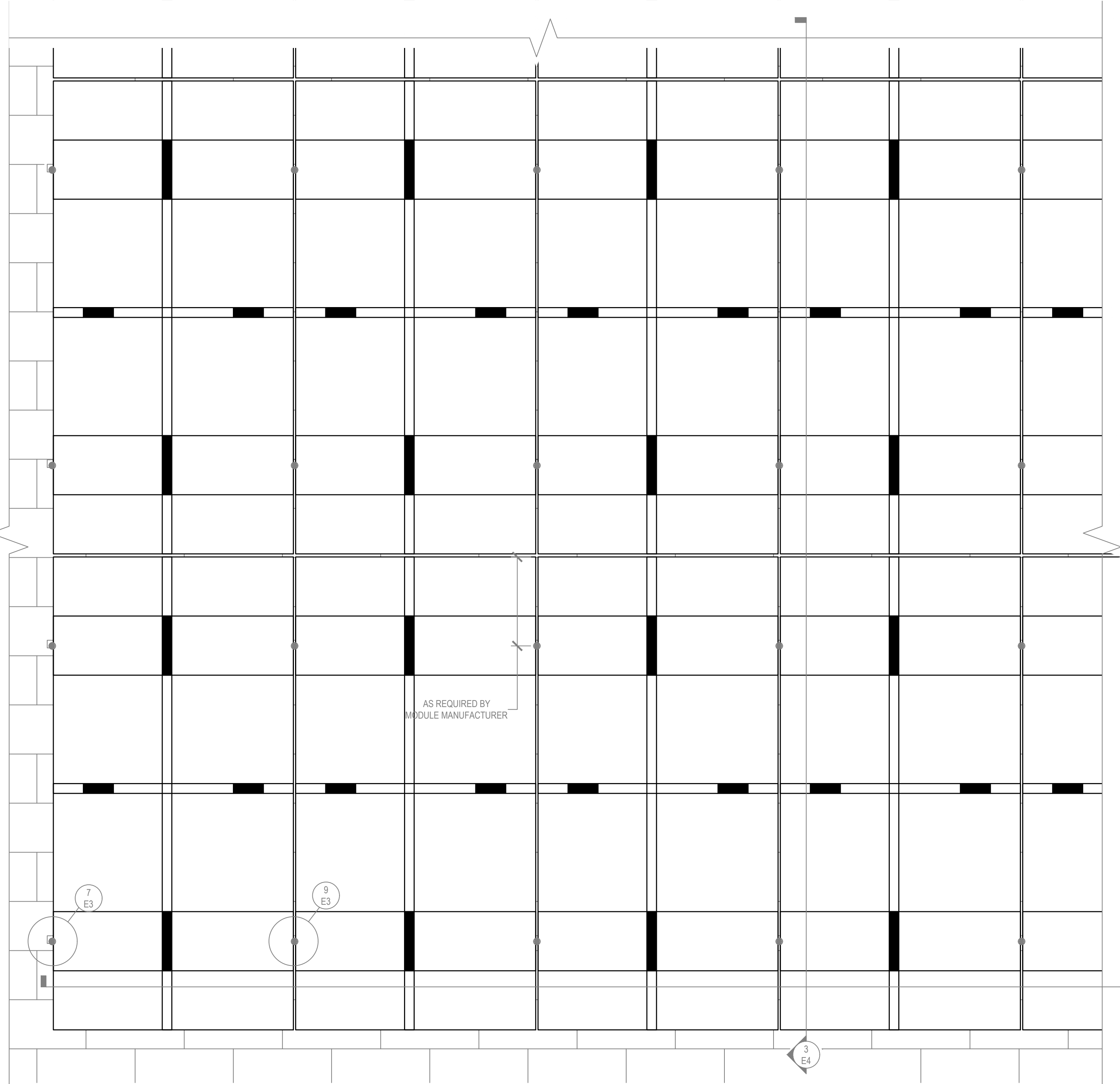
SILVER PETRUCCELLI + ASSOCIATES
3190 WHITNEY AVENUE HAMDEN CT 06518
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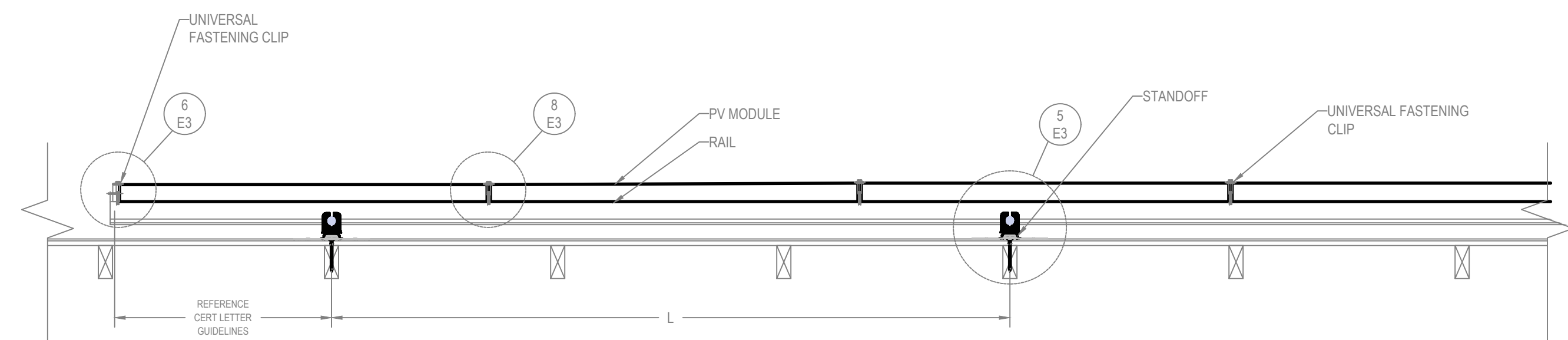
Drawing Title:
PV DETAILS
Project Phase:
ISSUED FOR BID: 06/29/2026
State Project Number:
139-0063 PV

Date:
06/04/2026
Scale:
AS NOTED
Drawn By:
MTC
Project Number:
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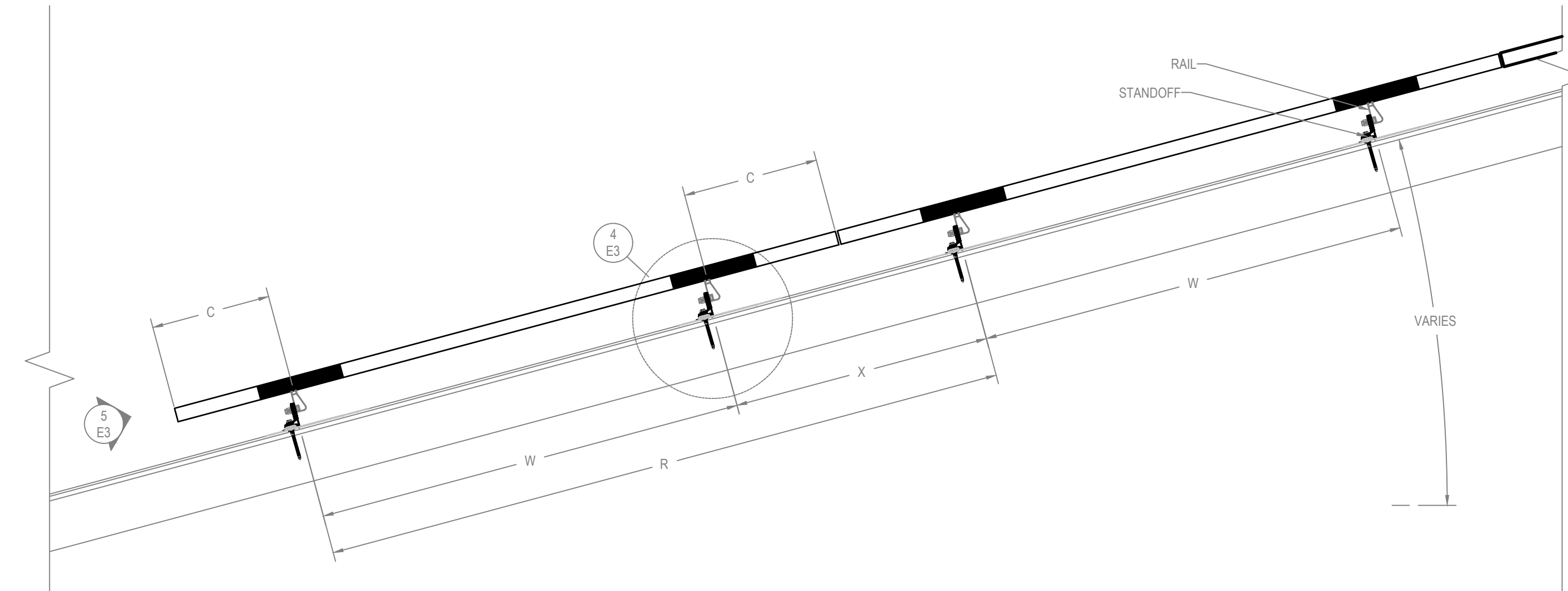
E4



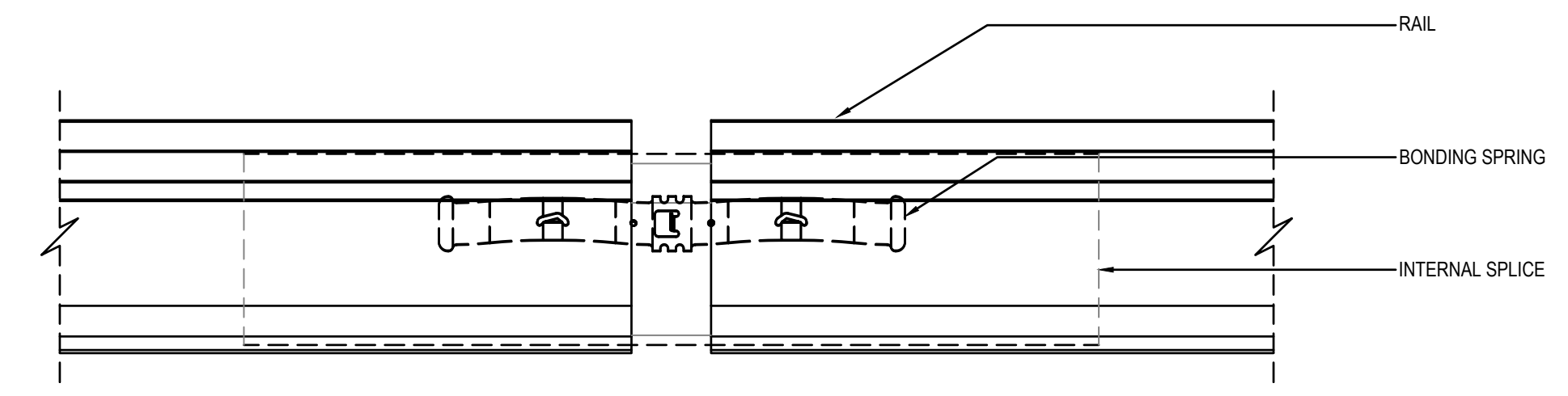
12 PV PORTRAIT PLAN
SCALE: 1" = 1'-0"



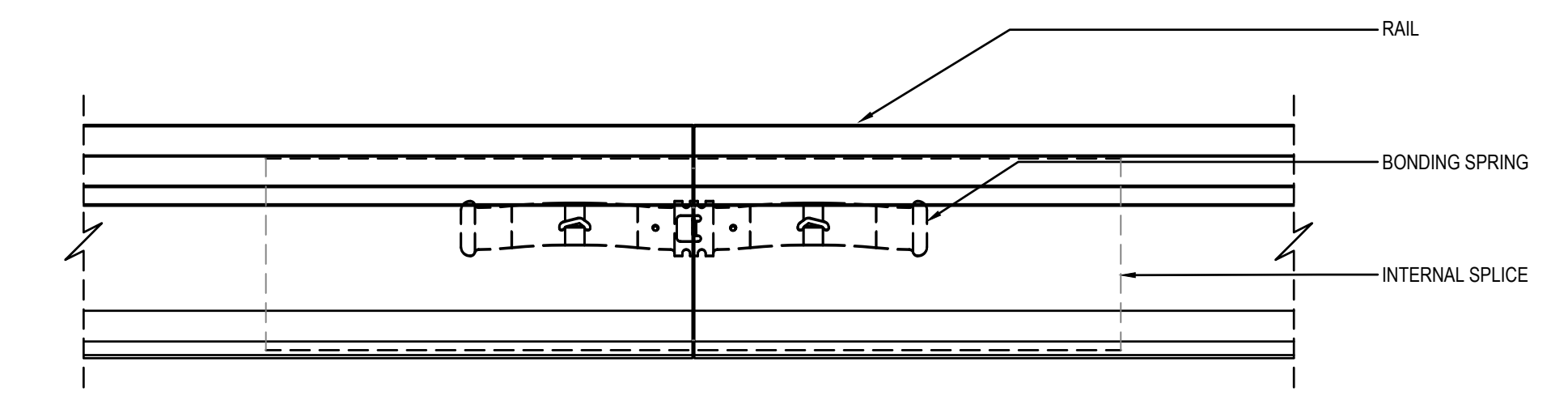
13 PV PORTRAIT FRONT
SCALE: 1" = 1'-0"



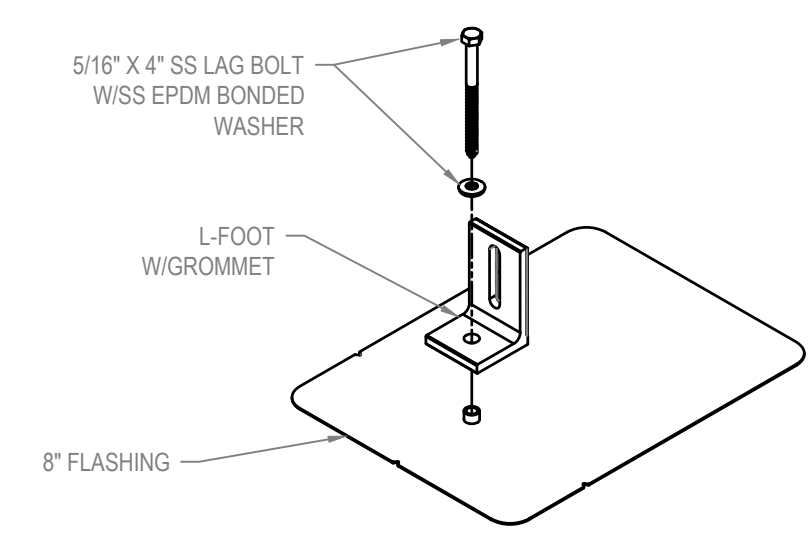
14 PV PORTRAIT SIDE
SCALE: 1" = 1'-0"



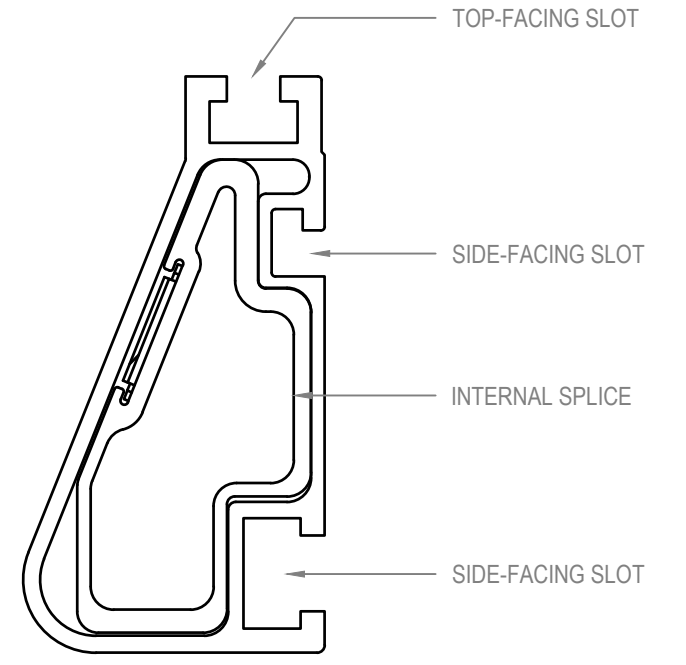
15 THERMAL EXPANSION CONNECTION
SCALE: 6" = 1'-0"



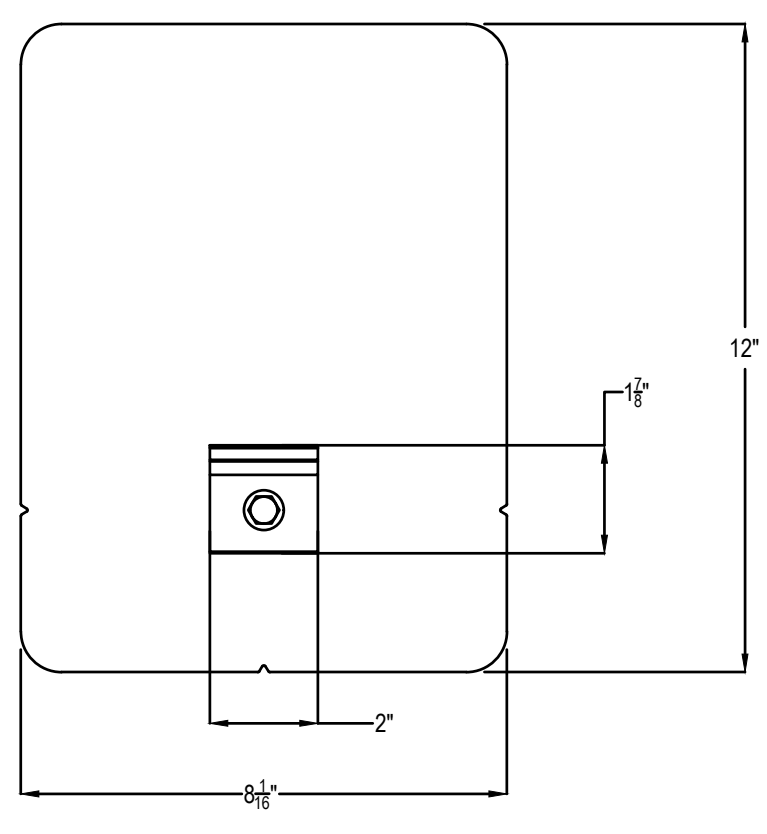
16 SPLICE CONNECTION
SCALE: 6" = 1'-0"



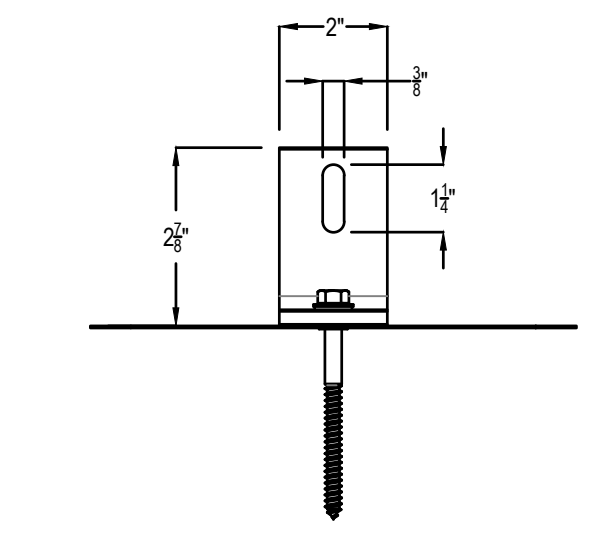
17 RAIL STANDOFF
SCALE: 6" = 1'-0"



18 RAIL SIDE PLAN
SCALE: 1'-0" = 1'-0"



19 RAIL STANDOFF PLAN
SCALE: 6" = 1'-0"



20 RAIL STANDOFF FRONT
SCALE: 6" = 1'-0"