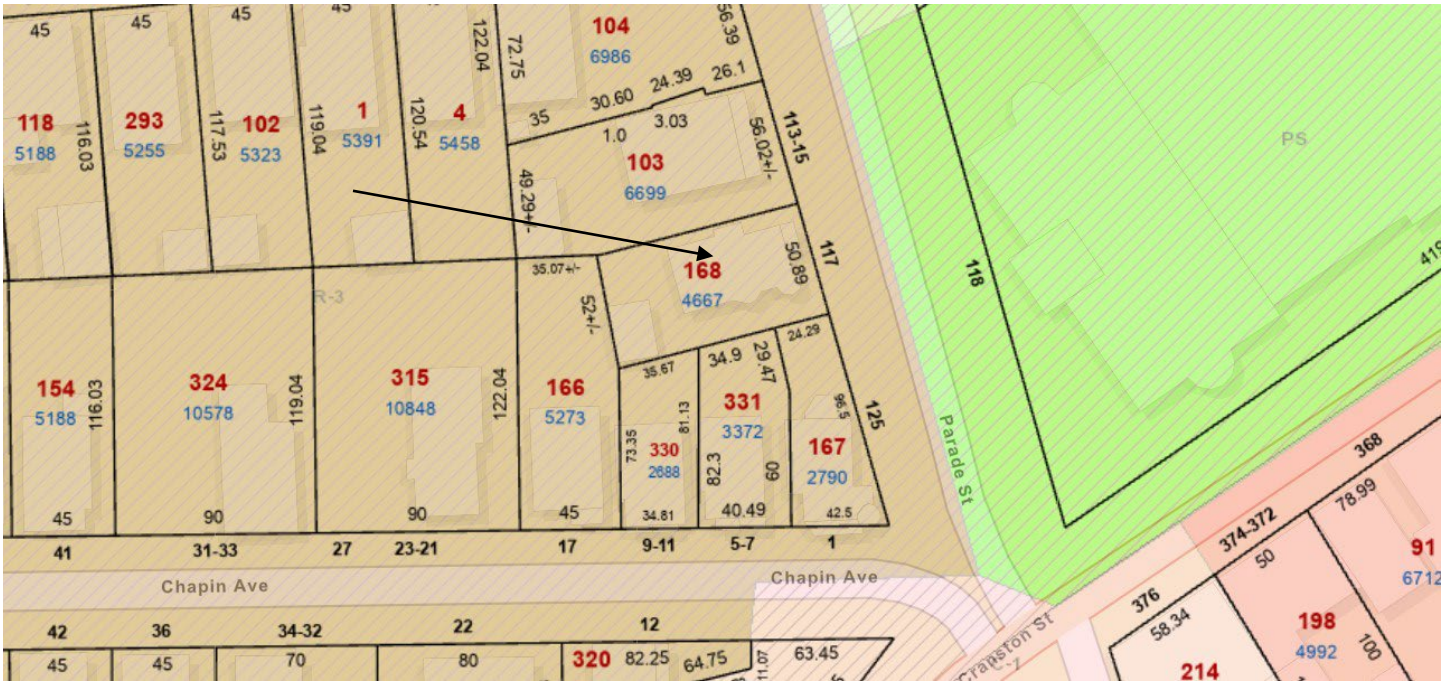
8. CASE 24.143, 117 PARADE STREET, House, 1889 (ARMORY)

1½-story; slate mansard; shingle cottage; with full height corner turret, gable dormers, modillion cornice, and modified entry. 20th C. garage, rear.
CONTRIBUTING



Arrow indicates 117 Parade Street.

Arrow indicates project location, looking north.

Applicant/Contractor: Kai R. Hadley, Portside Renewables, 77 N. Water St, New Bedford, MA 02740
Owner: Colin Bliss, 117 Parade Street, Providence, RI 02907

Proposal: The scope of work proposed consists of Minor Alterations and includes:

- installation of 19 solar panels to the mansard roof.

Issues: The following issues are relevant to this application:

- The application as submitted will not be visible from the public rights-of-way;
- The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, in the following manner: Panel layout shall be sympathetic or appropriate to design and scale of building. Rectangular configurations are preferred, with ample setback from edge of roof, dormers, chimneys, etc. (2.A); Panels shall be installed parallel to the existing roof slope and matched as closely as possible to the roof plane (2.B); Panels shall be installed without destroying or replacing original or historic materials or significantly compromising or altering the building's structural integrity (2.C); Panels shall be compatible in color to existing roofing insofar as possible (2.D); Installation of panels shall be as inconspicuous as possible when viewed from public right-of-way (2.E); Installation shall be reversible. Panels shall be removed when no longer viable or functioning and roofing restored to pre-existing conditions (2.F); and,
- Plans, specifications and pictures have been submitted.

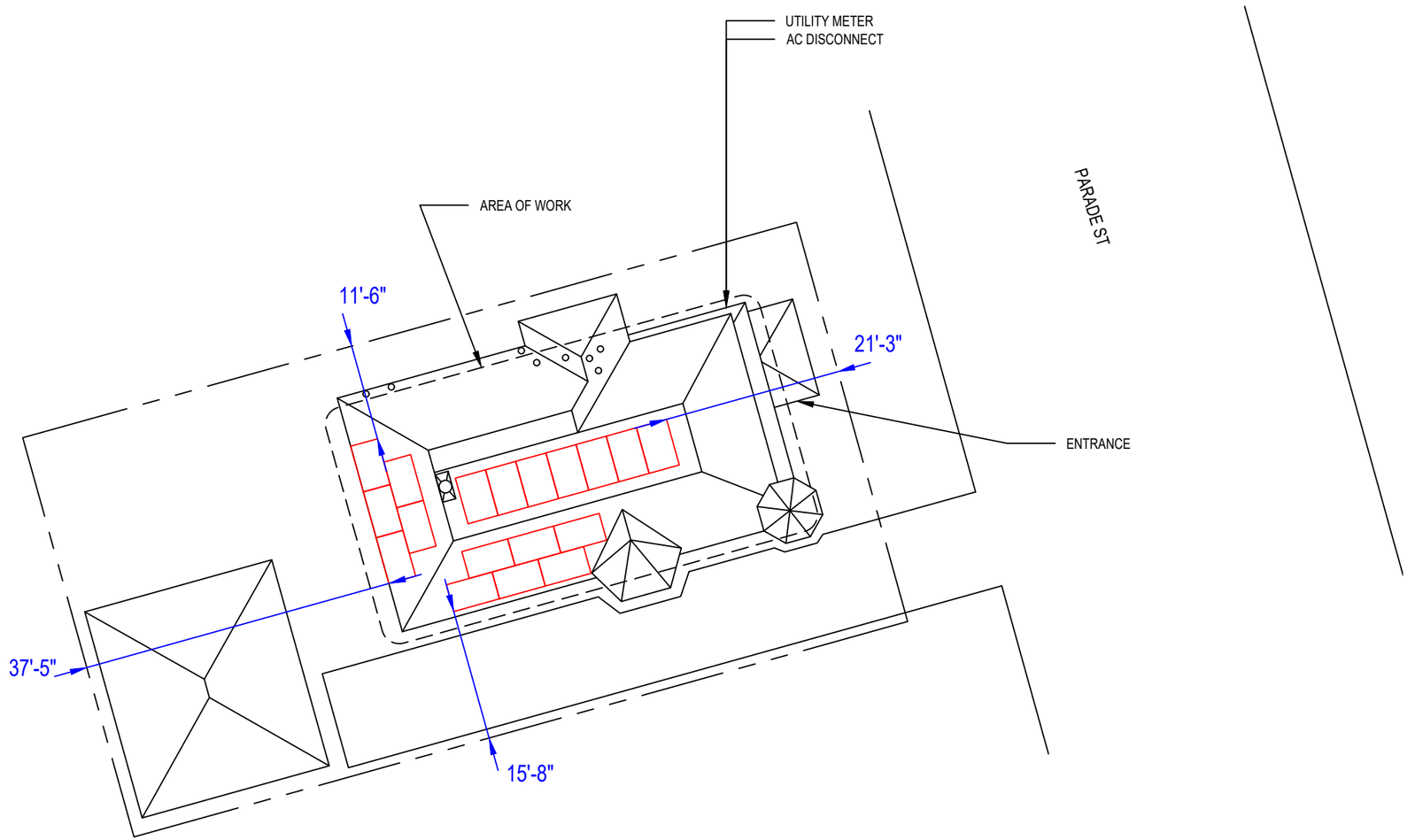
Recommendations: The staff recommends the PHDC make the following findings of fact:

a) 117 Parade Street is a structure of historical and architectural significance that contributes to the significance of the Armory local historic district, having been recognized as a contributing structure to the Broadway/Armory National Register Historic District;
b) The modifications as proposed meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, and the application is considered complete; and,
c) The work as proposed is in accord with PHDC Standards 8 & 9 as follows: 8) the work will be done so that it does not destroy the historic character of the property or the district as they are not on the primary elevation and will not be visible from the public rights-of-way; and, 9) Whenever possible… alterations to structures shall be done in such a manner that if removed in the future, the essential form and integrity of the structure and the site will be unimpaired.

Staff recommends a motion be made stating that: The application is considered complete. 117 Parade Street is a structure of historical and architectural significance that contributes to the significance of the Armory local historic district, having been recognized as a contributing structure to the Broadway/Armory National Register Historic District. The Commission grants Final Approval of the proposal as submitted as the proposed alteration is appropriate having determined that the proposed alteration does not destroy the historic character of the property or the district and are historically and architecturally compatible with the property and district. The proposed alteration meets Minor Alterations: Solar Energy Systems Guidelines, Section 2, is reversible and will not have an adverse effect on the property or district as they will not be visible from the public rights-of-way (Standards 8 & 9), and the recommendations in the staff report, with staff to review any additional required details.

GENERAL NOTES

1. FIELD VERIFY ALL MEASUREMENTS
2. ITEMS BELOW MAY NOT BE ON THIS PAGE



01 SITE PLAN

1/16" = 1'-0"

0 8' 16'

N
W E
S

PORTSIDE RENEWABLES

CONTRACTOR

PORTSIDE RENEWABLES, LLC

PHONE: 408.470.1467
ADRESS: 77 N.WATER ST,
NEW BEDFORD, MA 02740

LIC. NO.: GC-48542
HIC. NO.:
ELE. NO.:

NEW PV SYSTEM: 7.740 kWp

RESIDENCE

117 PARADE ST,
PROVIDENCE, RI 02909
APN: 360168

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

SITE PLAN

DATE: 09.25.2024

DESIGN BY: E.K.

CHECKED BY: M.M.

REVISIONS

A-101.00

GENERAL NOTES

1. FIELD VERIFY ALL MEASUREMENTS
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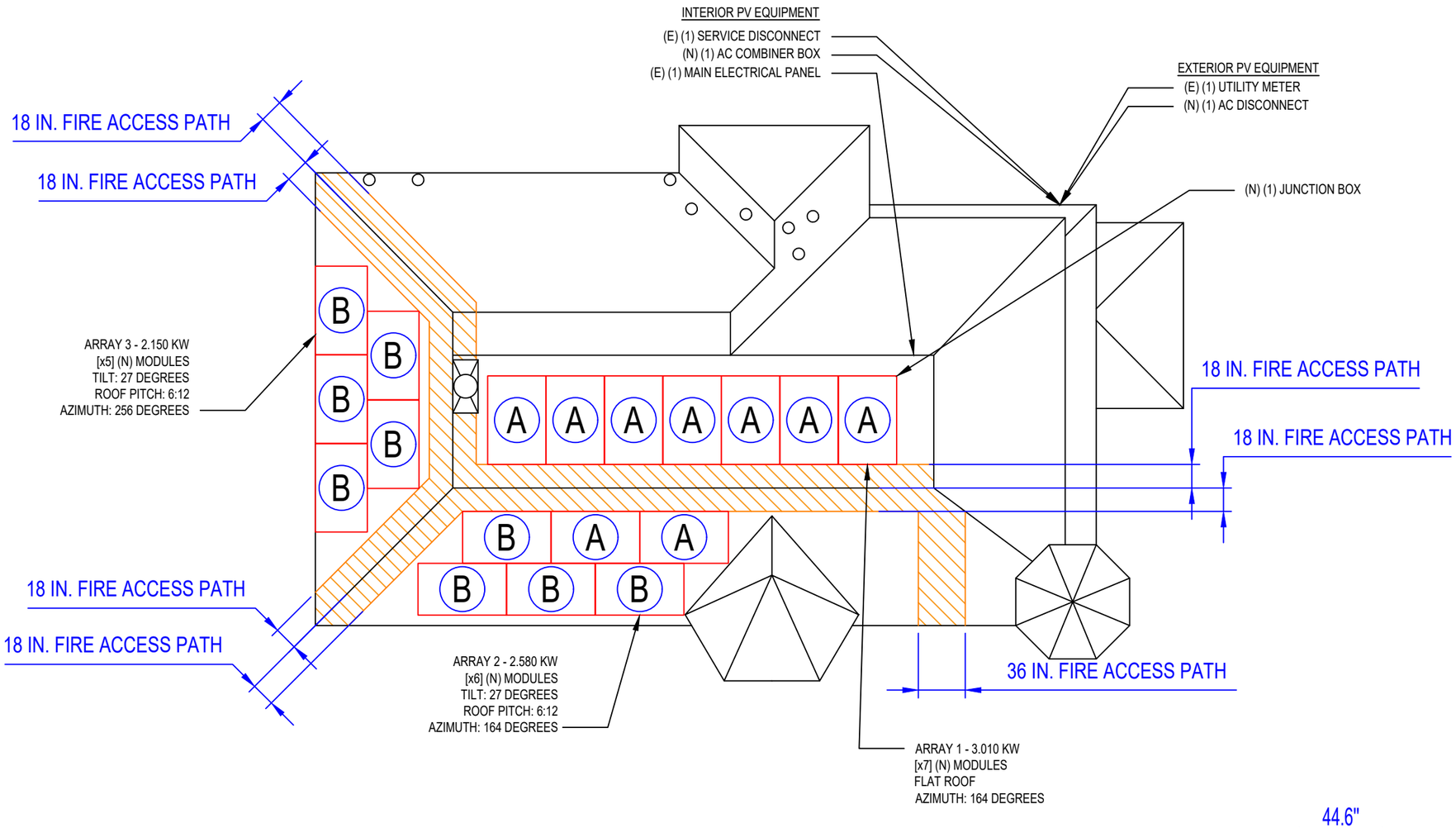
FIRE CLEARANCE

A — MODULE STRINGING

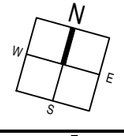
B — MODULE STRINGING

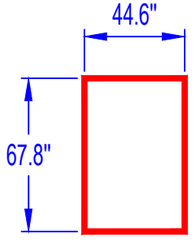


01 ELECTRICAL PLAN

1/8" = 1'-0"

0 4' 8'





MODULE:
SILFAB
SIL-430 QD
430 WATTS

PORTSIDE RENEWABLES

CONTRACTOR

PORTSIDE RENEWABLES, LLC

PHONE: 408.470.1467
ADRESS: 77 N.WATER ST,
NEW BEDFORD, MA 02740

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HIC. NO.:
ELE. NO.:

NEW PV SYSTEM: 7.740 kWp

RESIDENCE

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PROVIDENCE, RI 02909
APN: 360168

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ELECTRICAL PLAN

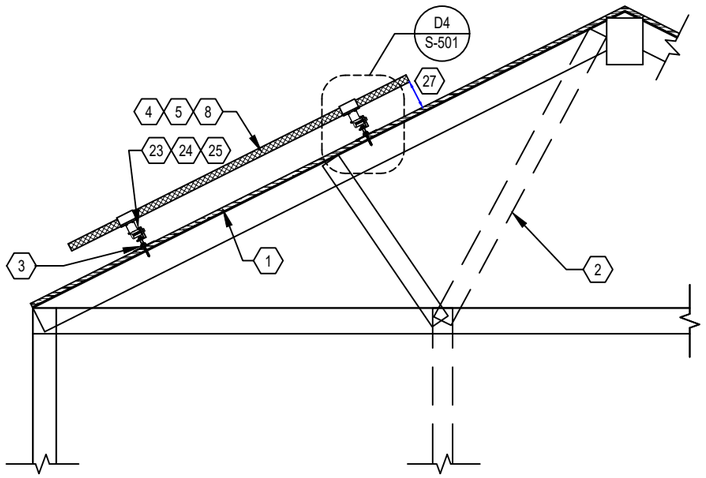
DATE: 09.25.2024

DESIGN BY: E.K.

CHECKED BY: M.M.

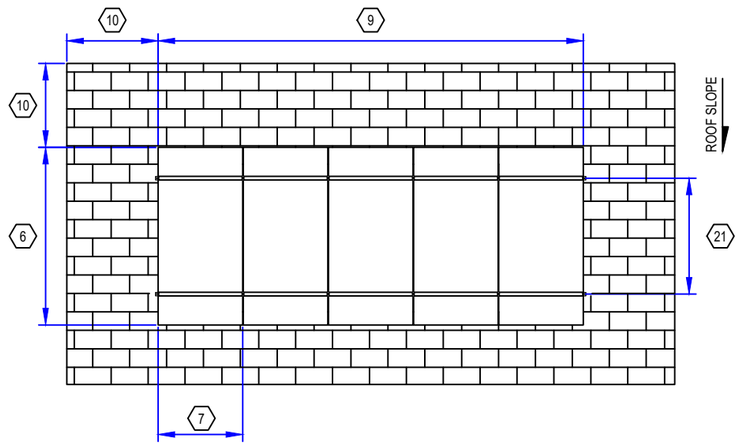
REVISIONS

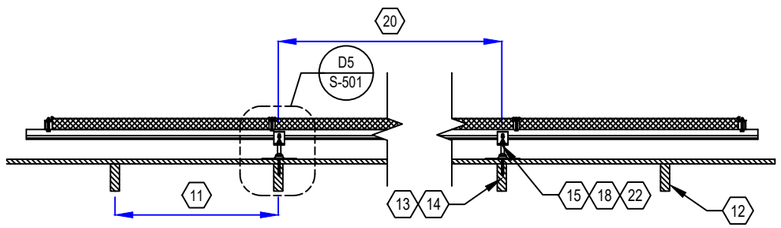
A-102.00



D1 RACKING DETAIL (TRANSVERSE)

NOT TO SCALE



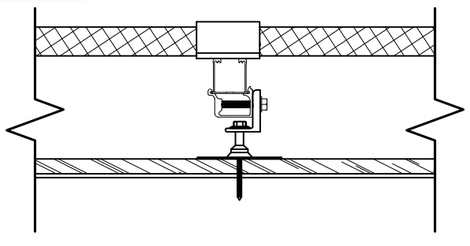


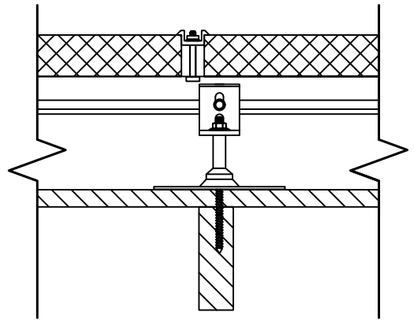
D2 RACKING DETAIL (LONGITUDINAL)

NOT TO SCALE

D3 RACKING DETAIL (TOP)

NOT TO SCALE





D4 DETAIL (TRANSVERSE)

NOT TO SCALE

D5 DETAIL (LONGITUDINAL)

NOT TO SCALE

GENERAL NOTES

1. FIELD VERIFY ALL MEASUREMENTS
2. ITEMS BELOW MAY NOT BE ON THIS PAGE

SHEET KEYNOTES

1. ROOF MATERIAL: SLOPED SLATE SHINGLE
2. ROOF STRUCTURE: TRUSS
3. ATTACHMENT TYPE: QUICKMOUNT PV QMNS: QBASE METAL, SHAKE AND SLATE MOUNT
4. MODULE MANUFACTURER: SILFAB
5. MODULE MODEL: SIL-430 QD
6. MODULE LENGTH: 67.8"
7. MODULE WIDTH: 44.6"
8. MODULE WEIGHT: 46.3 LBS.
9. SEE SHEET A-103 FOR DIMENSION(S)
10. MIN. FIRE OFFSET: 18" FROM RIDGE, AT LEAST 2 PATHWAY TO A STREET OR DRIVEWAY MINIMUM 3' WIDE
11. TRUSS SPACING: 24 IN. O.C.
12. TRUSS SIZE: 2X6 IN. NOMINAL
13. LAG BOLT DIAMETER: BOLT/SCREW SUPPLIED WITH RACKING.
14. LAG BOLT EMBEDMENT: PER RACKING MFG SPECIFICATIONS.
15. TOTAL # OF ATTACHMENTS: 40.
16. TOTAL AREA: 230.99 SQ. FT.
17. TOTAL WEIGHT: 585.32 LBS.
18. WEIGHT PER ATTACHMENT: 14.63 LBS.
19. DISTRIBUTED LOAD: 2.53 PSF
20. MAX. HORIZONTAL STANDOFF: 48 IN.
21. MAX. VERTICAL STANDOFF: IN ACCORDANCE WITH MODULE MANUFACTURER'S INSTRUCTIONS.
22. STANDOFF STAGGERING: YES
23. RAIL MANUFACTURER (OR EQUIV.): UNIRAC
24. RAIL MODEL (OR EQUIVALENT): NXT UMOUNT
25. RAIL WEIGHT: 0.401 PLF
26. MAX. TRUSS SPAN: 9 FT..
27. MODULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.

PORTSIDE RENEWABLES

CONTRACTOR

PORTSIDE RENEWABLES, LLC

PHONE: 408.470.1467
ADRESS: 77 N.WATER ST, NEW BEDFORD, MA 02740

LIC. NO.: GC-48542
HIC. NO.:
ELE. NO.:

NEW PV SYSTEM: 7.740 kWp

RESIDENCE

117 PARADE ST,
PROVIDENCE, RI 02909
APN: 360168

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ASSEMBLY DETAILS

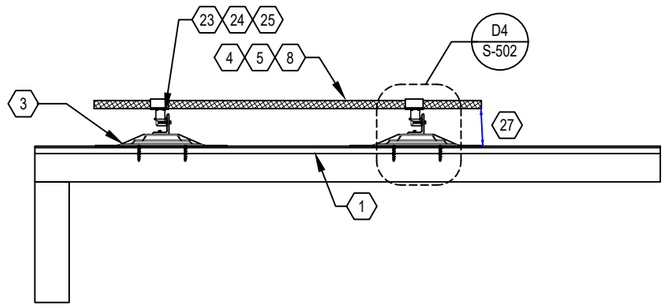
DATE: 09.25.2024

DESIGN BY: E.K.

CHECKED BY: M.M.

REVISIONS

S-501.00



D1 RACKING DETAIL (TRANSVERSE)

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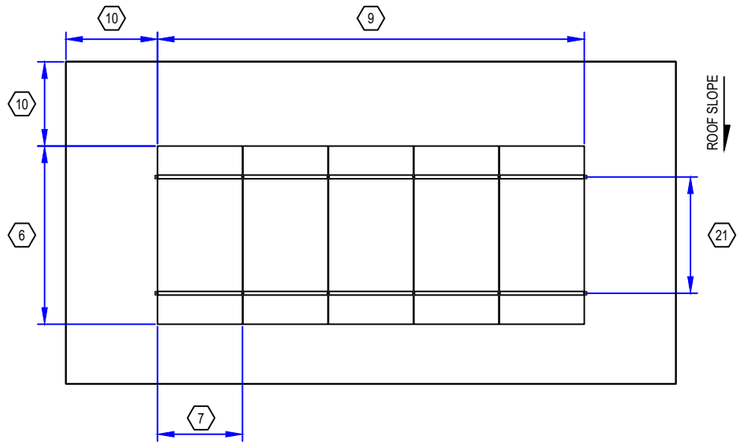

D3 RACKING DETAIL (TOP)

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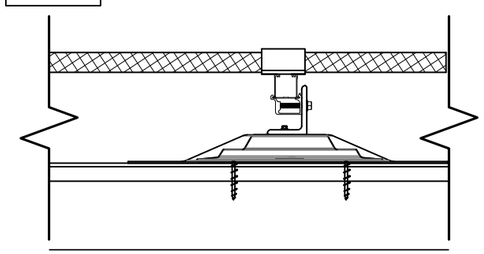

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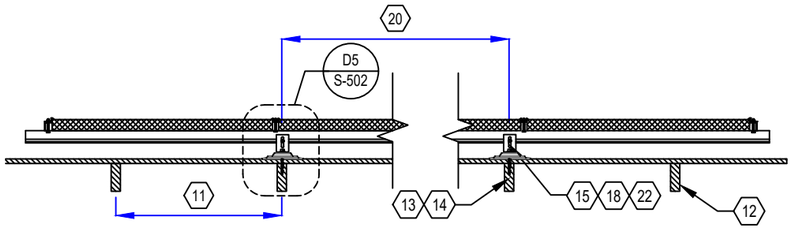

D2 RACKING DETAIL (LONGITUDINAL)

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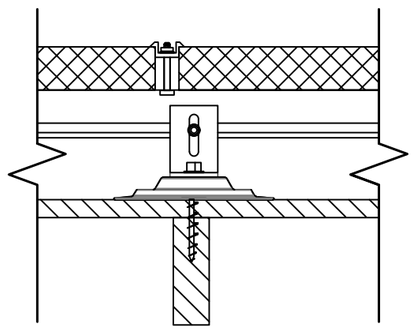

D5 DETAIL (LONGITUDINAL)

NOT TO SCALE

GENERAL NOTES

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SHEET KEYNOTES

1. ROOF MATERIAL: RUBBER MEMBRANE
2. ROOF STRUCTURE: RAFTER
3. ATTACHMENT TYPE: QUICKMOUNT PV QMNS: QBASE METAL, SHAKE AND SLATE MOUNT
4. MODULE MANUFACTURER: SILFAB
5. MODULE MODEL: SIL-430 QD
6. MODULE LENGTH: 67.8"
7. MODULE WIDTH: 44.6"
8. MODULE WEIGHT: 46.3 LBS.
9. SEE SHEET A-103 FOR DIMENSION(S)
10. MIN. FIRE OFFSET: 18" FROM RIDGE, AT LEAST 2 PATHWAY TO A STREET OR DRIVEWAY MINIMUM 3' WIDE
11. RAFTER SPACING: 24 IN. O.C.
12. RAFTER SIZE: 2X10 IN. NOMINAL
13. LAG BOLT DIAMETER: BOLT/SCREW SUPPLIED WITH RACKING.
14. LAG BOLT EMBEDMENT: PER RACKING MFG SPECIFICATIONS.
15. TOTAL # OF ATTACHMENTS: 15.
16. TOTAL AREA: 146.99 SQ. FT.
17. TOTAL WEIGHT: 361.63 LBS.
18. WEIGHT PER ATTACHMENT: 24.11 LBS.
19. DISTRIBUTED LOAD: 2.46 PSF.
20. MAX. HORIZONTAL STANDOFF: 48 IN.
21. MAX. VERTICAL STANDOFF: IN ACCORDANCE WITH MODULE MANUFACTURER'S INSTRUCTIONS.
22. STANDOFF STAGGERING: YES
23. RAIL MANUFACTURER (OR EQUIV.): UNIRAC
24. RAIL MODEL (OR EQUIVALENT): NXT UMOUNT
25. RAIL WEIGHT: 0.401 PLF
26. MAX. RAFTER SPAN: 8 FT.
27. MODULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.

PORTSIDE RENEWABLES

CONTRACTOR

PORTSIDE RENEWABLES, LLC

PHONE: 408.470.1467
ADRESS: 77 N.WATER ST, NEW BEDFORD, MA 02740

LIC. NO.: GC-48542
HIC. NO.:
ELE. NO.:

NEW PV SYSTEM: 7.740 kWp

RESIDENCE

117 PARADE ST,
PROVIDENCE, RI 02909
APN: 360168

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

ASSEMBLY DETAILS

DATE: 09.25.2024
DESIGN BY: E.K.
CHECKED BY: M.M.

REVISIONS

S-502.00

SILFAB PRIME NTC

SIL-430 QD

SILFAB SOLAR®

INTRODUCING NEXT-GENERATION N-TYPE CELL TECHNOLOGY

- Improved Shade Tolerance
- Improved Low-Light Performance
- Increased Performance in High Temperatures
- Enhanced Durability
- Reduced Degradation Rate
- Industry-Leading Warranty

SILFABSOLAR.COM

ELECTRICAL SPECIFICATIONS		430	
Test Conditions		STC	NOCT
Module Power (Pmax)	Wp	430	321
Maximum power voltage (Vpmax)	V	33.25	31.02
Maximum power current (Ipmax)	A	12.93	10.33
Open circuit voltage (Voc)	V	38.91	36.58
Short circuit current (Isc)	A	13.87	11.15
Module efficiency	%	22.1%	20.6%
Maximum system voltage (VDC)	V	1000	
Series fuse rating	A	25	
Power Tolerance	Wp	0 to +10	

Measurement conditions: STC 1000 W/m² • AM 1.5 • Temperature 25 °C • NOCT 800 W/m² • AM 1.5 • Measurement uncertainty ≤ 3%
Sun simulator calibration reference modules from Fraunhofer Institute. Electrical characteristics may vary by ±5% and power by 0 to +10 W.

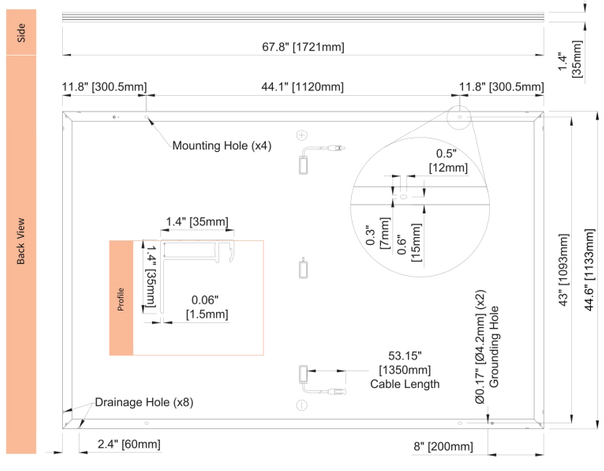
MECHANICAL PROPERTIES / COMPONENTS	METRIC	IMPERIAL
Module weight	21 kg ± 0.2 kg	46.3 lbs ± 0.4 lbs
Dimensions (H x L x D)	1721 mm x 1133 mm x 35 mm	67.8 in x 44.6 in x 1.37 in
Maximum surface load (wind/snow)*	4000 Pa rear load / 5400 Pa front load	83.5 lb/ft² rear load / 112.8 lb/ft² front load
Hail impact resistance	ø 25 mm at 83 km/h	ø 1 in at 51.6 mph
Cells	108 Half cells - N-Type Silicon solar cell 182 mm x 91 mm	108 Half cells - N-Type Silicon solar cell 7.16 in x 3.58 in
Glass	3.2 mm high transmittance, tempered, antireflective coating	0.126 in high transmittance, tempered, antireflective coating
Cables and connectors (refer to installation manual)	1350 mm, ø 5.7 mm, MC4 from Staubli	53.1 in, ø 0.22 in (12 AWG), MC4 from Staubli
Backsheet	High durability, superior hydrolysis and UV resistance, multi-layer dielectric film, fluorine-free PV backsheet	
Frame	Anodized aluminum (Black)	
Junction Box	UL 3730 Certified, IEC 62790 Certified, IP68 rated, 3 diodes	

TEMPERATURE RATINGS	
Temperature Coefficient Isc	0.04 %/°C
Temperature Coefficient Voc	-0.24 %/°C
Temperature Coefficient Pmax	-0.29 %/°C
NOCT (± 2 °C)	45 °C
Operating temperature	-40/+85 °C

WARRANTIES	
Module product workmanship warranty	25 years**
Linear power performance guarantee	30 years
	≥ 98% end 1st yr ≥ 94.7% end 12th yr ≥ 90.8% end 25th yr ≥ 89.3% end 30th yr

CERTIFICATIONS		SHIPPING SPECS	
Product	UL 61215, UL 61730, CSA C22.2#61730, IEC 61215, IEC 61730, IEC 61701 (Salt Mist Corrosion), IEC 62716 (Ammonia Corrosion), CEC Listed, UL Fire Rating: Type 2	Modules Per Pallet:	26 or 26 (California)
		Pallets Per Truck	32 or 30 (California)
Factory	ISO9001:2015	Modules Per Truck	832 or 780 (California)

* ⚠ Warning. Read the Safety and Installation Manual for mounting specifications and before handling, installing and operating modules.
** 12 year extendable to 25 years subject to registration and conditions outlined under "Warranty" at silfabsolar.com.
PAN files generated from 3rd party performance data are available for download at: silfabsolar.com/downloads.



SILFAB SOLAR INC.

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240 Courtneypark Drive East
Mississauga ON L5T 2Y3 Canada
T +1 905.255.2501
F +1 905.696.0267

PORTSIDE RENEWABLES

CONTRACTOR

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APN: 360168

ENGINEER OF RECORD

PAPER SIZE: 11" x 17" (ANSI B)

RESOURCE DOCUMENT

DATE: 09.25.2024
DESIGN BY: E.K.
CHECKED BY: M.M.

REVISIONS

R-001.00


125 Parade St
Providence, Rhode Island
Google Street View
Jul 2019
See more dates
Parade St
Google
Hudson St
Wood St
Chapin Ave
Cranston St
Harrison St


113 Parade St
Providence, Rhode Island
Google Street View
Jul 2019
See more dates
Parade St
Hudson St
Wood St
Chapin Ave
Cranston
Harrison St
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