



70 TAPLEY STREET
SPRINGFIELD, MA 01104
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www.springfield-ma.gov

MEETING AGENDA

DATE: Thursday, January 15, 2026

TIME: 5:30 PM

PLACE: Congressman Richard E. Neal Municipal Operations Center
Video Conference Room
70 Tapley Street, Springfield, MA 01104

I. ROLL CALL & PROCEDURES

II. ACCEPTANCE OF MINUTES

- 1) *SPRINGFIELD HISTORICAL COMMISSION MEETING HELD ON DECEMBER 18, 2025*

III. PUBLIC HEARINGS (Continued)

- 1) **102 THOMPSON STREET:** Porch Renovations (In Response to Stop Work Order)
- 2) **92 MARENGO PARK:** Solar Powered Panels
- 3) **30 SPRUCELAND AVENUE:** Solar Powered Panels
- 4) **21 MOUNTAINVIEW STREET:** Renovations to Windows, Door, and Foundation Line (In Response to Violation)

IV. PUBLIC HEARINGS (New)

- 1) **120 HARVARD STREET:** Solar Powered Panels
- 2) **35 RIVERVIEW TERRACE:** Solar Powered Panels
- 3) **111 FLORIDA STREET:** Roof Replacement
- 4) **111 FLORIDA STREET:** Solar Powered Panels
- 5) **172 THOMPSON STREET:** Roof Replacement (Already installed)
- 6) **WS BOWDOIN STREET (01680-0015):** Single-Family Dwelling

V. OTHER MATTERS PROPERLY BEFORE THE COMMISSION

- 1) *ADMINISTRATIVE UPDATES*
- 2) *CORRESPONDENCE TO COMMISSION*
- 3) *FEBRUARY 5, 2025 QUORUM CALL*
- 4) *PUBLIC SPEAK-OUT SESSION*

SPRINGFIELD HISTORICAL COMMISSION

THURSDAY, JANUARY 15, 2026 | HEARING OVERVIEWS

CONTINUED HEARINGS

102 THOMPSON STREET (HARDSHIP)

- ***REASON FOR CONTINUANCE:*** The hearing was continued for the purpose of allowing the Petitioner to research how to recreate and restore the historic railing, in addition for the purpose of submitting a rendering of what is proposed.
- ***STAFF COMMENTS:***
 - Staff was unable to connect with the Petitioner prior to the evening's hearing upon multiple attempts.
- ***APPLICATION OVERVIEW:*** The Petitioner has submitted an Application for Certificate of Hardship for the purposes of obtaining approval for the already completed exterior renovations of the first- and second-floor front porches. When comparing the completed work with what previously existed:
 - ***First Floor Front Porch***
 - The front porch steps black pipe handrail was replaced with what appears to be two wooden railings, presumed pressure treated, with the spindles/balusters affixed to the front of the rails instead of sitting in-between the two rails;
 - The porch railings were completely replaced with what appears to be pressure-treated wood, with the spindles/balusters affixed to the front of the rails instead sitting in-between the two rails; and
 - The wood decking was replaced with pressure-treated wood.
 - ***Second Floor Front Porch***
 - The porch railings were completely replaced with presumed pressure-treated wood. The spindles/balusters appear to be affixed to the back of the rails instead of sitting in-between the two rails;
 - The wood shakes could potentially have been replaced
- ***LETTER OF AUTHORIZATION:*** n/a
- ***SUBMITTED WRITTEN COMMENT:***
 - Jim Boone

92 MARENGO PARK (APPROPRIATENESS)

- ***REASON FOR CONTINUANCE:*** The hearing was continued because the landowner and/or a representative failed to appear before the Commission to present the application.
- ***LOCAL HISTORIC DISTRICT:*** Forest Park Heights
- ***APPLICATION SUBMISSION DATE:*** Tuesday, December 9, 2025
- ***APPLICATION EXPIRATION DATE:*** Saturday, February 7, 2026

- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 27 solar powered panels onto all sides the primary building with the utility equipment being placed at the north rear side of the primary building. The conduit is also proposed to be placed at the north rear side of the building.
 - The vast majority of the panels are unlikely to be seen from the public way, however, the four panels on MP4 will be conspicuously visible (see plans).
- **STAFF COMMENTS:**
 - The Commission should ascertain whether the Petitioner is proposing to paint the conduit.
- **LETTER OF AUTHORIZATION:** Unknown
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 27 solar powered panels onto all sides of the primary building with the utility equipment being placed at the north rear side of the primary building; the conduit will also be placed along the north rear side of the building and shall be painted the same color as to the exterior surface it is affixed to, as presented in the application and during this evening's hearing.

30 SPRUCELAND AVENUE (APPROPRIATENESS)

- **REASON FOR CONTINUANCE:** The hearing was continued to allow the representative to update the proposed design in accordance with the Commission's feedback, which included:
 - Relocating as many of the solar panels from the primary building's roof onto the detached garage;
 - Moving the shut-off switches and utility equipment as far back on the primary building as possible;
 - Ensuring that the conduit cannot be seen and run in the attic; and
 - Any visible conduit shall be painted to match the surface it is affixed to.
- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Thursday, December 11, 2025
- **APPLICATION EXPIRATION DATE:** Monday, February 9, 2026
- **STAFF COMMENTS:**
 - The Commission should ascertain where the utility equipment and conduit will be located.
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 33 solar powered panels onto all sides of the primary building with the utility equipment being placed at the west side of the primary building, seemingly towards the front of building. The conduit is proposed to be located on the rear north side of the primary building.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT APPROVAL MOTION:**

To approve the installation of __ solar powered panels onto [REDACTED] of the primary buildings and __ solar powered panels onto the detached garage, with the utility equipment being placed on the [REDACTED] side of the building; the conduit will be located towards the [REDACTED] side of the primary building and shall be painted to match the exterior surface it is affixed to, as presented in the application and during this evening's hearing.

21 MOUNTAINVIEW STREET (HARDSHIP)

- **REASON FOR CONTINUANCE:** The hearing was continued to allow Staff to confirm that the alterations had been made without permits from the Building Department in addition to allowing the Petitioner to attend the hearing, or have the Petitioner send a representative that is authorized to acquiesce to proposed alterations and/or modifications from the Commission.
- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Monday, December 1, 2025
- **APPLICATION EXPIRATION DATE:** Friday, January 30, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Hardship for the purposes of resolving various violations that were identified by Staff:
 - **Windows:** In 2023, shortly after a fire, the Petitioner had submitted an application to replace the building's siding and windows; the Commission needed more information as it related to the windows and continued the hearing to a future date. The Petitioner and/or a representative did not attend and the Commission rejected the window portion of the application. Subsequently, the unauthorized installation of the windows was completed.
 - **Door:** The first-floor front door was replaced without approval.
 - **Foundation:** The Petitioner advised that there was a cracked foundation, and therefore, covered it with a concrete stone pattern.
- **APPROVED WINDOW STATUS:** The model number was not provided; therefore, Staff was unable to ascertain whether the window has been approved in the past.
- **STAFF COMMENTS:**
 - More information relating to the windows and the door is required. A continuance will likely be required.
- **LETTER OF AUTHORIZATION:** Maybe (Paul Yusenko on Behalf of Nick _____)
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT CONTINUANCE MOTION:**

To continue the hearing to the February 5, 2026 meeting agenda.

NEW HEARINGS

120 HARVARD STREET (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Monday, December 15, 2025

- **APPLICATION EXPIRATION DATE:** Friday, February 13, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 22 solar powered panels onto the south side of the primary building with the utility equipment being placed on the western side of the building located midway along the side of the building. The conduit will also be presumed located midway on the western side of the building and is currently planned to remain unpainted silver piping.
 - The vast majority of the panels are unlikely to be seen from the public way, with potential minimal visibility of the panels on Roof Section R8 (see plans).
- **STAFF COMMENTS:**
 - The Commission should ascertain where the utility equipment and conduit will be located, and whether the conduit can be painted to match the surface it is affixed to.
- **LETTER OF AUTHORIZATION:** Yes (Trinity Solar on behalf of Charles Muthua)
- **SUBMITTED WRITTEN COMMENT:** n/a
- **DRAFT APPROVAL MOTION:**

To approve the installation of 22 solar powered panels onto the south side of the primary building, with the utility equipment being placed on the _____ side of the building; the conduit will be located towards the _____ side of the primary building and shall be painted to match the exterior surface it is affixed to, as presented in the application and during this evening’s hearing.

35 RIVERVIEW TERRACE (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Wednesday, December 24, 2025
- **APPLICATION EXPIRATION DATE:** Saturday, February 22, 2026
- **STAFF COMMENTS:**
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 28 solar powered panels onto largely the south and east facing sides of the primary building with the utility equipment being placed on the western side of the building located towards the front of the building, but seemingly behind a fence. The conduit will also be presumed located on the western side of the building, towards the front, and is currently planned to remain unpainted silver piping.
 - The panels on the eastern part of the building – on Roof Sections R3 and R4 – will be seen from the public way (see plans).
- **STAFF COMMENTS:**
 - The Commission should ascertain where the utility equipment and conduit will be located, and whether the conduit can be painted to match the surface it is affixed to.
- **LETTER OF AUTHORIZATION:** Yes (Trinity Solar on behalf of Cynthia Tucker)
- **SUBMITTED WRITTEN COMMENT:** None
- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 21 solar powered panels onto the south and east facing sides of the primary building, with the utility equipment being placed on the western side of the building located towards the [REDACTED] side of the building; the conduit will be located on the [REDACTED] side of the building towards the [REDACTED] of the

building, and shall be painted to match the exterior surface it is affixed to, as presented in the application and during this evening's hearing.

111 FLORIDA STREET – ROOF (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Tuesday, December 16, 2025
- **APPLICATION EXPIRATION DATE:** Saturday, February 14, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of replacing a slate and asphalt shingle roof with Owens Corning TruDefinition Duration asphalt shingles.
- **STAFF COMMENTS:**
 - The Petitioner has identified that some of the roof being replaced is slate; however, has not indicated where on the roof the slate exists.
 - The Commission should ascertain what color shingle the Petitioner is proposing with the understanding that black is not option in accordance with the McKnight Local Historic Guidelines.
- **LETTER OF AUTHORIZATION:** Yes (anticipating formal correspondence in the coming days)
- **SUBMITTED WRITTEN COMMENT:** n/a
- **DRAFT APPROVAL MOTION:**

To approve the proposed replacement of the existing slate and asphalt shingle roof with Owens Corning TruDefinition Duration asphalt shingles, _____ in color, as presented in the application and during this evening's hearing.

111 FLORIDA STREET – SOLAR (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Monday, December 15, 2025
- **APPLICATION EXPIRATION DATE:** Friday, February 13, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 28 solar powered panels onto the north rear side of the primary building, as well as on the detached garage, with the utility equipment being placed on the north rear side and eastern side (towards the rear) of the primary building. The connected conduit will also be presumedly on the north rear side and eastern side (towards the rear) of the primary building.
 - The panels on the northern rear side of the primary building, as well as the panels on the detached garage, are likely to be minimally visible from the public way (see plans).
- **STAFF COMMENTS:**
 - The Commission should ascertain more information about the conduit, specifically where it will be located, and if visible, whether the conduit can be painted to match the surface it is affixed to.
- **LETTER OF AUTHORIZATION:** Yes (Sunrun on behalf of Derrick Hill for the Solar Project)
- **SUBMITTED WRITTEN COMMENT:** None

- **DRAFT APPROVAL MOTION:**

To approve the proposed installation of 28 solar powered onto north rear side of the primary building, as well as on the detached garage, with the utility equipment being placed on the north rear side and eastern side (towards the rear) of the primary building; the conduit will be located on the [REDACTED] of the building towards the rear of the building, and shall be painted to match the exterior surface it is affixed to, as presented in the application and during this evening's hearing.

172 THOMPSON STREET (UNDECLARED)

- **LOCAL HISTORIC DISTRICT:** McKnight
 - **APPLICATION SUBMISSION DATE:** Wednesday, December 10, 2025
 - **APPLICATION EXPIRATION DATE:** Sunday, February 8, 2026
 - **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of _____ for the purpose of obtaining approval for replacing the previous asphalt shingle and slate roof with asphalt shingles.
 - **STAFF COMMENTS:**
 - The Petitioner has informed Staff that some of the roof that had been replaced was previously slate; however, has not indicated where on the roof the slate exists.
 - **LETTER OF AUTHORIZATION:** n/a
 - **SUBMITTED WRITTEN COMMENT:** n/a
 - **DRAFT APPROVAL MOTION:**

To approve the already installed replacement asphalt shingle roof, as presented in the application and during this evening's hearing.
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WS BOWDOIN STREET (01680-0015) (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
 - **APPLICATION SUBMISSION DATE:** Wednesday, December 17, 2025
 - **APPLICATION EXPIRATION DATE:** Sunday, February 15, 2026
 - **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of constructing a Single-Family Dwelling. The Petitioner is specifically proposing the following:
 - Pella Lifestyle Serries True Divided Light white aluminum clad wood, double-hung, double-pane, six-over-two windows (Product # 300001);
 - Simpson Door Company (#77504 Nantucket) white wood, traditional single-pane, Nantucket style glass placement door;
 - Hardie Plank Lap Siding (Model: Select Cedarmill);
 - Landmark 30-year architectural asphalt shingles, [REDACTED] in color;
 - Heat pump design as provided on the floor plan.
 - **APPROVED WINDOW STATUS:** The Pella Reserve Lifestyle Double-Hung Aluminum Exterior Cladding window was approved in an Application for Certificate of Appropriateness in November 2024 relating to the property at 52 Mattoon Street.
 - **LETTER OF AUTHORIZATION:** Yes (Steve Jablonski on behalf of Guidewire)
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- **SUBMITTED WRITTEN COMMENT:**

- Jim Boone (Submitted January 9, 2026)

- **DRAFT APPROVAL MOTION:**

To approve the proposed single-family dwelling at W S Bowdoin Street (Property ID #: 01680-0015) as presented in the application and today's hearing, which contains the following features:

- Pella Lifestyle Serries True Divided Light dark brown/black/burgundy aluminum clad wood, double-hung, double-pane, six-over-two windows (Product # 300001);
- Simpson Door Company (#77504 Nantucket) clear stained fir wood, traditional single-pane, Nantucket style glass placement door;
- Hardie Plank Lap Siding (Model: Select Cedarmill);
- Landmark 30-year architectural asphalt shingles, [redacted] in color;
- Heat pump design as provided on the floor plan.
- [A single door entrance for the two proposed units];
- [if applicable, insert porch information here – span of porch];
- [if applicable, insert porch flooring information here];
- [if applicable, insert railing information here; pipe railing included?];
- [if applicable, insert trim information here];
- [if applicable, insert specific information relating to aesthetic details here – e.g. specific types of windows, etc.];
- [if applicable, insert specific information regarding shake style]

- **DRAFT CONTINUANCE MOTION:**

To continue the hearing to the Commission's next meeting agenda – February 5, 2026.

OTHER MATTERS BEFORE THE COMMISSION

NONE

ADMINISTRATIVE UPDATES

- **QUESTIONS TO THE COMMISSION**

- NONE

- **RECENTLY APPROVED CERTIFICATES OF NON-APPLICABILITY**

- **2612 MAIN STREET** → Temporary fixtures to stabilize a roof in disrepair
- **85-87 ELLIOT STREET** → Exterior repairs to the rear porch
- **132 HARVARD STREET** → Asphalt shingle roof to asphalt shingle roof
- **74 FAIRFIELD STREET** → Replace flat roof on detached garage with no change in materials, design, or outward appearanc.

- **LETTERS OF SUPPORT ISSUED**

- **THE RAINVILLE (32 BYERS STREET)** → Updated (December 23, 2025)

- **NEW COURT TERRACE APARTMENTS (68-70, 76 & 84-88 BYERS STREET) → Updated (December 23, 2025)**
- **NEW VIOLATIONS ISSUED**
 - **NONE**
- **VIOLATION RESOLUTION IN PROGRESS**
 - **21 MOUNTAIN VIEW STREET → Did not resolve replacement windows that were part of the original 2023 application (On Current Agenda)**
 - **174 PINEWOODS AVENUE → Installation of Compressor Unit (Contacted by Landowner)**
 - **207 PINE STREET → Deviations from Issued Certificate (Expected on Future Agenda)**
- **UNRESOLVED VIOLATIONS**
 - **158 SHERMAN STREET → Replacement of Side and Front Porch Railings**
 - **275 PINE STREET → Replacement of Rear Porch Railings**
- **RESOLVED VIOLATIONS**
 - **NONE**
- **STOP-WORK ORDERS ISSUED**
 - **NONE**
- **INQUIRIES ISSUED**
 - **NONE**



SPRINGFIELD HISTORICAL COMMISSION MEETING MINUTES

THURSDAY, DECEMBER 18, 2025

COMMISSIONERS IN ATTENDANCE:

Kevin Coffee (in-person)
Judith Crowell (in-person)
Walter Kroll, Vice Chair (in-person)
Alfonso Nardi, Chair (absent)
Vana Nespor (in-person)
Vincent Walsh (in-person)
Marisa Zorzi (in-person)

STAFF IN ATTENDANCE:

Andrew Strniste, Director of Community Planning (in-person)
Kenneth Shea, Second Associate City Solicitor (remote)

PUBLIC IN ATTENDANCE:

Lauren Hirth (30 Spruceland Avenue Representative | in-person)
Marc Prince (280 Washington Street | in-person)
Sam Stonefield (49 Florentine Gardens | in-person)
Alison Stonefield (49 Florentine Gardens | in-person)
Harry Seymour (68 Washington Road | in-person)
Jack Hunter (292 Washington Boulevard | in-person)
Ms. Hunter (292 Washington Boulevard | in-person)
Ziyad Jaraad (102 Thompson Street | in-person)
Ovidia Lopez (47 Westminster Street | in-person)
Rolando Meono (47 Westminster Street | in-person)
Christi Young (30 Westernview Street | in-person)
Jeremy Young (30 Westernview Street | in-person)
Suzanne H Chouljian (77 Adams Street, Quincy, MA | in-person)
William Stonefield (77 Adams Street, Quincy, MA | in-person)
Daniel Diaz (146 Garland Street | in-person)
Unknown Attendee (75 Shephard Drive | in-person)
Kamileh Crocco (24 Mountainview Street | in-person)
Siervo Jimenez (80 Cornell Street | telephone)
Carol Dooney (McCaffery; Downtown Project | remote)
Chantel Croteau (40 Ingersoll Grove Representative | in-person)
Joseph Vasquez (40 Ingersoll Grove Representative | in-person)
Pavel Yusenko (Unknown | in-person)

I. **OPENING REMARKS**

- Acting Chair W. Kroll opened the meeting at 5:30 PM and informed the public of the Commission’s meeting procedures for reviewing applications.

II. **ROLL CALL**

- Acting Chair W. Kroll proceeded with the evening’s roll call:

COMMISSIONER	ATTENDANCE
<i>Chair Alfonso Nardi</i>	<i>Absent</i>
<i>Vice Chair Walter Kroll</i>	<i>Present – In-Person</i>
<i>Kevin Coffee</i>	<i>Present – In-Person</i>
<i>Judi Crowell</i>	<i>Present – In-Person</i>
<i>Vana Nespor</i>	<i>Present – In-Person</i>
<i>Vincent Walsh</i>	<i>Present – In-Person</i>
<i>Marisa Zorzi</i>	<i>Present – In-Person</i>

III. **ACCEPTANCE OF MINUTES – DECEMBER 4, 2025**

MOTION TO APPROVE THE MINUTES OF DECEMBER 4, 2025	
CHAIR ALFONSO NARDI	ABSENT
VICE CHAIR WALTER KROLL	YAY
KEVIN COFFEE	YAY
JUDI CROWELL	SECONDED - YAY
VANA NESPOR	YAY
VINCENT WALSH	MOTION – YAY
MARISA ZORZI	YAY

- Commissioner V. Walsh made a motion to accept the Commission’s meeting minutes of December 4, 2025. The motion was seconded by Commissioner J. Crowell. With no discussion on the motion, it was approved unanimously.

IV. **OTHER MATTERS PROPERLY BEFORE THE COMMISSION – LETTER OF SUPPORT – REHABILITATION PROJECT (113 STATE STREET, 1139-1155 MAIN STREET, 1163 MAIN STREET, 11-21 STOCKBRIDGE STREET)**

- Carol Dooney from McCaffery was before the Commission seeking a Letter of Support for their application to the Massachusetts Historical Commission for the purpose of attaining tax credits for their project at 113 State Street, 1139-1155 Main Street, 1163 Main Street, and 11-21 Stockbridge Street.
- C. Dooney advised that they had presented the subject project to the Commission about a month ago, and that they are currently in the process of getting Part 2 approval from the National Parks’ Service – hopefully by April. Once the District is expanded, the entire project will be in the National Register District. McCaffery is now looking for a Letter of Support for their application to the Massachusetts Historical Commission for tax credits.
- C. Dooney provided an overview of the entire project – advising that there will be first-floor commercial storefront and upper-level residential units. The clock on the

Clocktower building has been restored. The entrance to both buildings will be along Stockbridge Street.

- Commissioner V. Walsh made a motion to issue a Letter of Support. The motion was seconded by Commissioner M. Zorzi and approved unanimously after no discussion.

V. CONTINUED PUBLIC HEARING – 102 THOMPSON STREET

MOTION TO CONTINUE TO JANUARY 15, 2026	
CHAIR ALFONSO NARDI	ABSENT
VICE CHAIR WALTER KROLL	YAY
KEVIN COFFEE	SECONDED – YAY
JUDI CROWELL	YAY
VANA NESPOR	YAY
VINCENT WALSH	YAY
MARISA ZORZI	MOTION – YAY

- Ziyad Jaraad was before the Commission to present the application to the Commission. He had informed Staff Member A. Strniste before the meeting about wanting to be continued to January 15, 2026. Z. Jaraad was able to contact Khalid al Janabi for the purposes of translating over the phone.
- Acting Chair W. Kroll informed Z. Jaraad and K. al Janabi that while the materials are important to the application, understanding what the end product will look like is just as important, that a drawing or sketch can be submitted.
- K. al Janabi informed the Commission that Z. Jaraad had already purchased the materials; Commissioner V. Nespor reinforced the idea that the Commission needs to understand what the end product will look like.
- Commissioner J. Crowell advised that Staff Member A. Strniste will follow-up with K. al Janabi with information of what is required, as well as providing examples they can reference for their application.
- Commissioner M. Zorzi made a motion to continue the hearing to the January 5, 2026 meeting agenda. Commissioner K. Coffee seconded the motion. With no discussion on the motion, it was approved unanimously.

VI. CONTINUED HEARING – 47 WESTMINSTER STREET

MOTION TO APPROVE THE AMENDMENT DECK PROPOSED AT 47 WESTMINSTER STREET	
CHAIR ALFONSO NARDI	ABSENT
VICE CHAIR WALTER KROLL	YAY
KEVIN COFFEE	YAY
JUDI CROWELL	SECONDED – YAY
VANA NESPOR	YAY
VINCENT WALSH	MOTION – YAY
MARISA ZORZI	YAY

- Ronaldo Meono and Ovidia Catalina Lopez-Macario were back before the Commission to present the updated proposed plan. Siervo Jimenez, from 80 Cornell Street, was on the phone to discuss the project on behalf the Petitioners.
- S. Jimenez advised that the plans were updated to conform with the comments made at the last meeting. Acting Chair W. Kroll confirmed that they received the updated plans; Commissioner V. Walsh opined that the plans were acceptable and addressed the concerns of Commission. The proposed reconfigured porch will be minimally visible from the public right-of-way. Commissioner J. Crowell agreed.
- Acting Chair W. Kroll inquired about the rail tops and spindles; S. Jimenez confirmed that they will look similar to what is existing now.
- With no public comment submitted by those in attendance, Acting Chair W. Kroll acknowledged that the public comment submitted by J. Boone was already read into the record.
- Commissioner V. Walsh made a motion to accept the application at 47 Westminster Street with the revised plans. The motion was seconded by Commissioner J. Crowell. With no further discussion, the motion was approved unanimously.

VII. CONTINUED PUBLIC HEARING – 79 THOMPSON STREET

MOTION TO ACCEPT THE SOLAR PROJECT AT 79 THOMPSON STREET	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>NAY</i>
KEVIN COFFEE	<i>NAY</i>
JUDI CROWELL	<i>SECONDED – NAY</i>
VANA NESPOR	<i>NAY</i>
VINCENT WALSH	<i>MOTION – NAY</i>
MARISA ZORZI	<i>NAY</i>

- The Petitioner and/or a representative failed to attend the evening’s hearing. With the application set to expire, Commissioner V. Walsh made a motion to accept the application as presented. Commissioner J. Crowell seconded the motion. With no discussion on the motion, it was denied unanimously.

VIII. NEW PUBLIC HEARING – 280 WASHINGTON BOULEVARD

MOTION TO APPROVE THE FENCE AT 280 WASHINGTON BOULEVARD	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>NAY</i>
VANA NESPOR	<i>SECONDED – YAY</i>
VINCENT WALSH	<i>MOTION – YAY</i>
MARISA ZORZI	<i>YAY</i>

- Marc Prince, the landowner at 280 Washington Boulevard, was before the Commission to present the application relating to the installation of a fence between the side building foundation line and the Pineywood Avenue right-of-way.

- M. Prince informed the Commission that he had been living at the property for 30 years and has struggled to maintain the tree line along Pineywoods Avenue, and that he is seeking to remove the vegetation and install a fence. While he would like to plant new shrubbery, he opined that he would not be at the property long enough to enjoy the new plantings. In observing the surrounding neighborhood, he identified examples where there are fences between the foundation line and the right-of-way. The fence he is proposing is not obtrusive; that the zoning regulations had changed to allow fences in side yards, and now needed approval from the Commission.
- Commissioner V. Walsh advised that he would not have an issue with the fence it was proposed at the foundation line; M. Prince responded that by doing so, the amount of usable yard would be reduced by 12 feet. M. Prince then referred to the underlying guidelines for the District and noted that in some cases, the guidelines allow the Commission to approve fences between the foundation line and public way. M. Prince advised that he was looking to install the fence where the existing trees were located at the sidewalk.
- A discussion about the location of the old fence ensued. Commissioner V. Walsh advised that the local historic districts contain the fence provision to ensure uniformity along the road. Discussion ensued about how far the detached garage is from Pineywoods Avenue.
- Commissioner K. Coffee confirmed with the Petitioner that he was not looking to cede any usable land; M. Prince advised that he was trying to get back the land lost by the lush vegetation. Commissioner V. Walsh opined that he did not see a compelling reason for allowing the fence as proposed. M. Prince asked if he could replace the existing trees; the Commission responded in the affirmative.
- Commissioner J. Crowell opined that she understood M. Prince perspective about wanting privacy and gaining backyard space.
- Acting Chair W. Kroll vocalized concern about setting a precedent should they allow the fence. M. Prince advised that he is not looking to install a fence if required at the foundation line and would like plant instead. He then advised that he would be willing to amend the application so that the Commission could vote to approve the fence if installed along foundation line and that he could later choose how to proceed.
- Jack Hunter, from 292 Washington Boulevard, whom lives across the street from the Petitioner, informed the Commission that he did not mind the fence and wished that the Commission did not make up their mind before hearing from the neighbors.
- Ms. Hunter, also from 292 Washington Boulevard, opined that there were plenty of fences in the neighborhood at the public right-of-way line and that she was in favor of the application.
- Harry Seymour, from 68 Washington Road, advised that he was not against the application, but that he finds bushes more appealing than fences.
- Commissioner V. Walsh advised that part of the Commission's charge is to maintain historic accuracy, which unfortunately conflicts with other aspects of development.
- Commissioner V. Walsh made a motion to accept the application at 280 Washington Boulevard to install the six-foot wood fence along the foundation line to the garage. The motion was seconded by Commissioner V. Nespor. With no discussion on the motion, it was approved five (5) to one (1), with Commissioner J. Crowell casting the dissenting vote.

IX. **NEW PUBLIC HEARING – 40 INGERSOLL GROVE**

MOTION TO APPROVE THE SOLAR PROJECT AT 40 INGERSOLL GROVE	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>YAY</i>
VINCENT WALSH	<i>SECONDED – YAY</i>
MARISA ZORZI	<i>MOTION – YAY</i>

- Chantel Croteau and Joseph Vasquez were before the Commission to discuss the solar power project at 40 Ingersoll Grove.
- C. Croteau advised that the panels will be placed on four of the roofs; however, only six of the panels would be visible. The equipment will be placed at the back right side of the building. The conduit will run directly into the attic.
- Commissioner M. Zorzi inquired as to whether the utility meter will be at the front of the building; C. Croteau responded that it could be placed towards the rear of the building if preferrable.
- Commissioner V. Nespors confirmed with the representatives that the electric meter is currently in the basement, and then inquired as to whether the panels on Roof A could be relocated to Roof D. C. Croteau informed the Commission that they could likely get the design team to move the panels to the back driveway side.
- When asked if a new roof would be required, C. Croteau confirmed that initially, a new roof was required, but subsequently discovered that one was not actually needed.
- Commissioner V. Walsh sought clarification as to where the conduit was located; C. Croteau confirmed that the conduit would be located inside, but any outside conduit could be painted to match the surface it is affixed to.
- Harry Seymour, from 68 Washington Road, vocalized his support for the project with the corrections provided.
- Acting Chair W. Kroll read written public comment submitted by Jennifer Rao into the record and advised that all of the concerns raised were addressed.
- Commissioner M. Zorzi made a motion to accept the project with the utility meter moved towards the back of the building and with the panels located on Roof A to be moved to the left side of Roof D. The motion was seconded by Commissioner V. Walsh. With no further discussion, the motion was approved unanimously. Acting Chair W. Kroll advised that should there be any changes, they need to come back for additional approval.

X. **CONTINUED PUBLIC HEARING – 92 MARENGO PARK**

MOTION TO CONTINUE THE APPLICATION TO JANUARY 15, 2026	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>

KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>SECONDED – YAY</i>
VANA NESPOR	<i>YAY</i>
VINCENT WALSH	<i>MOTION – YAY</i>
MARISA ZORZI	<i>YAY</i>

- The Petitioner and/or a representative failed to attend the evening’s hearing. Commissioner V. Walsh made a motion to continue the application to the January 15, 2026 meeting agenda. Commissioner J. Crowell seconded the motion. With no discussion on the motion, it was approved unanimously.

XI. NEW PUBLIC HEARING – 30 SPRUCELAND AVENUE

MOTION TO APPROVE THE SOLAR PROJECT AT 30 SPRUCELAND AVENUE	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>MOTION – YAY</i>
VANA NESPOR	<i>SECONDED – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>YAY</i>

- Lauren Hirth from 22 Mulberry Street in Worcester, Massachusetts, was before the Commission on behalf of the landowner/Petitioner to discuss the solar project at 30 Spruceland Avenue.
- L. Hirth advised that there would be 32 panels installed on the building’s roof. Commissioner J. Crowell confirmed with L. Hirth that many of the panels can be seen from the street. Commissioner V. Walsh advised that based on the proposal, there would be no way to lessen the impact of the panels.
- Commissioner J. Crowell asked if there was a detached garage on the property; L. Hirth had initially advised no; however, internet resources showed that a detached garage did exist.
- Commissioner V. Walsh inquired as to why there were so many panels proposed; L. Hirth advised that this was the greatest number of panels that could produce the most electricity and still comply with the housing code.
- Acting Chair W. Kroll advised that generally the Commission looks for minimal visibility. Commissioner J. Crowell asked if any of the panels can be put on the garage. L. Hirth advised that she could take the request back to the sales team; that the conduit would need to be trenched.
- Acting Chair W. Kroll asked if the utility meter would be located on the front of the building; L. Hirth responded in the affirmative. Commissioner V. Walsh advised that in the past, some of the equipment could be separated and located to another area of the building.
- Commissioner M. Zorzi confirmed with L. Hirth that the conduit was proposed to be put on the front of the building; Commissioner M. Zorzi opined that the conduit being placed on the back would be better. Commissioner V. Walsh opined that any conduit on the roof would be better in the attic.

- Acting Chair W. Kroll recommended that the hearing be continued. L. Hirth confirmed that the proposed recommended changes included: relocating as many panels from the primary building’s roof onto the garage; moving the shut-off switches and utility equipment as far back on the building as possible; ensuring that the conduit cannot be seen and run in the attic; and any visible conduit being painted to match the surface it is affixed to.
- Commissioner J. Crowell made a motion to continue the hearing to the next meeting agenda – January 15, 2026. The motion was seconded by Commissioner V. Nespor and approved unanimously after no discussion.

XII. NEW PUBLIC HEARING – 49 FLORENTINE GARDENS

MOTION TO APPROVE THE WINDOW PROJECT AT 49 FLORENTINE GARDENS	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>NAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>MOTION – YAY</i>
VINCENT WALSH	<i>SECONDED – YAY</i>
MARISA ZORZI	<i>YAY</i>

- Sam Stonefield, from 336 Reeds Landing, was before the Commission to present the project on his son’s and daughter-in-law’s behalf. The proposed project involved the removal and replacement of the existing wooden windows.
- S. Stonefield informed the Commission that the impetus of the application stemmed from a positive lead test during inspection, which was part of the closing Process – that S. Stonefield and his wife are selling the house to his son and daughter-in-law. S. Stonefield and his wife had lived in the house for 47 years and had received an award from the Springfield Preservation Trust. As they are moving into their retirement years, they moved to Reed’s Landing and are looking to sell the house to his son and daughter-in-law. During the inspection, a vast number of windows and doors tested positive for lead; rather than ignore the problem, his son and daughter-in-law want to address and remove the lead. As a result, 33 windows and 21 doors will need to be de-leaded – an extensive and expensive process. They have contracted Robin Jones, who was referenced by Tom Belton. If approval is attained, they plan to start on January 3, be done by March, and his son and daughter-in-law would move in by April.
- When inquiring as to whether the windows can be de-leaded and restored, S. Stonefield advised that the windows would fall apart during the process. As a result, they are proposing Vinyl Max windows – originally intending a four-over-one grid pattern; however, now proposing a Georgian style grid pattern, to be affixed to the exterior of the window. The diamond style grid pattern was not offered as an option.
- S. Stonefield then informed the Commission that they had discussed the application with the neighbors and that everyone had support the proposal, with letters of support and a petition of support submitted into the record.
- Commissioner V. Walsh opined about the existing windows and the details, specifically inquiring as to the number of windows with the diamond-shaped grids;

S. Stonefield responded that 12-14 windows contain that grid pattern. Commissioner V. Walsh then advised that contractors will often say they are unable to restore the window and that they should be thrown away, and then asked about the conditions of the windows. S. Stonefield responded that the conditions vary; the west side of the house have windows in worst shape due weathering. He then reiterated that de-leading the windows will ruin the windows, specifically the trim of the window.

- Acting Chair W. Kroll advised that the airborne particles or chips are what makes lead paint so dangerous; that the window in its entirety would need to be treated, not just painted over.
- Commissioner K. Coffee advised that the grid pattern was part of the character of the building and that replacing the wooden windows with vinyl windows seems unfortunate, especially on the front side of the building, which is part of the exuberance of the period. Eliminating the windows makes the building a little less special. S. Stonefield agreed and advised that the implications of denying the project would inhibit a young family from moving to Springfield, and at some point, these situations will need to be addressed.
- Commissioner V. Nespor asked if there was any way to retain the diamond grid pattern on the front of the house; in addition to advising that the glass could be kept. S. Stonefield advised that he did not know if they could be kept. Commissioner V. Walsh echoed Commissioner V. Nespor's sentiment about protecting the front windows. He then advised that windows in the past have been de-leaded and suggested restoring them even if just the front windows.
- Alison Stonefield, from 336 Reed's Landing, asked at what price does the Commission require historic features to be maintained, specifically relating to this project. Commissioner V. Walsh advised that the Commission is charged with looking at the historic details of the building; that different requests are made for different projects.
- Kamileh Crocco from 21 Mountainview Street spoke in favor of the application noting that she had three small children and maintenance of these houses are expensive.
- Jack Hunter from 292 Washington Boulevard spoke in support of the application, noting that there were limited options and that allowing the replacement of the windows would bring a young familiar to Springfield.
- The attendee from 36 Westernview Street vocalized support for the project.
- William Stonefield from 77 Adams Street advised that they were committed to being good stewards of the property and hoping to have a safe place for their children to grow up.
- Johanna Hodges spook in favor of the project and echoed the sentiment of those in attendance.
- Acting Chair W. Kroll read the submitted Letters of Support into the record.
- Commissioner V. Nespor inquired about the doors that were mentioned during the hearing; S. Stonefield advised that the doors at issue were interior and that no exterior doors visible from the public way are being altered in any way. Commissioner V. Nespor then confirmed with S. Stonefield that their position is that the windows would disintegrate when de-leaded.

- Acting Chair W. Kroll advised that this was a situation where everyone is right, and that in a Historic District, these decisions are not easy; thus, the Commission makes an effort to explore if compromises can be made.
- Commissioner V. Nespor made a motion to accept the application as presented. Commissioner V. Walsh seconded the motion. With no discussion on the motion, it was approved five (5) to one (1) with Commissioner K. Coffee casting the dissenting vote.

XIII. NEW PUBLIC HEARING – 21 MOUNTAINVIEW STREET

MOTION TO CONTINUE TO THE JANUARY 15, 2026 MEETING	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>SECONDED – YAY</i>
VINCENT WALSH	<i>MOTION – YAY</i>
MARISA ZORZI	<i>YAY</i>

- Pavel Yusenko was before the Commission to present the application to the Commission. Prior to commencing with the hearing, Staff Member A. Strniste provided an overview as to the application history – that the application was the result of two violations that were issued earlier in the fall, noting that approval was never obtained for the window replacement, door replacement, or foundation modifications.
- Commissioner V. Walsh asked if the work had been done without permits from the Building Department and then opined that he would not have approved the windows had they come before the Commission prior to being installed.
- Commissioner M. Zorzi informed the Commission of the differences between the currently installed windows versus what was there previously by comparing and contrasting the different Google Street View images.
- The Commission explored the differences between the existing door and what previously existed.
- Acting Chair W. Kroll advised that there were clear violations with no current plan to make the building compliant or anyone present that was authorized to discuss proposed changes.
- Staff Member A. Strniste advised that he would inquire with the Building Department as to whether any permits were pulled. Commissioner K. Coffee asked what the action plan would be if there were no Building Permits obtained.
- Commissioner V. Walsh made a motion to continue the application to the January 15, 2026 meeting agenda. The motion was seconded by Commissioner V. Nespor. Public comment will be taken at the next meeting. The motion was approved unanimously.

XIV. ENVIRONMENTAL REVIEW – 22 SALEM STREET

MOTION TO APPROVE THE ROOF VENT PROJECT AT 22 SALEM STREET

CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>YAY</i>
VINCENT WALSH	<i>MOTION – YAY</i>
MARISA ZORZI	<i>SECONDED – YAY</i>

- Daniel Diaz from 146 Garland Street was before the Commission to discuss the proposed roof vent project at 22 Salem Street. Staff Member A. Strniste advised that prior to the meeting, he had learned that there was a Preservation Restriction on the property, which he had included in the evening’s hearing packet.
- D. Diaz advised that he was the project manager for the project – that MassSave recommended a lot of work, including adding ventilation to the attic, which current has no ventilation. The proposal involves installing a ridge vent with matching shingles.
- Commissioner V. Walsh and Commissioner M. Zorzi confirmed that the roof contained existing asphalt shingles. D. Diaz advised that the vent would be the length of entire ridge.
- Harry Seymour from 68 Washington Road vocalized his support for the project.
- Commissioner V. Walsh made a motion to find that there would be no adverse impact caused by the installation of the ridge vent with matching asphalt shingles to cover on the building. The motion was seconded by Commissioner M. Zorzi. With no discussion on the motion, it was approved unanimously.

XV. PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS – 52 BAY STREET

MOTION TO CONTINUE TO FEBRUARY 5, 2026 MEETING	
CHAIR ALFONSO NARDI	<i>ABSENT</i>
VICE CHAIR WALTER KROLL	<i>YAY</i>
KEVIN COFFEE	<i>YAY</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>YAY</i>
VINCENT WALSH	<i>SECONDED – YAY</i>
MARISA ZORZI	<i>MOTION – YAY</i>

- Sam Scoppettone from Wayfinders was before the Commission to present the application relating to demolishing the building at 52 Bay Street.
- S. Scoppettone advised that they were requesting the demolition of 52 Bay Street as part of the City of Homes Initiative. He provided an overview of other similar projects under the program, stating that the goal is to help stabilize and/or rehabilitate properties, or tear down and build anew to sell to first time home buyers. He then cited for code enforcement violations and that the City asked for a special receivership of this particular property to contract and acquire.

- Acting Chair W. Kroll confirmed that the building subject to the application was the rear building – the carriage house. S. Scoppettone informed that the Commission that based on the condition of the building, it is not functionally feasibly to repair it.
- Commissioner K. Coffee asked what the condition of 56 Bay Street was; S. Scoppettone informed that the Commission that he was unaware.
- Commissioner M. Zorzi asked if a structural test on 52 Bay Street was performed; S. Scoppettone advised that he did not believe so.
- Harry Seymour from 68 Washington Road opined that he agreed with Jim Boone’s submitted public comment; however, when he saw the pictures he understood why they were seeking to demolish the building.
- Kira Holmes, representing the Springfield Preservation Trust, vocalized their opposition to the demolition project, informing the Commission that the building was from the 1870’s, and if “we” were to lose the building, it would be lost forever.
- Acting Chair W. Kroll read the submitted written public comment into the record.
- S. Scoppettone advised that they were proposing to demolish a housing unit; however, trying to create a housing unit by renovating the building at 56 Bay Street, which is currently vacant. He also opined that having three units in two buildings on one lot is hard to market, as the arrangement would not be attractive to homeowners. In addition, this would prevent money from going into the neighborhood. S. Scoppettone advised that with enough money, anything can be done. Acting Chair W. Kroll advised that they have seen houses like this be renovated, and that he is working on one that is worse condition than what is shown. There are possibilities to rehabilitate.
- Commissioner J. Crowell advised that she lived across the street from a house that was similar to this one for 10 years and the house is beautiful now – that it can be done.
- Commissioner V. Walsh confirmed with S. Scoppettone that no engineering had been performed. That property is unique. He opined that without any engineering, he has not seen anything that necessitates waiving the nine-month delay period.
- Commissioner M. Zorzi advised that the delay allows time for someone to look into seeing if the building to be restored.
- S. Scoppettone then advised that there were some deadlines that they need to meet in order to attain funding opportunities, and if they are unable to demolish the building, they could potentially lose out on \$400,000 needed for the building at 56 Bay Street. He also advised that they have discussed the project with the Massachusetts Historical Commission.
- Commissioner M. Zorzi made a motion to grant a 60-day extension and continue the hearing to February 2026. The motion was seconded by Commissioner V. Walsh. A discussion ensued as to what the implications would be if foundation issues were discovered. The motion was approved unanimously.

XVI. **SECTION 106 REVIEW – RAILROAD TRACK ALONG THE CONNECTICUT RIVER AND GRIDIRON STREET, LYMAN STREET, TAYLOR STREET**

MOTION TO APPROVE THE AMTRAK SECTION 106 SUBMISSION	
CHAIR ALFONSO NARDI	ABSENT

<i>VICE CHAIR WALTER KROLL</i>	<i>YAY</i>
<i>KEVIN COFFEE</i>	<i>YAY</i>
<i>JUDI CROWELL</i>	<i>YAY</i>
<i>VANA NESPOR</i>	<i>MOTION – YAY</i>
<i>VINCENT WALSH</i>	<i>YAY</i>
<i>MARISA ZORZI</i>	<i>YAY</i>

- John Weston and Scott Conti were before the Commission to present the Section 106 Review request relating to improvements along the railroad.
- J. Weston advised that they are seeking to make improvements to accommodate the growth on the rail line. Improvements will be made on the tracks themselves, as well as in the surrounding area. Work to the rail line going both east-to-west and north-to-south will occur. Retaining walls will be constructed east of Armory Street. In addition, restoration will occur at the railyard at Taylor Street and Armory Street. The bridge that traverses Chestnut Street will either be rebuilt or a parallel bridge will be added. The old tower building under the I-91 viaduct will be demolished, as it has not been used in a long time. This building was proposed to be demolished awhile back, but the money was not there to demolish at that time. Mass Historic has advised that the building does not maintain its historic significance anymore.
- Commissioner J. Crowell inquired as to what lines were receiving improvements. J. Weston advised accordingly and informed the Commission that the track will be reconfigured; the change will be fairly minimal; however, the goal is to separate the freight trains from the passenger trains.
- Acting Chair W. Kroll inquired about the Gasoline Alley and the McKnight Neighborhood – specifically inquiring about the work to be performed there. A retaining wall is proposed, which is to be as tall as 20 feet. J. Weston confirmed that the only thing that will likely be seen is the top of the trains. An archeological survey will be performed as the next step to see if there are any significant resources that need to be considered prior to commencing with the project.
- Commissioner V. Nespore made a motion to find that the proposed project, as presented in the submitted materials and during the evening’s meeting, will not be detrimental to the buildings and surrounding area, and that the project will have no adverse impact. With no discussion, the motion was approved unanimously.

XVII. *OTHER MATTERS PROPERLY BEFORE THE COMMISSION – ADMINISTRATIVE UPDATES*

- Given the time, Staff Member A. Strniste informed the Commission to refer to the Hearing Overview document for the administrative updates.

XVIII. *OTHER MATTERS PROPERLY BEFORE THE COMMISSION – CORRESPONDENCE TO THE COMMISSION*

- No correspondence was submitted to present to the Commission.

XIX. *OTHER MATTERS PROPERLY BEFORE THE COMMISSION – QUORUM CALL*

- Commissioners V. Walsh will be present remotely at the next meeting. Commissioner V. Nespore will be unavailable. The other attending Commissioners will be present.

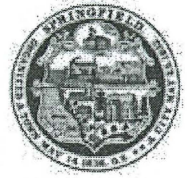
I. ***OTHER MATTERS PROPERLY BEFORE THE COMMISSION – PUBLIC SPEAK OUT***

- No members of the public were in attendance to provide public comment.
- Commissioner K. Coffee made a motion to adjourn. The motion was approved unanimously. The Commission adjourned at 8:33 PM.

DRAFT



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS:

102 Thompson St. Springfield, MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY

LOCAL HISTORIC DISTRICT:

McKnight

DECISION:

DATE RECEIVED:

June 30, 2025

DECISION DATE:

HEARING DATE:

July 17, 2025

DATE DISCUSSED (NO HEARING):

DATE NOTICE POSTED:

July 3, 2025

WAIVED BY COMMISSION:

DATE NOTICE MAILED:

July 3, 2025

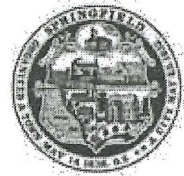
WAIVED BY ABUTTERS:

Hello, how are you? I would like you to postpone the appointment for 45 days. I will go to California because I have circumstances. I will inform you of the appointment. Thank you for your understanding.

م 4:35



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION INFORMATION

PROPERTY ADDRESS: 102 Thompson Street

1. WHAT DOES HISTORIC STATUS MEAN?

Properties within a Local Historic District are architecturally protected by the Springfield Historical Commission. Any exterior architectural feature that is visible from the public street or park is protected. Therefore, prior to any exterior change, approval by the Springfield Historical Commission must be obtained.

2. WHAT IS THE PROCESS FOR OBTAINING APPROVAL BY THE SPRINGFIELD HISTORICAL COMMISSION?

- a. To determine if the Springfield Historical Commission must review an application, contact the City's Office of Planning & Economic Development at (413) 787-6020 and ask for the Staff member who oversees the Historical Commission. The Staff Member will determine if review is required.
- b. If the proposed project is subject to review, an "Application for a Certificate" must be submitted prior to the commencement of any project.
- c. Fill out the attached application and submit it to the City's Office of Planning & Economic Development along with any supporting information (as requested in this application).
- d. Upon receipt of a complete application (the application itself and the necessary supporting documents), Staff will schedule a public hearing with the Springfield Historical Commission to discuss the proposed project. Notice of the public hearing will be sent by mail to the abutting neighbors at least fourteen (14) days in advance of the hearing. For most applications, the Commission has sixty (60) days from receipt of the application to render a decision. Failure to issue a decision within the requisite time period will result in the application being automatically granted.

3. WHAT INFORMATION IS REQUIRED TO ENSURE THE APPLICATION IS COMPLETE?

- a. The address of the property subject to the application shall be clearly provided;
- b. The name of the property owner;
- c. The address of the property owner (if different);
- d. The type of application being requested (see Page 1)
- e. A written description of the project and the relevant section of this application completed.

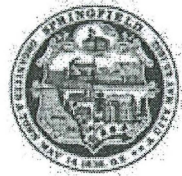
Note: Incomplete applications will not be processed by the Office of Planning & Economic Development.

4. WHAT OTHER INFORMATION IS REQUIRED FOR AN APPLICATION?

- a. Drawings for alterations and/or additions to existing structures, or for new constructions. Drawings shall be plans or elevations drawn to scale with sufficient details to show the architectural design of buildings, including proposed materials, textures and colors. Sample of materials or colors, and the plot plan or site layout, indicating all improvements affecting appearances such as walls, walks, terraces, plantings, accessory buildings, signs, lights and other elements, shall also be included.
- b. Photographs required with application to demolish existing structures. Applicant shall submit photographs showing all sides of the property and contiguous properties on either side and across the street.
- c. Photographs required with applications for new construction. Applicant shall submit photographs of adjoining properties on either side and across the street.
- d. Photographs required with application for repair, alterations, and/or additions to existing structures. Applicant shall submit photographs of all sides of the structure to be affected by proposed action.
- e. Sample of materials and designs (e.g. brochures, specification sheets, physical samples, etc.)
- f. If applying under for a Certificate of Hardship, the applicant shall submit sufficient materials to support the hardship claim. Photographs, financial records, and health records are some suggested supporting materials.
- g. Requests for demolition under a Certificate of Hardship must be accompanied by a contract line item estimate for demolition and a contractor line item estimate for rehabilitation.



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 102 Thompson Street

APPLICATION TYPE (Select Application Type)

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 102 Thompson St, Springfield, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Zaitoun MHD Munir		
OWNER ADDRESS: <input type="checkbox"/> Check box if same as property address 30 Massachusetts St, Springfield, MA 01107		
OWNER PHONE NUMBER: 413-316-4793	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS:	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE:	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): See Attached CRB-7/2/2023		PROPOSED MODIFICATIONS (Please check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input checked="" type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input checked="" type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

PROPERTY OWNER'S SIGNATURE

6/28/2023
DATE

OTHER PROJECTS

EXISTING CONDITIONS/DESCRIPTION

The Old Porch Balustrades was Broken that cannot protect anyone who is trying to touch them, also cannot be safe if there is a windstorm.

The old Deck Board was Broken^{totally} as well.
Please Note: the First Floor Deck^{Balustrades} and The second Floor Balustrades, Deck been fixed.

PROPOSED CONDITIONS/DESCRIPTION

The New Porch has a New Balustrades and Deck Board. It has Brown Deck Board and Brown Balustrades as well in the first floor and the second floor. Both Porches Balustrades and Deck Boards been tighten using strong Bolts attach to the Deck posts. First and second Floor Porches is in Really New condition and safe to be ~~off~~^{on}. Materials are the same old Porches materials

**102 THOMPSON ST
SPRINGFIELD, MA 01109
#1 PORCH FIRST FLOOR
#2 PORCH SECOND FLOOR**

**I FOUND THE BALUSTERS AND THE DECK BOARD BROKEN ON THE
FIRST FLOOR PORCH AND IN THE SECOND FLOOR LITTLE PORCH, ALSO NOT SAFE
TO STAND ON BOTH BOARDS THAT CAN CAUSE SOMEONE INJURES SO THAT LEAD
ME TO REPLACE THE DECK BOARDS TO #2 PRIME PRESSURE-TREATED GROUND
CONTACT SOUTHERN PINE LUMBER WAS BOUGHT FROM HOME DEPOT AND
REPLACE THE BALUSTERS TO PRESSURE-TREATED SOUTHERN YELLOW PINE WOOD
SQUARE END BALUSTERS WAS BOUGHT FROM HOME DEPOT AS WELL.**

Jim Boone
97 Florida St
McKnight

July 14, 2025

Historic Commission

Re: 102 Thompson St

Dear Commissioners

This house has undergone significant changes by the owner of record who is Ziyad Jarod. He purchased property 11/30/23. He was sent a letter telling him it was in a Historic District. (attached) The realtor who had listed the property was told of the Historic District rules in letter of 7/21/23 (attached)

Google Street View of June 2024 shows that changes had not been made. Assessors records say property was a "transfer of convenience" to Zaitoun Munir on 3/19/24. Registry of deeds does not record this transfer so owner is legally Ziyad Jarod. Changes were made after this "transfer"

The change of the front porch railings on first and second floor are totally inappropriate to the house, The change to the door on the second floor is improper and neither were done with permission of the Commission. The decorative shingles on the second floor porch were covered with asphalt shingles, again not approved. Asphalt should be removed and shingles restored.

These four changes must be restored back to the way they were when purchased and are original to the house. Porch railings can be same height as originals as it is in Historic District. Leaving these changes as they are is a detriment to the District and counter to all of its rules.

These changes were reported to the Commission October 19, 2024.

Thank you for your attention to this matter.

Jim Boone

July 21, 2023

Becky Thompson

Caldwell Banker

136 Dwight Rd Longmeadow, Ma 01106

Dear Becky

Re: Listing at 102 Thompson St Springfield

Congratulations on your listing in the McKnight Historic District in Springfield Ma. This is a wonderful neighborhood where everyone takes great pride in their properties. I think you will find a lot of interest in the property.

As the house is in a Local Historic District, it is subject to the rules set forth by the City and administered by the Springfield Historical Commission. This means any work done to the exterior, including windows and doors porches, must have the approval of the Historical Commission.

As this house is priced in a way that will attract Flippers, it is especially important that they understand rules of the Hisotric District.

As this is a benefit to the property it is also a restriction and thus must be disclosed to all potential buyers.

In full disclose of property restrictions, your listing should disclose this so that all potential buyers are informed. By having this in your listing, all Realtors showing the property are duly informed also.

The rules of the McKnight Historic District can be found on the City of Springfield's Planning Department website. [Microsoft Word - MCKNIGHT-rev_Dec_07.doc \(springfield-ma.gov\)](#) Map of the Local Historic District [ArcView Print Job \(springfield-ma.gov\)](#)

Thank you for your work in promoting this wonderful neighborhood.

Your listing was built in 1885 in the Queen Anne/Stick Style and is listed on the National Register of Historic Places

Jim Boone

97 Florida St

McKnight

jimboone@hotmail.com

Dec 1, 2023
Ziyad Issa Jarad
102 Thompson St
Springfield, Ma 01109

Welcome to the McKnight Historic District and our wonderful neighborhood. We hope you will enjoy it as much as we have over the past 47 years.

Your Single Family home was built in 1885 and its first owner was named Andrew Titus. It is Queen Anne/Stick Style architecture. You are located in the McKnight Historic District. The Realtor listing this property had been notified as you can see by the attached letter.

A reminder that all work to the house requires Building Permits.

Any change to the exterior of the house, including siding, windows and doors must be approved by the Historical Commission.

You can see an picture of your home in 1939 at springfieldpreservation.org Resources, WPA and go to Thompson Street

You have wonderful neighbors all around you, hope you enjoy McKnight.

Welcome

Jim and Merry Boone
97 Florida St.





تم

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الإنجليزية

العربية



البحث في محتوى هذه الشاشة









70 Tapley Street
Springfield
Massachusetts
01104

STOP WORK ORDER

5/20/2025

Zaitoun MHD Munir
30 Massasoit Street
Springfield, MA 01107

Dear Zaitoun MHD Munir:

The Springfield Historical Commission has recently become aware of the, and has reason to believe that there has been an, **unauthorized replacement of porch railings and a second-floor door** that have been installed on your property at **102 Thompson Street**. Your property is located within the McKnight Local Historic District, and any proposed work to the exterior of the building is not allowed without the approval of the Commission. Once the Commission has granted approval, any exterior modifications and renovations can be completed after getting any other necessary building permits.

Enclosed is a copy of the McKnight Local Historic District guidelines and an application and application instruction sheet. Please fill out the application completely, attaching the appropriate information (pictures, sample materials, site map, etc.) and return all materials to the address below. The next available Springfield Historical Commission meeting is **Thursday, June 26, 2025 at 5:30pm** and the application needs to be submitted two weeks in advance of the meeting (**by Wednesday, June 11, 2025 at 4:30pm**). If you cannot make this meeting, please contact me for future meeting dates. However, your work cannot continue until you receive the approval from the Commission.

If you do not comply, the Commission will be forced to take further action. In addition, the Building Department has been notified of the work that is occurring to determine if permitting is required on their end.

If you have any questions, please feel free to contact me at (413) 787-6525.

Sincerely,

Andrew Strniste
Director of Community Planning

Return Address:
Springfield Historical Commission
70 Tapley Street
Springfield, MA 01104

cc: file, Springfield Law Department, Springfield Building Department





04/09/2025 12:26



04/09/2025 12:27



04/09/2025 12:27

115250062
ARROYO SERGIO
103 THOMPSON ST
SPRINGFIELD, MA 01109

115250020
BENERAKIS MELISSA L
94 THOMPSON ST
SPRINGFIELD, MA 01109

115250023
CRAWFORD PARKINSON
7407 SUNSET BEND LANE
RICHMOND, TX 77407

052200078
FIGUEROA SARIANN
41 FLORIDA ST
SPRINGFIELD, MA 01109

115250063
HARVEY CAROL J
97 THOMPSON ST
SPRINGFIELD, MA 01109

052200079
MCMULLEN KEISHA J & INDIA
35 FLORIDA ST
SPRINGFIELD, MA 01109

115250061
RBT ENTERPRISE LLC
268 COLD SPRING AVE STE B
WEST SPRINGFIELD, MA 01089

115250022
ZAITOUN MHD MUNIR
30 MASSASOIT ST
SPRINGFIELD, MA 01107



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 92 Marengo Park, Springfield, Massachusetts, 01108

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*



LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>Forest Park Height</i>	DECISION:
DATE RECEIVED: <i>December 9, 2025</i>	DECISION DATE:
HEARING DATE: <i>December 18, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>December 4, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>December 4, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 92 Marengo Park, Springfield, Massachusetts, 01108

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 92 Marengo Park, Springfield, Massachusetts, 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Joe Morris		
OWNER ADDRESS: <input checked="" type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: 4132191537	REPRESENTATIVE/CONTRACTOR NAME: Nicole Hafeez	
OWNER EMAIL ADDRESS: joemorris1024@gmail.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: Nicole.H@empowerenergy.co	
PROPERTY CODE: 08250-0015	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: 914-629-4011	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Install roof mounted solar PV system of 27 Modules @11. 61 kW DC		PROPOSED MODIFICATIONS (Please check all that apply) <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input checked="" type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Joe Morris

PROPERTY OWNER'S SIGNATURE

12/05/2025

DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):		
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):		
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
ADDITIONAL INFORMATION:		

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

YES (PLEASE PROVIDE MORE INFO ABOVE)
No

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	asphalt shingle
NUMBER OF SOLAR POWERED PANELS:	27
SOLAR MANUFACTURER:	Jinko 430
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	Back side of the roof
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	rear of building
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	rear of building
LOCATION OF CONDUIT (e.g. side of building, inside the house):	DC CONDUIT RAN ON EXTERIOR OF HOME
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	

Transaction Level Key Event Audit Trail

Generation Date: 2025-12-05 17:21:42 UTC
Document generated with PROOF ENGINE® timestamps.
Energy Scape Renewables
Transaction ID: otq7qbirm
Signatories:
Joe Morris (joemorris1024@gmail.com)



Date	User Name	User IP	Action	Document Name
2025-12-02 20:12:48 UTC	Blescy San Juan	136.158.11.98	Document Created	HistoricalComissionApplication.pdf
2025-12-05 17:20:30 UTC	Joe Morris		Login Success Passwordless	
2025-12-05 17:21:30 UTC	Joe Morris	24.147.17.48	Created/adopted electronic signature	HistoricalComissionApplication.pdf
2025-12-05 17:21:33 UTC	Joe Morris	24.147.17.48	Signature Added	HistoricalComissionApplication.pdf
2025-12-05 17:21:40 UTC		24.147.17.48	Digital Certificate Applied to Document	HistoricalComissionApplication.pdf

NEW PHOTOVOLTAIC SYSTEM

92 MARENGO PARK, SPRINGFIELD, MA, 01108

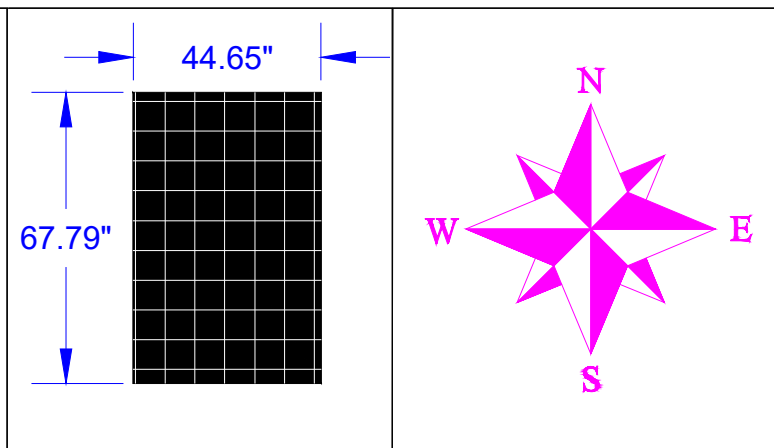
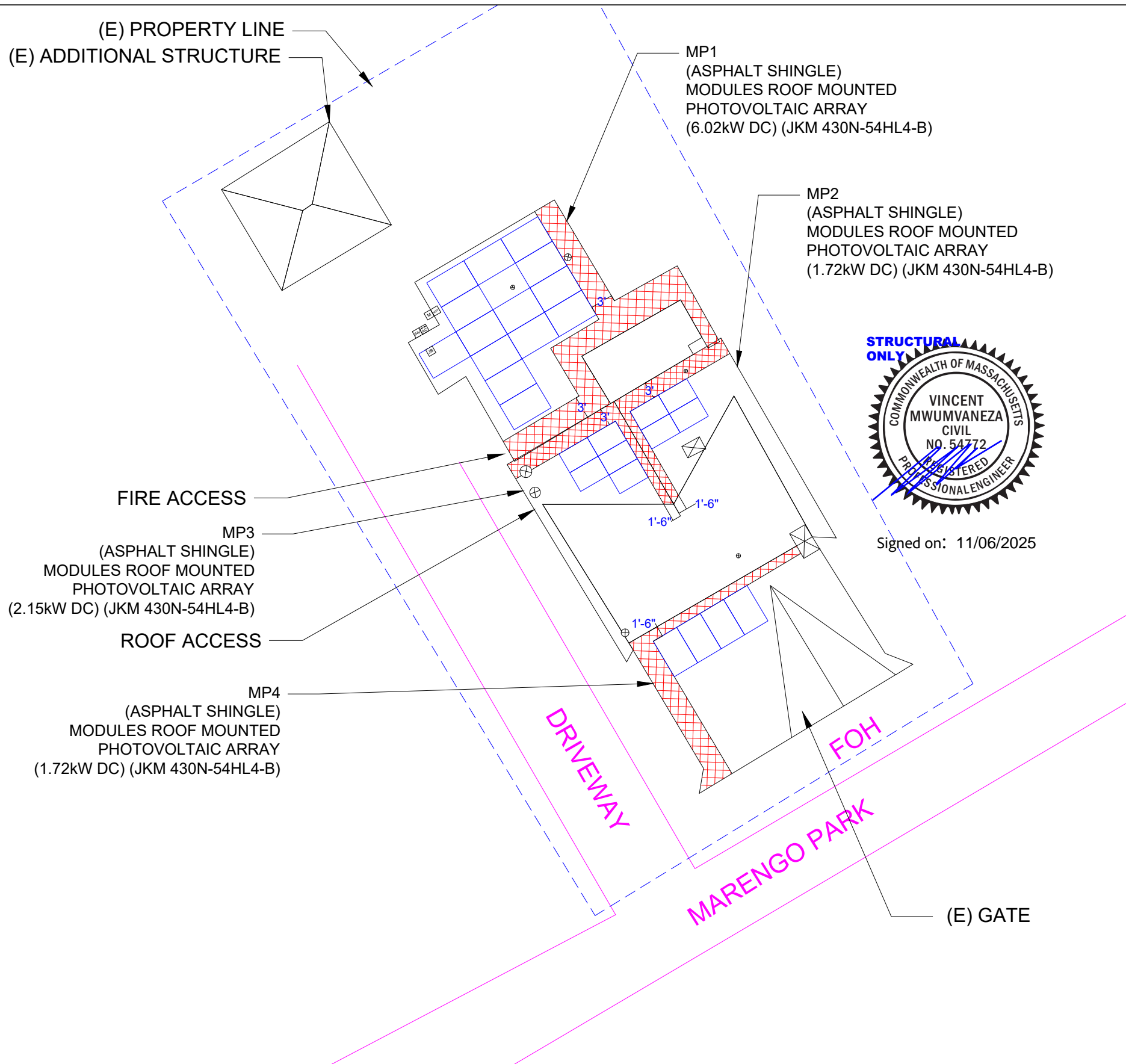
TABLE OF CONTENT		GENERAL NOTES		HOUSE AERIAL VIEW		PROJECT INFORMATION: 11.61 kW																							
PV0	DIRECTORY PLACARD	<p>PROJECT NOTES:</p> <ol style="list-style-type: none"> THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES. THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION. GROUND FAULT DETECTION AND INTERRUPTION (GFDI) DEVICE IS INTEGRATED WITH THE INVERTER IN ACCORDANCE WITH NEC 690.41(B) ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4: PV MODULES: UL1703, IEC61730, AND IEC61215, AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7. ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 7. SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING [NEC 110.3]. ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ. <p>WORK INCLUDES:</p> <ol style="list-style-type: none"> PV RACKING SYSTEM INSTALLATION RACKING PV MODULE AND INVERTER INSTALLATION RACKING PV EQUIPMENT ROOF MOUNT PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOX PV LOAD CENTERS (IF INCLUDED) PV METERING/MONITORING (IF INCLUDED) PV DISCONNECTS PV GROUNDING ELECTRODE & BONDING TO (E) GEC PV FINAL COMMISSIONING (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV SIGNAGE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE 				<p>ROOF MOUNT RESIDENTIAL PHOTOVOLTAIC SYSTEM</p> <table border="1"> <tr> <td>SYSTEM SIZE (DC)</td> <td>11.61 kDC</td> </tr> <tr> <td>SYSTEM SIZE (AC)</td> <td>10.00 kAC</td> </tr> <tr> <td>MODULES</td> <td>(27) JKM 430N-54HL4-B</td> </tr> <tr> <td>POWER OPTIMIZER</td> <td>(27) S440</td> </tr> <tr> <td>INVERTER -1</td> <td>(1) SE10000H-US (10.00 KW)</td> </tr> <tr> <td>INVERTER - 2</td> <td>(—) — (0.00 KW)</td> </tr> <tr> <td>ROOF SLOPES</td> <td>8,38,35,45,----</td> </tr> <tr> <td>AZIMUTH</td> <td>22,61,241,151,----</td> </tr> <tr> <td>MAIN SERVICE PANEL RATING</td> <td>100 AMPERE</td> </tr> <tr> <td>INTERCONNECTION</td> <td>LINE SIDE TAP IN MSP</td> </tr> <tr> <td>ROOF RACKING AND PROFILE</td> <td>K2-CROSSRAIL 44-X, RT-MINI, 2X6</td> </tr> </table>		SYSTEM SIZE (DC)	11.61 kDC	SYSTEM SIZE (AC)	10.00 kAC	MODULES	(27) JKM 430N-54HL4-B	POWER OPTIMIZER	(27) S440	INVERTER -1	(1) SE10000H-US (10.00 KW)	INVERTER - 2	(—) — (0.00 KW)	ROOF SLOPES	8,38,35,45,----	AZIMUTH	22,61,241,151,----	MAIN SERVICE PANEL RATING	100 AMPERE	INTERCONNECTION	LINE SIDE TAP IN MSP	ROOF RACKING AND PROFILE	K2-CROSSRAIL 44-X, RT-MINI, 2X6
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PV1	COVER SHEET																												
PV2	SITE PLAN																												
PV3	ARRAY DETAIL																												
PV4	MOUNTING DETAILS																												
PV5	ELECTRICAL SINGLE LINE DIAGRAM																												
PV6	ELECTRICAL THREE LINE DIAGRAM																												
PV7&8	APPLICABLE CODES																												
PROJECT NOTES		<p>APPLICABLE CODES & STANDARDS</p> <p>BUILDING: IBC 2021 IRC 2021 ELECTRICAL: NEC 2023</p> <p>EMPOWER ENERGY SOLUTION 30 OLD KINGS HWY S # 1001, DARIEN CT, 06820-4551</p> <p>LICENSES HIC: 198351 ELEC: 8209-EL-A1</p>		<p>SEAL</p>																									
EQUIPMENTS																													
<ol style="list-style-type: none"> ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26. WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31(A),(C) AND NEC TABLES 310.15(B)(2)(A) AND 310.15(B)(3)(C). JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34. ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT. ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES. ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE. 																													
WIRING & CONDUIT:																													
<ol style="list-style-type: none"> ALL CONDUITS AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING. CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7 DC WIRING LIMITED TO MODULE FOOTPRINT. MICRO INVERTER WIRING SYSTEMS SHALL BE LOCATED AND SECURED UNDER THE ARRAY WITH SUITABLE WIRING CLIPS. AC CONDUCTORS COLORED OR MARKED AS FOLLOWS: PHASE A OR L1- BLACK, PHASE B OR L-2 RED, OR OTHER CONVENTION IF THREE PHASE, PHASE C OR L3-BLUE, YELLOW, ORANGE, OR OTHER CONVENTION NEUTRAL- WHITE OR GREY IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH THE HIGHER VOLTAGE TO BE MARKED ORANGE NEC 110.15. 																													
SCOPE OF WORK:																													
<p>PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT</p>																													
<p>EMPPOWER ENERGY SOLUTIONS</p>		<p>JOB NUMBER: 5109</p>		<p>UTILITY: EVERSOURCE</p>		<p>AA</p>																							
<p>RACKING: K2-CROSSRAIL 44-X, RT-MINI</p>		<p>UTILITY ACCT #: 72002598091</p>		<p>MORRIS, JOE</p>		<p>MORRIS RESIDENCE</p>																							
<p>MODULES: (27) JINKO JKM 430N-54HL4-B</p>		<p>MORRIS RESIDENCE</p>		<p>92 MARENGO PARK</p>		<p>11.61 kW DC ROOF SOLAR SYSTEM</p>																							
<p>INVERTER: (1) SOLAREEDGE HOME HUB INVERTER SE10000H-US (10.00 KW)</p>		<p>(413) 219-1537</p>		<p>SPRINGFIELD, MA, 01108</p>		<p>10.00 kW AC</p>																							
<p>REVIEW BY:</p>		<p>DATE:</p>		<p>31-10-2025</p>		<p>PAGE NAME: COVER SHEET</p>																							

SITE PLAN NOTES

1. VISIBLE, LOCKABLE, LABELED AC DISCONNECT LOCATED WITHIN 10' OF UTILITY METER
2. AC DISCONNECT IS 24/7 ACCESSIBLE, TAGGABLE, AND UTILITY ACCESSIBLE.
3. LOCATION OF JUNCTION BOX(ES), AC DISCONNECTS(S), SUB PANEL(S), AND OTHER ELECTRICAL EQUIPMENT(S) RELEVANT TO PV INSTALLATION SUBJECT TO CHANGE BASED ON SITE CONDITIONS.
4. ALL CONSTRUCTION / INSTALLATION IS TO COMPLY WITH THE FOLLOWING: ALL DIMENSIONS ARE APPROXIMATE.
5. ROOF VENTS, SKYLIGHTS, WILL NOT BE COVERED UPON PV INSTALLATION.
6. WORKSPACE IN FRONT OF AC ELECTRICAL SYSTEM COMPONENTS SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS.
7. UTILITY SHALL HAVE 24HR UNRESTRICTED ACCESS TO ALL PHOTOVOLTAIC COMPONENTS LOCATED AT SES EQUIPMENT.

LEGEND

- M UTILITY METER
- INV INVERTER
- AC AC DISCONNECT
- MSP MAIN SERVICE PANEL
- JB DC JUNCTION BOX
- μ MONITORING UNIT
- B BATTERY
- LC LOAD CENTER
- ATS AUTOMATIC TRANSFER SWITCH

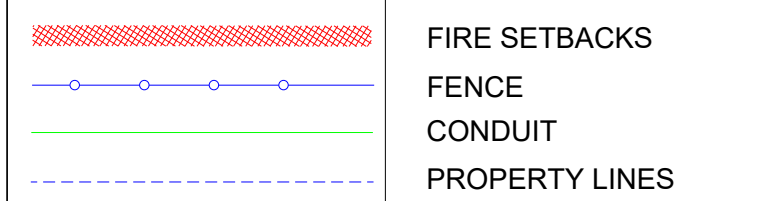


PV ELECTRICAL CHARACTERISTICS

NAME& MODEL	JINKO	JKM430N-54HL4-B
P(max)	430	WATT
Vmp	32.58	VOLTAGE
Imp	10.60	AMPERE
Voc	39.16	VOLTAGE
Isc	13.65	AMPERE
Efficiency(%)	22.02	PERCENTAGE

ROOF AREA, (sq. ft)	3128
MODULES AREA, (sq. ft)	567.53
ROOF AREA COVERED BY MODULES (%)	18.14

INVERTER ELECTRICAL CHARACTERISTICS		SEALED
MAX OUTPUT CURRENT (AC)	42A	
MAX OUTPUT POWER (AC)	10000W	
NOM. OUTPUT VOLTAGE (AC)	240V	
MAX INPUT POWER (DC)	20000W	
MAX INPUT CURRENT (DC)	30A	



JOB NUMBER: 5109
 RACKING: K2-CROSSRAIL 44-X, RT-MINI
 MODULES: (27) JINKO JKM 430N-54HL4-B
 INVERTER: (1) SOLAREEDGE HOME HUB INVERTER SE10000H-US (10.00 KW)

UTILITY: EVERSOURCE
 UTILITY ACCT #: 72002598091

MORRIS, JOE
 92 MARENGO PARK
 SPRINGFIELD, MA, 01108
 (413) 219-1537

MORRIS RESIDENCE
 11.61 kW DC ROOF SOLAR SYSTEM
 10.00 kW AC

REVIEW BY: AA
 REV: DATE: 31-10-2025

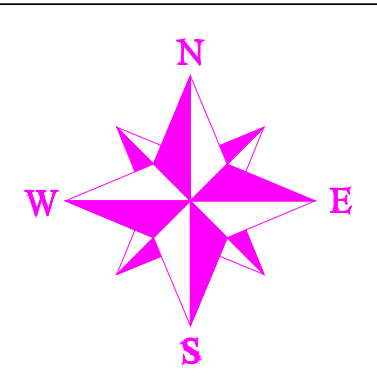
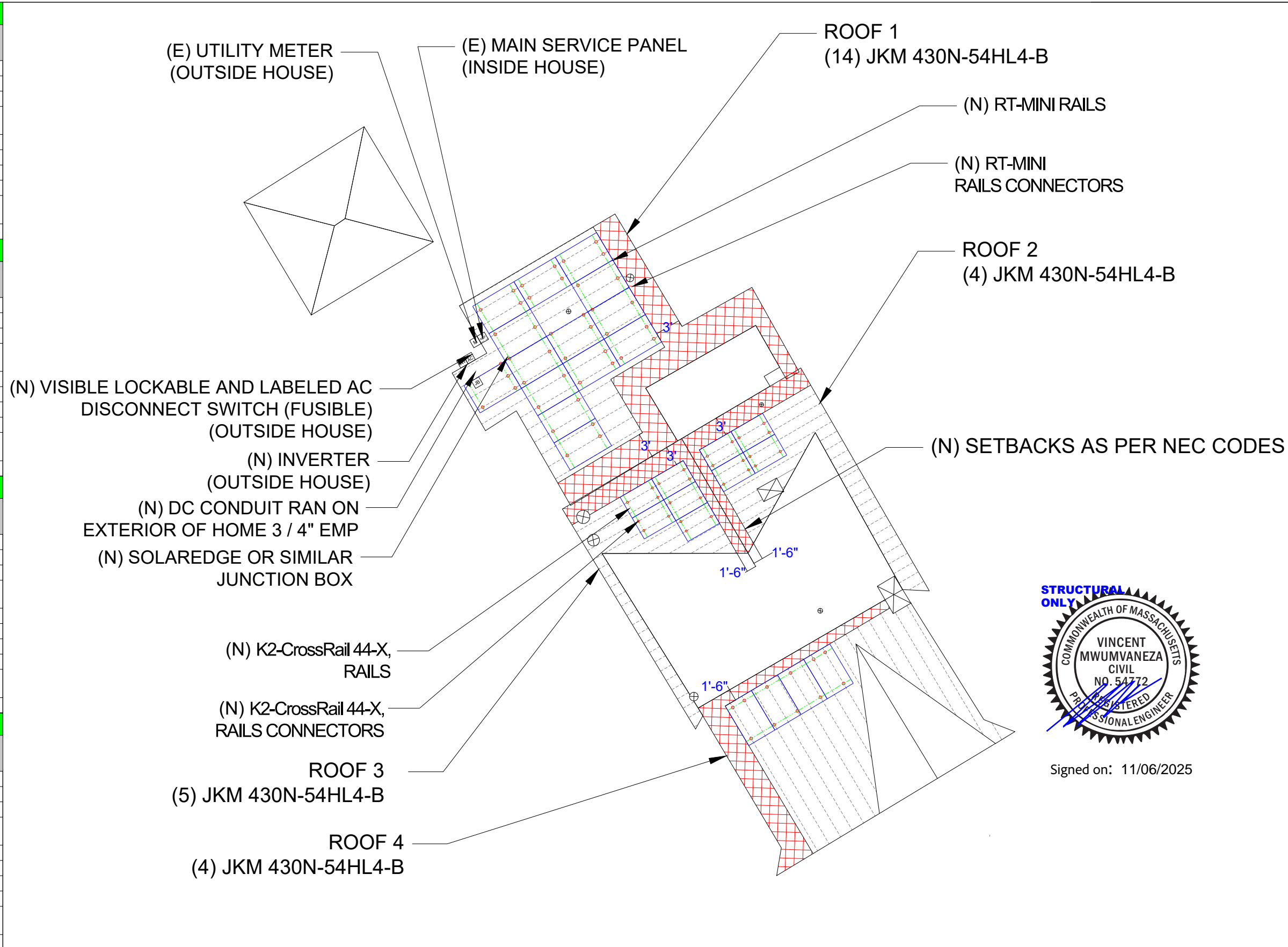
PV2
 PAGE NAME: SITE PLAN

ROOF 1	
RAFTER PROFILE	2X6
RAFTER SPACING	20"
C.J. SPACING	20"
ATTACHMENT SPACING	40"
ROOF PITCH	8°
ARRAY PITCH	8°
ROOF AZIMUTH	22°
ARRAY AZIMUTH	22°
ROOF SURFACE TYPE	RUBBER
STORIES	2

ROOF 2	
RAFTER PROFILE	2X6
RAFTER SPACING	20"
C.J. SPACING	20"
ATTACHMENT SPACING	40"
ROOF PITCH	38°
ARRAY PITCH	38°
ROOF AZIMUTH	61°
ARRAY AZIMUTH	61°
ROOF SURFACE TYPE	ASPHALT SHINGLE
STORIES	2

ROOF 3	
RAFTER PROFILE	2X6
RAFTER SPACING	20"
C.J. SPACING	20"
ATTACHMENT SPACING	40"
ROOF PITCH	35°
ARRAY PITCH	35°
ROOF AZIMUTH	241°
ARRAY AZIMUTH	241°
ROOF SURFACE TYPE	ASPHALT SHINGLE
STORIES	2

ROOF 4	
RAFTER PROFILE	2X6
RAFTER SPACING	20"
C.J. SPACING	20"
ATTACHMENT SPACING	40"
ROOF PITCH	45°
ARRAY PITCH	45°
ROOF AZIMUTH	151°
ARRAY AZIMUTH	151°
ROOF SURFACE TYPE	ASPHALT SHINGLE
STORIES	2

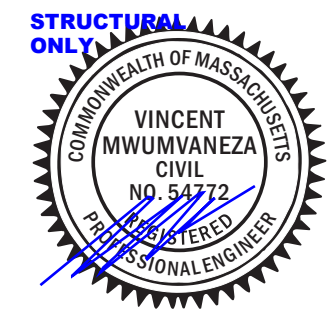


PENETRATION COUNTS	MP1	MP2	MP3	MP4
	40	12	14	11

NOTE:

1- ROOF TOP CONDUIT SHALL BE MIN 7/8" ABOVE ROOF SURFACE.

2- SITE SHALL MAINTAIN 24 HOUR UNRESTRICTED ACCESS. NO FENCE, GATE, OR OBSTRUCTION SHALL IMPEDE ENTRY.



Signed on: 11/06/2025

SEALED



JOB NUMBER: 5109 UTILITY: EVERSOURCE

RACKING: K2-CROSSRAIL 44-X, RT-MINI UTILITY ACCT #: 72002598091

MODULES: (27) JINKO JKM 430N-54HL4-B

INVERTER: (1) SOLAREGE HOME HUB INVERTER SE10000H-US (10.00 KW)

MORRIS, JOE
92 MARENGO PARK
SPRINGFIELD, MA, 01108
(413) 219-1537

MORRIS RESIDENCE
11.61 kW DC ROOF SOLAR SYSTEM
10.00 kW AC

AA

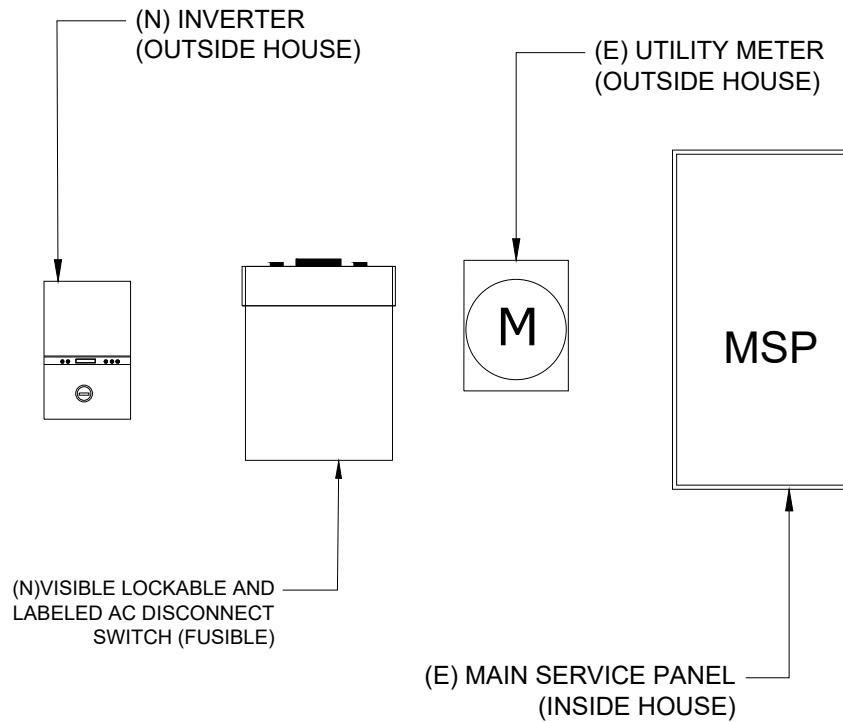
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REV: DATE: 31-10-2025

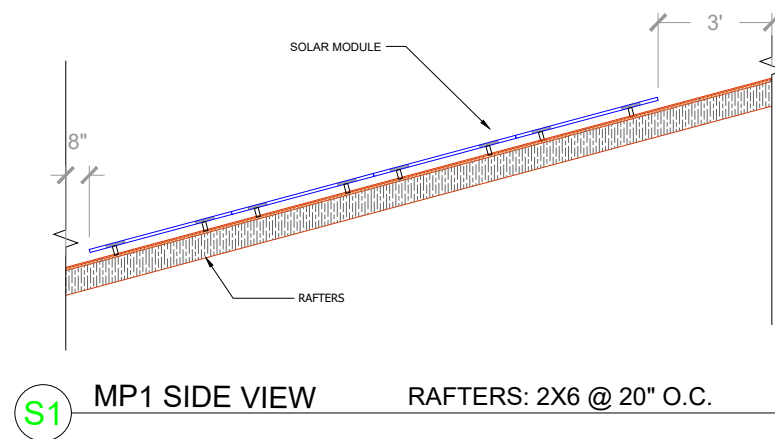
PV3

PAGE NAME: ARRAY DETAIL

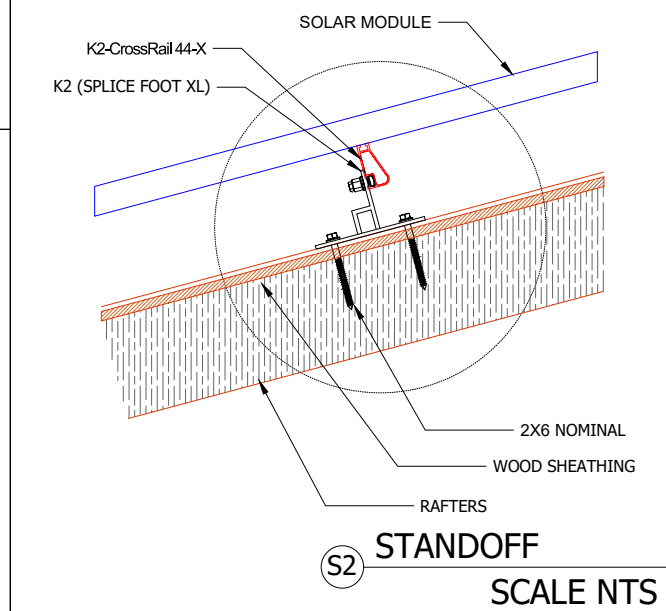
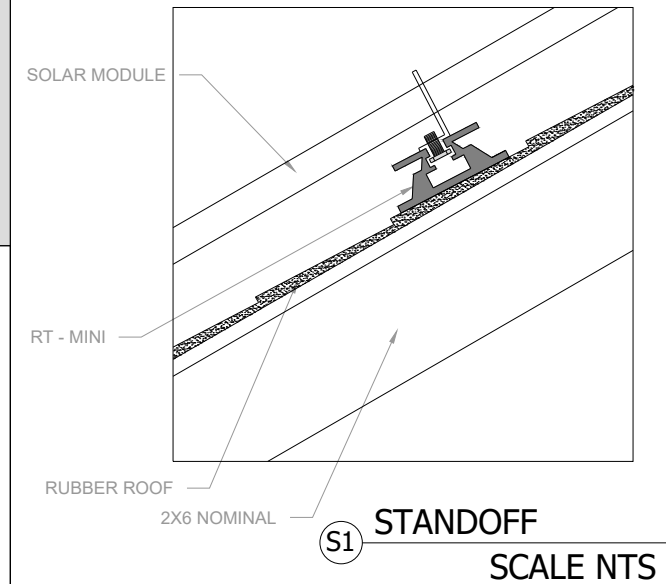
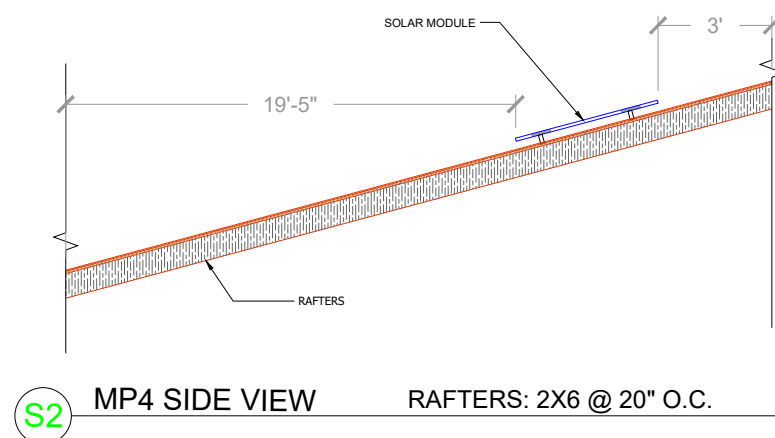
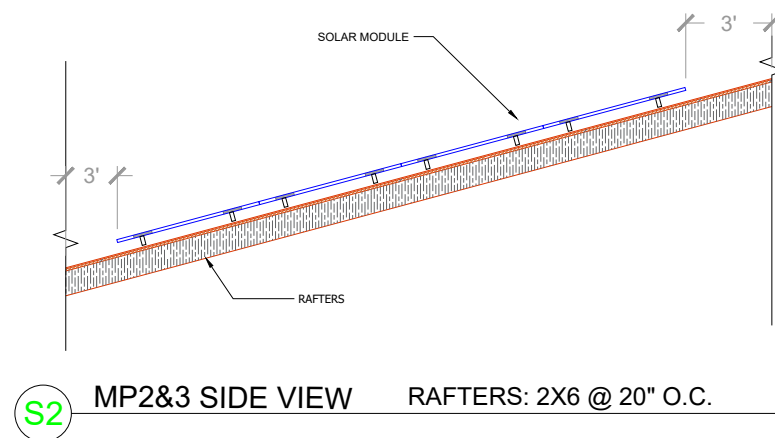
EQUIPMENTS ELEVATION DRAWING



STRUCTURAL ATTACHMENT (SIDE VIEW)



Signed on: 11/06/2025



SEALED

JOB NUMBER: 5109
 RACKING: K2-CROSSRAIL 44-X, RT-MINI
 MODULES: (27) JINKO JKM 430N-54HL4-B
 INVERTER: (1) SOLAREEDGE HOME HUB INVERTER SE10000H-US (10.00 KW)

UTILITY: EVERSOURCE
 UTILITY ACCT #: 72002598091

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MORRIS RESIDENCE
 11.61 KW DC ROOF SOLAR SYSTEM
 10.00 KW AC

AA
 REVIEW BY:
 REV: DATE: 31-10-2025

PV4
 PAGE NAME: MOUNTING DETAILS

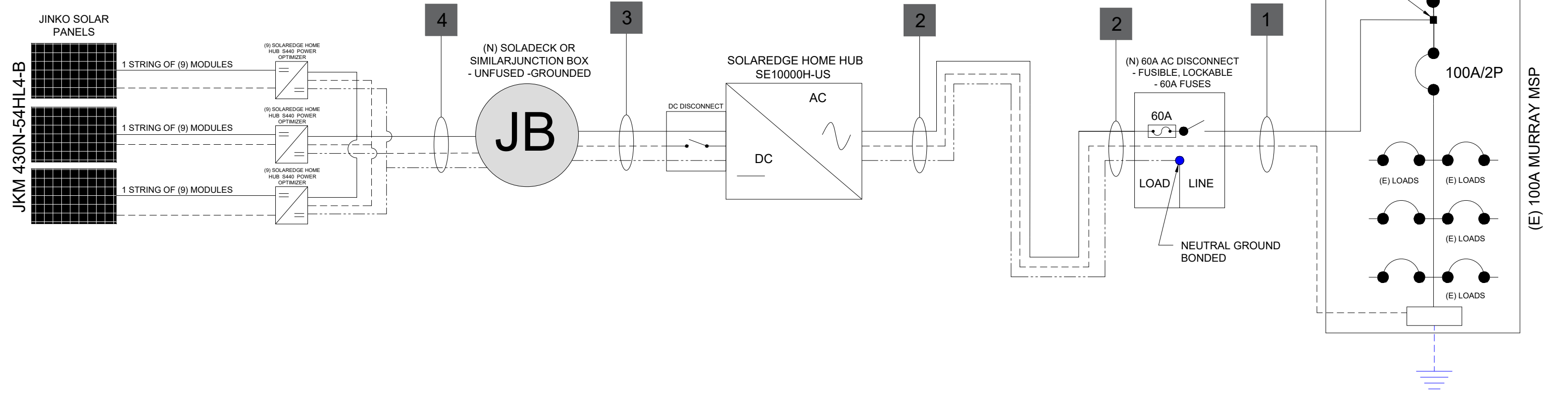


ADDITIONAL NOTES:

1. MARKING IS REQUIRED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES TO ALERT THE FIRE SERVICE TO AVOID CUTTING THEM. MARKING SHOULD BE PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT A MINIMUM OF EVERY 10' FEET, AT TURNS AND ABOVE AND OR BELOW PENETRATIONS AND ALL DC COMBINER AND JUNCTION BOXES.

2. ALL EXPOSED PV ROOFTOP CONDUCTORS THAT ARE NOT LOCATED UNDER THE ARRAY MODULES, SHALL INCLUDE LISTED JUNCTION BOXES AT BOTH ENDS OF THE RACEWAY TO TRANSITION FROM EXPOSED CONDUCTORS TO THE LISTED RACEWAYS."

	BREAKER
	FUSE
	SWITCH
	EARTH GROUND
	GEC
	EGC



WIRE SCHEDULE			
1	2	3	4
AWG #6, THWN-2	AWG #6, THWN-2	AWG #10, THWN-2	AWG #10, PV WIRE
AWG #8, THWN-2, EGC/GEC	AWG #8, THWN-2, EGC/GEC	AWG #10, THWN-2, EGC/GEC	AWG #10, THWN-2, EGC
CONDUIT, 3/4" EMT	CONDUIT, 3/4" EMT	CONDUIT, 3/4" EMT	CONDUIT, 3/4" EMT

TIE IN:	LINE SIDE TAP	INVERTER OUTPUT CURRENT(A)=	42
		INVERTER BACKFEED (A)=	53
		MSP RATING (A)=	100
		MAIN BREAKER RATING (A)=	100
		MAX BACKFEED (A)=	20

	JOB NUMBER: 5109	UTILITY: EVERSOURCE
	RACKING: K2-CROSSRAIL 44-X, RT-MINI	UTILITY ACCT #: 72002598091
	MODULES: (27) JINKO JKM 430N-54HL4-B	
	INVERTER: (1) SOLAREDEGE HOME HUB INVERTER SE10000H-US (10.00 KW)	

MORRIS, JOE
 92 MARENGO PARK
 SPRINGFIELD, MA, 01108
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



MORRIS RESIDENCE
 11.61 kW DC ROOF SOLAR SYSTEM
 10.00 kW AC

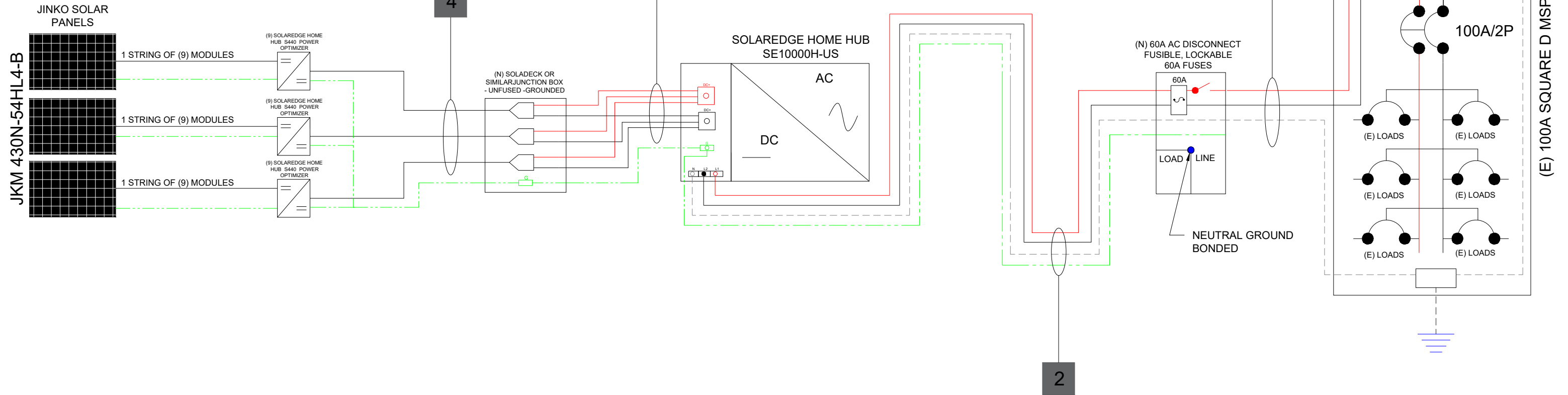
AA	
REVIEW BY:	
REV: DATE: 31-10-2025	PAGE NAME: ELECTRICAL SINGLE LINE DIAGRAM

ADDITIONAL NOTES:

1. MARKING IS REQUIRED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, CABLE ASSEMBLIES, AND JUNCTION BOXES TO ALERT THE FIRE SERVICE TO AVOID CUTTING THEM. MARKING SHOULD BE PLACED ON ALL INTERIOR AND EXTERIOR DC CONDUIT, RACEWAYS, ENCLOSURES, AND CABLE ASSEMBLIES, AT A MINIMUM OF EVERY 10' FEET, AT TURNS AND ABOVE AND OR BELOW PENETRATIONS AND ALL DC COMBINER AND JUNCTION BOXES.

2. ALL EXPOSED PV ROOFTOP CONDUCTORS THAT ARE NOT LOCATED UNDER THE ARRAY MODULES, SHALL INCLUDE LISTED JUNCTION BOXES AT BOTH ENDS OF THE RACEWAY TO TRANSITION FROM EXPOSED CONDUCTORS TO THE LISTED RACEWAYS."

	BREAKER
	FUSE
	SWITCH
	EARTH GROUND
	GEC
	EGC



WIRE SCHEDULE

1	2	3	4
AWG #6, THWN-2	AWG #6, THWN-2	AWG #10, THWN-2	AWG #10, PV WIRE
AWG #8, THWN-2, EGC/GEC	AWG #8, THWN-2, EGC/GEC	AWG #10, THWN-2, EGC/GEC	AWG #10, THWN-2, EGC
CONDUIT, 3/4" EMT	CONDUIT, 3/4" EMT	CONDUIT, 3/4" EMT	CONDUIT, 3/4" EMT

TIE IN:

LINE SIDE TAP

INVERTER OUTPUT CURRENT(A)=	42
INVERTER BACKFEED (A)=	53
MSP RATING (A)=	100
MAIN BREAKER RATING (A)=	100
MAX BACKFEED (A)=	20



JOB NUMBER: 5109
 RACKING: K2-CROSSRAIL 44-X, RT-MINI
 MODULES: (27) JINKO JKM 430N-54HL4-B
 INVERTER: (1) SOLAREEDGE HOME HUB INVERTER SE10000H-US (10.00 KW)

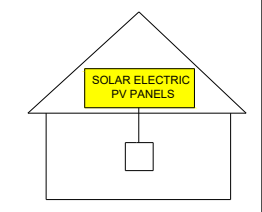
UTILITY: EVERSOURCE
 UTILITY ACCT #: 72002598091


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MORRIS RESIDENCE
 11.61 kW DC ROOF SOLAR SYSTEM
 10.00 kW AC

AA
 REVIEW BY:
 REV: DATE: 31-10-2025

PV6

<p>1 Combiner Box/circuits/Conduit Combiner Box/Enclosures/EMT Enclosures /Main Service Disconnect/ Breaker Panel/Pull Boxes SCALE 1/4" - 1'.0"</p> <p>WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION</p> <p>NEC 706.15(C)(4) and NEC 690.13(B) Roll: 596-00878 / 10-Pk: 596-00893 Metal 5-Pk: 596-00921</p>	<p>2 Combiner Box/circuits/Conduit Combiner Box/Enclosures/EMT Enclosures /Main Service Disconnect/ Breaker Panel/Pull Boxes SCALE 1/4" - 1'.0"</p> <p>WARNING TURN OFF PHOTOVOLTAIC AC DISCONNECT PRIOR TO WORKING INSIDE PANEL</p> <p>NEC 110.27(C) & OSHA 1910.145(f)(7) Roll: 596-00499 / 10-Pk: 596-00664 Metal 5-Pk: 596-00832</p>	<p>3 AC Disconnection/Point Of Interconnection SCALE 1/4" - 1'.0"</p> <p>PHOTOVOLTAIC SYSTEM EQUIPPED WITH RAPID SHUTDOWN</p> <p>TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUTDOWN PV SYSTEM AND REDUCE SHOCK HAZERD IN THE ARRAY</p> 	<p>4 DC Disconnect / Breaker / Recombiner Box SCALE 1/4" - 1'.0"</p> <p>WARNING ELECTRICAL SHOCK HAZARD TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION</p> <p>DC VOLTAGE IS ALWAYS PRESENT WHEN SOLAR MODULES ARE EXPOSED TO SUNLIGHT</p> <p>NEC 690.13(B) / Roll: 596-00879 10-Pk: 596-00894 / Metal 5-Pk: 596-00920</p>
<p>5 DC Disconnect / Breaker / Recombiner Box SCALE 1/4" - 1'.0"</p> <p>PHOTOVOLTAIC DC DISCONNECT</p> <p>NEC 690.13(B) Roll: 596-00238 / 10-Pk: 596-00854</p>	<p>6 DC Disconnect / Breaker / Recombiner Box SCALE 1/4" - 1'.0"</p> <p>RATED AC OPERATING CURRENT: <input type="text"/> MAX RATED AC OPERATING CURRENT: <input type="text"/> RATED AC OPERATING VOLTAGE: <input type="text"/> MAX RATED AC OPERATING VOLTAGE: <input type="text"/> RATED SHORT CIRCUIT CURRENT: <input type="text"/> MAXIMUM SYSTEM VOLTAGE: <input type="text"/></p> <p>FOR MARKING DC BACKUP SYSTEMS / Roll: 596-00240</p>	<p>7 DC Disconnect / Breaker / Recombiner Box SCALE 1/4" - 1'.0"</p> <p>MAXIMUM DC VOLAGE OF PV SYSTEM</p> <p>NEC 690.53 / Roll: 596-01001 / 10-Pk: 596-01009</p>	<p>8 EMT / Conduit Raceways SCALE 1/4" - 1'.0"</p> <p>SOLAR PV DC CIRCUIT NEC 690.31(O)(2) / Roll: 596-00998 / 10-Pk: 596-01006</p> <p>PHOTOVOLTAIC POWER SOURCE NEC 690.31(D)(2) / Roll: 596-00999 / 10-Pk: 596-01007</p>
<p>9 INVERTER SCALE 1/4" - 1'.0"</p> <p>WARNING THE DISCONNECTION OF THE GROUNDED CONDUCTOR(S) MAY RESULT IN OVERVOLTAGE ON THE EQUIPMENT</p> <p>NEC 690.31(E) / Roll: 596-09323 10-Pk: 596-09324 / Metal 5-Pk: 596-00924</p>	<p>10 Inverter / Breaker Panel / Pull Boxes / AC disconnect /Breaker/Points Of Connection SCALE 1/2" - 1'.0"</p> <p>PHOTOVOLTAIC AC DISCONNECT RATED AC OUTPUT CURRENT: <input type="text"/> NOMINAL OPERATING AC VOLTAGE: <input type="text"/></p> <p>NEC 690.54 / Roll: 596-00892 / 10-Pk: 596-00882</p>	<p>11 Production / Net Meter (Bi-directional) / Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</p> <p>NEC 705.12(D)(3) & NEC 690.59 / Roll: 596-00495 10-Pk: 596-09665 / Metal 5-Pk: 596-00833</p>	<p>ENGINEERING STAMP (if appl.)</p> <p>SEALED</p>

	<p>JOB NUMBER: 5109 RACKING: K2-CROSSRAIL 44-X, RT-MINI MODULES: (27) JINKO JKM 430N-54HL4-B INVERTER: (1) SOLAREEDGE HOME HUB INVERTER SE10000H-US (10.00 KW)</p>	<p>UTILITY: EVERSOURCE UTILITY ACCT #: 72002598091</p>	<p>MORRIS, JOE 92 MARENGO PARK SPRINGFIELD, MA, 01108 (413) 219-1537</p>	<p>MORRIS RESIDENCE 11.61 kW DC ROOF SOLAR SYSTEM 10.00 kW AC</p>	<p>AA REVIEW BY: REV: DATE: 31-10-2025</p>	<p>PV7 PAGE NAME: APPLICABLE CODES</p>
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<p>12 AC Disconnect / Breaker / Points of Connection SCALE 1/4" - 1'.0"</p> <p>PHOTOVOLTAIC AC DISCONNECT</p> <p>NEC 690.13(B) / Roll: 596-00237 / 10-Pk: 596-00853</p>	<p>13 AC Disconnect / Breaker / Points of Connection SCALE 1/4" - 1'.0"</p> <p>WARNING THIS EQUIPMENT FED BY MULTIPLE SOURCES: TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN POWER SUPPLY SHALL NOT EXCEED AMPACITY OF BUSBAR</p> <p>NEC 705.12(B)(3)(3) / Roll: 596-01000 / 10-Pk: 596-01008</p>	<p>14 Main Service Disconnect/ Utility Meter SCALE 1/4" - 1'.0"</p> <p>MAIN PHOVOLTAIC SYSTEM DISCONNECT</p> <p>NEC 690.13(B) / Roll: 596-00243 / 10-Pk: 596-00675 / Metal 5-Pk: 596-00860</p>	<p>21</p> <p>PHOTOVOLTAIC AC DISCONNECT</p> <p>RATED AC OUTPUT CURRENT: <input type="text"/> NOMINAL OPERATING AC VOLTAGE: <input type="text"/></p> <p>LABEL LOCATION INTERACTIVE SYSTEM POINT OF INTERCONNECTION PER CODE: NFPA 70, NEC 690.54</p>	
<p>15 Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>WARNING SINGLE 120-VOLT SUPPLY DO NOT CONNECT MULTIWIRED BRANCH CIRCUITS</p> <p>NEC 710.15(C) & 692.9 (C) / Roll: 596-00591 / 10-Pk: 596-00699 / Metal 5-Pk: 596-00837</p>	<p>16 Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>DO NOT DISCONNECT UNDER LOAD</p> <p>NEC 690.15 (B) & NEC 690.33(D)(2) / Roll: 596-00244 / 10-Pk: 596-00671</p>	<p>17 ENERGY STORAGE SYSTEMS SCALE 1/4" - 1'.0"</p> <p>NOMINAL ESS AC VOLTAGE: <input type="text"/> NOMINAL ESS DC VOLTAGE: <input type="text"/> AVAILABLE FAULT CURRENT DERIVED FROM THE ESS: <input type="text"/> DATE CALCULATION PERFORMED: <input type="text"/></p> <p>NEC 690.15 (B) & NEC 690.33(D)(2) / Roll: 596-00244 / 10-Pk: 596-00671</p>	<p>22</p> <p>WARNING DUAL POWER SOURCE SECOND SOURCE IS PHOTOVOLTAIC SYSTEM</p> <p>LABEL LOCATION POINT OF INTERCONNECTION PER CODE: NEC705.12(B)(3)</p>	
<p>18 Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>CAUTION PHOTOVOLTAIC SYSTEM CIRCUIT IS BACKFEED</p> <p>NEC 705.12(D) & NEC 690.59 / Roll: 596-00587 / 10-Pk: 596-00666 / Metal 5-Pk: 596-00834</p>	<p>19 Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>WARNING POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE.</p> <p>NEC 705.12 (B)(3)(2) / Roll: 596-00883 / 10-Pk: 596-00884 / Metal 5-Pk: 596-00917</p>	<p>20 ENERGY STORAGE SYSTEMS SCALE 1/4" - 1'.0"</p> <p>WARNING FUEL CELL POWER SYSTEM CONTAINS ENERGY STORAGE DEVICES</p> <p>NEC 692.56 / Roll: 596-01002 / 10-Pk: 596-01010</p>	<p>23</p> <p>WARNING PHOTOVOLTAIC POWER SURGE</p> <p>LABEL LOCATION CONDUIT, COMBINER BOX PER CODE: NEC690.31(G)(3)</p>	
<p>18 Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>19 Main Service Disconnect SCALE 1/4" - 1'.0"</p> <p>20 ENERGY STORAGE SYSTEMS SCALE 1/4" - 1'.0"</p>				<p>ENGINEERING STAMP (if appl.)</p> <p>SEALED</p>

	<p>JOB NUMBER: 5109 RACKING: K2-CROSSRAIL 44-X, RT-MINI MODULES: (27) JINKO JKM 430N-54HL4-B INVERTER: (1) SOLAREEDGE HOME HUB INVERTER SE10000H-US (10.00 KW)</p>	<p>UTILITY: EVERSOURCE UTILITY ACCT #: 72002598091</p>	<p>MORRIS, JOE 92 MARENGO PARK SPRINGFIELD, MA, 01108 (413) 219-1537</p>	<p>MORRIS RESIDENCE 11.61 kW DC ROOF SOLAR SYSTEM 10.00 kW AC</p>	<p>AA REVIEW BY: REV: DATE: 31-10-2025</p>	<p>PV8 PAGE NAME: APPLICABLE CODES</p>
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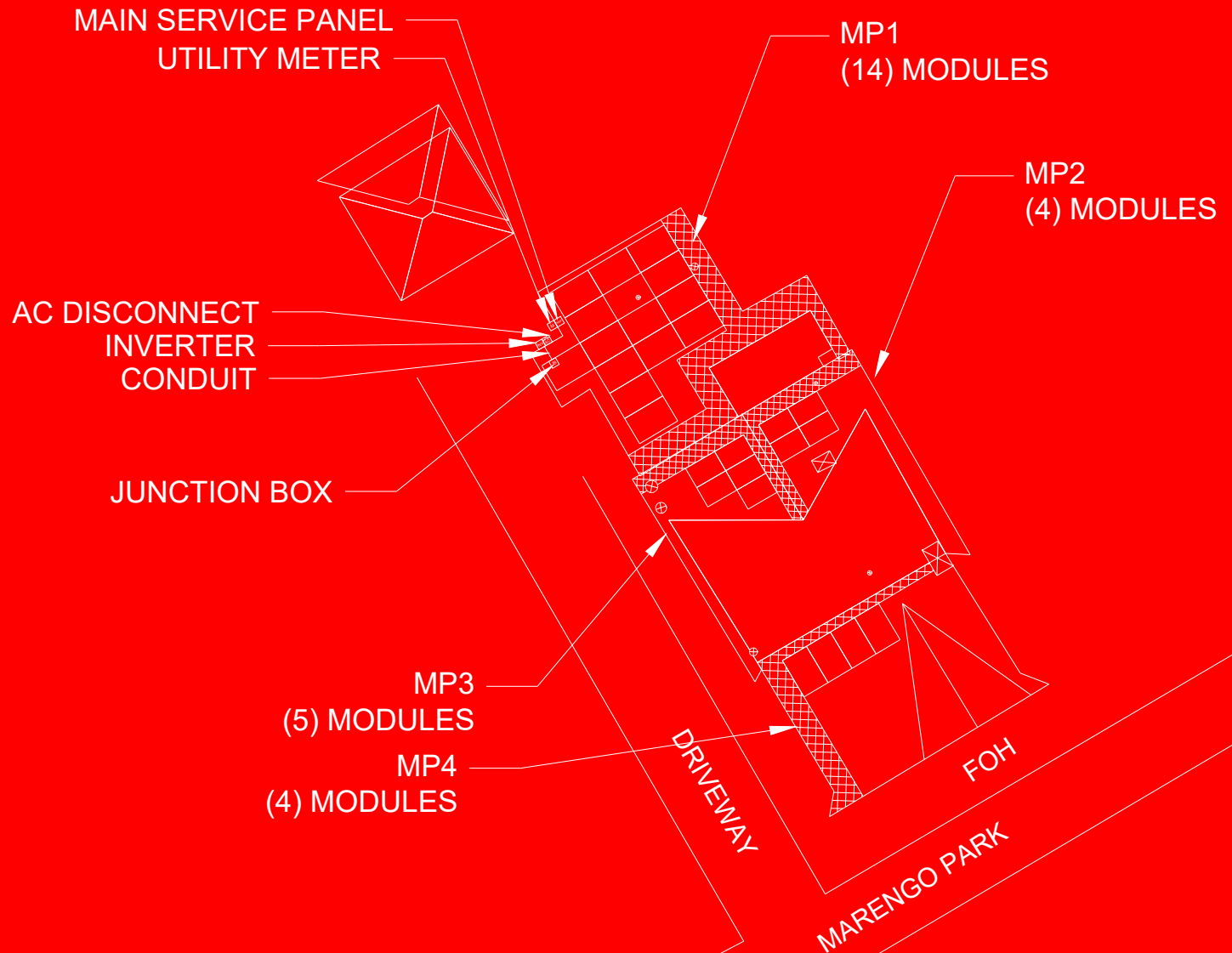
CUSTOMER SERVICE PANEL

DIRECTORY/PLAQUE (2020 NEC ARTICLE 705.10)



CAUTION !

POWER TO THIS SERVICE IS ALSO SUPPLIED FROM THE FOLLOWING SOURCE WITH DISCONNECTS LOCATED AS SHOWN
CAUTION: MULTIPLE SOURCES OF POWER



92 MARENGO PARK, SPRINGFIELD, MA, 01108

EMPOWER ENERGY SOLUTIONS
EMMERGENCY CONTACT #
475-221-2353

NEC 705.10 & 690.56 (A)(B)



EAGLE
MODULES

THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE® 54 G6R

420-440 WATT • N-TYPE TOPCON

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

KEY FEATURES



Superior Aesthetics

Black backsheet and black frame create ideal look for residential applications.



N-Type Technology

N-type cells with Jinko's in-house TOPCon technology offers better performance and improved reliability.



Thick and Tough

Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.



Shade Tolerant

Twin array design allows continued performance even with shading by trees or debris.



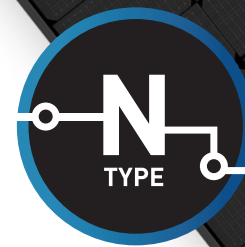
Protected Against All Environments

Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.



Warranty

25-year product and 30-year linear power warranty.



- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- IEC61215, IEC61730 certified products

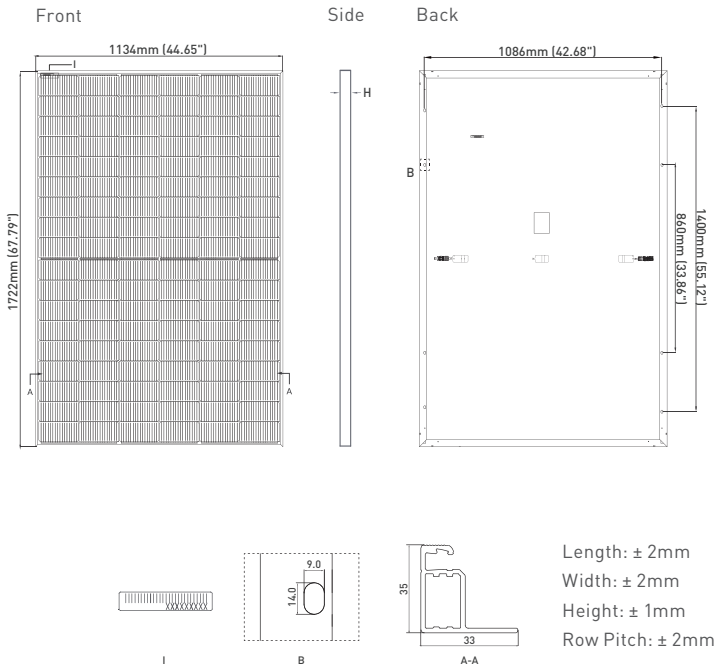
- ISO45001:2018 Occupational Health & Safety Standards
- UL61730 certified products



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ENGINEERING DRAWINGS



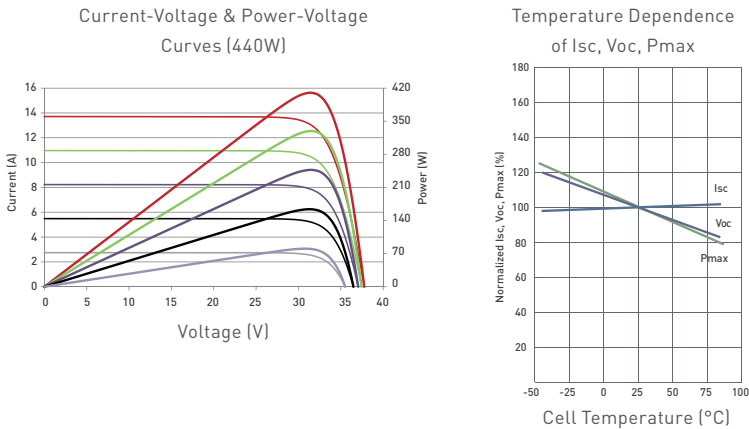
MECHANICAL CHARACTERISTICS

No. of Half Cells	108 (2 x 54)
Dimensions	1722 × 1134 × 35mm (67.79 × 44.65 × 1.38 inch)
Weight	22.0kg (48.5lbs)
Front Glass	3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated
Output Cables	12 AWG, 1400mm (55.12in) or Customized Length
Connector	Staubli MC4
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.045%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



MAXIMUM RATINGS

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	25A

PACKAGING CONFIGURATION

(Two pallets = One stack)
31pcs/pallets, 62pcs/stack, 806pcs/40 HQ Container

WARRANTY

25-year product and 30-year linear power warranty

1st year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.

ELECTRICAL CHARACTERISTICS

Module Type	JKM420N-54HL4-B		JKM425N-54HL4-B		JKM430N-54HL4-B		JKM435N-54HL4-B		JKM440N-54HL4-B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power [Pmax]	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage [Vmp]	32.16V	29.95V	32.37V	30.19V	32.58V	30.30V	32.78V	30.50V	32.99V	30.73V
Maximum Power Current [Imp]	13.06A	10.55A	13.13A	10.60A	13.20A	10.66A	13.27A	10.72A	13.34A	10.77A
Open-circuit Voltage [Voc]	38.74V	36.80V	38.95V	37.00V	39.16V	37.20V	39.36V	37.39V	39.57V	37.59V
Short-circuit Current [Isc]	13.51A	10.91A	13.58A	10.96A	13.65A	11.02A	13.72A	11.08A	13.80A	11.14A
Module Efficiency STC (%)	21.51%		21.76%		22.02%		22.28%		22.53%	

*STC: ☀ Irradiance 1000W/m²
NOCT: ☀ Irradiance 800W/m²

🌡 Cell Temperature 25°C
🌡 Ambient Temperature 20°C

☁ AM = 1.5
☁ AM = 1.5 🌬 Wind Speed 1m/s

*Power measurement tolerance: ±3%

The company reserves the final right for explanation on any of the information presented hereby. JKM400-420N-54HL4-B-F1-US

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Jinko Solar

SolarEdge Home Hub Inverter For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US /
SE10000H-US / SE11400H-US⁽¹⁾



HOME BACKUP

Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- Modular design, future ready with optional upgrades to:
 - DC-coupled storage for full or partial home backup
 - Built-in consumption monitoring
 - Direct connection to the SolarEdge Home EV Charger
- Multi-inverter, scalable storage solution, with enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014 – 2023, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5

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/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number	SEXxxxH-USMNBbxxx / SEXxxxH-USSNBbxxx						Units	
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US		
OUTPUT – AC ON GRID								
Rated AC Power	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W	
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208	W	
AC Output Voltage (Nominal)	208 / 240						Vac	
AC Output Voltage (Range)	183 – 264						Vac	
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾						Hz	
Maximum Continuous Output Current @ 240V	16	24	25	32	42	47.5	A	
Maximum Continuous Output Current @ 208V	16	24	24	-	-	48	A	
GFDI Threshold	1						A	
Total Harmonic Distortion (THD)	< 3						%	
Power Factor	1, adjustable -0.85 to 0.85							
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes							
Charge Battery from AC (if allowed)	Yes							
Typical Nighttime Power Consumption	< 2.5						W	
OUTPUT – AC BACKUP⁽³⁾								
Rated AC Power in Backup Operation ⁽⁴⁾	7600	5760	6000	7600 11400*	10000 11400*	11400	W	
AC L-L Output Voltage Range in Backup	211 – 264						Vac	
AC L-N Output Voltage Range in Backup	105 – 132						Vac	
AC Frequency Range in Backup (min - nom - max)	55 – 60 – 65						Hz	
Maximum Continuous Output Current in Backup Operation	32	24	25	32 47.5	42 47.5	47.5	A	
GFDI	1						A	
THD	< 5						%	
OUTPUT – SOLAREEDGE HOME EV CHARGER AC								
Rated AC Power	9600						W	
AC Output Voltage Range	211 – 264						Vac	
On-Grid AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5						Hz	
Maximum Continuous Output Current @240V (grid, PV and battery)	40						Aac	
INPUT – DC (PV AND BATTERY)								
Transformer-less, Ungrounded	Yes							
Max Input Voltage	480						Vdc	
Nom DC Input Voltage	380						Vdc	
Reverse-Polarity Protection	Yes							
Ground-Fault Isolation Detection	600kΩ Sensitivity							
INPUT – DC (PV)								
Maximum DC Power @ 240V	7600	11520	12000	15200	20000	22800	W	
Maximum DC Power @ 208V	6600	10000	10000	-	-	20000	W	
Maximum Input Current ⁽⁵⁾ @ 240V	20	16	16.5	20 30	30	30	Adc	
Maximum Input Current ⁽⁵⁾ @ 208V	9	13.5	13.5	-	-	27	Adc	
Max. Input Short Circuit Current	45							
Maximum Inverter Efficiency	99.2						%	
CEC Weighted Efficiency	99						99 @ 240V 98.5 @ 208V	%
2-pole Disconnection	Yes							

* Supported with PN SExxxH-USMNBbxxx.

(1) These specifications apply to inverters with part numbers SExxxH-USMNBbxxx or SExxxH-USSNBbxxx and connection unit model number DCD-1PH-US-PxH-F-x.

(2) For other regional settings please contact SolarEdge support.

(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid.

(4) Rated AC power in Backup Operation is valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated.

(5) A higher current source may be used; the inverter will limit its input current to the values stated.

/ SolarEdge Home Hub Inverter

For North America

SE3800H-US / SE5700H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

Applicable to inverters with part number	SEXXXXH-USMNBXXX / SEXXXXH-USSNBXXX					Units
	SE3800H-US	SE5700H-US	SE6000H-US	SE7600H-US	SE10000H-US	
OUTPUT – DC (BATTERY)						
Supported Battery Types	SolarEdge Home Battery, LG RESU Prime					
Number of Batteries per Inverter	Up to 3 SolarEdge Home Battery, up to 2 LG RESU Prime					
Continuous Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11400	11400 @ 240V 10000 @ 208V	W
Peak Power ⁽⁶⁾	7600 @ 240V 3800 @ 208V	5760 @ 240V 5000 @ 208V	6000	11400	11400 @ 240V 10000 @ 208V	W
Max Input Current	20	26.5				Adc
2-pole Disconnection	Up to inverter rated backup power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁷⁾					
Backup & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters					
EV Charging	Direct connection to SolarEdge Home EV Charger					
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ^(8, 9) , Wi-Fi ⁽⁹⁾ , SolarEdge Home Network					
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁷⁾					
Integrated AC, DC and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014 – 2023 per article 690.11 and 690.12					
STANDARD COMPLIANCE						
Safety	UL1741, UL1741 SA, UL1741 SB, UL1741 PCS, UL1699B, UL1998, UL9540, CSA 22.2					
Grid Connection Standards	IEEE1547-2018, Rule 21, Rule 14H, CSA C22.3 No. 9					
Emissions	FCC part 15 class B					
INSTALLATION SPECIFICATIONS						
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14-4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14-6 AWG					
Dimensions with Connection Unit (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174	17.7 x 14.6 x 6.8 / 450 x 370 x 174**	21.06 x 14.6 x 7.3 / 535 x 370 x 185**	21.06 x 14.6 x 8.2 / 535 x 370 x 208***		in / mm
Weight with Connection Unit	30.8 / 14	30.8 / 14**	41.7 / 18.9**	44.9 / 20.3***		lb / kg
Noise	< 50					dBA
Cooling	Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁰⁾					*F / °C
Protection Rating	NEMA 4X					

** Supported with PN SEXXXXH-USSNBXXX4 or SEXXXXH-USMNBXXX4.

*** Supported with PN SEXXXXH-USSNBXXX5 or SEXXXXH-USMNBXXX5.

(6) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications, as well as up to the installed batteries' rating.

(7) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering.

(8) Information concerning the Data Plan's terms & conditions is available in the following link: [SolarEdge Communication Plan Terms and Conditions](#).





(9) The part number SEXXXXH-USXNBXXX only supports the Wi-Fi communication interface, and the part number SEXXXXH-USXNBXXX only supports the cellular communication interface.

(10) Full power up to at least 50°C / 122°F; for power de-rating information refer to the [Temperature Derating Technical Note for North America](#).

SolarEdge is a global leader in smart energy technology. By leveraging world-class engineering capabilities and with a relentless focus on innovation, SolarEdge creates smart energy solutions that power our lives and drive future progress.

SolarEdge developed an intelligent inverter solution that changed the way power is harvested and managed in photovoltaic (PV) systems. The SolarEdge DC optimized inverter maximizes power generation while lowering the cost of energy produced by the PV system.

Continuing to advance smart energy, SolarEdge addresses a broad range of energy market segments through its PV, storage, EV charging, UPS, and grid services solutions.

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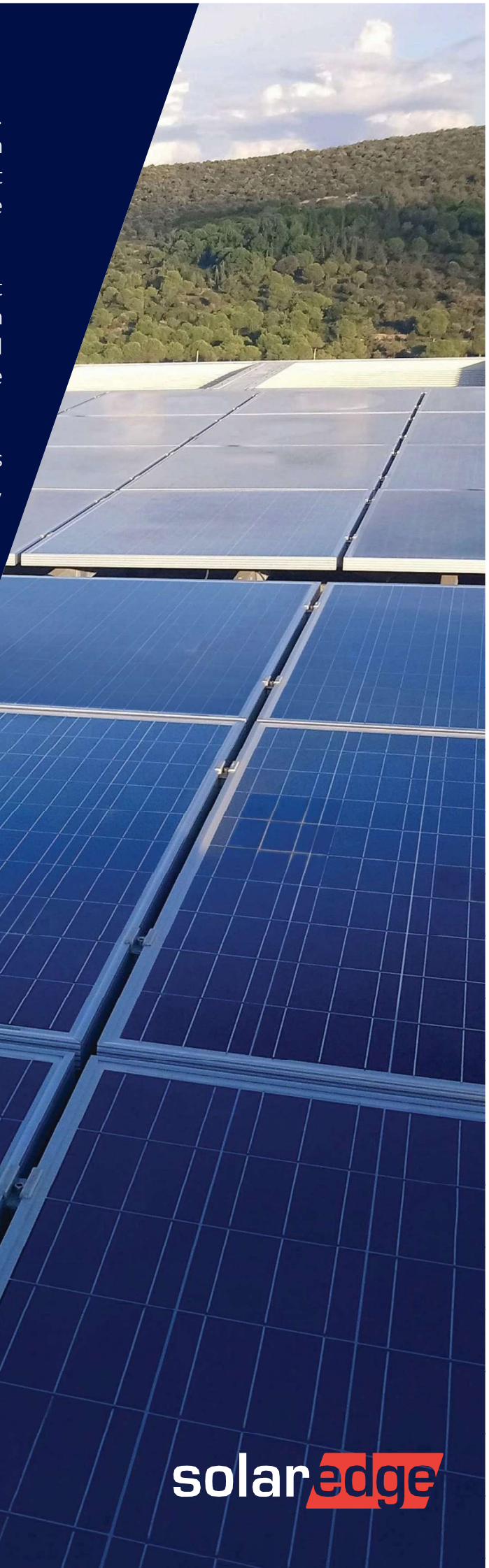
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Cautionary Note Regarding Market Data and Industry Forecasts: This brochure may contain market data and industry forecasts from certain third-party sources. This information is based on industry surveys and the preparer's expertise in the industry and there can be no assurance that any such market data is accurate or that any such industry forecasts will be achieved. Although we have not independently verified the accuracy of such market data and industry forecasts, we believe that the market data is reliable and that the industry forecasts are reasonable.



solaredge



Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B



POWER OPTIMIZER

Enabling PV power optimization at the module level

- Specifically designed to work with SolarEdge residential inverters
- Mitigates all types of module mismatch loss, from manufacturing tolerance to partial shading
- Detects abnormal PV connector behavior, preventing potential safety issues*
- Faster installations with simplified cable management and easy assembly using a single bolt
- Module-level voltage shutdown for installer and firefighter safety
- Flexible system design for maximum space utilization
- Superior efficiency (99.5%)
- Compatible with bifacial PV modules

* Functionality subject to inverter model and firmware version

/ Power Optimizer

For Residential Installations

S440 / S500 / S500B / S650B

	S440	S500	S500B	S650B	UNIT
INPUT					
Rated Input DC Power ⁽¹⁾	440	500		650	W
Absolute Maximum Input Voltage (Voc)	60		125	85	Vdc
MPPT Operating Range	8 – 60		12.5 – 105	12.5 - 85	Vdc
Maximum Short Circuit Current (Isc) of Connected PV Module	14.5	15			Adc
Maximum Efficiency			99.5		%
Weighted Efficiency			98.6		%
Oversoltage Category			II		
OUTPUT DURING OPERATION					
Maximum Output Current			15		Adc
Maximum Output Voltage	60		80		Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM INVERTER OR INVERTER OFF)					
Safety Output Voltage per Power Optimizer			1 ± 0.1		Vdc
STANDARD COMPLIANCE⁽²⁾					
EMC	FCC Part 15 Class B, IEC61000-6-2, IEC61000-6-3, CISPR11, EN-55011				
Safety	IEC62109-1 (class II safety), UL1741				
Material	UL94 V-0, UV Resistant				
RoHS	Yes				
Fire Safety	VDE-AR-E 2100-712:2018-12				
INSTALLATION SPECIFICATIONS					
Maximum Allowed System Voltage			1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30		129 x 165 x 45		mm
Weight	720		790		gr
Input Connector	MC4 ⁽³⁾				
Input Wire Length	0.1				m
Output Connector	MC4				
Output Wire Length	(+) 2.3, (-) 0.10				m
Operating Temperature Range ⁽⁴⁾	-40 to +85				°C
Protection Rating	IP68				
Relative Humidity	0 – 100				%

(1) Rated power of the module at STC will not exceed the Power Optimizer Rated Input DC Power. Modules with up to +5% power tolerance are allowed.

(2) For details about CE compliance, see Declaration of Conformity – CE.

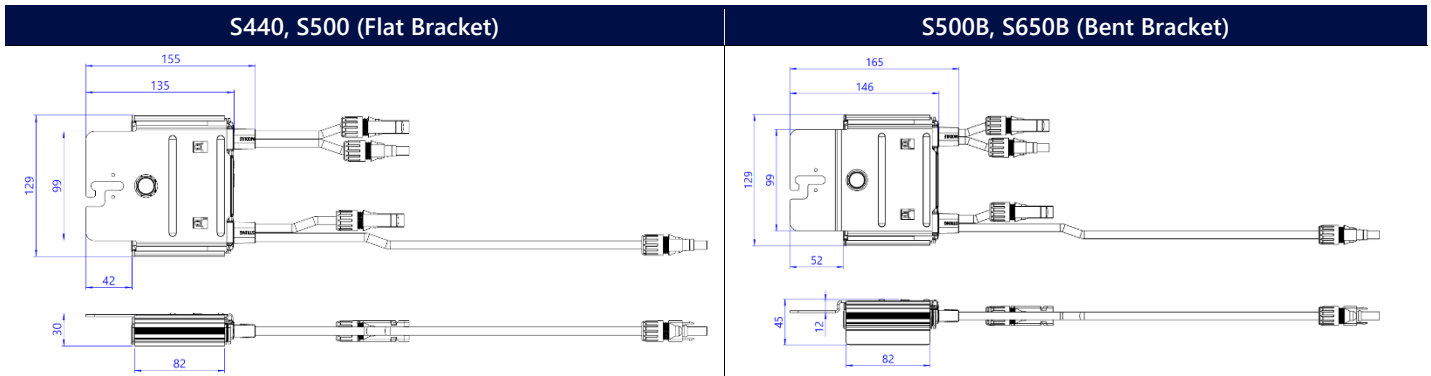
(3) For other connector types please contact SolarEdge.

(4) Power de-rating is applied for ambient temperatures above +85°C for S440 and S500, and for ambient temperatures above +75°C for S500B. Refer to the Power Optimizers Temperature De-Rating Technical Note for details.

PV System Design Using a SolarEdge Inverter ⁽⁵⁾	SolarEdge Home Wave Inverter Single Phase	SolarEdge Home Short String Inverter Three Phase	Three Phase for 230/400V Grid	Three Phase for 277/480V Grid	
Minimum String Length (Power Optimizers)	S440, S500 S500B, S650B	8 6	9 8	16 14	18
Maximum String Length (Power Optimizers)		25	20	50	
Maximum Continuous Power per String		5700	5625	11250	12750
Maximum Allowed Connected Power per String (Permitted only when the power difference between strings is less than 2,000W)		See ⁽⁶⁾	See ⁽⁶⁾	13500	15000
Parallel Strings of Different Lengths or Orientations	Yes				

(5) It is not allowed to mix S-series and P-series Power Optimizers in new installations.

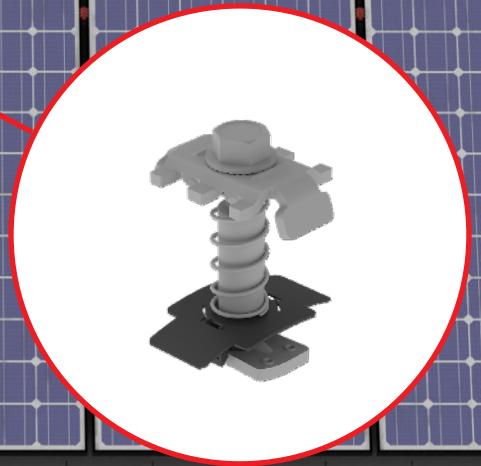
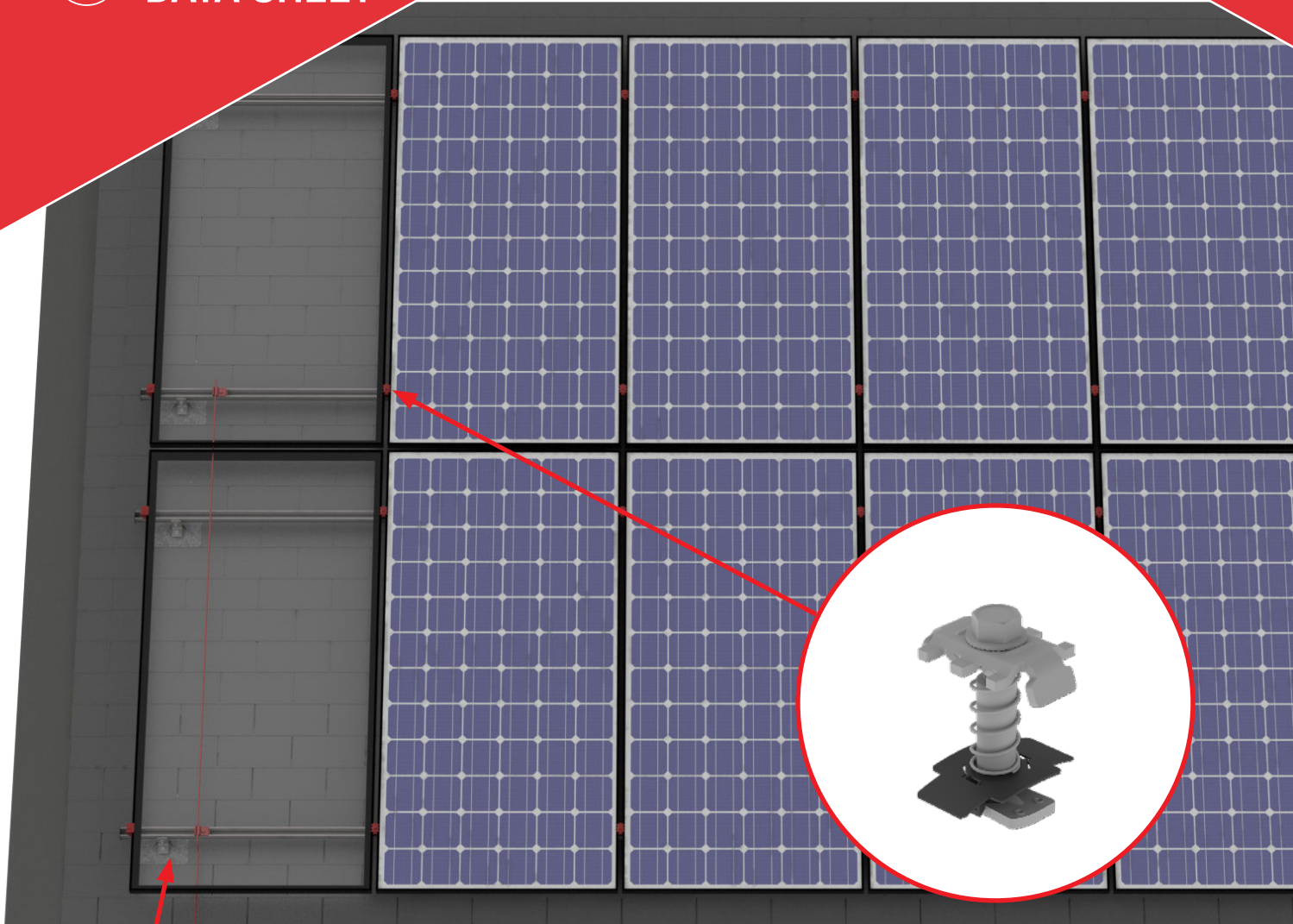
(6) If the inverter's rated AC power ≤ maximum nominal power per string, then the maximum power per string will be able to reach up to the inverter's maximum input DC power. Refer to Application Note: Single String Design Guidelines.



CrossRail System

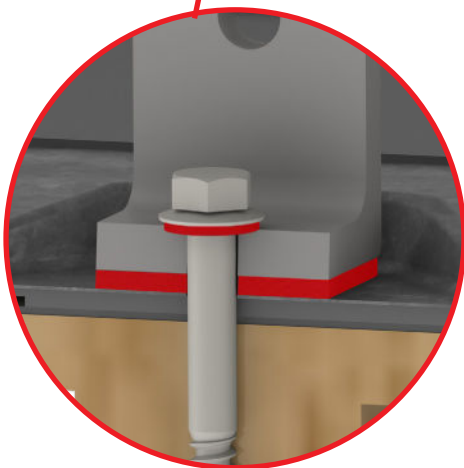


DATA SHEET



In-Rail Wire Management

- / 4 open channel rail types available
- / Wires help with clamps and wire management clips
- / 3 clip types available



K2 Flash Comp Kit Waterproofing

- / Water Shield redirects water away from penetration
- / K2 EverSeal preassembled on L-Foot
- / EPDM backed sealing washing on lag screw

PRODUCT FEATURES

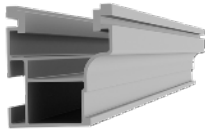


- / High quality, German-engineered system for residential and commercial installations
- / 4 rail sizes available to suit all structural conditions
- / Universal components for all rail types
- / Use 2 innovative components to turn this system into Shared Rail or Tilt Up
- / MK3 technology provides highest rail engagement
- / Roof attachments for all roof types
- / 100% code compliant, structural validation for all solar states
- / Fast installation with minimal component count result in low total installed cost

TECHNICAL DATA

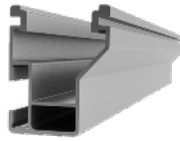
	CrossRail System
Roof Type	Composition shingle, tile, standing seam, corrugated metal, trapezoidal metal
Material	High corrosion resistance stainless steel and high grade aluminum
Flexibility	Modular construction, suitable for any system size, height adjustable
PV Modules	For all common module types
Module Orientation	Portrait and landscape
Roof Connection	Rafter or deck connection depending on selected roof attachment
Structural Validity	IBC compliant, stamped engineering letters available for all solar states
Certifications	UL 2703, ASCE 7-16, Class A Fire Rating
Warranty	25 years

Components



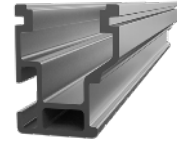
CrossRail 44-X

Part Number	Description
4000019	CrossRail 44-X, 166", Mill
4000020	CrossRail 44-X, 166", Dark
4000021	CrossRail 44-X, 180", Mill
4000022	CrossRail 44-X, 180", Dark



CrossRail 48-X

Part Number	Description
4000662	CrossRail 48-X, 166", Mill
4000663	CrossRail 48-X, 166", Dark



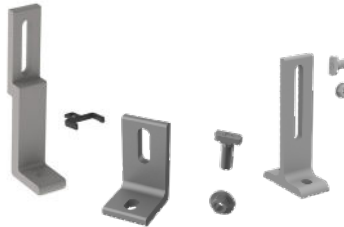
CrossRail 48-XL

Part Number	Description
4000695	CrossRail 48-XL, 166", Mill
4000705	CrossRail 48-XL, 166", Dark



CrossRail 80

Part Number	Description
4000508	CrossRail 80 168" Rail Mill



L-Foot & T-Foot

Part Number	Description
4000630	L-Foot Slotted Set, Mill
4000631	L-Foot Slotted Set, Dark
4000080	T-Foot X 6" Kit, Mill
4000218	Big Foot 6" w/3" + Chem Link Clip Kit



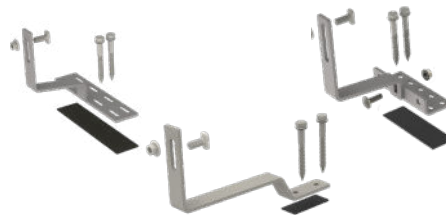
K2 Metal Flashings

Part Number	Description
4000156	K2 Flash Comp Kit, Mill
4000157	K2 Flash Comp Kit, Dark



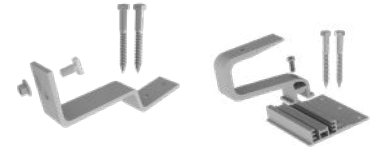
Splice Foot X & XL

Part Number	Description
4000131	Splice Foot X, Set, Mill
4000162	Splice Foot XL, Set, Mill
4000115	Splice Foot Screw, m5x60



EverSeal Tile Hooks

Part Number	Description
4000140-B	USH, 9", Bake Kit, w/Butyl
4000141-B	Flat Tile Hook X Kit, w/Butyl
4000142-B	USH +2, 5.5" Base Kit, w/Butyl



Standard Tile Hooks

Part Number	Description
4000034	Flat Tile Hook Set, w/Lags
4001294	Tile Hook 3S Wide Base w/Hardware
4000140	Universtal Standard Hook 9" Base Kit
4000141	Flat Tile Hook X, Kit
4000142	Universal Standard Hook +2, 5.5" Base, Kit



Standing Seam PowerClamps

Part Number	Description
4000016	Standing Seam PowerClamp, Mini, Set
4000017	Standing Seam PowerClamp, Standard, Set



Corrugated Power Clamp, Kit

Part Number	Description
4000307	Corrugated PowerClamp, Kit



Trapezoidal Power Clamp, Kit

Part Number	Description
4000308	Trapezoidal PowerClamp, Kit



Yeti Clamp

Part Number	Description
4000050-H	Yeti Hidden EC for CR, 13mm Hex Set



K2 Mid Clamp

Part Number	Description
4000601-H	CR MC Silver, 30-47mm, 13mm Hex
4000602-H	CR MC Dark, 30-47mm, 13mm Hex
4000688-H	CR MC Silver, 40-50mm, 13mm Hex
4000689-H	CR MC Dark, 40-50mm, 13mm Hex



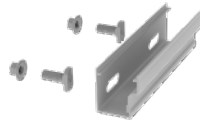
K2 End Clamp

Part Number	Description
4000090	CR EC Silver, 30-40mm
4000091	CR EC Dark, 30-40mm
4000092	CR EC Silver, 40-47mm
4000093	CR EC Dark, 40-47mm



Bonding & Grounding

Part Number	Description
4000629-H	CR Microinverter & Opt, 13mm Hex Kit
4000006-H	Everest Ground Lug, 13mm Hex
4000083	MLPE, Module Frame Mount, Kit



CrossRail Rail Connector

Part Number	Description
4000051	Rail Connector CR 44-X, Set, Mill
4000052	Rail Connector CR 44-X, Set, Dark
4000385	RailConn CR48-X,48-XL Struct Set, Mill
4000386	RailConn CR48-X,48-XL Struct Set, Dark
4001196	Rail Connector UL 2703 Set, CR80, Mill



End Caps

Part Number	Description
4000176	EndCap 44-X, K2
4000431	CrossRail Flat EndCap, CR 48-X, 48-XL
4001221	EndCap, Black, CR80



Wire Management

Part Number	Description
4000069	Wire Management Clip, TC
4000382	HEYClip SunRunner Cable Slip SS, S6404
4005394	Wire Management Clip, Omega, Black

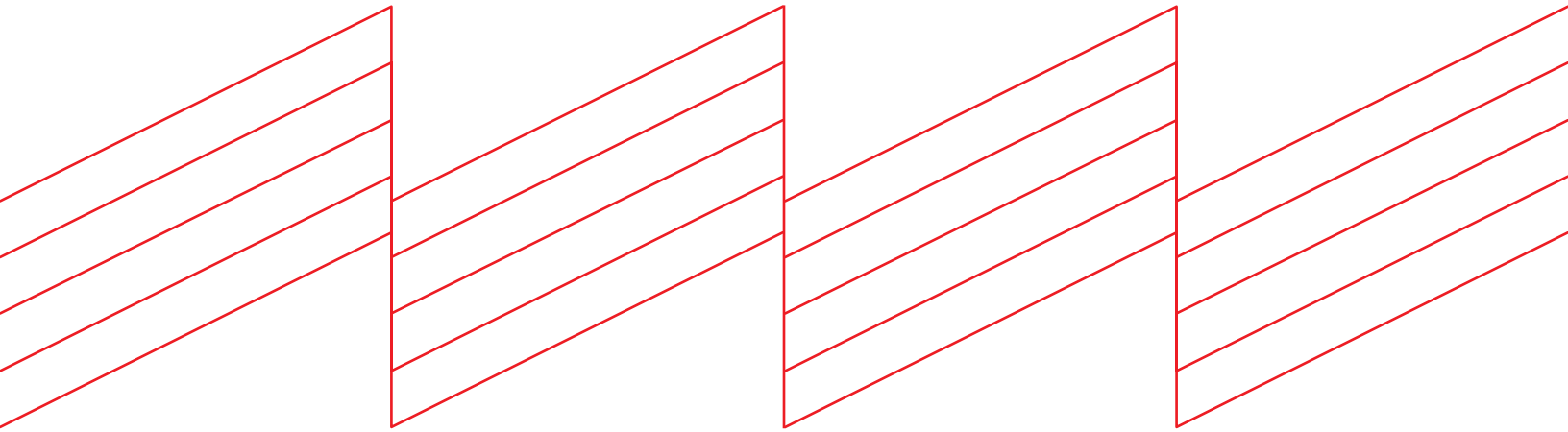


CR 48-X/48-XL Sleeve

Part Number	Description
4000177	Sleeve CR 44-X
4000583	CrosRail 3" Black Sleeve 48-X, 48-XL



Connecting Strength



K2 Systems, LLC

4665 North Ave. Suite I • Oceanside, CA 92056 •
USA +1.760.301.5300 • infous@k2-systems.com
www.k2-systems.com

CrossRail System Data Sheet V10 | 0323 • Subject to change
Product illustrations are exemplary and may differ from the original.

RT-MINI

Self-flashing base for asphalt & metal roof-top PV mounting systems

RT-MINI is suitable for mounting any rail system with a conventional L-Foot.



Dual bolt design: M8 or 5/16" for L-Foot & 1/4" for EMC



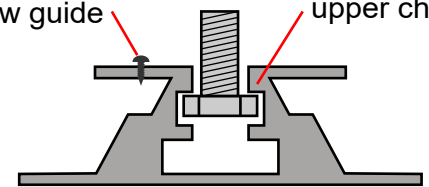
Installation Manual



ICC ESR 3575

Easy tapping screw guide

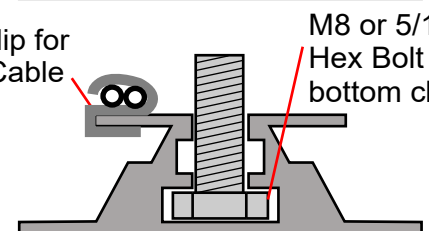
1/4" Hex Bolt upper channel



Flat lip for PV Cable clips

M8 or 5/16"

Hex Bolt bottom channel



 Roof Tech

The Standard for Waterproof Flexible Flashing Since 1994
www.roof-tech.us info@roof-tech.us

RT-MINI

Flexible Flashing certified by the International Code Council (ICC)

Engineered to ASTM D 1761 (Standard Test Methods for Mechanical Fasteners in Wood)

Components

RT2-00-MINIBK



MINI base : 20 ea.

Screw : 40 ea.

Extra RT-Butyl : 10 ea.

Optional item

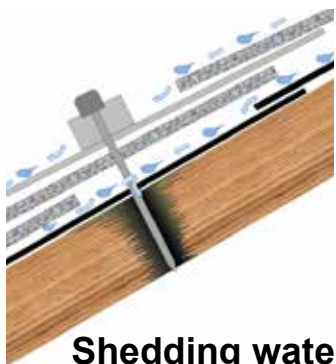
5 x 60mm Mounting screw (RT2-04-SD5-60) : 100 ea./Bag

5/16" Hex bolt, washer & nut set (RT-04-BN30SL-US) : 100 ea./Bag

RT-Butyl (RT2-04-BUTYLT) : 10 ea./Box

RT-Butyl is Roof Tech's flexible flashing used in one million residential PV systems for the last 26 years. It is the first PV mounting system with Flexible Flashing certified by the ICC. Engineered to withstand wind speeds up to 180 mph and ground snow up to 90 psf.

Metal Flashing Retrofit Flexible Flashing

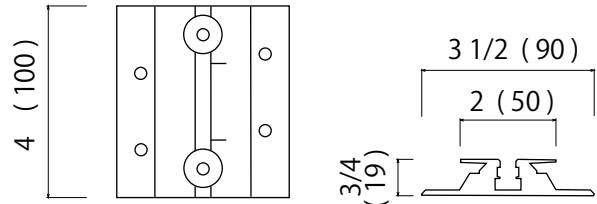


Shedding water? **100% Waterproof**

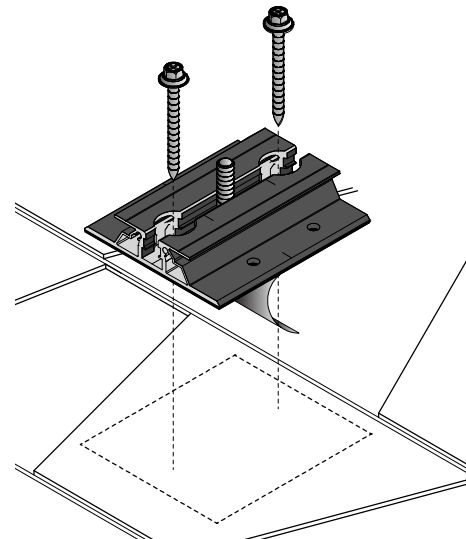
ICC ESR-3575 ASTM2140 testing UV testing (7500 hrs.)



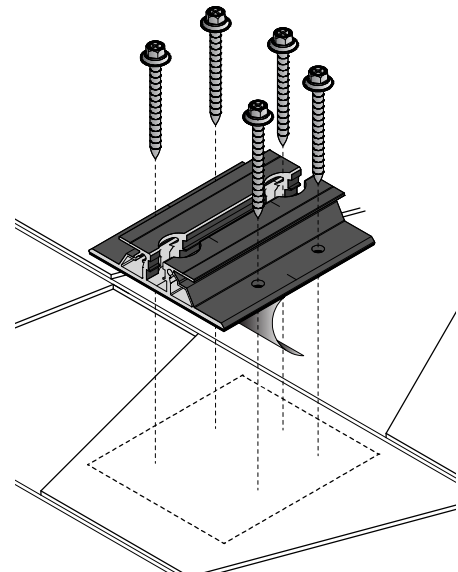
Dimensions in (mm)



Rafter installation



Deck installation



P.E. Stamped Letters available at www.roof-tech.us/support
TAS 100 A on metal and asphalt roof.

Roof Tech Inc.

www.roof-tech.us

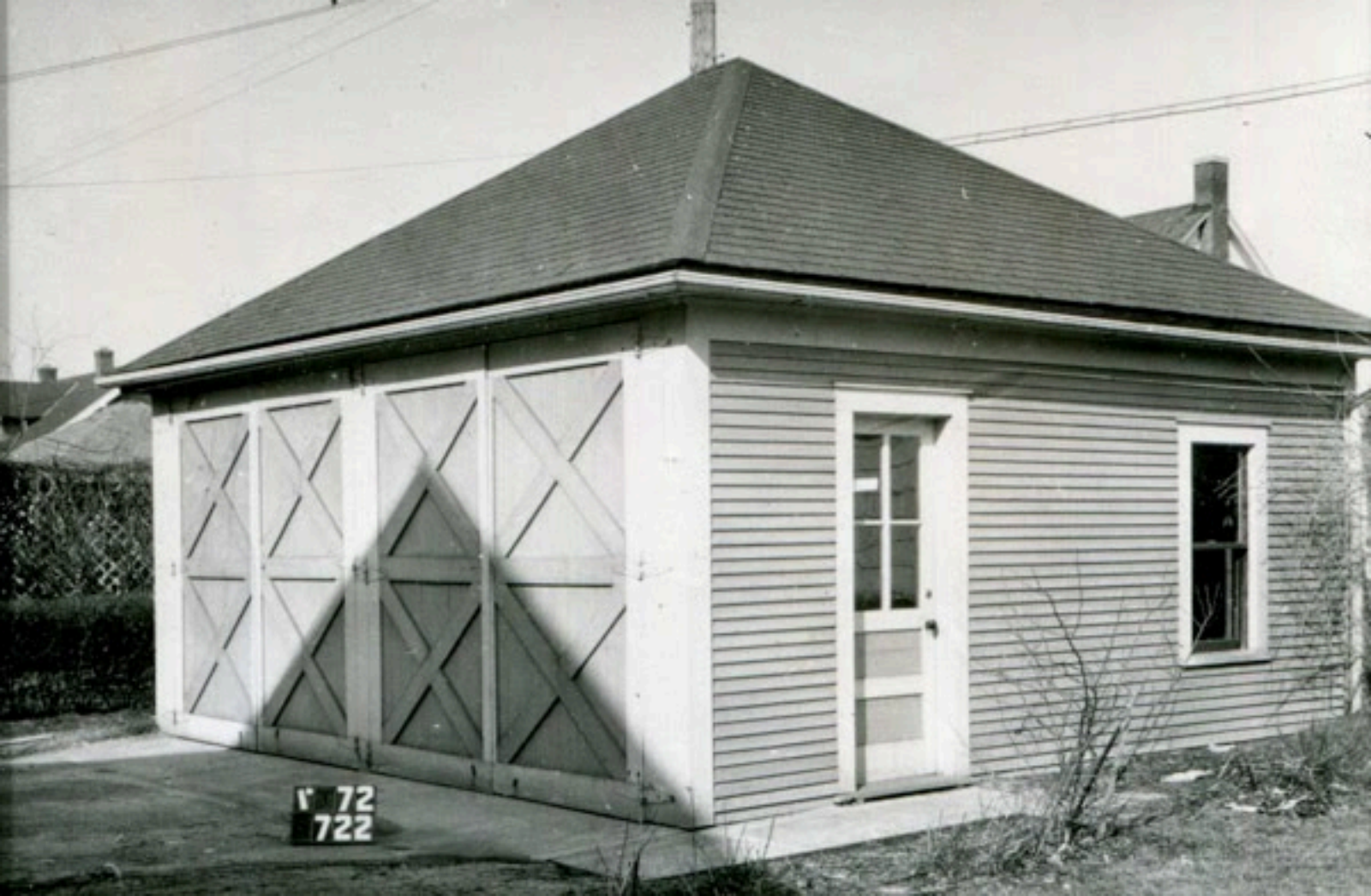
info@roof-tech.us

10620 Trenea Street, Suite 230, San Diego, CA 92131

858.935.6064

March 2020





72
722





Google Maps



2025-10-30 12:13:39 EDT

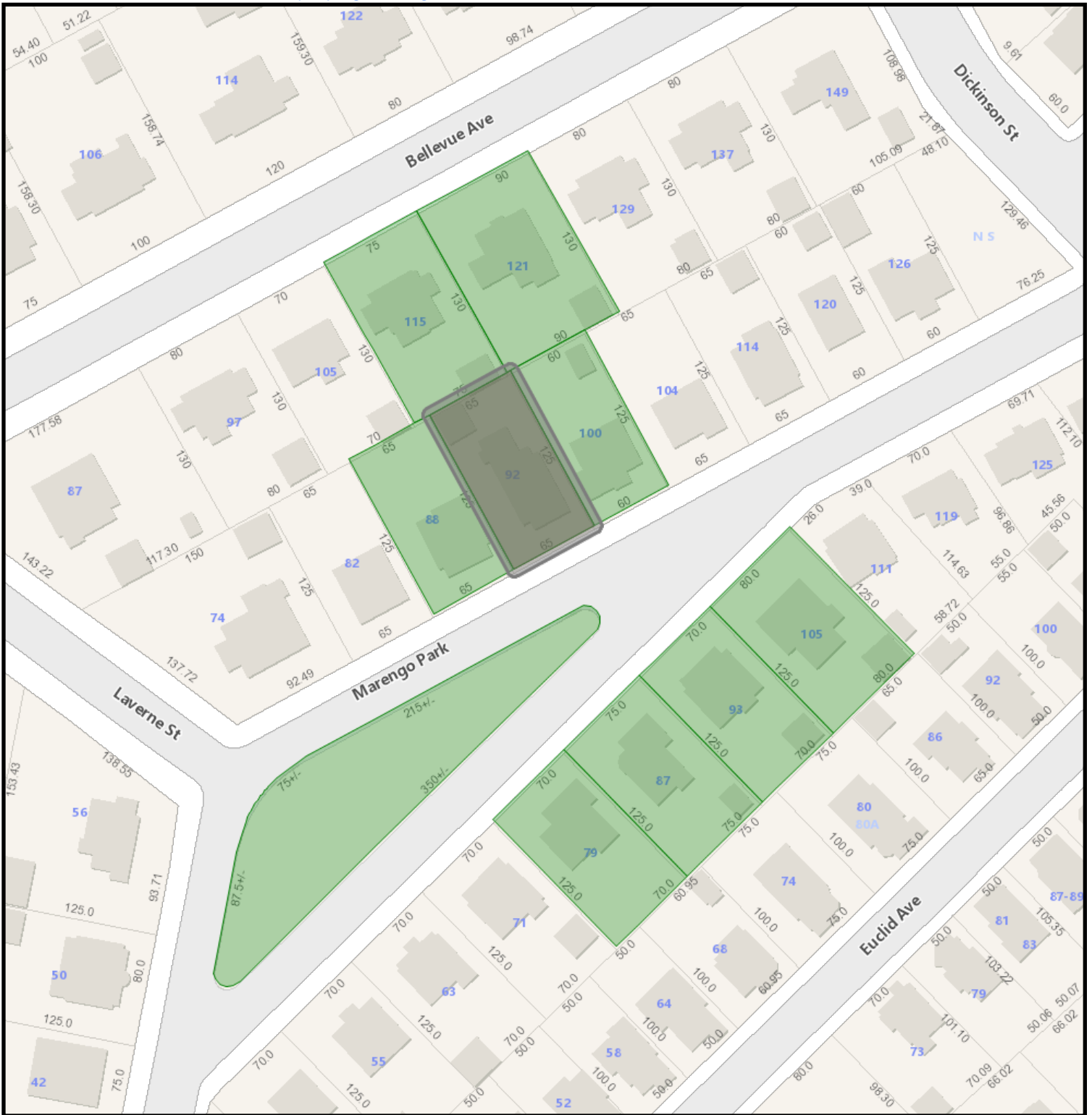


Basil Ellis
Loc: 42.0907, -72.5688

2025-10-30 12:12:49 EDT



Basil Ellis
Loc: 42.0906, -72.5686



92 Marengo Park GIS Map

12/3/2025 12:09:40 PM

Scale: 1"=100'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

012250051
ALI HASSAN
115 BELLEVUE AVE
SPRINGFIELD, MA 01108

082500031
HALL MICHAEL A & JESSICA L
87 MARENGO PARK
SPRINGFIELD, MA 01108

082500016
JONES MARK & ADELAIDA
100 MARENGO PARK
SPRINGFIELD, MA 01108

082500030
LABOY LUIS A
93 MARENGO PK
SPRINGFIELD, MA 01108

012250049
MORALES LISSETTE & DIAZ
121 BELLEVUE AVE
SPRINGFIELD, MA 01108

082500015
MORRIS JOE E & IDA W
92 MARENGO PARK
SPRINGFIELD, MA 01108

082500022
SPRINGFIELD CITY OF
36 COURT ST
SPRINGFIELD, MA 01103

082500014
SWEENEY ROBERT D &
88 MARENGO PARK
SPRINGFIELD, MA 01108

082500029
THOMAS HENRY M III &
105 MARENGO PARK
SPRINGFIELD, MA 01108

082500032
WHITE MARY E TR &
79 MARENGO PARK
SPRINGFIELD, MA 01108



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 30 SpruceLand Avenue

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. If available, please bring physical samples of the product to the meeting date.



LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: Forest Park Heights	DECISION:
DATE RECEIVED: December 11, 2025	DECISION DATE:
HEARING DATE: December 18, 2025	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: December 4, 2025	WAIVED BY COMMISSION:
DATE NOTICE MAILED: December 4, 2025	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 30 Spruceleaf Avenue

APPLICATION TYPE (Select Application Type)

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 30 Spruceland Ace, Springfield, MA 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Ruth Mahoney		
OWNER ADDRESS: <input checked="" type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: (413) 297-3487	REPRESENTATIVE/CONTRACTOR NAME: Lauren Hirth	
OWNER EMAIL ADDRESS: rkniskamahoney@gmail.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: (413) 584-8844	
PROPERTY CODE: 11065-0008	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: permits@valleysolar.solar	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Installation of a 33 panel roof-mounted solar array, system size 14.19 kW DC.		PROPOSED MODIFICATIONS (Please check all that apply) <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input checked="" type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Ruth Mahoney
PROPERTY OWNER'S SIGNATURE

03/12/2025
DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):	box gable	no change
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	asphalt shingles	no change

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:

Roof is in excellent condition, will not need to be replaced ahead of solar installation.

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:

No replacement necessary.

ADDITIONAL INFORMATION:

We will be adding 33 Jinko-brand solar panels to either side of the roof, perpendicular to the street, in two groups. The first group of 18 panels will be installed at a pitch of 37 degrees and an azimuth of 81 degrees. The second group of 15 panels will be installed at a pitch of 37 degrees and an azimuth of 261 degrees.

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

YES (PLEASE PROVIDE MORE INFO ABOVE)
No

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	asphalt shingles
NUMBER OF SOLAR POWERED PANELS:	33
SOLAR MANUFACTURER:	Jinko Solar
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	East and west sides of the roof
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	west side of house
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	inverters installed inside of house
LOCATION OF CONDUIT (e.g. side of building, inside the house):	back of house
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	grey






Mahoney, Ruth historical commission doc

Final Audit Report

2025-12-04

Created:	2025-12-03
By:	Lauren Hirth (lhirth@valleysolar.solar)
Status:	Signed
Transaction ID:	CBJCHBCAABAAjP_w1-GhiZXLxRiMI_jU0IM_zYye8lh

"Mahoney, Ruth historical commission doc" History

-  Document created by Lauren Hirth (lhirth@valleysolar.solar)
2025-12-03 - 8:51:40 PM GMT
-  Document emailed to Ruth Mahoney (rkniskamahoney@gmail.com) for signature
2025-12-03 - 8:51:46 PM GMT
-  Email viewed by Ruth Mahoney (rkniskamahoney@gmail.com)
2025-12-04 - 1:15:46 AM GMT
-  Document e-signed by Ruth Mahoney (rkniskamahoney@gmail.com)
Signature Date: 2025-12-04 - 1:16:59 AM GMT - Time Source: server
-  Agreement completed.
2025-12-04 - 1:16:59 AM GMT



Scott E. Wyssling, PE
Heath J. Harpster, PE, P.Eng
Gregory T. Elvestad, PE

76 North Meadowbrook Drive
Alpine, UT 84004
office (201) 874-3483
swyssling@wysslingconsulting.com

November 17, 2025

Greenlancer Energy Inc.
500 Woodward Avenue, Suite 2125
Detroit, MI 48226

Re: Engineering Services
Mahoney Residence
30 Spruceland Avenue, Springfield MA
14.190 kW System

To Whom It May Concern:

We have received information regarding solar panel installation on the roof of the above referenced structure. Our evaluation of the structure is to verify the existing capacity of the roof system and its ability to support the additional loads imposed by the proposed solar system.

A. Site Assessment Information

1. Site visit documentation identifying attic information including size and spacing of framing for the existing roof structure.
2. Design drawings of the proposed system including a site plan, roof plan and connection details for the solar panels. This information will be utilized for approval and construction of the proposed system.

B. Description of Structure:

Roof Framing: Rough sawn 2x6 dimensional lumber at 24" on center with knee wall support.
Roof Material: Composite Asphalt Shingles
Roof Slope: 37 degrees
Attic Access: Accessible
Foundation: Permanent

C. Loading Criteria Used

- **Dead Load**
 - Existing Roofing and framing = 7 psf
 - New Solar Panels and Racking = 3 psf
 - TOTAL = 10 PSF
- **Live Load** = 20 psf (reducible) – 0 psf at locations of solar panels
- **Ground Snow Load** = 35 psf
- **Wind Load** based on ASCE 7-16
 - Ultimate Wind Speed = 115 mph (based on Risk Category II)
 - Exposure Category C

Analysis performed of the existing roof structure utilizing the above loading criteria is in accordance with the 2021 IRC. This analysis indicates that the existing framing will support the additional panel loading without damage, if installed correctly.

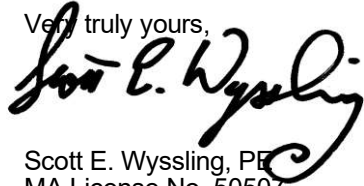
D. Solar Panel Anchorage

1. The solar panels shall be mounted in accordance with the most recent Ironridge installation manual. If during solar panel installation, the roof framing members appear unstable or deflect non-uniformly, our office should be notified before proceeding with the installation.
2. The maximum allowable withdrawal force for a $\frac{5}{16}$ " lag screw is 229 lbs per inch of penetration as identified in the National Design Standards (NDS) of timber construction specifications. Based on a minimum penetration depth of $2\frac{1}{2}$ ", the allowable capacity per connection is greater than the design withdrawal force (demand). Considering the variable factors for the existing roof framing and installation tolerances, the connection using one $\frac{5}{16}$ " diameter lag screw with a minimum of $2\frac{1}{2}$ " embedment will be adequate and will include a sufficient factor of safety.
3. Considering the wind speed, roof slopes, size and spacing of framing members, and condition of the roof, the panel supports shall be placed no greater than 48" on center.

Based on the above evaluation, this office certifies that with the racking and mounting specified, the existing roof system will adequately support the additional loading imposed by the solar system. This evaluation is in conformance with the 2021 IRC, current industry standards, and is based on information supplied to us at the time of this report.

Should you have any questions regarding the above or if you require further information do not hesitate to contact me.

Very truly yours,



Scott E. Wyssling, PE
MA License No. 50507
Massachusetts COA # 001629764



Wyssling Consulting, PLLC

76 N Meadowbrook Drive, Alpine UT 84004

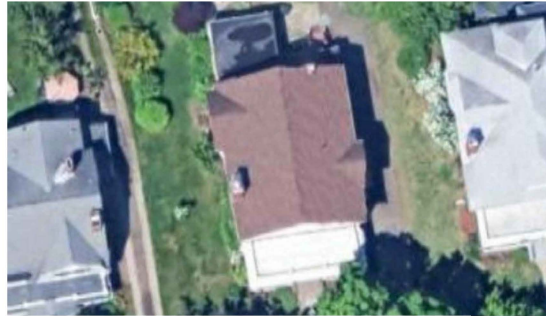
Massachusetts COA #001629764

Signed 11/17/2025

GENERAL NOTES

- 1.1.1 PROJECT NOTES:
- 1.1.2 THIS PHOTOVOLTAIC (PV) SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 690, ALL MANUFACTURERS'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION'S (AHJ) APPLICABLE CODES.
- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION
- 1.1.4 ALL PV SYSTEM COMPONENTS; MODULES, UTILITY-INTERACTIVE INVERTERS, AND SOURCE CIRCUIT COMBINER BOXES ARE IDENTIFIED AND LISTED FOR USE IN PHOTOVOLTAIC SYSTEMS AS REQUIRED BY NEC 690.4: PV MODULES: UL1703, IEC61730, AND IEC61215; AND NFPA 70 CLASS C FIRE INVERTERS: UL 1741 CERTIFIED, IEEE 1547, 929, 519 COMBINER BOX(ES): UL 1703 OR UL 1741 ACCESSORY
- 1.1.5 MAX DC VOLTAGE CALCULATED USING MANUFACTURER PROVIDED TEMP COEFFICIENT FOR VOC. IF UNAVAILABLE, MAX DC VOLTAGE CALCULATED ACCORDING TO NEC 690.7.
- 1.1.6 ALL INVERTERS, PHOTOVOLTAIC MODULES, PHOTOVOLTAIC PANELS, AND SOURCE CIRCUIT COMBINERS INTENDED FOR USE IN A PHOTOVOLTAIC POWER SYSTEM WILL BE IDENTIFIED AND LISTED FOR THE APPLICATION PER 690.4 (D). SHALL BE INSTALLED ACCORDING TO ANY INSTRUCTIONS FROM LISTING OR LABELING (NEC 110.3).
- 1.1.7 ALL SIGNAGE TO BE PLACED IN ACCORDANCE WITH LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- 1.2.1 SCOPE OF WORK:
- 1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE GRID-TIED PHOTOVOLTAIC SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ONSITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL THE EXTERIOR ROOF-MOUNTED PORTION OF THE PHOTOVOLTAIC SYSTEMS DETAILED IN THIS DOCUMENT.
- 1.3.1 WORK INCLUDES:
- 1.3.2 PV ROOF ATTACHMENTS - IRONRIDGE QUICKMOUNT QM-LM-01-B1
- 1.3.3 PV RACKING SYSTEM INSTALLATION - IRONRIDGE AIRE A2
- 1.3.4 PV MODULE AND INVERTER INSTALLATION - JINKO SOLAR JKM430N-54HL4-B / TESLA SOLAR INVERTER 7.6 (240V) / TESLA SOLAR INVERTER 7.6 (240V) DERATED TO 5.7
- 1.3.5 PV EQUIPMENT GROUNDING
- 1.3.6 PV SYSTEM WIRING TO A ROOF-MOUNTED JUNCTION BOXES
- 1.3.7 PV INSTALLING SYSTEM MONITORING EQUIPMENT
- 1.3.8 PV LOAD CENTERS (IF INCLUDED)
- 1.3.9 PV METERING (IF INCLUDED)
- 1.3.10 PV DISCONNECTS
- 1.3.11 PV GROUNDING ELECTRODE & BONDING TO (E) GEC
- 1.3.12 PV FINAL COMMISSIONING
- 1.3.13 (E) ELECTRICAL EQUIPMENT RETROFIT FOR PV

NEW PV SYSTEM:
14.190 kWp DC / 13.300 KWP AC
RUTH MAHONEY RESIDENCE
 30 SPRUCELAND AVENUE
 SPRINGFIELD, MA 01108
 ASSESSOR'S #: 110650008



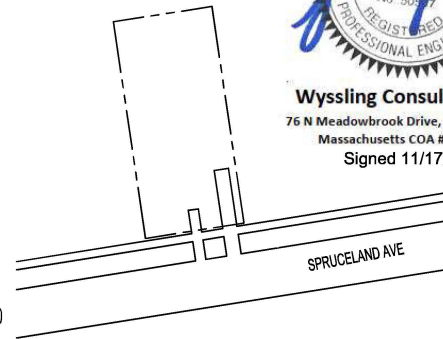
01

AERIAL PHOTO

NOT TO SCALE



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 Signed 11/17/2025



02

PLAT MAP

NOT TO SCALE

"ONE INVERTER WILL BE DERATED FROM 7.6KW AC TO 5.7 KW AC BY TESLA POWER CONTROL SYSTEMS IN COMPLIANCE WITH UL 1741 SB"

SCOPE OF WORK

SYSTEM SIZE: STC: 33X 430W = 14.190KW
 PTC: 33 X 402.9W = 13.296KW
 (33) JINKO SOLAR JKM430N-54HL4-B
 (1) TESLA SOLAR INVERTER 7.6 (240V)
 (1) TESLA SOLAR INVERTER 7.6 (240V)
 DERATED TO 5.7

- SERVICE PHASE: SINGLE
- SERVICE SIZE (AMPS): 200A
- DISTANCE FROM UTILITY METER TO TRANSFORMER: N/A.
- CONNECTIVITY TYPE: UNDERGROUND
- UTILITY METER NUMBER: # 037713462
- INVERTER: TESLA SOLAR INVERTER 7.6 (240V) / TESLA SOLAR INVERTER 7.6 (240V) DERATED TO 5.7
- PANELS: (33) JINKO SOLAR JKM430N-54HL4-B
- DC-STC RATING OF SYSTEM: 14.190 KWP
- AC SYSTEM DESIGN CAPACITY (NOMINAL): 13.300 KWP
- AC SYSTEM DESIGN CAPACITY (MAXIMUM): 13.680 KWP

ATTACHMENT TYPE: IRONRIDGE QUICKMOUNT QM-LM-01-B1
 MSP UPGRADE: NO

SHEET LIST TABLE

Sheet Number	Sheet Title
T-001	COVER PAGE
G-001	NOTES
A-101	SITE PLAN
A-102	ELECTRICAL PLAN
A-103	SOLAR ATTACHMENT PLAN
A-104	INSTALLER REFERENCE PAGE
E-601	LINE DIAGRAM
E-602	DESIGN TABLES
E-603	PLACARDS
S-501	ASSEMBLY DETAILS
R-001	RESOURCE DOCUMENT
R-002	RESOURCE DOCUMENT
R-003	RESOURCE DOCUMENT
R-004	RESOURCE DOCUMENT
R-005	RESOURCE DOCUMENT
R-006	RESOURCE DOCUMENT
R-007	RESOURCE DOCUMENT

PROJECT INFORMATION

OWNER
 NAME: RUTH MAHONEY
PROJECT MANAGER
 NAME: PATRICK RONDEAU
 PHONE: 413-584-8844
CONTRACTOR
 NAME: VALLEY SOLAR LLC
 PHONE: 413-584-8844
 PROJECT SUPERVISED BY: JESSE KEKELBAUM

AUTHORITIES HAVING JURISDICTION
 BUILDING: SPRINGFIELD CITY
 ZONING: SPRINGFIELD CITY
 UTILITY: EVERSOURCE

DESIGN SPECIFICATIONS
 OCCUPANCY: I
 CONSTRUCTION: SINGLE-FAMILY
 NAME: RESIDENTIAL
 GROUND SNOW LOAD: 35 PSF
 WIND EXPOSURE: B
 WIND SPEED: 120 MPH
 UTILITY METER #037713462

APPLICABLE CODES & STANDARDS
 BUILDING: MASSACHUSETTS BUILDING CODE, 9TH EDITION, AS AMENDED (780 CMR), IBC 2021
 MASSACHUSETTS RESIDENTIAL BUILDING CODE, 9TH EDITION, AS AMENDED (780 CMR)
 RESIDENTIAL: NEC 2023
 ELECTRICAL: MASSACHUSETTS COMPREHENSIVE FIRE SAFETY CODE (527 CMR 1.00)
 FIRE: NFPA 1 FIRE CODE - 2021



CONTRACTOR

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NEW PV SYSTEM:
DC: 14.190 kWp / AC: 13.300 kWp

RUTH MAHONEY RESIDENCE

30 SPRUCELAND AVENUE
 SPRINGFIELD, MA 01108
 APN: 110650008
ENGINEER OF RECORD

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

COVER PAGE

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

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T-001.00
 (SHEET 1)

A	B	C	D	E	F	G	H
2.1.1	<u>SITE NOTES:</u>		2.5.1	<u>INTERCONNECTION NOTES:</u>			
2.1.2	A LADDER WILL BE IN PLACE FOR INSPECTION IN COMPLIANCE WITH OSHA REGULATIONS.		2.5.2	LOAD-SIDE INTERCONNECTION SHALL BE IN ACCORDANCE WITH [NEC 705.12]			
2.1.3	THE PV MODULES ARE CONSIDERED NON-COMBUSTIBLE AND THIS SYSTEM IS A UTILITY INTERACTIVE SYSTEM WITH NO STORAGE BATTERIES.		2.5.3	THE SUM OF 125 PERCENT OF THE POWER SOURCE(S) OUTPUT CIRCUIT CURRENT AND THE RATING OF THE OVERCURRENT DEVICE PROTECTING THE BUSBAR SHALL NOT EXCEED 120 PERCENT OF THE AMPACITY OF THE BUSBAR. PV DEDICATED BACKFEED BREAKERS MUST BE LOCATED OPPOSITE END OF THE BUS FROM THE UTILITY SOURCE OCPD [NEC 705.12(B)(3)(2)].			
2.1.4	THE SOLAR PV INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING, MECHANICAL, OR BUILDING ROOF VENTS.		2.5.4	AT MULTIPLE ELECTRIC POWER SOURCES OUTPUT COMBINER PANEL, TOTAL RATING OF ALL OVERCURRENT DEVICES SHALL NOT EXCEED AMPACITY OF BUSBAR. HOWEVER, THE COMBINED OVERCURRENT DEVICE MAY BE EXCLUDED ACCORDING TO NEC 705.12 (B)(3)(3).			
2.1.5	PROPER ACCESS AND WORKING CLEARANCE AROUND EXISTING AND PROPOSED ELECTRICAL EQUIPMENT WILL BE PROVIDED AS PER SECTION NEC 110.26.		2.5.5	FEEDER TAP INTERCONNECTION (LOAD SIDE) ACCORDING TO NEC 705.12 (B)(1) AND (2)			
2.1.6	ROOF COVERINGS SHALL BE DESIGNED, INSTALLED, AND MAINTAINED IN ACCORDANCE WITH THIS CODE AND THE APPROVED MANUFACTURER'S INSTRUCTIONS SUCH THAT THE ROOF COVERING SERVES TO PROTECT THE BUILDING OR STRUCTURE.		2.5.6	SUPPLY SIDE TAP INTERCONNECTION ACCORDING TO NEC 705.11 WITH SERVICE ENTRANCE CONDUCTORS IN ACCORDANCE WITH NEC 230.42			
2.2.1	<u>EQUIPMENT LOCATIONS</u>		2.5.7	BACKFEEDING BREAKER FOR ELECTRIC POWER SOURCES OUTPUT IS EXEMPT FROM ADDITIONAL FASTENING [NEC 705.12 (E)].			
2.2.2	ALL EQUIPMENT SHALL MEET MINIMUM SETBACKS AS REQUIRED BY NEC 110.26.		2.6.1	<u>DISCONNECTION AND OVER-CURRENT PROTECTION NOTES:</u>			
2.2.3	WIRING SYSTEMS INSTALLED IN DIRECT SUNLIGHT MUST BE RATED FOR EXPECTED OPERATING TEMPERATURE AS SPECIFIED BY NEC 690.31 (A),(C) AND NEC TABLE 310.15 (B)(1).		2.6.2	DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING ENERGIZED ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS).			
2.2.4	JUNCTION AND PULL BOXES PERMITTED INSTALLED UNDER PV MODULES ACCORDING TO NEC 690.34.		2.6.3	DISCONNECTS TO BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH.			
2.2.5	ADDITIONAL AC DISCONNECT(S) SHALL BE PROVIDED WHERE THE INVERTER IS NOT WITHIN SIGHT OF THE AC SERVICING DISCONNECT.		2.6.4	BOTH POSITIVE AND NEGATIVE PV CONDUCTORS ARE UNGROUNDED. THEREFORE BOTH MUST OPEN WHERE A DISCONNECT IS REQUIRED, ACCORDING TO NEC 690.13.			
2.2.6	ALL EQUIPMENT SHALL BE INSTALLED ACCESSIBLE TO QUALIFIED PERSONNEL ACCORDING TO NEC APPLICABLE CODES.		2.6.5	ISOLATING DEVICES OR EQUIPMENT DISCONNECTING MEANS SHALL BE INSTALLED IN CIRCUITS CONNECTED TO EQUIPMENT AT A LOCATION WITHIN THE EQUIPMENT, OR WITHIN SIGHT AND WITHIN 10 FT. OF THE EQUIPMENT. AN EQUIPMENT DISCONNECTING MEANS SHALL BE PERMITTED TO BE REMOTE FROM THE EQUIPMENT WHERE THE EQUIPMENT DISCONNECTING MEANS CAN BE REMOTELY OPERATED FROM WITHIN 10 FT. OF THE EQUIPMENT, ACCORDING TO NEC 690.15 (A).			
2.2.7	ALL COMPONENTS ARE LISTED FOR THEIR PURPOSE AND RATED FOR OUTDOOR USAGE WHEN APPROPRIATE.		2.6.6	PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION TO REDUCE SHOCK HAZARD FOR EMERGENCY RESPONDERS IN ACCORDANCE WITH 690.12(A) THROUGH (D)			
2.3.1	<u>STRUCTURAL NOTES:</u>		2.6.7	ALL OCPD RATINGS AND TYPES SPECIFIED ACCORDING TO NEC 690.8, 690.9, AND 240.			
2.3.2	RACKING SYSTEM & PV ARRAY WILL BE INSTALLED ACCORDING TO CODE-COMPLIANT INSTALLATION MANUAL. TOP CLAMPS REQUIRE A DESIGNATED SPACE BETWEEN MODULES, AND RAILS MUST ALSO EXTEND A MINIMUM DISTANCE BEYOND EITHER EDGE OF THE ARRAY/SUBARRAY, ACCORDING TO RAIL MANUFACTURER'S INSTRUCTIONS.		2.6.8	BOTH POSITIVE AND NEGATIVE PV CONDUCTORS ARE UNGROUNDED, THEREFORE BOTH REQUIRE OVER-CURRENT PROTECTION, ACCORDING TO NEC 240.21. (SEE EXCEPTION IN NEC 690.9)			
2.3.3	JUNCTION BOX WILL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF ROOF-PENETRATING TYPE, IT SHALL BE FLASHED & SEALED PER LOCAL REQUIREMENTS.		2.6.9	IF REQUIRED BY AHJ, SYSTEM WILL INCLUDE ARC-FAULT CIRCUIT PROTECTION ACCORDING TO NEC 690.11 AND UL1699B.			
2.3.4	ROOFTOP PENETRATIONS FOR PV RACEWAY WILL BE COMPLETED AND SEALED W/ APPROVED CHEMICAL SEALANT PER CODE BY A LICENSED CONTRACTOR.						
2.3.5	ALL PV RELATED ROOF ATTACHMENTS TO BE SPACED NO GREATER THAN THE SPAN DISTANCE SPECIFIED BY THE RACKING MANUFACTURER.						
2.3.6	WHEN POSSIBLE, ALL PV RELATED RACKING ATTACHMENTS WILL BE STAGGERED AMONGST THE ROOF FRAMING MEMBERS.						
2.4.1	<u>GROUNDING NOTES:</u>		2.7.1	<u>WIRING & CONDUIT NOTES:</u>			
2.4.2	GROUNDING SYSTEM COMPONENTS SHALL BE LISTED FOR THEIR PURPOSE, AND GROUNDING DEVICES EXPOSED TO THE ELEMENTS SHALL BE RATED FOR SUCH USE.		2.7.2	ALL CONDUIT AND WIRE WILL BE LISTED AND APPROVED FOR THEIR PURPOSE. CONDUIT AND WIRE SPECIFICATIONS ARE BASED ON MINIMUM CODE REQUIREMENTS AND ARE NOT MEANT TO LIMIT UP-SIZING.			
2.4.3	PV SYSTEMS REQUIRE AN EQUIPMENT GROUNDING CONDUCTOR. ALL METAL ELECTRICAL EQUIPMENT AND STRUCTURAL COMPONENTS BONDED TO GROUND, IN ACCORDANCE WITH 250.134 OR 250.136(A), ONLY THE DC CONDUCTORS ARE UNGROUNDED.		2.7.3	ALL CONDUCTORS SIZED ACCORDING TO NEC 690.8, NEC 690.7.			
2.4.4	PV EQUIPMENT SHALL BE GROUNDED ACCORDING TO NEC 690.43 AND MINIMUM NEC TABLE 250.122.		2.7.4	EXPOSED PV SOURCE CIRCUITS AND OUTPUT CIRCUITS SHALL USE WIRE LISTED AND IDENTIFIED AS PHOTOVOLTAIC (PV) WIRE [690.31 (C)]. PV MODULES WIRE LEADS SHALL BE LISTED FOR USE ON PV ARRAYS, ACCORDING TO NEC 690.31 (A).			
2.4.5	METAL PARTS OF MODULE FRAMES, MODULE RACKING, AND ENCLOSURE CONSIDERED GROUNDED IN ACCORD WITH 250.134 AND 250.136(A).		2.7.5	PV WIRE BLACK WIRE MAY BE FIELD-MARKED WHITE [NEC 200.6 (A)(5)].			
2.4.6	EACH MODULE WILL BE GROUNDED USING WEEB GROUNDING CLIPS AS SHOWN IN MANUFACTURER DOCUMENTATION AND APPROVED BY THE AHJ. IF WEEBS ARE NOT USED, MODULE GROUNDING LUGS MUST BE INSTALLED AT THE SPECIFIED GROUNDING LUG HOLES PER THE MANUFACTURERS' INSTALLATION REQUIREMENTS.		2.7.6	MODULE WIRING SHALL BE LOCATED AND SECURED UNDER THE ARRAY.			
2.4.7	THE GROUNDING CONNECTION TO A MODULE SHALL BE ARRANGED SUCH THAT THE REMOVAL OF A MODULE DOES NOT INTERRUPT A GROUNDING CONDUCTOR TO ANOTHER MODULE.		2.7.7	ACCORDING TO NEC 200.7, UNGROUNDED SYSTEMS DC CONDUCTORS COLORED OR MARKED AS FOLLOWS:			
2.4.8	GROUNDING AND BONDING CONDUCTORS, IF INSULATED, SHALL BE COLORED GREEN OR MARKED GREEN IF #4 AWG OR LARGER [NEC 250.119]		2.7.8	DC POSITIVE- RED, OR OTHER COLOR EXCLUDING WHITE, GRAY AND GREEN			
2.4.9	THE GROUNDING ELECTRODE SYSTEM COMPLIES WITH NEC 690.47 AND NEC 250.50 THROUGH 250.106. IF EXISTING SYSTEM IS INACCESSIBLE, OR INADEQUATE, A GROUNDING ELECTRODE SYSTEM PROVIDED ACCORDING TO NEC 250, NEC 690.47 AND AHJ.			DC NEGATIVE- BLACK, OR OTHER COLOR EXCLUDING WHITE, GRAY AND GREEN			
2.4.10	DC PV ARRAYS SHALL BE PROVIDED WITH DC GROUND-FAULT PROTECTION MEETING THE REQUIREMENTS OF 690.41(B)(1) THROUGH (3) TO REDUCE FIRE HAZARDS			AC CONDUCTORS COLORED OR MARKED AS FOLLOWS:			
				PHASE A OR L1- BLACK			
				PHASE B OR L2- RED, OR OTHER CONVENTION IF THREE PHASE			
				PHASE C OR L3- BLUE, YELLOW, ORANGE*, OR OTHER CONVENTION			
				NEUTRAL- WHITE OR GRAY			
				IN 4-WIRE DELTA CONNECTED SYSTEMS THE PHASE WITH HIGHER VOLTAGE TO BE MARKED ORANGE [NEC 110.15].			



CONTRACTOR

VALLEY SOLAR LLC

PHONE: 413-584-8844
ADDRESS: 116 PLEASANT ST SUITE 321
EASTHAMPTON, MA 01027

LIC. NO.:
HIC. NO.: 186338
ELE. NO.: 664A1

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM:
DC: 14.190 kWp / AC: 13.300 kWp

RUTH MAHONEY RESIDENCE

30 SPRUCELAND AVENUE
SPRINGFIELD, MA 01108
APN: 110650008
ENGINEER OF RECORD



Wyssling Consulting, PLLC
76 N Meadowbrook Drive, Alpine UT 84004
Massachusetts COA #001629764
Signed 11/17/2025

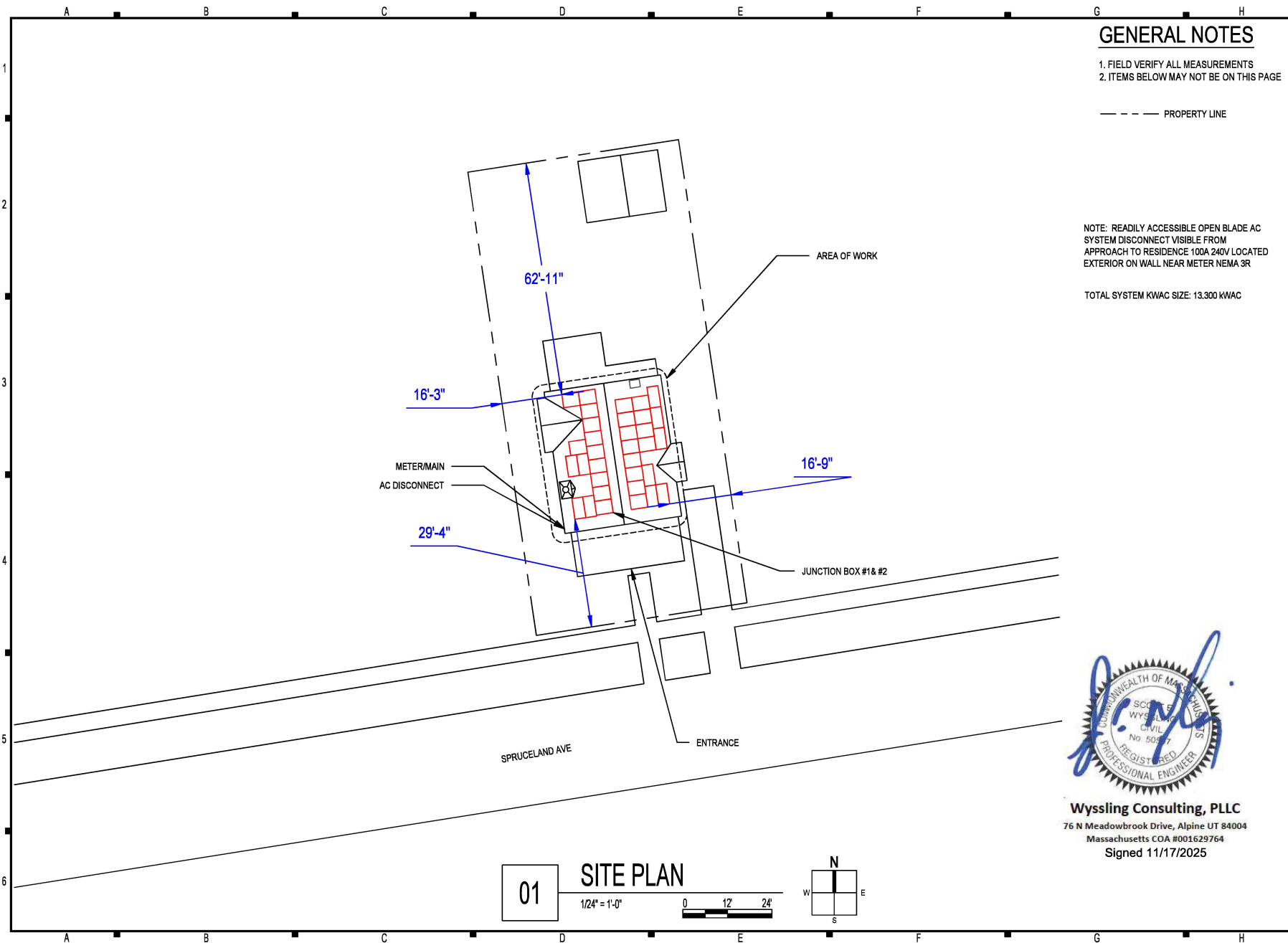
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NOTES

DATE: 11.10.2025
DESIGN BY: O.L.
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REVISIONS

G-001.00
(SHEET 2)



GENERAL NOTES

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

--- PROPERTY LINE

NOTE: READILY ACCESSIBLE OPEN BLADE AC SYSTEM DISCONNECT VISIBLE FROM APPROACH TO RESIDENCE 100A 240V LOCATED EXTERIOR ON WALL NEAR METER NEMA 3R

TOTAL SYSTEM KWAC SIZE: 13.300 KWAC



CONTRACTOR

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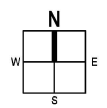
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01 SITE PLAN
 1/24" = 1'-0"
 0 12 24'



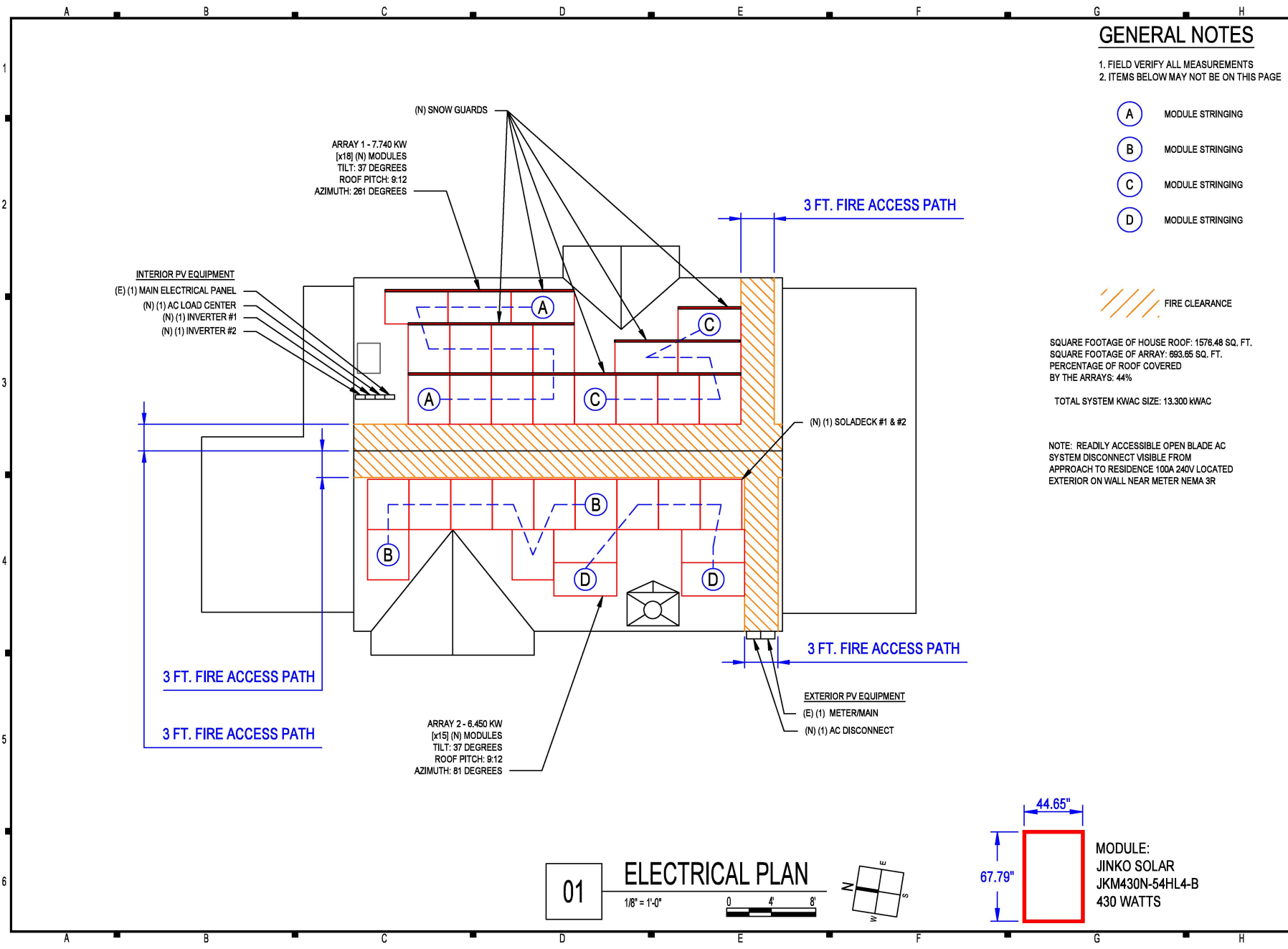
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SITE PLAN

DATE: 11.10.2025
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 CHECKED BY: M.M.

REVISIONS

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 (SHEET 3)



GENERAL NOTES

- 1. FIELD VERIFY ALL MEASUREMENTS
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- (A) MODULE STRINGING
- (B) MODULE STRINGING
- (C) MODULE STRINGING
- (D) MODULE STRINGING



SQUARE FOOTAGE OF HOUSE ROOF: 1576.48 SQ. FT.
 SQUARE FOOTAGE OF ARRAY: 693.65 SQ. FT.
 PERCENTAGE OF ROOF COVERED BY THE ARRAYS: 44%

TOTAL SYSTEM KWAC SIZE: 13.300 KWAC

NOTE: READILY ACCESSIBLE OPEN BLADE AC SYSTEM DISCONNECT VISIBLE FROM APPROACH TO RESIDENCE 100A 240V LOCATED EXTERIOR ON WALL NEAR METER NEMA 3R



CONTRACTOR

VALLEY SOLAR LLC

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 SPRINGFIELD, MA 01108
 APN: 110650008

ENGINEER OF RECORD

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ELECTRICAL PLAN

DATE: 11.10.2025
 DESIGN BY: O.L.
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REVISIONS

A-102.00
 (SHEET 4)

01 ELECTRICAL PLAN

1/8" = 1'-0"

MODULE:
 JINKO SOLAR
 JKM430N-54HL4-B
 430 WATTS

GENERAL NOTES

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

--- ROOF RAFTERS

FLUSH MOUNT SOLAR MODULES
ATTACHED TO ROOF SURFACE (SEE
SHEET S-501 FOR MOUNTING DETAILS)

ROOF MATERIAL IS ASPHALT SHINGLE

FLUSH MOUNT SOLAR MODULES
ATTACHED TO ROOF SURFACE (SEE
SHEET S-501 FOR MOUNTING DETAILS)

ROOF MATERIAL IS ASPHALT SHINGLE

31'-11"

33'-10"



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Massachusetts COA #001629764
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ENGINEER OF RECORD

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SOLAR ATTACHMENT PLAN

DATE: 11.10.2025

DESIGN BY: O.L.

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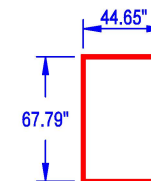
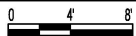
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(SHEET 5)

01 SOLAR ATTACHMENT PLAN

1/8" = 1'-0"



MODULE:
JINKO SOLAR
JKM430N-54HL4-B
430 WATTS

GENERAL NOTES

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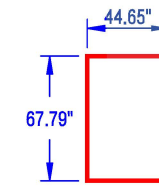
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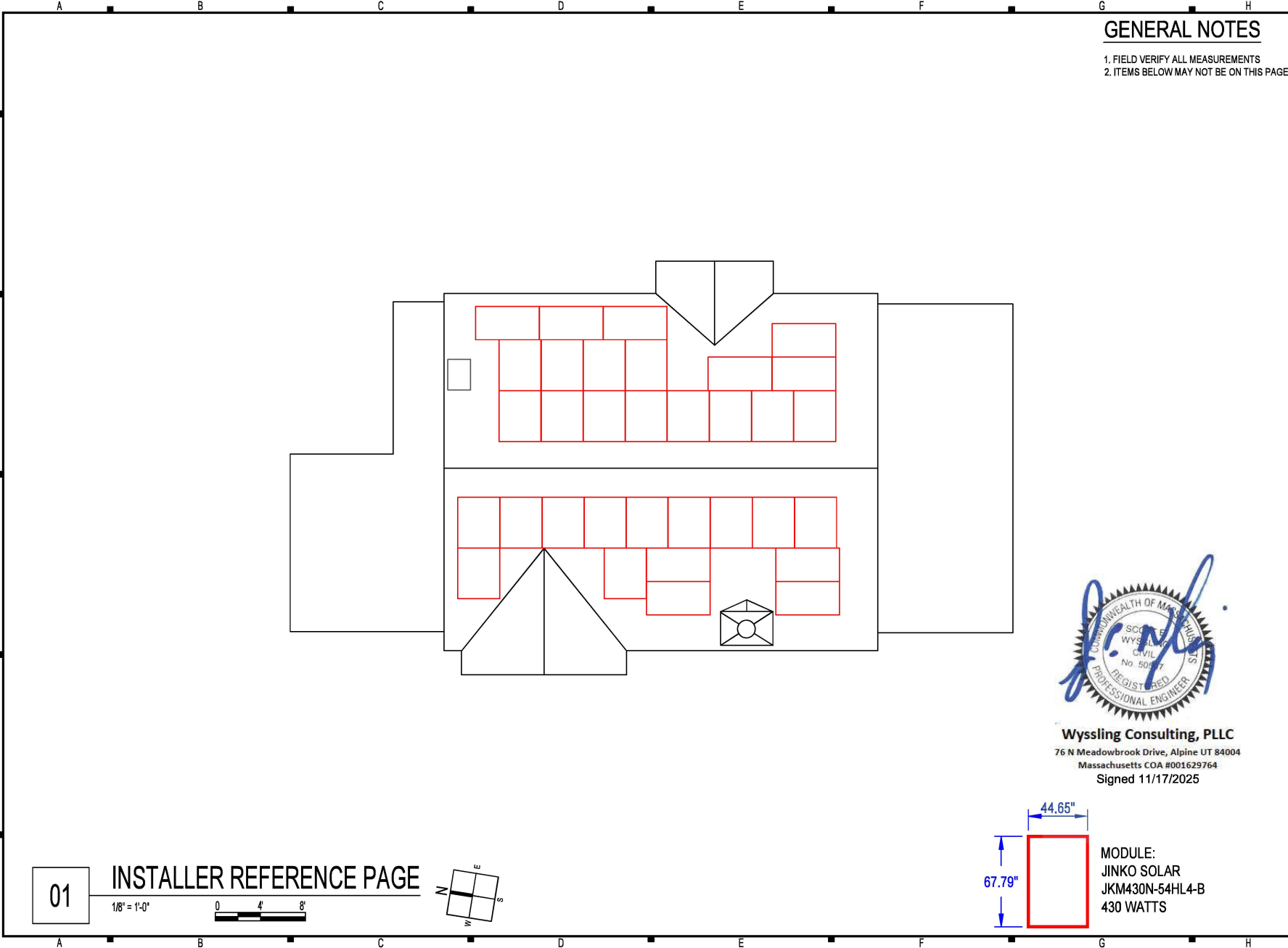
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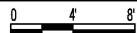
MODULE:
JINKO SOLAR
JKM430N-54HL4-B
430 WATTS



01

INSTALLER REFERENCE PAGE

1/8" = 1'-0"



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

INSTALLER REFERENCE PAGE

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

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(SHEET 6)

CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS

ID	TYPICAL	CONDUCTOR	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	EGC	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT (125%)	BASE AMP.	DERATED AMP.	TERM. TEMP. RATING	AMP. @ TERMINAL
1	2	10 AWG PV WIRE, COPPER	FREE AIR	2	N/A	6 AWG BARE, COPPER	0.96 (32.7 °C)	1	17.06A	21.33A	55A	52.8A	75°C	50A
2	1	10 AWG THWN-2, COPPER	0.75" DIA EMT	4/4	N/A	10 AWG THWN-2, COPPER	0.96 (32.7 °C)	0.8/0.8	17.06A	21.33A	40A	30.72A	75°C	35A
3.1	1	8 AWG THWN-2, COPPER	0.75" DIA EMT	2	40A	8 AWG THWN-2, COPPER	0.96 (32.7 °C)	1	32A	40A	55A	52.8A	75°C	50A
3.2	1	10 AWG THWN-2, COPPER	0.75" DIA EMT	2	30A	8 AWG THWN-2, COPPER	0.96 (32.7 °C)	1	24A	30A	55A	52.8A	75°C	50A
4	1	4 AWG THWN-2, COPPER	1' DIA EMT	2	N/A	8 AWG THWN-2, COPPER	0.96 (32.7 °C)	1	56A	70A	95A	91.2A	75°C	85A
5	1	4 AWG THWN-2, COPPER	1' DIA EMT	2	70A	8 AWG THWN-2, COPPER	0.96 (32.7 °C)	1	56A	70A	95A	91.2A	75°C	85A



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NEW PV SYSTEM:
DC: 14.190 kWp / AC: 13.300 kWp

RUTH MAHONEY RESIDENCE

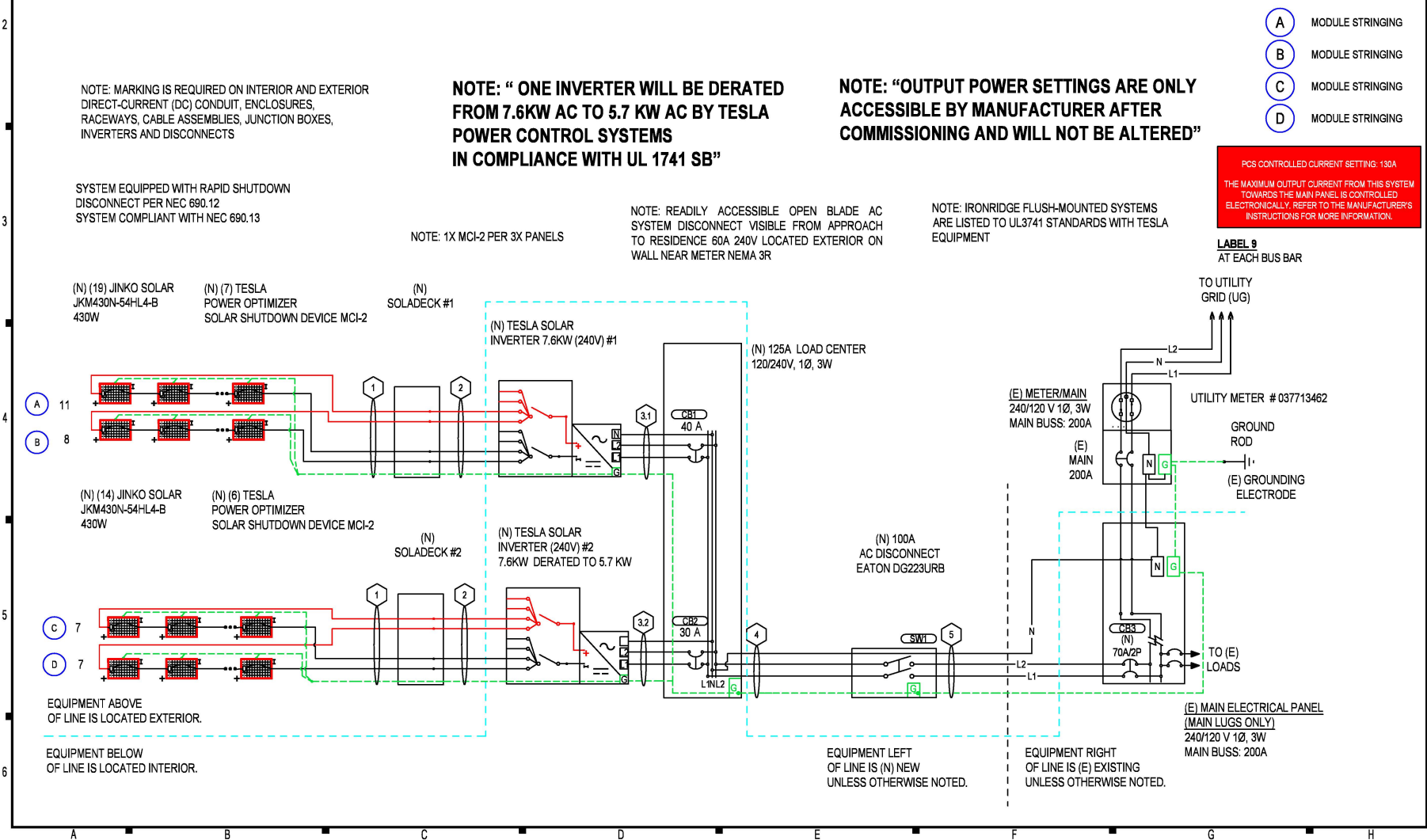
30 SPRUCELAND AVENUE
SPRINGFIELD, MA 01108
APN: 110650008
ENGINEER OF RECORD

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

LINE DIAGRAM

DATE: 11.10.2025
DESIGN BY: O.L.
CHECKED BY: M.M.
REVISIONS

E-601.00
(SHEET 7)





CONTRACTOR

VALLEY SOLAR LLC

PHONE: 413-584-8844
ADDRESS: 116 PLEASANT ST SUITE 321
EASTHAMPTON, MA 01027

LIC. NO.:
HIC. NO.: 186338
ELE. NO.: 664A1

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DRAWING SET WITHOUT WRITTEN
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AND WILL BE SUBJECT TO CIVIL
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SPRINGFIELD, MA 01108
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ENGINEER OF RECORD

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

DESIGN TABLES

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

REVISIONS

E-602.00

(SHEET 8)

SYSTEM SUMMARY table with columns for Inverter #1 and Inverter #2, listing MPPT #1, MPPT #2, and various power and current values.

MODULES table with columns for REF., QTY., MAKE AND MODEL, PMAX, PTC, ISC, IMP, VOC, VMP, TEMP. COEFF. OF VOC, and FUSE RATING.

INVERTERS table with columns for REF., QTY., MAKE AND MODEL, AC VOLTAGE, GROUND, OCPD RATING, RATED POWER, MAX OUTPUT CURRENT, MAX INPUT CURRENT, MAX INPUT VOLTAGE, and CEC WEIGHTED EFFICIENCY.

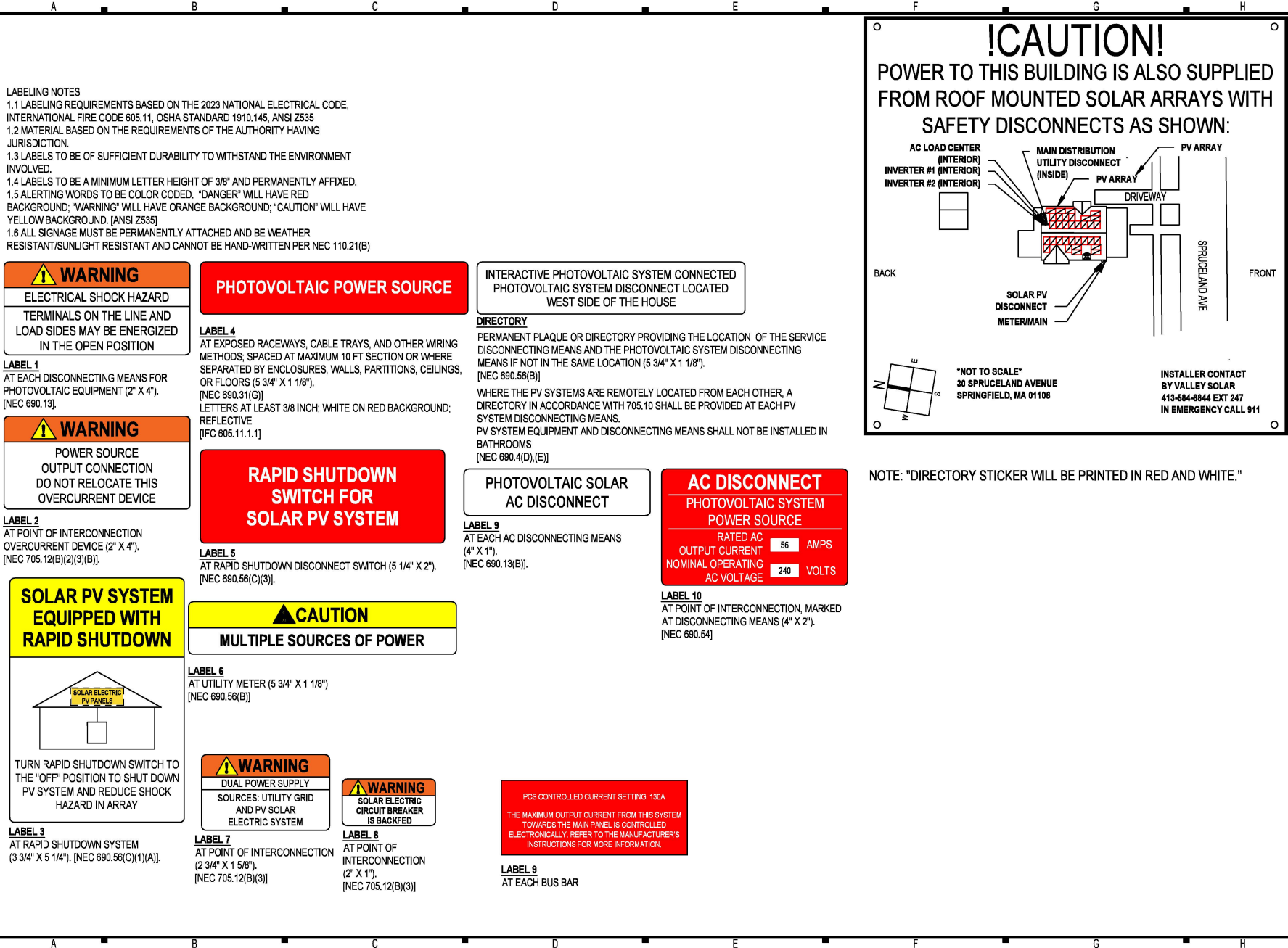
DISCONNECTS table with columns for REF., QTY., MAKE AND MODEL, RATED CURRENT, and MAX RATED VOLTAGE.

OCPDS table with columns for REF., QTY., RATED CURRENT, and MAX VOLTAGE.

ASHRAE table with columns for ASHRAE EXTREME LOW, ASHRAE 2% HIGH, and temperature specifications.

BILL OF MATERIALS table with columns for CATEGORY, MAKE, MODEL NUMBER, REF, QTY, UNIT, QTY/UNIT, and DESCRIPTION.

Empty table area at the bottom of the sheet.



LABELING NOTES
 1.1 LABELING REQUIREMENTS BASED ON THE 2023 NATIONAL ELECTRICAL CODE, INTERNATIONAL FIRE CODE 605.11, OSHA STANDARD 1910.145, ANSI Z535
 1.2 MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 1.3 LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
 1.4 LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8" AND PERMANENTLY AFFIXED.
 1.5 ALERTING WORDS TO BE COLOR CODED. "DANGER" WILL HAVE RED BACKGROUND; "WARNING" WILL HAVE ORANGE BACKGROUND; "CAUTION" WILL HAVE YELLOW BACKGROUND. [ANSI Z535]
 1.6 ALL SIGNAGE MUST BE PERMANENTLY ATTACHED AND BE WEATHER RESISTANT/SUNLIGHT RESISTANT AND CANNOT BE HAND-WRITTEN PER NEC 110.21(B)

WARNING
 ELECTRICAL SHOCK HAZARD
 TERMINALS ON THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

PHOTOVOLTAIC POWER SOURCE

LABEL 1
 AT EACH DISCONNECTING MEANS FOR PHOTOVOLTAIC EQUIPMENT (2" X 4"). [NEC 690.13]

WARNING
 POWER SOURCE OUTPUT CONNECTION DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL 4
 AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS; SPACED AT MAXIMUM 10 FT SECTION OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS (5 3/4" X 1 1/8"). [NEC 690.31(G)]
 LETTERS AT LEAST 3/8 INCH; WHITE ON RED BACKGROUND; REFLECTIVE [IFC 605.11.1.1]

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL 2
 AT POINT OF INTERCONNECTION OVERCURRENT DEVICE (2" X 4"). [NEC 705.12(B)(2)(3)(B)].

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN ARRAY

LABEL 5
 AT RAPID SHUTDOWN DISCONNECT SWITCH (5 1/4" X 2"). [NEC 690.56(C)(3)].

CAUTION
 MULTIPLE SOURCES OF POWER

LABEL 6
 AT UTILITY METER (5 3/4" X 1 1/8") [NEC 690.56(B)]

WARNING
 DUAL POWER SUPPLY
 SOURCES: UTILITY GRID AND PV SOLAR ELECTRIC SYSTEM

WARNING
 SOLAR ELECTRIC CIRCUIT BREAKER IS BACKFED

LABEL 7
 AT POINT OF INTERCONNECTION (2 3/4" X 1 5/8"). [NEC 705.12(B)(3)]

LABEL 8
 AT POINT OF INTERCONNECTION (2" X 1"). [NEC 705.12(B)(3)]

INTERACTIVE PHOTOVOLTAIC SYSTEM CONNECTED PHOTOVOLTAIC SYSTEM DISCONNECT LOCATED WEST SIDE OF THE HOUSE

DIRECTORY
 PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC SYSTEM DISCONNECTING MEANS IF NOT IN THE SAME LOCATION (5 3/4" X 1 1/8"). [NEC 690.56(B)]
 WHERE THE PV SYSTEMS ARE REMOTELY LOCATED FROM EACH OTHER, A DIRECTORY IN ACCORDANCE WITH 705.10 SHALL BE PROVIDED AT EACH PV SYSTEM DISCONNECTING MEANS. PV SYSTEM EQUIPMENT AND DISCONNECTING MEANS SHALL NOT BE INSTALLED IN BATHROOMS [NEC 690.4(D),(E)]

PHOTOVOLTAIC SOLAR AC DISCONNECT

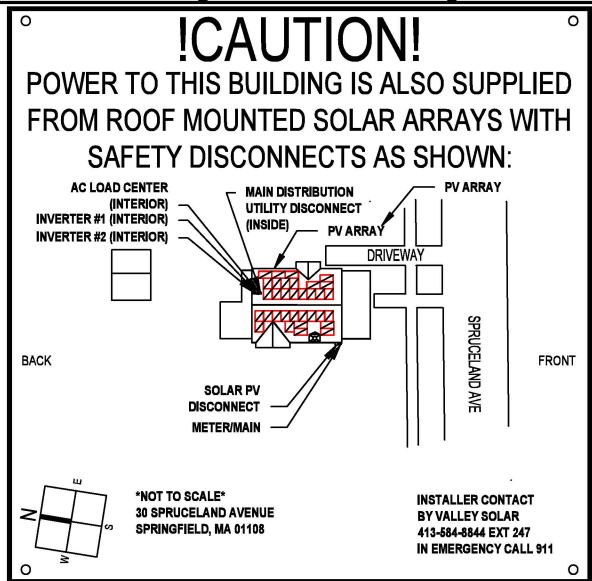
AC DISCONNECT PHOTOVOLTAIC SYSTEM POWER SOURCE

RATED AC OUTPUT CURRENT	56	AMPS
NOMINAL OPERATING AC VOLTAGE	240	VOLTS

LABEL 9
 AT EACH AC DISCONNECTING MEANS (4" X 1"). [NEC 690.13(B)].

PCS CONTROLLED CURRENT SETTING: 133A
 THE MAXIMUM OUTPUT CURRENT FROM THIS SYSTEM TOWARDS THE MAIN PANEL IS CONTROLLED ELECTRONICALLY. REFER TO THE MANUFACTURER'S INSTRUCTIONS FOR MORE INFORMATION.

LABEL 9
 AT EACH BUS BAR



NOTE: "DIRECTORY STICKER WILL BE PRINTED IN RED AND WHITE."



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ENGINEER OF RECORD

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PLACARDS

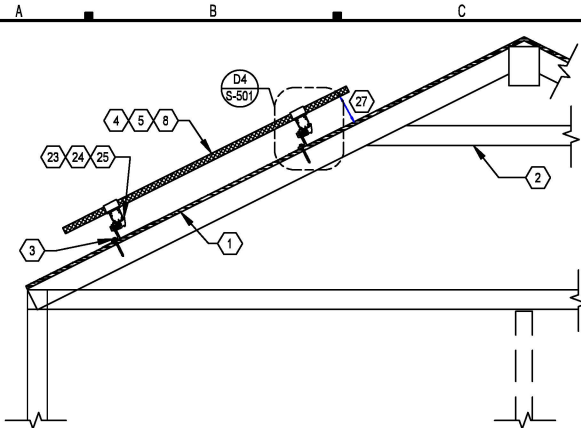
DATE: 11.10.2025

DESIGN BY: O.L.

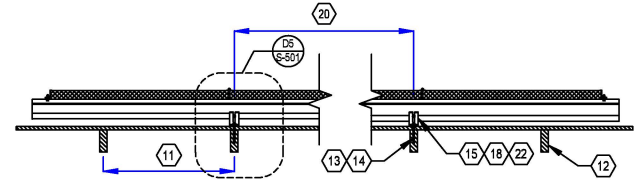
CHECKED BY: M.M.

REVISIONS

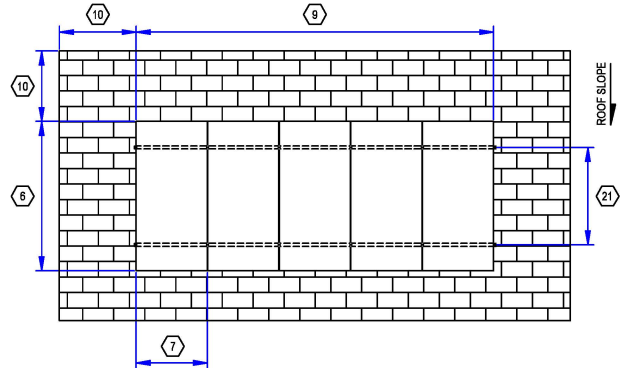
E-603.00
 (SHEET 9)



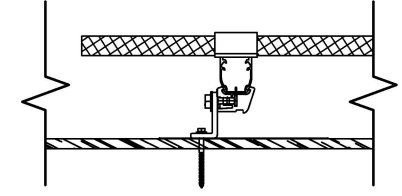
D1 RACKING DETAIL (TRANSVERSE)
SCALE: NOT TO SCALE



D2 RACKING DETAIL (LONGITUDINAL)
SCALE: NOT TO SCALE



D3 RACKING DETAIL (TOP)
SCALE: NOT TO SCALE



D4 DETAIL (TRANSVERSE)
SCALE: NOT TO SCALE



D5 DETAIL (LONGITUDINAL)
SCALE: NOT TO SCALE

GENERAL NOTES

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

SHEET KEYNOTES

1. ROOF MATERIAL: ASPHALT SHINGLE
2. ROOF STRUCTURE: COLLAR TIE
3. ATTACHMENT TYPE: IRONRIDGE QUICKMOUNT QM-LM-01-B1
4. MODULE MANUFACTURER: JINKO SOLAR
5. MODULE MODEL: JKM430N-54-HL4-B
6. MODULE LENGTH: 67.79"
7. MODULE WIDTH: 44.65"
8. MODULE WEIGHT: 46.3 LBS
9. SEE SHEET A-103 FOR DIMENSION(S)
10. FIRE OFFSET: 3' FROM RIDGE, AT LEAST 2 PATHWAYS TO A STREET OR DRIVEWAY MINIMUM 3' WIDE
11. RAFTER SPACING: 24 IN. O.C.
12. RAFTER SIZE: 2X6 IN. NOMINAL
13. LAG BOLT DIAMETER: BOLT/SCREW SUPPLIED WITH RACKING.
14. LAG BOLT EMBEDMENT: 2.5 IN.
15. TOTAL # OF ATTACHMENTS: 91
16. TOTAL AREA: 693.65 SQ. FT.
17. TOTAL WEIGHT: 1796.41 LBS.
18. WEIGHT PER ATTACHMENT: 19.74 LBS.
19. DISTRIBUTED LOAD: 2.59 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.): IRONRIDGE
24. RAIL MODEL (OR EQUIVALENT): AIRE A2 RAIL
25. RAIL WEIGHT: 0.945 PLF
26. MAX. RAFTER SPAN: N/A.
27. MODULE CLEARANCE: 3 IN. MIN., 6 IN. MAX.



Wyssling Consulting, PLLC
76 N Meadowbrook Drive, Alpine UT 84004
Massachusetts COA #001629764
Signed 11/17/2025



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ENGINEER OF RECORD

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ASSEMBLY DETAILS

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

REVISIONS

S-501.00

(SHEET 10)



THE MOST DEPENDABLE SOLAR PRODUCT

EAGLE® 54 66R

420-440 WATT • N-TYPE TOPCON

Positive power tolerance of 0~+3%

- NYSE-listed since 2010, Bloomberg Tier 1 manufacturer
- Top performance in the strictest 3rd party labs
- Automated manufacturing utilizing artificial intelligence
- Vertically integrated, tight controls on quality
- Premium solar factories in USA, Vietnam, and Malaysia

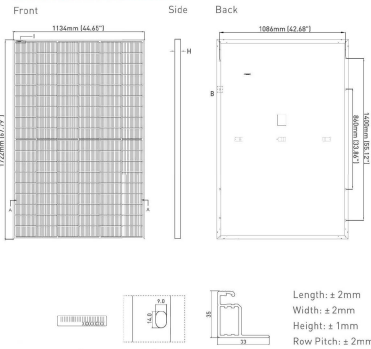
KEY FEATURES

- Superior Aesthetics**
Black backsheet and black frame create ideal look for residential applications.
- N-Type Technology**
N-type cells with Jinko's in-house TOPCON technology offers better performance and improved reliability.
- Thick and Tough**
Fire Type 1 rated module engineered with a thick frame, 3.2mm front side glass, and thick backsheet for added durability.
- Shade Tolerant**
Twin array design allows continued performance even with shading by trees or debris.
- Protected Against All Environments**
Certified to withstand humidity, heat, rain, marine environments, wind, hailstorms, and packed snow.
- Warranty**
25-year product and 30-year linear power warranty.

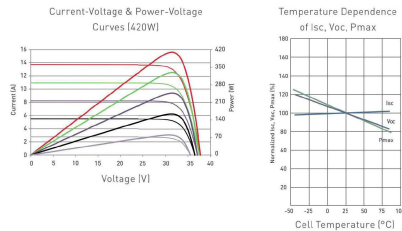
- ISO9001:2015 Quality Standards
- ISO45001:2018 Occupational Health & Safety Standards
- ISO14001:2015 Environmental Standards
- IEC61215, IEC61730 certified products
- UL61730 certified products



ENGINEERING DRAWINGS



ELECTRICAL PERFORMANCE & TEMPERATURE DEPENDENCE



ELECTRICAL CHARACTERISTICS

Module Type	JKM420N-54HL4-B		JKM425N-54HL4-B		JKM430N-54HL4-B		JKM435N-54HL4-B		JKM440N-54HL4-B	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	420Wp	316Wp	425Wp	320Wp	430Wp	323Wp	435Wp	327Wp	440Wp	331Wp
Maximum Power Voltage (Vmp)	32.16V	29.95V	32.37V	30.19V	32.58V	30.30V	32.78V	30.50V	32.99V	30.73V
Maximum Power Current (Imp)	13.06A	10.55A	13.13A	10.60A	13.20A	10.66A	13.27A	10.72A	13.34A	10.77A
Open-circuit Voltage (Voc)	38.74V	36.80V	38.95V	37.00V	39.16V	37.20V	39.36V	37.39V	39.57V	37.59V
Short-circuit Current (Isc)	13.51A	10.91A	13.58A	10.96A	13.65A	11.02A	13.72A	11.08A	13.80A	11.14A
Module Efficiency STC (%)	21.51%		21.76%		22.02%		22.28%		22.53%	

*STC: ☀ Irradiance 1000W/m² Cell Temperature 25°C
 NOCT: ☀ Irradiance 800W/m² Ambient Temperature 20°C

*Power measurement tolerance: ±3%

The company reserves the final right for explanation on any of the information presented hereby. JKM400-420N-54HL4-B-F4-U5

BUILDING YOUR TRUST IN SOLAR. WWW.JINKOSOLAR.US

MECHANICAL CHARACTERISTICS

No. of Half Cells	108 (2 x 54)
Dimensions	1722 x 1134 x 35mm (67.79 x 44.65 x 1.38 inch)
Weight	21.0kg (46.3lbs)
Front Glass	3.2mm, Anti-Reflection Coating High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65 Rated
Output Cables	12 AWG, 1400mm (55.12in) or Customized Length
Connector	Staubli MC4
Fire Type	Type 1
Pressure Rating	5400Pa (Snow) & 2400Pa (Wind)*

*see Supplemental Installation Manual for higher wind pressure rating solutions

TEMPERATURE CHARACTERISTICS

Temperature Coefficients of Pmax	-0.29%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.045%/°C
Nominal Operating Cell Temperature (NOCT)	45±2°C

MAXIMUM RATINGS

Operating Temperature (°C)	-40°C~+85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	25A

PACKAGING CONFIGURATION

[Two pallets = One stack]
 31pcs/pallets, 62pcs/stack, 806pcs/40 HQ Container

WARRANTY

25-year product and 30-year linear power warranty

1st year degradation not to exceed 1%, each subsequent year not to exceed 0.4%, minimum power at year 30 is 87.4% or greater.



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DATE: 11.10.2025

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CHECKED BY: M.M.

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(SHEET 11)





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REVISIONS

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 (SHEET 12)

Solar Shutdown Device Technical Specifications

The Solar Shutdown Device is a Mid-Circuit Interrupter (MCI) and is part of the PV system rapid shutdown (RSD) function in accordance with Article 690 of the applicable NEC. When paired with Tesla Solar Inverter, solar array shutdown is initiated by any loss of AC power.

Electrical Specifications	Model	MCI-1	MCI-2	MCI-2 High Current
Nominal Input DC Current Rating (I_{mp})		13 A	13 A	15 A
Maximum Input Short Circuit Current (I_{sc})		19 A	17 A	19 A
Maximum System Voltage (PVHCS)		600 V DC	1000 V DC ⁶	1000 V DC ⁶
Maximum Disconnect Voltage ⁷		600 V DC	165 V DC	165 V DC

⁶ Maximum System Voltage is limited by Tesla Solar Inverter to 600 V DC.

⁷ Maximum Disconnect Voltage is the maximum voltage allowed across each MCI in the open position (Rapid Shutdown Initiated). An individual MCI-2 has a voltage rating of 165V but in combination (connected in the same string) their voltage ratings are additive.

RSD Module Performance	Maximum Number of Devices per String	5
Control	Power Line Excitation	
Passive State	Normally Open	
Maximum Power Consumption	7 W	
Warranty	25 years	

Environmental Specifications	Operating Temperature	-40°C to 50°C (-40°F to 122°F)	-45°C to 70°C (-49°F to 158°F)
Storage Temperature		-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
Enclosure Rating		NEMA 4X / IP65	NEMA 4X / IP65

Mechanical Specifications	Electrical Connections	MC4 Connector	MC4 Connector
Housing		Plastic	Plastic
Dimensions		125 x 150 x 22 mm (5 x 6 x 1 in)	173 x 45 x 22 mm (6.8 x 1.8 x 1 in)
Weight		350 g (0.77 lb)	120 g (0.26 lb)
Mounting Options		ZEP Home Run Clip M4 Screw (#10) M8 Bolt (5/16") Nail / Wood screw	Wire Clip

Compliance Information	Certifications	UL 1741 PVRSE, UL 3741, PVRSA (Photovoltaic Rapid Shutdown Array)
	RSD Initiation Method	PV System AC Breaker or Switch

UL 3741 PV Hazard Control (and PVRSA) Compatibility
 See [UL 3741 Application Addendum](#)

Tesla Solar Inverter with Site Controller

Tesla Solar Inverter completes the Tesla home solar system, converting DC power from solar to AC power for home consumption. Tesla's renowned expertise in power electronics has been combined with robust safety features and a simple installation process to produce an outstanding solar inverter that is compatible with both Solar Roof and traditional solar panels. Once installed, homeowners use the Tesla mobile app to manage their solar system and monitor energy consumption, resulting in a truly unique ecosystem experience.

KEY FEATURES

- Built on Powerwall technology for exceptional efficiency and reliability
- Wi-Fi, Ethernet, and cellular connectivity with easy over-the-air updates
- Designed to integrate with Tesla Powerwall and Tesla App
- 0.5% revenue-grade metering for Solar Renewable Energy Credit (SREC) programs included



October 25, 2024

Tesla Solar Inverter Technical Specifications

Electrical Specifications: Output (AC)

Model Number	1538000-xx-y			
Output (AC) ¹	3.8 kW	5 kW	5.7 kW	7.6 kW
Nominal Power	3,800 W	5,000 W	5,700 W	7,600 W
Maximum Apparent Power	3,840 VA	5,040 VA	6,000 VA	7,680 VA
Maximum Continuous Current	16 A	21 A	24 A	32 A
Breaker (Overcurrent Protection)	20 A	30 A	30 A	40 A
Nominal Power Factor	1 - 0.9 (leading / lagging)			
THD (at Nominal Power)	<5%			

Electrical Specifications: Input (DC)

MPPT	4
Input Connectors per MPPT	1-2-1-2
Maximum Input Voltage	600 VDC
DC Input Voltage Range	60 - 550 VDC
DC MPPT Voltage Range	60 - 480 VDC ¹
Maximum Current per MPPT (I_{mp})	13 A ²
Maximum Short Circuit Current per MPPT (I_{sc})	17 A ²

¹Maximum current.

²Where the DC input current exceeds an MPPT rating, jumpers can be used to allow a single MPPT to intake additional DC current up to 26 A IMP / 34 A ISC.

Performance Specifications

Peak Efficiency	98.6% at 240 V
CEC Efficiency	98.0% at 240 V
Allowable DC/AC Ratio	1.7
Customer Interface	Tesla Mobile App
Internet Connectivity	Wi-Fi (2.4 GHz, 802.11 b/g/n), Ethernet, Cellular (LTE/4G) ³
Revenue Grade Meter	Revenue Accurate (+/- 0.5%)
AC Remote Metering Support	Wi-Fi (2.4 GHz, 802.11 b/g/n)
Protections	Integrated arc fault circuit interrupter (AFCI), Rapid Shutdown
Supported Grid Types	60 Hz, 240 V Split Phase
Warranty	12.5 years

³Cellular connectivity subject to network operator service coverage and signal strength.

Tesla Solar Inverter and Solar Shutdown Device Datasheet

2



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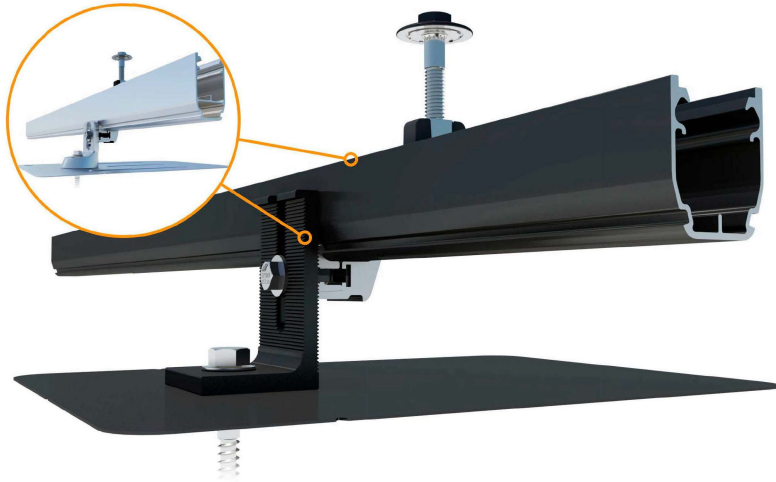
REVISIONS

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(SHEET 13)



Aire™ Racking System



Breathe easy with accelerated installations.

The Aire™ racking system has been carefully crafted to streamline every part of the installation process, taking out all of the tiresome hassles—so that you get off the roof and on to your next project faster than ever.

Aire™ retains the strength and reliability that IronRidge installers have come to depend on. Whether you're a seasoned installer with years under your belt or just getting started in solar, breathe easy with open Aire™.



Strength Tested

All components have been evaluated for superior structural performance.



Class A Fire Rating

Certified to maintain the fire resistance rating of the existing roof structure.



UL 2703 Listed System

Entire system and components meet the latest effective UL 2703 standards.



PE Certified

Pre-stamped engineering letters are available online for most states.



Design Assistant

Free online software makes it simple to create, share, and price projects.



25-Year Warranty

Products are guaranteed to arrive without any impairing defects.

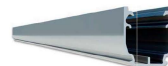
Datasheet

One-Tool System - 1/2" Hex-Head Components

Datasheet

Rails

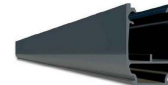
Aire™ A1 Rail



The lighter, open Aire™ rail for standard conditions.

- 6' spanning capability
- Wire management tray
- Mill or anodized black

Aire™ A2 Rail



The tougher, open Aire™ rail for higher load capacity.

- 8' spanning capability
- Wire management tray
- Mill or anodized black

Aire™ Rail Ties



Structurally connect and bond Aire™ Rails together.

- Reinstallable, up to 5x
- Internal splice design
- No more splice rules

Aire™ Dock



Connects Aire™ Rails to attachments with ease.

- Clicks on, slides easily
- Drops into open slots
- Anodized assembly

Clamps & Grounding

Aire™ Lock Mids



Securely bond between modules to Aire™ Rails.

- Fits 30-40mm modules
- Utilizes UFO® design
- Minimal 1/2" gap

Aire™ Lock Ends



Securely bond modules to Aire™ Rails along ends.

- Fits 30-40mm modules
- Easy rail engagement
- Clean aesthetics

Aire™ Lock Stealth



Securely bonds modules to rail ends, entirely hidden.

- Angled for easy install
- Robust tether leash
- Fits most modules

Aire™ Lug



Bonds Aire™ Rails to grounding conductors.

- Simplified with single bolt
- Low-profile form factor
- Works with 10-6 AWG

Accessories

Aire™ Caps



Block entry and provide a finished look to Aire™ Rails.

- Stay secure on rail ends
- Symmetrical, with drain
- Cover rough-cut ends

Aire™ Clip



Keeps wiring contained in open Aire™ Rail channels.

- No module interference
- Simple press-in design
- Slot for easy removal

Aire™ MLPE Mount



Securely bonds MLPE and accessories to Aire™ Rails.

- Glove-friendly installation
- Lays flush in rail channel
- Low profile form factor

Aire™ All Tile Hook



Attaches rails to tile roofs, with Aire™ Dock included.

- Works on flat, S, & W tiles
- Single-socket installation
- Optional deck flashing

Resources



Design Assistant

Quickly go from rough layout to fully engineered system.

Go to IronRidge.com/design



Approved for FL Hurricane Zones

Aire™ has Florida Product Approval. Additional details can be found on the Florida Building Code website.

Learn More at bit.ly/florida-aire



CONTRACTOR

VALLEY SOLAR LLC

PHONE: 413-584-8844

ADDRESS: 116 PLEASANT ST SUITE 321
EASTHAMPTON, MA 01027

LIC. NO.:

HIC. NO.: 186338

ELE. NO.: 664A1

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

NEW PV SYSTEM:
DC:14.190 kWp/ AC: 13.300 kWp

RUTH MAHONEY RESIDENCE

30 SPRUCELAND AVENUE
SPRINGFIELD, MA 01108

APN: 110650008

ENGINEER OF RECORD

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

RESOURCE DOCUMENT

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

REVISIONS

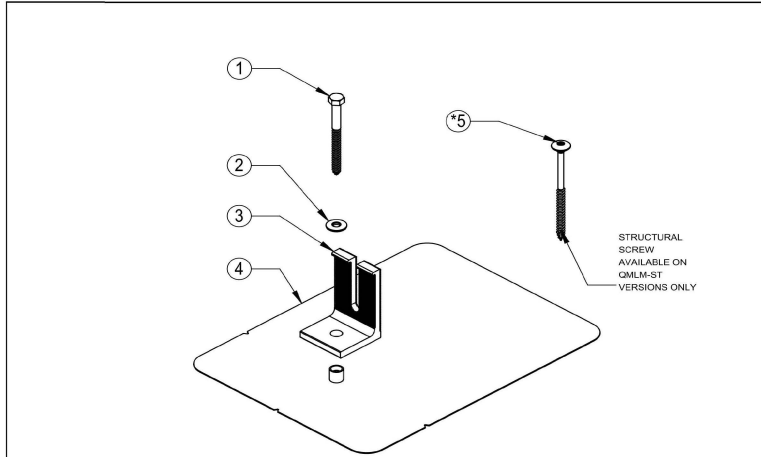
R-004.00

(SHEET 14)



QM-LM-01-M1

Cut Sheet



ITEM NO	DESCRIPTION	QTY IN KIT
1	LAG SCREW	1
2	WASHER, SEALING, EPDM BONDED SS	1
3	OPEN SLOTTED L-FOOT, MILL/BLACK	1
4	FLAHING, ROUNDED CORNERS, MILL/BLACK	1
5	STRUCTURAL SCREW	1

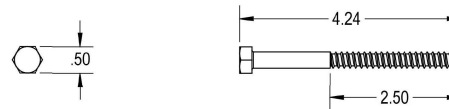
PART NUMBER	DESCRIPTION
QM-LM-01-M1	L-MOUNT, OPEN SLOT
QM-LM-01-B1	L-MOUNT, OPEN SLOT, BLACK
QM-LMST-01-M1	L-MOUNT, OPEN SLOT, STRUCTURAL SCREW
QM-LMST-01-B1	L-MOUNT, OPEN SLOT, STRUCTURAL SCREW, BLACK

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QM-LM-01-M1
Cut Sheet Rev 1.0



1) LAG SCREW



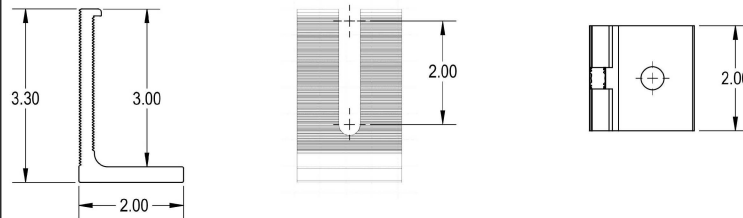
Property	Value
Material	300 Series Stainless Steel
Finish	Clear

2) WASHER, SEALING, EPDM BONDED SS



Property	Value
Material	300 Series Stainless Steel
Finish	Clear

3) OPEN SLOTTED L-FOOT, MILL/BLACK



Property	Value
Material	6000 Series Aluminum
Finish	Mill

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QM-LM-01-M1
Cut Sheet Rev 1.0



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VALLEY SOLAR LLC

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NEW PV SYSTEM:
DC: 14.190 kWp / AC: 13.300 kWp

**RUTH
MAHONEY
RESIDENCE**

30 SPRUCELAND AVENUE
SPRINGFIELD, MA 01108

APN: 110650008

ENGINEER OF RECORD

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

RESOURCE DOCUMENT

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

REVISIONS

R-005.00

(SHEET 15)

Product	Tesla Solar Inverter
Last Revised	June 12, 2023
Revision	1



SETTING CURRENT LIMITS FOR TESLA SOLAR INVERTER



CONTRACTOR

VALLEY SOLAR LLC

PHONE: 413-684-8844

ADDRESS: 116 PLEASANT ST SUITE 321
EASTHAMPTON, MA 01027

LIC. NO.:

HIC. NO.: 186338

ELE. NO.: 664A1

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NEW PV SYSTEM:
DC: 14.190 kWp / AC: 13.300 kWp

RUTH MAHONEY RESIDENCE

30 SPRUCELAND AVENUE
SPRINGFIELD, MA 01108
APN: 110650008

ENGINEER OF RECORD

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

RESOURCE DOCUMENT

DATE: 11.10.2025

DESIGN BY: O.L.

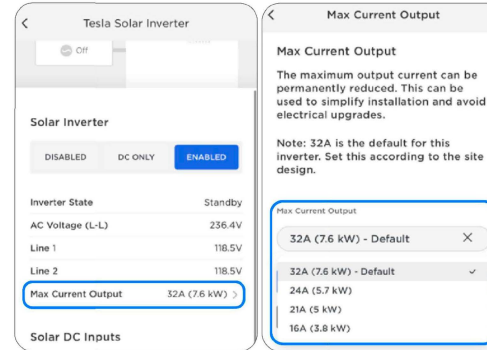
CHECKED BY: M.M.

REVISIONS

R-006.00

(SHEET 16)

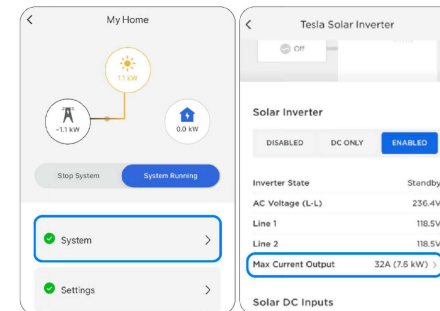
2. Select **System** from the landing page, then select the Solar Inverter from the *Devices* tab.
3. Select **Max Current Output**.
4. Select the desired **Max Current Output** and select **Done**.



Current Limit Setting Verification

Settings should be verified by the utility or AHJ after the system has been installed and commissioned. Verification of settings can be accomplished by viewing the site's Setup App *Inverter* page, included with the PCS Settings Application Document. To verify the setting:

1. Follow the steps above to launch Tesla Pros and connect to the system.
2. Select **System** from the landing page, then select the Solar Inverter from the *Devices* tab.
3. View the **Max Current Output** on the *Solar Inverter* screen.



Tesla Product Safety Compliance

codecompliance@tesla.com

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Page 2 of 2

Power Control Systems (PCS): Current Limit

The Tesla Solar Inverter is listed to the requirements in UL 1741 PCS and can permanently set the output current (A), and associated power (AC kW) through the Max Current Output setting within the PCS software. This feature can be used to limit system backfeed to avoid costly main service panel upgrades or main breaker downsizes for backfeed compliance purposes. Additionally, this feature can be used where existing utility infrastructure limitations dictate a maximum allowable AC system size. A Current Limit has been set on the following customer site:

Customer Name Ruth Mahoney
Customer Address 30 Spruceland Avenue
Springfield MA 01108

UL 1741 PCS

The following Tesla Solar Inverter model number(s) have been certified to the standards in UL 1741 PCS and have the Current Limit function.

Tesla Product	Model Number(s)	Site Controller Location	Nationally Recognized Testing Laboratory (NRTL) Test Report
Solar Inverter	1538000-45-y	Integrated in the Solar Inverter	TÜVRheinland: US23P05I.001

The Current Limit(s) configured at the customer site listed above are indicated in the following table:

Available Current Limit Settings (A)

Current Setting	Output Power
<input type="checkbox"/> 32A	7.6 kW (default)
<input checked="" type="checkbox"/> 24A	5.7 kW
<input type="checkbox"/> 21A	5.0 kW
<input type="checkbox"/> 16A	3.8 kW

Setting the Current Limit and Access Protection

The Current Limit is set at the time of installation by qualified personnel. In compliance with Article 750.30(C)(3)(5) of the 2023 National Electric Code, it is password protected and is only accessible to Tesla Tier 2 support if adjustments are required. To set a Current Limit:

1. Open the Tesla Pros app and launch the **Commissioning** experience from the main menu. Follow the prompts to connect to the system.

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UL 3741 LISTED SYSTEM WITH TESLA EQUIPMENT

TESLA ELECTRICAL EQUIPMENT WITH MAXIMUM SYSTEM VOLTAGE 600V:

The Aire UL 3741 certification is applicable when used with Tesla's MCI-1 string isolation device in combination with either a Tesla PV Inverter, Powerwall+, or Powerwall 3 Power Conversion System (PCS).

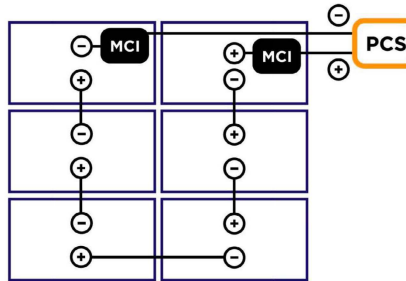
String Isolation Devices (SID)	PV Inverter (PVI)	Energy Storage Systems
Tesla MCI-1 (1550379-00-F) Max Voltage = 600V, Max Imp = 13A, Max Isc = 19A	7.6 kW (1538000-xx-y) 3.8 kW (1534000-xx-y)	Powerwall+ (1850000-xx-y) Powerwall 3 (1707000-xx-y)

IMPORTANT: Refer to the applicable Tesla Inverter or Powerwall Installation Manual for specific instructions, including MCI-1 mounting, clearances, ratings, compatible connectors, and rapid shutdown initiation methods. MCI-1 installation configurations shown below are specific to the IronRidge Aire Flush Mount UL 3741 Listing and supersede MCI-1 configurations shown in the Tesla installation manuals.

Contiguous Arrays

Maximum Voltages After Rapid Shutdown Initiation:
Outside Array Boundary: $\leq 30V$ (30 seconds)
Inside Array Boundary: $\leq 600V$

Where one or more PV strings are connected within a single contiguous array as shown in the figure, Tesla MCI-1s shall at a minimum be installed at both the positive and negative ends of each string between the last module and the homerun to the PCS. If there are multiple arrays each shall be equipped with MCI-1s as shown in the figure.

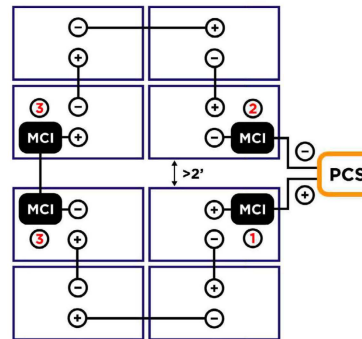


Non-Contiguous Sub-Arrays

Maximum Voltages After Rapid Shutdown Initiation:
Outside Array Boundary: $\leq 30V$ (30 seconds)
Inside Array Boundary: $\leq 600V$

Where any string is connected across non-contiguous sub-arrays separated by more than 2' (see example figure), MCI-1s shall be installed as follows:

- At the positive end of the string between the last module and the PCS homerun.
- At the negative end of the string between the last module and the PCS homerun.
- At both ends of the connection between sub-arrays.



CONTRACTOR

VALLEY SOLAR LLC

PHONE: 413-584-8844

ADDRESS: 116 PLEASANT ST SUITE 321
EASTHAMPTON, MA 01027

LIC. NO.:

HIC. NO.: 186338

ELE. NO.: 664A1

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NEW PV SYSTEM:

DC: 14.190 kWp / AC: 13.300 kWp

RUTH MAHONEY RESIDENCE

30 SPRUCELAND AVENUE
SPRINGFIELD, MA 01108

APN: 110650008

ENGINEER OF RECORD

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

RESOURCE DOCUMENT

DATE: 11.10.2025

DESIGN BY: O.L.

CHECKED BY: M.M.

REVISIONS

R-007.00

(SHEET 17)



116 Pleasant St. Suite #321, Easthampton, MA 01027
413-584-8844

CONSTRUCTION AGREEMENT

CLIENT:

Ruth Mahoney
30 Spruceland Avenue Springfield, MA 01108

(413) 297-3487
rkniskamahoney@gmail.com

CONTRACTOR:

Valley Solar, LLC.
116 Pleasant Street, Suite 321
Easthampton, MA 01027
Mike Hempstead, President
Patrick Rondeau, General Manager
HIC Registration No. 186338

Purpose of Construction Agreement: This document (herein “Agreement”) shall govern and set forth the understanding between Valley Solar, LLC. (herein “Contractor”) and the above-named Client relating to construction of a certain solar energy project described herein and variously referred to as “System” or “Project”.

Right to Cancellation and Limitation of Liability: Client or Contractor may cancel this Agreement in writing to the other party prior to commencement of construction. Should Client cancel this Agreement after its acceptance, Client’s deposit will be considered non-refundable compensation for any estimates produced and for preparation of these documents. In addition, Client will be responsible for direct costs exceeding the deposited amount, any work performed, or equipment installed by Contractor or Contractor’s affiliates in furtherance of this Project prior to Client’s cancellation. In no case shall Contractor be liable for costs borne by Client outside of this Agreement such as costs for site preparation, removal of trees, re-roofing or electrical work.

Scope of Work: Contractor proposes to provide all materials, secure all permits and perform all labor necessary for the completion of Project as described on the attached Project Specification Sheet for Client.

Site Changes: Client must notify Contractor of any site changes that may impact Contractor’s work. Any site changes made to the site by Client after the site assessment and construction agreement are executed, but before Contractor’s installation may affect pricing and installation timeline. Client is responsible for any additional labor or material costs incurred due to changes.

Exclusions: Unless specifically included in the Scope of Work above and the attached Project Specification Sheet, Contractor is not responsible for structural building reinforcement, roof upgrades, or corrections of code deficiencies of existing electrical systems or provision of internet access or networking equipment.

Utility Interconnection Agreements and Municipal Permits:

- **Interconnection agreements:** Contractor shall submit on behalf of Client an Interconnection Service Agreement (ISA) with Client's utility in compliance with all applicable laws and regulatory requirements. Standard ISA permit fees are included with this contract, however, should utility studies or equipment upgrades be required by the utility for interconnection of this project, those fees would fall outside the scope of this agreement and would be the Client's responsibility, should Client wish to proceed.
- **Municipal Permits:** Contractor shall submit on behalf of Client the applications necessary to acquire required building and electrical permits from Client's municipal granting authorities. Contractor shall not be held responsible if permits fail to issue.

Addenda: The following documents, by reference, are included as addenda to this agreement:

- 1) Project Specification Sheet
- 2) Trenching & Excavation Agreement
- 3) Valley Solar System Warranty Coverage
- 4) Notice of Client's Right of Cancellation

Additions to or Alterations of Agreement: Any alteration, deviation or addition to the specified work as set forth in this Agreement involving additional costs or equipment substitutions, will be performed only if required by code or at the request or agreement of Client and will be quoted by Contractor and agreed to in a written "Change Order" prior to performance of work.

Worksite Access: Client agrees that during normal working hours designated as 7:00 AM to 6:00 PM Monday-Friday, excluding holidays, Contractor will have unrestricted access to the worksite, its structures, and facilities, as necessary, for work to be performed by Contractor and that access will be provided for municipal building and electrical inspectors with 24-hour notice.

Network Access: Client understands that PV and/or battery energy storage system monitoring and reporting require internet/network access and agrees to provide access to existing or new network ports or wireless connections. Costs associated with installation of any new network equipment necessary (including, but not limited to, routers, switches, wireless repeaters, etc) are the responsibility of the Client; network upgrades, if required, are not covered by this agreement and will be charged separately.

Service Calls: To ensure a prompt response, all service call requests, along with warranty issues should be brought directly to Contractor's attention by emailing: support@valleysolar.solar. This includes work performed by Contractor's employees, their subcontractors and preferred vendors.

Incentive Reporting & Tax Incentives: Contractor shall prepare and submit applications and associated fees, if necessary, to pursue Massachusetts solar or battery-storage incentive programs. Contractor shall not prepare or submit any documents on the Client's behalf related to tax filings or tax credits. Client is responsible for maintenance of internet connection and required system participation or reporting. Under no circumstances is Contractor liable for any

losses related to a Client's non-participation or failure to report in any incentive or performance programs.

Contractor will provide details on all available state and federal tax incentives in good faith, however it is Client's responsibility for ensuring Client's own eligibility for tax credits and other incentives.

Home Improvement Contractor Law and Arbitration Provisions:

Valley Solar's Home Improvement Contractor (HIC) registration number is provided at the top of this Agreement. All contractors and subcontractors must be registered by the Commonwealth's Director of Consumer Affairs and Business Regulation (the "Director"). Any inquiries about a contractor or subcontractor relating to registration should be directed to the Director: Office of Consumer Affairs and Business Regulation, Home Improvement Contractor Registration, 10 Park Plaza, Room 5170, Boston, MA 02116 (617) 973-8700.

CONTRACTOR AND CLIENT HEREBY MUTUALLY AGREE IN ADVANCE THAT IN THE EVENT CONTACTOR HAS A DISPUTE CONCERNING THIS AGREEMENT, CONTRACTOR MAY SUBMIT SUCH DISPUTE TO A PRIVATE ARBITRATION SERVICE WHICH HAS BEEN APPROVED BY THE SECRETARY OF THE EXECUTIVE OFFICE OF CONSUMER AFFAIRS AND BUSINESS REGULATIONS AND THE CLIENT SHALL BE REQUIRED TO SUBMIT TO SUCH ARBITRATION AS PROVIDED IN MGL CHAPTER 142A.

Client Initial: RM

Contractor Initial: MJ

Client Initial:

Note: Initials pertain only to the agreement of the parties to alternative dispute resolution initiated by the Contractor. The Client may initiate alternative dispute resolution even where this section is not separately signed by the parties.

Project Milestone Definitions: Per the System Cost and Payment Schedule below, the following definitions apply:

- "Deposit Due" – If not already paid, due upon contract signing.
- "Permitting" – Contractor's submission of interconnection application.
- "Construction Start" – Commencement of onsite construction.
- "Substantially Complete" – System constructed, and all final inspections successfully passed.
- "System Activation" - Issuance of Utility Permission to Operate.

Contractor will expedite delivery of municipal and utility documentation to ensure timely approvals. Contractor is not responsible for delays related to utility or municipal inspections, utility-installed equipment or upgrades, or utilities written Permission to Operate.

Acceptable Payment Methods: Contractor expressly stipulates that its accepted modes of payment are limited to checks or ACH bank transfers. ACH payments may be made securely

through the invoice link provided via email. Credit cards are only accepted for initial deposits of \$500 or under.

System Cost and Payment Schedule

PROJECT SPECIFICATION SHEET CLIENT INFORMATION	
Client Name(s)	Ruth Mahoney,
Address	30 Spruceland Avenue Springfield, MA 01108
Primary Phone	(413) 297-3487
Email	rkniskamahoney@gmail.com
Consultant	Martin Jutres

PV SYSTEM SPECIFICATIONS			
PV Panels	JKM430N-54HL4-B	Quantity	33
Inverter Type 1	Tesla Solar Inverter 7.6 [240V]	Quantity	1
Inverter Type 2	Tesla Solar Inverter 7.6 Derate to 5.7KW [240V]	Inverter Type 2 Quantity	1
System Size (kW DC)	14.19	System Size (kW AC)	13.3
System Production kWh/Yr1 as validated by Valley Solar Design*	11382	Snow Guard Quantity	18
PV System Export Limit	<u>N/A</u>	LIMIT	<u>N/A</u>

ADDITIONAL PROJECT DETAIL	
<p>Pre-Installation Requirements</p> <p>*The listed work is to be completed by the client prior to installation</p>	<ul style="list-style-type: none"> • Clear a 5-foot working clearance around the main electrical panel and meter. • Provide internet access for ongoing system connectivity.

Service Upgrade Notes*	N/A
Add'l. Service Notes*	N/A
* If blank, no additional services needed.	

SOLAR COST	
Solar Cost	\$43,934.00
N/A	N/A

PROJECT ADDITIONS		
EV Charger Cost	N/A	N/A
Snow Guards Cost	18	\$1,380.00
Trenching Cost	N/A	N/A
Additioanal Services Cost	N/A	N/A
Service Upgrade Cost	N/A	N/A

PROJECT COST SUMMARY	
Total Project Cost	\$45,314.00
<u>N/A</u>	<u>N/A</u>
Deposit Received*	\$500.00
Remaining Balance (Cash or Finance)	\$44,814.00

PAYMENT SCHEDULE	
-------------------------	--

* Note: Valley Solar also accepts lender disbursements.	
Total Cash Payment Amount	\$44,814.00
Permitting	\$1,500.00
Construction Start (Due 4 weeks before)	\$19,491.00
Substantially Complete (Final inspections approved)	\$19,491.00
System Activation	\$4,331.00
N/A	N/A
N/A	N/A


Approximate Date Work to Begin: Winter/Spring 2026

Entire Agreement: It is agreed that the information contained herein represents the entire agreement between Client and Contractor and that no other representations whether oral or written are implied.

Client is advised not to sign this Agreement unless all blank sections have been filled in, marked void, deleted or not applicable and until all exhibits and related or referenced documents that are incorporated herein are attached.


Client acknowledges receiving a copy of this contract at the time of signing.

Authorized Signatures

VS Sales approval: 

Date: 11/6/2025

Contractor:  Martin Jutres Date: 11/6/2025

Client:  Ruth Mahoney Date: 11/7/2025

Client: Date:



116 Pleasant St. Suite #321, Easthampton, MA 01027
413-584-8844

SYSTEM WARRANTY

LIMITED WORKMANSHIP WARRANTY: Valley Solar warrants that the Client's photovoltaic system, henceforth "the System," will be constructed of new materials (unless otherwise specified) to meet all applicable requirements of law, applicable engineering and construction codes and standards, and in accordance with all OEM (Original Equipment Manufacturer) component specifications. Valley Solar warrants that, under normal use and service conditions, the System will be free from defects in workmanship for Ten (10) years following the date of installation (the "Limited Warranty").

If under this Limited Warranty a defect or deficiency is discovered during the Warranty Period, then upon notice, Valley Solar shall repair, replace and/or correct the problem on a reasonably expedited basis.

This Limited Warranty covers Valley Solar's, or its affiliates or subcontractor's, system installation and wiring including installation hardware, brackets and supports and wiring components not otherwise covered by an OEM warranty.

WARRANTY PERIOD: The effective date for the warranty shall be considered the date upon which the system is placed into service, i.e. the Utility PTO/ATO or "Permission/Approval to Operate" date. The first year of warranty coverage, then, will be one year from the placed-in-service date.

This Limited Workmanship Warranty provides the following coverages:

- Years 1-10: No-charge Phone and Online Support.
- Years 1-5: Unlimited field service support for correction of workmanship defects including service visit mobilization charges.
- Years 6-10: 30% discount on onsite warranty service labor for workmanship defects including service visit mobilization fees.

WARRANTY EXCLUSIONS:

1. Production / energy storage-related losses: This Limited Warranty does not cover any losses, including lost utility savings, or other incentives directly or indirectly originating from workmanship defects, or from failure of OEM components, regardless of whether such losses are warranted under the OEM equipment warranty. If your system is covered by a SunAlert 95% Performance Guarantee, other coverages may be available to you in addition to what is provided in this Workmanship Warranty. See SunAlert documentation for details.
2. Equipment failures or equipment performance troubleshooting and correction which are not a result of installation workmanship defects.
3. Loss of internet connectivity or failure or obsolescence of networking communication

- hardware; except where such failure is a direct result of installation workmanship defects.
4. Non-workmanship-related problems: Problems in one or more areas that have not been caused by the installation, or if the problems are not an actual problem of the System (e.g. shade, unauthorized alterations to the System, loss of internet connectivity, roof issues not associated with the solar), are not covered by this warranty.

SERVICING OF OEM COMPONENTS: Valley Solar shall assign all OEM warranties to Client after system completion. For any OEM service work performed by Valley Solar, Valley Solar shall submit, process and pursue, at its own cost, such OEM warranty coverage that is available under the applicable OEM warranty. Valley Solar will deduct any labor reimbursements or warranted replacement parts provided by OEM for services performed.

ROOF WARRANTY APPROVAL: Based on Valley Solar's site inspection and warrantability of this properties' roof, this 10 years Roof Penetration Warranty **IS in effect**.

LIMITATION ON WARRANTY: Except as expressly provided herein or in any additional warranty Valley Solar provides, Valley Solar makes no independent warranty or representation, either express or implied, regarding the System, including any warranties beyond those provided by the manufacturers. To the maximum extent permitted by law, any and all implied warranties beyond the terms of this Limited Warranty, are expressly disclaimed. For purposes hereof, the term "Warranty Period" shall mean a period of Ten (10) years from the the date upon which the Customer's system was "placed into service."

Contractor's Roof Penetration Warranty applies only to areas directly within 3" of any penetrations the contractor, or contractor's authorized subcontractor, made in performance of this contract where it can be determined that a roof leak originated from such roof penetrations. Should a roof penetration leak be found under the terms of this warranty, then it will contractor's obligation to repair the leak either directly or through a subcontractor hired and paid by the contractor for such purpose. This warranty does not create an obligation to repair, replace, or pay for any other damages incurred as a result of the leak.

The Roof Penetration Warranty specifically excludes leaks caused by other sources such as improper flashing of the roof, or roof penetrations made by other contractors such as skylights or plumbing vents or from failure of roof materials or Force Majeure events or any other casualty that could damage or cause the roof to leak. The roof penetration warranty is not a warranty of the workmanship of the roof installation contractor, nor is it a warranty of the materials used on the roof.

Should a leak to the roof occur for any reason other than through the roof penetrations made by Valley Solar or its subcontractors in the performance of this contract, Valley Solar is not liable for the repair of such leaks, nor is Valley Solar liable to bear the cost of the removal and replacement of the system to render access to the roof to other contractors.

The Contractor's assessment, opinion, or omission thereof regarding the adequacy of the client's roof condition does not constitute a warranty, obligation, or assurance that the roof will remain in suitable condition for the life of the solar installation or the estimated remaining life of the roof.

TRANSFERABILITY: Warranty is fully transferable one time from original owner to immediate subsequent owner but is not transferable beyond that.

NOTICE OF CANCELLATION

Customer may cancel this transaction, without any penalty or obligation, within three business days (calculated below) from the date of entering into the Agreement.

Upon cancellation any payments made under the contract or sale, and any negotiable instrument executed, will be returned within 10 business days following receipt by the Contractor of cancellation notice less any expenses made by the Contractor as outlined on page 1 of this contract and any security interest arising out of the transaction will be cancelled.

Upon cancellation, Customer must make available to the Contractor at the proposed job site or other site as mutually agreed to, in substantially as good condition as when received, any goods delivered under this contract or sale; or comply with instructions of the Contractor regarding the return shipment of the goods at the Contractor’s expense and risk.

If Customer does make the goods available to the Contractor and the Contractor does not pick them up within 60 days of the date of notice of cancellation, Customer may retain or dispose of the goods without any further obligation. If Customer fails to make the goods available to the Contractor or agrees to return the goods to the Contractor and fails to do so, then Customer remains liable for performance of all obligations under the contract. To cancel this transaction, mail or deliver a signed and dated copy of this cancellation notice or any other written notice to Valley Solar LLC, 116 Pleasant St. Suite #321, Easthampton, MA 01027, or send an e-mail to info@valleysolar.solar, no later than midnight of three days after agreement is signed.


I hereby cancel this transaction.

(Customer’s Signature)

(Date)

ACKNOWLEDGEMENT OF RECEIPT

The undersigned Clients each acknowledge receipt of the two copies of the rescissions notice on which this acknowledgement is printed.

 *Ruth Mahoney*

(Customer’s Signature)

11/7/2025

(Date)

(Customer’s Signature)

(Date)

Materials Pricing Volatility Clause

Valley Solar's proposal is based on equipment and materials pricing currently available or reasonably expected to be available at the time of construction, in accordance with the specifications and timeline outlined in this agreement.

Due to fluctuating tariffs and global supply chain instability, the availability and cost of specified materials cannot be guaranteed between the date of this agreement and the start of installation. If, through no fault of Valley Solar, a significant delay or price change occurs during or prior to performance, the contract price, timeline, or material specifications may be adjusted through a mutually approved change order.

A price change will be deemed **significant** if the cost of a listed item increases or decreases by more than **5%** between the date of this agreement and the date of installation. In such cases, the adjustment will apply only to the portion of the change exceeding 5%. No adjustment will be made for changes less than or equal to 5%. If Valley Solar requests a price increase under this clause, it will disclose the original price of the affected item.

This provision applies to major system components, including but not limited to solar panels, inverters, battery systems, racking, and other high-cost electrical infrastructure directly related to solar and energy storage installation.

Right of Termination

If a specified material becomes unavailable or subject to a significant price increase, Valley Solar will issue a written change order identifying:

- The affected material
- The percentage and dollar amount of the price change
- Any proposed substitute material

The Customer may then:

- Accept the change order, or
- Terminate this agreement by providing written notice to Valley Solar within **3 business days**

If no response is received within that time, Valley Solar may terminate the agreement at its discretion

If the agreement is terminated

- The Customer's initial deposit shall be forfeited
- The Customer agrees to pay Valley Solar for all actual costs incurred in permit applications, engineering, or site preparation work — including any site or electrical work performed by Valley Solar or its subcontractors — that exceed the value of the initial deposit.

Client:

 Ruth Mahoney

Date: 11/7/2025



The SunAlert Solar Performance Plan: Performance Monitoring, plus a 95% Solar Production Guarantee

1. SunAlert Performance Monitoring Subscription

Your system includes a complimentary **SunAlert Performance Monitoring Subscription** (the “Performance Monitoring Plan”) for **10 years** from its in-service date (Permission to Operate or PTO).

Using advanced AI and sophisticated system modelling, SunAlert continuously compares your system’s actual performance against its weather-adjusted performance baseline. This proactive monitoring identifies actionable shortfalls immediately—before they turn into costly energy losses—ensuring maximum energy production and reliability.

Subscribers enjoy:

- **Priority scheduling** for service appointments.
- **Live customer support** during normal business hours.
- **24/7 online access** to open, update, and review service tickets.
- **Automated issue detection and resolution**, minimizing downtime.

SunAlert is a proprietary platform, developed in-house by Valley Solar's technology team, designed specifically to safeguard and optimize your solar investment through precise, proactive, and responsive service.

SunAlert currently has thousands of systems under monitoring from every major inverter brand and is exclusively available from Valley Solar.

SunAlert monitors your system, so you don't have to!

2. SunAlert 95% Solar Production Guarantee

The **SunAlert 95% Solar Production Guarantee**, as defined below, guarantees your system will produce at least 95% of its **projected kwh production as indicated on page 4 of this agreement over two (2) 12-month guarantee periods, or SunAlert will pay you the difference in cash** at the rate of \$0.30/kwh within 30 days of a valid claim submission, subject to the Terms and Conditions of this agreement.

The SunAlert 95% Production Guarantee gives you peace of mind in three ways:

1. That your system's production estimate is accurate.
2. That your system was installed properly.
3. That maintaining your system's uptime is a high priority to us.

The SunAlert 95% Solar Production Guarantee Terms and Conditions

(a) The SunAlert 95% Solar Production Guarantee guarantees your system will achieve at least 95% of its projected age-adjusted production as measured in kWh or you get paid cash to make up the difference, up to a maximum of \$800 per 12-month Guarantee Period, as further described herein.

The SunAlert Production Guarantee is not an insurance policy or an equipment warranty but is an enhanced "production assurance guarantee" (or "Production Guarantee") backed up by cash payments.

The production assurance provided by SunAlert does not replace or diminish the coverages provided by your workmanship warranty or any coverage that may be provided by equipment manufacturers but is an additional "production assurance" layer.

(b) Guarantee Periods: The Guarantee Period begins on the first day of the second full month after the system receives "Permission to Operate" (PTO) and is placed into service and ends on the last day of each 12-month period thereafter for a total of two (2) 12-month periods. **Projected annual production shall mean the kWh value listed on page 4 of the agreement in the box labelled "Projected kWh Production (year 1)". The "Guaranteed Annual Production" for the first guarantee period shall be 95% of the "Projected annual Production".** The annual Production Guarantee for the second 12-month Guarantee Period will be reduced from the preceding one by an annual system degradation rate of - **0.5%/year**. Actual Annual Production shall mean the number of kWhs of electricity produced and measured by the System hardware and reported through Customer maintained internet connectivity and networking connections to SunAlert.

(c) Reporting, Claim and Payment: At the inception of the first Guarantee Period, Customer will be assigned an account with a \$0.00 balance (the "Initial Balance"). At the end of each 12-month Guarantee Period, provided System Communications are active in accordance with section (2f) at the end of the

Guarantee Period. If qualifying system losses bring system production below 95% of age-adjusted Projected Annual Production, then Customer will be eligible to receive a cash payout of the June 25, 2025 Valley Solar LLC Construction Agreement difference at the rate of \$0.30/kwh x qualifying system losses as defined below. To make a claim for payment, customer may email support@valleysolar.solar, call Valley Solar's support department, or initiate a claim on Valley Solar's support page. Payment will be made by check or ACH transfer by SunAlert within 30 days of the end of the Guarantee Period upon a validated claim of qualifying system losses. Once payment is made, or if system performance falls within 5% of Projected Annual Production, then Customer's account will be reset to \$0.00 for the subsequent Guarantee Period, if applicable. If, however, the system "overproduces" as compared to the age-adjusted Projected Annual Production by greater than 105% of annual system production for the Guarantee Period, then the difference between system over-performance and 105% of Projected Annual Production as measured in kWh will be kept on account and carry over to offset any subsequent performance shortfalls in subsequent Guarantee Periods if applicable. Under no circumstances, however, will Customer be asked to pay SunAlert for system over-performance.

(d) Covered System and Owner: The SunAlert Performance Guarantee applies only to the original Owner named herein and only applies to the production of the solar PV system as described herein and installed at the location and in the manner described herein, not any other system whether purchased or owned by the same customer or relocated to a new property or modified in any way.

This guarantee does not cover the performance of connected systems or devices including but not limited to Batteries, EV chargers, Smart Electric Panels or Home Automation Systems, or apps. Should the actual "as built" system differ in any material way from the system as described herein due to the Contractor's inability to install the system as initially designed, or at the request of Customer or jurisdictional authority, then the Projected Annual Production number will be adjusted by SunAlert based on a performance simulation of the "as built" system design which will be appended to this document, and this revised figure will be used as the benchmark against which to calculate potential system production shortfalls.

SunAlert has the sole authority to set a revised production number and will do so based on the same methodology by which the original Annual Production Number was set. If a performance simulation of the "as built" system will not be practicable, SunAlert may, at its discretion, utilize a 30-day performance validation period from which to extrapolate and set a new Expected and Guaranteed Performance benchmark. This may delay the start of the Guarantee Period but will not be used to do so unreasonably. **This agreement only covers the original owner named on this agreement and may not be transferred or assigned. If the Customer sells or conveys the Property, this Agreement will terminate on the date of sale.**

(e) Disclaimers and Exclusions: The SunAlert 95% Performance Guarantee does not cover system losses or damage caused by the following as reasonably determined by SunAlert:

Unauthorized system modifications or repairs other than those performed by SunAlert or its Authorized Agent; Utility power outages, faults, voltage surges or lightning strikes that cause downtime or damage system components; Damage to physical system components by external forces including but not limited to hail, projectiles, other natural disasters, tree limbs, humans, animals, or other; Losses occurring during lapses of Customer-provided system communications connectivity; System being placed in "non-export" mode or any similar mode that precludes the system from exporting to the grid; Customer non-responsiveness or failure to provide access to render system repairs or inspections within five business days of a SunAlert service visit request; Soiling of the system including by sap or soot; System removal or deactivation including but not limited to for the purpose of making roof repairs or replacement; Additional shading inputs not present at system installation including but not limited to

new building structures, flags, or vegetation growth; Deactivation of the system by Customer, Customer's agent, municipal authority, or financial creditor; Any period during which Customer is in arrears to SunAlert or its Authorized Agent; System component part recall, or unavailability of replacement parts through distribution channels outside of the control of SunAlert; Equipment manufacturer insolvency or discontinuation of API monitoring data availability; Force Majeure Event (as defined herein in section 6(a)).

Should system losses occur through any excluded means, those losses will be reasonably quantified by SunAlert and will be deducted from the expected system production and Guaranteed Performance figure will be adjusted accordingly. Should excluded losses account for over 40% of expected system performance in a given Guarantee Period, then the SunAlert 95% Guarantee will be void for that period due to the impracticality of calculating expected system production.

(f) Customer's Responsibility: It is Customer's responsibility to maintain networking and internet communications to the system to facilitate remote monitoring and diagnostics, any system losses or lost data that occur as a result of lost communications are excluded from this agreement; Keep system in "export mode" and not in "no export" or "zero export" mode such that **exporting excess energy to the grid is enabled**; SunAlert may install supplemental monitoring or network devices such as meters or system data collectors as needed, but this does not diminish Customer's responsibility to maintain communications; Pay any invoices for non-covered service labour or parts and remain in "Good Standing" with SunAlert or its Authorized Agents; Provide reasonable access to the system for SunAlert or its authorized agents to schedule and facilitate repair or inspections of the system within normal business hours of 8 AM – 5 PM Monday-Friday excluding Federal Holidays; Reasonably assist SunAlert in remote troubleshooting efforts such as by providing requested pictures or allowing access to app data; Keep the system free of debris, soiling, and new shading inputs, including by vegetative growth. Customer activities and operations related to this agreement are and will at all times be in full compliance with all applicable federal, state, and local laws, regulations, and ordinances.

(g) Limitation of Liability: SunAlert shall not be liable for any damages, losses, or claims arising out of or related to any services or issues that are not directly related to the services provided for under this agreement. The **SunAlert 95% Performance Guarantee** limit of liability for any Guarantee Period shall be the lesser of qualified system losses calculated as described herein or \$800. Under no circumstances will covered losses exceed \$800 per Guarantee Period. Losses are only calculated and paid at the end of a Guarantee Period and will never be pro-rated to a partial period. Customer must own the system at the end of the Guarantee Period to be eligible for payment. Customer must be in "good standing" without unpaid or past due invoices for service or installation work performed by SunAlert or its Authorized Agents to receive payment. This Performance Guarantee has no cash value and may not be redeemed for cash or credit. However, SunAlert may at its discretion determine that it is impractical or unsafe to service the system in consideration of site conditions or other present hazards or any other reason as determined by SunAlert and choose to "liquidate" its liability under this agreement by paying out the lesser of the \$800 limit of liability, accrued qualifying system losses at the time of "liquidation" or some other amount as mutually agreed. This agreement is "closed-ended" and may not be renewed for any Guarantee Period beyond what is indicated in this agreement without an additional written agreement provided by SunAlert. **SunAlert is not and shall never be liable for the cost of purchasing or repairing system components that are out of warranty.** It is understood that the cash payout up the limit of liability stated herein is the sole and exclusive remedy for system losses. Under no circumstances will SunAlert be responsible for Consequential, Special, Punitive, Indirect or Incidental Damage in Contract or in Tort resulting from system losses or any actions under this agreement. Specifically, this includes but is not limited to loss of potential incentive monies.

(h) Warranties. THE SERVICES PERFORMED HEREIN EXPRESSLY EXCLUDE ANY SUCH DAMAGE CAUSED BY MISUSE, NEGLIGENCE, UNAUTHORIZED ALTERATIONS, NATURAL DISASTERS, OR OTHER EXTERNAL FACTORS BEYOND SUNALERT'S CONTROL. SUNALERT SPECIFICALLY PROVIDES ITS SERVICES LIMITED EXCLUSIVELY TO THE MONITORING SERVICES DESCRIBED HEREIN. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. EXCEPT AS OTHERWISE PROVIDED HEREUNDER, SUNALERT HEREBY DISCLAIMS, AND CUSTOMER HEREBY WAIVES, ANY AND ALL OTHER WARRANTIES WHETHER EXPRESS, IMPLIED, OR STATUTORY OR OTHER, WRITTEN OR ORAL, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.

(i) Termination. SunAlert may cancel this Agreement at any time, at its sole discretion, with five (5) days prior written notice to the Customer for any reason including but not limited to fraud, nonpayment, violation of the terms of this Agreement, or if required by regulatory authorities and Customer shall pay for services to the effective date of termination.

4. RIGHT TO CANCEL. Pursuant to M.G.L. c. 93, § 48, the Customer may cancel this Agreement, without penalty or further obligation, within three (3) business days of the date of entering into this agreement by providing written notice to SunAlert. If cancelled within this three (3) business day period, Customer is entitled to a full refund of any payments made under the Agreement within ten (10) business days following SunAlert's receipt of the cancellation notice. See Exhibit "A" attached hereto for Notice of Cancellation. SunAlert does not have any obligation to perform or provide services until following expiration of said three (3) business day period.

5. INDEMNIFICATION. To the fullest extent permitted by law, Customer shall indemnify, defend, protect, save and hold harmless SunAlert, its employees, officers, directors, agents, successors and assigns from any and all third party claims, actions, costs, expenses (including reasonable attorneys' fees and expenses), damages, liabilities, penalties, losses, obligations, injuries, demands and liens of any kind or nature arising out of, connected with, relating to or resulting from Customer negligence or willful misconduct; provided, that nothing herein shall require Customer to indemnify SunAlert for its own negligence or willful misconduct. The provisions of this paragraph shall survive termination or expiration of this agreement.

6. MISCELLANEOUS.

(a) Force Majeure. SunAlert shall not be liable for any delay or failure to perform its obligations under this Agreement due to causes beyond its reasonable control, including but not limited to, natural disasters, acts of terrorism, sabotage, riot, embargo, work stoppage, strike, explosion, industrial disaster, contamination, abnormal weather conditions (including abnormally low sunshine or dust storms or forest fires), energy crisis, power grid failure, civil unrest, rebellion, warfare or warlike operations declared or undeclared, public health emergencies, government regulations, unavailability of required parts, changes in utility revocation or limitation by civil authority of System permission to operate or export or record energy implemented after system design, or other such disturbances (each a "Force Majeure Event"). Upon the occurrence of a Force Majeure Event, SunAlert's obligations shall be suspended until the Force Majeure Event has ended, and the time for performance shall be extended accordingly.



A 20
740



A 21
740



Customer Information / House number photo



Home Photos / Photo: Front of Home (include address number)



Home Photos / Photo: Right Side of Home



Home Photos / Photo: Right Side of Home



Home Photos / Photo: Back Side of Home



Home Photos / Photo: Left Side of Home



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition



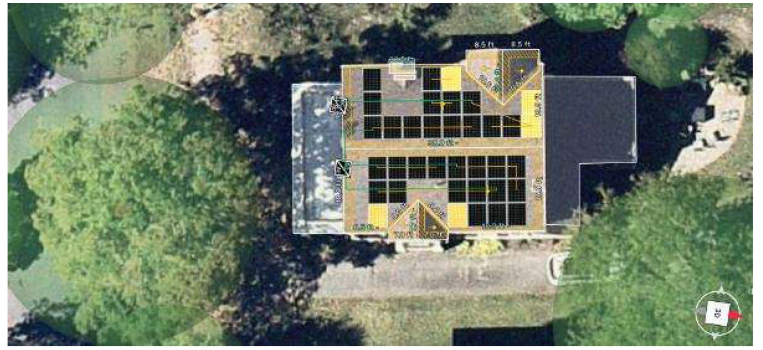
Roof Information / Photo: Roof Condition



Roof Information / Photo: Roof Condition

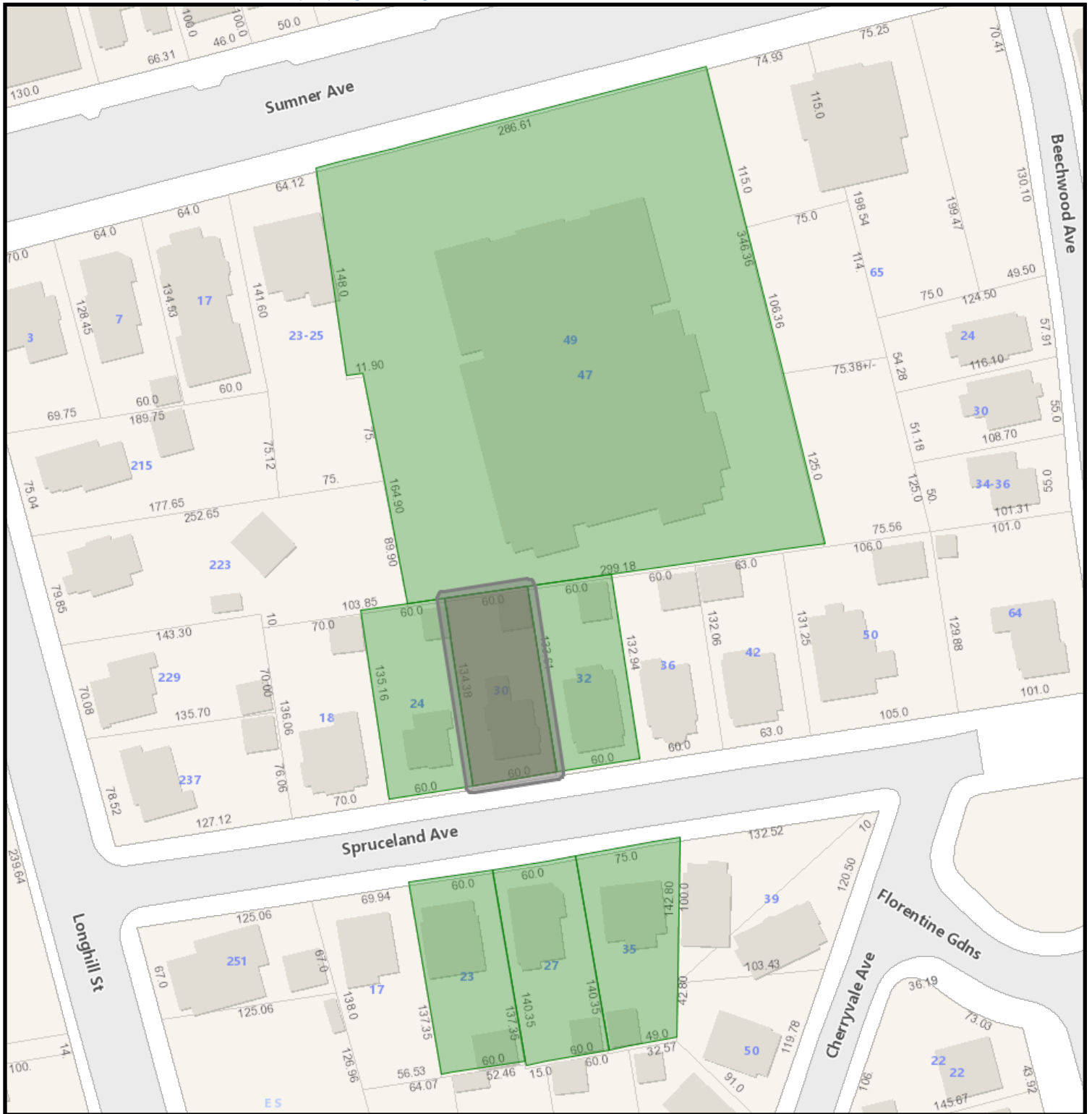


Notes / House Diagram



Notes / House Diagram



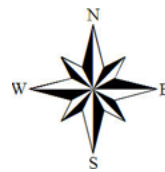


30 Spruceland Avenue GIS

12/3/2025 11:48:07 AM

Scale: 1"=100'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

110650010
COLLINS CHRISTOPHER &
32 SPRUCELAND AVE
SPRINGFIELD, MA 01108

110650042
CURTO ANTHONY W
27 SPRUCELAND AVE
SPRINGFIELD, MA 01108

110650006
GALIK MELISSA A & JAMES C
24 SPRUCELAND AVE
SPRINGFIELD, MA 01108

110650044
KOCH MICHELLE M
23 SPRUCELAND AVE
SPRINGFIELD, MA 01108

110650040
LE EMILY
30 HOYT AVE
LOWELL, MA 01852

110650008
MAHONEY STEPHEN R &
30 SPRUCELAND AVE
SPRINGFIELD, MA 01108

112800499
SPRINGFIELD CITY OF
45 SUMNER AV
SPRINGFIELD, MA 01108



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 21 Mountainview Street

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*



LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <u>Forest Park Heights</u>	DECISION:
DATE RECEIVED: <u>December 1, 2025</u>	DECISION DATE:
HEARING DATE: <u>December 18, 2025</u>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <u>December 4, 2025</u>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <u>December 4, 2025</u>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 21 Mountainview Street

APPLICATION TYPE (Select Application Type)

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 21 MOUNTAIN VIEW ST		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: AAD, LLC		
OWNER ADDRESS: <input type="checkbox"/> Check box if same as property address 605 SOUTHWICK ST, FERRIS HILLS, MA 01030		
OWNER PHONE NUMBER: 413-246-9477	REPRESENTATIVE/CONTRACTOR NAME: NIKOLAY DIPON	
OWNER EMAIL ADDRESS: aadrealtyllc@gmail.com ndipon@gmail.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 413-246-9477	
PROPERTY CODE: 08875-0021	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: ndipon@gmail.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): PLEASE SEE ATTACHED PAPER		<p>PROPOSED MODIFICATIONS (Please check all that apply)</p> <input checked="" type="checkbox"/> Windows (see Page 3) <input checked="" type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input checked="" type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED): PLEASE SEE ATTACHED PAPER		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

PROPERTY OWNER'S SIGNATURE

11/24/25
DATE

WINDOWS

Check box indicating that you are submitting an order sheet with renderings/brochure of the proposed windows.

Check box indicating that you are submitting photographs of the existing windows.

Check box indicating that you are aware of the City's Window Guidelines (click [here](#)).

Will the Dimensions of the Windows Change: Yes (Please Provide Details Below Under Additional Information) No

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE CURRENT WINDOWS:

CURRENT ONES ARE NEW REPLACEMENTS. OLD ONES WERE FIRE DAMAGED

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE WINDOWS:

FIRE DAMAGE

NUMBER OF WINDOWS TO BE REPLACED/ADDED:	40
NEW WINDOW MANUFACTURER:	ANDERSON
MODEL NUMBER(S):	

	EXISTING	PROPOSED
MATERIAL (e.g. wood, vinyl, aluminum, etc):	VINYL	VINYL
EXTERNAL COLOR(S) (e.g. black, white, etc):	WHITE	WHITE
GRID PLACEMENT (Interior or Exterior):	EXTERIOR	EXTERIOR
GRID PATTERN (e.g. two-over-two; six-over-one, etc):	DIAMOND PANE PATTERN	DIAMOND PANE PATTERN
WINDOW STYLE(S) (e.g. double-hung, etc):	DOUBLE-HUNG	DOUBLE-HUNG
GLASS TYPE(S) (e.g. single-pane, double-pane, etc):	DOUBLE PANE	DOUBLE PANE

ADDITIONAL INFORMATION:

DOORS

Check box indicating that you are submitting an order sheet with renderings/brochure of the proposed door(s).

Check box indicating that you are submitting photographs of the existing door(s).

Will the Dimensions of the Door(s) Change: Yes (Please Provide Details Below Under Additional Information) No

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE CURRENT DOOR(S):

DOOR WAS FIRE DAMAGED AND HAS BEEN REPAIRED

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE DOOR(S):

FIRE DAMAGE

NUMBER OF DOOR(S) TO BE REPLACED/ADDED:

1

NEW DOOR MANUFACTURER:

MODEL NUMBER(S):

	EXISTING	PROPOSED
MATERIAL (e.g. steel, fiberglass, etc):	WOOD	WOOD
EXTERNAL COLOR(S) (e.g. black, white, etc):	BROWN	BROWN
DOOR STYLE(S) (e.g. colonial, etc):	COLONIAL	COLONIAL
PANEL PATTERN (e.g. single; two panel, etc):	FIVE PANELS	FIVE PANELS
GLASS PLACEMENT:	TOP OF DOOR	TOP OF DOOR
GLASS TYPE(S) (e.g. single-pane, double-pane, etc):	SINGLE-PANE	SINGLE-PANE

ADDITIONAL INFORMATION:

PAINT

Check box indicating that you are submitting samples of the proposed paint color(s).

Check box indicating that you are submitting photographs of the existing conditions (existing color(s)).

BUILDING SIDE(S) WITH NEW PAINT COLOR:

PAINTING OF OTHER STRUCTURES (e.g. porch, deck, sunroom, etc.):

EXISTING

PROPOSED

COLORS:

RENOVATIONS

FOR ANY RENOVATIONS INVOLVING MODIFICATIONS TO WINDOWS, DOORS, SIDING, ROOFING OR PAINT, PLEASE FILL OUT THOSE SECTIONS OF THIS APPLICATION (PAGES 2 AND 3).

Check box indicating that you are submitting brochures and/or renderings of the proposed renovation(s).

Check box indicating that you are submitting photographs of the existing conditions (existing colors).

STRUCTURE BEING RENOVATION (e.g. front porch, side porch, etc.):

FOUNDATION

WILL THERE BE RENOVATIONS TO RAILINGS, FLOORING, CEILING, BALLASTERS, PILLARS, STEPS?

YES (PLEASE PROVIDE MORE INFO BELOW)

NO

EXISTING CONDITIONS/DESCRIPTION

PROPOSED RENOVATIONS

CRACKED FOUNDATION

COVER W/ CONCRETE
STONE PATTERN

Project Description:

The front windows that were fire damaged have been replaced and have had the wood grid pattern installed to match previous windows.

The front door was fire damaged and therefore replaced with a door that matched as closely to the original as I could find.

The foundation had cracks in it so I had it repaired.

Justification for Certificate of Hardship:

I had assigned a representative to attend the hearing on September 21, 2023 regarding the replacement of the fire damaged windows and the representative was not able to make it due to a last-minute emergency and did not let me know in time. I was not aware that the approval was denied for replacing the front windows that is why I proceeded to replace them. Regarding the front door, it was damaged and needed to be replaced immediately. I could not find a door that matched the original one exactly so I got one that was as close a match as possible and replaced it. As far as the foundation, it had cracks all over it so I had it repaired in the pattern that you see in the photos. I did not know I needed approval for that and did not know it would be an issue. All three of these were issues that needed immediate attention, they were not simply done to enhance the cosmetic appeal of the property.







11/18/2025 12:56

PRIVATE
PROPERTY
NO TRESPASSING

11/18/2025 12:56



1904

21

11/18/2025 12:57

DIAMOND PATTERN INSTALLERS





70 Tapley Street
Springfield, MA 01104

Violation

10/21/2025

AAD, LLC
605 Southwick Street
Feeding Hills, MA 01030

Dear AAD, LLC:

Please be advised that Office of Planning & Economic Development, via the Staff liaison to the Springfield Historical Commission, confirmed that the building at 21 Mountainview Street is in violation of a 2006 Certificate of Hardship, specifically relating to the third-floor windows. As approved in 2006, the third-floor windows were to be covered with an exterior wood grid pattern to match the diamond pane pattern of the previous windows that were to be permanently affixed to the window. At a recent site visit, Staff observed that there were no wooden diamond-pane pattern grids affixed to the windows.

Furthermore, in reviewing your 2023 application relating to replacing all fire-damaged windows, please be advised that that part of the application was never resolved, and therefore, is not in effect, as the Commission only approved repairs to the building's siding during the August 3, 2023 hearing. The portion of the application pertaining to the fire-damaged windows was originally continued to the September 21, 2023 meeting agenda; however, due to the lack of someone appearing before the Commission on that date, the part of the application relating to the fire-damaged windows was denied. Consequently, approval relating to the windows is still required.

In consideration of these observations, the Historical Commission is respectfully requesting that you resubmit an application relating to the windows. The next available Springfield Historical Commission meeting is **Thursday, November 20, 2025 at 5:30pm** and the application needs to be submitted two weeks in advance of the meeting (**by Wednesday, November 5, 2025 at 12:00pm**). If you cannot make this meeting, please contact me for future meeting dates.

If you do not comply, the Commission will be forced to take further action. In addition, the Building Department has been notified of this violation to determine if permitting is required on their end.

If you have any questions, please feel free to contact me at (413) 787-6525.

Sincerely,

Andrew Strmiste
Director of Community Planning

Return Address:

Springfield Historical Commission
70 Tapley Street
Springfield, MA 01104

cc: file, Springfield Law Department, Springfield Building Department, Class Realty, Inc



CITY HALL
SPRINGFIELD,
MASSACHUSETTS
01103

NOTICE OF DECISION

**THE SPRINGFIELD HISTORICAL COMMISSION has approved a
Certificate of Hardship for the following property:**

21 Mountainview Street
Property

Paul & Doris Murphy
Owner
21 Mountainview Street
Springfield, MA 01108

District: Forest Park Heights

To keep the one-over-one vinyl replacement windows on the third floor provided they are covered with an exterior wood grid pattern which matches diamond pane pattern of previous windows. Wood grids to be affixed permanently.

Date Issued August 4, 2006


Robert McCarroll, Chairman
Authorized Signature

This Certificate is issued with the understanding that all changes approved by the Springfield Historical Commission are in compliance with any related municipal agency's rules, regulations and/or codes. The Historical Commission will not assume responsibility for any violation of these regulations that might occur as a result of the above approval.

PLEASE POST THIS CERTIFICATE DURING CONSTRUCTION



09/29/2025 14:58



09/29/2025 14:58



70 Tapley Street
Springfield, MA 01104

Violation Second-Attempt

11/18/2025

AAD, LLC
605 Southwick Street
Feeding Hills, MA 01030

Dear AAD, LLC:

Please be advised that this is the second attempt by the Office of Planning & Economic Development, via the Staff liaison to the Springfield Historical Commission, to inform you that there is an existing violation relating to the building at 21 Mountainview Street pertaining to a 2006 Certificate of Hardship, specifically relating to the third-floor windows. As approved in 2006, the third-floor windows were to be covered with an exterior wood grid pattern to match the diamond pane pattern of the previous windows that were to be permanently affixed to the window. At a recent site visit, Staff observed that there were no wooden diamond-pane pattern grids affixed to the windows.

Furthermore, in reviewing your 2023 application relating to replacing all fire-damaged windows, please be advised that that part of the application was never resolved, and therefore, is not in effect, as the Commission only approved repairs to the building's siding during the August 3, 2023 hearing. The portion of the application pertaining to the fire-damaged windows was originally continued to the September 21, 2023 meeting agenda; however, due to the lack of someone appearing before the Commission on that date, the part of the application relating to the fire-damaged windows was denied. Consequently, approval relating to the windows is still required.

In addition to the unauthorized installation of the windows, Staff recently observed two more notable issues that did not receive approval from the Commission: 1) the unauthorized replacement of the first-floor front door, and 2) the unauthorized modification to the foundation. All of the aforementioned unauthorized renovations require approval from the Historical Commission.

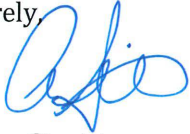
In consideration of these observations, the Historical Commission is respectfully requesting that you submit an application to obtain approval for the aforementioned renovations. The next available Springfield Historical Commission meeting is **Thursday, December 18, 2025 at 5:30pm** and the application needs to be submitted two weeks in advance of the meeting (**by Wednesday, December 3, 2025 at 12:00pm**). If you cannot make this meeting, please contact me for future meeting dates.

If you do not comply, the Commission will be forced to take further action. In addition, the Building Department has been notified of this violation to determine if permitting is required on their end.

If you have any questions, please feel free to contact me at (413) 787-6525.

cc: file, Springfield Law Department, Springfield Building Department, Class Realty, Inc

Sincerely,



Andrew Strniste
Director of Community Planning

Return Address:

Springfield Historical Commission
70 Tapley Street
Springfield, MA 01104



11/18/2025 12:56



11/18/2025 12:56



FOR SALE
CLASS

11/18/2025

11/18/2025 12:56

PRIVATE
PROPERTY
NO TRESPASSING

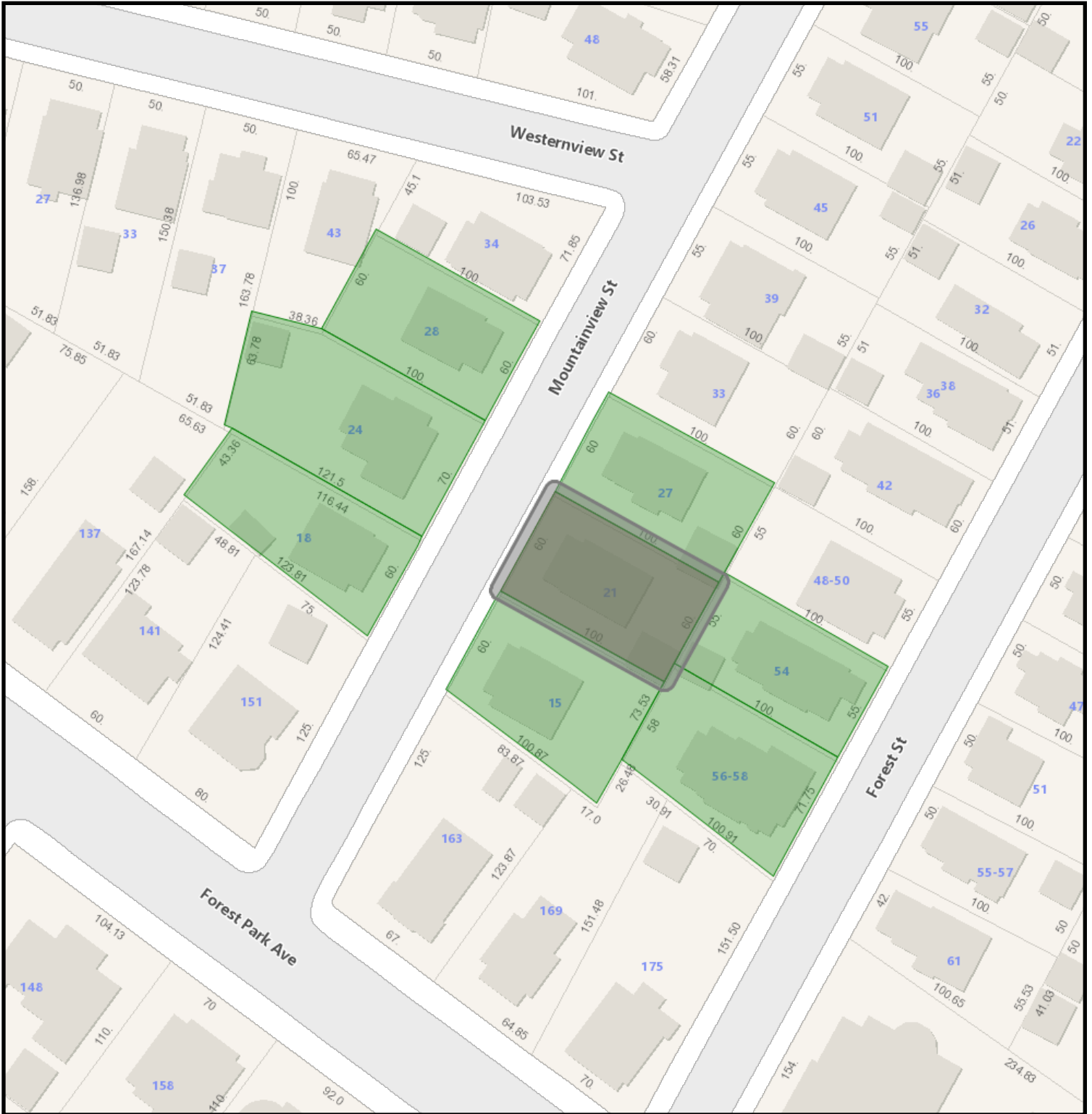
11/18/2025 12:56



1904

21

11/18/2025 12:57

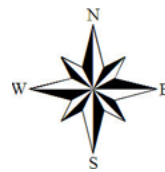


21 Mountainview Street GIS

12/3/2025 11:32:31 AM

Scale: 1"=75'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

088750021
AAD LLC
605 SOUTHWICK ST
FEEDING HILLS, MA 01030

088750022
BONILLA FELICIANO
836 WILBRAHAM RD
SPRINGFIELD, MA 01109

088750005
CROCCO NATHAN &
24 MOUNTAINVIEW ST
SPRINGFIELD, MA 01108

052600011
FOSTER BILSON M
56 FOREST ST
SPRINGFIELD, MA 01108

088750007
MALDONADO MARIA A.
28 MOUNTAINVIEW ST
SPRINGFIELD, MA 01108

088750003
MCINTOSH MOSES & LEIDIS
18 MOUNTAINVIEW ST
SPRINGFIELD, MA 01108

052600010
MCKENZIE KATHLEEN ANN &
54 FOREST ST
SPRINGFIELD, MA 01108

088750020
WILLIAMS NATALIE A
27 MOUNTAINVIEW ST
SPRINGFIELD, MA 01108



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 120 Harvard Street, Springfield, MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>McKnight</i>	DECISION:
DATE RECEIVED: <i>December 15, 2025</i>	DECISION DATE:
HEARING DATE: <i>January 15, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>December 30, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>December 30, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 120 Harvard Street, Springfield, MA 01109

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 120 Harvard Street, Springfield, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Charles Muthua		
OWNER ADDRESS: <input checked="" type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: (781) 254-3806	REPRESENTATIVE/CONTRACTOR NAME: Trinity Solar/Michael Blanchard	
OWNER EMAIL ADDRESS: muthdee@yahoo.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 413-203-9088	
PROPERTY CODE: 06380-0022	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: applications.westma@trinity-solar.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Due to high electrical bills, the homeowner proposes to have solar panels installed. Trinity Solar would be installing 9.02 kW DC (22 panels).		PROPOSED MODIFICATIONS (Please check all that apply) <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input checked="" type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Charles Muthua
Charles Muthua (Dec 12, 2025 19:33:27 EST)

PROPERTY OWNER'S SIGNATURE

12/12/2025

DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):		
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):		
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
ADDITIONAL INFORMATION:		

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

- YES (PLEASE PROVIDE MORE INFO ABOVE)
 No

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	
NUMBER OF SOLAR POWERED PANELS:	
SOLAR MANUFACTURER:	
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	
LOCATION OF CONDUIT (e.g. side of building, inside the house):	
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	



NJ, Electrical Contractor business permit number 34EB00839200
 NJ, HIC reg. # 13VH12957000

For other jurisdictions, please visit: <http://www.trinity-solar.com/about-us/locations-and-licenses>

HOMEOWNER AUTHORIZATION FORM

I, Charles Muthua,
 (print name)
 am the owner of the property located at address:
120 Harvard St Springfield MA
 (print address)

I hereby authorize Trinity Solar, LLC (“Trinity Solar”) and its employees, agents, and subcontractors, to act as my Agent for the limited purpose of applying for and obtaining local building and other permits from the Authority Having Jurisdiction as required for the installation of a Photovoltaic System, Battery System, roofing or other Trinity Solar offerings located on my property, applying and obtaining permission and approval for interconnection with the electric utility company, and registration with any state and/or local incentive program(s).

This authorization includes the transfer/re-administering, and/or cancellation of any existing permits on file for the purpose of updating/applying with an alternate subcontractor.

Without limitation to the generality of the foregoing I specifically authorize Trinity Solar et al. to populate technical details, fill-in, edit, compile, attach drawings, plans, data sheets and other documentation to, date, submit, re-submit, revise, amend, and modify application, submission and certification documents (“Approvals Paperwork”), including those for which signature pages are included herewith for my signature, in furtherance of the related transaction, and I am providing any signatures to Approvals Paperwork for purposes of the foregoing. Trinity Solar will provide copies of Approvals Paperwork upon request by the homeowner. Should I cancel the project, for reasons within my control, after Trinity Solar has paid for any permitting fees, I shall reimburse Trinity Solar for all expenses incurred related hereto.

My authorizations memorialized herein shall remain in full force and effect until revoked. I acknowledge that these authorizations are not required to proceed with the transaction and are not a condition of the related agreement included herewith but are being given for my own convenience and benefit in order to expedite the approvals processes.

Electric Utility Company: Eversource (Formerly WMECO)
 Electric Utility Account No.: 72003302733
 Electric Meter No.: 033071992
 Name on Electric Utility Account: Julia Agustin Berdugo

Charles Muthua
charles.muthua (Oct 30, 2025 06:30:59 EDT)
 Customer Signature
 Charles Muthua
 Print Name
Oct 30, 2025
 Date

Corporate Headquarters
 2211 Allenwood Road
 Wall, New Jersey 07719
www.Trinity-Solar.com

1-877-SUN-SAVES
 Ph: 732-780-3779
 Fax: 732-780-6671

**FOR INFORMATION ABOUT CONTRACTORS AND THE CONTRACTORS’ REGISTRATION ACT,
 CONTACT THE NEW JERSEY DEPARTMENT OF LAW AND PUBLIC SAFETY,
 DIVISION OF CONSUMERS AFFAIRS AT 1-888-656-6225.**

INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

120 HARVARD ST SPRINGFIELD, MA 01109

HARVARD ST ●



VICINITY MAP
SCALE: NTS

SITE

GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

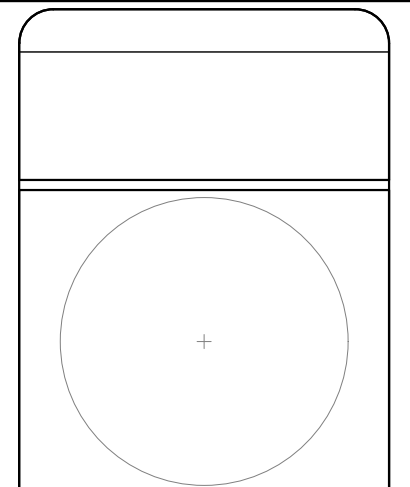
- AMP AMPERE
- AC ALTERNATING CURRENT
- AL ALUMINUM
- AF AMP. FRAME
- AFF ABOVE FINISHED FLOOR
- AFG ABOVE FINISHED GRADE
- AWG AMERICAN WIRE GAUGE
- C CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED)
- CB COMBINER BOX
- CKT CIRCUIT
- CT CURRENT TRANSFORMER
- CU COPPER
- DC DIRECT CURRENT
- DISC DISCONNECT SWITCH
- DWG DRAWING
- EC ELECTRICAL SYSTEM INSTALLER
- EMT ELECTRICAL METALLIC TUBING
- FS FUSIBLE SWITCH
- FU FUSE
- GND GROUND
- GFI GROUND FAULT INTERRUPTER
- HZ FREQUENCY (CYCLES PER SECOND)

ABBREVIATIONS CONTINUED

- JB JUNCTION BOX
- KCMIL THOUSAND CIRCULAR MILS
- KVA KILO-VOLT AMPERE
- kW KILO-WATT
- kWH KILO-WATT HOUR
- L LINE
- MCB MAIN CIRCUIT BREAKER
- MDP MAIN DISTRIBUTION PANEL
- MLO MAIN LUG ONLY
- MTD MOUNTED
- MTG MOUNTING
- N NEUTRAL
- NEC NATIONAL ELECTRICAL CODE
- NIC NOT IN CONTRACT
- NO # NUMBER
- NTS NOT TO SCALE
- OCP OVER CURRENT PROTECTION
- P POLE
- PB PULL BOX
- PH ∅ PHASE
- PVC POLY-VINYL CHLORIDE CONDUIT
- PWR POWER
- QTY QUANTITY
- RGS RIGID GALVANIZED STEEL
- SN SOLID NEUTRAL
- JSWBD SWITCHBOARD
- TYP TYPICAL
- U.O.I. UNLESS OTHERWISE INDICATED
- WP WEATHERPROOF
- XFMR TRANSFORMER
- +72 MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

SHEET INDEX

- PV-1 COVER SHEET W/ SITE INFO & NOTES
- PV-2 ROOF PLAN W/ MODULE LOCATIONS
- PV-3 ELECTRICAL 3 LINE DIAGRAM
- AP APPENDIX



Issued / Revisions		
NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	12/2/2025

Project Title:
MUTHUA, CHARLES-
TRINITY ACCT #: 2025-09-1406413

Project Address:
**120 HARVARD ST
SPRINGFIELD, MA 01109
42.1177, -72.5724**

Drawing Title:
PROPOSED PV SOLAR SYSTEM

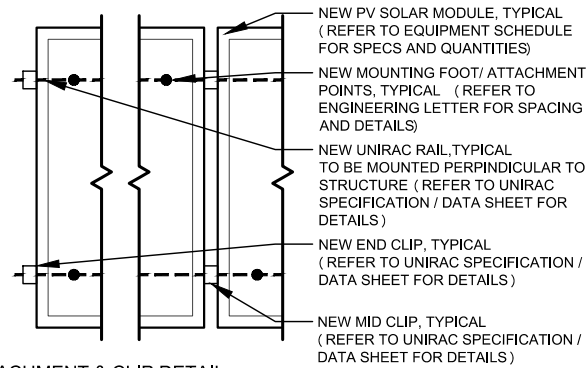
Drawing Information	
DRAWING DATE:	12/2/2025
DRAWN BY:	MS
REVISED BY:	

System Information:	
DC SYSTEM SIZE:	9.02kW
AC SYSTEM SIZE:	7.6kW
MODULE COUNT:	22
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	72003302733
UTILITY METER #:	033071992
DEAL TYPE:	LIGHTREACH

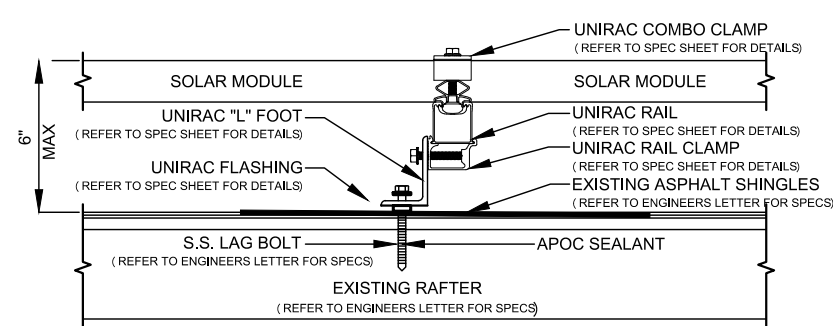
Rev. No.	Sheet
P1	PV - 1

2211 Allenwood Road Wall, New Jersey 07719 877-786-7283 www.Trinity-Solar.com

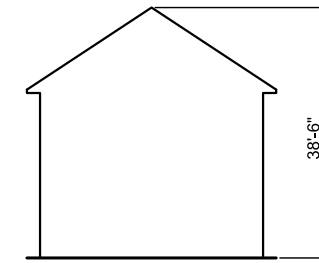
NOTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
 *DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



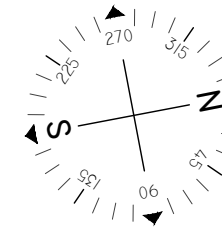
ATTACHMENT & CLIP DETAIL
 SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
 SCALE: NOT TO SCALE



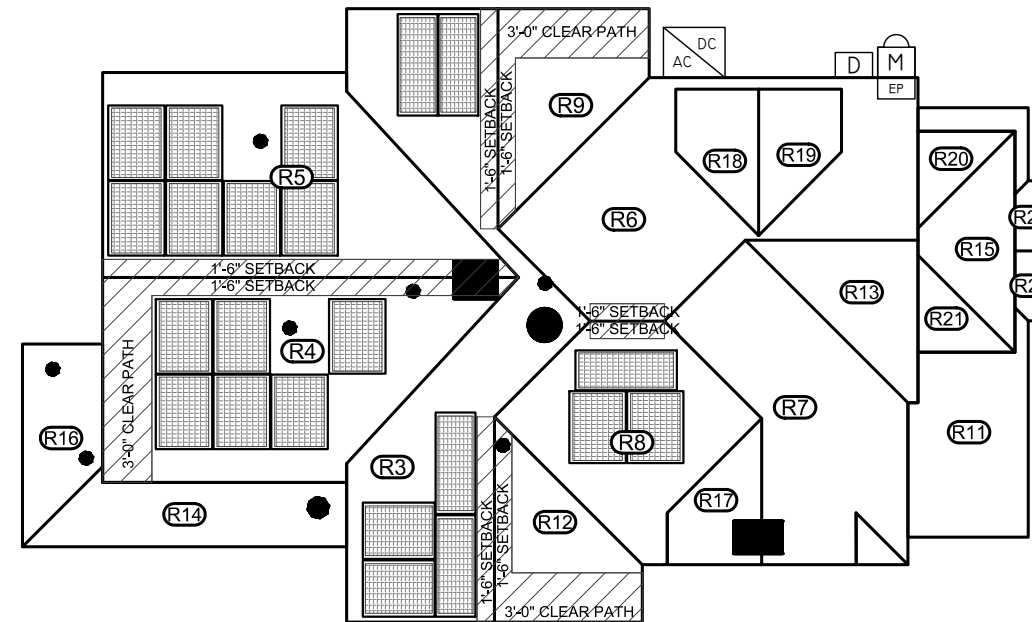
HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
 SCALE: NOT TO SCALE



ARRAY SCHEDULE

- ROOF 1
MODULES: 0
PITCH: 27°
ORIENTATION: 281°
- ROOF 2
MODULES: 0
PITCH: 34°
ORIENTATION: 98°
- ROOF 3
MODULES: 6
PITCH: 45°
ORIENTATION: 191°
- ROOF 4
MODULES: 6
PITCH: 43°
ORIENTATION: 101°
- ROOF 5
MODULES: 7
PITCH: 43°
ORIENTATION: 281°
- ROOF 6
MODULES: 0
PITCH: 45°
ORIENTATION: 281°
- ROOF 7
MODULES: 0
PITCH: 45°
ORIENTATION: 11°
- ROOF 8
MODULES: 3
PITCH: 45°
ORIENTATION: 101°
- ROOF 9
MODULES: 0
PITCH: 45°
ORIENTATION: 11°
- ROOF 10
MODULES: 0
PITCH: 30°
ORIENTATION: 11°
- ROOF 11
MODULES: 0
PITCH: 30°
ORIENTATION: 11°
- ROOF 12
MODULES: 0
PITCH: 45°
ORIENTATION: 11°
- ROOF 13
MODULES: 0
PITCH: 45°
ORIENTATION: 101°
- ROOF 14
MODULES: 0
PITCH: 23°
ORIENTATION: 101°
- ROOF 15
MODULES: 0
PITCH: 34°
ORIENTATION: 11°
- ROOF 16
MODULES: 0
PITCH: 23°
ORIENTATION: 191°
- ROOF 17
MODULES: 0
PITCH: 45°
ORIENTATION: 191°
- ROOF 18
MODULES: 0
PITCH: 45°
ORIENTATION: 191°
- ROOF 19
MODULES: 0
PITCH: 45°
ORIENTATION: 11°
- ROOF 20
MODULES: 0
PITCH: 34°
ORIENTATION: 281°
- ROOF 21
MODULES: 0
PITCH: 34°
ORIENTATION: 101°
- ROOF 22
MODULES: 0
PITCH: 30°
ORIENTATION: 281°
- ROOF 23
MODULES: 0
PITCH: 30°
ORIENTATION: 101°
- ROOF 24
MODULES: 0
PITCH: 45°
ORIENTATION: 101°

***NOTE: 2021 IRC R324.6.2
 PLAN VIEW TOTAL ROOF AREA: 2493 FT²
 PHOTOVOLTAIC ARRAY TOTAL AREA: 483 FT²
 ARRAY PERCENTAGE OF PLAN VIEW TOTAL ROOF AREA: 19.4%



NOTES:

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

SYMBOL LEGEND

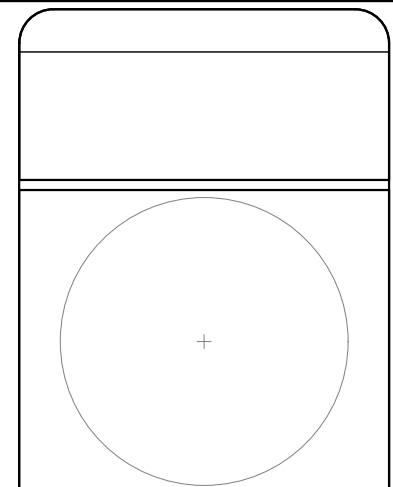
(R1)	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	(UD)	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(SP)	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
(M)	INDICATES EXISTING METER LOCATION	(P)	INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.	(DC)	INDICATES NEW DC DISCONNECT
(EP)	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE	(P)	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.	(SD)	INDICATES EXISTING SERVICE DISCONNECT
(D)	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	(DC/AC)	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS	(TS)	INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE

OTHER OBSTRUCTIONS

EQUIPMENT SCHEDULE

QTY	SPEC #
22	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
1	USE7600H-USMNB78
22	U650 SE OPTIMIZERS
18	UNIRAC 171RLM1-US NXT UMount RAIL - 171" MILL (US)
2	UNIRAC RLSPLCM2-US NXT UMount RAIL SPLICE (US)



Issued / Revisions		
P1	ISSUED TO TOWNSHIP FOR PERMIT	12/2/2025
NO.	DESCRIPTION	DATE

Project Title:
 MUTHUA, CHARLES-
 TRINITY ACCT #: 2025-09-1406413

Project Address:
 120 HARVARD ST
 SPRINGFIELD, MA 01109
 42.1177, -72.5724

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	12/2/2025
DRAWN BY:	MS
REVISED BY:	

System Information:	
DC SYSTEM SIZE:	9.02kW
AC SYSTEM SIZE:	7.6kW
MODULE COUNT:	22
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	72003302733
UTILITY METER #:	033071992
DEAL TYPE:	LIGHTREACH

Rev. No.	Sheet
P1	PV - 2

Trinity
 SOLAR

2211 Allenwood Road
 Wall, New Jersey 07719

877-786-7283
 www.Trinity-Solar.com

ARRAY CIRCUIT WIRING NOTES

1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH **NEC 2023**

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH **NEC 690.12(A) THROUGH (D)**

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT PER **NEC 690.41 (A)(4)**

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
 POSITIVE CONDUCTORS = RED
 NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVALENT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) DISCONNECTS FED BY SUPPLY-SIDE SOURCE CONDUCTORS SHALL BE BONDED AND CONNECTED TO GROUNDING SYSTEM IN ACCORDANCE WITH **NEC 250.24**

12.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 690.9(A)(3)(2)**

13.) WHERE TWO SOURCES FEED A BUSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)**

14.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

15.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
 REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: (15.00*1.25)1 = 18.75A

AWG #10, DERATED AMPACITY
 AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
 RACEWAY DERATING = 4 CCC: 0.80
 (40*.96)0.80 = 30.72A

30.72A ≥ 18.75A, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 32.00A*1.25 = 40.00A

AWG #8, DERATED AMPACITY
 AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
 RACEWAY DERATING ≤ 3 CCC: N/A
 55A*1.0 = 55A

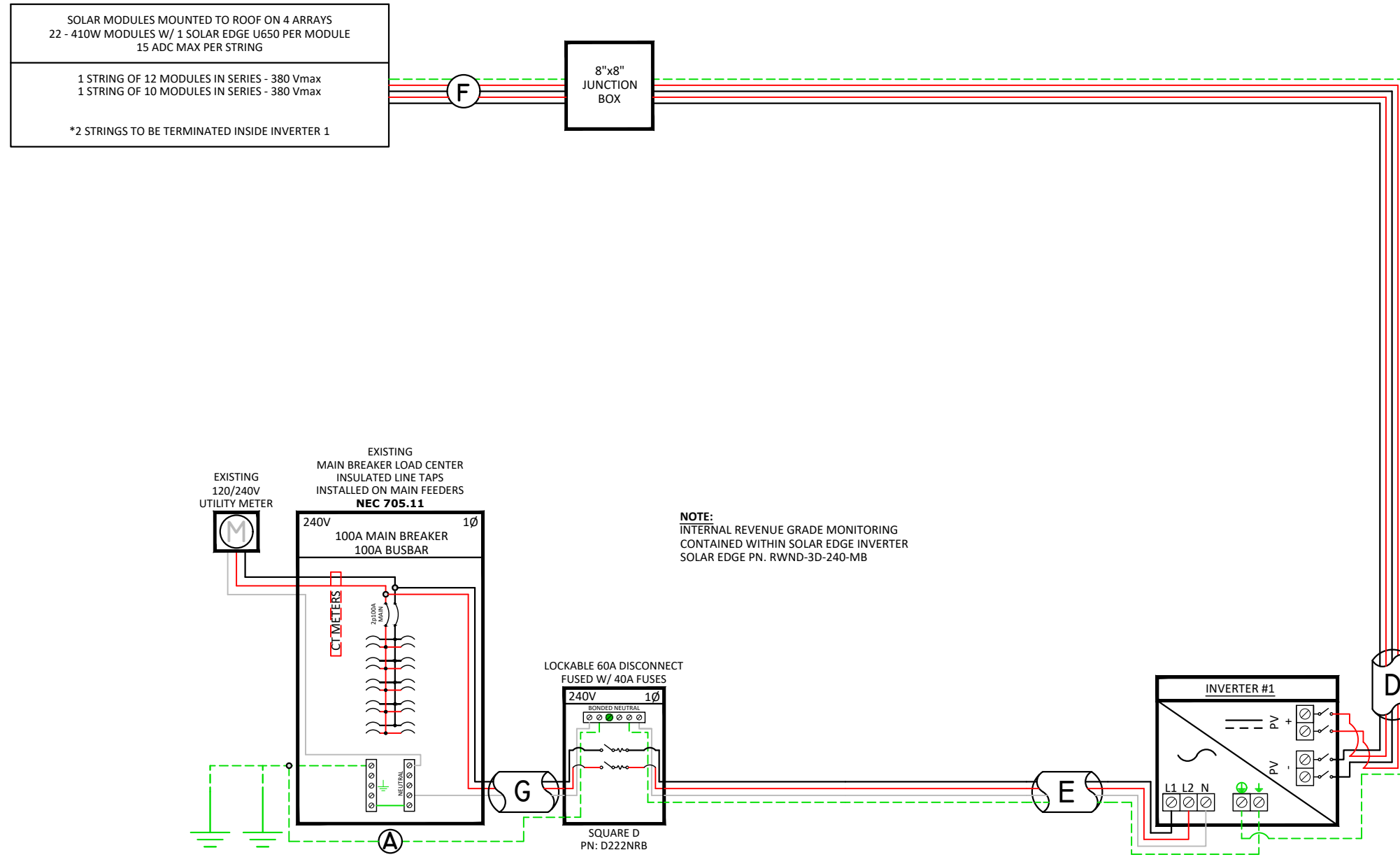
55A ≥ 40.00A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 32.00A

32.00A*1.25 = 40.00A

-> 40A OVERCURRENT PROTECTION IS VALID



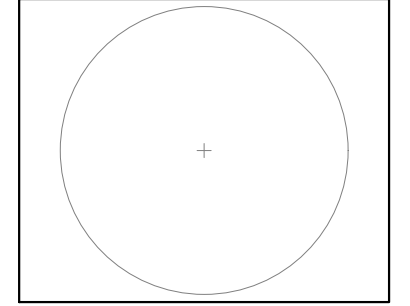
PV MODULE SPECIFICATIONS	
HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)	
Imp	10.89
Vmp	37.64
Voc	45.37
Isc	11.2

INVERTER #1 - USE7600H-USMNB78			
DC		AC	
Imp	23.74	Pout	7600
Vmp	380	Imax	32
Voc	480	OCPDmin	40
Isc	30	Vnom	240

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

A	#6 THWN-2 TO GEC
B	3/4" CONDUIT W/ 2-#8 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
C	3/4" CONDUIT W/ 4-#10 THWN-2, 1-#10 THWN-2 GROUND
D	3/4" CONDUIT W/ 4-#10 THWN-2, 1-#10 THWN-2 GROUND
E	3/4" CONDUIT W/ 2-#8 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY
G	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2

Engineer / License Holder:



Issued / Revisions		
NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	12/2/2025

Project Title:
MUTHUA, CHARLES-
 TRINITY ACCT #: 2025-09-1406413

Project Address:
 120 HARVARD ST
 SPRINGFIELD, MA 01109
 42.1177, -72.5724

Drawing Title:
PROPOSED PV SOLAR SYSTEM

Drawing Information
 DRAWING DATE: 12/2/2025
 DRAWN BY: MS
 REVISED BY:

System Information:
 DC SYSTEM SIZE: 9.02kW
 AC SYSTEM SIZE: 7.6kW
 MODULE COUNT: 22
 MODULES USED: HANWHA 410
 MODULE SPEC #: Q.PEAK DUO BLK ML-G10.C+ 410
 UTILITY COMPANY: EVERSOURCE
 UTILITY ACCT #: 72003302733
 UTILITY METER #: 033071992
 DEAL TYPE: LIGHTREACH

Rev. No. **P1** Sheet **PV - 3**

NOTES:

- 1.) COMPLIES WITH NEC 2023
- 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
- 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURRABILITY TO WITHSTAND THE ENVIROMENT INVOLVED

To be located on all DC junction boxes and every 10' on DC conduit

WARNING: PHOTOVOLTAIC POWER SOURCE
NEC 690.31(D)(2)



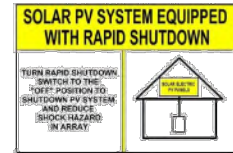
DC Junction Box



Soladeck



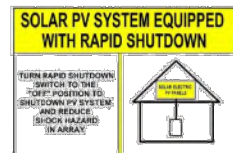
DC Conduit



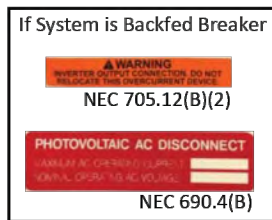
NEC 690.13



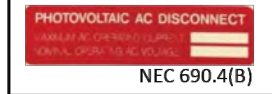
Service Disconnect



NEC 690.13



If System is Backfed Breaker
WARNING
NEC 705.12(B)(2)



NEC 690.4(B)



Main Service Panel



Utility



Utility Meter Socket



NEC 690.13(B)



Solar Meter Socket



690.56(D)(2)



NEC 690.13(B)



NEC 690.4(B)



Photovoltaic AC Disconnect



NEC 690.4(B)



Load Center (To Combine Inverters)



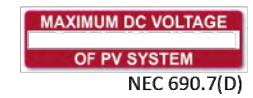
690.56(D)(2)



NEC 690.13(B)



NEC 690.4(B)



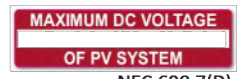
NEC 690.7(D)



Inverter(s)



NEC 690.4(B)



NEC 690.7(D)



DC Disconnect



NEC 690.13(B)



Enphase Envoy Box

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Q.PEAK DUO BLK ML-G10+ SERIES



395 - 415 Wp | 132 Cells
21.1% Maximum Module Efficiency
Domestic Content Option Available

MODEL *Q.PEAK DUO BLK ML-G10+
 Q.PEAK DUO BLK ML-G10.C+



Includes Domestic Content

This product contains U.S. manufactured components which can contribute to qualifying for the 10% domestic content bonus to applicable tax credits under the Inflation Reduction Act of 2022.¹



Breaking the 21% efficiency barrier

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty.²



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology³ and Hot-Spot Protect.



Extreme weather rating

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



Far beyond the standard

Qcells' comprehensive quality program ensures high long-term yields and the reliability of your solar system.

¹ This statement should not be relied on as tax advice and is subject to change based on changes made to the Inflation Reduction Act and its implementing rules and regulations. Please consult a qualified tax professional for specific guidance.

² See data sheet on rear for further information.

³ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500V, 96h)

The ideal solution for:



*DCA Module Option:

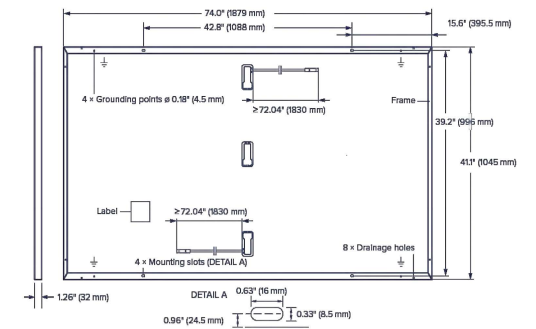
DCA 17 module has material code 'MD06G100A-017' printed on the module power label.



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 72.04 in (1830 mm), (-) ≥ 72.04 in (1830 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

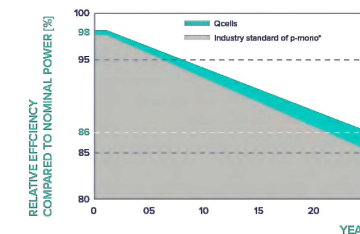
POWER CLASS		395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W/-0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	395	400	405	410	415
	Short Circuit Current ¹	I _{SC} [A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage ¹	V _{OC} [V]	45.27	45.30	45.34	45.37	45.41
	Current at MPP	I _{MPP} [A]	10.71	10.77	10.83	10.89	10.95
	Voltage at MPP	V _{MPP} [V]	36.88	37.13	37.39	37.64	37.89
	Efficiency ¹	η [%]	≥20.1	≥20.4	≥20.6	≥20.9	≥21.1

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P _{MPP} [W]	296.3	300.1	303.8	307.6	311.3
	Short Circuit Current	I _{SC} [A]	8.95	8.97	9.00	9.03	9.05
	Open Circuit Voltage	V _{OC} [V]	42.69	42.72	42.76	42.79	42.83
	Current at MPP	I _{MPP} [A]	8.46	8.51	8.57	8.62	8.68
	Voltage at MPP	V _{MPP} [V]	35.03	35.25	35.46	35.68	35.89

¹Measurement tolerances P_{MPP} ±3%; I_{SC}; V_{OC} ±5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 - 2800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY

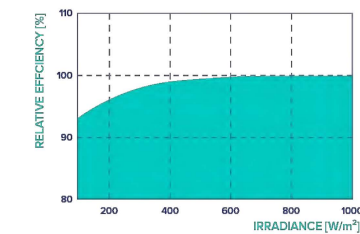


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organization of your respective country.

¹Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

Properties for System Design

Maximum System Voltage	V _{SYS} [V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI/UL 61730	TYPE 2
Max. Design Load, Push/Pull ³	[lbs/ft ²]	75 (3600 Pa)/55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push/Pull ³	[lbs/ft ²]	113 (5400 Pa)/84 (4000 Pa)		

³ See Installation Manual

Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells),



*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product. Hanwha Q CELLS America Inc. 300 Spectrum Center Drive, Suite 500, Irvine, CA 92618, USA | TEL: +1 (949) 748 5996 | EMAIL: na.support@qcells.com | WEB: www.qcells.com



/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USExxxxH-USMNB78					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT – AC ON GRID						
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V 6600 @ 208V	10,000 @ 240V 8700 @ 208V	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)	208 / 240					Vac
AC Output Voltage (Range)	183 – 264					Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾					Hz
Maximum Continuous Output Current	16	24	32	42	47.8	A
Maximum Fault Current / Duration	74 / 50					Aac / μ s
GFDI Threshold	1					A
Total Harmonic Distortion (THD)	< 3					%
Power Factor	1, adjustable -0.85 to 0.85					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	< 2.5					W
OUTPUT – AC STANDALONE (BACKUP)⁽³⁾						
Rated AC Power in Standalone Operation ⁽⁴⁾	12,500 ⁽⁵⁾⁽⁶⁾					W
Maximum Continuous Output Current in Standalone Operation	52					A
Locked Rotor Amperage (LRA) ⁽⁷⁾	Up to 106					A
AC L-L Output Voltage Range in Standalone Operation	211 – 264					Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132					Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65					Hz
GFDI	1					A
THD	< 5					%
INPUT – DC (PV AND BATTERY)						
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	480					Vdc
Nominal DC Input Voltage	380					Vdc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600k Ω Sensitivity					
Maximum Input Short Circuit Current	45					Adc
Maximum Inverter Efficiency	99.2					%
CEC Weighted Efficiency	98.5		99		99 @ 240V 98.5 @ 208V	%
2-Pole Disconnection	Yes					
DC CONNECTION – PV						
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V 13,200 @ 208V	20,000 @ 240V 17,400 @ 208V	22,800 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V 35 @ 208V	53 @ 240V 46 @ 208V	60 @ 240V 53 @ 208V	Adc
Number of Ports	3					
Maximum Current per Port	40					Adc

(1) These specifications apply to inverters with part number SExxxxH-USMNB78 and connection unit model number DCD-1PH-US-PXH-F-x.

(2) For other regional settings please refer to the [SolarEdge Inverters, Power Control Options](#) application note.

(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.

(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 12,500W with a Maximum Continuous Output Current of 52A, from firmware version 4.23.xx.

(5) Operational only at ambient temperatures up to 86°F / 30°C. Above 86°F / 30°C, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(6) Available only for single inverter installations. In multi-inverter installations, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(7) For more information about LRA (Locked Rotor Amperage) values, see the [SolarEdge Home Hub Inverter LRA](#) application note.



/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USExxxxH-USMNB78					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY						
Supported Battery Types	SolarEdge Home Battery 400V					
Number of Batteries per Inverter	Up to 3					
Maximum Continuous Power (Charge and Discharge) ⁽⁸⁾	12,500					W
Number of Ports	2					
Maximum Current per Port	40					Adc
2-pole Disconnection	Up to the inverter's rated standalone power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁹⁾					
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters					
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽¹⁰⁾					
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽¹¹⁾ , Wi-Fi (optional) ⁽¹²⁾ , SolarEdge Home Network ⁽¹³⁾ (optional)					
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾					
Integrated AC, DC, and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12					
STANDARD COMPLIANCE						
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540					
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H					
Emissions	FCC Part 15 Class B					
Power Control System (PCS)	UL 1741 PCS ⁽¹⁴⁾					
INSTALLATION SPECIFICATIONS						
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection					
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input					
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14 – 4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG					
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208					in / mm
Weight with Connection Unit	44.9 / 20.3					lb / kg
Noise	< 50					dBA
Cooling	Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁵⁾					°F / °C
Protection Rating	NEMA 4X					

(8) Discharge power is limited up to the inverter's rated AC power for on-grid applications, and up to 12.5 kW for standalone applications, as well as up to the installed batteries' rating.

(9) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.

(10) For more information about the SolarEdge Home EV Charger, refer to the [SolarEdge Home EV Charger](#) datasheet.

(11) Purchased separately. Information concerning the data plan terms & conditions is available in [SolarEdge Communication Plan Terms and Conditions](#).

(12) External Wi-Fi antenna for wider range provided with the inverter's package. Refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.

(13) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the [SolarEdge Home Network Plugin](#) datasheet.

(14) Only part numbers USExxxxH-USMNB7x support the PCS meter.

(15) Full power up to at least 122°F / 50°C. For power derating information refer to the [Temperature Derating for North America](#) technical note.



Power Optimizer

USA Domestic Content Eligible*

For North America
U650 / U650B

POWER OPTIMIZER



SolarEdge's USA-manufactured offering for PV power optimization at the module level

- Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers*, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Specifically designed to work with SolarEdge inverters
- Supports high open circuit voltage (Voc) modules with U650B
- U650B provides improved design flexibility of multifaceted, complex roofs, with extended output voltage that reduces yield factor losses
- Superior efficiency (99.5%)
- Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Faster installations with simplified wire management and easy assembly using a single bolt
- Compatible with a wide range of modules, including high-powered and bifacial PV modules
- Advanced safety:
 - Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created
 - Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety
 - Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Content Percentage under the "Rooftop (MLPE)" category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

Power Optimizer

USA Domestic Content Eligible, for North America

U650 / U650B

	U650	U650B	Units
INPUT			
Rated Input DC Power ⁽¹⁾	650		W
Absolute Maximum Input Voltage (Voc)	60	100	Vdc
MPPT Operating Range	8 – 60	12.5 – 100	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module)	15		Adc
Maximum Input Short Circuit Current ⁽²⁾	18.75		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)			
Maximum Output Current	15		Adc
Maximum Output Voltage	60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1 ± 0.1		Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System	CSA C22.2#330, NEC 2014 – 2023		
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3		
Safety	CSA C22.2#107.1, IEC 62109-1 (Class II safety), UL 1741		
Material	UL 94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5.07 x 6.49 x 1.77	mm / in
Weight	720 / 1.6	790 / 1.74	gr / lb
Input Connector	MC4		
Input Wire Length	0.1 / 0.32		m / ft
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m / ft
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA6P		
Relative Humidity	0 – 100		%


(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
 (2) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial gain, and so on, in accordance with NEC and CSA.
 (3) Power derating is applied for ambient temperatures above +85°C / +185°F for U650 and for ambient temperatures above +75°C / 167°F for U650B. Refer to the Power Optimizers Temperature Derating technical note for details.


PV System Design Using a SolarEdge Inverter ⁽⁴⁾	SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length	U650: 8 U650B: 6	10	18	
Maximum String Length (Power Optimizers)	25		50 ⁽⁵⁾	
Maximum Usable Power Delivered per String	5700	6000	12,750	W
Maximum Allowed Connected Power per String ⁽⁶⁾⁽⁷⁾	Inverters with Rated AC Power ≤ 5700W	Per the inverter's maximum input DC power ⁽⁸⁾	One string: 7200 Two strings or more: 7800	W
	Inverters with Rated AC Power of 6000W	5700		
	Inverters with Rated AC Power ≥ 7600W	6800, only when connected to at least two strings		
Parallel Strings of Different Lengths or Orientations	Yes			

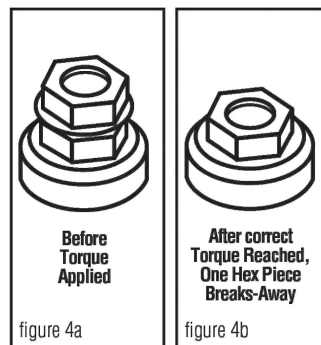
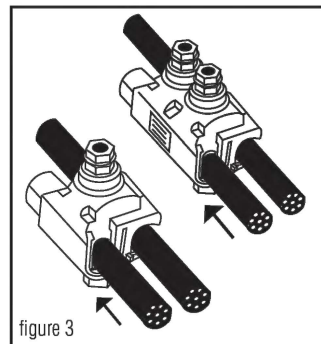
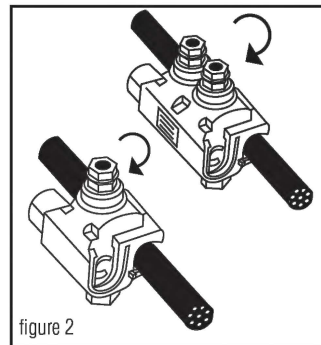
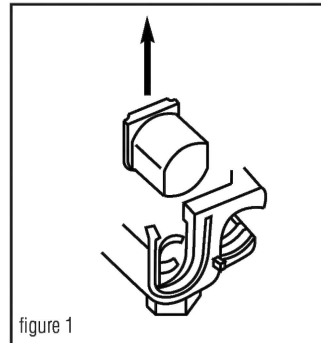
(4) It is not allowed to mix U650 or U650B Power Optimizers with P-series Power Optimizers in new installations in the same string.
 (5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
 (6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.
 (7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings 2,000W or less.
 (8) Refer to the Single String Design Guidelines application note for more details.

INSULATION-PIERCING TAP CONNECTORS CONECTORES DE DERIVACIÓN QUE PERFORAN EL AISLAMIENTO

Installation Instructions:

 **Warning**
Improperly installed electrical wiring can be dangerous and cause electrical fires. The connector chosen must be sized to the wires being used. Consult local building code before doing any electrical work. For assistance, refer to an instructional book or consult a qualified electrician.

 **Warning**
Contact with electricity can cause serious injury or death. Use on insulated cable only. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consult factory for other insulation types]. If the installation is to be made on an energized run, the tap conductor must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.



- Determine the direction for the tap conductor to exit and discard one end cap. **See figure 1.**
- Position the main (or feeder) side of the connector around the run cable and tighten the bolt finger tight. **See figure 2.** If required, loosen the bolt slightly to allow the connector to open completely. **DISASSEMBLY NOT RECOMMENDED.** The plastic "Turbo" spacer holds the connector open which eases installation and ensures proper connections.
- Cut the end of the tap cable squarely. **DO NOT STRIP CABLE INSULATION.**
- Insert the tap cable into the tap side of the connector until it is seated in the remaining end cap. **See figure 3.**
- Continue tightening the torque regulating bolt with a standard box or socket wrench until the torque regulating piece breaks away. If the connector has two (2) assembly bolts, alternately tighten until the hexagonal torque devices break away. **See figures 4a & 4b.** Note that the plastic "turbo" spacer on the side will also break. To make the installation even easier and to relieve torque from the cables, a second wrench can be used on the hexagonal piece on the bottom of the connector.

DO NOT use gripping type pliers, pipe, open ended or adjustable wrenches as these may damage the hexagonal torque regulating device. A torque wrench is not required.

MAKE SURE ONLY THE TOP HEXAGONAL TORQUE DEVICE OF THE BOLT HEAD IS USED FOR ASSEMBLY. THE SECOND HEX PIECE [CLOSER TO THE BODY OF THE CONNECTOR] IS USED FOR DISASSEMBLY.

Note: The torque regulating bolt ensures the correct torque is applied to the conductors without using a torque wrench. Important information such as run and tap ranges, voltage ratings and material/temperature ratings is marked on the connector.

Instalación Instrucciones:

 **Advertencia**
Los cables eléctricos mal instalados pueden ser peligrosos y provocar incendios. El conector escogido debe ser de un tamaño adecuado para los cables que se utilicen. Consulte los códigos de construcción locales antes de efectuar trabajos eléctricos. Si necesita ayuda, consulte un libro de instrucciones o consulte con un electricista capacitado.

 **Advertencia**
Use sólo en cable aislado. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consulte con la fábrica para obtener información sobre otros tipos de aislamiento]. Si se va a hacer la instalación sobre un cable con corriente el conductor derivado debe estar libre de carga y no debe estar aterado. Use guantes con aislamiento eléctrico. Quite la corriente al cable del cual se hace la derivación si no se pueden cumplir estas condiciones. El contacto con electricidad puede producir lesiones graves o mortales.

- Determine la dirección en la que el conductor derivado saldrá y deseche la tapa terminal sobrante. **Vea la ilustración 1.**
- Coloque el lado principal (o de alimentación) del conector alrededor del cual se hace la derivación y apriete firmemente el dedo del perno. **Vea la ilustración 2.** Si hace falta, afloje el perno ligeramente para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMAR EL CONECTOR.** El espaciador "Turbo" de plástico mantiene al conector abierto, lo cual facilita la instalación y asegura que las conexiones se hagan correctamente.
- Corte el extremo del cable de derivación perpendicularmente a su eje. **NO PELE EL AISLAMIENTO DEL CABLE.**
- Inserte el cable de derivación en el lado de derivación del conector hasta que tope contra la tapa terminal que queda. **Vea la ilustración 3.**
- Continúe apretando este perno que regula la torsión con una llave estándar o de cubo hasta que la pieza que regula la torsión se parta y se separe. Si el conector tiene dos (2) pernos de ensamblaje, apriételes alternativamente hasta que el dispositivo de regulación de torción se parta. **Vea la ilustración 4a y 4b.** Observe que el espaciador "turbo" de plástico en el costado también se fracturará. Para hacer esta instalación aún más fácil y para aliviar la torsión de los cables, se puede usar una segunda llave sobre la pieza hexagonal al fondo del conector.

NO USE alicates de presión, llaves de turbo, llaves comunes o ajustables ya que éstas pueden dañar el dispositivo hexagonal que regula la torsión. No se requiere una llave de torsión.

ASEGÚRESE QUE SE USE, PARA EL ENSAMBLADO, SÓLO EL DISPOSITIVO SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA CABEZA DEL PERNO. LA SEGUNDA PIEZA HEXAGONAL (LA MÁS CERCANA AL CUERPO DEL CONECTOR) SE USA SÓLO PARA DESARMAR EL CONECTOR.

Nota: El perno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores sin usar una llave de torsión. La información importante de longitud de cable pelado y de toma, las clasificaciones de materiales y temperatura está marcada en el conector.

B-TAP[®] INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC2/0-14	2/0-4	10-14*	80 IN. LBS.	40
BTC1/0-10	1/0-8	2-10**	80 IN. LBS.	130
BTC4/0-10	4/0-3	2-10***	125 IN. LBS.	130
BTC4/0-6	4/0-2	1/0-6	160 IN. LBS.	170
BTC4/0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-6	250-4	4/0-6	160 IN. LBS.	260
BTC250-4	250-1	3/0-4	160 IN. LBS.	225
BTC250-2	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-1/0	350-1/0	350-1/0	330 IN. LBS.	350
BTC500-4	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-1/0	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-14	750-3/0	10-14****	80 IN. LBS.	40
BTC750-250	750-250	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED
 ++2-10 Cu SOLID/STRANDED; 2-10 Al STRANDED
 +++2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED
 ++++10-14 Cu SOLID/STRANDED; 10-12 Al STRANDED

Full line is 600V dual-rated, 194°F(90°C)

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30° C) for the largest tap wire size.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
 **ADVERTENCIA:** Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov

One year limited warranty. See idealind.com for more information.

Garantía limitada de un año. Visite www.idealind.com para obtener detalles de la garantía.

NXT UMOUNT™



DESIGN & INTEGRATION

- Seamless, integrated wire management system elevates the install via the new open channel rail.
- State-of-the-art internal splice is interference free and offers true structural integrity that can even be installed in a cantilever!

VERSATILITY & AESTHETICS

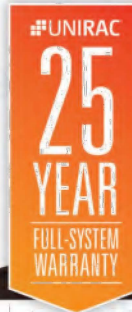
- Unparalleled versatility supporting a vast array of roof attachments. Whether it's flashing or no flashing, the NXT UMOUNT™ system has got you covered!
- Refined finishing touches are visually sleek and functionally superior.

EFFICIENCY & EASE OF INSTALLATION

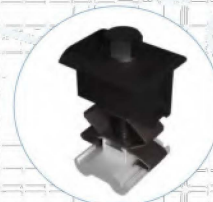
- Universal module clamps and combo lug / MLPE mounts result in fewer SKUs and maximum component value.
- Open-slot STRONGHOLD attachments deliver quick, reliable, waterproof installations via Flashloc or pre-applied butyl sealants.
- With our click-in rail & clamps, you'll spend significantly less time on the roof, making installations quicker and hassle-free.

WHY NXT UMOUNT?

Introducing NXT UMOUNT™, a revolutionary product by Unirac that stands as the ultimate testament to over two decades of engineering experience. Its thoughtful design, backed by rigorous engineering, world-class support, and a reliable supply chain, encapsulates the best of DESIGN, SIMPLICITY, and VALUE. This innovative solar racking solution brings unparalleled versatility to solar installations, effectively representing the NXT level of solar mounting systems.



NXT UMOUNT™ HIDDEN END CLAMP



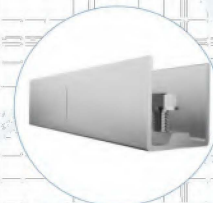
NXT UMOUNT™ COMBO CLAMP
Available in Dark and Mill



STRONGHOLD™ RAIL CLAMP
Available in Dark and Mill



NXT UMOUNT™ RAIL
Available in Dark and Mill



NXT UMOUNT™ RAIL SPLICE



NXT UMOUNT™ MLPE & LUG CLAMP



STRONGHOLD™ ATTACHMENT KIT
Available in Dark and Mill



STRONGHOLD™ BUTYL ATTACHMENT KIT
Available in Dark and Mill



NXT UMOUNT™ METAL ROOF RAIL CLAMP

FLASHKIT PRO



FLASHKIT PRO is the complete attachment solution for composition shingle roofs. Featuring Unirac's patented SHED & SEAL technology, a weather proof system which provides the ultimate protection against roof leaks. Kitted in 10 packs for maximum convenience, flashings and hardware are available in Mill or Dark finishes. With FLASHKIT pro, you have everything you need for a quick, professional installation.



TRUSTED WATER SEAL FLASHINGS
FEATURING SHED & SEAL TECHNOLOGY



YOUR COMPLETE SOLUTION
Flashings, lags, continuous slot L-Feet and hardware



CONVENIENT 10 PACKS
Packaged for speed and ease of handling

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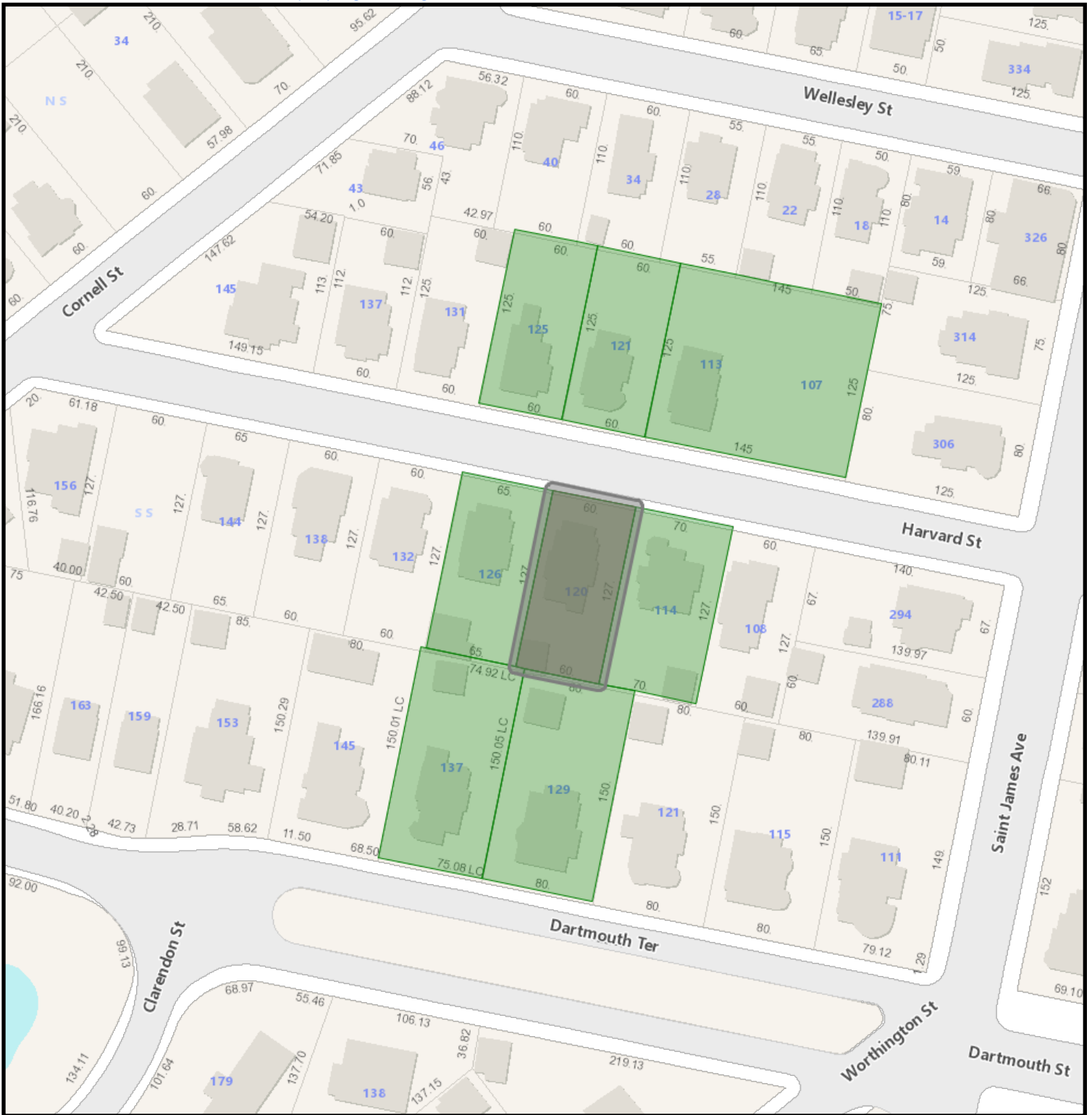
CONFORMS TO
UL2703

ISO 9001:2015
14001:2015
CERTIFIED







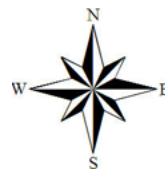


120 Harvard Street GIS Map

12/30/2025 10:28:44 AM

Scale: 1"=100'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

036420020
A DIFFERENT PERSPECTIVE
PO BOX 6653
HAMDEN, CT 06517

063800037
BONGIOVANNI CORINNE
113 HARVARD ST
SPRINGFIELD, MA 01109

063800021
HUDSON DORCUS N
114 HARVARD ST
SPRINGFIELD, MA 01109

036420022
MERRILL-BAKER BARRY D &
129 DARTMOUTH TER
SPRINGFIELD, MA 01109

063800022
MUTHUA CHARLES
114 HARVARD ST
SPRINGFIELD, MA 01109

063800034
POWERS OSCAR &
125 HARVARD ST
SPRINGFIELD, MA 01109

063800023
REED LAKEISHA MARIE
126 HARVARD ST
SPRINGFIELD, MA 01109

063800035
ZAGARINS JURIS & ROBIN
121 HARVARD ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 35 Riverview Terrace, Springfield, MA 01108

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>Forest Park Heights</i>	DECISION:
DATE RECEIVED: <i>December 24, 2025</i>	DECISION DATE:
HEARING DATE: <i>January 15, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>December 30, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>December 30, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 35 Riverview Terrace, Springfield, MA 01108

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 35 Riverview Terrace, Springfield, MA 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Cynthia Tucker		
OWNER ADDRESS: <input checked="" type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: (413) 222-2034	REPRESENTATIVE/CONTRACTOR NAME: Trinity Solar/Michael Blanchard	
OWNER EMAIL ADDRESS: ctucker44@verizon.net	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 413-203-9088	
PROPERTY CODE: 10287-0004	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: applications.westma@trinity-solar.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Due to high electrical bills, the homeowner proposes to have solar panels installed. Trinity Solar would be installing 11.48 kW DC (28 panels).		PROPOSED MODIFICATIONS (Please check all that apply) <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input checked="" type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Cynthia Tucker (Dec 24, 2025 09:55:26 EST)

PROPERTY OWNER'S SIGNATURE

12/24/2025

DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):		
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):		
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
ADDITIONAL INFORMATION:		

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

- YES (PLEASE PROVIDE MORE INFO ABOVE)
 No

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	
NUMBER OF SOLAR POWERED PANELS:	
SOLAR MANUFACTURER:	
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	
LOCATION OF CONDUIT (e.g. side of building, inside the house):	
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	



HOMEOWNER AUTHORIZATION FORM

I, _____,
(print name)
am the owner of the property located at address:

(print address)

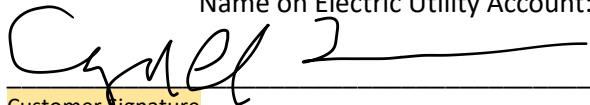
I hereby authorize Trinity Solar, LLC ("Trinity Solar") and its employees, agents, and subcontractors, to act as my Agent for the limited purpose of applying for and obtaining local building and other permits from the Authority Having Jurisdiction as required for the installation of a Photovoltaic System, Battery System, roofing or other Trinity Solar offerings located on my property, applying and obtaining permission and approval for interconnection with the electric utility company, and registration with any state and/or local incentive program(s).

This authorization includes the transfer/re-administering, and/or cancellation of any existing permits on file for the purpose of updating/applying with an alternate subcontractor.

Without limitation to the generality of the foregoing I specifically authorize Trinity Solar et al. to populate technical details, fill-in, edit, compile, attach drawings, plans, data sheets and other documentation to, date, submit, re-submit, revise, amend, and modify application, submission and certification documents ("Approvals Paperwork"), including those for which signature pages are included herewith for my signature, in furtherance of the related transaction, and I am providing any signatures to Approvals Paperwork for purposes of the foregoing. Trinity Solar will provide copies of Approvals Paperwork upon request by the homeowner. Should I cancel the project, for reasons within my control, after Trinity Solar has paid for any permitting fees, I shall reimburse Trinity Solar for all expenses incurred related hereto.

My authorizations memorialized herein shall remain in full force and effect until revoked. I acknowledge that these authorizations are not required to proceed with the transaction and are not a condition of the related agreement included herewith but are being given for my own convenience and benefit in order to expedite the approvals processes.

Electric Utility Company: _____
Electric Utility Account No.: _____
Electric Meter No.: _____
Name on Electric Utility Account: _____


Customer Signature

Print Name

Date

Corporate Headquarters
2211 Allenwood Road
Wall, New Jersey 07719
www.Trinity-Solar.com

1-877-SUN-SAVES
Ph: 732-780-3779
Fax: 732-780-6671

**FOR INFORMATION ABOUT CONTRACTORS AND THE CONTRACTORS' REGISTRATION ACT,
CONTACT THE NEW JERSEY DEPARTMENT OF LAW AND PUBLIC SAFETY,
DIVISION OF CONSUMERS AFFAIRS AT 1-888-656-6225.**

INSTALLATION OF NEW ROOF MOUNTED PV SOLAR SYSTEM

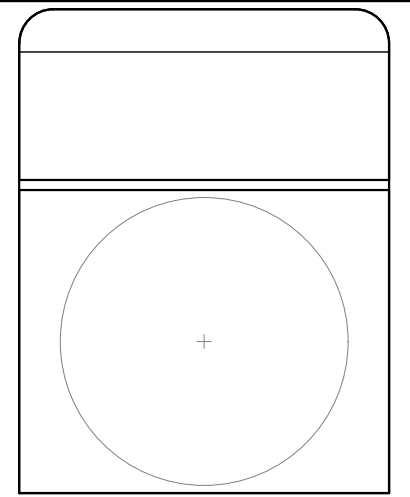
35 RIVERVIEW TERRACE SPRINGFIELD, MA 01108

RIVERVIEW TERRACE ●



VICINITY MAP
SCALE: NTS

SITE



Issued / Revisions		
NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	8/28/2025

Project Title:
TUCKER, CYNTHIA-
TRINITY ACCT #: 2025-08-1386697

Project Address:
35 RIVERVIEW TERRACE
SPRINGFIELD, MA 01108
42.0853, -72.5735

Drawing Title:
PROPOSED PV SOLAR SYSTEM

Drawing Information	
DRAWING DATE:	8/28/2025
DRAWN BY:	PM
REVISED BY:	

System Information:	
DC SYSTEM SIZE:	11.48kW
AC SYSTEM SIZE:	10kW
MODULE COUNT:	28
MODULES USED:	HANWHA 410
MODULE SPEC #:	Q.PEAK DUO BLK ML-G10.C+ 410
UTILITY COMPANY:	EVERSOURCE
UTILITY ACCT #:	72002633062
UTILITY METER #:	960486972
DEAL TYPE:	GOODLEAP

Rev. No.	Sheet
P1	PV - 1



2211 Allenwood Road Wall, New Jersey 07719 877-786-7283 www.Trinity-Solar.com

GENERAL NOTES

1. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTIONS CONTAINED IN THE DRAWING PACKAGE AND INFORMATION RECEIVED FROM TRINITY.
2. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND FOLLOWING ALL DIRECTIONS AND INSTRUCTION CONTAINED IN THE COMPLETE MANUAL.
3. THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR READING AND UNDERSTANDING ALL DRAWINGS, COMPONENT AND INVERTER MANUALS PRIOR TO INSTALLATION. THE INSTALLATION CONTRACTOR IS ALSO REQUIRED TO HAVE ALL COMPONENT SWITCHES IN THE OFF POSITION AND FUSES REMOVED PRIOR TO THE INSTALLATION OF ALL FUSE BEARING SYSTEM COMPONENTS.
4. ONCE THE PHOTOVOLTAIC MODULES ARE MOUNTED, THE INSTALLATION CONTRACTOR SHOULD HAVE A MINIMUM OF ONE ELECTRICIAN WHO HAS ATTENDED A SOLAR PHOTOVOLTAIC INSTALLATION COURSE ON SITE.
5. FOR SAFETY, IT IS RECOMMENDED THAT THE INSTALLATION CREW ALWAYS HAVE A MINIMUM OF TWO PERSONS WORKING TOGETHER AND THAT EACH OF THE INSTALLATION CREW MEMBERS BE TRAINED IN FIRST AID AND CPR.
6. THIS SOLAR PHOTOVOLTAIC SYSTEM IS TO BE INSTALLED FOLLOWING THE CONVENTIONS OF THE NATIONAL ELECTRICAL CODE. ANY LOCAL CODE WHICH MAY SUPERSEDE THE NEC SHALL GOVERN.
7. ALL SYSTEM COMPONENTS TO BE INSTALLED WITH THIS SYSTEM ARE TO BE "UL" LISTED. ALL EQUIPMENT WILL BE NEMA 3R OUTDOOR RATED UNLESS INDOORS.

GENERAL NOTES

IF ISSUED DRAWING IS MARKED WITH A REVISION CHARACTER OTHER THAN "A", PLEASE BE ADVISED THAT FINAL EQUIPMENT AND/OR SYSTEM CHARACTERISTICS ARE SUBJECT TO CHANGE DUE TO AVAILABILITY OF EQUIPMENT.

GENERAL NOTES CONTINUED

8. THE DC VOLTAGE FROM THE PANELS IS ALWAYS PRESENT AT THE DC DISCONNECT ENCLOSURE AND THE DC TERMINALS OF THE INVERTER DURING DAYLIGHT HOURS. ALL PERSONS WORKING ON OR INVOLVED WITH THE PHOTOVOLTAIC SYSTEM ARE WARNED THAT THE SOLAR MODULES ARE ENERGIZED WHENEVER THEY ARE EXPOSED TO LIGHT.
9. ALL PORTIONS OF THIS SOLAR PHOTOVOLTAIC SYSTEM SHALL BE MARKED CLEARLY IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 690 & 705.
10. PRIOR TO THE INSTALLATION OF THIS PHOTOVOLTAIC SYSTEM, THE INSTALLATION CONTRACTOR SHALL ATTEND A PRE-INSTALLTION MEETING FOR THE REVIEW OF THE INSTALLATION PROCEDURES, SCHEDULES, SAFETY AND COORDINATION.
11. PRIOR TO THE SYSTEM START UP THE INSTALLATION CONTRACTOR SHALL ASSIST IN PERFORMING ALL INITIAL HARDWARE CHECKS AND DC WIRING CONDUCTIVITY CHECKS.
12. FOR THE PROPER MAINTENANCE AND ISOLATION OF THE INVERTERS REFER TO THE ISOLATION PROCEDURES IN THE OPERATION MANUAL.
13. THE LOCATION OF PROPOSED ELECTRIC AND TELEPHONE UTILITIES ARE SUBJECT TO FINAL APPROVAL OF THE APPROPRIATE UTILITY COMPANIES AND OWNERS.
14. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE SITE IMPROVEMENTS SHOWN HEREIN SHALL BE IN ACCORDANCE WITH:
 - A) CURRENT PREVAILING MUNICIPAL AND/OR COUNTY SPECIFICATIONS, STANDARDS AND REQUIREMENTS

GENERAL NOTES CONTINUED

14. B) CURRENT PREVAILING UTILITY COMPANY SPECIFICATIONS, STANDARDS, AND REQUIREMENTS
15. THIS SET OF PLANS HAVE BEEN PREPARED FOR THE PURPOSE OF MUNICIPAL AND AGENCY REVIEW AND APPROVAL. ONCE APPROVED, THE INSTALLATION CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL SYSTEM COMPONENTS AS DESCRIBED IN THE DRAWING PACKAGE.
16. ALL INFORMATION SHOWN MUST BE CERTIFIED PRIOR TO USE FOR CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

AMP	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
AF	AMP. FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AWG	AMERICAN WIRE GAUGE
C	CONDUIT (GENERIC TERM OF RACEWAY, PROVIDE AS SPECIFIED)
CB	COMBINER BOX
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT SWITCH
DWG	DRAWING
EC	ELECTRICAL SYSTEM INSTALLER
EMT	ELECTRICAL METALLIC TUBING
FS	FUSIBLE SWITCH
FU	FUSE
GND	GROUND
GFI	GROUND FAULT INTERRUPTER
HZ	FREQUENCY (CYCLES PER SECOND)

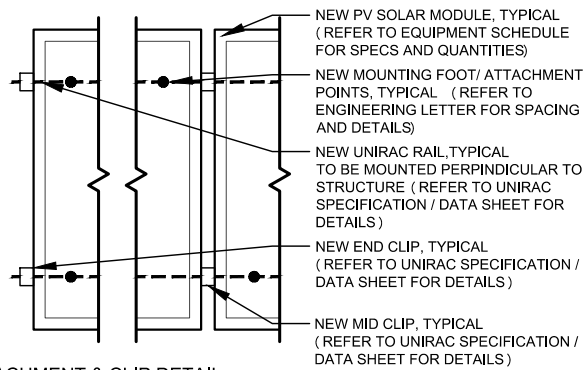
ABBREVIATIONS CONTINUED

JB	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILO-VOLT AMPERE
KW	KILO-WATT
KWH	KILO-WATT HOUR
L	LINE
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUG ONLY
MTD	MOUNTED
MTG	MOUNTING
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO #	NUMBER
NTS	NOT TO SCALE
OCP	OVER CURRENT PROTECTION
P	POLE
PB	PULL BOX
PH ∅	PHASE
PVC	POLY-VINYL CHLORIDE CONDUIT
PWR	POWER
QTY	QUANTITY
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL
JSWBD	SWITCHBOARD
TYP	TYPICAL
U.O.I.	UNLESS OTHERWISE INDICATED
WP	WEATHERPROOF
XFMR	TRANSFORMER
+72	MOUNT 72 INCHES TO BOTTOM OF ABOVE FINISHED FLOOR OR GRADE

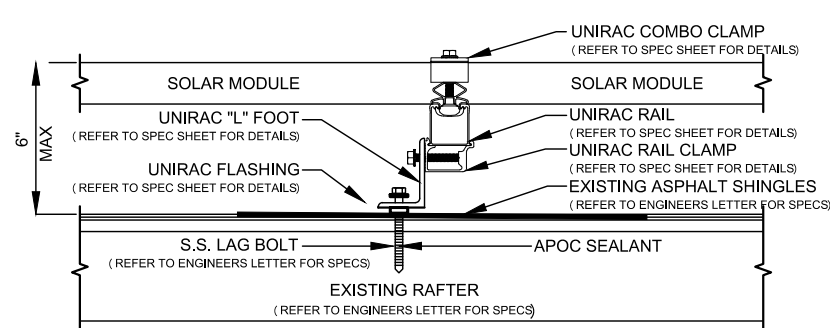
SHEET INDEX

- PV-1 COVER SHEET W/ SITE INFO & NOTES
- PV-2 ROOF PLAN W/ MODULE LOCATIONS
- PV-3 PROPERTY LINE
- PV-4 ELECTRICAL 3 LINE DIAGRAM
- AP APPENDIX

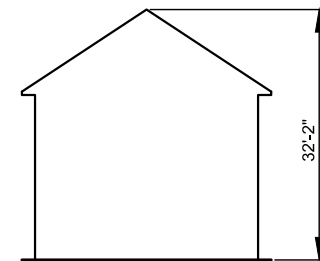
NOTES : *REFER TO MODULE SPECS FOR MODULE DIMENSIONS
 *DEPICTED MODULES MAY BE PORTRAIT OR LANDSCAPE



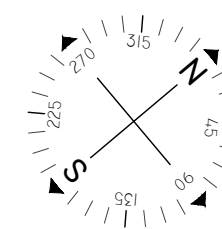
ATTACHMENT & CLIP DETAIL
 SCALE: NOT TO SCALE



PV MODULE ATTACHMENT ON ASPHALT SHINGLE ROOF
 SCALE: NOT TO SCALE



HEIGHT FROM GROUND LEVEL TO PEAK OF ROOF
 SCALE: NOT TO SCALE



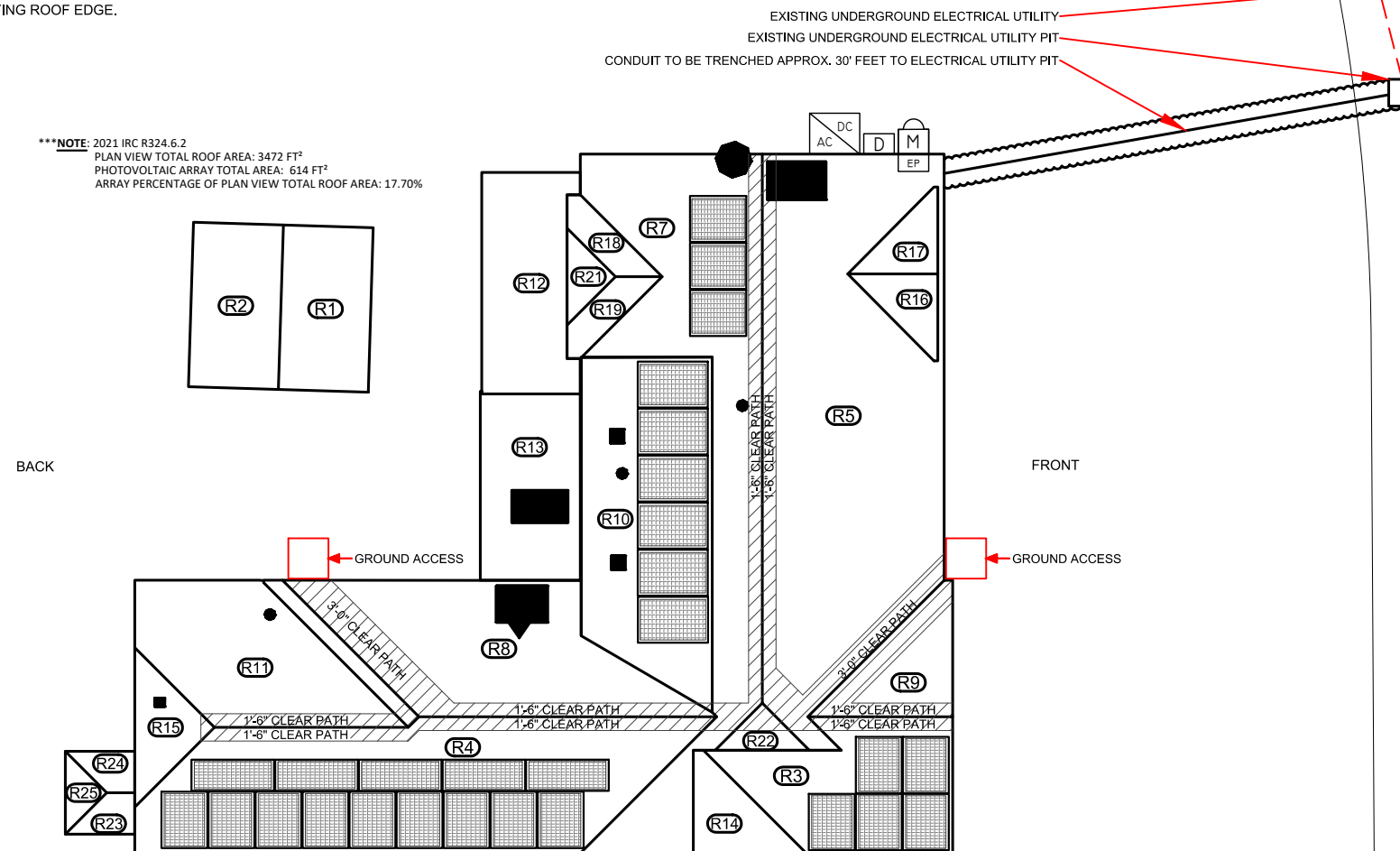
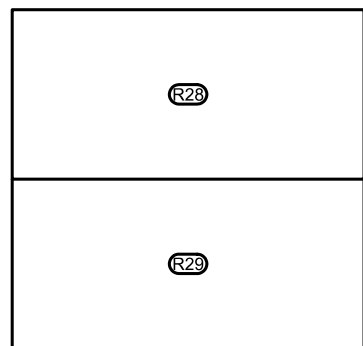
ARRAY SCHEDULE

ROOF 1 MODULES: 0 PITCH: 18° ORIENTATION: 42°	ROOF 21 MODULES: 0 PITCH: 47° ORIENTATION: 220°
ROOF 2 MODULES: 0 PITCH: 18° ORIENTATION: 222°	ROOF 22 MODULES: 0 PITCH: 47° ORIENTATION: 130°
ROOF 3 MODULES: 5 PITCH: 47° ORIENTATION: 130	ROOF 23 MODULES: 0 PITCH: 30° ORIENTATION: 130°
ROOF 4 MODULES: 14 PITCH: 47° ORIENTATION: 130	ROOF 24 MODULES: 0 PITCH: 30° ORIENTATION: 310°
ROOF 5 MODULES: 0 PITCH: 47° ORIENTATION: 40°	ROOF 25 MODULES: 0 PITCH: 30° ORIENTATION: 220°
ROOF 6 MODULES: 0 PITCH: 47° ORIENTATION: 220°	ROOF 26 MODULES: 0 PITCH: 57° ORIENTATION: 220°
ROOF 7 MODULES: 3 PITCH: 47° ORIENTATION: 220	ROOF 27 MODULES: 0 PITCH: 57° ORIENTATION: 40°
ROOF 8 MODULES: 0 PITCH: 47° ORIENTATION: 310°	ROOF 28 MODULES: 0 PITCH: 27° ORIENTATION: 310°
ROOF 9 MODULES: 0 PITCH: 47° ORIENTATION: 310°	ROOF 29 MODULES: 0 PITCH: 27° ORIENTATION: 130°
ROOF 10 MODULES: 6 PITCH: 32° ORIENTATION: 220	
ROOF 11 MODULES: 0 PITCH: 47° ORIENTATION: 310°	
ROOF 12 MODULES: 0 PITCH: 5° ORIENTATION: 220°	
ROOF 13 MODULES: 0 PITCH: 10° ORIENTATION: 220°	
ROOF 14 MODULES: 0 PITCH: 47° ORIENTATION: 40°	
ROOF 15 MODULES: 0 PITCH: 47° ORIENTATION: 220°	
ROOF 16 MODULES: 0 PITCH: 47° ORIENTATION: 130°	
ROOF 17 MODULES: 0 PITCH: 47° ORIENTATION: 310°	
ROOF 18 MODULES: 0 PITCH: 47° ORIENTATION: 310°	
ROOF 19 MODULES: 0 PITCH: 47° ORIENTATION: 130°	
ROOF 20 MODULES: 0 PITCH: 47° ORIENTATION: 220°	

NOTES:

- 1.) ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 2.) ARRAY BONDING TO COMPLY WITH MANUFACTURER SPECIFICATION.
- 3.) ALL LOCATIONS ARE APPROXIMATE AND REQUIRE FIELD VERIFICATION.
- 4.) AN AC DISCONNECT SHALL BE GROUPED WITH INVERTER (S) NEC 690.13 (E) .
- 5.) ALL OUTDOOR EQUIPMENT SHALL BE RAIN TIGHT WITH MINIMUM NEMA 3R RATING.
- 6.) ROOFTOP SOLAR INSTALLATION ONLY PV ARRAY SHALL NOT EXTEND BEYOND THE EXISTING ROOF EDGE.

***NOTE: 2021 IRC R324.6.2
 PLAN VIEW TOTAL ROOF AREA: 3472 FT²
 PHOTOVOLTAIC ARRAY TOTAL AREA: 614 FT²
 ARRAY PERCENTAGE OF PLAN VIEW TOTAL ROOF AREA: 17.70%



SYMBOL LEGEND

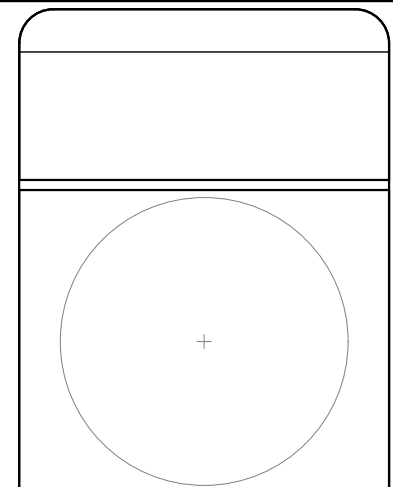
R1	INDICATES ROOF DESIGNATION . REFER TO ARRAY SCHEDULE FOR MORE INFORMATION	UD	INDICATES NEW UNFUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	SP	INDICATES NEW PV ONLY SUBPANEL TO BE INSTALLED
M	INDICATES EXISTING METER LOCATION		INDICATES NEW PV SOLAR MODULE. RED MODULES INDICATE PANELS THAT USE MICRO INVERTERS. REFER TO EQUIPMENT SCHEDULE FOR SPECS.	DC	INDICATES NEW DC DISCONNECT
EP	INDICATES EXISTING ELECTRICAL PANEL LOCATION: INSIDE	P	INDICATES NEW PRODUCTION METER TO BE INSTALLED OUTSIDE.	SD	INDICATES EXISTING SERVICE DISCONNECT
D	INDICATES NEW FUSED PV DISCONNECT TO BE INSTALLED OUTSIDE (UTILITY ACCESSIBLE)	DC/AC	INDICATES NEW INVERTER TO BE INSTALLED OUTSIDE. REFER TO EQUIPMENT SCHEDULE FOR SPECS	TS	INDICATES EXISTING TRANSFER SWITCH

PLUMBING SCHEDULE

OTHER OBSTRUCTIONS

EQUIPMENT SCHEDULE

QTY	SPEC #
28	HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)
1	USE10000H-USMNB78
28	U650 SE OPTIMIZERS
18	UNIRAC 171RLM1-US NXT UMount RAIL - 171" MILL (US)
12	UNIRAC RLSPLCM2-US NXT UMount RAIL SPLICE (US)



Issued / Revisions		
P1	ISSUED TO TOWNSHIP FOR PERMIT	8/28/2025
NO.	DESCRIPTION	DATE

Project Title:
 TUCKER, CYNTHIA-
 TRINITY ACCT #: 2025-08-1386697

Project Address:
 35 RIVERVIEW TERRACE
 SPRINGFIELD, MA 01108
 42.0853, -72.5735

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

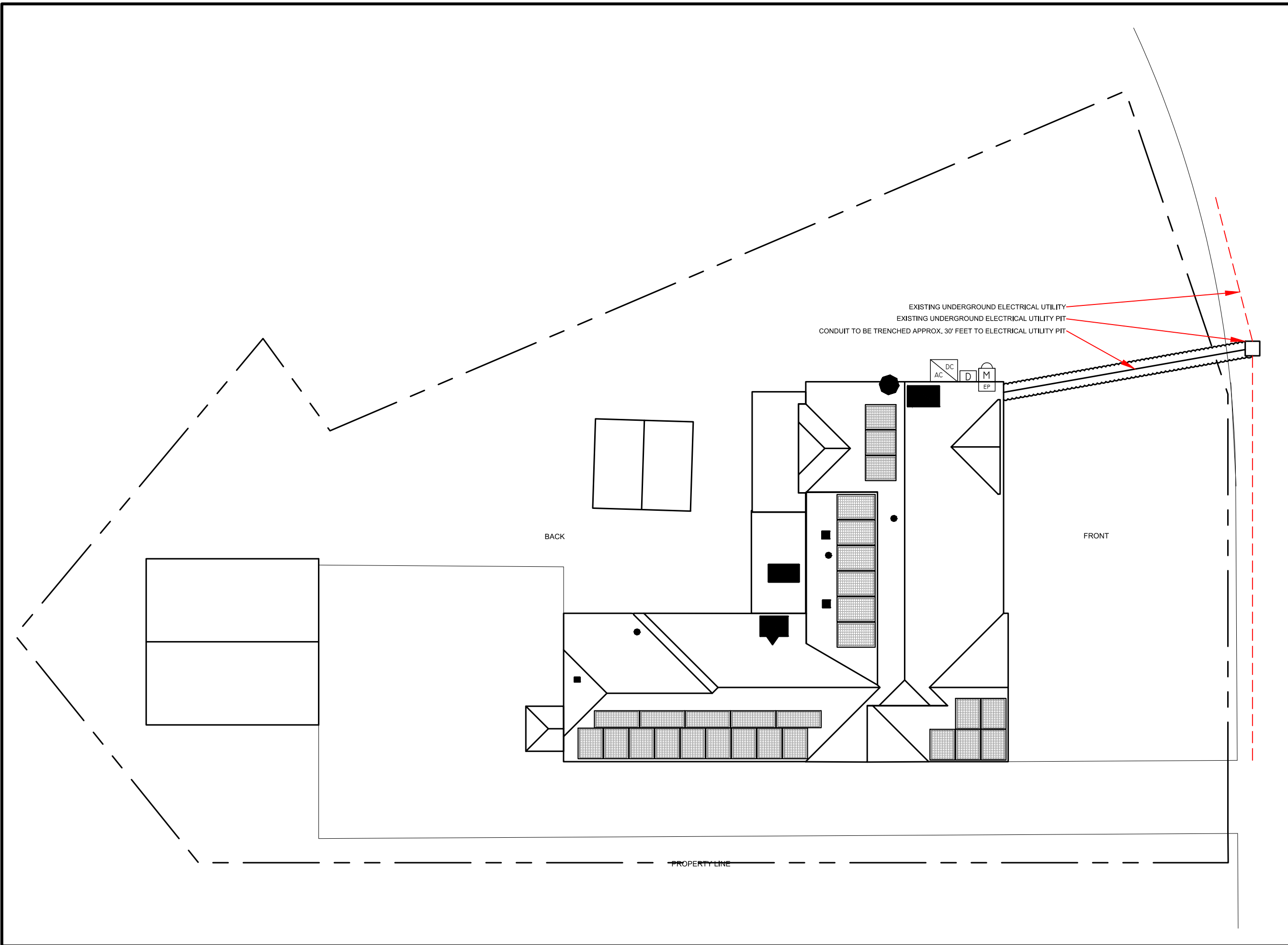
Drawing Information	
DRAWING DATE:	8/28/2025
DRAWN BY:	PM
REVISED BY:	

Rev. No.	Sheet
P1	PV - 2

Trinity
 SOLAR

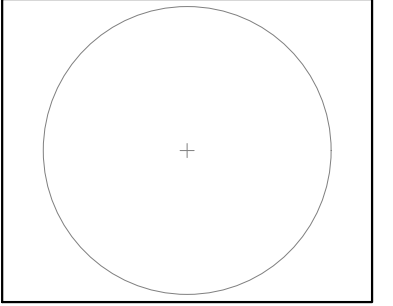
2211 Allenwood Road
 Wall, New Jersey 07719

877-786-7283
 www.Trinity-Solar.com



EXISTING UNDERGROUND ELECTRICAL UTILITY
 EXISTING UNDERGROUND ELECTRICAL UTILITY PIT
 CONDUIT TO BE TRENCHED APPROX. 30' FEET TO ELECTRICAL UTILITY PIT

Engineer / License Holder:



Issued / Revisions		
NO.	DESCRIPTION	DATE
P1	ISSUED TO TOWNSHIP FOR PERMIT	8/28/2025

Project Title:
 TUCKER, CYNTHIA-
 TRINITY ACCT #: 2025-08-1386697

Project Address:
 35 RIVERVIEW TERRACE
 SPRINGFIELD, MA 01108
 42.0853, -72.5735

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information
 DRAWING DATE: 8/28/2025
 DRAWN BY: PM
 REVISED BY:

System Information:
 DC SYSTEM SIZE: 11.48kW
 AC SYSTEM SIZE: 10kW
 MODULE COUNT: 28
 MODULES USED: HANWHA 410
 MODULE SPEC #: Q.PEAK DUO BLK ML-G10.C+ 410
 UTILITY COMPANY: EVERSOURCE
 UTILITY ACCT #: 72002633062
 UTILITY METER #: 960486972
 DEAL TYPE: GOODLEAP

Rev. No.	Sheet
P1	PV - 3

ARRAY CIRCUIT WIRING NOTES

1.) LICENSED ELECTRICIAN ASSUMES ALL RESPONSIBILITY FOR DETERMINING ONSITE CONDITIONS AND EXECUTING INSTALLATION IN ACCORDANCE WITH **NEC 2023**

2.) LOWEST EXPECTED AMBIENT TEMPERATURE BASED ON ASHRAE MINIMUM MEAN EXTREME DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. LOWEST EXPECTED AMBIENT TEMP = -16°C

3.) HIGHEST CONTINUOUS AMBIENT TEMPERATURE BASED ON ASHRAE HIGHEST MONTH 2% DRY BULB TEMPERATURE FOR ASHRAE LOCATION MOST SIMILAR TO INSTALLATION LOCATION. HIGHEST CONTINUOUS TEMP = 33°C

4.) 2005 ASHRAE FUNDAMENTALS 2% DESIGN TEMPERATURES DO NOT EXCEED 47°C IN THE UNITED STATES (PALM SPRINGS, CA IS 44.1°C). FOR LESS THAN 9 CURRENT-CARRYING CONDUCTORS IN A ROOF-MOUNTED SUNLIT CONDUIT AT LEAST 0.5" ABOVE ROOF AND USING THE OUTDOOR DESIGN TEMPERATURE OF 47°C OR LESS (ALL OF UNITED STATES)

5.) PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION THAT CONTROLS SPECIFIC CONDUCTORS IN ACCORDANCE WITH **NEC 690.12(A) THROUGH (D)**

6.) PHOTOVOLTAIC POWER SYSTEMS SHALL BE PERMITTED TO OPERATE WITH UNGROUNDED PHOTOVOLTAIC SOURCE AND OUTPUT CIRCUIT PER **NEC 690.41 (A)(4)**

7.) UNGROUNDED DC CIRCUIT CONDUCTORS SHALL BE IDENTIFIED WITH THE FOLLOWING OUTER FINISH:
 POSITIVE CONDUCTORS = RED
 NEGATIVE CONDUCTORS = BLACK
NEC 210.5(C)(2)

8.) ARRAY AND SUB ARRAY CONDUCTORS SHALL BE #10 PV WIRE TYPE RHW-2 OR EQUIVALENT AND SHALL BE PROTECTED BY CONDUIT WHERE EXPOSED TO DIRECT SUNLIGHT. SUB ARRAY CONDUIT LONGER THAN 24" SHALL CONTAIN ≤ 20 CURRENT CARRYING CONDUCTORS AND WHERE EXPOSED TO DIRECT SUNLIGHT SHALL CONTAIN ≤ 9 CURRENT CARRYING CONDUCTORS.

9.) ALL WIRE LENGTHS SHALL BE LESS THAN 100' UNLESS OTHERWISE NOTED

10.) FLEXIBLE CONDUIT SHALL NOT BE INSTALLED ON ROOFTOP AND SHALL BE LIMITED TO 12" IF USED OUTDOORS

11.) DISCONNECTS FED BY SUPPLY-SIDE SOURCE CONDUCTORS SHALL BE BONDED AND CONNECTED TO GROUNDING SYSTEM IN ACCORDANCE WITH **NEC 250.24**

12.) OVERCURRENT PROTECTION FOR CONDUCTORS CONNECTED TO THE SUPPLY SIDE OF A SERVICE SHALL BE LOCATED WITHIN 10' OF THE POINT OF CONNECTION **NEC 690.9(A)(3)(2)**

13.) WHERE TWO SOURCES FEED A BUSBAR, ONE A UTILITY AND THE OTHER AN INVERTER, PV BACKFEED BREAKER(S) SHALL BE LOCATED OPPOSITE FROM UTILITY **NEC 705.12(B)(2)**

14.) ALL SOLAR SYSTEM LOAD CENTERS TO CONTAIN ONLY GENERATION CIRCUITS AND NO UNUSED POSITIONS OR LOADS

15.) ALL EQUIPMENT INSTALLED OUTDOORS SHALL HAVE A **NEMA 3R** RATING

CALCULATIONS FOR CURRENT CARRYING CONDUCTORS
 REQUIRED CONDUCTOR AMPACITY PER STRING
[NEC 690.8(B)(1)]: (15.00*1.25)1 = 18.75A

AWG #10, DERATED AMPACITY
 AMBIENT TEMP: 33°C, TEMP DERATING FACTOR: .96
 RACEWAY DERATING = 4 CCC: 0.80
 (40*.96)0.80 = 30.72A

30.72A ≥ 18.75A, THEREFORE WIRE SIZE IS VALID

TOTAL AC REQUIRED CONDUCTOR AMPACITY
 42.00A*1.25 = 52.50A

AWG #6, DERATED AMPACITY
 AMBIENT TEMP: 30°C, TEMP DERATING: 1.0
 RACEWAY DERATING ≤ 3 CCC: N/A
 75A*1.0 = 75A

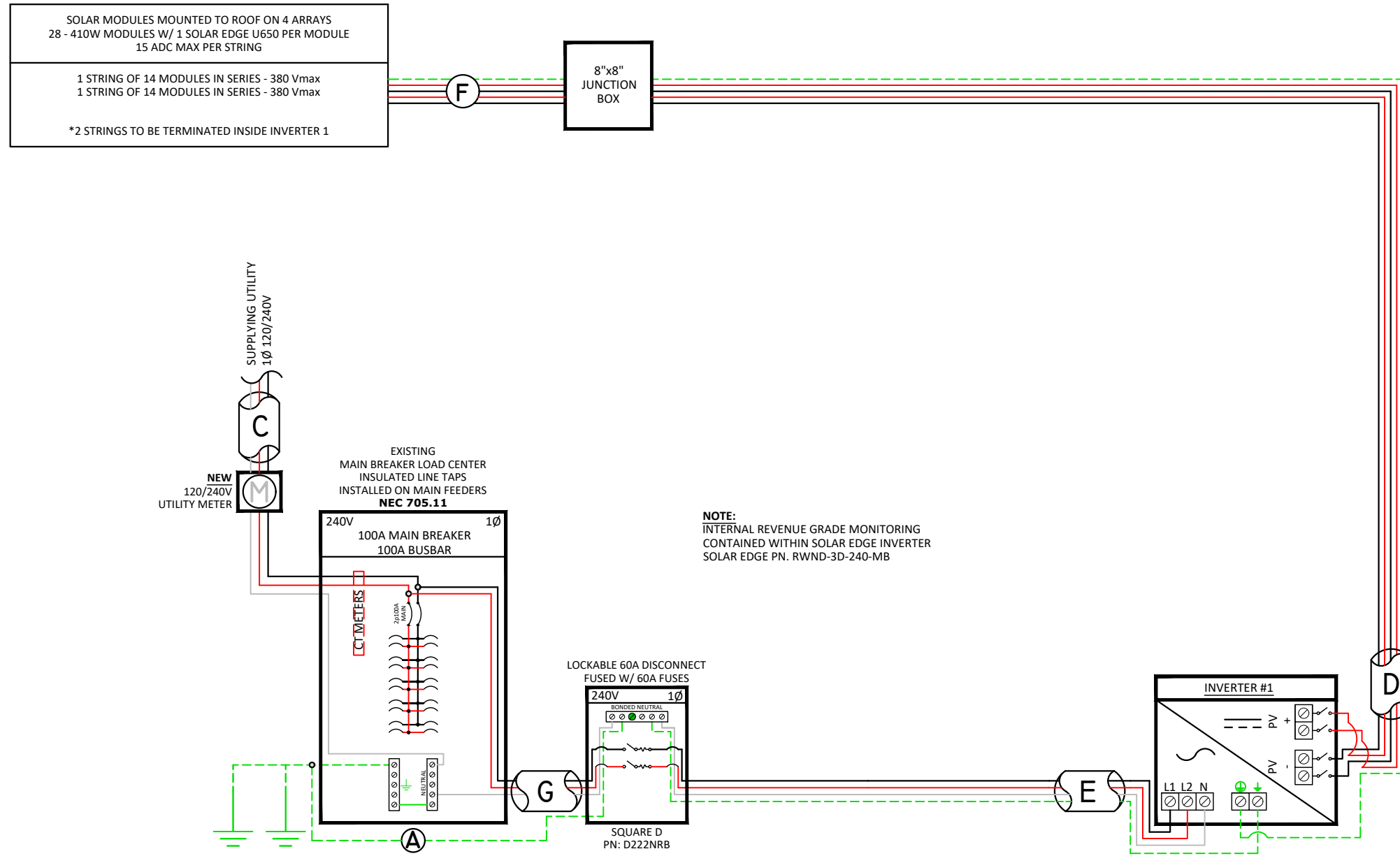
75A ≥ 52.50A, THEREFORE AC WIRE SIZE IS VALID

CALCULATION FOR PV OVERCURRENT PROTECTION

TOTAL INVERTER CURRENT: 42.00A

42.00A*1.25 = 52.50A

-> 60A OVERCURRENT PROTECTION IS VALID



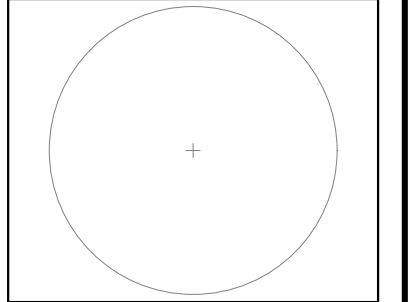
PV MODULE SPECIFICATIONS	
HANWHA 410 (Q.PEAK DUO BLK ML-G10.C+ 410)	
Imp	10.89
Vmp	37.64
Voc	45.37
Isc	11.2

INVERTER #1 - USE10000H-USMNB78			
DC		AC	
Imp	30	Pout	10000
Vmp	380	Imax	42
Voc	480	OCPDmin	52.5
Isc	30	Vnom	240

NOTE: CONDUIT TYPE SHALL BE CHOSEN BY THE INSTALLATION CONTRACTOR TO MEET OR EXCEED NEC AND LOCAL AHJD REQUIREMENTS

A	#6 THWN-2 TO GEC	G	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#6 THWN-2
B	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND		
C	1" CONDUIT W/ 3-#4 XHHW		
D	3/4" CONDUIT W/ 4-#10 THWN-2, 1-#10 THWN-2 GROUND		
E	3/4" CONDUIT W/ 2-#6 THWN-2, 1-#10 THWN-2, 1-#10 THWN-2 GROUND		
F	#10 PV WIRE (FREE AIR) W/ #6 BARE COPPER BOND TO ARRAY		

Engineer / License Holder:



Issued / Revisions		
P1	ISSUED TO TOWNSHIP FOR PERMIT	8/28/2025
NO.	DESCRIPTION	DATE

Project Title:
 TUCKER, CYNTHIA-
 TRINITY ACCT #: 2025-08-1386697

Project Address:
 35 RIVERVIEW TERRACE
 SPRINGFIELD, MA 01108
 42.0853, -72.5735

Drawing Title:
 PROPOSED PV SOLAR SYSTEM

Drawing Information
 DRAWING DATE: 8/28/2025
 DRAWN BY: PM
 REVISED BY:

System Information:
 DC SYSTEM SIZE: 11.48kW
 AC SYSTEM SIZE: 10kW
 MODULE COUNT: 28
 MODULES USED: HANWHA 410
 MODULE SPEC #: Q.PEAK DUO BLK ML-G10.C+ 410
 UTILITY COMPANY: EVERSOURCE
 UTILITY ACCT #: 72002633062
 UTILITY METER #: 960486972
 DEAL TYPE: GOODLEAP

Rev. No. **P1** Sheet **PV - 4**

NOTES:

- 1.) COMPLIES WITH NEC 2023
- 2.) REFER TO SHEET PV-3 FOR SITE SPECIFIC VALUES REQUIRED BY NEC 690
- 3.) STICKERS, LABELS, AND PLACKARDS SHALL BE OF SUFFICIENT DURRABILITY TO WITHSTAND THE ENVIROMENT INVOLVED

To be located on all DC junction boxes and every 10' on DC conduit

WARNING: PHOTOVOLTAIC POWER SOURCE
NEC 690.31(D)(2)



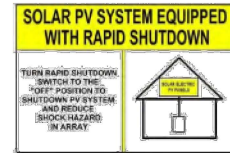
DC Junction Box



Soladeck



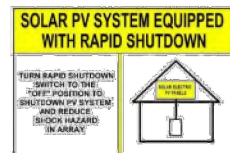
DC Conduit



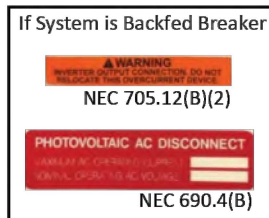
NEC 690.13



Service Disconnect



NEC 690.13



Main Service Panel



Utility Meter Socket



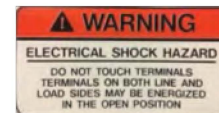
NEC 690.13(B)



Solar Meter Socket



690.56(D)(2)



NEC 690.13(B)



NEC 690.4(B)



Photovoltaic AC Disconnect



NEC 690.4(B)



Load Center (To Combine Inverters)



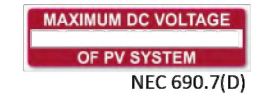
690.56(D)(2)



NEC 690.13(B)



NEC 690.4(B)



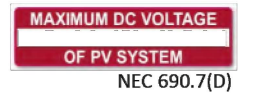
NEC 690.7(D)



Inverter(s)



NEC 690.4(B)



NEC 690.7(D)



DC Disconnect



NEC 690.13(B)



Enphase Envoy Box

Trinity
SOLAR

2211 Allenwood Road Wall, New Jersey 07719
877-786-7283 www.Trinity-Solar.com

Q.PEAK DUO BLK ML-G10+ SERIES



395 - 415 Wp | 132 Cells
21.1% Maximum Module Efficiency
Domestic Content Option Available

MODEL *Q.PEAK DUO BLK ML-G10+
 Q.PEAK DUO BLK ML-G10.C+



Includes Domestic Content

This product contains U.S. manufactured components which can contribute to qualifying for the 10% domestic content bonus to applicable tax credits under the Inflation Reduction Act of 2022.¹



Breaking the 21% efficiency barrier

Q.ANTUM DUO Z Technology with zero gap cell layout boosts module efficiency up to 21.1%.



A reliable investment

Inclusive 25-year product warranty and 25-year linear performance warranty.²



Enduring high performance

Long-term yield security with Anti LeTID Technology, Anti PID Technology³ and Hot-Spot Protect.



Extreme weather rating

High-tech aluminum alloy frame, certified for high snow (5400 Pa) and wind loads (4000 Pa).



Far beyond the standard

Qcells' comprehensive quality program ensures high long-term yields and the reliability of your solar system.

¹ This statement should not be relied on as tax advice and is subject to change based on changes made to the Inflation Reduction Act and its implementing rules and regulations. Please consult a qualified tax professional for specific guidance.

² See data sheet on rear for further information.

³ APT test conditions according to IEC/TS 62804-1:2015, method A (-1500 V, 96 h)

The ideal solution for:



*DCA Module Option:

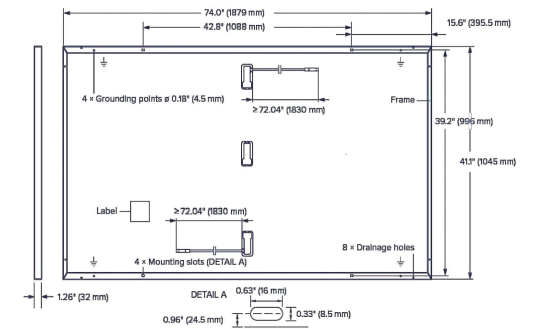
DCA 17 module has material code 'MD06G100A-017' printed on the module power label.



Q.PEAK DUO BLK ML-G10+ SERIES

Mechanical Specification

Format	74.0 in × 41.1 in × 1.26 in (including frame) (1879 mm × 1045 mm × 32 mm)
Weight	48.5 lbs (22.0 kg)
Front Cover	0.13 in (3.2 mm) thermally pre-stressed glass with anti-reflection technology
Back Cover	Composite film
Frame	Black anodized aluminum
Cell	6 × 22 monocrystalline Q.ANTUM solar half cells
Junction box	2.09-3.98 in × 1.26-2.36 in × 0.59-0.71 in (53-101 mm × 32-60 mm × 15-18 mm), IP67, with bypass diodes
Cable	4 mm ² Solar cable; (+) ≥ 72.04 in (1830 mm), (-) ≥ 72.04 in (1830 mm)
Connector	Stäubli MC4; IP68



Electrical Characteristics

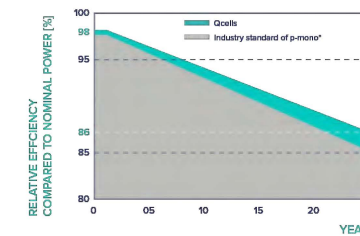
POWER CLASS		395	400	405	410	415	
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5 W / -0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	395	400	405	410	415
	Short Circuit Current ¹	I _{SC} [A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage ¹	V _{OC} [V]	45.27	45.30	45.34	45.37	45.41
	Current at MPP	I _{MPP} [A]	10.71	10.77	10.83	10.89	10.95
	Voltage at MPP	V _{MPP} [V]	36.88	37.13	37.39	37.64	37.89
	Efficiency ¹	η [%]	≥ 20.1	≥ 20.4	≥ 20.6	≥ 20.9	≥ 21.1

MINIMUM PERFORMANCE AT NORMAL OPERATING CONDITIONS, NMOT²

Minimum	Power at MPP	P _{MPP} [W]	296.3	300.1	303.8	307.6	311.3
	Short Circuit Current	I _{SC} [A]	8.95	8.97	9.00	9.03	9.05
	Open Circuit Voltage	V _{OC} [V]	42.69	42.72	42.76	42.79	42.83
	Current at MPP	I _{MPP} [A]	8.46	8.51	8.57	8.62	8.68
	Voltage at MPP	V _{MPP} [V]	35.03	35.25	35.46	35.68	35.89

¹ Measurement tolerances P_{MPP} ± 3%; I_{SC}; V_{OC} ± 5% at STC: 1000 W/m², 25 ± 2 °C, AM 1.5 according to IEC 60904-3 • ² 800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY

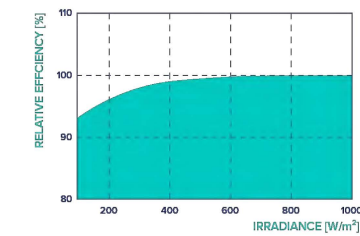


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organization of your respective country.

¹ Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2021)

PERFORMANCE AT LOW IRRADIANCE



Typical module performance under low irradiance conditions in comparison to STC conditions (25 °C, 1000 W/m²).

TEMPERATURE COEFFICIENTS

Temperature Coefficient of I _{SC}	α	[%/K]	+0.04	Temperature Coefficient of V _{OC}	β	[%/K]	-0.27
Temperature Coefficient of P _{MPP}	γ	[%/K]	-0.34	Nominal Module Operating Temperature	NMOT	[°F]	109 ± 5.4 (43 ± 3 °C)

Properties for System Design

Maximum System Voltage	V _{SYS} [V]	1000 (IEC)/1000 (UL)	PV module classification	Class II
Maximum Series Fuse Rating	[A DC]	20	Fire Rating based on ANSI / UL 61730	TYPE 2
Max. Design Load, Push / Pull ¹	[lbs / ft ²]	75 (3600 Pa) / 55 (2660 Pa)	Permitted Module Temperature on Continuous Duty	-40 °F up to +185 °F (-40 °C up to +85 °C)
Max. Test Load, Push / Pull ²	[lbs / ft ²]	113 (5400 Pa) / 84 (4000 Pa)		

³ See Installation Manual

Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, IEC 61215:2016, IEC 61730:2016, U.S. Patent No. 9,893,215 (solar cells),



*Contact your Qcells Sales Representative for details regarding the module's eligibility to be Buy American Act (BAA) compliant.

Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.
 Hempha Q CELLS America Inc. 300 Spectrum Center Drive, Suite 500, Irvine, CA 92618, USA | TEL +1 (949) 748 5996 | EMAIL na.support@qcells.com | WEB www.qcells.com



/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USExxxxH-USMNB78					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
OUTPUT – AC ON GRID						
Maximum AC Power Output	3800 @ 240V 3300 @ 208V	5760 @ 240V 5000 @ 208V	7600 @ 240V 6600 @ 208V	10,000 @ 240V 8700 @ 208V	11,400 @ 240V 10,000 @ 208V	W
AC Output Voltage (Nominal)	208 / 240					Vac
AC Output Voltage (Range)	183 – 264					Vac
AC Frequency Range (min - nom - max)	59.3 – 60 – 60.5 ⁽²⁾					Hz
Maximum Continuous Output Current	16	24	32	42	47.8	A
Maximum Fault Current / Duration	74 / 50					Aac / μ s
GFDI Threshold	1					A
Total Harmonic Distortion (THD)	< 3					%
Power Factor	1, adjustable -0.85 to 0.85					
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes					
Charge Battery from AC (if allowed)	Yes					
Typical Nighttime Power Consumption	< 2.5					W
OUTPUT – AC STANDALONE (BACKUP)⁽³⁾						
Rated AC Power in Standalone Operation ⁽⁴⁾	12,500 ⁽⁵⁾⁽⁶⁾					W
Maximum Continuous Output Current in Standalone Operation	52					A
Locked Rotor Amperage (LRA) ⁽⁷⁾	Up to 106					A
AC L-L Output Voltage Range in Standalone Operation	211 – 264					Vac
AC L-N Output Voltage Range in Standalone Operation	105 – 132					Vac
AC Frequency Range in Standalone Operation (min - nom - max)	55 – 60 – 65					Hz
GFDI	1					A
THD	< 5					%
INPUT – DC (PV AND BATTERY)						
Transformer-less, Ungrounded	Yes					
Maximum Input Voltage	480					Vdc
Nominal DC Input Voltage	380					Vdc
Reverse-Polarity Protection	Yes					
Ground-Fault Isolation Detection	600k Ω Sensitivity					
Maximum Input Short Circuit Current	45					Adc
Maximum Inverter Efficiency	99.2					%
CEC Weighted Efficiency	98.5		99		99 @ 240V 98.5 @ 208V	%
2-Pole Disconnection	Yes					
DC CONNECTION – PV						
Maximum Input Power	7600 @ 240V 6600 @ 208V	11,520 @ 240V 10,000 @ 208V	15,200 @ 240V 13,200 @ 208V	20,000 @ 240V 17,400 @ 208V	22,800 @ 240V 20,000 @ 208V	W
Maximum Input Current	20 @ 240V 17 @ 208V	30 @ 240V 26 @ 208V	40 @ 240V 35 @ 208V	53 @ 240V 46 @ 208V	60 @ 240V 53 @ 208V	Adc
Number of Ports	3					
Maximum Current per Port	40					Adc

(1) These specifications apply to inverters with part number SExxxxH-USMNB78 and connection unit model number DCD-1PH-US-PXH-F-x.

(2) For other regional settings please refer to the [SolarEdge Inverters, Power Control Options](#) application note.

(3) Not designed for non-grid connected applications and requires AC for commissioning. Standalone (backup) functionality is only supported for the 240V grid.

(4) For models SE7600H-US and below, the Rated AC Power in Standalone Operation is configurable between 7,600W with a Maximum Continuous Output Current of 32A or 12,500W with a Maximum Continuous Output Current of 52A, from firmware version 4.23.xx.

(5) Operational only at ambient temperatures up to 86°F / 30°C. Above 86°F / 30°C, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(6) Available only for single inverter installations. In multi-inverter installations, the Maximum Rated AC Power in Standalone Operation is 11,400W.

(7) For more information about LRA (Locked Rotor Amperage) values, see the [SolarEdge Home Hub Inverter LRA](#) application note.



/ SolarEdge Home Hub Inverter

USA Domestic Content Eligible

Single Phase, for North America

SE3800H-US / SE5700H-US / SE7600H-US / SE10000H-US / SE11400H-US

Applicable to inverters with part number	USExxxxH-USMNB78					
Model Number ⁽¹⁾	SE3800H-US	SE5700H-US	SE7600H-US	SE10000H-US	SE11400H-US	
DC CONNECTION – BATTERY						
Supported Battery Types	SolarEdge Home Battery 400V					
Number of Batteries per Inverter	Up to 3					
Maximum Continuous Power (Charge and Discharge) ⁽⁸⁾	12,500					W
Number of Ports	2					
Maximum Current per Port	40					Adc
2-pole Disconnection	Up to the inverter's rated standalone power					
SMART ENERGY CAPABILITIES						
Consumption Metering	Built-in ⁽⁹⁾					
Standalone & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; up to 3 inverters					
EV Charging	Direct connection to the SolarEdge Home EV Charger ⁽¹⁰⁾					
ADDITIONAL FEATURES						
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽¹¹⁾ , Wi-Fi (optional) ⁽¹²⁾ , SolarEdge Home Network ⁽¹³⁾ (optional)					
Revenue Grade Metering, ANSI C12.20	Built-in ⁽⁹⁾					
Integrated AC, DC, and Communication Connection Unit	Yes					
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection					
DC Voltage Rapid Shutdown (PV and Battery)	Yes, NEC 690.12					
STANDARD COMPLIANCE						
Safety	UL 1741, UL 1741SA, UL 1741SB, UL 1699B, CSA 22.2#107.1, C22.2#330, C22.3#9, ANSI/CAN/UL 9540					
Grid Connection Standards	IEEE1547-2018 and IEEE-1547.1 Rule 21, Rule 14H					
Emissions	FCC Part 15 Class B					
Power Control System (PCS)	UL 1741 PCS ⁽¹⁴⁾					
INSTALLATION SPECIFICATIONS						
AC Terminals	L1, L2, N terminal blocks, PE busbar for inverter connection L1, L2 terminal blocks, PE busbar for EV Charger AC connection					
DC Terminals	3 x terminal block pairs for PV input, 2 x terminal block pair for battery input					
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14 – 4 AWG					
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14 – 6 AWG					
Dimensions with Connection Unit (H x W x D)	21.06 x 14.6 x 8.2 / 535 x 370 x 208					in / mm
Weight with Connection Unit	44.9 / 20.3					lb / kg
Noise	< 50					dBa
Cooling	Natural Convection					
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁵⁾					°F / °C
Protection Rating	NEMA 4X					

(8) Discharge power is limited up to the inverter's rated AC power for on-grid applications, and up to 12.5 kW for standalone applications, as well as up to the installed batteries' rating.

(9) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT1250-400NA-20. Revenue grade metering is only for production metering.

(10) For more information about the SolarEdge Home EV Charger, refer to the [SolarEdge Home EV Charger](#) datasheet.

(11) Purchased separately. Information concerning the data plan terms & conditions is available in [SolarEdge Communication Plan Terms and Conditions](#).

(12) External Wi-Fi antenna for wider range provided with the inverter's package. Refer to the [Antenna for Wi-Fi and ZigBee Wireless Communications](#) datasheet.

(13) SolarEdge Home Network Plugin ENET-HBNP-01 purchased separately. For more information, refer to the [SolarEdge Home Network Plugin](#) datasheet.

(14) Only part numbers USExxxxH-USMNB7x support the PCS meter.

(15) Full power up to at least 122°F / 50°C. For power derating information refer to the [Temperature Derating for North America](#) technical note.



Power Optimizer

USA Domestic Content Eligible*

For North America
U650 / U650B

POWER OPTIMIZER



SolarEdge's USA-manufactured offering for PV power optimization at the module level

- Eligible for domestic content: SolarEdge USA-manufactured Power Optimizers*, when paired with certain SolarEdge inverters, are intended to be eligible for the enhanced federal income tax credit for domestic content
- Specifically designed to work with SolarEdge inverters
- Supports high open circuit voltage (Voc) modules with U650B
- U650B provides improved design flexibility of multifaceted, complex roofs, with extended output voltage that reduces yield factor losses
- Superior efficiency (99.5%)
- Mitigates diverse types of module mismatch loss, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Faster installations with simplified wire management and easy assembly using a single bolt
- Compatible with a wide range of modules, including high-powered and bifacial PV modules
- Advanced safety:
 - Patented Sense Connect technology, designed to automatically detect and prevent potential electric arcs at the connector level before an arc is created
 - Patented SafeDC™ – module-level voltage shutdown, for installer and firefighter safety
 - Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)

* Manufactured by SolarEdge with the intent to be eligible for inclusion under the elective safe harbor in calculating the Domestic Content Percentage under the "Rooftop (MLPE)" category (under IRS Notice 2024-41). The PCBA, Electrical Parts, and Enclosure are domestically manufactured to meet the requirements of eligibility to be considered for the ITC domestic content bonus adder. SolarEdge does not provide tax and/or legal advice. You should consult with your own legal and/or tax advisor(s) regarding the eligibility of your project for the ITC or PTC, including the 10% domestic content bonus, to determine how the applicable rules apply to your particular project. The forward-looking statements in this datasheet are accurate as of the date herein and are subject to change. For more information, please contact your local SolarEdge sales representative.

Power Optimizer

USA Domestic Content Eligible, for North America

U650 / U650B

	U650	U650B	Units
INPUT			
Rated Input DC Power ⁽¹⁾	650		W
Absolute Maximum Input Voltage (Voc)	60	100	Vdc
MPPT Operating Range	8 – 60	12.5 – 100	Vdc
Maximum Input Current (Maximum Isc of Connected PV Module)	15		Adc
Maximum Input Short Circuit Current ⁽²⁾	18.75		Adc
Maximum Efficiency	99.5		%
Weighted Efficiency	98.6		%
Overvoltage Category	II		
OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)			
Maximum Output Current	15		Adc
Maximum Output Voltage	60	80	Vdc
OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR INVERTER OFF)			
Safety Output Voltage per Power Optimizer	1 ± 0.1		Vdc
STANDARD COMPLIANCE			
Photovoltaic Rapid Shutdown System	CSA C22.2#330, NEC 2014 – 2023		
EMC	FCC Part 15 Class B, IEC 61000-6-2, IEC 61000-6-3		
Safety	CSA C22.2#107.1, IEC 62109-1 (Class II safety), UL 1741		
Material	UL 94 V-0, UV Resistant		
RoHS	Yes		
Fire Safety	VDE-AR-E 2100-712:2013-05		
INSTALLATION SPECIFICATIONS			
Maximum Allowed System Voltage	1000		Vdc
Dimensions (W x L x H)	129 x 155 x 30 / 5.07 x 6.10 x 1.18	129 x 165 x 45 / 5.07 x 6.49 x 1.77	mm / in
Weight	720 / 1.6	790 / 1.74	gr / lb
Input Connector	MC4		
Input Wire Length	0.1 / 0.32		m / ft
Output Connector	MC4		
Output Wire Length	(+) 2.3, (-) 0.10 / (+) 7.54, (-) 0.32		m / ft
Operating Temperature Range ⁽³⁾	-40 to +85		°C
Protection Rating	IP68 / NEMA6P		
Relative Humidity	0 – 100		%


(1) The Rated Power of the module at STC will not exceed the power optimizer's Rated Input DC Power. Modules with up to +5% power tolerance are allowed.
 (2) The Maximum Input Short Circuit Current is adjusted for worst case conditions of ambient temperature, irradiance, bifacial gain, and so on, in accordance with NEC and CSA.
 (3) Power derating is applied for ambient temperatures above +85°C / +185°F for U650 and for ambient temperatures above +75°C / 167°F for U650B. Refer to the Power Optimizers Temperature Derating technical note for details.


PV System Design Using a SolarEdge Inverter ⁽⁴⁾	SolarEdge Home Wave / Hub Single Phase	Three Phase for 208V Grid	Three Phase for 277/480V Grid	Units
Minimum String Length	U650: 8 U650B: 6	10	18	
Maximum String Length (Power Optimizers)	25		50 ⁽⁵⁾	
Maximum Usable Power Delivered per String	5700	6000	12,750	W
Maximum Allowed Connected Power per String ⁽⁶⁾⁽⁷⁾	Inverters with Rated AC Power ≤ 5700W	Per the inverter's maximum input DC power ⁽⁸⁾	One string: 7200 Two strings or more: 7800	W
	Inverters with Rated AC Power of 6000W	5700		
	Inverters with Rated AC Power ≥ 7600W	6800, only when connected to at least two strings		
Parallel Strings of Different Lengths or Orientations	Yes			

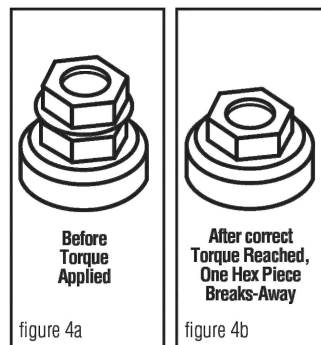
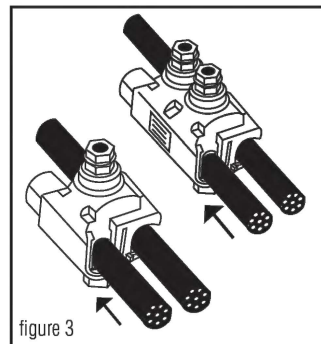
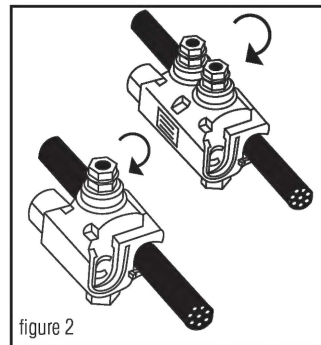
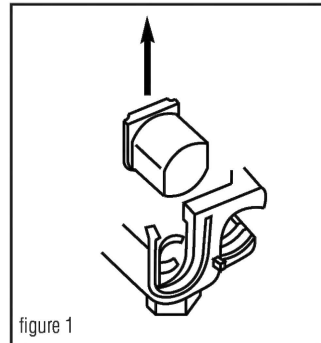
(4) It is not allowed to mix U650 or U650B Power Optimizers with P-series Power Optimizers in new installations in the same string.
 (5) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement.
 (6) For the 208V grid, the maximum is permitted only when the difference in connected power between strings is 1,000W or less.
 (7) For the 240V or 277/480V grids, the maximum is permitted only when the difference in connected power between strings 2,000W or less.
 (8) Refer to the Single String Design Guidelines application note for more details.

INSULATION-PIERCING TAP CONNECTORS CONECTORES DE DERIVACIÓN QUE PERFORAN EL AISLAMIENTO

Installation Instructions:

 **Warning**
Improperly installed electrical wiring can be dangerous and cause electrical fires. The connector chosen must be sized to the wires being used. Consult local building code before doing any electrical work. For assistance, refer to an instructional book or consult a qualified electrician.

 **Warning**
Contact with electricity can cause serious injury or death. Use on insulated cable only. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consult factory for other insulation types. If the installation is to be made on an energized run, the tap conductor must be under no load and must not be grounded. Use electrically insulated gloves. De-energize the run cable if there are any questions of these conditions being met.



- Determine the direction for the tap conductor to exit and discard one end cap. **See figure 1.**
- Position the main (or feeder) side of the connector around the run cable and tighten the bolt finger tight. **See figure 2.** If required, loosen the bolt slightly to allow the connector to open completely. **DISASSEMBLY NOT RECOMMENDED.** The plastic "Turbo" spacer holds the connector open which eases installation and ensures proper connections.
- Cut the end of the tap cable squarely. **DO NOT STRIP CABLE INSULATION.**
- Insert the tap cable into the tap side of the connector until it is seated in the remaining end cap. **See figure 3.**
- Continue tightening the torque regulating bolt with a standard box or socket wrench until the torque regulating piece breaks away. If the connector has two (2) assembly bolts, alternately tighten until the hexagonal torque devices break away. **See figures 4a & 4b.** Note that the plastic "turbo" spacer on the side will also break. To make the installation even easier and to relieve torque from the cables, a second wrench can be used on the hexagonal piece on the bottom of the connector.

DO NOT use gripping type pliers, pipe, open ended or adjustable wrenches as these may damage the hexagonal torque regulating device. A torque wrench is not required.

MAKE SURE ONLY THE TOP HEXAGONAL TORQUE DEVICE OF THE BOLT HEAD IS USED FOR ASSEMBLY. THE SECOND HEX PIECE [CLOSER TO THE BODY OF THE CONNECTOR] IS USED FOR DISASSEMBLY.

Note: The torque regulating bolt ensures the correct torque is applied to the conductors without using a torque wrench. Important information such as run and tap ranges, voltage ratings and material/temperature ratings is marked on the connector.

Instalación Instrucciones:

 **Advertencia**
Los cables eléctricos mal instalados pueden ser peligrosos y provocar incendios. El conector escogido debe ser de un tamaño adecuado para los cables que se utilicen. Consulte los códigos de construcción locales antes de efectuar trabajos eléctricos. Si necesita ayuda, consulte un libro de instrucciones o consulte con un electricista capacitado.

 **Advertencia**
Use sólo en cable aislado. [RHH, RHW(-2), THHN, THHW, THW, THWN, USE, XHHW(-2)]. Consulte con la fábrica para obtener información sobre otros tipos de aislamiento. Si se va a hacer la instalación sobre un cable con corriente el conductor derivado debe estar libre de carga y no debe estar aterado. Use guantes con aislamiento eléctrico. Quite la corriente al cable del cual se hace la derivación si no se pueden cumplir estas condiciones. El contacto con electricidad puede producir lesiones graves o mortales.

- Determine la dirección en la que el conductor derivado saldrá y deseche la tapa terminal sobrante. **Vea la ilustración 1.**
- Coloque el lado principal (o de alimentación) del conector alrededor del cual se hace la derivación y apriete firmemente el dedo del perno. **Vea la ilustración 2.** Si hace falta, afloje el perno ligeramente para permitir que el conector se abra completamente. **NO ES RECOMENDABLE DESARMAR EL CONECTOR.** El espaciador "Turbo" de plástico mantiene al conector abierto, lo cual facilita la instalación y asegura que las conexiones se hagan correctamente.
- Corte el extremo del cable de derivación perpendicularmente a su eje. **NO PELE EL AISLAMIENTO DEL CABLE.**
- Inserte el cable de derivación en el lado de derivación del conector hasta que tope contra la tapa terminal que queda. **Vea la ilustración 3.**
- Continúe apretando este perno que regula la torsión con una llave estándar o de cubo hasta que la pieza que regula la torsión se parta y se separe. Si el conector tiene dos (2) pernos de ensamblaje, apriételes alternativamente hasta que el dispositivo de regulación de torción se parta. **Vea la ilustración 4a y 4b.** Observe que el espaciador "turbo" de plástico en el costado también se fracturará. Para hacer esta instalación aún más fácil y para aliviar la torsión de los cables, se puede usar una segunda llave sobre la pieza hexagonal al fondo del conector.

NO USE alicates de presión, llaves de turbo, llaves comunes o ajustables ya que éstas pueden dañar el dispositivo hexagonal que regula la torsión. No se requiere una llave de torsión.

ASEGÚRESE QUE SE USE, PARA EL ENSAMBLADO, SÓLO EL DISPOSITIVO SUPERIOR DE REGULACIÓN DE TORSIÓN DE LA CABEZA DEL PERNO. LA SEGUNDA PIEZA HEXAGONAL (LA MÁS CERCANA AL CUERPO DEL CONECTOR) SE USA SÓLO PARA DESARMAR EL CONECTOR.

Nota: El perno regulador de torsión garantiza la aplicación de la torsión correcta a los conductores sin usar una llave de torsión. La información importante de longitud de cable pelado y de toma, las clasificaciones de materiales y temperatura está marcada en el conector.

B-TAP[®] INSULATION PIERCING TAP CONNECTORS TORQUE AND CURRENT RATINGS

(Solid and/or Stranded)

CATALOG#	MAIN	TAP	NOMINAL TORQUE	TAP CURRENT RATING (IN AMPS)*
BTC2/0-14	2/0-4	10-14*	80 IN. LBS.	40
BTC1/0-10	1/0-8	2-10**	80 IN. LBS.	130
BTC4/0-10	4/0-3	2-10***	125 IN. LBS.	130
BTC4/0-6	4/0-2	1/0-6	160 IN. LBS.	170
BTC4/0-2	4/0-2	4/0-2	160 IN. LBS.	260
BTC250-6	250-4	4/0-6	160 IN. LBS.	260
BTC250-4	250-1	3/0-4	160 IN. LBS.	225
BTC250-2	250-1/0	4/0-2	160 IN. LBS.	260
BTC350-1/0	350-1/0	350-1/0	330 IN. LBS.	350
BTC500-4	500-2/0	4/0-4	330 IN. LBS.	260
BTC500-1/0	500-4/0	350-1/0	330 IN. LBS.	350
BTC500-14	750-3/0	10-14****	80 IN. LBS.	40
BTC750-250	750-250	500-250	330 IN. LBS.	430

+10-14 Cu SOLID/STRANDED; 10-12 Al SOLID/STRANDED
 **2-10 Cu SOLID/STRANDED; 2-10 Al STRANDED
 ***2-10 Cu SOLID/STRANDED; 2-8 Al STRANDED
 ****10-14 Cu SOLID/STRANDED; 10-12 Al STRANDED

Full line is 600V dual-rated, 194°F(90°C)

* Based on NEC Table 310-16 1996 (Not more than 3 insulated conductors in a raceway at ambient temperature of 30° C) for the largest tap wire size.

 **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov
 **ADVERTENCIA:** Cáncer y Daño Reproductivo - www.P65Warnings.ca.gov

One year limited warranty. See idealind.com for more information.

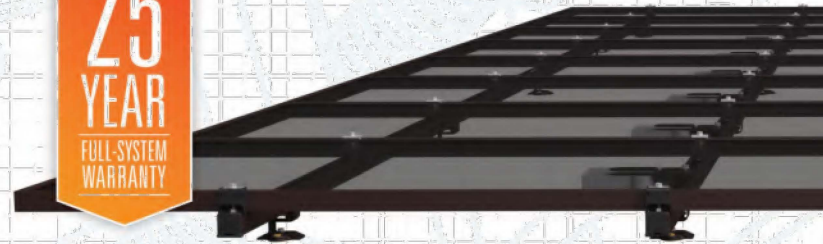
Garantía limitada de un año. Visite www.idealind.com para obtener detalles de la garantía.

NXT UMount



DESIGN & INTEGRATION

- Seamless, integrated wire management system elevates the install via the new open channel rail.
- State-of-the-art internal splice is interference free and offers true structural integrity that can even be installed in a cantilever!



VERSATILITY & AESTHETICS

- Unparalleled versatility supporting a vast array of roof attachments. Whether it's flashing or no flashing, the NXT UMount™ system has got you covered!
- Refined finishing touches are visually sleek and functionally superior.

EFFICIENCY & EASE OF INSTALLATION

- Universal module clamps and combo lug / MLPE mounts result in fewer SKUs and maximum component value.
- Open-slot STRONGHOLD attachments deliver quick, reliable, waterproof installations via Flashloc or pre-applied butyl sealants.
- With our click-in rail & clamps, you'll spend significantly less time on the roof, making installations quicker and hassle-free.



WHY NXT UMount?

Introducing NXT UMount™, a revolutionary product by Unirac that stands as the ultimate testament to over two decades of engineering experience. Its thoughtful design, backed by rigorous engineering, world-class support, and a reliable supply chain, encapsulates the best of DESIGN, SIMPLICITY, and VALUE. This innovative solar racking solution brings unparalleled versatility to solar installations, effectively representing the NXT level of solar mounting systems.

FOR QUESTIONS OR CUSTOMER SERVICE CONTACT:
505-242-6411 | SALES@UNIRAC.COM | WWW.UNIRAC.COM
PUB2024JUL17-V1

CONFORMS TO
UL2703 ISO 9001:2015
14001:2015
CERTIFIED

FLASHKIT PRO



FLASHKIT PRO is the complete attachment solution for composition shingle roofs. Featuring Unirac's patented SHED & SEAL technology, a weather proof system which provides the ultimate protection against roof leaks. Kitted in 10 packs for maximum convenience, flashings and hardware are available in Mill or Dark finishes. With FLASHKIT pro, you have everything you need for a quick, professional installation.



TRUSTED WATER SEAL FLASHINGS
FEATURING SHED & SEAL TECHNOLOGY



YOUR COMPLETE SOLUTION
Flashings, lags, continuous slot L-Feet and hardware



CONVENIENT 10 PACKS
Packaged for speed and ease of handling

THE COMPLETE ROOF ATTACHMENT SOLUTION

FOR QUESTIONS OR CUSTOMER SERVICE VISIT UNIRAC.COM OR CALL (505) 248-2702























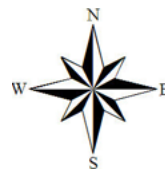


35 Riverview Street GIS Map

12/30/2025 9:00:03 AM

Scale: 1"=75'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

102850006
CENTRACCHIO ROBERT
38 RIVERVIEW ST
SPRINGFIELD, MA 01108

102850015
CROSSE FRANCES
35 RIVERVIEW ST
SPRINGFIELD, MA 01108

026800012
DSZ MANAGEMENT LLC
144 OLD FARM RD
EAST LONGMEADOW, MA

094150008
FLAHIVE JOHN C & NANCY C
30 OXFORD ST
SPRINGFIELD, MA 01108

102850016
LAMB CRYSTAL D
27 RIVERVIEW ST
SPRINGFIELD, MA 01108

102850007
LUCIA ANDREW A
42 RIVERVIEW ST
SPRINGFIELD, MA 01108

094150012
MARTIN PAUL M &
46 OXFORD ST
SPRINGFIELD, MA 01108

094150010
SEARS NICHOLAS PAUL &
38 OXFORD ST
SPRINGFIELD, MA 01108

026800010
ST PHARD ABIGAIL M &
54 CHASE AVE
SPRINGFIELD, MA 01108

102850014
TORKINGTON ROBERT G
41 RIVERVIEW ST
SPRINGFIELD, MA 01108



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 111 Florida St Springfield MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*



LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: <i>McKnight</i>	DECISION:
DATE RECEIVED: <i>December 16, 2025</i>	DECISION DATE:
HEARING DATE: <i>January 15, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>December 30, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>December 30, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Topley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 111 Florida St Springfield MA 01109

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 111 Florida St Springfield MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Derrick Hill		
OWNER ADDRESS: <input type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: (413) 799-1768	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS: derrickhill1980@gmail.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE: - 05220-0465	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Strip and re-roof multi planes. 19sq slate and shingle removal and 57 plywood		PROPOSED MODIFICATIONS <i>(Please check all that apply)</i> <ul style="list-style-type: none"> <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input checked="" type="checkbox"/> Roofing (see Page 6) <input type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

PROPERTY OWNER'S SIGNATURE

DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):		
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):		
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
ADDITIONAL INFORMATION:		

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

<input type="checkbox"/>	YES (PLEASE PROVIDE MORE INFO ABOVE)
<input type="checkbox"/>	No

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

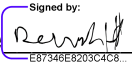
ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	
NUMBER OF SOLAR POWERED PANELS:	
SOLAR MANUFACTURER:	
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	
LOCATION OF CONDUIT (e.g. side of building, inside the house):	
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	

Affirmation of Permission

I Derrick Hill, the landowner of the property located at 111 Florida St Springfield MA 01109, hereby affirm that I grant permission to Innovative Roofing NH LLC to speak and represent matters that are related to my property at the Historical Department meeting scheduled for 1/15/26.

- This authorization is given freely and is valid solely for the purpose of discussion and communication at said meeting.

Landowner Name Derrick Hill

Landowner Signature  E87346E820304C8

Date Signed 1/7/2026

PRODUCT SPECIFICATION – MASTER

Owens Corning Roofing & Asphalt herein referred to as “Owens Corning”

Section 07311 Fiber glass-based Asphalt Shingles.

PART 1 – GENERAL

1.1 RELATED SECTIONS

- A. Rough Carpentry Section 06100.
- B. Roof and Deck Insulation Section 07240 for insulation placed over roof decking.
Notes to Specifier:
 - 1. Underlayment and shingles installed directly over roof insulation or similar type decks is not approved.
 - 2. Roof deck must be dry, minimum 25/32” thick, maximum 6” wide boards, or APA rated sheathing (exposure 1): minimum 3/8” plywood, minimum 7/16” oriented strand board or waferboard. Consult your Owens Corning representative for other approved constructions.
 - 3. Ventilation under roof deck must meet FHA Minimum Property Standards.
- C. Flashing and Sheet Metal: Section 07600. For snow guards, metal flashing and drip edges, including step-type flashing installed with shingles.
- D. Roofing Essentials™ Accessories Section 07800.
 - 1. RAFT-R-MATE® UL® Listed
 - 2. Soffits or Intake Ventilation
 - 3. VentSure® Ventilation Products
 - 4. Hip & Ridge Shingles
 - 5. WeatherLock® Ice and Water Barrier Products
 - 6. Fiberglas™ Reinforced Felt Underlayment
 - 7. Deck Defense™ High Performance Roof Underlayment

1.2 REFERENCES

Standards and Building Codes:

- A. ASTM D 224 -Standard Specification for Smooth-Surfaced Asphalt Roll Roofing.
- B. ASTM D 226 – Standard Specification for Asphalt-Saturated Organic Felt used in Roofing and Waterproofing.
- C. ASTM D 1970 – Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.
- D. ASTM D 3018 – Standard Specification for Class A Shingles Surfaced with Mineral Granules.
- E. ASTM D 3161 – Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
- F. ASTM D 7158 – Standard Test Method for Wind Resistance of Sealed Asphalt Shingles (Uplift Force/Uplift Resistance Method)
- G. UL 2390 – Test Method for Wind Resistant Asphalt Shingles with Sealed Tabs
- H. ASTM D 3462 – Standard Specification for Asphalt Shingles Made from Glass felt and Surfaced with Mineral Granules.

1.2 REFERENCES (continued)

Standards and Building Codes:

- I.** ASTM D 4586 – Standard Specification for Asphalt Roof Cement, Asbestos –Free.
- J.** ASTM D 4869 – Standard Specification for Asphalt –Saturated Organic Felt Shingle Underlayment Used in roofing.
- K.** ASTM E 108 – Standard Test Methods for Fire Tests of Roof Coverings.
- L.** ASTM C 1549 – Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature using a Portable Solar Reflector.
- M.** ASTM C 1371 – Standard Test Method for Determination of Emittance of Materials Near Room Temperature using Portable Emissionmeters.
- N.** ASTM D 6757 – Standard Specification for Underlayment Felt Containing Inorganic Fibers.
- O.** CSA A123.5 – Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules.
- P.** UL 2218 - Impact Resistance of Prepared Roof Covering Materials.
- Q.** UL 790 – Standard Test Methods for Fire Test of Roof Coverings.
- R.** ASTM D3018 – Standard Specification for Class A Asphalt Shingles Surfaced with Mineral Granules
- S.** ASTM E 903 – Standard Test Method for Absorptance Reflectance, and Transmission of Materials Using Integrating Spheres.

1.3 SUBMITTALS

Submit copies of Owens Corning product data sheets, detail drawings and samples for each type of roofing product.

1.4 QUALITY ASSURANCE

- A.** Manufacturer Qualifications: Provide all primary roofing products, including shingles, underlayment, leak barrier, and ventilation, by a single manufacturer.
- B.** Installer Qualifications:
 - 1. Installer must follow Owens Corning published installation instructions
 - 2. Installer must be an Preferred Contractor as defined and certified by Owens Corning
 - 3. Installer must be a Platinum Preferred Contractor as defined and certified by Owens Corning

1.5 REGULATORY REQUIREMENTS

- A.** Provide a roofing system achieving an Underwriters Laboratories (UL) Class A fire classification.
- B.** Provide a roofing system achieving an ENERGY STAR® rating. Install all roofing products in accordance with all federal, state and local building codes.
- C.** Provide a roofing system achieving a COOL ROOF RATING COUNCIL (CRRC) Install all roofing products in accordance with all federal, state and local building codes.
- D.** All work shall be performed in a manner consistent with current OSHA guidelines.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store all products in manufacturer's unopened, labeled packaging until they are ready for installation.
- B. Store products in a covered, ventilated area, at temperature not more than 110 degrees F (43 degrees C); do not store near steam pipes, radiators, or in direct sunlight.
- C. Store bundles on a flat surface. Maximum stacking height shall not exceed Owens Corning's recommendations. Store all rolls on end.
- D. Store and dispose of solvent-based materials in accordance with all federal, state and local regulations.

1.7 WEATHER CONDITIONS

Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with Owens Corning's recommendations.

1.8 WARRANTY

- 1. Provide to the owner prorated standard warranty coverage for materials in the event of a material defect for limited lifetime, including 10 years Tru Protection[®] coverage.
- B. 1.** Provide to the owner extended warranty coverage labor and materials in the event of a material defect for Limited Lifetime.
 - 1. System Advantage[™] Roofing Limited Warranty includes up to 50 years of Tru Protection[®] (non-prorated) coverage on installed Owens Corning Roofing System products and labor. The length of the Tru Protection[®] protection is based upon the shingle product installed on the field of the roof. Coverage can only be provided by an Owens Corning designated Preferred or Platinum Preferred Contractor.
 - 2. System Advantage[™] Preferred Roofing Limited Warranty includes up to 50 years of Tru Protection[®] (non-prorated) coverage on installed Owens Corning Roofing System products and labor. The length of the Tru Protection[®] protection is based upon the shingle product installed on the field of the roof. This warranty will also cover workmanship defects by the installer. Coverage can only be provided by an Owens Corning designated Preferred or Platinum Preferred Contractor.
 - 3. System Advantage[™] Platinum Roofing Limited Warranty includes up to 50 years of Tru Protection[®] (non-prorated) coverage on installed Owens Corning Roofing System products and labor. The length of the Tru Protection[®] protection is based upon the shingle product installed on the field of the roof. This warranty will also cover workmanship defects by the installer. Coverage can only be provided by an Owens Corning designated Platinum Preferred Contractor.

PART 2: PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer:

Owens Corning Roofing & Asphalt LLC

**One Owens Corning Pkwy
Toledo, OH 43659**

B. Requests for substitutions will be considered in accordance with provisions of Section 01600

2.2 QUALITY ASSURANCE

- A. Shingles shall carry Underwriters Laboratories Labels:
 - 1. UL 790, Class A Fire Resistance
 - 2. ASTM D 3161 Wind Resistance
 - 3. ASTM D 3462 Asphalt Shingle Specification
 - 4. CSA A123.5 Canadian Fiberglass Shingle Standard
 - 5. ASTM D 7158 (UL2390/ASTMD6381) Wind Resistance
 - 6. UL 2218 Impact Resistance
- B. Install shingles to meet requirements of published Owens Corning instructions.

2.3 ASPHALT SHINGLES

Owens Corning fiber glass-based asphalt shingles complying with ASTM specifications E 108 Class A or UL 790 Class A, D 3462, D 3161 Class “F”, D3161 Class “A” D 7158 (UL2390/D6381) Class H, D 3018 Type 1, D 3018, CSA A123.5, UL 2218, Cool Roof Rating Council (CRRC), Energy Star, Florida Building Code (FBC), Miami-Dade County Approved and International Code Council (ICC) Evaluation Report.

Duration® Premium Shingle Product Specification

Nominal Size:	13 1/4" x 39 3/8"
Exposure:	5 5/8"
Shingles per Square:	64
Bundles per Square:	4 bundles of 16 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer’s full range.

Duration® Premium Cool Shingle Product Specification

Nominal Size:	13 1/4" x 39 3/8"
Exposure:	5 5/8"
Shingles per Square:	64
Bundles per Square:	4 bundles of 16 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer’s full range.

Duration® Shingle Product Specification

Nominal Size:	13 1/4" x 39 3/8"
---------------	-------------------

Exposure:	5 ⁵ / ₈ "
Shingles per Square:	64
Bundles per Square:	3 bundles of 20 or 22 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer's full range.

TruDefinition® Duration® Shingle Product Specification

Nominal Size:	13 ¹ / ₄ " x 39 ³ / ₈ "
Exposure:	5 ⁵ / ₈ "
Shingles per Square:	64
Bundles per Square:	3 bundles of 20 or 22 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer's full range.

TruDefinition® Duration STORM® Shingle Product Specification

Nominal Size:	13 ¹ / ₄ " x 39 ³ / ₈ "
Exposure:	5 ⁵ / ₈ "
Shingles per Square:	64
Bundles per Square:	3 bundles of 20 or 22 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer's full range.

TruDefinition® Duration MAX™ Shingle Product Specification

Nominal Size:	13 ¹ / ₄ " x 39 ³ / ₈ "
Exposure:	5 ⁵ / ₈ "
Shingles per Square:	64
Bundles per Square:	4 bundles of 16 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer's full range.

Oakridge® Shingle Product Specification

Nominal Size:	13 ¹ / ₄ " x 39 ³ / ₈ "
Exposure:	5 ⁵ / ₈ "
Shingles per Square:	64
Bundles per Square:	3 bundles of 20 or 22 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer's full range.

Berkshire® Shingle Product Specification

Nominal Size:	18 ³ / ₄ " x 38"
Exposure:	8 ³ / ₈ "
Shingles per Square:	45
Bundles per Square:	5 bundles of 9 shingles
Coverage per Square:	99.5 sq. ft.

Color: As selected from manufacturer's full range.

WeatherGuard® HP Shingle Product Specification

Nominal Size:	13 ¹ / ₄ " x 39 ³ / ₈ "
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Exposure:	5 ⁵ / ₈ "
Shingles per Square:	64
Bundles per Square:	4 bundles of 16 shingles
Coverage per Square:	98.4 sq. ft.

Color: As selected from manufacturer's full range.

Woodmoor® Shingle Product Specification

Nominal Size:	14 1/4" x 40"
Exposure:	4"
Shingles per Square:	90
Bundles per Square:	6 bundles of 15 shingles
Coverage per Square:	100.0 sq. ft.

Color: As selected from manufacturer's full range.

Woodcrest® Shingle Product Specification

Nominal Size:	14 1/4" x 40"
Exposure:	4"
Shingles per Square:	90
Bundles per Square:	6 bundles of 15 shingles
Coverage per Square:	100.0 sq. ft.

Color: As selected from manufacturer's full range.

Supreme® (Imperial) Shingle Product Specification

Nominal Size:	12" x 36"
Exposure:	5"
Shingles per Square:	80
Bundles per Square:	3 bundles of 26, 27, 27 shingles
Coverage per Square:	100.0 sq. ft.

Color: As selected from manufacturer's full range.

Supreme® (Metric) Shingle Product Specification

Nominal Size:	13 1/4" x 39 3/8"
Exposure:	5 ⁵ / ₈ "
Shingles per Square:	65
Bundles per Square:	3 bundles of 21, 22, 22 shingles
Coverage per Square:	100.0 sq. ft.

Color: As selected from manufacturer's full range.

Mineral Surface Roll Product Specification

Nominal Size:	36" x 36'3"
Exposure:	34"
Rolls per Square:	1
Coverage per Square:	100.0 sq. ft.

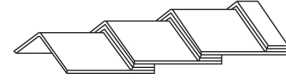
2.4 HIP AND RIDGE SHINGLES

THIS AREA WILL VARY BASED UPON SERVICE AREA OFFERING.

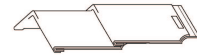
- A. Owens Corning Hip and Ridge shingles color formulated to complement field of roof.

RIZERidge® Hip & Ridge Shingles with Sealant
Foldable design provides multi-layered dimension along hips & ridges.
Nominal size 12" x 36"; Piece size 12" x 12" with 6" exposure

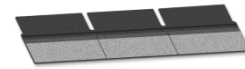
High Ridge Hip & Ridge Shingles with Sealant
Layered construction adds performance and dimension to the hip and ridge.
Nominal size 12" x 12" with 8" exposure



DecoRidge® Hip & Ridge Shingles with Sealant
Durable, heavyweight laminate construction with SBS-modified asphalt provides maximum dimension and style to the hip and ridge. **Nominal size 11½" x 8" and 11 ½" x 10" with 8" exposure**



ProEdge™ Hip & Ridge Shingles
Perforated 3-tab shingles designed for fast and easy installation.
Nominal size 12" x 36"; Piece size 12" x 12" with 6" exposure



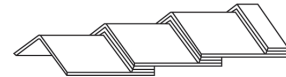
Perforated Hip & Ridge Shingles with Sealant (Standard)
Perforated 3-tab shingles shingles designed for fast and easy installation.
Nominal size 12" x 36"; Piece size 12" x 12" with 5" exposure



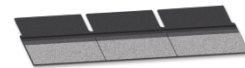
Perforated Hip & Ridge Shingles with Sealant (Metric)
Perforated 4-tab shingles designed for fast and easy installation.
Nominal size 13 ¼" x 39 3/8"; Piece size 13 ¼" x 9 27/32" with 5 5/8" exposure



Berkshire® Hip & Ridge Shingles
Layered construction adds performance and dimension to the hip and ridge.
Nominal size 12" x 12" with 8" exposure



ProEdge STORM™ Hip & Ridge Impact Resistant Shingles
Perforated design for easy installation offering Class IV protection.
Nominal size 12" x 36"; Piece size 12" x 12" with 6" exposure



WeatherGuard® Hip & Ridge Impact Resistant Shingles
Perforated design for easy installation offering Class IV protection.
Nominal size 12" x 36"; Piece size 12" x 12" with 5" exposure



2.5 STARTER SHINGLES

- A. **Starter Shingle Roll**, by Owens Corning- Self-adhering, starter course. Each strip measures 7.2" tall by 33.4' wide.
- B. **Starter Strip Shingle**, by Owens Corning-Nail applied starter course. When separated, each starter shingle is 6 5/8" X 39 3/8"

- C. **Starter Strip PLUS**, by Owens Corning-Nail applied starter course. When separated each starter shingle is 7 3/4"X 39 3/8"

2.6 WEATHERLOCK SELF-SEALING ICE & WATER BARRIER

- A. **WeatherLock® Mat** by Owens Corning - ASTM D1970 approved, UL Listed, Mat-faced skid resistant surface, self-adhering, self sealing, bituminous ice and water barrier. Each roll is 36" wide.
- B. **WeatherLock® G**, by Owens Corning- ASTM D1970 approved, UL Listed, granule skid resistant surface, self-adhering, self sealing, bituminous ice and water barrier. Each roll is 36" wide
- C. **WeatherLock® Cold Climate**, by Owens Corning - ASTM D1970 approved, UL Listed, granule skid resistant surface, self-adhering, self sealing, bituminous ice and water barrier. Designed for low temperature adhesion. Each roll is 36" wide
- D. **WeatherLock® Flex**, by Owens Corning - ASTM D1970 approved, UL Listed, Cross laminated poly surface with skid resistant traction surface, self-adhering, self sealing, bituminous ice and water barrier. Each roll is 36" wide
- E. **WeatherLock® Specialty Tile and Metal**, by Owens Corning - ASTM D1970 approved, UL Listed, Polyester surface with skid resistant traction surface, self-adhering, self sealing, bituminous ice and water barrier. Thermally stable in high temperatures up to 260°. Designed for all Tile, Metal, and shingle applications including mechanically fastened tile, foam adhesive set tile and all metals roof systems. Each roll is 36" wide.

2.7 SHINGLE UNDERLAYMENT

- A. **Fiberglas™ Reinforced Felt Underlayment**, by Owens Corning—wrinkle resistant, Water resistant, breather type cellulose/glass fiber composite roofing underlayment. Each roll is 36" wide by 144', covering 4 roof squares.
- B. **Deck Defense™ High Performance Roof Underlayment**, by Owens Corning – weather-shedding synthetic tri-layer polyolefin barrier. Material offered in 48" wide by 250' rolls, each covering 10 roof squares.

2.8 ATTIC VENTILATION

- A. Flexible ridge ventilator designed to allow the passage of air from attics, while prohibiting snow infiltration. Provides 12.5" NFVA per lineal foot. Owens Corning **VentSure® Rigid Roll**.
- B. Rigid plastic ridge ventilator designed to allow the passage of hot air from attics For use in conjunction with eave/ soffit intake ventilation products. Provides 20 sq in NFVA per lineal foot. Each package contains 40 lineal feet of vent. Owens Corning **VentSure® 4-foot Strip Heat and Moisture Ridge Vents 12 inch width** .

- C. Rigid plastic ridge ventilator designed to allow the passage of hot air from attics For use in conjunction with eave/ soffit intake ventilation products. Provides 18 sq in NFVA per lineal foot. Each package contains 40 lineal feet of vent. Owens Corning **VentSure® 4-foot Strip Heat and Moisture Ridge Vents 8 & 10 inch width** .
- D. Rooftop mounted, slant-back designed, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides 51 sq in NFVA. Owens Corning **VentSure® Metal Slant Back Roof Vent**.
- E. Rooftop mounted, slant-back designed, high-impact resin exhaust ventilator designed to evacuate hot air from attics. Each vent provides 55 sq in NFVA. Owens Corning **VentSure® Plastic Slant Back Roof Vent**.
- F. Rooftop mounted, square-top designed, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides 51 sq in NFVA. . Owens Corning **VentSure® Square Top Roof Vent** .
- G. Rooftop mounted, low-profile, slant back metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides 72 sq in NFVA. Owens Corning **VentSure® Low Profile Slant Back Roof Vent with Exterior Louver**.
- H. Rooftop mounted, dome,, metal exhaust ventilator designed to evacuate hot air from attics, while prohibiting snow infiltration. Each vent provides 144 sq in NFVA. Owens Corning **VentSure® Metal Dome with Screen**.
- I. Rooftop mounted, Turbine designed, metal exhaust ventilator designed to evacuate hot air from attics. Owens Corning **VentSure® Internally Braced Premium Turbine Vent**.
- J. Rooftop mounted, Turbine designed, metal exhaust ventilator designed to evacuate hot air from attics. Owens Corning **VentSure® Externally Braced Premium Turbine Vent** .

ATTIC SIZE IN SQ. FT. Tamaño de desvan en pies cuadrado	TURBINES REQUIRED Turbinas requeridas		REQUIRED SQ. IN. INTAKE VENTS Abertura recomendada en pulgadas cuadrdo
	12"	14"	
1000	2	2	240
1500	3	2	360
2000	4	3	480
2500	5	4	600
3000	6	5	720
4000	8	6	960

- K. Rooftop mounted, 1400 CFM, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides ideal ventilation for 2000 square foot attic. . Owens Corning **VentSure® 1400 CFM Powered Roof Vent**.
- L. Rooftop mounted, 1080 CFM, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides ideal ventilation for 1600 square foot attic. . Owens Corning **VentSure® 1080 CFM Powered Roof Vent**.
- M. Rooftop mounted, 1000 CFM solar powered, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides ideal ventilation for 1550 square foot attic. . Owens Corning **VentSure® 1000 CFM Solar Powered Roof Vent**.

- N. Rectangular Aluminum intake vents designed to introduce fresh, dry air into the attic. Available in three dimensions which are designed to work collectively with exhaust vents to provide ideal ventilation to roof structures. VentSure® Aluminum Undereave Intake Vents by Owens Corning.

Dimension	Net Free Vent Area
4" X 16"	16.34 Square Inches
6" X 16"	27.23 Square Inches
8" X 16"	38.12 Square Inches

- O. 8-foot continuous Aluminum soffit vent. Available in 2-inch widths, which are designed to work collectively with exhaust vents to provide ideal ventilation to roof structures. VentSure® 8-foot Continuous Soffit Vent by Owens Corning.

- P. Round miniature aluminum soffit vents designed to introduce fresh, dry air into the attic. Available in three sizes which are designed to work collectively with exhaust vents to provide ideal ventilation to roof structures. VentSure® Round Mini Soffit Vents by Owens Corning

Size	Net Free Vent Area
2"	.637 Square Inches
3"	1.36 Square Inches
4"	2.43 Square Inches

2.9 FASTENERS

- A. **Fastener requirement:** Use galvanized steel, stainless steel, or aluminum nails minimum 12 gauge shank with 3/8" diameter head. Owens Corning™ recommends that fasteners comply with ASTM F 1667. Check local building codes.
- B. All fasteners must be driven flush with the shingle surface and penetrate at least 3/4" into the wood deck. Where the deck is less than 3/4" thick, the fastener should be long enough to penetrate fully and extend at least 1/8" through APA rated roof sheathing.
- C. Owens Corning recommends the use of nails as the preferred method of attaching shingles to wood decking or other nailable substrates. If staples are used they must be, corrosion resistant, zinc-coated, 16-gauge minimum with minimum 15/16" crown width. Staples must be long enough to penetrate at least 3/4" into solid decking, or extend a minimum of 1/8" through the APA-rated sheathing.

2.10 METAL FLASHING

- A. .24 gauge hot-dip galvanized steel sheet, complying with ASTM A 653/A 653M, G90/Z275.
- B. 16-oz/sq ft (0.56 mm) copper sheet, complying with ASTM B 370.
- C. 0.032-inch (0.8 mm) aluminum sheet, complying with ASTM B 209.

PART 3: EXECUTION

3.1 EXAMINATION

- A. Prior to starting work, examine all roof decks on which work is to be applied for defects in materials and workmanship which may be detrimental to the proper installation or long-term performance of the shingles.
- B. Do not begin installation until the roof deck has been properly prepared.

3.2 PREPARATION

- A. Remove all existing roofing down to the roof deck. Recommended roof decks are 6" maximum width, 25/32" minimum thickness wood sheathing, 3/8" minimum thickness Exposure 1 grade plywood sheathing or 7/16" minimum thickness non-veneer structural panels (oriented strand board panels or waferboard panels). Deck spacing cannot exceed 1/4" between roof boards or between plywood or OSB sheathing. Use plywood decking and non-veneer structural panels recommended by the American Plywood Association, and local building codes.
- B. Verify that the deck is dry, sound, clean and smooth. It shall be free of any depressions, waves, and projections. Cover with sheet metal, all holes over 1 inch (25 mm) in diameter, cracks over 1/2 inch (12 mm) in width, loose knots and excessively resinous areas.
- C. Replace damaged deck with new materials.
- D. Clean deck surfaces thoroughly prior to installation of eaves protection membrane and underlayment.
- E. Install crickets on the upslope side of all chimneys in the north, any chimney wider than 24", and on all roofs steeper than 6/12.
- F. Verify that the deck is structurally sound and free of deteriorated decking. All deteriorated decking shall be removed and replaced with new materials.
- G. Verify that the existing shingles are dry, sound, clean and smooth. All curled, buckled or loose tabs shall be nailed down or removed.

3.3 INSTALLATION

- A. Installation shall be in accordance with the instructions published by Owens Corning and your local building codes.
- B. Product styles and colors change over time, for current selection of products and colors in your area please contact your Owens Corning representative.
- C. Owens Corning strives to accurately reproduce the images of shingles in this literature. However, due to manufacturing variances, the limitation of graphic reproduction and the variation in natural exterior lighting, actual shingle colors, and granule blends may vary from the images you see reproduced in this literature. For this reason, it is important to see an actual roofing sample or actual products installed on a home before making final color selection.

- D. *See actual warranty for complete details.

3.4 UNDERLAYMENT APPLICATION

General

- A. Install using methods recommended by OWENS CORNING in accordance with local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.

Eaves In areas where there has been a history of ice forming along the eaves causing a backup, an ice barrier must extend 24 inches inside the exterior wall line of the building

- A. In the north, and on all roofs between 2/12 and 4/12 (low slopes) install WeatherLock® eaves protection membrane up the slope from eaves edge a full 36 inches or to at least 24 inches (610 mm) beyond the interior “warm wall”. Lap ends 6 inches (150 mm).

Valleys

- A. Install **WeatherLock®** at least 36 inches wide and centered on the valley. Lap ends 6 inches (150 mm) and seal.
- B. Where valleys are indicated to be "open valleys", install metal flashing over eaves protection membrane before roof deck underlayment is installed; DO NOT nail through the flashing. Secure the flashing by nailing at 18 inches (457 mm) on center just beyond edge of flashing so that nail heads hold down the edge.

Roof Deck

- A. On roofs sloped at more than 4 in 12, lap horizontal edges at least 2 inches (5 mm) and at least 2 inches (5 mm) over eaves protection membrane. . Lap ends at least 4 inches (10 mm). End laps in succeeding course should be located at least 6' from end laps in the preceding course.
- B. On roofs sloped between 2 in 12 to under 4 in 12, see application instruction printed on each shingle wrapper.
- C. Lap underlayment over valley protection at least 6 inches (150 mm).

Penetrations

- A. Vent pipes: Install a 24 inch (610 mm) square piece of eaves protection membrane lapping over roof deck underlayment; seal tightly to pipe.
- B. Vertical walls: Install eaves protection membrane extending at least 3-4 inches (76-102 mm) up the wall and 12 inches (305 mm) on to the roof surface. Lap the membrane over the roof deck underlayment.
- C. Chimneys: Install eaves protection membrane around entire chimney extending at least 6 inches (150 mm) up the wall and 12 inches (305 mm) on to the roof surface. Lap the membrane over the roof deck underlayment.

3.5 SUBMITTALS

- A. Manufacturer color sample showing full range of colors available for specified products.
- B. Product literature and recommended installation procedures.
- C. Owens Corning Limited Warranty *

3.6 DELIVERY, STORAGE AND HANLING

- A. Deliver materials to site in manufacturer’s unopened bundles with labels intact and legible.

- B. Handle and store materials on site to prevent damage. Store in a covered ventilated area at a maximum temperature of 110°F.
- C. Do not stack product more than 2 pallets high. If stacking 2 pallets high, use separator boards to protect the shingles below.
- D. Roof Top Loading: Lay shingle bundles flat. Do not bend over the ridge.

3.7 PROJECT CONDITIONS

- A. Proceed with installing shingles only when weather is appropriate for a quality installation.
- B. Do not install underlayment or shingles on wet surfaces.

3.8 WARRANTY

- A. **ADD MANUFACTURE STANDARD WARRANTY TO YOUR SPECIFICATION**

3.9 LIMITATION

Ventilation practices should be followed as outlined in section 2.8. Some exceptions may apply. Contact the manufacturer for details.

End of Section

RHINOROOF® GRANULATED

WATERPROOF | FLEXIBLE | WALKABLE



RHINOROOF® GRANULATED

The self-adhered layer in a roof deck protection system provides a waterproof barrier for vulnerable areas on a roof. Whether the building is faced with wind-driven rain or the potential for ice damming, having a waterproof barrier will help provide protection for a long-lasting roof.

RhinoRoof® Granulated self-adhered underlayment provides that essential waterproof barrier as a second line of defense against water mitigation. RhinoRoof® Granulated combined with a synthetic underlayment, such as RhinoRoof® U20 creates an underlayment system to protect the roof deck from eave to peak. RhinoRoof® Granulated is formulated with the latest in asphalt technology that brings significant performance values:

- **Excellent Adhesion** – Tested at 40° F and 75° F adhesion to the deck exceeds ASTM D1970 standards*
- **Flexible Installation** – Even at cold temperatures
- **Lap Adhesion** – Constructed with a taped selvage edge for 3 inches of edge lap protection
- **Walkable Surface** – Provides a slip-resistant surface with minimal loose granules for excellent traction and safe installation.
- **Easy to Install** – Split backer sheet for easy application and positioning on the roof deck
- **Extended UV Exposure** – Can be left exposed up to 30 days

RHINOROOF® GRANULATED

SPECIFICATION

LENGTH PER ROLL:	65' (19.8 M)
WIDTH PER ROLL:	36" (91 CM)
WEIGHT PER ROLL:	52 lbs (23.6 kg)
ROLL SIZE:	1.95 SQ (18 M ²)
ROLLS PER PALLET:	30
PALLET WEIGHT:	1,615 LBS (732 KG)

TECHNICAL DATA

TEST & STANDARD TYPICAL VALUE

Meets or exceeds the following test standards

Nail Sealability	ASTM D1970
Permeability	ASTM E96
Tensile Strength	ASTM D1970
Low Temp Flexibility	ASTM D1970
Tear Resistance	ASTM D1970
Adhesion to Plywood	ASTM D1970
Waterproofing Integrity	
after Low Temperature Flex	ASTM D1970
Waterproofing Integrity of Lap	ASTM D1970
Florida Product Approved	
Miami-Dade Product Approval	

* Product tested as manufactured. Test data is based on average taken over several production runs and should not be considered or interpreted as minimum or maximum values. Values are typical data as manufactured and not limiting specifications. All values = 10%.
See www.eavetopeak.com/rhinorooft for complete coverage and restrictions.

INSTALLATION INSTRUCTIONS

RhinoRoof® Granulated is designed as a secondary water barrier for use on steep slope roofs (2:12 or greater) under; Asphalt Shingles, Composite Shingles, Slate, and Wood Shakes and Shingles

STORAGE:

1. RhinoRoof® Granulated should be stored at room temperature, upright in the original cardboard packaging in a dry properly ventilated area. Keep product sheltered from the elements.
2. Only rolls destined for same-day use should be removed from their storage area.
3. For best results store in temperatures between 40°F (4.4°C) and 90°F (32°C). If room temperature storage is not available and product is at a temperature of 40°F (4.4°C) or less, move the product to a warm area prior to application. If product has been stored in temperatures above 90°F (32°C) it may become difficult to remove the release backing. If this situation should occur, move product into a shaded area until the product is cool. Once cooled, the release backing can be easily removed.

DECK PREPARATION:

1. Protrusions from the deck area must be removed and decks shall have no voids, damaged or unsupported areas. Deck surface should be free of debris and moisture.
2. RhinoRoof® Granulated must be applied directly to minimum 3/8 inch-thick plywood, 7/16 inch-thick OSB decking, or minimum 6 inch-wide deck boards (gaps no greater than 1/4 inch) on roofs with a slope of 2:12 or greater.
3. For re-roofing projects replace any water damaged sheathing and sweep roof deck thoroughly removing dust, dirt and loose nails. Do not install over old roof covering.

APPLICATION:

1. For best results RhinoRoof® Granulated must be installed over a clean, smooth and dry roof deck.
2. For cold weather applications 40°F (4.4°C) or below, a primer should be used and the laps blind nailed (see note 5 under application). The primer should be solvent or water based and meet ASTM D41 for asphalt based self-adhering membranes.
3. For steep slope applications (5:12 or greater), high wind areas, or when installing at temperatures greater than 100°F (38°C) it is recommended to blind nail the selvage edge area as per note 5 below under application.

4. RhinoRoof® Granulated is to be laid out horizontally (parallel) to the eaves with the printed side up, using 3 inch horizontal laps and 6 inch vertical laps with the lower edge of the RhinoRoof® Granulated flush with the outside of the drip edge. The lower edge of the underlayment is the edge that does not have a film selvage edge. End laps should be offset a minimum of 6 feet on adjacent courses.
5. On slopes greater than 5:12 after installation of each piece, overlap the 3 inch film selvage edge and, if necessary, secure with nails installed in the selvage edge spaced 12 inches on center. Blind nail with minimum 3/8 inch head roofing nails or sufficient length to penetrate the sheathing. Nails should be placed at 12 inches on center in the film selvage area. Consult local building codes for fastener requirements.
6. Always work from the low point to the high point of the roof. Apply the membrane in valleys before the membrane is applied to the eaves.
7. Cut the membrane into 15 foot to 20 foot lengths. Peel back 1-2 feet of release liner, align the membrane, and continue to peel the release liner from the membrane. Hand press or walk on, then follow with a 40 lb. or heavier weighted roller to smooth and secure the membrane. Hand rolling over the selvage edge and directly above the selvage edge using a minimum 4 inch-wide, 10 lb. roller is recommended. If a roller is not available or not considered safe, walk on all laps, and as much of the field area as possible to push the adhesive into the pours of the roof deck and overlap.
8. RhinoRoof® Granulated should be applied over the metal drip edge at the eaves unless otherwise specified by local codes. Along rakes, apply RhinoRoof® Granulated underlayment first, and install drip edge over the underlayment. Do not fold RhinoRoof® Granulated over the roof edge unless the edge is subsequently covered over by a drip edge or other flashing material.
9. In areas where ice damming can occur, install RhinoRoof® Granulated from the eave up the roof to a point not less than 24 inches inside the exterior wall, measured horizontally. Consult your local building code for specific requirements.
10. For valley applications, peel the release liner; center the sheet over the valley and hand press in place from the center of the valley outward. Note: It is very important RhinoRoof® Granulated stay in contact with the roof deck into and out of the valley area. RhinoRoof® Granulated should never be suspended or bridge a valley. It is recommended to follow up with a weighted roller or by walking on the surface. Give special attention to ALL perimeter edge areas.
11. If fasteners are removed leaving holes in the membrane or other penetrations are accidentally produced, they must also be patched.
12. Do not install fasteners through membrane over any unsupported areas of the structural deck, such as over joints between adjacent structural panels.
13. For geographies with high elevation, high wind or wind driven rain it is recommended to cover the entire roof deck with RhinoRoof® Granulated.

PRECAUTIONS:

1. RhinoRoof® Granulated is a moisture and vapor barrier and therefore must be installed above a properly ventilated space(s). Follow ALL building codes applicable to your geographical region and structure type.
2. Follow the recommendations of the roof covering manufacturer, Asphalt Roofing Manufacturer's Association (for asphalt shingles).
3. RhinoRoof® Granulated is not designed for indefinite outdoor exposure. Final roofing should be installed within 30 days of underlayment installation.
4. Depending on roof pitch and surface conditions, loading cleats (battens) may be required to support roofing materials placed on the roof. Remember to seal the fastener holes that secured the cleats/battens after they have been removed.
5. Protect completed roof areas to avoid damage during roof installation and material transportation by installing protective boardwalks to enable passage of people, equipment and products.
6. Be careful not to load too much material on the roof deck in one area. Disburse the weight over structural supports where possible

CAUTION - READ GOOD SAFETY PRACTICES BELOW

As with any roofing product, always follow safe roofing codes & practices (OSHA) and always use and wear fall protection devices when working on roofs. Release liners are slippery and should be removed from work area immediately after application. Use caution when walking or standing on RhinoRoof® Granulated as slip resistance may vary with surface conditions, weather, footwear and roof pitch. Failure to use proper safety gear and footwear can result in serious injury.



RhinoRoof® Granulated

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eavetopeak.com • email: answers@owenscorning.com
Toll Free: 800.567.9727

TruDefinition®
DURATION®

Shingles with Patented SureNail® Technology | Tejas con tecnología patentada SureNail®



Brownwood1



Chateau Green1



Colonial Slate1



Desert Rose1



Driftwood1



Estate Gray1



Harbor Blue1



Midnight Plum1/4



Onyx Black1



Peppercorn1

TruDefinition®
DURATION®

Shingles with Patented SureNail® Technology | Tejas con tecnología patentada SureNail®



Sand Castle1



Sierra Gray1



Slatestone Gray1



Teak1



Terra Cotta1



Williamsburg Gray1



COLOR DISCLAIMER

As color experts, we know getting the shingle color right is a big part of any roofing purchase. Due to printing color variations, in addition to viewing shingle literature, we suggest you request an actual shingle sample to see how it will appear on your home and with your home's exterior elements in various natural lighting conditions. Lastly, we recommend you verify your color choice by seeing it installed on an actual home; your roofing contractor or supplier can provide a sample and may be able to direct you to a local installation.

DESCARGO DE RESPONSABILIDAD SOBRE LOS COLORES

Entanto que especialistas en color, sabemos que obtener el color de teja perfecto es una parte importante en toda compra de techos. Debido a las variaciones en los colores impresos, además de mirar folletos de tejas, le sugerimos que solicite una muestra de la teja para ver como se verá en su hogar y con los elementos externos de la vivienda bajo distintas condiciones de luz natural. Finalmente, le recomendamos que para verificar su elección de colores, vea cómo lucen las tejas ya instaladas en una vivienda; su contratista de techos o su proveedor le pueden dar una muestra e incluso indicarle dónde ver un techo ya instalado.



PREFERRED PROTECTION LIMITED WARRANTY

Limitations on the transferability of this warranty are set forth herein.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

FOR CANADA ONLY: THE TERMS IN THIS WARRANTY, EXCEPT TO THE EXTENT LAWFULLY PERMITTED, DO NOT EXCLUDE, RESTRICT, OR MODIFY, AND ARE IN ADDITION TO ANY PROVINCIAL LAWS.

INTRODUCTION

Thank you for your recent purchase of Owens Corning® Roofing Shingles and Components manufactured by Owens Corning Roofing and Asphalt, LLC ("Owens Corning"). We believe we manufacture the highest quality and most attractive Roofing System ("Roofing System") available anywhere, and that is why we stand behind it with one of the best warranties in the industry. We have attempted to write this warranty in clear, plain English, so you will fully understand the warranty we are making to you. If anything in this warranty is not clear to you, please call us at 1-800-ROOFING (766-3464) or visit our web site at www.owenscorning.com/roofing.

WHO IS COVERED

To be entitled to the benefits of this Preferred Protection Limited Warranty: (1) your property must be located in the United States or Canada and (2) you must be either (a) the original consumer purchaser (the property Owner, not the installer or contractor) of a complete Owens Corning® Roofing System, as defined below, by Owens Corning Roofing and Asphalt, LLC, and be in accordance with the **"Eligibility Requirements for This Warranty"** below or (b) the first person to whom the original purchaser transfers this warranty along with ownership of the structure on which the shingles are installed (either person described in (a) or (b), "Owner"). In addition, the entire Roofing System must be installed by an Owens Corning Roofing Platinum Contractor or an Owens Corning Roofing Preferred Contractor according to Owens Corning application instructions. The Roofing System is comprised of Owens Corning® Shingles and accessory products. The Products ("Products") which comprise the Owens Corning® Roofing System are Owens Corning® Shingles, Owens Corning® VentSure® Ventilation, Owens Corning® Hip & Ridge Shingles, Owens Corning® Underlayment, listed below, Owens Corning® Starter Shingles, and Owens Corning® Self-Adhered Ice & Water Barrier products. For details regarding transferring this warranty, please see **"Transferability of This Warranty."**

ELIGIBILITY REQUIREMENTS FOR THIS WARRANTY

1. Your Roofing System must be installed by a Platinum or Preferred Contractor who shall install the roof as per the specifications outlined in 2-5, below, and this warranty must be registered by your Platinum or Preferred Contractor with Owens Corning within 60 days of the installation.
2. Your Roofing System must cover the entire structure and be installed over a ventilated roof deck. Incomplete roofs installed on a portion of a building do not qualify, nor do roofs installed over non-ventilated decks. Your Roofing System must be installed according to application requirements published by Owens Corning and in accordance with local building code requirements, which are in effect at the time of installation.
3. Your Roofing System must be installed over a clean roof deck per Owens Corning requirements with all existing roofing material and debris removed, including, but not limited to, felt, ice, and water membrane, raised nails, flashing materials for chimneys, skylights, soil pipe boots, ridge and off-ridge vents, etc. Repairs must be made to any damaged areas, such as loose or cracked mortar on chimneys or rotten wood decking.
4. For your roof to qualify as a complete Roofing System, you must purchase and install the following products:
 - a. Owens Corning® Shingles.

- b. Owens Corning® Underlayment Products. Qualifying Owens Corning® Underlayment Products include DeckDefense® High Performance Roof Underlayment, ProArmor® Synthetic Roof Underlayment, RhinoRoof® U20, Titanium® UDL25, Titanium® UDL30, Titanium® UDL50, Titanium® X30 Synthetic Roof Underlayment. Installing a qualifying Owens Corning® Self-Adhered Ice & Water Barrier product covering the entire deck also meets this requirement and Section d (i).
 - c. Owens Corning® Hip & Ridge Shingles. Qualifying Owens Corning® Hip & Ridge Shingles include Berkshire®, DecoRidge®, DuraRidge®, ImpactRidge®, ProEdge®, and RIZERidge® (Exception: If your roof has Supreme® Shingles, Owens Corning® Hip & Ridge is not required. If Owens Corning® Hip & Ridge is not used, you then must use all three components listed in Section d below).
 - d. Plus, any 2 of the 3 products listed below (one product from each category):
 - i. Owens Corning® Self-Adhered Ice & Water Barrier products. Qualifying Ice & Water Barrier products include WeatherLock®, Titanium®, or RhinoRoof®.
 - ii. Owens Corning® Starter Shingle Products. Owens Corning® VentSure® Ventilation products: If a VentSure® product is used, it should be part of a balanced air ventilation system consisting of both functional intake and exhaust ventilation products. If a VentSure® Intake Vent AND VentSure® Exhaust Vent are both used, this will count as one (1) of the four (4) requirements. This warranty excludes VentSure® Off-Ridge Exhaust Vents.
5. New metal flashing(s) and drip edge must be installed, counter flashing is required where applicable, and all required details and flashings must be correctly installed as per Owens Corning requirements and in compliance with the listed Eligibility Requirements.

Exceptions to the **"Eligibility Requirements for This Warranty"** section may be made at the sole discretion of Owens Corning and must be approved in writing by Owens Corning prior to Roofing System installation.

WHAT IS COVERED

We warrant that your Owens Corning® Roofing System is free from any manufacturing defects that (1) materially affect their performance on your roof during the TRU PROtection® period or that (2) cause leaks during the balance of the applicable warranty period after the TRU PROtection® coverage period has expired. (To determine the length of the TRU PROtection® coverage period and the balance of the applicable warranty period, please see **"How Long Are You Covered"** and the **"Limited Warranty Information Table"** at the end of this warranty.)

This warranty applies only to those shingles purchased after January 1, 2023 and before the date a later warranty applicable to the shingles comes into effect. This warranty does not cover non-Owens Corning® roofing components, such as flashing, fasteners, pipe boots, and wood decking.

WORKMANSHIP TERMS

This warranty covers workmanship for a period of time as described in the terms below. Workmanship includes any defective installation of the Owens Corning® Roofing System that causes leaks or materially affects the performance of your roof. The Workmanship Terms are only valid if the Owens Corning® Roofing System is installed by a Platinum or Preferred Contractor, per the terms and conditions of the Preferred Protection Limited Warranty requirements. Failure to meet the Eligibility Requirements for this warranty or improperly registered warranties is not covered.

PREFERRED PROTECTION WORKMANSHIP PERIOD

During the Preferred Protection Workmanship Period, if any part of your Roofing System is found to have an application defect or there are application errors in your Roofing System that cause leaks or materially affect the performance of your roof, Owens Corning will arrange to have your roof repaired or recovered or, at its sole option, will provide you with replacement roofing products and issue compensation (**COMPENSATION** as defined below) for the full reasonable cost of labor and other materials to repair or recover your roof, including flashings at valleys, dormers, chimneys, and plumbing vents. Failure to install adequate ventilation is not an application error of your Owens Corning® Products. Ventilation can be limited by the design and configuration of existing structures. The costs of labor to tear off some or all of your Roofing System and disposal are included, if necessary, to repair your roof. Preferred Protection Workmanship Period is outlined in the **“Limited Warranty Information Table.”**

NOTE: First 2 years. If your claim arises out of an application error that is discovered or discoverable within the first 2 years after installation, it is the obligation of the Platinum or Preferred Contractor who installed your Roofing System to make all necessary repairs. In the event that your roofing contractor is unable or unwilling to perform these repairs, Owens Corning will arrange to have your roof repaired.

HOW LONG ARE YOU COVERED

ALL IMPLIED WARRANTIES APPLICABLE TO YOUR SHINGLES OR ROOFING SYSTEM ARE LIMITED IN DURATION TO THE TRU PROTECTION® COVERAGE PERIOD APPLICABLE TO SUCH PRODUCTS, AS PROVIDED BY THIS WARRANTY, UNLESS A SHORTER PERIOD IS PERMITTED BY APPLICABLE LAW. SOME STATES OR PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

The length of your warranty depends on the type of Owens Corning® Shingles you purchased. See the **“Limited Warranty Information Table”** at the end of this warranty for the specific warranty period that applies to your shingles. If you make a claim under this warranty that results in a repair of your roof, this warranty will be unaffected, as long as the repair is done by a Platinum or Preferred Contractor, and will continue to provide you with coverage on your entire Roofing System provided that Owens Corning® Products are used in the repairs. However, if you make a claim that results in your entire Roofing System being removed and replaced, this warranty will be void. If new Owens Corning® Shingles are installed, you will then receive an Owens Corning® Standard Product Limited Warranty. However, if you once again install an entire Roofing System, you will be eligible to purchase a new Preferred Protection Limited Warranty (or other premium warranty), as long as the new Roofing System is installed by a Platinum or Preferred Contractor per the **“Eligibility Requirements for This Warranty.”**

1. TRU PROTECTION® PERIOD

From the installation of the shingles through the TRU PROtection® Coverage period of this warranty, Owens Corning will compensate you to either repair, replace, or recover products that Owens Corning determines are defective, including the cost of tear-off and disposal subject to certain limitations. TRU PROtection® period excludes workmanship coverage. See the **“Limited Warranty Information Table”** at the end of the warranty for specific TRU PROtection® periods that apply to the Owens Corning® Shingles you have purchased. Owens Corning reserves the right to arrange directly for the repair or replacement of your products instead of compensating you directly. This compensation is limited as follows:

- a. If Owens Corning decides to replace the shingles, Owens Corning will compensate you only for the cost of replacement Owens Corning® Shingles and the labor directly required to replace the defective shingles, both as reasonably determined by Owens Corning.
- b. If Owens Corning decides to repair or recover the shingles, Owens Corning will compensate you only for the cost of the labor directly required to repair or recover the defective shingles as reasonably determined by Owens Corning.
- c. TRU PROtection® coverage period does not apply to Wind and Algae coverage. Please see **“What About Wind Resistance”** and **“What About Algae Resistance”** portions of this warranty for applicable coverage.

Under this Preferred Protection Limited Warranty, all Owens Corning® Products (see **“Eligibility Requirements for This Warranty”**), with the exception of VentSure® Off-Ridge Exhaust Vents, share the TRU PROtection® period concurrent with the shingle installed. At the expiration of the TRU PROtection® period, all products revert to the coverage specified by their standard warranties. Under the Preferred Protection Limited Warranty, if a cut Owens Corning® Supreme® Shingle is used instead of Owens Corning® Hip & Ridge Shingles, the warranty and TRU PROtection® period for the Supreme® Shingle is 15 years. The Owens Corning® Supreme® Shingles do not assume the warranty term for shingles used on the balance of the roof, unless the entire roof is installed with Supreme® Shingles.

2. PRORATED PERIOD

Once the TRU PROtection® period of this warranty has expired, the prorated period will begin. During this prorated period, we will provide prorated compensation of the cost of the defective Owens Corning® products, but no other costs will be covered, and we will take into account the number of full years of use you have enjoyed from the original installation date through the date of your claim, and reduce the amount of our compensation to you accordingly. We will prorate the amount of our compensation to you to adjust for the number of years you have enjoyed from the original installation date through the date of your claim. For example: If you have a 25-year warranty and you make your claim anytime in the 15th year of the warranty, our compensation to you will be reduced by 14/25ths of the Owens Corning® Product cost at the time of purchase. For lifetime shingle coverage (for as long as Owner owns the home on which the Roofing System is installed), see the **“Limited Lifetime[△] Shingle Proration[^] Table.”** Owens Corning reserves the right to arrange directly for the repair or replacement of your products instead of compensating you directly.

3. OTHER TYPES OF STRUCTURES

The coverage for all Owens Corning® Shingles offered by this warranty depends on the structure on which the shingles are installed and the owner of the structure. Lifetime coverage for all Owens Corning® Shingles applies only to single-family detached homes where the owner of the roof is the resident occupying the home. In the instance of shingles purchased or installed upon property owned by others (for example, corporations, governmental agencies, partnerships, trusts, religious organizations, schools, condominiums, homeowners’ associations, or cooperative housing arrangements) or installed on any other structures (for example, on apartment buildings or any other type of building or premises not used by individual homeowners as their residence), the warranty period for Oakridge® Shingles will be 40 years, all other lifetime shingles will be 50 years from the original installation date of the shingles, and the TRU PROtection® period will be 20 years. Please see the **“Limited Lifetime[△] Shingle Proration[^] Table”** below for the prorated formula after TRU PROtection® coverage expires for lifetime shingles.

Limited Lifetime[△] Shingle Proration[^] Table

STRUCTURE/ OWNER	TRU PROTECTION® PERIOD YEARS 1-50	PRORATED PERIOD YEARS 51 AND BEYOND	
		YEARS 21-40 OAKRIDGE SHINGLES ONLY	YEARS 21-50 ALL OTHER LIFETIME SHINGLES
Single-family detached homes	100%++	20%	
Other types of structures	100%++	50% reduced by 2.5% each year thereafter [^]	60% reduced by 2% each year thereafter [^]

[△] For as long as Owner owns home.

[^] Proration is calculated annually, based on the original installation date. There are no partial-year prorations.

++ Of costs covered under this warranty.

4. EXCEPTIONS

All Owens Corning Obligations of Compensation under this warranty, whether for repair, replacement, recovery, or refunding a prorated portion of the original purchase price of the defective Owens Corning® Products, are subject to the limitations provided by this warranty. Owens Corning will not compensate for the removal and replacement of solar panels or other rooftop equipment.

5. WHAT ABOUT WIND RESISTANCE

Your shingles contain asphalt sealant that requires direct warm sunlight for several days ("Thermal Sealing") in order to seal properly. If your shingles are installed during a period of cool weather, they may not adequately seal until the weather warms, and if your shingles never receive direct sunlight or are not exposed to adequate surface temperatures, they may never achieve Thermal Sealing. Prior to your shingles achieving Thermal Sealing, your shingles are more vulnerable to blow-offs and wind damage. This is the fundamental nature of shingles and not a manufacturing defect, and we are not responsible for any blow-offs or wind damage that might occur prior to Thermal Sealing having occurred.

After your shingles have achieved Thermal Sealing, however, they will be covered under this warranty if they experience blow-offs or wind damage in winds (including gusts) up to the levels and for the period from the original installation date ("Wind Warranty Period"), listed in the "**Limited Warranty Information Table**" at the end of this warranty.

HOWEVER, THE COVERAGE AGAINST SHINGLE BLOW-OFFS OR WIND DAMAGE IS IN EFFECT FOR A PERIOD OF 15 YEARS FOR LIFETIME SHINGLES AND 12 YEARS FOR SUPREME® SHINGLES, FROM THE ORIGINAL DATE OF INSTALLATION.

Owens Corning will be liable only for the reasonable cost of replacing blown-off shingles and Owens Corning® Hip & Ridge Shingles, if applicable (to include material and labor during the applicable TRU PROtection® warranty period), and the reasonable cost of manually sealing the unsealed shingles remaining on the roof. Owens Corning is not responsible where the damage or blow-offs are caused by damage to the underlying structure.

6. WHAT ABOUT ALGAE RESISTANCE

If the shingles that you purchased were not specifically labeled as "**Algae Resistant**" ("AR"), then any discoloration caused by algae is not covered by this warranty as explained in "**What Is Not Covered.**" However, if you did purchase AR shingles, they are covered for the period described in the "**Limited Warranty Information Table**" at the end of this warranty following the date of installation ("AR Warranty Period") against brown- black staining caused by growth of cyanobacteria *Gloeocapsa magma* algae. To be eligible for 25-year AR coverage, you must use one of the following Owens Corning® Hip & Ridge Shingles: Berkshire®, DecoRidge®, DuraRidge®, ImpactRidge®, ProEdge®, or RIZERidge®. We do not cover the effects of other growth, such as mold, lichen, and green algae. If brown- black staining occurs during the AR Warranty Period, you will be entitled to the following remedy:

- a. **Non-Prorated Period** — From the installation of the shingles until fifteen (15) years after the date of installation, we will compensate you for the cost, including labor (such cost not to exceed the cost of the AR shingles plus the cost of installation), as reasonably determined by Owens Corning, to repair, replace, or recover the affected AR shingles. For purposes of this AR shingle warranty, the term "repair" as used above refers to cleaning or otherwise removing any algae growth from affected AR shingles. Decisions regarding whether your AR shingles should be repaired, replaced, or recovered will be made solely by Owens Corning.
- b. **Prorated Period** — Once the non-prorated coverage period for algae resistance (as described above) has expired, the prorated period will begin. During this prorated period, we will provide compensation limited to a prorated amount of the cost of the affected AR shingles. No labor or other costs will be covered during the prorated period, and we will take into account the number of full years of use that you have enjoyed from the original installation date through the date of your claim, and

reduce the amount of our compensation to you accordingly. For example: If you purchased a shingle with a 25-year AR warranty period, and you make your claim anytime in the 16th year of the warranty, our compensation to you will be the amount of the cost of the affected Owens Corning® AR Shingle Products reduced by 16/25ths of the cost at the time of purchase of the affected AR Shingle Products.

- c. ****If a qualifying Owens Corning® manufactured Hip & Ridge shingle is **not** used, the AR warranty period is reduced from 25 to 10 years, and the non-prorated period will be 1 year.
- d. See Limited Warranty Information table below for applicable AR product coverage.

NOTE: In some coastal areas and/or areas with limited rainfall, copper released by algae-resistant shingles can cause excessive corrosion to aluminum gutters. In these regions, Owens Corning recommends using vinyl gutters and will not be liable for any damage that may result from using aluminum gutters with algae-resistant shingles.

TRANSFERABILITY OF THIS WARRANTY (BASED ON ORIGINAL INSTALLATION DATE)

• **Single-Family Detached Homes**

This warranty is not transferable except as follows: You may only transfer this warranty one time, anytime during the life of the warranty, to the purchasers of the structure on which the shingles are installed. For this warranty to transfer and the second Owner to obtain the benefits of this warranty, the second Owner must, within 60 days after the date of the real estate transfer, contact 1-800-ROOFING and submit together: (1) proof of purchase of the Owens Corning® Roofing System, (2) the installation date and ownership history, and (3) a fee of \$100.00.

1. If the transfer takes place within the first 15 years for Supreme® Shingles or 20 years for lifetime shingles, the second Owner is entitled to the balance of the TRU PROtection® Period, and the Preferred Protection Workmanship Period is fully transferable in the first 10 years and will remain a 10-year workmanship period from the original date of installation.
2. If the transfer occurs after the first 15 years for Supreme® Shingles or 20 years for lifetime shingles, the balance of this warranty shall be reduced to a 2-year period after the date of ownership change. Since the Preferred Protection Workmanship Period expires after 10 years, it is non-transferable after 10 years. If there is a manufacturing defect that causes leaks during this 2-year period, our compensation to the second Owner will be based only on the reasonable cost of the replacement Roofing System reduced by the amount of use enjoyed from the original installation date through the date of your claim.
3. The AR Warranty Period and Wind Warranty Period are fully transferable. The second Owner will receive the balance of the coverage outlined in the "**Limited Warranty Information Table**" based upon the original installation date.

• **Other Types of Structures**

This warranty is not transferable except as follows: You may only transfer this warranty one time, anytime during the life of the warranty, to the purchaser of the structure on which the shingles are installed. For this warranty to transfer and the second Owner to obtain the benefits of this warranty, the second Owner must, within 60 days after the date of the real estate transfer, contact 1-800-ROOFING and submit together: (1) proof of purchase of the Owens Corning® Roofing System, (2) the installation date and ownership history, and (3) a fee of \$100.00.

1. If the transfer takes place within the first 15 years for Supreme® Shingles or 20 years on lifetime shingles, the second Owner is entitled to the same coverage as the original Owner. If the transfer occurs after the first 15 years for Supreme® Shingles or 20 years for lifetime shingles, the balance of this warranty shall be reduced to a 2-year period after the date of ownership change.

- If there is a manufacturing defect that causes leaks during this 2-year period, our compensation to the second Owner will be based only on the reasonable cost of the replacement Roofing System reduced by the amount of use the second Owner and the original Owner have enjoyed from the original installation date through the date of your claim.
- The AR Warranty Period and Wind Warranty Period are fully transferable. The second Owner will receive the balance of the coverage outlined in the **"Limited Warranty Information Table."**

WHAT IS NOT COVERED

Our warranty does not cover damage to the Owens Corning® Shingles or Products due to any cause not expressly covered in this warranty. After our shingles or products leave our manufacturing facility, they are subjected to conditions and handling beyond our control, which could affect their performance. This warranty does not cover any problems with nondefective shingles or products caused by conditions or handling beyond our control. Some examples of conditions not covered by this warranty include:

- Acts of God, such as hail, strong storms, or winds (including gusts) over the maximum windspeed listed in the **"Limited Warranty Information Table"** at the end of this warranty, ice damming above the area covered by leak barriers or flashings, or snow or water infiltration through exhaust vents.
- Roof damage or leaks caused by pre-existing conditions, underlying roofing materials, underlying structural failures, settlement, or any defective areas on or near the roof that are not part of the Roofing System. Examples include but are not limited to chimneys with loose or cracked mortar, damaged siding, faulty counterflashing, or improperly designed or installed gutter or downspout systems.
- Foot traffic on your roof or damage caused by objects (e.g., tree branches) falling on your roof.
- Shading, or variations in the color of your Owens Corning® Shingles and, if applicable, Owens Corning® Hip & Ridge Shingles or discoloration caused by algae, fungi, lichen, or cyanobacteria (unless covered under the section **"What About Algae Resistance"**).
- Improper or faulty installation of your Roofing System by an installer other than a Platinum or Preferred Contractor.
- Damage caused by improper or inadequate roof ventilation or roof drainage, unvented attics, or enclosed roof rafter assemblies.
- Damage caused by, or the cost to repair or replace, any non-Owens Corning® products, including but not limited to metal work, counter flashing, failed and/or corroded roof nails, or pipe boots that allow water to enter the structure or Roofing System.
- Damage to the Roofing System caused by alterations made after completion of application, including structural changes, equipment or solar panel installation, power washing, painting, the application of cleaning solutions not in accordance with our algae removal instructions, coatings, or other modifications.
- Any damage due to debris, resins, or drippings from foliage.
- Improper storage, handling, or other conditions beyond our control; and
- Any costs that you incur that are not authorized in advance by Owens Corning.

REPLACEMENT SHINGLE VARIATION

As a result of our ongoing efforts to improve and enhance our shingle and product line, we must reserve the right to discontinue or modify our shingles and products, including their colors. We are not liable to you if you make a warranty claim in the future, and any replacement shingles or products you receive vary in color either because of normal weathering or changes in our shingle or product line. You should understand that, if we replace any of your shingles or products under this warranty, we reserve the right to provide you with substitute shingles and products that are comparable only in quality and/or price to your original shingles and products.

COMPENSATION

Under the terms of this warranty, the manner of compensation is at the sole discretion of Owens Corning and may be arranged directly by Owens Corning or issued in the form of cash settlement and/or material credit for Owens Corning® Products to an existing supplier of Owens Corning® Roofing Materials. All costs must be pre-approved by Owens Corning.

CLAIMS PROCESS & RIGHT OF INSPECTION

To make a claim under this warranty, you must do so within 30 days after you discover the problem. To fully evaluate your claim, we may ask you to provide, at your expense, pictures of your shingles or shingle samples for us to test. You must do so in order to be eligible to make a claim under this warranty. To make a claim or if you have any questions, call us at 1-800-ROOFING or visit us at www.owenscorning.com/roofing. If you repair or replace your Owens Corning® Products before Owens Corning has made a determination on your claim, your claim may be denied. Owens Corning shall have a reasonable time after notification of a claim to inspect the roof. If requested by Owens Corning, the Owner shall provide Owens Corning with reasonable access to the roof, during normal business hours, for the purpose of conducting an inspection of the roofing products.

NO MODIFICATIONS TO THIS WARRANTY

The terms of this warranty may not be waived or modified (whether by a statement, omission, course of dealing, or any act), except in writing signed by an officer of Owens Corning or a licensed attorney in the Owens Corning legal department, Field Technical Leader, or by the Owens Corning Field Technical Manager. Other than such an officer, attorney, Field Technical Leader, or Field Technical Manager, nobody (regardless of whether an Owens Corning employee, a contractor, an installer, or otherwise) has authority to act on behalf of Owens Corning (for example to waive or modify this warranty, to make representations or warranties, or to undertake any liability). This warranty represents the entire agreement between the parties and replaces all other communications, warranties, representations, and guarantees.

MANDATORY ARBITRATION

To the extent permitted by applicable law, Owens Corning and you agree to single arbitration of all disputes and claims arising out of or relating to this warranty or Owens Corning® Shingles ("Dispute"). This warranty evidences a transaction in interstate commerce, and the Federal Arbitration Act governs the interpretation and enforcement of this provision. A party who intends to seek arbitration must first send to the other, by certified mail, a written notice of intent to arbitrate ("Notice"). The Notice to Owens Corning should be addressed to: One Owens Corning Parkway, Toledo, OH 43659 ("Arbitration Notice Address"). The Notice must (a) describe the nature and basis of the claim or dispute and (b) set forth the specific relief sought ("Demand"). If the parties do not reach an agreement to resolve the claim within 30 days after Notice is received, you or Owens Corning may commence an arbitration proceeding. All issues are for the arbitrator to decide, including the scope of this arbitration clause, but the arbitrator is bound by the terms of this warranty. The arbitration shall be governed by the Commercial Dispute Resolution Procedures and the Supplementary Procedures for Consumer Related Disputes (collectively, "AAA Rules") of the American Arbitration Association ("AAA"), as modified by this warranty, and shall be administered by the AAA.

YOU AND OWENS CORNING HEREBY WAIVE THE RIGHT TO A TRIAL BY JURY.

The arbitrator may award injunctive relief only in favor of the individual party seeking relief and only to the extent necessary to provide relief warranted by that party's individual claim.

YOU AND OWENS CORNING MAY BRING CLAIMS AGAINST THE OTHER ONLY IN EACH PARTY'S INDIVIDUAL CAPACITY, AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY PURPORTED CLASS OR REPRESENTATIVE PROCEEDING.

Further, you agree that the arbitrator may not consolidate proceedings of more than one person's claims and may not otherwise preside over any form of a representative or class proceeding.

GOVERNING LAW AND FORUM

This warranty and all Disputes are governed by United States Federal laws and laws of Ohio. Subject to the **"Arbitration"** provision in this warranty, if there are any Disputes that cannot be arbitrated, the parties consent to the exclusive jurisdiction and venue of the state and federal courts in Ohio with respect to such Disputes.

SAVINGS AND SEVERABILITY

To the extent that this warranty is inconsistent with applicable law, this warranty is hereby modified to be consistent with such applicable law. If an arbitrator or court determines that any term in this warranty is illegal or unenforceable, the parties intend for the arbitrator or court to interpret or modify this warranty to the effect of the original intent of the parties as closely as possible while rendering the term and this warranty fully legal and enforceable. If a term in this warranty cannot be rendered legal and enforceable accordingly, the parties intend for the arbitrator or court to sever the illegal or unenforceable term from this warranty, leaving the remainder of this warranty enforceable.

LIMITATIONS

NO DISPUTE MAY BE BROUGHT LATER THAN 1 YEAR AFTER ANY CAUSE OF ACTION HAS ACCRUED, AFTER WHICH ALL DISPUTES ARE FOREVER BARRED.

THIS WARRANTY IS YOUR EXCLUSIVE WARRANTY FROM OWENS CORNING AND REPRESENTS THE SOLE REMEDY TO ANY OWNER OF OWENS CORNING® SHINGLES AND THE OWENS CORNING® ROOFING SYSTEM. OWENS CORNING MAKES NO OTHER REPRESENTATIONS, WARRANTIES, OR GUARANTEES OF ANY KIND OTHER THAN THOSE STATED EXPLICITLY IN THIS WARRANTY.

YOUR REMEDY FOR DEFECTIVE SHINGLES OR OWENS CORNING® ROOFING SYSTEM IS FULLY DESCRIBED IN THE SECTION, **"HOW LONG ARE YOU COVERED."** YOU ARE NOT ENTITLED TO ANYTHING MORE THAN WHAT IS DESCRIBED IN THAT SECTION. OWENS CORNING HAS NO REASON TO KNOW ANY PARTICULAR PURPOSE FOR WHICH YOU ARE BUYING SHINGLES OR ROOFING SYSTEM PRODUCTS.

OWENS CORNING IS NOT RESPONSIBLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, PUNITIVE, OR OTHER DAMAGES OF ANY KIND, INCLUDING DAMAGE TO YOUR STRUCTURE OR TO YOUR STRUCTURE'S CONTENTS, WHETHER FOR BREACH OF THIS WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHER CLAIMS DERIVED IN TORT OR FOR ANY OTHER CAUSE.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

LIMITED WARRANTY INFORMATION TABLE

PRODUCT NAME	WARRANTY PERIOD		TRU PROTECTION® PERIOD		PREFERRED PROTECTION WORKMANSHIP PERIOD		WIND WARRANTY PROTECTION	WIND WARRANTY PERIOD	ALGAE WARRANTY¹ PERIOD
	SINGLE-FAMILY DETACHED HOME	OTHER TYPES OF STRUCTURES	SINGLE-FAMILY DETACHED HOME	OTHER TYPES OF STRUCTURES	SINGLE-FAMILY DETACHED HOME	OTHER TYPES OF STRUCTURES			
Berkshire®	Lifetime [△]	50 Years	50 Years	20 Years	10 Years	10 Years	130 MPH	15 Years	25 Years***
Woodmoor®	Lifetime [△]	50 Years	50 Years	20 Years	10 Years	10 Years	110 MPH/ 130 MPH†	15 Years	25 Years***
Woodcrest®	Lifetime [△]	50 Years	50 Years	20 Years	10 Years	10 Years	110 MPH/ 130 MPH†	15 Years	25 Years***
Duration® Series ^{††/1}	Lifetime [△]	50 Years	50 Years	20 Years	10 Years	10 Years	130 MPH	15 Years	25 Years***
Oakridge® ^{†††}	Lifetime [△]	40 Years	50 Years	20 Years	10 Years	10 Years	110 MPH/ 130 MPH‡	15 Years	25 Years***
Supreme®	25 Years	25 Years	15 Years	15 Years	10 Years	10 Years	60 MPH	5 Years	10 Years

[△] For as long as Owner owns home.

** TruDefinition® Duration FLEX® Shingles and TruDefinition® Duration STORM® Shingles require ImpactRidge® Hip & Ridge Shingles to complete a UL 2218, Class IV impact-resistant Roof System.

† 130 MPH is applicable only with Owens Corning® Starter Shingle products application along eaves and rakes in accordance with installation instructions.

‡ 110 MPH is standard with 4-nail application. 130 MPH is applicable only with 6-nail application and Owens Corning® Starter Shingle product application along eaves and rakes in accordance with installation instructions.

†† Includes TruDefinition® Duration MAX®, TruDefinition® Duration® COOL Plus, TruDefinition® Duration® COOL, TruDefinition® Duration® Designer, TruDefinition® Duration FLEX***, TruDefinition® Duration STORM***, Duration® Premium, and TruDefinition® Duration® Shingles.

††† Includes TruDefinition® Oakridge® Shingles.

1 Available regionally but not available on all product lines. See product guide or visit www.owenscorning.com/roofing for availability in your zip code.

*** 25-year AR coverage requires the use of Owens Corning® Berkshire®, DecoRidge®, DuraRidge®, ImpactRidge®, ProEdge®, or RIZERidge®, Hip & Ridge Shingles. If a qualifying Owens Corning® manufactured ridge product is **not** used, the AR warranty period is reduced from 25 to 10 years, and the non-prorated period will be 1 year.

NOTE: When properly installed, Owens Corning® Hip & Ridge shingle warranty terms will match with the corresponding roofing shingle. (See specific Owens Corning® Hip & Ridge Shingle installation instructions for details.)



OWENS CORNING ROOFING AND ASPHALT, LLC

ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659 USA

1-800-GET-PINK®

www.owenscorning.com/roofing







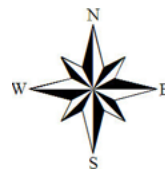


111 Florida Street GIS Map

12/30/2025 10:17:33 AM

Scale: 1"=75'

Scale is approximate



GIS information is provided on these Web Pages as a public resource for general information purposes only. It is used to locate, identify and inventory parcels of land in the City of Springfield for general purposes only and is NOT to be construed or used as a "legal description." Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against the City of Springfield that may arise from the use of this data. Information provided on these Web Pages should be verified with the appropriate City department, and reviewed and approved by an attorney or other qualified professional prior to its use for any purpose with potential legal consequences.

115250036
ABDI GENYO
172 THOMPSON ST
SPRINGFIELD, MA 01109

052200022
ALEXANDER MICHAEL T &
106 FLORIDA ST
SPRINGFIELD, MA 01109

052200066
BOONE MEREDITH G
97 FLORIDA ST
SPRINGFIELD, MA 01109

115250039
CRUMP LORRAINE A
184 THOMPSON ST
SPRINGFIELD, MA 01109

052200064
GARCIA IRIS A
117 FLORIDA ST
SPRINGFIELD, MA 01109

052200065
HILL DERRICK A & LILLIAN T
111 FLORIDA STREET
SPRINGFIELD, MA 01109

115250038
JOHNSON VIVIANA &
178 THOMPSON ST
SPRINGFIELD, MA 01109

052200021
LANE LIAM ROBERT
12 SEARLE ST
PROVIDENCE, RI 02905

052200024
RIVERA KARLA M
110 FLORIDA ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: *111 Florida Street*

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST



APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**



PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.



RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.



PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*



LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY

LOCAL HISTORIC DISTRICT: <i>McKnight</i>	DECISION:
DATE RECEIVED: <i>December 15, 2025</i>	DECISION DATE:
HEARING DATE: <i>January 15, 2025</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>December 30, 2025</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>December 30, 2025</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



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APPLICATION TYPE

PROPERTY ADDRESS: 111 Florida Street

APPLICATION TYPE (Select Application Type)

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 111 FLORIDA ST		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: DERRICK HILL		
OWNER ADDRESS: <input checked="" type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: 413-799-1768	REPRESENTATIVE/CONTRACTOR NAME: ROBERT J DECKER IV IV/ SUNRUN INSTALLATION	
OWNER EMAIL ADDRESS: DERRICKHILL1980@GMAIL.COM	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 559-240-9370	
PROPERTY CODE: 05220-0065	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: pioneervalleypermits@sunrun.com	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): INSTALLATION OF ROOFTOP SOLAR # OF PANELS 44 17.82KW TO BE INSTALLED ON THE BACK OF THE HOUSE AND ON THE GARAGE. 1 FRANKLIN BATTERY 15KW TO BE INSTALLED ON THE EXTERIOR OF THE HOUSE. TRENCHING REQUIRED		PROPOSED MODIFICATIONS (Please check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input checked="" type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Signed by:

 F61DD18984144AF...

PROPERTY OWNER'S SIGNATURE

10/27/2025

DATE

ROOFING		
<input type="checkbox"/>	<i>Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.</i>	
<input type="checkbox"/>	<i>Check box indicating that you are submitting photographs of the existing roofing.</i>	
	EXISTING	PROPOSED
ROOF STYLE (e.g. gable, hip, mansard, etc):		
MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):		
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:		
ADDITIONAL INFOMRATION:		

SOLAR	
WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?	<input type="checkbox"/> YES (PLEASE PROVIDE MORE INFO ABOVE) <input checked="" type="checkbox"/> No
<input checked="" type="checkbox"/>	<i>Check box indicating that you are submitting plans of the proposed solar project.</i>
<input checked="" type="checkbox"/>	<i>Check box indicating that you are submitting photographs of the existing roofing.</i>
ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):	ASPHALT
NUMBER OF SOLAR POWERED PANELS:	28
SOLAR MANUFACTURER:	JA SOLAR
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	ROOF AND GARAGE
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	REAR
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	REAR
LOCATION OF CONDUIT (e.g. side of building, inside the house):	BEING TRENCHED
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	UNDER GROUND

I, Derrick Hill, at 111 Florida Street, authorize

Sunrun will represent me at all Historical Committee meetings, acting as my authorized spokesperson for matters related to the solar project.

Signed by:

F61DD18984144AF... 12/10/2025

12/3/2025 05:27 PM

Subject: Structural Certification for Proposed Residential Solar Installation.
 Job Number: 221R-111HILL; Rev C
 Client: Derrick Hill
 Address: 111 Florida St, Springfield, MA 01109



Attn: To Whom It May Concern

Exp. 6/30/2026
Digitally Signed On: 12/03/25

A field observation of the existing structure at the address indicated above was performed. Structural evaluation of the loading was based on the site observations and the design criteria listed below.

Design Criteria:

- MA 10TH ED. CMR 780 (2021 IRC/IBC/IEBC), 7-16 ASCE & 2018 NDS
- Basic (Category II) Wind Speed V=115 mph, Exposure B
- Ground Snow Load = 35 psf, Min Flat Roof Snow Load = 35 psf

Based on this evaluation, I certify that the alteration to the existing structure by the installation of the PV system meets the requirements of the applicable existing and/or new building code provisions referenced above.

Additionally, I certify that the PV module assembly including all attachments supporting it have been reviewed to be in accordance with the manufacturer's specifications.

Results Summary (Hardware Check Includes Uplift Check on Attachments/Fastener, Structure Check Considers Main Structure)					
	Orientation	Attachment Spacing/Cantilever	Configuration	Max DCR	Result
AR-01	Landscape	58 / 6	Staggered	66%	Pass
	Portrait	40 / 6	Staggered	66%	Pass
	Roofing Material			Pitch	Structure Check
	Comp Shingle			34°	Pass
AR-02	Landscape	58 / 6	Staggered	66%	Pass
	Portrait	40 / 6	Staggered	66%	Pass
	Roofing Material			Pitch	Structure Check
	Comp Shingle			34°	Pass
AR-03	Landscape	58 / 6	Staggered	60%	Pass
	Portrait	40 / 6	Staggered	63%	Pass
	Roofing Material			Pitch	Structure Check
	Comp Shingle			44°	Pass

AR-04	Orientation	Attachment Spacing/Cantilever	Configuration	Max DCR	Result
	Landscape	58 / 6	Staggered	60%	Pass
	Portrait	40 / 6	Staggered	63%	Pass
	Roofing Material		Pitch		Structure Check
	Comp Shingle		44°		Pass

SHEET INDEX

PAGE #	DESCRIPTION
PV-1.0	COVER SHEET
PV-2.0	SITE PLAN
PV-2.1	ESS ELEVATION
PV-3.0	LAYOUT
PV-4.0	ELECTRICAL
PV-5.0	SIGNAGE
PV-5.1	SIGNAGE 2

SCOPE OF WORK

- SYSTEM SIZE: 17.82KW DC, 12.0KW AC
- MODULES: (44) JA SOLAR: JAM54S31-405/MR
- INVERTERS: (2) SOLAREEDGE TECHNOLOGIES: SE6000H-USS3
- ENERGY STORAGE SYSTEM: (1) FRANKLIN: APOWER XYYY 15KWH, 10KW INVERTER OUTPUT, LITHIUM IRON PHOSPHATE BATTERY (WEIGHT: 357LB EACH)
- MICROGRID INTERCONNECT DEVICE: (1) 280A AGATE X CONTROL PANEL
- RACKING: ALPHATRACK TO DECK - SNR-DC-00370
- SERVICE ENTRANCE CONDUCTORS TO BE REPLACED.

• TRENCHING REQUIRED: (DC) WIRE TO BE TRENCHED 39 FT THROUGH PAVERS AND GRASS/DIRT; 21" DEPTH OF TRENCH

NOTE: NEC 2023: 705.12 (B)(3); THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED AMPACITY OF BUSBAR

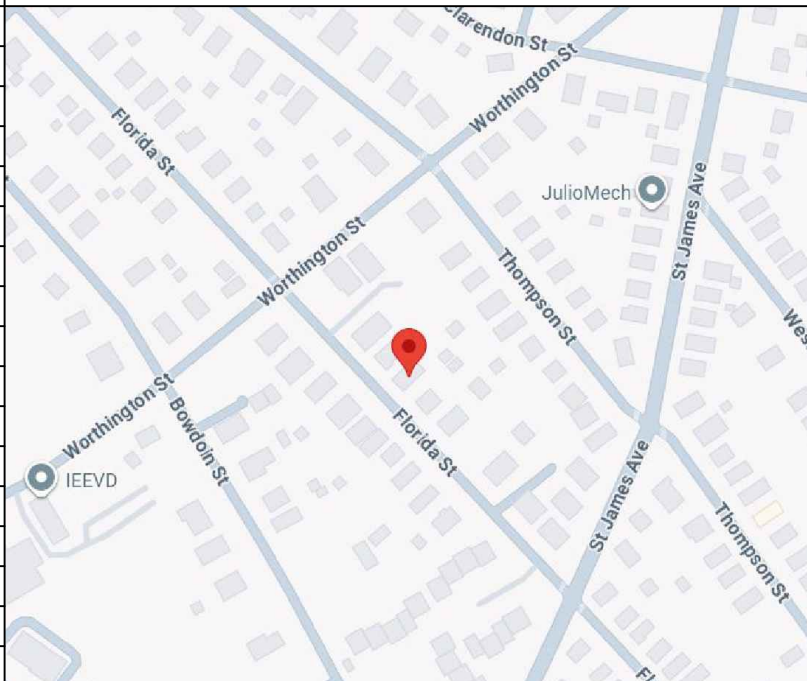
GENERAL NOTES

- ALL WORK SHALL COMPLY WITH MA 10TH ED. CMR 780 (2021 IRC/IBC/IEBC), 7-16 ASCE & 2018 NDS, , 2023 NEC AND 2023 MA ELECTRICAL CODE 527 CMR 12.00 (2023 NFPA 70 WITH MA AMENDMENTS), MUNICIPAL CODE, AND ALL MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.
- PHOTOVOLTAIC SYSTEM WILL COMPLY WITH NEC 2023.
- ELECTRICAL SYSTEM GROUNDING WILL COMPLY WITH NEC 2023.
- PHOTOVOLTAIC SYSTEM IS UNGROUNDED. NO CONDUCTORS ARE SOLIDLY GROUNDED IN THE INVERTER. SYSTEM COMPLIES WITH 690.41(A)
- MODULES CONFORM TO AND ARE LISTED UNDER UL 61730.
- INVERTER CONFORMS TO AND IS LISTED UNDER UL 1741.
- RACKING CONFORMS TO AND IS LISTED UNDER UL 2703.
- SNAPRACK RACKING SYSTEMS, IN COMBINATION WITH TYPE I, OR TYPE II MODULES, ARE CLASS A FIRE RATED.
- RAPID SHUTDOWN REQUIREMENTS MET WHEN INVERTERS AND ALL CONDUCTORS ARE WITHIN ARRAY BOUNDARIES PER NEC 690.12(1).
- CONSTRUCTION FOREMAN TO PLACE CONDUIT RUN PER 690.31(D).
- ARRAY DC CONDUCTORS ARE SIZED FOR DERATED CURRENT.
- 13.87 AMPS MODULE SHORT CIRCUIT CURRENT.
- 17.34 AMPS DERATED SHORT CIRCUIT CURRENT [690.8 (a) & 690.8 (b)].
- PV INSTALLATION COMPLIES WITH THE NEC 2023 ARTICLE 690.12(B)(2)(2). CONTROLLED CONDUCTORS LOCATED INSIDE THE ARRAY BOUNDARY ARE LIMITED TO 80 VOLTS WITHIN 30 SECOND OF A RAPID SHUTDOWN INITIATION
- THE CAPACITY OF THE STANDALONE SYSTEM SUPPLY SHALL BE EQUAL TO OR GREATER THAN THE LOAD POSED BY THE SINGLE LARGEST UTILIZATION EQUIPMENT CONNECTED TO THE SYSTEM PER NEC ARTICLE 710.15(A)
- ALL PASS-THROUGH CONDUCTORS MUST COMPLY WITH NEC 312.8

ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT
AFC	ARC FAULT CIRCUIT INTERRUPTER
AZIM	AZIMUTH
COMP	COMPOSITION
DC	DIRECT CURRENT
(E)	EXISTING
ESS	ENERGY STORAGE SYSTEM
MSP	MAIN SERVICE PANEL
(N)	NEW
PRE-FAB	PRE-FABRICATED
PSF	POUNDS PER SQUARE FOOT
PV	PHOTOVOLTAIC
RSD	RAPID SHUTDOWN DEVICE
TL	TRANSFORMERLESS
V	VOLTS
W	WATTS

VICINITY MAP



SUNRUN

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
PHONE 888.657.6527
FAX 805.528.9701

CUSTOMER RESIDENCE:
DERRICK HILL
111 FLORIDA ST, SPRINGFIELD,
MA, 01109

TEL: (413) 799-1768
APN: SPRI-005220-000000-000065

PROJECT NUMBER:
221R-111HILL

DESIGNER: (415) 580-6920 ex3
Jean Claude IRADUKUNDA

SHEET
COVER SHEET

REV: C 11/19/2025

PAGE PV-1.0

REV	NAME	DATE	COMMENTS



NOTES:

- RESIDENCE DOES NOT CONTAIN ACTIVE FIRE SPRINKLERS.

ARRAY DETAILS:

- TOTAL ROOF SURFACE AREA: 3780 SQFT.
- TOTAL PV ARRAY AREA: 925.02 SQ FT.
- PERCENTAGE PV COVERAGE:
(TOTAL PV ARRAY AREA/TOTAL ROOF SURFACE AREA) * 100 = 27.38%

	ARRAY PITCH	TRUE AZIM	MAG AZIM	PV AREA (SQFT)
AR-01	34°	317°	331°	126.14
AR-02	34°	137°	151°	126.14
AR-03	44°	137°	151°	336.36
AR-04	44°	317°	331°	336.36

SUNRUN

ENGINEER ADDRESS:
225 BUSH ST, SUITE 1400
SAN FRANCISCO, CA 94104
P: 949-383-0993

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
PHONE 888.657.6527
FAX 805.528.9701

CUSTOMER RESIDENCE:
DERRICK HILL
111 FLORIDA ST, SPRINGFIELD,
MA, 01109

TEL: (413) 799-1768
APN: SPRI-005220-000000-000065

PROJECT NUMBER:
221R-111HILL

DESIGNER: (415) 580-6920 ex3
Jean Claude IRADUKUNDA

SHEET
SITE PLAN

REV: C 11/19/2025

PAGE
PV-2.0

LEGEND SCALE: NTS
NOTE: NOT ALL ITEMS IN LEGEND WILL APPEAR IN SITE PLAN

- SE SERVICE ENTRANCE
- MP MAIN PANEL
- SP SUB-PANEL

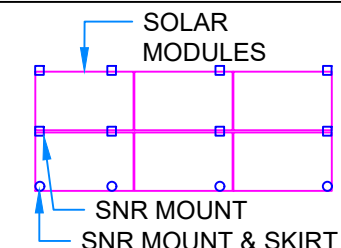
- RSD EXTERNAL RAPID SHUTDOWN SWITCH
- AC AC DISCONNECT(S)
- DC DC DISCONNECT(S)

- INV INVERTER(S)
- APB FRANKLIN APBOX
- CB IQ COMBINER BOX

- BP BACKUP LOADS PANEL
- GP GENERATION PANEL
- LC PV LOAD CENTER

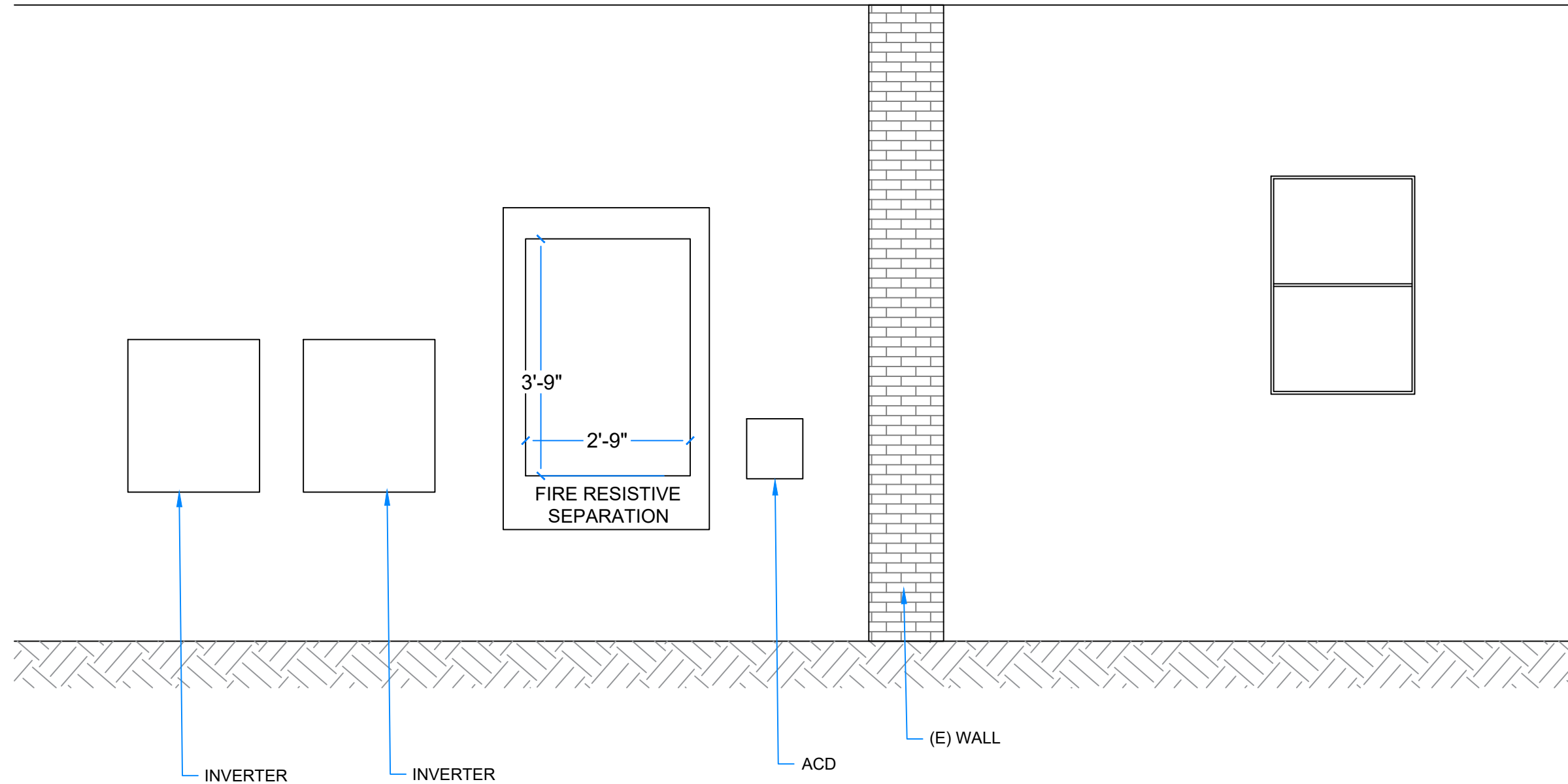
- MD MICROGRID INTERCONNECT DEVICE
- MA METER ADAPTER
- MAC METER ADAPTER CONTROLLER

- INTERIOR EQUIPMENT SHOWN AS DASHED
- BATTERY
- ENERGY STORAGE SYSTEM (ESS)





EXTERIOR WALL (TYP)



ENERGY STORAGE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S INSTRUCTION AND LISTING REQUIREMENTS
 ENERGY STORAGE UNIT TO BE INSTALLED MINIMUM 3 FEET AWAY FROM ANY WINDOW AND/OR DOOR ENTERING THE DWELLING
 ENERGY STORAGE UNIT TO BE INSTALLED ON EXTERIOR BUILDING
 FIRE DETECTION REGULATION NOT APPLICATION DUE TO EXTERIOR INSTALLATION.

NOTES:

- ENERGY STORAGE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND LISTING REQUIREMENTS'
- ENERGY STORAGE UNIT TO BE INSTALLED ON THE EXTERIOR OF BUILDING
- ENERGY STORAGE UNIT TO BE INSTALLED MINIMUM 3 FEET AWAY FROM ANY WINDOW AND/OR DOOR ENTERING THE DWELLING
- FIRE DETECTION REGULATION NOT APPLICABLE DUE TO EXTERIOR INSTALLATION
- IMPACT PROTECTION NOT REQUIRED DUE TO LOCATION NOT AT RISK OF VEHICLE DAMAGE

SUNRUN

ENGINEER ADDRESS:
 225 BUSH ST, SUITE 1400
 SAN FRANCISCO, CA 94104
 P: 949-383-0993

#180120

734 FOREST STREET #400, MARLBOROUGH, MA 01752
 PHONE 888.657.6527
 FAX 805.528.9701

CUSTOMER RESIDENCE:
 DERRICK HILL
 111 FLORIDA ST, SPRINGFIELD,
 MA, 01109

TEL. (413) 799-1768
 APN: SPRI-005220-000000-000065

PROJECT NUMBER:
 221R-111HILL

DESIGNER: (415) 580-6920 ex3
 Jean Claude IRADUKUNDA

SHEET
ESS ELEVATION

REV: C 11/19/2025

PAGE
PV-2.1

ROOF INFO			FRAMING INFO			ATTACHMENT INFORMATION					
Name	Type	Height	Type	Max Span	OC Spacing	Detail	Max Landscape OC Spacing	Max Landscape Overhang	Max Portrait OC Spacing	Max Portrait Overhang	Configuration
AR-01	COMP SHINGLE - ALPHATRACK [DECKANCHOR]	1-Story	2X10 RAFTERS	10'-11"	16"	ALPHATRACK TO DECK - SNR-DC-00370	4'-10"	0'-6"	3'-4"	0'-6"	STAGGERED
AR-02	COMP SHINGLE - ALPHATRACK [DECKANCHOR]	1-Story	2X10 RAFTERS	10'-11"	16"	ALPHATRACK TO DECK - SNR-DC-00370	4'-10"	0'-6"	3'-4"	0'-6"	STAGGERED
AR-03	COMP SHINGLE - ALPHATRACK [DECKANCHOR]	1-Story	TRUE CUT 2X6 RAFTERS	13'-8"	20"	ALPHATRACK TO DECK - SNR-DC-00370	4'-10"	0'-6"	3'-4"	0'-6"	STAGGERED
AR-04	COMP SHINGLE - ALPHATRACK [DECKANCHOR]	1-Story	TRUE CUT 2X6 RAFTERS	13'-8"	20"	ALPHATRACK TO DECK - SNR-DC-00370	4'-10"	0'-6"	3'-4"	0'-6"	STAGGERED

DESIGN CRITERIA

MAX DISTRIBUTED LOAD: 3 PSF
SNOW LOAD: 35 PSF
WIND SPEED: 115 MPH 3-SEC GUST.
FASTENERS:
 (2) DECK ANCHORS FULLY PENETRATING THROUGH WOOD DECK



Exp. 6/30/2026
 Digitally Signed On: 12/03/25

SUNRUN

#180120

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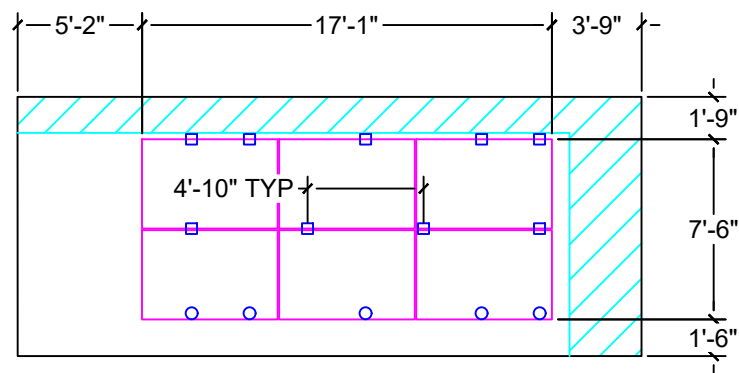
SHEET
 LAYOUT

REV: C 11/19/2025

PAGE PV-3.0

D1 - AR-01 - SCALE: 1/8" = 1'-0"

AZIM:317°
 PITCH:34°

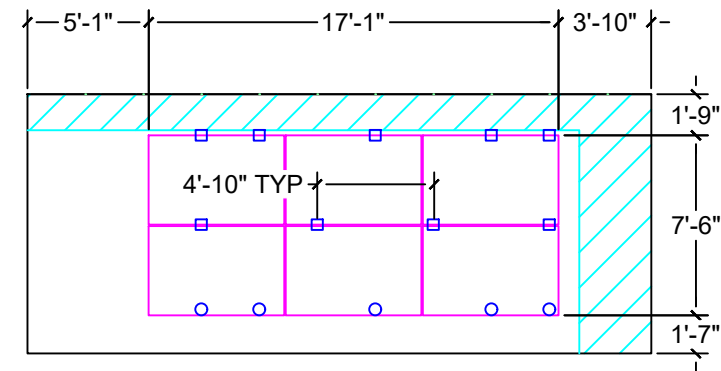


INSTALLERS SHALL NOTIFY ENGINEER OF ANY POTENTIAL STRUCTURAL ISSUES OBSERVED PRIOR TO PROCEEDING W/ INSTALLATION.

- IF ARRAY (EXCLUDING SKIRT) IS WITHIN 12" BOUNDARY REGION OF ANY ROOF PLANE EDGES (EXCEPT VALLEYS), THEN ATTACHMENTS NEED TO BE ADDED AND OVERHANG REDUCED WITHIN THE 12" BOUNDARY REGION ONLY AS FOLLOWS:
- ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS TO BE REDUCED BY 50%.
- ALLOWABLE OVERHANG INDICATED ON PLANS TO BE 1/5TH OF ALLOWABLE ATTACHMENT SPACING INDICATED ON PLANS.

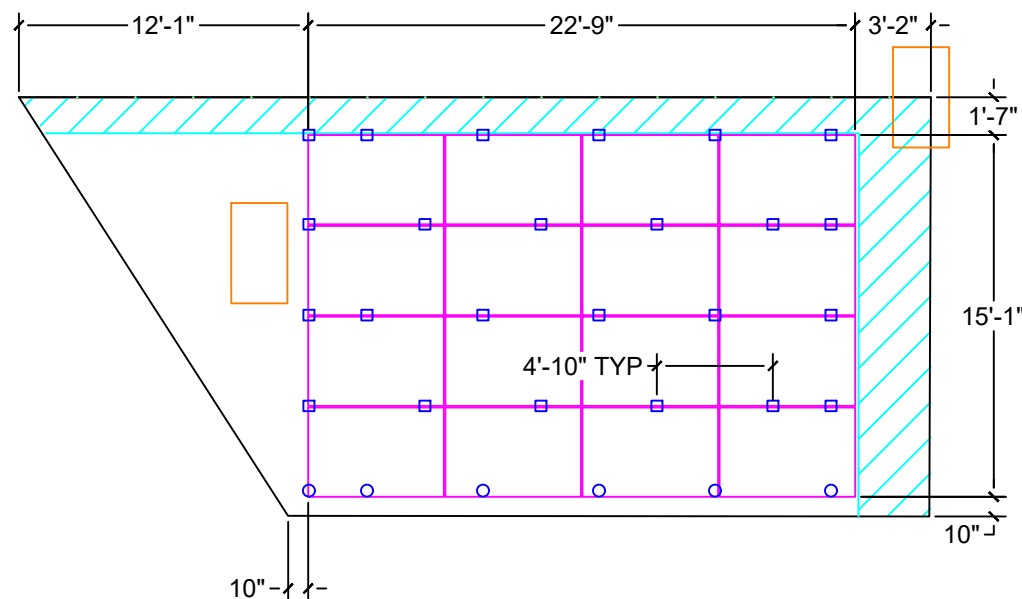
D2 - AR-02 - SCALE: 1/8" = 1'-0"

AZIM:137°
 PITCH:34°



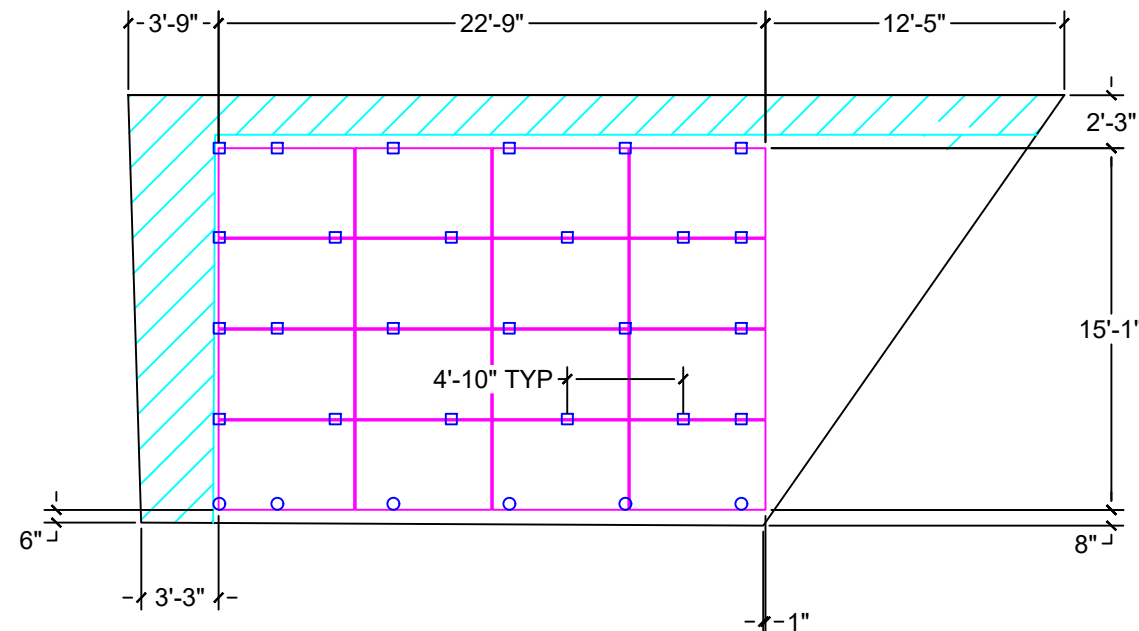
D3 - AR-03 - SCALE: 1/8" = 1'-0"

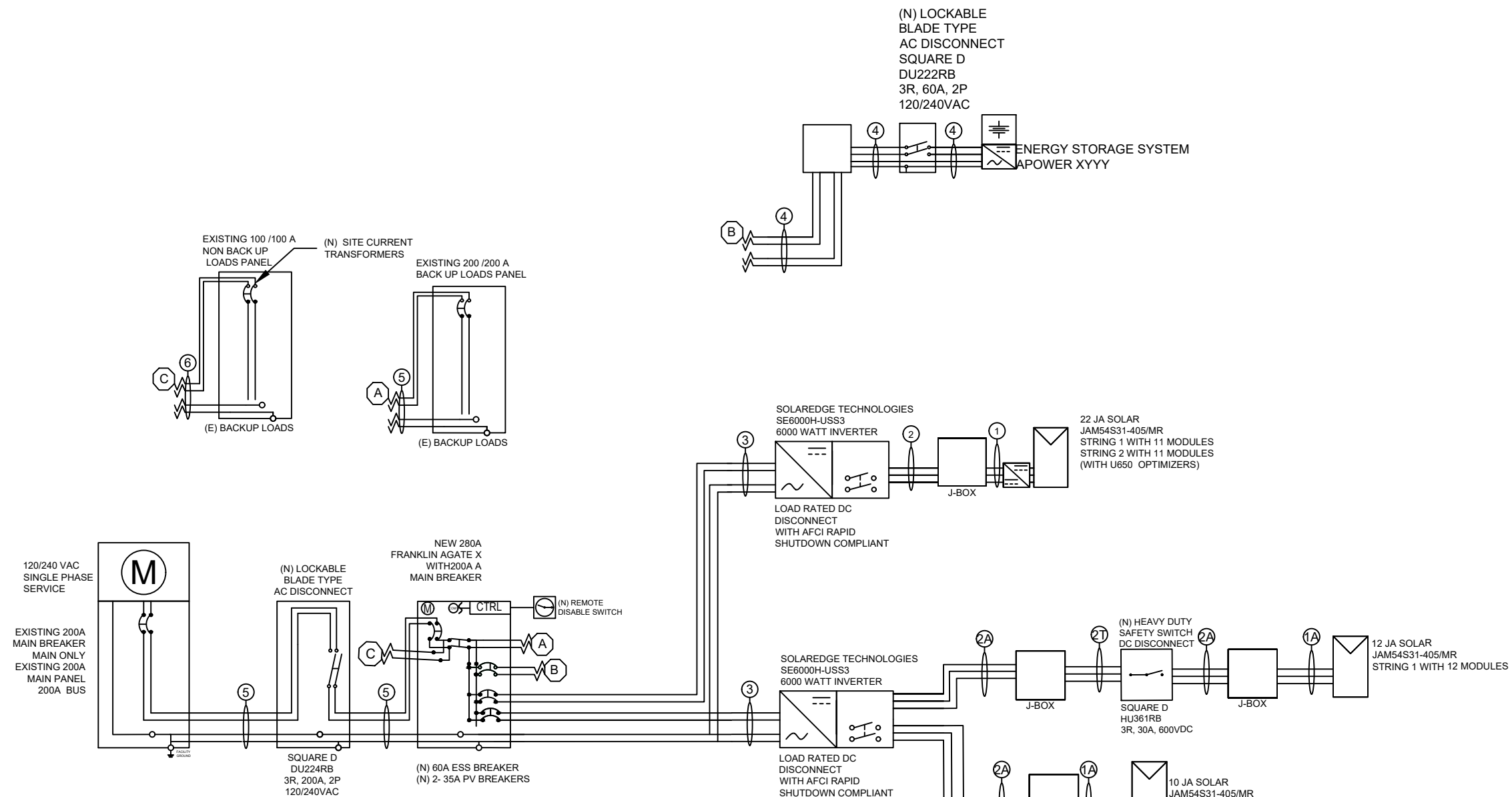
AZIM:137°
 PITCH:44°



D4 - AR-04 - SCALE: 1/8" = 1'-0"

AZIM:317°
 PITCH:44°





- POINT OF INTERCONNECTION: NEC 2023 705.12(B)(3), LOAD BREAKER AT OPPOSITE END OF BUSBAR
- METER NUMBER: 867428662
- EQUIPMENT CHARACTERISTICS INCLUDED IN SPEC SHEETS
- NOTE: TOTAL SYSTEM BACKFEED = 122.5A USED FOR INTERCONNECTION CALCULATIONS

CONDUIT SCHEDULE

TAG	CIRCUIT DESCRIPTION	CONDUCTOR	NEUTRAL	GROUND	CONDUIT
1	Inverter Input	(4) 10 AWG (PV WIRE)	N/A	6 AWG (BARE)	Open Air
1A	Inverter Input	(2) 10 AWG (PV WIRE)	N/A	6 AWG (BARE)	Open Air
2	Inverter Input	(4) 10 AWG THHN/THWN-2	N/A	8 AWG THHN/THWN-2	3/4 EMT
2A	Inverter Input	(2) 10 AWG THHN/THWN-2	N/A	8 AWG THHN/THWN-2	3/4 EMT
2T	Inverter Output	(2) 10 AWG THHN/THWN-2	NA	8 AWG THHN/THWN-2	1" SCH 40 PVC (BELOW GROUND) 1" SCH 80 PVC (ABOVE GROUND)
3	Inverter Output	(2) 8 AWG THHN/THWN-2	(1) 10 AWG THHN/THWN-2	8 AWG THHN/THWN-2	3/4 EMT
4	Battery Output	(2) 6 AWG THHN/THWN-2	(1) 6 AWG THHN/THWN-2	8 AWG THHN/THWN-2	3/4 EMT
5	Backup Panel Feeder / aGATE Feeder	(2) 3/0 AWG THHN/THWN-2	(1) 3/0 AWG THHN/THWN-2	4 AWG THHN/THWN-2	2 EMT
6	Non Backup Panel Feeder	(2) 3 AWG THHN/THWN-2	(1) 3 AWG THHN/THWN-2	8 AWG THHN/THWN-2	1-1/4 EMT

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SHEET
ELECTRICAL

REV: C 11/19/2025

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PV-4.0

! WARNING
ELECTRICAL SHOCK HAZARD
TERMINALS ON LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): NEC 2023: 690.13(B), 705.20(7), 706.15(C)

! WARNING
THREE POWER SUPPLY SOURCES: UTILITY GRID, BATTERY AND PV SOLAR ELECTRIC SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN SERVICE PANEL.
PER CODE(S): NEC 2023: 705.12(C)

! WARNING
POWER SOURCE OUTPUT CONNECTION
DO NOT RELOCATE THIS OVERCURRENT DEVICE

LABEL LOCATION:
ADJACENT TO PV BREAKER AND ESS OCPD (IF APPLICABLE).
PER CODE(S): NEC 2023: 705.12(B)(2)

! WARNING
THIS EQUIPMENT FED BY MULTIPLE SOURCES. TOTAL RATING OF ALL OVERCURRENT DEVICES EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE SHALL NOT EXCEED AMPACITY OF BUSBAR

LABEL LOCATION:
PV LOAD CENTER (IF APPLICABLE) AND ANY PANEL THAT UTILIZES "THE SUM OF BREAKERS RULE".
PER CODE(S): NEC 2023: 705.12 (B)(3)

PHOTOVOLTAIC DC DISCONNECT

LABEL LOCATION:
DC DISCONNECT
(PER CODE: IFC.60.11.3 IFC 605.11.1.4 NEC 690.15, NEC 690.13(B) & NEC 690.14C.2.)

INVERTER 1

PHOTOVOLTAIC DC DISCONNECT
MAXIMUM SYSTEM VOLTAGE: 480 VDC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): NEC 2023: 690.7(D)

INVERTER 2

PHOTOVOLTAIC DC DISCONNECT
MAXIMUM SYSTEM VOLTAGE: 480 VDC

LABEL LOCATION:
INVERTER(S), DC DISCONNECT(S).
PER CODE(S): NEC 2023: 690.7(D)

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

LABEL LOCATION:
INSTALLED WITHIN 3' OF RAPID SHUT DOWN SWITCH PER CODE(S): NEC 2023: 690.12(D)(2), IFC 2021: 1204.5.3

WARNING: PHOTOVOLTAIC POWER SOURCE

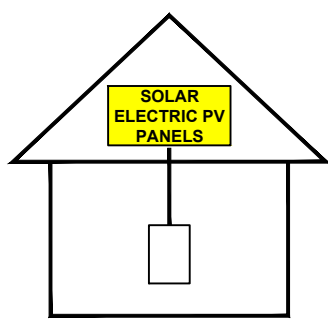
LABEL LOCATION:
INTERIOR AND EXTERIOR DC CONDUIT EVERY 10 FT, AT EACH TURN, ABOVE AND BELOW PENETRATIONS, ON EVERY JB/PULL BOX CONTAINING DC CIRCUITS.
PER CODE(S): NEC 2023: 690.31(D)(2)

4"

SOLAR PV SYSTEM EQUIPPED WITH RAPID SHUTDOWN

3"

TURN RAPID SHUTDOWN SWITCH TO THE "OFF" POSITION TO SHUT DOWN PV SYSTEM AND REDUCE SHOCK HAZARD IN THE ARRAY.



LABEL LOCATION:
ON OR NO MORE THAT 1 M (3 FT) FROM THE SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED.
PER CODE(S): NEC 2023: 690.12(D)

NOTES AND SPECIFICATIONS:

- SIGNS AND LABELS SHALL MEET THE REQUIREMENTS OF THE NEC 2023 ARTICLE 110.21(B), UNLESS SPECIFIC INSTRUCTIONS ARE REQUIRED BY SECTION 690, OR IF REQUESTED BY THE LOCAL AHJ.
- SIGNS AND LABELS SHALL ADEQUATELY WARN OF HAZARDS USING EFFECTIVE WORDS, COLORS AND SYMBOLS.
- LABELS SHALL BE PERMANENTLY AFFIXED TO THE EQUIPMENT OR WIRING METHOD AND SHALL NOT BE HAND WRITTEN.
- LABEL SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.
- SIGNS AND LABELS SHALL COMPLY WITH ANSI Z535.4-2011, PRODUCT SAFETY SIGNS AND LABELS, UNLESS OTHERWISE SPECIFIED.
- DO NOT COVER EXISTING MANUFACTURER LABELS.

Emergency responders, for 24 hour emergency service call:
1.833.607.6937 ext. 0
For customer questions or service issues, call our Customer Care team at:
1.855.478.6786
For customers in case of emergency, call:
911
This solar PV system is owned and operated by:
SUNRUN
*Prior authorization from Sunrun is required for any maintenance/service activity.HIC 180120

LABEL LOCATION:
MAIN SERVICE DISCONNECT

! CAUTION
ENERGY STORAGE SYSTEM
PREMISES WIRING MAY REMAIN ENERGIZED AFTER LOSS OF UTILITY POWER

LABEL LOCATION:
INVERTER(S), AC/DC DISCONNECT(S), AC COMBINER PANEL (IF APPLICABLE).
PER CODE(S): NEC 2023: 706.15(C)

ENERGY STORAGE SYSTEM DISCONNECT
NOMINAL ESS VOLTAGE: 120/240 VAC

LABEL LOCATION:
ENERGY STORAGE SYSTEM
PER CODE(S): NEC 2023: 706.15(C)

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Jean Claude IRADUKUNDA

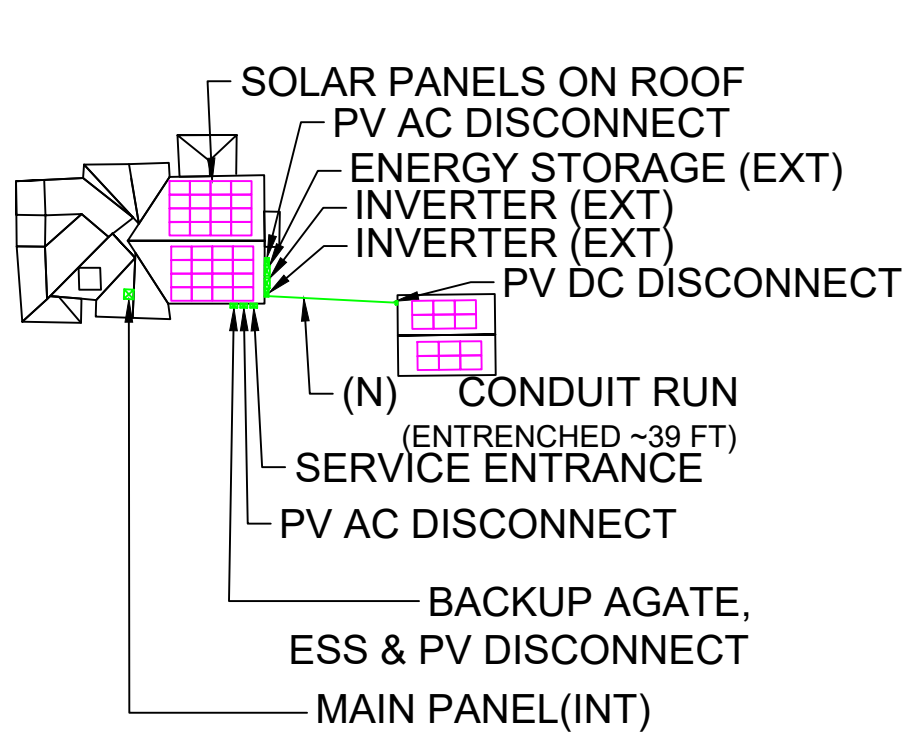
SHEET SIGNAGE

REV: C 11/19/2025

PAGE PV-5.0

CAUTION:

MULTIPLE SOURCES OF POWER



111 FLORIDA ST, SPRINGFIELD, MA, 01109

PER CODE(S): NEC 2023 : 705.10

LABELING FORMAT

LABELS SHALL BE RED PLASTIC MATERIAL WITH ENGRAVED WHITE LETTERS MADE OF DURABLE ADHESIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT. LETTERS SHALL BE MINIMUM 3/8" IN SIZE.

SUNRUN

#180120

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111 FLORIDA ST, SPRINGFIELD,
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221R-111HILL

DESIGNER: (415) 580-6920 ex3
Jean Claude IRADUKUNDA

SHEET
SIGNAGE 2

REV: C 11/19/2025

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68 ft

68 ft

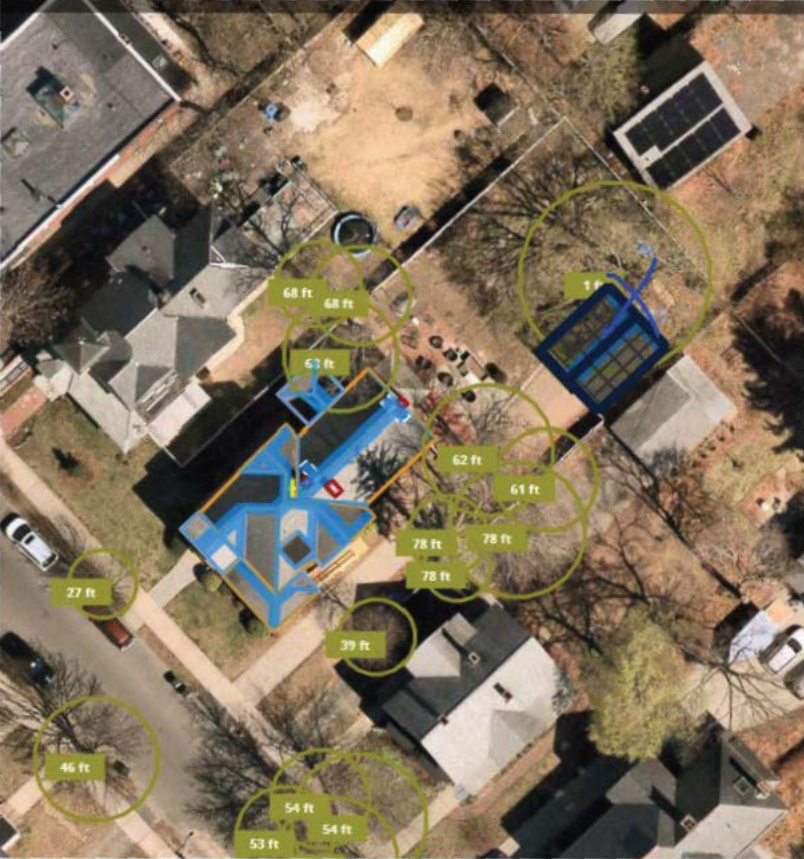
1 ft

1 ft

1 ft

1 ft

39 ft



DEEP BLUE 3.0

Mono

405 W MBB
Half-cell Black Module
JAM54S31 380-405/MR/1000V Series

Introduction

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

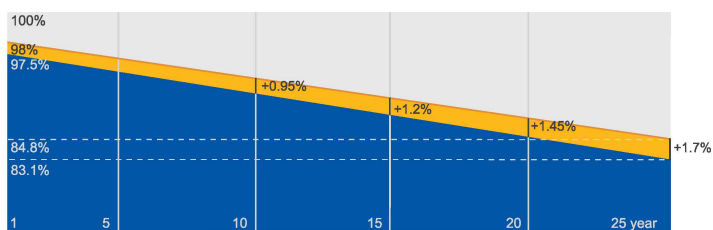


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation
Over 25 years



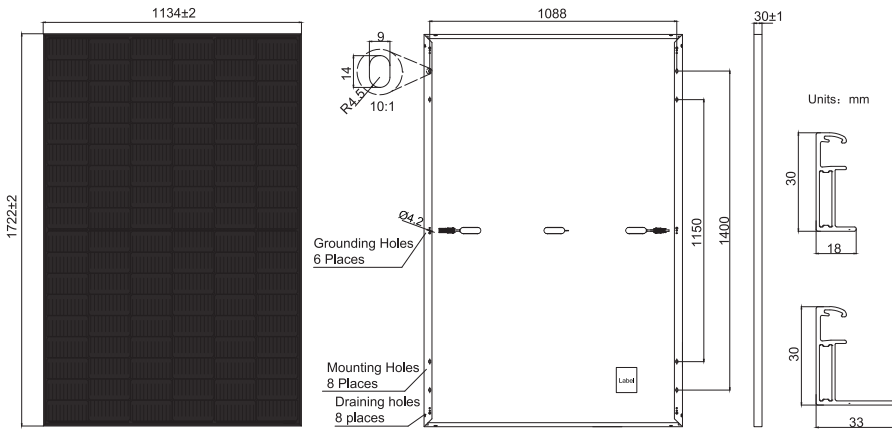
■ New linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems



MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	21.5kg±3%
Dimensions	1722±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	108(6x18)
Junction Box	IP68, 3 diodes
Connector	Genuine MC4 QC4.10
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM54S31 -380/MR/1000V	JAM54S31 -385/MR/1000V	JAM54S31 -390/MR/1000V	JAM54S31 -395/MR/1000V	JAM54S31 -400/MR/1000V	JAM54S31 -405/MR/1000V
Rated Maximum Power(Pmax) [W]	380	385	390	395	400	405
Open Circuit Voltage(Voc) [V]	36.58	36.71	36.85	36.98	37.07	37.23
Maximum Power Voltage(Vmp) [V]	30.28	30.46	30.64	30.84	31.01	31.21
Short Circuit Current(Isc) [A]	13.44	13.52	13.61	13.70	13.79	13.87
Maximum Power Current(Imp) [A]	12.55	12.64	12.73	12.81	12.90	12.98
Module Efficiency [%]	19.5	19.7	20.0	20.2	20.5	20.7
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α _{Isc})	+0.045%/°C					
Temperature Coefficient of Voc(β _{Voc})	-0.275%/°C					
Temperature Coefficient of Pmax(γ _{Pmp})	-0.350%/°C					
STC	Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G					

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types. Measurement tolerance at STC: Pmax ±3%, Voc ±3% and Isc ±4%.

ELECTRICAL PARAMETERS AT NOCT

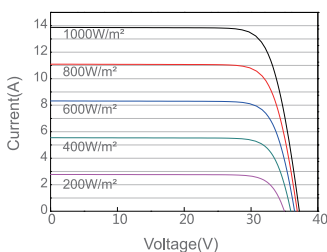
TYPE	JAM54S31 -380/MR/1000V	JAM54S31 -385/MR/1000V	JAM54S31 -390/MR/1000V	JAM54S31 -395/MR/1000V	JAM54S31 -400/MR/1000V	JAM54S31 -405/MR/1000V
Rated Max Power(Pmax) [W]	286	290	294	298	302	306
Open Circuit Voltage(Voc) [V]	34.36	34.49	34.62	34.75	34.88	35.12
Max Power Voltage(Vmp) [V]	28.51	28.68	28.87	29.08	29.26	29.47
Short Circuit Current(Isc) [A]	10.75	10.82	10.89	10.96	11.03	11.10
Max Power Current(Imp) [A]	10.03	10.11	10.18	10.25	10.32	10.38
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

OPERATING CONDITIONS

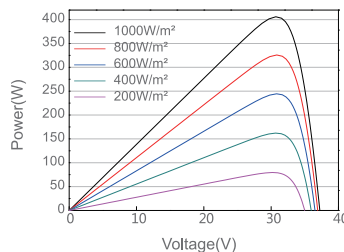
Maximum System Voltage	1000V DC(IEC)
Operating Temperature	-40 C ~+85 C
Maximum Series Fuse Rating	25A
Maximum Static Load,Front* Maximum Static Load,Back*	3600Pa, 1.5 1600Pa, 1.5
NOCT	45±2 C
Safety Class	Class II
Fire Performance	UL Type 1

CHARACTERISTICS

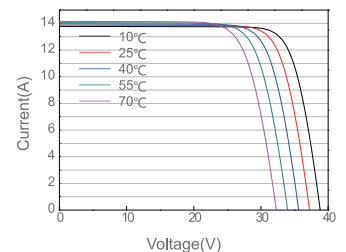
Current-Voltage Curve JAM54S31-405/MR/1000V



Power-Voltage Curve JAM54S31-405/MR/1000V



Current-Voltage Curve JAM54S31-405/MR/1000V



DESCRIPTION:
SNAPNRACK, TDS, ALPHATRACK (USA)

DOC NUMBER:
 SNR-DC-01452

SnapNrack®

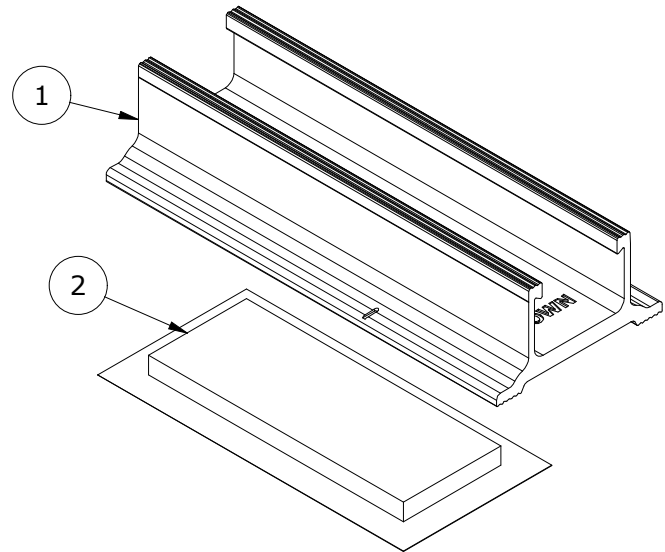
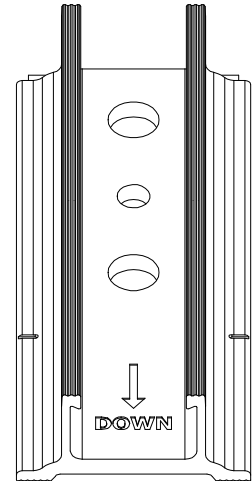
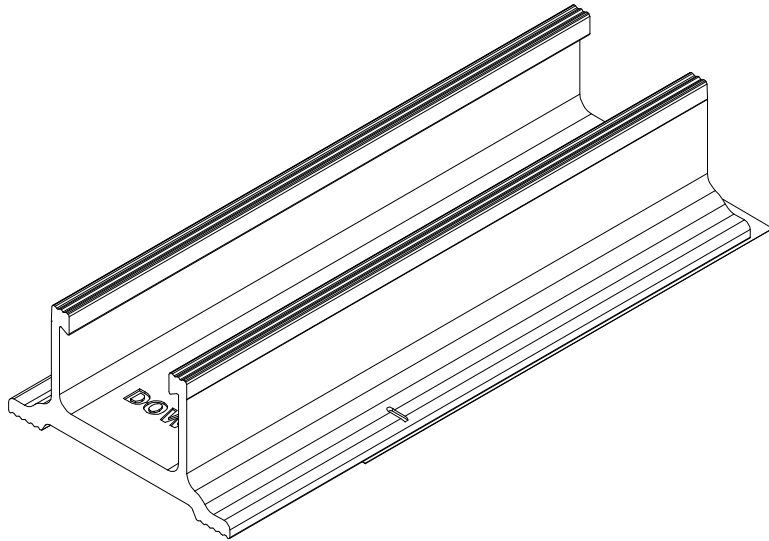
PART NUMBER(S):
 242-10063-USA

DRAWN BY:
 H.WULFEKOETTER

REV: **A** DATE:
 11/21/2024

SNR SOLAR LLC
 775 FIERO LANE, SUITE 200
 SAN LUIS OBISPO, CA 93401 USA
 EMAIL: CONTACT@SNAPNRACK.COM
THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL AND PROPRIETARY. ANY REPRODUCTION, DISCLOSURE, OR USE THEREOF IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF SNR SOLAR LLC.

UNITS: IN, LB, DEG [MM, KG, DEG] SHEET: 1:2



PARTS LIST

ITEM	QTY	DESCRIPTION
1	1	SNAPNRACK, ALPHATRACK, MILL
2	1	SNAPNRACK, BUTYL PAD, 3.75IN X 1.50IN X .25IN

MATERIALS: 6000 SERIES ALUMINUM, BUTYL

DESIGN LOAD (LBS): VARIES, REFER TO SNAPNRACK ENGINEERING

ULTIMATE LOAD (LBS): VARIES, REFER TO SNAPNRACK ENGINEERING

TORQUE SPECIFICATION: N/A FT-LBS

CERTIFICATION: UL 2703, FILE E359313, DOMESTIC CONTENT COMPLIANT

WEIGHT (LBS): 0.43

DESCRIPTION:
SNAPNRACK, TDS, ALPHATRACK (USA)

DOC NUMBER:
SNR-DC-01452

SnapNrack®

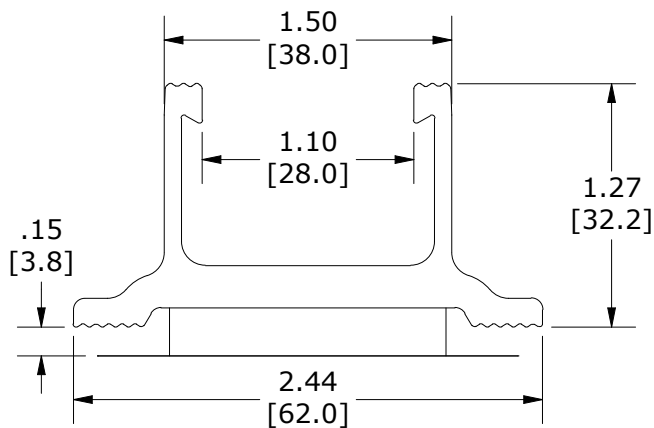
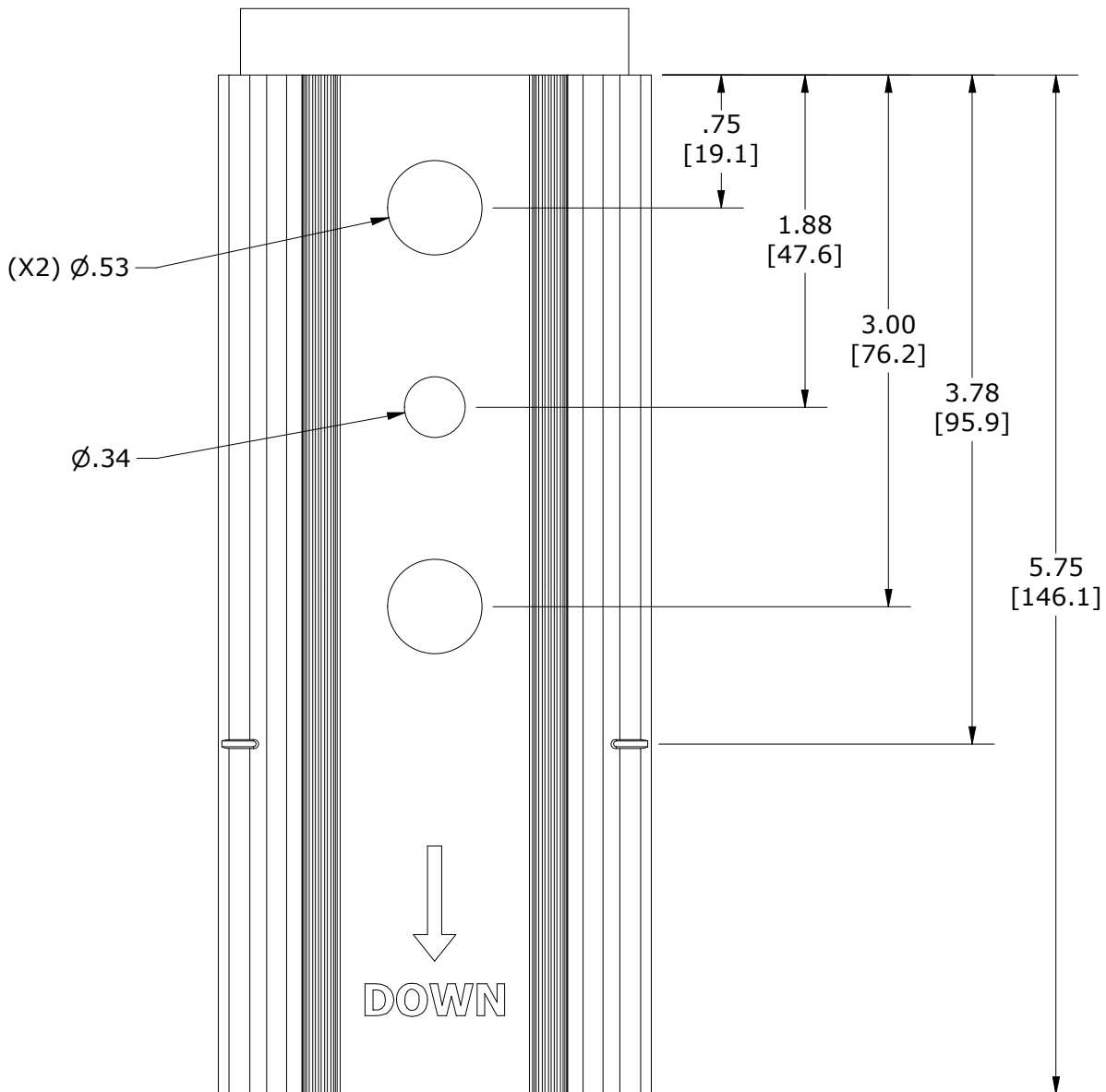
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DRAWN BY:
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11/21/2024

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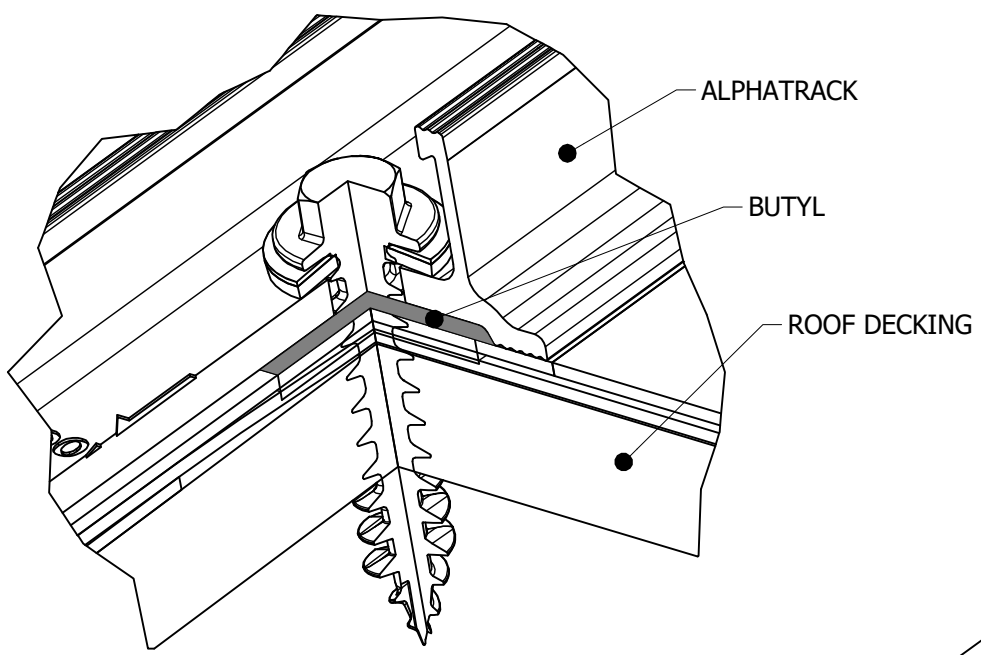
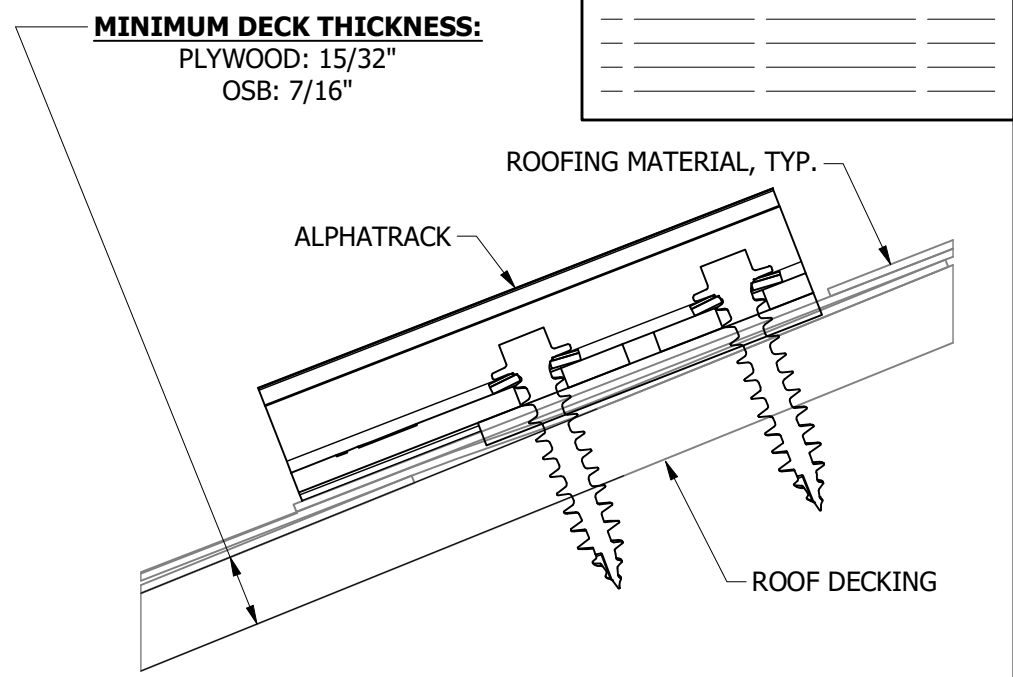
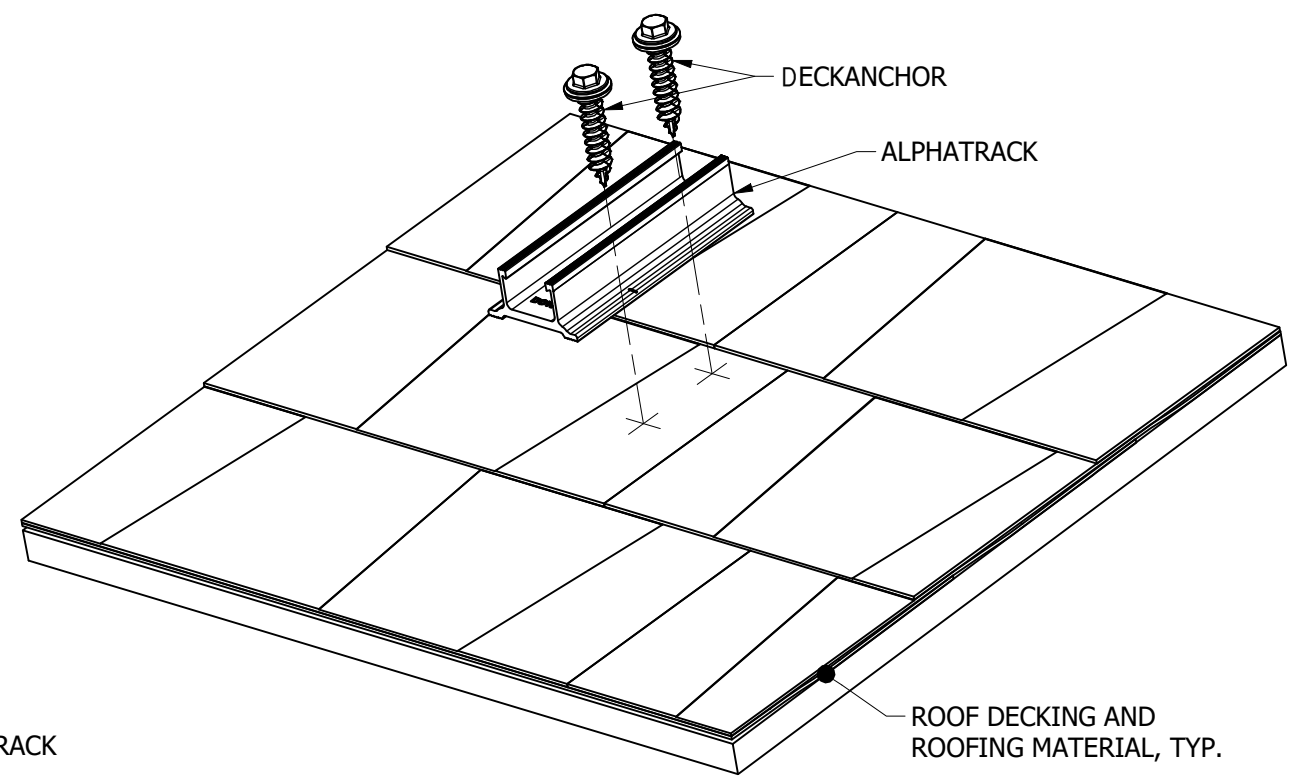
UNITS: IN, LB, DEG [MM, KG, DEG] SHEET: 2:2



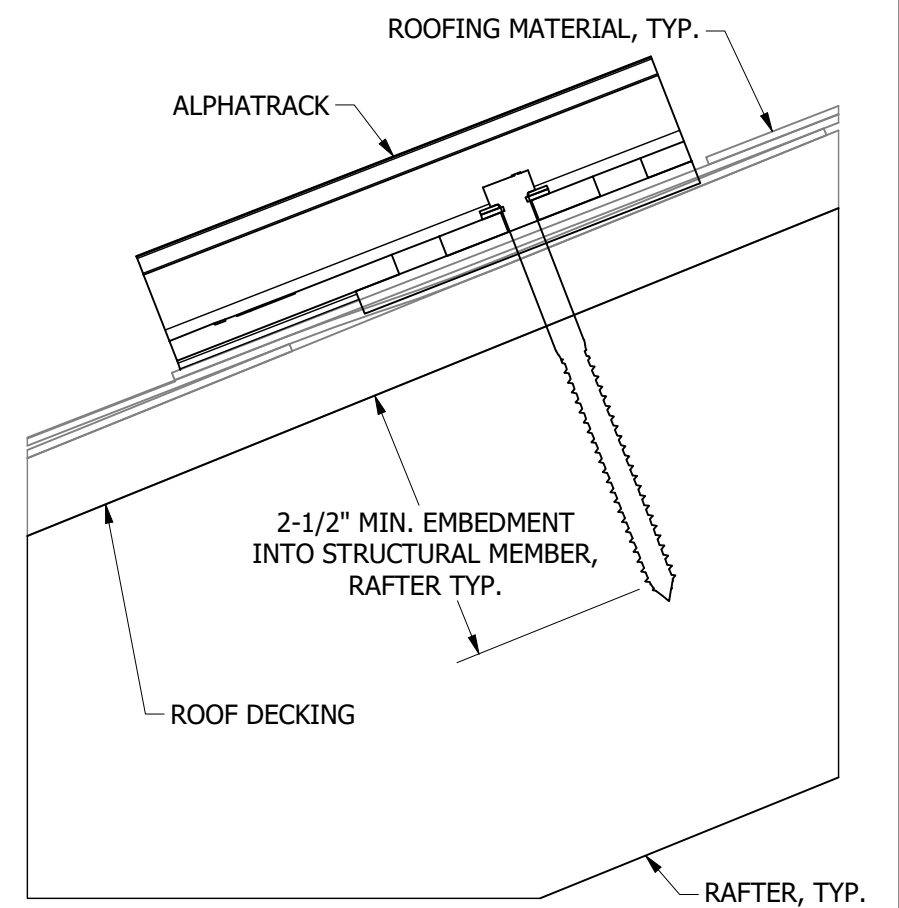
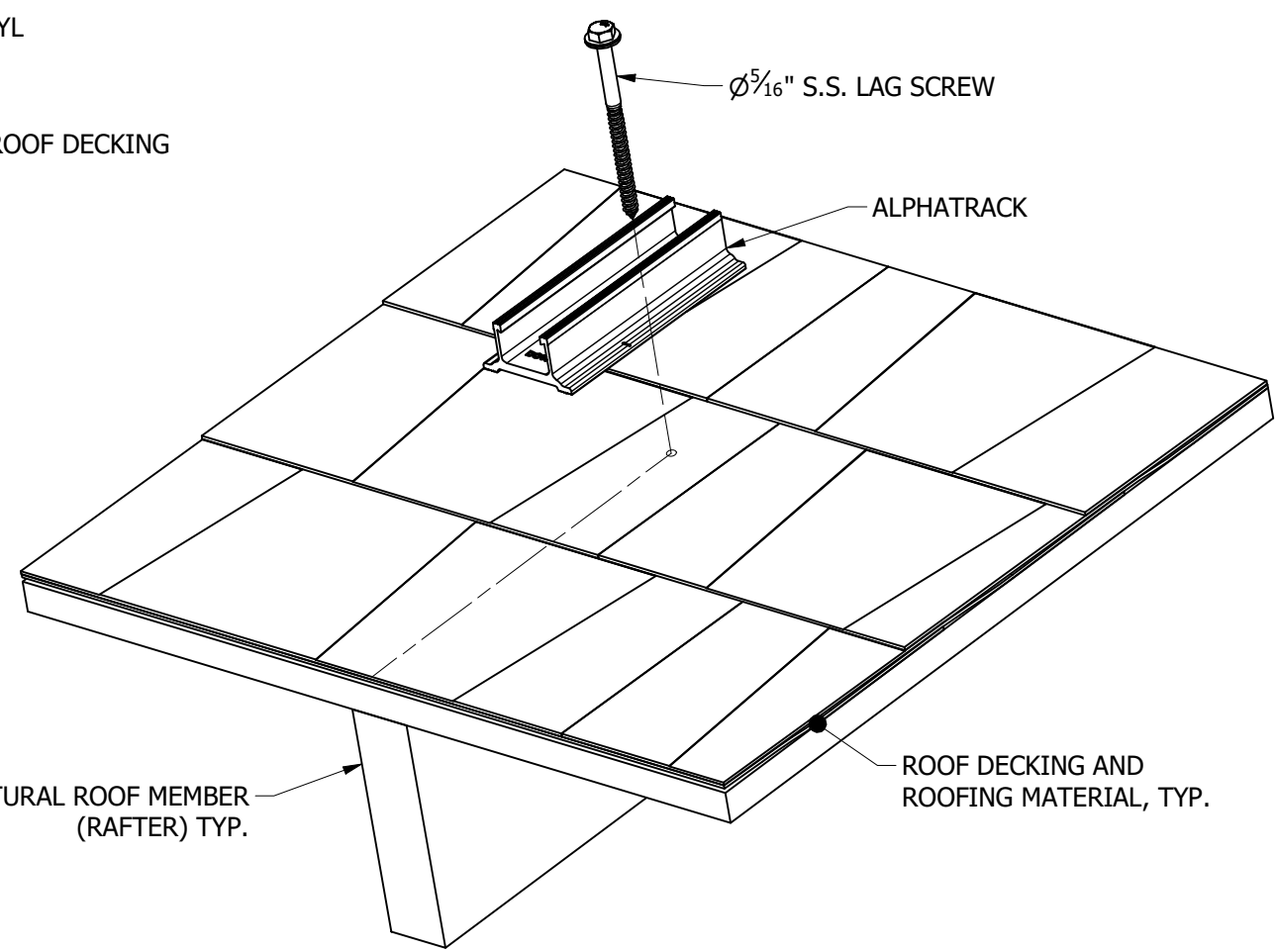
FOR SNAPRACK ENGINEERING TO APPLY, THE EMBEDMENT CRITERIA SHOWN HEREIN MUST BE MET (IF CRITERIA CANNOT BE MET OR SPANS ARE NOT SUFFICIENT, CONTACT SNAPRACK FOR SUPPORT).

REFER TO SNAPRACK INSTALLATION MANUAL FOR $\frac{5}{16}$ " \varnothing HARDWARE TORQUE SPECIFICATIONS. REFER TO MANUFACTURER SPECIFICATIONS FOR OTHER FASTENER TORQUE REQUIREMENTS.

REVISION:		
A	8/9/2024	DC004258 MKW
A	9/16/2024	DC004258 MKW



**BUTYL DETAIL
(DECKANCHOR SHOWN)**



COMPLETED RAFTER INSTALLATION

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

POWER OPTIMIZER



PV power optimization at the module-level

- Specifically designed to work with SolarEdge inverters
- Up to 25% more energy
- Superior efficiency (99.5%)
- Mitigates all types of module mismatch losses, from manufacturing tolerance to partial shading
- Flexible system design for maximum space utilization
- Fast installation with a single bolt
- Next generation maintenance with module-level monitoring
- Meets NEC requirements for arc fault protection (AFCI) and Photovoltaic Rapid Shutdown System (PVRSS)
- Module-level voltage shutdown for installer and firefighter safety

Power Optimizer

For North America

P320 / P340 / P370 / P400 / P401 / P405 / P485 / P505

Optimizer model (typical module compatibility)	P320 (for 60-cell modules)	P340 (for high-power 60-cell modules)	P370 (for higher-power 60 and 72-cell modules)	P400 (for 72 & 96-cell modules)	P401 (for high power 60 and 72 cell modules)	P405 (for high-voltage modules)	P485 (for high-voltage modules)	P505 (for higher current modules)	
INPUT									
Rated Input DC Power ⁽¹⁾	320	340	370	400		405	485	505	W
Absolute Maximum Input Voltage (Voc at lowest temperature)	48		60	80	60	125 ⁽²⁾		83 ⁽²⁾	Vdc
MPPT Operating Range	8 - 48		8 - 60	8 - 80	8-60	12.5 - 105		12.5 - 83	Vdc
Maximum Short Circuit Current (Isc)	11			10.1	11.75	11		14	Adc
Maximum DC Input Current	13.75			12.5	14.65	12.5		17.5	Adc
Maximum Efficiency	99.5								%
Weighted Efficiency	98.8							98.6	%
Overtoltage Category	II								

OUTPUT DURING OPERATION (POWER OPTIMIZER CONNECTED TO OPERATING SOLAREEDGE INVERTER)

Maximum Output Current	15								Adc
Maximum Output Voltage	60				85				Vdc

OUTPUT DURING STANDBY (POWER OPTIMIZER DISCONNECTED FROM SOLAREEDGE INVERTER OR SOLAREEDGE INVERTER OFF)

Safety Output Voltage per Power Optimizer	1 ± 0.1								Vdc
---	---------	--	--	--	--	--	--	--	-----

STANDARD COMPLIANCE

EMC	FCC Part15 Class B, IEC61000-6-2, IEC61000-6-3							
Safety	IEC62109-1 (class II safety), UL1741							
Material	UL94 V-0, UV Resistant							
RoHS	Yes							

INSTALLATION SPECIFICATIONS

Maximum Allowed System Voltage	1000								Vdc
Compatible inverters	All SolarEdge Single Phase and Three Phase inverters								
Dimensions (W x L x H)	129 x 153 x 27.5 / 5.1 x 6 x 1.1		129 x 153 x 33.5 / 5.1 x 6 x 1.3	129 x 153 x 29.5 / 5.1 x 6 x 1.16	129 x 159 x 49.5 / 5.1 x 6.3 x 1.9		129 x 162 x 59 / 5.1 x 6.4 x 2.3		mm / in
Weight (including cables)	630 / 1.4		750 / 1.7	655 / 1.5	845 / 1.9		1064 / 2.3		gr / lb
Input Connector	MC4 ⁽³⁾						Single or dual MC4 ⁽³⁾⁽⁴⁾	MC4 ⁽³⁾	
Input Wire Length	0.16 / 0.52			0.16 or 0.9 / 0.52 or 2.95 ⁽⁵⁾		0.16 / 0.52			m / ft
Output Wire Type / Connector	Double Insulated / MC4								
Output Wire Length	0.9 / 2.95		1.2 / 3.9						m / ft
Operating Temperature Range ⁽⁶⁾	-40 - +85 / -40 - +185								°C / °F
Protection Rating	IP68 / NEMA6P								
Relative Humidity	0 - 100								%

(1) Rated power of the module at STC will not exceed the optimizer "Rated Input DC Power". Modules with up to +5% power tolerance are allowed

(2) NEC 2017 requires max input voltage be not more than 80V

(3) For other connector types please contact SolarEdge

(4) For dual version for parallel connection of two modules use P485-4NMDMRM. In the case of an odd number of PV modules in one string, installing one P485 dual version power optimizer connected to one PV module. When connecting a single module seal the unused input connectors with the supplied pair of seals.

(5) Longer inputs wire length are available for use. For 0.9m input wire length order P401-xxxLxxx.

(6) For ambient temperature above +85°C / +185°F power de-rating is applied. Refer to Power Optimizers Temperature De-Rating Technical Note for more details.

PV System Design Using a SolarEdge Inverter ⁽⁷⁾⁽⁸⁾	Single Phase HD-Wave	Single phase	Three Phase for 208V grid	Three Phase for 277/480V grid	
Minimum String Length (Power Optimizers)	P320, P340, P370, P400, P401	8	10	18	
	P405, P485, P505	6	8	14	
Maximum String Length (Power Optimizers)		25	25	50 ⁽⁹⁾	
Maximum Power per String	5700 (6000 with SE7600-US - SE11400-US)	5250	6000 ⁽¹⁰⁾	12750 ⁽¹¹⁾	W
Parallel Strings of Different Lengths or Orientations	Yes				

(7) For detailed string sizing information refer to: http://www.solaredge.com/sites/default/files/string_sizing_na.pdf

(8) It is not allowed to mix P405/P485/P505 with P320/P340/P370/P400/P401 in one string

(9) A string with more than 30 optimizers does not meet NEC rapid shutdown requirements; safety voltage will be above the 30V requirement

(10) For 208V grid: it is allowed to install up to 6,500W per string when the maximum power difference between each string is 1,000W

(11) For 277/480V grid: it is allowed to install up to 15,000W per string when the maximum power difference between each string is 2,000W

Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US /
SE10000H-US / SE11400H-US⁽¹⁾



Optimized battery storage with HD-Wave technology

- Record-breaking 99% weighted efficiency with 200% DC oversizing
- Small, lightweight, and easy to install
- Modular design, future ready with optional upgrades to:
 - DC-coupled storage for full or partial home backup
 - Built-in consumption monitoring
 - Direct connection to the SolarEdge smart EV charger
- Multi-inverter, scalable storage solution
 - With enhanced battery power up to 10kW
- Integrated arc fault protection and rapid shutdown for NEC 2014, NEC 2017 and NEC 2020, per article 690.11 and 690.12
- Embedded revenue grade production data, ANSI C12.20 Class 0.5

/ Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
OUTPUT - AC ON GRID							
Rated AC Power	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
Maximum AC Power Output	3000	3800 @ 240V 3300 @ 208V	6000 @ 240V 5000 @ 208V	7600	10000	11400 @ 240V 10000 @ 208V	W
AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5 ⁽²⁾						Hz
Maximum Continuous Output Current @ 240V	12.5	16	25	32	42	47.5	A
Maximum Continuous Output Current @ 208V	-	16	24	-	-	48.5	A
GFDI Threshold	1						A
Total Harmonic Distortion (THD)	<3						%
Power Factor	1, adjustable -0.85 to 0.85						
Utility Monitoring, Islanding Protection, Country Configurable Thresholds	Yes						
Charge Battery from AC (if allowed)	Yes						
Typical Nighttime Power Consumption	<2.5						W
OUTPUT - AC BACKUP⁽³⁾							
Rated AC Power in Backup Operation ⁽⁴⁾	3000	3800 7600*	6000	7600 10300*	10000	10300	W
AC L-L Output Voltage Range in Backup	211 - 264						Vac
AC L-N Output Voltage Range in Backup	105 - 132						Vac
AC Frequency Range in Backup (min - nom - max)	55 - 60 - 65						Hz
Maximum Continuous Output Current in Backup Operation	12.5	16 32*	25	32 43*	42	43	A
GFDI	1						A
THD	<5						%
OUTPUT - SMART EV CHARGER AC							
Rated AC Power	9600						W
AC Output Voltage Range	211 - 264						Vac
On-Grid AC Frequency Range (min - nom - max)	59.3 - 60 - 60.5						Hz
Maximum Continuous Output Current @240V (grid, PV and battery)	40						Aac
INPUT - DC (PV AND BATTERY)							
Transformer-less, Ungrounded	Yes						
Max Input Voltage	480						Vdc
Nom DC Input Voltage	380						Vdc
Reverse-Polarity Protection	Yes						
Ground-Fault Isolation Detection	600kΩ Sensitivity						
INPUT - DC (PV)							
Maximum DC Power @ 240V	6000	7600 15200*	12000	15200 22800*	22000	22800	W
Maximum DC Power @ 208V	-	6600	10000	-	-	20000	W
Maximum Input Current ⁽⁵⁾ @ 240V	8.5	10.5 20*	16.5	20 31*	27	31	Adc
Maximum Input Current ⁽⁵⁾ @ 208V	-	9	13.5	-	-	27	Adc
Max. Input Short Circuit Current	45						Adc
Maximum Inverter Efficiency	99	99.2					%
CEC Weighted Efficiency	99					99 @ 240V 98.5 @ 208V	%
2-pole Disconnection	Yes						

* Supported with PN SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx

(1) These specifications apply to inverters with part numbers SExxxxH-USMMxxxxxx or SExxxxH-USMNxxxxxx and connection unit model number DCD-1PH-US-PxH-F-x

(2) For other regional settings please contact SolarEdge support

(3) Not designed for standalone applications and requires AC for commissioning. Backup functionality is only supported for 240V grid

(4) Rated AC power in Backup Operation are valid for installations with multiple inverters. For a single backup inverter operation, rated AC power in Backup is 90% of the value stated

(5) A higher current source may be used; the inverter will limit its input current to the values stated

/ Single Phase Energy Hub Inverter with Prism Technology

For North America

SE3000H-US / SE3800H-US / SE6000H-US / SE7600H-US / SE10000H-US / SE11400H-US⁽¹⁾

	SE3000H-US	SE3800H-US	SE6000H-US	SE7600H-US	SE10000H-US	SE11400H-US	UNITS
INPUT - DC (BATTERY)							
Supported Battery Types	SolarEdge Energy Bank, LG RESU Prime ⁽⁶⁾						
Number of Batteries per Inverter	Up to 3 SolarEdge Energy Bank, up to 2 LG RESU Prime						
Continuous Power ⁽⁷⁾	6000	7600	10000				W
Peak Power ⁽⁷⁾	6000	7600	10000				W
Max Input Current	16	20	26.5				Adc
2-pole Disconnection	Yes						
SMART ENERGY CAPABILITIES							
Consumption Metering	Built - in ⁽⁸⁾						
Backup & Battery Storage	With Backup Interface (purchased separately) for service up to 200A; Up to 3 inverters						
EV Charging	Direct connection to Smart EV charger						
ADDITIONAL FEATURES							
Supported Communication Interfaces	RS485, Ethernet, Cellular ⁽⁹⁾ , Wi-Fi (optional), SolarEdge Energy Net (optional)						
Revenue Grade Metering, ANSI C12.20	Built - in ⁽⁸⁾						
Integrated AC, DC and Communication Connection Unit	Yes						
Inverter Commissioning	With the SetApp mobile application using built-in Wi-Fi Access Point for local connection						
DC Voltage Rapid Shutdown (PV and Battery)	Yes, according to NEC 2014, NEC 2017 and NEC 2020 690.12						
STANDARD COMPLIANCE							
Safety	UL1741, UL1741 SA, UL1741 PCS, UL1699B, UL1998, UL9540, CSA 22.2						
Grid Connection Standards	IEEE1547, Rule 21, Rule 14H						
Emissions	FCC part 15 class B						
INSTALLATION SPECIFICATIONS							
AC Output and EV AC Output Conduit Size / AWG Range	1" maximum / 14-4 AWG						
DC Input (PV and Battery) Conduit Size / AWG Range	1" maximum / 14-6 AWG						
Dimensions with Connection Unit (H x W x D)	17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174		17.7 x 14.6 x 6.8 / 450 x 370 x 174		in / mm
Weight with Connection Unit	26 / 11.8		26 / 11.8		30.2 / 13.7		lb / kg
Noise	< 25	< 25 < 50*	< 25	< 50			dBA
Cooling	Natural Convection						
Operating Temperature Range	-40 to +140 / -40 to +60 ⁽¹⁰⁾						°F / °C
Protection Rating	NEMA 4						

(6) The part numbers SExxxxH-USxMxxxx only support the SolarEdge Energy Bank. The part numbers SExxxxH-USxNxxxx support both SolarEdge Energy Bank and LG RESU Prime batteries
Requires supporting inverter firmware

(7) Discharge power is limited up to the inverter rated AC power for on-grid and backup applications

(8) For consumption metering current transformers should be ordered separately: SECT-SPL-225A-T-20 or SEACT0750-400NA-20 units per box. Revenue grade metering is only for production metering

(9) Information concerning the Data Plan's terms & conditions is available in the following link:

<https://www.solaredge.com/sites/default/files/se-communication-plan-terms-and-conditions-eng.pdf>

(10) Full power up to at least 50°C / 122°F; for power de-rating information refer to: <https://www.solaredge.com/sites/default/files/se-temperature-derating-note-na.pdf>





115250036
ABDI GENYO
172 THOMPSON ST
SPRINGFIELD, MA 01109

052200022
ALEXANDER MICHAEL T &
106 FLORIDA ST
SPRINGFIELD, MA 01109

052200066
BOONE MEREDITH G
97 FLORIDA ST
SPRINGFIELD, MA 01109

115250039
CRUMP LORRAINE A
184 THOMPSON ST
SPRINGFIELD, MA 01109

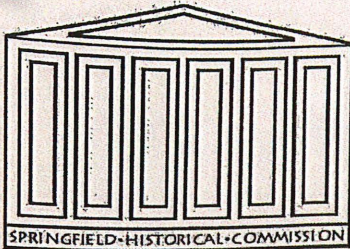
052200064
GARCIA IRIS A
117 FLORIDA ST
SPRINGFIELD, MA 01109

052200065
HILL DERRICK A & LILLIAN T
111 FLORIDA STREET
SPRINGFIELD, MA 01109

115250038
JOHNSON VIVIANA &
178 THOMPSON ST
SPRINGFIELD, MA 01109

052200021
LANE LIAM ROBERT
12 SEARLE ST
PROVIDENCE, RI 02905

052200024
RIVERA KARLA M
110 FLORIDA ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 172 Thompson St Springfield MA 01109

Incomplete application will **NOT** be accepted and scheduled. A complete and valid application **MUST** contain the following information:

- 1) The type of Certificate the petitioner is seeking must be indicated (see Page 1);
- 2) The property owner's signature must appear on the application;
- 3) Relevant and applicable PHOTOGRAPHS, MATERIALS and PLANS specified on the Application

CHECKLIST

APPLICATION

Please complete the attached application and **PROVIDE ADDITIONAL PAGES IF NEEDED.**

PICTURES OF EXISTING CONDITIONS

Please provide color photographs of the project area's current condition. For example, should the project pertain to replacing windows, provide a photograph of what the current windows looks like.

RENDERING OF PROPOSED PROJECT UPON COMPLETION

Please provide a rendering of what the project will look like upon completion. For some products, such as siding, windows, doors, solar powered panels, HVAC systems (including heat pumps), this may include product details from the manufacturer and/or store or a brochure. For paint color-related projects, a sample of the color may suffice. For new construction, renderings from an architect are required.

PRODUCT SPECIFICATIONS

Please provide specifications for any products (e.g. doors, windows, siding, solar powered panels, HVAC systems, etc.) to be utilized during the project. Project details from the manufacturer and/or store, or a brochure, will suffice. *If available, please bring physical samples of the product to the meeting date.*

LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY

LOCAL HISTORIC DISTRICT:

McLeight

DECISION:

DATE RECEIVED:

December 10, 2025

DECISION DATE:

HEARING DATE:

January 15, 2026

DATE DISCUSSED (NO HEARING):

DATE NOTICE POSTED:

December 30, 2025

WAIVED BY COMMISSION:

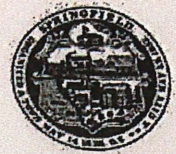
DATE NOTICE MAILED:

December 30, 2025

WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
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APPLICATION TYPE

PROPERTY ADDRESS: 172 Thompson St Springfield MA 01109

APPLICATION TYPE (Select Application Type)

CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.

CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.

CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).

ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.

PRESERVATION AGREEMENT

Select this type of application if the structure contains a Preservation Restriction.

PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.

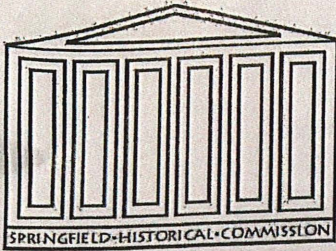
MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).

SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00)



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 177 Thompson St Springfield MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Genyo Abdi		
OWNER ADDRESS: <input checked="" type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: 413-883-5964	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS: Abdirashidali73@gmail.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE: 11525-0036	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	

PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED):

Replacing old roof
Roof no good.

PROPOSED MODIFICATIONS

(Please check all that apply)

- Windows (see Page 3)
- Doors (see Page 4)
- Siding (see Page 5)
- Roofing (see Page 6)
- Solar (see Page 6)
- Signs (see Page 7)
- Heat Pumps (see page 7)
- Paint (see Page 8)
- Renovations (e.g. Porches) (see Page 8)
- New Construction (all of the above)
- Other Projects (see Page 9):

JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

Genyo Abdi
PROPERTY OWNER'S SIGNATURE

12/14/25
DATE

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

EXISTING

PROPOSED

ROOF STYLE (e.g. gable, hip, mansard, etc):

Full Shingle

Asphutte Shingle

MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):

asphalt Shingle

Asphalt Shingle.

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:

There was damages to the roof water leak. Insurance company came out to check out the roof in order to get the house insured. They stated roof is no good.

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:

Roof needs to be replaced in order insurance to not to be void canceled.

ADDITIONAL INFORMATION:

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

YES (PLEASE PROVIDE MORE INFO ABOVE)

NO

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):

NUMBER OF SOLAR POWERED PANELS:

SOLAR MANUFACTURER:

LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):

LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):

LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):

LOCATION OF CONDUIT (e.g. side of building, inside the house):

PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):











115250036
ABDI GENYO
172 THOMPSON ST
SPRINGFIELD, MA 01109

115250034
BODISON GREGORY
168 THOMPSON ST
SPRINGFIELD, MA 01109

052200069
BOONE JAMES A & MEREDITH
97 FLORIDA ST
SPRINGFIELD, MA 01109

052200066
BOONE MEREDITH G
97 FLORIDA ST
SPRINGFIELD, MA 01109

115250048
BRANDON SUSAN
179 THOMPSON ST
SPRINGFIELD, MA 01109

115250050
CURRAN SHAINA
167 THOMPSON ST
SPRINGFIELD, MA 01109

052200065
HILL DERRICK A & LILLIAN T
111 FLORIDA STREET
SPRINGFIELD, MA 01109

115250038
JOHNSON VIVIANA &
178 THOMPSON ST
SPRINGFIELD, MA 01109

115250049
PICARD LAWRENCE D
173 THOMPSON ST
SPRINGFIELD, MA 01109



Springfield Historical Commission



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Springfield, MA 01104
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APPLICATION CHECKLIST

PROPERTY ADDRESS: WS Bowdoin Street, Springfield MA

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LETTER OF AUTHORIZATION

If the landowner is unable to attend the hearing, correspondence shall be submitted that authorizes a representative to speak on their behalf about the application.

For more information, visit the City's website: www.springfield-ma.gov/planning/historic-comm or call the Office: (413) 787-6020.

OFFICE USE ONLY	
LOCAL HISTORIC DISTRICT: McKnight	DECISION:
DATE RECEIVED: December 17, 2025	DECISION DATE:
HEARING DATE: January 15, 2026	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: December 30, 2025	WAIVED BY COMMISSION:
DATE NOTICE MAILED: December 30, 2025	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: WS Bowdoin Street, Springfield MA

APPLICATION TYPE Certificate of Appropriateness



CERTIFICATE OF APPROPRIATENESS

Select this type of application for those changes that are in conformance with the guidelines and/or acceptable for the particular Local Historic District.



CERTIFICATE OF HARDSHIP

Select this type of application for those changes that are not appropriate with the underlying District guidelines, but which are necessary due to economic, physical, social, or other special conditions that apply to the individual property, but do not apply to the overall underlying District.



CERTIFICATE OF NON-APPLICABILITY

Select this type of application for those changes that affect features not controlled by the Commission (e.g. work that involves no change in materials, design or dimensions).



ENVIRONMENTAL REVIEW (I.E. REVIEW OF A STRUCTURE IN A NATIONAL REGISTER DISTRICT/INDIVIDUAL BUILDING)

Select this type of application for those changes that affect a structure in a National Register District, or a structure that is listed as a National Register Individual Building, that utilizes public funding (local, State, or federal). If the structure is both within a National Register District/Individual Building and a Local Historic District, select one of the application types above (Appropriateness, Hardship, Non-Applicability). If the structure contains a Preservation Restriction and is located within a National Register District/Individual Building, select the Preservation Agreement application type below.



PRESERVATION AGREEMENT

Selection this type of application if the structure contains a Preservation Restriction.



PRESERVATION OF HISTORICALLY SIGNIFICANT BUILDINGS (DEMO DELAY)

Select this type of application if the structure is more than 75 years old and are requesting that the nine (9) month demo delay restriction be lifted in order to commence demolition immediately.



MUNICIPAL PROTOCOL

Select this type of application if the structure relates to a municipally (City of Springfield) owned property, and the project will be facilitated by the municipality (City of Springfield).



SECTION 106 REVIEW

Select this type of application if the project is being submitted in accordance with Section 106.

Recourse: If a petitioner disagrees with a ruling by the Commission, he or she may, within twenty (20) days after filing the notice of such ruling with the City Clerk, appeal to the Superior Court or Housing Court, if applicable. On the other hand, the Historical Commission may, through Superior Court (or Housing Court), seek an injunction against any violation with a historic district's guidelines/standards. The Court may order the removal of any such violation, or the restoration of any building or feature altered or demolition in violation of a historic district's standards. Persons found guilty of any violations may be fined not less than ten dollars (\$10.00) or no more than five hundred dollars (\$500.00).



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: WS Bowdoin Street, Springfield MA		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER: Guidewire INC		
OWNER ADDRESS: 1974 Westover Rd, Chicopee MA 01022 <input type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER: 413-726-8275	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS: dlauber@guidewireinc.org	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE: 01680-0015	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): New construction of a 5 bedroom single family residence on the currently vacant property.		PROPOSED MODIFICATIONS (Please check all that apply) <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input checked="" type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

12/17/2025

PROPERTY OWNER'S SIGNATURE

DATE



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-6524 (fax)

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS:		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER <input type="checkbox"/>
PROPERTY OWNER:		
OWNER ADDRESS: <input type="checkbox"/> Check box if same as property address		
OWNER PHONE NUMBER:	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS:	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE:	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED):		<u>PROPOSED MODIFICATIONS</u> (Please check all that apply) <ul style="list-style-type: none"> <input type="checkbox"/> Windows (see Page 3) <input type="checkbox"/> Doors (see Page 4) <input type="checkbox"/> Siding (see Page 5) <input type="checkbox"/> Roofing (see Page 6) <input type="checkbox"/> Solar (see Page 6) <input type="checkbox"/> Signs (see Page 7) <input type="checkbox"/> Heat Pumps (see page 7) <input type="checkbox"/> Paint (see Page 8) <input type="checkbox"/> Renovations (e.g. Porches) (see Page 8) <input type="checkbox"/> New Construction (all of the above) <input type="checkbox"/> Other Projects (see Page 9):
JUSTIFICATION FOR CERTIFICATE OF HARDSHIP (IF APPLICABLE) (USE SEPARATE PAGE IF NEEDED):		

Check box if property owner will be in attendance at the hearing. If not, correspondence from the property owner authorizing a representative to present the application is required.

PROPERTY OWNER'S SIGNATURE

DATE

Pella® Lifestyle Series Double-Hung

Aluminum EnduraClad® Exterior

Detailed Product Description

Frame

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum.
- Components are assembled with screws, staples and concealed corner locks.
- Overall frame depth is 5" (127 mm) for a wall depth of 3-11/16" (94 mm).
- Jamb liner shall be [Gray, high-impact polyvinyl chloride] [Black, chlorinated polyvinyl chloride] backed by continuous hard-tempered aluminum springs.
- Optional factory applied jamb extensions are available.
- Optional factory installed fold-out installation fins with flexible fin corners.
- Optional factory-applied EnduraClad® exterior trim.
- Optional factory-installed Pella Steady Set Installation System.

Sash

- Select softwood, immersion treated with Pella's EnduraGuard® wood protection formula in accordance with WDMA I.S.-4. The EnduraGuard formula includes three active ingredients for protection against the effects of moisture, decay, stains from mold and mildew. Plus, an additional ingredient adds protection against termite damage.
- Interior exposed surfaces are clear pine.
- Exterior surfaces are clad with aluminum, lap-jointed and sealed.
- Corners mortised and tenoned, glued and secured with metal fasteners.
- Sash thickness is 1-5/8" (41 mm).
- Sashes tilt for easy cleaning.

Weatherstripping

- Foam with 3 mm skin at head and bottom rail. Thermal-plastic elastomer bulb with slip-coating set into upper sash for tight contact at check rail.
- Secondary polyvinyl chloride leaf-type weatherstrip on bottom sash at sill.
- Jamb liner to seal against sides of sash.

Glazing System

- Quality float glass complying with ASTM C 1036.
- High altitude glazing available.
- Silicone groove-glazed 11/16" [obscure] dual-seal insulating glass [[annealed] [tempered]] [[Advanced Low-E] [SunDefense™ Low-E] [SunDefense+ Low-E] [AdvancedComfort] [NaturalSun Low-E] [NaturalSun+ Low-E] with argon].

Exterior

- Exterior aluminum surfaces are finished with EnduraClad® protective finish, in a multi-step, baked-on finish.
 - Color is [White] [Tan] [Putty] [Brown] [Poplar White] [Portobello] [Hartford Green] [Morning Sky Gray] [Brick Red] [Black].

Interior

- [Unfinished, ready for site finishing] [factory primed with one coat acrylic latex] [factory prefinished [White] [Linen] [Bright White] [stain₁]].

Hardware

- Galvanized block-and-tackle balances are connected to sash with a polyester cord and concealed within the frame.
- Factory installed self-aligning surface-mounted sash lock. Two sash locks on units with frame width 33-1/4" and greater.
- Optional Sash lift furnished for field installation. Two lifts on units with frame width 33-1/4" and greater.
- Finish is [baked enamel [Champagne] [White] [Brown] [Matte Black]] [Satin Brass] [Satin Nickel].
- Champagne locks are standard on unfinished units; White locks are standard on factory prefinished white units.

Optional Products

Grilles

- Simulated-Divided-Light [with optional spacer]
 - 7/8" Grilles permanently bonded to the interior and exterior of glass.
 - Patterns are [Traditional] [Prairie] [Cross] [Top Row] [Custom – Equally Divided].
 - Interior surfaces are [unfinished, ready for site finishing] [factory primed] [pine: factory prefinished [White] [Linen White] [Bright White] [stain₁]]. Exterior grilles to match the exterior cladding color.
 - Available only on units glazed with Low-E insulated glass with argon.

– or –

- Grilles-Between-the-Glass₂

WINDOWS

Check box indicating that you are submitting an order sheet with renderings/brochure of the proposed windows.

Check box indicating that you are submitting photographs of the existing windows.

Check box indicating that you are aware of the City's Window Guidelines (click [here](#)).

Will the Dimensions of the Windows Change: Yes (Please Provide Details Below Under Additional Information) No

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE CURRENT WINDOWS:

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE WINDOWS:

NUMBER OF WINDOWS TO BE REPLACED/ADDED:

NEW WINDOW MANUFACTURER:

MODEL NUMBER(S):

	EXISTING	PROPOSED
MATERIAL (e.g. wood, vinyl, aluminum, etc):		
EXTERNAL COLOR(S) (e.g. black, white, etc):		
GRID PLACEMENT (Interior or Exterior):		
GRID PATTERN (e.g. two-over-two; six-over-one, etc):		
WINDOW STYLE(S) (e.g. double-hung, etc):		
GLASS TYPE(S) (e.g. single-pane, double-pane, etc):		

ADDITIONAL INFOMRATION:

- Insulating glass contains 3/4" contoured aluminum grilles permanently installed between two panes of glass.
- Patterns are [Traditional] [9-Lite Prairie] [Top Row] [Custom – Equally Divided].
- Interior color is [White] [Ivory] [Tan₃] [Brickstone] [Black] [Putty₃] [Brown₃] [Harvest] [Cordovan].
- Exterior color [matched to the exterior cladding color] [White].

Flat Insect Screen

- InView™ screens
 - Full-size Vinyl-coated 18/18 mesh fiberglass screen cloth complying with the performance requirements of SMA 1201, set in aluminum frame fitted to outside of window, supplied complete with all necessary hardware.
 - Screen frame finish is baked enamel, color to match window cladding.
- Hidden Screen₅
 - Vinyl-coated 18/18 mesh fiberglass screen cloth, set in aluminum channels hidden within the sash, supplied complete with all necessary hardware.
 - Finish color [White] [Black] [Brown] [Fossil] [Iron Ore].

Hardware

- Optional factory applied limited opening device available for vent units in steel, nominal 3-3/4" opening.
- Optional window opening control device available for field installation. Device allows window to open less than 4" with normal operation, with a release mechanism that allows the sash to open completely. Complies with ASTM F2090-10.

Sensors

- Optional factory installed integrated security sensors available in vent units.

- (1) Contact your local Pella sales representative for current designs, color options and regional market availability.
- (2) Available on units glazed with Low-E insulated glass with argon, and obscure insulated glass.
- (3) Tan, brown and putty Interior GBG colors are available only with matching interior and exterior colors.
- (4) Appearance of exterior grille color will vary depending on Low-E coating on glass.
- (5) Not compatible with Limited Opening Hardware.

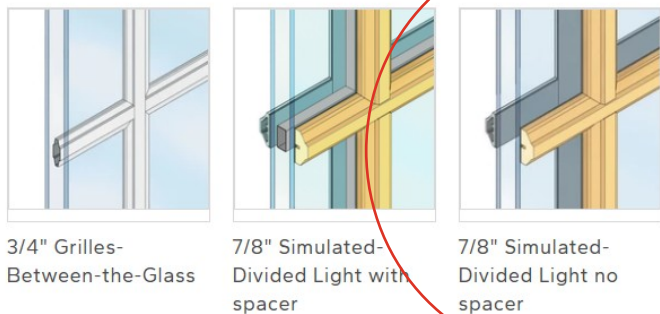
Patterns

Grilles give the appearance of individual windowpanes. Pella offers many grille options to help enhance your home's style.



Grille Profiles

Grilles are permanently sealed between the panes of insulating glass, attached to the inside of your window with latches and removed when cleaning, or permanently bonded to the inside and outside of your glass with optional spacer.



DOORS

Check box indicating that you are submitting an order sheet with renderings/brochure of the proposed door(s).

Check box indicating that you are submitting photographs of the existing door(s).

Will the Dimensions of the Door(s) Change: Yes (Please Provide Details Below Under Additional Information) No

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE CURRENT DOOR(S):

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE DOOR(S):

NUMBER OF DOOR(S) TO BE REPLACED/ADDED:

NEW DOOR MANUFACTURER:

MODEL NUMBER(S):

EXISTING

PROPOSED

MATERIAL (e.g. steel, fiberglass, etc):

EXTERNAL COLOR(S) (e.g. black, white, etc):

DOOR STYLE(S) (e.g. colonial, etc):

PANEL PATTERN (e.g. single; two panel, etc):

GLASS PLACEMENT:

GLASS TYPE(S) (e.g. single-pane, double-pane, etc):

ADDITIONAL INFORMATION:

Simpson Stile and Rail Wood Door Specifications

Specifier Note: These doors have been tested for air, water and structural performance to rated design pressures and, when used in conjunction with our WaterBarrier technology option, are ideally suited for coastal areas or other regions affected by severe weather.

A. Exterior Doors: Nantucket Collection as manufactured by Simpson Door Company.

1. Construction
 - a. Mortise-and-tenon joinery with face-driven pins
 - b. Two-piece laminated stile-and-rail construction
 - c. Divided lite doors made with SDL construction
 - d. Design pressure ratings of (Specify Design Pressure Rating); with additional hardware if required.
2. Door Design #: (____), Glass Detail #: (____)
3. Sidelight Design #: (____), Glass Detail #: (____)
4. Wood species: Douglas fir, western hemlock, sapele mahogany, nootka
5. Tenon Made of hardwood
6. Face pins to match wood species of door
7. Thickness: 1-3/4" or 2-1/4"
8. Stiles: 5-1/2" wide
9. Panel Detail: 3/4" flat panel or 1-7/16" Innerbond Double Hip-raised Panel
10. Moulding: Ovolo sticking or shaker sticking.

Specifier Note: Not all designs offer a glass options. Refer to manufacturer's literature. Delete if not required.

11. Glass Detail:
 - a. 3/4" insulated glazing options – P-516, Broze, Grey, Green Solex or Glue Chip, White Laminate, Clear Laminate, Seedy Baroque, Low-E Argon
12. Extended Warranty: 10-year warranty on doors made from Douglas Fir, western hemlock, sapele mahogany and nootka cypress



Image shown is of a standard 77504 design in Douglas fir, 3'0" x 6'8"

SIDING

Check box indicating that you are submitting an order sheet with renderings of the proposed siding.

Check box indicating that you are submitting photographs of the existing siding.

NEW SIDING MANUFACTURER:

MODEL NUMBER(S):

BUILDING SIDE(S) FOR PROPOSED SIDING:

EXISTING

PROPOSED

MATERIAL (e.g. wood, stucco, brick, non-wood shingle):

SIDING PATTERN (e.g. clapboard, bevel etc):

WINDOW CASING DIMENSIONS:

DOOR CASING DIMENSIONS:

CORNER BOARD DIMENSIONS:

CORNICES DIMENSIONS:

FRIEZE BOARD DIMENSIONS:

SHUTTER DIMENSIONS:

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING SIDING:

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE SIDING:

ADDITIONAL INFORMATION:

Hardie® Plank Lap Siding

Submittal Form

01

Submitted to:
 Project Name:
 Submitted by:
 Date:

HZ5® Product Zone HZ10® Product Zone
 Product Width: 5-1/4in 6-1/4in 7-1/4in 8in 8-1/4in 9-1/4in 12in
 Product Finish: Primed ColorPlus® Technology
 Product Texture: Smooth Select Cedarmill® Colonial Roughsawn®
 Colonial Smooth® Rustic Cedar

Hardie® Plank Lap Siding

Specification Sheet

01

DIVISION: 07 00 00 THERMAL AND MOISTURE PROTECTION | SECTION: 07 46 46 FIBER CEMENT SIDING

HARDIE® PLANK LAP SIDING

Manufacturer

James Hardie Building Products, Inc.

The products are manufactured at the following locations, with quality control inspections by ICC-ES:

- Cleburne, Texas
- Plant City, Florida
- Reno, Nevada
- Waxahachie, Texas
- Prattville, Alabama
- Peru, Illinois
- Pulaski, Virginia
- Tacoma, Washington
- Fontana, California
- Summerville, South Carolina

Compliance with the following codes

- 2006 thru 2021 International Building Code (IBC)
- 2006 thru 2021 International Residential Code (IRC)

For more information about other compliances and applicable uses, refer to ICC-ES ESR-2290

Features

- Noncombustible
- Dimensionally Stable
- Resists damage from pests
- Weather Resistant-Engineered for Climate®
- Impact resistant
- Sustainable

Use

Hardie® fiber-cement lap siding is used as exterior wall covering. The product complies with IBC Section 1403.9 and IRC Section R703.10. The product may be used on exterior walls of buildings of Type I, II, III and IV construction (IBC)

Description

Hardie® Plank lap siding is a single-faced, cellulose fiber-reinforced cement (fiber-cement) product. Hardie® Plank lap siding complies with ASTM C1186, as Grade II, Type A; has a flame-spread index of 0 and a smoke-developed index of 5 when tested in accordance with ASTM E84; and is classified as noncombustible when tested in accordance with ASTM E136.

Available Sizes

Product	Width (in)	Length	Thickness (in)
Hardie® Plank lap siding*	5-1/4, 6-1/4, 7-1/4, 8, 8-1/4, 9-1/4, 12	12 feet	5/16

* HZ5: 9-1/4, 12 only available primed HZ10: 5-1/4, 9-1/4, 12 only available primed.

Weight 2.31 lbs. per square foot

Texture & Finish

Hardie® Plank lap siding comes in a variety of textures and finishes. The product is available in smooth or wood grain texture. Additional textures are available on a regional basis. Finish options are primed for field paint, or factory finished with ColorPlus® Technology. Color availability varies by region.

Engineered for Climate®

Hardie® Plank lap siding is engineered for performance to specific weather conditions by climate zones as identified by the following map.



Performance Properties

	General Property	Test Method	Unit or Characteristic	Requirement	Result
PHYSICAL ATTRIBUTES	Dimensional Tolerances	ASTM C1185	Length	± 0.5% or ± 1/4 in	Pass
			Width	± 0.5% or ± 1/4 in	
			Thickness	± 0.04 in	
			Squareness	Δ in diagonals ≤ 1/32 in/ft of sheet length. Opposite sheet sides shall not vary in length by more than 1/32 in/ft	
			Edge Straightness	≤ 1/32 in/ft of length	
	Density, lb/ft ³	ASTM C1185		As reported	83
	Water Absorption, % by mass	ASTM C1185		As reported	36
	Water Tightness	ASTM C1185	Physical Observations	No drop formation	Pass
	Flexural Strength	ASTM C1185	Wet conditioned, psi	>1015 psi	Pass
Equilibrium conditioned, psi			>1450 psi		
THERMAL	Thermal Conductivity	ASTM C177	(BTU/(hr·ft ² ·F))/inch	As reported	2.07
	Actual Thermal Conductivity		(K _{eff})		6.62
	Thermal Resistance		R=1/ K _{eff}		0.48
	Actual Thermal Resistance		(R)		0.15
DURABILITY	Warm Water Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Heat/Rain Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
	Freeze/Thaw Resistance	ASTM C1185	Physical Observations	No visible cracks or structural alteration	Pass
			Mass Loss, %	≤ 3.0%	
			Freeze/Thaw, % strength retention	≥ 80%	
	UV Accelerated Weathering Test	ASTM G23	Physical Observations	No cracking, checking, or crazing	Pass
FIRE CHARACTERISTICS	Surface Burning Characteristics	ASTM E84	Flame Spread Index (FSI)		0
			Smoke Developed Index (SDI)		≤ 5
			Fuel Contributed		0
			NFPA Class		A
			Uniform Building Code Class	As reported	1
	International Building Code® class		A		
	Noncombustibility	ASTM E136	Noncombustible	Pass/fail	Pass
	Fire Resistance Rated Construction	ASTM E119	Fire Resistance Rating	1-hour	Note 1

Note 1: listed on Warnock Hersey and ESR 2290

Installation

Install Hardie® Plank lap siding in accordance with:

- Hardie® Plank lap siding installation instructions
- ICC-ES ESR 2290
- Requirements of authorities having jurisdiction

Warranty

Hardie® Plank lap siding: 30-year, Non-Prorated, Limited Warranty
 ColorPlus® Technology: 15-year Limited Finish Warranty

Sustainable Design Contribution

- Regionally sourced content- varies by project location
- Avoidance of certain chemicals or Red List Compliance

Detailed product information for LEED projects, or other state or regional sustainability programs is available through James Hardie Technical Services.

Storage and Handling

Store flat and keep dry and covered prior to installation.

Technical Services

Contact James Hardie Technical Services online at JamesHardie.com, or by phone at (800)426-4051

IMPORTANT: Failure to install and finish this product in accordance with applicable building codes and James Hardie written application instructions may affect system performance, violate local building codes, void the product-only warranty and lead to personal injury. **DESIGN ADVICE:** Any information or assistance provided by James Hardie in relation to specific projects must be approved by the relevant specialists engaged for the project eg. builder, architect or engineer. James Hardie will not be responsible in connection with any such information or assistance.

ROOFING

Check box indicating that you are submitting an order sheet with renderings of the proposed roofing.

Check box indicating that you are submitting photographs of the existing roofing.

EXISTING

PROPOSED

ROOF STYLE (e.g. gable, hip, mansard, etc):

MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING:

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING:

ADDITIONAL INFORMATION:

SOLAR

WILL THE MATERIAL OF THE ROOF BE CHANGING AS PART OF THIS PROJECT?

YES (PLEASE PROVIDE MORE INFO ABOVE)
 No

Check box indicating that you are submitting plans of the proposed solar project.

Check box indicating that you are submitting photographs of the existing roofing.

ROOF MATERIAL (e.g. asphalt shingle, slate, clay tile, etc):

NUMBER OF SOLAR POWERED PANELS:

SOLAR MANUFACTURER:

LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):

LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):

LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):

LOCATION OF CONDUIT (e.g. side of building, inside the house):

PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):



Landmark, shown in Georgetown Gray

LANDMARK[®]

- Two-piece laminated fiberglass-based construction
- Classic shades and dimensional appearance of natural wood or slate
- Lifetime limited transferable warranty*
- 25-year **StreakFighter[®]** algae-resistance warranty
- **NailTrak[®]** extra-wide nailing area for accurate installation
- 10-year SureStart™ protection
- 15-year 110 mph wind-resistance warranty
- Wind warranty upgrade to 130 mph available. CertainTeed starter and CertainTeed hip and ridge required
- CertainTeed Starter and hip and ridge accessory available (see details in back of brochure)

* See warranty for specific details and limitations.

CertainTeed products are tested to ensure the highest quality and comply with the following industry standards:

Fire Resistance:

- UL Class A
- UL certified to meet ASTM D3018 Type 1

Wind Resistance:

- UL certified to meet ASTM D3018 Type 1
- ASTM D3161 Class F

Tear Resistance:

- UL certified to meet ASTM D3462
- CSA standard A123.5

Impact Resistance:

- UL2218 Class 3



Quality Standards:

- ICC-ES-ESR-1389 & ESR-3537

COLOR AVAILABILITY



Scan code for more information

SIGNS

Check box indicating that you are submitting an order sheet with renderings of the proposed sign(s).

Check box indicating that you are submitting photographs of the existing sign(s).

APPLICATION TYPE:	<input type="checkbox"/> REPLACEMENT SIGN	<input type="checkbox"/> NEW SIGN	
ILLUMINATION:	<input type="checkbox"/> NON-ILLUMINATED	<input type="checkbox"/> ILLUMINATED	

NUMBER OF SIGNS TO BE REPLACED/ADDED:

SIGN MANUFACTURER:

EXISTING

PROPOSED

MATERIAL (e.g. wood, vinyl, aluminum, etc):

COLOR(S) (e.g. black, white, etc):

DIMENSIONS:

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING SIGN:

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE SIGN (E.G. DETERIORATION, NEW BUSINESS, ETC.):

ADDITIONAL INFORMATION:

HEAT PUMPS

Check box indicating that you are submitting plans of the proposed heat pump project.

Check box indicating that you are submitting photographs of the existing conditions of the applicable building side(s).

SIDING MATERIAL (e.g. wood, vinyl, brick, etc):

HEAT PUMP MANUFACTURER:

NUMBER OF COMPRESSOR UNITS:

LOCATION OF COMPRESSOR UNITS (e.g. rear side of building):

LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):

LOCATION OF CONDUIT (e.g. side of building, inside the house):

PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):



Guidewire

Springfield Historical Commission
70 Tapley Street
Springfield, MA 01104

To members of the Springfield Historical Commission.

This letter is to inform the Historical Commission that Stephen Jablonski has been appointed to represent Guidewire.

Best regards,

Daniel Lauber
Facilities Director
Guidewire Inc.
1974 Westover Rd
Chicopee, MA 01022
dlauber@guidewireinc.org

Business Office:
1974 Westover Rd.
Chicopee, MA 01022
V/TTY 413.733.6100
Fax 413.331.3196
www.guidewireinc.org

Human Resources
& Training Center:
551 East Columbus Ave.
Springfield, MA 01105
V/TTY 413.733.6100
Fax 413.733.3237
www.guidewireinc.org

Berkshire Office:
34 Depot Street
Union Station, Suite 303
Pittsfield, MA 01201
V/TTY 413.443.3295
Fax 413.443.1175

Jim Boone
97 Florida St
McKnight

January 9, 2026

Springfield Historical Commission

Re: New Construction WS Bowdoin St

Bowdoin St is made up of 9 homes built between 1870 and 1911. They are of Italianate, Colonial Revival, Stick Style and Queen Anne as per MACRIS. What is the Style of this proposed home?

One has to ask if this home is an appropriate architectural addition in the middle of a very different style neighborhood.

I have the following observations about the current proposal, which is somewhat better than the first one story suggestion, that was denied by the Commission, but still does meet the standards the Commission should require within the McKnight Historic District.

There are inconsistencies between the colored drawing at the start of the application and the details shown on the forms. The windows on the drawing are a dark color, the application indicates a White Aluminum exterior. Dark colors are more appropriate. The Drawing shows windows with 6/2 divisions and the application shows 4/1. 6/2 preferable.

The Front door in the drawing is single pane, the application shows 2/2 door. Single pane looks less like the typical side or back door.

It is important that porch railings do not go higher than the lower part of window casing. Not clear what design of railings are, size or materials.

Other houses on the street have a higher foundation, this one hugs the ground.

The house lacks Symmetry as windows are oddly placed which makes it out of balance, and haphazard.

The low slung roof line needs some elevation. What is height of building, does it look dwarfed compared to other houses on the street?

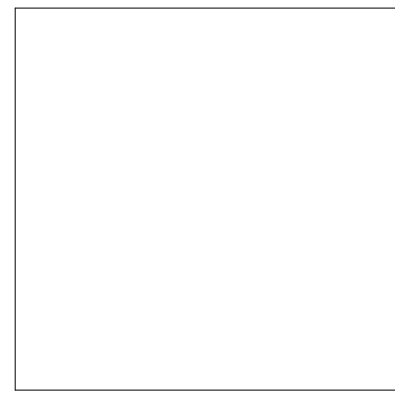
Specific measurements of height of building as well as size of windows and trim should be included.

This proposal is a start but more work is needed.

Is this the place to introduce a totally new architectural design into an established Historic District? Does it do justice to the neighborhood and contribute to the neighborhood? I would say it does not.

Thank You

Jim Boone



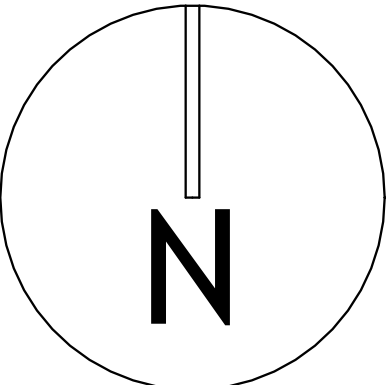
Consultants:

WS Bowdoin Street
 Springfield MA

Revisions:

Date: 12/17/2025
 File Name:
 Drawn By: Mary Donnelly
 Reviewed By: Steve J.
 Scale:

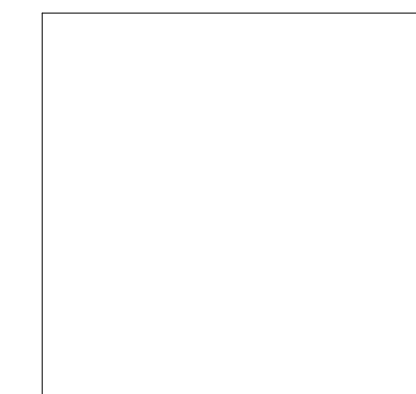
Drawing No.



WS Bowdoin Street Site Plan

Scale: 1" = 30'-0"

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 of
 Total Sheets



Consultants:

WS Bowdoin Street
 Springfield MA

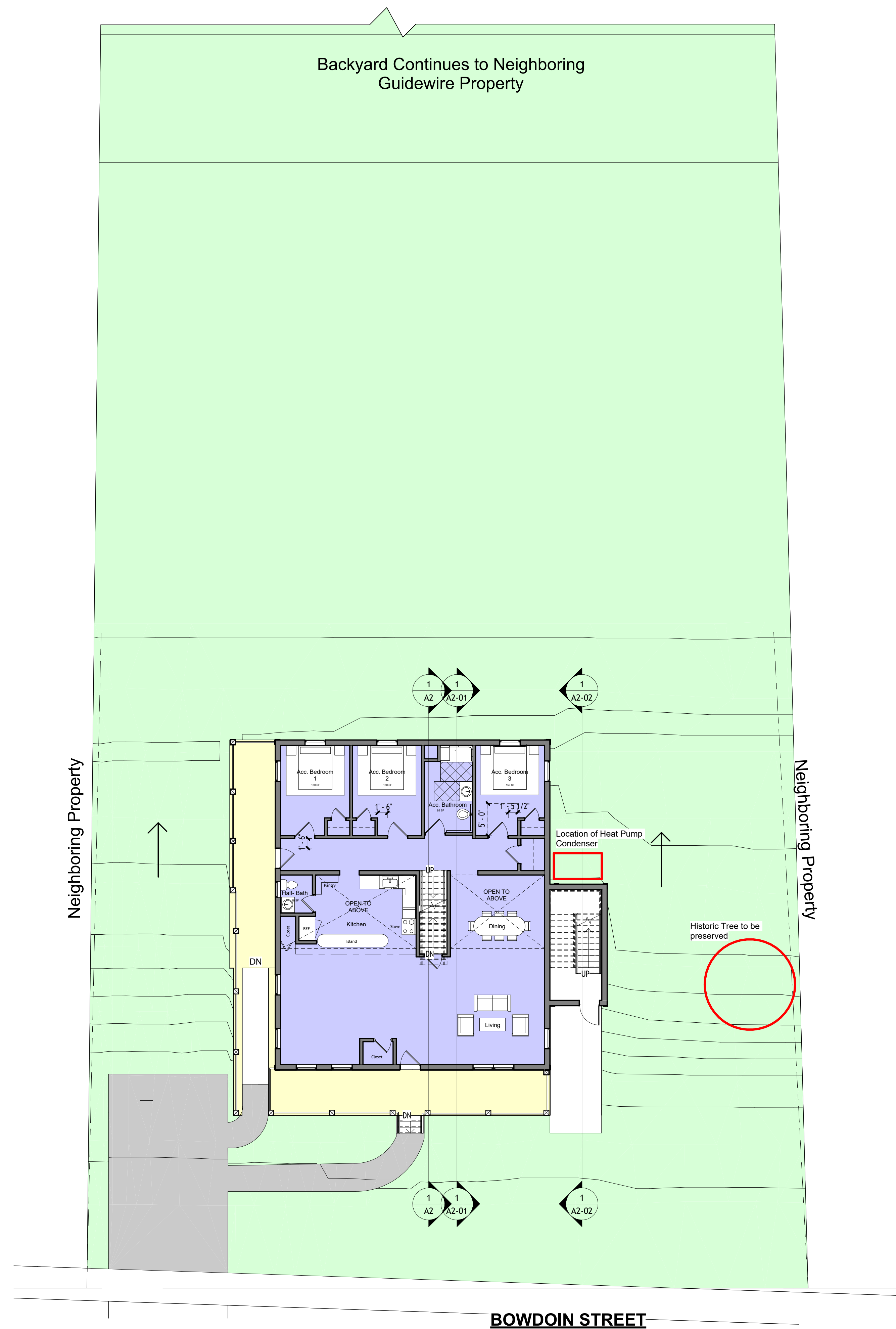
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Date 12/17/2025
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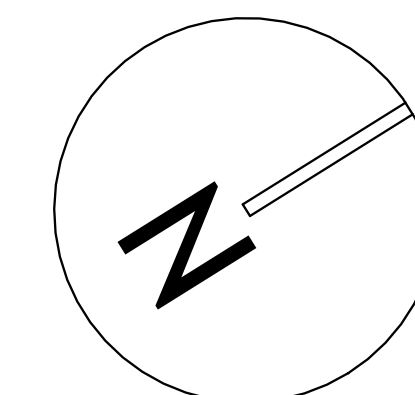
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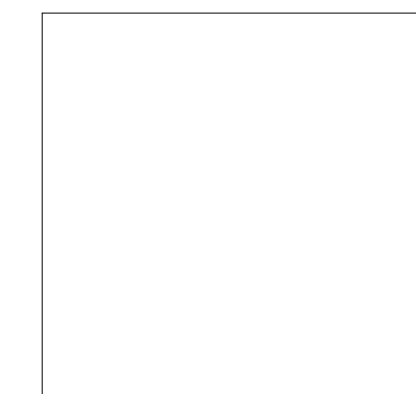
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1 **W.S Bowdoin St Level 1 Floor Plan**
 Scale: 1" = 10'-0"





Consultants:

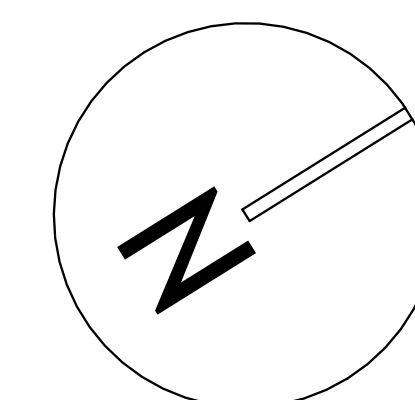
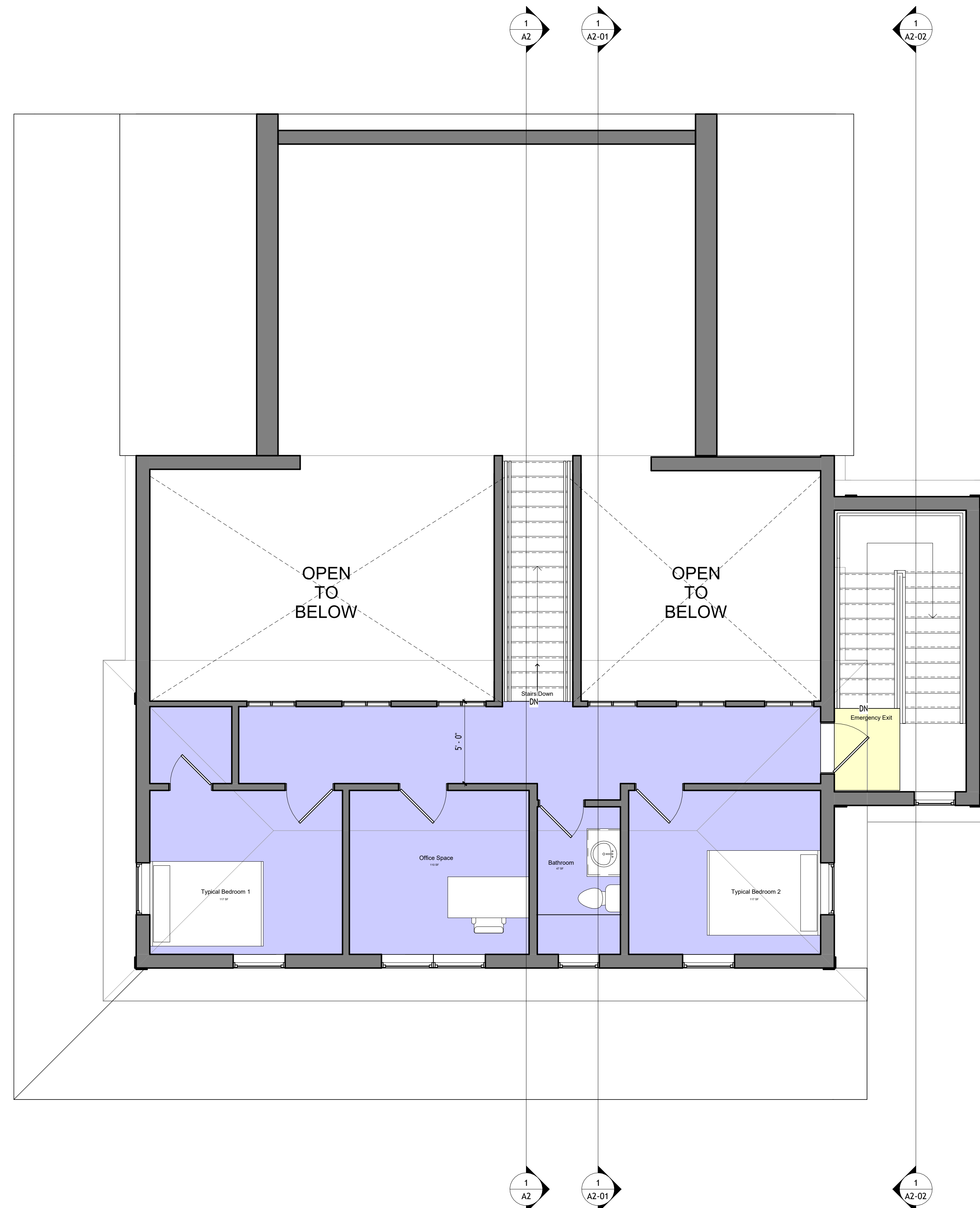
WS Bowdoin Street
 Springfield MA

Revisions:

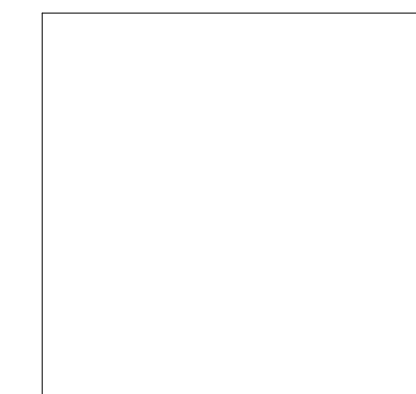
Date 12/17/2025
 File Name
 Drawn By: Mary Donnelly
 Reviewed By: Steve J.
 Scale

Drawing No.

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1 **W.S Bowdoin St Level 2 Floor Plan**
 Scale: 1/4" = 1' 0"



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WS Bowdoin Street
Springfield MA

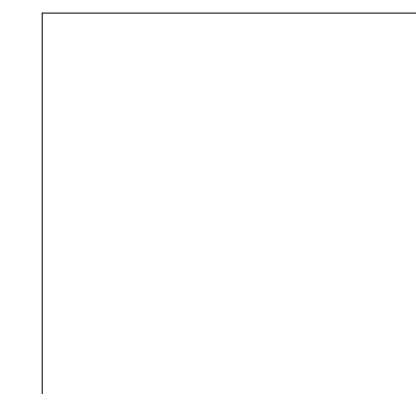
Revisions:

Date 12/17/2025
File Name
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Scale

Drawing No.

Exterior Render

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WS Bowdoin Street
Springfield MA

Revisions:

Date 01/12/2026
File Name
Drawn By: Mary Donnelly
Reviewed By: Steve J.
Scale

Drawing No.

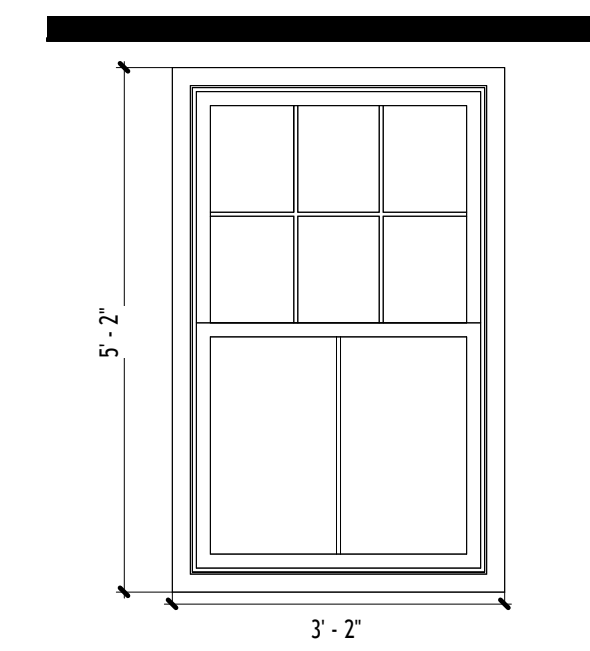
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Front Elevation

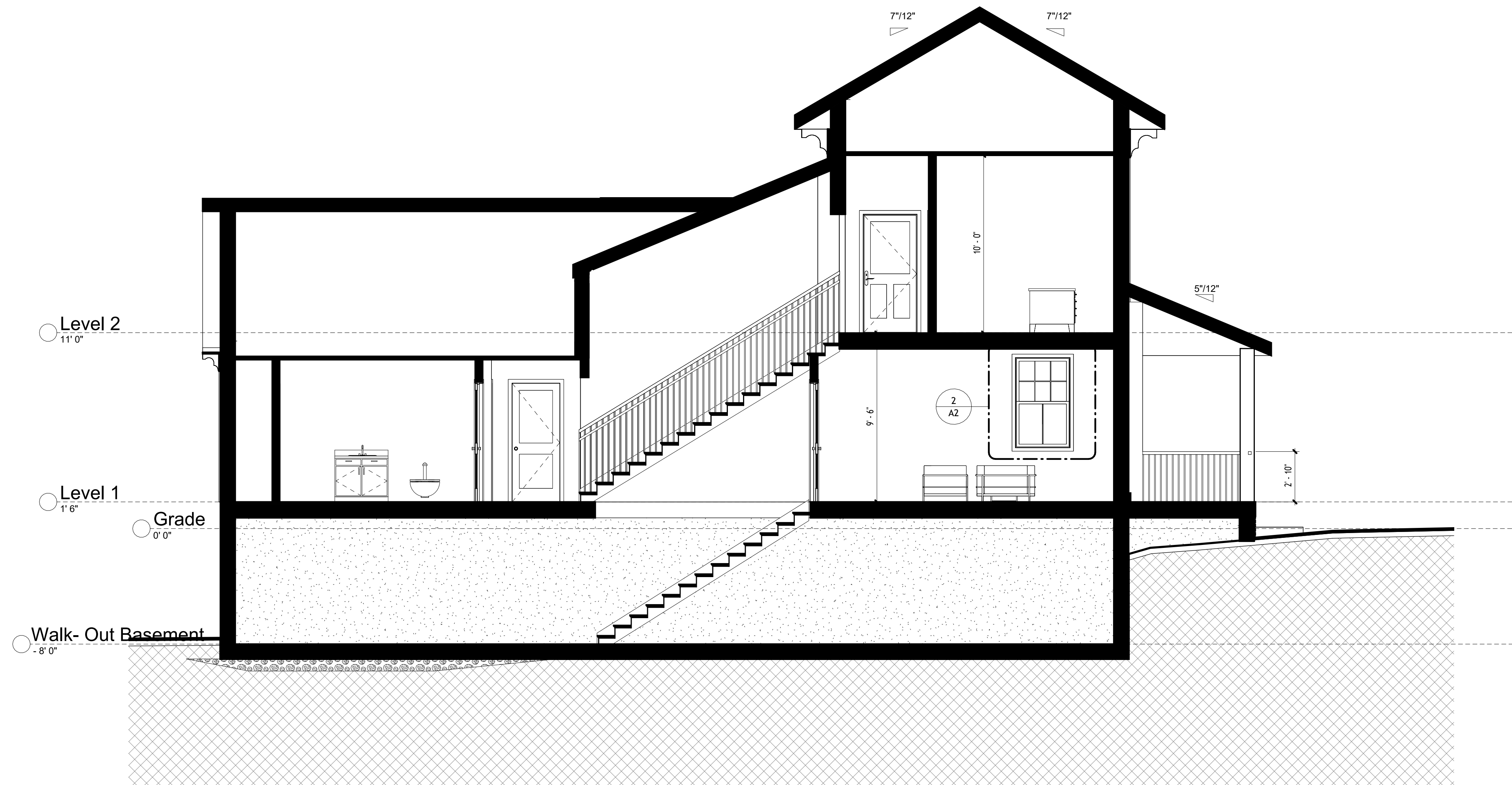
Scale: 1/4" = 1' 0"

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Total Sheets



② Section 1 - Callout 1
 1/2" = 1'-0"



Consultants:

WS Bowdoin Street
 Springfield MA

Revisions:

Date 01/12/2026
 File Name
 Drawn By: Mary Donnelly
 Reviewed By: Steve J.
 Scale

Drawing No.

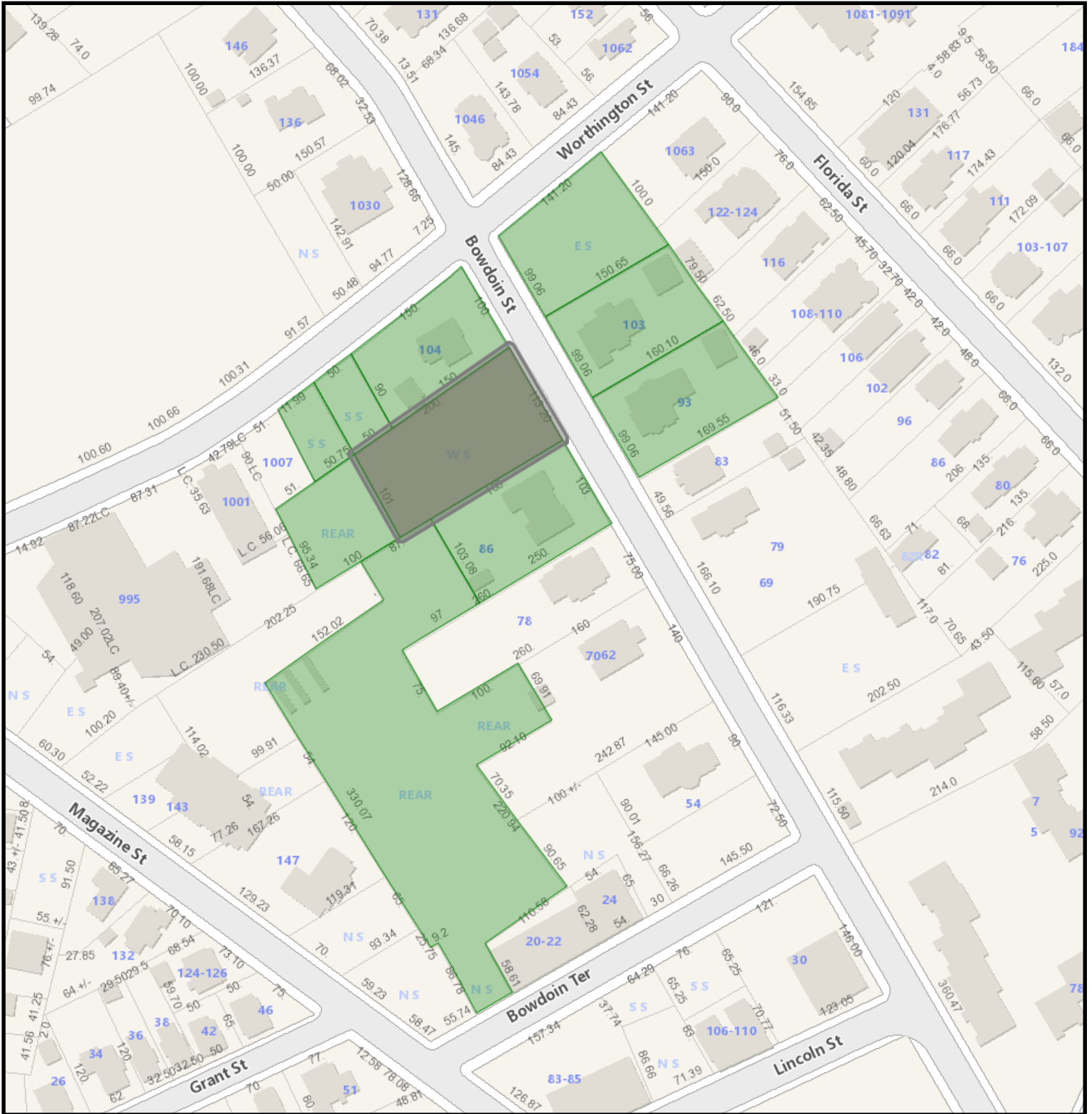
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 Total Sheets

1

Section 1

Scale: 1/4" = 1' 0"



WS Bowdoin Street (01680-

12/30/2025 10:56:28 AM

Scale: 1"=150'

Scale is approximate



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016800052
CRUZ-VELEZ LIZBETH
103 BOWDOIN ST
SPRINGFIELD, MA 01109

016800054
CRUZ-VELEZ LIZBETH
103 BOWDOIN ST
SPRINGFIELD, MA 01109

016800017
DUVERT MAUDELINE
104 BOWDOIN ST
SPRINGFIELD, MA 01109

016820001
GRAY STEPHEN P
120 CLARENDON ST
SPRINGFIELD, MA 01109

016800015
GUIDEWIRE INC
551 E COLUMBUS AVE
SPRINGFIELD, MA 01105

125350189
GUIDEWIRE INC
551 E COLUMBUS AVE
SPRINGFIELD, MA 01105

125350186
IGLESIA EVANGELISTICA
19 HICKOX ST
SPRINGFIELD, MA 01104

125350187
IGLESIA EVANGELISTICA
19 HICKOX ST
SPRINGFIELD, MA 01104

016800056
PARCIAK JAMES E
93 BOWDOIN ST
SPRINGFIELD, MA 01109

016800012
SEYMOUR JAMAL S
86 BOWDOIN ST
SPRINGFIELD, MA 01109