



70 TAPLEY STREET
SPRINGFIELD, MA 01104
413.787.6020
www.springfield-ma.gov

MEETING AGENDA

DATE: Thursday, August 6, 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 JULY 16, 2026*

III. ADVISORY REVIEWS

- 1) *SECTION 106 REVIEW – NORTH END BRIDGE:* Replacement of the North End Bridge

IV. PUBLIC HEARINGS (Continued)

- 1) *140 CHESTNUT STREET, UNIT 402:* Windows
- 2) *77 MAPLE STREET*:* Various Exterior Repairs & Renovations
* Property is also encumbered by a Preservation Restriction held by the Massachusetts Historical Commission
- 3) *117 FLORIDA STREET:* Solar Powered Panels

V. PUBLIC HEARINGS (New)

- 1) *117 FLORIDA STREET:* Roof
- 2) *72 FIRGLADE AVENUE:* Solar Powered Panels
- 3) *51 CLARENDON STREET:* Siding
- 4) *60 INGERSOLL GROVE:* Front Porch Renovations
- 5) *64 CORNELL STREET:* Front Porch Renovations

VI. OTHER MATTERS PROPERLY BEFORE THE COMMISSION

- 1) *REVIEW PROPOSED NEW CONSTRUCTION GUIDELINES*
- 2) *ADMINISTRATIVE UPDATES*
- 3) *CORRESPONDENCE TO COMMISSION*
- 4) *AUGUST 20, 2026 QUORUM CALL*
- 5) *PUBLIC SPEAK-OUT SESSION*

SPRINGFIELD HISTORICAL COMMISSION

THURSDAY, AUGUST 6, 2026 / HEARING OVERVIEWS

NORTH END BRIDGE

- **HISTORIC DISTRICT:** n/a
 - **APPLICATION SUBMISSION DATE:** Wednesday, July 22, 2026
 - **APPLICATION EXPIRATION DATE:** Friday, August 21, 2026
 - **APPLICATION OVERVIEW:** AECOM is submitting a Section 106 review relating to the reconstruction of the North End, Route 20 Bridge that connects Springfield and West Springfield. As noted in the materials, the existing bridge was constructed in 1924 with rehabilitation work completed in 1984. The existing structure includes four stone monumental pylons built as part of the 1924 build, but are not mentioned as being historically significant in the MACRIS report. The project proposes to disassemble all four monuments during construction (noting that the monuments contain significant deterioration), with two monuments being rebuilt from the existing materials.
 - **STAFF COMMENTS:**
 - None
 - **LETTER OF AUTHORIZATION:** n/a
 - **SUBMITTED WRITTEN COMMENT:** n/a
 - **DRAFT APPROVAL MOTION:**

To find that the proposed work will no have adverse impact on the historical character of the area.
-

CONTINUED HEARINGS

140 CHESTNUT STREET, UNIT 402 (APPROPRIATENESS)

- **REASON FOR CONTINUANCE:** The hearing was continued at the request of the Petitioner, as the Petitioner and their representative were unable to attend last meeting.
- **LOCAL HISTORIC DISTRICT:** Apremont Triangle
- **APPLICATION SUBMISSION DATE:** Monday, June 22, 2026
- **APPLICATION EXPIRATION DATE:** Friday, August 21, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of removing and replacing five (5) black vinyl composite double-hung windows containing no grids with five (5) black Fibrex material (wood fiber blended with polymer) double-hung Renewal by Andersen windows containing no grids.
- **STAFF COMMENTS:** none
- **APPROVED WINDOW STATUS:**

- The Commission has previously approved the Renewal by Andersen Fibrex material windows as part of a Certificate of Appropriateness application for 14 Fairfield Street on February 6, 2025.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none
- **DRAFT APPROVAL MOTION:**

To approve the removal and replacement of five (5) black vinyl composite double-hung windows containing no grids with five (5) black Fibrex material double-hung Renewal by Andersen windows containing no grids, as presented in the application and during the evening's hearing.

77 MAPLE STREET (APPROPRIATENESS & PRESERVATION AGREEMENT)

- **REASON FOR CONTINUANCE:** The hearing was continued to allow the Petitioner to consult with an architect and submit updated materials.
 - **STAFF COMMENT:** At this time, the Petitioner has not submitted any updated materials.
- **LOCAL HISTORIC DISTRICT:** Lower Maple
- **APPLICATION SUBMISSION DATE:** Thursday, July 2, 2026
- **APPLICATION EXPIRATION DATE:** Monday, August 31, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of completing comprehensive exterior restoration and repair work – noting that a Preservation Restriction held by the Massachusetts Historic Commission exists:
 - The replacement of fifteen (15) white/green windows with black aluminum, double-hung, double-pane windows.
 - The installation of black storm windows.
 - The replacement of the side entrance green wooden door with a white steel, colonial, six-panel door.
 - The installation of an unspecified new front door.
 - Repairs to the existing roof (information about the repairs was not provided).
 - The following items were communicated to Staff as being part of the scope of work; however, information has not been provided:
 - The installation of storm shutters;
 - The repointing of chimneys;
 - Repairs to the side porch area;
 - The installation of an ADA-Ramp; and
 - Information about the rear addition being replaced
 - Note, the Petitioner has replaced the rear addition with any approval.
- **STAFF COMMENTS:**

- Staff ***does not recommend approving the application until*** correspondence is received from the Massachusetts Historical Commission advising that they have approved all of the scope of work submitted herein.
 - Staff recommends ***continuing the application*** to allow the Petitioner to submit additional information, and if submitted, conduct a site visit.
 - The Petitioner has advised that they prefer white windows instead of black windows; Staff is unsure if this request is in relation to the storm windows or regular windows.
 - The proposed description of the door in the application does not match the submitted information, as the submittal information contains a five-window pane door with side lights and a transom.
 - The Petitioner has advised that renovating the five chimneys is costly, suggesting an alternative approach to fix the chimney; however, the work is not outlined in the submitted materials.
 - **LETTER OF AUTHORIZATION:** n/a
 - **SUBMITTED WRITTEN COMMENT:** none
 - **DRAFT CONTINUANCE MOTION:**
To continue the evening's hearing to the Commission's next regularly scheduled meeting – August 20, 2026.
-

117 FLORIDA STREET (APPROPRIATENESS)

- **REASON FOR CONTINUANCE:** The hearing was continued to allow the Staff and the Petitioner to seek clarification as to whether the existing slate roof requires replacement, and if so, allowing for the Petitioner to submit a separate application.
- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Monday, June 22, 2026
- **APPLICATION EXPIRATION DATE:** Friday, August 21, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 13 solar powered panels onto the south side of the primary building with the utility equipment also being placed on the south side of the primary building. The equipment will be shielded from Florida Street by a fence. The conduit will be installed on the south side of the primary building.
 - The panels appear to be minimally visible from Florida Street.
- **STAFF COMMENTS:**
 - The Petitioner has noted that the conduit will not be visible because it will be located behind the fence; however, after viewing the project site on Google Street View, Staff recommends that the Commission confirm this assertion, as any conduit traversing the side of the building above the fence line will likely be visible from the Florida Street.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none
- **DRAFT APPROVAL MOTION** ***(ASSUMING THAT THE COMMISSION APPROVES THE ROOF REPLACEMENT)***:

To approve the installation of 13 solar powered panels onto the south side of the primary building with the utility equipment also being placed on the south side of the primary building, shielded from Florida Street by a fence; the conduit will be installed so [REDACTED] and shall be painted to match the exterior surface it is affixed to, as presented in the application and during the evening's hearing.

NEW HEARINGS

117 FLORIDA STREET (APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Wednesday, July 22, 2026
- **APPLICATION EXPIRATION DATE:** Sunday, September 20, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of removing slate shingles and installing asphalt shingles on the half of the roof containing the solar powered panels.
- **STAFF COMMENTS:**
 - The Petitioner has noted in the application that only half of the roof will have the slate shingles removed, suggesting that that half of the slate shingle roof is only being removed and replaced with asphalt shingles for the purpose of installing the solar powered panels.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none
- **NO DRAFT APPROVAL MOTION PROPOSED**

72 FIRGLADE AVENUE (CERTIFICATE OF APPROPRIATENESS)

- **LOCAL HISTORIC DISTRICT:** Forest Park Heights
- **APPLICATION SUBMISSION DATE:** Monday, July 13, 2026
- **APPLICATION EXPIRATION DATE:** Friday, September 11, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness for the purpose of installing 19 solar powered panels onto the south side of the primary building with the utility equipment being placed on the west rear side of the primary building, shielded from Firglade Avenue by the house itself. The conduit will be installed on the south side of the primary building.
 - The panels on the east side of the side-facing gable will be visible from Firglade Avenue.
- **STAFF COMMENTS:**
 - The Petitioner has noted that the conduit will be placed on the side of building; the Commission should ascertain where the conduit will be located and whether it will be visible from the Firglade Avenue right-of-way.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none

- **DRAFT APPROVAL MOTION:**

To approve the installation of 19 solar powered panels onto the south side of the primary building with the utility equipment being placed on the west rear side of the primary building, shielded from Firglade Avenue by the house itself; the conduit will be installed [REDACTED], and shall be painted to match the exterior surface it is affixed to, as presented in the application and during the evening's hearing.

51 CLARENDON STREET (APPROPRIATENESS/HARDSHIP)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Tuesday, July 14, 2026
- **APPLICATION EXPIRATION DATE:** Saturday, September 12, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Appropriateness and/or Hardship for the purpose of replacing wood clapboard siding with PlyGem Mastic-Carvedwood 44 vinyl clapboard siding, noting that there will be no changes in dimensions of the clapboard or trim from what currently exists.
- **STAFF COMMENTS:**
 - The Petitioner has advised that vinyl siding is being proposed due to being on a limited income – 80% below the local Area Median Income; that the proposed vinyl siding has been authorized by both Habitat for Humanity and MassHousing for assistance.
 - If approved, the application should be approved as a Certificate of Hardship Application.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none
- **DRAFT APPROVAL MOTION:**

To approve the replacement of wood clapboard siding with PlyGem Mastic-Carvedwood 44 vinyl clapboard siding, with no changes in dimensions of the clapboard or trim from what currently exists, as presented in the application and during the evening's hearing.

60 INGERSOLL GROVE (UNDECLARED)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Thursday, July 9, 2026
- **APPLICATION EXPIRATION DATE:** Monday, September 7, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for an undeclared Certificate type for the purpose of repairing the cement front deck/porch, stairs, and retaining wall, which also includes the addition of blue stone pavers on top of the deck/porch and stairs.
- **STAFF COMMENTS:** None
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none

- **DRAFT APPROVAL MOTION:**

To approve the repair of the cement front deck/porch, stairs, and retaining wall, in addition to installing blue stone pavers on top of the deck/porch and stairs, as presented in the application and during the evening's hearing.

64 CORNELL STREET (HARDSHIP)

- **LOCAL HISTORIC DISTRICT:** McKnight
- **APPLICATION SUBMISSION DATE:** Wednesday, July 29, 2026
- **APPLICATION EXPIRATION DATE:** Sunday, September 27, 2026
- **APPLICATION OVERVIEW:** The Petitioner has submitted an Application for Certificate of Hardship for the purpose of renovating and replacing the previously existing front porch tongue and groove wooden floorboards with trex floorboards.
- **STAFF COMMENTS:**
 - The Petitioners have already commenced, and may have already completed, the work; the Building Department has issued a Stop Work Order.
 - The Commission should include a time frame as to when the Petitioners need to remediate, mitigate, or complete the approved upon work – whatever that approval may be from the evening's hearing.
- **LETTER OF AUTHORIZATION:** n/a
- **SUBMITTED WRITTEN COMMENT:** none
- **NO DRAFT APPROVAL MOTION PROPOSED**

OTHER MATTERS BEFORE THE COMMISSION

- Staff has prepared the draft New Construction Guidelines for review, which includes comments from members of the Commission itself, as well as comments from Shannon Walsh (Pioneer Valley Planning Commission).

ADMINISTRATIVE UPDATES

- **FOR YOUR INFORMATION (FYI)**
 - None
- **QUESTIONS TO THE COMMISSION**
 - None
- **RECENTLY APPROVED CERTIFICATES OF NON-APPLICABILITY**
 - **14 GREENLEAF STREET** → Asphalt Roof Shingles to Asphalt Roof Shingles
 - **45 GREENLEAF STREET** → Exterior Repainting
 - **24 WASHINGTON ROAD** → Replacement of Two Rear Windows
 - **14 CHERRYVALE AVENUE** → Replacement of Flat Rubber Roof
 - **1127 WORTHINGTON STREET** → Exterior Restorations & Repairs
 - *Historic Home Restoration Program Application*
 - **137 DARTMOUTH TERRACE** → Exterior Repairs to the Front Porch



SPRINGFIELD HISTORICAL COMMISSION MEETING MINUTES

THURSDAY, JULY 16, 2026

COMMISSIONERS IN ATTENDANCE:

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

STAFF AND ELECTED OFFICIALS IN ATTENDANCE:

Andrew Strniste, Director of Community Planning (in-person)
Attorney Robert Shewchuk, Associate City Solicitor (remote)

PUBLIC IN ATTENDANCE:

Rozani Acevedo (80 Ingersoll Grove / in-person)
Courtney Rose (unknown / in-person)
Hong Qian (77 Maple Street / in-person)
Bert Wright (23 Groveland Street / in-person)
Salomi Stewart (160 Buckingham Street / in-person)
Cynthia Jones (181 Buckingham Street / in-person)
George Abdow (205 St. James Avenue / in-person)
Isdrío Reyes (19131 SW 136 Court, Miami, FL / remote)
Iris Reyes (117 Florida Street / in-person)

I. OPENING REMARKS

- Chair A. Nardi opened the meeting at 5:30 PM and informed the attending public of the Commission's meeting procedures for reviewing applications.

II. ROLL CALL

- Chair A. Nardi proceeded with the evening's roll call:

COMMISSIONER	ATTENDANCE
<i>Chair Alfonso Nardi</i>	<i>Present – In Person</i>
<i>Vice Chair Walter Kroll</i>	<i>Present – In-Person</i>
<i>Kevin Coffee</i>	<i>Absent</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 – JUNE 18, 2026**

MOTION TO APPROVE THE MINUTES OF JUNE 18, 2026	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	SECONDED – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	YAY
VANA NESPOR	YAY
VINCENT WALSH	MOTION – YAY
MARISA ZORZI	YAY

- Commissioner V. Walsh made a motion to accept the minutes of June 18, 2026. The motion was seconded by Commissioner W. Kroll. With no discussion on the motion, it was approved unanimously.

IV. **ACCEPTANCE OF MINUTES – JUNE 24, 2026**

MOTION TO APPROVE THE MINUTES OF JUNE 24, 2026	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	SECONDED – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	YAY
VANA NESPOR	YAY
VINCENT WALSH	MOTION – YAY
MARISA ZORZI	YAY

- Commissioner V. Walsh made a motion to accept the minutes of June 24, 2026. The motion was seconded by Commissioner W. Kroll. With no discussion on the motion, it was approved unanimously.

V. **NEW PUBLIC HEARING – 80 INGERSOLL GROVE**

MOTION TO APPROVE THE ADA ACCESSIBLE RAMP AT 80 INGERSOLL GROVE	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	YAY
VANA NESPOR	MOTION – YAY
VINCENT WALSH	YAY
MARISA ZORZI	SECONDED – YAY

- Rozani Acevedo, owner of the 80 Ingersoll Grove, was before the Commission to present the ADA Accessibility Ramp application – to be attached to the front door entrance.

- R. Acevedo sought approval for an aluminum ADA ramp at the front (north) entrance to address immediate household mobility needs, explaining that a family member recently suffered a stroke and that other household members, including two legally blind children, require safer access to the house. The proposed design provides a straight-run ramp with platform landing aligned to the front door, avoiding a longer approach from the driveway that would complicate transfers.
- Commissioners expressed support for the hardship request and focused on visual mitigation for the small-scale façade. While acknowledging that ADA requirements limit certain aesthetic choices, the Commission recommended painting the ramp railings a dark color (black) to reduce contrast with the house and suggested landscaping or trellises to soften the ramp's presence from the street. The owner agreed that the railings could be painted (using a durable enamel such as Rust-Oleum) and volunteered to incorporate plantings to further reduce visual prominence.
- No public comments were offered.
- Commissioner V. Nespor made a motion to accept the application with the railings being painted black, with the ramp to be removed when no longer needed. The motion was seconded by Commissioner M. Zorzi. With no discussion on the motion, it was approved unanimously.

VI. **NEW PUBLIC HEARING – 140 CHESTNUT STREET, UNIT 402**

MOTION TO APPROVE THE SIGN PROJECT AT 122 CHESTNUT STREET	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	MOTION – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	YAY
VANA NESPOR	SECONDED – YAY
VINCENT WALSH	YAY
MARISA ZORZI	YAY

- At the applicant's request, the Commission entertained a motion made by Commissioner V. Walsh to continue the meeting to the August 6, 2026 meeting agenda. The motion was seconded by Commissioner W. Kroll. With no discussion on the motion, it was approved unanimously.

VII. **NEW PUBLIC HEARING – 181 BUCKINGHAM STREET**

MOTION TO APPROVE THE WINDOW PROJECT AT 181 BUCKINGHAM STREET	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	MOTION – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	YAY
VANA NESPOR	YAY
VINCENT WALSH	YAY
MARISA ZORZI	SECONDED – YAY

- Cynthia Jones, the property owner of 181 Buckingham Street, was before the Commission to present the window project application.
- C. Jones petitioned to replace 26 deteriorated wooden double-hung single-pane windows (no grids) with Mercury Excelum Icon series double-hung units (triple pane, no grids) procured through the Mass Save program, citing extensive deterioration, safety concerns, and energy efficiency improvements needed to sustain ongoing weatherization efforts.
- Commissioners reiterated long-standing practice not to approve white vinyl windows visible from the public way in historic districts and reviewed the manufacturer's standard color offerings (e.g., black, bronze, brown), confirming that compliant darker colors are available for the Icon series. The Commission balanced the Petitioner's hardship (including funding constraints within the program) against district standards, clarifying that if darker colors carry a price differential, it is typically modest, and that approval would be conditioned on a dark finish, with the Petitioning needing to return if procurement proves infeasible.
- No public comments were offered.
- Commissioner W. Kroll moved to approve the removal and replacement twenty-six (26) wooden, double-hung, single-pane windows, varying in color, containing no grids with vinyl, Mercury Excelum (ICON series), double hung, triple-pane windows containing no grids in black or a dark color (e.g. bronze), with white not being an approved color – in accordance with the Mass Save Program, as presented in the application and during the evening's hearing. The motion was seconded by Commissioner M. Zorzi. With no discussion on the motion, it was approved unanimously.

VIII. NEW PUBLIC HEARING – 146 BAY STREET

MOTION TO APPROVE THE WINDOW PROJECT AT 146 BAY STREET	
CHAIR ALFONSO NARDI	<i>YAY</i>
VICE CHAIR WALTER KROLL	<i>SECONDED – YAY</i>
KEVIN COFFEE	<i>ABSENT</i>
JUDI CROWELL	<i>YAY</i>
VANA NESPOR	<i>MOTION – YAY</i>
VINCENT WALSH	<i>YAY</i>
MARISA ZORZI	<i>YAY</i>

- Bert Wright, property owner of 146 Bay Street, was before the Commission to present the window project application at the aforementioned property.
- B. Wright requested approval to replace 24 missing or failed windows on a previously abandoned structure, proposing United Window & Door 7400 series black vinyl double-hung windows with two-over-two grid pattern, while also submitting an alternative model from another supplier.
- Commissioners emphasized adherence to historic appearance: black finish, exterior grids (not between the glass), and a slim sash profile to emulate traditional wood windows rather than bulky replacement profiles. B. Wright affirmed that the intended grid pattern is two-over-two and stated that the selected model would

provide exterior grids; the Commission directed that the approved specification must match what is installed.

- No public comments were offered.
- Commissioner V. Nespor made a motion to approve the application with the stipulation that the grids be installed on the exterior of the window, the color remains black, and that the window is the same as the presented 7400 Series. The motion was seconded by Commissioner W. Kroll. With no discussion on the motion, it was approved unanimously.

IX. NEW PUBLIC HEARING – 146 BAY STREET

MOTION TO APPROVE THE BASEMENT HATCH PROJECT AT 146 BAY STREET	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	MOTION – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	SECONDED – YAY
VANA NESPOR	YAY
VINCENT WALSH	YAY
MARISA ZORZI	YAY

- Bert Wright, property owner of 146 Bay Street, was before the Commission again, this time to present basement hatch project application at the aforementioned property.
- B. Wright sought approval to install a metal basement hatch sized to the existing opening at grade, replacing a temporary plywood cover.
- The Commission discussed finish color and visibility and concluded that a gray finish matching the foundation would minimize the visual impact, noting the hatch would not be a prominent façade feature.
- Commissioner W. Kroll made a motion to approve the basement hatch door as presented – to be painted the color gray to match the foundation. The motion was seconded by Commissioner J. Crowell. With no discussion on the motion, it was approved unanimously.

X. NEW PUBLIC HEARING – 205 ST. JAMES AVENUE

MOTION TO APPROVE THE DOOR PROJECT AT 205 ST JAMES AVENUE	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	MOTION – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	SECONDED – YAY
VANA NESPOR	YAY
VINCENT WALSH	YAY
MARISA ZORZI	YAY

- George Abdow, the landowner's representative and contractor, was in attendance in person, while the landowner of 205 St. James Avenue, Isdrio Reyes, was in attendance remotely, both to discuss the application relating to the reinstallation of the original door at the aforementioned address.
- G. Abdow explained that following a break-in, an unauthorized emergency installation of a single modern door with sidelights occurred; the owner petitioned the Commission to restore and reinstall the property's original double front doors, which had been retained and are undergoing repair and restoration at a shop. The owner requested approval to finish the restored doors in black to coordinate with the updated exterior color scheme.
- Commissioners affirmed that returning the double-door configuration is essential to the historic character of the building. The Commission confirmed that the requested black finish is compatible with district standards, and the Commission noted that if restoration proves infeasible, the owner must return with a new application proposing any alternative.
- Kira Holmes, on behalf of the Springfield Historic Trust, supported the reinstallation of the original doors.
- Commissioner W. Kroll made a motion to approve the reinstallation of the original front double door entrance at 205 St. James Avenue with the color being black. The motion was seconded by Commissioner J. Crowell. With no discussion on the motion, it was approved unanimously.

XI. NEW PUBLIC HEARING – 77 MAPLE STREET

<i>MOTION TO CONTINUE THE EXTERIOR RENOVATIONS PROJECT RELATING TO 77 MAPLE STREET</i>	
<i>CHAIR ALFONSO NARDI</i>	<i>YAY</i>
<i>VICE CHAIR WALTER KROLL</i>	<i>SECONDED – YAY</i>
<i>KEVIN COFFEE</i>	<i>ABSENT</i>
<i>JUDI CROWELL</i>	<i>YAY</i>
<i>VANA NESPOR</i>	<i>YAY</i>
<i>VINCENT WALSH</i>	<i>MOTION – YAY</i>
<i>MARISA ZORZI</i>	<i>YAY</i>

- Hong Qian, landowner of 77 Maple Street, and Courtney Rose, a project representative, were before the Commission to present various exterior renovations to the building at 77 Maple Street.
- H. Qian and C. Rose presented a broad scope of exterior work (windows; possible storm windows/shutters; doors; roofing repairs; chimney repointing; porch repairs; ADA ramp; and rear addition remediation) at the aforementioned property encumbered by a Preservation Restriction held by the Massachusetts Historical Commission (MHC). Staff advised that written MHC concurrence is required and recommended no approvals until a complete submittal is reviewed by MHC.
- Commissioners requested architect-stamped drawings and detailed product specifications (e.g., window schedules with materials, colors, profiles, and grid types), as well as clarity on repair versus replacement, especially for historically-significant windows and chimneys. The owner described severe

deterioration and emergency securing steps (plywood, leak mitigation), and expressed difficulty obtaining responses from MHC.

- Public comment by the Springfield Preservation Trust supported historically appropriate rehabilitation and tabling decisions pending MHC approval.
- Commissioners suggested a potential site visit after complete drawings are submitted, and reiterated that interior storm windows (not visible from the public way) may be acceptable efficiency measures where repair of original windows is feasible.
- Commissioner V. Walsh made a motion to continue the application relating to 77 Maple Street to the August 6, 2026 meeting agenda to allow the applicant to collect more information. The motion was seconded by Commissioner W. Kroll. With no other discussion on the motion, it was approved unanimously.
- The Commission subsequently directed the applicant to submit a comprehensive architectural plan set, coordinate with MHC for restriction compliance, and attend with their architect to answer technical questions; Staff can assist with coordinating logistics, and the Commission will consider a site visit once materials are submitted.

XII. NEW PUBLIC HEARING – 117 FLORIDA STREET

MOTION TO CONTINUE THE SOLAR PROJECT AT 117 FLORIDA STREET	
CHAIR ALFONSO NARDI	YAY
VICE CHAIR WALTER KROLL	MOTION – YAY
KEVIN COFFEE	ABSENT
JUDI CROWELL	SECONDED – YAY
VANA NESPOR	YAY
VINCENT WALSH	YAY
MARISA ZORZI	YAY

- Iris Reyes, landowner of 117 Florida Street, was before the Commission to present the proposed solar project application.
- I. Reyes requested approval to install 13 photovoltaic panels on the south-facing roof of the primary structure, along with associated utility equipment and conduit to be placed on the south elevation behind an existing fence. Staff noted that, based on the applicant's plans, the array would be minimally visible from Florida Street, but specific details about how the conduit would be routed and whether any roof work was contemplated were not fully documented in the filing.
- Commissioners focused on two issues: (1) the visibility and routing of exterior conduit from the meter location to the roof plane, and (2) the apparent references in the installer's notes to an existing slate roof being replaced prior to panel installation, which is not part of the current application before the Commission. Members stressed that attachment methods that compromise slate are unacceptable and asked that the solar contractor present a clear mounting approach and any roof material changes as a separate, properly noticed application if required.
- Commissioner W. Kroll made a motion to continue the hearing to the August 6, 2026 meeting agenda. The motion was seconded by Commissioner J. Crowell. With no discussion on the motion, it was approved unanimously. Staff will coordinate with

the installer on conduit routing, mounting details on slate, and clarification of any roof work prerequisites, with the expectation that the contractor will attend and provide technical drawings or manufacturer details.

XIII. *OTHER MATTERS PROPERLY BEFORE THE COMMISSION – REVIEW OF PROPOSED NEW CONSTRUCTION GUIDELINES*

- Staff distributed a compiled draft of proposed guidelines reflecting Commissioners' prior edits alongside a comment memorandum from Pioneer Valley Planning Commission (PVPC) and the Springfield Preservation Trust. Notably, PVPC questioned the draft's organization by building style and suggested alternative structuring, as well as grammatical and clarifying revisions. Commissioners agreed to defer formal discussion to the August 6 meeting to allow time for review.
-

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

- Staff reported issuance of several Certificates of Non-Applicability and progress under the Historic Homes Restoration Program, noting recent approvals for 166 Buckingham Street, 127 Forest Park Avenue, and 120 Buckingham Street, with 1127 Worthington Street expected imminently.
-

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

- Staff referenced correspondence regarding Franklin Street campus preservation (with MHC opposed to demolition) and ongoing coordination with the Building Department on placement of exterior compressor/heat pump units, emphasizing that such equipment should not be located prominently on historic façades visible from the public way.
-

III. *OTHER MATTERS PROPERLY BEFORE THE COMMISSION – JULY 16, 2026 QUORUM CALL*

- Members indicated their availability for the next meeting; Staff recorded confirmations and one tentative response and will finalize attendance prior to posting the agenda.
-

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

- No additional public speak-out was offered.
 - Commissioner V. Walsh made a motion to adjourn. The motion was seconded by Commissioner W. Kroll. The Commission adjourned at 7:15 PM.
-



AECOM
250 Apollo Drive
Chelmsford, MA 01824

978.905.2100 tel
978.905.2101 fax

Alfonso Nardi, Chairman
Springfield Historical Commission
26 Central Street, Suite 11
West Springfield, MA 01089

**Re: Massachusetts Department of Transportation – Highway Division
Bridge Replacement, S-24-003=W-21-002, Route 20 over Connecticut River
MassDOT Project Number: 612494**

Dear Chairman Nardi,

The Massachusetts Department of Transportation – Highway Division (MassDOT) is proposing to replace bridges S-04-003 and W-21-002 on Route 20 (Park Avenue) over the Connecticut River between Springfield and West Springfield (see attached USGS Locus Map).

The bridges were constructed in 1924 and have undergone various maintenance and repairs since their construction. Both bridges have surpassed their lifespans and show signs of deterioration due to heavy traffic, weather conditions, and natural wear. The outdated structure also fails to meet modern engineering standards, posing safety risks and struggles to accommodate the increasing traffic demands of the growing communities.

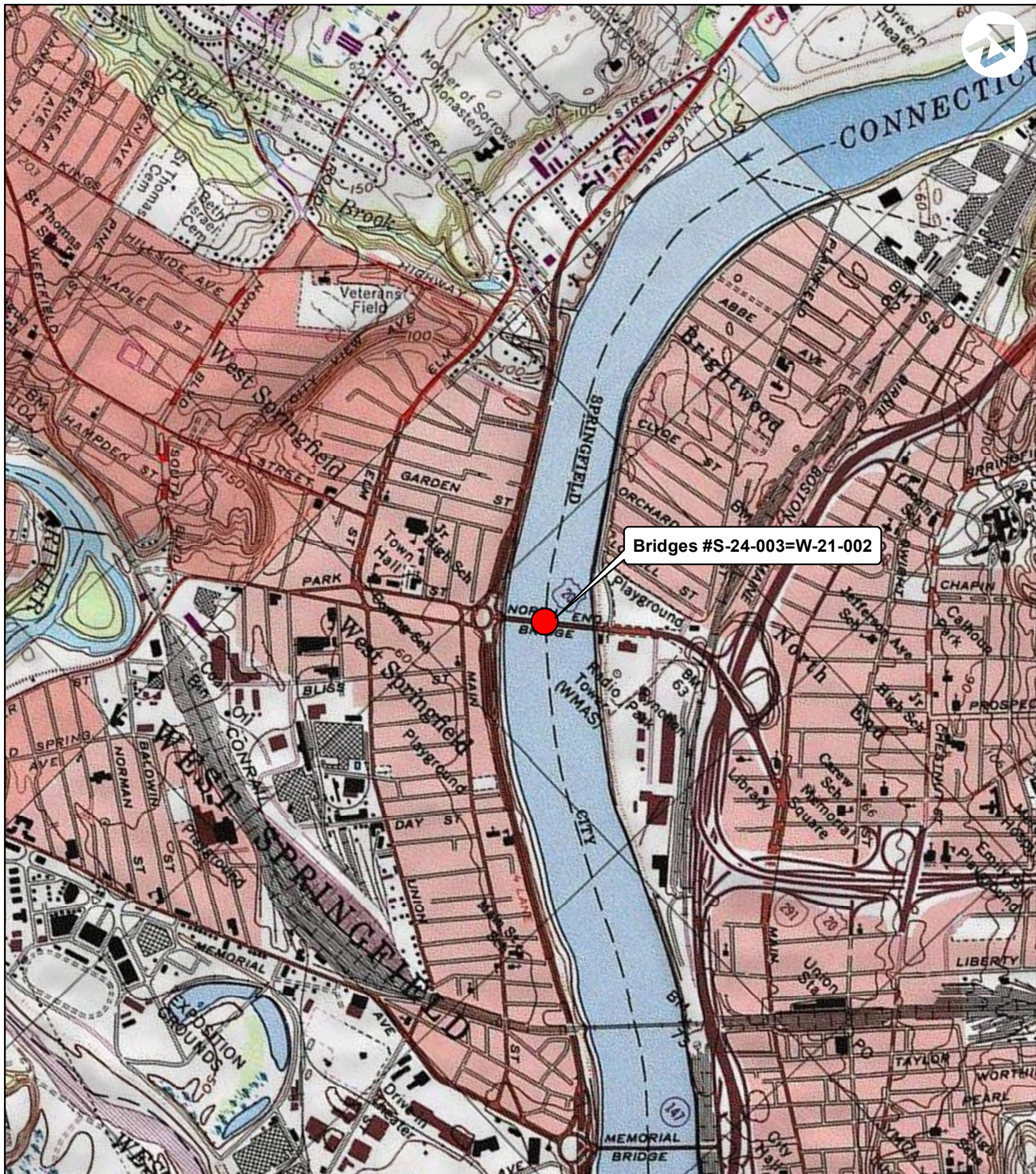
If you have any questions regarding the Project, please feel free to contact me at (203) 536-1833 or jessica.marino@aecom.com.

Sincerely,

Jessica Marino, PWS
Senior Wetland Scientist
jessica.marino@aecom.com

Enclosures: USGS Locus Map

CC: Jameson Harwood, MassDOT Cultural Resources Unit (CRU)
Brona Simon, State Historic Preservation Officer



Bridges #S-24-003=W-21-002

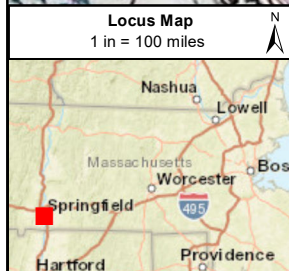


Figure 1 - USGS Topographic Map
Bridge Replacement (S-24-003=W-21-002), Park Avenue
(Route 20) over Connecticut River
 Park Avenue (Route 20)
 Springfield/West Springfield, MA

0 0.5 1 Miles

Notes: Projection is in Massachusetts State Plane (ft) NAD 1983. Topographic map courtesy of ESRI USGS Topography Basemap.

Prepared for:



Prepared by:

AECOM

May 2024

From: [Marino, Jessica](#)
To: [Strniste, Andrew](#)
Cc: [Conroy, William H. \(DOT\)](#); [Sadeq, Mustafa A. \(DOT\)](#); [Hanes, Kristina](#); [Virgilio, Dustin](#)
Subject: [External] MassDOT Route 20 Bridge Replacement Project - Springfield/West Springfield
Date: Wednesday, July 22, 2026 1:25:13 PM
Attachments: [Letter to SpringfieldHC.pdf](#)
[SPR.905 MACRIS Report.pdf](#)
[2026.06.17 - Route 20 Springfield Bridge Renderings.pdf](#)
[Pages from 001_612494 PLANS 25%.pdf](#)
[Historic American Engineering Record.pdf](#)

Hi Andrew,

Thank you for meeting with us yesterday to discuss the MassDOT Route 20 bridge replacement project. As mentioned on the call, the project includes the full replacement of the Route 20 bridge over the Connecticut River. The original structure was constructed in 1924 and consisted of four steel deck trusses. In 1984, the bridge was rehabilitated, and the two exterior trusses were replaced with steel plate girders. It is a seven-span structure with an overall length of approximately 1,110 feet. There are 4 stone monumental pylons that were built as part of the 1924 bridge, but they are not mentioned as historically significant in the MACRIS report. The Project proposes to disassemble all 4 monuments during construction. Two monuments will be rebuilt from the existing materials. All other remaining materials will be discarded.

Attached are the following documents:

- Section 106 consultation letter – sent to you on 5/4/2026
- MACRIS report for the bridge – note that page 6 of the PDF indicates that the bridge was determined to be not eligible for historic listing on 12/7/1982.
- Renderings of the proposed bridge
- Sheets from the 25% plans showing the existing pillars to be removed and the 2 pillars to be replaced
- Historic American engineering record from the National Park Service with a detailed description of the bridge's history

Please feel free to circulate the attached documents to the Historical Commission ahead of the August 6 meeting. When sending out the invitation to the meeting as a remote option, please include everyone copied on this e-mail in the invitation.

We look forward to discussing the Project further then.

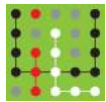
Thank you,

Jessica Marino, ENV SP, PWS

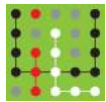
Senior Environmental Permitting Specialist/Wetland Scientist
Northeast Environmental Planning & Permitting Department, AECOM Environment
M +1 203 536 1833
jessica.marino@aecom.com

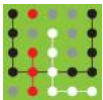
AECOM

SPRINGFIELD BRIDGE

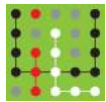


SPRINGFIELD BRIDGE

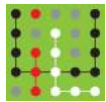




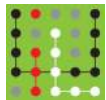
SPRINGFIELD BRIDGE



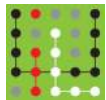
SPRINGFIELD BRIDGE



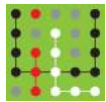
SPRINGFIELD BRIDGE



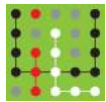
SPRINGFIELD BRIDGE



SPRINGFIELD BRIDGE



SPRINGFIELD BRIDGE



SPRINGFIELD / WEST SPRINGFIELD
ROUTE 20 OVER CONNECTICUT RIVER

STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
MA	-	78	104
PROJECT FILE NO.		612494	

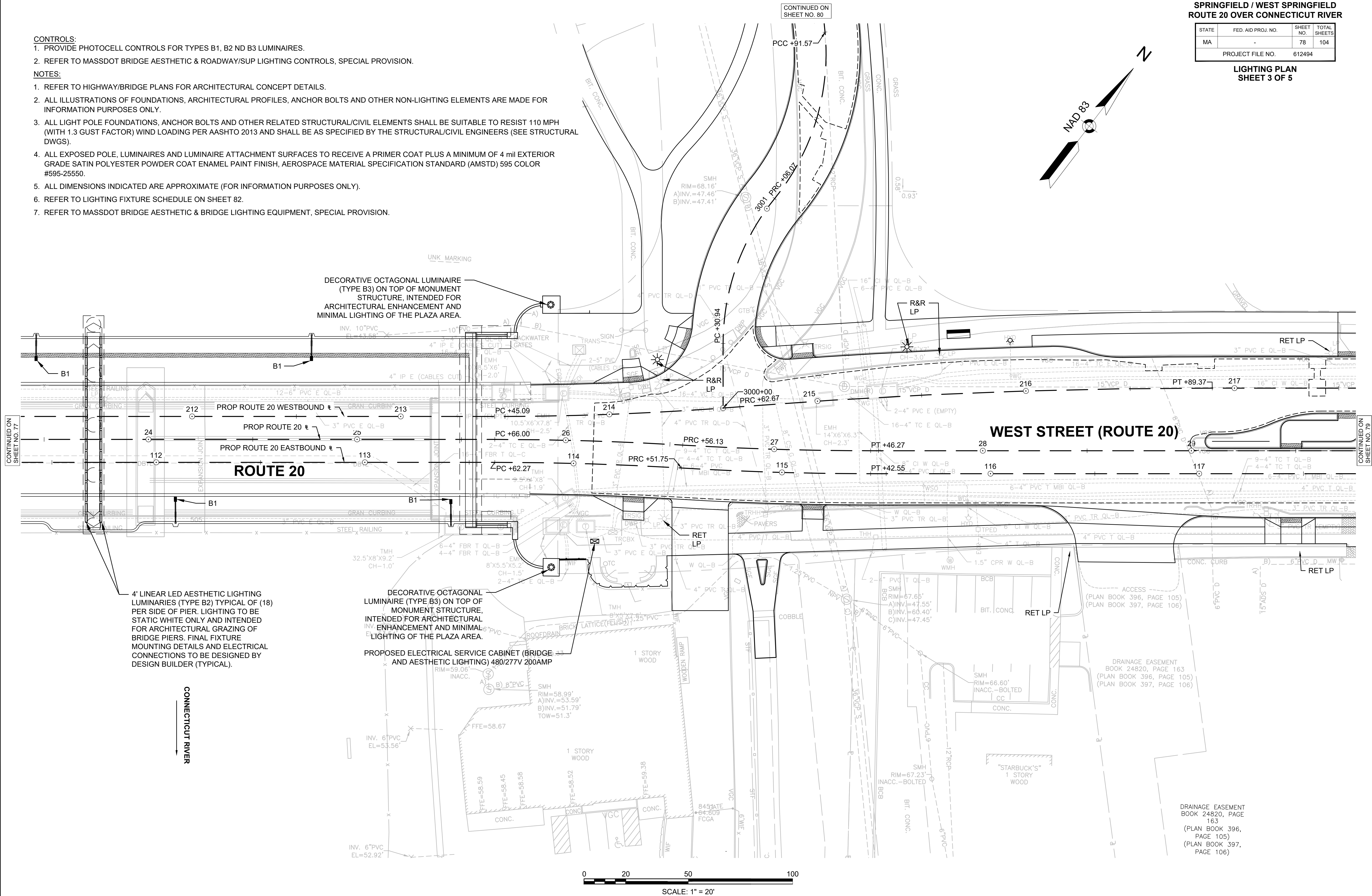
LIGHTING PLAN
SHEET 3 OF 5

CONTROLS:

1. PROVIDE PHOTOCELL CONTROLS FOR TYPES B1, B2 ND B3 LUMINAIRES.
2. REFER TO MASSDOT BRIDGE AESTHETIC & ROADWAY/SUP LIGHTING CONTROLS, SPECIAL PROVISION.

NOTES:

1. REFER TO HIGHWAY/BRIDGE PLANS FOR ARCHITECTURAL CONCEPT DETAILS.
2. ALL ILLUSTRATIONS OF FOUNDATIONS, ARCHITECTURAL PROFILES, ANCHOR BOLTS AND OTHER NON-LIGHTING ELEMENTS ARE MADE FOR INFORMATION PURPOSES ONLY.
3. ALL LIGHT POLE FOUNDATIONS, ANCHOR BOLTS AND OTHER RELATED STRUCTURAL/CIVIL ELEMENTS SHALL BE SUITABLE TO RESIST 110 MPH (WITH 1.3 GUST FACTOR) WIND LOADING PER AASHTO 2013 AND SHALL BE AS SPECIFIED BY THE STRUCTURAL/CIVIL ENGINEERS (SEE STRUCTURAL DWGS).
4. ALL EXPOSED POLE, LUMINAIRES AND LUMINAIRE ATTACHMENT SURFACES TO RECEIVE A PRIMER COAT PLUS A MINIMUM OF 4 mil EXTERIOR GRADE SATIN POLYESTER POWDER COAT ENAMEL PAINT FINISH, AEROSPACE MATERIAL SPECIFICATION STANDARD (AMSTD) 595 COLOR #595-25550.
5. ALL DIMENSIONS INDICATED ARE APPROXIMATE (FOR INFORMATION PURPOSES ONLY).
6. REFER TO LIGHTING FIXTURE SCHEDULE ON SHEET 82.
7. REFER TO MASSDOT BRIDGE AESTHETIC & BRIDGE LIGHTING EQUIPMENT, SPECIAL PROVISION.



Hampden County Memorial Bridge
Spanning the Connecticut River on Memorial Drive
Springfield
Hampden County
Massachusetts

HAER No. MA-114

HAER
MASS,
7-SPRIF,
7-

PHOTOGRAPHS
WRITTEN HISTORICAL AND DESCRIPTIVE DATA

Historic American Engineering Record
National Park Service
Department of the Interior
Washington, DC 20013-7127

HISTORIC AMERICAN ENGINEERING RECORD

HAMPDEN COUNTY MEMORIAL BRIDGE
HAER No MA-114

HAER
MASS,
7-SPRIE,
7-

Location: Spanning the Connecticut River on Memorial Drive, between the City of Springfield and the Town of West Springfield, Hampden County, Massachusetts
UTM: Springfield South, Mass., Quad. 18/466335/6988400

Date of Construction: 1922

Structural Type: Seven-span reinforced concrete deck arch bridge

Engineer: Fay, Spofford & Thorndike, Boston, engineers
Haven & Hoyt, Boston, consulting architects

Builder: H.P. Converse & Company

Use: Vehicular and pedestrian bridge

Previous Owner: Hampden County, Massachusetts

Present Owner: Massachusetts Department of Public Works, Boston

Significance: The Hampden County Memorial Bridge's main span is the longest concrete deck arch span in Massachusetts. The bridge is a finely-engineered example of a rare self-supporting arch rib reinforcement technique, derived from the Melan tradition. Once encased in concrete, the steel arch reinforcing truss acts as a partner with the concrete in bearing the dead load of the structure. Although the deck is supported on spandrel columns, they are concealed behind a fascia spandrel wall, conveying the impression of a solid structure. The consulting architects, Haven & Hoyt, embellished the structure with artificial stone, notably in the four pylons of the main channel span.

Project Information: Documentation of the Hampden County Memorial Bridge is part of the Massachusetts Historic Bridge Recording Project, conducted during the summer of 1990 under the co-sponsorship of HABS/HAER and the Massachusetts Department of Public Works, in cooperation with the Massachusetts Historical Commission.

John Healey, HAER Historian, August 1990

Description

The Hampden County Memorial Bridge spans the Connecticut River between Vernon Street in Springfield and Memorial Drive in West Springfield. The bridge was constructed between 1920 and 1922, replacing a century-old timber covered bridge some 400' upstream, which provided the city's only central river crossing.

The new bridge was constructed of reinforced concrete. The portion of the bridge crossing the river consists of seven spans, which give a combined length of 1130'-0". The main channel span, which is 176'-0" long, is not located centrally within the structure but is the third span from the city river bank. The two arches on either side of the channel span are arranged symmetrically, having spans of 154'-0" and 146'-0". The two spans at the west end are 124'-0" and 110'-0". All arches decreasing in length from the channel span shorewards. The west abutment is 50'-0" in length, and constructed of hollow-cell reinforced concrete. The eastern end of the bridge is extended by 300' as a nine-span concrete slab viaduct over the remains of formerly extensive Penn Central tracks. The arches are parabolic in form, and are comprised of five reinforced-concrete ribs. Each span carries an 80'-wide deck supported on spandrel columns rising from the inner and outer ribs, and spandrel walls supported on the outermost ribs. The arch ribs together with their wind braces and the spandrel columns and walls, together with associated deck stringers, are cast monolithically. The ribs land upon cast-steel pedestals, which are bolted to the pier skewbacks. The piers do not extend above the arch spring. The hollow piers rest on wooden piling, and are of concrete with granite facing stones.

The piers consist of non-reinforced concrete poured onto pine piles. The numbers of piles varies from 700 at pier 1, to 2,263 at the two channel piers. The coursed granite facing extends from just below the river level to a bullnose above the coping. There are ten courses of cut, rusticated granite arranged in any one course as alternating stretchers and headers. Within the coping course are set individual dressed stone skewbacks, angled to receive the ribs of the arch. Each pier has ten skewbacks, arranged to receive the five ribs that land on each side of the pier.

The ribs consist of steel parallel-chord Warren trusses of parabolic form, which are encased in concrete. They are hinged at their haunches via cast-steel bearing pedestals. Each rib contains between twenty and seventy tons of steel. The arched ribs are all 5'-6" in width, but vary in height from 4'-9" to 7'-0", according to the length of the span. Of the five ribs per arch, three are located close to the center line. The two remaining ribs are placed at the edge of the structure. The ribs are connected by wind brace beams with lattice girder reinforcement. Supplementary bar reinforcement is provided, both following the parabola of the arch, and by hoops around the rib.

The reinforcing bars of the spandrel columns are tied to the reinforcing bars of the central three ribs. The outer ribs, likewise, support the reinforcing grid for the spandrel walls. Both these elements are constructed using conventional reinforced concreting techniques. The concrete slab deck is supported on reinforced concrete stringers and transverse girders. The structure originally carried a double-track street railway at its center, to

either side were the carriageways paved with granite blocks. Twin sidewalks were provided, paved with granolithic concrete.

In addition, the granite facing of the piers various devices were employed to embellish the structure. The spandrel columns were concealed behind the spandrel wall. The concrete of the walling has a coarse texture, contrasting with the concrete of the outer rib and exposed deck, which have a rubbed finish. The outer rib is detailed with a concrete drip moulding, while the deck is finished with a pre-cast coping. That area of the spandrel walling above the pier has an artificial stone pilaster applied to maintain visual continuity with the rusticated granite below. A cartouche embellishes the crown of the channel span. Pre-cast balustrading was originally installed above the coping, but has been replaced by an art-deco style railing in wrought iron. Beacon pylons flank the channel span. They are 68' high, and feature artificial stone applied to a central reinforced concrete column. They are surmounted by decorative cast bronze lantern housings. Smaller octagonal pylons capped by a bronze spheres rise from piers 2 and 7, to mark the end of the symmetrical span.

Fay, Spofford & Thorndike

The Hampden County Memorial Bridge was designed by the Boston engineering firm of Fay, Spofford & Thorndike, which was formed in 1914. Frederic H. Fay, the senior member of the firm, had been engaged in engineering practice since completing his Master's degree in Civil Engineering, at Massachusetts Institute of Technology (M.I.T.) in 1894. He had occupied posts with the City of Boston, and was a prominent member of a number of engineering societies. Charles M. Spofford completed his post-graduate studies in engineering at M.I.T. in the same year as Fay. At the time of the bridge's construction, Spofford was Professor of Civil Engineering at Hayward. He had completed a definitive textbook on bridge engineering, and had considerable practical knowledge in the field having been employed by a Pennsylvanian steel bridge building company. Sturgis H. Thorndike graduated from the Civil Engineering program at M.I.T. in 1895. Prior to the formation of the partnership he had spent most of his career in the employ of the City of Boston.¹

Bridge Design

Although not a unique structure, the Hampden County Memorial Bridge was described in contemporary reviews as "novel". The departure from the more usual method of bar reinforcement had both benefits and potential penalties. The bridge was designed to fine engineering tolerances, the principal aims of which were to combine both steel and concrete in a single interactive unit, in which both reached their maximum load bearing capacities. The steel latticed ribs were designed to be of sufficient strength to act as end supported arches under their own weight, together with that of the rib concrete, and the formwork necessary to pour the concrete. The ribs were erected as three hinged arches, but the central hinge was made solid after the deck had been poured.

The advantages of this form of construction, in comparison with

conventional bar reinforcement were several. At the practical level, the amount of falsework required was greatly reduced. Small amounts of falsework were only required to support the crowns of the ribs while the five ribs of any arch were being erected. No falsework was required during concreting, the formwork being bolted to the rib. The lower weight of the rib construction, compared to conventional reinforced concrete arch work, permitted savings in pier construction. As pre-fabricated units the rib steel work could be swung into place rather more speedily than in situ construction of a conventional rod reinforcing mesh. This factor was particularly important on a river subject to freshets and ice flows.

On a theoretical level, the temporary hinging of the ribs at the crown, allowed for both the stresses caused by shrinkage of the rib concrete during setting, and by dead load shortening of the interior ribs as construction proceeded. More subtly, the construction method allowed considerably greater amounts of initial stress to be developed in the structural steel ribs, compared to conventional bar work. The proportioning of material was carefully controlled to produce working stresses in both steel and concrete that were close to their respective maximum permitted limits. The design affected economy of material that could not be achieved in conventional bar reinforcement, where the full potential strength of the steel work could not be developed. A working stress of 16,000 lbs./sq.in. was developed in the structural steel ribs where as if a bar system had been used a maximum of only 7,000 lbs./sq.in. could have been attained. As designed the steel work carries two-thirds of the dead load, the remainder being borne by the concrete. Conversely, one-third of the live load is carried by the steel, and two-thirds by the concrete. It was calculated that although the trussed rib was more expensive to construct than bar reinforcement the savings inherent in other aspects of the design conferred upon it cost advantages. The need for precision in the location of the ribs required expensive precision cut skewbacks, and steel pedestals. The most serious misgiving concerned the permanence of the bond between the structural steel work and the concrete.

The arrangements at the bridge were in a large measure determined by the navigation channel being to the city side of the river, and the insistence of the Army Corps of Engineers that they might at some future date require a draw span at this point. Additionally, consideration had to be given to state requirements for bridges carrying street railways. The latter requirement resulted in the concentration of three ribs about the center line of the bridge, the designers anticipating increases in the weight of street cars. The stipulation of the Army resulted in a channel fixed arch that was designed to be removed if required. In order to deal with the unbalanced thrust condition that would occur if the arch was removed the foundations and piers of the channel span are more substantial. The sequence of erection and concreting paid particular attention to the change in stress patterns that would occur if the main span were removed.²

Local History

The origins of Springfield date back to earliest colonial times, when in 1636 William Pynchon bought Indian lands in the vicinity of Chicopee. The settlement grew near the best site to ferry goods and people across The

Connecticut River. Later, the town became a major focus of highways. The north to south Connecticut Valley highway was intersected by the primary route from Massachusetts Bay to the Hudson River Valley, both crossing the river at the town. Four ferry crossings developed to serve the needs of both the local population and the traveller and merchant: the Upper Ferry on Ferry Street; the Middle Ferry at Elm Street; the Lower Ferry on York Street; and the Agawam Ferry at the southern end of the town. The major crossing for the traveller was the Upper Ferry.

The primitive road conditions were improved by the turnpiking of roads, Massachusetts approving of their establishment in 1795. By the turn of the century, the turnpike had arrived in Springfield, and provided the stimulus to construct the bridge, for which a need had been recognized for some years.

The river was first bridged at Springfield in 1805. Spanning the river at what was soon to become Bridge Street, the bridge was an open wooden structure 1234'-0" long and 30'-0" wide, and 40' above low water level. It was said to be "mongrel in style," the deck apparently rising and falling with the line of the arch. It was comprised of six spans, supported on five piers and two abutments. The work was that of the master carpenter Jonathan Walcott of Windham, Connecticut, and its cost was \$36,270. The funding was provided by a lottery, and tolls were charged for the use of the bridge. Following the ravages of flood waters, the structure collapsed in 1814 under the load of a "heavy Pennsylvania Waggon." The bridge was restored in 1816, this structure being built by Isaac Damon of Northampton, Massachusetts, for \$22,000, a sum also raised by lottery. The new bridge was a covered Burr-arched wooden structure. The pine for the bridge was cut in the Upper Connecticut Valley, and rafted downstream. In the spring freshet of 1818, ice wrecked all but the three western spans. The bridge was renovated, and reopened by 1820. The bridge was of great importance as a pre-railroad artery of trade. In those years 12,000 tons of freight passed across the river annually. The 1816 structure stood for the next 100 years, withstanding many great floods until it was demolished in the autumn of 1922, having been superseded by the new Memorial Bridge.

In the intervening years, the Connecticut had been crossed at three other locations in Springfield. In 1840 William Howe constructed his pioneering long span Howe truss bridge for the Western Railroad. The bridge was open, and was replaced in 1855, presumably because of rot, by a covered wooden bridge. This in turn was replaced in the 1870s by an iron truss bridge. In 1877 the North Bridge was opened, and in 1879 the South Bridge, both being for highway traffic. All three bridges were multiple intersection Warren iron truss bridges built by Leighton Bridge & Iron Company of New York.³

Hampden County Memorial Bridge

By the turn of the century, the old covered bridge had clearly become an anachronism. It was not until 1915, under Chapter 252 of the Acts of that year, that The Commissioners of Hampden County were authorized to construct a new bridge. The act required that a hearing "open to interested parties" be held by the County. The hearings were called from November 1915 through to January 1916. The matter of the location and dimensions of the bridge

received considerable attention, and gave the century-old bridge a reprieve. Delays were later also attributed to "the obstacles incident to the war".

Various opinions were held regarding the location of the bridge. The town of West Springfield was concerned to maintain its established street pattern, and favored a new bridge on the site of the old toll bridge. The city of Springfield having recently laid out Court Square in front of its new and grandiose City Hall, thought it fitting to complete the visual imagery with a bridge that focused on this symbol of municipal well-being. The city's preference was, therefore, Court Street, some 300 yards downstream from the old toll bridge. It was unanimously agreed that the bridge should be a high-level structure, enabling the railroad tracks on the city bank to be bridged.

On January 29, 1916 the county board appointed Fay, Spofford & Thorndike as their engineers for the project. The firm of Haven & Hoyt was retained by the engineers to advise on the architectural treatment of the bridge. In the spring of 1916 the river bed was surveyed, and thirty test bores made in a survey embracing all likely bridge sites. The borings indicated a hard stratum of sand and clay at depths of between 30' and 55'. In the absence of the discovery of solid rock it was pronounced that this bed provided a "practicable, though not ideal" foundation. In the light of the moderate foundation conditions a solid masonry arch was ruled out, the county having to choose between a reinforced concrete or a steel span. The perception of lower maintenance costs produced a consensus for the former.

By June 7, 1917 a report had been prepared by the county commissioners. It appears to have been designed to satisfy the demands of both West Springfield and Springfield. At the former, the bridge was to terminate at the same point as the old toll bridge, while at the latter, the civic pretensions of the city were satisfied by a crossing that "ran in a straight line directly towards the Campanile of the municipal group [of buildings]". (See Figure 1.) The consequence of this alignment would have been a bridge skewed at some 30 degrees to the river bank. On June 15, 1917 a design was submitted to the county court on the basis of the recommendations of the County Commissioners Report. The bridge was to cross from Bridge Street in West Springfield to a location between Vernon Street and Pyncheon Street in Springfield. It was to be a 60'-wide reinforced concrete span, designed on the same principles as the structure that was eventually built.

Soon after the publication of the Commissioner's Report it was decided to revise its findings as "former contending factions got together, and public opinion gradually crystallized in favor of a wide bridge opposite Vernon Street, square across the river". The town of West Springfield had apparently been placated by a favorable land deal to accommodate the bridge, which opened up their shore for new developments. In spite of the new consensus on the siting of the bridge at its present location the discussions continued. Future traffic developments and their implications, particularly on the number of lanes of traffic that the bridge should be built to accommodate were the main matters of debate.

The County Commissioners published a new report in January of 1919, having held further public hearings during November of 1918. This report recommended a bridge in the location, and to the design seen today. The bridge design was said to be "dignified and appropriate to the location", the principal objectives being "to secure durability and strength", although it

had been considered "essential to secure a reasonably satisfactory appearance and finish of detail". The design featured seven arched spans across the river, together with deck spans across the railroad. (See Figure 2.) It was to be of reinforced concrete, using latticed steel reinforcement ribs. As the natural channel of the river was closer to the city bank the principal span could not be located centrally within the arched structure. Considerable thought was given to the matter of visual symmetry. It was decided that of the seven spans the two to either side of the main span should be proportioned symmetrically. The illusion of overall symmetry was to be enhanced by embellishing the ends of the main span with four prominent light pylons. The visual integrity of the structure was to be emphasized by placing similar, though smaller pylons where the structures symmetry ceased.

The matter of the bridge's capacity had been resolved, and it was recommended that an 80'-wide deck should be built to accommodate six lanes of traffic, or four lanes of traffic together with a centrally-located street railway.⁴

The contract was let to H.P. Converse on April 3, 1920, at a price of \$3,254,883. The logistics of the bridges construction were finely honed. All the various stages of construction were planned, and a sequence of erection devised. Although it is convenient to subdivide the various processes it should be noted that at any one time different stages in the process of construction would be underway; thus, while the cofferdams were in place for the pier work on the Springfield side of the river, concrete was being poured around the ribs were being swung into place on the eastern side of the bridge, the spandrel columns and walls were under construction on the opposite side of the river.⁵

The contractors established a works yard on the West Springfield bank. All construction processes began on that bank and were extended across the river to the city. Here they built a large rail supplies stroage yard, and concrete mixing plant. A trestle rail siding was constructed from which hopper rail waggons delivered sand and gravel directly to storage bins located below. A sand and gravel screening plant was installed, and dry storage provided for the cement. Sand and gravel were transferred to the mising tower by mechanised buckets on an 80-foot boom derrick. From the mising tower the aggregate and cement were mixed in $\frac{1}{4}$ -yard Smith mixers. The concrete was delivered to the site by a narrow gauge railway, which crossed the river on a temporary wooden pile bridge erected 70' upstream of the main structure. The concrete was transferred from the hopper wagons to a concrete hoist tower, which floated on the river between the temporary rail bridge and the permanent structure. The steel tower was 130' high and equipped with hoisting buckets which delivered the concrete to a movable hopper. The hopper supplied an Insley steel chute that could be extended for up to 100'. These arrangements provided a flexible supply system which ensured mechanical delivery of concrete to all parts of the structure. The logistics of operation from delivery of raw materials to final pouring required thirty men, who could deliver some 450 cubic yards of concrete per day, at maximum output.⁶

Work on construction began in April of 1920. A suction dredger with revolving cutter head removed shallows in the waterway, in order that the piers should not impede the river's flow. In addition to providing a minimum water depth of 13 $\frac{1}{2}$ " in the vicinity of the bridge, the pier sites were dredged

to depths of up to 25'. Two floating pile drivers equipped with steam hammers then drove the foundation piling. A total of 10,500 piles of Delaware pine were driven to depths of between 20' and 40'. An average of 110 piles per day were driven.

After the pile driving operation were completed at any one site, cofferdams were driven around the piling to allow foundation work to continue. The dams were constructed of 6"-thick fir. The footings were built up to within 6' of low water level with concrete that was poured before the area was de-watered. The hollow piers were constructed of concrete, with wooden formwork underneath. On the exterior face the concrete was contained within the granite "facing" which was constructed one course ahead of the concrete infill. Conventional masonry laying techniques were used in the construction of the stone work. The Cape Ann Granite Company supplied the stone which was cut and numbered according to pre-determined plan at the quarry. The piers were completed by the addition of the granite skewbacks that were designed to receive the steel reinforcing ribs. Seventy skewbacks were required, there being ten to every pier. Each piece measured 5'-3" high and 5'-6" wide. Although cut to shape at the quarry, precision dressing was carried out once they were set in place. Eighty hours were spent dressing each skewback to ensure that the steel ribs were located correctly. The substructure of the bridge required 34,000 cubic yards of concrete, and 4,700 cubic yards of granite. (See Figure 3.)⁷

The trussed steel reinforcing ribs and wind braces were constructed by the McClintic-Marshall Company. The ribs were transported to the site in four-part units. The four units were riveted up into two sections prior to being swung into place by floating derrick. Falsework was only required to support the crowns of the ribs. Once the hinge pins at the skewbacks and crown were in place the ribs became self-supporting. The latticed wind brace girders were installed between the ribs of the arch. Final adjustments were made to the position of the ribs by screws in the skewback pedestals. Once the load was transferred fully to the piers, the falsework was removed.⁸

Once in place reinforcing bar was hooped about the ribs. Similarly reinforcing bars were added to the wind brace lattice. Additionally the steel bars that were to form the base of the spandrel columns were put into place. Formwork was bolted to the ribs in preparation for the pouring of the concrete. The concrete was placed around each rib during one day of continuous pouring. The concrete of each rib was poured in 20-foot sections, beginning at the piers, and alternating from one side of the span to the other. Concrete was omitted from the crown until the hinged joint of the rib rivetted up, following the installation of the deck. Within any one span the component ribs were concreted from the inside outwards. The windbracing beams were poured as part of the rib work. Between spans a particular order of erection, and concreting was specified; within a span a rib could not be concreted until the equivalent rib in the adjoining arch was erected, while in any span the number of ribs concreted could not exceed, by more than three the number previously concreted in the adjacent spans. No spandrel columns or spandrel walling was to be concreted until the flanking spans had been concreted.

The spandrel columns and walls were built using conventional reinforcing bar techniques. A slab floor was constructed upon this superstructure. Pre-

cast balustrading and artificial stone pillars, granolithic pavements completed this work.

The rib work accounted for 6,000 cubic yards of concrete. The pouring of the rib concrete began on June 13, 1921, and save for the concreting of the crown of the channel span was completed by November, when the onset of winter caused this work to be suspended. When completed 54,000 cubic yards of concrete had been used, together with 2,300 tons of structural steel, and 1,260 tons of reinforcing bar. the labor force reached a peak of 600 during the summer of 1921, and it was estimated that 108,000 man days had been expended on the bridge by the time of its completion. The total materials requirements had amounted to 12,000 railroad waggon loads.

The completion of the bridge was cause for celebration. The opening on August 3, 1922 was commemorated by a special Dedication Day in which it was named as a "Memorial" to "those who had died as pioneers, and soldiers in the Revolutionary, Civil and Foreign Wars". In spite of these higher ideals matters of the moment were more concerned with the costs of the enterprise-- "New Bridge Will Go Down in History as \$6,000,000 Affair". The total expenses in construction had amounted to \$4,995,517.93. The principal contractor had been paid \$2,738,883.86, rather less than their original quotation. Daniel O'Connell, the contractor for the earth works received \$138,110.97. The design and site engineers, Fay, Spofford & Thorndike, received \$306,572.33, the balance of the remaining expenditures were mainly accounted for by damage payments of approximately \$600,000. The money was raised by temporary loans which fell due in 1924. In the intervening period the townships of Hampden County had to reach an agreement of their "assessment" towards the costs. Once the assessments had been made twenty-year bonds were issued. The 4½-percent interest payments to be made on this issue were taken into account by the Springfield Republican when it calculated the cost of the bridge to the community. The final apportionment of costs was assessed as follows: Springfield, 51 percent; West Springfield, 12 percent; Holyoke, 3 percent; Westfield, 2 percent; Agawam, 1 percent. The balance was made up by a 31-percent contribution from Hampden County, levied upon other communities in the county. The final cost was given as \$6,635,214.04. Springfield was expected to make a payment of \$4,412,473, the Mayor of Springfield was unhappy about the escalation of costs, and it was reported that "he sees rake-offs".⁹

The bridge was rehabilitated in 1951 by the Massachusetts Department of Public Works. All material above the deck slab was removed. The granite block road surface was replaced with bituminous concrete. The precast copings were replaced in poured concrete. The pre-cast balustrading was removed and replaced by the existing metal railings. Various other works were undertaken on the pylons.

Today the bridge is the subject of renovation proposals. It is proposed to remove and replace all exterior portions of the reinforced concrete deck of the arched spans, together with other repairs to the original superstructure where necessary. It is proposed to replace the entire superstructure, and modify the substructure of that part of the bridge that crosses the rail lines.

HAMPDEN COUNTY MEMORIAL BRIDGE
HAER No. MA-114
(page 10)

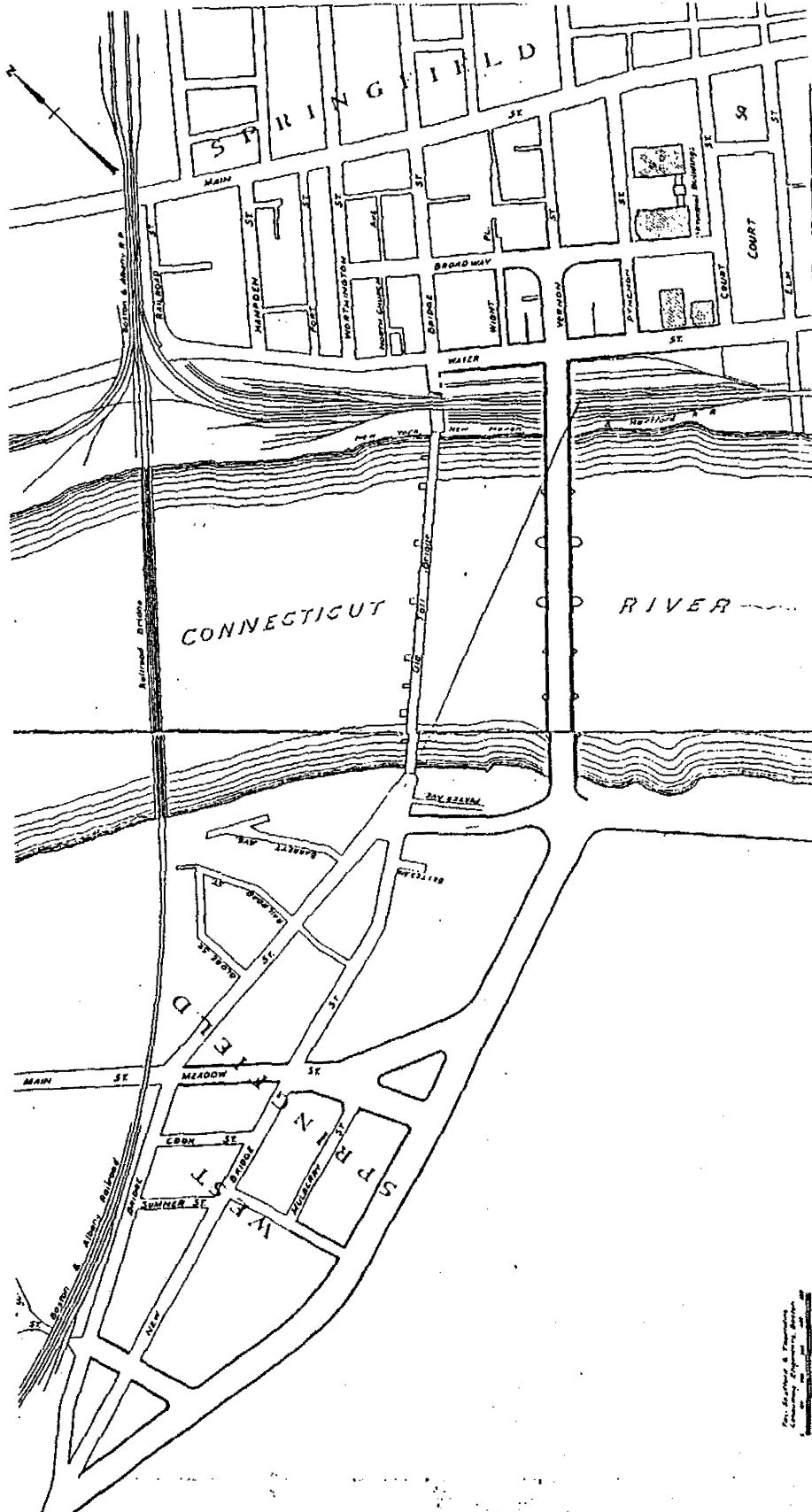
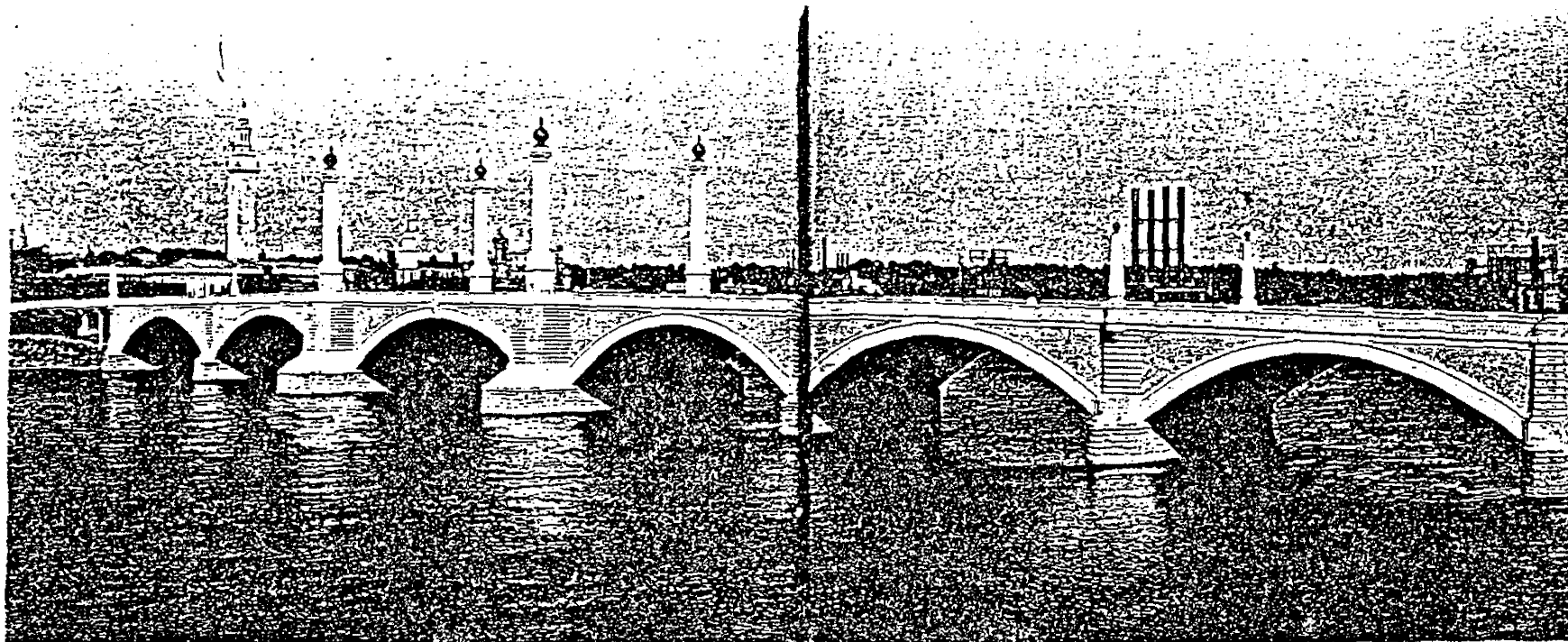


FIGURE 1: Plan from 1919 Hampden County Commissioners' Report.



HAMPDEN COUNTY MEMORIAL BRIDGE

SPANNING THE CONNECTICUT RIVER AT SPRINGFIELD, MASSACHUSETTS

FAY, SPOFFORD & THORNDIKE
DESIGNING AND SUPERVISING ARCHITECTS

H. P. CONVERSE & CO., CONTRACTORS
HAVEN & HOYT, ADVISORY ARCHITECTS

Approaches: DANIEL O'CONNELL & SONS—ADAMS RUSTON CONSTRUCTION CO.—GEORGE W. HAYDEN

TYPE OF BRIDGE

A highway bridge with reinforced concrete arch-ribbed spans across the river and reinforced concrete girder spans across the yard of the N. Y. N. H. & H. R. R.

HISTORY

Authorized by Chapter 251, General Acts of Massachusetts Legislature 1915.

Bridge Commission appointed Sept. 3, 1915.

Engineers appointed Jan. 29, 1916.

Bridge Contract let April 3, 1920; to be completed July 31, 1922.

Contract for bridge over river and railroad yard, \$2,254,883.

Total construction cost of bridge and approaches, exclusive of land takings and damages, approximately \$4,000,000.

LENGTH OF BRIDGE

Total 1500 feet (1200 feet over river and 300 feet over railroad).

Seven arch spans over river of length varying from 110 feet to 176 feet.

Nine girder spans over railroad each 33 1/4 feet long.

WIDTH OF BRIDGE

Total 80 feet, consisting of roadway 60 feet wide and two sidewalks each 10 feet wide.

HEIGHT OF BRIDGE ABOVE RIVER

Clearance of channel span, 46 feet above mean low water.

Roadway of channel span, 36 feet above mean low water.

Top of tower 140 feet above mean low water.

Channel span provides for future draw if required.

Gradient of approaches 3 1/4%; bridge built to a curved profile.

MATERIALS

Reinforced concrete with cast stone trim.

Piers faced with granite from a feet below mean low water to springing line of arches.

Road surfacing, granite block paving.

Sidewalk surfacing, granolithic.

FOUNDATION

Concrete on wood piles.

River bottom, coarse sand and gravel overlying hard gray clay.

Channel depth, 13 feet at mean low water.

UTILITIES

Provision for double track street railway, 42 inch water main, 24 inch and 16 inch gas mains, 30 high tension electric duct lines, 30 low tension electric duct lines.

HAMPDEN COUNTY MEMORIAL BRIDGE
HAER No. MA-114
(page 11)

FIGURE 2: Hampden County Memorial Bridge Dedication Souvenir Program,
August 8, 1922.

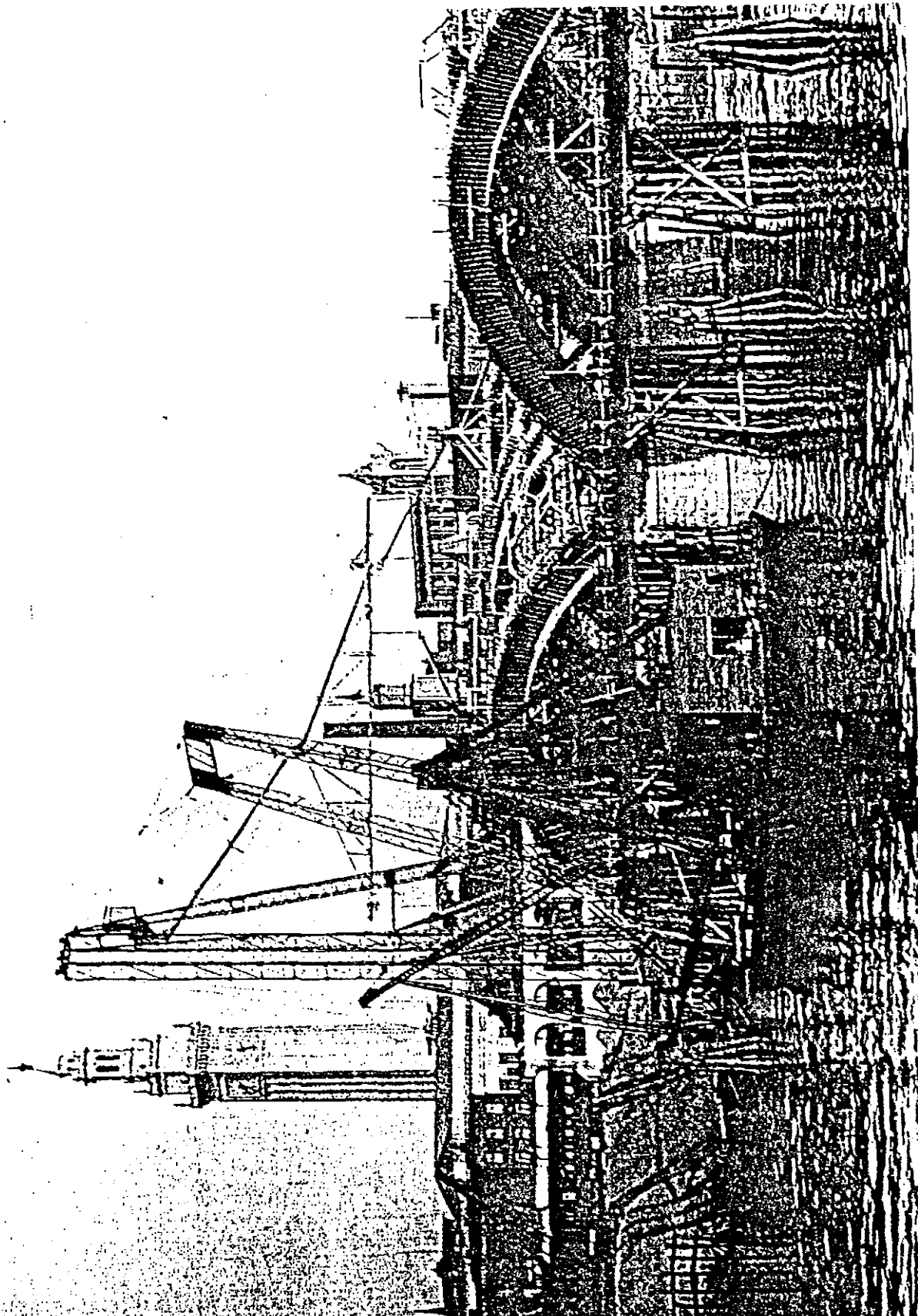


FIGURE 3: Construction photo, 1922.

ENDNOTES

1. "Engineers Who Designed the Hampden County Memorial Bridge," The Springfield Republican August 1922.
2. "Steel Reinforcement Used for Concrete Arch Centres," Engineering News-Record March 30, 1922.
3. Details of the early bridges across the Connecticut River are drawn from: Moses King, King's Handbook of Springfield, Massachusetts (Springfield, Massachusetts: James D. Gill, publisher, 1884); "Springfield Has Had Two Famous Bridges," The Springfield Republican July 30, 1922; and "Hampden County Memorial Bridge Dedication," Souvenir Program, August 3, 1922.
4. Hampden County Commissioners, Proceedings, 1917, located at the Connecticut Valley Museum Library, Springfield, Massachusetts.
5. The Connecticut Valley Museum Library has an excellent collection of photographs showing the construction process.
6. Public Works, May 27, 1922.
7. Ibid., May 20, 1922.
8. Engineering News-Record March 30, 1922, pp. 512-19; and, Public Works July 1, 1922.
9. The Springfield Republican, July 16 and 31, and August 2, 1924.

BIBLIOGRAPHY

"Engineers Who Designed the Hampden County Memorial Bridge," The Springfield Republican August 1922.

Hampden County Commissioners. Proceedings, 1917-22.

"Hampden County Memorial Bridge Dedication," Souvenir Program, August 3, 1922.

Hampden County Memorial Bridge historic photograph collection, Connecticut Valley Museum Library, Springfield, Massachusetts.

King, Moses, ed. King's Handbook of Springfield, Massachusetts. Springfield, Massachusetts: James D. Gill, Publisher, 1884.

The Springfield Republican, Springfield, Massachusetts, 1922-24.

"Steel Reinforcement Used for Concrete Arch Centres," Engineering News-Record March 30, 1922.

Massachusetts Cultural Resource Information System

Scanned Record Cover Page

Inventory No:	SPR.905
Historic Name:	North End Bridge
Common Name:	Park Avenue - Route 20A Bridge
Address:	Park Ave
City/Town:	Springfield
Village/Neighborhood:	Brightwood;
Local No:	2551;
Year Constructed:	1925
Architect(s):	American Bridge Company; Cox, P. T. Contracting Company; Hardesty, Shortridge; Thompson, G. Saxton; Waddell, J. A. L.; Waddell, J. A. L. Engineers;
Use(s):	Other Engineering; Other Transportation;
Significance:	Engineering; Transportation;
Area(s):	
Designation(s):	
Building Materials:	
Demolished	No



The Massachusetts Historical Commission (MHC) has converted this paper record to digital format as part of ongoing projects to scan records of the Inventory of Historic Assets of the Commonwealth and National Register of Historic Places nominations for Massachusetts. Efforts are ongoing and not all inventory or National Register records related to this resource may be available in digital format at this time.

The MACRIS database and scanned files are highly dynamic; new information is added daily and both database records and related scanned files may be updated as new information is incorporated into MHC files. Users should note that there may be a considerable lag time between the receipt of new or updated records by MHC and the appearance of related information in MACRIS. Users should also note that not all source materials for the MACRIS database are made available as scanned images. Users may consult the records, files and maps available in MHC's public research area at its offices at the State Archives Building, 220 Morrissey Boulevard, Boston, open M-F, 9-5.

Users of this digital material acknowledge that they have read and understood the MACRIS Information and Disclaimer (<http://mhc-macris.net/macrisdisclaimer.htm>)

Data available via the MACRIS web interface, and associated scanned files are for information purposes only. THE ACT OF CHECKING THIS DATABASE AND ASSOCIATED SCANNED FILES DOES NOT SUBSTITUTE FOR COMPLIANCE WITH APPLICABLE LOCAL, STATE OR FEDERAL LAWS AND REGULATIONS. IF YOU ARE REPRESENTING A DEVELOPER AND/OR A PROPOSED PROJECT THAT WILL REQUIRE A PERMIT, LICENSE OR FUNDING FROM ANY STATE OR FEDERAL AGENCY YOU MUST SUBMIT A PROJECT NOTIFICATION FORM TO MHC FOR MHC'S REVIEW AND COMMENT. You can obtain a copy of a PNF through the MHC web site (www.sec.state.ma.us/mhc) under the subject heading "MHC Forms."

Commonwealth of Massachusetts
Massachusetts Historical Commission
220 Morrissey Boulevard, Boston, Massachusetts 02125
www.sec.state.ma.us/mhc

This file was accessed on: Wednesday, July 22, 2026 at 8:40 AM

HISTORIC BRIDGE INVENTORY & EVALUATION

SPR. 905
WSG. 919

Date: July 12, 1982

Municipality Springfield/West Springfield S.H. x N.S.H.

Street Name & Route # Route 20A - "North End Bridge" (Park Ave.)

Over Conn. River

Street Name & Route #

Bridge No. S-24-3=W-21-2 Bridge Key # 012-246-000-101 Dist. 2

CRITERIA FOR DETERMINATION OF HISTORIC SIGNIFICANCE

I. Builders Contribution AASHTO rating: 80 (1-10-86)

Quantity

Unknown Several Many X

Name of Builder: American Bridge Co. - superstructure (1-10) P.T. Cox Contracting Co. - substructure (10 or more)
J.A.L. Waddell Consulting Engineers, N.Y., N.Y. } all from
Designer: Shorridge Handeely, Assoc. Engineer } plaque
G. Saxton Thompson, Assoc. Engineer

Plaque: Yes X No

I. AGE: Pre 1850 1850-1900 1900-1930 1924-1925

I. TECHNICAL 7 truss spans are all riveted single-intersection w/ alternate verticals deck trusses. 3 central spans are simple, the 2 outer spans at each end are continuous.

Bridge Type Warren deck truss (supported by concrete piers)

Bridge Width 54' C to C (4 lanes)

Total Length of Bridge 1108 feet #1 + 7 = 139' @; #2 + 6 = 164' 6" @

Number of Spans: 7 and 2 end Span Lengths #3, 4 + 5 = 163' @ (conc. end spans = 37' @)

Patented: Yes No Unknown

Load Carrying Capacity: Adequate Inadequate

Configuration: Unique Unusual Common

Types of Materials: spans: 7 deck truss; 2 concrete end spans

List Special Features and Modifications: 1984 plans by Day-side Eng Assoc. show 2 outer lines of trusses to be replaced by plate girders; new deck, etc. etc.

- 8 foot sidewalks cantilevered out from outer trusses

- Deck - concrete slab; handsome ^{Neo-Classical} concrete pylons and end walls on Springfield end only; those on W. Springfield end now removed.

- owned by Springfield and West Springfield; transferred to State in 1940's

- 1924 design (original) was in accordance with Mass. Department of Public Utilities' Specs. for "Bridges Carrying Electric RR's", dated 1922

- Repairs in 1948, 1951, 1952, 1978 included removal of original metal railings and lights on deck truss spans.

- Outer trusses and concrete deck - seriously deteriorated (2 outside lanes closed)

BH ✓
Plans 1924
Old BH ✓
Maint ✓

IV. ENVIRONMENTAL

Aesthetics: Unusual _____ Good _____ Common _____
Site Integrity: Retained _____ Violated _____
History of Bridge and Area:

Old Bridge History files in MDPW Bridge Section have early 20th century photos of previous bridge on this site - a metal lattice through truss structure - with the legend, "burned."

V. ECONOMICS

Owner: Municipal _____ County _____ State x Federal _____
R.R. _____

What is your recommendation?

Maintenance _____ Replacement x Rehabilitation _____
Are materials available for Rehabilitation: Yes _____ No _____
Is structure scheduled for replacement? Yes x No _____

I. PHOTOS - INDICATE SHOTS TAKEN

- | | |
|--------------------|------------------------|
| 1. Setting | 6. Elevation |
| 2. Builders Plaque | 7. Joint & Connections |
| 3. 3/4 View | 8. Machinery |
| 4. Thru View | 9. Decorative Features |
| 5. Under View | |

I. COMMENTS & CONCLUSIONS

1. In your judgement, does this bridge have historic value? Yes _____ No _____
2. Please explain your answer to #1

- (Steel Deck truss - Northampton/Hadley - Rt. 9 -
N-19-18/H-1-12' - built in 1937 -
same construction - but excellent condition)

7th. oldest of 18 single-intersection Warren deck truss bridges in the MDPW data; designed by an internationally known engineer (J.A.L. Waddell) and with an ornate, 4-pylon Neo-Classical entry on Springfield side. Much altered over the years, however, and the outer trusses on both sides of the bridge are presently being replaced by steel girders.

3. Additional Comments required on back of page.

Additional comments:

Preparer: _____
Title: _____
Date of Survey: _____

S. J. Roper
MDPW Historic Bridges Specialist
17 November 1986

HISTORIC BRIDGE INVENTORY & EVALUATION

SPR. 905
WSG. 919

Date: July 13, 1982

Municipality Springfield-West Springfield S.H. X N.S.H.

Street Name & Route # WEST STREET, ROUTE 20A

Over

Street Name & Route # CONNECTICUT RIVER

Bridge No. S-24-3= W-21-2 Bridge Key # 012 252 000 101 Dist. 2

CRITERIA FOR DETERMINATION OF HISTORIC SIGNIFICANCE

I. Builders Contribution

Quantity

Unknown X Several Many
(1-10) (10 or more)

Name of Builder: J. A. L. Waddell, NY. NY

Designer: UNKNOWN

Plaque: Yes X No.

II. AGE: Pre 1850 1850-1900 1900-1930 1924

III. TECHNICAL

Bridge Type STEEL TRUSS - DECK

Bridge Width 76.0'

Total Length of Bridge 1108.0' 139.0' 166.0' 166.0' 166.0'

Number of Spans: 7 Span Lengths 166.0' 166.0' 166.0' 139.0'

Patented: Yes No X Unknown

Load Carrying Capacity: Adequate Inadequate X

Configuration: Unique Unusual Common X

Types of Materials:

STEEL AND CONCRETE

List Special Features and Modifications:

BRIDGE RAIL REPLACED

LUMINARIES REPLACED

TROLLEY TRACK IN CENTER OF DECK REMOVED

IV. ENVIRONMENTAL

Aesthetics: Unusual _____ Good _____ Common X
 Site Integrity: Retained X Violated _____
 History of Bridge and Area: _____

V. ECONOMICS

Owner: Municipal _____ County _____ State X Federal _____
 R.R. _____

What is your recommendation?

Maintenance _____ Replacement _____ Rehabilitation X
 Are materials available for Rehabilitation: Yes X No _____
 Is structure scheduled for replacement? Yes _____ No X

VI. PHOTOS - INDICATE SHOTS TAKEN

x1. Setting	x 6. Elevation
x2. Builders Plaque	x 7. Joint & Connections
x3. 3/4 View	8. Machinery
x4. Thru View	x 9. Decorative Features
x5. Under View	

VII. COMMENTS & CONCLUSIONS

1. In your judgement, does this bridge have historic value? Yes _____ No X
2. Please explain your answer to #1

COMMON TYPE STRUCTURE

3. Additional Comments required on back of page.

Preparer: Thomas W. Field
 Title: Senior Civil Engineer
 Date of Survey: 7/1/82

INCLUDE TOPO SHEET SHOWING LOCATION

BRIDGES PREVIOUSLY REVIEWED BY M.H.C. -- CONCURRENCE REAFFIRMED

	<u>Municipality</u>	<u>On/Over</u>	<u>Br. Dept. No.</u>
Bridge:	Springfield/W. Springfield	US 20A, Park Ave/Connecticut R.	5-24-3/W-21-2

has previously been reviewed by the Massachusetts Historical Commission and was determined to be: Not Eligible
on 12/7/82.

After a review of all known bridges of comparable structural type identified in the M.D.P.W. statewide computerized database, the M.D.P.W. now reaffirms its concurrence with that initial determination.

Summary statement of significance:

7th oldest of 18 single-intersection Warren deck trusses in the MDPW data base; designed by an engineer of international stature (J.A.L. Waddell), and w/ an ornate, 4-pylon Neo-Classical entry on the Springfield side. Heavily altered and much deteriorated over the years, however, and the outer lines of trusses are currently being replaced by steel girders.

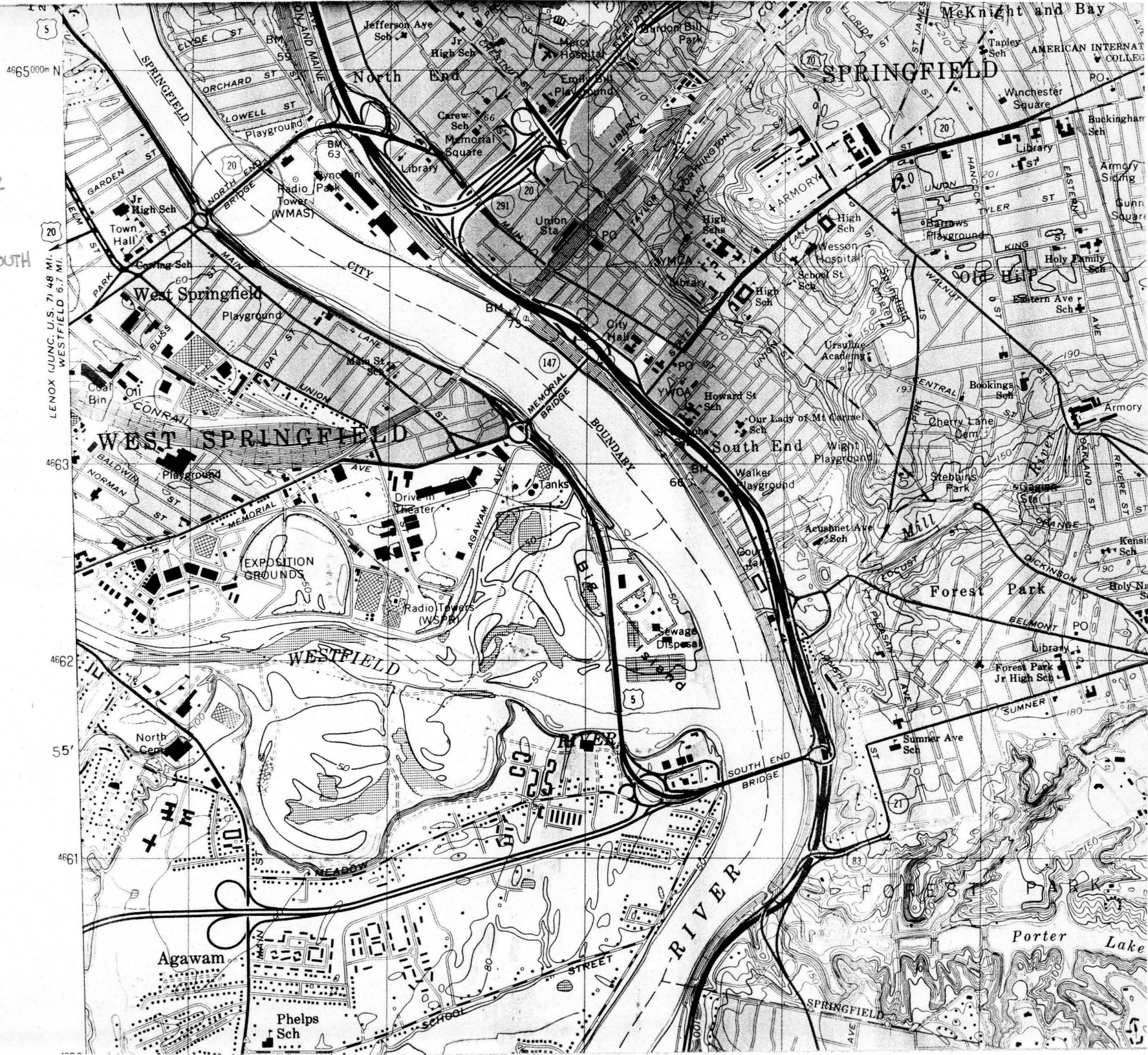
Statement prepared by: S. J. Roper, MDPW Historic Bridges Specialist

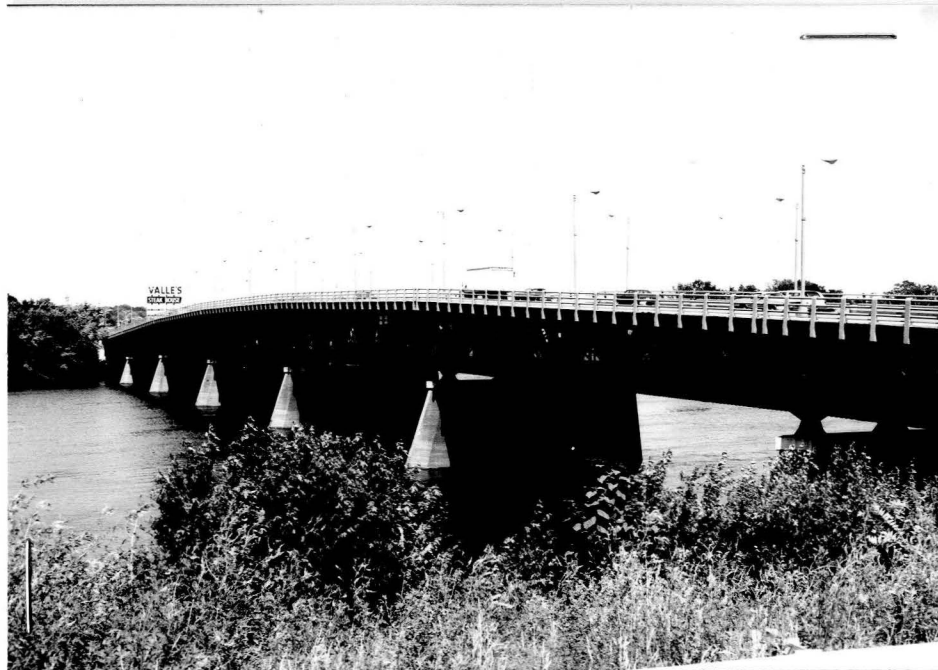
Date: 19 Nov. 1986

SPR 905 /
WSG.919

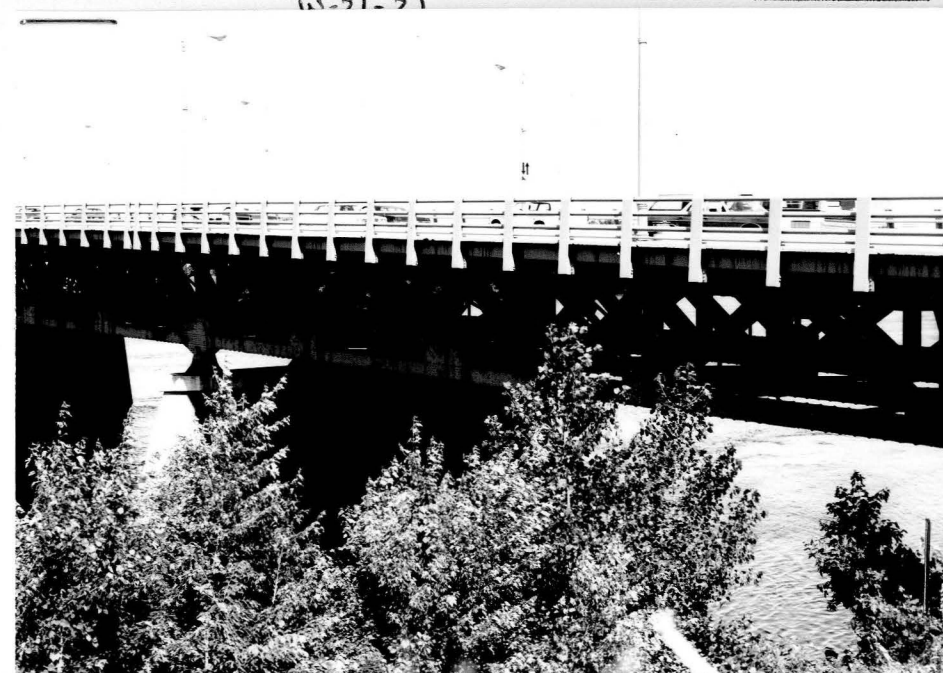
5-24-3/W-21-2

SPRINGFIELD SOUTH
QUAD.

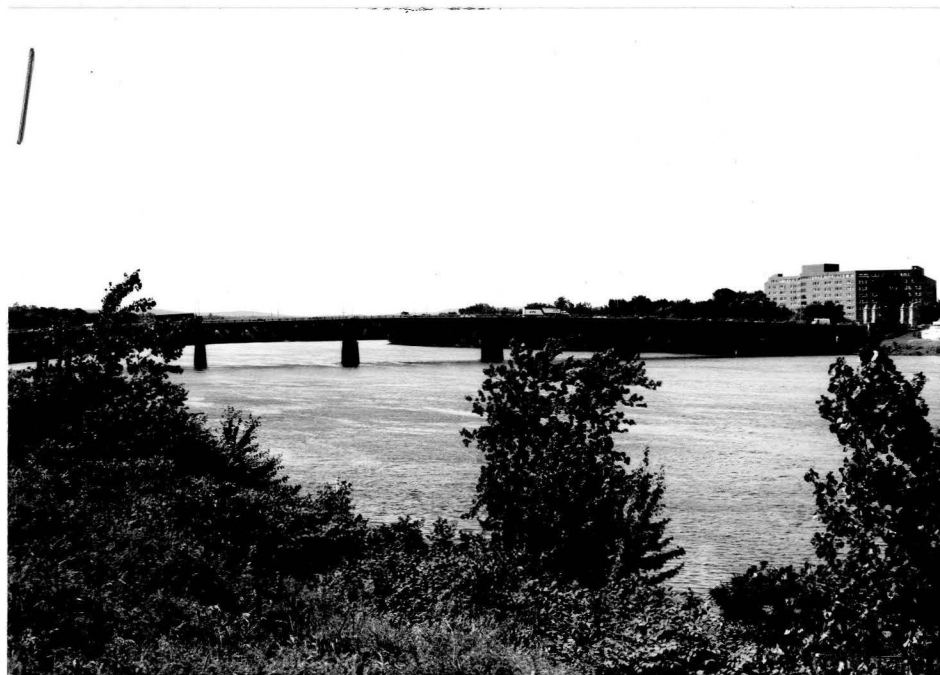




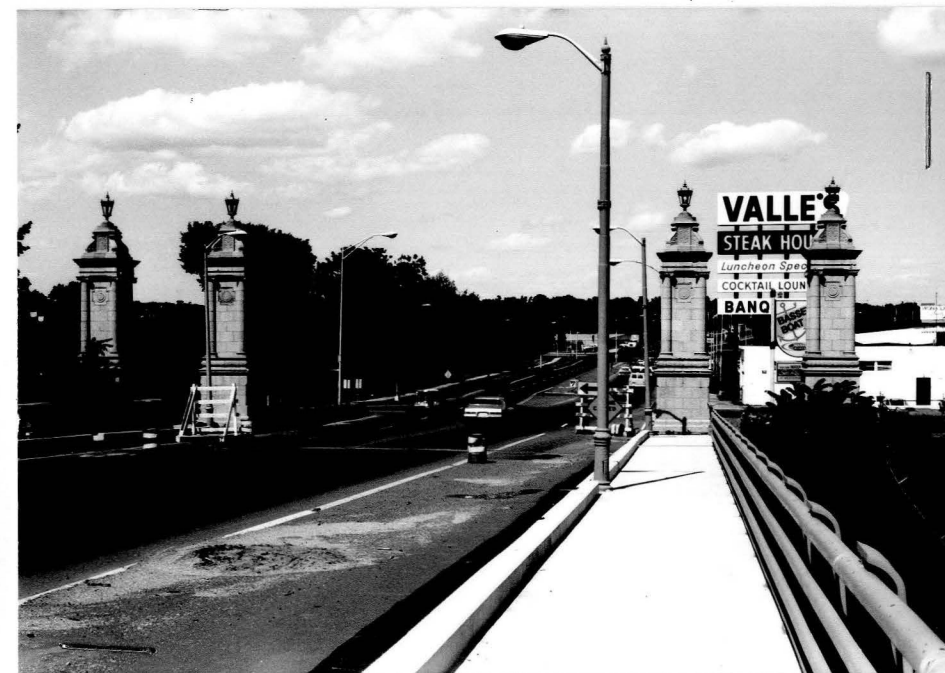
3/4 VIEW (6-30-82)



JOINTS & CONNECTIONS (6/30/82)



ELEVATION (6-30-82)



DECORATIVE FEATURES (6-30-82)



SETTING (SPRINGFIELD) (6-30-82)



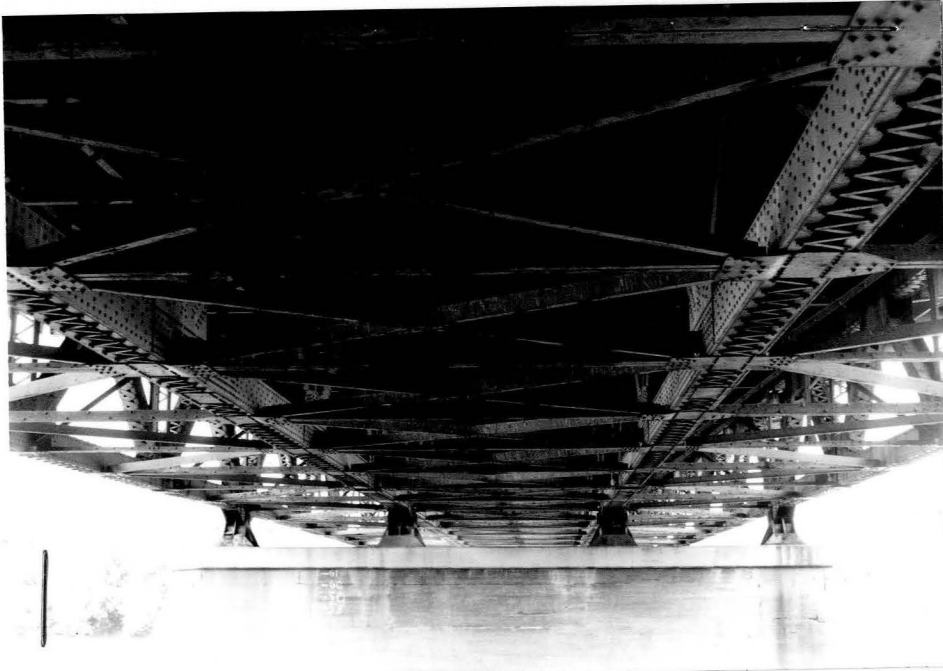
SETTING (W. SPRINGFIELD) (6-30-82)



THRU VIEW (6-30-82)



PLAQUE (6-30-82)



UNDER VIEW (6-30-82)



ON N END PARAPET, SPRINGFIELD SIDE
(2-28-1985)

TO: Betsy F.

RETURN TO REVIEWER BY

(DATE)

FROM: W. SmithDATE: 3/23/87TOWN: Springfield/W. SpringfieldPROPERTY: 5-24-3/W-21-2 U.S. 204. (Park Ave) over Connecticut River
(NAME AND ADDRESS)

1. Does this property meet the criteria for NR eligibility?

☐ YES☒ NO

M.H.C determined not eligible 12/7/82

A. Criteria

- a. events
- b. lives
- c. characteristics
- d. information

B. Local _____ State _____ National _____

2. Statement of Significance: OR Why not eligible?

1925 7 spans Warren Deck Truss withAlternate Verticalsdesign by Waddell (1 of 2 in style)severely Altered☐ DOE LETTER WRITTEN

FILED IN ER FILE _____

(DATE)

PS - pls. file

SPR .905
WSG. 919

MASSACHUSETTS
HISTORICAL
COMMISSION

COMMONWEALTH OF MASSACHUSETTS
Office of the Secretary of State

294 Washington Street
Boston, Massachusetts
02108
617-727-8470

MICHAEL JOSEPH CONNOLLY
Secretary of State

December 7, 1982

Mr. Justin L. Radlo, Chief Engineer
Massachusetts Department of Public Works
100 Nashua Street
Boston, Mass 02114

RE: Various Projects

Dear Mr. Radlo:

Please forgive our delay in responding. We have reviewed plans for the projects listed below and concur that they will not affect any significant historic resources.

Leominster: Water Street Bridge Replacement
Braintree: Pond and Washington Street
Hingham: Lincoln Street
Taunton: Route 140

→ Springfield/West Springfield Bridge (#S-24-3)

We do encourage you to retain the decorative entrance columns on the Springfield side of the bridge.

No further review of these actions is necessary in compliance with Advisory Council Regulations.

If you should have any questions, please contact Joe Orfant of my staff.

Sincerely,

Valerie Talmage

Valerie Talmage
Acting State Historic Preservation Officer
Acting Executive Director
Massachusetts Historical Commission

cc: Betty Amadon, Environmental Section

VT/lk

Greenfield

G-12-66

B & M Railroad over Green River

1918 three spans Warren deck truss with verticals. Bridge is altered; however, it is adjacent to pending National Register property (Newton St. School).

Huntington

H-27-20

State Rte. 112 over Westland River

1940 two spans Warren deck truss with verticals. Less than 50 years old.

Pepperell

P-6-13

Prescott St. over Nissittisit River

1932 double-intersection Warren deck truss. A non-standard design composed of reused steel forming non-identical trusses.

North Adams

N-14-18

State Rte. 8 over Hoosic River & B & M R.R.

1941 one span Warren deck truss with verticals. Less than 50 years old. Non-contributing element within Freight Yard National Register Historic District.

Springfield/W. Springfield

S-24-3/W-21-2

U.S. Rte. 204/Park Ave. over Connecticut River

1925 seven spans Warren deck truss with alternate verticals. Bridge was previously reviewed by MHC and determined not eligible on December 7, 1982.

Williamstown

W-37-13

U.S. Rte. 7 over Hoosic River and B & M Railroad

1933 Main span Warren deck truss. Bridge was previously reviewed by MHC and determined not eligible on July 7, 1980.

Worcester

W-44-43

Penn Central R.R. over Southbridge St.

1918 single-intersection with verticals Warren deck truss. Typical example of a common type. Located in turn-of-century industrial area. Survey information insufficient to judge at present whether National Register-eligible area exists or if bridge would contribute to a National Register historic district..

The following bridges did not appear to meet National Register Criteria. However, the bridges are within an historic district or potentially eligible historic district, and plans for replacement should take into consideration potential impact to adjacent properties.

Lowell L-15-10a School St. over Pawtucket Canal

1911 one span Warren deck truss (one of twenty-four spans).

This bridge was previously reviewed by MHC on February 23, 1987, and determined not eligible, but located within the Locks and Canals National Register Historic District.

Monroe/Rowe M-26-2/R-10-2 Depot St. over Deerfield River

1938 single-intersection with alternate verticals Warren deck truss. Located between two 19th century mill complexes, about which we have no survey information at present, but which may in the future be found to be potentially National Register-eligible area.

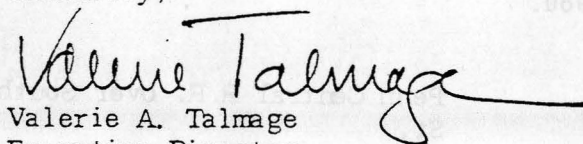
The following bridge did not appear to meet National Register criteria for individual listing. However, the bridge is eligible for listing in the National Register as a contributing element in the pending Hadley Center Historic District.

Hadley/Northampton H-1-12/N-19-18 State Rte. 9 over Connecticut River

1937 five spans single-intersection with verticals Warren deck truss. Art Deco pylons.

If you have any questions, please feel free to contact William Smith of this office.

Sincerely,



Valerie A. Talmage
Executive Director
State Historic Preservation Officer
Massachusetts Historical Commission

xc: Frank Bracaglia, MDPW

VAT/WS/dr



WS
SPR. 905
WSG. 919

The Commonwealth of Massachusetts

Office of the Secretary of State
Michael Joseph Connolly, Secretary

Massachusetts Historical Commission

Valerie A. Talmage

Executive Director

State Historic Preservation Officer

July 8, 1987

Mr. James A. Walsh
Division Administration
Federal Highway Administration
Transportation Systems Center
55 Broadway - 10th Floor
Cambridge, MA 02142

ATTN: Mr. H. Pearlman

RE: Warren Deck Trusses, National Register Eligibility

Dear Mr. Walsh:

The Massachusetts Historical Commission has reviewed the historic bridge inventory forms prepared by the Massachusetts Department of Public Works. The MHC concurs with the preliminary finding of the MDPW that the following bridges appear to meet criteria for listing in the National Register of Historic Places.

Deerfield/Greenfield	D-6-6/G-12-28	B & M R.R. over Deerfield River & Montague City Rd.
----------------------	---------------	---

1912 four spans Warren Deck truss with alternate verticals. Virtually unaltered landmark Long Span Railroad Bridge. Incorporates detailed abutments and piers from earlier bridge on this site.

Canton	C-2-9	Chapman St. over Conrail
--------	-------	--------------------------

1888 wrought iron Warren Deck truss bridge was previously reviewed by the MHC and was determined to be potentially eligible (August 30, 1986).

Gill/Montague	G-4-10/M-28-31	Avenue A over Connecticut River
---------------	----------------	---------------------------------

1937 three spans single-intersection Warren deck truss with verticals. A landmark vernacular Art Deco bridge has the longest (449 feet) deck truss span in the state. This bridge is a contributing element within Turners Falls National Register Historic District.

Ludlow/Springfield

L-16-8/S-24-2

State Rte. 21 (Center St.) over
Chicopee River

1930 main span is a single-intersection with verticals Warren deck truss. Six approaches are deck plate girders. Retains most of its Neo Classical light standards and concrete guard rails designed by Waddell & Hardesty.

The MHC concurs with the preliminary findings of MDPW that the following bridge does not appear to meet criteria for listing in the National Register of Historic Places.

Agawam/Springfield

A-5-1/S-24-5

U.S. Rte. 5 over Connecticut River

1953 seven spans Warren deck truss with verticals. Less than 50 years old.

Dalton

D-1-2

Housatonic St. over Housatonic
River

1962 Warren deck truss with alternate verticals. Less than 50 years old.

Deerfield/Greenfield

D-6-2/G-12-3

U.S. Rte. 5 over Deerfield River

1930 Warren deck truss with alternate verticals. Art Deco details, typical example of common type.

Deerfield/Montague

D-6-22

McClellan Farm Rd. over
Connecticut River

1918 three spans Warren deck truss with verticals. Altered and undistinguished example of this type.

Deerfield/Sunderland

D-6-3/S-32-1

State Rte. 116 over Connecticut
River

1937 six spans Warren deck truss with verticals. Typical Art Deco design.



Springfield Historical Commission



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

APPLICATION CHECKLIST

PROPERTY ADDRESS: 140 Chestnut St Unit 402, Springfield MA

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>Apartment Triangle</i>	DECISION:
DATE RECEIVED: <i>June 22, 2026</i>	DECISION DATE:
HEARING DATE: <i>July 16, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>July 2, 2026</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>July 2, 2026</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: 140 Chestnut St Unit 402, Springfield MA

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

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: [REDACTED]		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Don Silverman		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: [REDACTED]	REPRESENTATIVE/CONTRACTOR NAME: Robert LeBlanc	
OWNER EMAIL ADDRESS: [REDACTED]	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: 617-618-5008	
PROPERTY CODE: 02750-0576	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: RBABOSTON@GOPERMITS.ORG	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): REMOVE & REPLACE 5 WINDOWS; LIKE FOR LIKE SIZE; NO STRUCTURAL CHANGES		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.

PROPERTY OWNER'S SIGNATURE

06/22/2026

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:

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 INFORMATION:

HISTORICAL PROJECT – WINDOW REPLACEMENT

Home Owner –Don Silverman

140 Chestnut St Unit 402, Springfield MA



RENEWAL BY ANDERSEN - Boston Region

Existing Front Facade



Proposed Front Facade



Existing left Facade



Proposed left Facade



Installation Package

Units 101-105 Will Be The Same Specification

105	Living room	42 "	71 "	Window: Acclaim™ Double-Hung (DG), 1:1, Flat Sill, Insert Frame, Traditional Checkrail, Exterior Black, Interior Black Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40 Glass: All Sash: High Performance SmartSun Glass, No Pattern Hardware: Black, Standard Color Extra Lock Screen: No Screen Grille Style: No Grille Misc: None Construction: 4th Story install (1), LSWP Windows (1) Material: None
		42-3/8"	70"	



Replace Old Expectations

We believe your Renewal by Andersen® experience is about more than just windows. It's about caring for you and your home, every step of the way.

We own our entire process, from start to finish. What does that mean for you? It means we listen. It means we measure, we build, and we install. And it means we promise to stand by our product, today, tomorrow, and years into the future.

A Heritage That Looks to the Future

For more than a century, Andersen® products and patents have revolutionized the window and door industry. We pair that legacy of quality and innovation with a skilled team of specialists who are dedicated to making sure your window replacement is the best home improvement project you've ever done.

From Our Family to Yours

Your home is unique. It shouldn't be treated like every other house on the block. This is the place where you and your family are making memories and celebrating moments, both big and small. We want to make sure your new windows suit your home life.

You only want to replace your windows one time, so who you choose to do your project is important. When you work with Renewal by Andersen, you know you'll get an exclusive product that is durable, customizable, and beautiful. And you know we'll take care of you — and your home — from start to finish, and beyond.

the best **PEOPLE**

a superior **PROCESS**

an exclusive **PRODUCT**

From consultation to installation, Renewal by Andersen offers one-company accountability backed by a legacy of excellence. We're proud to work with the best people, offer a superior, start-to-finish replacement process, and provide you with exclusive, industry-leading products. **THAT'S RENEWAL BY ANDERSEN SIGNATURE SERVICE.**



WHY THEY NEED TO BE REPLACED

The homeowner is looking to update and replace 5 Windows.

The windows are located in the front and left side of the home. The homeowner is looking to replace the current windows with new Andersen Fibrex Acclaim Windows to preserve the current styles and match neighboring properties. The current windows are hard to open and close, drafty and not energy efficient.

The homeowner would like to update the windows to modern standards and the ease of operation as well as increase the windows energy efficiency while maintaining the traditional look of the home.

Our goal is to keep to the original look of the windows while updating the design so that the homeowners can use this room with more comfort and ease.

Our Product – Fibrex Material



Click on “Fibrex Material” to watch How Fibrex is Made

Fibrex 20 Year Durability Study

Click on “Durability Study” to watch 20 Year Durability Test

What are Renewal by Andersen® windows made of?

All of our windows are made of Fibrex® material, a revolutionary composite made from reclaimed wood fiber blended with a polymer. This gives our windows the strength and durability of wood and the low-maintenance features of vinyl, while greatly limiting thermal transmittance that can be found in other window materials such as metal.

Unlike many other window materials, Fibrex composite material won't flake, rust, blister, peel, crack, pit, or corrode.¹ It is also two times stronger than vinyl and resists warping and bowing. Never worry about scraping or painting your windows again.

ENGINEERED WITH
FIBREX
MATERIAL

ANDERSEN
EXCLUSIVE
FEATURE

Smart Materials

Fibrex material is twice as strong as vinyl, so weathertight seals stay weathertight.

Color Choice

Our unique process fuses color to Fibrex material for long-lasting beauty. And it offers dark exterior colors not available on most other replacement windows.

Exceptional Comfort

Fibrex material blocks thermal transfer nearly 700 times better than aluminum to help reduce heating and cooling bills.

Outstanding Durability

Fibrex material retains its stability and rigidity in all climates.¹

	FIBREX MATERIAL	VINYL	ALUMINUM	WOOD
Insulating Properties	✓	✓		✓
Low Maintenance	✓	✓	✓	
Resistance to Decay/Corrosion	✓	✓		
Structural Rigidity	✓		✓	✓
Durability	✓		✓	✓
Color Choices	✓			✓
Dark Color Performance	✓		✓	✓



Home Improvement Agreement and Payment Terms

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

Don Silverman

05/28/26

BUYER(S) NAME

CONTRACT DATE

BUYER(S) STREET ADDRESS

PRIMARY NUMBER

SECONDARY NUMBER

PRIMARY EMAIL

SECONDARY EMAIL

NOTES:

Buyer(s) hereby jointly and severally agrees to purchase the products and/or services of Renewal by Andersen LLC d/b/a Renewal By Andersen of Boston ("Contractor"), in accordance with the terms and conditions described in this Home Improvement Agreement and Payment Terms, any documents listed in the Table of Contents, and any other document attached to this Home Improvement Agreement, the terms of which are all agreed to by the parties and incorporated herein by reference (collectively, this "Agreement"). Buyer(s) hereby agrees to sign a completion certificate after Contractor has completed all work under this Agreement.

TOTAL CONTRACT PRICE: \$19,931

By signing this Agreement, you acknowledge that the Balance Due, and the Amount Financed must be made by personal check, bank check, credit card, or cash.

DOWN PAYMENT: \$0

BALANCE DUE: \$19,931

Estimated Start:
6-10 weeks

Estimated Completion:
1-2 days

AMOUNT FINANCED: \$19,931

METHOD OF PAYMENT: Financing

We schedule installations based on the date of the signed contract and secondarily on the date in which we complete the technical measurements. The installation date that we are providing at this time is only an estimate. We will communicate an official date and time at a later date. Rain and extreme weather are the most common causes for delay.

NOTES:

Buyer(s) agrees and understands that this Agreement constitutes the entire understandings between the parties and that there are no verbal understandings changing or modifying any of the terms of this Agreement. No alterations to or deviations from this Agreement will be valid without the signed, written consent of both the Buyer(s) and Contractor. Buyer(s) hereby acknowledges that Buyer(s) 1) has read this Agreement, understands the terms of this Agreement, and has received a completed, signed, and dated copy of this Agreement, including the two attached Notices of Cancellation, on the date first written above and 2) was orally informed of Buyer's right to cancel this Agreement.

NOTICE TO BUYER: Do not sign this contract if blank. You are entitled to a copy of the contract at the time you sign.

YOU, THE BUYER, MAY CANCEL THIS TRANSACTION AT ANY TIME NOT LATER THAN MIDNIGHT OF 06/01/2026 OR THE THIRD BUSINESS DAY AFTER THE DATE OF THIS TRANSACTION, WHICHEVER DATE IS LATER. SEE THE ATTACHED NOTICE OF CANCELLATION FORM FOR AN EXPLANATION OF THIS RIGHT.

SIGNATURE OF SALES PERSON:

SIGNATURE OF CUSTOMER 1:

SIGNATURE OF CUSTOMER 2:

PRINT NAME OF SALES PERSON

Don Silverman

PRINT NAME

PRINT NAME



Itemized Order Receipt

DBA: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC
HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

ID#:	ROOM:	SIZE:	DETAILS:	PRICE:
101	Bedroom 1		Window: Acclaim™ Double-Hung (DG) 1:1 Slope Sill, Insert Frame Traditional Checkrail Exterior Black Interior Black Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40 Glass: All Sash: High Performance SmartSun Glass, No Pattern Hardware: Black Standard Color Extra Lock Screen: No Screen Grille Style: No Grille Misc: None	
102	Bedroom 1		Window: Acclaim™ Double-Hung (DG) 1:1 Slope Sill, Insert Frame Traditional Checkrail Exterior Black Interior Black Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40 Glass: All Sash: High Performance SmartSun Glass, No Pattern Hardware: Black Standard Color Extra Lock Screen: No Screen Grille Style: No Grille Misc: None	
103	Living room		Window: Acclaim™ Double-Hung (DG) 1:1 Slope Sill, Insert Frame Traditional Checkrail Exterior Black Interior Black Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40 Glass: All Sash: High Performance SmartSun Glass, No Pattern Hardware: Black Standard Color Extra Lock Screen: No Screen Grille Style: No Grille Misc: None	
104	Living room		Window: Acclaim™ Double-Hung (DG) 1:1 Slope Sill, Insert Frame Traditional Checkrail Exterior Black Interior Black Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40 Glass: All Sash: High Performance SmartSun Glass, No Pattern Hardware: Black Standard Color Extra Lock Screen: No Screen Grille Style: No Grille Misc: None	



DBA: RENEWAL BY ANDERSEN OF BOSTON
 Legal Name: Renewal by Andersen LLC
 HIC# 170810
 30 Forbes Road | Northborough, MA 01532
 Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

ID#:	ROOM:	SIZE:	DETAILS:	PRICE:
105	Living room		Window: Acclaim™ Double-Hung (DG) 1:1 Slope Sill, Insert Frame Traditional Checkrail Exterior Black Interior Black Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40 Glass: All Sash: High Performance SmartSun Glass, No Pattern Hardware: Black Standard Color Extra Lock Screen: No Screen Grille Style: No Grille Misc: None	
WINDOWS: 5	PATIO DOORS: 0	ENTRY DOORS: 0	SPECIALTY: 0	MISC: 0
PROJECT TOTAL				\$19,931



Renewal by Andersen is committed to our customers' safety by complying with the rules and lead-safe work practices specified by the EPA.



Payment Authorization Form

DBA: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC
HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

Don Silverman

BUYER NAME

[Redacted]

Springfield

ADDRESS

[Redacted]

CITY

[Redacted]

STATE

24 months no interest

ZIP CODE

[Redacted]

PHONE NUMBER 1

[Redacted]

PHONE NUMBER 2

\$19,931

FINANCE PROGRAM*

[Redacted]

FINANCE PLAN #*

[Redacted]

CONTRACT BALANCE

SALES REPRESENTATIVE

APPLICATION ID

OFFER EXPIRATION DATE

* If your financing is pending, the Finance Program and Finance Plan Number are subject to change

PAYMENT SCHEDULE (\$19,931) SUBJECT TO CHANGE ORDERS AS PROVIDED BELOW*

	CASH DEPOSIT (1)	FINANCED DEPOSIT (2)	SUBSTANTIAL COMPLETION (3)
FINANCING	\$0	\$6,577.23	\$13,353.77

* **CHANGE ORDERS:** Buyer(s) understand that any Change Orders approved by Buyer(s) may affect the contract price as provided in the Change Order. Any Change Order that affects the contract price will amend the amount of the deposit and/or other payment amounts in the Payment Authorization Schedule above.

(1) CASH DEPOSIT: Renewal by Andersen requires thirty-three percent (33%) of the purchase price paid at Agreement Signing. Buyer(s) may pay through the following payment methods: cash, check, debit card, or credit card ("Cash Deposit").

(2) FINANCED DEPOSIT: Renewal by Andersen requires thirty-three percent (33%) of purchase price advanced when the windows and/or doors are ordered. For Buyer(s) that receive approved financing through a Renewal by Andersen lender ("Lender"), the Lender will advance this required amount directly to Renewal by Andersen ("Financed Deposit"). For open-end credit loans, the Lender will not extend credit to the Buyer(s) and. For all financings, the Buyer(s) will not owe any payments until Substantial Completion (as defined in Item 3 below) and the Lender has delivered the remaining balance to Renewal by Andersen.

(3) SUBSTANTIAL COMPLETION: Renewal by Andersen requires the final payment (which shall be delivered by the Lender in the case of projects financed through Lenders) on the day of installation when all windows and/or doors included in this Agreement have been installed into their openings and any interior and exterior trims have been applied ("Substantial Completion"). If there are Change Orders associated with the project covered by this Agreement, the difference in the Job Amount will be reconciled in the final payment requested from the Buyer (or the Lender in the case of a project financed by a Lender) upon Substantial Completion.

[Redacted]

[Redacted]

[Redacted]

[Redacted]



Payment Authorization Form

DBA: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC
HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

BY SIGNING BELOW, I/WE, THE BUYER(S):

- 1. Buyer(s) authorize Renewal by Andersen to transact payments, including with Lenders, based on the amount(s), form of payment(s), and timing as specified in the Payment Authorization Schedule above and, if applicable, final payments in the amount requested by Renewal by Andersen upon the execution of a Change Order.
- 2. For Buyers that finance a project through a Lender, Buyer(s): (i) understand that the Lender will disburse the Financed Deposit and final payment at Substantial Completion to Renewal by Andersen as specified in the Payment Authorization Schedule, (ii) understand that the Lender will not extend credit to the Buyer(s) for open-end credit loans, (iii) the Buyer(s) will not owe any payments until Substantial Completion, and (iv) acknowledge the use of the loan proceeds for payment upon Substantial Completion will constitute reaffirmation by all Buyer(s) of the loan agreement with the Lender.
- 3. Buyer(s) agree to notify Renewal by Andersen in writing of any change in payment method at least three business days' prior to the respective payment due date.
- 4.

[Redacted]

Don Silverman

BUYER NAME

[Redacted]

SIGNATURE

05/28/26

DATE

[Redacted]

[Redacted]

[Redacted]

[Redacted]



Notice of Cancellation

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

You, the buyer(s) may cancel this transaction at any time prior to midnight on 06/01/2026

NOTICE OF CANCELLATION

Date of Transaction: 05/28/26. You may cancel this transaction, without any penalty or obligation, before midnight on 06/01/2026 or the third business day after the date of this transaction, whichever date is later. If you cancel, any property traded in, any payments made by you under the Contract or Sale, and any negotiable instrument executed by you will be returned within 10 business days following receipt by the Seller of your cancellation notice, and any security interest arising out of the transaction will be canceled. If you cancel, you must make available to the Seller at your residence, in substantially as good condition as when received, any goods delivered to you under this Contract or Sale; or you may, if you wish, comply with the instructions of the Seller regarding the return shipment of the goods at the Seller's expense and risk. If you do make the goods available to the Seller and the Seller does not pick them up within 20 days of the date of your Notice of Cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the Seller, or if you agree to return the goods to the Seller and fail to do so, then you remain 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, or send a telegram, to:

dba: Renewal By Andersen of Boston

Legal Name: Renewal by Andersen LLC

30 Forbes Road

Northborough, MA 01532

Phone: (508)351-2200

Fax: (508)986-7072

Email: rbabostonbooking@andersencorp.com

NOT LATER THAN MIDNIGHT OF 06/01/2026
OR THE THIRD BUSINESS DAY AFTER THE DATE
OF THIS TRANSACTION, WHICHEVER DATE IS LATER.

I HEREBY CANCEL THIS TRANSACTION

NOTICE OF CANCELLATION

Date of Transaction: 05/28/26. You may cancel this transaction, without any penalty or obligation, before midnight on 06/01/2026 or the third business day after the date of this transaction, whichever date is later. If you cancel, any property traded in, any payments made by you under the Contract or Sale, and any negotiable instrument executed by you will be returned within 10 business days following receipt by the Seller of your cancellation notice, and any security interest arising out of the transaction will be canceled. If you cancel, you must make available to the Seller at your residence, in substantially as good condition as when received, any goods delivered to you under this Contract or Sale; or you may, if you wish, comply with the instructions of the Seller regarding the return shipment of the goods at the Seller's expense and risk. If you do make the goods available to the Seller and the Seller does not pick them up within 20 days of the date of your Notice of Cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the Seller, or if you agree to return the goods to the Seller and fail to do so, then you remain 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, or send a telegram, to:

dba: Renewal By Andersen of Boston

Legal Name: Renewal by Andersen LLC

30 Forbes Road

Northborough, MA 01532

Phone: (508)351-2200

Fax: (508)986-7072

Email: rbabostonbooking@andersencorp.com

NOT LATER THAN MIDNIGHT OF 06/01/2026
OR THE THIRD BUSINESS DAY AFTER THE DATE
OF THIS TRANSACTION, WHICHEVER DATE IS LATER.

I HEREBY CANCEL THIS TRANSACTION

BUYER SIGNATURE

DATE

05/29/26

BUYER SIGNATURE

DATE

Page 6 / 39



Notice of Cancellation

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

You, the buyer(s) may cancel this transaction at any time prior to midnight on 06/01/2026

NOTICE OF CANCELLATION

Date of Transaction: 05/28/26. You may cancel this transaction, without any penalty or obligation, before midnight on 06/01/2026 or the third business day after the date of this transaction, whichever date is later. If you cancel, any property traded in, any payments made by you under the Contract or Sale, and any negotiable instrument executed by you will be returned within 10 business days following receipt by the Seller of your cancellation notice, and any security interest arising out of the transaction will be canceled. If you cancel, you must make available to the Seller at your residence, in substantially as good condition as when received, any goods delivered to you under this Contract or Sale; or you may, if you wish, comply with the instructions of the Seller regarding the return shipment of the goods at the Seller's expense and risk. If you do make the goods available to the Seller and the Seller does not pick them up within 20 days of the date of your Notice of Cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the Seller, or if you agree to return the goods to the Seller and fail to do so, then you remain 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, or send a telegram, to:

dba: Renewal By Andersen of Boston

Legal Name: Renewal by Andersen LLC

30 Forbes Road

Northborough, MA 01532

Phone: (508)351-2200

Fax: (508)986-7072

Email: rbabostonbooking@andersencorp.com

NOT LATER THAN MIDNIGHT OF 06/01/2026
OR THE THIRD BUSINESS DAY AFTER THE DATE
OF THIS TRANSACTION, WHICHEVER DATE IS LATER.

I HEREBY CANCEL THIS TRANSACTION

NOTICE OF CANCELLATION

Date of Transaction: 05/28/26. You may cancel this transaction, without any penalty or obligation, before midnight on 06/01/2026 or the third business day after the date of this transaction, whichever date is later. If you cancel, any property traded in, any payments made by you under the Contract or Sale, and any negotiable instrument executed by you will be returned within 10 business days following receipt by the Seller of your cancellation notice, and any security interest arising out of the transaction will be canceled. If you cancel, you must make available to the Seller at your residence, in substantially as good condition as when received, any goods delivered to you under this Contract or Sale; or you may, if you wish, comply with the instructions of the Seller regarding the return shipment of the goods at the Seller's expense and risk. If you do make the goods available to the Seller and the Seller does not pick them up within 20 days of the date of your Notice of Cancellation, you may retain or dispose of the goods without any further obligation. If you fail to make the goods available to the Seller, or if you agree to return the goods to the Seller and fail to do so, then you remain 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, or send a telegram, to:

dba: Renewal By Andersen of Boston

Legal Name: Renewal by Andersen LLC

30 Forbes Road

Northborough, MA 01532

Phone: (508)351-2200

Fax: (508)986-7072

Email: rbabostonbooking@andersencorp.com

NOT LATER THAN MIDNIGHT OF 06/01/2026
OR THE THIRD BUSINESS DAY AFTER THE DATE
OF THIS TRANSACTION, WHICHEVER DATE IS LATER.

I HEREBY CANCEL THIS TRANSACTION

BUYER SIGNATURE

DATE

BUYER SIGNATURE

DATE



RENEWAL
by **ANDERSEN**
FULL-SERVICE WINDOW & DOOR REPLACEMENT

Acclaim™ Replacement Windows Products and Installation Transferable Limited Warranty

Units Installed After June 1, 2024

Renewal by Andersen® Limited Warranty and Dispute Resolution Process

IMPORTANT: Please carefully read the Dispute Resolution Process that appears in this document after the Limited Warranty. The Dispute Resolution Process includes class-action and jury trial waivers that affect your legal rights. To opt out of these waivers, you must visit our website at www.renewalbyandersen.com/optout and complete the opt-out form within one year from the original installation date of your Renewal by Andersen® products. The opt-out only applies to the terms of the Dispute Resolution Process.

Transferable Limited Warranty on Glass

The glass in Renewal by Andersen® Acclaim™ factory glazed replacement windows including High-Performance Low-E4® glass, High-Performance Low-E4® Sun glass, High-Performance Low-E4® SmartSun™ glass, High-Performance HeatLock® glass, High-Performance Low-E4 PassiveSun® glass patterned glass (including obscure, fern, reed, and cascade designs), Finelight™ grilles, divided light grilles, and tempered versions of these glass options, is warranted to be free from defects in manufacturing, materials, and workmanship for a period of twenty (20) years from the original installation date. It is also warranted not to develop, under normal conditions, any material obstruction of vision or broken glass resulting from manufacturing defects or as a result of premature failure of the glass or organic seal for a period of twenty (20) years from the original installation date. This limited warranty on glass does not apply to special order glazings, discontinued glass, art glass, insulated art glass, impact-resistant glass, or glass that is not factory installed by Renewal by Andersen.

In the event a glass failure occurs as a result of a defect in manufacturing, materials, or workmanship within the limited warranty period, Renewal by Andersen, at its option, will: (1) provide and install the appropriate replacement glass product or (2) provide a factory-authorized repair to the existing glass. Such replacement or repair is warranted for the remainder of the original limited warranty period.

Transferable Limited Warranty on Fibrex® Material Components

The Fibrex® material components of your Renewal by Andersen Acclaim replacement windows (including frame, sash, and exterior grilles) are warranted not to flake, rust, blister, peel, crack, pit, or corrode and to be free from defects in manufacturing, materials, and workmanship for a period of twenty (20) years from the original installation date.

In the event a Fibrex material component fails as a result of a defect in manufacturing, materials or workmanship within the limited warranty period, Renewal by Andersen, at its option, will: (1) provide and install the appropriate replacement components or (2) provide a factory-authorized repair to the existing product. Such replacement or repair is warranted for the remainder of the original limited warranty period.

Transferable Limited Warranty on Components Other Than Glass and Fibrex® Material

The non-glass components of your Renewal by Andersen Acclaim replacement windows, including non-electric operators, locks, lifts, balance systems, hinges, handles, insect screens, weatherstripping, sash, and frame members, are warranted to be free from defects in manufacturing, materials, and workmanship for a period of ten (10) years from the original installation date.

In the event a component other than glass or Fibrex material fails as a result of a defect in manufacturing, materials, or workmanship within the limited warranty period, Renewal by Andersen, at its option, will: (1) provide and install the appropriate replacement parts or (2) provide a factory-authorized repair to the existing product. Such replacement or repair is warranted for the remainder of the original limited warranty period.

Transferable Limited Warranty on Exterior Color Finish

The color finish on Fibrex® material exterior components (frame, sash, window sills, and grilles) on Renewal by Andersen Acclaim replacement windows is warranted to be free from manufacturing defects resulting in color fade greater than 5 delta-E* (Hunter) when measured in accordance with ASTM D2244-16e1, for a period of ten (10) years from the original installation date.

Weatherstripping, accessories, and hardware, including insect screen frames, handles, trim sets, and lock components, exterior trim profiles, and exterior aluminum coil stock are not covered by this exterior color finish warranty.

In the event there is a defect covered by this limited warranty for exterior color finish within the limited warranty period, Renewal by Andersen, at its option, will: (1) refinish the product – labor is included (the finish will be applied with standard commercial refinishing techniques and may not be the same finish as originally applied to the product) or (2) repair or replace the affected product or component. Such replacement parts, refinishing, or repairs are warranted for the remainder of the original limited warranty period.

ACCLAIM
REPLACEMENT WINDOWS
EXCLUSIVELY FROM RENEWAL by ANDERSEN

Transferable Limited Warranty on Installation

Installation of your Renewal by Andersen® Acclaim replacement windows or other Andersen® window and/or door products by Renewal by Andersen is warranted for a period of five (5) years from the date of original installation. During this period, should your Renewal by Andersen window or door fail to perform according to our specifications due to improper original installation, we will bring the workmanship up to our professional standards, at no cost to you. See the Andersen product warranties for additional warranty details.

This limited warranty on installation does not extend to labor/services performed by anyone other than the original Renewal by Andersen installer or other contractor authorized by Renewal by Andersen nor to the installation or repair of any finishing or other materials that have been applied to or adjacent to the product after the initial installation.

Non Renewal by Andersen Products

For products that are not specifically branded Renewal by Andersen, see the specific product warranties for those Andersen products available at andersenwindows.com.

No Other Warranties or Representations

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALL WARRANTIES ARE LIMITED TO THE APPLICABLE STATUTE OF LIMITATIONS, BUT IN NO CASE WILL EXTEND BEYOND THE LIMITED WARRANTY PERIODS SPECIFIED ABOVE. RENEWAL BY ANDERSEN EXCLUDES AND WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER ARISING OUT OF CONTRACT, TORT, OR OTHERWISE. THE REMEDY OF REPAIR OR REPLACEMENT OF THE PRODUCT PROVIDED BY THIS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSS OR DAMAGE.

Applicable Law

This Limited Warranty is only applicable in the U.S.A. (i.e., the fifty states and the District of Columbia) and Canada. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state or province. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitation of the duration of an implied warranty, so the above limitations or exclusions may not apply to you. If any specific term of this Limited Warranty is prohibited by any applicable law, it shall be null and void, but the remainder of this Limited Warranty shall remain in full force and effect.

Non-Warranty Repair or Replacement

You will be responsible for all costs related to any repair or replacement that is not covered by this Limited Warranty or which is outside of the limited warranty period. When warranty coverage is unclear, Renewal by Andersen may charge an inspection fee for any on-site product inspection. If the service provider determines the Renewal by Andersen product has a defect covered by this Limited Warranty, the inspection fee will be waived.



What Is Not Covered by This Limited Warranty

Specific Additional Exclusions

In addition to any other limitations or exclusions in this Limited Warranty, Renewal by Andersen shall have no obligation for product failure, damage, or costs due to or related to the following:

- Product modifications or glass shading devices (e.g., glass tinting, security systems, painting or staining, insulated coverings, etc.)
- Failure due to the application of non Renewal by Andersen hardware (e.g., locksets, trim sets, hinges, panic hardware, closers, etc.)
- Water infiltration other than as a result of a defect in manufacturing, materials, or workmanship
- Failure as a result of settling or structural failure of the structure in which the products are installed
- Condensation
- Improper maintenance, such as use of brick wash, razor blades, sealants, sanding, or improper washing
- Failure to properly seal and maintain the exposed wood portions and veneer of a product in accordance with Renewal by Andersen painting or staining guidelines
- Obtaining safe and reasonable access to the product for service
- Fading of furniture, flooring, window coverings, or other surrounding materials
- Chemicals or airborne pollutants, such as salt or acid rain
- Accidents
- Acts of God
- Normal wear and tear

Additional Items Excluded from This Limited Warranty:

- Products not manufactured by Renewal by Andersen
- Products not purchased through Renewal by Andersen and installed by an authorized Renewal by Andersen installer
- Installation services other than by authorized Renewal by Andersen installers
- Removal of Renewal by Andersen Accclaim replacement windows from the structure in which it was originally installed by anyone other than an authorized Renewal by Andersen installer
- Labor, service, and materials to paint or stain any repaired or replaced product, component, trim, finish, or other materials applied to or adjacent to products or other carpentry work that may be required
- The performance of the low-maintenance exterior glass coating on products with High-Performance Low-E4® glass (performance will vary depending on environmental conditions)
- Slight glass curvature, minor scratches, or other imperfections in the glass that do not impair structural integrity or significantly obscure normal vision
- Rattling of grille bars within an air space
- Insects passing through or around the insect screen
- Tarnish or corrosion to hardware finishes
- Special glazings – contact us concerning the limited warranty on special glazings
- Broken glass
- Art glass and decorative insulated art glass, impact-resistant glass
- Fading of furniture, flooring, window coverings, or other surrounding materials
- Other product series: Some products, product options, and accessories have their own limited warranties and are not covered by this Limited Warranty. For information on warranty coverage, please refer to the specific limited warranties for these products available at andersenwindows.com

Warranty Claim Procedure

To make a claim under this Limited Warranty, contact the nearest Renewal by Andersen location, our Warranty Service Line at 800-441-1109, or visit our website at renewalbyandersen.com. We will contact you to investigate your claim within approximately two weeks after notification and arrange for appropriate action. Warranty services may be provided by Renewal by Andersen and/or an authorized Renewal by Andersen service provider.

You can help us serve you faster by providing the following important information:

- The serial number of the affected product (located on a label affixed to the top or side of the window frame)
- Description of the product concerns
- Documentation of the purchase date, if available
- Your name, address (with zip code) where product is installed, and telephone numbers

Dispute Resolution Process

General

If you are dissatisfied with the remedy provided to you under the Limited Warranty set forth above or have any other claim against Renewal by Andersen related to your Renewal by Andersen® products, you and Renewal by Andersen agree to resolve the claim using the following process ("Dispute Resolution Process"). This Dispute Resolution Process will apply to claims of any nature relating to your Renewal by Andersen product ("Dispute(s)"). Disputes include, but are not limited to: claims for breach of contract or breach of warranty; claims for violation of state or federal laws or regulations; claims based in tort, negligence, or product liability; claims based in fraud or fraud in the inducement, marketing, or advertising claims; and claims related to the enforceability or effect of any term of the Limited Warranty or the Dispute Resolution Process, including, but not limited to, the waivers of class action and jury trials.

Notice Required

To assert a Dispute, you must first provide Renewal by Andersen with written notice. A Notice of Dispute form is available for your use on Renewal by Andersen's website at www.renewalbyandersen.com/noticeofdispute.

Renewal by Andersen Response

Renewal by Andersen will have 60 days from receipt of your Notice of Dispute to respond to you in writing. In that response or at any later time, Andersen may make one or more written offers to you to resolve your Dispute.

No Class-Action or Jury Trials

YOU AGREE THAT YOU MAY ASSERT DISPUTES AGAINST RENEWAL BY ANDERSEN ONLY ON AN INDIVIDUAL BASIS AND NOT AS A PLAINTIFF OR CLASS MEMBER IN ANY CLASS OR REPRESENTATIVE ACTION OR PROCEEDING. AS PART OF THIS DISPUTE RESOLUTION PROCESS, YOU AND ANDERSEN ALSO AGREE TO WAIVE ANY RIGHT TO A JURY AND AGREE TO HAVE ALL DISPUTES HEARD AND DECIDED SOLELY BY THE FEDERAL OR STATE COURT JUDGE.

Opt-Out Procedure

You may opt out of this Dispute Resolution Process by completing and submitting a written Opt-Out Notice. The Opt-Out Notice is located on Renewal by Andersen's website at www.renewalbyandersen.com/optout. Whether or not you opt out of the Dispute Resolution Process, all terms of the Limited Warranty set forth above remain in force and effect.

Applicable Law and Severability

This Dispute Resolution Process, including, but not limited to, issues related to its enforceability and effect, will be governed by the laws of the State of Minnesota without regard to conflict of law principles. If any term of this Dispute Resolution Process is found to be invalid or unenforceable in any particular jurisdiction, that term will not apply to that issue in that jurisdiction. Instead, that term will be severed with the remaining terms continuing in full force and effect.

Questions

If you have questions about the Dispute Resolution Process or Opt-Out Procedure, contact us at 1-800-441-1109.



RENEWAL
by ANDERSEN
FULL-SERVICE WINDOW & DOOR REPLACEMENT

MASSACHUSETTS ADDENDUM

This Addendum is a supplement to your Agreement Document and Payment Terms and all documents incorporated therein (the “Agreement”) with Renewal by Andersen LLC (“Contractor”). All provisions of this supplement are incorporated into the Agreement as if such provisions were fully and completely set forth in the Agreement. Any conflict between the terms of the Agreement and this Addendum will be resolved in favor of this Addendum.

- 1) The following language is added to the Agreement:

MINIMUM DOWNPAYMENT

Any deposit required under the contract to be paid in advance of the commencement of work under said contract shall not exceed the greater of one-third of the total contract price or the actual cost of any materials or equipment of a special order or custom made nature, which must be ordered in advance of the commencement of work, in order to assure that the project will proceed on schedule.

- 2) The following language is added to the Agreement:

ADDITIONAL INFORMATION

If you have general questions or need additional information about the Home Improvement Contractor Law or other consumer rights, or if you wish to obtain a free copy of “A Massachusetts Consumer Guide to Home Improvement” contact:

Consumer Information Hotline
Office of Consumer Affairs and Business Regulation
10 Park Plaza, Room 5170, Boston, MA 02116
617-973-8787, 888-283-3757 or visit the OCABR website at <http://www.mass.gov/ocabr/>

If you want to verify the registration of a contractor or if you have questions or need additional information specifically about the contractor registration component of the Home Improvement Contractor Law, contact:

Director of Home Improvement Contractor Registration
Office of Consumer Affairs and Business Regulation
10 Park Plaza, Room 5170, Boston, MA 02116
617-973-8787, 888-283-3757 or visit the HIC website at <http://www.mass.gov/ocabr/>

Go online to view the status of a Home Improvement Contractor’s Registration:
<http://db.state.ma.us/homeimprovement/licenseelist.asp>

For assistance with informal mediation of disputes or to register formal complaints against a business, call:

Consumer Complaint Section
Office of the Attorney General
617-727-8400
AND/OR
Better Business Bureau
508-652-4800, 508-755-2548 or 413-734-3114

3) The following language is added to the Agreement:

NOTICE

DO NOT SIGN THIS CONTRACT IF THERE ARE ANY BLANK SPACES.

4) The following language is added to the Agreement:

Renewal by Andersen LLC's registration number is: 170810.

Renewal by Andersen LLC's employer identification number is: 41-1918413.

5) The following language is added to the Agreement:

Please refer to Section 142A of the Massachusetts General Law ("Regulation of Home Improvement Contractors") to understand your right under such law.

MASSACHUSETTS PERMITS

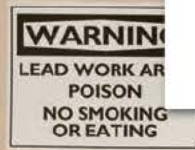
This Massachusetts Permits document is a supplement to your Agreement Document and Payment Terms and all documents incorporated therein (the "Agreement") with Renewal by Andersen LLC ("Contractor"). All provisions of this supplement are incorporated into the Agreement as if such provisions were fully and completely set forth in the Agreement. Any conflict between the terms of the Agreement and this Addendum will be resolved in favor of this Addendum.

PERMIT NOTICE:

All Home Improvement Contractors shall obtain any and all necessary construction-related permits and it shall be the obligation of the Contractor to obtain such permits.

Owners who secure their own construction-related permits or deal with unregistered contractors shall be excluded from access to the Guarantee Fund provisions of MGL chapter 142A.

THE LEAD-SAFE CERTIFIED GUIDE TO RENOVATE RIGHT



CAUTION CAUTION CAUTION CAUTION CAUTION CAUTION



1-800-424-LEAD (5323)

epa.gov/getleadsafe

EPA-740-K-10-001

Revised September 2011



This document may be purchased through the U.S. Government Printing Office online at bookstore.gpo.gov or by phone (toll-free): 1-866-512-1800.



Important lead hazard information for
families, child care providers and schools.

IT'S THE LAW!

Federal law requires contractors that disturb painted surfaces in homes, child care facilities and schools built before 1978 to be certified and follow specific work practices to prevent lead contamination. Always ask to see your contractor's certification.

Federal law requires that individuals receive certain information before renovating more than six square feet of painted surfaces in a room for interior projects or more than twenty square feet of painted surfaces for exterior projects or window replacement or demolition in housing, child care facilities and schools built before 1978.

- Homeowners and tenants: renovators must give you this pamphlet before starting work.
- Child care facilities, including preschools and kindergarten classrooms, and the families of children under six years of age that attend those facilities: renovators must provide a copy of this pamphlet to child care facilities and general renovation information to families whose children attend those facilities.



WHO SHOULD READ THIS PAMPHLET?

This pamphlet is for you if you:

- Reside in a home built before 1978.
- Own or operate a child care facility, including preschools and kindergarten classrooms, built before 1978, or
- Have a child under six years of age who attends a child care facility built before 1978.

You will learn:

- Basic facts about lead and your health.
- How to choose a contractor, if you are a property owner.
- What tenants, and parents/guardians of a child in a child care facility or school should consider.
- How to prepare for the renovation or repair job.
- What to look for during the job and after the job is done.
- Where to get more information about lead.

This pamphlet is not for:

- **Abatement projects.** Abatement is a set of activities aimed specifically at eliminating lead or lead hazards. EPA has regulations for certification and training of abatement professionals. If your goal is to eliminate lead or lead hazards, contact the National Lead Information Center at 1-800-424-LEAD (5323) for more information.
- **“Do-it-yourself” projects.** If you plan to do renovation work yourself, this document is a good start, but you will need more information to complete the work safely. Call the National Lead Information Center at 1-800-424-LEAD (5323) and ask for more information on how to work safely in a home with lead-based paint.
- **Contractor education.** Contractors who want information about working safely with lead should contact the National Lead Information Center at 1-800-424-LEAD (5323) for information about courses and resources on lead-safe work practices.



RENOVATING, REPAIRING, OR PAINTING?



- Is your home, your building, or the child care facility or school your children attend being renovated, repaired, or painted?
- Was your home, your building, or the child care facility or school where your children under six years of age attend built before 1978?

If the answer to these questions is YES, there are a few important things you need to know about lead-based paint.

This pamphlet provides basic facts about lead and information about lead safety when work is being done in your home, your building or the child care facility or school your children attend.

The Facts About Lead

- Lead can affect children's brains and developing nervous systems, causing reduced IQ, learning disabilities, and behavioral problems. Lead is also harmful to adults.
- Lead in dust is the most common way people are exposed to lead. People can also get lead in their bodies from lead in soil or paint chips. Lead dust is often invisible.
- Lead-based paint was used in more than 38 million homes until it was banned for residential use in 1978.
- Projects that disturb painted surfaces can create dust and endanger you and your family. Don't let this happen to you. Follow the practices described in this pamphlet to protect you and your family.

LEAD AND YOUR HEALTH

Lead is especially dangerous to children under six years of age.

Lead can affect children's brains and developing nervous systems, causing:

- Reduced IQ and learning disabilities.
- Behavior problems.

Even children who appear healthy can have dangerous levels of lead in their bodies.

Lead is also harmful to adults. In adults, low levels of lead can pose many dangers, including:

- High blood pressure and hypertension.
- Pregnant women exposed to lead can transfer lead to their fetuses. Lead gets into the body when it is swallowed or inhaled.
- People, especially children, can swallow lead dust as they eat, play, and do other normal hand-to-mouth activities.
- People may also breathe in lead dust or fumes if they disturb lead-based paint. People who sand, scrape, burn, brush, blast or otherwise disturb lead-based paint risk unsafe exposure to lead.



What should I do if I am concerned about my family's exposure to lead?

- A blood test is the only way to find out if you or a family member already has lead poisoning. Call your doctor or local health department to arrange for a blood test.
- Call your local health department for advice on reducing and eliminating exposures to lead inside and outside your home, child care facility or school.
- Always use lead-safe work practices when renovation or repair will disturb painted surfaces.

For more information about the health effects of exposure to lead, visit the EPA lead website at [epa.gov/lead/pubs/leadinfo](https://www.epa.gov/lead/pubs/leadinfo) or call 1-800-424-LEAD (5323).

There are other things you can do to protect your family every day.

- Regularly clean floors, window sills, and other surfaces.
- Wash children's hands, bottles, pacifiers, and toys often.
- Make sure children eat a healthy, nutritious diet consistent with the USDA's dietary guidelines, that helps protect children from the effects of lead.
- Wipe off shoes before entering the house.

WHERE DOES THE LEAD COME FROM?

Dust is the main problem.

The most common way to get lead in the body is from dust. Lead dust comes from deteriorating lead-based paint and lead-contaminated soil that gets tracked into your home. This dust may accumulate to unsafe levels. Then, normal hand-to-mouth activities, like playing and eating (especially in young children), move that dust from surfaces like floors and window sills into the body.

Home renovation creates dust.

Common renovation activities like sanding, cutting, and demolition can create hazardous lead dust and chips.

Proper work practices protect you from the dust.

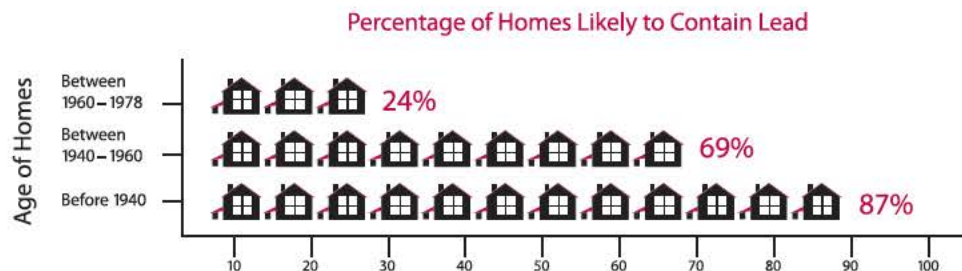
The key to protecting yourself and your family during a renovation, repair or painting job is to use lead-safe work practices such as containing dust inside the work area, using dust-minimizing work methods, and conducting a careful cleanup, as described in this pamphlet.

Other sources of lead.

Remember, lead can also come from outside soil, your water, or household items (such as lead-glazed pottery and lead crystal). Contact the National Lead Information Center at 1-800-424-LEAD (5323) for more information on these sources.



CHECKING YOUR HOME FOR LEAD-BASED PAINT



Older homes, child care facilities, and schools are more likely to contain lead-based paint.

Homes may be single-family homes or apartments. They may be private, government-assisted, or public housing. Schools are preschools and kindergarten classrooms. They may be urban, suburban, or rural.

You have the following options:

You may decide to assume your home, child care facility, or school contains lead. Especially in older homes and buildings, you may simply want to assume lead-based paint is present and follow the lead-safe work practices described in this brochure during the renovation, repair, or painting job.

You can hire a certified professional to check for lead-based paint.

These professionals are certified risk assessors or inspectors, and can determine if your home has lead or lead hazards.

- A certified inspector or risk assessor can conduct an inspection telling you whether your home, or a portion of your home, has lead-based paint and where it is located. This will tell you the areas in your home where lead-safe work practices are needed.
- A certified risk assessor can conduct a risk assessment telling you if your home currently has any lead hazards from lead in paint, dust, or soil. The risk assessor can also tell you what actions to take to address any hazards.
- For help finding a certified risk assessor or inspector, call the National Lead Information Center at 1-800-424-LEAD (5323).

You may also have a certified renovator test the surfaces or components being disturbed for lead by using a lead test kit or by taking paint chip samples and sending them to an EPA-recognized testing laboratory. Test kits must be EPA-recognized and are available at hardware stores. They include detailed instructions for their use.

FOR PROPERTY OWNERS

You have the ultimate responsibility for the safety of your family, tenants, or children in your care.

This means properly preparing for the renovation and keeping persons out of the work area (see p. 8). It also means ensuring the contractor uses lead-safe work practices.

Federal law requires that contractors performing renovation, repair and painting projects that disturb painted surfaces in homes, child care facilities, and schools built before 1978 be certified and follow specific work practices to prevent lead contamination.

Make sure your contractor is certified, and can explain clearly the details of the job and how the contractor will minimize lead hazards during the work.

- You can verify that a contractor is certified by checking EPA's website at epa.gov/getleadSAFE or by calling the National Lead Information Center at 1-800-424-LEAD (5323). You can also ask to see a copy of the contractor's firm certification.
- Ask if the contractor is trained to perform lead-safe work practices and to see a copy of their training certificate.
- Ask them what lead-safe methods they will use to set up and perform the job in your home, child care facility or school.
- Ask for references from at least three recent jobs involving homes built before 1978, and speak to each personally.

Always make sure the contract is clear about how the work will be set up, performed, and cleaned.

- Share the results of any previous lead tests with the contractor.
- You should specify in the contract that they follow the work practices described on pages 9 and 10 of this brochure.
- The contract should specify which parts of your home are part of the work area and specify which lead-safe work practices will be used in those areas. Remember, your contractor should confine dust and debris to the work area and should minimize spreading that dust to other areas of the home.
- The contract should also specify that the contractor will clean the work area, verify that it was cleaned adequately, and re-clean it if necessary.

If you think a worker is not doing what he is supposed to do or is doing something that is unsafe, you should:

- Direct the contractor to comply with regulatory and contract requirements.
- Call your local health or building department, or
- Call EPA's hotline 1-800-424-LEAD (5323).

If your property receives housing assistance from HUD (or a state or local agency that uses HUD funds), you must follow the requirements of HUD's Lead-Safe Housing Rule and the ones described in this pamphlet.

FOR TENANTS AND FAMILIES OF CHILDREN UNDER SIX YEARS OF AGE IN CHILD CARE FACILITIES AND SCHOOLS

You play an important role ensuring the ultimate safety of your family.

This means properly preparing for the renovation and staying out of the work area (see p. 8).

Federal law requires that contractors performing renovation, repair and painting projects that disturb painted surfaces in homes built before 1978 and in child care facilities and schools built before 1978, that a child under six years of age visits regularly, to be certified and follow specific work practices to prevent lead contamination.

The law requires anyone hired to renovate, repair, or do painting preparation work on a property built before 1978 to follow the steps described on pages 9 and 10 unless the area where the work will be done contains no lead-based paint.

If you think a worker is not doing what he is supposed to do or is doing something that is unsafe, you should:

- Contact your landlord.
- Call your local health or building department, or
- Call EPA's hotline 1-800-424-LEAD (5323).

If you are concerned about lead hazards left behind after the job is over, you can check the work yourself (see page 10).



PREPARING FOR A RENOVATION

The work areas should not be accessible to occupants while the work occurs.

The rooms or areas where work is being done may need to be blocked off or sealed with plastic sheeting to contain any dust that is generated. Therefore, the contained area may not be available to you until the work in that room or area is complete, cleaned thoroughly, and the containment has been removed. Because you may not have access to some areas during the renovation, you should plan accordingly.

You may need:

- Alternative bedroom, bathroom, and kitchen arrangements if work is occurring in those areas of your home.
- A safe place for pets because they too can be poisoned by lead and can track lead dust into other areas of the home.
- A separate pathway for the contractor from the work area to the outside in order to bring materials in and out of the home. Ideally, it should not be through the same entrance that your family uses.
- A place to store your furniture. All furniture and belongings may have to be moved from the work area while the work is being done. Items that can't be moved, such as cabinets, should be wrapped in plastic.
- To turn off forced-air heating and air conditioning systems while the work is being done. This prevents dust from spreading through vents from the work area to the rest of your home. Consider how this may affect your living arrangements.

You may even want to move out of your home temporarily while all or part of the work is being done.

Child care facilities and schools may want to consider alternative accommodations for children and access to necessary facilities.



DURING THE WORK

Federal law requires contractors that are hired to perform renovation, repair and painting projects in homes, child care facilities, and schools built before 1978 that disturb painted surfaces to be certified and follow specific work practices to prevent lead contamination.

The work practices the contractor must follow include these three simple procedures, described below:

1. Contain the work area. The area must be contained so that dust and debris do not escape from that area. Warning signs must be put up and plastic or other impermeable material and tape must be used as appropriate to:

- Cover the floors and any furniture that cannot be moved.
- Seal off doors and heating and cooling system vents.
- For exterior renovations, cover the ground and, in some instances, erect vertical containment or equivalent extra precautions in containing the work area.

These work practices will help prevent dust or debris from getting outside the work area.

2. Avoid renovation methods that generate large amounts of lead-contaminated dust.

Some methods generate so much lead-contaminated dust that their use is prohibited.

They are:

- Open flame burning or torching.
- Sanding, grinding, planing, needle gunning, or blasting with power tools and equipment not equipped with a shroud and HEPA vacuum attachment.
- Using a heat gun at temperatures greater than 1100°F.



There is no way to eliminate dust, but some renovation methods make less dust than others. Contractors may choose to use various methods to minimize dust generation, including using water to mist areas before sanding or scraping; scoring paint before separating components; and prying and pulling apart components instead of breaking them.

3. Clean up thoroughly. The work area should be cleaned up daily to keep it as clean as possible. When all the work is done, the area must be cleaned up using special cleaning methods before taking down any plastic that isolates the work area from the rest of the home. The special cleaning methods should include:

- Using a HEPA vacuum to clean up dust and debris on all surfaces, followed by
- Wet wiping and wet mopping with plenty of rinse water.

When the final cleaning is done, look around. There should be no dust, paint chips, or debris in the work area. If you see any dust, paint chips, or debris, the area must be re-cleaned.

FOR PROPERTY OWNERS: AFTER THE WORK IS DONE

When all the work is finished, you will want to know if your home, child care facility, or school where children under six attend has been cleaned up properly.

EPA Requires Cleaning Verification.

In addition to using allowable work practices and working in a lead-safe manner, EPA's RRP rule requires contractors to follow a specific cleaning protocol. The protocol requires the contractor to use disposable cleaning cloths to wipe the floor and other surfaces of the work area and compare these cloths to an EPA-provided cleaning verification card to determine if the work area was adequately cleaned. EPA research has shown that following the use of lead-safe work practices with the cleaning verification protocol will effectively reduce lead-dust hazards.

Lead-Dust Testing.

EPA believes that if you use a certified and trained renovation contractor who follows the LRRP rule by using lead-safe work practices and the cleaning protocol after the job is finished, lead-dust hazards will be effectively reduced. If, however, you are interested in having lead-dust testing done at the completion of your job, outlined below is some helpful information.

What is a lead-dust test?

- Lead-dust tests are wipe samples sent to a laboratory for analysis. You will get a report specifying the levels of lead found after your specific job.

How and when should I ask my contractor about lead-dust testing?

- Contractors are not required by EPA to conduct lead-dust testing. However, if you want testing, EPA recommends testing be conducted by a lead professional. To locate a lead professional who will perform an evaluation near you, visit EPA's website at epa.gov/lead/pubs/locate or contact the National Lead Information Center at **1-800-424-LEAD (5323)**.
- If you decide that you want lead-dust testing, it is a good idea to specify in your contract, before the start of the job, that a lead-dust test is to be done for your job and who will do the testing, as well as whether re-cleaning will be required based on the results of the test.
- You may do the testing yourself. If you choose to do the testing, some EPA-recognized lead laboratories will send you a kit that allows you to collect samples and send them back to the laboratory for analysis. Contact the National Lead Information Center for lists of EPA-recognized testing laboratories.



FOR ADDITIONAL INFORMATION

You may need additional information on how to protect yourself and your children while a job is going on in your home, your building, or child care facility.

The National Lead Information Center at **1-800-424-LEAD (5323)** or epa.gov/lead/nlic can tell you how to contact your state, local, and/or tribal programs or get general information about lead poisoning prevention.

- State and tribal lead poisoning prevention or environmental protection programs can provide information about lead regulations and potential sources of financial aid for reducing lead hazards. If your state or local government has requirements more stringent than those described in this pamphlet, you must follow those requirements.
- Local building code officials can tell you the regulations that apply to the renovation work that you are planning.
- State, county, and local health departments can provide information about local programs, including assistance for lead-poisoned children and advice on ways to get your home checked for lead.

The National Lead Information Center can also provide a variety of resource materials, including the following guides to lead-safe work practices. Many of these materials are also available at epa.gov/lead/pubs/brochure

- Steps to Lead Safe Renovation, Repair and Painting.
- Protect Your Family from Lead in Your Home
- Lead in Your Home: A Parent's Reference Guide



For the hearing impaired, call the Federal Information Relay Service at 1-800-877-8339 to access any of the phone numbers in this brochure.

EPA CONTACTS

EPA Regional Offices

EPA addresses residential lead hazards through several different regulations. EPA requires training and certification for conducting abatement and renovations, education about hazards associated with renovations, disclosure about known lead paint and lead hazards in housing, and sets lead-paint hazard standards.

Your Regional EPA Office can provide further information regarding lead safety and lead protection programs at epa.gov/lead.

Region 1

(Connecticut, Massachusetts, Maine, New Hampshire, Rhode Island, Vermont)
Regional Lead Contact
U.S. EPA Region 1
Suite 1100
One Congress Street
Boston, MA 02114-2023
(888) 372-7341

Region 2

(New Jersey, New York, Puerto Rico, Virgin Islands)
Regional Lead Contact
U.S. EPA Region 2
2890 Woodbridge Avenue
Building 205, Mail Stop 225
Edison, NJ 08837-3679
(732) 321-6671

Region 3

(Delaware, Maryland, Pennsylvania, Virginia, Washington, DC, West Virginia)
Regional Lead Contact
U.S. EPA Region 3
1650 Arch Street
Philadelphia, PA 19103-2029
(215) 814-5000

Region 4

(Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee)
Regional Lead Contact
U.S. EPA Region 4
61 Forsyth Street, SW
Atlanta, GA 30303-8960
(404) 562-9900

Region 5

(Illinois, Indiana, Michigan, Minnesota, Ohio, Wisconsin)
Regional Lead Contact
U.S. EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604-3507
(312) 886-6003

Region 6

(Arkansas, Louisiana, New Mexico, Oklahoma, Texas)
Regional Lead Contact
U.S. EPA Region 6
1445 Ross Avenue,
12th Floor
Dallas, TX 75202-2733
(214) 665-7577

Region 7

(Iowa, Kansas, Missouri, Nebraska)
Regional Lead Contact
U.S. EPA Region 7
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7003

Region 8

(Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming)
Regional Lead Contact
U.S. EPA Region 8
1595 Wynkoop Street
Denver, CO 80202
(303) 312-6312

Region 9

(Arizona, California, Hawaii, Nevada)
Regional Lead Contact
U.S. Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 947-8021

Region 10

(Alaska, Idaho, Oregon, Washington)
Regional Lead Contact
U.S. EPA Region 10
1200 Sixth Avenue
Seattle, WA 98101-1128
(206) 553-1200

OTHER FEDERAL AGENCIES

CPSC

The Consumer Product Safety Commission (CPSC) protects the public from the unreasonable risk of injury or death from 15,000 types of consumer products under the agency's jurisdiction. CPSC warns the public and private sectors to reduce exposure to lead and increase consumer awareness. Contact CPSC for further information regarding regulations and consumer product safety.

CPSC

4330 East West Highway
Bethesda, MD 20814
Hotline 1-(800) 638-2772
cpsc.gov

CDC Childhood Lead Poisoning Prevention Branch

The Centers for Disease Control and Prevention (CDC) assists state and local childhood lead poisoning prevention programs to provide a scientific basis for policy decisions, and to ensure that health issues are addressed in decisions about housing and the environment. Contact CDC Childhood Lead Poisoning Prevention Program for additional materials and links on the topic of lead.

CDC Childhood Lead Poisoning Prevention Branch

4770 Buford Highway, MS F-40
Atlanta, GA 30341
(770) 488-3300
cdc.gov/nceh/lead

HUD Office of Healthy Homes and Lead Hazard Control

The Department of Housing and Urban Development (HUD) provides funds to state and local governments to develop cost-effective ways to reduce lead-based paint hazards in America's privately-owned low-income housing. In addition, the office enforces the rule on disclosure of known lead paint and lead hazards in housing, and HUD's lead safety regulations in HUD-assisted housing, provides public outreach and technical assistance, and conducts technical studies to help protect children and their families from health and safety hazards in the home. Contact the HUD Office of Healthy Homes and Lead Hazard Control for information on lead regulations, outreach efforts, and lead hazard control research and outreach grant programs.

U.S. Department of Housing and Urban Development

Office of Healthy Homes and Lead Hazard Control
451 Seventh Street, SW, Room 8236
Washington, DC 20410-3000
HUD's Lead Regulations Hotline
(202) 402-7698
hud.gov/offices/lead/



If Using a Builder

DBA: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC
HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

Property Owner Must Complete & Sign This Section If Using A Bullder

I, [redacted] , hereby authorize Renewal by Andersen LLC to act on my behalf, in all matters relative to building permit application for the property/address indicated on this agreement.

[redacted] [redacted] [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[Signature]

SIGNATURE OF SALES PERSON:

[redacted]

PRINT NAME OF SALES PERSON

[redacted]

[Signature]

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Electronic Consent

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

Welcome to Renewal by Andersen LLC d/b/a Renewal by Andersen of Boston, which may be referred to as "we" or "us" in this document. "You" or "I" refers to the Buyer(s) (who may also be referred to herein as the "Customer(s)").

You have received this Electronic Consent Notice as part of your eGreement packet. You previously agreed to enter into eGreement contract(s) electronically and use electronic signatures. You also agreed to exchange information with us electronically and allow us to electronically provide records, notices and legal disclosures.

Your Rights

You understand that: (i) you have the right to have the contract(s) provided in paper or electronic form and (ii) your consent applies to this transaction and any notices, agreements, legal disclosures, reports, documents, communications, and/or other records relating to this transaction or any of our services and/or products.

You may at no cost to you: (a) withdraw your consent to contract electronically or use electronic signatures, exchange information with us electronically, or have the records, notices and legal disclosures provided in electronic form as described in this paragraph at no cost to you; and/or (b) you may obtain a paper copy at no charge if you request a copy from the sales representative or at the email noted above.

Please note that withdrawing your consent may delay the receipt of documents and information.

Our Right to Send You Paper Documents

We may sometimes give or send you paper documents even if you have consented to receive documents electronically.

Hardware and Software Requirements

You will need to meet the following hardware and software requirements to access the contract: access to any device modern web browser, an Internet connection, and the ability to view a PDF.

Privacy Notice

We will collect certain personal information from you. In order to help you understand how we use information collected in connection with this or other transactions, please refer to our privacy policy at:

<http://www.renewalbyandersen.com/about/legal-privacy.aspx>

SIGNATURE OF SALES PERSON:

PRINT NAME OF SALES PERSON

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Electronic Consent

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

Data Retention

The information and documents we send you electronically are available unless and until you delete the information and documents on your electronic device. You may want to download and save any materials that we send you electronically since you are responsible for keeping them for your records.

Contact Us

If you have any trouble printing, downloading or accessing any documents, please contact your sales representative or call us at 508-351-2200 to request a paper copy at no cost to you.

If you have any questions about your Renewal by Andersen® products, please contact your sales representative or call us at 508-351-2200.

Changing Your Contact Information

You can change your contact information, at no cost to you, by calling us at 508-351-2200.

Your Agreement and Consent

I acknowledge by receipt of this Electronic Consent Notice that:

1. I have read this notice about the use of electronic documents.
2. I agree to the use of electronic documents instead of printed documents and understand this satisfies any legal requirement.
3. I am able to download and review files in PDF format.
4. I have access to any device modern web browser, Internet access, and can send and receive emails with links to websites.
5. My consent applies to documents we will send you electronically.

Thank you again for working with Renewal by Andersen LLC d/b/a Renewal by Andersen of Boston!

SIGNATURE OF SALES PERSON:

PRINT NAME OF SALES PERSON

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Project Preparation Expectation

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

NOTES

1. Renewal by Andersen cannot guarantee existing paint lines or wallpaper lines will be covered by the [REDACTED]s are installed.
2. Any painting, staining or wallpapering which may be needed is not included in this Agreement unless specifically noted in the [REDACTED] Itemized Order Receipt.
3. Renewal by Andersen cannot guarantee the fit of the original window coverings after the new units are installed.
4. Removal and reinstallation of window coverings are solely the responsibility of the customer unless specifically noted in the Itemized Order Receipt.
5. By signing below, customer is aware in some cases there will be glass loss after windows are replaced. Any glass loss by replacement window(s) will be dependent on the type of existing windows, installation method and replacement window style.

TECHNICAL MEASURE PREPARATION

You are required to be present during your technical measure in order to open your home and review your contract specifications with our technician. We ask that you ensure the technician has access to the interior and exterior of the windows and doors for the measuring process.

PRE-INSTALLATION PREPARATION

1. Move all furniture away from the windows or doors at least six feet.
2. Remove all pictures and fixtures from walls where windows or doors are being replaced.
3. Remove all shades, shutters, and draperies from windows/doors being replaced.
4. Renewal by Andersen is not responsible for removing or replacing shutters, drapes, mini-blinds, window coverings, etc., unless stipulated within the Agreement.
5. If full-frame installation OR insert installation with aluminum wrap, remove exterior shutters and awnings.
6. In the event that your municipality, city, town, village or other regulatory authority requires a permit for your project, specific code requirements may have to be met. This could include, but not limited to, safety glass, egress windows in bedrooms, and smoke detectors. Renewal by Andersen will arrange for the permit and inspection, if required, for your project. You may have asked to be present for the inspection. Renewal by Andersen bears no financial obligation for cost incurred to meet code requirements.

SIGNATURE OF SALES PERSON:

PRINT NAME OF SALES PERSON

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Project Preparation Expectation

DBA: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC
HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

- 7. If your home has a security system, you (the homeowner) will need to call and make arrangements to have your system disconnected prior to the installation and re-connected after installation. Note: Some security companies may need to be onsite during installation.
- 8. If your home has an air conditioning unit in any of the windows being replaced, you must have it removed prior to window installation.
- 9. If you have pets, it is preferable to keep them confined while the installation is taking place.
- 10. Final payment, if not already made, is due the day of installation.

DAY OF INSTALLATION

Renewal by Andersen requests the homeowner to be present at the beginning and completion of work to allow time for any questions/concerns and to collect progress payments as outlined in Section 4. Payment Terms of the MA Terms and Conditions of Sale. By signing below, customer agrees to provide progress payments as required.
A small advertising sign may also be placed in the customers yard during installation.

[Redacted Signature Line]

[Handwritten Signature]

SIGNATURE OF SALES PERSON:

[Redacted Name Line]

PRINT NAME OF SALES PERSON

[Redacted Signature Line]

[Handwritten Signature]

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Release Agreement

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

I UNDERSTAND that my name, my company name, voice, picture, likeness, biographical materials, photo images of my home and/or person, and statements and/or opinions made by me, in whole or in part, edited or unedited, in any and all media (hereinafter "Information"), without limitation for any and all purposes (including but not limited to incorporating the material into commercials, advertisements, promotions, coupons, in-store displays, on-line programs, free standing inserts and/or publicity or other materials of Renewal by Andersen's products or services). I agree that Renewal by Andersen LLC will have the right to attribute this Information to me and that the Information is accurate to the best of my knowledge. No benefit has been given or promised to me in consideration of expressing my beliefs about Renewal by Andersen® products.

I hereby consent to the use of the Information to Renewal by Andersen LLC, their successors and assigns, for use without restriction as to frequency, scope or duration of usage.

In connection herewith, I hereby release and agree to hold harmless Renewal by Andersen LLC, its successors and assigns, each of them from any and all claims of any kind which I, my heirs, executors or assigns, may have on account of such use including what might be deemed to be misrepresentations of me, my character or my person due to distortion, optical illusion or faulty reproduction which may occur in the finished product.

BUYER(S)

SIGNATURE

Don Silverman

PRINT NAME

[REDACTED]

ADDRESS

[REDACTED]

CITY / STATE / ZIP

SIGNATURE

[REDACTED]

ADDRESS

[REDACTED]

CITY / STATE / ZIP

WITNESS

SIGNATURE

[REDACTED]

PRINT NAME

05/29/26

DATE



Release Agreement

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

I hereby agree to waive any compensation rights and/or benefits other than the publicity my business will receive from this advertisement for my participation in this project.

Renewal by Andersen LLC, its successors and assigns, shall be the absolute owner of any and all advertising materials (and all rights therein, including the copyright) produced pursuant to this Agreement.

No promise or representation which is not expressed herein has been made to me, and I have read this release, understand it and am signing it voluntarily.

BUYER(S)

SIGNATURE

Don Silverman

PRINT NAME

ADDRESS

CITY / STATE / ZIP

SIGNATURE

PRINT NAME

ADDRESS

CITY / STATE / ZIP

WITNESS

SIGNATURE

PRINT NAME

05/29/26

DATE



Price Presentation Discounts

DBA: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC
HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman
140 Chestnut Street Unit 402
Springfield , MA 01103
Year Built: 1910
C: (413)222-0985

PROJECT PRICE BEFORE DISCOUNTS \$26,225

INDIVIDUAL SAVINGS BASED ON 5 UNITS

Renewal Savings (Boston Offer)	Savings:
Renewal Savings Discount 20%	\$5,245

Efficiency Discount (5%)	Savings:
	\$1,049

TOTAL PRICE: \$19,931





Terms and Conditions of Sale

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

1. Parties and Acceptance. This Agreement (as defined in the Agreement Document and Payment Terms to which these Terms and Conditions of Sale are attached and incorporated into by reference, which includes, but is not limited to, these Terms and Conditions of Sale) is between you, which means each person who signs this Agreement as a Buyer, and Renewal by Andersen LLC (referred to in this Agreement as "Contractor"). All agreements are subject to final acceptance by management of Contractor. Contractor agrees to provide the products and services outlined in this Agreement only on the condition that you agree to accept the terms and conditions of sale set forth in this Agreement.

2. Quotations and Prices. This Agreement will expire thirty (30) calendar days from the date signed by a Contractor representative, unless it has been accepted by you before such date. Quoted prices apply only to the specific products and service and quantities stated in this Agreement, and such prices are adjusted by Contractor to reflect additional costs and expenses associated with circumstances which are unanticipated and unforeseen at the time this Agreement is accepted by Contractor; including but not limited to, costs associated with an alternative installation method better suited for the installation application as determined by the technical measurement. Unless otherwise expressly specified in this Agreement, all amounts quoted exclude all present and future federal, state and local excise, sales/use, privilege, personal property, gross receipts and similar taxes and charges payable with respect to the products and services under this Agreement.

3. Limited Warranty. The products sold to you pursuant to this Agreement are subject to the Limited Warranty for Renewal by Andersen® Products and Installation, a copy of which has been furnished to you and is incorporated in this Agreement by reference.

4. Payment Terms. Unless otherwise expressly specified in this Agreement, a down payment of thirty-three percent (33%) of the Total Amount of Agreement identified on the front of this Agreement is required to be made by you upon your acceptance of this Agreement. The remaining balance of the Total Amount of Agreement is due on the day the services contemplated by this Agreement are substantially completed. Substantially completed is defined herein as work that has been materially finished and is functional as intended. If any services contemplated by this Agreement have not been completed by that day, you may withhold an amount equal to the greater of ten percent (10%) of the Total Amount of Agreement or the price of the uncompleted services and pay such amount when such services are completed. If permissible under applicable law, any amount not paid when due will bear a charge, commencing thirty (30) calendar days after delivery of the products and completion of the services contemplated by this Agreement, in an amount equal to the lesser of one and one-half percent (1 1/2%) per month of the unpaid balance or the maximum amount permitted by applicable law. You agree to pay Contractor's reasonable attorneys' fees and costs in connection with enforcing any of the terms and conditions of this Agreement, including, without limitation, recovering the payment of any amounts due under this Agreement. Notwithstanding the foregoing, if, in Contractor's judgment, your financial condition at any time prior to shipment of the products or performance of the services does not justify shipment or performance, Contractor may, at its option, require full or partial payment in advance or may cancel shipment of the products and performance of the services under this Agreement without incurring any cost or liability.

5. Delays. Performance dates are estimated only and are not guaranteed; performance being made on a best efforts, as available basis. Contractor will make every reasonable effort to meet any performance dates quoted in this Agreement, but Contractor will not be liable for its failure to meet such dates. Contractor has the right to install the products or perform the services in advance of the scheduled date. You acknowledge that actual installation and performance dates may depend upon a variety of factors, including, without limitation, weather, flood, fire, strikes or labor disturbances, acts of God, your acts, governmental prohibition of importation or exportation, acts of civil or military authority, insurrection or riot, embargoes,

SIGNATURE OF SALES PERSON:

PRINT NAME OF SALES PERSON

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Terms and Conditions of Sale

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

inability to obtain means of transportation, accidents or delays in transportation, the inability to obtain necessary labor, materials or manufacturing facilities, or other events beyond Contractor's control. If the occurrence of any of the above events prevents Contractor from performing its obligations under this Agreement, Contractor may at its option, either suspend or cancel performance of its obligations under this Agreement without any cost or liability. In no event will Contractor be liable for any damage, consequential or otherwise, arising from any premature or delayed performance.

6. Title; Security Interest; Lien. [REDACTED] the products sold under this Agreement will remain in [REDACTED] will not shift to you until you have performed all of your obligations under this Agreement. To secure your performance, Contractor retains, and you hereby grant to Contractor, a security interest in such products. Upon request of Contractor, you agree to sign and authorize Contractor to file any document required to perfect such [REDACTED] security interest. To assist in doing so, you will upon our request verify your legal name and the legal description of your premises. Payment in full of the amounts due under this Agreement will release the security interest. Contractor reserves the right to file and perfect a lien against your premises in the event that you fail to pay the Total Amount of Agreement upon completion of the services contemplated by this Agreement. Failure to pay any such amount when due shall constitute a default and permit Contractor to demand payment of all amounts payable under this Agreement, whether or not otherwise then due, and to exercise all remedies on any security interest or lien securing such amounts.

7. Cancellation. Except as otherwise provided in this Agreement and in the attached Notice of Cancellation form, this transaction is non-cancelable and Contractor will be entitled to collect the Total Amount of Agreement in the event that you attempt to cancel. Contractor also has the right to cancel this Agreement without incurring any cost or liability upon your breach of this Agreement, material or otherwise, or upon your default.

8. Waste. Contractor agrees to remove and transport away from your premises the replaced windows and doors and any other debris and waste materials which are generated by Contractor in connection with the delivery of products and performance of the services under this Agreement. You may elect to keep the replaced windows and doors but Contractor is not responsible for breakage of any of the replaced windows or doors either during or after their removal nor does Contractor guarantee that replaced windows and doors will function properly after their removal.

9. Access. You represent that you are the owner of the premises which are the subject of this Agreement. You agree to grant Contractor reasonable access to your premises during normal business hours and days for purposes of installing the products and performing the services contemplated by this Agreement. Except as otherwise requested by you in the pre-installation checklist, you agree to move or remove all draperies, blinds, shades, furniture and any other items that are in the immediate vicinity of any window or door which is to be replaced. Contractor is not responsible for damage to any items that it moves or removes to facilitate the installation of any new window or door.

10. Assignment and Delegation. Contractor may assign its rights and delegate its obligations under this Agreement without your consent.

11. Governing Law. This Agreement will be governed by and construed in accordance with the laws of the state in which the premises subject to this Agreement are located as listed on the front of this form (without regard to the laws of conflict of any jurisdiction) as to all matters, including, without limitation, matters of validity, interpretation, construction, effect, performance, enforcement and remedies.

12. Validity of Provisions; Severability. The provisions of this Agreement will be interpreted to be valid and enforceable under applicable law to the extent that such interpretation does not materially alter such provisions; provided, that if any

SIGNATURE OF SALES PERSON:

SIGNATURE OF CUSTOMER 1:

SIGNATURE OF CUSTOMER 2:

Don Silverman

PRINT NAME OF SALES PERSON

PRINT NAME

PRINT NAME



Terms and Conditions of Sale

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

such provision becomes invalid or unenforceable under applicable law, such provision will be stricken to the extent necessary and the remainder of such provision and the remainder of this Agreement will continue in full force and effect.

13. No Waiver of Right. No failure or delay by Contractor to assert any right or remedy under this Agreement will be a waiver of that right or remedy if the circumstances giving rise to the right or remedy continue or are repeated. No waiver will be effective unless given in writing. No term or provision of this Agreement will be construed to limit, in any manner, the rights or remedies available to Contractor under applicable law or otherwise, but rather are in a cumulative of such other rights or remedies.

14. Entire Agreement; Modification. You and Contractor agree that this Agreement (including all of the attachments) is the final expression of our agreement, is the complete and exclusive statement of the terms and conditions of our agreement and supersedes all agreements, understandings or discussions, whether oral or written, entered into prior to or contemporaneously with this Agreement. This Agreement may not be modified or amended except in writing signed by you and Contractor.

15. Attachments. Certain state and federal laws require that notices, or terms and conditions different from or in addition to those contained elsewhere in this Agreement, be given to you. Such notices or terms and conditions, if any, may be included on one or more separate sheets attached to this Agreement and are incorporated in this Agreement by reference, and supersede and govern any conflicting or inconsistent notice or term or condition contained herein, if received by you prior to, or contemporaneously with, your execution of this Agreement. Your initialing of the separate sheets evidences your receipt, review and approval of such required notices, but evidence of your receipt of these materials can be shown in any other reasonable manner, including your receipt via electronic mail or other electronic delivery, your acknowledgment of receipt of such materials in a separate place on the Agreement, or by the separate records of Contractor which show your signature or receipt of such materials.

16. Condensation and Environmental Conditions. Condensation, which can form on or within walls, siding, tiles, or other surfaces results from pre-existing conditions in a home and internal or external temperatures. Reducing humidity in a home will often remedy condensation problems. I agree that Contractor is not responsible for condensation or existing or developing spore or mold growth, which can be the result of condensation.

SIGNATURE OF SALES PERSON:

PRINT NAME OF SALES PERSON

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Lead-Safe Form

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

Within the Lead-Safe Form, "You" or "I" refers to the Buyer(s) (who may also be referred to herein as the "Customer(s)").

Lead Safe Work Pamphlet Receipt and Lead Safe Work Process

Pamphlet Receipt

I have received a copy of the lead hazard information pamphlet [REDACTED] me of the potential risk of the lead hazard exposure from renovation activity to be performed in my dwelling. I received this pamphlet before the work began.

Lead Safe Work Process

Renewal by Andersen of Boston does not test for lead based paint. All homes built prior to 1978 will have Lead Safe Work Practices performed during the installation as required by EPA's Lead-Based Paint Renovation, Repair, and Painting Rule.

Please Note: There is no additional charge to perform Lead Safe Work Practices during your installation.

Lead Safe Work Practices Installation Preparation

The following will apply to your installation if Lead Safe Work Practices are performed:

- 1. AC/Furnace-** You will need to temporarily turn off your air conditioning or furnace during the portion of installation where Lead Safe Work Practices are being performed.
- 2. Preparation-** Please remove all bed linens, pillows, and children's toys from the work area(s).
- 3. Warning-** When a containment area is set up by the installation crew, no one is permitted inside the room/containment area with the exception of the installation crew members.

By signing below, I hereby agree to the terms and conditions above.

[REDACTED]

SIGNATURE OF SALES PERSON:

[REDACTED]

PRINT NAME OF SALES PERSON

[REDACTED]

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Waiver

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

Tile/Stucco Waiver:

Renewal by Andersen of Boston will take the utmost precaution and attempt to install your new windows/Doors without damaging the existing tile and/or stucco. However, I acknowledge the fact that there is a chance of possible tile and/or stucco damage during installation and I accept this risk, and assume all responsibility for the cost to fix, repair or replace and will not hold Renewal by Andersen of Boston responsible if tile/stucco damage occurs.

Opening modification notice:

Closing an opening:

Price Includes:

- Adding framing to opening to support exterior sheathing and the interior wall board.
- Insulation of wall cavity with fiberglass bat insulation and required vapor barrier.
- Patching of the interior wall with sheet rock/gypsum board as necessary. The joints to be taped, joints and screws heads coated with one coat of joint compound (mud).
- Patching of exterior wall with comparable sheathing
- Required inspections by building official.
- Exterior siding or wall finishing.

Price does not include:

- Finish coat of interior joint compound and sanding.
- Painting or other finishing of interior or exterior wall or ceiling.

Enhancing/Enlarging an opening:

Price Includes:

- Temporary structure support during header change out, as required.
- Removal of existing interior sheet rock/gypsum wallboard and exterior siding (excluding brick and stone) as required for access to safely remove existing framing and properly install new framing.
- Dust control to the best of our ability. Dust can migrate beyond the work area. We will vacuum the immediate work area,

SIGNATURE OF SALES PERSON:

PRINT NAME OF SALES PERSON

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME



Waiver

DBA: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC

HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonbooking@andersencorp.com

Don Silverman

140 Chestnut Street Unit 402

Springfield, MA 01103

Year Built: 1910

C: (413)222-0985

but are not responsible for all dust clean up (unless lead safe work practice is required).

- New framing installed to meet code requirements.
- [REDACTED] fiberglass insulation and required vapor barrier.
- Patching of interior wall with sheet rock/gypsum board as necessary. The joint to be taped, joint and screwheads coated with one coat of joint compound. **Water walls are prone to cracks beyond the immediate work area. [REDACTED] repairs are not included.**
- Framing inspection and final inspection by building official. [REDACTED]
- Removal and disposal of all debris. [REDACTED]

Price does not include:

- Finish coat of interior joint compound and sanding.
- Painting or other finishing of interior or exterior wall or ceiling.
- Plaster repair required beyond the immediate work area.

Water damage/Infiltration Waiver:

Renewal by Andersen will install all products in compliance with all Andersen specifications. However, As the customer I acknowledge the fact that there could be issues beyond the scope of our installation that can cause product failure. These issues are such as listed but not limited to ice damming, incorrect siding/gutter/flashing or inappropriate opening elevation, etc. should any of these conditions exist, the customer will assume all responsibility for the cost to fix, repair or replace and will not hold Renewal by Andersen responsible if damage occurs.

Please note that repairing any unseen damage and/or rectifying poor original construction methods are not included in our cost. If anything of this nature is discovered at the time of installation, **upon your approval** we will make every attempt to repair the problem at an additional cost to the contract.

It is the homeowners responsibility to make sure any existing electrical and/or mechanical/plumbing that impede the proposed opening is moved prior to the installation.

I have read the above statements and I understand the scope of work and the potential additional costs that will be required to complete the finish work (I.e. Patching, finish taping, priming, painting, ceilings, siding, stucco, tile), and understand these will be my responsibility.

[REDACTED]

SIGNATURE OF SALES PERSON:

[REDACTED]

PRINT NAME OF SALES PERSON

[REDACTED]

SIGNATURE OF CUSTOMER 1:

Don Silverman

PRINT NAME

SIGNATURE OF CUSTOMER 2:

PRINT NAME

Window Styles



Check Rail Options



Handing:
Change
As Existing

Glass Triple Pane Y / N

High-Performance Glass

- Low-E4* SmartSun™ Glass**
SmartSun glass meets our highest standards in cool and hot weather performance. SmartSun glass blocks 95% of harmful UV rays that can damage drapes, artwork, and furniture.
- Low-E4* Glass**
Perfect where both heating and cooling costs are a concern, our Low-E4 glass helps keep your home warmer in winter, cooler in summer, and blocks 84% of harmful UV rays.
- Low-E4* SmartSun™ Glass with HeatLock® Technology**
You get all of the benefits of our Low-E4 SmartSun glass plus an energy-saving glass coating that helps your living space feel warmer and more comfortable.

No. of Tempered windows: **0**
No. of Obscure windows: **0**

Storm Doors

HARDWARE OPTIONS**†

TRADITIONAL

Antique Brass**
Brass*
Matte Black*
Nickel*
Oil Rubbed Bronze**

MODERN

Brushed Dark Nickel**
Brushed French Gold**
Matte Black*
Metallic Stone*
Venetian Bronze**

Colors

Interior



Interior/Exterior



Exterior



Hardware



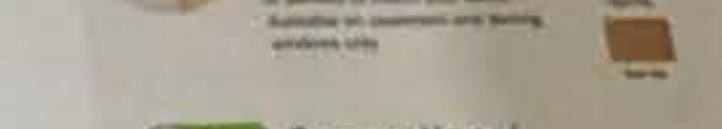
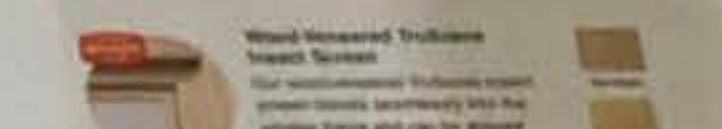
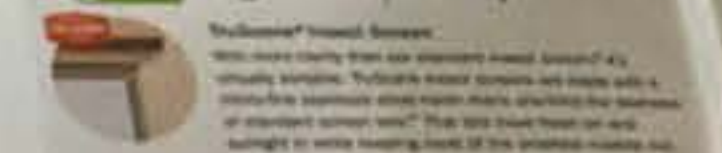
Lifts



WOCDs Required Y / N

Screens

High Transparency



Half / Full Screens

Grilles

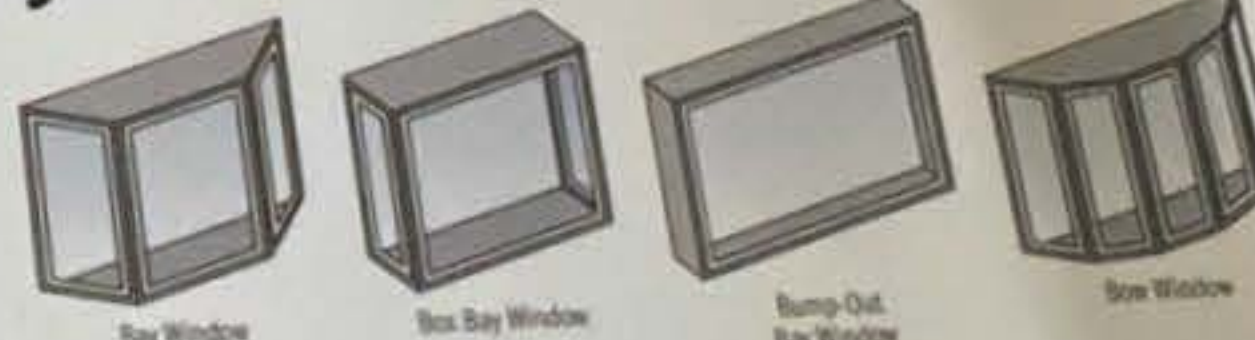
Patterns



Profiles



Bays & Bows



Roof Options¹⁰



Patio Doors

Handing: Change or As Existing





Addendum to Existing Contract

dba: RENEWAL BY ANDERSEN OF BOSTON

Legal Name: Renewal by Andersen LLC | License # HIC# 170810

30 Forbes Road | Northborough, MA 01532

Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonfileaudit@andersencorp.com

DON SILVERMAN

140 Chestnut Street Unit 402

Springfield, MA 01103

H: | C: (413)222-0985

Buyer(s) Name: Don Silverman Addendum Date: 05/29/26

Buyer(s) Street Address: [REDACTED]

Primary Telephone Number: _____ Secondary Telephone Number: (413)222-0985

Primary Email: donpsilverman@gmail.com Secondary Email: _____

This document is in reference to a contract agreement dated 05/28/26, between the parties that are named above in this document. May it be known that the undersigned parties, for good consideration, do hereby agree to make the following changes and / or additions that are outlined below. These additions shall be made valid as if they are included in the original stated contract.
No other terms or conditions of the above mentioned contract shall be negated or changed as a result of this here stated addendum.

ADDENDUM DETAILS

ID#	ROOM	WIDTH	HEIGHT	DETAILS	PRICE
- ITEM MODIFIED - 101	Bedroom 1	42-3/8"	70"	Window: Acclaim™ Double-Hung (DG), 1:1, Slope Sill , Insert Frame , Flat Sill , Insert Frame , Traditional Checkrail, Exterior Black, Interior Black, Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40, Glass: All Sash: High Performance SmartSun Glass, No Pattern, Hardware: Black, Standard Color Extra Lock, Screen: No Screen, Grille Style: No Grille, Misc: None	\$0
- ITEM MODIFIED - 102	Bedroom 1	42-3/8"	70"	Window: Acclaim™ Double-Hung (DG), 1:1, Slope Sill , Insert Frame , Flat Sill , Insert Frame , Traditional Checkrail, Exterior Black, Interior Black, Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40, Glass: All Sash: High Performance SmartSun Glass, No Pattern, Hardware: Black, Standard Color Extra Lock, Screen: No Screen, Grille Style: No Grille, Misc: None	\$0
- ITEM MODIFIED - 103	Living room	42-3/8"	70"	Window: Acclaim™ Double-Hung (DG), 1:1, Slope Sill , Insert Frame , Flat Sill , Insert Frame , Traditional Checkrail, Exterior Black, Interior Black, Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40, Glass: All Sash: High Performance SmartSun Glass, No Pattern, Hardware: Black, Standard Color Extra Lock, Screen: No Screen, Grille Style: No Grille, Misc: None	\$0
- ITEM MODIFIED - 104	Living room	42-3/8"	70"	Window: Acclaim™ Double-Hung (DG), 1:1, Slope Sill , Insert Frame , Flat Sill , Insert Frame , Traditional Checkrail, Exterior Black, Interior Black, Performance Calculator: PG Rating: 40 DP Rating: + 40 / - 40, Glass: All Sash: High Performance SmartSun Glass, No Pattern, Hardware: Black, Standard Color Extra Lock, Screen: No Screen, Grille Style: No Grille, Misc: None	\$0
- ITEM MODIFIED - 105	Living room	42-3/8"	70"	Window: Acclaim™ Double-Hung (DG), 1:1, Slope Sill , Insert Frame , Flat Sill , Insert Frame , Traditional Checkrail, Exterior Black, Interior Black, Performance	\$0



Addendum to Existing Contract

dba: RENEWAL BY ANDERSEN OF BOSTON
Legal Name: Renewal by Andersen LLC | License # HIC# 170810
30 Forbes Road | Northborough, MA 01532
Phone: (508)351-2200 | Fax: (508)986-7072 | rbabostonfileaudit@andersencorp.com

DON SILVERMAN
140 Chestnut Street Unit 402
Springfield , MA 01103
H: | C: (413)222-0985

ID#	ROOM	WIDTH	HEIGHT	DETAILS	PRICE
Calculator: PG Rating: 40 DP Rating: + 40 / - 40, Glass: All Sash: High Performance SmartSun Glass, No Pattern, Hardware: Black, Standard Color Extra Lock, Screen: No Screen, Grille Style: No Grille, Misc: None					

SALES TAX \$0

PRICE \$0

IN WITNESS WHEREOF, you and Contractor have caused this Addendum To be executed as of 05/29/26

Legal Name: Renewal by Andersen LLC
dba: Renewal By Andersen of Boston

Buyer(s) _____

Signature of Contractor Representative

Signature

Signature

Jonathan Gaytan Hernandez
Print Name

Don Silverman
Print Name

Print Name

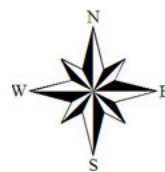


140 Chestnut Street GIS

6/30/2026 10:05:08 AM

Scale: 1"=150'

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.

042220036
A T & T COMMUNICATIONS
1010 PINE, 6E-L-01
SAINT LOUIS, MO 63101

027500532
AA LLC
73 E SCHOOL ST
WEST SPRINGFIELD, MA 01089

027500600
ALERS ABIGAIL
58 PINA CL
SPRINGFIELD, MA 01104

027500664
APPLETON GROVE LLC
67 SOUTH BEDFORD ST SUITE
BURLINGTON, MA 01803

018400055
APREMONT PROPERTIES LLC
81 INDEPENDENCE RD
FEEDING HILLS, MA 01030

018400060
APREMONT PROPERTIES LLC
81 INDEPENDENCE RD
FEEDING HILLS, MA 01030

027500525
APREMONT PROPERTIES LLC
81 INDEPENDENCE RD
FEEDING HILLS, MA 01030

027500573
ARROYO GEORGINA
140 CHESTNUT ST UNIT M-2
SPRINGFIELD, MA 01103

027500590
BALICKI FREDERICK &
400 CONANT RD
ATHOL, MA 01331

027500630
BANGZOOM INC
532 SECOND ST
GREENPORT, NY 11944

027500596
BARNES JEANNE M +
235 STATE ST - APT 206
SPRINGFIELD, MA 01103

027500650
BARTLETT DANIEL
8 ROCKLAND AVE
BOSTON, MA 02119

027500609
BLUNT JASMINE TR
24 MARGIN ST
NEW BEDFORD, MA 02744

027500580
BOEHMER JANET TR
4053 MAGNOLIA WAY APT 5
BEAVERCREEK, OH 45431

027500657
BORGES LAURA & STEVEN
140 CHESTNUT ST APT 610 APT
SPRINGFIELD, MA 01103

027500655
BOUTOURLINE NICHOLAS
13 BARLETT AVE
BELMONT, MA 02478

027500686
BOYNTON RAI AEL
140 CHESTNUT ST UNIT 805
SPRINGFIELD, MA 01103

027500688
BRONZE MONKEY
46 LAKEVIEW TERRACE
ASHLAND, MA 01721

027500645
CERIA ANTHONY E JR
9 EASTVIEW DR
BELCHERTOWN, MA 01007

063500015
CHESTNUT PARK
30 HUDSON YARDS #72
NEW YORK, NY 10001

027500038
CHESTNUT RESIDENCES LLC
268 COLD SPRING AVE SUITE
WEST SPRINGFIELD, MA 01089

027500685
COLE SUSAN
140 CHESTNUT ST APT 804
SPRINGFIELD, MA 01103

027500649
COLON GABRIEL & NICOLE
10851 64TH RD
FOREST HILLS, NY 11375

027500639
COLON MICKEY
140 CHESTNUT ST UNIT 509
SPRINGFIELD, MA 01103

027500663
COLON MILDRED C + GLENDA
140 CHESTNUT ST U 618
SPRINGFIELD, MA 01103

027500618
COLON TANIA
140 CHESTNUT ST APT 405 APT
SPRINGFIELD, MA 01103

027500626
CONLON-CONWAY THOMAS
140 CHESTNUT ST - UNIT 414
SPRINGFIELD, MA 01103

027500678
CRESPO NATANAEL
140 CHESTNUT ST UNIT 706
SPRINGFIELD, MA 01103

027500587
CRESPO NATANAEL
140 CHESTNUT ST UNIT 706
SPRINGFIELD, MA 01103

027500670
CRESPO NATANAEL
140 CHESTNUT ST APT 706
SPRINGFIELD, MA 01103

027500652
CURIEL SUDAN & VARGAS
1065 DR MARTIN L KING
BRONX, NY 10452

027500595
D & K REALTY INC
140 CHESTNUT ST #218
SPRINGFIELD, MA 01103

027500675
DALY STEPHEN
140 CHESTNUT ST U-A
SPRINGFIELD, MA 01103

027500700
DALY STEPHEN C
140 CHESTNUT ST U-A
SPRINGFIELD, MA 01103

027500578
DEMERS CRAIG P
140 CHESTNUT ST-103
SPRINGFIELD, MA 01103

027500622
DIAZ ANTHONY NOEL
140 CHESTNUT ST APT 409
SPRINGFIELD, MA 01103

027500614
DIAZ JACQUELINE
15 DELAWARE ST
SPRINGFIELD, MA 01119

027500689
DINH STEPHEN
1583 RIVERDALE ST APT 4 APT
WEST SPRINGFIELD, MA 01089

027500625
DINH STEPHEN
1583 RIVERDALE ST APT 4 APT
WEST SPRINGFIELD, MA 01089

027500654
DNEPRO PROPERTIES LLC
24 DELL ST
EAST LONGMEADOW, MA

027500698
DOMBROWSKI STANLEY E JR
140 CHESTNUT ST UNIT 819
SPRINGFIELD, MA 01103

027500681
ERIKSON MICHAEL J &
140 CHESTNUT ST UNIT 719
SPRINGFIELD, MA 01103

027500589
FERNANDES JOSE C
140 CHESTNUT ST SUITE 210
SPRINGFIELD, MA 01103

027500611
GIBBONS RICHARD &
222 DEBBIE DR
MERIDEN, CT 06451

027500615
GLUCK PAUL D & CHELSEA A
140 CHESTNUT ST UNIT 401
SPRINGFIELD, MA 01103

027500691
GONZALEZ PEDRO & JOSE
103 SAVOY AVE
SPRINGFIELD, MA 01104

027500581
GONZALEZ SUHAIL
52 MOUNTAIN VIEW ST
SPRINGFIELD, MA 01108

027500633
GRAINGE WILLIAM S TR
3 GLOVER CIR
SOMERVILLE, MA 02144

027500694
HASENJAGER CAROL A
140 CHESTNUT ST - UNIT 814
SPRINGFIELD, MA 01103

027500638
HAYNES ALEX L
140 CHESTNUT ST U 508
SPRINGFIELD, MA 01103

027500593
HELPA JON J TRUSTEE C/O
140 CHESTNUT ST APT 619
SPRINGFIELD, MA 01103

027500619
HENRIQUEZ ALEXANDER
140 CHESTNUT ST UNIT 406
SPRINGFIELD, MA 01103

027500673
HENRIQUEZ CARLOS
1501 INDIA ST UNIT 306
SAN DIEGO, CA 92101

027500640
HENRIQUEZ CAROL TR
17 MASON ST
MEDFORD, MA 02155

027500608
HERNANDEZ LUISELIS
140 CHESTNUT ST #312
SPRINGFIELD, MA 01103

027500632
HERRERA GEORGINA
140 CHESTNUT ST U501
SPRINGFIELD, MA 01103

027500667
HUANG JIN XIN
140 CHESTNUT ST UNIT 702
SPRINGFIELD, MA 01103

027500597
HUGHES JASON
140 CHESTNUT ST APT 220
SPRINGFIELD, MA 01103

027500695
HUSSEINI SARA
23 S RIDGE RD
HAMPDEN, MA 01036

027500571
IRON WORKERS BOSTON
195 OLD COLONY AVE
SOUTH BOSTON, MA 02127

027500570
IRON WORKERS BOSTON
195 OLD COLONY AVE
SOUTH BOSTON, MA 02127

027500582
KANE DRISANA
140 CHESTNUT ST UNIT 202
SPRINGFIELD, MA 01103

027500598
KAPDOO LLC
176 BEEKMAN DR
AGAWAM, MA 01001

027500641
KAPLAN TINA S.
50 DOGWOOD LANE UNIT 50
AGAWAM, MA 01001

027500696
KEENER AMY E
140 CHESTNUT ST UNIT 816
SPRINGFIELD, MA 01103

027500665
KIRBY KATHRYN A.
166 BOWDOIN ST
SPRINGFIELD, MA 01109

027500682
KIRBY PAMELA J
166 BOWDOIN ST
SPRINGFIELD, MA 01109

027500690
LOPEZ FELIX
140 CHESTNUT ST UNIT 809
SPRINGFIELD, MA 01103

027500601
LORENZO JASMIN
203 BELCHER ST
BROCKTON, MA 02302

027500576
LORENZO RUBY
257 WESTVILLE ST
DORCHESTER, MA 02122

027500577
LOUDER ROBERT
140 CHESTNUT ST UNIT 102
SPRINGFIELD, MA 01103

027500671
MAHON CARMEL M TR
518 MOHEGAN AVENUE PKWY
QUAKER HILL, CT 06375

027500574
MARTINEZ JUAN
7 DIANA LANE
WINDSOR, CT 06095

027500579
MASKALEU DZMITRY
136 B HOSBER ST
WEST BOYLSTON, MA 01583

027500647
MCCARTHY REALTY GROUP
734 BLISS RD SUITE 4
LONGMEADOW, MA 01106

027500642
MOORE CLAIRE M
29 RIVERDALE RD
BILLERICA, MA 01821

027500692
MORANGE KELCEY
140 CHESTNUT ST U 811
SPRINGFIELD, MA 01103

027500656
MORANGE KELCEY
369 ADAMS ST APT 2L
BOSTON, MA 02122

027500612
MORANGE KELCEY
396 ADAMS ST APT 2L
BOSTON, MA 02122

027500623
MORANGE KELCEY
369 ADAMS ST APT 2L
BOSTON, MA 02122

027500584
MOULINE RYAD
35 PORTER RD
NATICK, MA 01760

027500586
MOULINE RYAD
35 PORTER RD
NATICK, MA 01760

027500610
MUISE JOHN
269 VENTURA ST
LUDLOW, MA 01056

027500627
NAPOLITAN CHRISTINE L
P O BOX 424
WEST TISBURY, MA 02575

125350287
NEW ENGLAND TELEPHONE
P O BOX 2749
ADDISON, TX 75001

027500637
NORTHRUP WILLIAM B
32 CLIFTON AVE UNIT 1
BROCKTON, MA 02301

027500636
OLDE LINDEN REALTY LLC
8 ROCKLAND AVE
BOSTON, MA 02119

027500606
PARVATHANENI KESAV &
140 CHESTNUT ST APT 310 APT
SPRINGFIELD, MA 01103

027500680
PEACEFUL RENTALS LLC
PO BOX 601
SOUTH YARMOUTH, MA 02664

027500644
PEACEFUL RENTALS LLC
24 JAMES OTIS RD
CENTERVILLE, MA 02632

027500594
PM ENTERPRISES LLC
36 RUSS ST. 3RD FL #641
HARTFORD, CT 06106

027500602
POLAND CURTIS T &
140 CHESTNUT ST UNIT 306
SPRINGFIELD, MA 01103

027500604
POLITE TONEY & TRACEY
33 METZGER PL
SPRINGFIELD, MA 01104

027500677
RA PROPERTIES INC
1819 PAGE BLVD
SPRINGFIELD, MA 01104

027500701
RA PROPERTIES INC
1819 PAGE BLVD
INDIAN ORCHARD, MA 01151

027500634
RA PROPERTY INC
1819 PAGE BLVD
INDIAN ORCHARD, MA 01151

027500628
RA PROPERTY INC
1819 PAGE BLVD
INDIAN ORCHARD, MA 01151

027500613
REBELLION ASSETS AND
141 FOREST PARK AVE
SPRINGFIELD, MA 01108

027500605
RENNELL HEATHER A
140 CHESTNUT ST APT 309
SPRINGFIELD, MA 01103

027500687
REYES LENIX OMAR VEGA
140 CHESTNUT ST UNIT 806
SPRINGFIELD, MA 01103

027500629
RGA PROPERTIES LLC
454 PARKER ST
EAST LONGMEADOW, MA

027500624
RGA PROPERTIES LLC
454 PARKER ST
EAST LONGMEADOW, MA

027500617
RGA PROPERTIES LLC
454 PARKER ST
EAST LONGMEADOW, MA

027500620
RGA PROPERTIES LLC
455 PARKER ST
EAST LONGMEADOW, MA

027500648
RINALDI PEASE PROPERTIES
27 THACHER ST
BOSTON, MA 02113

027500592
RINALDI PEASE PROPERTIES
27 THACHER ST
BOSTON, MA 02113

027500693
RIVERA MARIA N
10 DECKER PL
SPRINGFIELD, MA 01104

027500643
RIVERA MARIA N
10 DECKER PL
SPRINGFIELD, MA 01104

027500658
ROBERT ZAISHA M & ERIC
267 WALNUT ST
HOLYOKE, MA 01040

027500660
ROBERTS MARLENE
140 CHESTNUT UNIT 614
SPRINGFIELD, MA 01103

027500659
ROBERTS MARLENE C
140 CHESTNUT ST UNIT 612
SPRINGFIELD, MA 01103

027500672
ROLLER ANASTAYSHA TR
74 HERSCHEL ST
LYNN, MA 01902

027500607
ROMAN FRANCISCO
116 WESTMINSTER ST
SPRINGFIELD, MA 01109

027500661
ROMAN PATRICIA
116 WESTMINSTER ST
SPRINGFIELD, MA 01109

027500585
ROOS MICHAEL
140 CHESTNUT ST APT 206 APT
SPRINGFIELD, MA 01103

027500631
ROSA MICHAEL
29 RIVERDALE RD
BILLERICA, MA 01821

027500697
ROSA NICHOLAS J & CAROL
128 PARTRIDGE RD
BILLERICA, MA 01821

027500662
ROTIN ANNA
144 MAPLE ST
AGAWAM, MA 01001

027500653
RYAN SARAH ANNE
140 CHESTNUT ST APT 606
SPRINGFIELD, MA 01103

027500683
SANTANIELLO ANTHONY L
195 GROVELAND ST
SPRINGFIELD, MA 01108

027500635
SCORPIO INVESTMENTS LLC
6 FOUNTAIN ST
PEABODY, MA 01960

027500646
SCOTT M WILLETT
5 CLARK ST
BELCHERTOWN, MA 01007

027500684
SELOCIN INC
1819 PAGE BLVD
INDIAN ORCHARD, MA 01151

027500668
SELOCIN INC
1819 PAGE BLVD
INDIAN ORCHARD, MA 01151

027500651
SHELTON LOUIS
57 LESLIE ST
WINDSOR LOCKS, CT 06096

027500679
SILVA DAVID
PO BOX 601
SOUTH YARMOUTH, MA 02664

027500616
SILVERMAN DON PHILLIP
140 CHESTNUT ST UNIT 402
SPRINGFIELD, MA 01105

027500583
SMITH ALAN W
140 CHESTNUT ST UNIT 204
SPRINGFIELD, MA 01103

027500699
SMITH SHELDON G.
92 AMORE RD
SPRINGFIELD, MA 01109

027500603
SPIER GEOFFREY
48 CHURCH ST
GILBERTVILLE, MA 01031

027500572
SPIER GEOFFREY B
140 CHESTNUT ST UNIT M1
SPRINGFIELD, MA 01103

018400043
SPRINGFIELD BRIDGE
41 ELIZABETH ST
NEW YORK, NY 10013

018400046
SPRINGFIELD BRIDGE
41 ELIZABETH ST
NEW YORK, NY 10013

027500048
SPRINGFIELD BRIDGE
41 ELIZABETH ST
NEW YORK, NY 10013

027500527
SPRINGFIELD CITY OF
36 COURT ST
SPRINGFIELD, MA 01103

042220370
SPRINGFIELD PARKING
150 BRIDGE ST
SPRINGFIELD, MA 01103

027500588
THOMAS DENNIS
140 CHESTNUT ST UNIT 209
SPRINGFIELD, MA 01103

027500666
VACHON WILLIAM R
140 CHESTNUT ST #701
SPRINGFIELD, MA 01103

027500669
VALDES LIZA M
140 CHESTNUT ST UNIT 209
SPRINGFIELD, MA 01103

027500674
VEGA LENIX R
140 CHESTNUT ST UNIT 710
SPRINGFIELD, MA 01103

042220375
VLZ LLC
155 CAREW ST
CHICOPEE, MA 01020

066200016
VLZ LLC
155 CAREW ST
CHICOPEE, MA 01020

027500591
WHITEHEAD LYNN L & JAMES
140 CHESTNUT ST UNIT 212
SPRINGFIELD, MA 01103

027500575
WIGGINS MICHAEL D &
166 NOTTINGHAM ST
EAST LONGMEADOW, MA

027500676
WILSON ELIZABETH ANN M
37 AMHERST ST UNIT 712
GRANBY, MA 01033

027500599
YOUMANS CHARLES
102 TAMARACK DR
SPRINGFIELD, MA 01129

027500621
YOUMANS CHARLES
102 TAMARACK DR
SPRINGFIELD, MA 01129



Springfield Historical Commission



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

APPLICATION CHECKLIST

PROPERTY ADDRESS: 77 Maple 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>Lower Maple</u>	DECISION:
DATE RECEIVED: <u>July 2, 2026</u>	DECISION DATE:
HEARING DATE: <u>July 16, 2026</u>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <u>July 2, 2026</u>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <u>July 2, 2026</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: 77 Maple 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: <i>77 Maple Street Springfield Ma</i>		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: <i>Hong Qian</i>		
OWNER ADDRESS: <i>64 Warner Street Springfield Ma. 01108.</i> ☐ Check box if same as property address		
OWNER PHONE NUMBER: / [REDACTED]	REPRESENTATIVE/CONTRACTOR NAME:	
OWNER EMAIL ADDRESS: [REDACTED]	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE: <i>08218-0187</i>	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED):		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.

PROPERTY OWNER'S SIGNATURE

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: The existing where install from the construction of the building, these window are damaged and not energy efficient.

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE WINDOWS: windows are damage, some are missing and broken in some areas. Existing window are not energy efficient. Must existing windows can't be Close properly and repair cost would exceed the replacement cost.

NUMBER OF WINDOWS TO BE REPLACED/ADDED:

15

NEW WINDOW MANUFACTURER:

MODEL NUMBER(S):

EXISTING

PROPOSED

MATERIAL (e.g. wood, vinyl, aluminum, etc.):

wood

Aluminum Black.

EXTERNAL COLOR(S) (e.g. black, white, etc.):

white / green.

Black

GRID PLACEMENT (Interior or Exterior):

GRID PATTERN (e.g. two-over-two; six-over-one, etc.):

No grid.

WINDOW STYLE(S) (e.g. double-hung, etc.):

double hung

GLASS TYPE(S) (e.g. single-pane, double-pane, etc.):

double-pane

ADDITIONAL INFORMATION:

Storm windows (Black in color) will be place on the exterior of the existing.

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):

The Existing front entry door is a full glass Aluminum door with transom door glass missing.
The existing side entry door is damaged and cannot close properly.

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

Propose metal Roped solid door with two light to front entry door.
The side Entry door to be replace with metal Roped solid wood entry door.

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

One (1)

NEW DOOR MANUFACTURER:

MODEL NUMBER(S):

EXISTING

PROPOSED

MATERIAL (e.g. steel, fiberglass, etc.):

wooden

steel

EXTERNAL COLOR(S) (e.g. black, white, etc.):

green

white

DOOR STYLE(S) (e.g. colonial, etc.):

colonial.

PANEL PATTERN (e.g. single; two panel, etc.):

6 panel.

GLASS PLACEMENT:

GLASS TYPE(S) (e.g. single-pane, double-pane, etc.):

ADDITIONAL INFORMATION:

PRESERVATION RESTRICTION AGREEMENT
between the COMMONWEALTH OF MASSACHUSETTS
by and through the MASSACHUSETTS HISTORICAL COMMISSION
and the Springfield Preservation Trust, Incorporated

The parties to this Agreement are the Commonwealth of Massachusetts, by and through the Massachusetts Historical Commission located at the Massachusetts Archives Building, 220 Morrissey Boulevard, Boston, Massachusetts 02125, hereinafter referred to as the Commission, and the Springfield Preservation Trust, Incorporated, 74 Walnut Street, Springfield, Massachusetts 01105, hereinafter referred to as the Grantor.

WHEREAS, the Grantor is the owner in fee simple of certain real property with improvements known as the Female Seminary, thereon as described in a deed dated January 9, 2009, from David Vu, to the Springfield Preservation Trust, Incorporated, recorded with the Hampden County Registry of Deeds, Book 17625, Page 188, and which is located at 77 Maple Street, Springfield, Massachusetts 01105, hereinafter referred to as the Premises. The Premises is also shown and described in attachments Exhibit A hereto and incorporated herein by reference. The Premises is subject to the Right of Way and Easement granted to Maple Properties Limited Partnership, dated 11/7/2002, and recorded in the Hampden County Registry of Deeds in Book 12705, page 429. See also Book of Plans 327, Page 23. The Premises is also subject to a Taking of Easement for the widening of Maple Street as set forth in an instrument dated 1/21/1963 and recorded in Book 2935, Page 223. See also Book of Plans 88, Pages 58-65.

WHEREAS, the Grantor wishes to impose certain restrictions, obligations and duties upon it as the owner of the Premises and on the successors to its right, title and interest therein, with respect to maintenance, protection, and preservation of the Premises in order to protect the architectural, archaeological and historical integrity thereof; and

WHEREAS, the preservation of the Premises is important to the public for the enjoyment and appreciation of its architectural, archaeological and historical heritage and will serve the public interest in a manner consistent with the purposes of M.G.L. chapter 184, section 32, hereinafter referred to as the Act; and

WHEREAS, the Premises is listed in the State Register of Historic Places as a contributing property to the Lower Maple Street Local Historic District; and

WHEREAS, the Commission is a government body organized under the laws of the Commonwealth of Massachusetts and is authorized to accept these preservation restrictions under the Act;

NOW, THEREFORE, for good and valuable consideration, the Grantor conveys to the Commission the following preservation restrictions, which shall apply in Perpetuity to the Premises.

These preservation restrictions are set forth so as to ensure the preservation of those characteristics which contribute to the architectural, archaeological and historical integrity of the Premises which have been listed in the National and/or State Registers of Historic Places, under applicable state and federal legislation. Characteristics which contribute to the architectural, archaeological and historical integrity of the Premises include, but are not limited to, the artifacts, features, materials, appearance, and workmanship of the Premises, including those characteristics which originally qualified the Premises for listing in the National and/or State Registers of Historic Places.

The terms of the Preservation Restriction are as follows:

1. Maintenance of Premises: The Grantor agrees to assume the total cost of continued maintenance, repair and administration of the Premises so as to preserve the characteristics which contribute to the architectural, archaeological and historical integrity of the Premises in a manner satisfactory to the Commission according to the Secretary of the Interior's "Standards for the Treatment of Historic Properties." The Grantor may seek financial assistance from any source available to it. The Commission does not assume any obligation for maintaining, repairing or administering the Premises.
2. Inspection: The Grantor agrees that the Commission may inspect the Premises from time to time upon reasonable notice to determine whether the Grantor is in compliance with the terms of this Agreement.
3. Alterations: The Grantor agrees that no alterations shall be made to the Premises, including the alteration of any interior, unless (a) clearly of minor nature and not affecting the characteristics which contribute to the architectural, archaeological or historical integrity of the Premises, or (b) the Commission has previously determined that it will not impair such characteristics after reviewing plans and specifications submitted by the Grantor, or (c) required by casualty or other emergency promptly reported to the Commission. Ordinary maintenance and repair of the Premises may be made without the written permission of the Commission. For purposes of this section, interpretation of what constitutes alterations of a minor nature and ordinary maintenance and repair is governed by the Restriction Guidelines which are attached to this Agreement and hereby incorporated by reference.
4. Notice and Approval: Whenever approval by the Commission is required under this restriction, Grantor shall request specific approval by the Commission not less than (30) days prior to the date

Grantor intends to undertake the activity in question. A request for such approval by the grantor shall be reasonably sufficient as a basis for the Commission to approve or disapprove the request. The notice shall describe the nature, scope, design, location, timetable and any other material aspect of the proposed activity in sufficient detail to permit the Commission to make an informed judgment as to its consistency with the purposes of this Preservation Restriction. Within (30) days of receipt of Grantor's reasonably sufficient request for said approval, the Commission shall, in writing, grant or withhold its approval, or request additional information relevant to the request and necessary to provide a basis for its decision. However, should the Commission determine that additional time is necessary in order to make its decision the Commission shall notify the Grantor. The Commission's approval shall not be unreasonably withheld, and shall be granted upon a reasonable showing that the proposed activity shall not materially impair the purpose of this Preservation Restriction. Failure of the Commission to make a decision within sixty (60) days from the date on which the request is accepted by the Commission or notice of a time extension is received by the Grantor shall be deemed to constitute approval of the request as submitted, so long as the request sets forth the provisions of this section relating to deemed approval after the passage of time.

5. Assignment: The Commission may assign this Agreement to another governmental body or to any charitable corporation or trust among the purposes of which is the maintenance and preservation of historic properties only in the event that the Commission should cease to function in its present capacity.

6. Validity and Severability: The invalidity of M.G.L. c. 184 or any part thereof shall not affect the validity and enforceability of this Agreement according to its terms. The invalidity or unenforceability of any provision of this Agreement shall not affect the validity or enforceability of any other provision of this Agreement.

7. Recording: The Grantor agrees to record this Agreement with the appropriate Registry of Deeds and file a copy of such recorded instrument with the Commission.

8. Other Provisions: None applicable.

The burden of these restrictions enumerated in paragraphs 1 through 8, inclusive, shall run with the land and is binding upon future owners of an interest therein.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 30th day of March, 2011.

Springfield Preservation Trust, Inc.

By: [Signature]
 Name: Benjamin Murphy
 Title: President

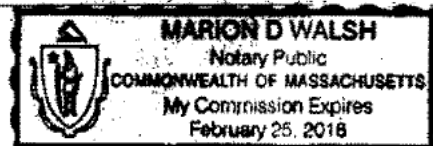
COMMONWEALTH OF MASSACHUSETTS

Hampshire, ss.

On this 30th day of March, 2011, before me, the undersigned notary public, personally appeared Benjamin Murphy, proved to me through satisfactory evidence of identification, which was (a current driver's license) (a current U.S. passport) (my personal knowledge of the identity of the principal), to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purposes.

[Signature]
 Notary Public

My Commission Expires _____



APPROVAL BY THE MASSACHUSETTS HISTORICAL COMMISSION

The undersigned hereby certifies that the foregoing preservation restrictions have been approved pursuant to Massachusetts General Laws, Chapter 184, section 32.

MASSACHUSETTS HISTORICAL COMMISSION

By Brona Simon
Brona Simon
Executive Director and Clerk
Massachusetts Historical Commission

COMMONWEALTH OF MASSACHUSETTS

Suffolk, ss.

On this 11th day of April, 2011, before me, the undersigned notary public, personally appeared Brona Simon, proved to me through satisfactory evidence of identification, which was (~~a current driver's license~~) (~~a current U.S. passport~~) (my personal knowledge of the identity of the principal), to be the person whose name is signed on the preceding or attached document, and acknowledged to me that s/he signed it voluntarily for its stated purposes.

Notary Public

Nancy Maigda
My Commission Expires January 19, 2012

RESTRICTION GUIDELINES

The purpose of the Restriction Guidelines is to clarify paragraph three of the terms of the preservation restriction, which deals with alterations to the premises. Under this section permission from the Massachusetts Historical Commission is required for any major alteration. Alterations of a minor nature, which are part of ordinary maintenance and repair, do not require MHC review.

In an effort to explain what constitutes a minor alteration and what constitutes a major change, which must be reviewed by the MHC, the following list has been developed. By no means is this list comprehensive: it is only a sampling of some of the more common alterations, which may be contemplated by building owners.

PAINT

Minor - Exterior or interior hand scraping and repainting of non-decorative and non-significant surfaces as part of periodic maintenance.

Major - Painting or fully stripping decorative surfaces or distinctive stylistic features including murals, stenciling, wallpaper, ornamental woodwork, stone, decorative or significant original plaster.

WINDOWS AND DOORS

Minor - Regular maintenance including caulking, painting and necessary reglazing. Repair or in-kind replacement of existing individual decayed window parts.

Major - Wholesale replacement of units; change in fenestration or materials; alteration of profile or setback of windows. The addition of storm windows is also considered a major change; however, with notification it is commonly acceptable.

EXTERIOR

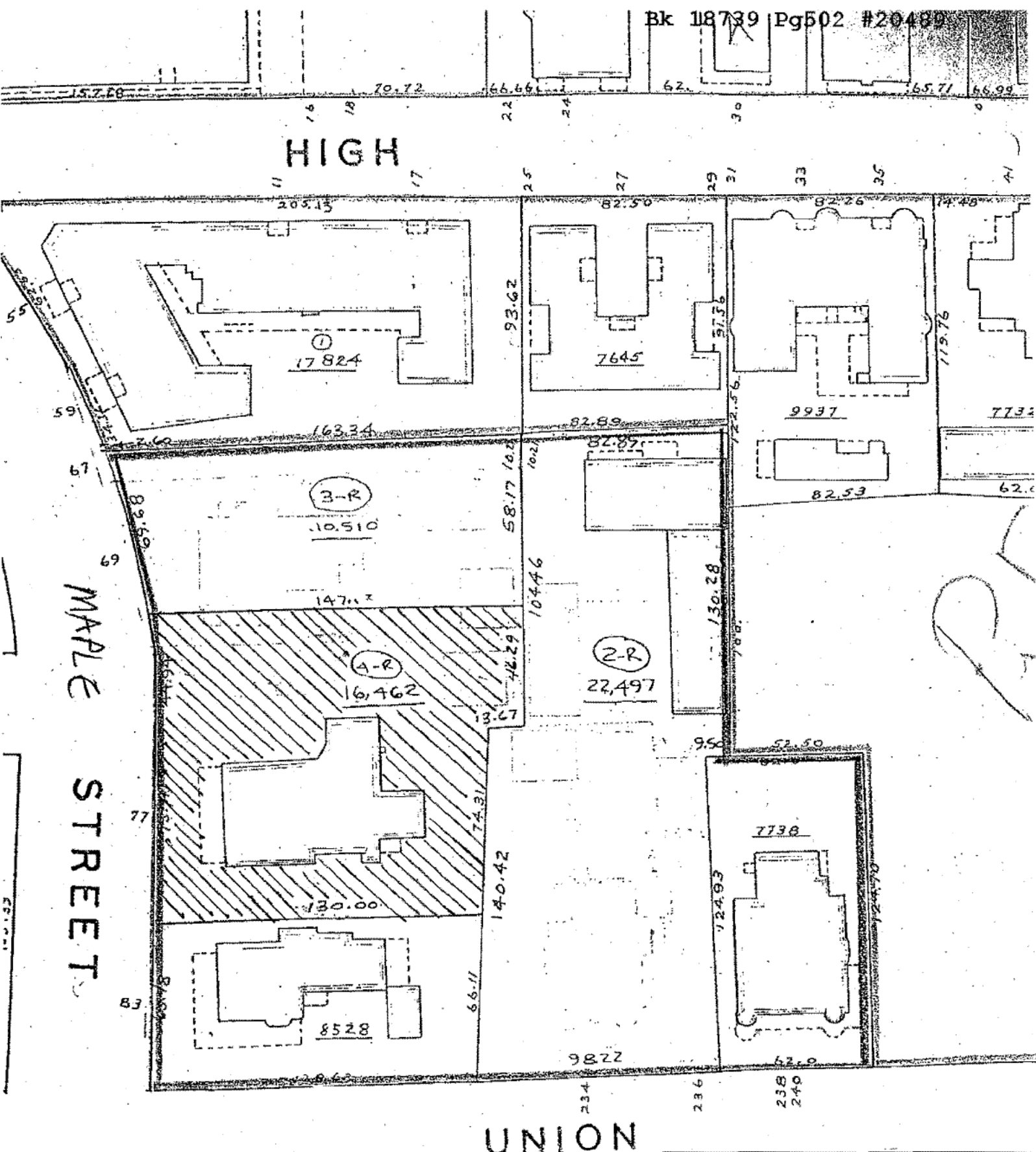
Minor - Spot repair of existing cladding and roofing including in-kind replacement of clapboards, shingles, slates, etc.

Major - Large-scale repair or replacement of cladding or roofing. Change involving inappropriate removal or addition of materials or building elements (i.e. removal of chimneys or cornice detailing; installation of architectural detail which does not have a historical basis); altering or demolishing building additions; spot repointing of masonry. Structural stabilization of the property is also considered a major alteration.

LANDSCAPE/OUTBUILDINGS

Minor - Routine maintenance of outbuildings and landscape including lawn mowing, pruning, planting, painting, and repair.

Major - Moving or subdividing buildings or property; altering of property; altering or removing significant landscape features such as gardens, vistas, walks, plantings; ground disturbance affecting archaeological resources.



UNION

DONALD E. ASHE, REGISTER
HAMPDEN COUNTY REGISTRY OF DEEDS

EXHIBIT A

City of Springfield
Block Plan 408
WPA Property Survey Project 20317
Building Department
Data complete to 7-1-40, with later revisions.

Quan Hong

77 Maple Street

Springfield MA. 01105

The Massachusetts Historical Commission

1 Ashburton Place

Boston, MA 02108

Good day Mr. Paul Holtz

We are therefore requesting approval from the Historical Commission to proceed with the renovation of the building located at 77 Maple Street in the city of Springfield.

Please find attached a list of items requiring your approval. We look forward to your positive response.

Best,

From: [REDACTED]
To: [REDACTED]
Cc: [Strniste, Andrew](#); [REDACTED]
Subject: [External] 77 Maple Street Springfield Ma
Date: Thursday, July 2, 2026 2:55:01 PM
Attachments: [77 Maple Street Storm Windows and entry doors.pdf](#)

Good afternoon Sir

I am reaching out to you for any information on any of the items you has approved, we came your office and present all proposal to install storm windows to protect the existing ones after repair. We also wanted to remove and replace front and side entry door (see specification proposal). Repoint chimney
we definitely need your feedback on the way forward.

Thank you.

Courtney O. Rose (B.Sc.) Construction Engineer

CAUTION: This email originated outside our organization; please use caution.

From: [REDACTED]
To: [REDACTED]
Cc: [REDACTED] [Strniste, Andrew](#)
Subject: [External] Re: 77 Maple Street Springfield Ma
Date: Thursday, July 2, 2026 3:25:44 PM

Dear all,

I prefer white storm windows or aluminum color storm windows.
I paid attention for many yellow exterior houses in different Springfield historic districts.
Almost all of the windows are white color with white trims.

Black window is too strong contrast. I really don't like the black-yellow combination.

Sincerely,
Hong

On Thu, Jul 2, 2026 at 2:54 PM Courtney Rose <[REDACTED]> wrote:

Good afternoon Sir

I am reaching out to you for any information on any of the items you has approved, we came your office and present all proposal to install storm windows to protect the existing ones after repair.

We also wanted to remove and replace front and side entry door (see specification proposal). Repoint chimney

we definitely need your feedback on the way forward.

Rm

Thank you.

Courtney O. Rose (B.Sc.) Construction Engineer

CAUTION: This email originated outside our organization; please use caution.

77 Maple Street Springfield Ma

Windows proposal

We are seeking permission to to renovate the existing building, repair the existing windows and install black frame aluminium storm windows on the exterior ot the existing windows after they are reapaired.

Samples of storm windows form neighboring buildings.



Custom Made Storm Windows

Storm Windows

If you have older windows in your home and are looking for a way to improve the energy-efficiency of that home, a good option is to use storm windows mounted over your existing windows. According to the U.S. Department of Energy, "Storm windows can reduce heat loss through the windows by 25% to 50%".

Even though storm windows are typically built with only single-glazed windows, studies have found that they can dramatically help improve the energy-efficiency of your home by reducing the air movement in and out of the windows; thereby helping to decrease the heating and cooling costs in the home.

It all comes down to the amount of "dead air" space that is created between the storm window and the existing window. The more expensive storm windows will typically be deeper to create a larger "dead air" space and also come with some type of thermal break.

There are several different types of storm windows as well as a couple of different methods for installation that we'll cover below.

Benefits of Storm Windows:

Improve the energy efficiency of your home by reducing the amount of air flow that passes through existing windows

Reduces the amount of dust and pollen infiltration

Help with the reduction of noise from outside the home.

Protection of existing windows from weather, wind, and other harmful elements.

Improves the exterior appearance of a home by providing an economical way of covering older windows. With a range of colors, a storm window can be built to best match the exterior of your home.

Types of Storm Windows

There are different types of storm windows, depending on:

Where you want them to be located (interior or exterior)

What type of operation do you want (storm window that opens or just a fixed picture window)

Your available budget (everything from economy to premium)

Any type of special request (for example, tempered glass that is made to resist shattering)

Different Types depending on:

LOCATION:

Interior – Interior storm windows mount on the inside of the home, and are designed to fit inside the window opening

Exterior – Exterior storm windows mount on the outside of the existing window.

STYLE of CONSTRUCTION / BUDGET:

Two-Track – a two-track storm window will have one track dedicated to the inside storm window sash, and one track dedicated to the outside storm window sash on the top and a screen on the bottom. In a two-track window, only the inside glass sash will move independently up and down to open the window for ventilation.

Three-Track - a three-track (or triple track) storm window will have one track dedicated to an operating glass sash, one track dedicated to an operating glass sash, and the outside track dedicated to two screens. In a three-track window, both glass sashes will move independently (one up and one down) to allow for the most versatile ventilation.

Fixed – a fixed or picture storm window, does not allow for any operation and is a single sheet of glass mounted on the frame. These are perfect for existing casement windows that do not open or windows where ventilation is not going to be needed.

Our storm windows are all made with aluminum frame construction (either solid extruded or tubular) with some type of thermal break, usually vinyl.

Installation

Installation of storm windows is straight forward. You just screw the storm window to either the window stops or the window casement depending on the type of installation method you choose. No matter how you choose to install it, the storm window must be square with the old window and sealed.

Exterior-mounted storm windows must have 'weep holes' at the bottom of the frame to allow any moisture that collects between the existing window and the new storm window to drain out. Whatever you do, DO NOT caulk over these weep holes!!

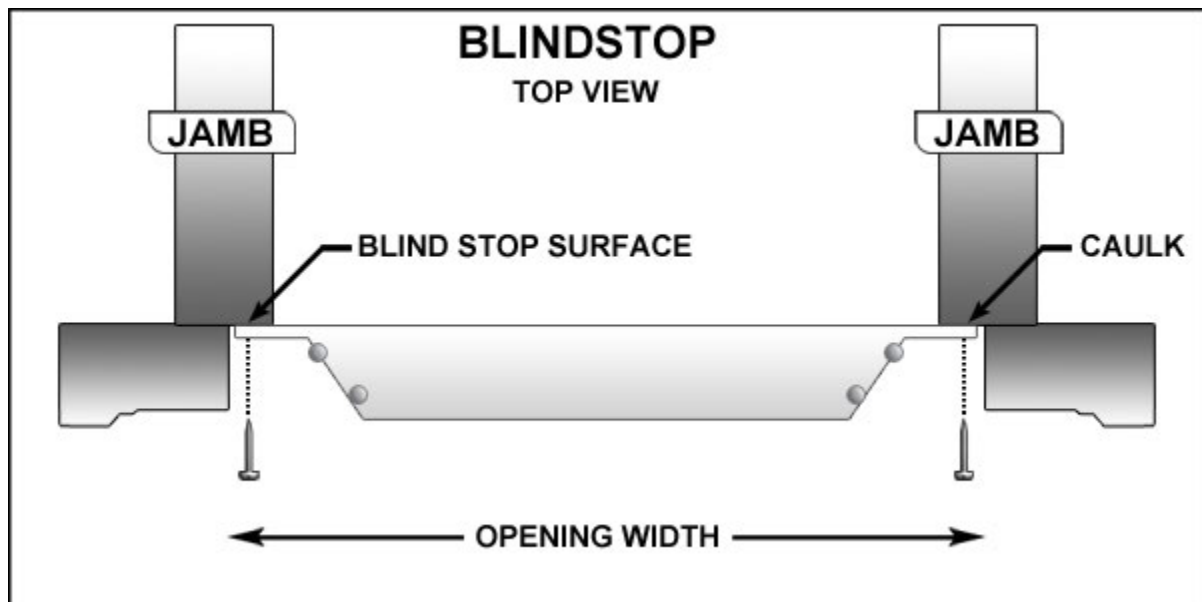
How to Measure Storm Windows

There are generally three methods for installing Storm Windows that affect the way that they are measured. Those methods are:

- Blind Stop installation (or attaching the storm window into the Blind Stop of the window)
- Overlap installation (or direct mounting the storm window to the outside of the window Casement)
- Window Track Installation (or inserting the storm window into the screen track of the window)

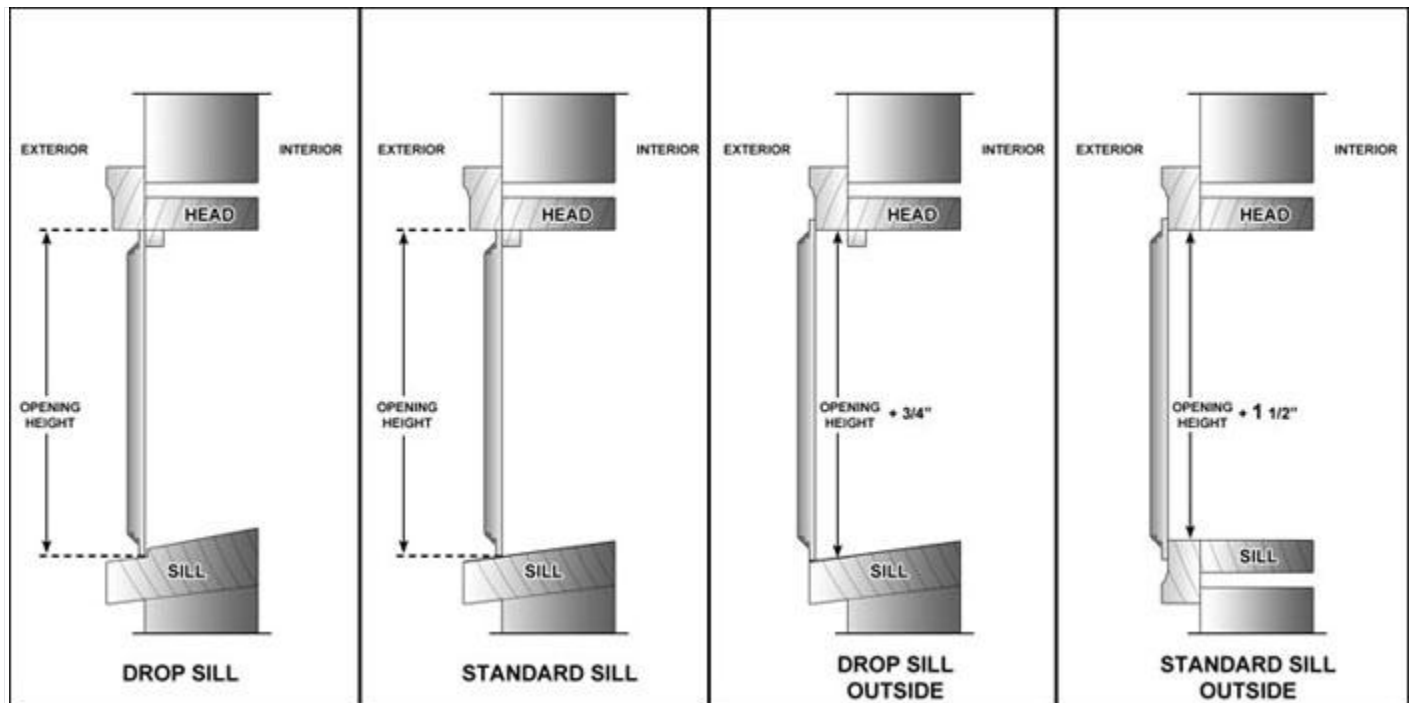
Measuring for a BLIND STOP Installation:

Step 1: Measure the width of the window in three different places, near the TOP, the MIDDLE, and at the BOTTOM. Record the smallest of these measurements for the WIDTH.



Step 2: Measure the height of the window on the left and right. There typically can be two different types of window sills (at the bottom of the window) that can affect the height measurement: DROP SILL and STANDARD SILL.

- ❑ For a DROP SILL, make sure to measure to the bottom of the DROP.
- ❑ For a STANDARD SILL, you'll need to measure the height to the highest point on the sill that is in-line with the top HEAD stop.

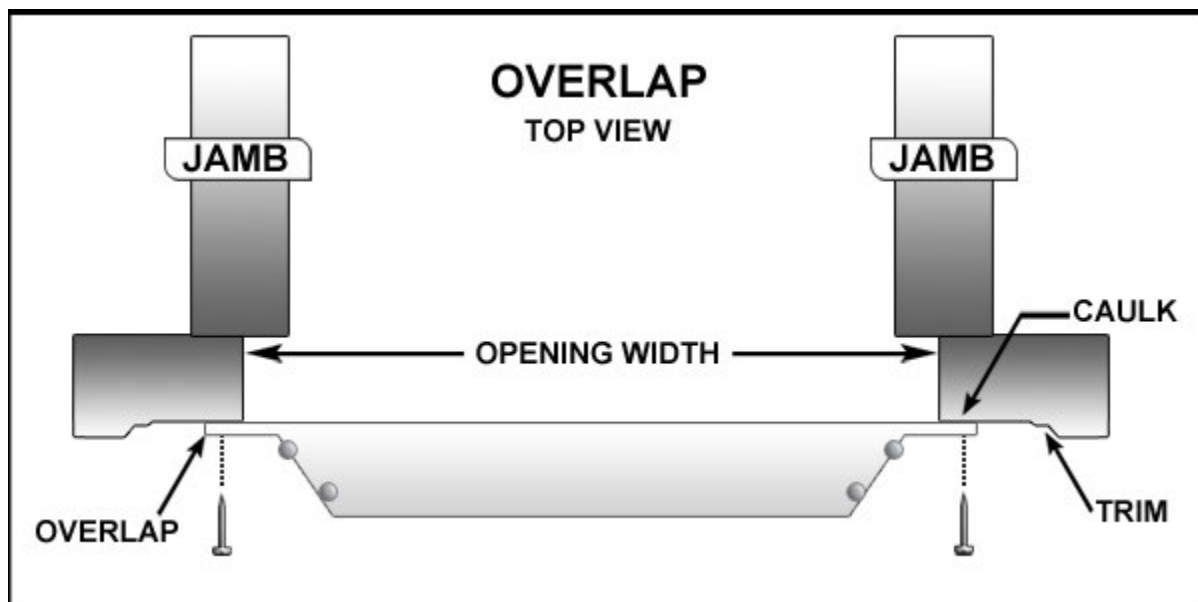


Step 3: Measuring the Storm Window 'Meeting Rail'

When measuring for your Meeting Rail location, measure from the top of the storm window to the middle of where the two window panels meet.

Measuring for an OVERLAP Installation:

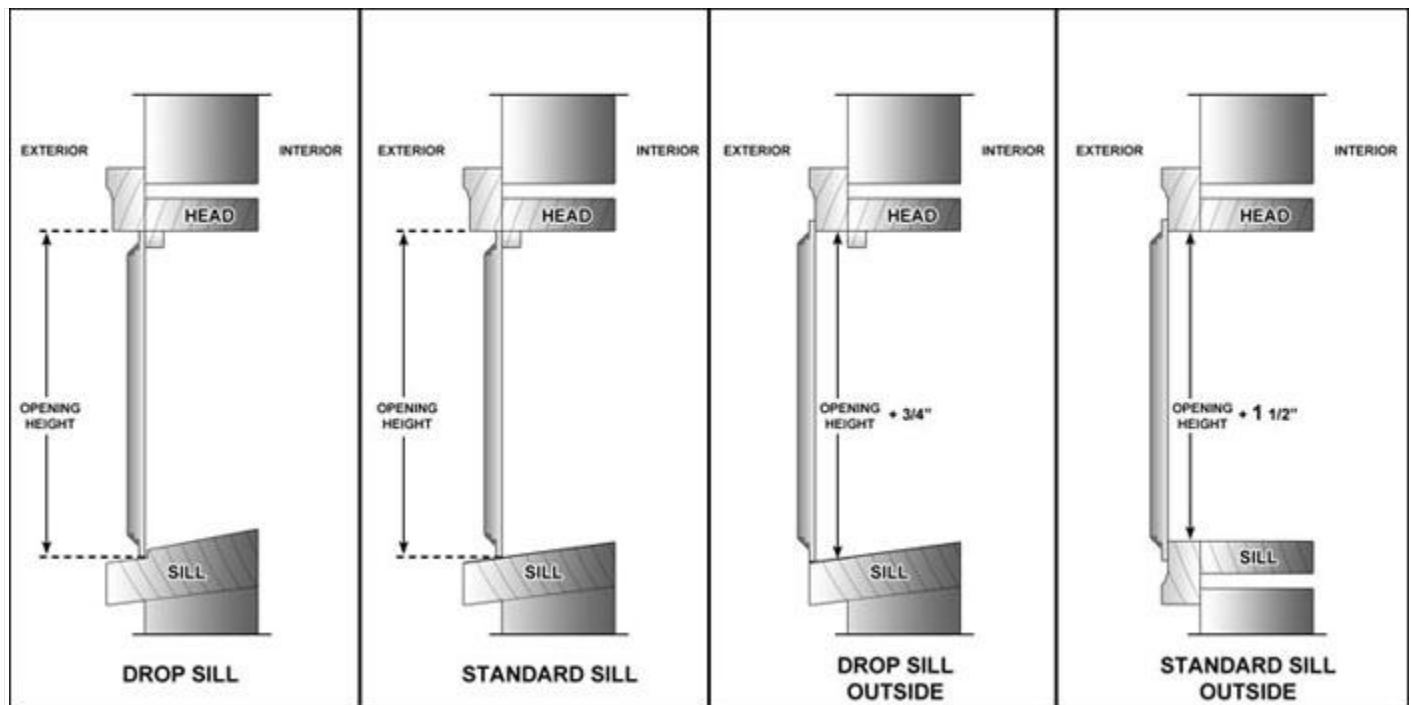
Step 1: Measure the width of the window and add one inch (1") to the width to account for the OVERLAP. Record this measurement for the WIDTH.



Step 2: Measure the height of the window on the left and right. There typically can be two different types of windowsills (at the bottom of the window) that can affect the height measurement: DROP SILL and STANDARD SILL.

- ❑ For a DROP SILL, make sure to measure to the bottom of the DROP.
- ❑ For a STANDARD SILL, you'll need to measure the height to the highest point on the sill that is in-line with the top HEAD stop.

-



Step 3: Measuring the Storm Window 'Meeting Rail'

When measuring for your Meeting Rail location, measure from the top of the storm window to the middle of where the two window panels meet.

Measuring for WINDOW TRACK installation:

Measuring for a Window Track installation of a Storm Window is identical to measuring for a FULL WINDOW Screen.

Step 1: Measuring the Storm Window 'Height'

First, check for a TOP TRACK at the top of the window. The TRACK will be a U-shaped channel that the screen will slide up into.























Proposed front entry door.



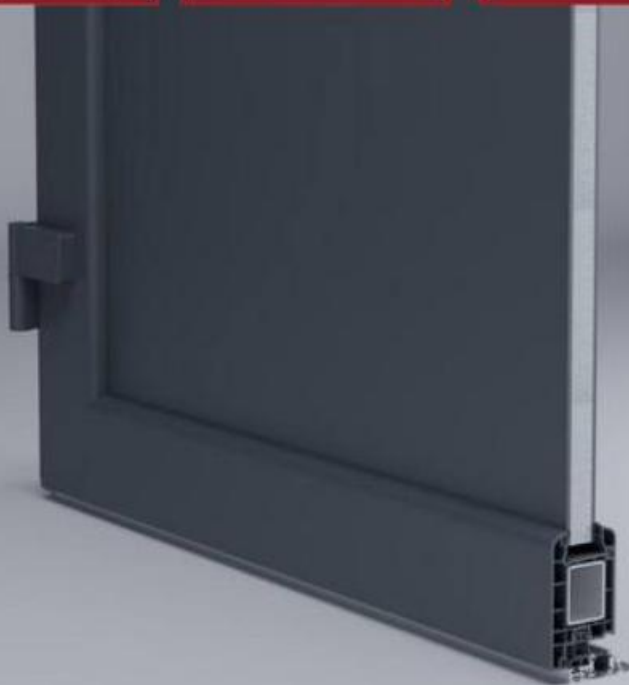


Roller
loops 160 kg
European
production
(3D adjustment,
aesthetic
appearance)

Climatic dropper
(casting on
the sash)



Metal
closed
reinforcement 2 mm
frame and sash,
and internal
angle amplifier



About This Product

Your front door is your best defender. It protects you, your family and your most valuable personal belongings from theft and damage. Furthermore, Doors insulate your home from extreme weather conditions, as well as unwanted animals, insects and dust from entering. Due to its versatility, metal-plastic entrance doors are perfect for both private houses and shops, offices and administrative buildings. Metal-plastic doors - lighter (around 120 lbs. for a door unit) than iron and steel doors, but no less strong and reliable. Scratch and impact resistance, easy of care and environmentally friendly. In principle, we use only all-welded reinforcement, 1/10 in. thick (.) for the entrance doors. Such reinforcement is a necessary condition for real burglary resistance. We use an aluminum threshold with a special thermal insert that cuts off the cold from the room. We also complete an amplifier to securely fix the bottom of the door and cut off the cold. Energy savings double-glazed safety windows. Stiffening Ribs: These non-visible details add to our door's security. Core - Metal-plastic. Door thickness - 2 3/4 in. Door slab width - 35 in. Swing direction - Inswing only - right or left. Hardware included: - Metal-plastic 2 3/4 in. thick frame - dimensions of the door with frame is 38 in. x 82 in. Aluminum threshold. European roller hinges (3D adjustment). Handle set with lock Vorne and cylinder (5 keys included). Sealants - 2 rows of seals protect against blowing.

Highlights

- Recommended opening: 64 1/2 in. x 82 1/2 in.
- Prehung: door comes pre-assembled with a frame, fully finished, ready to install, can't be customized
- Swing direction: only inswing doors are available, right-hand inswing direction means that you are staying outside of your house, and hinges are on right side of the door
- Door set: entire door with steel frame, lock, handle and hardware is included, full set you can see on the pictures and video
- Stiffening ribs: these non-visible details add to our door's security
- Quality insulation serves to reduce unwanted external noise, as well as protect against extreme heat and severe cold
- 1 1/4 in. thick HPL sandwich panel, consists of foamed extruded Styrofoam, with rigid PVC overlays high pressure on both sides
- We use an aluminum threshold with a special thermal insert that cuts off the cold from the room, we also complete with an amplifier to securely fix the bottom of the door and cut off the cold
- Principle, we use only all-welded reinforcement, 1/10 in. thick, for the entrance doors, such reinforcement is a necessary condition for real burglary resistance
- Metal-plastic doors - lighter (around 120 lbs. for a door unit) than iron and steel doors, but no less strong and reliable





External and internal finishing are made of metal with a weather-resistant coating



Anti-theft alarm frame and **thermal break**. Expanded polystyrene is going to insulate the gap!



Three-chamber double glazed window (thickness: 76 mm)



Two-line patching of the door frame and the lock



Two sections of hermetic sealing along the door and the frame.



Expanded polystyrene is used for door insulation



Anti-theft lock (30 mm) is going to prevent additional forcing from the door



Two-piece energy finger specially designed for double doors with structural adjustment function.



Fully German locking system and **Gasschutz cylinder mechanism** with thermal seal



The mechanical lock additionally locks the door in the closed position when the lock head is rotated



Modern fittings



Aluminum threshold resistant to corrosion and designed to serve

This technology makes it possible to protect the door from condensation.

THERMAL BREAK

This technology prevents the door from condensation.

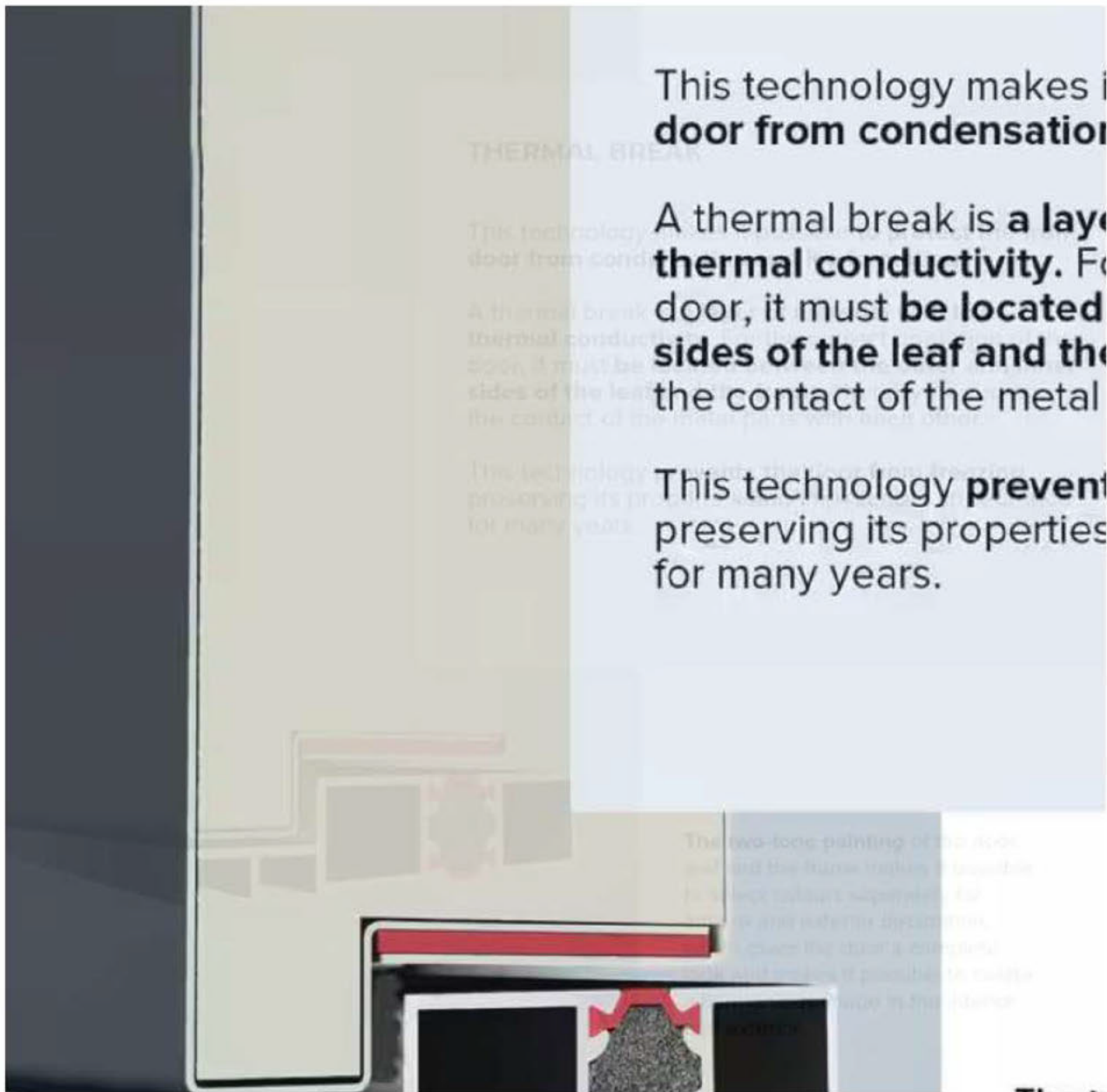
A thermal break is a layer of material with low thermal conductivity. For a door, it must be located on the sides of the leaf and the contact of the metal.

This technology prevents the door from losing its properties for many years.

A thermal break is a layer of material with low thermal conductivity. For a door, it must be located on the sides of the leaf and the contact of the metal.

This technology prevents the door from losing its properties for many years.

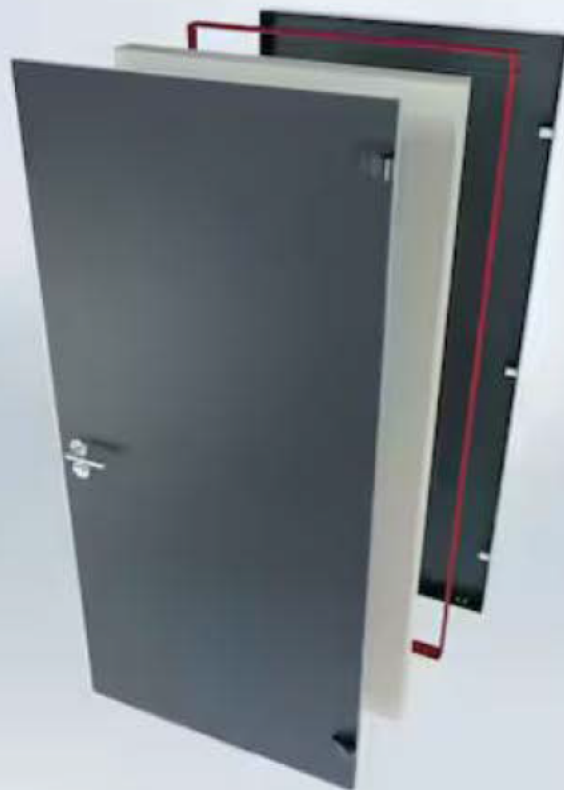
The two-tone painting of the door leaf and the frame makes it possible to keep the door safe from corrosion and water damage. The two-tone painting of the door leaf and the frame makes it possible to keep the door safe from corrosion and water damage.





The frame

All models of this collection are made **with a frame made of aluminum**. The **external framework and internal power framework** of the frame **do not touch** in any way, because they are interconnected by a **polyamide insert (thermal break) 18 mm thick**, which guarantees maximum thermal insulation performance.



The leaf

The door leaf of this series is made of two sheets of metal **1 mm thick**. A **reliable two-layer design with a thermal insulation layer** and expanded polystyrene filling **guarantees reliability, durability, and the best indicators of heat and noise insulation of the door**.

About This Product

Your front door is your best defender. It protects you, your family and your most valuable personal belongings from theft and damage. Furthermore, Doors insulate your home from extreme weather conditions, as well as unwanted animals, insects and dust from entering. Due to its versatility, metal-plastic entrance doors are perfect for both private houses and shops, offices and administrative buildings. Metal-plastic doors - lighter (around 120 lbs. for a door unit) than iron and steel doors, but no less strong and reliable. Scratch and impact resistance, easy of care and environmentally friendly. In principle, we use only all-welded reinforcement, 1/10 in. thick (.) for the entrance doors. Such reinforcement is a necessary condition for real burglary resistance. We use an aluminum threshold with a special thermal insert that cuts off the cold from the room. We also complete an amplifier to securely fix the bottom of the door and cut off the cold. Energy savings double-glazed safety windows. Stiffening Ribs: These non-visible details add to our door's security. Core - Metal-plastic. Door thickness - 2 3/4 in. Door slab width - 35 in. Swing direction - Inswing only - right or left. Hardware included: - Metal-plastic 2 3/4 in. thick frame - dimensions of the door with frame is 38 in. x 82 in. Aluminum threshold. European roller hinges (3D adjustment). Handle set with lock Vorne and cylinder (5 keys included). Sealants - 2 rows of seals protect against blowing.

Highlights

- Recommended opening: 64 1/2 in. x 82 1/2 in.
- Prehung: door comes pre-assembled with a frame, fully finished, ready to install, can't be customized
- Swing direction: only inswing doors are available, right-hand inswing direction means that you are staying outside of your house, and hinges are on right side of the door
- Door set: entire door with steel frame, lock, handle and hardware is included, full set you can see on the pictures and video
- Stiffening ribs: these non-visible details add to our door's security
- Quality insulation serves to reduce unwanted external noise, as well as protect against extreme heat and severe cold
- 1 1/4 in. thick HPL sandwich panel, consists of foamed extruded Styrofoam, with rigid PVC overlays high pressure on both sides
- We use an aluminum threshold with a special thermal insert that cuts off the cold from the room, we also complete with an amplifier to securely fix the bottom of the door and cut off the cold
- Principle, we use only all-welded reinforcement, 1/10 in. thick, for the entrance doors, such reinforcement is a necessary condition for real burglary resistance
- Metal-plastic doors - lighter (around 120 lbs. for a door unit) than iron and steel doors, but no less strong and reliable

1. Existing front entrance door needs to be replaced with new entrance door to match existing.





2. Existing side entrance door needs to be replaced with new entrance door to match existing. Color preference black..



3. The existing chimneys are damaged, leaning, and falling apart, which is also putting additional weight on the roof. This causes leaks whenever it rains, resulting in damage to the lower areas of the building. Renovating all five chimneys is proving to be costly.

















4. The existing windows are not energy-efficient, and several glass panes and frames are damaged, allowing cold air to enter the building. These windows should be repaired or replaced with new energy-efficient ones that match the current design.

















5. Repair to existing roof.









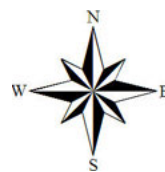


77 Maple Street GIS Map

7/1/2026 12:10:16 PM

Scale: 1"=125'

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.

082180026
82 MAPLE STREET REALTY
82 MAPLE ST
SPRINGFIELD, MA 01105

082180022
ARCOLEO REALTY LLC
146 FEDERAL ST
GREENFIELD, MA 01301

082180024
BEACH ZACHARY TR
11 APEX DR STE 300A
MARLBOROUGH, MA 01752

082180184
CAMPAGNARI
128 FEDERAL ST
SPRINGFIELD, MA 01105

117500057
CAMPAGNARI
128 FEDERAL ST
SPRINGFIELD, MA 01105

082180027
GOODMAN GLEN D TRUSTEE
84 MAPLE ST
SPRINGFIELD, MA 01105

082180189
MAPLE PROPERTIES LIMITED
619 STATE ST
SPRINGFIELD, MA 01109

082180023
SANCHEZ UMIGEL R
75 BLAISDELL ST
HAVERHILL, MA 01832

082180025
SHULTIS STEVEN T &
80 MAPLE STREET
SPRINGFIELD, MA 01105

082180187
WANG XIAOMAO & QIAN
2334 W MAYA WAY
PHOENIX, AZ 85085



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 187-6524 (fax)

APPLICATION CHECKLIST

PROPERTY ADDRESS: 117 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>June 22, 2026</i>	DECISION DATE:
HEARING DATE: <i>July 16, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>July 2, 2026</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>July 2, 2026</i>	WAIVED BY ABUTTERS:



Springfield Historical Commission



70 Tapley Street
Springfield, MA 01104
(413) 787-6020 (office)
(413) 787-4524 (fax)

APPLICATION TYPE

PROPERTY ADDRESS: 117 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: 117 Florida St, Springfield, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Iris Garcia		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: [REDACTED]	REPRESENTATIVE/CONTRACTOR NAME: EMPWR SOLAR LLC	
OWNER EMAIL ADDRESS: [REDACTED]	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: [REDACTED]	
PROPERTY CODE: RESIDENTIAL 0522P-0064	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: [REDACTED]	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): 5.330 KW DC & 4.940 KW AC GRID TIED PHOTOVOLTAIC SYSTEM (For Building Permit BOTH-26-281)		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.

Signed by:

Iris Garcia

PCDES0P5712A4F1...

PROPERTY OWNER'S SIGNATURE

6/22/2026

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 INFOMRATION:		

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:	13
SOLAR MANUFACTURER:	QCELLS
LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):	EAST SIDE ROOF
LOCATION OF MAIN SERVICE PANEL & METER (e.g. rear of building):	BEHIND THE FENCE (NOT VISIBLE)
LOCATION OF OTHER ELECTRICAL COMPONENTS (e.g. rear of building):	BEHIND THE FENCE (NOT VISIBLE)
LOCATION OF CONDUIT (e.g. side of building, inside the house):	BEHIND THE FENCE (NOT VISIBLE)
PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):	SAME AS HOUSE



County Board Meeting Acknowledgement for Your Solar Project

This document is provided to you as a customer of EMPWR Solar, LLC to confirm your acknowledgment of the following:

Certain Authorities Having Jurisdiction (AHJs), districts, and/or specific project types may require a county board meeting as part of the project approval process. During this meeting, your solar project may be reviewed, evaluated, and considered for approval.

By signing below, you acknowledge and understand that you may be required to attend a county board meeting in order to obtain approval from the applicable AHJ for your solar project.

Please note that, if a representative is available to attend on your behalf, EMPWR Solar, LLC will make every reasonable effort to have a representative attend as the first option.

For the sake of this meeting, Miss Evelyn Martinez will be attending on your behalf.

The specific details pertaining to your jurisdiction and project will be provided and discussed with you during our permitting phase.

If you have any questions, please do not hesitate to contact us.

Thank you for being a valued EMPWR Solar customer!

Customer Name: Iris Garcia

Signature: *Iris Garcia*

Date: 07/14/2026

Iris Garcia

117 Florida St, Springfield, MA 01109, USA
Solar - Roof Mount

Homeowner & Project Information

Homeowner Name	Iris Garcia	Project Scope	Solar - Roof Mount
Homeowner Address	117 Florida St, Springfield, MA 01109, USA	Project Scope Notes	MA: Photos and notes/information on where the utility power is connecting to the house. Notate whether it is underground or overhead electrical lines and where it enters the house - Please gather full electrical, along with roof dimensions, obstructions, azimuth + attic dimensions. - If multiple meters & MSPs (multi-family dwelling): Circle/identify which MSP and which meter are interconnecting to. Identify both meter and MSP location in aerial picture. - If flat roof or metal roof: Acoustic test, stud finder, removing can light for rafter size. - If proposal design reflects any panels on a porch: obtain the following: 1) Size of the posts (dimensions) and the measurement between the posts that are holding up the roof 2) Size of the posts (dimensions) and measurements between the posts supporting the porch itself (the foundation) 3) Pictures of ceiling, posts and foundation up close and from a short distance 4) Any information regarding how the foundation is secured to the posts 5) Roof structure pics and dimensions of porch roof (this one can be skipped IF the roof structure can be assumed to be the same as the home)
Homeowner Questions	NONE	IMGING Drone Flight	No

Exterior Evaluation

Gas Meter Distance	Over 20 ft	Mobile / Manufactured Home (Y/N)	No
Generator (Y/N)	No		

Electrical Evaluation

Utility Meter Location	Outside	Incoming Service Feed	Underground
Meter/Main Combo	Standalone Meter	Utility Meter / Main Panel Damage or Red Flags	None of These Apply
MSP Obstructions	No	Other Enclosures / Disconnects / Electrical Panels	Yes
Service Type			

Subpanel or Other Electrical Equipment

Select Type	Subpanel Obstructions	Equipment Damage or Red Flags
-------------	-----------------------	-------------------------------

Sub Panel

Yes

Other (Leave Comment)
The rating sticker is covered by wires, can't get it's images. This is HO's sub panel.

Structural Evaluation

Attic & Structural

Select Structure Type	Attic Access (Y/N)	Purlins (Y/N)	Structural Damage	Attic / Structural Damage
House	Yes		No	

Roof Evaluation

Ground Mount? (Y/N)

No

Septic Tank

Ground Mount Obstructions

Roof Evaluation

Select Roof Type	Flat Roof Sections	Pitched Roof Sections	Age of Roof	Roof Damage	Existing Solar Equipment Accessibility	Contact Enphase / SolarEdge	Microinverters / Optimizers (Y/N)
Other Roof Type	No	Yes		None of the above			

Battery

New Battery (Y/N)?

No

Existing Battery (Y/N)

No

Whole Home vs. Partial Home Backup

Trenching

Trenching Info Instructions

The question below, "Trenching Required?" should be answered "Yes" if any of the following criteria are true:

1.) There will be modules installed on two separate structures (i.e., home and barn)

2.) The proposed system is a ground-mount

Trenching Required?

No

Ground Trench Material

Underground Lines / Utilities

Site Map

SITE MAP INSTRUCTIONS

Final Notes

Mark up an image of an overhead view of the home. This can be done on the included proposal, a Google Earth Screenshot, Hand Drawn with Graph paper, or using a drone aerial photo.

If hand drawn, shape of home should resemble a Google Earth screenshot, rather than just a rectangle.

- (1) Name and label each structure
- (2) Roof measurements for each structure that will have panels installed (Perimeter of specified roof plane(s), Distances of obstructions to boundaries)
- (3) Underground lines/piping (communication, water, gas, sewer, septic, sprinkler, or electrical -- if homeowner knows)
- (4) Utility meter location (UM)
- (5) Main service panel location (MSP)
- (6) MSD Location (if applicable)
- (7) Water main location and distance to MSP or MSD
- (8) Gas meter
- (9) Rafter Orientation on all proposed solar install roof locations

- (9) (If applicable) Trench Route
- (10) (If applicable) Ground Mount Location
- (11) (If applicable) Existing battery location
- (12) (If applicable) Existing generator location(s)
- (13) (If applicable) Existing generator ATS location
- (19) (If applicable) Septic tank location

requires a 28ft+ ladder

Panels 1 are of HO and the utility meter for which close up images have been provided is of the HO.

HO was not okay with removing slate.

Drone not working properly so can't do IMGING





Loc: 42.114, -72.5744



Loc: 42.114, -72.5744



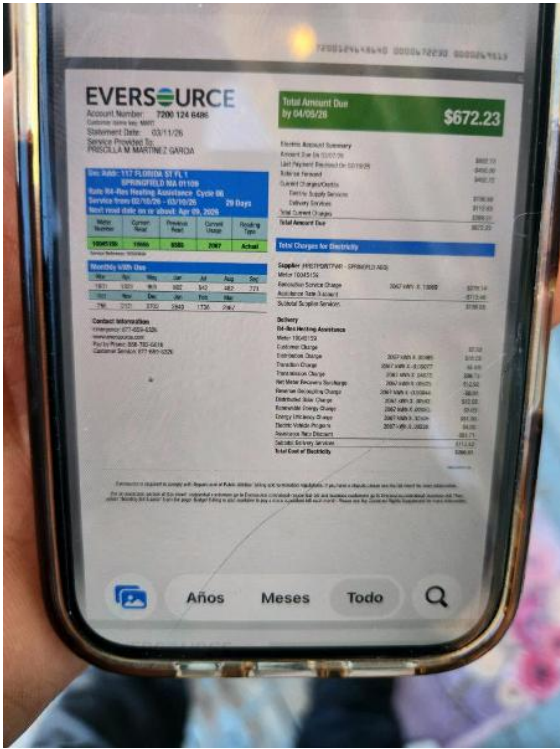
Loc: 42.114, -72.5744

Exterior Evaluation / Address Photo



Loc: 42.114, -72.5744

Exterior Evaluation / Address Photo



Loc: 42.114, -72.5744

Exterior Evaluation / Address Photo



Loc: 42.114, -72.5744

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Gas Meter



Loc: 42.114, -72.5746

Exterior Evaluation / Gas Meter



Loc: 42.114, -72.5746

Exterior Evaluation / Gas Meter



Loc: 42.114, -72.5746

Exterior Evaluation / Gas Meter



Loc: 42.114, -72.5746

Electrical Evaluation / Utility Meter



Loc: 42.1139, -72.5742

Electrical Evaluation / Utility Meter



Loc: 42.1139, -72.5742

Electrical Evaluation / Utility Meter



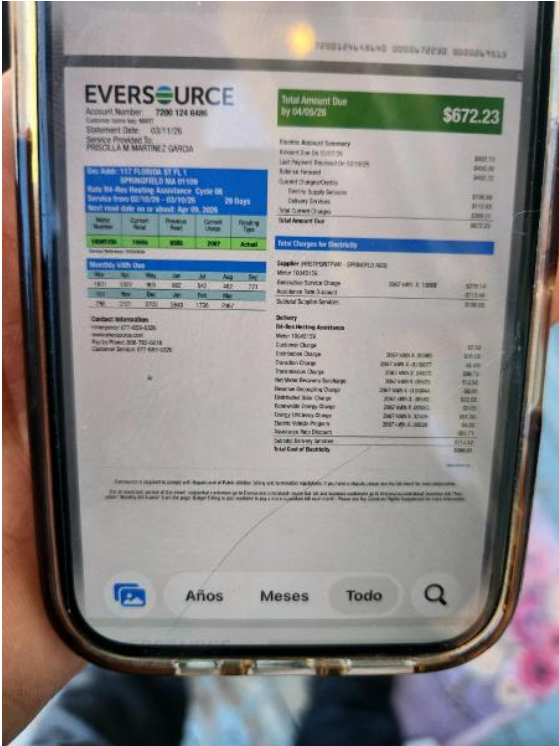
Loc: 42.1139, -72.5742

Electrical Evaluation / Utility Meter



Loc: 42.1139, -72.5742

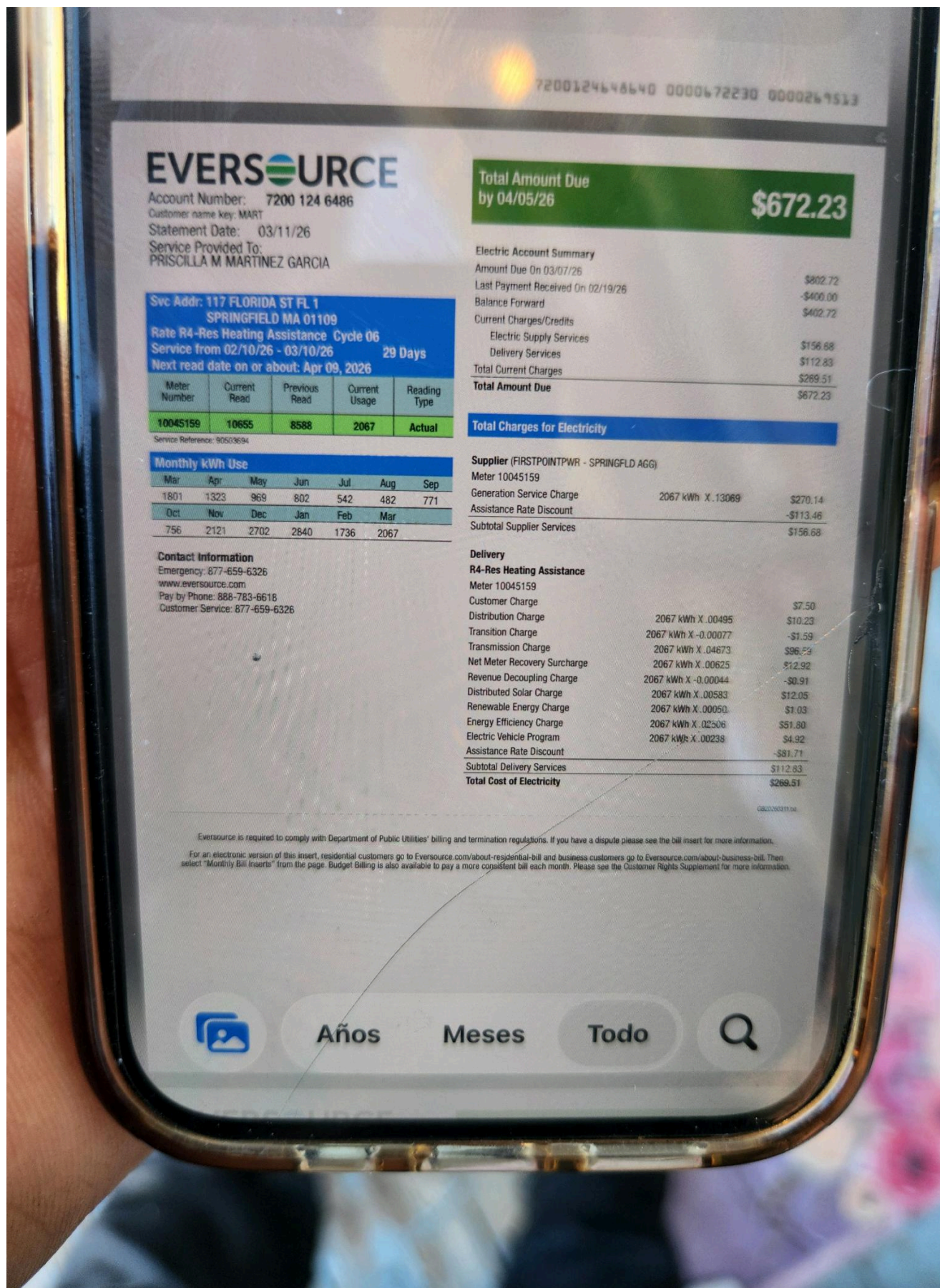
Electrical Evaluation / Utility Meter



Loc: 42.1139, -72.5744



Loc: 42.1139, -72.5744



Loc: 42.114, -72.5744



Loc: 42.114, -72.5744



Loc: 42.114, -72.5744

Electrical Evaluation / Meter Surroundings



Loc: 42.1139, -72.5743

Electrical Evaluation / Meter Surroundings



Loc: 42.1139, -72.5743

Electrical Evaluation / Meter Surroundings



Loc: 42.1139, -72.5743

Electrical Evaluation / Meter/Main Combo



Loc: 42.114, -72.5747

Electrical Evaluation / Meter/Main Combo



Loc: 42.114, -72.5747

Electrical Evaluation / Meter/Main Combo



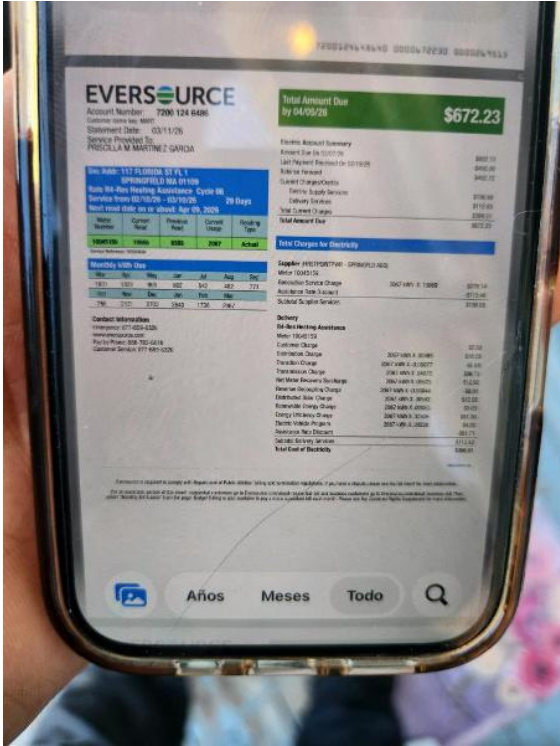
Loc: 42.114, -72.5747

Electrical Evaluation / Meter/Main Combo



Loc: 42.114, -72.5747

Electrical Evaluation / Meter/Main Combo



Loc: 42.114, -72.5744

Electrical Evaluation / Meter/Main Combo



Loc: 42.114, -72.5744

Electrical Evaluation / Distance From Meter to MSP



Loc: 42.114, -72.5745

Electrical Evaluation / Distance From Meter to MSP



Loc: 42.114, -72.5745

Electrical Evaluation / Distance From Meter to MSP



Loc: 42.114, -72.5745



Date: 5/21/2026

To: [Jurisdiction Name / Building Department / AHJ Contact]

Address: 117 Florida St, Springfield, MA 01109

RE: Response to Plan Review Comments – [Project Address / Permit Number]

Dear Plan Reviewers,

On behalf of EMPWR Solar and in response to the plan review comments issued on 5/21/2026, please find the following responses and accompanying revised documents for the above-referenced project. We appreciate your review and the opportunity to address each comment in detail below.

Response Summary

Comment No.	Revision Comment	Engineer Response	Sheet Reference
Rev1	- Please revise plans to match with the proposal layout. Please see attached proposal layout in NEW FILES folder at PLANS-PERMITS Subfolder - Please update the legend and callouts and reflect all the existing equipment in plans. - The current roof material is Slate which is considered as DQ and will have a reroof to Metal. Please change the Roof Material to Metal Roof with S5 protea bracket attachment. Please reflect the correct illustration in Structural page.	New layout reflected. Updated legend. Metal roof updated. Structural page fixed.	PV.02, PV.03, PV.04, PV.06, PVBOM
Rev1	- Please align the panels in the roof plane just like the proposal since it was slightly tilted from the initial plans - Please reflect 3 utility meters in SLD. Please change the POI to line side tap at (E)MBE (OWNER). Please see attached reference of the (E)MBE in NEW FILES folder at PLANS-PERMITS Subfolder - Please reflect the meter number for this project (10045157)	Layout fixed, 3 utility meter fixed. Interconnection changed. Meter number fixed.	PV.02, PV.03, PV.06
Rev1	- Please reflect the correct north arrow orientation in the diagram of the signage and placard page - Please update BOM	Azimuth fixed, BOM added.	PV.02,PVBOM

The following items have been included with this response package:

- ☐ Revised plan set dated 5/21/2026
- ☐ Structural calculations (if applicable)
- ☐ Product specification sheets

We trust these revisions and responses address all outstanding review items. Should you require any additional information or clarification, please do not hesitate to contact us. Thank you for your time and continued collaboration.

Sincerely,

A black rectangular redaction box covering the signature of the sender.



Date: 5/23/2026

To: City of Springfield, MA

Address: 117 Florida St, Springfield, MA 01109

RE: Response to Plan Review Comments – 117 Florida St, Springfield, MA 01109

Dear Plan Reviewers,

On behalf of EMPWR Solar and in response to the plan review comments issued on 5/23/2026, please find the following responses and accompanying revised documents for the above-referenced project. We appreciate your review and the opportunity to address each comment in detail below.

Response Summary

Comment No.	Revision Comment	Engineer Response	Sheet Reference
1	Please reflect Main Service Disconnect, the one with 50A Breaker not Main Service panel in SLD. Please see attached reference in NEW FILES folder at PLANS-PERMITs Subfolder.	Reflected Main Service Disconnect in SLD.	PV05
2	Please reflect the correct MCB rating of the MSP in SLD. which is based from the survey photo.	Reflected correct MCB rating of MSP in SLD.	PV05
3	Please revise the equipment location. Please see attached reference in NEW FILES folder at PLANS-PERMITs Subfolder.	Updated equipment location in plan.	PV02 PV03 PV06

The following items have been included with this response package:

- ☐ Revised plan set dated 5/23/2026
- ☐ Structural calculations (if applicable)
- ☐ Product specification sheets

We trust these revisions and responses address all outstanding review items. Should you require any additional information or clarification, please do not hesitate to contact us. Thank you for your time and continued collaboration.

Sincerely,

Support@creng.solar

Tel: (951) 216-3196

GENERAL NOTES

1. NOTIFY LOCAL UTILITY PROVIDER BEFORE ACTIVATION OF ANY PV INSTALLATION.
2. THIS PROJECT SHALL COMPLY WITH LOCAL ORDINANCES.
3. PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED.
4. ELECTRICAL WORK SHOWN ON PLANS WILL BE COMPLETED BY UNDERSIGNED.
5. PV EQUIPMENT COMPLIES WITH UL2703, UL1741, AND UL1703.
6. SEAL ROOF PENETRATIONS WITH PROPERLY RATED SEALANT (E.G., CHEM LINK M-1, GEOCEL 2300 OR EQUIVALENT).
7. THE SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM JURISDICTION AND UTILITY.
8. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY ROOF VENTS.
9. INSTALL SUPPLEMENTAL GROUNDING ELECTRODE IF MAIN PANEL LACKS GROUNDING.
10. GROUND EACH MODULE USING UL2703 OR UL1703 APPROVED CONNECTIONS.
11. MAX HEIGHT OF MODULES OFF OF ROOF FACE : <6".
12. INVERTER IS UNGROUNDED PER 690.35.
13. MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
14. INVERTER CONFORM TO AND IS LISTED UNDER UL 1741.
15. EQUIPMENT TO BE LISTED, LABELED, AND INSTALLED PER NEC AND MANUFACTURER'S INSTRUCTIONS.
16. CONDUITS EXPOSED TO SUNLIGHT ON ROOF MUST BE LESS THAN 7/8" ABOVE ROOF.
17. USE CONDUIT FOR EXPOSED WIRING OR CABLE RATED FOR EXPOSURE; TYPE NM CABLE ALLOWED IN PROTECTED LOCATIONS.

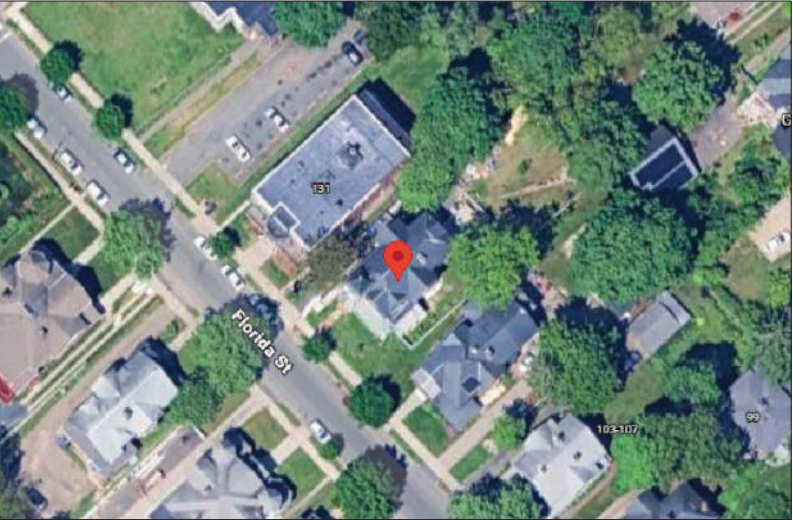
ROOF MOUNT SOLAR PERMIT PACKAGE

IRIS GARCIA

117 FLORIDA ST, SPRINGFIELD, MA 01109

5.330 KW DC & 4.940 KW AC GRID TIED PHOTOVOLTAIC SYSTEM

AERIAL PHOTO



SHEET INDEX

PV01	COVER SHEET
PV02	SITE PLAN
PV03	STRING & FIRE SAFETY
PV04	STRUCTURAL
PV05	ELECTRICAL SLD
PV06	SIGNAGE & PLACARD
PVBOM	BILL OF MATERIALS
SS01-SS08	SPECIFICATION SHEETS

PROJECT INFORMATION

DESIGN SPECIFICATIONS

OCCUPANCY:	R-3/U
CONSTRUCTION:	V-B
ZONING:	RESIDENTIAL
SNOW LOAD:	35 PSF
WIND EXPOSURE:	C
WIND SPEED:	115 MPH
ROOF SURFACE:	2815.7 SQ. FT.
PV COVERAGE:	274.57 SQ. FT.
OF STORIES:	THREE
FIRE SPRINKLERS:	NO

ALL WORK SHALL COMPLY WITH APPLICABLE, LOCAL, MUNICIPAL CODES, AND TO MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.

CODE INFORMATION

TENTH EDITION 780 CMR (MASSACHUSETTS STATE BUILDING CODE)
2024 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL ENERGY CODE
2021 INTERNATIONAL RESIDENTIAL CODE
2020 NATIONAL ELECTRICAL CODE (NEC) WITH MASSACHUSETTS AMENDMENTS
ANY SPRINGFIELD CITY MUNICIPAL CODES & AMENDMENTS

SCOPE OF WORK

INSTALLATION OF NEW PV SYSTEM

5.330 KW DC (STC-DC)
4.940 KW AC (INVERTER)

SYSTEM COMPONENTS

MODULE:	(13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
OPINVERTER:	(13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT:	(38) S5! PROTEABRACKET
RAILING:	IRONRIDGE XR10
MSP UPGRADE:	NO



Exp: 6/30/2026

STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US

MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

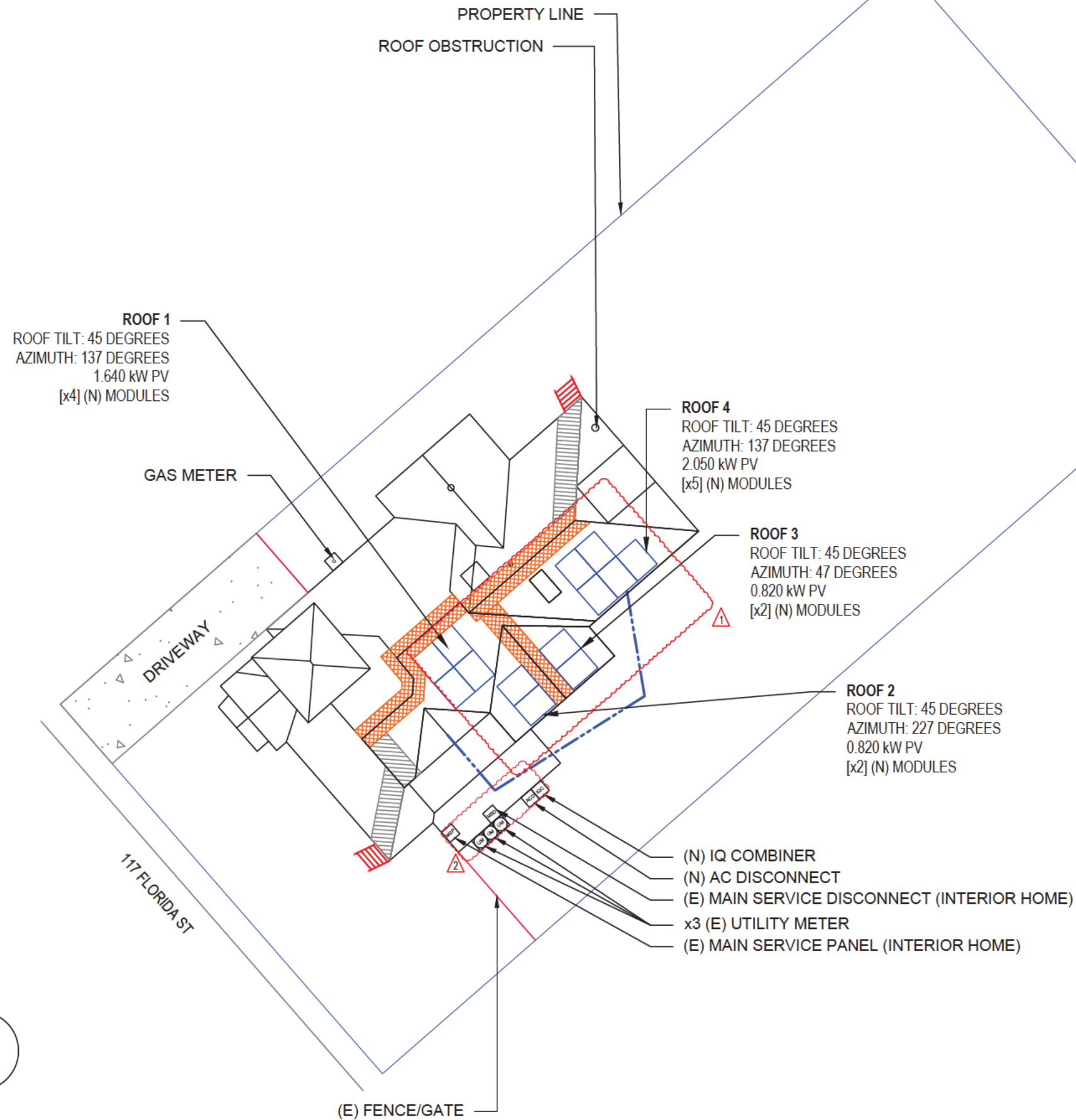
REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
COVER SHEET	PV01

SITE PLAN

SCALE: 1/16" = 1'



STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR

1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL: info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) SSI PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SITE PLAN	PV02

LEGEND

PROPOSED CONDUIT

PROPOSED STRINGING

MODULE

ROOF OBSTRUCTIONS

36" ACCESS PATHWAYS

18" ACCESS PATHWAYS

ROOF ACCESS POINT

UTILITY METER

MAIN SERVICE PANEL

AC DISCONNECT

JUNCTION BOX

IQ COMBINER

GAS METER

MAIN SERVICE DISCONNECT

The diagram illustrates a roof layout for solar panel installation. It shows the placement of modules, junction boxes (JB), and electrical components like the main service panel (MSP), main service disconnect (MSD), AC disconnect (ACD), and IQ combiner (IQC). The layout also indicates roof obstructions, access pathways (36" and 18"), and roof access points. A red dashed line outlines the PV coverage area. A north arrow is located in the bottom left corner.

STRING & FIRE SAFETY

SCALE: 1/8" = 1'

ROOF AREA PV COVERAGE

ROOF SURFACE: 2815.7 SQ. FT.
PV COVERAGE: 274.57 SQ. FT.
ROOF AREA COVERED: 9.75%

NOTES:

- MINOR FIELD ADJUSTMENTS ALLOWED BASED ON ACTUAL SITE CONDITION AND MEASUREMENTS.
- THE 30 SECOND SHUTDOWN REQUIREMENT IS INCORPORATED INTO THE 2020 NEC AND UL STANDARD 1741.
- EXISTING ROOF VENT SHOULD NOT BE COVERED.

COMMONWEALTH OF MASSACHUSETTS

METHODE MANIRAGUHA

ELECTRICAL

NO. 53873

REGISTERED

PROFESSIONAL ENGINEER

Exp: 6/30/2026

STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.

Current Renewables Engineering

CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO

EMPWR SOLAR

EMPWR SOLAR

1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US

MOUNT: (38) SSI PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
STRING & FIRE SAFETY	PV03

STRUCTURAL NOTES

ROOF INFORMATION

1. ROOF MATERIAL:
- METAL
2. ROOF SLOPE:
- 45 DEGREES
3. RAFTER SIZE:
- 2X8 IN.
4. RAFTER SPACING:
- 20" O.C.
- 4.1 METAL RIB SPACING:
- 9" O.C.

MODULE INFORMATION

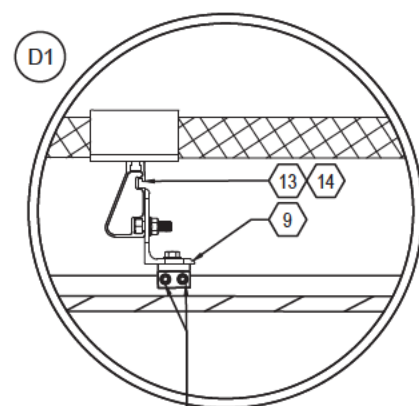
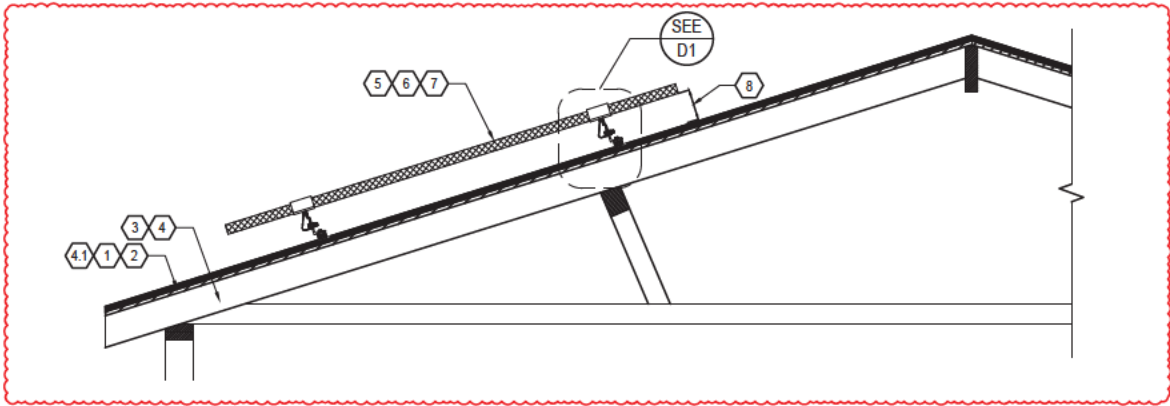
5. PV MODULE: QCELLS
- Q.PEAK DUO BLK ML-G10.C+ 410
6. DIMENSION: 74" H X 41.1" W X 1.3" D
7. WEIGHT 48.5 LBS
8. MODULE CLEARANCE: 3IN. MIN / 6 IN. MAX

ATTACHMENT & RAILING

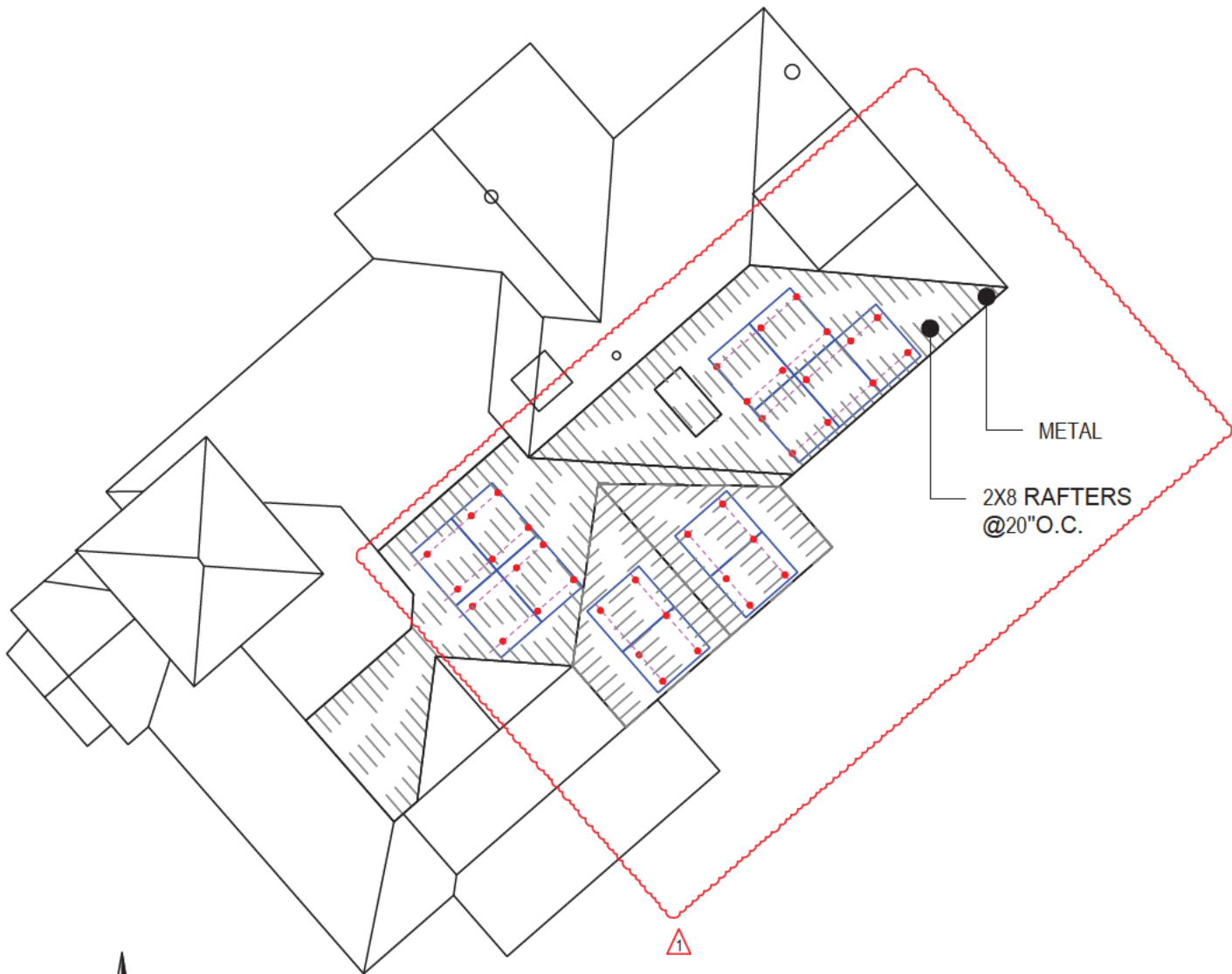
9. ATTACHMENT:
- (38) S5! PROTEABRACKET
10. MAX. HORIZONTAL STANDOFF:
- 45 IN.
11. STANDOFF STAGGERING:
- YES
12. MAX. VERTICAL STANDOFF:
- PER INSTALLATION INSTRUCTIONS
13. RAILING:
- IRONRIDGE XR10
- 14 MAX RAIL CANTILEVER:
- PER INSTALLATION INSTRUCTIONS
15. LAG BOLT SIZE:
- SEE D1 FOR DETAILS
16. LAG BOLT EMBEDMENT:
- SEE D1 FOR DETAILS

LOAD CALCULATIONS

- APPROX. INSTALLATION AREA:
- 274.57 SQ. FT.
- TOTAL SYSTEM WEIGHT:
- 691.60 LBS.
- DISTRIBUTED WEIGHT OF ARRAY:
- 2.52 PSF.
- WEIGHT PER MOUNT:
- 18.20 LBS



1/4-14 SELF TAPPING SCREW
1-1/2" L X 3/8" DIA. HEX HEAD



STRUCTURAL
SCALE: NTS



Exp: 6/30/2026

STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR

1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
STRUCTURAL	PV04

PV SYSTEM ELECTRICAL SPECIFICATIONS AND CALCULATIONS

SYSTEM SUMMARY

SYSTEM SIZE (STC-DC): 5.330 kW
INVERTER RATED POWER (AC): 4.94 kW
MAX PV CURRENT (125%): 25.68A

OVERCURRENT CALCULATION

COMBINED INVERTER OUTPUT: 20.54A
MAX PV CURRENT (125%): 25.68A

MODULE SPECS

(13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410	
RATED POWER (P _{MAX}) (W)	410W
RATED POWER (P _{TC}) (W)	381W
SHORT CIRCUIT CURRENT (I _{SC}) (A)	11.2A
MAXIMUM POWER CURRENT (I _{MP}) (A)	10.89A
OPEN CIRCUIT VOLTAGE (V _{OC}) (V)	45.37V
MAXIMUM POWER VOLATGE (V _{MP}) (V)	37.64V
TEMP. COEFF. OF V _{OC} (%/C)	-0.27 %/C

MICROINVERTER SPECS

(13) ENPHASE IQ8HC-72-M-DOM-US [240V]	
RATED POWER (W)	380W
MAX INPUT (A)	20A
MAX INPUT (V)	60V
MAX OUTPUT (A)	1.58A
MAX OUTPUT 125% (A)	1.98A
MAX OCPD (A)	20A
EFFICIENCY (CEC)	0.97

MAX. BRANCH CALC

MAX OCPD (A) / (MAX OUTPUT X 1.25)
20A / 1.98A = 10 MODS PER BRANCH

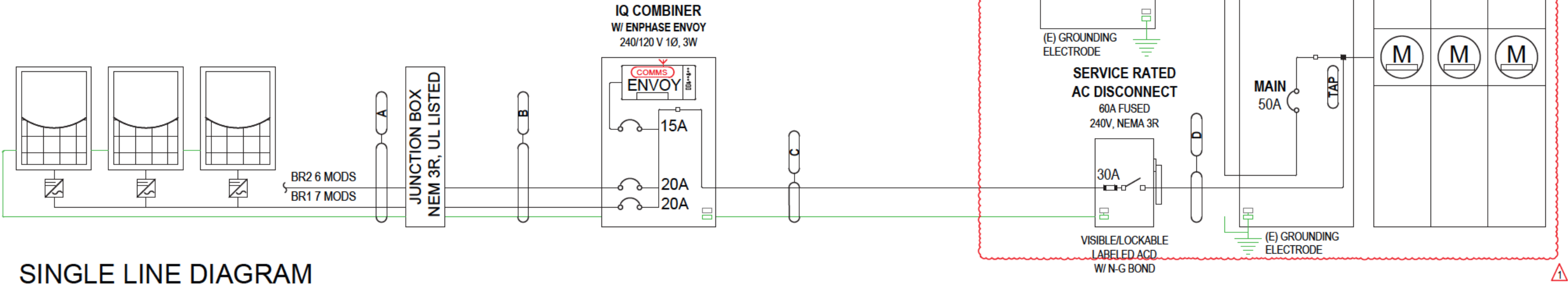
MICROINVERTERS PROVIDE MODULE-LEVEL
RAPID SHUTDOWN & ARE NEC 690.12 COMPLIANT.

ELECTRICAL NOTES:

- CONDUCTORS EXPOSED TO SUNLIGHT SHALL BE LISTED AS SUNLIGHT RESISTANT PER SECTION 310.10(D).
- CONDUCTORS EXPOSED TO WET LOCATIONS SHALL BE SUITABLE FOR USE IN WET LOCATIONS PER SECTION 310.10(C).
- ALL EXTERIOR CONDUIT, FITTINGS, AND BOXES SHALL BE WATERTIGHT AND APPROVED FOR USE IN WET LOCATIONS. (SECTION 314.15A).
- ALL WIRE TERMINATIONS SHALL BE APPROPRIATELY LABELED AND READILY VISIBLE.
- CONDUCTORS ARE SIZED PER SECTION TABLE 310.15(B)(16).
- WORKING CLEARANCES AROUND ALL NEW AND EXISTING ELECTRICAL EQUIPMENT SHALL COMPLY WITH SECTION 110.26.
- ALL CONDUCTORS NOT UNDER ARRAY ARE TO BE IN CONDUIT MINIMUM 7/8" ABOVE FROM ROOF SURFACE.
- BACK-FED BREAKER MUST BE AT THE OPPOSITE END OF BUS BAR FROM THE MAIN BREAKER OR MAIN LUG SUPPLYING CURRENT FROM THE UTILITIES.

CONDUIT AND WIRE SCHEDULE

ID	CONDUCTOR	GROUND	CONDUIT	CURRENT CARRYING CONDUCTORS IN CONDUIT	CONT. CURRENT	125% MAX. CURRENT	MIN. OCPD	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	BASE AMP. @ 90°C	DERATED 90°C AMP.	TERMINAL TEMP. RATING	TERMINAL AMP RATING
A	12 AWG PV WIRE, CU	6 AWG BARE, Cu	FREE AIR	N/A	20A PER BRANCH	N/A	N/A	0.94 (32°C)	1	55A	37.60A	75°C	40A
B	10 AWG THWN-2, Cu	8 AWG, THWN-2, Cu	0.75" EMT OR EQUIV	4 (2 PER BRANCH)	20A PER BRANCH	N/A	N/A	0.94 (32°C)	0.8	40A	30.08A	75°C	35A
C	10 AWG THWN-2, Cu	8 AWG, THWN-2, Cu	0.75" EMT	3	20.54A	25.68A	30A	0.94 (32°C)	1	40A	37.60A	75°C	35A
D	6 AWG THWN-2, Cu	8 AWG, THWN-2, Cu	0.75" EMT	3	20.54A	25.68A	N/A	0.94 (32°C)	1	75A	70.50A	75°C	65A



SINGLE LINE DIAGRAM



Exp: 6/30/2026

STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) SSI PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
ELECTRICAL SLD	PV05

! WARNING

ELECTRIC SHOCK HAZARD

TERMINALS ON BOTH LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION

CODE REFERENCE: NEC 690.13(B)
LOCATION: PLACE ON ALL DISCONNECTING MEANS WHERE ENERGIZED IN AN OPEN POSITION

! WARNING

POWER SOURCE OUTPUT CONNECTION. DO NOT RELOCATE THIS OVERCURRENT DEVICE

CODE REFERENCE: NEC 705.12(B)(2)
LOCATION: AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL AND SUB PANEL IF APPLICABLE)

! WARNING

THIS EQUIPMENT FED BY MULTIPLE SOURCES: TOTAL RATING OF ALL OVERCURRENT DEVICES, EXCLUDING MAIN SUPPLY OVERCURRENT DEVICE, SHALL NOT EXCEED AMPACITY OF BUSBAR

CODE REFERENCE: NEC 705.12(B)(3)
LOCATION: AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL AND SUB PANEL IF APPLICABLE)

! WARNING

DUAL POWER SOURCE
SECOND SOURCE IS PHOTOVOLTAIC SYSTEM

CODE REFERENCE: NEC 705.10
LOCATION: ALL EQUIPMENT CONTAINING OVERCURRENT DEVICES IN CIRCUITS SUPPLYING POWER TO A BUSBAR OR CONDUCTORS SUPPLIED FROM MULTIPLE SOURCES

PHOTOVOLTAIC POWER SOURCE

CODE REFERENCE: NEC 690.31(D)(2)
LOCATION: AT EXPOSED RACEWAYS, CABLE TRAYS, AND OTHER WIRING METHODS; SPACED A MAX. 10 FT SECTIONS OR WHERE SEPARATED BY ENCLOSURES, WALLS, PARTITIONS, CEILINGS, OR FLOORS.

FORMAT
1. WHITE LETTERING ON A RED BACKGROUND
2. MINIMUM 3/8 INCHES LETTER HEIGHT
3. ALL LETTERS SHALL BE CAPITALIZED
4. ARIAL OR SIMILAR FONT (NON-BOLD)

MATERIAL
REFLECTIVE, WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (USE UL-969 AS STANDARD FOR WEATHER RATING). DURABLE ADHESIVE MATERIALS.

AC DISCONNECT
AC PHOTOVOLTAIC POWER SOURCE

MAX AC OPERATING CURRENT: 20.54A MAX
AC OPERATING VOLTAGE: 240 VAC

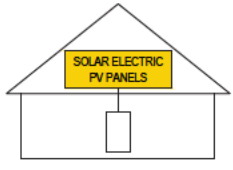
LOCATION: AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT (I.E. MAIN PANEL AND SUB PANEL IF APPLICABLE)

PHOTOVOLTAIC
AC DISCONNECT

CODE REFERENCE: NEC 690.13(B)
LOCATION: AT P.O.C. TO SERVICE DISTRIBUTION EQUIPMENT / AC DISCONNECTS / BREAKERS

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 THE ARRAY



CODE REFERENCE: NEC 690.56
LOCATION: SIGN TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM SERVICE DISCONNECTING MEANS TO WHICH THE PV SYSTEMS ARE CONNECTED AND SHALL INDICATE THE LOCATION OF ALL IDENTIFIED RAPID SHUTDOWN SWITCHES IF NOT AT THE SAME LOCATION.

RAPID SHUTDOWN SWITCH FOR SOLAR PV SYSTEM

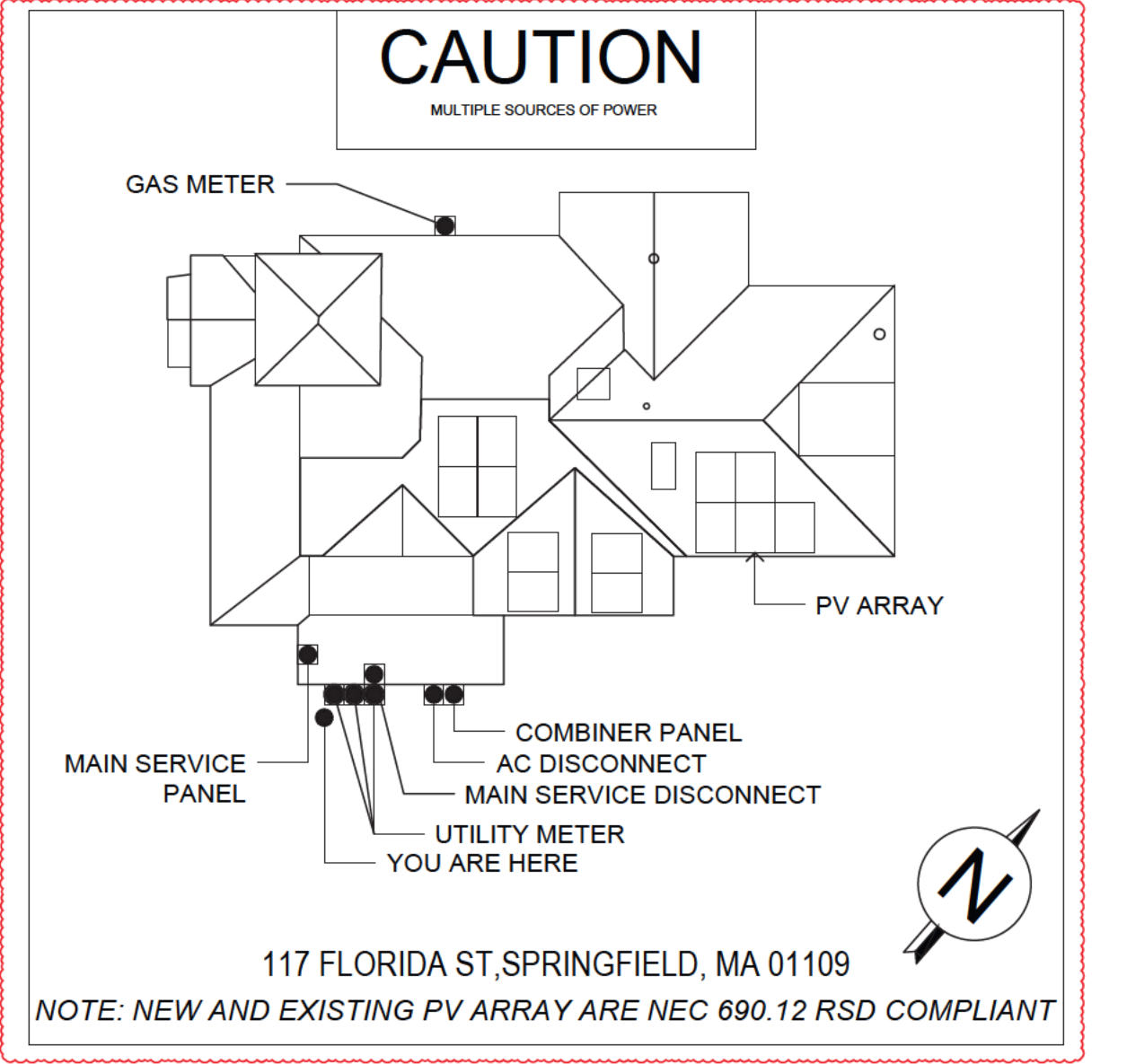
CODE REFERENCE: NEC 690.12 (D)(2)
LOCATION: TO BE LOCATED ON OR NO MORE THAN 3 FT AWAY FROM RSD INITIATION DEVICE

! WARNING

PHOTOVOLTAIC SYSTEM COMBINER PANEL

DO NOT ADD LOADS.

LOCATION: AT PV COMBINER PANEL (IF APPLICABLE)



Exp: 6/30/2026
STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)-405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) SSI PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SIGNAGE & PLACARD	PV06

BILL OF MATERIALS

BILL OF MATERIALS

ITEM	ITEM DESCRIPTION	PART NUMBER	QUANTITY REQUIRED	UNIT
PV SYSTEM HARDWARE				
PV MODULE	QCELLS Q.PEAK DUO BLK ML-G10.C+ 410	Q.PEAK DUO BLK ML-G10.C+ 410	13	PCS
MICROINVERTER	ENPHASE IQ8HC-72-M-DOM-US	IQ8HC-72-M-DOM-US	13	PCS
COMBINER	ENPHASE IQ COMBINER	X-IQ-AM1-240-5	1	PCS
AC DISCONNECT	60 RATED 240VAC NEMA 3R UL LISTED	D222NRB	1	PCS
JUNCTION BOX	600VDC NEMA 3R UL LISTED JUNCTION BOX	480-276	4	PCS
BREAKER/FUSES				
FUSES	30A FUSE (S)	GENERAL 30A FUSE (S)	2	PCS
TAP CONNECTORS	IPC INSULATION PIERCING CONNECTORS	IPC TAP	2	PCS
COMBINER BREAKER	20A 2-POLE BREAKER (S)	GENERAL 20A 2-POLE BREAKER (S)	2	PCS
MOUNTING HARDWARE				
ROOF ATTACHMENT	S5! PROTEABRACKET	S5! PROTEABRACKET	48	PCS
ROOF ATTACHMENT	T-BOLT, BONDING HARDWARE	IRIDG BHW-TB-03-A1	48	PCS
RAIL	DOMESTIC XR10 RAIL 168 (14 FEET) MILL, US	IRIDG XR-10-168M-US	8	PCS
SPLICE BAR	DOMESTIC IRONRIDGE SPLC BAR BONDED, US	IRIDG XR10-BOSS-01-M1-US	7	PCS
MID CLAMP	DOMESTIC IRONRIDGE MID CLAMP, US	IRIDG XR-MID-01-B1-US	10	PCS
END CLAMP	DOMESTIC IRONRIDGE END CLAMP, US	IRIDG UFO-END-01-B1-US	32	PCS
GROUNDING LUGS	GROUNDING LUGS LOW PROFILE	IRIDG XR-LUG-04-A1	8	PCS
MOUNT (MLPE)	DOMESTIC IRONRIDGE MOUNT (MLPE), US	IRIDG QM-MLPE-01-M1-US	13	PCS



Exp: 6/30/2026

STAMPED 05/25/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
 3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
 PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
 1007 JOHNNIE DODDS BLVD SUITE 111,
 CHARLESTON, SC 29464
 PHONE: 854-999-4837
 EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
 AC SIZE: 4.940 KW
 MODULES : (13) QCELLS Q.PEAK DUO BLK
 ML-G10.C+ 410
 INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
 MOUNT: (38) S5! PROTEABRACKET
 RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

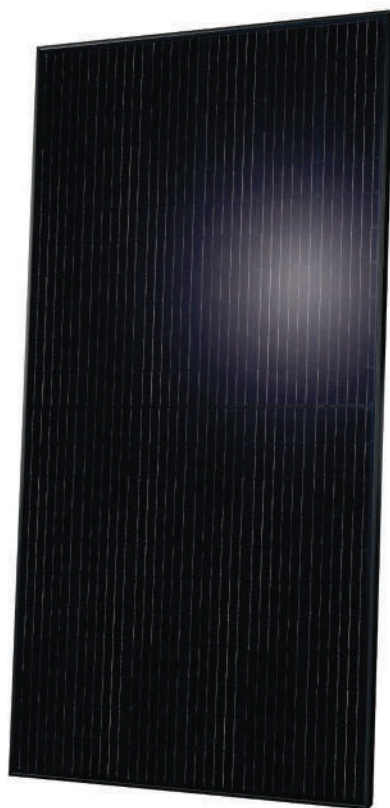
PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
BILL OF MATERIALS	PVBOM

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.a+
*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:



Rooftop arrays on residential buildings

*DCA Module Option:

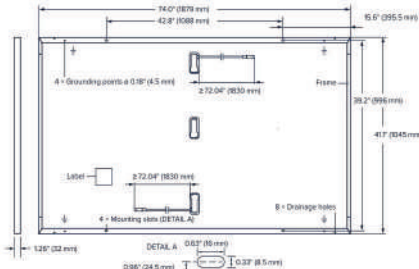
DCA 17 module has material code 'MD06G100A-017' printed on the module power label.



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

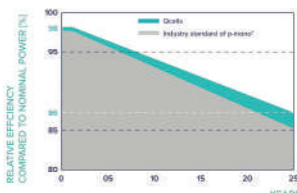
POWER CLASS			395	400	405	410	415
MINIMUM PERFORMANCE AT STANDARD TEST CONDITIONS, STC ¹ (POWER TOLERANCE +5W/-0 W)							
Minimum	Power at MPP ¹	P _{MPP} [W]	395	400	405	410	415
	Short Circuit Current ¹	I _{SC} [A]	11.10	11.14	11.17	11.20	11.23
	Open Circuit Voltage ¹	V _{OC} [V]	45.27	45.30	45.34	45.37	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

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 • 2800 W/m², NMOT, spectrum AM 1.5

Qcells PERFORMANCE WARRANTY

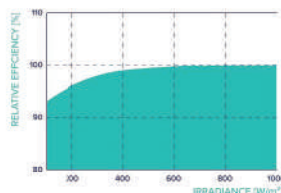


At least 98% of nominal power during first year. Thereafter max. 0.5% degradation per year. At least 93.5% of nominal power up to 10 years. At least 86% of nominal power up to 25 years.

All data within measurement tolerances. Full warranties in accordance with the warranty terms of the Qcells sales organization of your respective country.

¹ Standard terms of guarantee for the 5 PV companies with the highest production capacity in 2021 (February 2023)

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 ²	[lbs/r 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/r ²]	113 (5400 Pa)/84 (4000 Pa)		

² See Installation Manual

■ Qualifications and Certificates

UL61730-1 & UL61730-2, CE-compliant, Quality Controlled PV - TÜV Rheinland, 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.
Hanshin 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



Specifications subject to technical changes © Qcells Q.PEAK DUO BLK ML-G10+ series_DCA_395-415_DAL_202503_Rev001_NA

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL: info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES: (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER: (13) ENPHASE IQ8HC-72-M-DOM-US

MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS01



DATA SHEET



IQ8HC Microinverter

Our newest IQ8 Series Microinverters are the industry's first microgrid-forming*, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. The brain of the semiconductor-based microinverter is our proprietary application-specific integrated circuit (ASIC), which enables the microinverter to operate in grid-tied or off-grid modes. This chip is built in advanced 55-nm technology with high-speed digital logic and has superfast response times to changing loads and grid events, alleviating constraints on battery sizing for home energy systems.



Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis software.



IQ8 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



Connect PV modules quickly and easily to the IQ8 Series Microinverters that have integrated MC4 connectors.



IQ8 Series Microinverters are UL Listed as PV rapid shutdown equipment and conform with various regulations when installed according to the manufacturer's instructions.

Easy to install

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- Faster installation with simple two-wire cabling

High productivity and reliability

- Produces power even when the grid is down*
- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB)

NOTE:

- IQ8 Series Microinverters cannot be mixed together with previous generations of Enphase microinverters (IQ7 Series, IQ6 Series, and so on) in the same system.
- IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative, according to the IEEE 1547 interconnection standard. An IQ Gateway is required to make these changes during installation.

IQ8HC Microinverter

INPUT DATA [DC]	UNITS	IQ8HC-72-M-US/IQ8HC-72-M-DOM-US ¹
Commonly used module pairings ²	W	320–540
Module compatibility	–	To meet compatibility, PV modules must be within the maximum input DC voltage and maximum module I_{sc} listed below. Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator .
MPPT voltage range	V	29.5–45
Operating range	V	18–58
Minimum/Maximum start voltage	V	22/58
Maximum input DC voltage	V	60
Maximum continuous operating DC current	A	14
Maximum input DC short-circuit current	A	25
Maximum module I_{sc}	A	20
Overvoltage class DC port	–	II
DC port backfeed current	mA	0
PV array configuration	–	Ungrounded array; no additional DC side protection required; AC side protection requires max. 20 A per branch circuit

OUTPUT DATA [AC]	UNITS	IQ8HC-72-M-US @240 VAC IQ8HC-72-M-DOM-US ¹ @240 VAC	IQ8HC-72-M-US @208 VAC IQ8HC-72-M-DOM-US @ 208 VAC
Peak output power	VA	384	366
Maximum continuous output power	VA	380	360
Nominal grid voltage (L-L)	V	240, split-phase (L-L), 180°	208, single-phase (L-L), 120°
Minimum and maximum grid voltage ³	V	211–264	183–229
Maximum continuous output current	A	1.58	1.73
Nominal frequency	Hz	60	
Extended frequency range	Hz	47–68	
AC short-circuit fault current over three cycles	A _{rms}	2.70	
Maximum units per 20 A (L-L) branch circuit ⁴	–	10	9
Total harmonic distortion	%	<5	
Overvoltage class AC port	–	III	
AC port backfeed current	mA	18	
Power factor setting	–	1.0	
Grid-tied power factor (adjustable)	–	0.85 leading ... 0.85 lagging	
Peak efficiency	%	97.3	97.2
CEC weighted efficiency	%	97.0	96.5
Nighttime power consumption	mW	22	26

MECHANICAL DATA			
Ambient temperature range	°C [°F]	–40 to 65 (–40 to 149)	
Relative humidity range	%	4 to 100 (condensing)	
DC connector type	–	Stäubli MC4	
Dimensions (H × W × D); Weight	mm [in]; kg [lb]	212 (8.3) × 175 (6.9) × 30.2 (1.2); 1.1 (2.43)	
Cooling	–	Natural convection – no fans	
Approved for wet locations; Pollution degree	–	Yes; PD3	
Enclosure	–	Class II double-insulated, corrosion-resistant polymeric enclosure	
Environmental category; UV exposure rating	–	NEMA Type 6; outdoor	

¹ IQ8HC-72-M-DOM-US is undergoing compliance, and the specs are preliminary. This SKU is made in the USA, and 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.

² No enforced DC/AC ratio.

³ Nominal voltage range can be extended beyond nominal if required by the utility.

⁴ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

IQ8HC-MC4-DSH-00047-5.0-EN-US-2024-07-19

IQ8HC-MC4-DSH-00047-5.0-EN-US-2024-07-19

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: **5.330** KW
AC SIZE: **4.940** KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US

MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS02

IQ Combiner 5/5C

MODEL NUMBER	
IQ Combiner 5 (X-IQ-AM1-240-5/ X-IQ-AM1-240-5-HDK)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%), and IQ Battery monitoring (±2.5%). Includes a silver solar shield to deflect heat. IQ-AM1-240-5-HDK includes a factory installed hold-down kit compatible with all the circuit breakers mentioned in the Accessories and Replacement Parts section.
IQ Combiner 5C (X-IQ-AM1-240-5C / X-IQ-AM1-240-5C-HDK)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated revenue-grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%), and IQ Battery monitoring (±2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-M1-06-SP-05) ¹ . Includes a silver solar shield to deflect heat. IQ-AM1-240-5C-HDK includes a factory installed hold-down kit compatible with all the circuit breakers mentioned in the Accessories and Replacement Parts section.

WHAT'S IN THE BOX	
IQ Gateway printed circuit board	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance, and management of the Enphase Energy System
Busbar	80 A busbar with support for one IQ Gateway breaker and four 20 A breakers for installing IQ Series Microinverters and IQ Battery 5P
IQ Gateway breaker	Circuit breaker, 2-pole, 10 A/15 A
Production CT	Pre-wired revenue-grade solid-core CT, accurate up to ±0.5%
Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to ±2.5%
IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to ±2.5%
CTRL board	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery 5P
Enphase Mobile Connect (only with IQ Combiner 5C)	4G-based LTE-M1 cellular modem (CELLMODEM-M1-06-SP-05) with a 5-year T-Mobile data plan
Accessories kit	Spare control headers for the COMMS-KIT-2 board

ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
CELLMODEM-M1-06-SP-05	4G-based LTE-M1 cellular modem with a 5-year T-Mobile data plan
CELLMODEM-M1-06-AT-05	4G-based LTE-M1 cellular modem with a 5-year AT&T data plan
Circuit breakers (off-the-shelf)	Supports Eaton BR2XX, Siemens Q2XX, and GE/ABB THQL21XX Series circuit breakers (XX represents 10, 15, 20, 30, 40, 50, or 60). Also supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with the hold-down kit.
Circuit breakers (provided by Enphase)	BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B (more details in the "Accessories" section)
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 5/5C
XA-ENV2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for IQ Combiner 5/5C
X-IQ-NA-HD-125A	Hold-down kit compatible with Eaton BR-B Series circuit breakers (with screws). Not required for X-IQ-AM1-240-5-HDK/X-IQ-AM1-240-5C-HDK.
XA-COMMS2-PCBA-5	Replacement COMMS-KIT-2 printed circuit board (PCB) for IQ Combiner 5/5C

ELECTRICAL SPECIFICATIONS	
Rating	80 A
System voltage and frequency	120/240 VAC or 120/208 VAC, 60 Hz
Busbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/ storage)	64 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR, Siemens Q, or GE/ABB THQL Series distributed generation (DG) breakers only (not included)
Maximum total branch circuit breaker rating (input)	80 A of distributed generation/95 A with IQ Gateway breaker included
IQ Gateway breaker	10 A or 15 A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway

¹ A plug-and-play industrial-grade cell modem for systems of up to 60 microinverters. Available in the United States, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.

IQC-5-5C-DSH-00007-6.0-EN-US-2024-09-30

ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box
MECHANICAL DATA	
Dimensions (W × H × D)	37.5 cm × 49.5 cm × 16.8 cm (14.75" × 19.5" × 6.63"). Height is 53.5 cm (21.06") with mounting brackets.
Weight	7.5 kg (16.5 lb)
Ambient temperature range	-40°C to 46°C (-40°F to 115°F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors - Main lug combined output: 10 to 2/0 AWG copper conductors - Neutral and ground: 14 to 1/0 copper conductors - Always follow local coderequirements for conductor sizing

Communication (in-premise connectivity)	Built-in CTRL board for wired communication with the IQ Battery 5P and the IQ System Controller 3/3G. Integrated power line communication for IQ Series Microinverters.
Altitude	Up to 2,600 meters (8,530 feet)

COMMUNICATION INTERFACES	
Integrated Wi-Fi	802.11b/g/n (dual band 2.4 GHz/5 GHz) for connecting the Enphase Cloud through the internet.
Wi-Fi range (recommended)	10 m (32.8 feet)
Bluetooth	BLE4.2, 10 m range to configure Wi-Fi SSID
Ethernet	Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included) for connecting to the Enphase Cloud through the internet.
Cellular/Mobile Connect	CELLMODEM-M1-06-SP-05 or CELLMODEM-M1-06-AT-05 (included with the IQ Combiner 5C)
Digital I/O	Digital input/output for grid operator control
USB 2.0	Mobile Connect, COMMS-KIT-01 for IQ Battery 3/3T/10/10T, COMMS-KIT-02 for IQ Battery 5P
Access point (AP) mode	For connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	Up to two Consumption CTs, one IQ Battery CT, and one Production CT
Power line communication	90–110 kHz
Web API	See https://developer-v4.erphase.com
Local API	See Guide for local API

COMPLIANCE	
IQ Combiner with IQ Gateway	UL 1741, CAN/CSA C22.2 No. 107.1, Title 47 CFR, Part 15, Class B, ICES 003, NOM-208-SCFI-2016, UL 61010-1, CAN/CSA 22.2 No. 61010-1, IEEE 1547: 2018 (UL 1741-SB, 3rd Ed.), IEEE 2030.5/CSIP Compliant, Production metering: ANSI C12.20 accuracy class 0.5 (PV production)

COMPATIBILITY		
PV	Microinverters	IQ6, IQ7, and IQ8 Series Microinverters
COMMS-KIT-01 ²	IQ System Controller	EP200G101-M240US00
	IQ System Controller 2	EP200G101-M240US01
	IQ Battery	ENCHARGE-3-1P-NA, ENCHARGE-10-1P-NA, ENCHARGE-3T-1P-NA, ENCHARGE-10T-1P-NA
COMMS-KIT-02 ³	IQ System Controller 3	SC200D111C240US01, SC2C0G111C240US01
	IQ Battery	IQBATTERY-5P-1P-NA

² For information about IQ Combiner 5/5C compatibility with the 2nd-generation batteries, refer to the [compatibility matrix](#).
³ IQ Combiner 5/5C comes pre-equipped with COMMS-KIT-02.

IQC-5-5C-DSH-00007-6.0-EN-US-2024-09-30

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO	
NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: **5.330** KW
AC SIZE: **4.940** KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US

MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS03

The right way to attach almost anything to metal roofs!

S-5!®

The Right Way

ProteaBracket™

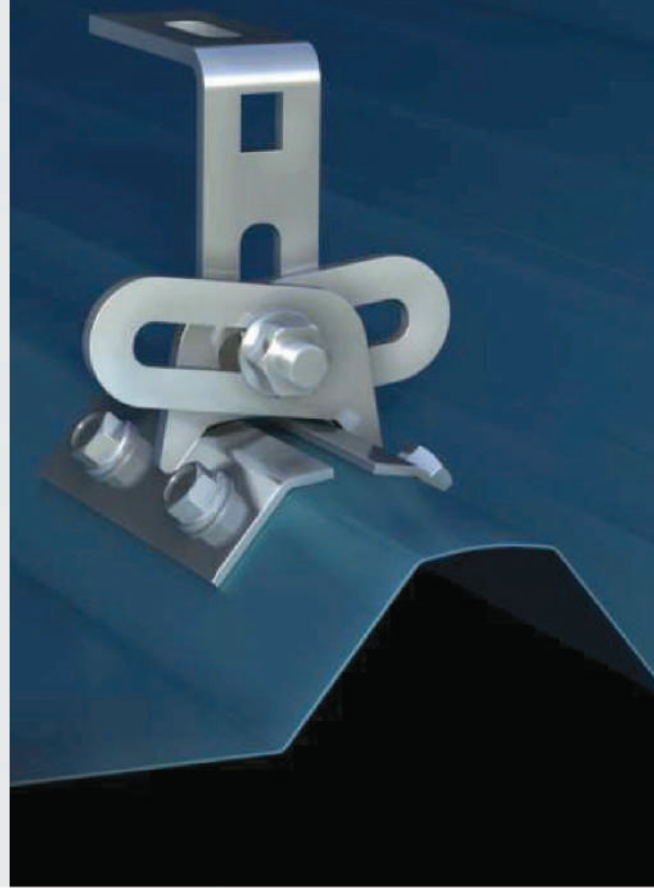
ProteaBracket™ is the most versatile attachment solution on the market, fitting most metal trapezoidal sheet profiles with and without intermediate insulation. It features an adjustable attachment base and multiple solar module attachment options (illustrated on back) to accommodate varying widths and heights. There are no messy sealants to apply and no chance for leaks; the ProteaBracket comes with factory-applied, adhesive rubber sealant to ensure quick installation and a weather-proof fit.

The ProteaBracket is mounted directly onto the crown of the panel, straddling the profile. No surface preparation is necessary; simply wipe away excess oil and debris, align, and apply. Secure ProteaBracket through all 6 pre-punched holes.

ProteaBracket is the perfect match for the S-5-PV Kit, for a solar attachment solution that is both economical and easy to use.

S-5!® ProteaBracket™ is a versatile bracket that adjusts easily to most trapezoidal roof profiles.

S-5! PV kits have an M8 bolt and are suitable for use with all S-5! clamps.



ProteaBracket™

S-5!®

The Right Way

ProteaBracket™ is the perfect solar attachment solution for most trapezoidal exposed-fastened metal roof profiles. No messy sealants to apply: the factory-applied adhesive rubber sealant weather-proofs and makes installation easy.

S-5!® holding strength is unmatched in the industry.

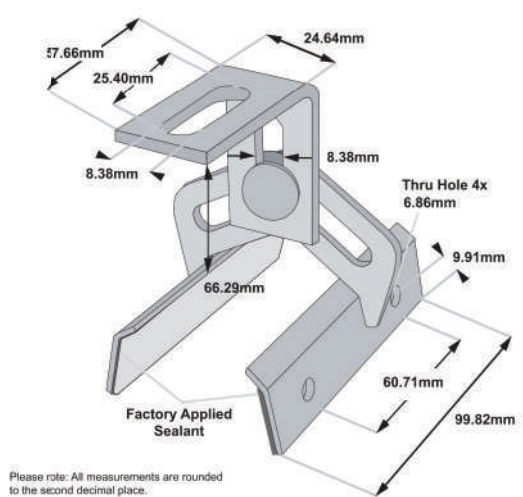
Each ProteaBracket™ comes with a factory-applied, adhesive rubber sealant on the base. A structural A2 stainless steel bimetal attachment bracket, ProteaBracket is compatible with most common metal roofing materials.

All four pre-punched holes must be used to achieve tested strength. For design assistance, contact Safintra South Africa (and see our website www.safintra.co.za), or visit www.S-5.com for the independent lab test data that can be used for load-critical designs and applications. Also, please visit S-5! website for more information including metallurgical compatibilities and specifications.

Multiple Attachment Options:



ProteaBracket™



Please note: All measurements are rounded to the second decimal place.



S-5!® Warning! Please use this product responsibly!

S-5! Brackets and clamps are not tested for performance as part of a Fall Arrest or Personal Safety system. These applications need to be tested as a dynamic system and warranties or test results must be issued by the system provider. Safintra, Safal Group and its subsidiaries provide no warranties or any assurances in this application, and will accept no claims of any nature whatsoever arising out of any such applications.

Products are protected by multiple international patents. For published data regarding holding strength, bolt torque, patents and trademarks visit the S-5! website at www.S-5.com.

Copyright 2013, Metal Roof Innovations, Ltd. S-5! products are patent protected. S-5! Aggressively protects its patents, trademarks and copyrights.

Sole Agents for Africa:



THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: **5.330 KW**
AC SIZE: **4.940 KW**
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

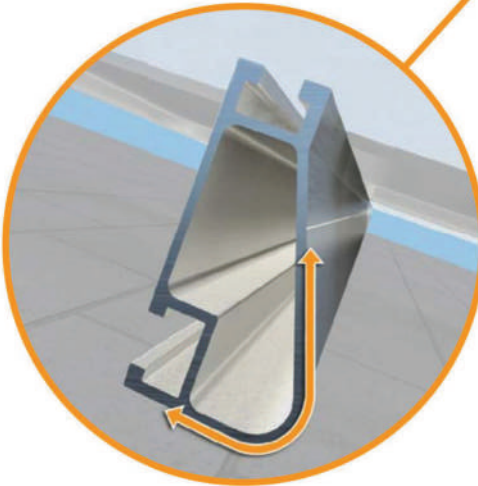
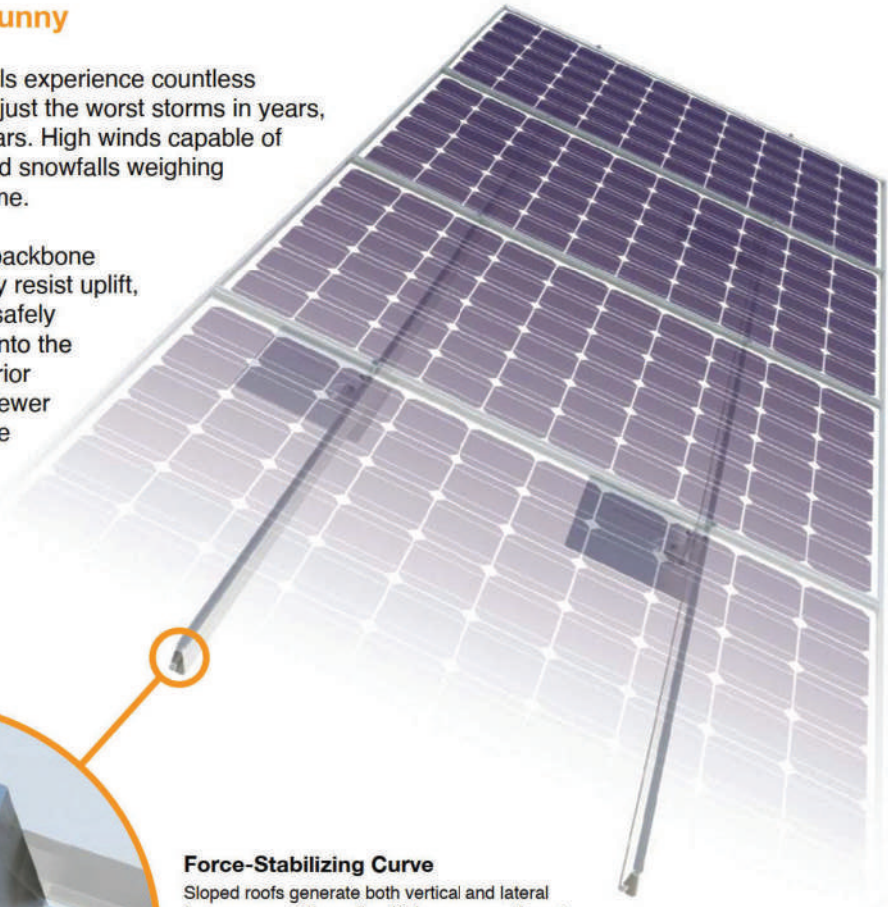
SHEET NAME	SHEET #
SPECIFICATION SHEET	SS04



Solar Is Not Always Sunny

Over their lifetime, solar panels experience countless extreme weather events. Not just the worst storms in years, but the worst storms in 40 years. High winds capable of ripping panels from a roof, and snowfalls weighing enough to buckle a panel frame.

XR Rails® are the structural backbone preventing these results. They resist uplift, protect against buckling and safely and efficiently transfer loads into the building structure. Their superior spanning capability requires fewer roof attachments, reducing the number of roof penetrations and the amount of installation time.



Force-Stabilizing Curve
Sloped roofs generate both vertical and lateral forces on mounting rails which can cause them to bend and twist. The curved shape of XR Rails® is specially designed to increase strength in both directions while resisting the twisting. This unique feature ensures greater security during extreme weather and a longer system lifetime.

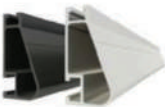
Compatible with Flat & Pitched Roofs

XR Rails® are compatible with FlashFoot® and other pitched roof attachments.

IronRidge® offers a range of tilt leg options for flat roof mounting applications.

6000-Series Aluminum

All XR Rails® are made of 6000-series aluminum alloy, with anodized options. Anodizing prevents corrosion, while also providing a more attractive appearance. Available in mill and black-anodized finish.



Tech Brief

XR Rail® Family

XR Rail® Family

The XR Rail® Family offers the strength of a curved rail in three targeted sizes. Each size supports specific design loads, while minimizing material costs. Depending on your location, there is an XR Rail® to match.



XR10

XR10 is a sleek, low-profile mounting rail, designed for regions with light or no snow. It achieves spans up to 6 feet, while remaining light and economical.

- 6' spanning capability
- Moderate load capability
- Mill & black-anodized finish
- Internal splices available



XR100

XR100 is a residential and commercial mounting rail. It supports a range of wind and snow conditions while also maximizing spans up to 10 feet.

- 10' spanning capability
- Heavy load capability
- Mill & black-anodized finish
- Internal splices available



XR1000

XR1000 is a heavyweight among solar mounting rails. It's built to handle extreme climates and spans up to 12 feet for commercial applications.

- 12' spanning capability
- Extreme load capability
- Mill, non-anodized finish
- Internal splices available

Rail Selection

The table below was prepared in compliance with applicable engineering codes and standards.* Values are based on the following criteria: ASCE 7-16, Gable Roof Flush Mount, Roof Zones 1 & 2e, Exposure B, Roof Slope of 8 to 20 degrees and Mean Building Height of 30 ft. Visit IronRidge.com for detailed certification letters.

Load		Rail Span					
Snow (PSF)	Wind (MPH)	4'	5' 4"	6'	8'	10'	12'
None	90	XR10		XR100		XR1000	
	120						
	140						
	160						
20	90						
	120						
	140						
	160						
30	90						
	160						
40	90						
	160						
80	160						
120	160						

*Table is meant to be a simplified span chart for conveying general rail capabilities. Use approved certification letters for actual design guidance.

Tech Brief

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: **5.330 KW**
AC SIZE: **4.940 KW**
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS05

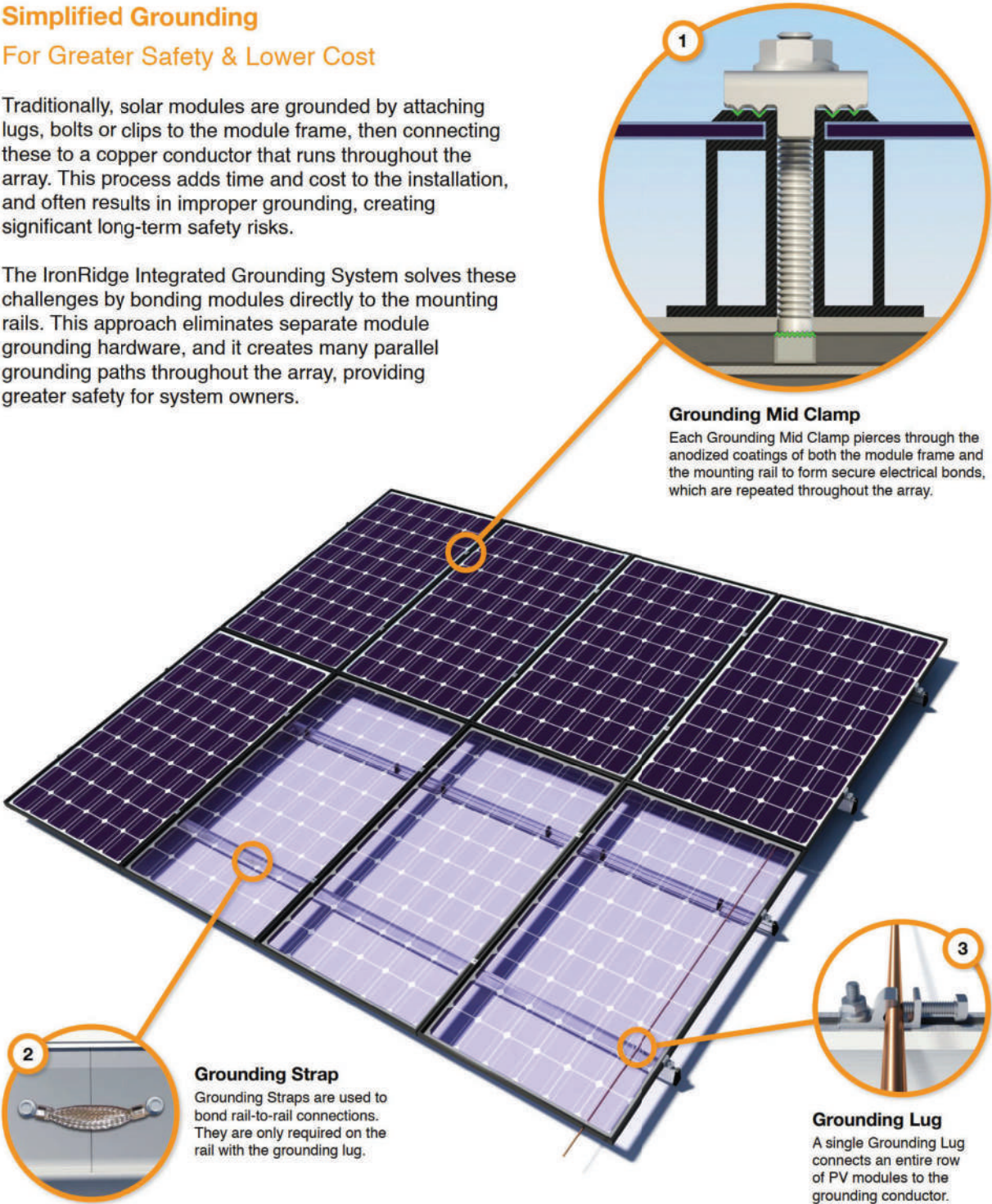


Simplified Grounding For Greater Safety & Lower Cost

Traditionally, solar modules are grounded by attaching lugs, bolts or clips to the module frame, then connecting these to a copper conductor that runs throughout the array. This process adds time and cost to the installation, and often results in improper grounding, creating significant long-term safety risks.

The IronRidge Integrated Grounding System solves these challenges by bonding modules directly to the mounting rails. This approach eliminates separate module grounding hardware, and it creates many parallel grounding paths throughout the array, providing greater safety for system owners.

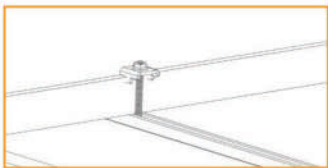
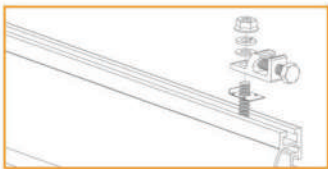
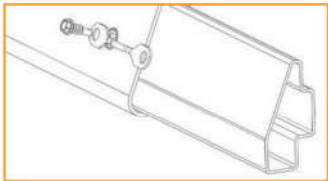
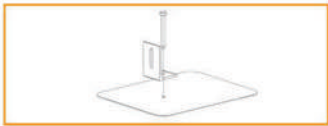
Integrated Grounding System



Tech Brief

Installation Overview

- 1 Install Roof Attachments**
 - Install appropriate roof flashing and/or standoff for roof type.
 - Attach L-Feet to flashing or standoff.
- 2 Prepare Rail Connections**
 - Insert splice into first rail, then secure with Grounding Strap and self-drilling screw.
 - Slide second rail over splice, then secure with opposite end of Grounding Strap and self-drilling screw.
- 3 Mount & Ground Rails**
 - Attach rails to L-Feet and level rails.
 - Install one Grounding Lug per row of modules.
 - Connect Grounding Lug to grounding conductor.
- 4 Install Modules & Clamps**
 - Install first module using End Clamps and Grounding Mid Clamps.
 - Install additional modules using Grounding Mid Clamps.
 - Finish row with a second pair of End Clamps.



Testing & Certification

The IronRidge Integrated Grounding System has been tested and certified to UL 2703 by Intertek Group plc.

UL 2703 is a proposed UL standard for evaluating solar module mounting and clamping devices. It ensures these devices will maintain strong electrical and mechanical connections over an extended period of time in extreme outdoor environments.

The testing process closely mirrors that of UL 1703, the solar module testing standard, including temperature and humidity cycling, electrical and mechanical load testing, and manufacturing quality reviews.

Module Frame Compatibility		
	Dimension	Range
	A	31.0mm - 51.0mm
	B	5.08mm (minimum)
Any module frames whose parameters are not listed in the provided table have not been tested for compatibility.		

The Grounding Clamp has proven robust in grounding 60-cell and 72-cell solar module frames with box construction and a range of anodization thicknesses.

All solar modules listed to UL 1703 and with frame construction within the parameters stated above are compatible with the IronRidge Integrated Grounding System.

Go to [ironridge.com/ig](https://www.ironridge.com/ig)

Tech Brief

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL: info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) SS! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS06



25800 Commercentre Drive
Lake Forest, CA 92630 USA

Telephone: 949.448.4100
Facsimile: 949.448.4111
www.intertek.com

Test Verification of Conformity

In the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address:	IronRidge, Inc. 1495 Zephyr Ave. Hayward, CA 94544
Product Description:	XR Rails with Integrated Grounding.
Ratings & Principle Characteristics:	<u>Fire Class Resistance Rating:</u> - Class A for Steep Slope Flush-Mount (symmetrical) Applications when using Type 1 and Type 2, Listed Photovoltaic Module. - Class A for Low Slope Flush-Mount and Tilt-Mount (symmetrical and asymmetrical) Applications when using Type 1, Listed Photovoltaic Module.
Models:	51-61GD-005, 51-61GD-005B, 51-5000-001, and 51-65-001
Brand Name:	N/A
Relevant Standards:	UL Subject 2703 (Section 15.2 and 15.3) Outline of Investigation for Rack Mounting Systems and Clamping Devices for Flat-Plate Photovoltaic Modules and Panels, Issue Number: 2, Nov 13, 2012 Referencing UL1703 (Section 31.2) Standard for Safety for Flat-Plate Photovoltaic Modules and Panels, May 20, 2014
Verification Issuing Office:	Intertek Testing Services NA, Inc. 25800 Commercentre Dr. Lake Forest, CA 92630
Date of Tests:	08/27/2014 to 01/07/2015
Test Report Number(s):	101541132LAX-002

This verification is part of the full test report(s) and should be read in conjunction with them. This report does not automatically imply product certification.

Completed by:	Amar Kacel	Reviewed by:	Andrew Koretoff
Title:	PV Engineer	Title:	Reviewer
Signature:		Signature:	
Date:	01/26/2015	Date:	01/26/2015

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

GFT-OP-11a (24-MAR-2014)

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

PV SUMMARY

DC SIZE: **5.330** KW
AC SIZE: **4.940** KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US

MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS07



Product Data Sheet

Kraloy Junction Box

JBX664 | 278304

Junction boxes form an integral part of a circuit protection system and are constructed to provide a degree of protection to personnel against incidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions. JBX boxes are molded of PVC, are entirely non-metallic and provide NEMA Type 1, 2, 3R, 4, 4X, 6, 6P, 12, 13 protection.

APPLICATION / USE

JBX junction boxes are designed and approved for use in indoor/outdoor, industrial, MRO and OEM applications for the accessibility and installation of wire and cable in continuous lengths and to enclose joints and splices. JBX junction boxes can also be used to enclose electrical equipment in non-hazardous locations.

MATERIAL

PVC, Valox, proprietary gasket

STANDARDS

UL 50/50E, CSA 94.1/94.2, CSA C22.2 No.85, CSA C22.2 No.40



FLAMABILITY RATING

UL 94V-0

OUTDOOR SUITABILITY

UL 746C

BOX VOLUME

172.05 cu.in/2819 ml

NEMA

Type 1, 2, 3R, 4, 4X, 6, 6P, 12, 13

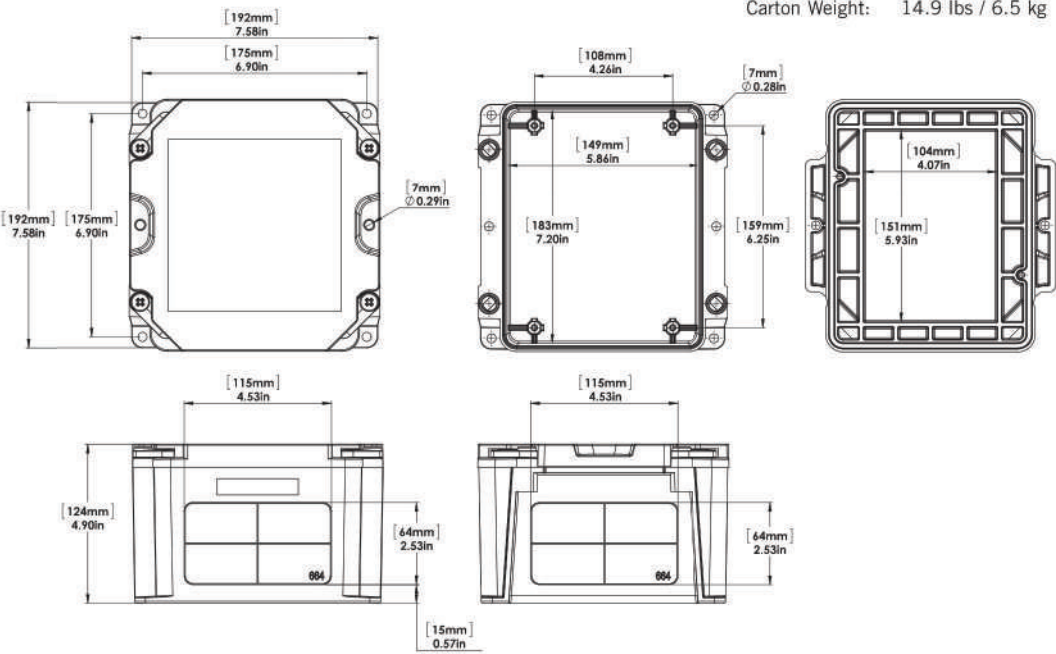
FASTENER TOOL

#2 Phillips screwdriver

PACKAGING

Carton Quantity: 5

Carton Weight: 14.9 lbs / 6.5 kg



Toll Free: 800-265-1815
kraloyfittings.com



THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3600 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY (MA)

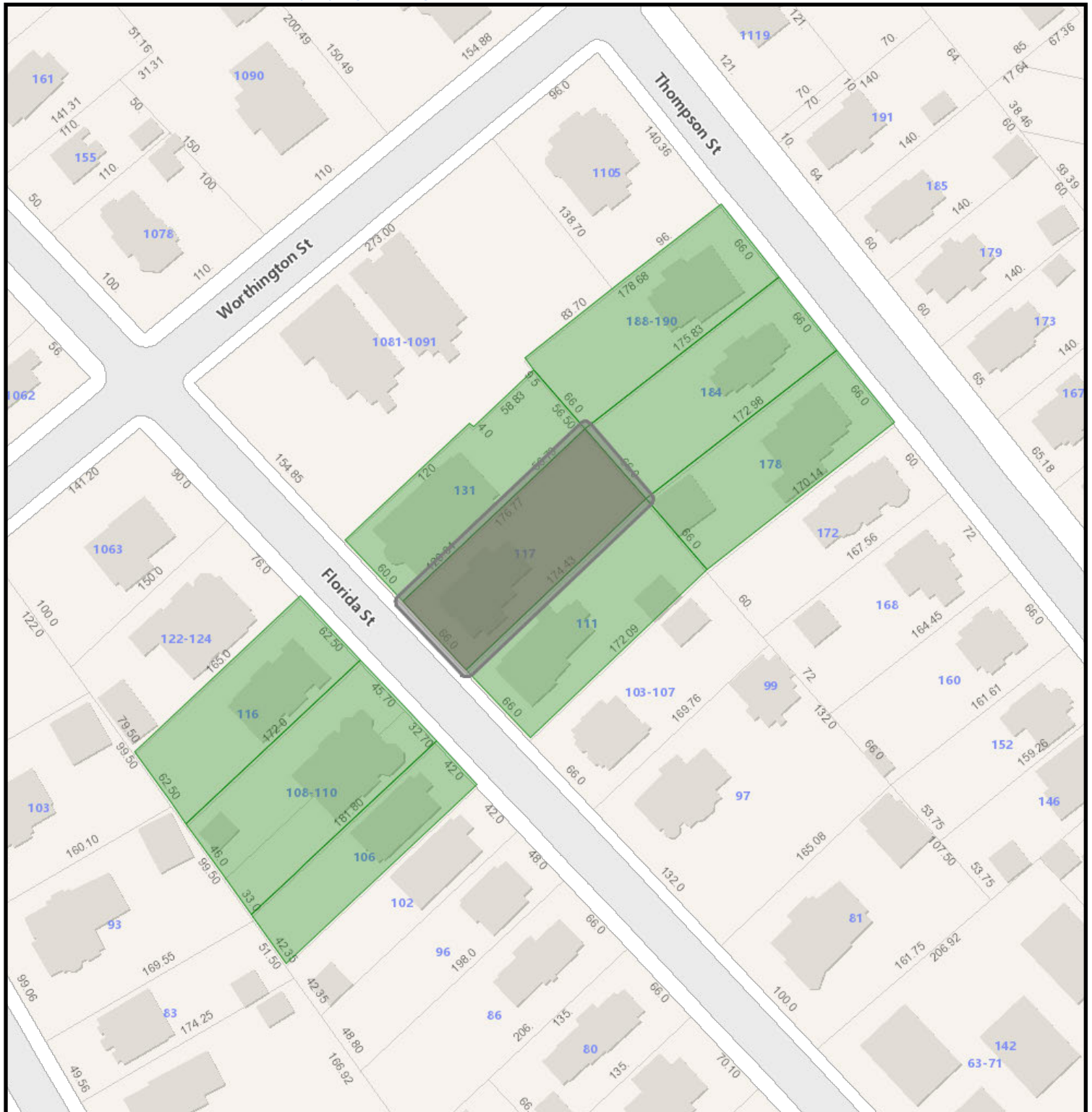
PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) S5! PROTEABRACKET
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
0	INITIAL DESIGN	5/2/2026
1	DESIGN UPDATE	5/21/2026
2	DESIGN UPDATE	5/23/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SPECIFICATION SHEET	SS08

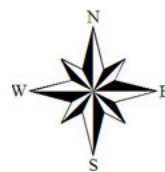


117 Florida Street GIS Map

6/30/2026 8:56:59 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.

052200022
ALEXANDER MICHAEL T &
106 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

115250040
NORFLET HENRIETTA
190 THOMPSON ST
SPRINGFIELD, MA 01109

052200024
RIVERA KARLA M
110 FLORIDA ST
SPRINGFIELD, MA 01109

052200063
SRK REALTY LLC
5 LAUREL RIDGE LN
SHREWSBURY, MA 01545

052200025
YELLOWBRICK PROPERTY
P O BOX 91199
SPRINGFIELD, MA 01139



Springfield Historical Commission



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

APPLICATION CHECKLIST

PROPERTY ADDRESS: 117 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>July 22, 2026</i>	DECISION DATE:
HEARING DATE: <i>August 6, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>July 23, 2026</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>July 23, 2026</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: 117 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: 117 Florida St, Springfield, MA 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Iris Garcia		
OWNER ADDRESS: ☒ Check box if same as property address		
OWNER PHONE NUMBER: [REDACTED]	REPRESENTATIVE/CONTRACTOR NAME: EMPWR SOLAR LLC	
OWNER EMAIL ADDRESS: [REDACTED]	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: [REDACTED]	
PROPERTY CODE: RESIDENTIAL 05220-0064	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: [REDACTED]	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Re-roof will be Asphalt shingles rather than a metal roof. The reroof will be done only on roofs with solar modules. The attachment will also be revised to HUG mounts		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.

Signed by:

Iris Garcia

PCDESOP8712A4F1...

PROPERTY OWNER'S SIGNATURE

7/22/2026

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):		Asphalt shingles
PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING ROOFING: 		
PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE ROOFING: Re-roof will be Asphalt shingles rather than a metal roof. The reroof will be done only on roofs with solar modules. The attachment will also be revised to HUG mounts		
ADDITIONAL INFORMATION: -HALF RE-ROOF NEEDED - RE-ROOFING ALL SOLAR ARRAY AREAS WITH COMPOSITION ASPHALT SHINGLES. - ANY ROOF AREAS THAT DO NOT HAVE SOLAR PANELS WILL NOT BE REPLACED AND WILL REMAIN WITH THE EXISTING TILE ROOFING.		

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):		



County Board Meeting Acknowledgement for Your Solar Project

This document is provided to you as a customer of EMPWR Solar, LLC to confirm your acknowledgment of the following:

Certain Authorities Having Jurisdiction (AHJs), districts, and/or specific project types may require a county board meeting as part of the project approval process. During this meeting, your solar project may be reviewed, evaluated, and considered for approval.

By signing below, you acknowledge and understand that you may be required to attend a county board meeting in order to obtain approval from the applicable AHJ for your solar project.

Please note that, if a representative is available to attend on your behalf, EMPWR Solar, LLC will make every reasonable effort to have a representative attend as the first option.

For the sake of this meeting, Miss Evelyn Martinez will be attending on your behalf.

The specific details pertaining to your jurisdiction and project will be provided and discussed with you during our permitting phase.

If you have any questions, please do not hesitate to contact us.

Thank you for being a valued EMPWR Solar customer!

Customer Name: Iris Garcia

Signature: *Iris Garcia*

Date: 07/14/2026

07/21/2026

EMPWR Solar LLP

1007 Johnnie Dodds Boulevard, Suite 111, Charleston, SC, 29464



Attn.: To Whom It May Concern

Job: Iris Garcia

Project Address: 117 Florida Street, Springfield, MA, 01109

After review, we certify that the alteration to the existing structure by installation of the PV system meets the prescriptive requirements of the applicable codes and criteria shown below:

All mounting equipment shall be installed per manufacturer's approved installation specifications.

Design Criteria

Code: MA 10th Ed. 780 CMR, , IBC 2021, IRC 2021, IEBC 2021, ASCE 7-16

Risk Category: II

Live Load: 20 psf

Ult Wind Speed: 115.0 mph

Exposure Cat: C

Ground Snow: 35.0 psf

Min Flat Snow: 35.0 psf



Signed on: 07/21/2026

Current Renewables Engineering Inc.
Professional Engineer
info@currentrenewableseng.com

Gravity Checks:**Loads Pre-PV:**

	Check 1
D (psf):	7.495
D + L (psf):	27.495
D + S (psf):	42.495
Governing Load Value (psf):	42.495
Governing LC:	D + S
Governing C _D Factor:	1.150

Loads Post-PV:

	Check 1
D (psf):	10.495
D + S (psf):	25.075
Governing Load Value (psf):	25.075
Governing LC:	D + S
Governing C _D Factor:	1.150

Gravity Load Increase:

	Check 1
$((\text{Load}/C_D)_{\text{postPV}} / (\text{Load}/C_D)_{\text{prePV}}) - 1:$	-40.99%

The increase in gravity loads as a result of the solar system is less than 5% of the existing structure. Therefore, no further framing analysis is required.

Seismic Check:

Existing Weight:

Wall Weight (psf):	17.00
Tributary Wall Area (ft ²):	5,550.00
Total Wall Weight (lbs):	94,350.00
Roof Weight (psf):	7.50
Roof Area (ft ²):	2,948.00
Total Roof Weight (lbs):	22,096.18
Total Existing Weight (lbs):	116,446.18

Additional PV Weight:

PV Panel Weight (lbs):	64.35
Number of Panels:	13
Total Additional PV Weight (lbs):	836.55

Weight Increase:

$$((\text{Existing W} + \text{Additional W}) \div (\text{Existing W})) - 1 = 0.72\%$$

The increase in weight as a result of the solar system is less than 10% of the existing structure. Therefore, no further seismic analysis is required.

Limits of Scope of Work and Liability:

Existing structure is assumed to have been designed and constructed following appropriate codes at time of erection, and assumed to have appropriate permits. The calculations produced are only for the roof framing supporting the proposed PV installation referenced in the stamped planset and were completed according to generally recognized structural analysis standards and procedures, professional engineering and design experience, opinions and judgements. Existing deficiencies which are unknown or were not observable during time of inspection are not included in this scope of work. All PV modules, racking, and mounting equipment shall be designed and installed per manufacturer's approved installation specifications. The Engineer of Record and the engineering consulting firm assume no responsibility for misuse or improper installation. This analysis is not stamped for water leakage. Framing was determined based on information in provided plans and/or photos, along with engineering judgement. Prior to commencement of work, the contractor shall verify the framing sizes, spacings, and spans noted in the stamped plans, calculations, and cert letter (where applicable) and notify the Engineer of Record of any discrepancies prior to starting construction. Contractor shall also verify that there is no damaged framing that was not addressed in stamped plans, calculations, and cert letter (where applicable) and notify the Engineer of Record of any concerns prior to starting construction.

Iris Garcia

117 Florida St, Springfield, MA 01109, USA
Solar - Roof Mount

Homeowner & Project Information

Homeowner Name	Iris Garcia	Project Scope	Solar - Roof Mount
Homeowner Address	117 Florida St, Springfield, MA 01109, USA	Project Scope Notes	MA: Photos and notes/information on where the utility power is connecting to the house. Notate whether it is underground or overhead electrical lines and where it enters the house - Please gather full electrical, along with roof dimensions, obstructions, azimuth + attic dimensions. - If multiple meters & MSPs (multi-family dwelling): Circle/identify which MSP and which meter are interconnecting to. Identify both meter and MSP location in aerial picture. - If flat roof or metal roof: Acoustic test, stud finder, removing can light for rafter size. - If proposal design reflects any panels on a porch: obtain the following: 1) Size of the posts (dimensions) and the measurement between the posts that are holding up the roof 2) Size of the posts (dimensions) and measurements between the posts supporting the porch itself (the foundation) 3) Pictures of ceiling, posts and foundation up close and from a short distance 4) Any information regarding how the foundation is secured to the posts 5) Roof structure pics and dimensions of porch roof (this one can be skipped IF the roof structure can be assumed to be the same as the home)
Homeowner Questions	NONE	IMGING Drone Flight	No

Exterior Evaluation

Gas Meter Distance	Over 20 ft	Mobile / Manufactured Home (Y/N)	No
Generator (Y/N)	No		

Electrical Evaluation

Utility Meter Location	Outside	Incoming Service Feed	Underground
Meter/Main Combo	Standalone Meter	Utility Meter / Main Panel Damage or Red Flags	None of These Apply
MSP Obstructions	No	Other Enclosures / Disconnects / Electrical Panels	Yes
Service Type			

Subpanel or Other Electrical Equipment

Select Type	Subpanel Obstructions	Equipment Damage or Red Flags
-------------	-----------------------	-------------------------------

Sub Panel

Yes

Other (Leave Comment)
The rating sticker is covered by wires, can't get it's images. This is HO's sub panel.

Structural Evaluation

Attic & Structural

Select Structure Type	Attic Access (Y/N)	Purlins (Y/N)	Structural Damage	Attic / Structural Damage
House	Yes		No	

Roof Evaluation

Ground Mount? (Y/N)

No

Septic Tank

Ground Mount Obstructions

Roof Evaluation

Select Roof Type	Flat Roof Sections	Pitched Roof Sections	Age of Roof	Roof Damage	Existing Solar Equipment Accessibility	Contact Enphase / SolarEdge	Microinverters / Optimizers (Y/N)
Other Roof Type	No	Yes		None of the above			

Battery

New Battery (Y/N)?

No

Whole Home vs. Partial Home Backup

Existing Battery (Y/N)

No

Trenching

Trenching Info Instructions

The question below, "Trenching Required?" should be answered "Yes" if any of the following criteria are true:

1.) There will be modules installed on two separate structures (i.e., home and barn)

2.) The proposed system is a ground-mount

Trenching Required?

No

Ground Trench Material

Underground Lines / Utilities

Site Map

SITE MAP INSTRUCTIONS

Final Notes

Mark up an image of an overhead view of the home. This can be done on the included proposal, a Google Earth Screenshot, Hand Drawn with Graph paper, or using a drone aerial photo.

If hand drawn, shape of home should resemble a Google Earth screenshot, rather than just a rectangle.

- (1) Name and label each structure
- (2) Roof measurements for each structure that will have panels installed (Perimeter of specified roof plane(s), Distances of obstructions to boundaries)
- (3) Underground lines/piping (communication, water, gas, sewer, septic, sprinkler, or electrical -- if homeowner knows)
- (4) Utility meter location (UM)
- (5) Main service panel location (MSP)
- (6) MSD Location (if applicable)
- (7) Water main location and distance to MSP or MSD
- (8) Gas meter
- (9) Rafter Orientation on all proposed solar install roof locations

- (9) (If applicable) Trench Route
- (10) (If applicable) Ground Mount Location
- (11) (If applicable) Existing battery location
- (12) (If applicable) Existing generator location(s)
- (13) (If applicable) Existing generator ATS location
- (19) (If applicable) Septic tank location

requires a 28ft+ ladder

Panels 1 are of HO and the utility meter for which close up images have been provided is of the HO.

HO was not okay with removing slate.

Drone not working properly so can't do IMGING





Loc: 42.114, -72.5744



Loc: 42.114, -72.5744



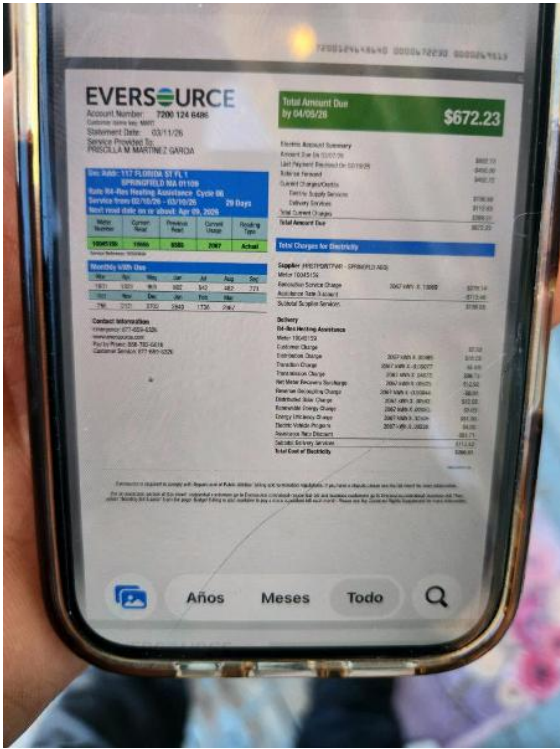
Loc: 42.114, -72.5744

Exterior Evaluation / Address Photo



Loc: 42.114, -72.5744

Exterior Evaluation / Address Photo



Loc: 42.114, -72.5744

Exterior Evaluation / Address Photo



Loc: 42.114, -72.5744

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Exterior Home Structure Walls



Loc: 42.114, -72.5747

Exterior Evaluation / Gas Meter



Loc: 42.114, -72.5746

Electrical Evaluation / Meter/Main Combo



Loc: 42.114, -72.5744

Electrical Evaluation / Distance From Meter to MSP



Loc: 42.114, -72.5745

Electrical Evaluation / Distance From Meter to MSP



Loc: 42.114, -72.5745

Electrical Evaluation / Distance From Meter to MSP



Loc: 42.114, -72.5745



Date: 7/21/2026

To: City of Springfield, MA

Address: 117 Florida St, Springfield, MA 01109

RE: Response to Plan Review Comments – 117 Florida St, Springfield, MA 01109

Dear Plan Reviewers,

On behalf of EMPWR Solar and in response to the plan review comments issued on 7/22/2026, please find the following responses and accompanying revised documents for the above-referenced project. We appreciate your review and the opportunity to address each comment in detail below.

Response Summary

Comment No.	Revision Comment	Engineer Response	Sheet Reference
Rev1	- Please revise plans to match with the proposal layout. Please see attached proposal layout in NEW FILES folder at PLANS-PERMITS Subfolder - Please update the legend and callouts and reflect all the existing equipment in plans. - The current roof material is Slate which is considered as DQ and will have a reroof to Metal. Please change the Roof Material to Metal Roof with S5 protea bracket attachment. Please reflect the correct illustration in Structural page.	New layout reflected. Updated legend. Metal roof updated. Structural page fixed.	PV.02, PV.03, PV.04, PV.06, PVBOM
Rev1	- Please align the panels in the roof plane just like the proposal since it was slightly tilted from the initial plans - Please reflect 3 utility meters in SLD. Please change the POI to line side tap at (E)MBE (OWNER). Please see attached reference of the (E)MBE in NEW FILES folder at PLANS-PERMITS Subfolder - Please reflect the meter number for this project (10045157)	Layout fixed, 3 utility meter fixed. Interconnection changed. Meter number fixed.	PV.02, PV.03, PV.06
Rev1	- Please reflect the correct north arrow orientation in the diagram of the signage and placard page - Please update BOM	Azimuth fixed, BOM added.	PV.02,PVBOM
Rev2	Please reflect Main Service Disconnect, the one with 50A Breaker not Main Service panel in SLD. Please see attached reference in NEW FILES folder at PLANS-PERMITS Subfolder.	Reflected Main Service Disconnect in SLD.	PV05

Rev2	Please reflect the correct MCB rating of the MSP in SLD. which is based from the survey photo.	Reflected correct MCB rating of MSP in SLD.	PV05
Rev2	Please revise the equipment location. Please see attached reference in NEW FILES folder at PLANS-PERMITS Subfolder.	Updated equipment location in plan.	PV02 PV03 PV06
Rev3	07/17 PA- Half re-roof needs to be indicated on plans asap before EOD monday.	As per the confirmation on gchat. We just have to note. Notes has been added to PV plan.	PV01 PV03 PV04
Rev4	-re-roof will be Asphalt shingles rather than a metal roof. The reroof will be done only on roofs with solar modules. The attachment will also be revised to HUG mounts. Thank you.	-Reroofed, datas with solar fixed. Attahment added to ironrdige hugs	PV.01 PV.02, PV.03, PV.04, PV.03, PV.06, PVBOM

The following items have been included with this response package:

- ☐ Revised plan set dated 7/22/2026
- ☐ Structural calculations (if applicable)
- ☐ Product specification sheets

We trust these revisions and responses address all outstanding review items. Should you require any additional information or clarification, please do not hesitate to contact us. Thank you for your time and continued collaboration.

Sincerely,



GENERAL NOTES

- 1. NOTIFY LOCAL UTILITY PROVIDER BEFORE ACTIVATION OF ANY PV INSTALLATION.
- 2. THIS PROJECT SHALL COMPLY WITH LOCAL ORDINANCES.
- 3. PROPER ACCESS AND WORKING CLEARANCE WILL BE PROVIDED.
- 4. ELECTRICAL WORK SHOWN ON PLANS WILL BE COMPLETED BY UNDERSIGNED.
- 5. PV EQUIPMENT COMPLIES WITH UL2703, UL1741, AND UL1703.
- 6. SEAL ROOF PENETRATIONS WITH PROPERLY RATED SEALANT (E.G., CHEM LINK M-1, GEOCEL 2300 OR EQUIVALENT).
- 7. THE SYSTEM WILL NOT BE INTERCONNECTED UNTIL APPROVAL FROM JURISDICTION AND UTILITY.
- 8. THE SOLAR PV INSTALLATION SHALL NOT OBSTRUCT ANY ROOF VENTS.
- 9. INSTALL SUPPLEMENTAL GROUNDING ELECTRODE IF MAIN PANEL LACKS GROUNDING.
- 10. GROUND EACH MODULE USING UL2703 OR UL1703 APPROVED CONNECTIONS.
- 11. MAX HEIGHT OF MODULES OFF OF ROOF FACE : <6".
- 12. INVERTER IS UNGROUNDED PER 690.35.
- 13. MODULES CONFORM TO AND ARE LISTED UNDER UL 1703.
- 14. INVERTER CONFORM TO AND IS LISTED UNDER UL 1741.
- 15. EQUIPMENT TO BE LISTED, LABELED, AND INSTALLED PER NEC AND MANUFACTURER'S INSTRUCTIONS.
- 16. CONDUITS EXPOSED TO SUNLIGHT ON ROOF MUST BE LESS THAN 7/8" ABOVE ROOF.
- 17. USE CONDUIT FOR EXPOSED WIRING OR CABLE RATED FOR EXPOSURE; TYPE NM CABLE ALLOWED IN PROTECTED LOCATIONS.

STRUCTURAL NOTES :

- 1. THESE PLANS ARE STAMPED FOR STRUCTURAL CODE COMPLIANCE OF THE ROOF FRAMING SUPPORTING THE PROPOSED PV INSTALLATION ONLY.
- 2. THESE PLANS ARE NOT STAMPED FOR WATER LEAKAGE.
- 3. PV MODULES, RACKING, AND ATTACHMENT COMPONENTS MUST FOLLOW MANUFACTURER GUIDELINES AND REQUIREMENTS.
- 4. PLEASE SEE THE ACCOMPANYING STRUCTURAL CALCULATIONS REPORT FOR ADDITIONAL INFORMATION.
- 5. PRIOR TO COMMENCEMENT OF WORK, INSTALLER TO VERIFY THE CONDITION OF THE FRAMING TO DETERMINE IF THERE IS ANY DAMAGED FRAMING THAT HAS NOT BEEN ADDRESSED IN THE APPROVED CONSTRUCTION DOCUMENTS AND NOTIFY THE E.O.R. OF ANY CONCERNS.

ROOF MOUNT SOLAR PERMIT PACKAGE

IRIS GARCIA

117 FLORIDA ST, SPRINGFIELD, MA 01109

5.330 KW DC & 4.940 KW AC GRID TIED PHOTOVOLTAIC SYSTEM

AERIAL PHOTO



SHEET INDEX

PV01	COVER SHEET
PV02	SITE PLAN
PV03	STRING & FIRE SAFETY
PV04	STRUCTURAL
PV05	ELECTRICAL SLD
PV06	SIGNAGE & PLACARD
PVBOM	BILL OF MATERIALS
SS01-SS08	SPECIFICATION SHEETS

PROJECT INFORMATION

DESIGN SPECIFICATIONS

OCCUPANCY:	R-3/U
CONSTRUCTION:	V-B
ZONING:	RESIDENTIAL
SNOW LOAD:	35 PSF
WIND EXPOSURE:	C
WIND SPEED:	115 MPH
ROOF SURFACE:	2815.7 SQ. FT.
PV COVERAGE:	274.57 SQ. FT.
OF STORIES:	THREE
FIRE SPRINKLERS:	NO

ALL WORK SHALL COMPLY WITH APPLICABLE, LOCAL, MUNICIPAL CODES, AND TO MANUFACTURERS' LISTINGS AND INSTALLATION INSTRUCTIONS.

CODE INFORMATION

TENTH EDITION 780 CMR (MASSACHUSETTS STATE BUILDING CODE)
2024 INTERNATIONAL FIRE CODE
2021 INTERNATIONAL PLUMBING CODE
2021 INTERNATIONAL MECHANICAL CODE
2021 INTERNATIONAL ENERGY CODE
2021 INTERNATIONAL RESIDENTIAL CODE
2020 NATIONAL ELECTRICAL CODE (NEC) WITH MASSACHUSETTS AMENDMENTS
ANY SPRINGFIELD CITY MUNICIPAL CODES & AMENDMENTS

ADDITIONAL NOTES

- HALF RE-ROOF NEEDED
- RE-ROOFING ALL SOLAR ARRAY AREAS WITH COMPOSITION ASPHALT SHINGLES.
- ANY ROOF AREAS THAT DO NOT HAVE SOLAR PANELS WILL NOT BE REPLACED AND WILL REMAIN WITH THE EXISTING TILE (SLATE) ROOFING.

SCOPE OF WORK

INSTALLATION OF NEW PV SYSTEM

5.330 KW DC (STC-DC)
4.940 KW AC (INVERTER)

SYSTEM COMPONENTS

MODULE:	(13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
OPINVERTER:	(13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT:	(38) IRONRIDGE HUG
RAILING:	IRONRIDGE XR10
MSP UPGRADE:	NO



STAMPED: 07/21/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)-405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY

PV SUMMARY

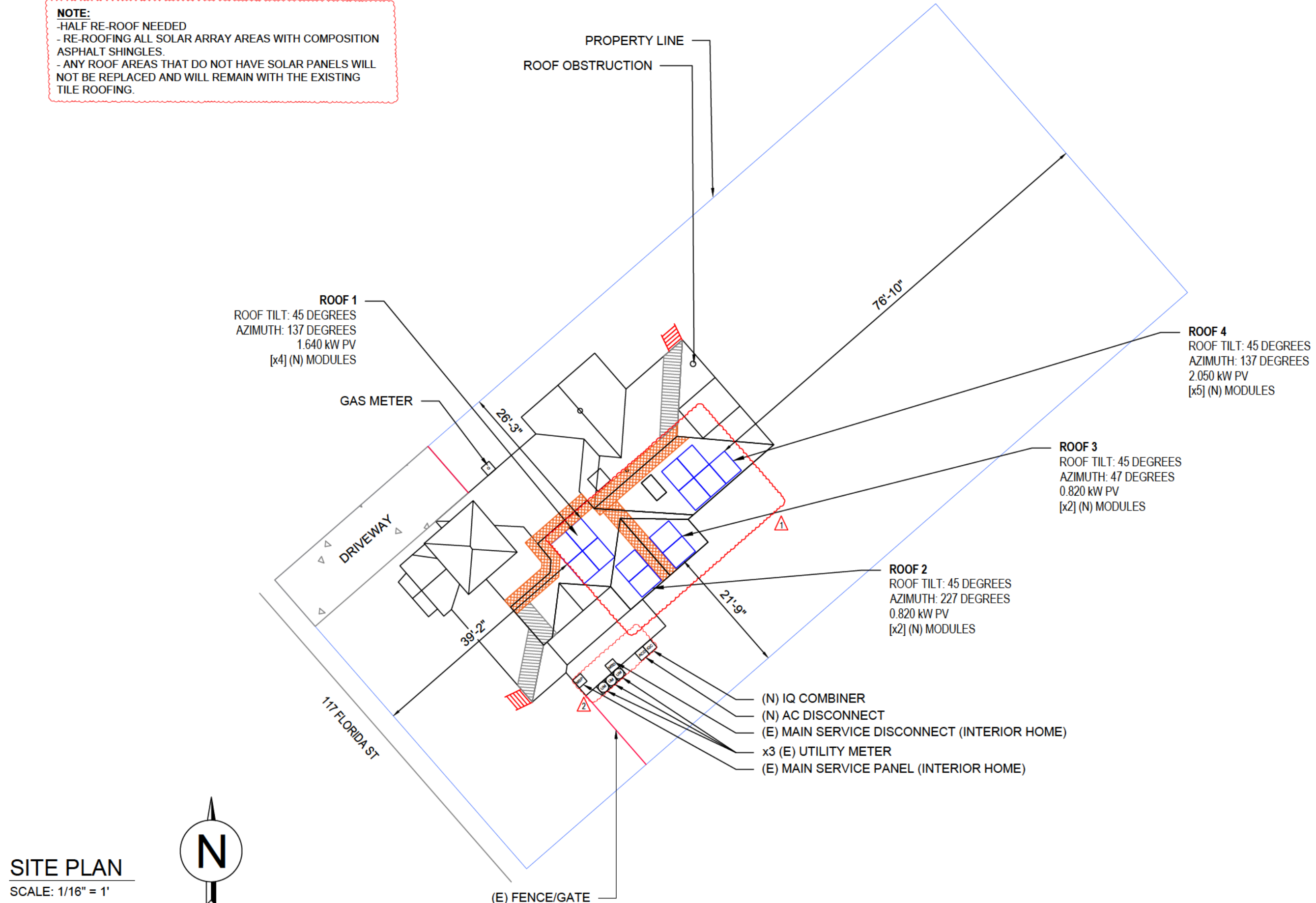
DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) IRONRIDGE HUG
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
2	DESIGN UPDATE	7/21/2026
3	DESIGN UPDATE	7/18/2026
4	DESIGN UPDATE	7/22/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
COVER SHEET	PV01

NOTE:
- HALF RE-ROOF NEEDED
- RE-ROOFING ALL SOLAR ARRAY AREAS WITH COMPOSITION ASPHALT SHINGLES.
- ANY ROOF AREAS THAT DO NOT HAVE SOLAR PANELS WILL NOT BE REPLACED AND WILL REMAIN WITH THE EXISTING TILE ROOFING.



SITE PLAN
SCALE: 1/16" = 1'



STAMPED: 07/21/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951) 405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR
1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL: info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) IRONRIDGE HUG
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
2	DESIGN UPDATE	7/21/2026
3	DESIGN UPDATE	7/18/2026
4	DESIGN UPDATE	7/22/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
SITE PLAN	PV02

LEGEND

PROPOSED CONDUIT

BR

PROPOSED STRINGING

MODULE

ROOF OBSTRUCTIONS

36" ACCESS PATHWAYS

18" ACCESS PATHWAYS

ROOF ACCESS POINT

UM

UTILITY METER

MSP

MAIN SERVICE PANEL

ACD

AC DISCONNECT

JB

JUNCTION BOX

IQC

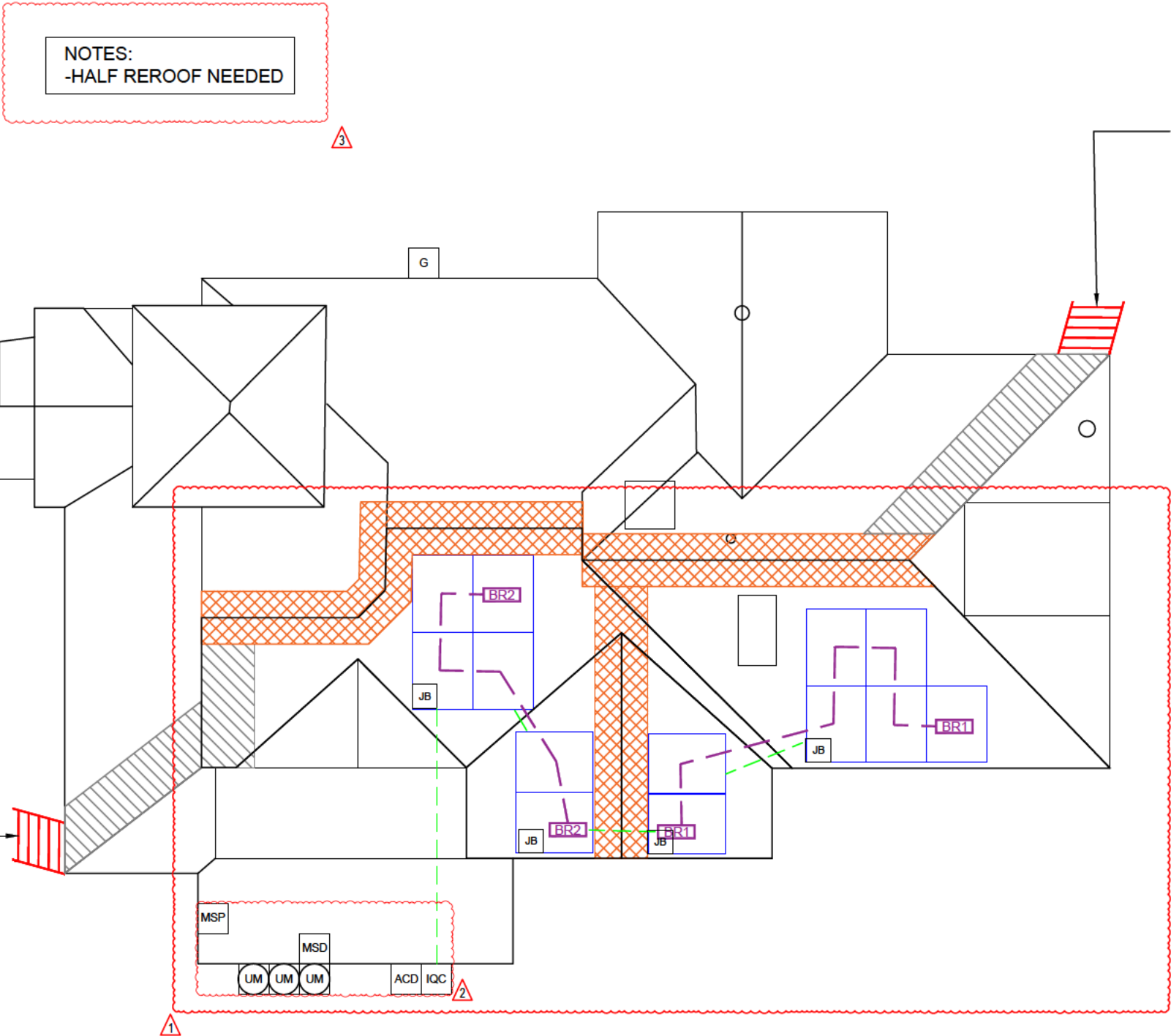
IQ COMBINER

G

GAS METER

MSD

MAIN SERVICE DISCONNECT



STRING & FIRE SAFETY

SCALE: 1/8" = 1'

ROOF AREA PV COVERAGE

ROOF SURFACE: 2815.7 SQ. FT.
PV COVERAGE: 274.57 SQ. FT.
ROOF AREA COVERED: 9.75%

NOTES:

- MINOR FIELD ADJUSTMENTS ALLOWED BASED ON ACTUAL SITE CONDITION AND MEASUREMENTS.
- THE 30 SECOND SHUTDOWN REQUIREMENT IS INCORPORATED INTO THE 2020 NEC AND UL STANDARD 1741.
- EXISTING ROOF VENT SHOULD NOT BE COVERED.

COMMONWEALTH OF MASSACHUSETTS

METHODE MANIRAGUHA

ELECTRICAL

NO. 53873

REGISTERED

PROFESSIONAL ENGINEER

Exp: 6/30/2028

STAMPED: 07/21/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.

Current Renewables Engineering

CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)-405-1733, WWW.CRENG.CO

CONTRACTOR INFO

EMPWR SOLAR

EMPWR SOLAR

1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY

PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) IRONRIDGE HUG
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
2	DESIGN UPDATE	7/21/2026
3	DESIGN UPDATE	7/18/2026
4	DESIGN UPDATE	7/22/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
STRING & FIRE SAFETY	PV03

STRUCTURAL NOTES

ROOF INFORMATION

1. RE-ROOF MATERIAL: COMP. ASPHALT SHINGLES
- EXISTING ROOF MATERIAL: TILE (SLATE)
2. ROOF SLOPE: 45 DEGREES
3. RAFTER SIZE: 2X8 IN.
4. RAFTER SPACING: 20" O.C.

MODULE INFORMATION

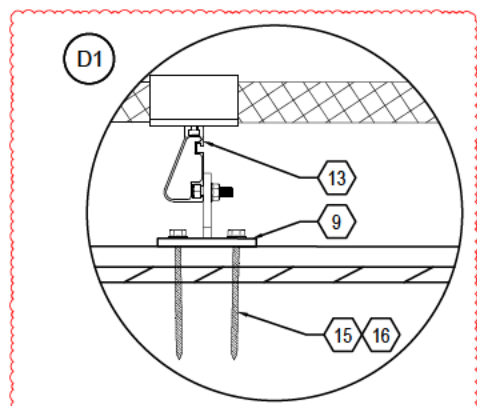
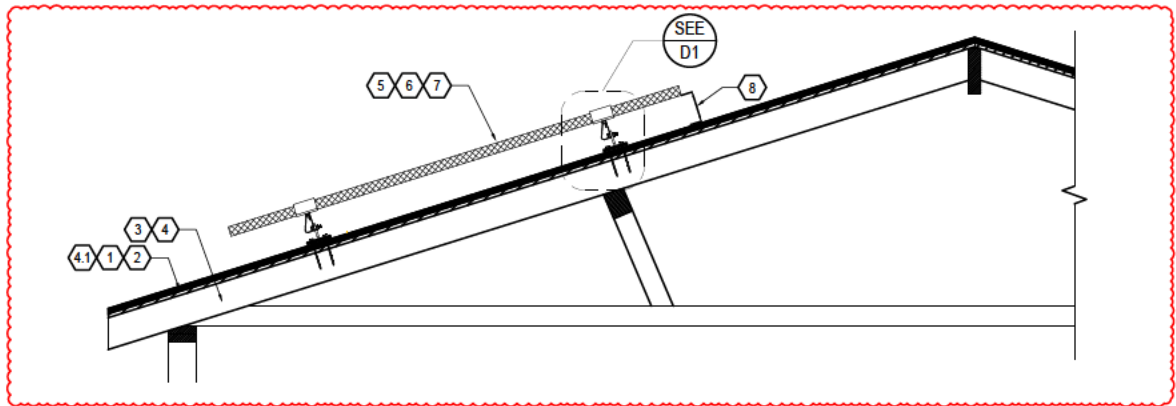
5. PV MODULE: QCELLS
- Q.PEAK DUO BLK ML-G10.C+ 410
6. DIMENSION: 74" H X 41.1" W X 1.3" D
7. WEIGHT 48.5 LBS
8. MODULE CLEARANCE: 3IN. MIN / 6 IN. MAX

ATTACHMENT & RAILING

9. ATTACHMENT: (38) IRONRIDGE HUG
10. MAX. HORIZONTAL STANDOFF: 40 IN.
11. STANDOFF STAGGERING: YES
12. MAX. VERTICAL STANDOFF: PER INSTALLATION INSTRUCTIONS
13. RAILING: IRONRIDGE XR10
- 14 MAX RAIL CANTILEVER: PER INSTALLATION INSTRUCTIONS
15. LAG BOLT SIZE: SELF DRILLING SCREW, #14, WOOD TIP
16. LAG BOLT EMBEDMENT: 2-1/2 IN.

LOAD CALCULATIONS

- APPROX. INSTALLATION AREA: 274.57 SQ. FT.
- TOTAL SYSTEM WEIGHT: 691.60 LBS.
- DISTRIBUTED WEIGHT OF ARRAY: 2.52 PSF.
- WEIGHT PER MOUNT: 18.20 LBS



NOTE: PILOT HOLES
REQUIRED FOR #14
SCREW

NOTES:
-HALF REROOF NEEDED



EXISTING ROOF: TILE (SLATE)
RE-ROOF MATERIAL:
COMP. ASPHALT SHINGLES

2X8 RAFTERS
@20" O.C.

STRUCTURAL
SCALE: NTS



Exp: 6/30/2028

STAMPED: 07/21/2026

THESE DRAWINGS ARE PROTECTED BY U.S. COPYRIGHT LAW. ANY UNAUTHORIZED USE IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT FROM CURRENT RENEWABLES ENGINEERING INC.



CURRENT RENEWABLES ENGINEERING INC.
3800 LIME ST BUILDING 2, RIVERSIDE CA 92501
PHONE: (951)-405-1733, WWW.CRENG.CO

CONTRACTOR INFO



EMPWR SOLAR

1007 JOHNNIE DODDS BLVD SUITE 111,
CHARLESTON, SC 29464
PHONE: 854-999-4837
EMAIL : info@empwrsolar.com

CUSTOMER INFO

NAME	IRIS GARCIA
ADDRESS	117 FLORIDA ST, SPRINGFIELD, MA 01109
APN NO.	SPRIS05220P0064
AHJ	SPRINGFIELD CITY
UTILITY	EVERSOURCE ENERGY

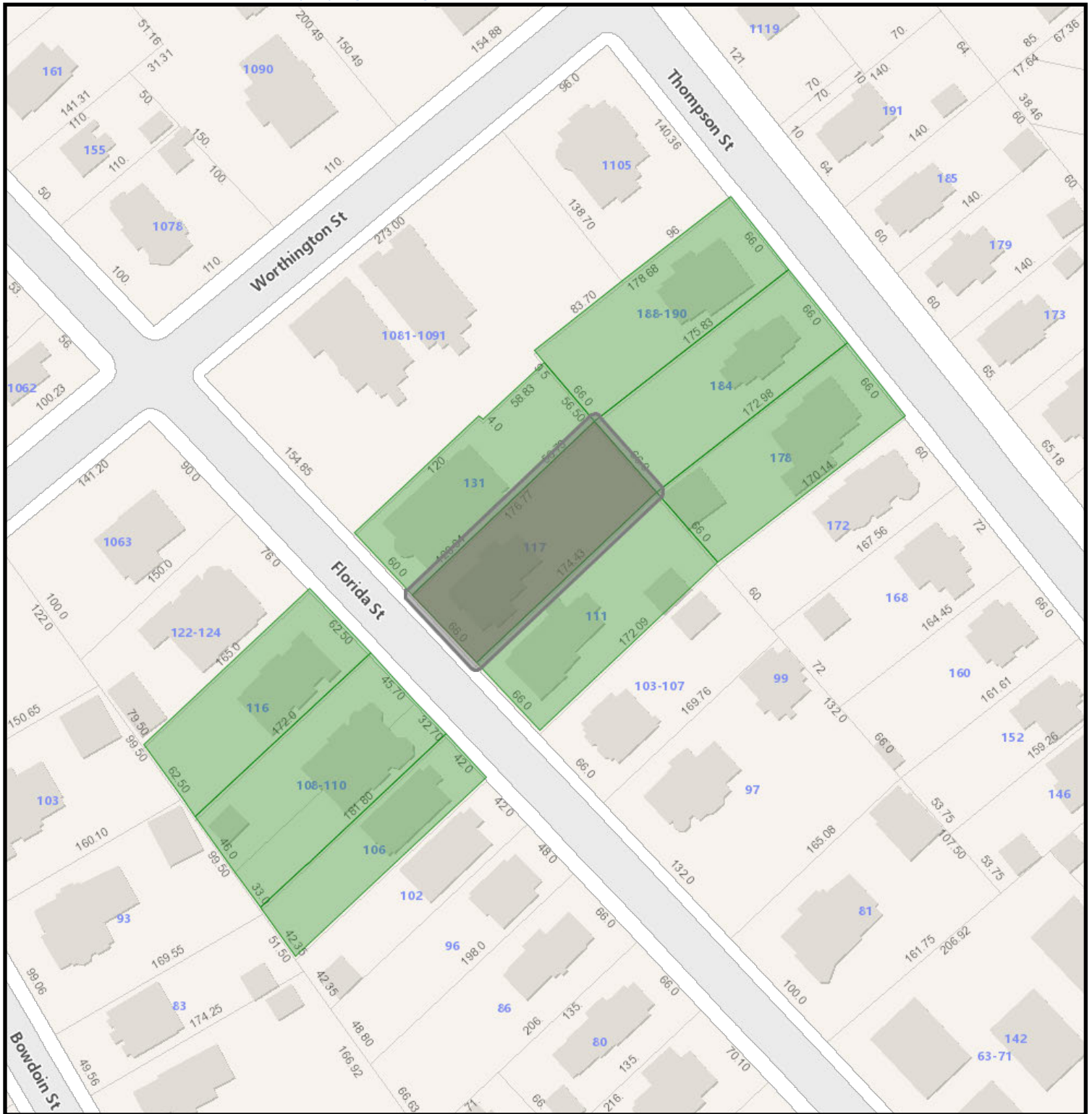
PV SUMMARY

DC SIZE: 5.330 KW
AC SIZE: 4.940 KW
MODULES : (13) QCELLS Q.PEAK DUO BLK
ML-G10.C+ 410
INVERTER : (13) ENPHASE IQ8HC-72-M-DOM-US
MOUNT: (38) IRONRIDGE HUG
RAILING: IRONRIDGE XR10

REV.	DESCRIPTION	DATE
2	DESIGN UPDATE	7/21/2026
3	DESIGN UPDATE	7/18/2026
4	DESIGN UPDATE	7/22/2026

PROJECT ID	PS-000281216
DRAWN BY	AJV
SHEET SIZE	ANSI B 11" X 17"

SHEET NAME	SHEET #
STRUCTURAL	PV04

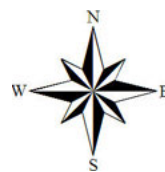


117 Florida Street GIS Map

7/23/2026 8:01:56 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.

052200022
ALEXANDER MICHAEL T &
106 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

115250040
NORFLET HENRIETTA
190 THOMPSON ST
SPRINGFIELD, MA 01109

052200024
RIVERA KARLA M
110 FLORIDA ST
SPRINGFIELD, MA 01109

052200063
SRK REALTY LLC
5 LAUREL RIDGE LN
SHREWSBURY, MA 01545

052200025
YELLOWBRICK PROPERTY
P O BOX 91199
SPRINGFIELD, MA 01139



Springfield Historical Commission



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

APPLICATION CHECKLIST

PROPERTY ADDRESS: 72 Firglade 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: <i>Forest Park Heights</i>	DECISION:
DATE RECEIVED: <i>July 13, 2026</i>	DECISION DATE:
HEARING DATE: <i>August 6, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>July 21, 2026</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>July 21, 2026</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: 72 Firglade Ave, 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: 72 Firglade Ave, Springfield, MA 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Keith Olenchak		
OWNER ADDRESS: ☐ Check box if same as property address 72 Firglade Ave, Springfield, MA 01108		
OWNER PHONE NUMBER:	REPRESENTATIVE/CONTRACTOR NAME: EVERLAST ENERGY LLC	
OWNER EMAIL ADDRESS:	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE:	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Installation of Solar system - 19 panels with Micro inverters - No battery system		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.

07/13/2026

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?

☐
☒

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

NUMBER OF SOLAR POWERED PANELS:

19

SOLAR MANUFACTURER:

REC SOLAR

LOCATION OF SOLAR POWERED PANELS (e.g. north side of roof):

ROOF MOUNT

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):

SIDE

PROPOSED COLOR OF CONDUIT (e.g. silver, same as house):

iRoofA®

Instant Roof Framing Analysis

www.iroofa.solar

tel: 540.313.5317 - email: info@iRoofA.solar

STRUCTURAL ANALYSIS

for the

ROOFTOP PV SOLAR INSTALLATION

Project: Keith Olenchak, 72 Firglade Ave, Springfield, MA 01108

Prepared for:



EVERLAST ENERGY & ROOFING
135 Sheldon Rd - Manchester, CT 06042-2386

Calculation Report Index

<u>Pages</u>	<u>Description</u>
1	Cover
	<i>Roof Structural Calculations for PV Solar Installation</i>
6-9	Location: MP 1
10-10	Snow Loading Calculations
2-5	Loading Summary

Project No: 66.437563, Rev. 0

Report Date: 06/17/2026

Report Prepared by:



Richard Pantel, P.E.
MA License No. 49678
Structural

V260610_2
ID.0689 15:52

Loading Summary

Exposure and Occupancy Categories		
B		Exposure Category (ASCE 7-16 Table 26.7.3, Page 274)
II		Building Use Occupancy / Risk Category (ASCE 7-16 Table 1.5-1, Page 5)

Wind Loading:			
v	120	mph	SPRINGFIELD, MA - 780 CMR: MA Wind / Snow / Seismic Amendment Values - IBC 2021
qz	21.93	psf	Velocity qz, calculated at height z

Snow Loading			
pg	35.00	psf	Ground Snow Load pg (ASCE 7-16 Table 7.2-1, Page 56-60)
Total Snow Load			
ps	22.05	psf	Effective snow load on roof and modules

Module Data			
REC Solar: REC460AA Pure-RX			
Dimensions	mm	ft	in
Length	1,728	5.67	68.03
Width	1,205	3.95	47.44
Area (m^2, ft^2)	2.1	22.41	
Weight	kg	lb	psf load
Module	23.40	51.59	2.30

Roof Panel (Cladding) Loading Summary		Module Loading Summary			
Support Point Loads		Upward	Upward	Upward	Downward
Roof Zones		1,2e,2r	2n,3r	3e	All
Net load per module	lb	-30	-40	-53	107

Positive values indicate net downward force

Primary Stanchion: K2-Systems Multi Mount - Rafter, 2 Bolts

StanchionFastener Pull-out and Spacing Calculations				
Framing spacing	ft	1.50		
Rails / Module	ea	2		
Max proposed stanchion span	ft	3.00		
# fasteners per stanchion		2		
Bolt thread embedment depth	in	2.50		
Safety Factor		1.10		
Pull-out for #14 threaded fasteners	lb/in	134	lb per inch of embedment	
Factored max fastener uplift capacity	lb	607		
Fastener details	Material	Stainless	Size	#14
Max stanchion uplift capacity	lb	1065	Predrill hole 0.12" dia or use self tapping	
Max support point uplift capacity	lb	607		

Roof Zones		1,2e,2r	2n,3r	3e
Net lift per module	lb	30	40	53
Min tot bolt thread embedment depth req'd	in	0.13	0.16	0.22
Net uplift pressure	7. 0.60D - 0.6W	psf	-7.14	-9.34
Allowable lift area / support point	sf	84.98	65.00	48.51
Max rail span per support spacing	ft	3.00	3.00	3.00

Landscape Modules				
Length along rafter	ft	3.95		
Lift calc'ed max stanchion EW spacing	ft	> 6	> 6	> 6
Max stanchion EW spacing	ft	3.00	3.00	3.00
Maximum module area / support point	sf	7.91	7.91	7.91
Factored lift per support point	lb	-56	-74	-99

Portrait Modules				
Length along rafter	ft	5.67		
Lift calc'ed max stanchion EW spacing	ft	> 6	> 6	> 6
Max stanchion EW spacing	ft	3.00	3.00	3.00
Maximum module area / support point	sf	8.50	8.50	8.50
Factored lift per support point	lb	-61	-79	-106

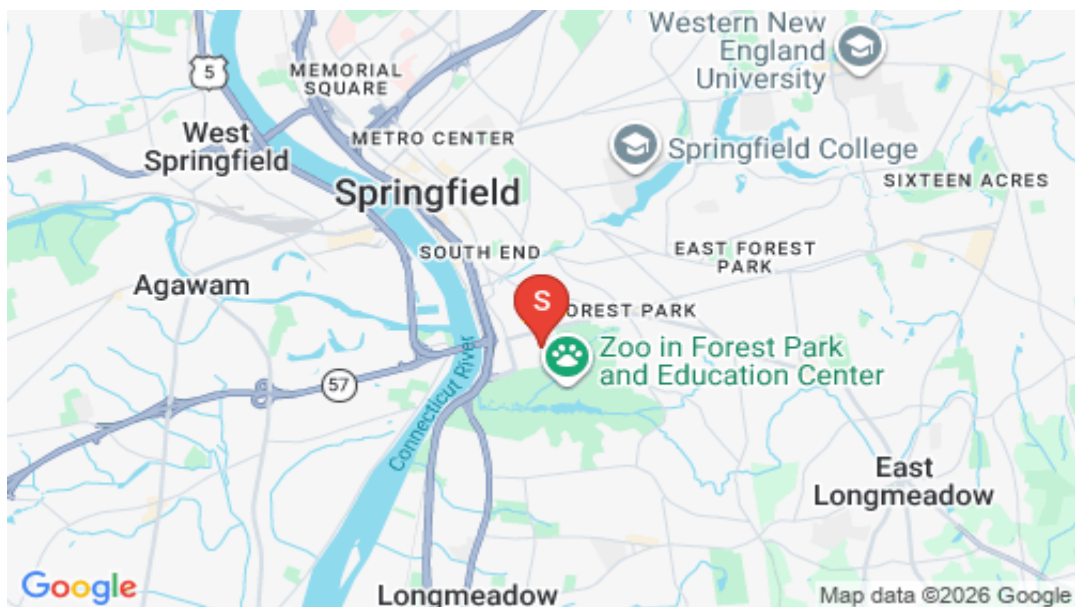
Stanchion support threaded fastener sizes are indicated in the Module Loading Summary table above. Lift forces were determined from GCp and other coefficients contained in the ASCE nomographs

Conclusions

We were asked to review the roof of Keith Olenchak, located at 72 Firglade Ave, Springfield, MA, by EVERLAST ENERGY & ROOFING, to determine its suitability to support a PV solar system installation.

Building design plans were used in the preparation of the roof structural calculations combined with the PV solar module locations shown on the PV solar roof layout design prepared by EVERLAST ENERGY & ROOFING. Loads are calculated to combine the existing building and environmental loads with the proposed new PV array loads.

The K2-Systems CrossRail 44-X racking and K2-Systems Multi Mount - Rafter, 2 Bolts stanchions were selected for this project by EVERLAST ENERGY & ROOFING. The racking and support stanchions shall be placed as shown on their plans, dated 06/12/2026, and shall be fastened to the roof framing using fastener sizes indicated in this report. Rack support spacing shall be no more than that shown above. Note that support points for alternating rows shall share the same rafter. Intermediate rows shall move the support points laterally to the next rafter.



Google Location Map

Framing Summary

	Ex. Framing	Total Ex DL
MP 1: 1.50" x 5.50" w/ 22.50' span, 40° slope @ 18" OC. Ex. supports @ 7.00'	1.05 psf	6.20 psf
* Wood species used in these calculations assumes spruce, pine or fir, #2 grade.		

Based upon the attached calculations, the existing roof's framing system is capable of supporting the additional loading for the proposed PV solar system along with the existing building and environmental loads. No supplemental roof framing structural supports are required. No further structural alterations or modifications are needed to support the system..

Wood fastener notes: 1) Fastener threads must be embedded in the side grain of a roof support structural member or other structural member integrated into the building's structure. 2) Fastener must be located in the middle third of the structural member. 3) Install fasteners with head and where required, washer, flush to material surface (no gap). Do not over-torque.

References and Codes:

- 1) ASCE 7-16 Minimum Design Loads for Buildings and Other Structures
- 2) 2021 IBC with MA specific amendments
- 3) MA residential codes (780 CMR, 2021 IRC) w/ amendments
- 4) American Wood Council, NDS 2024, Table 12.2A, 12.3.3A.
- 5) American Wood Council, Wood Structural Design, 1992, Figure 6.

Geometric Data				
Θ	deg.	40.0	Angle of roof plane from horizontal, in degrees	
ω	deg.	0.0	Angle the solar panel makes with the roof surface	
L	ft.	33.00	Length of roof plane, in feet (meters)	
W	ft.	18.24	Plan view width of roof plane, in feet (meters)	
h	ft.	27.07	Average height of roof above grade, in feet (meters)	

Roof Wind Zone Width			
	use, a =	3.00	ft

Wind Velocity Pressure, q_z evaluated at the height z						
q_z =	21.93	psf	$V_{asd} q_z$ =	13.17	psf	Basic wind pressure
V=	120	mph				

Framing Data		
Wood type	US Spruce	
Wood source, moisture content	White 0.12%	
# Framing Members / Support		1
Rafter / Truss OC	in	18.00
Member Total Length	ft	22.50

2	# Rafters / Rack Support Width
1.50	Rack Support Spacing (ft)
36.00	Max. Rack Support Spacing (in)
4	Max # of mod's / Rafter

Member Properties		Member
Name		(1)1.5x5.5
Repetitive Member Factor (Cr)		1.15
Max Shear perp. to grain	psi	730
Max Fb - Shear parallel to grain	psi	1,490

* Mem properties based upon field measurements

Rafter

18.00	Ex Collar tie OC
-------	------------------

Module Data			
Weight	kg	lb	psf load
Module	23.40	51.59	2.30
4 Stanchions	0.91	2.0	0.09

Existing Dead Loads	Units	Value	Description
Framing Member	psf	1.05	1.57 plf / 1.50 ft spacing
Roof Deck & Surface Material*	psf	5.15	0.50 in. Plywood w/ Shingles, Asphalt, Architectural (Typical)
Sum Existing DL Roof Loads	psf	6.20	

* Roof surface: Shingles, Asphalt, Architectural (Typical)

Rack Support Spacing and Loading			
Across rafters	ft	1.5	
Along rafter slope	ft	5.7	
Area / support point	sf	4.3	
Uphill gap between modules	in	1.0	0.08 ft Support from mod. Edge (in) 12.00

Member Total Length	ft	22.50		* Collar tie height @ 7.00' AFF max height. Adjust to match lowest adjoining roof's collar tie as needed
Maximum member free span	ft	11.61	Rafter above Collar tie	
Rafter segment to calc	ft	11.61	Free span	
Deflection Ratio		180	Use max delta 1/x for deflection	

Eave Overhang Length past Rafter Plate	1.00	ft
Uphill Distance from Eave to Lowest Support	1.25	ft

ASCE 7-16 Method for Calculating Uplift on PV Modules

Notation
 Lp = Panel chord length.
 p = uplift wind pressure
 ya = Solar panel pressure equalization factor, defined in Fig. 29.4-8.
 γE = Array edge factor as defined in Section 29.4.4.
 θ = Angle of plane of roof from horizontal, in degrees.

29.4.4 Rooftop Solar Panels Parallel to the Roof Surface on Buildings of All Heights and Roof Slopes.
 Θ >= 7 deg TRUE

Min.d1: Exposed **FALSE**
 Max.d1: Exposed **TRUE**
 1.5(Lp) = 5.93
 γE = 1.5
 ya = 0.66

Use **EXPOSED** for uplift calculations

p = qh(GCp) (γ_E) (γ_a) (lb/ft²) (29.4-7)

Zones	1,2e,2r	2n,3r	3e
GCp	-1.45	-1.73	-2.14
p, Windload (psf)	-18.90	-22.56	-27.85

Downward, Zones All Zones

GCp	0.76
-----	------

ASCE 7-16 Chapter 2 Combinations of Loads, Table 2.4, Page 8 (in psf)				
Zones	1,2e,2r	2n,3r	3e	All Zones
2.2 SYMBOLS AND NOTATION	<i>Module Upward</i>	<i>Module Upward</i>	<i>Module Upward</i>	<i>Downward</i>
D = dead load of PV Module + Stanchion	2.39	2.39	2.39	2.39
S = snow load	22.05	22.05	22.05	22.05
W = Vasd Windload	-18.90	-22.56	-27.85	10.01

2.4 Combining Nominal Loads Using Allowable Stress Design (in psf)				
2.4.1 Basic Combinations. Loads listed herein shall be considered to act in the following combinations; whichever produces the most unfavorable effect in the building, foundation, or structural member being considered. Effects of one or more loads not acting shall be considered.				
Combination Formulae	<i>Upward</i>	<i>Upward</i>	<i>Upward</i>	<i>Downward</i>
Use this loading combination for DOWNWARD for Proposed PV Dead Load				
6. D + 0.75L - 0.75(0.60W) + 0.75(Lr or S or R)	24.44	24.44	24.44	28.95
Module Support point load (lb)	104	104	104	123
Cr Factored Module Support point load (lb)	90	90	90	107

Use this loading combination for UPWARD for Proposed PV Dead Load				
7. 0.60D - 0.6W	-7.14	-9.34	-12.51	7.00
Module Support point load (lb)	-30	-40	-53	30

DOWNWARD

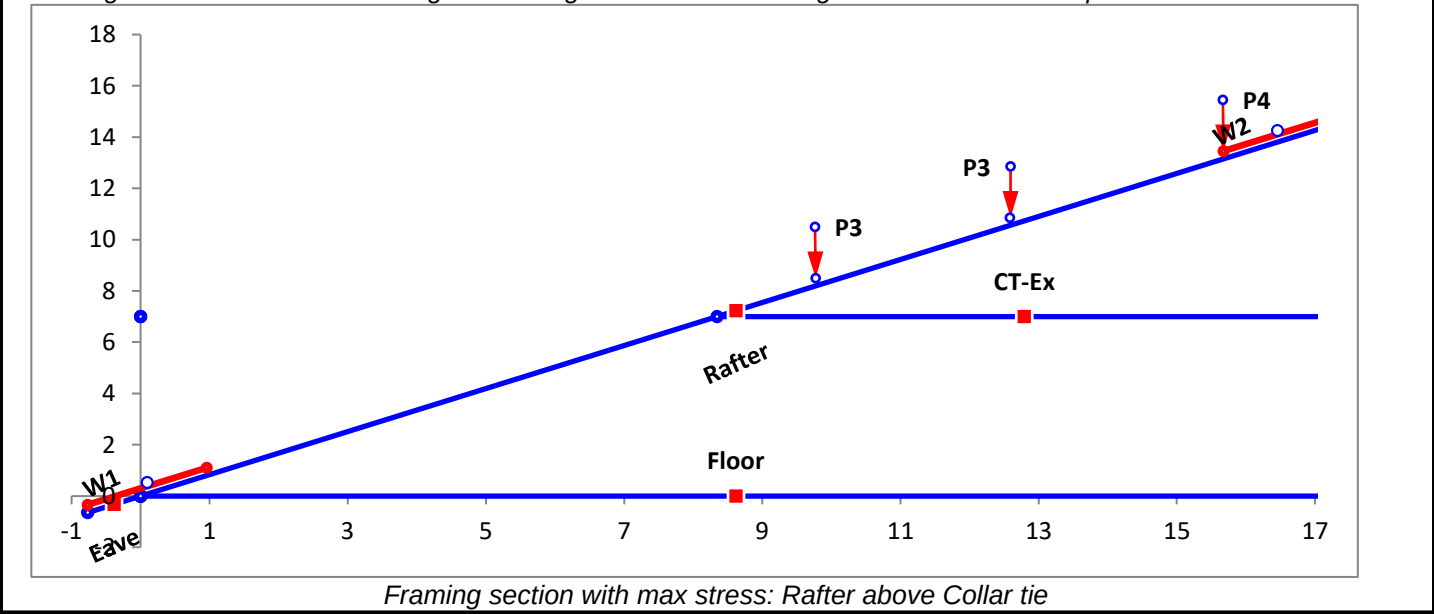
Presume loading directly over member.

Combined Dead and Wind Pressure Downward Loading					
Rafter above Collar tie					
PV Module Row	Point load loc's from Left support		Module Support Point Load	Comment	Module Orientation
	<i>ft from left</i>		<i>lb</i>		
1	1.25			Support outside of max stressed section	Portrait
1	4.92			Support outside of max stressed section	Portrait
2	7.00			Support outside of max stressed section	Portrait
2	10.67			Support outside of max stressed section	Portrait
3	12.76		107		Portrait
3	16.42		107		Portrait
4	18.51			Support placed on adjoining rafter	Landscape
4	20.46		107		Landscape

5. Simple Beam - Exposed Roof Snow Load - Above and Below PV				
Parameter	Units	Total	Allowed	Check
Deflection @ mid span	in	0.05	0.77	OK
M at mid span	lb-ft	47	4,369	OK

Sum Downward Loading Conditions: PV; Beam DL; Exposed Roof Environmental Load				
Parameter	Units	Total	Allowed	Check
Deflection	in	0.66	0.77	OK
Percent Max Deflection	%	86%	100%	OK
Moment	lb-ft	1,160	4,369	OK
fs	psi	1,840	6,933	OK

* Loading includes member self weight & roofing materials. w loading = wind & snow on exposed areas



Snow Loading Analysis

where:

Fully Exposed

Exposure category

Ce

=

0.9

Exposure Factor, Ce (ASCE 7-16 Table 7.3-1, Page 61)

Ct

=

1.0

Thermal Factor, Ct (ASCE 7-16 Table 7.3-2, Page 61)

Is

=

1.0

Snow Importance Factor, Is (ASCE 7-16 Table 1.5-2, Page 5)

pg

=

35.00

Ground Snow Load pg (ASCE 7-16 Table 7.2-1, Page 56-60)

pf

=

0.7CeCtIsPg

Flat Roof Snow Load, pf (ASCE 7-16 Table 7.3-1, Page 61)

pf

=

22.05

psf

but where Pf is not less than the following:

Minimum Snow Load pm (ASCE 7-16 Table 7.3.4, Page 62)

pm

=

20

psf. When Pg > 20 psf, then use Pf = 20 psf x Is

pf

=

22.05

psf. Resultant Snow pressure to be used with Roof slope factor below

ps

=

Cspf

Sloped Roof Snow Load ps (ASCE 7-16 Table 7.4, Page 61)

Roof Type Warm Roofs

Roof slope factor Cs for Warm Roofs, where Ct = 1.0
Roof surface condition = Slippery Roof

Cs

=

1.00

Roof Slope Factor, Cs (ASCE 7-16 Table 7.4-1a, Page 62)

Total Snow Load

ps

=

22.05

psf

Roof snow load

PHOTOVOLTAIC ROOF MOUNT SYSTEM

19 MODULES-ROOF MOUNTED - 8.740 kW DC, 7.220 kW AC
72 FIRGLADE AVE, SPRINGFIELD, MA 01108



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

PROJECT DATA

PROJECT ADDRESS 72 FIRGLADE AVE,
SPRINGFIELD, MA 01108

OWNER: KEITH OLENCHAK
DESIGNER: ESR

METER NO # 10 065 479

PARCEL ID: 051400013

SCOPE: 8.740 KW DC ROOF MOUNT
SOLAR PV SYSTEM WITH
19 REC SOLAR: REC460AA PURE-RX 460W PV
MODULES.
19 ENPHASE: IQ8X-80-M-DOM-US (240V)
MICROINVERTERS

APPARENT RATED POWER: 7.220 KVA
MAXIMUM APPARENT RATED POWER: 7.296 KVA

DESIGN CRITERIA

WIND SPEED: 120MPH
SNOW LOAD: 35PSF
EXPOSURE CATEGORY : B

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

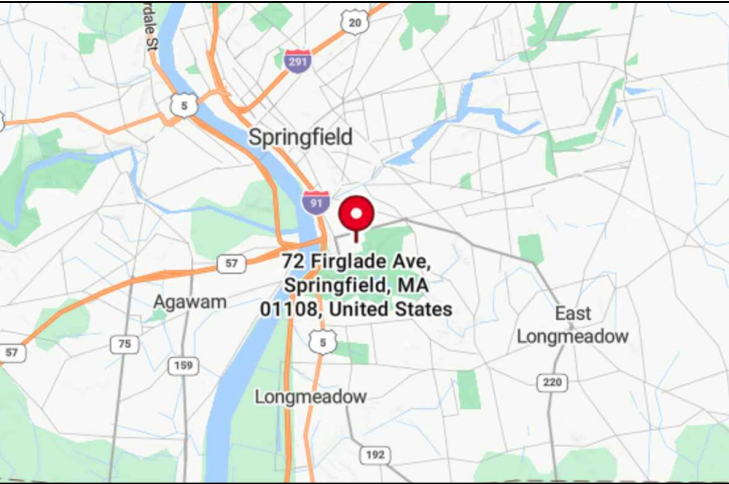
SHEET INDEX

PV-1	COVER SHEET
PV-2	PLOT PLAN WITH ROOF PLAN
PV-3	ROOF PLAN & MODULES
PV-4	ELECTRICAL PLAN
PV-5	ATTACHMENT DETAIL
PV-6	ELECTRICAL LINE DIAGRAM
PV-7	WIRING CALCULATION
PV-8	LABELS
PV-9	PLACARD
PV-10	MICROINVERTER CHART
PV-11+	EQUIPMENT SPECIFICATIONS

GENERAL NOTES

- ALL COMPONENTS ARE UL LISTED AND NEC CERTIFIED, WHERE WARRANTED.
- THE SOLAR PV SYSTEM WILL BE INSTALLED IN ACCORDANCE WITH ARTICLE 690 OF THE NEC 2023.
- THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND PV SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- ALL CONDUCTORS OF A CIRCUIT, INCLUDING THE EGC, MUST BE INSTALLED IN THE SAME RACEWAY, OR CABLE, OR OTHERWISE RUN WITH THE PV ARRAY CIRCUIT CONDUCTORS WHEN THEY LEAVE THE VICINITY OF THE PV ARRAY.
- WHERE METALLIC CONDUIT CONTAINING DC CONDUCTORS IS USED INSIDE THE BUILDING, IT SHALL BE IDENTIFIED AS "CAUTION: SOLAR CIRCUIT" EVERY 10FT.
- HEIGHT OF THE AC DISCONNECT SHALL NOT EXCEED 6'-7" PER NEC CODE 240.24.
- A GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 2023 690.47 AND 250.50 THROUGH 60 AND 250-166 SHALL BE PROVIDED. PER NEC GROUNDING ELECTRODE SYSTEM OF EXISTING BUILDING MAY BE USED AND BONDED TO THE SERVICE ENTRANCE. IF EXISTING SYSTEM IS INACCESSIBLE OR INADEQUATE A SUPPLEMENTAL GROUNDING ELECTRODE WILL BE USED AT THE INVERTER LOCATION CONSISTING OF A UL LISTED 8 FT. GROUND ROD WITH ACORN CLAMP. GROUNDING ELECTRODE CONDUCTORS SHALL BE NO LESS THAN #8 AWG AND NO LARGER THAN #6 AWG COPPER AND BONDED TO THE EXISTING GROUNDING ELECTRODE TO PROVIDE FOR A COMPLETE SYSTEM.
- PHOTOVOLTAIC MODULES ARE TO BE CONSIDERED NON-COMBUSTIBLE.
- PHOTOVOLTAIC INSTALLATION WILL NOT OBSTRUCT ANY PLUMBING. MECHANICAL, OR BUILDING ROOF VENTS.
- ALL WIRING MUST BE PROPERLY SUPPORTED BY DEVICES OR MECHANICAL MEANS DESIGNED AND LISTED FOR SUCH USE. WIRING MUST BE PERMANENTLY AND COMPLETELY HELD OFF THE ROOF SURFACE.
- ALL SINAGE TO BE PLACED IN ACCORDANCE WITH THE LOCAL BUILDING CODE. IF EXPOSED TO SUNLIGHT, IT SHALL BE UV RESISTANT. ALL PLAQUES AND SINAGE WILL BE INSTALLED AS REQUIRED BY THE NEC AND AHJ.
- INVERTER(S) USED IN UNGROUNDED SYSTEM SHALL BE UL 1741 LISTED.
- THE INSTALLATION OF EQUIPMENT AND ALL ASSOCIATED WIRING AND INTERCONNECTION SHALL BE PERFORMED ONLY BY QUALIFIED PERSONS [NEC 690.4(C)]
- ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R RATED (OR BETTER), INCLUDING ALL ROOF MOUNTED TRANSITION BOXES AND SWITCHES.
- ALL EQUIPMENT SHALL BE PROPERLY GROUNDED AND BONDED IN ACCORDANCE WITH NEC ARTICLE 250.
- SYSTEM GROUNDING SHALL BE IN ACCORDANCE WITH NEC 690.41.
- PV SYSTEM CIRCUITS INSTALLED ON OR IN BUILDINGS SHALL INCLUDE A RAPID SHUTDOWN FUNCTION IN ACCORDANCE WITH NEC 690.12
- DISCONNECTING MEANS SHALL BE LOCATED IN A VISIBLE, READILY ACCESSIBLE LOCATION WITHIN THE PV SYSTEM EQUIPMENT OR A MAXIMUM OF 10 FEET AWAY FROM THE SYSTEM [NEC 690.13(A)]
- ALL WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC 690.31
- WORK CLEARANCES AROUND ELECTRICAL EQUIPMENT WILL BE MAINTAINED PER NEC 110.26(A)(1), 110.26(A)(2) AND 110.26(A)(3).
- ROOFTOP MOUNTED PHOTOVOLTAIC PANELS AND MODULES SHALL BE TESTED, LISTED & IDENTIFIED IN ACCORDANCE WITH UL1703
- ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT EXPANSION JOINTS AND ANCHOR CONDUIT RUNS AS REQUIRED PER NEC.

VICINITY MAP



HOUSE PHOTO



CODE REFERENCES

PROJECT TO COMPLY WITH THE FOLLOWING:

2021 MASSACHUSETTS 10TH EDITION CODE 780 CMR FIRE CODE
2021 MASSACHUSETTS 10TH EDITION CODE 780 CMR BUILDING CODE
2021 MASSACHUSETTS 10TH EDITION CODE 780 CMR RESIDENTIAL CODE
2023 EDITION OF THE NATIONAL ELECTRICAL CODE (NFPA 70)
2021 MASSACHUSETTS 10TH EDITION CODE 780 CMR ENERGY CONSERVATION CODE

REVISIONS

DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY

ESR

SHEET NAME

COVER SHEET

SHEET SIZE

ANSI B
11" X 17"

SHEET NUMBER

PV-1

PROJECT DESCRIPTION:

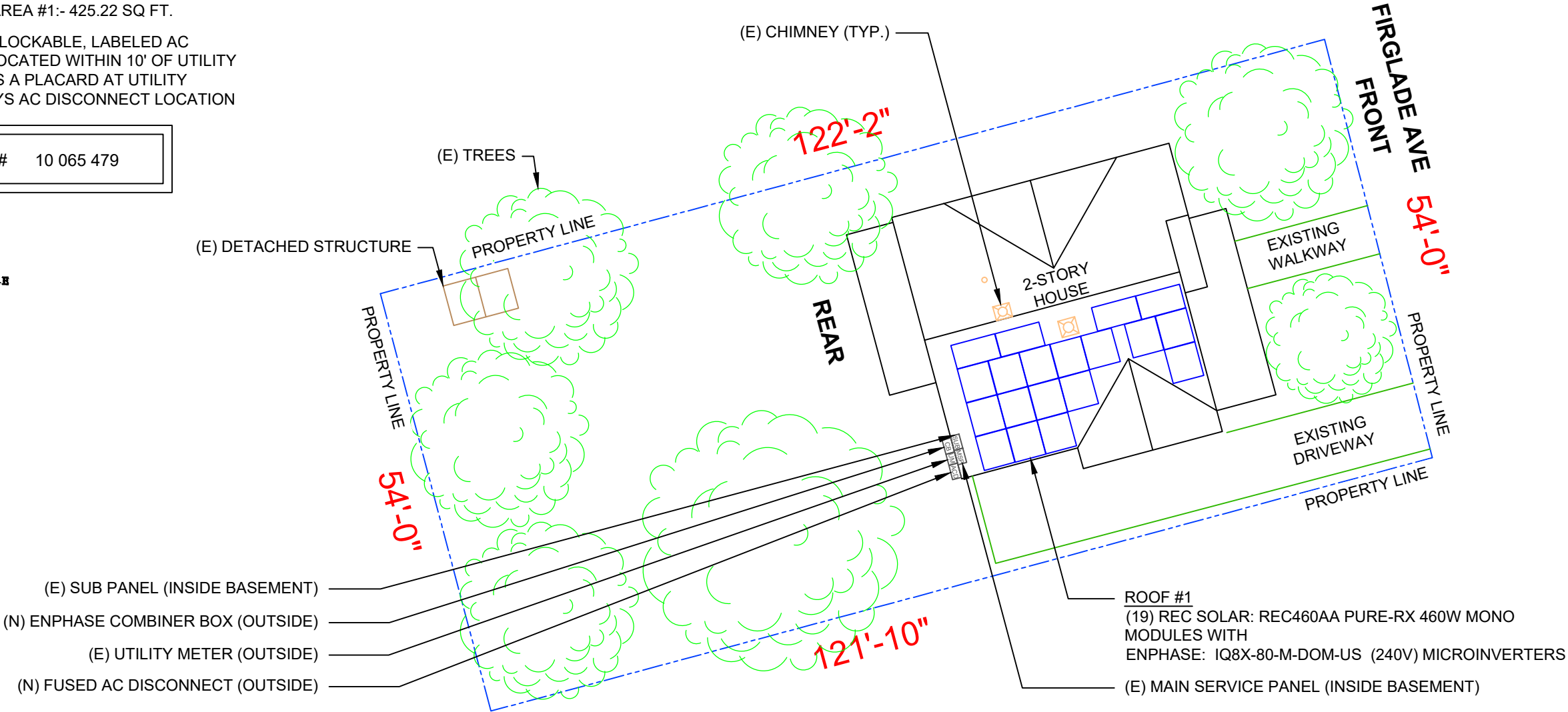
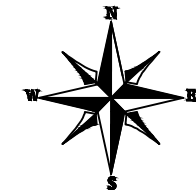
19 x REC SOLAR: REC460AA PURE-RX 460W PV MODULES
ROOF MOUNTED SOLAR PHOTOVOLTAIC MODULES
DC SYSTEM SIZE: 8.740KW DC
AC SYSTEM SIZE: 7.220KW AC

EQUIPMENT SUMMARY
19 REC SOLAR: REC460AA PURE-RX 460W PV MODULES
19 ENPHASE: IQ8X-80-M-DOM-US (240V) MICROINVERTERS

ROOF ARRAY AREA #1:- 425.22 SQ FT.

NOTE: VISIBLE, LOCKABLE, LABELED AC
DISCONNECT LOCATED WITHIN 10' OF UTILITY
METER, UNLESS A PLACARD AT UTILITY
METER DISPLAYS AC DISCONNECT LOCATION

METER NO # 10 065 479



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

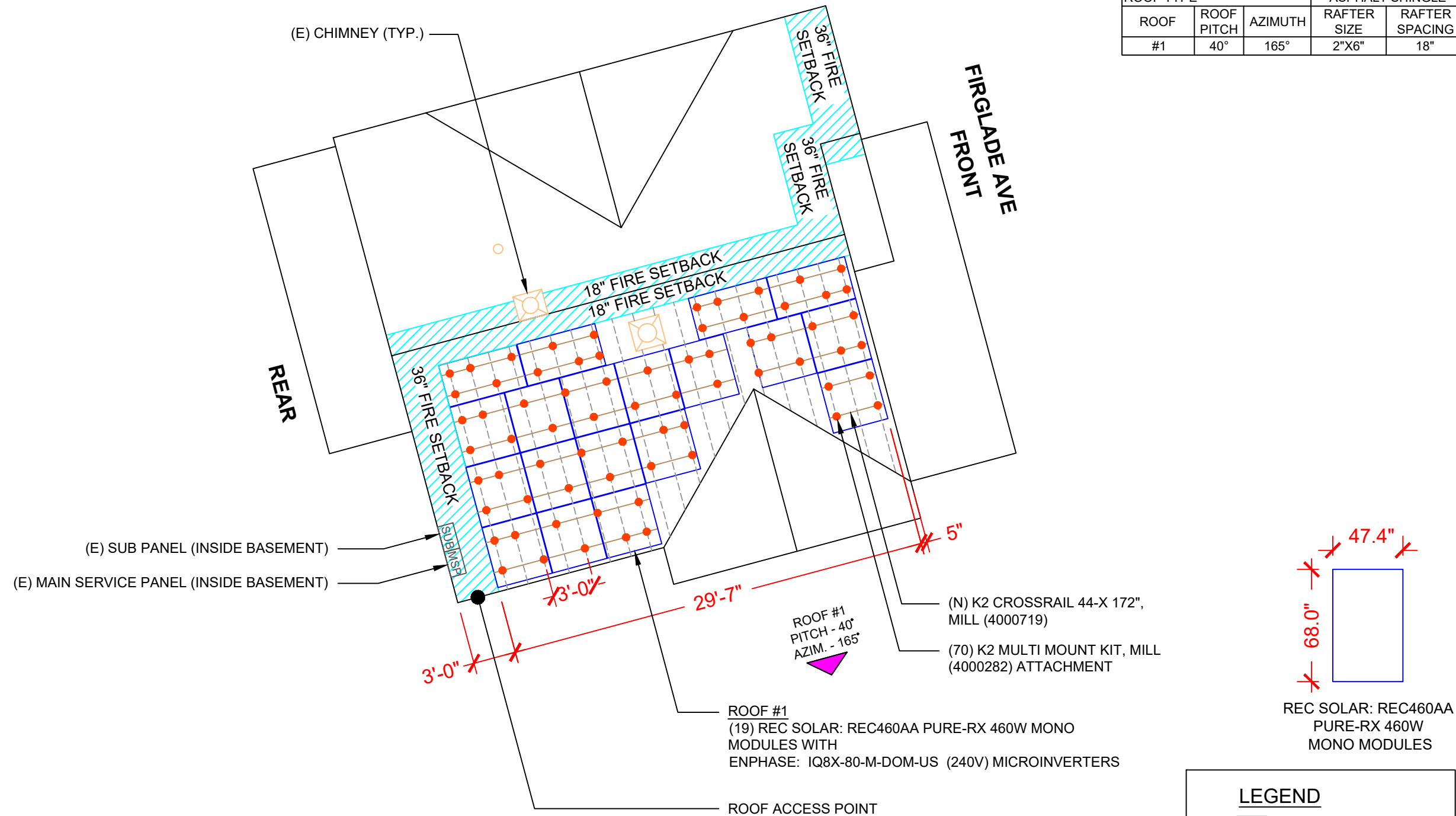
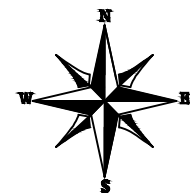
SHEET NAME
PLOT PLAN WITH
ROOF PLAN

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-2

MODULE TYPE, DIMENSIONS & WEIGHT

NUMBER OF MODULES = 19 MODULES
MODULE TYPE = REC SOLAR: REC460AA PURE-RX 460W MONO MODULES
MODULE WEIGHT = 50.0 LBS / 22.7 KG.
MODULE DIMENSIONS = 68.0" x 47.4" = 22.38 SF.



ARRAY AREA & ROOF AREA CALC'S				
ROOF	# OF MODULES	ARRAY AREA (Sq. Ft.)	ROOF AREA (Sq. Ft.)	ROOF AREA COVERED BY ARRAY (%)
#1	19	425.22	505.05	84
TOTAL	19	425.22	1491.68	29

ROOF DESCRIPTION				
ROOF TYPE			ASPHALT SHINGLE	
ROOF	ROOF PITCH	AZIMUTH	RAFTER SIZE	RAFTER SPACING
#1	40°	165°	2"X6"	18"

EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

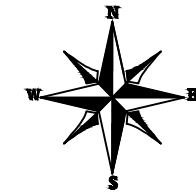
DRAWN BY
ESR

SHEET NAME
ROOF PLAN &
MODULES

SHEET SIZE
ANSI B
11" X 17"

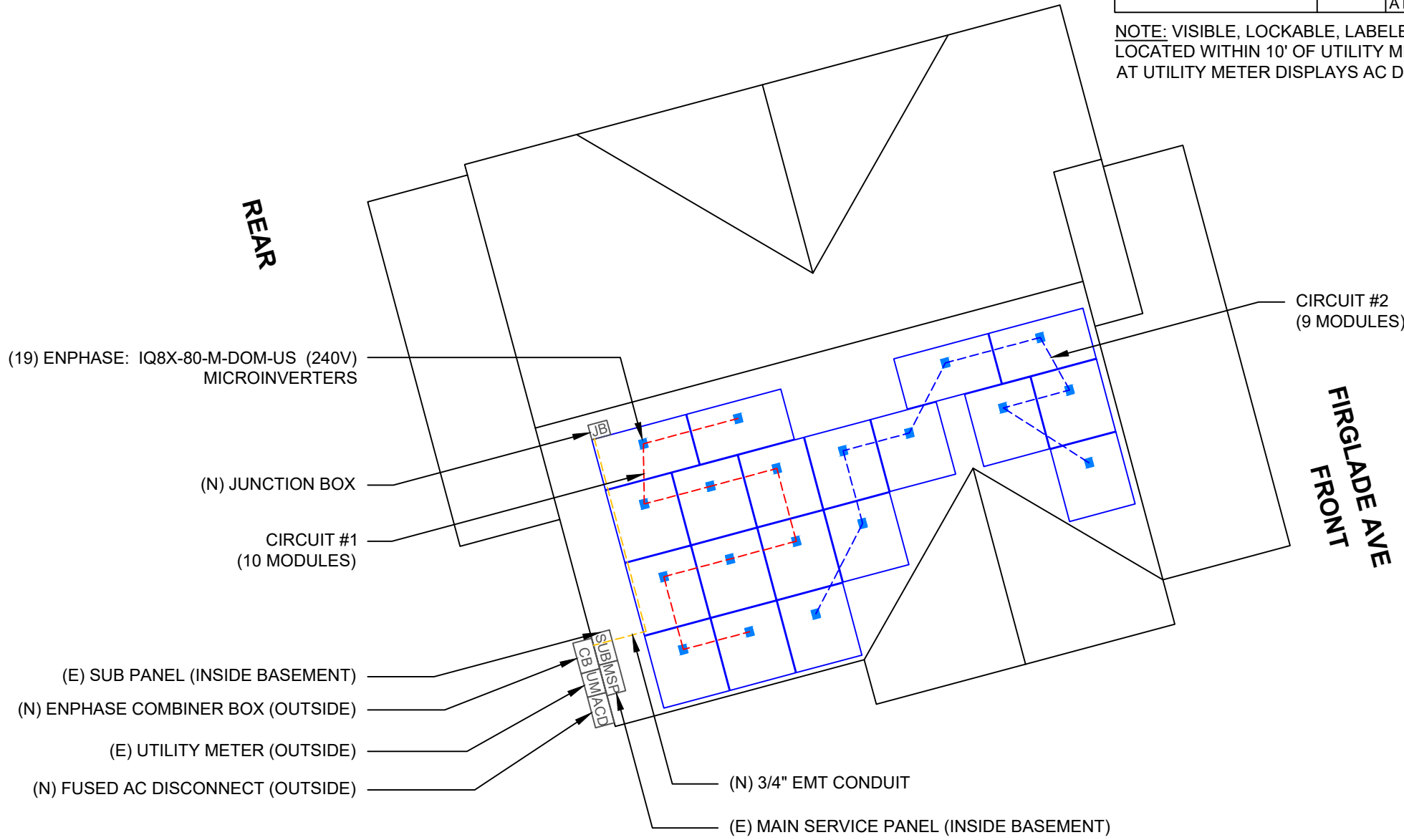
SHEET NUMBER
PV-3

CIRCUIT LEGENDS	
---	CIRCUIT #1
---	CIRCUIT #2



BILL OF MATERIALS		
EQUIPMENT	QTY	DESCRIPTION
SOLAR PV MODULES	19	REC SOLAR: REC460AA PURE-RX 460W
MICRO INVERTER	19	ENPHASE: IQ8X-80-M-DOM-US (240V) MICROINVERTERS
JUNCTION BOX	1	JUNCTION BOX
RAILS	12	K2 CROSSRAIL 44-X 172", MILL (4000719)
SPLICES	2	SPLICE KIT
MODULE CLAMPS	24	MID MODULE CLAMPS (4000135)
END CAP	28	END CAP/ STOPPER SLEEVE
ATTACHMENTS	70	K2 MULTI MOUNT KIT, MILL (4000282) ATTACHMENT

NOTE: VISIBLE, LOCKABLE, LABELED AC DISCONNECT LOCATED WITHIN 10' OF UTILITY METER, UNLESS A PLACARD AT UTILITY METER DISPLAYS AC DISCONNECT LOCATION



LEGEND	
CB	- COMBINER BOX
ACD	- AC DISCONNECT
SUB	- SUB PANEL
MSP	- MAIN SERVICE PANEL
UM	- UTILITY METER
JB	- JUNCTION BOX
---	- CONDUIT



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELTON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

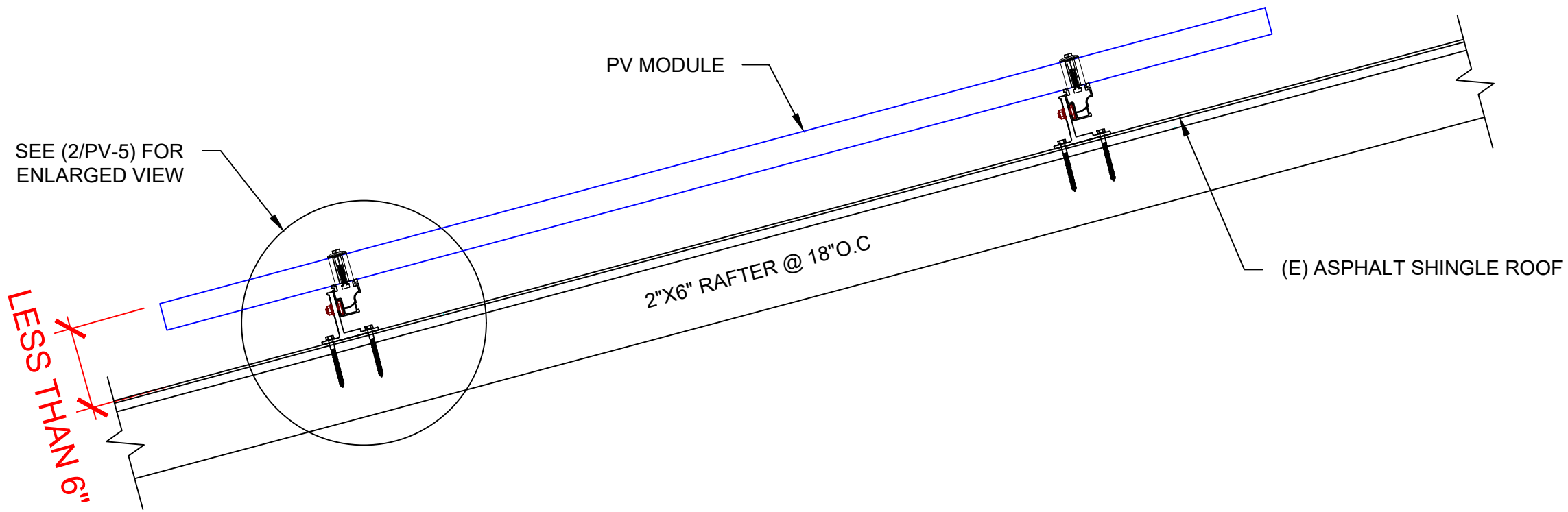
KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

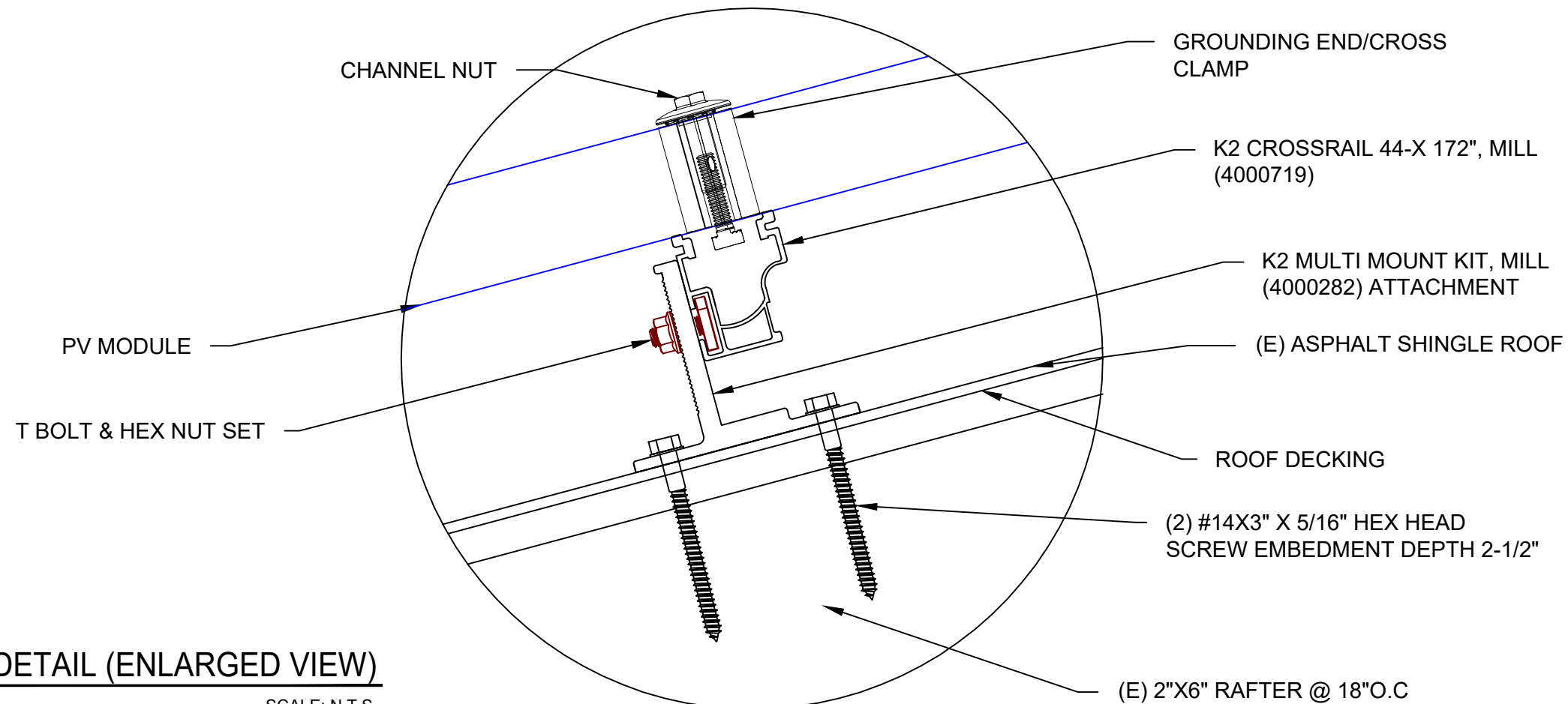
SHEET NAME
**ELECTRICAL
PLAN**

SHEET SIZE
**ANSI B
11" X 17"**

SHEET NUMBER
PV-4



1 | STRUCTURAL DETAIL (SIDE VIEW)
PV-5 | SCALE: N.T.S.



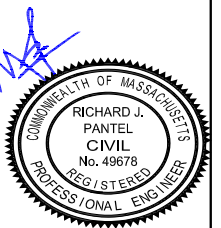
2 | STRUCTURAL DETAIL (ENLARGED VIEW)
PV-5 | SCALE: N.T.S.



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS

DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
ATTACHMENT
DETAIL

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-5

DC SYSTEM SIZE: 8.740 KW DC
AC SYSTEM SIZE: 7.220 KW AC

EQUIPMENT SUMMARY
19 REC SOLAR: REC460AA PURE-RX 460W PV MODULES
19 ENPHASE: IQ8X-80-M-DOM-US (240V) MICROINVERTERS

(1) BRANCH CIRCUIT OF 10 MODULES AND
(1) BRANCH CIRCUIT OF 09 MODULES CONNECTED IN PARALLEL

METER NO # 10 065 479

APPARENT RATED POWER: 7.220 KVA
MAXIMUM APPARENT RATED POWER: 7.296 KVA

INTERCONNECTION NOTES:

1. INTERCONNECTION SIZING, LIMITATIONS AND COMPLIANCE DETERMINED IN ACCORDANCE WITH [NEC 705.12], AND [NEC 690.64].
2. GROUND FAULT PROTECTION IN ACCORDANCE WITH [NEC 215.9], [NEC 230.95] AND [NEC 690.5]
3. ALL EQUIPMENT TO BE RATED FOR BACKFEEDING.
4. PV BREAKER TO BE POSITIONED AT THE OPPOSITE END OF THE BUSBAR RELATIVE TO THE MAIN BREAKER.

DISCONNECT NOTES:

1. DISCONNECTING SWITCHES SHALL BE WIRED SUCH THAT WHEN THE SWITCH IS OPENED THE CONDUCTORS REMAINING LIVE ARE CONNECTED TO THE TERMINALS MARKED "LINE SIDE" (TYPICALLY THE UPPER TERMINALS)
2. AC DISCONNECT MUST BE ACCESSIBLE TO QUALIFIED UTILITY PERSONNEL, BE LOCKABLE, AND BE A VISIBLE-BREAK SWITCH.
3. DISCONNECT MEANS AND THEIR LOCATION SHALL BE IN ACCORDANCE WITH [NEC 225.31] AND [NEC 225.32].

RACKING NOTES:

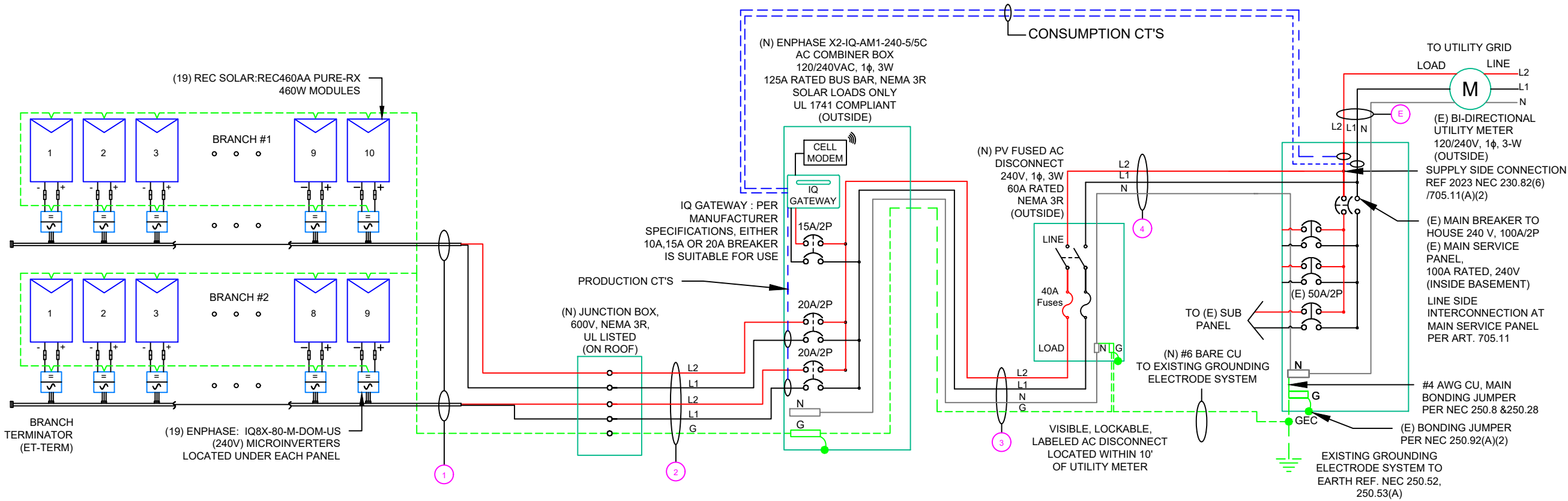
1. BOND EVERY OTHER RAIL WITH #6 BARE COPPER

GROUNDING & GENERAL NOTES:

1. A SECOND FACILITY GROUNDING ELECTRODE IS NOT REQUIRED PER [NEC 690.47(C)(3)]
2. PV INVERTER IS UNGROUNDED, TRANSFORMER-LESS TYPE.
3. DC GEC AND AC EGC TO REMAIN UNSPLICED, OR SPLICED TO EXISTING ELECTRODE
4. ANY EXISTING WIRING INVOLVED WITH PV SYSTEM CONNECTION THAT IS FOUND TO BE INADEQUATE PER CODE SHALL BE CORRECTED PRIOR TO FINAL INSPECTION.
5. JUNCTION BOX QUANTITIES, AND PLACEMENT SUBJECT TO CHANGE IN THE FIELD - JUNCTION BOX DEPICTED ON ELECTRICAL DIAGRAM REPRESENT WIRE TYPE TRANSITIONS.
6. AC DISCONNECT NOTED IN EQUIPMENT SCHEDULE OPTIONAL IF OTHER AC DISCONNECTING MEANS IS LOCATED WITHIN 10' OF SERVICE DISCONNECT.
7. RACEWAYS AND CABLES EXPOSED TO SUNLIGHT ON ROOFTOPS SHOULD BE INSTALLED MORE THAN 7/8" ABOVE THE ROOF USING CONDUIT SUPPORTS.
8. ALL NEW SERVICE INSTALLATIONS AND REPLACEMENTS REQUIRE A SURGE-PROTECTIVE DEVICE (SPD) IN ACCORDANCE WITH [NEC 230.67]. THE SPD SHALL BE TYPE 1 OR TYPE 2 AND IS REQUIRED TO BE AN INTEGRAL PART OF THE SERVICE EQUIPMENT OR LOCATED IMMEDIATELY ADJACENT THERETO.

INSTALLER / ELECTRICIAN NOTE:

EC IS TO MEASURE VOLTAGE BEFORE STARTING WORK. IF RESULT IS ANY OTHER VOLTAGE MEASURED THAN 120/240V IS OBSERVED, DO NOT PROCEED. CONTACT ENGINEER.



QTY	CONDUCTOR INFORMATION		CONDUIT TYPE	CONDUIT SIZE
(4)	#12AWG -	ENPHASE Q CABLE (L1 & L2 NO NEUTRAL)	N/A	N/A
(1)	#6AWG -	BARE COPPER IN FREE AIR		
(4)	#10AWG -	CU, THWN-2	EMT OR FMC IN ATTIC	3/4"
(1)	#10AWG -	CU, THWN-2 GND		
(2)	#6AWG -	CU, THWN-2	EMT, OR PVC	3/4"
(1)	#6AWG -	CU, THWN-2 N		
(1)	#10AWG -	CU, THWN-2 GND		
(2)	#6AWG -	CU, THWN-2	EMT, OR PVC	3/4"
(1)	#6AWG -	CU, THWN-2 N		

1 ELECTRICAL LINE DIAGRAM

PV-6

SCALE: NTS



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
ELECTRICAL LINE
DIAGRAM

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-6

⚠️

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

DUAL POWER SUPPLY

SOURCES: UTILITY GRID
AND PV SOLAR ELECTRIC
SYSTEM

LABEL LOCATION:
UTILITY SERVICE METER AND MAIN
SERVICE PANEL.
PER CODE(S): NEC 2023: 705.30(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)

PHOTOVOLTAIC

AC DISCONNECT

LABEL LOCATION:
AC DISCONNECT
CODE REF: NEC 690.13(B)

SOLAR CONNECTION
LINE SIDE TAP

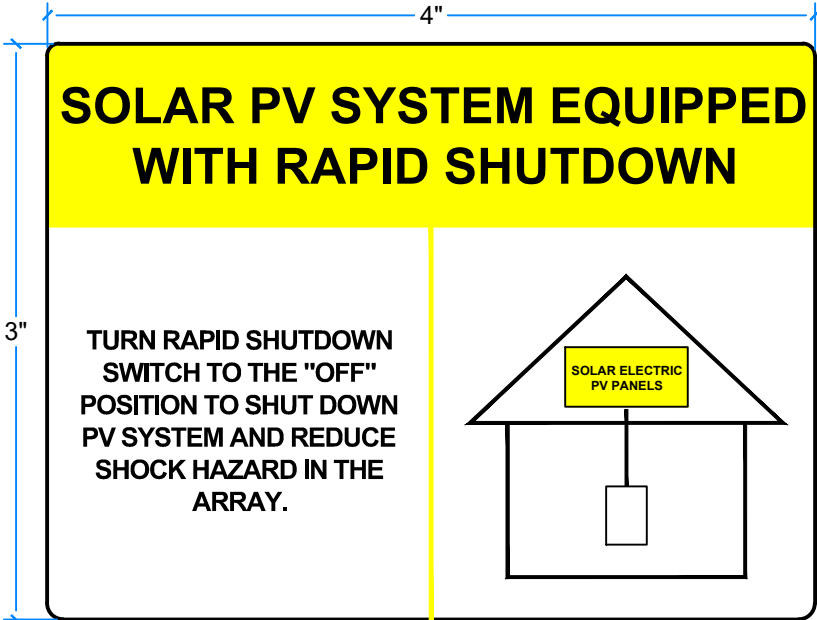
LABEL LOCATION:
MAIN SERVICE PANEL

WARNING: PHOTOVOLTAIC
POWER SOURCE

LABEL LOCATION:
INTERIOR AND EXTERIOR PV CONDUIT EVERY 10 FT,
AT EACH TURN, ABOVE AND BELOW PENETRATIONS,
ON EVERY JB/PULL BOX CONTAINING PV CIRCUITS.
PER CODE(S): NEC 2023: 690.31(D)(2)

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)



LABEL LOCATION:
ON OR NO MORE THAN 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.

EVERLAST

ENERGY & ROOFING

EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

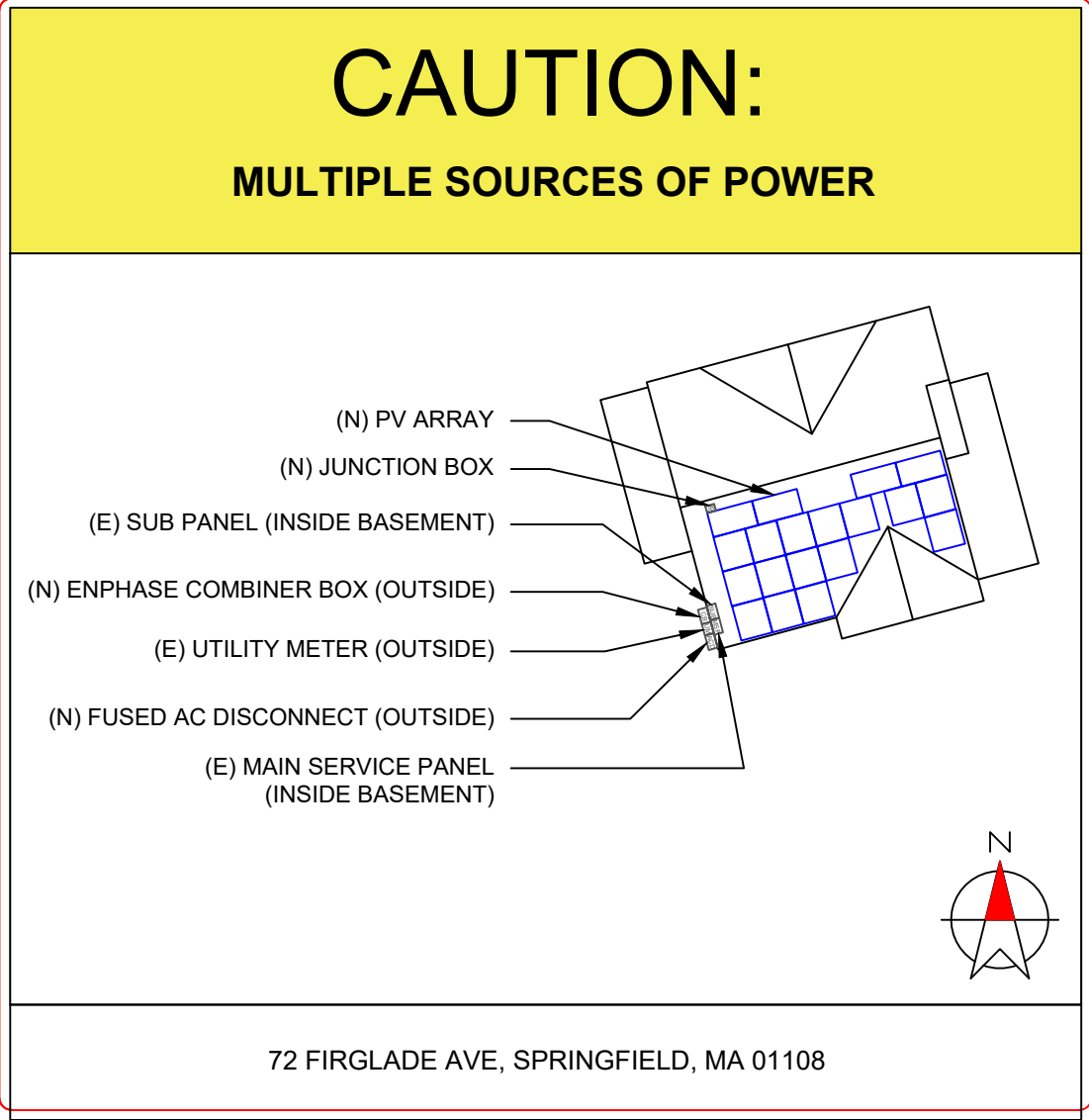
KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
LABELS

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-8



DIRECTORY
PERMANENT PLAQUE OR DIRECTORY PROVIDING THE LOCATION OF
THE SERVICE DISCONNECTING MEANS AND THE PHOTOVOLTAIC
SYSTEM.

(ALL PLAQUES AND SIGNAGE WILL BE INSTALLED AS OUTLINED
WITHIN: NEC 710.10, [NEC 705.10])

- LABELING NOTES:
- 1. LABELS CALLED OUT ACCORDING TO ALL COMMON CONFIGURATIONS. ELECTRICIAN TO DETERMINE EXACT REQUIREMENTS IN THE FIELD PER CURRENT NEC AND LOCAL CODES AND MAKE APPROPRIATE ADJUSTMENTS.
 - 2. LABELING REQUIREMENTS BASED ON THE 2023 NEC, OSHA STANDARD 1910.145, ANSI Z535.
 - 3. MATERIAL BASED ON THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
 - 4. LABELS TO BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED [NEC 110.21]
 - 5. LABELS TO BE A MINIMUM LETTER HEIGHT OF 3/8", WHITE ON RED BACKGROUND; REFLECTIVE, AND PERMANENTLY AFFIXED [NEC 690.56(C)(1)(A)].

EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV

Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

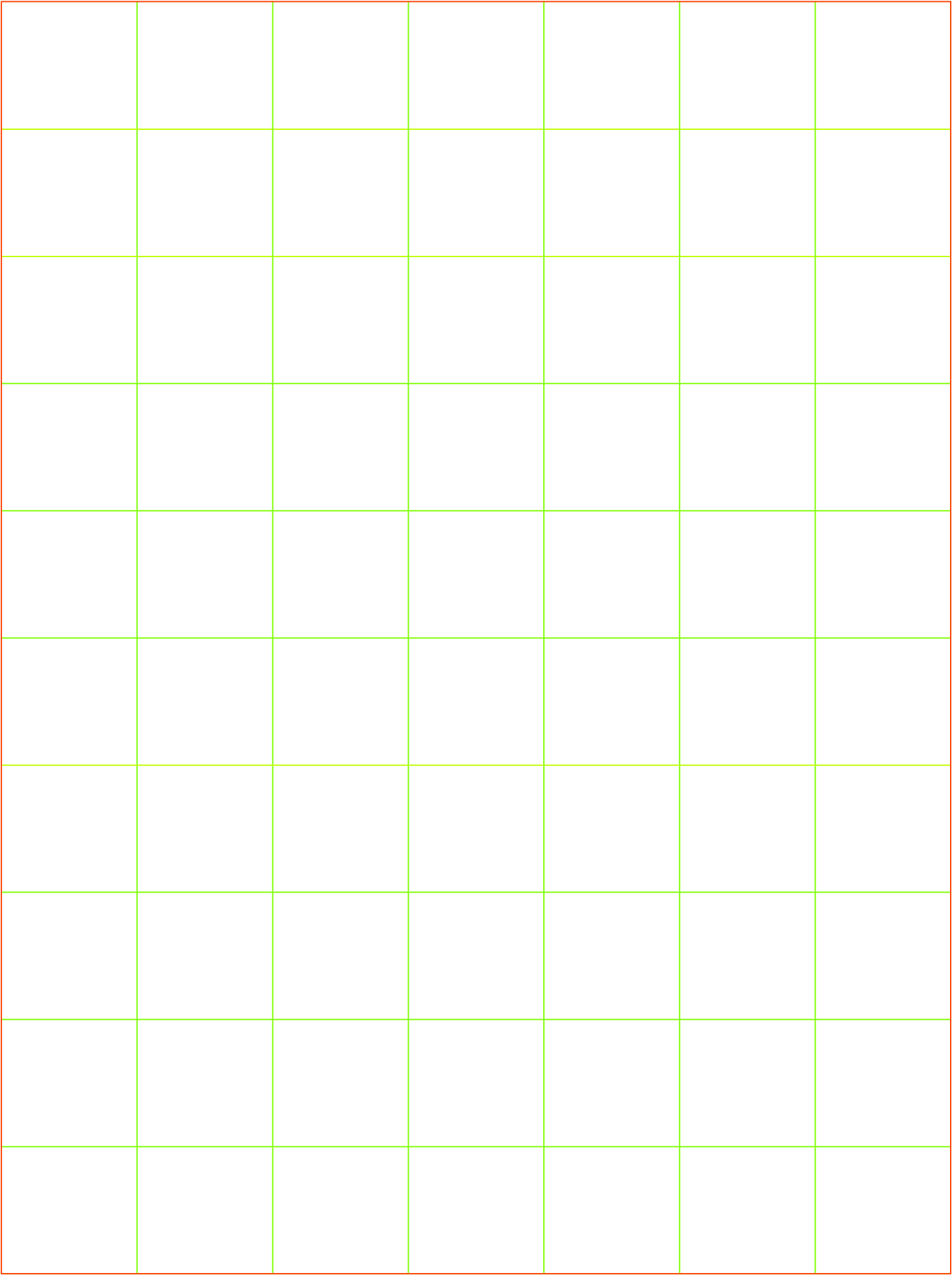
SHEET NAME
PLACARD

SHEET SIZE
ANSI B
11" X 17"

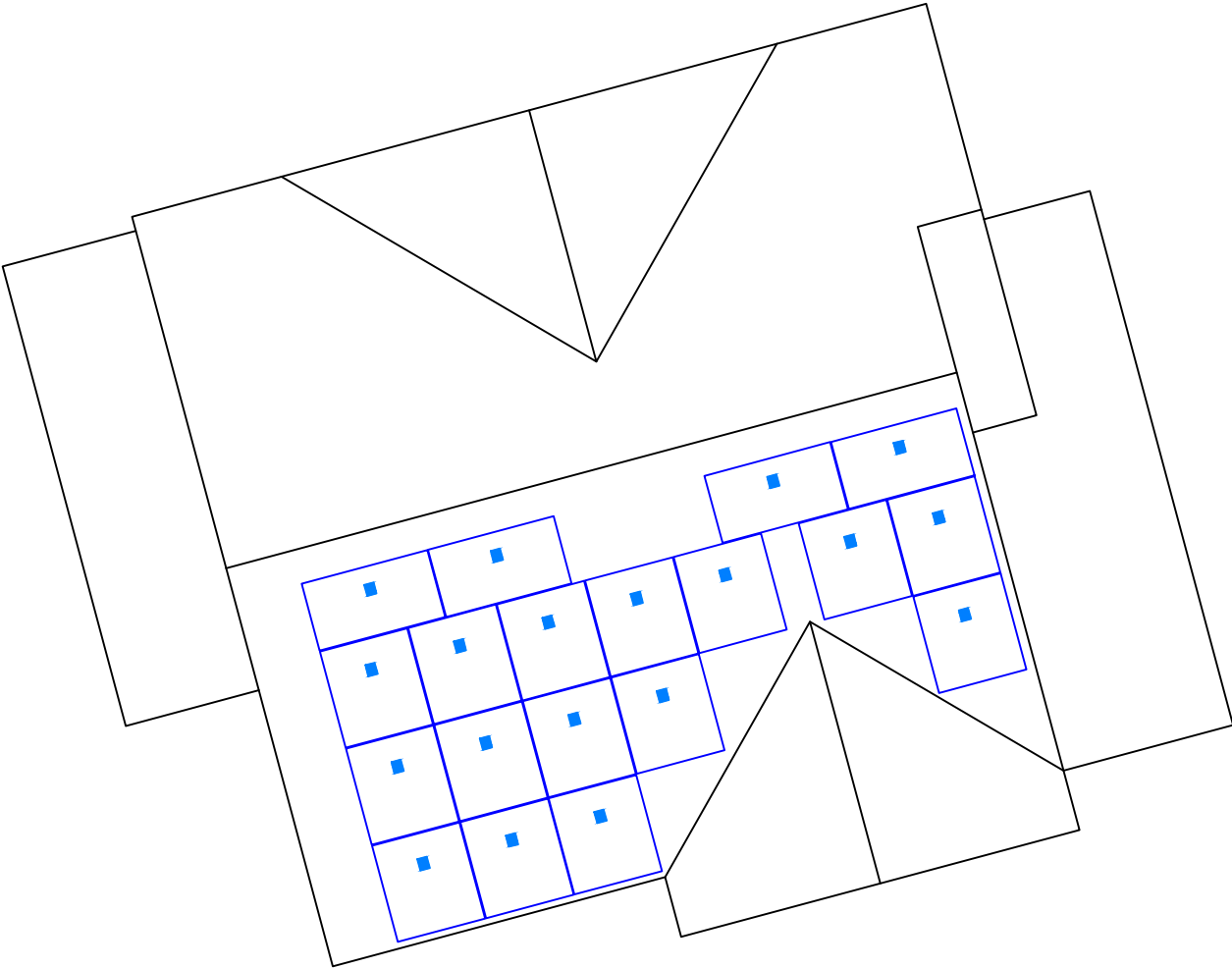
SHEET NUMBER
PV-9

1-10 11-20 21-30 31-40 41-50 51-60 61-70

1
2
3
4
5
6
7
8
9
10



MICRO INVERTER CHART





EVERLAST
ENERGY & ROOFING

EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV



Reviewed and approved
Richard Pantel, P.E.
MA Lic. No. 49678
Structural / Electrical

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
MICRO INVERTER
CHART

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-10

REC ALPHA[®] PURE-RX

DATASHEET



OUR STRONGEST PANEL

45 MM HAIL RESISTANT

+7000 PA / -4000 PA
WITH 4 POINT CLAMPING

+10000 PA / -6000 PA
WITH 6 POINT CLAMPING

450 - 470W
HETEROJUNCTION
TECHNOLOGY

22.6% MAX EFFICIENCY
>92% POWER IN YEAR 25
-0.24%/°C TEMPERATURE
COEFFICIENT OF P_{MAX}



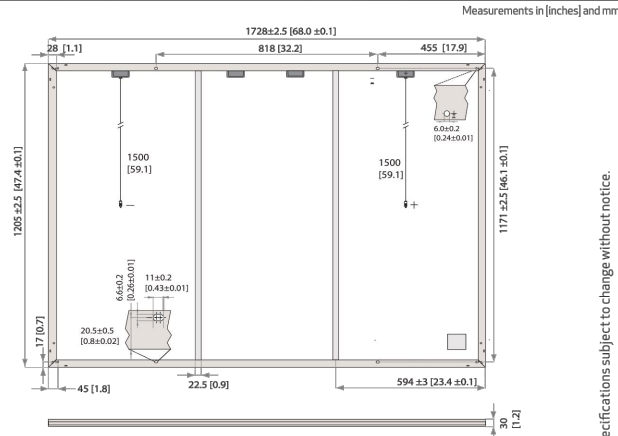
ELIGIBLE

REC ALPHA[®] PURE-RX DATASHEET



GENERAL DATA

Cell Type	88 half-cut bifacial REC heterojunction cells, with gapless technology
Glass	0.13 in solar glass with anti-reflective surface treatment in accordance with EN12150
Backsheet	Highly resistant polymer (Black)
Frame	Anodized aluminum (Black)
Junction Box	4-part, 4 bypass diodes, IP68 rated, in accordance with IEC 62790:2020
Connectors	Stäubli MC4 PV-KBT4/KST4 (12 AWG) in accordance with IEC 62852:2014, IP68 only when connected
Cable	12 AWG solar cable, 59.1 in (1.50 m) + 59.1 in (1.50 m) in accordance with EN50618:2014
Dimensions	68.0 x 47.4 x 1.2 in (22.4 ft ²) / 1728 x 1205 x 30 mm (2.08 m ²)
Weight	50.0 lb / 22.7 kg
Origin	Made in Singapore



Specifications subject to change without notice.

ELECTRICAL DATA

PRODUCT CODE*: RECXXXAA PURE-RX

Power Output - P _{MAX} (W _p)	450	460	470
Watt Class Sorting - (W)	0/+10	0/+10	0/+10
Nominal Power Voltage - V _{MPP} (V)	54.3	54.9	55.4
Nominal Power Current - I _{MPP} (A)	8.29	8.38	8.49
Open Circuit Voltage - V _{OC} (V)	65.6	65.7	65.7
Short Circuit Current - I _{SC} (A)	8.81	8.88	8.95
Power Density (W/ft ²)	20.1	20.5	21.0
Panel Efficiency (%)	21.6	22.1	22.6

STC

Power Output - P _{MAX} (W _p)	342	350	358
Nominal Power Voltage - V _{MPP} (V)	51.2	51.7	52.2
Nominal Power Current - I _{MPP} (A)	6.70	6.77	6.86
Open Circuit Voltage - V _{OC} (V)	61.8	61.9	61.9
Short Circuit Current - I _{SC} (A)	7.12	7.18	7.23

NMOT

Values at standard test conditions (STC: air mass AM 1.5, irradiance 1000 W/m², temperature 25°C), based on a production spread with a tolerance of P_{MAX}, V_{OC} & I_{SC} ±3% within one watt class. Nominal module operating temperature (NMOT: air mass AM 1.5, irradiance 800 W/m², temperature 20°C, windspeed 1 m/s). *Where xxx indicates the nominal power class (P_{MAX}) at STC above.

TEMPERATURE COEFFICIENT*

P _{MAX} -0.24%/°C	V _{OC} -0.24%/°C	I _{SC} 0.04%/°C	*The temperature coefficients stated are linear values
----------------------------	---------------------------	--------------------------	--

MODULE RATINGS

Module Operating Temperature [T98] [§]	176°F (80°C)
Min Environmental Temperature	-40°F (-40°C)
Nominal Module Operating Temperature	44 ± 2°C
Max Hail Rating [§]	45 mm @ 30.7 m/s
System Voltage	1000 V
Max Series Fuse Rating	25 A
Max Reverse Current	25 A

§ 98th percentile operating temperature
Based on third party testing

MAXIMUM TEST LOAD*

Front (4-Point)*	+7000 Pa (146 lbs/ft ²)
Rear (4-Point)*	-4000 Pa (84 lbs/ft ²)
Front (6-Point)**	+10000 Pa (209 lbs/ft ²)
Rear (6-Point)**	-6000 Pa (125 lbs/ft ²)

Design load = Test load / 1.5 (safety factor)
*IEC61730/UL61730 certified. Refer to installation manual.
**Internal testing. Refer to installation manual.

Available from:



Founded in 1996, REC Group is an international pioneering solar energy company dedicated to empowering consumers with clean, affordable solar power. As Solar's Most Trusted, REC is committed to high quality, innovation, and a low carbon footprint in the solar materials and solar panels it manufactures. Headquartered in Norway with operational headquarters in Singapore, REC also has regional hubs in North America, Europe, and Asia-Pacific.

CERTIFICATIONS

ISO 14001; ISO 9001; IEC 45001; IEC 62941	
IEC 61215:2021; IEC 61730:2023; UL 61730	
IEC 61730	Fire Class C
ISO 11925-2	Ignitability (EN 13501-1 Class E)
IEC 62716	Ammonia Resistance
IEC 61701	Salt Mist (SM6)
IEC 61215:2021	Hailstone (35 mm)
UL 61730	Fire Type 2
IEC TS 63126	Level 1



WARRANTY

	Standard	REC ProTrust
Installed by an REC	No	Yes
Certified Professional	No	Yes
System Size	All	<25 kW 25-500 kW
Product Warranty (yrs)	20	25
Power Warranty (yrs)	25	25
Labor Warranty (yrs)	0	10
Power in Year 1	98%	98%
Annual Degradation	0.25%	0.25%
Power in Year 25	92%	92%

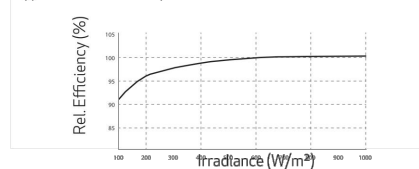
REC ProTrust Warranty applies only for i) REC panels installed by an REC Certified Solar Professional, and ii) panels have been registered by the installer with REC. Subject to System Size and further conditions. See www.recgroup.com for details.

DELIVERY INFORMATION

Panels per Pallet	33
Panels per 40 ft GP/high cube container	594 (18 Pallets)
Panels per 53 ft truck	792 (24 Pallets)

LOW LIGHT BEHAVIOR

Typical low irradiance performance of module at STC:



REC Solar PTE. LTD.
20 Tuas South Ave. 14
Singapore 637312
post@recgroup.com
www.recgroup.com



ULEN10.2025 V5 REF: PM-05-12-06/06.04.06.01



EVERLAST ENERGY & ROOFING
ADDRESS : 135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE: (860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS

DESCRIPTION	DATE	REV

DATE: 06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-11



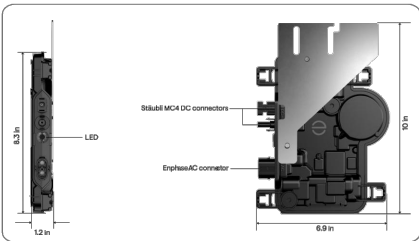
NORTH AMERICA DATA SHEET

IQ8X Microinverter

Our newest IQ8 Series Microinverters^{1,2,3} are the industry's first microgrid-forming⁴, software-defined microinverters with split-phase power conversion capability to convert DC power to AC power efficiently. IQ8X Microinverter is the latest addition to this family, designed to support PV modules with high output DC voltage and cell counts, such as 80-half-cut cells, 88-half-cut cells, and 96-cells.



Key specifications	IQ8X-80-M-US/ IQ8X-80-M-DOM-US @ 240 V	IQ8X-80-M-US/ IQ8X-80-M-DOM-US @ 208 V
Peak output power	384 VA	366 VA
Nominal grid voltage (L-L)	240 V, split-phase (L-L), 180°	208 V, single-phase (L-L), 120°
Nominal frequency	60 Hz	60 Hz
CEC weighted efficiency	96.5%	96.5%
Maximum input DC voltage	79.5 V	79.5 V
MPPT voltage range	43–60 V	43–60 V
Maximum module I _{sc}	13 A	13 A
Ambient temperature range	–40°C to 65°C (–40°F to 149°F)	



¹ IQ8 Series Microinverters can be added to existing IQ7 systems on the same IQ Gateway only in the following grid-tied configurations: Solar Only or Solar + Battery (IQ Battery 3T/10T and IQ Battery 5P) without backup.
² IQ7 Series Microinverters cannot be added to a site with existing IQ8 Series Microinverters on the same gateway. Mixed system of IQ7 and IQ8 will not support IQ8-specific PCS features and grid-forming capabilities.
³ IQ Microinverters ship with default settings that meet North America's IEEE 1547 interconnection standard requirements. Region-specific adjustments may be requested by an Authority Having Jurisdiction (AHJ) or utility representative, according to the IEEE 1547 interconnection standard. An IQ Gateway is required to make these changes during installation.
⁴ Meets UL 1741 only when installed with IQ System Controller 2 or 3.

Simple

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- Faster installation with simple two-wire cabling

Reliable

- Produces power even when the grid is down⁴
- More than one million cumulative hours of testing
- Industry-leading limited warranty of up to 25 years
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

Microgrid-forming

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB 3rd Ed.)

Input data (DC)	Units	IQ8X-80-M-US/IQ8X-80-M-DOM-US @ 240 V	IQ8X-80-M-US/IQ8X-80-M-DOM-US ⁵ @ 208 V
Commonly used module pairings ⁶	W	320–540	
Module compatibility	—	To meet compatibility, PV modules must be within the following maximum input DC voltage and maximum module I _{sc} . Module compatibility can be checked at https://enphase.com/installers/microinverters/calculator .	
MPPT voltage range	V	43–60	
Operating range	V	25–79.5	
Minimum/Maximum start voltage	V	30–79.5	
Maximum input DC voltage	V	79.5	
Maximum continuous input DC current	A	10	
Maximum input DC short-circuit current	A	16	
Maximum module I _{sc}	A	13	
Overvoltage class DC port	—	II	
DC port backfeed current	mA	0	
PV array configuration	—	Ungrounded array; no additional DC side protection required; AC side protection requires a maximum of 20 A per branch circuit	

Output data (AC)	Units	IQ8X-80-M-US/IQ8X-80-M-DOM-US @ 240 V	IQ8X-80-M-US/IQ8X-80-M-DOM-US ⁵ @ 208 V
Peak output power	VA	384	366
Maximum continuous output power	VA	380	360
Nominal voltage (L-L)	V	240, split-phase (L-L), 180°	208, single-phase (L-L), 120° ⁷
Minimum and maximum grid voltage ⁸	V	211–264	183–229
Maximum continuous output current	A	1.58	1.73
Nominal frequency	Hz	60	
Extended frequency range	Hz	47–68	
AC short-circuit fault current over three cycles	A _{rms}	2.70	
Maximum units per 20 A (L-L) branch circuit ⁹	—	10	9
Total harmonic distortion	%	<5	
Overvoltage class AC port	—	III	
AC port backfeed current	mA	18	
Power factor setting	—	1.0	
Grid-tied power factor (adjustable)	—	0.85 leading ... 0.85 lagging	
Peak efficiency	%	97.3	97.0
CEC weighted efficiency	%	96.5	96.5
Nighttime power consumption	mW	26	12

⁵ IQ8X-80-M-DOM-US is made in the U.S., and the PCBA, electrical parts, and enclosure are domestically manufactured to meet the eligibility requirements to be considered for the ITC domestic content bonus adder.
⁶ No enforced DC/AC ratio.
⁷ IQ8X is not certified for use with Enphase Three Phase Network Protection Relay (NPR-3P-208-NA) and is, therefore, designed for single-phase operation only. Check with the local utility requirements if you wish to install single-phase inverters across three phases.
⁸ Nominal voltage range can be extended beyond nominal if required by the utility.
⁹ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

Mechanical data	IQ8X-80-M-US/IQ8X-80-M-DOM-US @ 240 V	IQ8X-80-M-US/IQ8X-80-M-DOM-US ⁵ @ 208 V
Ambient temperature range	–40°C to 65°C (–40°F to 149°F)	
Relative humidity range	4% to 100% (condensing)	
DC connector type	Stäubli MC4	
Dimensions (H × W × D)	212 mm (8.3") × 175 mm (6.9") × 30.2 mm (1.2"); 1.1 kg (2.43 lb)	
Cooling	Natural convection—no fans	
Approved for wet locations	Yes; PD3	
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure	
Environmental category/UV exposure rating	NEMA Type 6/Outdoor	
Compliance	IQ8X-80-M-US/IQ8X-80-M-DOM-US @ 240 V	IQ8X-80-M-US/IQ8X-80-M-DOM-US ⁵ @ 208 V
Certifications	CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547:2018 (UL 1741-SB 3 rd Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01. This product is UL Listed as PV rapid shutdown equipment and conforms with NEC 2014, NEC 2017, NEC 2020, and NEC 2023 section 690.12 and C22.1-2018 Rule 64-218 rapid shutdown of PV systems for AC and DC conductors when installed according to the manufacturer's instructions.	



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS

DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE

72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-12



DATASHEET



X-IQ-AMI-240-5
X-IQ-AMI-240-5C

IQ Combiner 5/5C

The IQ Combiner 5/5C consolidates interconnection equipment into a single enclosure and streamlines IQ Series Microinverters and IQ Gateway installation by providing a consistent, pre-wired solution for residential applications. IQ Combiner 5/5C uses wired control communication and is compatible with IQ System Controller 3/3G and IQ Battery 5P.

The IQ Combiner 5/5C, along with IQ Series Microinverters, IQ System Controller 3/3G, and IQ Battery 5P provides you with a complete grid-agnostic Enphase Energy System.



IQ Series Microinverters
The high-powered smart grid-ready IQ Series Microinverters (IQ6, IQ7, and IQ8 Series) dramatically simplify the installation process



IQ System Controller 3/3G
Provides microgrid interconnection device (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power



IQ Battery 5P
Fully integrated AC battery system. Includes six field-replaceable IQBD-BAT Microinverters



IQ Load Controller
Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life



5-year
limited
warranty



LISTED

© 2023 Enphase Energy. All rights reserved. Enphase, the e and OC logos, IQ, and certain other marks listed at <https://enphase.com/trademark-usage-guidelines> are trademarks of Enphase Energy, Inc. in the US and other countries. Data subject to change.

IQC-5-5C-DSH-00007-2.0-EN-US-2023-09-27

IQ Combiner 5/5C

MODEL NUMBER	
IQ Combiner 5 (X-IQ-AMI-240-5)	IQ Combiner 5 with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%) and IQ Battery monitoring (±2.5%). Includes a silver solar shield to deflect heat.
IQ Combiner 5C (X-IQ-AMI-240-5C)	IQ Combiner 5C with IQ Gateway printed circuit board for integrated revenue grade PV production metering (ANSI C12.20 ±0.5%), consumption monitoring (±2.5%) and IQ Battery monitoring (±2.5%). Includes Enphase Mobile Connect cellular modem (CELLMODEM-MI-06-SP-05) ¹ . Includes a silver solar shield to deflect heat.
WHAT'S IN THE BOX	
IQ Gateway printed circuit board	IQ Gateway is the platform for total energy management for comprehensive, remote maintenance and management of the Enphase IQ System
Busbar	125A busbar with support for 1 x IQ Gateway breaker and 4 x 20A breaker for installing IQ Series Microinverters and IQ Battery 5P
IQ Gateway breaker	Circuit breaker, 2-pole, 10 A/15 A
Production CT	Prewired revenue-grade solid core CT, accurate up to 0.5%
Consumption CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 2.5%
IQ Battery CT	One battery metering clamp CT, shipped with the box, accurate up to 2.5%
CTRL board	Control board for wired communication with IQ System Controller 3/3G and the IQ Battery 5P
Enphase Mobile Connect (only with IQ Combiner 5C)	4G-based LTE-M cellular modem (CELLMODEM-MI-06-SP-05) with a 5-year T-Mobile data plan
Accessories kit	Spare control headers for CTRL board
ACCESSORIES AND REPLACEMENT PARTS (NOT INCLUDED, ORDER SEPARATELY)	
CELLMODEM-MI-06-SP-05	4G-based LTE-M cellular modem with a 5-year T-Mobile data plan
CELLMODEM-MI-06-AT-05	4G-based LTE-M cellular modem with a 5-year AT&T data plan
Circuit breakers (off-the-shelf)	Supports Eaton BR210, BR215, BR220, BR230, BR240, BR250, and BR260 circuit breakers Supports Eaton BR220B, BR230B, and BR240B circuit breakers compatible with hold-down kit
Circuit breakers (provided by Enphase)	BRK-10A-2-240V, BRK-15A-2-240V, BRK-20A-2P-240V, BRK-15A-2P-240V-B, and BRK-20A-2P-240V-B (More details in "Accessories" section)
XA-SOLARSHIELD-ES	Replacement solar shield for IQ Combiner 5/5C
XA-ENV2-PCBA-5	IQ Gateway replacement printed circuit board (PCB) for Combiner 5/5C
X-IQ-NA-HD-125A	Hold-down kit compatible with Eaton BR-B series circuit breakers (with screws)
ELECTRICAL SPECIFICATIONS	
Rating	80 A
System voltage	120/240 VAC, 60 Hz
Busbar rating	125 A
Fault current rating	10 kAIC
Maximum continuous current rating (input from PV/storage)	64 A
Branch circuits (solar and/or storage)	Up to four 2-pole Eaton BR series distributed generation (DG) breakers only (not included)
Maximum total branch circuit breaker rating (input)	80 A of distributed generation/95 A with IQ Gateway breaker included
IQ Gateway breaker	10 A or 15 A rating GE/Siemens/Eaton included
Production metering CT	200 A solid core pre-installed and wired to IQ Gateway
Consumption monitoring CT (CT-200-CLAMP)	A pair of 200 A clamp-style current transformers is included with the box
IQ Battery metering CT	200 A clamp-style current transformer for IQ Battery metering, included with the box

¹ A plug-and-play industrial-grade cell modem for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.)

IQC-5-5C-DSH-00007-2.0-EN-US-2023-09-27

MECHANICAL DATA	
Dimensions (WxHxD)	37.5 cm x 49.5 cm x 16.8 cm (14.75" x 19.5" x 6.63"). Height is 21.06" (53.5 cm) with mounting brackets
Weight	7.5 kg (16.5 lbs)
Ambient temperature range	-40°C to 46°C (-40°F to 115°F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire sizes	20 A to 50 A breaker inputs: 14 to 4 AWG copper conductors 60 A breaker branch input: 4 to 1/0 AWG copper conductors - Main lug combined output: 10 to 2/0 AWG copper conductors - Neutral and ground: 14 to 1/0 copper conductors - Always follow local code requirements for conductor sizing
Communication (in-premise connectivity)	Built-in CTRL board for wired communication with IQ Battery 5P and IQ System Controller 3/3G. Integrated Power Line Communication for IQ Series Microinverters
Altitude	Up to 2,600 meters (8,530 feet)
COMMUNICATION INTERFACES	
Integrated Wi-Fi	802.11b/g/n (dual band 2.4 GHz/5 GHz), for connecting the Enphase cloud via the internet
Wi-Fi range (recommended)	10 m
Bluetooth	BLE4.2, 10 m range to configure Wi-Fi SSID
Ethernet	Optional, 802.3, Cat5e (or Cat 6) UTP Ethernet cable (not included), for connecting to the Enphase Cloud via the internet
Mobile Connect	CELLMODEM-MI-06-SP-05 or CELLMODEM-MI-06-AT-05 (included with IQ Combiner 5C)
Digital I/O	Digital input/output for grid operator control
USB 2.0	For Mobile Connect
Access point (AP) mode	For connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports	Up to two Consumption CTs, one IQ Battery CT, and one Production CT
Power line communication	90-110 kHz
Web API	Refer to https://developer-v4.enphase.com
Local API	Refer to guide for local API
COMPLIANCE	
IQ Combiner	UL 1741, CAN/CSA C22.2 No. 107.1, Title 47 CFR, Part 15, Class B, ICES 003
IQ Gateway	UL 60601-1/CANCSA 22.2 No. 61010-1, IEEE 1547:2018 (UL 1741-SB, 3 rd Ed.) IEEE 2030.5/CSIP Compliant Production metering: ANSI C12.20 accuracy class 0.5 (PV production)
COMPATIBILITY	
IQ System Controller 3/3G	SC200D111C240US01, SC200G111C240US01
IQ Battery 5P	IQBATTERY-5P-1P-NA
Microinverter	IQ6, IQ7, and IQ8 Series Microinverters



EVERLAST ENERGY & ROOFING
ADDRESS : 135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE: (860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS

DESCRIPTION	DATE	REV

DATE: 06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
**EQUIPMENT
SPECIFICATION**

SHEET SIZE
**ANSI B
11" X 17"**

SHEET NUMBER
PV-13

IQC-5-5C-DSH-00007-2.0-EN-US-2023-09-27

CrossRail 44-X



DATA SHEET



Part Number	Description
4000719	CrossRail 44-X 172", Mill
4000720	CrossRail 44-X 172", Dark
4000721	CrossRail 44-X 185", Mill
4000722	CrossRail 44-X 185", Dark
4000143	CrossRail 44-X 86", Mill



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-14

TECHNICAL DATA



Mechanical Properties

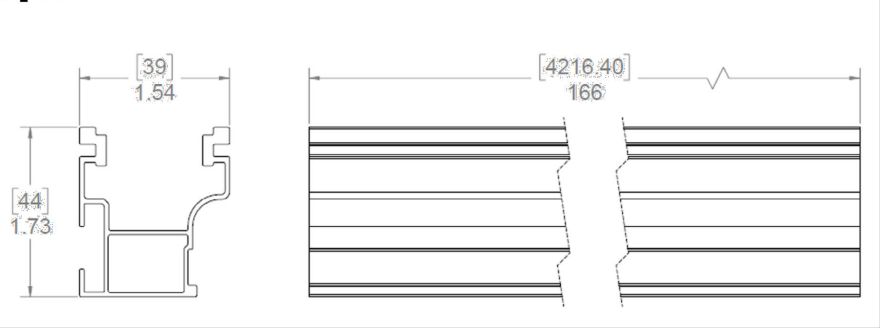
	CrossRail 44-X
Material	6000 Series Aluminum
Ultimate Tensile Strength	37.7 ksi (260 MPa)
Yield Strength	34.8 ksi (240 MPa)
Weight	.47 lbs/ft (0.699 kg/m)
Finish	Mill or Dark Anodized
Florida Product Approval	FL#46869

Sectional Properties

	CrossRail 44-X
Sx	0.149 in3 (0.3785 cm3)
Sy	0.145 in3 (0.3683 cm3)
A (X-Section)	0.405 in2 (1.0287 cm2)

LOAD		RAIL SPAN								
SNOW (psf)	WIND (mph)	32"	4'	64"	6'	80"	8'	112"	10'	12'
0	120									
0	140									
0	160									
10	120									
10	140									
10	160									
20	140									
20	160									
30	160									
40	160									
80	160									
100	160									
		44X/MAX	48X	48XL	CR80					

Units: [mm] in



- Notes:
- T Structural values and span charts determined in accordance with Aluminum Design Manual and ASCE 7-16
 - T UL2703 Listed System for Fire and Bonding





EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS		
DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

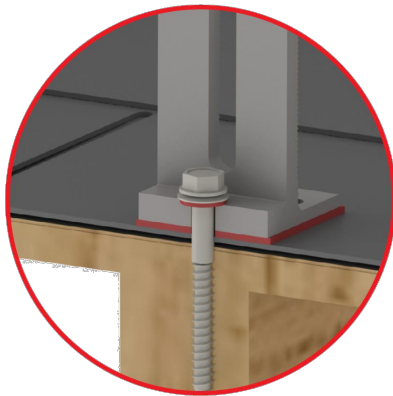
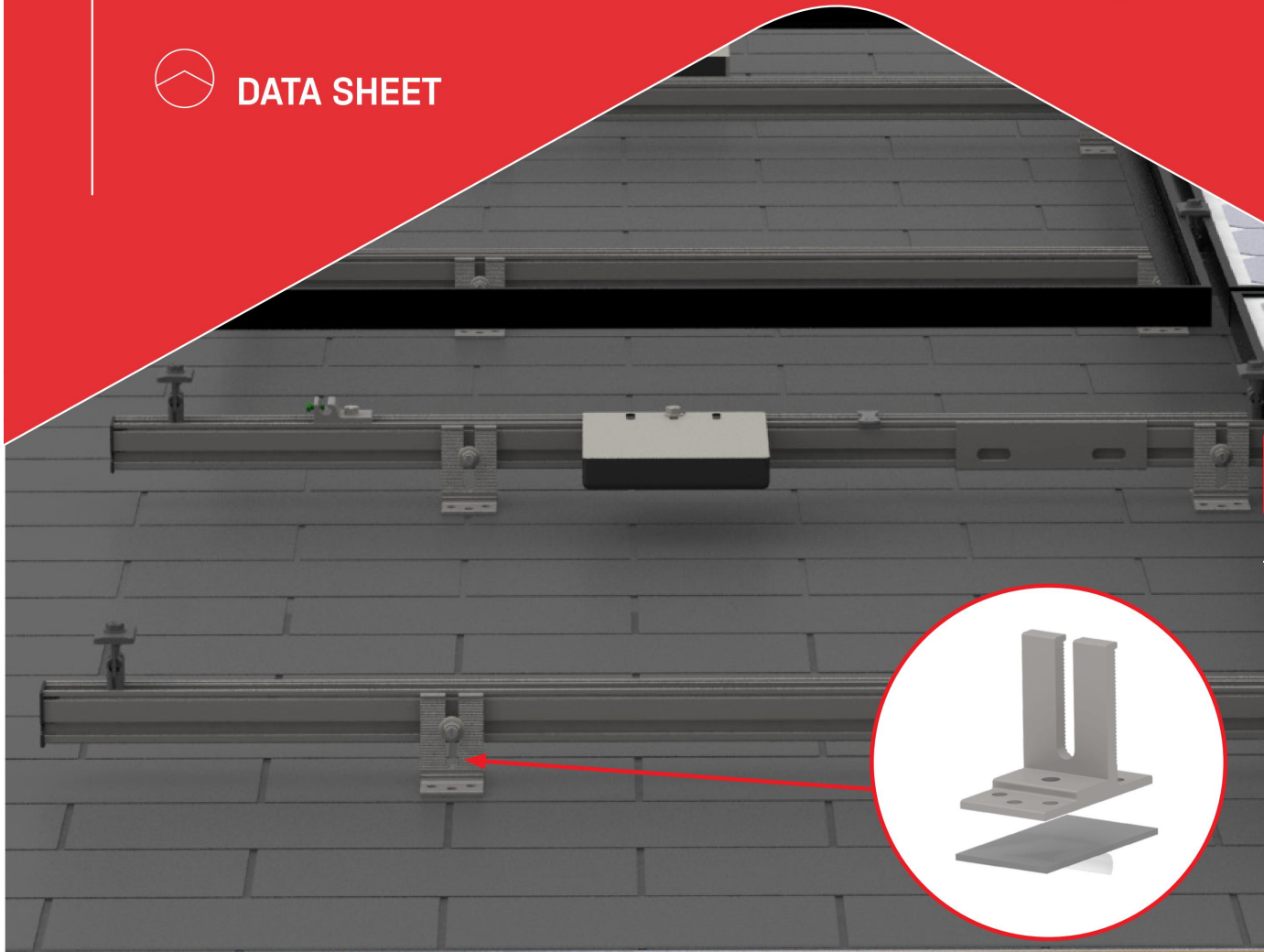
SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-15

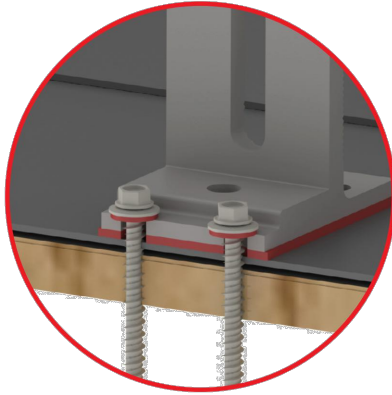
K2 Multi Mount, Kit



DATA SHEET



K2 Multi Mount, Kit
/ Rafter attachment with 1 lag bolt
/ Decking attachment with 4 screws



PRODUCT FEATURES



- / Pre-assembled with K2 EverSeal
- / Open slot design for rapid install to rail components with retention lip
- / Proven pullout value of **320lbs** for deck
- / Proven pullout value for lag screw of **1065lbs** for rafter
- / Optimized for 4in of clearance off the roofs surfaces



TECHNICAL DATA

	K2 Multi Mount, Kit
Part Number(s)	4000282 (mill), 4000284 (dark)
Application	3-45 degree parallel/flush attached and tilt up
Roof Type	Composition shingle, EPDM, TPO, Bitumen, Asphalt, Concrete and Metal
Material	Aluminum
Finish	Mill or Dark
Module Orientation	Portrait and landscape
Structural Validity	ASTM D7147, SEAOC 2, Based on ASCE 7-16
Certifications	UL 441 Section 27, Raining Test, TAS 100(A) -95
Warranty	25 years
	Roof Connection Options
Rafter 2 Screws	(2) #14 × 3" x 5/16" Hex Head Screw
Rafter Single Lag	(1) 5/16" lag screw to rafter
Deck 4 Screws	(4) #14 × 3" x 5/16" Hex Head Screw

REVISIONS

DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

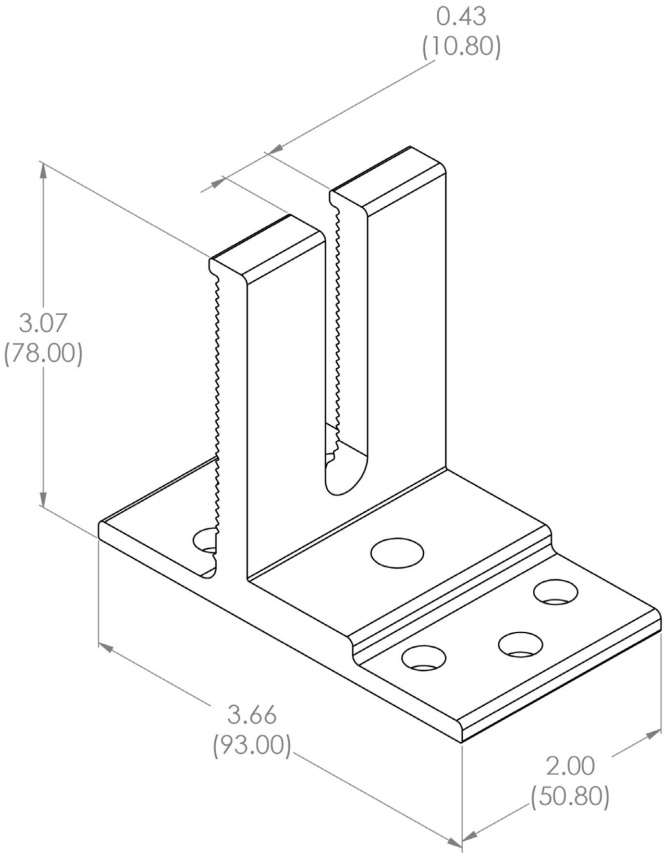
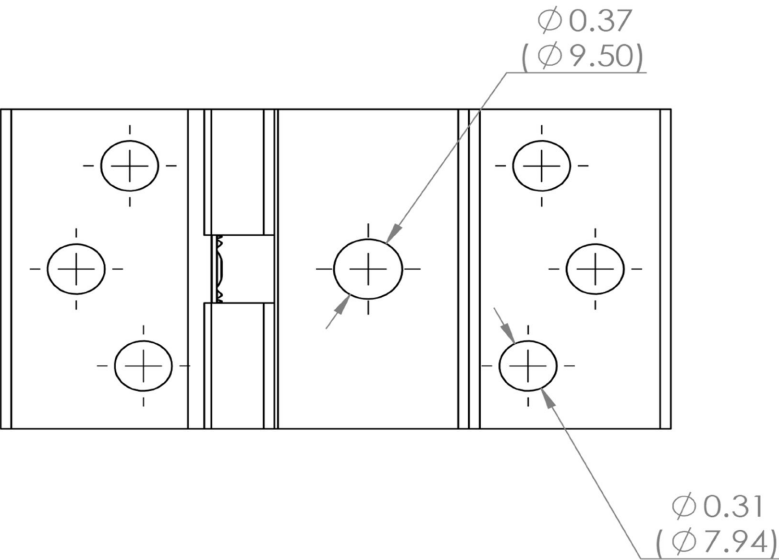
DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

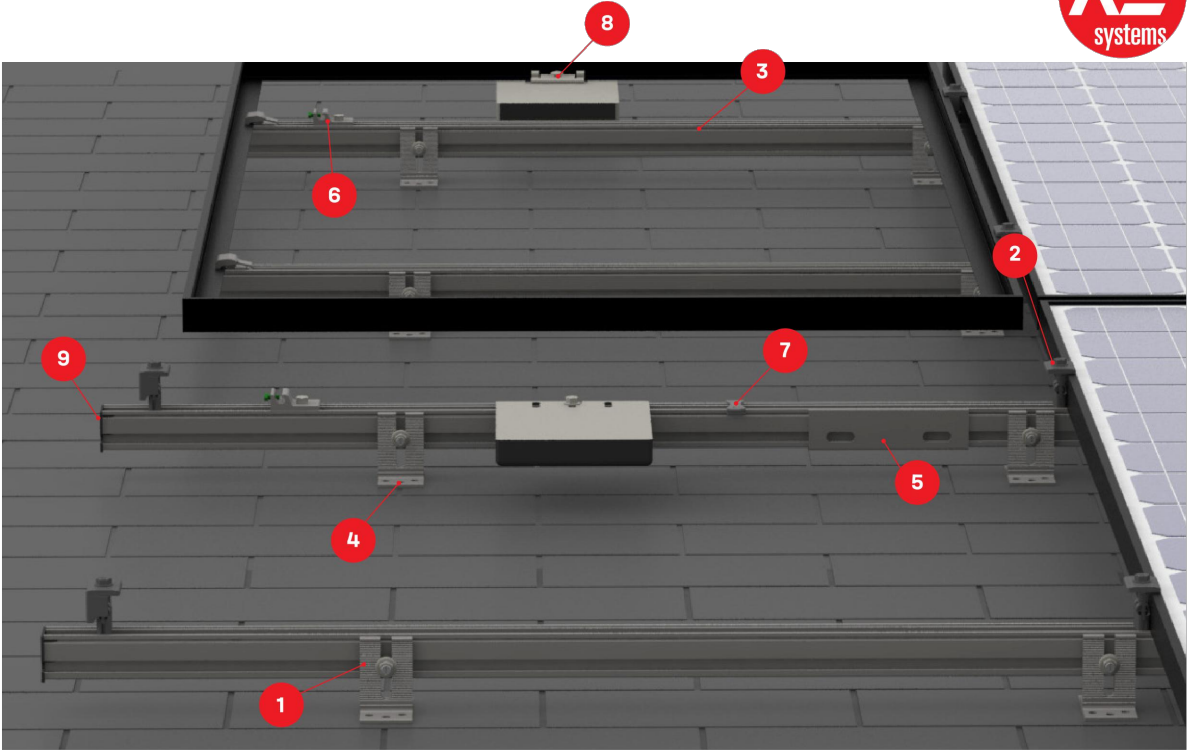
SHEET SIZE
ANSI B
11" X 17"

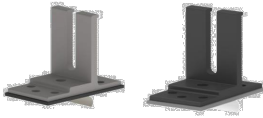
SHEET NUMBER
PV-16

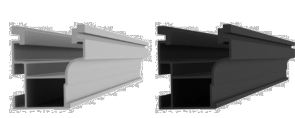
Units: mm [in]



K2 Multi Mount



- | | | |
|---|--|--|
| 1 4000282/4000284

K2 Multi Mount | 2 4000135/4000145
4000050-B

K2 Cross Clamp or Yeti Clamp | 3 4000719, 4000720
4000721, 4000722

CrossRail 44-X shown & listed
Works with all CR profile |
| 4 4000310 - Wood Screw

DR #14 x 3" x 5/16 Hex Head
Screw | 5 4000051-T/4000052-T

Toolless Rail Connector
CR 44-X | 6 4000006-H

K2 Ground Lug |
| 7 4000069
4000382
4005394

Wire Management
TC Wire Clip, SunRunner Clip,
Omega Clip | 8 4000083
4000629-H

MLPE Mounting Kits
MLPE Module Frame Mount,
CR Microinverter & Opt Mount Kit | 9 4000176

EndCap 44-X, K2 |

REVISIONS		
DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

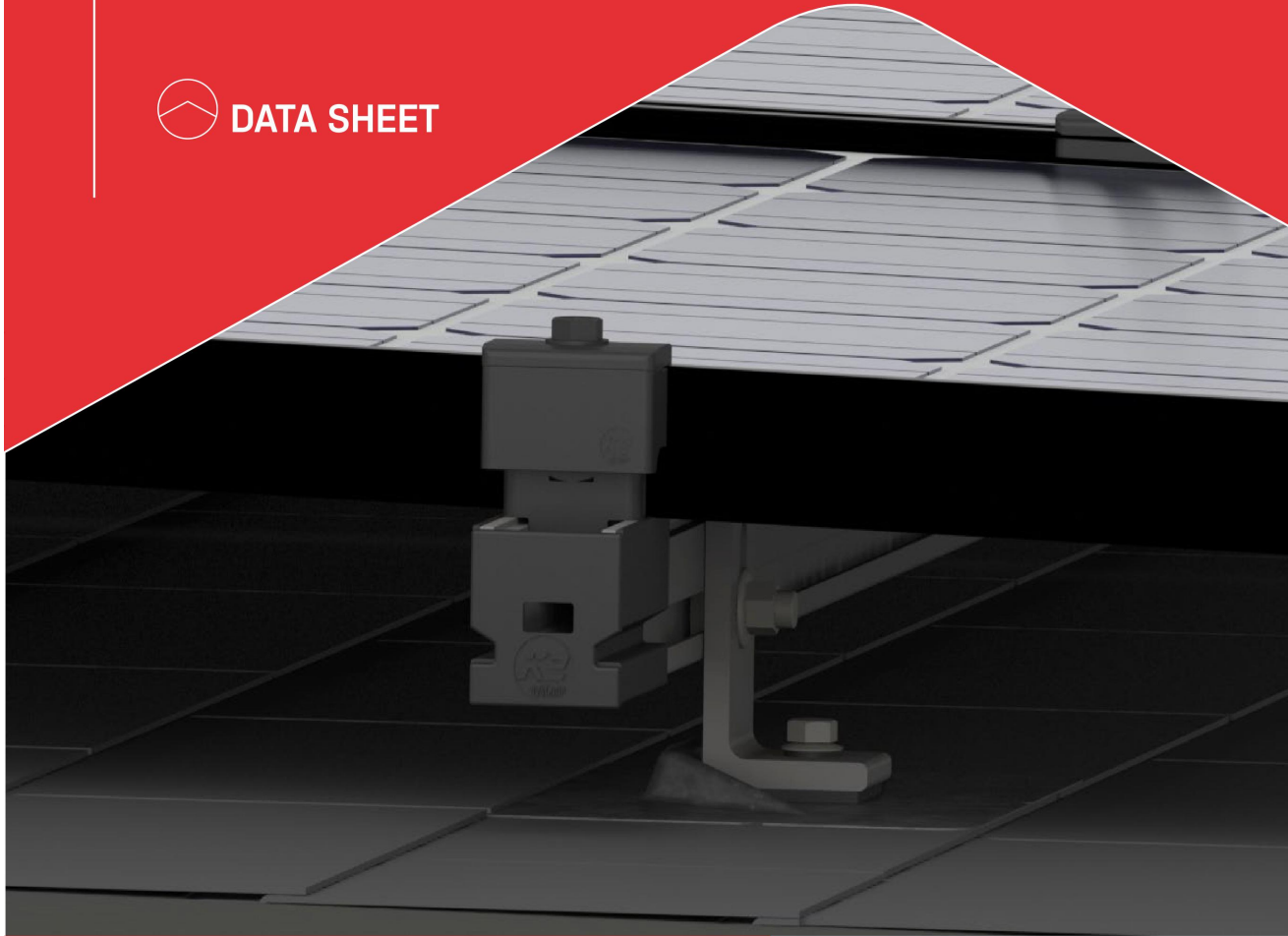
SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-17

K2 Cross Clamp



DATA SHEET



PRODUCT FEATURES

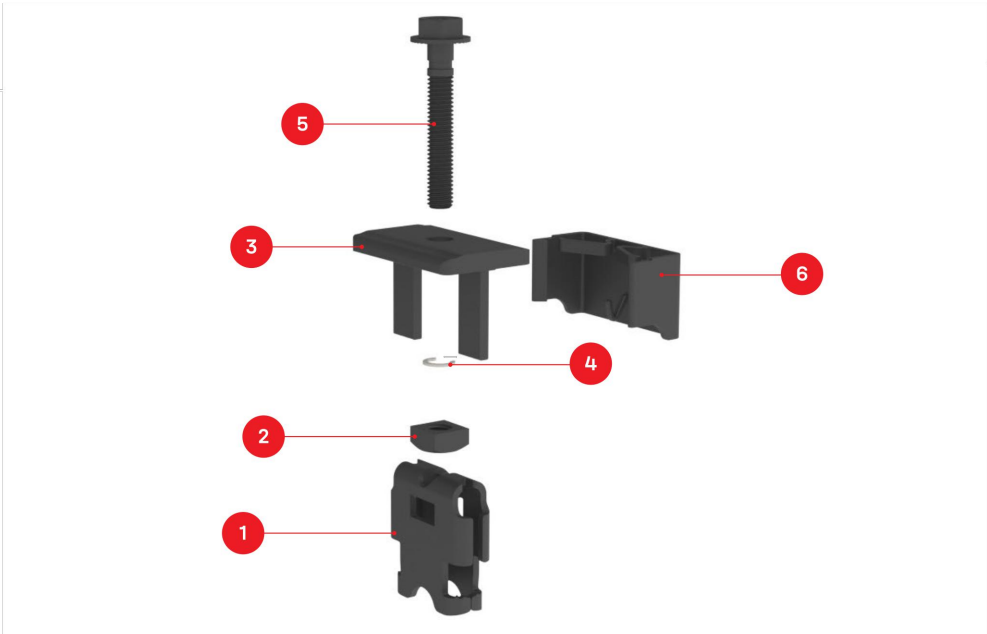


- / New and improved design
- / One handed and one tool installation
- / Mid and End Clamp functionality
- / Module frame compatibility of 30 - 45 mm
- / 1/2" inter-module gap

TECHNICAL DATA



	K2 Cross Clamp
Part Number(s)	4000135/4000135-US (Mill), 4000145/4000145-US (Dark)
Finish	Mill or Dark
Material	600 Series Aluminum and 304 Stainless Steel
Compatibility	CR 44X, 48X, 48XL, 80
Box Quantity	20
Warranty	25 years
Florida Product Approval	FL#46869



Item Number	Description	Part Number
1	K2 Cross Clamp M-E Base, Dark	4000135 K2 Cross Clamp Set, Mill 4000145 K2 Cross Clamp Set, Dark
2	M8×1.25, Square Nut SS	4000135-US K2 Cross Clamp Set, Mill, DC 4000145-US K2 Cross Clamp Set, Dark, DC
3	K2 Cross Clamp M-E Top 50mm	
4	Clearance External Retaining Ring	
5	Hex Head Bolt Serrated, M8×50mm	
6	K2 Cross Cap	4000312 K2 Cross Cap



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS

DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-18

CERTIFICATE OF COMPLIANCE

Certificate Number E467724
Report Reference E467724-20150108
Date 2021-April-07

Issued to: K2 Systems LLC
2835 La Mirada Dr, Suite A
Vista CA, 92081 US

This is to certify that
representative samples of

MOUNTING SYSTEMS, MOUNTING DEVICES,
CLAMPING DEVICES AND GROUND LUGS FOR USE
WITH PHOTOVOLTAIC MODULES AND PANELS

Everest Crossrail System, utilizing Crossrail 48, 48-S, 48-X,
48-XL, 44-X rails, and Everest MiniRail XPRESS System for
System Fire Classification and Bonding.

Everest CrossRail System, utilizing CrossRail 80 for
Bonding.

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 2703, Mounting Systems, Mounting Devices,
Clamping/Retention Devices, and Ground Lugs for use with
Flat-Plate Photovoltaic Modules and Panels.

Additional Information: See the UL Online Certifications Directory at
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up
Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's
Follow-Up Services.

Look for the UL Certification Mark on the product.

B. Mahlen

Bruce Mahlenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



EVERLAST ENERGY & ROOFING
ADDRESS :135 SHELDON RD,
UNIT H, MANCHESTER, CT 06042
PHONE:(860) 362-3129
EMAIL :
SUPPORT@EVERLASTENERGYCT.COM

REVISIONS

DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-19



A. System Specifications and Ratings

- Maximum Voltage: 1,000 Volts
- Maximum Current: **JB-1.2:** 80 Amps; **JB-1.XL:** 120 Amps
- Allowable Wire: 14 AWG – 6 AWG
- Spacing: Please maintain a spacing of at least ½” between uninsulated live parts and fittings for conduit, armored cable, and uninsulated live parts of opposite polarity.
- Enclosure Rating: Type 3R
- Roof Slope Range: 2.5 – 12:12
- Max Side Wall Fitting Size: 1”
- Max Floor Pass-Through Fitting Size: 1”
- Ambient Operating Conditions: (-35°C) - (+75°C)
- Compliance:
 - **JB-1.2:** UL1741, CSA C22.2 No. 290; **JB-1.XL:** UL1741, CSA C22.2 No. 290
 - Approved wire connectors: must conform to UL1741, CSA C22.2 No. 290
- System Marking: **Intertek Symbol and File #5019942**
- Periodic Re-inspections: If re-inspections yield loose components, loose fasteners, or any corrosion between components, components that are found to be affected are to be replaced immediately.



Table 1: Typical Wire Size, Torque Loads and Ratings

	1 Conductor	2 Conductor	Torque				
			Type	NM	Inch Lbs	Voltage	Current
ABB ZS6 terminal block	10-24 awg	16-24 awg	Sol/Str	0.5-0.7	6.2-8.85	600V	30 amp
ABB ZS10 terminal block	6-24 awg	12-20 awg	Sol/Str	1.0-1.6	8.85-14.16	600V	40 amp
ABB ZS16 terminal block	4-24 awg	10-20 awg	Sol/Str	1.6-2.4	14.6-21.24	600V	60 amp
ABB M6/8 terminal block	8-22 awg		Sol/Str	.08-1	8.85	600V	50 amp
Ideal 452 Red WING-NUT Wire Connector	8-18 awg		Sol/Str	Self-Torque	Self-Torque	600V	
Ideal 451 Yellow WING-NUT Wire Connector	10-18 awg		Sol/Str	Self-Torque	Self-Torque	600V	
Ideal, In-Sure Push-In Connector Part #59	10-14 awg		Sol/Str	Self-Torque	Self-Torque	600V	
WAGO, 2204-1201	10-20 awg	16-24 awg	Sol/Str	Self-Torque	Self-Torque	600V	30 amp
WAGO, 221-612	10-20 awg	10-24 awg	Sol/Str	Self-Torque	Self-Torque	600V	30 amp
Dottie DRC75	6-12 awg		Sol/Str	Snap-In			
ESP NG-53	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		
ESP NG-717	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		
Brumall 4-5,3	4-6 awg		Sol/Str		45	2000V	
	10-14 awg		Sol/Str		35		

Table 2: Minimum wire-bending space for conductors through a wall opposite terminals in mm (inches)

Wire size, AWG or kcmil (mm2)		Wires per terminal (pole)							
		1		2		3		4 or More	
		mm	(inch)	mm	(inch)	mm	(inch)	mm	(inch)
14-10	(2.1-5.3)	Not Specified		-		-		-	
8	(8.4)	38.1	(1-1/2)	-		-		-	
6	(13.3)	50.8	(2)	-		-		-	



REVISIONS

DESCRIPTION	DATE	REV

DATE:06/12/2026

PROJECT NAME & ADDRESS

KEITH OLENCHAK
RESIDENCE
72 FIRGLADE AVE,
SPRINGFIELD, MA 01108
METER NO. # 10 065 479

DRAWN BY
ESR

SHEET NAME
EQUIPMENT
SPECIFICATION

SHEET SIZE
ANSI B
11" X 17"

SHEET NUMBER
PV-20





























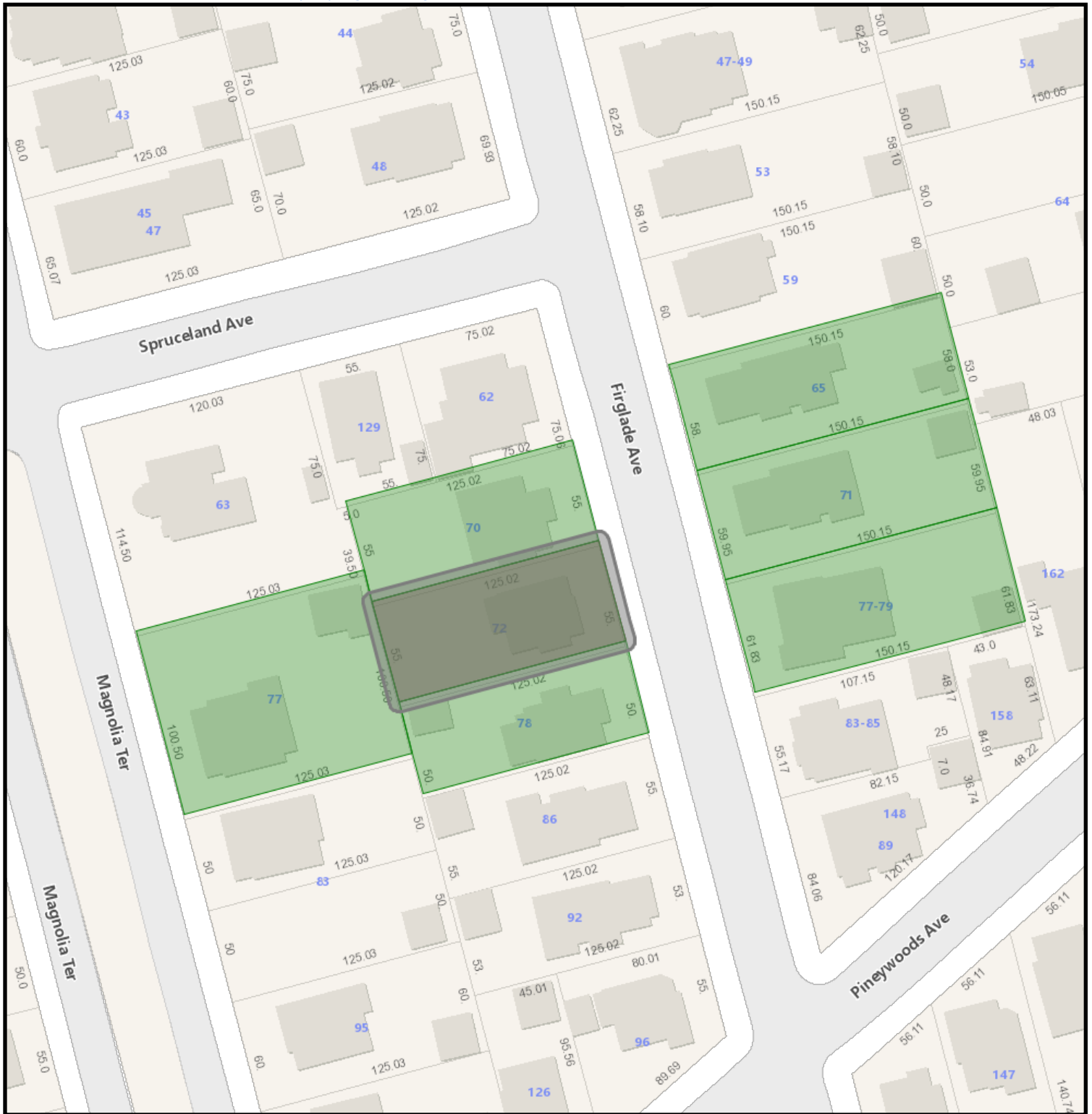












72 Firglade Avenue GIS Map

7/21/2026 1:27:12 PM

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.

051400047
COLLEGE RENTALS LLC
136 GRASSY GUTTER RD
LONGMEADOW, MA 01106

051400049
GREENE NEIL
389 INVERNESS LN
LONGMEADOW, MA 01106

051400012
KRUTIAK CHELSEA NICOLE &
70 FIRGLADE AVE
SPRINGFIELD, MA 01108

051400013
OLENCHAK KEITH &
72 FIRGLADE AVE
SPRINGFIELD, MA 01108

051400051
PEREZ-DELGADO KEVIN M
65 FIRGLADE AVE
SPRINGFIELD, MA 01108

081200050
SEARS BRIAN P TR & TANYA
77 MAGNOLIA TER
SPRINGFIELD, MA 01108

051400014
SHARRARD JAMES W AND
78 FIRGLADE AVE
SPRINGFIELD, MA 01108



Springfield Historical Commission



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

APPLICATION CHECKLIST

PROPERTY ADDRESS: 51 Clarendon Street, Springfield

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>July 14, 2026</i>	DECISION DATE:
HEARING DATE: <i>August 6, 2026</i>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <i>July 23, 2026</i>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <i>July 23, 2026</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: 72 Firglade Ave, 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: 72 Firglade Ave, Springfield, MA 01108		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Keith Olenchak		
OWNER ADDRESS: ☐ Check box if same as property address 72 Firglade Ave, Springfield, MA 01108		
OWNER PHONE NUMBER:	REPRESENTATIVE/CONTRACTOR NAME: EVERLAST ENERGY LLC	
OWNER EMAIL ADDRESS:	REPRESENTATIVE/CONTRACTOR PHONE NUMBER:	
PROPERTY CODE:	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Installation of Solar system - 19 panels with Micro inverters - No battery system		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.

07/13/2026

PROPERTY OWNER'S SIGNATURE

DATE

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:	PlyGem	
MODEL NUMBER(S):	Mastic-Carvedwood 44	
BUILDING SIDE(S) FOR PROPOSED SIDING:	all	
	EXISTING	PROPOSED
MATERIAL (e.g. wood, stucco, brick, non-wood shingle):	wood	vinyl
SIDING PATTERN (e.g. clapboard, bevel etc):	clapboard	clapboard
WINDOW CASING DIMENSIONS:	3"	3"
DOOR CASING DIMENSIONS:	3"	3"
CORNER BOARD DIMENSIONS:	4"	4"
CORNICES DIMENSIONS:		
FRIEZE BOARD DIMENSIONS:	6"	6"
SHUTTER DIMENSIONS:	n/a	n/a

PLEASE PROVIDE DETAILS ABOUT THE CONDITIONS OF THE EXISTING SIDING:

Current siding is peeling, and is deteriorating. Pieces of fascia boards have fallen off. Gutters are missing. See attached photos

PLEASE PROVIDE THE REASON FOR WANTING TO REPLACE THE SIDING:

Our request for vinyl siding is based on two important considerations.
 First, the remaining grant funding is limited. Using vinyl siding will allow us to complete these additional repairs within the available budget. The homeowners are income-qualified and do not have the financial means to absorb the additional cost of wood siding.
 Second, the homeowners are older adults, and vinyl siding requires significantly less maintenance than wood. Selecting a durable, low-maintenance material will help ensure the home's appearance can be maintained for many years, protecting both the homeowners' investment and the character of the neighborhood.

ADDITIONAL INFORMATION:

see attached

July 13, 2026

Springfield Historic Commission
70 Tapley Street
Springfield MA 01104

To Whom it May Concern,

I, Kenneth Walker of 51 Clarendon Street, Springfield give Greater Springfield Habitat for Humanity permission to speak on our behalf at the upcoming Commission meeting regarding proposed repairs to our home.

Thank you,



Kenneth Walker

Jim Boone
97 Florida St
Springfield, Mass 01109

August 4, 2026

Springfield Historical Commission

Re:51 Clarendon St

Commissioners,

I strongly object to the proposal to replace wood clapboard siding with vinyl siding. This is a solution that simply hides conditions that lead to paint deterioration and no matter how well done, changes the look and architectural integrity of a Queen Anne home in the McKnight Historic District.

More than 20 homes in McKnight have had their artificial siding removed. Contradictory to now add artificial siding.

The Commission has consistently, and rightfully so, denied the usage of artificial vinyl siding on all new construction projects in McKnight. Adding it to existing homes makes no sense. The Commission has not approved new vinyl siding in the past.

Having a house have artificial siding reduces the value of the homes around it as architectural consistency and standards are what make our historic districts valuable and appreciated. What may be acceptable by agencies building affordable housing in other parts of the city, is not acceptable in Springfields Historic Districts.

I appreciate the work of Habitat, but if they want to help homeowners in Local Historic Districts, they must budget appropriately to assure that work will meet the Districts Requirements. I encourage a review of Habitats budget and expect funds to be found so this job will be done properly.

Thank You

Jim Boone.

Cc McKnight Neighborhood Council

Springfield Preservation Trust.

July 13, 2026

Springfield Historical Commission
36 Court Street
Springfield MA 01113

Re: 51 Clarendon Street, Springfield MA

Dear Members of the Springfield Historical Commission:

Greater Springfield Habitat for Humanity is currently completing repairs to the home at **51 Clarendon Street, Springfield**, through our Home Preservation Program with funding provided by MassHousing's Gateway Housing Rehabilitation Program. This state-funded program assists income-qualified homeowners in preserving safe, healthy housing.

As part of this project, and in accordance with the Commission's previous approval, we have completed significant improvements to the property, including:

- Replacement of the front walkway
- Resurfacing of the front stairs
- Waterproofing of the basement entry and replacement of the bulkhead
- Replacement of the rear stairs
- Reconstruction of the front porch

We appreciate the Commission's prior approval of the porch rehabilitation and have completed that work while maintaining the historic character of the home.

During construction, we identified an opportunity to address the deteriorated exterior siding. We believe these repairs would not only benefit the homeowners but would also further the goals of the McKnight Historic District by preventing continued deterioration of this historic property. Fortunately, we have limited funding remaining within the existing MassHousing grant that may allow us to complete this additional work.

We respectfully request approval to replace the existing deteriorated wood clapboard siding with **woodgrain vinyl clapboard siding**. As outlined in the McKnight Historic District Guidelines, replacement of wood clapboard with vinyl clapboard may be approved on a case-by-case basis, provided the original appearance of the home is maintained. We also note that several neighboring homes within the district utilize vinyl siding.

To preserve the home's historic appearance, we propose:

- A light gray-blue clapboard color matching the existing siding.
- Retaining the darker blue window trim.
- Preserving the existing 6-inch trim board details.
- Retaining the decorative gable shingles, consistent with the recently restored front porch.

Color samples are enclosed for your review.

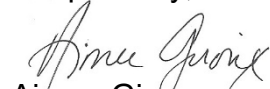
Our request for vinyl siding is based on two important considerations.

First, the remaining grant funding is limited. Using vinyl siding will allow us to complete these additional repairs within the available budget. The homeowners are income-qualified and do not have the financial means to absorb the additional cost of wood siding.

Second, the homeowners are older adults, and vinyl siding requires significantly less maintenance than wood. Selecting a durable, low-maintenance material will help ensure the home's appearance can be maintained for many years, protecting both the homeowners' investment and the character of the neighborhood.

We appreciate the Commission's consideration of this request and your continued commitment to preserving the historic character of the McKnight neighborhood. We believe this proposal balances the need for historic preservation with the practical realities of maintaining affordable housing for long-time Springfield residents. We would be pleased to answer any questions or provide any additional information the Commission may require.

Respectfully,



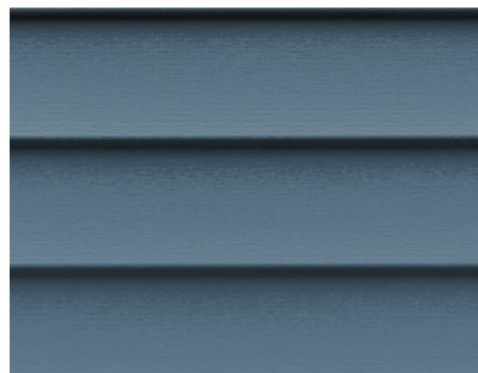
Aimee Giroux
Executive Director

Proposed Scope of Work

- Install 3/8-inch foam insulation over the existing siding.
- Install 4-inch woodgrain vinyl clapboard siding in **Everest**.
- Fur out the existing window trim as needed and wrap the trim with coordinating **Bayou Blue** aluminum coil stock.
- Install new outside corner boards, band boards, and frieze boards in **Silver Gray** trim color.
- Remove and replace any deteriorated fascia boards with new boards matching the existing crown molding profile and design.
- Install new gutters and downspouts.
- Maintain the existing architectural trim details and overall appearance of the building in accordance with the approved design and the McKnight Historic District Guidelines.



Mastic, Everest – Clapboard



Mastic, Bayou – Trim

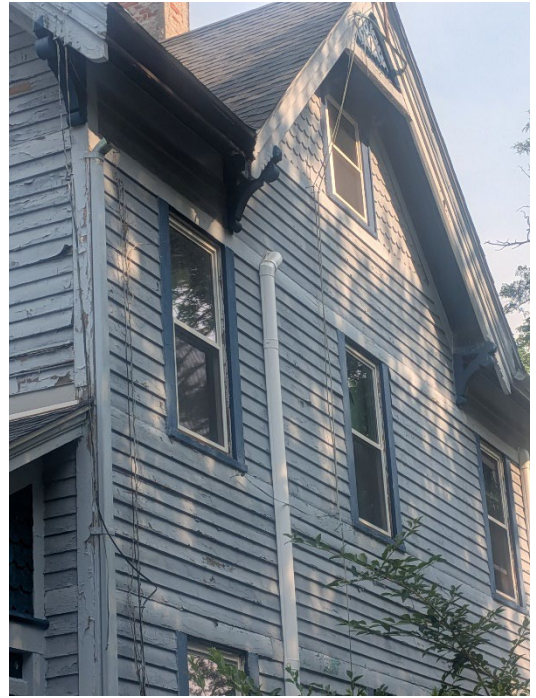
**Colors may appear different on digital devices due to screen resolution setting*

Proposed Siding design



Current Siding Conditions







CARVEDWOOD•44[®]

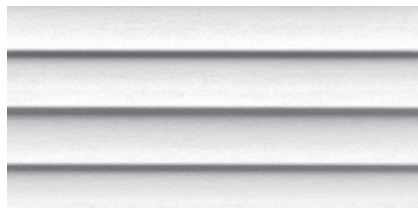
VINYL SIDING

MAKE MORE POSSIBLE.



This page: Carvedwood•44° in White

Cover Image: Carvedwood•44° in Misty Shadow



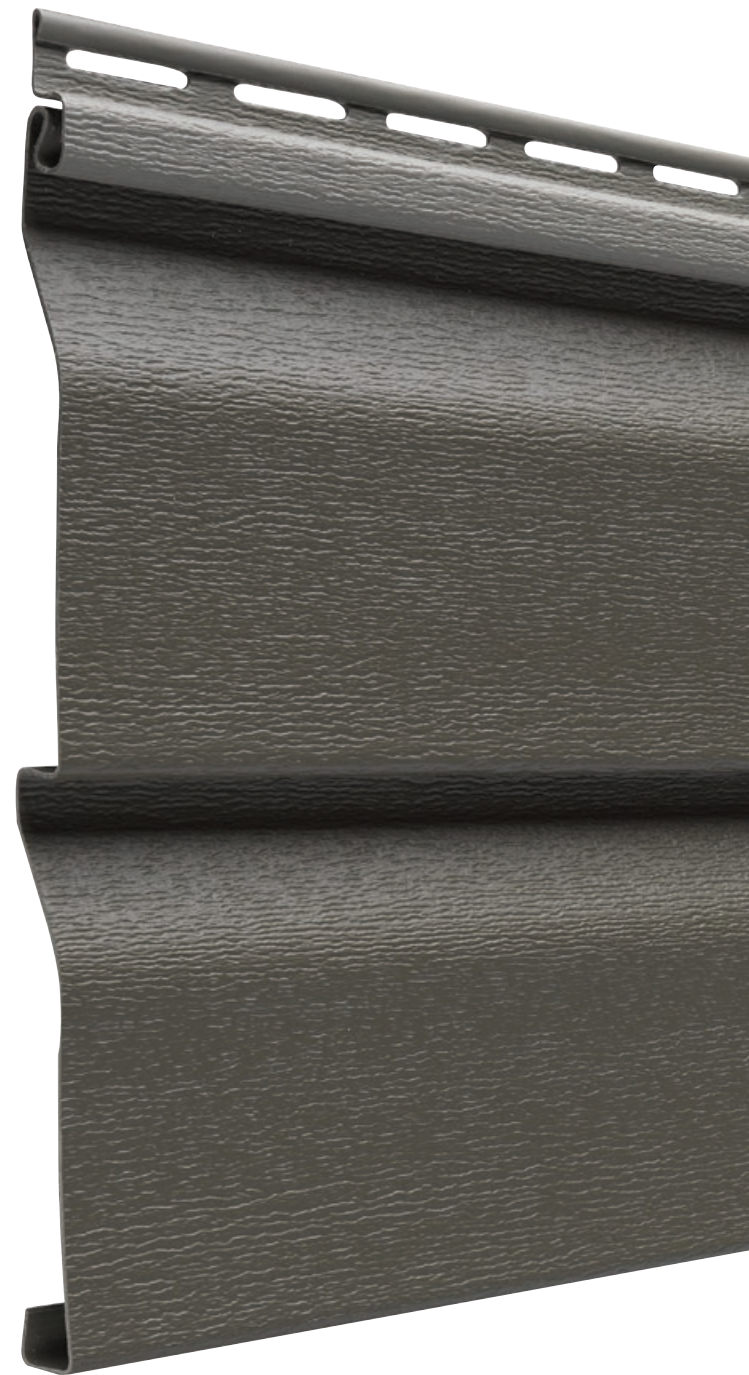


CARVEDWOOD•44[®]

VINYL SIDING

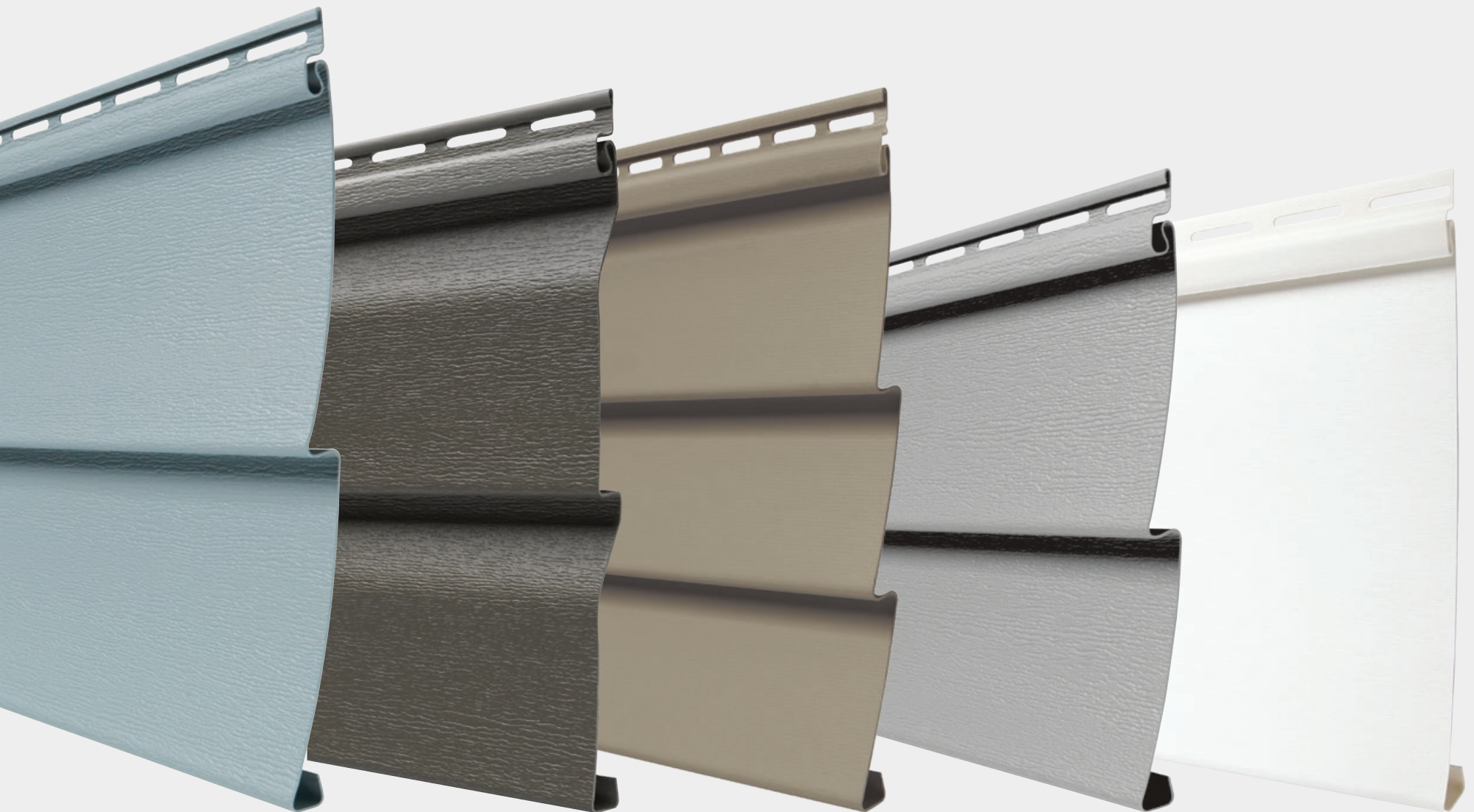
Designed for beauty. Engineered to last.

Carvedwood•44[®] delivers strength, durability, the beauty of real wood and endless design options. Offered in 40 stunning colors, five distinct profiles and two attractive finishes, smooth and woodgrain, Carvedwood•44 is the ideal choice for a virtually maintenance-free home exterior.



CARVEDWOOD•44

PROFILES



D5

**DOUBLE 5"
TRADITIONAL LAP**
Woodgrain

DL

**DOUBLE 4-1/2"
DUTCH LAP**
Woodgrain

T3

**TRIPLE 3"
TRADITIONAL LAP**
Smooth

D4

**DOUBLE 4"
TRADITIONAL LAP**
Woodgrain

S8

**SINGLE 8"
TRADITIONAL LAP**
Smooth



.044" NOMINAL THICKNESS

Superior thickness and impact resistance.



WIND VELOCITY

— RATED UP TO 153 MPH, ASD*

Standard Wind Load Design Pressure of 56 PSF, ASD*

MIAMI-DADE COUNTY
APPROVED



T-2 LOK®

Locking system delivers a positive locking action with a wider locking mechanism for more contact area.†



ROLLOVER, REINFORCED NAIL HEM†

Easier installation — more precise and secure fastening.



5/8" PANEL PROJECTION

Enhanced shadow lines replicate the appearance of real wood panels.



HANG-TOUGH™ TECHNOLOGY

Exclusive formulation and process boosts durability so panels are more resistant to cracking, impact and thermal distortion. As an added benefit, rich color resides throughout the panel — virtually eliminating the appearance of nicks and minor surface scratches.



DURANYL® 5000 PROTECTION SYSTEM

Proprietary technology adds extra UV protection to our deepest, most vivid colors — protects color against harsh elements and maximizes long-term weatherability.



BREATHE EASY

Cutting does not produce harmful silica dust which can cause lung disease.



SUSTAINABLE

Crafted of readily available natural materials — our vinyl siding is safe, sustainable and recyclable.



CLASS 1(A) FIRE RATING

*Tested in accordance with ASTM D5206, Zone B, 30' building height.

Design pressure requirements will vary depending on specific code region and construction method. Refer to local building codes.

†Single 8" panel features a unique, advanced locking system and nail hem.

CARVEDWOOD•44

COLOR KEY

LIGHT COLORS	D5	DL	T3	D4	S8
Almond	•	•	•	•	
Cameo	•	•	•	•	
Classic Cream	•	•	•	•	
Colonial Yellow	•	•	•	•	
Desert Sand	•	•	•	•	
Linen	•	•	•	•	
Sage	•	•		•	
Sandtone	•	•	•	•	
Silver Grey	•	•	•	•	
Tuscan Olive	•	•	•	•	
Victorian Grey	•	•	•	•	
Wicker	•	•	•	•	
White	•	•	•	•	•

CLASSIC COLORS	D5	DL	T3	D4	S8
Corn Silk	•	•		•	
Everest	•	•	•	•	
Harbor Grey	•	•	•	•	
Pebblestone Clay	•	•	•	•	
Scottish Thistle	•	•	•	•	

PREMIUM DEEP COLORS	D5	DL	T3	D4	S8
Autumn Harvest		•		•	
Bayou		•		•	
Brunswick		•		•	
Deep Granite	•	•		•	
English Wedgewood	•	•		•	
Lakeshore Fern		•		•	
Misty Shadow		•		•	
Modern Iron		•		•	
Montana Suede		•		•	
Quiet Willow	•	•		•	
Rugged Canyon	•	•		•	
Russet Red		•		•	
Vintage Dublin		•		•	

Due to printing limitations, colors may not be exactly as shown. Refer to actual sample and color chips for best match.

OUR MOST LUXURIOUS COLORS FEATURE SOLARDEFENSE REFLECTIVE TECHNOLOGY™

Whatever architectural style you prefer will be enhanced with lap siding in deep, rich luxurious colors. And with SolarDefense Reflective Technology, you don't have to worry about fading or distortion because each board is engineered to resist the sun's harshest UV rays. So go ahead, splurge on one of these deep hues you've always wanted, knowing they'll stay looking fresh and dreamy for years to come.

SOLARDEFENSE COLORS	D5	DL	S8	D4	T3
Alpine Forest		•		•	
Brandy Wood		•		•	
Deep Cavern		•		•	
Natural Slate		•		•	
Newport Bay		•		•	
Red Brick		•		•	
Rock Harbor		•		•	
Whispering Timber		•		•	
Woodland Retreat		•		•	



SolarDefense
REFLECTIVE TECHNOLOGY™



BEST IN CLASS

**V.I.P. LIMITED
LIFETIME
WARRANTY**

**NO FADE
NO DISTORTION
PROMISE™**

TOP LAYER

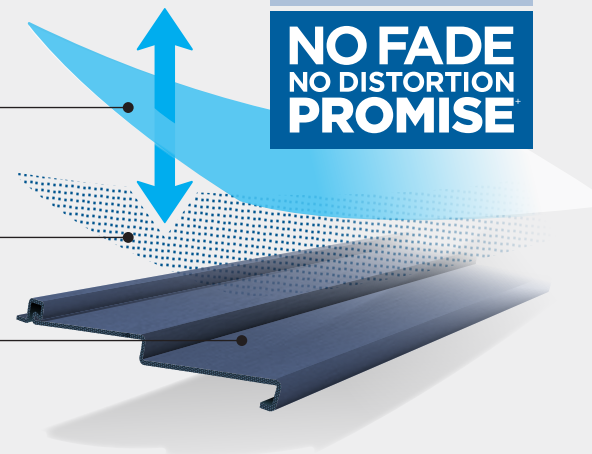
Disperses heat and helps resist fading by allowing light energy to flow both ways.

COOLING COMPOUND

Scatters light, reflecting heat away, keeping panels cooler.

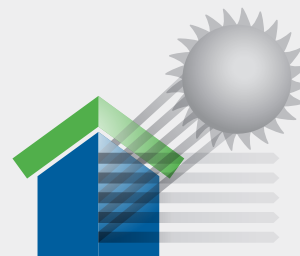
BASE LAYER

Stands up to heat, preventing distortion.



THE BEST PROTECTION FOR THE BOLDEST COLORS

Engineered to absorb less of the sun's heat, our newest, darkest colors are designed to resist fading and heat distortion better than ever. Our tough UV-stable polymer stands up to damaging rays. New cooling compounds scatter more light to reflect more heat away from the siding, and keep panels cooler even on the hottest days. SolarDefense Reflective Technology is so effective at protecting our boldest, darkest colors from the sun that we back it with an unmatched No Fade, No Distortion Promise.*



**SOLARDEFENSE PANELS
REFLECT UV RAYS TO PREVENT
FADING AND DISTORTION.**

+ Warrantied against (i) fade in excess of a Delta E of 1 Hunter unit and (ii) heat distortion from normal climate conditions or normal reflective light sources. See product warranty for details and terms and conditions.

ALPINE
FOREST

BRANDY
WOOD

DEEP CAVERN

NATURAL
SLATE

NEWPORT
BAY

RED
BRICK

ROCK
HARBOR

WHISPERING
TIMBER

WOODLAND
RETREAT

VINYL SIDING DELIVERS WHAT HOMEOWNERS WANT.

MOST IMPORTANT FACTORS IN SIDING MATERIAL ACCORDING TO HOMEOWNERS:

DURABILITY	45%
COST OF MATERIAL	34%
VISUAL APPEARANCE	32%
WARRANTY	27%
BRAND	25%
RESISTANCE TO WATER	25%
LITTLE TO NO MAINTENANCE	25%
COST OF LABOR	20%
INSULATION	18%

Source: Ply Gem primary research, December 2020



DURABILITY

If you're looking for siding that is durable and low maintenance, and looks beautiful, Carvedwood•44 siding is the ideal choice. Carvedwood•44 will enhance your home's appearance today — and for years to come.



COLOR AND TEXTURE

Featuring a realistic wood grain, Carvedwood•44 is available in a wide range of shades, including bold, dark colors backed by our SolarDefense Reflective Technology™. SolarDefense is engineered to absorb less of the sun's heat, our newest, darkest colors are designed to resist fading and heat distortion better than ever. Our tough UV-stable polymer withstands damaging rays. New cooling compounds scatter more light to reflect more heat away from the siding, and keep panels cooler even on the hottest days.



LIFETIME WARRANTY

Carvedwood•44 vinyl siding is backed by our V.I.P. Limited Lifetime Warranty, which covers against manufacturing defects, excessive fading and hail damage for as long as you own your home. To protect your investment, the warranty is transferable in the event you sell your home (see warranty for details).



THIRD-PARTY TESTED FOR QUALITY

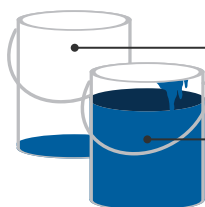
Mastic vinyl siding products are certified through the Vinyl Siding Institute (VSI), which sponsors third-party certification to ensure vinyl siding quality. Mastic vinyl siding meets or exceeds ASTM D3679 performance standards for impact resistance, weatherability, product thickness and performance in extreme conditions — all requirements in the VSI certification program.*

*Consult the VSI website at polymericexteriors.org for a current list of certified products and colors.



NEVER NEEDS PAINTING OR STAINING

Unlike wood, stucco or fiber cement, Carvedwood•44 vinyl siding never needs painting or staining, which saves you time and money year after year.



COMPARE MAINTENANCE COSTS

Carvedwood•44: \$5
(just soap and water)

Other cladding options: up to \$6,000
(Based on typical prep, caulking and repainting of the average home)

WE TEST OUR VINYL SIDING RIGOROUSLY & RELENTLESSLY.

OIL CAN TEST

Siding panels are placed under heat strips and saturated to 120° — 140°F to make sure the siding doesn't warp or buckle.

WEATHERING

Color retention (resistance to fading) is tested by subjecting Mastic products to real-time weather conditions and accelerated UV testing. This ensures that Mastic products will hold up in the most extreme environmental conditions.

RIGIDITY

Panels are designed and engineered to be more rigid so the siding remains straight on the wall.

COLOR READ TEST

Using a spherical spectrophotometer, a 10,000-watt xenon flash tube bounces light off a siding panel. This information is then analyzed to determine if the color falls within accepted ranges for color consistency and match.

VERTICAL HEIGHT IMPACT TEST

Measures the product's durability and ability to resist impact forces — the result of proper thickness, formulation and impact modifiers.

GLOSS TEST

A digital readout microgloss meter is used to scan siding to determine if its gloss falls within a target range. Gloss is important to the aesthetic appeal of the siding.

A HEALTHY HOME STARTS WITH THE BASICS

You want the best health for your family — and that starts at home. We offer a full line of coordinating accessories so your home can be healthy from the outside in.



WHY DOES VENTILATION MATTER?

Vents protect your home from heat and moisture buildup and keep fresh air moving. Sturdy and well-built, Ply Gem vents are specially engineered to deter insects, birds and other animals. They're easy to install on all types of siding and come in hundreds of colors and a variety of designer styles. Best of all, Ply Gem vents are constructed of high-performance, long-lasting vinyl ensuring a lifetime of low maintenance.



UTILITY VENTS

Sturdy utility vents provide excellent cross-ventilation for garages, foundations, and range hoods. The louvered exhaust vent is ideal for removing moist air from dryers and bathrooms. Intake louvers and soffit intakes work in tandem with the vents to maximize airflow, helping your family breathe easier. With our utility vents, your home not only looks beautiful but also feels fresher.



GABLE VENTS

Typically installed at the peak of a roof, gable vents promote proper airflow in your attic. Ply Gem gable vents provide maximum ventilation and feature a special snap-on system for easy installation and cleaning. Whether you prefer your gable vents to blend seamlessly with your siding or stand out as a decorative accent, you'll find a variety of stylish options.



VENTURA® HIDDEN VENT SOFFIT

Sculpted in clean lines and smooth surfaces, Ventura Hidden Vent Soffit features a contemporary, long clear span design. It allows 50% more airflow, reducing utility bills and preventing mold and mildew damage.

THE TOTAL DESIGNED EXTERIOR

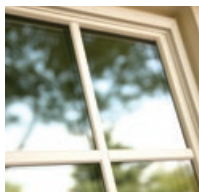
The Ply Gem portfolio of brands and solutions deliver national coverage of the industry's most comprehensive portfolio of designed exterior products that are perfect for any job—and every home, as well as a full offering of solutions designed to support building professionals.



THE PLY GEM PORTFOLIO OF BRANDS & SOLUTIONS



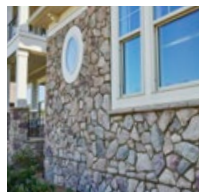
SIDING



WINDOWS



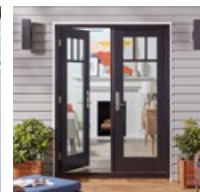
SHUTTERS



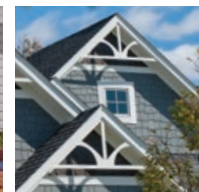
STONE
VENEER



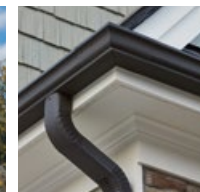
FENCE &
RAILING



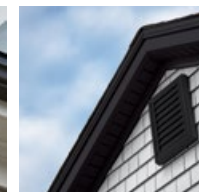
PATIO
DOORS



TRIM &
MOULDINGS



METAL &
RAINWARE



ACCESSORIES



VISUALIZE YOUR TRANSFORMATION

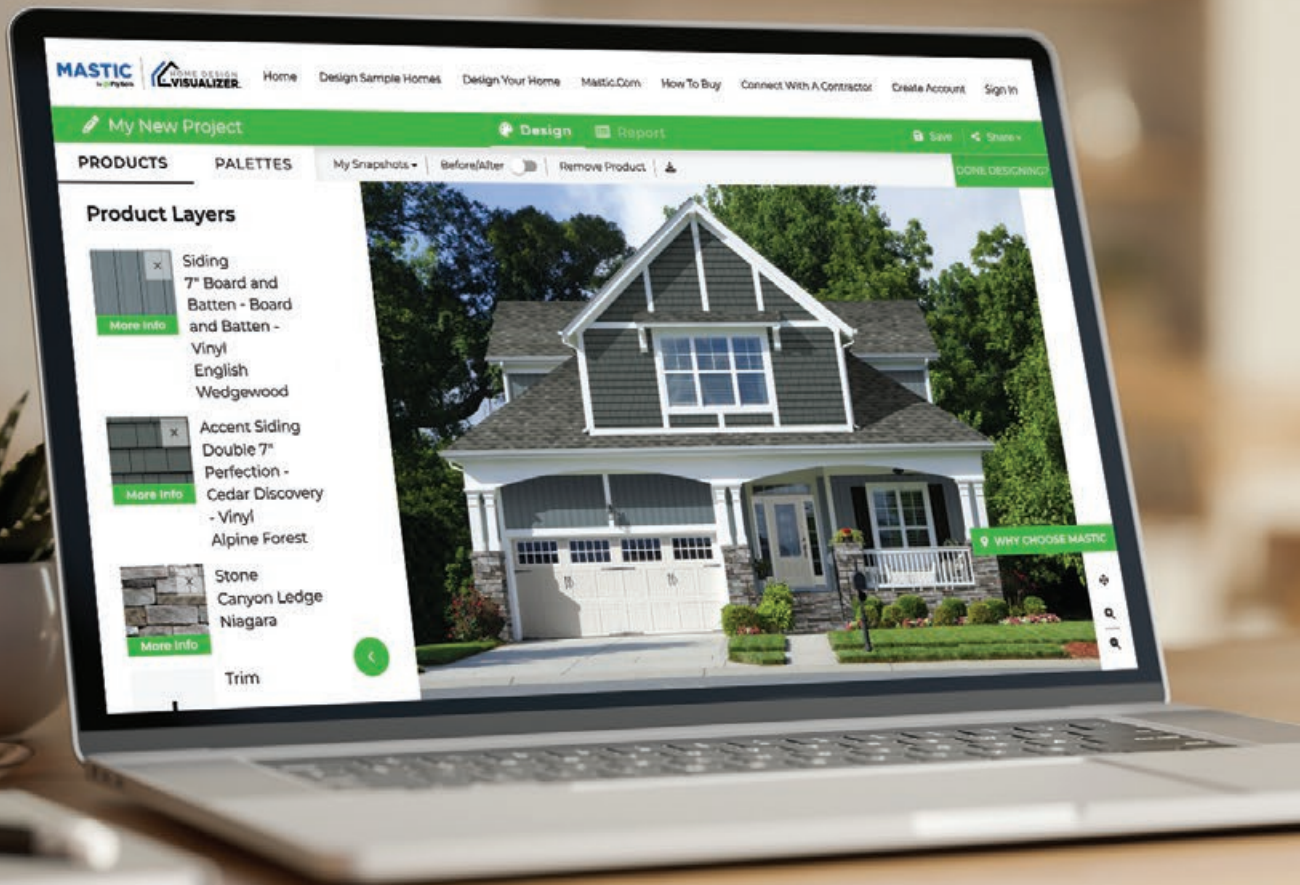
Are you ready to see what's possible for your home? With our Mastic® Home Design Visualizer tool, it's easy to begin designing your dream home. Bring your vision to life at mastic.com/visualizer.

GET STARTED

Simply snap a photo and go, or jump-start your imagination with some of our sample homes.

ADD COLOR + VISUALIZE

Explore expert insights on color and accents that will broaden your perspective on what's possible with your home exterior renovation.





MAKE MORE POSSIBLE.

Mastic by Ply Gem is backed by the resources and reach of Cornerstone Building Brands, the nation's largest manufacturer of exterior building products, and supported by a team of dedicated professionals who provide an unrivaled level of experience and expertise to our nationwide network of distributors.



We reserve the right to alter, modify or delete items from time to time without notice. Due to printing limitations, colors may not be exactly as shown. Contact your distributor or sales representative for actual product and color samples.



MASTIC.COM | 800-962-6973
5020 Weston Parkway, Cary, NC 27513

© 2026 Mastic Home Exteriors Inc, part of **Cornerstone Building Brands, Inc.**
ALL RIGHTS RESERVED. 7601094031101/Revi/MS/IMG/0426



PART OF THE CORNERSTONE BUILDING BRANDS FAMILY | SIDING | WINDOWS | PATIO DOORS | STONE VENEER | TRIM + MOULDINGS | FENCE + RAILING | SHUTTERS + ACCESSORIES | METAL + RAINWARE



70 TAPLEY STREET
SPRINGFIELD, MA 01104
413.787.6020
www.springfield-ma.gov

NOTICE OF DECISION

The SPRINGFIELD HISTORICAL COMMISSION has voted **TO APPROVE** a
CERTIFICATE OF APPROPRIATENESS for the following property:

51 Clarendon Street
Property

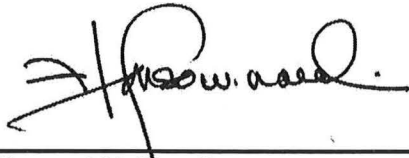
Kenneth G & Roger A Walker
Owner
51 Clarendon Street
Springfield, MA 01109

District: McKnight

The approved project involves the repair of the front porch with no changes in design or style, as well as the replacement of second floor porch windows, as proposed in the submitted scope of work and presented to the Commission during the January 16, 2025 hearing. Notable repairs in the scope of work include:

- Replacement of the lattice with like design and materials;
- Replacement of any rotted lower porch posts with posts of like design and materials;
- Replacement of the decking with like design and materials – fir tongue and groove wood running perpendicularly to the building;
- Replacement of the upper posts and rails, where applicable, with like design and materials – douglas fir wood;
- Replacement of the second-floor porch windows with like design and materials; and
- Continued use of the existing pipe hand rail relating to the porch stairs;

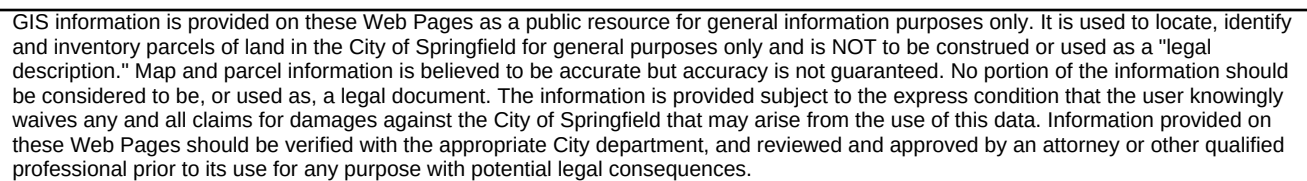
Date Issued: **January 17, 2025**



Alfonso W. Nardi, Chairman 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



028200008
BURRELL STEPHEN
48 CLARENDON ST
SPRINGFIELD, MA 01109

028200009
HOBERT LAURA
52 CLARENDON ST
SPRINGFIELD, MA 01109

036400011
ROWLAND ALEXANDRA
66 DARTMOUTH ST
SPRINGFIELD, MA 01109

036400010
SOTAK LISA
60 DARTMOUTH ST
SPRINGFIELD, MA 01109

028200055
SPRINGFIELD CITY OF
36 COURT ST
SPRINGFIELD, MA 01103

028200056
WALKER KENNETH G &
51 CLARENDON ST
SPRINGFIELD, MA 01109

028200057
WILLIAMS PORTER B & LINDA
47 CLARENDON ST
SPRINGFIELD, MA 01109

028200012
WORLD MARBIE & LAMONT C
62 CLARENDON 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: 60 Ingersoll Grove

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: July 9, 2026	DECISION DATE:
HEARING DATE: August 6, 2026	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: July 23, 2026	WAIVED BY COMMISSION:
DATE NOTICE MAILED: July 23, 2026	WAIVED BY ABUTTERS:



Springfield Historical Commission



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

APPLICATION TYPE

PROPERTY ADDRESS: 70 Tapley Ave, Springfield, Massachusetts 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

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: 80 Finglade Ave, Springfield, Massachusetts 01109		CHECK BOX IF THE PETITIONER REQUIRES AN INTERPRETER ☐
PROPERTY OWNER: Rafin Olasquez		
OWNER ADDRESS: ☐ Check box if same as property address Same Finglade Ave, Springfield, MA 01108		
OWNER PHONE NUMBER: 3477763920	REPRESENTATIVE/CONTRACTOR NAME: N/A	
OWNER EMAIL ADDRESS: Elcafino64@yahoo.com	REPRESENTATIVE/CONTRACTOR PHONE NUMBER: N/A	
PROPERTY CODE:	REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS: N/A	
PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED): Repair of solar system on padel with stone pavers on top And stairs system desired look also repair the retainer wall with rocks /stones.		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.

07/18/2026

PROPERTY OWNER'S SIGNATURE

DATE

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.):

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

☐
☐

YES (PLEASE PROVIDE MORE INFO BELOW)

NO

EXISTING CONDITIONS/DESCRIPTION

PROPOSED RENOVATIONS

Old cracked and deteriorated areas off front porch/deck and steps

Repair cracks and cement on stairs and add blue stone pavers and restore stain for the porch/deck

Jim Boone
97 Florida St
Springfield, Mass 01109

August 3, 2026

Springfield Historical Commission

Meeting 8/6/2026

Re: 60 Ingersol Grove

Commissioners,

In reviewing the application for work on front porch and stairs the photos suggested work had already been done.

This Home is significant in that it is the only Art Deco house in the McKnight Historic District and as such should be preserved in its original design. The front deck is unique and should not be changed.

Clearly the porch floor was in bad condition and needed restoration. As long as the design and openness of the front porch does not change, I do not object to the use of the stone decking. It is important that the underlying cement deck be properly sealed or the new decking will simply hide and then accelerate the deterioration of the understructure leading to future problems.

Thank you

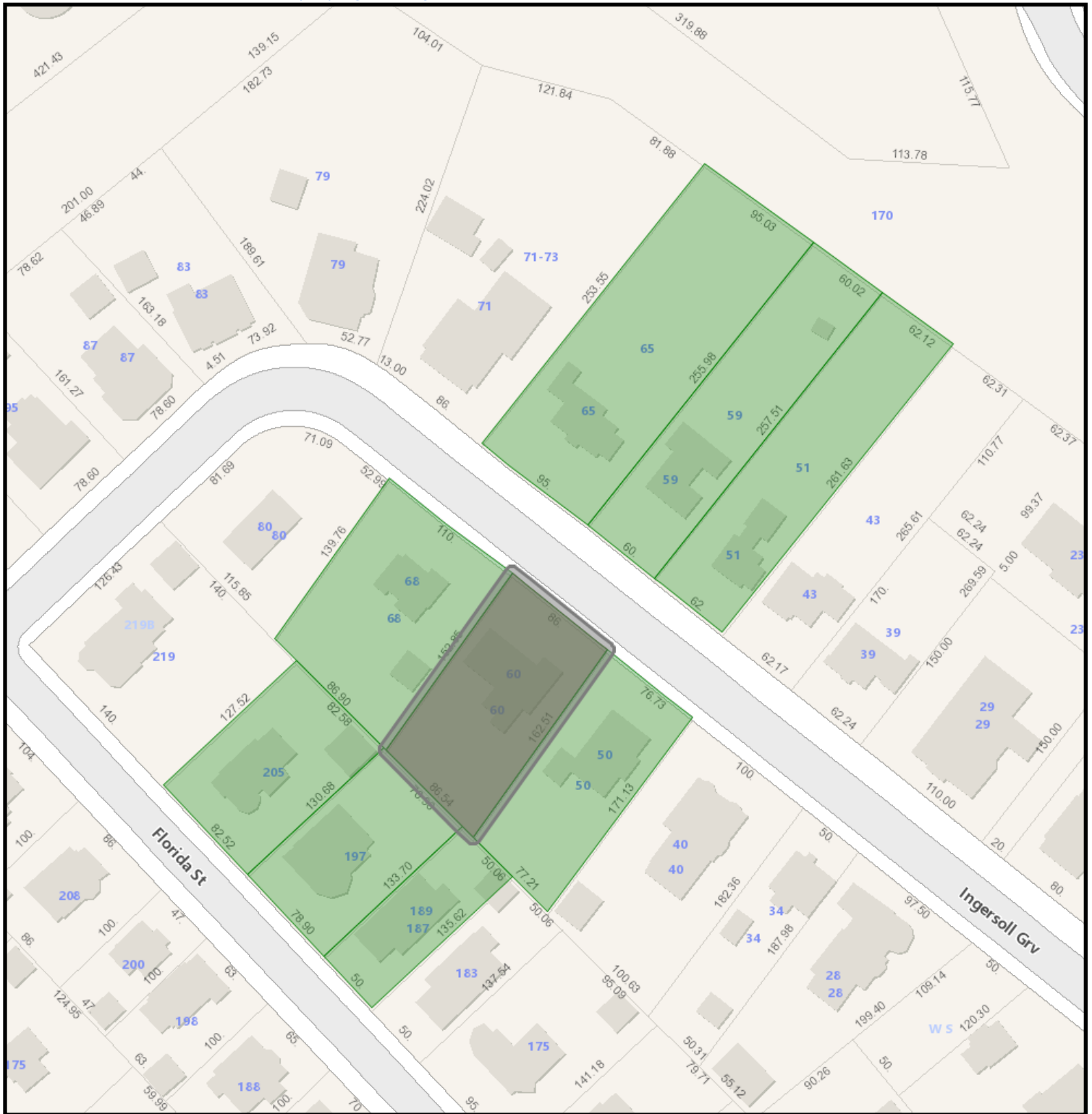
Jim Boone











60 Ingersoll Grove GIS Map

7/22/2026 10:49:10 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.

052200051
BARKER DEBORAH A
187 FLORIDA ST
SPRINGFIELD, MA 01109

069250046
BOWLER EDWARD T & DAWN
51 INGERSOLL GROVE
SPRINGFIELD, MA 01109

069250016
DILLARD-WRIGHT JESSICA &
68 INGERSOLL GRV
SPRINGFIELD, MA 01109

069250045
GLISAN MIKHAEL K &
59 INGERSOLL GROVE
SPRINGFIELD, MA 01109

052200048
KOZODOY EMILY ANNE
205 FLORIDA ST
SPRINGFIELD, MA 01109

052200050
OSMAN YASIR E TR &
197 FLORIDA ST
SPRINGFIELD, MA 01109

069250011
OSTROSKEY JEANNIE M
50 INGERSOLL GROVE
SPRINGFIELD, MA 01109

069250013
PARILLA MARYANN &
60 INGERSOLL GROVE
SPRINGFIELD, MA 01109

069250044
RYMARSKI JENNIFER A &
65 INGERSOLL GROVE
SPRINGFIELD, MA 01109



Springfield Historical Commission



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

APPLICATION CHECKLIST

PROPERTY ADDRESS: 64 Cornell 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>McKnight</u>	DECISION:
DATE RECEIVED: <u>July 29, 2026</u>	DECISION DATE:
HEARING DATE: <u>August 6, 2026</u>	DATE DISCUSSED (NO HEARING):
DATE NOTICE POSTED: <u>July 23, 2026</u>	WAIVED BY COMMISSION:
DATE NOTICE MAILED: <u>July 23, 2026</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:

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

APPLICATION FOR CERTIFICATE

PROPERTY ADDRESS: 64 Cornell Street

PROPERTY OWNER: Jared Newell

CHECK BOX IF THE
PETITIONER REQUIRES
AN INTERPRETER ☐

OWNER ADDRESS:

☒ Check box if same as property address

OWNER PHONE NUMBER:

REPRESENTATIVE/CONTRACTOR NAME:

N/A

OWNER EMAIL ADDRESS:

REPRESENTATIVE/CONTRACTOR PHONE NUMBER:

PROPERTY CODE:

REPRESENTATIVE/CONTRACTOR EMAIL ADDRESS:

PROJECT DESCRIPTION (USE SEPARATE PAGE IF NEEDED):

The floor of the porch was full of holes, wood with splinters and replaced in many parts. It was deemed unsafe ~~top~~ for our child and dogs to stand on, so we replaced the floor.

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):

New parents as of 4/3/26 and having to spend a lot of money on our new child. Porch was unsafe.

☐ 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

7/24/26



*Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Children and Families*

CHARLES D. BAKER
Governor

LYNN E. POLITO

MARYLOU SUDDERS
Secretary

Linda S. Spears

April 2, 2026

To Whom It May Concern,

David Bowen DOB: 9/3/2011 is in the care and custody of The Department of Children and Families. He is placed with his pre-adoptive parents Sam and Jared Newell. His placement date is April 3, 2026.

Thank you,

Alyssa DiNicola

4/2/26

Alyssa DiNicola

Adoption Social Worker

Department of Children and Families

[Redacted]

[Redacted]

BEAT THE HEAT - ACs & Fans to Keep You Cool



Search for Ceiling Fans

 Chicopee **10PM** 01020

Top Rated

ArmorGuard 1 in. x 6 in. x 8 ft. Coastal Gray Square Edge Capped Composite Deck Board

by **Fiberon** > (396)**\$11.98** (\$3.42/sq.ft.)~~\$17.98~~

Save \$6.00 (33%)

Buy 48 or more \$10.78

Color/Finish: **Coastal Gray** **Add to Cart**

Shop All



Services



DIY



Log In



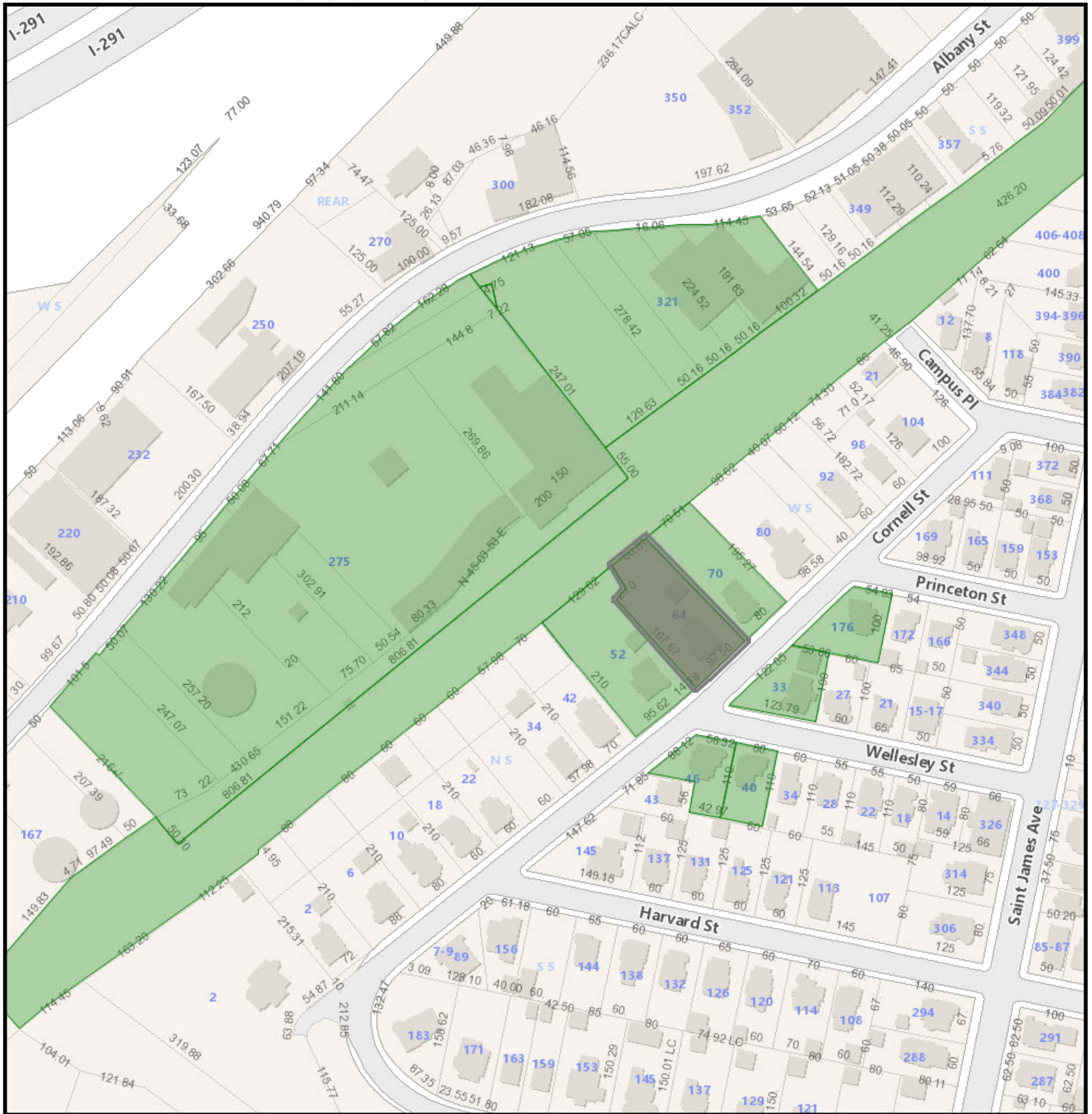
homedepot.com









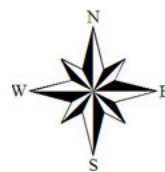


64 Cornell Street GIS Map

7/21/2026 1:25:20 PM

Scale: 1"=200'

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.

032500021
BASS ANTHONY S
70 CORNELL
SPRINGFIELD, MA 01109

121050011
DIAZ SHAVON M
33 WELLESLEY ST
SPRINGFIELD, MA 01109

001600115
F L ROBERTS AND COMPANY
237 ALBANY ST
SPRINGFIELD, MA 01105

099350031
HUFF ALONZO & JOYCE &
176 PRINCETON ST
SPRINGFIELD, MA 01109

001600101
JAD REALTY LLC
256 STARLING RD
SPRINGFIELD, MA 01107

032500017
JASKIEWICZ LEONARD JAMES
52 CORNELL ST
SPRINGFIELD, MA 01109

121050008
MORALES TANYA M
46 WELLESLEY ST
SPRINGFIELD, MA 01109

032500019
NEWELL JARED
64 CORNELL ST
SPRINGFIELD, MA 01109

121050007
RODRIGUEZ CLARA
40 WELLESLEY ST
SPRINGFIELD, MA 01109