

**ADDRESS: 1508-20 RACE ST**

Proposal: Replace windows and doors; install ADA ramp, window wells, and solar panels

Review Requested: Final Approval

Owner: Trustee of Central Philadelphia Monthly Meeting

Applicant: May Narisaranukul, Anchor Management Group

History: 1856; Race Street Meeting House; 1520 Race Street rowhouse, 1840, added onto 1880 and 1915

Individual Designation: 7/31/1961

District Designation: None

Staff Contact: Laura DiPasquale, [laura.dipasquale@phila.gov](mailto:laura.dipasquale@phila.gov), 215-686-7660

**OVERVIEW:** This application proposes to make modifications to the rowhouse and library additions at the northwest corner of the Race Street Friends Meeting House and Friends Central School complex at 1508-20 Race Street. The circa 1840 townhouse at 1520 Race Street was acquired by the Meeting in the 1860s, with additions constructed about 1880 and 1915. No work is proposed to the meetinghouse itself.

The application proposes to replace the windows on the townhouse and additions with aluminum-clad windows, as well as to install a four-panel wood door in the main entrance of the townhouse. With the exception of the first-floor front windows of the townhouse, which are currently two-over-two, the windows on the townhouse and additions are six-over-six and nine-over-nine divided lite wood windows. The staff suggests that the door be a two-panel door consistent with the Greek Revival character of the townhouse, that wood windows with a clamshell brickmold be used for the front façade of the townhouse, and that an ogee profile brickmold and aluminum-clad windows be used on the additions. The staff notes that the brickmold shown in the drawings is a flipped ogee profile, which could be easily remedied.

To the east of the front façade of the townhouse, the application proposes to remove the existing non-historic brick wall and install a new vertical metal picket fence and gate. Behind the fence would be a new ADA ramp, which would lead to a new aluminum storefront system within an existing doorway. The existing strap-hinge doors, which open out, would be pinned open. A low-profile metal awning would be installed over the doorway.

On the east side of the 1880 library addition, flanking its primary entrance, the application proposes to cut down four basement windows and install two large window wells. The two wells would project slightly beyond the depth of the existing stone stoop they flank and would feature four-inch masonry curbs covered with metal grates.

The application also proposes to install solar panels and a rooftop intake louver on the pitched standing-seam metal roofs of the rear additions and rear roof slope of the townhouse. The panels would be flush-mounted to the ridges of the roof and sit approximately eight inches off the lowest portion of the standing-seam metal roofs. Some of the panels would be visible from a distance, particularly from 16<sup>th</sup> Street, but would be inconspicuous or invisible from Race Street.

**SCOPE OF WORK:**

- Replace wood windows; install aluminum-clad windows,
- Replace brick site wall with vertical metal picket fence and gate,
- Install ADA ramp,
- Install storefront door system; pin open existing doors,
- Install metal awning,

- Cut large window wells with curbed grates, and
- Install solar panels and rooftop intake louver.

**STANDARDS FOR REVIEW:**

- *Standard 2: The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.*
  - The application does not remove historic materials or alter features that characterize the property. The application complies with this Standard.
- *Standard 6: Deteriorated historic features shall be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature shall match the old in design, color, texture, and other visual qualities and, where possible, materials. Replacement of missing features shall be substantiated by documentary, physical, or pictorial evidence.*
  - The proposed windows generally match the historic windows in design and other visual qualities, if not materials. The application partially complies with this Standard.
- *Standard 9: New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work will be differentiated from the old and will be compatible with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.*
  - As proposed, the large, curbed window wells alter the spatial relationship of the library addition to the meetinghouse site. This portion of the application does not currently comply with this Standard.
- *Accessibility (Code-Required Work) Guideline | Recommended: Finding solutions to meet accessibility requirements that minimize the impact of any necessary alteration for accessibility on the historic building, its site, or setting, such as compatible ramps, paths, and lifts; Minimizing the visual impact of accessibility ramps by installing them on secondary elevations when it does not compromise accessibility or by screening them with plantings.*
  - The proposed ramp would be tucked along the secondary elevations of the townhouse and library additions, behind a new fence. It would utilize an existing door opening and not require modifications to character-defining features of the property, thus minimizing the impact of the alteration on the building and its site. The application complies with this Guideline.
- *Roofs Guideline | Recommended: Installing mechanical and service equipment on the roof (such as heating and air-conditioning units, elevator housing, or solar panels) when required for a new use so that they are inconspicuous on the site and from the public right-of-way and do not damage or obscure character-defining historic features.*
  - The proposed solar panels and equipment would be located on low-slope roofs, and would be relatively inconspicuous from the public right-of-way.

**STAFF RECOMMENDATION:** Approval of the proposed window replacement, provided the windows on the front façade of the rowhouse are wood with a clamshell brickmold; approval of the fencing, ADA ramp, storefront system and awning, and solar panels, provided they are inconspicuous from the public right-of-way; and approval of the window wells, provided they are

kept to the minimum size required by code, and are flush with the brick paving with no curb; pursuant to Standards 2, 6, and 9, and the Accessibility and Roofs Guidelines.

**MAPS & FIGURES:**

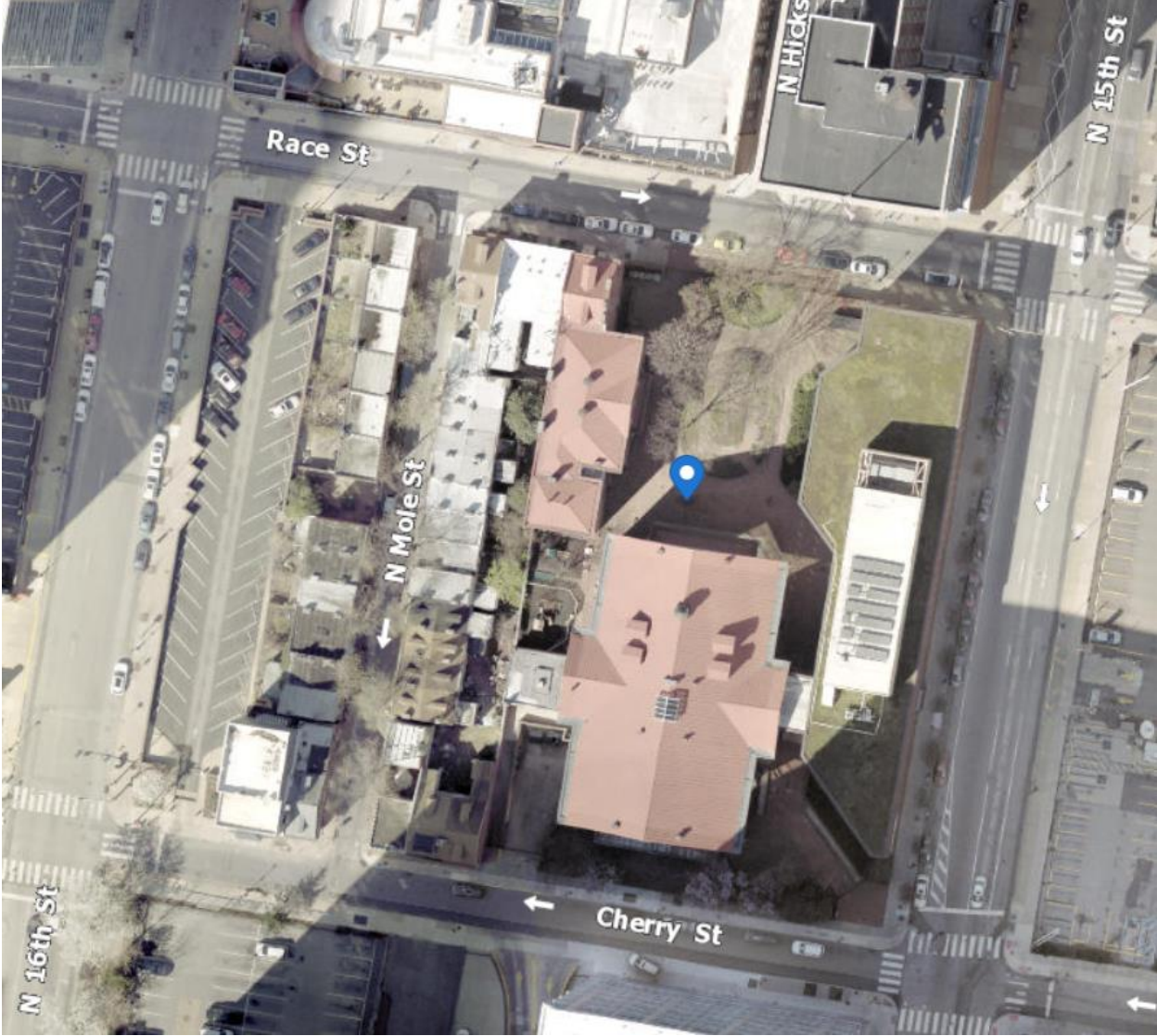


Figure 1: Current aerial view.



Figure 2: 1895 Bromley atlas.

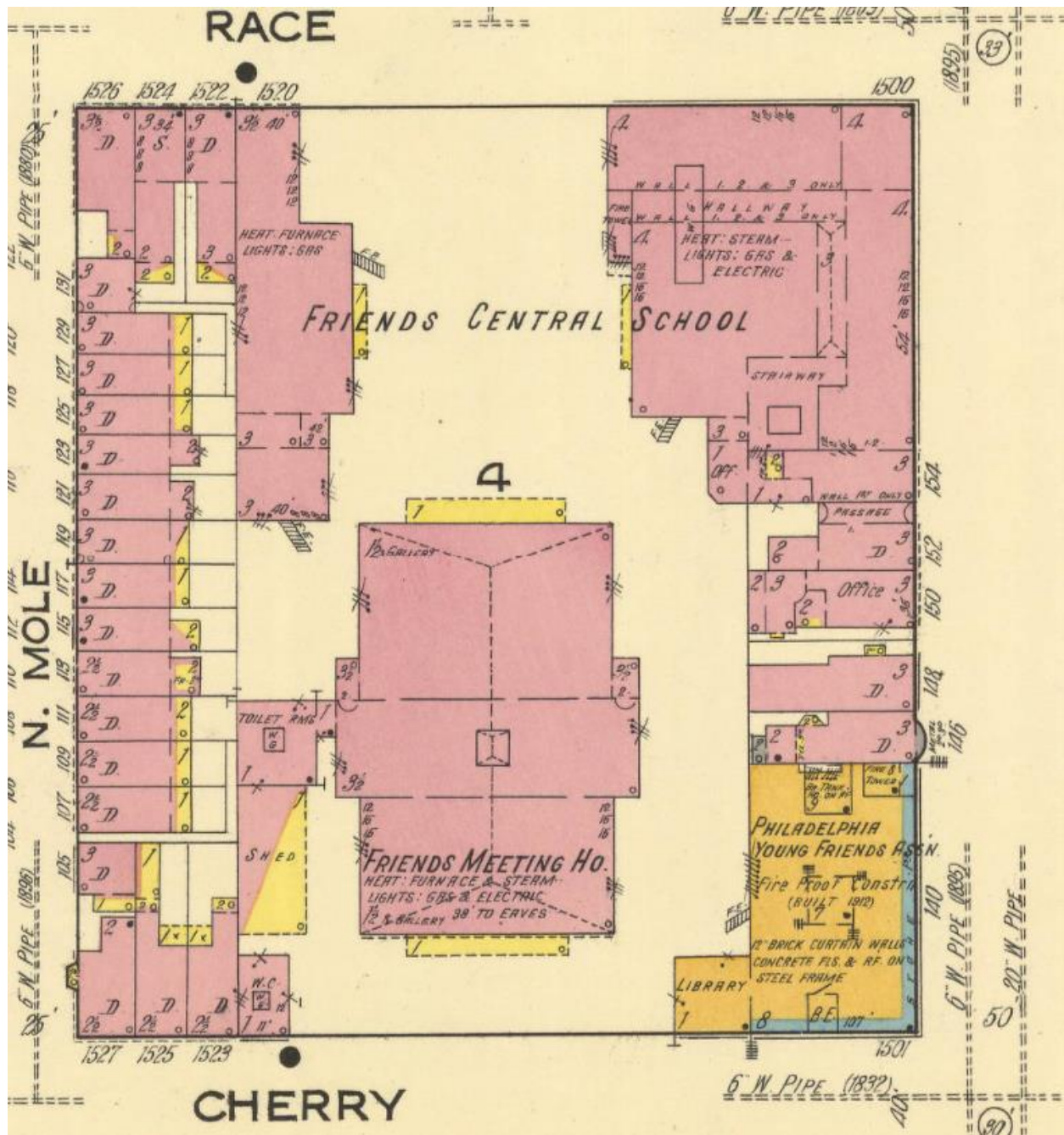


Figure 3: 1916 Sanborn map.

Date: 11/8/2021

RE: Friends Select School  
1520 Race Street  
Philadelphia, PA 19102

Attn: Philadelphia Historical Commission  
Laura Dipasquale  
1515 Arch Street  
Philadelphia, PA 19102

Dear Laura,

Friends Select School (FSS) recently entered into a ground lease agreement with the Trustee of Central Philadelphia Monthly Meeting and Friends Center Corporation for 1520 Race St. FSS will be expanding their campus into the building and returning it back to its previous educational use. The building will house classrooms and administrative offices for the Upper School program.

The primary goal for the renovation of 1520 Race Street is to create an accessible and sustainable learning environment by adding a new accessible entry into the building from Race Street, adding an elevator in the interior of the building to address the multiple level changes within, replacing the existing mechanical systems and windows to improve thermal comfort. The addition of solar panel system will contribute to the use of renewable source of energy. The design aims to celebrate and respect the history of the building. We intend to reuse and repurpose existing material where possible, such as brick pavers in the courtyard, granite details, and doors.

The proposed design is included in the attached PDF packet for your review. We look forward to your feedback.

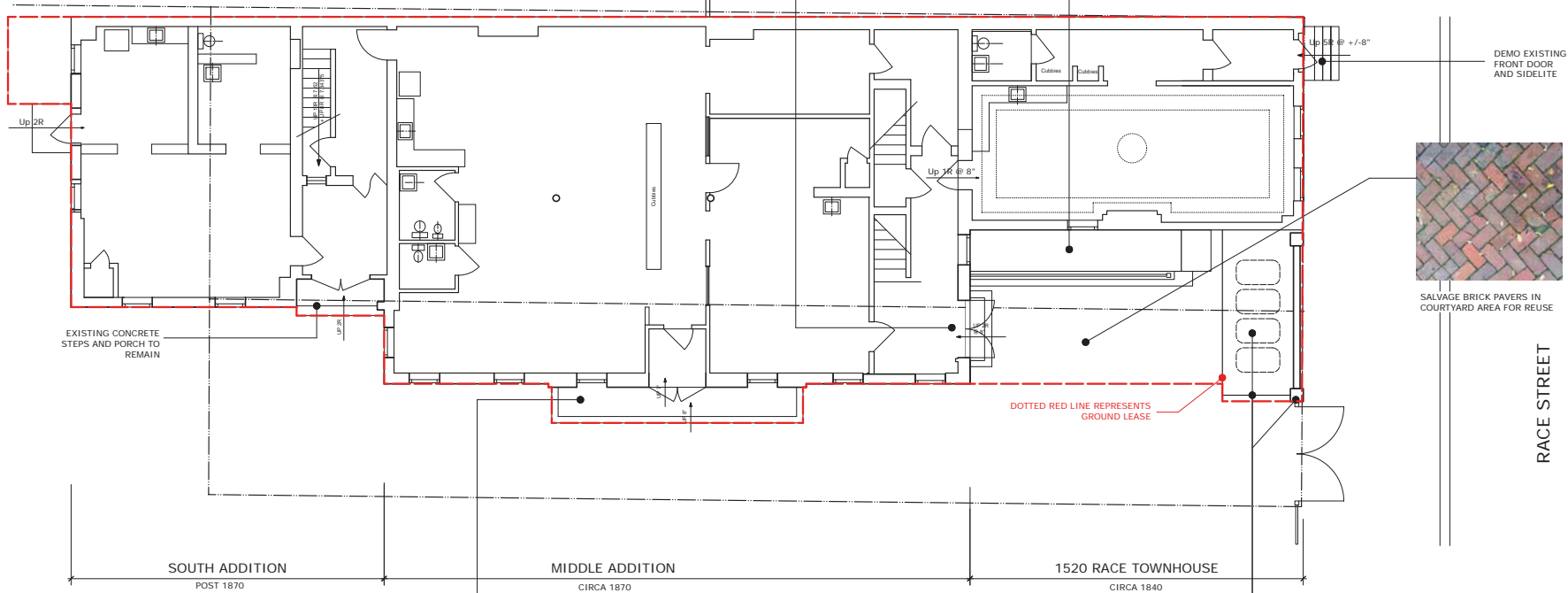
Thank you,

May Narisaranukul

Project Manager – Anchor Management Group

Ph: 215.990.6851





SALVAGE EXISTING DOORS AND GRANITE STOOP FOR REUSE



DEMO EXISTING RAILING AND SALVAGE GRANITE CURB FOR REUSE - NEW RAMP TO 1ST FLOOR ENTRY TO BE BUILT OVER EXISTING BASEMENT RAMP



BLUE LINE REPRESENTS APPROXIMATE OUTLINE OF NEW HC RAMP - SEE SHEET A1.1

DEMO EXISTING FRONT DOOR AND SIDELITE



SALVAGE BRICK PAVERS IN COURTYARD AREA FOR REUSE

RACE STREET



EXISTING GRANITE STOOP/BORDER TO REMAIN



EXISTING 20TH C BRICK WALL, WOOD FENCE AND HVAC UNITS TO BE REMOVED



REMOVE ALL EXISTING SINGLE GLAZED WOOD SASH WINDOWS TYP

EXISTING PLAN  
3/16" = 1'-0"



HISTORIC COMMISSION SUBMISSION 11/8/21

Architect:  
**JAMES BRADBERRY ARCHITECTS**  
1214 LEXINGTON AVENUE  
SUITE 202  
PHILADELPHIA, PA 19107  
JAMESBRADBERRY.COM  
PHONE: 813.524.9475

Structural Engineer:  
**AM STRUCTURED LTD**  
124 CONYER LANE  
MILLSBORO, DE 19966  
PHONE: 302.832.6446

MEP Engineer:  
**MCARDEN ENGINEERING ASSOCIATES INC**  
124 POPLAR STREET  
MILLSBORO, DE 19966  
MCARDEN.COM  
PHONE: 302.834.1114

Annex Building Renovations  
**FRIENDS SELECT SCHOOL**  
1520 Race Street Philadelphia, PA 19103

Signature & Seal

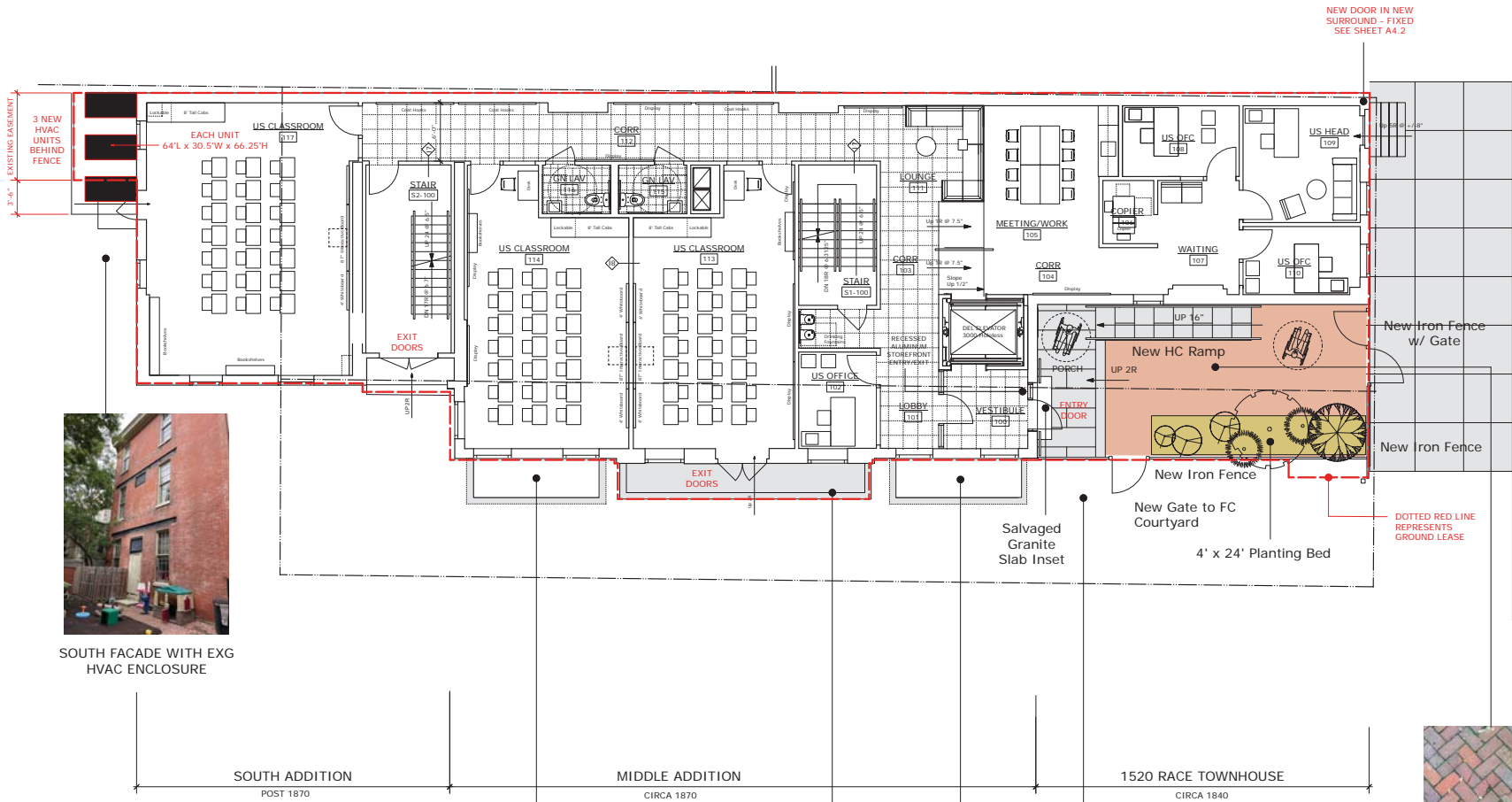
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Date: HISTORIC COMMISSION SUBMISSION 11/1/21

Revisions:

Sheet  
**A1.0**



NEW DOOR IN NEW SURROUND - FIXED SEE SHEET A4.2

3 NEW HVAC UNITS BEHIND FENCE

EACH UNIT 64'L x 30.5'W x 66.25'H



SOUTH FACADE WITH EXG HVAC ENCLOSURE

SOUTH ADDITION POST 1870

MIDDLE ADDITION CIRCA 1870

1520 RACE TOWNHOUSE CIRCA 1840



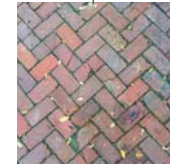
IRON GRATE LIGHT WELL COVER - PAINT BLACK SET ON 6" H CONCRETE CURB



EXISTING GRANITE STOOP TO REMAIN



THERMAL FINISH BLUESTONE (NOMINAL 24 x 36) FOR PORCH AND RAMP



SALVAGED BRICK PAVERS IN HERRINGBONE PATTERN IN NEW COURTYARD (SAND SET)

RACE STREET

New Iron Fence w/ Gate

New Iron Fence

New Gate to FC Courtyard

4' x 24' Planting Bed

NEW HC RAMP

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

UP 2R

UP 16"

UP 6"

PROPOSED PLAN 3/16" = 1'-0"



Architect:  
**JAMES GRABBERY**  
ARCHITECTS  
1000 LOCUST STREET  
PHILADELPHIA, PA 19107  
JGRABBERY@JGRABBERY.COM  
PHONE: (610) 526-6175

Structural Engineer:  
AMM STRUCTURELLC  
1000 LOCUST STREET  
PHILADELPHIA, PA 19107  
PHONE: (610) 526-6175

MEP Engineer:  
MCKINNON ENGINEERING  
1000 LOCUST STREET  
PHILADELPHIA, PA 19107  
PHONE: (610) 526-6175

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Date: HISTORIC COMMISSION SUBMISSION 11/1/21

Revisions:

Sheet  
**A1.1**

HISTORIC COMMISSION SUBMISSION 11/8/21





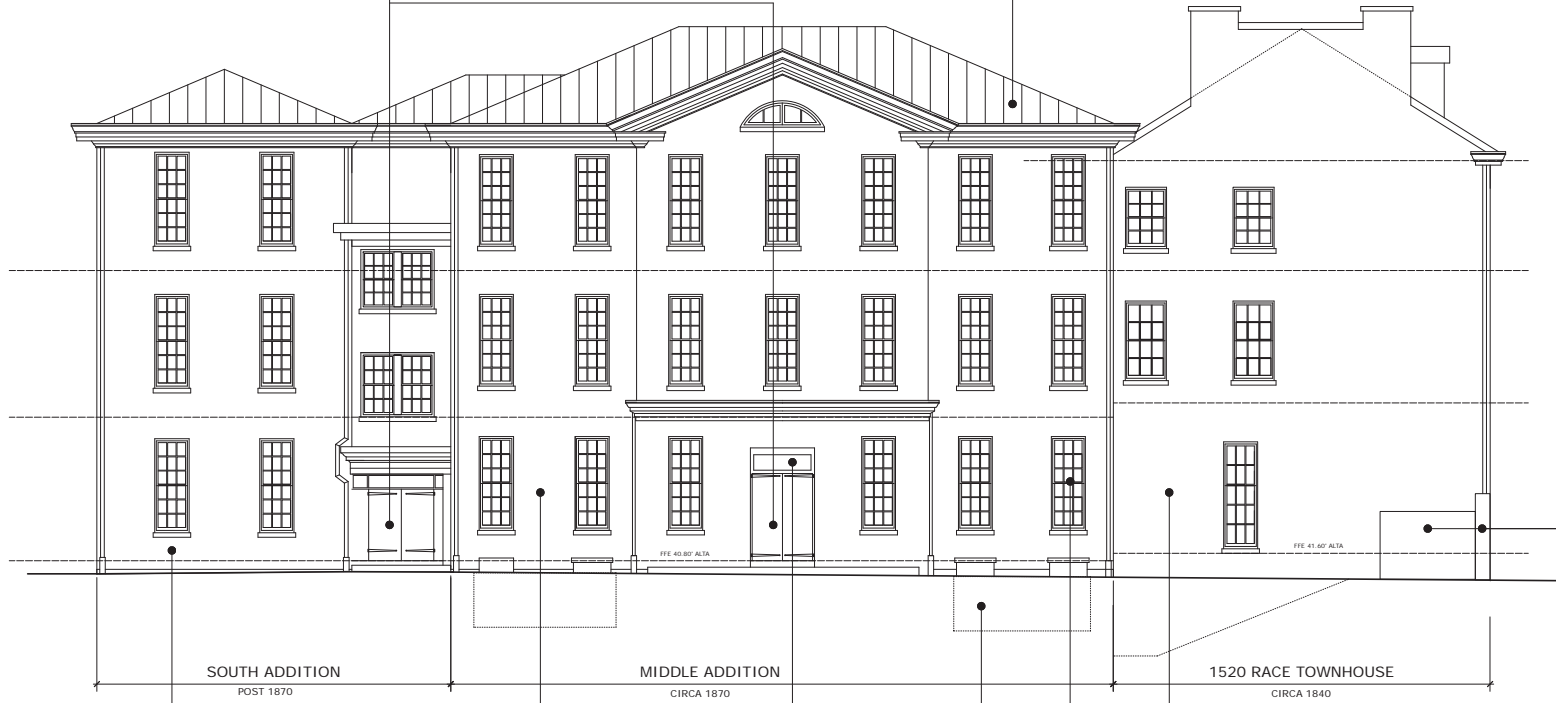
EXISTING DOORS/STRAP HINGES TO BE PRESERVED



EXG METAL ROOF



EXISTING 20TH C BRICK WALL, WOOD FENCE AND HVAC UNITS TO BE REMOVED



SOUTH ADDITION



MIDDLE ADDITION



TOWNHOUSE

EXISTING AREA TO BE EXCAVATED FOR NEW WINDOW WELLS - EXISTING PAVING BRICK TO BE SALVAGED

ALL EXISTING SINGLE GLAZED WOOD SASH WINDOWS TO BE REMOVED

ALL PLYWOOD PANEL TO BE REMOVED AND TRANSOM RESTORED

EXISTING  
East Elevation  
3/16" = 1'-0"

HISTORIC COMMISSION  
SUBMISSION 11/8/21

Architect:  
**JAMES BRADBURY**  
ARCHITECTS  
528 COVINGTON AVENUE  
SUITE 202  
PHILADELPHIA, PA 19107  
PH: 215-528-8800  
FAX: 215-528-8874

Structural Engineer:  
JOHN F. HOUTLANDS LLC  
238 COPPIN LANE  
MARGARETTA, PA 15126  
PHONE: 412-812-2445

MEP Engineer:  
MCKINLEY INDUSTRIES  
ARCHITECTS INC  
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MARGARETTA, PA 15126  
MCKINLEY@MCKINLEY.COM  
PHONE: 412-812-2228

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1520 Race Street Philadelphia, PA 19103

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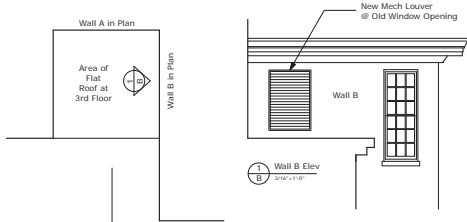
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MARVIN CLAD ULTIMATE DOUBLE HUNG WINDOWS WITH 7/8" MUNTIN (SDL) AND 1-11/16" THORNTON ROUND TOP CASING



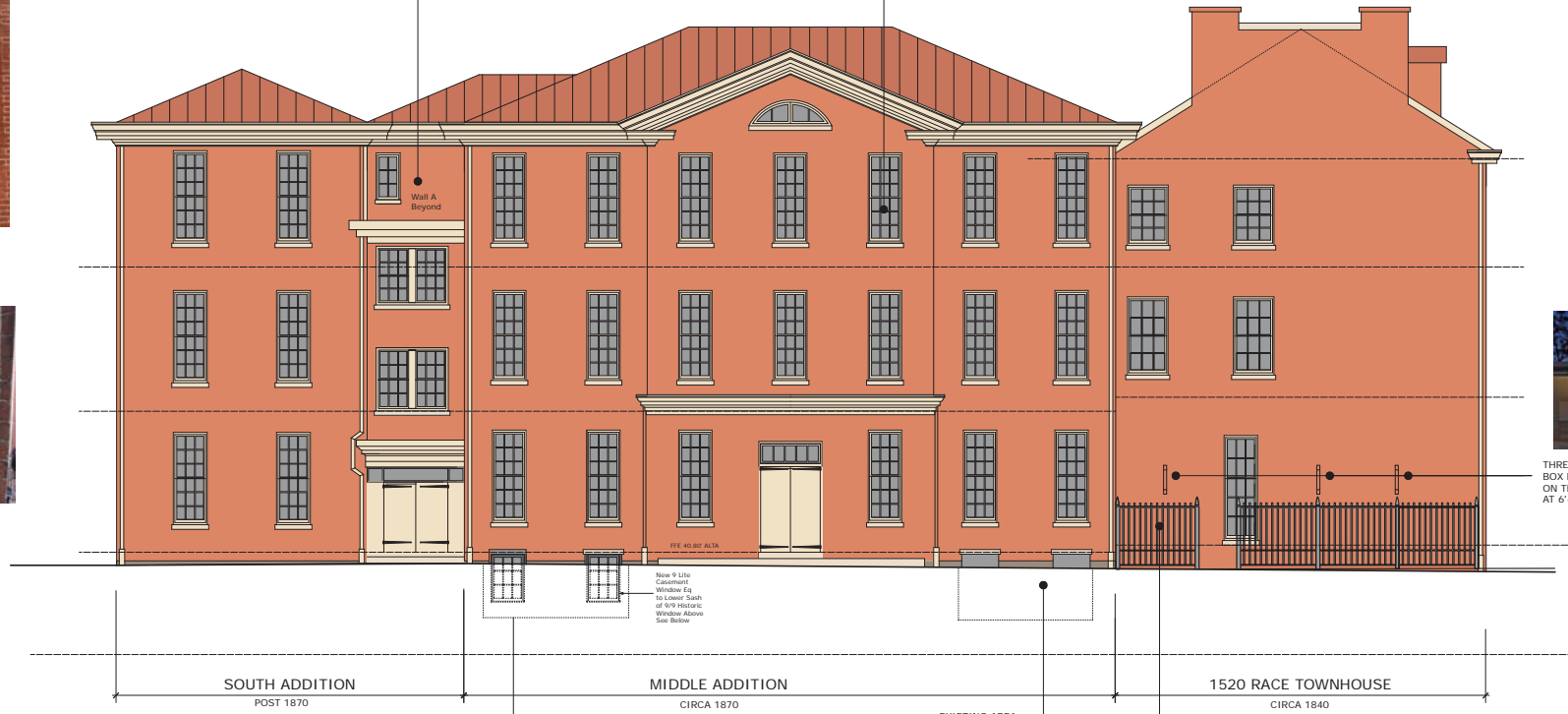
MARVIN CLAD UDH w/ PROPOSED MOULDING ON LEFT  
VIS-A-VIS  
EXISTING WOOD SASH WINDOW w/ WOOD MOULDING ON RIGHT



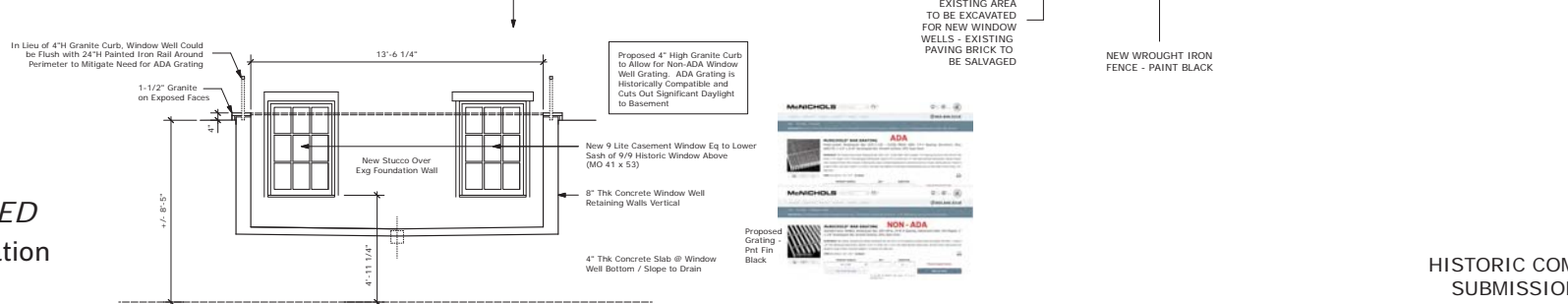
TYP EAST ELEVATION EXISTING WOOD SASH WINDOW - 9/9 (MO - 37 x 104)



TYP WOOD WINDOW CASING @ SOUTH ADDITION



THREE (3) SONNEMAN BOX LED LIGHT FIXTURES ON TH SIDE WALL - BOT AT 6'-6" ABOVE GRADE



TYPICAL WINDOW WELL DETAIL  
3/8" = 1'-0"

EXISTING AREA TO BE EXCAVATED FOR NEW WINDOW WELLS - EXISTING PAVING BRICK TO BE SALVAGED  
NEW WROUGHT IRON FENCE - PAINT BLACK



Proposed Grating - Red Fin Black

**PROPOSED**  
**East Elevation**  
3/16" = 1'-0"

HISTORIC COMMISSION  
SUBMISSION 11/8/21

Address:  
**JAMES BRADDERY**  
ARCHITECTS  
124 LINDEN STREET  
PHILADELPHIA, PA 19107  
PH: 215-521-1111  
WWW.JAMESBRADDERY.COM

Structural Engineer:  
ANK STRUCTURAL LLC  
215 SOUTH 30TH STREET  
PHILADELPHIA, PA 19106  
PHONE: 481-521-5462

MEP Engineer:  
MOORE ENGINEERING  
100 N. 10TH STREET  
PHILADELPHIA, PA 19107  
PHONE: 215-521-1111

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1520 Race Street Philadelphia, PA 19103

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**A4.1**



**EXISTING** North Elevation  
3/16" = 1'-0"



**PROPOSED** North Elevation  
3/16" = 1'-0"



DEMO EXISTING  
20TH CENTURY  
BRICK WALL



DEMO EXISTING DOOR, FAN  
LIGHT, AND WOOD WALL INFILL  
DEMO LATE 19TH CENTURY  
4 OVER 4 SASH ON GROUND  
FLOOR



COLOR TO BE MEDIUM BRONZE



ALUMINUM  
STOREFRONT  
ENTRY/EXIT  
6" FRAME INSET  
IN 12" BRICK WALL

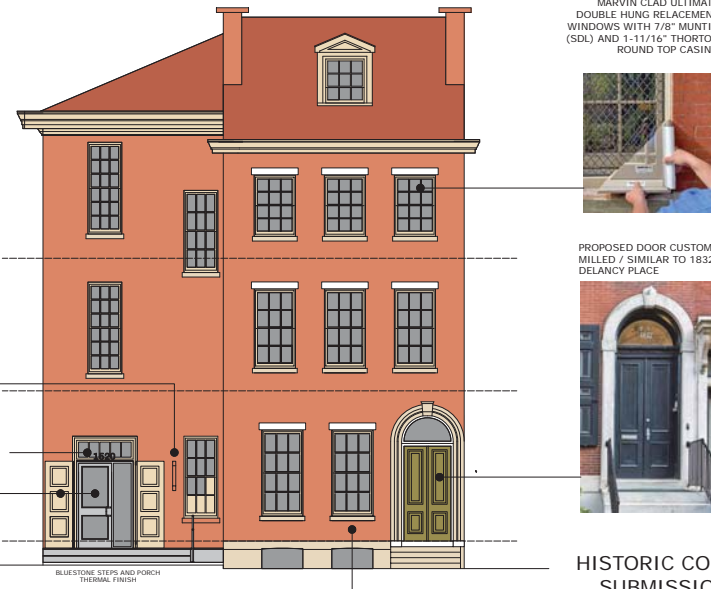


RESTORED DOORS  
PINNED BACK ON  
EXISTING STRAP  
HINGES AS  
DECORATIVE  
ELEMENT



SONNEMAN BOX LED ADA SCENCE

1/4" PAINTED  
STEEL CANOPY  
(CANTILEVERED)  
W/ LASER CUT  
ADDRESS NUMERALS

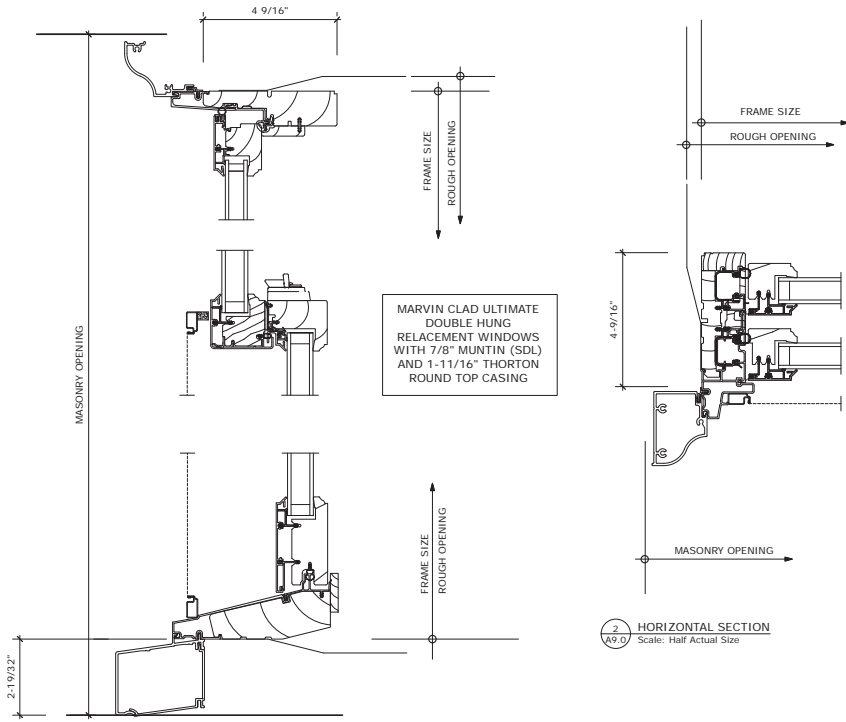


**PROPOSED** North Elevation  
3/16" = 1'-0"

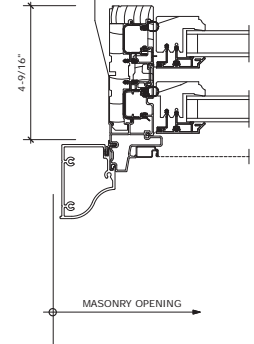
NEW 6 OVER 6 IN LIEU OF LATE  
19TH CENTURY 4 OVER 4 SASH  
ON GROUND FLOOR

<p><b>Architect:</b> JAMES BRADBERRY ARCHITECTS 128 LEITCHFIELD AVENUE SUITE 303 PHILADELPHIA, PA 19107 JAMES@BRADBERRY.COM PHONE: 215.529.8475</p>
<p><b>Structural Engineer:</b> JAMES FRUCHTBAUM LLC 238 SPRING 4800 PHILADELPHIA, PA 19104 PHONE: 215.812.9460</p>
<p><b>MEP Engineer:</b> MOSKOW ENGINEERING ASSOCIATES, INC. 228 W. WALNUT STREET ARLINGTON, PA 19007 WWW.MEASCI.COM PHONE: 215.611.1138</p>
<p style="text-align: center;"><b>Annex Building Renovations</b> <b>FRIENDS SELECT SCHOOL</b> 1520 Race Street Philadelphia, PA 19103</p>
<p><b>Signature &amp; Seal:</b></p>
<p>Scale: AS NOTED Drawn: JB, GB Date: HISTORIC COMMISSION SUBMISSION 11/8/21</p>
<p>Revisions:</p>
<p>Sheet <b>A4.2</b></p>

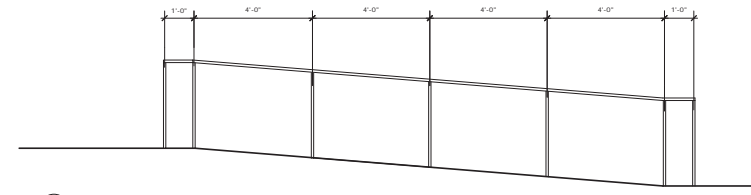
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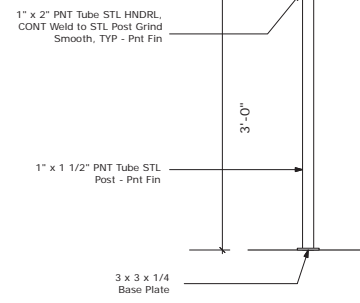
MARVIN CLAD ULTIMATE  
DOUBLE HUNG  
REPLACEMENT WINDOWS  
WITH 7/8\"/>



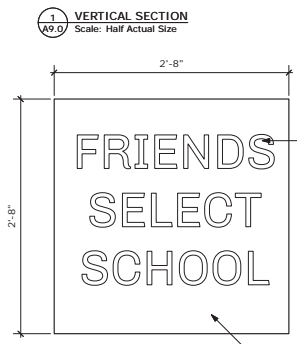
2 HORIZONTAL SECTION  
Scale: Half Actual Size



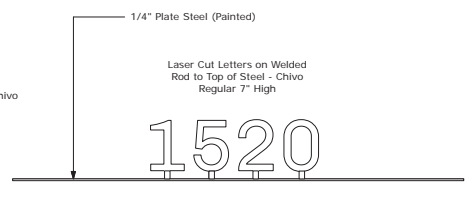
3 Ramp Section  
Scale: 1/2" = 1'-0"



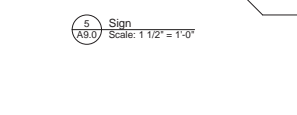
4 Handrail Detail @ Ramp  
Scale: 1 1/2" = 1'-0"



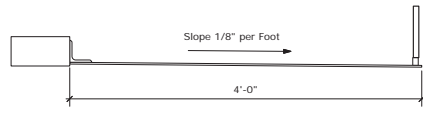
1 VERTICAL SECTION  
Scale: Half Actual Size



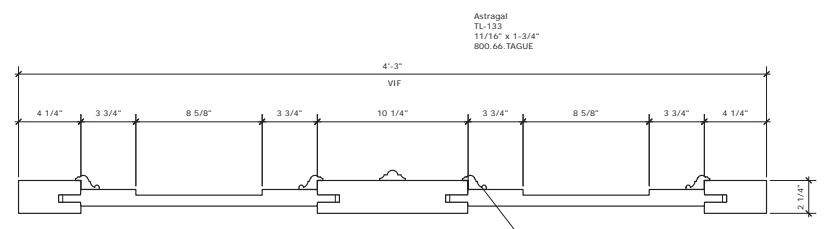
6 Canopy Elevation  
Scale: 1 1/2" = 1'-0"



5 Sign  
Scale: 1 1/2" = 1'-0"



7 Canopy Section  
Scale: 1 1/2" = 1'-0"



6 Townhouse Door Section  
Scale: 3" = 1'-0"

Architect:  
**JAMES RADDEBERRY**  
P E I B O A S P C  
138 LICHENWORTH AVENUE  
SUITE 301  
PHILADELPHIA, PA 19107  
JAMESRADDEBERRY.COM  
PHONE: 800.633.8667

Structural Engineer:  
JANUS STRUCTURES LLC  
14500 ELLIOTT LANE  
PHILADELPHIA, PA 19154  
PHONE: 800.633.8666

MEP Engineer:  
MCHUGH ENGINEERING  
ASSOCIATES, INC  
1200 WALNUT STREET  
SUITE 201  
PHILADELPHIA, PA 19107  
PHONE: 215.561.1158

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1520 Race Street Philadelphia, PA 19103

Signature & Seal

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Sheet  
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SUBMISSION 11/8/21



AERIAL VIEW



STREET VIEW

<p><b>Architect:</b>  <b>JAMES BRADBERRY</b>          200 N. 15TH ST. # 200          PHILADELPHIA, PA 19103          PH: 215-592-8800          FAX: 215-592-8877</p>
<p><b>Structural Engineer:</b>          JKH STRUCTURES LLC          244 DORFMAN LANE          WILMINGTON, DE 19804          PHONE: 410-653-0442</p>
<p><b>MEP Engineer:</b>          MCKENNA ENGINEERING          CONSULTANTS INC.          124 FORBES STREET          PHILADELPHIA, PA 19107          MCKENNAENGINEERING.COM          PHONE: 215-595-1228</p>
<p>Annex Building Renovations  <b>FRIENDS SELECT SCHOOL</b>          1520 Race Street Philadelphia, PA 19103</p>
<p>Signature &amp; Seal:</p>
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<p>Revisions:</p>
<p>Sheet  <b>A10.0</b></p>

HISTORIC COMMISSION  
 SUBMISSION 11/8/21



SOLAR STATES LLC  
1508 N AMERICAN ST  
PHILADELPHIA, PA 19122  
215-939-6699  
SOLAR-STATES.COM  
INFO@SOLAR-STATES.COM

PROJECT:

FRIENDS  
SELECT  
SCHOOL

PROJECT DETAILS:

DESIGN & DRAFTING:

ADAM STEIN

DATE:

NOVEMBER 5, 2021

ENGINEERING APPROVAL:

SHEET TITLE:

SOLAR LAYOUT  
RENDERING

SHEET NUMBER:



SOLAR STATES LLC  
1508 N AMERICAN ST  
PHILADELPHIA, PA 19122  
215-939-6699  
SOLAR-STATES.COM  
INFO@SOLAR-STATES.COM

PROJECT:

FRIENDS  
SELECT  
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PROJECT DETAILS:

DESIGN & DRAFTING:

ADAM STEIN

DATE:

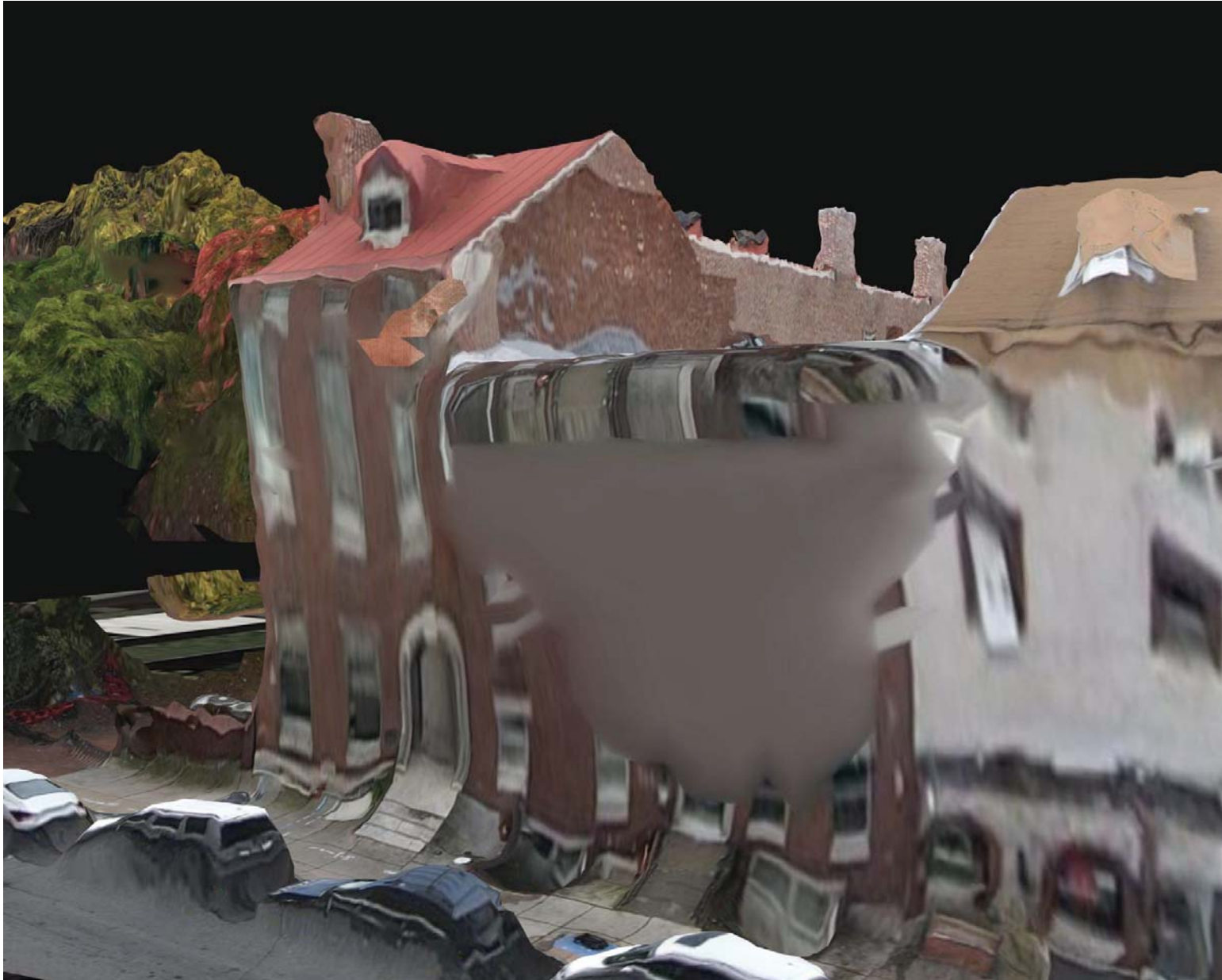
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RENDERING

SHEET NUMBER:

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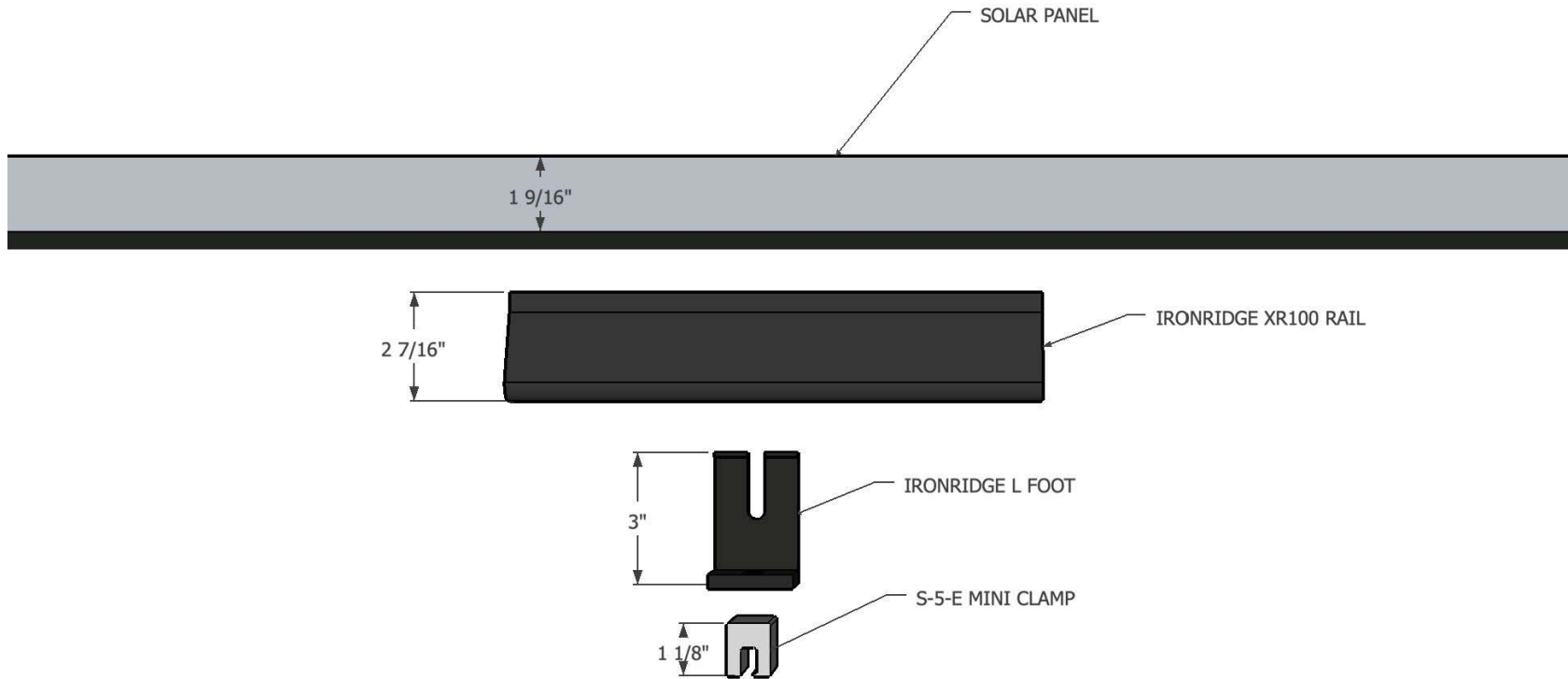
NOVEMBER 5, 2021

ENGINEERING APPROVAL:

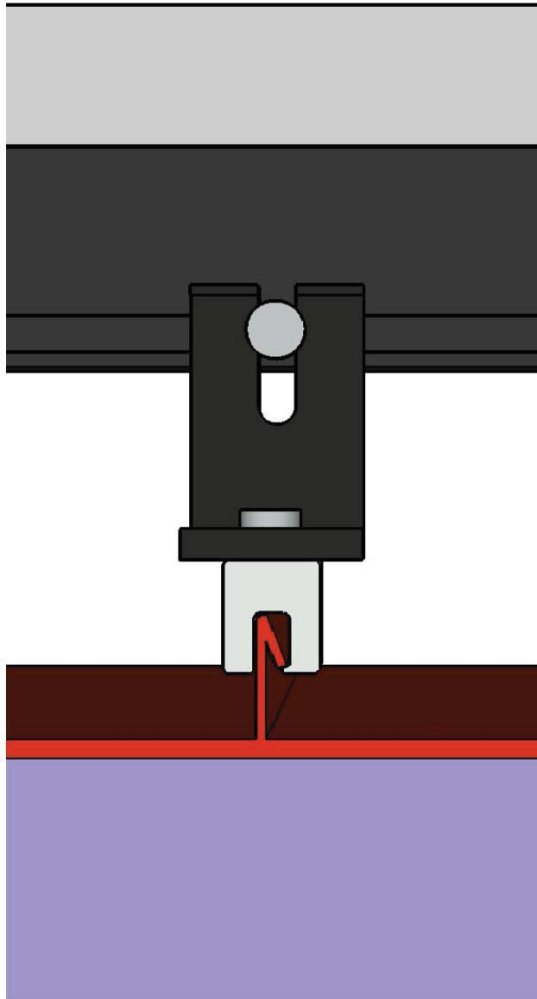
SHEET TITLE:

EQUIPMENT  
HEIGHT DETAIL

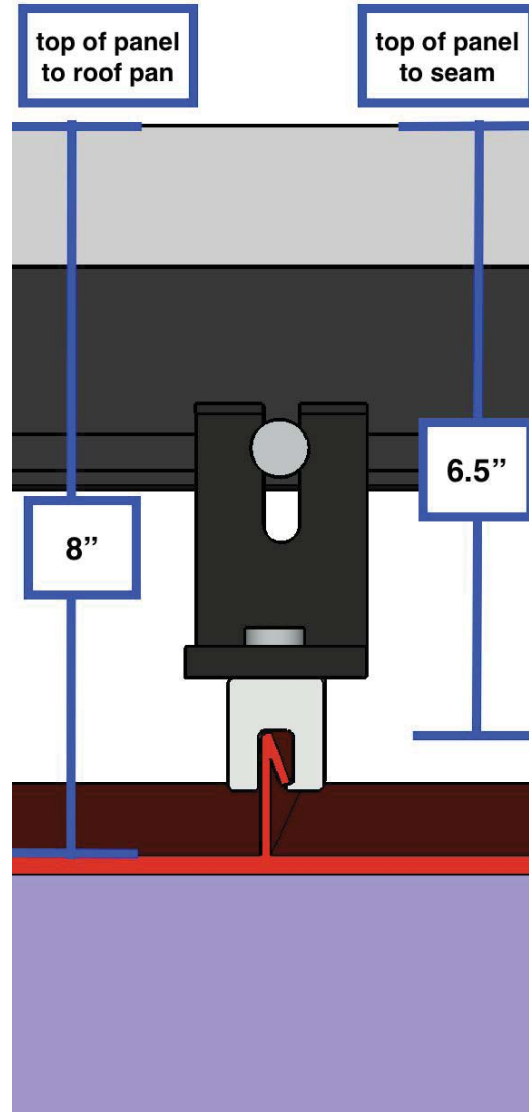
SHEET NUMBER:



FRONT VIEW



FRONT VIEW MARKUP



SOLAR STATES LLC  
1508 N AMERICAN ST  
PHILADELPHIA, PA 19122  
215-939-6699  
SOLAR-STATES.COM  
INFO@SOLAR-STATES.COM

PROJECT:

FRIENDS  
SELECT  
SCHOOL

PROJECT DETAILS:

DESIGN & DRAFTING:

ADAM STEIN

DATE:

NOVEMBER 5, 2021

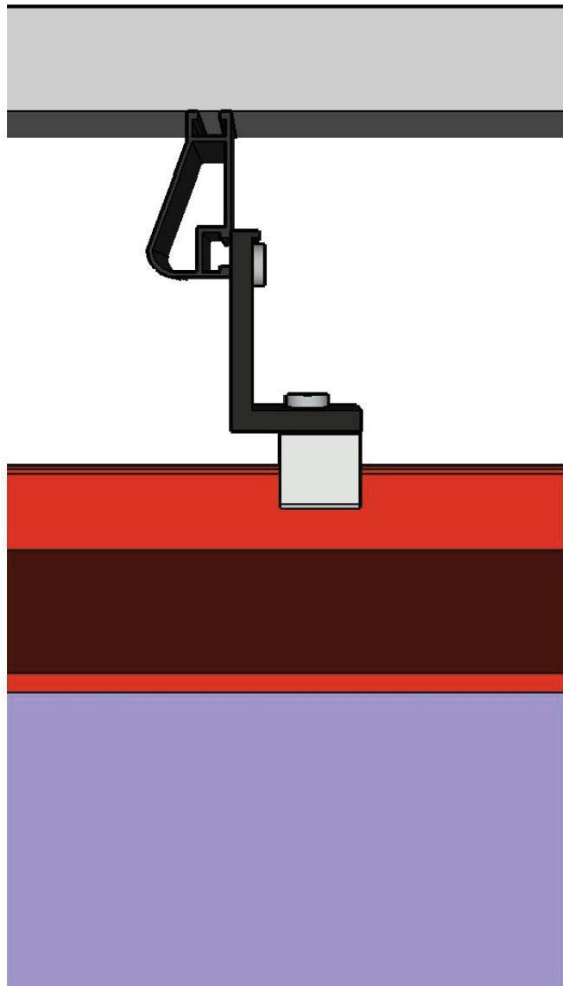
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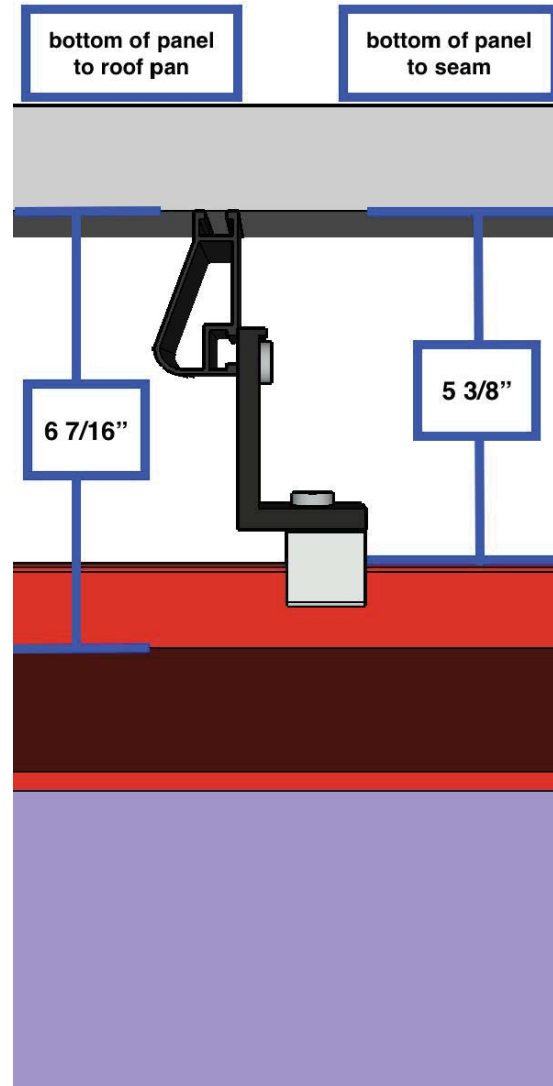
FRONT VIEW  
DETAIL

SHEET NUMBER:

SIDE VIEW



SIDE VIEW MARKUP



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SELECT  
SCHOOL

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DESIGN & DRAFTING:

ADAM STEIN

DATE:

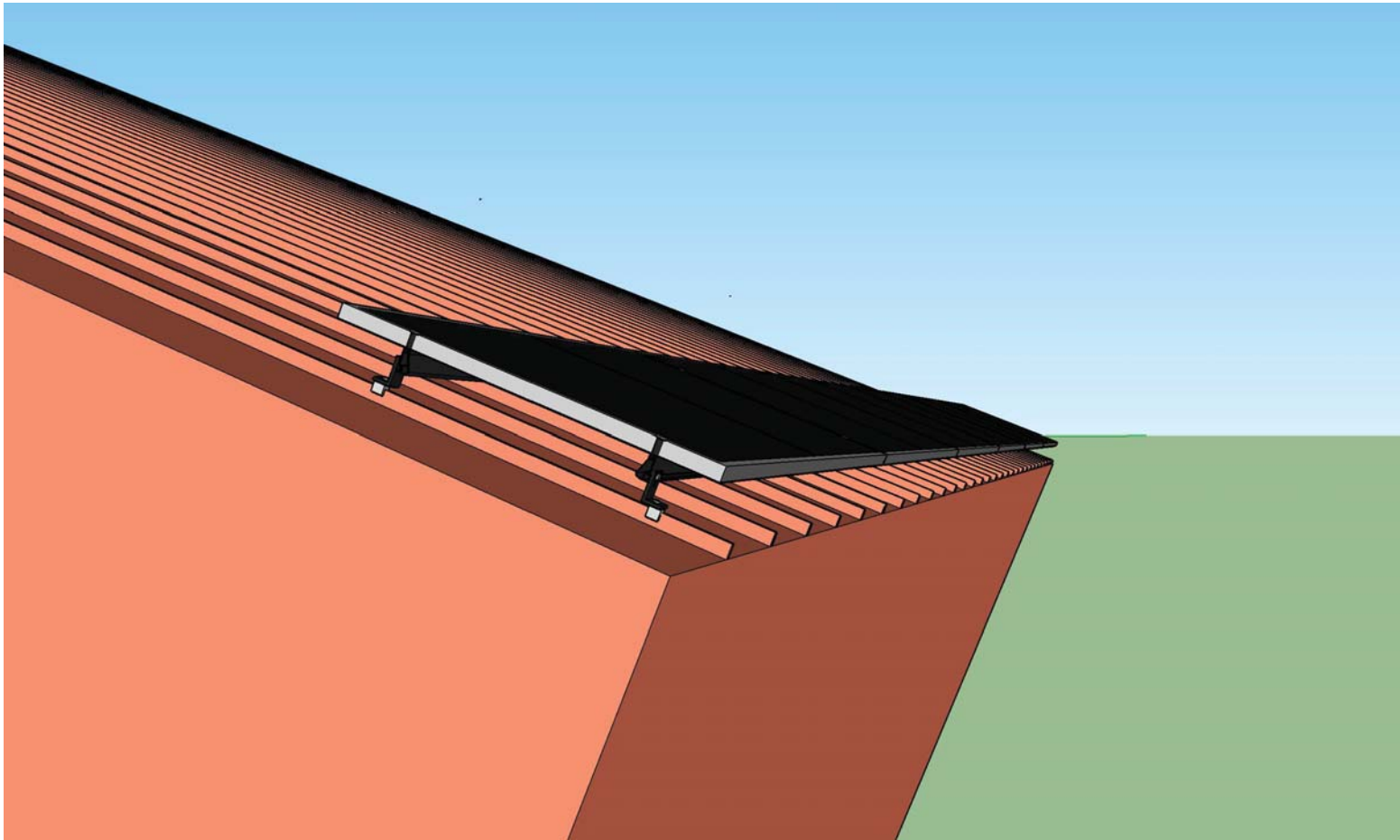
NOVEMBER 5, 2021

ENGINEERING APPROVAL:

SHEET TITLE:

SIDE VIEW  
DETAIL

SHEET NUMBER:



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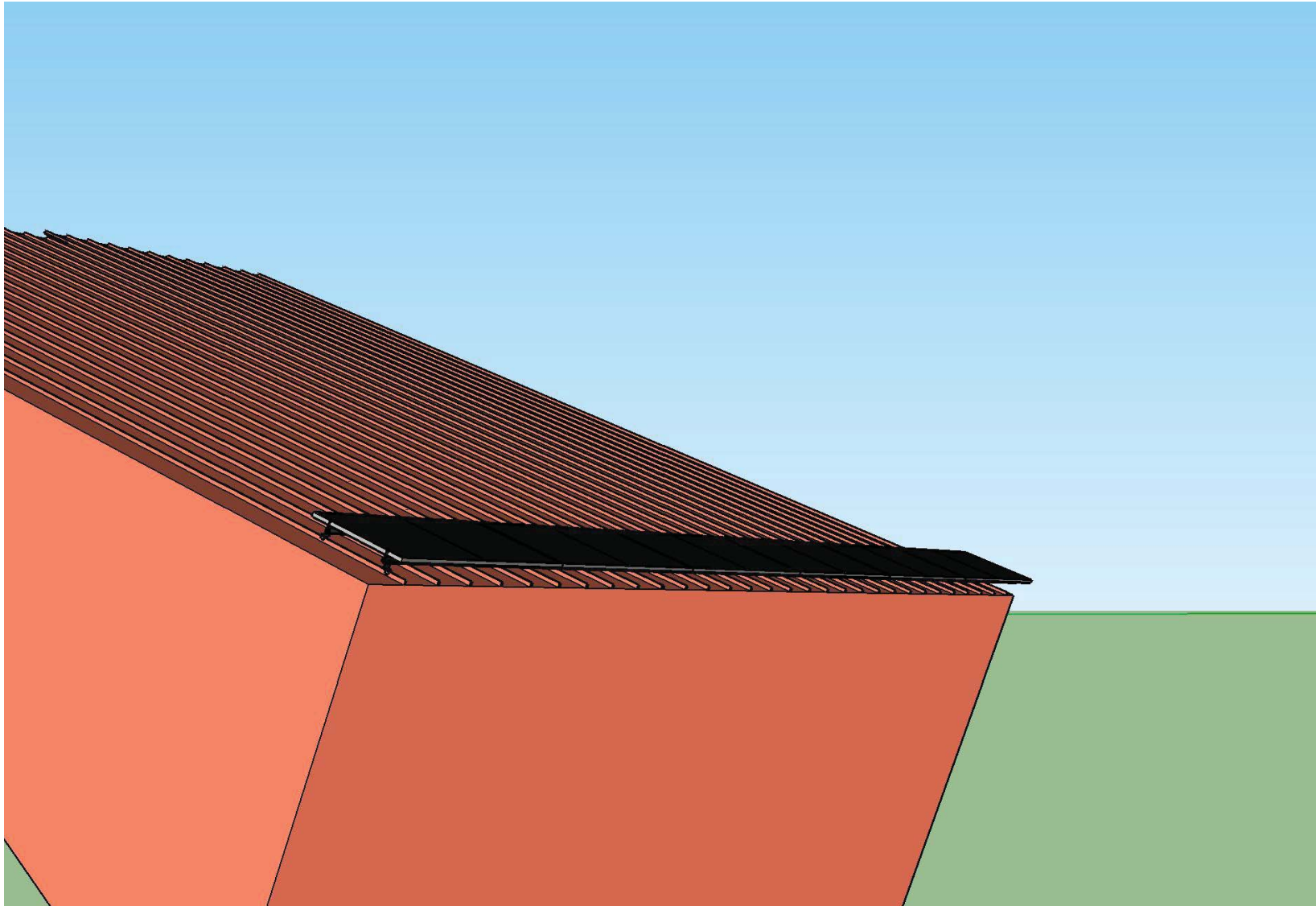
NOVEMBER 5, 2021

ENGINEERING APPROVAL:

SHEET TITLE:

PANEL MOUNT  
DETAIL

SHEET NUMBER:



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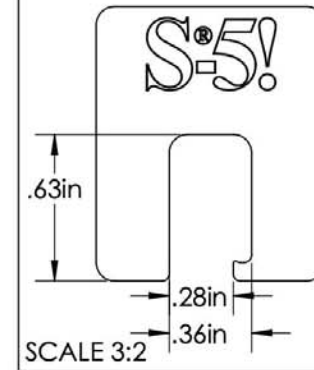
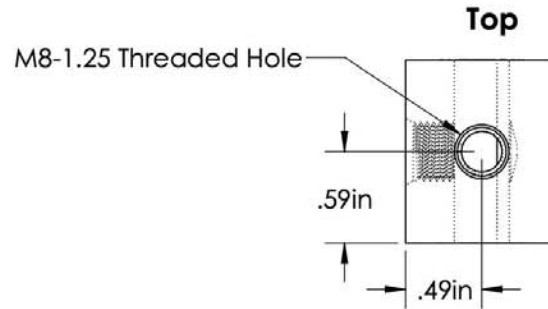
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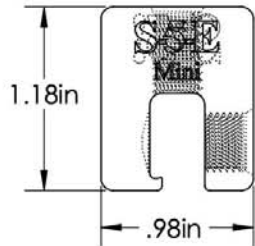
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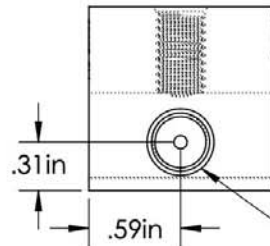
# S-5-E Mini



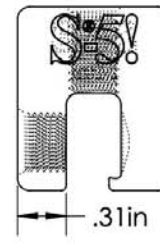
**Back**



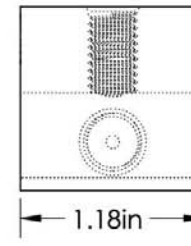
**Left**



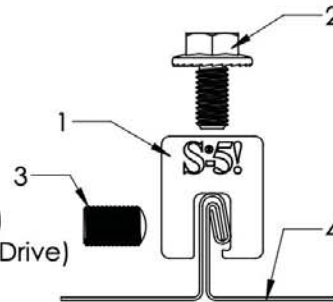
**Front**



**Right**



3/8-24 Threaded Hole



**General Notes:**

1. S-5-E Mini Clamp
2. M8-1.25 Stainless Steel Hex Flange Bolt (13mm Socket)
3. 3/8-24 Stainless Steel Round Point Setscrew (3/16 Hex Drive)
4. Example roof

**FOR STANDING SEAM SPECIFIC MECHANICAL LOAD TEST INFORMATION AND CLAMP INSTALLATION INFORMATION PLEASE VISIT: [WWW.S-5.COM](http://WWW.S-5.COM)**

MATERIAL: 6061 T6	 The Right Way!	METAL ROOF INNOVATIONS, LTD. 8655 TABLE BUTTE RD COLORADO SPRINGS, CO 80908 719-495-0518 719-495-0045(FAX)	
EST ASSEMBLY WEIGHT 0.147 lbs		TITLE S-5-E Mini	DATE 10/12/2016
SUPPLIED HARDWARE: M8-1.25 x 1.6 mm Bolt 3/8-24 x .500" Setscrew	SCALE: 1:1	DRAWING NO: E03-B-1-D	DRAWN BY: Kali Kadakas
EST. WEIGHT: Clamp: 0.102 lbs Setscrew: 0.0100 lbs Bolt: 0.0345 lbs	S-5! PRODUCTS ARE PROTECTED BY MULTIPLE U.S. AND FOREIGN PATENTS. VISIT OUR WEBSITE AT <a href="http://WWW.S-5.COM">WWW.S-5.COM</a> FOR COMPLETE INFORMATION ON PATENTS AND TRADEMARKS.		

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FRIENDS  
SELECT  
SCHOOL

PROJECT DETAILS:

DESIGN & DRAFTING:

ADAM STEIN

DATE:

NOVEMBER 5, 2021

ENGINEERING APPROVAL:

SHEET TITLE:

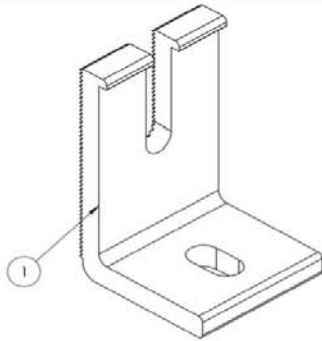
S-5-E  
CLAMP DETAIL

SHEET NUMBER:



Cut Sheet

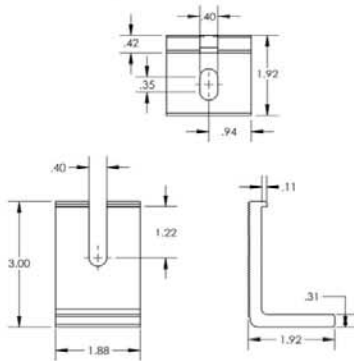
### L-Foot



ITEM NO	DESCRIPTION	QTY IN KIT
1	FOOT, EXTRUDED L - SLOTTED	4

PART NUMBER	DESCRIPTION
FM-LFT-003	Kit, 4Pcs, Slotted L-Foot, Mill
FM-LFT-003-B	Kit, 4Pcs, Slotted L-Foot, Black

1) Foot, Extruded L - Slotted

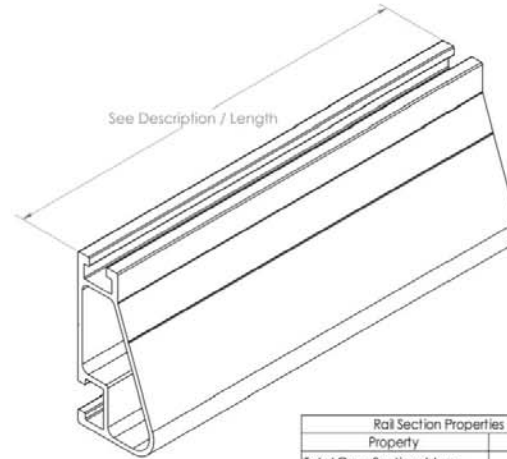


v1.11



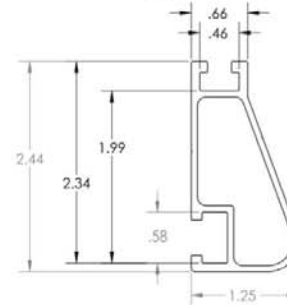
Cut Sheet

### XR100 Rail



Rail Section Properties	
Property	Value
Total Cross-Sectional Area	0.582 in <sup>2</sup>
Section Modulus (X-axis)	0.297 in <sup>3</sup>
Moment of Inertia (X-axis)	0.390 in <sup>4</sup>
Moment of Inertia (Y-axis)	0.085 in <sup>4</sup>
Torsional Constant	0.214 in <sup>4</sup>
Polar Moment of Inertia	0.126 in <sup>4</sup>

APPROVED MATERIALS:  
6005-T6, 6005A-T61, 6105-T5, 6N01-T6  
(34,000 PSI YIELD STRENGTH MINIMUM)



Clear Part Number	Block Part Number	Description / Length	Material	Weight
XR-100-132A	XR-100-132B	XR100, Rail 132" (11 Feet)	6000-Series Aluminum	7.50 lbs.
XR-100-168A	XR-100-168B	XR100, Rail 168" (14 Feet)		9.55 lbs.
XR-100-204A	XR-100-204B	XR100, Rail 204" (17 Feet)		11.60 lbs.

v1.1

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FRIENDS  
SELECT  
SCHOOL

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DESIGN & DRAFTING:

ADAM STEIN

DATE:

NOVEMBER 5, 2021

ENGINEERING APPROVAL:

SHEET TITLE:

IRONRIDGE  
DETAIL

SHEET NUMBER: