

**CITY OF ST. HELENS PLANNING DEPARTMENT**  
**STAFF REPORT**  
**Historic Resource Review HRR.1.26**

**DATE:** May 28, 2026  
**TO:** Planning Commission  
**FROM:** Jacob A. Graichen, AICP, City Planner

**APPLICANT:** Brenden Hart, Hart Architects  
**OWNER:** Columbia County

**ZONING:** Houlton Business District, HBD  
**LOCATION:** 251 St. Helens Street  
**PROPOSAL:** Addition of rooftop photovoltaic array to John Gumm Building & Civic Center.  
This building is a Designated Landmark.

**SITE INFORMATION / BACKGROUND**

The Olde School, known as the John Gumm School after a major benefactor, is deemed a “Secondary Significant” structure in the St. Helens Downtown Historic District from the National Register of Historic Places. It was built in 1919 in the “Georgian Revival” style. A description of architectural features and history of the structure are included in the following excerpt from the district’s nomination form from 1984:

“The John Gumm School is a two story 'L' shaped structure with a five-bay symmetrical front. The building has stucco siding and eight-over-eight double-hung wood sash windows which are generally in groupings of four. The central bay is a pedimented pavilion, supported by two pairs of large Tuscan columns. The bays flanking the central pavilion have groupings of four double-hung windows at the first and second stories and the end bays have fixed sash windows high in the second story wall. The east and west sides of the building are three bays wide. The central bay has a doorway with top and side lights at the first story and irregular fenestration at the second story. The central bay is flanked with identical bays which have four double-hung sash windows at the first and second story level. The fenestration on the rear of the building is irregular.

Except for the modification to some windows on the rear facade; the building appears to be entirely intact. In 1902, the first John Gumm School, a two-story wood frame structure with a stone foundation, was built on the site of the present John Gumm School. It was destroyed in a fire which broke out during the night of September 16, 1918. The origin of the fire was a mystery although many believed it had been started by an arsonist. After much delay and public discussion, the school directors called a special meeting to the legal voters of District No. 2 on December 7. They proposed to construct a building of tile and fire resisting material on the site of the old building.”

According to the 1999-2000 John Gumm School Yearbook (the school’s last yearbook) which was uploaded to the Columbia County History Museum’s website, the school served grades 1-12

from 1919 to 1926, grades 1-8 until 1958, and grades K-6 until December 1999. In December 1999, the building was declared unsafe and closed immediately.

It was later reopened partially for various office, storage, and commercial activities. The 2<sup>nd</sup> floor was left unfinished with no use established. It operated this way until purchase by Columbia County.

Columbia County purchased the property in 2021 and renovated the building for County Government and related functions. This was completed in 2024. The current proposal is a continuation of the County's efforts for the building and property.

### **PUBLIC HEARING & NOTICE**

**Public hearing** before the Planning Commission: June 9, 2026

**Notice** of this proposal was sent to surrounding property owners within 300 feet of the subject property(ies) on May 20, 2026 via first class mail. Notice was sent to agencies by mail or e-mail on the same date.

**Notice** was published on May 29, 2026 in the Columbia County Spotlight newspaper.

### **AGENCY REFERRALS & COMMENTS**

**City Engineering:** I've reviewed the John Gumm Rooftop PV Array and Historic Resource Review and do not have any major comments. Their exhibits show an increase in area for their electrical equipment, but it is all shown as non-impervious.

It looks like the attachments to the roof for the solar array are light weight and watertight. So hopefully there wouldn't be any concerns for roof leaks.

They mentioned their structural engineer checked the additional dead load of the solar panels and the roof would be able to support them. They should provide documentation for worst case scenarios (heavy snow loads or wind loads and the additional weight of the solar panels) on the roof to show that it will be supported.

### **APPLICABLE CRITERIA, ANALYSIS & FINDINGS**

The applicable code section is SHMC 17.36.040(3) Criteria for alteration:

**(3) In order to approve an application for the alteration of a designated landmark or historic resource of statewide significance, the commission must find that the proposal meets the following standards:**

- (a) The purpose of the historic overlay district as set forth in SHMC 17.36.005.
- (b) The provisions of the comprehensive plan.
- (c) A property shall be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.

(d) The historic character of a property shall be retained and preserved. The removal or relocation of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property shall be avoided.

(e) A property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, shall not be undertaken.

(f) Changes to a property that have acquired historic significance in their own right shall be retained and preserved.

(g) Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.

(h) 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, where possible (including environmental considerations), materials. Replacement of missing features shall be substantiated by documentary and physical evidence.

(i) Chemical and physical treatments, if appropriate, shall be undertaken using the gentlest means possible. Treatments that cause damage to historic materials shall not be used.

(j) Archeological resources shall be protected and preserved in place. If such resources must be disturbed, mitigation measures shall be undertaken.

(k) New additions, exterior alterations, or related new construction shall not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and shall be compatible in appearance with the historic materials, features, size, scale and proportion, and massing to protect the integrity of the property and its environment.

(l) New additions and adjacent or related new construction shall be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.

(4) Prior to alteration, current photographs and/or drawings of all elevations shall be provided to the city for its public records. Photographs and drawings shall be archival quality and may be digital; proof of such shall be provided with the photographs and/or drawings.

**Findings:** The applicant addresses the criteria well in their narrative.

The applicant notes the parapets will screen the proposed photovoltaic array and such will not be visible from *most* vantage points.

It is anticipated to be screened by the parapets on all sides facing public streets (the front and sides). On the back side, opposite St. Helens Street, the proposed photovoltaic array will be visible from some vantage points, but where they would be most visible from the hill south of the subject property there are trees that obscure the building, and thus, also the proposal.

In short, the proposed is not anticipated to be blatantly visible from the back side.



The John Gumm building as seen from the public parking area southeast from the building. The reduced parapet area is visible mid-building. The photovoltaic array may be somewhat visible from this angle but not anticipated to be significantly so.



Viewing the back of the building closer, the angle of view should generally obscure the proposal.



Viewing the back of the building from the Southwest side, the photovoltaic array may be somewhat visible from this angle, but not but not anticipated to be significantly so.



Viewing the back of the building from the elevated residential area south of it. Existing trees obscure the building, and thus, also the proposal.

Regarding 17.36.040(4), the materials provided by the applicant in addition to photos taken by staff for this proposal and previously for the renovation effort the County undertook, provide good photographic records.

#### **CONCLUSION & RECOMMENDATION**

**Based upon the facts and findings herein, staff recommends approval of this proposal.**

**Attachment(s):** Applicant's HRR narrative  
Applicant's HRR exhibits



## JOHN GUMM BUILDING: ROOFTOP PV ARRAY

HISTORIC RESOURCE REVIEW NARRATIVE

MAY 8, 2026

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### PROJECT TEAM

#### OWNER:

Columbia County

Contact Person: Riley Baker  
230 Strand Street  
St. Helens, OR, 97051  
PHONE: 971.328.2537  
EMAIL: riley.baker@columbiacountyor.gov

#### PROJECT DEVELOPER:

Ameresco, Inc.

Contact Person: Natasha Coats  
9700 SW Capitol Highway, Suite 110  
Portland, OR 97219  
PHONE: 503.290.1297  
EMAIL: ncoats@ameresco.com

#### APPLICANT:

Hart Architects

Contact Person: Brendan Hart  
2130 N. Kilpatrick Street  
PO Box 17250  
Portland, OR 97217  
PHONE: 503.572.0348  
EMAIL: brendan@hartarchitects.com

### ZONING SUMMARY

PROPERTY ADDRESS:	251 St. Helens Street, St. Helens, Oregon 97501
TAXLOT:	4N1W3BB12600
COUNTY:	Columbia
JURISDICTION:	St. Helens
ZONING DESIGNATION:	RD (Riverfront District) PLAZA (Subdistrict by Ordinance No. 3215 Att. C)
HISTORIC STATUS:	St. Helens Downtown Historic District Contributing Building, Secondary Significance City of St. Helens Designated Landmarks Register Ord. No. 3250, Att. B, Item 10

## PROJECT NARRATIVE

The John Gumm Building is located at 251 St. Helens Street on a one-acre site in St. Helens, Oregon. The property is zoned in the Riverfront District, Plaza subdistrict. The John Gumm Building is listed as a Local Landmark and as a contributing structure in the St. Helens Downtown Historic District (842001501) on the National Register of Historic Places. The building was constructed in 1919 as a schoolhouse. In 1999, the site was converted for use as mixed-tenant commercial space. In 2024, Columbia County completed an extensive renovation and alteration of the building to repurpose it for its current municipal use. The property also contains an additional structure (originally the playground enclosure for the school), which is used as a storage facility by the County.

In the description in the National Historic Register Listing of the St. Helens Downtown Historic District (842001501), the John Gumm Building is noted, among other description, as a “two story ‘L’ shaped structure with a five-bay symmetrical front. The parapet wall across the front façade and east and west sides is detailed with a simple entablature.”

The proposed project will add a ballasted photovoltaic (PV) array to a portion of the building’s roof, taking advantage of the ideal orientation and exposure of the roof to improve the energy resilience of the building and its essential functions. This work is limited to the relatively flat northern portion of the roof. As the array will have a maximum height of approximately 12”, it will be screened by the existing roof parapets. The array itself is ballasted, which minimizes the need for mechanical attachments to the existing roof. This project was anticipated during the recent rehabilitation and adaptive reuse of the John Gumm Building by Columbia County, and the existing roof structure has been assessed for its capacity to support the proposed PV array, with necessary upgrades as well as preparation and routing for the electrical system completed during that previous project. The project will not otherwise alter the historic building’s exterior.

Please see the Exhibits included in this application for additional information. As this project is proposed on a publicly owned historic property, it will be concurrently reviewed by the Oregon State Historic Preservation Office in an application per the requirements of ORS 358.653. Associated with this project, there is at-grade site work proposed to the east of the outbuilding. As this scope is not associated with the John Gumm Building historic resource, it is described in a separate Minor Site Development Review application, which is submitted concurrent to this application.

## CRITERIA FOR ALTERATION (SHMC 17.36.040)

The alteration being proposed respond to all individual requirements of 17.36.040(3). The below narrative lists relevant criteria from the St. Helens Municipal Code in **bold**, with a subsequent narrative description of how each criteria is met by the project.

**3) In order to approve an application for the alteration of a designated landmark or historic resource of statewide significance, the commission must find that the proposal meets the following standards:**

**a) The purpose of the historic overlay district as set forth in SHMC 17.36.005**

The proposed project supports the purpose of the historic overlay district (specific language noted in *italics*) by:

(1) *Protecting, enhancing, and perpetuating the city’s cultural, social, economic, political, and architectural history* by providing stable power to the John Gumm Building without adverse or irreversible impact to the historic structure.

(2) *Safeguarding the city's historic, aesthetic, and cultural heritage* by improving the resilience of key building systems in the John Gumm Building.

(3) *Complementing any registered historic or cultural area designated in the city* by sensitively locating the proposed alterations to retain the building's historic character

(4) *Stabilizing and improving property values* by providing a reliable energy source to the property

(5) *Fostering civic pride in the accomplishments of the past* by demonstrating how the John Gumm Building continues to be adaptable and resilient over 100 years after its initial construction.

(6) *Protecting and enhancing the city's attraction to tourists and visitors* by ensuring improved resiliency to the building, which includes the Columbia County Historical Museum.

(7) *Strengthening the economy of the city* by improving the resiliency of key civic functions to retain power during emergencies.

(8) *Promoting the use of historic districts and landmarks* by showing how they can be sensitively adapted to serve as models of energy conservation without adverse impact to their historic character.

**b) The provisions of the comprehensive plan**

This project supports the general goals and policies of the St. Helens Comprehensive Plan. Specifically, this project addresses the Comprehensive Plan's goals to "provide public facilities, utilities, and services which are necessary for the well-being of the community" [19.08.030(2.a)] by improving energy resilience to this public property. It also specifically supports the policies of the Comprehensive Plan to "to subject proposed alteration of the city's historic resources to design review" [19.08.060(3.k)] and to "encourage the adaptive reuse of historic resources" [19.08.060(3.m)].

**c) A property shall be used as it was historically or be given new use that requires minimal change to its distinctive materials, features, spaces and spatial relationships.**

The building's original use as a school ceased in 1999. Since then, office uses have been approved through previous permits since 2000. No new uses are proposed as part of this project. The distinctive features of the John Gumm Building, including its massing, entry portico, and windows will not be affected by this project, which is limited to portions of the roof which are not visible from public ways. The roof itself is not original and the weight of the proposed PV panels has been assessed by the project's structural engineer to confirm the capacity of the existing structure to support the new loads with no adverse impact.

**d) The historic character of a property shall be retained and preserved. The removal or relocation of distinctive materials or alteration of features, spaces, and spatial relationships that characterize a property shall be avoided.**

No removal of existing features is proposed as part of this project. As demonstrated in the included exhibits, the proposed alteration to the roof occurs in a portion of the roof screened from view by its flat nature and the adjacent parapet walls. This portion of the roof has no impact on the historic character of the building.

**e) A property shall be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historic properties, shall not be undertaken.**

The proposed project, not visible from most vantages, is also clearly distinguishable from the original structure as photovoltaic technology did not exist at the time of initial construction.

- f) **Changes to a property that have acquired historic significance in their own right shall be retained and preserved.**  
The building's roof form is original. No changes or alterations are proposed to this form as part of the project. The building's roofing is approximately 20 years old, and is a standard membrane product with no historic significance. In any case, the ballasted PV array proposed in this project will have limited impact to the existing roofing, with minimal mechanical attachments.
- g) **Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property shall be preserved.**  
This project does not impact any of the materials, features, finishes, construction techniques, or examples of craftsmanship that characterize the property.
- h) **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, where possible (including environmental considerations), materials. Replacement of missing features shall be substantiated by documentary and physical evidence.**  
No features of the building, including historic features, are proposed for removal. As the building was recently rehabilitated in 2024, it is not expected that any deteriorated features will be encountered.
- i) **Chemical and physical treatments, if appropriate, shall be undertaken using the gentlest means possible. Treatments that cause damage to historic materials shall not be used.**  
No potentially damaging chemical or physical treatments will occur as part of this project. As shown in the included exhibits, the PV array will be minimally attached to the existing roof through standard mechanical attachments which are reversible.
- j) **Archeological resources shall be protected and preserved in place. If such resources must be disturbed, mitigation measures shall be undertaken.**  
There are no known archeological resources on site. If such resources are discovered, measures will be taken to ensure proper mitigation and resource protection. This project will concurrently submit an application to the State Historic Preservation Office per ORS 38.653, which will include Tribal outreach.
- k) **New additions, exterior alterations, or related new construction shall not destroy historic materials, features, and spatial relationships that characterize the property.**  
The proposed rooftop alteration will not destroy the historic roof form or any other feature of the building. The existing structure has been assessed to confirm it can accommodate the modest additional load of the PV array and the array itself will have limited mechanical attachments which are easily repairable.
- l) **New additions and adjacent or related new construction shall be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.**  
As a ballasted system, the proposed PV array is easily removable if the need or desire should arise in the future. This removal would have no impact on the essential form or integrity of the historic property.

# JOHN GUMM BUILDING HRR APPLICATION - PROJECT INFORMATION

## PROJECT TEAM

### CLIENT

Columbia County  
Contact Person: Riley Baker  
230 Strand Street  
St. Helens, OR, 97051  
PHONE: 971.328.2537  
EMAIL: riley.baker@columbiacountyor.gov

### PROJECT DEVELOPER

Ameresco, Inc.  
Contact Person: Natasha Coats  
9700 SW Capitol Highway, Suite 110  
Portland, OR 97219  
PHONE: 503.290.1297  
EMAIL: ncoats@ameresco.com

### APPLICANT

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Contact Person: Brendan Hart  
2130 N. Kilpatrick Street  
Portland, OR 97217  
PHONE: 503.572.0348  
EMAIL: brendan@hartarchitects.com

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The proposed project will add a ballasted photovoltaic (PV) array to a portion of the building's roof, taking advantage of the ideal orientation and exposure of the roof to improve the energy resilience of the building and its essential functions. This work is limited to the relatively flat northern portion of the roof. As the array will have a maximum height of approximately 12", it will be screened by the existing roof parapets. The array itself is ballasted, which minimizes the need for mechanical attachments to the existing roof. This project was anticipated during the recent rehabilitation and adaptive reuse of the John Gumm Building by Columbia County, and the existing roof structure has been assessed for its capacity to support the proposed PV array, with necessary upgrades as well as preparation and routing for the electrical system completed during that previous project. The project will not otherwise alter the historic building's exterior.

Please see the Exhibits included in this application for additional information. As this project is proposed on a publicly owned historic property, it will be concurrently reviewed by the Oregon State Historic Preservation Office in an application per the requirements of ORS 358.653. Associated with this project, there is at-grade site work proposed to the east of the outbuilding. As this scope is not associated with the John Gumm Building historic resource, it is described in a separate Minor Site Development Review application, which is submitted concurrent to this application.

## PROJECT INFORMATION

### ADDRESS:

JOHN GUMM BUILDING & CIVIC CENTER  
251 ST. HELENS STREET  
ST. HELENS, OREGON 97501

### TAX LOT:

4N1W3BB12600

### HISTORICAL DESIGNATION:

ST. HELENS DOWNTOWN HISTORIC DISTRICT (842001501)  
CONTRIBUTING BUILDING, SECONDARY SIGNIFICANCE  
ITEM 7, PAGES 66-67  
CITY OF ST. HELENS DESIGNATED LANDMARKS REGISTER, ORDINANCE NO. 3250

### YEAR BUILT:

1919

### ZONING DESIGNATION:

RD (RIVER DISTRICT)  
PLAZA (SUBDISTRICT BY ORDINANCE No. 3215)

### ALLOWABLE HEIGHT PER ZONE:

45 FEET BY RD-PLAZA (EXISTING BLDG - NO CHANGE)

### LOT DIMENSIONS:

228 FT x 200 FT (NO CHANGE)

### LOT SIZE:

45,600 S.F. (NO CHANGE)

### EXIST. LOT COVERAGE:

JOHN GUMM:  
FOOTPRINT 11,134 S.F. / LOT SIZE 45,600 S.F. = 24.4% (NO CHANGE)  
ENCLOSED MAINTENANCE BLDG:  
FOOTPRINT 5,236 S.F. / LOT SIZE 45,600 S.F. = 11.5% (NO CHANGE)  
TOTAL = 35.9% (NO CHANGE)

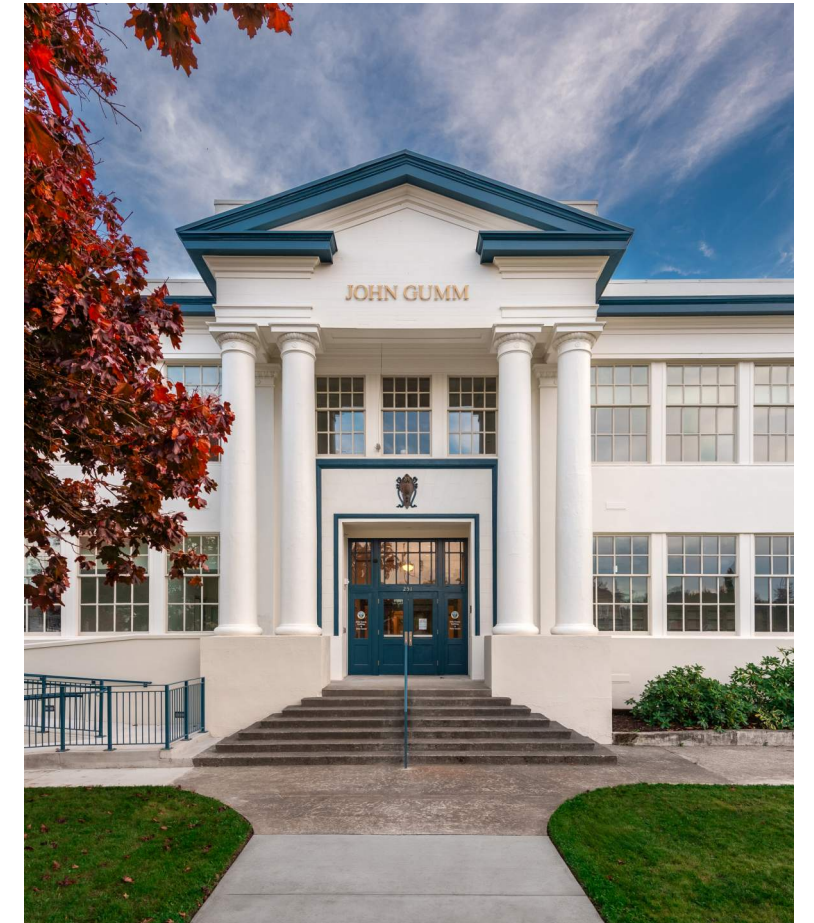
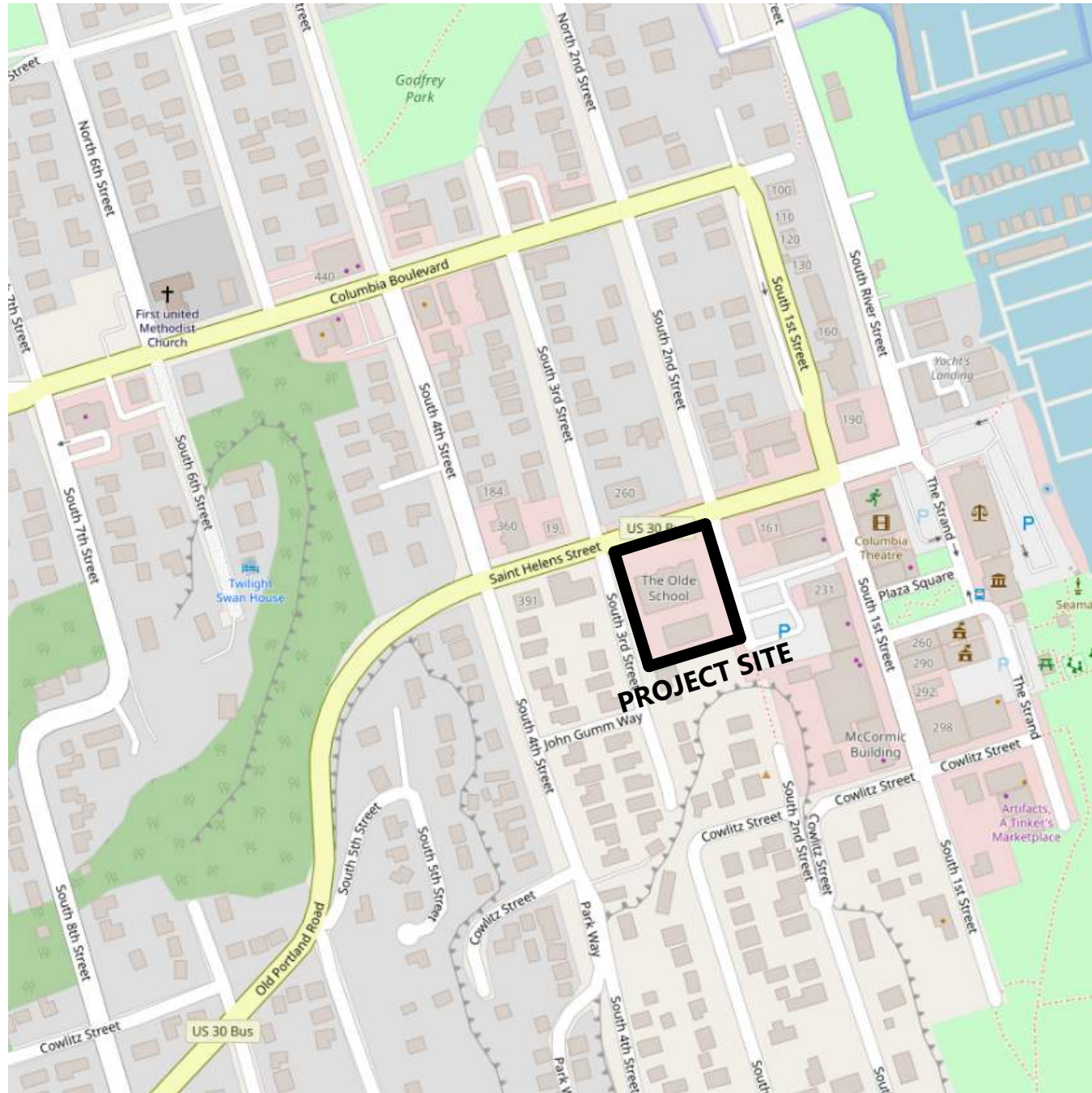


IMAGE CREDIT: DAVID HOMER

## SHEET LIST

HRR 1	JOHN GUMM BUILDING HRR APPLICATION - PROJECT INFORMATION
HRR 2	SITE CONTEXT & ZONING
HRR 3	PHOTO KEY PLAN
HRR 4	SITE PHOTOS
HRR 5	HISTORIC PHOTOS
HRR 6	EXISTING SITE PLAN
HRR 7	PROPOSED SITE PLAN
HRR 8	PROPOSED ROOF PLAN
HRR 9	PROPOSED ELEVATIONS
HRR 10	PROPOSED ELEVATIONS
HRR 11	PV ARRAY - PROPOSED DETAILS
HRR 12	ROOFTOP EQUIPMENT

# SITE CONTEXT & ZONING



**VICINITY MAP**

NOT TO SCALE

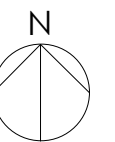


**ZONING LEGEND**

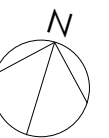
- GENERAL COMMERCIAL (GC)
- MIXED USE (MU)
- GENERAL RESIDENTIAL (RS)
- RIVERFRONT DISTRICT (RD)

**ZONING MAP**

NOT TO SCALE



# PHOTO KEY PLAN



JOHN GUMM BUILDING PV  
251 ST. HELENS STREET  
ST. HELENS, OR 97051

**HART**  
ARCHITECTS  
NOT FOR CONSTRUCTION

HISTORIC RESOURCE REVIEW  
HRR 3  
05/08/2026

# SITE PHOTOS



01 NORTH FACADE



02 VIEW FROM NORTHWEST



03 VIEW FROM NORTHEAST



04 VIEW TO PROPERTY FROM EAST



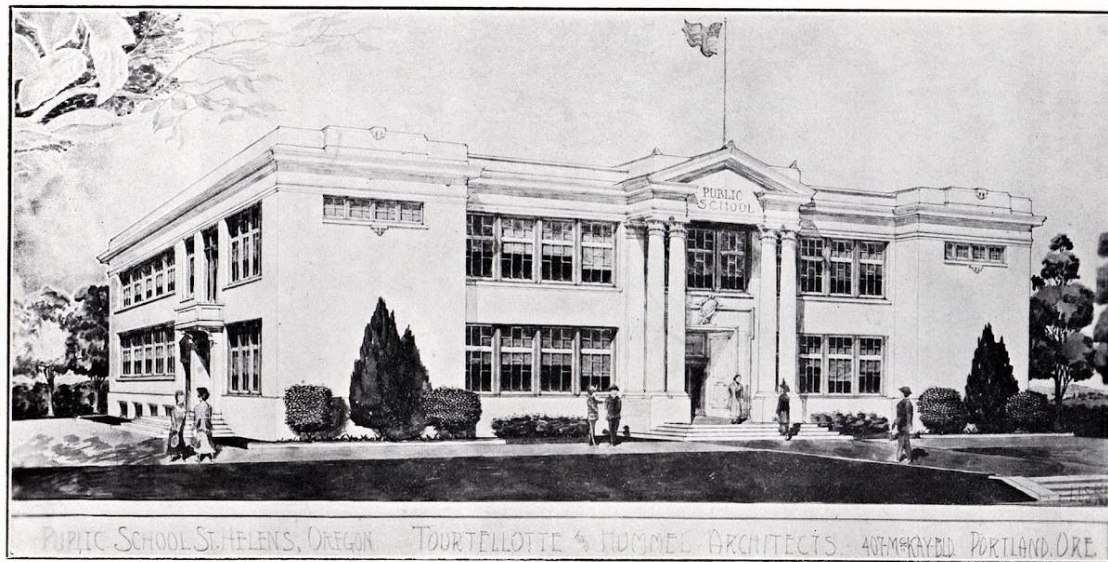
05 VIEW TO PROPERTY FROM SOUTHEAST



06 VIEW OF ROOF

# HISTORIC PHOTOS

ORIGINAL RENDERING



1924 PHOTO

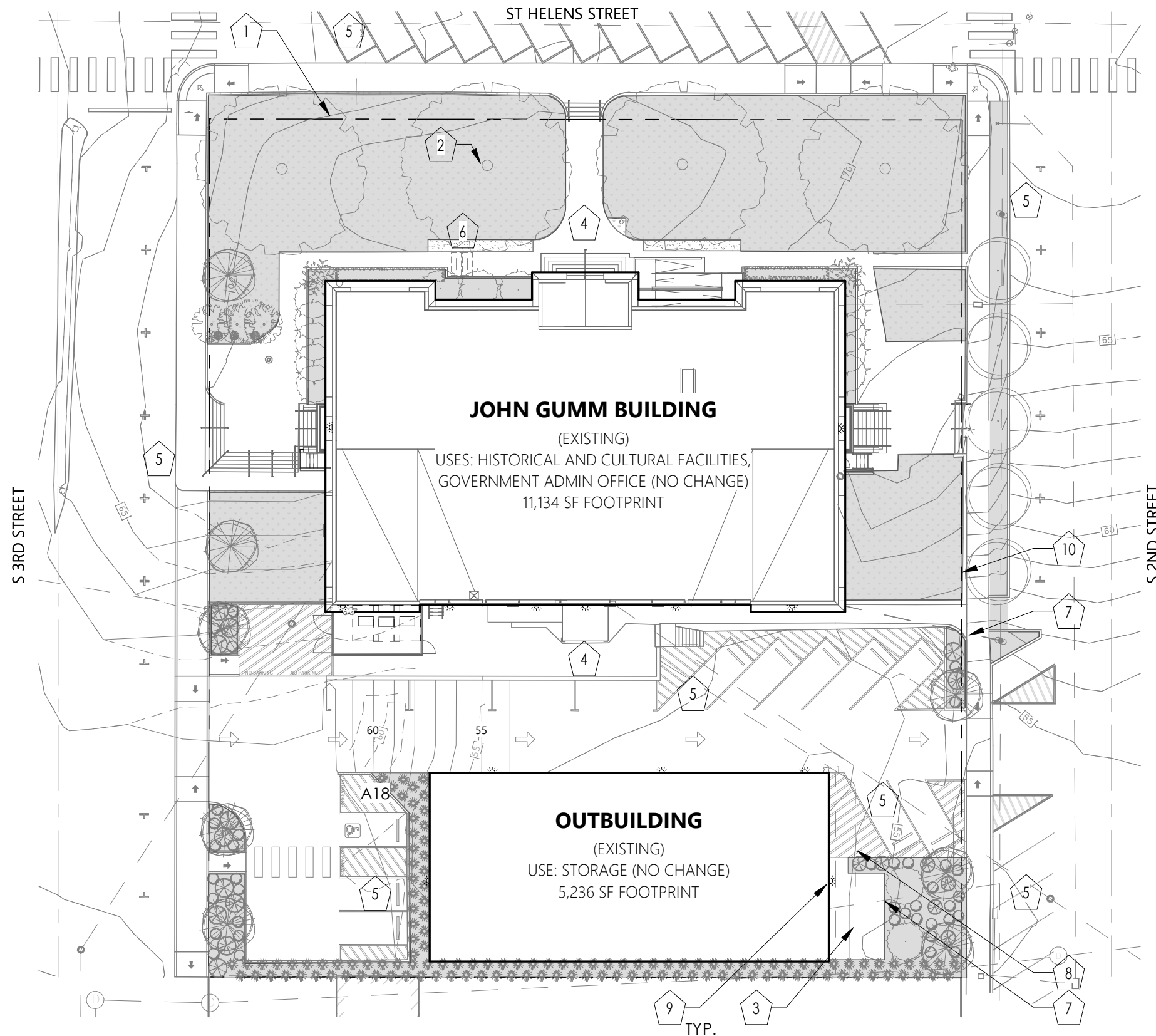


1968 AERIAL



NOTE DIFFERENT ROOF MATERIAL AND ROOFTOP EXTENSIVE EQUIPMENT




# EXISTING SITE PLAN



## LEGEND

### KEYNOTES

- | #  |  |
|----|--|
| 1  | PROPERTY LINE  |
| 2  | EXISTING TREE WITH GREATER THAN 6" CALIPER                   |
| 3  | EXISTING GRAVEL AREA   |
| 4  | EXISTING ACCESSIBLE ENTRY (NO CHANGES PROPOSED)              |
| 5  | EXISTING VEHICULAR PARKING (NO CHANGES PROPOSED)             |
| 6  | EXISTING BICYCLE PARKING (NO CHANGES PROPOSED)               |
| 7  | EXISTING OVERHEAD POWER (NO CHANGE PROPOSED)                 |
| 8  | EXISTING CONDUIT FOR UNDERGROUND POWER (NO CHANGES PROPOSED) |
| 9  | EXISTING SITE LIGHTING, TYP (NO CHANGES PROPOSED)            |
| 10 | EXISTING CHAINLINK FENCE (NO CHANGES PROPOSED)               |

- |   |                             |
|---|-----------------------------|
|                | EXISTING IMPERVIOUS SURFACE |
|                | EXISTING PLANTED SURFACE    |
| <br>(OR SIM) | EXISTING PLANT              |

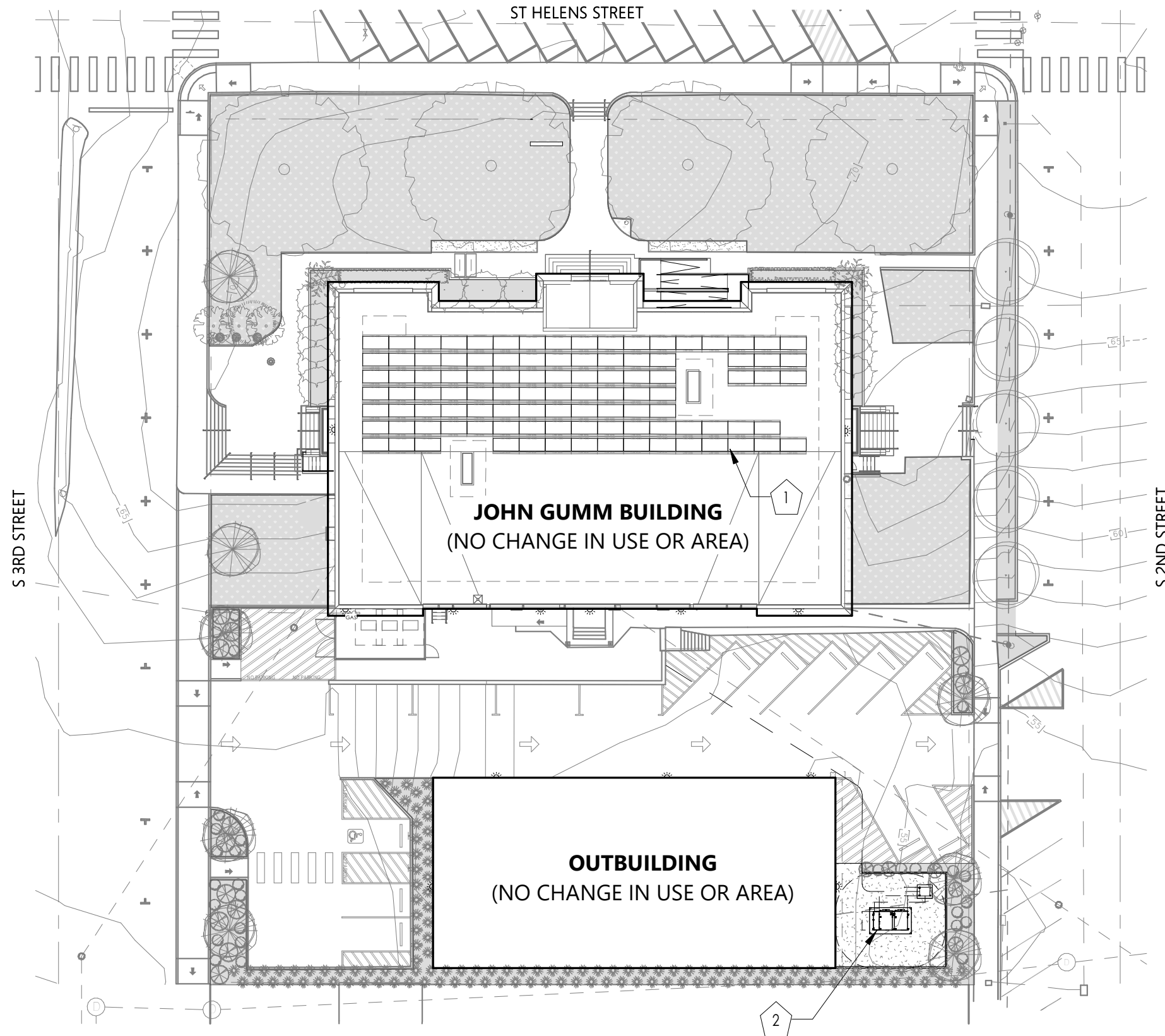
1 JOHN GUMM HRR SITE PLAN - EXISTING  
SCALE: 1/32" = 1'-0"

JOHN GUMM BUILDING PV  
251 ST. HELENS STREET  
ST. HELENS, OR 97051

**HART**  
ARCHITECTS  
NOT FOR CONSTRUCTION

HISTORIC RESOURCE REVIEW  
HRR 6  
05/08/2026

# PROPOSED SITE PLAN



## LEGEND

### KEYNOTES

- | KEYNOTE # | DESCRIPTION                                |
|-----------|--|
| 1         | ROOFTOP BALLASTED PV ARRAY                 |
| 2         | ELECTRICAL EQUIPMENT & SCREENING ENCLOSURE |

- |  |  |
|--|--|
|  | NONCOMBUSTIBLE DRAINING SURFACE (PEA GRAVEL, OR SIM) |
|  | EXISTING IMPERVIOUS SURFACE                          |
|  | EXISTING PLANTED SURFACE                             |
|  | EXISTING PLANT<br>(OR SIM)                           |

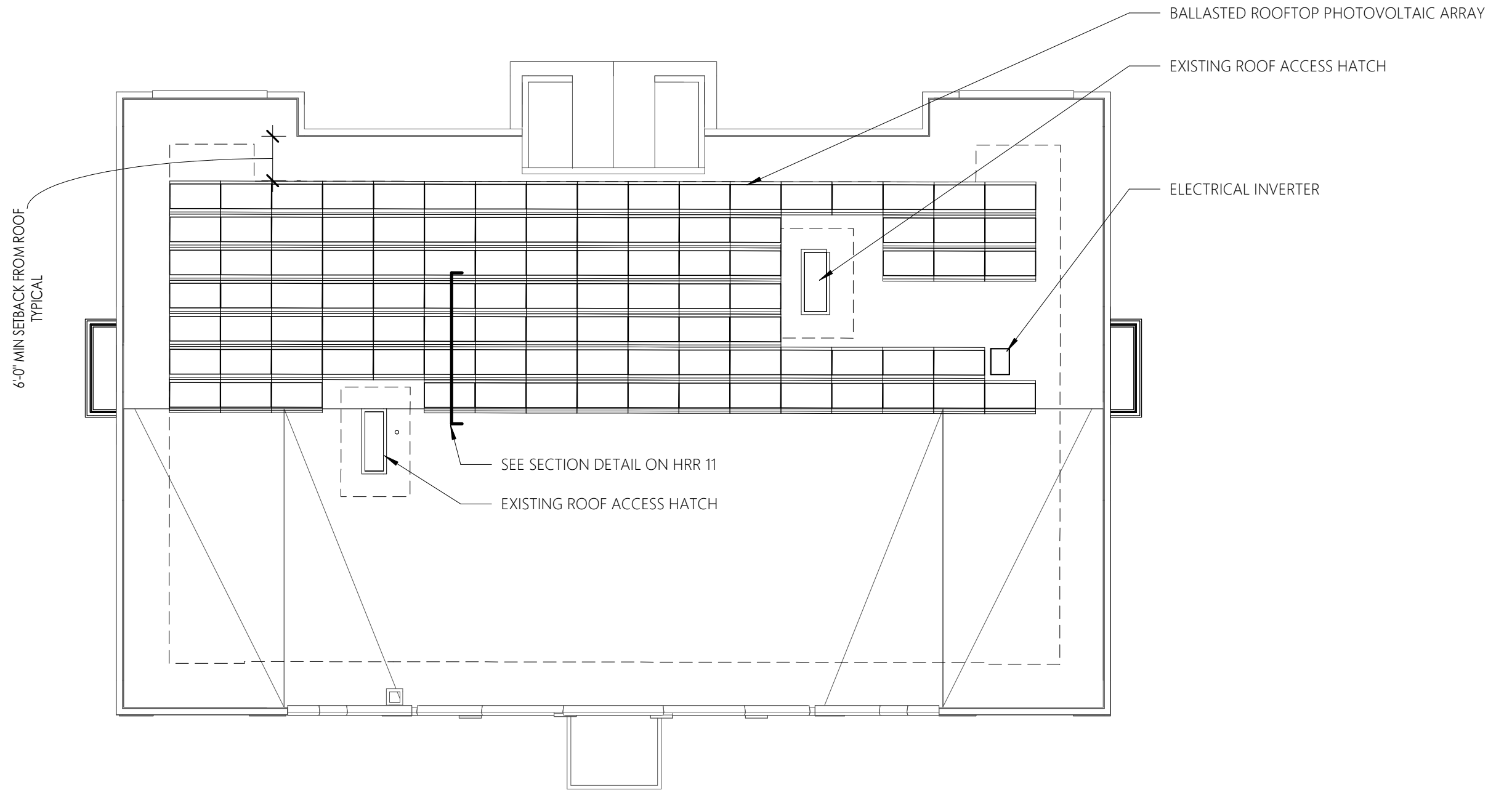
1 JOHN GUMM HRR SITE PLAN - PROPOSED  
SCALE: 1/32" = 1'-0"

JOHN GUMM BUILDING PV  
251 ST. HELENS STREET  
ST. HELENS, OR 97051

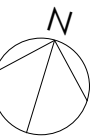
**HART**  
ARCHITECTS  
NOT FOR CONSTRUCTION

HISTORIC RESOURCE REVIEW  
HRR 7  
05/08/2026

# PROPOSED ROOF PLAN



1 PROPOSED ROOF PLAN  
SCALE: 1/16" = 1'-0"



# PROPOSED ELEVATIONS

NOTE: NO PROPOSED SCOPE IS NOT ANTICIPATED TO BE VISIBLE FROM THIS ELEVATION  
NOTE: NO PROPOSED SCOPE IS NOT ANTICIPATED TO BE VISIBLE FROM THIS ELEVATION



1 NORTH ELEVATION  
SCALE: 1/16" = 1'-0"

NOTE: NO PROPOSED SCOPE IS NOT ANTICIPATED TO BE VISIBLE FROM THIS ELEVATION



2 EAST ELEVATION  
SCALE: 1/16" = 1'-0"

# PROPOSED ELEVATIONS



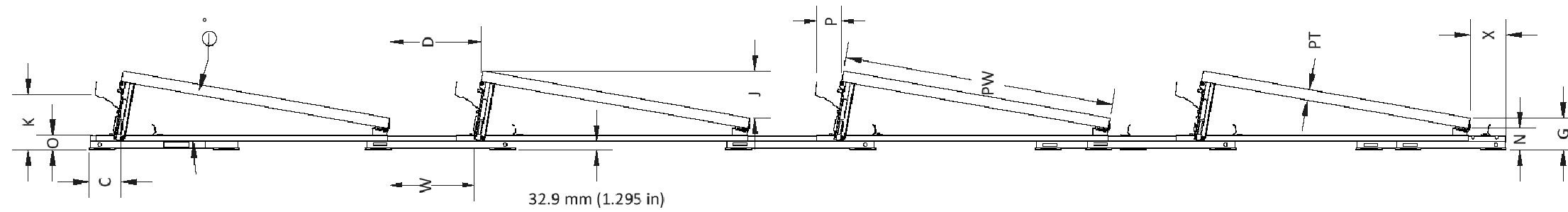
1 SOUTH ELEVATION  
SCALE: 1/16" = 1'-0"

NOTE: NO PROPOSED SCOPE IS NOT ANTICIPATED TO BE VISIBLE FROM THIS ELEVATION



2 WEST ELEVATION  
SCALE: 1/16" = 1'-0"

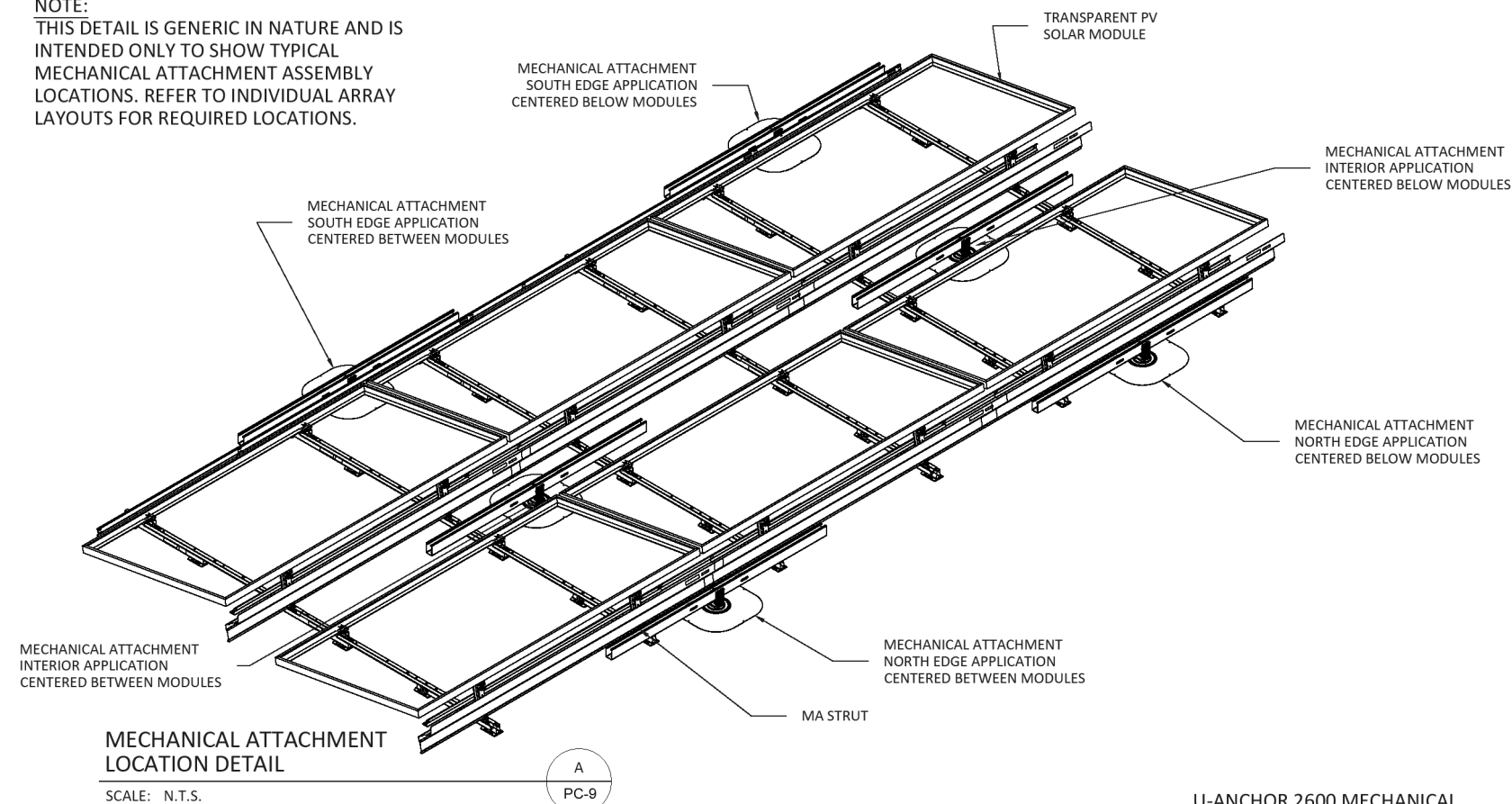
# PV ARRAY - PROPOSED DETAILS



**KEY DIMENSIONS (APPROXIMATE PENDING FIELD CONFIRMATION):**

G	J	G + J (TOTAL HEIGHT)
+/- 4.5"	+/- 7"	+/- 11.5"

**NOTE:**  
THIS DETAIL IS GENERIC IN NATURE AND IS INTENDED ONLY TO SHOW TYPICAL MECHANICAL ATTACHMENT ASSEMBLY LOCATIONS. REFER TO INDIVIDUAL ARRAY LAYOUTS FOR REQUIRED LOCATIONS.

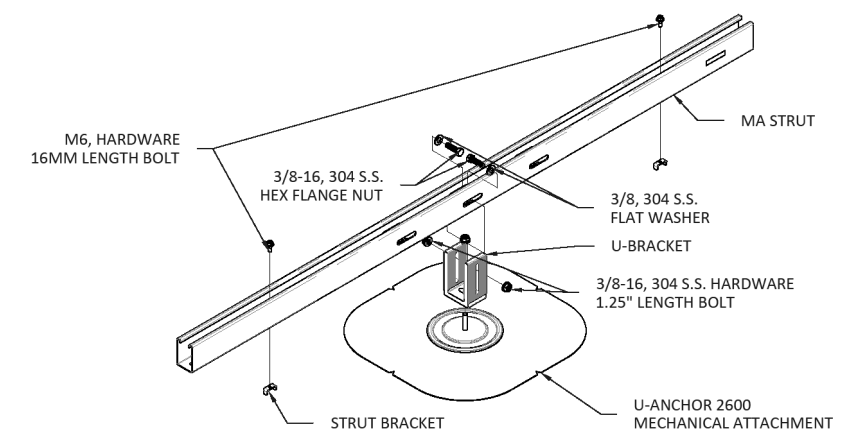


**MECHANICAL ATTACHMENT LOCATION DETAIL**

SCALE: N.T.S.

A  
PC-9

U-ANCHOR 2600 MECHANICAL ATTACHMENT: MANUFACTURED BY OTHERS



**MECHANICAL ATTACHMENT DETAIL**

SCALE: N.T.S.

B  
PC-9

# ROOFTOP EQUIPMENT



**EXAMPLE IMAGE:  
BALLASTED PHOTOVOLTAIC PANELS & INVERTER ROOFTOP INSTALLATION**

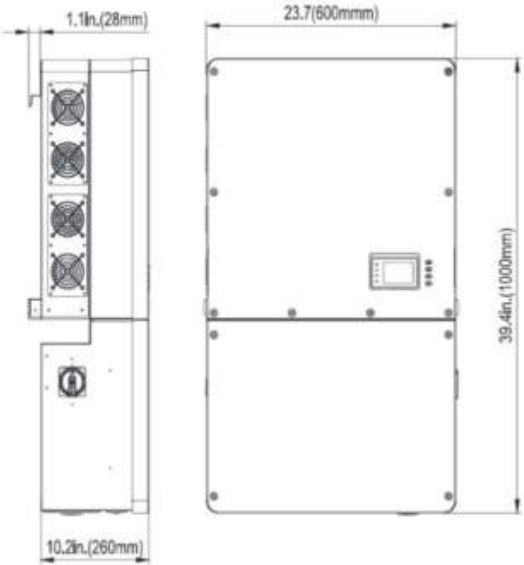


Figure 4-1 Inverter Dimensions

**EXAMPLE IMAGE AND TECHNICAL DETAIL:  
ROOFTOP INVERTER**