

## Members

Kevin Bartoy, Chair  
Roger Johnson, Vice Chair  
Jonathan Hart  
Sarah Hilsendeger  
Jennifer Mortensen  
Alex Morganroth  
Lysa Schloesser  
Holly Stewart  
Carol Sundstrom  
Jeff Williams

Deborah Cade, North Slope Ex-Officio  
Leah Jaggars, Wedge Ex-Officio

## Staff

Reuben McKnight, Historic Preservation Officer  
Lauren Hoogkamer, Assistant Historic Preservation Officer  
BT Doan, Office Assistant



# Agenda

## Landmarks Preservation Commission Planning and Development Services Department

Date: January 22, 2020  
Location: 747 Market, Tacoma Municipal Bldg, Conference Room 248  
Time: 5:30 p.m.

### 1. ACKNOWLEDGEMENT OF INDIGENOUS LANDS

### 2. ROLL CALL

### 3. CONSENT AGENDA

- A. Excusal of Absences
- B. Approval of Minutes:1/8/20
- C. Administrative Review:
  - 809 Pacific Ave.—Design Amendments

### 4. DESIGN REVIEW

- |  |  |         |
|--|--|---------|
| A. 1908 Pacific Ave. (Union Depot/Warehouse Historic District)<br><i>Temporary mural</i> | Ben Mauk, University of Washington Tacoma                | 5 mins  |
| B. 1122 N. K Street (North Slope Historic District)<br><i>Deck railings</i>              | Duc Dang, Owner  | 10 mins |
| C. 100 S 9 <sup>th</sup> Street, Bowes Building<br><i>Wireless installation</i>          | Ricquel Cardoza, LDC, Inc.<br>Richard Cardoza, LDC, Inc. | 10 mins |
| D. 603 N. Ainsworth Ave. (North Slope Historic District)<br><i>Garage replacement</i>    | Dawn Fast, R4 Construction                               | 10 mins |
| E. Seymour Conservatory (Individual Landmark)<br><i>Rehabilitation</i>                   | Sean Kelly, SHKS Architects                              | 10 mins |

### 5. PRESERVATION PLANNING/BOARD BUSINESS

- |  |       |         |
|--|-------|---------|
| A. Amendments to the Guidelines, Bylaws, and Inventory | Staff | 10 mins |
| B. Events & Activities Update                          | Staff | 3 mins  |

### 6. CHAIR COMMENTS

Next Regular Meeting: February 12, 2020, 747 Market Street, Tacoma Municipal Bldg., Rm. 248 5:30 p.m.

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## Members

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# MINUTES (Draft)

## Landmarks Preservation Commission Planning and Development Services Department

## Staff

Reuben McKnight, Historic Preservation Officer  
Lauren Hoogkamer, Assistant Historic Preservation Officer  
BT Doan, Office Assistant

**Date:** January 8, 2020

**Location:** 747 Market Street, Tacoma Municipal Building, Room 248

## Staff Present/Commissioners in Attendance:

Reuben McKnight, Chair  
Roger Johnson, Vice Chair  
Sarah Hilsendeger  
Jennifer Mortensen

## Others Present:

Lysa Schloesser  
Holly Stewart  
Carol Sundstrom  
Jeff Williams  
Deborah Cade  
Leah Jaggars

## Commissioner Members Excused:

Jonathan Hart

## Commission Members Absent:

N/A

Chair Kevin Bartoy called the meeting to order at 5:30 p.m.

### 1. ACKNOWLEDGEMENT OF INDIGENOUS LANDS

### 2. ROLL CALL

To welcome the new Commissioners and get acquainted, each member of the Commission introduced themselves.

### 3. CONSENT AGENDA

The agenda was approved as submitted.

#### a. Excusal of Absences

- Jonathan Hart

#### b. Approval of Minutes: November 13, 2019

The minutes of the meeting on 11/13/2019 was approved as submitted.

### 4. PRESERVATION PLANNING/BOARD BUSINESS

#### a. 100 S. 9<sup>th</sup> Street, Verizon Appeal

Mr. McKnight provided background context on the application, the Commission's decision along with their reasoning, and the appeal case. During the appeal hearing, the applicant indicated that they had designed a different plan from what had been submitted to the Commission and denied, for which they were appealing. The Hearing Examiner upheld the Commission's decision. Mr. McKnight advised the Commission to expect a new application for the project. He also informed the Commission that there were missing records of the antenna installations and decisions regarding them.

Vice-Chair Johnson pointed out that for similar cases, it was important to state the guidelines in the motion and refer to it during discussion to demonstrate clear thinking and decision-making process.

Commissioner Mortensen expressed appreciation towards Commissioner Williams and Commissioner Schloesser for representing the Commission at the hearing.

**b. Demolition Review Primer**

Mr. McKnight stated that the City Council had passed the ordinance for citywide demolition review last year based on the recommendation from the Landmarks Preservation Commission. He proceeded to explain previous regulations, then the new ones in comparison. He also presented a chart for the demolition review process. In summary, the Commission would be asked to provide evaluation on the significance of a number of buildings that were proposed for demolition.

Discussion ensued and Mr. McKnight provided clarifications about the code to the Commission, specifically regarding exceptions and processes.

**c. Amendments to the Guidelines, Bylaws, and Inventory**

Mr. McKnight informed the Commission that there was no proposed changes to the Bylaws and Inventory. However, there were changes to the Design Guidelines that were suggested by the Commission through a series of discussions. The proposed amendments mainly involved solar equipment, accessory structures, and windows.

Regarding the roof plan for a new accessory structure, Commissioner Williams felt that a single ridgeline was too restrictive and such specification should be removed. The Commission went on to discuss the guideline language for new accessory structures and garages, particularly its “compatibility” with the primary structure. Also discussed was the potential location for solar panels, especially discouraging solar panels on the front façade of a historic building.

After further discussion from the Commission, Mr. McKnight indicated that staff would come back with revised language for the guidelines on the January 22<sup>nd</sup>, 2020 meeting.

**d. Officer Elections**

Chair Bartoy and Vice-Chair Johnson agreed to continue serving in their respective position, which was approved by the Commission.

**e. Events & Activities Update**

The Historic Project Grant Workshop would take place on January 9<sup>th</sup>, 2020.

Historic Preservation Month would be celebrating cultural landscape.

Volunteers were needed for the FORUMS 2020 Conference (July 22-26<sup>th</sup>, 2020). Staff was also looking for sponsors. All Commissioners were encouraged to attend.

**5. DESIGN REVIEW**

**a. 2105 S. C Street (Individual Landmark) Brewery Blocks Rehab**

Mr. McKnight noted that the application was just over the threshold for administratively review and ended up in front of the Commission due to some changes to the storefront. Ms. Hoogkamer read the staff report as provided in the packet. Chair Bartoy remarked that, starting with this meeting, the Commission would have the opportunity to discuss and ask questions about the staff report before the applicant’s comment.

Commissioner Williams made a motion: *“I move that the Landmarks Preservation Commission approve the application for 2105 S. C Street as submitted, with the recommendation that the ductwork remains unpainted.”*

Commissioner Schloesser seconded the motion. It passed unanimously.

**6. CHAIR COMMENTS**

Chair Bartoy mentioned there was an Advisory Committee meeting afterward and provided some background information on the Committee for the new Commissioners.

The meeting was adjourned at 7:05 p.m.

*\*These minutes are not a direct transcription of the meeting, but rather a brief capture. For full-length audio recording of the meeting, please visit: <http://www.cityoftacoma.org/cms/One.aspx?portalId=169&pageId=67980>*





**STAFF REPORT**

January 22, 2020

**DESIGN REVIEW**

**AGENDA ITEM 4A:1908 Pacific Ave. (Union Depot/Warehouse Historic District)**

*Ben Mauk, University of Washington Tacoma*

**BACKGROUND**

Built in 1911, this is a contributing property in the Union Depot/Warehouse Historic District). Previously, the Commission was briefed on the University's desire for a temporary mural. The applicants is now seeking approval for the final design of the temporary, removable mural, which will feature the South Sound Together "Live Like the Mountain is Out" badge and include the Lushootseed language. The mural will be printed on a vinyl wrap product, allowing for removal in 12 to 18 months. The size is approximately 12' x 12' and it would be installed on the blank concrete portion of the north exterior wall of the Walsh Gardner Building.

**ACTION REQUESTED**

Approval of the above scope of work.

**STANDARDS**

**The Union Depot/Warehouse District Design Guidelines for Signs**, as applicable:

Location and Size of Signs:

1. Signs shall not dominate the building facades or obscure their architectural features (arches, transom panels, sills, moldings, cornices, windows, etc.).
2. The size of signs and individual letters shall be of appropriate scale for pedestrians and slow-moving traffic. Projecting signs shall generally not exceed nine square feet on first floor level.
5. Existing historic wall signs are a contributing element within the district and should be restored or preserved in place. New wall signs shall generally be discouraged.

Messages and Lettering Signs:

1. Messages shall be simple and brief. The use of pictorial symbols or logos is encouraged.
2. Lettering should be of a traditional block or curvilinear style which is easy to read and compatible with the style of the building. No more than two different styles should be used on the same sign.
3. Letters shall be carefully formed and properly spaced so as to be neat and uncluttered. Generally, no more than 60 percent of the total sign area shall be occupied by lettering.
4. Lettering shall be generally flat or raised.

Color:

1. Light-colored letters on a dark-colored background are generally required as being more traditional and visually less intrusive in the context of the Union Station District's predominantly red-brick streetscapes.
2. Colors shall be chosen to complement, not clash with, the facade color of the building. Signs should normally contain not more than three different colors.

## ANALYSIS

1. This property is a contributing structure in the Union Depot/Warehouse Historic District and, as such, is subject to review by the Landmarks Preservation Commission pursuant to TMC 13.05.047 for exterior modifications.
2. The proposed signage meets the district design guidelines for location, size, messaging, and lettering.
3. The proposed sign is temporary and will be removed without harming the historic brick.
4. No illumination is proposed.

## RECOMMENDATION

Staff recommends approval of the application.

### Recommended language for approval:

*I move that the Landmarks Preservation Commission approve the application for 1908 Pacific Ave., as submitted.*

### Recommended language for deferral:

*I move that the Landmarks Preservation Commission defer the application for 1908 Pacific Ave., pending submittal of [cite additional information needed to review application].*

### Recommended language for denial:

*I move that the Landmarks Preservation Commission deny the application for 1908 Pacific Ave., based on the following [cite design guidelines.]*

<b>AGENDA ITEM 4B:1122 North K Street (North Slope Historic District)</b>
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*Duc Dang, Owner*

## BACKGROUND

Built in 1908, this is a contributing property in the North Slope Historic District. On August 14, 2019, the Commission voted to defer this application until the applicant could provide updated plans for a new railing, which were closer to the original design. In 2019, a Stop Work order was issued for unpermitted railings on the upper decks and front stairs, which were installed in November 2018. It is not known when the original railings were removed. Historic photos showing the original railing were previously provided by former Commissioner McClintock. The applicant is seeking approval to remove the unpermitted railings and replace it with the proposed design. Railings on the upper deck are required; the previous owner had the existing railings installed as a condition of the sale to the current owner.

## ACTION REQUESTED

Approval of the above scope of work.

## STANDARDS

### **North Slope Historic District Design Guidelines for Porches**

#### **Guidelines for Porches**

1. **Retain existing porches and porch details.** The original design elements of existing historic porches, when present, should be maintained. Major changes to configuration or ornamentation should be avoided. Missing or deteriorated details, such as columns and railings, should be repaired or replaced in kind.
2. **Avoid adding architecturally inappropriate details.** Items such as porch columns reflect the architecture of the home. Tapered columns atop piers are emblematic of Craftsman homes, but are not appropriate on Victorian era houses. Likewise, scrollwork, turned posts, or gingerbread are not appropriate on a Craftsman home. Replacement elements that have no historic design relationship with the architecture diminish the historic character of the building.
3. **Replace missing porches with designs and details that reflect the original design, if known.** Avoid adding conjectural elements. Photographic or other documentary evidence should guide the design of replacement porches. Where this is unavailable, a new design should be based on existing original porches from houses of similar type and age.

4. **In certain cases, building code may trump preservation guidelines.** For example, historic railing height may be considered a life safety issue, and new railings are generally required to meet building code. In these cases, innovative approaches may be needed to retain the appropriate scale and appearance.

## ANALYSIS

1. This property is a contributing structure in the North Slope Historic District and, as such, is subject to review by the Landmarks Preservation Commission pursuant to TMC 13.05.047 for exterior modifications.
2. The original porch railings were previously removed on an unknown date.
3. The proposed railings do not match the original design, as shown in the historic photos; however, they are a closer match than the existing railings and similar to those found on other homes in the district.

## RECOMMENDATION

Staff recommends approval of the application.

### Recommended language for approval:

*I move that the Landmarks Preservation Commission approve the application for 1122 North K Street, as submitted.*

### Recommended language for deferral:

*I move that the Landmarks Preservation Commission defer the application for 1122 North K Street, pending submittal of [cite additional information needed to review application].*

### Recommended language for denial:

*I move that the Landmarks Preservation Commission deny the application for 1122 North K Street, based on the following [cite design guidelines.]*

<b>AGENDA ITEM 4C:100 South 9<sup>th</sup> Street, Bowes Building</b>
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*Ricquel Cardoza & Richard Cardoza, LDC, Inc.*

## BACKGROUND

Built in 1909, this is an individual landmark on the Tacoma Register of Historic Places. Verizon Wireless is proposing replacement of six existing antennas and six remote radio units (RRU) and the addition of three 5G panel antennas (mounted at parapet level), two overvoltage protectors (OVP) and two hybrid cables on the rooftop. Compared to the last application, this proposal has eliminated the MIMO technology and CBRS antennas, reducing the total proposed antenna by six. The amount of steel framing has also been reduced.

On April, 24, 2019, the Landmarks Preservation deferred this item until the feasibility of lowering and moving the antenna to reduce visibility could be studied. The Commission also commented continuous changes to the site were not desirable. In order to prevent future additions of equipment, the application was revised to include additional antenna.

On August 14, 2019, The Commission voted to deny the application; due to the increased visual impact on the building. The applicant appealed and the Hearing Examiner upheld the Commission's decision and remanded the application to the Commission pending the submittal of revised plans that reduce the visual impact of the proposal. The applicant has submitted new images showing the reduced visual impact compared to the original submittal.

## ACTION REQUESTED

Approval of the above scope of work.

## STANDARDS

### **Secretary of the Interior's Standards for the Rehabilitation of Historic Buildings**

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.



9. New additions, exterior alterations or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. 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.

## **ANALYSIS**

1. This property is an individual landmark on the Tacoma Register of Historic Places, as such, it is subject to review by the Landmarks Preservation Commission pursuant to TMC 13.05.047 modifications.
2. No character defining features are being altered; However, the new equipment is visible from the street level, at a distance.
3. No historic material is being destroyed or removed.
4. The equipment could be removed without harming the building or its character defining features.
5. The current proposal reduces the visual impact of the overall antenna, as requested by the Commission.

## **RECOMMENDATION**

Staff recommends approval of the application.

### Recommended language for approval:

*I move that the Landmarks Preservation Commission approve the application for 100 South 9<sup>th</sup> Street, as submitted.*

### Recommended language for deferral:

*I move that the Landmarks Preservation Commission defer the application for 100 South 9<sup>th</sup> Street, pending submittal of [cite additional information needed to review application].*

### Recommended language for denial:

*I move that the Landmarks Preservation Commission deny the application for 100 South 9<sup>th</sup> Street, based on the following [cite design guidelines.]*

<b>AGENDA ITEM 4D: 603 N. Ainsworth Ave. (North Slope Historic District)</b>
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*Dawn Fast, R4 Construction*

## **BACKGROUND**

Built in 1904, this is a contributing property in the North Slope Historic District. The applicant is proposing to demolish the existing deteriorated garage and replace it with a new 650 SF garage. The garage will have cedar siding and trim with single-hung vinyl windows that face the backyard. The man door would be vertical grain fir. The garage roof ridge would be 17'-7.5" high with an 8/12 roof pitch. No work is being done to the main house.

## **ACTION REQUESTED**

Approval of the above scope of work.

## **STANDARDS**

### **Design Guidelines for the North Slope Special Review District: Garages & Parking and New Construction**

1. **Alley accessed parking is the typical and predominant residential parking configuration in the district.** Residential driveways and garages facing the street are typically only appropriate when there is no alley access, or other site constraints prevent alley accessed parking (such as a corner lot).

2. **Minimize views of parking and garages from the public right-of-way.** Parking areas and garages should be set toward the rear of the lot to minimize visibility from primary rights of way. Parking lots and banks of garage doors along the front facade of a building do not conform to the character of the neighborhood. Where it is not possible to locate a parking structure to conceal it from view, it should be set well back from the front plane of the primary structure on the property. Off-street parking lots have no historic precedent in the residential areas of the neighborhoods and should be located behind the building and away from the street.
3. **Goal:** Balance the overall height of new construction with that of nearby structures. **Guideline:** New buildings should be comparable in height to adjacent structures. Buildings that are substantially taller or shorter than the adjacent historic buildings should be avoided.

4. **Goal:** Relate the size and proportions of new buildings and their architectural elements to those of the neighborhood.

**Guideline:** Building facades should be of a scale compatible with surrounding buildings and maintain a comparable setback from the property line to adjacent buildings, as permitted by applicable zoning regulations.

5. **Goal:** Break up the facades of buildings into smaller varied masses comparable to those contributing buildings in the residential historic districts. **Guideline:** Variety of forms is a distinguishing characteristic of the North Slope and Wedge residential communities. Smaller massing—the arrangement of facade details, such as projections and recesses—and porches all help to articulate the exterior of the structure and help the structure fit into the neighborhood. Avoid large, blank planar surfaces.
6. **Goal:** Emphasize entrances to structures. **Guideline:** Entrances should be located on the front facade of the building and highlighted with architectural details, such as raised platforms, porches, or porticos to draw attention to the entry. Entrances not located on the front facade should be easily recognizable from the street.
7. **Goal:** Utilize traditional roof shapes, pitches, and compatible finish materials on all new structures, porches, additions, and detached outbuildings wherever such elements are visible from the street. Maintain the present roof pitches of existing contributing buildings where such elements are visible from the street.

**Guideline:**

1. **Shape and Pitch:** Typically, the existing historic buildings in the districts either have gable roofs with the slopes of the roofs between 5:12 to 12:12 or more and with the pitch oriented either parallel to or perpendicular to the public right-of-way or have hipped roofs with roof slopes somewhat lower.
  2. **Architectural Elements:** Most roofs also have architectural details, such as cross gables, dormers, and/or “widow’s walks” to break up the large sloped planes of the roof. Wide roof overhangs, decorative eaves or brackets, and cornices can be creatively used to enhance the appearance of the roof.
  3. **Materials:** Roofs that are shingle or appear to be shingle, or composition roofs, are the typical historic material compatible with the district. Seam metal may be an acceptable material for simple roof structures. Slate, faux slate and terra cotta tiles are not appropriate for the districts.
8. **Goals:** Use compatible materials that respect the visual appearance of the surrounding buildings. Buildings in the North Slope and Wedge Neighborhoods were sided with shingles or with lapped, horizontal wood siding of various widths. Subsequently, a few compatible brick or stucco- covered structures were constructed, although many later uses of these two materials do not fit the character of the neighborhood.

**Guideline:**

1. New structures should utilize exterior materials similar in type, pattern, configuration and appearance to those typically found in the neighborhood.
2. Stucco, especially commercial EIFS systems like Dryvit, is not acceptable for the historic district.
3. Faux materials, such as vinyl or metal siding, are not acceptable for the historic district.

4. Certain siding patterns, including board and batten and panel, are not historically common in the district and should not be used.
  5. Cementitious products, such as Hardiplank, may be acceptable in the district if installed in a historically correct pattern (for example, horizontal lapped siding or shingle). In such cases, the product used shall be smooth in texture (faux wood grain finish is NOT acceptable).
  6. Engineered products for trim and molding, if demonstrated to be similar in appearance to painted wood, may be an environmentally responsible substitute for wood on new structures. In such cases, the applicant should demonstrate to the Commission, via product literature and material samples, that the product is compatible.
9. **Goals:** Respect the patterns and orientations of door and window openings, as represented in the neighboring buildings. Window and door proportions (including the design of sash and frames), floor heights, floor shapes, roof shapes and pitches, and other elements of the building exterior should relate to the scale of the neighborhood.

**Guideline:**

1. Placement. Typically, older buildings have doors and transoms that matched the head height of the adjacent windows. New structures should utilize this pattern.
2. Doors. Doors should be or appear to be paneled and/or contain glazed openings.
3. Windows. New structures should utilize existing historic window patterns in their design. Windows should be vertically oriented. Large horizontal expanses of glass may be created by ganging two or more windows into a series. Historically, the typical window in the district was a double hung sash window. Casement windows were commonly used for closets, nooks, and less commonly, as a principal window type in a structure. Many double hung sash windows had the upper sash articulated into smaller panels, either with muntin bars, leaded glazing, or arches. Commonly, windows were also surrounded with substantial trim pieces or window head trim.

**ANALYSIS**

1. This property is a contributing structure in the North Slope Historic District and, as such, is subject to review by the Landmarks Preservation Commission pursuant to TMC 13.05.047 for exterior modifications.
2. The garage is alley-accessed and sited towards the rear of the lot.
3. The garage will be minimally visible from the right of way.
4. The garage height and size is compatible with the district and the existing house.
5. The garage design is compatible with the district and comparable to neighboring garages.
6. The guidelines for garages do not address materials. Vinyl windows have been approved for garages.

**RECOMMENDATION**

Staff recommends approval of the application.

Recommended language for approval:

*I move that the Landmarks Preservation Commission approve the application for 603 N. Ainsworth Ave., as submitted.*

Recommended language for deferral:

*I move that the Landmarks Preservation Commission defer the application for 603 N. Ainsworth Ave., pending submittal of [cite additional information needed to review application].*

Recommended language for denial:

*I move that the Landmarks Preservation Commission deny the application for 603 N. Ainsworth Ave., based on the following [cite design guidelines.]*

## AGENDA ITEM 4E: Seymour Conservatory (Individual Landmark)

*Sean Kelly, SHKS Architects*

### **BACKGROUND**

Built in 1907, the Seymour Conservatory, in Wright Park, is an individually listed landmark on the Tacoma Register of Historic Places. Metro Parks is planning to expand the Conservatory to accommodate its programming. The Landmarks Preservation Commission has conducted several briefings and site visits for this expansion. In 2019, a small addition was approved and added for restrooms and storage.

The project team is now seeking approval for the rehabilitation, including structural upgrades, historic facade reconstructions, exterior envelope repairs, interior renovation of gift shop and office, mechanical system replacements, electrical and plumbing upgrades, limited site work, and accessible parking with a pathway. Restoration work will include replicating the original entrance facades, which were lost in the 1930s, as well as repainting/repairing the existing steel and glass frame. Non-original windows will be repaired and replaced. This is a Washington State Heritage Capital Grant funded project, and thus must be approved by the Washington State Department of Archaeology and Historic Preservation.

### **ACTION REQUESTED**

Approval of the above scope of work.

### **STANDARDS**

#### **Secretary of the Interior's Standards for the Rehabilitation of Historic Buildings**

1. A property shall be used for its historic purpose or be placed in a new use that requires minimal change to the defining characteristics of the building and its site and environment.
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.
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.
9. New additions, exterior alterations or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.
10. 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.

### **ANALYSIS**

1. This property is an individual landmark on the Tacoma Register of Historic Places, as such, it is subject to review by the Landmarks Preservation Commission pursuant to TMC 13.05.047 modifications.
2. The property will be rehabilitated and restored in order to continue to serve its historic purpose.
3. The historic character of the property is being retained. Existing historic materials are being repaired and/or replaced in-kind. Missing historic features are being replicated using historic photographs.
4. New work is compatible with the historic material and does not damage character-defining features.

**RECOMMENDATION**

Staff recommends approval of the application.

Recommended language for approval:

*I move that the Landmarks Preservation Commission approve the application for the Seymour Conservatory, as submitted.*

Recommended language for deferral:

*I move that the Landmarks Preservation Commission defer the application for the Seymour Conservatory, pending submittal of [cite additional information needed to review application].*

Recommended language for denial:

*I move that the Landmarks Preservation Commission deny the application for the Seymour Conservatory, based on the following [cite design guidelines.]*

**PRESERVATION PLANNING/BOARD BUSINESS**

**AGENDA ITEM 5A: Amendments to Guidelines, Bylaws, and Inventory**

Staff

**BACKGROUND**

Once annually, the Commission may review and amend Commission bylaws and district guidelines and inventories. This item was held over from December due to meeting cancellation. On January 8<sup>th</sup>, the Commission provided recommendations regarding the draft language, which staff has incorporated into the draft documents.

The proposed changes include the following:

Commission Bylaws

No proposed changes.

Building Inventories

No proposed changes.

North Slope and Wedge Neighborhood Historic District Design Guidelines

Changes following 1/8/19 Landmarks meeting are in [BLUE](#)

Section and page	Subject	Proposed language changes
Roofs and Roof Shapes (p. 17)	Solar panels	New language under Rooftop Additions: <u>Roof mounted solar equipment should be located in a manner that reduces its visual impact to the extent possible-practicable. Solar installations should not obscure character-defining architectural features, and installations on the primary facade are discouraged. To be appropriate for the historic district, solar installations should balance performance with architectural compatibility.</u>
Garages and Parking (p. 20)	Accessory Structures and Detached Accessory Dwelling Units*	Change title of Section to read: <u>Accessory Structures</u> , Garages and Parking  Item 2, "Minimize Views" add the following: <u>New accessory structures should be clearly subservient to the primary structure on the lot.</u>  New Item 5, to read: 5. <u>New accessory structures and garages should utilize a similar material palette and configuration to historic accessory or to the primary structures on the lot. New accessory structures should meet the guidelines for new</u>

		<p><u>construction exterior materials, windows and roof form and shape. Garages and accessory structures should orient vehicle doors to the alley when possible and maintain a simple roof plan with a single ridge line.</u></p> <p>New Item 6, to read:          6. <u>Conversion of accessory structures. Accessory structures built during the district period of significance that are converted to residential use should retain the exterior visual characteristics of the accessory structure, including door and window configuration, cladding materials, and form. Added features, such as porches, exterior staircases, and new window or door openings, should be located to be minimally visible from public rights of way.</u></p>
<p>Guidelines for New Construction (p. 25)</p>	<p>Windows</p>	<p>Item 3, to read:          3. Window <u>configuration and detail</u>. New structures should utilize existing historic window patterns in their design. Windows should be vertically oriented. Large horizontal expanses of glass may be created by ganging two or more windows into a series. Historically, the typical window in the district was a double hung sash window. Casement windows were commonly used for closets, nooks, and less commonly, as a principal window type in a structure. Many double hung sash windows had the upper sash articulated into smaller panels, either with muntin bars, leaded glazing, or arches. Muntins and grids should be true or simulated divided light. Grids sandwiched between thermal panes are not acceptable. Commonly, windows were also surrounded with substantial trim pieces or window head trim, <u>and new window trim should utilize historic detail patterns. These may include crown molding, except where headers are engaged with a belly band or cornice, substantial projecting sills with aprons, and windows that are recessed or "punched in" so that the window sash and frame does not project beyond the wall plane. Design submittals for new structures shall include window trim details.</u></p> <p>Item 4, to read:          4. <u>Window materials</u>. Historically, windows were generally wood. New construction should use windows that are wood, or that mimic the appearance of wood (including clad or composite materials). Vinyl windows are generally not acceptable for new primary <u>or detached accessory dwelling unit</u> structures in the historic district.</p>

*\*Note that the following zoning currently applies to DADUs:*

1. Cannot be taller than the primary structure, and can be a maximum of 18' tall for standalone DADU structures, 20' tall if over a garage, and 15' tall in VSD zones.
2. Size of DADUs is limited to:
  - No more than 15% of the lot area.
  - No more than 85% of the living area of the primary structure or dwelling.
  - No more than 1,000 square feet.

**ACTION REQUESTED**

- Set a public hearing date for February 26th.

**AGENDA ITEM 5B: Events & Activities Update**

Staff

**2020 Events**

1. Heritage League Annual Meeting (9am @WSHM, February 1<sup>st</sup>)

2. Trivia Night (6pm @ The Swiss, March 18<sup>th</sup>)
3. Sacred Spaces Tour TBD
4. Historic Preservation Month, May
  - I. THS Historic Homes Tour, May 2<sup>nd</sup>- 3<sup>rd</sup>
  - II. Proclamation and Wright Park Tour, May 5<sup>th</sup>
  - III. Fort Nisqually Escape Rooms, May 7<sup>th</sup>-9<sup>th</sup>
  - IV. Heritage Gardens, May 9<sup>th</sup>
  - V. THS History of Old City Hall (7pm @ UPS Wheelock Student Center, May 11<sup>th</sup>)
  - VI. Wapato Park Bike Ride, May 16<sup>th</sup>
  - VII. Fort Nisqually Queen Victoria's Birthday, May 16<sup>th</sup>
  - VIII. Historic Preservation Awards ( 6pm @ Point Defiance Pagoda, May 28<sup>th</sup>)
  - IX. Boat Tour TBD
5. Trivia Night (6pm @ The Swiss, June 17th)
6. Fern Hill Tour TBD
7. Forum 2020: Preservation Coast to Coast (July 22-26<sup>th</sup>)
8. Salmon Beach Tour TBD
9. Trivia Night (6pm @ The Swiss, September 16th)
10. Fall Heritage Café Lecture Series: Broadening Horizons in Historic Preservation
11. November Swing Dance TBD





# Landmarks Preservation Commission

Planning and Development Services Department



747 Market Street | Room 345 | Tacoma WA 98402-3793 | 253.591.5220

## APPLICATION FOR DESIGN REVIEW

Permit Number: HDR20-0003

### PROPERTY INFORMATION

<b>Building/Property Name:</b>	Walsh Gardner Temporary Mural
<b>Building/Property Address:</b>	1908 PACIFIC AVE
<b>Historic/Conservation District:</b>	Union Depot/Warehouse
<b>Applicant's Name:</b>	
<b>Applicant's Address:</b>	,
<b>Applicant's Phone:</b>	
<b>Applicant's Email:</b>	
<b>Property Owner's Name:</b>	BOARD OF REGENTS OF THE UNIV OF WA
<b>Property Owner's Address:</b>	

### PROJECT SCOPE AND DESCRIPTION

#### Project Details

<b>Application Type:</b>	Commercial
<b>Type of Work:</b>	Other Minor Work
<b>Estimated Valuation:</b>	2000

#### Application Checklist

**Features to be Modified:**  
12' x 12' mural

**Program of Work:**

n/a

**Specifications of Materials and Finishes:**

Vinyl wrap product rated for exterior use

**Building/Roofing Information**

Roof Height:

Roof Pitch:

Roof Material:

Size of Construction:

Proposed Material:

Exterior Material:

**Window Information**

Window Types:

Window Trim:

Window Material:

Window Locations:

**Door Information**

Door Types:

Door Materials:

Door Locations:

**Sign/Awning Information**

**Existing Signage:**

**Sign Dimensions:**

**Sign Material:**

**Logo and Letter Size:**

**Lighting Specifications:**

**Removing or Relocating Signage:**

**Method of Attachment:**



LIVE LIKE  
SOUTH SOUND PROUD  
TØQ W/ UBØ? IS OUT

Man in a blue and white striped shirt and red cap standing on the sidewalk.

Walsh Gardner Building  
1908-1910 Pacific Avenue  
Current Condition



Walsh Gardner Building  
1908-1910 Pacific Avenue  
Proposed Use







**GENERAL NOTES:**

**CODES:**  
 DESIGN IS IN ACCORDANCE WITH THE 2015 INTERNATIONAL RESIDENTIAL CODE (IRC) AS AMENDED BY THE LOCAL BUILDING DEPARTMENT.

**HANDRAILS:**  
 ALL HANDRAILS SHALL BE 1 1/4" OR MORE WIDERS SHALL HAVE AT LEAST ONE HANDRAIL. EACH HANDRAIL SHALL BE PLACED NOT LESS THAN 3" AND NOT MORE THAN 4" FROM THE FACE OF THE WALKWAY. THE TOP RAIL SHALL BE CONTINUOUS FROM THE END OF THE WALKWAY TO THE NEXT POINT OF CONNECTION. THE TOP RAIL TO A POINT DIRECTLY ABOVE THE LOWEST WALKWAY HANDRAIL SHALL BE CONTINUOUS FROM THE END OF THE WALKWAY TO THE NEXT POINT OF CONNECTION. THE TOP RAIL SHALL HAVE A SPACING NOT LESS THAN 17" BETWEEN THE WALL AND GUARDRAIL.

**SECTION RAIL TABLE RAILS:** SHALL BE PROVIDED FOR PORCHES, DECKS, PATIOS, AND BALCONIES. THE RAIL SHALL BE 36" HIGH FROM THE FINISH GRADE OR AT LEAST 30" BELOW GRADE SHALL BE SECURED 3" FROM THE WALL. THE RAIL SHALL BE 1 1/2" IN DIAMETER AND SHALL BE SECURED TO THE WALL WITH AN ANCHOR BOLT. THE ANCHOR BOLT SHALL BE 1/2" IN DIAMETER AND SHALL BE 6" LONG. THE ANCHOR BOLT SHALL BE PLACED AT THE LEADING EDGE OF A TREAD.

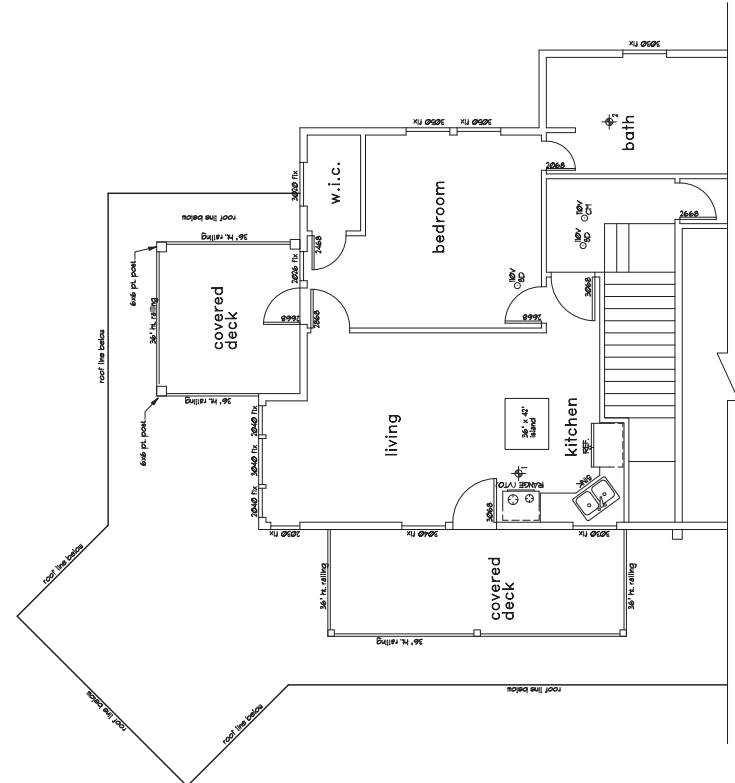
**RECOMMENDATION:**  
 REMOVE THE CURRENT HANDRAIL TO INSTALL A NEW HANDRAIL. THE DECK CAN ONLY BE MAINTAINED ON THE TOP OF EXISTING LOWER LEVEL. THE DECK SHALL BE REPLACED WITH ONE OR ALL PORTIONS OF THE EXISTING AND PROPOSED DIMENSIONS SHOULD BE LIMITED AS ORIGINAL DIMENSIONS IN VERTICAL & HORIZONTAL MEASUREMENTS. ANY ALTERATION OF THE DECK THAT INCREASES DIMENSION MUST BE APPROVED BY THE LOCAL BUILDING DEPARTMENT BEYOND THE EXISTING DESIGN AS HISTORIC AREA.

**PLAN KEY**

- NEW CONSTRUCTION
- EXISTING TO REMAIN
- EXISTING WALLS TO BE REMOVED AND OR MODIFIED
- NEW DOOR
- EXISTING DOOR
- EXISTING DOOR TO BE REMOVED AND OR MODIFIED

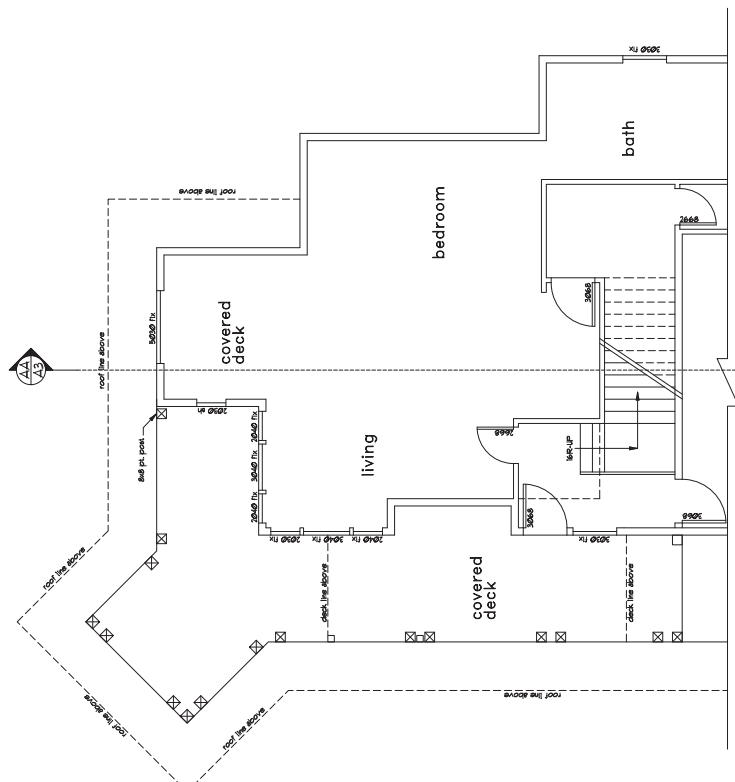
**NOTE:**  
 CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REMOVE ANY OBSTRUCTIONS TO CONSTRUCTION. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR DISCREPANT CONDITIONS UNLESS INDICATED OTHERWISE ON DRAWINGS BY THE CONTRACTOR.

\* NO FIELD ALTERATIONS WILL BE AUTHORIZED UNLESS ACCOMPANIED BY REVISED DRAWINGS.



EXISTING UPPER FLOOR PLAN

SCALE: 1/4" = 1'-0"



EXISTING MAIN FLOOR PLAN

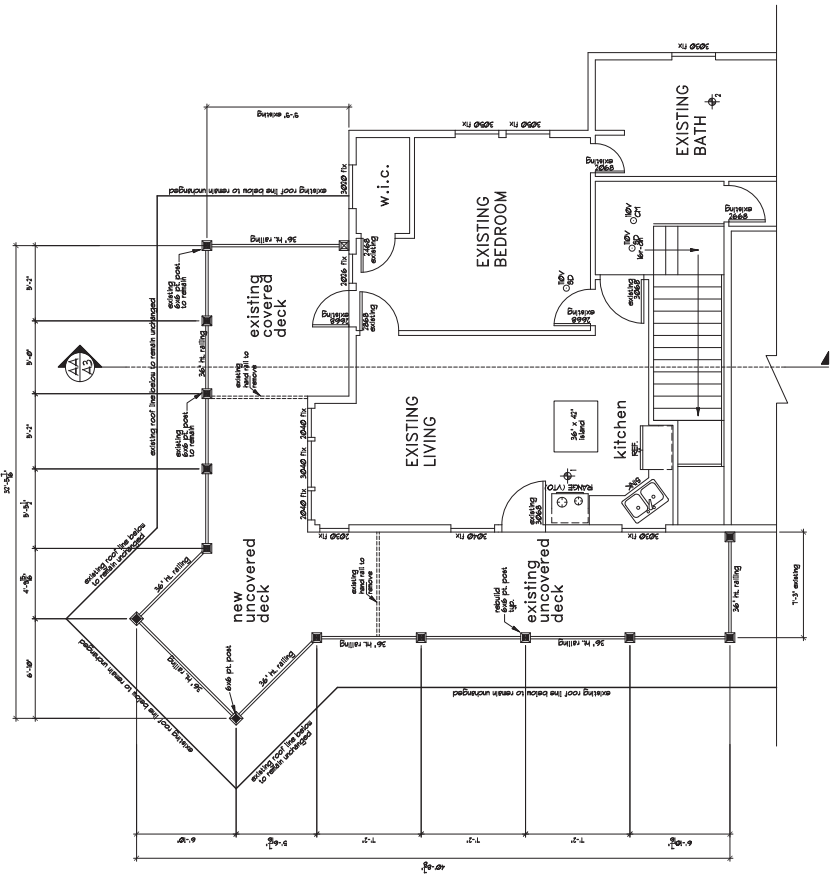
SCALE: 1/4" = 1'-0"



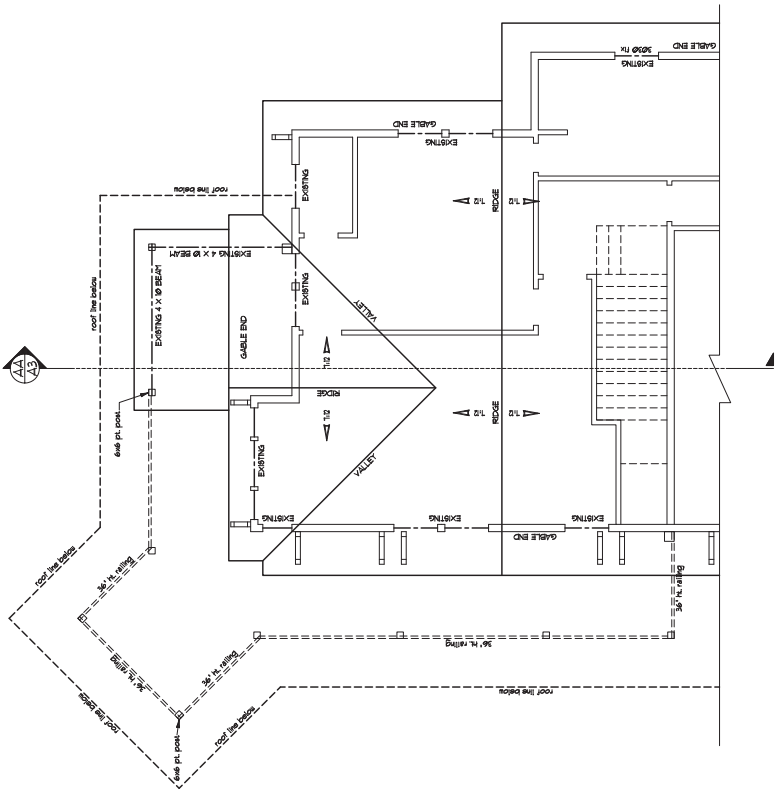
DATE	REVISION	REV. BY:	PREPARED BY:	<p><b>T &amp; J HOME DESIGN</b>                  ARCHITECTURAL-ENGINEERING-DESIGN                  1313 E. 61st ST.                  TACOMA, WA 98404                  PHONE: 253-441-1651                  Email: truewea@yahoo.com</p>	<p><b>DUC DANG RESIDENCE</b>                  REBUID HISTORIC HANDRAIL                  1122 North K ST. TACOMA, WA 98403</p>	BY: T.J.N. DATE: 12-20-19 CHECKED: TN PROJECT # <b>A1 3</b> <b>TL19-32</b>
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NORTH



PROPOSED UPPER FLOOR PLAN  
SCALE: 1/4" = 1'-0"



EXISTING ROOF FRAMING PLAN  
SCALE: 1/4" = 1'-0"

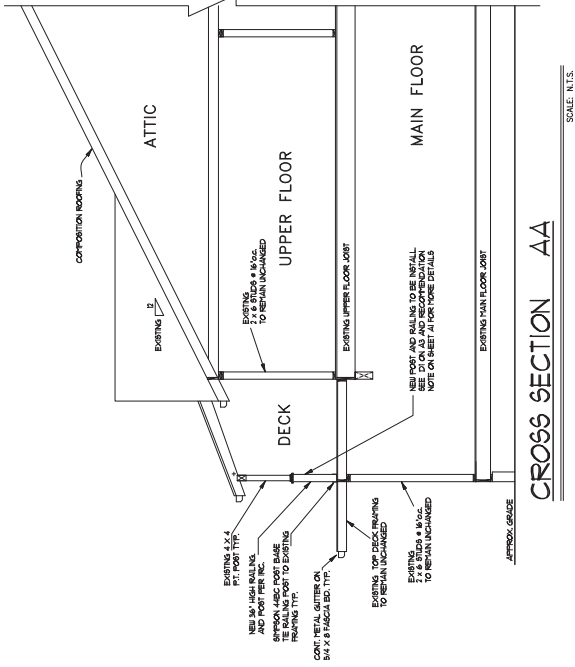
PLAN KEY	
	NEW CONSTRUCTION
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED AND OR MODIFIED
	NEW DOOR
	EXISTING DOOR
	EXISTING DOOR TO BE REMOVED AND OR MODIFIED

NOTE: CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF PROJECT AND REMOVE ANY OBSTRUCTIONS TO ACCOMMODATE ALL CHANGES TO CONSTRUCTION WORK. CONTRACTOR SHALL NOT BE RESPONSIBLE FOR DISCREPANCY CONDITIONS UNLESS SPECIFICALLY NOTED OTHERWISE BY THE CONTRACTOR.

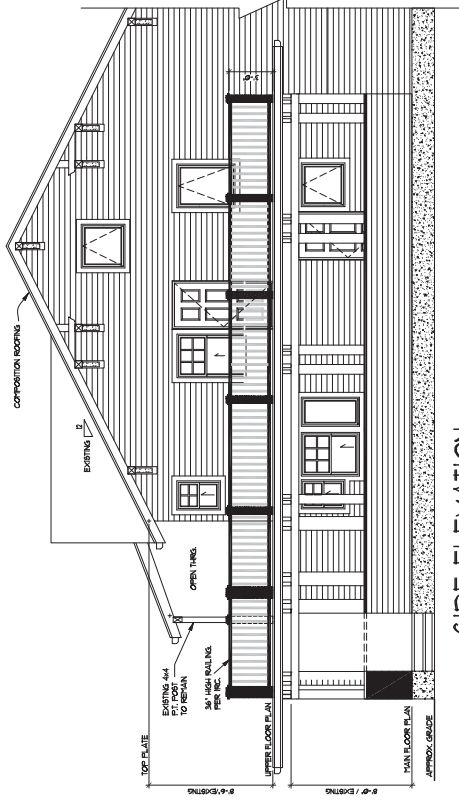
\* NO FIELD ALTERATIONS WILL BE AUTHORIZED UNLESS ACCOMPANIED BY REVISED DRAWINGS.

DATE	REVISION	REV. BY:	PREPARED BY:
			<b>T &amp; J HOME DESIGN</b>
			ARCHITECTURAL - ENGINEERING - DESIGN
			1313 E. 61st ST. PHONE: 253-441-1651
			TACOMA, WA 98404 Email: trtruew@yahoo.com
			PREPARED FOR:
			<b>DUC DANG RESIDENCE</b>
			<b>REBUID HISTORIC HANDRAIL</b>
			1122 North K ST. TACOMA, WA 98403
BY:	T.N.	DATE:	12-20-19
CHECKED:	TN	PROJECT #	<b>TL19-32</b>
SHEET #	<b>A2</b>		

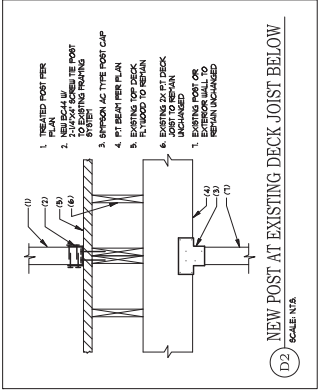
PATENT OF IDEA FEE IS DUE TO T.J. HOME DESIGN PRIOR TO CONSTRUCTION FOR EACH PROJECT. THIS DRAWING AND ALL OTHER DRAWINGS ARE CONTRACTED IN ACCORDANCE WITH FEDERAL STATUTES REPRODUCTION BY ANY MEANS WITHOUT WRITTEN PERMISSION IS STRICTLY PROHIBITED. THESE DRAWINGS AND ALL SPECIFICATIONS HEREAFTER PREPARED ARE AND SHALL REMAIN THE PROPERTY OF T.J. HOME DESIGN.



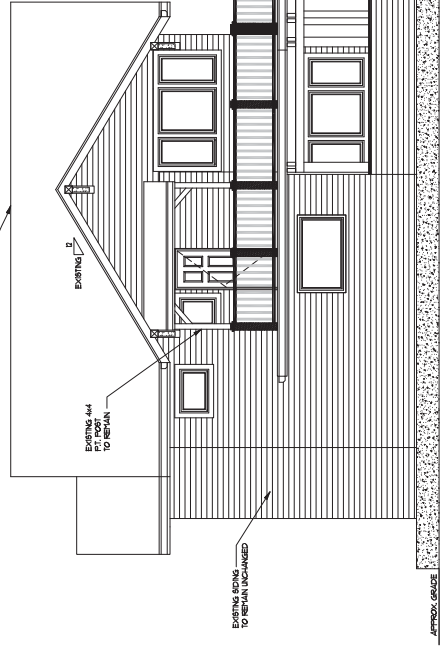
**CROSS SECTION AA**  
SCALE: N.T.S.



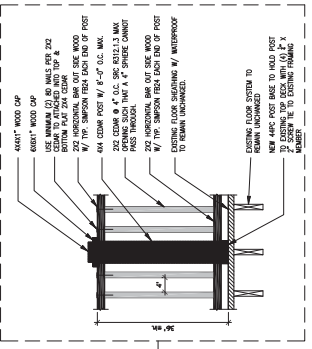
**SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



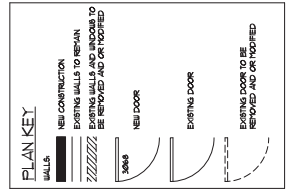
**D2 NEW POST AT EXISTING DECK JOIST BELOW**  
SCALE: N.T.S.



**FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"



**D1 DECK GUARD RAILS DETAIL**  
SCALE: N.T.S.



**NOTE:**  
CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND INSURANCE.

**\* NO FIELD ALTERATIONS WILL BE AUTHORIZED UNLESS ACCOMPANIED BY REVISED DRAWINGS.**

DATE	REVISION	REV. BY:	BY: T.N.	DATE: 12-20-19	CHECKED: TN	PROJECT #
						<b>A3</b>
						<b>3</b>
						<b>TL19-32</b>
<p><b>T &amp; J HOME DESIGN</b> ARCHITECTURAL-ENGINEERING-DESIGN 1313 E. 61st ST. TACOMA, WA 98404 PHONE: 253-441-1651 Email: truewea@yahoo.com</p>			<p><b>DUC DANG RESIDENCE</b> <b>REBUID HISTORIC HANDRAIL</b> 1122 North K ST. TACOMA, WA 98403</p>			

# Landmarks Preservation Commission

Planning and Development Services Department



747 Market Street | Room 345 | Tacoma WA 98402-3793 | 253.591.5220

## APPLICATION FOR DESIGN REVIEW

Permit Number: HDR19-0014

### PROPERTY INFORMATION

Building/Property Name:	Dang
Building/Property Address:	1122 N K ST
Historic/Conservation District:	North Slope
Applicant's Name:	Duc Dang
Applicant's Address:	1122 N K Street Tacoma, WA 98403
Applicant's Phone:	4252753519
Applicant's Email:	ductandang@yahoo.com
Property Owner's Name:	DANG DUC TAN & HUYNH LAURIE T
Property Owner's Address:	

### PROJECT SCOPE AND DESCRIPTION

#### Project Details

Application Type:	Commercial
Type of Work:	Other Minor Work
Estimated Valuation:	4500.00

#### Application Checklist

Features to be Modified:	Railings
--------------------------	----------

**Program of Work:**

**Specifications of Materials and Finishes:**

wood

## Building/Roofing Information

Roof Height:

Roof Pitch:

Roof Material:

Size of Construction:

Proposed Material:

Exterior Material:

## Window Information

Window Types:

Window Trim:

Window Material:

Window Locations:

## Door Information

Door Types:

Door Materials:

Door Locations:

**Sign/Awning Information**

**Existing Signage:**

**Sign Dimensions:**

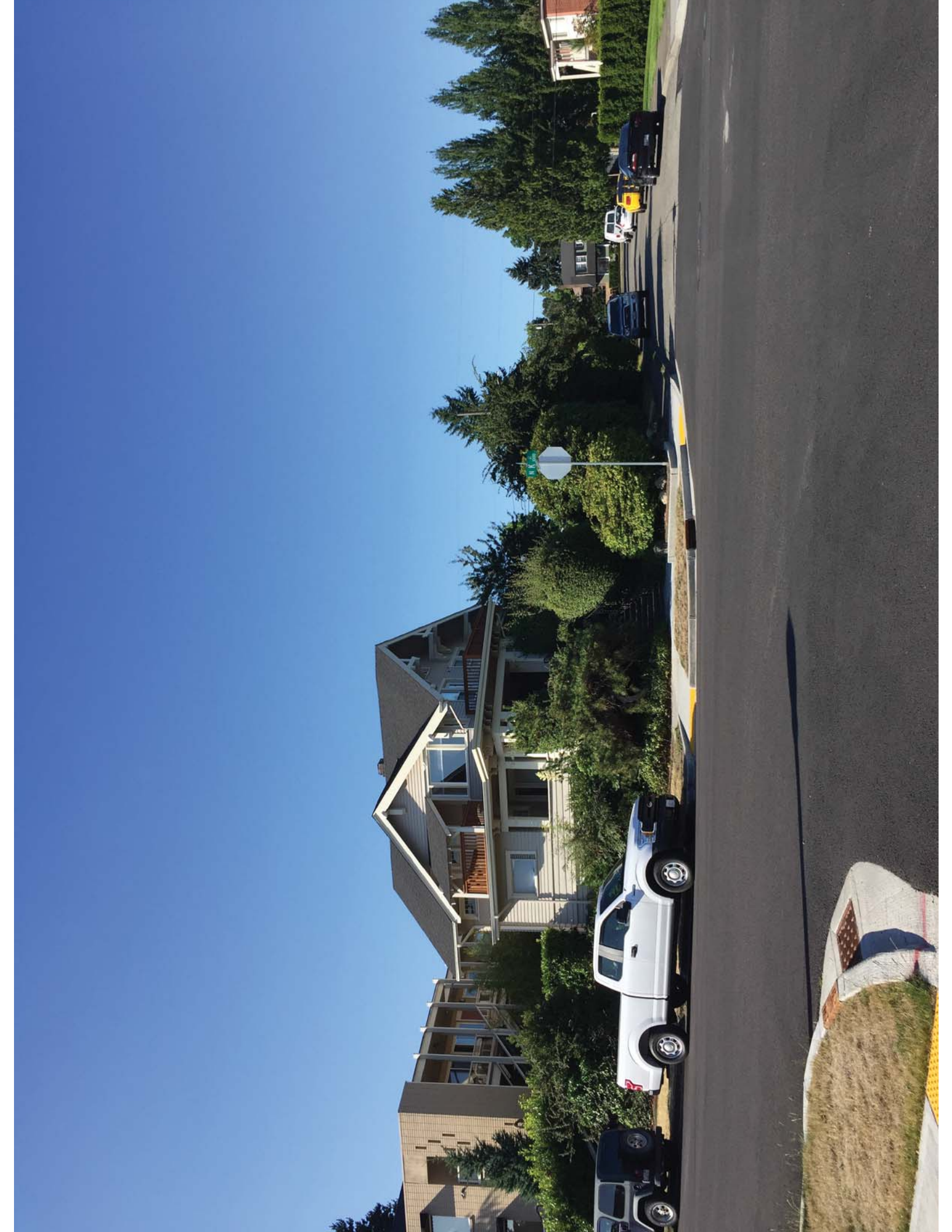
**Sign Material:**

**Logo and Letter Size:**

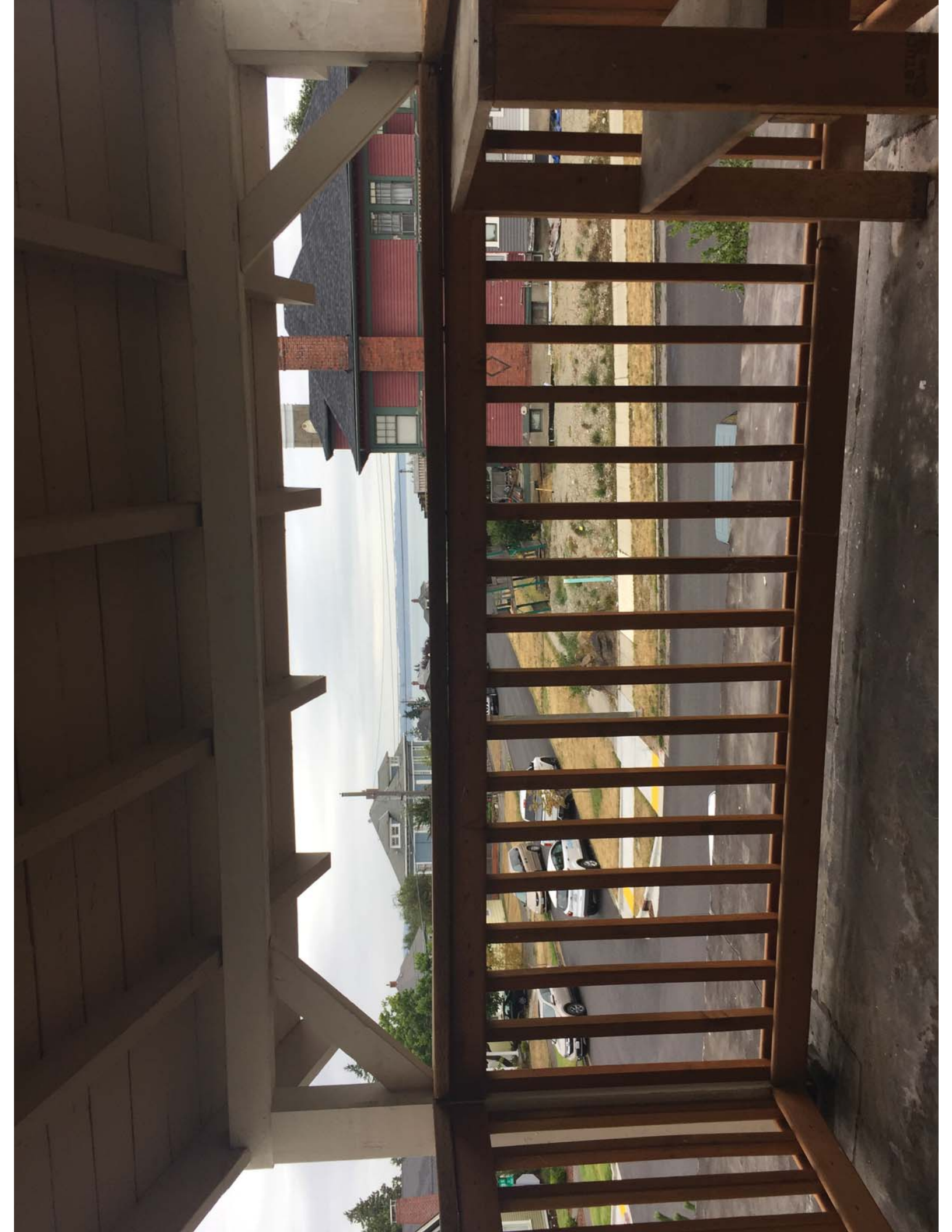
**Lighting Specifications:**

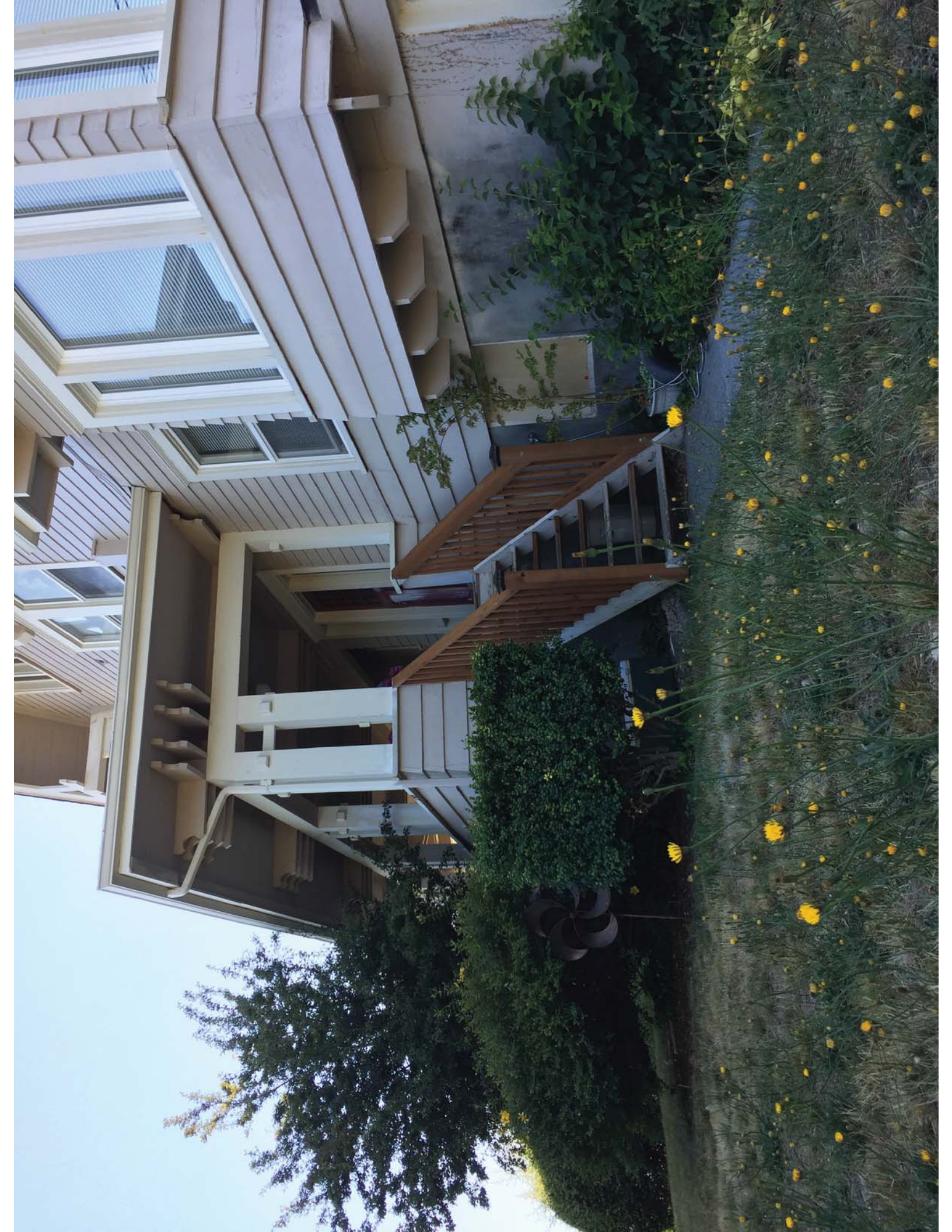
**Removing or Relocating Signage:**

**Method of Attachment:**



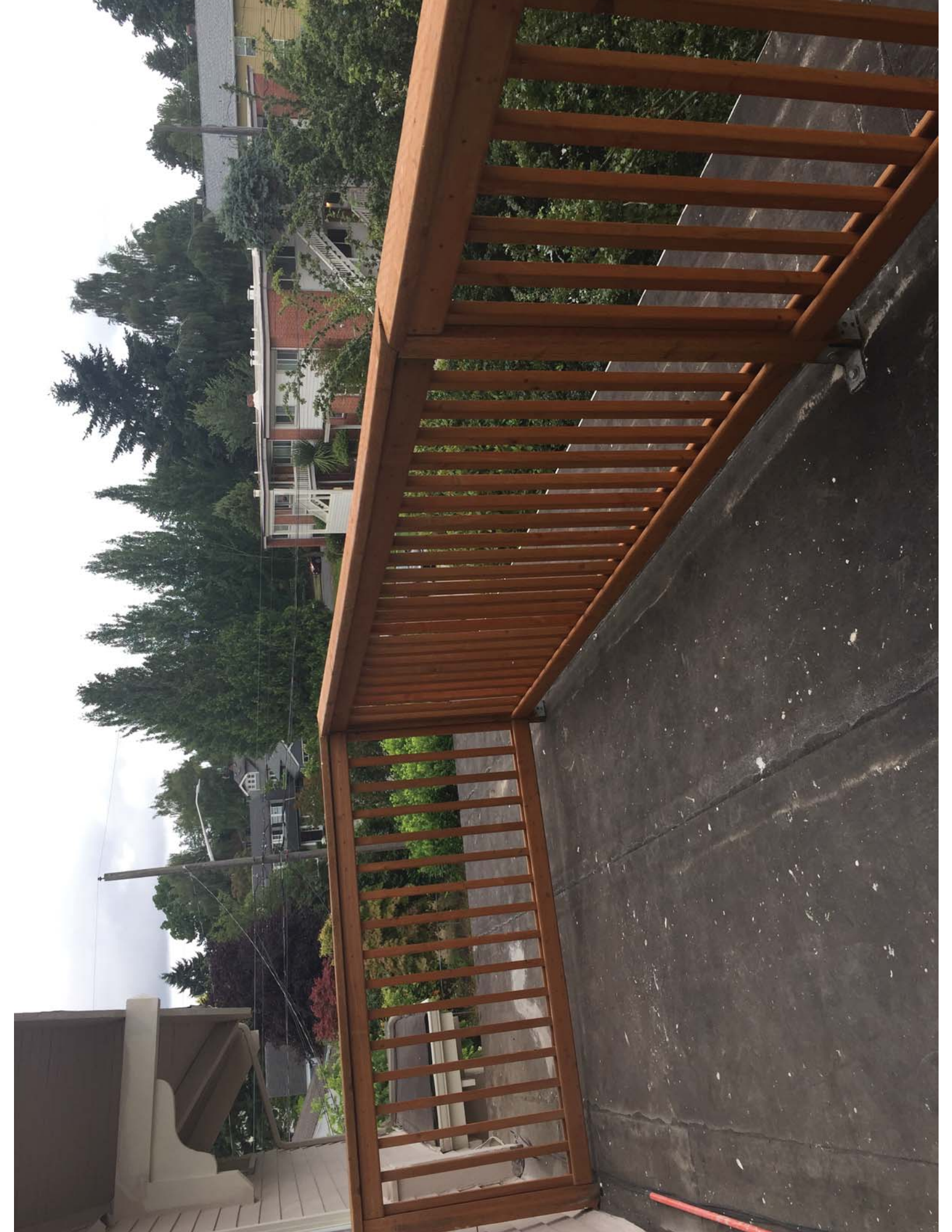


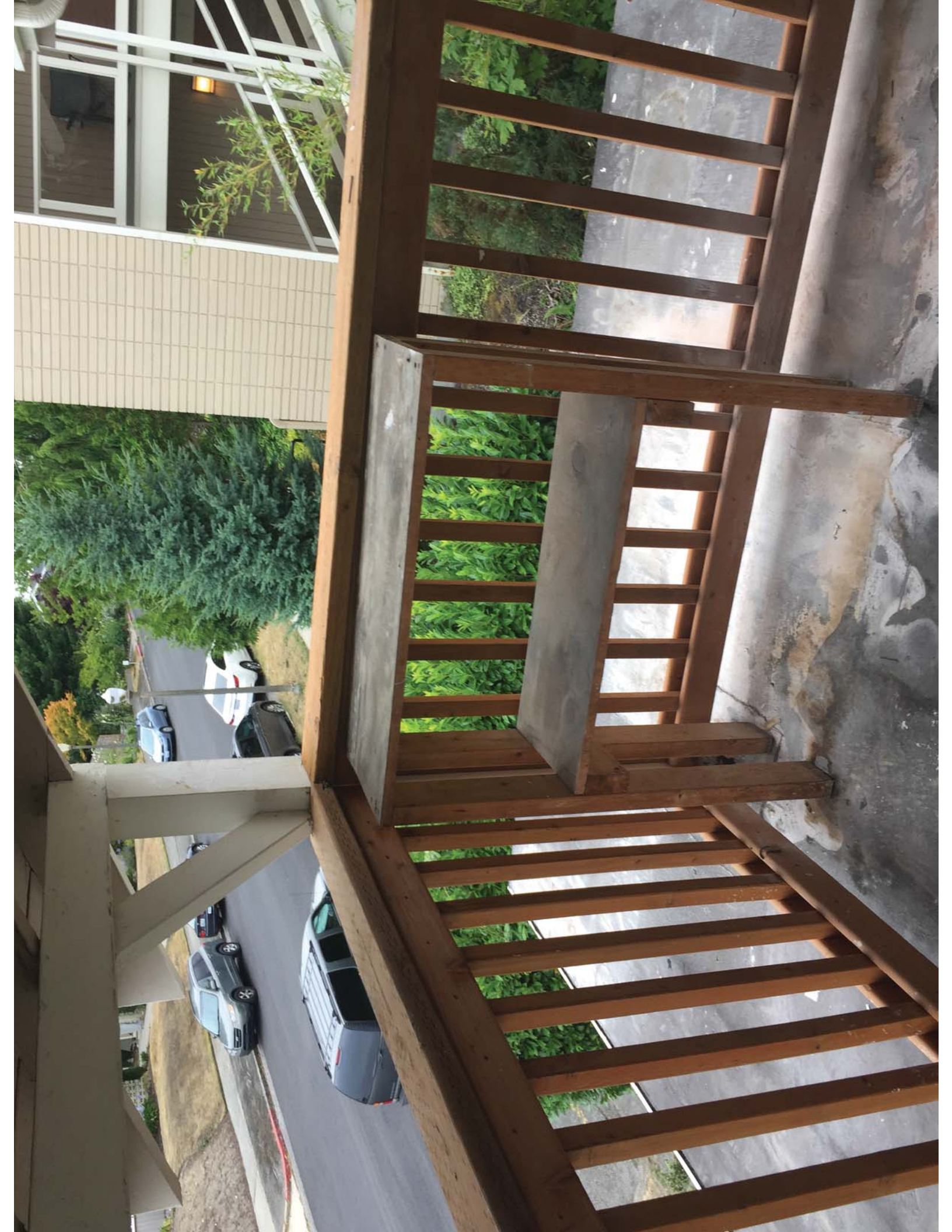


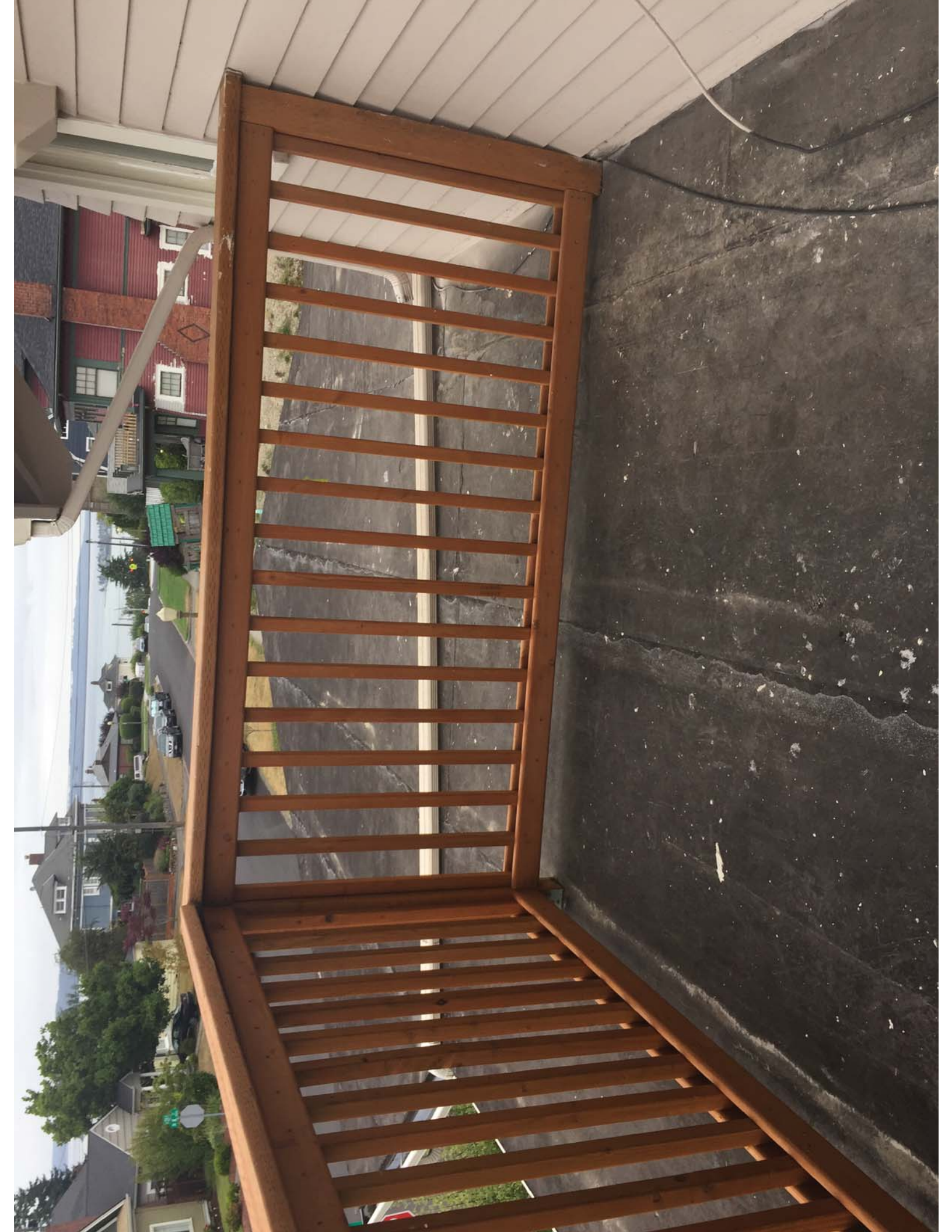






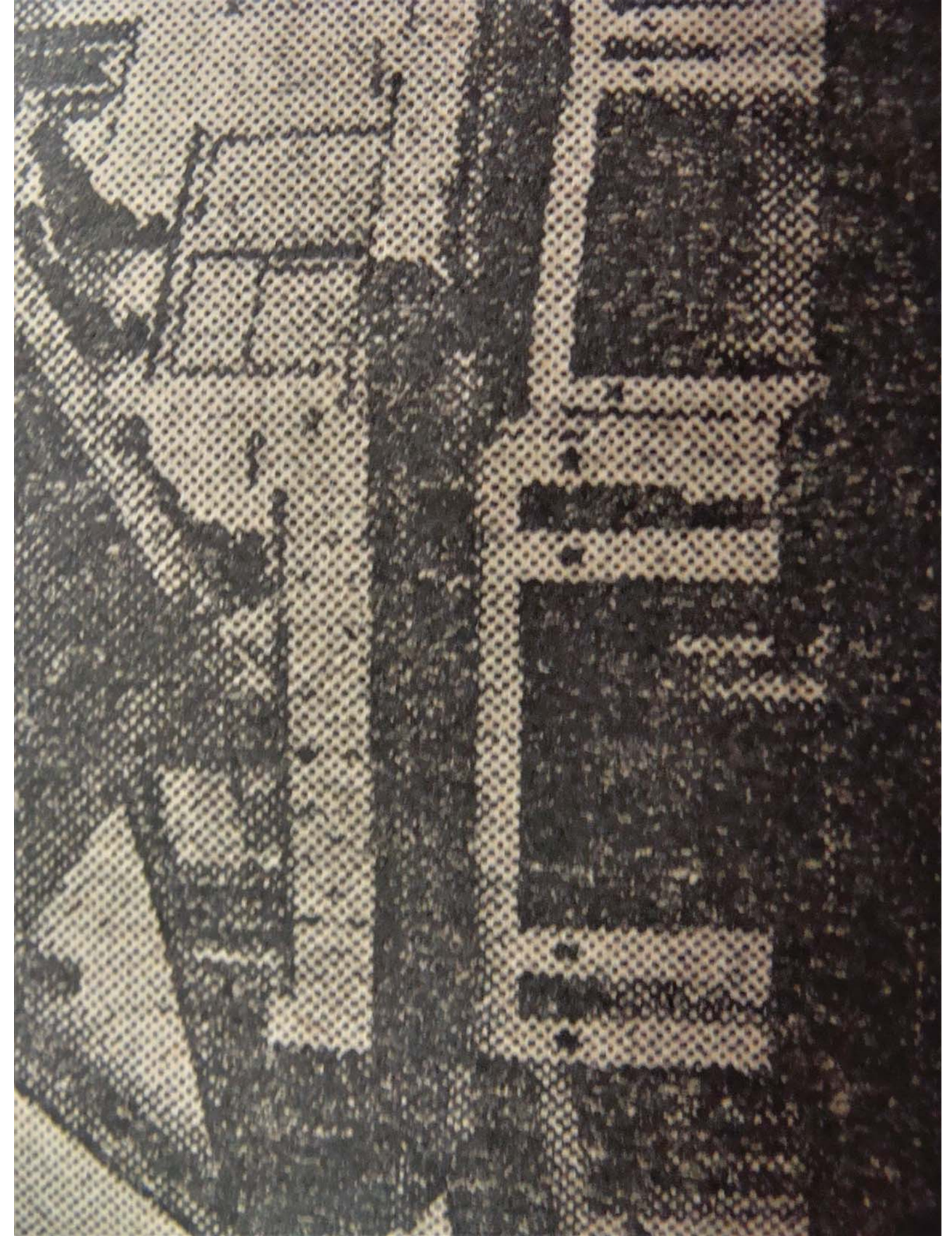


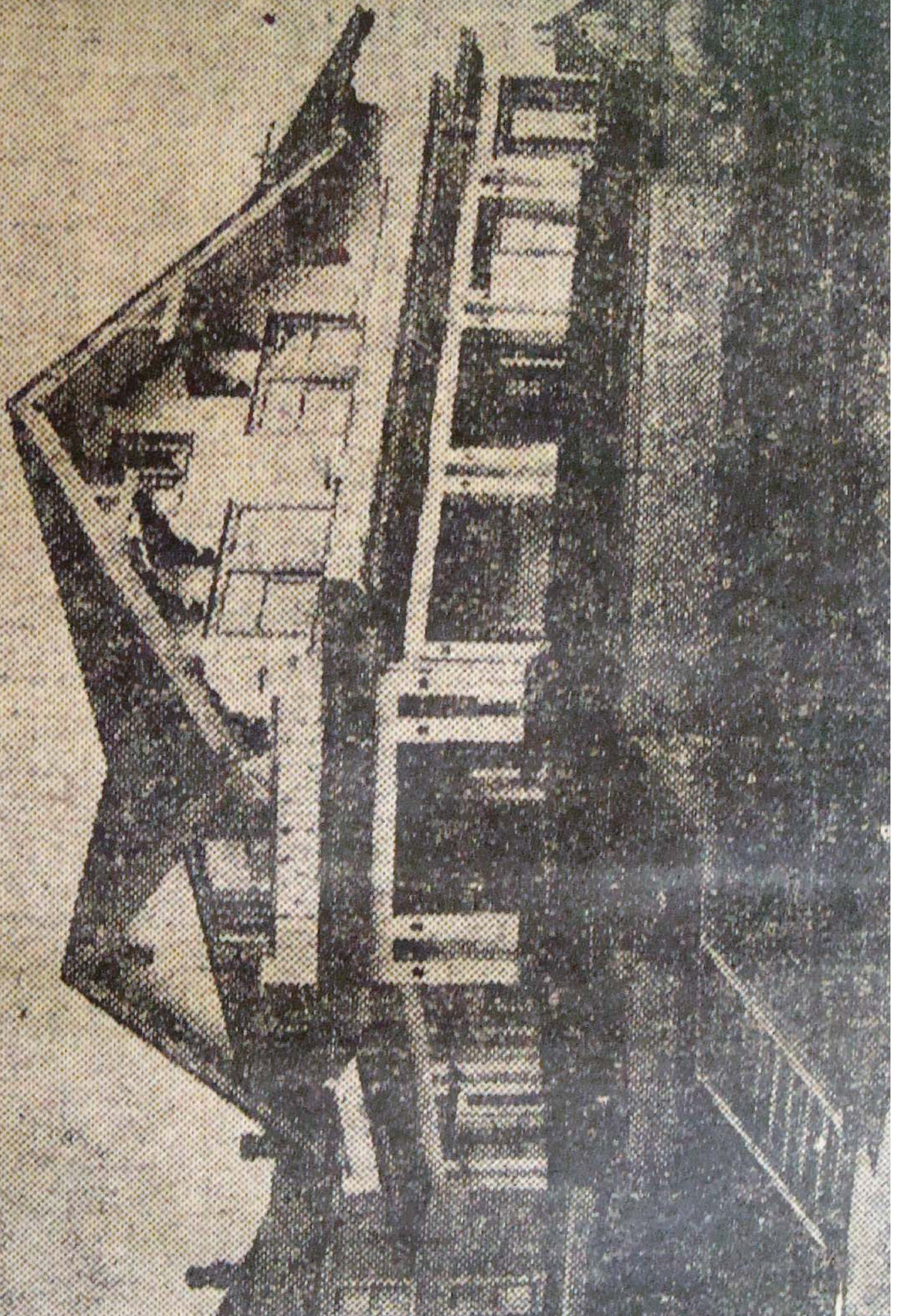




Historic Photos

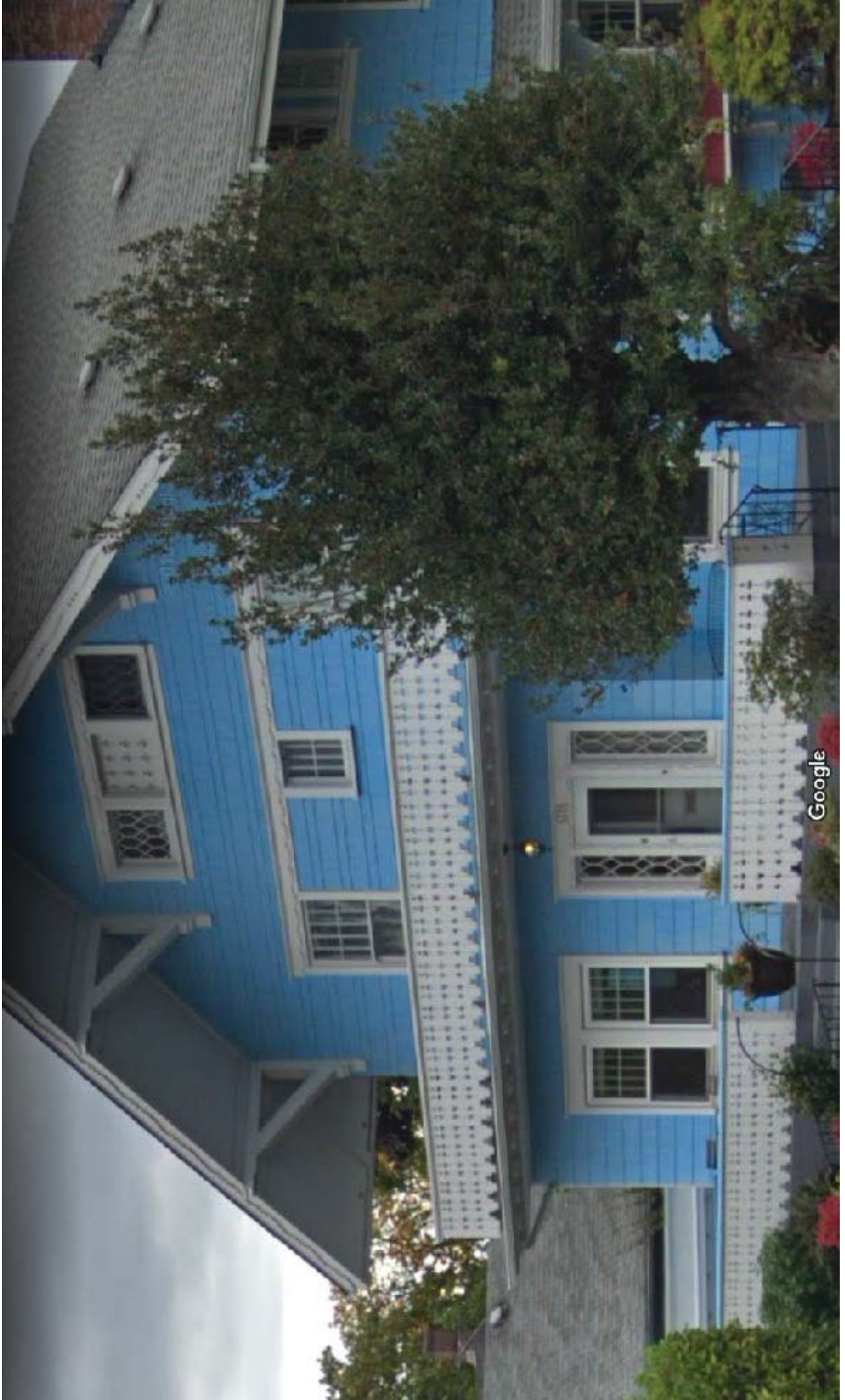








**Example: 1318 S. 4th**



Google



January 14, 2020

Landmark Historic Preservation Commission  
Planning and Development Services  
747 Market Street, Room 345  
Tacoma, WA 98402

**RE: Verizon- TAC Wheeler 5G**

Dear Reviewers,

Verizon Wireless wishes to make modifications to an existing site located at the Bowe's Building on 100 S. 9<sup>th</sup> Street, the project is also known as TAC Wheeler. The proposed maintenance and technology type upgrades to the existing site are necessary to provide adequate wireless services to the general area and within the City of Tacoma network.

The new Verizon proposal involves the replacement of (6) panel antennas and (6) RRUs; Addition of (3) 5G antennas, (2) OVPs and (2) hybrid cables on an existing 42.5' building rooftop. This proposal is different from the previous proposals made to LPC last year. The new proposal eliminated MIMO technology and CBRS antennas, reducing 2 antenna per sector (6 antennas total) from the prior proposal.

The current design also includes addition of (3) 5G antennas mounted at parapet level. In addition, the new proposal reduces steel framing required for structural engineering to the extent possible.

Please feel free to call me at (253) 218-9017 or [RCardoza@LDCcorp.com](mailto:RCardoza@LDCcorp.com) should you have any questions or concerns. Thank you.

Sincerely,



Rick Cardoza  
Senior Project Manager

**LDC, Inc.**  
**The Civil Engineering Group**  
1851 Central Pl. South, Suite 101  
Kent, WA 98030  
[www.LDCcorp.com](http://www.LDCcorp.com)

# TAC Wheeler



100 S. 9th Street  
Tacoma, WA 98402

Photo Location



Existing



Proposed

## Project Information

Project type: Building  
 Overall height: 42'-6"  
 Latitude: 47° 15' 19.75" N  
 Longitude: 122° 26' 16.75" W  
 Ground elevation: 112.00' AMSL  
 Jurisdiction: City of Tacoma  
 Zoning: DCC (Downtown Commercial Core)

Southwest View (Looking Northeast)  
 from Court A and 939 Court Parking

Issue Date: 1-13-20





# TAC Wheeler



100 S. 9th Street  
Tacoma, WA 98402

Photo Location



Existing



Proposed

### **Project Information**

Project type: Building  
 Overall height: 42'-6"  
 Latitude: 47° 15' 19.75" N  
 Longitude: 122° 26' 16.75" W  
 Ground elevation: 112.00' AMSL  
 Jurisdiction: City of Tacoma  
 Zoning: DCC (Downtown Commercial Core)

**Northeast View (Looking Southwest)  
 from Fireman's Park and A Street**

Issue Date: 1-13-20



# TAC Wheeler



100 S. 9th Street  
Tacoma, WA 98402

Photo Location



Existing



Proposed

## Project Information

Project type: Building  
 Overall height: 42'-6"  
 Latitude: 47° 15' 19.75" N  
 Longitude: 122° 26' 16.75" W  
 Ground elevation: 112.00' AMSL  
 Jurisdiction: City of Tacoma  
 Zoning: DCC (Downtown Commercial Core)

**Northwest View (Looking Southeast)  
 from Court A and S 9th Street**

Issue Date: 1-13-20



# TAC Wheeler



Photo Location

100 S. 9th Street  
Tacoma, WA 98402



Existing



Proposed

## Project Information

Project type: Building  
 Overall height: 42'-6"  
 Latitude: 47° 15' 19.75" N  
 Longitude: 122° 26' 16.75" W  
 Ground elevation: 112.00' AMSL  
 Jurisdiction: City of Tacoma  
 Zoning: DCC (Downtown Commercial Core)

**Northeast View (Looking Southwest)  
from S 9th Street and A Street**

Issue Date: 1-13-20



# FINAL ZONING



## TAC WHEELER 4G & 5G

100 S. 9TH STREET  
TACOMA, WA 98402



**VICINITY MAP**  
NOT TO SCALE



**GENERAL LOCATION MAP**  
NOT TO SCALE

**DRIVING DIRECTIONS**  
FROM VERIZON WIRELESS OFFICE:

- HEAD EAST TOWARD 158TH AVE BE
- TURN LEFT ONTO SE EASTGATE WAY
- TURN RIGHT ONTO THE SEATTLE WISEATTLE RAMP
- KEEP LEFT TO CONTINUE TOWARD I-90 W
- KEEP LEFT, FOLLOW SIGNS FOR I-90 WISEATTLE AND
- TAKE THE INTERSTATE 5 S EXIT TOWARD RENTON
- USE THE RIGHT 2 LANES TO TAKE EXIT 10 FOR
- INTERSTATE 405 S TOWARD RENTON
- MERGE ONTO I-405 S
- TAKE THE INTERSTATE 5 S EXIT TOWARD PORTLAND
- FOLLOW I-5 S TO I-90 W
- USE THE RIGHT LANE TO TAKE EXIT 133 FOR I-705 NWA-7 S
- TOWARD CITY CENTER

- USE THE RIGHT LANE TO KEEP RIGHT AT THE FORK AND
- USE THE RIGHT LANE TO FOLLOW SIGNS FOR INTERSTATE
- 705 N CITY CENTER
- CONTINUE ONTO I-705 N
- USE THE MIDDLE LANE TO TAKE THE EXIT TOWARD CITY
- FOLLOW A ST TO S 9TH ST
- CONTINUE ONTO A ST
- TURN LEFT ONTO S 9TH ST
- DESTINATION WILL BE ON THE LEFT

**APPROVAL / SIGN OFF**

APPROVED BY	DATE	SIGNATURE
SITE ACQUISITION		
ZONING		
CONSTRUCTION MANAGER		
PROJECT MANAGER		
LANDLORD		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REVIEW LINE NOTE AS DRAWINGS ARE BEING REVIEWED

**DISCLAIMERS**

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWINGS ARE SUPERSEDED BY THE LATEST REVISION. LDC TAKES NO RESPONSIBILITY FOR ADEQUACY OF TOWER MOUNTS FOR EXISTING OR PROPOSED LOADING. CONTRACTOR AND MOUNT MANUFACTURER TAKE FULL RESPONSIBILITY FOR MOUNTING PRODUCTS USED & THEIR ADEQUACY. MOUNTS SHOWN IN DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY.

**PROJECT CONTACT LIST**

**APPLICANT:**  
VERIZON WIRELESS  
3245 158TH AVENUE SE  
BELLEVUE, WA 98008

**PROJECT ARCHITECT:**  
LDC, INC.  
CONTACT: RICHARD B. HALL, AIA  
PHONE: (425) 986-1869  
EMAIL: rhall@ldccorp.com

**PROPERTY OWNER:**  
BOWES BUILDING LLC  
SHAWB PROPERTIES  
109 S. 9TH STREET  
TACOMA, WA 98402

**PROJECT CONSULTANT:**  
LDC, INC.  
CONTACT: RICK CARDOZA  
PHONE: (253) 218-9017  
EMAIL: rcardoz@ldccorp.com

**DRAWING INDEX**

DWG NO.	DESCRIPTION
T-1.0	TITLE SHEET
A-1.0	SITE PLAN
A-2.0	ENLARGED ANTENNA PLAN
A-2.1	ENLARGED EQUIPMENT PLAN
A-3.0	ELEVATIONS
A-3.1	ELEVATIONS

**PROJECT INFORMATION**

**CODE INFORMATION:**  
REGULATORY JURISDICTION: DCC (DOWNTOWN COMMERCIAL CORE)  
BUILDING CODE: IBC 2015  
CONSTRUCTION TYPE: IIB  
OCCUPANCY: B  
PROPOSED BUILDING USE: UNMANNED TELECOM

**SITE LOCATION (MAD69):**  
LATITUDE: 47° 15' 19.497" N (47.255414° N)  
LONGITUDE: 122° 26' 16.757" W (122.437986° W)  
ELEVATION: 127.00' ASL  
BASE OF STRUCTURE: 112.00' AMSL, 0.0' AGL

**PROJECT LEASE AREA:**  
N/A

**PARCEL NUMBER:**  
2006020010

**AREA OF PARCEL:**  
0.07 ACRES

**NEW IMPERVIOUS AREA:**  
0 SF

**GENERAL INFORMATION:**  
1. PARKING REQUIREMENTS ARE UNCHANGED.  
2. SIGNAGE IS UNAFFECTED.  
3. SIGNAGE IS UNAFFECTED.

**PROPRIETARY INFORMATION**

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO VERIZON WIRELESS SERVICES IS STRICTLY PROHIBITED.

**LEGAL DESCRIPTION**

SECTION 04 TOWNSHIP 20 RANGE 03 QUARTER 22, NEW TACOMA L1 BLK 902 HISTORIC EXEMPTION ENDED WITH 2000 TAXES DC678R41-23 - 1989 DC08182000MU

**UTILITY COMPANIES**

**POWER:**  
TACOMA PUBLIC UTILITY  
PHONE: (253) 932-8606

**TELEPHONE:**  
CENTURY LINK  
PHONE: (800) 777-9584

**PROJECT DESCRIPTION**

VERIZON WIRELESS PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY WITH THE:

REPLACEMENT OF:

- (6) PANEL ANTENNAS
- (6) PRUS UNITS

ADDITION OF:

- (3) 5G PANEL ANTENNAS
- (4) DISTRIBUTION OVP-6 BOXES (2 @ ANTENNAS, 2 @ HYBRID CABLES)
- (2) HYBRID CABLES



**LDC**  
Landscape Architecture  
1000 1st Avenue NE  
Seattle, WA 98109  
www.ldccorp.com | 206.461.8000

DATE: 1-7-19  
DRAWN BY: SRN  
CHECKED BY: RBH

REV	DATE	DESCRIPTION	BY
1	1-7-19	ISSUE FOR PERMITS	SRN
2	1-13-19	FINAL ZONING	SRN
3	1-23-19	REVISIONS TO PERMITS	SRN
4	10-21-19	UPDATE EQUIPMENT PLAN	SRN
5	10-21-19	UPDATE ANTENNA PLAN	SRN
6	10-21-19	UPDATE ELEVATIONS	SRN



APPROVAL STAMP

**SITE**  
T18455  
TAC WHEELER 4G & 5G  
100 S. 9TH STREET  
TACOMA, WA 98402

**SHEET TITLE**  
TITLE SHEET

**SHEET NUMBER**  
T-1.0



**LDC** Landmark Design Consulting  
 Surveying  
 Planning

1000 1st Avenue NE  
 Seattle, WA 98109  
 Phone: 206.461.1111  
 Fax: 206.461.1112  
 www.ldcgroup.com

DATE: 1/7/19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

NO.	DATE	DESCRIPTION	BY
1	1/7/19	ISSUE FOR PERMITS	SRN
2	1/15/19	REVISED ZONING	SRN
3	1/23/19	REVISED ZONING	SRN
4	1/23/19	REVISED ZONING	SRN
5	1/23/19	REVISED ZONING	SRN
6	1/23/19	REVISED ZONING	SRN
7	1/23/19	REVISED ZONING	SRN

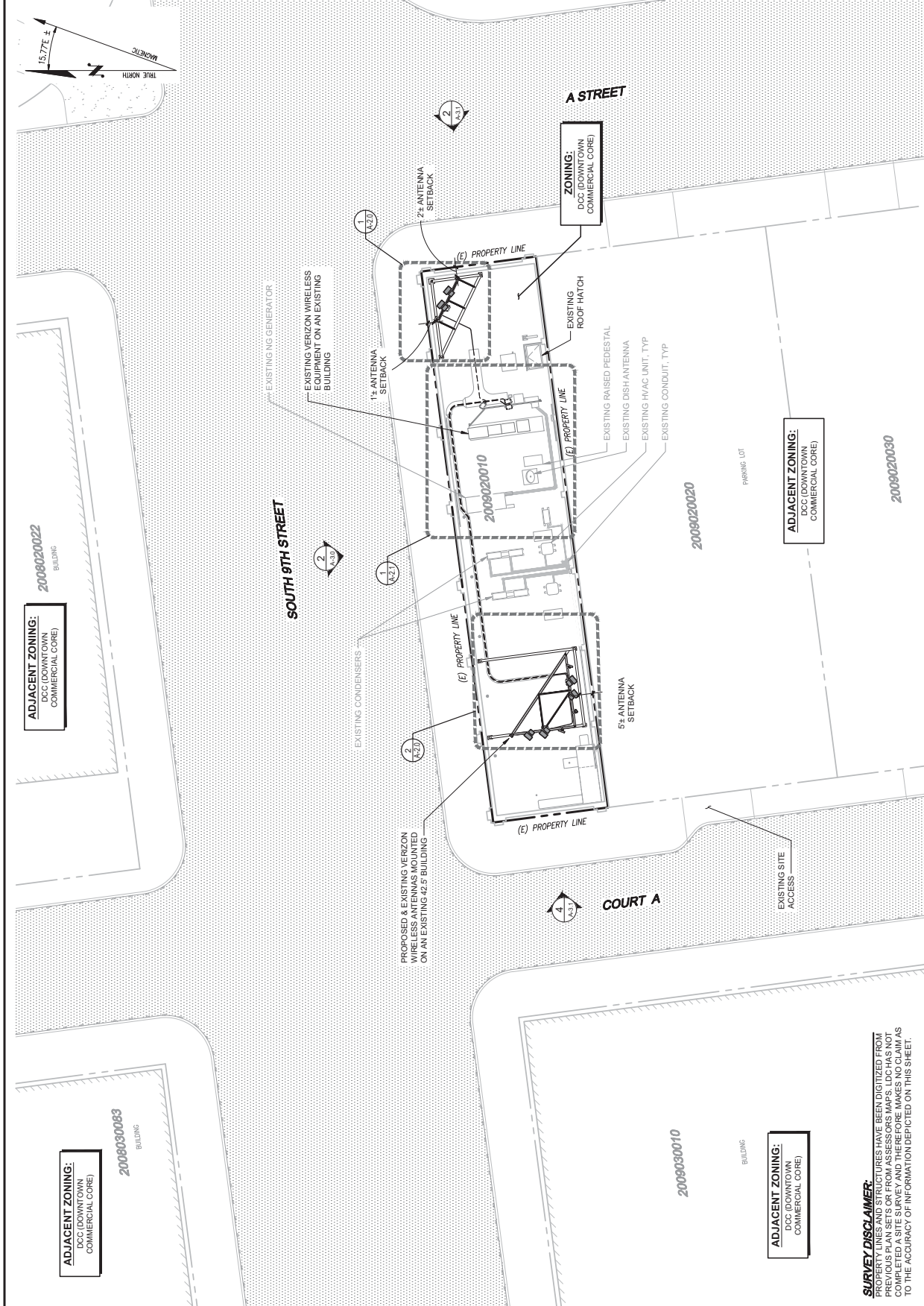


APPROVAL STAMP

**SITE**  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

**SHEET TITLE**  
 SITE PLAN

**SHEET NUMBER**  
 A-1.0



**SITE PLAN**  
 1

22'-x34' SCALE: 1"= 10'

11'x17' SCALE: 1"= 20'



DATE: 1/7/19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

NO.	DATE	DESCRIPTION	BY
1	1/7/19	ISSUE FOR PERMITS	SRN
2	1/13/19	REVISED PERMITS	SRN
3	1/23/19	REVISED PERMITS	SRN
4	1/23/19	REVISED PERMITS	SRN
5	1/23/19	REVISED PERMITS	SRN
6	1/23/19	REVISED PERMITS	SRN



APPROVAL STAMP

SITE  
 T18465  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

SHEET TITLE  
 ENLARGED ANTENNA PLAN

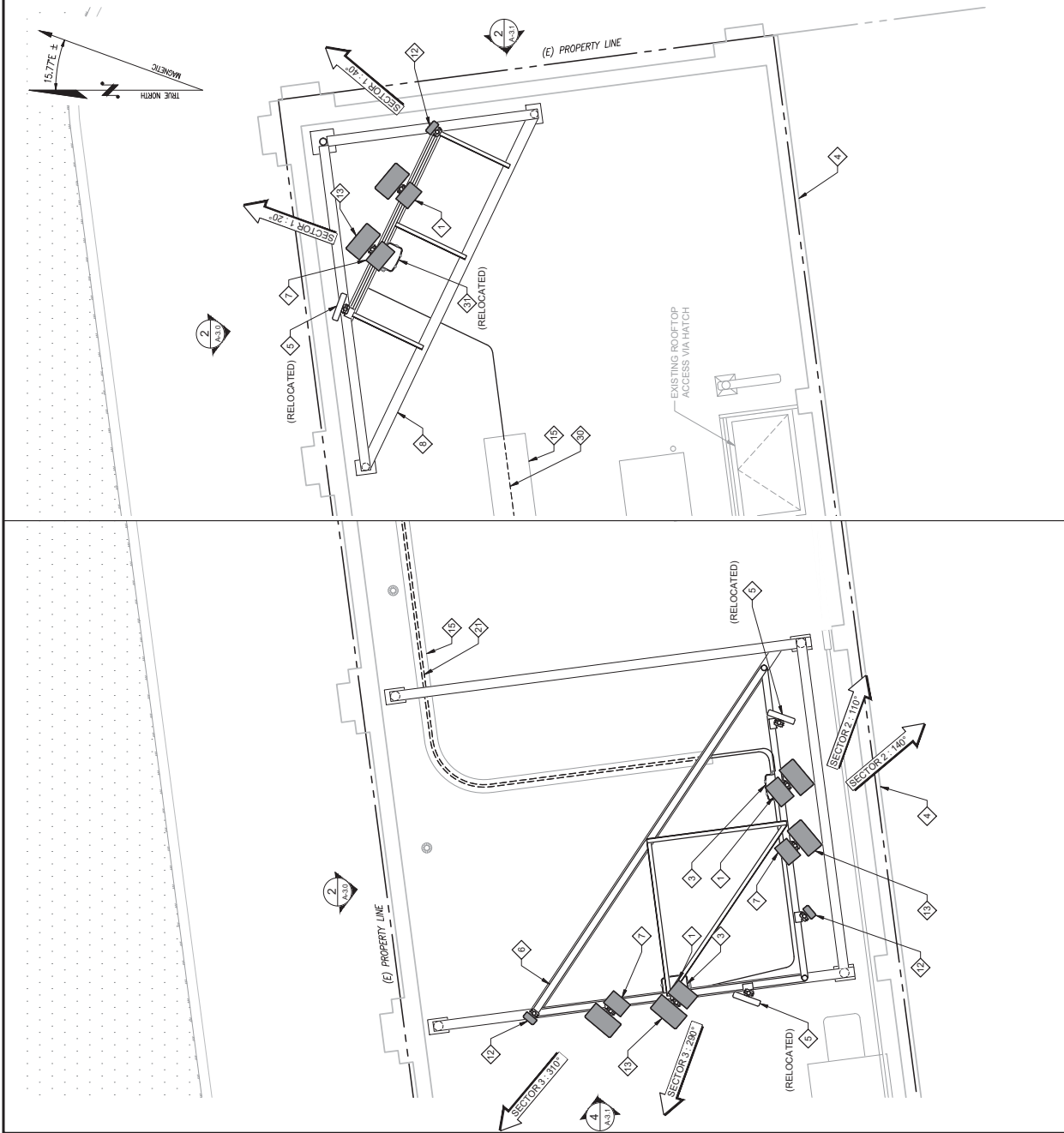
SHEET NUMBER  
 A-2.0

**CONSTRUCTION PLAN KEYED NOTES**

- 1 PROPOSED WIRELESS RRUS  
 4449 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 2 PROPOSED WIRELESS RAYCAP DISTRIBUTION  
 OVP-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 3 EXISTING 42.5' BUILDING (TO REMAIN).
- 4 EXISTING WIRELESS PANEL ANTENNA  
 (TYP 1 PER SECTOR, 3 TOTAL TO REMAIN).
- 5 EXISTING WIRELESS ROOFTOP ANTENNA MOUNT  
 (TO REMAIN), (RECONFIGURED PER STRUCTURAL).
- 6 PROPOSED WIRELESS RRUS 8843 UNIT  
 (TYP 1 PER SECTOR, 3 TOTAL).
- 7 PROPOSED WIRELESS ROOFTOP  
 ANTENNA MOUNT (SEE STRUCTURAL).
- 8 PROPOSED WIRELESS AIR/ETH 5G  
 PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL).
- 9 PROPOSED WIRELESS PANEL  
 ANTENNA (TYP 2 PER SECTOR, 6 TOTAL).
- 10 EXISTING WIRELESS CABLE TRAY (TO REMAIN).
- 11 PROPOSED WIRELESS HYBRID CABLE TO ANTENNAS (2 TOTAL).  
 SEE CABLE LENGTH SCHEDULE ON RF-1.0.
- 12 EXISTING WIRELESS HYBRID CABLE TO ANTENNAS  
 (1 TOTAL TO REMAIN).
- 13 EXISTING WIRELESS RAYCAP DISTRIBUTION OVP BOX  
 (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).

**SITE NOTES**

- 1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
- 2. ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED  
 BY A LICENSED STRUCTURAL ENGINEER.
- 3. PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE  
 NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.



**ENLARGED ANTENNA PLAN - SECTOR 1** | 1 | 22"x34" SCALE: 3/8" = 1'-0" | 11x17" SCALE: 3/16" = 1'-0"

**ENLARGED ANTENNA PLAN - SECTOR 2 & 3** | 2 | 22"x34" SCALE: 3/8" = 1'-0" | 11x17" SCALE: 3/16" = 1'-0"



**LDC** Surveying & Engineering  
Professional Corporation  
10100 1st Avenue NE  
Seattle, WA 98120  
Phone: (206) 468-4000  
Fax: (206) 468-4001  
www.ldcgroup.com

DATE: 12-19-19  
DRAWN BY: SRN  
CHECKED BY: RBH

REV	DATE	DESCRIPTION	BY
1	12-19-19	ISSUE FOR PERMITS	SRN
2	3-13-19	REVISED PERMITS	SRN
3	7-25-19	REVISED PERMITS	SRN
4	10-24-19	REVISED PERMITS	SRN
5	10-24-19	REVISED PERMITS	SRN



APPROVAL STAMP

**SITE**  
T18455  
TAC WHEELER 4G & 5G  
100 S. 9TH STREET  
TACOMA, WA 98402

**SHEET TITLE**  
ENLARGED EQUIPMENT PLAN

**SHEET NUMBER**  
A-2.1

**CONSTRUCTION PLAN KEYED NOTES**

- EXISTING VERIZON WIRELESS ROOFTOP EQUIPMENT MOUNTED ON SLEEPERS (TO REMAIN).
- PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION OVP-P-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- EXISTING 42.5' BUILDING (TO REMAIN).

- EXISTING VERIZON WIRELESS CABLE TRAY (TO REMAIN).

- EXISTING VERIZON WIRELESS GPS ANTENNA (TO REMAIN).

- PROPOSED VERIZON WIRELESS HYBRID CABLE TO ANTENNAS (2 TOTAL, SEE CABLE LENGTH SCHEDULE ON RF-1.0).

- EXISTING VERIZON WIRELESS TELCO FIBER CABINET (TO REMAIN).

- EXISTING VERIZON WIRELESS ILC CABINET (TO REMAIN).

- EXISTING VERIZON WIRELESS GENERATOR (TO REMAIN).

- EXISTING VERIZON WIRELESS UTILITY H-FRAME (TO REMAIN).

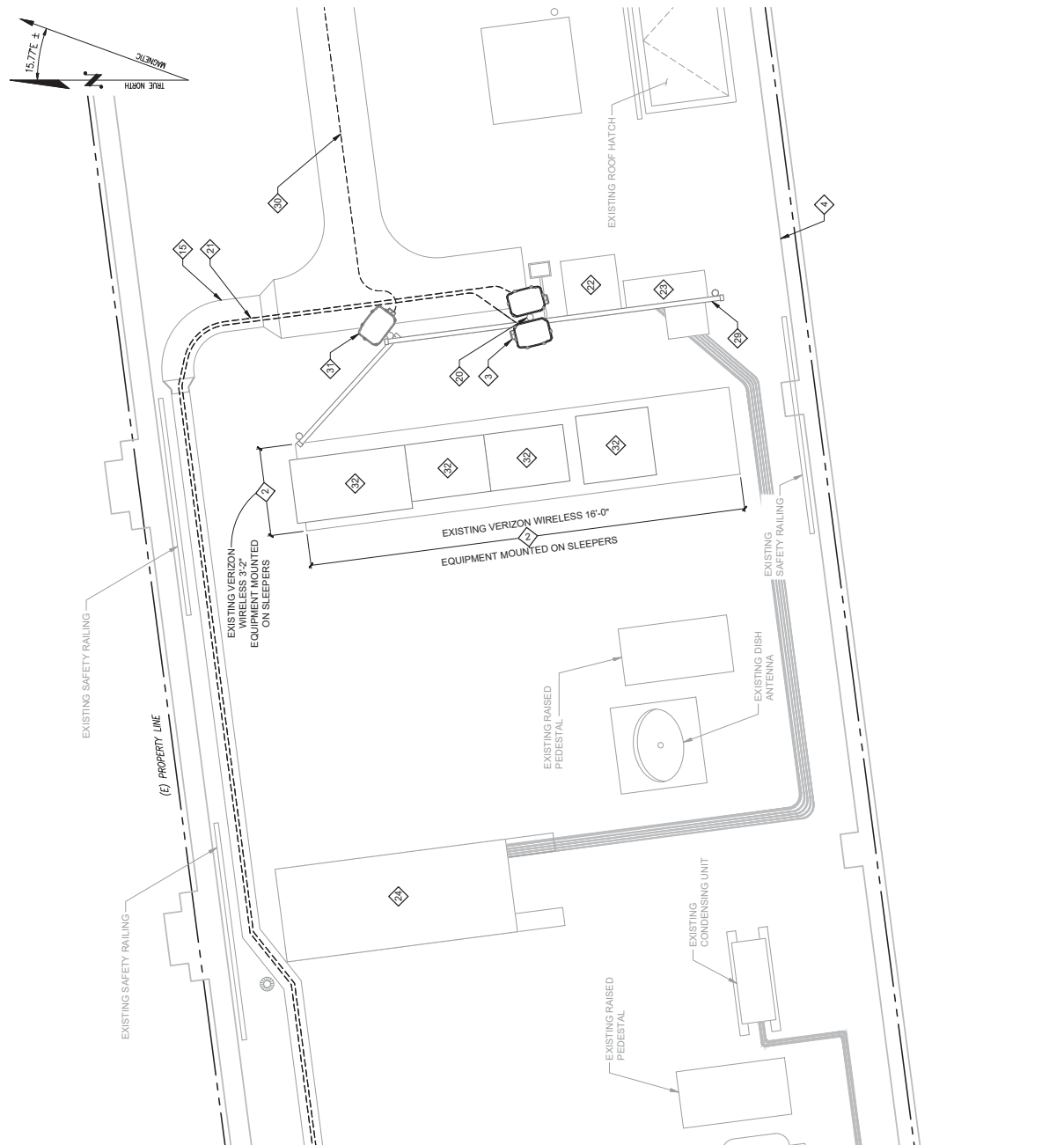
- EXISTING VERIZON WIRELESS HYBRID CABLE TO ANTENNAS (1 TOTAL TO REMAIN).

- EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).

- EXISTING VERIZON WIRELESS EQUIPMENT CABINET (4 TOTAL TO REMAIN).

**SITE NOTES**

- VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
- ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED BY A LICENSED STRUCTURAL ENGINEER.
- PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.



**ENLARGED EQUIPMENT PLAN**

22"x36" SCALE: 1/2" = 1'-0" 11"x17" SCALE: 1/4" = 1'-0"



DATE: 1-7-19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

REV	DATE	DESCRIPTION
1	1-7-19	ISSUE FOR PERMITS
2	1-13-19	REVISED PERMITS
3	1-23-19	REVISED PERMITS
4	1-23-19	REVISED PERMITS
5	1-23-19	REVISED PERMITS
6	1-23-19	REVISED PERMITS
7	1-23-19	REVISED PERMITS
8	1-23-19	REVISED PERMITS
9	1-23-19	REVISED PERMITS
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13	1-23-19	REVISED PERMITS
14	1-23-19	REVISED PERMITS
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16	1-23-19	REVISED PERMITS
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97	1-23-19	REVISED PERMITS
98	1-23-19	REVISED PERMITS
99	1-23-19	REVISED PERMITS
100	1-23-19	REVISED PERMITS



APPROVAL STAMP

SITE  
 T18455  
 TAC: WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

SHEET TITLE  
 ELEVATIONS

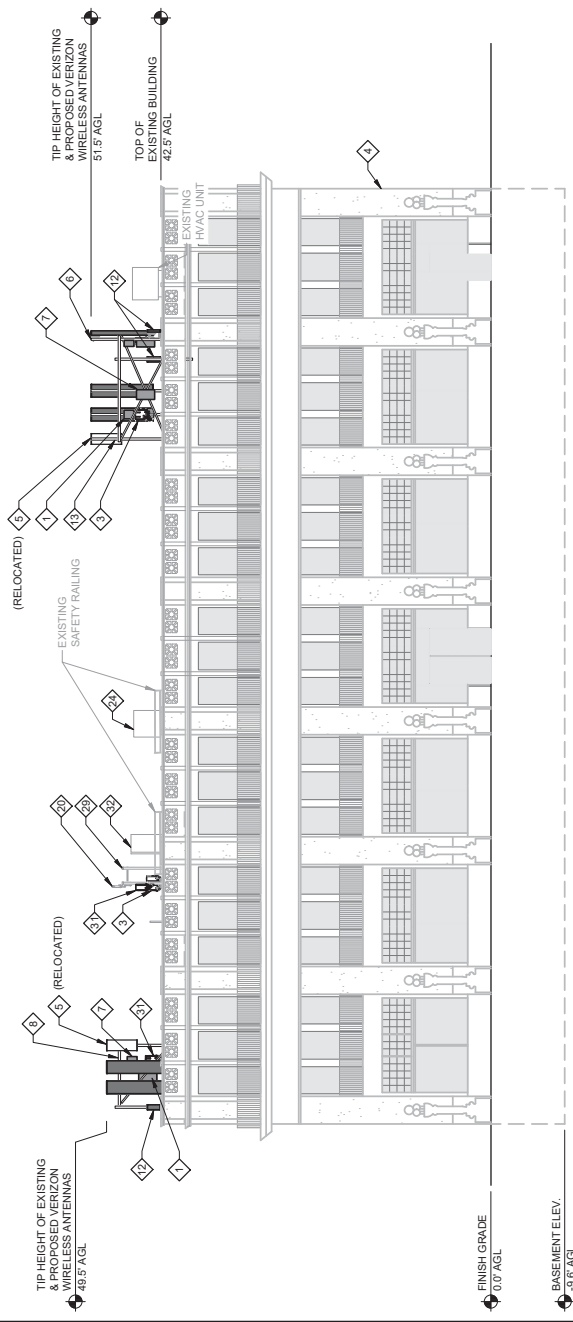
SHEET NUMBER  
 A-3.0

**CONSTRUCTION PLAN KEYED NOTES**

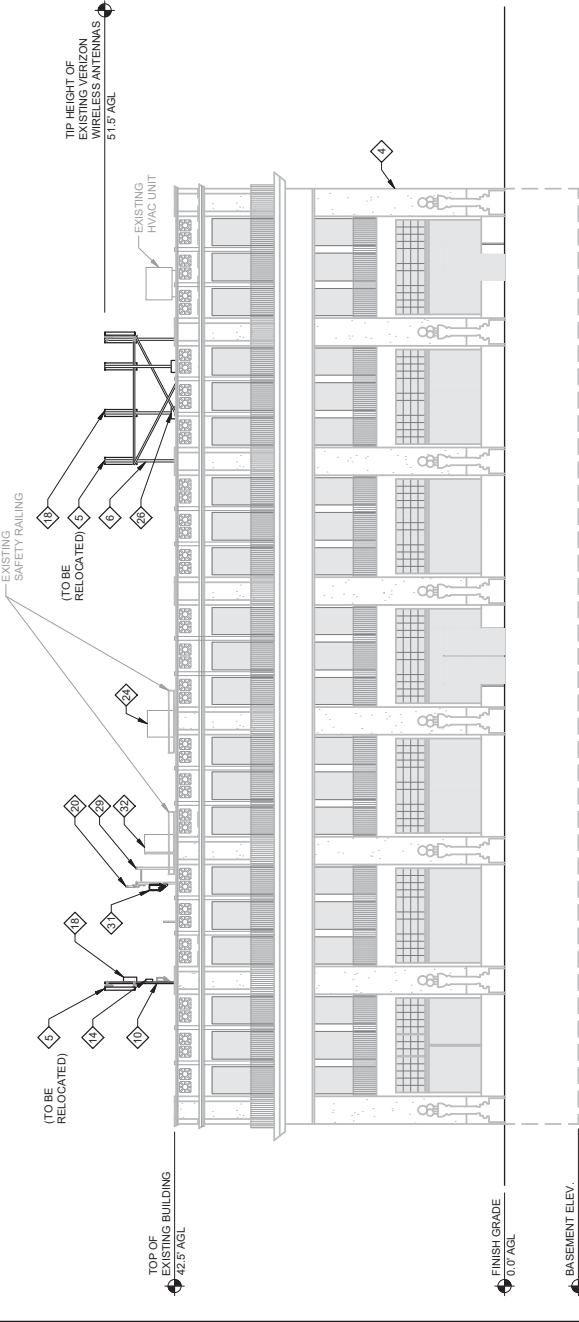
- 1 PROPOSED VERIZON WIRELESS RRUS 4449 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 2 PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION OVP-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 3 EXISTING 42.5' BUILDING (TO REMAIN).
- 4 EXISTING VERIZON WIRELESS PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL TO REMAIN).
- 5 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT (TO REMAIN), (RECONFIGURED PER STRUCTURAL).
- 6 PROPOSED VERIZON WIRELESS RRUS 8843 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 7 PROPOSED VERIZON WIRELESS ROOFTOP ANTENNA MOUNT (SEE STRUCTURAL).
- 8 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT W/ SUBEYES (TO BE REMOVED).
- 9 PROPOSED VERIZON WIRELESS 2208 COMBINED ANTENNA/RRU (TYP 1 PER SECTOR, 3 TOTAL).
- 10 PROPOSED VERIZON WIRELESS AIR/701 5G PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL).
- 11 PROPOSED VERIZON WIRELESS PANEL ANTENNA (TYP 2 PER SECTOR, 6 TOTAL).
- 12 EXISTING VERIZON WIRELESS TMA (TYP 1 PER SECTOR, 3 TOTAL TO BE REMOVED).
- 13 EXISTING VERIZON WIRELESS GPS ANTENNA (TO REMAIN).
- 14 EXISTING VERIZON WIRELESS GPS ANTENNA (TO REMAIN).
- 15 EXISTING VERIZON WIRELESS GENERATOR (TO REMAIN).
- 16 EXISTING VERIZON WIRELESS RRUS UNIT (TYP 2 PER SECTOR, 6 TOTAL TO BE REPLACED).
- 17 EXISTING VERIZON WIRELESS UTILITY H-FRAME (TO REMAIN).
- 18 EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).
- 19 EXISTING VERIZON WIRELESS EQUIPMENT CABINET (4 TOTAL TO REMAIN).

**SITE NOTES**

- 1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
- 2. ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED BY A LICENSED STRUCTURAL ENGINEER.
- 3. PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.



**PROPOSED NORTH ELEVATION (LOOKING SOUTH)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"



**EXISTING NORTH ELEVATION (LOOKING SOUTH)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"





DATE: 1-7-19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

REV	DATE	DESCRIPTION	BY
1	1-7-19	ISSUE FOR PERMITS	SRN
2	1-13-19	FINAL ZONING	SRN
3	1-23-19	REDO UPDATE EIRN NOTES	SRN
4	10-21-19	REDO UPDATE ANTENNAS	SRN
5	11-22-19	REDO UPDATE ROOF TOWER	SRN



APPROVAL STAMP

SITE  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

SHEET TITLE  
 ELEVATIONS

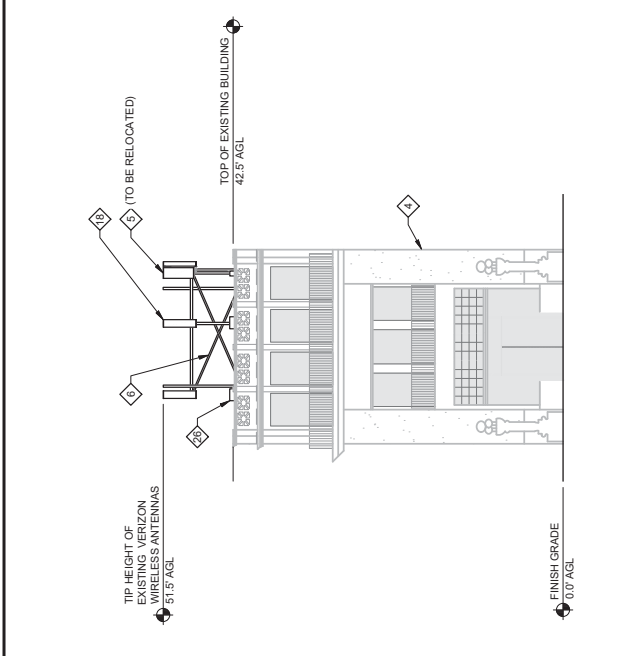
SHEET NUMBER  
 A-3.1

**CONSTRUCTION PLAN KEYED NOTES**

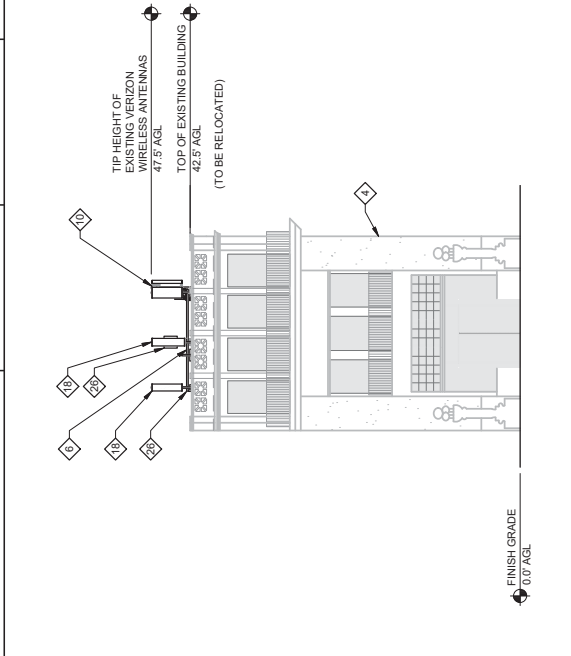
- 1 PROPOSED VERIZON WIRELESS RRUS 4449 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 2 PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION OVP-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 3 EXISTING 42.5 BUILDING (TO REMAIN).
- 4 EXISTING VERIZON WIRELESS PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL TO REMAIN).
- 5 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT (TO REMAIN), (RECONFIGURED PER STRUCTURAL).
- 6 PROPOSED VERIZON WIRELESS RRUS 8843 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 7 PROPOSED VERIZON WIRELESS ROOFTOP ANTENNA MOUNT (SEE STRUCTURAL).
- 8 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT W/ SUPPORTS (TO BE REMOVED).
- 9 PROPOSED VERIZON WIRELESS 2208 COMBINED ANTENNA/RRU (TYP 1 PER SECTOR, 3 TOTAL).
- 10 PROPOSED VERIZON WIRELESS AIR/701 5G PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL).
- 11 PROPOSED VERIZON WIRELESS PANEL ANTENNA (TYP 2 PER SECTOR, 6 TOTAL).
- 12 EXISTING VERIZON WIRELESS TMA (TYP 1 PER SECTOR, 3 TOTAL TO BE REMOVED).
- 13 EXISTING VERIZON WIRELESS PANEL ANTENNA (TYP 3 PER SECTOR, 3 TOTAL TO BE REPLACED).
- 14 EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).

**SITE NOTES**

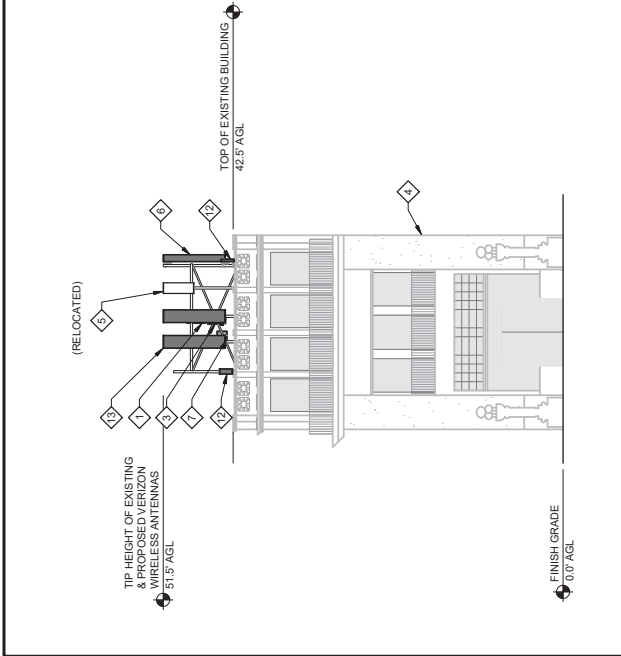
- 1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
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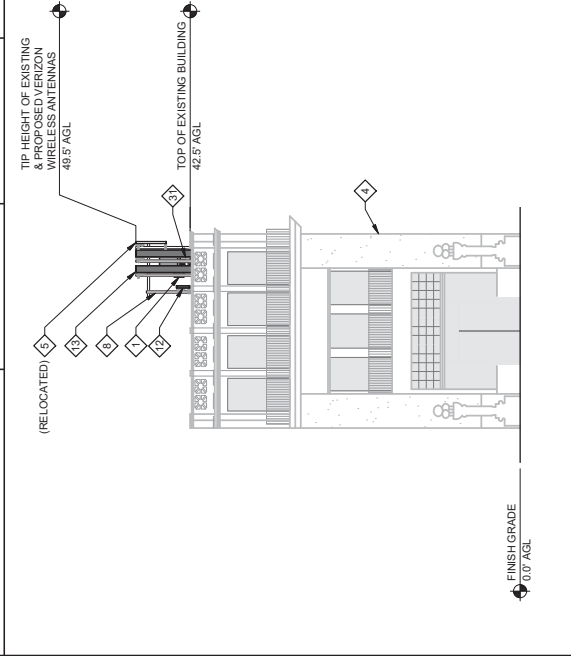
**EXISTING WEST ELEVATION (LOOKING EAST)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"



**EXISTING EAST ELEVATION (LOOKING WEST)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"



**PROPOSED WEST ELEVATION (LOOKING EAST)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"



**PROPOSED EAST ELEVATION (LOOKING WEST)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"

**Previous application from 8/14/19**

# Landmarks Preservation Commission

Planning and Development Services Department



747 Market Street | Room 345 | Tacoma WA 98402-3793 | 253.591.5220

## APPLICATION FOR DESIGN REVIEW

Permit Number: HDR19-0007

### PROPERTY INFORMATION

<b>Building/Property Name:</b>	TAC Wheeler
<b>Building/Property Address:</b>	100 S 9TH ST
<b>Historic/Conservation District:</b>	N/A
<b>Applicant's Name:</b>	Ricquel Cardoza
<b>Applicant's Address:</b>	20210 142nd Avenue NE Woodinville, WA 98072
<b>Applicant's Phone:</b>	2067131626
<b>Applicant's Email:</b>	ricquelc@ldccorp.com
<b>Property Owner's Name:</b>	BOWES BUILDING LLC
<b>Property Owner's Address:</b>	

### PROJECT SCOPE AND DESCRIPTION

Project Details	
<b>Application Type:</b>	Commercial
<b>Type of Work:</b>	Addition
<b>Estimated Valuation:</b>	34000.00
Application Checklist	
<b>Features to be Modified:</b>	
<b>Program of Work:</b>	
<b>Specifications of Materials and Finishes:</b>	

**Building/Roofing Information**

Roof Height: 42.5  
Roof Pitch:  
Roof Material:  
Size of Construction: 0 sq ft

Proposed Material:

Exterior Material:

**Window Information**

Window Types:

Window Trim:

Window Material:

Window Locations:

**Door Information**

Door Types:

Door Materials:

Door Locations:

**Sign/Awning Information**

**Existing Signage:** No

**Sign Dimensions:**

**Sign Material:**

**Logo and Letter Size:**

**Lighting Specifications:**

**Removing or Relocating Signage:**

**Method of Attachment:**

# TAC Wheeler



100 S. 9th Street  
Tacoma, WA 98402

Photo Location



Existing



Proposed

## Project Information

Project type: Building  
Overall height: 42'-6"  
Latitude: 47° 15' 19.75" N  
Longitude: 122° 26' 16.75" W  
Ground elevation: 112.00' AMSL  
Jurisdiction: City of Tacoma  
Zoning: DCC (Downtown Commercial Core)

Southwest View (Looking Northeast)  
from Court A and 939 Court Parking

Issue Date: 3-29-19



# TAC Wheeler



100 S. 9th Street  
Tacoma, WA 98402

Photo Location



Existing



Proposed

### **Project Information**

Project type: Building  
 Overall height: 42'-6"  
 Latitude: 47° 15' 19.75" N  
 Longitude: 122° 26' 16.75" W  
 Ground elevation: 112.00' AMSL  
 Jurisdiction: City of Tacoma  
 Zoning: DCC (Downtown Commercial Core)

**Northeast View (Looking Southwest)  
 from Fireman's Park and A Street**

Issue Date: 3-29-19



# TAC Wheeler



100 S. 9th Street  
Tacoma, WA 98402

Photo Location



Existing



Proposed

## Project Information

Project type: Building  
 Overall height: 42'-6"  
 Latitude: 47° 15' 19.75" N  
 Longitude: 122° 26' 16.75" W  
 Ground elevation: 112.00' AMSL  
 Jurisdiction: City of Tacoma  
 Zoning: DCC (Downtown Commercial Core)

Northwest View (Looking Southeast)  
from Court A and S 9th Street

Issue Date: 3-29-19





# TAC Wheeler



Photo Location

100 S. 9th Street  
Tacoma, WA 98402



Existing



Proposed

## Project Information

Project type: Building  
Overall height: 42'-6"  
Latitude: 47° 15' 19.75" N  
Longitude: 122° 26' 16.75" W  
Ground elevation: 112.00' AMSL  
Jurisdiction: City of Tacoma  
Zoning: DCC (Downtown Commercial Core)

**Northeast View (Looking Southwest)  
from S 9th Street and A Street**

Issue Date: 3-29-19

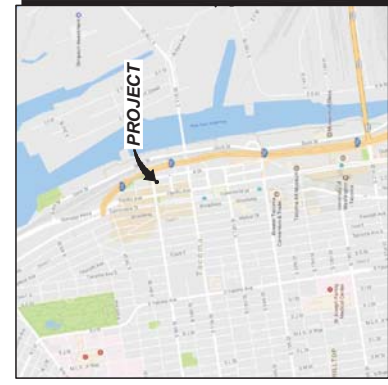


# FINAL ZONING

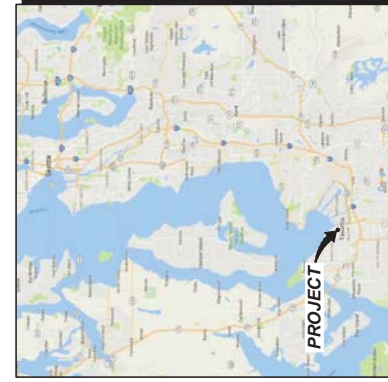


# TAC WHEELER 4G & 5G

100 S. 9TH STREET  
TACOMA, WA 98402



**GENERAL LOCATION MAP**  
NOT TO SCALE



**VICINITY MAP**  
NOT TO SCALE

**DRIVING DIRECTIONS**  
FROM VERIZON WIRELESS OFFICE:

- HEAD EAST TOWARD 158TH AVE BE
- TURN LEFT ONTO SE EASTGATE WAY
- TURN RIGHT ONTO THE SEATTLE WISEATTLE RAMP
- KEEP LEFT TO CONTINUE TOWARD I-90 W
- KEEP LEFT, FOLLOW SIGNS FOR I-90 WISEATTLE AND
- TAKE THE INTERSTATE 5 S EXIT TOWARD RENTON
- USE THE RIGHT 2 LANES TO TAKE EXIT 10 FOR
- INTERSTATE 405 S TOWARD RENTON
- MERGE ONTO I-405 S
- TAKE THE INTERSTATE 5 S EXIT TOWARD PORTLAND
- FOLLOW I-5 S TO TAKE EXIT 133 FOR I-705 NWA-7 S
- USE THE RIGHT LANE TO TAKE EXIT 133 FOR I-705 NWA-7 S
- TOWARD CITY CENTER APPROVAL / SIGN OFF OF FINAL ZONING DRAWINGS

- USE THE RIGHT LANE TO KEEP RIGHT AT THE FORK AND
- USE THE RIGHT LANE TO FOLLOW SIGNS FOR INTERSTATE
- 705 N CITY CENTER
- CONTINUE ONTO I-705 N
- USE THE MIDDLE LANE TO TAKE THE EXIT TOWARD CITY
- FOLLOW A ST TO S 9TH ST
- CONTINUE ONTO A ST
- TURN LEFT ONTO S 9TH ST
- DESTINATION WILL BE ON THE LEFT

**DISCLAIMERS**  
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWINGS ARE SUPERSEDED BY THE LATEST REVISION. LDC TAKES NO RESPONSIBILITY FOR ADEQUACY OF TOWER MOUNTS FOR EXISTING OR PROPOSED LOADING. CONTRACTOR AND MOUNT MANUFACTURER TAKE FULL RESPONSIBILITY FOR MOUNTING PRODUCTS USED & THEIR ADEQUACY. MOUNTS SHOWN IN DRAWINGS ARE FOR ILLUSTRATIVE PURPOSES ONLY.

**APPROVAL / SIGN OFF**

APPROVED BY	DATE	SIGNATURE
SITE ACQUISITION		
ZONING		
RF		
CONSTRUCTION MANAGER		
PROJECT MANAGER		
LANDLORD		

REVIEWERS SHALL CLEARLY PLACE INITIALS & ADJACENT TO EACH REVIEW LINE NOTE AS DRAWINGS ARE BEING REVIEWED

**PROJECT CONTACT LIST**

**APPLICANT:**  
VERIZON WIRELESS  
3245 158TH AVENUE SE  
BELLEVUE, WA 98008

**PROJECT ARCHITECT:**  
LDC, INC.  
CONTACT: RICHARD B. HALL, AIA  
PHONE: (425) 986-1869  
EMAIL: rhall@ldccorp.com

**PROPERTY OWNER:**  
BOWES BUILDING LLC  
SHABU PROPERTIES  
109 S. 9TH STREET  
TACOMA, WA 98402

**PROJECT CONSULTANT:**  
LDC, INC.  
CONTACT: RICK CARDOZA  
PHONE: (253) 218-9017  
EMAIL: rcardoz@ldccorp.com

**DRAWING INDEX**

**DWG NO.**      **DESCRIPTION**

T-1.0      TITLE SHEET

A-1.0      SITE PLAN

A-2.0      ENLARGED ANTENNA PLAN

A-2.1      ENLARGED EQUIPMENT PLAN

A-3.0      ELEVATIONS

A-3.1      ELEVATIONS

**PROJECT INFORMATION**

**CODE INFORMATION:**  
REGULATORY JURISDICTION: DCC (DOWNTOWN COMMERCIAL CORE)  
BUILDING CODE: IBC 2015  
CONSTRUCTION TYPE: IIB  
OCCUPANCY: B  
PROPOSED BUILDING USE: UNMANNED TELECOM

**SITE LOCATION (MAD69):**  
LATITUDE: 47° 15' 19.497" N (47.255414° N)  
LONGITUDE: 122° 26' 16.7575" W (122.437986° W)  
ELEVATION: 120' ASL  
BASE OF STRUCTURE: 112.00± AMSL, 0.0' AGL

**PROJECT LEASE AREA:** N/A      **PARCEL NUMBER:** 2006920010

**NEW IMPERVIOUS AREA:** 0 SF      **AREA OF PARCEL:** 0.07 ACRES

**GENERAL INFORMATION:**  
1. PARKING REQUIREMENTS ARE UNCHANGED.  
2. SIGNAGE IS UNAFFECTED.  
3. SIGNAGE IS UNAFFECTED.

**LEGAL DESCRIPTION**

SECTION 04 TOWNSHIP 20 RANGE 03 QUARTER 22, NEW TACOMA L1 BLK 902 HISTORIC EXEMPTION ENDED WITH 2000 TAXES DC678R41-23 - 1989 DC08182000MU

**UTILITY COMPANIES**

**POWER:** TACOMA PUBLIC UTILITY  
PHONE: (253) 932-8606

**TELEPHONE:** CENTURY LINK  
PHONE: (800) 777-9584

**PROJECT DESCRIPTION**

VERIZON WIRELESS PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY WITH THE:

REPLACEMENT OF:

- (6) PANEL ANTENNAS
- (6) PRUS UNITS

ADDITION OF:

- (3) PANEL ANTENNAS
- (3) 5G PANEL ANTENNAS
- (2) DISTRIBUTION O-PHP-6 BOXES (2 @ ANTENNAS, 2 @ EQUIPMENT)
- (2) HYBRID CABLES

**PROPRIETARY INFORMATION**

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO WIRELESS SERVICES IS STRICTLY PROHIBITED.

**LDC** | Surveying  
| Engineering  
| Planning  
| Architecture

1000 Third Avenue NE  
Seattle, WA 98109  
TEL: 206.461.1100  
WWW.LDCORP.COM

DATE: 1-7-19  
DRAWN BY: SRN  
CHECKED BY: RBH

REV	DATE	DESCRIPTION	BY
1	1-7-19	ISSUE FOR PERMITS	SRN
2	1-13-19	REVISED ZONING	SRN
3	1-23-19	REVISED UPRATE FIVE BOXES	SRN

100 S. 9TH STREET  
TACOMA, WA 98402

**APPROVAL STAMP**

APPROVAL STAMP

**SITE**

T18455  
TAC WHEELER 4G & 5G  
100 S. 9TH STREET  
TACOMA, WA 98402

**SHEET TITLE**

TITLE SHEET

**SHEET NUMBER**

T-1.0

**LDC** Surveying & Engineering  
 Planning  
 1000 1st Avenue NE  
 3rd Floor, Suite 300  
 Everett, WA 98203  
 Phone: (425) 736-1000  
 Fax: (425) 736-1001  
 www.ldc.com

DATE:	1.7.19
DRAWN BY:	SRN
CHECKED BY:	RBH

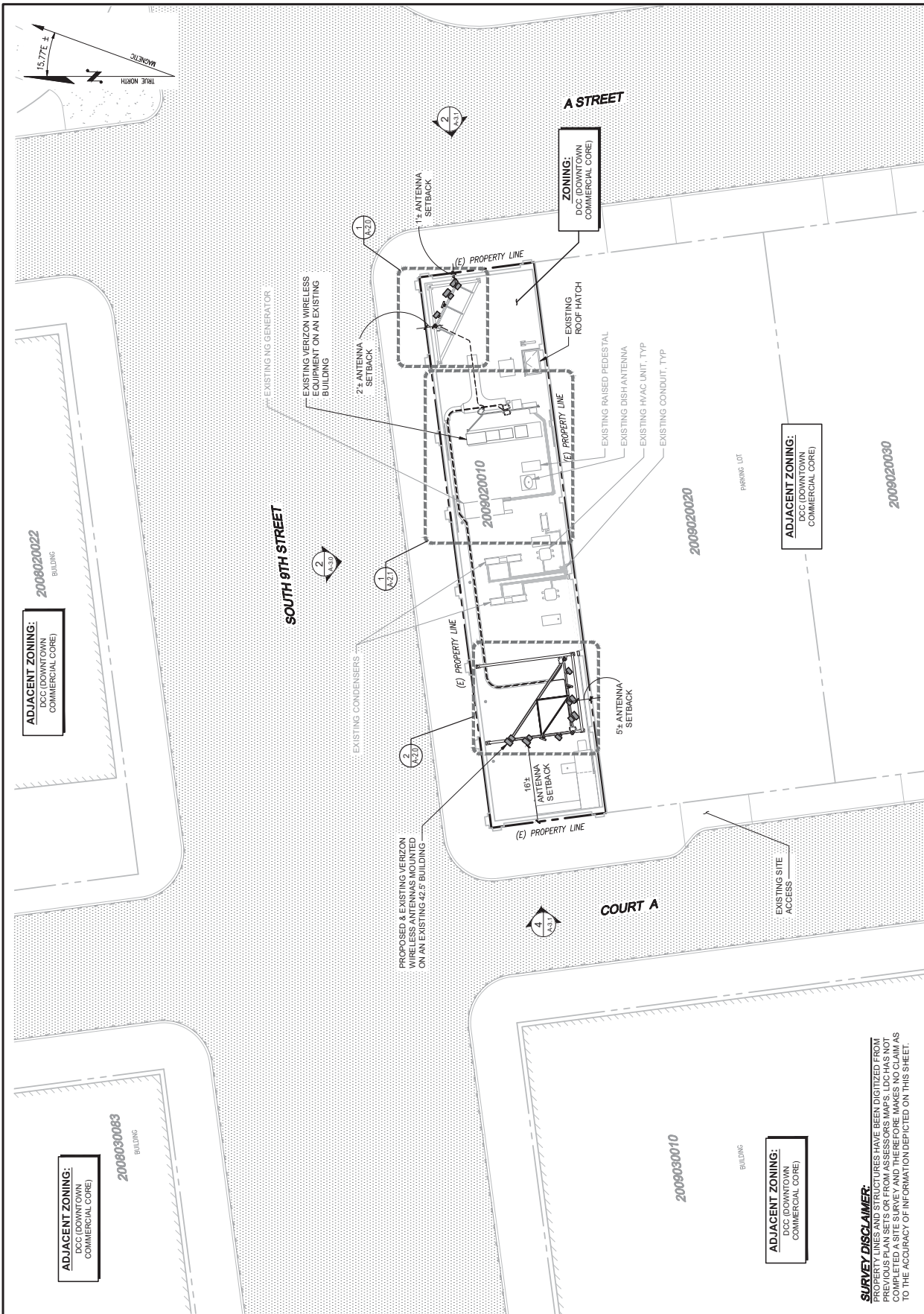
REV#	DATE	DESCRIPTION	BY
1	1.7.19	ISSUE FOR PERMITS	SRN
2	1.23.19	REVISED ZONING	SRN
3	2.25.19	REVISED UNITS PER BUILDING	LAL

APPROVAL STAMP

**SITE**  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

**SHEET TITLE**  
 SITE PLAN

**SHEET NUMBER**  
 A-1.0



**SITE PLAN**  
 1

22" x 34" SCALE: 1" = 10'  
 11" x 17" SCALE: 1" = 20'

**SURVEY DISCLAIMER:**  
 PROPERTY LINES AND STRUCTURES HAVE BEEN DIGITIZED FROM  
 AN ANALOG SURVEY. THE SURVEYOR HAS CONDUCTED A VISUAL  
 CHECK OF THE DIGITIZED DATA AND HAS THEREFORE MADE NO CLAIM AS  
 TO THE ACCURACY OF INFORMATION DEPICTED ON THIS SHEET.



DATE: 1/7/19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

SUBMITTALS	
REV	DESCRIPTION
1	ISSUE FOR PERMITS
2	3/13/19 FINAL ZONING
3	7/23/19 REDESIGNATE EQUIPMENT
4	LAJ
5	LAJ



APPROVAL STAMP

SITE  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

SHEET TITLE  
 ENLARGED ANTENNA PLAN

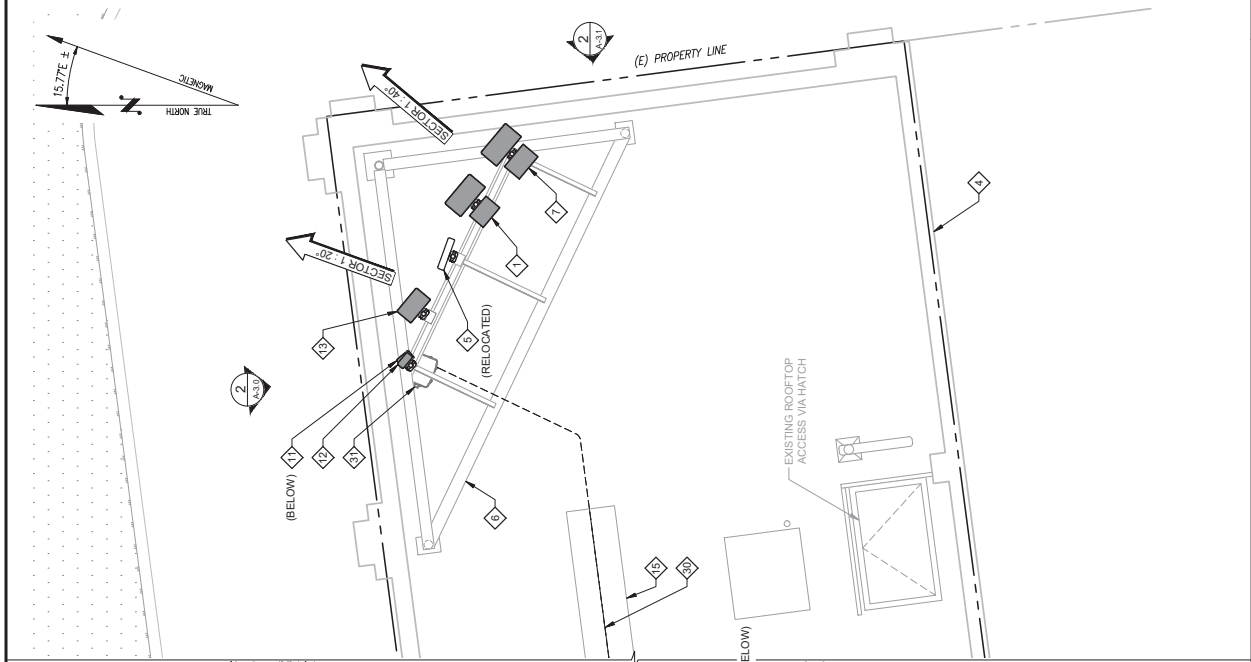
SHEET NUMBER  
 A-2.0

**CONSTRUCTION PLAN KEYED NOTES**

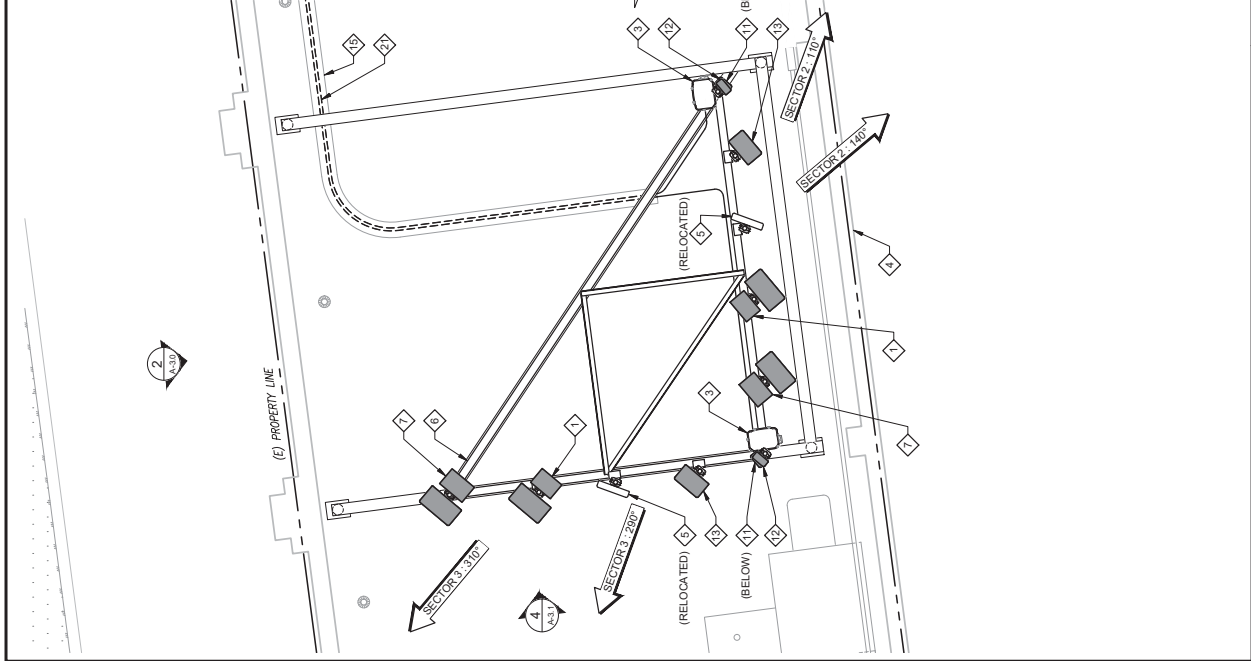
- 1 PROPOSED VERIZON WIRELESS RRUS  
 4449 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 2 PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION  
 OVP-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 3 EXISTING 42.5' BUILDING (TO REMAIN).
- 4 EXISTING VERIZON WIRELESS PANEL ANTENNA  
 (TYP 1 PER SECTOR, 3 TOTAL TO REMAIN).
- 5 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT  
 (TO REMAIN), (RECONFIGURED PER STRUCTURAL).
- 6 PROPOSED VERIZON WIRELESS RRUS 8843 UNIT  
 (TYP 1 PER SECTOR, 3 TOTAL).
- 7 PROPOSED VERIZON WIRELESS 2208 COMBINED  
 ANTENNA/RRU (TYP 1 PER SECTOR, 3 TOTAL).
- 8 PROPOSED VERIZON WIRELESS AIR/ETH 5G  
 PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL).
- 9 PROPOSED VERIZON WIRELESS PANEL  
 ANTENNA (TYP 3 PER SECTOR, 9 TOTAL).
- 10 EXISTING VERIZON WIRELESS CABLE TRAY (TO REMAIN).
- 11 PROPOSED VERIZON WIRELESS HYBRID CABLE TO ANTENNAS (2 TOTAL).  
 SEE CABLE LENGTH SCHEDULE ON RF-1.0.
- 12 EXISTING VERIZON WIRELESS HYBRID CABLE TO ANTENNAS  
 (1 TOTAL TO REMAIN).
- 13 EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX  
 (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).

**SITE NOTES**

1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
2. ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED  
 BY A LICENSED STRUCTURAL ENGINEER.
3. PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE  
 NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.



**ENLARGED ANTENNA PLAN - SECTOR 1**  
 22'-3/4" SCALE: 3/8" = 1'-0" 11x17" SCALE: 3/16" = 1'-0"



**ENLARGED ANTENNA PLAN - SECTOR 2 & 3**  
 22'-3/4" SCALE: 3/8" = 1'-0" 11x17" SCALE: 3/16" = 1'-0"



**LDC** Surveying & Engineering  
 Planning  
 1000 1st Avenue NE  
 Seattle, WA 98109  
 Phone: (206) 467-1111  
 Fax: (206) 467-1112  
 www.ldcgroup.com

DATE: 1/7/19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

REV	DATE	DESCRIPTION	BY
1	1/7/19	ISSUE FOR PERMITS	SRN
2	1/13/19	REVISED PERMITS	SRN
3	7/23/19	REVISED PERMITS FOR REVISED ILL	SRN



APPROVAL STAMP

SITE  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

SHEET TITLE  
 ENLARGED EQUIPMENT PLAN

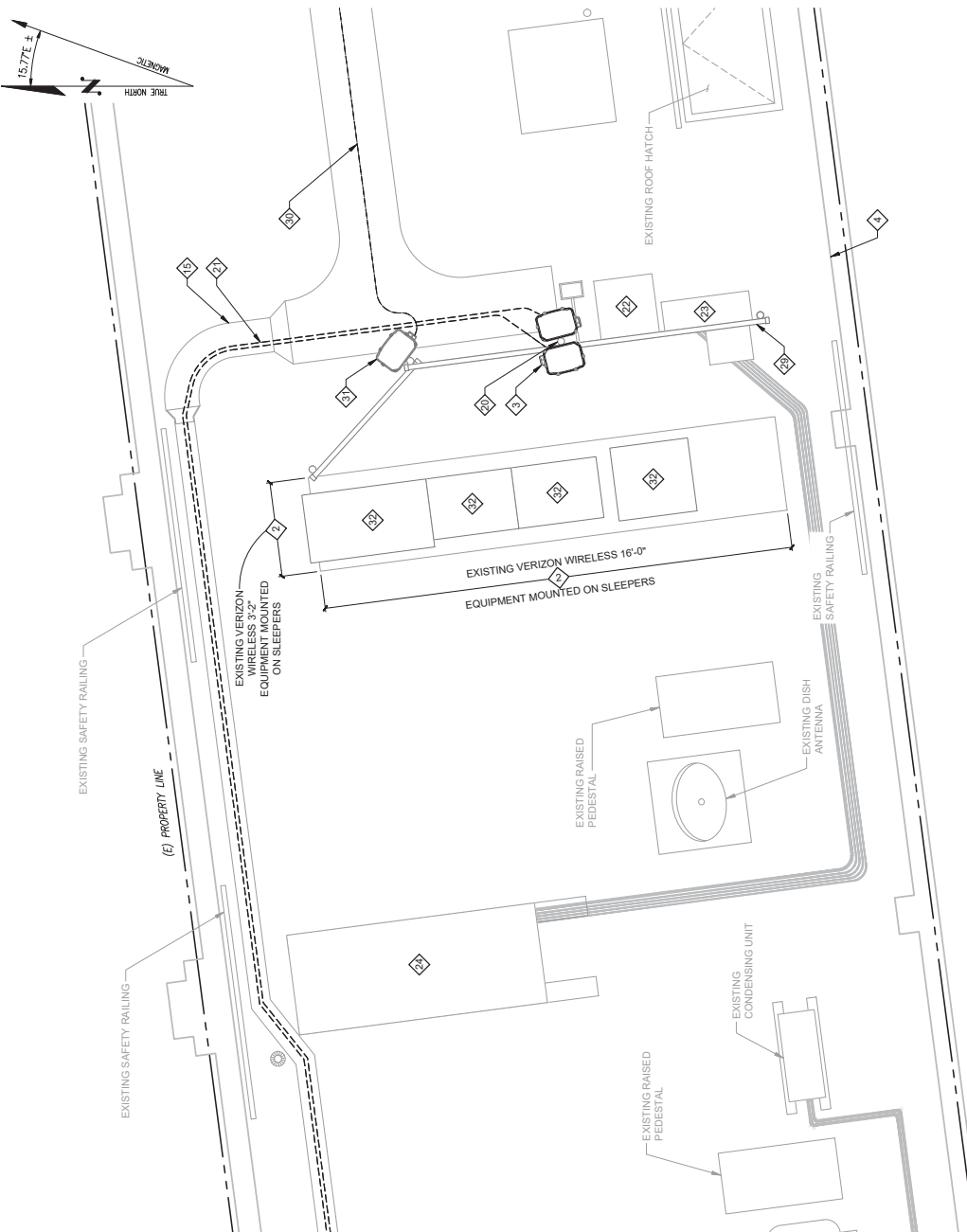
SHEET NUMBER  
 A-2.1

**CONSTRUCTION PLAN KEYED NOTES**

- 20 EXISTING VERIZON WIRELESS ROOFTOP EQUIPMENT MOUNTED ON SLEEPERS (TO REMAIN).
- 21 PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION OVP-P-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 22 EXISTING 42.5' BUILDING (TO REMAIN).
- 23 EXISTING VERIZON WIRELESS CABLE TRAY (TO REMAIN).
- 24 EXISTING VERIZON WIRELESS GPS ANTENNA (TO REMAIN).
- 25 PROPOSED VERIZON WIRELESS HYBRID CABLE TO ANTENNAS (2 TOTAL) SEE CABLE LENGTH SCHEDULE ON RF-1.0.
- 26 EXISTING VERIZON WIRELESS TELCO FIBER CABINET (TO REMAIN).
- 27 EXISTING VERIZON WIRELESS ILC CABINET (TO REMAIN).
- 28 EXISTING VERIZON WIRELESS GENERATOR (TO REMAIN).
- 29 EXISTING VERIZON WIRELESS UTILITY H-FRAME (TO REMAIN).
- 30 EXISTING VERIZON WIRELESS HYBRID CABLE TO ANTENNAS (1 TOTAL TO REMAIN).
- 31 EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).
- 32 EXISTING VERIZON WIRELESS EQUIPMENT CABINET (4 TOTAL TO REMAIN).

**SITE NOTES**

- 1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
- 2. ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED BY A LICENSED STRUCTURAL ENGINEER.
- 3. PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.



**ENLARGED EQUIPMENT PLAN**

1

22"x36" SCALE: 1/2" = 1'-0" 11"x17" SCALE: 1/4" = 1'-0"



DATE: 1-7-19  
 DRAWN BY: SRN  
 CHECKED BY: RBH

REV	DATE	DESCRIPTION
1	1-7-19	ISSUE FOR PERMITS
2	1-13-19	REVISED PERMITS
3	1-23-19	REVISED PERMITS



APPROVAL STAMP

SITE  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

SHEET TITLE  
 ELEVATIONS

SHEET NUMBER  
 A-3.0

**CONSTRUCTION PLAN KEYED NOTES**

- 1 PROPOSED VERIZON WIRELESS RRUS  
 4449 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 2 PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION  
 OVP-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 3 EXISTING 42.5' BUILDING (TO REMAIN).
- 4 EXISTING VERIZON WIRELESS PANEL ANTENNA  
 (TYP 1 PER SECTOR, 3 TOTAL TO REMAIN).
- 5 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT  
 (TO REMAIN), (RECONFIGURED PER STRUCTURAL).
- 6 PROPOSED VERIZON WIRELESS RRUS 8843 UNIT  
 (TYP 1 PER SECTOR, 3 TOTAL).
- 7 PROPOSED VERIZON WIRELESS 2208 COMBINED  
 ANTENNA/RRU (TYP 1 PER SECTOR, 3 TOTAL).
- 8 PROPOSED VERIZON WIRELESS AIR/701 5G  
 PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL).
- 9 PROPOSED VERIZON WIRELESS PANEL  
 ANTENNA (TYP 3 PER SECTOR, 9 TOTAL).

- 10 EXISTING VERIZON WIRELESS PANEL ANTENNA  
 (TYP 3 PER SECTOR, 9 TOTAL TO BE REPLACED).

- 11 EXISTING VERIZON WIRELESS GPS ANTENNA (TO REMAIN).

- 12 EXISTING VERIZON WIRELESS GENERATOR (TO REMAIN).

- 13 EXISTING VERIZON WIRELESS RRUS UNIT (TYP 2 PER SECTOR,  
 6 TOTAL TO BE REPLACED).

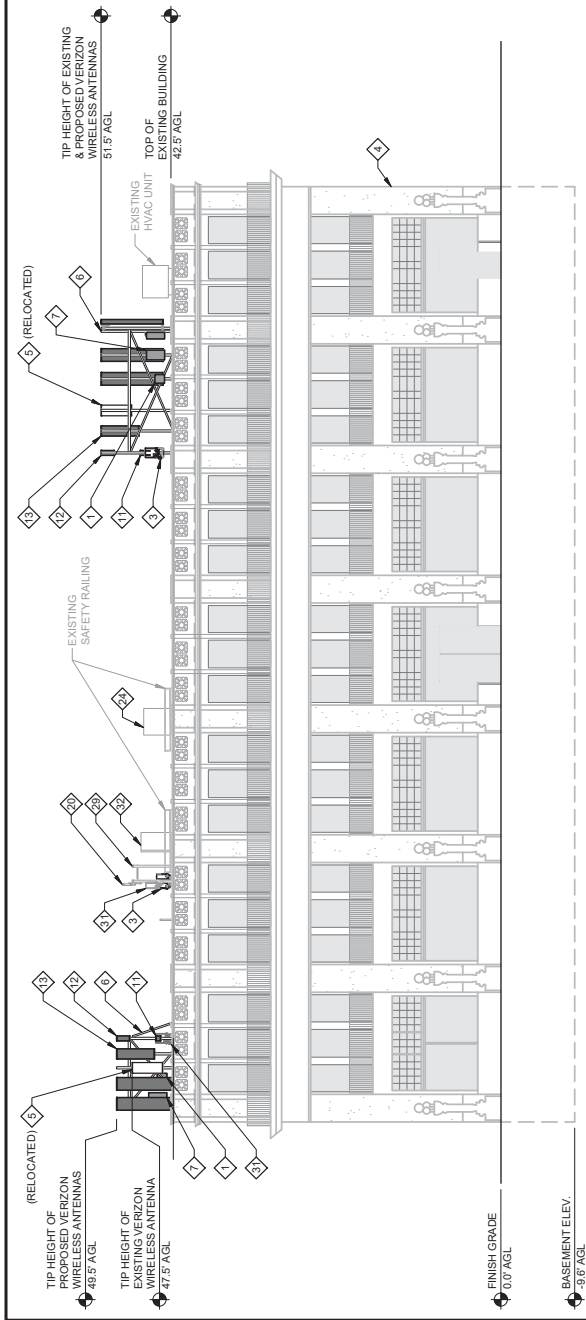
- 14 EXISTING VERIZON WIRELESS UTILITY H-FRAME (TO REMAIN).

- 15 EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX  
 (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).

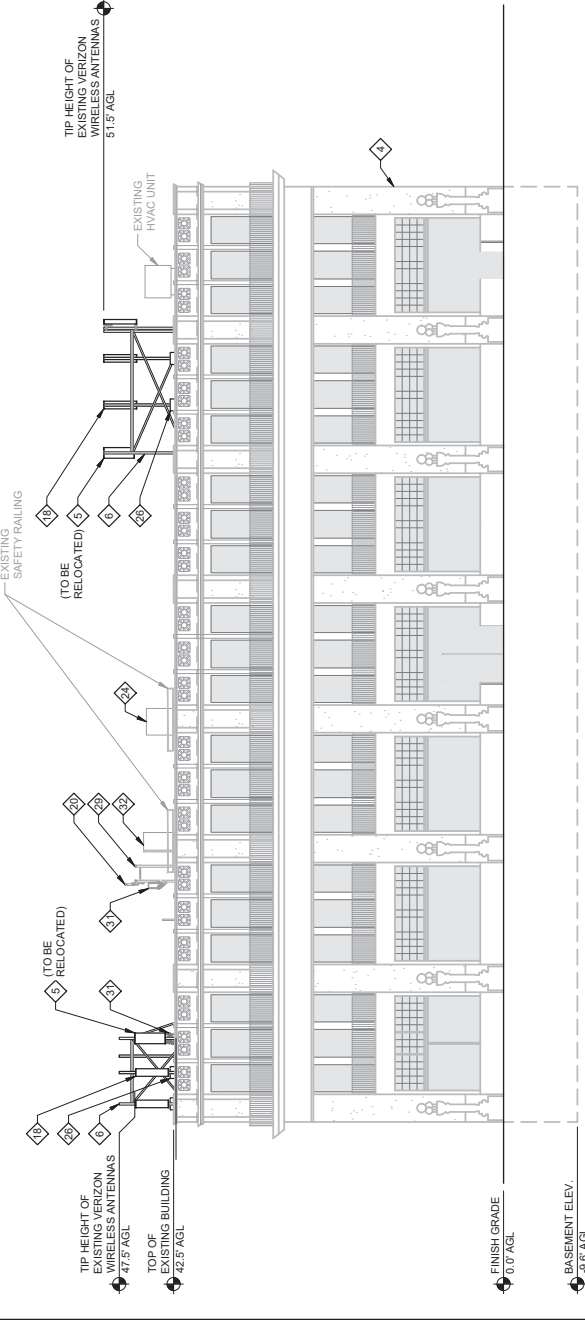
- 16 EXISTING VERIZON WIRELESS EQUIPMENT CABINET (4 TOTAL TO REMAIN).

**SITE NOTES**

- 1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
- 2. ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED  
 BY A LICENSED STRUCTURAL ENGINEER.
- 3. PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE  
 NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.



**PROPOSED NORTH ELEVATION (LOOKING SOUTH)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"



**EXISTING NORTH ELEVATION (LOOKING SOUTH)**  
 22'x34' SCALE: 1/8" = 1'-0" 11'x17' SCALE: 1/16" = 1'-0"

REV	DATE	DESCRIPTION
1	1-7-19	ISSUE FOR PERMITS
2	1-13-19	PERMITS ZONING
3	1-23-19	REDESIGN UPDATE PER PERMITS



APPROVAL STAMP

**SITE**  
 T18455  
 TAC WHEELER 4G & 5G  
 100 S. 9TH STREET  
 TACOMA, WA 98402

**SHEET TITLE**  
 ELEVATIONS

**SHEET NUMBER**  
 A-3.1

**CONSTRUCTION PLAN KEYED NOTES**

- 1 PROPOSED VERIZON WIRELESS RRUS 4449 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 2 PROPOSED VERIZON WIRELESS RAYCAP DISTRIBUTION OVP-6 BOX (4 TOTAL, 2 @ ANTENNAS AND 2 @ EQUIPMENT).
- 3 EXISTING 42.5 BUILDING (TO REMAIN).
- 4 EXISTING VERIZON WIRELESS PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL TO REMAIN).
- 5 EXISTING VERIZON WIRELESS ROOFTOP ANTENNA MOUNT (TO REMAIN), (RECONFIGURED PER STRUCTURAL).
- 6 PROPOSED VERIZON WIRELESS RRUS 8843 UNIT (TYP 1 PER SECTOR, 3 TOTAL).
- 7 PROPOSED VERIZON WIRELESS 2208 COMBINED ANTENNA/RRU (TYP 1 PER SECTOR, 3 TOTAL).
- 8 PROPOSED VERIZON WIRELESS AIR/701 5G PANEL ANTENNA (TYP 1 PER SECTOR, 3 TOTAL).
- 9 PROPOSED VERIZON WIRELESS PANEL ANTENNA (TYP 3 PER SECTOR, 9 TOTAL).

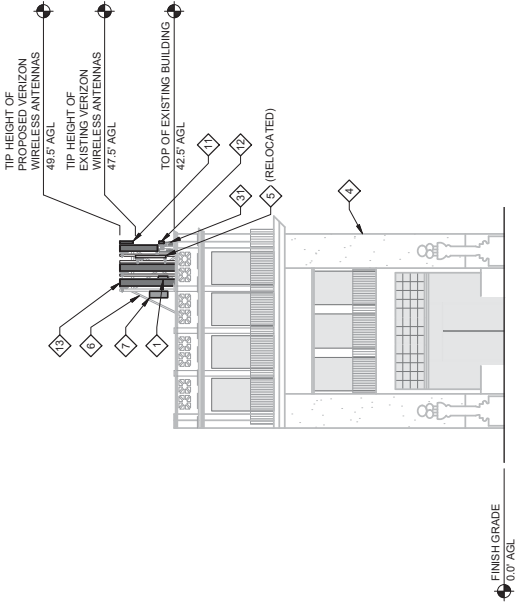
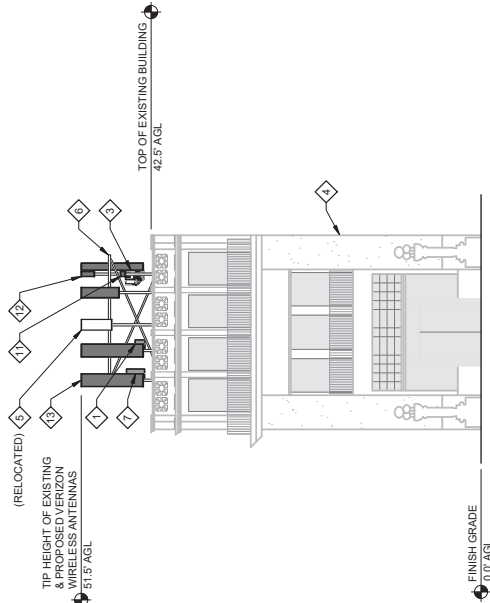
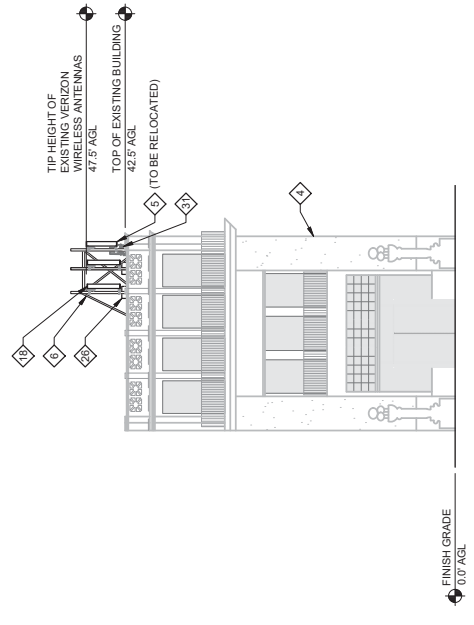
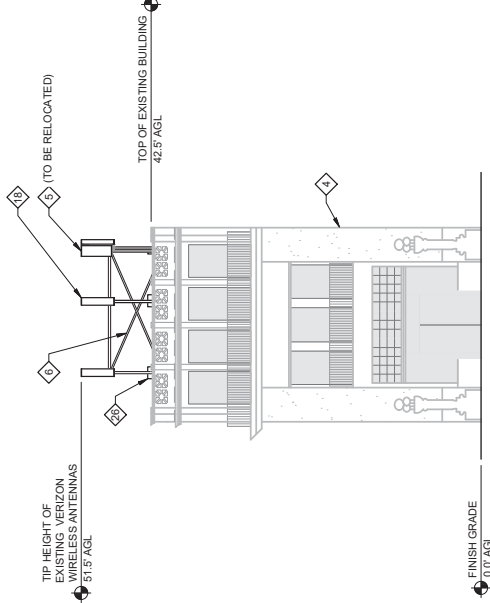
- 10 EXISTING VERIZON WIRELESS PANEL ANTENNA (TYP 3 PER SECTOR, 9 TOTAL TO BE REPLACED).

- 20 EXISTING VERIZON WIRELESS RRUS UNIT (TYP 2 PER SECTOR, 6 TOTAL TO BE REPLACED).

- 30 EXISTING VERIZON WIRELESS RAYCAP DISTRIBUTION OVP BOX (2 TOTAL TO REMAIN, 1 @ ANTENNAS AND 1 @ EQUIPMENT).

**SITE NOTES**

- 1. VERIFY ANTENNA MODEL, TIP HEIGHT & AZIMUTHS.
- 2. ANALYSIS OF BUILDING SHALL BE PERFORMED BY LDC & STAMPED BY A LICENSED STRUCTURAL ENGINEER.
- 3. PROPOSED ANTENNAS, EQUIPMENT AND MOUNTING HARDWARE NEAR ANTENNA LEVEL SHALL BE PAINTED TO MATCH EXISTING.







# Landmarks Preservation Commission

Planning and Development Services Department



747 Market Street | Room 345 | Tacoma WA 98402-3793 | 253.591.5220

## APPLICATION FOR DESIGN REVIEW

Permit Number: HDR20-0001

### PROPERTY INFORMATION

<b>Building/Property Name:</b>	new garage (BLDRN19-0274 - new garage)
<b>Building/Property Address:</b>	603 N AINSWORTH AVE
<b>Historic/Conservation District:</b>	North Slope
<b>Applicant's Name:</b>	R4construction
<b>Applicant's Address:</b>	p.o. box 7968 tacoma, WA 98417
<b>Applicant's Phone:</b>	2532679759
<b>Applicant's Email:</b>	sarork@msn.com
<b>Property Owner's Name:</b>	RUSSELL DON R & BARBARA A
<b>Property Owner's Address:</b>	

### PROJECT SCOPE AND DESCRIPTION

#### Project Details

<b>Application Type:</b>	Residential
<b>Type of Work:</b>	Detached Garage
<b>Estimated Valuation:</b>	25000

#### Application Checklist

<b>Features to be Modified:</b>
---------------------------------

**Program of Work:**

**Specifications of Materials and Finishes:**

new cedar lap siding, corner boards and fascia.

## Building/Roofing Information

**Roof Height:** 17  
**Roof Pitch:** 812  
**Roof Material:** 3 tab asphalt  
**Size of Construction:** 650sq ft.

**Proposed Material:**  
clear cedar lap siding

**Exterior Material:**  
Clear cedar siding and trim

## Window Information

**Window Types:**  
single hung

**Window Trim:**  
clear cedar

**Window Material:**  
vinyl

**Window Locations:**  
back yard side

## Door Information

**Door Types:**  
VG Fir 1/2 light man door  
18ft over head door

**Door Materials:**  
VG Fir man door

**Door Locations:**  
man door rear side  
over head alley access

**Sign/Awning Information**

**Existing Signage:** No

**Sign Dimensions:**

**Sign Material:**

**Logo and Letter Size:**

**Lighting Specifications:**

**Removing or Relocating Signage:**

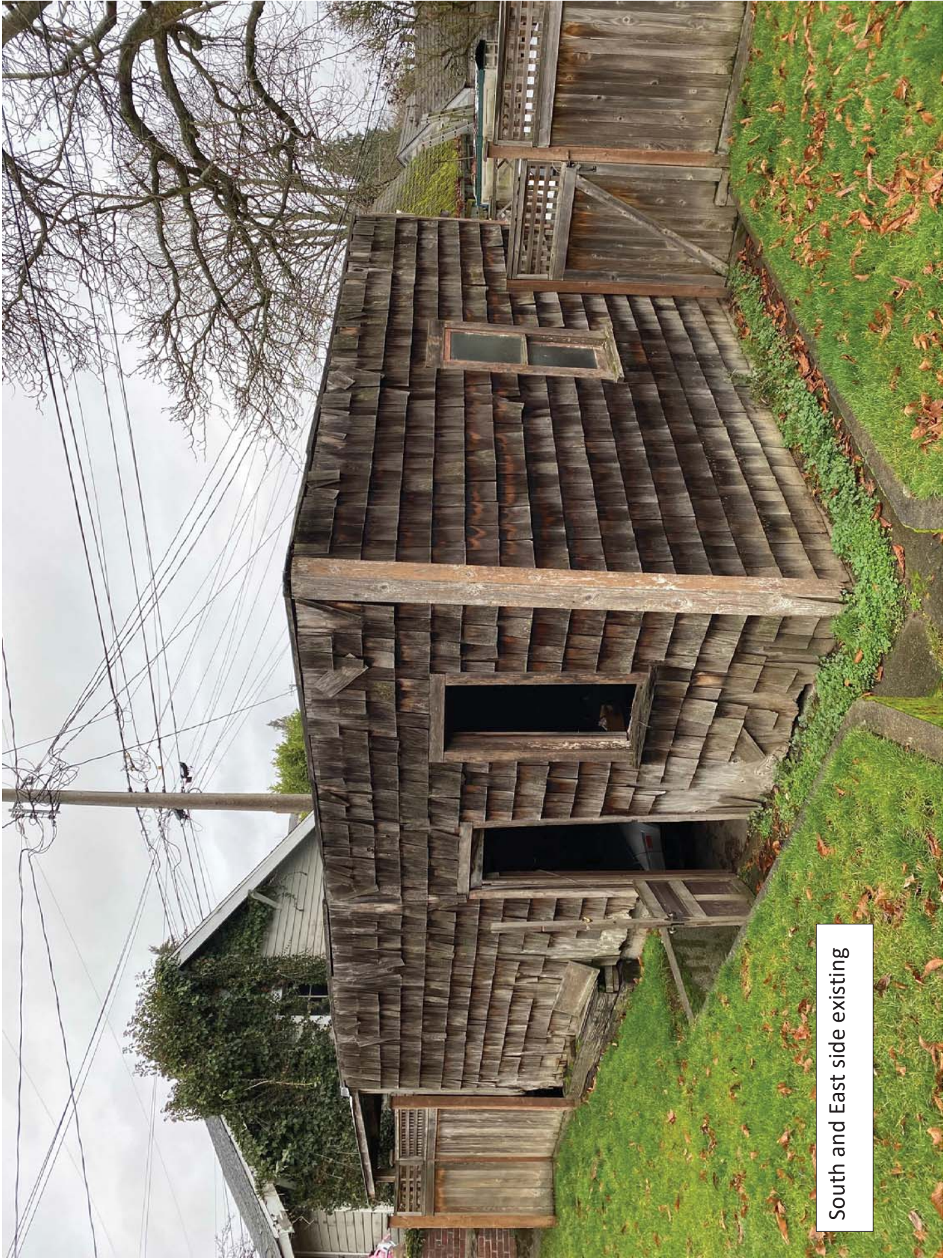
**Method of Attachment:**



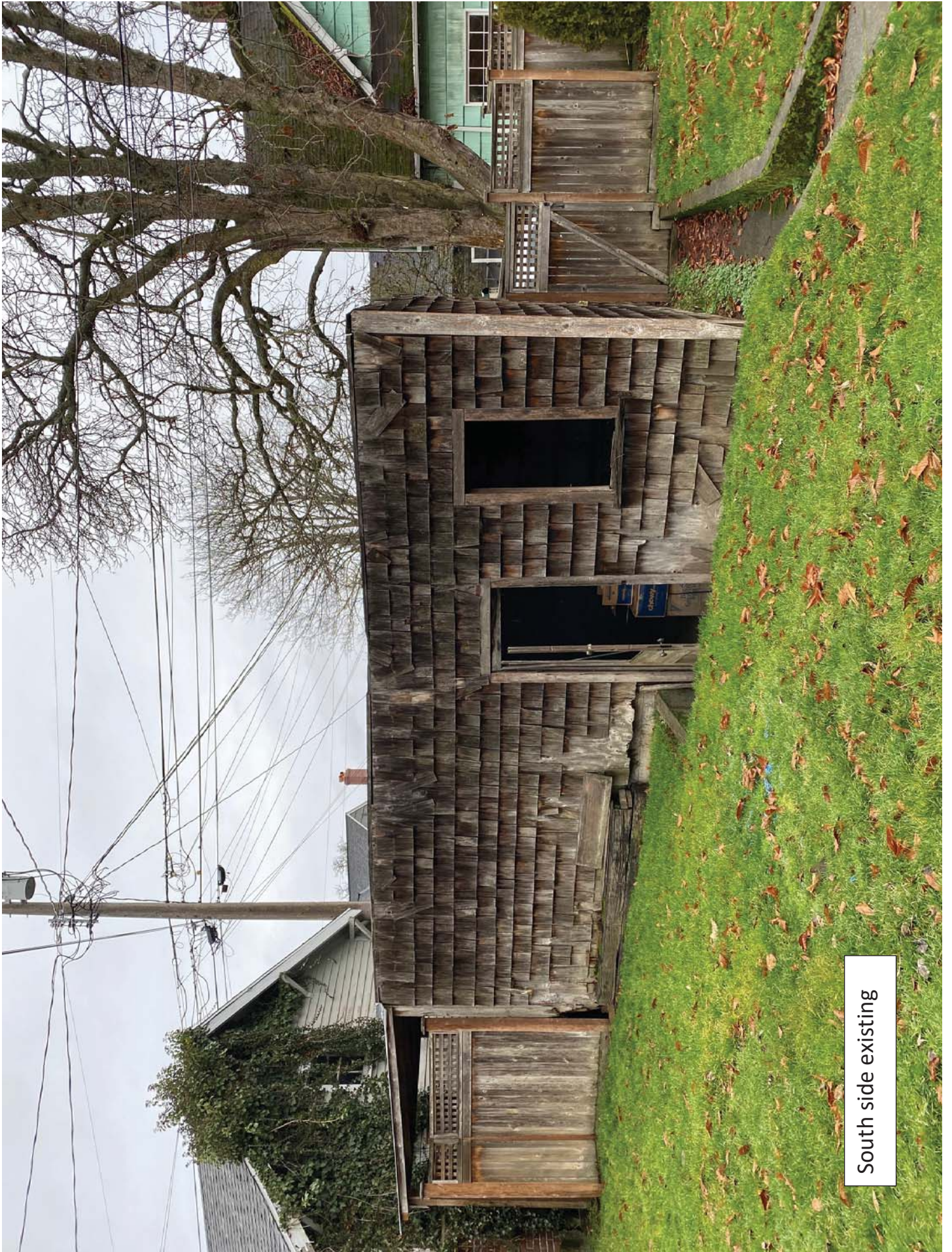
Adjacent garage  
21' above grade



Alley side (North) existing



South and East side existing



South side existing





Alley side (North) existing



NO.	DESCRIPTION	BY	DATE

SHEET TITLE:  
Site plan

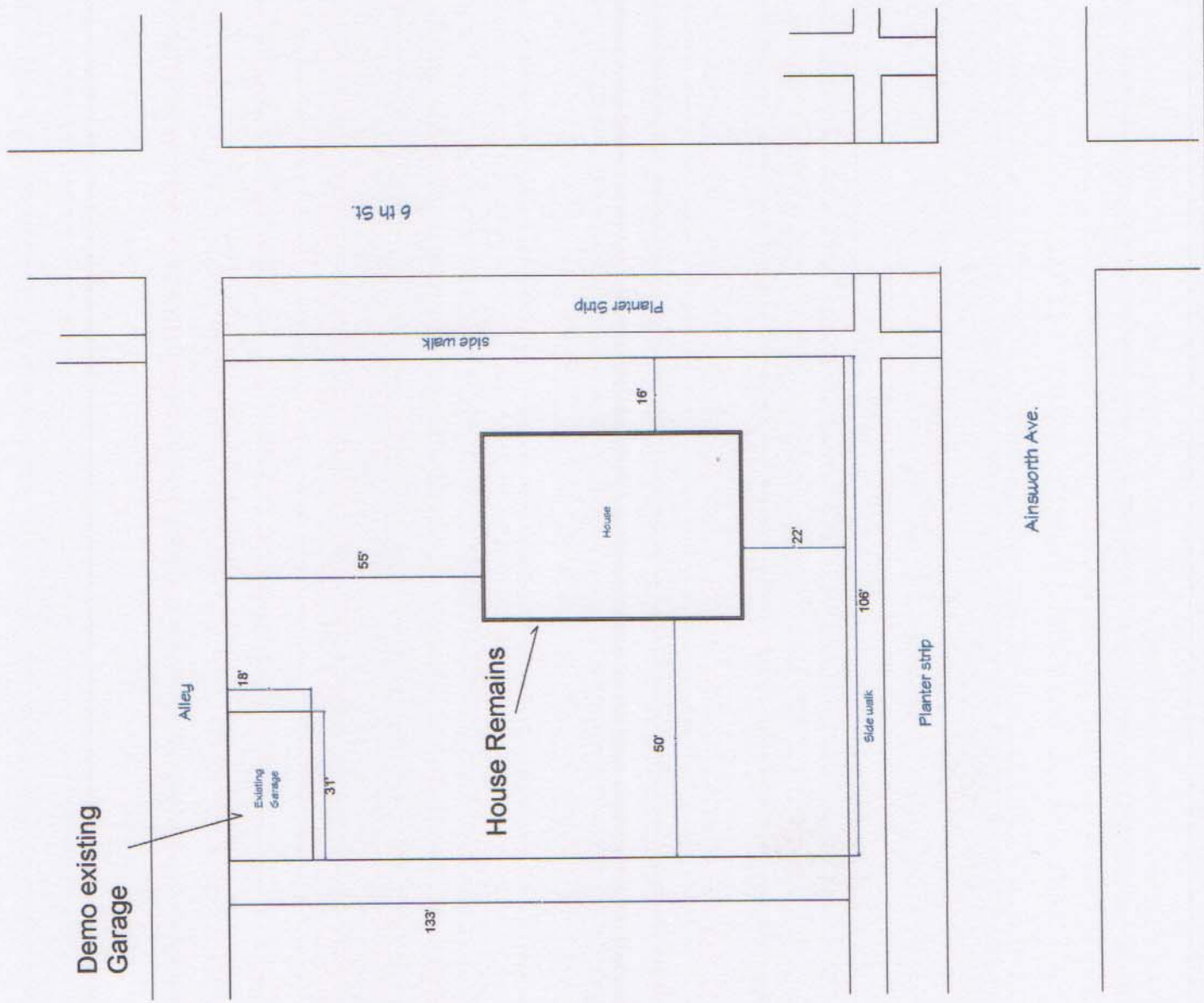
PROJECT DESCRIPTION:  
Russell Garage  
603 N. Ainsworth Ave  
Tacoma WA, 98406

DRAWINGS PROVIDED BY:  
R4 Construction  
253-267-9759

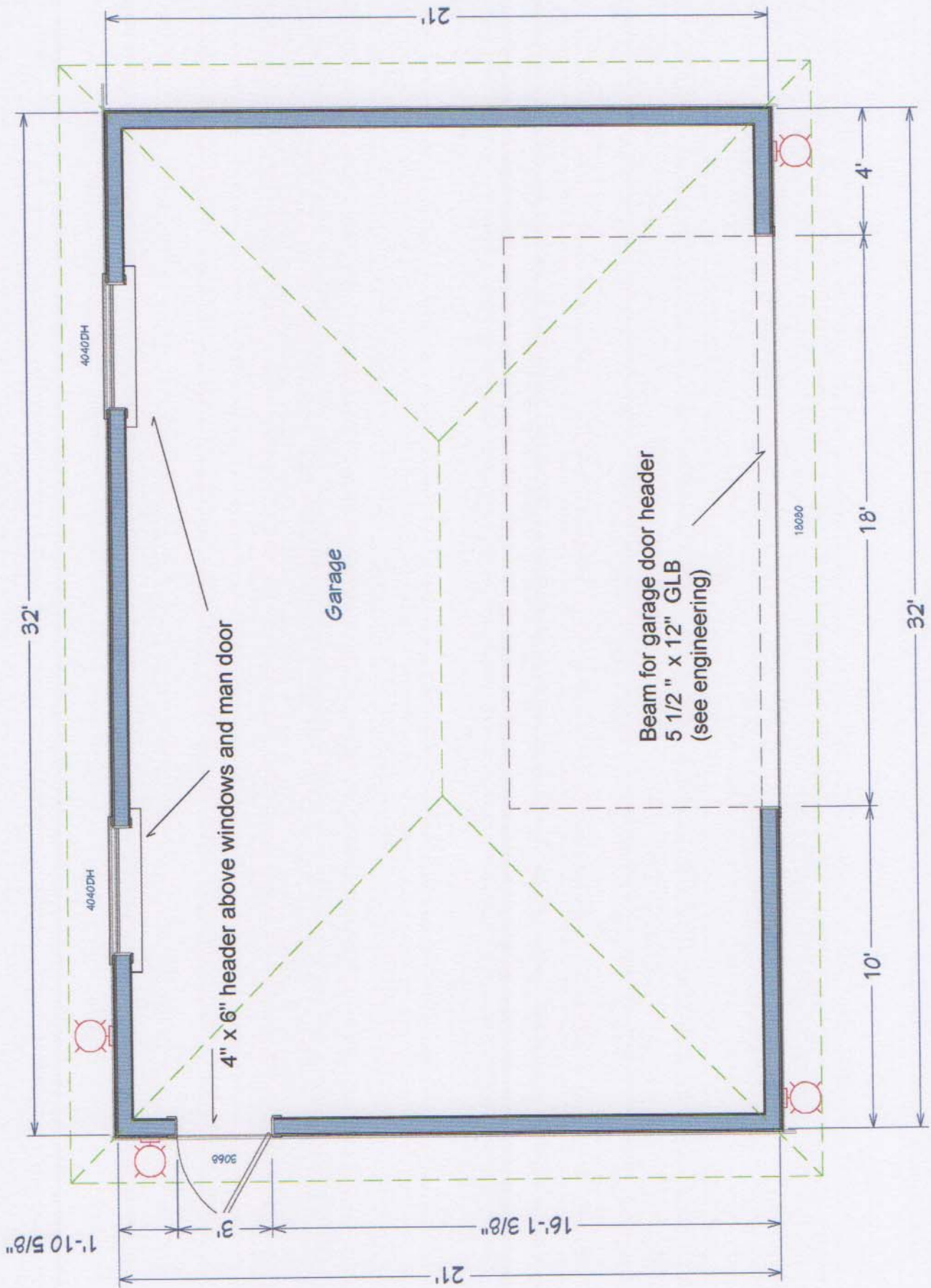
DATE:

SCALE:

SHEET:  
A-1



NO.	DESCRIPTION	BY	DATE

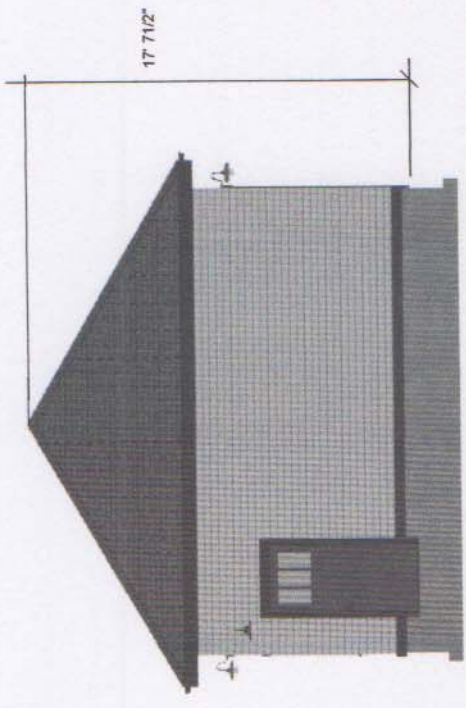


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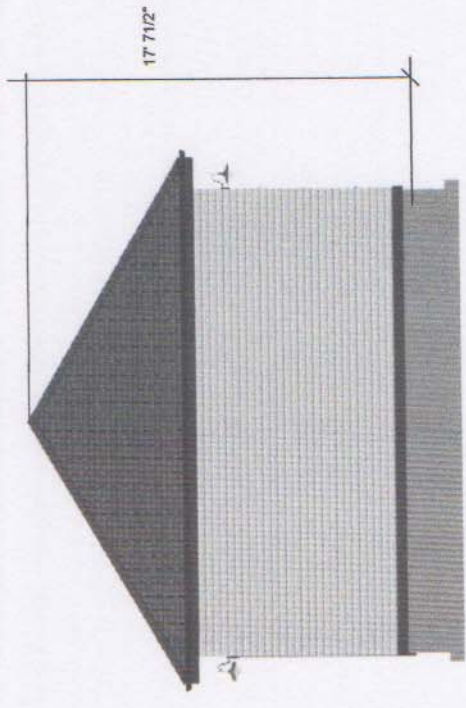


R4 CONSTRUCTION  
1700 100th Ave SW  
Burien WA 98148  
253-861-7000

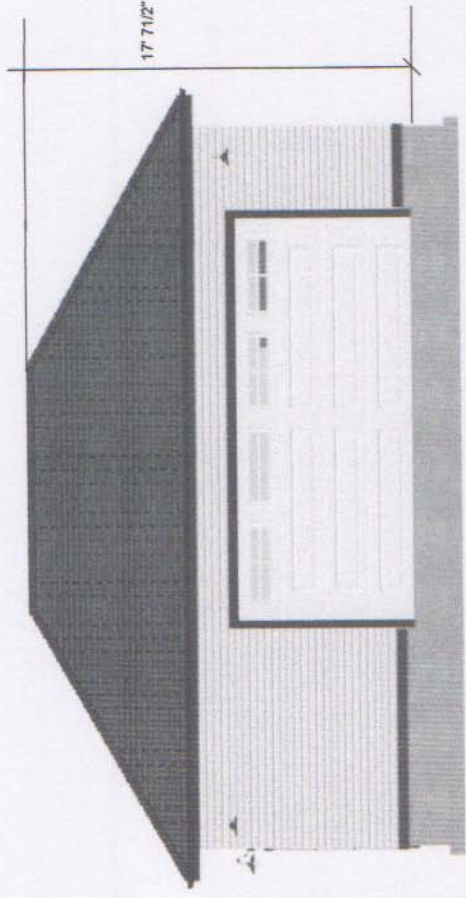
EAST ELEVATION



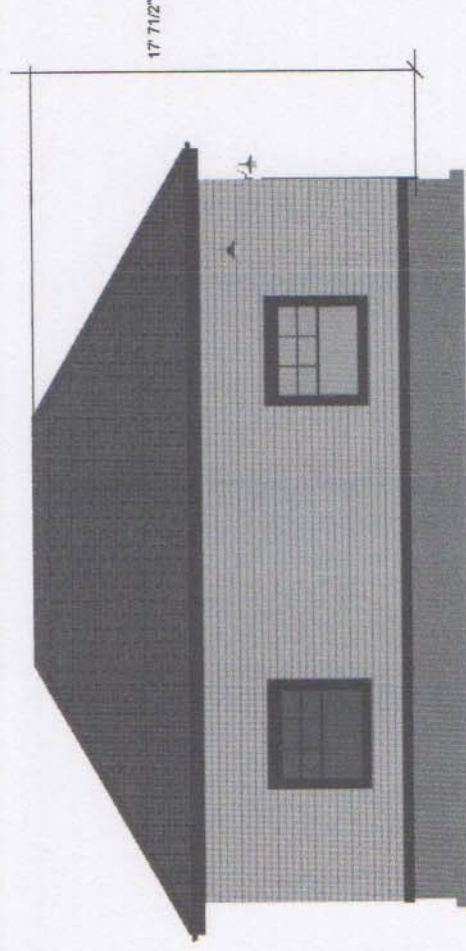
WEST ELEVATION

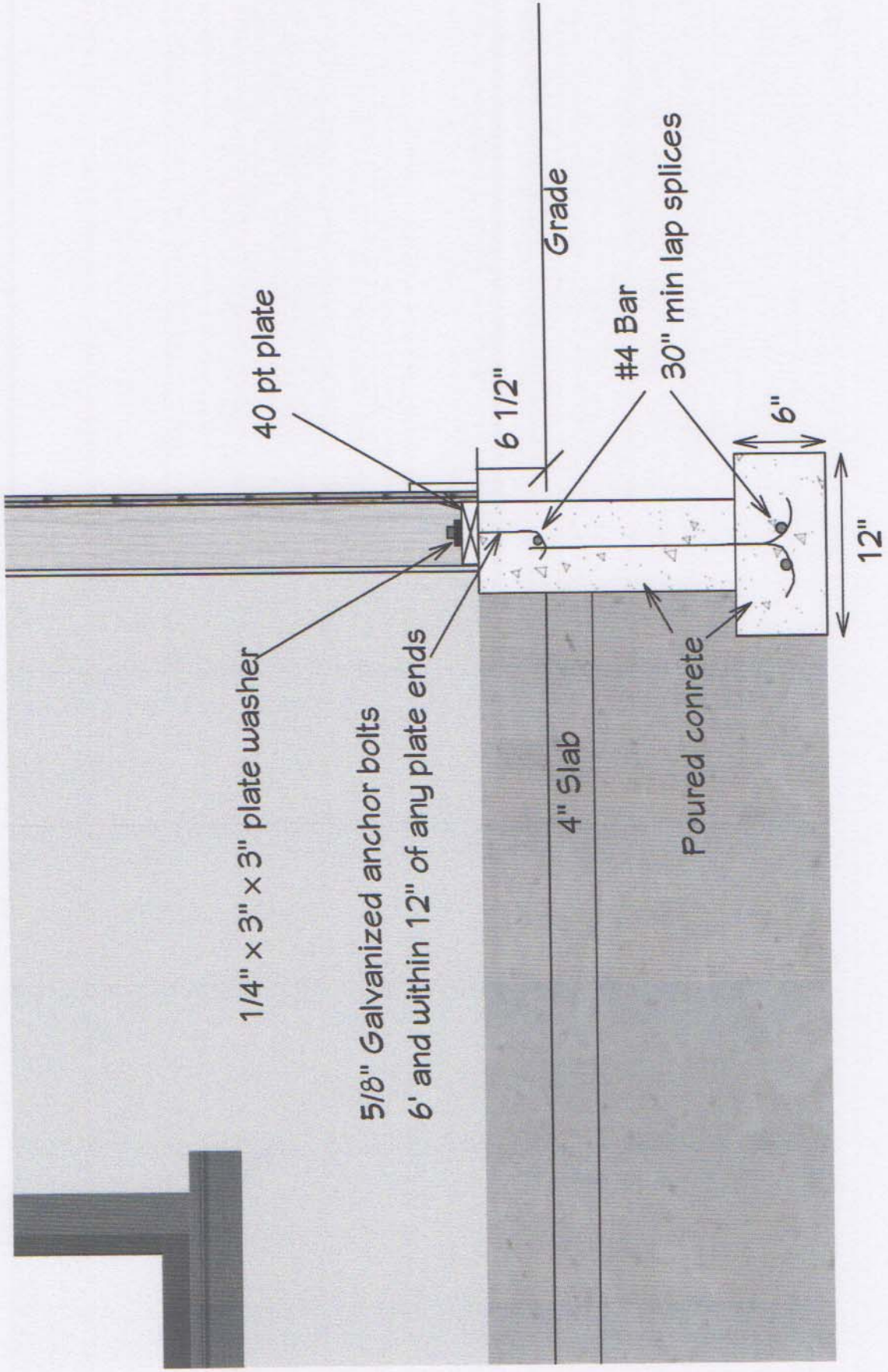


NORTH ELEVATION



SOUTH ELEVATION





40 pt plate

1/4" x 3" x 3" plate washer

5/8" Galvanized anchor bolts  
6' and within 12" of any plate ends

Grade

4" Slab

#4 Bar

30" min lap splices

Poured concrete

6 1/2"

6"

12"

Foundation

PROJECT DESCRIPTION:  
Russell Garage  
603 N. Almsworth Ave.  
Tacoma WA 98706

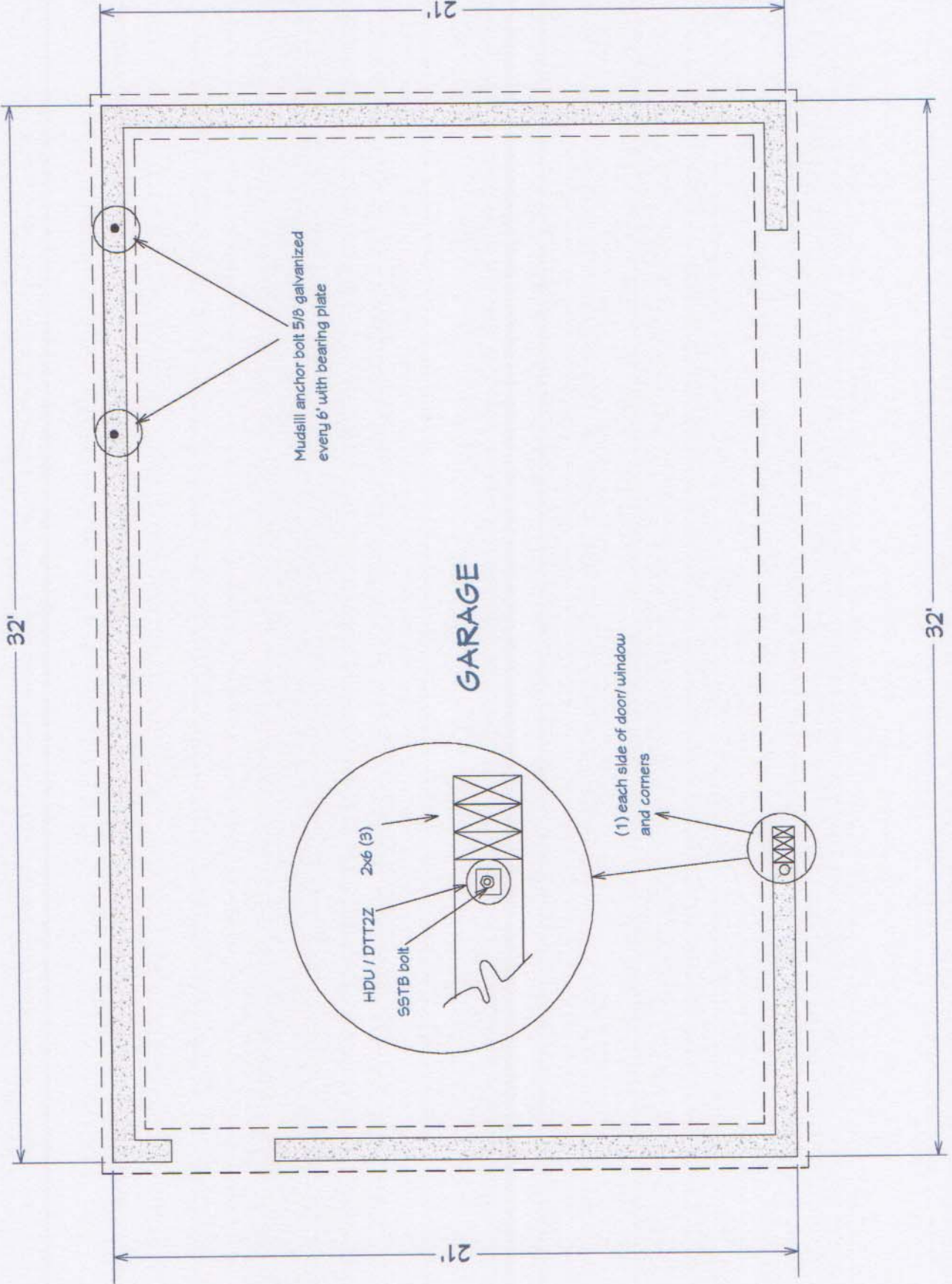
DRAWINGS PROVIDED BY:  
R4 Construction  
253-267-9759

DATE:

SCALE:

SHEET:

A-5



R4 CONSTRUCTION  
253-267-9759  
TACOMA WA 98706

NO.	DESCRIPTION	BY	DATE

SHEET TITLE:



NO.	DESCRIPTION	BY	DATE

SHEET TITLE: **Roof Framing**

PROJECT DESCRIPTION:  
**Russell Garage**  
 603 VN. Ainsworth Ave.  
 Tacoma 98406

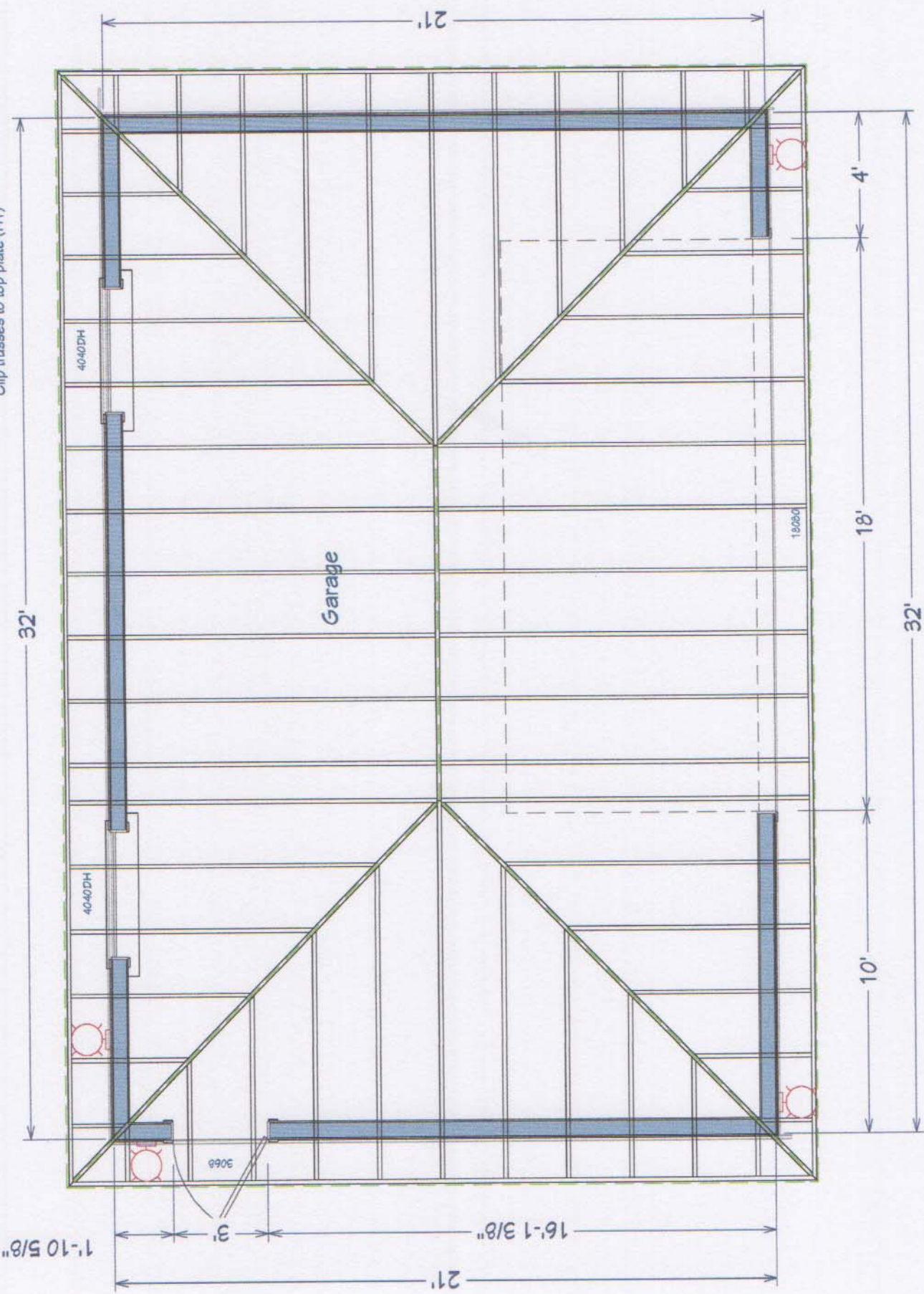
DRAWINGS PROVIDED BY:  
**R4 Construction**  
 253-267-9759

DATE:

SCALE:

SHEET:  
**A-6**

Engineer Trusses 24" on center  
 Walls 2x6 construction 16" OC  
 Headers over garage door (see engineering)  
 Double top plates  
 Clip trusses to top plate (H1)



1'-10 5/8"

3068

3'

16-1 3/8"

21'

32'

Garage

4040DH

4040DH

18060

18'

10'

32'

4'

21'

Wall section

PROJECT DESCRIPTION:  
Russell Garage  
603 N. Almsworth Ave  
Tacoma WA, 98406

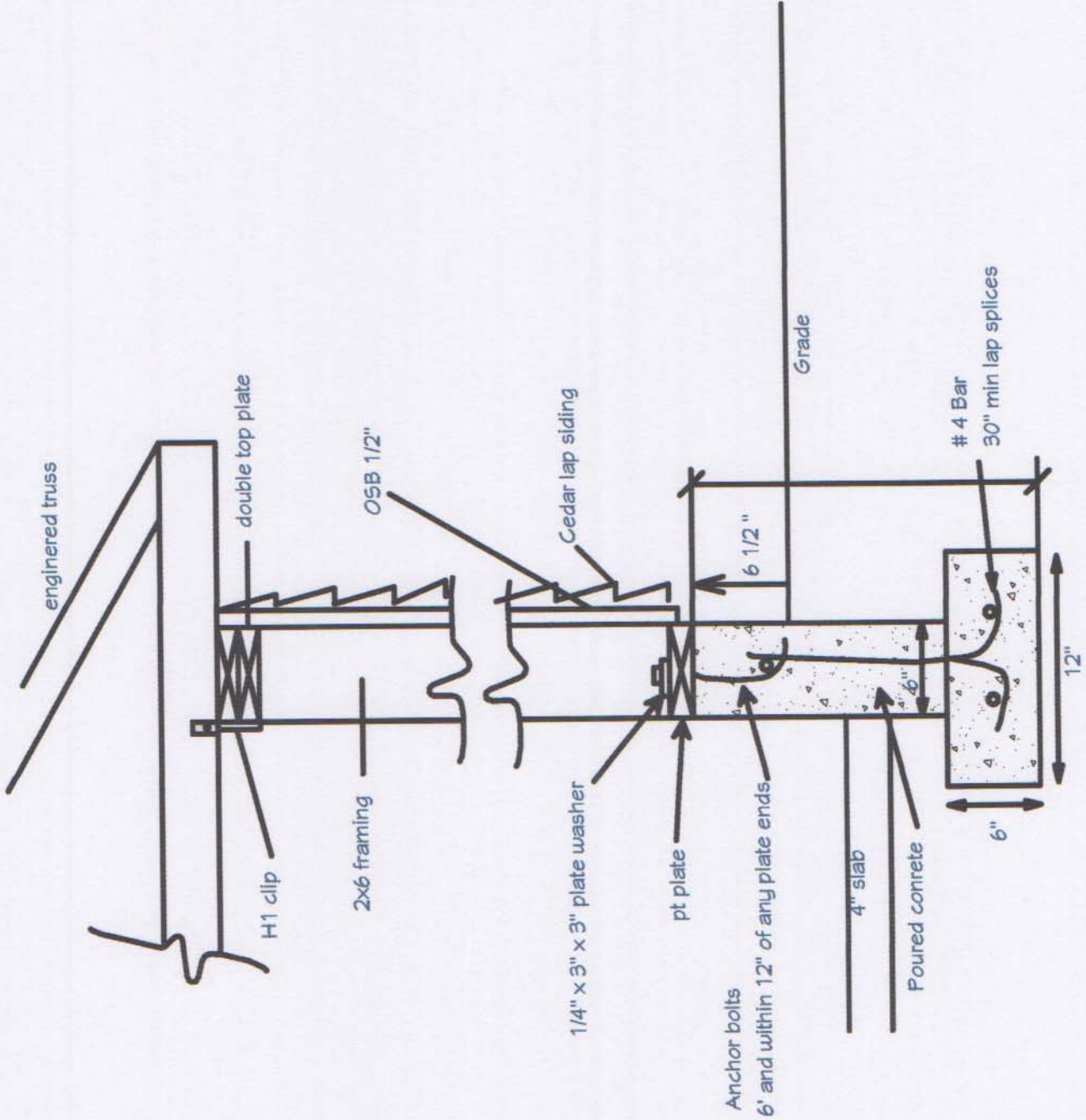
DRAWINGS PROVIDED BY:  
R4 Construction

DATE:

SCALE:

SHEET:

A-7



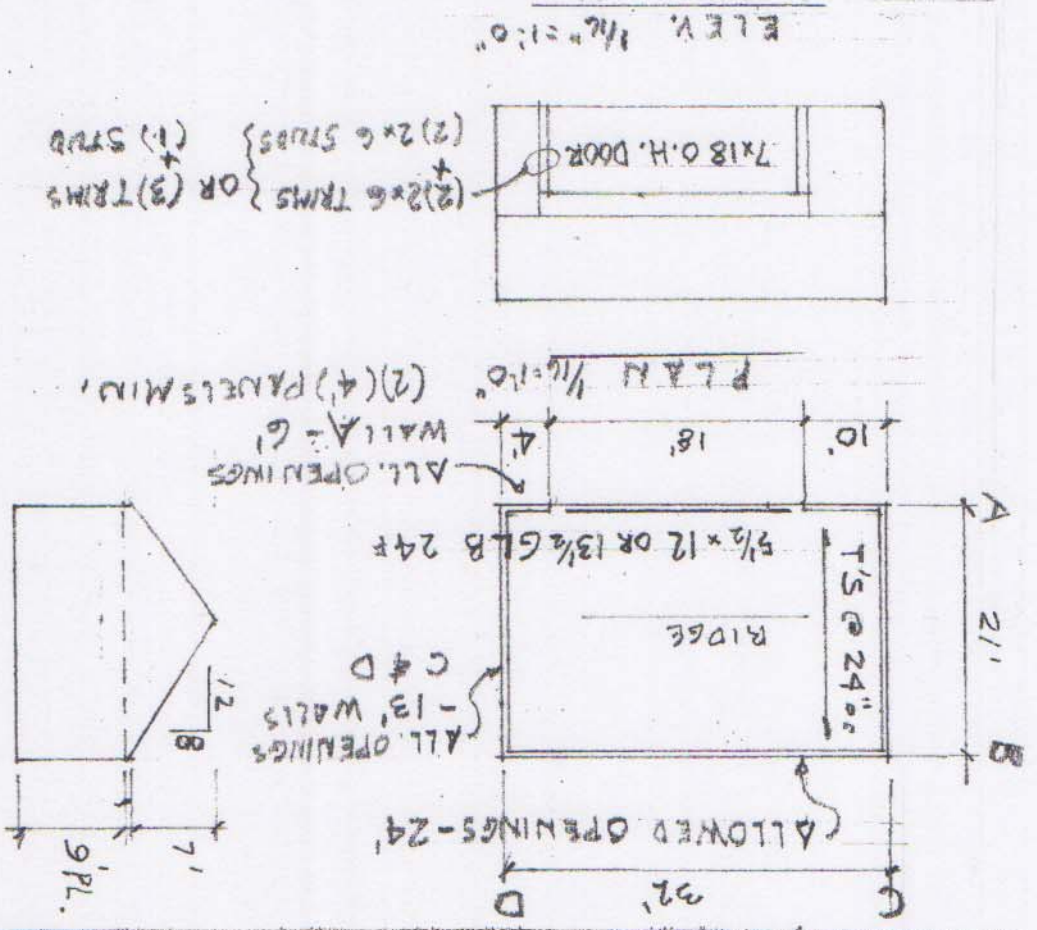




$(D.L + S) = 30 P.F.F. \times \frac{4}{3} = 40 \# \text{KIAL/STUD} = \frac{40}{1.5 \times 5.5} = 4.85 \text{ E.I.} / \text{800} = .007$   
 $S = \frac{13.3(9)^2}{12} = \frac{1.1 \text{ in.}^3}{2.868} = .146 + .007 = .153 \times 7 = (1) \text{ KING STUD}$   
 $9' \text{ 2x6 STUD @ 10 P.S.F. MIN. WIND} - 16'' \text{ OC} = 13.3 \text{ P.F.F.}$   
 $\text{BEARING 1 GRAIN: } (2) \text{ 2x6} = (2) \text{ 8.25} = 16.5'' > 10$   
 $R = 9 \times 450 = 4050 \# / 405 = 10 \text{ D}''$   
 $\frac{18 \times 12}{240} = .9 \text{ MM. } \Delta$

$S = 450 (18)^2 / 12 = 79,240 \text{ LBS}$   
 $I = 5(450)(18^4) / 1728 = 656,100 \text{ LBS} \cdot \text{in.}^4$   
 $\Delta = .9 \times 656,100 / 791,940 = 0.75 \text{ in.}$   
 $5 \frac{1}{2} \times 13 \frac{1}{2} \Delta = 0.52 \text{ in.}$   
 $5 \frac{1}{2} \times 12 \text{ GLB } 132,100 \text{ LBS}$   
 $5 \frac{1}{2} \times 13 \frac{1}{2} \Delta = 0.52 \text{ in.}$   
 $18' \text{ BEAM: } W = 10.5 \times (25 \text{ P.S.F. SNOW} + 15 \text{ P.S.F. DL}) = 420 \text{ P.F.F.}$   
 $+ 2' \times 10 \text{ P.S.F. WALL} + \text{BM} = 30 \text{ P.F.F.}$   
 $T.L. = 450 \text{ P.F.F.}$

LATERAL LINES A  
 85-3-B - 10 P.S.F.  
 $5 \times 10.5 \times 10 = 525$   
 $+ \frac{2}{2} \times 10.5 \times 10 = 368$   
 $893 \#$   
 $V_A = V_B = 893 \#$   
 $B' \text{ MIN SHEAR WALL} = 893 / 6 = 112 \text{ P.S.F.}$   
 $< 258 \text{ O.K.}$   
 LINES C & D  
 $W_p = 12 \times 10 \text{ P.S.F.} = 120 \text{ P.S.F.}$   
 $V_C = V_D = 120 \times 16 = 1920$   
 $8' \text{ SHEAR WALL} = 242$   
 $< 258 \text{ O.K.}$   
 WALL NAILING 15  
 ALL SD COM OR  
 GALV BOX - 6'' OC  
 EDGES, 12'' OC FIELD





# Landmarks Preservation Commission

Planning and Development Services Department



747 Market Street | Room 345 | Tacoma WA 98402-3793 | 253.591.5220

## APPLICATION FOR DESIGN REVIEW

Permit Number: HDR20-0002

### PROPERTY INFORMATION

<b>Building/Property Name:</b>	W.W. Seymour Conservatory Rehabilitation
<b>Building/Property Address:</b>	316 S G ST
<b>Historic/Conservation District:</b>	Wright Park
<b>Applicant's Name:</b>	Sean Kelly
<b>Applicant's Address:</b>	1050 N 38th St seattle, WA 98103
<b>Applicant's Phone:</b>	2062243388
<b>Applicant's Email:</b>	seank@shksarchitects.com
<b>Property Owner's Name:</b>	METROPOLITAN PARKS DISTRICT OF TACOMA
<b>Property Owner's Address:</b>	

### PROJECT SCOPE AND DESCRIPTION

#### Project Details

<b>Application Type:</b>	Commercial
<b>Type of Work:</b>	Other Minor Work
<b>Estimated Valuation:</b>	1400000

#### Application Checklist

**Features to be Modified:**  
Included within

**Program of Work:**

**Specifications of Materials and Finishes:**

Included within

## Building/Roofing Information

Roof Height:

Roof Pitch:

Roof Material:

Size of Construction:

Proposed Material:

Exterior Material:

## Window Information

Window Types:

Window Trim:

Window Material:

Window Locations:

## Door Information

Door Types:

Door Materials:

Door Locations:

**Sign/Awning Information**

**Existing Signage:**

**Sign Dimensions:**

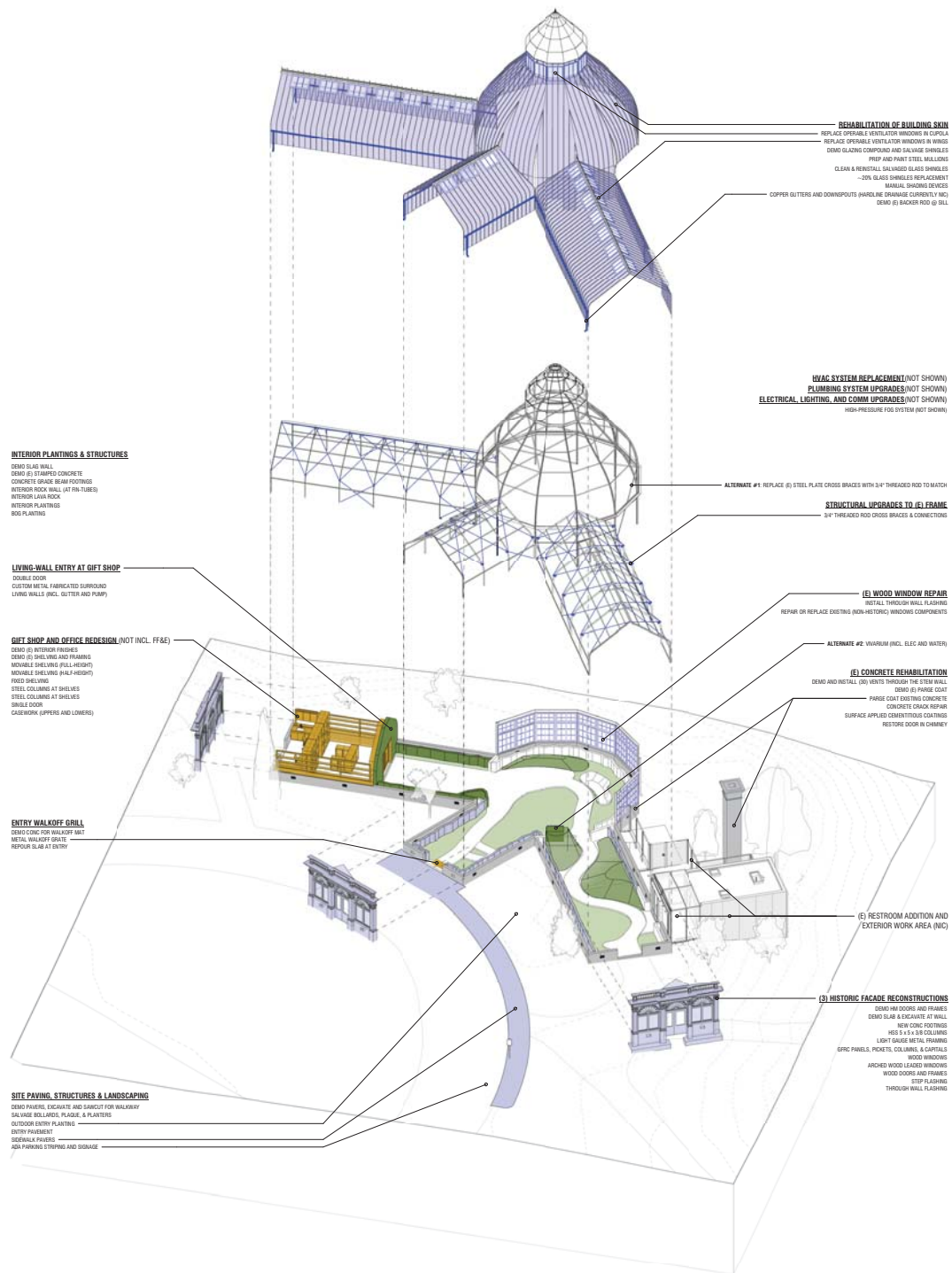
**Sign Material:**

**Logo and Letter Size:**

**Lighting Specifications:**

**Removing or Relocating Signage:**

**Method of Attachment:**



# W.W. SEYMOUR CONSERVATORY REHABILITATION

Landmarks Design Review Application

Metro Parks Tacoma

January 8, 2020





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## PROJECT OVERVIEW

This proposal is for a rehabilitation of the W.W. Seymour Botanical Conservatory. Both the W.W. Seymour Botanical Conservatory and Wright Park are listed on the National Register of Historic Places and are subject to the Secretary of the Interior's Standards for the Treatment of Historic Properties.

The existing conservatory consists of 3,605 gross square feet (GSF) of plant display, gift shop, and offices. The existing 605 GSF basement contains mechanical, electrical, and plumbing equipment and is used for secondary storage space. A 440 GSF addition completed in 2019, extending westward from the north wing, includes accessible restrooms and storage space.

The primary purpose of this project is to rehabilitate existing building elements and reconstruct character-defining features that, over the course of more than a century, were removed, including:

- Replacement of systems that have exceeded their service lives: The mechanical system, electrical conduit, and lighting will be replaced.
- The building's seismic-performance will be upgraded to current life-safety-standards with the addition of cross-braces in the roof plane and select wall planes.
- Historic facades located at the terminus of each wing deteriorated in the late 1920's/early 1930's. This project includes reconstruction of the facades with more durable substitute materials (GFRC). The reconstruction will be based on photographic evidence.
- The existing Gift Shop and Office will be replaced with a flexible space utilizing movable shelving/partitions.
- Vertical plant display space will be introduced into the south wing along with a small bog feature.
- Low-interior walls built in 1949 and not considered part of the period of significance contain hazardous materials (heavy metals). These will be demolished and replaced with stone walls.
- The building's capacity to curate plants will be improved with the addition of manually-operated shading devices (located on the interior of the roof structure), a high-pressure fogging/misting system, and the reintroduction of intake vents through the existing concrete stem walls.
- The building's steel/glass skin will be rehabilitated by salvaging and reinstalling existing glass shingles in order to prep/repaint existing steel with a high-performance coating. The coating will be white, consistent with the original paint color.

- Existing non-original windows will be repaired or replaced, including ventilator windows on the roof and cupola and fixed windows around the west-side of the Rotunda.
- Site modifications include the addition of (1) accessible parking stall and pathway, exterior plantings on the eastside of the building, and exterior lighting at the base of the historic facades.

## PROJECT BACKGROUND

SHKS has met with Tacoma Landmarks Preservation Board several times over the past four years to discuss various phases of projects proposed at the Seymour Conservatory. The initial proposal was developed through schematic design and established the framework for subsequent proposals. In short, this proposal included a renovation of the existing conservatory, as well as a new entry pavilion and subterranean addition leading to an elliptical dome, set apart from the existing conservatory in the landscape, maintaining the the ability to walk around the entire historic building.



**SD SECTION** *(through the existing conservatory, entry pavilion, subteranean area, and elliptical dome)*

An abbreviated version of the initial proposal was developed through design development while postponing the proposed elliptical dome for a later phase. All other elements of the proposal were retained, including a renovation of the existing conservatory, a full systems upgrade and the development of the (3) historic entry facades.



**DD SITE VISUALIZATION** *(the entry pavilion, and subteranean area are 'bracketed' by concrete site walls placed throughout the landscape)*



**DD EXISTING CONSERVATORY ENTRY VISUALIZATION** (*Historic Entry Facades are reconstructed at the end of each wing, while a new concrete site wall denotes the main building entry to the north*)

While funding was being procured for the proposed DD expansion, Metro Parks Tacoma required better accommodations for the staff and patrons, including accessible restrooms, additional storage space, and an exterior work area. A small restroom addition was proposed west of the northwing, located within the footprint of the proposed DD expansion. Elements of the restroom addition were designed to be deconstructed and integrated into the later expansion. Construction of this addition commenced in August of 2017 and was completed in Winter of 2018/2019.



**RESTROOM ADDITION** (*extending westward from the northwing*)

After the completion of the restroom addition, Metro Parks Tacoma was awarded a Heritage Capital Projects matching grant for renovation work to the existing conservatory. This project is a result of that grant.

**EXISTING CONDITIONS**



**VIEW OF THE EXISTING CONSERVATORY FROM THE NORTH**



**VIEW OF THE EXISTING CONSERVATORY FROM THE NORTHWEST** *(showing the north wing, restroom addition, existing chimney, and cupola)*



**VIEW OF THE CONSERVATORY FROM THE SOUTHWEST**



**VIEW OF THE CONSERVATORY FROM THE SOUTHEAST**



**VIEW OF THE CONSERVATORY FROM THE EAST** *(main entry)*





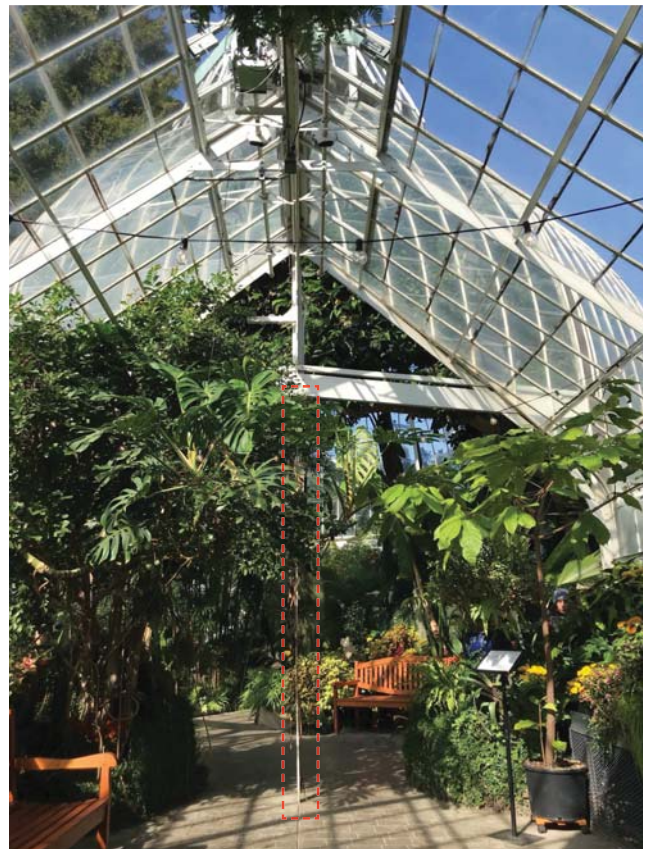
**GIFT SHOP ENTRY**



**GLASS GASKET ENTRY** (to restroom addition)



**FLAT PLATE CROSS BRACING AND FAN AT THE ROTUNDA** *(Added as part of the 2003 renovation)*



**EXISTING FLAT PLATE COLUMN** *(Dotted in red; At wing to rotunda transition; Added as part of the 2003 renovation)*



**EXISTING SYSTEMS AT THE PEAK OF THE GABLE WINGS** *(This proposal aims to simplify these systems)*



**EXISTING INTAKE VENT** *(The exterior of these vents were patched as part of the 2003 renovation)*



**EXISTING BOILER**



**EXISTING SLAG WALL** (protecting fin tubes)



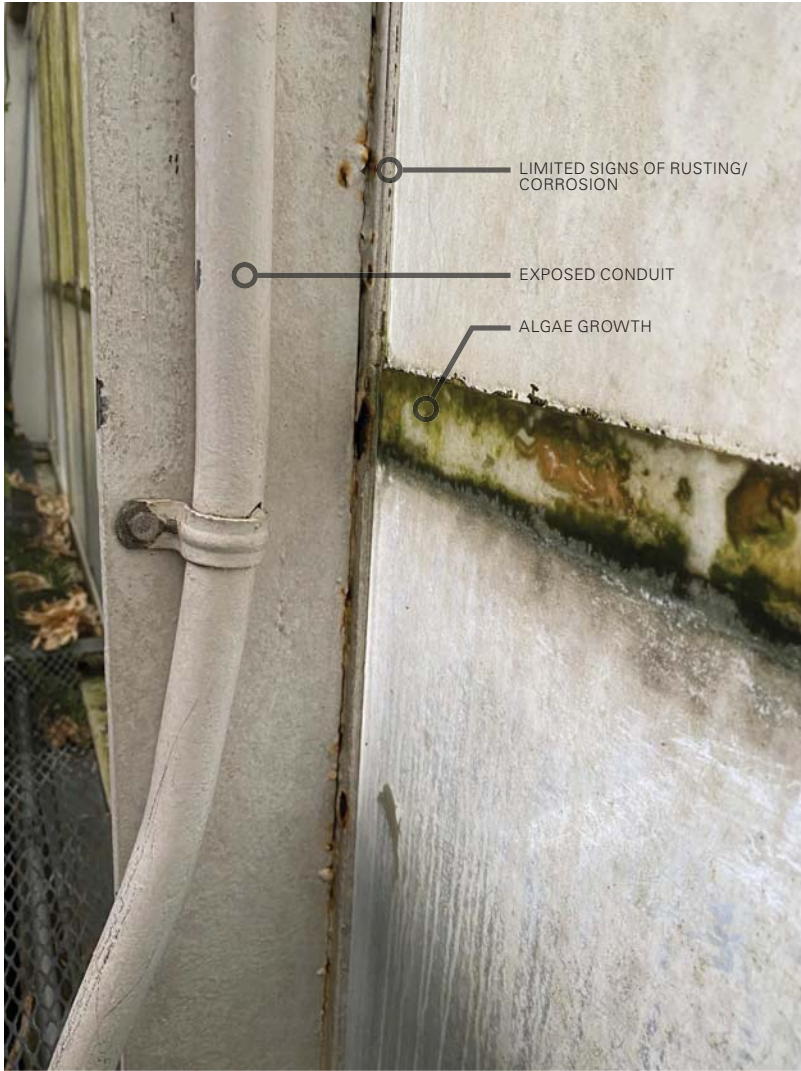
**EXISTING STONE WALL** (which replaced the slag walls, which contain hazardous/ heavy metals during the restroom addition)



**VENTILATOR WINDOWS** (some, but not all, were replaced as part of the 2003 renovation)



**FIXED WOOD WINDOWS** (west of the rotunda; previously replaced as part of the 1991 renovation)



**GLASS SHINGLE AND STEEL RIB CONDITION**



**HIGH PERFORMANCE COATING** (to match existing:  
used for all painted steel material during the restroom  
addition)



**CHIMNEY AND DOOR**





## MATERIALS NARRATIVE

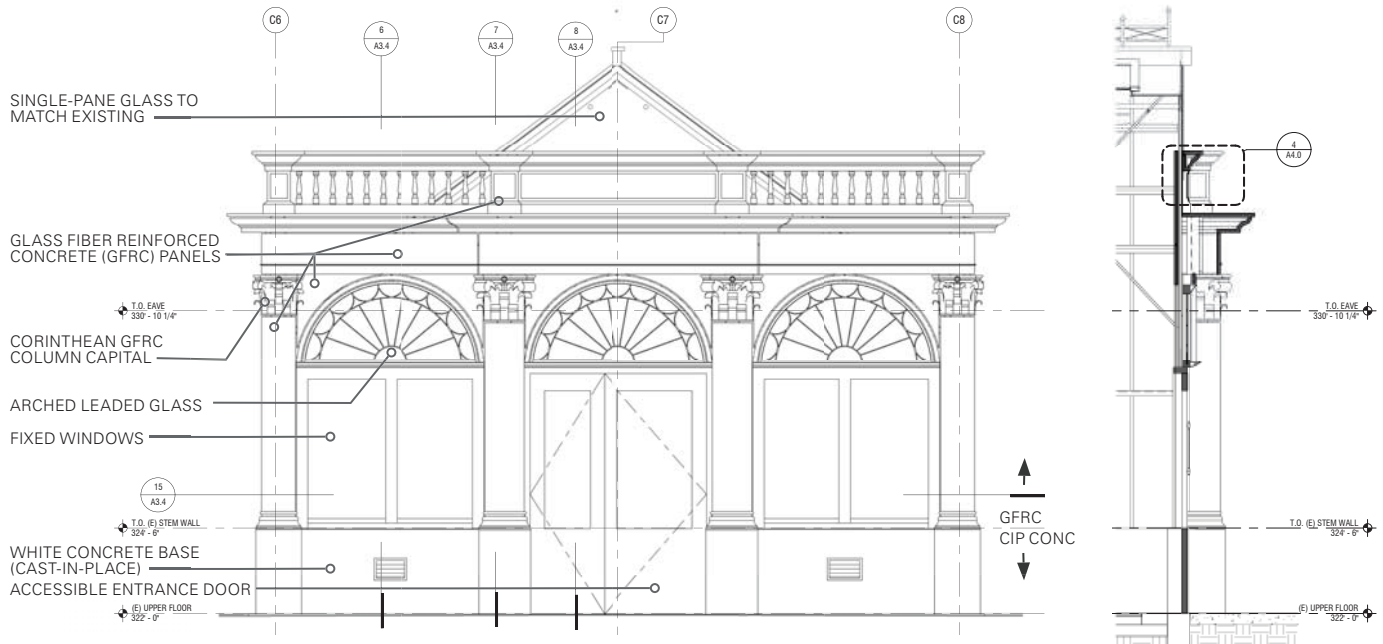
### EXISTING CONSERVATORY:

A continuous concrete stem wall supports the primary framing: painted plate-steel ribs. Secondary steel “T” shape mullions support the glass-shingle skin. Wood framed ventilators are located at the ridge of each wing’s roof and around the base of the central cupola. A copper cupola cap replaced the original glass cupola and ventilator. Given the high humidity environment of greenhouses in general and the age of the building, much of the original steel framing and glass shingles have been replaced during prior renovations. Photographic evidence shows these elements were not always replaced in kind, including the portion of the existing envelope impacted by this proposal. The existing steel-plate ribs are original, but the steel “T” shape mullions were replaced in 1975 and now follow a different curve at the eave condition (see additional information at the end of this document).

The low-height “slag-walls”, which protect the fin-tube radiators (heating) along the perimeter of the building, were salvaged from the Asarco plant in 1949 and contain heavy metals. These walls will be demolished as part of this project.

### HISTORIC CONSERVATORY RECONSTRUCTIONS:

While the historic ‘false front’ facades were a component of the original design, their wood frames deteriorated quickly and were removed in the late 1920’s or early 1930’s. This was likely due to the fact that the hipped roof ends, at each of the wings, shed water towards the backs of the ornate wood facades. The historic facade reconstructions proposed will be of glass fiber reinforced concrete (GFRC), a waterproof material. To replicate the light color in the original design, the newly constructed stem wall and GFRC panels above will be cast using white cement. In addition, a limewash will be applied to exposed surfaces.



- FACADE GENERAL NOTES:**
1. ALL EXTERIOR DOORS AND WINDOWS TO BE OF WOOD OR (COST-PERMITTING) FIBERGLASS. FINISH WHITE TO MATCH GFRP
  2. LIMEWASHED FINISH IS PROPOSED FOR ALL CAST-IN-CONCRETE BASES AND GFRP PANELS
  3. THROUGH-WALL FLASHING, ATOP CIP CONC STEM WALL, SHALL BE COPPER (TO MATCH EXISTING)
  4. THE SUPPORT FRAME FOR THE GFRP SHALL BE OF STRUCTURAL STEEL WITH LIGHT-GUAGE STEEL INFILL FRAMING



**EAST (MAIN) ENTRY** (currently)



**EAST (MAIN) ENTRY** (originally)



GLASS FIBER REINFORCED CONCRETE (GFRC) PANELS



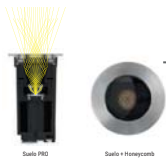
LIMEWASHED CONCRETE FINISH



COPPER GUTTER AND DOWNSPOUT (TO MATCH EXISTING)



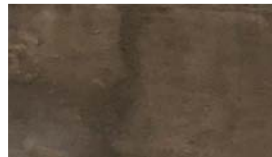
NOTE: (MOST) PLANTINGS HIDDEN FOR CLARITY



RECESSED UPLIGHTS, (1) @ EA PIER



CONCRETE SLAB-ON-GRADE



CEMENTITIOUS PARGE COAT (TO MATCH EXISTING)



SAND SET PAVERS



HIGH PERFORMANCE COATING ON ALL FERROUS METAL (TO MATCH EXISTING)



VINYL COATED POLYESTER SHADE FABRIC, WHITE (NOT SHOWN FOR CLARITY IN RENDERING BELOW, LOCATED AT ALL ROOF PLANES AT WINGS). FASTENED TO EXISTING STRUCTURAL WITH CLAMPS



STAINLESS STEEL 3/4" DIA THREADED ROD AND CLEVIS (MATTE FINISH)



NOTE: (MOST) PLANTINGS HIDDEN FOR CLARITY



CUSTOM METAL FABRICATED THRESHOLD FROM STEEL PLATE, AND ALUMINUM FRAMED GLASS ENTRANCE DOOR, WHITE (TO MATCH RESTROOM ADDITION)



LIVING WALL



COWBOY COFFEE DRYSTACK STONE WALL (TO MATCH RESTROOM ADDITION)

## PRODUCT DATA

### ENTRY DOOR (AT GIFT SHOP):



### THE LOOK YOU WANT, THE PERFORMANCE YOU NEED

#### AESTHETICS:

- Ultra-Narrow 1-1/8" Vertical Stiles and 2-1/2" System Depth
- Premium Cladding in Customizable Finishes
- Handle Hardware — Including Panic Devices — Mounts onto 1" Insulating Glass
- SEAL-LOC™ Clamping Mechanism Eliminates Need for Glass Stops
- Optional Integrated LED Lighting System with Roscolux Film
- Doors Can be Specified Up to 10 Feet High
- Complete Entrance System Including: Corners, Thresholds, Wall and Doorway Jams, Vertical Mullions, and Fixed Lite Rails

#### PERFORMANCE:

- Thermally Broken Framing and Cladding
- Entice® Entrances have U-factors as low as 0.43
- Entice® Storefront has U-factors as low as 0.33
- Complies with California Title 24 Thermal and Air Infiltration Requirements
- NFRC Rated and Meets ASHRAE 90.1-2016 Air Infiltration Requirements
- Compatible with All High-Solar and Thermal Efficient Glass
- Entice® Entrance Passes ASTM E331 Water Penetration at 0.0 psf (AAMA Limited Water)
- Entice® Entrance Passes AAMA 1304 Forced Entry Resistance
- Optional Door Seal Kits for Reduced Sound Infiltration

#### Maximum Recommended Door Size:

- 36" W x 120" H – 23 PSF Wind Load
- 42" W x 111" H – 25 PSF Wind Load
- 48" W x 108" H – 24 PSF Wind Load

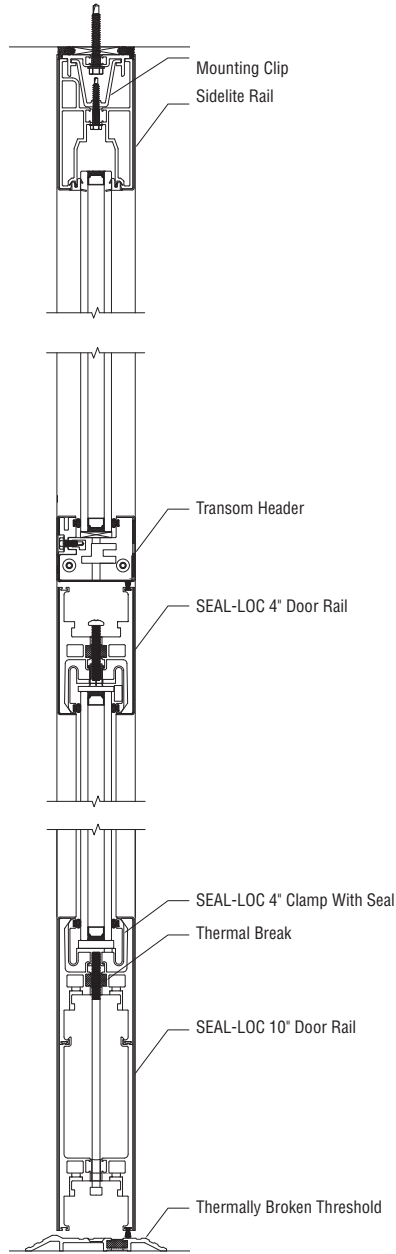


# ENTICE® SERIES ENTRANCE SYSTEM TYPICAL DETAILS

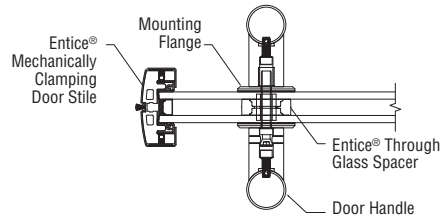


For 1" (25 mm)  
Insulating Glazing

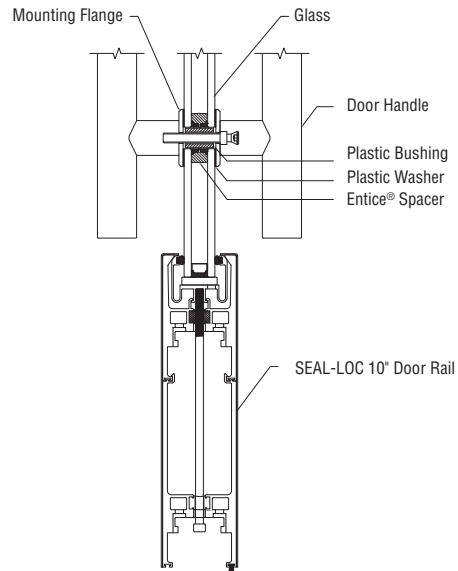
For Specifications,  
Details, and Testing Data  
go to [usalum.com](http://usalum.com).



Section Through Door With Transom



Section Through Door Stile and Handle



Section Through Door Rail and Handle

NOT TO SCALE

AVDB4188\_3/16

PHONE: (800) 262-5151 ext. 5305 | FAX: (866) 262-3299 | Email: [usalum@crlaurence.com](mailto:usalum@crlaurence.com) | Website: [usalum.com](http://usalum.com)

## REMOVED, REPLACED, OR ADDED ITEMS

### REMOVED ITEMS

- EXISTING CONCRETE IN STEM WALL FOR INTAKE VENTS
- CORROSION ON EXISTING STEEL
- BACKERROD AT EXISTING SILL

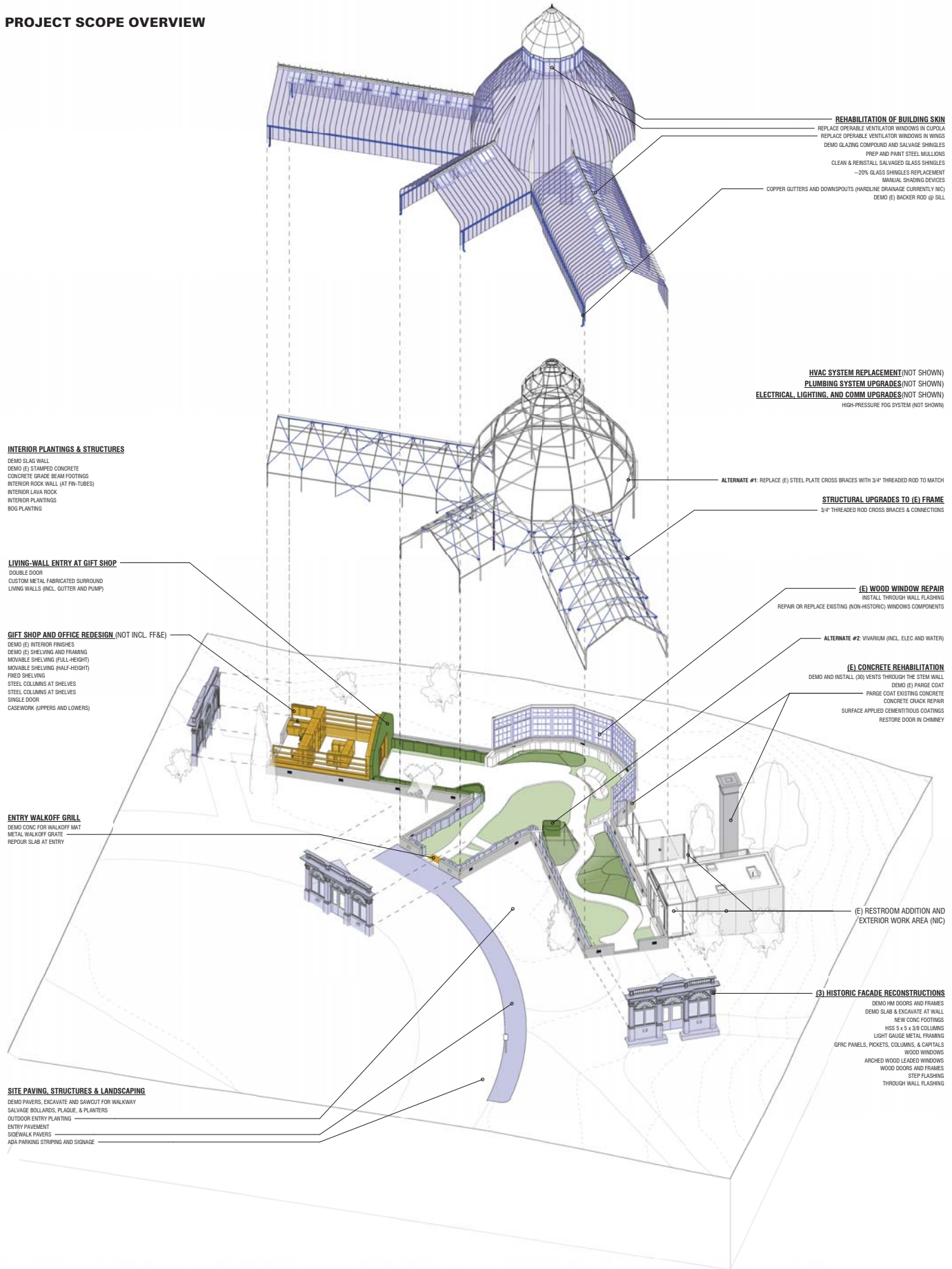
### REPLACED ITEMS

- MECHANICAL SYSTEM
- ELECTRICAL CONDUIT AND LIGHTING FIXTURES
- PLUMBING FIXTURES
- PARGE COAT ON EXISTING STEM WALL AND CHIMNEY
- PAINTED FINISHES
- SLAG WALLS. *(To be replaced with drystacked stone not containing hazardous materials)*
- ENTRY PAVING AT EAST ENTRY
- GIFT SHOP CASEWORK AND SHELVING
- OPERABLE VENTILATOR WINDOWS IN ROOFS AND CUPOLA BASE
- INTERIOR AND EXTERIOR PLANTINGS
- ~20% OF GLASS SHINGLES

### ADDED ITEMS

- (30) INTAKE VENTS THROUGH STEM WALL
- 3/4" THREADED ROD CROSS BRACES AND CONNECTIONS
- (3) HISTORIC (GFRC) FACADE RECONSTRUCTIONS WITH DOORS AND LEADED WINDOWS
- LIVING WALL DISPLAY AND BOG FEATURE
- ENTRY WALKOFF MAT (within non-historic slab on grade)
- COPPER GUTTERS AND DOWNSPOUTS *(to match historic)*
- HIGH PRESSURE FOGGING SYSTEM
- INTERIOR MANUALLY INSTALLED SHADING DEVICES
- SAND-SET PAVERS AT MAIN ENTRY

**PROJECT SCOPE OVERVIEW**



**REHABILITATION OF BUILDING SKIN**

- REPLACE OPERABLE VENTILATOR WINDOWS IN CUPOLA
- REPLACE OPERABLE VENTILATOR WINDOWS IN WINGS
- DEMO GLAZING COMPOUND AND SALVAGE SHINGLES
- PREP AND PAINT STEEL MULLIONS
- CLEAN & REINSTALL SALVAGED GLASS SHINGLES
- 20% GLASS SHINGLES REPLACEMENT
- MANUAL SHADING DEVICES
- COPPER GUTTERS AND DOWNSPOUTS (HARDLINE DRAINAGE CURRENTLY NIC)
- DEMO (E) BACKER ROD @ SILL

- HVAC SYSTEM REPLACEMENT** (NOT SHOWN)
- PLUMBING SYSTEM UPGRADES** (NOT SHOWN)
- ELECTRICAL, LIGHTING, AND COMM UPGRADES** (NOT SHOWN)
- HIGH-PRESSURE FOG SYSTEM (NOT SHOWN)

**INTERIOR PLANTINGS & STRUCTURES**

- DEMO SLAG WALL
- DEMO (E) STAMPED CONCRETE
- CONCRETE GRADE BEAM FOOTINGS
- INTERIOR ROCK WALL (AT FIN-TUBES)
- INTERIOR LAUN ROOM
- INTERIOR PLANTINGS
- BOG PLANTING

**LIVING-WALL ENTRY AT GIFT SHOP**

- DOUBLE DOOR
- CUSTOM METAL FABRICATED SURROUND
- LIVING WALLS (INCL. GUTTER AND PUMP)

**GIFT SHOP AND OFFICE REDESIGN** (NOT INCL. FF&E)

- DEMO (E) INTERIOR FINISHES
- DEMO (E) SHELVING AND FRAMING
- MOVABLE SHELVING (FULL-HEIGHT)
- MOVABLE SHELVING (HALF-HEIGHT)
- FIXED SHELVING
- STEEL COLUMNS AT SHELVES
- STEEL COLUMNS AT SHELVES
- SINGLE DOOR
- CASEWORK (UPPERS AND LOWERS)

**ENTRY WALKOFF GRILL**

- DEMO CONG FOR WALKOFF MAT
- METAL WALKOFF GRATE
- REPAIR SLAB AT ENTRY

**SITE PAVING, STRUCTURES & LANDSCAPING**

- DEMO PAVERS, EXCAVATE AND SAWCUT FOR WALKWAY
- SALVAGE BOLLARDS, PLUGS, & PLANTERS
- OUTDOOR ENTRY PLANTING
- ENTRY PAVEMENT
- SIDEWALK PAVERS
- ADA-PARKING STRIPING AND SIGNAGE

ALTERNATE #1: REPLACE (E) STEEL PLATE CROSS BRACES WITH 3/4" THREADED ROD TO MATCH

**STRUCTURAL UPGRADES TO (E) FRAME**

- 3/4" THREADED ROD CROSS BRACES & CONNECTIONS

**(E) WOOD WINDOW REPAIR**

- INSTALL THROUGH WALL FLASHING
- REPAIR OR REPLACE EXISTING (NON-HISTORIC) WINDOW COMPONENTS

ALTERNATE #2: VIVARIUM (INCL. ELEC AND WATER)

**(E) CONCRETE REHABILITATION**

- DEMO AND INSTALL (30) VENTS THROUGH THE STEM WALL
- DEMO (E) PARGE COAT
- PARGE COAT EXISTING CONCRETE
- CONCRETE CRACK REPAIR
- SURFACE APPLIED CEMENTITIOUS COATINGS
- RESTORE DOOR IN CHIMNEY

**(E) RESTROOM ADDITION AND EXTERIOR WORK AREA (NIC)**

**(3) HISTORIC FACADE RECONSTRUCTIONS**

- DEMO HM DOORS AND FRAMES
- DEMO SLAB & EXCAVATE AT WALL
- NEW CONG FOOTINGS
- HSS 5 x 5 x 3/8 COLUMNS
- LIGHT GAUGE METAL FRAMING
- GRPC PANELS, PICKETS, COLUMNS, & CAPITALS
- WOOD WINDOWS
- ARCHED WOOD LEADED WINDOWS
- WOOD DOORS AND FRAMES
- STEP FLASHING
- THROUGH WALL FLASHING



## DRAWINGS

60% CONSTRUCTION DOCUMENTS (<https://shksarchitects.sharefile.com/d-s08f6f7ee3ee4a9ba>)

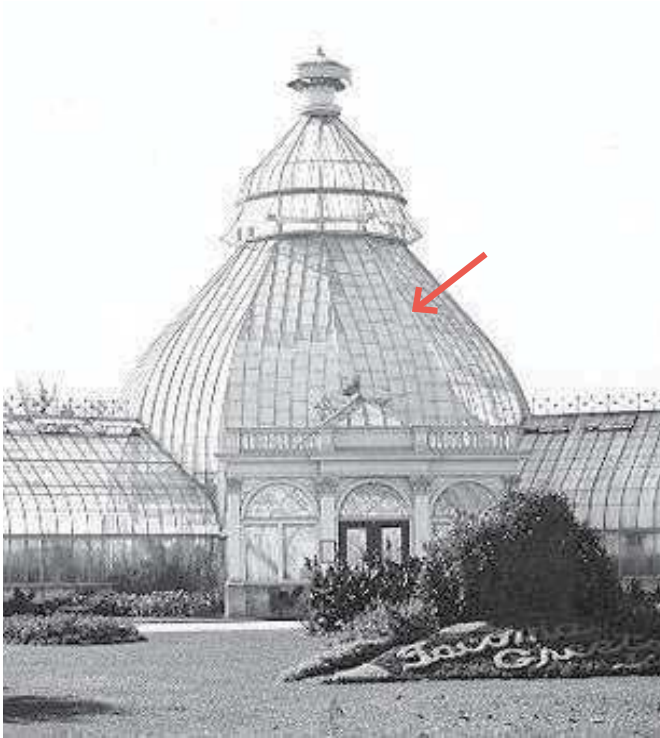
### SHEET INDEX

A0.0	COVER SHEET
A0.1	CODE SUMMARY
A0.2	CODE SUMMARY
A0.3	ACCESSIBILITY AND SIGNAGE DESIGN CRITERIA
AD2.0	DEMO SITE PLAN
AD2.1	DEMO PLANS
A1.0	SITE PLAN
V1.0	EXISTING SITE SURVEY
V2.0	EXISTING SITE SURVEY
L0..1.1	PLANT PROTECTION PLAN
L2.1.1	PLANTING PLAN
L2.1.2	PLANTING DETAILS
L2.1.3	SOILS PLAN
L3.1.1	PLANTING DETAILS
A2.1.1	FLOOR PLANS
A2.1.2	FINISH PLAN
A2.1.3	REFLECTED CEILING PLANS
A2.2	ROOF PLAN
A2.3	ASSEMBLIES AND SCHEDULES
A3.2	BUILDING SECTIONS
A3.3	WALL SECTIONS & ENLARGED ELEVATIONS
A3.4	WALL SECTIONS & ENLARGED ELEVATIONS
A3.5	ENLARGED BUILDING SECTIONS
A4.0	EXTERIOR DETAILS
A4.1	EXTERIOR DETAILS
A5.0	ENLARGED PLAN & INTERIOR ELEVATIONS
A8.0	INTERIOR DETAILS
A8.2	MILLWORK DETAILS
DIA 1	LAYOUT DIAGRAMS
S0.1	STRUCTURAL NOTES
S0.2	STRUCTURAL NOTES
S0.3	TESTING AND INSPECTION
S0.4	TESTING AND INSPECTION
S0.5	ABBREVIATIONS AND SCHEDULES
S1.1	TYPICAL DETAILS
S2.1.1	BASEMENT AND FIRST FLOOR PLAN
S2.2	ROOF FRAMING PLAN
S3.1	ELEVATIONS
S4.1	FOUNDATION DETAILS
S5.1	FRAMING DETAILS
P0.0	PLUMBING LEGEND, ABBREVIATIONS AND GENERAL NOTES
PD2.1	PLUMBING DEMO PLAN
P2.1	PLUMBING PLAN
P6.1	PLUMBING SCHEDULES
M0.0	HVAC LEGEND ABBREVIATIONS AND GENERAL NOTES
MD2.1	HVAC DEMO PLANS
M2.1	HVAC PLAN
M2.2	ENLARGED BASEMENT HVAC PLAN
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M5.0	HVAC DIAGRAMS
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E0.0	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.1	POWER ONELINE, PANEL AND MECHANICAL SCHEDULES
ED2.1	ELECTRICAL DEMO PLANS
E2.1.1	ELECTRICAL FLOOR PLANS
E2.1.2	LIGHTING FLOOR PLANS
E2.1.3	SYSTEMS FLOOR PLANS



## ADDITIONAL INFORMATION

### HISTORIC MATERIAL



*Historically, glass at the dome had staggered joints.  
Photo courtesy of University of Washington.*



*Today, joints are even at the dome.*



*Historically, glass followed steel framing. Photo  
courtesy of Washington State Historical Society.*



*Today, glass curves away from the steel frame.*

W.W. SEYMOUR CONSERVATORY REHABILITATION

PROJECT NUMBER

ABBREVIATIONS table with columns for abbreviations (e.g., 4, AND, BEL, etc.) and their corresponding descriptions (e.g., 4 INCH DIAMETER, BELT).

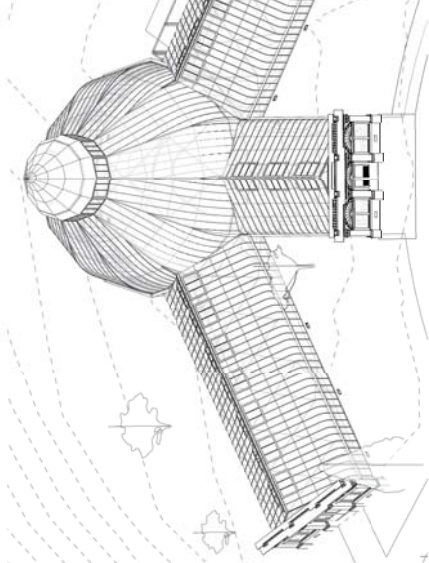
MATERIAL SYMBOLS

MATERIAL SYMBOLS table listing various materials with their symbols and descriptions (e.g., QUARRY TILE, BRICK, WOOD, METAL).

MATERIAL SYMBOLS

MATERIAL SYMBOLS table listing materials with their symbols and descriptions (e.g., CONCRETE, GRAVEL, WOOD, REEL).

DRAWING SYMBOLS table with symbols and descriptions (e.g., 1/4" = 1/4" scale, DIMENSION LINE, CENTERLINE).



PROJECT NUMBER

PROJECT INFORMATION

PROJECT OWNER: METRO PARKS, TACOMA
PROJECT MANAGER: MRS. V. SHERIDAN
ADDRESS DESCRIPTION: 321 WEST AVE., SUITE 216, TACOMA, WA 98403

DESIGN TEAM

ARCHITECT: SHKS ARCHITECTS
LANDSCAPE ARCHITECT: METRO PARKS
STRUCTURAL ENGINEER: KENNETH L. ANDERSON

GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL ORDINANCES.
2. MATERIALS, ASSEMBLIES AND METHODS SHALL BE APPROVED BY THE LOCAL BUILDING DEPARTMENT BEFORE COMMENCEMENT OF WORK.

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SHEET INDEX

SHEET INDEX table listing drawing sheets and their descriptions (e.g., A-10 COVER SHEET, A-11 CONSERVATORY FLOOR PLAN).

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

NOT FOR CONSTRUCTION

**ZONING ANALYSIS**  
TACOMA MUNICIPAL CODE - LAND USE REGULATORY CODE

- 1.4 ADDRESS:**  
1315 1/2 AVENUE  
TACOMA, WA 98405
- 1.7 PARCEL AC:**  
1.1333 TRACTS
- 1.12 LOT COVERAGE (NO LIMIT DOES NOT APPLY TO INSTITUTIONS):**  
PROPOSED: 0% CHANG  
MAXIMUM: 0.25%
- 1.13 SETBACKS:**  
FRONT: 25 FEET (NO CHANGE)  
SIDE: 5 FEET (NO CHANGE)  
BACK: 25 FEET (NO CHANGE)
- 1.14 SEPA EXEMPT:**  
PER TACOMA PLANNING AND DEVELOPMENT SERVICES
- 1.15 HEIGHT LIMIT:**  
30 FEET (NO OCCUPANCY, ADDITIONAL HEIGHT TO BE DETERMINED PER TACOMA MUNICIPAL CODE)
- 1.16 PARKING:**  
PROPOSED ONE (1) ACCESSIBLE STALL FROM EXISTING STALL
- 1.17 PERMITTED USES:**  
PER TACOMA MUNICIPAL CODE SECTION 13.05.021.1  
ONLY, NO DRIVE-BY BUILDING OR ALL EXTERIOR LIGHTING TO BE TURNED OFF FROM 10:00 PM TO 5:00 AM
- 1.18 MOOSE:**  
NO
- 1.19 MOOSE:**  
NO
- 1.20 PROPOSED MOOSE:**  
NO

- 1.31 LOT AREA:**  
1,134,402 SF
- 1.44 WEIGHT PARK IN3, SPECIAL USE**
- 1.53 A USE:**  
CITY OF TACOMA LANDMARK AND NATIONAL REGISTERED HISTORIC PROPERTY
- 1.64 WEIGHT PARK USE TWO FAMILY HOUSING, BUILDING IS WITHIN A WEIGHT PARK USE (OVERLY SPECIAL USE AUTHORITY NOT REQUIRED)**
- 1.7 EXISTING USE:**  
CONSERVATORY (NO CHANGE)
- 1.8 PROPOSED USE:**  
CONSERVATORY (NO CHANGE)
- 1.9 WEIGHT PARK USE:**  
NO
- 1.10 EXISTING BUILDING AREAS IN WEIGHT PARK USE FLOOR AREA:**  
GROSS FLOOR AREA: 9,588 SF  
GROSS FLOOR AREA: 9,588 SF  
EQUIPMENT STORAGE: 1,004 SF  
TOTAL BUILDING AREAS: 10,592 SF  
TOTAL BUILDING AREAS: 10,592 SF
- 1.11 PROPOSED BUILDING AREA:**  
0 SF (NO CHANGE)

**BUILDING CODE ANALYSIS**

PER 2014 IBC, W.W. WASHINGTON STATE AND TACOMA MUNICIPAL CODE AMENDMENTS

**ENERGY CODE ANALYSIS**  
PER 2015 WASHINGTON STATE ENERGY CODE (MSRC)

- 2.0 OCCUPANCY GROUP CLASSIFICATION FOR USE IN EXISTING BUILDING:**  
GROUP A-2, S-2, A-M
- 2.1 CONTRIBUTION TYPE ON EXISTING BUILDING:**  
TYPE 2-B PER IRC 602.2 (5) MAXIMUM HEIGHT ALLOWED:  
REINFORCED CONCRETE, R.I.M.E.  
BRICK WALLS  
INTERIOR  
NON-WEATHER WALLS AND PARTITIONS (INTERIOR)  
WOOD SHEATHING WALLS AND PARTITIONS (INTERIOR)  
WOOD CEILING  
WOOD FLOORING AND SECONDARY MEMBERS  
WOOD ROOFING AND SECONDARY MEMBERS
- 2.2 EXISTING BUILDING COMPLIANCE METHOD:**  
LEVEL 2 ALTERATION - AFFECTS LESS THAN 50% OF BUILDING AREA
- 2.3 FIRE SUPPRESSION AND ALARM DETECTION SYSTEMS:**  
GROUP A-2: FIRE AREA = 5000 SF, OCC. LOAD < 100, FIRE AREA ON LEVEL OF EXT. DISCHARGE  
FIRE ALARM AND DETECTION SYSTEM, NOT REQUIRED PER IRC 907.2.1 (GROUP A, OCC. LOAD < 300)
- 2.4 ALLOWABLE BUILDING HEIGHT AND FLOOR AREA PER IBC TABLE 503:**  
GROUP A-2 = 9,500 SF  
GROUP A-2 = 25,000 SF  
GROUP S-2 = 25,000 SF  
AREA OF EXISTING OCCUPANCIES (UPPER FLOOR):  
GROUP A-2 = 1440 SF  
GROUP S-2 = 129 SF  
AREA OF EXISTING OCCUPANCIES (LOWER FLOOR):  
GROUP S-2 = 497 SF  
AREA OF PROPOSED OCCUPANCIES (UPPER FLOOR):  
NO CHANGE  
AREA OF PROPOSED OCCUPANCIES (LOWER FLOOR):  
NO CHANGE  
NOTE: SEE SHEET 40.2 FOR OCCUPANCY CLASSIFICATIONS & LOAD TABLES
- 2.5 MECHANICAL SYSTEMS (PER MECHANICAL DIVISION):**  
EXISTING: HYBRID, GAS-FIRED BOILER  
NOT INDICATED
- 2.6 BUILDING AREA MODIFICATIONS:**  
NO CHANGE
- 2.7 MECHANICAL SYSTEMS (PER MECHANICAL DIVISION):**  
NO CHANGE
- 2.8 ELECTRICAL SYSTEMS (PER ELECTRICAL DIVISION):**  
A.S. & P. ARE CONSIDERED NON-SPRINKLED OCCUPANCIES PER IBC 908.4.1. BOTH OCCUPANCIES ARE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH THE MOST RESTRICTIVE CLASSIFICATION. A-2 (SEE IBC 908.2.1.3). PER IBC 908.2.2 ALLOWANCE BUILDING AREA AND HEIGHT SHALL BE BASED ON NON-SPRINKLED. A-2 OCCUPANCIES SHALL BE MAXIMUM 300 SF. ALLOWANCE BUILDING HEIGHT IS 40 FT.
- 2.9 PARTS:**  
NO CHANGE
- 2.10 OPENINGS IN EXTERIOR WALL:**  
NO FIRE RAMP REQUIRED PER IBC CHAPTER 7. NO RESTRICTION ON SPRINKLING SIZE AND LOCATION.

- 3.1 GREENHOUSE ENERGY COMPLIANCE 2015 MSRC CODE:**  
CODE 11A LOW ENERGY BUILDINGS: THE FOLLOWING BUILDINGS OPERATIONS THESE: SEPARATED FROM THE EXISTING BUILDING ENVELOPE. THESE BUILDINGS OPERATIONS THESE: SEPARATED FROM THE EXISTING BUILDING ENVELOPE. PROVISIONS OF THE CODE SHALL BE EXEMPT FROM ALL THERMAL ENVELOPE PROVISIONS OF THE CODE.  
APPLICABLE TO THE EXISTING BUILDING ENVELOPE AND THE EXISTING BUILDING ENVELOPE CONDITIONED SPACE.  
NOTE: WHILE NOT REQUIRED BY CODE, ALL NEWLY INTRODUCED AND NON-EXISTING BUILDING ELEMENTS WILL BE TO CURRENTLY PRESCRIBED CODE STANDARDS.  
SINGLE DOUBLE GLAZED OPERATIONS THESE: (SEE CODE 11B.1)  
VT DOUBLE GLAZED CLEAR-GAS, TRIPLED-GAS  
SINGLE-GLAZED GLAZED SKYLIGHTS (TABLE 1003.1.3.4)  
SINGLE-GLAZED GLAZED SKYLIGHTS (TABLE 1003.1.3.4)  
OPABLE THERMAL ENVELOPE ASSEMBLY MINIMUM REQUIREMENTS (TABLE CODE 1.4)  
EFFECTIVE U-VALUE (SEE CODE 1.4)  
EFFECTIVE U-VALUE (SEE CODE 1.4)  
STUD DEPTH'S 1/2" @ 19" OC. = R-3  
CONTROL ALL ELECTRICAL WIRING WITHIN A LIGHT ZONE.

**BUILDING CODE ANALYSIS**

PER 2014 IBC, W.W. WASHINGTON STATE AND TACOMA MUNICIPAL CODE AMENDMENTS

**ENERGY CODE ANALYSIS**  
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- 2.9 PARTS:**  
NO CHANGE
- 2.10 OPENINGS IN EXTERIOR WALL:**  
NO FIRE RAMP REQUIRED PER IBC CHAPTER 7. NO RESTRICTION ON SPRINKLING SIZE AND LOCATION.

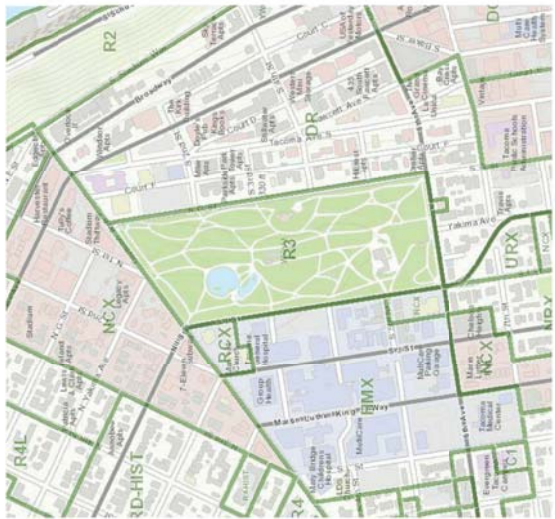
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EFFECTIVE U-VALUE (SEE CODE 1.4)  
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STUD DEPTH'S 1/2" @ 19" OC. = R-3  
CONTROL ALL ELECTRICAL WIRING WITHIN A LIGHT ZONE.

**PLUMBING FIXTURE COUNT - NO CHANGE**

PER 2015 IBC, W.W. WASHINGTON STATE AND TACOMA MUNICIPAL CODE AMENDMENTS

TYPE BY OCCUPANCY	WATER FIXTURES		DRAINAGE FIXTURES	
	MAX. ALLOWABLE	FIXTURES	MAX. ALLOWABLE	FIXTURES
A-3	461.0025	1 PER 125	1 PER 200	NOT REQUIRED SEE NOTE 4.1 BELOW
S-2	21.0025	18	36	12
		WOMEN (1.1)	1 PER 100	1 PER 100
TOTAL (EXCLUDING (REWORKING UP)	PROVIDED	1	1	1
PROVIDED	1	1	1	0

- 4.1 DRINKING FOUNTAIN REQUIREMENT WITH EXISTING BUILDING 2015 IBC, SECTION 410.1:**  
"WHERE THE OCCUPANT LOAD OF THIS STORY IS INCREASED BY MORE THAN 20 PERCENT PLUMBING FIXTURES FOR THE STORY SHALL BE PROVIDED IN QUANTITIES SPECIFIED IN THE INTERNATIONAL PLUMBING CODE." PER TACOMA MUNICIPAL CODE AMENDMENTS.  
ADDITIONAL PLUMBING FIXTURES TO BE PROVIDED.  
NO DRINKING FOUNTAINS ARE REQUIRED.



1 ZONING MAP  
1" = 400'

FLOOR OCCUPANCY LOAD FACTOR TABULATION PER 2012 IBC

USE & OCCUPANCY CLASSIFICATION	AREA, NAME	S.F. PER PERSON	AREA, NSFG/SF	CALC. OCCUPANTS	COMMENTS
Basement Plan 01	Basement	300	497.9F	17	(E) Mechanical Equipment Room
Upper Floor 01	Exhibition and Gallery Space	50	1115.5F	22.2	Available in non-panning (paned) area available to occupants, which are not included in occupancy load calculation. (E) Storage Room
Upper Floor 02	Exhibition and Gallery Space	50	115.5F	2.3	(E) Storage Room
Upper Floor 03	Accessory Storage Area, Mechanical Equipment Room	300	11.5F	0.1	(E) Storage Room
Upper Floor 04	Accessory Storage Area, Mechanical Equipment Room	300	420.5F	1.4	(E) Storage Room
Upper Floor 05	Restroom	50	54.5F	1.1	(E) Restroom
Upper Floor 06	Personnel	50	103.5F	2.1	(E) Restroom

UPPER FLOOR COMMON PATH OF EGRESS TRAVEL

PATH NAME	PATH LENGTH
Common Path 1.1	52'-9"

UPPER FLOOR EXIT ACCESS TRAVEL DISTANCE

PATH NAME	PATH LENGTH
Exit Path 1.1	56'-7"

NOTE: PER IBC TABLE 1002.2 COMMON PATH SHALL BE 75% FROM OCCUPANCIES <100 PERSONS OCCUPANCIES

NOTE: PER IBC TABLE 1002.2 COMMON PATH SHALL EXCEED THE VALUE IN THE TABLE 1002.2 A 200 AS 300 PERSON SPRINKLER SYSTEM

PER IBC TABLE 1002.2 MINIMUM CORRIDOR WIDTH SHALL BE 44" FOR OCCUPANCY CLASS A2, S2, M

PER IBC TABLE 1002.2 MINIMUM CORRIDOR WIDTH SHALL BE 48" FOR OCCUPANCY CLASS A2, S2, M

FLOOR DEAD END CORRIDOR

LEVEL	DEAD END CORRIDOR	PATH LENGTH
Upper Floor	Dead End Corridor Path 1.1	38'-7.33"

NOTE: PER IBC 1002.2 DEAD END CORRIDOR SHALL NOT BE LIMITED LENGTH WHERE THE LENGTH OF THE DEAD END CORRIDOR IS LESS THAN 1/2 THE LENGTH OF THE CORRIDOR

UPPER FLOOR EXIT ACCESS DOORWAY ARRANGEMENT ...

DOORWAY	DIAGONAL LENGTH	1/2 OF DIAGONAL LENGTH
Doorway 0.1	56'-1.18"	28'-2.2"

NOTE: PER IBC 1002.2 MINIMUM DISTANCE BETWEEN UPPER DOORS, CORRIDORS 48'-2" MINIMUM DISTANCE BETWEEN DOORS REQUIRED (PER IBC 1002.1.1)

LOWER FLOOR COMMON PATH OF EGRESS TRAVEL

PATH NAME	PATH LENGTH
Common Path 0.1	52'-9"

LOWER FLOOR EXIT ACCESS TRAVEL DISTANCE

PATH NAME	PATH LENGTH
Exit Path 0.1	52'-9"

NOTE: PER IBC TABLE 1002.2 FOR SPACES WITH ONE EXIT, 50% OCCUPANCIES SHALL HAVE <100 OCCUPANTS

NOTE: PER IBC TABLE 1002.2 FOR SPACES WITH ONE EXIT, 50% OCCUPANCIES SHALL HAVE <100 OCCUPANTS

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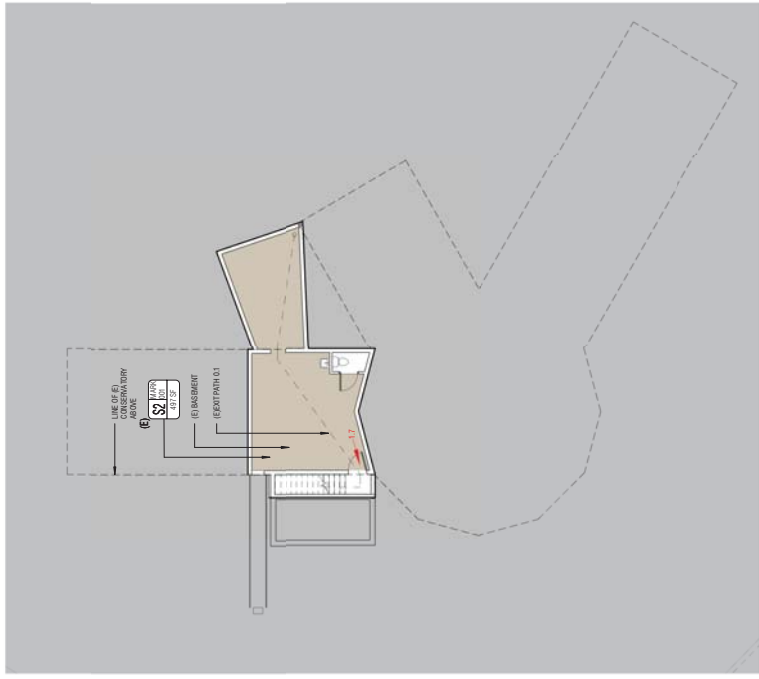
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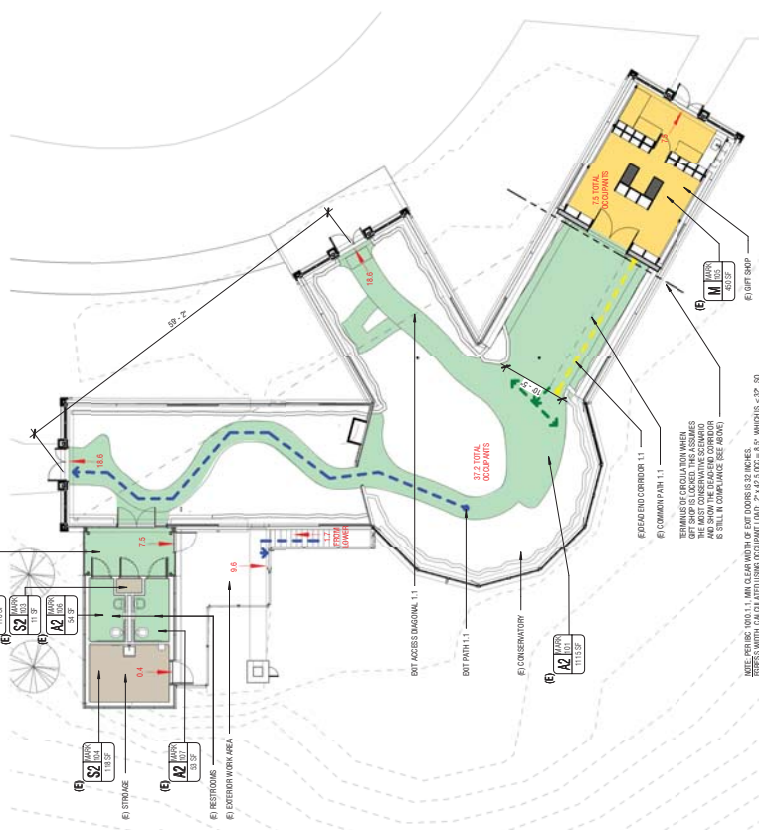
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NOTE: PER IBC TABLE 1002.2 FOR SPACES WITH ONE EXIT, 50% OCCUPANCIES SHALL HAVE <100 OCCUPANTS



1 BASEMENT PLAN 1" = 16'-0"



2 UPPER FLOOR 1" = 16'-0"

NOT FOR CONSTRUCTION



FIGURE 402.2.3  
 CLEAR WIDTH OF DOORWAYS  
 1/4" = 1'-0"

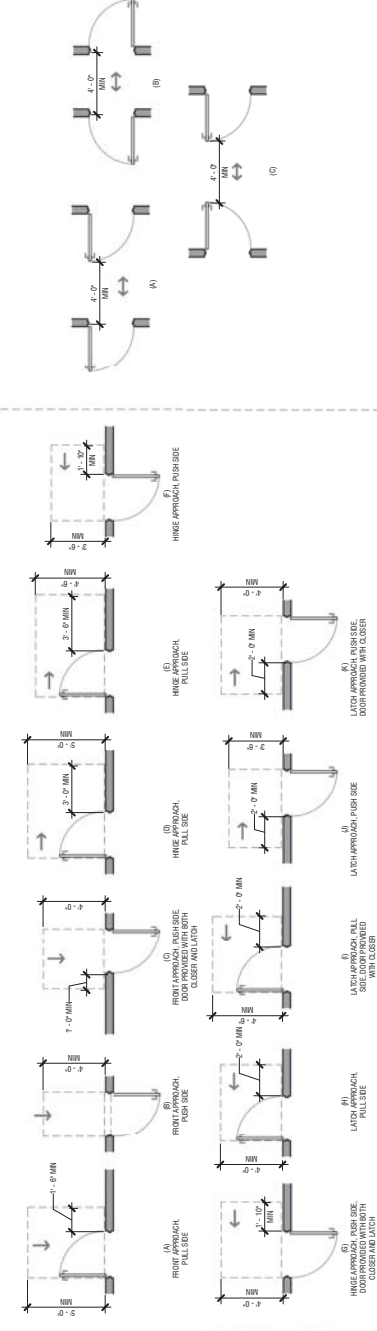


FIGURE 402.2.4  
 MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES  
 1/4" = 1'-0"



FIGURE 402.2.5  
 HEIGHT OF FINISHED CHARACTERS  
 1/4" = 1'-0"

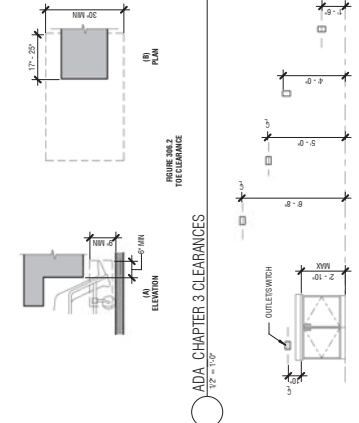


FIGURE 703.2.2  
 LOCATION OF TACTILE SIGNS AT DOORS  
 1/4" = 1'-0"

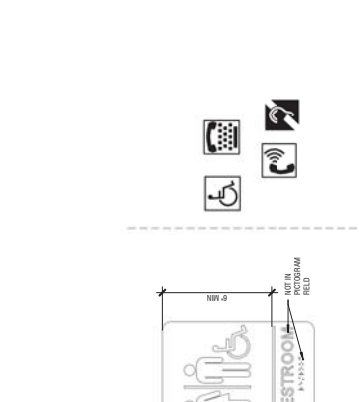


FIGURE 703.2.3  
 LOCATION OF TACTILE SIGNS AT DOORS  
 1/4" = 1'-0"

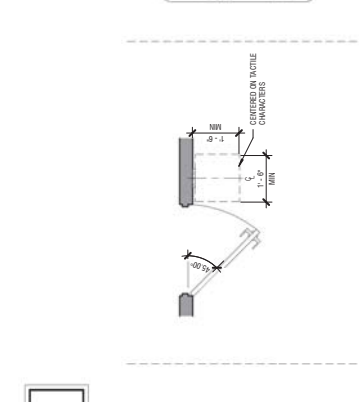


FIGURE 703.2.4  
 LOCATION OF TACTILE SIGNS AT DOORS  
 1/4" = 1'-0"

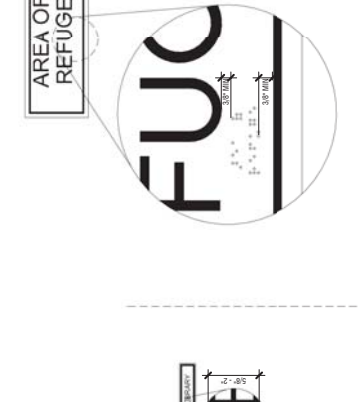


FIGURE 703.2.5  
 POSITION OF PANEL  
 1/4" = 1'-0"



FIGURE 304.2  
 ADA CHAPTER 3 CLEARANCES  
 1/4" = 1'-0"

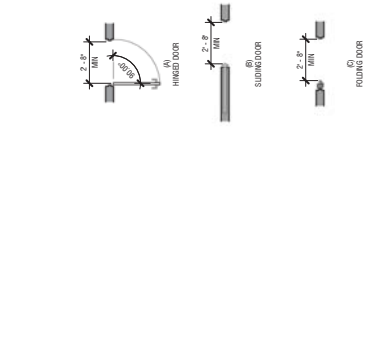


FIGURE 304.1  
 ADA CHAPTER 4 - DOOR CLEARANCES  
 1/4" = 1'-0"



FIGURE 304.2  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"

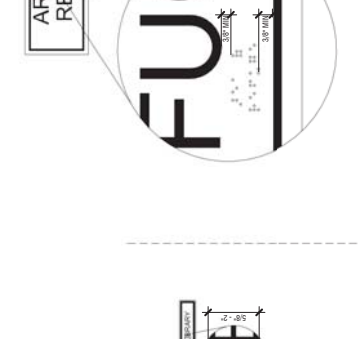


FIGURE 304.3  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.4  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.5  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.6  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.7  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.8  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.9  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.10  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.11  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.12  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.13  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.14  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"



FIGURE 304.15  
 ADA CHAPTER 7 COMMUNICATION ELEMENTS AND FEATURES  
 1/4" = 1'-0"

NOT FOR CONSTRUCTION

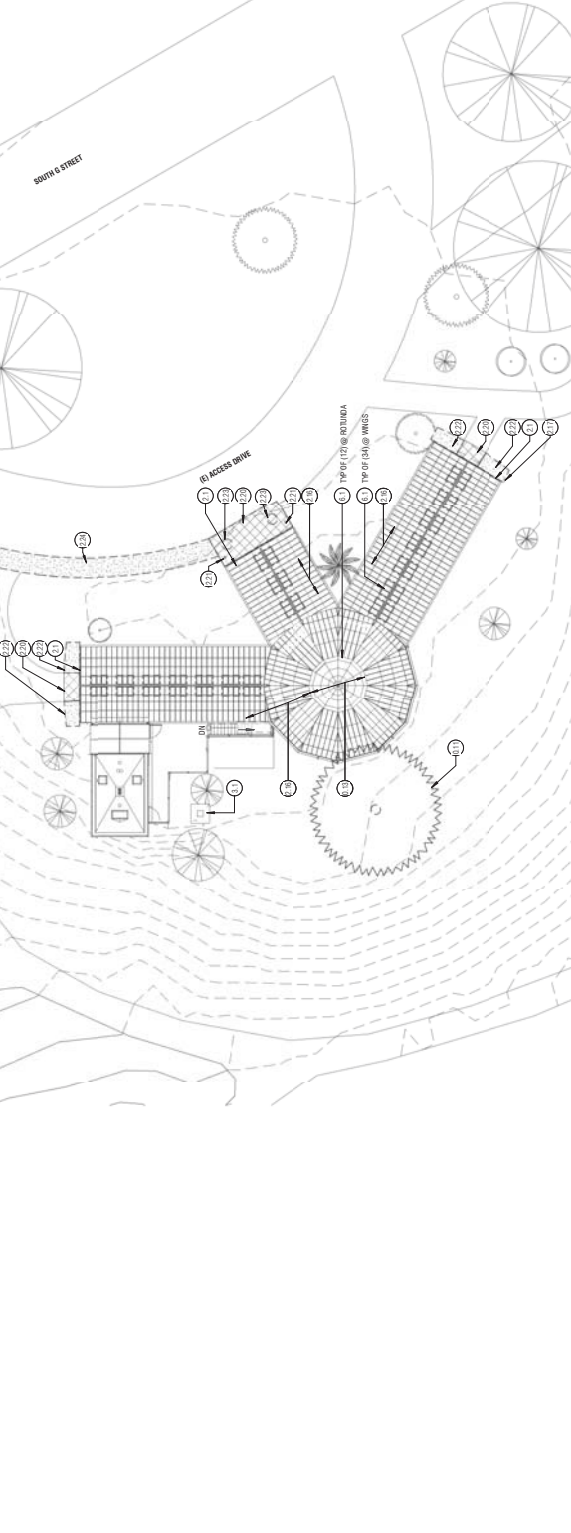
**KEYNOTE LEGEND**

- MARK**
- 0.1 DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  - 0.2 DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  - 0.3 DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  - 1.1 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.2 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.3 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.4 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.5 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.6 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.7 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.8 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 1.9 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 2.0 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 2.1 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 2.2 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 2.3 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 2.4 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 3.1 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING
  - 6.1 DEMO (E) GLAZING, VERTICAL AND HORIZONTAL STEEL ANGLES, LIGHTING, AND OTHER FINISHES TO BE DEMOLISHED AND REPAIRED FOR NEW GLAZING

- GENERAL NOTES:**
1. DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  2. DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  3. DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  4. REFER TO COST ESTIMATE MATERIAL QUANTITY AND UNIT PRICE SCHEDULE FOR MATERIAL QUANTITIES AND UNIT PRICES.

- DEMO LEGEND**
- DEMOLISH
  - DEM (E) WALL
  - DEM (E) WALL
  - DEM (E) CRANE OR PARTS
  - DEM (E) CONG SUB-BOTTOM GRADE
  - DEM (E) PAINTING

- GENERAL NOTES:**
1. DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  2. DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  3. DEMO (E) ROOF TO BE DEMOLISHED BY OWNER, CONFORM WITH IAP1
  4. REFER TO COST ESTIMATE MATERIAL QUANTITY AND UNIT PRICE SCHEDULE FOR MATERIAL QUANTITIES AND UNIT PRICES.



17 DEMO SITE PLAN / ROOF PLAN

NOT FOR CONSTRUCTION

60% CD

318 S 5<sup>TH</sup> TACOMA, WA 98402

W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

Drawn by: SK  
Checked: MAM  
Date: 11.10.19  
Scale: As Indicated  
Reference:  
No. Date Remarks

NETROPARKS

SHKS ARCHITECTS

12/02/2019 9:29:47 PM





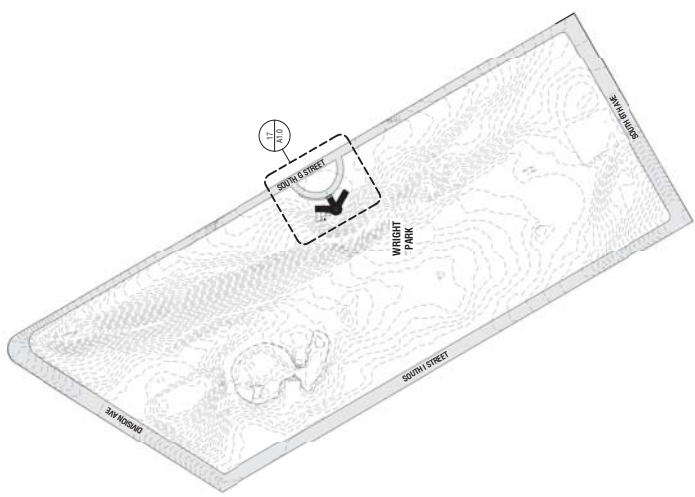
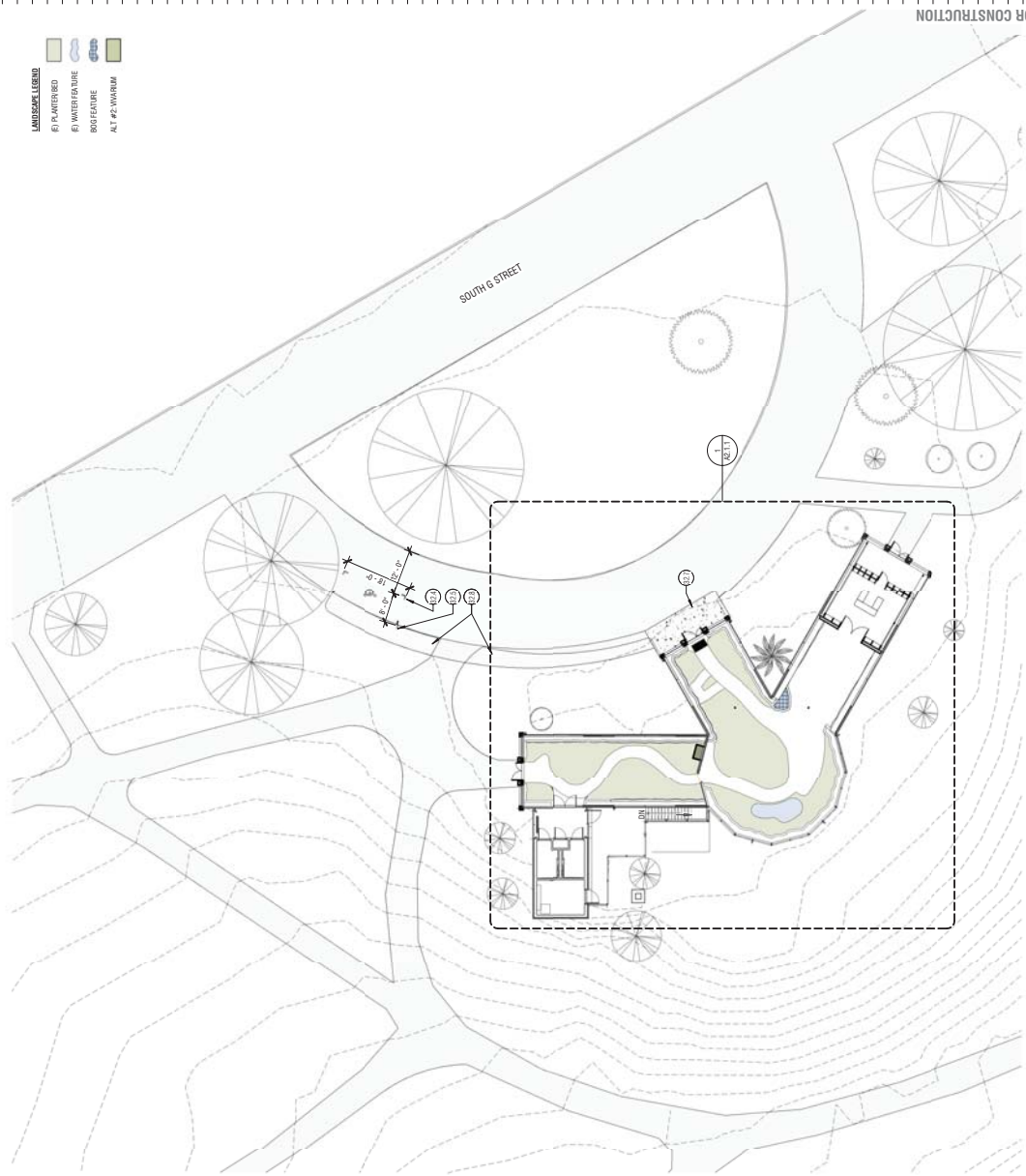
**KEYNOTE LEGEND**

MARK	KEYNOTE TEXT
12.4	ACCESSIBLE PARKING STALLS DRIVING
12.5	ACCESSIBLE PARKING STALL STORAGE
12.7	CONCRETE ENTRY
12.8	PAVEMENT FOR LANDSCAPE

11000 N. 30th Pl.  
 SHARON, WA 98149  
 Tel: 206.876.8151  
 www.shksarchitects.com

**LANDSCAPE LEGEND**

	P1 PAVED AREA
	P2 WATER FEATURE
	S1 SOFT FEATURE
	A1 #2-WARNING



W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

60% CD  
 318 S 6 ST TACOMA, WA 98402

Drawn by:	SK
Checked:	SK
Date:	11.10.18
Scale:	As Indicated
Reference:	
No.:	006
Date:	
Revised:	

NOT FOR CONSTRUCTION

SITE PLAN  
**A1.0**



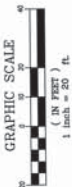
17 KEY PLAN  
 1/16" = 1'-0"



16 VICINITY PLAN  
 1" = 2000'

# W.W. SEYMOUR BOTANICAL CONSERVATORY

TOPOGRAPHIC SURVEY  
 A PORTION OF THE SOUTHEAST QUARTER OF SECTION 32, TOWNSHIP 21 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN,  
 CITY OF TACOMA, PIERCE COUNTY, WASHINGTON



METHODS AND EQUIPMENT  
 SURVEY PERFORMED WITH A TOTAL STATION, LEVEL, REFLECTOR, STEADY STATE DISTANCE MEASUREMENT SYSTEM (SSDMS), MICRO-STATION, AND A 5/16" DIA. HORNED HOLOGRAPHIC REFLECTOR. INSTRUMENTS CALIBRATED BY THE WASHINGTON STATE SURVEYORS BOARD. DATE OF CALIBRATION: 11/18/17.

HORIZONTAL DATUM  
 CITY OF TACOMA (NAD 83)  
 RED TO 101' ABOVE 1132.8' WGS 84 SPK BM 4900  
 SOURCE: WASHINGTON STATE SURVEYORS BOARD, 11/18/17  
 COMPARISON: 1" VERTICAL SCALE  
 SOURCE: WASHINGTON STATE SURVEYORS BOARD, 11/18/17

VERTICAL DATUM  
 CITY OF TACOMA (NAD 83)  
 RED TO 101' ABOVE 1132.8' WGS 84 SPK BM 4900  
 SOURCE: WASHINGTON STATE SURVEYORS BOARD, 11/18/17  
 COMPARISON: 1" VERTICAL SCALE  
 SOURCE: WASHINGTON STATE SURVEYORS BOARD, 11/18/17

SURVEY NOTES

1. ALL SURVEY POINTS WERE LOCATED BY FIELD SURVEY (ELECTRONIC DATA COLLECTION ON 11/28/17 & 11/29/17).
2. CONTROL POINTS WERE ONE-DAY AND WERE DETERMINED FROM SURVEY FIELD DATA. CONTROL POINTS WERE SET UP IN THE FORM OF METAL BARS AND WERE BENCHMARKS AS DESCRIBED IN SURVEY NOTES.
3. ALL SURVEY POINTS WERE LOCATED ON ANY SURFACE CONDITIONS OF RECORD THAT MAY EXIST THAT ARE UNRECOVERABLE AND/OR NOT VISIBLE.
4. THE PURPOSE OF THIS SURVEY IS TO PROVIDE A TOPOGRAPHIC MAP OF EXISTING SURFACE CONDITIONS AND TO PROVIDE A TOPOGRAPHIC MAP OF EXISTING SURFACE CONDITIONS.
5. THIS SURVEY WAS PERFORMED FOR THE PURPOSE OF PROVIDING A TOPOGRAPHIC MAP OF EXISTING SURFACE CONDITIONS AND TO PROVIDE A TOPOGRAPHIC MAP OF EXISTING SURFACE CONDITIONS.
6. SURVEY CONTROL POINTS WERE SET UP ON THE SURFACE OF THE CONSERVATORY BUILDING AND WERE USED TO DETERMINE THE SURVEY CONTROL POINTS. THE SURVEY CONTROL POINTS WERE SET UP IN THE FORM OF METAL BARS AND WERE BENCHMARKS AS DESCRIBED IN SURVEY NOTES.
7. SURVEY POINTS WERE LOCATED BY FIELD SURVEY (ELECTRONIC DATA COLLECTION ON 11/28/17 & 11/29/17).
8. ALL SURVEY POINTS WERE LOCATED BY FIELD SURVEY (ELECTRONIC DATA COLLECTION ON 11/28/17 & 11/29/17).
9. ALL SURVEY POINTS WERE LOCATED BY FIELD SURVEY (ELECTRONIC DATA COLLECTION ON 11/28/17 & 11/29/17).
10. ALL SURVEY POINTS WERE LOCATED BY FIELD SURVEY (ELECTRONIC DATA COLLECTION ON 11/28/17 & 11/29/17).

DATE REAILED: 1/24/2017

PROJECT MANAGER: \_\_\_\_\_

SIGNATURES: \_\_\_\_\_

REV NO	DESCRIPTION	DATE

SCALE: 1" = 20'  
 DATE: 1-25-17  
 DBC NO:  
 DRAWN: JRS  
 CHECKED: JRS  
 T 21 N  
 R 3 E

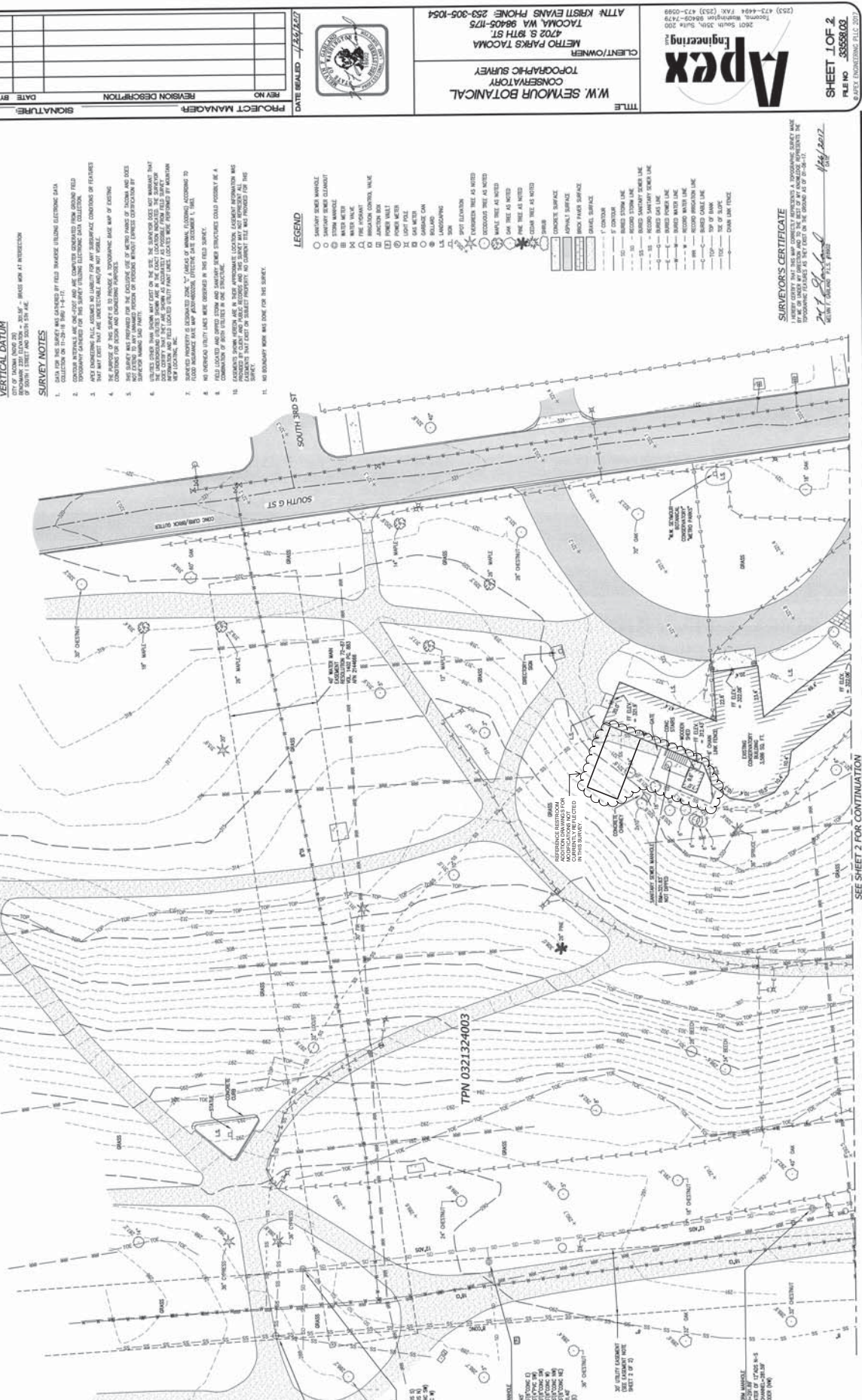
CITY OF TACOMA  
 4702 S 9TH ST  
 TACOMA, WA 98405-1175  
 ATTN: KRISTI EVANS  
 PHONE: 253-905-1054

CLIENT/OWNER:  
 METRO PARKS TACOMA  
 CONSERVATORY  
 TOPOGRAPHIC SURVEY

TITLE:  
 W.W. SEYMOUR BOTANICAL CONSERVATORY

Apex Engineering  
 2601 SOUTH 318th AVE., SUITE 200  
 TACOMA, WA 98409-7428  
 (206) 473-4949 FAX: (206) 473-0999

SHEET J.O.F. 2  
 FILE NO. 36358102  
 © PEY ENGINEERING, PLC 2017



UTILITY SURVEYS  
 WEST - 60" OCCASION  
 EAST - 12" OCCASION  
 NORTH - 60" OCCASION  
 SOUTH - 60" OCCASION

TPN 0321324003

LEGEND

- SURVEY POINT
- SURVEY POINT (ELECTRONIC)
- SURVEY POINT (METAL)
- SURVEY POINT (WOOD)
- SURVEY POINT (CONCRETE)
- SURVEY POINT (STEEL)
- SURVEY POINT (ALUMINUM)
- SURVEY POINT (COPPER)
- SURVEY POINT (ZINC)
- SURVEY POINT (SILVER)
- SURVEY POINT (GOLD)
- SURVEY POINT (PLATINUM)
- SURVEY POINT (DIAMOND)
- SURVEY POINT (JEWELRY)
- SURVEY POINT (METALS)
- SURVEY POINT (NON-METALS)
- SURVEY POINT (COMPOUNDS)
- SURVEY POINT (MIXTURES)
- SURVEY POINT (SOLIDS)
- SURVEY POINT (LIQUIDS)
- SURVEY POINT (GASES)
- SURVEY POINT (PLASMA)
- SURVEY POINT (RADIATION)
- SURVEY POINT (MAGNETIC)
- SURVEY POINT (ELECTRIC)
- SURVEY POINT (THERMAL)
- SURVEY POINT (ACoustic)
- SURVEY POINT (OPTIC)
- SURVEY POINT (MECHANICAL)
- SURVEY POINT (CHEMICAL)
- SURVEY POINT (PHYSICAL)
- SURVEY POINT (MATHEMATICAL)
- SURVEY POINT (SCIENCE)
- SURVEY POINT (ART)
- SURVEY POINT (HUMANITIES)
- SURVEY POINT (SOCIAL SCIENCES)
- SURVEY POINT (NATURAL SCIENCES)
- SURVEY POINT (EARTH SCIENCES)
- SURVEY POINT (LIFE SCIENCES)
- SURVEY POINT (PHYSICAL SCIENCES)
- SURVEY POINT (MEDICAL SCIENCES)
- SURVEY POINT (ENGINEERING)
- SURVEY POINT (TECHNOLOGY)
- SURVEY POINT (BUSINESS)
- SURVEY POINT (LAW)
- SURVEY POINT (POLITICAL SCIENCE)
- SURVEY POINT (HISTORY)
- SURVEY POINT (LITERATURE)
- SURVEY POINT (LANGUAGE)
- SURVEY POINT (CULTURE)
- SURVEY POINT (RELIGION)
- SURVEY POINT (PHILOSOPHY)
- SURVEY POINT (ECONOMICS)
- SURVEY POINT (SOCIOLOGY)
- SURVEY POINT (PSYCHOLOGY)
- SURVEY POINT (EDUCATION)
- SURVEY POINT (ENVIRONMENTAL SCIENCE)
- SURVEY POINT (CLIMATE SCIENCE)
- SURVEY POINT (Astronomy)
- SURVEY POINT (Cosmology)
- SURVEY POINT (Astrophysics)
- SURVEY POINT (Astrobiology)
- SURVEY POINT (Cosmology)
- SURVEY POINT (Astrobiology)

SURVEYOR'S CERTIFICATE

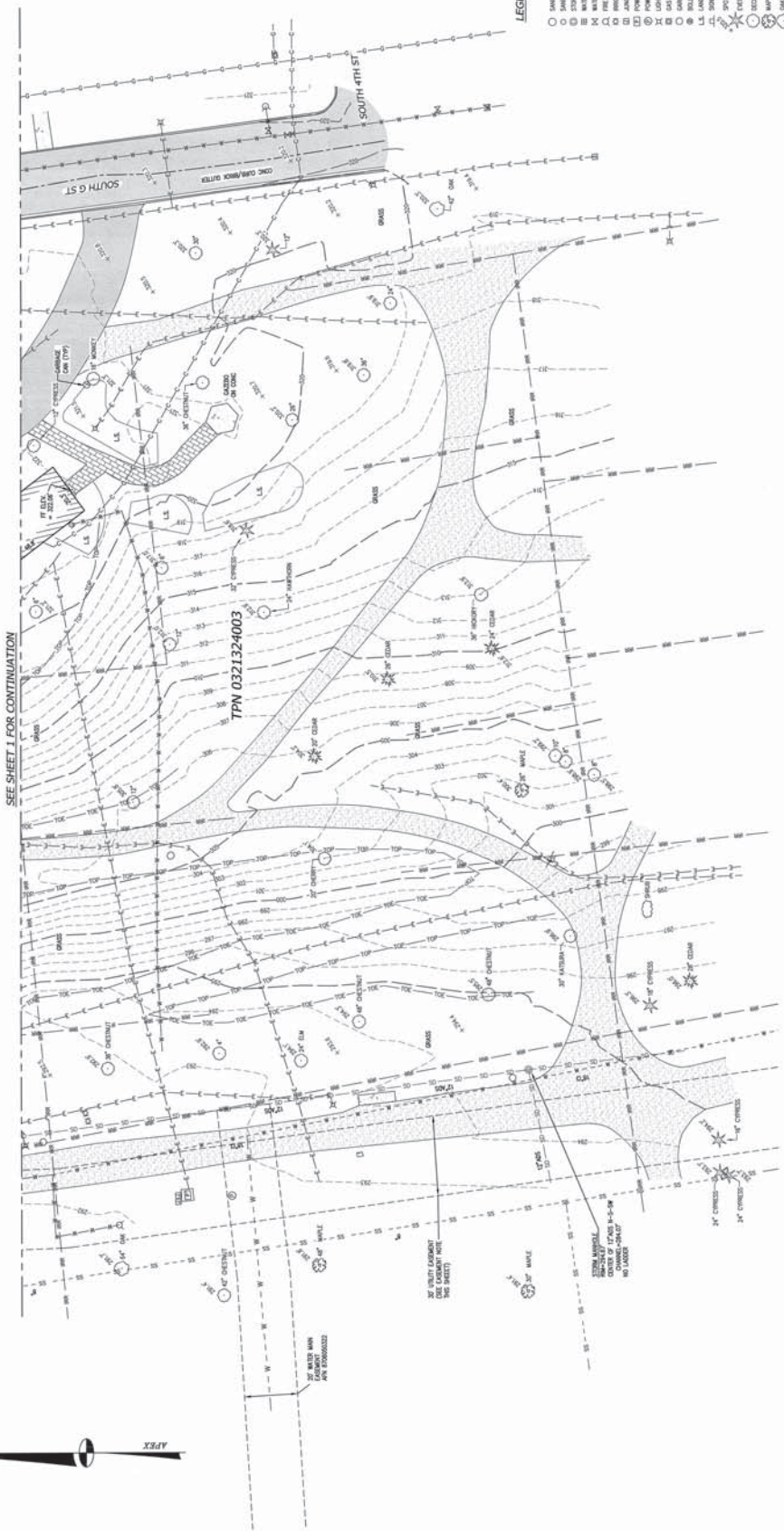
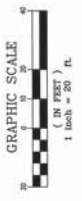
I, \_\_\_\_\_, Registered Professional Engineer, State of Washington, License No. \_\_\_\_\_, do hereby certify that the foregoing is a true and correct copy of the original as shown to me by the engineer in charge of the work.

DATED: 1/25/17

# W.W. SEYMOUR BOTANICAL CONSERVATORY

## TOPOGRAPHIC SURVEY

A PORTION OF THE SOUTH-EAST QUARTER OF SECTION 32, TOWNSHIP 21 NORTH, RANGE 3 EAST OF THE WILLAMETTE MERIDIAN,  
CITY OF TACOMA, PIERCE COUNTY, WASHINGTON



**EASEMENT NOTE**  
 A UTILITY EASEMENT GRANTED TO TACOMA POWER WAS RECORDED IN THE PUBLIC RECORDS OF PIERCE COUNTY, WASHINGTON. THE LOCATION AND BOUNDARIES OF THIS EASEMENT ARE SHOWN ON THIS SHEET FOR INFORMATION ONLY. THE LOCATION AND BOUNDARIES OF THIS EASEMENT ARE SUBJECT TO REVISIONS IN PUBLIC RECORDS.

- LEGEND**
- SPARKY TREE MARKER
  - SPARKY TREE SLANDIT
  - STORM MANHOLE
  - TELEPHONE POLE
  - WALK
  - FIRE HYDRANT
  - PROPOSED CONTROL VALVE
  - POWER METER
  - LIGHT POLE
  - GAS METER
  - BALL VALVE
  - SPOT ELEVATION
  - EXISTING TREE AS NOTED
  - PROPOSED TREE AS NOTED
  - MARK TREE AS NOTED
  - TREE AS NOTED
  - CONTOUR TREE AS NOTED
  - CONTOUR
  - CONCRETE SURFACE
  - ASPHALT SURFACE
  - BRICK PAVED SURFACE
  - GRAVEL SURFACE
  - 5' CONTOUR
  - 10' CONTOUR
  - 15' CONTOUR
  - 20' CONTOUR
  - 25' CONTOUR
  - 30' CONTOUR
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  - 45' CONTOUR
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  - 1000' CONTOUR

DESIGN	CHECKED	DATE	SIGNATURE
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9/25	9/25		
9/25	9/25		
9/25	9/25		
9/25	9/25		
9/25	9/25		



**TITLE**  
 W.W. SEYMOUR BOTANICAL CONSERVATORY TOPOGRAPHIC SURVEY  
**CLIENT/OWNER**  
 METRO PARKS TACOMA  
 4702 S. 19TH ST.  
 TACOMA, WA 98405-1775  
 ATTN: KRISTI EVANS PHONES: 253-905-1054

**Apex Engineering**  
 2001 South 29th Street, Suite 200  
 Tacoma, Washington 98409-4719  
 (253) 473-4444 FAX: (253) 473-0599  
**SHEET 2 OF 2**  
 FILE NO. 355598.03  
 SAFETY ENGINEERING PALL 2012

1000 N. 34th St.  
 Suite 100, Phoenix, AZ 85018  
 Phone: (602) 998-8888  
 Fax: (602) 998-8889

222 North Central  
 Phoenix, AZ 85004  
 Phone: (602) 998-8888  
 Fax: (602) 998-8889

W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

60% CD  
 PRICING SET  
 315 S.E. 74th AVE, WAKA, WA 98149

Drawn by:	Checked:	Date:	Project:
CSM/AM	EL 10.10		
Scale:	Project:	Sheet:	Remarks:

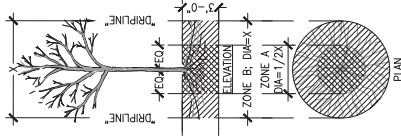
PLANT PROTECTION PLAN  
 L0.1.1

PLANT PROTECTION NOTES

- PROTECT SPECIFIED EXISTING INTERIOR PLANTS AND TREES INDICATED TO REMAIN ON SITE DURING CONSTRUCTION. OWNER WILL ASSIST IN IDENTIFICATION OF PLANTS TO REMAIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL OTHER INTERIOR PLANTS PRIOR TO START OF CONSTRUCTION.
- ENSURE ALL INTERIOR PLANTS TO REMAIN RECEIVED ADEQUATE LIGHT AND HEAT THROUGHOUT CONSTRUCTION AS DETERMINED BY OWNER.
- PROTECT SPECIFIED EXISTING EXTERIOR PLANTS AND TREES INDICATED TO REMAIN ON SITE DURING CONSTRUCTION. OWNER TO ASSIST IN IDENTIFICATION OF PLANTS TO REMAIN AND PLANTS TO BE REMOVED PRIOR TO START OF CONSTRUCTION.
- MAINTAIN ALL PLANTING AREAS THAT ARE NOT FREELY ACCESSIBLE TO OWNERS. FENCE THESE AREAS TO PROTECT THEM FROM WEEDS AT ALL TIMES. ENSURE THAT ALL PLANTS RECEIVE ADEQUATE IRRIGATION THROUGHOUT CONSTRUCTION.
- MAINTAIN ACCESS TO INTERIOR PLANTING TO REMAIN FOR PERIODIC CARE AND MAINTENANCE BY OWNER THROUGHOUT CONSTRUCTION.
- NOTIFY OWNER IF ANY TO REMAIN PLANTS AND THEIR LOCATIONS ARE IN CONFLICT WITH THE WORK FOR THIS CONTRACT.

TREE/PLANT PROTECTION LEGEND

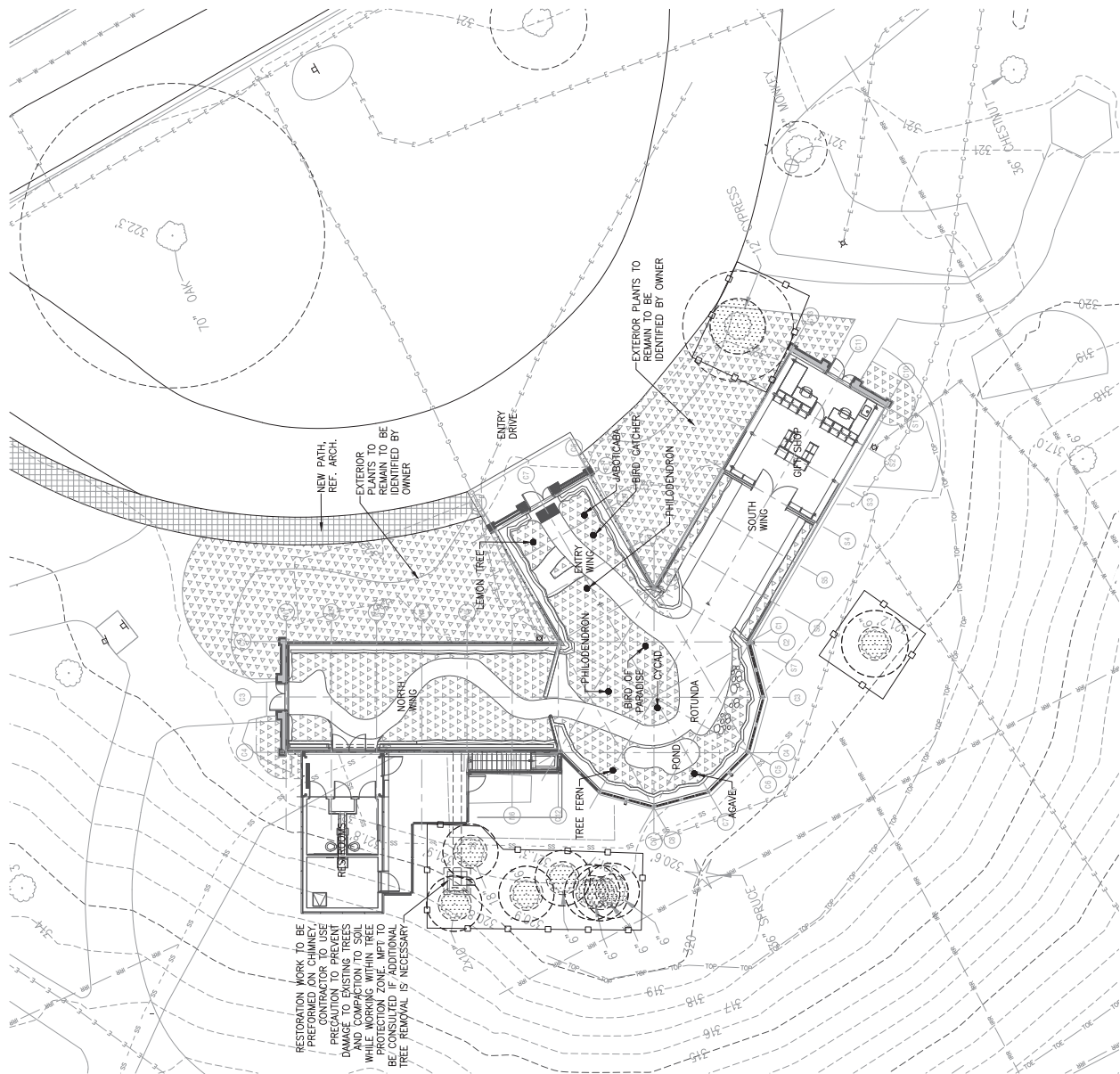
- EXIST. TREE - TO BE PROTECTED IN PLACE
- EXIST. TREE - REMOVE
- TREE DRIFLINE
- TREE CRITICAL ROOT ZONE
- TREE PROTECTION FENCE
- INTERIOR TREE PLANT TO REMAIN AND BE PROTECTED IN PLACE. LOCATIONS ARE APPROXIMATE. COORDINATE EXTENTS OF PLANT PROTECTION WITH OWNER.



- TREE PROTECTION NOTES:
- CONTRACTOR TO HIRE A PROFESSIONAL ARBORIST (PROJECT ARBORIST) TO PREPARE TREE VEGETATION AND SOIL PROTECTION PLAN (TVSPP) AND DIRECT ON PRUNING BRANCHES AND ROOTS, FERTILIZING AND WATERING.
  - CONTRACTOR TVSPP AND STAGING PLAN SHALL INCORPORATE CONSTRUCTION MATERIAL STORAGE PROHIBITION WITHIN TREE DRIFLINE. MATERIALS SHALL NOT BE STORED OR EQUIPMENT, DISPOSED OF ANY MATERIALS, SUPPLIES OR FLUIDS WITHIN DRIFLINE.
  - INSTALL 3" DEPTH BARK MULCH ACROSS ENTIRE DRIFLINE AREA (ZONE B) PRIOR TO INSTALLING PROTECTION FENCING.
  - DO NOT CUT OR DISTURB ROOTS 3" IN DIAMETER OR LARGER. CONTRACTOR TO CONFIRM ALL ROOT DISTURBANCE WITH PROJECT ARBORIST.

EXTERIOR TREE PROTECTION DURING CONSTRUCTION

2 NOT TO SCALE



RESTORATION WORK TO BE PERFORMED ON CHIMNEY. CONTRACTOR TO USE CARE TO AVOID DAMAGE TO EXISTING TREES AND COMPACTION TO SOIL WHILE WORKING WITHIN TREE PROTECTION ZONE. MPT TO BE CONSULTED IF ADDITIONAL TREE REMOVAL IS NECESSARY.

1 PLANT PROTECTION PLAN  
 SCALE: 1"=10'-0"

1000 N. 34th St.  
 Seattle, WA 98103  
 Tel: 206.478.8181  
 www.shkarchitects.com

616 W. Washington  
 Kirkland, WA 98033  
 Tel: 206.835.5555  
 www.kirklandshk.com

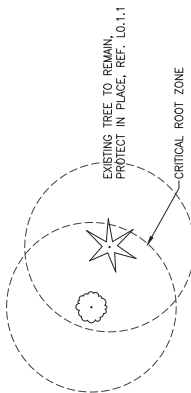
W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

60% CD  
 PRICING SET  
 718 S. ST. TACOMA, WA 98402

Drawn by: \_\_\_\_\_  
 Checked: \_\_\_\_\_  
 Date: 03.10.19  
 Scale: \_\_\_\_\_  
 Project: \_\_\_\_\_  
 No. \_\_\_\_\_ Date: \_\_\_\_\_  
 Remarks: \_\_\_\_\_

PLANTING PLAN  
 L2.1.1

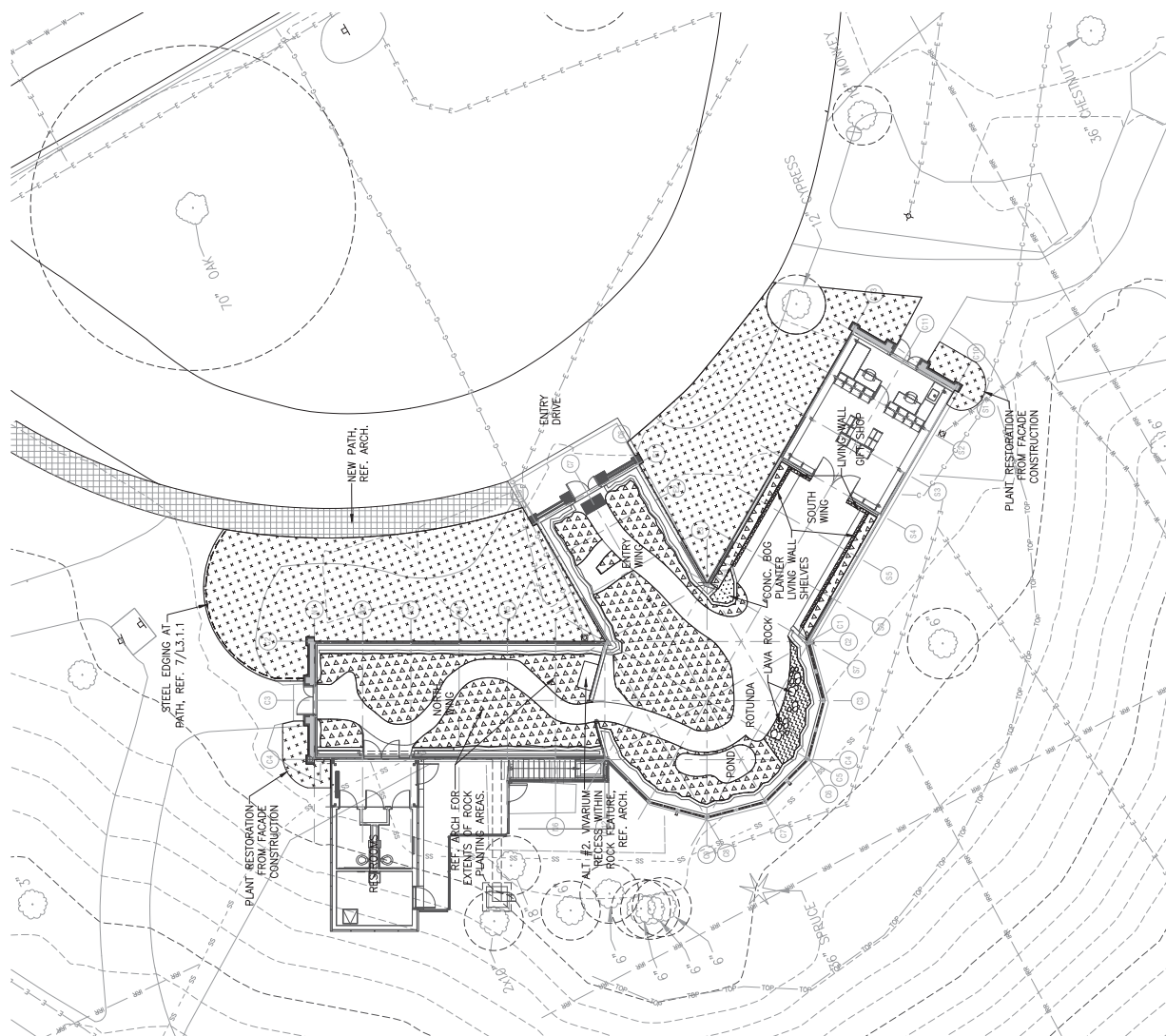
PLANTING LEGEND



EXTERIOR PLANTING SCHEDULE

SYMBOL	TYPE	QUANTITY	PLANT NOTES
[Symbol: Dotted pattern]	OUTDOOR ENTRY PLANTING	2,200 SF	\$7/SF
INTERIOR PLANTING SCHEDULE			
[Symbol: Triangle pattern]	EXISTING INTERIOR PLANTINGS	1,270 SF	ASSUME 25% REPLACEMENT OF EXISTING INTERIOR PLANTS DUE TO LOSS DURING RENOVATION PROCESS. \$20/SF.
[Symbol: Diagonal line pattern]	XERIC PLANTING	60 SF	\$20/SF
[Symbol: Square pattern]	BOG PLANTING	13 SF	\$20/SF
[Symbol: Horizontal line pattern]	LIVING WALL PLANTING (GIFT SHOP)	160 SF	\$12/SF
[Symbol: Vertical line pattern]	LIVING WALL PLANTING (SHELVES)	115 SF	\$12/SF

NOTES:  
 1. REFER TO SHEETS L2.1.2 FOR SOILS PLAN  
 2. PLANT SELECTION TO BE COORDINATED WITH SEYMOUR CONSERVATORY STAFF AND METRO PARKS.  
 3. PLANTS TO BE PROCURED THROUGH SPECIALTY NURSERIES, ANTICIPATE HIGHER UNIT COSTS COMPARED TO COMMERCIAL NURSERIES.



1000 N. 34th St.  
Seattle, WA 98103  
Tel: 206.478.8181  
www.shksarchitects.com

60% CD  
W.W. Seymour  
222 First Street  
Tacoma, WA 98402  
Tel: 252.383.5555  
www.wwsseymour.com

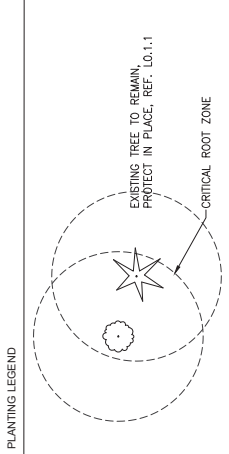
W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
PRICING SET  
735 S.E. TAZAWA, WA 98402

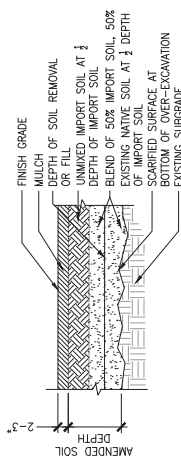
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Checked: \_\_\_\_\_  
Date: 01.10.19  
Scale: \_\_\_\_\_  
Project: \_\_\_\_\_  
No.: \_\_\_\_\_  
Date: \_\_\_\_\_  
Remarks: \_\_\_\_\_

SOILS PLAN  
L2.1.2

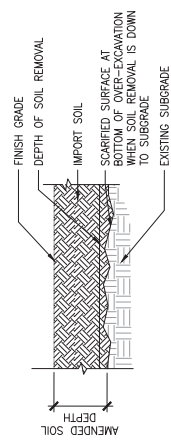
NOTES:  
1. REFER TO SHEETS L2.1.1 FOR EXISTING SOIL CONDITIONS.  
2. DURING SOIL INSTALLATION GREAT CARE MUST BE TAKEN TO AVOID DAMAGE TO EXISTING PLANTS TO REMAIN AND BE DONE UNDER THE SUPERVISION OF METRO PARKS LANDSCAPE ARCHITECT.



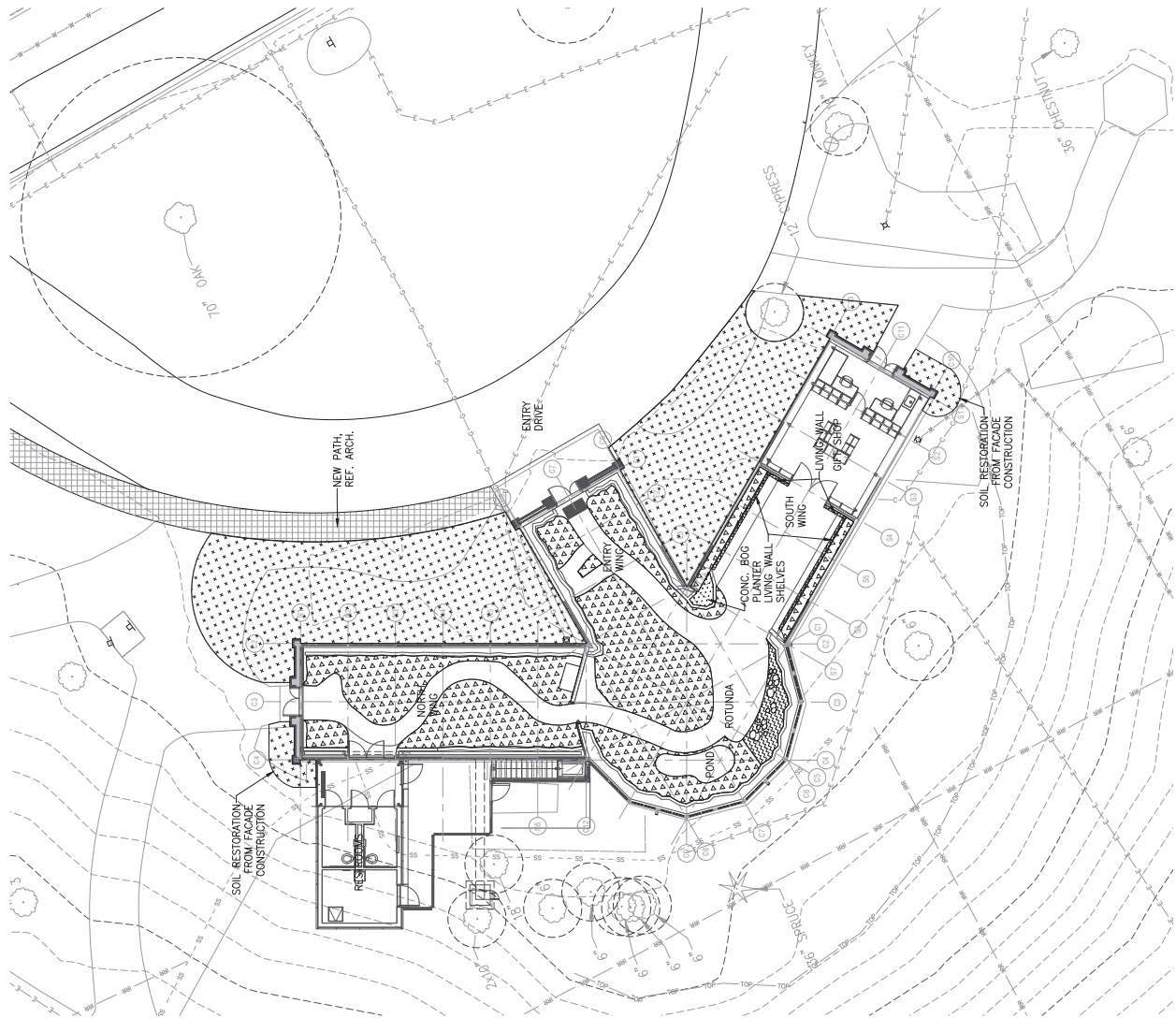
SYMBOL	TYPE	QUANTITY	NOTES
	TYPE A: BIOTRETION MIX FOR EXTERIOR PLANTINGS	2,200 SF	SELECTIVELY REMOVE AND REPLACE 50% AT 12" DEPTH. REMAINING EXISTING SOIL TO BE SCARIFIED AROUND EXISTING PLANTS. 50% OF EXISTING PLANTS TO BE REPLACED AT A 2'-4" DEPTH.
	EXTERIOR SOILS SCHEDULE TYPE B: CONSERVATORY SOIL MIX	1,270 SF	REMOVE AND REPLACE AT 8" DEPTH AROUND ALL EXISTING PLANTS, REF. SPECS.
	TYPE C: XERIC SOIL MIX	60 SF	REMOVE AND REPLACE AT 8" DEPTH, REF. SPECS.
	TYPE D: BOG SOIL MIX	13 SF	AT 12" DEPTH, REF. SPECS.
	TYPE E: EPIPHYTE SOIL MIX	6 CF	TO BE PLACED AS PLANTING INFILL AROUND ROCKS AND ROCK WALLS REF. SPECS.
	SUPPLEMENTAL LIVING WALL MEDIA	275 SF	REF. SPECS.



2 EXTERIOR PLANTING SOIL PREPARATION  
SCALE: 1" = 1'-0"



3 INTERIOR PLANTING SOIL PREPARATION  
SCALE: 1" = 1'-0"



1 LANDSCAPE SOILS PLAN  
SCALE: 1" = 16'-0"



SYMBOL	TYPE	QUANTITY	IRRIGATION NOTES
	AMEND EXISTING IRRIGATION	2,200 SF	AMENDMENT TO EXISTING IRRIGATION SYSTEM FROM CONSTRUCTION DISTURBANCE. ADDITIONAL PLANTINGS, AND SOIL PLACEMENT SHOULD BE INSTALLED TO MAINTAIN ORIGINAL CONDITION WITH HEAD TO HEAD COVERAGE AND WITH LIKE MATERIAL

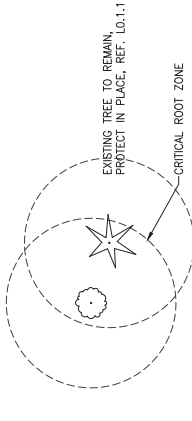
EXTERIOR IRRIGATION NOTES:

1. PROTECT EXISTING IRRIGATION. AMEND AS NECESSARY TO PROVIDE FULL COVERAGE OF PLANTING AREAS.
2. NEW IRRIGATION TO BE CONNECTED TO EXISTING SYSTEM.

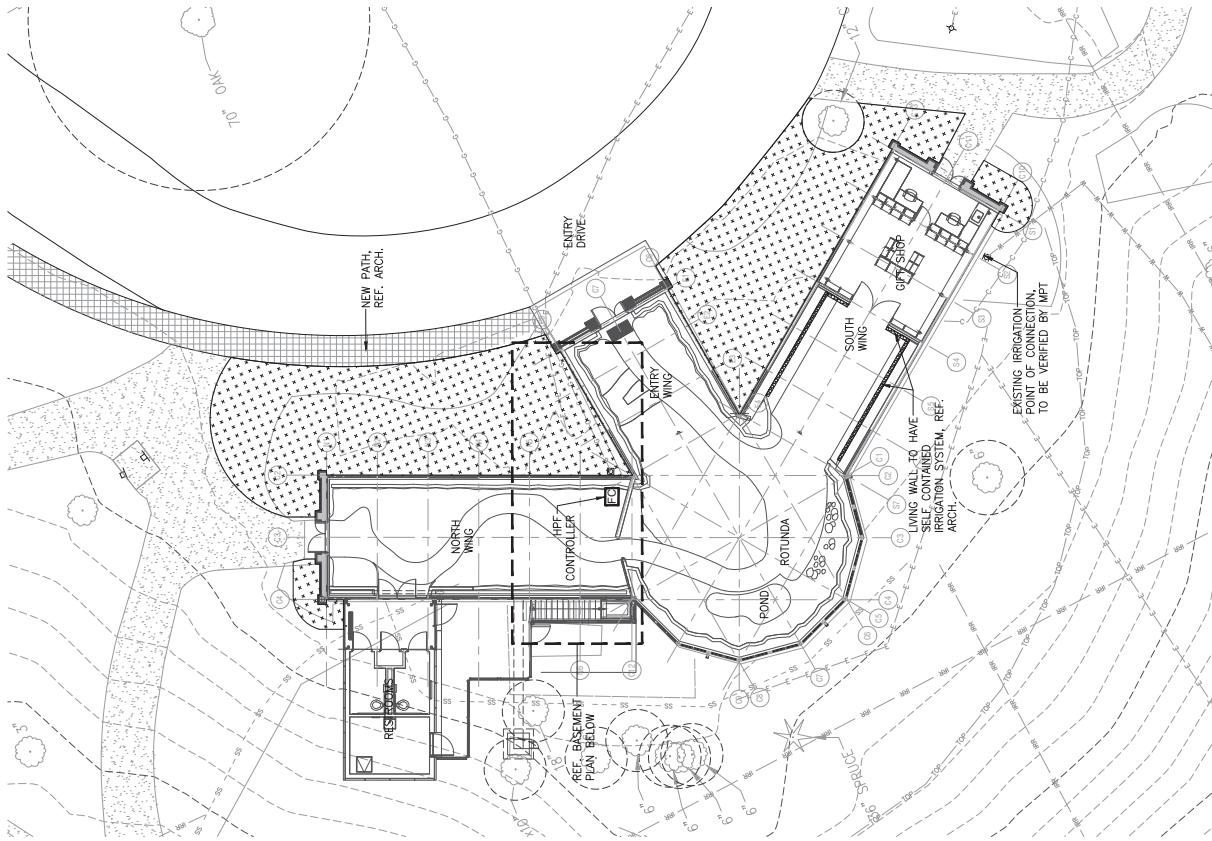
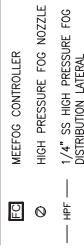
HIGH PRESSURE FOG SYSTEM NOTES:

- 1) PIPE ROUTING SHOWN IS DIAGRAMMATIC. ALL PIPE RUNS SHALL BE DETAILED AND COORDINATED WITH MECHANICAL ENGINEER, BUILDING CONTRACTOR, BUILDING SYSTEMS AND FOG SYSTEM MANUFACTURER.
- 2) FOG SYSTEM TO BE MEEFOG INC. HORTICULTURAL FOG LINE SYSTEM OR APPROVED EQUAL.
- 3) FINAL PIPE RUNS AND PIPE LOCATIONS TO BE DETERMINED BY MECHANICAL CONTRACTOR AND ENGINEER. PIPE RUNS TO BE ATTACHED TO CONSERVATORY STEEL FRAMING MANUFACTURER. PROVIDE ADEQUATE WATER PRESSURE AND FLOW DEMANDS.
- 4) PIPE SIZES TO BE DETERMINED BY MECHANICAL ENGINEER AND FOG SYSTEM MANUFACTURER. PROVIDE ADEQUATE WATER PRESSURE AND FLOW DEMANDS.
- 5) ALL PIPING REQUIRING GRAVITY DRAINAGE SHALL BE SLOPED TO DRAIN
- 6) FOG NOZZLES TO BE LOCATED WITH LANDSCAPE ARCHITECT PRESENT.
- 7) CONTRACTOR TO PROVIDE THE FOLLOWING ADDITIONAL FOG SYSTEM COMPONENTS:
  - A. (5) ADDITIONAL 1" SS FOG NOZZLE RISERS
  - B. (30) INCHES OF 1" DISTRIBUTION TUBING
  - C. (5) 1" MOUNTING CLAMPS

EXTERIOR IRRIGATION LEGEND

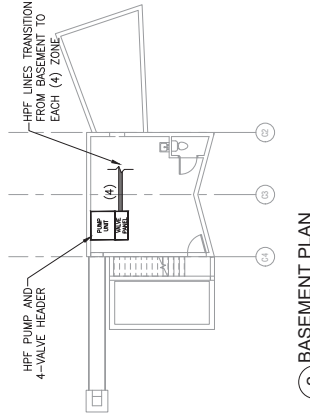


HIGH PRESSURE FOG LEGEND

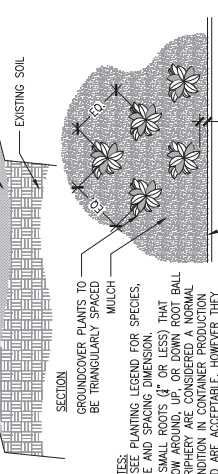


1 LANDSCAPE PLANTING PLAN  
SCALE: 1" = 10'-0"

2 REFLECTED CEILING PLAN  
SCALE: 1" = 10'-0"

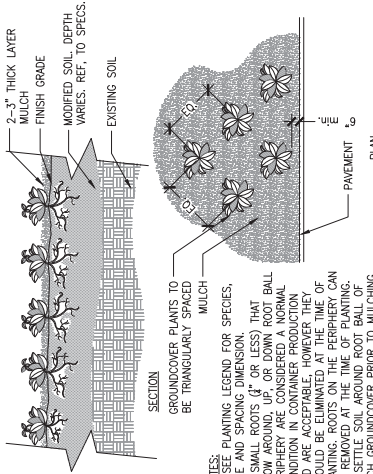






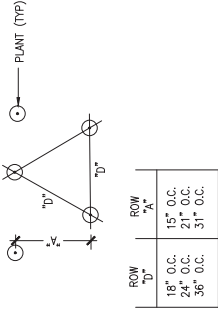
**1** GROUNDCOVER DETAIL  
SCALE: 3/4" = 1'-0"

NOTES:  
1. SEE PLANTING LEGEND FOR SPECIES AND SIZE.  
2. SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP, OR DOWN ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE. PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING.  
3. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

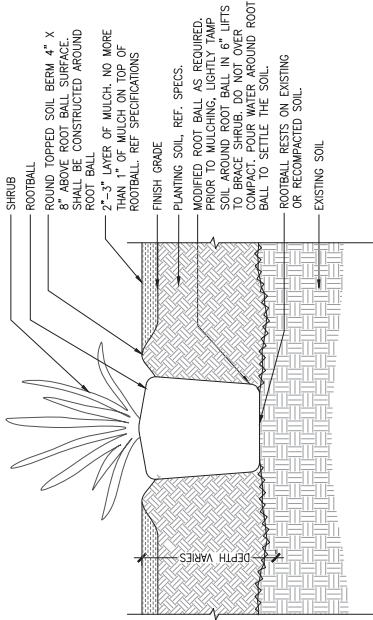


**2** GROUNDCOVER  
SCALE: 3/4" = 1'-0"

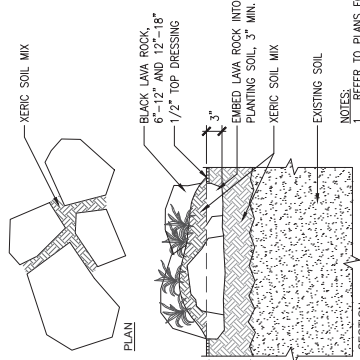
NOTES:  
1. SEE PLANTING LEGEND FOR SPECIES, SIZE AND SPACING DIMENSION.  
2. SMALL ROOTS (1/2" OR LESS) THAT GROW AROUND, UP, OR DOWN ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE. HOWEVER, THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING.  
3. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.



**3** PLANT SPACING DIAGRAM  
SCALE: N.T.S.

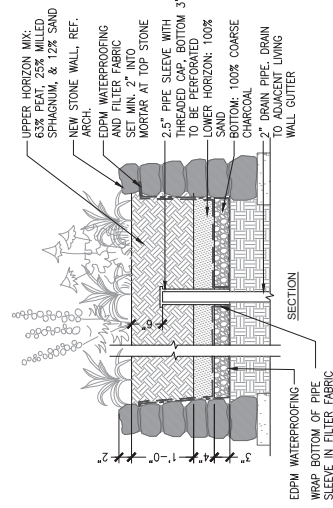


**4** SHRUB PLANTING  
NOT TO SCALE



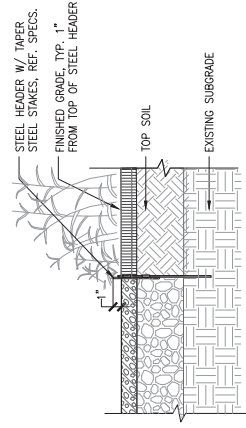
**5** XERIC PLANTING IN LAVA ROCK  
SCALE: 1" = 1'-0"

NOTES:  
1. REFER TO PLANS FOR QUANTITY OF LAVA ROCK



**6** BOG PLANTING AT STONE PLANTER  
SCALE: 1" = 1'-0"

NOTES:  
1. PROTECT PLANTING BED FROM CONTAMINATION BY CHEMICALS INCLUDING SOLVENTS, SALTS, ETC. ADD NO FERTILIZERS OR AMENDMENTS



**7** STEEL EDGING  
SCALE: 1-1/2" = 1'-0"

**GENERAL NOTES:**  
 1. REFER TO ALL DRAWINGS FOR SPECIFICATIONS.  
 2. PROTECT EXISTING WORK.  
 3. PROTECT EXISTING INTERIOR.  
 4. REFER TO ELECTRICAL FOR LIGHTING SCOPE.

**LANDSCAPE LEGEND**

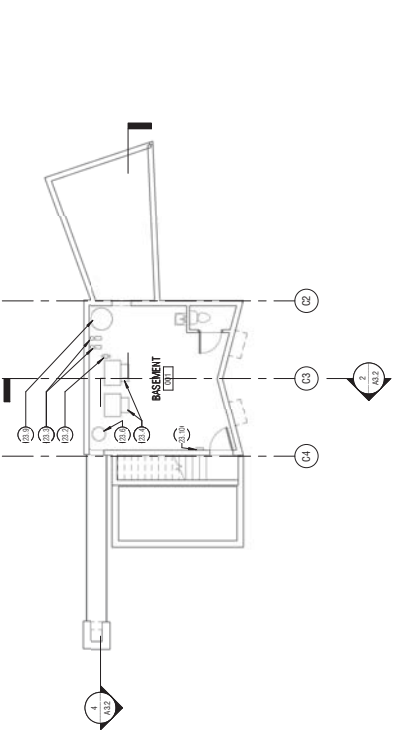
- (P) PLANTER BED
- (W) WATER FEATURE
- (B) BIODEGRADABLE
- (A) ASPHALT
- (G) GRASS
- (S) SAND
- (R) ROCK
- (L) LANDSCAPE LIGHTING

**WALL LEGEND**

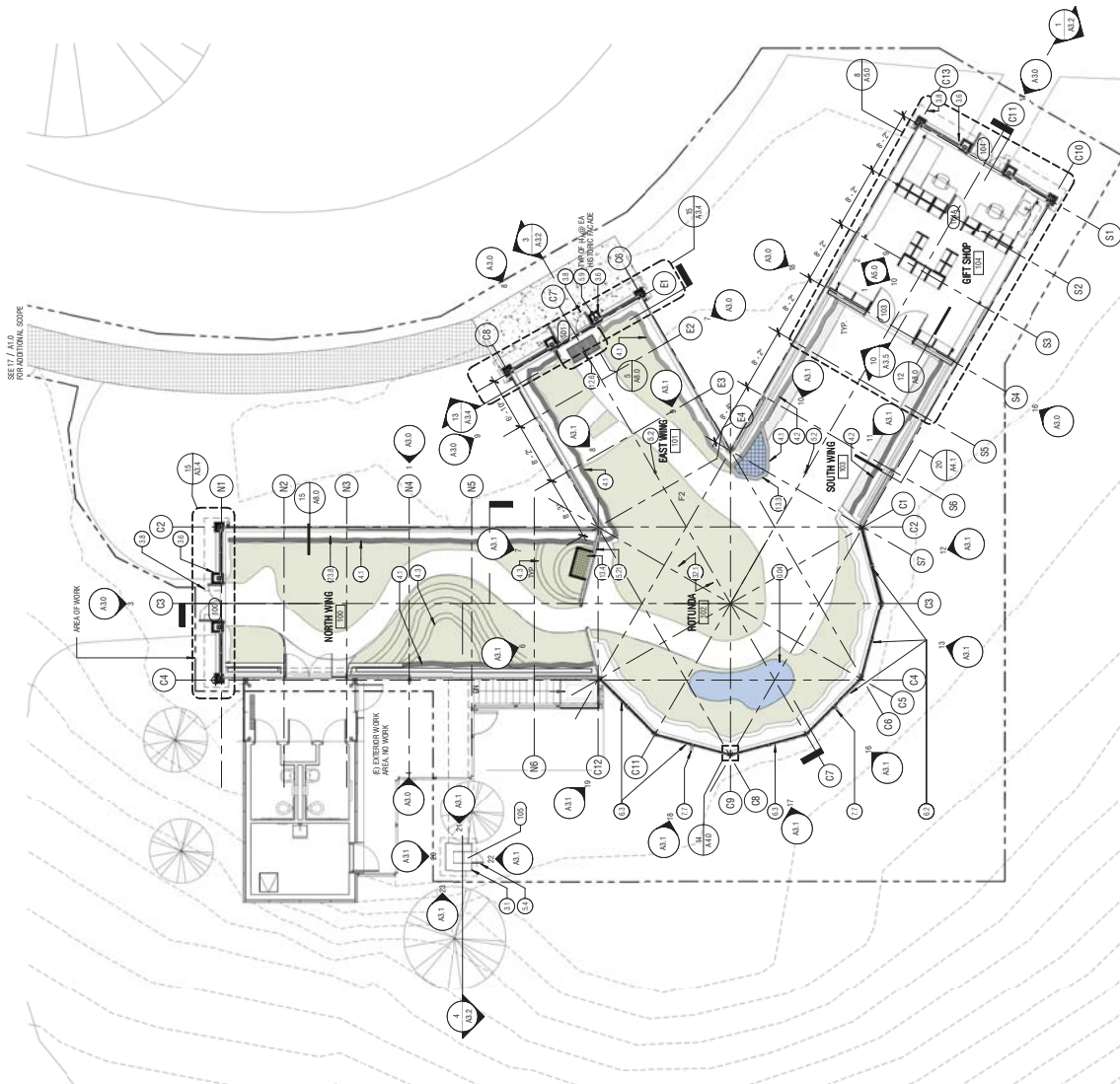
- (E) WALL
- (W) WALL

**KEYNOTE LEGEND**

MARK	DESCRIPTION
00.1	EXISTING CONCRETE
01.1	EXISTING CONCRETE
02.1	EXISTING CONCRETE
03.1	EXISTING CONCRETE
04.1	EXISTING CONCRETE
05.1	EXISTING CONCRETE
06.1	EXISTING CONCRETE
07.1	EXISTING CONCRETE
08.1	EXISTING CONCRETE
09.1	EXISTING CONCRETE
10.1	EXISTING CONCRETE
11.1	EXISTING CONCRETE
12.1	EXISTING CONCRETE
13.1	EXISTING CONCRETE
14.1	EXISTING CONCRETE
15.1	EXISTING CONCRETE
16.1	EXISTING CONCRETE
17.1	EXISTING CONCRETE
18.1	EXISTING CONCRETE
19.1	EXISTING CONCRETE
20.1	EXISTING CONCRETE
21.1	EXISTING CONCRETE
22.1	EXISTING CONCRETE
23.1	EXISTING CONCRETE
24.1	EXISTING CONCRETE
25.1	EXISTING CONCRETE
26.1	EXISTING CONCRETE
27.1	EXISTING CONCRETE
28.1	EXISTING CONCRETE
29.1	EXISTING CONCRETE
30.1	EXISTING CONCRETE
31.1	EXISTING CONCRETE



2 BASEMENT PLAN  
 1/8" = 1'-0"



1 FLOOR PLAN  
 1/8" = 1'-0"

NOT FOR CONSTRUCTION

**KEYNOTE LEGEND**

MARK	KEYNOTE TEXT
A-3	STONE WALL TOPS
B-1.7	MOVABLE TABLE FOOT
C-1.8	CHAIR FOOT
D-1.9	PARKING REF LANDSCAPE

FINISH MARKERS SURFACES TO RECEIVE  
HPO-FINISH LINO

**LAMINATE LEGEND**

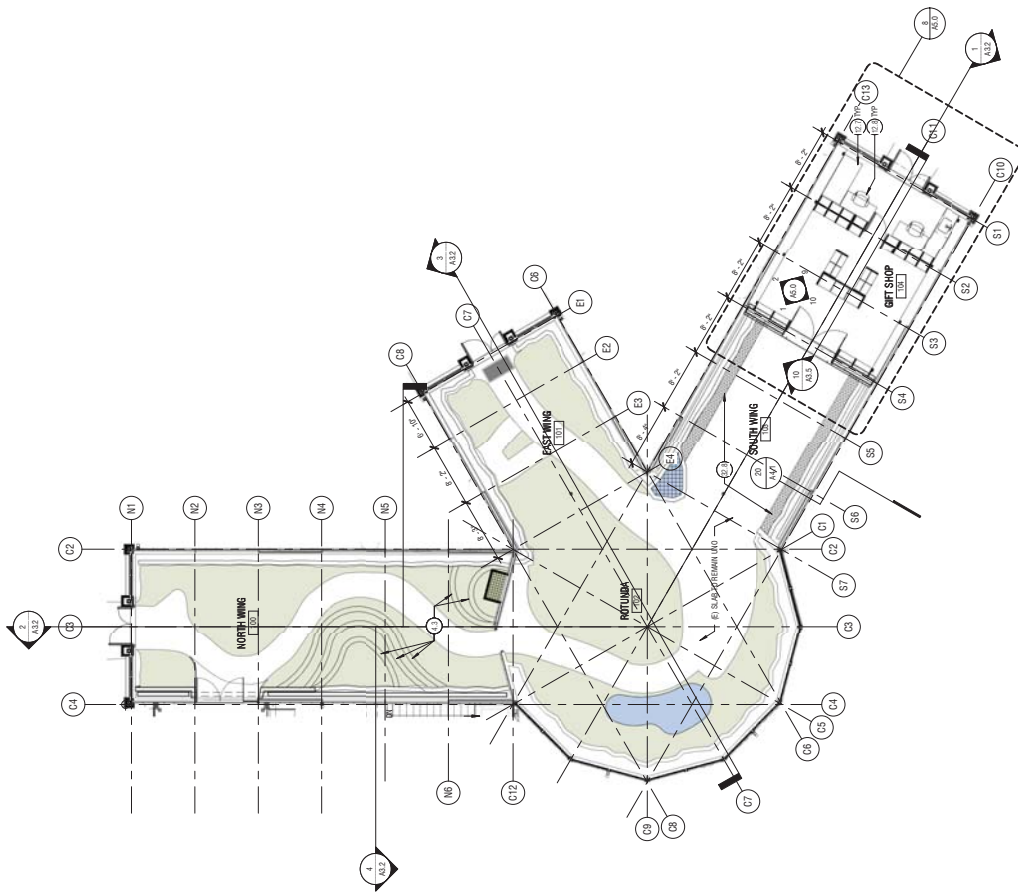
- E PAINTED
- F WOOD FINISH
- G WOOD FINISH
- H ALU #2: VARNISH

**FLOOR FINISH LEGEND**

- I SAND/LETTNER
- J STAMPED CONCRETE TO MATCH (E)

**WALL LEGEND**

- K WALL
- L WALL



W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
318 S ST. TACOMA, WA 98402

Drawn by: SK  
Checked: TL 10.19  
Date: 11.10.19  
Scale: As Indicated  
Reference:  
No. Date Remarks

**KEYNOTE LEGEND**

MARK	KEYNOTE TEXT
1.2	STEEL PLATE REINFORCEMENT @ (C) METAL PLATE COLUMN REF STRUCT
1.3	WELDED CONNECTIONS AT (E) METAL PLATE CROSS BRACES, TOP OF
1.9	STEEL CROSS BRACING AT ROOF PLANE OF ANNEXES, TOP REF STRUCT

**GENERAL NOTES**  
 1. REFER TO ELECTRICAL FOR LIGHTING SCOPE

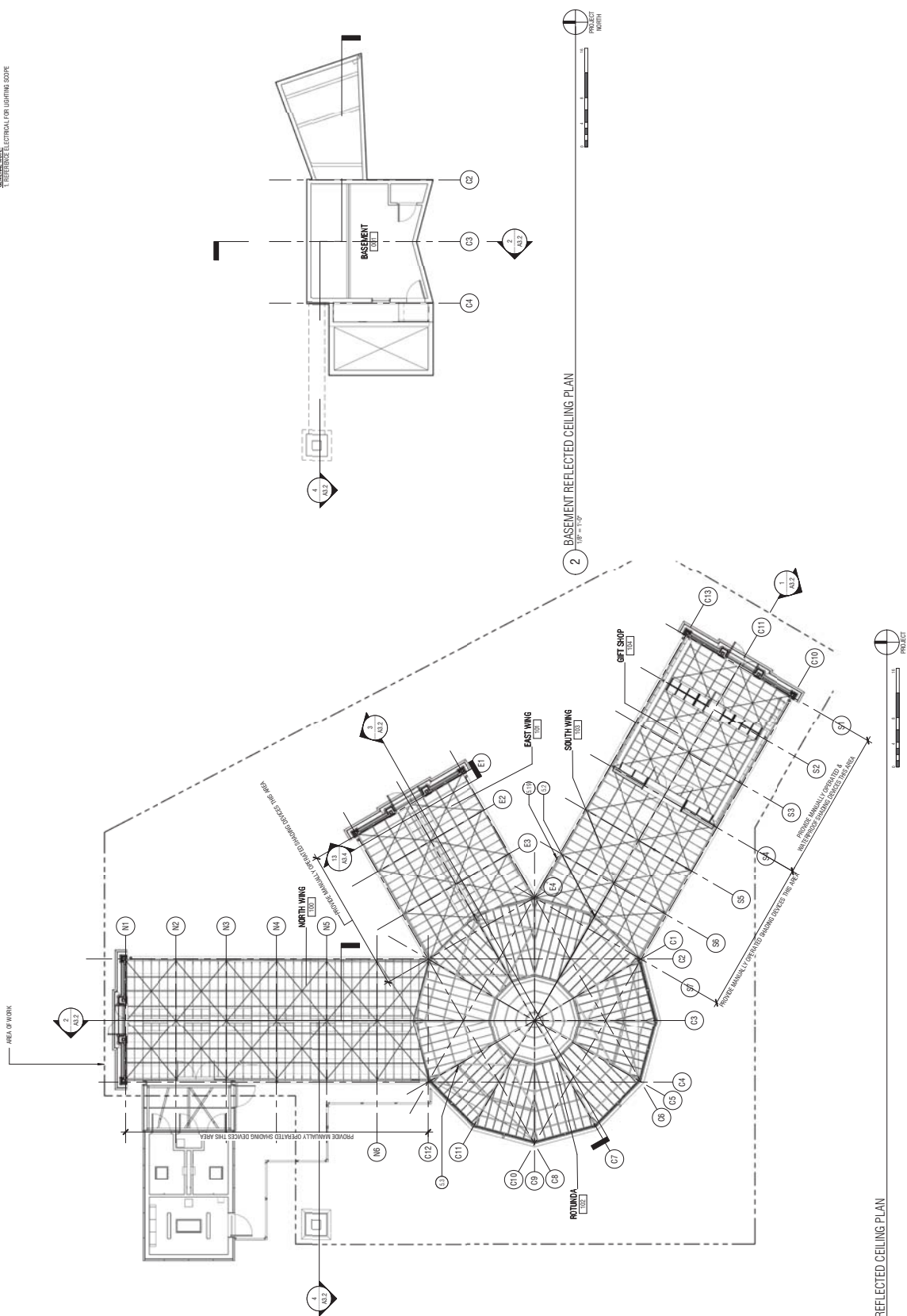
1000 N. MAIN ST.  
 SUITE 100  
 MADISON, WI 53703  
 WWW.SHKSARCHITECTS.COM

W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

60% CD  
 316 S. ST. MADISON, WI 53703

Drawn by:	Author:	Checked:	Date:	Scale:	Reference:	No.:	Date:	Remarks:
			11.10.19	1/8" = 1'-0"				

REFLECTED  
 CEILING PLANS  
**A2.1.3**



**1** UPPER FLOOR REFLECTED CEILING PLAN  
 1/8" = 1'-0"

**2** BASEMENT REFLECTED CEILING PLAN  
 1/8" = 1'-0"





KEYNOTE LEGEND

MARK	KEYNOTE TEXT
0.10	5.1 BRASS COMPONENT
0.15	6.1 COPPER GLASS CURT
2.20	DEMO (E) INTERIOR AT GLASS DRILL
2.25	6.1 COPPER GLASS CURT
3.10	INSTALL 1/4" BRASS STAINLESS STEEL RIGID FRAME GLASS TO MATCH (E)
3.15	ALL (E) GLASS IN FRAME WITH CONCRETE SPACK
3.20	HISTORIC FACADE (SPAC OVER OVER STRUCTURAL STEEL FRAME)
3.25	INSTALL 1/4" BRASS STAINLESS STEEL RIGID FRAME GLASS TO MATCH (E)
3.30	INSTALL 1/4" BRASS STAINLESS STEEL RIGID FRAME GLASS TO MATCH (E)
3.35	WITH WOOD FRAME, MATCH (E) COORDINATION AND FINISHES
6.1	COPPER GUTTER AND DOWNSPUT, PROFILE TO MATCH (E) CONNECT TO (E) DOWNSPUT
7.3	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.4	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.5	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.6	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION
7.7	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.8	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.9	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.10	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION
7.11	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.12	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.13	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.14	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION
7.15	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.16	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.17	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.18	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION
7.19	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.20	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.21	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.22	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION
7.23	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.24	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.25	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.26	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION
7.27	REMOVE GLASS AND FRAME FROM WEST WING AND REINSTALLATION
7.28	REMOVE GLASS AND FRAME FROM EAST WING AND REINSTALLATION
7.29	REMOVE GLASS AND FRAME FROM SOUTH WING AND REINSTALLATION
7.30	REMOVE GLASS AND FRAME FROM NORTH WING AND REINSTALLATION

RECONSTRUCTION GENERAL NOTES

- 1. DEMO EXISTING CONCRETE CURTAIN WALL AND GLASS CURTAIN WALL.
- 2. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 3. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 4. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 5. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 6. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 7. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 8. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 9. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 10. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 11. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 12. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 13. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 14. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 15. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 16. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 17. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.
- 18. CONCRETE CURTAIN WALL TO BE RECONSTRUCTED WITH 18" THICK CONCRETE AND 6" REINFORCING BARS.

1 (E) NORTH WING, EAST ELEV 1/8" = 1'-0"

2 (E) NORTH WING, WEST ELEV 1/8" = 1'-0"

3 (E) NORTH WING, NORTH ELEV 1/8" = 1'-0"

4 (E) NORTH WING, SOUTH ELEV 1/8" = 1'-0"

5 (E) EAST WING, EAST ELEV 1/8" = 1'-0"

6 (E) EAST WING, SOUTH ELEV 1/8" = 1'-0"

7 (E) EAST WING, NORTH ELEV 1/8" = 1'-0"

8 (E) EAST WING, WEST ELEV 1/8" = 1'-0"

9 (E) SOUTH WING, WEST ELEV 1/8" = 1'-0"

10 (E) SOUTH WING, SOUTH ELEV 1/8" = 1'-0"

11 (E) SOUTH WING, NORTH ELEV 1/8" = 1'-0"

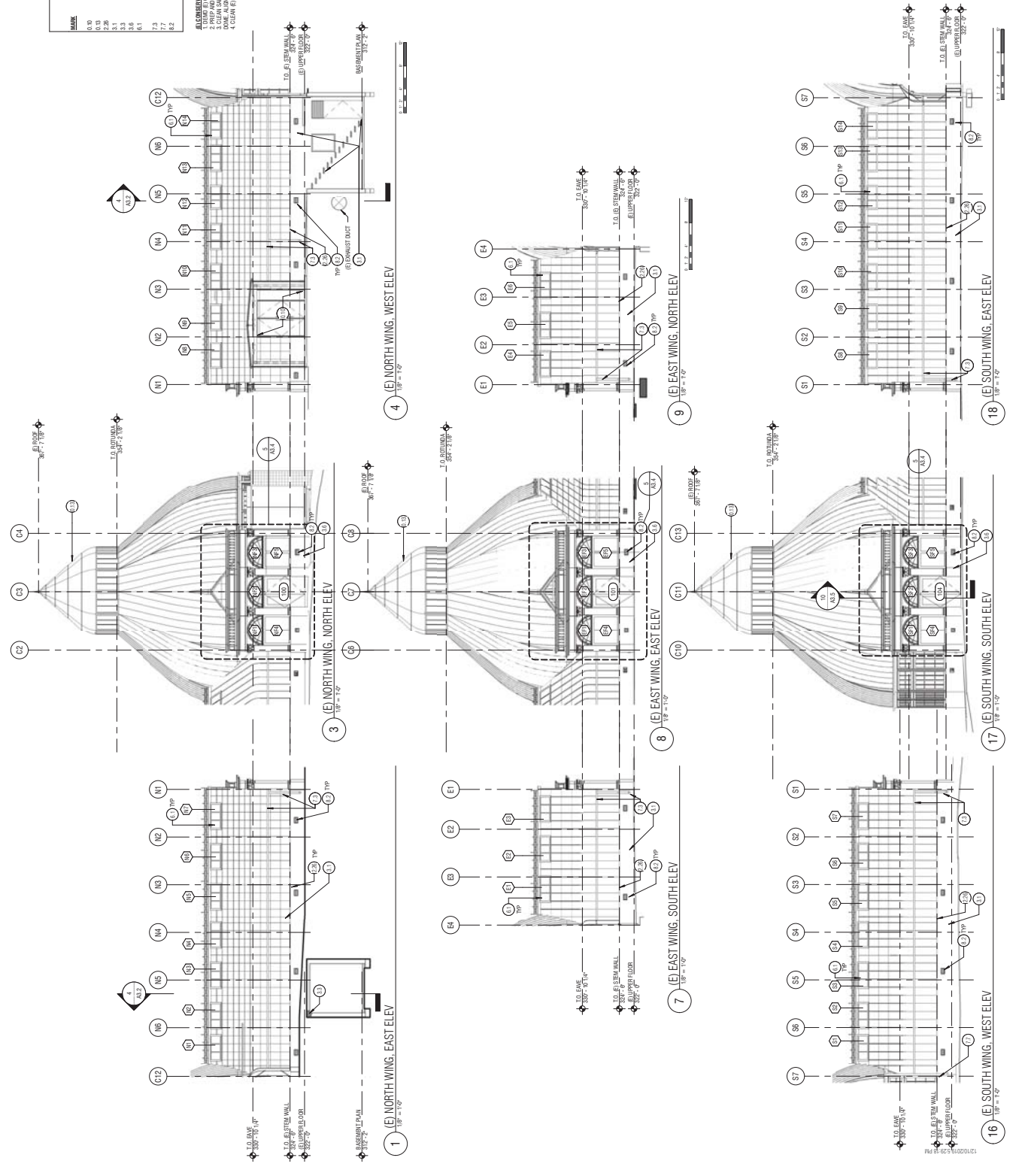
12 (E) SOUTH WING, EAST ELEV 1/8" = 1'-0"

13 (E) SOUTH WING, WEST ELEV 1/8" = 1'-0"

14 (E) SOUTH WING, SOUTH ELEV 1/8" = 1'-0"

15 (E) SOUTH WING, NORTH ELEV 1/8" = 1'-0"

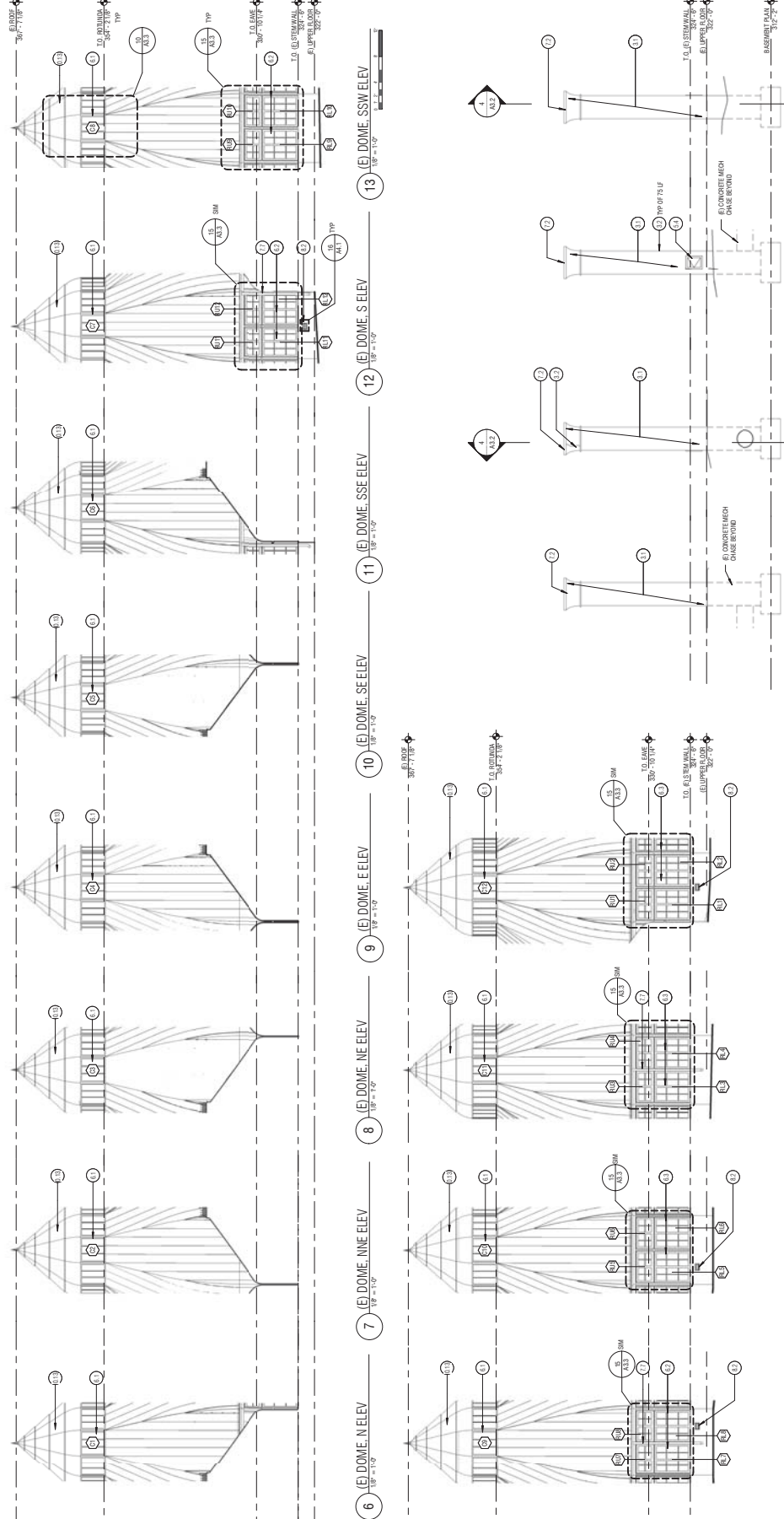
16 (E) SOUTH WING, WEST ELEV 1/8" = 1'-0"



1. CONSERVATION MATERIALS: USE GLASS SHINGLES.
2. PREP AND PAINT: STEEL FRAMING ALLOWS.
3. PAINT: CONCRETE SURFACES TO BE REPAIRED.
4. CLEAN: CONCRETE STEINWALL.

MARK	KEYNOTE LEGEND
0.9	(E) CONCRETE CURB CAP
3.1	(E) PARACURT DOWN TO SOUND SUBSTRATE. INSTALL PARACURT
3.2	(E) CHIMNEY
3.3	(E) CHIMNEY
3.4	(E) CHIMNEY
6.1	(E) CONCRETE STEINWALL WITH SASH WINDOW. INSTALL OPERABLE WINDOW WITH PARACURT AND FLASHING. REPAIR AND REPAINT.
6.2	(E) CONCRETE STEINWALL WITH SASH WINDOW. INSTALL OPERABLE WINDOW WITH PARACURT AND FLASHING. REPAIR AND REPAINT. SILL AND LOWER SECTION OF STEEL AND CASING WITH MATERIAL TO MATCH EXISTING. INSTALL THROUGH-WALL FLASHING AT TOP OF STEINWALL.

MARK	KEYNOTE LEGEND
6.3	(E) CONCRETE STEINWALL AND LOWER SECTION OF STEEL CASING AND RAIL. SALVAGE AND REINSTALL EXISTING SILL AS REQUIRE TO INSTALL OPERABLE WINDOW AT TOP OF STEINWALL.
7.2	(E) CONCRETE STEINWALL WITH SASH WINDOW. INSTALL OPERABLE WINDOW WITH PARACURT AND FLASHING.
7.7	(E) CONCRETE STEINWALL WITH SASH WINDOW. INSTALL OPERABLE WINDOW WITH PARACURT AND FLASHING.
8.2	(E) CONCRETE STEINWALL WITH SASH WINDOW. INSTALL OPERABLE WINDOW WITH PARACURT AND FLASHING. REPAIR AND REPAINT. SILL AND LOWER SECTION OF STEEL AND CASING WITH MATERIAL TO MATCH EXISTING. INSTALL THROUGH-WALL FLASHING AT TOP OF STEINWALL.



W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
318 S 5 ST TACOMA, WA 98402

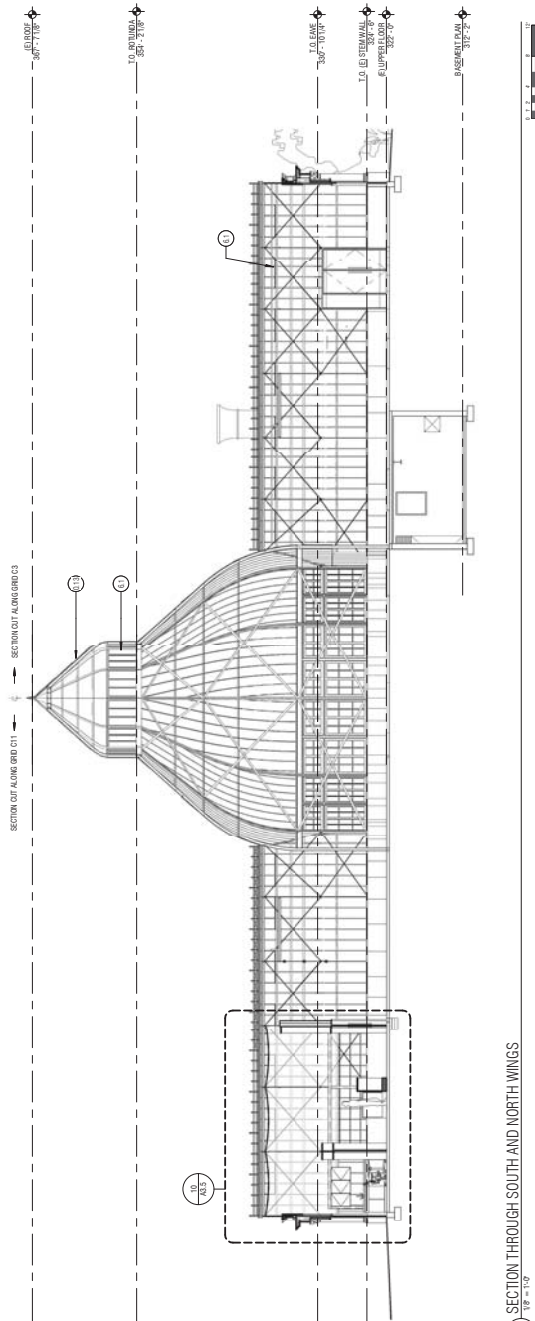
Drawn by: SK  
Checked: SK  
Date: 11.10.18  
Scale: AS SHOWN  
Reference: Remarks

EXTERIOR  
ELEVATIONS  
**A3.1**

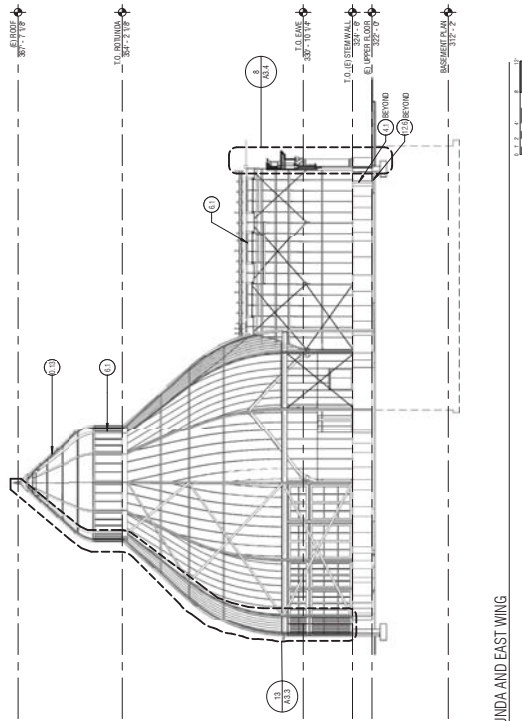
NOT FOR CONSTRUCTION



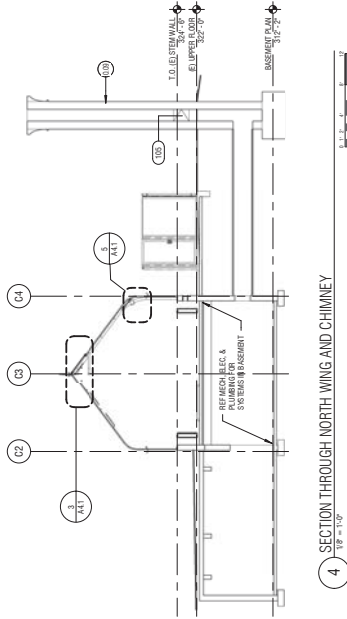
KEYNOTE LEGEND	
MARK	KEYNOTE TEXT
00	6" CONCRETE
03	6" CONCRETE
A1	STONE WALL TYPE 1
B1	1" POLYSTYRENE INSULATION WITH 1/2" STAINLESS STEEL STRIKE VENTILATOR SASH WINDOW WALL-CFT DRAPE
B2	1" POLYSTYRENE INSULATION WITH 1/2" STAINLESS STEEL STRIKE VENTILATOR SASH WINDOW WALL-CFT DRAPE



1 SECTION THROUGH SOUTH AND NORTH WINGS  
1/8" = 1/8"



3 SECTION THROUGH ROTUNDA AND EAST WING  
1/8" = 1/8"



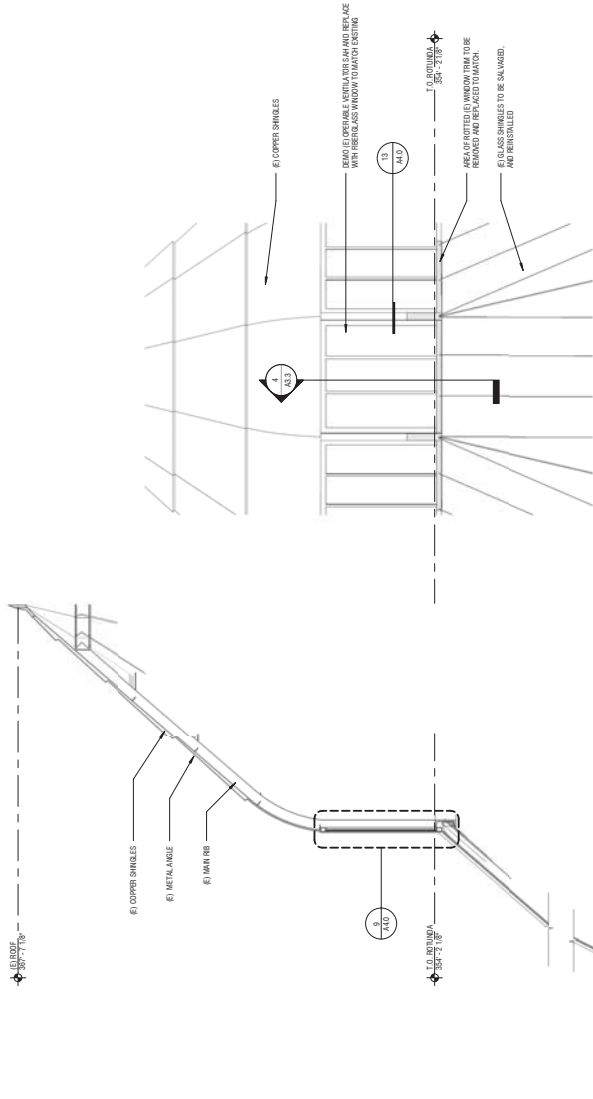
4 SECTION THROUGH NORTH WING AND CHIMNEY  
1/8" = 1/8"

W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

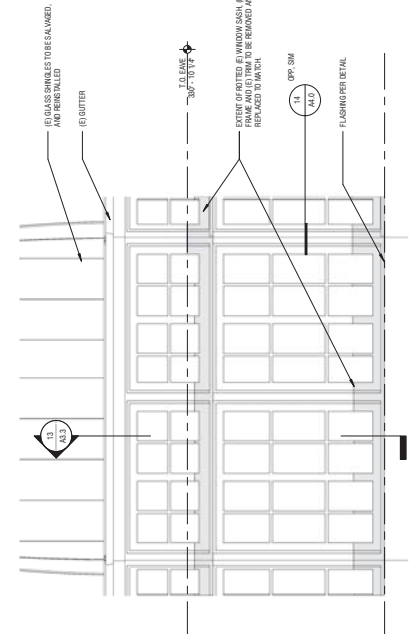
60% CD  
718 S.E. 1ST TACOMA, WA 98402

Drawn by: SK  
Checked: SK  
Date: 11.10.18  
Scale: 1/8" = 1/8"  
Reference: 18-001  
No. Date Remarks

BUILDING  
SECTIONS  
A3.2



10 (E) DOME, SSW ELEV. - ENLARGED CUPOLA 2  
(1/2" = 1'-0")



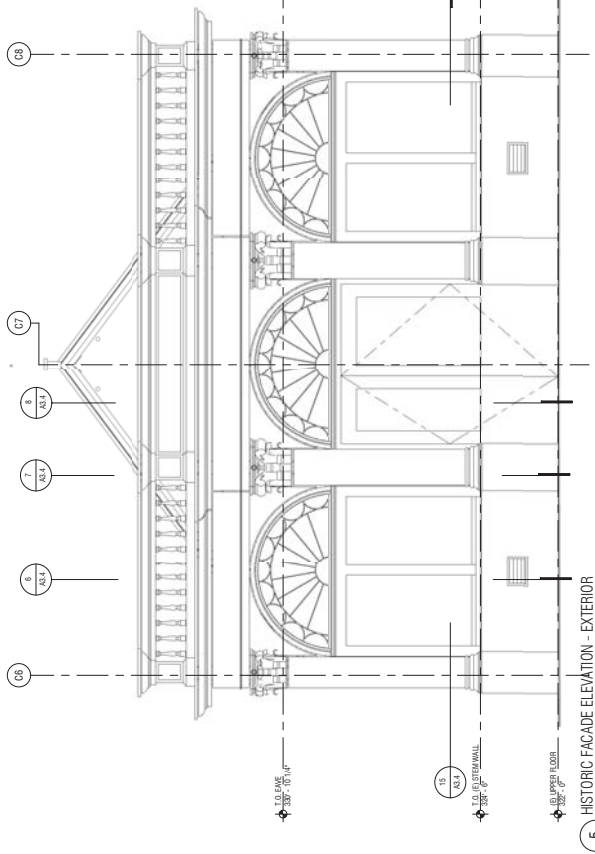
15 (E) DOME, SSW ELEV. - ENLARGED  
(1/2" = 1'-0")

W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

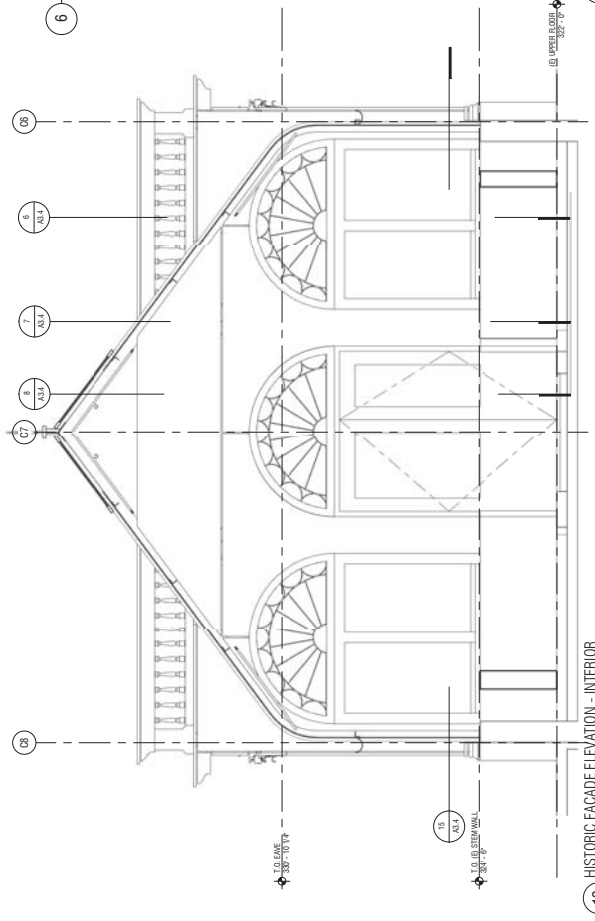
60% CD  
318 S 31ST TACOMA, WA 98402

Drawn by:	ADW
Checked:	ADW
Date:	11.10.19
Scale:	1/2" = 1'-0"
Revised:	
No.:	001
Date:	
Revised:	

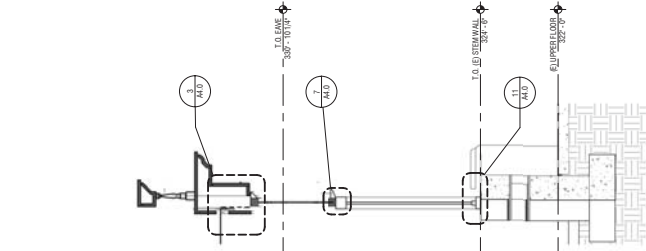
WALL SECTIONS  
& ENLARGED  
ELEVATIONS  
**A3.3**



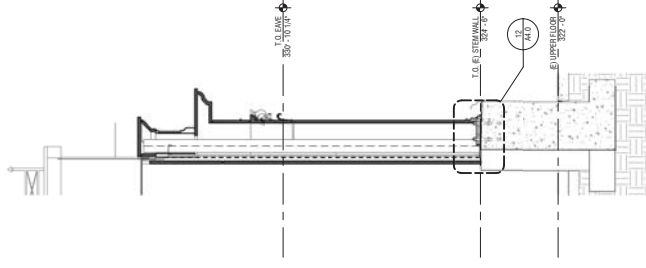
5 HISTORIC FACADE ELEVATION - EXTERIOR  
 1/2" = 1/2"



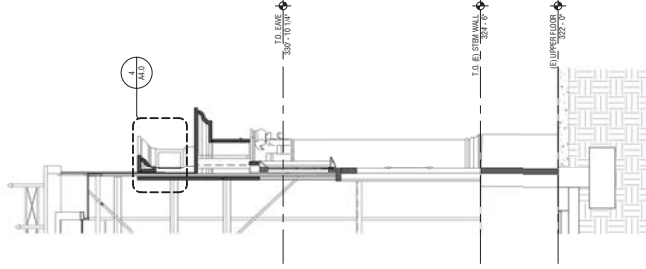
13 HISTORIC FACADE ELEVATION - INTERIOR  
 1/2" = 1/2"



6 HISTORIC FACADE SECTION @ WINDOW  
 1/2" = 1/2"



7 HISTORIC FACADE SECTION @ PILASTER  
 1/2" = 1/2"



8 HISTORIC FACADE SECTION @ DOOR  
 1/2" = 1/2"

60% CD

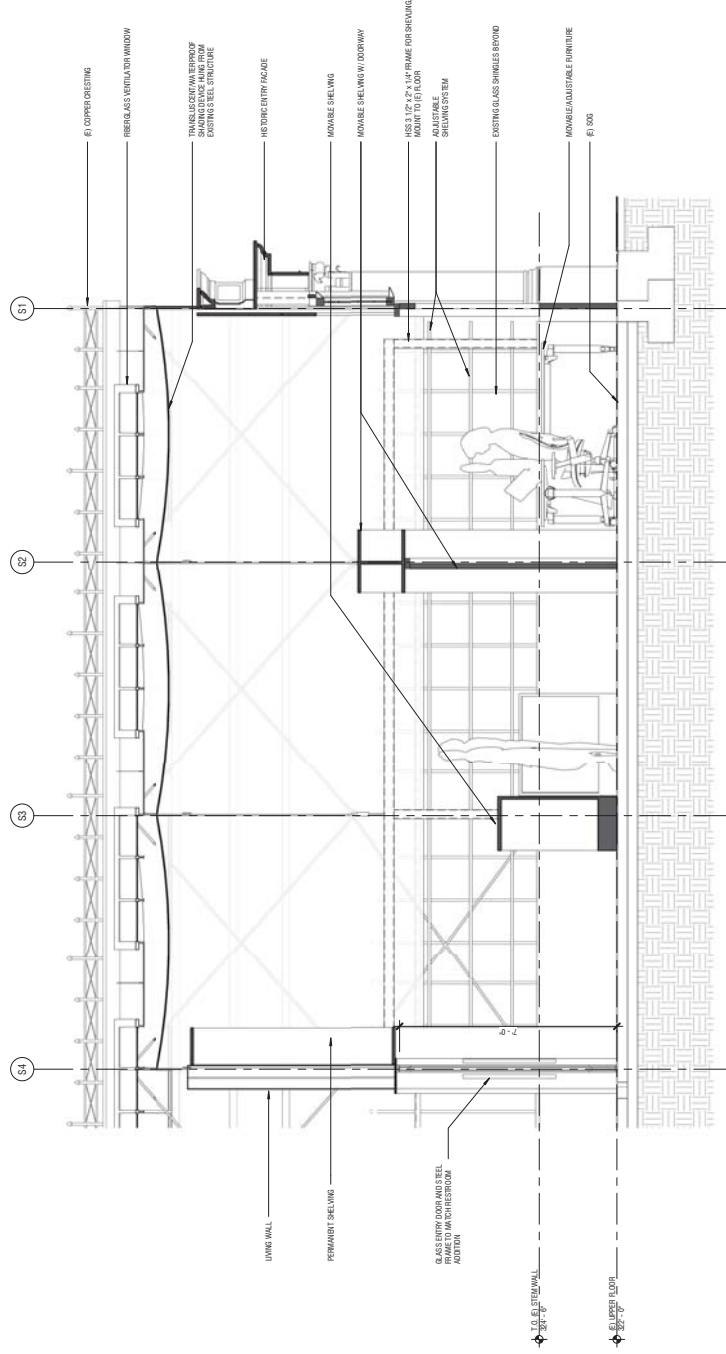
718 S. ST. TAMARA, WA 98107

Drawn by: SK  
 Checked: SK  
 Date: 11.10.18  
 Scale: 1/2" = 1/2"  
 Reference:  
 No. Date Remarks

W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

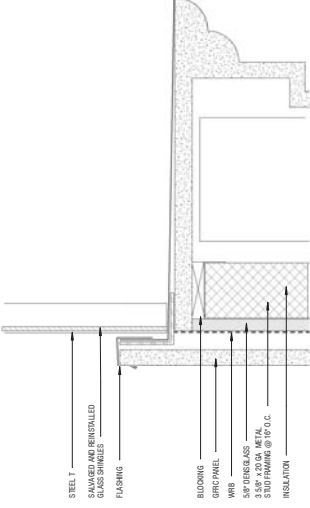
15 HISTORIC FACADE - PLAN SECTION  
 1/2" = 1/2"

WALL SECTIONS  
 & ENLARGED  
 ELEVATIONS  
**A3.4**

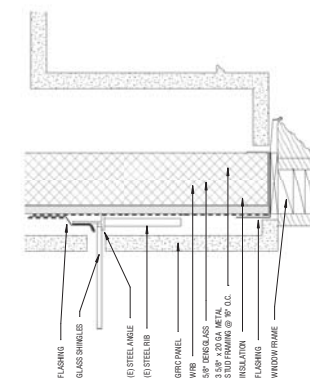


10 SECTION THROUGH GIFT SHOP & OFFICE

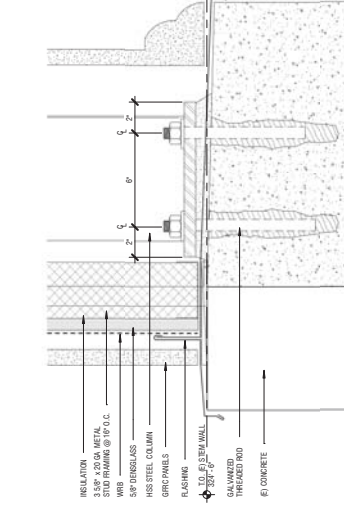
1/2" = 1'-0"



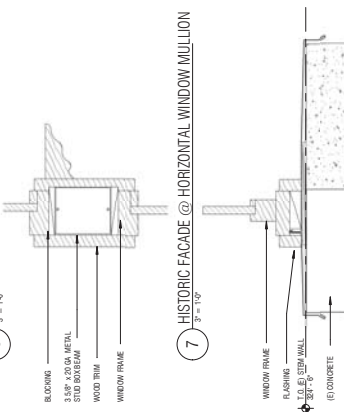
4 HISTORIC FACADE DETAIL @ ENTRY VERTICAL GLAZING  
3" = 1'-0"



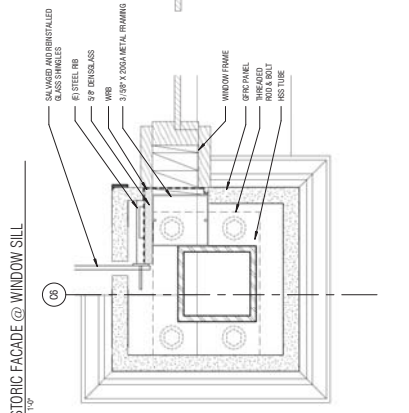
3 HISTORIC FACADE @ (E) ROOF GLAZING  
3" = 1'-0"



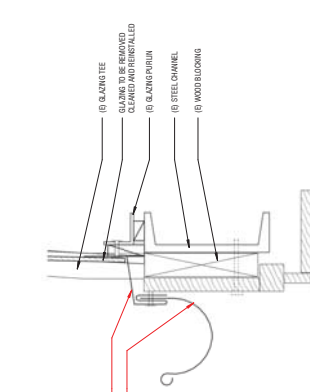
12 HISTORIC FACADE DETAIL @ STEM WALL / GFRc  
3" = 1'-0"



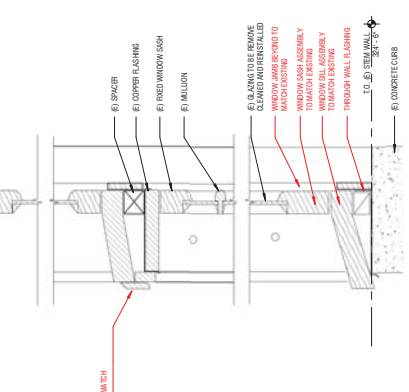
7 HISTORIC FACADE @ HORIZONTAL WINDOW MULLION  
3" = 1'-0"



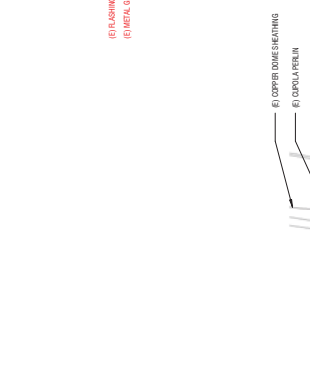
11 HISTORIC FACADE @ WINDOW SILL  
3" = 1'-0"



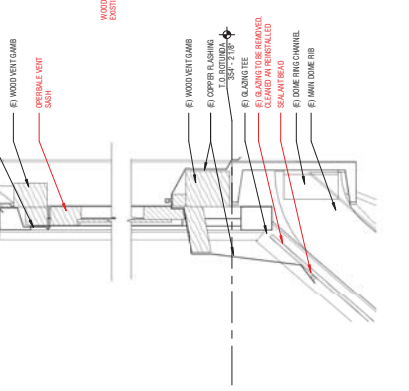
10 TYPICAL WINDOW SASH HEAD & GUTTER  
3" = 1'-0"



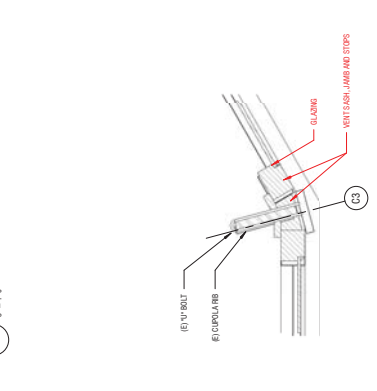
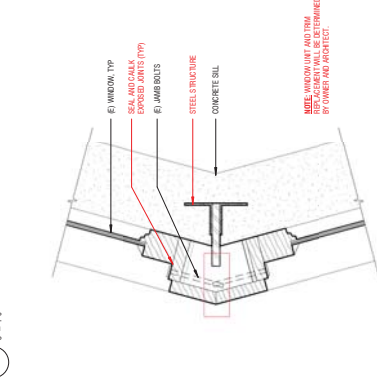
14 TYPICAL MULLION @ WEST WALL  
3" = 1'-0"



9 TYPICAL SASH / FLASHING @ CUPOLA  
3" = 1'-0"



13 TYPICAL MULLION @ CUPOLA  
3" = 1'-0"



15 TYP OUTSIDE GFRc PIER  
3" = 1'-0"

16 TYP MIDDLE GFRc PIER  
3" = 1'-0"

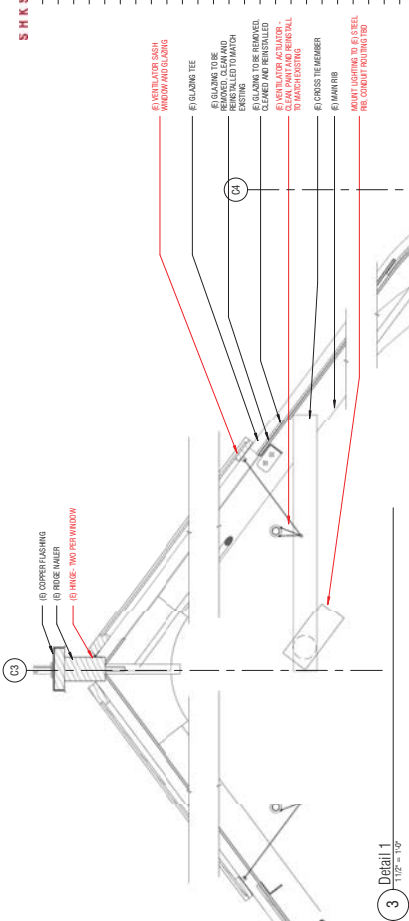
W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
318 S ST. MADISON, WI 53706

Drawn by:	AJZ	Checked:	DL
Date:	11.10.18	Scale:	3" = 1'-0"
Reference:		No.:	DL
		Revised:	

EXTERIOR  
DETAILS

A4.0



1050 S. 34th St.  
Seattle, WA 98148  
Ph: 206.876.6787  
www.shksarchitects.com

W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

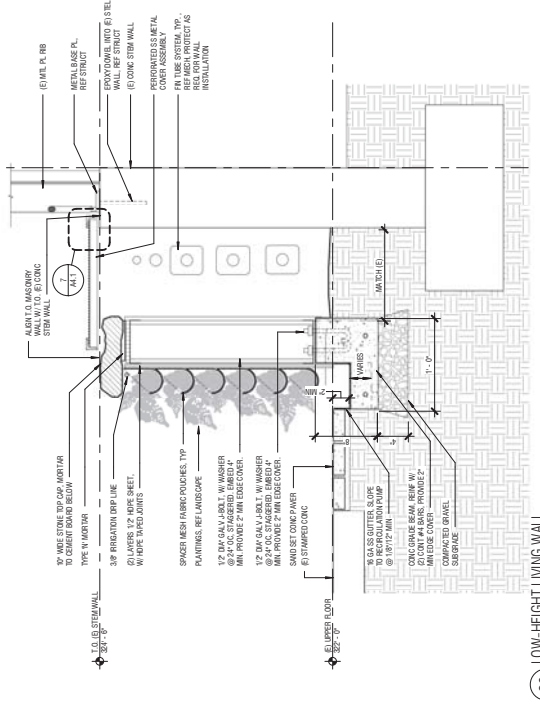
60% CD  
316 S. 85th TACOMA, WA 98402

Drawn by:	ABZOT	Revised:	
Checked:	CHOW	No.	DATE
Date:	12.10.18	Remarks:	
Scale:	AS SHOWN		

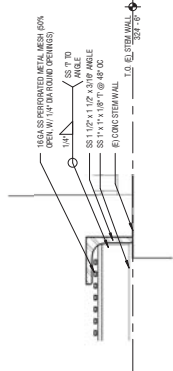
EXTERIOR  
DETAILS  
**A4.1**

3 Detail 1  
1/2" = 1'-0"

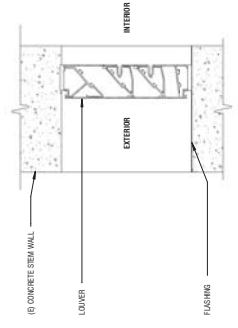
5 TYPICAL GUTTER AND CROSS BRACE CONNECTION AT WINGS  
1/2" = 1'-0"



20 LOW-HEIGHT LIVING WALL  
1/2" = 1'-0"



7 TYP METAL-FIN TUBE COVER  
9\" = 1'-0"

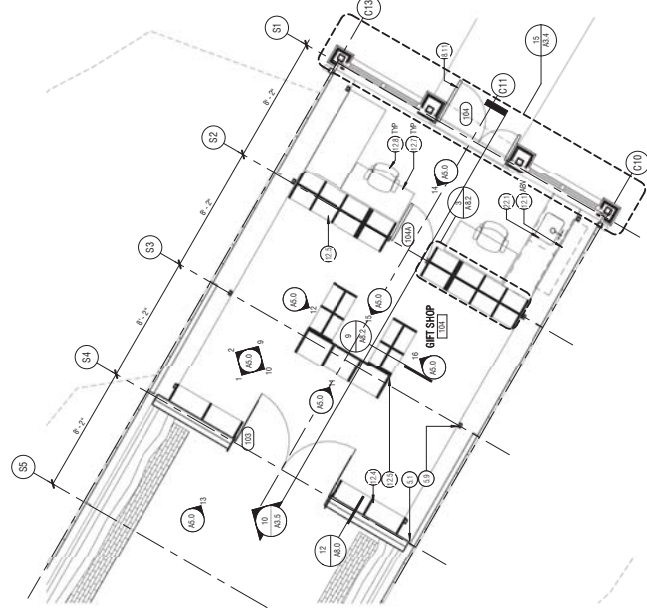


15 TYP LOUVER @ STEM WALL  
3\" = 1'-0"

16 TYP LOUVER ELEVATION  
3\" = 1'-0"

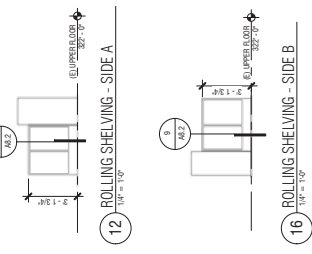
**KEYNOTE LEGEND**

MARK	DESCRIPTION
S1	CROSS BRACING AT WALL AND ROOF OF (B) CONSERVATORY BAY, REF STRUCT
S2	STEEL COLUMNS, REF STRUCT
S3	STEEL BEAMS, REF STRUCT
S4	CASWORK
S5	SHELVING
S6	ROLLING SHELVING CABINETS
S7	MONOWHEEL TABLE POD
S8	CHAIR POD
S9	SHK, TUBING, POSTURE, AND DRIVING REST FLAMPS

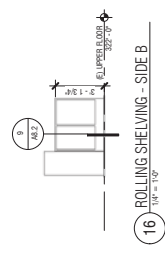


8 ENLARGED FLOOR PLAN - GIFT SHOP & OFFICE  
1/4" = 1'-0"

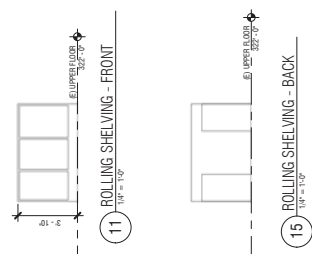
60% CD  
THIS IS ST. TACOMA, WA MARK



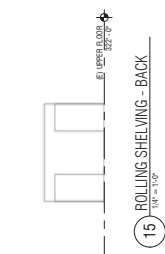
12 ROLLING SHELVING - SIDE A  
1/4" = 1'-0"



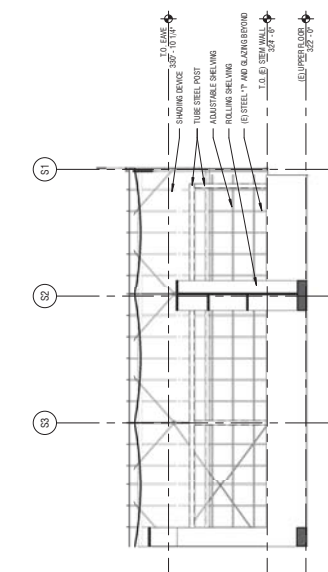
16 ROLLING SHELVING - SIDE B  
1/4" = 1'-0"



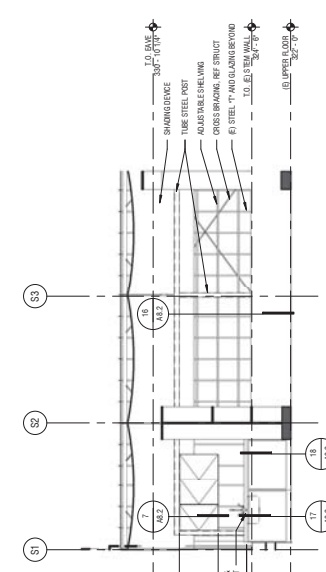
11 ROLLING SHELVING - FRONT  
1/4" = 1'-0"



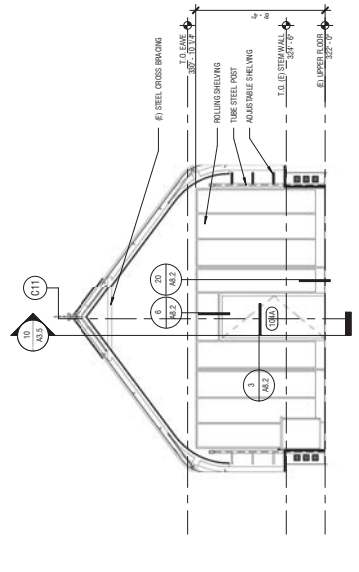
15 ROLLING SHELVING - BACK  
1/4" = 1'-0"



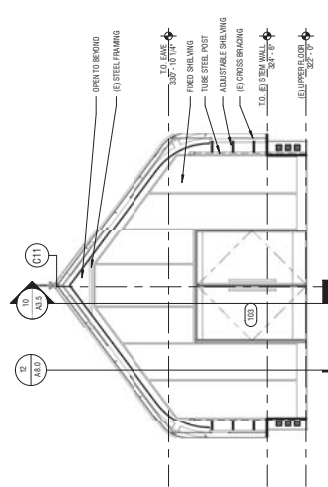
2 INTERIOR ELEVATION - NORTH WALL  
1/4" = 1'-0"



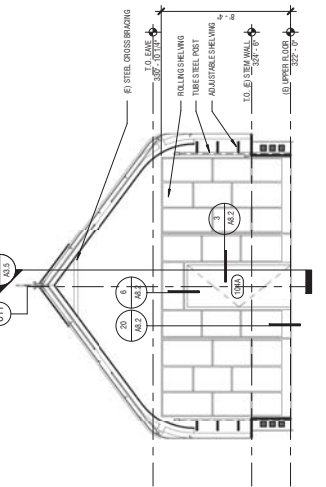
10 INTERIOR ELEVATION - SOUTH WALL  
1/4" = 1'-0"



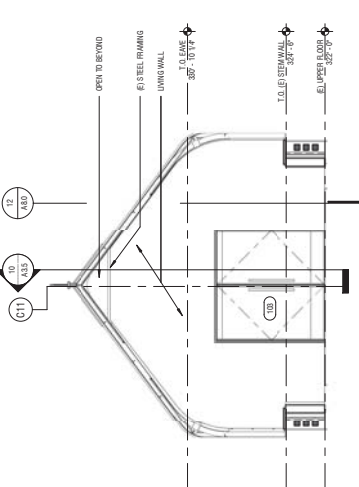
14 INTERIOR ELEVATION - SHELVING BACK  
1/4" = 1'-0"



1 INTERIOR ELEVATION - ORCHID WALL BACK  
1/4" = 1'-0"



9 INTERIOR ELEVATION - SHELVING FRONT  
1/4" = 1'-0"

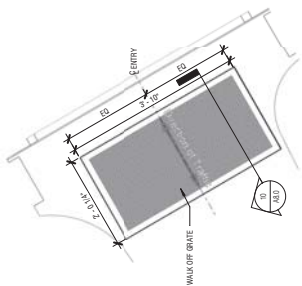


13 INTERIOR ELEVATION - ORCHID WALL FRONT  
1/4" = 1'-0"

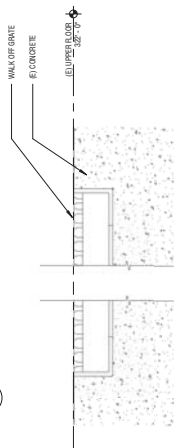
W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

ENLARGED PLAN  
& INTERIOR  
ELEVATIONS  
**A5.0**

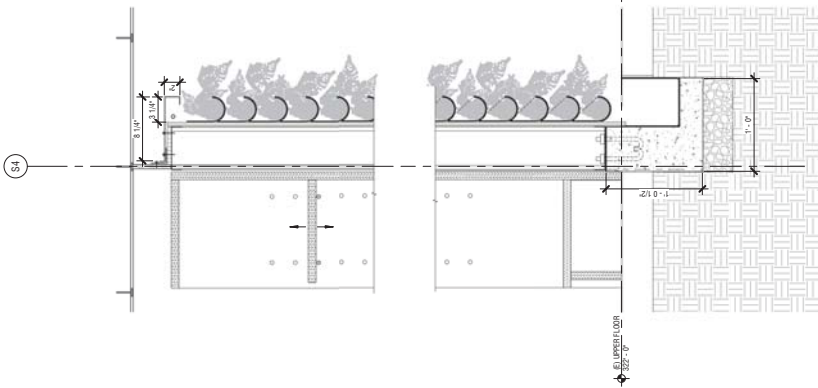
Drawn by:	SK
Checked: <td>SK</td>	SK
Date: <td>11.10.18</td>	11.10.18
Scale: <td>1/4" = 1'-0"</td>	1/4" = 1'-0"
Reference: <td></td>	
No.: <td>Date: </td>	Date:
Remarks:	



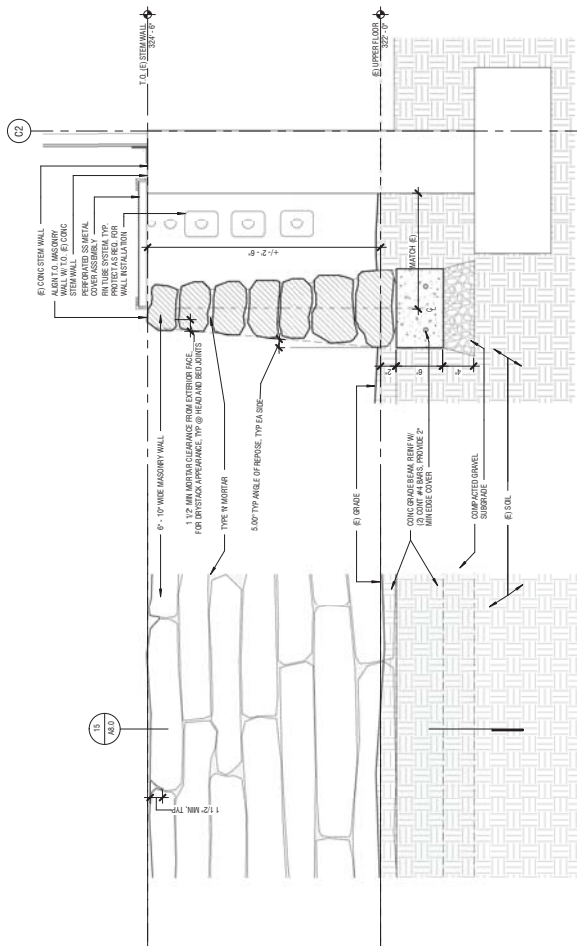
5 ENLARGED PLAN @ WALK OFF GRATE  
 1/8" = 1'-0"



10 SECTION DETAIL @ WALK OFF GRATE  
 1/8" = 1'-0"



13 TYP STONE WALL ELEVATION  
 1/16" = 1'-0"



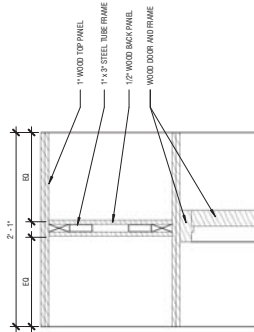
15 SECTION DETAIL @ STONE WALL  
 1/16" = 1'-0"

W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

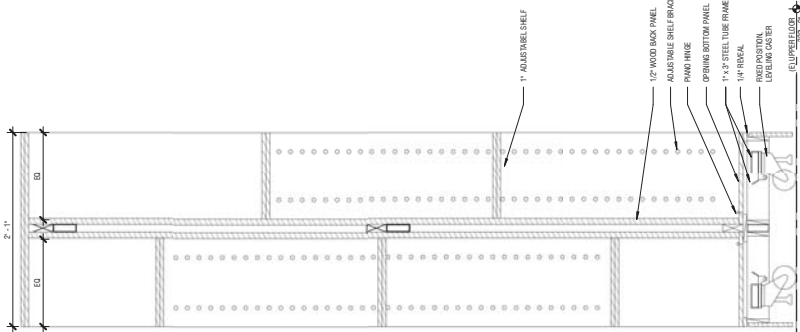
60% CD  
 318 S 5 ST TACOMA, WA 98402

Drawn by:	ADWZ	Revised:	
Checked:	CHSR	No.:	
Date:	11.10.19	Scale:	As Shown
Project:		Revise:	
No.:		Date:	
Remarks:			

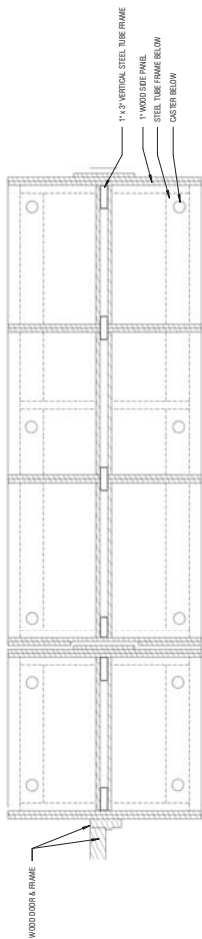




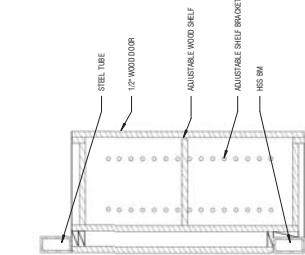
6 MILLWORK DETAIL - MOVEABLE SHELF DOOR HEAD  
 1/16" = 1'-0"



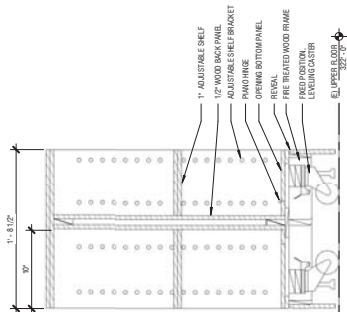
20 MILLWORK DETAIL - MOVEABLE SHELF  
 1/16" = 1'-0"



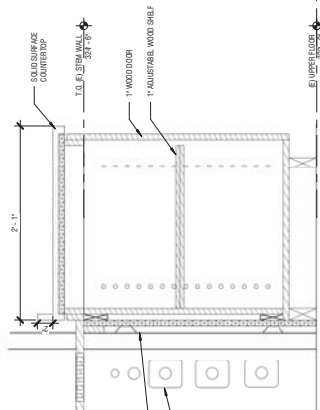
3 MILLWORK DETAIL @ MOVEABLE SHELF JAMB  
 1/16" = 1'-0"



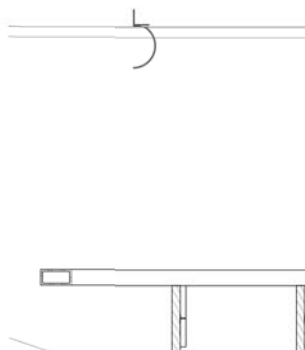
7 MILLWORK DETAIL - UPPER  
 1/16" = 1'-0"



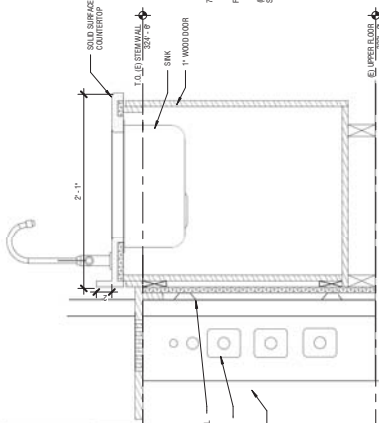
9 MILLWORK DETAIL @ CHECKOUT KIOSK  
 1/16" = 1'-0"



18 MILLWORK DETAIL - BASE  
 1/16" = 1'-0"



16 MILLWORK DETAIL - SHELF  
 1/16" = 1'-0"



17 MILLWORK DETAIL - SINK  
 1/16" = 1'-0"

W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

60% CD  
 318 S ST TACOMA, WA 98402

Drawn by:	AJZ	Revised:	
Checked:	CS	No.	
Date:	11.10.18	Date:	
Scale:	1/16" = 1'-0"	Date:	
Reference:		Date:	
No.		Date:	
Remarks:			

1000 N. 34th St.  
 Seattle, WA 98107  
 Tel: 206.478.8181  
 www.shksarchitects.com



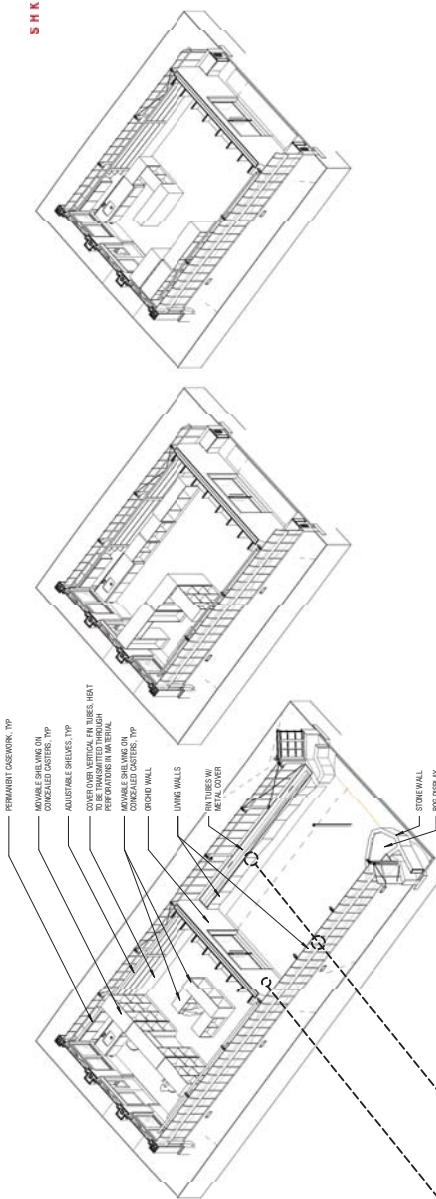
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 CONSERVATORY  
 REHABILITATION

60% CD  
 315 S. ST. TACOMA, WA 98402

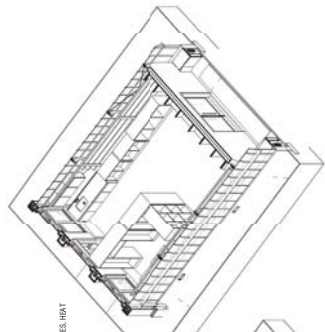
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LAYOUT  
 DIAGRAMS  
 DIA 1

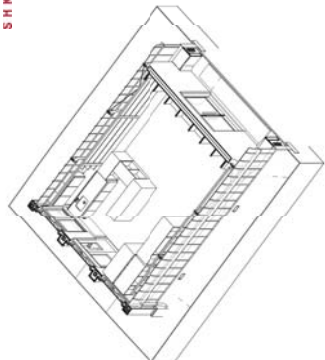
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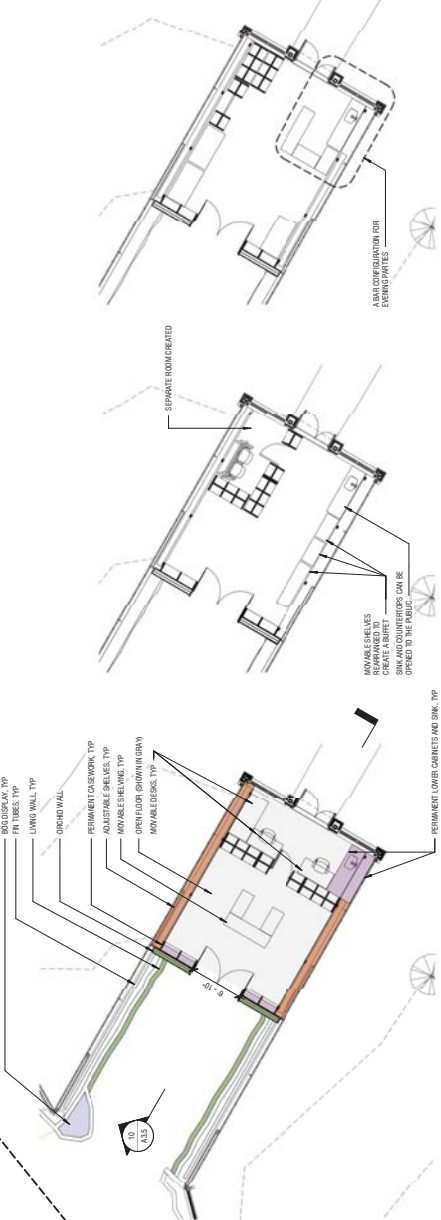
2 Gift Shop Configuration 1



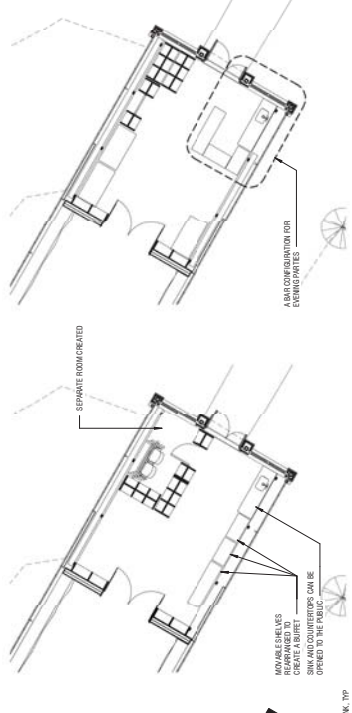
3 Gift Shop Configuration 2



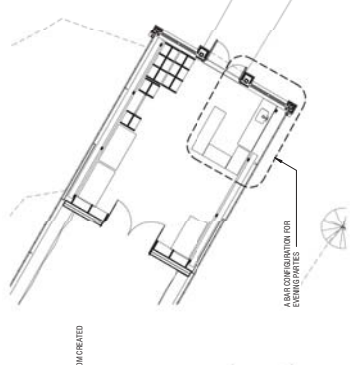
4 Gift Shop Configuration 3



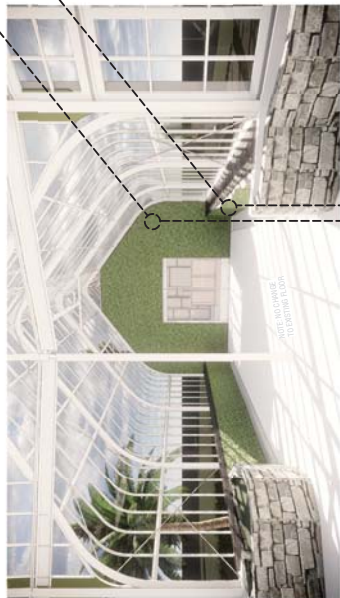
6 ENLARGED FLOOR PLAN - GIFT SHOP & OFFICE 1  
 1/8" = 1'-0"



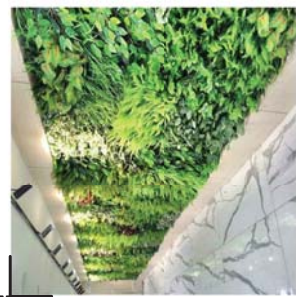
7 ENLARGED FLOOR PLAN - GIFT SHOP & OFFICE 2  
 1/8" = 1'-0"



8 ENLARGED FLOOR PLAN - GIFT SHOP & OFFICE 3  
 1/8" = 1'-0"  
 NOTE: THESE RECONFIGURATION DIAGRAMS ONLY SHOW A FEW POSSIBILITIES. THE FEASIBLE EXPENSE SHOULD ACCOMMODATE VARYING OPTIONS.



5 GIFT SHOP ENTRY / DISPLAY  
 1/8" = 1'-0"



1. STRUCTURAL NOTES

- 1.1. ANY DISCREPANCY FOUND AMONG THE DRAWINGS, SPECIFICATIONS, THESE COMMENTS AND THE CONSTRUCTION DOCUMENTS SHALL BE RECORDED BY THE CONTRACTOR AND THE STRUCTURAL ENGINEER WHO SHALL CORRECT SUCH DISCREPANCY IN WRITING. ANY WORK DONE BY THE CONTRACTOR AFTER DISCOVERY OF DISCREPANCY SHALL BE AT THE CONTRACTOR'S RISK AND SHALL BE APPROVED BY THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE DIMENSIONS AMONG ALL CONTRACTORS RESPONSIBLE FOR ALL ELECTION BEARING, FOOTING AND TEMPORARY CONSTRUCTION WORKING.

1.2. CODES

- 1.2.1. ALL METHODS, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED BY THE LOCAL BUILDING AUTHORITY.
- 1.2.2. ALL REFERENCES TO OTHER CODES, STANDARDS AND REGULATIONS SHALL BE TO THE MOST RECENT EDITIONS AND SHALL BE APPLIED AS AMENDED AND SUPPLEMENTED BY THE LOCAL BUILDING AUTHORITY.
- 1.2.3. ALTERNATIONS TO EXISTING BUILDINGS SHALL CONFORM TO THE 2015 INTERNATIONAL BUILDING CODES, UNLESS OTHERWISE INDICATED BY THE LOCAL BUILDING AUTHORITY.

1.5. DESIGN OTHERS

- 1.5.1. UNIFORM LOADS

LOCATION	LIVE LOAD	DEAD LOAD
ROOF	20 PSF (SNOW)	ACTUAL
FLOOR	100 PSF	ACTUAL
STAIRS AND EXITS	100 PSF	ACTUAL
STORAGE	120 PSF	ACTUAL
MECHANICAL ROOMS	100 PSF	ACTUAL
HANDRAILS AND GUARDS	50 PSF	ACTUAL
NON-RESIDENTIAL OCCUPANCIES	50 PSF	ACTUAL

\* THIS IS NOT A GROUND SHOCK LOAD.

1.7. MISCELLANEOUS

- 1.7.1. VERIFY SIZE AND LOCATION OF ALL OPENINGS IN THE FLOOR, ROOF AND WALLS WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- 1.7.2. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD.
- 1.7.3. PROTECT ALL EXISTING STRUCTURAL MEMBERS TO REMAIN FROM CONSTRUCTION DAMAGE BY THE CONTRACTOR.

1.8. WIND LOADS

- 1.8.1. WIND LOADS PER IRC SECTION 1609 AND ASCE 7 CHAPTERS 6 & 7 SHALL BE USED FOR ALL EXTERIOR COMPONENTS AND FINISHES.
- 1.8.2. WIND LOADS PER IRC SECTION 1609 AND ASCE 7 CHAPTERS 6 & 7 SHALL BE USED FOR ALL EXTERIOR COMPONENTS AND FINISHES.
- 1.8.3. WIND LOADS PER IRC SECTION 1609 AND ASCE 7 CHAPTERS 6 & 7 SHALL BE USED FOR ALL EXTERIOR COMPONENTS AND FINISHES.

1.9. SEISMIC DESIGN

- 1.9.1. ALL SEISMIC DESIGN SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 1.9.2. ALL SEISMIC DESIGN SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 1.9.3. ALL SEISMIC DESIGN SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

2. SOIL DATA

- 2.1. SOIL DATA SHALL BE PROVIDED BY THE GEOTECHNICAL ENGINEER. ALL SOIL TESTS SHALL BE PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER.

2.2. EXCAVATION

- 2.2.1. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.
- 2.2.2. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.

2.3. FOUNDATION

- 2.3.1. FOUNDATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.
- 2.3.2. FOUNDATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.

2.4. SEISMIC DESIGN

- 2.4.1. ALL SEISMIC DESIGN SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 2.4.2. ALL SEISMIC DESIGN SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

2.5. CONSTRUCTION

- 2.5.1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 2.5.2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.1. MATERIALS

- 3.1.1. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.1.2. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.2. REINFORCING STEEL

- 3.2.1. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.2.2. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.3. FORMWORK AND SHORING

- 3.3.1. FORMWORK AND SHORING SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.3.2. FORMWORK AND SHORING SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.4. ADHESIVE

- 3.4.1. ADHESIVE SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.4.2. ADHESIVE SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.5. CONCRETE

- 3.5.1. CONCRETE SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.5.2. CONCRETE SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.6. METALS

- 3.6.1. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.6.2. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.7. CONCRETE COVER

- 3.7.1. CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.7.2. CONCRETE COVER SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.8. ARCHITECTURAL PRECAST CONCRETE

- 3.8.1. ARCHITECTURAL PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.8.2. ARCHITECTURAL PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.9. GROUT FOR BEARING PLATES

- 3.9.1. GROUT FOR BEARING PLATES SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.9.2. GROUT FOR BEARING PLATES SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.10. NON-SHIM GROUT

- 3.10.1. NON-SHIM GROUT SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.10.2. NON-SHIM GROUT SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.11. HYDRAULIC CEMENT BASED MINERAL AGGREGATE GROUT

- 3.11.1. HYDRAULIC CEMENT BASED MINERAL AGGREGATE GROUT SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 3.11.2. HYDRAULIC CEMENT BASED MINERAL AGGREGATE GROUT SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.12. ADDITIONAL REINFORCING AND INSERTS REQUIRED FOR HANDLING, ERECTION AND TEMPORARY BRACING SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.13. CONSTRUCTION TOLERANCES, TRANSPORTATION, STORAGE AND ERECTION SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.14. ADDITIONAL REINFORCING AND INSERTS REQUIRED FOR HANDLING, ERECTION AND TEMPORARY BRACING SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

3.15. ANY PANELS THAT RECEIVE DAMAGE OR CRACKS DURING THE INSTALLATION PROCESS SHALL BE REPLACED OR REPAIRED.

3.16. PRECAST ELEMENTS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.1. STRUCTURAL STEEL GENERAL REQUIREMENTS

- 5.1.1. ALL STEEL SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 5.1.2. ALL STEEL SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.2. STEEL WELDS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.3. STEEL PIPE SECTIONS (SPED) SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.4. RECTANGULAR AND ROUND HOLLOW STEEL SECTIONS (HSS OR K) SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.5. STEEL WELDS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.6. STEEL WELDS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.7. STEEL WELDS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

5.8. STEEL WELDS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

6.1. CONCRETE DESIGN SUBMITTALS

- 6.1.1. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 6.1.2. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

6.2. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS

- 6.2.1. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 6.2.2. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

6.3. PRECAST CONCRETE PRODUCTS

- 6.3.1. PRECAST CONCRETE PRODUCTS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 6.3.2. PRECAST CONCRETE PRODUCTS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

6.4. ENGINEERS OF RECORD SHALL REVIEW SHOP DRAWINGS FOR GENERAL COMPLIANCE WITH THE PROJECT REQUIREMENTS AND FOR ANY DISCREPANCIES.

6.5. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER OF RECORD SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

6.6. ALL DIMENSIONS AND CONDITIONS IN THE FIELD SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

7.1. GENERAL

- 7.1.1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 7.1.2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

7.2. EXCAVATION

- 7.2.1. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.
- 7.2.2. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.

7.3. FOUNDATION

- 7.3.1. FOUNDATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.
- 7.3.2. FOUNDATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.

7.4. SEISMIC DESIGN

- 7.4.1. ALL SEISMIC DESIGN SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
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7.5. CONSTRUCTION

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- 7.5.2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

7.6. METALS

- 7.6.1. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 7.6.2. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

8.1. GENERAL

- 8.1.1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
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- 8.6.2. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

9.1. CONCRETE DESIGN SUBMITTALS

- 9.1.1. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 9.1.2. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

9.2. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS

- 9.2.1. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 9.2.2. STRUCTURAL AND MISCELLANEOUS STEEL INCLUDING WELD INSERTS AND ANCHORS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

9.3. PRECAST CONCRETE PRODUCTS

- 9.3.1. PRECAST CONCRETE PRODUCTS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 9.3.2. PRECAST CONCRETE PRODUCTS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

9.4. ENGINEERS OF RECORD SHALL REVIEW SHOP DRAWINGS FOR GENERAL COMPLIANCE WITH THE PROJECT REQUIREMENTS AND FOR ANY DISCREPANCIES.

9.5. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER OF RECORD SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

9.6. ALL DIMENSIONS AND CONDITIONS IN THE FIELD SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

10.1. GENERAL

- 10.1.1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 10.1.2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

10.2. EXCAVATION

- 10.2.1. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.
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- 10.6.2. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

11.1. CONCRETE DESIGN SUBMITTALS

- 11.1.1. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 11.1.2. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

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- 11.3.2. PRECAST CONCRETE PRODUCTS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

11.4. ENGINEERS OF RECORD SHALL REVIEW SHOP DRAWINGS FOR GENERAL COMPLIANCE WITH THE PROJECT REQUIREMENTS AND FOR ANY DISCREPANCIES.

11.5. APPROVAL OF THE SHOP DRAWINGS BY THE ENGINEER OF RECORD SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

11.6. ALL DIMENSIONS AND CONDITIONS IN THE FIELD SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

12.1. GENERAL

- 12.1.1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 12.1.2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

12.2. EXCAVATION

- 12.2.1. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.
- 12.2.2. EXCAVATIONS SHALL BE PERFORMED TO THE REQUIRED DEPTH AND TO THE REQUIRED WIDTH AND LENGTH.

12.3. FOUNDATION

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- 12.6.2. METALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.

13.1. CONCRETE DESIGN SUBMITTALS

- 13.1.1. CONCRETE DESIGN SUBMITTALS SHALL BE IN ACCORDANCE WITH THE 2015 IBC AND ASCE 7 CHAPTERS 6 & 7.
- 13.1.2. CONCRE



5.3. WELDING

5.3.1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL STEEL CONSTRUCTION" PART 5.11.01.1 AND 5.11.01.2 AS APPROPRIATE.

5.3.2. ALL WELDING SHALL BE BY CERTIFIED WELDERS USE 70 INGS LOW HYDROGEN ELECTRODES FOR ALL WELDS. ALL WELDS SHALL BE FULL PENETRATION WELDS AND SHALL BE NOTCH TOUGH TO MEET CHARPY WITCH OF 20 FOOT-POUND AT -20°.

5.3.3. WELDED CONNECTIONS AND SHOP WELDS SHALL BE FULL TIME INSPECTED AND TESTED BY NON DESTRUCTIVE PROCEDURES. RESULTS OF TESTS SHALL BE SUBMITTED FOR REVIEW BY THE DESIGNER.

5.4. WELDING PROCEDURE SPECIFICATION (WPS)

5.4.1. FOR ALL WELDING OF REINFORCING STEEL, NON PREQUALIFIED WELDS AND ALL WELDING OF COMPONENTS WHICH ARE PART OF THE STRUCTURAL SYSTEM, THE CONTRACTOR SHALL SUBMIT A WELDING PROCEDURE SPECIFICATION (WPS) TO ENGINEER FOR APPROVAL. PRIOR TO WELDING, EACH WPS SHALL INCLUDE ALL INFORMATION AS REQUIRED BY AWS D1.1, AWS D1.4 AND AWS D1.8 AND AS FOLLOWS:

- APPLICABLE BASE METAL TYPES AND THICKNESSES.
- SKETCH OF JOINT INDICATING APPLICABLE DIMENSIONS, INDIVIDUAL WELDS AND WELD METALS TO BE USED, WELDED JOINT SEQUENCE, THE METHOD SHALL IDENTIFY THE MINIMUM THICKNESS AND GRADE WITH WHICH EACH JOINT SHALL BE WELDED EXCEED ANY OTHER REQUIREMENTS.
- PREHEAT REQUIREMENTS.
- ELECTRICAL CHARACTERISTICS (I.E. CURRENT, VOLTAGE, TRAVEL SPEED, ETC).
- ELECTRICAL REQUIREMENTS SHALL MEET THE REQUIREMENTS OF AWS D1.1, D1.4, D1.8 AND D1.9. THE IDENTIFICATION CODE IDENTIFIER SHALL BE AS24 AND AWS A24, AS APPLICABLE FOR WELDING METHOD USED.

5.5. COLD FORMED STEEL FRAMING

5.5.1. ALL STUD AND/OR JOIST FRAMING MEMBERS SHALL BE OF THE TYPE MANUFACTURED BY THE STEEL MANUFACTURER CURRENT MEMBER OF THE STEEL STRUCTURE MANUFACTURERS ASSOCIATION (SSMA).

5.5.2. ALL STRUCTURAL STEEL STUDS AND JOISTS HAVE BEEN SPECIFIED TO MEET THE REQUIREMENTS OF THE STEEL MANUFACTURERS ASSOCIATION (SSMA). THE IDENTIFICATION CODE IDENTIFIER SHALL BE AS24 AND AWS A24. THE IDENTIFICATION CODE IDENTIFIER SHALL BE AS24 AND AWS A24. THE IDENTIFICATION CODE IDENTIFIER SHALL BE AS24 AND AWS A24. THE IDENTIFICATION CODE IDENTIFIER IS AVAILABLE AT WWW.SSMA.COM.

5.5.3. FOR EXAMPLE, 60S 125 - 45 (20)  
 60S REFERS TO MEMBER DEPTH (60 X 1100 X 47)  
 125 REFERS TO SECTION TYPE (S-47UDL 1" TRACK)  
 45 REFERS TO FLANGE WIDTH (125 X 1100 X 127)  
 47 REFERS TO MEMBER THICKNESS (47 INCHES OR 1.64 INCHES) TO YIELD STRENGTH (50) IF OTHER THAN NOTED BELOW.

5.5.4. ALL STUDS AND/OR JOISTS, 12, 13, 14 AND 16 GAGE SHALL BE MANUFACTURED TO MEET THE REQUIREMENTS OF THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

5.5.5. BRACING, END CLOSURES AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

5.5.6. ALL STUDS, JOISTS AND ACCESSORIES SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF THE AMERICAN IRON AND STEEL INSTITUTE STANDARDS WITH A MINIMUM YIELD STRENGTH OF 50 KSI.

5.5.7. ALL FRAMING COMPONENTS SHALL BE CUT FOR A TIGHT FIT AGAINST ADJACENT MEMBERS, UNLESS SHOWN OTHERWISE. MEMBERS SHALL BE FULLY CONTACTED AT ALL CORNERS AND JOISTS SHALL BE FULLY CONTACTED TO STUBS.

5.5.8. AXIALLY LOADED STUDS SHALL BE INSTALLED IN A MANNER WHICH WILL ASSURE THAT ENDS OF THE STUDS ARE POSITIONED AGAINST THE INSIDE TRACK WELD PROFIT TO STUD AND TRACK ATTACHMENT.

5.5.9. THE END OF STUDS SHALL BE POSITIONED AGAINST THE INTERIOR WALLS AND EXTERIOR WELLS SHALL HAVE VERTICAL SEPARATION CAPABILITY BETWEEN WALL AND ROOF FLOOR JOISTS SPACING THEREIN.

5.6. SURE-BOND SHEATHING

SURE-BOND SHALL BE SURE-BOND SERIES 200 STRUCTURAL PANELS AS MANUFACTURED BY INTERMAT IN ACCORDANCE WITH IPMS 65.

5.6.1. INSTALLATION OF PANELS SHALL CONFORM WITH IPMS 65 B AND THE SURE-BOND SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

5.6.2. THE SURE-BOND SHEATHING SHALL BE SHOWN AS PER THE SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

5.6.3. THE SURE-BOND SHEATHING SHALL BE SHOWN AS PER THE SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

5.6.4. THE SURE-BOND SHEATHING SHALL BE SHOWN AS PER THE SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

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5.6.8. THE SURE-BOND SHEATHING SHALL BE SHOWN AS PER THE SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

5.6.9. THE SURE-BOND SHEATHING SHALL BE SHOWN AS PER THE SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.

5.6.10. THE SURE-BOND SHEATHING SHALL BE SHOWN AS PER THE SHEATHING SCHEDULE PROVIDED ON THE STRUCTURAL DRAWINGS.



11. STATEMENT OF SPECIAL INSPECTIONS

BC	S1	S2	TITLE
1101.1	✓	✓	STEEL CONSTRUCTION (SEE TABLES 13.2, 13.6, 13.9, 13.10, AND 13.12)
1101.2	✓	✓	SOILS (SEE TABLE 13.1)
1101.3	✓	✓	STRUCTURAL STEEL - SEISMIC FORCE RESISTING SYSTEM
1101.4	✓	✓	COLD FORMED STEEL FRAMING - SEISMIC FORCE RESISTING SYSTEM

- S1 = SPECIAL INSPECTION
- S2 = STRUCTURAL OBSERVATION
- ✓ = ITEMS REQUIRED
- ✗ = ITEMS NOT REQUIRED

SPECIAL INSPECTIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. SEE ARCH, MECH AND ELEC DRAWINGS FOR ADDITIONAL SPECIAL INSPECTIONS.

11.1. INSPECTION REQUIREMENTS FOR SECTIONS 11.0 AND CHAPTER 11.

11.2. INSPECTIONS BY THE BUILDING OFFICIAL (BC) SECTION 11.0.

11.2.1. FOOTING AND FOUNDATION INSPECTIONS SHALL BE MADE AFTER EXCAVATIONS ARE COMPLETE AND ANY REQUIRED REMEDIATION WORK SHALL BE IN PLACE PRIOR TO INSPECTION.

11.2.2. CONCRETE SLAB AND UNDER FLOOR INSPECTIONS SHALL BE MADE AFTER ALL IN SLAB OR UNDER FLOOR WORK IS COMPLETE AND ALL ACCESSORIES ARE IN PLACE BUT PRIOR TO CONCRETE PLACEMENT OR FLOOR BEATING INSTALLATION.

11.2.3. FRAMING INSPECTIONS SHALL BE MADE AFTER ALL BREATHING, FRAMING, BLOCKING AND BRACING ARE COMPLETE AND ALL PIPES, DUCTS, ELECTRICAL, PLUMBING, ETC. ARE INSTALLED AND APPROVED PRIOR TO COVER.

11.2.4. INSPECTIONS OF ANY CONSTRUCTION WORK TO BE INSTALLED OR PLACED ON OR ABOVE AN EXISTING STRUCTURE SHALL BE MADE IN ACCORDANCE WITH THE PROVISIONS OF THE BC OR OTHER LAWS ENFORCED BY THE BUILDING OFFICIAL.

11.3. STRUCTURAL TESTS AND SPECIAL INSPECTIONS (BC CHAPTER 17).

11.3.1. SEE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

11.3.2. STRUCTURAL TESTS AND SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL (BC) SECTION 17.0.

11.3.3. THE LIST OF TESTING AND INSPECTION REQUIREMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING TESTING AND INSPECTION REQUIRED BY THE SPECIFICATIONS, THE BC AND THE BUILDING OFFICIAL.

11.3.4. CONSTRUCTION OBSERVATION REPORTS AND FINDINGS SHALL NOT BE VIEWED AS A WARRANTY OR GUARANTEE BY THE STRUCTURAL ENGINEER.

11.4. STRUCTURAL OBSERVATION SHALL BE CURRENTLY TRAINED AND UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

11.4.1. STRUCTURAL OBSERVATION SHALL BE PERFORMED DURING CONSTRUCTION IN A MANNER AS REQUIRED TO BECOME GENERALLY FAMILIAR WITH THE IN PLACE CONSTRUCTION.

11.4.2. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

11.4.3. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, ENGINEER OF RECORD, AND THE CONTRACTOR IMMEDIATELY UPON COMPLETION OF THE INSPECTION. THESE REPORTS SHALL BE IMMEDIATE ATTENTION OF THE GENERAL CONTRACTOR FOR CORRECTION. THEY ARE NOT IN CONFORMANCE TO THE PROPER DESIGN AUTHORITY AND BUILDING OFFICIAL.

11.5. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT WITHIN 10 BUSINESS DAYS OF THE WORK AND THE FINAL CALL WORKMANSHIP PROVISIONS OF THE BC. THE REPORT SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.

12A. REQUIRED SPECIAL INSPECTIONS AND TEST OF SOILS

BC	S1	S2	TITLE
12A.1	✓	✓	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO SUPPORT STRUCTURE
12A.2	✓	✓	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE PROTECTED PROPER MATERIAL
12A.3	✓	✓	VERIFY PROPER MATERIAL TESTING OF COMPACTED FILL MATERIAL
12A.4	✓	✓	VERIFY USE OF PROPER MATERIALS, SANDSIES, AND LIFT THICKNESSES
12A.5	✓	✓	VERIFY PLACEMENT AND COMPACTON OF COMPACTED FILL
12A.6	✓	✓	VERIFY PROPER SLOPE, PROTECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY

12.1. SPECIAL INSPECTIONS AND TESTS FOR EXISTING SITE SOIL CONDITIONS, FILL PLACEMENT AND LOAD-BEARING REQUIREMENTS PER BC 1704.6, AS NOTED IN TABLE 12A.

12.1.1. THE APPROVED GEOTECHNICAL REPORT AND THE CONSTRUCTION DOCUMENTS PREPARED BY THE REGISTERED DESIGN PROFESSIONALS SHALL BE USED TO DETERMINE COMPLIANCE.

13. CONSTRUCTION

BC	S1	S2	TITLE
13.1	✓	✓	INSPECT REINFORCEMENT INCLUDING PRESTRESSING TENDONS AND VERIFY PLACEMENT
13.2	✓	✓	INSPECT ANCHORS CAST IN CONCRETE AND CONCRETE MEMBERS
13.3	✓	✓	INSPECT ANCHORS INSTALLED IN CONCRETE MEMBERS
13.4	✓	✓	INSPECT ANCHORS AND ADHESIVE ANCHORS
13.5	✓	✓	VERIFY USE OF REQUIRED DESIGN MIX
13.6	✓	✓	INSPECT CONCRETE EXHAUSTIVE TESTS, SLUMP AND AIR CONTENT TESTS, PERFORM TESTS AT THE TEMPERATURE OF THE CONCRETE
13.7	✓	✓	INSPECT CURING OF PRECAST CONCRETE
13.8	✓	✓	INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING CAST

13.1. CONCRETE SPECIAL INSPECTION AND TESTING PER BC TABLE 1705.3 AS NOTED IN TABLE 13.1, INCLUDING 13.1.1. CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES

13.2. CONTINUOUS SPECIAL INSPECTION OF SOILS INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE

13.3. SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION OF ANCHORS INSTALLED IN HARDENED CONCRETE SHALL BE AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (E.G. IPAC, ETC.)

13.4. SPECIAL INSPECTIONS AND TESTS SHALL NOT BE REQUIRED FOR THE FOLLOWING: 13.4.1. NONSTRUCTURAL CONCRETE SUBS ON GRADE

15A. REQUIRED SPECIAL INSPECTION AND TESTS OF STRUCTURAL STEEL CONSTRUCTION - INSPECTION OF WELDING

BC	S1	S2	TITLE
15A.1	✓	✓	INSPECT WELDING PROCEDURE SPECIFICATIONS (WPS)
15A.2	✓	✓	INSPECT WELDING PROCEDURE SPECIFICATIONS (WPS)
15A.3	✓	✓	MATERIAL IDENTIFICATION OF STRUCTURAL STEEL MEMBERS
15A.4	✓	✓	FIT UP OF GROOVE WELDS INCLUDING JOINT GEOMETRY
15A.5	✓	✓	DIMENSIONAL ALIGNMENT, ROOT OPENING, ROOT FACE BEVEL
15A.6	✓	✓	WELDING PROCEDURE SPECIFICATIONS (WPS)
15A.7	✓	✓	BACKING TYPE AND FIT UP (APPLICABLE)
15A.8	✓	✓	CONFIGURATION AND FINISH OF ACCESS HOLES
15A.9	✓	✓	CLEANLINESS CONDITION OF STEEL SURFACES
15A.10	✓	✓	TACKING TACK WELD QUALITY AND LOCATION
15A.11	✓	✓	DRYING WELDING EQUIPMENT

15.1. DURING WELDING, VERIFY AND INSPECT THE FOLLOWING: 15.1.1. USE OF QUALIFIED WELDERS 15.1.2. CONTROL AND MONITORING OF WELDING CONSUMABLES 15.1.3. DISPOSURE CONTROL 15.1.4. NO WELDING OVER CRACKED TACK WELDS 15.1.5. ENVIRONMENTAL CONDITIONS 15.1.6. PRESCRIPTION AND TEMPERATURE 15.1.7. WELDING PROCEDURE SPECIFICATIONS FOLLOWED 15.1.8. SETTINGS ON WELDING EQUIPMENT 15.1.9. SELECTED WELDED MATERIALS 15.1.10. SHIELDING GAS TYPE AND FLOW RATE 15.1.11. PREHEAT APPLIED 15.1.12. WELDS SHALL BE MAINTAINED 15.1.13. PROPER POSITION 15.1.14. WELDING TECHNIQUES 15.1.15. INTERPASS AND FINAL CLEANING 15.1.16. WELDING PROCEDURE SPECIFICATIONS 15.1.17. EACH PANEL MEETS QUALITY REQUIREMENTS

15.2. AFTER WELDING, VERIFY AND INSPECT THE FOLLOWING: 15.2.1. WELDS CLEANED 15.2.2. LOCATION OF WELDS 15.2.3. WELDS MEET VISUAL ACCEPTANCE CRITERIA 15.2.4. CRACK PROHIBITION 15.2.5. WELD TO BASE METAL FUSION 15.2.6. WELD TO WELD FUSION 15.2.7. WELD PROFILES 15.2.8. WELD SIZE 15.2.9. UNDERCUT 15.2.10. WELD STAGNES 15.2.11. LAMEA 15.2.12. BACKING REMOVED AND WELDED TACKS REMOVED, IF REQUIRED 15.2.13. REPAIR ACTIVITIES 15.2.14. VISUAL ACCEPTANCE OR REACTION OF WELDED JOINT OR MEMBER



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Revised: \_\_\_\_\_

TESTING AND INSPECTION

S0.3

15.B REQUIRED SPECIAL INSPECTION AND TESTS OF STRUCTURAL STEEL CONSTRUCTION - INSPECTION OF BOLTING

SPECIAL INSPECTION OR TEST TYPE	CONTINUOUS INSPECTION	PERIODIC INSPECTION	REFERENCED STANDARD
ASC 360 TABLE N6.6.1			
1. A. MARK UP NON-FERROUS SURFACES OF ALL FASTENERS AND HARDWARE TO BE INSTALLED TO BE IDENTIFIED TO MATCH WITH THE FABRICATION PART AND FASTENING MATERIALS.	✓	NR	
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	NR	✓	ASC 360 A31
C. PROPER FASTENER SELECTED FOR JOINT DETAIL.	NR	✓	
D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	NR	✓	
E. FASTENERS MARKED TO IDENTIFY THE DATE OF INSTALLATION, THE SURFACE CONDITIONS AND GALL PREPARATION, IF SPECIFIED.	NR	✓	
F. FASTENERS MARKED TO IDENTIFY THE DATE OF INSTALLATION, THE PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER INSTALLATION.	✓	NR	
G. FASTENERS MARKED TO IDENTIFY THE DATE OF INSTALLATION, THE FASTENING SYSTEM AND THE LOCATION OF THE FASTENER COMPONENTS.	NR	✓	
ASC 360 TABLE N6.2			
2. A. SURFACE AREA, VENTY AND SUBJECT TO THE DESIGN FASTENER ASSUMES OF FULL TIGHT CONDITION, PLACED IN ALL HOLS AND WIDERS IF REQUIRED ARE POSITIONED AS	NR	✓	
B. JOINT BROUGHT TO THE SNAG-TIGHT CONDITION PRIOR TO THE FASTENER INSTALLATION.	NR	✓	
C. FASTENER COMPONENT NOT TURNED BY THE BENCH PRESENTED FROM ROTATING.	NR	✓	
D. FASTENERS MARKED TO IDENTIFY THE DATE OF INSTALLATION, THE PERSONNEL OBSERVED AND DOCUMENTED FOR THE FASTENING SYSTEM, THE FASTENING SYSTEM AND THE LOCATION OF THE FASTENER COMPONENTS.	NR	✓	
ASC 360 TABLE N6.3			
3. A. AFTER BOLTING, VERIFY AND INSPECT THE FOLLOWING CONNECTIONS:	✓	NR	

- 14.1. STRUCTURAL STEEL CONSTRUCTION
- SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS SHALL BE IN ACCORDANCE WITH THE QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS OF ASC 360, AS NOTED IN TABLES 51A, 10B, 10C, AND A10S D 1.1.
- 14.1.1. INSPECTION OF ERECTED STEEL SYSTEM
- 14.1.2. REVIEW OF MATERIAL TEST REPORTS AND CERTIFICATIONS FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.
- 14.1.3. OBSERVATION OF WELDING OPERATIONS AND VISUAL INSPECTION OF IN-PROGRESS AND COMPLETED WELDS SHALL BE AS FOLLOWS
- A. VERIFY THAT WELDER MATERIAL AND MANUFACTURERS CERTIFICATE OF COMPLIANCE CORRESPOND TO AWG SPECIFICATIONS AND THAT WELDING PROCEDURES AND WELDING CONDITIONS ARE USED.
  - B. PERIODIC SPECIAL INSPECTION OF WELDING SHALL BE PERFORMED FOR SINGLE PASS FILLET WELDERS.
  - C. THROUGH THICK TO SIX AND FOUR AND SIX WELDS. REWORKED OR COMPLETE AND PARTIAL.
  - D. PENETRATION GROOVE WELDS AND FILLET WELDS GREATER THAN 3/16".
  - E. ALL WELDS SHALL BE CHECKED VISUALLY.
  - F. ALL SHOP AND FIELD WELDING SHALL BE SUBJECT TO INSPECTION BY A MARK CERTIFIED WELDING INSPECTOR.
  - G. WELDS TO BE INSPECTED FOR DEFECTS, CORROSION, AND UNDESIRABLE WELD METALLURGY. WELDS SHALL BE MARKED FOR PARTIAL TESTING AND ANY OTHER AID TO VISUAL INSPECTION THAT MAY BE DEEMED NECESSARY TO ASSESS THE ADEQUACY OF WELDING. THE OWNER SHALL CARRY OUT TESTING AND INTERPRETATION AT ANY STAGE.
  - H. WELDS TO BE INSPECTED FOR DEFECTS, CORROSION, AND UNDESIRABLE WELD METALLURGY. WELDS SHALL BE MARKED FOR WELD PARTICLE TESTING.
  - I. 10% OF ALL FILLET WELDS SHALL BE CHECKED BY MAGNETIC PARTICLE TESTING.
  - J. 10% OF ALL COMPLETE PENETRATION WELDS SHALL BE CHECKED BY ULTRASONIC TESTING.
  - K. ALL WELDS FOUND DEFECTIVE AND REPAIRED SHALL BE REINSPECTED BY THE SAME METHOD ORIGINALLY USED. THE COST OF REPAIR AND REINSPECTION SHALL BE BORNE BY THE CONTRACTOR.
  - L. STANDARDS FOR ACCEPTANCE SHALL BE AS GIVEN IN AWS D1.1.
- 14.1.4. OBSERVATION OF BOLTING OPERATIONS
- 14.1.5. CONTINUOUS SPECIAL INSPECTION SHALL BE PERFORMED FOR EACH JOINT OR MEMBER. PERIODIC SPECIAL INSPECTION SHALL BE PERFORMED FOR EACH MEMBER OR GROUP BASIS. PERIODIC SPECIAL INSPECTION NEED NOT RELAY FABRICATION OR ERECTION OPERATIONS.
- 14.1.6. EPOXY ANCHORS. SPECIFIC REQUIREMENTS FOR INSPECTION OF ANCHORS INSTALLED IN UNHARDENED CONCRETE OR MASONRY SHALL BE AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (ICC, IMPAC, ETC.).
- 14.1.7. INSPECTION OF ANCHORS AND EMBEDMENTS SHALL BE AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (ICC, IMPAC, ETC.).

- 15.1. SPECIAL INSPECTIONS AND TESTING FOR SEISMIC RESISTANCE
- 15.1.1. SYSTEM IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, OR F FOR THE FOLLOWING
- A. SPECIAL INSPECTIONS OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF ASC 341.
  - B. PERIODIC SPECIAL INSPECTION OF STEEL ATTACHMENT, BOLTING, ANCHORS AND OTHER FASTENING OF WALLS, SHEARWALLS, COLLECTORS BRACES AND HOODINGS. SPECIAL INSPECTION IS NOT REQUIRED FOR SEISMIC DESIGN CATEGORY C, D, OR F FOR STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, OR F FOR THE FOLLOWING SPACING OF THE BEARING IS ON ONE SIDE OF THE SHEARWALL ONLY AND IS GREATER THAN 12 INCHES ON EITHER
  - C. SPECIAL INSPECTION DURING THE ERECTION AND FASTENING OF EXTERIOR CLADDING, INTERIOR AND EXTERIOR WIND-BEARING WALLS, AND INTERIOR AND EXTERIOR VENEER IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F PER IRC 1003.12.3.
- 15.1.2. TESTING OF WELDS SHALL BE AS REQUIRED FOR SEISMIC PERFORMANCE EVALUATION FOR SEISMIC PERFORMANCE BASED DESIGN SYSTEMS AS DESCRIBED IN THE RESEARCH REPORT ISSUED BY AN APPROVED SOURCE (ICC, IMPAC, ETC.).
- A. NONDESTRUCTIVE TESTING FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE REQUIREMENTS OF ASC 341.
  - B. SEISMIC ISOLATION SYSTEMS SHALL BE TESTED IN ACCORDANCE WITH SECTION 17.7 OF AISC 341.

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TESTING AND  
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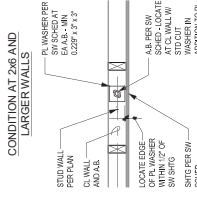
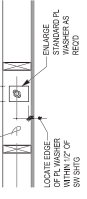
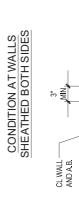
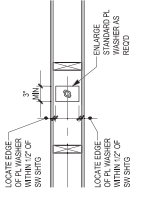
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ABBREVIATIONS  
AND SCHEDULES

S0.5

FOOTING SCHEDULE table with columns: MARK, SIZE, REINFORCING, REMARKS

- FOOTING SCHEDULE NOTES: 1. TOP OF FOOTING ELEVATION... 2. FOOTING DESIGN BASED ON 3000 PSI ALLOWABLE SOIL BEARING PRESSURE...



SHEARWALL SCHEDULE table with columns: MARK, SIGHTING, NAILING, STUD BEAT, BOOING, FOUNDATION SILL PL. ATTACHMENT, 2x BOTTOM PLATE, ASD ALLOWABLE LIMIT, ASD ALLOWABLE LIMIT

- APARATED SHEARWALL NOTES: 1. WALLS SHALL BE CONFORM TO AN AMERICAN OR CANADIAN... 2. APA RATED SHEARWALL MATERIAL... 3. SHEARWALL PANELS SHALL NOT BE LESS THAN 4\"/>

KEY TO ABBREVIATIONS table with columns: AB, AD, ADJ, ADU, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ









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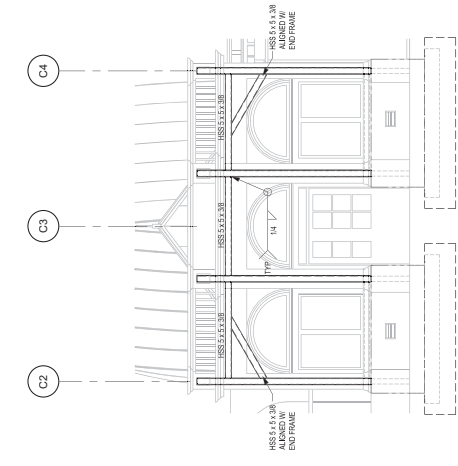
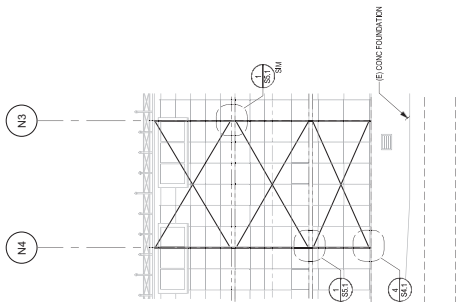
W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
318 S ST. TACOMA, WA 98402

Drawn by: SSO  
Checked: AS  
Date: 12.10.19  
Scale: As Indicated  
Revised: \_\_\_\_\_  
No. \_\_\_\_\_ Date: \_\_\_\_\_  
Revised: \_\_\_\_\_

ELEVATIONS

S3.1



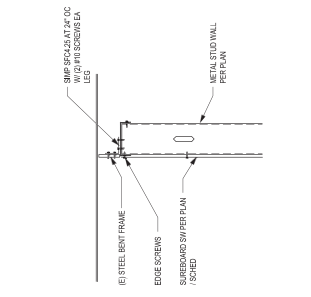
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ELEVATION  
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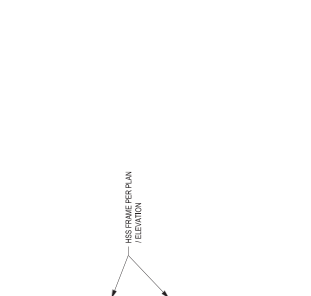
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ELEVATION  
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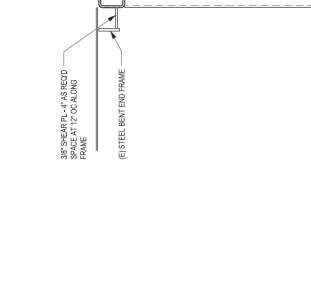




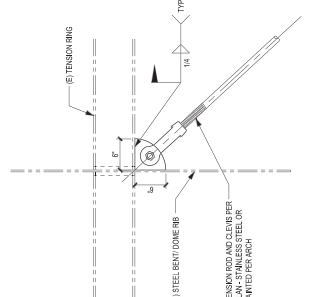
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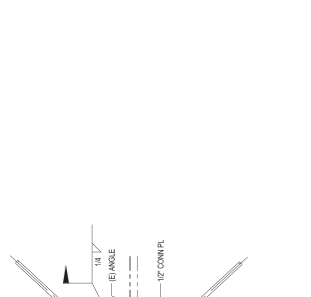
**SECTION 2**  
 1" = 1'-0"



**SECTION 3**  
 1" = 1'-0"



**SECTION 4**  
 1" = 1'-0"



**SECTION 5**  
 1" = 1'-0"



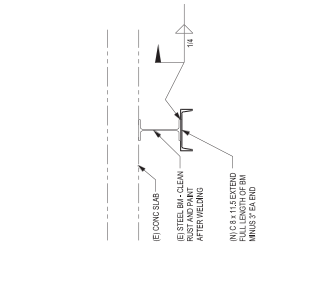
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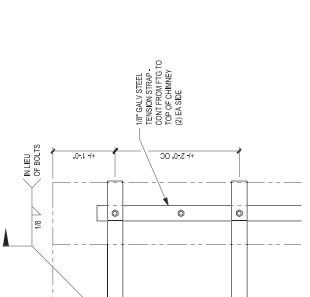
**SECTION 2**  
 1" = 1'-0"



**SECTION 3**  
 1" = 1'-0"



**SECTION 4**  
 1" = 1'-0"



**SECTION 5**  
 1" = 1'-0"

PLUMBING GENERAL NOTES

1. PROVIDE COMPLETE SUPPORTS, SEISMIC AND RESTRAINTS FOR ALL PIPES AND EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, THE SPECIFICATIONS, AND AS REQUIRED MISCELLANEOUS STRUCTURAL STEEL SUPPORTS, ATTACHMENTS, AND ANCHORAGES.
2. PROVIDE ALL REQUIRED MISCELLANEOUS STRUCTURAL STEEL SUPPORTS, ATTACHMENTS, AND ANCHORAGES.
3. PROVIDE ANCHOR BOLTS OF SIZE, TYPE, AND LENGTH AS REQUIRED TO SATISFY THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS, THE SPECIFICATIONS, AND AS REQUIRED MISCELLANEOUS STRUCTURAL STEEL SUPPORTS, ATTACHMENTS, AND ANCHORAGES.
4. PROVIDE ADDITIONAL MISCELLANEOUS STRUCTURAL MEMBERS BETWEEN STRUCTURAL ELEMENTS AS REQUIRED TO RESIST FORCES AND MEET DEFLECTION REQUIREMENTS. ALL MISCELLANEOUS STRUCTURAL MEMBERS AND ANCHORAGES SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. ALL WELDS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER. ALL WELDS SHALL BE MADE ON PORTIONS OF STRUCTURAL MEMBERS AT OR NEAR CONNECTIONS BETWEEN STRUCTURAL MEMBERS OR ON ELEMENTS DESIGNATED IN THE SEISMIC LOAD RESISTING SYSTEM UNLESS APPROVED BY THE CONTRACTING OFFICER.
5. ALL MISCELLANEOUS STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE DESIGNED AND CALCULATIONS FOR REVIEW BY THE CONTRACTING OFFICER. ALL REQUIRED MISCELLANEOUS STRUCTURAL MEMBERS, BOLTS, AND WELDS SHALL BE INSTALLED WITHIN THE MANIFOLD OF THE CONSERVATORY SHALL BE CONCEALED UNLESS OTHERWISE INDICATED OR ACCEPTED BY THE ARCHITECT.
6. ALL DOMESTIC HOT WATER PIPING TO FIXTURES SHALL BE DONE IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE 2018 EDITION PROVISIONS INCLUDING SECTION C404.3.

PLUMBING ABBREVIATIONS

AW	ACID WASTE
A	ARK COMPRESSED AIR
BFP	BACK FLOW PREVENTER
BOP	BOTTOM OF PIPE
C	CONDENSATE
CA	COMPRESSED AIR
CI	CAST IRON
CF	CHEMICAL FEED
CH	CHEMICAL HOT WATER
CHC	CITY WATER DOMESTIC COLD WATER
CHW	CITY WATER DOMESTIC HOT WATER
CO	CLEANOUT
CA	COMPRESSED AIR
DI	DEIONIZED WATER
DW	DISTILLED WATER
DOM	DOMESTIC
DR	DOOR DRAIN
DF	DRAIN FOUNTAIN
ES	EMERGENCY SHOWER
FCO	FLOOR CLEAN OUT
FFHB	FREEZE PROOF HOSE BBB
GPH	GALLONS PER HOUR
HB	HOSE BBB
HW	DOMESTIC HOT WATER
HWC	DOMESTIC HOT WATER CIRCULATING
IPC	INTERNATIONAL PLUMBING CODE
IW	INDIRECT WASTE
JAN	JANITOR
L	LAVATORY
IV	MEDICAL VACUUM
N	NITROGEN
NG	NITROGEN GAS
NO	NITROUS OXIDE NUMBER
NPW	NON-POTABLE WATER
O	OXYGEN
PC	PUMPED CONDENSATE
PLBG	PLUMBING
PNEUJ	PNEUMATIC
PRV	PRESSURE REDUCING VALVE
RWL	RAIN WATER LEADER
RECIRC	RE-CIRCULATING
RD	ROOF DRAIN
S	SOIL
SS	SANITARY SEWER SERVICE SINK STAINLESS STEEL
SD	STORM DRAIN
UPC	UNIFORM PLUMBING CODE
V	VENT
VAC	VACUUM
VAC	VACUUM
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
W	WASTE WATER WIDE(DIM)
WC	WATER CLOSET
WFS	WATER FLOW SWITCH
Y	WYE

PLUMBING LEGEND

	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (HW)
	DOMESTIC HOT WATER CIRCULATING (HWC)
	SOIL WASTE (SW)
	VENT (V)
	PIPING IDENTIFIER. SEE ABBREVIATIONS
	ELBOW DOWN
	ELBOW UP
	TEE
	TEE DOWN
	TEE UP
	ISOLATION OR SHUT OFF VALVE (NO) TYP AS SPECIFIED
	ISOLATION OR SHUT OFF VALVE (NG) TYP AS SPECIFIED
	BALL VALVE (NO)
	BALL VALVE (NC)
	BUTTERFLY VALVE (NO)
	BUTTERFLY VALVE (NC)
	GLOBE VALVE (NO)
	GLOBE VALVE (NC)
	THROTTLING VALVE (TYP AS SPECIFIED)
	METERING BALANCING VALVE
	CHECK VALVE
	CONTROL VALVE
	PLUG VALVE
	PRESSURE REGULATING VALVE
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	BACKFLOW PREVENTER
	CAP
	BLIND FLANGE
	EXPANSION JOINT
	REDUCER
	PRESSURE GAUGE
	STRAINER
	UNION
	PRESSURE/TEMPERATURE TAP
	TEMPERATURE GAUGE



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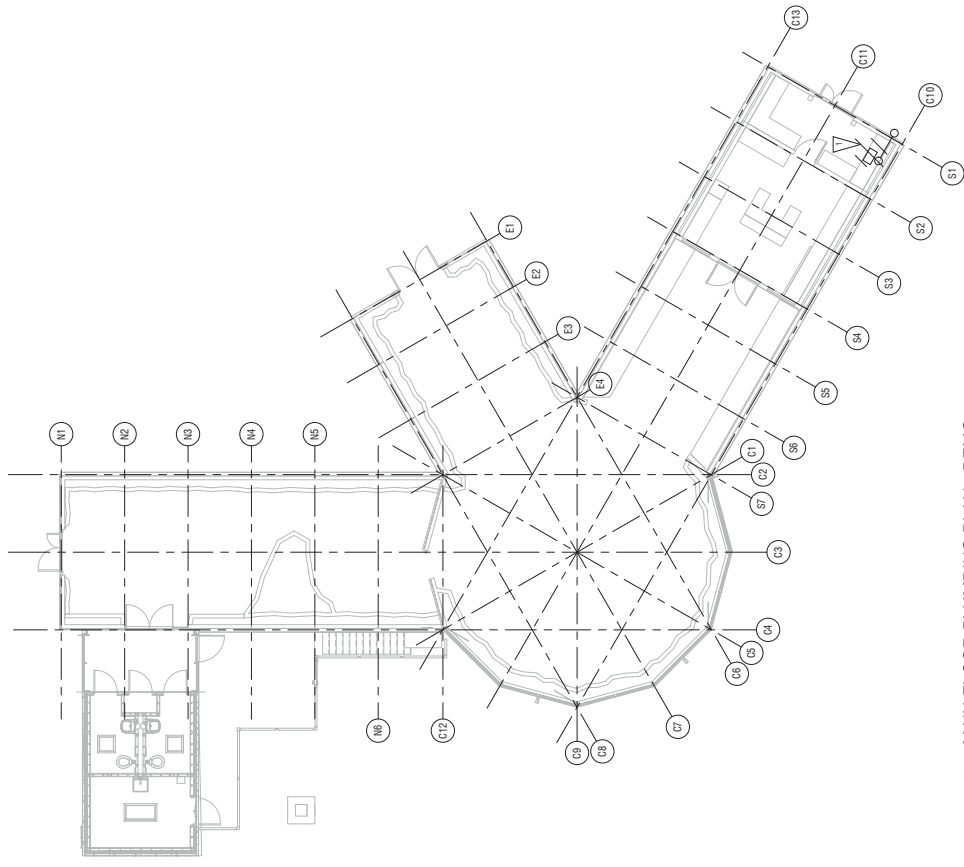
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PLUMBING  
LEGEND,  
ABBREVIATIONS  
AND GENERAL  
NOTES

P0.0

**CONSTRUCTION NOTES:** SHKS ARCHITECTS

DEMOSINK AND DOMESTIC HW PIPING BACK TO WATER HEATER PROJECT DOMESTIC CW, SAN, AND VENT PIPE RECONNECTION



2 MAIN FLOOR PLUMBING PLAN - DEMO  
1/8" = 1'-0"

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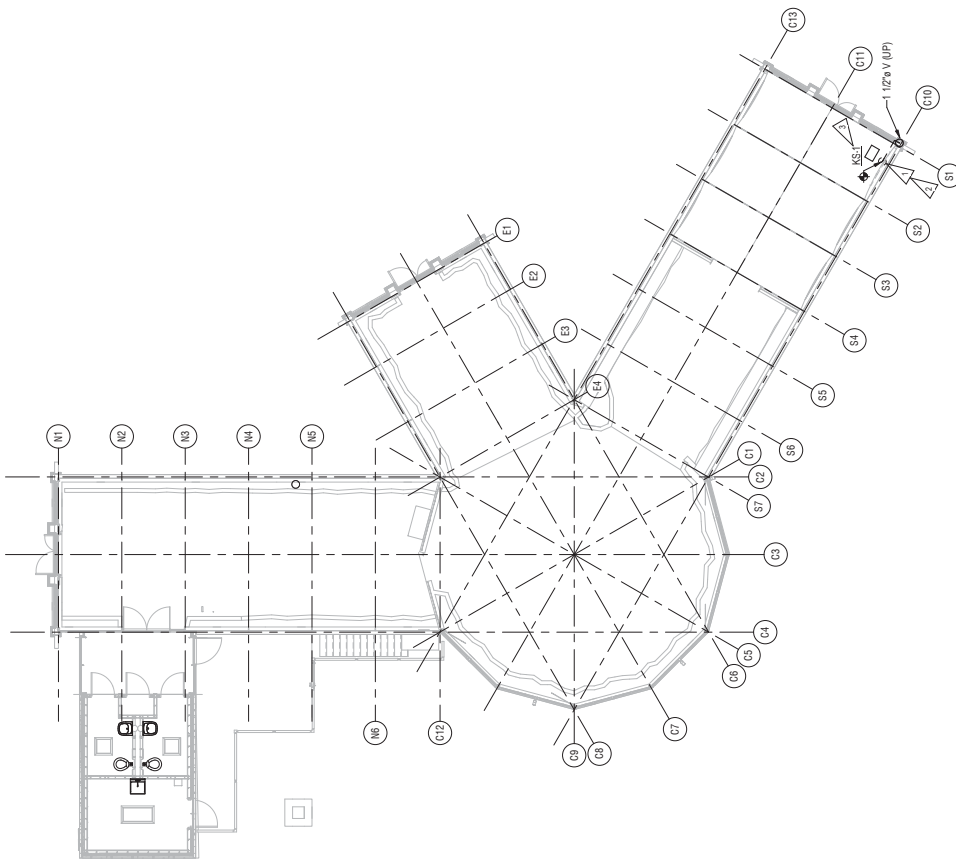
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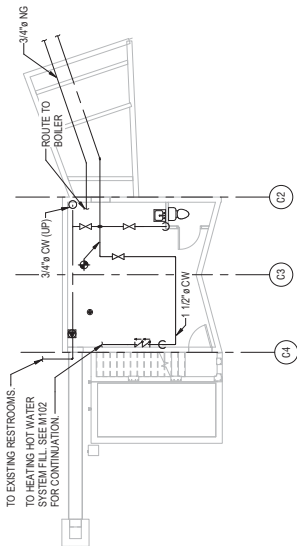
PLUMBING DEMO  
PLAN  
**PD2.1**

**CONSTRUCTION NOTES:** SHKS ARCHITECTS

- △ CONNECT TO EXISTING WASTE AS PREVIOUS SINK LOCATION
- △ ROUTE VENT PIPE A MINIMUM 6" ABOVE ROOF LINE
- △ CONNECT SINK TO EXISTING DOMESTIC CW. MOUNT WH-1 BELOW COUNTER AND ROUTE HW PIPING TO SINK.



**1** MAIN FLOOR PLUMBING PLAN  
1/8" = 1'-0"



**2** BASEMENT PLUMBING PLAN  
1/8" = 1'-0"

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XXX

Drawn by:	GLS
Checked:	AWL
Date:	10/27/18
Scale:	1/8" = 1'-0"
Reference:	
No.:	Date:
Remarks:	



MARK	FIXTURE DESCRIPTION	BRANCH PIPE SIZE - INCHES DIA.			ADDITIONAL COMPONENTS		BASIS OF DESIGN		REMARKS
		COLD WATER	HOT WATER	WASTE	VENT	FAUCET ELKAY #LCSTR46 DRAIN ELKAY #LK-89 (WITH REMOVABLE STRAINER BASKET)	MANUFACTURER	MODEL	
KS-1	SINGLE COMPARTMENT KITCHEN SINK	1/2"	1/2"	2"	1 1/2"	ELKAY	ELUP215		

SCHEDULE NOTES:  
 (1) Install a single trap primer with FD see specs for details.

WATER HEATER SCHEDULE																	
CALLOUT	TYPE	MARK	LOCATION	TYPE [1]	CAPACITY (GAL)	SERVICE CONDITIONS		RECOVERY CONDITIONS		ELECTRICAL		BASIS OF DESIGN		NOTES			
						EVIT (DEG F)	LVIT (DEG F)	WATER TEMP RISE (DEG F)	INPUT KW	NO OF STEPS	V	HZ	FLA		RATED WATER HEATER EFFICIENCY [2][3]	MANUFACTURER	MODEL
WH 1			GIFT SHOP	INS	6	50	140	7	1.4	0	120	60	1	12	98%	AO SMITH	EMT6

SCHEDULE NOTES:  
 [1] ST = STORAGE INS = INSTANTANEOUS  
 [2] IEF = ENERGY EFFICIENCY PER G.2 OF ANSI Z11.10.3. WATER HEATER IS COMPLIANT WITH TABLE C404.2 OF THE 2015 WASHINGTON STATE  
 [3] ET = THERMAL EFFICIENCY



PRELIMINARY



W.W. SEYMOUR  
 CONSERVATORY  
 REHABILITATION

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 Checked: AWL  
 Date: 10/27/18  
 Scale:  
 Reference:  
 No. Date Remarks

PLUMBING  
 SCHEDULES  
**P6.1**

GENERAL ABBREVIATIONS

ADMN	ADDITION, ADDITIONAL	MAT	MATERIAL
ADD	ADDITIVE FINISHED FLOOR	MB	MAXIMUM BRITISH THERMAL UNITS PER HOUR
APPRX	APPROXIMATELY	MECH	MECHANICAL CONTRACTOR
ARCH	ARCHITECT	MED	MEDIUM
AUX	AUXILIARY	MFG	MANUFACTURING
BAL	BALANCING	MN	MINIMUM
BLDG	BUILDING	MIN	MINIMUM MINUTE
BSSMT	BASEMENT	MISC	MISCELLANEOUS
BTU	BRITISH THERMAL UNITS PER HOUR	MTD	MOUNTED
CAP	CAPACITY	N	NORTH
CL	CENTERLINE	NA	NOT APPLICABLE
CLND	CENTRAL	NC	NORMALLY CLOSED
COND	CONDENSATE	NCR	NOT IN CONTRACT
CONN	CONNECT, CONNECTION	NOM	NOMINAL
CONST	CONSTRUCTION	NTS	NOT TO SCALE
CONT	CONTINUOUS/CONTINUATION	OC	ON CENTER
COORD	COORDINATE	OPP	OPPOSITE
DEG	DEGREE	PD	PRESSURE DROP
DIA	DIAMETER	PE	PRESSURED
DIFF	DIFFUSION	PERP	PERPENDICULAR
DISCH	DISCHARGE	PH	PHASE
DIV	DIVISION	POC	POINT OF CONNECTION
DN	DOWN	PREL	PRELIMINARY
DR	DRAIN	PROP	PROPOSAL
DWG	DRAWING	PS	PRESSURE SWITCH
EACH	EACH	PSI	POUNDS PER SQUARE INCH
EFF	EFFICIENCY	PT	PRESSURE TIGHT PHASE
ELEC	ELECTRICAL ENGINEER	QTY	QUANTITY
ELEV	ELEVATION, ELEVATOR	RA	RADIATOR
ENCL	ENCLOSURE	RAD	RADIATION
EQUIP	EQUIPMENT	REFR	REFRIGERATION
EXP	EXPANSION TANK	REQD	REQUIRED
EXP (E)	EXPANSION WATER TEMPERATURE	RFG	REFLECTOR
EXP (E)	EXISTING	RFL	REFLECTANCE
EXPL	EXPLOSION	RPM	REVOLUTIONS PER MINUTE
F	FAN/BELT	S	SOUTH
FLEX	FLEXIBLE	SCHED	SCHEDULE
FLOOR	FLOOR FINISHED BY OWNER	SECT	SECTION
FLR	FLOOR FINISHED BY OWNER, INSTALLED BY CONTRACTOR	SF	SQUARE FEET
FPC	FIRE PROTECTION, FREEZE PROTECTION	SHT	SHEET
FT	FEET, FOOT, FEET OF WATER (PRESS)	SM	SLOPE
GAGE	GAGE GAUGE	SND	SOUND
GEN	GENERAL CONTRACTOR	SPEC	SPECIFICATION
GEN	GENERAL	SQ	SQUARE
GPM	GALLONS PER MINUTE	STR	STRUCTURAL ENGINEER
GWB	GYP/SUM WALLBOARD	THRU	THROUGH
H	HEIGHT, HIGH	TEMP	TEMPERATURE DIFFERENTIAL
HOR	HORIZONTAL	TH	TEMPERATURE
HR	HOUR	THRU	THROUGH
HZ	HERTZ	TYP	TYPICAL
ID	INTERNATIONAL BUILDING CODE	UBC	UNIFORM BUILDING CODE
IFC	INTERNATIONAL FIRE CODE	UG	UNDERGROUND
IMC	INTERNATIONAL MECHANICAL CODE	UL	UNDERWRITERS LABORATORY
INCH	INCH	UTIL	UTILITY
INSUL	INSULATION	V	VOLT
INSUL	INSULATE, INSULATION	VAR	VARIABLE
KWH	KILOWATT HOUR	VEL	VELOCITY
KWHR	KILOWATT HOUR	VOL	VOLUME
L	LENGTH, LONG (DIM)	W	WATER, WIDE (DIM), WATT
LAB	LABORATORY	WT	WEIGHT
LAV	LAVATORY	WT	WEIGHT
LB	POUND	YD	YARD
LBSHR	POUNDS PER HOUR	YR	YEAR
LF	LINEAL FEET		
LG	LEAVING		
LIG	LIGHTING		
LVG	LEAVING		
LWT	LEAVING WATER TEMPERATURE		

HVAC ABBREVIATIONS

AL	ACOUSTIC LINED, ALUMINUM
AD	AUTOMATIC DAMPER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
C	COMMON
CFM	CUBIC FEET PER MINUTE
COND	CONDENSATE
CV	CONSTANT VOLUME
DDC	DIRECT DIGITAL CONTROLS
DR	DRY BULB TEMPERATURE (F)
DB	DRY BULB TEMPERATURE (F)
EAT	ENTERING AIR TEMPERATURE
EAX	EXHAUST
FPM	FEET PER MINUTE
FS	FLOW SWITCH
HC	HEATING COIL
HTG	HEATING
HWHR	HEATING WATER RETURN
HWWS	HEATING WATER SUPPLY
IMC	INTERNATIONAL MECHANICAL CODE
OAT	OUTSIDE AIR TEMPERATURE
OSA	OUTSIDE AIR
T, TSTAT	THERMOSTAT
UG	UNDERGROUND
UMC	UNIFORM MECHANICAL CODE
VSD	VARIABLE SPEED DRIVE
WG	WALL GRILLE, WATER GAGE
WSC	WET BULB TEMPERATURE (F)
WB	WET BULB TEMPERATURE (F)

GENERAL LEGEND

NORTH ARROW  
 DETAIL / DRAWING REFERENCE  
 SECTION REFERENCE  
 CONSTRUCTION NOTE  
 REVISION SYMBOL  
 BOLD LINE WEIGHT INDICATES NEW WORK  
 LIGHT LINE WEIGHT INDICATES EXISTING WORK  
 SLASHED LINE INDICATES EXISTING WORK TO BE DEMOLISHED

HVAC PIPING LEGEND

PUMP  
 ELBOW DOWN  
 ELBOW UP  
 TEE  
 TEE DN  
 TEE UP  
 ISOLATION OR SHUT-OFF VALVE (NO. TYPE AS SPECIFIED)  
 ISOLATION OR SHUT-OFF VALVE (NO. TYPE AS SPECIFIED)  
 CHECK VALVE  
 ISOLATION OR SHUT-OFF VALVE (NO. TYPE AS SPECIFIED)  
 3-VALVE CONTROL VALVE  
 PRESSURE REDUCING VALVE  
 CAP  
 REDUCER

GENERAL CONSTRUCTION NOTES

- PLANS ARE DIAGRAMMATIC AND DO NOT SHOW ALL BRANCHES, VALVES, SPECIALTIES AND
- ALL PIPING, VALVES AND EQUIPMENT ARE TO BE REMOVED IN DEMOLITION AREAS.
- VALUES INDICATED FOR SHUT-OFF ISOLATION ARE SHOWN IN APPROXIMATE LOCATIONS. REFER TO REFERENCED BLDG. DRAWINGS FOR DETAILED SYSTEMS.
- FIELD VERIFY EXACT LOCATIONS VALVES, EQUIPMENT AND PIPING TO BE REMOVED.
- CONTRACTOR TO RE-OPEN VALVES AFTER COMPLETION OF REMOVAL, CAP & CUT TO RESTORE SYSTEM OPERATION WHERE REQUIRED.
- SYSTEM SHUT DOWN REMOVAL CUT & CAP SHALL ONLY BEGAIN AFTER NEW, RE-ROUTED SYSTEM IS INSTALLED AND OPERATIONAL. ALL VALVES TO BE REMOVED SHALL BE CAPPED AND ALL SYSTEMS SHALL BE DRAINED AND DISPOSAL OF FLUIDS HANDLED AS REQUIRED PER OWNERS STANDARDS.
- MECHANICAL DRAWINGS SHOW DISCONNECT AND RECONNECT POINTS AT THE PROJECT'S BOUNDARIES. AN ATTEMPT WAS MADE TO SHOW MAJOR MECHANICAL UTILITY WORK WITHIN THE MECHANICAL WORK WITH THE PROJECT'S BOUNDARY.
- SUPPORT FRAMING INSTALLED WITHIN THE MAIN FLOOR OF THE CONSERVATORY SHALL BE CONCEALED, UNLESS OTHERWISE INDICATED OR ACCEPTED BY THE ARCHITECT.
- ROCK WALLS AND SHELVES IN THE CONSERVATORY SHALL BE CONCEALED FROM VIEW AND BELOW THE HEIGHT OF THE ROCK WALLS; CABINETS, HVAC EQUIPMENT WILL BE INSTALLED SO THAT ALL COVERS AND SHELVES MAY BE INSTALLED FLUSH WITH WALLS. COVERS SHALL NOT BE CUT OR ROUTED AROUND EQUIPMENT UNLESS SPECIFICALLY DETAILED BY THE ARCHITECT.

WASHINGTON ENERGY CODE NOTES

- PROVIDE POST CONSTRUCTION COMMISSIONING AND COMAR ETION REQUIREMENTS IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE 2015 EDITION, SECTION C408 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS. SEE SPECIFICATION SECTIONS 23 05 00, 23 08 00 AND 23 09 00 FOR FURTHER INFORMATION. THE WASHINGTON STATE ENERGY CODE 2015 EDITION, GENERALLY ACCEPTED ENGINEERING STANDARDS AND IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SEE SPECIFICATION SECTION 23 06 93 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS.
- PROVIDE CONTROLS IN ACCORDANCE WITH THE WASHINGTON STATE ENERGY CODE 2015 EDITION, SECTION 23 06 93 AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS. SEE TEMPERATURE CONTROL SPECIFICATION SECTIONS AND ALL OTHER APPLICABLE SPECIFICATION SECTIONS. ALL MECHANICAL EQUIPMENT SHALL BE LISTED AND APPROVED BY A TESTING AGENCY. THE WASHINGTON STATE ENERGY CODE 2015 EDITION PROVISIONS INCLUDING SECTION C401.3.

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HVAC LEGEND,  
 ABBREVIATIONS  
 AND GENERAL  
 NOTES

# MO.O

**CONSTRUCTION NOTES:** S H K S ARCHITECTS

- ▷ DEMO HEATING WATER BOILER, EXPANSION TANK AND ALL ASSOCIATED PIPING AND APPURTENANCES.
- ▷ DEMO BOILER EXHAUST FLE UP TO CHIMNEY STACK.
- ▷ REMOVE LINT HEATERS.
- ▷ EXISTING LOUVER TO REMAIN.
- ▷ REMOVE VERTICAL PIPING.
- ▷ RELOCATE FIN TUBES, ASSOCIATED PIPING AND VALVES BELOW ROCK WALL. SEE GENERAL NOTE 11 SHEET M2.0
- ▷ ABANDON PIPING IN PLACE AND CAP.
- ▷ EXISTING PROP FANS TO REMAIN.

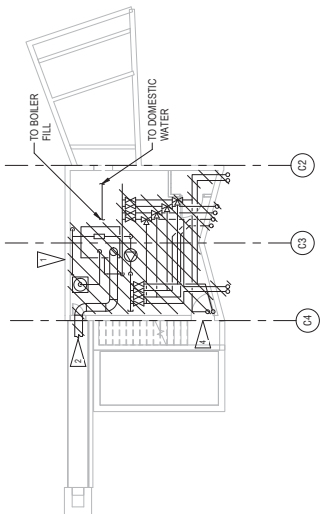


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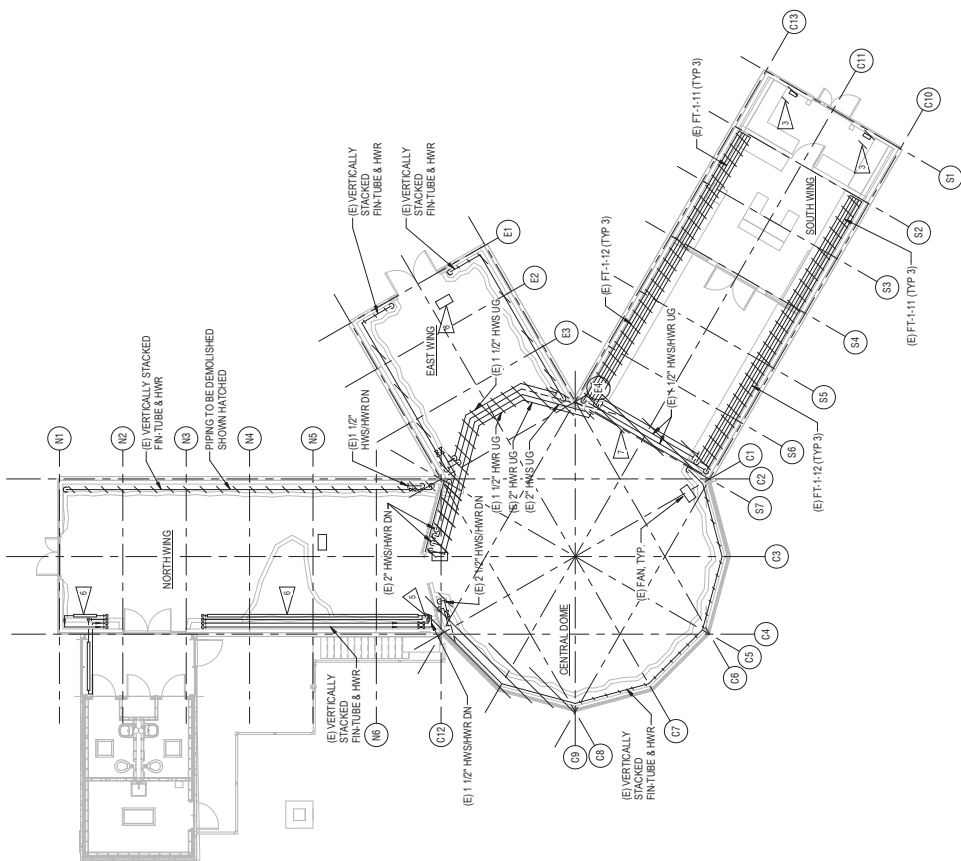
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HVAC DEMO  
PLANS  
**MD2.1**



**2 BASEMENT HVAC PLAN - DEMO**  
1/8" = 1'-0"



**1 MAIN FLOOR HVAC PLAN - DEMO**  
1/8" = 1'-0"

**CONSTRUCTION NOTES:** SHKS ARCHITECTS

- △ CONNECT TO EXISTING PIPING BELOW GRADE.
- △ PROVIDE CONTROL DAMPERS AND ACTUATORS AT LOW WALL OPENINGS. SEE ARCH FOR LOWERS.
- △ CONNECT EXISTING UNDERGROUND PEK PIPING TO HHW SUPPLY AND RETURN.
- △ PIPING TO BE ROUTED THROUGH EXISTING BELOW GRADE CONDUIT.
- △ COORDINATE VALVE LOCATIONS WITH ACCESS PANELS. TYP FOR EACH FT-1 IN GIFT SHOP AND OFFICE.
- △ ROUTE PIPING BELOW SLAB.

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**PRELIMINARY**

**METROPARKS**

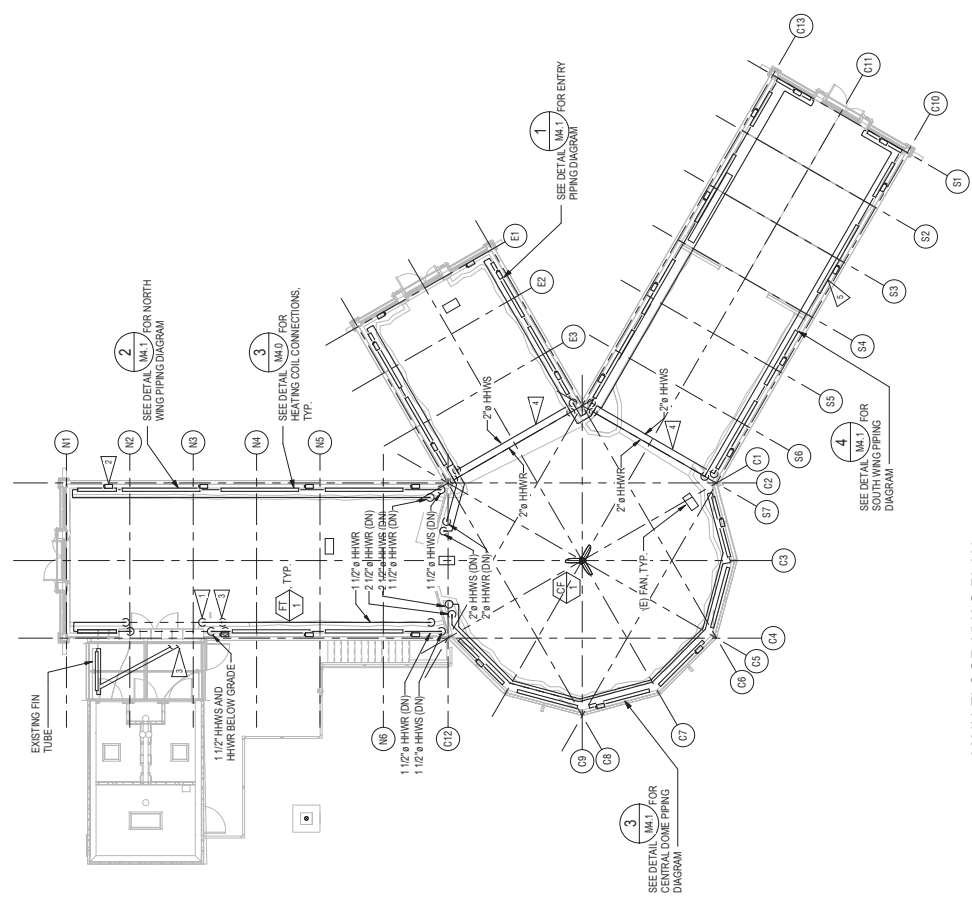
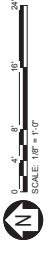
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HVAC PLAN  
**M2.1**



**1** MAIN FLOOR HVAC PLAN  
 1/8" = 1'-0"

**CONSTRUCTION NOTES:** SHKS ARCHITECTS

- △ INSTALL EXPANSION TANK ON EXISTING PAD
- △ MAINTAIN 36" MINIMUM CLEARANCE IN FRONT OF BOILER.
- △ ROUTE PIPING THROUGH EXISTING POCKET AND PENETRATIONS, TYP.

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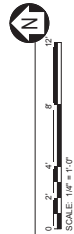
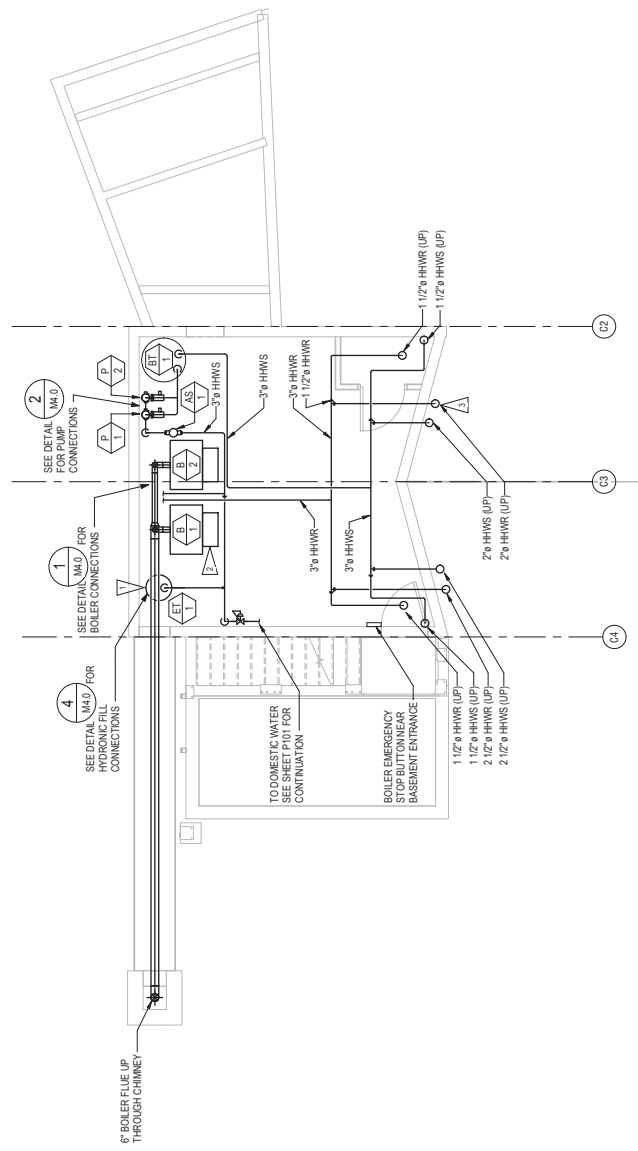


**METROPARKS**  
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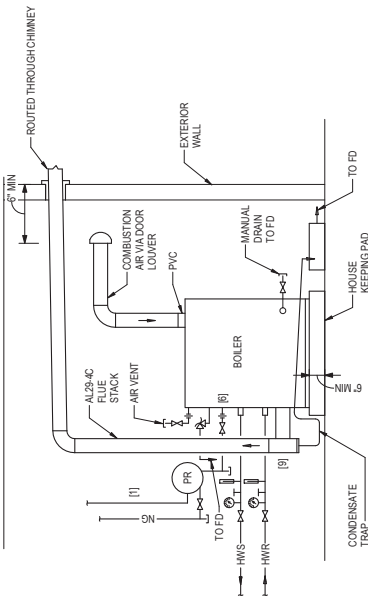
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ENLARGED  
 BASEMENT HVAC  
 PLAN  
**M2.2**

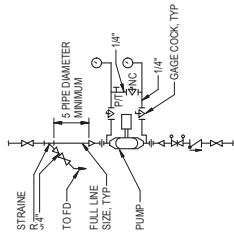


**1** BASEMENT PLAN  
 1/4" = 1'-0"



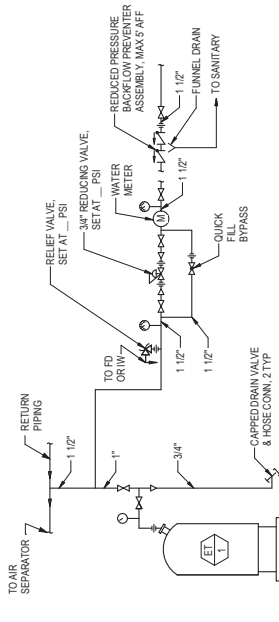
**HYDRONIC CONDENSING  
 BOILER CONNECTION  
 DETAIL**  
 NOT TO SCALE

1



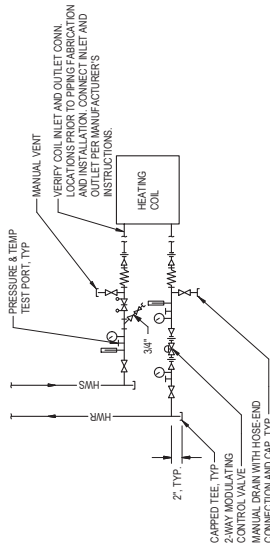
**INLINE PUMP CONNECTION  
 DETAIL**  
 NOT TO SCALE

2



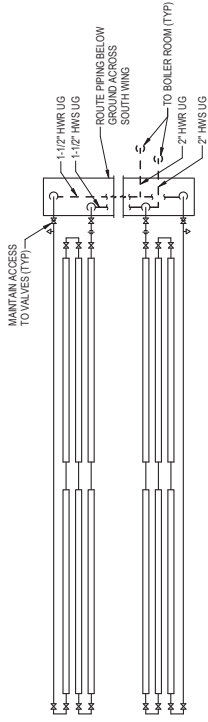
**FILL & EXPANSION TANK  
 DETAIL**  
 NOT TO SCALE

4



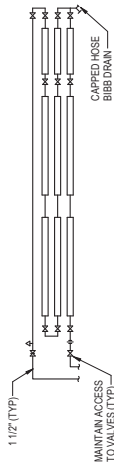
**TYPICAL HEATING COIL  
 WITH 2-WAY VALVE DETAIL**  
 NOT TO SCALE

3



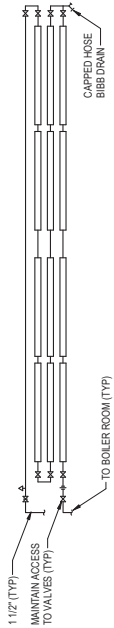
**SOUTH WING - PIPING  
 DIAGRAM - PLAN VIEW**  
 NOT TO SCALE

4



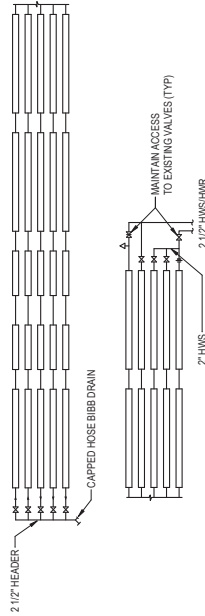
**ENTRY - PIPING DIAGRAM**  
 NOT TO SCALE

1



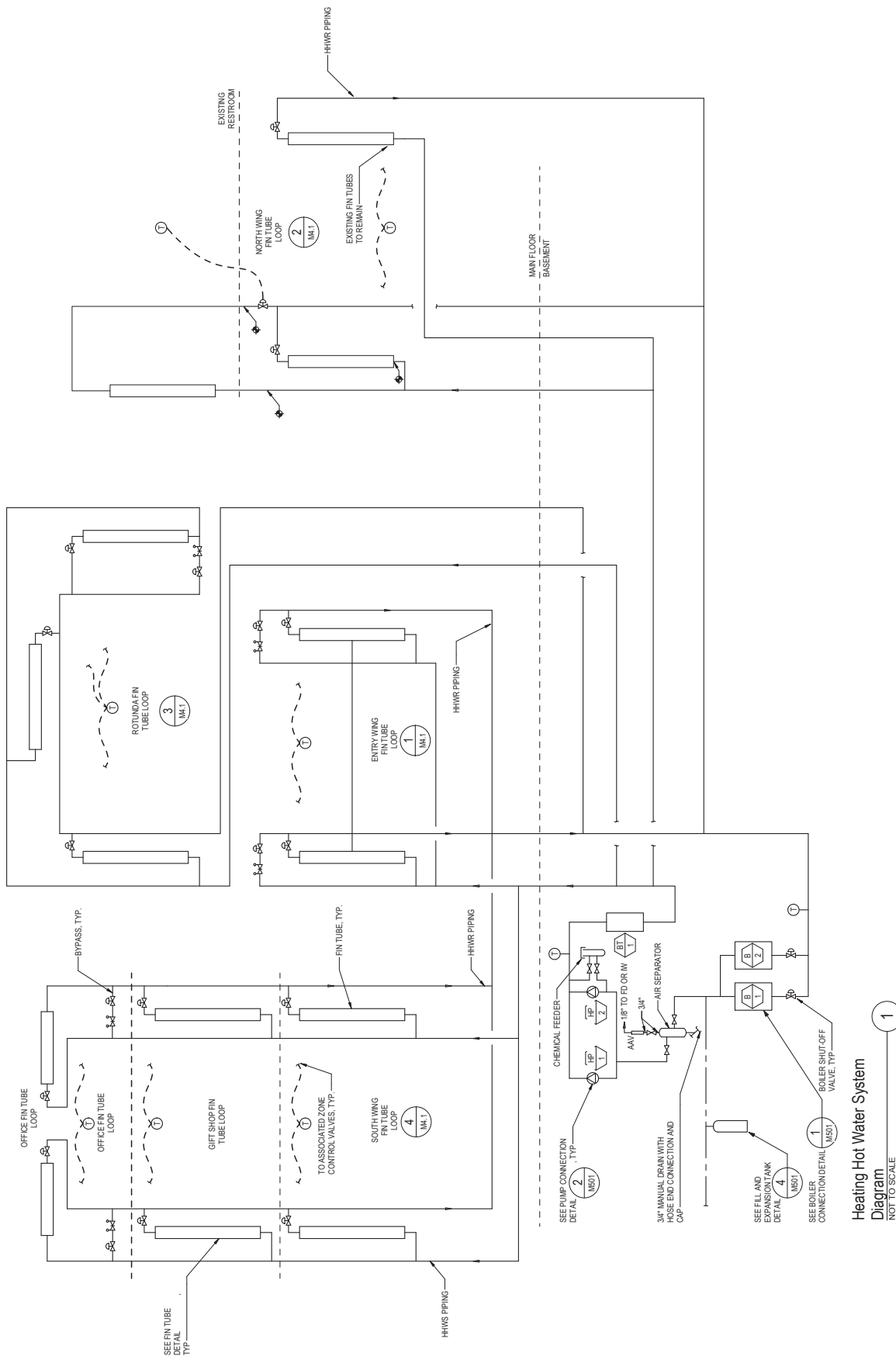
**NORTH WING - PIPING  
 DIAGRAM**  
 NOT TO SCALE

2



**ROTUNDA - PIPING  
 DIAGRAM**  
 NOT TO SCALE

3



**Heating Hot Water System  
Diagram**  
NOT TO SCALE



### HOT WATER BOILER SCHEDULE

CALLOUT		BOILER				GAS BURNER [2]				ELECTRICAL				BASIS OF DESIGN		NOTES		
TYPE	MARK	LOCATION	SYSTEM SERVED	NOMINAL AREA (A) (SQ FT)	TYPE	WATER FLOW (GPM)	MIN WATER FLOW (GPM)	WATER PD (FT)	PRESSURE RATING (PSIG)	FUEL INPUT (MBH)	MIN INLET FLOW (MVG)	OPERATING WEIGHT (LBS)	V	FLA	MANUFACTURER	MODEL		
B	1	MECH ROOM	HHW	600	FT	54	11	150	100	NAT GAS	3	1150	120	1	60	KN	6	[1] [5] [6] [7]
B	2	MECH ROOM	HHW	600	FT	54	11	150	100	NAT GAS	3	1150	120	1	60	KN	6	[1] [5] [6] [7]

**SCHEDULE NOTES:**  
 (1) WT = WATER TUBE; FT = FIRE TUBE  
 (2) MINIMUM EFFICIENCY AS SCHEDULED AND AS REQUIRED BY THE WASHINGTON STATE ENERGY CODE, COMMERCIAL PROVISIONS.  
 (3) MINIMUM EFFICIENCY AS SCHEDULED AND AS REQUIRED BY THE WASHINGTON STATE ENERGY CODE, COMMERCIAL PROVISIONS.  
 (4) NOMINAL BOILER CAPACITY INCLUDED FOR REFERENCE ONLY. DO NOT USE FOR FINAL SIZING OF EQUIPMENT.  
 (5) PROVIDE CONDENSATE NEUTRALIZATION KIT.  
 (6) MANUFACTURER TO PROVIDE BOILER EMERGENCY STOP BUTTON. SEE PLANS FOR LOCATION.  
 (7) PROVIDE MINIMUM RECOMMENDED MANUFACTURER SERVICE CLEARANCES.

### PUMP SCHEDULE

CALLOUT		PUMP				ELECTRICAL				BASIS OF DESIGN		NOTES			
TYPE	MARK	LOCATION	SERVICE	TYPE	IMPELLER DIAMETER (IN)	RPM	TOTAL HEAD (FT)	SPEED (RPM)	BHP	V	Hz	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	
P	1	MECH ROOM	HEATING HOT WATER	INLINE	6	1760	30	1760	1.11	240	60	1	TACO	1935	[1]
P	2	MECH ROOM	HEATING HOT WATER	INLINE	6	1760	30	1760	1.11	240	60	1	TACO	1935	[1]

**SCHEDULE NOTES:**  
 (1) PROVIDE WITH FACTORY MOUNTED VFD.

### EXPANSION TANK SCHEDULE

CALLOUT		DIMENSIONS				OPERATING PRESSURE RANGE (PSIG)				BASIS OF DESIGN		NOTES		
TYPE	MARK	LOCATION	VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	DIAMETER (IN)	HEIGHT (IN)	ASSUMED CW FILL TEMP (DEG F)	AMBIENT TEMP (DEG F)	EXTREME TEMP (DEG F) [1]	OPERATING TEMP (DEG F) [2]	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	
ET	1	BASEMENT	57	57	20	59	50	70	160	130	12	TACO	C0215-125	

**SCHEDULE NOTES:**  
 (1) HIGHEST TEMP FOR HEATING SYSTEMS.  
 (2) DIFFERENCE BETWEEN (CW FILL TEMP AND EXTREME TEMP) FOR HEATING SYSTEMS.

### AIR SEPARATOR SCHEDULE

CALLOUT		DIMENSIONS				OPERATING WEIGHT (LBS)		BASIS OF DESIGN		NOTES
MARK	SYSTEM SERVED	LOCATION	VOLUME (GAL)	FLOW (GPM)	SYSTEM CONN (IN)	MAX WPD (FT HD)	WEIGHT (LBS)	MANUFACTURER	MODEL	
AS-1	HEATING HOT WATER	BASEMENT	-	120	4	1.11	12" X 26" X 18"	TACO	480A4-25	

### BUFFER TANK SCHEDULE

CALLOUT		DIMENSIONS				OPERATING WEIGHT (LBS)		BASIS OF DESIGN		NOTES
TYPE	MARK	LOCATION	SYSTEM SERVED	VOLUME (GAL)	DIAMETER (IN)	HEIGHT (IN)	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL	
BT	1	MECH ROOM	HHW	150	30	68	510	TACO	BT1075004-725H4	[2]

**SCHEDULE NOTES:**  
 (1) INDICATES WEIGHT OF UNFILLED TANK.  
 (2) PROVIDE WITH 1" SILICON BLANKET.

### FIN TUBE ASSEMBLY SCHEDULE

CALLOUT		WATER CAPACITY (BTU/HFT)				BASIS OF DESIGN				NOTES
TYPE	MARK	LOCATION	SYSTEM SERVED	TEMPERATURE (F)	VELOCITY (FPS)	STERLING	MODEL	MANUFACTURER	MODEL	
FT	1	CONSERVATORY	HHW	180	3	STERLING	C144			

**SCHEDULE NOTES:**  
 (1) BARE ELEMENT CAPACITY FOR A SINGLE ROW/ELEMENT. SEE DETAILS FOR NUMBER OF ROWS.

### CEILING FAN SCHEDULE

CALLOUT		ELECTRICAL				BASIS OF DESIGN		NOTES	
TYPE	MARK	LOCATION	DIAMETER (IN)	POWER INPUT (WATTS)	V	Hz	MANUFACTURER	MODEL	
CF	1	ROTUNDA	52	26.6	120	1	BIG-BIG FANS	HAKU	

**SCHEDULE NOTES:**  
 (1) PROVIDE ALUMINUM FINISH  
 (2) PROVIDE UNIVERSAL INCOINT AND XX EXTENSION TUBE



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**TELECOM**

- ▲ OUTLET (WALL MOUNTED)
  - ▼ OUTLET (FLOOR, FLUSH MOUNTED)
  - OUTLET (CEILING MOUNTED)
  - WIRELESS ACCESS POINT
- TELECOM OUTLET TYPES**
- INDICATES QUANTITY OF DATA JACKS. PULLSTRING ALWAYS PROVIDED. WHERE NO QUANTITY IS NOTED, 2 DATA JACKS AND PULLSTRING.
- ▲ 1 MOUNTED 3" ABOVE COUNTER BACKSPLASH
  - ▼ AC BLANK FACEPLATE (ROUGH-IN ONLY)
  - ▼ B

**CIRCUITS**

- RACEWAY CONCEALED IN CEILING OR WALL. HATCH MARKS INDICATE NUMBER OF INCHES. #12 AWG WIRE UNLESS OTHERWISE NOTED. EXPOSED RACEWAY IS ALLOWED ONLY WHERE NOTED.
  - RACEWAY UP
  - RACEWAY DOWN
  - RACEWAY SUB-OUT WITH BISHOP
  - CIRCUIT CONTINUATION
  - HOME RUN TO PANEL OR LOCATION NOTED
  - JUNCTION BOX
  - PULL BOX
- PANELBOARDS**
- 120/240V SYSTEM PANELBOARD

**RECEPTACLES**

- SINGLE RECEPTACLE 120V
- DOUBLE DUPLEX RECEPTACLE 120V
- DOUBLE DUPLEX RECEPTACLE 150V (1) GROUNDING VIA ROOM OCCUPANCY SENSORS TO BE GRAY AND MARKED "UNCONTROLLED"
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR BOX
- DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED
- DOUBLE DUPLEX RECEPTACLE, CEILING MOUNTED
- MULTI-OUTLET ASSEMBLY (DEVICES AS INDICATED)

**WORK DEFINITION**

- ▲ FLAG NOTE
- ▲ REVISION IDENTIFICATION
- ▲ EQUIPMENT IDENTIFICATION
- ▲ DETAIL IDENTIFICATION
- ▲ PROJECT NORTH REFERENCE
- ▲ NEW WORK
- EXISTING
- FUTURE
- REMOVE EXISTING ELECTRICAL EQUIPMENT

**GENERAL NOTES**

1. CODE 'X' WITH THE NATIONAL ELECTRICAL CODE AS ADAPTED AND AMENDED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
2. THE LOCATIONS OF ELECTRICAL DEVICES OR LIGHTING FIXTURES INDICATED ON ARCHITECTURAL PLANS ELEVATIONS OR SECTIONS TAKE PRECEDENCE OVER LOCATIONS INDICATED ON THE ELECTRICAL DRAWINGS.
3. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LIGHTING FIXTURE LOCATIONS.
4. FOR LIGHTING CONTROLS WHICH INCLUDE DAYLIGHT OR OCCUPANT SENSING AUTOMATIC CONTROLS, LIGHTING CONTROLS SHALL BE TESTED TO ENSURE THAT CONTROLS SENSORS, COMPONENTS, AND AUTOMATIC SHUT-OFF CONTROLS, OCCUPANCY SENSORS, OR AUTOMATIC TIME SWITCHES THE PROJECT PLANS AND SPECIFICATIONS. SEQUENCE OF OPERATION SHALL ALSO BE FUNCTIONALLY TESTED TO ENSURE IT IS OPERATING IN ACCORDANCE WITH PROJECT PLANS AND SPECIFICATIONS. A DETAILED REPORT OF TEST PROCEDURES AND RESULTS SHALL BE PREPARED AND FILED WITH THE OWNER.

**TELECOM - MISCELLANEOUS**

- ▲ BUNDLED CABLE SUPPORT, J-HOOK SYSTEM
- TELECOMMUNICATIONS GROUNDING BAR

**ELECTRONIC SECURITY**

- ACCESS CONTROL PANEL
- CARD READER
- DOOR CONTACT SWITCH
- ELECTRIC LOCK
- ELECTRIC STRIKE
- KEYPAD
- MOTION DETECTOR (WALL MOUNTED)
- MOTION DETECTOR (CEILING MOUNTED)
- REQUEST TO EXIT DETECTOR

**RECEPTACLE TYPES**

- ▲ MOUNTED 3" ABOVE COUNTER BACKSPLASH
- INDICATED CIRCUIT
- GROUND FAULT CIRCUIT INTERRUPTER COVER
- GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER PROOF COVER

**LIGHTING SWITCHES AND CONTROLS**

- LOWER-GASE LETTER NEAR SWITCH DENOTES CIRCUIT CONTROLLED (TYP)
- SINGLE POLE SWITCH
- 3-WAY SWITCH
- OCCUPANCY SENSOR SWITCH
- SWITCH WITH PILOT LIGHT
- DIMMER SWITCH
- CONTROL STATION, # INDICATES STATION IDENTIFICATION
- EMERGENCY LIGHTING CONTROL UNIT
- CEILING MOUNTED OCCUPANCY SENSOR
- PHOTOCELL CONTROL

**FIRE ALARM**

- FIREFIGHTER TELEPHONE OUTLET
- HEAT DETECTOR
- SMOKE DETECTOR
- SMOKE DETECTOR (DUCT MOUNTED)
- STROBE LIGHT (WALL MOUNTED)
- HORN AND STROBE LIGHT (CEILING MOUNTED)
- HORN AND STROBE LIGHT (WALL MOUNTED)
- MANUAL STATION (WALL MOUNTED)
- HORN (CEILING, FLUSH MOUNTED)
- CONTROL PANEL
- REMOTE ANNUNCIATOR
- SPRINKLER FLOW SWITCH CONNECTION
- MONITOR MODULE
- MONITOR POINT
- POST INDICATOR VALVE
- SPRINKLER PRESSURE SWITCH CONNECTION
- SPRINKLER TAMPER SWITCH
- SPRINKLER VALVE POSITION MONITOR CONNECTION

**EQUIPMENT**

- EQUIPMENT CABINET
- EQUIPMENT CONNECTION
- GROUND BAR, LENGTH TO SCALE
- MOTOR CONNECTION, SINGLE PHASE
- MOTOR CONNECTION, 3 PHASE
- SURGE PROTECTIVE DEVICE

**OUTLET MOUNTING HEIGHTS**

- 18 INCHES (460 mm) VERTICALLY MOUNTED
- 43 INCHES (1095 mm) VERTICALLY MOUNTED
- 72 INCHES (1830 mm) TO TOP OF PANELBOARD IF BOX < 68 INCHES (1730 mm) HIGH, OTHERWISE PER NEC 404.6
- 43 INCHES (1095 mm)
- 43 INCHES (1095 mm)
- 43 INCHES (1095 mm)
- TOP EDGE NOT LESS THAN 90 INCHES (2290 mm) AFF AND NOT MORE THAN 6 INCHES (153 mm) BELOW CEILING. 6 INCHES (153 mm) BELOW CEILING WHEN CEILING HEIGHT DOES NOT ALLOW BOTH DIMENSIONS.
- BOTTOM EDGE NOT LESS THAN 80 INCHES (2035 mm) AFF AND TOP EDGE NOT GREATER THAN 96 INCHES (2449 mm) AFF.
- 72 INCHES (1830 mm) TO TOP OF PANEL

**SCOPE OF WORK**

CONSIST OF FOUNDATION AND UPGRADE OF THE EXISTING GENERATOR BUILDING WITH REPLACEMENT OF EXISTING LIGHTING, LIGHTING CONTROL, POWER CONNECTIONS TO MECHANICAL, CONVENIENCE POWER, OFFICE AND GIFT SHOP POWER AND DATA, ACCESS CONTROL AND CODE REQUIRED EGRESS LIGHTING.



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No.: \_\_\_\_\_  
Revised: \_\_\_\_\_  
Remarks: \_\_\_\_\_

SYMBOLS AND ABBREVIATIONS

E0.0

**GENERAL NOTES**

1. NOTIFY LIGHTING TO BE ADDED FROM OTHER EXISTING PANELS. PING & NOTIFY EAST LIGHTING. SHALL BE SET FROM ABOUT 20' IN AIR.
2. EXISTING PANEL P.T. REPLACE EXISTING CABLE WITH NEW IN RACE.
3. ALL NEW BRANCH CIRCUITS TO BE INSTALLED IN RACE.
4. ALL NEW BRANCH CIRCUITS TO BE INSTALLED IN RACE.

**GENERAL NOTE 1.1A**

Panel	Load	Watt	VA	Current (Amps)	Notes
1	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	

**GENERAL NOTE 1.4**

Panel	Load	Watt	VA	Current (Amps)	Notes
1	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	

**GENERAL NOTE 1.4A**

Panel	Load	Watt	VA	Current (Amps)	Notes
1	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	

**GENERAL NOTE 1.4**

Panel	Load	Watt	VA	Current (Amps)	Notes
1	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	

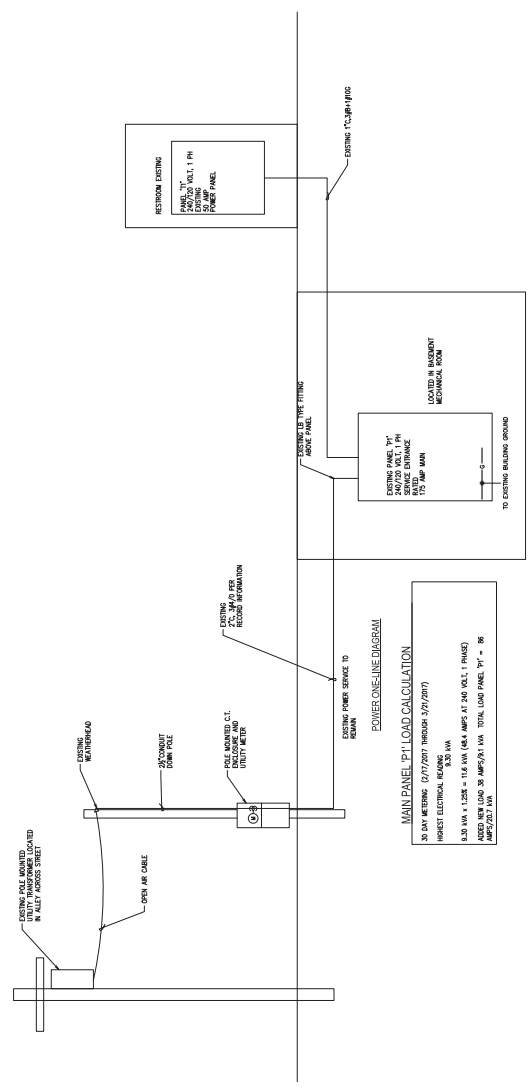
**GENERAL NOTE 1.4A**

Panel	Load	Watt	VA	Current (Amps)	Notes
1	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	

**EXISTING POWER PANEL**

EXISTING RECORD INFORMATION DOES NOT SHOW CORRECT CIRCUITING OF WIRING. FIELD VERIFY CONTINGENT POWER SHUT DOWN WITH OWNER. AT LEAST 24 HOURS NOTICE TO BE PROVIDED IN WRITING OFF PANEL. DOWN TO BE PERFORMED IN EVENING OFF HOURS.

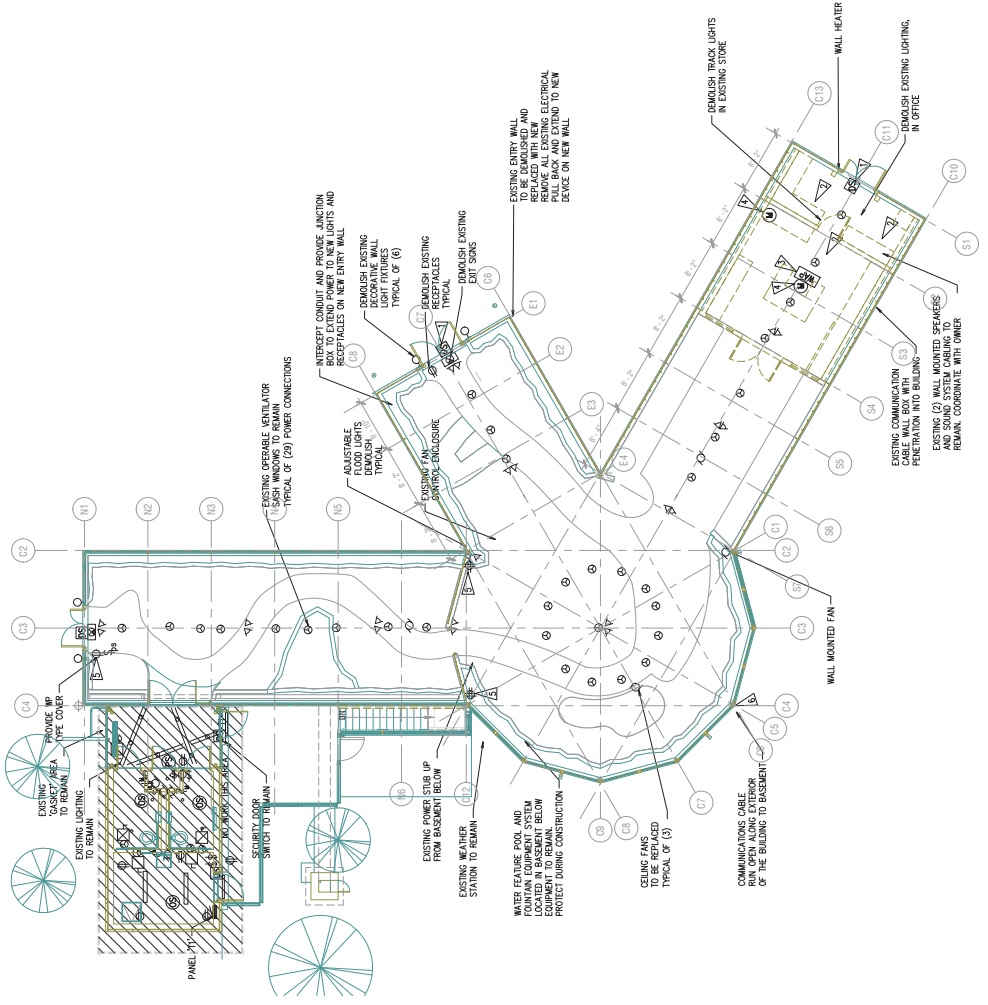
**EXISTING POWER PANEL PT - NEW ADDITIONAL CIRCUITS DETAILS**



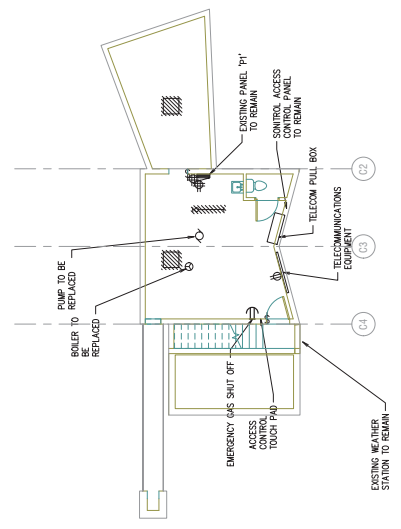
**EXISTING SINGLE LINE DIAGRAM (FOR REFERENCE ONLY)**

Drawn by:	01	Remarks
Checked:	02	
File:	03	
Date:	04	
Scale:	05	
Project:	06	
No.:	07	
Date:	08	

- SHEET FLAG NOTES.**
- 1-1 DEMO EXISTING ACCESS CONTROL, MAGNETIC DOOR STRIKE TO BE REMOVED, CABLE PULLED BACK AND RE-INSTALLED ON NEW DOOR.
  - 1-2 DEMO EXISTING POWER AND DATA TO BE REMOVED FROM CASEWORK, AND ARCHITECTURAL DRAWINGS FOR NEW CASEWORK PLANS AND DETAILS.
  - 1-3 DEMO EXISTING WAP TO REMAIN. PROTECT DEVICE AND CABELING DURING CONSTRUCTION.
  - 1-4 DEMO EXISTING ACCESS CONTROL SYSTEM MOTION SENSOR TO REMAIN. PROTECT DURING CONSTRUCTION.
  - 1-5 DEMO EXISTING RECEPTACLE TO BE REPLACED WITH GFI TYPE.
  - 1-6 DEMO EXISTING AND PROTECT THE EXISTING COMMUNICATION CABLE DURING CONSTRUCTION. AFTER COMPLETION, CABLE SHALL BE RE-INSTALLED AND SECURED TO THE EXTERIOR OF BUILDING.

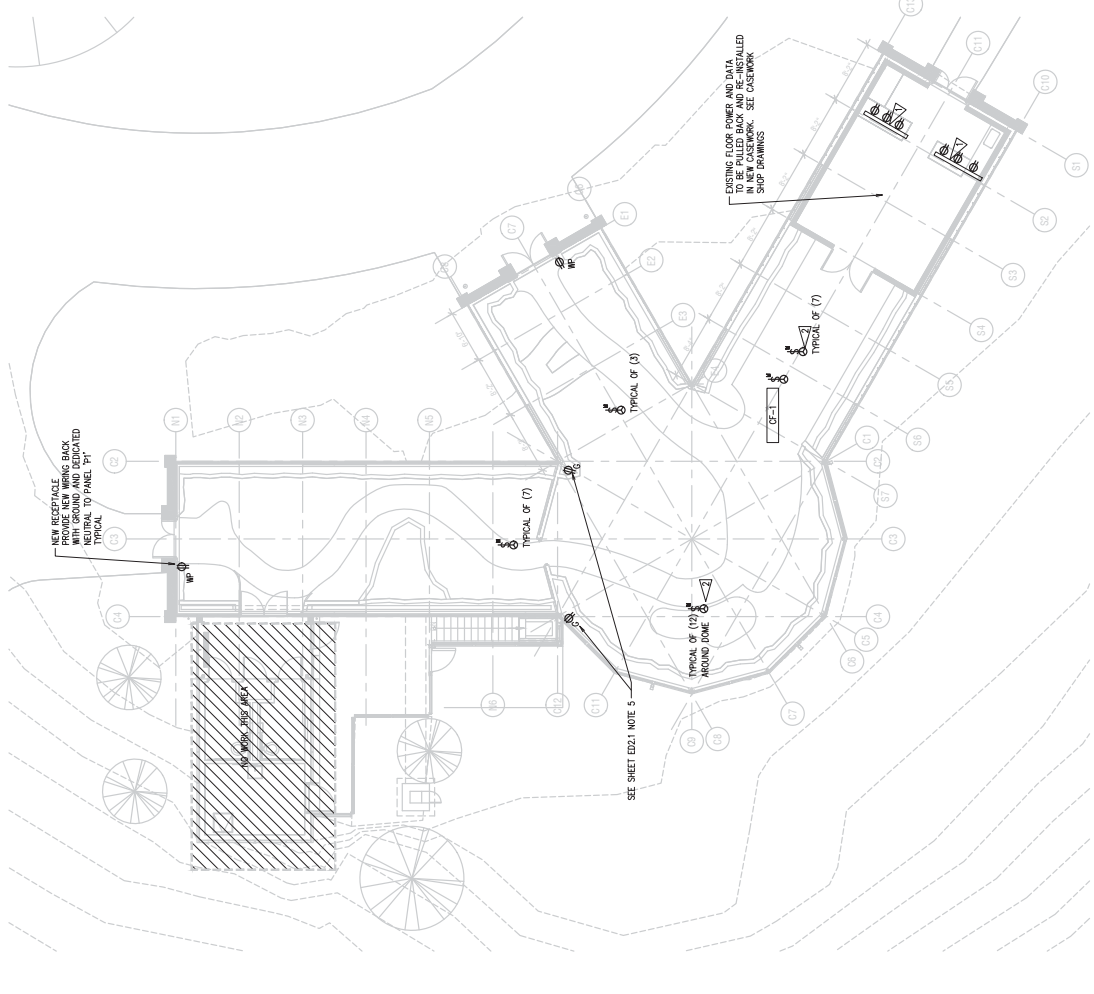


1 FLOOR PLAN  
 1/8" = 1'-0"



2 BASEMENT PLAN  
 1/8" = 1'-0"





1 FLOOR PLAN  
1/8" = 1'-0"



COURT	DESCRIPTION	TRF	VA.	AMPS	VOLTS	P	PANEL	CIRCUIT	WIRE	LOCATION
B1	BOILER	...	624	3.2	120	1	81	3/0"	201214125	MCHT ROOM/MEASUREMENT
B2	BOILER	...	2702	4.6	120	1	81	3/0"	201214125	MCHT ROOM/MEASUREMENT
B3	BOILER	...	2702	4.6	120	1	81	3/0"	201214125	MCHT ROOM/MEASUREMENT
P1	PUMP	...	1500	3.2	120	1	81	3/0"	201214125	MCHT ROOM/MEASUREMENT
P2	PUMP	...	1500	3.2	120	1	81	3/0"	201214125	MCHT ROOM/MEASUREMENT
REAR	REAR MAIN	...	1500	3.2	120	1	81	3/0"	201214125	MCHT ROOM/MEASUREMENT

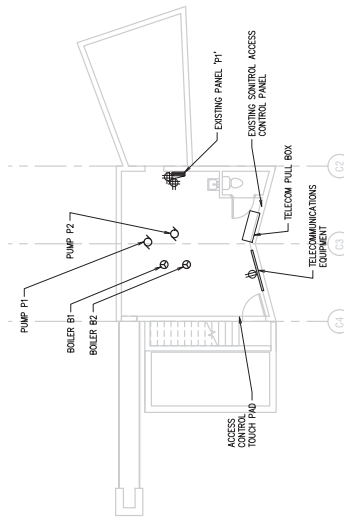
**MECHANICAL EQUIPMENT SCHEDULE - WW SEYMOUR RESTROOM ADDITION**

**GENERAL SHEET NOTES:**

- COORDINATE REWIRE LOCATIONS PER ARCHITECTURAL PLANS AND ELECTRICAL SYMBOLS.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL VOLT CIRCUITS. PROVIDE DEGRADED NEUTRALS FOR ALL VOLT CIRCUITS.
- ALL RECEPTACLES WITHIN 6 FEET OF A SINK OR SHOWER SHALL BE GFCI UNLESS THERE IS A PHYSICAL BARRIER BETWEEN THE WATER SOURCE AND RECEPTACLE.
- LOCATE DATA OUTLET BOXES WITHIN 2 FEET OF POWER RECEPTACLES. IN EXISTING CONSERVATORY CONICAL RAZEWAYS WHEN POSSIBLE. PROVIDE NEW CONICAL RAZEWAYS FOR NEW RECEPTACLES WITH OTHER SYSTEM. PROVIDE ROUTING PLAN TO DESIGN TEAM FOR REVIEW PRIOR TO INSTALLATION. NOTE: MEET ENVIRONMENT INSTALLATION.
- SEE MECHANICAL EQUIPMENT SCHEDULE SHEET P&I.

**SHEET FLAG NOTES:**

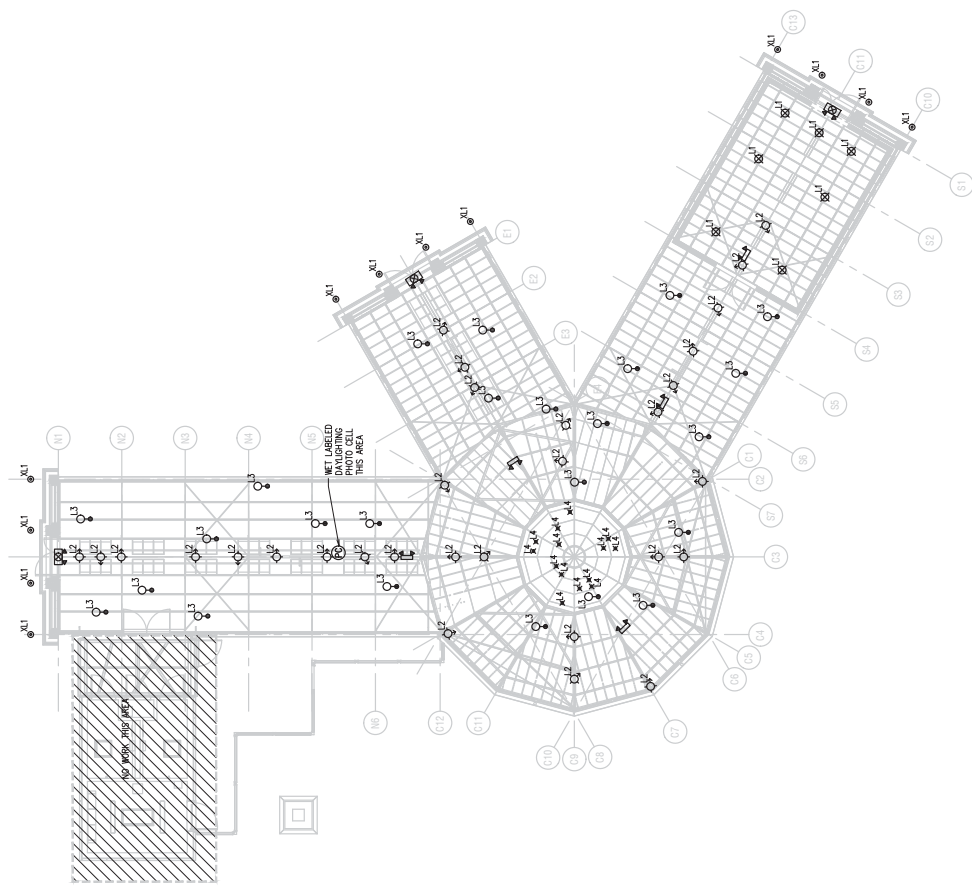
- PROVIDE TWO COMPARTMENT NON METALLIC SURFACE MOUNTED REZEWAY. REWELD TO EXISTING REZEWAY. PROVIDE NEW REZEWAY FOR LOW VOLTAGE CABLING. FINISH COLOR AS SELECTED BY ARCHITECT.
- OPERABLE VENTILATOR SASH WINDOW CIRCUIT TO EXISTING PANEL 'P1'. RELOCATE EXISTING CONTROLLERS TO NEW CENTRAL LOCATION. INTERCEPT AND EXTEND CONTROL WIRE. RELOCATE CONTROLLER WITH ARCHITECT.
- EXISTING FC-2 TO REMAIN. DEMOLISH EXISTING POWER CIRCUIT AND PROVIDE NEW POWER CIRCUIT AS SHOWN.



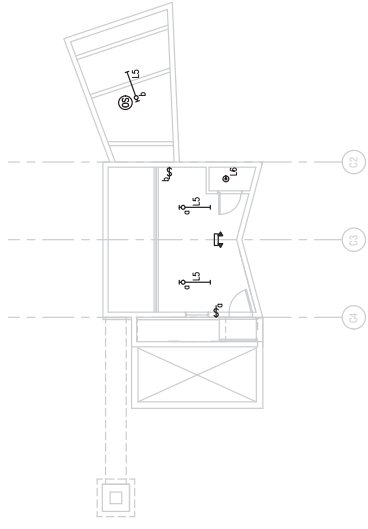
2 BASEMENT PLAN  
1/8" = 1'-0"



1 FLOOR PLAN  
1/8" = 1'-0"



2 BASEMENT PLAN  
1/8" = 1'-0"



TYPE	DESCRIPTION	MANUFACTURER	MODEL	QUANTITY	WARRANTY	LOCATION
L1	RECESSED SQUARE DOWNLIGHT WITH DIMMING CAPABILITY. 4" DIA. 1" DEPTH. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING.	OSRAM	ARL1500	150	5 YEAR	STAIRWELL
L2	RECESSED SQUARE DOWNLIGHT WITH DIMMING CAPABILITY. 4" DIA. 1" DEPTH. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING.	OSRAM	ARL1500	150	5 YEAR	STAIRWELL
L3	RECESSED SQUARE DOWNLIGHT WITH DIMMING CAPABILITY. 4" DIA. 1" DEPTH. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING.	OSRAM	ARL1500	150	5 YEAR	STAIRWELL
L4	RECESSED SQUARE DOWNLIGHT WITH DIMMING CAPABILITY. 4" DIA. 1" DEPTH. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING.	OSRAM	ARL1500	150	5 YEAR	STAIRWELL
L5	RECESSED SQUARE DOWNLIGHT WITH DIMMING CAPABILITY. 4" DIA. 1" DEPTH. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING.	OSRAM	ARL1500	150	5 YEAR	STAIRWELL

RECESSED SQUARE DOWNLIGHTS WITH DIMMING CAPABILITY. 4" DIA. 1" DEPTH. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING. 1500 LUMENS. 120V. 15W. 1500K. 0-10V DIMMING.



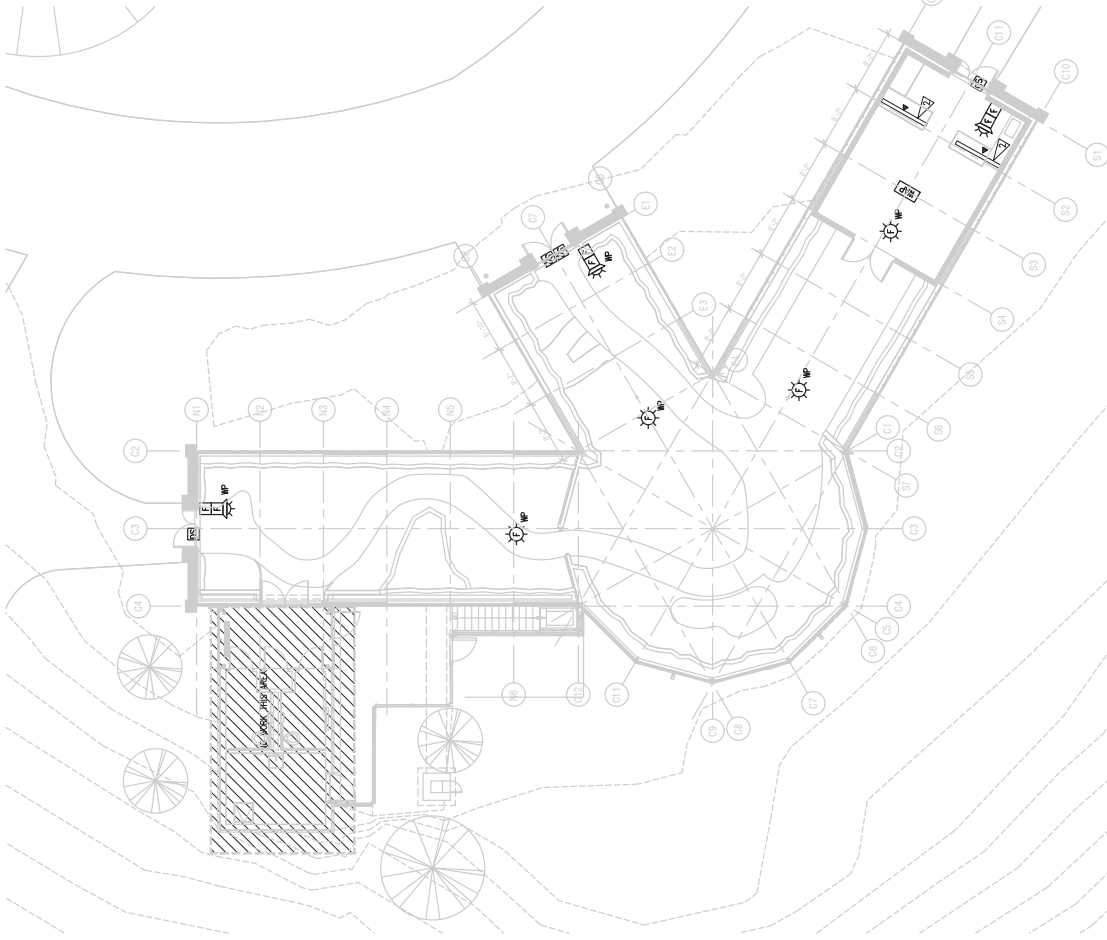
W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
316 S. 637, TACOMA, WA 98405

Drawn by:	01
Checked:	02
DATE:	03/08/20
SCALE:	AS SHOWN
PROJECT NO.:	18-0000
DATE:	03/08/20
REVISIONS:	



LIGHTING FLOOR PLANS  
E2.1.2



1 FLOOR PLAN  
1/8" = 1'-0"

2 BASEMENT PLAN  
1/8" = 1'-0"

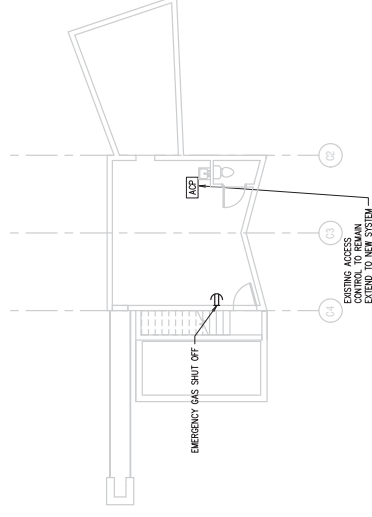


**GENERAL SHEET NOTES:**

1. COORDINATE DEVICE LOCATIONS PER ARCHITECTURAL PLANS AND ELEVATIONS. SEE CASEWORK SHOP DRAWINGS.
2. LOCATE DATA OUTLET BOXES WITH IN 2 FEET OF POWER RECEPTACLES.
3. ALL DEVICES AND RACKS IN CONSERVATOR AREA TO BE SURFACE MOUNTED. COORDINATE WITH NEW LIGHTING, POWER, MECHANICAL AND STRUCTURAL DRAWINGS.
4. ALL FIRE ALARM DEVICES IN THE CONSERVATOR AREA TO BE WEATHER PROOF TYPE.

**SHEET FLAG NOTES:**

- ▷ COORDINATE DEVICE LOCATIONS AND ROUTING WITH CASEWORK SHOP DRAWINGS.
- ◁ TWO COMPARTMENT SURFACE MOUNTED RACKWAY. SEE SHEET E2.1.1.



1 FLOOR PLAN  
1/8" = 1'-0"

2 BASEMENT PLAN  
1/8" = 1'-0"



W.W. SEYMOUR  
CONSERVATORY  
REHABILITATION

60% CD  
316 S. 9377 TACOMA, WA 98405

Drawn by:	01	Revision:	
Checked:	02	Date:	
DATE:	03.08.20	SCALE:	
PROJECT:		NO.:	
DATE:		REVISIONS:	

SYSTEMS  
FLOOR PLANS  
**E2.1.3**





# DRAFT UPDATE

1/22/2020

## Design Guidelines for the Wedge Neighborhood and North Slope Historic Special Review Districts



*Adopted by the Landmarks Preservation Commission pursuant to Tacoma Municipal Code 13.07 for design review within the Wedge Neighborhood Historic District, Wedge Conservation District, and the North Slope Historic District.*

Updated December 2016



Tacoma Landmarks Preservation Commission  
Planning and Development Services  
City of Tacoma  
747 Market Street  
253-591-5220  
[www.cityoftacoma.org/historicpreservation](http://www.cityoftacoma.org/historicpreservation)

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# SECTION I: ABOUT GUIDELINES AND DESIGN REVIEW

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These guidelines are intended to provide information to homeowners and the Landmarks Preservation Commission about the intent and purpose of the North Slope and Wedge Neighborhood Historic Districts, as well as guidance for the review and evaluation of proposed alterations to historic properties within these districts. The historic character of these neighborhoods is embodied in their homes, streetscapes, and development patterns.

## Basis for these Guidelines

These design guidelines are based on the US Secretary of the Interior's Standards and Guidelines for the Treatment of Historic Properties, and specifically on the Standards for Rehabilitation of Historic Properties. In certain cases, local conditions or community objectives are reflected in some of the interpretations of the Secretary's Standards.

The Landmarks Preservation Commission is required to adopt and maintain these guidelines pursuant to Chapter 13.07 of the Tacoma Municipal Code.

## What is Design Review?

Design review is an approval process that certain projects involving historic properties must complete before permits are issued and work is started. The Landmarks Preservation Commission reviews projects for historic compatibility at its regular public meetings, and if the work meets the standards for historic treatment, issues a certificate of approval.

## Which Projects Require Design Review?

If your house is located within the boundaries of a historic district, then changes to the exterior of your property may require design review by the Historic Preservation Officer and the Landmarks Preservation Commission if permits are required. This includes changes to windows, siding, additions, chimneys, porches and decks.

Your project will require Landmarks Preservation Commission review, if:

- ...It is a new construction project or demolition; or
- ...It involves a contributing historic structure, AND
- ...It involves exterior work, AND
- ...It requires a building permit.

Projects are exempt from Landmarks Commission review, if:

- ...The project involves a non-contributing structure, but does not involve demolition; or
- ...The project does not require a permit; or
- ...The project does not involve any exterior work; or
- ...The project involves plumbing, sewer, electrical, or landscaping work.

## What is the Process?

Proposed changes to historic properties within the Wedge Neighborhood and North Slope Historic Districts must be transmitted to the Landmarks Preservation Commission using an Application for Design Review, which are available on [www.cityoftacoma.org/historicpreservation](http://www.cityoftacoma.org/historicpreservation) in the Design Review section.

Applications should include scale plans, details, specifications, photographs, and a narrative description, as appropriate.

The Landmarks Preservation Commission reviews applications during their regular meetings, every second and fourth Wednesday of the month.

## Tacoma's Residential Historic Districts

The City of Tacoma has two residential historic districts.

### North Slope Historic District

The North Slope Historic District, shown in the map to the right, was created by the City of Tacoma in 1994 at the request of property owners within the district, and was expanded in 1996 and 1999 in response to citizen request. The district contains historically significant homes constructed between 1881 and 1955.

The district contains over 900 homes, making it one of the largest residential historic districts in the Western United States.

The North Slope Historic District is listed on the National, state and Tacoma Registers of Historic Places. The boundaries and buildings inventory differ slightly between the different historic registers. These design guidelines and the design review process apply to the locally designated, or Tacoma Register, historic district.



The nomination and other information for the North Slope Historic District can be found here:

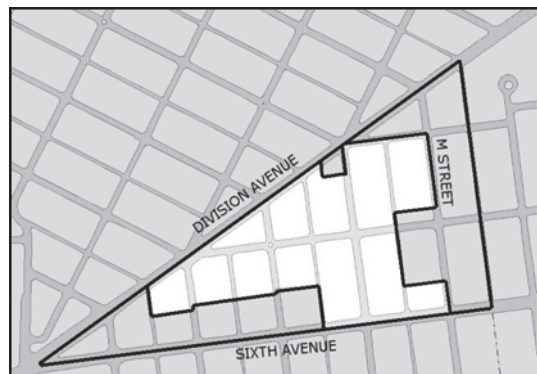
[www.cityoftacoma.org/HistoricDistricts](http://www.cityoftacoma.org/HistoricDistricts)

### Wedge Neighborhood Historic and Conservation Districts

The Wedge Neighborhood Historic and Conservation Districts were created by City Council in 2011 at the request of the neighborhood residents, after three years of research and effort.

The Wedge Historic District is an intact middle-class residential district reflecting a period of neighborhood development from Tacoma's early history until after WWI. The Historic District is buffered by the Conservation District; design review requirements for projects within the Conservation District are generally less than those within the core historic district.

The white area on the map shown at left contains the Wedge Neighborhood Historic District, which includes approximately 70 homes. The shaded areas in the triangle show the Conservation District.







The nomination and other information for the Wedge Neighborhood Historic District can be found here:

[www.cityoftacoma.org/HistoricDistricts](http://www.cityoftacoma.org/HistoricDistricts)

## SECTION II: PRESERVATION AND SUSTAINABILITY

---

Historic Preservation is consistent with sustainable development goals. From waste stream reduction, to reduced consumption, to local sourcing, historic preservation makes sense for those who are interested in living a “green” lifestyle. Why?

-  Preservation encourages the reuse of existing materials.  
The greenest building is one that is already built. Historically, homes in the residential historic districts were handcrafted using skilled labor, and local materials. This craftsmanship was built to last, and the materials used in the construction were of top quality and are difficult to obtain now. Continuing to use these buildings and conducting proper maintenance extends the lifecycle of the original material investment, reduces environmental impacts that result from new construction and new materials, and reduces waste and waste stream impact from unnecessary demolition and replacement.
-  Preservation encourages recycling and salvage of materials.  
In many cases, lifestyle needs necessitate the remodeling of a residence or the removal/replacement of historic materials and elements. In those cases, reusing the removed materials (for instance, storing windows that have been removed onsite for later use or stockpiling historic fir siding) or ensuring that items removed are salvaged for use by others is important.
-  Preservation employs a lifecycle approach to decision making.  
All newly manufactured items, such as doors and windows, have a lifecycle cost. When upgrading a home for environmental reasons, it is important to consider the true impact of things like replacement windows—does the improvement in thermal efficiency over the service life of a new window offset the environmental impacts of manufacturing that window, the monetary expense of purchasing and installing the new window, and disposing of the original window?
-  Preservation is local-business friendly.  
Historic rehabilitation, maintenance and repair makes use of traditional carpentry skills and trades. Investing in an historic house and repairing and maintaining historic elements tends to invest less in materials and more in labor; replacement tends to invest more in materials and less in labor. Therefore, money invested in trades tends to have a higher local economic impact—more dollars stay in Tacoma, and less go to a corporate headquarters a thousand miles away.



## SECTION III: GUIDELINES FOR THE ALTERATION OF EXISTING BUILDINGS

---

Tacoma's historic districts contribute to the social, cultural, and economic welfare of its residents by preserving the character of its early residential neighborhoods, contributing to civic pride by developing an awareness of Tacoma's heritage and sense of place, and by encouraging capital investment in and rehabilitation of historic structures through the use of incentives and design review. The historic features contained in contributing buildings and structures in the historic districts should be maintained and preserved, and new structures should be designed to be visually and aesthetically compatible with the historic character of the districts.

### General Preservation Principles

1. **Maintain architectural integrity**, as it relates to scale, proportion, texture, color, compatible materials, space, and composition in various periods of architecture, in contributing properties.
2. **Retain original materials**. The historic materials present on historic buildings should be retained wherever feasible.
3. **Repair before replacement**. Historic materials should be maintained and repaired when needed, including maintaining proper weather protection. Where repair is needed, it is desirable to remove as small an amount of material as possible.
4. **Replacement in kind**. If replacement of a historic feature or material is unavoidable, they should be replaced in kind with a visual and material match whenever possible.
5. **Houses change through time**. Changes to a home, such as early additions within the historic period of the house, may be historic in themselves. In addition, historic homes are often updated to reflect modern use. Alterations should respect historic additions, as well as strive to balance modern convenience with historical appropriateness.
6. **Guidelines should be applied reasonably**. When applying the guidelines, the Commission will be considerate of clearly documented cases of economic hardship. Application of these guidelines is not intended to deprive a property owner of reasonable use of their property.



## WINDOWS

Windows are a character defining feature of a historic home, reflecting both the time period of construction, the materials and craftsmanship of an era, and the architectural style of a building.

Maintaining historic integrity of the primary facades enhances and preserves the historic district. Every effort should be made to maintain existing historic windows or their visual equivalents on primary elevations within original openings, and to maintain a historic appearance on secondary elevations.

Windows are composed of individual elements, including the stiles and rails that make up the sash, muntins, joinery, window stops and casing, and each fulfills a functional role reflecting the window's historic design. Preserving both the materials and craftsmanship, and the appearance, scale and visual relationship between these components, is an objective of the historic district.

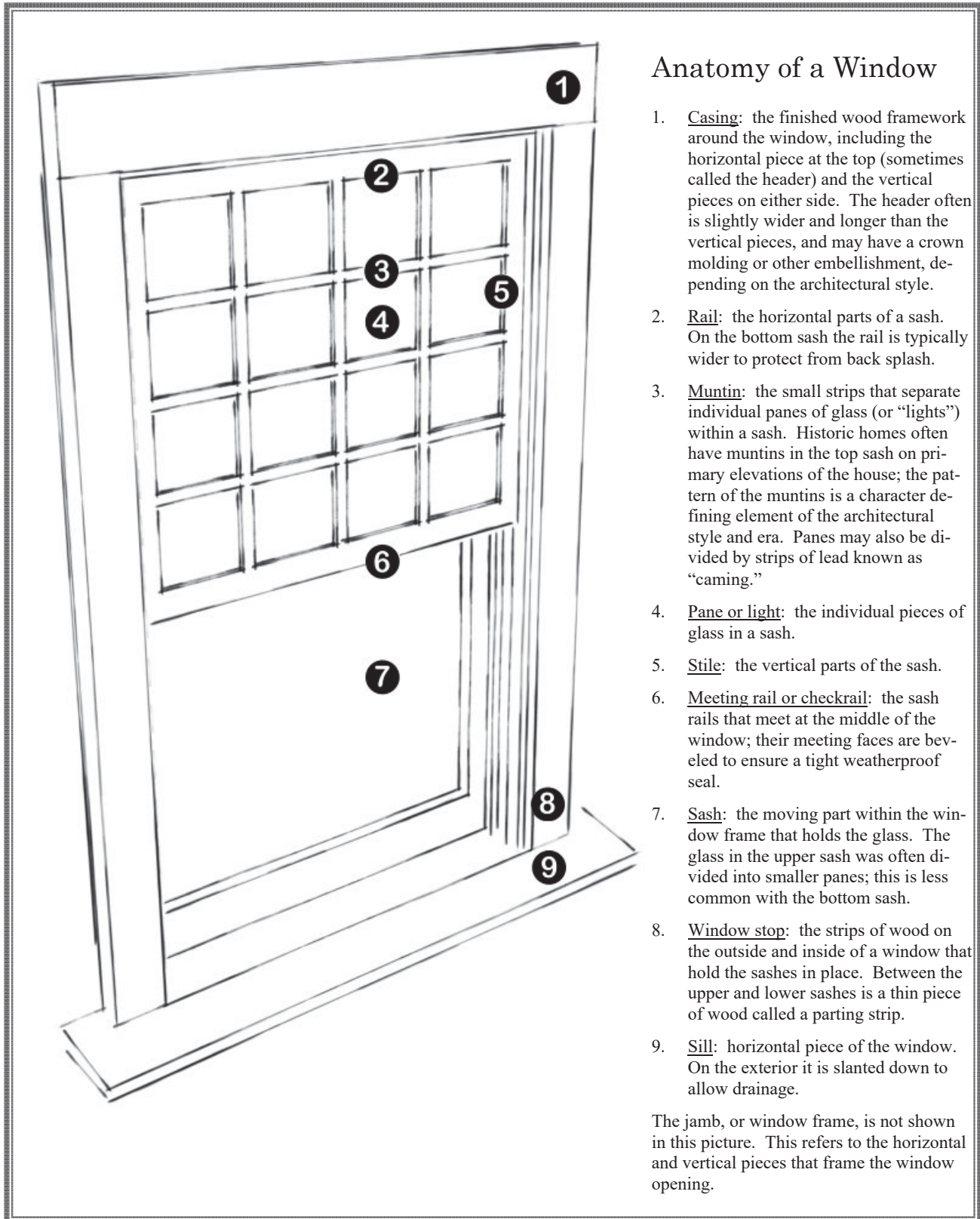
### Guidelines for Windows

1. **Preserve Existing Historic Windows.** Existing historic windows in good working order should be maintained on historic homes in the district. The existing wood windows exhibit craftsmanship and carpentry methods in use at the time that the neighborhood was developed. New manufactured windows, even those made of wood, generally do not exhibit these characteristics.

*(continued on page 10)*







## Anatomy of a Window

1. **Casing:** the finished wood framework around the window, including the horizontal piece at the top (sometimes called the header) and the vertical pieces on either side. The header often is slightly wider and longer than the vertical pieces, and may have a crown molding or other embellishment, depending on the architectural style.
2. **Rail:** the horizontal parts of a sash. On the bottom sash the rail is typically wider to protect from back splash.
3. **Muntin:** the small strips that separate individual panes of glass (or “lights”) within a sash. Historic homes often have muntins in the top sash on primary elevations of the house; the pattern of the muntins is a character defining element of the architectural style and era. Panes may also be divided by strips of lead known as “caming.”
4. **Pane or light:** the individual pieces of glass in a sash.
5. **Stile:** the vertical parts of the sash.
6. **Meeting rail or checkrail:** the sash rails that meet at the middle of the window; their meeting faces are beveled to ensure a tight weatherproof seal.
7. **Sash:** the moving part within the window frame that holds the glass. The glass in the upper sash was often divided into smaller panes; this is less common with the bottom sash.
8. **Window stop:** the strips of wood on the outside and inside of a window that hold the sashes in place. Between the upper and lower sashes is a thin piece of wood called a parting strip.
9. **Sill:** horizontal piece of the window. On the exterior it is slanted down to allow drainage.

The jamb, or window frame, is not shown in this picture. This refers to the horizontal and vertical pieces that frame the window opening.

(WINDOWS *continued from previous page*)

2. **Repair Original Windows Where Possible.** Original wood windows that are in disrepair should be repaired if feasible. The feasibility of different approaches depends on the conditions, estimated cost, and total project scope. Examples of substandard conditions that do not necessarily warrant replacement include: failed glazing compound, broken glass panes, windows painted shut, deteriorated paint surface (interior or exterior) and loose joinery. These conditions alone do not justify window replacement

Repair of loose or cracked glazing, loose joinery or stuck sashes may be suitable for a carpenter or handyperson. Significant rot, deterioration, or reconstruction of failed joints may require the services of a window restoration company. If information is needed regarding vendors that provide these services, please contact the Historic Preservation Office.

2. **Replace windows with a close visual and material match.** When repairing original windows is not feasible, replacement may be considered.
  - Where replacement is desired, the new windows should match the old windows in design and other details, and, where possible, materials.
  - Certain window products, such as composite clad windows, closely replicate original appearance and therefore may be appropriate. This should be demonstrated to the Commission with material samples and product specification sheets.
  - Changing the configuration, style or pattern of original windows is not encouraged, generally (for example, adding a highly styled divided light window where none existed before, or adding an architecturally incompatible pattern, such as a Prairie style gridded window to a English Cottage house).
  - Vinyl windows are not an acceptable replacement for existing historic windows.

Depending on specific project needs, replacement windows may include:

- Sash replacement kits. These utilize the existing window frame (opening) and trim, but replace the existing sashes and substitute a vinyl or plastic track for the rope and pulley system. Sash replacement kits require that the existing window opening be plumb and square to work properly, but unlike insert windows, do not reduce the size of the glazed area of the window or require shimming and additional trim.

*(continued on next page)*

(WINDOWS *continued from previous page*)

- An insert window is a fully contained window system (frame and sashes) that is “inserted” into an existing opening. Because insert windows must accommodate a new window frame within the existing opening, the sashes and glazed area of an insert window will be slightly smaller than the original window sashes. Additional trim must be added to cover the seams between the insert frame and the original window. However, for window openings that are no longer plumb, the insert frame allows the new sashes to operate smoothly.
4. **Non-historic existing windows do not require “upgrading.”**  
Sometimes the original windows were replaced prior to the formation of the historic district, and now must be replaced again. Although it is highly encouraged, there is no requirement to “upgrade” a non-historic window to a historically appropriate wood window. For example, a vinyl replacement window may be an acceptable replacement for a nonhistoric aluminum horizontal slider window, especially if the historic configuration (vertically operated sash) is restored.
5. **New Window Openings/Changing Window Openings**
- Enlargement or changes to the configurations of existing window openings is to be avoided on the primary elevation(s) of a historic building within the district. In specific cases, such as an egress requirement, this may not be avoidable, but steps should be taken to minimize the visual impact
  - Changes to window configurations on secondary (side and rear) elevations in order to accommodate interior remodeling are not discouraged, provided that character defining elements, such as a projecting bay window in the dining room, are not affected. A typical example of this type of change might be to reconfigure a kitchen window on the side of a home to accommodate base cabinets.
  - In general, openings on buildings in the historic district are vertically oriented and are aligned along the same height as the headers and transoms of other windows and doors, and may engage the fascia or belly band that runs above the window course. This pattern should be maintained for new windows.
  - Window size and orientation is a function of architectural style and construction technique. Scale, placement, symmetry or asymmetry, contribute to and reflect the historic and architectural character of a building.

(*continued on next page*)

(WINDOWS *continued from previous page*)

6. **Sustainability and thermal retrofitting.**

- a. Window replacement is often the least cost effective way to improve thermal efficiency. Insulation of walls, sealing of gaps and insulation of switch plates, lights, and windows, as well as upgrades to the heating system all have a higher return on investment and are consistent with preservation of the character of a historic home.
- b. Properly maintained and weather stripped historic windows generally will improve comfort by reducing drafts.
- c. The energy invested in the manufacture of a new window and the cost of its purchase and installation may not be offset by the gains in thermal efficiency for 40 to 80 years, whereas unnecessary removal and disposal of a 100 year old window wastes old growth fir and contributes to the waste stream.
- d. If thermal retrofitting is proposed as a rationale for window replacement, the owner should also furnish information that shows:
  - The above systematic steps have been taken to improve the performance of the whole house.
  - That the original windows, properly weather stripped and with a storm window added, is not a feasible solution to improve thermal efficiency.
  - Minimal retrofit, such as replacing only the sash or glass with thermal paned glass, is not possible.
  - Steps to be taken to salvage the historic windows either on site or to an appropriate architectural salvage company.



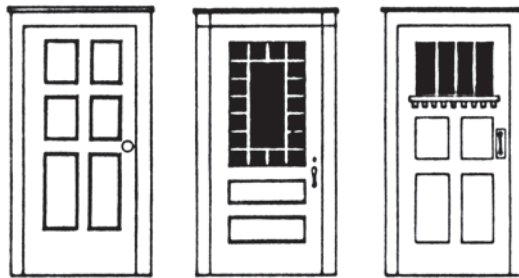
*Above: Storm windows, held in place with a simple metal clip (still available at some hardware stores), maintenance of glazing compound and weatherstripping were the traditional way of improving thermal performance of windows. This is still a cost effective method in the Pacific Northwest climate.*

## DOORS

Historic entry doors commonly include sidelights, and occasionally a transom. They tend to be paneled and/or contain glazed openings in the upper portion. Doors were constructed of wood, with stile and rail construction, or in some cases, solid wood clad with a wood veneer. The style of a door often reflects the architectural style and/or construction period of the home.

### Guidelines for Doors

1. **Avoid enlarging or moving an original entry opening**, unless you can provide documentary evidence to demonstrate that the proposal is consistent with typical designs for houses of the time period, or that the change will restore a previously altered condition.
2. **Retain historic entry doors whenever feasible**. Replacement doors should, where possible, match the original door in design and other details, and materials. In many cases, for security or cost reasons, a non-custom door in alternative materials may be proposed; in these cases, the door should appear to be wood (painted fiberglass doors molded with panel indents may be acceptable; faux wood finishes tend to be inappropriate) and should be compatible with the architecture of the house (Craftsman doors should not be proposed for Victorian era houses, for example).
3. **Avoid faux treatments**. Faux wood textures, frosted glass, and gold or silver caming (lead work in stained glass) is not appropriate for use in the historic district.
4. **Avoid nonhistoric configurations**. Double entry doors were not common in the historic district, and are discouraged unless it can be demonstrated that this was an original feature to the building.

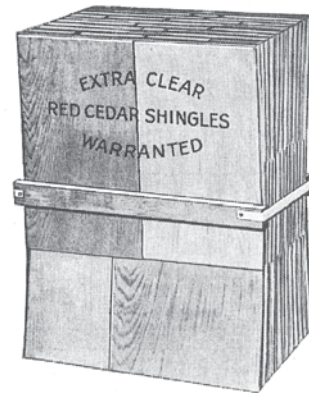


## HISTORIC SIDING AND EXTERIORS

Traditional materials used for exterior cladding in the district include horizontal wood siding (including various types and dimensions of drop siding and bevel siding), wood shingles and shakes, and, to a lesser extent, brick, stucco and half timbering, and stone.

### Guidelines for Exterior Siding and Materials

1. **Avoid removal of large amounts of original siding.**
2. **Repair small areas of failure before replacing all siding.** It is rarely advisable to replace all of the existing siding on a home, both for conservation reasons and for cost reasons. Where there are areas of siding failure, it is most appropriate to spot repair as needed with small amounts of matching material. Where extensive damage, including rot or other failure, has occurred, siding should be replaced with as close a material and **visual match** as is feasible, including matching reveals, widths, configuration, patterns and detailing.
3. **Other materials/configurations.** It is not historically appropriate to replace deteriorated siding with substitute materials, unless it can be demonstrated that:
  - the replacement material is a close visual match to the historic material and can be installed in a manner in which the historically character defining details may be reproduced (mitered corners, dentil molding, etc); and
  - replacement of the existing historic material is necessary, or the original material is no longer present; and
  - there is no feasible alternative to using a substitute material due to cost or availability.
4. **Avoid changing the appearance, pattern or configuration of original siding.** The siding type, configuration, reveal, and shingle pattern all are important elements of a home's historic character.



(HISTORIC SIDING AND EXTERIORS *continued from previous page*)

5. **Maintenance of historic masonry.** The mortar in historic masonry should be maintained in good repair to prevent mortar failure. Tuck pointing, or replacement and repair of mortar, does not require approval by the Landmarks Preservation Commission. However, the following is recommended to maintain historic masonry:
- Match new mortar with old in color, consistency and hardness. Modern mortars are much harder than historic mortars, which contained a higher proportion of lime and less cement. If a mortar is too hard, it may result in damage to bricks (such as spalling).
  - Avoid saw cutting to remove old mortar (or do so very carefully, to avoid damage to bricks).
  - Repair mortar before bricks can be shifted by hand.
  - Do not paint historic unpainted bricks. It is extremely difficult to remove paint from bricks, and certain types of paint can trap moisture and cause problems such as frost wedging (when trapped water expands as it freezes).
  - To clean or remove paint from masonry, use gentle means. Sandblasting is never recommended, as it can destroy the hard outer surface of bricks, allowing moisture to penetrate.
  - For more information, see the National Park Service's Preservation Brief #2, [Repointing Mortar Joints in Historic Masonry Buildings](#), available free of charge on the internet.



## PORCHES

The front porch of an historic house is an important feature, providing a threshold to the interior as well as a viewing platform onto the street. It is thus a critical character defining element not just for the house, but for the district as well.

Porches are generally raised a foot or more above grade and are composed of decorative and functional elements that reflect the architectural type and time period of the home. These may include roof shape, entablature, columns, piers, railings, decking, and steps.



## Guidelines for Porches

1. **Retain existing porches and porch details.** The original design elements of existing historic porches, when present, should be maintained. Major changes to configuration or ornamentation should be avoided. Missing or deteriorated details, such as columns and railings, should be repaired or replaced in kind.
2. **Avoid adding architecturally inappropriate details.** Items such as porch columns reflect the architecture of the home. Tapered columns atop piers are emblematic of Craftsman homes, but are not appropriate on Victorian era houses. Likewise, scrollwork, turned posts, or gingerbread are not appropriate on a Craftsman home. Replacement elements that have no historic design relationship with the architecture diminish the historic character of the building.
3. **Replace missing porches with designs and details that reflect the original design, if known. Avoid adding conjectural elements.** Photographic or other documentary evidence should guide the design of replacement porches. Where this is unavailable, a new design should be based on existing original porches from houses of similar type and age.
4. **In certain cases, building code may trump preservation guidelines.** For example, historic railing height may be considered a life safety issue, and new railings are generally required to meet building code. In these cases, innovative approaches may be needed to retain the appropriate scale and appearance.



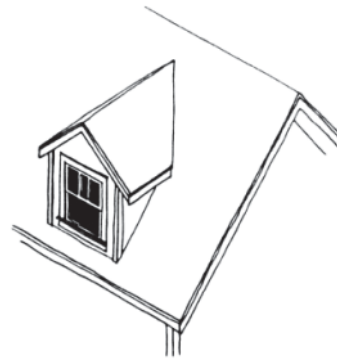
## ROOFS AND ROOF SHAPES

The roof form is fundamental to the overall form and historic character of a home. A roof may be described in terms of its plan and configuration, pitch, elements such as dormers or parapets, and material. Most historic roofs in the district were pitched (including gabled and hipped) and designed to be clad in wood shingles.

### Guidelines for Roofs

1. **Preserve and retain existing roof form and appearance.**

Major changes to the overall roof plan/type are discouraged. For example, changing a hipped roof to a gabled roof is generally inappropriate.



2. **Roof Additions should be sensitively located.**

Additions that affect roof appearance may include the addition of elements such as dormers, skylights and chimneys. Additions are not discouraged, but should seek to minimize the visual impact to the overall roof form, as follows:

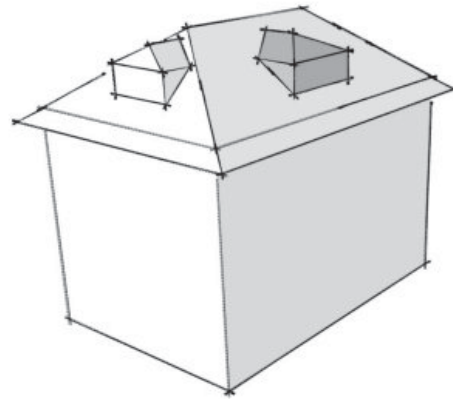
- Changes to the roof form should be located to the rear and less visible sides of a home.
- In certain cases, it may not be possible to conceal new elements such as additional dormers from view. In such cases, using examples of historic additions (location, scale, design, materials) to guide new design is appropriate.
- Roof mounted solar equipment should be located in a manner that reduces its visual impact to the extent practicable. Solar installations should not obscure character-defining architectural features, and installations on the primary facade are discouraged. To be appropriate for the historic district, solar installations should balance performance with architectural compatibility.

3. **Existing roof heights should be maintained.** Changes to the primary ridgeline height of a house are generally discouraged, such as “bump ups,” with the exception that: in certain cases it may be demonstrated that an overall ridgeline height increase will dramatically increase useful attic space in a house WITHOUT significantly changing the appearance of the home from the street (rare).

(continued on next page)

(ROOFS *continued from previous page*)

3. **Materials and colors.** Composition roofs are an acceptable substitute for shingles, and have been in use on homes since the early 20<sup>th</sup> century. Composite and engineered materials that mimic the visual qualities of shingles vary widely in quality and appearance. If an engineered material is proposed that is not common in the district, material samples and product specification sheets should be furnished to the Commission. Metal roofs are not acceptable for historic homes. Clay tile roofs are appropriate only on the few examples of Mission or Spanish influenced architecture seen in the districts.



*Above: Example of a rooftop addition that is visible and in scale.*

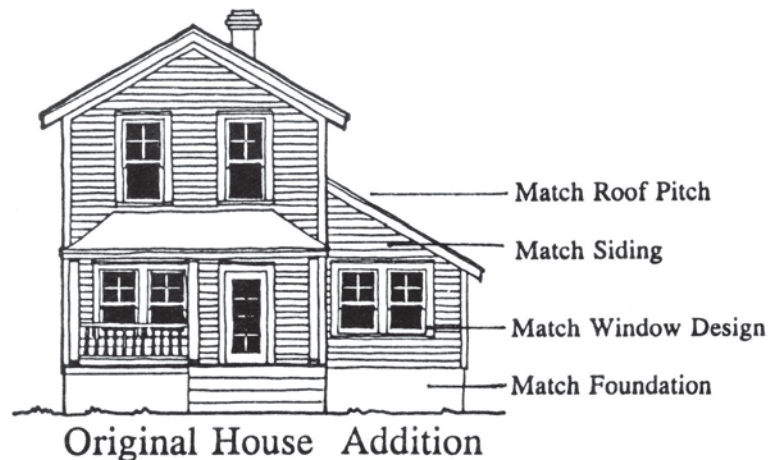
*\* Please note that a residential roof installation involving a single layer composition roof and sheathing may not require a building permit, and therefore, does not require design review. Other roof types may require permits and Landmarks Preservation Commission review. Homeowners and contractors should contact Plannig and Development Services at 253-591-5030 for more information.*

## ADDITIONS

Additions to existing homes in the historic districts are not discouraged. Historically, additions to homes were common, either as optional add-ons to stock plans, or later phases that followed a typical pattern.

### Guidelines for Additions

1. **Architectural style should be compatible** with the era and style of the principal structure, including massing, window patterning, scale of individual elements, cladding, roof form, and exterior materials.
2. **Additions should be removable** in the future without harming the character defining elements on the principal structure.
3. **Additions should be sensitively located** in a manner that minimizes visibility from primary rights of way. Where this is not possible, the design should respect the style, scale, massing, rhythm, and materials of the original building.
4. **An addition should be subservient** in size, scale and location to the principal structure.
5. **Seamless additions are discouraged**. There should be a clear visual break between the old structure and the new, such as a reduced size or footprint or a break in the wall plane, to avoid creating a falsely historic appearance (such that the original, historic portion of the house can be distinguished from the new, nonhistoric addition).

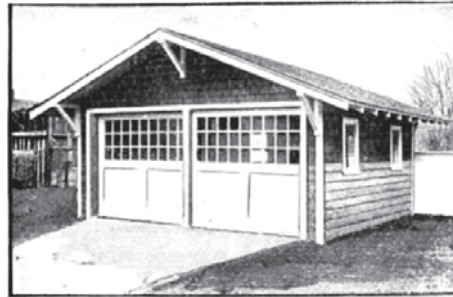


## ACCESSORY STRUCTURES, GARAGES AND PARKING

Some early houses provided space for storing various means of transportation, from carriages to automobiles; however, these structures were traditionally separate from the main building and were nearly always entered from the alley rather than from the street.

### Guidelines for Parking and Garages

1. **Alley accessed parking is the typical and predominant residential parking configuration in the district.** Residential driveways and garages facing the street are typically only appropriate when there is no alley access, or other site constraints prevent alley accessed parking (such as a corner lot).



2. **Minimize views of parking, accessory structures and garages from the public right-of-way.** Parking areas and garages should be set toward the rear of the lot to minimize visibility from primary rights of way. Parking lots and banks of garage doors along the front facade of a building do not conform to the character of the neighborhood. Where it is not possible to locate a parking structure to conceal it from view, it should be set well back from the front plane of the primary structure on the property. New accessory structures should be clearly subservient to the primary structure on the lot. Off-street parking lots have no historic precedent in the residential areas of the neighborhoods and should be located behind the building and away from the street.
3. **Attached garages and carports are inappropriate.**
4. **New curb cuts are discouraged.** Residential driveways requiring curb cuts from a street or arterial are generally prohibited, unless the applicant can demonstrate by clear and convincing evidence that because of special circumstances not applicable to other property or facilities, including size, shape, design, topography, location, or surroundings, the strict application of this standard prevents alley-accessed parking. If approved, such curb cuts and approaches shall be consistent with the standards approved for the historic districts and on file in the Public Works Department.
5. **New accessory structures and garages should utilize a similar material palette and configuration to historic structures or to the primary structure on the lot.** New accessory structures should meet the guidelines for new construction exterior materials, windows and roof form and shape. Garages and accessory structures should orient vehicle doors to the alley when possible and maintain a simple roof plan.
6. **Conversion of accessory structures.** Accessory structures that are converted to residential use should retain the exterior visual characteristics of the accessory structure, including door and window configuration, cladding materials, and form. Added features, such as porches, exterior staircases, and new window or door openings, should be located to be minimally visible from public rights of way.

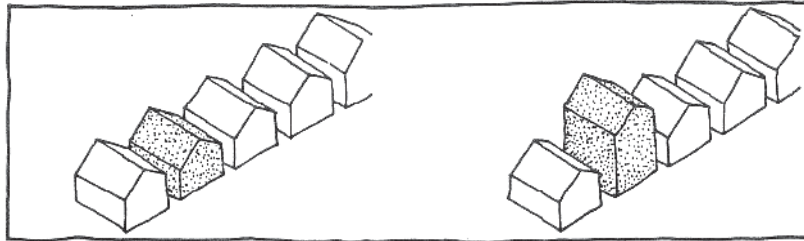
## SECTION IV: GUIDELINES FOR NEW CONSTRUCTION

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### HEIGHT

**Goal:** Balance the overall height of new construction with that of nearby structures.

**Guideline:** New buildings should be comparable in height to adjacent structures. Buildings that are substantially taller or shorter than the adjacent historic buildings should be avoided.



*Above: Example shows compatible height on the left, and incompatible height on the right.*

### SCALE

**Goal:** Relate the size and proportions of new buildings and their architectural elements to those of the neighborhood.

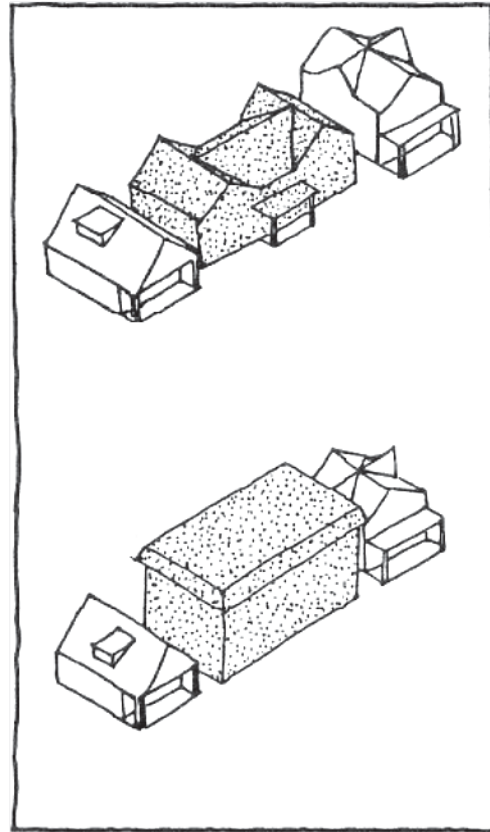
**Guideline:** Building facades should be of a scale compatible with surrounding buildings and maintain a comparable setback from the property line to adjacent buildings, as permitted by applicable zoning regulations.



## MASSING

**Goal:** Break up the facades of buildings into smaller varied masses comparable to those contributing buildings in the residential historic districts.

**Guideline:** Variety of forms is a distinguishing characteristic of the North Slope and Wedge residential communities. Smaller massing—the arrangement of facade details, such as projections and recesses—and porches all help to articulate the exterior of the structure and help the structure fit into the neighborhood. Avoid large, blank planar surfaces.



*Right: The top example shows compatible massing and scale, with individual elements that are proportionate with the architectural elements of the neighborhood. The bottom example is incompatible, with its large monolithic form, horizontal orientation, and large unbroken planar surfaces.*

## SENSE OF ENTRY

**Goal:** Emphasize entrances to structures.

**Guideline:** Entrances should be located on the front facade of the building and highlighted with architectural details, such as raised platforms, porches, or porticos to draw attention to the entry. Entrances not located on the front facade should be easily recognizable from the street.



*Above: Many people seek residential historic districts when house shopping, because most were true “front porch” communities. Large, welcoming porches are an important element not just of the homes in the North Slope and Wedge, but also of the district itself.*

## ROOF SHAPES AND MATERIALS

**Goal:** Utilize traditional roof shapes, pitches, and compatible finish materials on all new structures, porches, additions, and detached outbuildings wherever such elements are visible from the street. Maintain the present roof pitches of existing contributing buildings where such elements are visible from the street.

**Guideline:**

1. **Shape and Pitch:** Typically, the existing historic buildings in the districts either have gable roofs with the slopes of the roofs between 5:12 to 12:12 or more and with the pitch oriented either parallel to or perpendicular to the public right-of-way or have hipped roofs with roof slopes somewhat lower.
2. **Architectural Elements:** Most roofs also have architectural details, such as cross gables, dormers, and/or “widow’s walks” to break up the large sloped planes of the roof. Wide roof overhangs, decorative eaves or brackets, and cornices can be creatively used to enhance the appearance of the roof.
3. **Materials:** Roofs that are shingle or appear to be shingle, or composition roofs, are the typical historic material compatible with the district. Seam metal may be an acceptable material for simple roof structures. Slate, faux slate and terra cotta tiles are not appropriate for the districts.

## EXTERIOR MATERIALS

**Goals:** Use compatible materials that respect the visual appearance of the surrounding buildings. Buildings in the North Slope and Wedge Neighborhoods were sided with shingles or with lapped, horizontal wood siding of various widths. Subsequently, a few compatible brick or stucco-covered structures were constructed, although many later uses of these two materials do not fit the character of the neighborhood.

**Guideline:**

1. New structures should utilize exterior materials similar in type, pattern, configuration and appearance to those typically found in the neighborhood.
2. Stucco, especially commercial EIFS systems like Dryvit, is not acceptable for the historic district.
3. Faux materials, such as vinyl or metal siding, are not acceptable for the historic district.
4. Certain siding patterns, including board and batten and panel, are not historically common in the district and should not be used.
5. Cementitious products, such as Hardiplank, may be acceptable in the district if installed in a historically correct pattern (for example, horizontal lapped siding or shingle). In such cases, the product used shall be smooth in texture (faux wood grain finish is NOT acceptable).
6. Engineered products for trim and molding, if demonstrated to be similar in appearance to painted wood, may be an environmentally responsible substitute for wood on new structures. In such cases, the applicant should demonstrate to the Commission, via product literature and material samples, that the product is compatible.



## WINDOWS AND RHYTHM OF OPENINGS

**Goals:** Respect the patterns and orientations of door and window openings, as represented in the neighboring buildings. Window and door proportions (including the design of sash and frames), floor heights, floor shapes, roof shapes and pitches, and other elements of the building exterior should relate to the scale of the neighborhood.

**Guideline:**

1. Placement. Typically, older buildings have doors and transoms that matched the head height of the adjacent windows. New structures should utilize this pattern.
2. Doors. Doors should be or appear to be paneled and/or contain glazed openings.
3. Window configuration and detail. New structures should utilize existing historic window patterns in their design. Windows should be vertically oriented. Large horizontal expanses of glass may be created by ganging two or more windows into a series. Historically, the typical window in the district was a double hung sash window. Casement windows were commonly used for closets, nooks, and less commonly, as a principal window type in a structure. Many double hung sash windows had the upper sash articulated into smaller panels, either with muntin bars, leaded glazing, or arches. Muntins and grids should be true or simulated divided light. Grids sandwiched between thermal panes are not acceptable. Commonly, windows were also surrounded with substantial trim pieces or window head trim, and new window trim should utilize historic detail patterns. These may include crown molding, except where headers are engaged with a belly band or cornice, substantial projecting sills with aprons, and windows that are recessed or "punched in" so that the window sash and frame does not project beyond the wall plane. Design submittals for new structures shall include window trim details.
4. Window materials. Historically, windows were generally wood. New construction should use windows that are wood, or that mimic the appearance of wood (including clad or composite materials). Vinyl windows are generally not acceptable for new primary or detached accessory dwelling unit structures in the historic district.

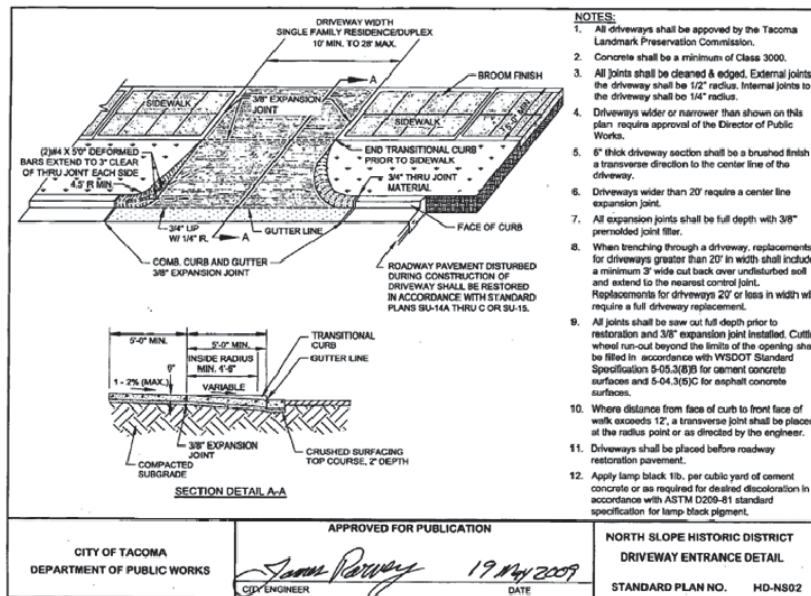
## PARKING

Please see the “Guidelines for the Alteration of Existing Buildings, Parking,” on page 19.

# SECTION V: STREET IMPROVEMENT STANDARDS FOR THE NORTH SLOPE AND WEDGE HISTORIC DISTRICTS

The architectural character of the North Slope and Wedge Neighborhood Historic Districts is significantly enhanced by the complementary residential nature of existing street amenities, including brick and cobblestone street paving, historic streetlights, planting strips, sidewalks, historic scoring patterns in walks and driveways, healthy trees, and a restrained use of signage. These elements should be retained or enhanced. Installation, repair, or replacement of streetlights, curbs, alley approaches, sidewalks, and street surfaces shall be consistent with the standards approved for the historic districts and kept on file with the Public Works Department.

1. Driveways: refer to Standard Plan HD-NS02 *Driveway Entrance Detail*
2. Sidewalk replacement: refer to Standard Plan HD-NS03 *Cement Concrete Sidewalk*
3. Alley Entrance: refer to Standard Plan HD-NS04 *Alley Entrance*
4. Streetlight Replacement: refer to Standard Plan HD-NS05 *Streetlight*



Left: Example of a Public Works Standard Plan.

CITY OF TACOMA DEPARTMENT OF PUBLIC WORKS	APPROVED FOR PUBLICATION  CITY ENGINEER	NORTH SLOPE HISTORIC DISTRICT DRIVEWAY ENTRANCE DETAIL STANDARD PLAN NO. HD-NS02
	19 MAY 2009 DATE	

## SECTION VI: GUIDELINES FOR COMMERCIAL CONSTRUCTION WITHIN THE WEDGE CONSERVATION DISTRICT

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**Goal:** Minimize visual impacts to the core district from commercial development that occurs on the periphery of the neighborhood. There are several areas within the Wedge Conservation District boundaries where commercial buildings will be constructed. Such construction projects should seek to minimize encroachment and visual impact by:

1. **Site planning.** Design new construction in such a manner that the primary massing of new buildings is directed away from the edges of the Wedge Neighborhood Historic District, particularly where the height of the new construction will be substantially higher than the historic apartment buildings also on the edges of the residential area. Locate entrances and exits in such a manner to minimize impacts from vehicular activities on the Wedge Historic District. Maintain and improve historically compatible streetscape and pedestrian amenities. Design buffers and setbacks for new buildings to maintain integrity of siting and availability of light and air. Locate parking to the rear or alley sides of new construction and avoid new curb cuts where alley access is available.
2. **Materials.** Utilize an exterior materials palette that reflects the typical and traditional building materials of the region, including wood and stone, and utilize other durable materials on new buildings. Avoid faux treatments or overtly synthetic materials.
3. **Scale and Massing.** Individual elements on elevations and building units should be designed to break up large planar surfaces and avoid large, monolithic massing. Vertically oriented new construction, consistent with historic modulation of individual façades and façade elements, as opposed to low single-story commercial construction, is preferred.

## SECTION VII: EXEMPTIONS

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### WEDGE NEIGHBORHOOD

The following actions are exempt from the requirements for Design Review:

1. Any alterations to noncontributing properties within the Wedge Historic Special Review Districts, as defined by the District Inventory adopted by the Commission and kept on file at the Historic Preservation Office and any alterations to properties within the designated Conservation District, are exempt from the design review requirements; provided, that alterations to accessory structures within the Historic District and the demolition of any structures in the Historic District and Conservation District, including noncontributing and accessory structures or the construction of new buildings, are not exempt from the provisions of this chapter;
2. Historically nonresidential and commercial use structures; provided, that the demolition of non-contributing or accessory structures are not exempt from the provisions of this chapter;
3. Interior modifications to existing structures, unless those modifications affect the exterior appearance of the structure;
4. Changes to the exteriors of contributing structures that are not visible from adjacent public rights-of-way may be granted an administrative Certificate of Approval by the Historic Preservation Officer, provided that staff is able to determine that the proposed project is consistent with the district design guidelines and applicable Secretary of the Interior's Standards, all without prejudice to the right of the owner at any time to apply directly to the Commission for its consideration and action on such matters;
5. Any alterations to private residential structures that are specifically exempted from permit requirements in the Residential Building Code as adopted by the City (such as painting and minor repairs such as caulking or weather-stripping);
6. The installation, alteration, or repair of public and private plumbing, sewer, water, and gas piping systems, where no right-of-way restoration is required;
7. The installation, alteration, or repair of public and private electrical, telephone, and cable television wiring systems; provided that the installation of solar panels, wind generators, and cellular antenna towers is not exempt;
8. The landscaping of private residences;
9. The maintenance of existing parking conditions and configurations, including curb cuts, driveways, alleys, and parking lots (new installations are subject to review by the Commission);
10. Signs not exceeding the limitations for a home occupation permit (TMC 13.06.100.E: one non-illuminated nameplate not exceeding one and one-half square feet in area placed flat against the building) and those installed by the City for directional and locational purposes;
11. The following types of projects within the public rights-of-way: ADA accessibility ramps and installations, in-road work, traffic-signaling equipment, utility markers, and equipment required by the United States Postal Service.

## NORTH SLOPE HISTORIC DISTRICT

The following actions are exempt from the requirements for design review:

1. Any alterations to non-contributing properties as defined by the District Inventory adopted by the Commission and kept on file at the Historic Preservation Office; provided, that modifications to accessory structures and the demolition of noncontributing or accessory structures are not exempt from the provisions of this chapter;
2. Interior modifications to existing structures, unless those modifications affect the exterior appearance of the structure;
3. Any alterations to private residential structures that are specifically exempted from permit requirements in the Residential Building Code as adopted by the City (such as painting and minor repairs such as caulking or weather-stripping);
4. The installation, alteration, or repair of public and private plumbing, sewer, water, and gas piping systems, where no Right of Way restoration is required;
5. The installation, alteration, or repair of public and private electrical, telephone, and cable television wiring systems, provided that the installation of solar panels, wind generators, and cellular antenna towers is not exempt;
6. The landscaping of private residences;
7. The maintenance of existing parking conditions and configurations, including curb cuts, driveways, alleys, and parking lots (new installations are subject to review by the Commission);
8. Signs not exceeding the limitations for a home occupation permit (TMC 13.06.100.E: one non-illuminated nameplate not exceeding one and one-half square feet in area placed flat against the building) and those installed by the City for directional and locational purposes;
9. The following types of projects within the public rights of way: ADA accessibility ramps and installations, in-road work, traffic signaling equipment, utility markers, and equipment required by the United States Postal Service.