



**DRAFT Initial Study
Negative Declaration**

**Pigeon Point Light Station State Historic Park
Lighthouse Rehabilitation Project**



June 2016

**State of California
Department of Parks and Recreation
Santa Cruz District**

PIGEON POINT LIGHT STATION SHP

Vicinity Map

Legend

- Feature 1
- Pigeon Point Lighthouse

Pigeon Point Lighthouse

Gabrillo Hwy

1

Google earth

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Data ©LMB SPTL, CA, OPC
Data SIO, NOAA, U.S. Navy, NGA, GEBCO



3 mi

NEGATIVE DECLARATION

PROJECT: Lighthouse Rehabilitation Project
Pigeon Point Light Station SHP

LEAD AGENCY: Department of Parks and Recreation

AVAILABILITY OF DOCUMENTS: The Initial Study for this Mitigated Negative Declaration is available for review at:

- San Mateo Coast Sector Office
95 Kelly Avenue
Half Moon Bay, CA 94019-1627
- Santa Cruz District Office
303 Big Trees Park Road
Shelton, CA 95018
- Northern Service Center
One Capitol Mall, Suite 410
Sacramento, California 95814
- Half Moon Bay Library
620 Correas Street
Half Moon Bay, CA 94019
- Internet Address: [http://www.parks.ca.gov/CEQA Notices](http://www.parks.ca.gov/CEQA_Notices)

PROJECT DESCRIPTION:

DPR proposes the rehabilitation of the historic Pigeon Point Lighthouse and Oil House to preserve and maintain these historic structures at the Pigeon Point Light Station State Historic Park Area in San Mateo County on the Central Coast of California; approximately 21 road miles south of Half Moon Bay and 27 road miles north of Santa Cruz, California.

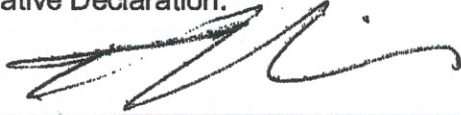
A copy of the Initial Study is attached; questions or comments regarding this Initial Study/Mitigated Negative Declaration may be addressed to:

Brad Michalk
California State Parks
Northern Service Center
One Capitol Mall, Ste. 410
Email: CEQANSC@parks.ca.gov
Fax: 916-445-8883

Submissions must be in writing and postmarked or received by fax or email no later than August 22, 2016. The originals of any faxed document must be received by regular mail within ten working days following the deadline for comments, along with proof of successful

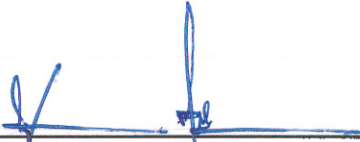
fax transmission. Email or fax submissions must include full name and address. All comments will be included in the final environmental document for this project and become part of the public record.

Pursuant to Section 21082.1 of the California Environmental Quality Act, the California Department of Parks and Recreation (DPR or California State Parks) has independently reviewed and analyzed the Initial Study and Draft Mitigated Negative Declaration for the proposed project and finds that these documents reflect the independent judgment of DPR. DPR, as lead agency, also confirms that the project requirements and mitigation measures detailed in these documents are feasible and will be implemented as stated in the Mitigated Negative Declaration.



Terry Kiser
Sector Superintendent
San Mateo Coast Sector

7/20/16
Date



Brad Michalk
Environmental Coordinator
Northern Service Center

07/20/2016
Date

TABLE of CONTENTS

<u>Chapter/Section</u>	<u>Page</u>
Table of Contents	
CHAPTER 1	1
INTRODUCTION	1
1.1 Introduction and Regulatory Guidance	1
1.2 Lead Agency	1
1.3 Purpose and Document Organization.....	2
1.4 Summary of Findings.....	3
CHAPTER 2	5
PROJECT DESCRIPTION	5
2.1 Introduction.....	5
2.2 Project Location.....	5
2.3 Project Background	5
2.4 Need for the project.....	6
2.5 Project Objectives.....	6
2.6 Project Description	6
2.6 Project Requirements	9
2.7 Project Implementation.....	11
2.9 Consistency with Local Plans and Policies.....	11
2.10 Discretionary Approvals.....	11
2.11 Related Projects	12
CHAPTER 3	13
ENVIRONMENTAL CHECKLIST	13
I. AESTHETICS.....	15
II. AGRICULTURAL and FOREST RESOURCES.....	16
III. AIR QUALITY.....	17
IV. BIOLOGICAL RESOURCES.....	18
V. CULTURAL RESOURCES.....	19
VI. GEOLOGY AND SOILS.....	21
VII. GREENHOUSE GAS EMISSIONS.....	22
VIII. HAZARDS AND HAZARDOUS MATERIALS.....	23
IX. HYDROLOGY AND WATER QUALITY.....	25
X. LAND USE AND PLANNING.....	27
XI. MINERAL RESOURCES.....	28
XII. NOISE.....	29
XIII. POPULATION AND HOUSING.....	30
XIV. PUBLIC SERVICES.....	31
XV. RECREATION.....	32
XVI. TRANSPORTATION/TRAFFIC.....	33
XVII. UTILITIES AND SERVICE SYSTEMS.....	34
CHAPTER 4	35
MANDATORY FINDINGS OF SIGNIFICANCE	35
CHAPTER 5	36
SUMMARY OF MITIGATION MEASURES	36

CHAPTER 6	37
REPORT PREPARATION	37

Appendices

A Project Plans

CHAPTER 1

INTRODUCTION

1.1 Introduction and Regulatory Guidance

The Initial Study/Negative Declaration (IS/ND) was prepared by the California Department of Parks and Recreation (DPR) to evaluate the potential environmental effects of the proposed Lighthouse Rehabilitation Project at Pigeon Point Light Station State Historic Park, San Mateo County, California. This document was prepared in accordance with the California Environmental Quality Act (CEQA), Public Resources Code §21000 *et seq.*, and the State CEQA Guidelines, California Code of Regulations (CCR) §15000 *et seq.*

An Initial Study is conducted by a lead agency to determine if a project may have a significant effect on the environment [CEQA Guidelines §15063(a)]. If there is substantial evidence that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) must be prepared, in accordance with CEQA Guidelines §15064(a). However, if the lead agency determines that the project would result in no potentially significant effects, a Negative Declaration may be prepared. The lead agency prepares a written statement describing the reasons a proposed project would not have a significant effect on the environment and, therefore, why an EIR need not be prepared. This IS/ND conforms to the content requirements under CEQA Guidelines §15071.

1.2 Lead Agency

The lead agency is the public agency with primary approval authority over the proposed project. In accordance with CEQA Guidelines §15051(b)(1), "the lead agency will normally be an agency with general governmental powers, such as a city or county, rather than an agency with a single or limited purpose." The lead agency for the proposed project is DPR. The contact person for the lead agency regarding specific project information is:

Terry Kiser, Superintendent
San Mateo Coast Sector
95 Kelly Avenue
Half Moon Bay, CA 94019-1627
Phone: (650)879-2028
Email: Terry.Kiser@parks.ca.gov

Questions or comments regarding this Initial Study/Negative Declaration should be submitted to:

Brad Michalk
California State Parks
Northern Service Center
One Capitol Mall, Ste. 410
Email: CEQANSC@parks.ca.gov
Fax: 916-445-8883

Submissions must be in writing and postmarked or received by fax or email no later than July 18, 2016. The originals of any faxed document must be received by regular mail within ten working days following the deadline for comments, along with proof of successful fax transmission. Email or fax submissions must include full name and address. All comments will be included in the final environmental document for this project and become part of the public record.

1.3 Purpose and Document Organization

The purpose of this document is to evaluate the potential environmental effects of the proposed Lighthouse Rehabilitation Project at Pigeon Point Light Station State Historic Park. Project requirements have also been incorporated into the project to ensure that any potentially significant impacts remain at a less-than-significant level.

This document is organized as follows:

- Chapter 1 - Introduction.

This chapter provides an introduction to the project and describes the purpose and organization of this document.

- Chapter 2 - Project Description.

This chapter describes the reasons for the project, scope of the project, project objectives and project requirements.

- Chapter 3 - Environmental Setting, Impacts, and Mitigation Measures.

This chapter identifies the significance of potential environmental impacts, explains the environmental setting for each environmental issue, and evaluates the potential impacts identified in the CEQA Environmental (Initial Study) Checklist. Mitigation measures are incorporated, where appropriate, to reduce potentially significant impacts to a less than significant level.

- Chapter 4 - Mandatory Findings of Significance.

This chapter identifies and summarizes the overall significance of any potential impacts to natural and cultural resources, cumulative impacts, and impact to humans, as identified in the Initial Study.

- Chapter 5 - Summary of Mitigation Measures.

This chapter summarizes the mitigation measures incorporated into the project as a result of the Initial Study.

- Chapter 6 - Report Preparation

This chapter provides a list of those involved in the preparation of this document.

1.4 Summary of Findings

Chapter 3 of this document contains the Environmental (Initial Study) Checklist that identifies the potential environmental impacts (by environmental issue) and a brief discussion of each impact resulting from implementation of the proposed project.

Based on the IS and supporting environmental analysis provided in this document, the proposed Lighthouse Rehabilitation Project would result in less than significant impacts for the following issues: aesthetics, agricultural resources, air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation/traffic, and utilities and service systems.

In accordance with §15064(f) of the CEQA Guidelines, a ND shall be prepared if the proposed project will not have a significant effect on the environment. Based on the available project information and the environmental analysis presented in this document, there is no substantial evidence that the proposed project would have a significant effect on the environment.

CHAPTER 2

PROJECT DESCRIPTION

2.1 Introduction

This Initial Study/Negative Declaration (IS/ND) has been prepared by the California Department of Parks and Recreation (DPR or California State Parks) to evaluate the potential environmental effects of the proposed Lighthouse Rehabilitation Project at Pigeon Point Light Station State Historic Park (PPLSSHP), located in San Mateo County, California. The proposed project would rehabilitate the Pigeon Point Lighthouse and Oil House to preserve and maintain these historic structures for future generations.

2.2 Project Location

PPLSSHP is located approximately 21 road miles south of Half Moon Bay and 27 road miles north of Santa Cruz, California on State Route 1. Presently, PPLSSHP encompasses about 13.5 acres of parkland that includes park restrooms, limited picnic tables, and a park store located in the historic carpenter's shop. Also located within the park is the Pigeon Point Hostel for guests who are interested in staying overnight. A small public beach is located 100 yards from the main parking lot. Township 8S, Range 5W, Mount Diablo Base Meridian, USGS 7.5' Pigeon Point, CA Quadrangle

2.3 Project Background

The unit has been part of the California State Park system since September 2011, when the Public Works Board of the State of California authorized the no-cost acquisition of the property. Completed in 1872, the Pigeon Point Light Station includes one of the tallest (115') lighthouses on the West Coast. It was listed on the National Register of Historic Places (National Register) in 1976 and is an important landmark on the coast. The tower is constructed of unreinforced bricks, and stands on an 8 foot thick concrete foundation. The walls are five feet thick at the base and taper to two feet at the top.

The 1976 National Register of Historic Places nomination included only the Lighthouse. Once the Tower is repaired and the Fresnel lens reinstalled, thereby restoring the Tower's integrity, DPR will amend the National Register nomination to include the site and contributing buildings such as the Fog Signal Building, Carpenters Shop, and Oil House.

In December 2001, a portion of the Tower's upper iron belt course failed and fell 80 feet to the ground. Subsequent inspections revealed that the Tower's structure was in poor condition. Due to safety concerns, public tours of the Tower and attached Oil House were suspended at that time and have not resumed.

In November 2011, the Fresnel lens was removed and put on exhibit in the Fog Signal Building out of concerns for the Tower's structural integrity and to facilitate anticipated structural improvements.

2.4 Need for the project

The solid foundation and masonry walls of the Tower are in good condition, but the upper levels (at the upper belt course and above) are in critical condition. The cast iron elements in this area have suffered greatly from the extreme marine environment, as indicated by the extensive corrosion of the metal elements and the spalling of brick in the vicinity of the corroded cast iron belt courses. The cast iron belt courses at the base of the Tower are also corroded and displaced from rust-jacking. In addition, efflorescence is visible at the interior of the Tower at the upper levels indicating moisture intrusion through the walls.

The building materials at the Oil House are in good condition where the protective coatings have been maintained. Where water has gotten into the walls or roofing materials, efflorescence, rotted wood or corrosion of metal elements has been the result. The interior finish materials have deteriorated through heavy use over time, and some have been replaced with more recent materials.

2.5 Project Objectives

The mission of the California Department of Parks and Recreation is to provide for the health, inspiration, and education of the people of California by helping to preserve the state's extraordinary biological diversity, protecting its most valued natural and cultural resources, and creating opportunities for high-quality recreation. This is also stated in the California's Recreation Policy adopted by the California State Park and Recreation Commission on September 23, 2005.

This project would rehabilitate the deteriorating lighthouse, preserving it for the enjoyment of future generations.

2.6 Project Description

DPR proposes to rehabilitate the historic Pigeon Point Lighthouse and adjoining Oil House consistent with the Secretary of Interior's Standards, to preserve the resource for future generations in coastal San Mateo County, on the central coast of California; approximately 21 road miles south of Half Moon Bay and 27 miles north of Santa Cruz, California. Specific work would include:

Pre-Construction

- Perform site clearing at the base of the lighthouse as necessary to prepare a lay down and accessible work area. This will require the removal of the existing non-native plants and vegetation in the area to be utilized and the installation of gravel or road base in portions of the cleared area;
- Install temporary site office trailer, fencing, electrical distribution and temporary toilets/sinks;
- Install wildlife-friendly straw waddles for erosion control;

Demolition and Coating Removal

- Remove the vent ball for refurbishment and support post replacement;
- Remove existing cast metal cove piece at the bottom of the roof;
- Prepare existing roof to accept the new copper roof;

- Remove the auxiliary beacon and deck extension;
- Remove existing railing at Lantern Room deck perimeter;
- Remove glazing from lantern room glazing wall;
- Remove existing railing at Watch Room deck perimeter;
- Remove masonry material adjacent to the cast iron plates in the interior of the Watch Room wall, to allow for bond beam installation;
- Remove cast iron decking exterior the Watch Room;
- Remove the brick masonry for the new bond beam at the base of the Lantern deck behind the exterior cast iron wall plates;
- Remove cast iron doors for repair/replacement, door frames to remain in place;
- Provide and install engineered shoring as required;
- Demolish and remove tube steel installed in 1992;
- Removal of the cast iron deck at the Watch Room;
- Remove the remaining cast iron fascia piece at the deck perimeter;
- Remove the cast iron belt course at the base of the decorative cast iron brackets;
- Remove and salvage of the brick masonry in phases for the belt course bond beam;
- Remove and salvage of the brick masonry in phases for the interior bond beam at the base of the Watch Room deck;
- Remove wood window sash at Service Room;
- Remove brick masonry to allow for the removal of the two lower cast iron belt courses;
- Remove the two lower cast iron belt courses;
- Remove the entry door and cast iron frame to the Oil House;
- Remove all coatings on the interior masonry of the tower;
- Remove all coatings on the exterior masonry of the tower;
- Remove coating from the glazing assembly of the Lantern Room;
- Remove all coatings from the exterior cast iron by abrasive blasting;
- Remove all coatings from the interior cast iron and interior cast iron stairs by abrasive blasting;

Re-installation and Repairs

- Refurbish vent ball and re-install on new support post;
- Install new 66 oz. standing seam copper roof;
- Install new brass/ bronze cove piece at the base of the roof;
- Install new stainless ladder rest rail below roof at the bottom of the cove;
- Clean and refurbish glazing frames in the Lantern Room. Prepare all glazing pockets to accept salvaged and new glazing;
- Repair all mechanical glazing fasteners and threaded attachments in the glazing system;
- Install new tempered glazing in the glazed curtain wall;
- Install new bronze access door in the glazed curtain wall for access to new Coast Guard beacon;
- Repair cast iron base that connects the glazing frame to the tower structure;
- Restore to operation eight vents at the base of the glazing wall;
- Install new slotted bronze soffit as a component of the repaired ventilation system;
- Repair the existing cast iron deck plates at the Lantern Room level;

- Install new isolated paint grade stainless steel railing at the lantern room level;
- Repair cast iron plates on the exterior wall of the Watch Room;
- Clean and repair as required the cast iron structures exposed for the installation of the new concrete bond beam at the base of the Lantern Level;
- Install the new exterior side concrete bond beam at the base of the Lantern Level;
- Repair/replace interior cast iron plates removed to install new bond beam at the base of the Lantern Level;
- Install new interior concrete bond beam below the Watch Room deck;
- Replace masonry with new bricks after bond beam installation;
- Install new W4 stainless steel bracket and cantilevered arm assemblies at the exterior of the Service Room;
- Install cast iron deck edge at the Lantern Gallery deck level;
- Install new flashing and cast iron fascia at the Watch Room deck level;
- Install new isolated cast stainless steel decking at the Watch Room level with new deck to wall connection detail;
- Install new concrete bond beam at the base of the decorative cast iron brackets;
- Install new decorative cast iron cover after bond beam is installed at the base of the cast iron brackets;
- Repair 75 LF of cracking in the decorative cast iron brackets;
- Install new isolated shop primed stainless railing at the Watch Room level;
- Repair both the interior and exterior doors and frames to the Watch Room exterior deck;
- Repair existing cast iron window frames install new wood window sash in the Service Room;
- Install salvaged granite window lintel using stainless steel pins set in epoxy;
- Install new and refurbished lower cast iron belt courses;
- Repair masonry that was removed to allow for the installation of the two lower belt courses;
- Install new wood entry door and frame the Oil House main entry;

New Coating Installation*

- Prepare and paint new cast iron lower belt courses, ventilation ball, bronze cove piece at base of copper roof, curtain wall glazing structure in the Lantern Room, cast iron plates on the exterior of the Watch Room, cast iron plates on the interior of the Watch Room, new and existing doors, frames, and window sash on the Watch Room and Service Room levels, new stainless steel railings on the Lantern and Watch Room levels, repaired cast iron brackets below the Watch Room level, and all masonry;
- Treat new copper roof with 3-in-one oil wipe to attempt to control oxidation;
- Prepare and paint repaired and new window frames and sash on levels 1, 2, & 4 of the tower;
- Prepare and paint.

Oil House Repairs

- Remove all coatings from existing masonry;
- Create crawl space access for installation of below floor seismic upgrade and repair when completed;
- Construct new seismic upgrade design above and below the ground floor level;

- Install new stainless steel tubes steel chimney bracing system;
- Remove the existing roofing and install new plywood roof sheathing;
- Repair roof rafters as required, and install new stainless steel roof to wall ties;
- Install new wood shingle roof with copper flashings and copper ridge cap;
- Install new pitch pocket detail at chimneys;
- Repoint brick masonry as required;
- Repairs/replacement, as required, for the exterior wood trim;
- Strip paint from all window sash and frames;
- Repair and paint existing wood window sash;
- Paint all exterior walls and wood trim;
- Minor electrical work per architectural drawings;

Oil house Interior Repairs

- Repair all interior doors and frames and tongue and groove flooring in Oil Room and Work Room;
- Install minor electrical additions and changes;
- Repair interior wood trim;
- Remove paint from all interior masonry walls, door frames and doors;
- Paint the interiors of all rooms, windows and doors and flooring.

2.6 Project Requirements

Under CEQA, the Department of Parks and Recreations has the distinction of being considered a lead agency, a public agency that has a primary responsibility for carrying out or approving a project and for implementing CEQA; a responsible agency, a public agency other than the lead agency that has responsibility for carrying out or approving a project and for complying with CEQA; and a trustee agency, a state agency having jurisdiction by law over natural resources affected by a project that are held in trust for the people for the State of California. With this distinction comes the responsibility to ensure that actions that protect both cultural and natural resources are always incorporated into all projects. Therefore, DPR has created a list of Project Requirements that are included in project design to reduce impacts to resources.

DPR has developed a list of Standard Project Requirements (SPR) that are actions that have been standardized statewide for the use of avoiding significant project-related impacts to the environment. From this list, standard project requirements are assigned, as appropriate, to all projects. For example, projects that include ground-disturbing activities, such as trenching would always include standard project requirements addressing the inadvertent discovery of archaeological artifacts. However, for a project that replaces a roof on an historic structure, ground disturbance would not be necessary; therefore standard project requirements for ground disturbance would not be applicable and would not be assigned to the project.

DPR also makes use of Specific Project Requirements (PSR). These are project requirements that are developed to address project impacts for projects that have unique issues; they would not typically be standardized for projects statewide.

Table 1: Project Requirements	
Element/Title	Requirement
SPR CULT 1	Previously Undocumented Resources
	<p>If previously unknown cultural resources (including but not limited to dark soil containing shell, bone, flaked stone, ground stone, or deposits of historic material) are discovered, work shall immediately cease within 10 feet of the find(s) and notify the State's Representative of the location and description of the find(s). Contractors shall be directed to other project tasks. Contractors shall not work in the area until receipt of written approval from the State's Representative to resume activity in the area of the discovery.</p>
SPR CULT 2	Archeological Monitoring
	Contractors shall allow on-site archaeological monitoring at the discretion of the DPR-approved archaeologist.
SPR CULT 3	Human Remains Discovery
	<p>In the event that human remains are discovered, work will cease immediately in the area of the find and the project manager/site supervisor will notify the appropriate DPR personnel. Any human remains and/or funerary objects will be left in place or returned to the point of discovery and covered with soil. The DPR Sector Superintendent (or authorized representative) will notify the County Coroner, in accordance with §7050.5 of the California Health and Safety Code, and the Native American Heritage Commission (or Tribal Representative). If a Native American monitor is on-site at the time of the discovery, the monitor will be responsible for notifying the appropriate Native American authorities.</p> <p>The local County Coroner will make the determination of whether the human bone is of Native American origin. If the Coroner determines the remains represent Native American interment, the NAHC in Sacramento and/or tribe will be consulted to identify the most likely descendants and appropriate disposition of the remains. Work will not resume in the area of the find until proper disposition is complete (PRC §5097.98). No human remains or funerary objects will be cleaned, photographed, analyzed, or removed from the site prior to determination.</p> <p>If it is determined the find indicates a sacred or religious site, the site will be avoided to the maximum extent practicable. Formal consultation with the State Historic Preservation Office and review by the Native American Heritage Commission/Tribal Cultural representatives will occur as necessary to define additional site mitigation or future restrictions.</p>
PSR HAZ 1	Hazardous Materials

	<p>The lay down area around the lighthouse shall be accomplished by mowing existing vegetation (leaving root systems intact) where necessary to provide the adequate laydown area, install polyethylene sheeting across mowed vegetation and install road base on top of the sheeting. At the conclusion of the rehabilitation project, the road base and sheeting shall be removed and properly disposed off-site.</p>
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2.7 Project Implementation

No official start date has been set for the project. Furthermore, work may be accomplished in phases as funding becomes available. Work would occur only during daylight hours and would be scheduled to incur the least amount of impact to visitors; however, weekend work could be implemented to accelerate construction or address emergency or unforeseen circumstances.

Equipment, such as backhoe, compressor, and generator would be used during construction but most work would be limited to hand tools. Most equipment would be transported to the site and remain until associated work is completed. Transport vehicles for material or equipment delivery trucks, and crew vehicles would also be present intermittently at the site. Staging areas for equipment would be confined an existing fenced gravel area that formerly served as visitor parking.

Best Management Practices (BMPs) would be incorporated into this project design to ensure that the natural and cultural resources in and around the project area are adequately protected during and after construction. The BMPs discussed in this document and used in the implementation of this project were obtained from the *California Stormwater Quality Association (CSQA), Stormwater Best Management Practices Construction Handbook*. Temporary BMPs would be used to keep sediment on-site throughout the duration of the project; during construction, BMPs would be checked daily, maintained, and modified as needed. BMPs would be used after construction to stabilize the site and minimize erosion.

The Department of Parks and Recreation has consistently referenced CSQA BMPs and has identified them as an acceptable standard for use in all State Parks.

2.9 Consistency with Local Plans and Policies

The proposed project to rehabilitate the Pigeon Point Lighthouse and attached Oil House is consistent with local plans and polices including the San Mateo County General Plan to provide quality recreational opportunities and protect resources. Although PPLSSHP does not have a General Plan, work to repair, replace, or rehabilitate existing facilities or to protect public health and safety are permitted under PRC § 5002.2 (c). All proposed work would occur within the boundaries of PPLSSHP.

2.10 Discretionary Approvals

The project consists solely of the rehabilitation of an existing structure and no new development will result. The footprint and/or use of the facility will not change as a result of the project. Existing vegetation that would be affected by the work is limited to

non-native invasive ice plant. As such, this project does not require any discretionary approvals.

2.11 Related Projects

A new restroom was added in 2011 and a shed in 2012. Other projects in the park include on-going general maintenance of the park facilities but no other projects are proposed or have been identified.

CHAPTER 3 ENVIRONMENTAL CHECKLIST

PROJECT INFORMATION

1. Project Title: Pigeon Point Lighthouse Rehabilitation Project
2. Lead Agency Name & Address: California Department of Parks and Recreation
3. Contact Person & Phone Number: Terry Kiser
650-208-9007
4. Project Location: Pigeon Point Light Station State Historic Park
5. Project Sponsor Name & Address: California Department of Parks and Recreation
San Mateo Sector
95 Kelly Avenue
Half Moon Bay, CA 94019-1627
6. General Plan Designation: State Historic Park
7. Zoning: Recreation
8. Description of Project:

DPR proposes the rehabilitation of the historic Pigeon Point Lighthouse and Oil House to preserve and maintain these historic structures at the Pigeon Point Light Station State Historic Park Area in San Mateo County on the Central Coast of California.
9. Surrounding Land Uses & Setting: Refer to Chapter 3 of this document (Section IX, Land Use Planning)
10. Approval Required from Other Public Agencies: None

1. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact", as indicated by the checklist on the following pages.

- | | | |
|--|---|---|
| <input type="checkbox"/> Aesthetics | <input type="checkbox"/> Agricultural Resources | <input type="checkbox"/> Air Quality |
| <input type="checkbox"/> Biological Resources | <input type="checkbox"/> Cultural Resources | <input type="checkbox"/> Geology/Soils |
| <input type="checkbox"/> Hazards & Hazardous Materials | <input type="checkbox"/> Hydrology/Water Quality | <input type="checkbox"/> Land Use/Planning |
| <input type="checkbox"/> Mineral Resources | <input type="checkbox"/> Noise | <input type="checkbox"/> Population/Housing |
| <input type="checkbox"/> Public Services | <input type="checkbox"/> Recreation | <input type="checkbox"/> Transportation/Traffic |
| <input type="checkbox"/> Utilities/Service Systems | <input type="checkbox"/> Mandatory Findings of Significance | <input checked="" type="checkbox"/> None |

DETERMINATION

On the basis of this initial evaluation:

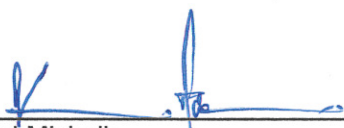
I find that the proposed project **COULD NOT** have a significant effect on the environment and a **NEGATIVE DECLARATION** will be prepared.

I find that, although the original scope of the proposed project **COULD** have had a significant effect on the environment, there **WILL NOT** be a significant effect because revisions/mitigations to the project have been made by or agreed to by the applicant. A **MITIGATED NEGATIVE DECLARATION** will be prepared.

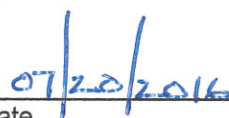
I find that the proposed project **MAY** have a significant effect on the environment and an **ENVIRONMENTAL IMPACT REPORT** or its functional equivalent will be prepared.

I find that the proposed project **MAY** have a "potentially significant impact" or "potentially significant unless mitigated impact" on the environment. However, at least one impact has been adequately analyzed in an earlier document, pursuant to applicable legal standards, and has been addressed by mitigation measures based on the earlier analysis, as described in the report's attachments. An **ENVIRONMENTAL IMPACT REPORT** is required, but it must analyze only the impacts not sufficiently addressed in previous documents.

I find that, although the proposed project could have had a significant effect on the environment, because all potentially significant effects have been adequately analyzed in an earlier EIR or Negative Declaration, pursuant to applicable standards, and have been avoided or mitigated, pursuant to an earlier EIR, including revisions or mitigation measures that are imposed upon the proposed project, all impacts have been avoided or mitigated to a less-than-significant level and no further action is required.



Brad Michalk
Environmental Coordinator



Date

ENVIRONMENTAL ISSUES

I. AESTHETICS.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Have a substantial adverse effect on a scenic vista?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Criteria for Determining Significance

The analysis of determining the significance of impacts of the Proposed Action to Aesthetics is based on criteria I a-d, described in the environmental checklist above.

DISCUSSION

a-d) While the proposed rehabilitation work will temporarily affect the views of the Lighthouse tower and the Oil House, these facilities are currently cordoned off by 6' tall construction fencing for safety reasons. The effect on the viewshed as a whole will not be substantially, adversely, affected, and upon completion of the work, the scenic vista of, and including the two structures will be improved. Additionally, while the project site is located off of SR 1, an officially designated State Scenic Highway, the project does not propose work that would damage scenic resources, degrade the visual character of the site or its surroundings or create a new source of light or glare. No impact.

II. AGRICULTURAL and FOREST RESOURCES.

WOULD THE PROJECT*:	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code §4526), or timberland zoned Timberland Production (as defined by government Code § 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997), prepared by the California Department of Conservation as an optional model for use in assessing impacts on agricultural and farmland.

DISCUSSION

a-e) PPLSHP does not support any agricultural/timber operations, is not zoned as prime agricultural or timber production land, or used for grazing purposes. This project would have no impact on any category of California Farmland, conflict with any existing zoning for agricultural use or Williamson Act contract. There would be no loss of forestland or conversion of land to non-forest use or conversion of Farmland to non-agricultural use. No Impact.

III. AIR QUALITY.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT*:				
a) Conflict with or obstruct implementation of the applicable air quality plan or regulation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations (e.g., children, the elderly, individuals with compromised respiratory or immune systems)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

* Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied on to make these determinations.

DISCUSSION

a-e) The proposed project to rehabilitate and stabilize the Lighthouse tower and Oil House will utilize generators to carry out some of the proposed project work which may produce low levels of odors and pollutants but will not be in operation at all times and will be limited to use when needed. Overall, the proposed project work will not conflict with or obstruct implementation of any applicable air quality plan; violate any air quality standards or contribute to an air quality violation; result in a net increase of any pollutant; expose sensitive receptors to substantial pollutant concentrations or; create objectionable odors affecting a substantial number of people. No impact.

IV. BIOLOGICAL RESOURCES.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a sensitive, candidate, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or the U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or the U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands, as defined by §404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-f) As proposed, the project involves work on the existing Lighthouse tower and the Oil House building. The proposed work does not involve impacts or changes to habitats for sensitive or special status species, riparian habitats or federally protected wetlands. Additionally, the work will not interfere with the migratory patterns of wildlife species, conflict with biologic resource policies, or conflict with the provisions of an adopted Habitat Plan. No impact.

V. CULTURAL RESOURCES.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Cause a substantial adverse change in the significance of a historical resource, as defined in §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource, pursuant to §15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

DISCUSSION

- a) The project entails rehabilitation of the Pigeon Point Light Station and Oil House. The project has been designed, and will be implemented in accordance with the Secretary of Interior’s Standards. Less than significant.
- b) Construction and rehabilitation activities related to this proposed project, including but not limited to earth movement, staging areas, or operation of equipment could significantly impact unrecorded archaeological deposits located within the proposed project area. Adherence to **Standard Project Requirements CULT – 1 Previously Undocumented Resources** and **CULT – 2 Archeological Monitoring** would ensure impacts to archaeological resources remains less than significant.

SPR CULT 1 - PREVIOUSLY UNDOCUMENTED RESOURCES

If previously unknown cultural resources (including but not limited to dark soil containing shell, bone, flaked stone, ground stone, or deposits of historic material) are discovered, work shall immediately cease within 10 feet of the find(s) and notify the State’s Representative of the location and description of the find(s). Contractors shall be directed to other project tasks. Contractors shall not work in the area until receipt of written approval from the State’s Representative to resume activity in the area of the discovery.

SPR CULT 2 - ARCHAEOLOGICAL MONITORING

Contractors shall allow on-site archaeological monitoring at the discretion of the DPR-approved archaeologist.

- c) In many of California's historic townsites and rural communities discoveries have been made of Native American and non-Native American human bone including non-Anglo. There is always a potential of unanticipated discoveries of human bone. If any human remains or burial artifacts were identified, implementation of

Standard Project Requirement CULT 2 - Human Remains Discovery would ensure that impacts remain at a less than significant level.

SPR CULT 3 - HUMAN REMAINS DISCOVERY

In the event that human remains are discovered, work will cease immediately in the area of the find and the project manager/site supervisor will notify the appropriate DPR personnel. Any human remains and/or funerary objects will be left in place or returned to the point of discovery and covered with soil. The DPR Sector Superintendent (or authorized representative) will notify the County Coroner, in accordance with §7050.5 of the California Health and Safety Code, and the Native American Heritage Commission (or Tribal Representative). If a Native American monitor is on-site at the time of the discovery, the monitor will be responsible for notifying the appropriate Native American authorities.

The local County Coroner will make the determination of whether the human bone is of Native American origin. If the Coroner determines the remains represent Native American interment, the NAHC in Sacramento and/or tribe will be consulted to identify the most likely descendants and appropriate disposition of the remains. Work will not resume in the area of the find until proper disposition is complete (PRC §5097.98). No human remains or funerary objects will be cleaned, photographed, analyzed, or removed from the site prior to determination.

If it is determined the find indicates a sacred or religious site, the site will be avoided to the maximum extent practicable. Formal consultation with the State Historic Preservation Office and review by the Native American Heritage Commission/Tribal Cultural representatives will occur as necessary to define additional site mitigation or future restrictions.

VI. GEOLOGY AND SOILS.

WOULD THE PROJECT:	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area, or based on other substantial evidence of a known fault? (Refer to Division of Mines and Geology Special Publication 42.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable, as a result of the project and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1997), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste disposal systems, where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Directly or indirectly destroy a unique paleontological resource or site, or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-f) As proposed, the project does not include ground disturbance work beyond the removal of vegetation from around the base of the historic light house. Project site is not located in close proximity to a known earthquake fault and is not subject to seismic ground shaking or seismic-related ground failure. Project work will not result in substantial soil erosion and the project site is not located on or in expansive soil. No septic tanks or alternative waste disposal systems are proposed as a part of this project and proposed work will not impact a paleontological resource or site, or unique geologic feature. No Impact.

VII. GREENHOUSE GAS EMISSIONS

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environmental?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

- a) Due to the nature of the proposed project (lighthouse rehabilitation), and that most of the work will entail the use of hand tools, it is not necessary to assess potential GHG impacts qualitatively. No impact would result.
- b) The proposed Pigeon Point Lighthouse Rehabilitation Project would not violate San Mateo County’s air quality standards and would not result in a cumulatively considerable increase in emissions. Therefore, the proposed Project would not generate significant GHG emissions and would therefore not conflict with the current State or any applicable plans, policies or regulations concerning GHG emissions. No impact.

VIII. HAZARDS AND HAZARDOUS MATERIALS.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials, substances, or waste into the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites, compiled pursuant to Government Code §65962.5, and, as a result, create a significant hazard to the public or environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport? If so, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be located in the vicinity of a private airstrip? If so, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury, or death from wildland fires, including areas where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a, b,d) The project entails removal of all interior and exterior coatings (paint) that contains lead. Paint will be contained by installation of shrinkwrap on the exterior of the scaffold, and a negative air system after the installation of the scaffold and shrink wrap. The system as designed will prevent the release of hazardous materials into the environment.

The Department of Toxic Substance Control's Envirostar data base indicates that soil around the Pigeon Point Light Station is contaminated with lead from historic use of lead-based paints. The data base further indicates that a DTSC-approved soil management plan would be required for any soil disturbances.

The project description notes that site clearing would be required at the base of the lighthouse to prepare an appropriate lay down and accessible work area. It would require the removal of the existing plants and vegetation in that area and the installation of gravel or road base in portions of the cleared area. Presumably, soil disturbance would necessarily occur as a result of that site clearing. Implementation of **Project Specific Requirement HAZ - 1 Hazardous Materials** will ensure impacts from the project remain less than significant.

SPR HAZ 1 – LEAD-CONTAMINATED SOILS

The lay down area around the lighthouse shall be accomplished by mowing existing vegetation (leaving root systems intact) where necessary to provide the adequate laydown area, install polyethylene sheeting across mowed vegetation and install road base on top of the sheeting. At the conclusion of the rehabilitation project, the road base and polyethylene shall be removed and disposed off-site.

Ground disturbance would also occur as part of the seismic upgrade retrofits for the Oil House. The retrofits entail excavation of footings inside the crawlspace of the Oil House. As the flooring has protected the ground from paint chip exposure over the years, it is not anticipated that lead contamination will be found and thus, no specific protection measures will be required for ground disturbance in this area.

- c, e, f) The project site is not located within a ¼ mile of a school, 2 miles of a public airport or in the vicinity of a private airstrip. No impact.
- g) All construction activities associated with the project would occur within the boundaries of Pigeon Point Light Station SHP and work would not restrict access to or block any public road outside the immediate construction area. No impact.
- h) No work would occur that would increase the risk of loss, injury or death from wildland fires. No impact.

IX. HYDROLOGY AND WATER QUALITY.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge, such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level that would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through alteration of the course of a stream or river, in a manner which would result in substantial on- or off-site erosion or siltation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in on- or off-site flooding?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Substantially degrade water quality?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Place housing within a 100-year flood hazard area, as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map, or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place structures that would impede or redirect flood flows within a 100-year flood hazard area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury, or death from flooding, including flooding resulting from the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Result in inundation by seiche, tsunami, or mudflow?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

- a-j) As proposed, the Pigeon Point Lighthouse Rehabilitation project will rehabilitate and stabilize the existing Lighthouse tower and the adjacent Oil House. The work proposes no new construction of structures or facilities and will not violate any water quality standards or waste discharge requirements; deplete groundwater supplies or interfere with

groundwater recharge; alter the existing drainage pattern of the site or substantially increase the rate or amount of on- or off-site erosion or flooding; create water runoff that would exceed the capacity of existing stormwater drainage; degrade water quality; place or expose structures or people to direct flood zones or; result in inundation by seiche, tsunami or mudflow. No impact.

X. LAND USE AND PLANNING.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with the applicable land use plan, policy, or regulation of any agency with jurisdiction over the project (including, but not limited to, a general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-c) Pigeon Point Light Station State Historic Park is not located within an established community; it is located within the boundaries of an established state park and is not in conflict with any applicable land use plan (including local coastal plan), policy or regulation adopted for the purpose of avoiding or mitigating an environmental effect. Additionally, it is not located with a habitat conservation plan area or natural community conservation plan. No impact.

XI. MINERAL RESOURCES.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Result in the loss of availability of a known mineral resource that is or would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-b)The proposed project will be rehabilitating and stabilizing two existing structures and will not result in the loss of availability of a known mineral resource or in the availability of a locally important mineral resource delineated on a local general plan, specific plan, or other land use plan. No impact.

XII. NOISE.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Generate or expose people to noise levels in excess of standards established in a local general plan or noise ordinance, or in other applicable local, state, or federal standards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Generate or expose people to excessive groundborne vibrations or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Create a substantial permanent increase in ambient noise levels in the vicinity of the project (above levels without the project)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Create a substantial temporary or periodic increase in ambient noise levels in the vicinity of the project, in excess of noise levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Be located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport? If so, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be in the vicinity of a private airstrip? If so, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

- a-c) The proposed project to rehabilitate and stabilize the Lighthouse tower and adjacent Oil House will take place in an area that is cordoned off from visitors. Some of the proposed project work will utilize hand and pneumatic tools which will produce noise levels up to 76Dba, however the increased noise levels will be temporary and will be of a short duration. As proposed the project will not expose people to noise levels in excess of standards established by local noise ordinances; generate or expose people to excessive groundborne vibrations or noise levels; create a substantial permanent increase in ambient noise levels. No impact.
- d) As stated above some of the proposed project work will utilize hand and pneumatic tools which will produce noise levels up to 76Dba, however the increased noise levels will be temporary and will be of a short duration. Less than Significant impact.
- e-f) Pigeon Point Light Station is not located within an airport land use plan, is not within two miles of a public airport or in the vicinity of a private airstrip. No impact.

XIII. POPULATION AND HOUSING.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-c) The project proposes rehabilitation and stabilization work on existing structures at Pigeon Point Light Station State Historic Park. There is no work proposed for the existing structures that serve as hostel housing for park visitors and there is no new construction proposed as part of this project, therefore the project will not induce substantial population growth, displace existing housing or displace people. No impact.

XIV. PUBLIC SERVICES.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Result in significant environmental impacts from construction associated with the provision of new or physically altered governmental facilities, or the need for new or physically altered governmental facilities, to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

- a) The proposed project will rehabilitate and stabilization the Lighthouse tower and Oil House at Pigeon Point Light Station. The project does not propose any construction work that would alter or cause need for additional governmental facilities or increased service ratios, response time, or other performance objectives for any public services. No impact.

XV. RECREATION.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Increase the use of existing neighborhood and regional parks or other recreational facilities, such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-b) As proposed the project will not result in the closure of Pigeon Point Light Station State Historic Park or the existing hostel operations and will therefore not cause a substantial increase in the use of existing neighborhood and regional parks or other recreational facilities. Additionally, the proposed project does not include recreational facilities or require the expansion of recreational facilities that might have an adverse physical effect on the environment. No impact.

XVI. TRANSPORTATION/TRAFFIC.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location, that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersection) or incompatible uses (e.g., farm equipment) that would substantially increase hazards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Result in inadequate parking capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DISCUSSION

a-g) The proposed project will rehabilitate and stabilize existing structures located in areas where vehicle traffic is limited and tightly controlled and the proposed work will not conflict with any applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system; conflict with applicable congestion management programs; result in changes to air traffic patterns or; increase hazards due to a design feature, or; conflict with adopted policies, plans, or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities. Additionally, the project will not result in inadequate emergency access or inadequate parking capacity. No impact.

XVII. UTILITIES AND SERVICE SYSTEMS.

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Exceed wastewater treatment restrictions or standards of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Would the construction of these facilities cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Would the construction of these facilities cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination, by the wastewater treatment provider that serves or may serve the project, that it has adequate capacity to service the project's anticipated demand, in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations as they relate to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Criteria for Determining Significance

a-g) As proposed, the Pigeon Point Lighthouse Rehabilitation Project will rehabilitate and seismically stabilize existing facilities and will not result in the generation of additional wastewater, the construction of new water or wastewater treatment facilities, the expansion of existing facilities, or the construction of new storm water drainage facilities. Waste will be disposed of in compliance with federal, state and local statutes and regulations. No impact.

CHAPTER 4
MANDATORY FINDINGS OF SIGNIFICANCE

	<u>POTENTIALLY SIGNIFICANT IMPACT</u>	<u>LESS THAN SIGNIFICANT WITH MITIGATION</u>	<u>LESS THAN SIGNIFICANT IMPACT</u>	<u>NO IMPACT</u>
WOULD THE PROJECT:				
a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Have the potential to eliminate important examples of the major periods of California history or prehistory?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means the incremental effects of a project are considerable when viewed in connection with the effects of past projects, other current projects, and probably future projects?)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Have environmental effects that will cause substantial adverse effects on humans, either directly or indirectly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DISCUSSION

a-d) The project entails the abatement of lead paint and rehabilitation of the historic Pigeon Point Light Station and Oil House in accordance with the Secretary of Interior Standards. The project will not have the ability to degrade the environment or eliminate important examples of California history or prehistory. The project will not have cumulative impacts and will not cause adverse impacts on humans directly or indirectly. Therefore, no impact would result.

CHAPTER 5
SUMMARY OF MITIGATION MEASURES

No mitigation measures are required for the Pigeon Point Light Station Rehabilitation Project.

CHAPTER 6
REPORT PREPARATION

California Department of Parks and Recreation

Northern Service Center

Monica Aleman

Brad Michalk

APPENDIX A

PROJECT PLANS

File: Z:\13_pj01\13075 pigeon point lighthouse rehabilitation\13_drawings\06_construction\01_100%_draft_construction_documents\gen\X-DPR Titleblock - Pigeon Point.dwg Layout: Model Date: February 09 2015 - 5:52 pm User: m.lovato

PROJECT ELEMENT 4 - REHABILITATION OF THE OIL HOUSE

- 42 A11-PE4 DEMOLITION PLANS
- 43 A21-PE4 FLOOR PLANS
- 44 A22-PE4 SCHEDULES
- 45 A31-PE4 ELEVATIONS
- 46 A32-PE4 ELEVATIONS
- 47 A51-PE4 INTERIOR ELEVATIONS
- 48 A61-PE4 REFLECTED CEILING PLAN
- 49 A81-PE4 ROOF DETAILS

- 50 S21-PE4 OIL HOUSE PLAN AT GROUND FLOOR AND ROOF
- 51 S22-PE4 OIL HOUSE CEILING PLAN
- 52 S31-PE4 OIL HOUSE SECTIONS
- 53 S41-PE4 STRENGTHENING DETAILS
- 54 S42-PE4 STRENGTHENING DETAILS

PROJECT ELEMENT 3 - REHABILITATION OF THE LOWER LIGHTHOUSE TOWER

- 35 A11-PE3 DEMOLITION PLANS
- 36 A21-PE3 FLOOR PLANS
- 37 A22-PE3 SCHEDULES
- 38 A31-PE3 ELEVATIONS
- 39 A32-PE3 ELEVATIONS AND BUILDING SECTION
- 40 A41-PE3 ENLARGED PLANS
- 41 A81-PE3 EXTERIOR DETAILS

PROJECT ELEMENT 2 - REHABILITATION OF THE UPPER LIGHTHOUSE TOWER

- 11 A11-PE2 DEMOLITION PLANS
- 12 A12-PE2 DEMOLITION REFLECTED CEILING PLANS
- 13 A21-PE2 FLOOR PLANS
- 14 A22-PE2 SCHEDULES
- 15 A31-PE2 ELEVATIONS
- 16 A32-PE2 ELEVATIONS AND SECTION
- 17 A41-PE2 ENLARGED PLANS
- 18 A61-PE2 REFLECTED CEILING PLANS
- 19 A81-PE2 WALL SECTIONS
- 20 A82-PE2 WALL SECTIONS
- 21 A83-PE2 WALL SECTIONS
- 22 A84-PE2 WALL SECTIONS
- 23 A85-PE2 DETAIL SECTIONS
- 24 A86-PE2 DETAIL SECTIONS
- 25 A87-PE2 ROOF DETAILS
- 26 A88-PE2 RAILING DETAILS
- 27 A89-PE2 DOOR DETAILS
- 28 A810-PE2 WINDOW DETAILS

- 29 S21-PE2 TOWER PLAN AT SERVICE ROOM WINDOWS
- 30 S22-PE2 TOWER PLAN AT GALLERY DECK / WATCH ROOM AND LANTERN ROOM

- 31 S41-PE2 SECTIONS
- 32 S43-PE2 STRENGTHENING DETAILS
- 33 S44-PE2 DETAILS
- 34 S45-PE2 BOND BEAM DETAILS

GENERAL

- 1 T1.0 PROJECT SUMMARY, PROJECT TEAM, INDEX, PROJECT LOCATION, CODES, GEN. NOTES, SYMBOLS, ABBREVI.
- 2 T1.1 DRAWING LIST
- 3 A0.1 SITE PLAN

- 4 S0.1 GENERAL NOTES
- 5 S0.2 GENERAL NOTES
- 6 S0.3 GENERAL NOTES
- 7 S0.4 ABBREVIATIONS, PLAN SYMBOLS AND REFERENCE SYMBOLS

- 8 S0.5 TYPICAL CONCRETE DETAILS
- 9 S2.0 OVERALL PLAN AT TOWER AND OIL HOUSE
- 10 S3.0 TOWER ELEVATIONS SOUTH AND EAST



ACQUISITION & DEVELOPMENT DIVISION
 One Capitol Mall
 Sacramento, CA
 95814-3229



Fig. 9, The Embarcadero - San Francisco, California
 4/14/11-1/16/12

CALIFORNIA STATE FIRE MARSHAL - APPROVED

Approval of this plan does not authorize or approve any omission of deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by _____ Date _____

DPR ACCESS COMPLIANCE REVIEW
 ACCESSIBILITY SECTION
 CERTIFICATION # _____

Reviewed by _____ Date _____

ACCESSIBILITY COMPLIANCE AND STATE FIRE MARSHAL SIGNED ORIGINALS ARE ON FILE AT THE DEPARTMENT OF PARKS AND RECREATION, NORTHERN SERVICE CENTER

DESIGNED: KV/KF
 DRAWN: ML
 CHECKED: KV
 DATE: 1/30/15

REVISIONS	
NO.	DATE

100% DRAFT
 CONSTRUCTION
 DOCUMENTS

 PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PIGEON POINT LIGHTHOUSE REHABILITATION

DRAWING LIST

DRAWING NO.
XXXX.001

SHEET NO.
T1.1
 02 OF 54

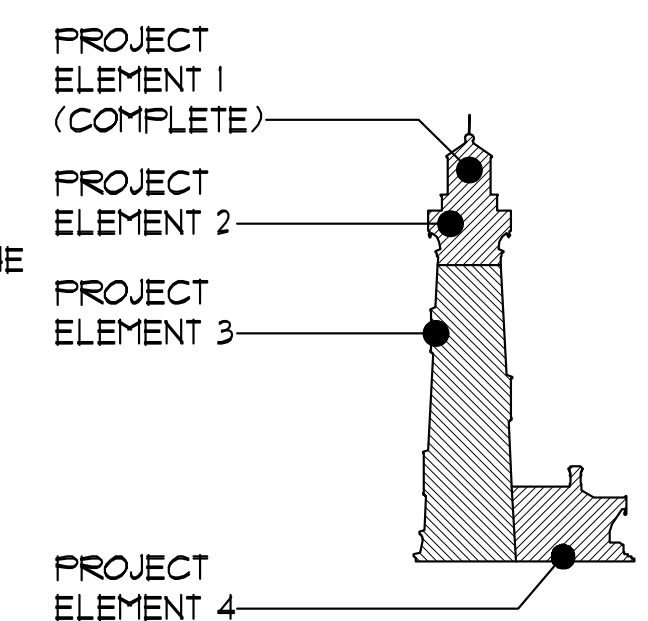
PROJECT KEY

PROJECT ELEMENT 1, THE RELOCATION OF THE FRESNEL LENS, HAS BEEN COMPLETED.

PROJECT ELEMENT 2 REHABILITATES THE UPPER TOWER, INCLUDING THE UPPER ROOF, LANTERN, AND GALLERY.

PROJECT ELEMENT 3 REHABILITATES THE LOWER PORTION OF THE TOWER.

PROJECT ELEMENT 4 REHABILITATES AND SEISMICALLY UPGRADES THE OIL HOUSE.



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SITE PLAN GENERAL NOTES

1. SEE GENERAL PROJECT NOTES ON SHEET T1.0.
2. PROTECT LANDSCAPE IN AREAS OUTSIDE CONTRACTOR WORK AND STAGING AREAS.
3. RESTORE GRADES DISTURBED BY CONSTRUCTION TO (E) CONDITION.

SITE PLAN KEYNOTES

- ① (E) FENCE TO REMAIN.
- ② PROVIDE (N) FENCE DURING CONSTRUCTION OPERATIONS.
- ③ DEMO (E) FENCE.
- ④ ACCESS TO STAGING AND WORK AREAS. CONTRACTOR TO COORDINATE USE OF ROAD BETWEEN STAGING AREA AND WORK AREA WITH STATE AND HOSTEL STAFF.



ACQUISITION & DEVELOPMENT DIVISION
One Capitol Mall
Sacramento, CA
95814-3229



CALIFORNIA STATE FIRE MARSHAL - APPROVED
Approval of this plan does not authorize or approve any omission of deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by _____ Date _____
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CERTIFICATION # _____
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DESIGNED: KV/KF
DRAWN: ML
CHECKED: KV
DATE: 1/30/15

REVISIONS	
NO.	DATE

100% DRAFT
CONSTRUCTION
DOCUMENTS

 PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PIGEON POINT LIGHTHOUSE REHABILITATION

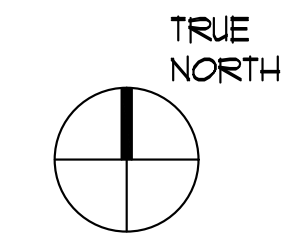
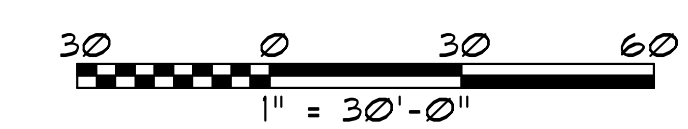
SITE PLAN

DRAWING NO.
XXXX.001

SHEET NO.
A0.1-PE2

03 OF 54

SITE PLAN
SCALE: 1" = 30'-0"
X-SITE PLANDWG



I GENERAL NOTES

- MATERIALS AND WORKMANSHIP TO CONFORM WITH THE 2013 EDITION OF THE CALIFORNIA HISTORICAL BUILDING CODE
- THESE GENERAL NOTES SUPPLEMENT THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE PLANS AND SPECIFICATIONS, CONTACT THE OWNER'S REPRESENTATIVE.
- REFERENCE TO CODES, RULES, REGULATIONS, STANDARDS, MANUFACTURER'S INSTRUCTIONS OR REQUIREMENTS OF REGULATORY AGENCIES IS TO THE LATEST PRINTED EDITION OF EACH IN EFFECT AT THE DATE OF SUBMISSION OF BID UNLESS THE DOCUMENT DATE IS SHOWN.
- DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, USE SIMILAR DETAILS OF CONSTRUCTION, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- DETAILS TITLED "TYPICAL" OR DETAILS ON SHEETS TITLED "TYPICAL DETAILS" APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. SUCH DETAILS ARE NOT NOTED AT EACH LOCATION THAT THEY OCCUR.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND FOR CHECKING DIMENSIONS. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES AND RESOLVE BEFORE PROCEEDING WITH THE WORK.
- DO NOT SCALE THE DRAWINGS.
- PROVIDE MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES INCLUDE, BUT MAY NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DURING CONSTRUCTION. RETAIN A REGISTERED CIVIL ENGINEER WHO IS PROPERLY QUALIFIED TO DESIGN BRACING, SHORING, ETC. VISITS TO THE SITE BY THE OWNER'S REPRESENTATIVE WILL NOT INCLUDE OBSERVATION OF THE ABOVE NOTED ITEMS.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- INFORMATION SHOWN ON THE DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE, BUT WITHOUT GUARANTEE OF ACCURACY. REPORT CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS TO THE OWNER'S REPRESENTATIVE. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE OWNER'S REPRESENTATIVE.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING A SAFE PLACE TO WORK AND MEETING THE REQUIREMENTS OF ALL APPLICABLE JURISDICTIONS. EXECUTE WORK TO ENSURE THE SAFETY OF PERSONS AND ADJACENT PROPERTY AGAINST DAMAGE BY FALLING DEBRIS AND OTHER HAZARDS IN CONNECTION WITH THIS WORK.

II REINFORCING STEEL

- REINFORCING TO CONFORM TO THE FOLLOWING, UNLESS OTHERWISE NOTED:

LOCATION	TYPE
REINFORCING STEEL	ASTM A276 TYPE 316
REINFORCING STEEL TO BE WELDED	ASTM A276 TYPE 316
SMOOTH STEEL WIRE FOR SPIRALS	ASTM A276 TYPE 316

- ACCURATELY POSITION, SUPPORT, AND SECURE REINFORCEMENT FROM DISPLACING DUE TO FORMWORK, CONSTRUCTION, OR CONCRETE PLACEMENT OPERATIONS. LOCATE AND SUPPORT REINFORCING BY METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS AT A MAXIMUM 3-FOOT SPACING.
- MECHANICAL COUPLERS:
- WELD REINFORCING STEEL IN ACCORDANCE WITH AWS D1.4 USING QUALIFIED WELDERS.
- TERMINATE REINFORCING STEEL IN STANDARD HOOKS, UNLESS OTHERWISE SHOWN.
- PROVIDE REINFORCING SHOWN OR NOTED CONTINUOUS IN LENGTHS AS LONG AS PRACTICAL.
- PROVIDE REINFORCING BAR DOWELS IN FOOTINGS, PILE CAPS AND OTHER SUPPORTING MEMBERS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING, U.O.N.

III CAST-IN-PLACE CONCRETE

- CONCRETE IS REINFORCED AND CAST IN PLACE UNLESS OTHERWISE NOTED. WHERE REINFORCING IS NOT SPECIFICALLY SHOWN OR WHERE DETAILS ARE NOT GIVEN, PROVIDE REINFORCING SIMILAR TO THAT SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE OWNER'S REPRESENTATIVE.
- ROUGHEN CONCRETE SURFACES OF CONSTRUCTION JOINTS TO ¼ INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES. LOCATE CONSTRUCTION JOINTS AS SHOWN ON THE DRAWINGS. SUBMIT ALTERNATE JOINT LOCATIONS OR JOINTS NOT SHOWN TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO PROCEEDING WITH THE WORK.
- AT LOCATIONS WHERE CONCRETE IS CAST AGAINST EXISTING CONCRETE OR MASONRY, ROUGHEN CONTACT SURFACES TO ¼ INCH AMPLITUDE AND CLEAN OF LAITANCE, FOREIGN MATTER, AND LOOSE PARTICLES.
- CONCRETE CLEAR COVER TO REINFORCING BARS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

LOCATIONS	CLEAR COVER
CONCRETE PLACED AGAINST EARTH FORMED SURFACES EXPOSED TO WEATHER OR IN CONTACT WITH EARTH:	3 INCHES
- #5 BARS AND SMALLER	1 1/2 INCHES
- #6 BARS AND LARGER	2 INCHES
SLABS ON GRADE (TOP CLEARANCE)	1 1/2 INCHES
BEAMS, GIRDERS AND COLUMNS NOT EXPOSED TO WEATHER OR EARTH	1 1/2 INCHES
WALL OR SLAB SURFACES NOT EXPOSED TO WEATHER OR EARTH:	
- #5 & SMALLER	3/4 INCH
- #6 & #7	1 INCH
- #8, #9, #10, #11	1 1/2 INCHES
- #14 & #18	2 1/2 INCHES

- CONCRETE TYPES:

CLASS	28 DAY F'c (PSI)	TYPE	LOCATION
A	4000	NORMAL WEIGHT	FOUNDATIONS, BOND BEAMS, MISC.

- CONTINUOUSLY MOIST CURE CONCRETE SLABS-ON-GRADE FOR 7 DAYS MINIMUM. WATER FOG SPRAYS, PONDING, SATURATED ABSORPTIVE COVERS, OR MOISTURE RETAINING COVERS MAY BE USED. CURING COMPOUNDS ARE NOT ACCEPTABLE.
- NON-SHRINK GROUT, 7000 PSI: EUCLID CHEMICAL COMPANY'S "EUCO-NS", L&M CRYSTEX, MASTER BUILDERS' "MASTERFLOW 713", OR FIVE STAR GROUT. WHERE HIGH FLUIDITY OR INCREASED PLACING TIME IS REQUIRED, USE EUCLID CHEMICAL COMPANY'S "EUCO HI-FLOW GROUT" OR MASTER BUILDERS' "MASTERFLOW 928".

IV STRUCTURAL STEEL

- STRUCTURAL STEEL TO CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

SECTION	TYPE
ROLLED SHAPES:	
-WIDE FLANGES AND WT	ASTM A36
-CHANNELS, ANGLES, & OTHER	ASTM A36
PLATES:	ASTM A36
COLD FORMED HOLLOW STRUCTURAL SECTION (HSS)	ASTM A500 GRADE B
BOLTS	ASTM A325X
MACHINE BOLTS / CONCRETE THRU BOLTS	ASTM A307
ANCHOR RODS	ASTM F1554 (GR. 36)
THREADED AND HANGER ROD	ASTM A572 (GR. 50)
WELDED SHEAR CONNECTORS	ASTM A108 (GR. 1015 THROUGH 1020)
NUTS FOR BOLTS AND MACHINE BOLTS	ASTM 563, A194 GR 2H
HARDENED WASHERS	ASTM F436
UNHARDENED WASHERS	ASTM F844
PLAIN WASHERS	ANSI B18.22.1
BEVELED WASHERS	ANSI B18.22.1
STAINLESS STEEL SHAPES, PLATES, CONNECTORS	ASTM A276 TYPE 316

- HOT DIP GALVANIZE STRUCTURAL STEEL AND FASTENERS THAT ARE PERMANENTLY EXPOSED TO THE WEATHER. REPAIR GALVANIZING AFTER WELDING.
- REFER TO ARCH. DRAWINGS FOR ELEMENTS TO BE DESIGNATED ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).
- ARC-WELDING ELECTRODES/FILLER METALS TO BE LOW HYDROGEN TYPES E7XTX, E7TXX OR E70XXX MINIMUM AS APPLICABLE.
- STAINLESS STEEL WELDING TO BE AWS E316 L-XX.
- WELDERS TO BE CERTIFIED BY AWS AND THE GOVERNING JURISDICTION.
- WHERE FIELD WELDING IS NOTED, THE DESIGNATION IS GIVEN AS A SUGGESTED CONSTRUCTION PROCEDURE ONLY.
- PROVIDE NATURAL CAMBER UP, UNLESS NOTED OTHERWISE, OPPOSITE AT CANTILEVERS.
- SPLICE MEMBERS ONLY WHERE INDICATED.

V. MECHANICAL ANCHORS

- EXPANSION ANCHORS INTO CONCRETE: HILTI KB-TZ (ICC-ES #ESR-1917) SIMPSON STRONG BOLT 2 (ICC-ESR 3037). INSTALL ANCHORS IN ACCORDANCE WITH THE LATEST ICC-ES REPORT.
- PROVIDE STAINLESS STEEL FASTENERS FOR EXTERIOR USE OR WHEN EXPOSED TO WEATHER.
- ALL POST-INSTALLED ANCHORS SHALL HAVE A CURRENT ICC-ES EVALUATION REPORT AND SHALL STATE THAT THE ANCHORS WERE TESTING IN ACCORDANCE WITH AC193, LATEST REVISION, ACCEPTANCE CRITERIA FOR MECHANICAL ANCHORS IN CONCRETE ELEMENTS, INCLUDING TESTS FOR MECHANICAL ANCHORS SUBJECTED TO WIND OR SEISMIC LOADS.
- INSPECT POST-INSTALLED ANCHOR INSTALLATION WITH A SPECIAL INSPECTOR SPECIFICALLY APPROVED BY THE ENFORCEMENT AGENCY FOR THAT PURPOSE.
- MINIMUM EMBEDMENT OF ANCHORS, UNLESS OTHERWISE NOTED:

ANCHOR DIA.	WEDGE OR SCREW EMBEDMENT
1/4"	2"
3/8"	2 1/2"
1/2"	2 1/2"

- TEST EXPANSION ANCHOR IN THE PRESENCE OF THE PROJECT INSPECTOR. TESTING SHALL OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
- TEST QUANTITY OF EXPANSION ANCHORS AS NOTED BELOW:

APPLICATION	QUANTITY
STRUCTURAL	100% OF BOLTS
NON-STRUCTURAL (EQUIP ANCHORAGE, ETC.)	50% OF BOLTS

- APPLY TEST LOAD BY ANY METHOD THAT WILL EFFECTIVELY TRANSMIT A MEASURED TENSION LOAD TO THE ANCHOR. ACCEPTABLE METHODS INCLUDE: HYDRAULIC JACK WITH UNCONFINED OR CONFINED TESTING, CALIBRATED SPRING LOADED DEVICES OR CALIBRATED TORQUE WRENCH FOR TORQUE-CONTROLLED EXPANSION ANCHORS. DO NOT TEST INTERNALLY THREADED SHELL-TYPE ANCHORS AND DISPLACEMENT-CONTROLLED ANCHORS (E.G., DROP-IN ANCHORS) AND SCREW ANCHORS USING A TORQUE WRENCH.
- TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.

- REACTION LOADS FROM TEST FIXTURES MAY BE APPLIED CLOSE TO THE ANCHOR BEING TESTED. PROVIDED THE ANCHOR IS NOT RESTRAINED FROM WITHDRAWING BY A BASEPLATE OR OTHER FIXTURE. IF RESTRAINT IS FOUND, LOOSEN AND SHIM OR REMOVE THE FIXTURE PRIOR TO TESTING.
- THE FOLLOWING CRITERIA APPLY FOR THE TESTING AND ACCEPTANCE OF INSTALLED ANCHORS:
 - HYDRAULIC RAM METHOD: APPLY PROOF TEST LOAD WITHOUT REMOVING THE NUT. IF IT IS NOT POSSIBLE TO TEST WITH THE NUT INSTALLED, REPLACE THE NUT WITH A THREADED COUPLER TO THE SAME TORQUE MEASURED WITH A TORQUE WRENCH, AND THEN APPLY THE LOAD. ANCHOR IS ACCEPTABLE IF NO MOVEMENT IS OBSERVED AT THE TEST LOAD. MOVEMENT MAY BE DETERMINED WHEN THE WASHER UNDER THE NUT BECOMES LOOSE.
 - TORQUE WRENCH METHOD: TEST ANCHORS TO THE TORQUE LOAD INDICATED IN THE TABLE BELOW WITHIN THE FOLLOWING LIMITS:
- IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE, INSTALLED BY THE SAME TRADE, NOT PREVIOUSLY TESTED UNTIL TWENTY (20) CONSECUTIVE PASS, THEN RESUME INITIAL TESTING FREQUENCY. ABANDON HOLES DRILLED FOR ANCHORS THAT DO NOT PROPERLY SET OR THAT FAIL A TENSION TEST. FILL WITH NON-SHRINK GROUT.

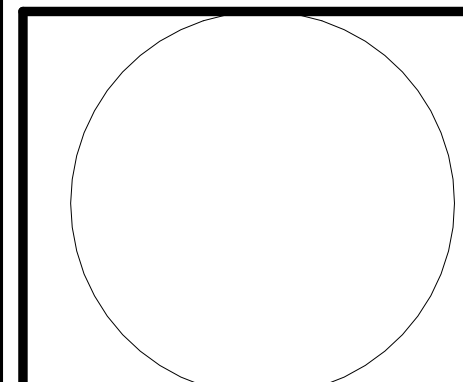
TEST LOADS
HARDROCK OR LIGHTWEIGHT CONCRETE (CRACKED CONDITION)

ANCHOR DIA. (SIZE)	TORQUE (FT-LBS.)
1/4"	10
3/8"	25
1/2"	50
5/8"	80
3/4"	150

- LOCATE REINFORCEMENT PRIOR TO DRILLING. IF THE ANCHOR CANNOT BE SHIFTED TO AVOID REBAR OR EXISTING ELEMENTS, THE STRUCTURAL ENGINEER OF RECORD WILL DETERMINE A NEW LOCATION OR AUTHORIZE AN ALTERNATE PROCEDURE.



ACQUISITION & DEVELOPMENT DIVISION
One Capitol Mall
Sacramento, CA
95814-3229



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DRAWN:	MSA
CHECKED:	
DATE:	12-18-2014

REVISIONS	
DATE	
5/22/2014	50% CD
1/30/2015	100% DRAFT CD

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PIGEON POINT LIGHTHOUSE REHABILITATION
GENERAL NOTES

DRAWING NO.
XXXX.

SHEET NO.

S0.1

4 OF 54

VI. ADHESIVE ANCHORS AND DOWELS

1. ANCHORS INSTALLED INTO CONCRETE: HILTI HIT RE-500-SD (ICC #ESR-2322). ANCHORS INSTALLED INTO MASONRY: HILTI HIT HY70 (ICC #ESR-3342). EMBEDMENT DEPTH FOR ANCHORS IS AS FOLLOWS, UNLESS OTHERWISE NOTED:

ROD DIA. OR BAR SIZE	EMBEDMENT	TENSION LOAD	BASE MATERIAL
3/4"	8"		BRICK MASONRY
3/4"	8"		CONCRETE

2. ANCHORS SHALL BE STAINLESS STEEL THREADED RODS WITH STAINLESS STEEL NUTS AND STAINLESS STEEL WASHERS, UNLESS OTHERWISE NOTED.
3. PLACE ADHESIVE WITH THE MANUFACTURER'S RECOMMENDED APPLICATION TOOL TO A DEPTH AS SPECIFIED BY THE MANUFACTURER AND TO MINIMIZE THE AMOUNT OF ADHESIVE THAT WILL OVERFLOW OUT OF THE HOLE WHEN THE BAR IS INSERTED. REMOVE EXCESS ADHESIVE ON THE ADJACENT SURFACES. REMOVE GREASE, OIL, RUST, AND OTHER LAITANCE FROM RODS AND DOWELS PRIOR TO INSTALLATION.
4. INSERT THE ANCHOR OR DOWEL IN THE HOLE WITH A TWISTING MOTION TO THE REQUIRED EMBEDMENT DEPTH. DO NOT PUMP THE ANCHOR OR DOWEL IN AND OUT OF THE HOLE.
5. WEDGE BARS TIGHT AND CENTERED IN THE HOLE WITH WOODEN WEDGES (GOLF TEES) TO HOLD IT IN PLACE UNTIL THE ADHESIVE SETS.
6. LOCATE EXISTING COMPONENTS IN MASONRY AND CONCRETE PRIOR TO DRILLING. THESE COMPONENTS INCLUDE BUT ARE NOT LIMITED TO STEEL REINFORCING, CAST IRON BRACKETS, CAST IRON BRACKET TIES, AND OTHER EXISTING CAST IRON PIECES. DO NOT CUT EXISTING COMPONENTS. IF THE ANCHOR OR DOWEL MAY NOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW LOCATION.
7. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES, MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH ADHESIVE ANCHORS.
8. WHERE A CHEMICALLY RESISTANT COATING SYSTEM (CRC) AND/OR A CAULKING SEALANT NEEDS TO BE REPAIRED OR INSTALLED, HAVE CRC INSTALLER OR MANUFACTURE INSPECT TO DETERMINE (E) TYPE OF COATING. PROVIDE SHOP DRAWINGS & PRODUCT DATA FOR PROJECT SPECIFIC APPLICATION. INSTALL EACH PER EACH MANUFACTURER'S REQUIREMENTS.
10. 25% OF THE FIRST 100 ANCHORS OF EACH TYPE AND SIZE USED SHALL BE PROOF TESTED BY THE OWNER'S TESTING AND INSPECTION AGENCY. ANCHORS THAT FAIL SHALL BE REPLACED AND RE-TESTED AT THE CONTRACTOR'S EXPENSE. IF MORE THAN 10% OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED LOAD, THE ENGINEER RESERVES THE OPTION TO INSTRUCT THE TESTING AND INSPECTION AGENCY TO TEST 100% OF THE ANCHORS NOT ORIGINALLY TESTED AT THE CONTRACTOR'S EXPENSE. IF MORE THAN 5% BUT LESS THAN 10% OF THE TESTED ANCHORS FAIL, THE TESTING AND INSPECTION AGENCY SHALL CONTINUE TO TEST 25% OF THE NEXT 100 ANCHORS UNTIL LESS THAN 5% FAIL. IF LESS THAN 5% OF THE TESTED ANCHORS FAIL, THE TESTING LABORATORY SHALL TEST 10% OF THE REMAINING ANCHORS PROVIDED THE FAILURE RATE REMAINS LESS THAN OR EQUAL TO 1 FOR EACH 20 TESTED.

VII. ROUGH CARPENTRY

1. FRAMING LUMBER: DOUGLAS FIR (COAST REGION) GRADED AND MARKED IN ACCORDANCE WITH THE STANDARD GRADING RULES NO. 17 OF THE WEST COAST LUMBER INSPECTION BUREAU (W.C.L.I.B.) OR WESTERN LUMBER GRADING RULES, OF THE WESTERN WOOD PRODUCT ASSOCIATION (W.W.P.A.). USE LUMBER OF THE FOLLOWING GRADES:

MEMBER SILLS	MOISTURE CONTENT	WOOD/GRADE
SLEEPERS AND BLKG ABOVE ROOF	19%	D.F. #1 PRESSURE OR PRESERVATIVE TREATED OR FOUNDATION GRADE REDWOOD
STUDS	19%	D.F. #2
JOISTS, PLANKS AND PLATES	15%	D.F. #1
BEAMS, 5" & WIDER	GREEN	D.F. SELECT STRUCTURAL
BEAMS, 4" & NARROWER	GREEN	D.F. #1
POSTS, 6x6 & LARGER	GREEN	D.F. SELECT STRUCTURAL
POSTS, 4x6 & SMALLER	19%	D.F. #1
FRAMING BLOCKING & BRIDGING	15%	D.F. #2
PLYWOOD BLOCKING	19%	D.F. #1
BACKING	19%	CONSTRUCTION
STRIPPING AND FURRING		

2. PANEL SHEATHING: IDENTIFY WOOD STRUCTURAL PANELS WITH THE APPROPRIATE TRADEMARK OF APA-THE ENGINEERED WOOD ASSOCIATION AND MEET THE REQUIREMENTS OF THE VOLUNTARY PRODUCT STANDARD PS-1 OR PS-2 AND APA PRP-108 PERFORMANCE STANDARD.
- A. PANEL SHEATHING TO BE EXPOSURE 1.
- B. PLYWOOD PANELS TO BE 5-PLY MINIMUM, EXCEPT 3/8" PANELS TO BE 3-PLY MINIMUM.
- C. PLYWOOD TO BE CC GRADE AT LOCATIONS EXPOSED TO WEATHER; CD GRADE ELSEWHERE.

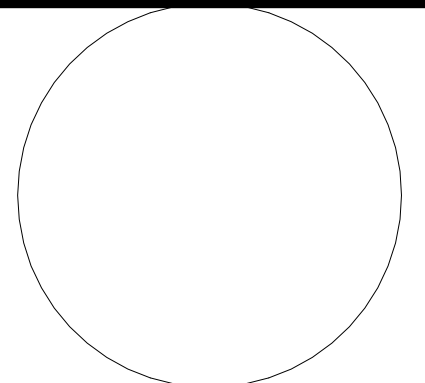
3. ROUGH HARDWARE:
- A. NAILS: COMMON WIRE NAILS, FEDERAL SPECIFICATION FF-N-105B, STANDARD LENGTHS U.O.N. USE HOT-DIPPED ZINC-COATED GALVANIZED NAILS FOR EXTERIOR INSTALLATIONS AND WHEN PENETRATING PRESSURE TREATED OR FIRE-RETARDANT LUMBER.
- B. BOLTS AND THREADED RODS: ASTM A307, SQUARE OR HEXAGONAL HEAD MACHINE BOLTS WITH ASTM A563 NUTS. USE MALLEABLE IRON WASHERS UNDER HEAD AND NUT WHEN IN CONTACT WITH WOOD. AT SLL PLATES USE 3"x3"x0.229" MINIMUM PLATE WASHERS.
- C. LAG SCREWS: ASTM A307, ANSI/ASME STANDARD B18.2.1. USE ANSI B18.22.1 WASHERS UNDER HEAD WHEN IN CONTACT WITH WOOD.
- D. SCREWS: ASTM A307, ANSI/ASME STANDARD B18.6.1. USE CADMIUM-PLATED PAN OR ROUND HEADED SCREWS AT STEEL TO WOOD AND WOOD TO WOOD CONNECTIONS.
- E. MISCELLANEOUS STEEL: ASTM A36. WHERE NOT EXPOSED TO WEATHER, STAINLESS STEEL S316 WHERE EXPOSED TO WEATHER.
- F. BOLTS, NUTS, WASHERS, STRAPS AND OTHER HARDWARE EXPOSED TO THE WEATHER TO BE STAINLESS STEEL.
- G. FRAMING CLIPS, SHEET METAL STRAPS, ETC. TO BE STAINLESS STEEL. DESIGNATIONS ON DRAWINGS ARE BASED ON SIMPSON CATALOGUE NUMBERS.

NAILING:

- A. DRIVE NAILS PERPENDICULAR TO THE GRAIN, U.O.N.
- B. PREDRILL HOLES TO 3/4 OF NAIL DIAMETER WHERE SPECIFIED AND WHEN WOOD TENDS TO SPLIT.
- C. AIR-DRIVEN NAILS TO BE FULL-HEADED NAILS. DO NOT OVERDRIVE NAILS.
- D. PANEL SHEATHING:
- AT FLOOR AND ROOF SHEATHING, USE RING SHANK NAILS. USE SMOOTH SHANK NAILS AT WALLS.
 - USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOB SITE DEMONSTRATION FOR EACH PROJECT AND APPROVAL BY THE OWNER'S REPRESENTATIVE. NAILHEADS THAT PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HAMMER OR IF THE MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED THE INSTALLATION IS UNSATISFACTORY. MACHINE NAILING IS NOT APPROVED IN 5/16" OR LESS SHEATHING.
 - GLUE FLOOR SHEATHING AT ALL POINTS OF CONTACT.
- E. PROVIDE MINIMUM NAILING PER TABLE 2304.9.1 OF THE 2010 CBC, U.O.N.
- A. DRILL BOLT HOLES A MAXIMUM OF 1/16 INCH LARGER IN DIAMETER THAN THE BOLT NOMINAL DIAMETER.
- B. DRILL PRE-BORED LEAD HOLES FOR WOOD SCREWS AS FOLLOWS.
- DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT 7/8 THE DIAMETER OF THE WOOD SCREW.
 - EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE SCREW WITH A DRILL BIT WHOSE DIAMETER IS 7/8 THE DIAMETER OF THE SCREW AT THE ROOT OF THE THREAD.
 - INSERT THE SCREW INTO LEAD HOLE BY TURNING. DO NOT DRIVE WITH A HAMMER.
 - LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.
- C. DRILL PRE-BORED LEAD HOLES FOR LAG SCREWS AS FOLLOWS.
- DRILL LEAD HOLE FOR THE SHANK TO A DEPTH EQUAL TO THE LENGTH OF THE UNTHREADED PORTION IN THE MAIN MEMBER. USE A DRILL BIT OF THE SAME DIAMETER AS THE LAG SCREW.
 - EXTEND THE LEAD HOLE FOR THE THREADED PORTION OF THE LAG SCREW WITH A DRILL BIT WHOSE DIAMETER IS 60 PERCENT OF THE NOMINAL LAG SCREW DIAMETER.
 - LUBRICATE WITH SOAP OR BEESWAX TO FACILITATE INSTALLATION.



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DRAWN:	MSA
CHECKED:	
DATE:	12-18-2014

REVISIONS	
NO.	DATE
50% CD	5/22/2014
100% DRAFT CD	1/30/2015

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PIGEON POINT LIGHTHOUSE REHABILITATION
GENERAL NOTES

DRAWING NO. XXXX.

SHEET NO. S0.2
5 OF 54

II. STRUCTURAL TESTS, INSPECTIONS, AND OBSERVATIONS

1. AN INDEPENDENT TESTING AGENCY AND SPECIAL INSPECTORS WILL BE RETAINED BY THE OWNER TO PERFORM THE TESTS AND INSPECTION LIST BELOW. PROVIDE ACCESS AND FURNISH SAMPLES TO THE AGENCY AS REQUIRED BY THE CONTRACT DOCUMENTS.
2. IF INITIAL TESTS OR INSPECTIONS MADE BY THE OWNER'S TESTING AGENCY REVEAL THAT ANY PORTION OF THE WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, ADDITIONAL TESTS, INSPECTIONS, AND NECESSARY REPAIRS WILL BE MADE AT THE CONTRACTOR'S EXPENSE.
3. THE FOLLOWING ITEMS REQUIRE TESTS AND INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHAPTER 17 "STRUCTURAL TESTS AND INSPECTIONS" OF THE CODE OF THE GOVERNING JURISDICTION AS NOTED IN THE GENERAL SECTION OF THESE GENERAL NOTES. ADDITIONAL ITEMS AND REQUIREMENTS FOR TESTS AND INSPECTIONS ARE IDENTIFIED IN THE SPECIFICATIONS.

STRUCTURAL STEEL									
✓	REVIEW MILL CERTIFICATE & TEST REPORTS								
✓	REVIEW WELDING PROCEDURE SPECIFICATION & WELDER CERTIFICATION								
✓	SAMPLE & TEST SECTIONS		AS SPECIFIED	✓		AS REQUIRED			
✓	SAMPLE & TEST HIGH-STRENGTH BOLTS & WASHERS								
✓	SHOP MATERIAL IDENTIFICATION								
✓	FIELD ERECTION INSPECTION								
✓	FABRICATION INSPECTION		✓	SHOP	✓	FIELD			
✓	WELDING INSPECTION		✓	SHOP	✓	FIELD			
✓	NON-DESTRUCTIVE WELD TEST		✓	SHOP	✓	FIELD			
✓	BOLTING INSPECTION		✓	SHOP	✓	FIELD			
✓	COMPOSITE STUD INSPECTION & TESTING								
METAL DECK									
✓	REVIEW MILL CERTIFICATE & TEST REPORTS								
✓	PLACEMENT INSPECTION								
✓	WELDING & FASTENING INSPECTION								
REINFORCING STEEL									
✓	REVIEW MILL CERTIFICATE & TEST REPORTS								
✓	SAMPLE & TEST	✓	REINFORCING BARS			WELDED WIRE FABRIC			
✓	PLACEMENT INSPECTION								
✓	WELDING INSPECTION								
MASONRY									
✓	REVIEW MILL CERTIFICATE & TEST REPORTS								
✓	SAMPLE & TEST								
✓	PLACEMENT INSPECTIONS OF UNITS								
✓	CORE TEST								
EARTHWORK/FOUNDATION									
✓	REVIEW OF IMPORT MATERIAL TEST REPORTS								
✓	ACCEPTANCE TESTS OF MATERIALS								
✓	PLACEMENT & EXCAVATION	INSPECTION		CONTINUOUS	✓	AS ORDERED			
✓	COMPACTION TEST								
	BEARING CAPACITY TEST								
✓	PIER & CAISSON DRILLING INSPECTION								
MISCELLANEOUS									
✓	DRILLED-IN CONCRETE ANCHORS								
✓	EPOXY OR GROUTED DOWELS								
✓	BOLTS CAST IN CONCRETE								
CONCRETE & GROUT									
CONCRETE	GROUT								
✓		AGGREGATE TESTS							
		CEMENT TEST							
✓		MIX DESIGN REVIEW							
		CONTINUOUS BATCH PLANT INSPECTION							
		BATCH PLANT INSPECTIONS							
✓		CAST, PICK-UP, AND COMPRESSION TEST SAMPLES							
✓		SLUMP, ENTRAINED AIR, & TEMPERATURE TEST							
✓		SHRINKAGE TEST (SLAB ON GRADE)							
✓		PLACEMENT INSPECTION							
		CORE & TEST							

4. NOTIFY THE ENGINEER AT SIGNIFICANT CONSTRUCTION STAGES 72 HOURS IN ADVANCE AND PROVIDE ACCESS FOR THE FOLLOWING STRUCTURAL OBSERVATIONS:

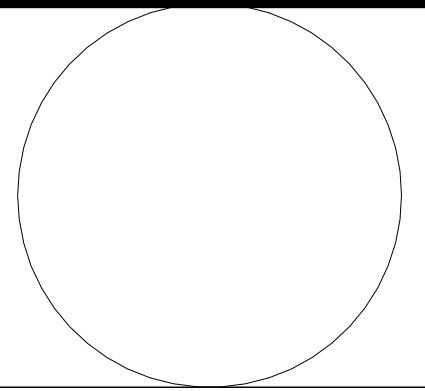
- A. STEEL FRAMING
- B. WOOD FRAMING
- C. CONCRETE
 1. REINFORCEMENT.

IX. SEISMIC DESIGN CRITERIA

1. APPLICABLE CODE: 2013 CALIFORNIA HISTORICAL BUILDING CODE.
2. SEISMIC DESIGN:
 BASE SHEAR $V = 0.137 W$
 WHERE:
 $V = (0.75) ZIC/RW$ PER CALIFORNIA HISTORIC BLDG. CODE
 $Rw = 6$ FOR MASONRY
 $C = 2.75$
 $Z = 0.4$
 $I = 1.0$
3. DESIGN TEAM:
 LORING WYLLIE PROJECT MANAGER
 LUCIE FOUNGNER ASSOCIATE
 MUSTAFA AMIN SENIOR CAD SPECIALIST



ACQUISITION & DEVELOPMENT DIVISION
 One Capitol Mall
 Sacramento, CA
 95814-3229



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 CHECKED:
 DATE: 12-18-2014

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NO.	DATE
1	50% CD 5/22/2014
2	100% DRAFT CD 1/30/2015

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PIGEON POINT LIGHTHOUSE REHABILITATION
 GENERAL NOTES

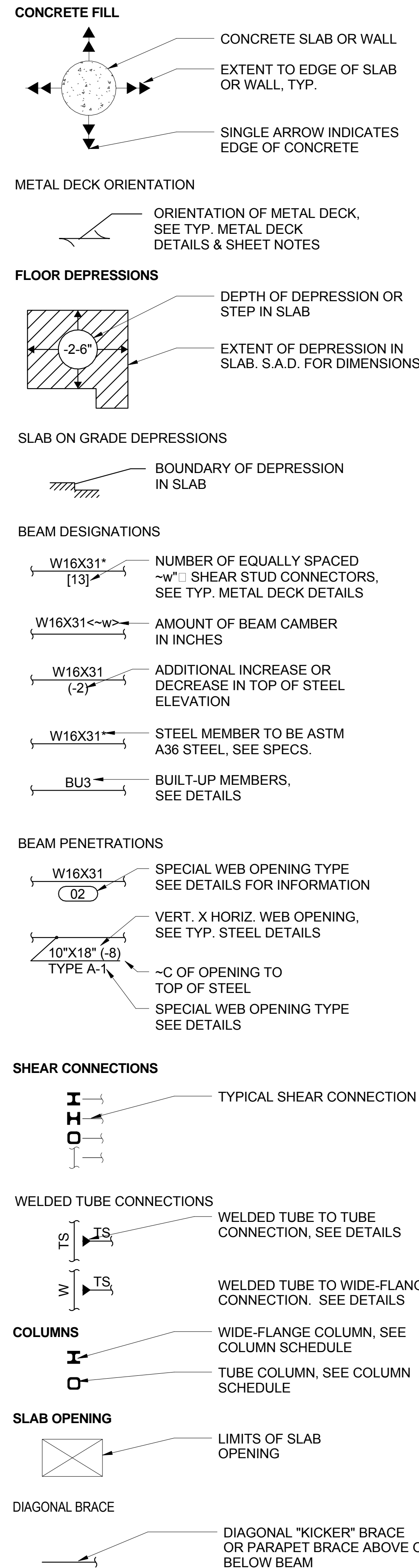
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SHEET NO.
S0.3
 6 OF 54

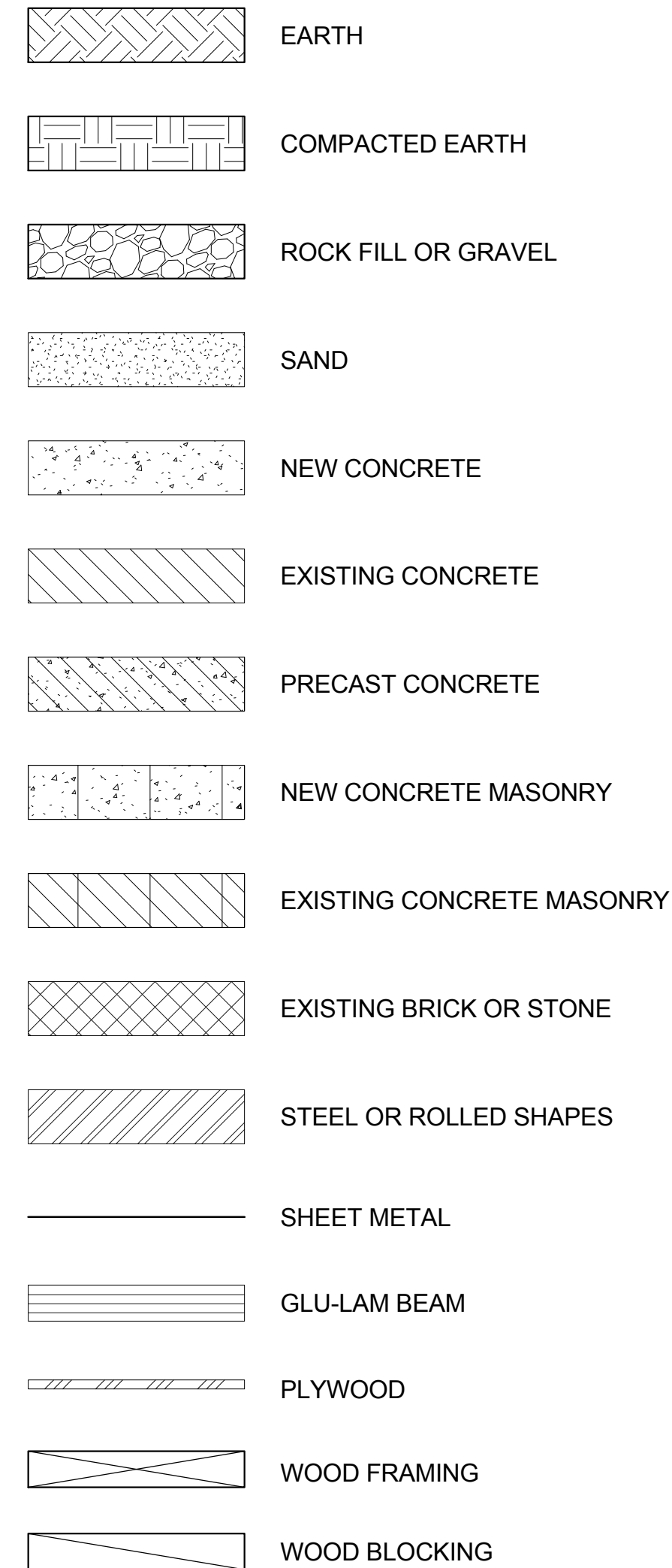
ABBREVIATIONS

(E)	EXISTING	GA.	GAUGE	REQD	REQUIRED
(N)	NEW	GALV.	GALVANIZED	REV.	REVISE or REVISION
&	AND	GL.	GLASS or GLAZING	RFG	ROOFING
@	AT	GLB	GLU-LAM BEAM	RSJ	ROLLED STEEL JOIST
A.A.	ADHESIVE ANCHOR	GRND	GROUND	S.A.D.	SEE ARCH. DOCUMENTS
A.B.	ANCHOR BOLT	GR.	GRADE	SCHED.	SCHEDULE
ABV	ABOVE	GYP. BD.	GYPSUM BOARD	SECT.	SECTION
ADDL	ADDITIONAL	H.D.G.	HOT DIPPED GALVANIZED	SEOR	STRUCTURAL ENGINEER OF RECORD
ADJ.	ADJACENT	HDR	HEADER		
AGGR.	AGGREGATE	H.P.	HIGH POINT	SHT	SHEET
AL.	ALUMINUM	HSB	HIGH STRENGTH BOLTS	SHTG	SHEATHING
ALT.	ALTERNATE	HT	HEIGHT	SIM.	SIMILAR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	H.D.	HOLD-DOWN	SL.	SLOPE
		HSS	HOLLOW STRUCTURAL STEEL	SMS	SHEET METAL SCREW
APPROX.	APPROXIMATE			S.O.G.	SLAB ON GRADE
ARCH.	ARCHITECTURAL	HK, HKS	HOOK, HOOKS	SPEC.	SPECIFICATION, SPECIFICATIONS
ASTM	AMERICAN SOCIETY for TESTING and MATERIALS	HORIZ., (H)	HORIZONTAL	SQ.	SQUARE
		I.D.	INSIDE DIAMETER	SS	STAINLESS STEEL
A.C.	ASPHALT CONCRETE	INFO.	INFORMATION	STAGG.	STAGGER or STAGGERED
AWG	AMERICAN WIRE GAUGE	JST, JSTS	JOIST, JOISTS	STD	STANDARD
BET.	BETWEEN	JT	JOINT	STIFF.	STIFFENER
BLDG	BUILDING	K.O.	KNOCK-OUT	STIR.	STIRRUP or STIRRUPS
BLKG	BLOCKING	L	ANGLE	STL	STEEL
BM, BMS	BEAM, BEAMS	ld	DEVELOPMENT LENGTH	STRUC.	STRUCTURAL
B.N.	BOUNDARY NAILING	ldb	HOOK DEVELOPMENT LENGTH	SUBST.	SUBSTITUTE
B.O.F.	BOTTOM OF FOOTING	LEV.	LEVEL	SUSP.	SUSPENDED
BOT.	BOTTOM	LLBB	LONG LEG BACK TO BACK	SYM.	SYMMETRICAL
BRG	BEARING	LLH	LONG LEG HORIZONTAL	T&B	TOP AND BOTTOM
BSMT	BASEMENT	LLV	LONG LEG VERTICAL	T&G	TONGUE AND GROOVE
B.S.	BOTH SIDES	LOC.	LOCATION	THK	THICK
C	CHANNEL	LONGIT.	LONGITUDINAL	THRD	THREADED
C.I.P.	CENTERLINE	L.P.	LOW POINT	THRU	THROUGH
C.J.	CAST IN PLACE	L.P.	LAP SPLICE LENGTH	T.O.	TOP OF
CLG	CEILING	ts	LIGHT	T.O.CONC.	TOP OF CONCRETE
CLR	CLEAR	LT	LIGHTWEIGHT CONCRETE	T.O.STL	TOP OF STEEL
CMU	CONCRETE MASONRY UNIT	LWC	LIGHTWEIGHT CONCRETE	T.O.SLAB	TOP OF STRUCTURAL SLAB
COL.	COLUMN	MAX	MAXIMUM	TR.	TREAD
CONC.	CONCRETE	M.B.	MACHINE BOLT	TS	TUBE STEEL
CONN.	CONNECTION	MEZZ.	MEZZANINE	TYP.	TYPICAL
CONSTR.	CONSTRUCTION	MECH.	MECHANICAL	U.O.N.	UNLESS OTHERWISE NOTED
CONT.	CONTINUOUS	M.E.P.	MECHANICAL, ELECTRICAL, PLUMBING DOCUMENTS	URM	UNREINFORCED MASONRY
CSK	COUNTERSINK			VERT., (V)	VERTICAL
CJP	COMPLETE JOINT PENETRATION	MTL	METAL	V.I.F.	VERIFY IN FIELD
CTR	CENTER	MFR	MANUFACTURER	W or WF	WIDE FLANGE
d	PENNY (NAIL SIZE)	MIN.	MINIMUM	W/	WITH
DBL.	DOUBLE	MISC.	MISCELLANEOUS	W/O	WITHOUT
DK, DKG	DECK or DECKING	MTD.	MOUNTED	WD	WOOD
DEMO.	DEMOLITION	N	NORTH	W.P.	WORK POINT
DET., DETS	DETAIL, DETAILS	N.F.	NEAR FACE	WT	WEIGHT
DIAG.	DIAGONAL	N.I.C.	NOT IN CONTRACT	WWM	WELDED WIRE MESH
DIA. or □	DIAMETER	N.S.	NEAR SIDE	X HVY.	EXTRA HEAVY
DIM., DIMS	DIMENSION, DIMENSIONS	N.T.S.	NOT TO SCALE	XX HVY.	DOUBLE EXTRA HVY.
DIST.	DISTANCE	NO. or #	NUMBER	X STR.	EXTRA STRONG
DN	DOWN	NOM.	NOMINAL (DIAMETER)		
DO	DITTO	NWC	NORMAL WEIGHT CONCRETE		
DWL, DWLS	DOWEL, DOWELS	O.C.	ON CENTER		
DWG, DWGS	DRAWING, DRAWINGS	O.D.	OUTSIDE DIAMETER (DIM)		
EA.	EACH	O.H.	OPPOSITE HAND		
E.A.	EXPANSION ANCHOR	OPNG	OPENING		
E.F.	EACH FACE	OPP.	OPPOSITE		
E.S.	EACH SIDE	PL	PLATE		
E.W.	EACH WAY	PC., PCS.	PIECE, PIECES		
ELEC.	ELECTRICAL	PERP.	PERPENDICULAR		
EL.	ELEVATION	PLYWD	PLYWOOD		
ELEV.	ELEVATOR	PP	PARTIAL PENETRATION		
EMBED.	EMBEDMENT	PR	PAIR		
E.N.	EDGE NAILING	PT	POINT		
E.O.S.	EDGE OF SLAB	PTN	PARTITION		
EQ.	EQUAL	R.O.	ROUGH OPENING		
EQUIP.	EQUIPMENT	R or RAD.	RADIUS		
E.J.	EXPANSION JOINT	REBAR	REINFORCING BAR		
EV.	EVERY	REF.	REFERENCE		
EXCAV.	EXCAVATION	REINF.	REINFORCED or REINFORCING		
EXP.	EXPANSION				
EXT.	EXTERIOR				
F.F.	FAR FACE				
FDN	FOUNDATION				
FIN.	FINISH				
FLR, FLRS	FLOOR, FLOORS				
F.N.	FIELD NAILING				
F.O.	FACE OF				
F.O.C.	FACE OF CONCRETE				
F.O.S.	FACE OF STUDS				
FP.	FIREPROOFING				
F.S.	FAR SIDE				
FT	FOOT or FEET				
FTG, FTGS	FOOTING, FOOTINGS				

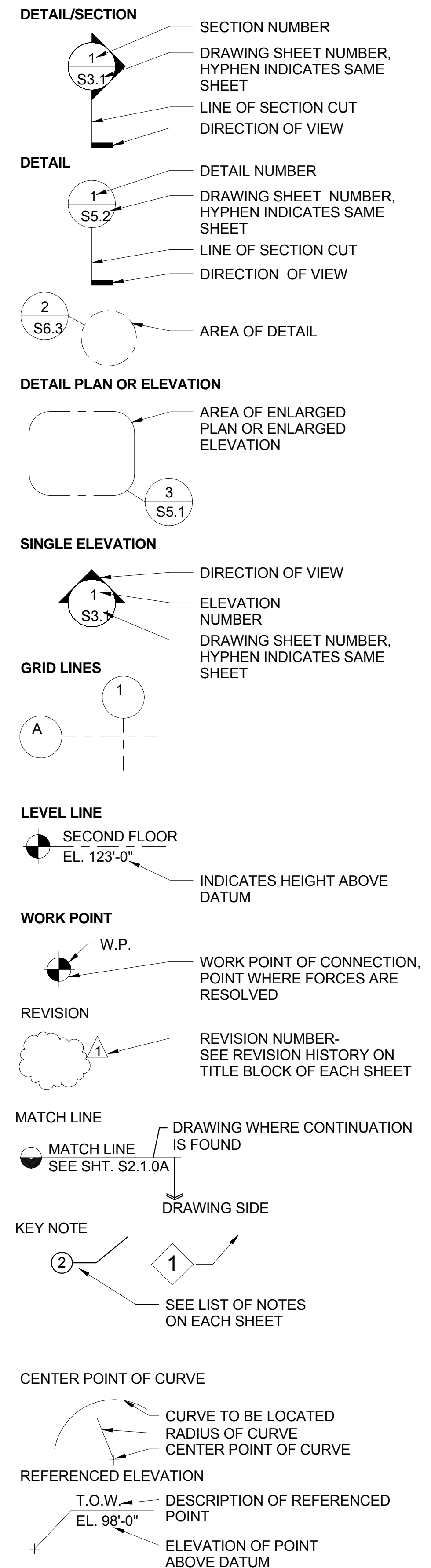
PLAN SYMBOLS



MATERIAL SYMBOLS



REFERENCE SYMBOLS



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95814-3229

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DESIGNED:	LF
DRAWN:	MSA
CHECKED:	
DATE:	12-18-2014

REVISIONS	
NO.	DATE
50% CD	5/22/2014
100% DRAFT CD	1/30/2015

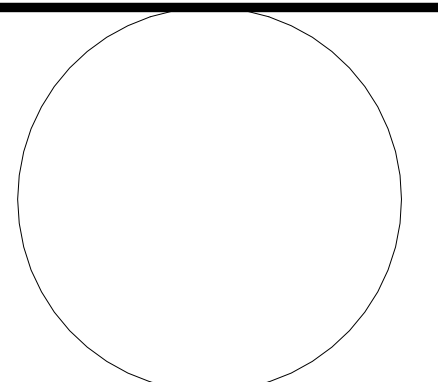
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PIGEON POINT LIGHTHOUSE REHABILITATION
ABBREVIATIONS, PLAN SYMBOLS AND REFERENCE SYMBOLS

DRAWING NO. XXXX.

SHEET NO. **S0.4**
7 OF 54



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DATE: 12-18-2014

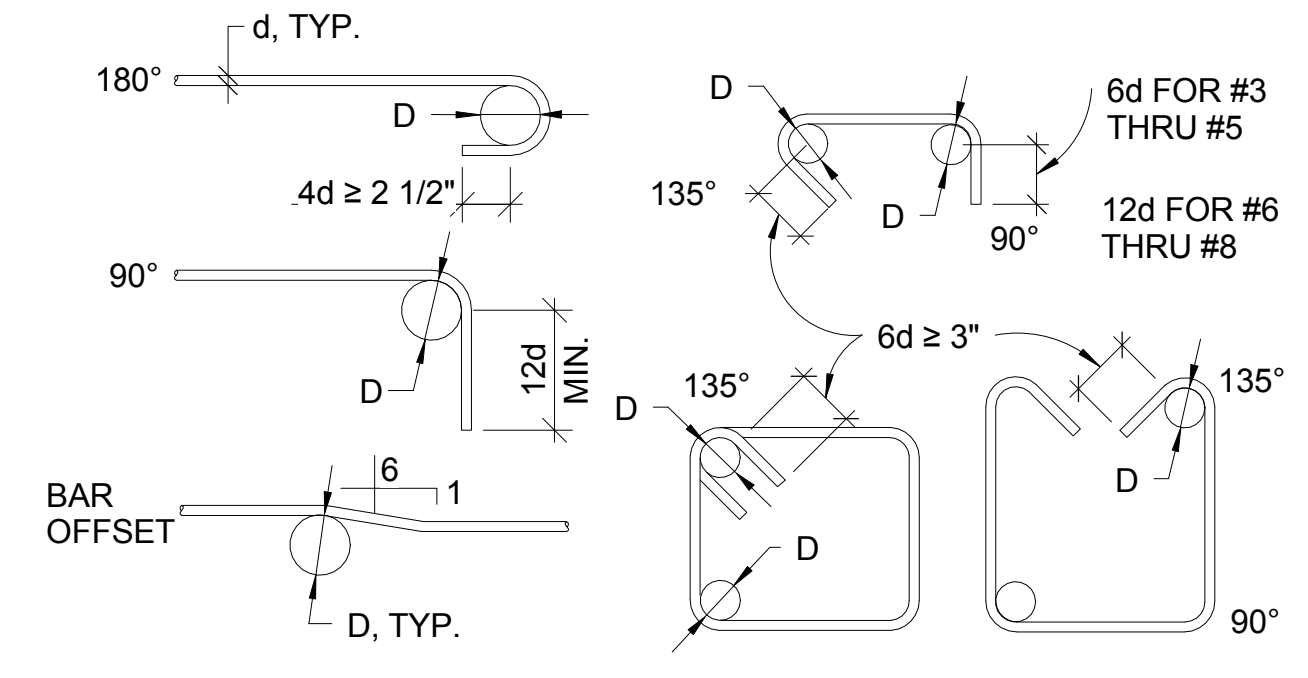
REVISIONS	DATE
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PIGEON POINT LIGHTHOUSE REHABILITATION
TYPICAL CONCRETE DETAILS

DRAWING NO. XXXX.

SHEET NO. S0.5
8 OF 54

STD HOOKS & BENDS STIRRUPS, TIES & HOOPS



BAR SIZE	BEND DIAMETER, D	
	STD HOOKS & BENDS	STIRRUPS, TIES & HOOPS
#3 THRU #5	6d	4d
#6 THRU #8	6d	6d
#9 THRU #11	8d	NA
#14 THRU #18	10d	NA

NOTE:
1. DO NOT FIELD BEND REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE.

MIN. BAR SPACING:
1 1/2" OR 1 1/2d WHICHEVER IS LARGER

A BAR SPACING FOR NON-SPLICED BARS

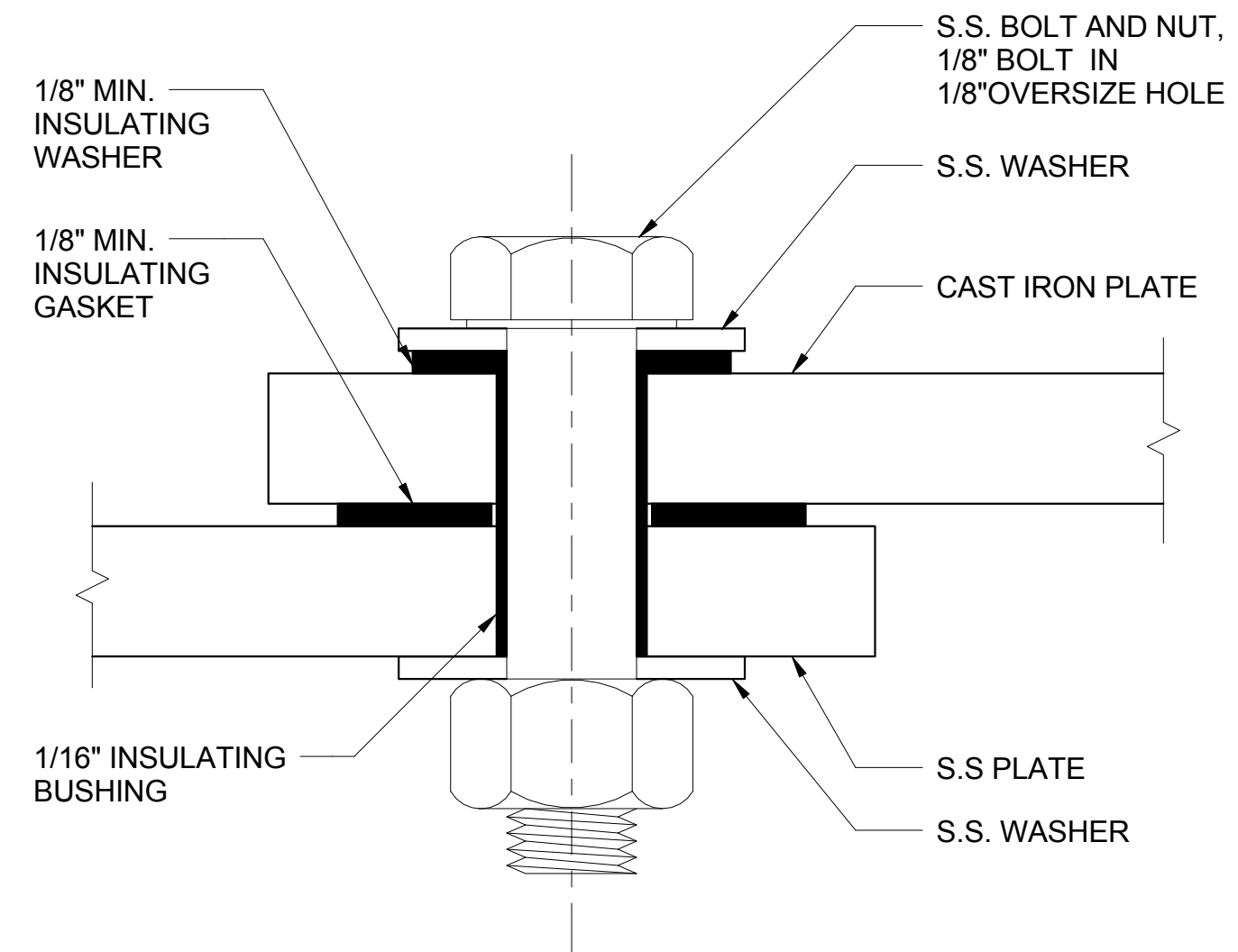
MAX. BAR SPACING:
Ls/5 OR 6" WHICHEVER IS SMALLER

NOTE: PROVIDE LOCATIONS OF NON-CONTACT SPLICES TO SEOR FOR APPROVAL

B BAR SPACING FOR BARS SPLICED WITH A NON-CONTACT LAP

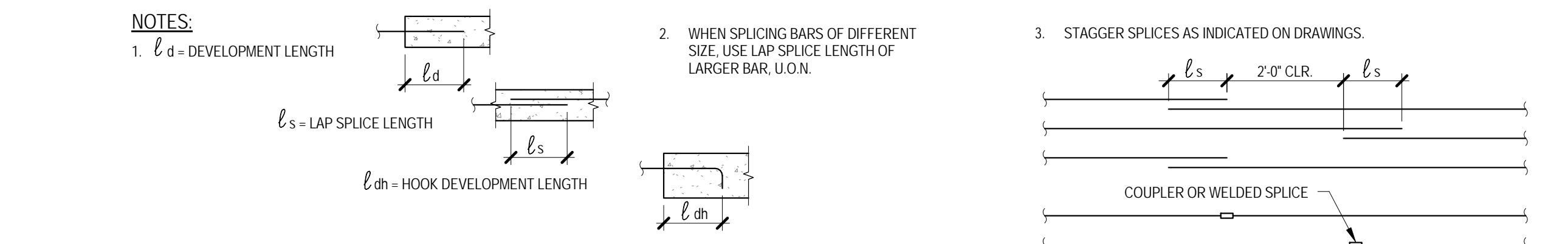
6 HOOKS & BENDS
1" = 1'-0"

3 BAR SPACING IN CONCRETE
1" = 1'-0"



5 DETAIL
12" = 1'-0"

BAR LOCATION		CONCRETE		BAR SIZE																													
		TYPE	STRENGTH	#3		#4		#5		#6		#7		#8		#9		#10		#11		#14		#18									
				l _d	l _s	l _{ch}	l _d	l _s	l _{ch}	l _d	l _s	l _{ch}	l _d	l _s	l _{ch}	l _d	l _s	l _{ch}	l _d	l _s	l _{ch}	l _d	l _s	l _{ch}	l _d	l _s	l _{ch}						
VERT. WALL BARS, FILL ON METAL DECK, SUSPENDED SLAB	NWC	f _c ≥ 4ksi	12	16	6	14	18	7	21	27	8	23	30	10	38	49	12	36	46	13	44	57	15	54	70	17	64	83	27	68	32	121	43
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	f _c ≥ 4ksi	16	20	6	16	20	7	18	24	8	22	29	10	32	42	12	37	48	13	42	54	15	47	61	17	52	68	27	80	32	107	43
BEAM BOTTOM BARS, COLUMN BARS	NWC	f _c ≥ 4ksi	14	18	7	19	25	9	24	31	12	28	37	14	42	54	17	47	62	19	54	70	21	60	78	24	67	87	27	80	32	107	43
FOOTING BOTTOM BARS	NWC	f _c ≥ 4ksi	12	16	6	12	16	7	14	18	8	17	22	10	25	32	12	28	37	13	32	42	15	36	47	17	40	52	27	53	32	88	43
BEAM TOP BARS	NWC	f _c ≥ 4ksi	18	24	7	25	32	9	31	40	12	37	48	14	54	70	17	62	80	19	70	90	21	78	102	24	87	113	27	104	32	139	43
SLAB ON GRADE	NWC	f _c ≥ 4ksi	12	16	6	12	16	7	14	18	8	17	22	10	28	37	12	36	46	13	44	57	15	54	70	17	64	83	27	87	32	138	43
FILL ON METAL DECK	LWC	f _c ≥ 4ksi	16	20	8	18	24	13	27	35	16	30	39	18	49	64	22	46	64	25	57	74	27	70	91	31	83	108	35	88	42	157	56



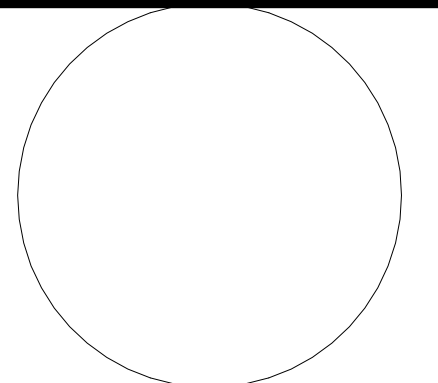
4 REINFORCING DEVELOPMENT & SPLICE LENGTHS
1" = 1'-0"

MULTIPLY THE ABOVE LENGTHS BY 1.5 FOR EPOXY COATED REINF.

B2138004.00 2/5/2015 2:03:06 PM



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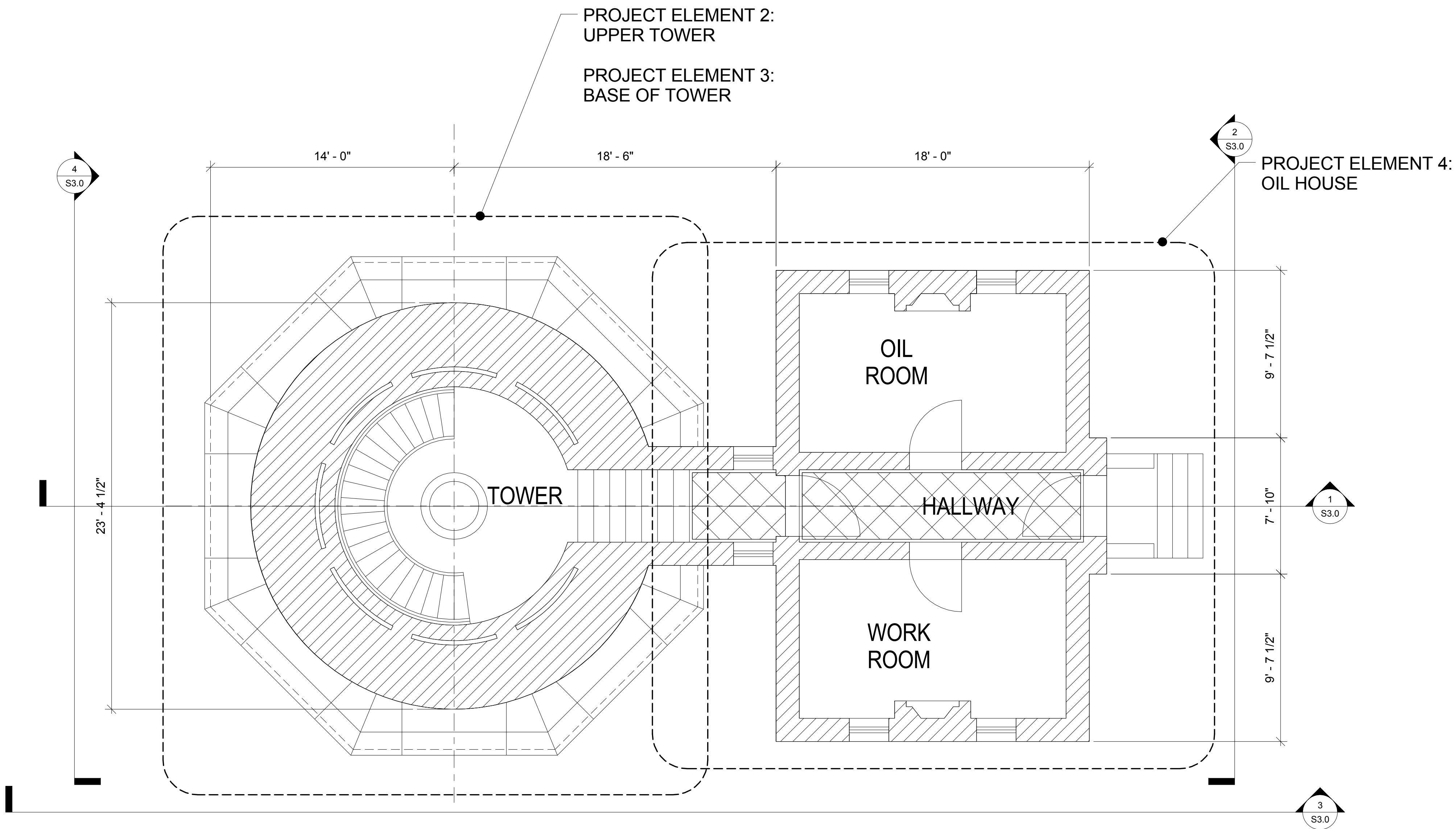
DESIGNED: LF
DRAWN: MSA
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PIGEON POINT LIGHT STATION HISTORIC PARK
PIGEON POINT LIGHTHOUSE REHABILITATION
OVERALL PLAN AT TOWER AND OIL HOSE

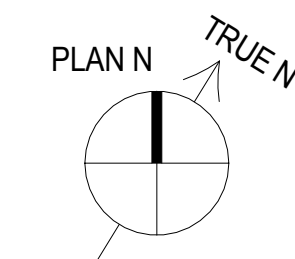
DRAWING NO.
XXXX.

SHEET NO.
S2.0
9 OF 54



NOTE:
PROJECT ELEMENT 1
IS COMPLETE. SEE T1.0
FOR MORE INFORMATION.

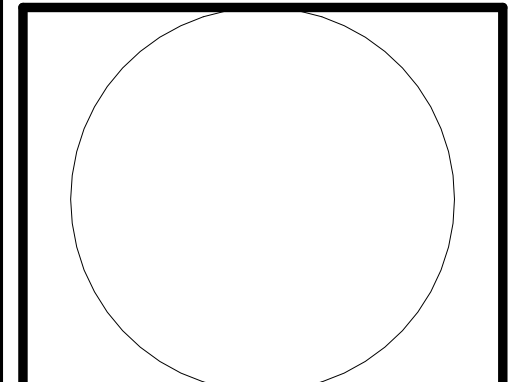
1 LIGHTHOUSE TOWER AND OIL HOUSE PLAN
1/4" = 1'-0"



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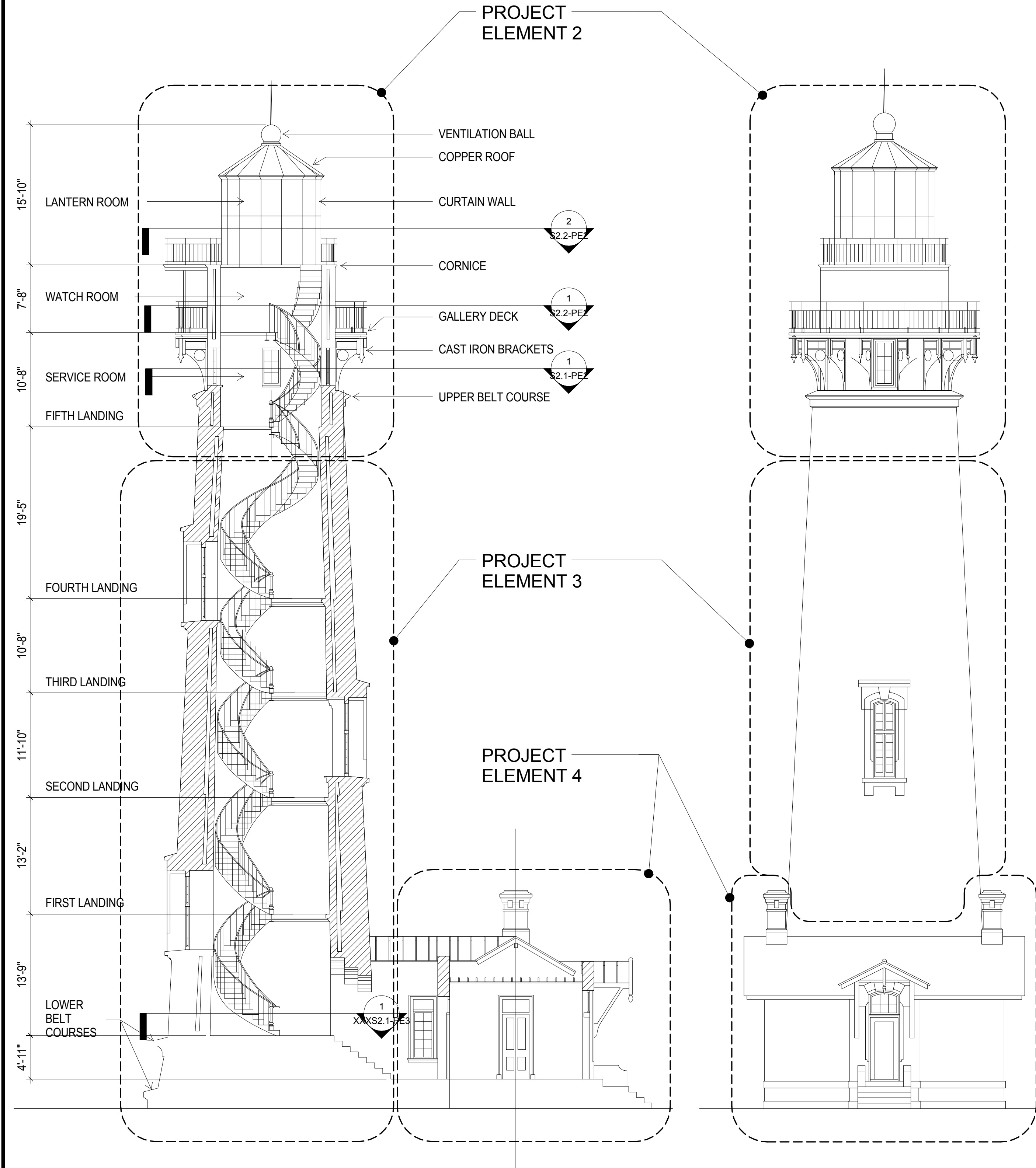
REVISIONS	DATE
50% CD	5/22/2014
100% DRAFT CD	1/30/2015

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PIGEON POINT LIGHTHOUSE REHABILITATION
TOWER ELEVATIONS SOUTH AND EAST

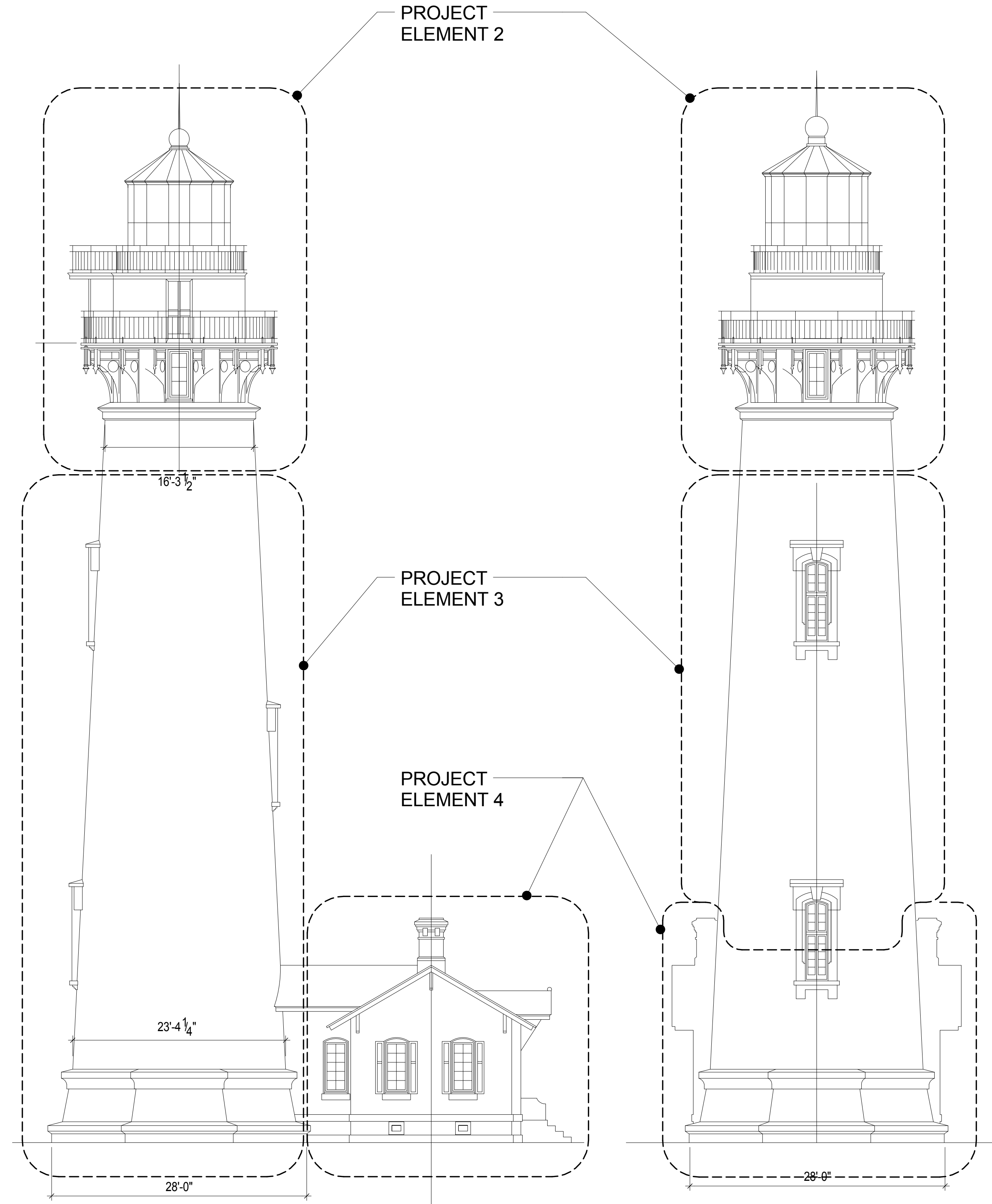
DRAWING NO.
XXXX.

SHEET NO.
S3.0
10 OF 54

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1 SECTION
1/8" = 1'-0"



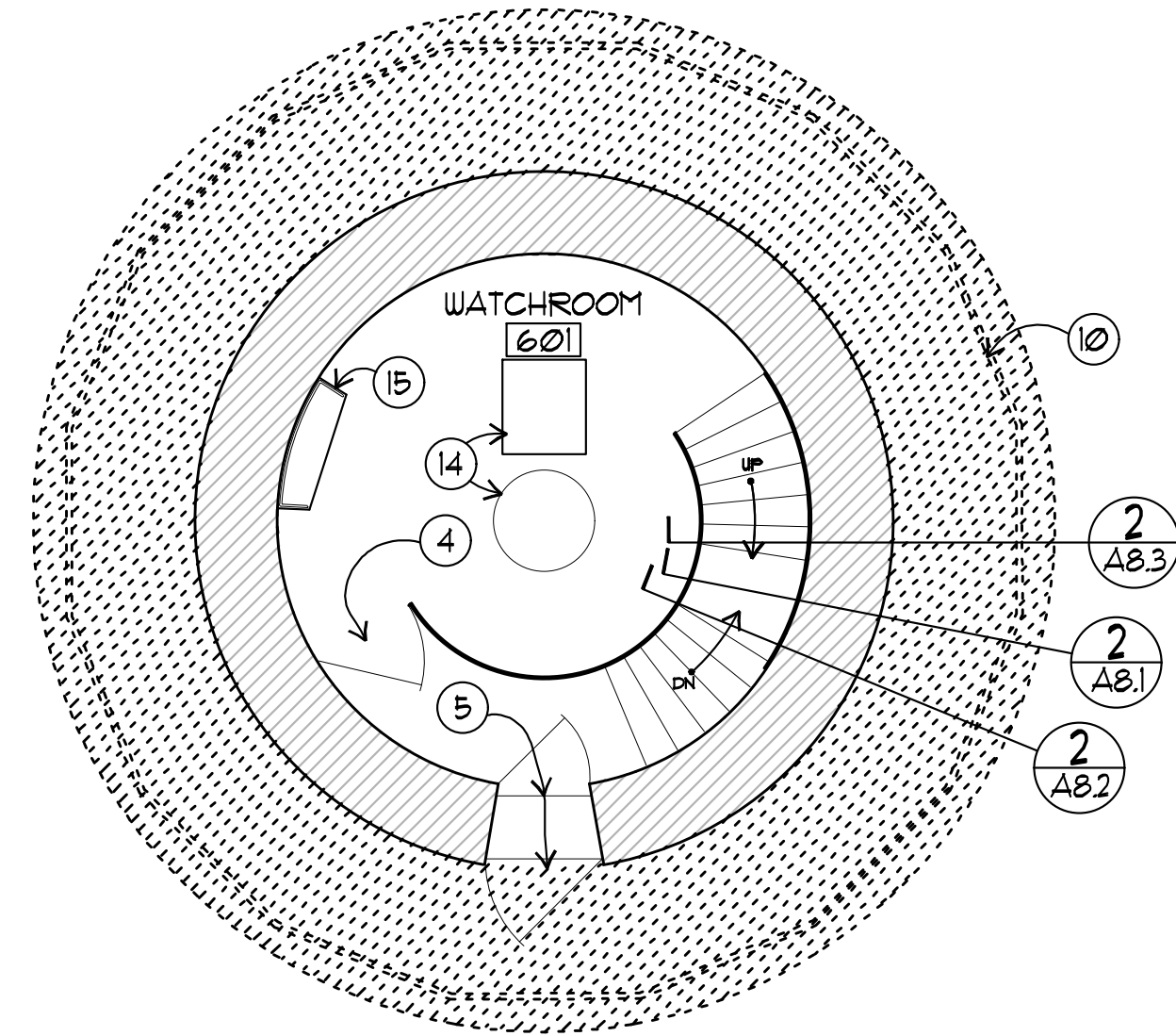
3 SOUTH ELEVATION
1/8" = 1'-0"

2 EAST ELEVATION
1/8" = 1'-0"

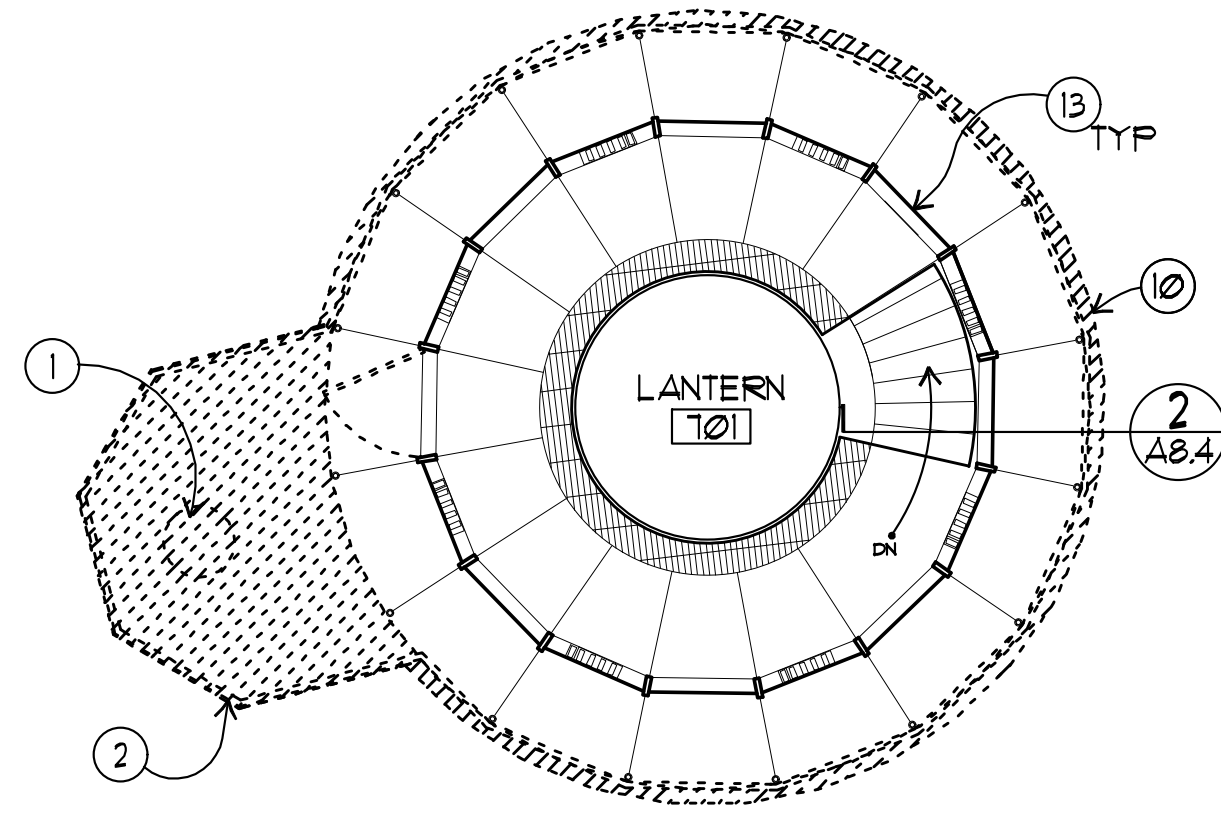
4 WEST ELEVATION
1/8" = 1'-0"

NOTE:
NORTH ELEVATION SIMILAR O.H.

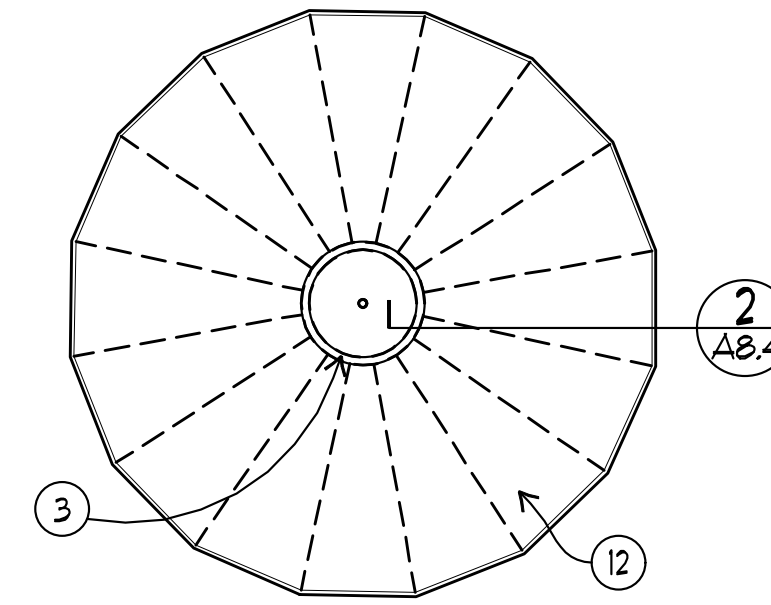
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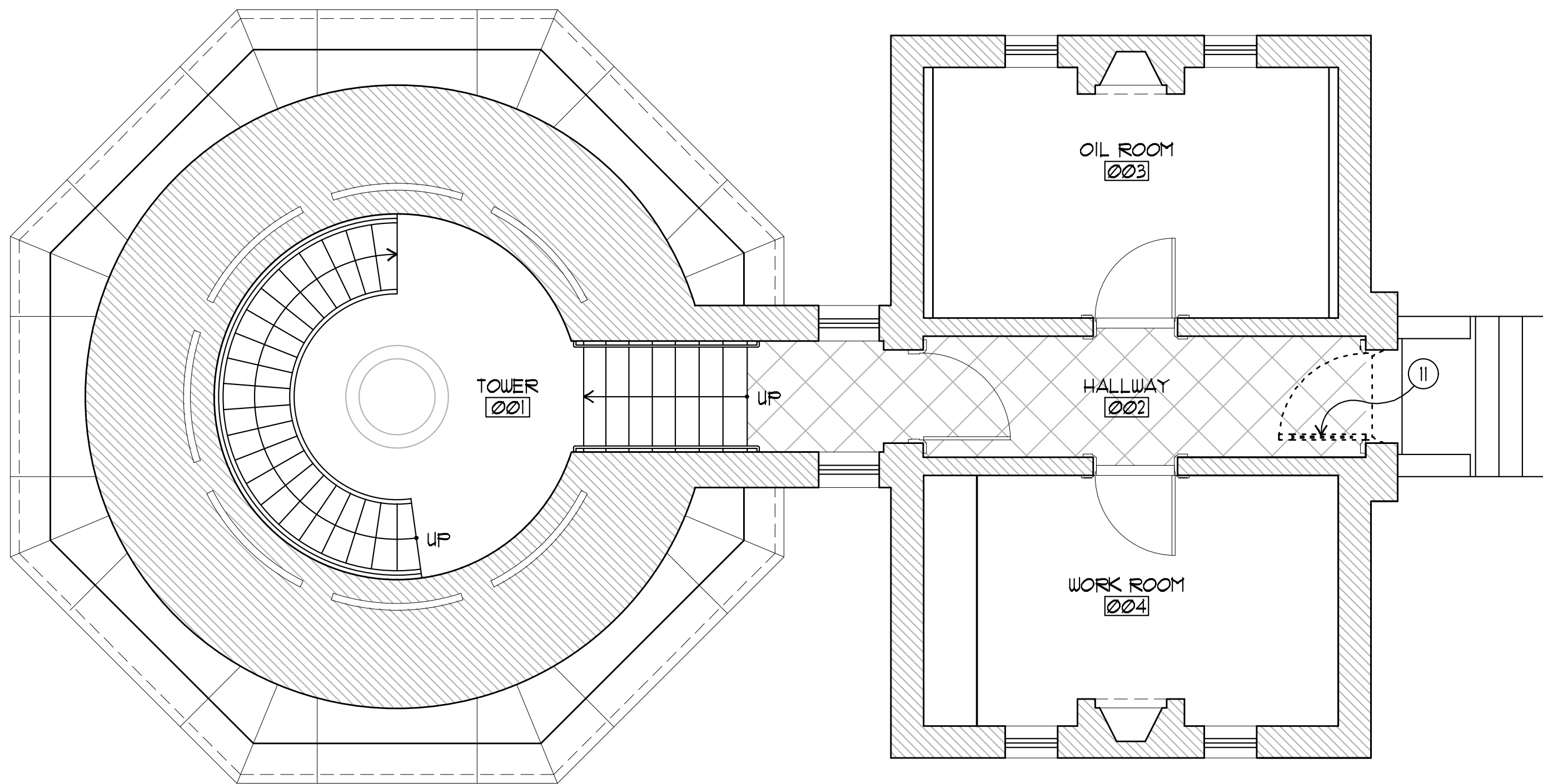
3 6TH LANDING (GALLERY/WATCH ROOM) DEMO PLAN
 All SCALE: 1/4" = 1'-0"
 X-PLAN.DWG



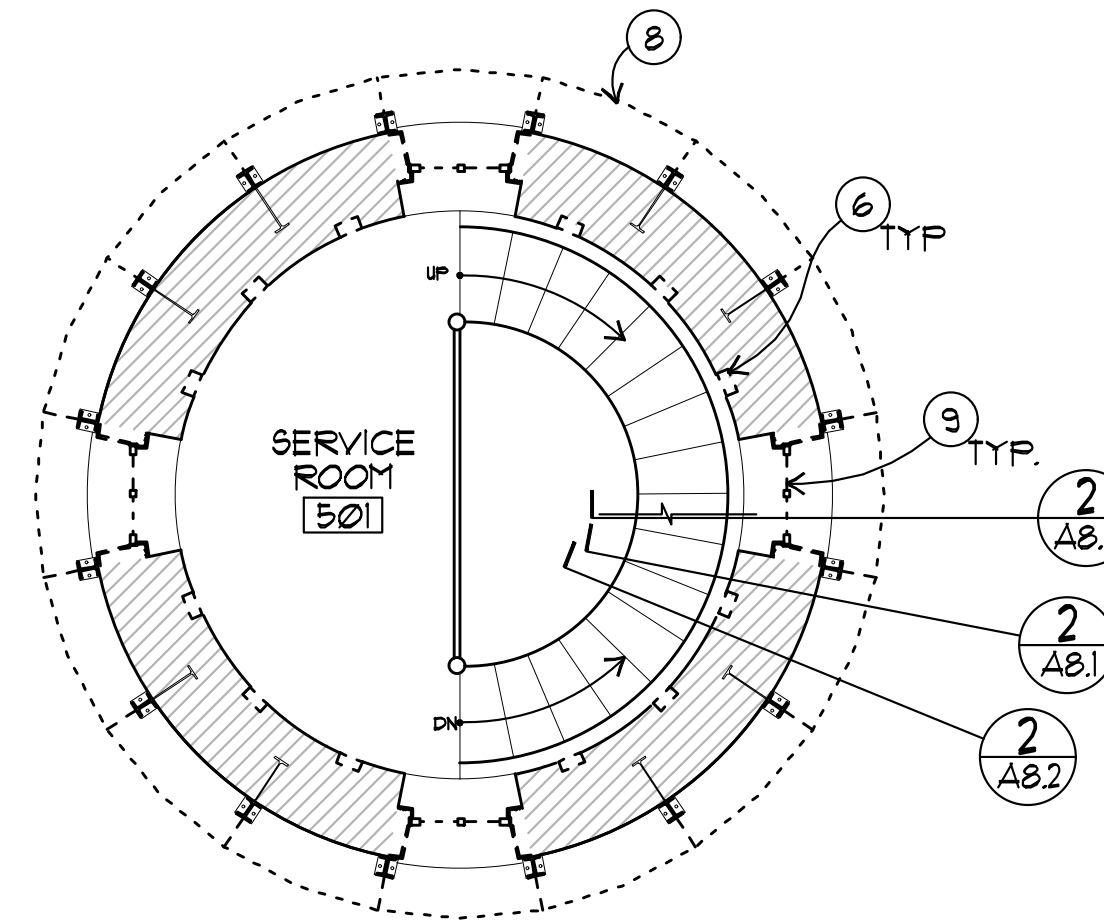
4 7TH LANDING (LANTERN ROOM) DEMO PLAN
 All SCALE: 1/4" = 1'-0"
 X-PLAN.DWG



5 LANTERN ROOF DEMO PLAN
 All SCALE: 1/4" = 1'-0"
 X-PLAN.DWG



1 GROUND FLOOR DEMO PLAN
 All SCALE: 1/4" = 1'-0"
 X-PLAN0 (GROUND).DWG



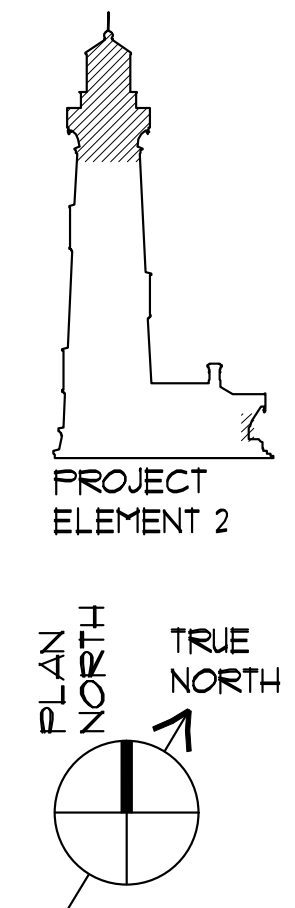
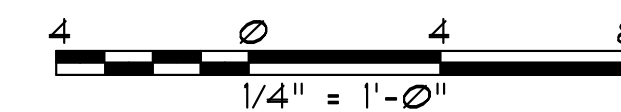
2 5TH LANDING (SERVICE ROOM) DEMO PLAN
 All SCALE: 1/4" = 1'-0"
 X-PLAN5.DWG

DEMOLITION PLAN GENERAL NOTES

1. SEE SHEETS A8.1 THROUGH A8.4 FOR FURTHER DEMO INFORMATION.
2. ENGINEERED SHORING REQUIRED BEFORE DEMO BEGINS.
3. CLEAN ALL CAST IRON ELEMENTS TO BARE METAL, TYP.

DEMOLITION PLAN KEYNOTES

- ① DEMO BEACONS FROM LANTERN AND GALLERY DECK LEVELS AND TURN OVER TO USCG.
- ② DEMO DECK EXTENSION AND SUPPORT FOR AUXILIARY BEACON DOWN TO GALLERY DECK BELOW.
- ③ DEMO AND SALVAGE VENT BALL FOR REINSTALLATION.
- ④ DEMO AND SALVAGE DOOR FOR REINSTALLATION. REPAIR CRACKS IN FRAME IN PLACE.
- ⑤ SALVAGE DOORS FOR REINSTALLATION.
- ⑥ REMOVE PORTION OF MASONRY TO ACCOMMODATE (N) STRUCTURE, SSD.
- ⑦ NOT USED.
- ⑧ DEMO BELT COURSE (SALVAGE ONE SECTION FOR USE IN REPLICATING NEW PIECES TO MATCH).
- ⑨ DEMO SERVICE ROOM WINDOWS. REPAIR FRAMES IN PLACE.
- ⑩ DEMO RAILING.
- ⑪ DEMO DOOR AND FRAME.
- ⑫ DEMO (E) ROOFING DOWN TO WROUGHT IRON RAFTERS. RETAIN COPPER TABS FOR ATTACHMENT OF (N) ROOF.
- ⑬ DISASSEMBLE HORIZONTAL MEMBERS OF CURTAIN WALL. SALVAGE FOR REINSTALLATION.
- ⑭ PROTECT (E) EQUIPMENT IN PLACE
- ⑮ PROTECT WOOD CABINET IN PLACE.



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Fig. 9, The Embarcadero - San Francisco, California
 4/14/11-11/16

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100% DRAFT CONSTRUCTION DOCUMENTS

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER

DEMOLITION PLANS

DRAWING NO. XXXX001

SHEET NO. **A1.1-PE2**

File: Z:\13_proj\13075_pigeon_point_lighthouse_rehabilitation\13_drawings\08_construction_docs\01_100%_draft_construction_documents\pe2-x-dpr_titleblock - Pigeon Point.dwg Layout: Model Date: February 09 2015 - 5:50 pm User: m.iovato



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Fig. 9, The Embarcadero - San Francisco, California
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CONSTRUCTION
DOCUMENTS

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER

**DEMOLITION
REFLECTED CEILING PLANS**

DRAWING NO.
XXXX.001

SHEET NO.
A1.2-PE2

12 OF 54

DEMOLITION PLAN GENERAL NOTES

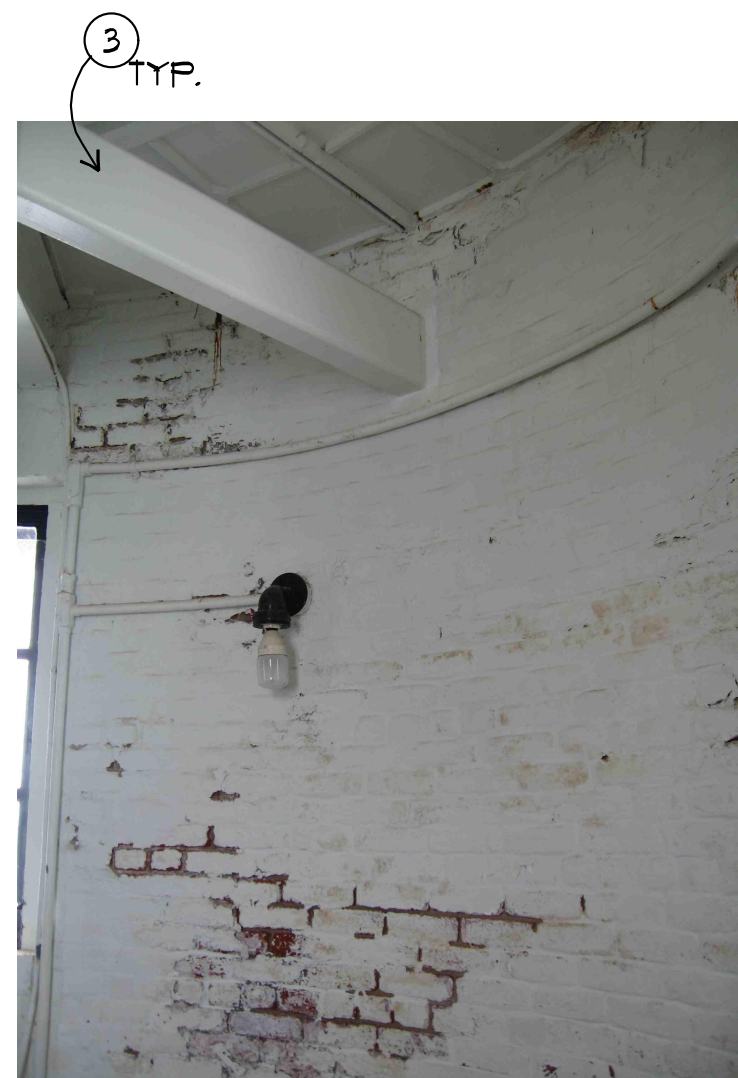
- SEE SHEET A8.1 FOR FURTHER DEMO INFORMATION.
- ENGINEERED SHORING REQUIRED BEFORE DEMO BEGINS.

DEMOLITION PLAN KEYNOTES

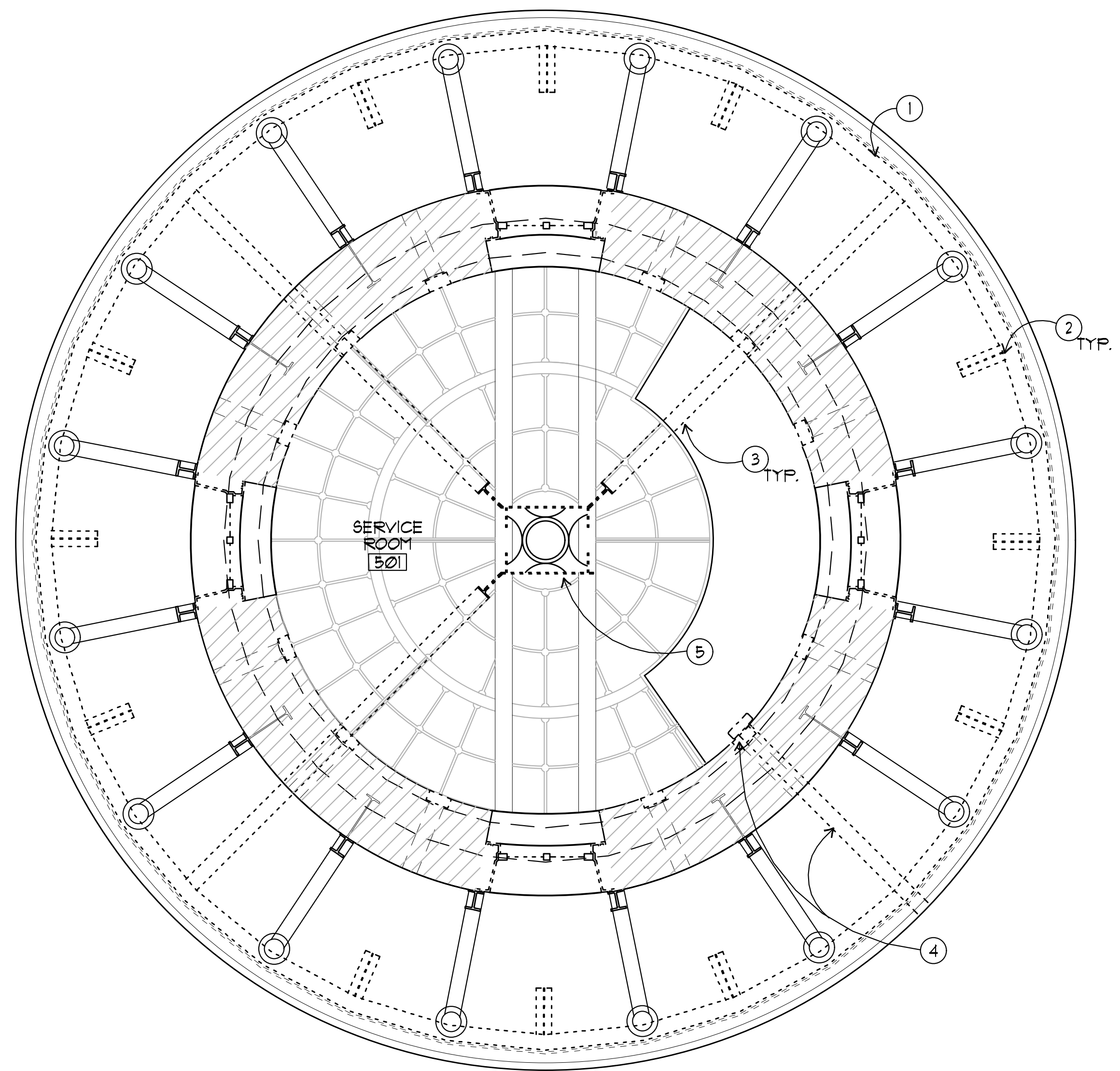
- DEMO TUBE STEEL RING AT PERIMETER.
- DEMO STEEL ANGLES.
- DEMO RADIAL TUBE STEEL BEAMS.
- DEMO TUBE STEEL BEAM AND BOLTED TUBE STEEL BRACKET.
- REMOVE STEEL MEMBERS RELATED TO RADIAL BEAMS.



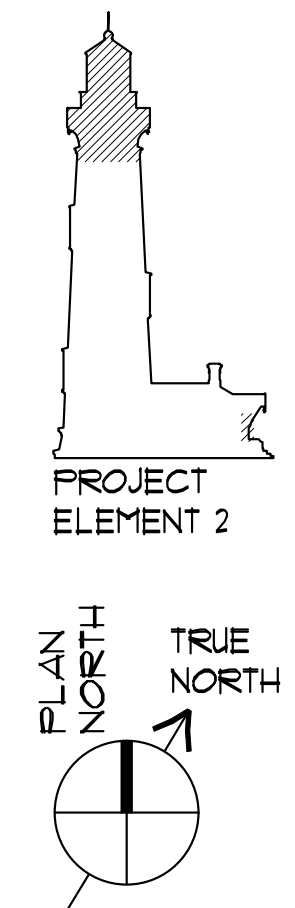
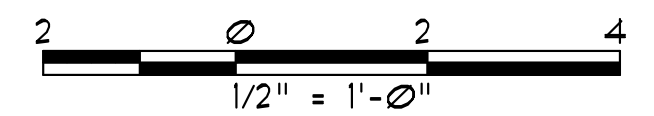
SERVICE ROOM CEILING.



UNDERSIDE OF GALLERY AT EXTERIOR.



2 5TH LANDING (SERVICE ROOM) REFLECTED CEILING DEMO PLAN
A1.2 SCALE: 1/4" = 1'-0"
X-PLANS.DWG



File: Z:\13_pro\13075_pigeon_point_lighthouse_rehabilitation\13_drawings\08_construction_docs\01_100%_draft_construction_documents\pe2-x-dpr_titleblock - Pigeon Point.dwg Layout: Model Date: February 09 2015 - 5:50 pm User: m.iovato



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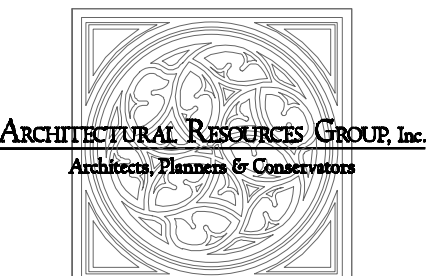


Fig. 9, The Embarcadero - San Francisco, California
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CONSTRUCTION
DOCUMENTS

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER
FLOOR PLANS

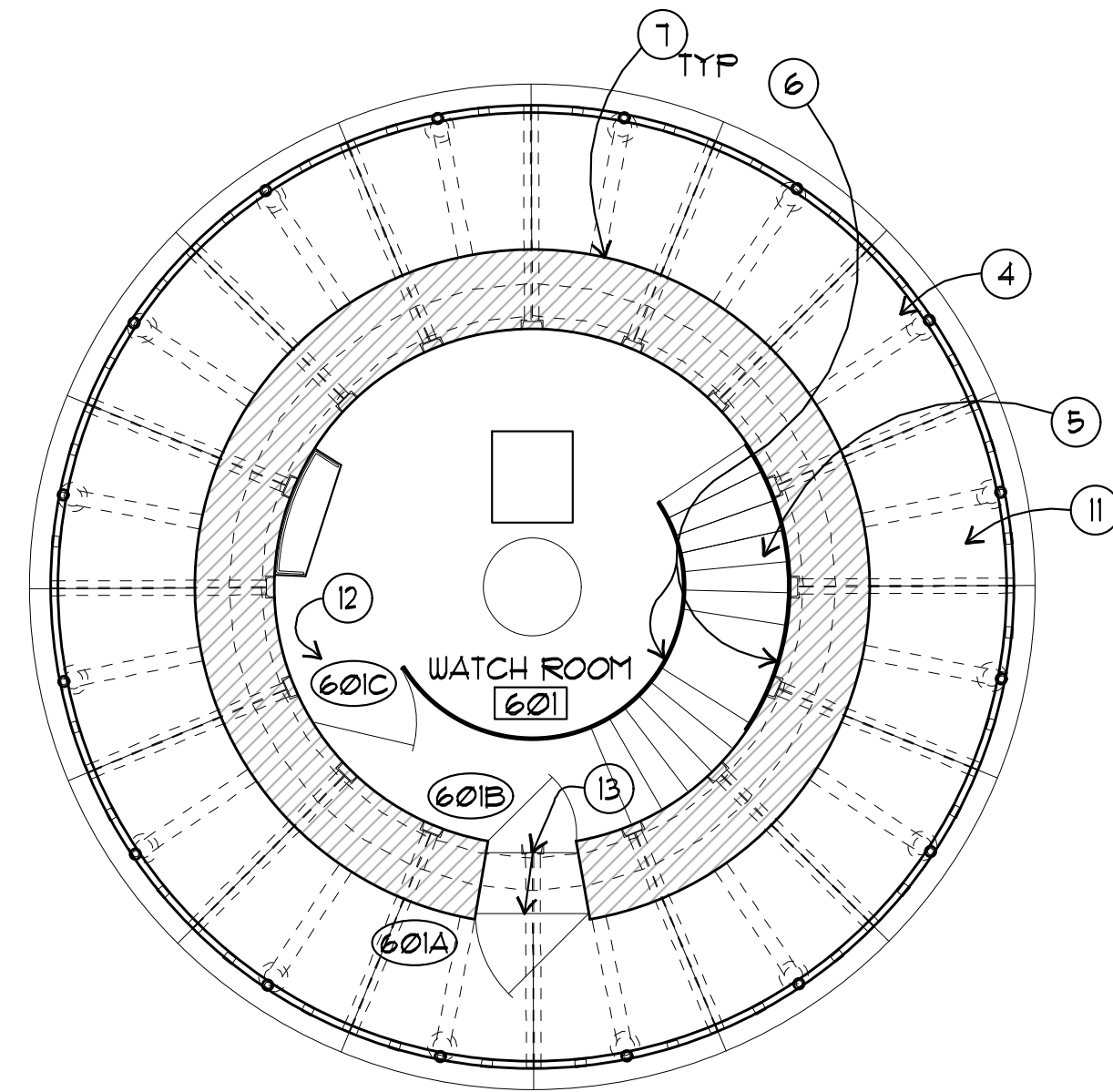
DRAWING NO.
XXXX001

SHEET NO.
A2.1-PE2

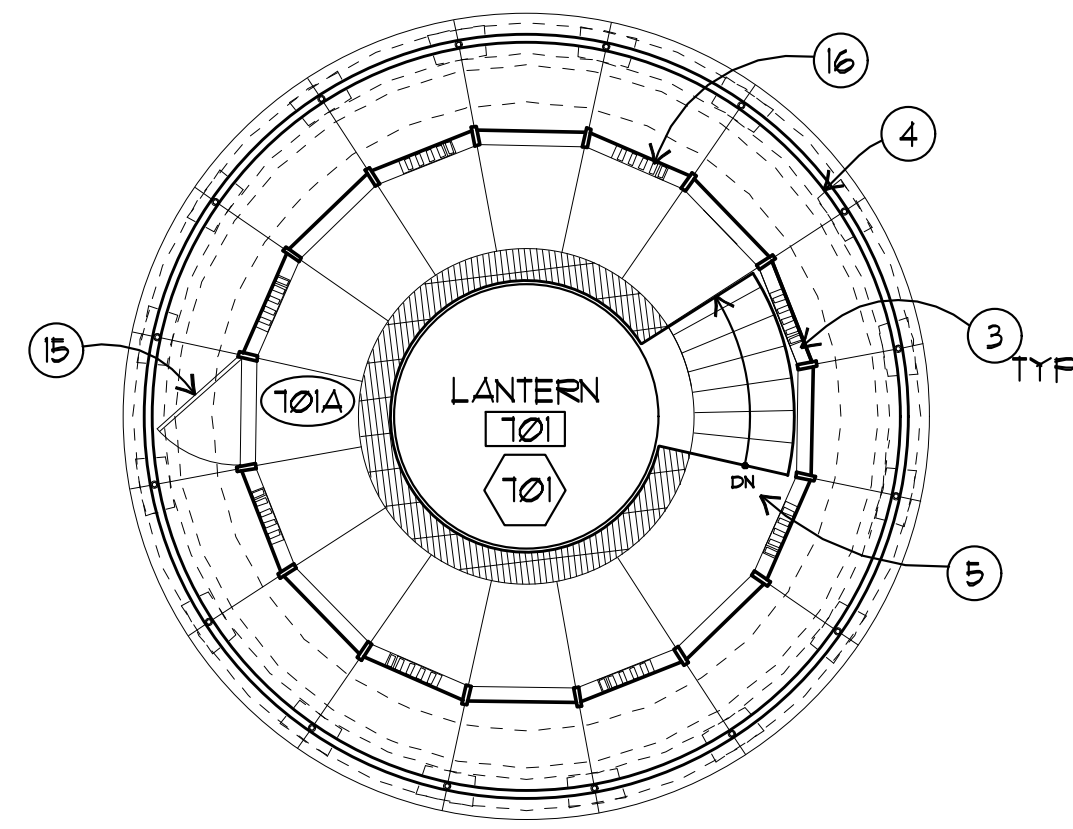
13 OF 54

PLAN KEYNOTES

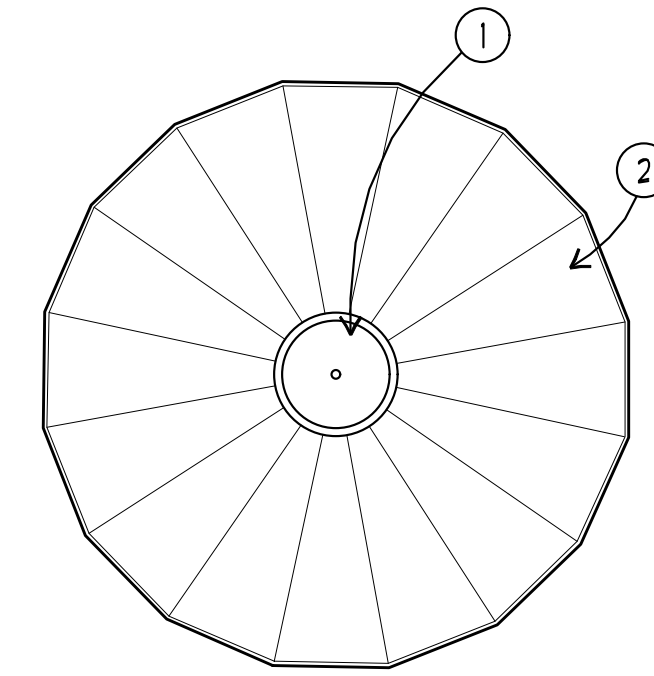
- ① REPAIR, PREP & REPAINT VENT BALL.
- ② PROVIDE (N) COPPER ROOFING, PAINT. SEE A8.1
- ③ PREP AND REPAINT METAL ELEMENTS OF CURTAIN WALL.
- ④ PROVIDE RAILING TO MATCH ORIGINAL, SEE A8.8.
- ⑤ PREP AND REPAINT STAIR.
- ⑥ REPAIR AND REPAINT INTERIOR CAST IRON WALL PLATES.
- ⑦ REPAIR AND REPAINT EXTERIOR CAST IRON WALL PLATES.
- ⑧ INSTALL NEW GFRP BELT COURSE COVER PIECE TO MATCH ORIGINAL.
- ⑨ PROVIDE NEW WOOD WINDOWS TO MATCH ORIGINAL. REPAIR (E) CI FRAMES IN PLACE.
- ⑩ REPAIR, PREP AND REPAINT CAST IRON BRACKETS AND CORNICE PLATES IN PLACE.
- ⑪ NEW S.S. DECK.
- ⑫ REPAIR CAST IRON FRAME, REINSTALL SALVAGED DOOR.
- ⑬ REPAIR CAST IRON FRAME AND JAMB PLATES, REINSTALL SALVAGED DOOR.
- ⑭ PROVIDE NEW WOOD FRAME AND WOOD DOOR SEE A8.9.
- ⑮ PROVIDE (N) ACCESS DOOR, SEE A8.9.
- ⑯ CLEAN AND RETURN BRASS VENTS TO WORKING ORDER, TYPICAL FOR 8 VENTS.



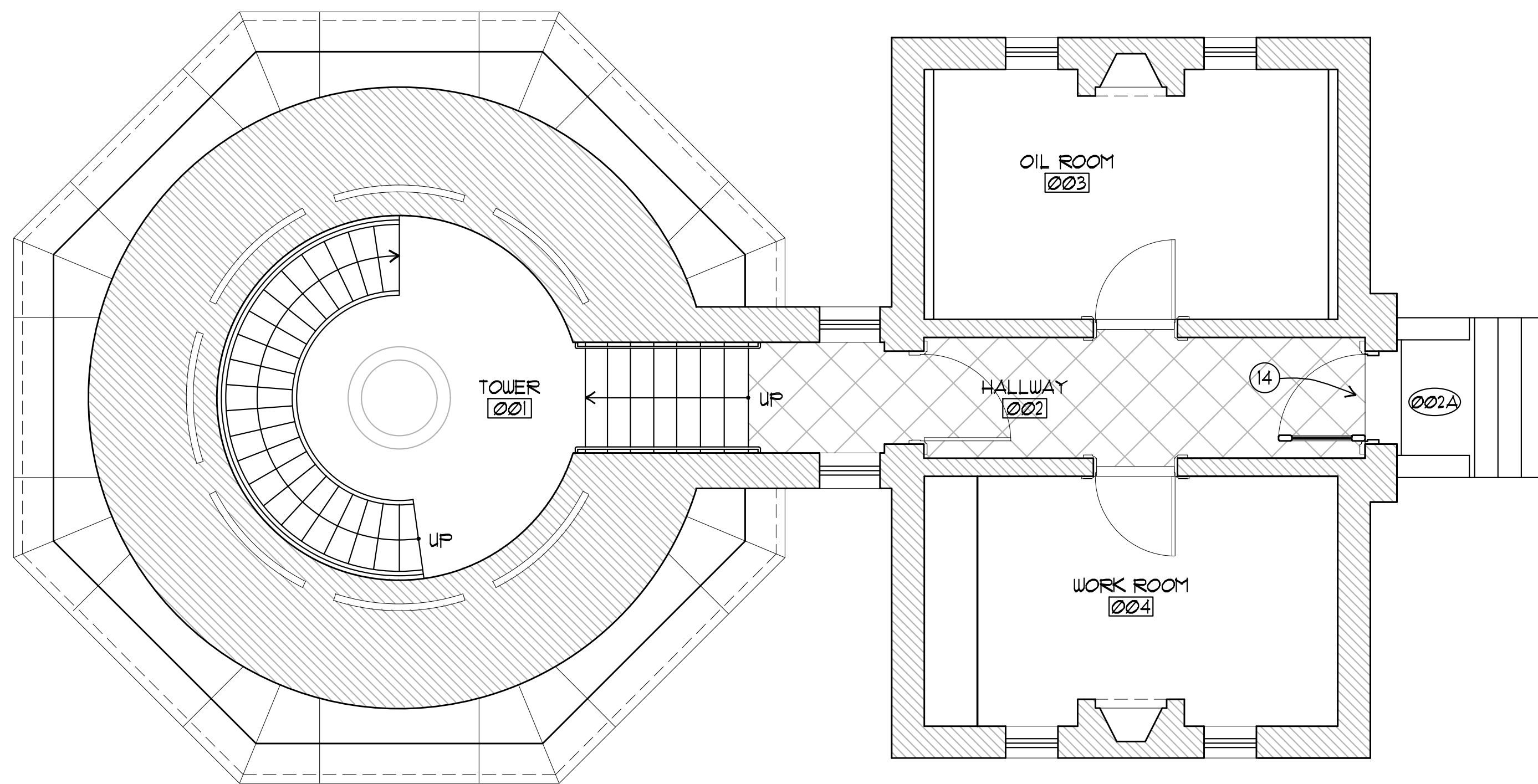
③ 6TH LANDING (GALLERY/WATCH ROOM) PLAN
A2.1 SCALE: 1/4" = 1'-0"
X-FLAN6.DWG



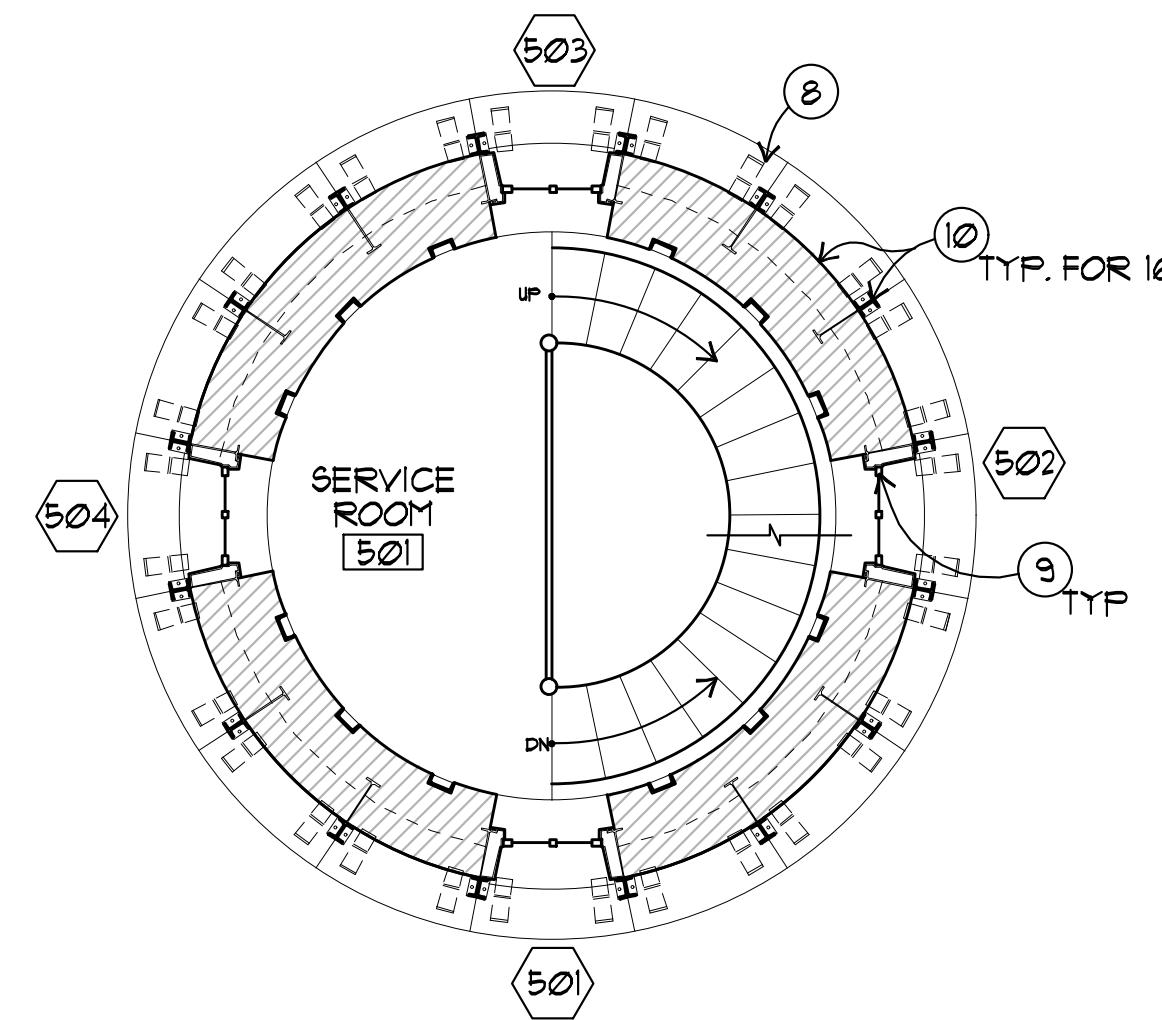
④ 7TH LANDING (LANTERN ROOM) PLAN
A2.1 SCALE: 1/4" = 1'-0"
X-FLAN7.DWG



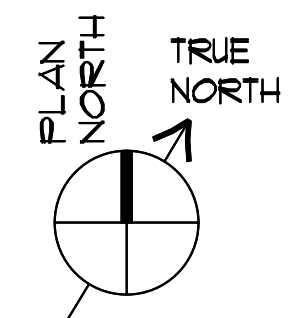
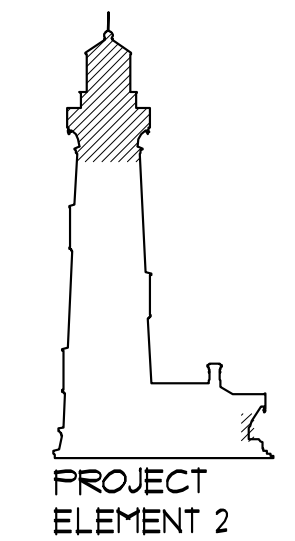
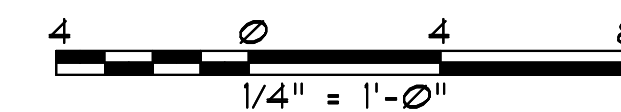
⑤ LANTERN ROOF PLAN
A2.1 SCALE: 1/4" = 1'-0"
X-FLAN8.DWG



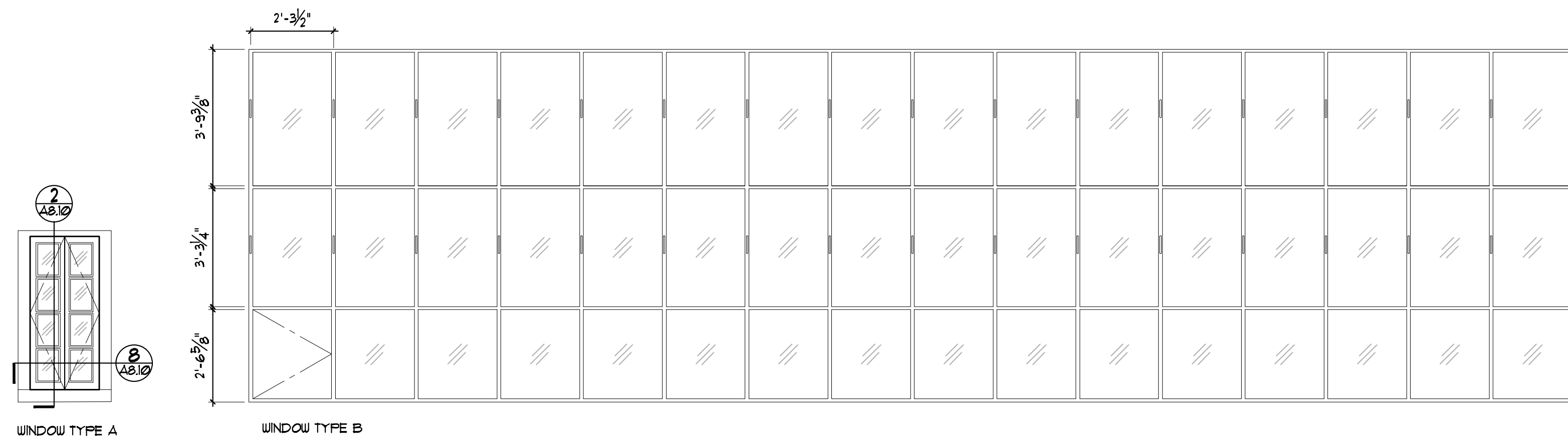
① GROUND FLOOR PLAN
A2.1 SCALE: 1/4" = 1'-0"
X-FLAN0 (GROUND).DWG



② 5TH LANDING (SERVICE ROOM) PLAN
A2.1 SCALE: 1/4" = 1'-0"
X-FLAN5.DWG

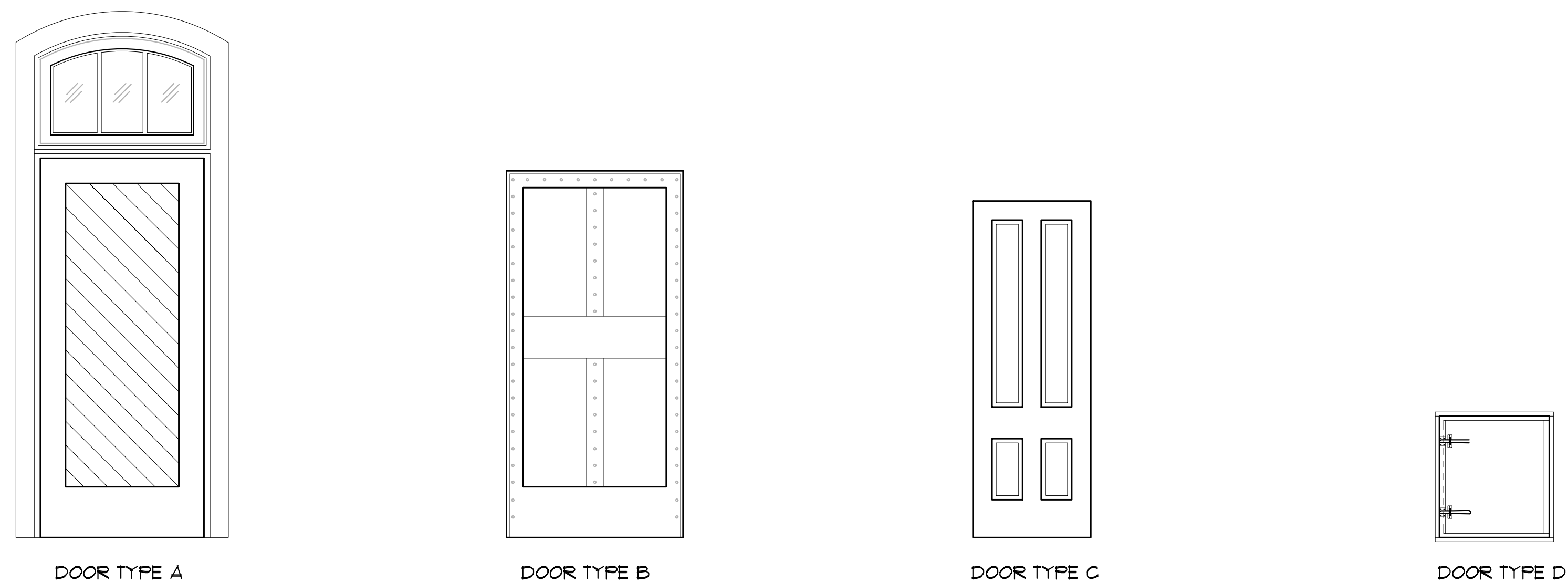


WINDOW SCHEDULE											
WINDOW NO.	ROOM NAME	(E)/(N)/(R)	TYPE	WINDOW			FRAME		GLAZING	REPAIR	REMARK
				APPROX. SIZE	MAT.	FINISH	MAT.	FINISH			
501	501 SERVICE ROOM	(N)	A	1'-11" x 4'-3"	WD	PT	IRON	PT	(N)	REPLACE TO MATCH HISTORIC, REPAIR FRAME IN PLACE	PROVIDE (N) CASEMENT HARDWARE
502	501 SERVICE ROOM	(N)	A	1'-11" x 4'-3"	WD	PT	IRON	PT	(N)	REPLACE TO MATCH HISTORIC, REPAIR FRAME IN PLACE	PROVIDE (N) CASEMENT HARDWARE
503	501 SERVICE ROOM	(N)	A	1'-11" x 4'-3"	WD	PT	IRON	PT	(N)	REPLACE TO MATCH HISTORIC, REPAIR FRAME IN PLACE	PROVIDE (N) CASEMENT HARDWARE
504	501 SERVICE ROOM	(N)	A	1'-11" x 4'-3"	WD	PT	IRON	PT	(N)	REPLACE TO MATCH HISTORIC, REPAIR FRAME IN PLACE	PROVIDE (N) CASEMENT HARDWARE
701	701 LANTERN ROOM	(E)	B	38'-4" x 10'-2"	BRZ	PT	IRON	PT	(N) SG	REPLACE TO MATCH HISTORIC, REPAIR FRAME IN PLACE	PROVIDE (N) CASEMENT HARDWARE 41 INDIVIDUAL GLAZED PANE, SEE DOOR 701A FOR STEEL ACCESS DOOR



2 WINDOW TYPES
A22 NTS

DOOR SCHEDULE												
DOOR NO.	ROOM NAME	(E)/(N)/(R)	TYPE	DOOR			FRAME		GLAZING	HARDWARE GROUP	REPAIR	REMARK
				APPROX. SIZE	MAT.	FINISH	MAT.	FINISH				
				(W X H)								
002A	002 HALLWAY	(N)	A	3'-3" x 7'-3"	WD	PT	WD	PT	N/A	(N) TBD	REPLACE TO MATCH HISTORIC	SEE 2/A8.8. NEW WD FRAME TO MATCH ORIGINAL
601A	601 GALLERY	(E)	B	3'-3" x 7'-3"	IRON	PT	IRON	PT	N/A	(N) TBD	LEVEL 2 FOR BOTH DOOR AND FRAME	
601B	601 GALLERY	(E)	C	2'-4" x 6'-8"	WD	PT	IRON	PT	N/A	(N) TBD	LEVEL 1 FOR DOOR, LEVEL 2 FOR FRAME	
601C	601 GALLERY	(E)	C	2'-4" x 6'-8"	WD	PT	IRON	PT	N/A	(N) TBD	LEVEL 2 FOR DOOR, LEVEL 2 FOR FRAME	
701A	701 LANTERN	(N)	D	2'-2" x 2'-4"	BRZ	PT	BRZ	PT	N/A	(N) TBD		SEE 1/A8.8



1 DOOR TYPES
A22 NTS

FINISH SCHEDULE												
ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS		DOOR/WINDOW CASINGS / CROWN MOLDINGS		CEILING		REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
401	FOURTH LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	(E) WD	PT	(E) IRON	(E) PT	CONSOLIDATE WINDOW SILL.
501	FIFTH LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	(E) WD	PT	(E) IRON	PT	-
601	SIXTH LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	-	-	(E) IRON	PT	-
701	SEVENTH LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	-	-	(N) METAL	PT	-

GENERAL WINDOW NOTES

- CONTRACTOR TO ENSURE PROPER WORKING ORDER AND WEATHERTIGHTNESS.
- WINDOW SIZES INDICATED ARE NOMINAL. FIELD VERIFY ACTUAL SIZE.
- REMOVE OBSOLETE FASTENERS AND OTHER HARDWARE. FILL ALL HOLES.

WINDOW AND FRAME REPAIR LEGEND

SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF REPAIR ITEMS.

GENERAL REPAIRS

LEVEL 1 - WINDOW ASSEMBLY IN GOOD CONDITION

- REMOVE PAINT AT WINDOW AND FRAME TO BARE METAL.
- PROVIDE (N) GASKETS AND SEALANT.
- REPAINT WINDOW FRAME.

GENERAL DOOR NOTES

- CONTRACTOR TO ENSURE PROPER WORKING ORDER AND WEATHERTIGHTNESS.
- DOOR SIZES SHOWN ARE NOMINAL. FIELD VERIFY (E) OPENINGS AND NEW OPENINGS WHEN ALIGNING WITH (E) FOR ACTUAL DIMENSIONS.
- CONTRACTOR SHALL PAINT OR STAIN ALL DOORS, FINISH INTERIOR AND EXTERIOR SURFACE AT ALL 6 SIDES, TYP. U.O.N.
- CONTRACTOR SHALL SURVEY (E) HARDWARE AND VERIFY WORKING ORDER OF LOCKSETS AND HINGES. SALVAGE ALL UNDAMAGED HARDWARE FROM REMOVED DOORS FOR REUSE.
- REMOVE ALL FASTENERS AND EXTRANEIOUS/UNNECESSARY ACCESSORIES. FILL ALL HOLES IN DOOR ASSEMBLY AS REQUIRED PRIOR TO APPLICATION OF FINISH, TYP.
- MATCH PROFILES & DIMENSIONS OF (E) MOLDINGS.

DOOR REPAIR LEGEND

SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF REPAIR ITEMS.

GENERAL REPAIRS

LEVEL 1 - DOOR ASSEMBLY AND HARDWARE IN GOOD CONDITION

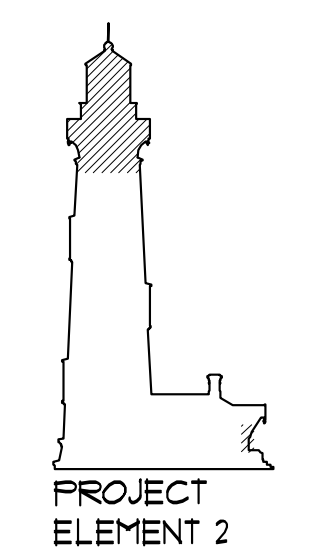
- REMOVE PAINT FROM DOOR AND FRAME TO BARE METAL OR WOOD.
- FILL HOLES & DEFECTS. TIGHTEN LOOSE JOINTS.
- REHABILITATE (E) DOOR HARDWARE, REPLACE ELEMENTS AS REQUIRED.
- REINSTALL AND RETURN TO WORKING ORDER.

LEVEL 2 - DOOR ASSEMBLY AND HARDWARE IN FAIR CONDITION WITH MINOR MATERIAL AND/OR OPERATIONAL DEFICIENCIES

- REMOVE PAINT FROM DOOR AND FRAME TO BARE METAL OR WOOD.
- REMOVE NAILS, FASTENERS, OBSOLETE HARDWARE, ETC.
- FILL HOLES AND DEFECTS. TIGHTEN LOOSE JOINTS.
- REPAIR/REPLACE HARDWARE TO MATCH EXISTING WHERE BROKEN, MISSING, OR NON-FUNCTIONING.
- REINSTALL AND RETURN TO WORKING ORDER.

FINISH ABBREVIATIONS

SOURCE:	PRIMARY MATERIAL:	FINISH:	GLAZING:
(E) EXISTING	AL ALUMINUM	PT PAINT	CG CLEAR FLOAT GLASS
(R) RELOCATED	BRZ BRONZE	ST STAIN	OBS OBSCURE GLASS
(N) NEW	CONC CONCRETE	Y VARNISH	SG SAFETY GLASS
	MTL METAL		SF SAFETY FILM
	STL STEEL		
	VNL VINYL		
	WD WOOD		



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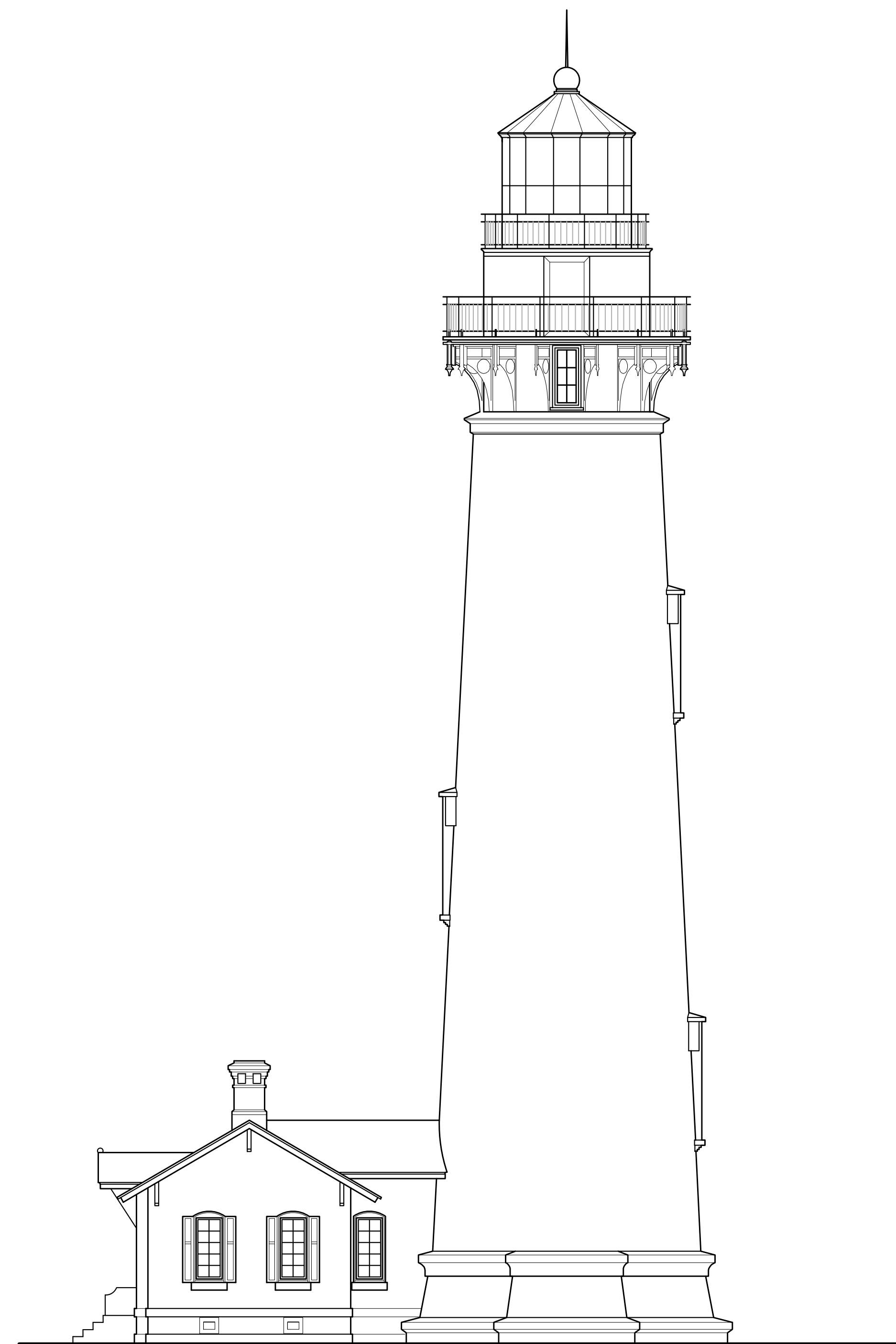
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER
SCHEDULES

DRAWING NO.
XXXX001

SHEET NO.
A2.2-PE2

14 OF 54

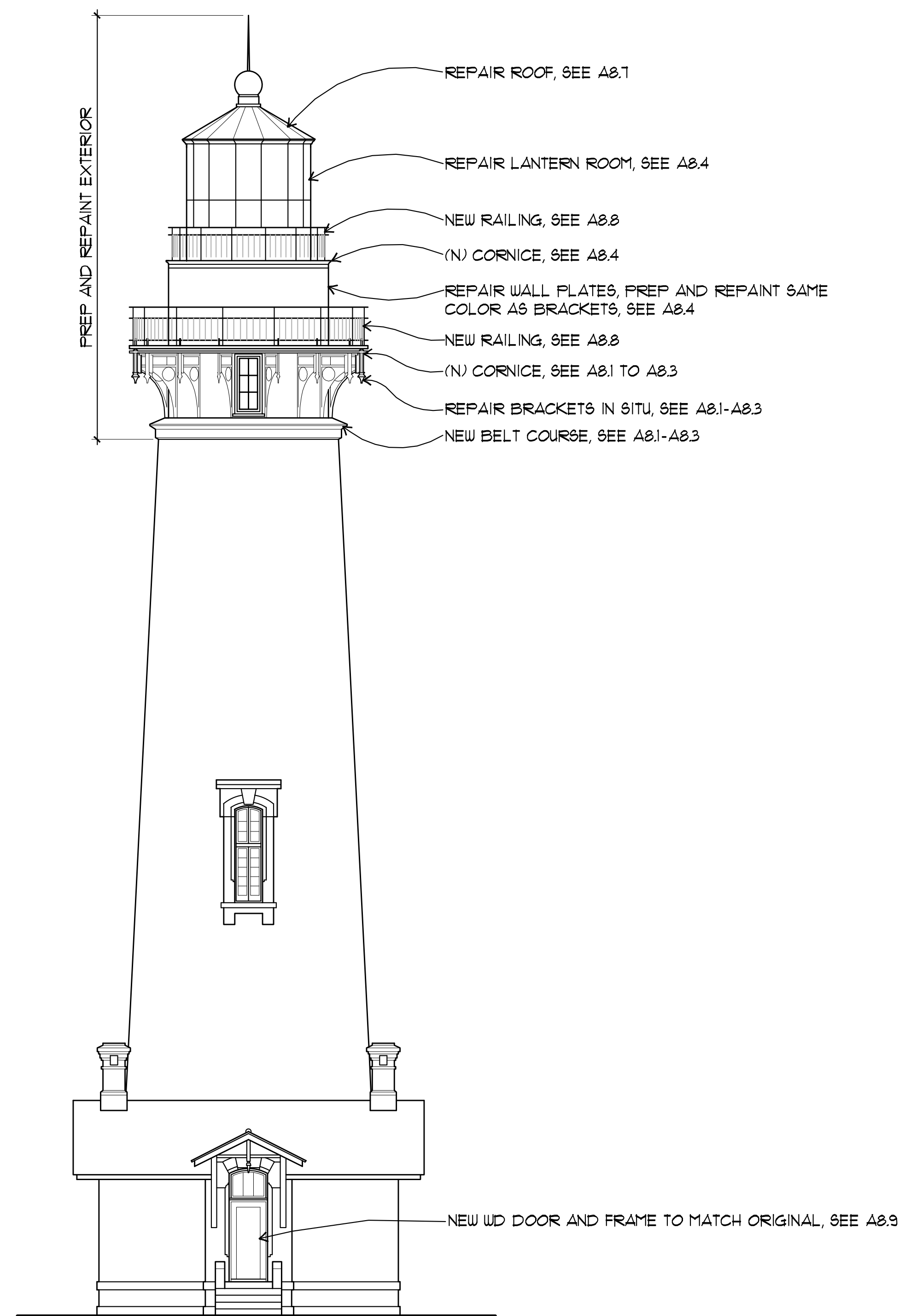
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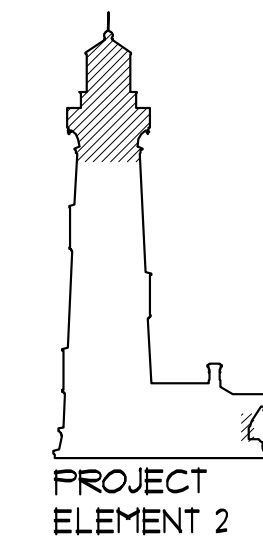
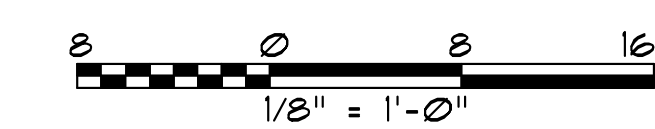
1 NORTH ELEVATION (SOUTH ELEVATION SIMILAR OPPOSITE HAND)
 A3.1 SCALE: 1/8" = 1'-0"
 X-ELEVATIONS

ELEVATION GENERAL NOTES

1. GENERAL SCOPE NOTES TYPICAL FOR ALL ELEVATIONS.
2. PAINT COLORS TO MATCH (E), U.O.N.



2 EAST ELEVATION
 A3.1 SCALE: 1/8" = 1'-0"
 X-ELEVATIONS



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 PROJECT ELEMENT #3 REHABILITATION
 OF THE LOWER LIGHTHOUSE TOWER
ELEVATIONS

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SHEET NO.
A3.1-PE2
 15 OF 54

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ELEVATION GENERAL NOTES

1. GENERAL SCOPE NOTES TYPICAL FOR ALL ELEVATIONS.
2. PAINT COLORS TO MATCH (E), U.O.N.



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Fig. 9, The Embarcadero - San Francisco, California
4/14/11 (186) 4/14/11 (186)

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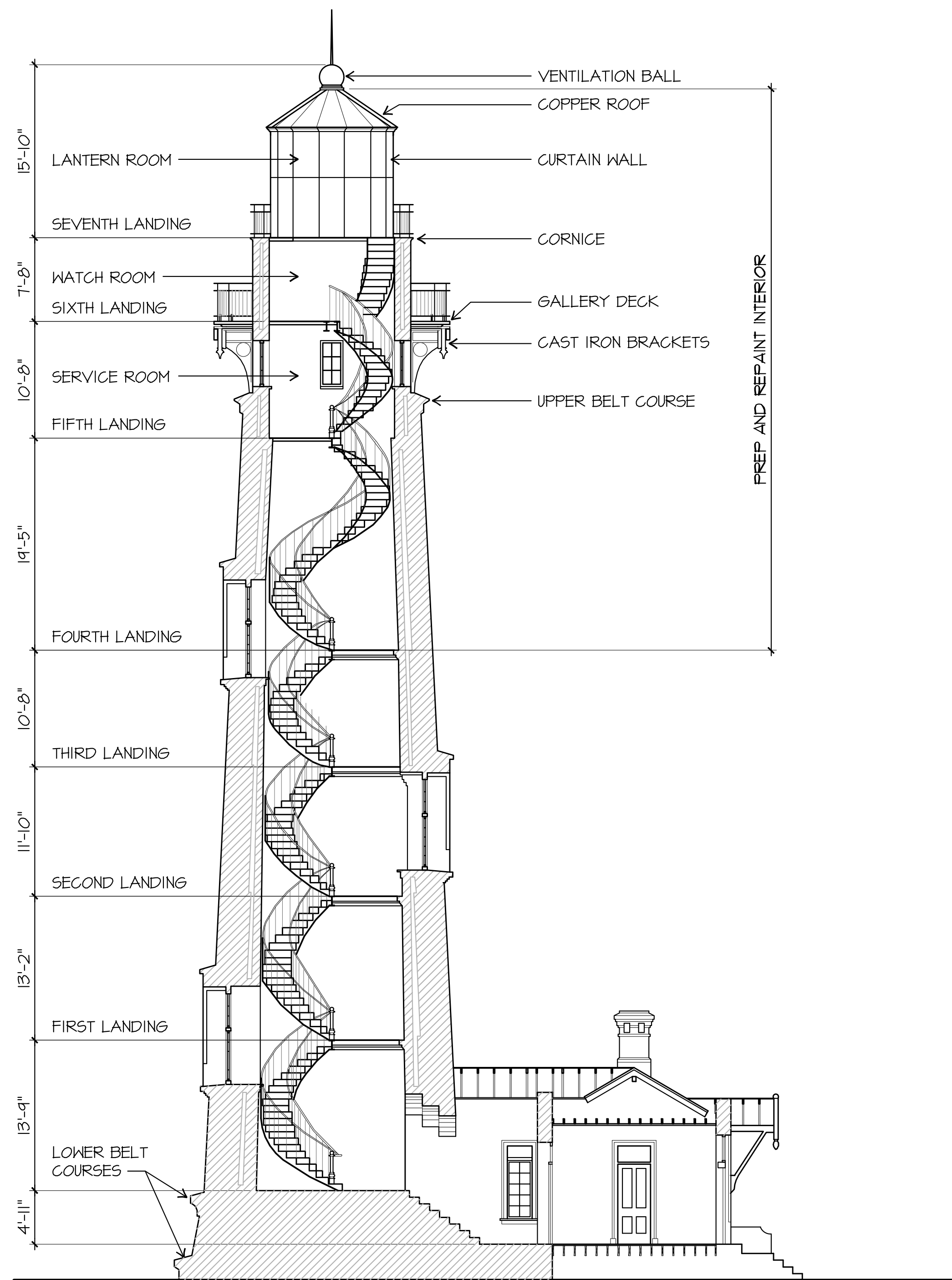
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NO.	DATE

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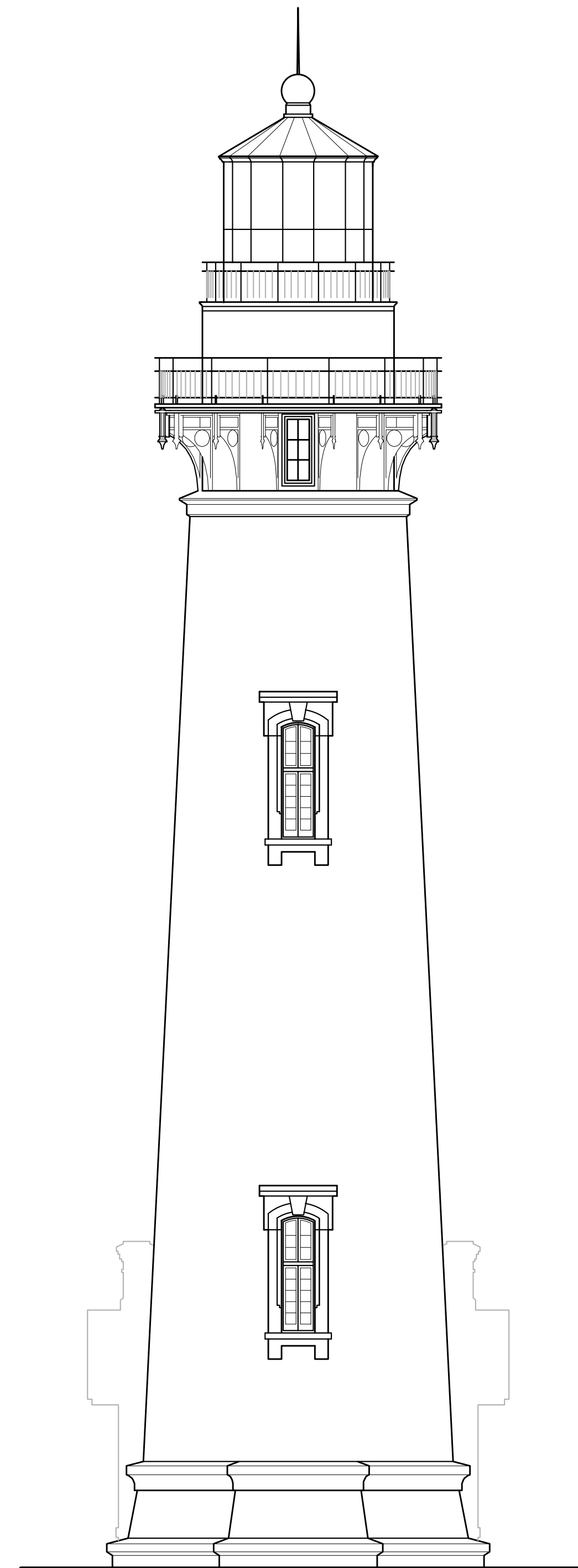
**PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER
ELEVATION AND
SECTION**

DRAWING NO.
XXXX.001

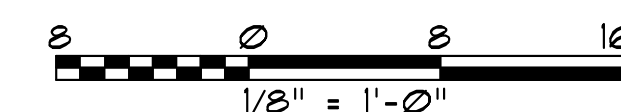
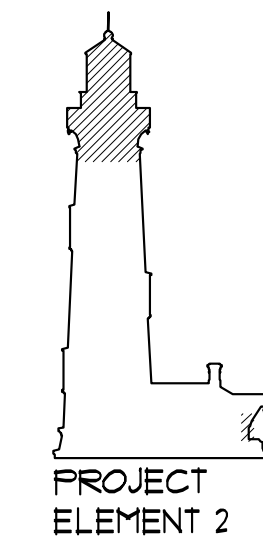
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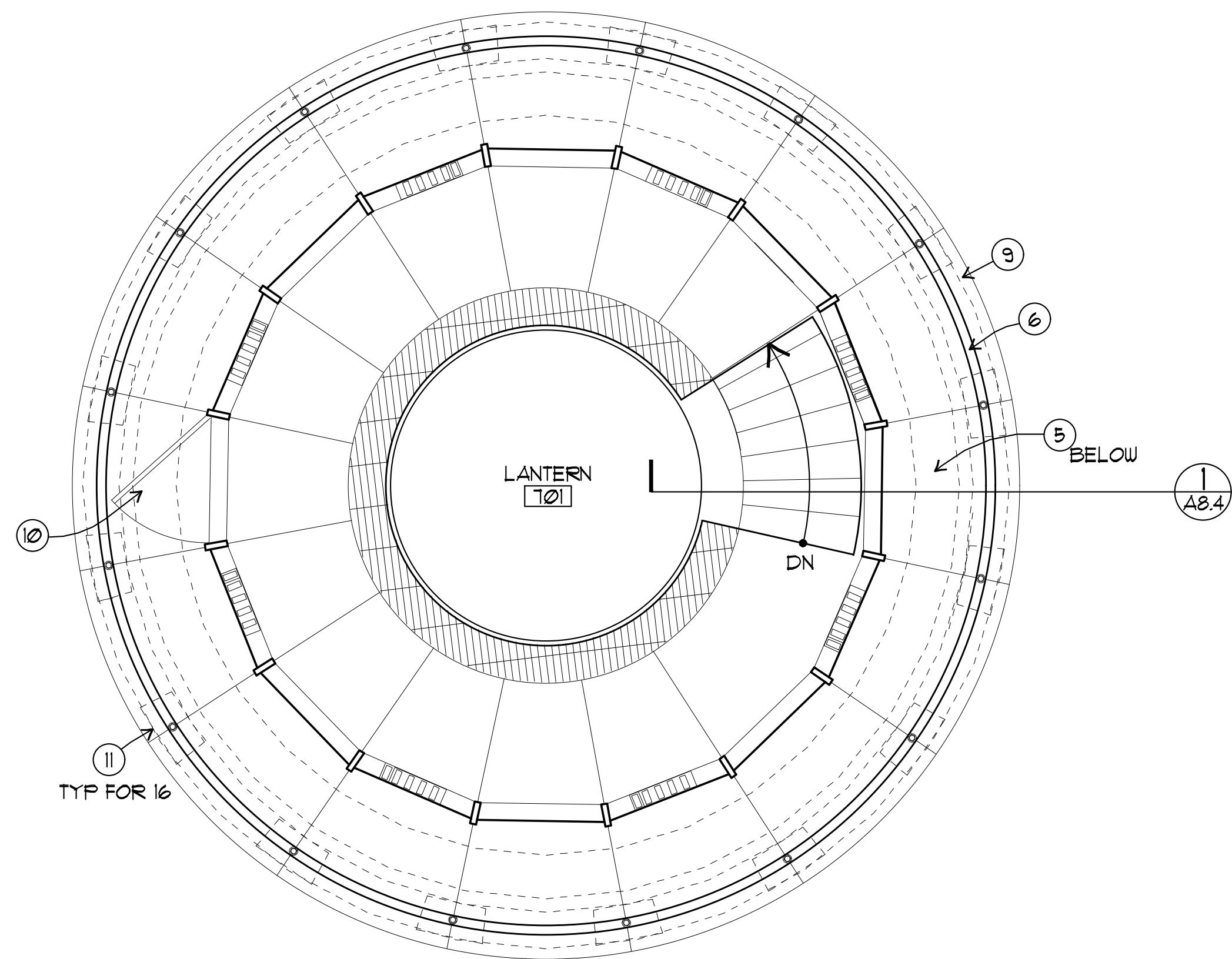
1 BUILDING SECTION
A3.2 SCALE: 1/8" = 1'-0"
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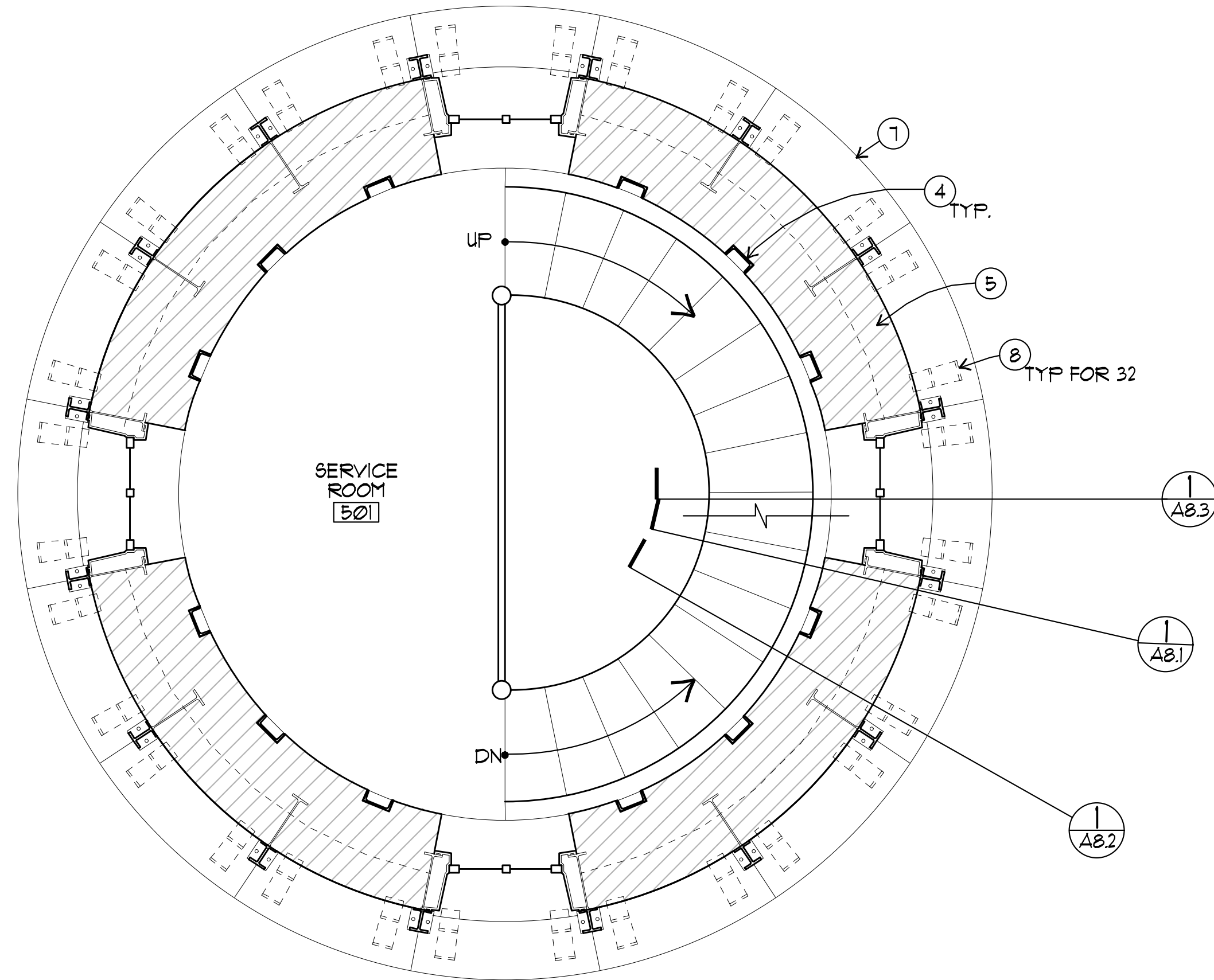
2 WEST ELEVATION
A3.2 SCALE: 1/8" = 1'-0"
X-ELEVATIONS



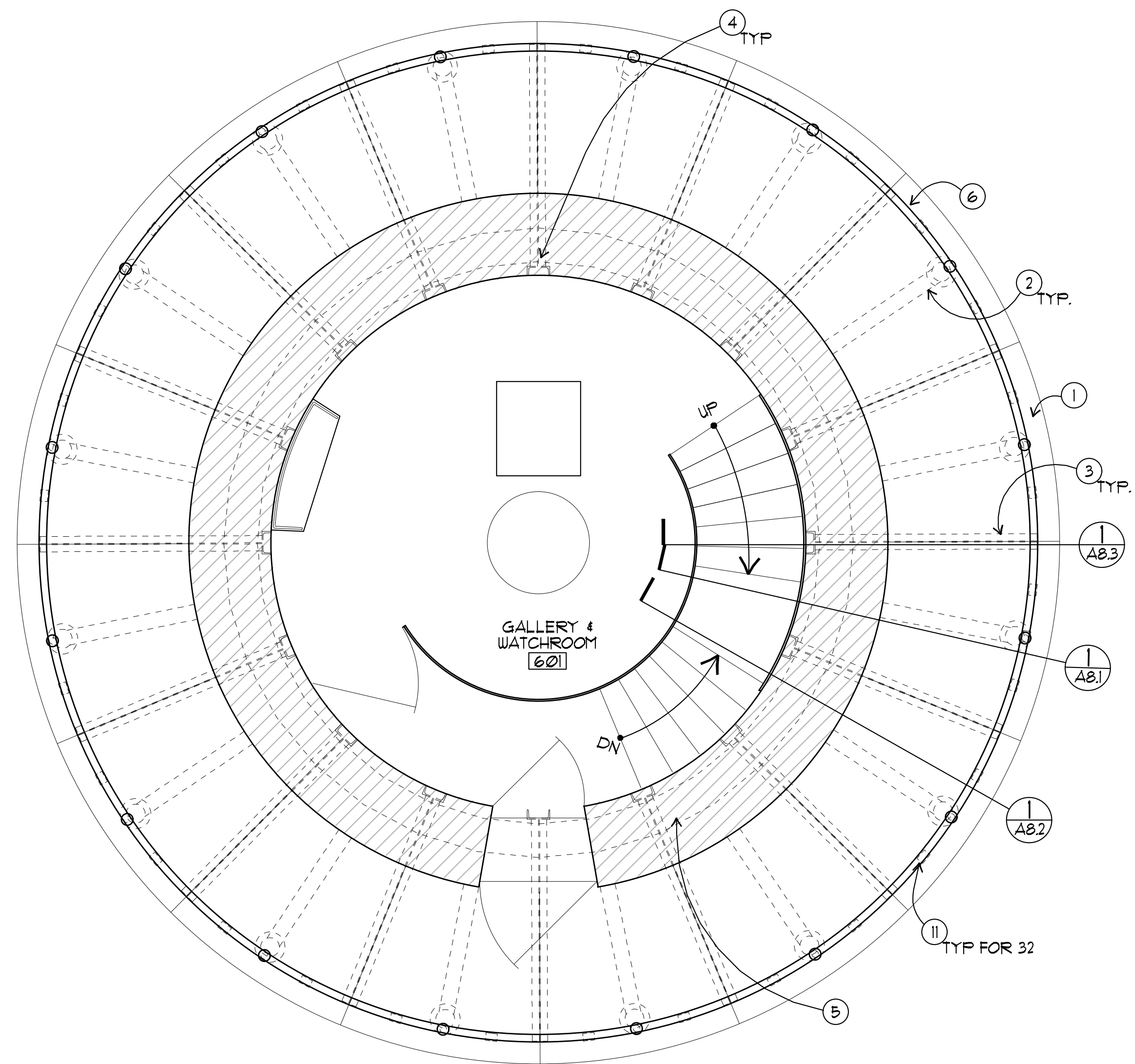
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2 2ND FLOOR LANDING (LANTERN) PLAN
 A4.1 SCALE: 1/2" = 1'-0"
 X-PLANS.DWG



2 5TH FLOOR LANDING (SERVICE ROOM) PLAN
 A4.1 SCALE: 1/2" = 1'-0"
 X-PLANS.DWG



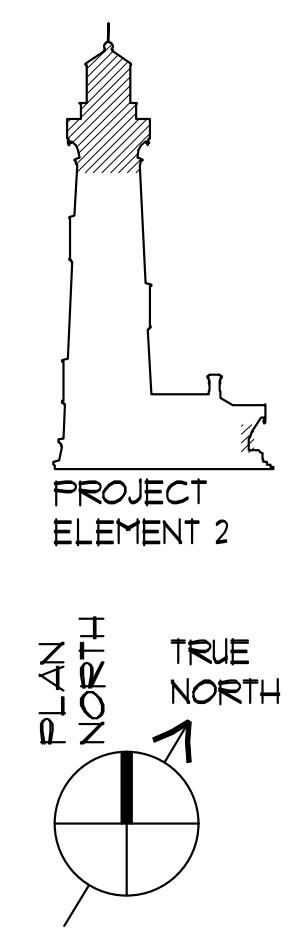
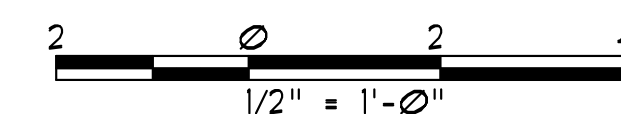
1 6TH FLOOR LANDING (GALLERY/WATCH ROOM) PLAN
 A4.1 SCALE: 1/2" = 1'-0"
 X-PLANS.DWG

GENERAL PLAN NOTES

1. PREP AND REPAINT ALL BRICK AND METAL SURFACES AT INTERIOR

ENLARGED PLAN KEYNOTES

- 1 (N) GFRP PERIMETER FASCIA PLATES TO MATCH ORIGINAL
- 2 (E) BRACKET BELOW (N) SS DECK PLATE
- 3 (N) CANTILEVER BEAM INSTALLED BELOW (N) DECK PLATES, S&D
- 4 (N) STEEL CHANNEL AFFIXED TO INSIDE WALL, S&D
- 5 (N) CONCRETE BOND BEAM, S&D
- 6 (N) SS RAILING, SEE A8.8
- 7 (N) BELT COURSE, SEE A8.5
- 8 (N) BENT PLATE, S&D
- 9 (N) DECK EDGE, SEE A8.6
- 10 (N) ACCESS DOOR, SEE A8.9
- 11 (N) ANGLE BELOW, S&D



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Fig. 9, The Embarcadero - San Francisco, California
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #3 REHABILITATION
 OF THE LOWER LIGHTHOUSE TOWER

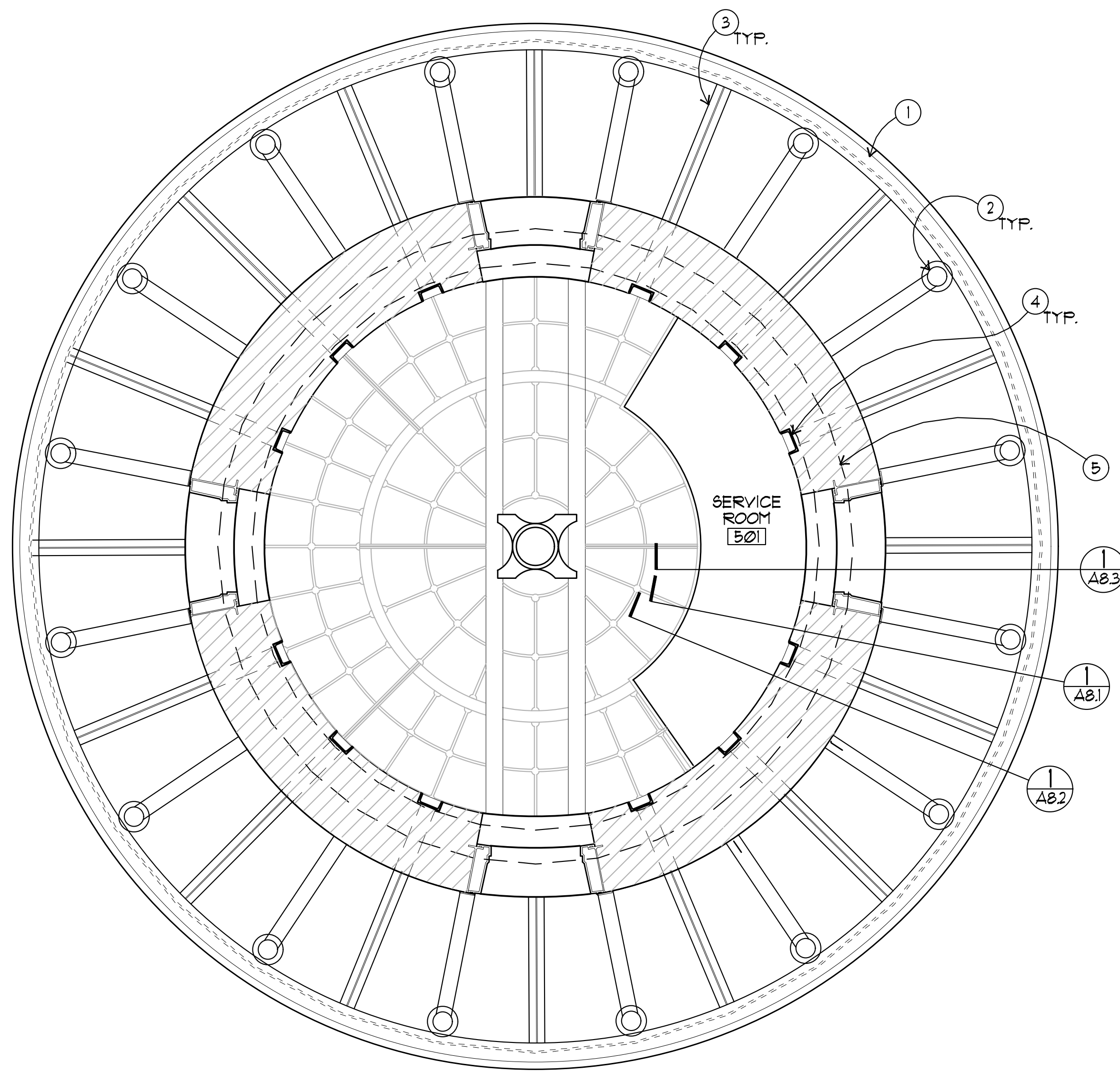
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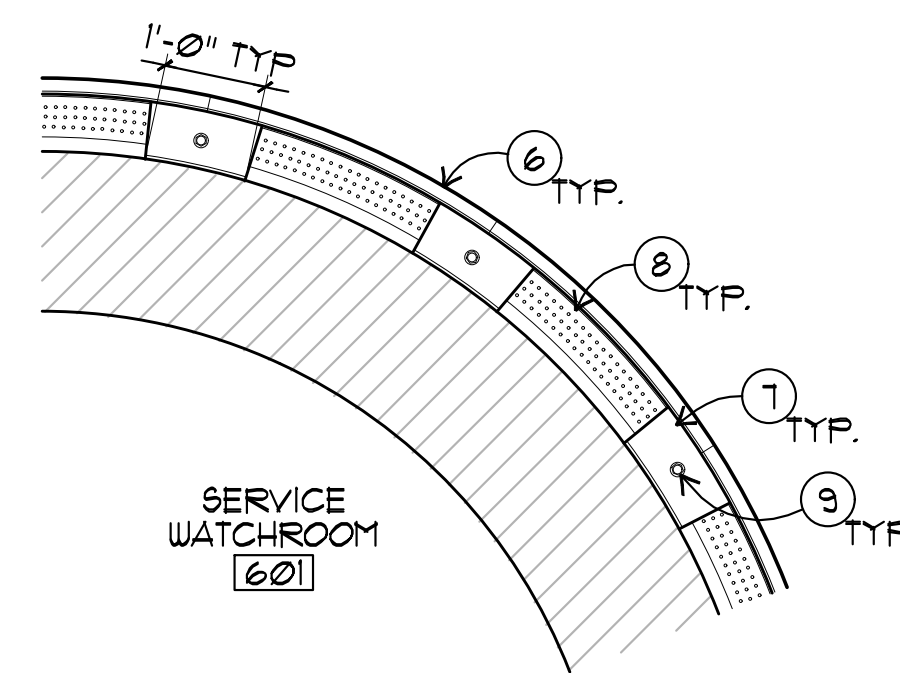
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A4.1-PE2

17 OF 54

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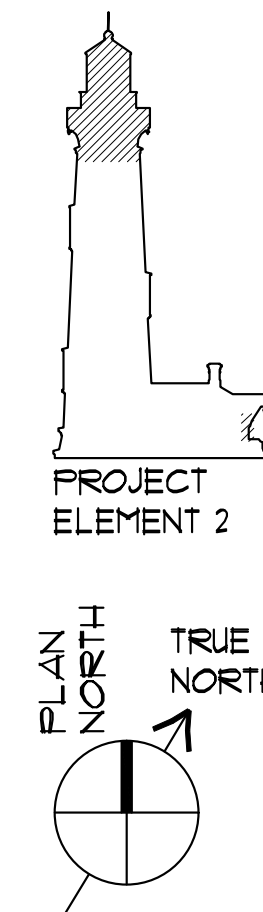
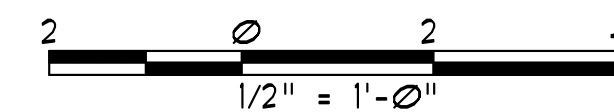
2 5TH LANDING (SERVICE ROOM) REFLECTED CEILING PLAN
 A6.1 SCALE: 1/2" = 1'-0"
 X-PLAN.BDUG



1 PARTIAL 6TH WATCHROOM REFLECTED CEILING PLAN
 A6.1 SCALE: 1/2" = 1'-0"
 X-PLAN.BDUG

ENLARGED PLAN KEYNOTES

- ① (N) GFRP PERIMETER FASCIA PLATES TO MATCH ORIGINAL.
- ② (E) BRACKET BELOW (N) 66 DECK PLATE.
- ③ (N) CANTILEVER BEAM. INSTALLED BELOW (N) DECK PLATES, 66D.
- ④ (N) STEEL CHANNEL AFFIXED TO INSIDE OF WALL, 66D.
- ⑤ (N) CONCRETE BOND BEAM, 66D.
- ⑥ (N) GFRP EDGE TRIM.
- ⑦ (N) STL ANGLE SUPPORT FOR RAILING STANDARDS ABOVE, 66D.
- ⑧ (N) VENTED BRONZE SOFFIT.
- ⑨ (N) RAILING STANDARD BOLT.



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Fig. 9, The Embarcadero - San Francisco, California
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REFLECTED CEILING PLANS

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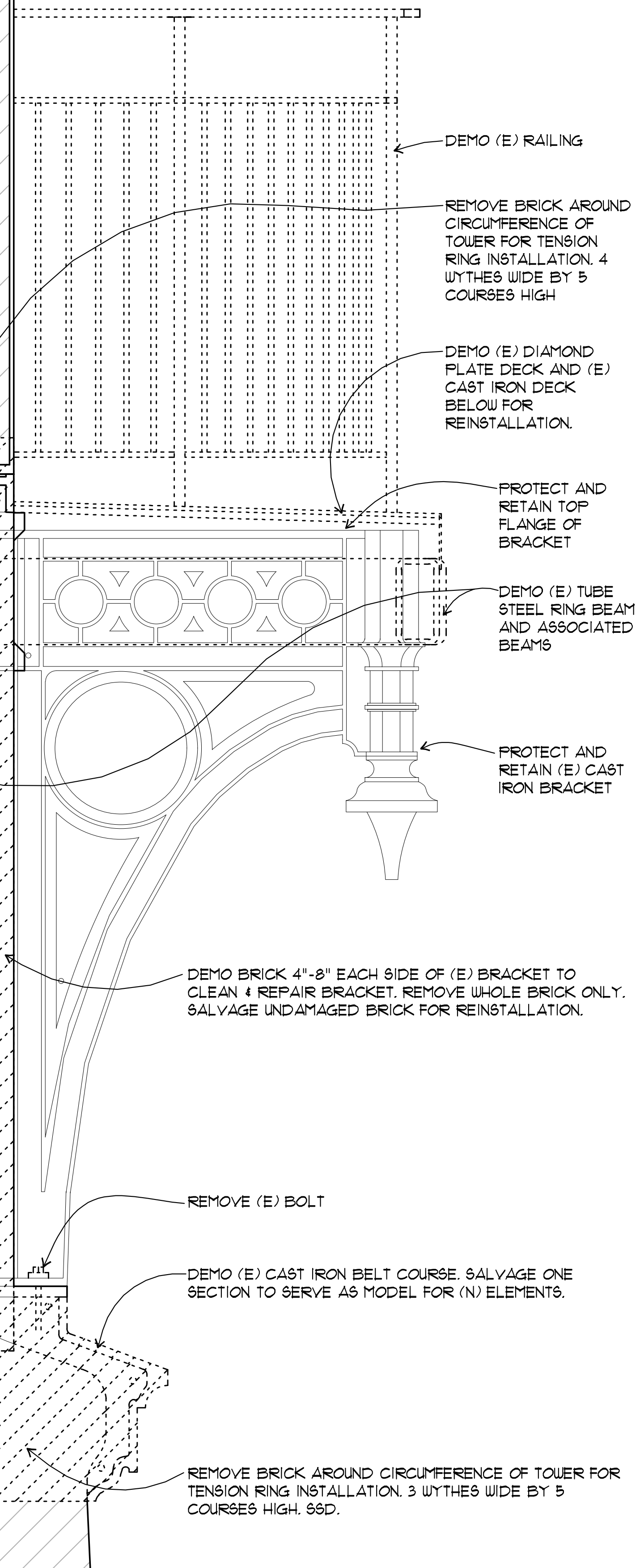
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A6.1-PE2

18 OF 54

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GALLERY & WATCHROOM
[E01]

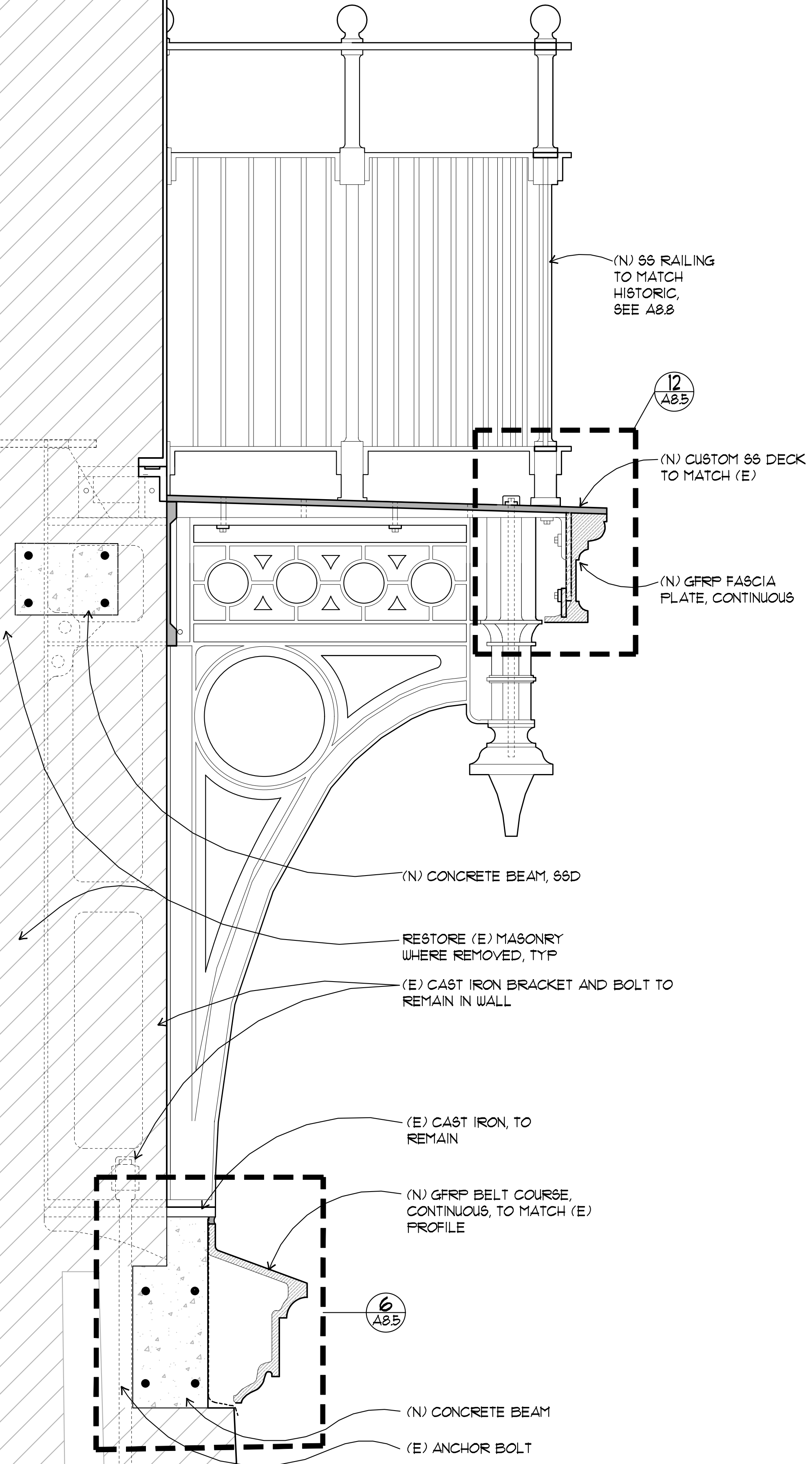
SERVICE ROOM
[B01]



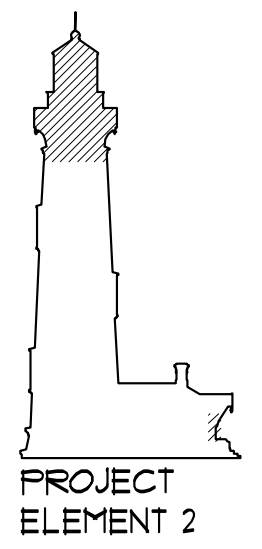
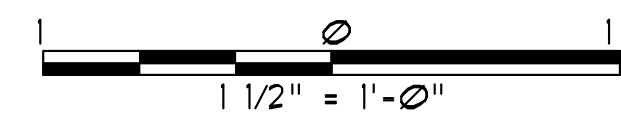
2 WALL SECTION AT BRACKET - DEMOLITION
A8.1 SCALE: 1-1/2" = 1'-0"
X-DETAILS-UPPER TOWER

GALLERY & WATCHROOM
[E01]

SERVICE ROOM
[B01]



1 WALL SECTION AT BRACKET - NEW WORK
A8.1 SCALE: 1-1/2" = 1'-0"
X-DETAILS-UPPER TOWER



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PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER
WALL SECTIONS

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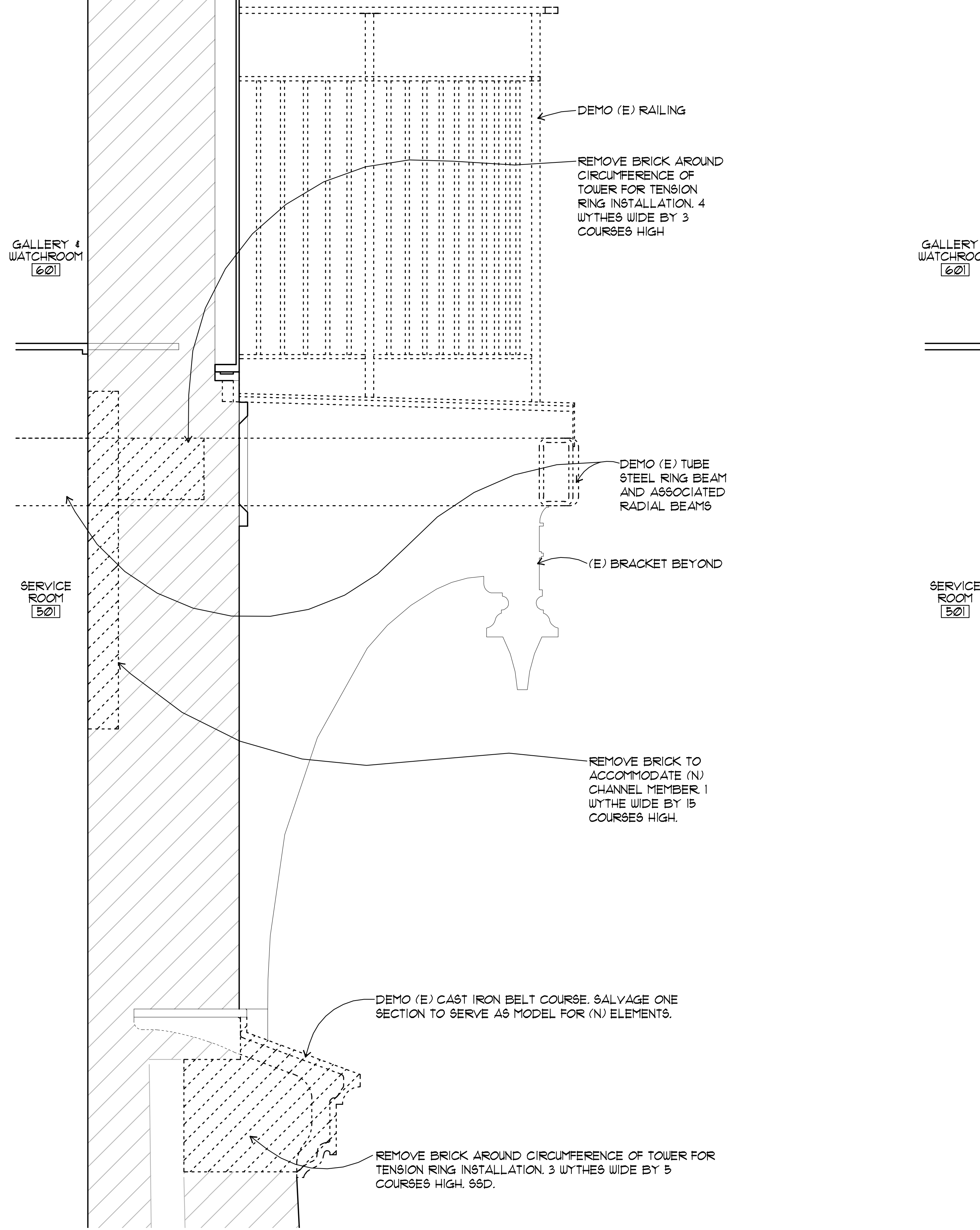
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19 OF 54

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GALLERY & WATCHROOM
[60]

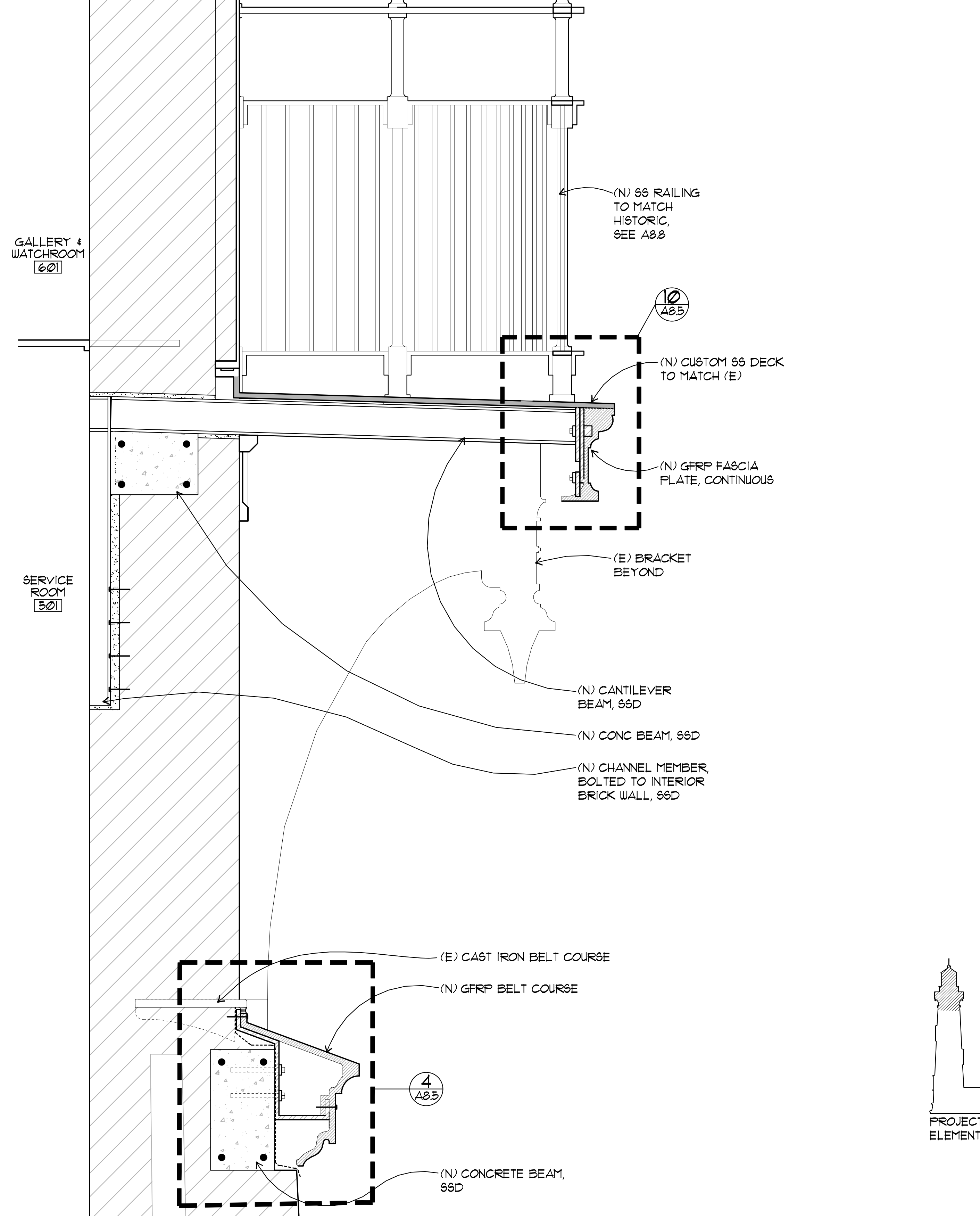
SERVICE ROOM
[50]



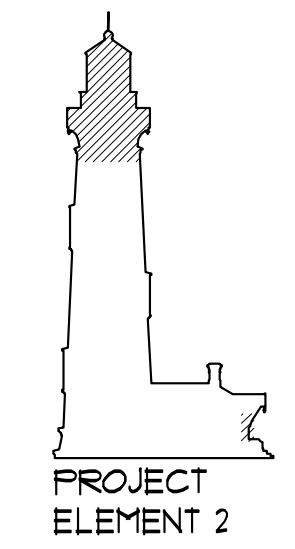
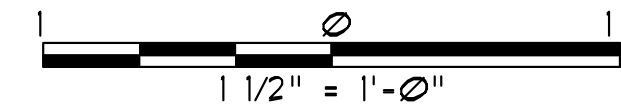
2 WALL SECTION BETWEEN BRACKETS - DEMOLITION
A8.2 SCALE: 1-1/2" = 1'-0"
X-DETAILS-UPPER TOWER

GALLERY & WATCHROOM
[60]

SERVICE ROOM
[50]



1 WALL SECTION BETWEEN BRACKETS - NEW WORK
A8.2 SCALE: 1-1/2" = 1'-0"
X-DETAILS-UPPER TOWER



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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER

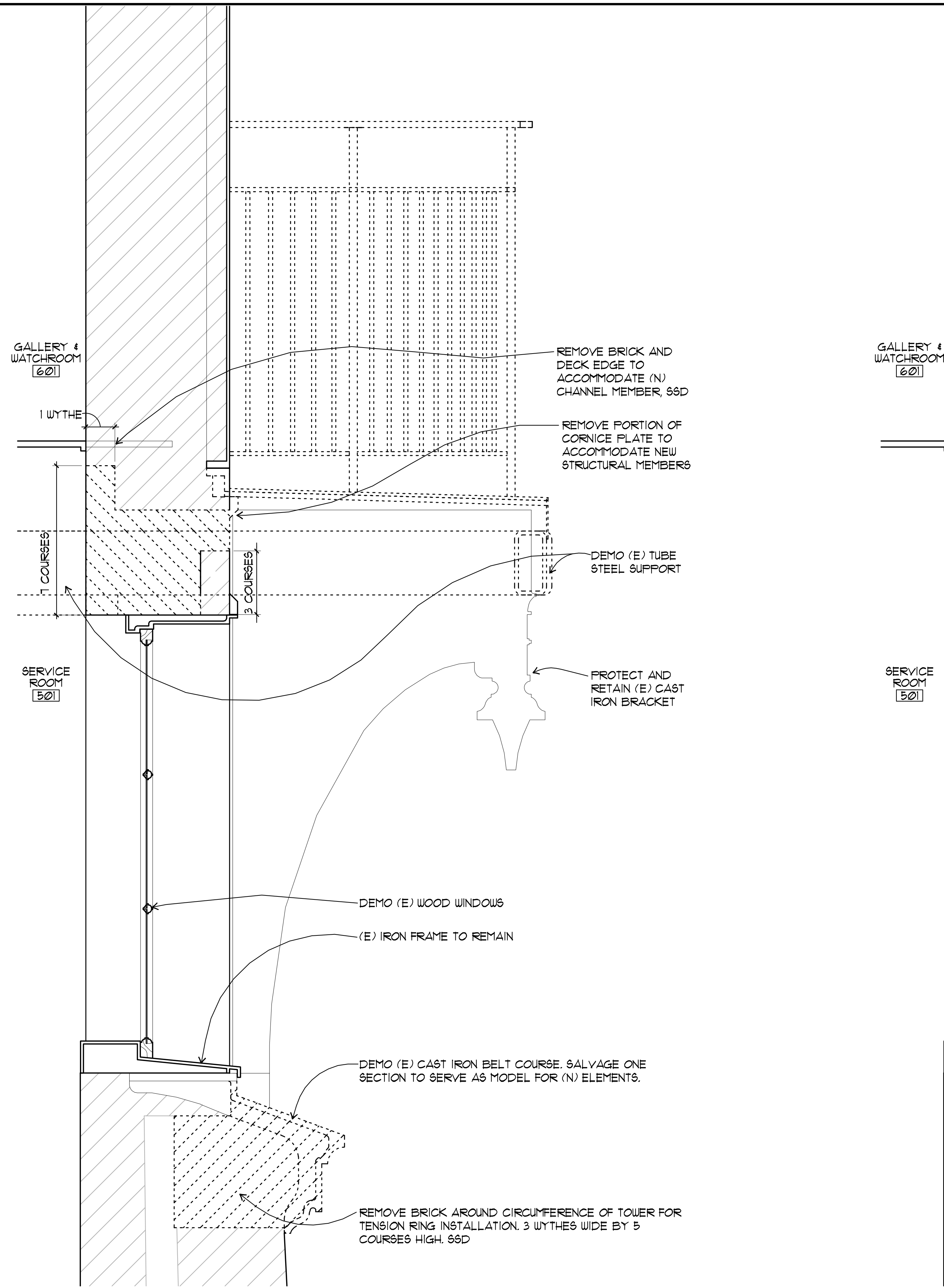
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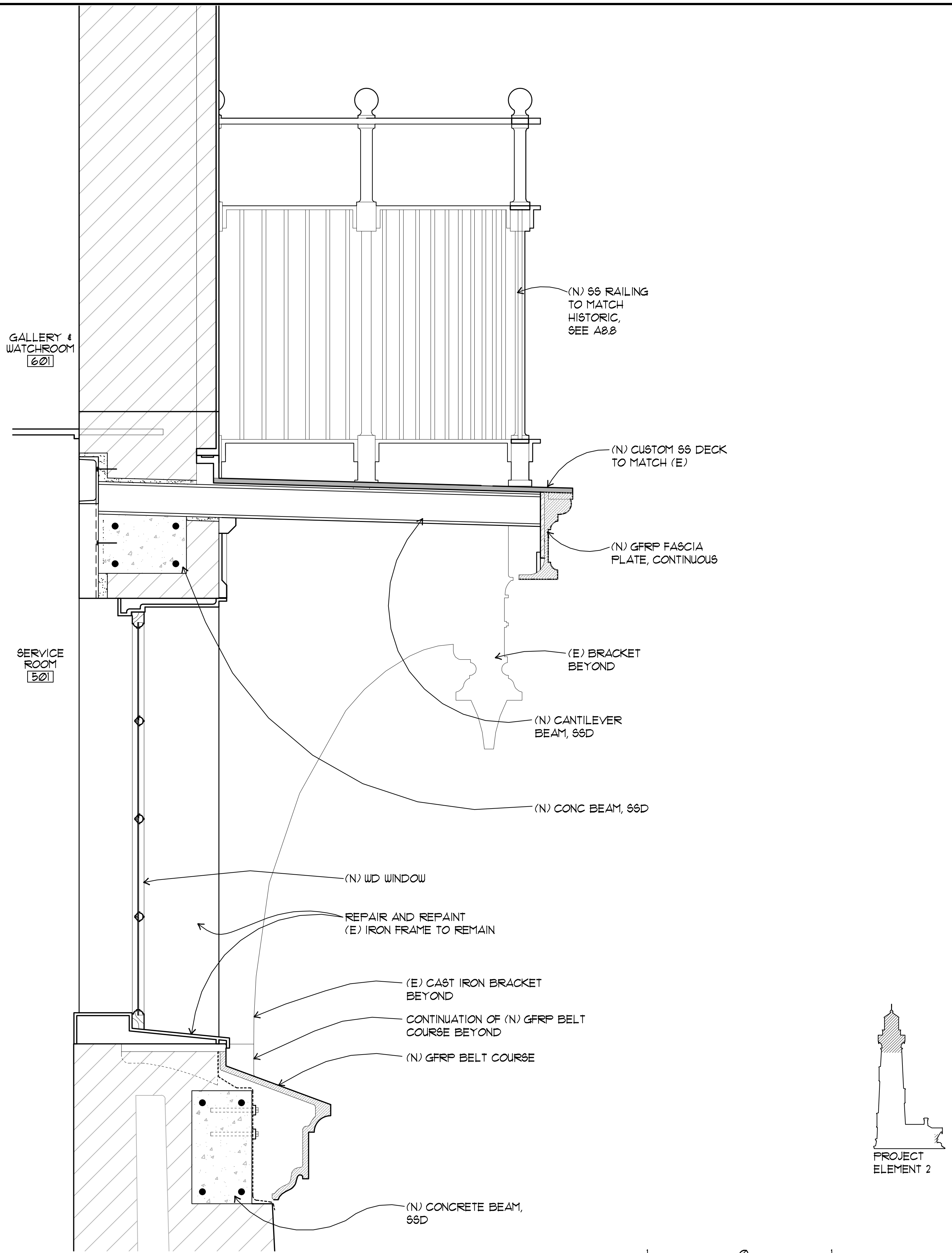
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20 OF 54

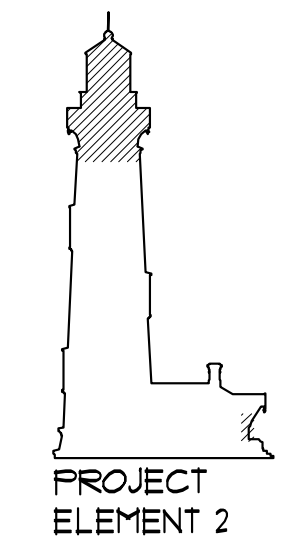
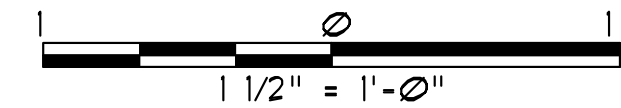
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2 WALL SECTION AT WINDOWS - DEMOLITION
 A8.3 SCALE: 1-1/2" = 1'-0"
 X-DETAILS-UPPER TOWER



1 WALL SECTION AT WINDOWS - NEW WORK
 A8.3 SCALE: 1-1/2" = 1'-0"
 X-DETAILS-UPPER TOWER



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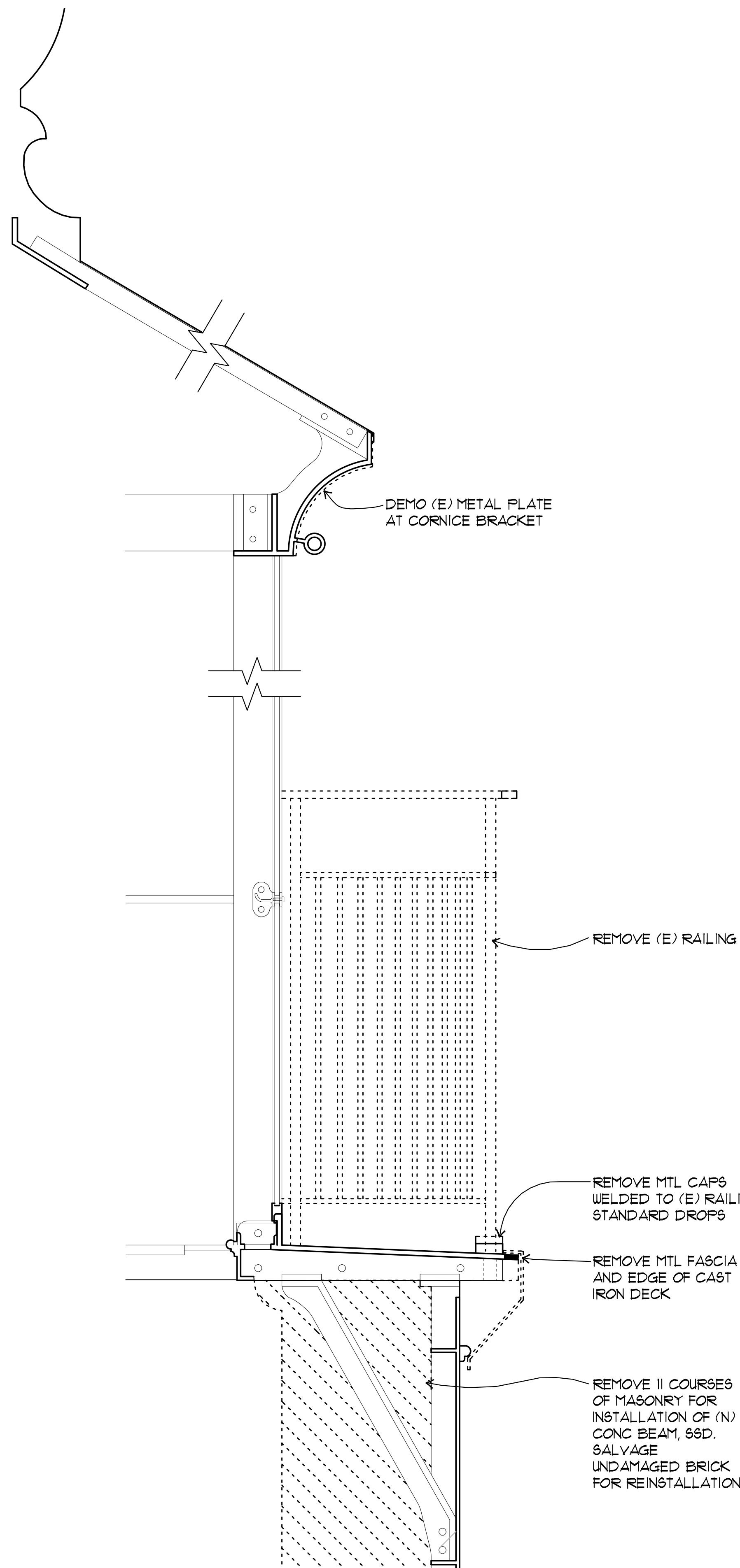
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WALL SECTIONS

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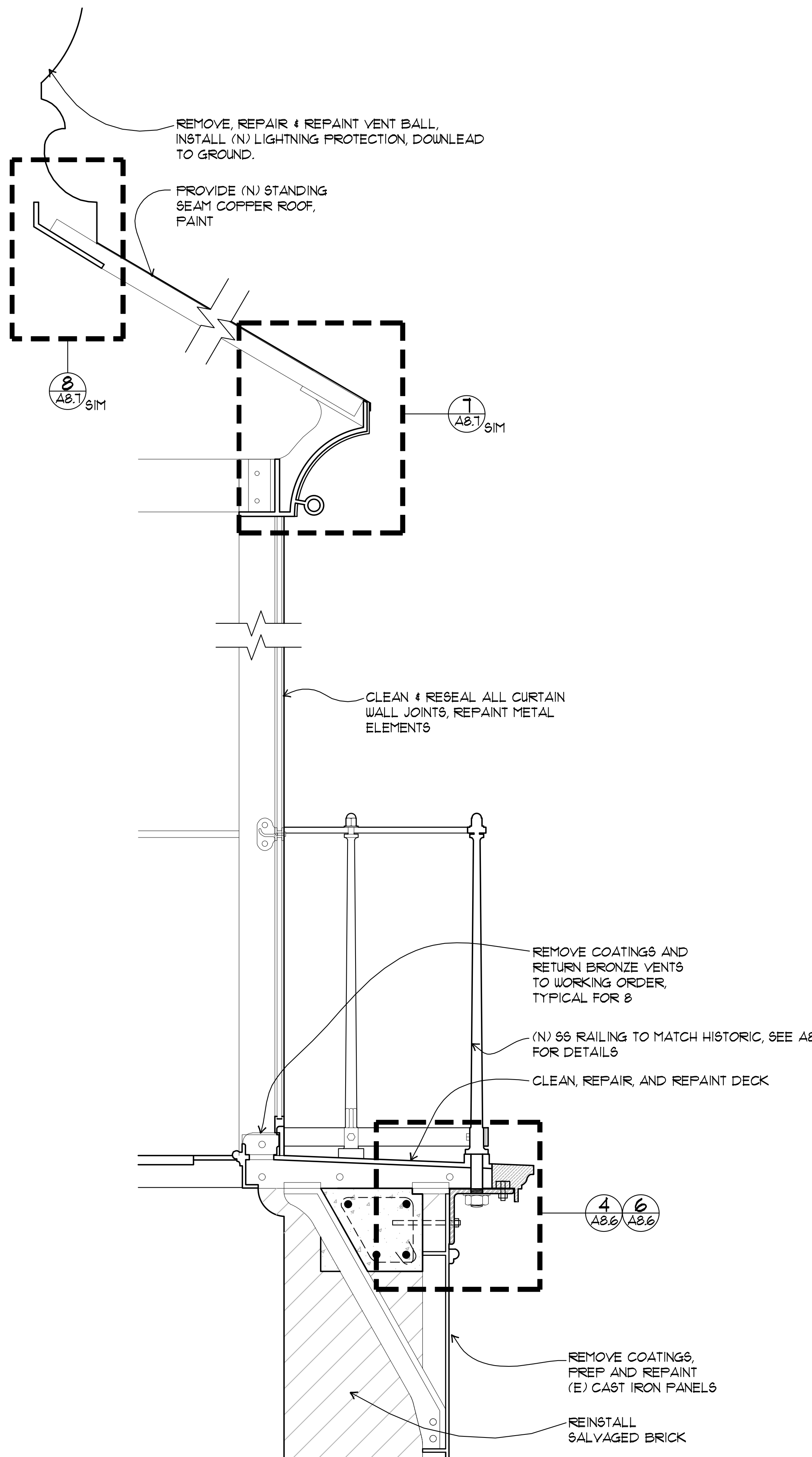
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21 OF 54

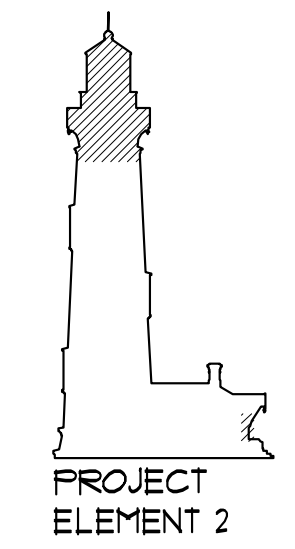
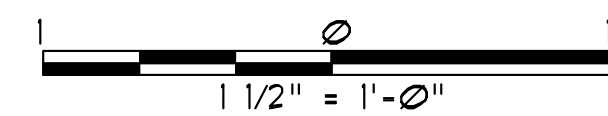
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2 WALL SECTION - DEMOLITION
A8.4 SCALE: 1-1/2" = 1'-0"
 X-ELEVATIONS



1 WALL SECTION - NEW WORK
A8.4 SCALE: 1-1/2" = 1'-0"
 X-ELEVATIONS



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Fig 9, The Embarcadero - San Francisco, California
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WALL SECTIONS

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22 OF 54



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Fig. 9, The Embarcadero - San Francisco, California
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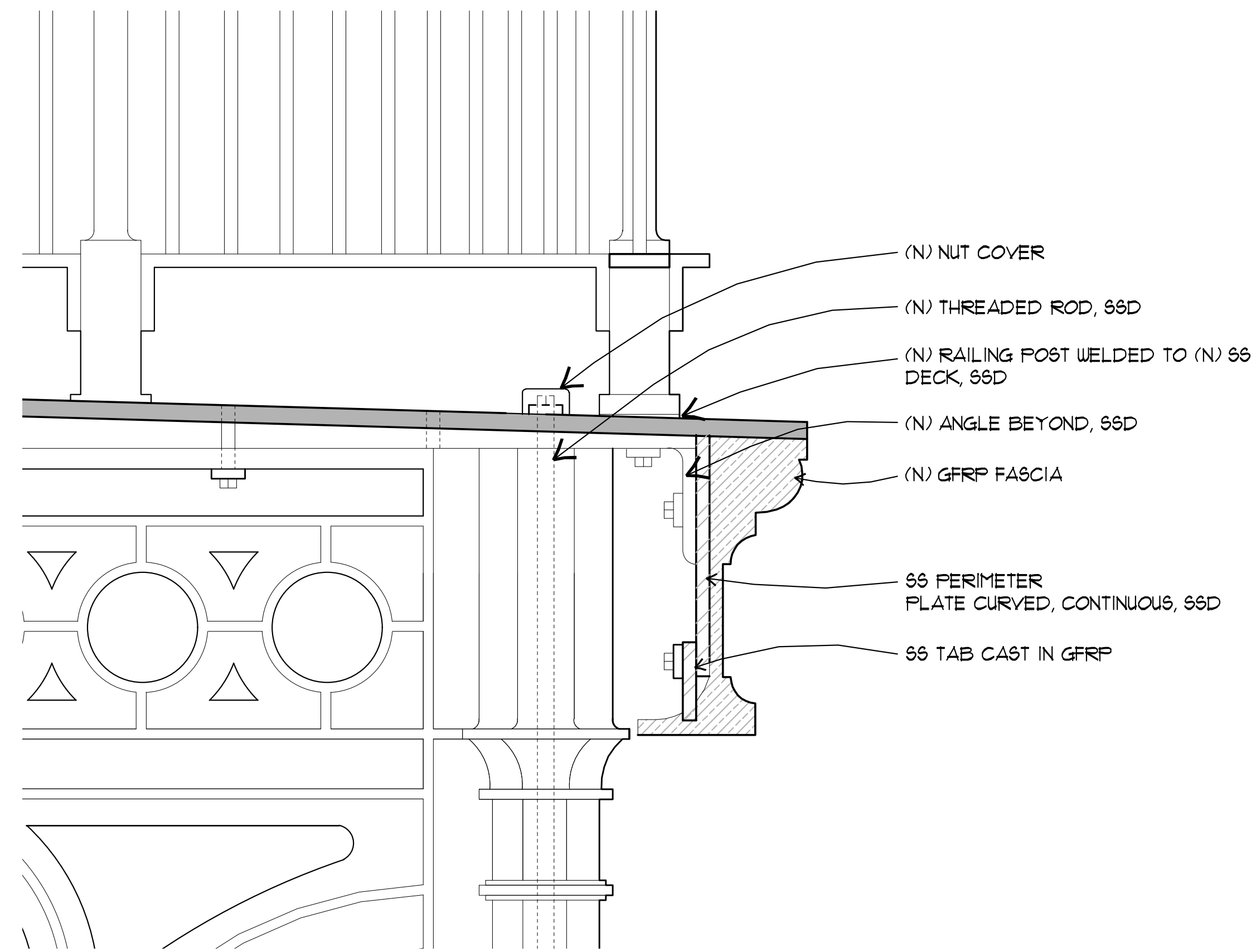
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PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER

EXTERIOR DETAILS

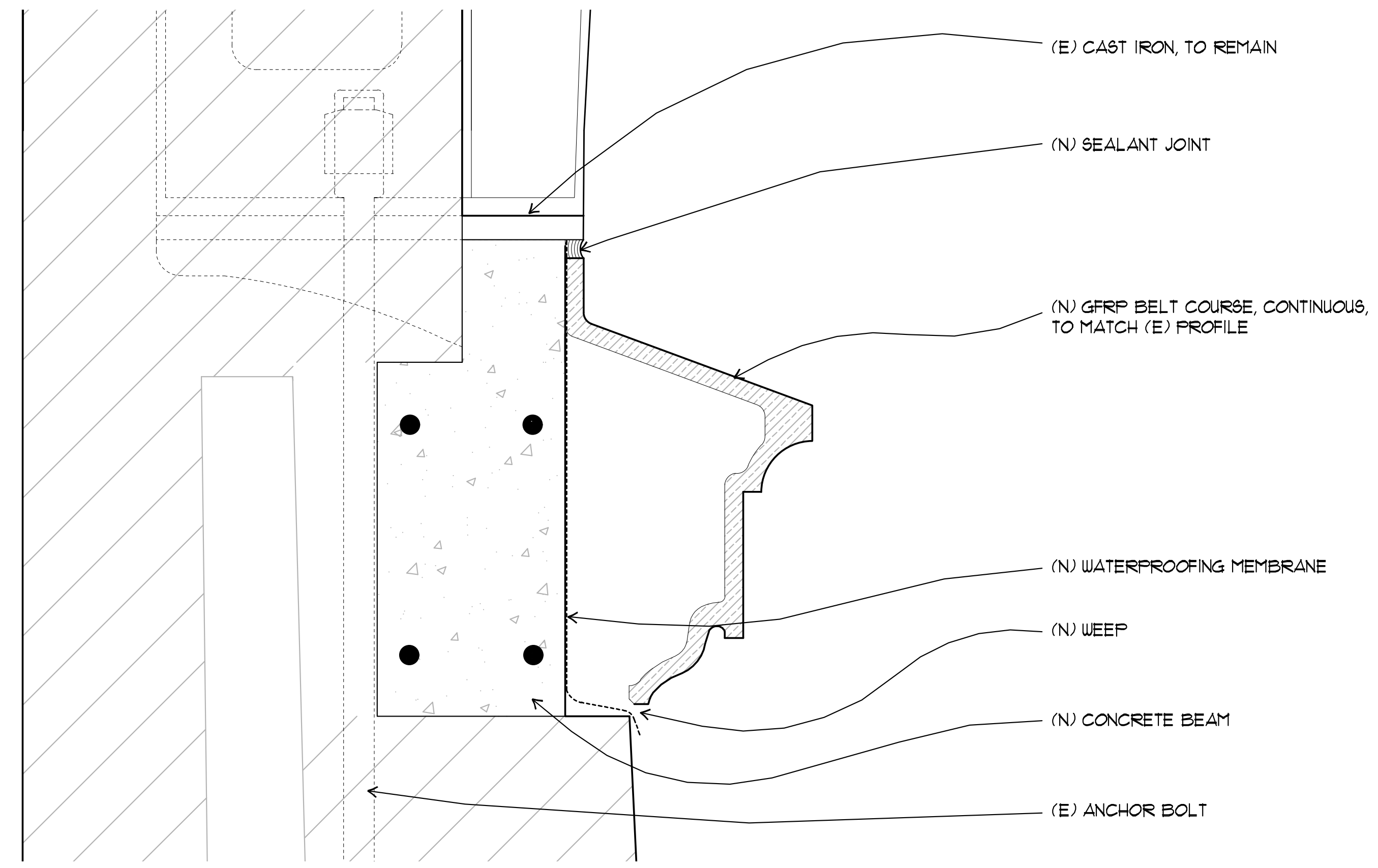
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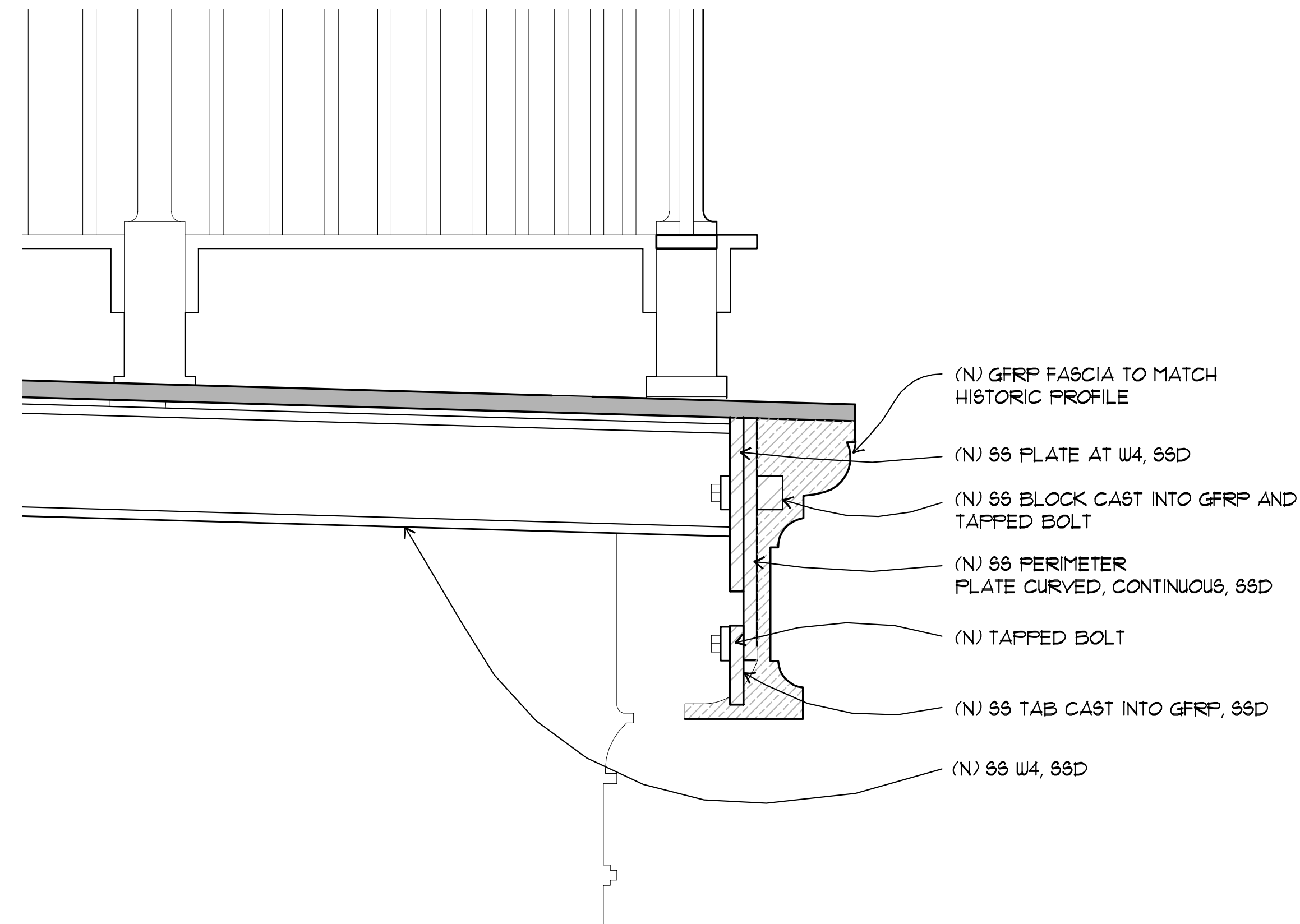
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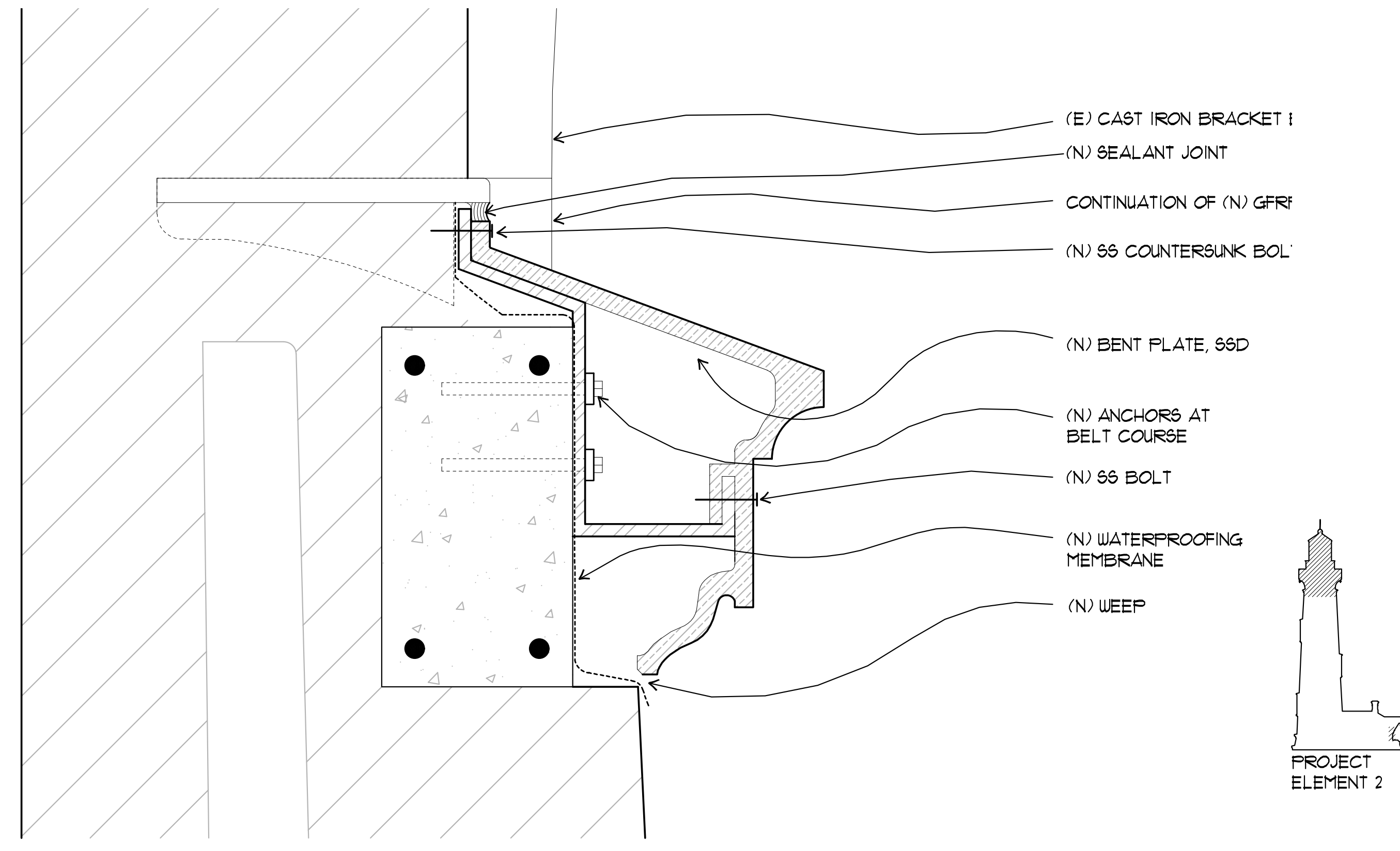
12 DETAIL SECTION - GALLERY DECK FASCIA AT BRACKET
A8.5 SCALE: 1" = 1'-0"
X-DETAILS-UPPER TOWER



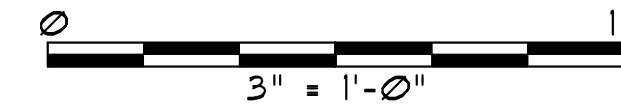
6 DETAIL SECTION - BELT COURSE AT BRACKET
A8.5 SCALE: 3" = 1'-0"
X-DETAILS-UPPER TOWER



10 DETAIL SECTION - GALLERY DECK FASCIA AT (N) BEAM
A8.5 SCALE: 1" = 1'-0"
X-DETAILS-UPPER TOWER



4 DETAIL SECTION - BELT COURSE BETWEEN BRACKETS
A8.5 SCALE: 1" = 1'-0"
X-DETAILS-UPPER TOWER



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Fig. 9, The Embarcadero - San Francisco, California
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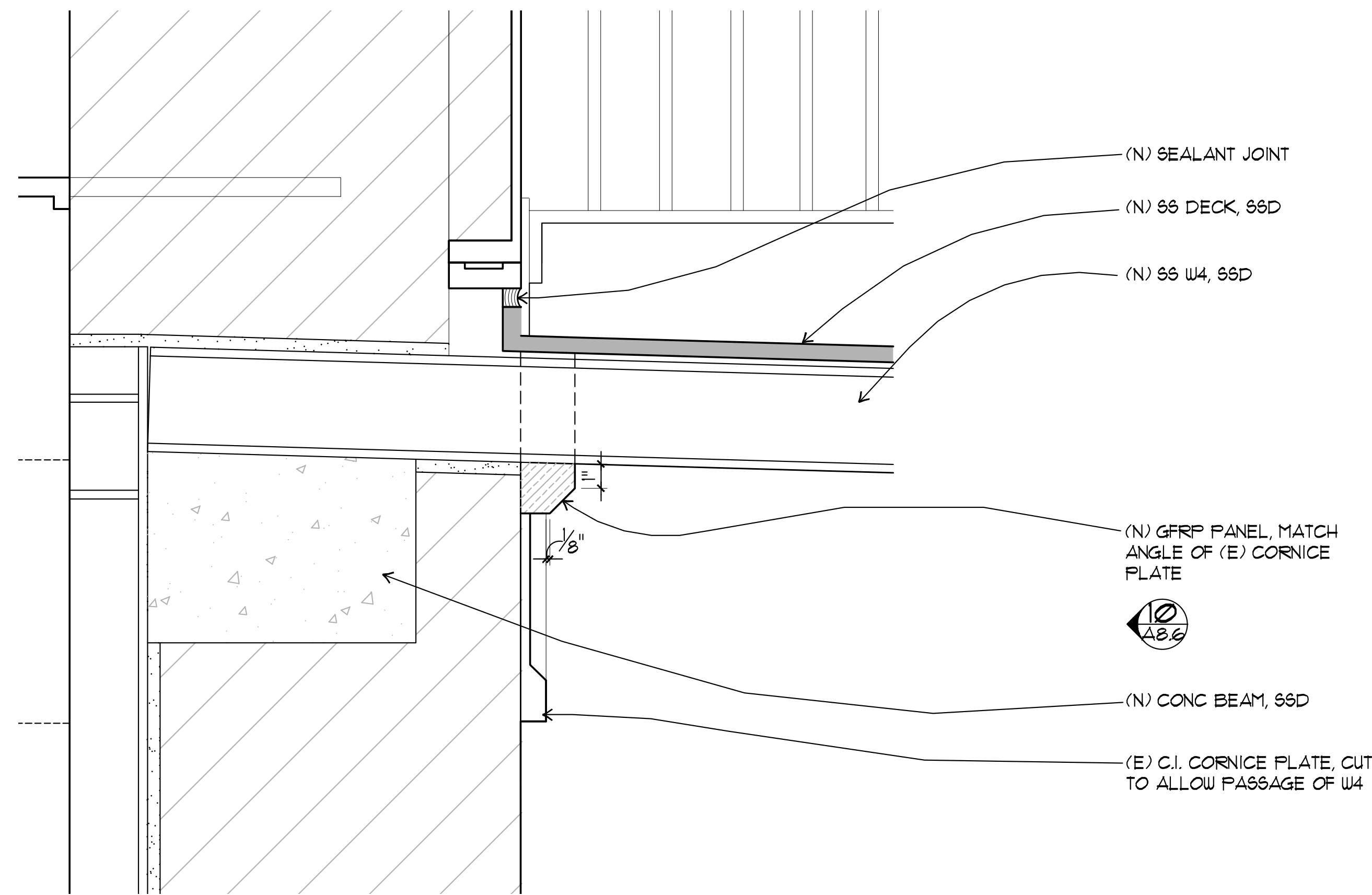
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PROJECT ELEMENT #3 REHABILITATION
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EXTERIOR DETAILS

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SHEET NO.
A8.6-PE2

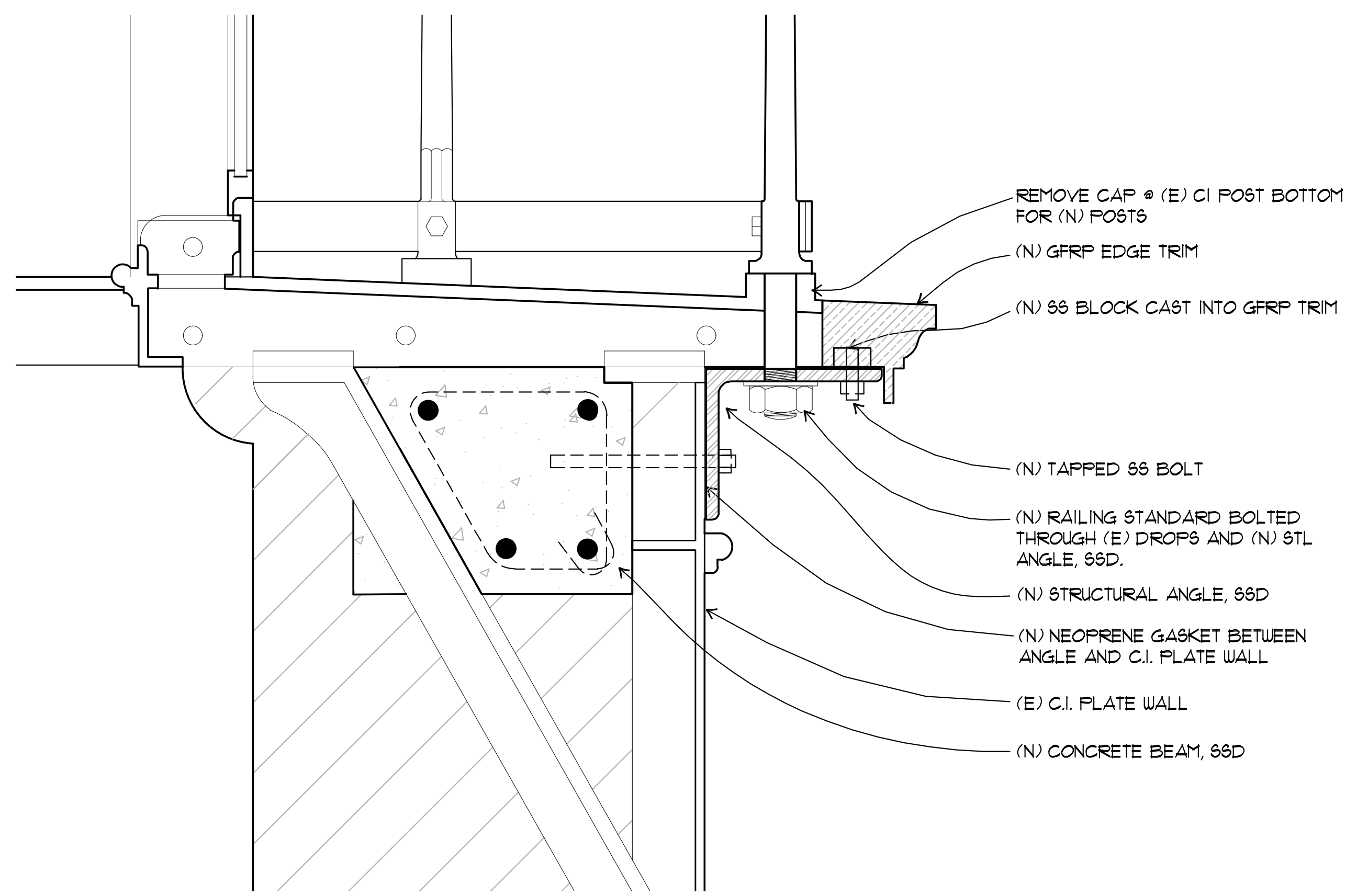
24 OF 54



12 DETAIL SECTION - CORNICE PLATES AT (N) BEAM

SCALE: 3" = 1'-0"

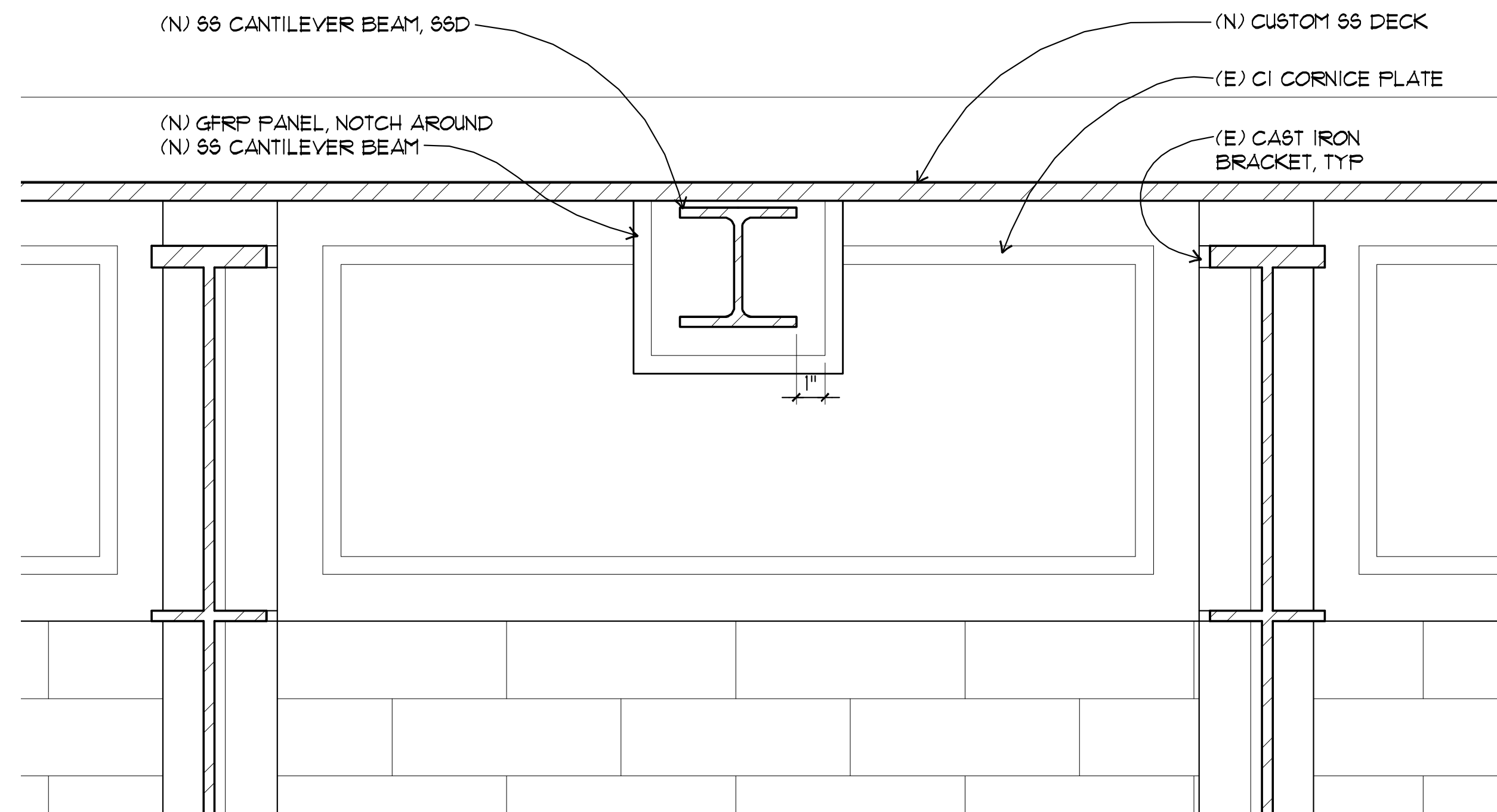
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6 DETAIL SECTION - LANTERN GALLERY DECK AT (N) ANGLE

SCALE: 3" = 1'-0"

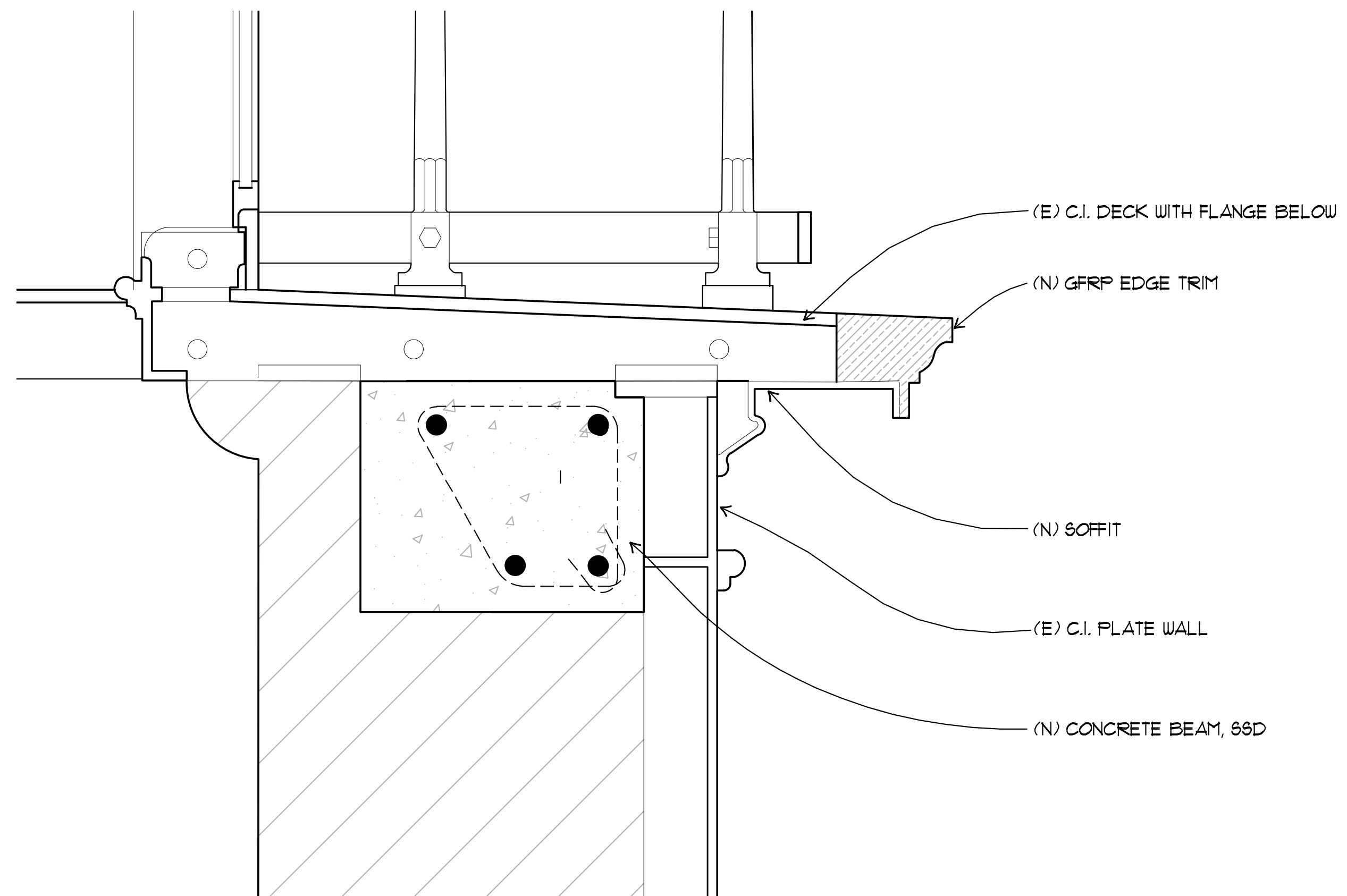
X-DETAILS-UPPER TOWER



10 DETAIL ELEVATION - CORNICE PLATES AT (N) BEAM

SCALE: 3" = 1'-0"

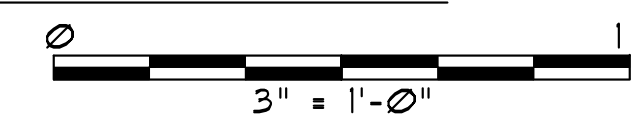
X-DETAILS-ELEVATION



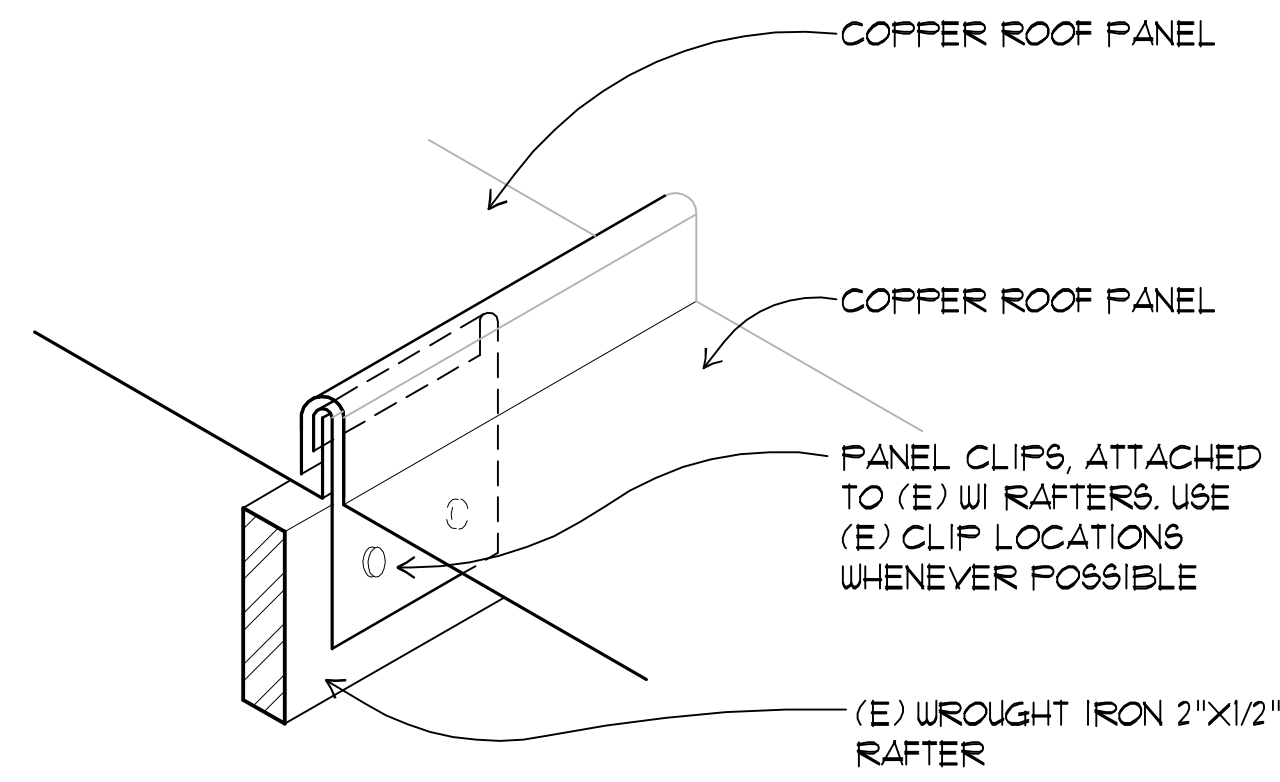
4 DETAIL SECTION - LANTERN GALLERY DECK BETWEEN (N) ANGLES

SCALE: 3" = 1'-0"

X-DETAILS-UPPER TOWER



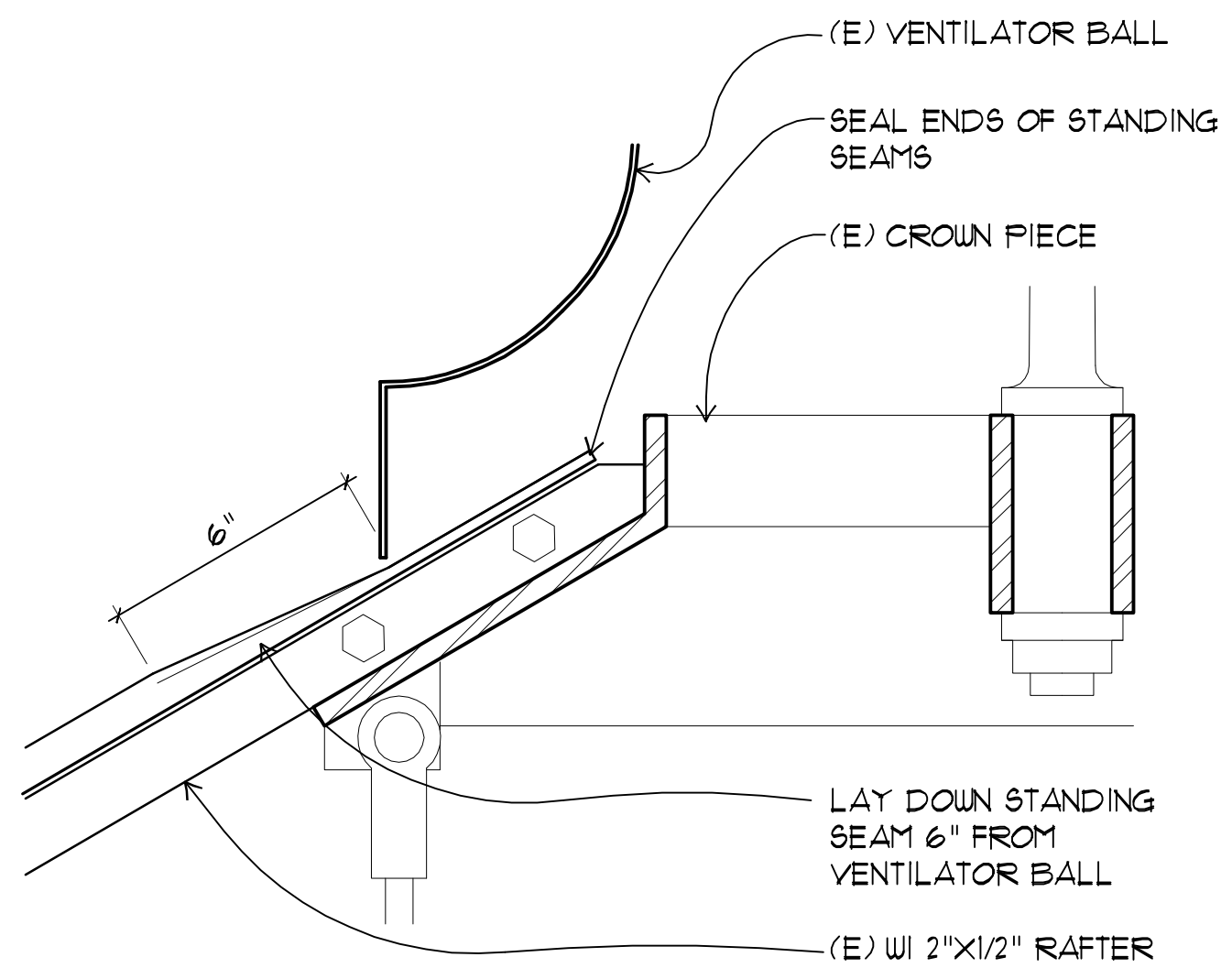
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TYP. PANEL CONNECTION AT RAFTERS

SCALE: NT5

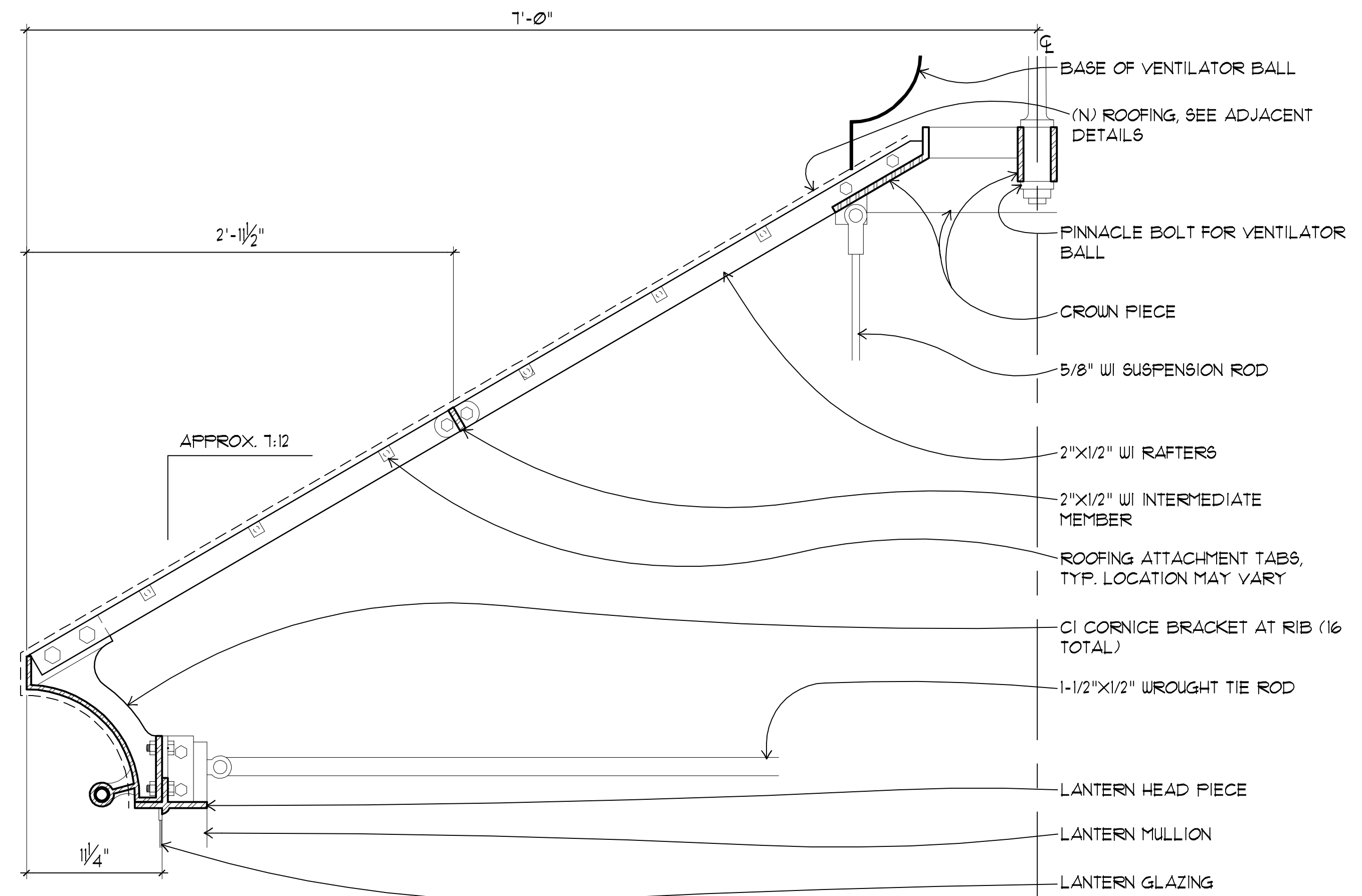
x-detail@roof.dwg



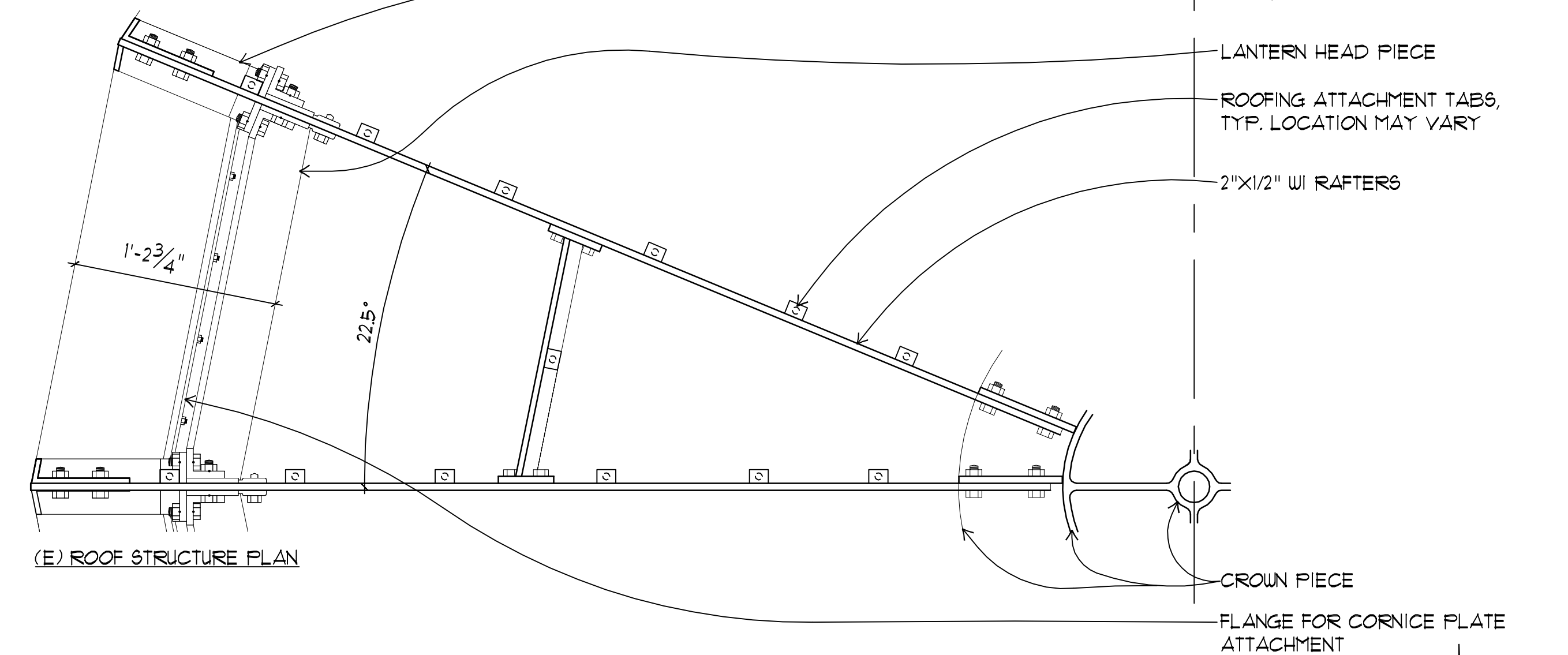
LANTERN ROOF SECTION DETAIL AT VENT. BALL

SCALE: 3" = 1'-0"

x-detail@roof.dwg



(E) ROOF STRUCTURE SECTION



(E) ROOF STRUCTURE

SCALE: 1-1/2" = 1'-0"

x-detail@roof.dwg



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Fig 9. The Embarcadero - San Francisco, California
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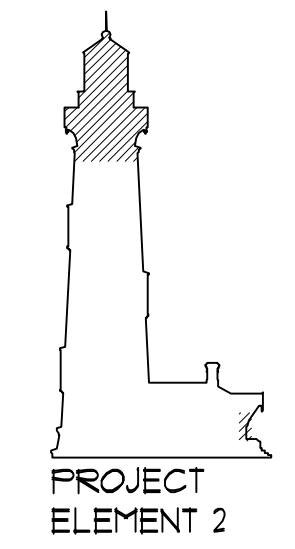
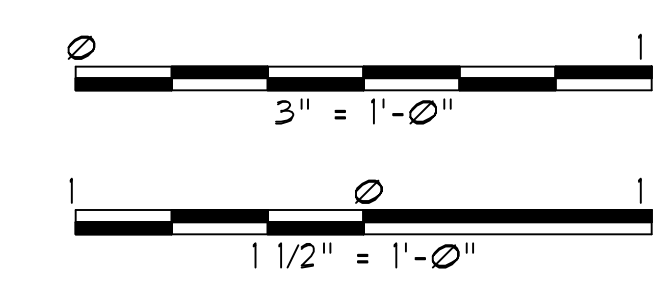
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PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER

LANTERN ROOF DETAILS

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25 OF 54





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Fig 9, The Embarcadero - San Francisco, California
 4/14/02-0/00 4/14/02-0/00

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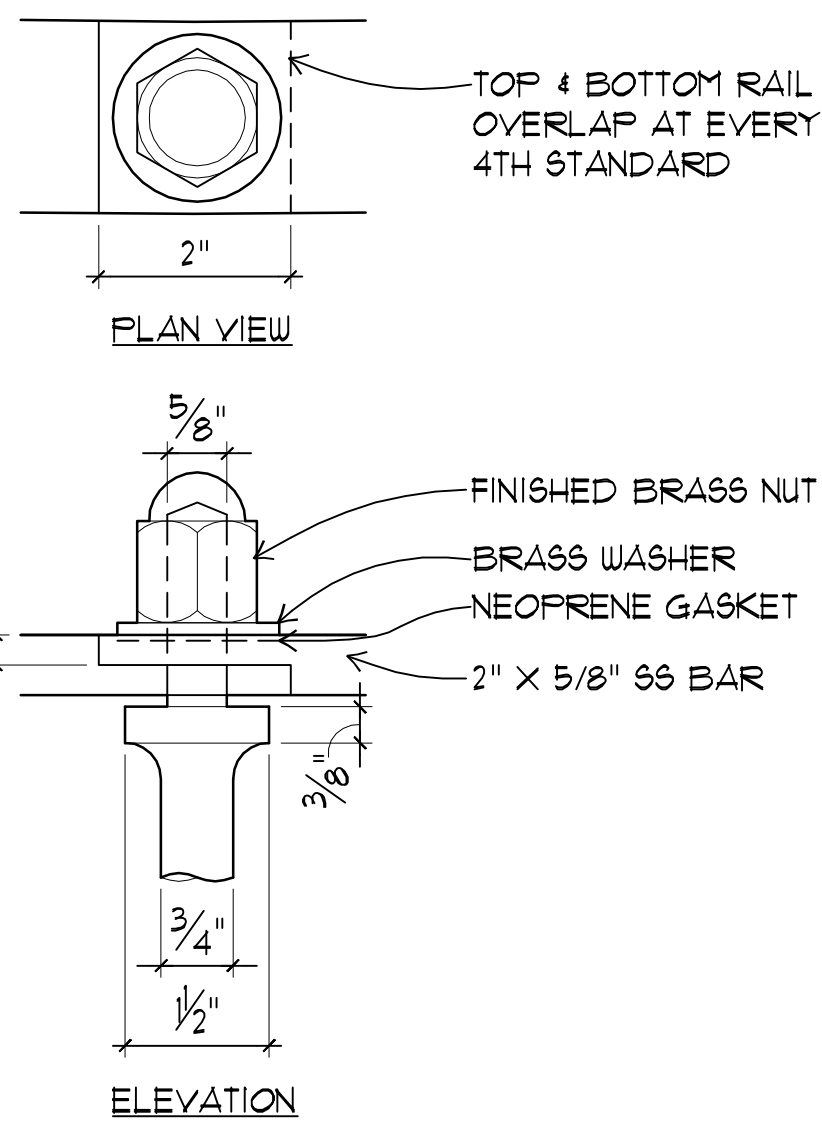
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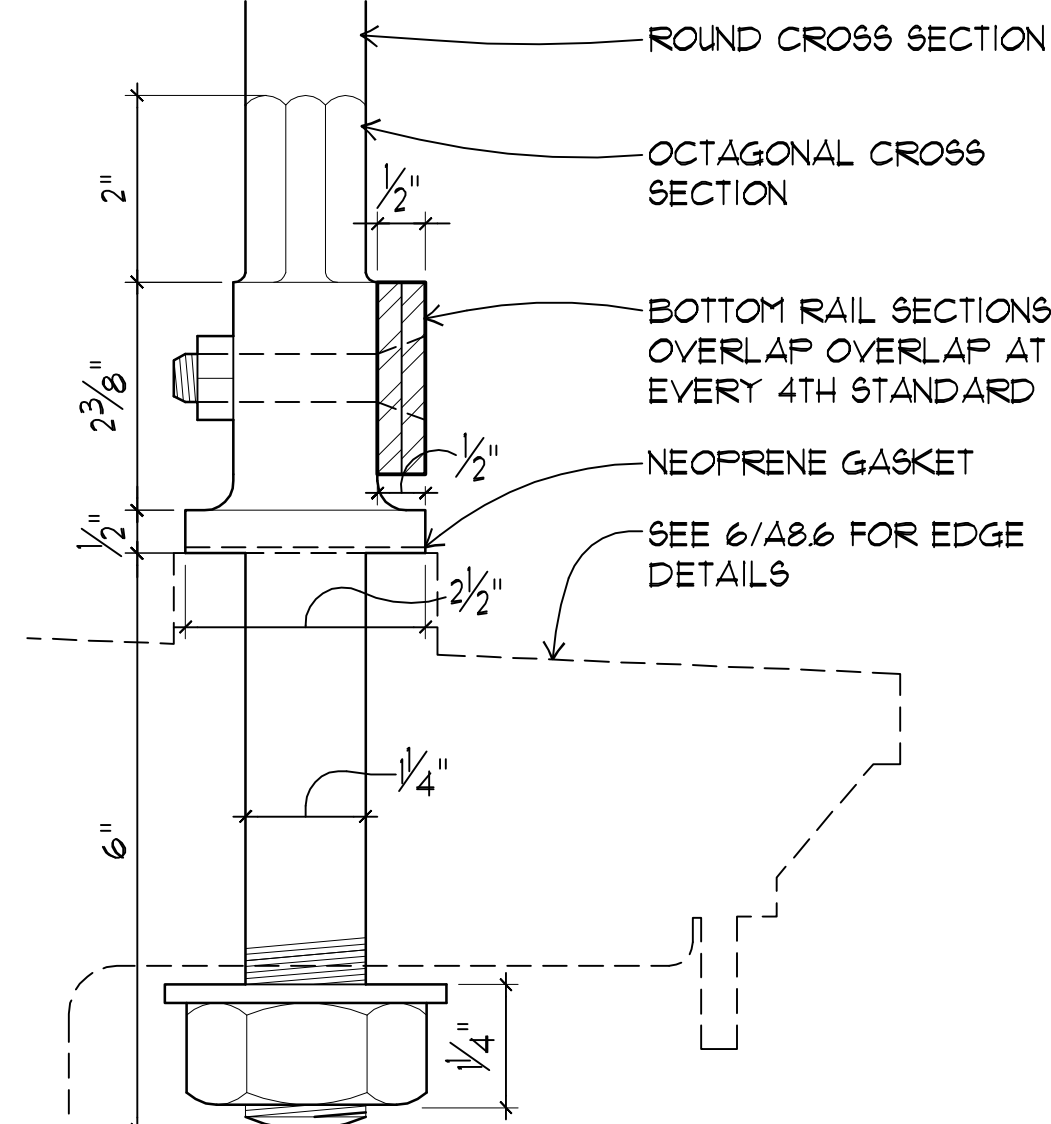
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER

RAILING DETAILS

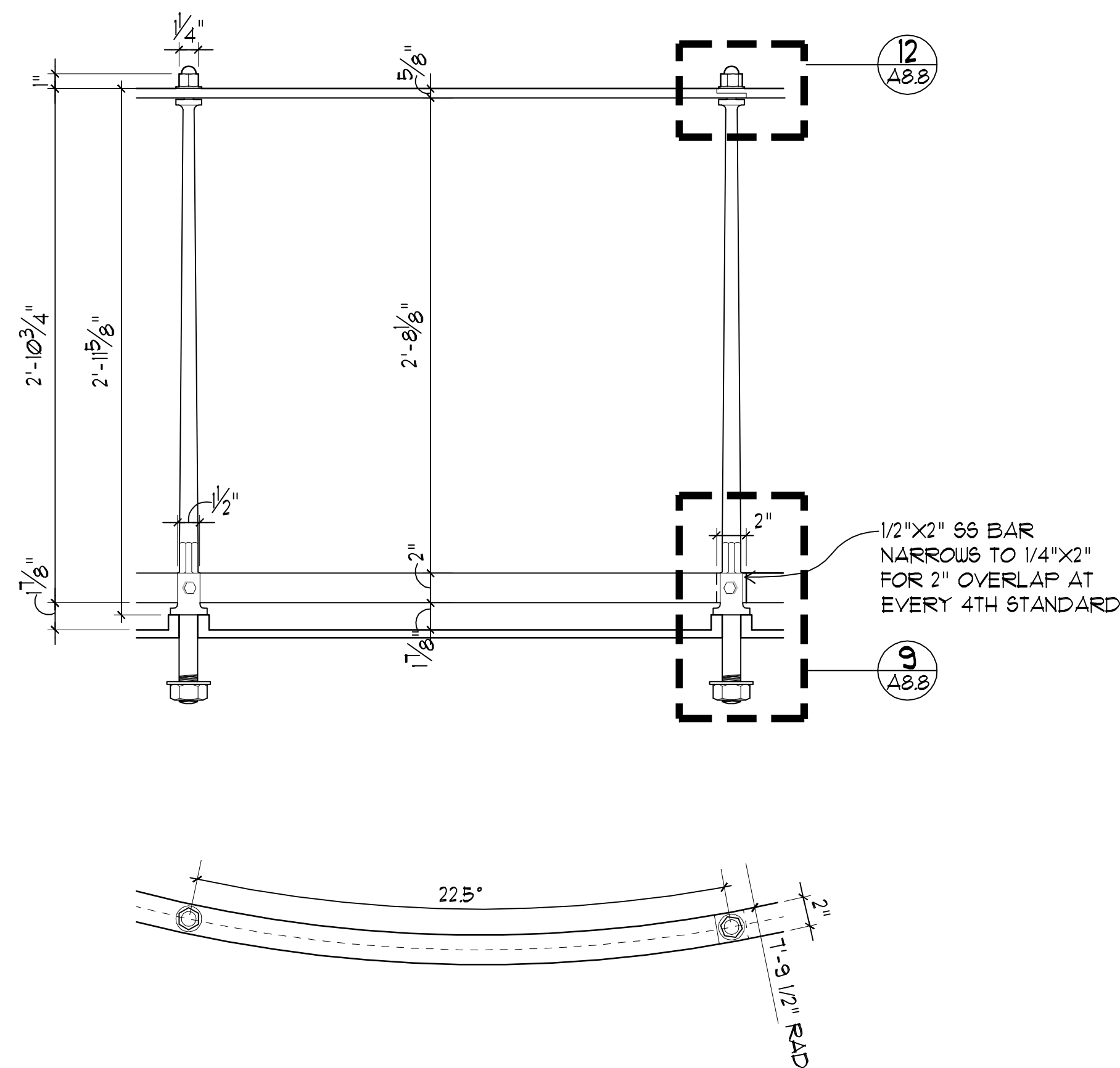
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 26 OF 54



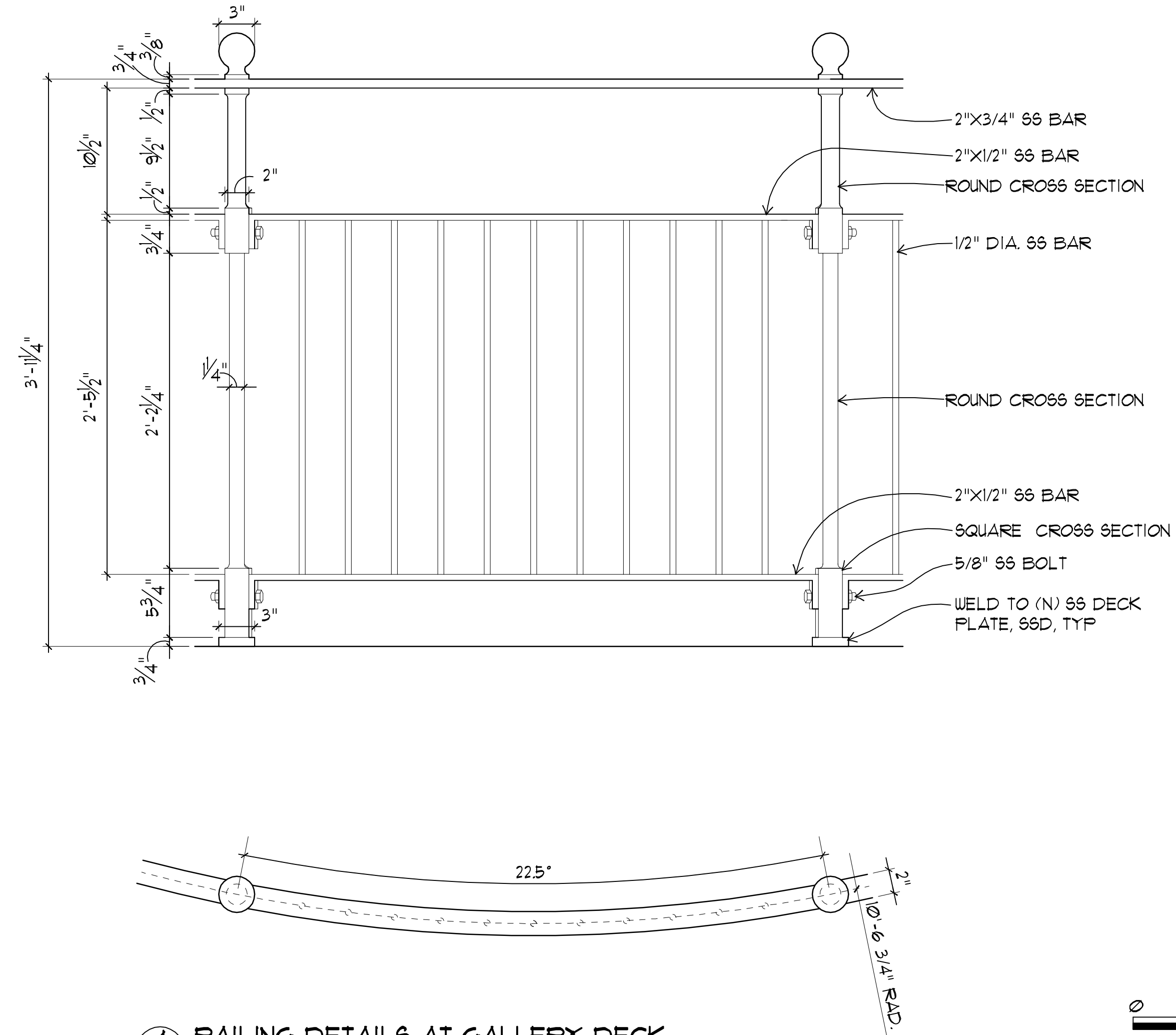
12 LANTERN DECK STANDARD CAP
 A8.8 SCALE: 6" = 1'-0"
 x-detailed-lower railings.dwg



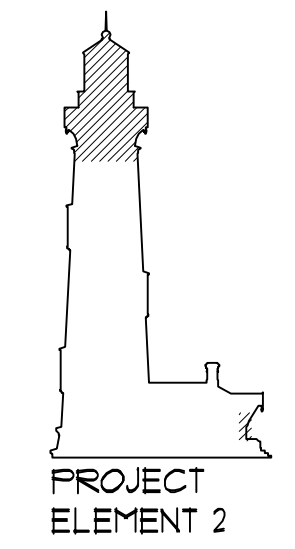
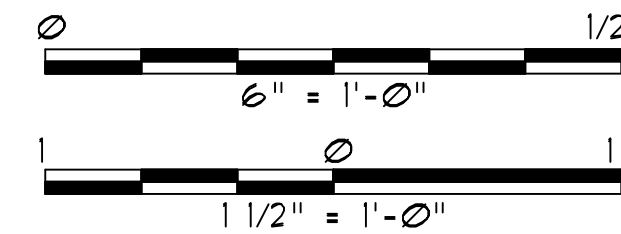
9 LANTERN DECK ACCESS DOOR DETAILS
 A8.8 SCALE: 6" = 1'-0"
 x-detailed-lower railings.dwg



10 RAILING DETAILS AT LANTERN DECK
 A8.8 SCALE: 1-1/2" = 1'-0"
 x-detailed-lower railings.dwg



4 RAILING DETAILS AT GALLERY DECK
 A8.8 SCALE: 1-1/2" = 1'-0"
 x-detailed-lower railings.dwg



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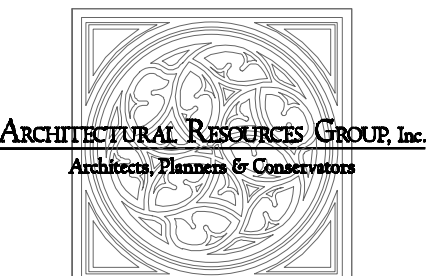


Fig. 9, The Embarcadero - San Francisco, California
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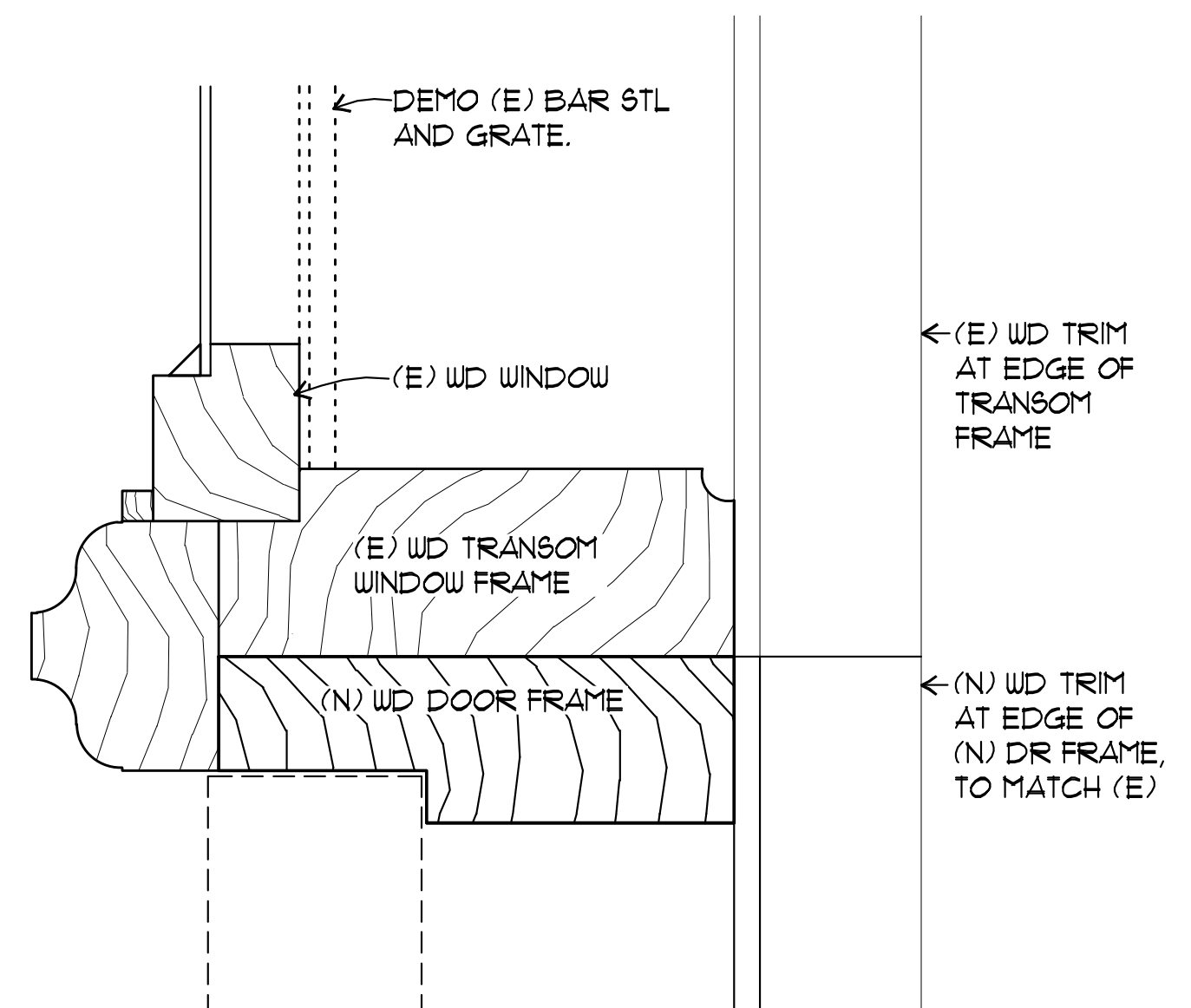
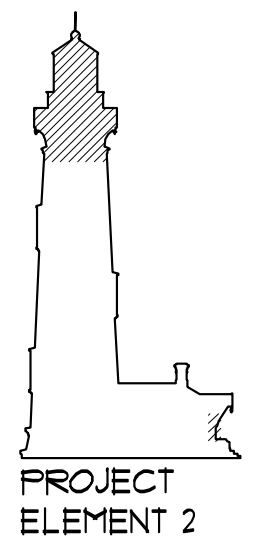
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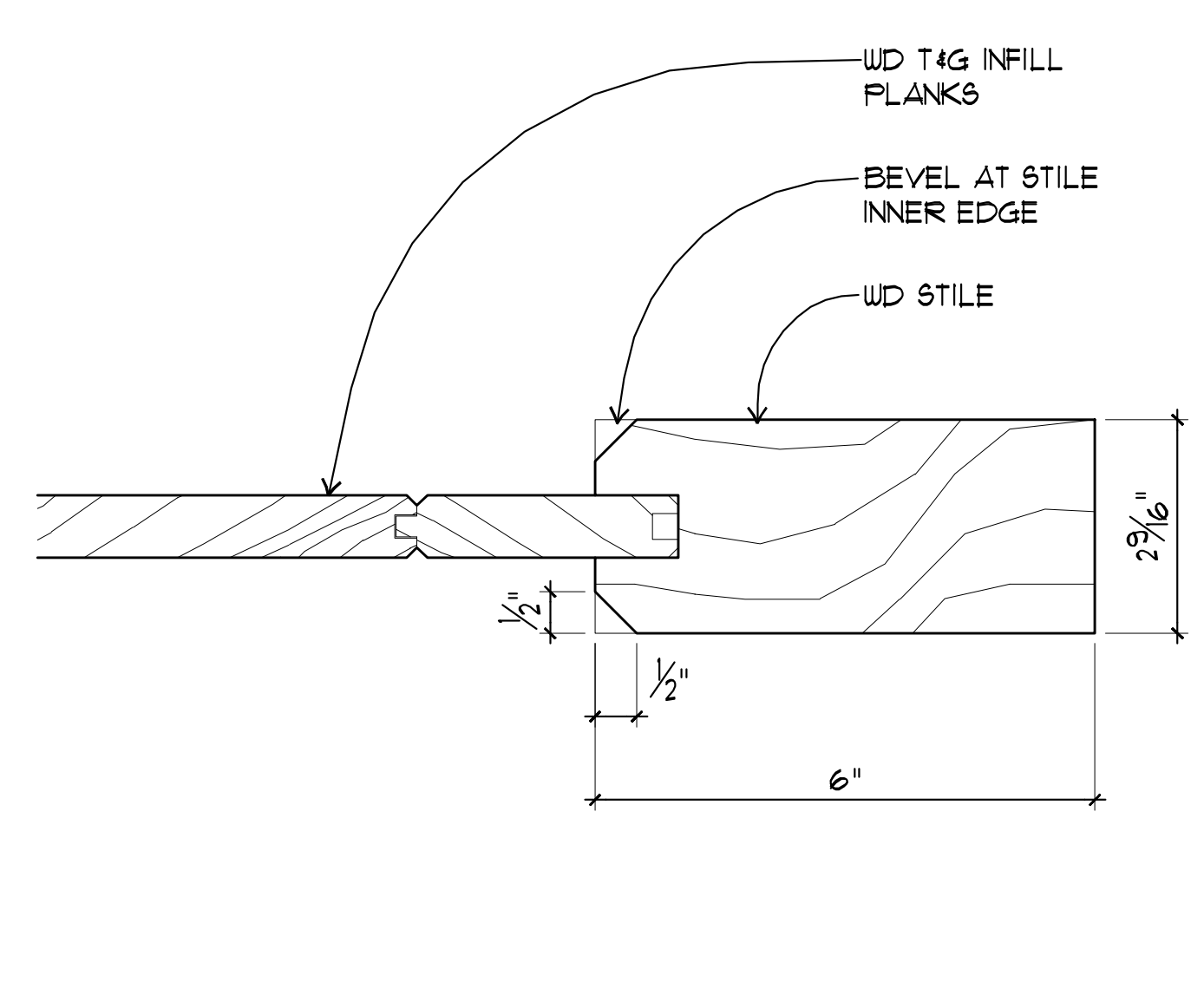
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PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER

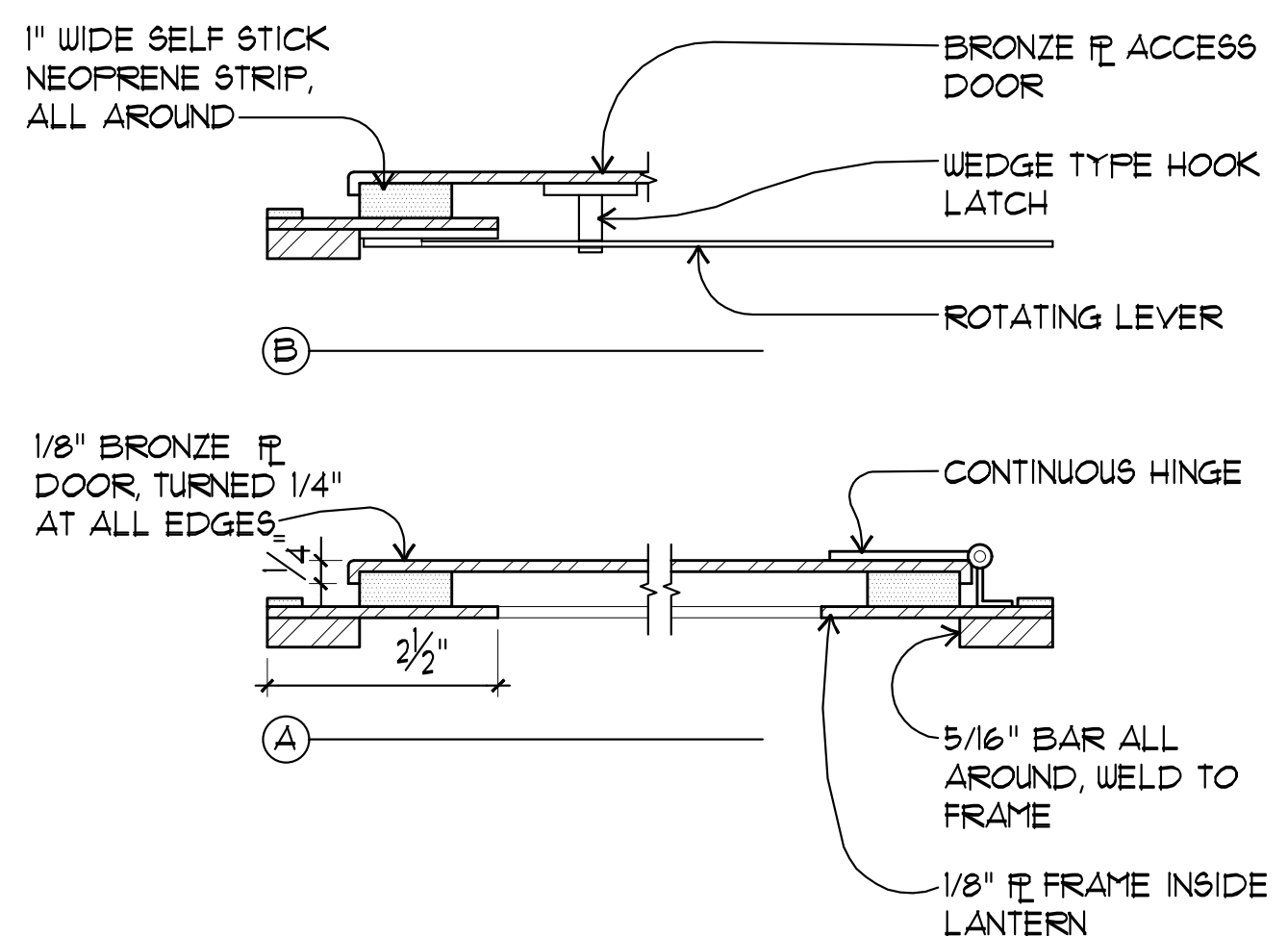
DOOR DETAILS



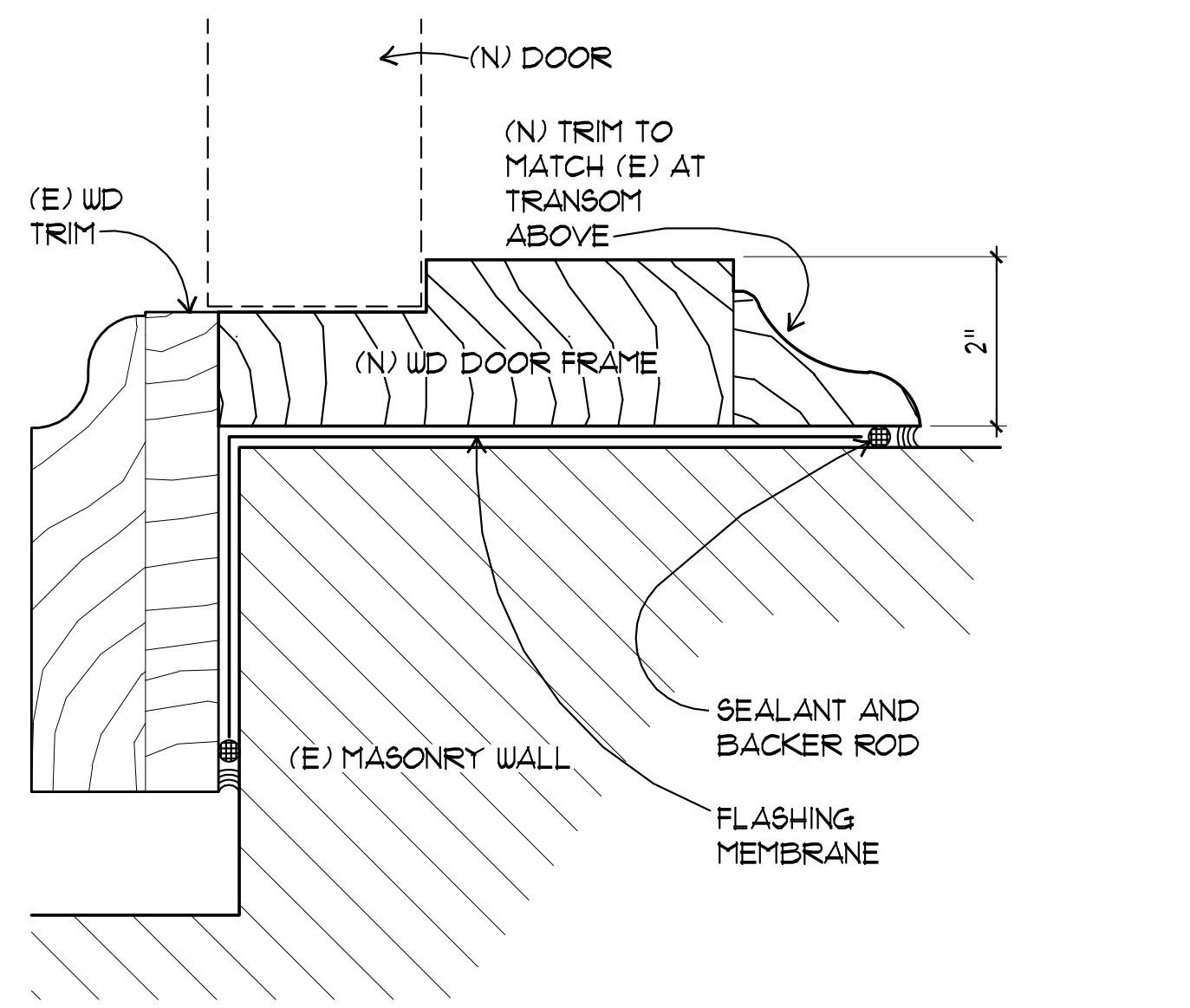
6 OIL HOUSE ENTRANCE DOOR HEAD AT TRANSOM
A8.9 SCALE: 6" = 1'-0"
x-detailed-door.dwg



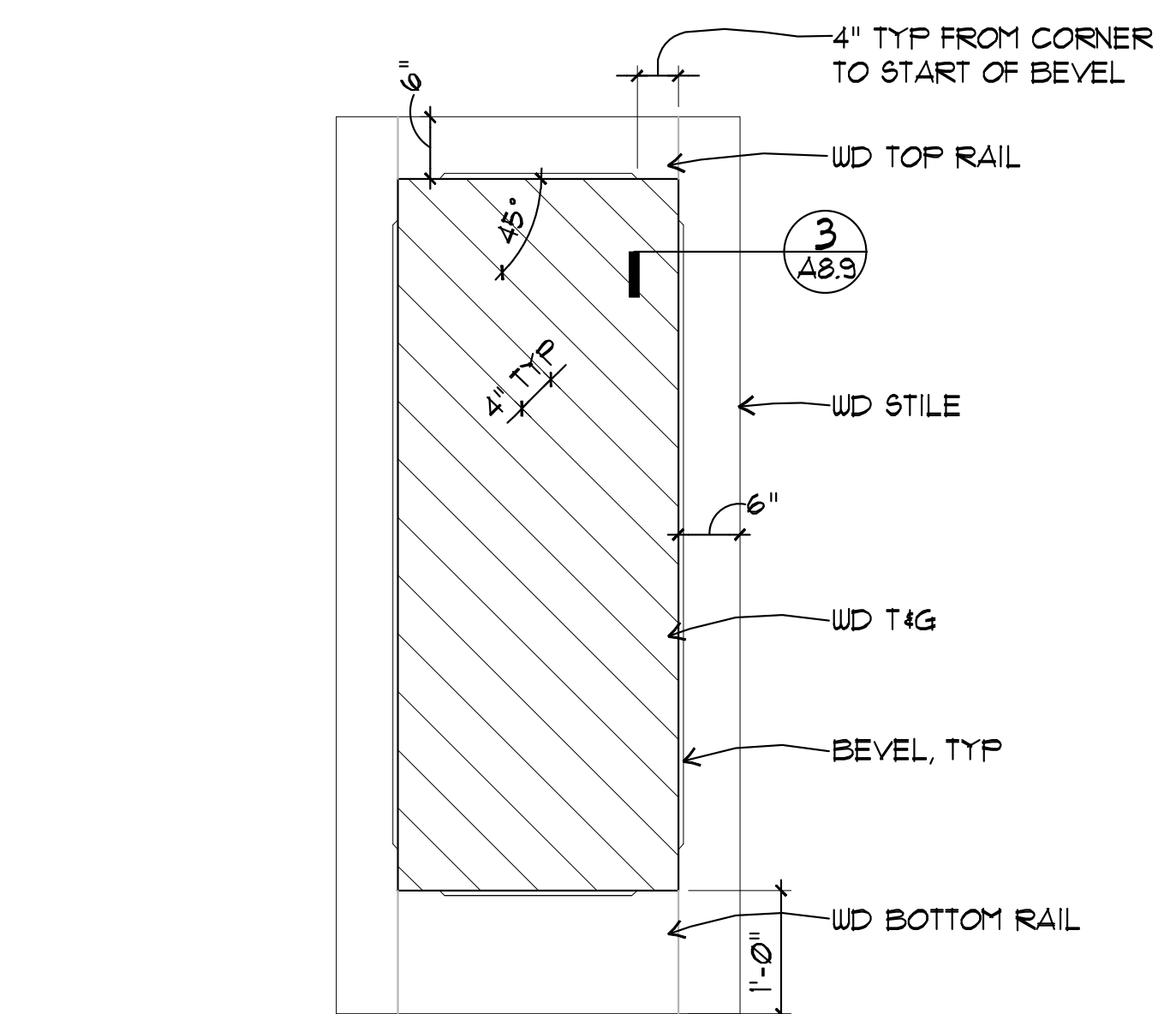
3 OIL HOUSE DOOR DETAIL
A8.9 SCALE: 6" = 1'-0"
x-detailed-door.dwg



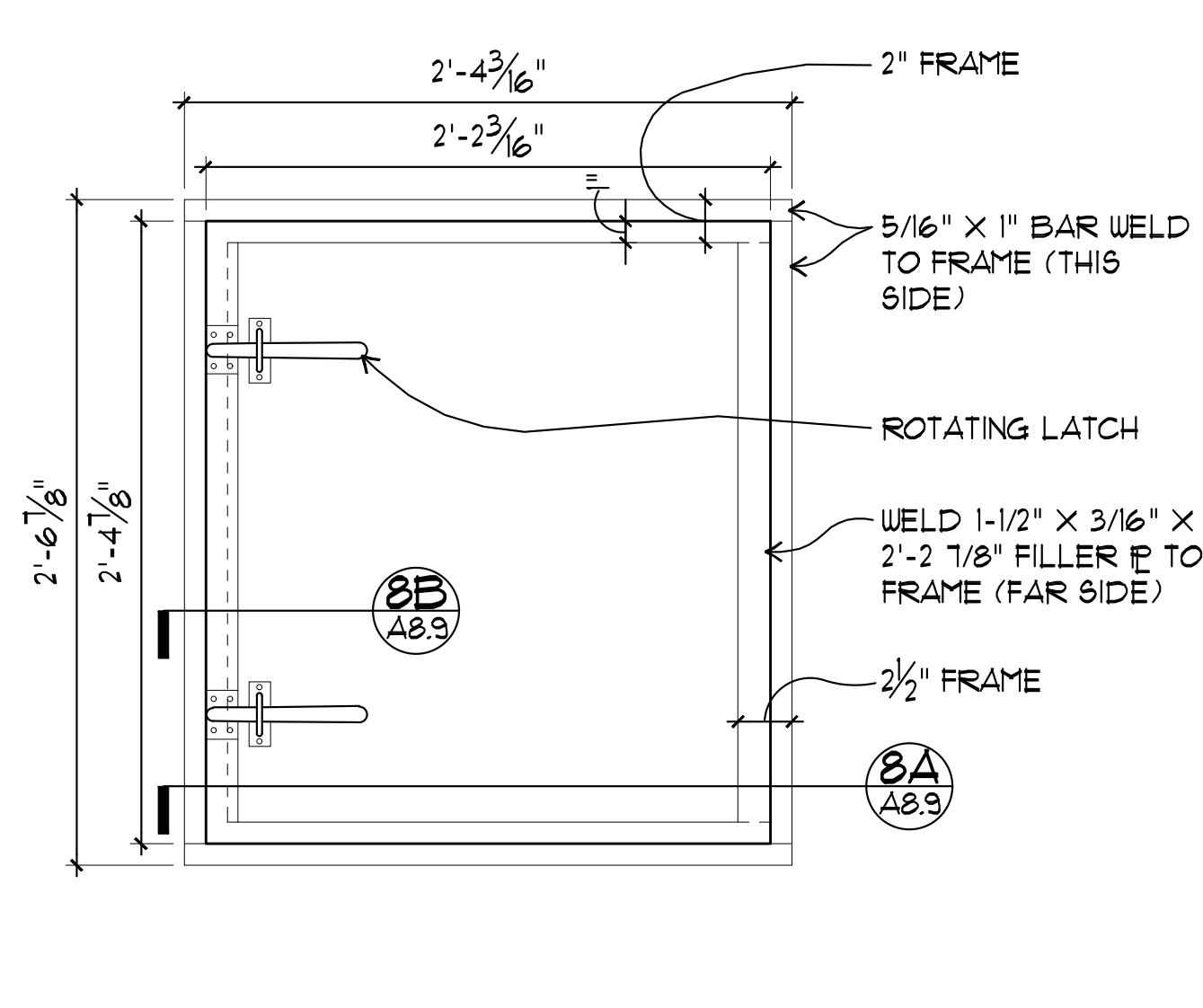
8 LANTERN DECK ACCESS DOOR DETAILS
A8.9 SCALE: 6" = 1'-0"
x-detailed-door.dwg



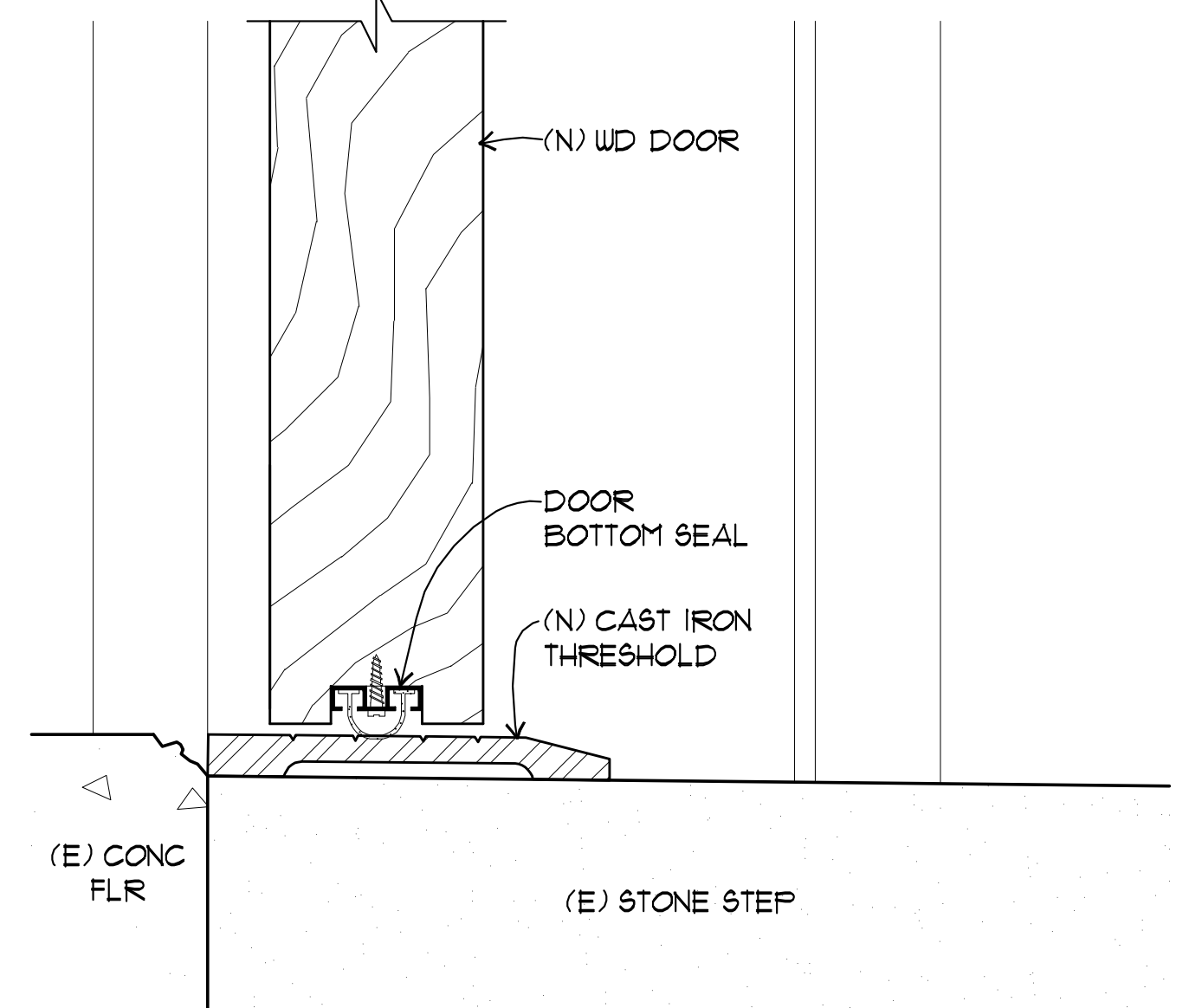
5 OIL HOUSE ENTRANCE DOOR JAMB
A8.9 SCALE: 6" = 1'-0"
x-detailed-door.dwg



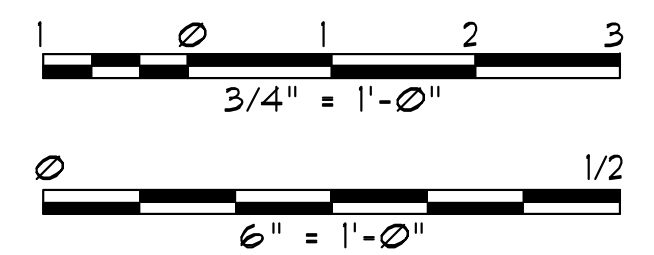
2 OIL HOUSE ENTRANCE DOOR
A8.9 SCALE: 3/4" = 1'-0"
x-detailed-door.dwg



7 LANTERN DECK ACCESS DOOR DETAILS
A8.9 SCALE: 6" = 1'-0"
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4 OIL HOUSE ENTRANCE DOOR JAMB
A8.9 SCALE: 6" = 1'-0"
x-detailed-door.dwg

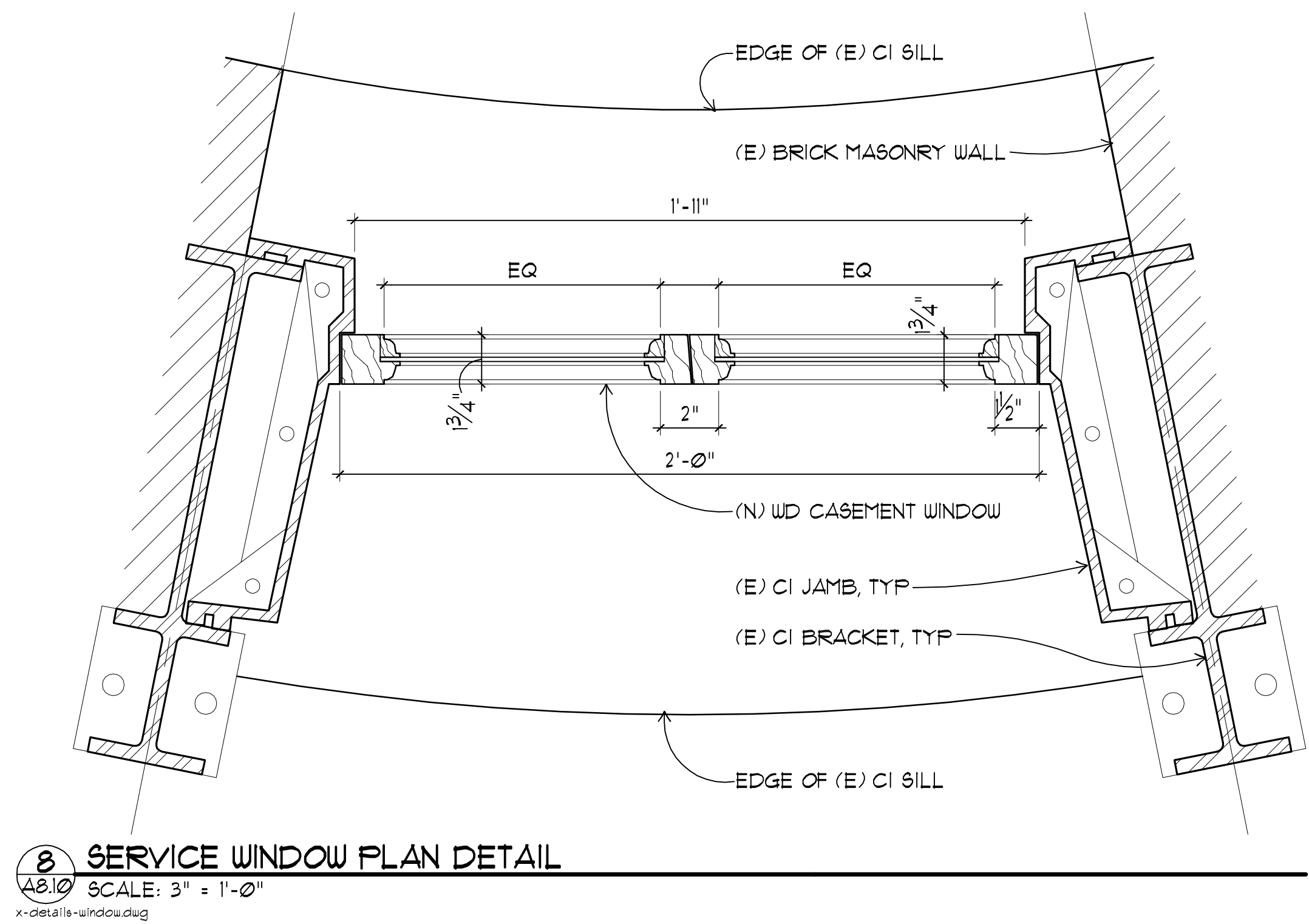


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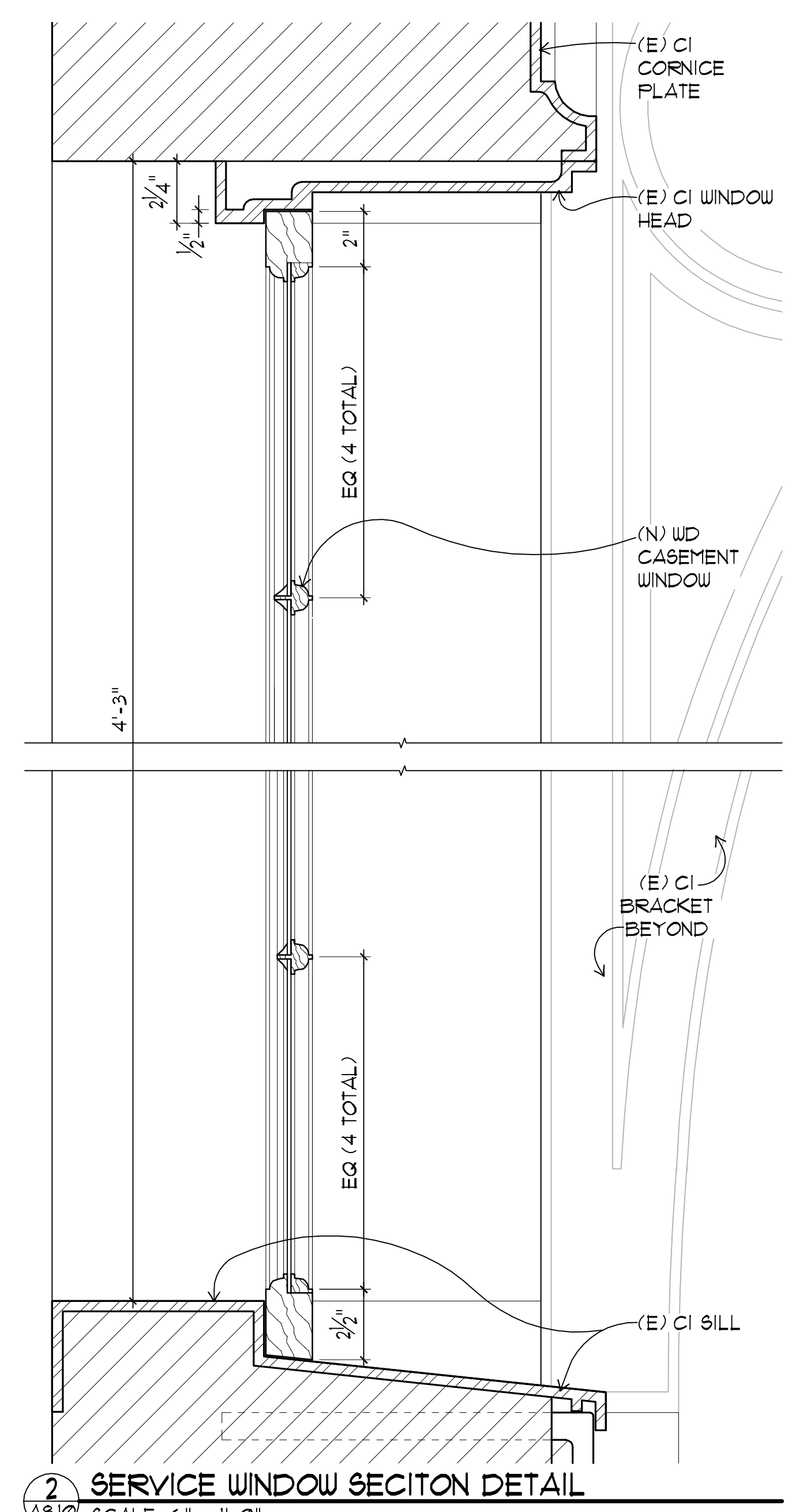
27 OF 54

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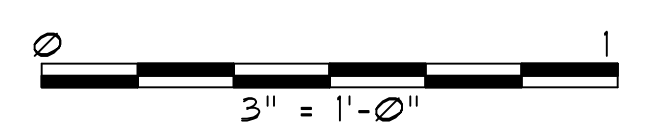
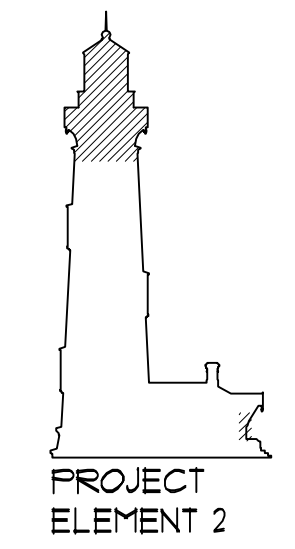
8 SERVICE WINDOW PLAN DETAIL

A8.10 SCALE: 3" = 1'-0"
x-detail8-window.dwg



2 SERVICE WINDOW SECTION DETAIL

A8.10 SCALE: 6" = 1'-0"
x-detail18-window.dwg



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PROJECT ELEMENT #3 REHABILITATION
OF THE LOWER LIGHTHOUSE TOWER
WINDOW DETAILS

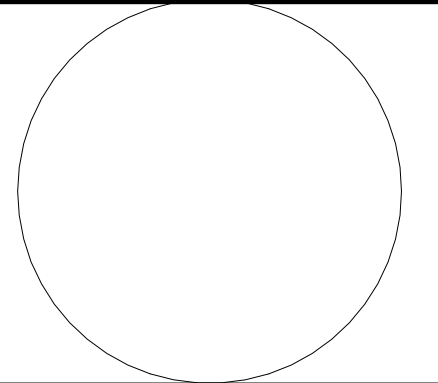
DRAWING NO. XXXX.001

SHEET NO. A8.10-PE2

28 OF 54



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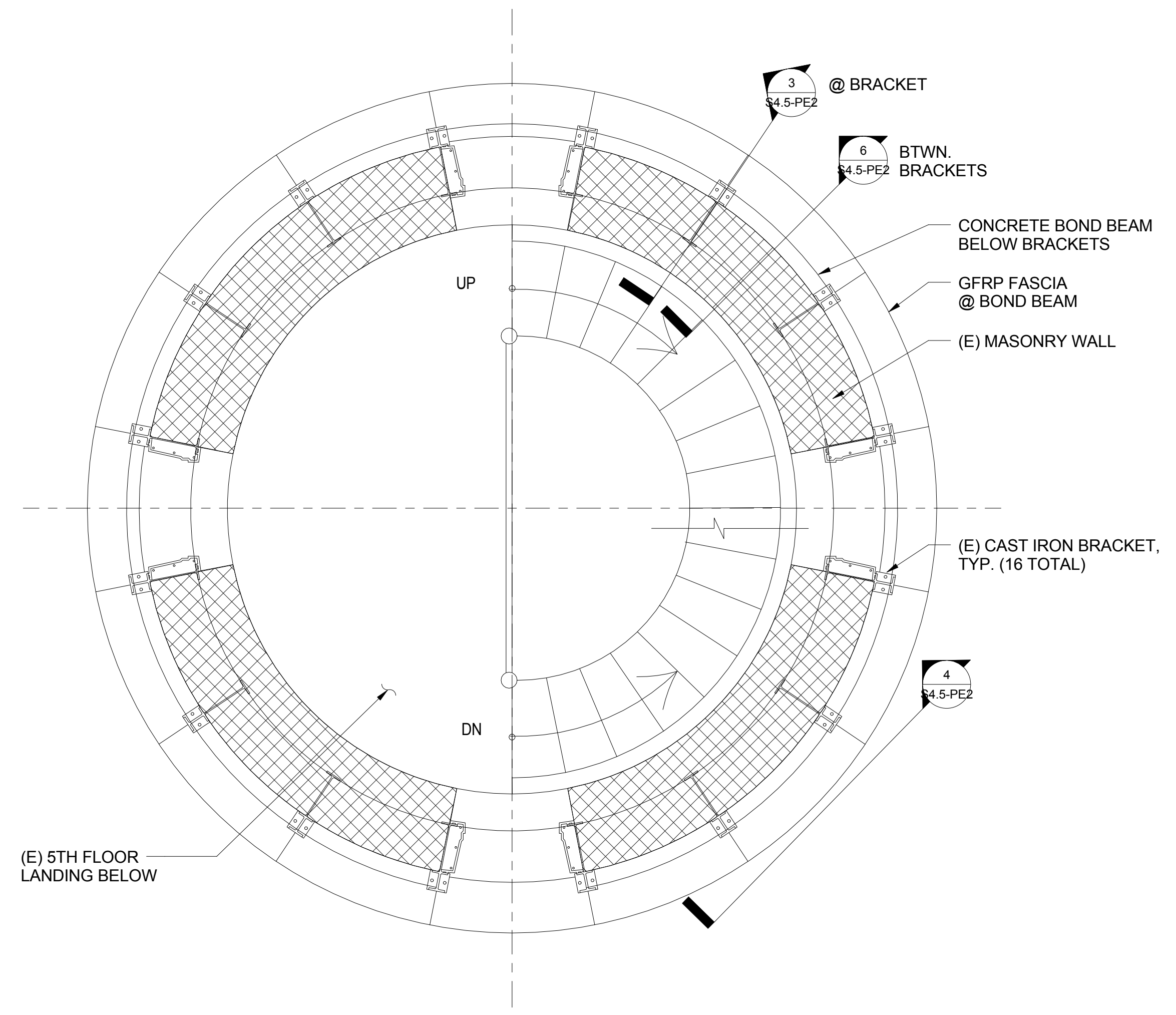
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #2
REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
TOWER PLAN AT SERVICE ROOM WINDOWS



1 TOWER PLAN AT SERVICE ROOM WINDOWS
1/2" = 1'-0"

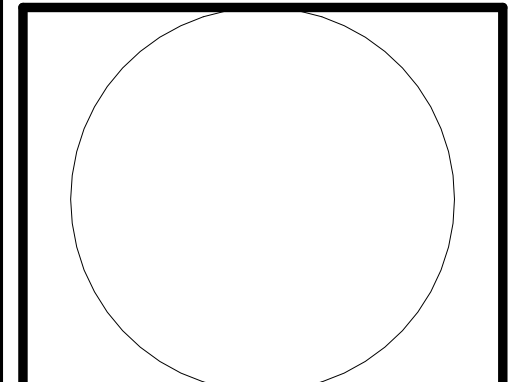
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DRAWING NO.
XXXX.

SHEET NO.
S2.1-PE2
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 CERTIFICATION # _____
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DATE	
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1/30/2015	100% DRAFT CD

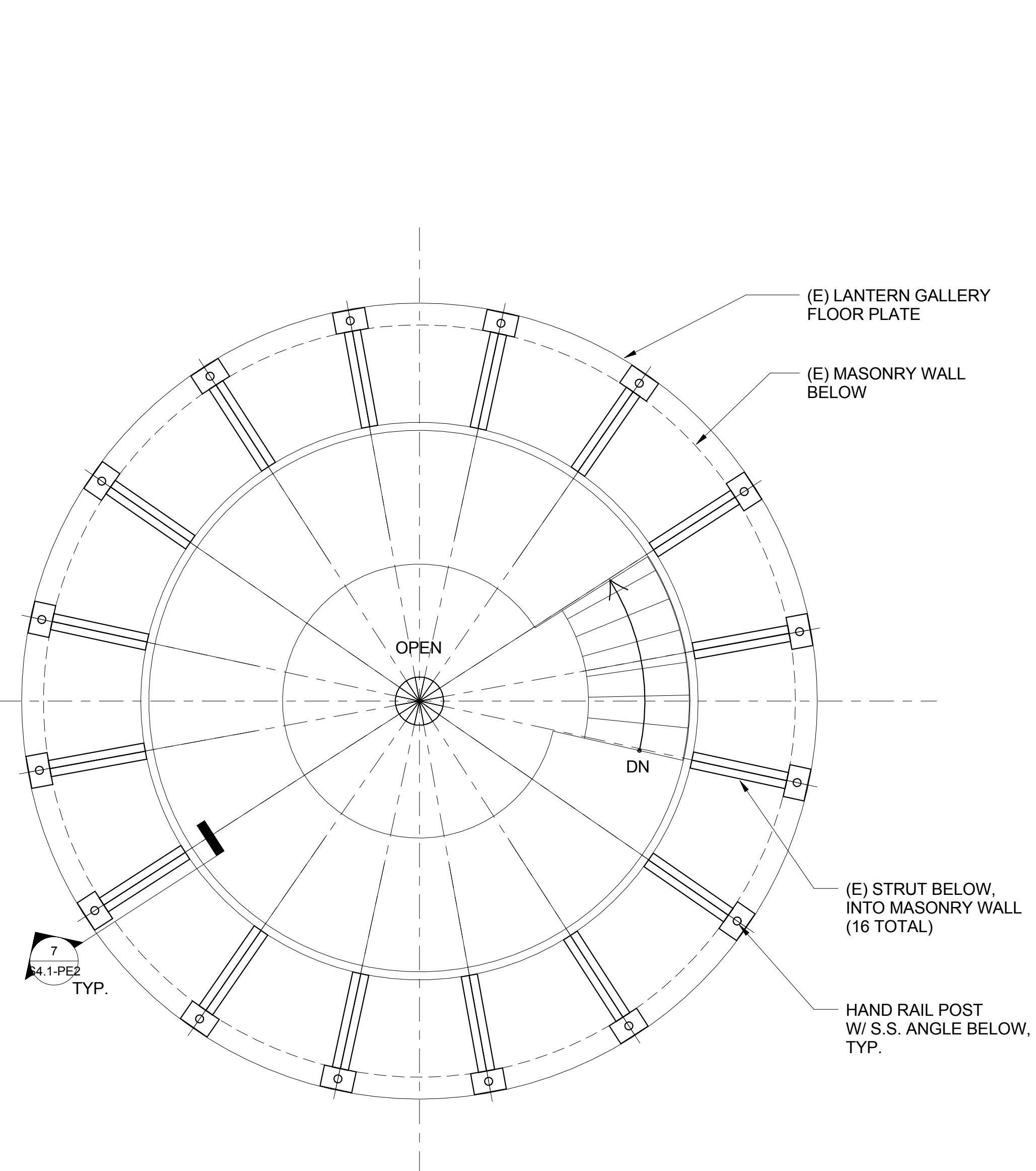
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #2
 REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
 TOWER PLAN AT GALLERY DECK / WATCH ROOM AND LANTERN ROOM

DRAWING NO. XXXX.

SHEET NO.

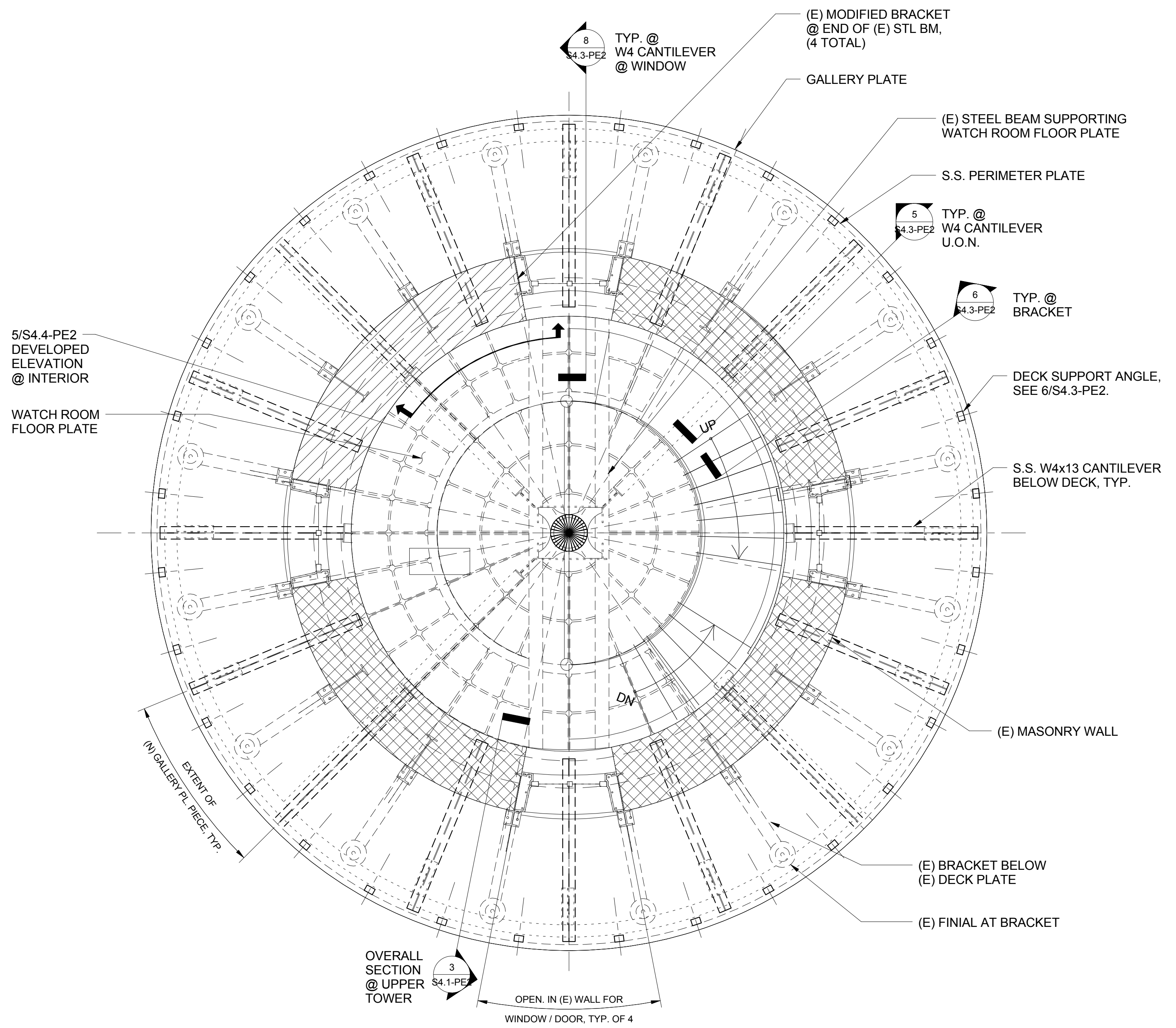
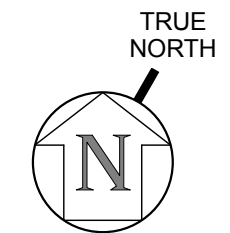
S2.2-PE2

30 OF 54



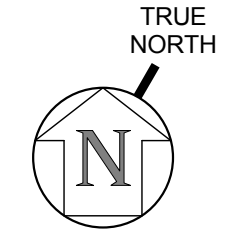
NOTE:
 S.A.D. FOR REMOVAL OF (E) CANTILEVER PLATFORM FOR EXTERIOR LIGHT.

2 TOWER PLAN AT LANTERN LEVEL
 1/2" = 1'-0"



NOTE:
 S.A.D. FOR DEMO OF (E) 1991 ADDED STEEL.

1 TOWER PLAN AT WATCH ROOM & GALLERY
 1/2" = 1'-0"



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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #2
 REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
 SECTIONS AND DETAILS

DRAWING NO.
 XXXX.

SHEET NO.
S4.1-PE2
 31 OF 54



(E) LANTERN GALLERY FLOOR PLATE, CONTINUOUS THROUGH LANTERN WALL

1/16" INSULATING BUSHING @ S.S. ROD THROUGH CAST IRON DECK

(E) FLOOR PLATE FLANGE

MAINTAIN 1" CLR FROM (N) S.S. BARS TO (E) CAST IRON, TYP.

REMOVE MASONRY FOR ACCESS TO CONSTRUCT BOND BEAM. REPLACE INNER WYTHE OF MASONRY AFTER BEAM IS COMPLETE.

LANTERN GALLERY CONC. BOND BEAM, CONTINUOUS AROUND PERIMETER W/ (4) #6 S.S. BARS AND #3 TIES @ 8" O.C. SPLICE BARS WHERE NEEDED WITH S.S. COUPLERS, STAGGER SPLICES

5 S4.1-PE2

S.S. HANDRAIL POST THREADED THROUGH (E) DECK & ANGLE BELOW W/ NUT BELOW ANGLE. S.A.D. FOR SHAPE OF HANDRAIL.

(E) CAST IRON DECK

(N) GFRP EDGE & TRIM, S.A.D. FOR PROFILE AND EXTENT OF DEMO @ (E) ROUGH EDGE OF DECK. GFRP EDGE TRIM TO SPLICE @ CL. OF S.S. ANGLE.

S.S. THREADED EMBED, SEE 6/S4.1-PE2 (2) EMBED PER SEGMENT OF EDGE TRIM, LOCATE 3" FROM EACH END.

3/4"Ø S.S. EPOXY ANCHORS (2) PER ANGLE W/ 1/16" INSULATING BUSHING THROUGH (E) CAST IRON.

S.S. L6x6x1/2x1'-0" LONG, CURVED, (16 TOTAL) ALTERNATELY USE 1/2" PLATES W/ CJP WELD @ CORNER IN LIEU OF ANGLE TO ACCOMMODATE CURVE IN SURFACE OF (E) PARAPET PL. INSULATE FROM PARAPET PLATE

(E) CAST IRON PARAPET PLATE

(E) CAST IRON STRUT SUPPORTING LANTERN GALLERY FLOOR PLATES

7 SECTION @ LANTERN GALLERY PLATE
 1 1/2" = 1'-0"



GALLERY & WATCHROOM

SERVICE ROOM

5 S4.3-PE2 @ (N) BEAM

6 S4.3-PE2 @ (E) BRACKET

3 S4.5-PE2 @ BRACKET

6 S4.5-PE2 BTWN BRACKETS

EQ EQ EQ EQ

T.O. WALL BEYOND

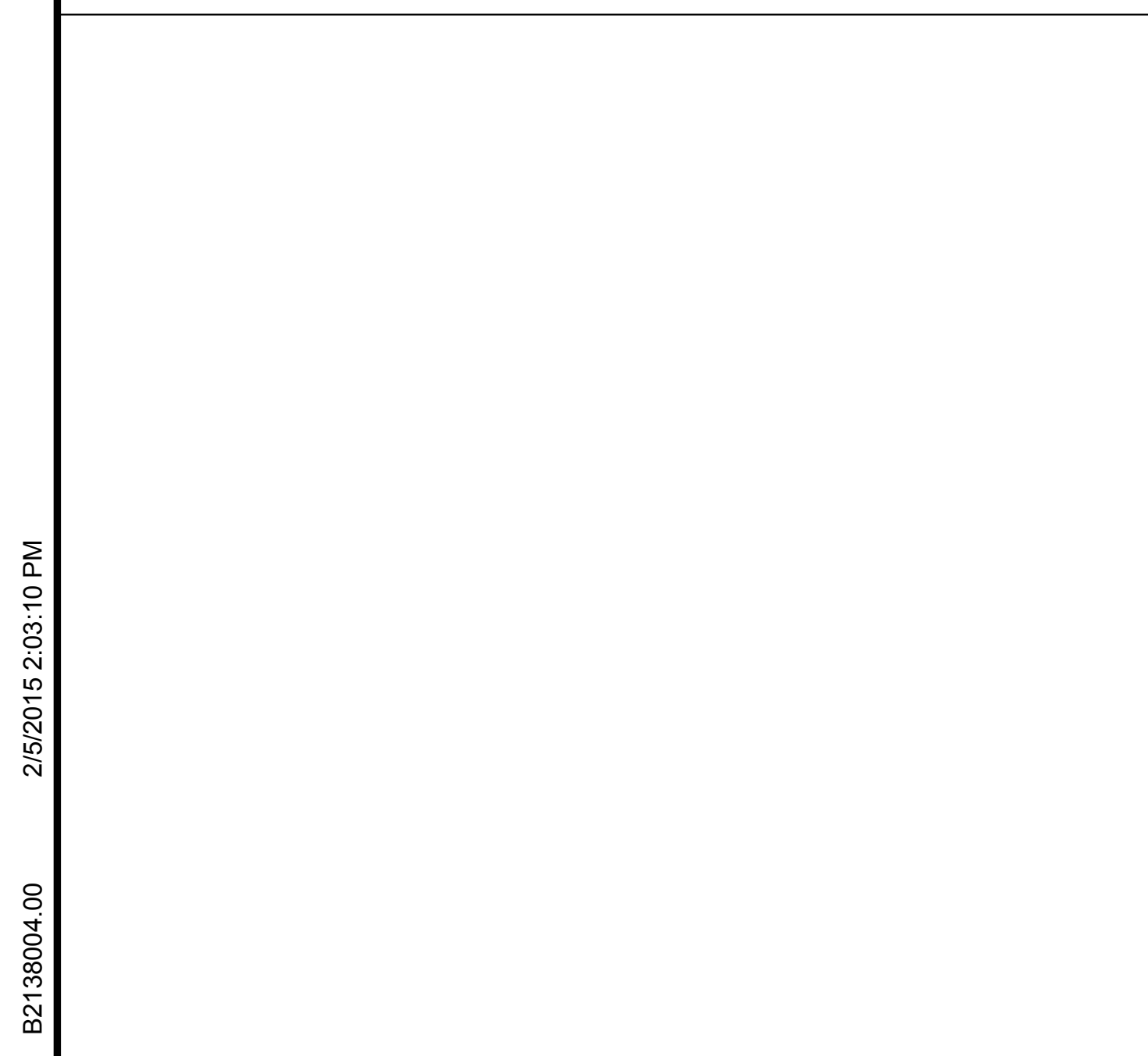
S.S. EPOXY ANCHOR

2" TYP.

S.S. L6x6x1/2x1'-0" LONG

JOINT IN PARAPET PLATE

5 ELEVATION @ LANTERN GALLERY PLATE
 1 1/2" = 1'-0"



S.S. ELEMENT

GFRP ARCHITECTURAL ELEMENT, S.A.D.

1" MAX.

1/4"

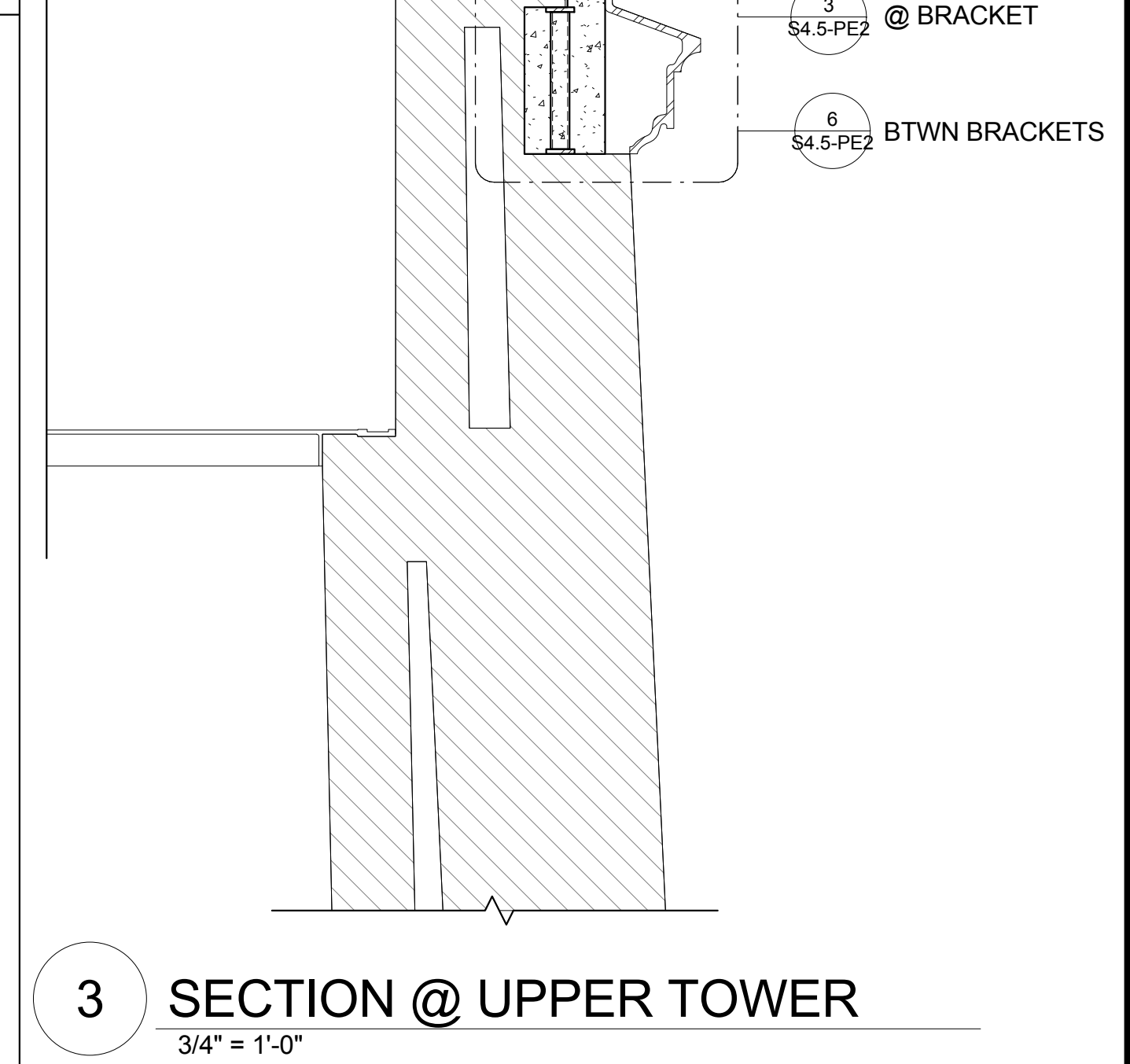
1/2"

S.S. PL. 1/2x 1/2"Ø

1 1/2"Ø S.S. BLOCK, THREADED FOR BOLT, EMBEDDED IN GFRP. LENGTH VARIES.

1/2"Ø S.S. BOLT, MINIMUM 2" EMBED INTO S.S. BLOCK

6 STAINLESS STEEL EMBED IN GFRP ELEMENT
 12" = 1'-0"



GALLERY & WATCHROOM

SERVICE ROOM

5 S4.3-PE2 @ (N) BEAM

6 S4.3-PE2 @ (E) BRACKET

3 S4.5-PE2 @ BRACKET

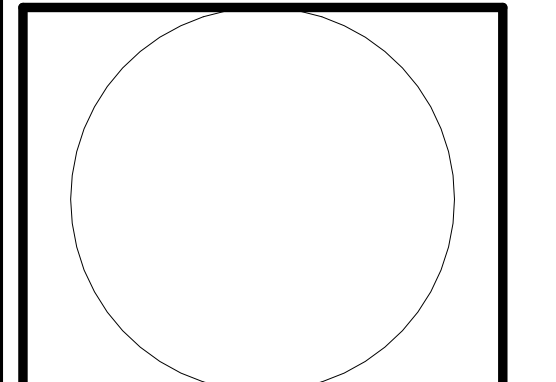
6 S4.5-PE2 BTWN BRACKETS

3 SECTION @ UPPER TOWER
 3/4" = 1'-0"

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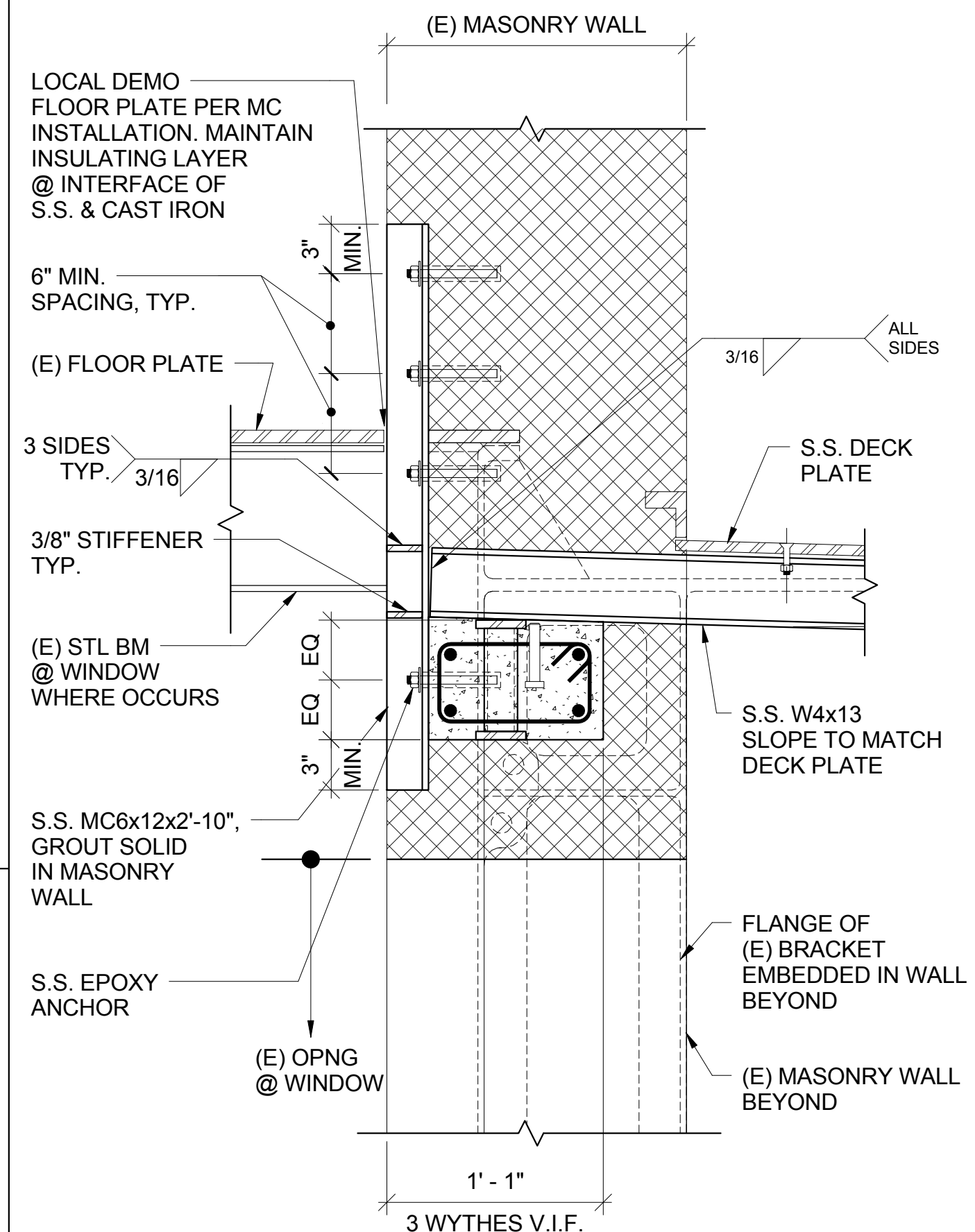
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #2
REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
STRENGTHENING DETAILS

DRAWING NO.
XXXX.

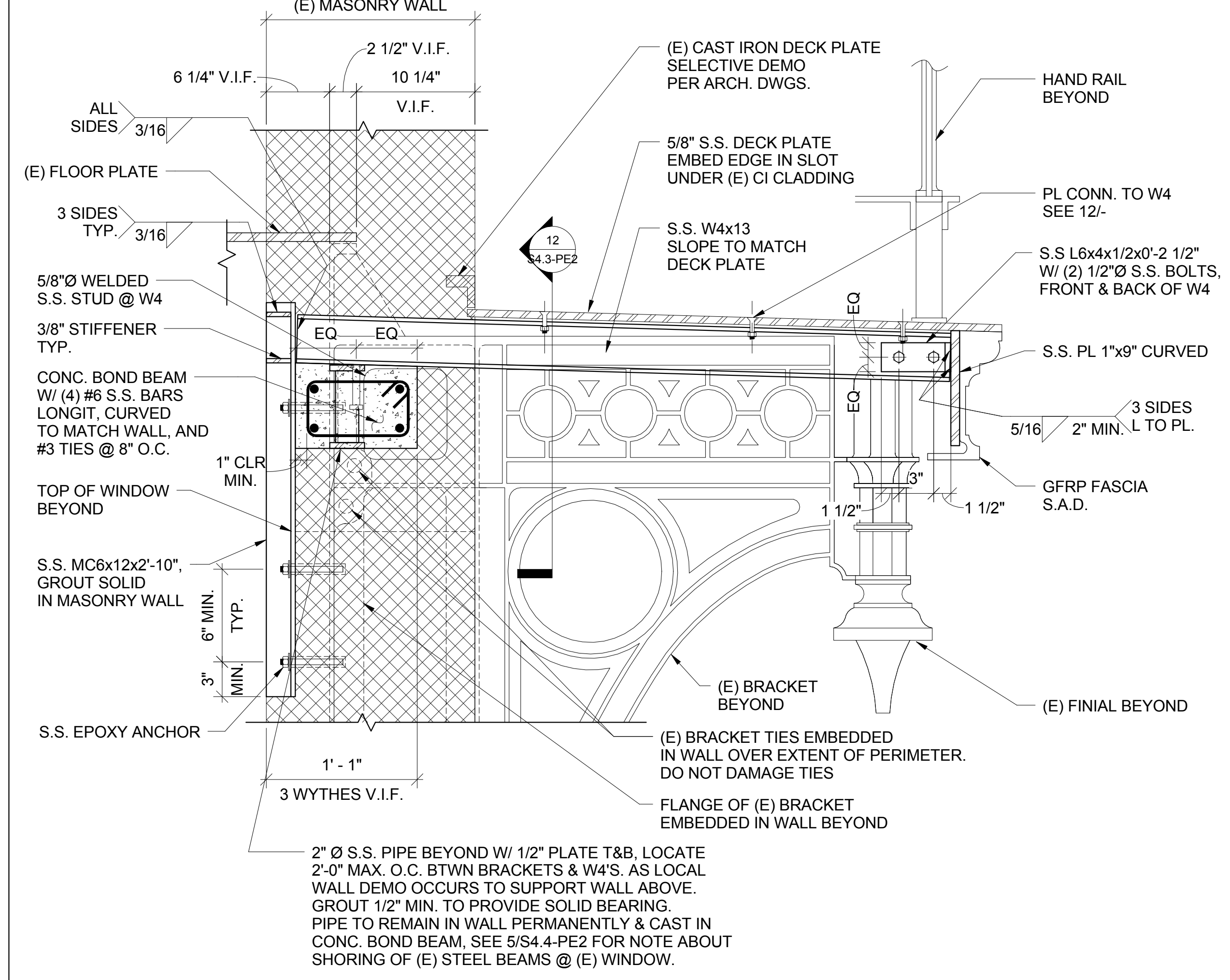
SHEET NO.

S4.3-PE2
32 OF 54



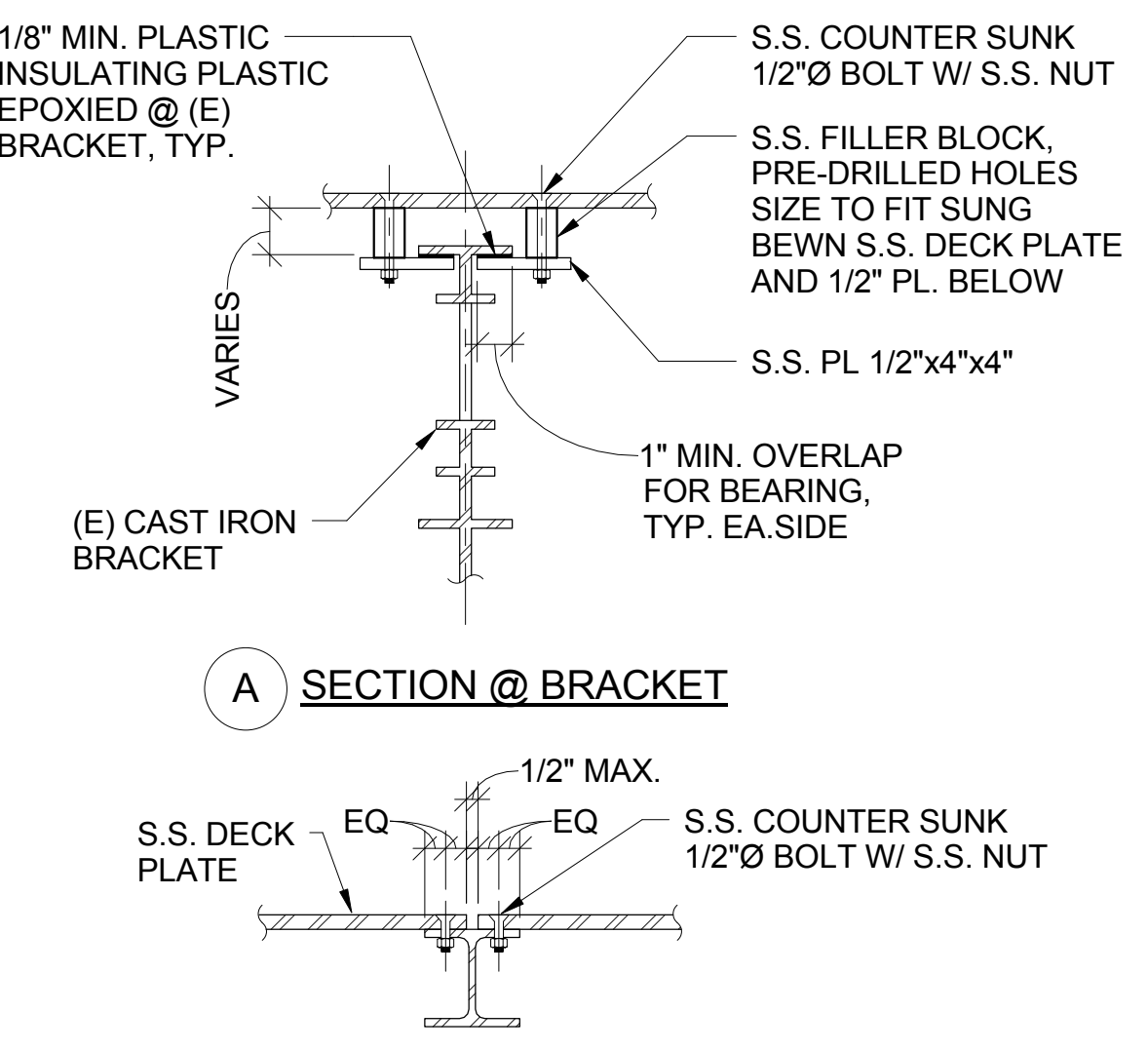
- NOTES:**
- FOR INFO NOT SHOWN SEE 5/-.
 - MAINTAIN INSULATING LAYER @ INTERFACE OF S.S. & CAST IRON AT ALL LOCATIONS.

8 ALT. CANTILEVER CONN @ WINDOW
1 1/2" = 1'-0"

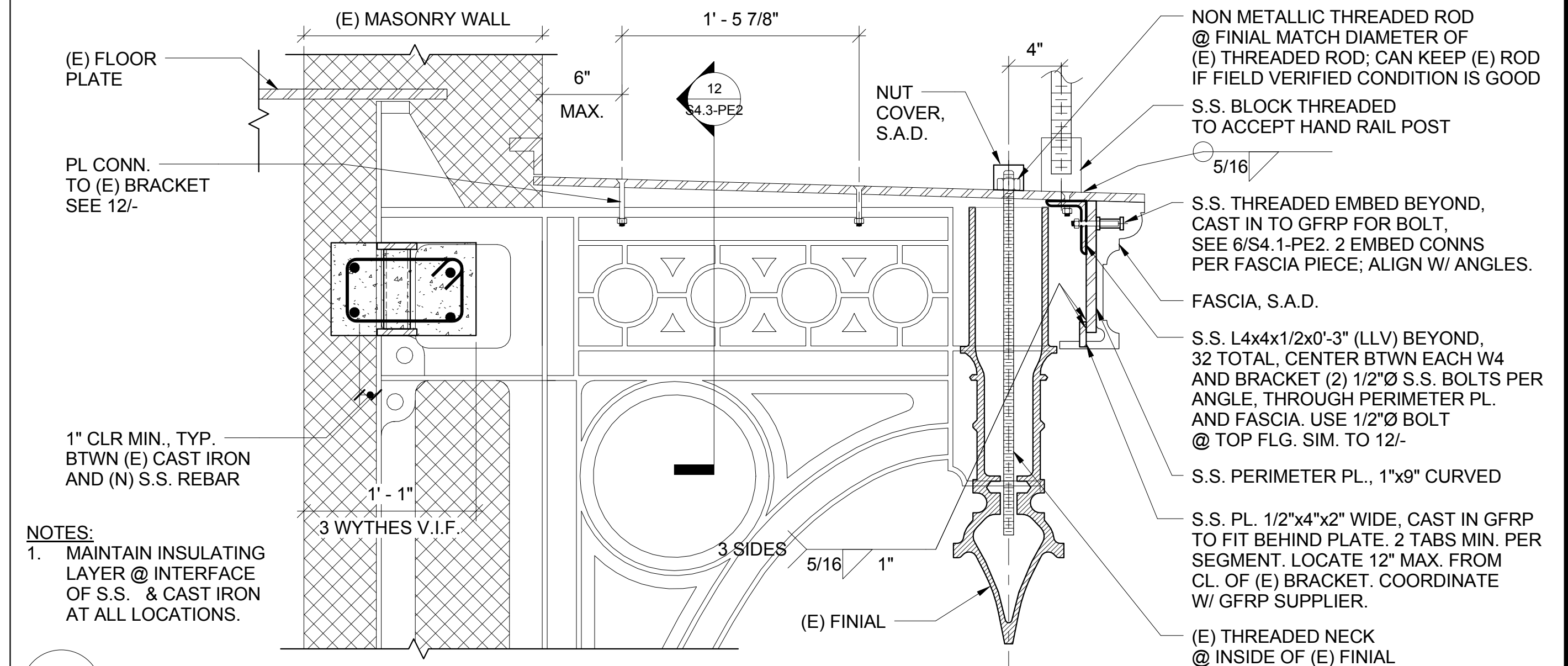


- NOTES:**
- DEMO OF (E) MASONRY WALL FOR CONSTRUCTION OF CONC. BOND BEAM TO BE 1/4 OF THE TOTAL BOND BEAM LENGTH, MAX. AROUND THE PERIMETER, AT ANY GIVEN TIME.
 - DO NOT LAPSPICE BARS. USE S.S. COUPLERS ONLY. STAGGER SPLICES.
 - MAINTAIN INSULATING LAYER @ INTERFACE OF S.S. & CAST IRON AT ALL LOCATIONS.
 - SEE 8/- FOR ALT. CONN. @ WINDOW.

5 STRENGTHENING @ GALLERY LEVEL SECTION @ CANTILEVER BM.
1 1/2" = 1'-0"



12 GALLERY PLATE CONNS
1 1/2" = 1'-0"



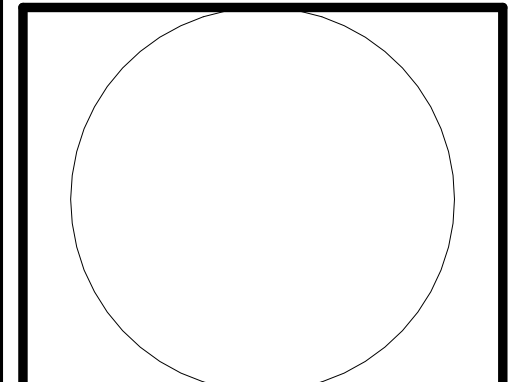
- NOTES:**
- MAINTAIN INSULATING LAYER @ INTERFACE OF S.S. & CAST IRON AT ALL LOCATIONS.

6 STRENGTHENING @ GALLERY LEVEL SECTION @ BRACKET
1 1/2" = 1'-0"

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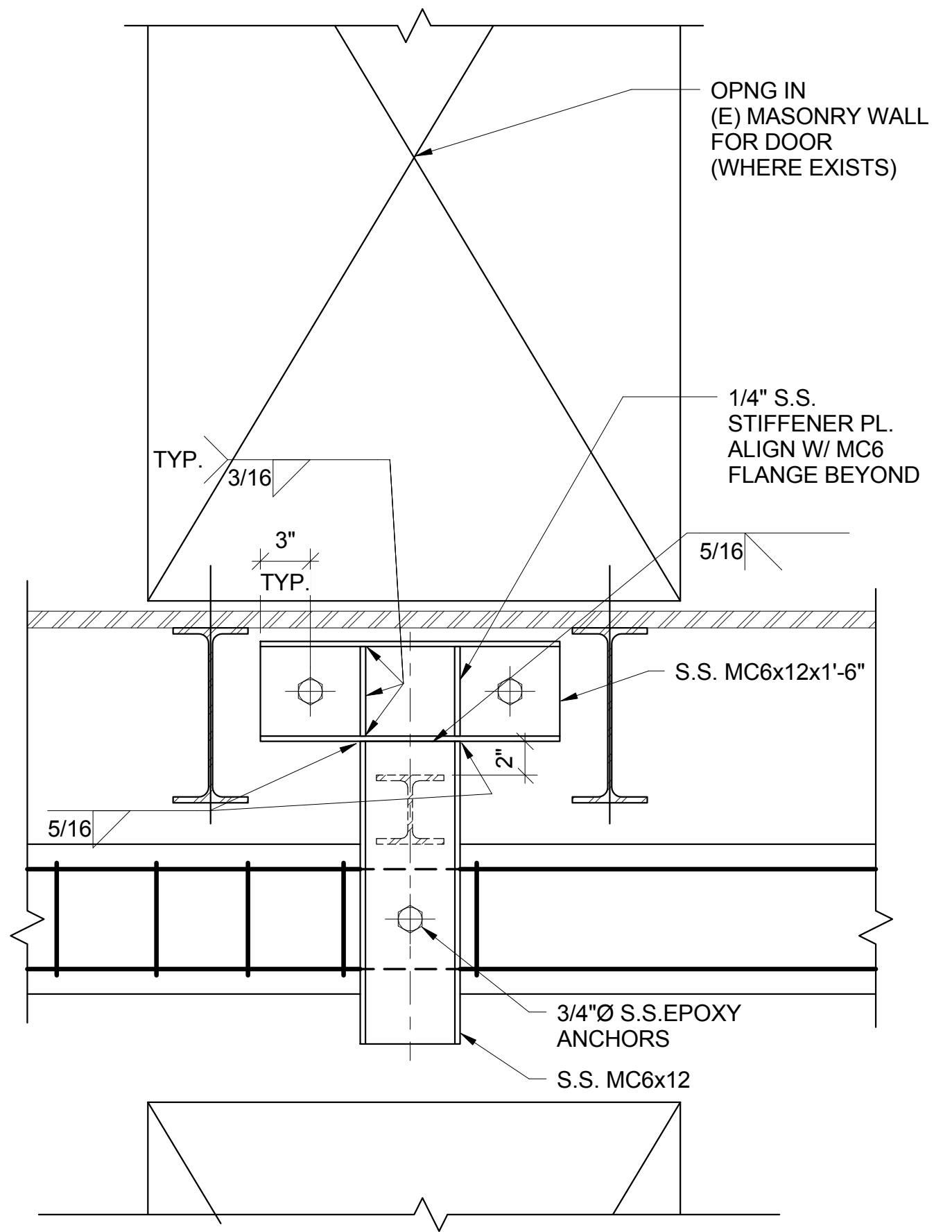
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #2
 REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
 DETAILS

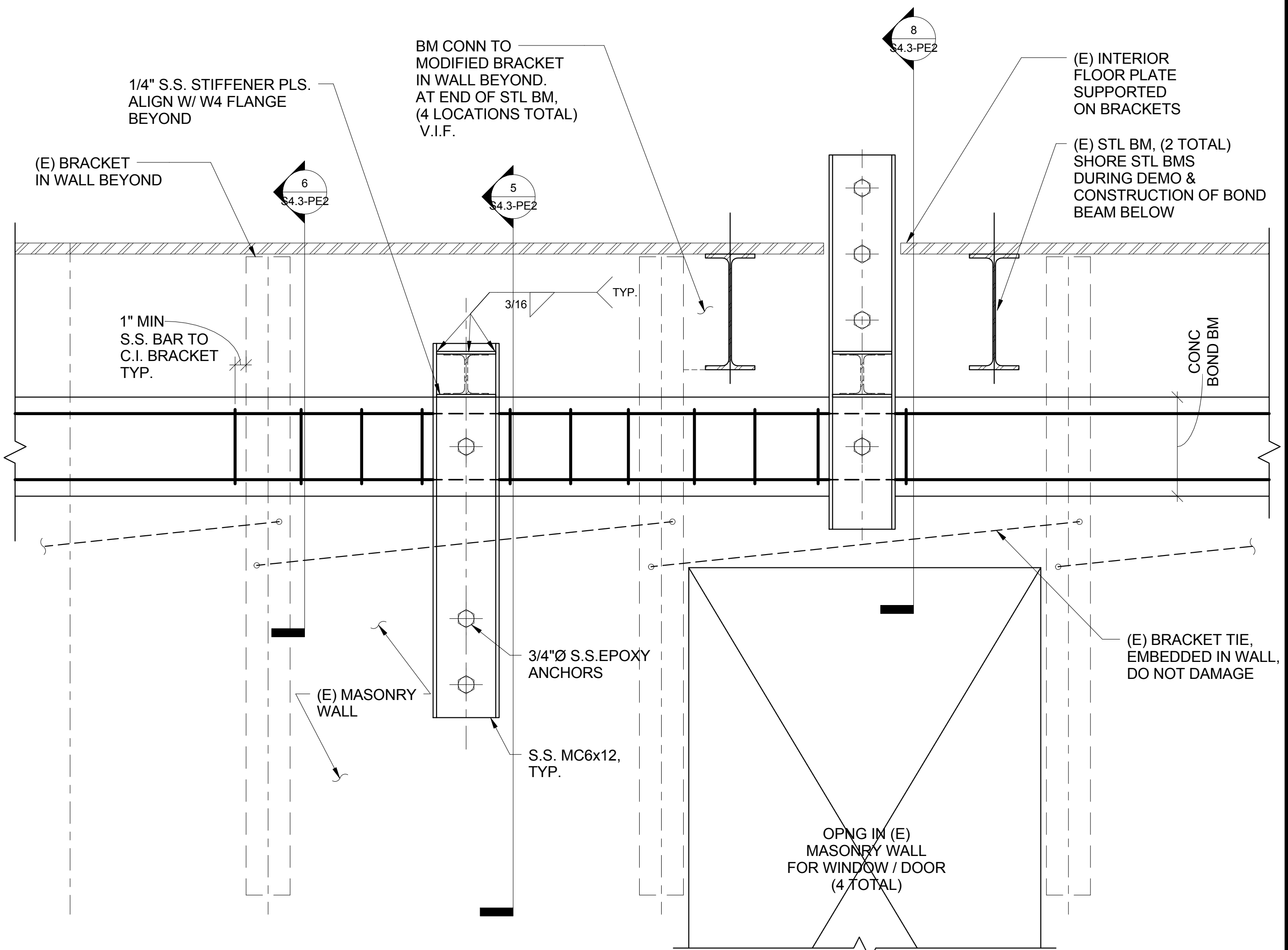
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SHEET NO.
S4.4-PE2
 33 OF 54

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8 ALTERNATE CANTILEVER CONN.
 @ WINDOW (FOUR LOCATIONS)
 1 1/2" = 1'-0"

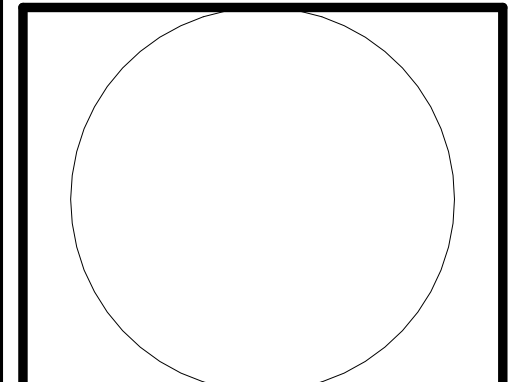


NOTES:
 1. DO NOT LAPSPlice BARS. USE S.S. COUPLERS ONLY. STAGGER SPLICES.
 2. SEE 8/- FOR CONDITION WITH DOOR ABOVE FLOOR PLATE.

5 DEVELOPED INTERIOR ELEVATION @ GALLERY LEVEL
 1 1/2" = 1'-0"



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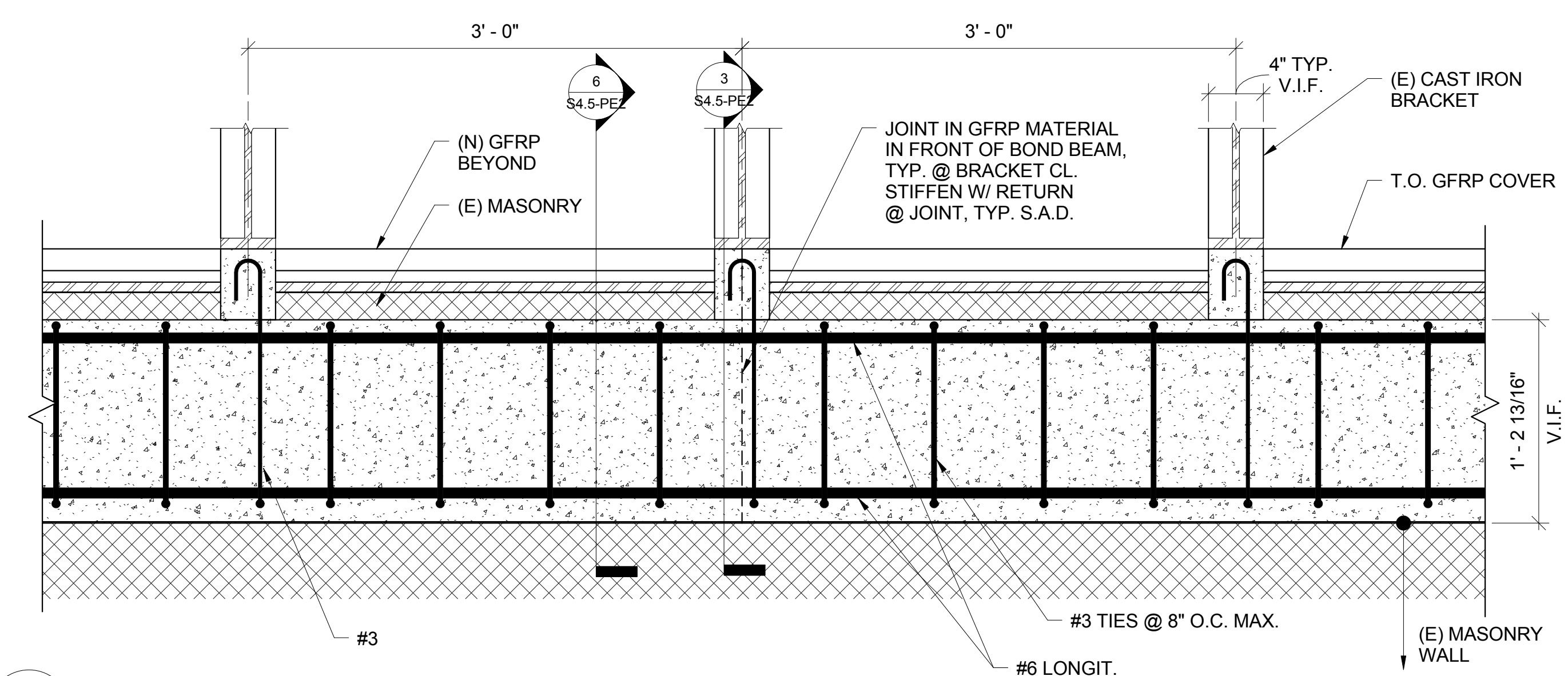
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #2
REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
BOND BEAM DETAILS

DRAWING NO. XXXX.

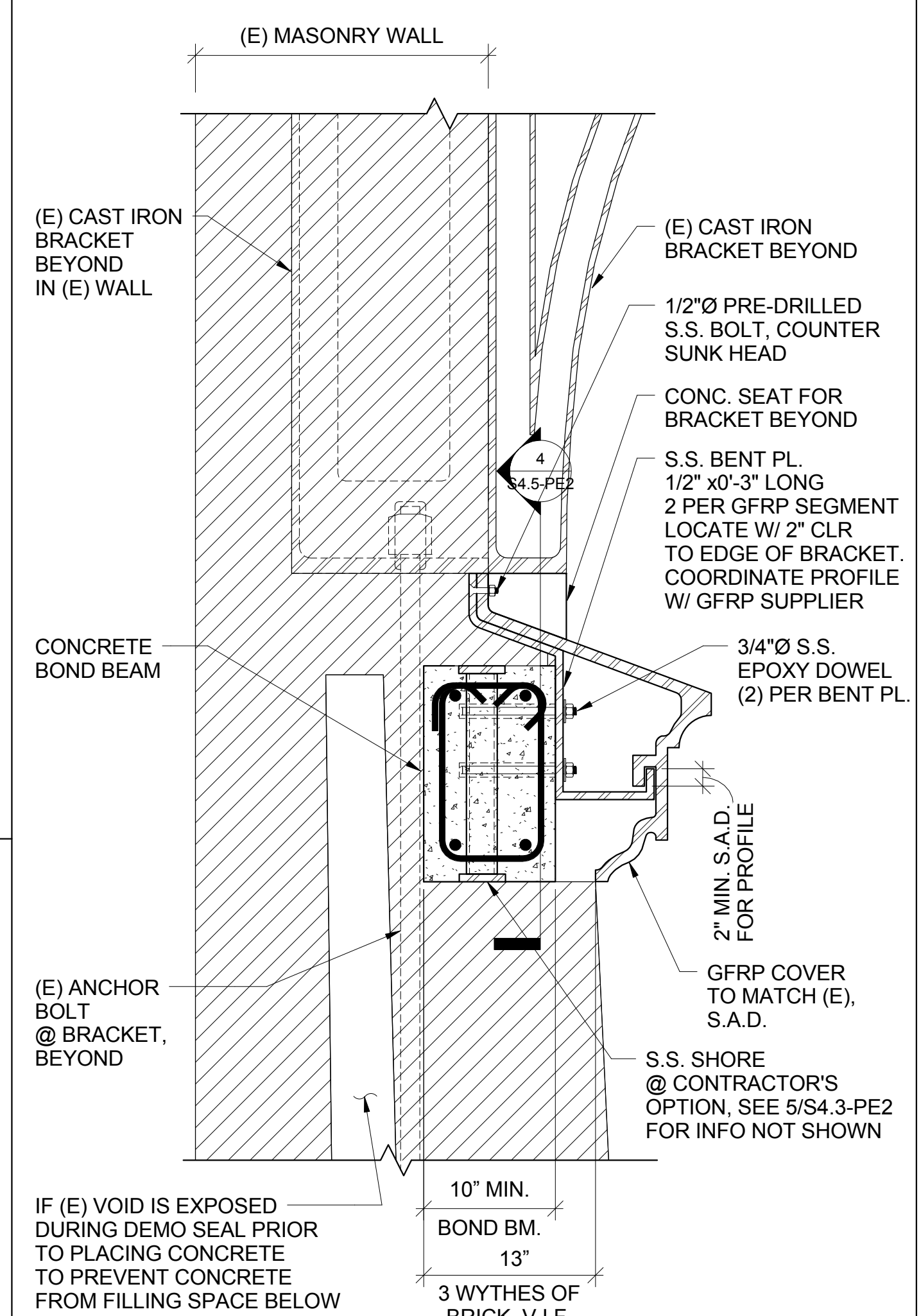
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S4.5-PE2

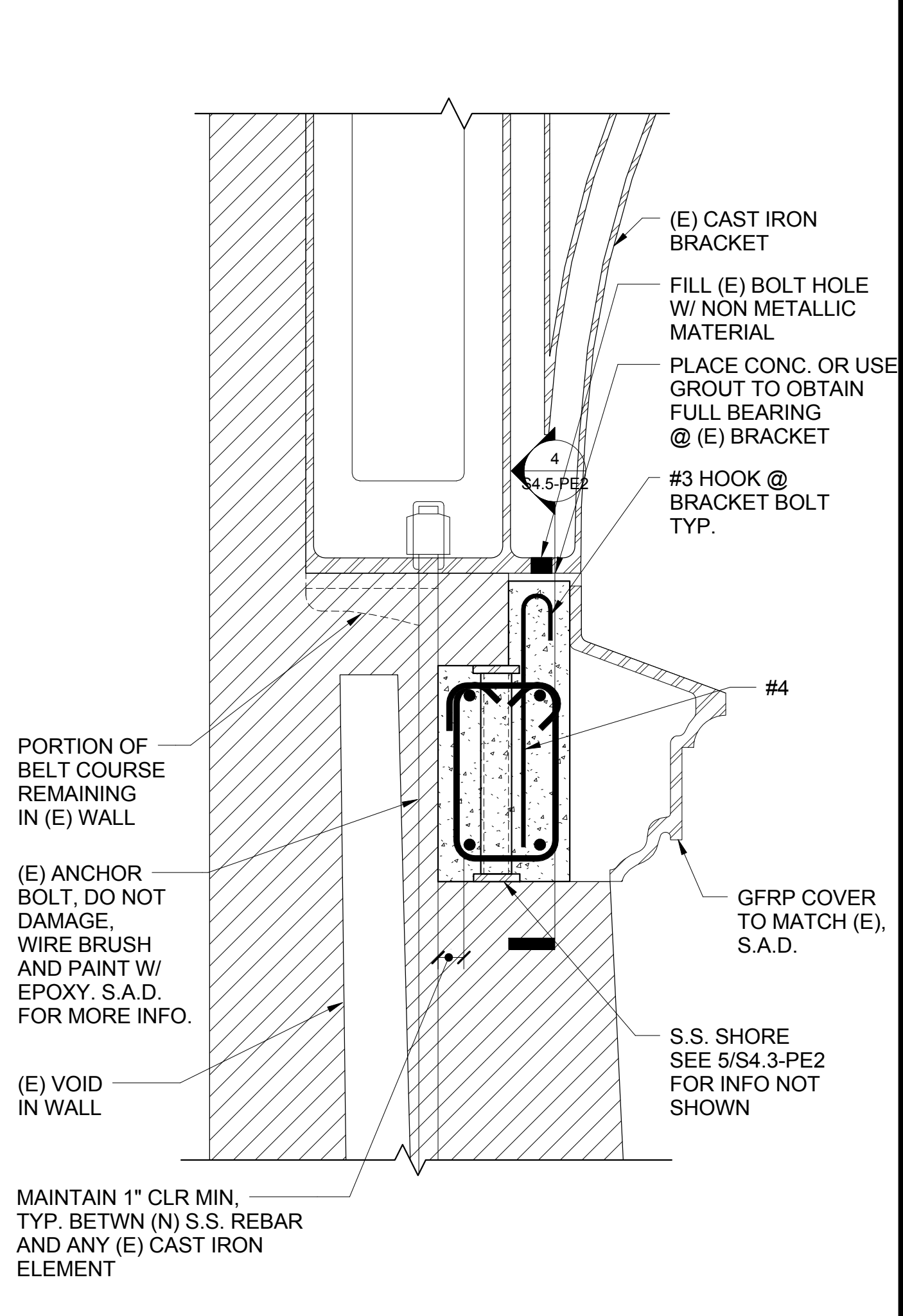
34 OF 54



4 DEVELOPED ELEVATION @ BOND BEAM @ BASE OF (E) BRACKETS
1 1/2" = 1'-0"



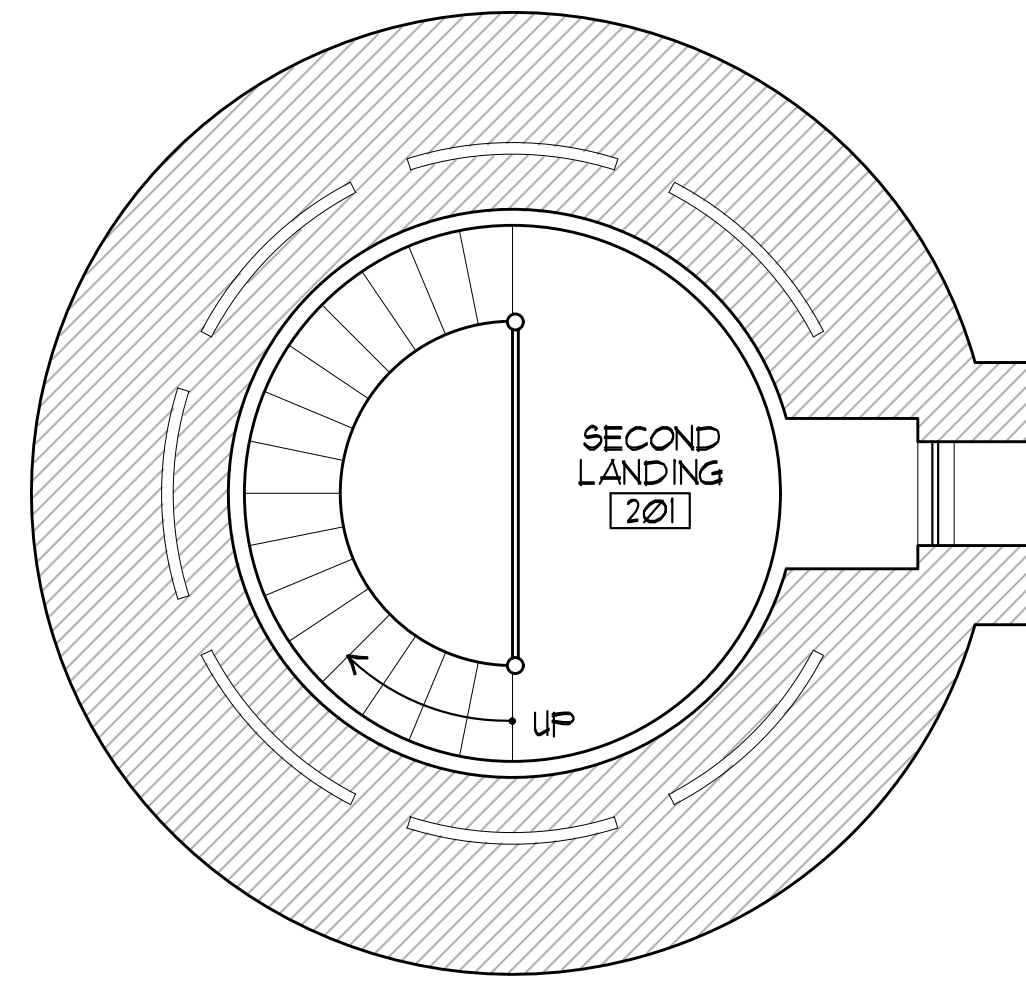
6 BOND BEAM BETWEEN BRACKETS
1 1/2" = 1'-0"



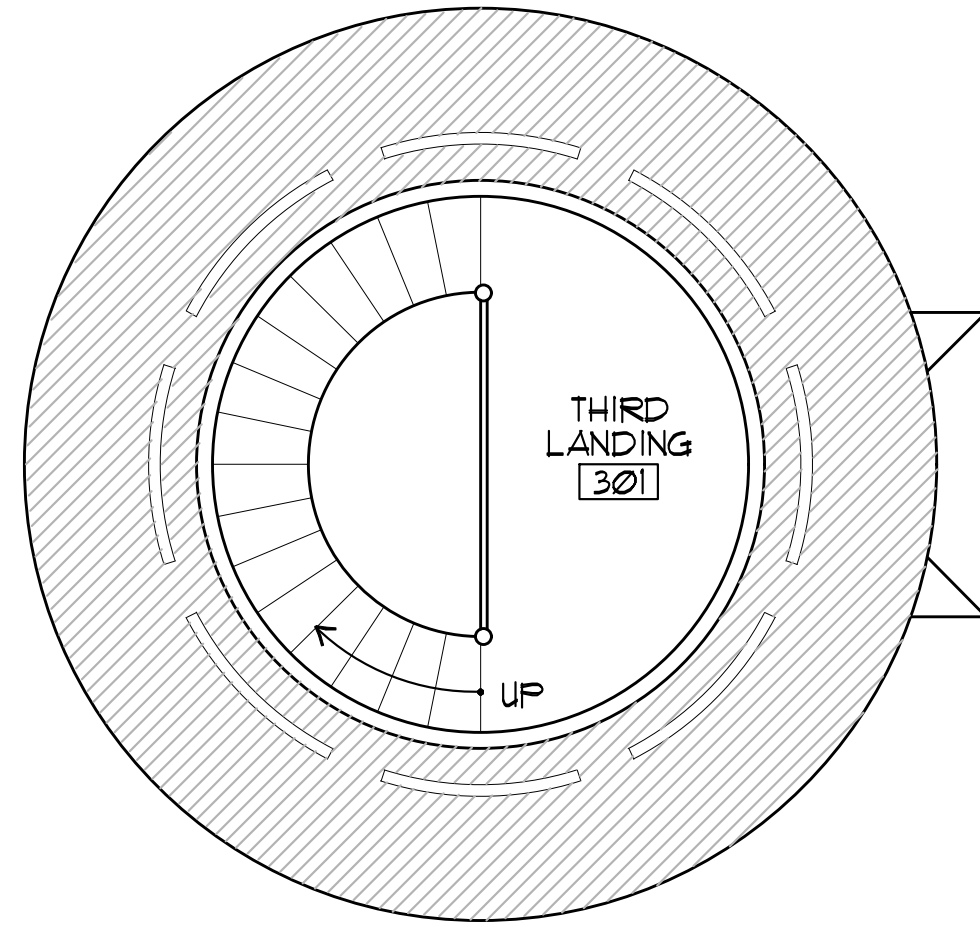
3 BOND BEAM @ BRACKET
1 1/2" = 1'-0"

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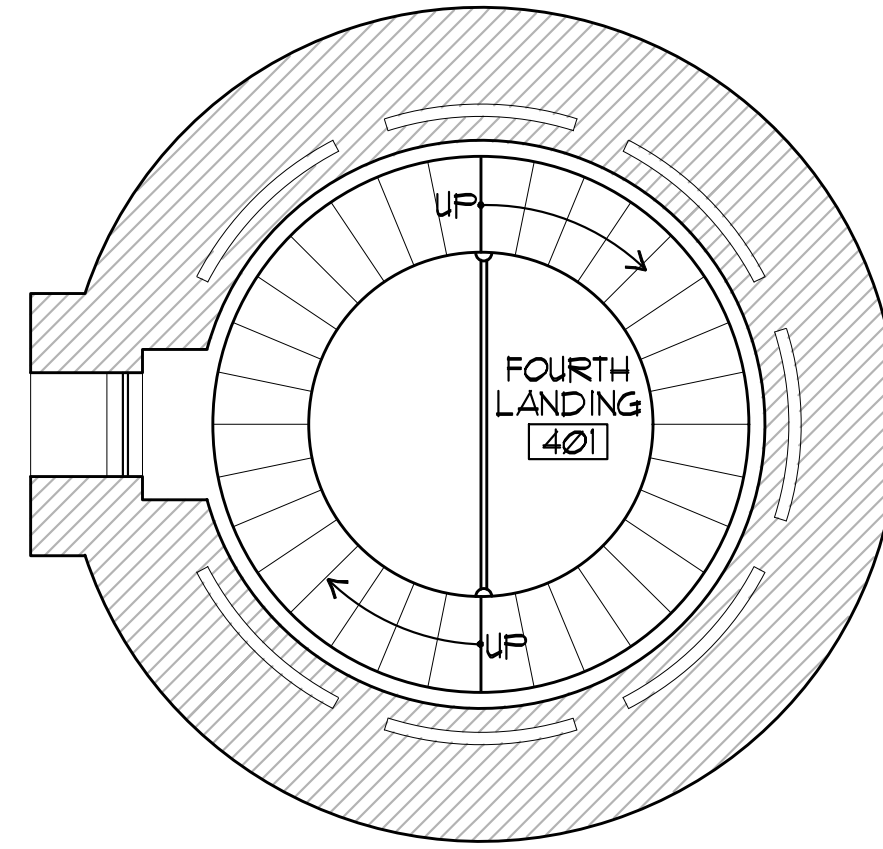
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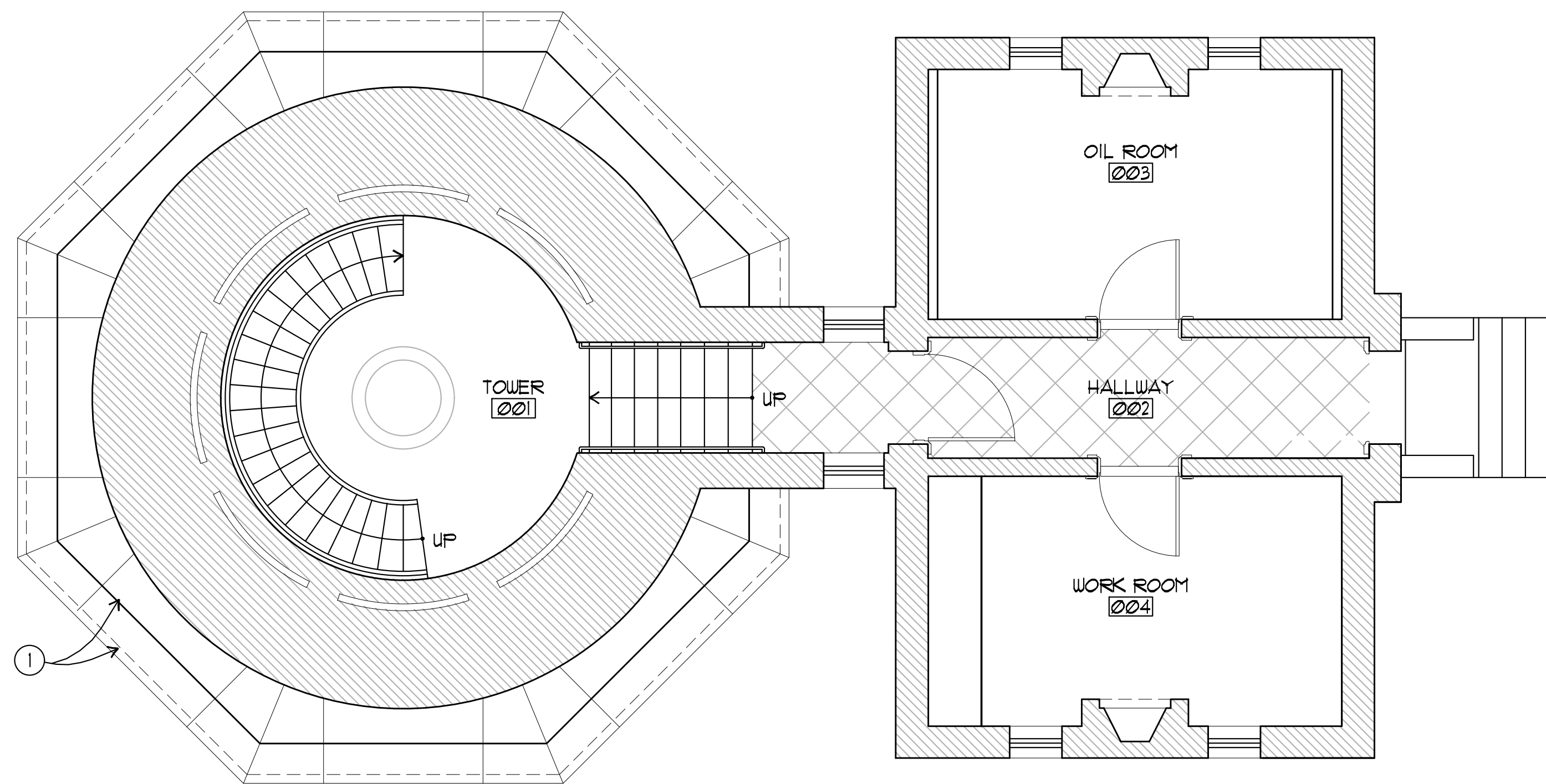
3 2ND LANDING DEMO PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-PLAN2.DWG



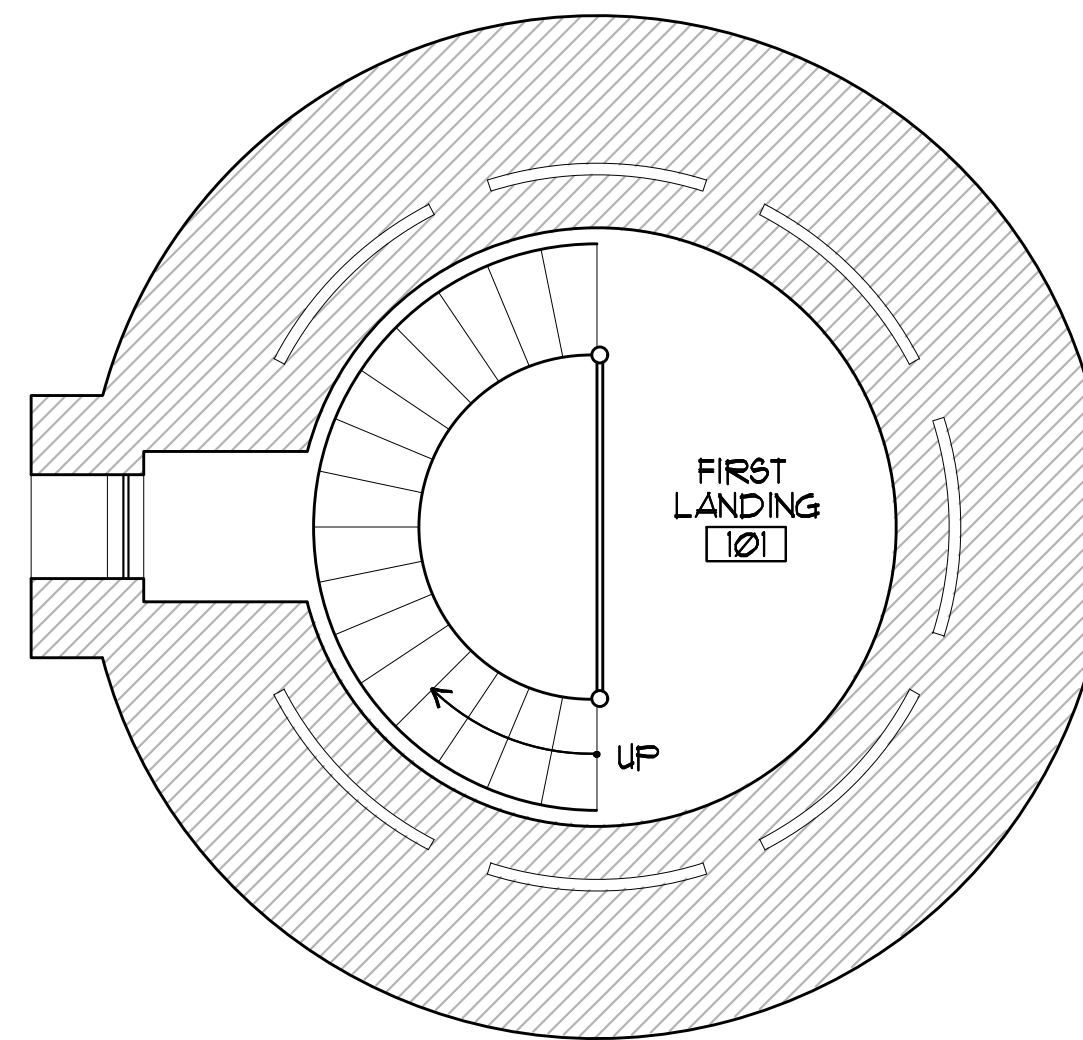
4 3RD LANDING DEMO PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-PLAN3.DWG



5 4TH LANDING DEMO PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-PLAN5.DWG



1 GROUND FLOOR DEMO PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-PLAN0 (GROUND).DWG



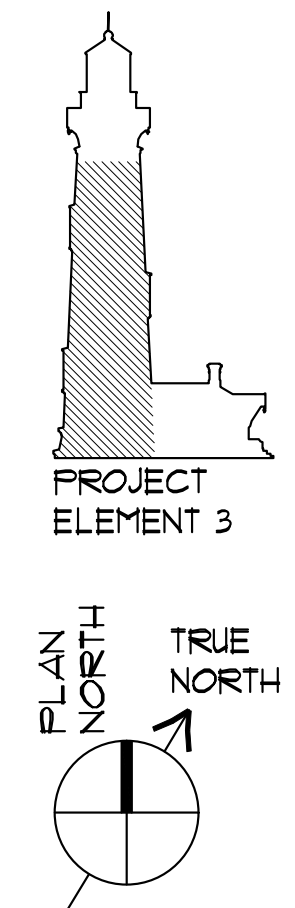
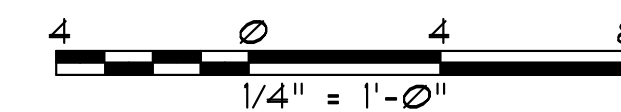
2 1ST LANDING DEMO PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-PLAN5.DWG

DEMOLITION PLAN GENERAL NOTES

1. NO WORK ABOVE 5TH FLOOR LANDING OR IN THE OIL HOUSE.
2. REMOVE PAINT COATINGS ON STAIRS TO BARE METAL.

DEMOLITION PLAN KEYNOTES

- ① SEE A4.1 FOR SCOPE AT BELT COURSES.



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 PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER
DEMOLITION PLANS

DRAWING NO. XXXX.001

SHEET NO. **A1.1-PE3**

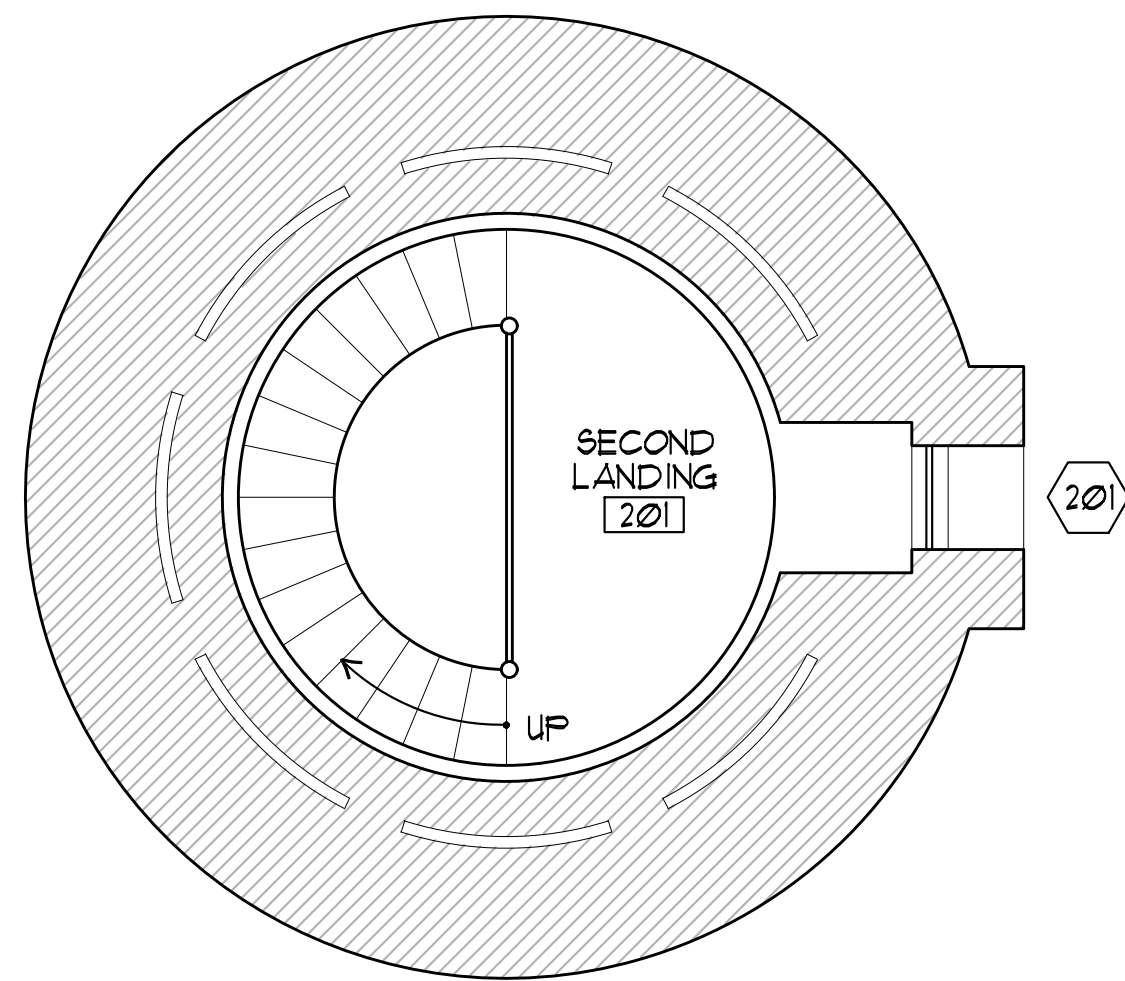
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FLOOR PLAN GENERAL NOTES

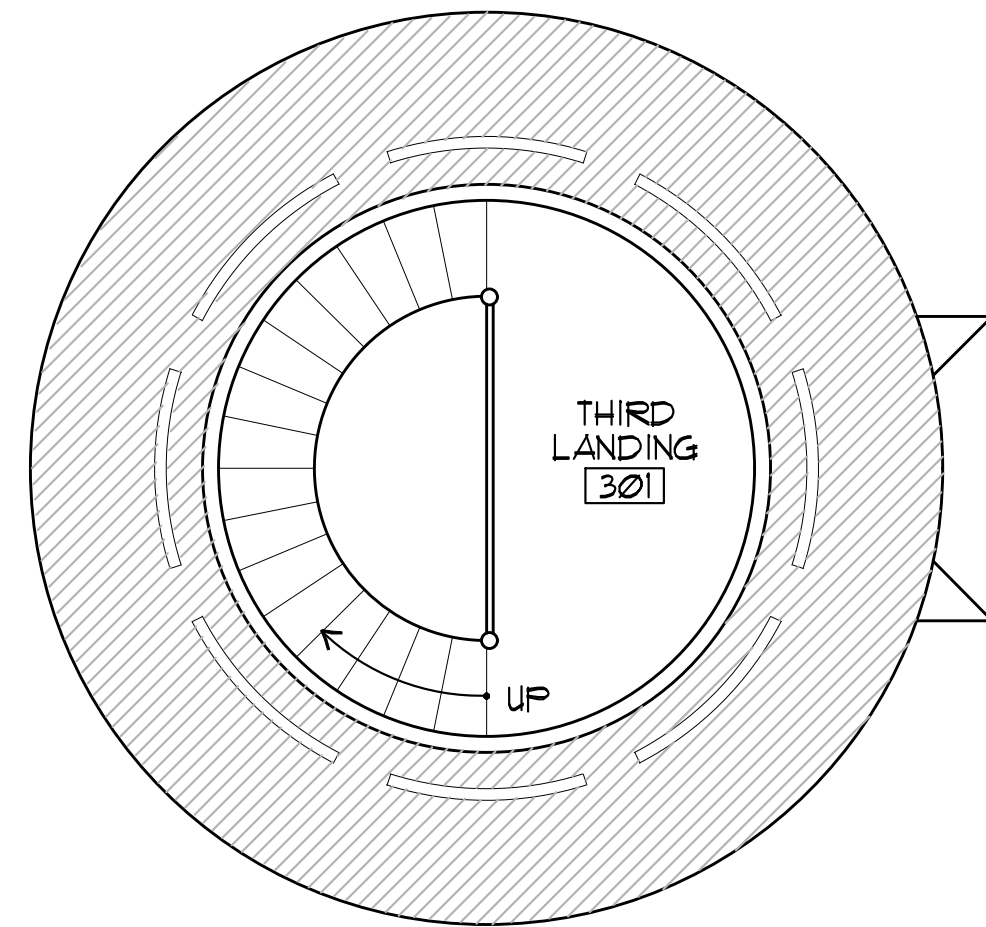
- 1. REPAINT INTERIOR IRONWORK.

FLOOR PLAN KEYNOTES

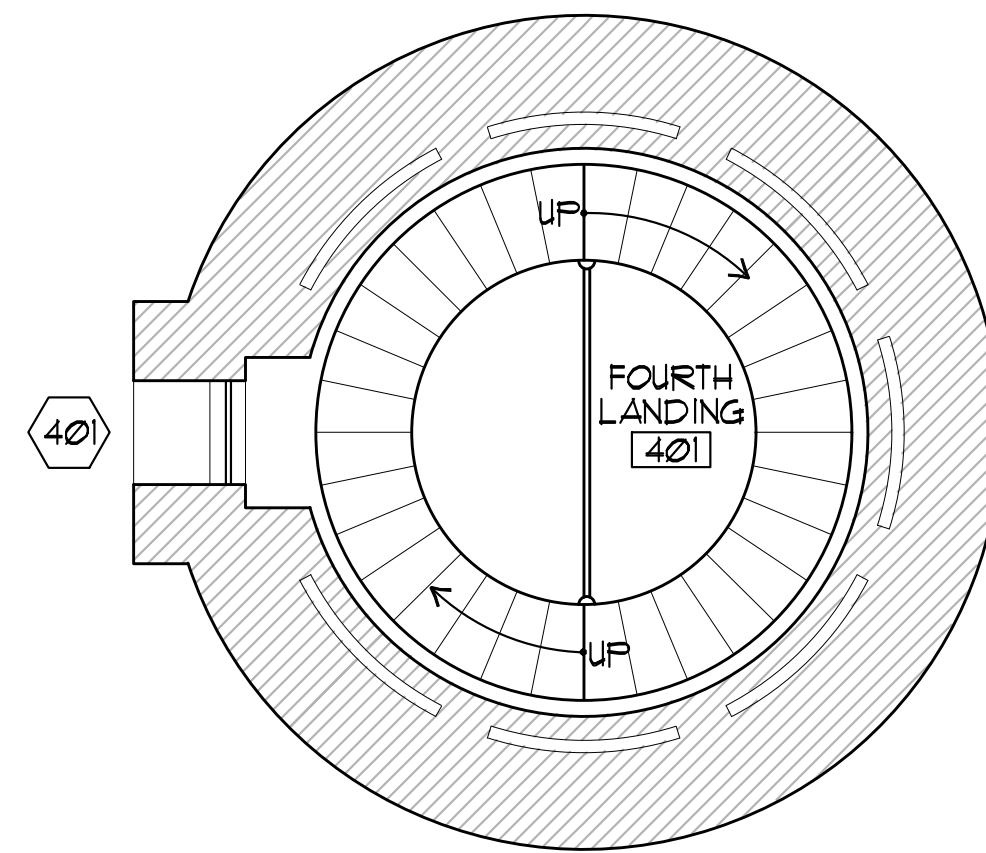
- ① SEE A4.1 FOR SCOPE OF WORK AT BELT COURSES.



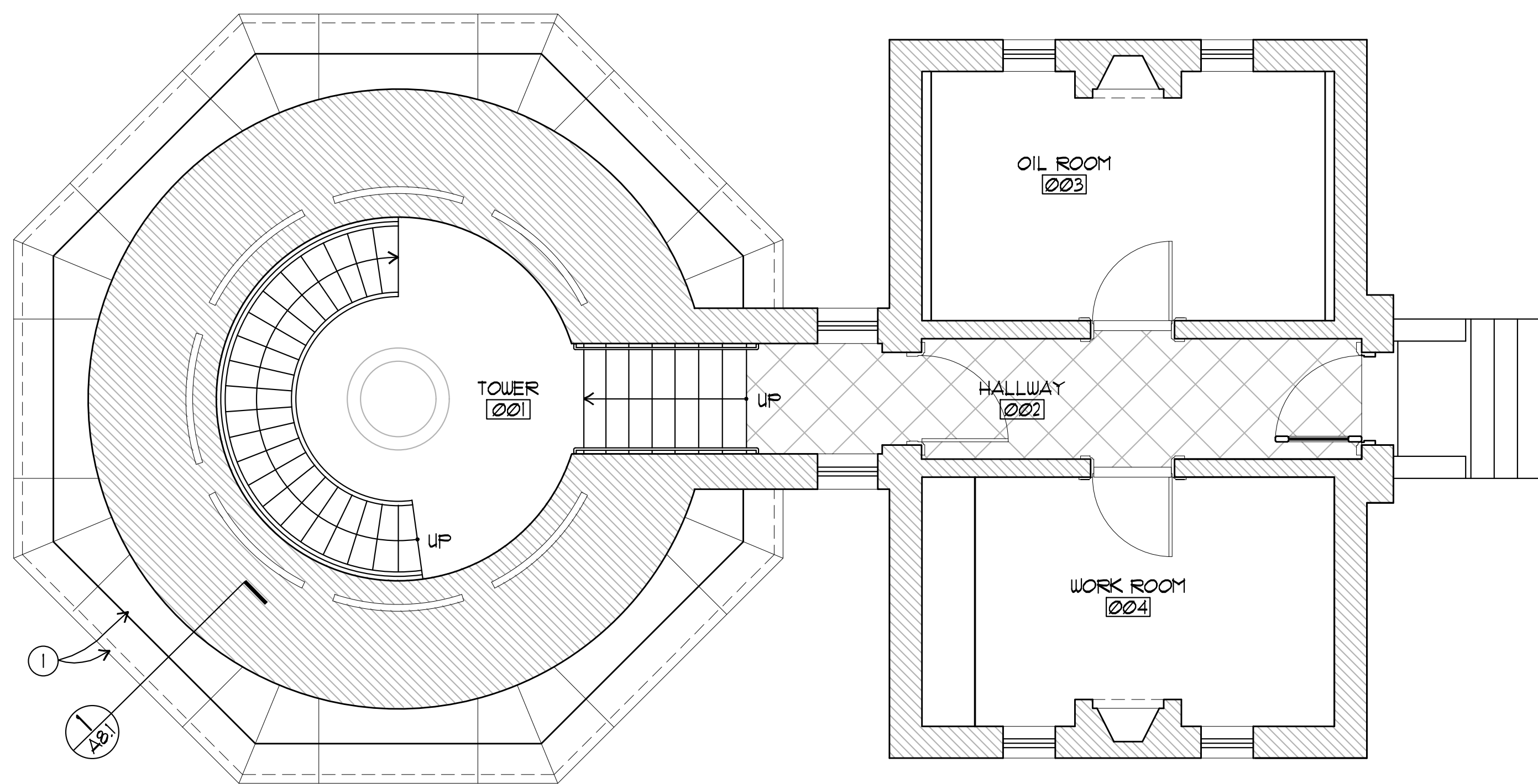
③ 2ND LANDING FLOOR PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-FLAN2.DWG



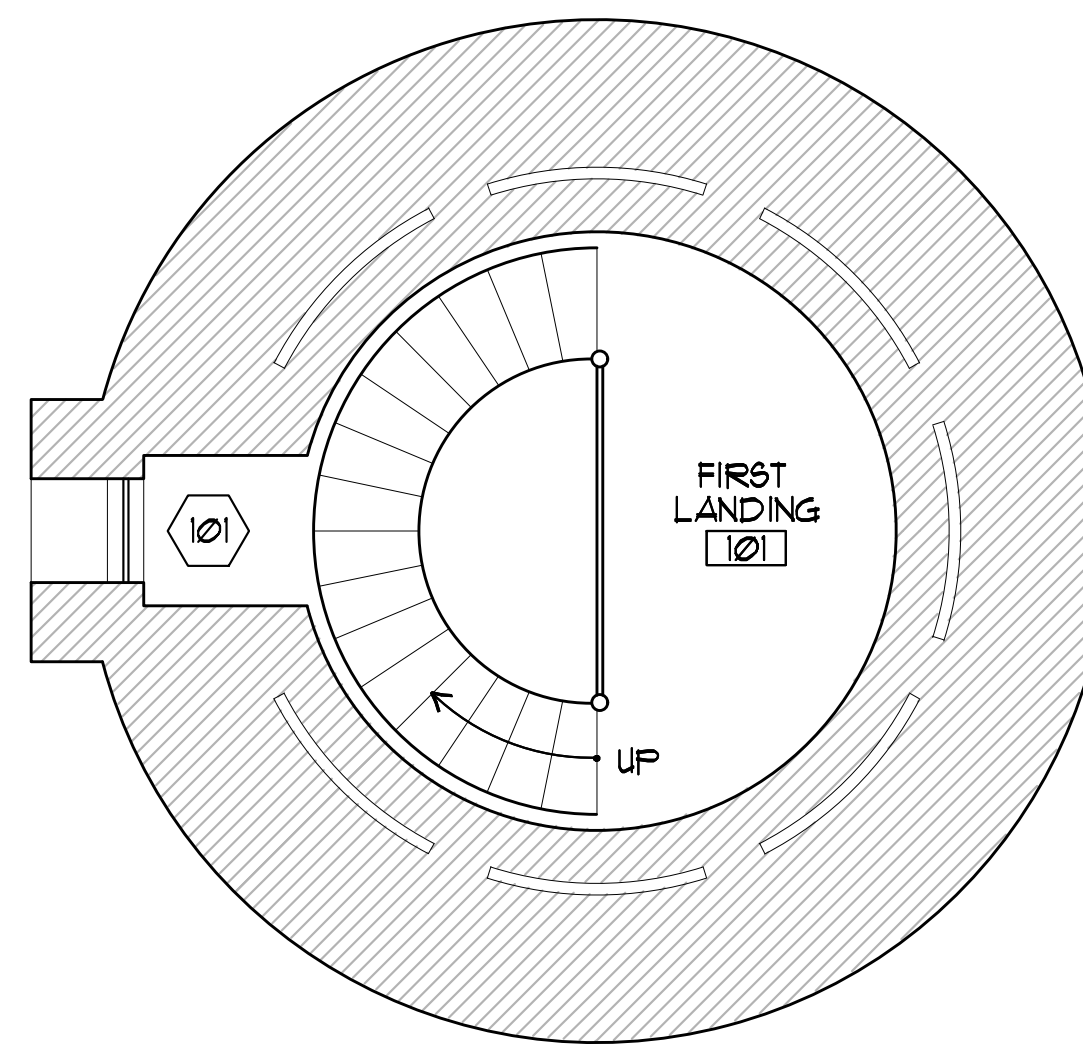
④ 3RD LANDING FLOOR PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-FLAN3.DWG



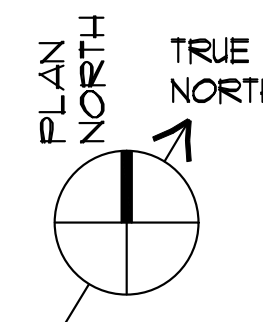
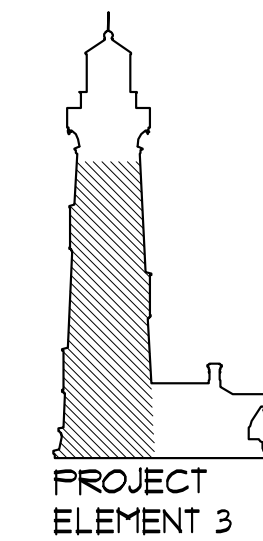
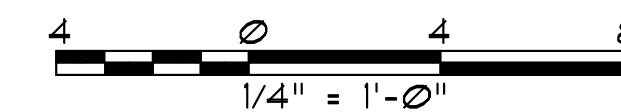
⑤ 4TH LANDING FLOOR PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-FLAN4.DWG



① GROUND FLOOR FLOOR PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-FLAN0 (GROUND).DWG



② 1ST LANDING FLOOR PLAN
 ALL SCALE: 1/4" = 1'-0"
 X-FLAN5.DWG



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Fig. 9, The Embarcadero - San Francisco, California
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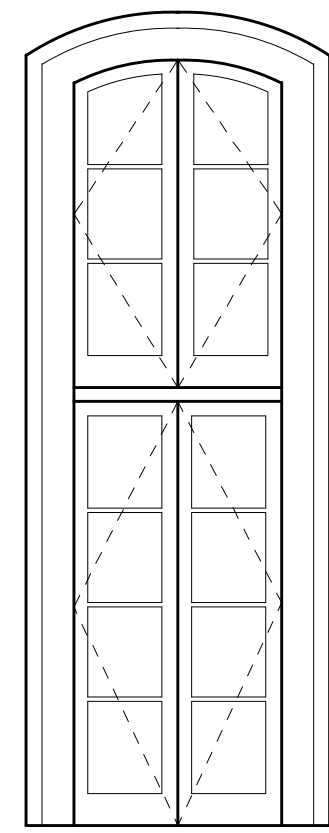
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #3 REHABILITATION OF THE LOWER LIGHTHOUSE TOWER
FLOOR PLANS

DRAWING NO. XXXX.001

SHEET NO. A2.1-PE3

36 OF 54

WINDOW SCHEDULE											
WINDOW NO.	ROOM NAME	(E)/(N)/(R)	TYPE	WINDOW			FRAME		GLAZING	REPAIR	REMARK
				APPROX. SIZE	MAT.	FINISH	MAT.	FINISH			
101	FIRST LANDING	(E)	A	-	WD	PT	WD	PT	(E)	LEVEL 1	WINDOW WAS INSTALLED NEW IN 2008.
201	SECOND LANDING	(E)	A	-	WD	PT	WD	PT	(E)	LEVEL 1	WINDOW WAS INSTALLED NEW IN 2008.
401	FOURTH LANDING	(E)	A	-	WD	PT	WD	PT	(E)	LEVEL 1	WINDOW WAS INSTALLED NEW IN 2008.



WINDOW TYPE A

GENERAL WINDOW NOTES

1. CONTRACTOR TO ENSURE PROPER WORKING ORDER AND WEATHERTIGHTNESS.
2. WINDOW SIZES INDICATED ARE NOMINAL. FIELD VERIFY ACTUAL SIZE.

WINDOW AND FRAME REPAIR LEGEND

SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF REPAIR ITEMS.

GENERAL REPAIRS

LEVEL 1 - WINDOW ASSEMBLY AND HARDWARE WITH MINOR MATERIAL DEFICIENCIES

- REMOVE LOOSE OR SCALING PAINT AT WINDOW AND FRAME.
- REPLACE CRACKED AND MISSING PUTTY.
- REPLACE CRACKED OR BROKEN GLAZING.
- REPAIR / REPLACE HARDWARE TO MATCH EXISTING WHERE BROKEN, MISSING, OR NON-FUNCTIONING.
- TIGHTEN LOOSE JOINTS.
- PREP AND REPAINT.
- REINSTALL WINDOWS AND RETURN TO GOOD WORKING ORDER.

WINDOW ABBREVIATIONS

SOURCE:	PRIMARY MATERIAL:	FINISH:	GLAZING:
(E) EXISTING	AL ALUMINUM	PT PAINT	CG CLEAR FLOAT GLASS
(R) RELOCATED	BRZ BRONZE	ST STAIN	OB5 OBSCURE GLASS
(N) NEW	MTL METAL	V VARNISH	SG SAFETY GLASS
	STL STEEL		SF SAFETY FILM
	VNL VINYL		
	WD WOOD		



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Fig 9, The Embarcadero - San Francisco, California
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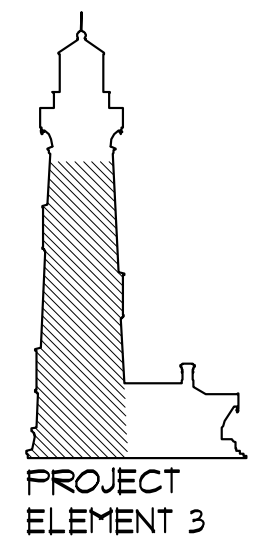
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #3 REHABILITATION
 OF THE LOWER LIGHTHOUSE TOWER
SCHEDULES



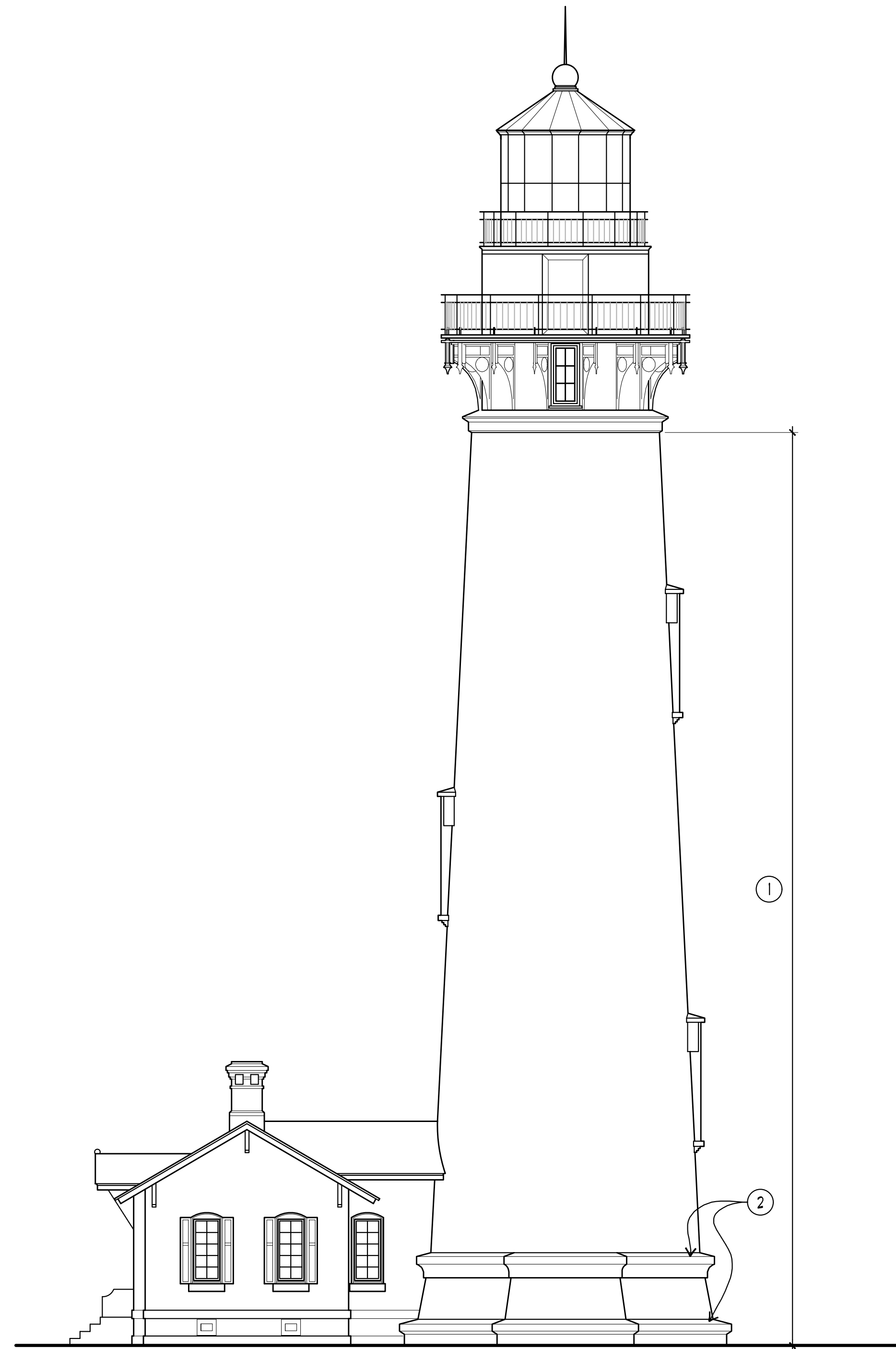
FINISH SCHEDULE												
ROOM NO.	ROOM NAME	FLOOR		BASE		WALLS		DOOR/WINDOW CASINGS / CROWN MOLDINGS		CEILING		REMARKS
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	
001	TOWER	(E) CONC	PT	(E) BRICK	PT	(E) BRICK	PT	-	-	(E) IRON	PT	STRIP, REPOINT, AND REPAINT THREE AREAS OF APPROX. 4 SF EACH. REPAINT BASE AT GROUND LEVEL COMPLETE
101	FIRST LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	(E) WD	PT	(E) IRON	PT	STRIP, REPOINT AND REPAINT 6 SF AT WINDOW REVEAL
201	SECOND LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	(E) WD	PT	(E) IRON	PT	-
301	THIRD LANDING	(E) IRON	PT	-	-	(E) BRICK	PT	-	-	(E) IRON	PT	-
401	FOURTH LANDING	(E) IRON	(E) PT	-	-	(E) BRICK	(E) PT	(E) WD	(E) PT	(E) IRON	(E) PT	FINISH WORK THIS LEVEL TO BE COMPLETED IN PREVIOUS PROJECT.

FINISH LEGEND		GENERAL FINISH NOTES
CONC	CONCRETE	<ol style="list-style-type: none"> 1. SEE SPECS FOR FURTHER INFORMATION ON PAINT COLOR AND TYPE. 2. AT INTERIOR TOWER WALLS, SCRAPE LOOSE AND SCALING PAINT, REPOINT AND REPAINT REPAIRED AREAS. KNOWN AREAS OF REPAIR ARE CALLED OUT ABOVE. 3. AT STAIRS, REMOVE PAINT TO BARE METAL AND REPAINT.
CF	CONCRETE FINISH	
CPT	CARPET	
CT	CERAMIC TILE	
PT	PAINT	
FL	PLASTER	
FLYWD	PLYWOOD	
SL	SLATE TILE	
SLR	SEALER	
WD	WOOD	

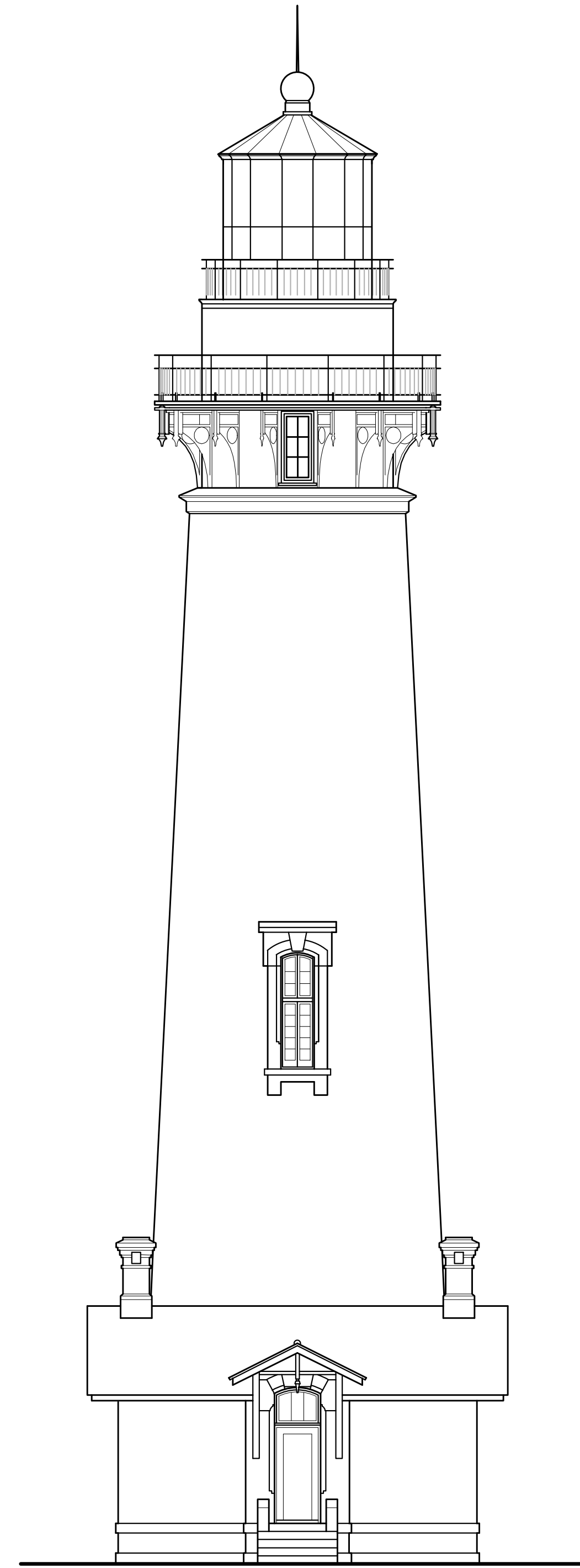
DRAWING NO.
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SHEET NO.
A2.2-PE3

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1 NORTH ELEVATION (SOUTH ELEVATION SIMILAR OPPOSITE HAND)
 A3.1 SCALE: 1/8" = 1'-0"
 X-ELEVATIONS



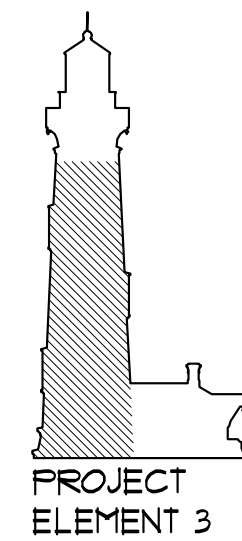
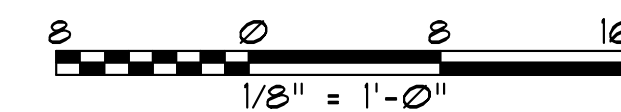
2 EAST ELEVATION
 A3.1 SCALE: 1/8" = 1'-0"
 X-ELEVATIONS

ELEVATION GENERAL NOTES

1. GENERAL SCOPE NOTES TYPICAL FOR ALL ELEVATIONS.
2. PAINT COLORS TO MATCH (E), UON.

ELEVATION KEYNOTES

- ① REMOVE PAINT COATINGS TO BARE BRICK, TYPICAL ALL ELEVATIONS OF TOWER. REPOINT AND REPAINT. ASSUME 20% REPOINTING.
- ② REPAIR/REPLACE BELT COURSES, SEE ENLARGED PLAN ON A4.1.



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Fig. 9, The Embarcadero - San Francisco, California
 4/14/11 (186) 4/14/11 (186)

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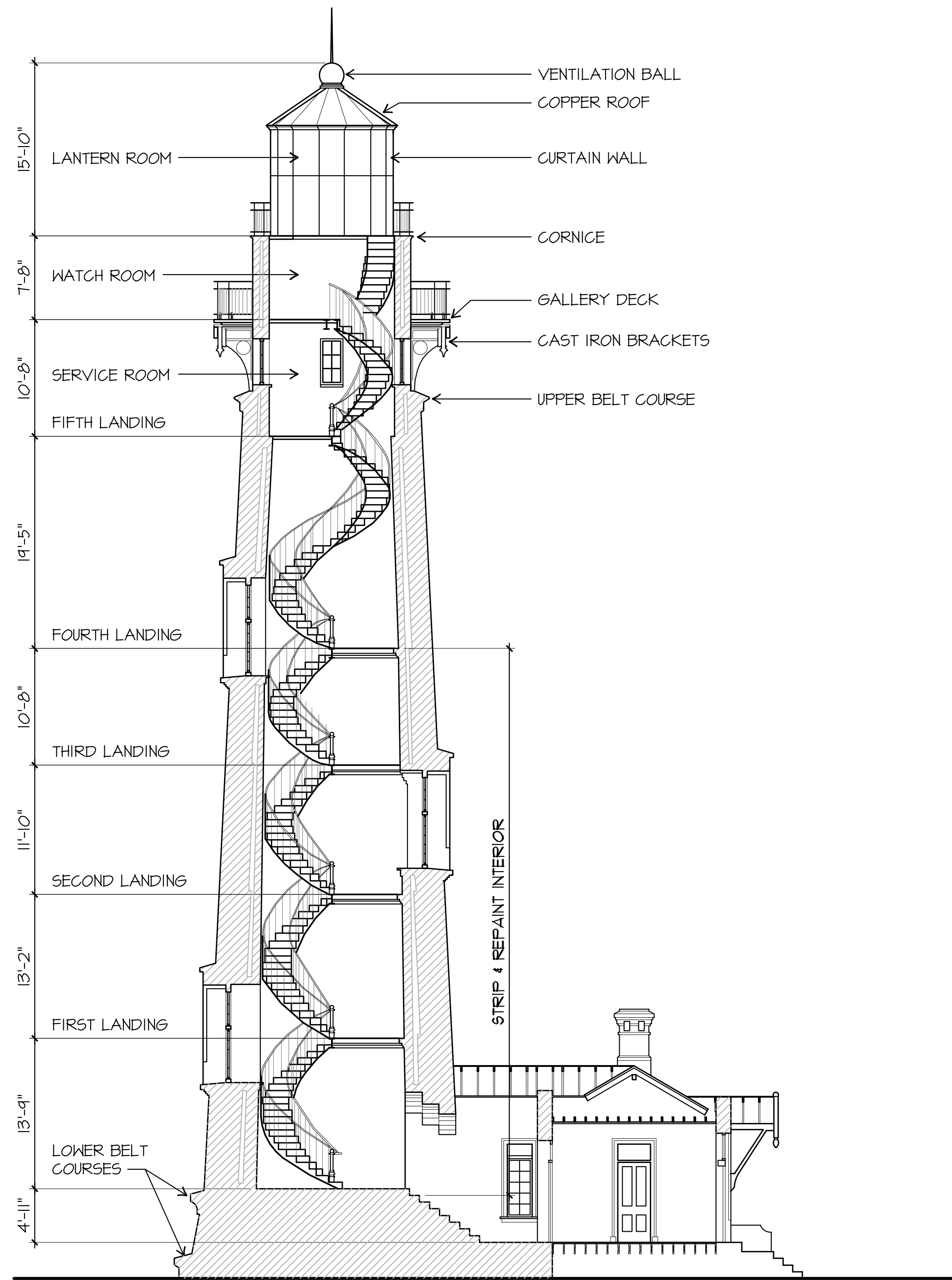
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 PROJECT ELEMENT #3 REHABILITATION
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ELEVATIONS

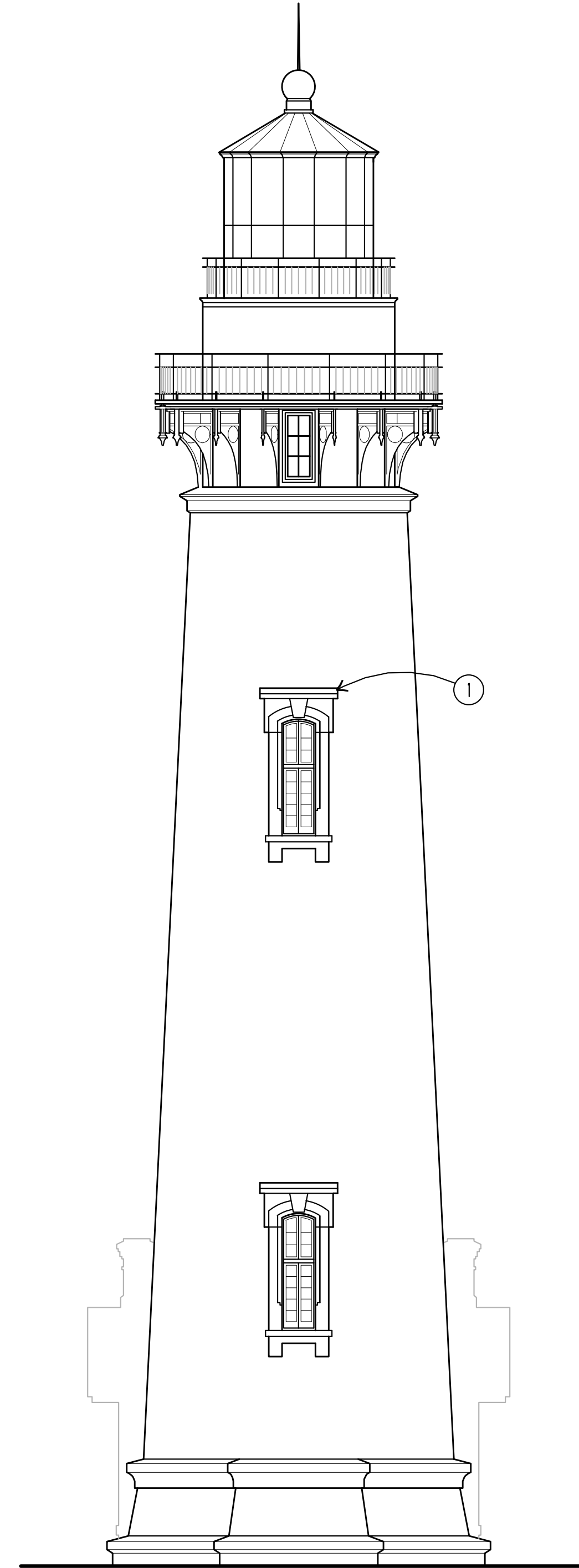
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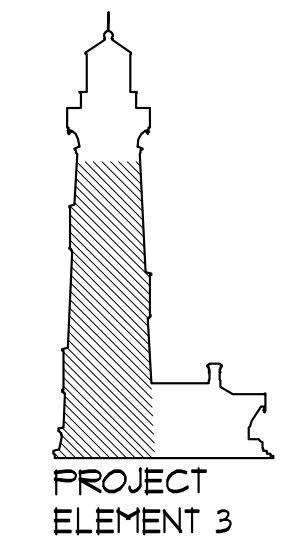
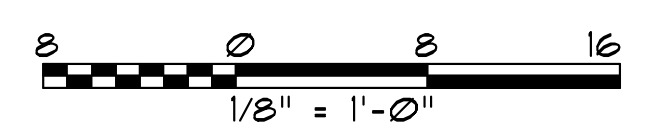
1 BUILDING SECTION
 A3.2 SCALE: 1/8" = 1'-0"
 X-SECTION FULL



2 WEST ELEVATION
 A3.2 SCALE: 1/8" = 1'-0"
 X-ELEVATIONS

ELEVATION KEYNOTES

- ① REATTACH LINTEL CORNER WITH STAINLESS STEEL PIN & EPOXY.



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Fig. 9, The Embarcadero - San Francisco, California
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 PROJECT ELEMENT #3 REHABILITATION
 OF THE LOWER LIGHTHOUSE TOWER
ELEVATIONS AND SECTION

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SHEET NO.
A3.2-PE3

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OF THE LOWER LIGHTHOUSE TOWER

ENLARGED PLANS

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SHEET NO.
A4.1-PE3

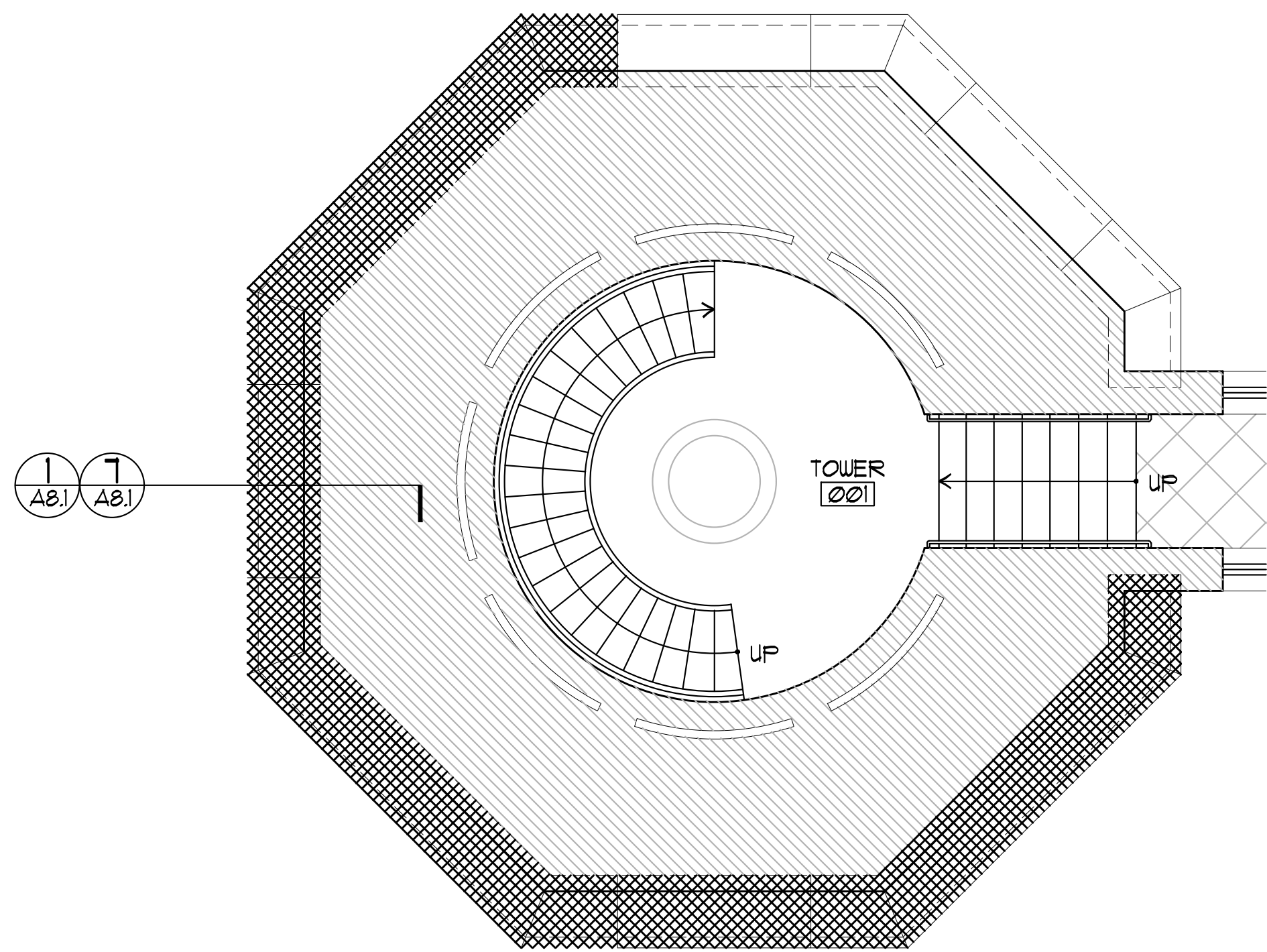
40 OF 54

GENERAL PLAN NOTES

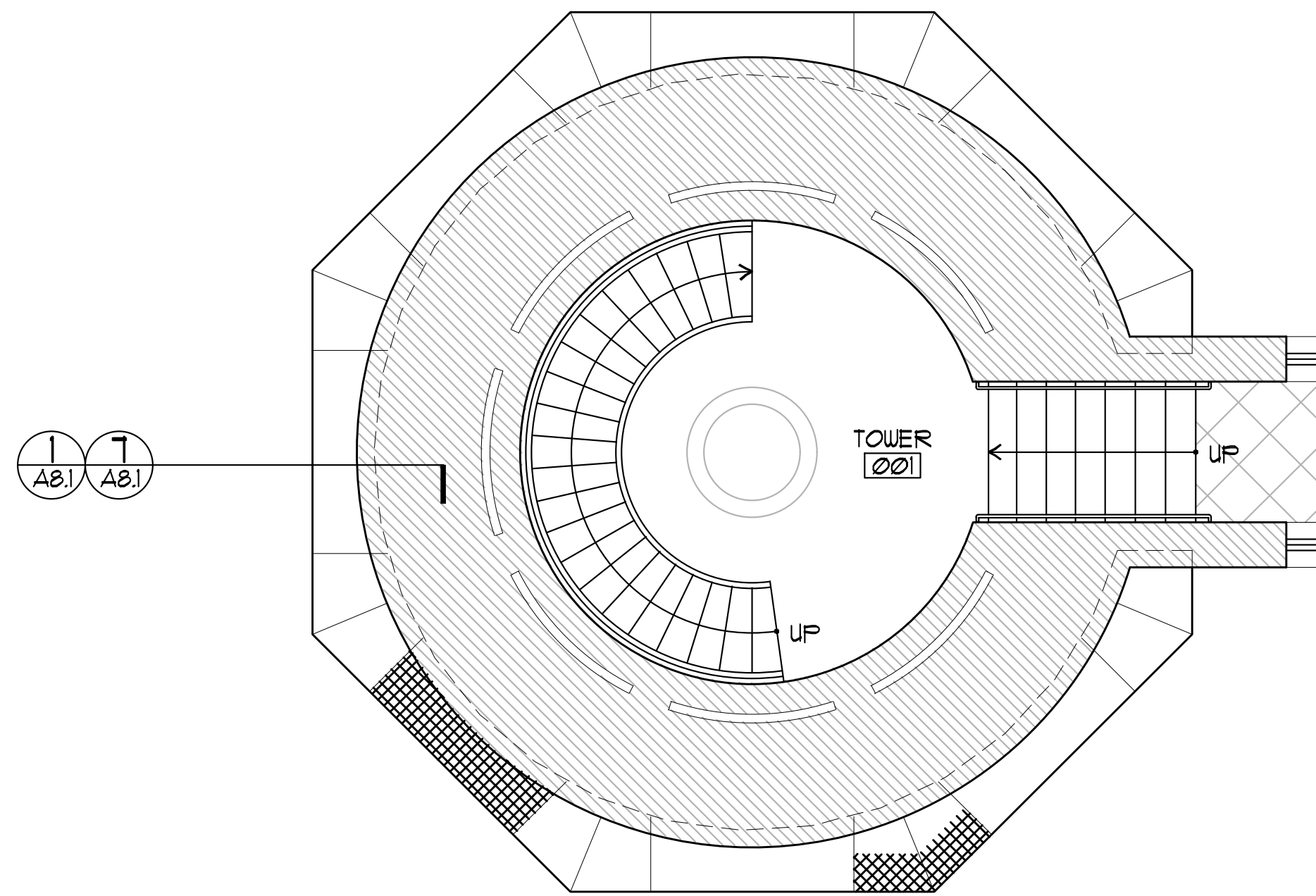
1. DEMO MASONRY AND REMOVE BELT COURSE SECTIONS SEE .
2. CAST (N) SECTIONS IN CAST IRON AND INSTALL TO FIT.
3. LOWER BELT COURSE: REPLACE DETERIORATED BELT COURSE SECTIONS (AS INDICATED WITH HATCHING) WITH NEW CAST SECTIONS.
4. UPPER BELT COURSE: REPAIR CRACKED BELT COURSE SECTIONS (AS INDICATED WITH HATCHING).
5. CONSERVE SECTIONS THAT DON'T REQUIRE REPAIR OR REPLACEMENT (NOT HATCHED).
6. PREP ALL BELT COURSE SECTIONS IN THE SHOP.
7. REINSTALL TO FIT.

ALTERNATE:

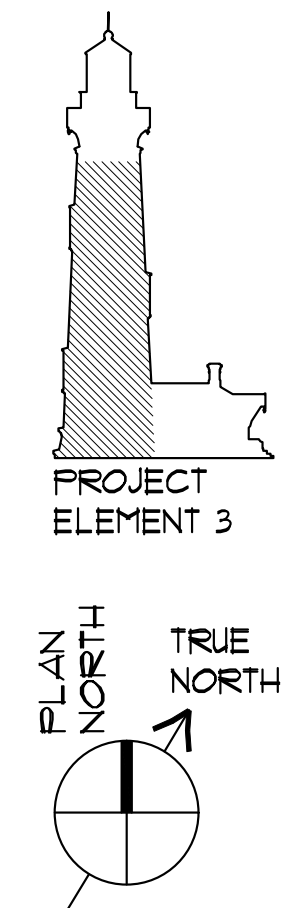
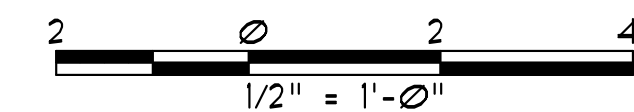
1. REMOVE ONLY DETERIORATED BELT COURSE SECTIONS AT LOWER BELT COURSE. REPAIR AND REPAINT REMAINING BELT COURSE SECTIONS IN SITU (SEE 12/A8.1).



2 GROUND FLOOR PLAN - LOWER BELT COURSE
A4.1 SCALE: 1/2" = 1'-0"
X-PLANS.DWG



1 GROUND FLOOR PLAN - UPPER BELT COURSE
A4.1 SCALE: 1/2" = 1'-0"
X-PLANS.DWG



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PROJECT ELEMENT #3 REHABILITATION
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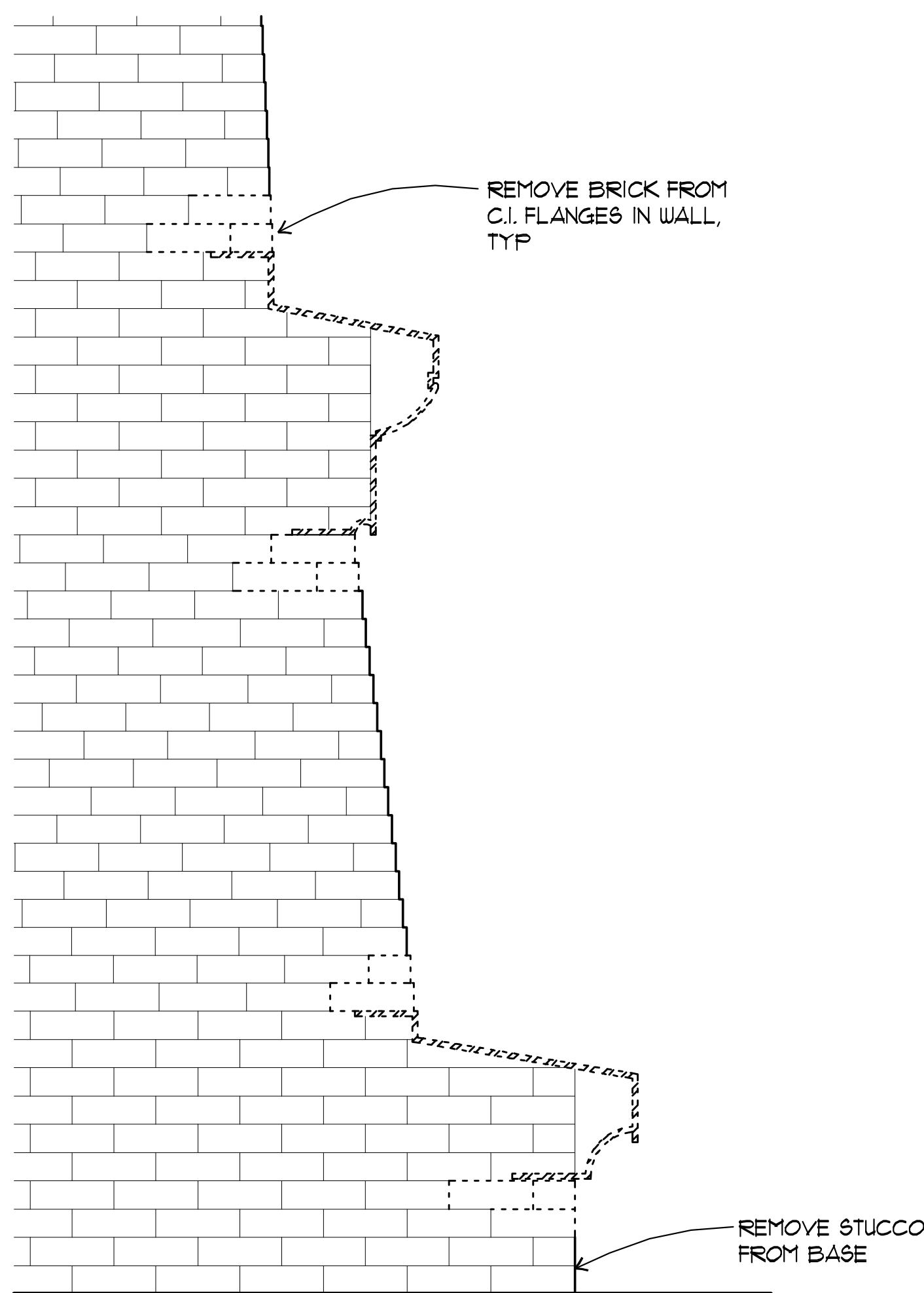
EXTERIOR DETAILS

PROJECT
ELEMENT 3

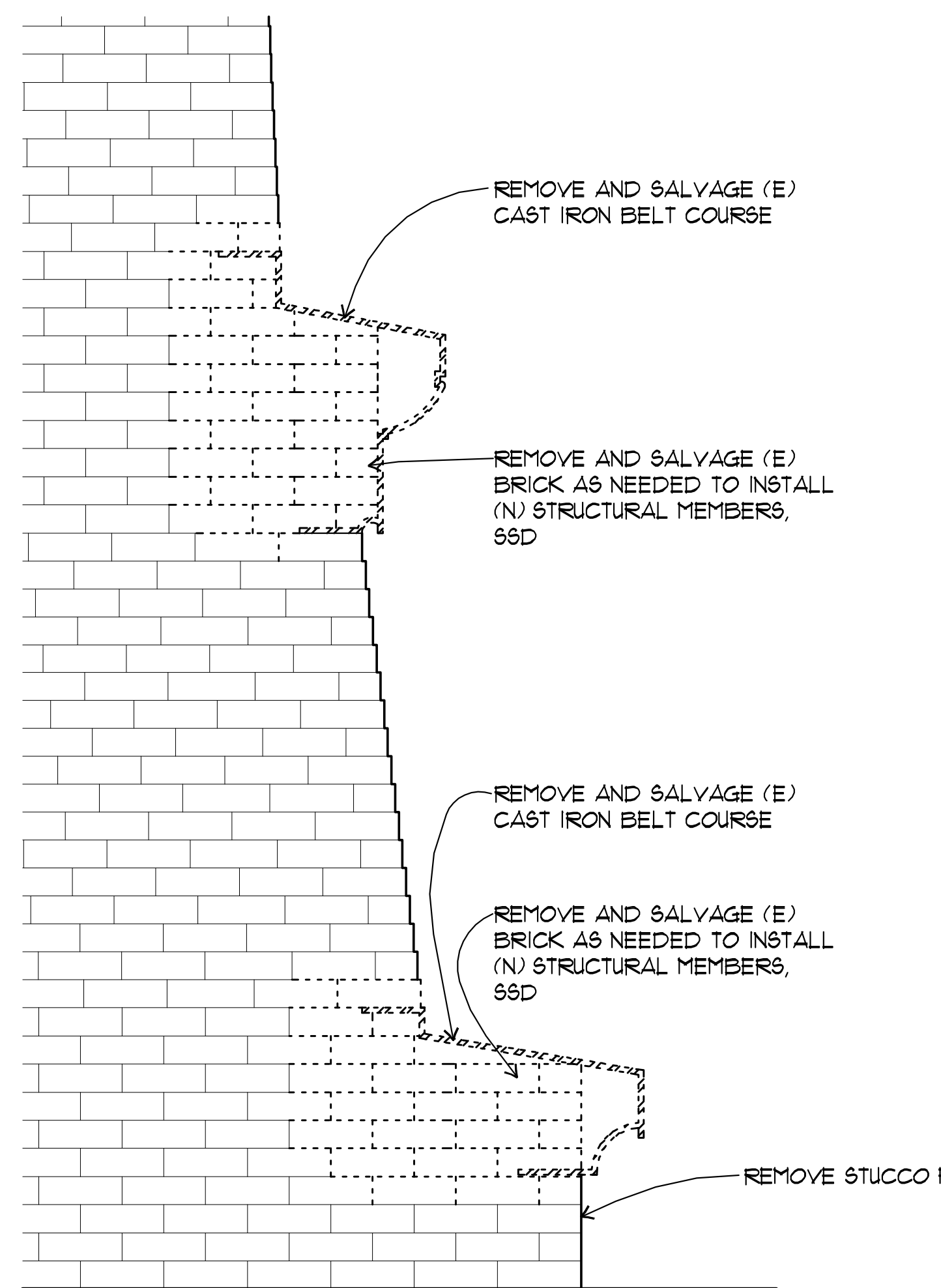
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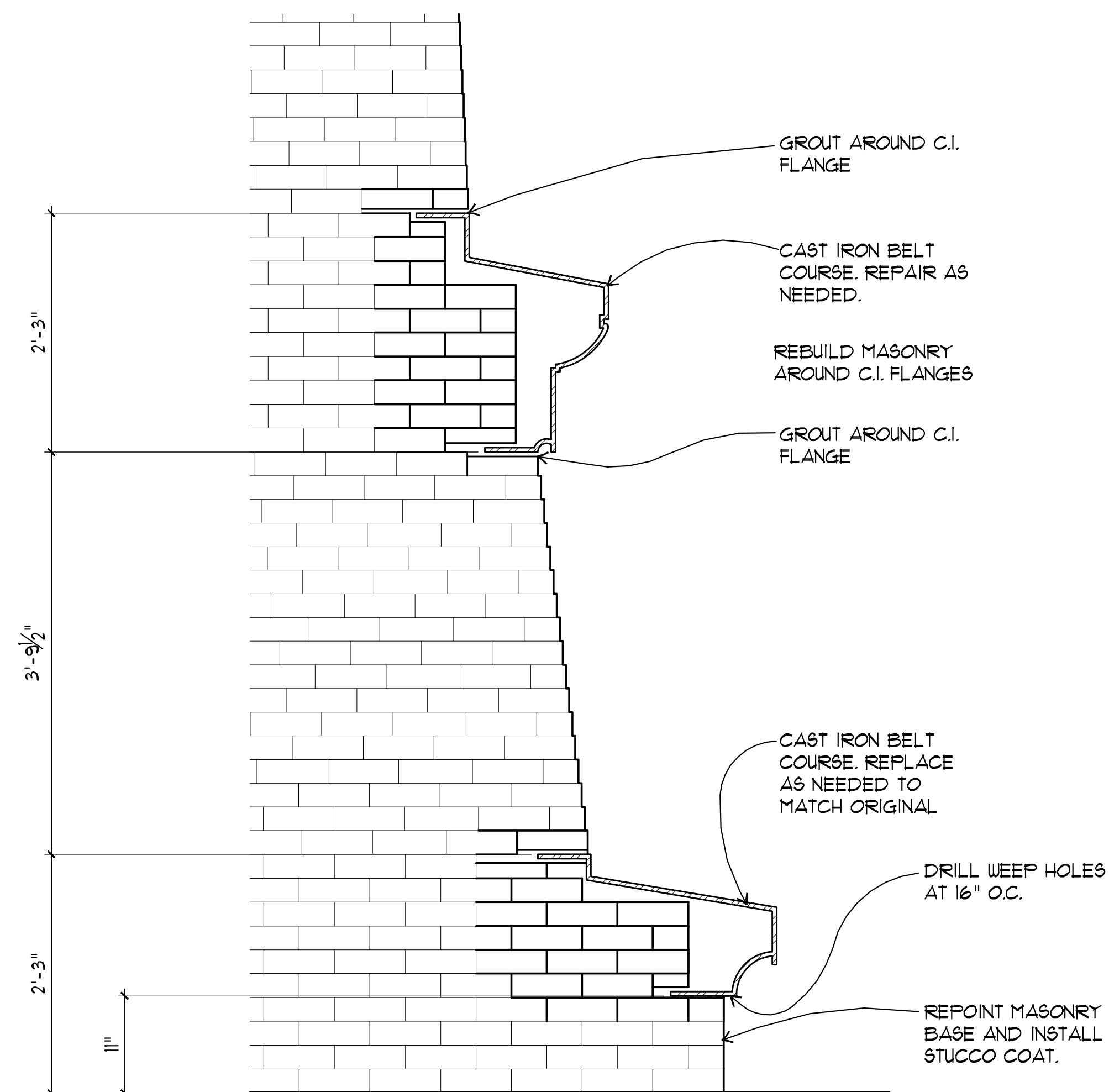
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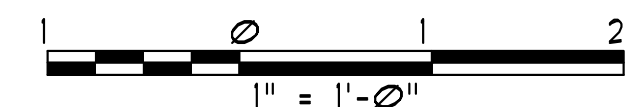
12 DEMO SECTION AT LOWER BELT COURSES (ALT)
SCALE: 1" = 1'-0"



7 DEMO SECTION AT LOWER BELT COURSES
SCALE: 1" = 1'-0"



1 SECTION AT LOWER BELT COURSES
SCALE: 1" = 1'-0"



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DEMOLITION PLAN GENERAL NOTES

- REMOVE VAT FLOORING AND FIBERBOARD SUBFLOORING THROUGHOUT OIL ROOM AND WORK ROOM.

DEMOLITION PLAN KEYNOTES

- DEMO FLOORING AND FLOOR SHEATHING FOR ACCESS TO CRAWLSPACE.



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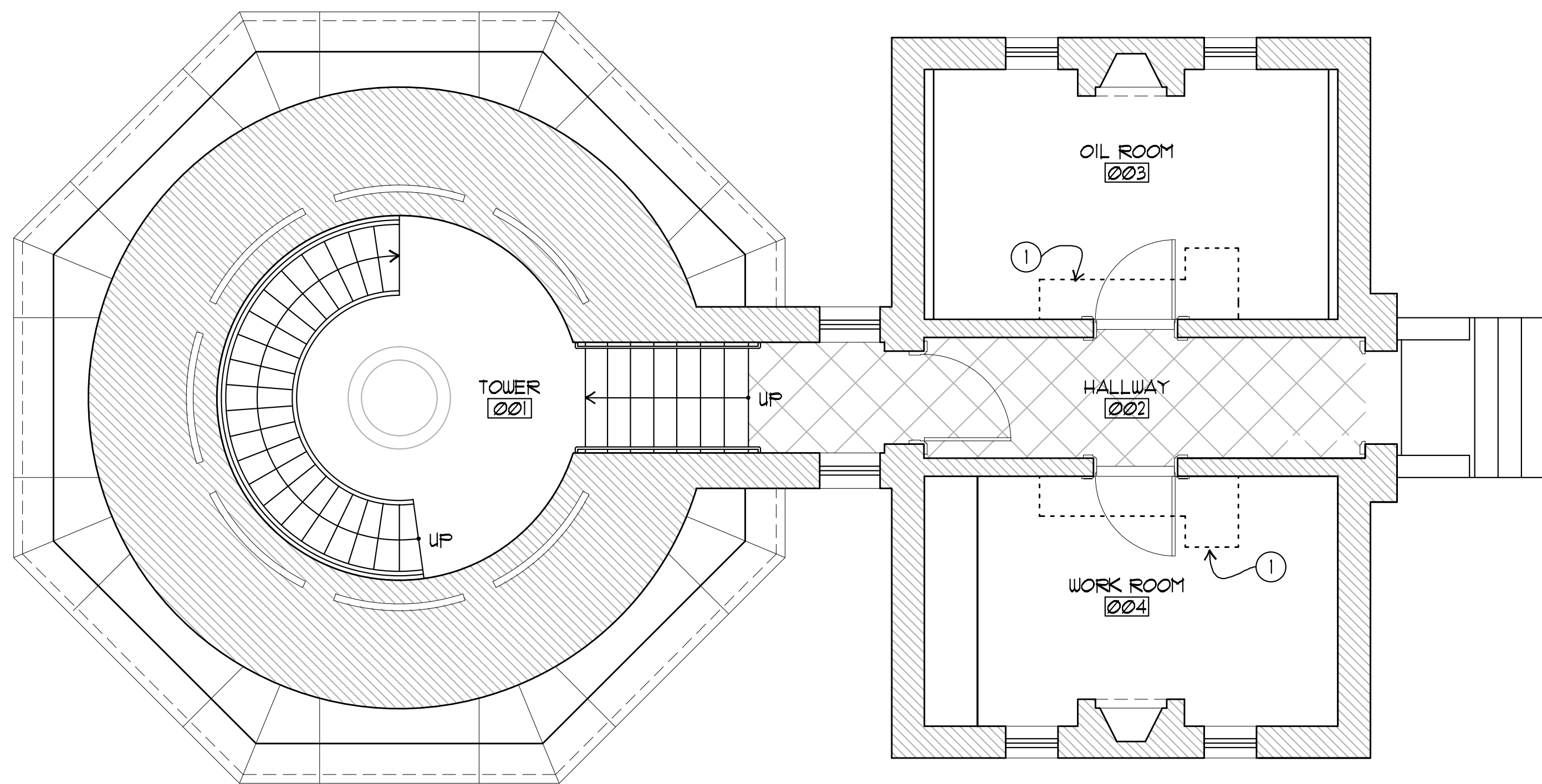
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PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
DEMOLITION PLANS

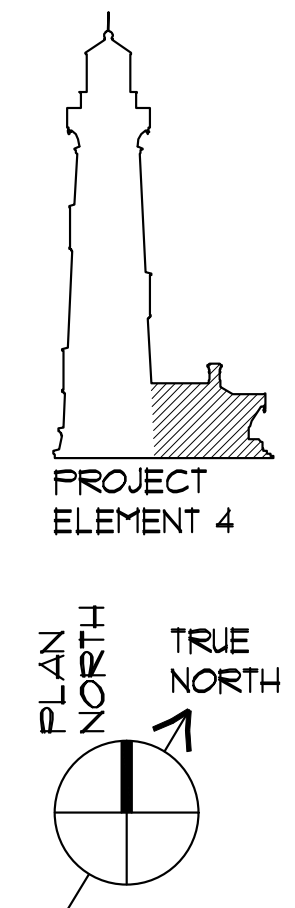
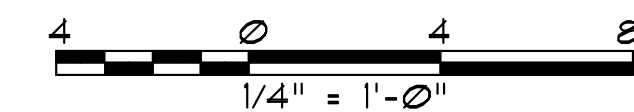
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SHEET NO.
A1.1-PE4

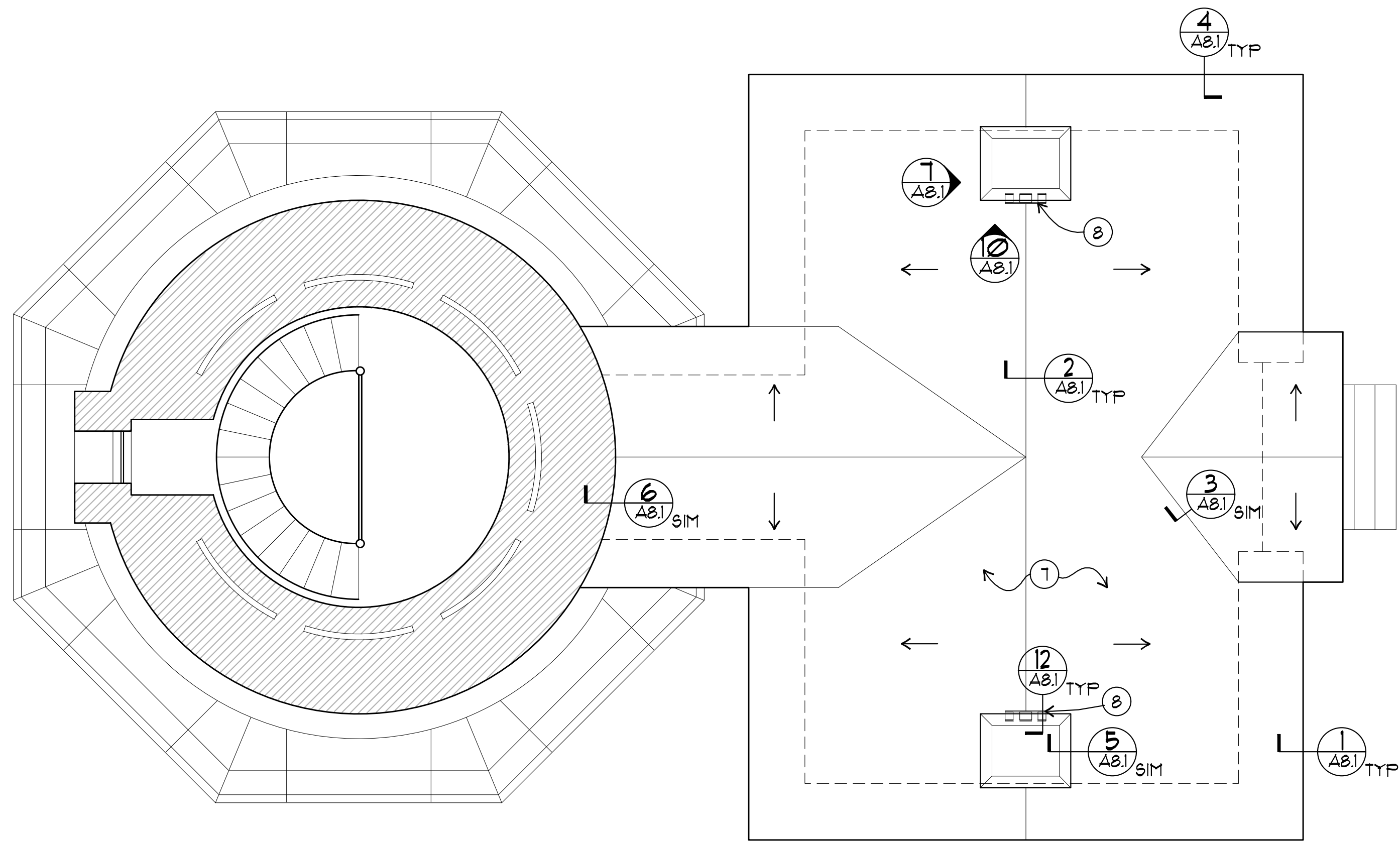
42 OF 54



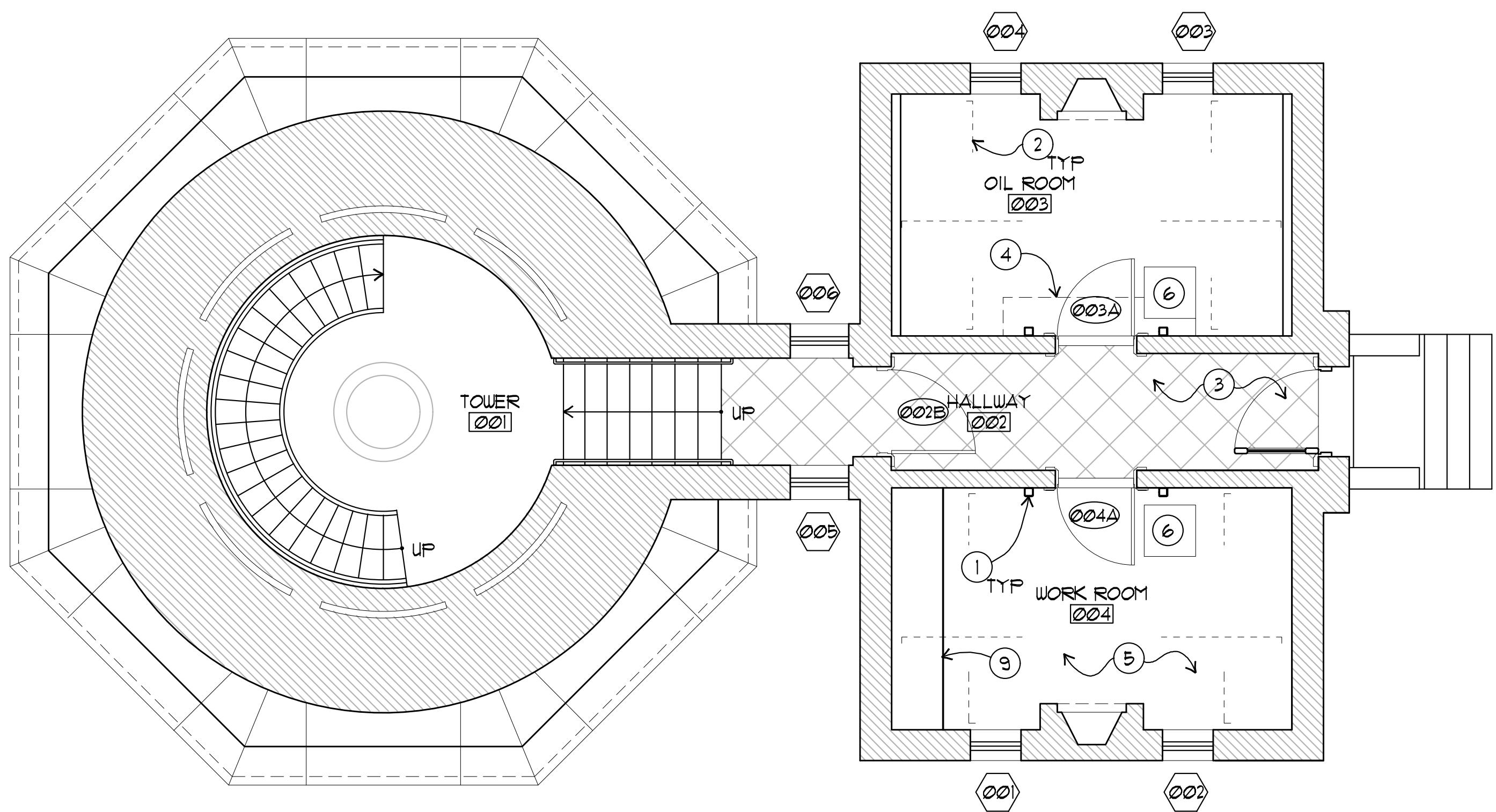
GROUND FLOOR DEMO PLAN
SCALE: 1/4" = 1'-0"
X-PLAN0 (GROUND).DWG



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2 ROOF PLAN
 A2.1 SCALE: 1/4" = 1'-0"
 X-ROOF.DWG



1 GROUND FLOOR PLAN
 A2.1 SCALE: 1/4" = 1'-0"
 X-PLAN0 (GROUND).DWG

GENERAL PLAN NOTES

1. PREP & REPAINT ALL INTERIOR WALLS & CEILING.

PLAN KEYNOTES

- 1 PROVIDE AND INSTALL VERTICAL STEEL TUBES ON THE ROOM-SIDE OF THE HALLWAY WALLS, CONNECT TO WALL AND FRAMING ABOVE CEILING, \$\$\$.
- 2 PROVIDE AND INSTALL FLOOR-TO-WALL SEISMIC ANCHORS BELOW FLOOR LEVEL, \$\$\$.
- 3 SCRAPE LOOSE PAINT FROM CLAY TILE FLOORS, PREP AND REPAINT.
- 4 PROVIDE AND INSTALL (N) SHEET FLOORING OVER (N) SUBFLOOR WHERE FLOORING REMOVED FOR ACCESS.
- 5 REPAIR WD FLOORING.
- 6 PROVIDE AND INSTALL (N) FLOOR ACCESS PANEL.
- 7 REPLACE (E) ROOFING WITH NEW WOOD SHINGLES, SEE A3.2.
- 8 INSTALL SEISMIC STRENGTHENING AT CHIMNEY, SEE A3.2.
- 9 (E) CASEWORK TO REMAIN.



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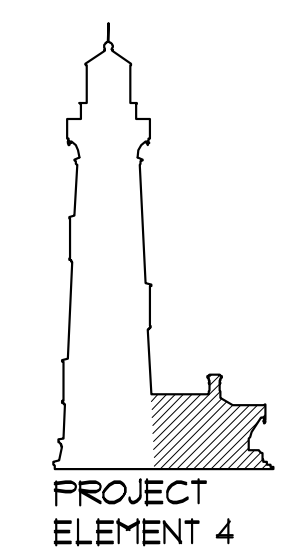
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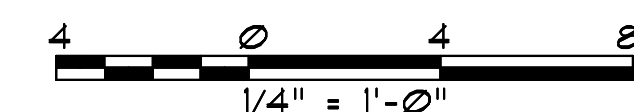
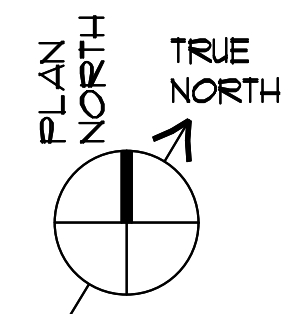
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 PROJECT ELEMENT #4
 REHABILITATION OF THE OIL HOUSE
FLOOR & ROOF PLAN



PROJECT ELEMENT 4

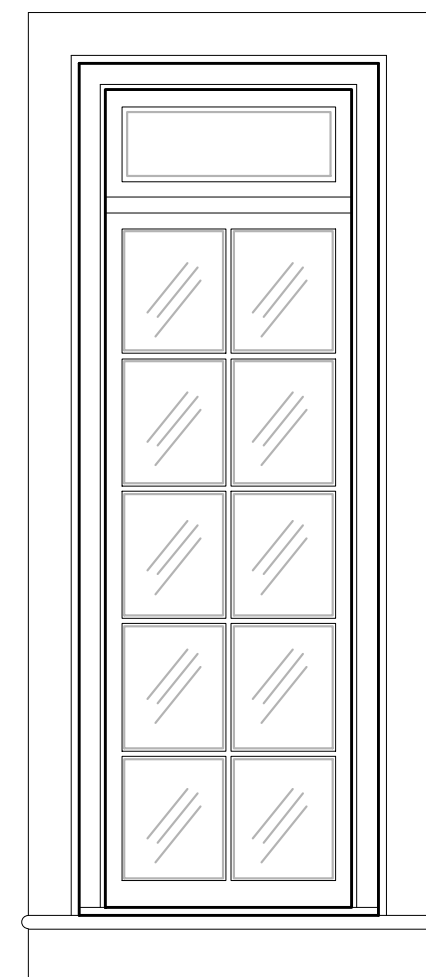


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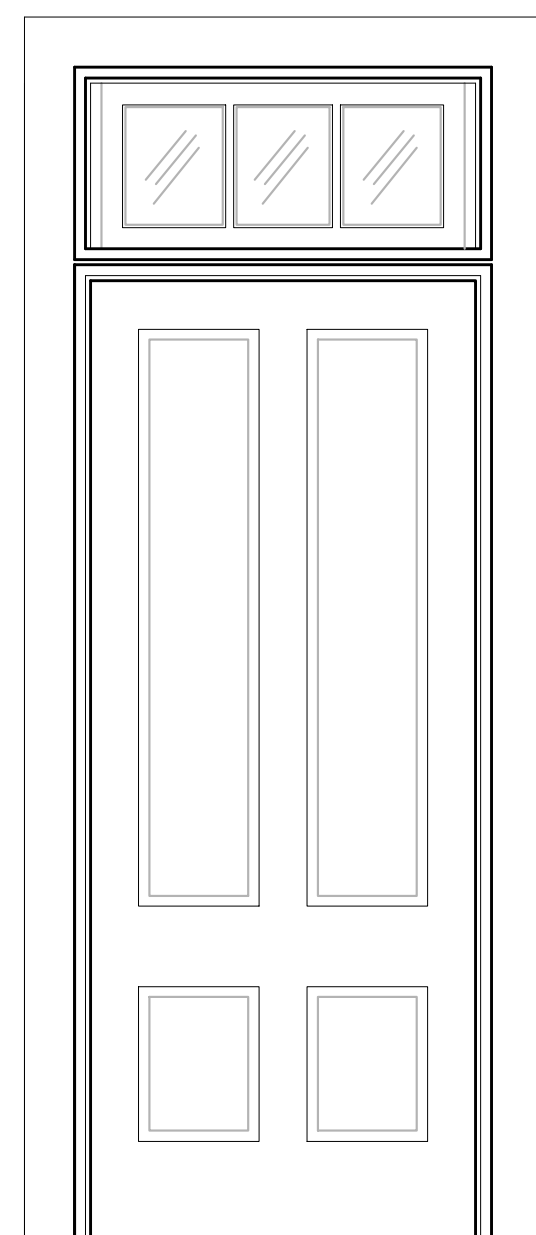
SHEET NO. **A2.1-PE4**

WINDOW NO.	ROOM NAME	(E)/(N)/(R)	TYPE	APPROX. SIZE	MAT.	FINISH	MAT.	FINISH	GLAZING	REPAIR	REMARK
001	004 WORK ROOM	(E)	A	2'-0" x 5'-4"	WD	PT	WD	PT	(E)	LEVEL 1	PREP AND REPAIR STORM WINDOWS, REINSTALL.
002	004 WORK ROOM	(E)	A	2'-0" x 5'-4"	WD	PT	WD	PT	(E)	LEVEL 1	PREP AND REPAIR STORM WINDOWS, REINSTALL.
003	003 OIL ROOM	(E)	A	2'-0" x 5'-4"	WD	PT	WD	PT	(E)	LEVEL 1	PREP AND REPAIR STORM WINDOWS, REINSTALL.
004	003 OIL ROOM	(E)	A	2'-0" x 5'-4"	WD	PT	WD	PT	(E)	LEVEL 1	PREP AND REPAIR STORM WINDOWS, REINSTALL.
005	002 HALLWAY	(E)	A	2'-0" x 5'-4"	WD	PT	WD	PT	(E)	LEVEL 1	PREP AND REPAIR STORM WINDOWS, REINSTALL.
006	002 HALLWAY	(E)	A	2'-0" x 5'-4"	WD	PT	WD	PT	(E)	LEVEL 1	PREP AND REPAIR STORM WINDOWS, REINSTALL.

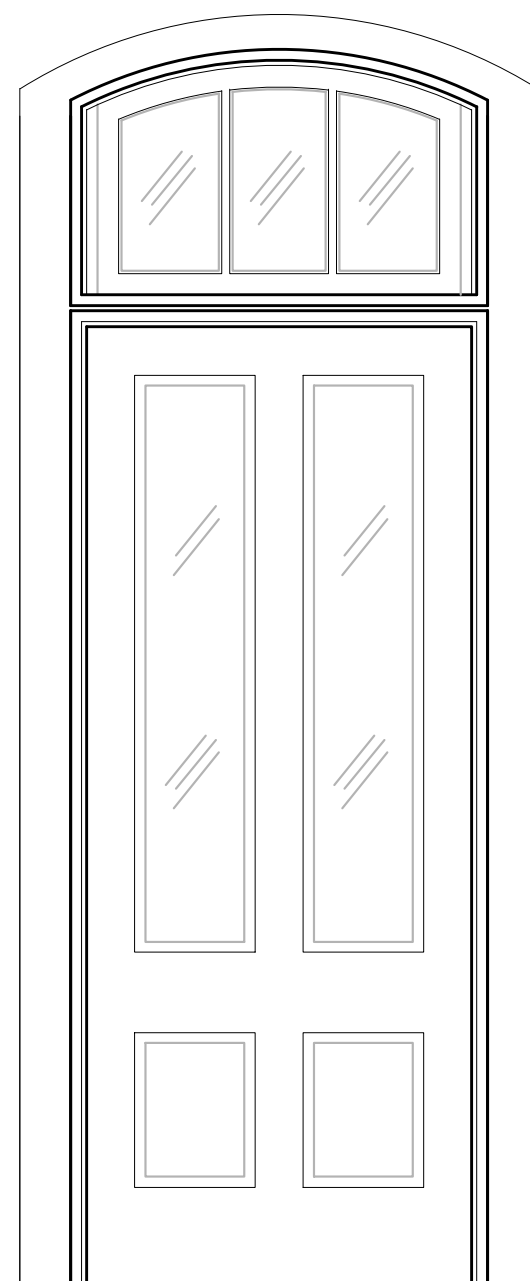
DOOR NO.	ROOM NAME	(E)/(N)/(R)	TYPE	DOOR	MAT.	FINISH	MAT.	FINISH	GLAZING	HARDWARE GROUP	REPAIR	REMARK
				APPROX. SIZE (W X H)								
002B	002 HALLWAY	(E)	B	3'-0" x 7'-6"	WD	PT	WD	PT	(E)	(N) TBD	LEVEL 1	ADD \$F TO GLAZING
003A	003 OIL ROOM	(E)	A	3'-0" x 7'-6"	WD	PT	WD	PT	-	(N) TBD	LEVEL 1	PREP & REPAIR (E) METAL THRESHOLD
004A	004 WORK ROOM	(E)	A	3'-0" x 7'-6"	WD	PT	WD	PT	-	(N) TBD	LEVEL 1	PREP & REPAIR (E) METAL THRESHOLD



WINDOW TYPE A
(INTERIOR VIEW)



DOOR TYPE A



DOOR TYPE B

422 WINDOW AND DOOR TYPES
NTS

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	DOOR/WINDOW CASINGS / CROWN MOLDINGS	CEILING	REMARKS
GROUND FLOOR		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH
001	TOWER (NO WORK)	(E) CONC	(E) PT	(E) BRICK	(E) PT	(E) IRON	(E) PT
002	HALLWAY	(E) TILE	PT	(E) BRICK	PT	(E) WD	PT
003	OIL ROOM	(E) WD	(E) VFT	(E) BRICK	(E) PT	(E) WD	(E) PT
004	WORK ROOM	(E) WD	PT	(N) WD	PT	(E) WD	PT

FINISH LEGEND	
CONC	CONCRETE
CF	CONCRETE FINISH
CPT	CARPET
CT	CERAMIC TILE
PT	PAINT
FL	FLASTER
FLYWD	PLYWOOD
SL	SLATE TILE
SLR	SEALER
VFT	VINYL FLOOR TILE
WD	WOOD

GENERAL FINISH NOTES

- CEILING HEIGHTS TO MATCH EXISTING, UNLESS NOTED OTHERWISE ON DRAWINGS.
- SEE SPECS FOR FURTHER INFORMATION ON PAINT COLOR AND TYPE.

GENERAL WINDOW NOTES

- CONTRACTOR TO ENSURE WEATHERTIGHTNESS.
- WINDOW SIZES INDICATED ARE NOMINAL. FIELD VERIFY ACTUAL SIZE.
- REMOVE OBSOLETE FASTENERS AND OTHER HARDWARE. FILL ALL HOLES.

WINDOW AND FRAME REPAIR LEGEND

SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF REPAIR ITEMS.

GENERAL REPAIRS

- LEVEL 1 - WINDOW ASSEMBLY AND HARDWARE WITH MINOR MATERIAL DEFICIENCIES
- STRIP PAINT AT WINDOW AND FRAME.
 - REMOVE NAILS, FASTENERS, OBSOLETE HARDWARE, ETC.
 - FILL HOLES IN DEFECTS IN WOOD.
 - REPLACE CRACKED AND MISSING WINDOW PUTTY.
 - REPLACE CRACKED OR BROKEN GLAZING.
 - TIGHTEN LOOSE JOINTS AT WINDOW AND FRAME.
 - PREP AND REPAIR.

GENERAL DOOR NOTES

- CONTRACTOR TO ENSURE PROPER WORKING ORDER.
- DOOR SIZES SHOWN ARE NOMINAL. FIELD VERIFY (E) OPENINGS AND NEW OPENINGS WHEN ALIGNING WITH (E) FOR ACTUAL DIMENSIONS.
- CONTRACTOR SHALL PAINT ALL DOORS, FINISH INTERIOR AND EXTERIOR SURFACE AT ALL 6 SIDES, TYP., U.ON.
- CONTRACTOR SHALL SURVEY (E) HARDWARE AND VERIFY WORKING ORDER OF LOCKSETS AND HINGES. SALVAGE ALL UNDAMAGED HARDWARE FROM REMOVED DOORS FOR REUSE.
- REMOVE ALL FASTENERS AND EXTRANEIOUS/UNNECESSARY ACCESSORIES. FILL ALL HOLES IN DOOR ASSEMBLY AS REQUIRED PRIOR TO APPLICATION OF FINISH, TYP.
- MATCH PROFILES & DIMENSIONS OF (E) MOLDINGS.

DOOR REPAIR LEGEND

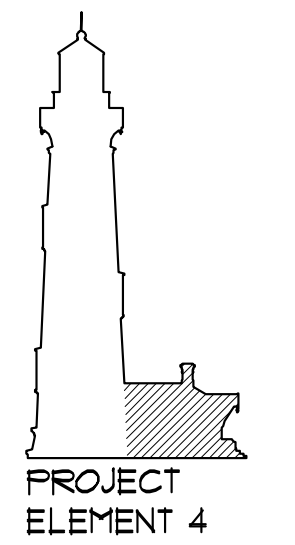
SEE SPECIFICATIONS FOR DETAILED DESCRIPTION OF REPAIR ITEMS.

GENERAL REPAIRS

- LEVEL 1 - DOOR ASSEMBLY AND HARDWARE IN GOOD CONDITION
- REMOVE PAINT FROM DOOR AND FRAME. FILL HOLES & DEFECTS IN WOOD. TIGHTEN LOOSE JOINTS, AND PREPARE SURFACES FOR PAINT.
 - REHABILITATE (E) DOOR HARDWARE, REPLACE ELEMENTS AS REQ'D TO MATCH (E).
 - REINSTALL AND RETURN TO WORKING ORDER.

DOOR AND WINDOW ABBREVIATIONS

SOURCE:	PRIMARY MATERIAL:	FINISH:	GLAZING:
(E) EXISTING	AL ALUMINUM	PT PAINT	CG CLEAR FLOAT GLASS
(R) RELOCATED	BRZ BRONZE	ST STAIN	OBG OBSCURE GLASS
(N) NEW	IRON CAST IRON	V VARNISH	SG SAFETY GLASS
	MTL METAL		SF SAFETY FILM
	STL STEEL		
	WD WOOD		



PROJECT ELEMENT 4



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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
SCHEDULES

DRAWING NO. XXXX.001

SHEET NO. A2.2-PE4

44 OF 54

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ELEVATION GENERAL NOTES

1. NO WORK ON THIS SHEET. FOR REFERENCE ONLY
2. SEE A3.2 FOR WORK AT OIL HOUSE EXTERIOR



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Fig. 9, The Embarcadero - San Francisco, California
4/14/01 (186)

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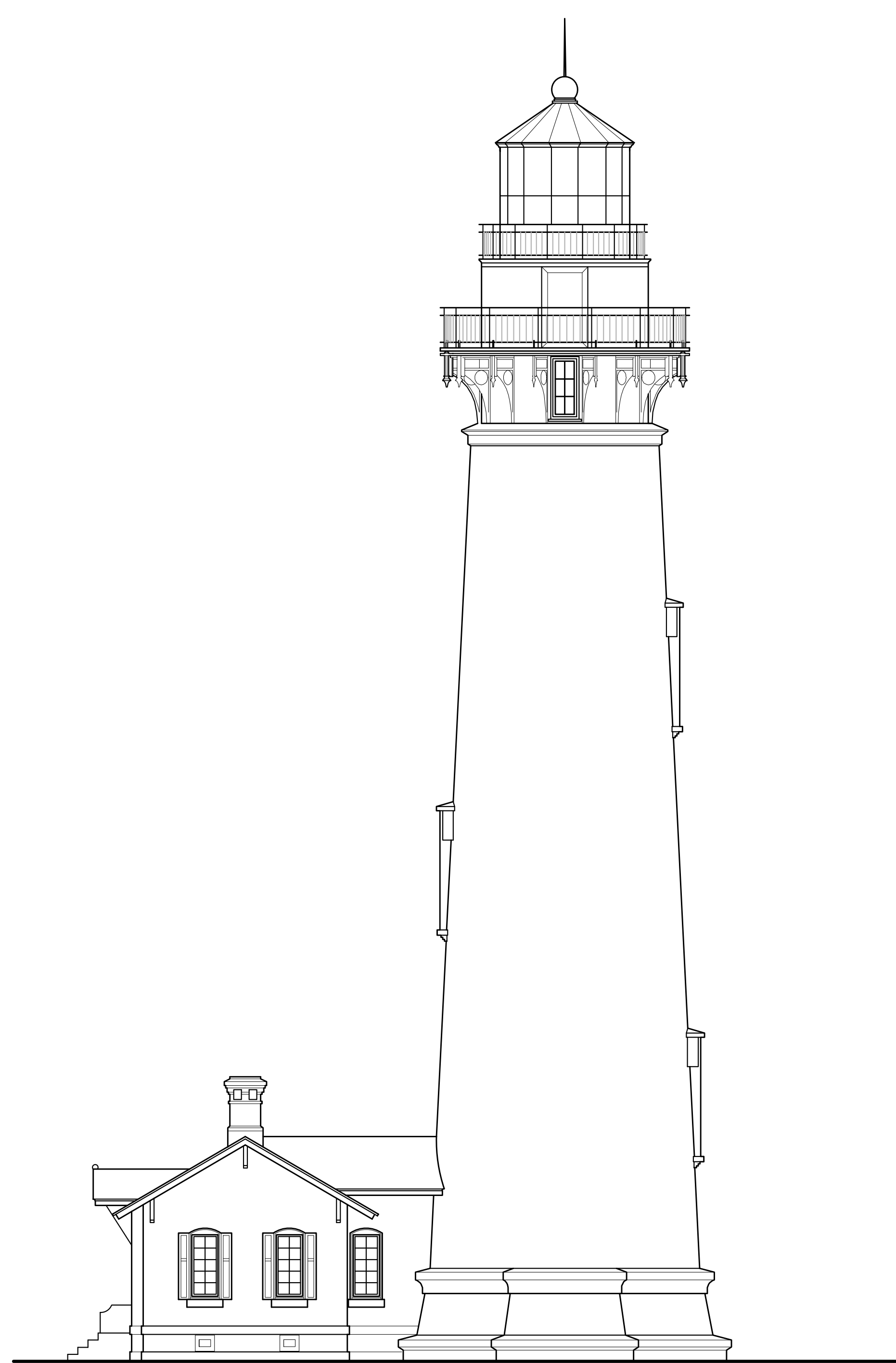
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CONSTRUCTION
DOCUMENTS

PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
ELEVATIONS

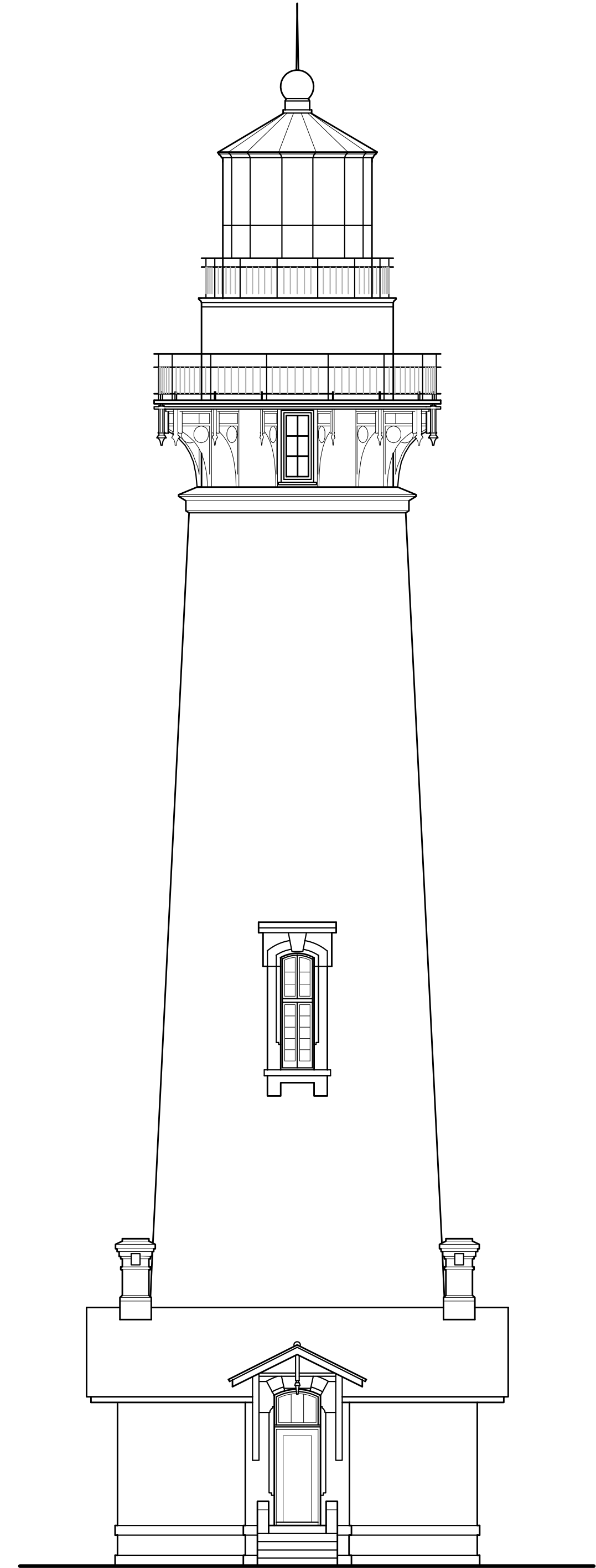
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SHEET NO.
A3.1-PE4

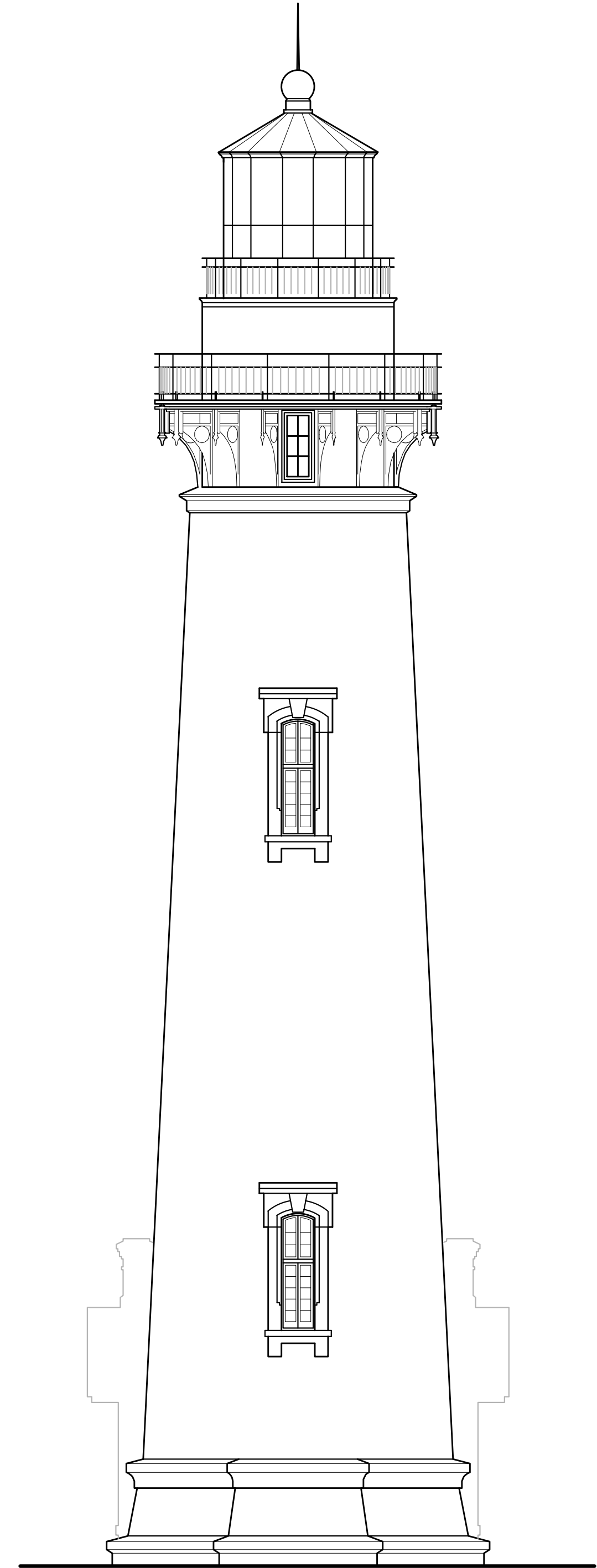
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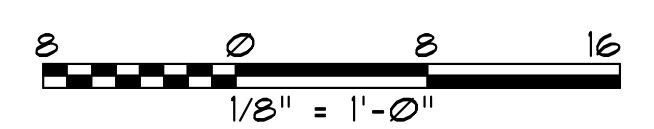
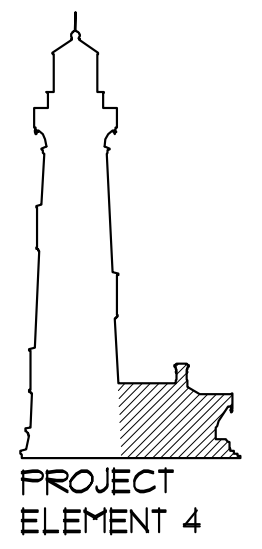
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A3.1 SCALE: 1/8" = 1'-0"
X-ELEVATIONS



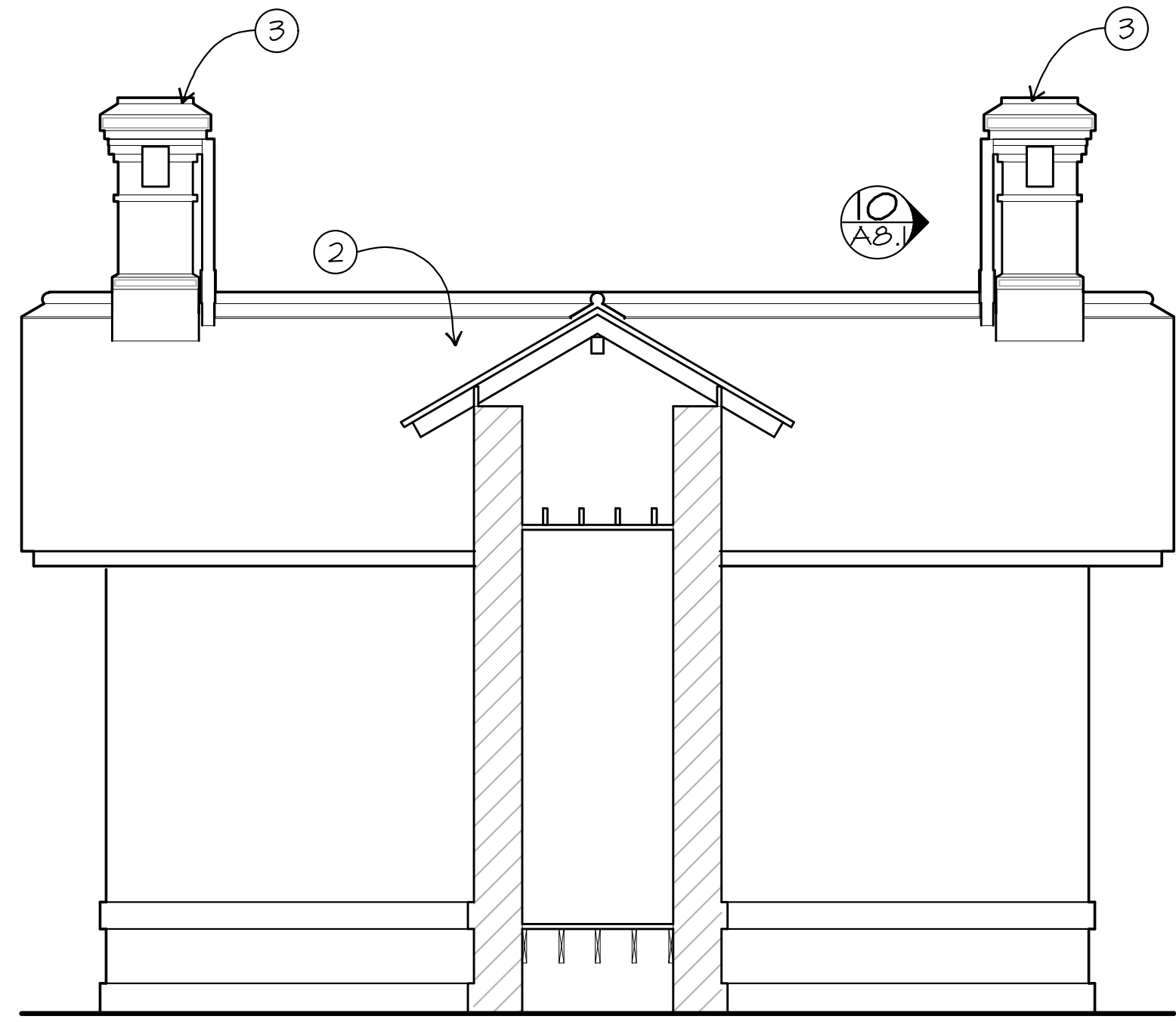
2 EAST ELEVATION
A3.1 SCALE: 1/8" = 1'-0"
X-ELEVATIONS



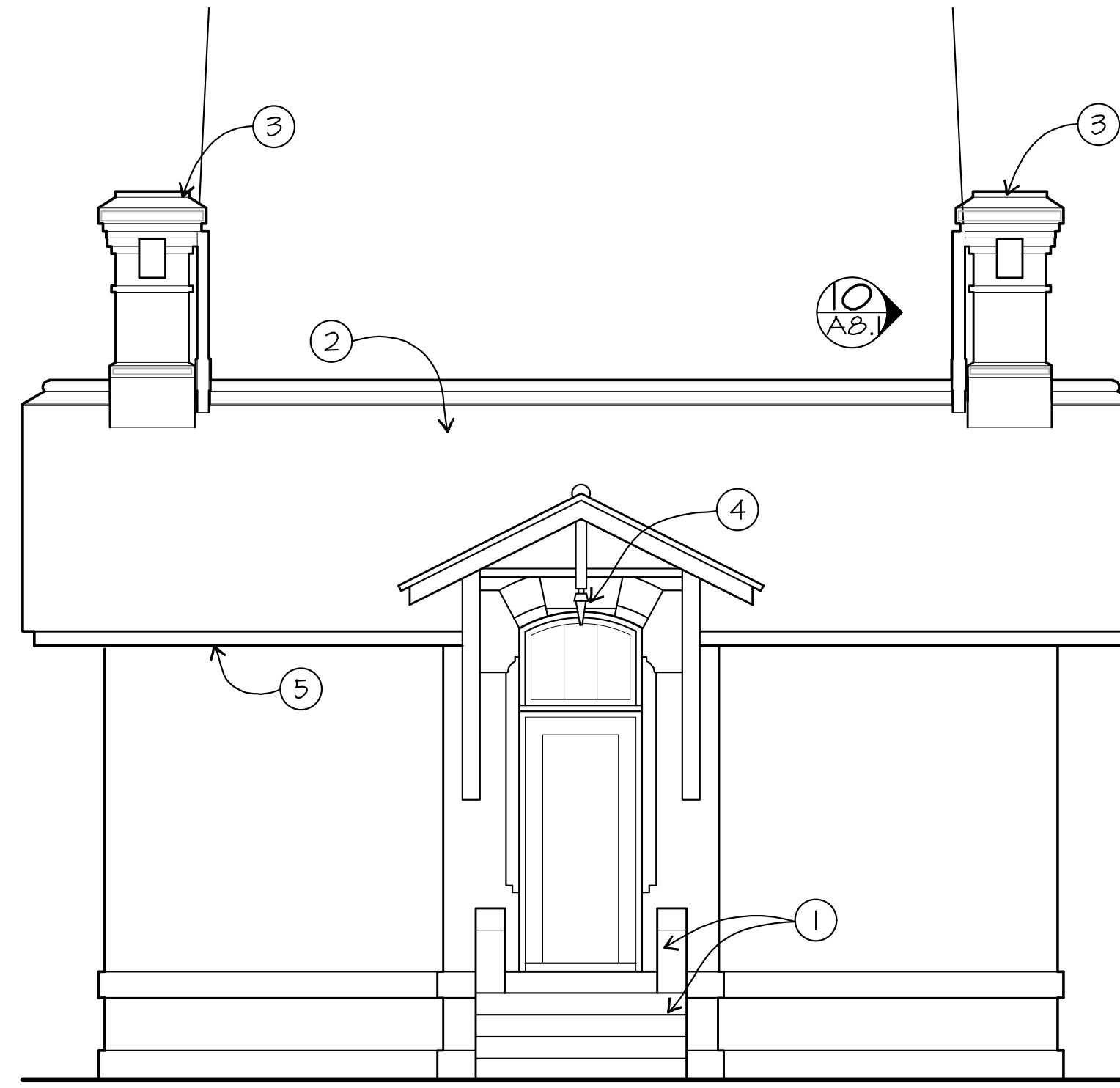
2 WEST ELEVATION
A3.1 SCALE: 1/8" = 1'-0"
X-ELEVATIONS



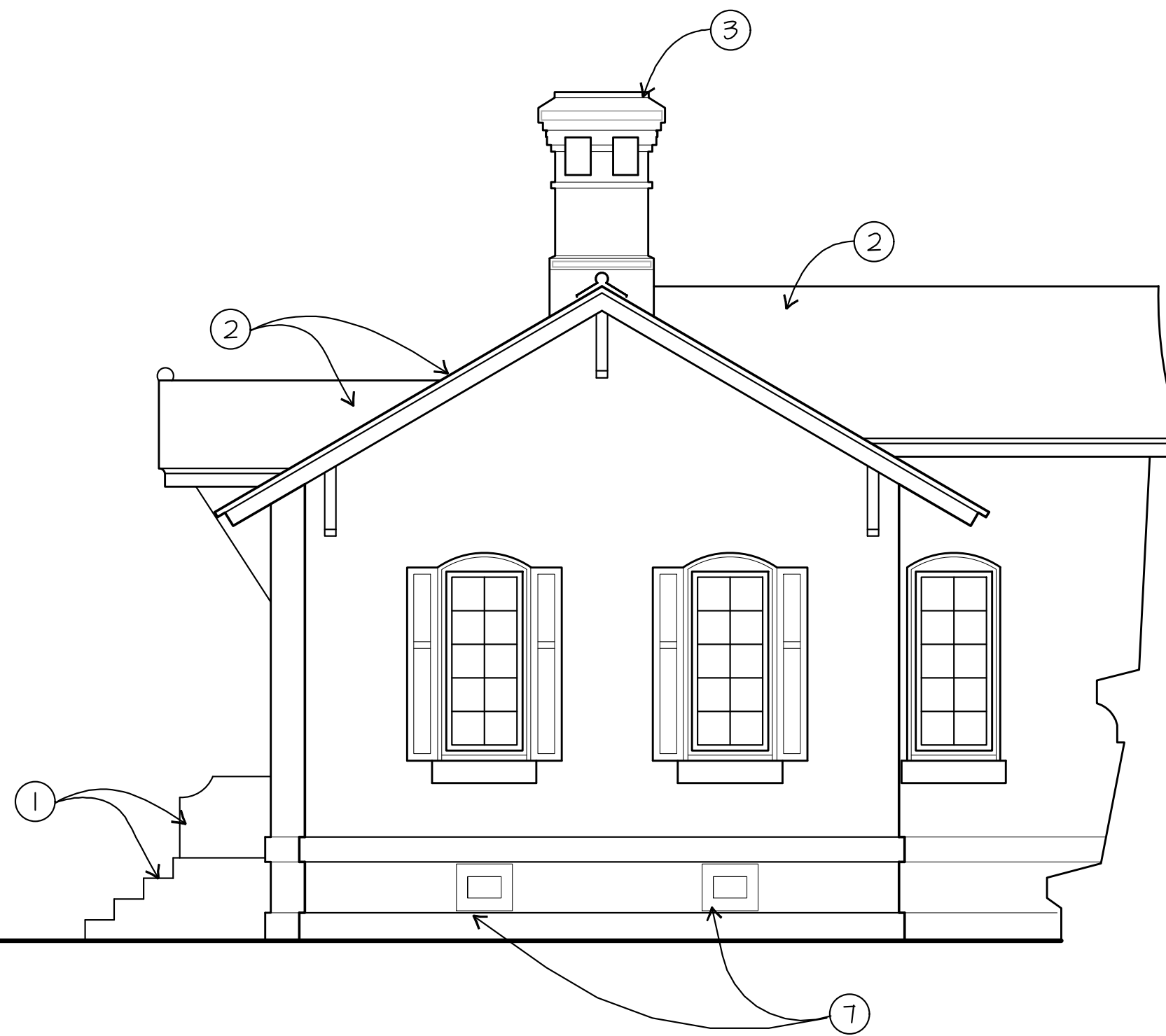
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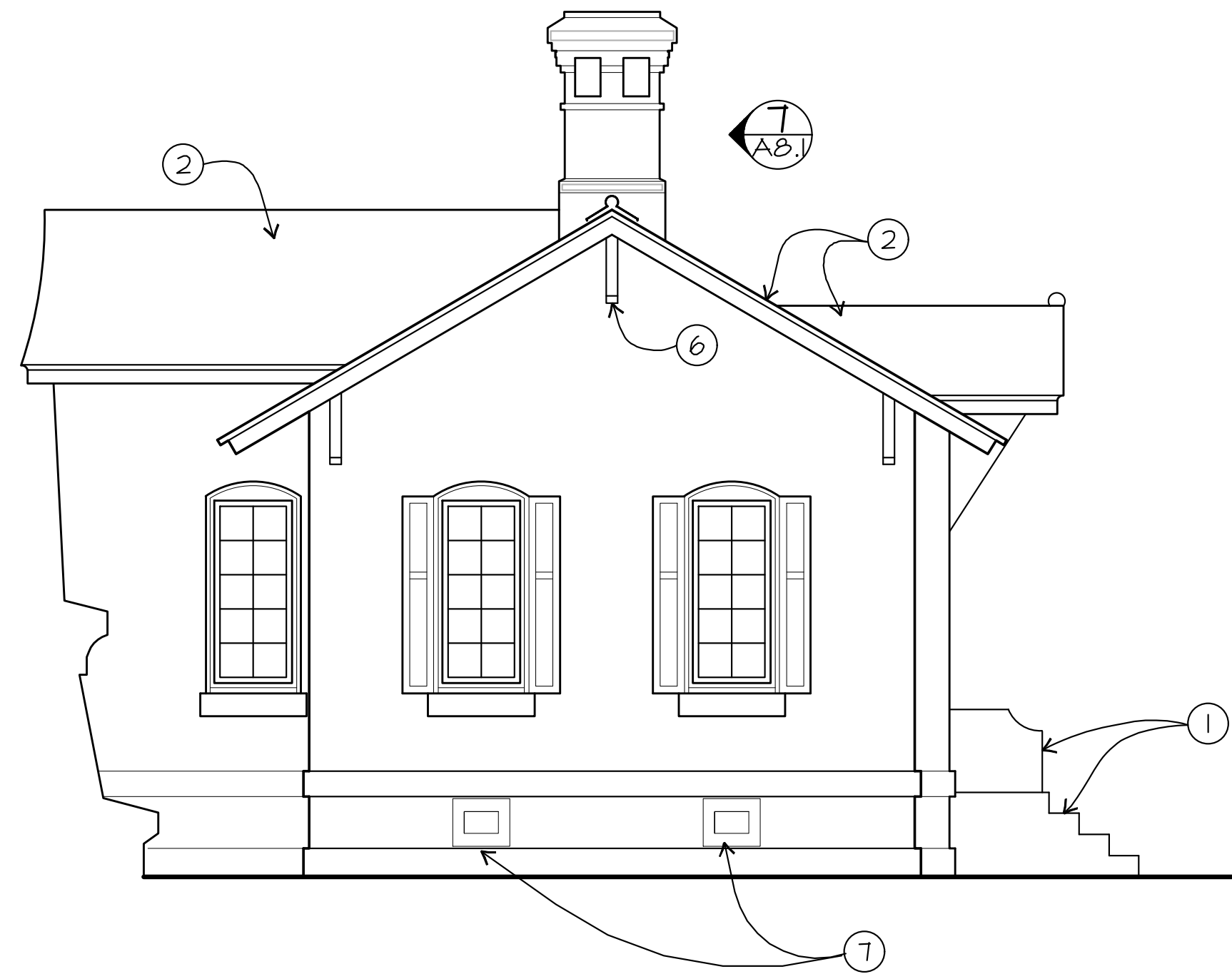
4 WEST ELEVATION
 A3.2 SCALE: 1/4" = 1'-0"
 X-ELEVATIONS



3 EAST ELEVATION
 A3.2 SCALE: 1/4" = 1'-0"
 X-ELEVATIONS



1 NORTH ELEVATION
 A3.2 SCALE: 1/4" = 1'-0"
 X-ELEVATIONS



2 SOUTH ELEVATION
 A3.2 SCALE: 1/4" = 1'-0"
 X-ELEVATIONS

ELEVATION GENERAL NOTES

1. STRIP AND ASSUME 20% REPOINTING AT MASONRY WALLS. PREP AND REPAINT.
2. STRIP, CONSOLIDATE, PREP AND REPAINT WOOD TRIM. ASSUME 20% CONSOLIDATION OF KNEE BRACES.

OIL HOUSE ELEVATIONS KEYNOTES

- ① CLEAN GRANITE STEPS AND CHEEK WALLS.
- ② ROOF:
 1. REMOVE EXISTING ROOFING TO EXISTING SHEATHING.
 2. REPLACE RAFTERS COMPROMISED BY DRYROT.
 3. PROVIDE AND INSTALL CONCEALED STAINLESS STEEL WALL ANCHORS AND BLOCKING BETWEEN RAFTERS AND ABOVE MASONRY WALLS, \$SD.
 4. PROVIDE AND INSTALL NEW PLYWOOD SHEATHING AND VENTILATION MAT.
 5. PROVIDE AND INSTALL NEW WOOD SHINGLES.
 6. PROVIDE AND INSTALL NEW COPPER FLASHING AND EDGE STRIPS, SEE A8.1.
- ③ REMOVE PAINT AND REPOINT MASONRY AT CHIMNEYS.
- ④ PROVIDE (N) LIGHT FIXTURE.
- ⑤ REPLACE MISSING BARGE BOARD.
- ⑥ REPAIR AND REINSTALL BROKEN BRACKET.
- ⑦ PROVIDE AND INSTALL (N) VENT SCREENS.



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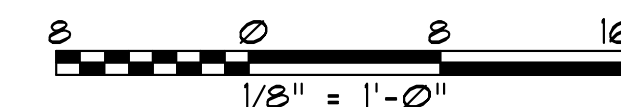
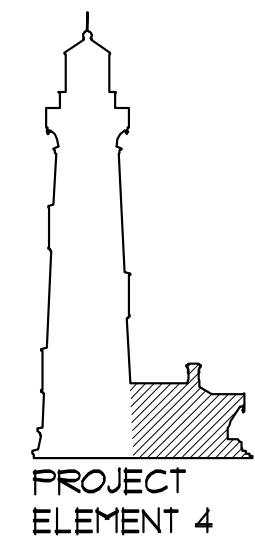
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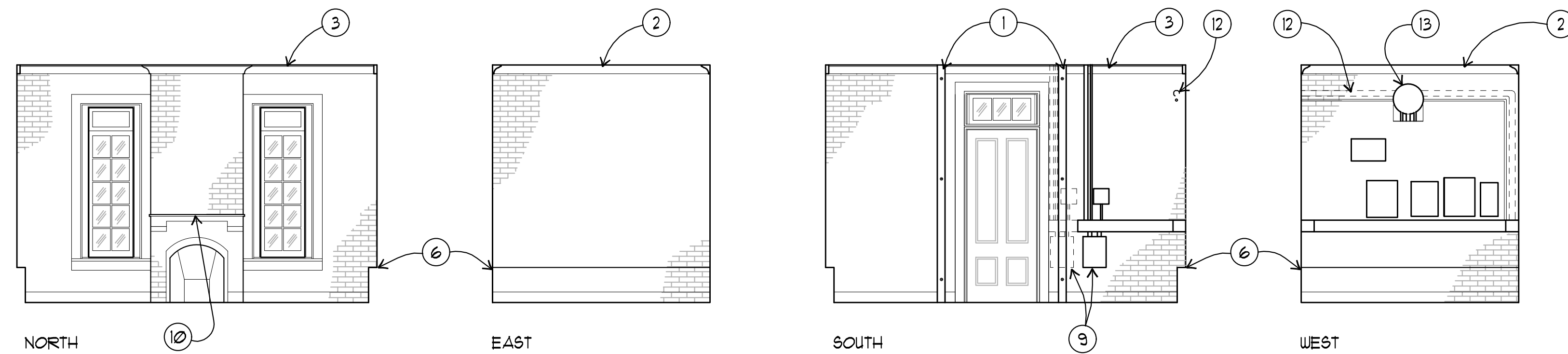
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #4
 REHABILITATION OF THE OIL HOUSE
OIL HOUSE ELEVATIONS



DRAWING NO. XXXX001
 SHEET NO. A3.2-PE4
 46 OF 54

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NOTE:
ALL EQUIPMENT AND FINISHES IN OIL ROOM TO BE PROTECTED AND REMAIN IN PLACE DURING CONSTRUCTION. WALL-MOUNTED EQUIPMENT ONLY SHOWN ABOVE WHERE WORK OCCURS.

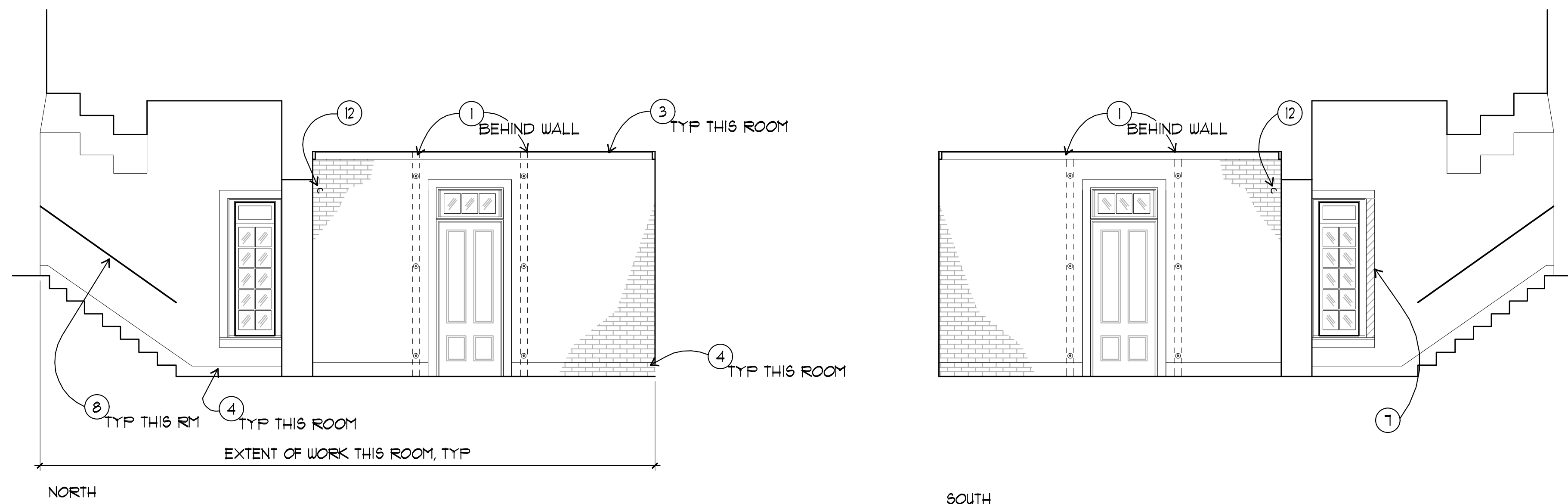
1 OIL ROOM INTERIOR ELEVATIONS

A5.1 SCALE: 1/4" = 1'-0"
X-INT ELEV8.DWG



2 WORK ROOM ELEVATIONS

A5.1 SCALE: 1/4" = 1'-0"
X-INT ELEV8.DWG



2 HALLWAY ELEVATIONS

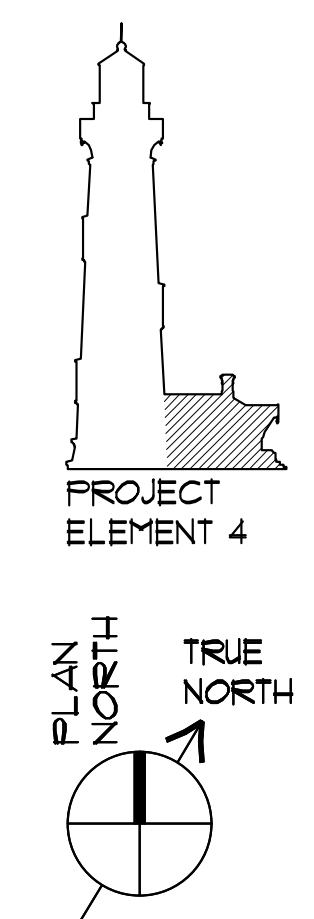
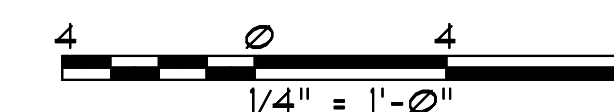
A5.1 SCALE: 1/4" = 1'-0"
X-INT ELEV8.DWG

INTERIOR ELEVATIONS GENERAL NOTES

1. REMOVE EXISTING PAINT AT WALLS OF HALLWAY AND WORK ROOM. (ASSUME HAZARDOUS MATERIAL DISPOSAL.
2. REPOINT LIMITED +/-20% OF MASONRY JOINTS AT WALLS OF HALLWAY AND WORK ROOM.
3. REPAINT MASONRY SURFACES IN HALLWAY AND WORK ROOM.
4. AT CEILINGS OF HALLWAY AND WORK ROOM, SCRAPE LOOSE PAINT FROM TONGUE-AND-GROOVE BEAD BOARD SURFACES, PREP AND REPAINT.
5. FOR ELECTRICAL AND COMMUNICATION EQUIPMENT IN OIL ROOM, COORDINATE PROTECTION AND IF NECESSARY, CONTINUED USE BY USCG DURING CONSTRUCTION.

INTERIOR ELEVATIONS KEYNOTES

1. INSTALL VERTICAL STEEL TUBES ON THE ROOM-SIDE OF THE HALLWAY WALLS, CONNECT TO WALL AND FRAMING ABOVE CEILING. INSTALL STAINLESS STEEL FLOOR-TO-WALL SEISMIC ANCHORS BELOW FLOOR LEVEL, S&D.
2. (E) BLOCK WOOD TRIM TO REMAIN.
3. (E) CROWN MOLDING TO REMAIN.
4. PAINTED BASE TO BE REPAINTED TO MATCH (E).
5. (N) WOOD BASE
6. (E) BRICK LEDGE TO REMAIN
7. REPLACE ROTTED WOOD TRIM.
8. PREP AND REPAINT (E) METAL HANDRAIL.
9. SHORTEN (E) GUTTER AND RELOCATE EQUIPMENT TO COORDINATE WITH (N) STEEL TUBE.
10. CLEAN MARBLE MANTLEPIECE.
11. DEMO AND REMOVE ELECTRICAL BOX.
12. DEMO AND REMOVE ELEC CONDUIT CONNECTED TO BOX IN WORK ROOM. OTHER CONDUITS TO REMAIN.
13. (E) FIRE SUPPRESSION SYSTEM TO REMAIN.
14. (E) CASEWORK AND TACK BOARD TO REMAIN.



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Fig 9, The Embarcadero - San Francisco, California
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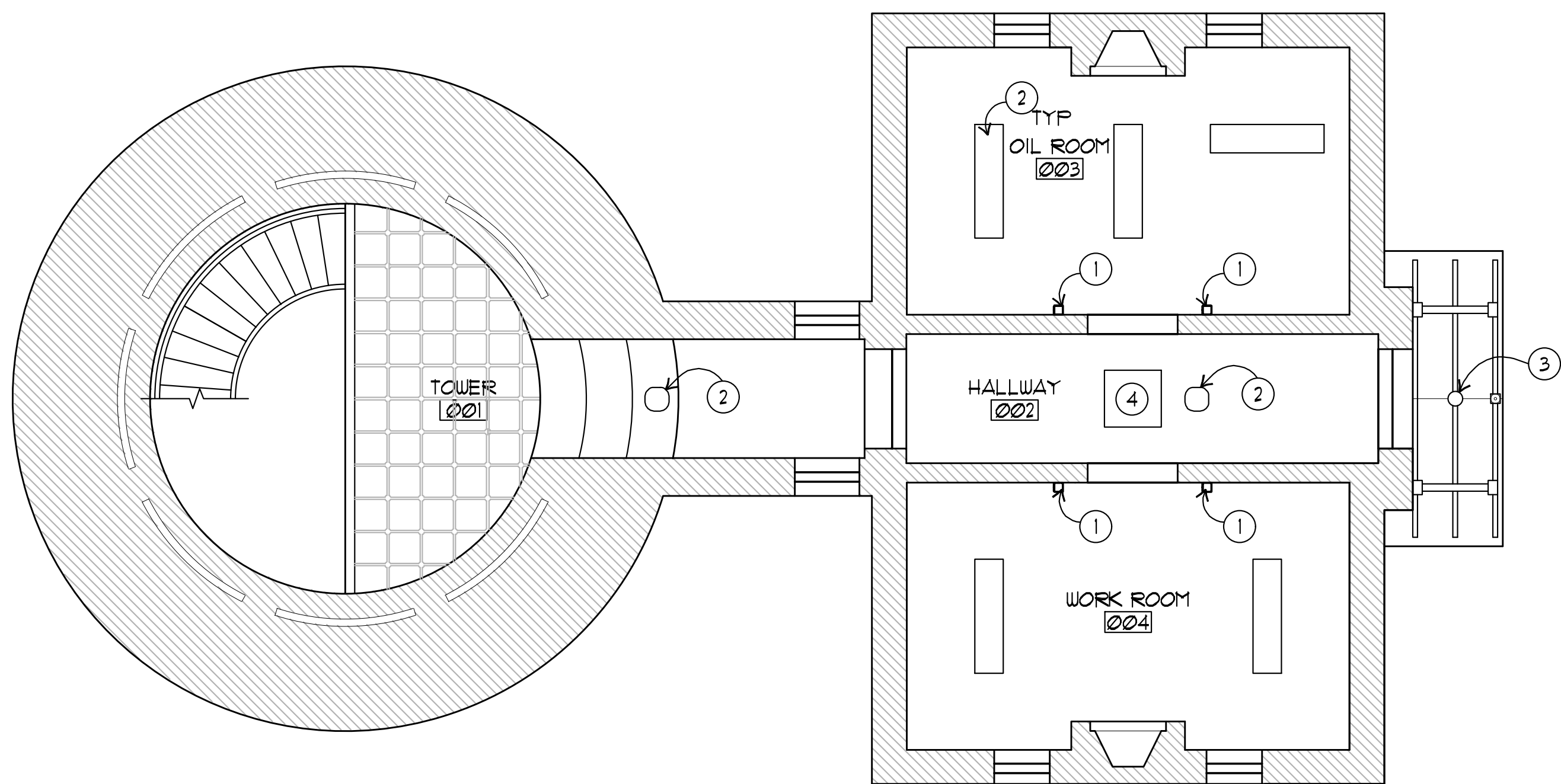
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
INTERIOR ELEVATIONS

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SHEET NO.
A5.1-PE4

47 OF 54

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GROUND FLOOR REFLECTED CEILING PLAN
 SCALE: 1/4" = 1'-0"
 X-PLAN# (GROUND.DWG)

REFLECTED CEILING PLAN KEYNOTES

- ① INSTALL VERTICAL STEEL TUBES ON THE ROOM-SIDE OF THE HALLWAY WALLS, CONNECT TO WALL AND FRAMING ABOVE CEILING. INSTALL STAINLESS STEEL FLOOR-TO-WALL SEISMIC ANCHORS BELOW FLOOR LEVEL.
- ② (E) LIGHT FIXTURE TO REMAIN
- ③ PROVIDE (N) LIGHT FIXTURE AT ENTRANCE
- ④ (E) ATTIC HATCH TO REMAIN



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Fig. 9, The Embarcadero - San Francisco, California
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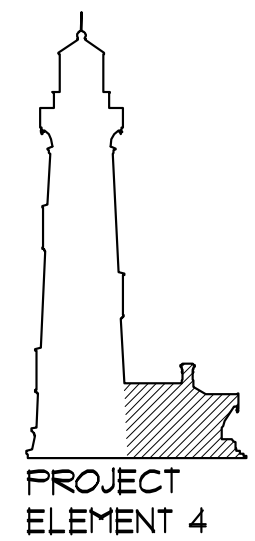
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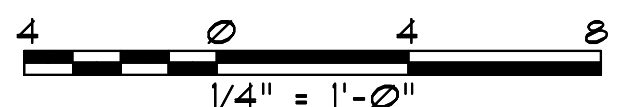
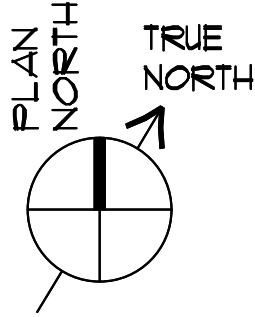
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
REFLECTED CEILING PLAN



PROJECT ELEMENT 4



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48 OF 54



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Fig 9, The Embarcadero - San Francisco, California
4/14/11/16

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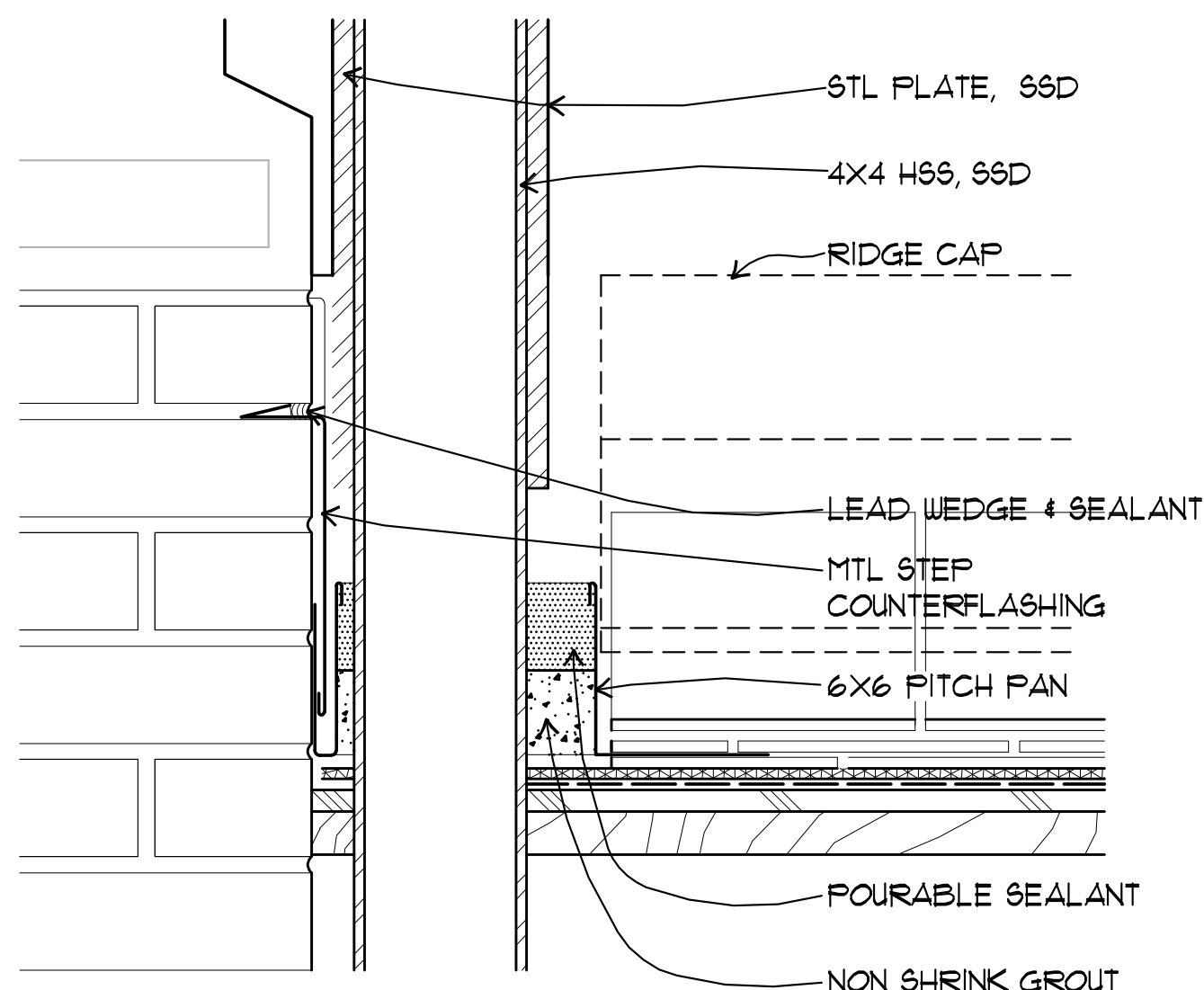
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
ROOF DETAILS

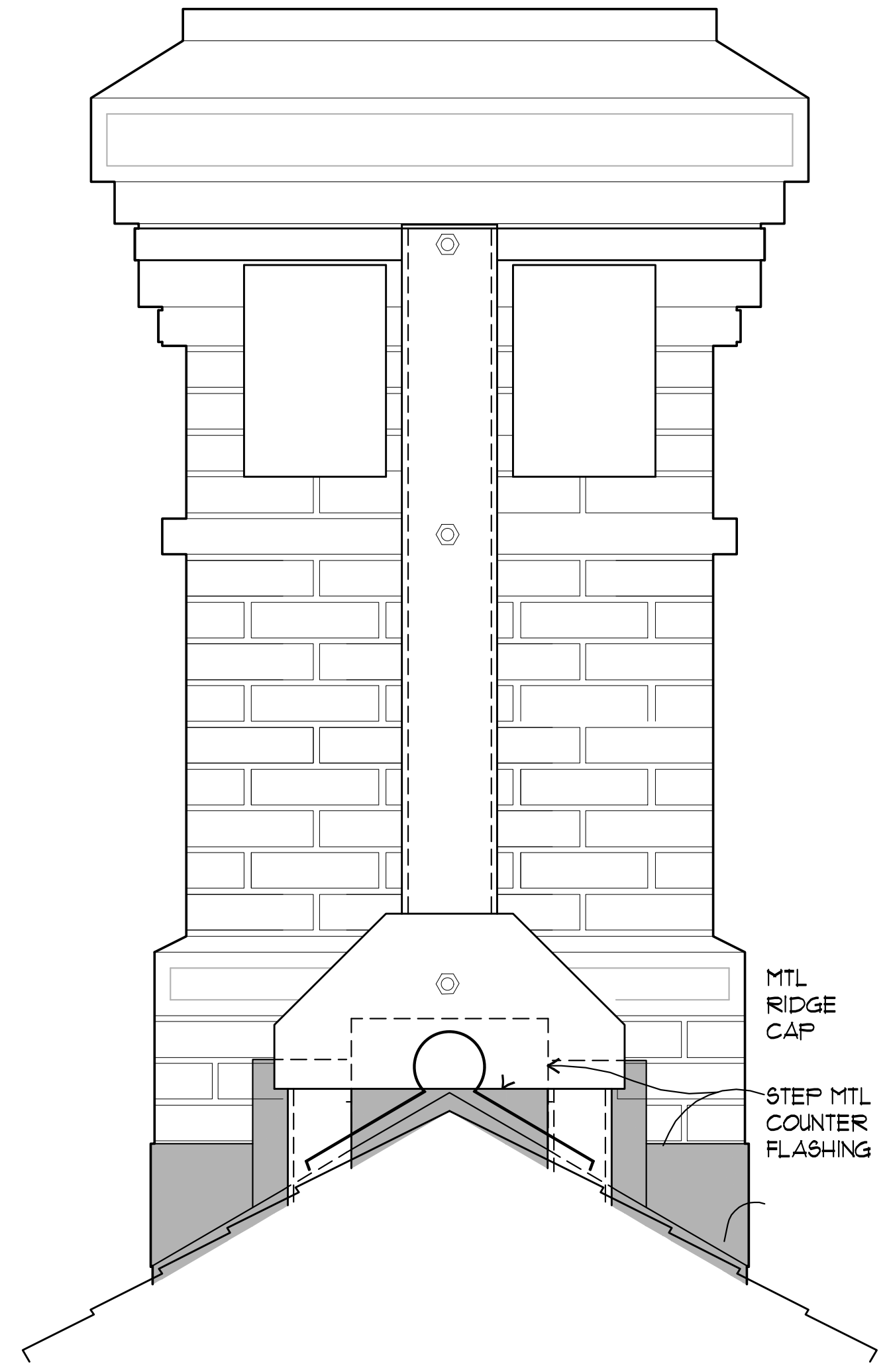
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SHEET NO.
A8.1-PE4

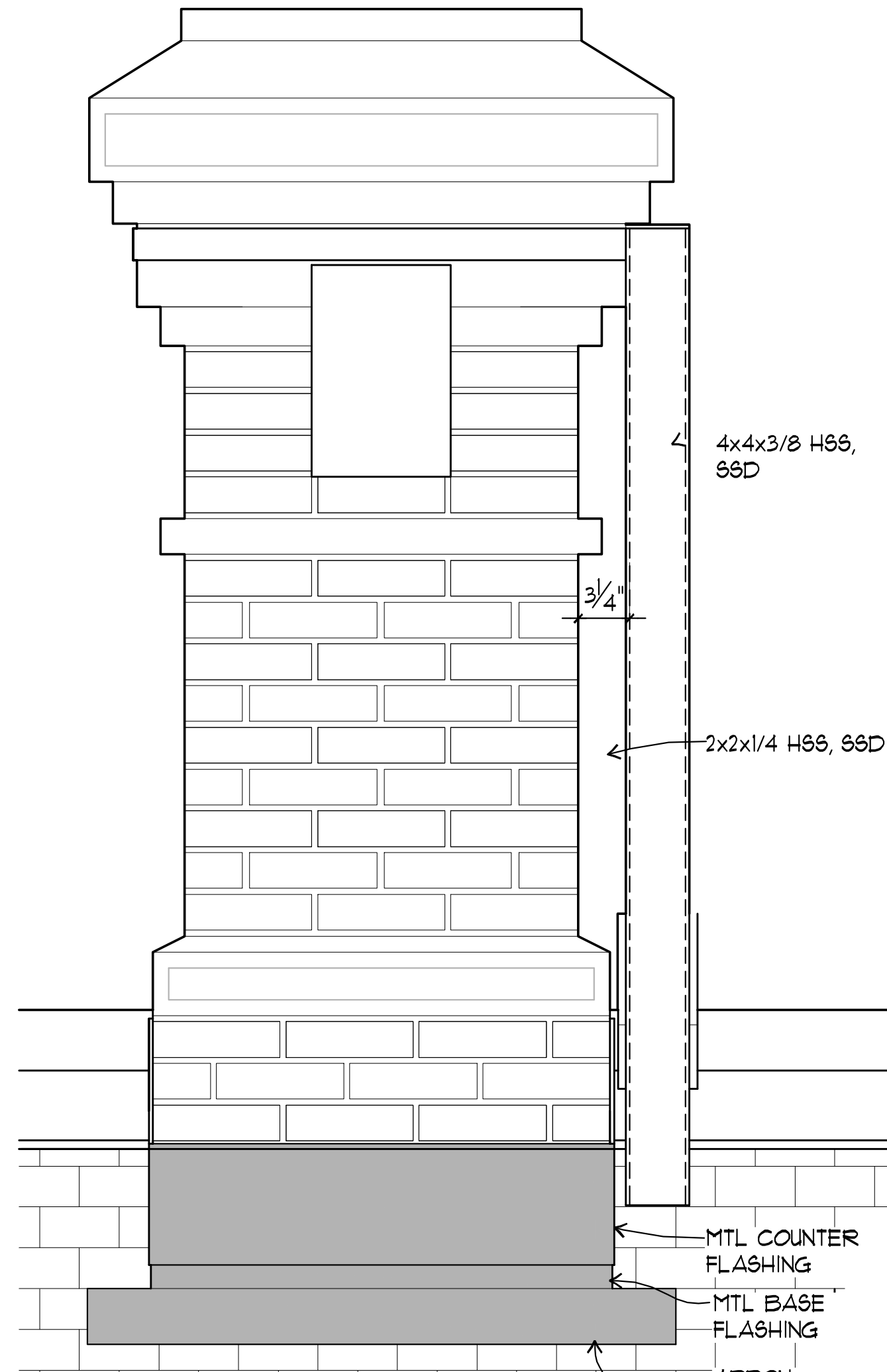
49 OF 54



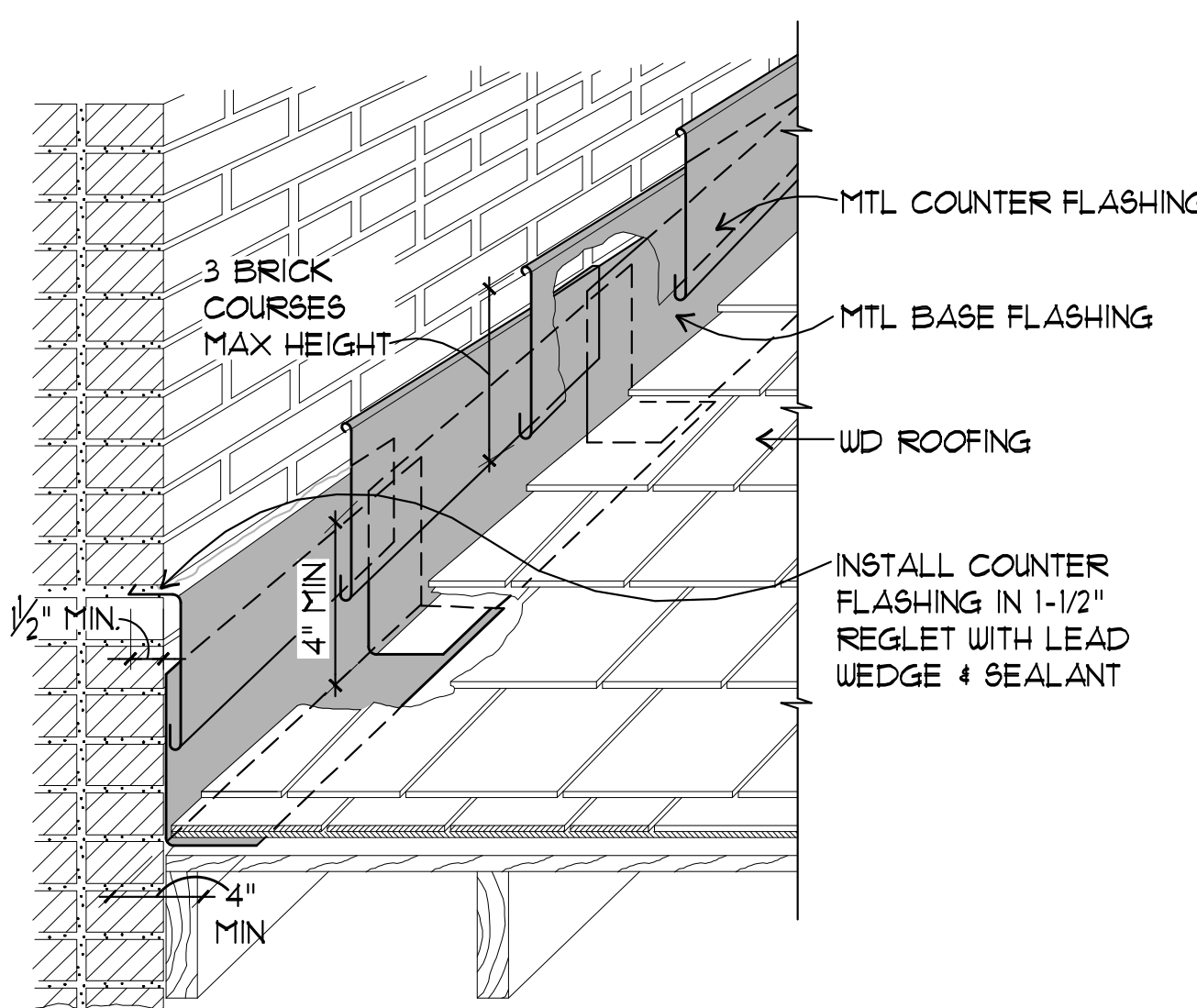
12 PITCH POCKET DETAIL
A8.1 SCALE: 3" = 1'-0"
x-details-roof.dwg



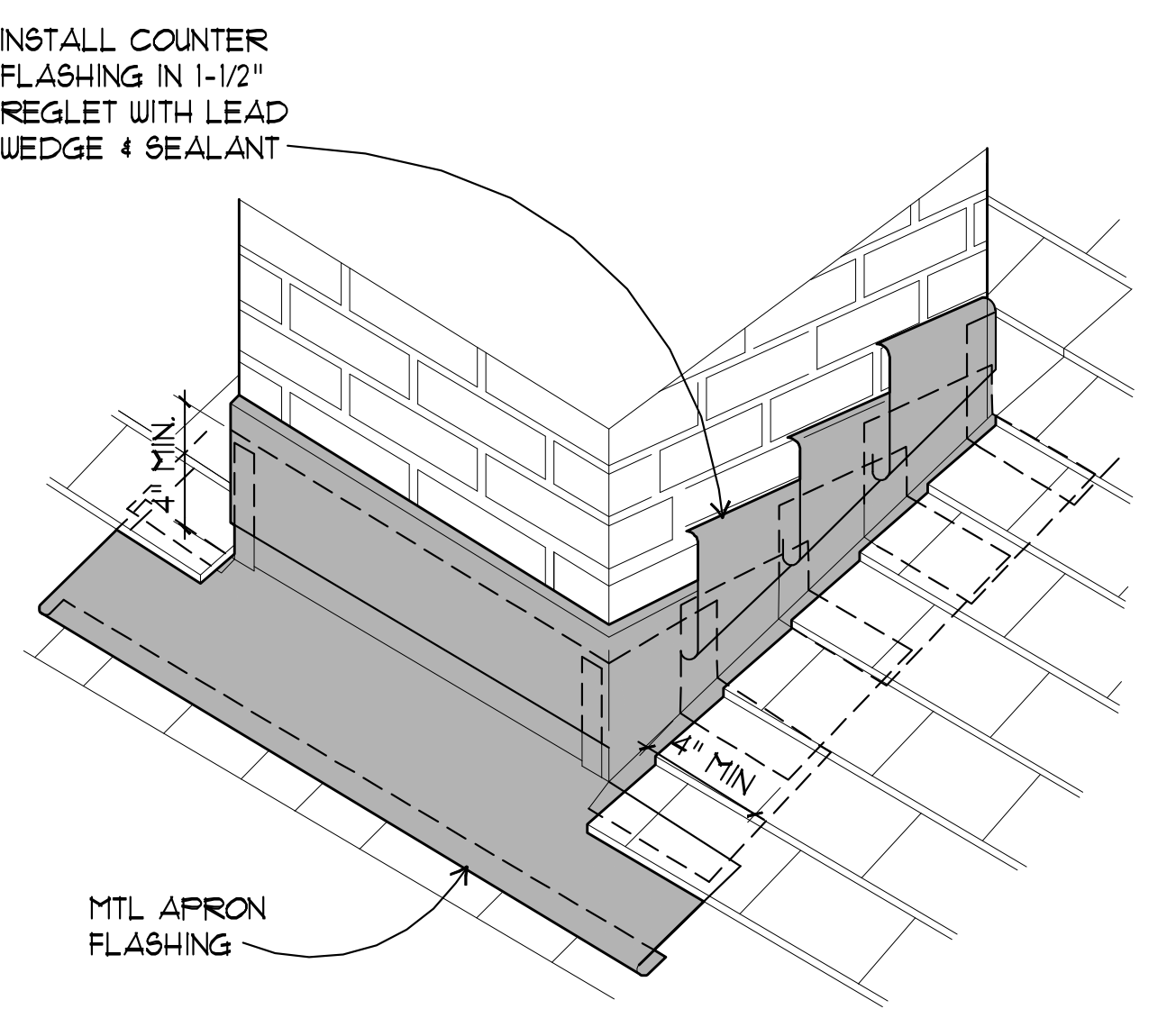
10 CHIMNEY STRUCTURAL REINFORCEMENT
A8.1 SCALE: 1-1/2" = 1'-0"
x-details-roof.dwg



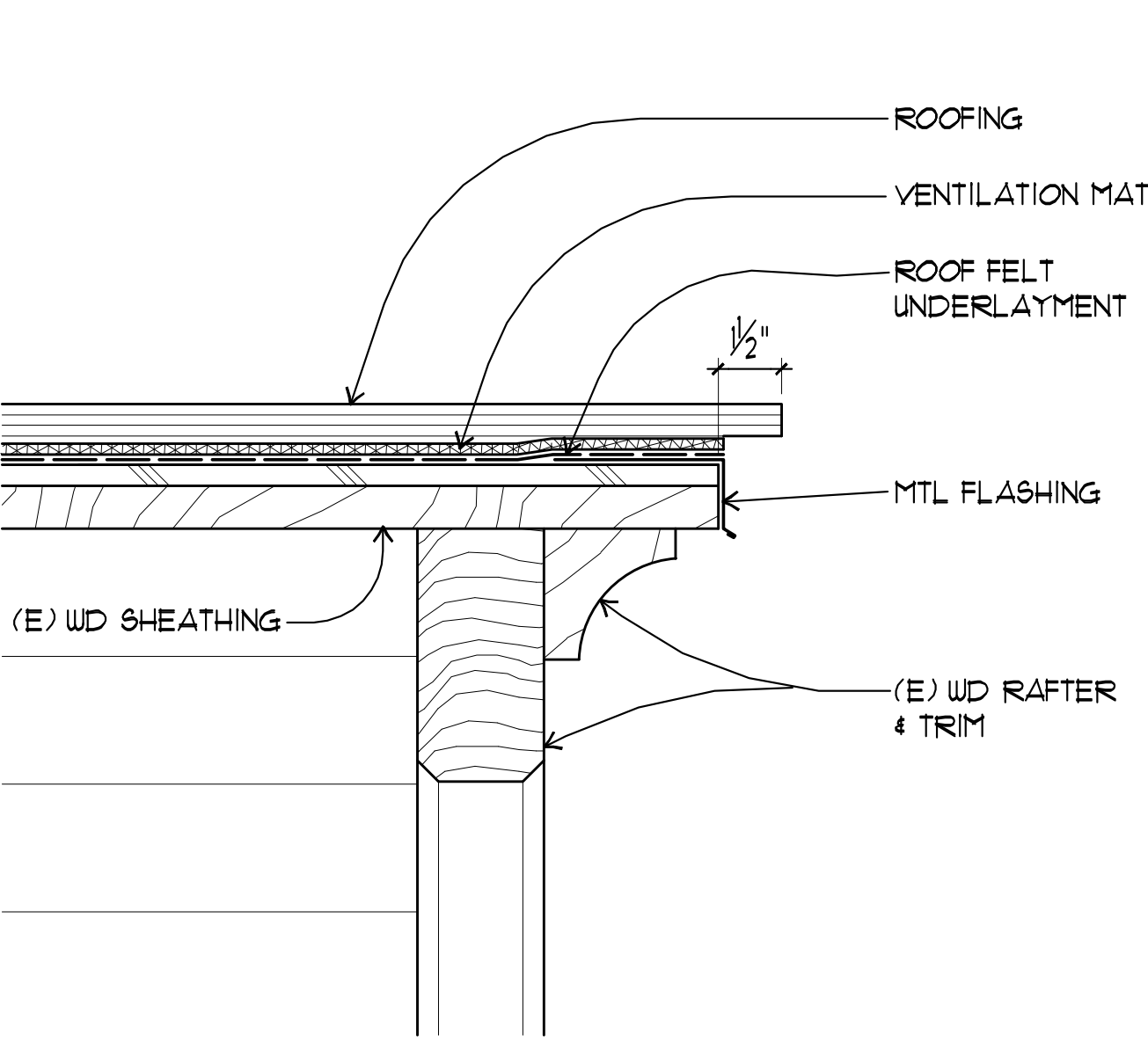
7 CHIMNEY STRUCTURAL REINFORCEMENT
A8.1 SCALE: 1-1/2" = 1'-0"
x-details-roof.dwg



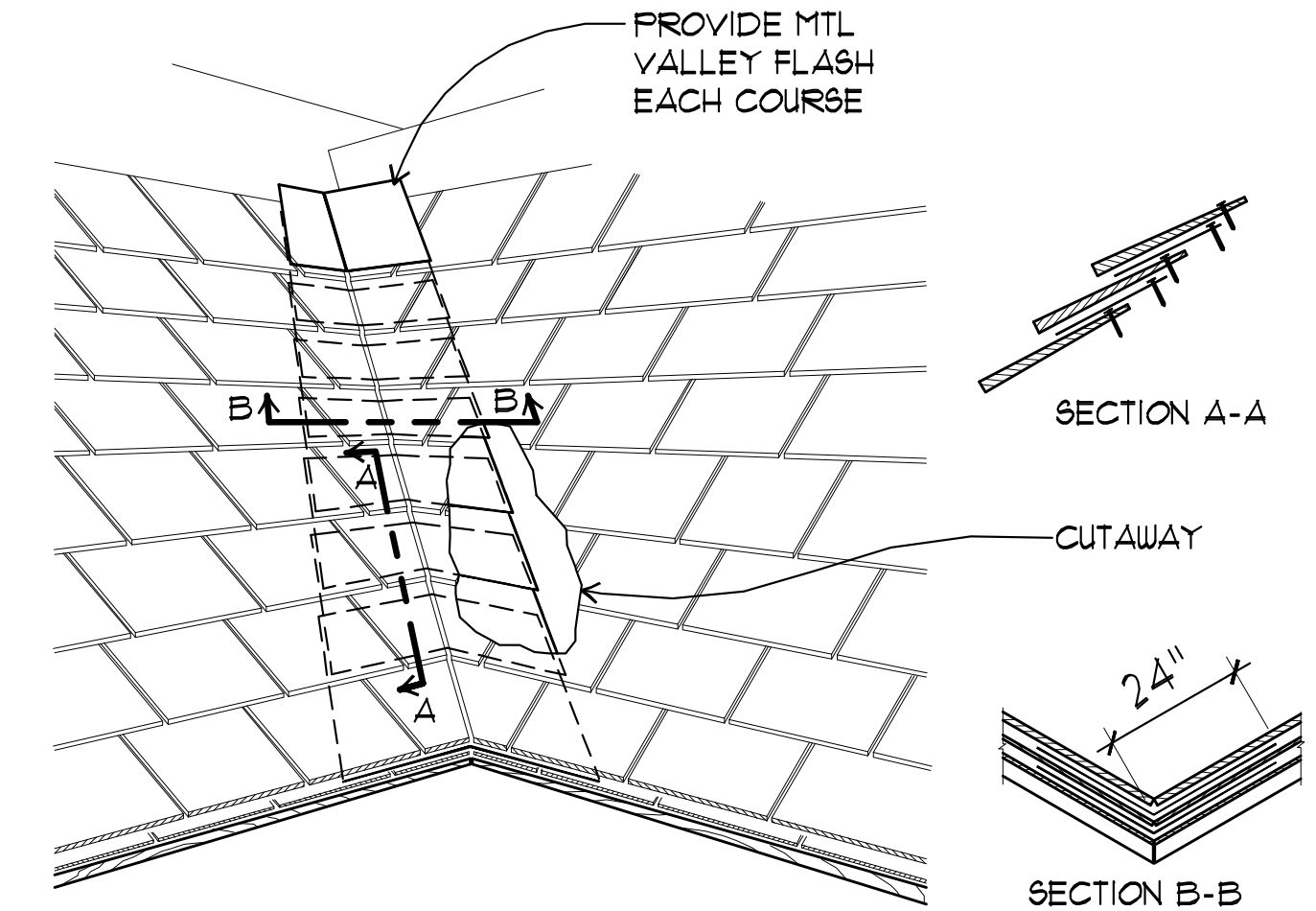
6 MTL FLASHING AT SLOPED ROOF
A8.1 NT5
x-details-roof.dwg



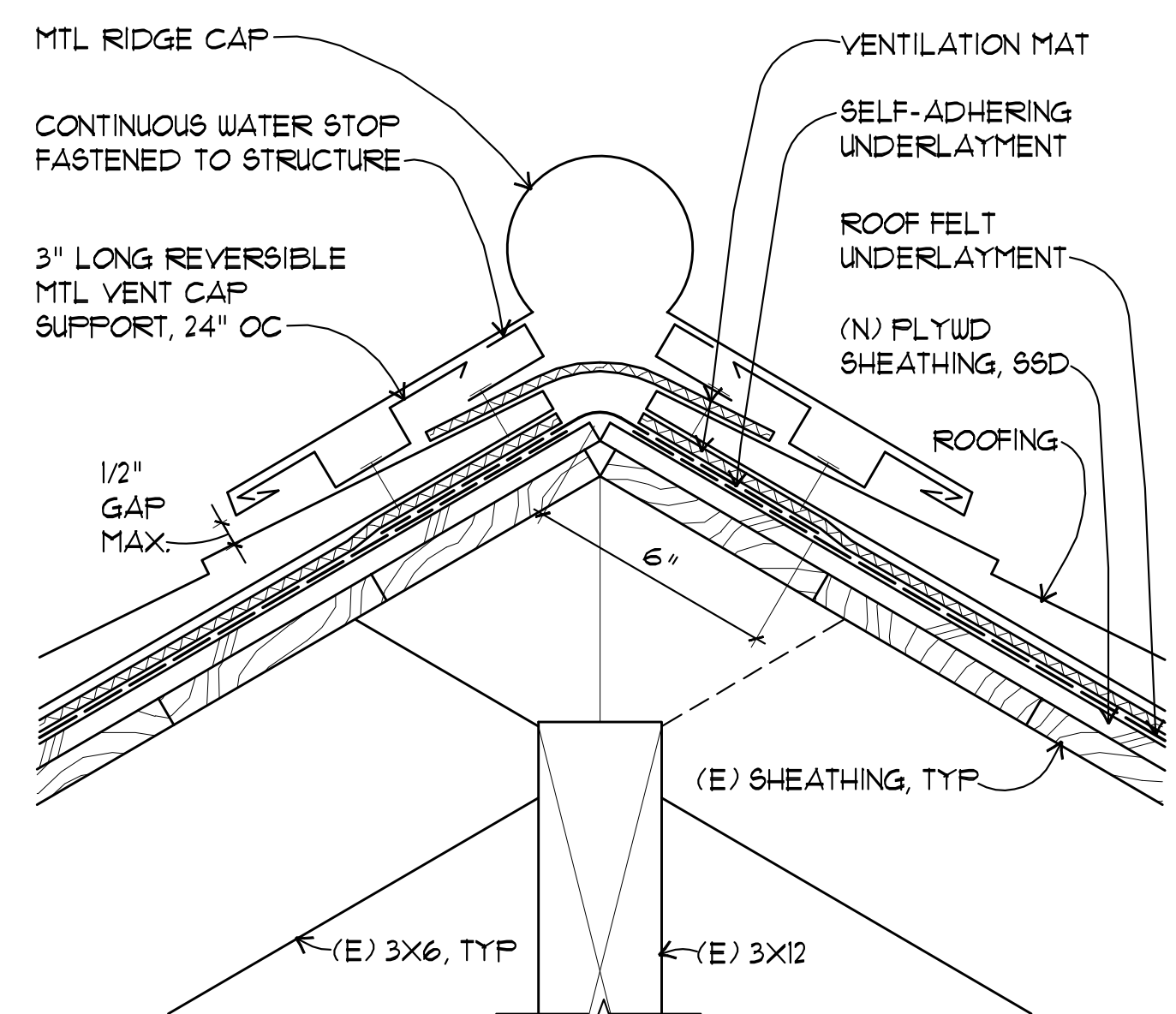
5 TYP APRON FLASHING AT CHIMNEY
A8.1 NT5
x-details-roof.dwg



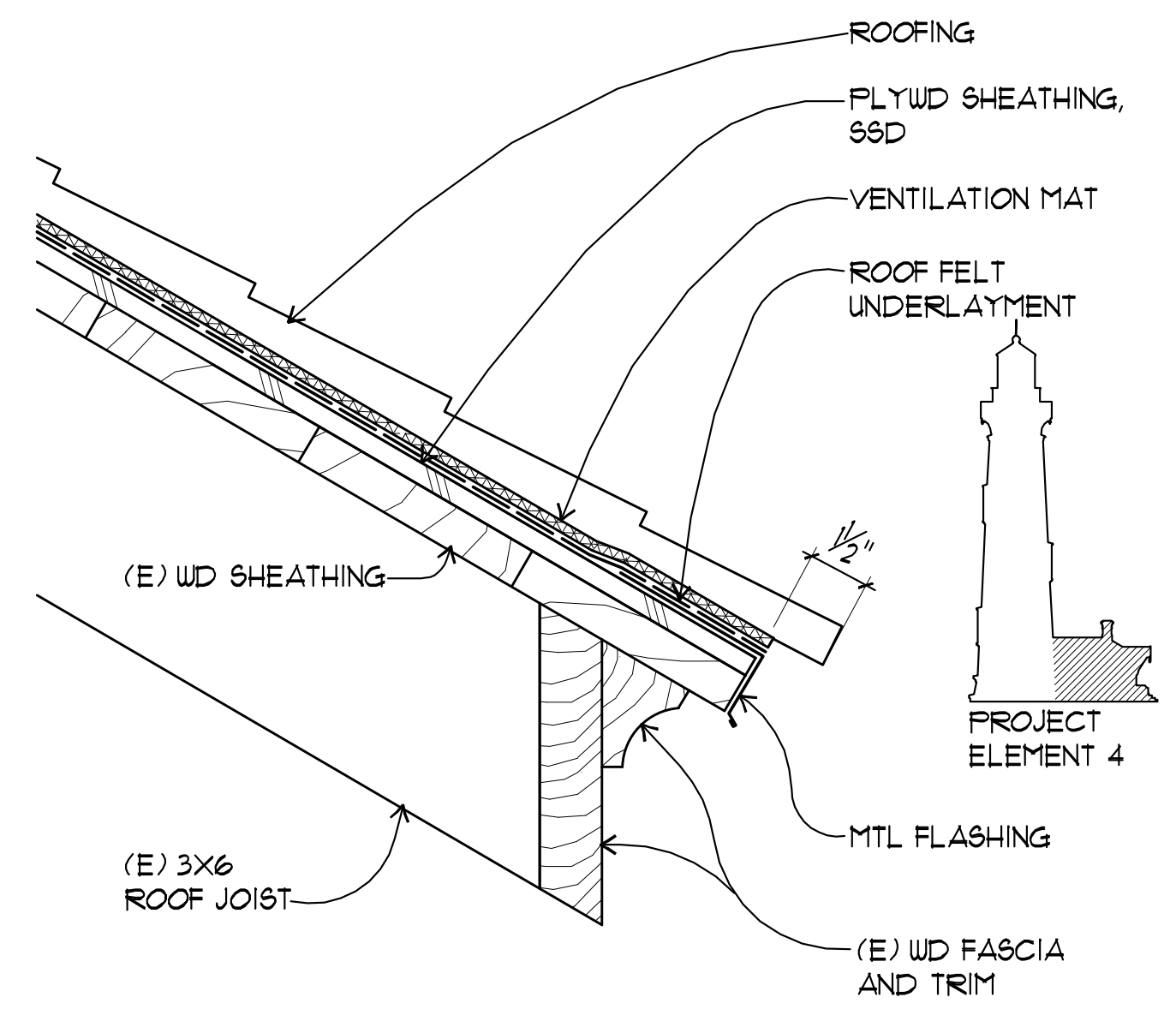
4 TYPICAL RAKE DETAIL
A8.1 SCALE: 3" = 1'-0"
x-details-roof.dwg



3 CONCEALED VALLEY FLASHING
A8.1 NT5
x-details-roof.dwg



2 TYPICAL RIDGE DETAIL
A8.1 SCALE: 3" = 1'-0"
x-details-roof.dwg

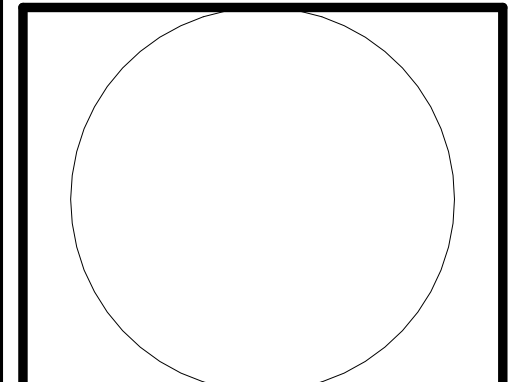


1 TYPICAL EAVE DETAIL
A8.1 SCALE: 3" = 1'-0"
x-details-roof.dwg

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DRAWN: MSA
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DATE: 12-18-2014

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100% DRAFT CD	1/30/2015

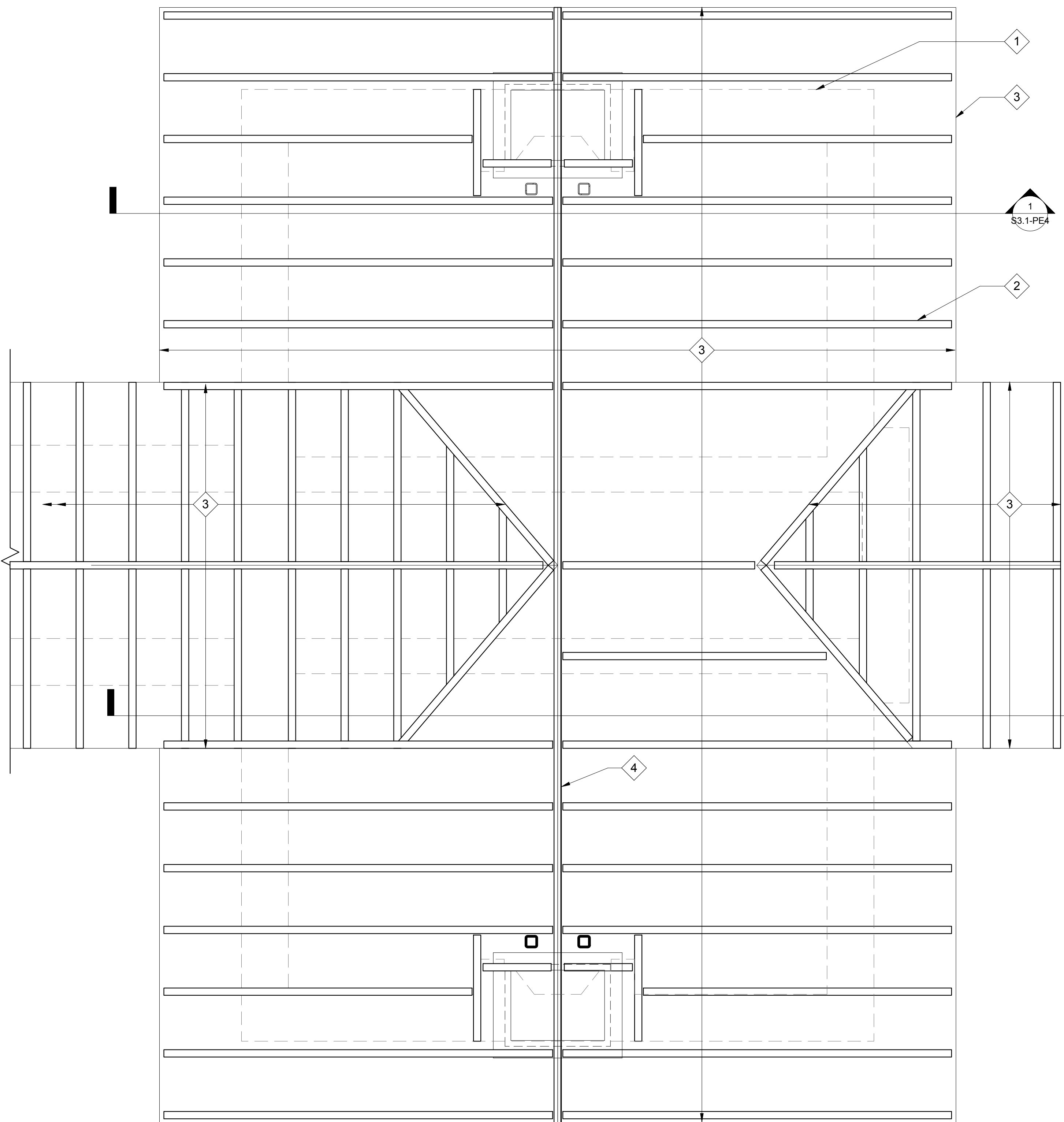
PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
OIL HOUSE PLAN AT GROUND FLOOR AND ROOF

DRAWING NO. XXXX.

SHEET NO.

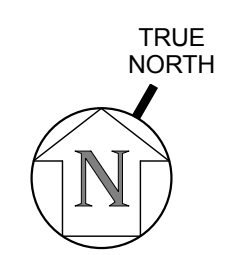
S2.1-PE4

50 OF 54

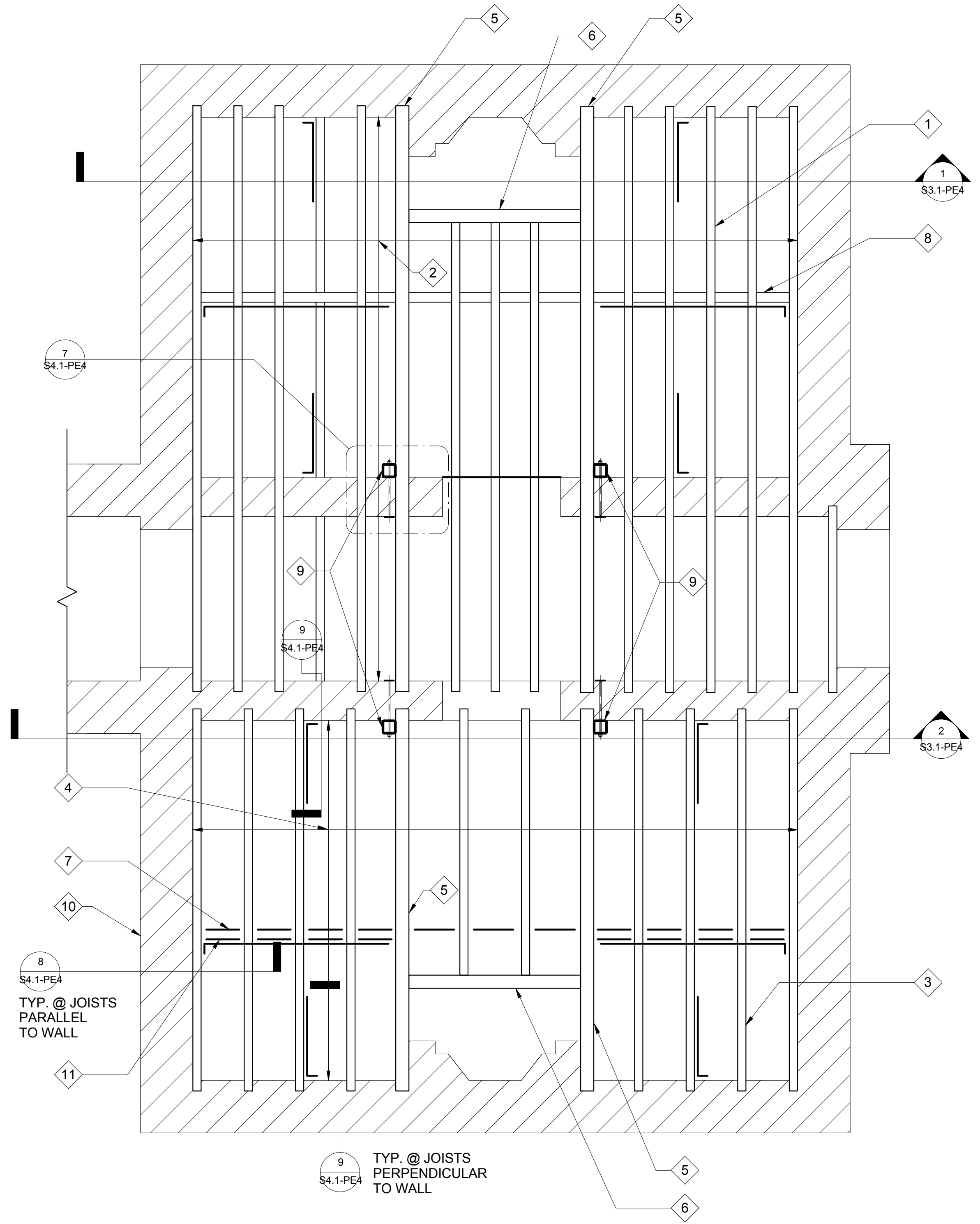


KEY NOTES:

- 1 (E) MASONRY WALL BELOW
- 2 (E) 3x6 RAFTERS @ 24" O.C.±, V.I.F.
- 3 15/32" STRUC. I PLYWOOD SHEATHING O/ (E) STRAIGHT SHEATHING. EACH END OF PLYWOOD TO BEAR ON JOIST. LOCATE EACH EDGE OF PLYWOOD ON CENTER OF INDIVIDUAL SHEATHING BOARDS. 8d @ 6" EDGE NAILING, 8d @ 12" FIELD NAILING.
- 4 (E) 3x12 RIDGE BEAM.

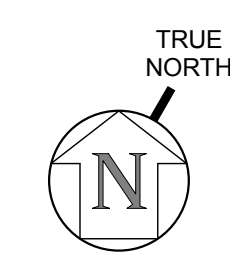


2 OIL HOUSE ROOF PLAN
1/2" = 1'-0"



KEY NOTES:

- 1 (E) 2 1/2" x 10 JOISTS @ 12" O.C.
- 2 (E) 1" SHEATHING W/ 3" TILE FLR.
- 3 (E) 2 1/2"x10 JOISTS @ 16" O.C.
- 4 (E) 1" SHEATHING
- 5 (E) 3x12, V.I.F.
- 6 (E) 4x12, V.I.F.
- 7 (E) 3x10 X-BRIDGING
- 8 (E) FULL DEPTH 3x BLKG., V.I.F., PROVIDE BLKG PER KEY NOTE IF (E) 3X BLKG. NOT VERIFIED.
- 9 HSS4x4x1/4 POST @ (E) MASONRY WALL
- 10 (E) MASONRY WALL
- 11 3x BLKG., FULL DEPTH, 4 BLKS. MIN.

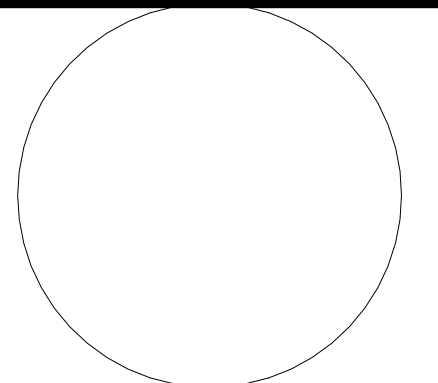


1 OIL HOUSE FLOOR PLAN
1/2" = 1'-0"

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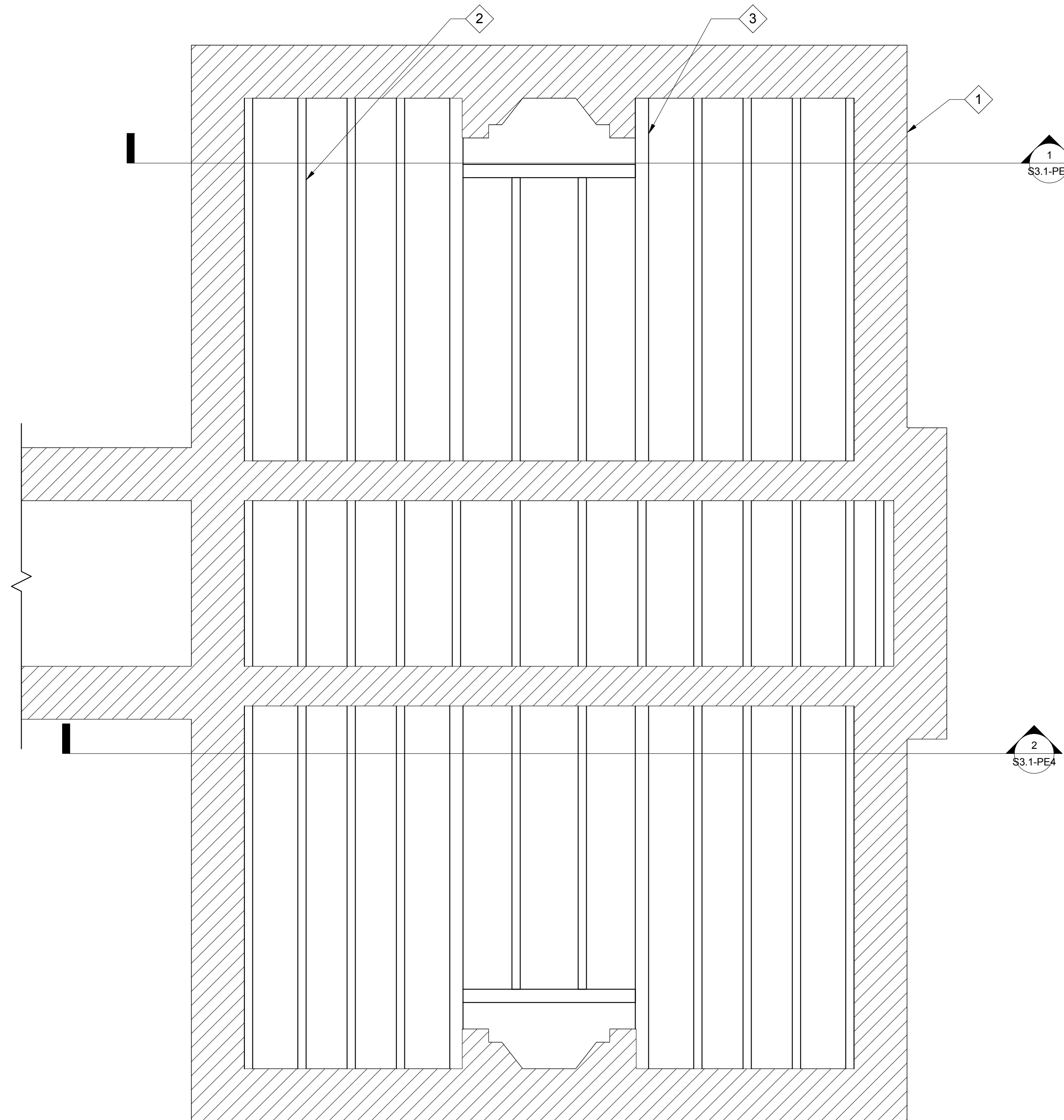
PIGEON POINT LIGHT STATION STATE HISTORIC PARK

OIL HOUSE CEILING PLAN

DRAWING NO.
XXXX.

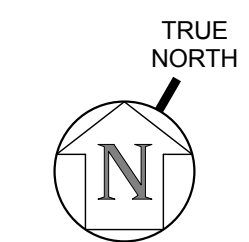
SHEET NO.
S2.2-PE4

51 OF 54



KEY NOTES:

- 1 (E) MASONRY WALL
- 2 (E) 2x6, TYP. CEILING JOISTS BELOW, V.I.F.
- 3 (E) 3X6, V.I.F.

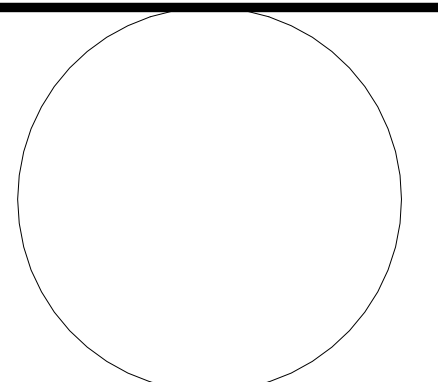


1 OIL HOUSE CEILING PLAN
1/2" = 1'-0"

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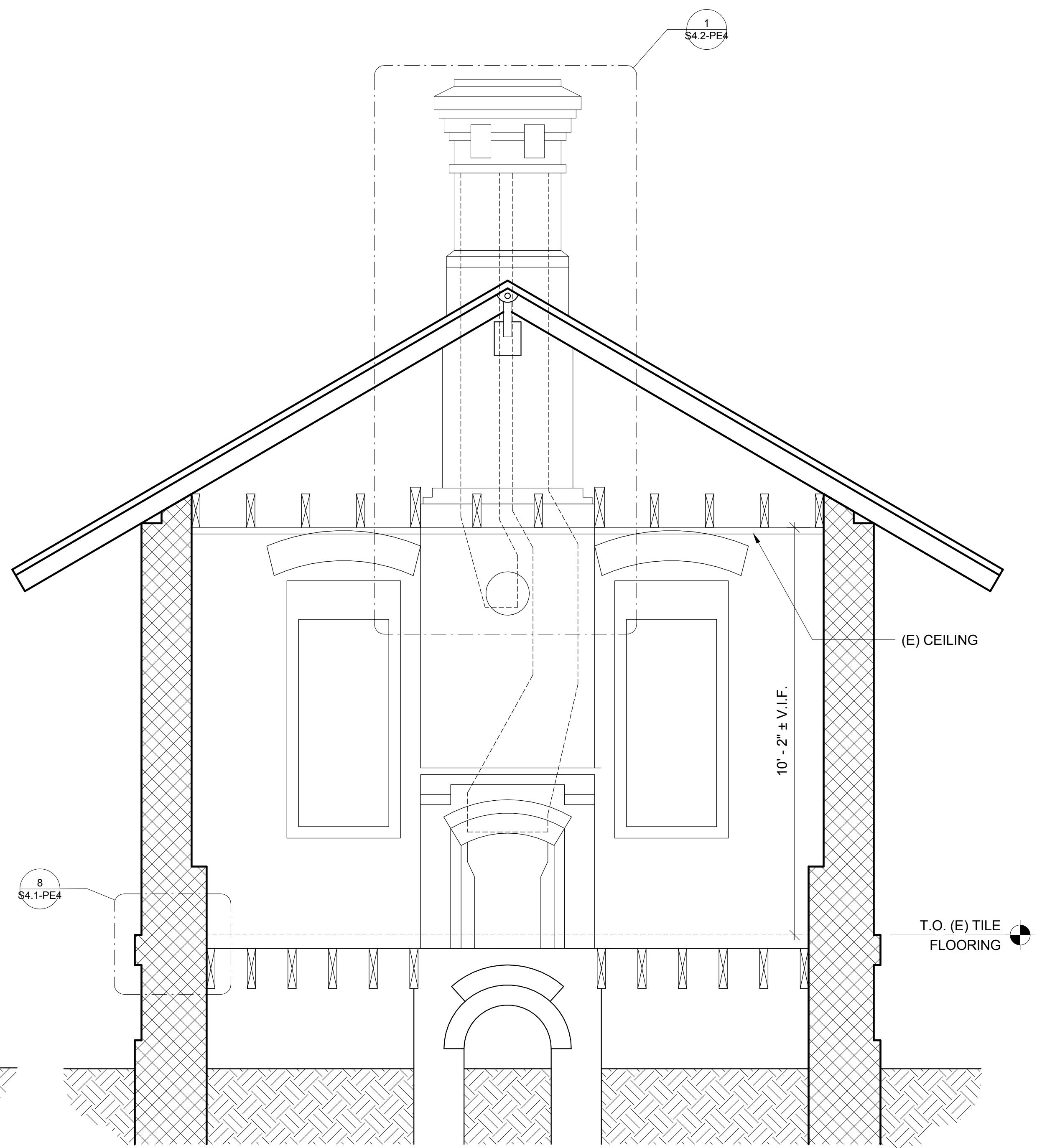
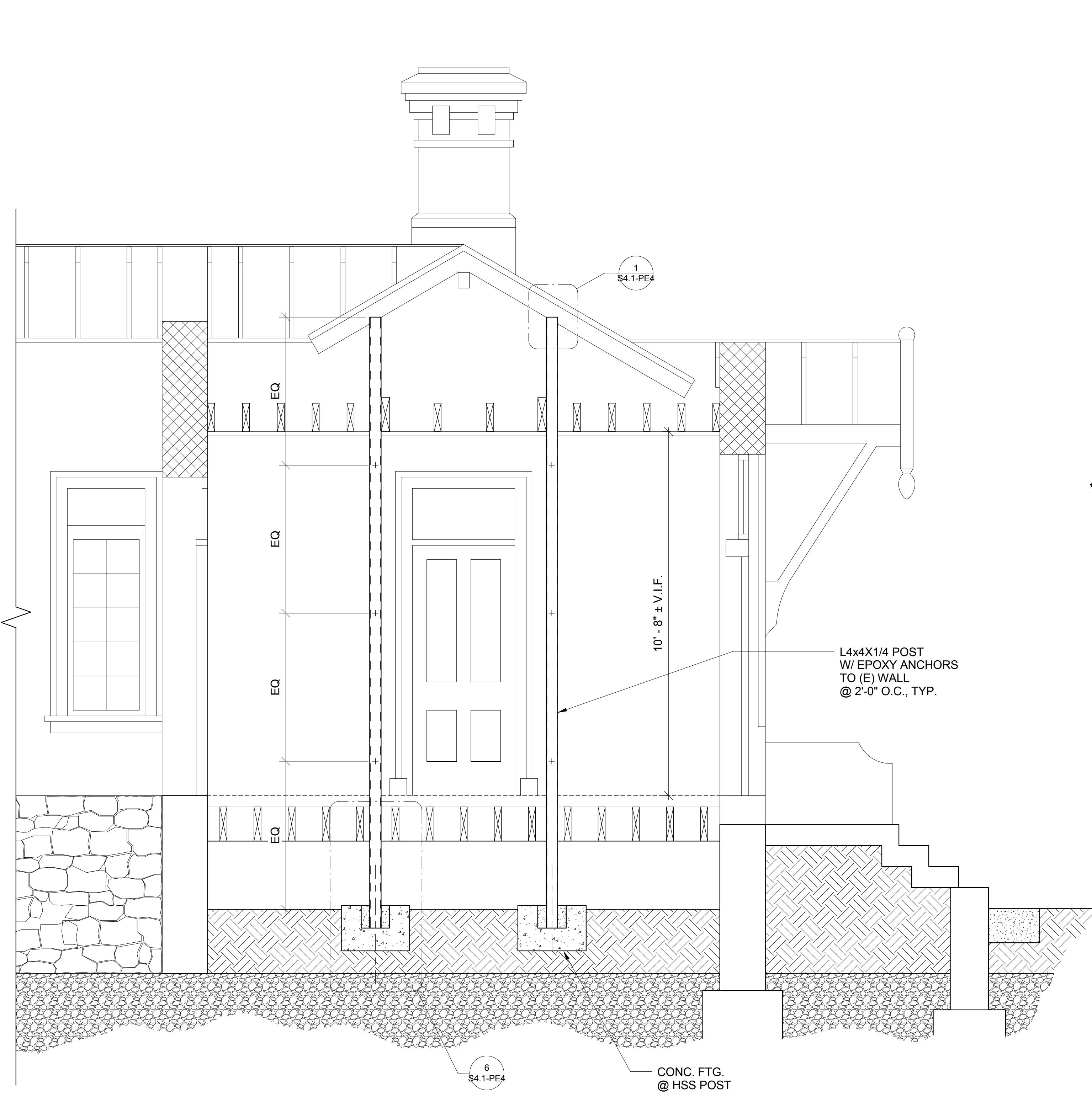
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DRAWN: MSA
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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
PROJECT ELEMENT #4
REHABILITATION OF THE OIL HOUSE
OIL HOUSE SECTIONS

DRAWING NO.
XXXX.

SHEET NO.
S3.1-PE4
52 OF 54



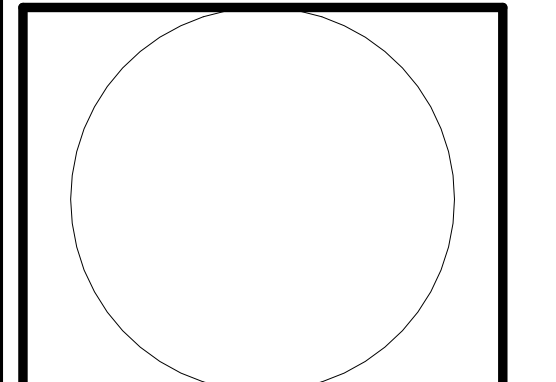
1 OIL HOUSE SECTION
1/2" = 1'-0"

2 OIL HOUSE SECTION
1/2" = 1'-0"

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PIGEON POINT LIGHT STATION STATE HISTORIC PARK
 PROJECT ELEMENT #2
 REHABILITATION OF THE UPPER LIGHTHOUSE TOWER
 STRENGTHENING DETAILS

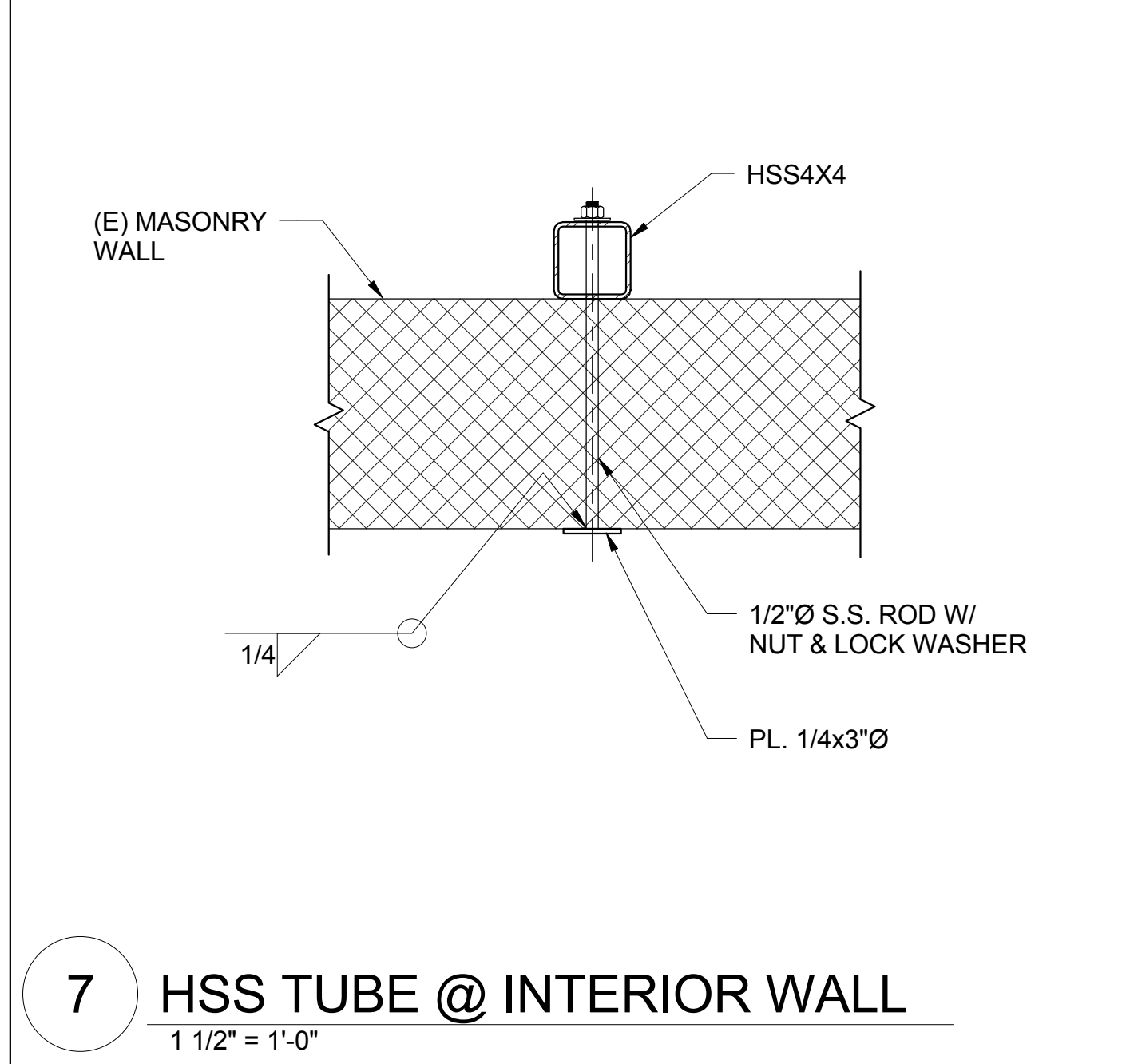
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SHEET NO.

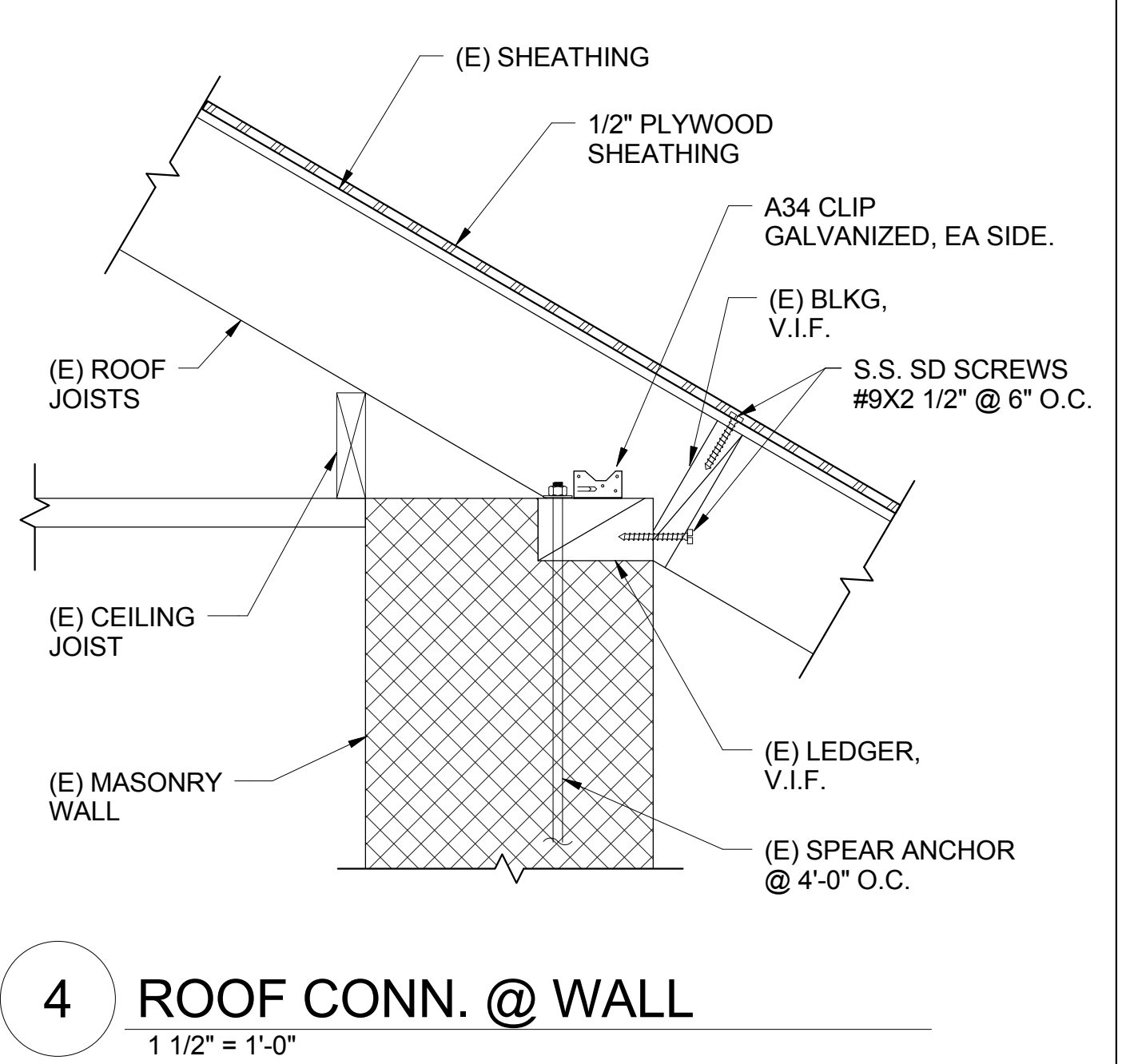
S4.1-PE4

53 OF 54

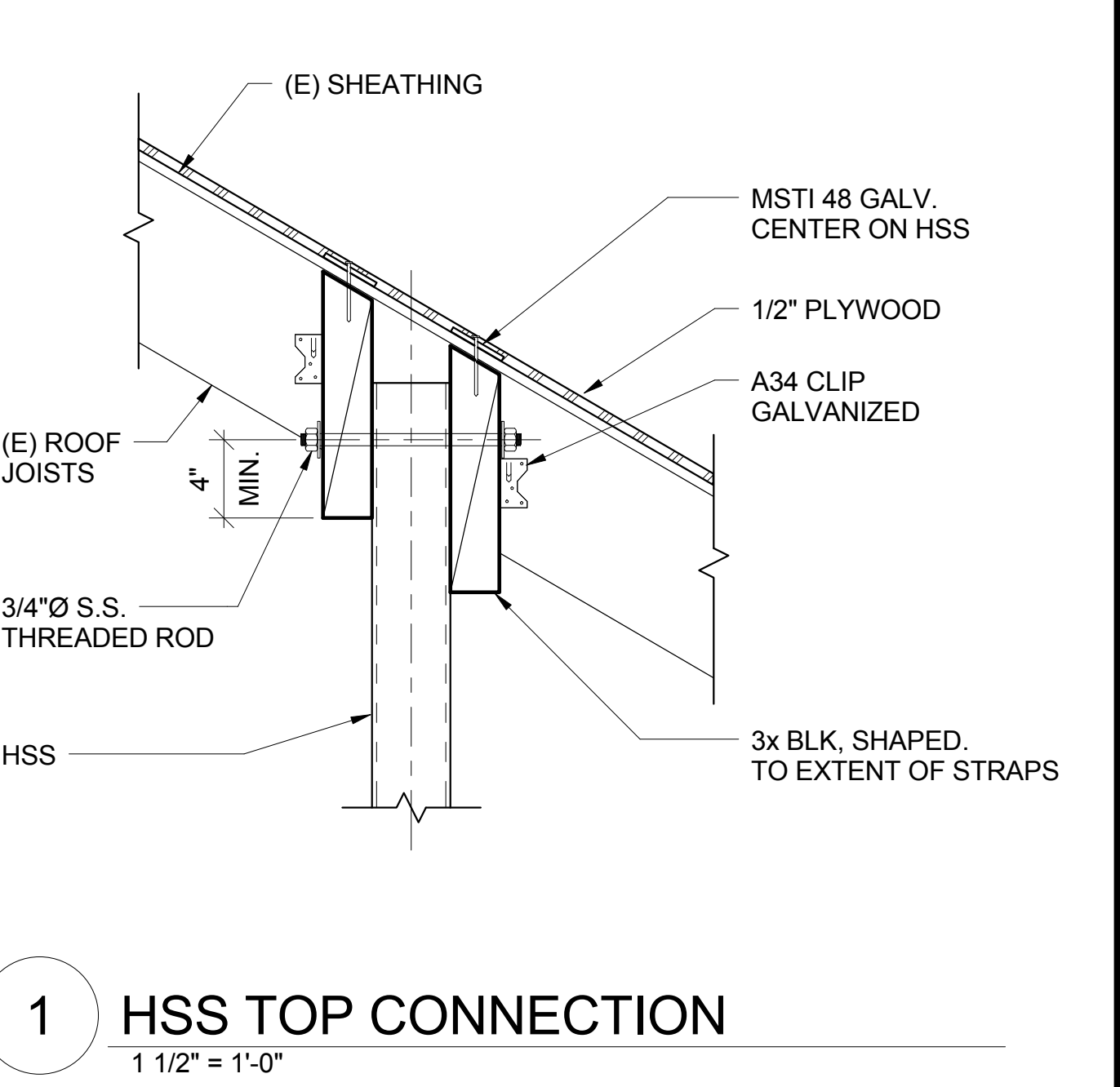
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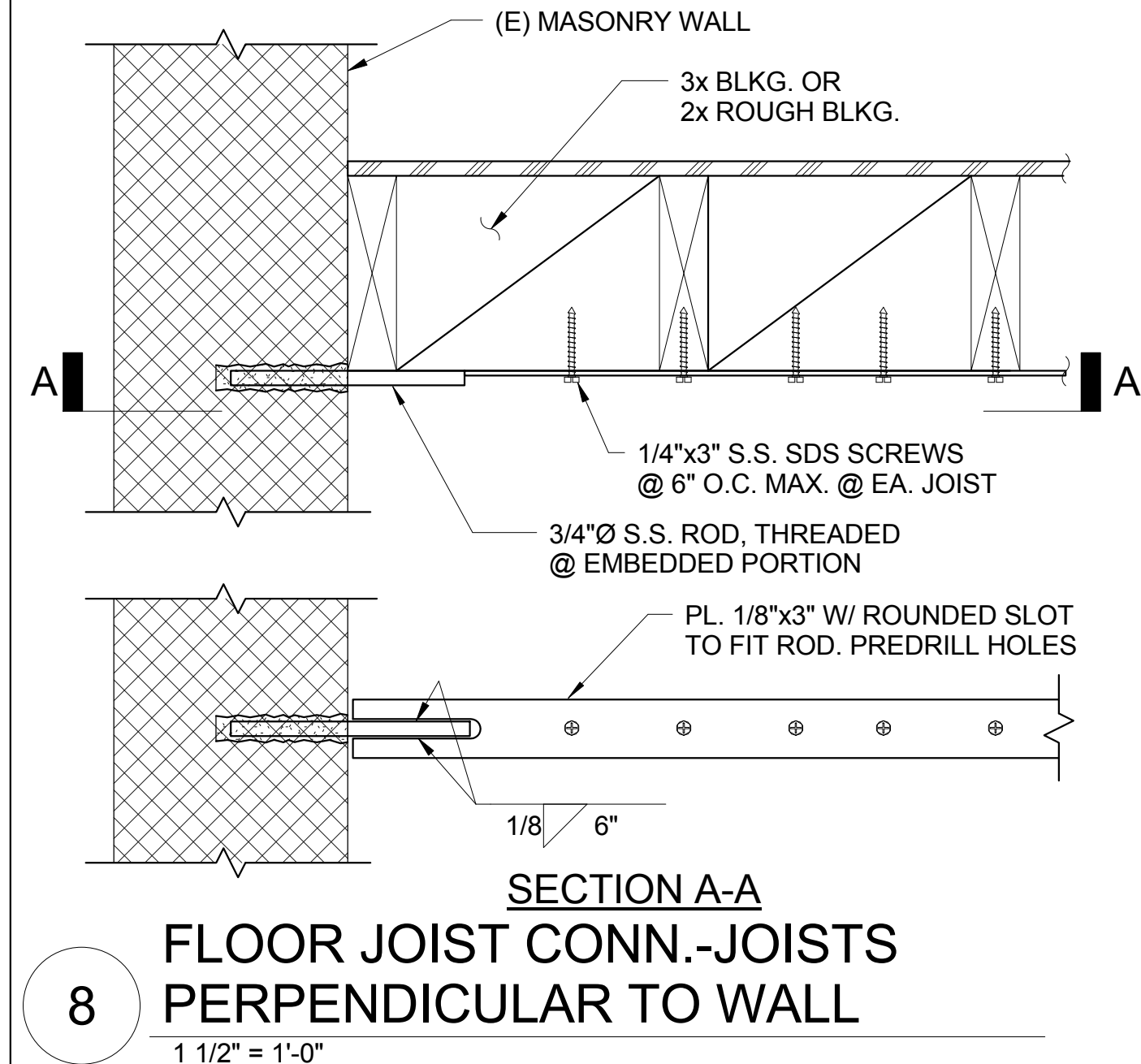
7 HSS TUBE @ INTERIOR WALL
1 1/2" = 1'-0"



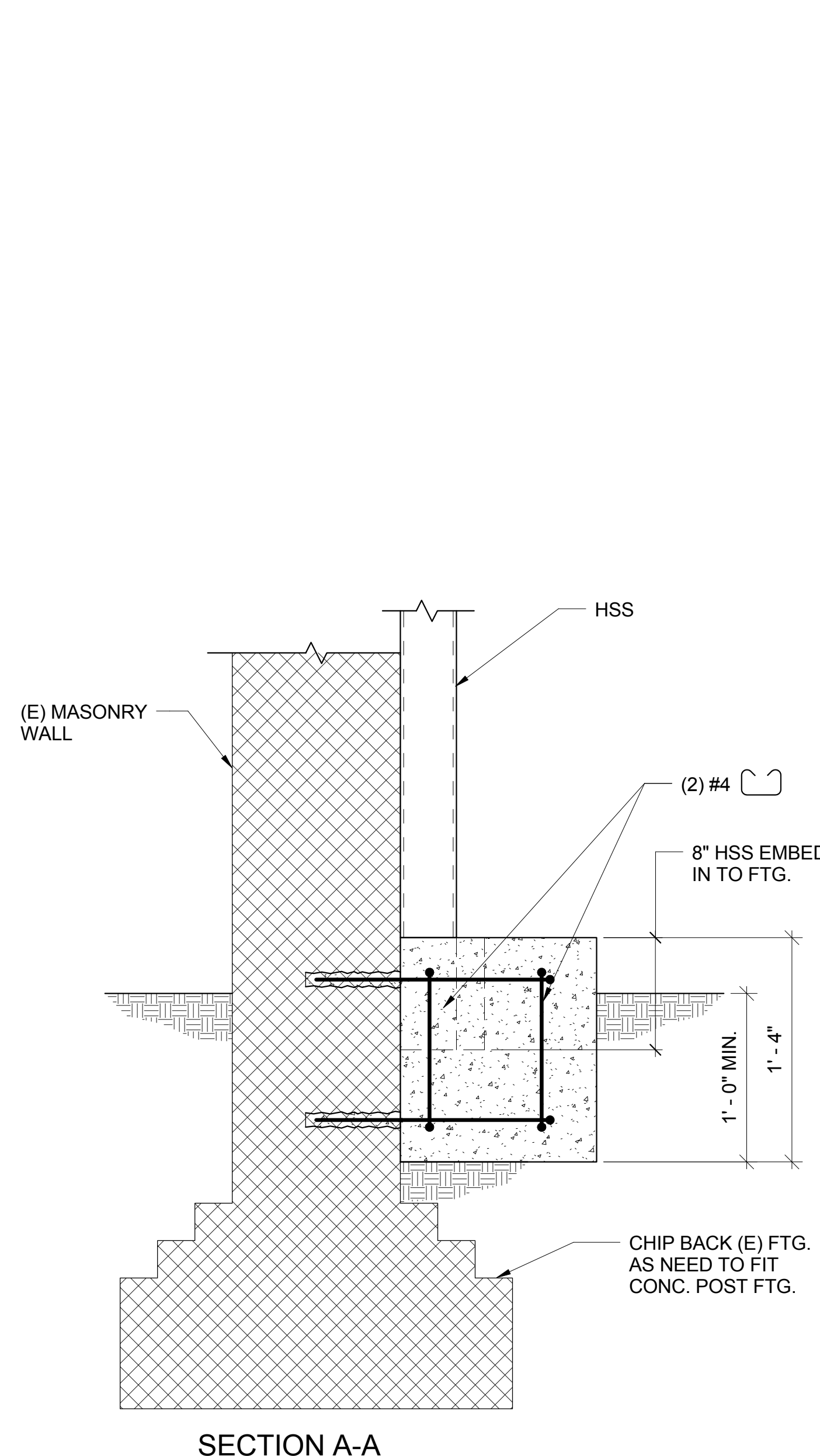
4 ROOF CONN. @ WALL
1 1/2" = 1'-0"



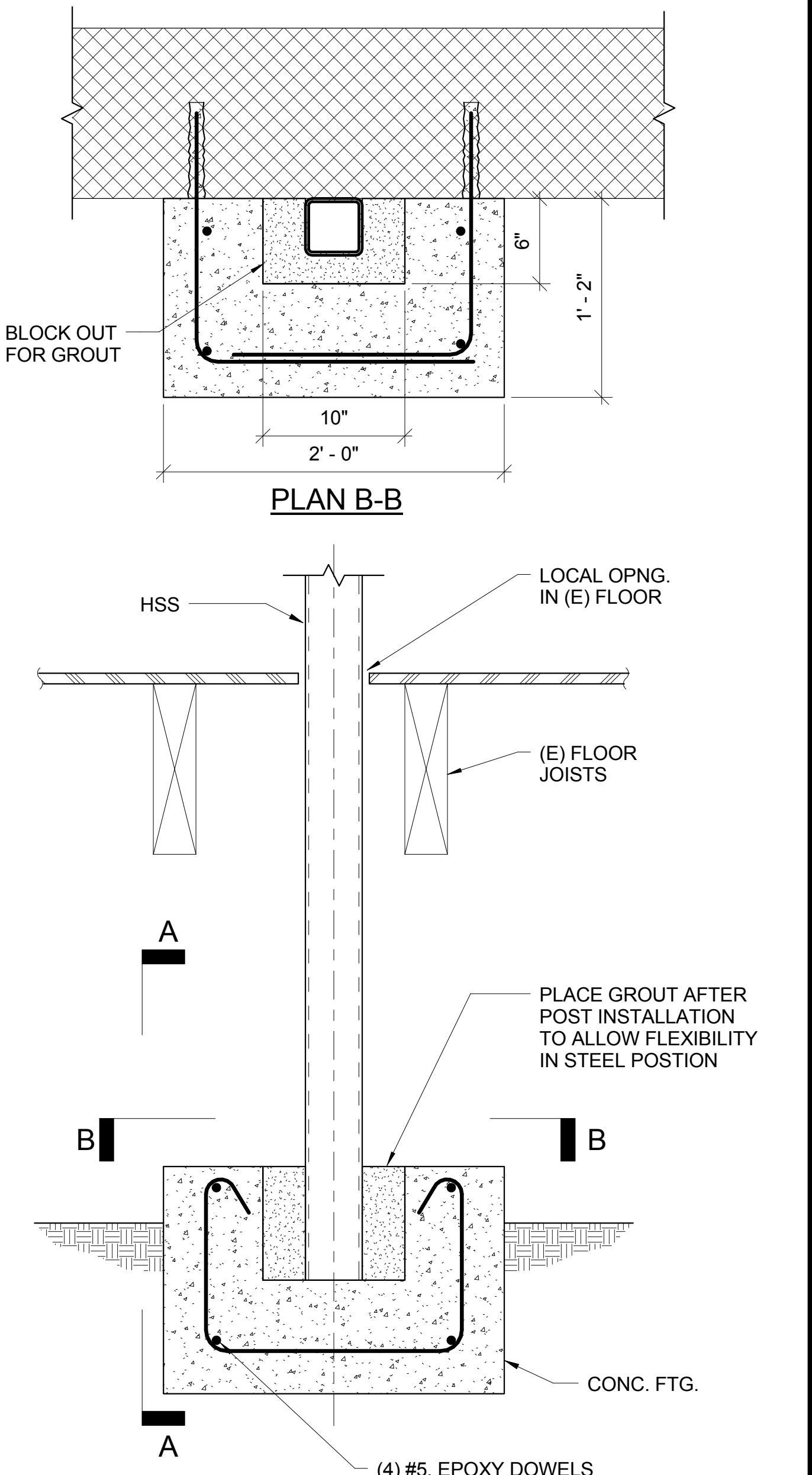
1 HSS TOP CONNECTION
1 1/2" = 1'-0"



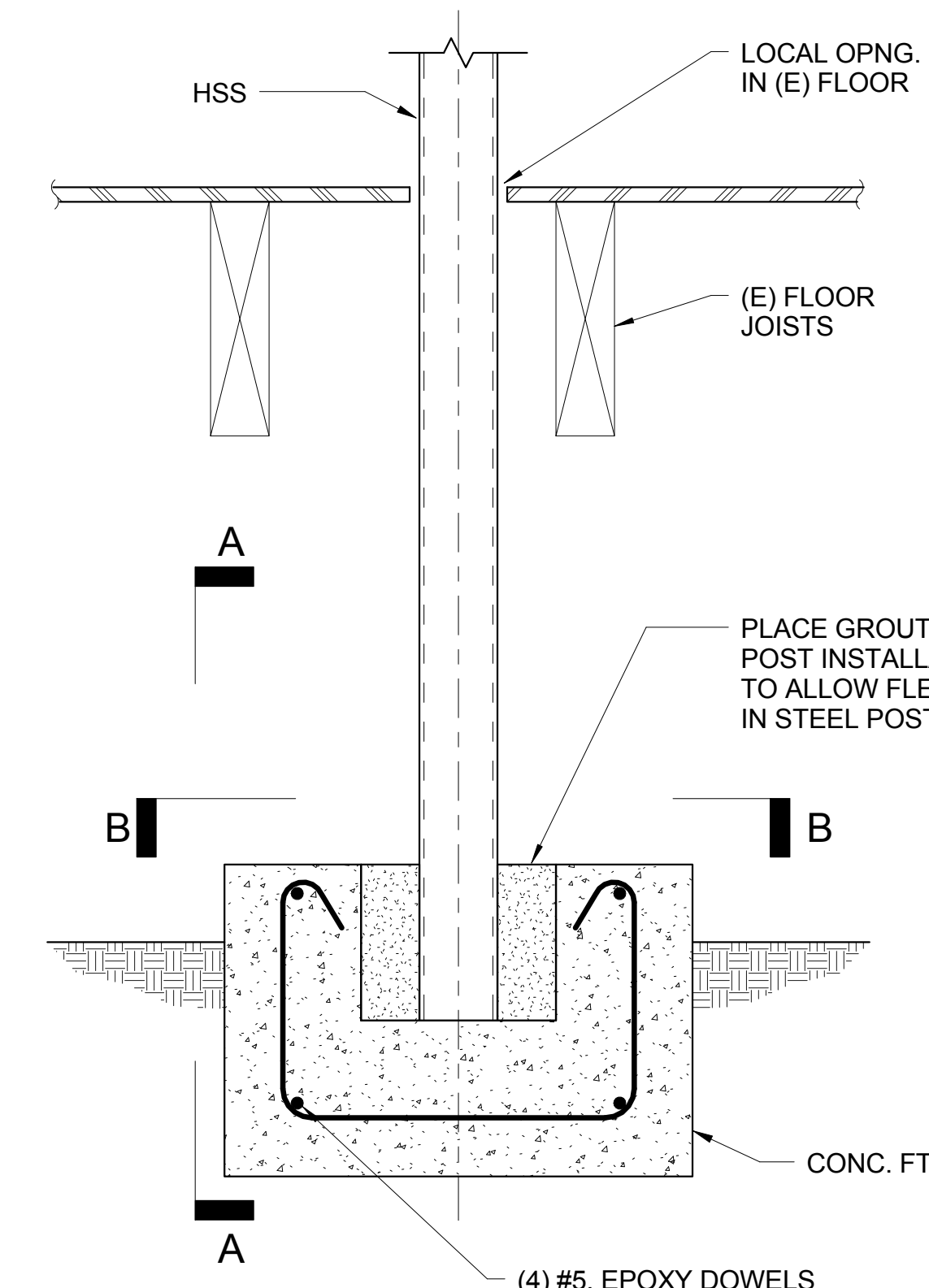
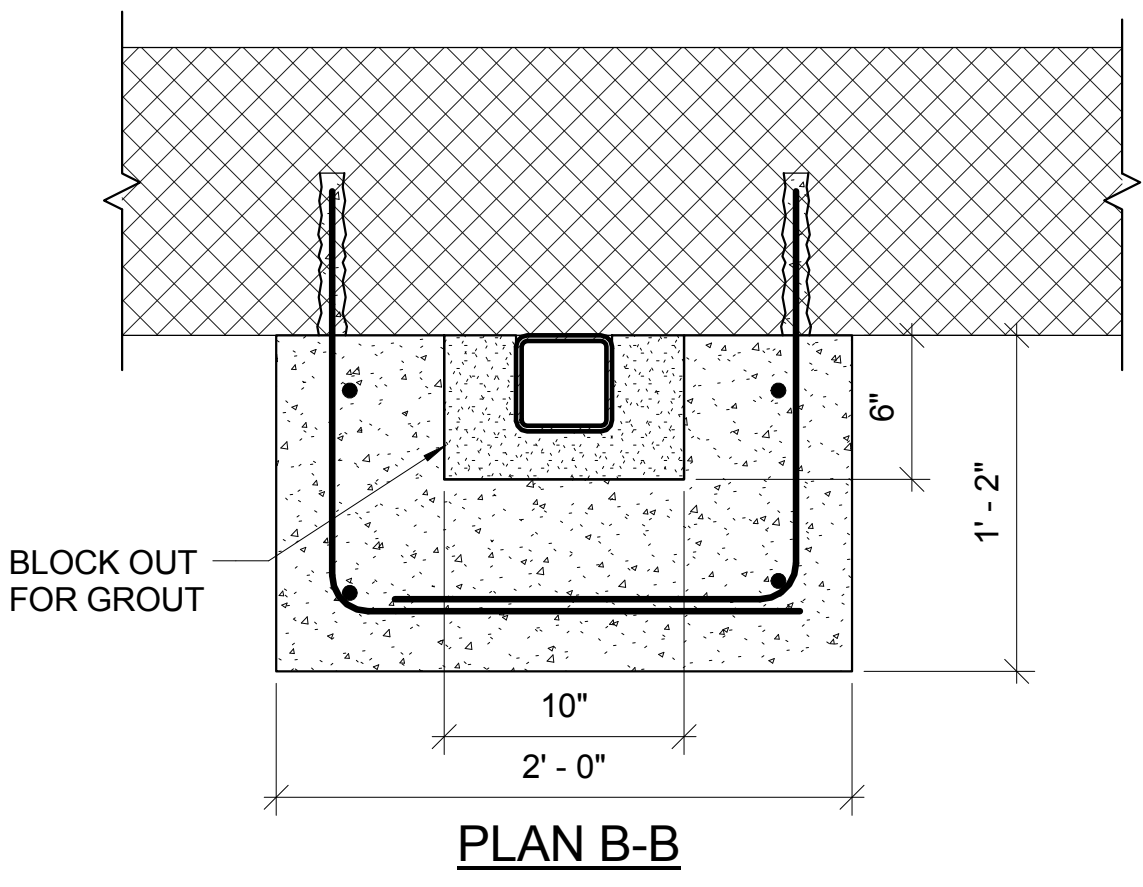
8 FLOOR JOIST CONN.-JOISTS PERPENDICULAR TO WALL
1 1/2" = 1'-0"



6 HSS POST FOOTING
1 1/2" = 1'-0"



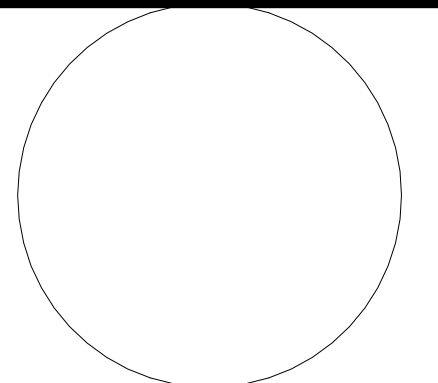
9 FLOOR JOIST CONN.-JOISTS PARALLEL TO WALL
1 1/2" = 1'-0"



SECTION A-A



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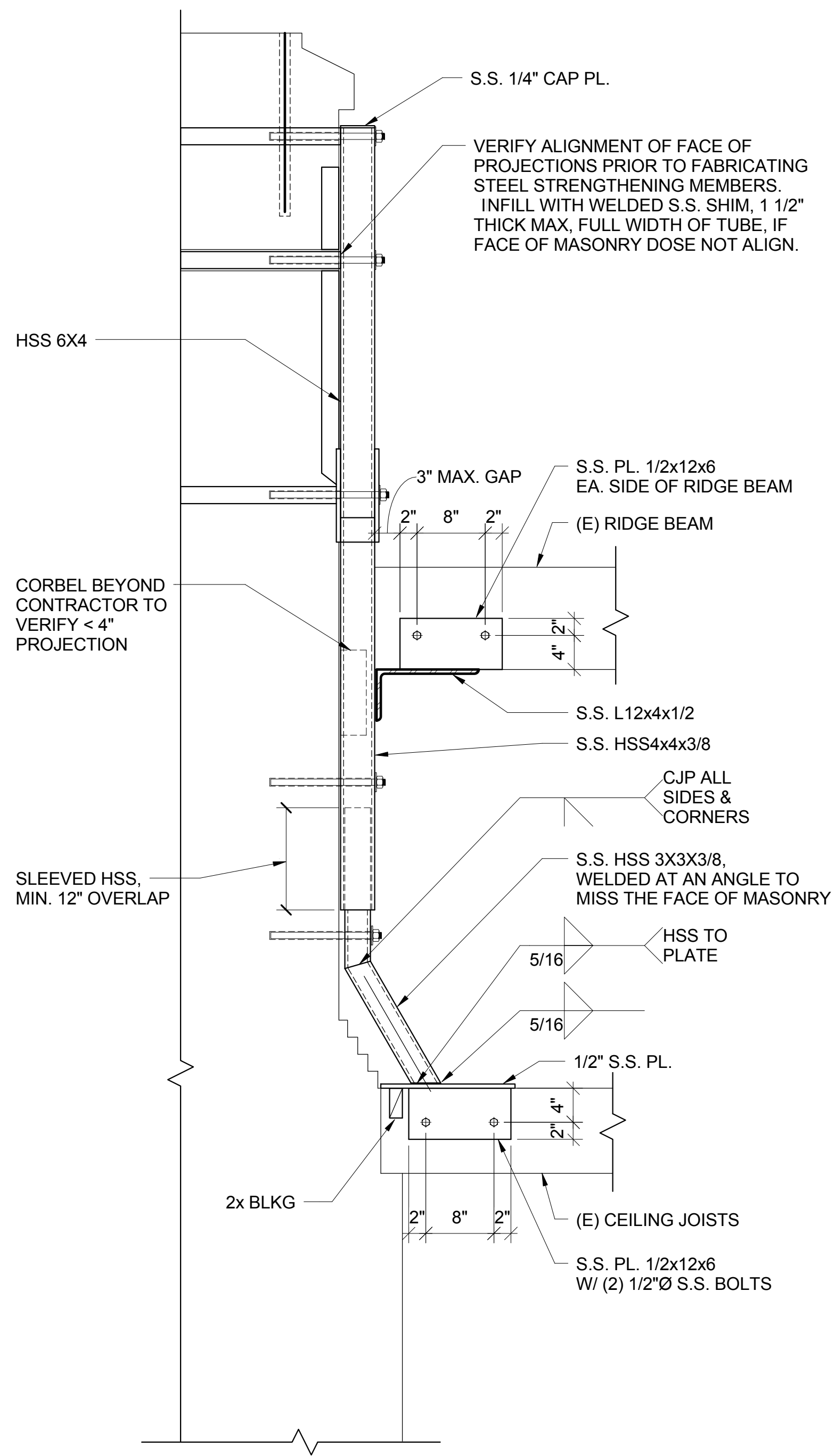
PIGEON POINT LIGHT STATION STATE HISTORIC PARK

STRENGTHENING DETAILS

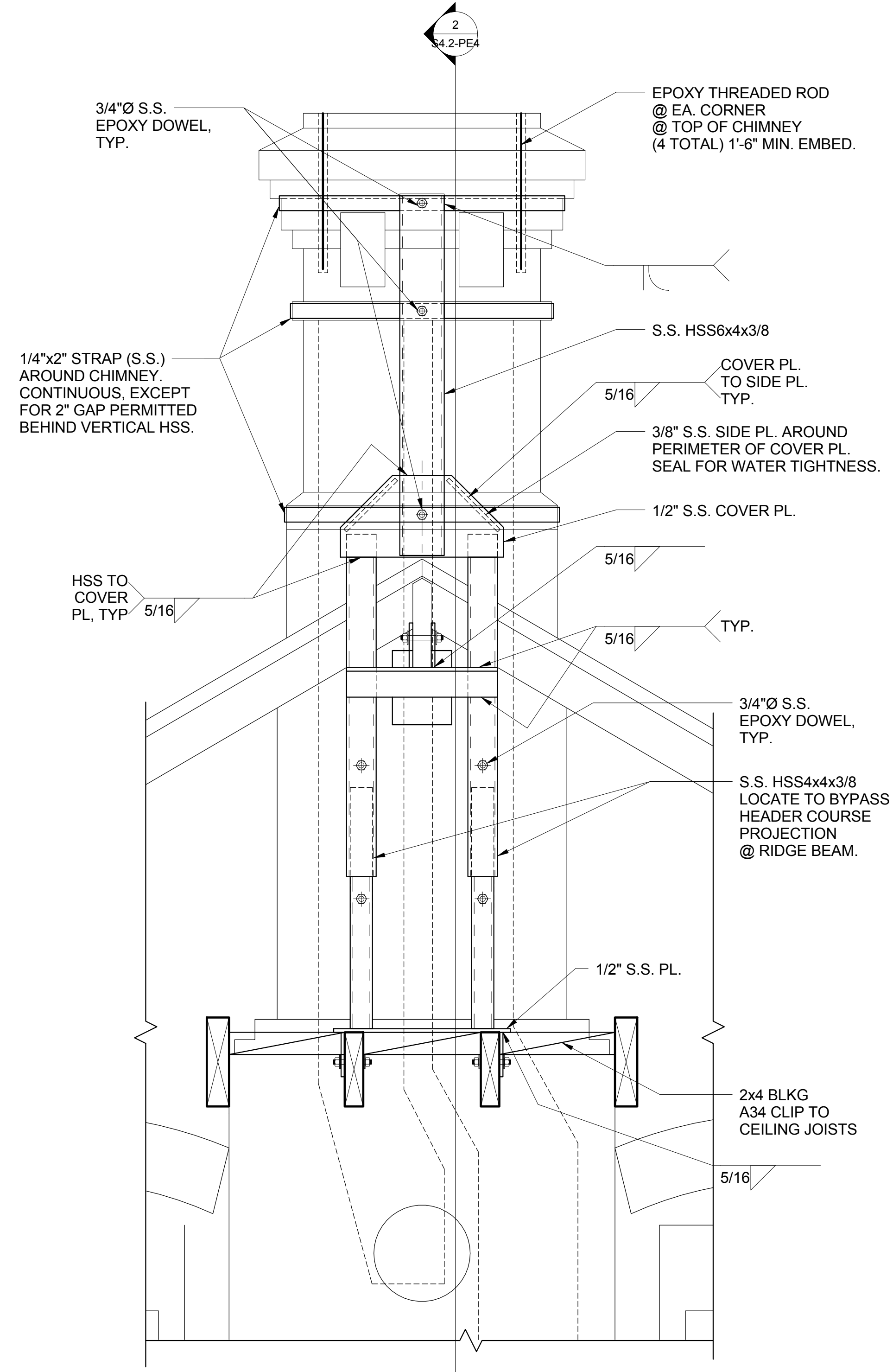
DRAWING NO.
XXXX.

SHEET NO.
S4.2-PE4

54 OF 54



2 CHIMNEY STRENGTHENING SECTION
1" = 1'-0"



1 CHIMNEY STRENGTHENING ELEVATION
1" = 1'-0"

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