DOCUMENT 00 90 00
ADDENDUM

ADDENDUM: 1

DATE: JANUARY 9, 2026

PROJECT: VILLAGE OF TREMPEALEAU
TREMPEALEU PARK SHELTER - REBID
24016 12TH STREET
TREMPEALEAU, WISCONSIN 54661
PROJECT NO. 25013

FROM: HSR Associates, Inc
100 Milwaukee Street
La Crosse, WI 54603
(608) 784-1830

TO: Prospective Bidders

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated DECEMBER 2025. Acknowledge receipt of this Addendum in the space provided on the bid form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of: 6 PAGES, 3 DOCUMENTS, 8 SECTIONS, and 29 DRAWINGS.

PRE-BID MEETING SIGN IN SHEET:

1. See document dated December 19.

CHANGES TO INTRODUCTORY INFORMATION AND BIDDING REQUIREMENTS:

2. Document 00 01 10 Table of Contents
   a. See the revised document included in this addendum. Disregard the previous version.
   b. Add Section 01 22 00 Unit Prices
   c. Add Section 01 45 33 Code Required Special Inspections and Procedures (Note: The section is listed in the table of contents here but the actual section will be provided in a subsequent addendum.)
   d. Remove Sections 06 41 00 Architectural Wood Casework
   e. Remove Section 06 61 00 Cast Polymer Fabrications
   f. Add Section 09 30 00 Tiling
3. Document 00 40 00 Bid Form
   a. See the revised document included in this addendum. Disregard the previous version.
   b. Added unit price items for civil work.

CHANGES TO GENERAL REQUIREMENTS:

4. Section 01 22 00 Unit Prices
   a. See the new section included in this addendum.

CHANGES TO SPECIFICATIONS:

5. Section 03 30 00 Cast In Place Concrete
   a. See the revised section included in this addendum. Disregard the previous version.
   b. Added 1.01 C. to list exterior slabs on grade shown on structural drawings in the section.
   c. Added 1.02 G. to list 09 30 00 Tiling as a related requirement.
   d. Added paragraph 1.06 to require a pre-installation meeting for
   e. Revised 3.05 D. to specify locations and requirements for hand tool and sawcut joints.
   f. Revised 3.08 and 3.12 improve coordination for finishing and curing exterior slabs shown on the structural drawings with finish and cure as required in Section 32 13 13 Portland Cement Concrete Paving.
6. Section 05 73 00 Decorative Metal Railings
   a. See the revised section included in this addendum. Disregard the previous version.
   b. Revised 2.06 to clarify fastener components and materials.
7. Section 06 41 00 Architectural Wood Casework
   a. Disregard the section. The section is hereby removed from the bidding documents.
8. Section 06 61 00 Cast Polymer Fabrications
   a. Disregard the section. The section is hereby removed from the bidding documents.
9. Section 07 43 23 Wood Siding
   a. See the revised section included in this addendum. Disregard the previous version.
   b. Revised 2.03 to specify the intended color i.e. “Honeycomb” as provided by pre-finisher DiamondKote. Matching colors by other pre-finishers are not excluded.
10. Section 09 30 00 Tiling
    a. See the new section included in this addendum.
11. Section 12 36 01 Custom Fabricated Stainless Steel Countertops
    a. See the revised section included in this addendum. Disregard the previous version.
    b. Added paragraph 1.01 A.3. to list cap at half-height wall.
    c. Removed 1.02 B. to remove the reference to Section 06 41 00.
    d. Removed 1.03 J. because this SMACNA seismic standard does not apply.
    e. Added new 2.02 to provide product requirements for wood components.
    f. Revised 2.02 D. to add wall cap to paragraph describing turned down edges.
    g. Removed paragraph 2.02 E. to remove requirements for backsplashes.
    h. Removed paragraph 2.02 G. to remove requirements for legs.
12. Section 31 20 00 Earth Moving
    a. See the revised section included in this addendum. Disregard the previous version.
    b. Removed paragraph 1.06 A.3. to remove the unit price item for Rock Blasting.
    c. Removed paragraph 3.02 B.2. to remove a specific stockpile location for excavated and unsuitable material.

13. Section 33 10 00 Water Distribution
    a. See the revised section included in this addendum. Disregard the previous version.
    b. Added paragraph 1.02 D. to add a reference to Wisconsin Plumbing Code.
    c. Revised multiple requirements in Part 2 Products

CHANGES TO DRAWINGS

14. Sheet C100 LAYOUT PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
15. Sheet C200 GRADING PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
16. Sheet C300 UTILITY PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
17. Sheet C400 DETAILS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes
18. Sheet A101 FIRST FLOOR PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added frost stoops at Toilet Room doors.
    c. Added control joints at Toilet Rooms.
    d. Revised dimensions at exterior columns at East and West sides.
    e. Revised dimensions at Women's TR compartments.
    f. Revised Fire Extinguisher Cabinet (FEC) in Concessions 101 to be fully recessed.
    g. Revised plan legend to include control joints.
    h. Revised key note 8 to widen butcher block countertop to 18 inches.
    i. Removed key note 9 regarding casework. Casework by owner.
    j. Revised key note 14 to specify stain stainless steel wall cap in lieu of solid surface.
    k. Revised key note 18 to indicate Owner provided casework.
    l. Added key note 19 to specify bottle filler.
19. Sheet A102 Press Box floor plan-enlarged toilet rooms 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised Fire Extinguisher Cabinet (FEC) in Press Box 200 to be fully recessed.
    c. Revised dimensions at Women's TR compartments.
20. Sheet A110 reflected ceiling plans 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added ceiling fans to Concessions 101 and Press Box 200.
21. Sheet A200 BUILDING ELEVATIONS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Raised T.O. WALL elevation 16" to 110'-8", subsequently raising all other bearing heights.

c. Added frost stoops at Toilet Room doors.
d. Revised dimensions at exterior columns.

22. Sheet A201 BUILDING ELEVATIONS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Raised T.O. WALL elevation 16” to 110’-8”, subsequently raising all other bearing heights.
    c. Added frost stoops at Toilet Room doors.
    d. Revised dimensions at exterior columns.
23. Sheet A210 INTERIOR ELEVATIONS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised elevation to show epoxy wall base. See added keynote 7.
    c. Revised Fire Extinguisher Cabinet (FEC) in Concessions 101 to be fully recessed.
    d. Added grease interceptor added in Concessions 101. See added keynote 9.
    e. Revised butcher block countertop to be 18” deep. See revised keynote 6.
24. Sheet A310 WALL SECTIONS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Raised T.O. WALL elevation 16” to 110’-8”, subsequently raising all other bearing heights.
25. Sheet A311 WALL SECTIONS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Raised T.O. WALL elevation 16” to 110’-8”, subsequently raising all other bearing heights.
26. Sheet A500 DETAILS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Raised T.O. WALL elevation 16” to 110’-8”, subsequently raising all other bearing heights.
27. Sheet A501 DETAILS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Raised T.O. WALL elevation 16” to 110’-8”, subsequently raising all other bearing heights.
    c. Revised equipment platform detail to show opening in sheathing for mechanical.
28. Sheet A600 wall types-door schedule-frame types 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised door schedule to remove insulation from coiling doors 101.8 and 101.9.
29. Sheet S001 STRUCTURAL NOTES 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
30. Sheet S100 FOUNDATION PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.

31. Sheet S101 PRESSBOX 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
32. Sheet S102 Pressbox and Pavilion Roof 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
33. Sheet S801 STRUCTURAL DETAILS 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
34. Sheet P000 GENERAL NOTES 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised Fixture Unit Summary to change quantity of DF-1 Drinking Fountain to 1 count and adding DF-2 Drinking Fountain – Bottle Filler.
    c. Revised Fixture Specifications in regard to DF-1 and DF-2.
35. Sheet P100 UNDERFLOOR PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised connections to water and gas utilities.
    c. Added plumbing to wall clean out.
36. Sheet P101 FIRST FLOOR PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised connections to water and gas utilities.
    c. Added plumbing to wall clean out.
37. Sheet P200 DWV ISOMETRIC 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised isometric for wall cleanout and DF-2.
38. Sheet P201 WATER ISOMETRIC 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Revised connection to water utility.
    c. Added DF-2 to isometric.
39. Sheet M100 HVAC PLAN 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. Added destratification fans.
40. Sheet E101 FLOOR PLANS - LIGHTING 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
41. Sheet E102 floor plans – power & systems 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.
42. Sheet E801 Schedules - Connections 30"x42"
    a. See the revised sheet included in this addendum. Disregard the previous version.
    b. See clouded changes.

PRIOR APPROVALS

43. Section 07 41 13 Metal Roof Panels
    a. Include Sheffield Metals as a listed manufacturer.

END OF DOCUMENT 00 90 00

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN
HSR Associates
Celebrating 70 Years of Innovative Design

Pre-Bid Meeting Sign-In Sheet

December 19, 2025

PROJECT: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID
24016 12TH STREET
TREMPEALEAU, WI 54661
HSR PROJECT NO. 25013

BID OPENING: 11:00 AM, January 16, 2026

Name	Company
1. TRENT SCHOTT	HSR
2. Jon Brady	Ashley
3. MATT GOULETTE	ASHLEY
4. Gary Simmons	Simmons Const.
5. Mac Smith	B+B Electric
6. MATTHEW MEYER	WIESER BROTHERS
7. Brent Slaten	Americon
8. Wade Woods	LaX Backhoe Ser.
9.	
10.	
11.	
12.	
13.	
14.	
15.	
16.	
17.	
18.	
19.	

Page Intentionally Left Blank

DOCUMENT 00 01 10
TABLE OF CONTENTS

Introductory Information

Procurement Requirements

Contracting Requirements

General Requirements

Division 1 – General Requirements

Facility Construction

Division 2 – Existing Conditions [Not Used]

Division 3 – Concrete

Division 4 – Masonry

Division 5 – Metals

Division 6 – Wood, Plastics and Composites

Division 7 – Thermal and Moisture Protection

Division 8 – Openings

Division 9 – Finishes

Site and Infrastructure

Division 31 – Earthwork [See Table of Contents at the start of Division 31]

Division 32 – Exterior Improvements [See Table of Contents at the start of Division 31]

Division 33 – Utilities [See Table of Contents at the start of Division 31]

END OF DOCUMENT 00 01 10

Page Intentionally Left Blank

DOCUMENT 00 41 00
BID FORM

BIDDER: _____

BID TYPE: SINGLE PRIME CONTRACT

PROJECT: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID
24016 12TH STREET
TREMPEALEAU, WISCONSIN 54661
PROJECT NO. **25013**
DATE OF PROJECT MANUAL: DECEMBER 2025

OWNER: VILLAGE OF TREMPEALEAU
24455 3RD ST.
TREMPEALEAU, WISCONSIN 54661

BASE BID

The undersigned, having examined the site where the Work is to be executed and become familiar with local conditions affecting the cost of the Work and carefully examined the Project Manual, the Project Drawings, all other Bidding Documents and Addenda thereto prepared by the AE, HSR Associates, Inc., hereby agrees to provide all labor, materials, equipment and services necessary for the complete and satisfactory execution of the ENTIRE WORK, in the time frame stipulated in these contract documents, for the Base Bid stipulated sum of:

_____

_____Dollars ($_____.00)

ALTERNATE BIDS

The undersigned further agrees to perform the alternative portions of the Work as described in the Project Manual, Section 01 23 00 Alternates, for the following additions to or deductions from the Base Bid sum stipulated above:

Alternate No. 1 (Masonry Veneer at Column Bases)

Add _____ Dollars ($_____.00)

Alternate No. 2 (Kitchen Hood and Ansul System)

Add _____ Dollars ($_____.00)

Page Intentionally Left Blank

UNIT PRICES

BIDDER'S CHOICE SUBSTITUTIONS

The following Bidder's Choice Substitution is proposed for your consideration subject to the requirements set forth in Document 00 22 13 Supplementary Instructions to Bidders, Subparagraph 3.3.4:

Substitution No.: Click or tap here to enter text.

For substituting: _____

_____

Type, Brand, Catalog No.: _____

Manufacturer: _____

Deduct from BASE BID _____ Dollars ($_____.00)

Substitution No.: Click or tap here to enter text.

For substituting: _____

_____

Type, Brand, Catalog No.: _____

Manufacturer: _____

Deduct from BASE BID _____ Dollars ($_____.00)

Page Intentionally Left Blank

In submitting this Bid, the undersigned agrees to:

1. Hold this Bid open for **30** days.
2. Accept the provisions of Instructions to Bidders regarding disposition of Bid Security.
3. Enter into and execute an Agreement, if awarded on the basis of this Bid, and to furnish Performance and Labor and Material Payment Bonds according to the Supplementary Conditions.
4. Accomplish work according to the Contract Documents.
5. Complete the work by the time stated in Section 01 10 00 Summary of the Work.

Receipt of the following Addenda and inclusion of their provisions in this Bid is hereby acknowledged:

Addendum No._____ Dated_____

Addendum No._____ Dated_____

Addendum No._____ Dated_____

Addendum No._____ Dated_____

Attached hereto are the required:

☐ Bid Security

☐ 00 45 13 Certificate of Organization and Authority

☐ 00 45 19 Non-Collusive Affidavit

Affix Corporate Seal (if corp.)

FIRM NAME: _____

Title: _____

By: _____

Title: _____

Date: _____

Official Address: _____

Telephone: _____

END OF DOCUMENT 00 41 00

Page Intentionally Left Blank

SECTION 01 22 00
UNIT PRICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. List of unit prices, for use in preparing Bids.

B. Measurement and payment criteria applicable to Work performed under a unit price payment method.

1.02 RELATED REQUIREMENTS

A. Document 00 21 13 - Instructions to Bidders: Instructions for preparation of pricing for Unit Prices.

B. Section 01 20 00 - Price and Payment Procedures: Additional payment and modification procedures.

1.03 COSTS INCLUDED

A. Unit prices shall be used in determining additions to or deductions from the Contract amount when changes in the Work as shown on the Drawings or in the Project Manual are directed. They will apply only when the changes involve materials, specifications, methods, and designs that are the same as those required in the work shown and/or specified. This will not be applied to changes requiring the use of materials, specifications, methods or design of different character from those shown or specified. The unit prices shall include full compensation for all required labor, products, tools, equipment, plant, transportation, inspections, measurements, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

1.04 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

1.05 MEASUREMENT OF QUANTITIES

A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.

B. Assist by providing necessary equipment, workers, and survey personnel as required.

C. Measurement Devices:
   1. Weigh Scales: Inspected, tested and certified by the applicable state Weights and Measures department within the past year.
   2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
   3. Metering Devices: Inspected, tested and certified by the applicable state department within the past year.

D. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.

E. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.

F. Measurement by Area: Measured by square dimension using mean length and width or radius.

G. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.

H. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.

1.06 PAYMENT

A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.

B. Payment will not be made for any of the following:
   1. Products wasted or disposed of in a manner that is not acceptable.
   2. Products determined as unacceptable before or after placement.
   3. Products not completely unloaded from the transporting vehicle.
   4. Products placed beyond the lines and levels of the required Work.
   5. Products remaining on hand after completion of the Work.
   6. Loading, hauling, and disposing of rejected Products.

1.07 SCHEDULE OF UNIT PRICES

A. Unit Price UP-1: (Over Excavation of Unsuitable Soils)
   1. State the amount per cubic yard to add or delete removal of unsuitable soil, in place, as specified in Section 31 20 00 Earth Moving. Such amount shall include legal removal of said soil from the Project Site.
   2. Include 30 cubic yard of UP-1 in base bid.

B. Unit Price UP-2: (Compacted Granular Fill)
   1. State the amount per cubic yard to add or delete compacted granular fill, in place, as specified in Section 31 20 00 Earth Moving.
   2. Include 30 cubic yard of UP-2 in base bid.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION

SECTION 03 30 00
CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Concrete formwork.

B. Interior slabs on grade.

C. Exterior slabs on grade shown on structural sheets.

D. Concrete foundation walls.

E. Joint devices associated with concrete work.

F. Under slab vapor barrier.

G. Concrete curing.

1.02 RELATED REQUIREMENTS

A. Applicable provisions of Division 1 govern the work of this section.

B. Section 01 43 39 - Mockups: Integrated Exterior Mockups.

C. Section 03 20 00 - Concrete Reinforcing.

D. Section 07 92 00 - Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.

E. Division 9 Floor Finishes: Restrictions for compatibility of flooring adhesives in regards to curing compounds, sealers and slab moisture content.

F. Section 09 05 61 - Common Work Results for Flooring Preparation: Additional floor flatness testing at large format tile locations.

G. Section 09 30 00 - Tiling: Coordinate slab on grade control joints with the tiling contractor.

1.03 REFERENCE STANDARDS

A. ACI CODE-318 - Building Code Requirements for Structural Concrete and Commentary; 2019 (Reapproved 2022).

B. ACI PRC-211.1 - Selecting Proportions for Normal-Density and High Density-Concrete - Guide; 2022.

C. ACI PRC-302.1 - Guide to Concrete Floor and Slab Construction; 2015.

D. ACI PRC-304 - Guide for Measuring, Mixing, Transporting, and Placing Concrete; 2000 (Reapproved 2009).

E. ACI PRC-305 - Guide to Hot Weather Concreting; 2020.

F. ACI PRC-306 - Guide to Cold Weather Concreting; 2016.

G. ACI PRC-308 - Guide to External Curing of Concrete; 2016.

H. ACI PRC-347 - Guide to Formwork for Concrete; 2014 (Reapproved 2021).

I. ACI SPEC-117 - Specification for Tolerances for Concrete Construction and Materials; 2010 (Reapproved 2015).

J. ACI SPEC-301 - Specifications for Concrete Construction; 2020.

K. ASTM C1609/C1609M - Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading); 2019a.

L. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2023.

M. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens; 2023.

N. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete; 2024.

O. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 50 mm [2 in.] Cube Specimens); 2023.

P. ASTM C171 - Standard Specification for Sheet Materials for Curing Concrete; 2020.

Q. ASTM C260/C260M - Standard Specification for Air-Entraining Admixtures for Concrete; 2010a (Reapproved 2016).

R. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2019, with Editorial Revision (2022).

S. ASTM C618 - Standard Specification for Coal Ash and Raw or Calcined Natural Pozzolan for Use in Concrete; 2023, with Editorial Revision.

T. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete; 2020a.

U. ASTM C1059/C1059M - Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete; 2021.

V. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink); 2020.

W. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete; 2019.

X. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete; 2022.

Y. ASTM D8139 - Standard Specification for Semi-Rigid, Closed-Cell Polypropylene Foam, Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction; 2023.

Z. ASTM E1155/E1155M - Standard Test Method for Determining FF Floor Flatness and FL Floor Levelness Numbers; 2023.

AA. ASTM E1643 - Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs; 2018a.

BB. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs; 2017 (Reapproved 2023).

CC. ICC (IBC)-2015 - International Building Code; 2015.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for procedures.

B. Provide submittal transmittals that include all submittal items identified in each submittal group below.

C. Review Submittals - Preparatory:
   1. Mix Design: Submit proposed concrete mix designs prior to proceeding with any concrete work. Do not proceed until A/E responds to permit use of the concrete mixes.
      a. Aggregates: Include service record data indicating absence of deleterious expansion of concrete due to alkali aggregate reactivity.
      b. Admixtures required to meet job and environment requirements.
   2. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
      a. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
   3. Control Joint Drawings: Prior to start of concrete work submit drawings showing proposed construction and control joints for slabs.
   4. Shop Drawings: See Section 03 20 00.

D. Information Submittals - Preparatory:
   1. Material Certificates: Provide signed manufacturer certificates:
      a. Cementitious materials.

b. Admixtures.

2. Concrete Placement Schedule: Submit to Architect/Engineer prior to placing any concrete.

E. Information Submittals - During Execution:

1. Test Reports: Provide test reports for the work of this section as the test reports are issued by the testing agency. If the A/E is included in the distribution from the testing agency, it is not necessary for test results to be provided via the submittal process as part of this submittal group. Collected test reports will be required as part of the closeout submittal group.

F. Closeout Submittals:

1. Project Record Documents: Accurately record actual locations of embedded utilities and components that will be concealed from view upon completion of concrete work.
2. Test Reports: Laboratory test reports to AE for placed concrete as specified herein.
3. Copies of delivery tickets for each load of concrete delivered to Project shall be submitted with closeout documents.

1.05 QUALITY ASSURANCE

A. Perform work of this section in accordance with ACI SPEC-301 and ACI CODE-318.

B. Follow recommendations of ACI PRC-305 when concreting during hot weather.

C. Follow recommendations of ACI PRC-306 when concreting during cold weather.

D. Contractor shall confirm and coordinate various requirements, restrictions or special conditions (i.e. slump, surface finish, curing and sealing compatibility) with floor finish suppliers prior to placing concrete.

1.06 PRE-INSTALLATION MEETING

A. The General Contractor shall convene a pre-installation meeting a minimum of two weeks prior to Work of this section. Attendee's shall include Section 03 30 00 and 09 30 00 contractors, Owner's representative and the Architect. Agenda shall include, at a minimum, placement schedule, cure time, concrete mix designs in regards to limiting moisture content, reinforcing placement to limit slab cracking, any control joint requirements shall be laid out to tile layout for joint/mortar joint alignment, slab recess dimension, slab flatness requirements, slab finish requirement.

PART 2 PRODUCTS

2.01 FORMWORK

A. Formwork Design and Construction: Comply with guidelines of ACI PRC-347 to provide formwork that will produce concrete complying with tolerances of ACI SPEC-117.

B. Form Materials: Contractor's choice of standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted tolerances.

1. Form Facing for Exposed Finish Concrete: Contractor's choice of materials that will provide smooth, stain-free final appearance.
2. Form Coating: Release agent that will not adversely affect concrete or interfere with application of coatings.

2.02 REINFORCEMENT MATERIALS

A. Comply with requirements of Section 03 20 00.

2.03 CONCRETE MATERIALS

A. Cement: ASTM C150/C150M,Type I - Normal Portland type.

1. Acquire cement for entire project from same source.

B. Air Entraining Portland Cement: ASTM C 150, Type 1A.

C. Fine and Coarse Aggregates: ASTM C33/C33M.

1. Acquire aggregates for entire project from same source.

D. Fly Ash: ASTM C618, Class C.

E. Calcined Pozzolan: ASTM C618, Class C.

F. Water: Clean and not detrimental to concrete in accordance with ASTM C1602/C1602M.

2.04 ADMIXTURES

A. Except for air entraining and water reducing, admixtures are not permitted without approval of Architect/Engineer. Submit manufacturer's information to A/E with historical stress testing.

B. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.

C. Air Entrainment Admixture: ASTM C260/C260M. Use for exterior walls, exterior slabs, walks, platforms, ramps, steps, portions of parking ramp and other concrete exposed to freezing and thawing. Air entrainment not allowed at interior floor slabs.
   1. Products:
      a. Darex II - W.R. Grace.
      b. AEA 92S - Euclid.
      c. Catexol AE 260 - Axim Concrete Technologies.
      d. General Resource Technology - Polychem SA-50.
      e. MasterAir Series – Master Builders Solutions.
      f. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

D. Mid-Range Water Reducing: ASTM C494/C494M Type A or Type F.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Daracem 65 - W.R. Grace.
      b. Eucon MR - Euclid.
      c. Catexol 3500N“ – Axim Concrete Technologies.
      d. General Resource Technology - KB-1200.
      e. MasterPolyheed Series" - Master Builders Solutions.
      f. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

E. High Range Water Reducing Admixture (Super Plasticizer: ASTM C494/C494M Type F or type G.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Daracem 19 - W.R. Grace.
      b. ADVA 100 - W.R. Grace & Co.
      c. Catexol 1000SP-MN – Axim Concrete Technologies.
      d. General Resource Technology - Melchem Superplasticizer.
      e. MasterRheobuild 1000 or MasterGlenium Series - Master Builders Solutions.
      f. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

F. Water Reducing, Non-Chloride Accelerating Admixture: ASTM C494/C494M Type C or E.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Polarset - W.R. Grace.
      b. Catexol 2000RHE – Axim Concrete Technologies.
      c. General Resource Technology - Polychem Superset.
      d. MasterSet AC 534 or MasterSet FP 20 - Master Builders Solutions.
      e. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

G. Water Reducing and Retarding Admixture: ASTM C494/C494M Type D.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. Daratard 17 - W.R. Grace.
      b. Eucon Retarder 100 - Euclid.
      c. Catexol 1000R – Axim Concrete Technologies.
      d. MasterSet R Series or MasterSet DELVO Series - Master Builders Solutions.
      e. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

H. Water Reducing Admixture: ASTM C494/C494M Type A.
   1. Products: Subject to compliance with requirements, provide one of the following:
      a. WRDA 82 - W.R. Grace.
      b. MasterPozzolith Series – Master Builders Solutions.
      c. Catexol 1000N – Axim Concrete Technologies.
      d. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.05 ACCESSORY MATERIALS

A. Underslab Vapor Retarder:
   1. Sheet Material: ASTM E1745, Class A; stated by manufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. Single-ply polyethylene is prohibited.
   2. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, prefabricated boots, etc., for sealing seams and penetrations.
   3. Products:
      a. Fortifiber Building Systems Group: Moistop Ultra 15. www.fortifiber.com.
      b. Inteplast Group; Barrier-Bac VB-350: www.barrierbac.com.
      c. ISI Building Products; Viper VaporCheck II 15-mil (Class A): www.isibp.com.
      d. Stego Industries, LLC; Stego Wrap 15 mil: www.stegoindustries.com.
      e. W. R. Meadows, Inc; PERMINATOR Class A - 15 mils (0.38 mm): www.wrmeadows.com.
      f. Vaporblock VB15 by Raven Industries: www.vaporblock.com.
      g. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

B. Non-Shrink Cementitious Grout: Premixed compound consisting of nonmetallic aggregate, cement, water reducing and plasticizing agents.
   1. Grout: Comply with ASTM C1107/C1107M.
   2. Minimum Compressive Strength at 48 Hours, ASTM C109/C109M: 2,000 pounds per square inch.
   3. Minimum Compressive Strength at 28 Days, ASTM C109/C109M: 8000 pounds per square inch.
   4. Flowable Products:
      a. Five Star Products, Inc; Five Star Fluid Grout 100: www.fivestarproducts.com.
      b. W. R. Meadows, Inc; 588-10K: www.wrmeadows.com.
      c. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.
   5. Low-Slump, Dry Pack Products:
      a. Five Star Products, Inc; Five Star Grout: www.fivestarproducts.com.
      b. SpecChem, LLC; SC Multipurpose Grout: www.specchemllc.com.
      c. W. R. Meadows, Inc; PAC-IT: www.wrmeadows.com.
      d. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

C. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf.

D. Moisture-Retaining Cover: ASTM C171; clear polyethylene, white polyethylene, or white burlap-polyethylene sheet.

E. Bond Breaker: 4 mil plastic, 15# building paper, or vapor retarder returned up on wall.

F. Drainage Gravel: Pea gravel, natural stone, washed free of clay, shale and organic matter.
   1. Filter Fabric: 6.0 oz. Non-Woven, Needle-Punched Polypropylene Fabric.

2.06 BONDING AND JOINTING PRODUCTS

A. Latex Bonding Agent: Non-redispersable acrylic latex, complying with ASTM C1059/C1059M, Type II.
   1. Products:
      a. Kaufman Products Inc; SureBond: www.kaufmanproducts.net.
      b. SpecChem, LLC; Strong Bond Acrylic Bonder: www.specchemllc.com.

c. W. R. Meadows, Inc; ACRY-LOK: www.wrmeadows.com.
d. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

B. Epoxy Bonding System:
1. Products:
a. Dayton Superior Corporation; Slow Set Bonding Agent: www.daytonsuperior.com.
b. Kaufman Products Inc; SurePoxy HM EPL: www.kaufmanproducts.net.
c. Kaufman Products Inc; SurePoxy HM Class B: www.kaufmanproducts.net.
d. SpecChem, LLC; SpecPoxy 1000, SpecPoxy 2000, SpecPoxy 3000, or SpecPoxy 3000FS: www.specchemllc.com.
e. W. R. Meadows, Inc; Rezi-Weld Gel Paste, Rezi-Weld Gel Paste State, Rezi-Weld 1000: www.wrmeadows.com.
f. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

C. Slab Isolation Joint Filler: 1/2-inch thick, height equal to slab thickness, with removable top section forming 1/2-inch deep sealant pocket after removal.
1. Material: ASTM D8139, semi-rigid, closed-cell polypropylene foam.
2. Products:
a. Nomaco, Inc; Isoflex: www.nomaco.com.
b. Sakrete: Concrete Expansion Joint. www.sakrete.com.
c. Quikrete: Concrete Expansion Joint. www.quikrete.com.
d. Greenstreak: Polypropylene Expansion Board with Expansion Board Cap. www.greenstreak.com.
e. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

D. Slab Construction Joint Devices: Combination keyed joint form and screed, galvanized steel or plastic, with minimum 1 inch diameter holes for conduit or rebars to pass through at 6 inches on center; ribbed steel stakes for setting. Removable screed cap to form minimum 1/4 inch wide by 3/8 inch deep joint.
1. Provide removable plastic cap strip that forms wedge-shaped joint for sealant installation.
2. Height: To suit slab thickness.
3. Manufacturers:
a. Form-A-Key Concrete Specialties Products: Key-Loc Joint System with #3017 Clean-Strip Cap. www.formakey.com.
b. Greenstreak: Screed Cap. www.greenstreak.com.
c. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.07 CURING MATERIALS

A. Evaporation Reducer: Liquid thin-film-forming compound that reduces rapid moisture loss caused by high temperature, low humidity, and high winds; intended for application immediately after concrete placement.

B. Curing and Sealing Compound, Low Gloss: Liquid, membrane-forming, clear, non-yellowing acrylic; complying with ASTM C1315 Type 1 Class A.
1. Vehicle: Water-based.
2. Solids by Mass: 25 percent, minimum.
3. VOC Content: OTC compliant.
4. Products:
a. Concrete Sealers USA; TS202 Acrylic WB-25 Topical Sealer w/ Low Gloss: www.concretesealersusa.com.
b. Euclid Chemical Company; DIAMOND CLEAR VOX: www.euclidchemical.com.
c. ProSpec: Cure & Seal WB 1315. www.tccmaterials.com.
d. SpecChem; Cure & Seal 25. www.specchemllc.com.
e. Lucas Products: #7200 Cure Seal Water Based. www.rmlucas.com.
f. W. R. Meadows, Inc; VOCOMP-25: www.wrmeadows.com.
g. TK Products; TK TRI-SEAL 1315. www.tkproducts.com.
h. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

C. Moisture-Retaining Sheet: ASTM C171.
   1. Curing paper, regular.
   2. Polyethylene film, white opaque, minimum nominal thickness of 4 mil, 0.004 inch.
   3. White-burlap-polyethylene sheet, weighing not less than 3.8 ounces per square yard.

D. Water: Potable, not detrimental to concrete.

2.08 CONCRETE MIX DESIGN

A. Proportioning Normal Weight Concrete: Comply with ACI PRC-211.1 recommendations.
   1. Replace as much Portland cement as possible with fly ash, ground granulated blast furnace slag, silica fume, or rice hull ash as is consistent with ACI recommendations.

B. Admixtures: Add acceptable admixtures as recommended in ACI PRC-211.1 and at rates recommended or required by manufacturer.

C. Normal Weight Concrete: Design all concrete mixes from the following table of requirements:

	W/C Max	%AIR +-1%	Max Slump (inches)	MIN f'c(psi) @ 28 days
1. Concrete				
a. Footings	0.55		4	See Structural Notes
b. Piers, Walls	0.50		4	See Structural Notes
c. Slabs on grade to recieve fluid applied flooring.	0.50		4	See Structural Notes
2. Concrete exposed to weather				
a. Piers, Walls	0.50	6	4	See Structural Drawings
b. Slabs shown on structural sheets (incl. stoops and slab under pavilion)	0.50	6	4	See Structural Drawings
3. Concrete shown on civil drawings (excluding stoops)	see Division 32 specifications			

   1. Fly Ash Content: Maximum 20 percent of cementitious materials by weight when used alone.
      a. At walls, piers, interior slab on grade, bond beams and metal pan stairs: A maximum of 50 percent total replacement of portland cement with fly ash at a 1:1 ratio; up to 350 pounds, with a maximum 20 percent fly ash.
      b. At exposed columns, exterior slab on grade and miscellaneous non-scheduled concrete: A maximum of 20 percent total replacement of Portland cement with fly ash at a 1:1 ratio where freeze-thaw durability and exposure to deicers is likely; up to 350 pounds, with a maximum 20 percent fly ash.
   2. Calcined Pozzolan Content: Maximum 10 percent of cementitious materials by weight.
      a. Note: Total of combination of flyash and calcined pozzalon shall not exceed 20 percent.
   3. Maximum Coarse Aggregate Size: For footings 1 1/2 inch.

4. Maximum Coarse Aggregate Size: For slabs, walls, precast plank topping and piers: 3/4 inch.

2.09 MIXING

A. Transit Mixers: Comply with ASTM C94/C94M except where requirements in table above are more restrictive.

B. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.02 PREPARATION

A. Inspect all excavations and/or prepared subgrade for suitability of pouring concrete. No standing water, organic material, debris, etc., should be present. Slab subgrade should be compacted as specified and have optimum moisture content.

B. Points of concrete placement shall be clean, damp but not wet surfaces, or properly consolidated fills, but never soft mud, dry porous earth, or frozen ground.

C. Verify that forms are clean and free of rust before applying release agent.

D. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.

E. Contractor shall make certain that references to all related sections for floor finishes and their substrate finish requirements are complied with including but not limited to; mix/slump, flatness, curing/sealing compounds, curing timeframe, aggregate colors etc.

F. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in according to bonding agent manufacturer's instructions.
   1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.
   2. Use latex bonding agent only for non-load-bearing applications.

G. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Comply with ASTM E1643. Lap joints minimum 6 inches. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Repair damaged vapor retarder before covering.
   1. Vapor Retarder Over Granular Fill: Install compactible granular fill before placing vapor retarder as indicated on drawings. Do not use sand.
   2. Repair underslab vapor barrier damaged during placement of concrete reinforcing. Repair with vapor retarder material; lap over damaged areas minimum 6 inches and seal watertight.

3.03 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS

A. Comply with requirements of ACI SPEC-301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.

3.04 PLACING CONCRETE

A. Place concrete in accordance with ACI PRC-304.

B. Place concrete for floor slabs in accordance with ACI PRC-302.1.

C. Ensure reinforcement, inserts, waterstops, and embedded parts will not be disturbed during concrete placement.

D. **Addition of water or admixtures to concrete on site without written approval of Architect/Engineer is prohibited and shall be grounds for rejection.**

E. Convey concrete from mixing to point of placement rapidly and continuously until unit of operation is completed using methods which prevent segregation or loss of ingredients. Deposit at or very near final placement position. Use chutes such that the concrete slides in the chute and does not flow. For vertical drops more than 5 feet, utilize tremies or similar devices to prevent segregation of concrete ingredients. Do not convey or handle concrete in containers or devices made of aluminum.

F. Place concrete continuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface mortar, by sandblasting or high-pressure water jetting.

G. Consolidate placed concrete by vibration so the concrete is thoroughly worked around reinforcement, around embedded items, and into corners of forms, eliminating air or stone pockets which may cause honeycombing, pitting, or planes of weakness. Use mechanical vibrators with a minimum frequency of 7,000 revolutions per minute, operated by competent workmen. Use of vibrators to move concrete within forms is not permitted. Insert and withdraw vibrators at many points, from 18 to 30 inches apart for 5 to 10 seconds duration. Keep a spare vibrator on the Project Site during all concrete placement operations. Use vibrators of internal type, apply directly to concrete, not through formwork, except in sections too thin to permit insertion of internal type, in which case, employ use of form vibrators approved by Architect/Engineer.

H. Finish floors level and flat, unless otherwise indicated, within the tolerances specified below.

I. Concrete in vertical members shall have been in place at least four hours before concrete in horizontal or vertical members resting thereon is placed.

J. Placing concrete shall be continuous between vertical construction joints. Make vertical construction joints at approximately the center of a panel or beam, in a straight line to the full depth. See Project Drawings for location of architecturally delineated construction joints.

3.05 SLAB JOINTING

A. Locate joints as indicated on drawings.

B. Anchor joint fillers and devices to prevent movement during concrete placement.

C. Isolation Joints: Use preformed joint filler with removable top section for joint sealant, total height equal to thickness of slab, set flush with top of slab.
   1. Install wherever necessary to separate slab from other building members, including columns, walls, equipment foundations, footings, stairs, manholes, sumps, and drains.
   2. Conform to Section 07 92 00 for finish joint sealer requirements.

D. Contraction Joints:
   1. Interior:
      a. Saw Cut Contraction Joints: Saw cut joints as soon as joints can be cut without joint deformation; use 3/16 inch thick blade and cut at least 1 inch deep but not less than one quarter (1/4) the depth of the slab. Apply specified sealant from 07 92 00 flush with floor.
   2. Exterior:
      a. Hand tool exterior joints to provide a chamfered edge from top of slab to joint.

E. Construction Joints: Where not otherwise indicated, use metal combination screed and key form, with removable top section for joint sealant.

F. Separate slabs on grade from vertical surfaces with bond break of #15 felt, 6 mil poly or slab vapor barrier.

3.06 STRUCTURAL COMPONENT JOINTS

A. Construction joints for walls and continuous wall footings shall have reinforcing cross joints so that shear keys will not be necessary. Construction joints will be located at Contractor's

discretion and will be at such locations that each section can be filled in one continuous operation.

B. Construction joints for concrete beams and structural slabs shall be at mid-span. Reinforcing shall extend through joint. No horizontal joint will be allowed.

C. Construction joints for concrete columns shall be at underside of each floor level.

3.07 FLOOR FLATNESS AND LEVELNESS TOLERANCES

A. A Contractor hired testing agency, as specified in General Requirements, will inspect finished slabs for compliance with specified tolerances.

B. Minimum F(F) Floor Flatness and F(L) Floor Levelness Values:
   1. Exposed to View and Foot Traffic: F(F) of 20; F(L) of 15, on-grade only.
   2. Under Thin Resilient Flooring and Thinset Tile: F(F) of 35; F(L) of 25, on-grade only.

C. Measure F(F) Floor Flatness and F(L) Floor Levelness in accordance with ASTM E1155/E1155M (ASTM E1155M), within 48 hours after slab installation; report both composite overall values and local values for each measured section.

D. Correct the slab surface if composite overall value is less than specified and if local value is less than two-thirds of specified value or less than F(F) 13/F(L) 10.

E. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same process.

3.08 EXTERIOR CONCRETE WORK

A. See requirements on civil drawings and specifications for site concrete except for founcations and stoop slabs.

B. Stoops and exterior concrete shown on structural drawings:
   1. Construct 4 inches thick in panels with control and expansion joints spaced as indicated below.
   2. Control Joints: Not more than 1/8 inch in width with chamfered edges, form to a depth of 1/4 of walk thickness. Locate where indicated.
   3. Expansion Joints: 1/2 inch thick expansion joint filler. Construct between walk and any abutting masonry or concrete. Construct transverse expansion joints at uniform intervals of not more than 40 feet. Maintain 1/2 inch deep recess. Fill with sealant specified in 07 90 05.
   4. Exterior Slab Finish (including stoop slabs and slab under Pavilion 100):
      a. Match finish (fine hair broom) as specified in Section 32 13 13 Portland Cement Concrete Paving 3.08.

3.09 COLD WEATHER REQUIREMENTS

A. Cold weather requirements govern when minimum ambient temperature is expected to fall below 40 degrees F.
   1. Concrete will not be placed on frozen ground.
   2. Mix, place, protect and cure concrete in strict accordance with ACI 306 R-88 "cold Weather Concreting".

3.10 HOT WEATHER REQUIREMENTS

A. Hot weather requirements govern when maximum ambient temperature is expected to rise above 85 degrees F.

B. Mix, place, protect and cure concrete in strict accordance with ACI 305R.

C. Admixtures proposed for construction under these conditions, such as water-reducing retarders, shall be tested thoroughly with concrete mixes for this job. All aspects of concrete construction applicable shall be considered before approval. Submit specifications on retarder to Engineer for approval with concrete mix designs.

D. Batch, mix and transport concrete per ACI 304R.

E. Water curing will be required for hot weather construction.

3.11 CONCRETE FINISHING

A. Concrete Slabs: Finish to requirements of ACI PRC-302.1 and as follows:
   1. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI 302.1R thin floor coverings include fluid applied flooring and thin set ceramic tile. High gloss finish from power trowel not acceptable.
   2. Surfaces to be Sealed: Troweled finish.

B. Exterior Foundation Wall Surface Form Finish: Rub down or chip off fins or other raised areas 1/4 inch or more in height. Fill tie break-off holes with grout flush with wall.

C. Exposed Form Finish: Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
   1. Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.
   2. Other Surfaces to Be Left Exposed: Trowel as described in ACI PRC-302.1, minimizing burnish marks and other appearance defects.

3.12 CURING AND PROTECTION

A. Moisture cure interior slabs. Exception; where curing/sealing compounds are indicated.

B. Comply with requirements of ACI PRC-308. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.

C. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
   1. Normal concrete: Not less than seven days.
   2. High early strength concrete: Not less than four days.

D. Formed Surfaces: Cure by moist curing with forms in place for full curing period.

E. Interior Slab Surfaces Not in Contact with Forms:
   1. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water-fog spray or saturated burlap.
   2. Final Curing: Begin after initial curing but before surface is dry.
      a. Moisture-Retaining Cover: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches and sealed by waterproof tape. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

F. Exterior Slab Surfaces: Cure as indicated in Section 32 13 13 Portland Cement Concrete Paving paragraph 3.09.

3.13 FIELD QUALITY CONTROL

A. An Owner hired testing agency will perform field quality control tests, as specified in General Requirements.

B. Provide free access to concrete operations at project site and cooperate with appointed firm.

C. Submit proposed mix design of each class of concrete to inspection and testing firm for review prior to commencement of concrete operations.

D. Record time, place, mix design, quantity, slump, concrete temperature, air temperature and weather conditions, cylinders taken, date shoring is removed, curing and other data pertaining to concrete placement.

E. Tests of concrete and concrete materials may be performed at any time to ensure compliance with specified requirements.

F. Compressive Strength Tests: ASTM C39/C39M. For each test, mold and cure four concrete test cylinders. Obtain test samples for first 50 cu yd or less of each class of concrete placed. Cast one set of four test cylinders for each additional 100 cu. yd.
   1. Test one (1) cylinder at 7 days and two (2) cylinders at 28 days and (1) on hold.
   2. For first set of cylinders cast for slab-on-grade, test one (1) cylinder at 3 days. Analyze probable 28 day strength. Inform Architect/Engineer immediately by telephone if there appears to be concern for achieving required 28 day strength.
   3. If reasonable consistency of slump and air tests is recorded on 4 consecutive tests, testing company may reduce requirements to test every 150 cu. yds.

G. Air Entrainment Tests: Perform air entrainment test per ASTM C173/C173M for each compressive strength test of a concrete mix with a requirement for air entrainment.

H. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.

I. Deviation from specifications shall be grounds for rejection.

J. **Addition of water or admixtures to concrete on site without written approval of Architect/Engineer is prohibited and shall be grounds for rejection.**

3.14 MOISTURE TESTING

A. Testing requirements are addressed in Section 09 05 61.

3.15 DEFECTIVE CONCRETE

A. Test Results: The testing agency shall report test results in writing to Architect and Contractor within 24 hours of test.

B. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.

C. Repair or replacement of defective concrete will be determined by the Architect. The cost of additional testing shall be borne by Contractor when defective concrete is identified.

D. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect for each individual area.

END OF SECTION

SECTION 05 73 00

DECORATIVE METAL RAILINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Railing systems.

1.02 RELATED REQUIREMENTS

A. Section 06 10 00 - Rough Carpentry: Wood Substrate.

B. Section 06 73 00 - Composite Decking: Deck Substrate.

1.03 REFERENCE STANDARDS

A. AAMA 2604 - Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels (with Coil Coating Appendix); 2022.

B. ASTM B211/B211M - Standard Specification for Aluminum and Aluminum-Alloy Rolled or Cold Finished Bar, Rod, and Wire; 2019.

C. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes; 2021.

D. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric); 2021.

E. AWS A2.4 - Standard Symbols for Welding, Brazing, and Nondestructive Examination; 2020.

F. AWS B2.1/B2.1M - Specification for Welding Procedure and Performance Qualification; 2021, with Errata (2023).

G. NAAMM AMP 500-06 - Metal Finishes Manual; 2006.

1.04 SUBMITTALS

A. See contract Conditions and General Requirements for procedures.

B. Provide submittal transmittals that include all submittal items identified in each submittal group below.

C. Review Submittals - Preparatory:
   1. Product Data: Submit manufacturer's product data, including description of materials, components, finishes, fabrication details, glass, anchors, and accessories.
   2. Shop Drawings: Indicate railing system elevations and sections, details of profile, dimensions, sizes, connection attachments, anchorage, size and type of fasteners, and accessories. Indicate anchor and joint locations, brazed connections, transitions, and terminations.
      a. Indicate welded connections using standard AWS A2.4 welding symbols. Indicate net weld lengths.
      b. Include design engineer's seal and signature on each sheet of shop drawings.
      c. Include any blocking to be added to the stringer/tread structure for attachment.

D. Review Submittals - Samples:
   1. Samples: Submit one of each item below for each type and condition shown.
      a. Railing: 12-inch long section of handrail showing color, finish, and connection detail.

E. Information Submittals - Preparatory:
   1. Manufacturer's Instructions: Indicate installation.
   2. Designer's qualification statement.

F. Closeout Submittals:
   1. Warranty Documentation: Submit documentation of the manufacturer's warranty.

1.05 QUALITY ASSURANCE

A. Design the work of this section under the direct supervision of a professional engineer experienced in the design of this type of work and licensed in Wisconsin. Provide plans, drawings, documents, specifications and reports for this work that are signed, sealed and dated by the professional engineer who prepared or who directed and controlled the preparation of the written material.

B. Welder Qualifications: Welding processes and welding operators certified in accordance with AWS B2.1/B2.1M within 12 months of scheduled welding work.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials in factory-provided protective coverings and packaging.

B. Protect materials against damage during transit, delivery, storage, and installation at site.

C. Inspect materials upon delivery for damage. Replace damaged items.

D. Prior to installation, store materials and components under cover in dry location.

1.07 FIELD CONDITIONS

A. Ambient Conditions:
   1. Do not install railings until project is enclosed and ambient temperature of space is minimum 65 degrees F and maximum 95 degrees F.

1.08 WARRANTY

A. Section Specific Warranty: Provide manufacturer's standard warranty as described in this section. Document the warranty as defined under the Submittals heading of this section.
   1. Manufacturer's Warranty: Manufacturer's standard term warranty against defects in materials, fabrication, finishes, and installation commencing on Date of Substantial Completion; complete forms in Owner's name and register with manufacturer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Decorative Metal Railings:
   1. ATR Technologies Inc; Aluminum Picket Railing: www.atr-technologies.com.
   2. Azek Building Products, Inc; Impression Rail: www.azek.com.
   3. DuxxBak Composite Decking; Optima Rail Plus: www.duxxbakdecking.com.
   4. Keylink; Standard Surface, Level with square baluster; www.keylinkonline.com.
   5. Superior Aluminum Products, Inc; Series 9P: www.superioraluminum.com.
   6. Substitutions: See contract Conditions and General Requirements for requirements.

2.02 RAILING SYSTEMS

A. General: Factory- or shop-fabricated to suit project conditions, for proper connection to building structure, and in largest sizes practical for delivery to site.

B. Performance Requirements: Applying loads simultaneously not required; design and fabricate railings and anchorages to resist loads without failure, damage, or permanent set, including:
   1. Distributed Load: 50 lbf/ft minimum, applied vertically and horizontally at top of handrail, when tested in accordance with ASTM E935.
   2. Concentrated Loads: 200 lb minimum, applied to handrail horizontally and vertically, in accordance with ASTM E935.
   3. Handrails: Comply with ADA Standards.

C. Joints: Machined smooth with hairline seams; tightly fitted and secured.

D. Field Connections: Provide sleeves to accommodate site assembly and installation.

E. Metal Railing: Engineered, post-supported railing system with metal infill.
   1. Configuration: Guardrail with separate handrail.
   2. Posts: Square or rectangular section aluminum tube, minimum 2 inch by 2 inch, surface mount to treads.
   3. Top & Bottom Rail: Rectangular section aluminum tube.
   4. Hand Rail: Round, aluminum, 1-1/2-inch IPS / 1.9-inch OD diameter, Schedule 40.
      a. Return rail at top and bottom in accordance with ADA requirements.
   5. Decorative flanges for post bases: Collared cover plate without screw holes.
   6. Handrail Brackets: Same metal as railing.
   7. Fasteners: Concealed.
   8. Infill at Picket Railings: Vertical pickets.
      a. Horizontal Spacing: Maximum 4 inches on center.
      b. Material: Aluminum tube.
      c. Shape: Square.
      d. Size: 3/4-inch square, with allowance to 5/8 inch in one direction per manufacturer's system.
      e. Top Mounting: Mechanically attached by internal fittings or welded to underside of top rail.
      f. Bottom Mounting: Mechanically attached by internal fittings or welded to underside of bottom rail.

2.03 MATERIALS

A. Aluminum Components: ASTM B221 or ASTM B221M.
   1. Tubes: Schedule 40 pipe.
   2. Extruded Aluminum: ASTM B221 or ASTM B221M, 6063 alloy, T6 temper.
   3. Aluminum-Alloy Bars: ASTM B211/B211M, 6061 alloy, T6 temper.

2.04 FABRICATION

A. Welded and Brazed Joints: Make visible joints butt tight, flush, and hairline; use methods that avoid discoloration and damage of finish; grind smooth, polish, and restore to required finish.
   1. Ease exposed edges to small uniform radius.

2.05 FINISHES

A. General: Comply with NAAMM AMP 500-06.
   1. Complete mechanical finishes before fabrication. After fabrication, finish joints, bends, abrasions, and surface blemishes to match sheet.
   2. Protect mechanical finishes on exposed surfaces from damage.
   3. Apply organic and anodic finishes to formed metal after fabrication.
   4. Appearance: Limit variations in appearance of adjacent pieces to one-half of range represented in approved samples. Noticeable variations in same piece are not acceptable. Install components within range of approved samples to minimize contrast.

B. Aluminum Finishes:
   1. High-Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.
   2. Color: To be selected by Architect from manufacturer's standard range.

2.06 ACCESSORIES

A. Welding Fittings: Factory- or shop-welded from matching pipe or tube; joints and seams ground smooth.

B. Anchors and Fasteners: Provide anchors, fasteners, and other attachment devices required to attach to structure. Ensure attachment devices are of same material as components unless indicated otherwise.
   1. Steel Fasteners: ASTM F3125/F3125M, Type 1, galvanized in accordance with ASTM A153/A153M.

2. Exposed Fasteners: Flush countersunk screws or bolts; consistent with design of railing; provide only where exposed fasteners are unavoidable.
3. For anchorage to concrete, provide inserts for casting into concrete for bolt anchors.
4. For anchorage to stud walls, provide backing plates for bolt anchors.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate and site conditions are acceptable and ready to receive work.

B. Verify field dimensions of locations and areas to receive work.

C. Notify Architect immediately of conditions that would prevent satisfactory installation.

D. Do not proceed with work until detrimental conditions are corrected.

3.02 PREPARATION

A. Review installation drawings before beginning installation. Coordinate diagrams, templates, instructions, and directions for installation of anchorages and fasteners.

B. Clean surfaces to receive railings. Remove materials and substances detrimental to installation.

3.03 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Install components plumb and level, accurately fitted, free from distortion or defects, and with tight joints, except where necessary for expansion.

C. Anchor securely to structure.

D. Conceal anchor bolts and screws whenever possible. Where not concealed, use flush countersunk fastenings.

3.04 TOLERANCES

A. Comply with ADA requirements.

B. Maximum Variation From Plumb: 1/4 inch per floor level, noncumulative.

C. Maximum Offset From True Alignment: 1/4 inch.

D. Maximum Out-of-Position: 1/4 inch.

3.05 CLEANING

A. Remove protective film from exposed metal surfaces.

B. Metal: Clean exposed metal finishes with potable water and mild detergent in accordance with manufacturer recommendations; do not use abrasive materials or chemicals, detergents, or other substances that may damage material or finish.

3.06 PROTECTION

A. Protect installed components and finishes from damage after installation.

B. Repair damage to exposed, making finishes indistinguishable from undamaged areas.

C. Replace finishes and components that have irreparable damage. Ensure damaged areas are indistinguishable from undamaged finishes and surfaces.

END OF SECTION

SECTION 07 46 23
WOOD SIDING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Engineered wood siding with panels and lap siding for walls and soffits.

B. Trim, flashings, accessories, and fastenings.

1.02 RELATED REQUIREMENTS

A. Applicable provisions of Division 1 govern the work of this section.

B. Section 01 43 39 - Mockups: Additional requirements for mockups.

C. Section 06 10 00 - Rough Carpentry: Building framing and siding substrate.

D. Section 07 25 00 - Weather Barriers: Water-resistive barrier under siding.

E. Section 07 62 00 - Sheet Metal Flashing and Trim: Product requirements for metal flashings and trim between wood siding and masonry.

F. Section 07 92 00 - Joint Sealants: Sealing joints between siding and adjacent construction and fixtures.

1.03 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for procedures.

B. Provide submittal transmittals that include all submittal items identified in each submittal group below.

C. Review Submittals - Preparatory:
   1. Product Data: Provide data indicating materials, fastening methods, jointing details, sizes, finishes, and accessories.
   2. Shop Drawings: Indicate dimensions, layout, joints, construction details, support clips, and methods of anchorage.

D. Review submittals - Samples:
   1. Selection samples: Collection of samples for selection by AE.
   2. Confirmation Samples: Submit two samples 12 x 12 inch in size illustrating surface texture and colors.

E. Closeout Submittals:
   1. Maintenance data.
   2. Warranty Documentation: Submit documentation of manufacturer's warranty that acknowledges the requirements defined in this section.
      a. Provide procurement information including date(s) of procurement, identification of suppliers and contractors involved in the procurement.
      b. Provide manufacturer certification of the warranty that is executed in the Owner's name.

1.04 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in installing products of the type specified in this section with minimum three years of documented experience.

1.05 MOCK-UPS

A. See Section 01 43 39 - Mockups for additional requirements and procedures for mockups.

1.06 FIELD CONDITIONS

A. Do not install siding when air temperature or relative humidity are outside manufacturer's limits.

1.07 WARRANTY

A. See Section 01 78 00 - Closeout Submittals for additional warranty requirements.

B. Section Specific Warranty: Provide manufacturer's customized warranty as described in this section. Document the warranty as defined under the Submittals heading of this section. Provide warranty in conformance with the following:
   1. Manufacturer's Standard Warranty: Transferable limited warranty.
      a. Manufacturer's Extended Substrate Limited Warranty: Fifty years prorated from date of Substantial Completion.
      b. Manufacturer's Extended Finish Limited Warranty: 15 years.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Engineered Wood Siding:
   1. Louisiana Pacific Building Products; 3/8 Lap - LP SmartSide Lap 38 Series: www.lpcorp.com.
   2. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.02 PERFORMANCE REQUIREMENTS

A. Comply with local wind load resistance requirements of ASCE 7.

2.03 WOOD SIDING MATERIALS

A. Board Siding: LP Smartside. Engineered wood cladding. Factory paint finish.
   1. Color to match "Honeycomb" as provided by pre-finisher DiamondKote.
   2. Size: 3/8 inch thick, 8 inch high nominal board with 6 inch lap.
   3. Profile: Lapped.
   4. Surface Texture: Embossed rough sawn cedar.

2.04 TRIM

A. LP Smartside.

B. Strand Trim and Fascia: Same material as cladding:
   1. Finish: Embossed rough-sawn Cedar.
   2. Thickness: 0.910 inch .
   3. Width: As detailed.

2.05 ACCESSORIES

A. Fasteners: ASTM A153, hot-dip galvanized or stainless steel nails with 0.113 inch diameter shank and 0.27 inch diameter head, long enough to achieve 1 1-1/2 inch penetration into structural sheathing and framing.

B. Weather Barrier: As specified in Section 07 25 00.

C. Flashing: Prefinished as specified in Section 07 62 00.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrates are ready to receive work.

B. Verify that water-resistive barrier has been correctly and completely installed over substrate; see Section 07 25 00. Verify flashings are in place.

C. Do not begin until unacceptable conditions have been corrected.

D. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 INSTALLATION

A. Install siding and trim in accordance with manufacturer's instructions.

B. Fasten siding securely in place, level and plumb.
   1. Arrange for orderly nailing pattern, blind nail except over trim.
   2. Install siding for natural shed of water.
   3. Position cut ends over bearing surfaces, and sand cut edges smooth and clean.

C. Seal exposed wood substrates exposed to weather to prevent water accumulation and moisture intrusion.
   1. Seal penetrations.
   2. Seal exposed cuts of siding and trim; use of field-applied coatings is not permitted.

D. Install metal flashings at heads of wall openings and at horizontal intersection of dissimilar materials.

E. Seal joints except the overlapping horizontal lap joints. Seal around penetrations. Paint exposed cut edges.

3.03 ADJUSTING AND CLEANING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

3.04 TOLERANCES

A. Maximum Variation from Plumb and Level: 1/4 inch per 10 feet.

B. Maximum Offset from Joint Alignment: 1/16 inch.

3.05 CLEANING

A. See Section 01 70 00 - Execution and Closeout Requirements for additional requirements.

B. Clean exposed work upon completion of installation; remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving work clean and unmarked, free from dents, creases, waves, scratch marks, or other damage to finish.

3.06 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair, or replace damaged products before Date of Substantial Completion.

END OF SECTION

Page Intentionally Left Blank

SECTION 09 30 00

TILING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Tile for floor applications.

B. Sealant at tile control joints.

C. Non-ceramic trim.

1.02 RELATED REQUIREMENTS

A. Applicable provisions of Division 1 govern the work of this section.

B. Section 04 20 00 - Unit Masonry: CMU joints struck flush at wall tile locations.

C. Section 07 92 00 - Joint Sealants: Sealing joints between tile work and adjacent construction and fixtures.

D. Section 09 05 61 - Common Work Results for Flooring Preparation: Directions for floor flatness testing at large format tile locations.

1.03 REFERENCE STANDARDS

A. ANSI A108.10 - American National Standard Specifications for Installation of Grout in Tilework; 2017 (Reaffirmed 2022).

B. ANSI A108.11 - American National Standard Specifications for Interior Installation of Cementitious Backer Units; 2023.

C. ANSI A108.13 - American National Standard for Installation of Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone; 2005 (Reaffirmed 2021).

D. ANSI A108.19 - American National Standard Specifications for Interior Installation of Gauged Porcelain Tiles and Gauged Porcelain Tile Panels/Slabs by the Thin-Bed Method Bonded with Modified Dry-Set Cement Mortar or Improved Modified Dry-Set Cement Mortar; 2020.

E. ANSI A118.7 - American National Standard Specifications for High Performance Cement Grouts for Tile Installation; 2019.

F. ANSI A118.15 - American National Standard Specifications for Improved Modified Dry-Set Cement Mortar; 2023.

G. ANSI A137.1 - American National Standard Specifications for Ceramic Tile; 2022.

1.04 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for procedures.

B. Review Submittals - Preparatory:
   1. Product Data: Provide manufacturers' data sheets on tile, mortar, grout, and accessories. Include instructions for using grouts and adhesives.

C. Review Submittals - Samples: Provide samples of tile, non-ceramic trim, grout color and texture.

D. Information Submittals - Preparatory:
   1. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
   2. Maintenance Data: Include recommended cleaning methods, cleaning materials, and stain removal methods.

1.05 DEFINITIONS

A. LHT- Large and heavy tile.

B. Lippage- Condition of one edge of a tile is higher than the adjacent tile.

1.06 PERFORMANCE REQUIREMENTS

A. Dynamic Coefficient of Friction: For walkway surfaces, install products with the following values as determined by testing identical products per the DCOF AcuTest as described in ANSI A137.1.
   1. Level Surfaces: 0.42 Minimum.
   2. Step Treads: 0.42 Minimum.

1.07 QUALITY ASSURANCE

A. Maintain one copy of ANSI A108/A118/A136, TCNA (HB), and TCNA (HB-GP) on-site.

B. Manufacturer Qualifications: Company specializing in manufacturing the types of products specified in this section, with minimum five years of documented experience.

C. Installer Qualifications:
   1. Company specializing in performing tile installation, with minimum of five years of documented experience.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Protect adhesives from freezing or overheating in accordance with manufacturer's instructions.

1.09 FIELD CONDITIONS

A. Do not install solvent-based products in an unventilated environment.

B. Maintain ambient and substrate temperature above 50 degrees F and below 100 degrees F during installation and curing of setting materials.

PART 2 PRODUCTS

2.01 TILE

A. Manufacturers: Refer to Master Color Schedule on ID drawings for product selection.

2.02 TRIM AND ACCESSORIES

A. Non-Ceramic Trim: Satin brass anodized extruded aluminum, style and dimensions to suit application, set with tile mortar or adhesive.
   1. Products:
      a. Refer to Master Color Schedule on ID Drawings for product selection basis of design.
      b. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.03 SETTING MATERIALS

A. Improved Latex-Portland Cement Mortar Bond Coat for Large and Heavy Tile: ANSI A118.15.
   1. Applications: Use this type of bond coat where indicated and where no other type of bond coat is indicated.
   2. Products:
      a. Custom Building Products; Complete Contact-LFT Premium Rapid Setting Large Format Tile Mortar, with Multi-Surface Bonding Primer: www.custombuildingproducts.com.
      b. LATICRETE International, Inc; 4-XLT Rapid: www.laticrete.com.
      c. Mapei Corporation[<>]: Ultraflex LFT Rapid. www.mapei.com.
      d. Merkrete, by Parex USA, Inc; Merkrete 720 Marble Pro: www.merkrete.com.
      e. ProSpec, an Oldcastle brand; Medium Bed Permaflex 550: www.prospec.com.
      f. TEC, an H.B. Fuller Construction Products Brand; Ultimate Large Tile Mortar: www.tecspecialty.com.
      g. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.04 GROUTS

A. High Performance Polymer Modified Grout: ANSI A118.7 polymer modified cement grout.
   1. Applications: Use this type of grout where indicated and where no other type of grout is indicated.

2. Use sanded grout for joints 1/8 inch wide and larger; use unsanded grout for joints less than 1/8 inch wide.
    a. At large format tile install wider grout joints as required by industry standards.
3. Color(s): As selected by Architect from manufacturer's full line.
4. Products:
    a. LATICRETE International, Inc; LATICRETE PERMACOLOR Grout: www.laticrete.com.
    b. Merkrete, by Parex USA, Inc; Merkrete Pro Grout: www.merkrete.com.
    c. Mapei; Keracolor Ultracolor Plus FA. www.mapei.com.
    d. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

2.05 MAINTENANCE MATERIALS

A. Tile Sealant: Gunnable, silicone, siliconized acrylic, or urethane sealant; moisture and mildew resistant type.
1. Applications: Tile control and expansion joints.
2. Color(s): As selected by Architect from manufacturer's full line.
3. Products:
    a. ARDEX Engineered Cements; ARDEX SX: www.ardexamericas.com.
    b. LATICRETE International, Inc; LATICRETE LATASIL: www.laticrete.com.
    c. Mapei; Mapesil T. www.mapei.com.
    d. General Electric: Sanitary 1700 Sealant.
    e. Dow Corning Corporation: Silicone 786 mildew resistant.
    f. Pecora Corporation: 898 Sanitary Silicone Sealant.
    g. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

B. Grout Sealer: Liquid-applied, moisture and stain protection for existing or new Portland cement grout.
1. Composition: Water-based colorless silicone.
2. Products:
    a. Merkrete, by Parex USA, Inc; Merkrete Revive: www.merkrete.com.
    b. Miracle Sealants Company: 511 Impregnator: www.miraclesealants.com.
    c. Gundlack Grout Sealer GS02 or GW09.
    d. Custom Building Products: TileLab Grout and Tile Sealer.
    e. Mapei: UltraCare Grout Sealer. www.mapei.com.
    f. Substitutions: See Section 01 25 00 - Substitution Procedures for requirements.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that sub-floor surfaces are smooth and flat within the tolerances specified for that type of work and are ready to receive tile. Refer to Section 09 05 61 for floor flatness guidelines.

B. Verify that subfloor surfaces are dust free and free of substances that could impair bonding of setting materials to subfloor surfaces.

C. Cementitious Subfloor Surfaces: Verify that substrates are ready for tiling installation by testing for moisture and alkalinity (pH).
1. Test in accordance with Section 09 05 61.
2. Obtain instructions if test results are not within limits recommended by tiling material manufacturer and setting material manufacturer.

D. Verify that required floor-mounted utilities are in correct location.

3.02 PREPARATION

A. Protect surrounding work from damage.

B. Vacuum clean surfaces and damp clean.

C. Seal substrate surface cracks with filler.

3.03 INSTALLATION - GENERAL

A. Install tile and grout in accordance with applicable requirements of ANSI A108.1a through ANSI A108.19 , manufacturer's instructions, and TCNA (HB) recommendations.

B. Lay tile to pattern indicated. Do not interrupt tile pattern through openings. Large format tile shall have a 33 percent offset bonding pattern.

C. Where required by tile manufacturer install mortar type in thickness as required for large and heavy tile (LHT).
   1. Mortar at large format tile shall be installed with notched trowel in one direction to achieve minimum 95% coverage. Circular or other motion application is prohibited.
   2. Apply full bed of mortar to backside of large format tile.

D. At large format tile, in accordance to ANSI A108.02, grout joints shall be at least three times the actual facial variation of the tile, but never less than 1/16 inch.

E. For large format tile use mechanical edge leveling system to align edges.

F. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.

G. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make grout joints without voids, cracks, excess mortar or excess grout, or too little grout.

H. Form internal angles square and external angles bullnosed.

I. Install non-ceramic trim in accordance with manufacturer's instructions.

J. Sound tile after setting. Replace hollow sounding units.

K. Keep control and expansion joints free of mortar, grout, and adhesive.

L. Coordinate the location of the slab control joint with the concrete contractor. Locate movement in tile directly over concrete control joint.

M. Prior to grouting, allow installation to completely cure; minimum of 48 hours.

N. Grout tile joints unless otherwise indicated.

O. At changes in plane and tile-to-tile control joints, use tile sealant instead of grout, with either bond breaker tape or backer rod as appropriate to prevent three-sided bonding.

P. Apply grout sealer to all joints.

Q. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

3.04 INSTALLATION - FLOORS - THIN-SET METHODS

A. Over interior concrete slab on grade substrates with crack isolation membrane. Install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with polymer modified grout per ANSI A118.7.
   1. Install control joints in tile as recommended by TCNA.

3.05 CLEANING

A. Clean tile and grout surfaces.

3.06 PROTECTION

A. Do not permit traffic over finished floor surface for 2 days after installation.

END OF SECTION

SECTION 12 36 01

CUSTOM FABRICATED STAINLESS STEEL COUNTERTOPS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Custom fabricated stainless steel units, including:
   1. Serving counters installed over casework.
   2. Serving counters supported by wall brackets.
   3. Cap at half-height wall.

1.02 RELATED REQUIREMENTS

A. Applicable provisions of Division 1 govern the work of this section.

B. Division 22: Stainless steel free standing sink unit.

1.03 REFERENCE STANDARDS

A. ASTM A240/A240M - Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications; 2024b.

B. ASTM A269/A269M - Standard Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service; 2022.

C. ASTM A270/A270M - Standard Specification for Seamless and Welded Austenitic and Ferritic/Austenitic Stainless Steel Sanitary Tubing; 2023.

D. ASTM A276/A276M - Standard Specification for Stainless Steel Bars and Shapes; 2024.

E. ASTM A666/A666M - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2024.

F. AWS A5.8M/A5.8 - Specification for Filler Metals for Brazing and Braze Welding; 2019.

G. AWS D1.6/D1.6M - Structural Welding Code - Stainless Steel; 2017, with Amendment (2021).

H. NSF 2 - Food Equipment; 2022.

I. SMACNA (KVS) - Kitchen Ventilation Systems and Food Service Equipment Fabrication and Installation Guidelines; 2001.

J. SMACNA (SRM) - Seismic Restraint Manual Guidelines for Mechanical Systems; 2024.

1.04 SUBMITTALS

A. See contract Conditions and General Requirements for procedures.

B. Provide submittal transmittals that include all submittal items identified in each submittal group below.

C. Review Submittals - Preparatory:
   1. Product Data: Submit manufacturer's data sheets on each manufactured product to be used, including:
      a. Preparation instructions and recommendations.
      b. Storage and handling requirements and recommendations.
      c. Installation methods.
   2. Shop Drawings: Submit floor plans, elevations, cross-sections, and construction details for fabricated units specified, including:
      a. Layout and anchorage of equipment and accessories, including clearances for maintenance and operation and required electrical or plumbing connections.
      b. Size, type, and location.

D. Information Submittals - Preparatory:
   1. Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.05 QUALITY ASSURANCE

A. Manufacturer/Fabricator Qualifications: Company specializing in manufacture of commercial food services equipment with minimum three years documented experience and NSF certified for type of equipment specified.

B. Welder Qualifications: Welding processes and welding operators qualified in accordance with AWS A5.8M/A5.8, AWS D1.6/D1.6M, and no more than 12 months before start of scheduled welding work.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver fixed equipment that is not to be integrated into structure until after completion of finished ceilings, floor and walls, painting, and lighting.

B. Store products in manufacturer's unopened packaging until ready for installation.

C. Tape fiberboard or plywood to surfaces as required by equipment shape and installation access requirements.

PART 2 PRODUCTS

2.01 MATERIALS

A. Stainless Steel: 18-8 percent chromium-nickel composition, minimum; alloy Type 302, 304, or 316; No. 4 - Brushed finish on exposed surfaces.
   1. Sheets: ASTM A240/A240M or ASTM A666/A666M.
   2. Tubing: ASTM A269/A269M or ASTM A270/A270M; of true roundness with seams and welds ground smooth.
   3. Bars: ASTM A276/A276M.

B. Sound Deadening Material: Bituminous paint or other water resistant mastic.

C. Sealants: As specified in Section 07 92 00.

D. Manufactured Components:
   1. Finish Hardware: Manufacturer’s standard; stainless steel with satin finish.

E. Bolts, Screws, and Rivets: Stainless steel; do not use on exposed surfaces unless specifically indicated or unavoidable.
   1. Bolt and Screw Caps: Provide lock washer and chromium-plated brass/bronze acorn nut to cap visible or exposed threads on inside of fixtures.

F. Anchoring Devices: Stainless steel, of type appropriate for use; provide seismic anchorage as specified in SMACNA (KVS).

2.02 LUMBER MATERIALS

A. Cabinet supports and nailers: Kiln dried hardwood or softwood with a moisture content of 5-10% or 3/4" APA B-B G-2 Exp 1 exterior plywood. Construction lumber (s-dry) not allowed.

2.03 CUSTOM FABRICATED UNITS - GENERAL REQUIREMENTS

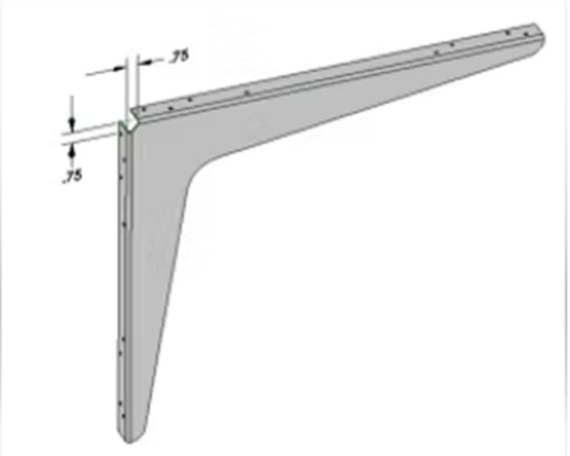
A. See drawings for dimensions and configurations; ensure proper fit by taking field measurements prior to fabrication.

B. Provide fully shop assembled units complying with SMACNA (KVS) and NSF 2 and stainless steel components, unless otherwise indicated.
   1. Where details are referenced as "SMACNA" details, refer to SMACNA (KVS).
   2. Stainless Steel Sheet: For surfaces up to 12 feet in length provide one continuous sheet without joints or welds, including back and end splashes.
   3. Joints: Provide welded joints unless specifically indicated or not possible; do not solder or braze stainless steel; do not use bolts, screws, or other fasteners on work surfaces, food contact surfaces, or wet surfaces.
   4. Sound Deadening: Apply sound deadening material to accessible internal surfaces of metal work and underside of metal counters and sinks.

C. Counter: Stainless steel, 14 gage, 0.0747 inch thick, minimum; with underbracing as recommended by SMACNA (KVS), and turned down edges.

D. Counter and Wall Cap Edges: Provide finished edge on all open sides; close open ends down to bottom edge of turn down; if not otherwise indicated provide bullnose edges.
   1. Turned Down Edges: SMACNA Figure 2-3 Detail C; 1-1/2 inch turn down at 90 degrees, with 1/2 inch return at 30 degree angle.

E. Support Brackets: Provide stainless steel wall mount brackets to support stainless counter tops where indicated.
   1. Extents: Extend to within 2 inches of the outside edge of the countertop.
   2. Configuration: Provide brackets shaped to allow kneespace / storage space below counter, such as shown in the photo immediately below.



   3. Provide brackets that are load tested at the center of the extended arm to 1500 lbs per pair without permanent deformation of the brackets.
   4. Fasteners: Fasteners for counter brackets to masonry backing walls using approved fasteners.
      a. Size: Nominal 1/4 Diameter.
      b. Spacing: 5 inch max.
      c. Products:
         1) Stainless Steel Titen HD.
         2) Tapcon Anchors with Stainless Steel Head.
         3) Substitutions: See contract Conditions and General Requirements for requirements.
            (a) Submit substitutions for pre-bid approval.

2.04 FABRICATION

A. Joints, Bends, and Edges: Make each joint close fitting, especially butt and contact joints.
   1. Make brake bends free of open-texture or orange peel appearance.
   2. Make sheared edges free of burrs, projections, and fins.
   3. Neatly finish mitered and bullnosed corners with under edge of material ground to uniform condition, without overlapping materials or cracks.

B. Welding: Make each welded joint smooth, ductile, and watertight, without gaps, holes, or discoloration or marring of surface adjacent to welds.
   1. Welding:
      a. Use welding processes and filler metal compatible with material being welded. Do not use carbon arc welding on surfaces that will be exposed to view in finished work.
      b. Grind exposed welds flush with adjacent material; finish and polish to match adjacent surface.
         1) Avoid excessive heating of metal and metal discoloration.

2) When grinding, use iron-free abrasives, wheels, and belts that have not been used on carbon-steel.
3) Remove pits, runs, sputter, cracks, low spots, voids, buckles, and other imperfections.
4) Remove grain of rough grinding by several successively finer polishings until specified finish is attained.

2. When welding sheet, penetrate entire thickness for entire length of joint; make joints flat, continuous and homogeneous with sheet metal without reliance on straps under seams, filling with solder, or spot welding.
3. When stainless steel is joined to dissimilar materials, use stainless steel for fastening devices and welding material.
4. Protection Against Corrosion: Eliminate possibility of corrosion wherever welding occurs on stainless steel, and minimize possibility of carbide precipitation in welding bolts and screws.
5. When welding galvanized steel, thoroughly clean and repair damaged galvanizing and coat welds with polyurethane coating.
6. Where bolts or screws are welded to underside of tops or trim, finish and undepress the exposed side of welds.
7. Coat welds and discolorations that are not exposed to view in finished work with metallic-based paint to prevent the possibility of progressive corrosion of joints, unless welds are ground and polished smooth.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using methods recommended by manufacturer for achieving best result for substrate under project conditions.

3.03 INSTALLATION

A. Install in accordance with fabricator's instructions and recommendations, plumb and level and in proper locations, ready for utility connections.

B. Lay out work in advance to prevent damage to building; cut, fit, and patch where necessary; coordinate work with others.

C. Do not cut or fit units in the field; if adjustments are necessary due to inadequate field measurement prior to fabrication, take unit back to shop and perform modifications there.

D. Do not field weld unless absolutely necessary; weld and grind field joints in accordance with specified fabrication procedures.

E. Securely anchor and attach non-mobile or adjustable-leg equipment to walls, floors, or bases with stainless steel bolts.

3.04 CLEANING

A. Remove masking or protective covering from stainless steel and other finished surfaces.

B. Clean equipment to condition suitable for food preparation use.

3.05 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

SECTION 31 20 00
EARTH MOVING

PART 1 GENERAL

1.01 WORK INCLUDED

A. The CONTRACTOR shall provide all materials, labor, equipment and services necessary for the completion of the work specified in this section.

B. Salvaging Topsoil

C. Unclassified Excavation

D. Excavating, Backfilling, and Compacting for Structure

E. Excavating, Backfilling, and Compacting for Utilities

F. Excavating, Backfilling, and Compacting for Pavement

G. Topsoil Placement

H. Landscape Finish Grading

1.02 REFERENCES

A. ANSI/ASTM D698 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures. Using 5.5 lb Rammer and 12” Drop.``

B. ANSI/ASTM D1556 - Test Method for Density of Soil in Place by Sand-Cone Method.

C. ANSI/ASTM D1557 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10 lb Rammer and 18” Drop.

D. State of Wisconsin Department of Transportation, Division of Highways .Standard Specifications for Highway and Structure Construction, Current Edition.

1.03 EXISTING CONDITIONS

A. Known underground, surface, and aerial utility lines and buried objects are indicated on the drawings. Contact Digger’s Hotline and the OWNER five (5) working days prior to start of demolition and construction.

B. Locate all private utilities; coordinate with OWNER five (5) working days prior to the start of work.

C. Hand expose existing utilities prior to start of work.

1.04 SUBMITTALS

A. Samples: Submit 25 lb sample of each type of fill to testing laboratory, in air-tight containers.

1.05 RECORD DOCUMENTS

A. Accurately record locations of utilities remaining, by horizontal dimensions, elevations or inverts, and slope gradients.

1.06 UNIT PRICES

A. Provide unit prices for the following items with bid (see bid form).

1. Over excavation of unsuitable soils (excavated, hauled and deposited) (Quantity shall be measured in-place).
2. Granular fill (hauled, placed and compacted)(Quantity shall be measured in-place).

PART 2 PRODUCTS

2.01 MATERIALS

A. Topsoil: On site excavated material consisting of loam, silt loam, silty clay loam, or clay loam humus-bearing adapted to sustain plant life. Topsoil shall be graded, free of roots, rocks larger than 1/4”, subsoil, debris, and large weeds.

B. Subgrade: Excavated material, graded, free of clumps larger than 6”, rocks larger than 3”, and debris.

C. Granular Fill: Granular fill material, when required, shall consist of natural sand or a mixture of sand with gravel, crushed gravel, crushed stone or other broken or fragmented material. Granular fill shall meet the requirements of Section 209, Granular backfill of the Standard Specifications for Highway and Structure Construction.

D. Stone Bedding: Stone for Class “B” bedding shall meet requirements of Section 608 Foundation Backfill of State of Wisconsin Department of Transportation, Division of Highways, Standard Specifications for Highway and Structure Construction, Current Edition.

E. Dense Graded Base Course: Dense graded base course shall meet the requirements of Section 305, Dense Graded Base course of Standard Specifications for Highway and Structure Construction for D.O.T. ¾” or 1-1/4” Gradation as per stated on design documents.

PART 3 EXECUTION

3.01 SALVAGING AND SPREADING TOPSOIL

A. Remove materials of horticultural value from topsoil prior to stripping.

B. Disc existing topsoil in two directions prior to stripping topsoil material.

C. Strip topsoil; do not allow topsoil to be mixed with subgrade.

D. Stockpile salvaged topsoil on site for future use.

1. Place silt fence around the base of the topsoil stockpile to prevent sediment runoff if piles withing 100 ft of property lines, waterways, drainage ways, public roads or streets and as per plans.

E. All topsoil shall be removed from grass areas to depths stated on the geotechnical report. If topsoil is not to be utilized in other grass areas within the proposed construction site, it shall be exported from the site.

3.02 UNCLASSIFIED EXCAVATION

A. Excavating

1. Excavate in accordance with design grades and elevations.
2. Do not perform additional excavation without prior written authorization of CIVIL ENGINEER/OWNER.
3. Machine shape banks.
4. Hand trim excavations to remove loose and/or organic matter.
5. Fill over-excavated areas under structure bearing surfaces with stone bedding.
6. Do not disturb soil within canopy line of existing trees or shrubs that are to remain.
7. If necessary to excavate through canopy line, perform work by hand and cut roots encountered with a sharp axe.

B. Overhaul

1. Haul excess material from site and dispose of in a legal manner.

C. Granular Fill

1. Place fill materials in lifts not exceeding 9” in depth in accordance with design grades and contours.

D. Rough Grading

1. Rough grade site to required contours and elevations as required for finish grading and surface treatment.
2. Prior to placing fill material over undisturbed subgrade surfaces, scarify to a minimum depth of 6”.

3.03 EXCAVATING, BACKFILLING, AND COMPACTING FOR UTILITIES

A. Preparation

1. Establish limits of excavation by area and elevation. Designate and identify datum elevation.
2. Set required lines and levels.
3. Maintain existing and established benchmarks, monuments, and other reference points.

B. Utilities

1. Notify utility companies to adjust, relocate, and/or remove lines which are in the way of excavation.
2. CONTRACTOR shall be responsible for maintaining, adjusting, or relocating existing utility lines which are located in the work area. Costs exceeding those covered by utility companies shall be included in CONTRACTOR'S bid.
3. Protect and maintain active utility services exposed by excavation.
4. Remove abandoned utility lines from areas of excavation. Cap, plug, or seal such lines and notify project CIVIL ENGINEER of such work completed.
5. Locate and record abandoned and/or active utility lines adjusted or relocated during construction with the project CIVIL ENGINEER.
6. Gas, electric (including main service, site lighting, conduits, and signage) cable, and telephone construction by others. Coordinate all earthwork activities with respective trades responsible for installation of said utilities.

C. Excavation

1. Excavate in accordance with lines and grades indicated on the plan set documents.
2. Excavate trenches wide enough to enable proper installation of utilities and to allow for inspection. Trim and shape trench bottoms and leave free of irregular lumps and projections.
3. Do not disturb soil within canopy line of existing trees or shrubs that are indicated to remain. If it is necessary to excavate within the canopy line, perform work by hand and cut exposed roots with a sharp axe.
4. When complete with work, request CIVIL ENGINEER to inspect excavations. Correct unauthorized excavation as instructed by CIVIL ENGINEER at no additional cost to OWNER.
5. Stockpile excavated subsoil material for reuse on site. Remove excess or unsuitable excavated subsoil/ topsoil material from site and dispose of it in a legal manner unless otherwise stated on plans.

D. Dewatering Trenches

1. Provide equipment including pumps, piping, and temporary drains required to keep trenches dry during construction.
2. Do not discharge pumped water directly into municipal sewer systems without receiving prior approval. Ensure discharge water does not contain contamination or silt held in suspension.
3. Direct surface drainage away from excavated areas. Control grading in and adjacent to excavations to prevent water running into excavated areas or onto adjacent properties or public thoroughfares.
4. Furnish and operate pumping equipment on a twenty-four (24) hour basis if needed to keep excavated areas free of water until utilities have been placed and backfilled.

E. Backfilling

1. All backfill material shall be on-site material unless granular fill is required by CIVIL ENGINEER/OWNER.
2. Do not start backfilling until utilities have been inspected by project CIVIL ENGINEER.
3. Ensure trenches are not in a frozen condition and are free of debris, snow, ice, or water.

4. Backfill as early as possible to provide time for natural settlement and compaction.
5. Place and compact backfill materials in lifts not exceeding 12”. Use methods so as not to damage or disturb utilities.
6. Maintain optimum moisture content of backfill materials so as to attain required compaction density.
7. Remove excess backfill materials from site.

3.04 EXCAVATING, BACKFILLING, AND COMPACTING FOR ASPHALT/ CONCRETE PAVEMENT

A. Excavation

1. Excavate the subsoil in accordance with grades and elevation required for completion of the work.

B. Backfilling

1. Verify areas to be backfilled are not frozen and are free from debris, snow, ice, and water.
2. Do not backfill over existing subgrade materials which are wet or spongy.
3. Compact existing subgrade materials if densitites are not equal to that specified for backfill materials.
4. Disc subgrade soil if needed to dry out any wet, soft, or spongy areas of existing subgrade in areas prior to base course or fill installation which do not pass loaded truck proof rolls. Discing operations for any one area may extend for 10 days. Days with excessive rain or poor drying conditions as determined by the engineer will not be counted towards the 10 days. Discing shall occur a minimum of once per day. Prior to the completion of the 10 days the contractor must most provide the owner in written a request for additional cost to continue. Any additional discing required after 10 days must be approved by the owner before work proceeds.
5. Backfill as early as possible to provide time for natural settlement and compaction to occur.
6. Provide water if needed to maintain optimum moisture content of backfill materials to meet specified compaction density.

C. Excavation Below Bituminous Paved/Concrete Areas Subgrade, or Buildings

1. Deposits of water-bearing soil, organic topsoil, and subgrade material containing considerable amounts of vegetable matter, or other unsuitable debris shall be removed from the area to receive paved or synthetic surfaces to depths below the proposed finish grade shown on the plans, and/or as direction by the CIVIL ENGINEER. See GEOTECHNICAL BORING Report depicting any existing anticipated depths. Areas of excavation shall be backfilled with on-site suitable material if present. If said suitable material is not present, imported material (approved by CE) shall be imported as part of the base bid. The bottoms of such excavations shall be sloped and graded so that water does not pond in the bottoms of excavated areas.
2. Humus-bearing soils and other excavated materials not suitable for embankment construction shall be disposed of off site in a legal manner.
3. Overexcavation of unsuitable subgrade material discovered during construction under proposed asphalt &/or concrete areas not depicted on geotechnical report or plans shall be deemed as an extra cost.
4. Backfill required for over-excavation of areas discovered during construction under proposed asphalt &/or concrete areas not depicted on geotechnical report or plans shall be clean non-organic fill, stone, or granular material (approved by CE) and deemed as an extra cost.

3.05 TOPSOIL PLACEMENT AS FINISH GRADING

A. Place topsoil in areas where seeding and/or sodding is required to a min thickness of 6” lightly compacted depth, unless otherwise noted on the plans.

B. Place topsoil in relatively dry state, during dry weather.

C. Finish grade topsoil eliminating rough or low areas while maintaining profiles and contour of subgrade and achieving required min 6” compacted depth.

D. Remove roots, debris, rocks larger than 1/4” in size, weeds, and foreign material while spreading.

E. Manually spread topsoil close to trees, fences, buildings, and other objects to prevent damage.

F. Lightly compact topsoil after placement.

G. Leave the stockpile area and site clean and ready for seeding, sodding, or other finish treatment.

3.06 PROTECTION

A. Protect existing features remaining as part of final landscaping.

B. Protect existing and established benchmarks, roads, sidewalks, paving, vegetation, and curbs against damage from equipment and vehicular or foot traffic.

C. Protect excavation areas by shoring, bracing, sheet piling, underpinning, or other methods as needed to prevent cave-ins or loose dirt from falling into excavations.

D. Secure adjacent structures prior to the start of excavation which may be damaged by excavation work, including utility lines and pipe chases.

E. Notify CIVIL ENGINEER of unforeseen subsurface conditions encountered and discontinue work in the area until CIVIL ENGINEER provides notification to resume work.

F. Grade around excavation areas to prevent surface water runoff into excavated areas resulting in pounding.

3.07 COMPACTION REQUIREMENTS

A. Compact all subgrade below proposed bituminous/concrete pavement, buildings or synthetic turf areas, and all utility trenches, to 95% of the Standard Proctor. General green spaces shall be 85% of the Standard Proctor. If geotechnical report recommends more restrictive requirements those standards shall take precedence.

1. Proof roll testing shall also be performed using a fully loaded (20 US tons of material) tandem axle dump truck. The truck shall slowly drive back and forth at approximately 10’-15’ wide intervals apart while the soils are evaluated for deflection / deformation below the rear tires. The truck shall cover the entire area being evaluated. Areas found to deflect more than approximately 1” in depth or leave permanent ruts of 2” or more will be evaluated by site engineer for potential subgrade improvements.

B. The CONTRACTOR shall provide equipment capable of adding measured amounts of moisture to the soil material as determined by moisture-density tests. Where the subgrade or layer of soil material must be moisture conditioned before compaction, uniformly apply required amount of water to the surface of subgrade, or layer of soil material in such manner as to prevent free water from appearing on the surface during or subsequent to compaction operations. Remove and replace soil material that is too wet to permit compaction to 95% of maximum dry density, as established in accordance with ASTM-D1557.

3.08 COMPACTION TESTING

A. Testing of compacted materials will be performed by an independent testing laboratory appointed and paid for by OWNER.

B. The OWNER will pay for the cost of one series of tests for the area being evaluated. The CONTRACTOR shall pay for any additional testing costs as required due to improper performance of work.

C. When work for this section or portions of work are completed, notify the testing laboratory to perform density tests. Do not continue with additional portions of work until test results have been verified.

D. If, during progress of work, tests indicate that compacted backfill materials do not meet specified requirements, remove defective work, replace and retest at no cost to OWNER as directed by the CIVIL ENGINEER.

E. Verify that compacted fills have been tested before proceeding with placement of surface materials.

F. In-field testing shall be in accordance with ASTM D6938 “Density of Soil and Soil-Aggregate in Place by Nuclear Method.” This test correlates to ASTM D-1556 “Density of Soil in Place by the Sand-Cone Method.”

G. The CONTRACTOR shall notify the testing laboratory and the CIVIL ENGINEER a minimum of forty-eight (48) hours in advance of the time compaction testing is required.

3.09 TOLERANCES

A. Top surface of subgrade in proposed grassed areas: Plus or minus 1".

B. Top surface of subgrade in proposed paved areas: Plus or minus 0.5".

C. Top surface of grass athletic fields: Plus or minus 0.5".

D. Finish grade of grass/lawn areas: Plus or minus 0.5".

E. Finish grade of grass athletic fields: Plus or minus 0.25".

F. Finish grade of finish stone of synthetic turf areas: Laser grade (Plus or Minus 0.125")

3.10 FIELD QUALITY CONTROL

A. Testing of granular fill and backfill materials will be performed by an independent testing laboratory appointed and paid for by the OWNER.

B. The OWNER will pay for the cost of one series of tests on areas being inspected. The CONTRACTOR will pay for costs of additional testing required due to improperly performed work.

C. Tests and analysis of fill material shall be performed in accordance with ANSI/ASTM D698 D1557.

D. Compaction testing shall be performed in accordance with ANSI/ASTM D1556, ANSI/ASTM D1557, ANSI/ASTM D6938.

E. If testing indicates that the work does not meet specified requirements, remove work, replace and retest at no cost to OWNER.

3.11 UTILITY LOCATES

A. All required Diggers Hotline locates and private utlity locates shall be ordered and paid for by each contractor requiring the locate service.

END OF SECTION 31 20 00

SECTION 33 11 00
WATER DISTRIBUTION

PART 1 GENERAL

1.01 WORK INCLUDED

A. Connection to existing water at location shown on plans.

B. Water Laterals and appurtenances.

1.02 REFERENCE

A. Standard Specifications for Sewer and Water Construction in Wisconsin, 6th Edition, Public Works Industry Improvement Program, 2835 North Mayfair Road, Milwaukee, WI 53227.

B. AWWA - American Water Works Association Standards

C. ASTM D1785

D. SPS 382 (Wisconsin Plumbing Code)

PART 2 PRODUCTS

2.01 WATER LATERAL PIPE MATERIAL

A. Polyvinyl Chloride Service

1. Polyvinyl Chloride (PVC) pipe Class 150, DR18 conforming to AWWA-C900 and in compliance with the requirements of Chapter 4.6.0 of Standard Specifications for Sewer and Water Construction.

B. Ductile Iron Service

1. Ductile iron water pipe, class 50 meeting the requirements of Chapter 8.18.0 of the Standard Specifications.

C. Copper water Service

1. Type K, soft copper tubing meeting the requirements of ASTM B88.

D. HDPE Water Service

1. HDPE high density polyethylene tubing conforming to the Wisconsin Department of Safety and Professional Services Plumbing Code.

2.02 WATER MAIN SERVICE FITTINGS

A. Corporation Stops

1. Corporation stops shall be Ford, FB-1001. Fittings furnished under these specifications shall conform to ANSI/AWWA C800-01.

B. Tapping Saddles

1. Tapping saddles used with ductile iron pipe shall be Smith Blair, type 313 double strap, with AWWA taper (cc or cs) thread, or equal. For PVC pipe, when specified, the tapping saddle shall be Smith Blair, type 317 or equal. Fittings furnished under these specifications shall conform to ANSI/AWWA C800-01.

C. Curb Stops

1. Curb stops shall be McDonald 4701-T or equivalent, and shall be furnished with a stationary rod of compatible design, made by the same manufacturer as the curb stop.

D. Unions

1. Unions shall be 3-piece brass, with compression connections having a positive indicator to avoid over-tightening.

2. Unions shall be Mueller H-15403, or approved equal.

E. U-Branch, Wyes, Etc.

1. U-branch, wye and other fittings shall be brass, with compression connections having a positive indicator to avoid over-tightening. Fittings shall be produced specifically for water supply applications. Mueller or approved equal.

2.03 POLYETHYLENE FILM ENVELOPE

A. Polyethylene film envelope is not required.

2.04 CONCRETE BUTTRESSES

A. Ready-mixed concrete shall be used.

1. Concrete shall have following characteristics:

Buttresses	
28 day Compressive Strength	B. 2000
Maximum Slump	C. 5”
Air-Entertainment by Volume	D. 4%-7%
Minimum Cement Content	E. 4 bags
Maximum Aggregate	F. 3/4”

2.05 DETECTABLE PIPE WARNING WIRE FOR NON-METALLIC PIPE

A. 14 gauge wire with 0.015” thick vinyl insulation.

B. Moisture, oil and gasoline resistant.

C. Splices either solder or brass clamp wrapped with electrical tape or shrink wrapped.

PART 3 EXECUTION

3.01 CONNECTION TO EXISTING SYSTEM

A. CONTRACTOR shall coordinate with the Municipality prior to filling new watermain.

B. Disinfect and test new main in accordance with Part IV of the Standard Specification for Sewer and Water Construction.

3.02 CONNECTION TO EXISTING WATER

A. Connection of new water to existing shall meet the requirements of Chapter 4.14.0 of Standard specifications. Connection or tap method shall be approved by the Municipality prior to installation

3.03 GATE VALVE AND VALVE BOX INSTALLATION

A. Provide sufficient quantities of crushed stone or rock conforming to the requirements of ASTM C33, Gradation No. 2 over and around the valve to prevent sand blockages of valve bonnet and box.

3.04 PIPE RESTRAINT

A. Concrete buttresses shall meet requirements of Article 4.3.13 of Standard Specification for Sewer and Water Construction, except as modified herein. Water main joints shall be kept free of concrete.

3.05 TRENCH LENGTH

A. Trench shall be backfilled every day. No open trench will be allowed to remain open overnight. Backfill material shall be installed to shed water.

3.06 HYDROSTATIC TEST

A. Test watermain, including valves, in accordance with Section 4.15.0 of the Standard Specifications.

3.07 DETECTABLE WARNING WIRE

A. Install warning wire above pipe for all non-metallic pipe installations.

3.08 SEPARATION FROM SEWERS

A. When water mains cross over sewers, provide a minimum of 12 inches from the bottom of the water main to the top of the sewer.

B. When water mains cross under sewers, provide a minimum of 18 inches from the top of the water main to the bottom of the sewer.

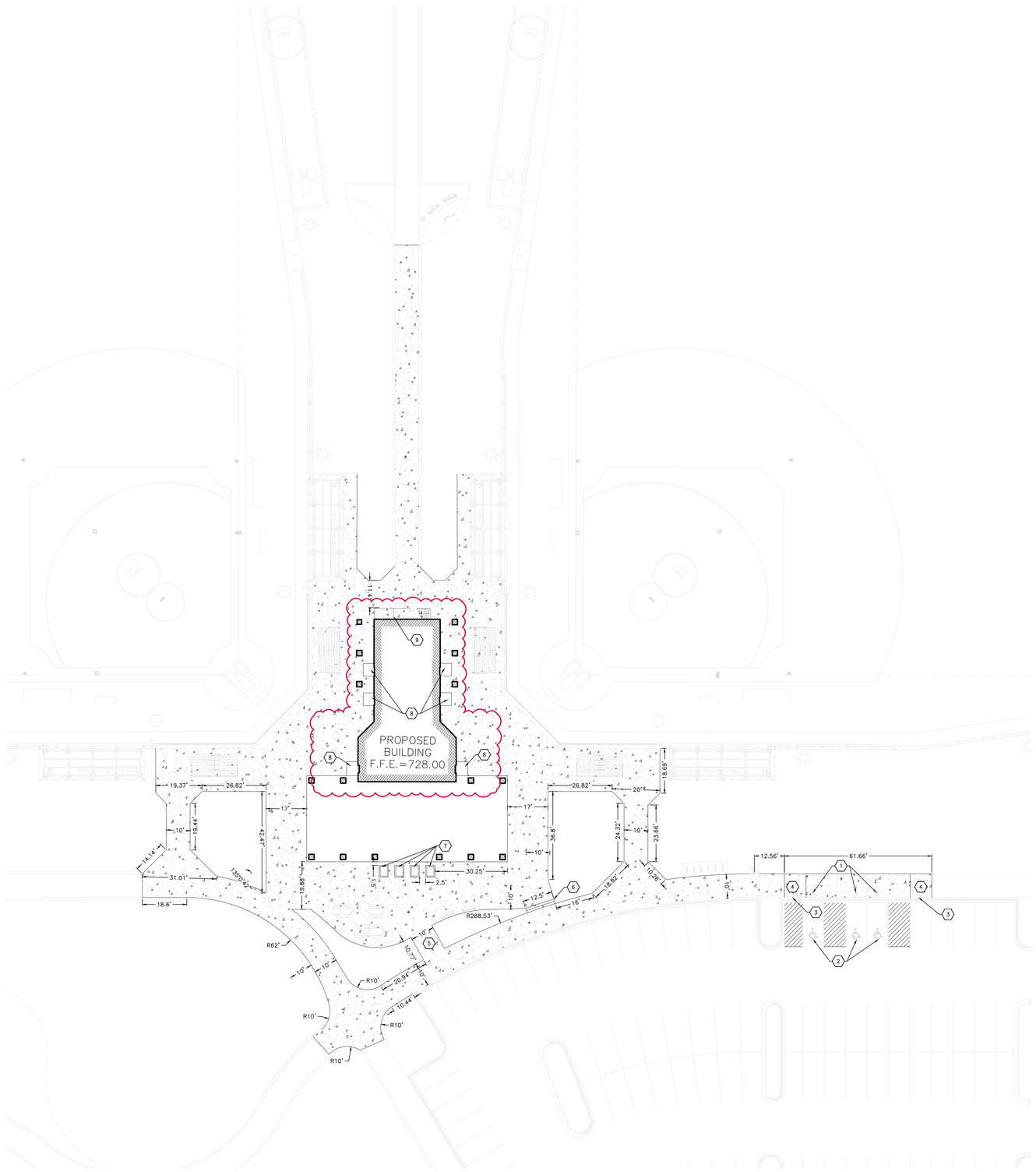
3.09 FIELD QUALITY CONTROL

A. Test water main, including valves, in accordance with Section 4.15.0 of the Standard Specifications

B. Flush and disinfect water system in accordance with Section 382.40(8)(i) of the State of Wisconsin Administrative Code.

END OF SECTION 33 11 00

Page Intentionally Left Blank



GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ALL REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
4. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
5. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
6. BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO THE BID DATE.
7. PRIOR TO STARTING WORK, VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
8. COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
9. PROVIDE PROPER BARRICADES, SIGNS, AND TRAFFIC CONTROL TO MAINTAIN THRU TRAFFIC ALONG ADJACENT STREETS IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS.
10. SIDEWALK JOINTS SHALL BE INSTALLED AS INDICATED OR AS APPROVED BY THE CONSTRUCTION MANAGER.
11. ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED, FERTILIZED, AND CRIMP HAY MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
12. COORDINATE WITH OWNER AND ARCHITECT FOR GRANITE PLAQUE PLACEMENT PRIOR TO INSTALLATION.

(XX) KEYNOTES:

1. ADA PARKING SIGNS — 1 / C400
2. ADA STRIPING — 2 / C400
3. 6" CURB TAPER SECTION — 3 / C400
4. HANDICAP RAMP — 3 / C400
5. ADA ACCESSIBLE ROUTE
6. CONCRETE STEPS (3–6" RISERS)
7. GRANITE PLAQUE (SUPPLIED BY OWNER – CONTRACTOR SHALL INSTALL) — 8 / C400
8. CONCRETE STOOP (SEE STRUCTURAL)
9. CONTRACTOR SHALL EXTEND GAS LINE FROM SOUTH TO THIS METER LOCATION. COORDINATE WITH MECHANICAL AND UTILITY COMPANY. (1)

PAVEMENT HATCH PATTERNS:

PROPOSED STANDARD CONCRETE PAVEMENT — 4 / C400

BENCHMARK:

THE BASE TOPOGRAPHIC MAP FOR THIS DRAWING WAS SURVEYED AND DRAFTED BY OTHERS.

EXISTING CONDITIONS DISCLAIMER:

NOTE THAT THE BASE TOPOGRAPHIC MAP FOR THIS DRAWING WAS SURVEYED AND DRAFTED BY OTHERS. POINT OF BEGINNING WILL NOT BE HELD LIABLE FOR ANY INACCURACIES OR OMISSIONS FROM THE TOPOGRAPHIC MAP/INFORMATION.

0' 20' 40'
1" = 20'

N

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:
Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: LAYOUT PLAN

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: JJL

Key Plan:

BID SET

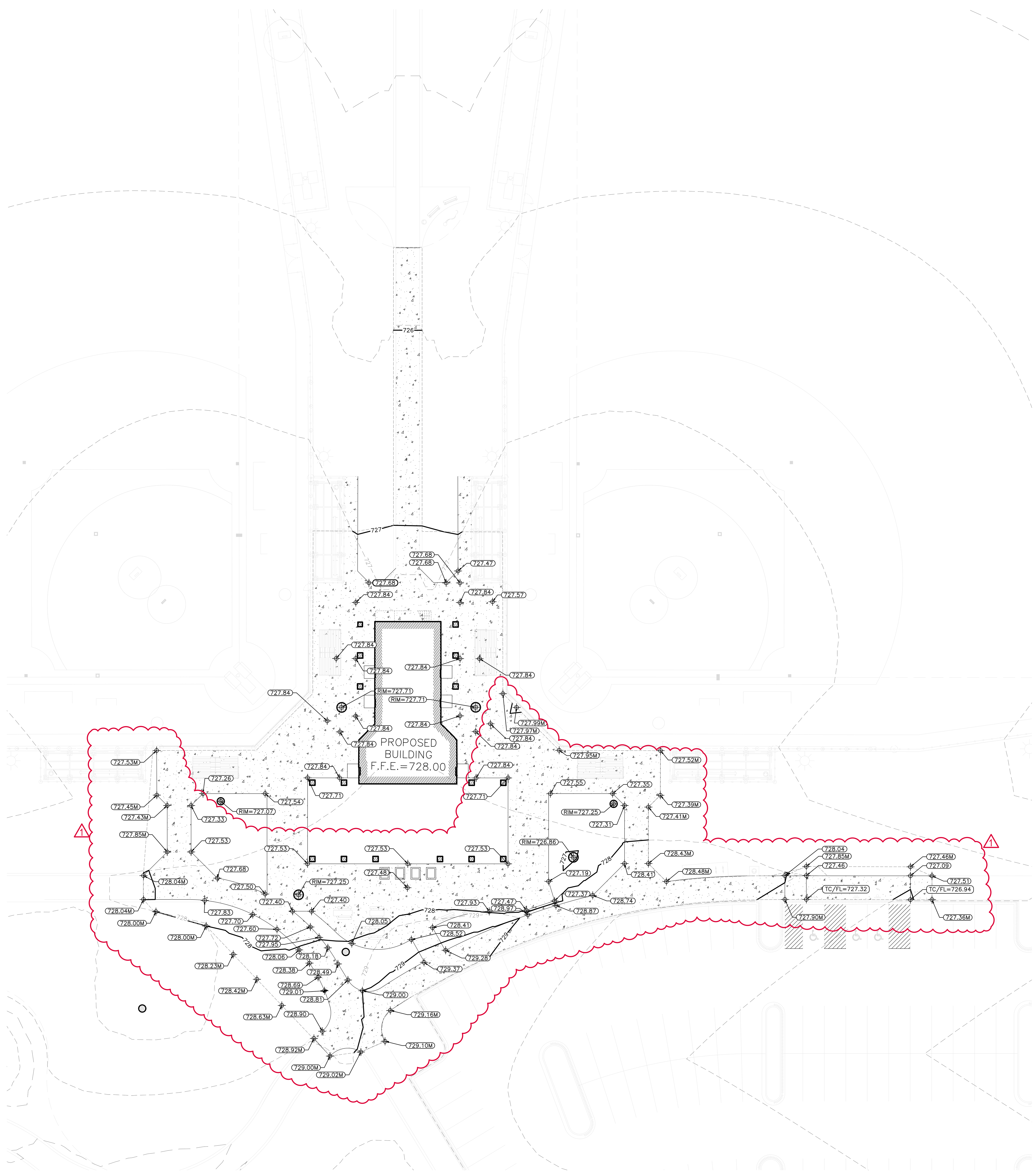
Revisions:

No.	Description	Date
1	Addendum #1	01/08/2026

Graphic Scale: SEE PLAN

Last Update: 12/11/2025

C100



GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION OF 728.0' EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
3. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
4. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
5. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
6. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
7. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
8. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
9. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.

GRADING LEGEND:

EXISTING CONTOUR	712
PROPOSED CONTOUR	712
PROPOSED SPOT ELEVATION	892.26
PROPOSED RIM ELEVATION	RIM=893.56
PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY)	892.05M

BENCHMARK:

THE BASE TOPOGRAPHIC MAP FOR THIS DRAWING WAS SURVEYED AND DRAFTED BY OTHERS.

EXISTING CONDITIONS DISCLAIMER:

NOTE THAT THE BASE TOPOGRAPHIC MAP FOR THIS DRAWING WAS SURVEYED AND DRAFTED BY OTHERS. POINT OF BEGINNING WILL NOT BE HELD LIABLE FOR ANY INACCURACIES OR OMISSIONS FROM THE TOPOGRAPHIC MAP/INFORMATION.

0' 20' 40'
1" = 20'

N

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:
Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **GRADING PLAN**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **JJL**

Key Plan:

BID SET

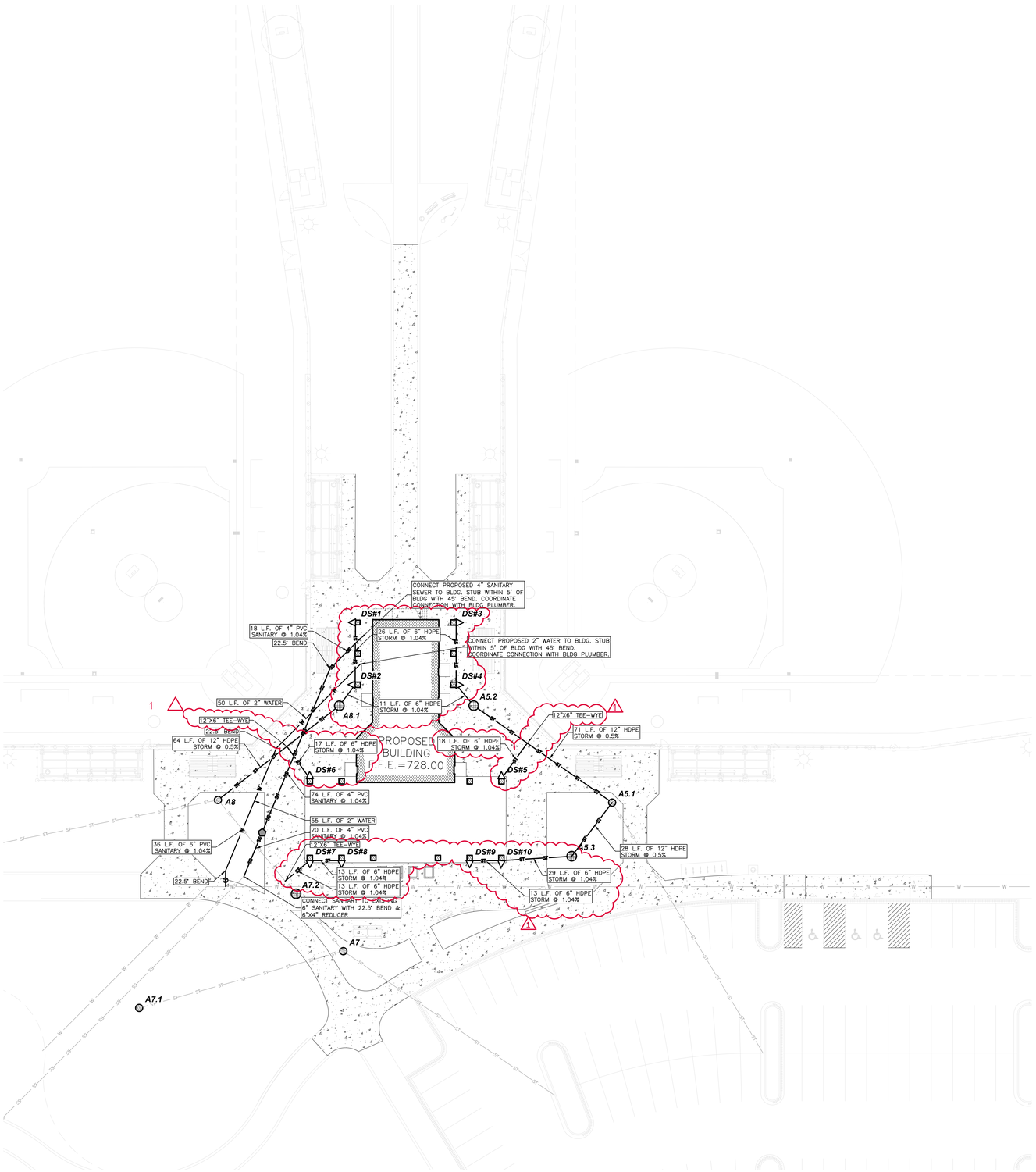
Revisions:

No.	Description	Date
1	Addendum #1	01/08/2026

Graphic Scale: **SEE PLAN**

Last Update: **12/11/2025**

C200



BENCHMARK:

THE BASE TOPOGRAPHIC MAP FOR THIS DRAWING WAS SURVEYED AND DRAFTED BY OTHERS.

EXISTING CONDITIONS DISCLAIMER:

NOTE THAT THE BASE TOPOGRAPHIC MAP FOR THIS DRAWING WAS SURVEYED AND DRAFTED BY OTHERS. POINT OF BEGINNING WILL NOT BE HELD LIABLE FOR ANY INACCURACIES OR OMISSIONS FROM THE TOPOGRAPHIC MAP/INFORMATION.

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
4. REFER TO THE PROPOSED BUILDING MECHANICAL/PLUMBING PLANS TO VERIFY EXACT CONNECTION LOCATIONS AND SIZES OF PROPOSED SANITARY SEWER AND WATER LATERALS.
5. COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
6. COORDINATE UTILITY SERVICE DISCONNECTIONS/OUTAGES WITH OWNER AND ANY IMPACTED NEIGHBORS. MINIMIZE DISRUPTIONS TO THE MAXIMUM EXTENT PRACTICAL.
7. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE LOCAL MUNICIPALITY.
8. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
9. THE PROPOSED WATER SHALL HAVE A MINIMUM COVER OF 7'-6" TO THE TOP OF PIPE FROM PROPOSED FINISHED GRADE. SEE SHEET C200 FOR PROPOSED FINISHED GRADE.
10. THE MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES, IF NEEDED.
11. FIELD VERIFY INVERT ELEVATION OF THE SANITARY SEWER AND WATER PUBLIC MAIN, AT THE LOCATION OF THE SERVICE LATERAL CONNECTIONS, PRIOR TO CONNECTING THE LATERALS.

GRADING LEGEND:

PROPOSED STORM SEWER	ST
PROPOSED SANITARY SEWER	SS
PROPOSED WATER MAIN	W
PROPOSED STORM SEWER INLET	5 C400
PROPOSED STORM SEWER MODULAR INLET OR YARD DRAIN	6 C400
PROPOSED SANITARY SEWER CLEANOUT	7 C400
PROPOSED 2" WATER CURBSTOP	
PROPOSED DOWNSPOUT CONNECTION	9 C400

STRUCTURE #	STRUCTURE DETAILS
A5.1	BY OTHERS PER TREMPEALEAU COMMUNITY PARK PROJECT
A5.2	RIM = 727.69 INV = 724.69 SE INV = 725.69 NW DEPTH = 3.50' 15" NYLOPLAST DRAIN BASIN W/ 15" DROP IN GRATE W/ 6" SUMP
A5.3	RIM = 726.86 INV = 724.28 NE INV = 725.28 W DEPTH = 3.08' 15" NYLOPLAST DRAIN BASIN W/ 15" DROP IN GRATE W/ 6" SUMP
A7	BY OTHERS PER TREMPEALEAU COMMUNITY PARK PROJECT
A7.1	BY OTHERS PER TREMPEALEAU COMMUNITY PARK PROJECT
A7.2	RIM = 727.25 INV = 723.82 SE DEPTH = 3.93' 15" NYLOPLAST DRAIN BASIN W/ 15" DROP IN GRATE W/ 6" SUMP
A8	BY OTHERS PER TREMPEALEAU COMMUNITY PARK PROJECT
A8.1	RIM = 727.69 INV = 724.46 SW INV = 725.46 NE DEPTH = 3.73' 15" NYLOPLAST DRAIN BASIN W/ 15" DROP IN GRATE W/ 6" SUMP

0' 20' 40'
1" = 20'

N

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:
Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **UTILITY PLAN**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **JJL**

Key Plan:

BID SET

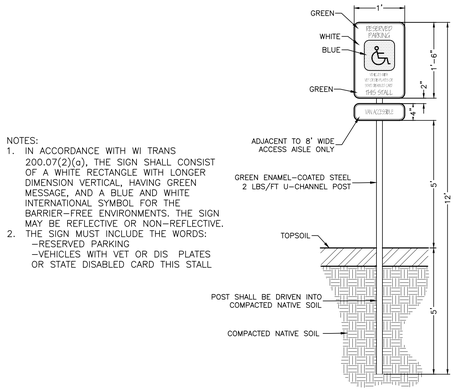
Revisions:

No.	Description	Date
1	Addendum #1	01/08/2026

Graphic Scale: **SEE PLAN**

Last Update: **01/08/2026**

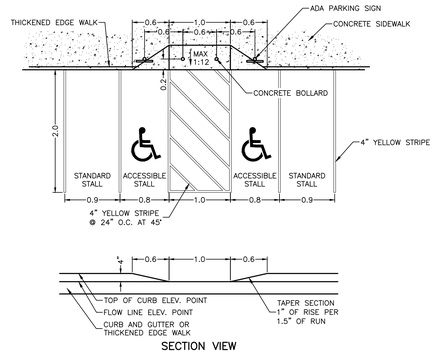
C300



NOTES:
1. IN ACCORDANCE WITH WI TRANS 200.07(2)(a), THE SIGN SHALL CONSIST OF A WHITE RECTANGLE WITH LONGER DIMENSION VERTICAL, HAVING GREEN MESSAGE, AND A BLUE AND WHITE INTERNATIONAL SYMBOL FOR THE BARRIER-FREE ENVIRONMENTS. THE SIGN MAY BE REFLECTIVE OR NON-REFLECTIVE.
2. THE SIGN MUST INCLUDE THE WORDS: -RESERVED PARKING -VEHICLES WITH VET OR DIS. PLATES OR STATE DISABLED CARD THIS STALL

ADA SIGNAGE

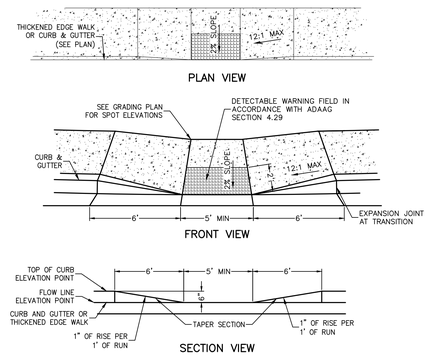
1 C400



SECTION VIEW

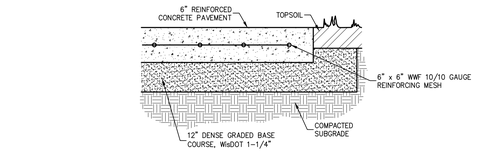
ADA STRIPING

2 C400



ADA RAMP

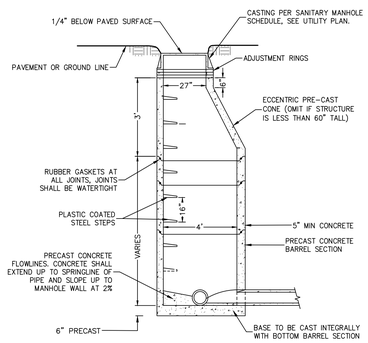
3 C400



REINFORCED CONCRETE

CONCRETE SECTION

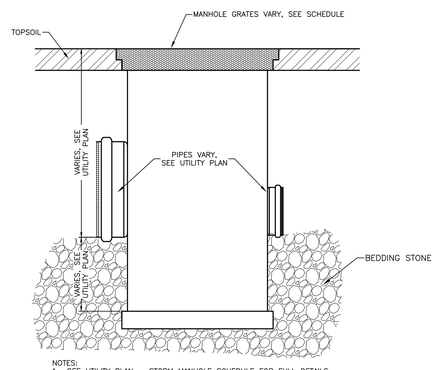
4 C400



NOTES:
1. MANHOLES SHALL BE PRECAST REINFORCED CONCRETE, MANUFACTURED TO MEET ASTM C-478.
2. CONNECT PIPES TO MANHOLE WITH WATER-TIGHT RUBBER BOOT CONNECTORS, DESIGNED FOR WASTEWATER APPLICATIONS AND APPLICABLE PIPE MATERIAL. INSTALL PER MANUFACTURER GUIDELINES.

MANHOLE

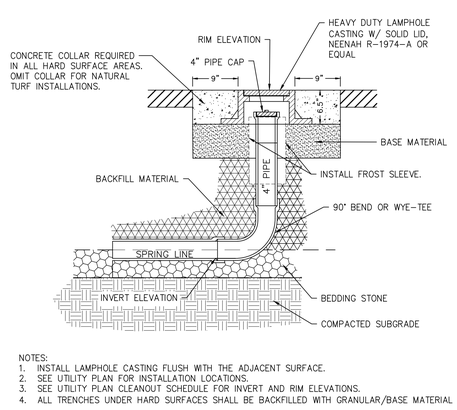
5 C400



NOTES:
1. SEE UTILITY PLAN – STORM MANHOLE SCHEDULE FOR FULL DETAILS FOR EACH PROPOSED DRAIN BASIN.
2. SEE UTILITY PLAN FOR DRAIN BASIN LOCATIONS.

FIELD INLET

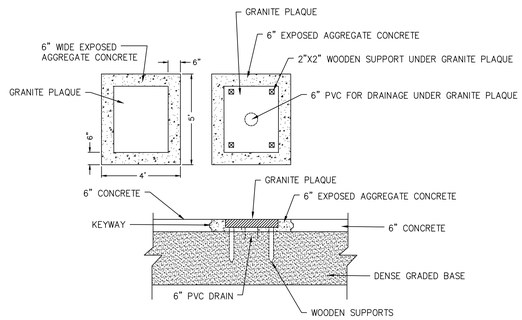
6 C400



NOTES:
1. INSTALL LAMPHOLE CASTING FLUSH WITH THE ADJACENT SURFACE.
2. SEE UTILITY PLAN FOR INSTALLATION LOCATIONS.
3. SEE UTILITY PLAN CLEANOUT SCHEDULE FOR INVERT AND RIM ELEVATIONS.
4. ALL TRENCHES UNDER HARD SURFACES SHALL BE BACKFILLED WITH GRANULAR/BASE MATERIAL

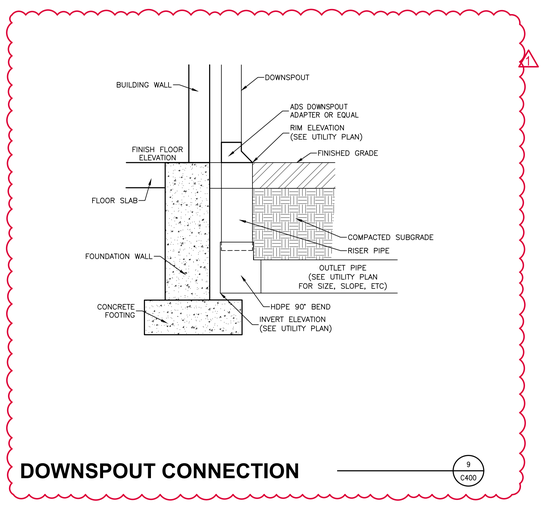
SANITARY CLEANOUT

7 C400



GRANITE PLAQUE INSTALLATION

8 C400



DOWNSPOUT CONNECTION

9 C400

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:
Point of Beginning
Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street, Trempealeau, WI 54661

Sheet Title: **DETAILS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **JJL**

Key Plan:

BID SET

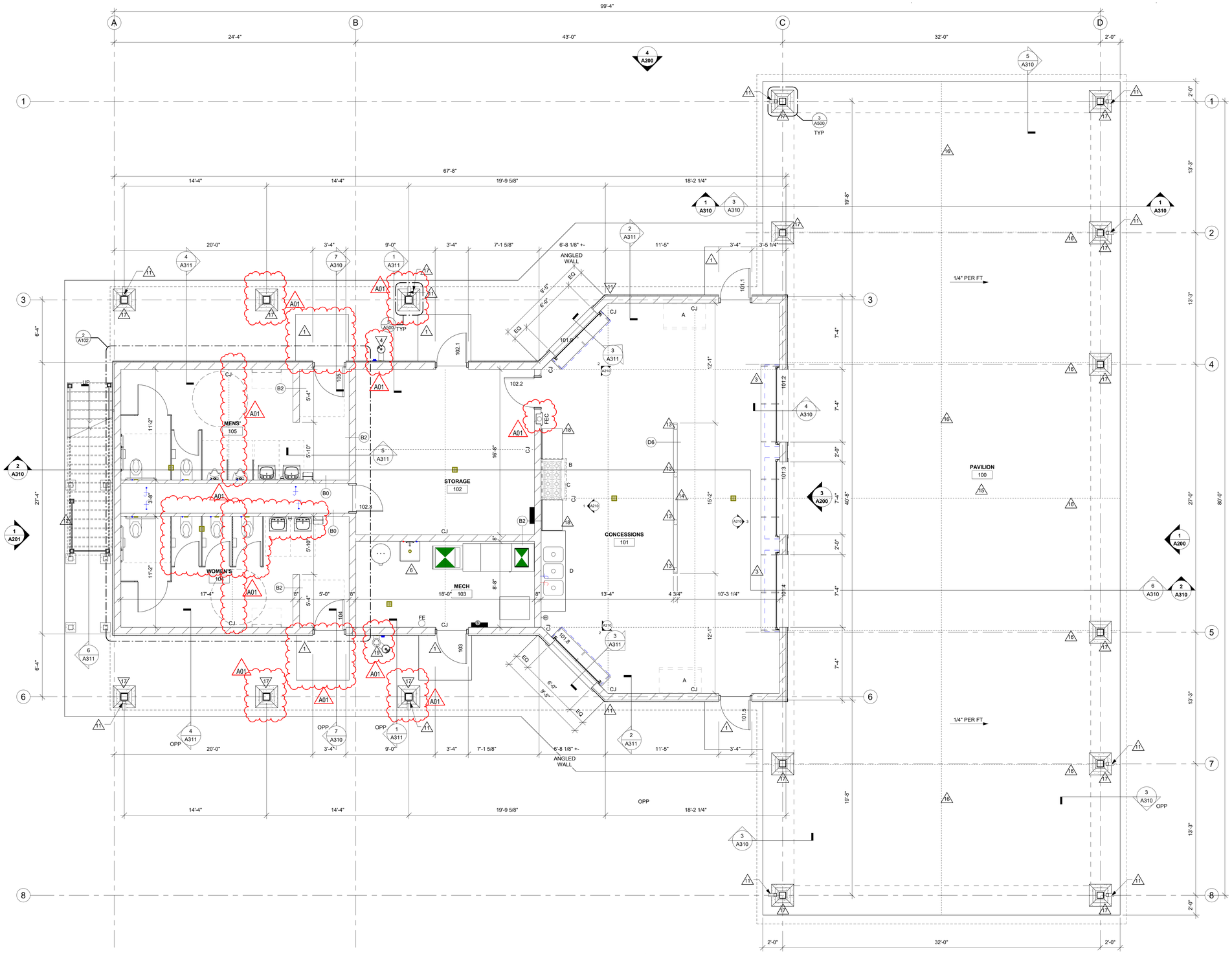
Revisions:

No.	Description	Date
1	Addendum #1	01/09/2026

Graphic Scale: **SEE PLAN**

Last Update: **01/08/2026**

C400



1 FLOOR PLAN

1/4" = 1'-0"

EQUIPMENT SCHEDULE

MARK	ITEM	UTILITY CONNECT	OFOI	OFCI	CFCI	COMMENTS
A	GLASS REFRIGERATED MERCHANDISER	ELECT		X		
B	8 BURNER RANGE	ELECT			X	
C	KITCHEN HOOD	ELECT. MECH			X	ALTERNATE
D	3 COMPARTMENT SINK	PLBG			X	

PLAN GENERAL NOTES:

A. SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.

B. UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.

C. PAINT ALL EXPOSED STEEL LINTELS.

D. SEE A502 FOR WALL CONTROL JOINT DETAILS. SEE ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.

E. SEE STRUCTURAL FOR SLAB CONTROL JOINTS.

F. GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL.

G. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

H. DIMENSIONS AT EXTERIOR WALLS ARE TO OUTSIDE FACE OF CMU.

PLAN LEGEND:

- (A) SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
- (A) SYMBOL INDICATES WINDOW TYPE. SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
- A SYMBOL INDICATES EQUIPMENT- SEE SCHEDULE ON THIS SHEET.
- CJ CONTROL JOINT
- FE BRACKET MOUNTED FIRE EXTINGUISHER.
- FEC FIRE EXTINGUISHER CABINET
- SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
- FLOOR DRAIN- SEE PLBG.

KEY NOTES PLAN

1	CONCRETE STOOP- SEE STRUCTURAL.
3	STAINLESS STEEL COUNTERTOPS.
4	DRINKING FOUNTAIN- SEE PLUMBING.
6	MOP SINK- SEE PLUMBING.
7	WINDOW IN STACKED POSITION.
8	BUTCHER BLOCK COUNTERTOPS, 18" DEEP.
9	NOT USED.
10	CALL CABINET- SEE ELECTRICAL.
11	PREFINISHED SHEET METAL OPEN-FACE DOWNSPOUT. CONNECT TO STORM- SEE CIVIL.
12	SAFETY RAILING- SEE 10A310.
13	PONY WALL SUPPORT.
14	T.O. WALL @ 4'-0" A.F.F. STAINLESS STEEL CAP- SEE SHEET A210.
15	BASE BID- BROOM FINISH.
16	TOOLED CONTROL JOINTS (TYP).
17	STEEL COLUMN- SEE STRUCTURAL. "ALTERNATE"- CMU BASE.
18	WORK SURFACES AND BASE CABINETS PROVIDED BY OWNER.
19	BOTTLE FILLER- SEE PLUMBING.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: FIRST FLOOR PLAN

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: MPL

Key Plan:

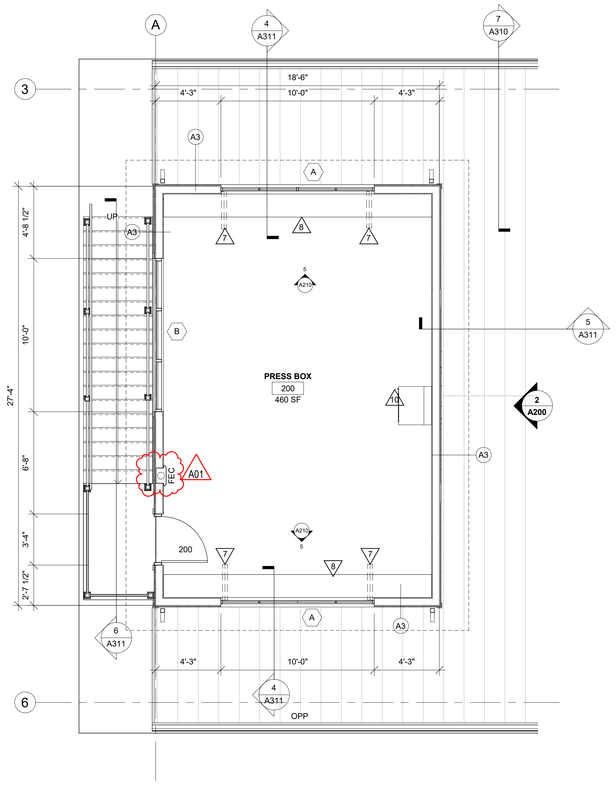
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 1' 2' 4' 6'

Last Update: 1/9/2026 9:42:43 AM

A101



1 PRESS BOX PLAN

1/4" = 1'-0"

PLAN GENERAL NOTES:

A. SEE ID SHEETS FOR FLOOR AND WALL FINISH LAYOUTS.

B. UNLESS NOTED OTHERWISE RESTROOM FLOORS SHALL BE SLOPED A MIN. 1/16" : 12" TO FLOOR DRAINS - TO "CENTER", IF NO FLOOR DRAINS.

C. PAINT ALL EXPOSED STEEL LINTELS.

D. SEE A502 FOR WALL CONTROL JOINT DETAILS. SEE ELEVATIONS FOR CJ LOCATIONS. CJ = CONTROL JOINTS.

E. SEE STRUCTURAL FOR SLAB CONTROL JOINTS.

F. GENERAL CONTRACTOR TO PROVIDE CONCRETE EQUIPMENT PADS/CURBS AS REQUIRED FOR MECHANICAL / ELECTRICAL EQUIPMENT- VERIFY SIZE, PROFILE & LOCATION WITH MECHANICAL / ELECTRICAL.

G. VERIFY EXACT SIZE AND LOCATION OF ALL MECHANICAL / PLUMB AND ELEC OPENINGS - GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FINISH AT ALL VISIBLE AREAS. ALL OPENING SHALL BE SEALED AFTER UTILITY INSTALLATION.

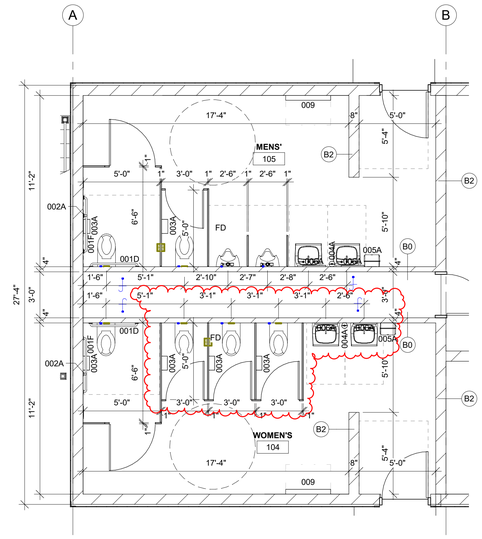
H. DIMENSIONS AT EXTERIOR WALLS ARE TO OUTSIDE FACE OF CMU.

PLAN LEGEND:

(A)	SYMBOL INDICATES WALL TYPE - SEE SHEET A600 FOR WALL TYPE DETAILS.
A	SYMBOL INDICATES WINDOW TYPE. SEE SHEET A600 FOR WINDOW FRAME ELEVATIONS.
A	SYMBOL INDICATES EQUIPMENT- SEE SCHEDULE ON THIS SHEET.
CJ	CONTROL JOINT
FE	BRACKET MOUNTED FIRE EXTINGUISHER.
FEC	FIRE EXTINGUISHER CABINET
△	SYMBOL INDICATES CONSTRUCTION NOTE THIS SHEET
▨	FLOOR DRAIN- SEE PLBG.

KEY NOTES PLAN

1	CONCRETE STOOP- SEE STRUCTURAL.
3	STAINLESS STEEL COUNTERTOPS.
4	DRINKING FOUNTAIN- SEE PLUMBING.
6	MOP SINK- SEE PLUMBING.
7	WINDOW IN STACKED POSITION.
8	BUTCHER BLOCK COUNTERTOPS- 18" DEEP.
9	NOT USED.
10	DATA CABINET- SEE ELECTRICAL.
11	PREFINISHED SHEET METAL OPEN-FACE DOWNSPOUT. CONNECT TO STORM- SEE CIVIL.
12	SAFETY RAILING- SEE 10A310.
13	PONY WALL SUPPORT.
14	T.O. WALL @ 4'-0" A.F.F - STAINLESS STEEL CAP. SEE SHEET A210.
15	BASE BID- BROOM FINISH
16	TOOLED CONTROL JOINTS (TYP).
17	STEEL COLUMN- SEE STRUCTURAL "ALTERNATE" -CMU BASE
18	WORK SURFACES AND BASE CABINETS PROVIDED BY OWNER.
19	BOTTLE FILLER- SEE PLUMBING.



2 ENLARGED TOILET ROOMS

1/4" = 1'-0"

ACCESSORY SCHEDULE

MARK	ITEM	OFOI	OFCI	CFCI	HEIGHT A.F.F.	COMMENTS
001D	GRAB BAR, 36" HORIZONTAL			X	CENTER AT 2'-10" A.F.F.	
001F	GRAB BAR, 42" HORIZONTAL			X	CENTER AT 2'-10" A.F.F.	
002A	GRAB BAR, 18" VERTICAL			X	BOTTOM AT 3'-4" A.F.F.	
003A	TOILET PAPER HOLDER			X	SEE MOUNTING HEIGHTS DRAWINGS	
004A	SOAP DISPENSER MANUAL			X	SEE MOUNTING HEIGHTS DRAWINGS	
005A	PAPER TOWEL DISPENSER ROLL			X	SEE MOUNTING HEIGHTS DRAWINGS	
006A	MIRROR, 18" x 30"			X	SEE MOUNTING HEIGHTS DRAWINGS	
009	BABY CHANGING STATION			X	SEE MOUNTING HEIGHTS DRAWINGS	

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: PRESS BOX FLOOR PLAN- ENLARGED TOILET ROOMS

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: MPL

Key Plan:

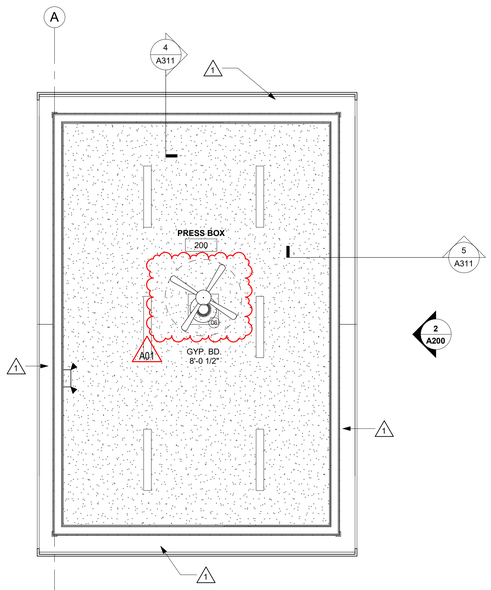
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: VARIES

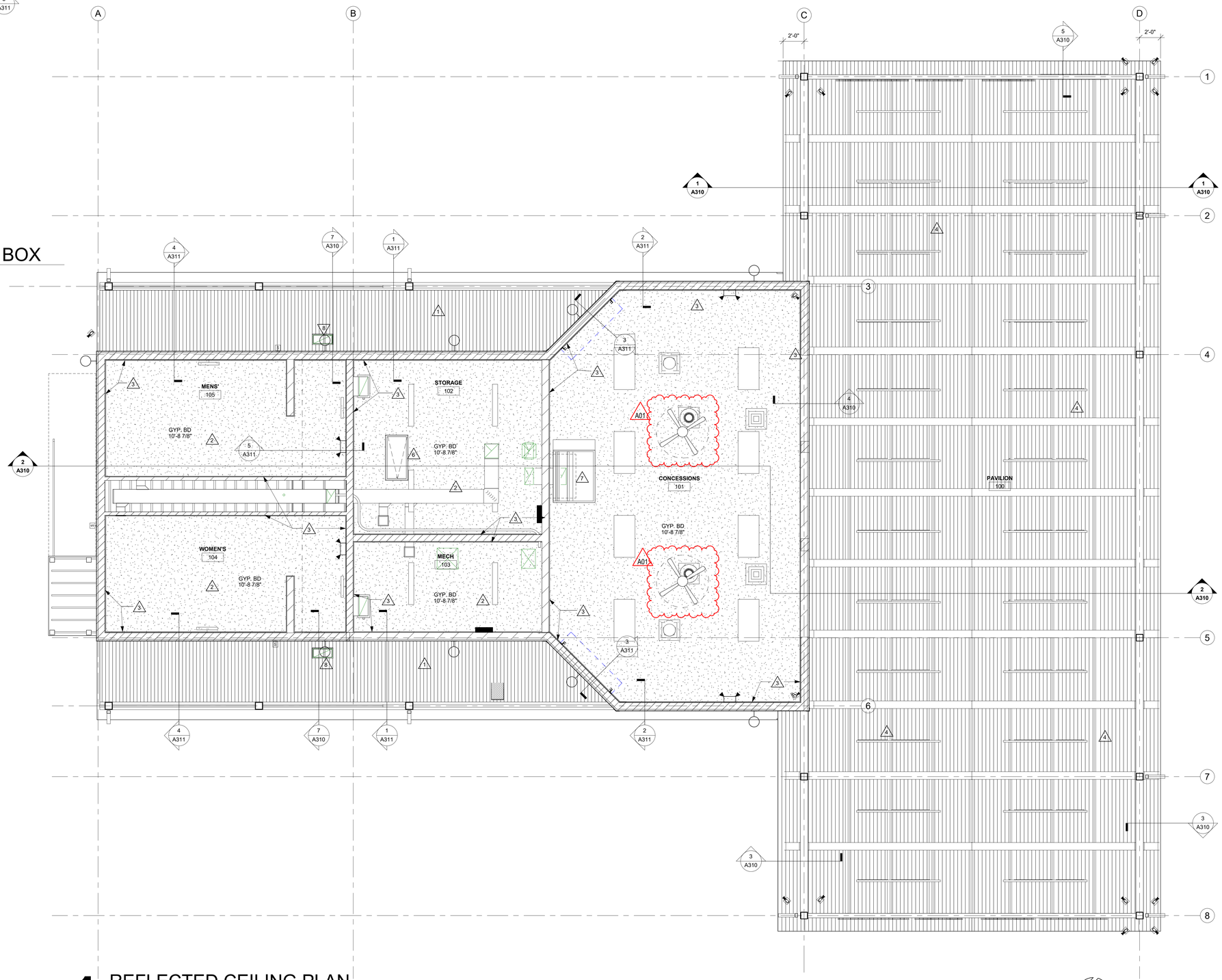
Last Update: 1/9/2026 9:42:44 AM

A102



2 REFLECTED CEILING PLAN- PRESS BOX

1/4" = 1'-0"



1 REFLECTED CEILING PLAN

1/4" = 1'-0"

RCP GENERAL NOTES:

A. REFER TO MECHANICAL AND PLUMBING CEILING ACCESS PANEL LOCATIONS & SIZES.

B. SEE MECHANICAL FOR CEILING GRILLE INFORMATION.

C. SEE ELECTRICAL FOR LIGHTING TYPES.

D. PAINT CONDUITS RUN ALONG T&G DECKING. RUN CONDUITS NEATLY.

E. ALL REMAINING ANNULAR SPACE AROUND ITEMS PENETRATING WALLS SHALL BE NEATLY SEALED.

F. ALL EXTERIOR EXPOSED STEEL, LINTELS/HEADERS SHALL BE GALVANIZED, PRIMED AND PAINTED UNLESS NOTED OTHERWISE.

G. REFER TO INTERIOR DESIGN SHEETS FOR OTHER FINISHES.

RCP LEGEND:

- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- LIGHT FIXTURE - SEE ELECTRICAL
- CEILING ACCESS PANEL - SEE SPECIFICATIONS
- C — SECURITY CAMERA- SEE ELECTRICAL
- CEILING FAN (LOW PROFILE AT PRESS BOX)

KEY NOTES RCP

1	PREFINISHED VENTED METAL SOFFIT.
2	PAINTED GYP BD CEILING.
3	PAINTED 1x4 TRIM AT CEILING PERIMETER.
4	EXPOSED T&G DECKING- SEE STRUCTURAL. DECKING TO BE STAINED
6	22"x48" CEILING ACCESS PANEL. SUPPORT WITH GYP BD AT PERIMETER OF OPENING.
7	*ALTERNATE* RANGE HOOD- SEE MECHANICAL.
8	TRANSFER GRILLE- SEE MECHANICAL.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **REFLECTED CEILING PLANS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **MPL**

Key Plan:

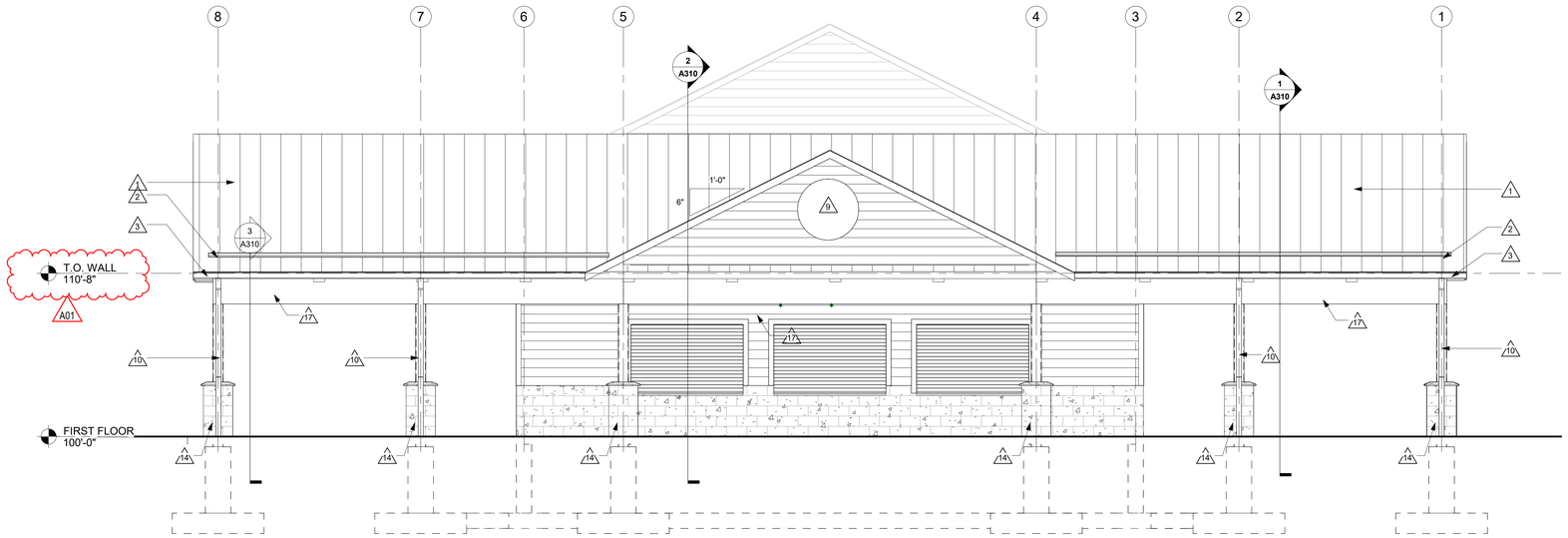
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 2' 4' 8' 12'

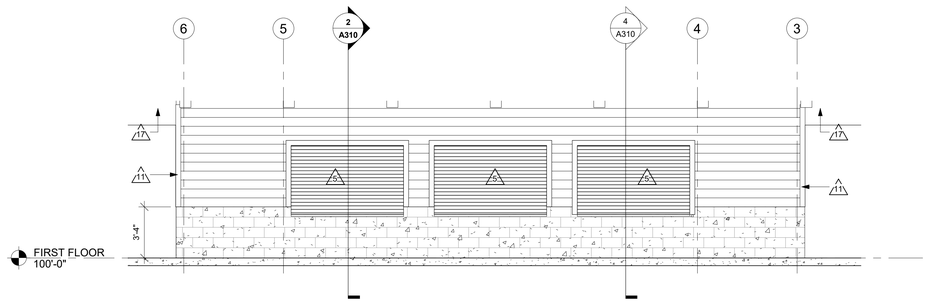
Last Update: **1/9/2026 9:42:45 AM**

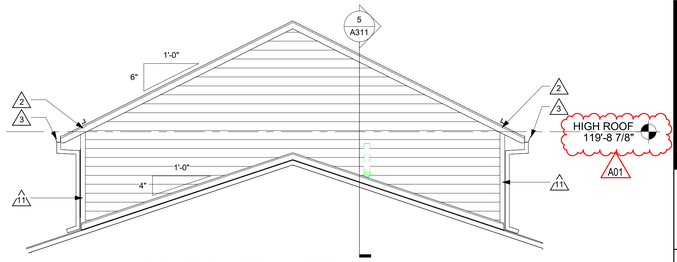
A110



1 SOUTH PAVILION ELEVATION

1/4" = 1'-0"





2 PRESS BOX- SOUTH

1/4" = 1'-0"

ELEVATION GENERAL NOTES:

A.	SEE DETAILS A502 FOR CONTROL JOINT (CJ) INFORMATION.
B.	CMU COURSING: RUNNING BOND TYPICAL.
C.	SEE SPECIFICATION FOR MATERIAL TYPE.
D.	PREFINISHED METAL FASCIA AT EAVE AND GABLE ENDS.

ELEVATION LEGEND:

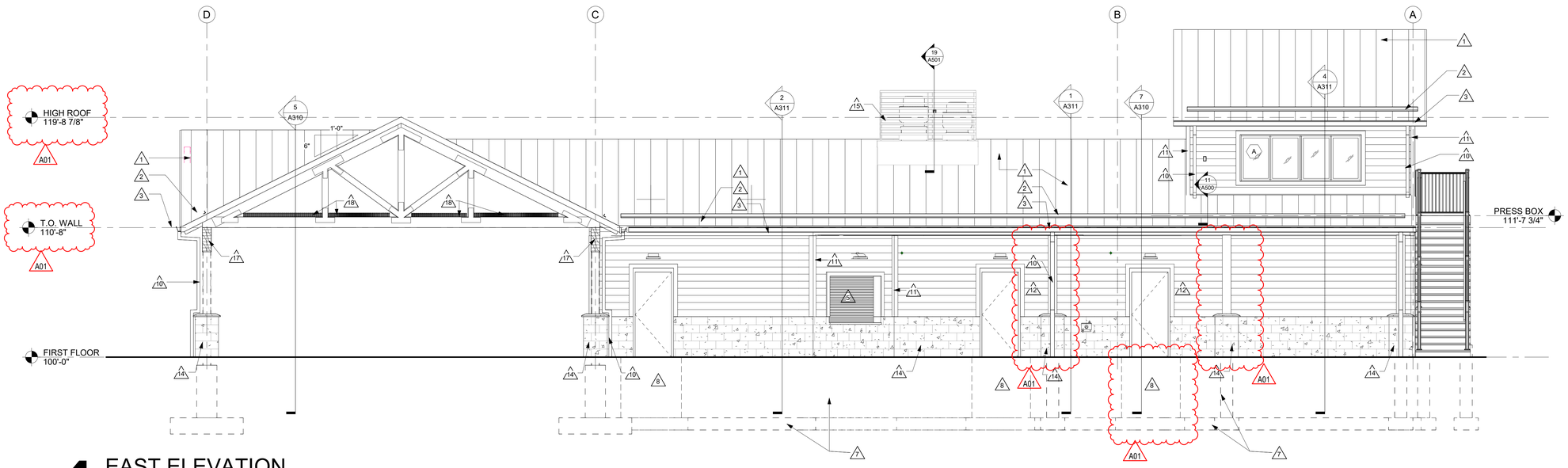
- KEYNOTE TAG
- WINDOW TAG - SEE SHEET A601 FOR FRAME ELEVATIONS
- SPLIT-FACE CMU
- CEMENT PANEL LAP SIDING

KEY NOTES ELEVATION

1	STANDING SEAM METAL ROOF.
2	SNOW GUARDS- BY METAL ROOF MANUFACTURER.
3	PREFINISHED METAL GUTTER.
5	COILING COUNTER DOOR.
7	CONCRETE FOOTING AND FOUNDATION- SEE STRUCTURAL.
8	CONCRETE STOOP- SEE STRUCTURAL.
9	PLAQUE PROVIDED BY OWNER - CONTRACTOR TO COORDINATE AND ASSIST WITH INSTALL.
10	PREFINISHED SHEET METAL OPEN-FACE DOWNSPOUT. CONNECT TO STORM- SEE CIVIL.
11	CORNER TRIM- BY SIDING MANUFACTURER.
12	EXTERIOR LIGHTING- SEE ELECTRICAL.
13	WALL HYDRANT- SEE PLUMBING.
14	STEEL COLUMN- SEE STRUCTURAL. *ALTERNATE* -CMU BASE
15	EXHAUST PLATFORM WITH EQUIPMENT SCREEN.
16	ANTI-SKID WALKWAY SYSTEM. FASTEN TO STANDING SEAM.
17	GLULAM BEAM- SEE STRUCTURAL.
18	BIRD SPIKES.

3 SOUTH CONCESSIONS ELEVATION

1/4" = 1'-0"



4 EAST ELEVATION

1/4" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **BUILDING ELEVATIONS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **MPL**

Key Plan:

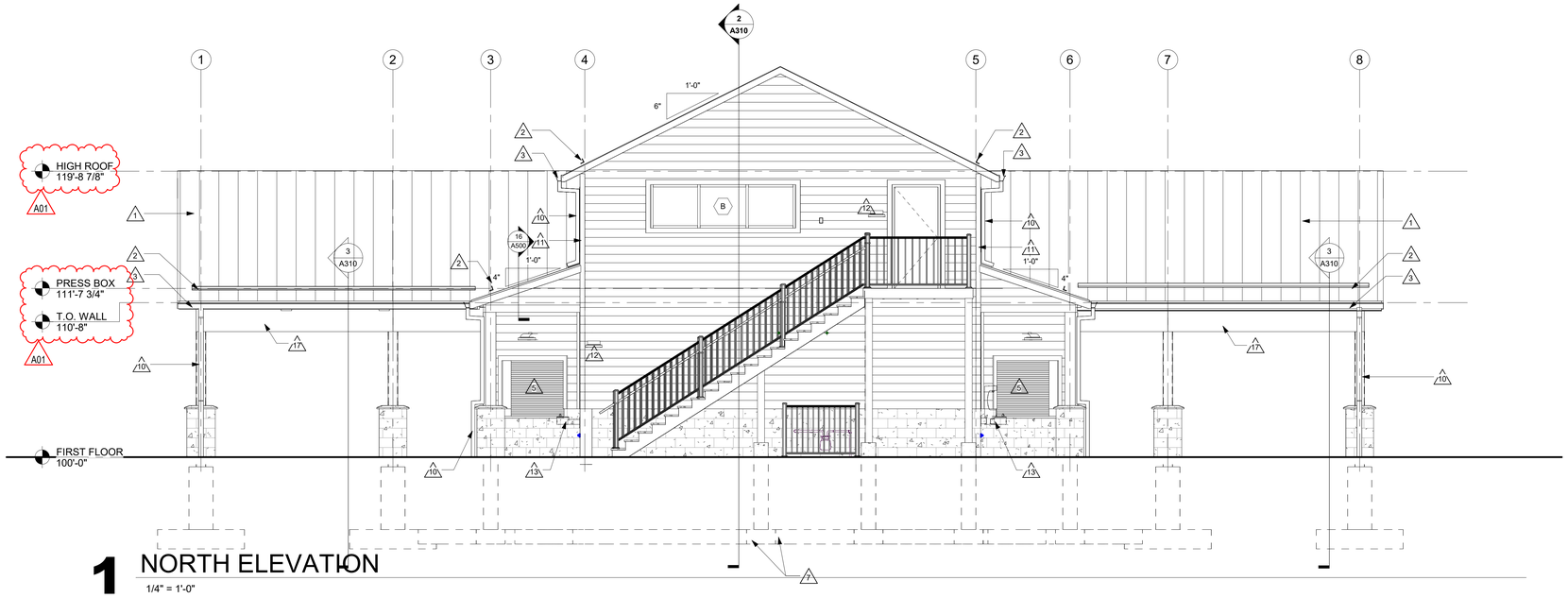
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 2' 4' 8' 12'

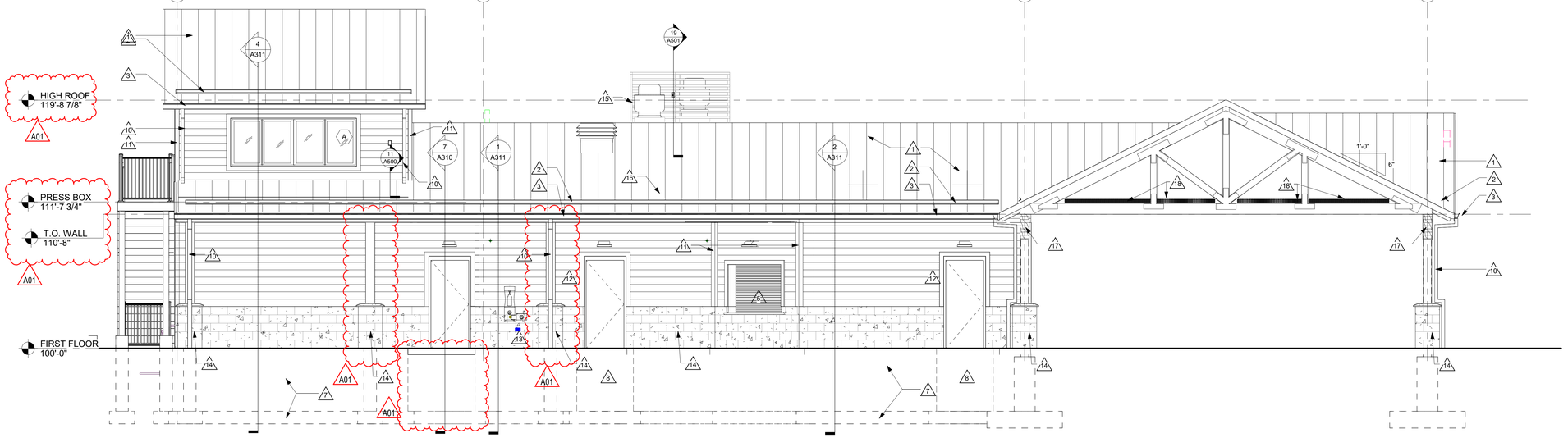
Last Update: **1/9/2026 9:42:47 AM**

A200



1 NORTH ELEVATION

1/4" = 1'-0"



2 WEST ELEVATION

1/4" = 1'-0"

ELEVATION GENERAL NOTES:

A.	SEE DETAILS A502 FOR CONTROL JOINT (CJ) INFORMATION.
B.	CMU COURSING: RUNNING BOND TYPICAL.
C.	SEE SPECIFICATION FOR MATERIAL TYPE.
D.	PREFINISHED METAL FASCIA AT EAVE AND GABLE ENDS.

ELEVATION LEGEND:

- KEYNOTE TAG
- WINDOW TAG - SEE SHEET A601 FOR FRAME ELEVATIONS
- SPLIT-FACE CMU
- CEMENT PANEL LAP SIDING

KEY NOTES ELEVATION

1	STANDING SEAM METAL ROOF.
2	SNOW GUARDS- BY METAL ROOF MANUFACTURER.
3	PREFINISHED METAL GUTTER.
5	COILING COUNTER DOOR.
7	CONCRETE FOOTING AND FOUNDATION- SEE STRUCTURAL.
8	CONCRETE STOOP- SEE STRUCTURAL.
9	PLAQUE PROVIDED BY OWNER - CONTRACTOR TO COORDINATE AND ASSIST WITH INSTALL.
10	PREFINISHED SHEET METAL OPEN-FACE DOWNSPOUT. CONNECT TO STORM- SEE CIVIL.
11	CORNER TRIM- BY SIDING MANUFACTURER.
12	EXTERIOR LIGHTING- SEE ELECTRICAL.
13	WALL HYDRANT- SEE PLUMBING.
14	STEEL COLUMN- SEE STRUCTURAL. *ALTERNATE* -CMU BASE
15	EXHAUST PLATFORM WITH EQUIPMENT SCREEN.
16	ANTI-SKID WALKWAY SYSTEM. FASTEN TO STANDING SEAM.
17	GLULAM BEAM- SEE STRUCTURAL.
18	BIRD SPIKES.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **BUILDING ELEVATIONS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **MPL**

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 1' 2' 4' 6'

Last Update: **1/9/2026 9:42:49 AM**

A201

CASEWORK GENERAL NOTES:

A. CASEWORK MANUFACTURER SHALL FIELD VERIFY ALL CASEWORK DIMENSIONS & CONDITIONS PRIOR TO FABRICATION OF CASEWORK.

B. PROVIDE FINISHED END PANELS AT ALL KNEE SPACE, ALCOVES, AND EXPOSED CABINET ENDS.

C. ALL BASE CABINET KICKS, ALCOVES, KNEE SPACE AND END PANELS SHALL RECEIVE BASE UNLESS OTHERWISE NOTED. SEE MASTER COLOR SCHEDULE FOR SIZE AND COLOR.

D. SEAL EDGE OF COUNTER/BACKSPLASH TO ALL WALL LOCATIONS W/ CLEAR SEALANT.

E. PROVIDE CORD GROMMETS AT ALL PRESS BOX COUNTERS - COORDINATE W/ OWNER FOR LOCATIONS.

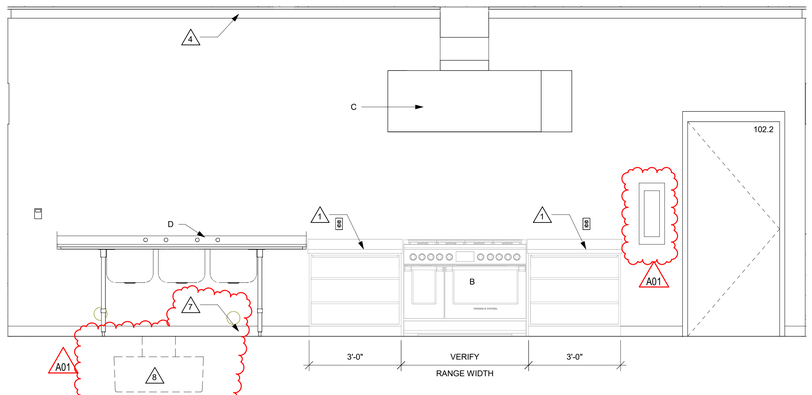
F. BASE CABINETS SHALL BE 24" DEEP UNLESS NOTED OTHERWISE. COUNTERTOPS TO EXTEND 1" BEYOND THE FINISHED EDGE OF BASE CABINET UNLESS NOTED OTHERWISE.

G. REFER TO ACCESSORY SCHEDULE ON SHEET A102.

H. REFER TO EQUIPMENT SCHEDULE ON SHEET A101.

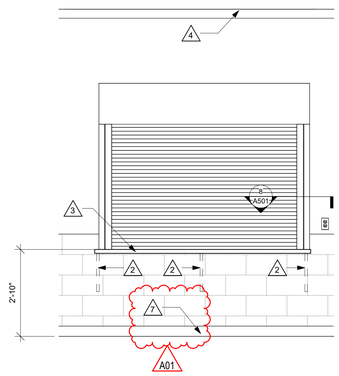
KEYNOTES-CASEWORK

1	WORK SURFACES AND CABINETS BY OWNER
2	COUNTER SUPPORT BRACKET- 4'-0" MAX SPACING.
3	32" DEEP STAINLESS STEEL COUNTERTOP AT SERVING COUNTER. 4" BACKSPLASH BETWEEN OPENINGS.
4	1X4 TRIM AT CEILING PERIMETER.
5	VNYL WALL BASE- SEE ID SHEETS.
6	18" DEEP BUTCHER BLOCK COUNTER TOP.
7	EPOXY WALL BASE- SEE ID SHEETS.
8	GREASE INTERCEPTOR- SEE PLUMBING.



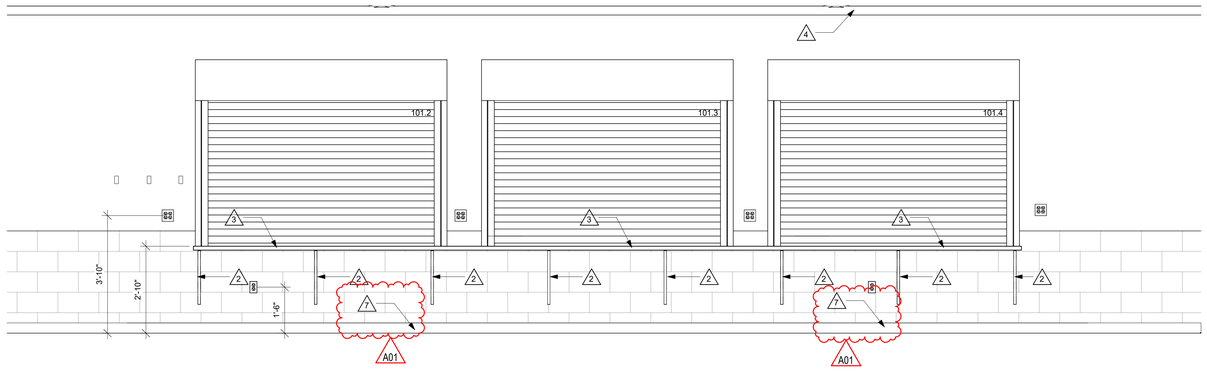
1 CSWK 101 NORTH

1/2" = 1'-0"



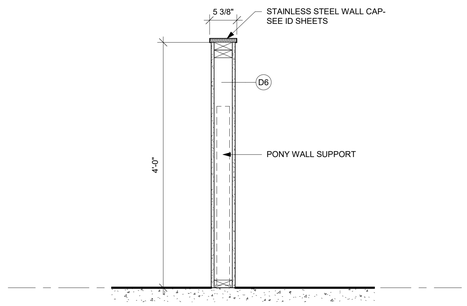
2 CSWK 101 NE-NW

1/2" = 1'-0"



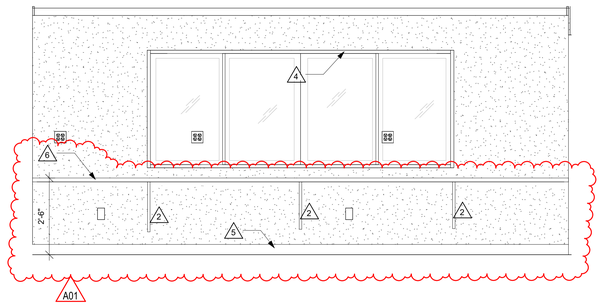
3 CWK 101 SOUTH

1/2" = 1'-0"



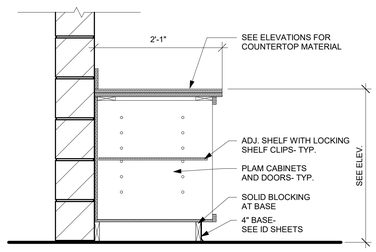
4 ISLAND COUNTER SECTION

1" = 1'-0"



5 PRESS BOX COUNTER

1/2" = 1'-0"



6 CASE-TYP. CASEWORK SECTION

1" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **INTERIOR ELEVATIONS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **BE/ MPL**

Key Plan:

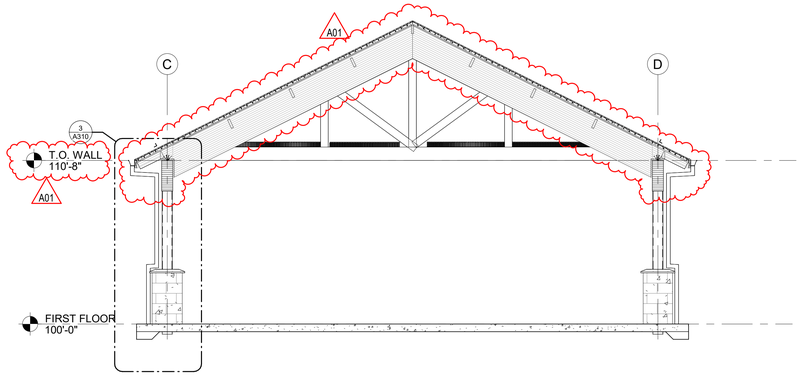
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: **VARIES**

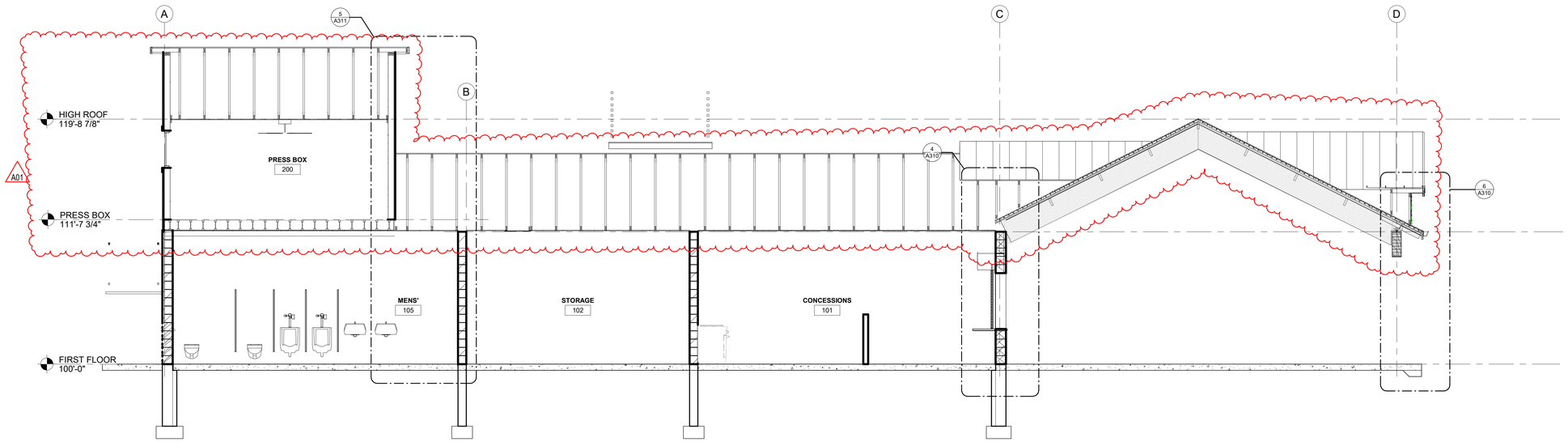
Last Update: **1/9/2026 9:42:50 AM**

A210



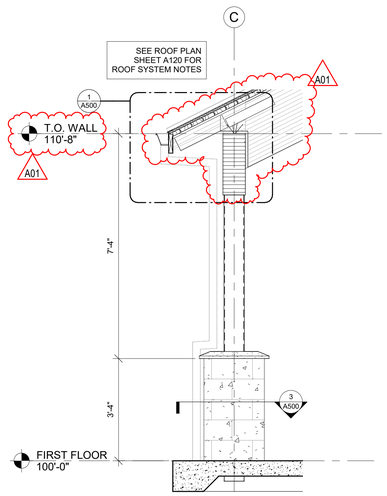
1 BUILDING SECTION

1/4" = 1'-0"



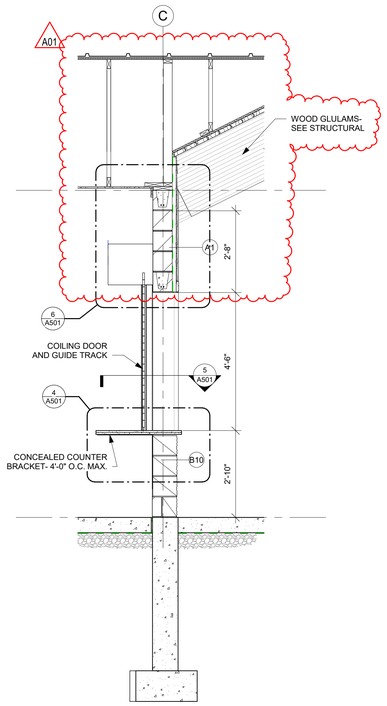
2 BUILDING SECTION

1/4" = 1'-0"



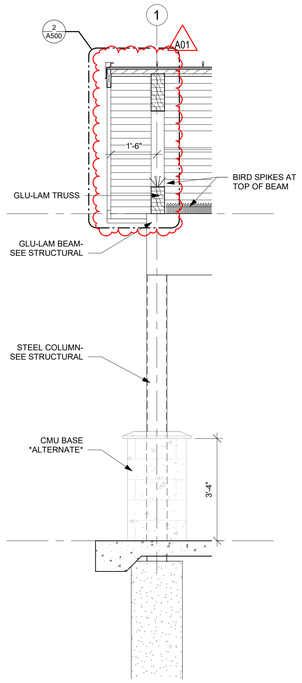
3 WALL SECTION

1/2" = 1'-0"



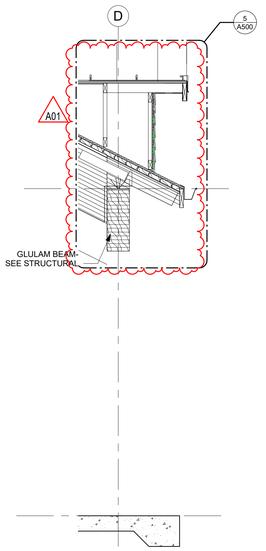
4 WALL SECTION

1/2" = 1'-0"



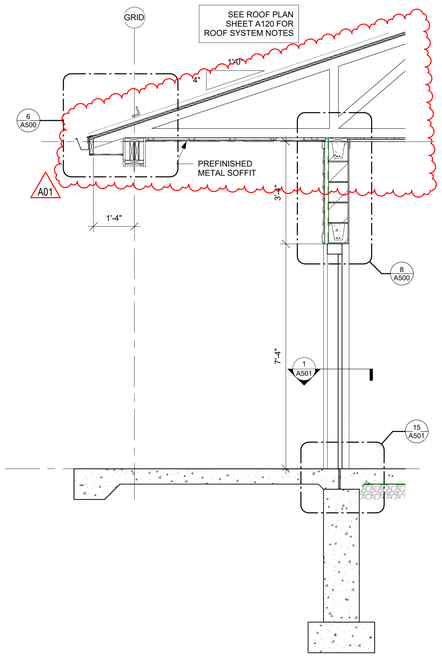
5 WALL SECTION

1/2" = 1'-0"



6 WALL SECTION

1/2" = 1'-0"



7 WALL SECTION

1/2" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **WALL SECTIONS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **MPL**

Key Plan:

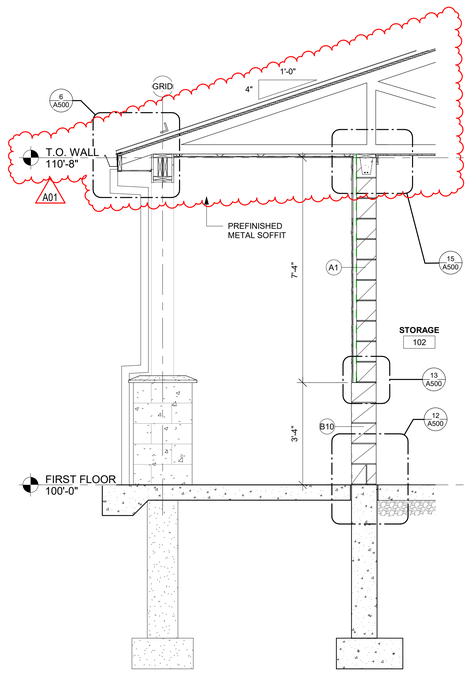
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 2' 4' 8' 12'

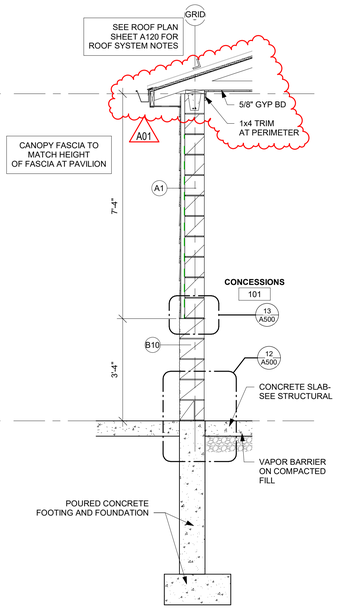
Last Update: **1/9/2026 9:42:52 AM**

A310



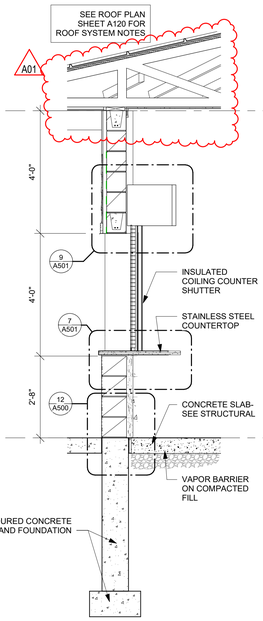
1 WALL SECTION

1/2" = 1'-0"



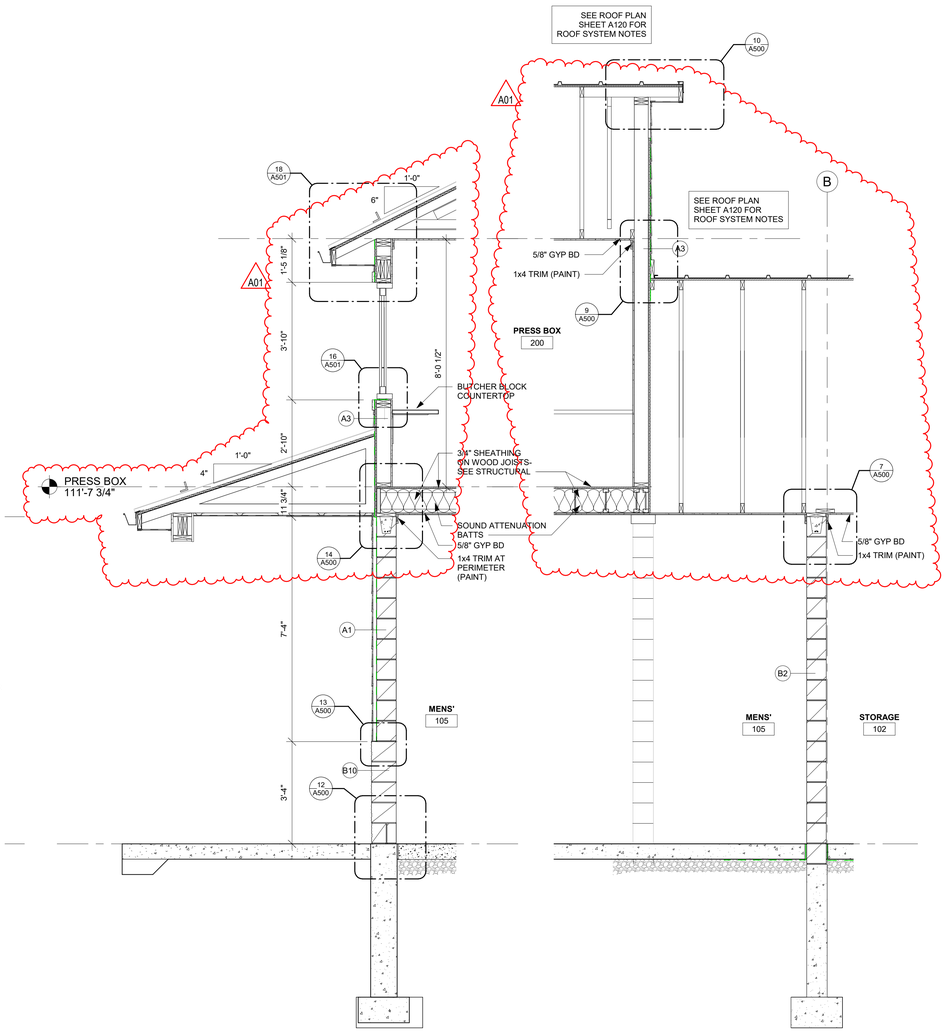
2 WALL SECTION

1/2" = 1'-0"



3 WALL SECTION

1/2" = 1'-0"

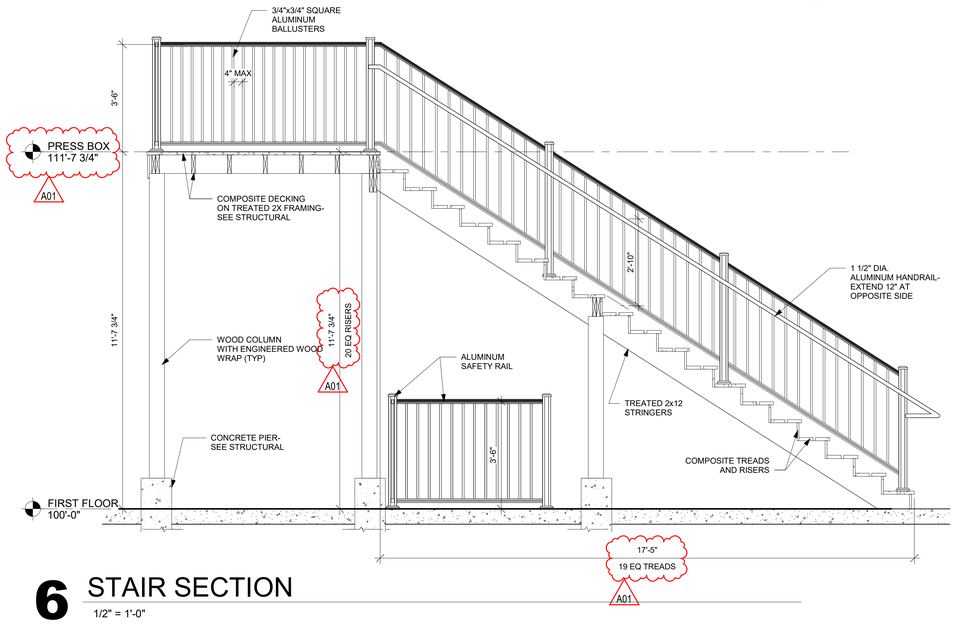


4 WALL SECTION

1/2" = 1'-0"

5 WALL SECTION

1/2" = 1'-0"



6 STAIR SECTION

1/2" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title:
VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location:
24016 12th Street
Trempealeau, WI 54661

Sheet Title:
WALL SECTIONS

HSR Project Number:
25013

Project Date:
DECEMBER 2025

Drawn By:
MPL

Key Plan:

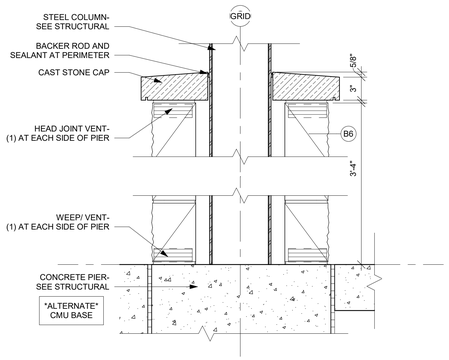
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale:
VARIES

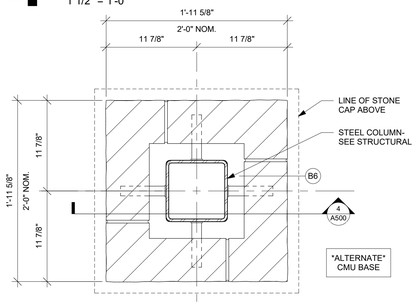
Last Update:
1/9/2026 9:42:53 AM

A311



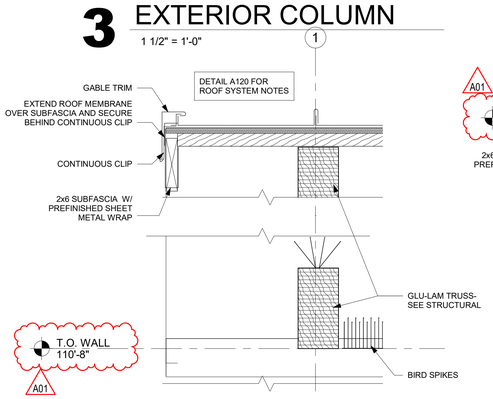
4 COLUMN SECTION

1 1/2" = 1'-0"



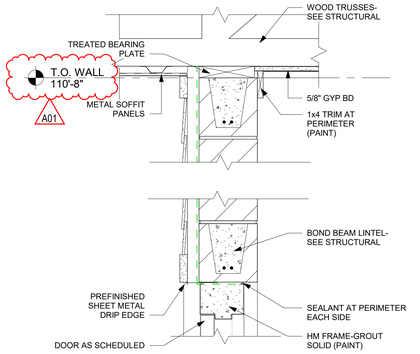
3 EXTERIOR COLUMN

1 1/2" = 1'-0"



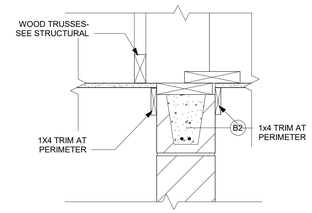
2 EAVE DETAIL

1 1/2" = 1'-0"



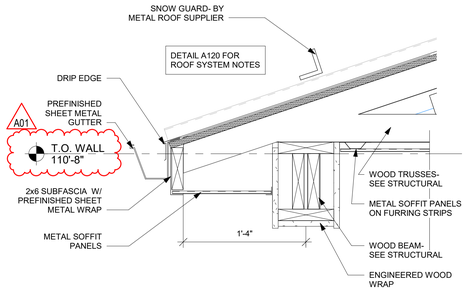
8 TRUSS BRG DETAIL

1 1/2" = 1'-0"



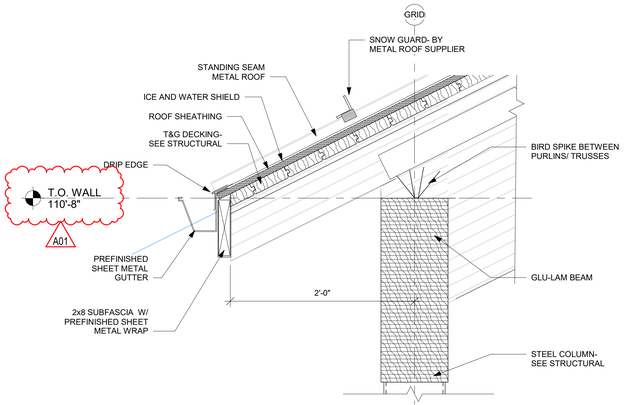
7 TOP OF WALL DETAIL

1 1/2" = 1'-0"



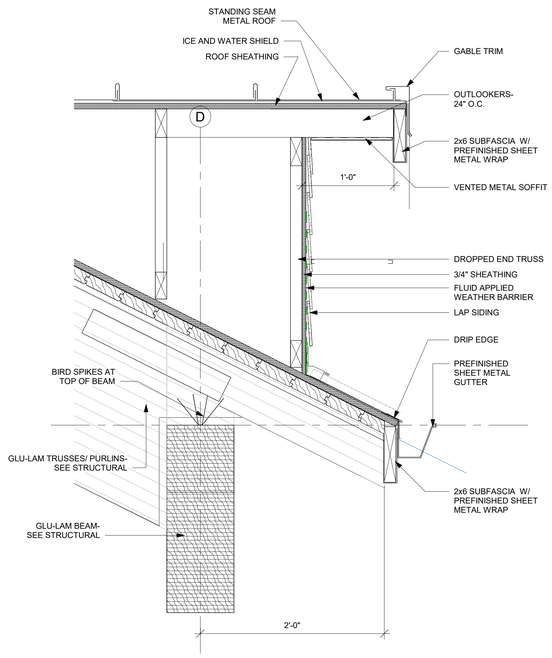
6 EAVE DETAIL

1 1/2" = 1'-0"



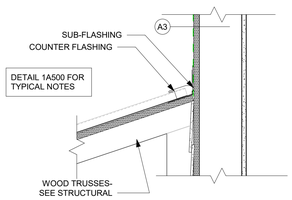
1 PAVILION OVERHANG

1 1/2" = 1'-0"



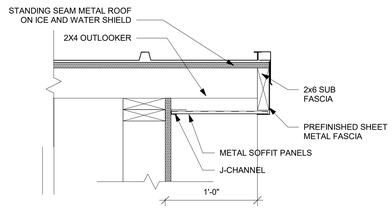
5 PAVILION GABLE DETAIL

1 1/2" = 1'-0"



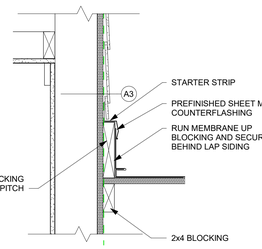
11 ROOF FLASHING DETAIL

1 1/2" = 1'-0"



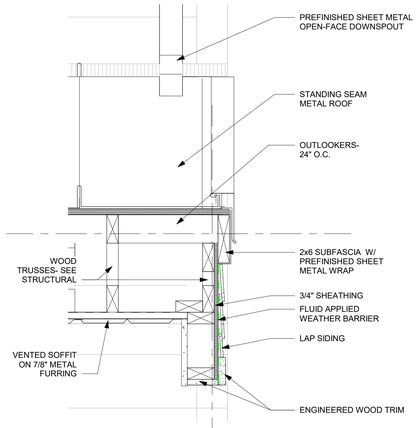
10 GABLE END DETAIL

1 1/2" = 1'-0"



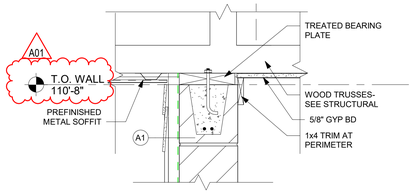
9 FLASHING DETAIL

1 1/2" = 1'-0"



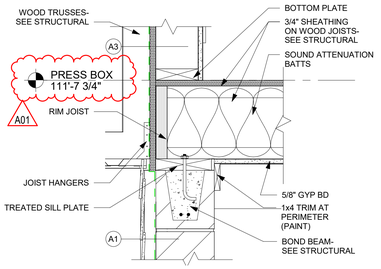
16 GABLE END DETAIL

1 1/2" = 1'-0"



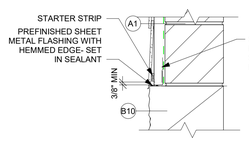
15 TRUSS BRG DETAIL

1 1/2" = 1'-0"



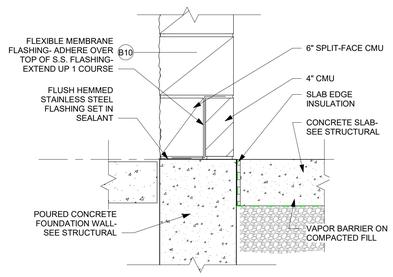
14 JOIST BEARING DETAIL

1 1/2" = 1'-0"



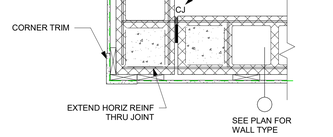
13 DRIP EDGE DETAIL

1 1/2" = 1'-0"



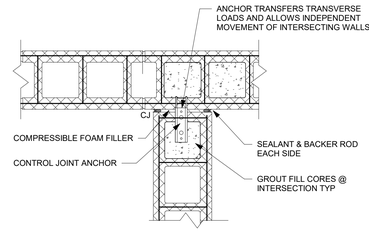
12 WALL BASE DETAIL

1 1/2" = 1'-0"



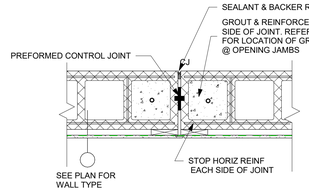
19 CONTROL JOINT

1 1/2" = 1'-0"



18 WALL CONTROL JOINT

1 1/2" = 1'-0"



17 CONTROL JOINT

1 1/2" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **DETAILS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **MPL**

Key Plan:

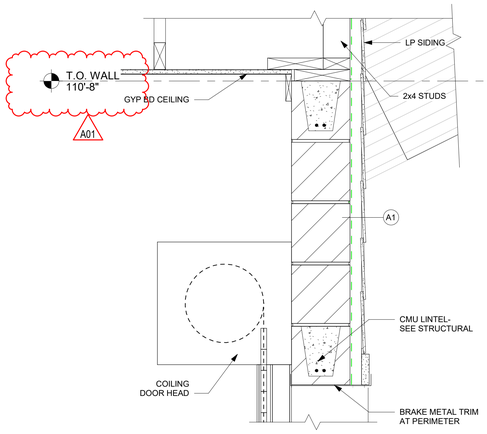
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0" 2" 4" 8" 1'

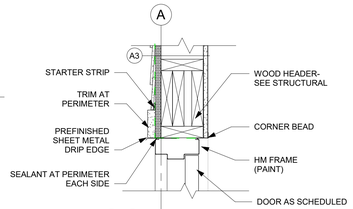
Last Update: **1/9/2026 9:42:56 AM**

A500



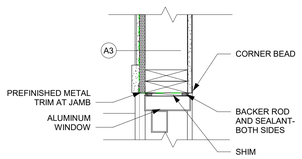
6 COILING DOOR HEAD

1 1/2" = 1'-0"



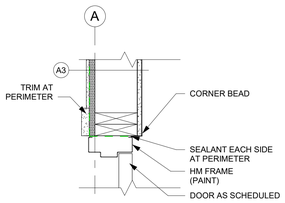
12 DOOR HEAD DETAIL

1 1/2" = 1'-0"



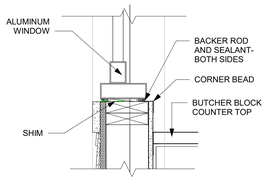
17 WDW JAMB DETAIL

1 1/2" = 1'-0"



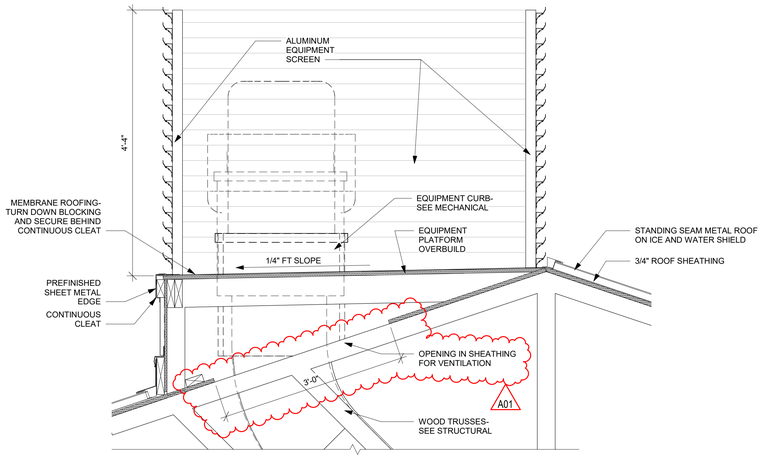
11 DOOR JAMB DETAIL

1 1/2" = 1'-0"



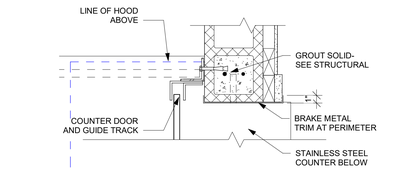
16 WINDOW SILL DETAIL

1 1/2" = 1'-0"



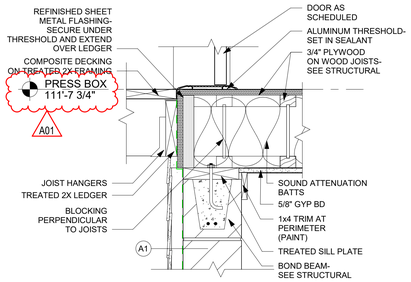
19 EQUIPMENT PLATFORM

1" = 1'-0"



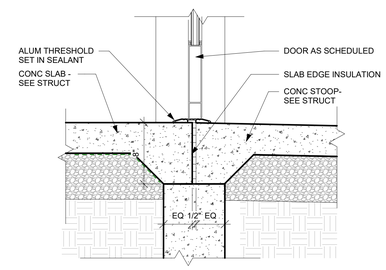
5 COILNG DOOR JAMB

1 1/2" = 1'-0"



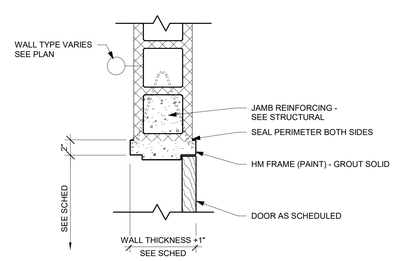
10 DOOR SILL DETAIL

1 1/2" = 1'-0"



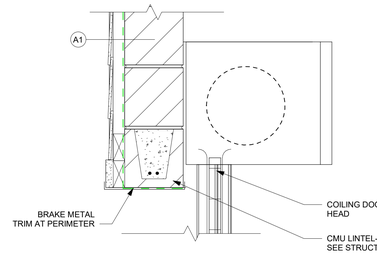
15 DOOR SILL DETAIL

1 1/2" = 1'-0"



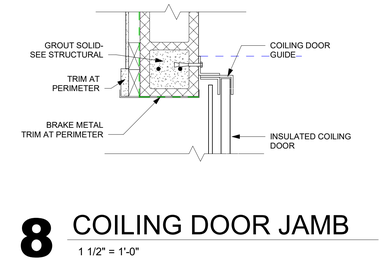
14 DOOR JAMB DETAIL

1 1/2" = 1'-0"



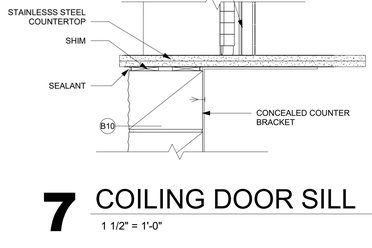
4 COILING DOOR SILL

1 1/2" = 1'-0"



3 DOOR HEAD DETAIL

1 1/2" = 1'-0"



2 DOOR JM- CMU- SIDING

1 1/2" = 1'-0"

1 DOOR JAMB DETAIL

1 1/2" = 1'-0"

9 COILING DOOR HEAD

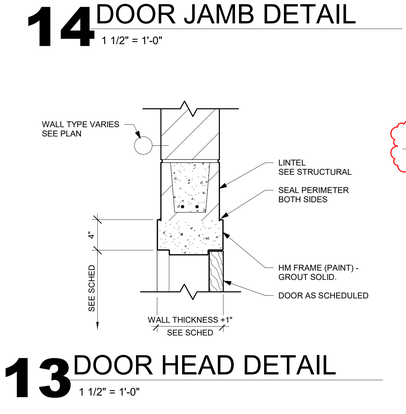
1 1/2" = 1'-0"

8 COILING DOOR JAMB

1 1/2" = 1'-0"

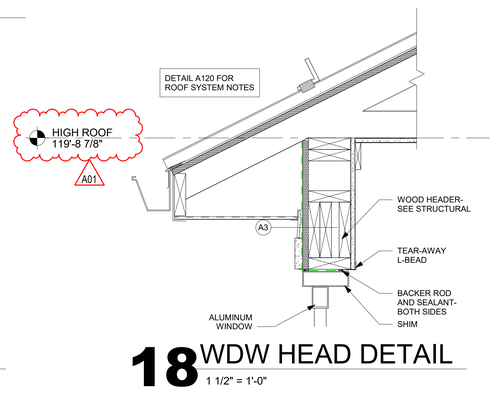
7 COILING DOOR SILL

1 1/2" = 1'-0"



13 DOOR HEAD DETAIL

1 1/2" = 1'-0"



18 WDW HEAD DETAIL

1 1/2" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **DETAILS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **MPL**

Key Plan:

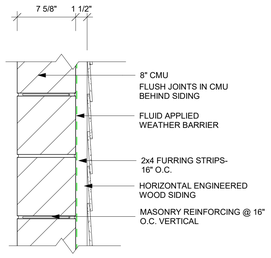
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

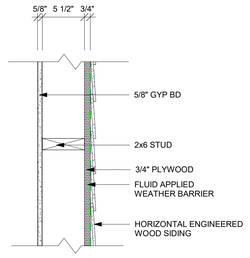
Graphic Scale: **VARIES**

Last Update: **1/9/2026 9:42:58 AM**

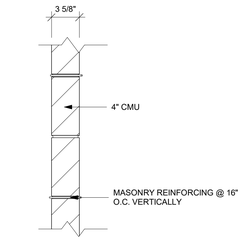
A501



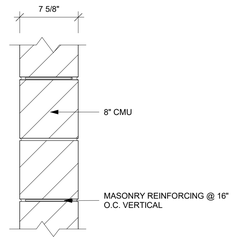
PARTITION TYPE	PARTITION WIDTH		R-VALUE	NOTES
	ACTUAL	NOMINAL		
A1	1'-0 1/2"	1'-0"	24.27	-



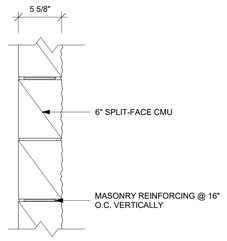
PARTITION TYPE	PARTITION WIDTH		R-VALUE	NOTES
	ACTUAL	NOMINAL		
A3	8"	8	23.86	-



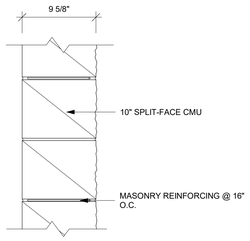
PARTITION TYPE	PARTITION WIDTH	
	ACTUAL	NOMINAL
B0	3 5/8"	4"



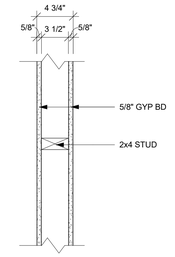
PARTITION TYPE	PARTITION WIDTH	
	ACTUAL	NOMINAL
B2	7 5/8"	8"



PARTITION TYPE	PARTITION WIDTH	
	ACTUAL	NOMINAL
B6	7 5/8"	8"



PARTITION TYPE	PARTITION WIDTH	
	ACTUAL	NOMINAL
B10	7 5/8"	8"



PARTITION TYPE	PARTITION WIDTH	
	ACTUAL	NOMINAL
D6	4 3/4"	5"

WALL TYPES

WALL TYPE GENERAL NOTES:

A. REFER TO MASTER COLOR SCHEDULE AND INTERIOR DESIGN SHEETS FOR ADDITIONAL WALL FINISHES.

B. WHERE INTERIOR DESIGN SHEETS INDICATE WALL TILE, INSTALL BACKER BOARD AT WET AND NON-WET LOCATIONS AS LISTED IN 09 21 16 .

DOOR SCHEDULE

MARK	DOOR SIZE W	SIZE H	SIZE T	DOOR TYPE	DOOR MATERIAL	GLASS TYPE	FRAME TYPE	FRAME DEPTH	FRAME MATERIAL	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	HDWR GROUP	REMARKS
101.1	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	5 3/4"	HM	3A501	1, 2A501	15A501	4	
101.2	7' - 4"	4' - 6"	1 1/2"	DOOR OH-RL-A	STL		FRAME-OH-ROLLING	10"	STL	6A501	5A501	4A501	2	1
101.3	7' - 4"	4' - 6"	1 1/2"	DOOR OH-RL-A	STL		FRAME-OH-ROLLING	10"	STL	6A501	5A501	4A501	2	1
101.4	7' - 4"	4' - 6"	1 1/2"	DOOR OH-RL-A	STL		FRAME-OH-ROLLING	10"	STL	6A501	5A501	4A501	2	1
101.5	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	5 3/4"	HM	3A501	1, 2A501	15A501	4	
101.8	6' - 0"	3' - 10"	1 1/2"	DOOR OH-RL-A-CNTR	STL		FRAME-OH-ROLLING	10"	STL	9A501	8A501	7A501	2	1
101.9	6' - 0"	3' - 10"	1 1/2"	DOOR OH-RL-A-CNTR	STL		FRAME-OH-ROLLING	10"	STL	9A501	8A501	7A501	2	1
102.1	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	5 3/4"	HM	3A501	1, 2A501	15A501	5	
102.2	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	8 3/4"	HM	13A501	14A501		8	
102.3	2' - 8"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	9 1/4"	HM	13A501	14A501		3	
103	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	5 3/4"	HM	3A501	1, 2A501	15A501	5	
104	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	5 3/4"	HM	3A501	1, 2A501	15A501	6	
105	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME BB	5 3/4"	HM	3A501	1, 2A501	15A501	6	
200	3' - 0"	7' - 0"	1 3/4"	DOOR A	HM		FRAME AA	5 3/4"	HM	14A501	13A501	12A501	7	

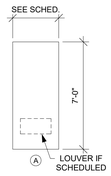
A01

DOOR SCHEDULE GENERAL NOTES

HM = HOLLOW METAL STL- STEEL

A. SEE SPECIFICATIONS FOR DOOR HARDWARE GROUPS
B. ALL HM (HOLLOW METAL) DOORS AND FRAMES SHALL BE PAINTED
C. ALL DOUBLE DOORS TO HAVE TWO EQUAL LEAFS UNLESS NOTED OTHERWISE

DOOR TYPES



DOOR SCHEDULE REMARKS

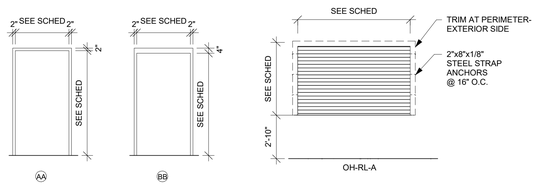
1. COILING COUNTER DOOR.

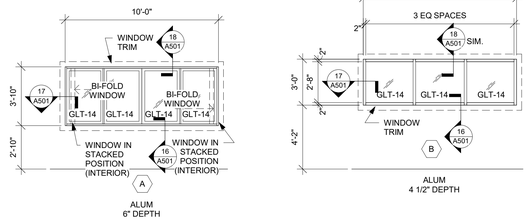
DOOR FRAME GENERAL NOTES

HM = HOLLOW METAL STL- STEEL

A. SEE SHEET A600 FOR ADDITIONAL FRAME TYPES
B. ALL HM (HOLLOW METAL) FRAMES SHALL BE PAINTED.

DOOR FRAME TYPES





1 WINDOW FRAME TYPES

1/4" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: WALL TYPES- DOOR SCHEDULE- FRAME TYPES

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: MPL

Key Plan:

Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: VARIES

Last Update: 1/9/2026 9:42:59 AM

A600

STRUCTURAL DESIGN CRITERIA

1. THESE NOTES SUPPLEMENT THE SPECIFICATIONS. PROJECT SPECIFICATIONS SHALL BE REFERRED TO FOR CLARIFICATIONS AND ADDITIONAL INFORMATION. IN CASE OF CONFLICT BETWEEN PROJECT SPECIFICATIONS AND THESE NOTES, THESE NOTES SHALL GOVERN.

2. GOVERNING BUILDING CODE: 2021 IBC AS AMENDED BY THE STATE OF WISCONSIN.
   RISK CATEGORY ---------- II

3. DESIGN LOADS

   LIVE LOAD
   - TYPICAL SLAB ON GRADE ---------- 100 psf
   - PRESSBOX ---------- 50 psf
   - ROOF ---------- 20 psf

   SNOW LOADS
   - GROUND SNOW (Pg) ---------- 50 psf
   - SNOW LOAD IMPORTANCE FACTOR (Is) ---------- 1.0
   - SNOW LOAD EXPOSURE FACTOR (Ce) ---------- 1.0
   - ROOF THERMAL LOAD FACTOR (Ct) AT BUILDING ---------- 1.1 (MAIN ROOF) 1.2 (PAVILION)
   - ROOF SNOW LOAD ---------- 37.8 psf (MAIN ROOF) 42 psf (PAVILION) + DRIFTING

   WIND LOADS
   - BASIC WIND SPEED ---------- 108 mph
   - WIND EXPOSURE CATEGORY ---------- C
   - INTERNAL PRESSURE COEFFICIENT ---------- ±0.18
   - WIND LOAD IMPORTANCE FACTOR (Iw) ---------- 1.0

   MAIN WIND FORCE - RESISTING SYSTEM:
   - MWFRS SELECTED EDGE STRIP DISTANCE, (2a) ---------- 11 ft
   - CALCULATED HORIZONTAL LOADS:

WALLS	CASE 1	CASE 2
WINDWARD WALL	-31.9 psf	3.4 psf
LEEWARD WALL	7.6 psf	-25.3 psf
SIDE WALLS	-1.2 psf	-29.7 psf

ROOF LONGITUDINAL DIRECTION	CASE 1	CASE 2
0 FT - 10 FT	-5.6 psf	-34.1 psf
10 FT - 20 FT	3.2 psf	-25.3 psf
> 20 FT	7.6 psf	-20.8 psf
OVERHANG	-3.4 psf	-31.9 psf

ROOF TRANSVERSE DIRECTION	CASE 1	CASE 2
WINDWARD	9.8 psf	-20.8 psf
LEEWARD	1.0 psf	-27.5 psf
OVERHANG	-3.4 psf	-31.9 psf

   COMPONENTS AND CLADDING:
   - (SEE ASCE/SEI 7-SECTION 6 FOR ZONE DEFINITIONS AND DIAGRAMS)
   - COMPONENT AND CLADDING SELECTED EDGE STRIP DISTANCE, (a) ---------- 5.5 ft
     SEE WIND LOAD DIAGRAMS S002

   SEISMIC LOADS
   - SEISMIC IMPORTANCE FACTOR (Ie) ---------- 1.0
   - MAPPED SHORT PERIOD SPECTRAL RESPONSE PARAMETER, Ss ---------- 0.049
   - MAPPED LONG PERIOD SPECTRAL RESPONSE PARAMETER, S1 ---------- 0.038
   - SEISMIC SITE CLASS ---------- D
   - SPECTRAL RESPONSE COEFFICIENT (Sds) ---------- 0.054
   - SPECTRAL RESPONSE COEFFICIENT (Sd1) ---------- 0.055
   - SEISMIC DESIGN CATEGORY ---------- A
   - BASIC SEISMIC FORCE RESISTING SYSTEM:
     PAVILLION
     STEEL SYSTEMS NOT DETAILED FOR SEISMIC RESISTANCE
     R = 3 Ωo = 3 Cd = 3

     PRESSBOX
     BEARING WALL SYSTEM: WOOD LIGHT-FRAMED WALLS SHEATHED WITH WOOD PANELS
     R = 6 1/2 Ωo = 3 Cd = 4

     CONCESSIONS, RESTROOMS & STORAGE
     BEARING WALL SYSTEM: ORDINARY REINFORCED MASONRY SHEAR WALLS
     R = 2 Ωo = 2 1/2 Cd = 1 3/4

   ANALYSIS PROCEDURE:
   - EQUIVALENT LATERAL FORCE PROCEDURE

4. FOUNDATIONS AND EARTHWORK
   - ALLOWABLE SOIL BEARING PRESSURE FOR FOOTINGS ---------- 2,000 psf

5. CONCRETE
   - MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'c)
     - FOOTINGS ---------- 4,000 psi
     - PIERS, WALLS ---------- 4,000 psi
     - SLAB-ON-GRADE (INTERIOR) ---------- 3,500 psi
     - SLAB-ON-GRADE (EXTERIOR) ---------- 4,500 psi

   - COVER ON MILD STEEL REINFORCEMENT
     - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ---------- 3"
     - CONCRETE EXPOSED TO EARTH OR WEATHER
       - #5 BARS AND SMALLER ---------- 1 1/2"
       - #6 BARS AND LARGER ---------- 2"
     - COLUMNS, MAIN BARS ---------- 2"
     - BEAMS, MAIN BARS ---------- 1 1/4"
     - PAN JOISTS ---------- 1"
     - ELEVATED STRUCTURAL SLABS ---------- 3/4"
     - PAVEMENTS, TOP COVER ---------- 1 1/2"
     - STIRRUPS, MINIMUM ---------- 3/4"
     - ALL OTHER CONCRETE, MINIMUM ---------- 3/4"

   - CONCRETE REINFORCEMENT YIELD STRENGTH (Fy)
     - ALL DEFORMED MILD STEEL ---------- 60,000 psi
     - WELDED WIRE FABRIC ---------- 65,000 psi

6. CONCRETE MASONRY
   - DESIGN STRESSES
     - MASONRY (NORMAL WEIGHT) MEETING ASTM C90 ---------- f'm = 2,250 psi
     - GROUT: MIN COMPRESSIVE STRENGTH AT 28 DAYS MEETING ASTM C476 ---------- 3,000 psi
     - MINIMUM BLOCK COMPRESSIVE STRENGTH ---------- 2,600 psi

7. STRUCTURAL STEEL
   - STRUCTURAL STEEL YIELD STRENGTH
     - TUBES ---------- ASTM A500 GRADE C
     - WF BEAMS AND COLUMNS ---------- ASTM A992
     - CHANNELS ---------- ASTM A992
     - ANGLES ---------- A36
     - BOLTS FOR STANDARD FRAME CONNECTIONS ---------- 3/4" DIAMETER F3125 GRADE A325
     - BOLTS FOR SINGLE SHEAR TAB CONNECTIONS ---------- 3/4" DIAMETER F3125 GRADE A325
     - ANCHOR RODS ---------- F1554 GRADE 36
     - WELDING ELECTRODES ---------- E70

8. MISCELLANEOUS
   - VERIFY OPENINGS THROUGH FLOOR AND WALLS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL REQUIREMENTS. CHANGES IN SIZE, LOCATION OR NUMBER OF OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS.

GENERAL

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THE SHOP DRAWINGS AND WORK.

2. NO OPENING SHALL BE MADE IN ANY STRUCTURAL BEAM, COLUMN, SUPPORT FLOOR, LOAD BEARING WALL, FOOTING, OR FOUNDATION WALL WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT/ ENGINEER. OPENINGS IN NON-LOAD BEARING WALLS REQUIRE THE ARCHITECT'S APPROVAL.

3. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON NEW STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

4. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

5. FIREPROOFING METHODS AND MATERIALS FOR STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR RATING REQUIREMENTS, FIREPROOFING METHODS AND MATERIALS.

6. ALL SECTIONS, DETAIL AND NOTES SHOWN ON THE STRUCTURAL DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS OTHERWISE NOTED.

7. WHEN CONFLICTS ARE NOTED ON THE DRAWINGS, THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE A/E FOR RESOLUTION PRIOR TO FABRICATION OR INSTALLATION.

FOUNDATION NOTES

1. FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000psf ON COMPACTED FILL. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION, AS WELL AS FIELD AND LABORATORY TESTS PERFORMED BY A CERTIFIED TESTING LABORATORY, WHOSE REPORT SHALL INCLUDE ANALYSIS AND RECOMMENDATIONS FOR SITE PREPARATION IN ORDER TO BEAR THE FOUNDATION LOADS. ABOVE REPORT SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW BEFORE FOUNDATION CONSTRUCTION BEGINS.

2. THE OWNER SHALL RETAIN A SOILS ENGINEERING FIRM TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE THE TESTING AND COMPACTION OF COMPACTED FILL MATERIAL.

3. CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES BEFORE FOUNDATION EXCAVATION IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.

4. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ANY EXISTING FOUNDATIONS.

5. BEFORE PLACING FOOTINGS, FOUNDATIONS, GRADE BEAMS, OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS AND THE DRAWINGS.

6. REINFORCE ALL FOUNDATION WALLS AND FOOTINGS AS SHOWN ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

7. CONTROL JOINTS IN THE CAST-IN-PLACE CONCRETE FOUNDATION WALLS SHALL BE PLACED AT NOT TO EXCEED 20' OC OR AS LOCATED ON THE DRAWINGS.

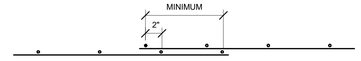
8. PERIMETER FOUNDATION WALL INSULATION IS NOT SHOWN ON THE FOUNDATION DETAILS. SEE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR INSULATION REQUIREMENTS.

9. SEE SPECIFICATIONS FOR FREE DRAINING BACKFILL BENEATH ALL CONCRETE WALKS AND SLABS ADJACENT TO STRUCTURE.

10. CONTRACTOR NOTE: THE BASE OF ALL EXCAVATIONS SHALL BE KEPT FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CARE SHOULD BE TAKEN DURING EXCAVATION AND CONSTRUCTION TO MINIMIZE DISTURBANCE OF THE BEARING SOILS. THE CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATION TO PREVENT EXCESSIVE DRYING OR WETTING OF THE SOIL.

CONCRETE CONSTRUCTION NOTES

1. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION):
   - "ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
   - "ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
   - "ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
   - "ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".
2. SEE SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES.
3. ALL CONCRETE REINFORCING STEEL IS TO BE ASTM A-615, GRADE 60.
4. PIPE SLEEVES OVER 1-1/2" INCHES IN DIAMETER WHICH PASS THROUGH CONCRETE WALLS OR SLABS SHALL BE SCHEDULE 40 GALVANIZED STEEL PIPE. ALL OTHER SLEEVES SHALL BE 14 GAUGE SHEET METAL. SLEEVES SHALL BE ONE SIZE LARGER THAN OUTSIDE DIAMETER OF PIPE PASSING THROUGH SLEEVE. VERIFY SIZE AND NUMBER WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
5. ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE.
6. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES.
7. THE CONSTRUCTION JOINTS NOTED ON THE FRAMING PLANS MUST BE PLACED AS SHOWN. ADDITIONAL CONSTRUCTION JOINTS OR MODIFICATIONS TO THOSE SHOWN WILL BE ALLOWED ONLY AFTER THEIR LOCATION HAS BEEN APPROVED BY THE ARCHITECT/ENGINEER.
8. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS AS REQUIRED FOR MATS, TILES, SLAB FLATNESS TOLERANCE, AND OTHER FINISH MATERIALS.
9. LAP WWF REINFORCEMENT A DIMENSION EQUAL TO THE WIRE SPACING PLUS 2" (6" MIN).



MASONRY NOTES

1. ALL MASONRY WALLS ARE TO HAVE HORIZONTAL REINFORCEMENT WHICH DOES NOT EXCEED 16 INCHES ON CENTER VERTICALLY. SEE SPECIFICATIONS FOR INFORMATION RELATING TO CONCRETE BLOCK, BRICK, AND WALL REINFORCING.
2. ALL VERTICAL REINFORCING STEEL IN MASONRY WALLS ARE TO COMPLY WITH ASTM A615, GRADE 60. LAPS SHALL BE 48 BAR DIAMETERS (12" MINIMUM).
3. PROVIDE SPLICE BARS FOR ALL BOND BEAM REINFORCING AT ALL CORNERS. SPLICE BAR TO BE THE SAME SIZE AS BARS IN THE BOND BEAM. LAPS SHALL BE 50 BAR DIAMETER.
4. WHERE MASONRY IS APPLIED ADJACENT TO STEEL MEMBERS (BEAMS AND COLUMNS) PROVIDE ANCHORING DEVICES PER SPECIFICATIONS.
5. REFER TO ARCHITECTURAL PLANS FOR ROUGH OPENING LOCATIONS, SIZES, AND ELEVATIONS.
6. USE SIMPSON TITEN HD OR APPROVED EQUAL TYPE ANCHORS IN CMU WALL PARTITIONS.
7. ALL NON-STRUCTURAL CMU WALLS SHALL BE REINFORCED WITH A #3 VERTICAL BAR AT 48" OC WITH THAT CMU CORE GROUTED AND HORIZONTAL JOINT REINFORCEMENT AT 16" OC THE BOTTOM TWO COURSES SHALL BE GROUTED SOLID. PROVIDE CONTINUOUS BOND BEAM AT TOP OF WALL WITH 2 #4's CONTINUOUS GROUT BOND BEAM SOLID. PROVIDE #3 DOWEL AT 48" OC MATCH VERTICAL BAR, LAP 50 BAR DIAMETERS. PROVIDE LINTEL BLOCK AS BOND BEAM WITH (2) #5 x CONT, AND 8" BEARING EACH END. TYPICAL UNLESS NOTED OTHERWISE.
8. CONSTRUCTION BRACING FOR MASONRY WALLS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED. MASONRY SUBMITTALS SHALL CONTAIN A LETTER SEALED BY THE ENGINEER AND SHALL BE ISSUED TO THE OWNER AFTER SUBMITTAL REVIEW AND PRIOR TO STARTING MASONRY CONSTRUCTION.

GENERAL NOTES APPLY TO ALL SHEETS

1. CONTRACTOR TO PROVIDE DRAFT STOPPING IN ATTIC. MAXIMUM AREA OF SUBDIVIDE ATTIC AREA IS 3000 SF CONTRACTOR TO COORDINATE LOCATION OF DRAFT STOPPING WITH ARCHITECT AND TRUSS SHOP DRAWINGS PRIOR TO START OF CONSTRUCTION. PROVIDE AN ATTIC ACCESS PANEL INTO EACH ATTIC COMPARTMENT. MINIMUM OPENING SIZE OF 20" x 30" COORDINATE LOCATION WITH ARCHITECT. DRAFT STOPPING TO EXTEND TO FASCIA AT OVERHANGS.
2. SECURE TRUSSES AT EACH BEARING WITH SIMPSON H2.5A MIN.
3. CONTRACTOR TO SUBMIT TRUSS SHOP DRAWINGS TO ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.

WOOD TRUSS NOTES

1. TRUSS FABRICATOR SHALL DESIGN TRUSSES FOR LOADS SPECIFIED ON PLANS IN CONFORMANCE WITH "QUALITY CONTROL MANUAL" BY TPI. REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEAD LOADS RESULTING FROM DORMERS AND OTHER MISCELLANEOUS FRAMING. ALL TRUSSES SHALL BE DESIGNED FOR A MINIMUM OF 30 PSF LIVE LOAD PLUS 10 psf DEAD LOAD.
2. LIVE LOAD IS ON A HORIZONTAL PROJECTION OTHER LIVE LOADS SHOWN ON THE DRAWINGS ARE IN ADDITION TO THESE DESIGNATED LOADS.
3. CHECK VERTICALLY PROJECTED ELEMENTS FOR DESIGN WIND LOAD.
4. DESIGN TRUSSES TO RESIST A NET UPLIFT OF 10 PSF.
5. SUBMIT SHOP DRAWINGS AND CALCULATIONS PRIOR TO FABRICATION.
6. CONFORM TO NDS AND TPI SPECIFICATIONS.
7. FLOOR TRUSS LL DEFLECTION SHALL NOT EXCEED L/480.
8. ROOF TRUSS LL DEFLECTION SHALL NOT EXCEED L/360.
9. PERMANENT BRACING NOT SHOWN ON PLANS, WHICH IS REQUIRED FOR STRENGTH AND STABILITY OF TRUSS MEMBERS, SHALL BE DESIGNED AND PROVIDED BY TRUSS SUPPLIER.
10. ALL BRACING SHOWN OR DESCRIBED SHALL BE MINIMUM (2x4 W/(2) 16d) (2x6 W/(3) 10d) IN EVERY TRUSS IT CROSSES.
11. ALL TRUSS TOP CHORDS SHALL BE CONTINUOUSLY BRACED BY THE (ROOF/FLOOR) DECKING. ALL ROOF TRUSS WEB MEMBERS SHALL BE BRACED AT 4'-0" OC UNLESS CALCULATIONS SHOW OTHERWISE.
12. TEMPORARY BRACING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. PROVIDE IN ACCORDANCE WITH TPI GUIDELILNES.
13. PROVIDE 24" WIDE VIERENDEEL PANEL AT CENTER OF EACH PARALLEL CHORD TRUSS.
14. ALL TRUSSES EXPOSED DIRECTLY TO MOISTURE SHALL BE MADE OF PRESSURE TREATED LUMBER.

WOOD FRAMING NOTES

1. DESIGN, FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION, AS RECOMMENDED BY THE NATIONAL LUMBER MANUFACTURER'S ASSOCIATION.
2. DESIGN, FABRICATION AND CONSTRUCTION OF ALL PLYWOOD FRAMING SHALL CONFORM TO "PLYWOOD DESIGN SPECIFICATIONS", LATEST EDITION, AS PUBLISHED BY THE AMERICAN PLYWOOD ASSOCIATION. ALL COLUMNS SHOWN ON STRUCTURAL DRAWINGS SHALL BE CONTINUOUS UNLESS NOTED. 3. 4. SILLS AND MEMBERS EXPOSED DIRECTLY TO MOISTURE OR IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED.
3. PLYWOOD SHALL CONFORM TO THE LATEST EDITION OF U.S. PRODUCT STANDARD PS-1. INSTALL IN STAGGERED PATTERN. NAIL AS REQUIRED FOR DIAPHRAGM ACTION.
4. FRAMING CONNECTIONS SHALL BE SIMPSON COMPANY OR EQUAL, OF THE CATALOG DESIGNATIONS INDICATED. INSTALL MANUFACTURERS STANDARD NAILS IN ALL HOLES PROVIDED UNLESS OTHERWISE NOTED.
5. SHEAR PLATE AND SPLIT RING FASTENERS SHALL BE TECO OR APPROVED EQUAL.
6. NAILS SHALL BE STRONGHOLD, GALVANIZED COMMON NAILS OF THE SIZES INDICATED, EXCEPT THAT GALVANIZED SIDING NAILS SHALL BE USED FOR THE ATTACHMENT OF EXTERIOR PLYWOOD SIDING.
7. WHERE NOT NOTED OTHERWISE, NAILING SHALL BE ACCORDING TO NAILING SCHEDULE IN TABLE 2304.9.1 IBC.
8. ALL BOLTS AND LAG SCREWS SHALL BE AMERICAN STANDARD MANUFACTURE.
9. BOLT HOLES IN WOOD SHALL BE DRILLED 1/16" MAXIMUM OVERSIZE. HOLES FOR SCREWS AND LAG SCREWS SHALL BE FIRST BORED FOR THE SAME DEPTH AND DIAMETER OF THE SHANK THEN THE REMAINDER OCCUPIED BY THE THREADED PORTION SHALL BE BORED NOT LARGER IN DIAMETER THAN THE ROOT OF THE THREAD. ALL SCREWS SHALL BE SCREWED, NOT DRIVEN INTO PLACE.
10. PROVIDE WASHERS UNDER ALL NUTS AND HEADS OF BOLTS AND LAG SCREWS, WASHERS SHALL BE EITHER ROUND MALLEABLE IRON OR SQUARE CUT STEEL WASHERS 1/4" THICK x 3 FASTENER DIAMETERS.
11. ALL TIMBER FRAMING SHALL BE ACCURATELY CUT, NOTCHED, OR DAPPED AS INDICATED. NO OVERCUT IS PERMITTED FOR NOTCHES OR DAPS. MEMBERS SHALL FIT TIGHT AND TRUE. EXAMINE MEMBERS FOR DETRIMENTAL DAMAGE BEFORE INSTALLATION, AND AVOID NATURAL DEFECTS AT CONNECTIONS. WHERE STEEL PLATES OCCUR, THEY SHALL BE USED AS THE TEMPLATE FOR BORING HOLES.
12. WHEREVER NECESSARY TO CUT OR DRILL TREATED LUMBER, TREAT THE CUT OR BORED SURFACES WITH TWO HEAVY COATS OF THE SAME PRESERVATIVE AS THE ORIGINAL TREATMENT.
13. PROVIDE SOLID BLOCKING AT MID-HEIGHT OF ALL WALLS.
14. PROVIDE SOLID BLOCKING AT MID-SPAN OF SAWN JOISTS EXCEEDING 10 FOOT SPAN AND AT 10 FOOT MAXIMUM ON CENTER.
15. MEMBERS BEARING ON CONCRETE OR MASONRY WALLS SHALL HAVE A 1/2" AIR SPACE AROUND SIDES AND END OF BEAM.
16. PROVIDE SOLID BLOCKING BETWEEN JOISTS AT ALL SUPPORTS.
17. SET ALL JOISTS WITH CROWN UP.
18. PLYWOOD PANEL EDGES SHALL BE NAILED NOT LESS THAN 3/8" IN FROM THE PANEL EDGE.
19. PROVIDE 1/4" GAP BETWEEN 4' x 8' PLYWOOD PANELS AT SIDES AND 1/8" GAP AT ENDS. USE PLYWOOD CLIP SPACERS TO MAINTAIN GAPS.
20. BOLT NAILERS AND BLOCKING TO STEEL, MASONRY, OR CONCRETE MEMBERS WITH BOLTS OF LENGTH REQUIRED SPACED 2'-0" OC AND 4" FROM EACH END, EXCEPT AS OTHERWISE NOTED. ANCHOR BOLTS SHALL BE 3/8" DIAMETER UNLESS OTHERWISE INDICATED.

STRUCTURAL STEEL NOTES

1. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM WITH THE AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), "MANUAL OF STEEL CONSTRUCTION", LATEST EDITION.
2. ALL STEEL DETAILS AND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN", LATEST EDITION.
3. ALL WELDING SHALL BE BY WELDERS HOLDING CURRENT VALID AWS CERTIFICATES IN THE TYPE OF WELD REQUIRED.
4. SHOP CONNECTIONS NOT SPECIFICALLY DETAILED ON THE DRAWINGS SHALL BE BOLTED OR WELDED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFICALLY DETAILED OTHERWISE.
5. DESIGN IN ACCORDANCE WITH GUIDE DETAILS AND REACTIONS.
6. USE A325N BOLTS UNLESS NOTED OTHERWISE.
7. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER.
8. ALL BEAM COPES MUST BE MADE TO A RADIUS (1" MINIMUM). ALL BUTT AND FULL PENETRATION WELDS SHALL BE MADE USING RUN OFF TABS WHICH SHALL BE TRIMMED FLUSH AND GROUND SMOOTH AFTER WELD IS COMPLETED.
9. ALL WELDS INDICATED SHALL MEET THE MINIMUM WELD SIZE SPECIFIED BY THE CURRENT AISC MANUAL OF STEEL DESIGN. (SINGLE PASS AS REQUIRED).
10. CUTS, HOLES, COPING, ETC. REQUIRED FOR WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS AND MADE IN THE SHOP. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
11. PROVIDE ANY NECESSARY TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE BUILDING UNTIL PERMANENT FRAME IS COMPLETELY INSTALLED.
12. INSTALL EXPANSION BOLTS IN ACCORDANCE WITH THE ICBO REPORT RECOMMENDATIONS.
13. STRUCTURAL STEEL FRAMING SHALL BE TRUE AND PLUMB BEFORE CONNECTIONS ARE FINALLY BOLTED OR WELDED.

GLULAM GENERAL NOTES

1. ALL GLULAM FABRICATION AND DESIGN SHALL CONFORM TO AITC 117-2010 AND AITC 190.0

STRUCTURAL DELEGATED DESIGNS AND DEFERRED SUBMITTALS

1. STRUCTURAL DELEGATED DESIGNS AND SUBSEQUENT DEFERRED SUBMITTALS ARE FOR ELEMENTS, PARTS OR PORTIONS OF THE OVERALL STRUCTURAL SYSTEM THAT ARE INDICATED OR REFERRED TO ON THESE DRAWINGS AND THAT ARE CRITICAL TO THE PERFORMANCE OF THE OVERALL STRUCTURAL SYSTEM. DESIGN CRITERIA HAS BEEN PROVIDED FOR THESE ITEMS IN THE STRUCTURAL NOTES, PLANS AND DETAILS.
2. STRUCTURAL DEFERRED SUBMITTALS ARE COMPLETE PACKAGES TO BE SUBMITTED FOR REVIEW THAT INCLUDE DRAWINGS AND CALCULATIONS FOR ALL DELEGATED DESIGN ITEMS AND THEIR CONNECTIONS. DEFERRED SUBMITTALS SHALL BEAR THE STAMP AND SIGNATURE OF THE DESIGN PROFESSIONAL RESPONSIBLE FOR THEIR DESIGN.
3. THE REVIEW OF STRUCTURAL DEFERRED SUBMITTALS IS TO VERIFY DESIGN CRITERIA AND FOR COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
4. STRUCTURAL DELEGATED DESIGN COMPONENTS SHALL NOT BE INSTALLED UNTIL APPROVED BY THE BUILDING OFFICIAL.
5. STRUCTURAL DELEGATED DESIGN ITEMS REQUIRING DEFERRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO:
   - METAL PAN STAIRS
   - GLULAM MEMBERS AND CONNECTIONS

SPECIAL INSPECTIONS

1. REFER TO SPECIFICATION SECTION 01 45 33 "CODE REQUIRED SPECIAL INSPECTIONS AND PROCEDURES" FOR THE REQUIRED SPECIAL INSPECTIONS.

A01

ABBREVIATION LIST

AB	ANCHOR BOLT (ROD)
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ARCH	ARCHITECTURAL
BLDG	BUILDING
BRG	BEARING
BP(##)	BASE PLATE CALL-OUT
CF	COLD-FORMED
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLR	CLEAR (DISTANCE)
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
DBA	DEFORMED BAR ANCHOR
DEMO	DEMOLITION / DEMOLISH
DIA	DIAMETER
DWG	DRAWING
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EF	EACH FACE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EQ	EQUAL
EW	EACH WAY
EWEF	EACH WAY EACH FACE
EXP	EXPANSION
EXT	EXTERIOR
EXTG	EXISTING
FD	FLOOR DRAIN
FLR	FLOOR
FV	FIELD VERIFY
F(##)	FOOTING CALL-OUT
GA	GAUGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GLB	GLUE-LAMINATED BEAM(S)
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HWS	HEADED WELDED STUD(S)
IF	INSIDE FACE
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSL	LAMINATED STRAND LUMBER
LTWT	LIGHTWEIGHT
LVL	LAMINATED VENEER LUMBER
LW	LONG WAY
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NA	NOT APPLICABLE
NTS	NOT TO SCALE
OC	ON CENTER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
PC	PRECAST / PRESTRESSED
PCI	POUNDS PER CUBIC INCH
PDF	POUNDS PER CUBIC FOOT
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PROJ	PROJECTION
PSF	POUNDS PER CUBIC FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRE (POST) -TENSIONED
P(#)	PIER CALL-OUT
RD	ROOF DRAIN
REINF	REINFORC(ED)(ING)
RTU	ROOF TOP UNIT
SIM	SIMILAR
SOG	SLAB-ON-GRADE
SPA	SPAC(ES)(ED)(ING)
SPEC	SPECIFICATION(S)
SQ	SQUARE
SS	STAINLESS STEEL
SW	SHORT WAY
TL	TOP OF LEDGE
TP	TOP OF PIER
TW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
WP	WORKING POINT
WWF	WELDED WIRE FABRIC

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:
ONEIDA Total Integrated Enterprises
www.otie.com Job Number 2025014
Office 608.243.6470 Fax 608.241.3914
5100 Eastpark Blvd, Suite 300,
Madison, Wisconsin 53718

Project Title: TREMPEALEAU PARK SHELTER

Project Location:

Sheet Title: STRUCTURAL NOTES

HSR Project Number: 25013

Project Date: JANUARY 2026

Drawn By: AWB

Key Plan:

BID SET

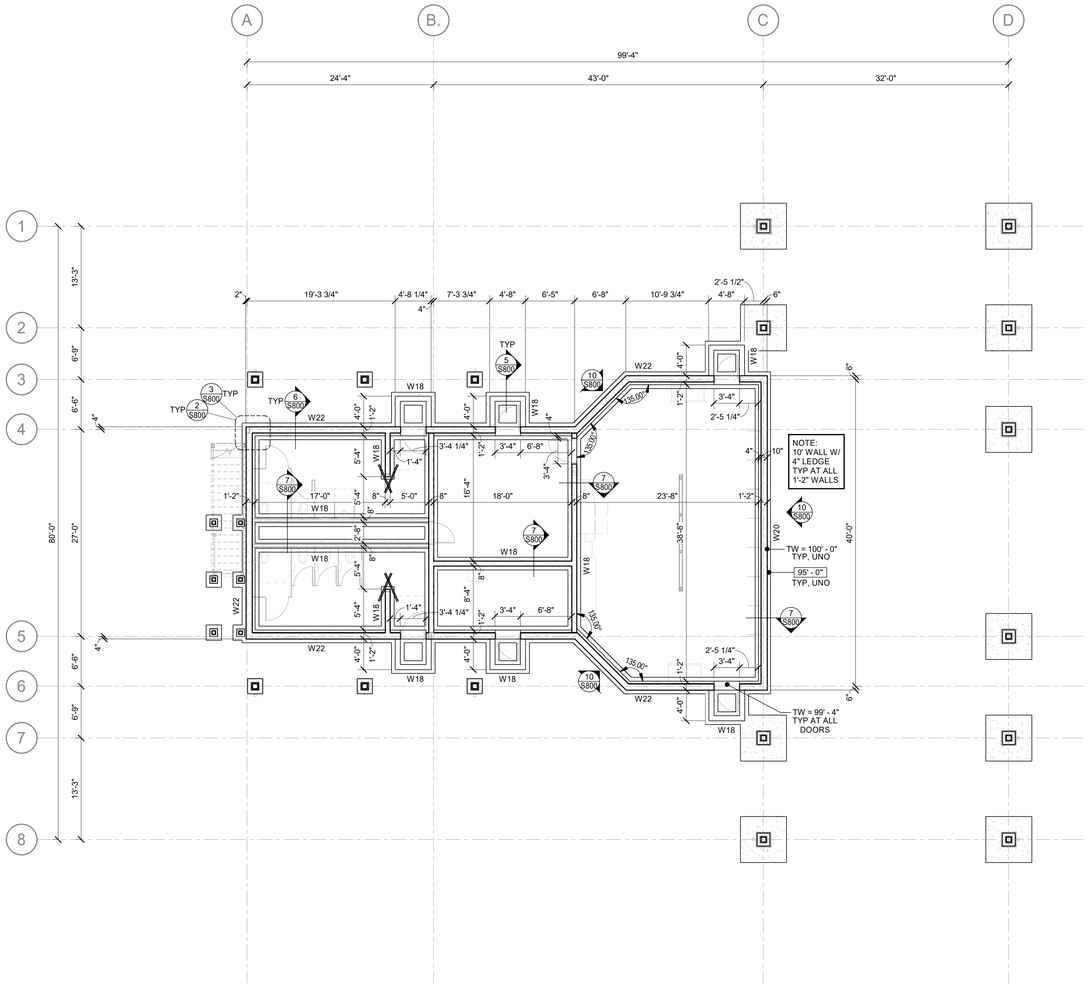
Revisions:

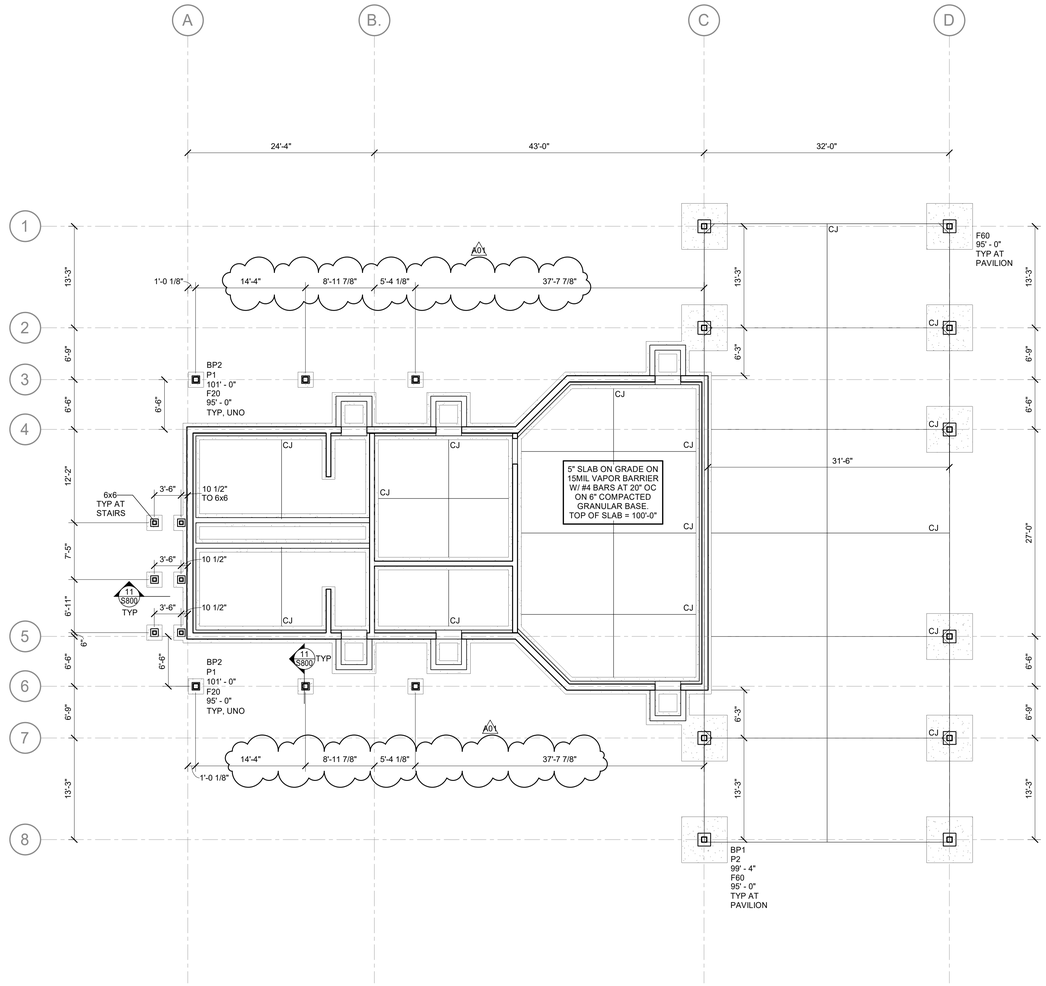
No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: VARIES

Last Update: 1/9/2026 10:14:30 AM

S001





1 FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 12'

2 FIRST FLOOR COLUMN LAYOUT AND CONTROL JOINTS

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 12'

FOUNDATION PLAN NOTES:

1. SEE S800 FOR TYPICAL DETAILS AND S001 FOR DESIGN CRITERIA.
2. TYPICAL WHERE SLAB ABUTS COLUMN OR WALL, PROVIDE 1/2" x SLAB WIDTH ISOLATION FILLER STRIP. SET STRIP 1/4" BELOW FINISHED SLAB ELEVATION.
3. AVOID SITUATIONS WHERE CONTROL JOINTS ARE DISCONTINUOUS ACROSS AN ADJACENT JOINT BUT WHERE ABSOLUTELY NECESSARY, PROVIDE (2) #4 x 5'-0" LONG BARS IN UNBROKEN SLAB AT THIS T-INTERSECTION WITH THE UNDERSTANDING THAT BARS WILL LIMIT CRACK WIDTH BUT NOT PREVENT IT.
4. CONTROL JOINTS PLACED AT COLUMN LINES WHERE LAYOUT PERMITS. JOINT SPACING 2 TO 3 TIMES THE SLAB THICKNESS (INCHES) AS FEET ON CENTER (MAXIMUM OF 12'-0" ON CENTER). RESULTING PANEL ASPECT RATIO LESS THAN 1.5 AND ACUTE ANGLES LESS THAN 45 DEGREES AVOIDED. SEE 1/S800 FOR JOINT INFORMATION. ALL JOINTS SHALL BE EPOXY FILLED.
5. AT RE-ENTRANT CORNERS THAT DO NOT HAVE CONTROL JOINTS (E.G. STAIRS, ELEVATORS, LOADING DOCKS, ETC.) (2) #4 x 5'-0" LONG BARS CENTERED IN SLAB, DIAGONAL TO CORNER PROVIDED.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

ONEIDA Total Integrated Enterprises
www.otie.com Job Number 2025014
Office 608.243.6470 Fax 608.241.3914
5100 Eastpark Blvd, Suite 300,
Madison, Wisconsin 53718

Project Title: **TREMPEALEAU PARK SHELTER**

Project Location:

Sheet Title: **FOUNDATION PLAN**

HSR Project Number: **25013**

Project Date: **JANUARY 2026**

Drawn By: **AWB**

Key Plan:

BID SET

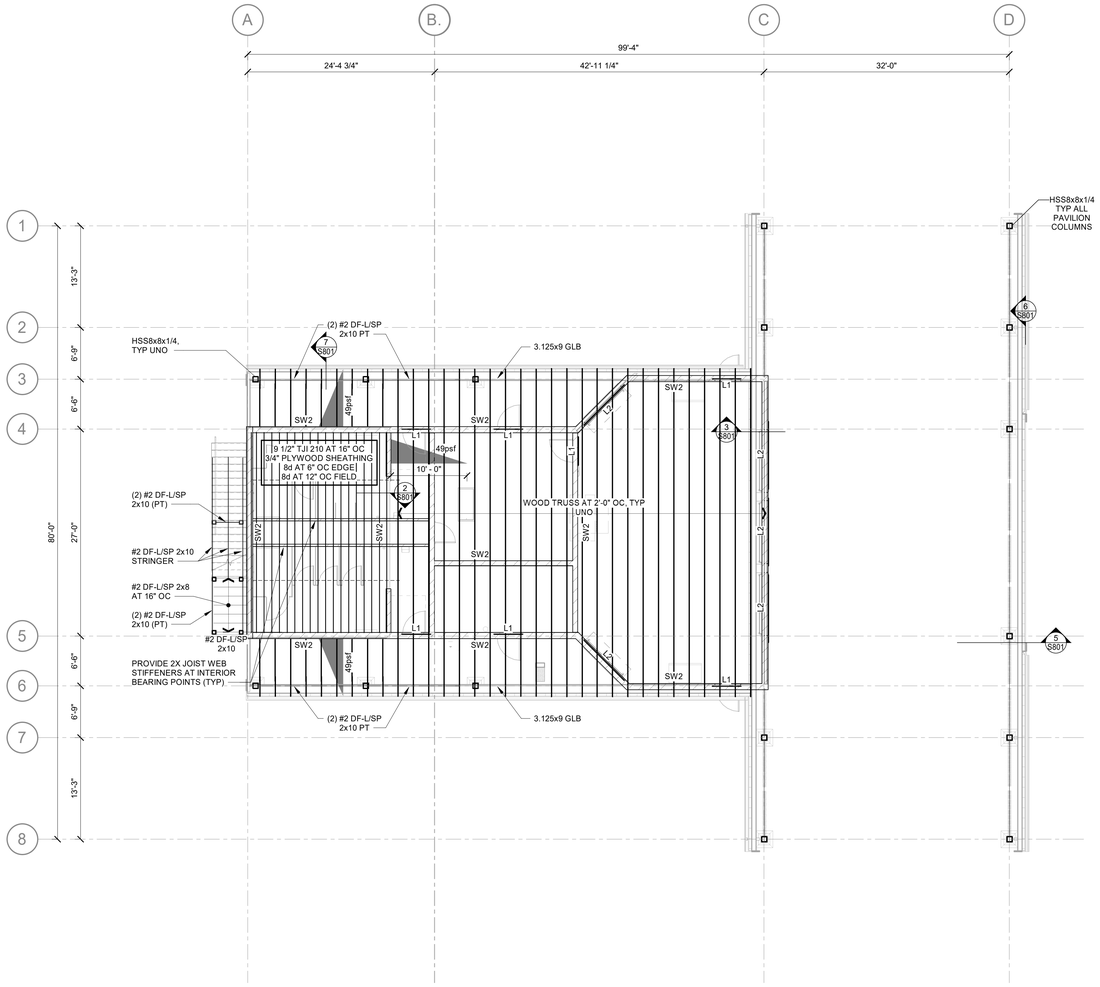
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: **1/9/2026 10:14:33 AM**

S100



1 PRESSBOX

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 12'

ROOF WOOD FRAMING NOTES

1. PROVIDE SQUASH BLOCKS AT CONCENTRATED LOADS PER MANUFACTURER'S RECOMMENDATIONS.
2. SECURE ROOF TRUSSES AT EACH BEARING WITH SIMPSON H2.5T MINIMUM.
3. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOAD: TOP CHORD: LIVE LOAD = 20 psf, DEAD LOAD = 15 psf. BOTTOM CHORD: DEAD LOAD = 10 psf. TRUSS DESIGNER TO ANALYZE TRUSSES FOR AN UNBALANCED ROOF SNOW LOAD PER DIAGRAM:
4. TRUSS SUPPLIER SHALL DESIGN AND SUPPLY ALL TRUSS TO TRUSS AND TRUSS TO BEARING CONDITIONS FOR BOTH GRAVITY AND UPLIFT CONDITIONS.
5. GIRDER TRUSSES ARE NOTED ON THE PLAN BUT DO NOT INDICATE THE NUMBER OF PLY'S. TRUSS DESIGNER TO DETERMINE NUMBER OF PLY'S REQUIRED TO CARRY THE APPROPRIATE LOADING AND TO PREVENT CRUSHING OF ANY BEARING PLATES. GIRDER TRUSSES TO BEAR AT LOCATIONS NOTED ON PLANS.
6. ROOF TRUSSES ARE DESIGNED BY OTHERS.
7. VERIFY ROOF TRUSS SPACING WITH TRUSS DESIGNER.
8. BLOCK SOLID ALL GIRDER TRUSS BEARING LOCATIONS DOWN TO THE PRECAST OR FOUNDATION.

ROOF DESIGN CRITERIA

ROOF LIVE LOAD	20 psf INCLUDING PARTITION
GROUND SNOW LOAD	50 psf
SLOPED ROOF SNOW LOAD	38.5 psf (MAIN ROOF) 42 psf (PAVILION ROOF)
ROOF CUT	SEE ARCH
DEFLECTION CRITERIA	DL+LL = L/240 LL = L/360
STRUCTURAL ROOF PANELS	
SPAN RATING	24/16
NOMINAL THICKNESS	3/4"
EXPOSURE RATING	EXP 1
GRADE	OSB SHEATHING
NAILING:	8d AT 6" OC AT EDGES AND 12" OC AT INTERMEDIATE FRAMING MEMBERS.
PERGOLA ROOF PANELS	
SPAN RATING	48" O.C.
NOMINAL THICKNESS	1 1/8" TONGUE AND GROOVE
EXPOSURE RATING	EXP 1
GRADE	SHEATHING
NAILING	8d AT 6" OC AT EDGES AND 12" OC AT INTERMEDIATE FRAMING MEMBERS

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

ONEIDA Total Integrated Enterprises
www.otie.com Job Number 2025014
Office 608.243.6470 Fax 608.241.3914
5100 Eastpark Blvd, Suite 300,
Madison, Wisconsin 53718

Project Title: TREMPEALEAU PARK SHELTER

Project Location:

Sheet Title: PRESSBOX

HSR Project Number: 25013

Project Date: JANUARY 2026

Drawn By: AWB

Key Plan:

BID SET

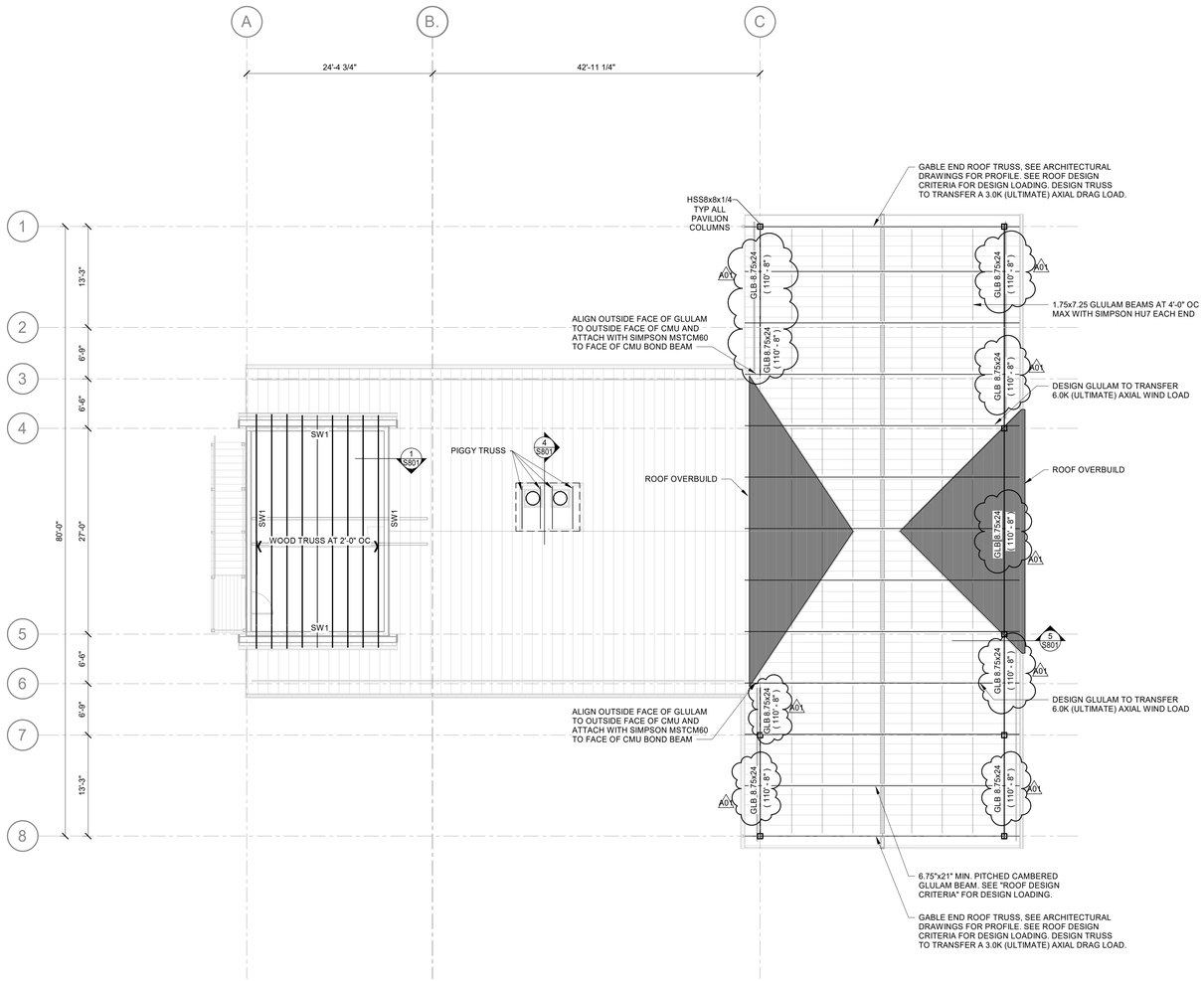
Revisions:

No.	Description	Date

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: 1/9/2026 10:14:34 AM

S101



1 PRESSBOX AND PAVILION

SCALE: 1/8" = 1'-0"

0 2' 4' 8' 12'

ROOF WOOD FRAMING NOTES

1. PROVIDE SQUASH BLOCKS AT CONCENTRATED LOADS PER MANUFACTURER'S RECOMMENDATIONS.
2. SECURE ROOF TRUSSES AT EACH BEARING WITH SIMPSON H2.5T MINIMUM.
3. TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING LOAD: TOP CHORD: LIVE LOAD = 20 psf, DEAD LOAD = 15 psf. BOTTOM CHORD: DEAD LOAD = 10 psf. TRUSS DESIGNER TO ANALYZE TRUSSES FOR AN UNBALANCED ROOF SNOW LOAD PER DIAGRAM:
4. TRUSS SUPPLIER SHALL DESIGN AND SUPPLY ALL TRUSS TO TRUSS AND TRUSS TO BEARING CONDITIONS FOR BOTH GRAVITY AND UPLIFT CONDITIONS.
5. GIRDER TRUSSES ARE NOTED ON THE PLAN BUT DO NOT INDICATE THE NUMBER OF PLY'S. TRUSS DESIGNER TO DETERMINE NUMBER OF PLY'S REQUIRED TO CARRY THE APPROPRIATE LOADING AND TO PREVENT CRUSHING OF ANY BEARING PLATES. GIRDER TRUSSES TO BEAR AT LOCATIONS NOTED ON PLANS.
6. ROOF TRUSSES ARE DESIGNED BY OTHERS.
7. VERIFY ROOF TRUSS SPACING WITH TRUSS DESIGNER.
8. BLOCK SOLID ALL GIRDER TRUSS BEARING LOCATIONS DOWN TO THE PRECAST OR FOUNDATION.

ROOF DESIGN CRITERIA

ROOF LIVE LOAD	20 psf INCLUDING PARTITION
GROUND SNOW LOAD	50 psf
SLOPED ROOF SNOW LOAD	38.5 psf (MAIN ROOF) 42 psf (PAVILION ROOF)
ROOF CUT	SEE ARCH
DEFLECTION CRITERIA	DL+LL = L/240 LL = L/360
STRUCTURAL ROOF PANELS	
SPAN RATING	24/16
NOMINAL THICKNESS	3/4"
EXPOSURE RATING	EXP 1
GRADE	OSB SHEATHING
NAILING:	8d AT 6" OC AT EDGES AND 12" OC AT INTERMEDIATE FRAMING MEMBERS.
PERGOLA ROOF PANELS	
SPAN RATING	48" O.C.
NOMINAL THICKNESS	1 1/8" TONGUE AND GROOVE
EXPOSURE RATING	EXP 1
GRADE	SHEATHING
NAILING	8d AT 6" OC AT EDGES AND 12" OC AT INTERMEDIATE FRAMING MEMBERS

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

ONEIDA Total Integrated Enterprises
www.otie.com Job Number 2025014
Office 608.243.6470 Fax 608.241.3914
5100 Eastpark Blvd, Suite 300,
Madison, Wisconsin 53718

Project Title: **TREMPEALEAU PARK SHELTER**

Project Location:

Sheet Title: **PRESSBOX AND PAVILION ROOF**

HSR Project Number: **25013**

Project Date: **JANUARY 2026**

Drawn By: **AWB**

Key Plan:

BID SET

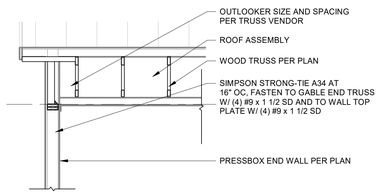
Revisions:

No.	Description	Date
A01	Addendum 1	01-08-26

Graphic Scale: 0' 2' 4' 8' 12'

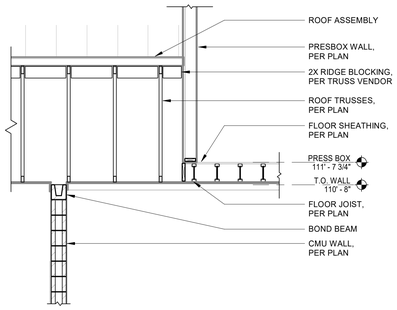
Last Update: **1/9/2026 10:14:36 AM**

S102



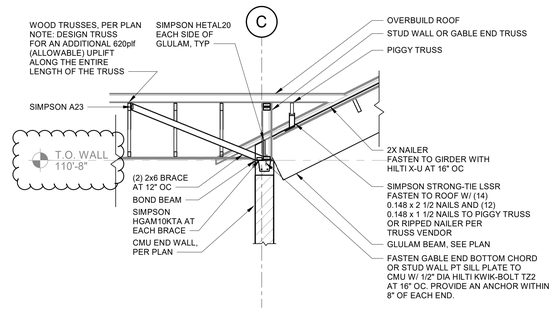
1 TRUSSES AT PRESSBOX ROOF

SCALE: 3/8" = 1'-0"



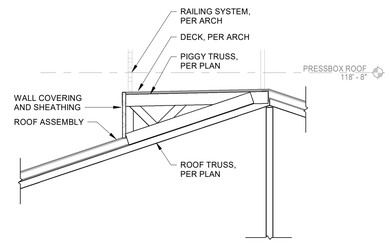
2 HEIGHT CHANGE AT PRESSBOX

SCALE: 3/8" = 1'-0"



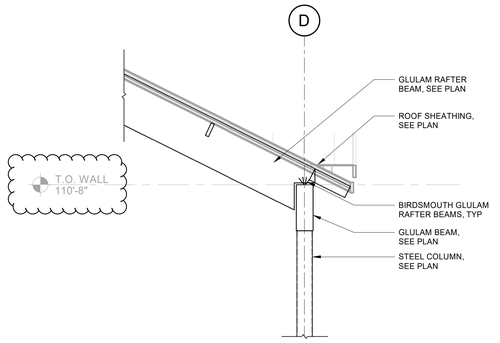
3 MAIN BUILDING TO PAVILION

SCALE: 3/8" = 1'-0"



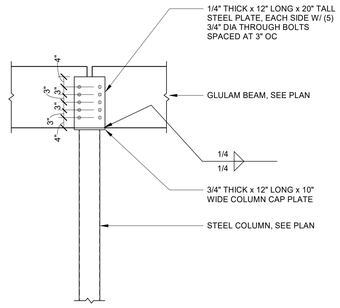
4 PIGGY TRUSS AT PLATFORM

SCALE: 3/8" = 1'-0"



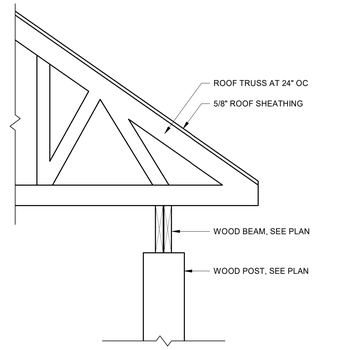
5 RAFTER BEAMS DETAIL

SCALE: 3/8" = 1'-0"



6 GLULAM CONNECTION DETAIL

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



7 AREA A TYP TRUSS BEARING

SCALE: 1" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

ONEIDA Total Integrated Enterprises
www.otie.com Job Number 2025014
Office 608.243.6470 Fax 608.241.3914
5100 Eastpark Blvd, Suite 300,
Madison, Wisconsin 53718

Project Title: **TREMPEALEAU PARK SHELTER**

Project Location:

Sheet Title: **STRUCTURAL DETAILS**

HSR Project Number: **25013**

Project Date: **JANUARY 2026**

Drawn By: **AWB**

Key Plan:

BID SET

Revisions:

No.	Description	Date
A01	Addendum 1	01/08/26

Graphic Scale: **VARIES**

Last Update: **1/9/2026 10:14:40 AM**

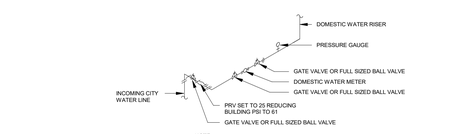
S801

FIXTURE UNIT SUMMARY

FIXTURE SYMBOL	FIXTURE DESCRIPTION	COUNT	PIPE SIZE WASTE	PIPE SIZE VENT	PIPE SIZE CW	PIPE SIZE HW	FIXTURE UNITS DFU	FIXTURE UNITS CWFU	FIXTURE UNITS HWFU
DF-1	DRINKING FOUNTAIN	1	1 1/2"	1 1/2"	1/2"		0.5	0.25	0
DF-2	DRINKING FOUNTAIN - BOTTLE FILLER	1	1 1/2"	1 1/2"	1/2"		0.5	0.25	0
FD-1	FLOOR DRAIN - SQUARE	6	3"	1 1/2"			18	0	0
GI-1	GREASE INTERCEPTOR	1					0	0	0
HB-1	HOSE BIBB	6			1/2"		0	0	0
HYD-1	EXTERIOR WALL HYDRANT	2			3/4"		0	8	0
L-1	LAVATORY - WALL HUNG - ADA	4	1 1/2"	1 1/2"	1/2"	1/2"	4	2	2
MB-1	MOP BASIN	1	3"	2"	3/4"	3/4"	3	2	2
S-1	SINK - 3 COMPARTMENT	1	2"	1 1/2"	1/2"	1/2"	3	3	3
UR-1	URINAL - WALL HUNG	1	2"	1 1/2"	3/4"		2	2	0
UR-1A	URINAL - WALL HUNG - ADA	1	2"	1 1/2"	3/4"		2	2	0
WC-1	WATER CLOSET - WALL MOUNT	4	4"	2"	1"		24	26	0
WC-1A	WATER CLOSET - WALL HUNG - ADA	2	4"	2"	1"		12	13	0
WCO-1	WALL CLEANOUT	2					0	0	0
Grand total: 33							69	58.5	7

A01

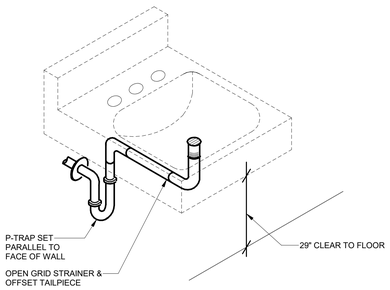
PLUMBING SHEET INDEX



NOTE:
GRAPHICAL REPRESENTATION ONLY.
SEE PLAN FOR PIPE ROUTING.

1 WATER SERVICE ENTRANCE RISER

3/32" = 1'-0"

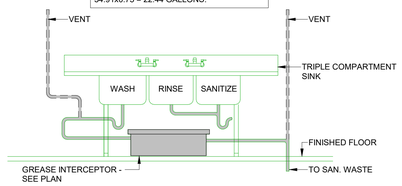


NOTE:
PROVIDE SAME WASTE PIPE TRAP CONFIGURATION FOR LAY-IN COUNTERTOP LAVATORIES WITH OPEN SPACE BELOW COUNTER

2 BARRIER FREE LAVATORY DETAIL

12" = 1'-0"

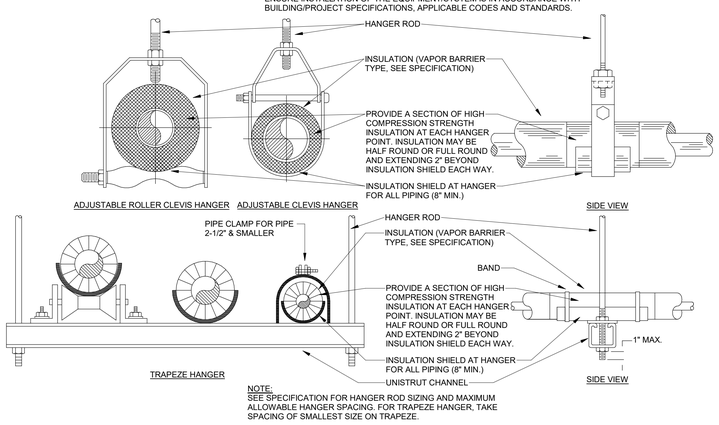
SINK BASIN SIZE 24"x24"x12" = 6912 CU IN.
8064/231 = 29.92 GALLONS.
34.91x0.75 = 22.44 GALLONS.



3 UNDERSINK GREASE INTERCEPTOR

3/32" = 1'-0"

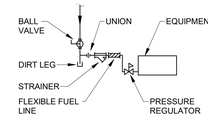
NOTE:
THIS INFORMATION MAY NOT CONTAIN ALL DETAILS REQUIRED FOR CONSTRUCTION. APPROPRIATE MODIFICATION MAY BE REQUIRED TO ENSURE SUITABILITY OF THESE DRAWINGS FOR THE SPECIFIC APPLICATION. IT IS THE USER'S RESPONSIBILITY TO ENSURE INSTALLATION OF THE EQUIPMENT/SYSTEM IS IN ACCORDANCE WITH BUILDING/PROJECT SPECIFICATIONS, APPLICABLE CODES AND STANDARDS.



NOTE:
SEE SPECIFICATION FOR HANGER ROD SIZING AND MAXIMUM ALLOWABLE HANGER SPACING. FOR TRAPEZE HANGER, TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

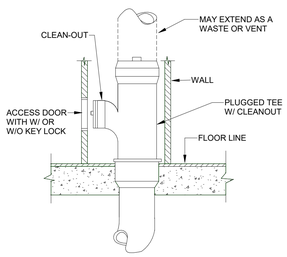
4 PIPE HANGER DETAIL

1/8" = 1'-0"



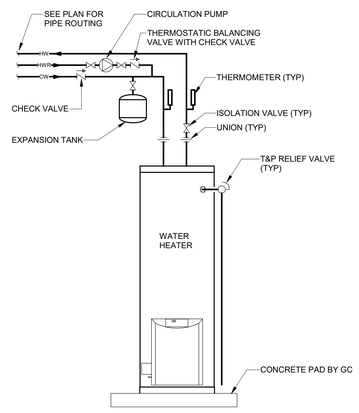
5 GAS PIPING DETAIL

1/8" = 1'-0"



6 WALL CLEAN-OUT DETAIL

3/32" = 1'-0"



7 WATER HEATER DETAIL

12" = 1'-0"

DRAIN, WASTE, VENT SPECS:

SECTION: DRAIN, WASTE, VENT SYSTEMS

PIPING (NON-PLENUM APPLICATIONS):
1. POLYVINYL CHLORIDE (PVC).
2. PIPE: SCHEDULE 40, CLASS 12454 (PVC 1120), ASTM D1785
3. FITTINGS: DRAIN, WASTE AND VENT (DWV) PATTERN FITTINGS, ASTM D2665; SOCKET FITTING PATTERNS, ASTM D3311.
4. JOINTS: PRIMER, LOW VOC, ASTM F656; SOLVENT CEMENT, LOW VOC, ASTM D2564

PIPING (PLENUM APPLICATIONS):
1. CAST IRON:
2. PIPE: HUBLESS CAST IRON PIPE, ASTM A-888, CISPI 301, NSF CERTIFIED.
3. JOINTS: CAST IRON COUPLINGS WITH NEOPRENE GASKETS AND STAINLESS STEEL BOLTS AND NUTS, ASTM A-1056, MG COUPLINGS OR EQUAL

INSTALLATION
1. INSTALL PLASTIC PIPE AND FITTINGS AS RECOMMENDED BY MANUFACTURER. INCLUDE ADEQUATE OFFSETS OR EXPANSION JOINTS TO ALLOW FOR PIPE EXPANSION.
2. DO NOT INSTALL PLASTIC PIPE IN PLENUM SPACE.
3. INSTALL CAST IRON PIPE AND FITTINGS AS RECOMMENDED BY CISPI IN THEIR PUBLICATION "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS".
4. SUPPORT CAST IRON PIPING AT EVERY COUPLING. LOCATE HANGER WITHIN 18" OF COUPLING.

FLOOR DRAINS (FD-X):
1. BASED ON PRODUCT BY WATTS.
   A. J.R. SMITH, JOSAM, SIOUX CHIEF, WADE, ZURN ALSO ACCEPTABLE.
2. FIXTURE: WATTS 2415S - CAST IRON BODY, 6" SQUARE NICKEL BRONZE STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND "TYPE S" POLISHED NICKEL BRONZE, SQUARE HEEL-PROOF, LIGHT-DUTY STRAINER

FLOOR CLEANOUT (FCO-X):
1. BASED ON PRODUCT BY WATTS.
   A. J.R. SMITH, JOSAM, SIOUX CHIEF, WADE, ZURN ALSO ACCEPTABLE.
2. FIXTURE: WATTS Z1400-BZ1 - CAST IRON BODY, ADJUSTABLE COVER, NICKEL BRONZE TOP

WALL CLEANOUT (WCO-X):
1. BASED ON PRODUCT BY WATTS.
   A. J.R. SMITH, JOSAM, SIOUX CHIEF, WADE, ZURN ALSO ACCEPTABLE.
2. FIXTURE: WATTS Z1466 - STAINLESS STEEL COVER, SECURING SCREW AND BRONZE RAISED HEX HEAD PLUG. VERIFY SCREW LENGTH WITH WALL THICKNESS.

NATURAL GAS SPECIFICATIONS:

SECTION: GAS PIPING

PIPING:
1. ABOVE FLOOR (OVER 5 PSI)
   A. SCHEDULE 40 BLACK STEEL PIPE WITH 150 PSI STEEL WELD FITTINGS.
2. PIPING ABOVE FLOOR (UNDER 5 PSI)
   A. SCHEDULE 40 BLACK STEEL PIPE WITH 150 PSI MALLEABLE IRON SCREW FITTINGS.
   B. COPPER TUBING TYPE K OR L (HARD) CONFORMING WITH ASTM B88 WHEN GAS CONTAINS LESS THAN 0.3 GRAINS OF HYDROGEN SULFIDE PER 100 STANDARD CUBIC FEET. WITH COPPER WROUGHT SWEAT FITTINGS EMPLOYING 1000°F SOLDERING OR BRAZING FILLER MATERIAL.

GAS PRESSURE REGULATOR:
1. BASED ON PRODUCT BY MAXITROL (APPLIANCE).
   A. PIETRO FIORENTINI GOVERNOR EQUALS ARE ACCEPTABLE.

EXECUTION:
1. ALL GAS PIPING WITH GAS PRESSURES OVER 2 PSI OR 2 ½" AND LARGER) SHALL BE WELDED. SEAMLESS WELDING FITTINGS SHALL BE USED, EXCEPT THAT WELDING NIPPLES (WELDOLETS, THREADOLETS OR PIPE-O-LETS. 250# MINIMUM W.P.) MAY BE USED FOR BRANCH TAKE-OFFS UP TO ONE-HALF (1/2) THE DIAMETER OF THE MAIN.
2. PIPING 2" AND SMALLER WITH GAS PRESSURES 2 PSI OR LESS MAY BE SCREWED USING TAPER PIPE THREADS PER ANSI/ASME B1.20.1. THREAD COMPOUNDS SHALL BE RESISTANT TO THE ACTION OF GAS BEING USED AND APPLIED TO THE MALE THREADS ONLY.
3. REGULATOR MUST BE MOUNTED IN A HORIZONTAL UPRIGHT POSITION.

GAS REGULATOR SCHEDULE

MARK	GAS LOAD (MBH)	MANUFACTURER MODEL #
GR-1	100	MAXITROL 325-3
GR-2	325	MAXITROL 325-5
GR-3	1,250	MAXITROL 325-7A
GR-4	2,250	MAXITROL 325-9
GR-5	4,500	MAXITROL 325-11

NOTE: PROVIDE VENT LIMITING DEVICES FOR ALL GAS REGULATORS

DOMESTIC WATER SPECIFICATIONS:

SECTION: DOMESTIC WATER

BELOW FLOOR PIPING:
1. DUCTILE IRON PRESSURE TYPE WATER PIPE AND FITTINGS.
2. TYPE K (SOFT) COPPER WITH COPPER WROUGHT SWEAT FITTINGS.
3. CHLORINATED POLYVINYL CHLORIDE (CPVC) PRESSURE PIPE AND FITTINGS.

ABOVE FLOOR PIPING:
1. COPPER TUBE: TYPE L, HARD DRAWN, ASTM B88
2. FITTINGS:
   A. CAST COPPER ALLOY, SOLDER JOINT, PRESSURE RATED, ANSI B16.18
   B. WROUGHT COPPER, SOLDER JOINT, PRESSURE RATED, ANSI B16.22
   C. COPPER, PRESS FIT JOINT: EPDM O-RING, ANSI B16.51. 0° - 250°F. MAXIMUM 200 PSI. PROPRESS BY VIEGA, APOLLOPRESS BY APOLLO FLOW CONTROLS OR PRESSYSTEM BY NIBCO.
3. JOINTS:
   A. LEAD FREE (<0.2%) SOLDER, ASTM B32; FLUX, ASTM B813
   B. PRESS FIT JOINT, EPDM O-RING, MADE WITH ELECTRO-HYDRAULIC CRIMPING TOOL AND JAW CORRECT FOR PIPE SIZE.

VALVES:
1. PRESS SYSTEM VALVES:
   A. NIBCO, APOLLO.
   B. BALL VALVES - 2" AND SMALLER, NIBCO #PF-585-70 (MALE END) OR PS-585-70 (FEMALE END), FULL PORT TWO PIECE (1/2" - 2" SIZES), PTFE STEM PACKING, GLAND NUT, BRONZE BODY (LESS THAN 15% ZINC), CHROME PLATED BALL, REINFORCED TEFLON SEATS (RTFE), BLOW-OUT PROOF STEM, ADJUSTABLE PACKING GLAND, 600 PSI WOG, 250°F MAXIMUM OPERATING TEMPERATURE.
2. BALL VALVES:
   A. APOLLO, CRANE, HAMMOND, JOMAR, KITZ, MILWAUKEE, NIBCO, VIEGA PROPRESS, WATTS.
   B. STANDARD PORT TWO-PIECE (1/2" - 4" SIZES), APOLLO #70LF-100 SERIES, THREADED ENDS OR APOLLO #70LF-200 SERIES, SOLDER ENDS, RPTFE STEM PACKING, GLAND NUT, LEAD FREE BRONZE BODY (LESS THAN 15% ZINC), CHROMIUM PLATED LEAD FREE BRASS BALL, LEAD FREE BRASS STEM, REINFORCED TEFLON SEATS (RPTFE), 600 PSI CWP. ALL MATERIALS IN CONTACT WITH POTABLE WATER SHALL NOT CONTAIN MORE THAN 0.25% LEAD CONTENT PER SDWA 1417(A)(1)(A) - 2011. NSF/ANSI STANDARD 372 "LEAD FREE" ANSI 3RD PARTY CERTIFIED. MAXIMUM TEMPERATURE RATING SHALL BE 270°F.
3. PROVIDE 1-1/4" STEM EXTENSIONS ON ALL HOT WATER PIPING INSULATED WITH MORE THAN 1/2" THICK INSULATION.
4. PROVIDE 1-1/4" STEM EXTENSIONS ON ALL INSULATED COLD WATER PIPING.
   A. INCLUDE A NON-ROTATING SLEEVE WITH CAP AROUND THE STEM EXTENSIONS ON ALL INSULATED COLD WATER PIPING TO FACILITATE VAPOR BARRIER SEAL, SIMILAR TO:
      a. MILWAUKEE "H" STEM EXTENSION WITH EXTERNAL PLASTIC SHIELD, OR
      b. APOLLO "THERMAL-SEAL" INSULATING TEE HANDLE, OR
      c. NIBCO "NIB-SEAL" INSULATED-HANDLE WITH EQUIVALENT BALL VALVES, OR
      d. NIBCO "CS" EXTENDED LEVER HANDLE.

FLUSHING:
1. BUILDING DOMESTIC COLD WATER AND HOT WATER PIPING SHALL BE CLEANED AND FLUSHED SO AS TO BE FREE OF ALL THREAD CUTTING OIL, THREAD CHIPS, SOLDER RESIDUE, SHAVINGS AND OTHER FOREIGN MATTER. AFTER CLEANING AND FLUSHING, THE PIPING SYSTEM SHALL BE DISINFECTED.
2. REMOVE SCREENS FROM ALL IN-LINE STRAINERS EXCEPT THOSE AT PUMP STATION.
3. OPEN ALL CONTROL VALVE TO FULLY OPEN POSITION.
4. FLUSH TO OBTAIN FLOW OF CLEAN WATER.

TESTING - POTABLE WATER
1. AFTER PORTIONS OF THE POTABLE WATER SYSTEMS WORK ARE COMPLETED, THE WORK SHALL BE HYDROSTATICALLY TESTED IN THE PRESENT OF THE ARCHITECT'S AND OWNER'S REPRESENTATIVES AND OTHER AUTHORITIES OF JURISDICTION. FIVE DAYS NOTICE OF THE TESTS SHALL BE GIVEN TO THE ARCHITECT AND OWNER. FURNISH ALL PUMPS, GAGES, INSTRUMENTS, TEST EQUIPMENT AND PERSONNEL REQUIRED FOR THESE TESTS AND MAKE ALL PROVISIONS FOR REMOVAL OF TEST EQUIPMENT.
2. VENT ALL AIR FROM THE SYSTEM FOR HYDROSTATIC TESTING.
3. IN THE CASE OF THE HYDROSTATIC TEST WITH WATER, THE TEST PRESSURE SHALL BE 100 PSIG OR 1-1/2 X MAXIMUM WORKING PRESSURE, WHICHEVER IS THE GREATER. TEST PRESSURE SHALL BE HELD WITH NO NOTICEABLE LOSS IN PRESSURE WHILE ALL JOINTS ARE VISUALLY INSPECTED FOR LEAKS. WATER TEMPERATURE SHALL NOT EXCEED 100 DEGREE.

DISINFECTION:
1. DISINFECT THE DOMESTIC WATER SYSTEM TO THE OWNER'S SATISFACTION, WITH BLEACH OR CHLORINE GAS. AFTER DISINFECTING, FLUSH THE SYSTEM AS HEREIN BEFORE DESCRIBED UNDER FLUSHING.
2. PROVIDE NIPPLES AND VALVES AS REQUIRED TO INTRODUCE DISINFECTANT AND WATER.
   FILL THE SYSTEM UNIFORMLY WITH A DISINFECTION SOLUTION OF 100 PPM AVAILABLE CHLORINE. THE DISINFECTANT SHALL BE RETAINED ON LESS THAN 24 HOURS. AS AN ALTERNATE, A SOLUTION OF 300 PPM HELD FOR 3 HOURS IS ALSO ACCEPTABLE. AFTER THE HOLDING PERIOD, A TEST FOR RESIDUAL CHLORINE SHALL BE MADE. IF NONE IS FOUND, THE SYSTEM SHALL BE DRAINED AND THE DISINFECTION PROCEDURE REPEATED. WHEN A POSITIVE RESIDUAL CHLORINE TEST IS ACCOMPLISHED, THE SYSTEM SHALL BE FLUSHED WITH POTABLE WATER AND PUT INTO OPERATION.

SECTION: PIPE INSULATION

1. INSULATION SHALL BE PROVIDED ON ALL DOMESTIC WATER PIPING AS FOLLOWS:
   A. FIBERGLASS PIPE INSULATION WITH MINIMUM NOMINAL DENSITY OF 3 LBS. PER CU. FT., AND THERMAL CONDUCTIVITY OF NOT MORE THAN 0.23 AT 75 DEGREES F MEAN TEMPERATURE, SUITABLE FOR TEMPERATURES TO 450 DEGREES F WITH VAPOR BARRIER JACKET.
   B. INSTALL AS RECOMMENDED TO MANUFACTURER RECOMMENDATIONS.
   C. HANGERS ON ALL WATER PIPING SHALL BE OVERSIZED FOR PIPE INSULATION AND SHALL NOT BE INSULATED.
   D. EXISTING PIPING INSULATION DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION.

SERVICE	INSULATION TYPE	PIPE SIZE	INSULATION THICKNESS
HOT WATER	RIGID FIBERGLASS	2" AND SMALLER	1"
COLD WATER	RIGID FIBERGLASS	2" AND SMALLER	1"

FIXTURE SPECIFICATIONS:

LAVATORY (L-X):
1. FIXTURE: KOHLER GREENWICH NO. K-2031, VITREOUS CHINA, WALL HUNG, 20 X 18, SINGLE FAUCET HOLE, BACKSPLASH, OVERFLOW, ADA COMPLIANT, MOUNT RIM 34" ABOVE FLOOR.
2. FAUCET: CHICAGO 2200-E2805ABCP, MANUAL LAVATORY FAUCET, SINGLE LEVER, HOT WATER LIMIT STOP, 0.5 GPM AERATOR, CERAMIC CARTRIDGE, ADA COMPLIANT.
3. DRAIN/TRAP: INSULATED, OFFSET DRAIN AND TRAP, KOHLER NO. K-7129-A-CP GRID STRAINER.
4. SUPPLIES, STOPS: LOOSE KEY ANGLE STOPS, CHROME PLATED ESCUTCHEONS, CHROME PLATED COPPER RISER SUPPLIES.
5. SUPPORT: EPOXY COATED STEEL UPRIGHTS WELDED TO STEEL BASES, FASTEN TO FLOOR.

URINAL (UR-1):
1. FIXTURE: KOHLER BARDON K-4991-ET, WALL HUNG, WHITE VITREOUS CHINA, WASHOUT, 3/4" TOP SPUD, 0.5 GPF, STANDARD HEIGHT.
2. FLUSH VALVE: SLOAN ROYAL 111-1.28, MANUALLY OPERATED, DIAPHRAGM VALVE TYPE, CHROME FINISH, LEVER ON WIDE SIDE
3. SUPPORT: EPOXY COATED STEEL UPRIGHTS WELDED TO STEEL BASES, FASTEN TO FLOOR.

URINAL (UR-1A):
1. SAME AS UR-1, INSTALL AT ADA RIM HEIGHT.

WATER CLOSET (WC-1):
1. FIXTURE: KOHLER KINGSTON ULTRA NO. K-84325, WALL HUNG, WHITE VITREOUS CHINA, ELONGATED BOWL, 1.28 GPF, 2 1/8" TRAPWAY, 1 1/2" TOP SPUD, STANDARD RIM HEIGHT.
2. FLUSH VALVE: SLOAN ROYAL 111-1.28, MANUALLY OPERATED, DIAPHRAGM VALVE TYPE, CHROME FINISH, LEVER ON WIDE SIDE
3. SEAT: BEMIS 1955SSCT, OPEN FRONT, ELONGATED, INJECTION MOLDED, SELF SUSTAINING CHECK WITH STAINLESS STEEL POSTS
4. SUPPORT: EPOXY COATED STEEL UPRIGHTS WELDED TO STEEL BASES, FASTEN TO FLOOR.

WATER CLOSET (WC-1A)
1. SAME AS WC-1, INSTALL AT ADA RIM HEIGHT.

MOP BASIN (MB-1):
1. FIXTURE: MUSTEE MODEL 63M, DURASTONE FIBERGLASS, INTEGRAL MOLDED-IN DRAIN, FINISH DIMENSIONS 24" X 24" X 10", 3" WASTE PIPE.
2. FAUCET: CHICAGO 305-RXCRCF, WALL-MOUNTED, MANUAL FAUCET, ROUGH CHROME FINISH, ADJUSTABLE SUPPLY ARMS; INTEGRAL SPOUT WITH PAIL HOOK, 3/4" MALE HOSE THREAD OUTLET, INCLUDE WATTS NO. 8AC HOSE CONNECTION VACUUM BREAKER.
3. ACCESSORIES: MODEL 65.600 SERVICE MOP HANGER, MODEL 65.700 SERVICE HOSE AND HOSE HOLDER, 12" HIGH STAINLESS STEEL WALL GUARD(S).

HOSE BIBB (HB-1):
1. FIXTURE: WOODFORD 26, INTERIOR HOSE BIBB WITH VACUUM BREAKER, 3/4" HOSE THREAD OUTLET, LOCK SHIELD CAP, AND REMOVABLE "TEE" HANDLE. PROVIDE SHUTOFF VALVE IN COLD WATER SUPPLY AHEAD OF HOSE BIBB. FOR WINTER DRAINING OF SYSTEM.

WALL HYDRANT (HYD-1):
1. FIXTURE: WOODFORD 67, FREEZELESS, EXTERIOR, ANTI-SIPHON, AUTOMATIC DRAINING, INTEGRAL VACUUM BREAKER, 3/4 INCH INLET, LOOSE KEY HANDLE, WALL CLAMP, CHROME FINISH, WALL THICKNESS: 18 INCHES ABOVE GRADE.

A01
DRINKING FOUNTAIN (DF-1):
1. FIXTURE: ELKAY LK4405, WALL MOUNT, SINGLE FOUNTAIN ONLY, NONFILTERED, NONREFIGERATED, OUTDOOR RATED, VANDAL RESISTANT, ADA MOUNTING HEIGHT 27" FROM BOTTOM OF UNIT TO FINISHED FLOOR, COLOR BY OWNER.

DRINKING FOUNTAIN (DF-2):
1. FIXTURE: ELKAY LK4408BF, WALL MOUNT, BOTTLE FILLING STATION WITH SINGLE FOUNTAIN, NONFILTERED, NONREFTIGERATED, OUTDOOR RATED, VANDAL RESISTANT, ADA MOUNTING HEIGHT 27 1/8" FROM BOTTOM OF UNIT TO FINISHED FLOOR, COLOR BY OWNER.

SINK THREE COMPARTMENT (S-1):
1. FIXTURE: DEPENDABILT 3C24X24-2-24X, THREE COMPARTMENT SINK, STAINLESS STEEL, 124" X 29-13/16" X 44-3/4" OVERALL, 24" X 24" X 12" SINK DIMENSIONS, 8" CENTERS, 16 GAUGE, 24" LEFT AND RIGHT DRAINBOARDS.
2. FAUCET: CHICAGO 640-L1E3S-369YAB, WALL MOUNTED, 12" L-TYPE SWING SPOUT, ADJUSTABLE ARMS WITH INTEGRAL SUPPLY STOPS, CHROME PLATED, 1.5 GPM AERATOR, ADA COMPLIANT LEVER HANDLES; CERAMIC QUARTER TURN CARTRIDGE.
3. DRAIN/TRAP: ELKAY NO. LK27 LEVER STRAINERS
4. SUPPLIES, STOPS: LOOSE KEY ANGLE STOPS, CHROME PLATED ESCUTCHEONS, CHROME PLATED COPPER RISER SUPPLIES.

GREASE INTERCEPTOR (GI-1):
1. FIXTURE: SCHIER GBZ, POLYETHYLENE CONSTRUCTION, BUILT IN FLOW CONTROL, 35 GPM FLOW RATE, GREASE CAPACITY 130 LBS, 3" INLET, 4" OUTLET.

WATER HEATER (WHR-1)
1. BASED ON A.O. SMITH
   A. A.O. SMITH PROLINE MODEL ENS-30, ELECTRIC, 30 GAL TANK, (2) 4,500W HEATING ELEMENTS, 18.75A EACH, 240V, SINGLE PHASE, 6 YEAR WARRANTY.
   B. DESIGN CRITERIA: 48 GALLON 1ST HR RATING, 23.6 GPH AT 78F RISE, 120F SUPPLY TEMPERATURE.

HOT WATER RETURN PUMP:
1. BASED ON PRODUCT BY GRUNDFOS.
   A. GRUNDFOS ALPHA HWR 15-29 SUT.
   B. STAINLESS STEEL FLANGE WITH LINE CORD, DESIGNED FOR 0.5 GPM AT 15' OF HEAD, 115 VOLT, 38 WATT, INTEGRATED TEMPERATURE SENSOR, DIGITAL DISPLAY, AUTOADAPT, DRY-RUN PROTECTION.

THERMAL EXPANSION TANK:
1. BASED ON THERM-X-TROL
   A. THERM-X-TROL MODEL NO. ST-12.
   B. DIAPHRAGM-TYPE PRE-PRESSURIZED EXPANSION TANK, OUTER STEEL SHELL, RIGID POLYPROPYLENE LINER, HEAVY DUTY BUTYL DIAPHRAGM, 150 PSI MAXIMUM WORKING PRESSURE, 4.4 GALLON TOTAL CAPACITY, 11" DIAMETER X 15" HIGH, ¾" NPTM CONNECTION, 200°F MAXIMUM ALLOWABLE WORKING TEMPERATURE, FACTORY PRE-CHARGE OF 40 PSIG, NSF LISTED FOR LINER ONLY.

HWR BALANCING VALVE:
1. BASED ON PRODUCTS BY CIRCUITSOLVER.
   A. CIRCUITSOLVER (CSUA), MODEL CSUA-1/2-110-CV1, STAINLESS STEEL SELF-ACTING THERMOSTATIC RECIRCULATION VALVE WITH BALL VALVE AND CHECK VALVE. REGULATE FLOW OF WATER BASED ON TEMPERATURE REGARDLESS OF PRESSURE, NEVER FULLY CLOSES, SET TO 110F, ½" – 1" SIZE: 200 PSI, 250F MAX WORKING TEMPERATURE.

MECHANICAL WATER HAMMER ARRESTORS:
1. BASED ON PRODUCT BY SIOUX CHIEF "HYDRA-RESTER"
   A. APPROVE MANUFACTURERS: CASH ACME, FNW, PRECISION PLUMBING PRODUCTS, PROFLO, WATTS REGULATOR, ZURN/WILKINS.
   B. OTHER APPROVED MECHANICAL WATER HAMMER ARRESTERS MAY BE INSTALLED IN LIEU OF THE ABOVE.
      a. CONSTRUCTED OF TYPE L HARD DRAWN COPPER BARREL, ACETAL PISTON, THREE 70-D EPDM ORINGS, FDA APPROVED DOW-CORNING # 111 SILICONE SEAL LUBRICANT.
      b. SHALL MEET EITHER THE ANSI STANDARD A112.26.1M OR ASSE STANDARD 1010.
      c. SHALL BE PDI CERTIFIED.
      d. THE SIZE AND LOCATION OF THE ARRESTER SHALL BE IN ACCORD WITH THE HYDRAULIC DESIGN OF THE PIPING SYSTEM SERVED.

PRESSURE REDUCING VALVE:
1. BASED ON PRODUCT BY WATTS.
   A. WATTS LFN55B, LEAD FREE BRASS BODY CONSTRUCTION, INTEGRAL STAINLESS STEEL STRAINER, THERMOPLASTIC SEAT, BRONZE SEALED SPRING CAGE, ADJUSTMENT RANGE FROM 25-75 PSI.

WATER METER:
1. SHALL BE BADGER, SENSUS, OR HERSEY, MEETING THE APPROVAL OF THE LOCAL WATER DEPARTMENT AND COMPLYING WITH A.W.W.A. SPECIFICATIONS, SIZE AS SHOWN ON THE DRAWINGS. METERS ARE NORMALLY FURNISHED BY THE MUNICIPALITY; IF NOT, THEY MUST BE PROVIDED BY THE PLUMBING CONTRACTOR, WITH COST INCLUDED UNDER THE PLUMBING WORK.
2. COORDINATE WITH THE MUNICIPALITY
3. METER SHALL BE FURNISHED WITH REMOTE METER READING SYSTEM WITH AUTOMATIC METER READING SYSTEM INCLUDING TRANSPONDER AND TRANSMITTER REGISTER ASSEMBLY (RADIO FREQUENCY SYSTEM).
4. METER SHALL BE CAPABLE OF RECORDING WATER USAGE AT THE DESIGN FLOW RATE OF 130 GPM WITH A CORRESPONDING PRESSURE DROP NOT EXCEEDING 3 PSI.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: GENERAL NOTES

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: RGJ

Key Plan:

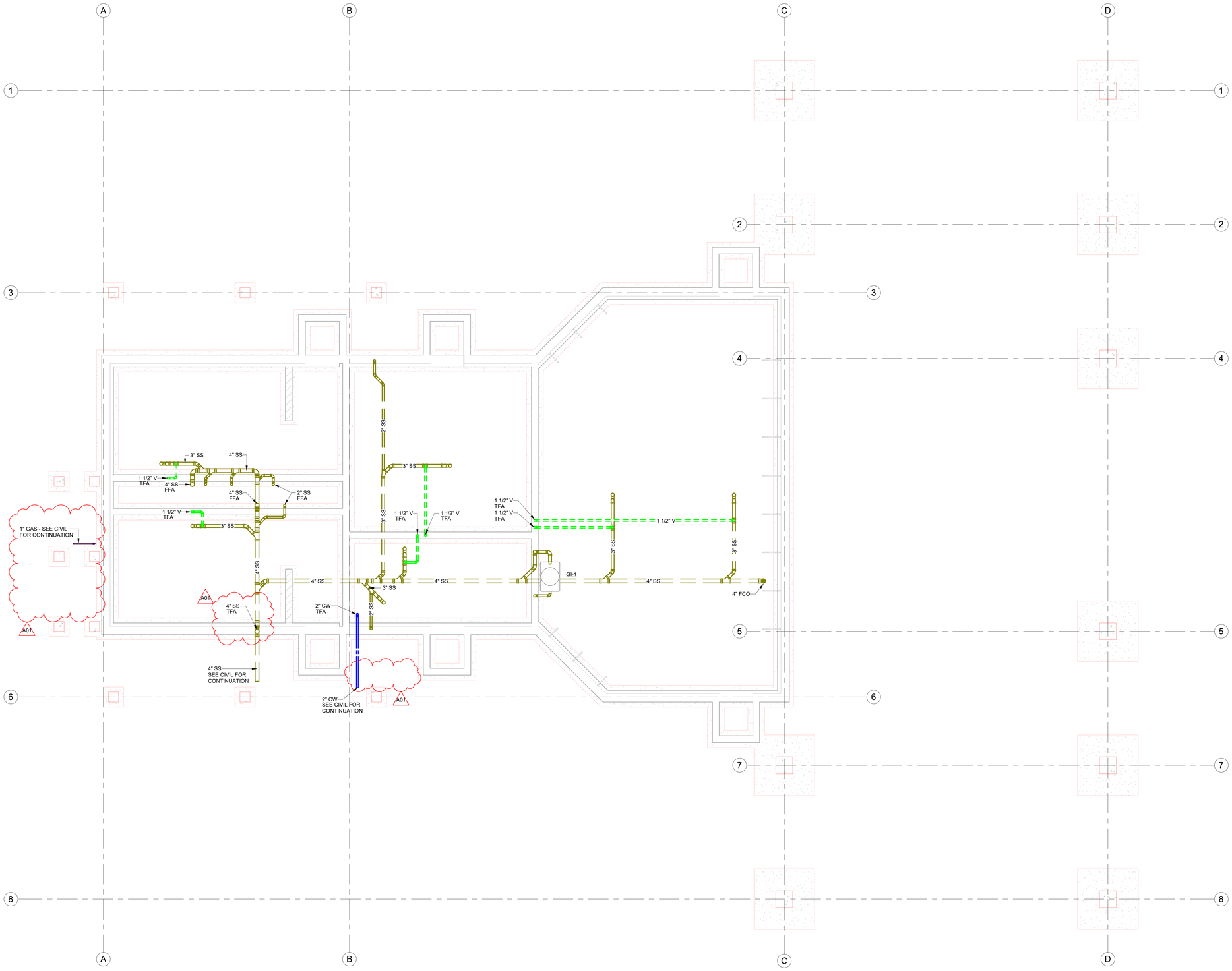
Revisions:

No.	Description	Date
A01	ADDENDUM 1	01-08-26

Graphic Scale: VARIES

Last Update: 12/29/2025 1:58:34 PM

P000



1 UNDERFLOOR PLAN

1/4" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **UNDERFLOOR PLAN**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **RGJ**

Key Plan:

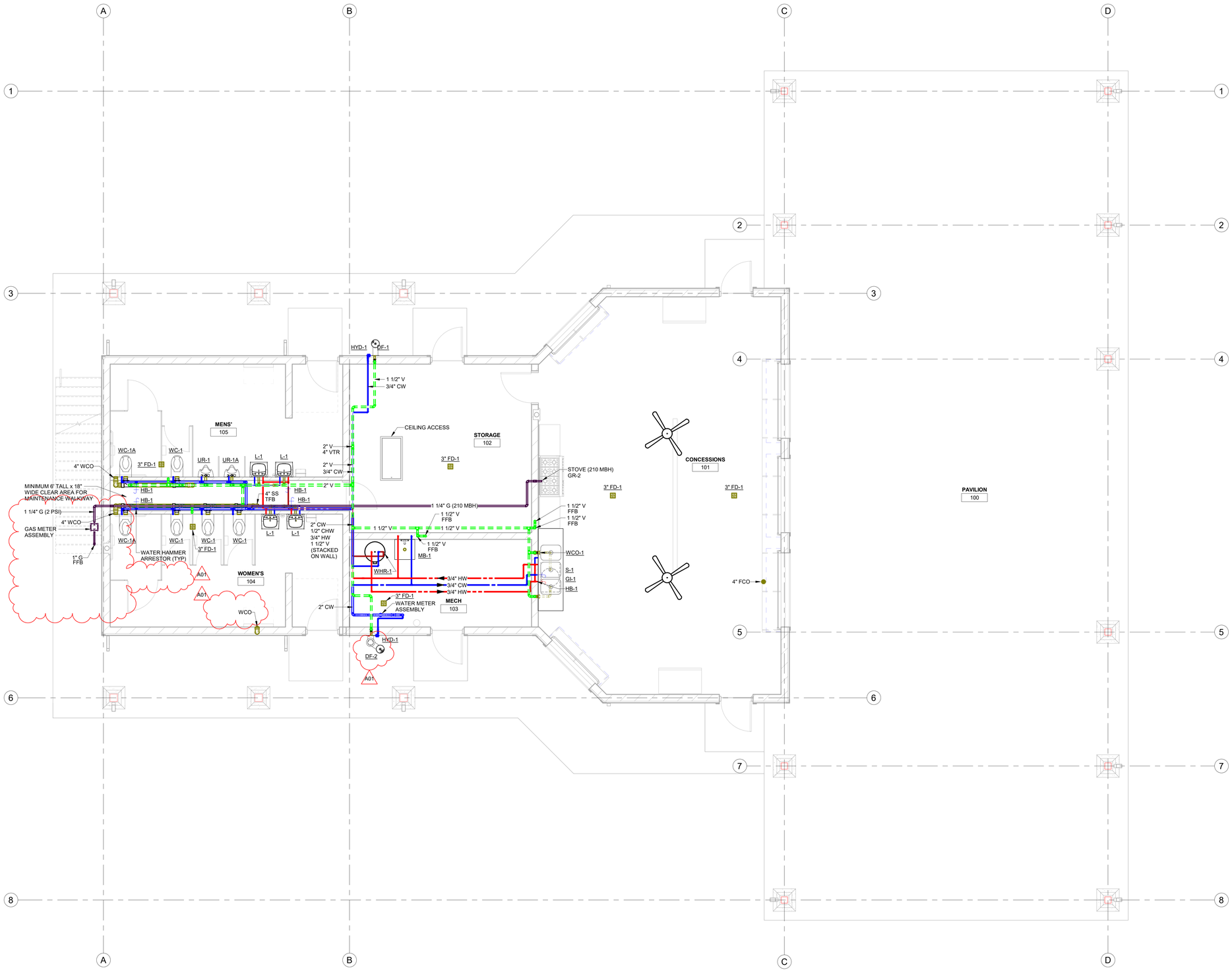
Revisions:

No.	Description	Date
A01	ADDENDUM 1	01-08-26

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: **12/29/2025 1:58:34 PM**

P100



1 FIRST FLOOR PLAN

1/4" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **FIRST FLOOR PLAN**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **RGJ**

Key Plan:

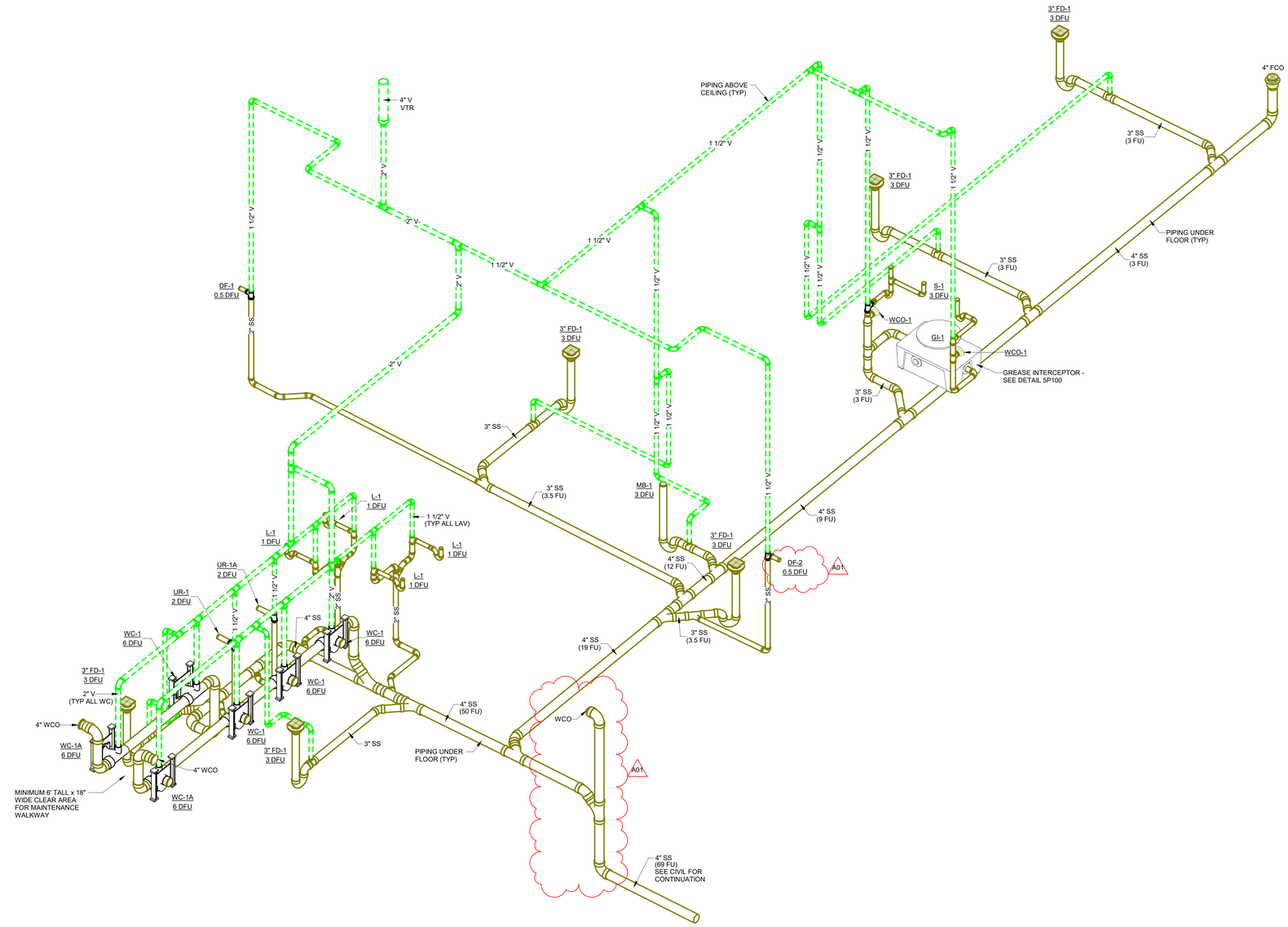
Revisions:

No.	Description	Date
A01	ADDENDUM 1	01-08-26

Graphic Scale: 0' 1' 2' 4' 6'

Last Update: **12/29/2025 1:58:36 PM**

P101



1 DWV ISOMETRIC

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **DWV ISOMETRIC**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **RGJ**

Key Plan:

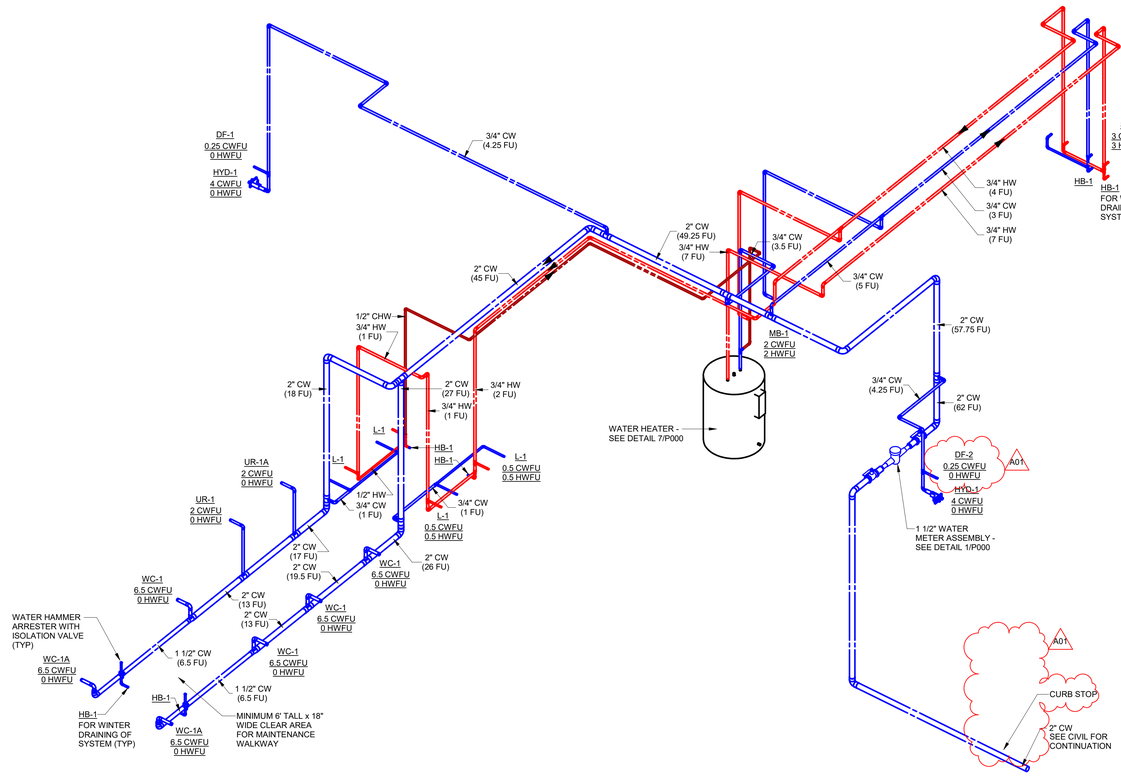
Revisions:

No.	Description	Date
A01	ADDENDUM 1	01-08-26

Graphic Scale: 0" 6" 1' 2' 3'

Last Update: **12/29/2025 1:58:37 PM**

P200



1 WATER ISOMETRIC

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **WATER ISOMETRIC**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **RGJ**

Key Plan:

Revisions:

No.	Description	Date
A01	ADDENDUM 1	01-08-26

Graphic Scale: 0" 6" 1" 2" 3"

Last Update: **12/29/2025 1:58:37 PM**

P201

ROOF EXHAUSTER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SERVES	EXHAUST FAN: AIRFLOW	TYPE	EXT. STATIC PRESS.	FAN BRAKE POWER	FAN RPM	MAX FAN RPM	DRIVE TYPE	MOTOR: QTY	MOTOR: POWER	EXHAUST AIR CONNECTOR: DUCT WIDTH	EXHAUST AIR CONNECTOR: DUCT HEIGHT	ROOF/WALL OPENING: LENGTH	ROOF/WALL OPENING: WIDTH	UNIT WEIGHT	SONES	ELECTRICAL: MCA	MOP	VOLTAGE	PHASE	REFERENCE: DETAIL NO.	CONTROL	REMARKS
RX-1	Greenheck	CUE-140-VG	BATHROOM EXHAUST	1000 CFM	UPBLAST	0.60 in-wg	0.20 hp	1061	1300	DIRECT ECM	1	0.50 hp	16"	16"	18 1/2"	18 1/2"	110 lbf	9.1	8 A	15 A	115 V	1	4M100	PILOT LIGHT SWITCH	PROVIDE INSULATED 16" ATI SOUND ATTENUATING ROOF CURB, HINGED CURB CAP KIT W/ CABLES, CURB SEALS, BIRDSCREEN, DISCONNECT SWITCH, FACTORY MOUNTED DIAL SPEED CONTROLLER, GRAVITY BACKDRAFT DAMPER

Grand total: 1

AIR DISTRIBUTION DEVICES SCHEDULE

UNIT REF.	SYSTEM TYPE	SIZE	LOCATION	DAMPER	MANUFACTURER (OR EQUAL)	MODEL NUMBER	CONSTRUCTION	MOUNTING	COMMENTS
EXHAUST									
E-1	EXHAUST	12x12 Grille 10x10 Connection S580H	CEILING	OBD	Krueger	S580H 3/4" FIXED DEFLECT 35 DEGREE DEFLECTION	ALUMINUM	SCREW/DUCT	
EXHAUST: 4									
SUPPLY									
S-1	SUPPLY	24x24 Neck Size 14"ø	CEILING	-	Krueger	SERIES 51400A 4-CONE ADJ.	ALUMINUM	SCREW/DUCT	
SUPPLY: 4									
TRANSFER									
T-1	TRANSFER	24"x12" Grille 22"x10" Connection S580H	CEILING	-	Krueger	S580H 3/4" 35 DEGREE FIXED DEFLECT	ALUMINUM	SCREW/DUCT	
TRANSFER: 4									

ALTERNATE BID

ROOF HOOD SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SYSTEM	AIRFLOW	THROAT VELOCITY	STATIC PRESS.	DAMPER TYPE	BIRDSCREEN	DIMENSIONS: THROAT LENGTH	DIMENSIONS: THROAT WIDTH	DIMENSIONS: HOOD LENGTH	DIMENSIONS: HOOD WIDTH	UNIT WEIGHT	REFERENCE: DETAIL NO.	REMARKS
RH-1	Greenheck	WIH	MAU-1 INTAKE	2000 CFM	500 FPM	0.05 in-wg	NONE	Yes	24"	24"	38"	38"	38 lbf		PROVIDE 24" INSULATED PITCHED ROOF CURB, CUSTOM KYNAR FINISH, BIRDSCREEN

Grand total: 1

KITCHEN EXHAUST FAN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	EXHAUST FAN: AIRFLOW	TYPE	EXT. STATIC PRESS.	FAN BRAKE POWER	FAN RPM	DRIVE TYPE	MOTOR: POWER	MOTOR: MAX RPM	UNIT WEIGHT	SONES	ELECTRICAL: FLA	VOLTAGE	PHASE	REFERENCE: DETAIL NO.	REMARKS
KXF-1	Greenheck	USGF-180HP	2000 CFM	UPBLAST GREASE	1.40 in-wg	0.78 hp	1205	BELT	1.50 hp	1497	346 lbf	12.9	6.60 A	208 V	3	3M100	PROVIDE NEMA 3R DISCONNECT, HINGED BASE, HIGH TEMP CURB SEAL, GREASE TRAP, CLEANOUT PORT, 24" VENTILATED ROOF CURB

Grand total: 1

MAKE-UP AIR UNIT SCHEDULE

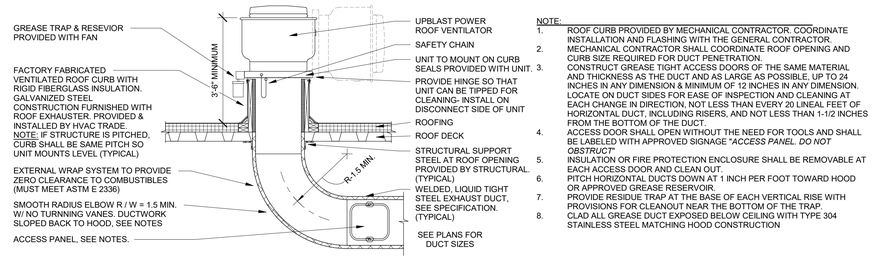
UNIT NO.	MANUFACTURER	MODEL NO.	TYPE	OUTDOOR AIRFLOW	SUPPLY FAN: AIRFLOW	FAN TYPE	CONTROL	EXT. STATIC PRESS.	TOTAL STATIC PRESS.	FAN BRAKE POWER	FAN RPM	DRIVE TYPE	MOTOR: QTY	MOTOR: POWER	FILTERS: FINAL FILTER EFFICIENCY	UNIT WEIGHT	ELECTRICAL: MCA	MOP	VOLTAGE	PHASE	INTERLOCK: CONTROLS	INTERLOCK: TYPE	REMARKS
MAU-1	Greenheck	MSX-P112-H12-MF	INDOOR UNTEMPERED	2000 CFM	2000 CFM	MIXED FLOW	CONSTANT VOLUME	0.50 in-wg	0.58 in-wg	0.4 hp	1798	DIRECT	1	0.8 hp	2" ALUMINUM	625 lbf	13 A	15 A	208 V	3	CONSTANT VOLUME	MICROPROCESSOR STAND-ALONE	PROVIDE INLET DAMPER W/ END SWITCH, SUPPLY FAN VFD, KXF-1 STARTER W/ AUXILIARY CONTACTS TIED TO KITCHEN HOOD, DISCONNECT

Grand total: 1

KITCHEN HOOD SCHEDULE

UNIT NO.	TYPE	MANUFACTURER	MODEL NO.	EXHAUST: AIRFLOW	EXHAUST: HOOD CONSTRUCTION	EXHAUST: STATIC PRESS.	EXHAUST: EXH. DUCT CONN. QTY	EXHAUST AIR CONNECTOR: DUCT WIDTH	EXHAUST AIR CONNECTOR: DUCT HEIGHT	HOOD DIMENSIONS: LENGTH	HOOD DIMENSIONS: WIDTH	HOOD DIMENSIONS: HEIGHT	HOOD DIMENSIONS: BOTTOM OF EQUIPMENT ELEVATION	UNIT WEIGHT	HOOD LIGHTS/CONTROL PANEL: MOP	HOOD LIGHTS/CONTROL PANEL: VOLTAGE	HOOD LIGHTS/CONTROL PANEL: PHASE	INTERLOCK: UNIT NO.	REMARKS
KXH-1	TYPE I GREASE	GREENHECK	GXEW WALL CANOPY	2000 CFM	STAINLESS STEEL	1.11 in-wg	1	19"	10"	60"	48"	24"	80"	183 lbf	20 A	120 V	1	KXF-1 / MAU-1	ZERO CLEARANCE TO COMBUSTIBLES, SS CEILING ENCLOSURE, UL 300 ANSUL FIRE SUPPRESSION SYSTEM IN HOOD ENCLOSURE, GAS SHUTOFF VALVE, MANUAL PULL STATION, HOOD LIGHTS, FAN & LIGHT SWITCHES

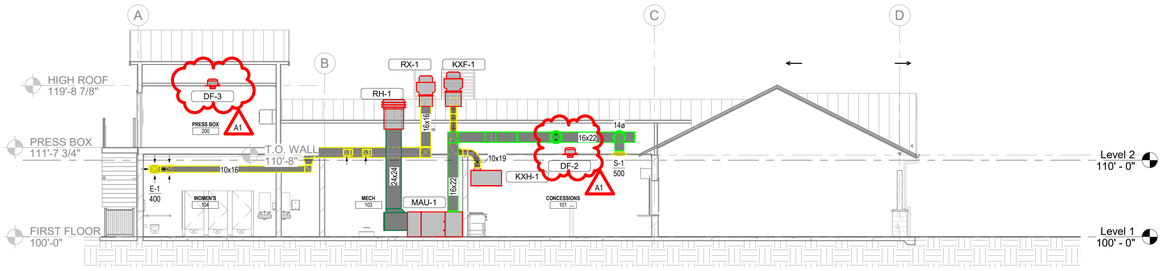
Grand total: 1



NOTE:
1. ROOF CURB PROVIDED BY MECHANICAL CONTRACTOR. COORDINATE INSTALLATION AND FLASHING WITH THE GENERAL CONTRACTOR.
2. MECHANICAL CONTRACTOR SHALL COORDINATE ROOF OPENING AND CURB SIZE REQUIRED FOR DUCT PENETRATION.
3. CONSTRUCT GREASE TIGHT ACCESS DOORS OF THE SAME MATERIAL AND THICKNESS AS THE DUCT AND AS LARGE AS POSSIBLE, UP TO 24 INCHES IN ANY DIMENSION A MINIMUM OF 12 INCHES IN ANY DIMENSION. LOCATE ON DUCT SIDES FOR EASE OF INSPECTION AND CLEANING AT EACH CHANGE IN DIRECTION, NOT LESS THAN EVERY 20 LINEAL FEET OF HORIZONTAL DUCT, INCLUDING RISERS, AND NOT LESS THAN 1-1/2 INCHES FROM THE BOTTOM OF THE DUCT.
4. ACCESS DOOR SHALL OPEN WITHOUT THE NEED FOR TOOLS AND SHALL BE LABELED WITH APPROVED SIGNAGE "*ACCESS PANEL. DO NOT OBSTRUCT*"
5. INSULATION OR FIRE PROTECTION ENCLOSURE SHALL BE REMOVABLE AT EACH ACCESS DOOR AND CLEAN OUT.
6. PITCH HORIZONTAL DUCTS DOWN AT 1 INCH PER FOOT TOWARD HOOD OR APPROVED GREASE RESERVOIR.
7. PROVIDE RESIDUE TRAP AT THE BASE OF EACH VERTICAL RISE WITH PROVISIONS FOR CLEANOUT NEAR THE BOTTOM OF THE TRAP.
8. CLAD ALL GREASE DUCT EXPOSED BELOW CEILING WITH TYPE 304 STAINLESS STEEL MATCHING HOOD CONSTRUCTION

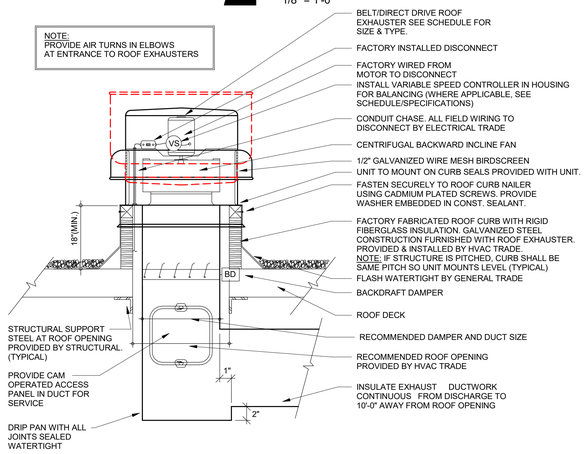
3 UPBLAST POWER ROOF VENTILATOR DETAIL - GREASE

N.T.S.



2 Section 1

1/8" = 1'-0"



4 DOWNBLAST/UPBLAST ROOF EXHAUSTER DETAIL

N.T.S.

DESTRATIFICATION FANS

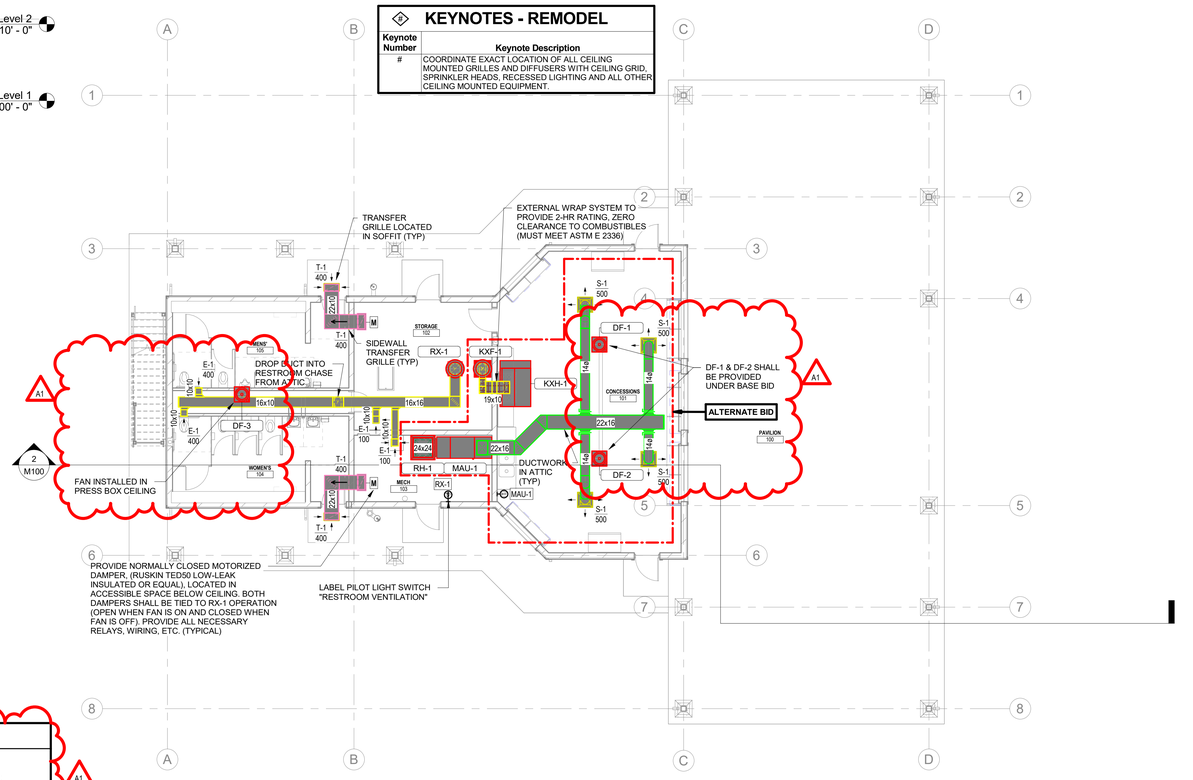
UNIT NO.	MANUFACTURER	MODEL	FAN TYPE	LOCATION	dB(A) @ 10 FT	WEIGHT LBS.	COVERAGE AREA	MAX CFM	MAX RPM	ELECTRICAL: FULL LOAD AMPS	ELECTRICAL: VOLTAGE	VARIABLE SPEED CONTROLLER	SAFETY CABLE	COLOR	DETAIL NO.	REMARKS: PROVIDE MOUNTING HARDWARE
DF-1	Airius	S-10-SP-SH-120	RECESSED HOUSING	CEILING	21.0	15	500 SF		860	0.14 A	120/1	WALL MOUNTED		BY A/E		
DF-2	Airius	S-10-SP-SH-120	RECESSED HOUSING	CEILING	21.0	15	500 SF		860	0.14 A	120/1	W/ DF-1		BY A/E		
DF-3	Airius	S-10-SP-SH-120	RECESSED HOUSING	CEILING	21.0	15	500 SF		860	0.14 A	120/1	WALL MOUNTED		BY A/E		

Grand total: 3

A1

KEYNOTES - REMODEL

Keynote Number	Keynote Description
#	COORDINATE EXACT LOCATION OF ALL CEILING MOUNTED GRILLES AND DIFFUSERS WITH CEILING GRID, SPRINKLER HEADS, RECESSED LIGHTING AND ALL OTHER CEILING MOUNTED EQUIPMENT.



NORTH

1 MECHANICAL OVERALL REMODEL PLAN

1/8" = 1'-0"

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: HVAC PLAN

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: JB

Key Plan:

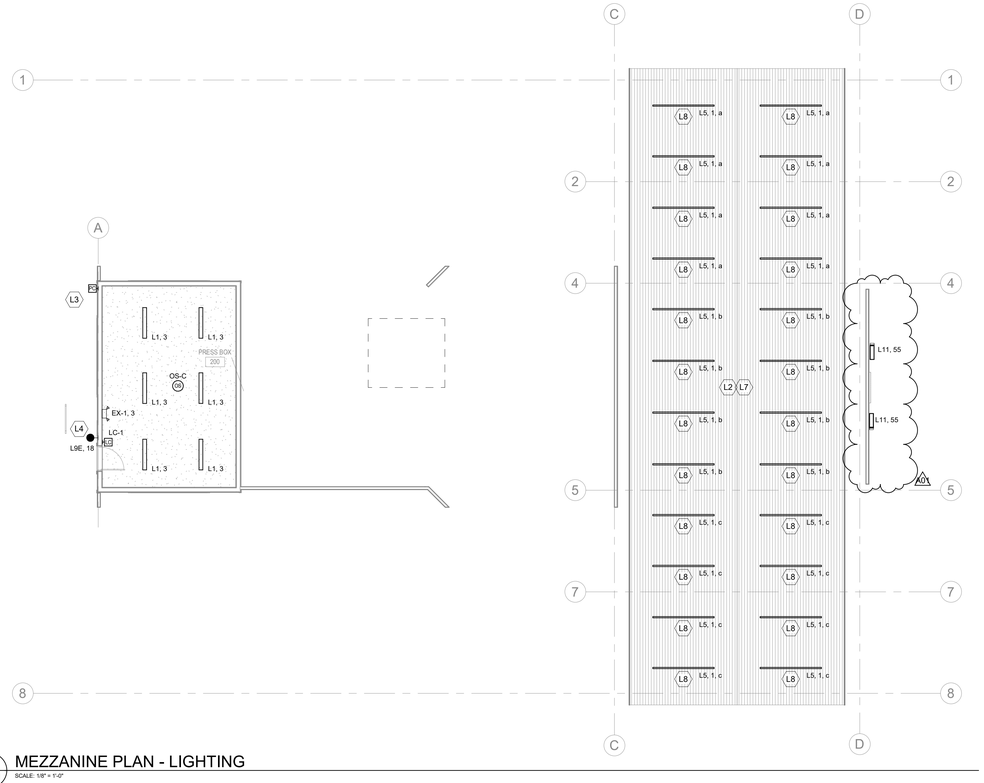
Revisions:

No.	Description	Date
A1	ADDENDUM #01	01/08/2026

Graphic Scale: VARIES

Last Update: 1/5/2026 1:24:39 PM

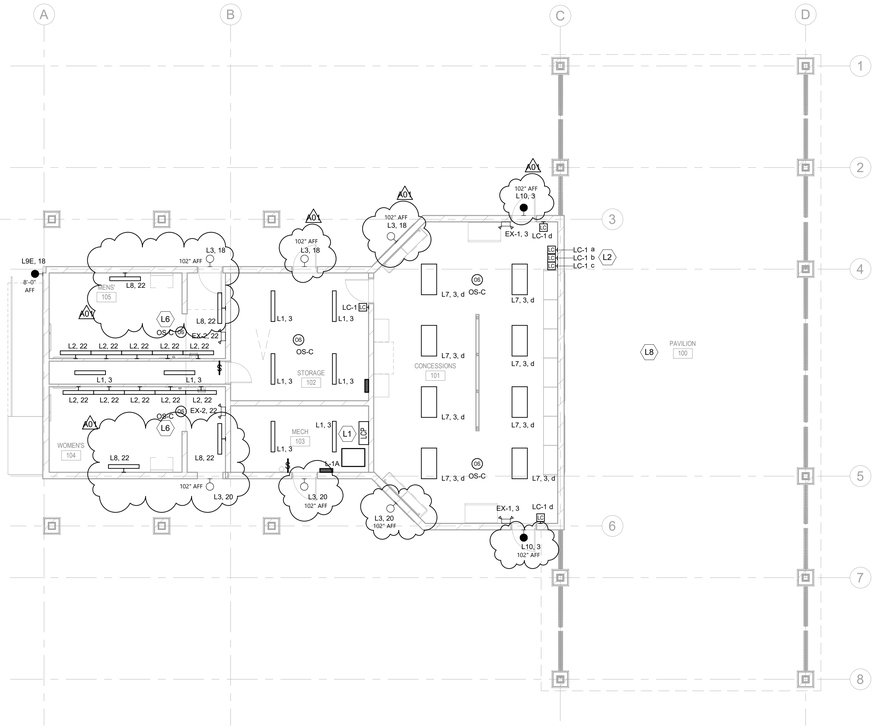
M100



2 E101 MEZZANINE PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

PROJECT NORTH



1 E101 FIRST FLOOR PLAN - LIGHTING

SCALE: 1/8" = 1'-0"

PROJECT NORTH

KEYED NOTES

(KEYED NOTES PER PROJECT)

L1 PROVIDE nLIGHT "ARP" SERIES LIGHTING CONTROL PANEL TO COORDINATE WITH ADJACENT PROJECT. COORDINATE CONTROL SIGNALS, SCHEDULING, AND CONDUIT PATHWAYS AS REQUIRED. REVIEW FINAL PANEL LAYOUT AND SEQUENCES WITH BOTH PROJECT TEAMS PRIOR TO INSTALLATION.

L2 PROVIDE LIGHTING CONTROL OVERRIDE DEVICE FOR EACH LIGHTING CONTROL ZONE. REFER TO 2/E101 FOR CONTROLLED FIXTURES IN THIS AREA. INTERLOCK FIXTURES WITH PHOTOCELL.

L3 MOUNT PHOTOCELL 18'-0" ABOVE GROUND LEVEL.

L4 MOUNT FIXTURE 17'-0" ABOVE GROUND LEVEL.

L6 OCCUPANCY SENSOR WITH WIREGUARD.

L7 REFER TO 1/E101 FOR SWITCH LOCATION.

L8 ALL EXPOSED CONDUITS RUN ON TONGUE AND GROOVE DECKING SHOULD BE INSTALLED IN A NEAT AND ORDERLY FASHION AND SHALL BE PAINTED TO OWNER'S SATISFACTION.

LIGHTING GENERAL NOTES:

1. REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS, AND DETAILS.
2. REFER TO ARCHITECTURAL PLANS, SECTIONS, ELEVATIONS, AND REFLECTED CEILING PLANS FOR EXACT LOCATION AND COORDINATION OF ALL LIGHT FIXTURE AND CONTROLLER INSTALLATIONS.
3. VERIFY ALL MOUNTING HEIGHTS OF DEVICES ABOVE MILLWORK WITH ARCHITECTURAL PLANS.
4. WIRING SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL CODES, INCLUDING PROVISION OF EQUIPMENT GROUNDING AS REQUIRED BY THE NEC.
5. POWER CONDUCTORS SHALL BE SIZED PER THE NEC AMPACITY TABLES (ARTICLE 310), INCLUDING ADJUSTMENT FACTOR AND NEUTRAL CONDUCTOR REQUIREMENTS (FEED AND BRANCH NEUTRAL CONDUCTORS MUST BE COUNTED AS CURRENT CARRYING CONDUCTORS). RUN SEPARATE NEUTRAL CONDUCTORS FOR ALL LIGHTING CIRCUITS.
6. EXIT SIGNAGE IS INDICATED ON THE PLANS BASED ON ANTICIPATED EGRESS PATHS THROUGHOUT THE BUILDING. ELECTRICAL CONTRACTOR SHALL CONFIRM ALL EGRESS PATHS WITH ARCHITECT/OWNER/GENERAL CONTRACTOR DURING CONSTRUCTION AND SHALL ADD/MODIFY EXIT SIGNAGE AS REQUIRED TO COMPLY WITH PATHWAYS.
7. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH QUICK-CONNECT DISCONNECTING MEANS AND A 6'0" (MAXIMUM) FIXTURE WHIP FOR FUTURE MAINTENANCE PURPOSES.
8. ALL EXTERIOR LIGHTING FIXTURES TO BE CONTROLLED VIA PHOTOCELL.

LIGHTING CONTROLS GENERAL NOTES:

1. REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS, AND DETAILS.
2. OCCUPANCY SENSOR LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. ACTUAL LOCATION TO BE DETERMINED IN FIELD PER MANUFACTURER'S RECOMMENDATIONS AND LAYOUT. PROVIDE A MINIMUM 4'-0" OF FLEX CONDUIT/WIRING SO THAT THE SENSOR CAN BE FIELD ADJUSTED FOR PROPER COVERAGE DURING FINAL COMMISSIONING. THE TRAINED FACTORY PERSONNEL SHALL PERFORM THE FINAL COMMISSIONING.
3. SENSORS IN ELECTRICAL/MECHANICAL LOCATIONS NEED TO BE VERIFIED WITH AUTHORITY HAVING JURISDICTION. REFER TO NEC 110.26.D.
4. LOW VOLTAGE CABLE MUST BE INSTALLED AT LEAST 12 INCHES FROM ALL LINE VOLTAGE CONDUCTORS EXCEPT TO CROSS OR MAKE TERMINATIONS. CAT 5 CABLE MUST BE KEPT AWAY FROM ALL DEVICES THAT CREATE ELECTRIC MAGNETIC FIELDS SUCH AS BALLASTS OR TRANSFORMERS.
5. CONTRACTOR IS RESPONSIBLE FOR ALL CONTROL TERMINATIONS. NO SPLICES ARE PERMITTED IN CONTROL WIRING. POWER AND CONTROL CONDUCTORS MUST NOT SHARE THE SAME RACEWAY OR CONDUIT UNLESS THE CONTROL CONDUCTORS HAVE THE SAME INSULATION AS THE POWER CONDUCTORS.
6. LIGHTING CONTROL EQUIPMENT MUST BE INSTALLED, MAINTAINED, AND OPERATED IN AN "OFFICE CLEAN" DRY ENVIRONMENT, INDOOR DRY LOCATIONS ONLY, 10% - 90% RELATIVE HUMIDITY; AMBIENT TEMPERATURE 0°- 40°C (32°-104°F) RECOMMENDED.
7. ON DIGITAL SYSTEMS, ALL DEVICES SHALL BE CONNECTED IN A DAISY CHAIN PATTERN SO THAT THE FIRST AND LAST DEVICE IN THE CHAIN HAVE AN OPEN PORT.
8. ON DIGITAL SYSTEMS, AT THE TIME OF INSTALLATION, THE CONTRACTOR SHALL NOTE AND LABEL ADDRESS AND LOCATION OF EACH DEVICE ON THE SYSTEM ONE-LINE DIAGRAMS OR SYSTEM LAYOUT DRAWINGS.
9. VERIFY MAXIMUM CABLE LENGTHS BASED ON CONTROL SYSTEM REQUIREMENTS. MANUFACTURER IS NOT RESPONSIBLE FOR SYSTEMS EXCEEDING CABLING PARAMETERS.
10. 0-10V DIMMING BALLASTS AND DRIVERS ARE REQUIRED TO COMPLY WITH IEC 60929 ANNEX E SPECIFICATIONS.
11. FOR 0-10VDC DIMMING SYSTEMS, VIOLET AND GRAY CONDUCTORS ARE FOR 0-10VDC LOW VOLTAGE TERMINATIONS ONLY. NEVER TERMINATE LINE VOLTAGE (120/230/277VAC) TO VIOLET AND GRAY.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

JDR ENGINEERING, INC.
5525 NOBEL DRIVE
SUITE 110
MADISON, WI 53711
PH: 608.271.1728 FAX: 608.271.7046
JDR PROJECT NO: 25.0062

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: **FLOOR PLANS – LIGHTING**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **JDR**

Key Plan:

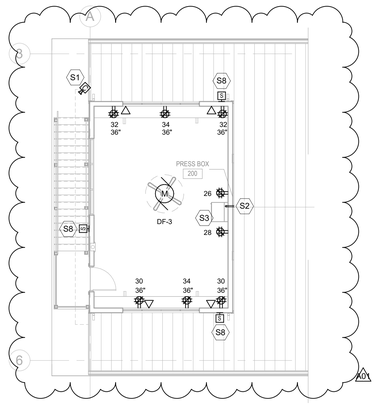
Revisions:

No.	Description	Date
A01	ADDENDUM #1	1/8/2026

Graphic Scale: 0' 2' 4' 8' 12'

Last Update: **1/8/2026 11:05:23 AM**

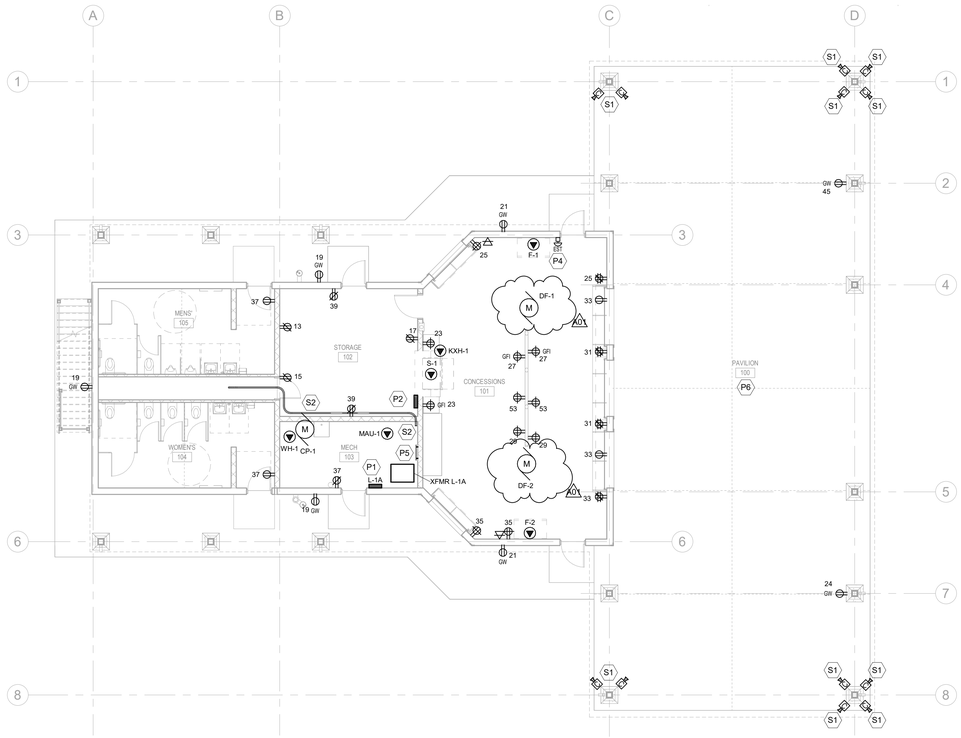
E101



3 E102 MEZZANINE PLAN - POWER/SYSTEMS

SCALE: 1/8" = 1'-0"

PROJECT NORTH



1 E102 FIRST FLOOR PLAN - POWER/SYSTEMS

SCALE: 1/8" = 1'-0"

PROJECT NORTH

KEYED NOTES

(KEYED NOTES PER PROJECT)

- P1 NEW 208Y/120V 225A 3P, 4W PANEL "L-1A" TO BE INSTALLED IN LOCATION SHOWN FED THRU NEW 75KVA XFMR. PROVIDE NEW 125A/3P BREAKER IN PANEL "MDP" (PANEL IS BEING PROVIDED AS PART OF TREMPEALEAU COMMUNITY PARK #52-0856 PROJECT) AND FEED NEW 75KVA XFMR WITH (1) 3#1,#1N,#16G - 1-1/4"C. FIELD VERIFY ALL REQUIREMENTS OF EXISTING PANEL "MDP".
- P2 PROVIDE 36" WIDE SPACE FOR FUTURE PANEL LOCATION AND SUB-METER.
- P4 PROVIDE ANSUL PULL STATION TO ACTIVATE HOOD SYSTEM. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH HOOD CONTRACTOR / ARCHITECT PRIOR TO ROUGH-IN.
- P5 GROUNDING BUS BAR. PROVIDE GROUNDING / BONDING AS REQUIRED.
- P6 ALL EXPOSED CONDUIT RUNS SHOULD BE INSTALLED IN A NEAT AND ORDERLY FASHION AND SHALL BE PAINTED TO OWNER'S SATISFACTION.
- S1 PROVIDE ROUGH-IN FOR SECURITY CAMERA(S). COORDINATE ALL REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR.
- S2 PROVIDE TWO (2) 2" CONDUITS FROM MECH #103 TO PRESS BOX #200 FOR FUTURE USE.
- S3 DATA RACK TO BE PROVIDED BY OTHERS. COORDINATE ALL REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR.
- S8 PROVIDE ROUGH-IN FOR SPEAKER(S). COORDINATE ALL REQUIREMENTS WITH LOW VOLTAGE CONTRACTOR.

POWER GENERAL NOTES:

1. REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS, AND DETAILS.
2. THE CONTRACTOR MAY INSTALL UP TO THREE (3) CURRENT CARRYING CONDUCTORS IN A CONDUIT. LOADINGS ARE BASED ON THWN INSULATION, 40°C AMBIENT WITH DERATINGS FOR TEMPERATURE AND UP TO THREE (3) CONDUCTORS IN A CONDUIT. CONTACT THE ENGINEER FOR WIRING IN OTHER CONDITIONS.
3. VERIFY ALL MOUNTING HEIGHTS OF DEVICES ABOVE MILLWORK WITH ARCHITECTURAL PLANS.

SYSTEMS GENERAL NOTES:

1. REFER TO SHEET E000 FOR ALL SYMBOLS, ABBREVIATIONS, AND DETAILS.
2. ALL LOW VOLTAGE CABLES OR CONDUCTORS OPERATING AT LESS THAN 50 VOLTS SHALL BE IN ELECTRICAL METAL TUBING (EMT) WHERE INSTALLED WITHIN WALLS OR INACCESSIBLE SPACES.
3. LOW VOLTAGE CABLES SHALL BE RUN IN CABLE TRAY. HOOKS SHALL BE LIMITED TO SUPPORTING CABLES TO THE NEAREST CABLE TRAY.
4. TV OUTLETS, VOLUME CONTROLS, TELEPHONE OUTLETS, AND DATA OUTLETS SHALL CONSIST OF A BACK BOX WITH CONDUIT STUBBED ABOVE THE ACCESSIBLE CEILING, SEE ROUGH-IN DETAIL. VERIFY SIZE OF BACK BOX REQUIRED WITH DEVICE TO BE INSTALLED. LOCATE BACK BOXES 6" FROM ADJACENT POWER RECEPTACLE INTENDED FOR COMPUTER USE.
5. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:

JDR ENGINEERING, INC.
5525 NOBEL DRIVE
SUITE 110
MADISON, WI 53711
PH: 608.271.1728 FAX: 608.271.7046
JDR PROJECT NO: 25.0062

Project Title: **VILLAGE OF TREMPEALEAU**
TREMPEALEAU PARK SHELTER - REBID

Project Location: **24016 12th Street**
Trempealeau, WI 54661

Sheet Title: **FLOOR PLANS – POWER & SYSTEMS**

HSR Project Number: **25013**

Project Date: **DECEMBER 2025**

Drawn By: **JDR**

Key Plan:

Revisions:

No.	Description	Date
A01	ADDENDUM #1	1/8/2026

Graphic Scale: **VARIES**

Last Update: **1/8/2026 11:05:25 AM**

E102

Panelboard: L-1A

Location: MECH 103
Supply From: XFMR L-1A
Mounting: SURFACE
Enclosure: Type 1

Voltage: 208Y/120V
Phases: 3
Wires: 4

A.I.C. Rating: FIELD VERIFY
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 225 A

MAIN CIRCUIT BREAKER REQUIREMENTS:
GROUND FAULT PROTECTION _____ SHUNT TRIP BREAKER _____ ADJUSTABLE LONG TERM
_____ INTEGRAL METER _____ ADJUSTABLE MAGNETIC _____ ADJUSTABLE SHORT TERM
_____ SURGE PROTECTION _____ ADJUSTABLE INSTANTANEOUS

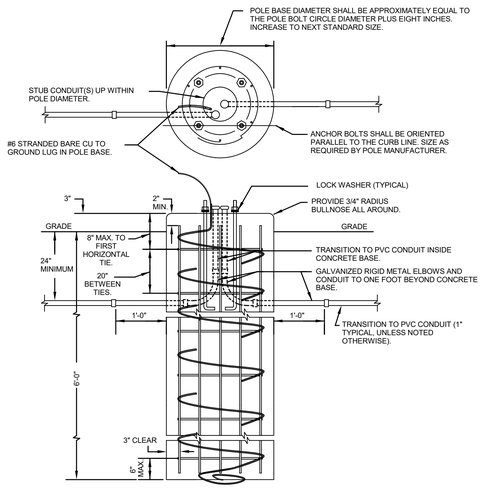
CKT	Circuit Description	Note	Trip	Poles	A	B	C	Poles	Trip	Note	Circuit Description	CKT
1	Lighting PAVILION 100		20 A	1	1.38 1.25							2
3	Lighting Room 102, 103, 101		20 A	1		1.71 1.25		3	20 A		MAU-1 - MAKE UP AIR UNIT	4
5	WH-1 - WATER HEATER		30 A	2			2.25 1.25					6
7					2.25 0.79							8
9	SITE LIGHTING BOLLARDS EAST		20 A	1		0.35 0.79		3	15 A		KXF-1 - KITCHEN EXHAUST FAN	10
11	SITE LIGHTING BOLLARDS WEST		20 A	1			0.45 0.79					12
13	Receptacle STORAGE 102		20 A	1	0.18 0.04			1	15 A		CP-1 - CIRCULATION PUMP	14
15	Receptacle STORAGE 102		20 A	1		0.18 0		1	20 A		SPARE	16
17	Receptacle STORAGE 102		20 A	1			0.18 0.27	1	20 A		EXTERIOR LIGHT FIXTURES	18
19	Receptacle EXTERIOR		20 A	1	0.54 0.22			1	20 A		EXTERIOR LIGHT FIXTURES	20
21	Receptacle EXTERIOR		20 A	1		0.36 0.53		1	20 A		BATHROOM LIGHT FIXTURES - Room...	22
23	Receptacle CONCESSIONS 101		20 A	1			0.36 0.18	1	20 A		Receptacle PAVILION 100	24
25	Receptacle CONCESSIONS 101		20 A	1	0.36 0.18			1	20 A		Receptacle PRESS BOX 200	26
27	Receptacle CONCESSIONS 101		20 A	1		0.36 0.18		1	20 A		Receptacle PRESS BOX 200	28
29	Receptacle CONCESSIONS 101		20 A	1			0.36 0.36	1	20 A		Receptacle PRESS BOX 200	30
31	Receptacle CONCESSIONS 101		20 A	1	0.36 0.36			1	20 A		Receptacle PRESS BOX 200	32
33	Receptacle CONCESSIONS 101		20 A	1		0.54 0.36		1	20 A		Receptacle PRESS BOX 200	34
35	Receptacle CONCESSIONS 101		20 A	1			0.36 8.2					36
37	Receptacle Room 104, 105, 103		20 A	1	0.54 8.2			3	90 A		S-1 - STOVE	38
39	Receptacle STORAGE 102		20 A	1		0.36 8.2						40
41	F-1 - FREEZER		20 A	1			1.2 0.6	1	20 A		Motor	42
43	F-2 - FREEZER		20 A	1	1.2 1.2			1	20 A		Motor CONCESSIONS 101	44
45	Receptacle PAVILION 100		20 A	1		0.18 0		1	20 A		SPARE	46
47	RX-1 - RELIEF EXHAUST FAN		15 A	1			0.77 0	1	20 A		SPARE	48
49	H-1 - HOOD FIRE SUPPRESION UNIT		20 A	1	0.6 0			1	20 A		SPARE	50
51	ROOF MOUNTED RECEPTACLE		20 A	1		0.18 0		1	20 A		SPARE	52
53	Receptacle CONCESSIONS 101		20 A	1			0.36 0	1	20 A		SPARE	54
55	SOFFIT / SIGNAGE LIGHTING		20 A	1	0 0			1	20 A		SPARE	56
57	SPARE		20 A	1		0 0		1	20 A		SPARE	58
59	SPARE		20 A	1			0 0	1	20 A		SPARE	60
61	SPARE		20 A	1	0 0			1	20 A		SPARE	62
63	SPARE		20 A	1		0 0		1	20 A		SPARE	64
65	SPARE		20 A	1			0 0	1	20 A		SPARE	66
				Total Load:	19.7 kVA	15 kVA	17.9 kVA					
				Total Amps:	168 A	125 A	153 A					

FEEDER BREAKER NOTES:
(G) GROUND FAULT PROTECTION (LN) BREAKER LOCK IN ON POSITION
(M) INTEGRAL METER (LF) BREAKER LOCK IN OFF POSITION
(S) SURGE PROTECTION (AF) ARC FAULT PROTECTION
(ST) SHUNT TRIP BREAKER (G/AF) COMBINATION GFCI/AFCI

ADJUSTABLE TRIP SETTINGS:
(IT) INSTANTANEOUS SETTING
(LT) LONG TERM SETTING
(ST) SHORT TERM SETTING
(MT) MAGNETIC ADJUSTABLE

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	4984 VA	111.93%	5578 VA		
Other	37139 VA	125.00%	46423 VA	**Total Conn. Load:**	53 kVA
Receptacle	7380 VA	100.00%	7380 VA	**Total Est. Demand:**	63 kVA
Lighting	3141 VA	125.00%	3927 VA	**Total Conn.:**	146 A
				Total Est. Demand:	176 A

Notes:



CONCRETE AND HARDWARE NOTES:
1. USE ANCHOR BOLTS FURNISHED BY POLE MANUFACTURER. VERIFY BOLT CIRCLE DIAMETER WITH MANUFACTURER.
2. APPLY "ANTI-SEIZE" LUBRICANT TO ALL ANCHOR BOLT THREADS.
3. USE #4 REBAR (TYPICAL).
4. THE EXPOSED SIDES OF THE CONCRETE BASE SHALL HAVE THE FORMS REMOVED AND THE CONCRETE RUBBED OUT TO A SMOOTH FINISH.
5. THE TOP OF THE CONCRETE BASE SHALL HAVE A BRUSH FINISH.
6. PROVIDE 3/4" RADIUS BULLNOSE ON TOP EDGE OF CONCRETE.

CONDUIT AND BOX NOTES:
1. PROVIDE A SPARE CONDUIT STUB AT EACH END-OF-LINE FIXTURE. SEE PLANS FOR ADDITIONAL SPARE STUBS.
2. PROVIDE A BUSHING ON ALL EXPOSED CONDUIT ENDS.

CONCRETE ENCASED (UFER) GROUNDING SYSTEM NOTES:
1. PROVIDE ERICO EK16 DIRECT BURY CLAMP (OR EQUAL) AT TOP OF REBAR CAGE.
2. PROVIDE 23' OF #4 BARE COPPER STRANDED GROUNDING ELECTRODE CONDUCTOR.
3. EXTEND 3' OF CONDUCTOR OUT THE TOP OF POLE BASE FOR POLE GROUNDING.
4. SPIRAL 10' MINIMUM OF CONDUCTOR AROUND OUTSIDE OF REBAR CAGE.
5. LOOP REMAINING CONDUCTOR AROUND REBAR CAGE AT BOTTOM OF POLE BASE IN CONTACT WITH EARTH.

1 E801 BOLLARD BASE DETAIL
SCALE: NONE

ELECTRICAL CONNECTION SCHEDULE

TAG	DESCRIPTION	LOCATION NO	LOCATION NAME	LOAD kVA	F.L.A.	M.C.A.	VOLT	PH	OCP (Amps)	CIRCUITING INFORMATION WIRE SIZE & CONDUIT	PANEL	CIRCUIT #	STARTER TYPE	STARTER FURNISHED / INSTALLED	CONTROLLER TYPE	CONTROLLER FURNISHED / INSTALLED	DISCONNECT TYPE	DISCONNECT FURNISHED / INSTALLED	ACCESSORIES	NEMA TYPE/CONFIGURATION	POWER SOURCE TYPE: NORMAL	POWER SOURCE TYPE: LIFE SAFETY	POWER SOURCE TYPE: LEGALLY REQUIRED	POWER SOURCE TYPE: OPTIONAL STAND-BY	FOOT NOTES
F-1	FRIDGE	101	CONCESSIONS	1.2	10.0	12.5	120	1	20	#12,#12N,#12G - 3/4"C	L-1A	41	-	-	0/0	MF	NFS	EC			•				
F-2	FRIDGE	101	CONCESSIONS	1.2	10.0	12.5	120	1	20	#12,#12N,#12G - 3/4"C	L-1A	43	-	-	0/0	MF	NFS	EC			•				
KXH-1	TYPE 1 HOOD	101	CONCESSIONS	0.6	5.0	6.3	120	1	20	#12,#12N,#12G - 3/4"C	L-1A	49	-	-	ECP	MF	NFS	EC			•				(1)(2)(3)(5)
MAU-1	MAKE UP AIR UNIT	103	MECH	3.7	10.4	13.0	208	3	15	(3)#12,#12G - 3/4"C	L-1A	2,4,6	-	-	VFD	HC/EC	NFS	EC			•				(2)(5)
S-1	STOVE	101	CONCESSIONS	24.6	68.3	85.4	208	3	90	(3)#3,#8G - 1-1/4"C	L-1A	36,38,40	-	-	0/0	MF	NFS	EC			•				(3)(4)
WH-1	WATER HEATER	103	MECH	4.5	21.6	27.0	208	1	30	#10,#10N,#10G - 3/4"C	L-1A	5,7	-	-	ECP	MF	NFS	EC			•				

STARTER TYPES:
2-SPD TWO SPEED
CS COMBINATION STARTER
ECM ECM CONTROLLER
FVNR FULL VOLTAGE NON-REVERSING
FVR FULL VOLTAGE REVERSING
MAN MANUAL SWITCH
RVS REDUCED VOLTAGE
SS SOFT STARTER
VFD VARIABLE FREQUENCY DRIVE

CONTROL DEVICES:
0/0 ON-OFF SELECTOR SWITCH
BAS BUILDING AUTOMATION SYSTEM
CT CONTACTOR / RELAY
ECP EQUIPMENT CONTROL PANEL
HOA HAND-OFF-AUTO SWITCH
S/S STOP-START PUSHBUTTONS
TC TEMPERATURE CONTROLS
TS THERMOSTAT / TEMPERATURE SENSOR

DISCONNECT TYPES:
CB CIRCUIT BREAKER
CF COMBINATION FUSED
CN COMBINATION NON-FUSED
FS FUSED SWITCH
IU INTEGRAL WITH UNIT
MCP MOTOR CIRCUIT PROTECTOR
NFS NON-FUSED SWITCH
RP RECEPTACLE / PLUG CONNECTION

ACCESSORIES:
AC AUXILLIARY CONTACTS
GP GREEN (POWER) PILOT LIGHT
RAG RED, AMBER & GREEN PILOT LIGHTS
RG RED & GREEN PILOT LIGHTS

ABBREVIATIONS:
EC ELECTRICAL CONTRACTOR
GC GENERAL CONTRACTOR
MC MECHANICAL CONTRACTOR
MF MANUFACTURER
TC TEMPERATURE CONTROL
OT OTHER CONTRACTOR
OWN OWNER

GENERAL NOTES:
- ALL CONDUCTORS ARE COPPER. ALUMINUM CONDUCTORS WILL HAVE A NOTATION OF (AL) NEXT TO WIRE SIZE.

FOOT NOTES:
(1) - E.C. TO PROVIDE WIRING TO KXH-1 AND MAU-1. E.C. TO PROVIDE WIRING TO HOOD LIGHT / LIGHT SWITCH. E.C. TO PROVIDE WIRING TO CONTROL COMPONENTS (MANUAL PULL STATION, GAS SHUT-OFF VALVE, ETC.)
(2) - INTERLOCK MAU-1, H-1, AND KXF-1 AS REQUIRED.
(3) - PROVIDE SHUNT TRIP BREAKER FOR ALL RECEPTACLES / EQUIPMENT UNDER TYPE 1 HOOD.
(4) - ELECTRICAL LOAD AND BREAKER IS INDICATED AS A PLACEHOLDER ONLY. CONTRACTOR SHALL COORDINATE THE ACTUAL ANTICIPATED EQUIPMENT TO BE PROCURED BY THE OWNER PRIOR TO ORDERING PANEL/BREAKER AND PERFORMING ANY WIRING, ETC.
(5)- PROVIDE AS PART OF ALTERNATE BID.

MOTOR CONNECTION SCHEDULE

TAG	DESCRIPTION	LOCATION NO	LOCATION NAME	LOAD HP	kVA	F.L.A.	M.C.A.	VOLT	PH	OCP (Amps)	CIRCUITING INFORMATION WIRE SIZE & CONDUIT	PANEL	CIRCUIT #	STARTER TYPE	STARTER FURNISHED / INSTALLED	CONTROLLER TYPE	CONTROLLER FURNISHED / INSTALLED	DISCONNECT TYPE	DISCONNECT FURNISHED / INSTALLED	ACCESSORIES	NEMA TYPE/CONFIGURATION	POWER SOURCE TYPE: NORMAL	POWER SOURCE TYPE: LIFE SAFETY	POWER SOURCE TYPE: LEGALLY REQUIRED	POWER SOURCE TYPE: OPTIONAL STAND-BY	FOOT NOTES
KXF-1	KITCHEN EXHAUST FAN	-	ROOF	1.5	2.4	6.6	8.3	208	3	15	(3)#12,#12G - 3/4"C	L-1A	E.10.12	CS	EC	ECM	HC	NFS	EC		3R	•				(3)(2)
CP-1	CIRCULATION PUMP	103	MECH	0	0.0	0.3	0.4	120	1	15	(2)#12,#12G - 3/4"C	L-1A	14	-	-	CT	PC	NFS	EC			•				
DF-1	DESTRATIFICATION FAN	101	CONCESSIONS	0	0.6	5.0	6.3	120	1	15	#12,#12N,#12G - 3/4"C	L-1A	44	-	-	CT	HC	NFS	EC			•				
DF-2	DESTRATIFICATION FAN	101	CONCESSIONS	0	0.6	5.0	6.3	120	1	15	#12,#12N,#12G - 3/4"C	L-1A	44	-	-	CT	HC	NFS	EC			•				
DF-3	DESTRATIFICATION FAN	200	PRESS BOX	0	0.6	5.0	6.3	120	1	15	#12,#12N,#12G - 3/4"C	L-1A	42	-	-	CT	HC/EC	NFS	EC			•				
RX-1	ROOF EXHAUST FAN	-	ROOF	0.5	0.8	6.4	8.0	120	1	15	(2)#12,#12G - 3/4"C	L-1A	47	-	-	0/0	HC	NFS	EC		3R	•				

STARTER TYPES:
2-SPD TWO SPEED
CS COMBINATION STARTER
ECM ECM CONTROLLER
FVNR FULL VOLTAGE NON-REVERSING
FVR FULL VOLTAGE REVERSING
MAN MANUAL SWITCH
RVS REDUCED VOLTAGE
SS SOFT STARTER
VFD VARIABLE FREQUENCY DRIVE

CONTROL DEVICES:
0/0 ON-OFF SELECTOR SWITCH
BAS BUILDING AUTOMATION SYSTEM
CT CONTACTOR / RELAY
ECP EQUIPMENT CONTROL PANEL
HOA HAND-OFF-AUTO SWITCH
S/S STOP-START PUSHBUTTONS
TC TEMPERATURE CONTROLS
TS THERMOSTAT / TEMPERATURE SENSOR

DISCONNECT TYPES:
CB CIRCUIT BREAKER
CF COMBINATION FUSED
CN COMBINATION NON-FUSED
FS FUSED SWITCH
IU INTEGRAL WITH UNIT
MCP MOTOR CIRCUIT PROTECTOR
NFS NON-FUSED SWITCH
RP RECEPTACLE / PLUG CONNECTION

ACCESSORIES:
AC AUXILLIARY CONTACTS
GP GREEN (POWER) PILOT LIGHT
RAG RED, AMBER & GREEN PILOT LIGHTS
RG RED & GREEN PILOT LIGHTS

ABBREVIATIONS:
EC ELECTRICAL CONTRACTOR
GC GENERAL CONTRACTOR
MC MECHANICAL CONTRACTOR
MF MANUFACTURER
TC TEMPERATURE CONTROL
OT OTHER CONTRACTOR
OWN OWNER

GENERAL NOTES:
- ALL CONDUCTORS ARE COPPER. ALUMINIUM CONDUCTORS WILL HAVE A NOTATION OF (AL) NEXT TO WIRE SIZE.

FOOT NOTES:
(1) - INTERLOCK MAU-1, H-1, AND KXF-1 AS REQUIRED.
(2) - PROVIDE AS PART OF ALTERNATE BID.

LIGHTING CONTROLS SCHEDULE

TAG	DESCRIPTION	MOUNTING	DEVICE FUNCTION	MANUAL CONTROLS TYPE	MANUAL CONTROLS CONFIG.	SENSOR TYPE	SENSOR COVERAGE	CONNECTION INTERFACE	VOLTAGE	MANUFACTURER	MODEL SERIES	FOOT NOTES
LC-1	LIGHTING CONTROL DEVICE	WALL	MANUAL CONTROLS	DIMMING	4 BUTTON	-	-	CAT 6	POE	nLIGHT	nPODMA	(1)
OS-C	OCCUPANCY SENSOR	CEILING	SENSOR	-	NONE	DUAL TECHNOLOGY	STANDARD	CAT 6	POE	nLIGHT	nCM	(1)
PC	PHOTO CELL LIGHTING CONTROL - WALL MOUNTED	WALL	SENSOR	-	-	PIR	-	CAT 6	POE	nLIGHT	nIO PC KIT	(1)

FOOT NOTES:
(1) - PROVIDE nLIGHT RELAY / DIMMING PACK AS REQUIRED.

LUMINAIRE SCHEDULE

TAG	DESCRIPTION	DEPTH / HEIGHT	MOUNTING	NORMAL OPERATION LUMENS	NORMAL OPERATION WATTS	EMERGENCY OPERATION LUMENS	EMERGENCY OPERATION WATTS	EMERGENCY OPERATION TYPE	VOLTAGE	COLOR TEMP. (K)	C.R.I. (Min)	DIMMING	FINISH	MANUFACTURER	MODEL SERIES	FOOT NOTES
EX-1	EM LIGHT FIXTURE		SURFACE	0	0	640	7	(8)	120-277	-	80	NONE	WHT	LITHONIA	ELM4L-UVOLT-LTP-SDRT	
EX-2	EM LIGHT FIXTURE		SURFACE	0	0	640	7	(8)	120-277	-	80	NONE	WHT	LITHONIA	ELM4L-UVOLT-LTP-SDRT-ELAWG1	
L1	LINEAR FIXTURE		SURFACE	5,317	50	0	0	-	120-277	4000	80	0-10V 1%	WHT	LUMINAIRE LED	VPF8L-4-MIN1-NLIGHT-50W-40K	
L2	WALL MOUNTED LINEAR FIXTURE		SURFACE	4,000	33	0	0	-	120-277	4000	80	NONE	WHT	LITECONTROL	67L-W-D-404-DM-C1-40K-D100-NDN-1C-UNV	
L3	SCONCE FIXTURE		SURFACE	7,312	74	0	0	-	120-277	4000	80	0-10V 1%	BLACK	RAB LIGHTING	WRUD8-LED75-B-4K-W-SBK	
L5	LINEAR FIXTURE		SURFACE	6,000	58	0	0	-	120-277	4000	80	0-10V 1%	BLACK	AXIS LIGHTING	EX2S-750-80-40-SO-8-BLK-UNV-DPX-1-S-EF	
L7	2' x 4' FIXTURE		SURFACE	5,069	127	0	0		120-277	4000	80	0-10V 1%	WHITE	LITHONIA	CPX 2X4 5000LM 80CRI 40K SWL MIN1 MVOLT NLIGHT	
L8	WALL MOUNTED LINEAR FIXTURE		SURFACE	5,317	50	0	0		120-277	4000	80	0-10V 1%	WHITE	LITHONIA	ELM4L-UVOLT-LTP-SDRT	
L9E	EXTERIOR WALL PACK		SURFACE	2,912	24	550	14	(8)	120-277	4000	80	0-10V 1%	BLACK	LITHONIA	WPX1 LED P2 40K MVOLT E14WC DBLXD	
L10	EM SCONCE FIXTURE		SURFACE	0	0	500	11	-	120-277	-	80	NONE	BLACK	LITHONIA	AFN-BEXT	
L11	SOFFIT FIXTURE		SURFACE	2,500	0	0	0		120-277	4000	0	0-10V 1%	BLACK	HYDREL	RIDGE-LCB-2-MSL2-P1-80CRI-40K-MVOLT-WWD-CGL-UADJO-ZT-FCCSL25N-BL	
A01 BL-1	BOLLARD FIXTURE		SURFACE	1,276	32	0	0		120-277	4000	0	NONE	BLACK	COOPER LIGHTING	ABBAB2-8040-LED-36-D4-S-BK	

EMERGENCY OPERATION TYPES
(1) INTEGRAL BATTERY 7W
(2) INTEGRAL BATTERY (2) 7W
(3) INTEGRAL BATTERY 10W
(4) INTEGRAL BATTERY (2) 10W
(5) INTEGRAL BATTERY 15W
(6) INTEGRAL BATTERY 700 LUMEN
(7) INTEGRAL BATTERY 1400 LUMEN
(8) BATTERY WITH SELF-DIAGNOSTICS
(9) UL924 TRANSFER DEVICE (EXTERNAL OR INTERNAL)
(10) INTEGRAL GENERATOR TRANSFER DEVICE

INTEGRATED CONTROL TYPES
(1) WIRED - CAT 5e
(2) WIRED - CAT 6
(3) WIRELESS

INTEGRATED SENSOR TYPES
(1) PASSIVE INFRARED
(2) ULTRASONIC
(3) DUAL TECHNOLOGY (PIR+ULTRASONIC)
(4) DIMMING PHOTOCELL

GENERAL NOTES:

FOOT NOTES:
(1)

MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED FOR QUALITY AND PERFORMANCE ONLY. ALTERNATE LISTED LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES MANUFACTURED BY OTHERS SHALL BE EQUALLY ACCEPTABLE PROVIDED THEY MEET OR EXCEED IN PERFORMANCE AND QUALITY AS SPECIFIED.

ARCHITECTURE
ENGINEERING
INTERIOR DESIGN

HSR ASSOCIATES INC.
100 MILWAUKEE STREET
LA CROSSE, WISCONSIN
PHONE: 608.784.1830
FAX: 608.782.5844
www.hsrassociates.com

Consultant:
JDR ENGINEERING, INC.
5525 NOBEL DRIVE
SUITE 110
MADISON, WI 53711
PH 608.271.1728 FAX 608.271.1046
JDR PROJECT NO: 25.0062

Project Title: VILLAGE OF TREMPEALEAU
TREMPEALEAU PARK SHELTER - REBID

Project Location: 24016 12th Street
Trempealeau, WI 54661

Sheet Title: SCHEDULES - CONNECTIONS

HSR Project Number: 25013

Project Date: DECEMBER 2025

Drawn By: JDR

Key Plan:

Revisions:

No.	Description	Date
A01	ADDENDUM #1	1/8/2026

Graphic Scale:

Last Update: 1/8/2026 11:05:27 AM

E801