

VILLAGE OF HARRISON Attn: Chad Pelishek – Assistant Village Manager W5298 State Road 114 Harrison, WI 54952

PROJECT DESCRIPTION

AGREEMENT FOR PROFESSIONAL SERVICES

JANUARY 10, 2025 McM. No. H0006-06-24-00138 VILLAGE GARAGE EXPANSION STUDY FINAL PLANS FOR BIDDING & CONST.

In July of 2024, the Village of Harrison contracted with McMahon Associates, Inc. (McMahon) to provide architectural & structural services to 50% level of completion, civil / site services to 25% level of completion, and mechanical, electrical, and plumbing design services for the project were to be written narratives. All design services were used for an Opinion of Probable Cost to finalize this phase of design, with final design services in a later phase. The plans stemming from this agreement were approved in September of 2024 and presented to the Village Board on October 29th of 2024.

The Village of Harrison has requested these plans, designed by McMahon in 2024, be finished for bidding and construction in 2025. It is understood that bidding is to be completed in March of 2025 with construction following shortly thereafter if approved by the Village Board. This proposal covers the finalization of the previously approved drawings, creating Mechanical, Electrical, and Plumbing plans from the written narratives for bidding & State of Wisconsin plan approval.

It is understood that Construction Administration (shop drawing review and construction phase services) and Client's Representation during construction are to be an additional service at this time. Fee's for Construction Administration and Owners Representation during construction are based on 2025 billing rates. Should the Construction Phase begin in 2026 a new proposal will be required.

With this agreement, it is understood that the schematic design phase is now complete, and the floor plan / design concept is locked in. Please see the attachments to the proposal for the plans and narratives that will be used going forward for the completion of the design.

SCOPE OF SERVICES

A. GENERAL DESIGN SERVICES

- 1. Planning (Preliminary Design)
 - a. Attend Up to two virtual meetings for design coordination as required.
 - b. Coordinate design review meeting with Client.
- 2. Design
 - a. Develop construction documents based on previously approved preliminary design.
 - b. Develop specifications (including procurement and contracting requirements, general requirements, and technical sections).
 - c. Attend drawing coordination meeting reviews as required.

- d. Drawings to be developed in AutoDesk Revit format or Civil 3D, taken to a maximum coordination level of LOD:300.
- e. Coordinate 90% review meeting with Client.
- 3. Provide PDF format drawings and specifications for state submittals and bidding.
- 4. Submit drawings, specifications, calculations, and documentation as required for applicable agency reviews and permitting.

B. SURVEY SERVICES

- 1. Topographic Survey Services
 - a. Research public records for survey control data.
 - b. Contact Diggers Hotline to field locate public utilities.
 - c. Establish horizontal and vertical control points throughout the project.
 - d. Prepare a topographical survey of the project area to locate visible site features. Survey to include sufficient spot elevations to produce 1-foot contours.
 - e. Prepare an AutoCAD drawing of the topographical survey to be used as a base drawing to the engineering drawings.

C. CIVIL / SITE DESIGN SERVICES

- 1. Design
 - a. Stormwater Management Design / Plan
 - 1) Provide a stormwater management system design for only on-site stormwater runoff.
 - 2) Perform hydrologic, hydraulic, water quality, and infiltration analysis.
 - 3) Prepare a Stormwater Management Plan Report.
 - b. Civil / Site Design
 - 1) Prepare a Request for Proposal for Geotechnical Engineering services on behalf of the Client.
 - 2) Develop civil / site drawings and specifications.
 - 3) Prepare an existing conditions base AutoCAD drawing using information collected from the topographic land survey.
 - 4) Provide site grading design.
 - 5) Provide site utility design for sanitary sewer (gravity), water main and storm sewer that will serve the building.
 - 6) Perform an erosion and sediment control analysis and design.
 - 7) Prepare an erosion and sediment control narrative and sequence of construction.
 - 8) Prepare and submit to local authorities a Plan Review Package and assist the Client with coordinating the site plan review process.

2. Drawings include symbols, abbreviations, and basic erosion control notes sheet, existing conditions and survey control sheet, site plan, grading plan, erosion control plan, utility plan (storm sewer, sanitary sewer, and water main), and construction detail sheets.

D. ARCHITECTURAL DESIGN SERVICES

- 1. Design
 - a. Develop / finish architectural drawings and specifications.
 - b. Code review.
 - c. Prepare energy calculations (ComCheck).
 - d. The Client will sign off on design documents prior to bidding and state review.
- 2. Drawings include title sheet, architectural site plan, code sheets, floor, and roof plans, building sections and elevation, wall sections and architectural details, room finish and door schedules, and reflected ceiling plans.

E. STRUCTURAL DESIGN SERVICES

- 1. Planning (Preliminary Design)
 - a. Conceptual framing and foundation systems.
 - b. Basis of Design establishing systems and design loads.
- 2. Design
 - a. Develop structural drawings and specifications.
 - b. Structural design calculations. Design of structural system will be based on current Wisconsin Building Code.
- 3. Drawings include outline specifications and schedules, foundation and framing plans, column and bracing elevations, and foundation and framing details.

F. PLUMBING DESIGN SERVICES

- 1. Planning (Preliminary Design)
 - a. Develop Basis of Design including standards, codes, fixture types, and materials.
 - b. Plumbing site utility identification for water, not potable and sanitary.
- 2. Design
 - a. Develop plumbing drawings and specifications on sheet.
 - b. Site coordination and direction of utilities.
 - c. Identify water pressure, sanitary size, and elevation.
 - d. Plumbing flow calculations.
 - e. Construction administration; assume two RFIs and four submittal reviews.
 - f. Book specifications.

- g. Riser diagram and details.
- h. One onsite walk through.
- i. Design meetings via video conferencing, quantity of two, one hour each.
- 3. Drawings include cover sheet with abbreviations and symbols, underfloor DWV, above floor DWV piping, water piping.

G. HVAC DESIGN SERVICES

- 1. Planning (Preliminary Design)
 - a. Design based on previous HVAC Design Basis (Job# M22632) done for Village of Harrison.
- 2. Design
 - a. Develop HVAC drawings and specifications.
 - b. Final heating and cooling calculations.
 - c. Select final system option.
 - d. Design ventilation and exhaust ductwork and condensate system piping.
 - e. Fuel system design and layout from utility connections to HVAC equipment.
 - f. Final selection and design of system controls.
 - g. Construction administration: assume two RFI's, four submittal reviews, and one site visit.
 - h. Generate probable cost estimate.
 - i. Book specifications.
 - j. One onsite walk through.
 - k. Design meetings via video conferencing, quantity of two, one hour each.
 - I. Provide construction administration support.
- 3. Drawings include cover sheet with abbreviations and symbols, floor plans with ductwork and component layout, equipment schedules, and details.

H. ELECTRICAL/LIGHTING DESIGN SERVICES

- 1. Planning (Preliminary Design)
 - a. Coordination with electrical utility.
 - b. Develop one-line diagrams.
 - c. Selection of major distribution equipment.
- 2. Design
 - a. Develop electrical drawings and book specifications.
 - b. Final electrical design.
 - c. Electrical power distribution. Generator design is part of a separate contract.
 - d. Interior and exterior lighting, including lighting controls and egress lighting photometrics.

- e. Exterior lighting photometrics for permit submittal. *Site photometrics per IES recommendations and local zoning code lighting requirements.*
- f. Fire alarm system.
- g. Voice / Data System Includes network cabling, fiber optic cabling, racks, cable tray, jacks, patch panels, outlets, etc. It does not include IT equipment (rack-mount-UPS, network switches, wireless access points, VOIP phone systems).
- h. Provide coordination of security systems for empty conduit and power. Low voltage systems to be designed by the Client's vendors.
- i. COMCHECK energy calculations.
- 3. Drawings include electrical floor plans (general power distribution, receptacles, motors, and special outlets), circuiting, lighting (general and emergency egress, and lighting controls), special systems (voice / data, fire alarm, and provisions for security), one-line power distribution diagrams (service entrance and feeders), electrical schedules (motor and special outlet, light fixture schedule, lighting controls, panelboard, feeder, voltage drop, fault current, and disconnect switch), and electrical details.

I. BIDDING PHASE SERVICES

- 1. Assist with bidding documents.
- 2. Organize and conduct a pre-bid conference for prospective bidders.
- 3. Bid tabulation.
- 4. Answer bidder questions.

ITEMS NOT INCLUDED IN THE SCOPE OF SERVICES

The following is not intended to be a comprehensive list. It is intended to highlight general areas not included in the Scope of Services.

A. GENERAL

- 1. Redesign efforts necessitated by changes to site and building layout after planning phase approval or due to project budget reductions after bidding phase.
- 2. Permit / review fees to municipal / state agencies, including review and recording fees (McMahon will invoice as a reimbursable expense if required).
- 3. Geotechnical Services including soil borings, geotechnical report, and services during construction.
- 4. Construction Administration services or Owner's Representation during construction. (Optional Service)
- 5. Reproduction of plans and specifications (McMahon will invoice as a reimbursable expense if required).
- 6. Construction Administration services.
- 7. LEED administrative service, design, and LEED commissioning.

ITEMS NOT INCLUDED IN THE SCOPE OF SERVICES

- 8. Project BIM coordination.
- 9. Record / final BIM model.
- 10. Review change orders for completeness and compare scope of work against previously contracted scope of work.
- 11. Review contractor payment requests.
- 12. Obtain and review operation and maintenance manuals from contractors. Submit O&M manuals to Client.
- 13. Conduct site visits to observe construction.
- 14. Record drawings and certifications.

B. SURVEY / CIVIL / SITE

- 1. CSM.
- 2. ALTA/NSPS Land Title Survey.
- 3. Title/easement searches.
- 4. Environmental site assessments.
- 5. Wetland Delineation Report.
- 6. Applications for DNR and/or wetland permits.
- 7. Landscape design and plan.
- 8. Private utility locates.
- 9. Attendance at Village meetings. If required, meetings will be attended on a Time and Expense basis.
- 10. Archaeological, historical, endangered/threatened species.
- 11. Sampling and testing of soil, air, groundwater, building materials, and/or other media on the subject property.
- 12. Design of new services and/or relocation/demolition of existing gas, electric, telephone, fiber, and cable; and coordination with the respective utility companies.
- 13. Applications for rezoning, Conditional Use Permit, and / or variances to the Village Zoning Ordinance.
- 14. Preparation of easement documents, development, and lease agreements.
- 15. Design of public improvements in public right-of-way including street and utility upgrades.
- 16. Construction staking services.
- 17. Post-construction stormwater management.
- 18. Traffic Impact Analysis.
- 19. Design of pavement section(s).
- 20. Industrial Stormwater Permit and Stormwater Pollution Prevention Plan.
- 21. Irrigation design.
- 22. Stormwater infiltration analysis and design of stormwater infiltration devices.

ITEMS NOT INCLUDED IN THE SCOPE OF SERVICES

23. Wisconsin DNR Construction Site Stormwater Runoff Permit Application (land disturbance is assumed to be less than 1-acre).

C. ARCHITECTURAL / STRUCTURAL

- 1. Documentation of existing building conditions outside the immediate work area.
- 2. Finish color selections or interior design.
- 3. Renderings and animations.

D. HVAC / ELECTRICAL / PLUMBING

- 1. Design of mechanical systems not identified in HVAC services above such as compressed air system, solar panels (Photovoltaic system) atop roof, etc.
- 2. HVAC energy modeling of the buildings.
- 3. Review of existing construction documents of HVAC and / or plumbing systems not related to the scope of work.
- 4. Site surveys.
- 5. Any non-MEP engineering design services (civil, environmental, etc.).
- 6. Fire protection design services.
- 7. Alternative Systems/Design Evaluation & Analysis.
- 8. Any LEED-related reviews, designs, and documentation.
- 9. Construction cost estimates.
- 10. Detailed controls design, controls wiring diagrams, control panel component specification, etc.
- 11. Any fees including, but not limited to, application fees, impact fees, permit fees, resubmittal fees, AHJ inspection fees, etc.
- 12. Natural gas meter sizing, underground piping, and installation.
- 13. Plumbing DSPS submittal (under limit of 16 fixtures).
- 14. Design of voice / data and audio / visual systems.
- 15. Design of replacement electrical service entrance and replacement of major electrical gear.
- 16. Final design of fire alarm system and the final installation drawings are by fire alarm design/build contractor.
- 17. Design of security systems and audio / visual systems.
- 18. Design of generator part of separate contract.

CLIENT RESPONSIBILITIES

The Scope of Services and fee is based upon the understanding that Client will provide the following:

- A. Project information in a timely manner regarding requirements for and limitations to the project which shall establish the Clients objectives; schedule; constraints and criteria, including space requirements and relationships; flexibility; expansion requirements; equipment; systems and site requirements.
- B. Identify a representative authorized to act on the Client's behalf with respect to the project. Client shall render decisions and submittal reviews by McMahon in a timely manner in order to avoid unreasonable delays in the orderly and sequential progress of McMahon's services.
- C. Establish the overall project budget including the construction cost of the project, the Client's other costs, and reasonable contingency related to all these costs.
- D. Payment of all review and recording fees required by the review agencies and County Register of Deeds, which are not included in this Agreement.
- E. Geotechnical Report prepared by a Geotechnical Engineer stating the allowable soil bearing pressures and recommend foundation system.
- F. Coordinate the services of its own consultants with those services provided by McMahon.
- G. Sustainability requirements for the project.
- H. Access to the site and existing drawings.
- I. Receipt and review of bids.
- J. Marking of private utilities.
- K. The contractors shall locate and coordinate the final MEP drops/tie-ins to equipment.
- L. Equipment cut sheets for equipment being supported by building or foundation.

SPECIAL TERMS & CONDITIONS

A. AGREEMENT CONFIDENTIALITY

Client agrees that the Project Description, Scope of Services and Compensation sections contained in this Agreement, pertaining to this project or any addendum thereto, are considered confidential and proprietary, and shall not be released or otherwise made available to any third party, prior to the execution of this Agreement, without the expressed written consent of the McMahon Associates, Inc.

Refer also to the General Terms and Conditions attached to this Agreement.

COMPENSATION

McMahon Associates, Inc. agrees to provide the Scope of Services described above for the following Lump Sum compensation.

DESIGN, BIDDING & STATE PLAN APPROVAL SERVICES FEE

•	Topographic Survey Services	\$1,000.00
	Civil / Site Design Services	\$10,000.00
	Bidding Services	\$4,000.00
	Architectural Design Services	\$18,000.00
	Structural Design Services	\$10,000.00
	Plumbing Design Services	\$21,168.00
	HVAC Design Services	\$27,664.00
	Electrical Design Services	\$16,000.00
	DESIGN, BIDDING & STATE PLAN APROVAL SERVICES FEE SUBTOTAL	\$107,832.00

ESTIMATED REIMBURSABLE EXPENSES

то	TAL PROJECT FEES THROUGH BIDDING & STATE PLAN APPROVAL	\$109,482.00
	TOTAL ESTIMATED REIMBURSABLE EXPENSES	\$1,650.00
	State Fees	\$1,400.00
	Mileage	\$250.00

CONSTRUCTION ADMINISTRATION SERVICES FEE – BASED ON 2025 RATES

- 1. Review shop drawings.
- 2. Respond to Requests for Information (RFIs).
- 3. Answer questions during the construction phase.
- 4. Perform walk-through with the Client's Representative at project completion to develop punch list of items to be completed or corrected by the contractor.

OWNERS REPRESENTATION DURING CONSTRUCTION – BASED ON 2025 RATES

- 1. Assumes six-month construction schedule.
- 2. Up to 24 site visits during construction.
- 3. Includes milage and two hours on site per visit.
- 4. Review change orders for completeness and compare scope of work against previously contracted scope of work.
- 5. Review contractor payment requests.
- Client's Construction Representation during Construction (Time & Expense Budget)....**\$15,000.00**

COMPLETION SCHEDULE

McMahon Associates, Inc. agrees to complete this project as follows:

 Complete planning and design phase within 8-10 weeks after authorization to proceed and we recommend (4) weeks for the bid phase.

Please note that the pace of DSPS reviews and approvals for site related submittals may impact the design completion schedule.

ACCEPTANCE

The General Terms & Conditions and the Scope of Services (defined in the above Agreement) are accepted, and McMahon Associates, Inc. is hereby authorized to proceed with the services. The Agreement fee is firm for acceptance within sixty days from date of this Agreement.

VILLAGE OF HARRISON

W5298 State Road 114 Menasha, WI 54952

Authorized Signature

Date

McMAHON ASSOCIATES, INC.

1445 McMahon Drive | PO Box 1025 Neenah, WI 54956 | 54957-1025 920.751.4200 | MGMGRP.COM

Michael A. Martin, AIA Associate / Senior Architect

January 10, 2025

Date

Attachments: General Terms and Conditions Fee Schedule Reimbursable Schedule

W \ Projects \ H0006s \ 062400138 \ Admin \ Agreement \ 25_0103 Village of Harrison DPW Final Plans Proposal.docx



MCMAHON ASSOCIATES, INC. GENERAL TERMS & CONDITIONS

- 1.1 <u>Services:</u> McMahon Associates, Inc. (McMahon) shall perform services consistent with the professional skill and care ordinarily provided by engineers/architects practicing in the same or similar locality under the same or similar circumstances. McMahon shall provide its services as expeditiously as is consistent with such professional skill and care and the orderly progress of the Project.
- 1.2 <u>Client's Representative:</u> McMahon intends to serve as the Client's professional representative for those services, as defined in this Agreement, and to provide advice and consultation to the Client as a professional. Any opinions of probable project costs, approvals and other decisions made by McMahon for the Client are rendered based on experience and qualifications and represent our professional judgment. This Agreement does not create, nor does it intend to create a fiduciary relationship between the parties.
- 1.3 <u>Warranty, Guarantees, Terms and Conditions</u>: McMahon does not provide a warranty or guarantee, expressed or implied, for professional services. This Agreement or contract for services is not subject to the provisions of uniform commercial codes. Similarly, McMahon will not accept those terms and conditions offered by the Client in its purchase order, requisition or notice of authorization to proceed, except as set forth herein or expressly accepted in writing. Written acknowledgment of receipt, or the actual performance of services subsequent to receipt, of any such purchase order, requisition or notice of authorization to proceed is specifically deemed not to constitute acceptance of any terms or conditions contrary to those set forth herein.

2. PAYMENT AND COMPENSATION

- 2.1 <u>Invoices:</u> McMahon will bill the Client monthly with net payment due in 30-days. Past due balances shall be subject to an interest charge of 1.0% per month. Client is responsible for interest charges on past due invoices, collection agency fees and attorney fees incurred by McMahon to collect all monies due McMahon. Client is responsible for all taxes levied on professional services and on reimbursable expenses. McMahon and Client hereby acknowledge that McMahon has and may exercise lien rights on subject property.
- 2.2 <u>Reimbursables:</u> Expenses incurred by McMahon for the project including, but not limited to, equipment rental will be billed to the Client at cost plus 10% and sub-consultants at cost plus 12%. When McMahon, after execution of an Agreement, finds that specialized equipment must be purchased to provide special services, the cost of such equipment will be added to the agreed fee for professional services only after the Client has been notified and agrees to these costs.
- 2.3 <u>Changes:</u> The stated fees and Scope of Services constitute McMahon's professional opinion of probable cost of the fees and tasks required to perform the services as defined. For those projects involving conceptual or process development services, activities often cannot be fully defined during initial planning. As the project progresses, facts uncovered may reveal a change in direction, which may alter the Scope. Changes by the Client during design may necessitate re-design efforts. McMahon will promptly inform the Client in writing of such situations so changes in this Agreement can be negotiated, as required.
- 2.4 <u>Delays and Uncontrollable Forces</u>: Costs and schedule commitments shall be subject to re-negotiation for delays caused by the Client's failure to provide specified facilities or information, or for force majeure delays caused by unpredictable occurrences, including without limitation, fires, floods, riots, strikes, unavailability of labor or materials, delays or defaults by suppliers of materials or services, process shutdowns, infectious diseases or pandemics, acts of God or the public enemy, or acts or regulations of any governmental agency. Temporary delay of services caused by any of the above, which results in additional costs beyond those outlined, may require re-negotiation of this Agreement.

3. INSURANCE

3.

3.1	Limits: McMahon will maintain insurance coverage in the following amounts:	
	Worker's Compensation	Statutory
	General Liability	
	Bodily Injury - Per Incident/Annual Aggregate	\$1,000,000 / \$2,000,000
	Automobile Liability	
	Bodily Injury	\$1,000,000
	Property Damage	\$1,000,000
	Professional Liability Coverage	\$2,000,000

If the Client requires coverage or limits in addition to the above stated amounts, premiums for additional insurance shall be paid by the Client.

McMahon's liability to Client for any indemnity commitments, reimbursement of legal fees, or for any damages arising in any way out of performance of our contract or based on tort, breach of contract, or any other theory, is limited to ten (10) times McMahon's fee not to exceed to \$250,000.

3.2 <u>Additional Insureds:</u> Upon request and to the extent permitted by law, McMahon shall cause the primary and excess or umbrella policies for Commercial General Liability and Automobile Liability to include the Client as an additional insured for claims caused in whole or in part by McMahon's negligent acts or omissions. The additional insured coverage shall be primary and non-contributory to any of the Client's insurance policies and shall apply to both ongoing and completed operations.

To the extent permitted by law, Client shall cause the contractor, if any, to include McMahon as an additional insured on contractor's Commercial General Liability, Automobile Liability and Excess or Umbrella policies to include McMahon as an additional insured for claims caused in whole or in part by contractor's negligent acts or omissions. The additional insured coverage shall be primary and non-contributory to any of McMahon's insurance policies and shall apply to both ongoing and completed operations.

4. CLAIMS AND DISPUTES

- 4.1 <u>General:</u> In the event of a dispute between the Client and McMahon arising out of or related to this Agreement, the aggrieved party shall notify the other party of the dispute within a reasonable time after such dispute arises. The Client and McMahon agree to first attempt to resolve the dispute by direct negotiation.
- 4.2 <u>Mediation:</u> If an agreement cannot be reached by the Client and McMahon unresolved disputes shall be submitted to mediation per the rules of the American Arbitration Association. The Client and McMahon shall share the mediator's fee and any filing fees equally.
- 4.3 <u>Binding Dispute Resolution</u>: If the parties do not resolve a dispute through mediation the method of binding dispute resolution shall be litigation in a court of competent jurisdiction.

5. TERMINATION OR SUSPENSION

- 5.1 <u>Client:</u> Termination of this Agreement by the Client shall be effective upon seven (7) day written notice to McMahon. The written notice shall include the reasons and details for termination; payment is due as stated in above Section 2.
- 5.2 <u>McMahon:</u> If the Client defaults in any of the Agreements entered into between McMahon and the Client, or if the Client fails to carry out any of the duties contained in these Terms & Conditions, McMahon may, upon seven (7) days written notice, suspend its services without further obligation or liability to the Client unless, within such seven (7) day period, the Client remedies such violation to the reasonable satisfaction of McMahon.
- 5.3 <u>Suspension for Non-Payment:</u> McMahon may, after giving 48-hours' notice, suspend service under any Agreement until the Client has paid in full all amounts due for services rendered and expenses incurred.

6. COPYRIGHTS AND LICENSES

- 6.1 <u>Instruments of Service:</u> McMahon and its subconsultants shall be deemed the author and owner of their respective Instruments of Service (IOS), including the Drawings, Specifications, reports, and any computer modeling (BIM, etc.), and shall retain all common law, statutory and other reserved rights, including copyrights.
- 6.2 <u>Licenses:</u> McMahon grants to the Client a nonexclusive license to use McMahons' IOS solely and exclusively for the purposes of constructing, using, and maintaining the project, provided that the Client substantially performs its obligations under this Agreement, including prompt payment of all sums due.
- 6.3 <u>Re-use:</u> Use of IOS pertaining to this project by the Client for extensions of this project or on any other project shall be at the Client's sole risk and the Client agrees to defend, indemnify, and hold harmless McMahon from all claims, damages and expenses, including attorneys' fees arising out of such re-use of the IOS by the Client or by others acting through the Client.

7. AGREEMENT CONDITIONS

- 7.1 The stipulated fee is firm for acceptance by the Client within 60-days from date of Agreement publication.
- 7.2 Modifications: This Agreement, upon execution by both parties hereto, can be amended only by written instrument signed by both parties.
- 7.3 <u>Governing Law:</u> This Agreement shall be governed by the law of the place where the project is located, excluding that jurisdiction's choice of law rules.
- 7.4 <u>Mutual Non-Assignment</u>: The Client and McMahon, respectively bind themselves, their agents, successors, assigns and legal representatives to this Agreement. Neither the Client nor McMahon shall assign this Agreement without the written consent of the other.
- 7.5 <u>Severability:</u> The invalidity of any provision of this Agreement shall not invalidate the Agreement or its remaining provisions. If it is determined that any provision of the Agreement violates any law, or is otherwise invalid or unenforceable, then that provision shall be revised to the extent necessary to make that provision legal and enforceable. In such case the Agreement shall be construed, to the fullest extent permitted by law, to give effect to the parties' intensions and purposes in executing the Agreement.
- 7.6 Third Party: Nothing contained in this Agreement shall create a contractual relationship with, or a cause of action, in favor of a third party against McMahon.

8. MISCELLANEOUS PROVISIONS

- 8.1 <u>Additional Client Services:</u> The Client agrees to provide such legal, accounting and insurance counseling services as may be required for the project for the Client's purpose.
- 8.2 <u>Means and Methods</u>: McMahon is not responsible for direction or supervision of construction means, methods, techniques, sequence, or procedures of construction selected by contractors or subcontractors, or the safety precautions and programs incident to the work of the contractors or subcontractors.
- 8.3 <u>Purchase Orders:</u> In the event the Client issues a purchase order or other instrument related to McMahon's services, it is understood and agreed that such document is for Client's internal accounting purposes only and shall in no way modify, add to, or delete any of the terms and conditions of this Agreement. If the Client does issue a purchase order, or other similar instrument, it is understood and agreed that McMahon shall indicate the purchase order number on the invoice(s) sent to the Client.
- 8.4 <u>Project Maintenance</u>: The Client (or Owner if applicable) shall be responsible for maintenance of the structure, or portions of the structure, which have been completed and have been accepted for its intended use. All structures are subject to wear and tear, and environmental and man-made exposures. As a result, all structures require regular and frequent monitoring and maintenance to prevent damage and deterioration. Such monitoring and maintenance is the sole responsibility of the Client or Owner. McMahon shall have no responsibility for such issues or resulting damages.
- 8.5 <u>Consequential Damages</u>: Notwithstanding any other provision of the Agreement, neither party shall be liable to the other for any consequential damages incurred due to the fault of the other party, regardless of the nature of this fault or whether it was committed by the Client or the Design Professional, their employees, agents, subconsultants or subcontractors. Consequential damages include, but are not limited to, loss of use and loss of profit.
- 8.6 <u>Corporate Protection</u>: It is intended by the parties to this Agreement that McMahon's services in connection with the project shall not subject McMahon's individual employees, officers, or directors to any personal legal exposure for the risks associated with this project. Therefore, and notwithstanding anything to the contrary contained herein, the Client agrees that as the Client's sole and exclusive remedy, any claim, demand, or suit shall be directed and/or asserted only against McMahon, a Wisconsin corporation, and not against any of McMahon's employees, officers, or directors.
- 8.7 <u>Contingency:</u> McMahon's professional services are not a warranty or guarantee. The project will evolve and be refined over time. The Client shall provide appropriate contingency for design and construction costs consistent with the reasonable progression of the project. The Client and McMahon agree that revisions due to design clarifications or omissions which result in changes in work during the construction phase which amount to 5% or less of construction costs shall be deemed within the contingency and consistent with the professional standard of care. The Client agrees to make no claim for costs related to changes in work within this threshold. Claims in excess of this threshold shall be resolved per the dispute resolution process.
- 8.8 <u>Project Costs Associated with Agency Plan Review:</u> McMahon will not be responsible for additional project costs due to changes to the design, construction documents, and specifications resulting from the agency plan review process. The project schedule shall either allow for the agency plan review process to occur prior to the Bid Phase or if this review occurs after the Bid Phase the Client agrees that any additional costs would be considered part of the project contingency.
- 8.9 <u>Hazardous Materials:</u> McMahon shall have no responsibility for the discovery, presence, handling, removal, or disposal of, or exposure of person to, hazardous materials or toxic substance in any form at the project site.
- 8.10 <u>Climate:</u> Design standards which exceed the minimum requirements within current codes and regulations are excluded. If requested by the Client, climaterelated design services or evaluations can be provided for additional compensation.



REIMBURSABLE EXPENSE SCHEDULE * | 2025

McMahon Associates, Inc.

Effective: 01/01/2025

ESCRIPTION	RATE
EIMBURSABLE EXPENSES:	
Commercial Travel	1.1 of Cost
Delivery & Shipping	1.1 of Cost
Meals & Lodging	1.1 of Cost
Review & Submittal Fees	1.1 of Cost
Outside Consultants	1.12 of Cost
Photographs & Models	1.1 of Cost
Misc. Reimbursable Expenses & Project Supplies	1.1 of Cost
Terrestrial Laser Scanner	\$1,500.00
EIMBURSABLE UNITS:	
Copy Charges - Black & White	\$0.08/Image
Copy Charges - Color / 8½" x 11"	\$0.45/Image
Copy Charges - Color / 8½" x 14" and 11" x 17"	\$0.75/Image
Mileage	\$0.81/Mile
Mileage - Truck/Van	\$1.11/Mile
All-Terrain Vehicle	\$100.00/Day
Global Positioning System (GPS)	\$21.00/Hour
Hand-Held Global Positioning System (GPS)	\$15.00/Hour
Robotic Total Station	\$20.00/Hour
Survey Hubs	\$0.50/Each
Survey Lath	\$1.00/Each
Survey Paint	\$7.15/Can
Survey Ribbon	\$3.00/Roll
Survey Rebars - 1¼"	\$10.00/Each
Survey Rebars - ¾"	\$3.50/Each
Survey Rebars - ⁵ ⁄⁄⁄″	\$3.50/Each
Survey Iron Pipe - 1"	\$4.50/Each
Survey Steel Fence Post - 1"	\$7.75/Each
Control Spikes	\$2.50/Each
Pin Flags	\$0.30/Each

NEENAH, WISCONSIN CORPORATE HEADQUARTERS

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* This schedule is not all inclusive.

SHEET INDEX

SHEET NO. GENERAL	SHEET DESCRIPTION	ISSUED FOR VILLAGE BOARD REVIEW OCTOBER 29, 2024			
A001	TITLE SHEET	X			
A011	LIFE SAFETY NOTES	X			
A012	LIFE SAFETY PLAN	X			
A020	ARCHITECTURAL SITE PLAN	X			
E001	ELECTRICAL NARRATIVE	X			
E002	ELECTRICAL NARRATIVE	X			
M001	MECHANICAL NARRATIVE	Х			
P001	PLUMBING NARRATIVE	Х			
ARCHITECTUR					
A101	EXISTING PLAN	X			
A111	FIRST FLOOR DEMOLITION PLAN	X			
A211	FIRST FLOOR PLAN	X			
A231	ROOF PLAN	Х			
A241	FINISH PLAN	X			
A271		X			
A291	DOOR SCHEDULE, DOOR & WINDOW ELEVATIONS	X			
A301	EXTERIOR ELEVATIONS	X			
A311	BUILDING SECTIONS	X			
A351	WALL SECTIONS	X			
A352 A411	WALL SECTIONS ENLARGED RESTROOM PLANS & ELEVATIONS	X X			
A411 A511	INTERIOR ELEVATIONS	X			
ADTI		^			
STRUCTURAL					
S11001010AL	STRUCTURAL SPECIFICATIONS	Х			
S002	STRUCTURAL SCHEDULES	X			
S201	FOUNDATION PLAN	X			
S202	ROOF FRAMING PLAN	X			
0202					

A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON

MENASHA, WI

PROJECT LOCATION MAP



PROJECT LOCATION-W5298 STATE RD. 114 HARRISON, WI 54952

SYMBOL KEY								
DIRECTION SECTION IS CUT SECTION NUMBER A351 SHEET SECTION APPEARS ON	2 ELEVATION NUMBER A351 SHEET ELEVATION APPEARS ON	DESCRIPTION FIRST FLOOR 100'-0" ELEVATION	2 GRID DESIGNATION					
SECTION	ELEVATION	ELEVATION DATUM	COLUMN GRID					
2 DETAIL NUMBER A351 SHEET DETAIL APPEARS ON	1 DIRECTION OF ELEVATION A351 2 ELEVATION NUMBER SHEET ELEVATION APPEARS ON	ROOM - ROOM NAME 101 - ROOM NUMBER	CEILING TYPE					
DETAIL	INTERIOR ELEVATION	ROOM NAME & NUMBER	CEILING KEY					
TYPE ID E1 ELEMENT DESCRIPTION	WINDOW NUMBER	2	REVISION CLOUD AROUND REVISED ITEMS					
EQUIPMENT TYPE	WINDOW TYPE	PLAN KEYNOTE	REVISION					
WALL ID	DOOR NUMBER	A1	(1A)					
WALL TYPE	DOOR TYPE	ACCESSORY KEYNOTE	DEMOLITION KEYNOTE					



ABILITIES ACT	FD FE FEC FIN FL	FLOOR DRAIN FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FINISH / FINISHED	STD STL STRUCT T&B T&G	STANDARD STEEL STRUCTURAL TOP AND BOTTOM TONGUE & GROOVE
LOOR RNATIVE	FND FUT GALV	FLOOR FOUNDATION FUTURE GALVANIZED CENERAL CONTRACTOR	T TBD TYP	TREAD TO BE DETERMINED TYPICAL
	GC GYP BD HB HDCP	GENERAL CONTRACTOR GYPSUM BOARD HOSE BIB HANDICAP	UNO W/ W/O WD	UNLESS NOTED OTHERWISE WITH WITHOUT WOOD
	HM HR ID IMP	HOLLOW METAL HOUR INSIDE DIAMETER INSULATED METAL PANEL		
IRY UNIT	IMP INSUL INT LAV	INSULATED METAL PANEL INSULATION INTERIOR LAVATORY		
	MAX MECH MISC	MAXIMUM MECHANICAL MISCELLANEOUS		
	MFG MIN MO	MANUFACTURER MINIMUM MASONRY OPENING		
N	NIC NTS OC	NOT IN CONTRACT NOT TO SCALE ON CENTER		
	OD OSB PC	OUTSIDE DIAMETER ORIENTED STRAND BOARD PRECAST		
	PLAM PR QT	PLASTIC LAMINATE PAIR QUARRY TILE		
RICAL	R RD REINF	RISER ROOF DRAIN REINFORCING / REINFORCED		
OSED	REQ RM RO	REQUIRED ROOM ROUGH OPENING		
COOLER	SC SCHED SF SIM	SEALED CONCRETE SCHEDULE SQUARE FOOT SIMILAR TO		
	SPEC SS	SPECIFICATION STAINLESS STEEL		

ABBREVIATIONS

DESIGN TEAM **ARCHITECTURAL**

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<u>HVAC</u>

CPH 444 REID STREET, SUIT 103 DE PERE, WI 54115 (866) 609-0688 PROJECT MANAGER: GRANT GILBAUGH SUPERVISOR PROFESSIONAL: JEFF DEAL E-MAIL: jdeal@cphcorp.com

PLUMBING

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ELECTRICAL

McMAHON 1445 McMAHON DRIVE NEENAH, WI 54956 (920) 751-4200 PROJECT MANAGER: JILL FITZSIMONS E-MAIL: jfitzsimons@mcmgrp.com

CONSTRUCTION DOCUMENTS, AND AS SUCH, MUST BE USED TOGETHER AS THE BASIS OF DESIGN. THE CONTRACTOR IS SPECIFICALLY INSTRUCTED NOT TO LIMIT THEIR UNDERSTANDING OF THE SCOPE OF THIS PROJECT BASED UPON THE SPECIFICATIONS INDEX. THE CONTRACTOR IS RESPONSIBLE TO REVIEW ALL INFORMATION IN BOTH THE DRAWINGS AND SPECIFICATIONS, AND IS THEREFORE, REQUIRED TO PROVIDE ALL DEFINED, AND REASONABLY IMPLIED, SCOPE OF WORK NO MATTER WHERE IT APPEARS IN THE CONSTRUCTION DOCUMENTS. IN ADDITION. THE CONTRACTOR IS TO REVIEW ANY FORMALLY PROVIDED MODIFICATIONS, CLARIFICATIONS, ADDENDUMS AND/OR OTHER INFORMATION AND INCORPORATE THAT INFORMATION INTO THE

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IMPORTANT NOTICE: THE DRAWINGS AND THE SPECIFICATIONS TOGETHER REPRESENT THE

CODE SU	IMMARY							
BUILDING ADDITIC 54952	ON AND RENOVATIO	ON FOR TH	E VILLAGE	OF HARRIS	ON W5298	STATE ROAD 1	14, HARRIS	IW NC
VILLAGE OF HARF CLIMATE ZONE: 6/								
RENOVATION: TYI	CCUPANCY w/ S-1 PE IIB EXISTING BU	ILDING IS L	JNSPRINKL	ERED AD	DITIÔN: TY	PE IIB UNSPRIN	NKLERED	
RENOVATION IS S	SINGLE STORY RE	THE EXISTI	NG BUILDII	NG BY AN E	EXISTING (3) HOUR FIRE W		
RENOVATION IS A	ARATED FROM THE IN ALTERNATION LE LDING & HVAC - CO	EVEL 2 & A	CHANGE O	F OCCUPA	NCY FROM	S-2 TO B OCCU		
	EDING & HVAC-CO	-	- PRE-ENGI	NEEREDIM		JING		
PROJECT NARRA	TIVE: ONTAINS (2) WORK	AREAS: LE	VEL 2 ALTE	ERATION T	O THE EXIS	TING WASH BA	Y WITH	
CHANGE OF OCCU STORAGE (NO VE	UPANCY (S-2 TO B) HICLE REPAIR). THI	& A TYPE I E EXISTING	B BUILDING	G ADDITION	N FOR ADDI ATED BY (4)	TIONAL VEHIC EXISTING (3) F	LE IOUR FIRE	
	IOVATION AREA IS (M THE EXISTING CO					. THE NEW AD	DITION IS	
APPLICA	BLE CODI	ES:						
	IAVE BEEN PREPAF ES - NOTIFY THE AF							
CODES: 2018 WISCONSIN	ADMINISTRATIVE C	ODE, SPS	361-366					
2015 INTERNATIO	NAL BUILDING COD NAL EXISTING BUIL	DING ĆODI						
2015 INTERNATIO	NAL ENERGY CONS	CODE (IMC)		CC)				
2015 INTERNATIO	LECTRIC CODE (NE NAL FUEL GAS COE 7.1-2009 ACCESSIBL	E (IFGC)						
	.1-2009 ACCESSIBE				AGILITILO			
RENOVATION: OCCUPANCIES: E	3 & S-1		CONSTRU	CTION TYP	E: IIB			
ACTUAL HEIGHT (IN FEET)ALLOWABLE (TABLE 504.3)ACTUAL HEIGHT (IN STORIES)ALLOV (TABLE								
BUILDING HEIGH	18'-6" @ M	, ID		,	```	(IN STORIES) (1) STORY		STORIES
							STURIES	
ADDITION: OCCUPANCIES: S-2 CONSTRUCTION TYPE: IIB								
OCCUPANCIES: S-2 CONSTRUCTION TYPE: IIB ACTUAL HEIGHT (IN FEET) ALLOWABLE (TABLE 504.3) ACTUAL HEIGHT (IN STORIES) ALLOWABLE (TABLE 504.4)								
BUILDING HEIGH	18'-6" @ M	, ID	Υ	S) FEET	```	,	S-2 = 3 (N/S)	,
	POINT OF	ROOF	55 (11/5	5) FEET		STORY	3-2 - 3 (11/3)	STORIES
· · · ·	ION-SPRINKLERED PRINKLERED ONE-S	STORY				PA 13 PA 13R		
(SM) S	PRINKLERED MULT		RIES			PA 13D PA 72 - FIRE AI		
	ALLY SPRINKLERE), DESCRIF	TION:					
						_		
FIRE ALARM: CC	VERAGE: X	COMPLET	E	PARTIAL		NONE		
			IC DETECT	ION	×	MANUAL ALA		
MONITORI		CENTRAL						SION
FRONTAGE INCRE		_	SUPERVISIO	JN		PROTECTED	PREMISES	
FRONTAGE INCR								
MAXIMUM BUILDI	NG AREA FROM SE	CTION 506.	2					
	E AREA (SQUARE FE LOWABLE AREA FA	,						
If = AREA FACTO	LLOWABLE AREA F	O FRONTA	GE (FROM)	ABOVE CAI	CULATION)		,
SECTION 506.2.1))
	MIXED-OCCUPANC 1 Aa / ALLOWABLE					(REA) + < 1		
	SINGLE-OCCUPAN					((LA) ' < 1.0		
SECTION 506.2.4 EACH STORY (3 S	MIXED OCCUPANC STORY MAX.) TO IN D: (OCCUPANCY 1	DIVIDUALL	Y COMPLY	USING MOS				
STORY NUMBER	DESCRIPTION	BUILDI	NG AREA	тари	506 0			
	AND USE		STORY TUAL)		E 506.2 REA	FRONTAGE INCREASE	ALLOWAB PER ST OR UNLI	FORY
RENOVATION	OFFICES &	B OCC =	1,784 SF = 795 SF	B OCC =2	,	NOT USED	B OCC =2	3,000 SF
(1) STORY ADDITION	STORAGE VEHICLE				= 17,500 SF = 26,000 SF	NOT USED	-	: 17,500 SF : 26,000 SF
(1) STORY	STORAGE							
	JPANCY "B" ACCES			5-1"				
508.4.2 ALLOWAE		ES "B" AND	"S-1"					
,	4 SF / 23,000 = .077 5 SF / 17,500 = .045	- 1						
	.122 UIRED SEPARATIO		JPANCIES '	'B" איי "פ	1" = 이 ㅂ으니며	RS		
	NCIDENTAL USES: I							
	JPANCY "S-2" ACCE			- NI/A				

508.2 MAIN OCCUPANCY "S-2" ACCESSORY OCCUPANCY = N/A 508.3.3 UNSEPERATED OCCUPANCIES = N/A TABLE 508.4 REQUIRED SEPARATION OF OCCUPANCIES = N/A TABLE 509 LIST INCIDENTAL USES: N/A

TABLE 601 FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	RATING REQUIRED	RATING PROVIDED
PRIMARY STRUCTURAL FRAME	0	0
BEARING WALLS (EXTERIOR)	0	0
BEARING WALLS (INTERIOR)	0	0
NON-BEARING WALLS (INTERIOR)	0	0
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	0

FIRE SEPARATION REQUIREMENTS PER TABLE 602: EXTERIOR NON-BEARING WALLS AND PARTITIONS

FIRE SEPARATION DISTANCE	CONSTRUCTION TYPE	OCCUPANCY	USE	FIRE RATING (HOURS)
x < 5'	IIB	B S-1 S-2	BUSINESS STORAGE VEHICLE STORAGE	1 HR 1 HR 1 HR
5' < x < 10'	IIB	B S-1 S-2	BUSINESS STORAGE VEHICLE STORAGE	1 HR 1 HR 1 HR
10' < x < 30	IIB	B S-1 S-2	BUSINESS STORAGE VEHICLE STORAGE	0 HR 0 HR 0 HR
30' < x	IIB	B S-1 S-2	BUSINESS STORAGE VEHICLE STORAGE	0 HR 0 HR 0 HR

PERCENTAGE OF WALL OPENING PER TABLE 705.8

N/A

FIRE WALL NOTES:

BUILDING ADDITION: 706.5 HORIZONTAL CONTINUITY - 18" EXTENTION PAST THE EXTERIOR SURFACE OF EXTERIOR WALLS

706.5.2 HORIZONTAL PROJECTIONS (SOUTH OVERHANG) - EXTEND TO THE OUTER EDGE OF PROJECTING ELEMENT 706.6 VERTICAL CONTINUITY - EXTEND 30" ABOVE ROOF

FIRE AREA RATING REQUIREMENTS FOR FIRE BARRIER OR HORIZONTAL ASSEMBLIES TABLE 707.3.10 N/A

OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS TABLE 716.5

TYPE OF ASSEMBLY	REQ'D WALL ASSEMBLY RATING (HR)	MIN. FIRE DOOR ASS'Y RATING (HR)	DOOR VISION PANEL SIZE	FIRE-RATED DOOR GLAZING VISION PANEL	MIN. SIDELIGHT/ TRANSOM ASS'Y RATING (HR)	FIRE-RATED GLAZING SIDELIGHT / TRANSOM PANEL
FIRE WALLS / BARRIERS	3 HR	3 HR	ASTM E119 MAX. SIZE	D-H-W-240	3 HR	SIDELIGHT NOT PERMITTED

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY TABLE 803.11

OCCUPANCY GROUP	INTERIOR EXIT STAIRWAYS / RAMPS / PASSAGEWAYS	CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS/RAMPS	ROOMS AND ENCLOSED SPACES
В	CLASS A	CLASS B	CLASS C
S	CLASS B	CLASS B	CLASS C

OCCUPANT LOAD CALCULATIONS - RENOVATION

OCCUPANCY	AREA PER F	LOOR				1	004.1.2 AREA	NUMBER OF	SPRINKLER
TYPE	BASEMENT	FIRST	SECOND	THIRD	ROOF	TOTAL	/ OCCUPANT		
B- BUSINESS	0	1,784	0	0	0	1,784	/100	18	NO
S-1 STORAGE	0	795	0	0	0	795	/300	3	NO

OCCUPANT LOAD CALCULATIONS - ADDITION

OCCUPANCY	AREA PER F	LOOR				1	004.1.2 AREA	NUMBER OF	SPRINKLER
TYPE	BASEMENT	FIRST	SECOND	THIRD	ROOF	TOTAL	/ OCCUPANT	OCCUPANTS	REQ'D, 903.2
S-2 STORAGE	0	8,984	0	0	0	8,984	/200	45	NO

(1006: SINGLE OR MULTIPLE EXITS REQUIRED, BASED ON DISTANCE / # OF NUMBER AND ARRANGEMENT OF EXITS OCCUPANTS; 1017.2 TOTAL EXIT ACCESS TRAVEL DISTANCE ALLOWED)

REQUIRED EGRESS WIDTH:

RENOVATION: 0.2 FOR EGRESS COMPONENTS AND 0.3 FOR STAIRS 21 OCC x .2 = 4.2 INCHES REQUIRED 32" PROVIDED

ADDITION: 0.2 FOR EGRESS COMPONENTS AND 0.3 FOR STAIRS 45 OCC x .2 = 9 INCHES REQUIRED 128" PROVIDED

EXIT TRAVEL DISTANCE:

B = 200'-0" S-1 = 200'-0" S-2 = 300'-0"

COMMON PATH OF EGRESS TRAVEL: 75'-0"

MEANS OF EGRESS ILLUMINATION: (1) FOOT CANDLE MIN. AT WALKING SURFACE

ACCESSIBILITY

RENOVATION	-
TYPE	F
B - BUSINESS	
S - STORAGE	
REQUIRED	

PROVIDED

ADDITION TYPE S - STORAGE REQUIRED PROVIDED

TOTAL REQUIRED	64	.59	.59	.70	.224	3
PROVIDED		(1) WC (1) URINAL	(2) WC	4	2	1

N/A - SINGLE STORY

ENVELOPE COMPLIANCE

	_
	UNHEATED
	ALTERATIO
Х	COMcheck
	PRESCRIP
	OTHER, PL

EXISTING BUILDING IS SINGLE STORY. NEW RESTROOMS AND SHOWERS ARE ADA COMPLIANT. SEE ARCHITECTURAL SITE PLAN FOR LOCATIONS OF HANDICAPPED PARKING LOCATIONS

PLUMBING FIXTURE REQUIREMENTS PER 2902.1

NO.	WATE	R CLOSETS		LAVATC	RIES	DRINKING	FOUNTAIN	SERVICE SINK
PEOPLE	FACTORS	# MALE	# FEMALE	FACTORS	# FIXTURES	FACTORS	# FIXTURES	
18	1/25 (FIRST 50) 1/50 (AFTER)	.36	.36	1/40 (FIRST 80) 1/80 (AFTER)	.46	1/100	.18	1
3	1/100	.01	.01	1/100	.02	1/1000	.001	1
21		.37	.37		.48		.181	2
		(1) WC (1) URINAL	(2) WC		4		2	1

NO.	WATE	R CLOSETS		LAVATC	RIES	DRINKING	FOUNTAIN	SERVICE SINK
PEOPLE	FACTORS	# MALE	# FEMALE	FACTORS	# FIXTURES	FACTORS	# FIXTURES	
43	1/100	.215	.215	1/100	.215	1/1000	.043	1
43	1/100	.215	.215	1/100	.215	1/1000	.043	2
		(1) WC (1) URINAL	(2) WC		4		2	1

PLUMBING FIXTURES FOR BUILDING ADDITION ARE PROVIDED WITHIN THE RENOVATION AREA FIXTURE COUNTS

ELEVATORS AND CONVEYING SYSTEMS - CHAPTER 30

ED BUILDING / SEASONAL OCCUPANCY

FION, NO MODIFICATION TO BUILDING ENVELOPE

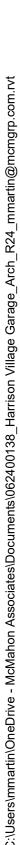
ck/REScheck ATTACHED: IECC 2015 ASHRAE 90.1-2013 × IPTIVE (COMPLETE CHART BELOW): IECC 2015 ASHRAE 90.1-2013 PLEASE DESCRIBE:

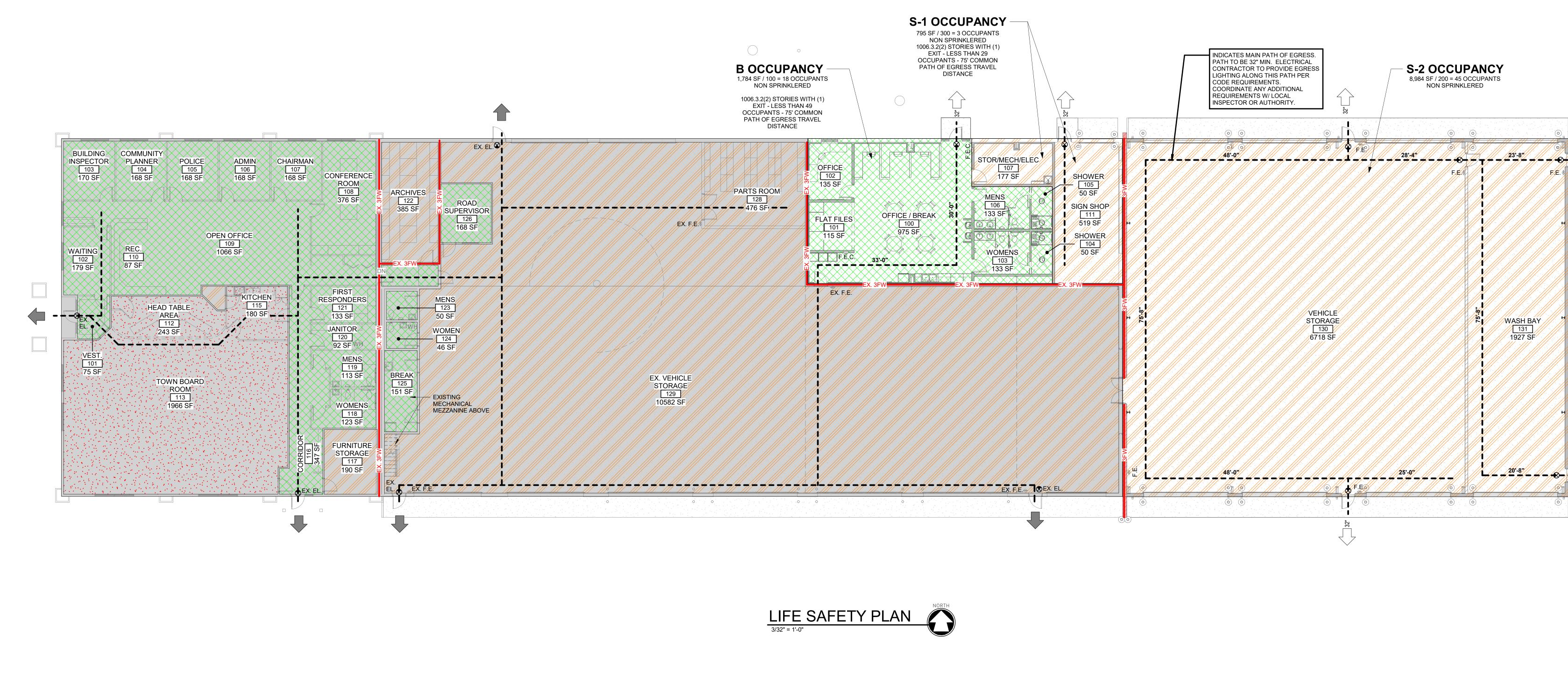
PROJECT LOCATION: COUNTY <u>CALUMET</u>; ZONE: 6A X 7

OCCUPANCY GROUP: R OTHER

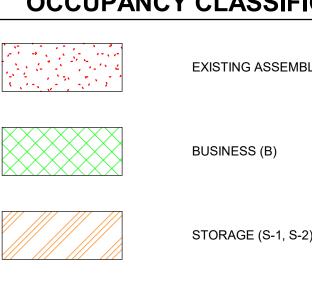
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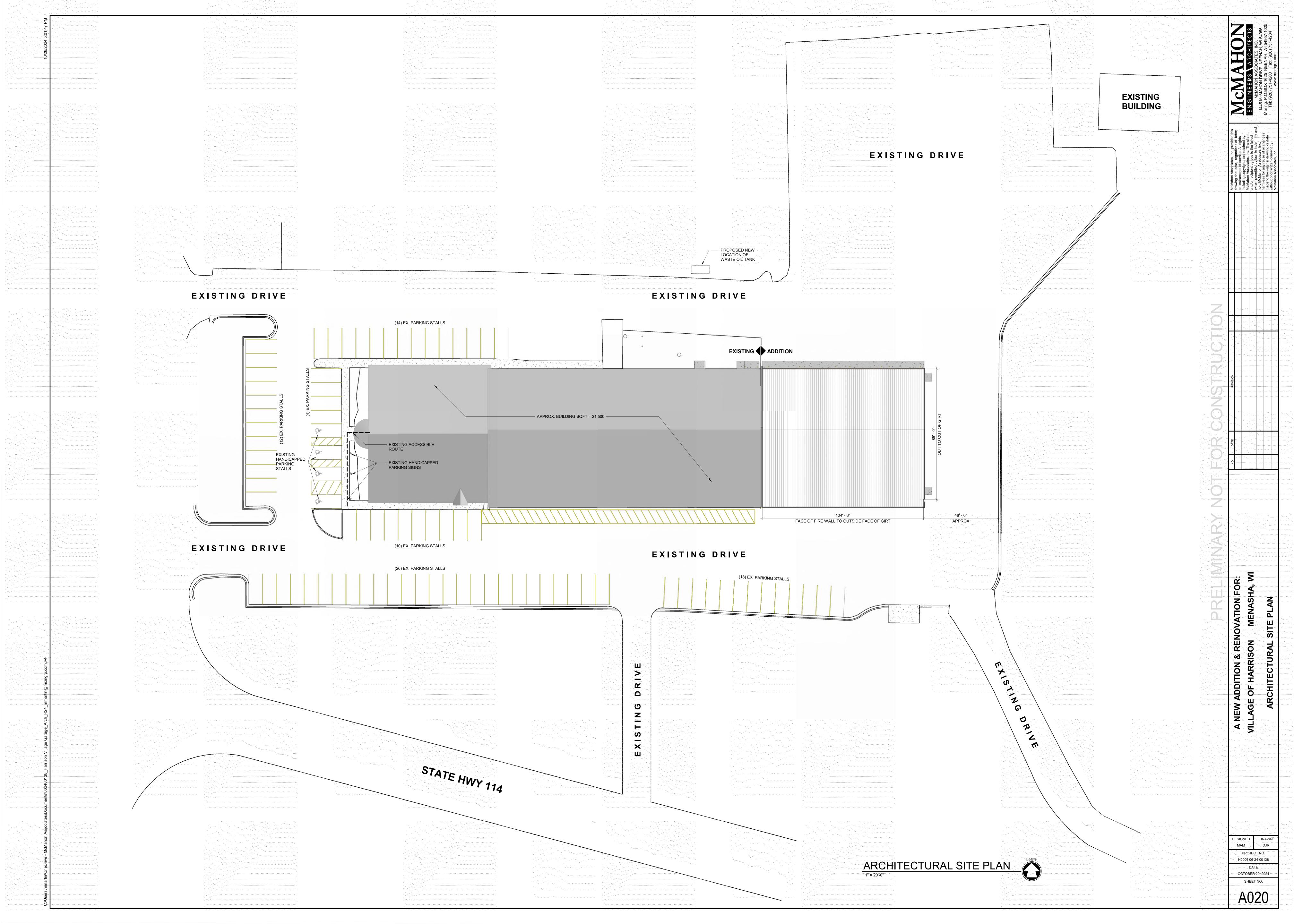
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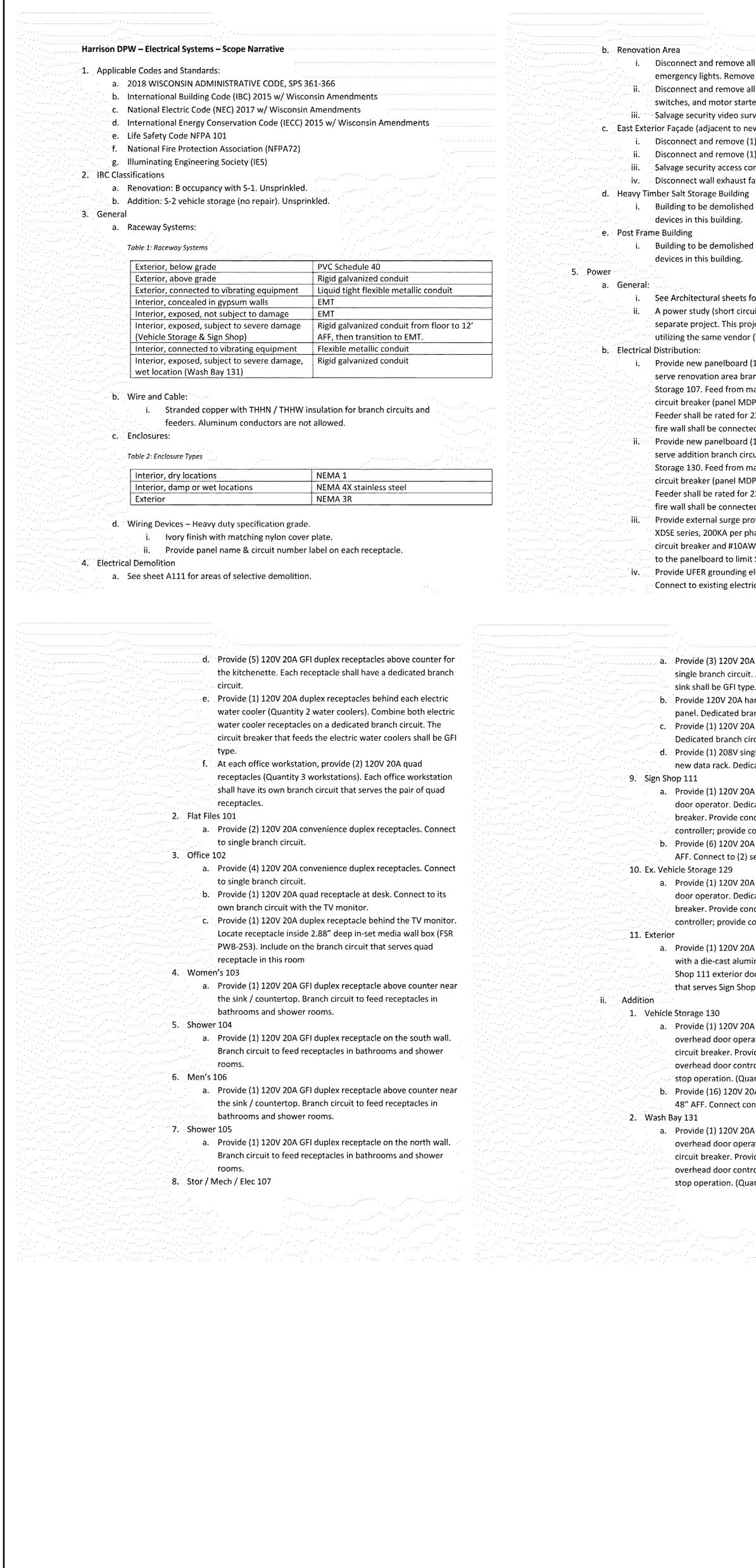




CC	DDE KEY		Z	NC. WI 54056	54957-1025 51-4284
3FW 3FW EX 3 FW EX 3FW F.E.C F.E.C F.E.C	EMERGENCY EXIT PATH OF TRAVEL 3 HOUR FIRE WALL		M	MCMAHON ASSOCIATES, I MCMAHON ASSOCIATES, I 1445 MCMAHON DRIVE NEFNAH	Mailing: P.O.BOX 1025 NEENAH, WI Tel: (920) 751-4200 Fax: (920) 7
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OCCUPANC	Y CLASSIFICATION EXISTING ASSEMBLY (A)	_			
	BUSINESS (B)				
Pat SF / 200 = 45 OCCUPANTS NON SPRINKLERED	STORAGE (S-1, S-2)	R CONSTRUCTION	DATE REVISION REVISION		
		PRELIMINARY NOT FO	NON	VILLAGE OF HAKKISON MENASHA, WI	LIFE SAFETY PLAN
			Н0006 ОСТОЕ	JECT N 06-24-0 DATE 3ER 29, EET NC	0138 2024).







i. Disconnect and remove all light fixtures, lighting controls, exit signs, and emergency lights. Remove associated conduit and conductors. ii. Disconnect and remove all receptacles, motor connections, disconnect

switches, and motor starters. Remove associated conduit and conductors. iii. Salvage security video surveillance camera to Owner. c. East Exterior Façade (adjacent to new addition)

i. Disconnect and remove (1) exterior wall pack.

ii. Disconnect and remove (1) exterior egress light.

iii. Salvage security access control card reader. iv. Disconnect wall exhaust fan. Equipment to be removed by HVAC contractor.

i. Building to be demolished complete. Disconnect and remove all electrical

devices in this building.

i. Building to be demolished complete. Disconnect and remove all electrical devices in this building.

i. See Architectural sheets for proposed renovation and addition floor plans. ii. A power study (short circuit and arc flash) will be conducted as part of a separate project. This project shall include an update to the power studies utilizing the same vendor (TBD) that is used in the separate project.

i. Provide new panelboard (120/208V 3PH 4W, 225 MLO, 84 circuit, 22KAIC) to serve renovation area branch circuits. New panel to be surface mount in Storage 107. Feed from main distribution panel MDP using a spare 225A-3P circuit breaker (panel MDP is being replaced as part of a separate project). Feeder shall be rated for 225A. All new power to the west of the new 3-hour fire wall shall be connected to this panel.

i. Provide new panelboard (120/208V 3PH 4W, 225 MLO, 84 circuit, 22KAIC) to serve addition branch circuits. New panel to be surface mount in Vehicle Storage 130. Feed from main distribution panel MDP using a spare 225A-3P circuit breaker (panel MDP is being replaced as part of a separate project). Feeder shall be rated for 225A. All new power to the east of the new 3-hour fire wall shall be connected to this panel.

1)). Provide external surge protection device at each new panelboard (Square D XDSE series, 200KA per phase, 120/208V 3ph 4w). Feed SPD with 30A-3P circuit breaker and #10AWG at each panelboard. Locate SPD directly adjacent to the panelboard to limit SPD conductors to 36".

iv. Provide UFER grounding electrode connection to addition footing rebar. Connect to existing electrical service grounding electrode system.

a. Provide (3) 120V 20A duplex receptacles at 48" AFF. Connect to single branch circuit. Any receptacle within 6 feet of the mop

sink shall be GFI type. b. Provide 120V 20A hardwired connection for fire alarm NAC.

panel. Dedicated branch circuit.

c. Provide (1) 120V 20A quad receptacle at new data rack.

Dedicated branch circuit.

d. Provide (1) 208V single phase 30A NEMA L6-30R receptacle at new data rack. Dedicated branch circuit.

a. Provide (1) 120V 20A duplex receptacle on ceiling for overhead door operator. Dedicated branch circuit with GFI type circuit breaker. Provide conduit and box for wall-mount overhead door controller; provide conductors for up / down / stop operation. b. Provide (6) 120V 20A GFI convenience duplex receptacles at 48" AFF. Connect to (2) separate branch circuits.

a. Provide (1) 120V 20A duplex receptacle on ceiling for overhead door operator. Dedicated branch circuit with GFI type circuit breaker. Provide conduit and box for wall-mount overhead door - controller; provide conductors for up / down / stop operation.

a. Provide (1) 120V 20A weather-resistant GFI duplex receptacle with a die-cast aluminum weatherproof in-use cover at Sign Shop 111 exterior door. Connect to one of the branch circuits that serves Sign Shop 111 convenience receptacles.

1. Vehicle Storage 130

a. Provide (1) 120V 20A duplex receptacle on ceiling for each overhead door operator. Dedicated branch circuit with GFI type circuit breaker. Provide conduit and box for wall-mount

overhead door controller; provide conductors for up / down / stop operation. (Quantity 6 overhead doors)

b. Provide (16) 120V 20A GFI convenience duplex receptacles at 48" AFF. Connect convenience receptacles to (4) branch circuits.

a. Provide (1) 120V 20A duplex receptacle on ceiling for each overhead door operator. Dedicated branch circuit with GFI type circuit breaker. Provide conduit and box for wall-mount overhead door controller; provide conductors for up / down / stop operation. (Quantity 2 overhead doors)

c. HVAC Coordination:

i. Demolition

- 1. Existing wash bay Disconnect gas fired radiant tube heater. Remove associated disconnect switch and conduit / wiring. Equipment to be
- removed by HVAC contractor. ii. Renovation

1. Existing garage

- a. Oil Pump P-1 i. Provide 120V 20A hardwired connection with Square D series 2510 manual starter / disconnect switch. 2. Renovation Area – See HVAC narrative for locations.
- a. Furnace F-1
 - i. Provide 120V 20A hardwired connection with Square D series 2510 manual starter / disconnect switch. Dedicated branch circuit.
 - b. Condenser CU-1
 - i. Provide 208V 3-phase 30A hardwired connection with 30A fusible switch fused at 30A. Dedicated 30A branch circuit.

c. Exhaust Fan EF-1 (FHP)

- i. Provide 120V 20A hardwired connection with Square D series 2510 manual starter / disconnect switch.
- Dedicated branch circuit.
- ii. Exhaust fan shall be interlocked with occupancy sensor in each bathroom, each shower room, and the sign
- shop. If any of these spaces are occupied, the exhaust
- fan shall turn on and remain on for a time delay of 15 minutes after occupation is no longer detected.
- d. Electric Heater EUH-1 (3.3 KW)
- i. Provide 208V 3-phase 20A hardwired connection with 20A non-fusible NEMA 1 disconnect switch. Dedicated
- 20A branch circuit. 3. Addition - See HVAC narrative for locations.
 - a. Makeup Air Unit MUA-1
 - i. Provide 208V 3-phase 35A hardwired connection with 60A non-fusible NEMA 1 disconnect switch. Dedicated
 - 35A branch circuit. b. Gas Detection System
 - i. Provide conduit and boxes for (3) sensors.
 - ii. Provide 120V 20A hardwired connection for controller. Dedicated branch circuit.
 - c. Exhaust Fan EF-2 (3/4HP)
- - b. Provide (8) 120V 20A convenience weather-resistant GFI duplex receptacle with a die-cast aluminum weatherproof in-use cover.
 - Connect to two separate branch circuits. 3. Exterior
 - a. Provide (1) 120V 20A weather-resistant GFI duplex receptacle with a die-cast aluminum weatherproof in-use cover at each exterior door (Quantity 4 exterior doors). Connect exterior receptacles to one branch circuit.
- 6. Lighting a. General
 - All interior lighting shall be LED with 4000K 80CRI.
 - ii. All exterior lighting shall be LED with 4000K 70CRI, full cut-off type. iii. Areas with ceilings: Lighting controls shall be analog type by Sensor Switch,
 - Wattstopper or Greengate.
 - iv. CAreas with exposed ceilings and exterior wall packs: Lighting controls shall be wireless digital type with sensors that are embedded in fixtures. Basis of design is Nlight Air, or Equivalent systems by Hubbell and Cooper.
 - v. Use IES illuminance recommendations for each space to determine quantity of fixtures and lumen package, unless noted otherwise. Refer to architectural plans for ceiling types, ceiling heights, and exposed structure heights. Assume
 - 80-50-20 reflectances and light loss factor of at least 0.9. vi. Egress path lighting shall meet IBC-2015 requirements. See sheet A012 for
 - egress paths in remodel area and addition. vii. 👋 Wall dimmers and switches shall be ivory with matching nylon cover plates to
 - match wiring devices. viii. Connect unit battery lights to branch circuit that serves nearby normal
 - powered lights ahead of local switches, relays, and contactors. The generator does not have separate life safety distribution and cannot be used for emergency lighting.

b. Specific rooms: i. Renovation

- 1. Office / Break 100
 - a. Provide 2x4 LED flat panels, Lithonia CPX series or equivalent by Hubbell or Cooper.
 - b. Along egress path: Provide integral unit batteries in select general lighting fixtures.
 - c. Provide (1) exit sign, Lithonia LQM series or equivalent by Hubbell or Cooper.
 - d. Provide dual tech ceiling occupancy sensors with (2) 3-way 0-10V dimmer switches (one at each entry door). All lights shall be
- controlled as single zone.

a a substantia. A substantia a subst	i. Provide 120V 20A hardwired connection with Square D	
na se esta de la construir de la construir de la construir de la construir de la construir de	series 2510 manual starter / disconnect switch.	
	Dedicated branch circuit.	
n an		· · · · · · · · · · · · · · · · · · ·
$\mathbf{U}_{\mathbf{r}}$ is a second sec	Exhaust Fan EF-3 (3/4 HP)	
	i. Provide 120V 20A hardwired connection with Square D	
e and a state of the second second A state of the second	series 2510 manual starter / disconnect switch.	
	Dedicated branch circuit.	
e.		
	i. Provide 120V 20A hardwired connection with Square D	en e
	series 2510 manual starter / disconnect switch.	
	Dedicated branch circuit.	anta Aliante de la companya
n film for a stall an en algebra (all sentitive set fa r all). Na anter a great de la completation	Radiant Tube Heater RH-1	
	i. Provide 120V 20A hardwired connection with Square D	an an an an an ann an Arlan. An an Arlan an Arlan an Arlan
	series 2510 manual starter / disconnect switch.	
	Dedicated branch circuit.	
g.	Radiant Tube Heater RH-2	
	i. Provide 120V 20A hardwired connection with Square D	
	series 2510 manual starter / disconnect switch.	
	Dedicated branch circuit.	
h.	Radiant Tube Heater RH-3	
المراجع المراج المراجع المراجع	i. Provide 120V 20A hardwired connection with Square D	
	series 2510 NEMA 4X stainless steel manual starter /	
	disconnect switch. Dedicated branch circuit.	
d. Plumbing Coordination:		
i. Renovation		
	fech / Elec 107	
a.	Water Heater - 120V 20A GFI duplex receptacle at 48" AFF.	an a
	Provide dedicated branch circuit.	
b.	Recirculation Pump – 120V 20A hardwired connection with	
	Square D series 2510 manual starter / disconnect switch.	
	Provide dedicated branch circuit.	
e. Specific rooms:		
i. Renovation		
1. Office /	Break 100	and a second and second the second
a.	Provide (6) 120V 20A convenience duplex receptacles. Connect	
	convenience receptacles to (2) branch circuits.	and a second
jana para katang katang tang tang tang tang tang tang tang	Provide (1) 120V 20A duplex receptacle behind the TV monitor.	en e
	Locate receptacle inside 2.88" deep in-set media wall box (FSR	
en ante a la construction de la con Reference de la construction de la c	PWB-253). Include on one of the branch circuits that serves	
	convenience receptacles in this room.	
с. С.	Provide (1) 120V 20A GFI duplex receptacle behind the	
	refrigerator. Dedicated branch circuit.	

· · · · · · · · · · · · · · · · · · ·		
	e. Provide undercabinet lighting at kitchenette, Juno UPLD WH	
an Arran an Arran Arran an Arran an Arr Arran an Arran an Arr		
	series or equivalent by Hubbell or Cooper.	
	i. (1) 14" fixture and (3) 22" fixtures.	
	ii. Tie into general lighting occupancy sensors for	
	automatic lighting shutoff.	
	iii. Provide ELV wall dimmer switch near kitchenette for	tin taatii atea
	manual control.	an di sant Strang
2. Flat	Files 101	
	a. Provide 2x4 LED flat panels, Lithonia CPX series or equivalent by	e e e e e e e e e e e e e e e e e e e
n en la companya de la companya de La companya de la comp	Hubbell or Cooper.	
	b. Provide dual tech ceiling occupancy sensor with a 0-10V dimmer	
an an an an an ann an Arraighteachan ann an Arraighteachan ann an Arraighteachan ann an Arraighteachan ann an Ann an Arraighteachan ann an Arraighteachan ann ann an Arraighteachan ann an Arraighteachan ann ann an Arraighte Ann an Arraighteachan ann ann ann ann ann ann ann ann ann	switch near the entry.	
3. Off	ce 102	
	a. Provide 2x4 LED flat panels, Lithonia CPX series or equivalent by	
	Hubbell or Cooper.	
	b. Provide dual tech ceiling occupancy sensor with a 0-10V dimmer	
	switch near the entry.	
4. Wo	men's 103	
	a. Provide 2x4 LED flat panels, Lithonia CPX series or equivalent by	a served a
an an an the analysis and a second second A second secon	Hubbell or Cooper. One 2x4 fixture shall be designated	
and a second	emergency with integral unit battery.	
	b. Provide dual tech ceiling occupancy sensor with a keyed switch	
	near the entry.	
5. Sho	wer 104	
	a. Provide (1) shower downlight centered above the shower and	
	(1) shower downlight centered above the changing area,	
	Gotham EVO4SH or equivalent by Hubbell or Cooper.	
	b. Provide dual tech ceiling occupancy sensor (low temperature	
	high humidity) above the changing area. Provide a 0-10V	
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	dimmer switch near the entry along the south wall.	
energia de la construcción de 6. e Me	•	en de la composition de la composition Composition de la composition de la comp
	a. Provide 2x4 LED flat panels, Lithonia CPX series or equivalent by	
en al sector de la construcción de Construcción de la construcción de l	Hubbell or Cooper. One 2x4 fixture shall be designated	
	emergency with integral unit battery.	
	b. Provide dual tech ceiling occupancy sensor with a keyed switch	
	near the entry.	
7. Shc	wer 105	
	a. Provide (1) shower downlight centered above the shower and	· · · · .

(1) shower downlight centered above the changing area, Gotham EVO4SH or equivalent by Hubbell or Cooper.

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8. Stor / Mech / Elec 107 a. Provide 2x4 LED flat panels, Lithonia CPX series or equivalent by

- FEM LED series or equivalent by Hubbell or Cooper. Provide fixtures with integral wireless controls (NLTAIR2 RSBOR10 option for basis-of-design fixture). All fixtures in this space shall be programmed to the same wireless control zone. b. Along egress path: Provide integral unit batteries in select
- general lighting fixtures. c. Provide (1) exit sign, Lithonia LQM series or equivalent by Hubbell or Cooper.
- d. Provide Nlight Air RPODL DX line voltage powered switch near
- 10. Ex. Vehicle Storage 129 No Scope. 11. Exterior

- series with cold weather battery "CW" option. Or equivalent by Hubbell or Cooper. b. Provide (2) outdoor full-cutoff wall packs at 15' AFG, Lithonia WDGE series with Nlight Air embedded sensor. Or equivalent by Hubbell or Cooper. Wireless link all new wall packs to one

ii. Addition

1. Vehicle Storage 130

control zone, including addition.

entry.

a. Provide linear enclosed / gasketed fiberglass fixtures, Lithonia FEM LED series or equivalent by Hubbell or Cooper. Provide fixtures with integral wireless controls (NLTAIR2 RSBOR10 option for basis-of-design fixture). All fixtures in this space shall be programmed to the same wireless control zone. b. Along egress path: Provide integral unit batteries in select

a. Provide (1) outdoor emergency light fixture above each exterior

door at 9' AFG (Quantity 2 exterior doors), Lithonia AFF OEL

b. Provide dual tech ceiling occupancy sensor (low temperature

high humidity) above the changing area. Provide a 0-10V

dimmer switch near the entry along the north wall.

Hubbell or Cooper. One 2x4 fixture shall be designated

emergency with integral unit battery.

- general lighting fixtures. c. Provide (4) exit signs, Lithonia LQM series or equivalent by
- Hubbell or Cooper.

- c. Provide (1) wireless access point data outlet with (2) drops. Coil 20' of extra cable above the ceiling. 2. Flat Files 101 – No scope. 3. Office 102
 - a. Provide (1) data outlet with (2) data drops at desk.
 - b. Provide (1) data outlet with (2) data drops behind the TV monitor. Locate data outlet inside in-set media wall box. c. Provide (1) wireless access point data outlet with (2) drops. Coil 20' of extra cable above the ceiling.
- 4. Women's 103 No scope.
- 5. Shower 104 No scope.
- 6. Shower 105 No scope. 7. Stor / Mech / Elec 107
 - a. Add new data rack: i. Provide 2-post rack, 52RU. Provide rack with vertical cable management.
 - ii. Provide fiber patch panel in existing 2-post data rack. Fiber patch panel shall be OM4 with LC connectors. Add fiber patch panel in new data rack (OM4 with LC
 - connectors). Route OM4 fiber between the existing rack and new rack; fiber shall be routed in conduit. iii. Provide (2) 48-port Category 6 and (1) 24-port Category
 - 6A patch panels in the new rack. iv. Provide (3) 2RU horizontal cable organizers in the new rack.
 - v. Provide (1) rack-mount power strip with integral surge protection and (8) 120V 20A output receptacles.
 - vi. Provide voice / data grounding system:
 - 1. At existing rack: Provide 2" x 12" x ¼" telecommunications ground bus bar near rack. Bond #6AWG from ground bus bar to rack. Bond #6AWG from ground bus bar to structural
 - existing panel MDP ground bus. Bond #3AWG between existing rack ground bus bar and new
 - 2. At new rack: Provide 2" x 12" x ¼"
 - telecommunications ground bus bar near rack.

control. following:

- steel, Bond #3 AWG from ground bus bar to rack ground bus bar.
- Bond #6AWG from ground bus bar to rack. steel.

Bond #6AWG from ground bus bar to structural

7. Fire alarm

a. General

Hi.

b. Specific rooms:

cabling.

addition.

11. Security – Access Control

reader.

d. Provide (3) Nlight Air RPODL DX line voltage powered switch near entries. 2. Wash Bay 131

- a. Provide linear enclosed / gasketed fiberglass fixtures, Lithonia FEM LED series or equivalent by Hubbell or Cooper. Provide fixtures with integral wireless controls (NLTAIR2 RSBOR10 option for basis-of-design fixture). All fixtures in this space shall
- be programmed to the same wireless control zone. b. Along egress path: Provide integral unit batteries in select
- general lighting fixtures. c. Provide (2) wet location exit signs, Lithonia WLTE series or
- equivalent by Hubbell or Cooper.
- d. Provide (3) Nlight Air RPODL DX line voltage powered switch near entries. Provide clear thermoplastic vertical weatherproof in-use cover over each lighting control station.
- 3. Exterior a. Provide (1) outdoor emergency light fixture above each exterior door at 9' AFG (Quantity 4 exterior doors), Lithonia AFF OEL series with cold weather battery "CW" option. Or equivalent by
 - Hubbell or Cooper. b. Provide (6) outdoor full-cutoff wall packs at 15' AFG, Lithonia WDGE series with Nlight Air embedded sensor. Or equivalent by Hubbell or Cooper. Wireless link all new wall packs to one
 - control zone, including alteration area.
- Modify / extend existing DMP XR550 fire alarm system. Notification devices are horn type, not speaker type. Notification devices shall be by Potter and have red housing with FIRE lettering. ii. Use plenum-rated cabling. Cabling may be routed exposed above accessible
- ceilings. Cabling shall be routed in conduit in Sign Shop 111, Vehicle Storage areas, and Wash Bay 131.
- Notification strobe coverage shall meet NFPA 72 requirements. Wall-mount strobes shall be mounted at 80" AFF, unless noted otherwise. iv. Provide updated floor plans and battery calculations for AHJ submittal.

Renovation

1. Office / Break 100 a. Provide (1) fire alarm manual pull station near exterior door. b. Provide (1) 75CD ceiling horn / strobe notification device in center of main space.

- ii. Addition

- 8. Voice Data

- c. Provide (1) 15CD ceiling strobe notification device in center of entry area.
- 2. Flat Files 101 a. Provide (1) 15CD ceiling strobe notification device in center of room.
- 3. Office 102 No scope. 4. Women's 103
- a. Provide (1) 15CD ceiling horn / strobe notification device. 5. Shower 104
- a. Provide (1) 15CD weatherproof wall-mount strobe notification device in changing area along south wall.
- 6. Men's 106
- a. Provide (1) 15CD ceiling horn / strobe notification device. 7. Shower 105
 - a. Provide (1) 15CD weatherproof wall-mount strobe notification device in changing area along north wall.
- 8. Stor / Mech / Elec 107
 - a. Provide (1) 15CD wall-mount strobe notification device near entry. b. Provide NAC panel for remodel and addition notification
 - appliances.
 - c: Provide smoke detector at NAC panel.
- 9. Sign Shop 111
 - a. Provide (1) 75CD wall-mount strobe notification device near entry (b. Provide (1) fire alarm manual pull station near exterior door.
- 10. Ex. Vehicle Storage 129 No scope.
- 1. Vehicle Storage 130
 - a. Provide (1) fire alarm manual pull station near each exterior door (Quantity 2 exterior doors).
 - b. Provide (1) 177 CD wall-mount horn / strobe notification device near each exterior door (Quantity 2 exterior doors). Mount at 96" AFF.
- 2. Wash Bay 131
 - a. Provide (1) fire alarm manual pull station near each exterior door (Quantity 2 exterior doors). Provide flush-mount weatherproof protective shield with horn for each pull station,
 - STI # STI-1150. b. Provide (2) 75 CD wall-mount weatherproof horn / strobe
 - notification device along east wall. Mount at 96" AFF.

- 8. Sign Shop 111 a. Provide (1) wall-phone data outlet with (1) data drop at 48"
 - b. Provide (1) wireless access point data outlet with (2) drops. Coil
- 20' of extra cable near outlet. 9. Ex. Vehicle Storage 129 – No scope.

- 1. Vehicle Storage 130 a. Provide (1) wall-phone data outlet with (1) data drop at 48" b. Provide (2) wireless access point data outlets with (2) drops
- each. Coil 20' of extra cable near each outlet. 2. Wash Bay 131

a. Provide (1) wireless access point data outlet with (2) drops. Provide NEMA 4X enclosure large enough for wireless access point and surface-style outlet.

a. All cameras shall be provided by Owner's security vendor (separate contract direct between Owner and security vendor). E.C. to only provide conduit, boxes and network

b. Provide network cabling and conduit / box infrastructure for (2) exterior cameras for the

a. All access control equipment (card readers, low voltage cabling, and head end equipment) shall be provided by Owner's security vendor (separate contract direct between Owner and security vendor). E.C. to only provide conduit and boxes for access

b. Each new exterior door shall have a wall mount access control on the exterior of the building (Quantity 6 exterior doors). At each access-controlled door, provide the

i. 4"x4" box above the door on the interior side. Locate box above accessible ceiling or at 15' AFF in exposed ceiling areas.

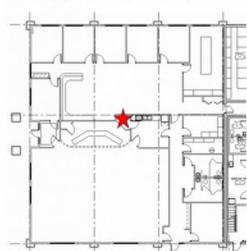
ii. From the 4"x4" box, route 3/4" conduit to single-gang box at 48" for a card iii. From the 4"x4" box, route 1/2" conduit to door frame for electric strike and

door position switch. iv. From the 4"x4" box, route 3/4" conduit to point above accessible ceiling.

a. General

- Each data drop to have dedicated cable run back to new data rack in Stor / Mech / Elec 107.
- ii. Use plenum-rated Category 6 cabling for all data cabling, except use plenumrated Category 6A cabling for wireless access points. Cabling may be routed exposed above accessible ceilings. Cabling shall be routed in conduit in Sign Shop 111, Vehicle Storage areas, and Wash Bay 131. Each wall data outlet box shall be 4" x 4" x 2-1/8" deep with 1" conduit
- stubbed to accessible ceiling.
- iv. Provide end-to-end testing of cables. v. Provide identification at data outlets, patch panels, and cabling per Owner
- standards. vi. Wall data outlet jacks shall be ivory with matching plastic cover plates to
- match wiring devices.
- vii. Wireless access point outlets shall be surface style. viii. Wireless access points, rack-mount UPS, and network switches will be
- provided by the Owner.
- ix. Existing data rack is located per Figure 1 below (denoted with red star). There will be a new rack in the renovation area that will serve the renovation area and addition.

Figure 1: Location of existing data rack



b. Specific rooms: i. Renovation

1. Office / Break 100

- Provide (1) data outlet with (2) data drops behind the TV
- monitor. Locate data outlet inside in-set media wall box. b. At each office workstation, provide (1) data outlet with (4) data
- drops (Quantity 3 workstations).

A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON MENASHA, WI ELECTRICAL NARRATIVE
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A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON MENASHA, WI ELECTRICAL NARRATIVE

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	Space	Su Temp	mmer Relative	Wi	inter Relative	HVAC Design Considerations		per recent cha selection. New	C refrigerants R11, or cooling equipment anges in regulation. v common refrigera
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3.1.4	ba de	ased on co esign.							welding is learne may be needed.
			Pa	ge 5 of 1	3				Page 6 of 13
	HVAC Desi 1. Hei 2. Coo 3. Hui 4. *Do 5. *Co 6. *Ex 7. *Sp 8. *Ci 9. No 10. *Vo 11. Ven * Not all D 3.1.0 3.1.0	Space Name 1 Office Space 2 Bathrooms 3 Sign Shop 4 Drive Thru 3 Sign Shop 4 Drive Thru 3 Sign Shop 4 Drive Thru 5 Drive Thru Wash Bay 5 HVAC Design Consideratt 1. Heating will be pr 2. Cooling will be pr 3. Humidification will 4. * Dehumidification 5. * Corrosion resista 6. * Explosion-proof 7. * Space is rated (C 8. * Chemical XXX, X 9. No chemicals or g 10. * Ventilation will be * Not all Design Consider 3.1.5.1 Si	Table 1 indext space Sume intermediate Name intermediate 2 Bathrooms 75 ± 2 2 Bathrooms 75 ± 2 2 Bathrooms 75 ± 2 3 Sign Shop 75 ± 2 4 Drive Thru - 4 Drive Thru - 5 Drive Thru - 5 Drive Thru - 6 Peating will be provided. - 7 Debumidification will be provided. - 8 * Corrosion resistance will be - 6. * Explosion-proof equipme - 7 * Space is rated (Class X, Di - 8. * Chemical XXX, XX	M22632 Village of Harrison HVAC Design Table 1 index of the second	M22632 Village of Harrison HVAC Design Narrativ Table 1: Indoor Design Marrier Trep Municity Trep Name Total 1: Office Space Total 2: Colspan="2">Office Space Total 2: Colspan="2">Office Space 1: Office Space Total 2: Colspan="2">Office Space 2 Bathrooms Total 2: Colspan="2">Colspan="2">Office Space 2: Colspan="2">Total 2: Colspan="2">Colspan="2">Colspan="2">Total 2: Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Space is Total 1 HVAC Design Considerations for Table 1 1: Meating will be provided. Cooling will be provided. Cooling will be provided. * Cooling will be provided. * Coorosion resistance will be provided. * Space is rated (Class X, Dix W) * Not chemicals or gases will be used or stored in 10. * Not chemicals or gases will be used or stored in 10. * Not all Design Considerations apply, but all have be 3.1.5 Sized for cooling load +0%	M22632 Village of Harrison HVAC Design Narrative Toble 1: Indoor Design Considerations for Table 1: Indoor Design Considerations apply, but all have been consistence will be provided. 10: *Centroical XXX, XXX will be used or stored in the space 1: Not chemical Sort XXX will be used or stored in the space 1: Not chemicals or gases will be used or stored in the space 1: Not chemicals or gases will be used or stored in the space 1: Not call Design Considerations apply, but all have been consistence vill be provided at X ACH. 11: Ventilation will be provided at X ACH. 1: Ventilation will be provided at X ACH. 12: Sizing Criteria for HVAC Equipment 3:1.5: Sizing Criteria for HVAC Equipment 3:1.5: Sized for cooling load +10% 3:1.5: Sized for cooling load +10% 3:1.5: Sized for heating l	<page-header><section-header><list-item></list-item></section-header></page-header>	<page-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></page-header>	M22632 Village of Harrison HVAC Design Narrative October 18, 2024 M22632 Village of Harrison HVAC Constructions Table 1: Indoor Design Conditions State of the state of t

October 18, 2024

ERVIEW	
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ESCRIPTION	
ERIA	
RATIVE	
SPECIFICATIONS (PER PRELIMINARY SELECTION)	10
Equipment	10
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1. PROJECT OVERVIEW

1.1 BACKGROUND

The Town of Harrison is building a new Public Works Addition and Remodel located in Harrison, Wisconsin. CPH's design will be performed to develop a design narrative which will be used to solicit design/build construction bids.

The new addition will be used for parks and streets maintenance vehicle storage and wash bay. The new renovation will be used for additional offices, expanded break room, and new bathroom.

1.2 SCOPE

The project scope of work covered by this design narrative will consist of using all new HVAC/Plumbing equipment. This design basis is based on the relevant Standards and Codes of Practice listed in the specified sections. CPH will ensure that the following objectives are incorporated into the design:

- An economic fit for purpose of design
- Consistency and standardization of design Health, safety, and environmental arrangements

McMahon will be providing the environmental, civil, structural, and architectural design

narratives while CPH will be providing the HVAC, plumbing and electrical design narratives.

1.3 DELIVERABLE 1.3.1 Project Deliverable

- 1.3.1.1 Design Narrative The MEP Contractors shall use this design narrative as a basis of design for gathering a projected project cost. The Contractors are responsible for providing cost estimates to complete the project. The information in the design narrative is preliminary and should not be used as a final design document. Further work shall be done to ensure a complete design if the project moves forward.
- 1.3.1.2 Cost Estimate The MEP Contractors shall create detailed cost estimates for the installation of the systems described within this document. This design narrative only includes estimated equipment costs. It does not include any installation labor cost.

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M22632 Village of Harrison HVAC Design Narrative

No CFC or HCFC refrigerants R11, R12, R404A etc. will be used in air
conditioning or cooling equipment. In addition, R410A shall not be used
per recent changes in regulation. Provide refrigerants per manufacturer
selection. New common refrigerants include 454B and R32.
System

October 18, 2024

- system
- The HVAC control scope will include a Sequence of Operation description for normal operation for the purpose of this design narrative. During final design, coordinating controls with the manufacturer to satisfy the Sequence of Operations and any other conditions will be necessary. The Control Contractor will provide Direct Digital Controller (DDC), remote
- microprocessor control panels, sensors, control devices, software, handheld field programming devices, screened cabling, trucking, and conduit for a fully operational system. The Heating Contractor will coordinate what is needed with the Control Contractor and include their

RATIVE

g Garage Space (Adjacent to Area of Work)

Demolition	
4.1.1.1.1	The existing MUA-X in the existing garage can be demolished due to age and to upgrade the system to meet current code requirements on parking garage ventilation. All associated wiring and accessories can also be demolished with the unit. The existing hood on the roof will remain in place and be reused.
4.1.1.1.2	The existing exhaust fan on the East exterior wall will be demolished. All associated wiring, ductwork, and accessories can be demolished with it.
4.1.1.1.3	The penetrations through the existing fire walls can be reused to pass ductwork through to the North exterior wall where the new exhaust fan will be located.
New Constru	ction
4.1.1.2.1	The owner would like to include a welding fume hood (WFH-1) collection system. At this time, it is believed that the welding will be infrequent and for short durations. Therefore, a mobile fume collector on wheels with an adjustable arm shall be provided in this application. During final design, if the frequency and duration of welding is learned to be more significant, a larger system may be needed.

4.1.1.2.2 A new make-up air unit (MAU-1) will be installed at the location of the demolished unit. Reuse the existing intake hood on the roof if appropriate. Interlock a new exhaust fan (EF-5) with (MAU-1). The system shall be controlled via a gas detection system. See 4.1.4.1.1 for an explanation of the system control per code. 4.1.1.2.3 Install EF-5 on the North exterior wall to the far East of the existing garage space. The ductwork will need to route above the ceiling of the new office renovation, through the existing fire wall, and down to 16 inches above finished floor. 4.1.2 Business: Office Space (Renovation) 4.1.2.1 Demolition 4.1.2.1.1 The existing wash bay space has a waste oil tank (WOT-1) that is being relocated to outside the building as part of this project. 4.1.2.1.2 There are openings in the existing 3-HR fire wall that separates the existing wash bay from the drive thru bays. All the penetrations need to be resealed to the appropriate fire rating if they are not reused in new construction. There is a large transfer opening covered by grilles on both sides. This penetration needs to be filled or reused to maintain the 3-HR fire rating. No air will be transferred between the spaces. The vent pipe from the waste oil heater needs to be resealed with fire rating. The duct at the east end of the wash bay will be demolished.

being demolished. Due to the space's new occupancy, it is no longer needed. Field verify the fan's airflow and relocate it as the fan for the new wash bay if it meets the demand. 4.1.2.1.3 The existing wash bay has a gas fired radiant tube heater (RH-X). The heater and all associated wiring, piping, etc. shall be demolished. 4.1.2.2 New Construction 4.1.2.2.1 A new oil pump (P-1) and piping will be required to provide the oil to the existing waste oil heater (WOH-X) in

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October 18, 2024

2. BUILDING DESCRIPTION

The new Department of Public Works building addition will be used by the Parks Maintenance Department and is a pre-engineered metal building. The addition will be approximately 60' x 150' and consist of three drive thru bays and one drive thru wash bay. The project also includes an office renovation inside the existing wash bay. The 40' x 60' office space will have one office, file room, break area, cubicles, bathrooms with showers, mechanical storage room, and a sign shop.

3. DESIG	IN CRIT	ERIA	
3.1 HVA0	2		
3.1.1	HVACI	Location / Al	titude
	3.1.1.1	Location: Har	rison, WI 54952
	3.1.1.2	Elevation: 95	0 feet above sea level
3.1.2	Buildin	ng R-Values	
	3.1.2.1	Roof R-Value	: 43
	3.1.2.2	Wall R-Value	: 30
3.1.3	Occupa	ancy Schedul	es
	3.1.3.1	B Business: C	office Space (Renovation)
		3.1.3.1.1	8:00 AM - 5:00 PM M-F
		3.1.3.1.2	18 Occupants
	3.1.3.2	S-1 Storage: S	Sign Shop (Renovation)
		3.1.3.2.1	8:00 AM - 5:00 PM M-F
		3.1.3.2.2	3 Occupants
	3.1.3.3	S-2 Storage:	Garage and Wash Bay (Addition)
		3.1.3.3.1	10:00 AM – 3:00 PM M-F
		3.1.3.3.2	45 Occupants
3.1.4	HVACI	Design Outdo	oor Conditions per 2021 ASHRAE (Appleton, WI)
	3.1.4.1	Summer desi	gn dry bulb temperature: 88.3°F
	3.1.4.2	Mean coincid	lent wet bulb temperature: 75.1°F
	3.1.4.3	Winter desig	n dry bulb temperature: -6.0°F

3.1.4.3 Winter design dry bulb temperature: -6.0*F 3.1.4.4 Wind speed/Direction: 24.7 mph / SW

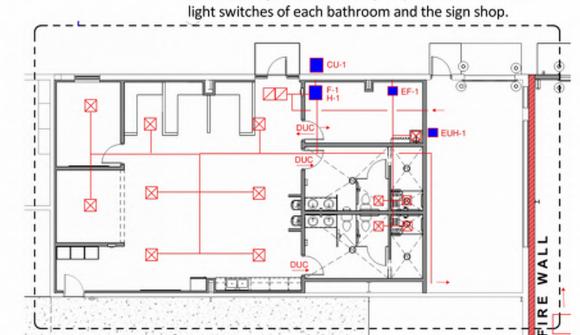
Page 4 of 13

M22632 Village of Harrison HVAC Design Narrative

October 18, 2024

4.1.2.2.2

The office space will be served by a new single natural gas furnace system (F-1) with a cooling only condenser (CU-1) and duct mounted humidifier (H-1). The supply air will be ducted to diffusers to evenly supply the conditioned air to each room based on their calculated cooling load. One return will be in the break room. Each room, excluding the bathrooms, will transfer air into the break room through lined ductwork above the ceiling. Door grilles on the bathrooms will transfer the required make-up air for exhaust. The bathrooms and mechanical room will be exhausted by an exhaust fan (EF-1) interlocked with all



4.1.3 S-1 Storage: Sign Shop (Renovation)

4.1.3.1 New Construction 4.1.3.1.1 The ventilation system in the sign shop will be provided by

F-1. This space meets all the exceptions for natural ventilation of a parking garage per SPS 364. Note, any occupants in the space need a way to manually open the door from the inside. 4.1.3.1.2 The heat in the sign shop will be provided by F-1 and supplemented by a small electric heater (EUH-1) in case the garage door is opened during colder months unexpectedly.

4.1.4 S-2 Storage: Garage and Wash Bay (Addition) 4.1.4.1 New Construction

Page 8 of 13

This penetration needs to be filled to maintain the 3-HR fire rating. The exhaust fan (EF-X) it is connected to is

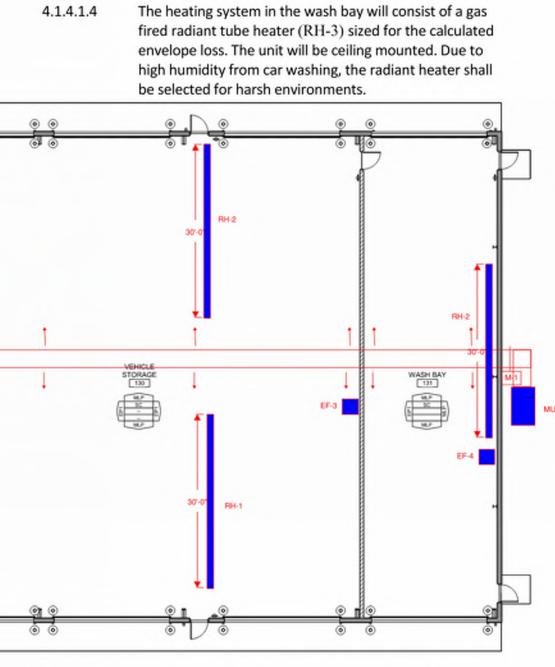
the existing garage from the new tank location.

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M22632 Village of Harrison HVA	C Design Narrative October	18, 2024	M22632 Village of
4.1.4.1.1	The ventilation system in the Garage will consist of outside air ventilation via a direct fired make up a (MUA-2), interlocked damper (M-1) and exhaust f 2), (EF-3), and (EF-4). EF-4 will be an inline fan mo indoors and ducted to a louver (L-1) with a backdr damper. EF-2 and EF-3 will be mounted on the roo backdraft dampers in the curb. Mount MUA-2 on a 6" concrete pad. Per SPS 364.0404, The system is arranged to operate intermittently for a total of a hours in each 24-hour period at a minimum rate of cfm/sf and shall also include the installation of car monoxide and nitrogen dioxide sensors as approp the room or space. The system shall also be desig address the requirements listed in s. SPS 364.0404 (3). The system shall be arranged to operate auto upon detection of carbon monoxide at a level of 3 per million by automatic detection devices. If diesel-fueled vehicles are stored, the system shall arranged to operate automatically upon detection nitrogen dioxide at a level of one part of per millio automatic detection devices. The system shall ma the garage at negative or neutral pressure relative other spaces. The heating system in the garage will consist of gar radiant tube heaters (RH-1) and (RH-2). They sh size for envelope loss and located between the ba addition. supplemental heat will be provided by p	ir unit fans (EF- unted raft of with grade on shall be t least 5 of 0.75 rbon oriate for ned to 4 (2) and matically 35 parts I be n of on by iintain e to as fired all be ays. In	3 HQ R'FIRE WALL
	addition, supplemental heat will be provided by n gas unit heaters. They shall be sized for quick reco when the garage doors are opened. Each unit hea be wall or column mounted. Design for low efficie 80% AFUE unit heaters. Higher efficiency heaters condensate drainage and acid neutralization from flue. Provide sealed combustion units with concer venting through the exterior walls. All the venting	overy ater shall ency, require h the ntric	
4.1.4.1.3	systems shall be terminated in accordance with IF 503.8. The ventilation system in the wash bay will operat part of the MUA-2 system. The fan shall be a wall- mounted upblast exhaust fan mounted high.	GC te as	5. TECHNICAL 5.1 HVAC EQUI Final equipment siz design and will be v 5.1.1 (WFI 5.1.1. 5.1.1. 5.1.1.
	Page 9 of 13		5
 5.1.13 (RH-1) and (RH-2) 5.1.13.1 Equipment C 5.1.13.2 Location: Ind 5.1.13.3 Heating Outp 5.1.13.4 Stages: 2 5.1.13.5 Fuel: Natural 5.1.13.6 Minimum Let 5.1.13.7 Type: Push th 5.1.13.8 Power Require 5.1.14 (RH-3) Radiant Tub 5.1.14.1 Equipment C 5.1.14.2 Location: Ind 5.1.14.3 Heating Outp 5.1.14.3 Heating Outp 5.1.14.4 Stages: 2 5.1.14.5 Fuel: Natural 5.1.14.6 Minimum Let 5.1.14.7 Type: Push th 5.1.14.8 Power Require 	p: .75"w.c. E.S.P. rement: 120 V, 1-phase Radiant Tube Heaters (Addition) ost: \$2,000 (each) oors, ceiling-mounted ut: 70 MBH Gas ngth: 20 Feet rrough, low intensity rement: 120 V, 1-phase De Heater (Addition) ost: \$2,000 oors, ceiling-mounted ut: 60 MBH Gas ngth: 30 Feet rrough, harsh environment rement: 120 V, 1-phase		
 Air Conditioning and Refrig 	al Code (IMC) ociation (NFPA) g Materials (ASTM) s Institute Inc. (ANSI) g Ventilation Air Conditioning Engineers (ASHRAE) eration Institute (ARI) oning Contractor's National Association (SMACNA) e Exposure or Sound Levels Meters		
	Page 13 of 13		

October 18, 2024



L SPECIFICATIONS (PER PRELIMINARY SELECTION) JIPMENT

sizing, selection & location of the HVAC equipment is based on conceptual e validated by CPH during detail design.

- FH-1) Welding Fume Hood (Renovation)
- 1.1 Equipment Cost: \$10,000 1.2 Manufacturer: Donaldson
- 1.3 Model: Porta-Trunk™ Collector
 - Page 10 of 13

- 5.1.2 (MUA-1) Make-Up Air (Renovation) 5.1.2.1 Equipment Cost: \$15,000 5.1.2.2 Location: Indoors, floor mounted Garage on mezzanine. pre-engineered roof if possible. 5.1.2.3 Type: Direct Fired Natural Gas 5.1.2.4 Airflow: 8,000 CFM 5.1.2.5 Heating Output: 850 MBH 5.1.2.6 Gas Input: 850 MBH 5.1.2.7 Power Requirement: 208 V, 3-phase 5.1.3 (MUA-2) Make-Up Air (Addition) 5.1.3.1 Equipment Cost: \$14,000 5.1.3.2 Location: Indoors, wall hung in Garage. Nothing on the preroof if possible. 5.1.3.3 Type: Direct Fired Natural Gas 5.1.3.4 Airflow: 6,500 CFM 5.1.3.5 Heating Output: 680 MBH 5.1.3.6 Gas Input: 680 MBH 5.1.3.7 Power Requirement: 208 V, 3-phase 5.1.4 Intec Gas Detection (Renovation) 5.1.4.1 Equipment Cost: \$3,500 5.1.4.2 Sensor Location Qty: 3 5.1.4.3 Sensor Types: CO and NO2 5.1.4.4 Control Type: Hand, Off, Auto 5.1.5 Intec Gas Detection (Addition) 5.1.5.1 Equipment Cost: \$3,500 5.1.5.2 Sensor Location Qty: 3 5.1.5.3 Sensor Types: CO and NO2 5.1.5.4 Control Type: Hand, Off, Auto 5.1.6 (F-1) Furnace and DX Coil (Renovation) 5.1.6.1 Equipment Cost: \$3,000 5.1.6.2 Location: Indoors, floor mounted in Mechanical Room 5.1.6.3 Type: Direct Fired Natural Gas 5.1.6.4 Airflow: 1,600 CFM 5.1.6.5 Heating Output: 80 MBH 5.1.6.6 Gas Input: 84 MBH 5.1.6.7 Stages: 2 5.1.6.8 Cooling: 4 Tons

 - 5.1.6.9 Cooling: 48 MBH
 - 5.1.6.10 Power Requirement: 120 V, 1-phase 5.1.6.11 Accessory: Duct-mounted humidifier, mixing box

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October 18, 2024	M22632 Villa	age of Harrison HVAC Design Narrative	October 18, 2024
Nothing on the		(CU-1) Condenser (Renovation) 5.1.7.1 Equipment Cost: \$4,000	
		5.1.7.2 Location: Outside, wall-mounted on stainless 5.1.7.3 Type: Cooling Only	s steel brackets
		5.1.7.4 Cooling: 4 Tons	
		5.1.7.5 Cooling: 48 MBH	
		5.1.7.6 Compressor Type: Scroll, 2-Stage	
		5.1.7.7 Power Requirement: 203 V, 3-phase	
	5.1.8	(EUH-1) Electric Unit Heater (Renovation)	
		5.1.8.1 Equipment Cost: \$1,500	
re-engineered		5.1.8.2 Location: Indoors, wall-mounted	
		5.1.8.3 Heating Output: 3.3 kW	
		5.1.8.4 Power Requirement: 208 V, 3-phase	
	5.1.9	(EF-1) Exhaust Fan (Renovation)	
		5.1.9.1 Equipment Cost: \$1,100	
		5.1.9.2 Location: Indoors, ceiling-mounted	
		5.1.9.3 Type: Inline, ECM	
		5.1.9.4 Airflow: 375 CFM	
		5.1.9.5 Pressure Drop: .5"w.c. E.S.P.	
		5.1.9.6 Power Requirement: 120 V, 1-phase	
	5.1.10	(EF-2) and (EF-3) Exhaust Fans (Addition)	
		5.1.10.1 Equipment Cost: \$4,700	
		5.1.10.2 Location: Outdoors, roof-mounted	
		5.1.10.3 Type: Upblast, ECM	
		5.1.10.4 Airflow: 2,550 CFM	
		5.1.10.5 Pressure Drop: .5" w.c. E.S.P.	
		5.1.10.6 Power Requirement: 120 V, 1-phase	
	5.1.11	(EF-4) Exhaust Fan (Addition)	
		5.1.11.1 Equipment Cost: \$1,900	
		5.1.11.2 Location: Outdoors, wall-mounted	
		5.1.11.3 Type: Upblast, ECM	
		5.1.11.4 Airflow: 1,500 CFM	
		5.1.11.5 Pressure Drop: .5" w.c. E.S.P.	
		5.1.11.6 Power Requirement: 120 V, 1-phase	
	5.1.12	(EF-5) Exhaust Fan (Renovation)	
		5.1.12.1 Equipment Cost: \$3,000	
		5.1.12.2 Location: Outdoors, wall-mounted	
		5.1.12.3 Type: upblast, ECM	

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RUCTION CONST F O R NOT PRELIMINARY

TOWN OF HARRISON	
ADDITIONAL BUILDING	1. PROJECT OVERVIEW 1.1 Background
	1.2 Scope 1.3 Deliverable
	2. BUILDING DESCRIPTION 3. DESIGN CRITERIA
PLUMBING BASIS OF DESIGN	3.1 Plumbing
	4.1 Plumbing
	5.1 Plumbing Equipment 5.2 Plumbing Fixtures
PREPARED BY: Douglas De Greef	5.3 Water distribution piping and piping sup
$\sim r^{-1}$	5.4 Water Distribution Pipe Sizes 5.5 Piping Insulation
ேறு	5.6 Plumbing control system 6. BUILDING CODES AND STANDARDS
	0. BUILDING CODES AND STANDARDS
CPH Consulting, LLC - WI 444 Reid Street Suite 103, De Pere, WI 54115	
October 18, 2024	
	Page 2 of 8
M22632 Village of Harrison Plumbing Design Narrative October 18, 2024	M22632 Village of Harrison Plumbing Design Narrative
Point.	5. TECHNICAL SPECIFICATIONS (PER PRELIN 5.1 PLUMBING FOUIPMENT
Storm water Site drained 4. DESIGN NARRATIVE	5.1 PLUMBING EQUIPMENT Final equipment sizing, selection & location of plumbing eq design and shall be validated by the detail design contracto
4.1 PLUMBING	5.1.1 Natural Gas Water Heater
 4.1.1 Cold water supply system 4.1.1.1 New connection at existing valved 1" line in S-1 Storage: Sign Shop (Renovation) The water source is under 80 psi, over 30 psi. 	5.1.1.1 Equipment Cost: \$4,000 5.1.1.2 Water Heater Type : Natural Gas
4.1.1.2 Water softner with 1" bypass for non-softened exterior wall hydrants, hose bibbs, and wash bay area.	5.1.1.3 Tank Volume: 50 Gallons 5.1.1.4 Heating element power: 120 MBH
 4.1.1.3 1" cold water line to be valved at each branch. 4.1.1.3.1 ½" to feed 2 compartment sink and valve box for fridge 	5.1.1.5 Power Requirement: 120 V, 1-phase 5.1.2 Recirculation Pump 5.1.2.1 Equipment Cost: \$700
hookup. 4.1.1.3.2 ¾" to supply Women's Restroom	5.1.2.2 Pump Type: Wet Rotor 5.1.2.3 Flow Rate: 7.5 GPM
4.1.1.3.3 ¾" to supply Men's Restroom 4.1.2 Hot water supply system 4.1.2.1 Gas fired water heater in Store/Mech/Elec room	5.1.2.4 Power Requirement: 120 V, 1-phase 5.1.2.5 Pump Head: 22 ft. H2O
4.1.2.1 Gas fired water heater in Store/Nech/Elec room 4.1.2.2 Hot Water recirculation system 4.1.3 High pressure hot water	5.1.2.6 Power Input: 1/6 HP 5.1.3 Thermal Expansion Tank
4.1.3.1 Existing Landa Pressure washer is atmospheric combustion type. Due to negative space pressure, this needs to be removed and replaced with	5.1.3.1 Equipment Cost: \$250 5.1.3.2 Tank Type: Diaphram
separated combustion in existing location or replacement to be portable unit provided by owner.	5.1.3.3 Minimum Capacity: 2 Gallons 5.1.3.4 Maximum Acceptance: 0.9 Gallons
4.1.4 Sand/Grit and Waste 4.1.4.1 Demolition of existing trench drain and catch basin in existing wash bay.	5.1.4 Water Softener 5.1.4.1 Equipment Cost: \$XXXX 5.1.4.2 Pressure Drop At Design Flowrate: XX
4.1.4.2 New addition Vehicle Storage area to have trench drain that will drain into catch basin in New Wash Bay area.	5.1.4.2 Pressure Drop At Design Flowrate: XX 5.1.4.3 Design Water Flow Rate: XXX GPM 5.1.5 Oil Separator
 4.1.4.3 New Wash Bay area to have trench drains to flow into catch basin, to Oil Interceptor, to existing grey water holding tank 4.1.5 Sanitary drainage system 	5.1.5.1 Equipment Cost: \$7,300 5.1.5.2 Polyethylene, 2,000 sqft coverage are
4.1.5 Sanitary drainage system 4.1.5.1 New sanitary piping 4.1.5.1.1 New office/breakroom/restroom area, to tie-in existing 4"	load capacity of 16,000 LBS 5.1.6 Sanitary Lift Station
4.1.5.1.1 New office/breakroom/restroom area, to tie-in existing 4 sanitary line for existing sewer holding tank. If limited by invert of existing holding tank inlet, route to new holding	5.1.6.1 Equipment Cost: \$15,000 5.1.6.2 36"x18" Fiberglass Basin, 200-230 V, 2 5.1.7 Grey water lift Station
tank provided by civil. 4.1.5.1.2 Sanitary waste from Oil Interceptor in New Wash Bay area	5.1.7 Grey water lift Station 5.1.7.1 Equipment Cost: \$15,000 5.1.7.2 36"x18" Fiberglass Basin, 200-230 V, 2
to leave building to existing grey water holding tank. If limited by invert of existing holding tank inlet, rout to new	5.2.1 Water Closets
holding tank provided by civil.	5.2.1.1 Kohler floor mounted tank type, vitre closing open front seat
4.1.6 Storm sewer system	5.2.2 Urinal
 4.1.6 Storm sewer system 4.1.6.1 Storm water for the building will be conveyed by the down spouts provided by the architect 	5.2.2.1 Kohler wall mounted, top spud, hard
4.1.6.1 Storm water for the building will be conveyed by the down spouts	5.2.2.1 Kohler wall mounted, top spud, hard valve 5.2.3 Lavatories

~

f Harrison Plumbing Design Narrative

October 18, 2024

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M22632 Village of Harrison Plumbing Design Narrative

1. PROJECT OVERVIEW

1.1 BACKGROUND

The Town of Harrison is building a new Public Works Addition and Remodel located in Harrison, Wisconsin. CPH's design will be performed to develop a design narrative which will be used to solicit design/build construction bids.

The new addition will be used for parks and streets maintenance vehicle storage and wash bay. The new renovation will be used for additional offices, expanded break room, and new bathroom.

1.2 SCOPE

The project scope of work covered by this design narrative will consist of using all new HVAC/Plumbing equipment. This design basis is based on the relevant Standards and Codes of Practice listed in the specified sections. CPH will ensure that the following objectives are incorporated into the design:

- An economic fit for purpose of design
- Consistency and standardization of design
- Health, safety, and environmental arrangements

M22632 Village of Harrison Plumbing Design Narrative

McMahon will be providing the environmental, civil, structural, and architectural design narratives while CPH will be providing the HVAC, plumbing and electrical design narratives.

1.3	DELIV	ERABLE	
	1.3.1	Project	Deliverable
		1.3.1.1	Design Narrative – The MEP Contractors shall use this of basis of design for gathering a projected project cost. T responsible for providing cost estimates to complete the information in the design narrative is preliminary and s as a final design document. Further work shall be done complete design if the project moves forward.
		1.3.1.2	Cost Estimate – The MEP Contractors shall create detai for the installation of the systems described within this design narrative only includes estimated equipment co include any installation labor cost.
		1.3.1.3	Currently Unknown – any items in blue text do not sign budget cost, but will be required for the design stage.

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October 18, 2024

L SPECIFICATIONS (PER PRELIMINARY SELECTION)

	PECIFICATIONS (PER PRELIMINART SELECTION)			5.2.3.1	Drop-in vitreous china with grid strainer and hard-wired sen
EC	QUIPMENT				faucet, point of use mixing valve set to 105°F
ing	, selection & location of plumbing equipment is based on conceptual		5.2.4	Sink	
val	idated by the detail design contractor during detail engineering.			5.2.4.1	Drop-in double basin, 18 gauge stainless steel with manual s down faucet with garbage disposal
ral	Gas Water Heater		5.2.5	Drinki	ng Fountain
1	Equipment Cost: \$4,000			5.2.5.1	Wall mounted, electric cooled, filtered, bi-level with hands f
	Water Heater Type : Natural Gas				and protective shroud
	Tank Volume: 50 Gallons		5.2.6	Mop B	asin
4	Heating element power: 120 MBH			5.2.6.1	24"x24"x12" basin with stainless steel cap, 8" centers chrom
	Power Requirement: 120 V, 1-phase				faucet with vacuum breaker and pail hook, Watts LF8A hose
	lation Pump				vacuum breaker, 30" hose & bracket, stainless steel splash c
1	Equipment Cost: \$700				(two sides)
2	Pump Type: Wet Rotor		5.2.7	Wall H	ydrants
3	Flow Rate: 7.5 GPM			5.2.7.1	Freezeless ¾" anti-siphon type, chrome finish, with metal ha
4	Power Requirement: 120 V, 1-phase				34HF vacuum breaker
5	Pump Head: 22 ft. H2O		5.2.8	Hose B	
6	Power Input: 1/6 HP			5.2.8.1	3/4" anti-siphon type, chrome finish, with metal handle & Nid
ma	al Expansion Tank				vacuum breaker
1	Equipment Cost: \$250		5.2.9		ency Eyewash
2	Tank Type: Diaphram				Eye-face wash, stainless steel bowl, hand/foot operated ped
3	Minimum Capacity: 2 Gallons		5.2.10	Floor I	
4	Maximum Acceptance: 0.9 Gallons				L Cast iron body, light duty for restrooms and mechanical room
er S	Softener				2 Cast iron body, Heavy Duty for vehicle storage area and was
1	Equipment Cost: \$XXXX		5.2.11		Clean Out
2	Pressure Drop At Design Flowrate: XXX psi				L Cast iron body, light duty for office/breakroom/restroom/sig
3	Design Water Flow Rate: XXX GPM	5.3	WATE	R DIST	RIBUTION PIPING AND PIPING SUPPORTS
epa	arator		5.3.1	Water	distribution piping (including valves):
1	Equipment Cost: \$7,300			5.3.1.1	Materials: copper type L
2	Polyethylene, 2,000 sqft coverage area, below grade, adjustable riser, max			5.3.1.2	Conforming to all applicable ASTM standards.
	load capacity of 16,000 LBS		5.3.2	-	ipports:
tar	y Lift Station				Materials: Galvanized steel
1	Equipment Cost: \$15,000				Must be BPE-2002 standard-compliant.
	36"x18" Fiberglass Basin, 200-230 V, 2HP Duplex grinder with control panel		5.3.3		passing through building: fire/smoke walls, floors, e
	ater lift Station			5.3.3.1	Shall have the required rated fire/smoke stop installed, the
	Equipment Cost: \$15,000				as stated on the building architectural drawings.
2	36"x18" Fiberglass Basin, 200-230 V, 2HP Duplex grinder with control panel		5.3.4	-	mbing piping shall not cross less than 6' 6" feet above
FL	XTURES			instru	mentation cubicles per NEC 110.26.
er (Closets			-	
1	Kohler floor mounted tank type, vitreous china, elongated bowl with soft	5.4			RIBUTION PIPE SIZES
	closing open front seat		5.4.1	Cold W	/ater Pipe Sizing
al					
1	Kohler wall mounted, top spud, hard wired sensor operated 0.5gpf flush				
	valve				

Page 7 of 8

October 18, 2024

design narrative as a The Contractors are the project. The should not be used e to ensure a

ailed cost estimates is document. This osts. It does not

gnificantly impact the

M22632 Village of Harrison Plumbing Design Narrative

2. BUILDING DESCRIPTION

The new Department of Public Works building addition will be used by the Parks Maintenance Department and is a pre-engineered metal building. The addition will be approximately 60' x 150' and consist of three drive thru bays and one drive thru wash bay. The project also includes an office renovation inside the existing wash bay. The 40' x 60' office space will have one office, file room, break area, cubicles, bathrooms with showers, mechanical storage room, and a sign shop.

3. DESIGN CRITERIA

- 3.1 PLUMBING 3.1.1 Design Conditions
 - 3.1.1.1 Address: Harrison, WI 54952
 - 3.1.1.2 Frost depth: 4 ft 3.1.1.3 Building use: Washdown Areas, Vehicle Storage, Office/Break Room, Restroom
 - 3.1.1.4 Systems in scope: Domestic water distribution, Sanitary drainage,
 - Protected water, Compressed air 3.1.1.5 Hazardous chemicals present: Owner to provide MSDS
 - 3.1.1.6 Existing asbestos: Owner to test for presence.
 - 3.1.1.7 Domestic water to connect into existing valved 1" domestic water line in new Sign Shop.
 - 3.1.1.8 Storm to be site drained.
 - 3.1.1.9 The following information shall be gathered for final design. This design narrative uses assumptions for the following data. 3.1.1.10 Sanitary from new addition of Vehicle Storage and Wash Bay will have
 - enough invert to reach existing grey water holding tank. 3.1.1.11 Sanitary from New Office/Breakroom/Restroom/Mechanical area to have enough invert to reach existing sanitary sewer holding tank.
 - 3.1.2 Plumbing Utilities
 - 3.1.2.1 Supply water hardness:
 - Verify water hardness and if softener is needed for new
 - office/breakroom/restroom area. 3.1.2.2 Sanitary sewer material, diameter: 4" Sch 40
 - New office/breakroom/restroom/mech to connect into existing black water holding tank.
 - New vehicle storage and wash bay area to connect into existing grey water holding tank.
 - 3.1.2.3 Domestic water pressure
 - 3.1.2.3.1 XXX psi at existing 1" valved tie-in point located in New Sign shop.
 - 3.1.2.4 Existing sewer invert elevation or existing sewer pipe size and elevation at connection:
 - XX ft (source), Existing 4" pipe size and elevation at Tie-in Point. XX ft (source), Existing grey water, 4" pipe size and elevation at Tie-in

October 18, 2024

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5.2.3.1 Drop-in vitreous china with grid strainer and hard-wired sensor operated

al single lever pull

s free bottle filler

ome two handle ose connection catcher panels

l handle & Nidel

Nidel 34HF

pedestal Mount

rooms wash bay

n/sign shop area

s, etc., he rating shall be

ove electrical or

- 5.4.1.1 All cold-water distribution piping has been sized using the uniform pressure loss per lineal foot of pipe method from Wisconsin DSPS plumbing code. The preliminary design conditions yield an available uniform pressure loss of A = XX psi per 100 feet of pipe. Cold water pipe velocity is limited to 8 ft/sec per Wisconsin DSPS code OR pipe material manufacturer recommendation. 5.4.1.2 Mop Basin in Storage/Mechanical/Electrical Room was used as the
- controlling fixture. 5.4.2 Hot Water Pipe Sizing
 - 5.4.2.1 All hot water distribution piping has been sized to the same standard as mentioned in section 9.1, with the added stipulation that the water velocity be limited to 8 ft/sec per pipe material manufacturer recommendation.
- 5.5 PIPING INSULATION
- Insulation shall be applied for the following purposes,

M22632 Village of Harrison Plumbing Design Narrative

- 5.5.1 Conservation of Energy 5.5.2 Personnel Protection
- 5.5.3 Acoustic Protection
- 5.5.4 Pipe corrosion Protection
- 5.5.5 Pipe freeze Protection

Fiberglass pipe insulation with PVC jacketing will be provided on all indoor hot water, hot water

return piping. In conditioned building spaces, hot water, hot water return pipe insulation will be closed cell

polyethylene. Fiberglass, Polyisocyanurate pipe insulation with aluminum jacketing will be provided on all non-conditioned or outdoor hot water, hot water return piping.

5.6 PLUMBING CONTROL SYSTEM

Hot water return circuits will be controlled with Caleffi Quicksetter+ flow control valves

6. BUILDING CODES AND STANDARDS

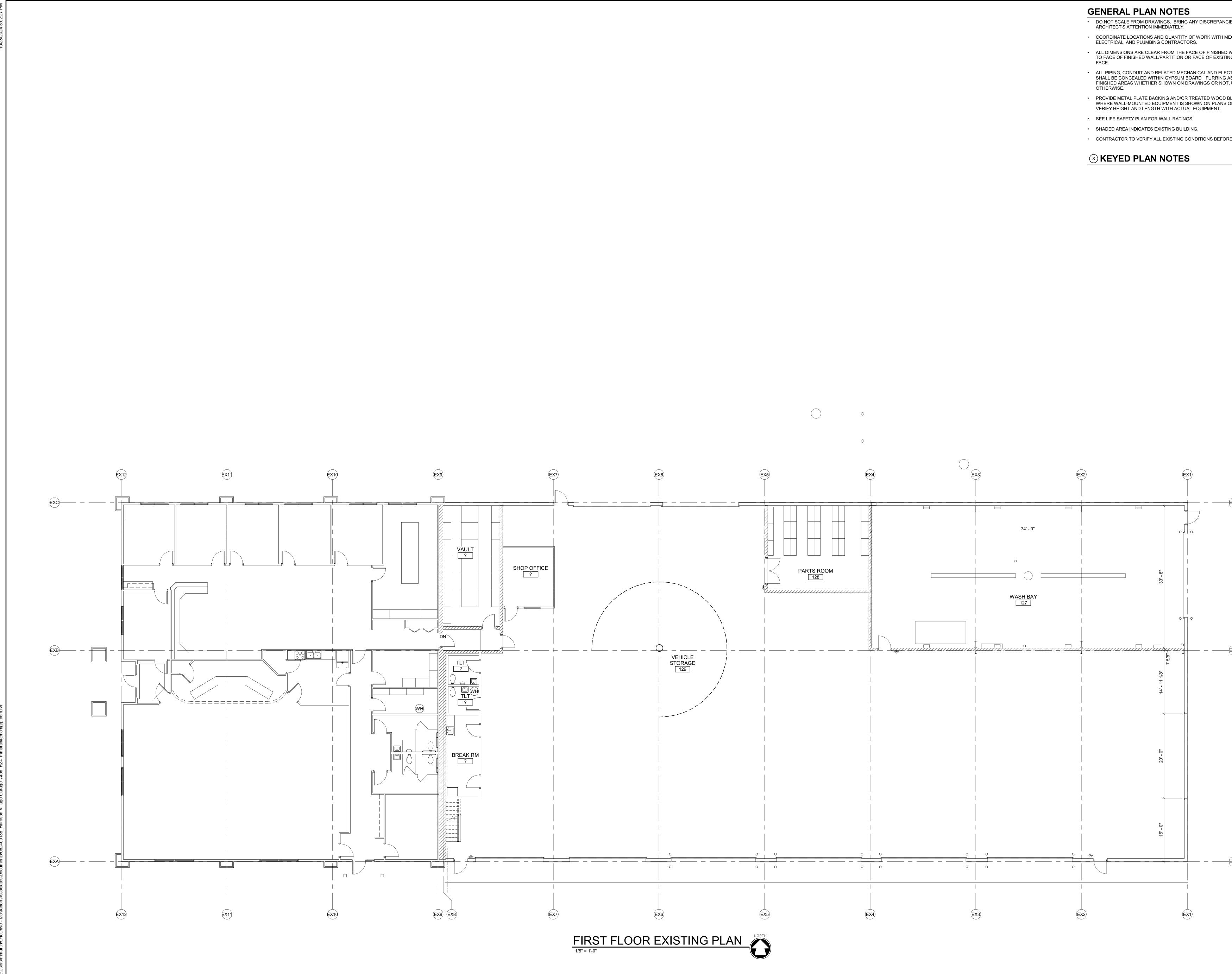
- 2015 International Mechanical Code (IMC)
- National Fire Protection Association (NFPA)
- American Society for Testing Materials (ASTM) American National Standards Institute Inc. (ANSI)
- American Society of Heating Ventilation Air Conditioning Engineers (ASHRAE)
- Air Conditioning and Refrigeration Institute (ARI)
- Sheet Metal and Air Conditioning Contractor's National Association (SMACNA)
- OSHA Occupational Noise Exposure ANSI S1.4 – Specification for Sound Levels Meters
- Wisconsin Plumbing Code SPS 381 -387
- Wisconsin Building Code

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October 18, 2024

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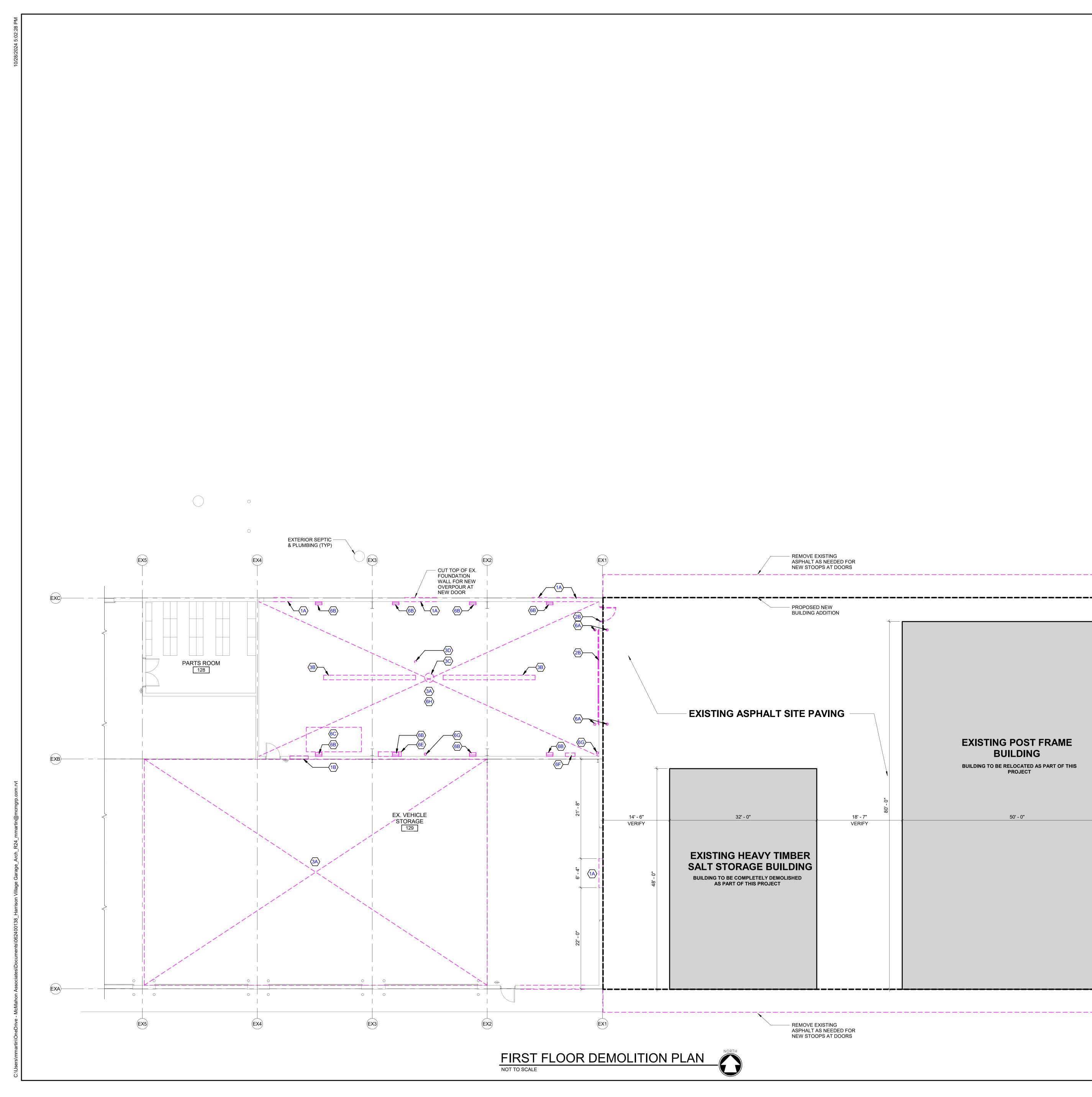
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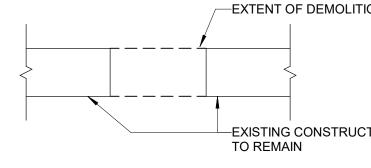
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GENERAL DEMOLITION NOTES

- PLANS, FIELD NOTES AND MEASUREMENTS. EXISTING CONDITIO DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTORS AND DISCREPANCIES REPORTED TO THE ARCHITECT.
- DASHED LINES INDICATE EXISTING WALLS, DOORS, WINDOWS, C FIXTURES TO BE REMOVED.
- EXISTING WALLS, PARTITIONS, FLOOR LINES, DOORS AND FRAME REMAIN ARE SHOWN IN CONTINUOUS LINE WEIGHT. THESE AND I FLOOR AND WALL FINISHES THAT ARE SCHEDULED TO REMAIN S PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRU
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- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL ON ALL DOO HARDWARE, FIXTURES AND EQUIPMENT BEING REMOVED DURIN DEMOLITION. COORDINATE WITH OWNER ALL EQUIPMENT TO BE AND/OR REUSED ON THE PROJECT.
- EXISTING FINISHES TO BE REMOVED SHALL HAVE THE ORIGINAL PREPARED TO RECEIVE NEW FINISHES.
- MAINTAIN AND PROTECT EXISTING UTILITY SERVICES TO REMAIN BE OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.
- ALL FIELD VERIFICATION FOR PLUMBING, MECHANICAL & ELECTF DEMOLITION IS THE CONTRACTOR'S RESPONSIBILITY.
- SCOPE OF DEMOLITION AND REMOVAL WORK SHALL NOT BE LIM DRAWINGS BUT SHALL INCLUDE ANY AND ALL WORK NECESSARY
- FACILITATE NEW CONSTRUCTION. CONTRACTOR TO PROTECT AREAS ADJACENT TO DEMOLITION D CONSTRUCTION.
- PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND AREAS AT ALL TIMES. SEE SPECIFICATIONS FOR ADDITIONAL INFO
- DEMOLITION WORK PERFORMED THAT IS NOT REQUIRED FOR NE CONSTRUCTION IS TO BE REPLACED AT NO CHARGE TO THE OW
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- ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH OWNER. CONTRACTOR TO COORDINATE DEMOLITION WORK WITH NEW C
- AS SHOWN ON DRAWINGS. REPORT ANY CONFLICTS TO THE ARC BEFORE DEMOLITION WORK BEGINS.
- SEQUENCE OF DEMOLITION WORK TO BE COORDINATED WITH N CONSTRUCTION.
- SEE OTHER DISCIPLINES' DRAWINGS FOR EXTENT OF ITEMS TO E AND SALVAGED FOR RE-USE.
- REFER TO SPECIFICATIONS SECTION 01 70 00 "CUTTING AND PAT SECTION FOR WORK REQUIRED BY ALL TRADES WHETHER INDIC DRAWINGS OR NOT.

GENERAL DEMOLITION LEGEND

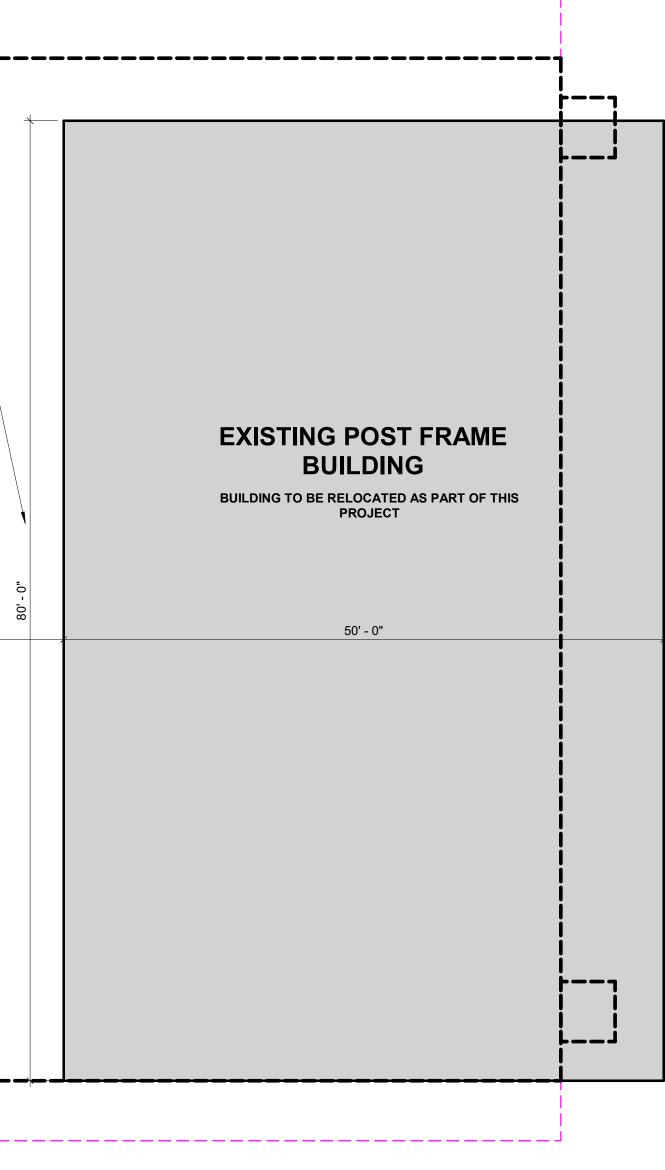


KEYED DEMOLITION NOTES

- 3A SITE CLEAR EXISTING CONC. FLOOR OR RESURFACE (3,000 S
- SITE CLEAR EXISTING TRENCH DRAIN. PATCH AND PREP SURF 3B REQUIRED FOR NEW WORK.
- SITE CLEAR EXISTING CATCH BASIN. PATCH AND PREP SURF 3C
- REQUIRED FOR NEW WORK. SITE CLEAR EXISTING CLEANOUT. PATCH AND PREP SURFACE 3D

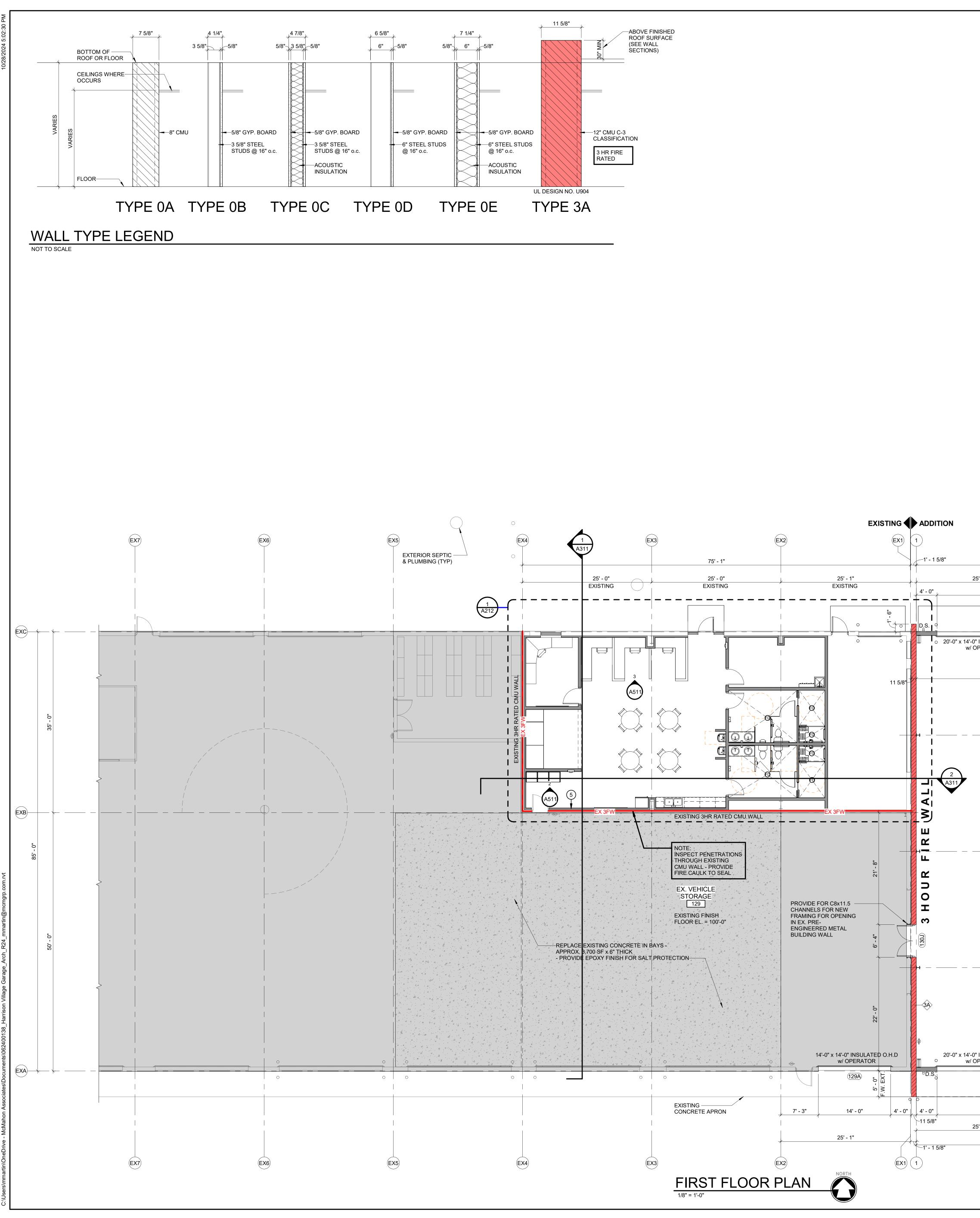
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- 6A SITE CLEAR EXISTING PIPE BOLLARDS, PATCH AND PREP SUR REQUIRED FOR NEW WORK.
- SITE CLEAR EXISTING WALL PACK LIGHT, PATCH AND PREP SI 6B REQUIRED FOR NEW WORK.
- REMOVE EXISTING FUEL TANK AND STORE FOR REINSTALLAT 6C REMOVE EXISTING WASH STATION EQUIPMENT AND TURN OV 6E
- OWNER. SITE CLEAR EXISTING DUCT, PATCH AND PREP SURFACES AS 6F
- FOR NEW WORK. SITE CLEAR EXISTING PIPE PENETRATING THROUGH CONC. 6G
- AND PREP SURFACES AS REQUIRED FOR NEW WORK.
- REMOVE REMAINING FURNITURE, FIXTURES, AND EQUIPMENT 6H TO OWNER.



GENERAL DEMOLITION NOTES		
EXISTING BUILDING HAS BEEN SHOWN ACCORDING TO ORIGINAL BUILDING PLANS, FIELD NOTES AND MEASUREMENTS. EXISTING CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTORS AND DISCREPANCIES REPORTED TO THE ARCHITECT.		
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EXISTING WALLS, PARTITIONS, FLOOR LINES, DOORS AND FRAMES THAT REMAIN ARE SHOWN IN CONTINUOUS LINE WEIGHT. THESE AND EXISTING FLOOR AND WALL FINISHES THAT ARE SCHEDULED TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.		MA
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KEYED PLAN NOTES

1 6" DIA. PREFINISHED METAL BOLLARD w/ CONCRETE INFILL. (PAINT) (TYP.) 5 INFILL EXISTING LOUVER OPENING IN WALL. PROVIDE CMU TO MATCH EXISTING RATING.

GENERAL PLAN NOTES

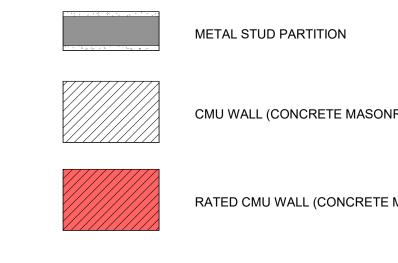
- DO NOT SCALE FROM DRAWINGS. BRING ANY DISCREP ARCHITECT'S ATTENTION IMMEDIATELY.
- COORDINATE LOCATIONS AND QUANTITY OF WORK WI ELECTRICAL, AND PLUMBING CONTRACTORS.
- ALL DIMENSIONS ARE CLEAR FROM THE FACE OF FINIS TO FACE OF FINISHED WALL/PARTITION OR FACE OF E FACE.
- ALL PIPING, CONDUIT AND RELATED MECHANICAL AND SHALL BE CONCEALED WITHIN GYPSUM BOARD FURR FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR OTHERWISE.
- PROVIDE METAL PLATE BACKING AND/OR TREATED WC WHERE WALL-MOUNTED EQUIPMENT IS SHOWN ON PL VERIFY HEIGHT AND LENGTH WITH ACTUAL EQUIPMEN
- SEE LIFE SAFETY PLAN FOR WALL RATINGS.
- SHADED AREA INDICATES EXISTING BUILDING. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS B

GENERAL WALL NOTES

- SEAL ALL INTERIOR WALL PARTITION INTERSECTIONS CEILINGS/STRUCTURE, AND OTHER WALLS WITH ACOU PENETRATIONS IN HORIZONTAL FIRE-RESISTANCE-RAT FIRE-RESISTANCE-RATED WALL ASSEMBLIES SHALL CO
- SECTION 714. JOINTS AND PENETRATIONS INSTALLED IN OR BETWEE RATED WALLS, FLOOR OR FLOOR/CEILING ASSEMBLIE ROOF/CEILING ASSEMBLIES SHALL BE PROTECTED BY RESISTANT JOINT SYSTEM DESIGNED TO RESIST THE I TIME PERIOD NOT LESS THAN THE REQUIRED FIRE-RE THE WALL, FLOOR OR ROOF IN OR BETWEEN WHICH IT RESISTANT JOINT SYSTEMS SHALL COMPLY WITH IBC S
- PROVIDE TILE BACKER BOARD AT AREAS SCHEDULED TILE AND AT AREAS REQUIRED NOTED TO RECEIVE IT
- PROVIDE 5/8" TYPE "X" GYP BD
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACH WALL HUNG ITEMS OR EQUIPMENT.
- BULLNOSE ALL INTERIOR CMU WALLS AT OUTSIDE COI

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INTERIOR WALL PLAN KEY

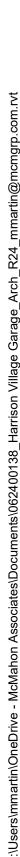


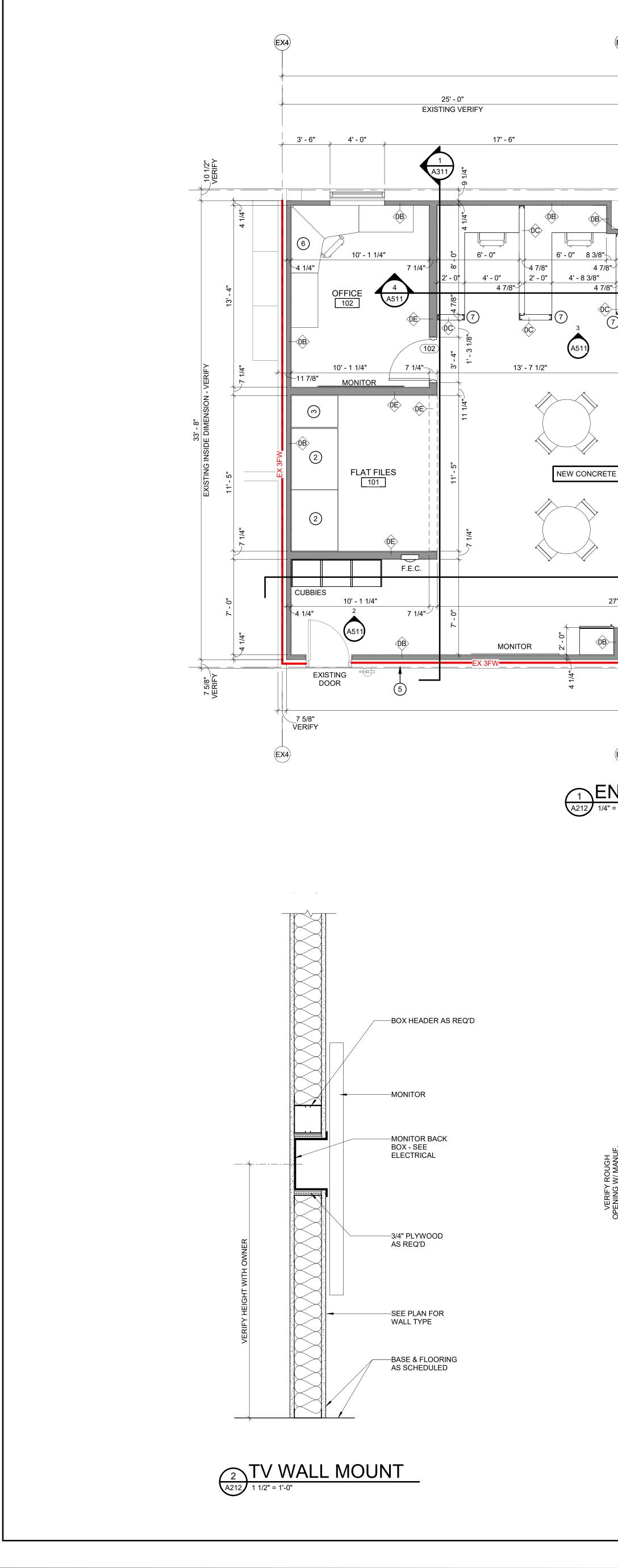
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20' - 0"		<i>.</i>	20' - 0"	2'	- 6", 3' - 4",	·		20' - 0"			- 7	5/8"	20' - 0"		
1	'-0"	_2' - 6"			1' - 0"	-2' -	- 8"		3' -	0"6'		1' - 4 3/8"			_2' - 6"
									- 4"						
(130A)		9 1	(130B)	ρ 	D.S _B	9		(130D)	3.	р 		<u> </u>	(131B)		PB D .S
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(1 TY)/ P.								3' - 4"		(131A	$\overline{)}$			131C
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			RUCTION.	-	McMahon Associates, Inc. provides this	arawing and data, regardless of form, as instruments of service. All rights	including copyrights are retained by McMahon Associates. Inc. The client	and/or recipient agrees to the fullest extent nermitted by law to indemnify and	hold McMahon Associates, Inc.	made to the original drawing or data without prior written consent by	ווונכון כסווסכווי הא
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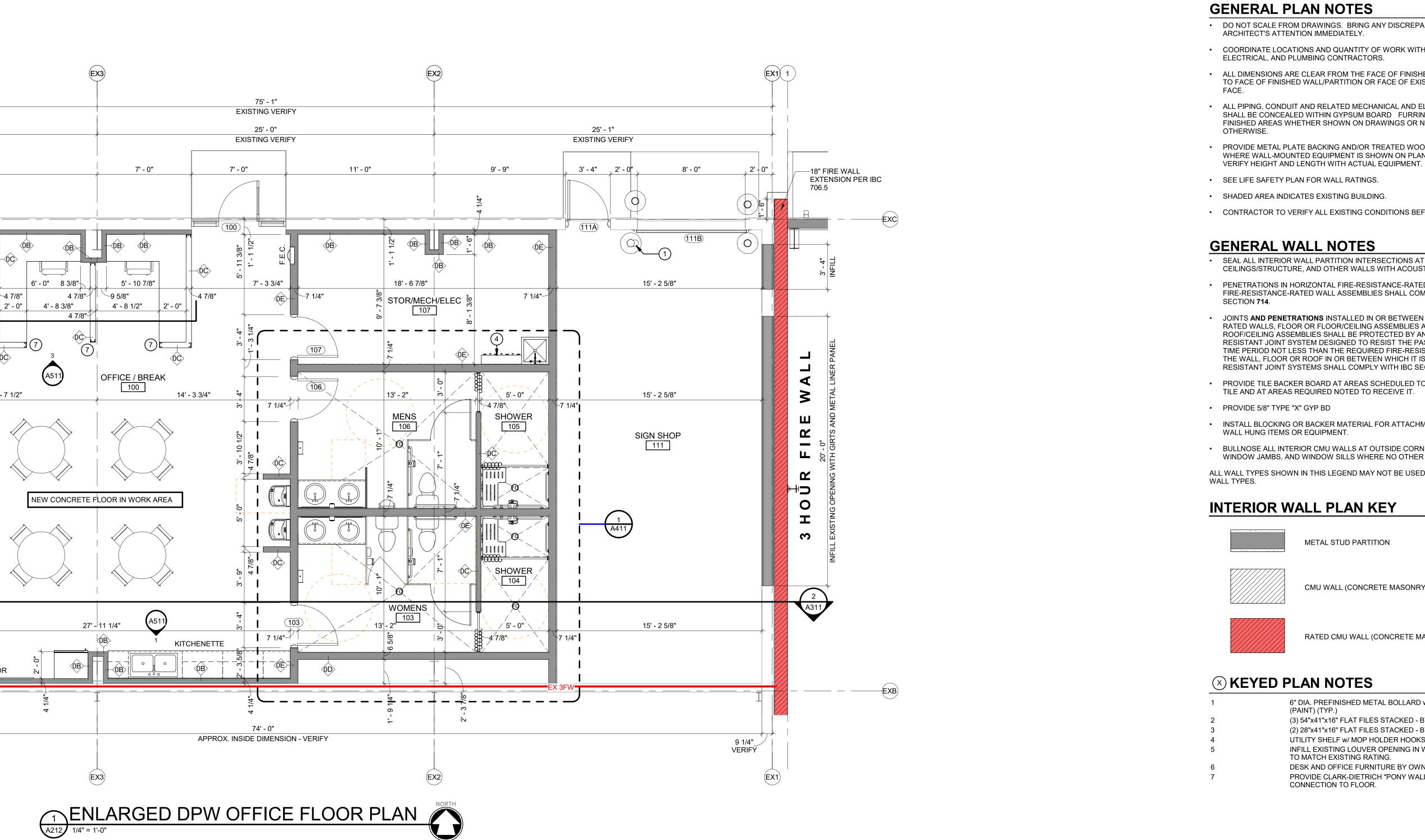
A211

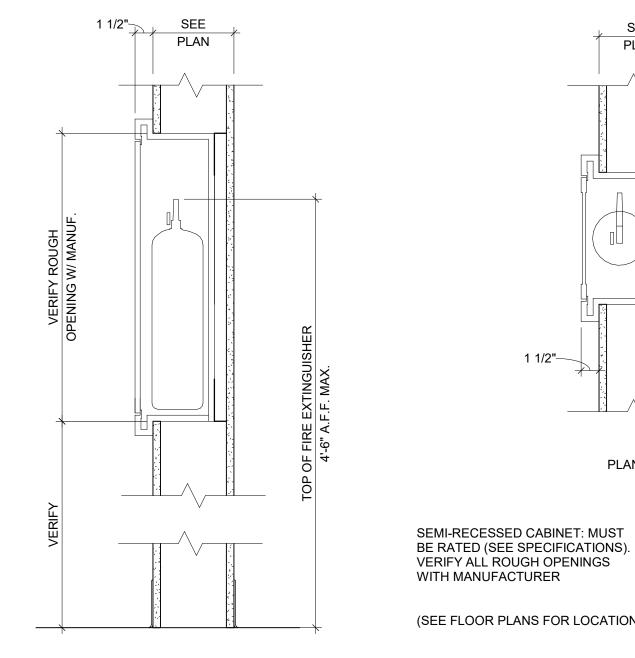




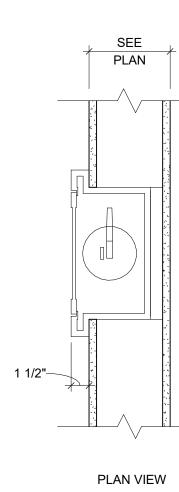
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A511





VERIFY ROUGH PENING W/ MANU



VERIFY ALL ROUGH OPENINGS WITH MANUFACTURER

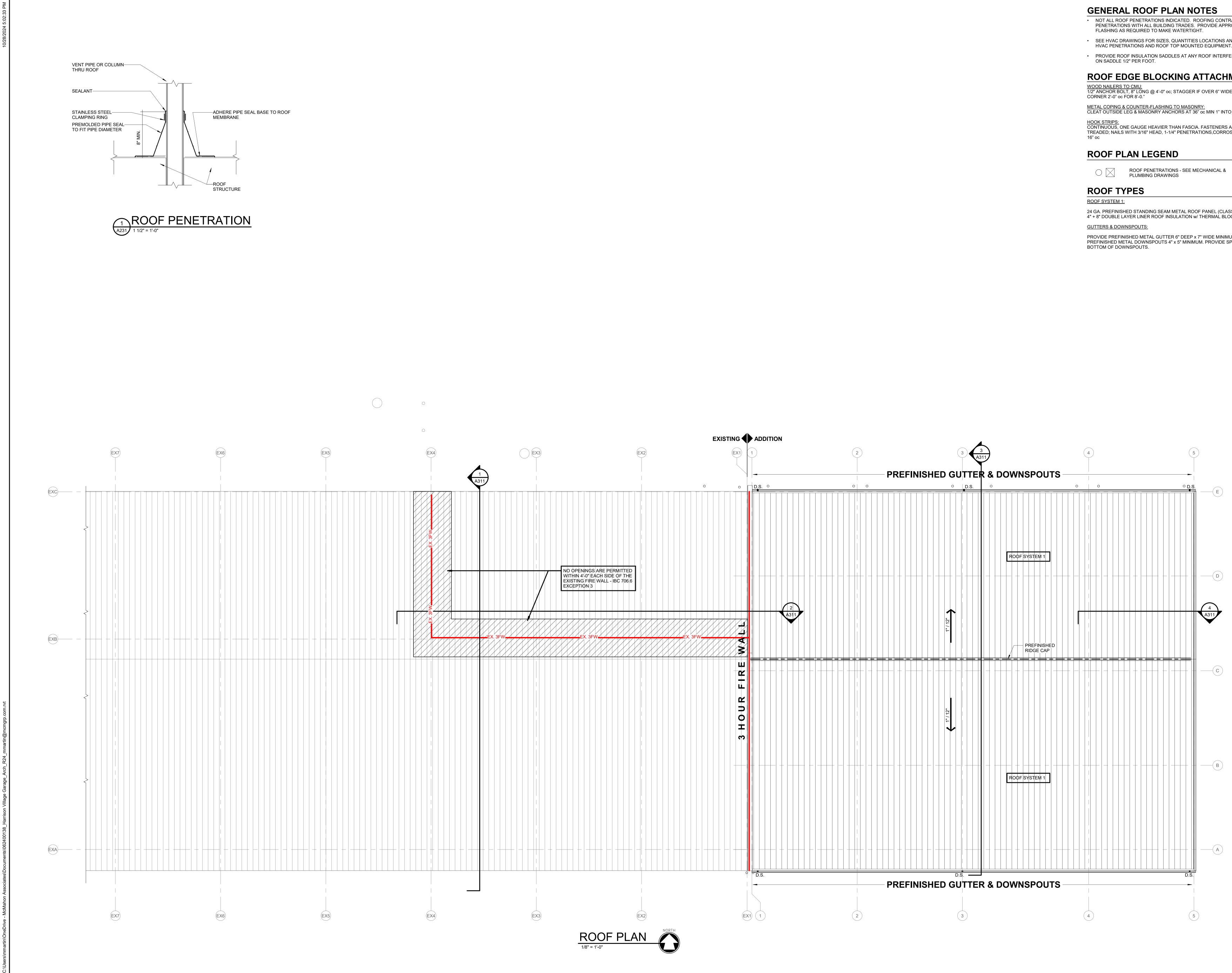
(SEE FLOOR PLANS FOR LOCATIONS)

SECTION

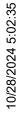
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NOVATION FOR: MENASHA, WI CE FLOOR PLAN
A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON MENASHA, WI ENLARGED DPW OFFICE FLOOR PLAN



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	PRELIMINARY	A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON MENASHA, WI ROOF PLAN
		DESIGNED MAM DJR PROJECT NO. H0006 06-24-00138 DATE OCTOBER 29, 2024 SHEET NO. A231





GENERAL FINISH NOTES

• SEE SPECIFICATIONS FOR SPECIFIC FINISH INFORMATION.

- PAINT ALL EXPOSED STEEL.
- SEE REFLECTED CEILING PLAN FOR CEILING FINISHES. COORDINATE FLOORING WITH PLUMBING FLOOR DRAINS. SEE F PLANS FOR LOCATIONS.
- BASE 6" IN TOILET ROOMS.
- EXPOSED CEILING PAINTED (INCLUDES DUCTWORK, CONDUIT, S ETC.) WHERE INDICATED

FINISH PLAN LEGEND

	_
XX#XX#	TRANSITION BETWEEN FLOORING MATERIALS
$\overline{\underline{}}$	FLOORING INSTALLATION DIRECTION
WALL T FLOOR NOTES	MATERIAL ABBREVIATIONS - SEE ABBREVIATIONS - SEE ABBREVIATIONS FOR ADDITIONAL INFORMAT

A NOTES WALL CG-#

CORNER GUARD LOCATION - ALL CORNER G CG-1 UNLESS OTHERWISE NOTED

ROOM FINISH ABBREVIATIONS

FLOORS	<u>3</u>
PT1	PORCELAIN TILE:
SC	SEALED CONCRETE
EPX	EPOXY FLOORING
BASE	
VB1	VINYL BASE:
PTB1	PORCELAIN TILE BASE:
<u>WALLS</u>	
P1	PAINT: LATEX WALL PAINT
EP1	EPOXY PAINT:
MLP	PREFINISHED METAL LINER PANEL
PWT1	PORCELAIN WALL TILE:
CABINE	TRY
PL1 PL2	PLASTIC LAMINATE: PLASTIC LAMINATE:
SS1	SOLID SURFACE:

ROOM FINISH REMARKS

1. GYP BD CEILINGS PAINTED w/ P#

KEYED PLAN NOTES

MATION. HES. PRAINS. SEE PLUMBING <, CONDUIT, STRUCTURE,		TACTTAR 34				NICIMAHON ASSOCIATES, INC. 1445 MCMAHON DRIVE NEENAH, WI 54956	Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025 Tel: (920) 751-4200 Eax: (920) 751-4284	<u> </u>
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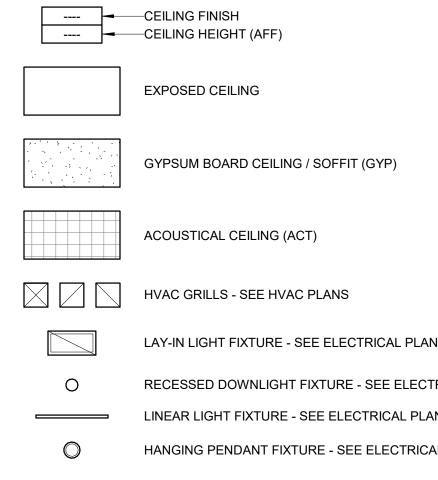


GENERAL CEILING PLAN NOTES

- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICE/FIXT SIZES, INSTALLATION AND SPECIFICATIONS.
- VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO CEILING INS CEILING PLAN SHOWS DESIGN INTENT ONLY, REFER TO SPECIFIC WELL AS MECHANICAL AND ELECTRICAL DRAWINGS FOR DEVICES INSTALLATION. DEVICES SHOWN ON ARCHITECTURAL PLAN AND ENGINEERING DRAWINGS OR SPECIFICATIONS SHOULD BE BROU ARCHITECTS ATTENTION FOR CLARIFICATION.
- ACOUSTICAL CEILING GRID SHALL BE CENTERED IN ROOMS UNLE
- OTHERWISE. CEILING HEIGHTS ARE DIMENSIONED FROM FINISH FLOOR LINE T
- ELEVATION OF FINISHED CEILING UNLESS NOTED OTHERWISE. CENTER IN BOTH DIRECTIONS RECESSED LIGHTS, ELECTRICAL A
- MECHANICAL DEVICES AND SPRINKLER HEADS WHEN SHOWN IN
- MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL COORDINATE DEVICES REQUIRING ACCESS IN NON ACCESSIBLE PROVIDE ACCESS PANELS AS NEEDED (EXAMPLE: MECHANICAL PLUMBING CLEANOUTS, ETC.).

CEILING HEIGHTS SHOWN ARE ESTIMATES OF WHAT CAN BE ACCOM MECHANICAL EQUIPMENT MAY NECESSITATE A CHANGE TO THESE H VERIFY FEASIBLE CEILING HEIGHTS AND DISCUSS NECESSARY CHA THE ARCHITECT PRIOR TO INSTALLATION OF SYSTEMS ABOVE CEILI

CEILING PLAN LEGEND



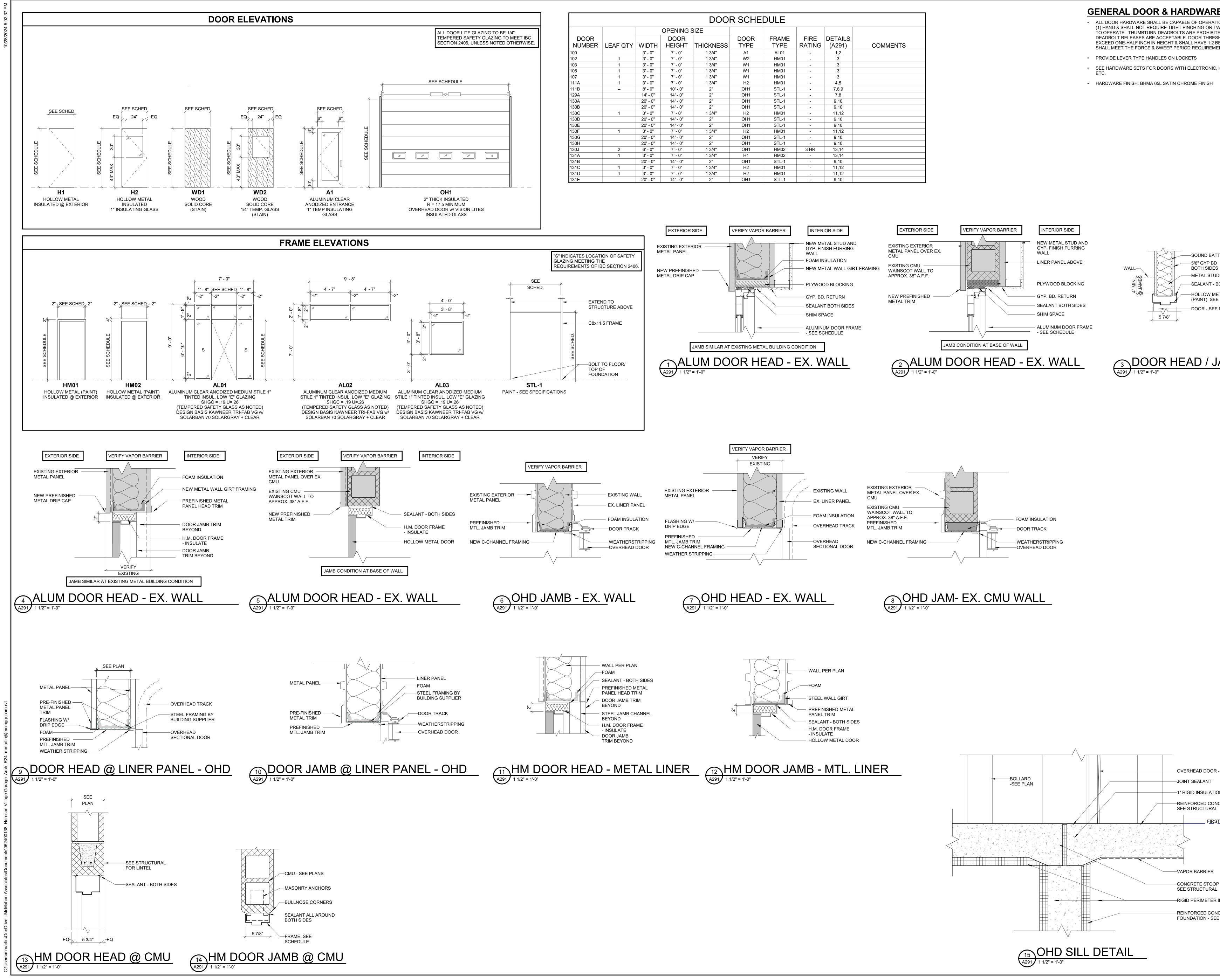
CEILING DESCRIPTIONS

ACT1	ACOUSTICAL CEILING PANELS & GRID - STANDARD
ACT2	ACOUSTICAL CEILING PANELS & GRID - VINYL COVE
GYP1	GYPSUM BOARD (PAINT P-#)
EXP1	EXPOSED STRUCTURE (PAINT P-#)

EXP2 UNFINISHED EXPOSED STRUCTURE

XEYED PLAN NOTES

TES DEVICE/FIXTURE TYPES CEILING INSTALLATION. TO SPECIFICATIONS AS OR DEVICES, TYPES AND PLAN AND NOT ON THE D BE BROUGHT TO COMS UNLESS NOTED COMS UNLESS NOTED DOR LINE TO DESIGN IERWISE.						1445 MCMAHON DRIVE NEENAH, WI 54956	Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025 Tai: (920) 751-4200 Eav: (920) 751-4284
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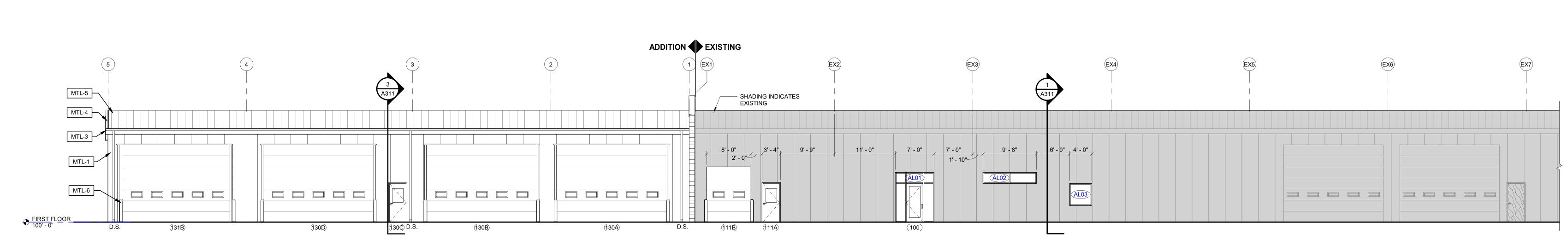


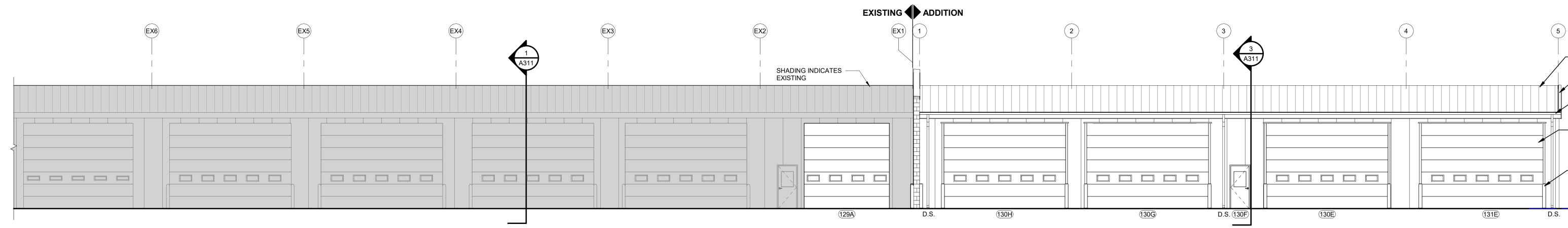
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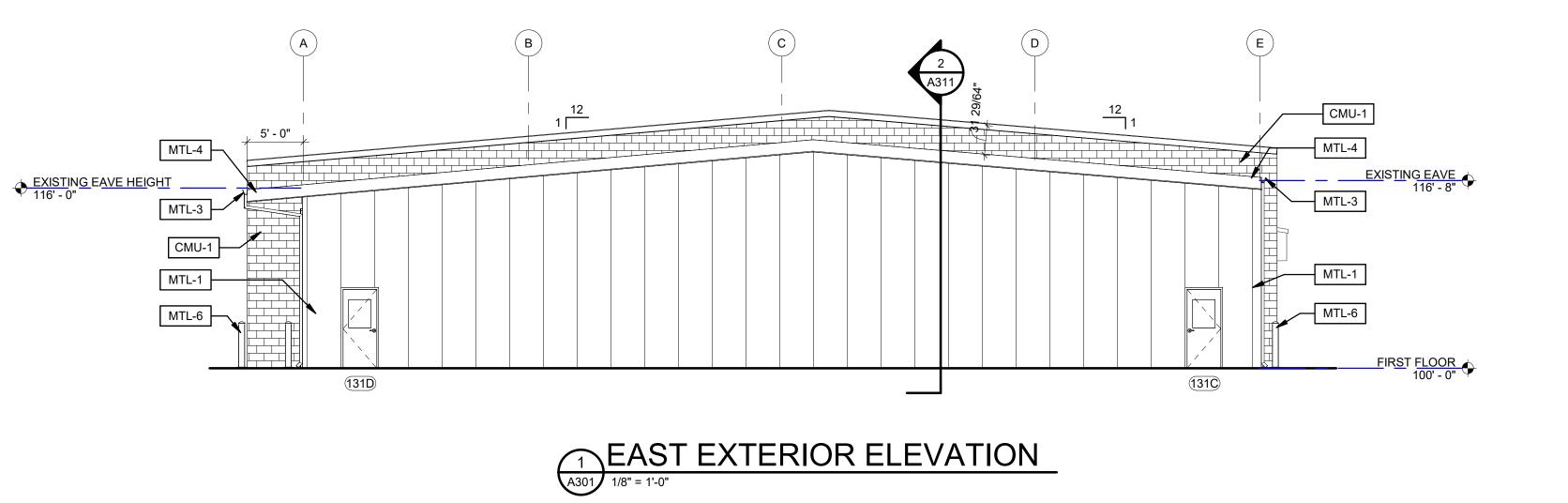
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A291









3 A301 SOUTH EXTERIOR ELEVATION

EXTERIOR MATERIALS LEG

CMU-1 CMU MTL-1 VERTICAL 26 GA. METAL WALL PANELS - COLOR: MATCH EXISTING MTL-3 PREFINISHED METAL GUTTER & DOWNSPOUT

 MTL-0
 PREFINISHED METAL RAKE TRIM

 MTL-5
 PREFINISHED STANDING SEAM METAL ROOF

 MTL-6
 PREFINISHED METAL BOLLARD w/ CONCRETE INFILL

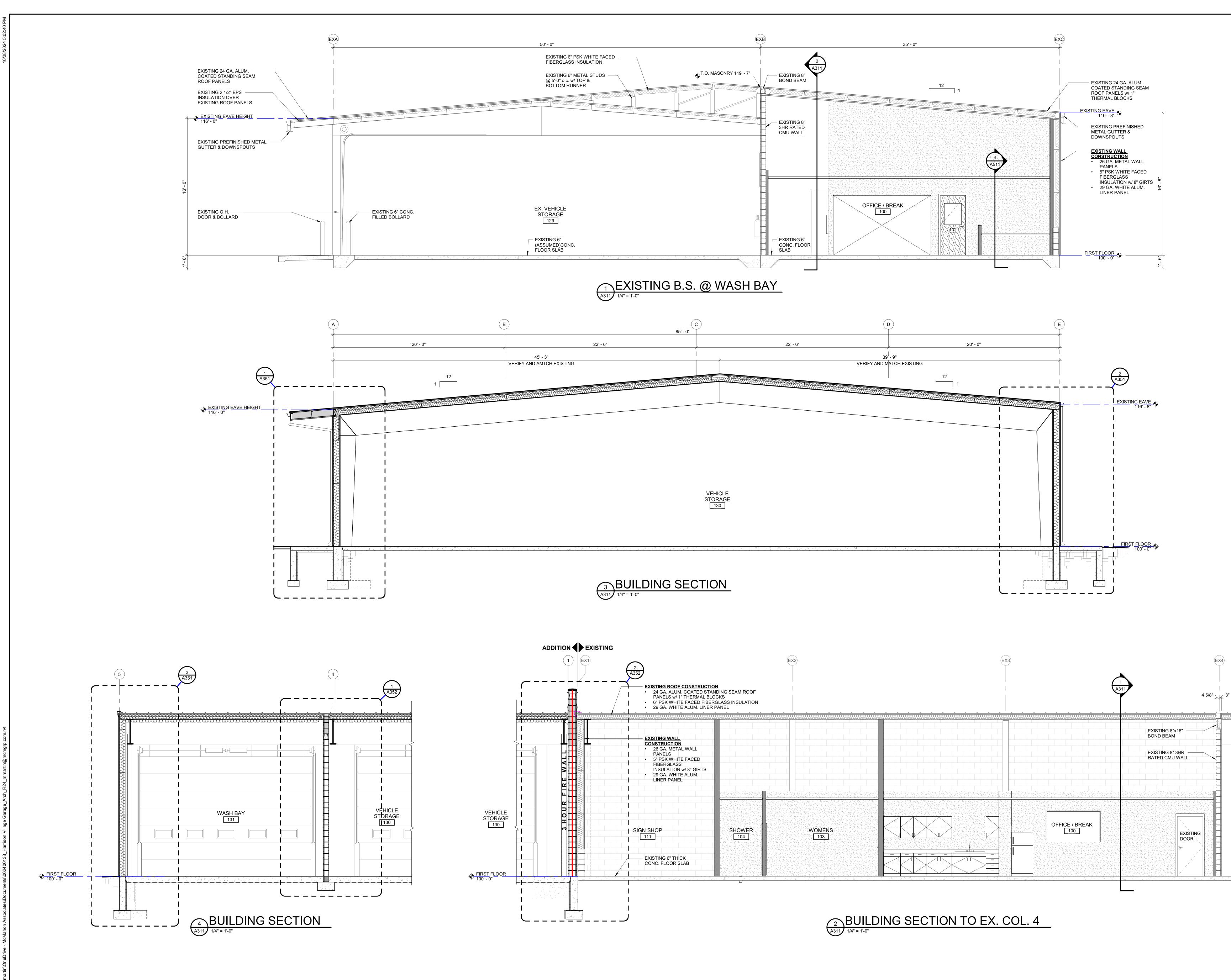
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JE 06 DA BEF	VILLAGE OF HAKKISON MENASHA. WI			and/or recipient agrees to the fullest	
-24 TI R 2				extent permitted by law to indemnify and	MEMAHON ASSOCIATES INC
T N 4-0 E				hold McMahon Associates, Inc.	
D 0. 01 20				harmless for any reuse of or changes	
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N				without prior written consent by	161. (320) 101-4200 FAX. (320) 101-4204
				McMahon Associates, Inc.	www.mcmgrp.com

RUCTION CONS 20 Ζ PRELIMINAR

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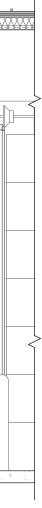
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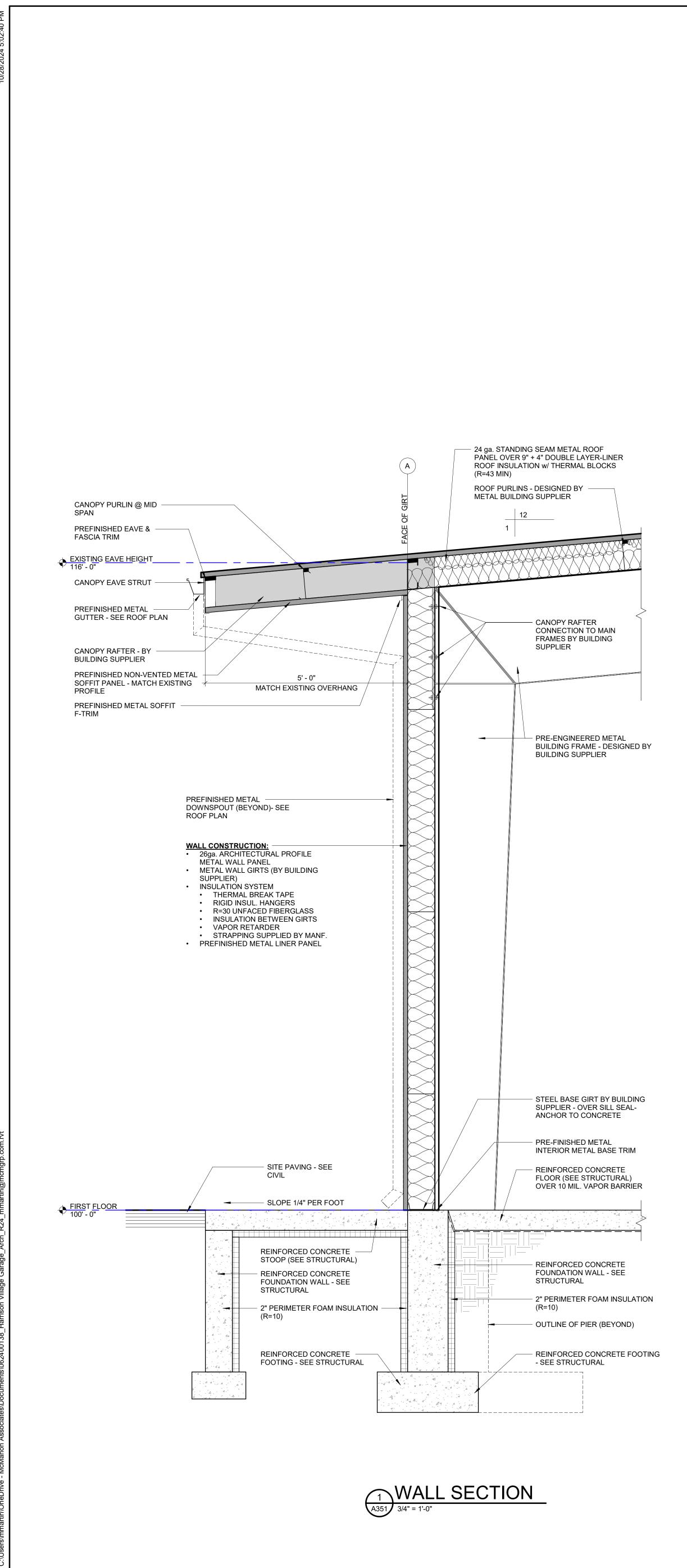




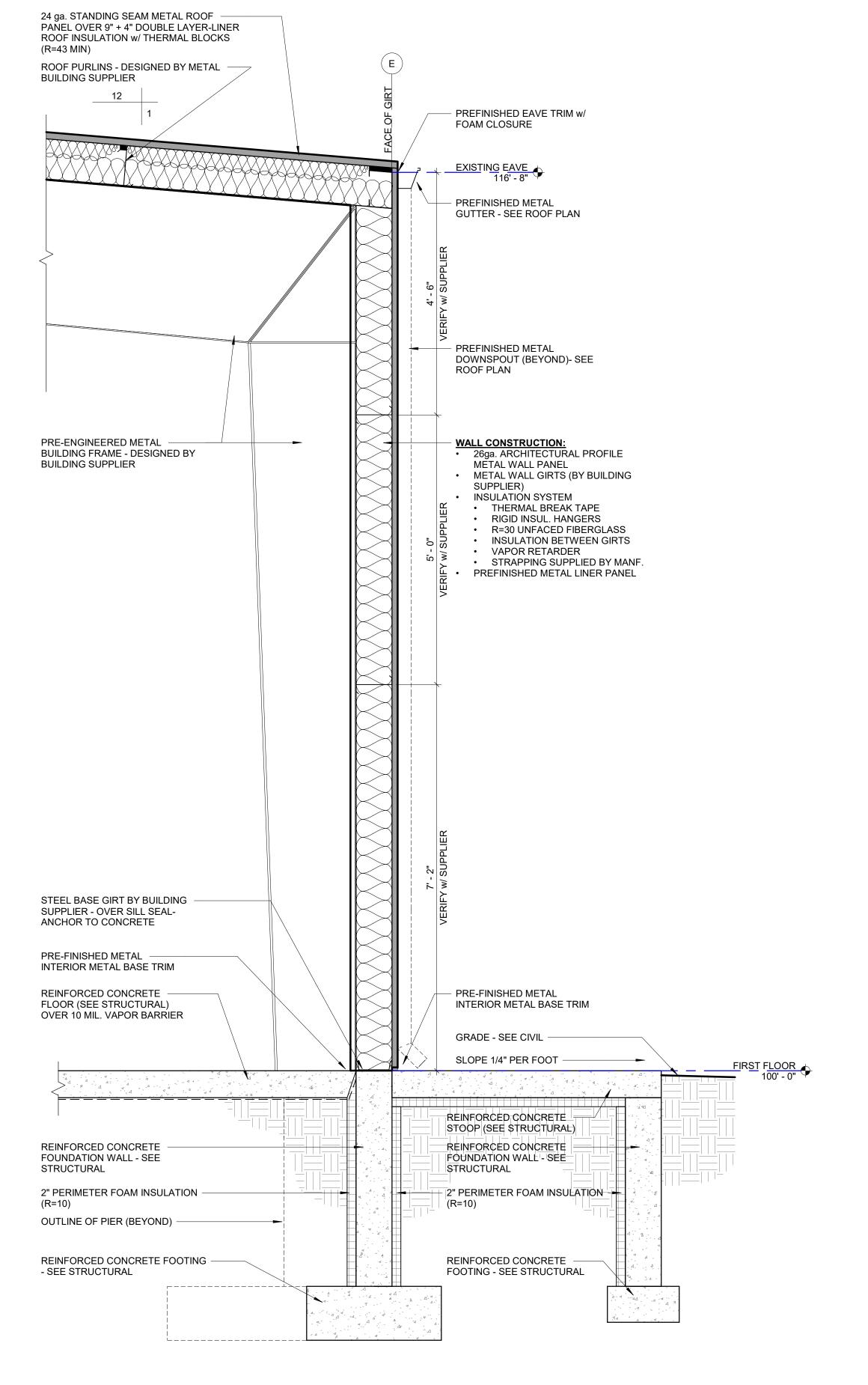
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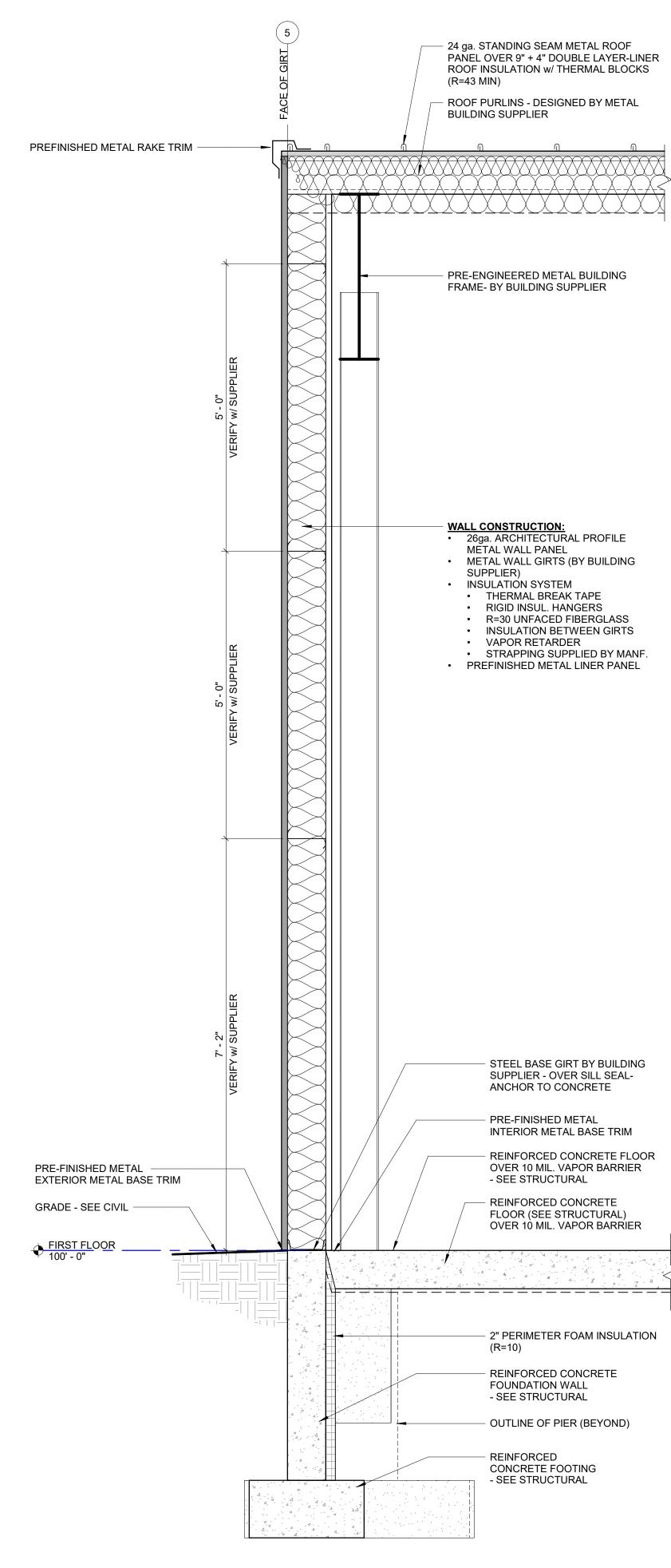
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2 A351 3/4" = 1'-0"

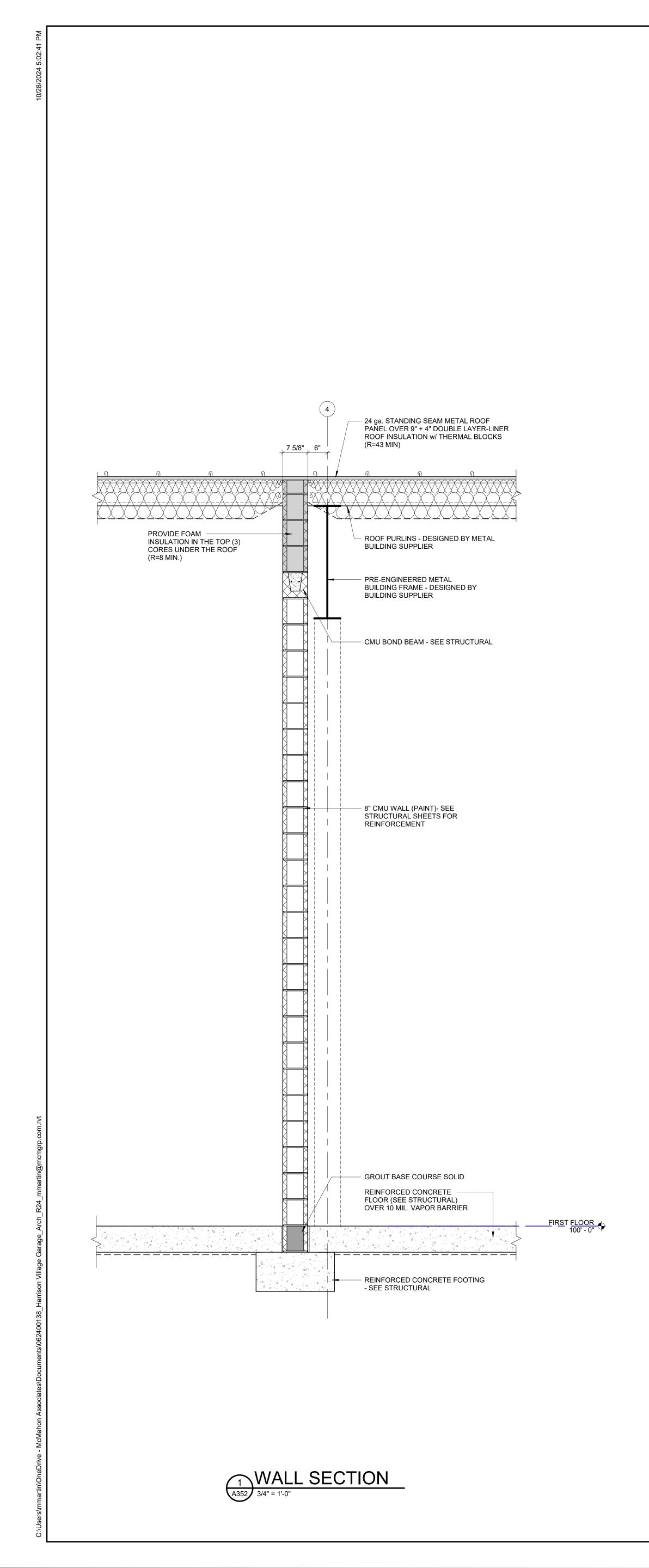


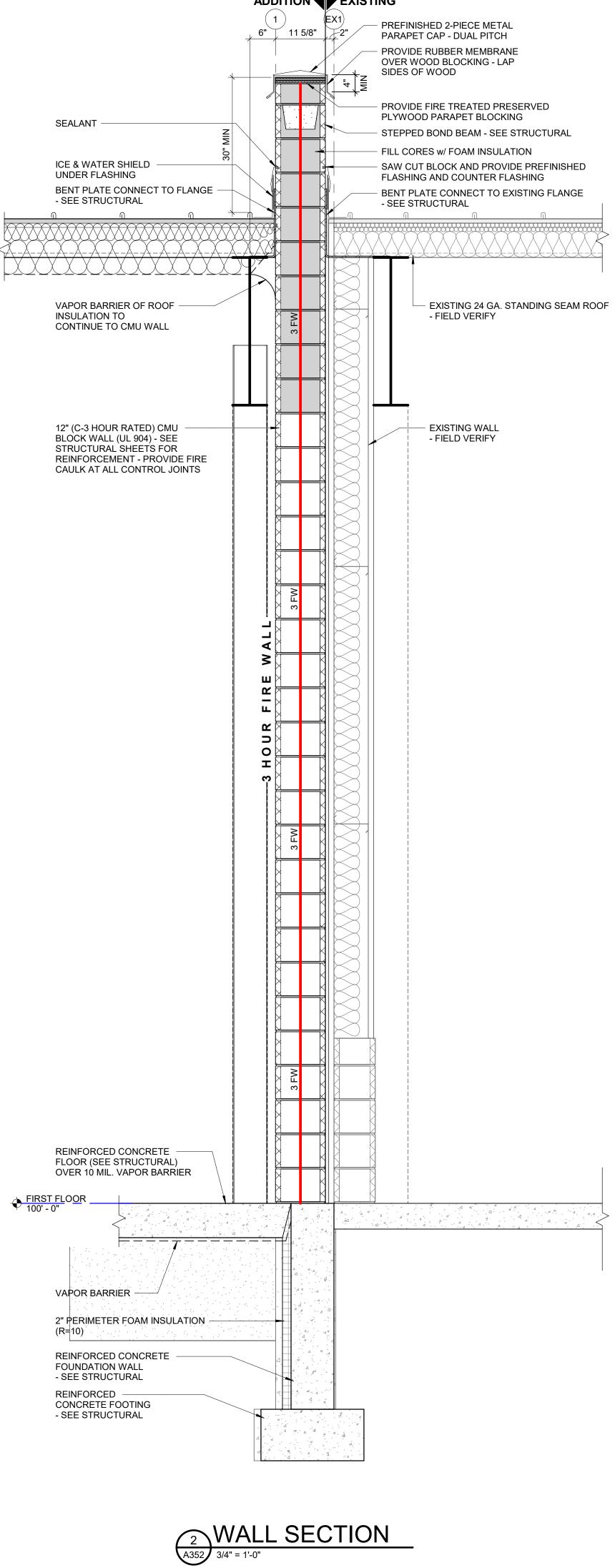




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)24	WALL SECTIONS			made to the original drawing or data without prior written consent by	Tel: (920) 751-4200 Fax: (920) 751-4284
1				McMahon Associates, Inc.	www.mcmgrp.com

SEE TYPICAL SECTION 1/A351 FOR ALL TYPICAL NOTES



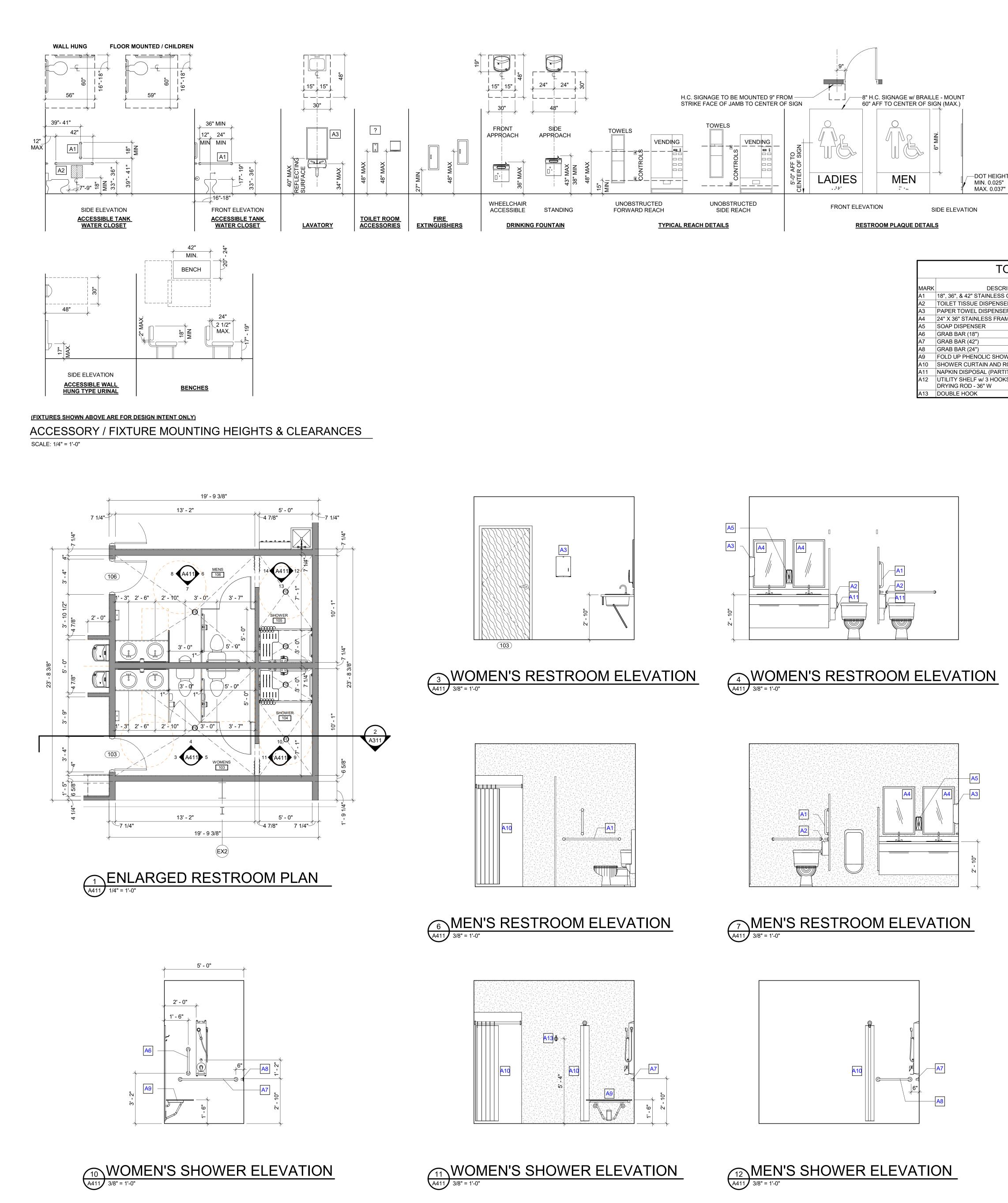


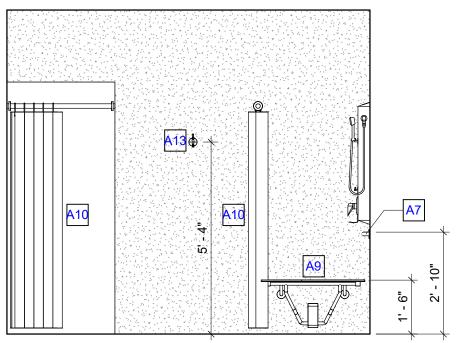
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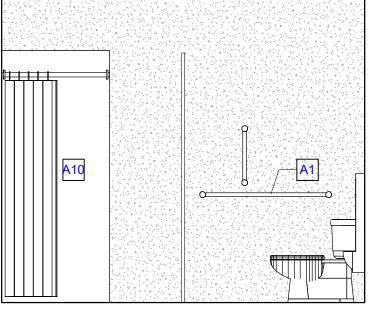
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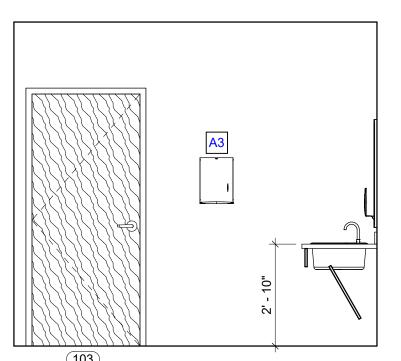
SEE TYPICAL SECTION 1/A352 FOR ALL TYPICAL NOTES

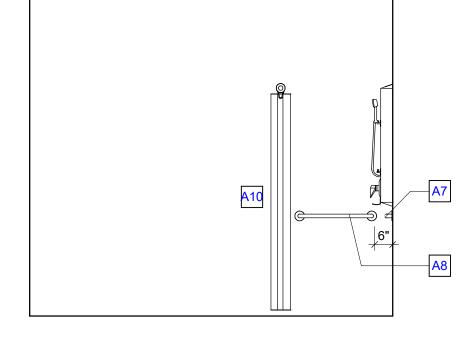


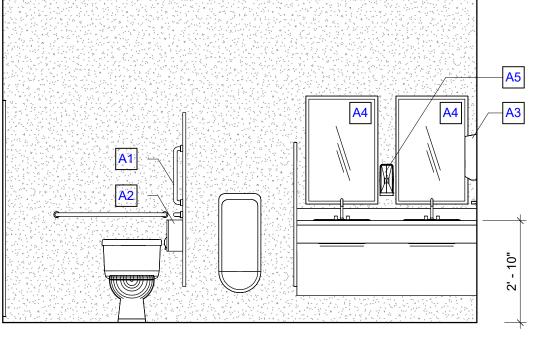




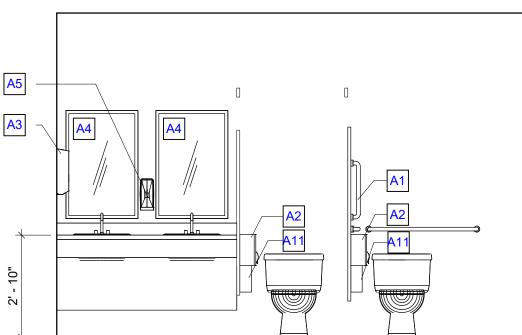


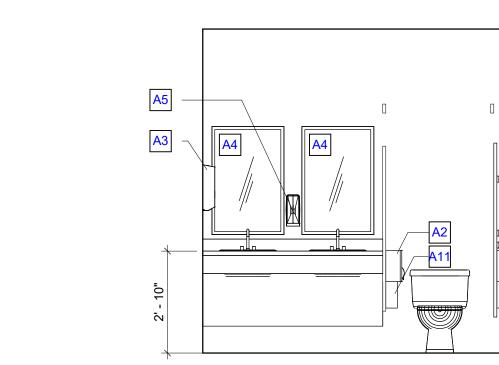


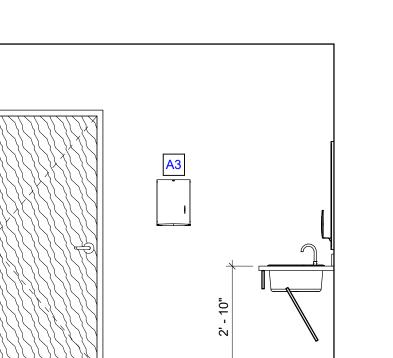


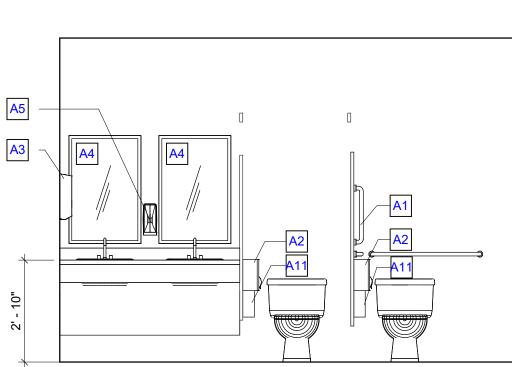


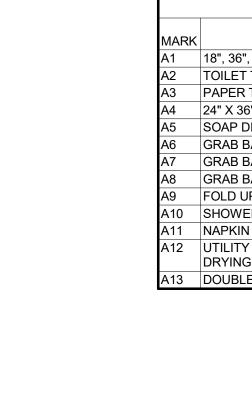
5 WOMEN'S RESTROOM ELEVATION 3/8" = 1'-0"

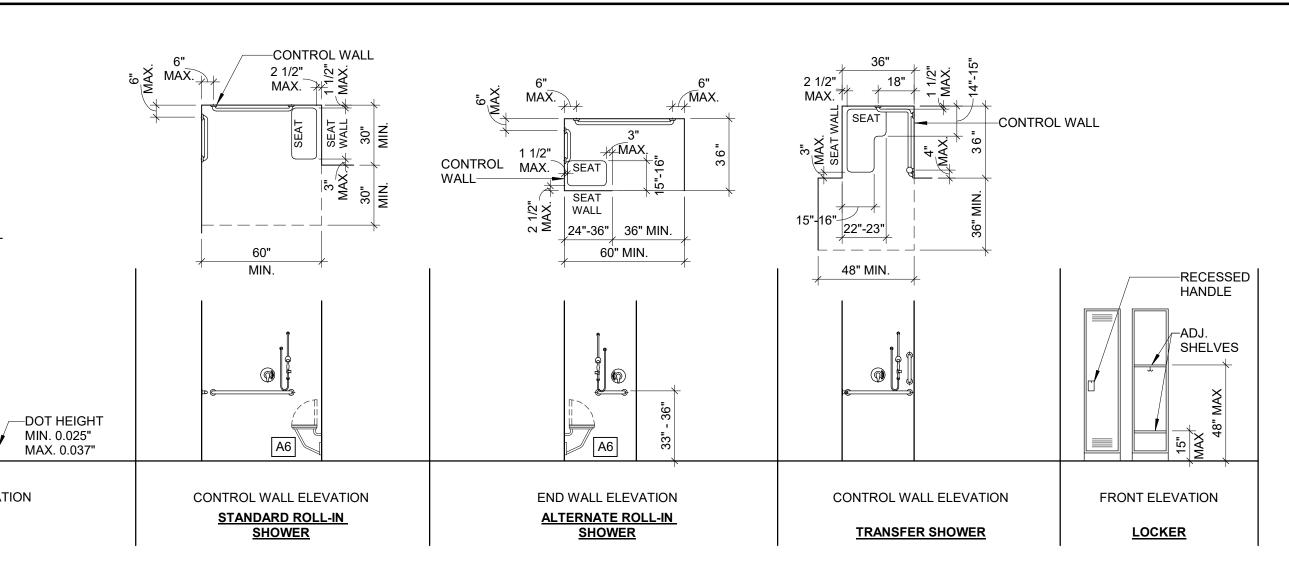




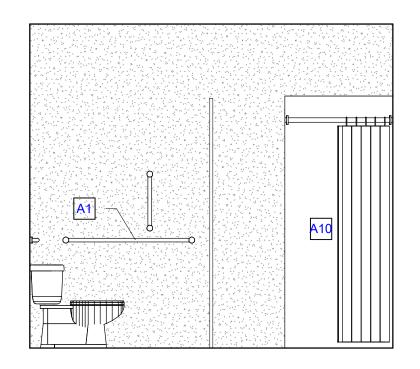


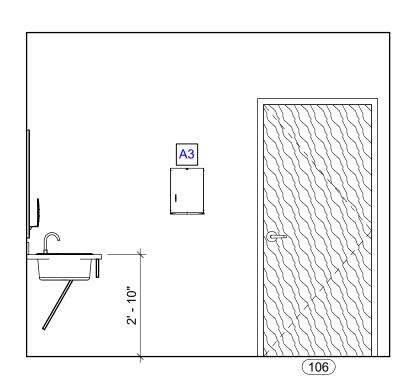




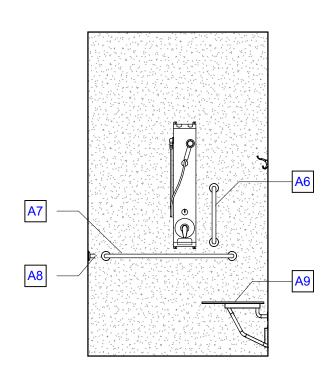


			DESIGN BASIS
DESCRIPTION	FURNISHED BY	INSTALLED BY	(BRADLEY)
AINLESS GRAB BARS			812
DISPENSER	OWNER	GENERAL CONTRACTOR	5402
DISPENSER			2483
ESS FRAMED MIRROR			780
R			6562
	GENERAL CONTRACTOR	GENERAL CONTRACTOR	812
	GENERAL CONTRACTOR	GENERAL CONTRACTOR	812
	GENERAL CONTRACTOR	GENERAL CONTRACTOR	812
LIC SHOWER SEAT	GENERAL CONTRACTOR	GENERAL CONTRACTOR	9569-R
AIN AND ROD	OWNER	GENERAL CONTRACTOR	9539/9536
AL (PARTITION)			4721-15
v/ 3 HOOKS 4 HOLDERS & (1) 6" W	GENERAL CONTRACTOR	GENERAL CONTRACTOR	9984 BradEX
	GENERAL CONTRACTOR	GENERAL CONTRACTOR	914





MEN'S RESTROOM ELEVATION A411 3/8" = 1'-0"



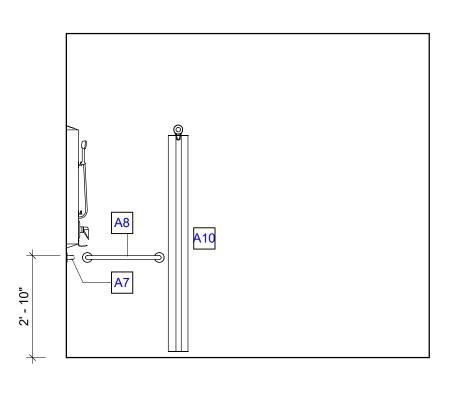
MEN'S SHOWER ELEVATION

GENERAL INTERIOR & CASEWOR PROVIDE TOILET ACCESSORIES PER SPECIFICATIONS OR APPI

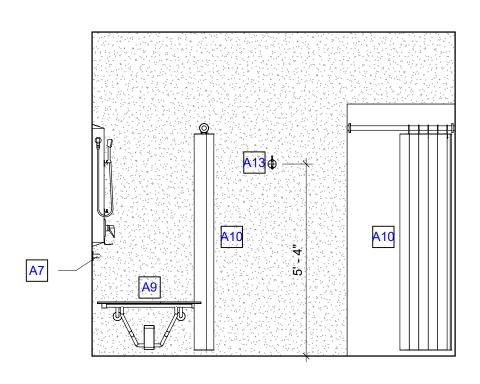
- INSTALL ACCORDING TO MANUF. SPECIFICATIONS. GENERAL CONTRACTOR TO PROVIDE ALL NECESSARY BACKIN
- PROVIDE OFFSET TRAP AND HW, CW, DRAIN INSULATION KIT A SINKS.
- FIELD VERIFY ALL DIMENSIONS PRIOR TO CASEWORK CONSTR
- VERIFY ALL EQUIPMENT WITH OWNER PRIOR TO CONSTRUCTION
- COORDINATE GROMMET LOCATIONS WITH OWNER PRIOR TO I
- RADIUS ALL OUTSIDE CORNERS OF COUNTERTOPS.
- SUPPLY AND INSTALL SUPPORT BRACKETS AS NEEDED UNDER • MINIMUM 1" FILLER WHERE CABINET IS 90 DEGREES TO WALL
- CABINETS • FOR SHELVES GREATER THAN 2'-6" IN WIDTH PROVIDE DOUBL ADJUSTABLE SHELF

CASEWORK LEGEND

- INDICATES CASEWORK AND COUNTER MATERIAL. SEE FINIS F CABINET FILLER - MINIMUM 1" FILLER WHERE CABINET IS 90
- WALL OR OTHER CABINETS CS COUNTER SUPPORT BRACKET
- FINISHED END PANEL EP
- GROMMET TO BE LOCATED APPROXIMATELY 2" FROM BACK COUNTERTOPS. COORDINATE WITH OWNER PRIOR TO INST G
- KS KNEE SPACE
- L LOCK ON CASEWORK DOOR
- FL FILE DRAWER HARDWARE WITH LOCK
- WM WIRE MANAGEMENT
- MC MOBILE CABINET UC UNDERCOUNTER / UNDER CABINET LIGHT FIXTURE BY ELEC
- AP ACCESS PANEL
- PD PENCIL DRAWER
- SF SINK & FAUCET SEE PLUMBING DRAWINGS
- TB TACKBOARD
- CO 6" DIA COUNTER TOP OPENING, SEE PLANS FOR QUANTITY, WITH OWNER

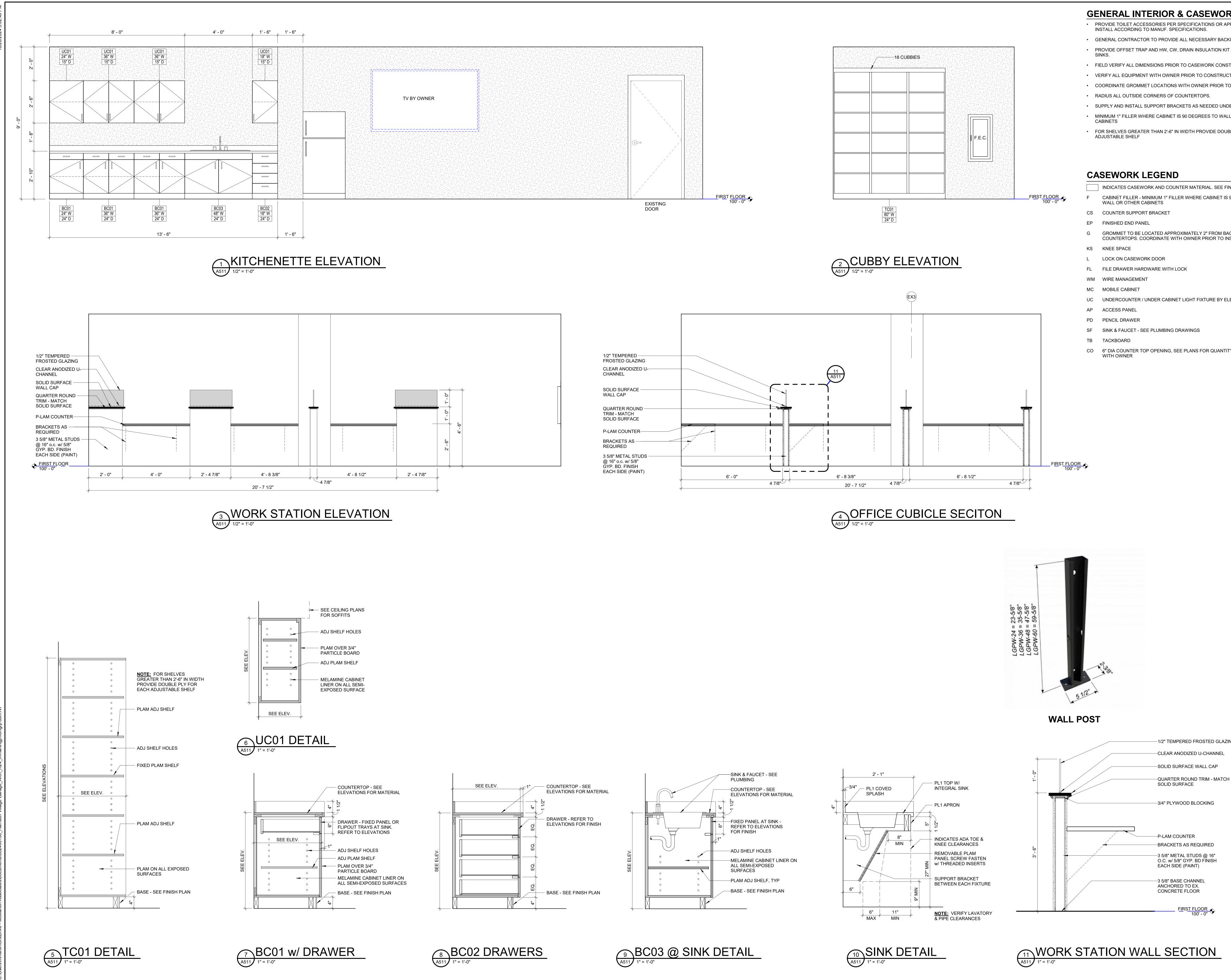


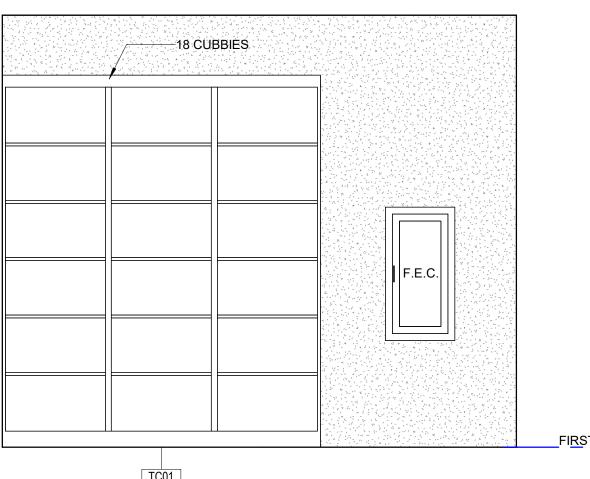
9 A411 3/8" = 1'-0" WOMEN'S SHOWER ELEVATION



MEN'S SHOWER ELEVATION

		MACHONAL ARCHIECTS INCOMPLANT ARCHIECTS MCMAHON ASSOCIATES, INC. 1445 McMAHON DRIVE NEENAH, WI 54956 Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025 Tel: (920) 751-4200 Fax: (920) 751-4284 WWW.mcmgrp.com
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K NOTES PROVED EQUAL. NG IN WALLS. AT ALL OPEN RUCTION. ION. INSTALLATION.		
OR OTHER LE PLY FOR EACH	TRUCTION	REVISION
0 DEGREES TO K OF TALLATION.	FOR CONS	NO. DATE
CTRICAL TRADE	NOT	
, verify size	PRELIMINARY	A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON MENASHA, WI ENLARGED RESTROOM PLANS & ELEVATIONS
		DESIGNED DRAWN MAM DJR PROJECT NO. H0006 06-24-00138 DATE OCTOBER 29, 2024 SHEET NO. A4411







F CABINET FILLER - MINIMUM 1" FILLER WHERE CAE WALL OR OTHER CABINETSCS COUNTER SUPPORT BRACKET	
CS COUNTER SUPPORT BRACKET	F
	CS
EP FINISHED END PANEL	EP
G GROMMET TO BE LOCATED APPROXIMATELY 2" F COUNTERTOPS. COORDINATE WITH OWNER PRIC	G
KS KNEE SPACE	KS

RK NOTES PPROVED EQUAL. KING IN WALLS. T AT ALL OPEN STRUCTION. CTION. TO INSTALLATION.		TACTTATAT			MOMAHON ASSOCIATES INC	1445 McMAHON DRIVE NEENAH, WI 54956	Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025 Tel: (920) 751-4200	www.mcmgrp.com
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ACK OF NSTALLATION.								
LECTRICAL TRADE	7							
TY, VERIFY SIZE	FOR CONSTRUCTION	NO. DATE REVISION						
ING	PRELIMINARY NOT		A NEW ADDITION & RENOVATION FOR:		VILLAGE OF HARKISON MENASHA, WI		INTERIOR FLEVATIONS	
		DE	MA H0 OC	PRO 0006 CTOE	D DJJEC 06-2: DATI BER 2 EET	I T NC 4-00 E 29, 2 NO.	138 024	1

DESIGN CODE: 1. COMPLY WITH THE FOLLOWING CODES: ASCE 7-10 IBC 2015		 SLAB ON GRAD 1. CONTRACTOR SHALL OBT AFTER EXCAVATION TO VI GEOTECHNICAL ENGINEE
WISCONSIN BUILDING CODE, LATEST	EDITION	SATISFACTORY SOIL IS EN STRUCTURAL FILL. 2. PROVIDE 8" MINIMUM OF S
1. DEAD LOAD: ROOF 2. LIVE LOAD:	- PER PEMB SUPPLIER	GRADE. 3. SLAB BASE MATERIAL
ROOF 3. SNOW LOAD:	- 20 PSF	LOCATION: BELC TYPE: GRA SPEC
GROUND SNOW LOAD (Pg) UNIFORM SNOW LOAD (Ps) ROOF SLOPE FACTOR (Cs) SNOW EXPOSURE FACTOR (Ce)	- 40 PSF - 34 PSF - 1.00 - 1.00	MAT BASE #4 SI
ROOF THERMAL FACTOR (Ct) IMPORTANCE FACTOR (I)	- 1.00 - 1.20	THE COMPACTION: UNLE PRO
4. WIND: DESIGN WIND SPEED WIND EXPOSURE INTERNAL PRESSURE COEFFICIENT (- 120 MPH - C GCpi) - 0.18 (ENCLOSED STRUCTURE)	PRO 4. PROVIDE 10 MIL. THICK CL
5. SEISMIC: MAPPED SPECTRAL RESPONSE:		PLACE CONCRETE ON GR APPLICABLE LOCATIONS, 5. PROVIDE CONSTRUCTION
Ss S₁ IMPORTANCE FACTOR (I) SITE CLASS	- 0.056 - 0.035 - 1.50 - D	ADEQUATELY CONTROL S WITHIN 18 HOURS OF FIN/
<u>GENERAL:</u>		 SLAB JOINTS SHALL GENE UNLESS OTHERWISE NOT THE FOLLOWING: A. 4" SLAB - 10'-0"o.c.
1. VERIFY ALL DIMENSIONS, ELEVATIONS, S ARCHITECTURAL AND STRUCTURAL PLAN ARCHITECT/ENGINEER OF ANY DISCREP	NS PRIOR TO STARTING WORK. NOTIFY	 B. 5" SLAB - 12'-0"o.c. C. 6" SLAB - 15'-0"o.c. D. 8" SLAB - 20'-0"o.c.
2. SEE MECHANICAL PLANS FOR CONCENT ROOF FRAMING.	RATED EQUIPMENT POINT LOADS ON FLOOR AND	7. SEE PLUMBING PLANS FC SLAB.
	F WALL, FLOOR, AND ROOF OPENINGS WITH THE NICAL, AND ELECTRICAL PLANS. PROVIDE ALL	 8. SLABS SHALL BE PITCHEI MINIMUM PITCH. 9. INTERIOR FLOOR SLABS \$
4. CONTRACTOR SHALL COORDINATE LOCA ATTACHMENTS TO STRUCTURAL FRAMIN	ATIONS OF ALL ARCHITECTURAL AND MECHANICAL IG.	9. INTERIOR FLOOR SLABS WITH ACI 318. 10. PROVIDE 30# FELT BOND
5. AN ELECTRICAL GROUNDING PLAN AND S LICENSED PROFESSIONAL ENGINEER FO	SYSTEM SHALL BE DESIGNED AND DEVELOPED BY A R THE STEEL STRUCTURE.	AND/OR MASONRY SURF
	BRACING, SHORING, GUYING, OR OTHER MEANS TO DLD STRUCTURAL ELEMENTS IN PLACE DURING	ABUTS VERTICAL SURFAC ADDITIONAL INSULATION 12. AT CONTRACTORS OPTIC
AND ACCESSORIES, STRUCTURAL STEEL	FABRICATED ITEMS SUCH AS REINFORCING STEEL ., PRE-ENGINEERED METAL BUILDINGS, AND & SHALL REVIEW SHOP DRAWINGS BEFORE	CAST-IN-PLACE
SUBMITTING TO ENGINEER. FABRICATE 8. JOBSITE SAFETY IS THE CONTRACTOR'S		1. CONCRETE AND ITS PLAC PROJECT SPECIFICATION
9. CONTRACTOR SHALL CONFORM WITH AL 10. THE ENGINEER/ARCHITECT IS NOT RESP	L OSHA REGULATIONS. ONSIBLE FOR THE MEANS AND METHODS OF	ACCORDANCE WITH ACI 2. STANDARD WEIGHT CON A. MINIMUM COMPRESS
CONSTRUCTION OR THE SAFETY OF THE TO REMAIN SOLELY THOSE OF THE CON	JOB SITE. THESE RESPONSIBILITIES ARE INTENDED IRACTOR.	B. MAXIMUM WATER/CE
 ALL MATERIAL INSTALLATIONS SHALL BE RECOMMENDATIONS. THE STRUCTURAL PLANS AND DETAILS F 	INSTALLED PER THE MANUFACTURER'S	D. TOTAL AIR CONTENT E. MAX SLUMP
ERECTION AND CONSTRUCTION LOADS. INVESTIGATION OF THE STRUCTURAL FR	CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AMING FOR ERECTION OR CONSTRUCTION LOADS.	F. REINFORCING BARS: G. WELDED WIRE FABR
13. WHEN REFERENCED IN THE PLANS AND ANCHORS SHALL BE PERMISSIBLE. CONT FOR ANY ALTERNATE POST-INSTALLED A A. ADHESIVE/EPOXY ANCHORS	RACTOR SHALL SUBMIT SUBSTITUTION REQUEST	H. NO ADMIXTURES WIT CHLORIDES SHALL N 3. ALL CONCRETE SHALL B
1. HILTI: HY 200, HY 150 MA 2. POWERS: AC100+ GOLD B. EXPANSION ANCHORS	X	AND INTERIOR CONCRET BE NON-AIR ENTRAINED,
1. HILTI: KWIK BOLT TZ 2. POWERS: POWER-STUD+ SE 14. SEE SPECIFICATIONS MANUAL FOR ADDI	02 TIONAL AND SUPPLEMENTAL INFORMATION NOT	 4. CONCRETE COVERAGE F A. UNFORMED CONCRETE B. FORMED CONCRETE C. OTHER CONCRETE
ADDRESSED WITHIN THESE OUTLINE SPE EXISTING CONSTRUCT	ECIFICATIONS.	5. LAP SPLICES SHALL BE T DRAWINGS. LOCATE SPL
	DIMENSIONS AND ELEVATIONS CORRESPONDING TO	PERMITTED. A. ALL REINF. EXCEPT F
2. CONTRACTOR SHALL FIELD VERIFY EXIS ARCHITECT/ENGINEER OF ANY CONFLIC		REINFORCEMEN #3 THROUGH #6
	ALL EXISTING CONSTRUCTION (ARCHITECTURAL, L) AS REQUIRED IN ORDER TO PLACE NEW INSTRUCTION DOCUMENTS.	#7 THROUGH #11 B. HORIZONTAL REINFC CAST BELOW THE RE
4. CONTRACTOR SHALL DESIGN AND PROV CONSTRUCTION AND NEW CONSTRUCTION	IDE ALL SHORING REQUIRED TO SUPPORT EXISTING ON AS REQUIRED.	REINFORCEMEN
		#3 THROUGH #6 #7 THROUGH #11
1. ASSUMED SOIL BEARING - 2,000 P.S.F. CC GEOTECHNICAL CONSULTANT DURING C CONDITIONS AND REPORT FINDINGS TO	ONSTRUCTION TO TEST AND VERIFY ASSUMED SOIL	C. WELDED WIRE FABRI
EXCAVATION TO VERIFY SOIL BEARING P GEOTECHNICAL ENGINEER, REMOVE UN	SATISFACTORY SOILS TO AN ELEVATION WHERE	 COMPLY WITH ACI 301. PO DISPLACEMENT, LOCATE SPACERS, AND HANGERS CONCRETE, NOT TOWAR
 SATISFACTORY SOIL IS ENCOUNTERED. COMPACTED STRUCTURAL FILL OR CONF 3. PLACE FOUNDATION CONCRETE ON CLE 		7. RE-ENTRANT CORNERS: CONTRACTOR SHALL INS
	LLS (U.N.O.) COLUMN FOOTINGS ARE CENTERED ON	8. PROVIDE BENT CORNER INTERSECTIONS OF WAL
	TICALLY AT ALL EXTERIOR FOUNDATION LOCATIONS.	9. PROVIDE DOWELS OF SA REINFORCING, WITH STA
USE EXTRUDED POLYSTYRENE INSULATI LOCATIONS OF INSULATION.	ON WITH R=10. SEE ARCHITECTURAL PLANS FOR	10. MAXIMUM FREE DROP OF 11. CONCRETE CAN ONLY BE
UNDERGROUND GAS, SEWER, WATER, A 8. STRUCTURAL FILL		12. MECHANICALLY VIBRATE
LOCATION: ALL BACKFILL WITHIN FOUNDATIONS, AND E	5'-0" OF THE BUILDING LINES, BELOW STRUCTURAL BEHIND RETAINING WALLS WITHIN A WEDGE S 45 DEGREES FROM THE BACK FACE OF RETAINING	CONCRETE IS ADJACENT 14. ALL CAST-IN-PLACE CON KEPT MOIST FOR A MININ
TYPE: PREDOMINANTLY WE STRINGENT REQUIRE	LL GRADED GRANULAR MATERIAL. UNLESS MORE MENTS ARE SPECIFIED BY THE PROJECT	15. AT LEAST 24 HOURS SHA BETWEEN CONSTRUCTIO
GEOTECHNICAL ENG	NEER, PROVIDE MATERIAL WITH 100% PASSING THE SSING THE #4 SIEVE AND LESS THAN 15% PASSING	16. CONSTRUCTION JOINTS
PROJECT GEOTECHN	GENT REQUIREMENTS ARE SPECIFIED BY THE IICAL ENGINEER, COMPACT TO 95% MODIFIED 557) PLACED IN LIFTS NOT TO EXCEED 8".	WITH STRUCTURAL DETA A. HAVE A MINIMUM OF
9. IN AREAS OF COMPACTED FILL WITHIN TH SIDES OF WALLS SHALL BE DONE AT THE OVERTURNING OF FOUNDATION WALLS.	HE BUILDING LINES, BACKFILLING AGAINST BOTH SAME RATE TO PREVENT STRESS AND	 B. DOES NOT INTERFER DETAILED OTHERWIS C. SPACED AT LEAST THE
10. ALL EARTHWORK WITH ON-SITE MATERIA ARE ABOVE FREEZING. FROZEN SOIL SH	ALS SHOULD BE PERFORMED WHEN TEMPERATURES IOULD NOT BE USED BENEATH STRUCTURES. ALL	D. ALUMINUM CONDUIT
FOUNDATION EXCAVATION MUST BE INSU OF FOUNDATION IS COMPLETE. 11. SOILS THAT BECOME RUTTED OR DISTUR	ULATED AGAINST FREEZING UNTIL CONSTRUCTION	E. AT CONCRETE BEAM THE PIPE.
UNSUITABLE FOR SUPPORTING FOUNDA REMOVED AND REPLACED WITH COMPA	TION AND CONCRETE SLABS. THE SOILS SHALL BE CTED STRUCTURAL FILL.	18. CONCRETE FIELD TESTS CONDUCTED BY A CERTI SHALL BE SUBMITTED TO
AN NO BOIL DIOTUDDANIOFO LIOUFO OD TOP	ENCHES ARE PERMITTED BELOW FOOTINGS, WITHIN	

<u>DE:</u>

BTAIN A GEOTECHNICAL ENGINEER TO INSPECT SLAB SUB-GRADE VERIFY EXISTING SOIL CONDITIONS. AT THE DIRECTION OF THE EER, REMOVE UNSATISFACTORY SOILS TO AN ELEVATION WHERE ENCOUNTERED. REPLACE UNSATISFACTORY SOIL w/ COMPACTED

F SLAB BASE MATERIAL BELOW ALL CAST-IN-PLACE CONCRETE ON

ELOW SLAB ON GRADE.

RANULAR FILL. UNLESS MORE STRINGENT REQUIREMENTS ARE PECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. PROVIDE ATERIAL SUCH AS MANUFACTURED SAND OR 3/4" CRUSHED LIMESTONE ASE COURSE WITH 100% PASSING THE 1" SIEVE, 40-100% PASSING THE SIEVE, 15-30% PASSING THE #40 SIEVE, AND LESS THAN 10% PASSING HE #200 SIEVE.

NLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED BY THE ROJECT GEOTECHNICAL ENGINEER, COMPACT TO 95% MODIFIED ROCTOR (ASTM: D1557) PLACED IN LIFTS NOT TO EXCEED 8". CLEAR POLYETHYLENE FILM VAPOR BARRIER BELOW ALL CAST-IN-

GRADE INSIDE BUILDING. SEE ARCHITECTURAL PLANS FOR NS, WHERE FINISHED FLOORS OCCUR. ON JOINTS (C.J.) AND SAWCUT JOINTS (S.J.) AS NECESSARY TO

SHRINKAGE CRACKING. SAWED JOINTS IN SLAB SHALL BE MADE INAL SLAB FINISHING, OR EARLIER IF CONCRETE STRENGTH PERMITS. NERALLY BE LOCATED AT COLUMN CENTERLINES, WHEN POSSIBLE. OTED ON PLANS, THE MAXIMUM JOINT SPACING SHALL COMPLY WITH

FOR ALL PIPING LOCATIONS AND PENETRATIONS THROUGH FLOOR

IED TO FLOW TO FLOOR DRAINS WHERE THEY OCCUR 1/8" PER FOOT

S SHALL BE PROTECTED FROM COLD WEATHER IN ACCORDANCE

ID BREAK BETWEEN CONCRETE SLAB EDGE & VERTICAL CONCRETE RFACES AT INSIDE OF BUILDING.

E 1/2" THICK EXPANSION JOINT MATERIAL WHERE CONCRETE SLAB ACES AT BUILDING EXTERIOR. SEE ARCHITECTURAL PLANS FOR N REQUIREMENTS AT EDGE OF CONCRETE SLAB.

TION, CONCRETE CAN BE NON-AIR ENTRAINED FOR INTERIOR SLABS, IS PROTECTED FROM COLD WEATHER.

CE CONCRETE:

ACEMENT SHALL BE IN ACCORDANCE WITH ACI 318, ACI 301, AND THE ONS, EXCEPT AS MODIFIED BELOW. PROTECT ALL CONCRETE IN CI STANDARDS FOR HOT & COLD WEATHER CONCRETING.

ONCRETE SHALL COMPLY WITH THE FOLLOWING: SSIVE STRENGTH (AT 28 DAYS) - 4,000 PSI CEMENT RATIO

- .45 (AIR ENTRAINED) - .52 (NON-AIR ENTRAINED) - 3/4"(TYPICAL) - 1 1/2" (FOOTINGS GREATER THAN 12" THICK) - 6%±1 1/2% (3/4" AGGREGATE) - 5%±1 1/2% (1 1/2" AGGREGATE) - 3" (TYPICAL) - 4" (FLOOR ŚLAB)

S: PROVIDE DEFORMED BARS COMPLYING WITH ASTM A615 GRADE 60. RIC: ASTM A185, COLD DRAWN STEEL PLAIN. /ITHOUT REVIEW FROM ENGINEER. ADMIXTURES CONTAINING NOT BE USED.

BE AIR ENTRAINED (U.N.O.). FOOTINGS BELOW THE FROST DEPTH LINE ETE PROTECTED FROM FREEZING & ENVIRONMENTAL EFFECTS MAY D, AT CONTRACTOR'S OPTION.

E FOR REINFORCING (U.N.O.): RETE IN CONTACT WITH EARTH = 3" TE IN CONTACT WITH EARTH = 2" = 1 1/2"

THE FOLLOWING BAR DIAMETERS UNLESS NOTED OTHERWISE ON PLICES AT POINT OF MINIMUM STRESS. WELDED SPLICES ARE NOT FOR THAT NOTED IN 4B.

ENT	LAP LENGTH IN BAR DIAMETERS	
#6	38	
#11	48	
	T SO PLACED THAT MORE THAN 12 INCH O MENT (I.E. HORIZONTAL WALL REINFORCE	

MENT)

LAP LENGTH IN BAR DIAMETERS 50

RIC - MESH SPACE +2".

POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST TE AND SUPPORT WITH METAL CHAIRS, RUNNERS, BOLSTERS, RS, AS REQUIRED. SET WIRE TIES SO ENDS ARE DIRECTED INTO ARD EXPOSED CONCRETE SURFACES.

62

S: AT ALL RE-ENTRANT CORNERS IN SLABS, WALLS AND TOPPING, THE INSTALL TWO (2) #3x3'-0" LONG, EACH MAT, AT 3-INCH O.C. R BARS TO MATCH AND LAP HORIZONTAL BARS AT CORNERS AND

ALLS AND FOOTING. SAME SIZE AND SPACING AS VERTICAL WALL OR COLUMN

TANDARD HOOKS, AT THE FOUNDATION (U.N.O.).

P OF ALL CONCRETE = 2'-0". BE PLACED ON A FROST-FREE SUBGRADE

ATE ALL CONCRETE.

IAMFER ON ALL EXPOSED CORNERS OF CONCRETE, UNLESS NT TO GRATING.

NCRETE SHALL BE PROTECTED AGAINST RAPID DRYING AND MUST BE IIMUM OF (7) DAYS FOR NOMINAL CONCRETE.

HALL PASS BETWEEN POURING ADJACENT CONCRETE SECTIONS TION JOINTS. TS SHALL BE PROVIDED AT A MAXIMUM OF 40'-0"o.c. (U.N.O.).

CASED WITHIN OR PASSING THROUGH CONCRETE SHALL COMPLY TAILS, AND THE FOLLOWING CRITERIA: F 2" OF CONCRETE CLEAR COVER.

ERE WITH OR DISPLACE REINFORCING BARS, UNLESS SPECIFICALLY

THREE PIPE DIAMETERS AWAY FROM ADJACENT PIPES, UNLESS

AILED OTHERWISE. JIT SHALL NOT BE ENCASED IN CONCRETE.

MS, AN ADDITIONAL STIRRUP SHALL BE PROVIDED AT EACH SIDE OF

IS FOR SLUMP, AIR CONTENT, YIELD AND STRENGTH SHALL BE TIFIED CONCRETE TECHNICIAN IN ACCORDANCE WITH ACI 301. TESTS TO ENGINEER FOR REVIEW.

CONCRETE MASONRY UNITS:

1. COMPLY WITH RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA), NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA), AND ACI 530. PROTECT ALL MASONRY IN ACCORDANCE WITH ACI STANDARDS FOR HOT & COLD WEATHER CONSTRUCTION.

- 2. MASONRY SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS: A. BLOCK COMPRESSIVE STRENGTH - 3,000 PSI
- B. GROUT C. MORTAR
- . MORTAR - TYPE M = 2,000 PSI BELOW GRADE . REINFORCING BARS - ASTM A615 GRADE 60 F. ASSEMBLY COMPRESSIVE STRENGTH - 2,000 PSI (f'm)

- 2,000 PSI

- TYPE S = 2,000 PSI ABOVE GRADE

- 3. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
- 4. SPECIAL SHAPES: PROVIDE SPECIAL BLOCK TYPES WHERE REQUIRED FOR CORNERS, CONTROL JOINTS, HEADERS, LINTELS AND OTHER SPECIAL CONDITIONS.
- 5. ALL MASONRY SHALL BE LAID PLUMB, TRUE TO LINE, AND WITH LEVEL COURSES. LAY IN RUNNING BOND, OVERLAY CORNER BLOCK UNITS.
- 6. CONTRACTOR SHALL DESIGN TEMPORARY BRACING AS REQUIRED TO STABILIZE MASONRY WALLS UNTIL PERMANENT SUPPORTS ARE INSTALLED.
- 7. SEE PLANS FOR VERTICAL MASONRY CONTROL JOINT LOCATIONS.
- GUIDELINES: LOCATE FIRST JOINT 10'-0" FROM EACH CORNER AND 24'-0" MAX. SPACING ON CENTER BETWEEN JOINTS. DO NOT LOCATE JOINTS WITHIN 1'-4" OF WINDOWS OR DOORS. 8. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS = 4'-0".
- MAXIMUM GROUT LIFT WITH CLEAN-OUTS = 8'-0".
- 9. FULL MORTAR BED JOINTS ARE REQUIRED, TYPICAL.
- 10. ALL VERTICAL REINFORCING SHALL BE CONTINUOUSLY GROUTED IN CELLS.
- 11. PLACE HOOKED DOWELS AT ALL VERTICAL MASONRY REINFORCING LOCATIONS INTO FOUNDATION SYSTEM.
- 12. DOOR AND WINDOW JAMBS SHALL BE SOLID GROUTED 8" MINIMUM WIDTH (U.N.O.).
- 13. BOND BEAMS AND PILASTERS SHALL HAVE REINFORCEMENT AS INDICATED ON DRAWINGS, AND SHALL BE SOLID GROUTED.
- 14. BELOW STEEL BEAM BEARING LOCATIONS, MASONRY SHALL BE SOLID GROUTED TO A MINIMUM OF 16" DEEP BY 32" WIDE (U.N.O.).
- 15. LAP SPLICES IN MASONRY 48 BAR DIAMETERS.
- 16. JOINT REINFORCEMENT NEW MASONRY WALLS TO BE REINFORCED WITH 9 GAUGE DUR-O-WAL EVERY OTHER BLOCK COURSE.
- 17. ON EXTERIOR WALLS, PROVIDE WEEP HOLES TO THE EXTERIOR ABOVE LINTELS AND AT BOTTOM OF WALL.
- 18. SEE ARCHITECTURAL PLANS FOR REQUIRED FIRE RATINGS.
- 19. SEE ELECTRICAL PLANS TO LOCATE ANY ELECTRICAL CONDUIT TO BE INSTALLED IN MASONRY CORE.

STRUCTURAL STEEL

GROUT

- 1. ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO ANSI/AISC 360 AND AISC 303.
- 2. STRUCTURAL STEEL SHALL MEET THE FOLLOWING MINIMUM YIELD STRENGTHS AND SPECIFICATIONS.
 - STEEL SHAPES ASTM A992 ASTM A36 ANGLES & RODS BARS & PLATES ASTM A36 STRUCTURAL TUBES ASTM A500 GRADE B ANCHOR BOLTS F1554 GRADE 36 STRUCTURAL BOLTS ASTM A325 TYPE N E70 XX
 - WELDS ASTM C1107, GRADE B, PREMIXED NON-SHRINK, NON-METALLIC CEMENTITIOUS GROUT. MINIMUM COMPRESSIVE STRENGTH 7000 PSI.
- 3. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. CODE FOR WELDING IN BUILDING CONSTRUCTION. SURFACES FOR FIELD WELDED MATERIAL SHALL BE PROPERLY PREPARED PRIOR TO BEING WELDED TO ASSURE A GOOD QUALITY WELD. REMOVE PAINT, GREASE, DIRT, ETC.
- 4. THE FABRICATOR SHALL BE RESPONSIBLE FOR THE DESIGN AND ADEQUACY OF ALL CONNECTIONS THAT ARE NOT DESIGNED AND FULLY DETAILED ON THE CONTRACT DOCUMENTS. CONNECTIONS SHALL BE DESIGNED AND DETAILED IN ACCORDANCE WITH ANSI/AISC 360. BEAM CONNECTIONS SHALL BE "SIMPLE FRAMING" TYPE N (UNLESS NOTED OTHERWISE).
- 5. ERECTION: COMPLY WITH AISC CODE AND SPECIFICATIONS. THE ERECTOR SHALL FURNISH AND INSTALL TEMPORARY SUPPORTS TO SECURE ANY ELEMENT OR ELEMENTS OF THE STEEL FRAMING UNTIL THEY ARE MADE STABLE WITHOUT EXTERNAL SUPPORT.
- 6. PROVIDE ALL LOOSE LINTELS AND MISCELLANEOUS STRUCTURAL STEEL AS SHOWN ON DRAWINGS.
- 7. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ADDITIONAL MISCELLANEOUS STEEL MEMBERS.
- 8. DO NOT PRIME SURFACES THAT WILL BE FIELD WELDED.
- 9. SEE SPECIFICATIONS MANUAL FOR REQUIRED STEEL SURFACE PREPARATION AND PAINT REQUIREMENTS.

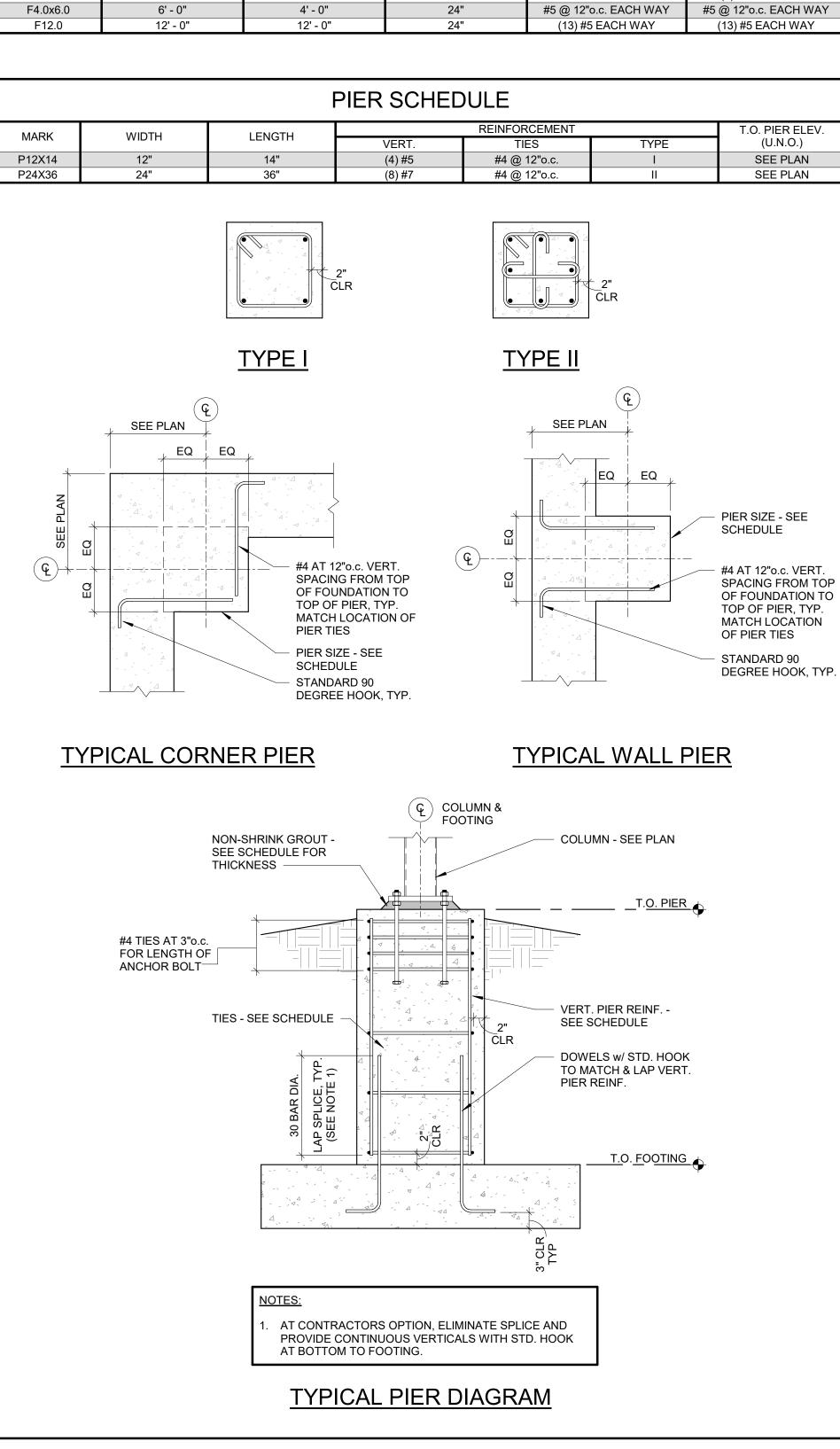
STEEL COATINGS:

- 1. AS A MINIMUM, THE FABRICATOR SHALL PREPARE STEEL SURFACES TO MEET THE REQUIREMENTS OF SSPC-SP2 (HAND TOOL CLEANING). SHOP PRIME STRUCTURAL STEEL
- MEMBERS WITH STANDARD SHOP PRIMER. 2. TOUCH-UP PRIME PAINT AFTER ERECTION. USE SAME SURFACE PREPARATION AND PRIMER
- AS USED IN SHOP. 3. ALL EXTERIOR EXPOSED STEEL, INCLUDING MASONRY SHELF ANGLES, SHALL BE GALVANIZED. MINIMUM THICKNESS OF GALVANIZING SHALL BE G90 PER ASTM A653.

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		FOOTIN	NG SCHEDULE	-
		FOOTING SIZE		
MARK	LENGTH	WIDTH	THICKNESS	
F3.0	3' - 0"	3' - 0"	12"	
F4.0	4' - 0"	4' - 0"	12"	
F4.0x6.0	6' - 0"	4' - 0"	24"	:
F12.0	12' - 0"	12' - 0"	24"	



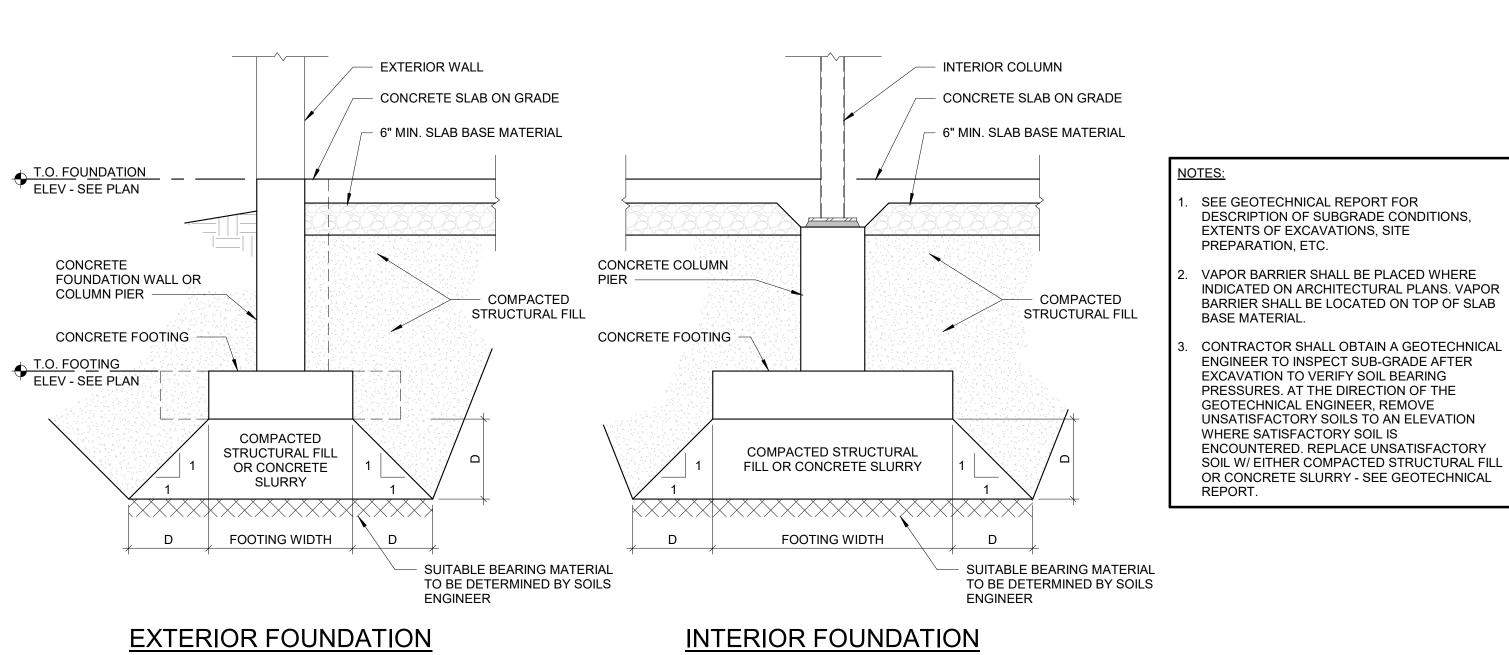
TOP REINFORCEMENT

#5 @ 12"o.c. EACH WAY (13) #5 EACH WAY

BOTTOM REINFORCEMEN

(4) #4 EACH WAY

(4) #5 EACH WAY

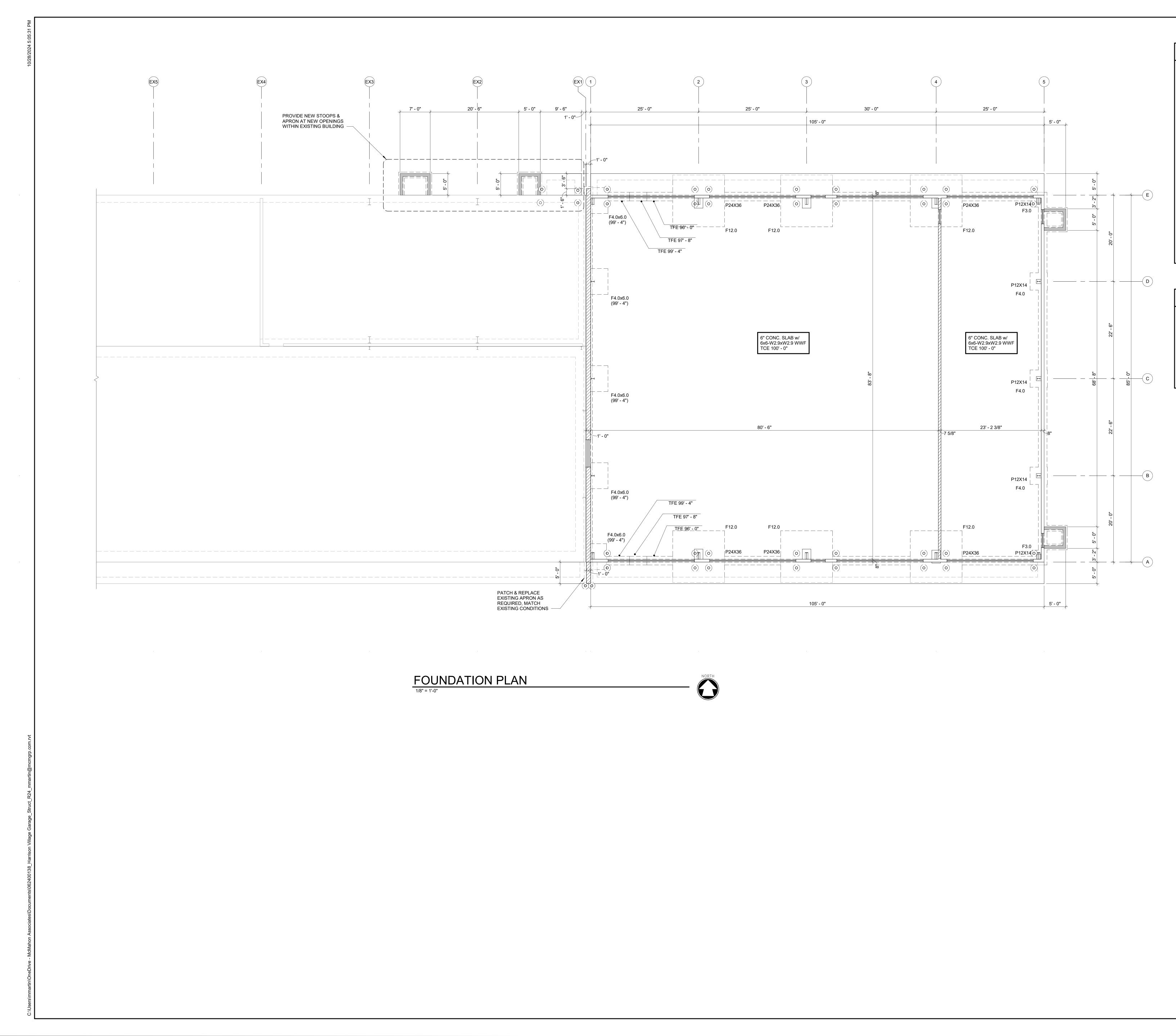


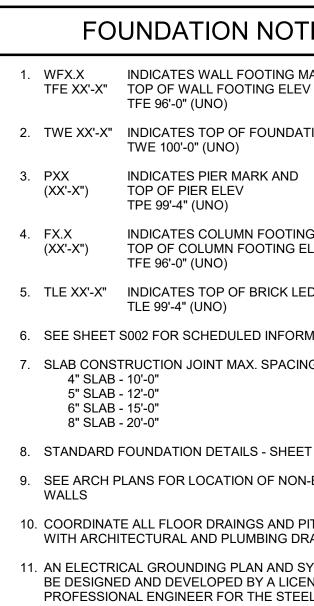
SUBGRADE PREPARATION

	STRUCTURAL ABE	BREVI	ATIONS				
ALT ARCH BRG CJ CLR CONC CONN CONT DBE DBL DET DIA ELEV EOS EX FND FT GA GALV HORIZ IMP JBE	ALTERNATE ARCHITECTURAL BEARING BOTTOM CONTROL JOINT CLEAR CONCRETE MASONRY UNIT CONCRETE MASONRY UNIT CONCRETE CONNECTION CONTINUOUS DECK BEARING ELEVATION DOUBLE DETAIL DIAMETER EACH ELEVATION EDGE OF STRUCTURE EXISTING EXPANSION FOUNDATION FEET FOOTING GAGE GALVANIZED HORIZONTAL INSULATED METAL PANEL JOIST BEARING ELEVATION	LBS LLH LLV MANUF MAX MIN PBE REINF REQD SCH SF SFR SJ STD STRUC TBE TCE TFE TLE TFE TLE TFE TVE TYP UNO VERT WP WWF	POUNDS LONG LEG HORIZONTAL LONG LEG VERTICAL MANUFACTURER MAXIMUM MINIMUM PRECAST BEARING ELEVATION REINFORCEMENT REQUIRED SCHEDULE STEP FOOTING SYNTHETIC FIBER REINF SAWCUT JOINT STANDARD STRUCTURAL TOP OF BEAM ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF FOOTING ELEVATION TOP OF PIER ELEVATION TOP OF STEEL ELEVATION TOP OF STEEL ELEVATION TOP OF WALL ELEVATION TOP OF WALL ELEVATION TYPICAL UNLESS NOTED OTHERWISE VERTICAL WORKING POINT WELDED WIRE FABRIC				

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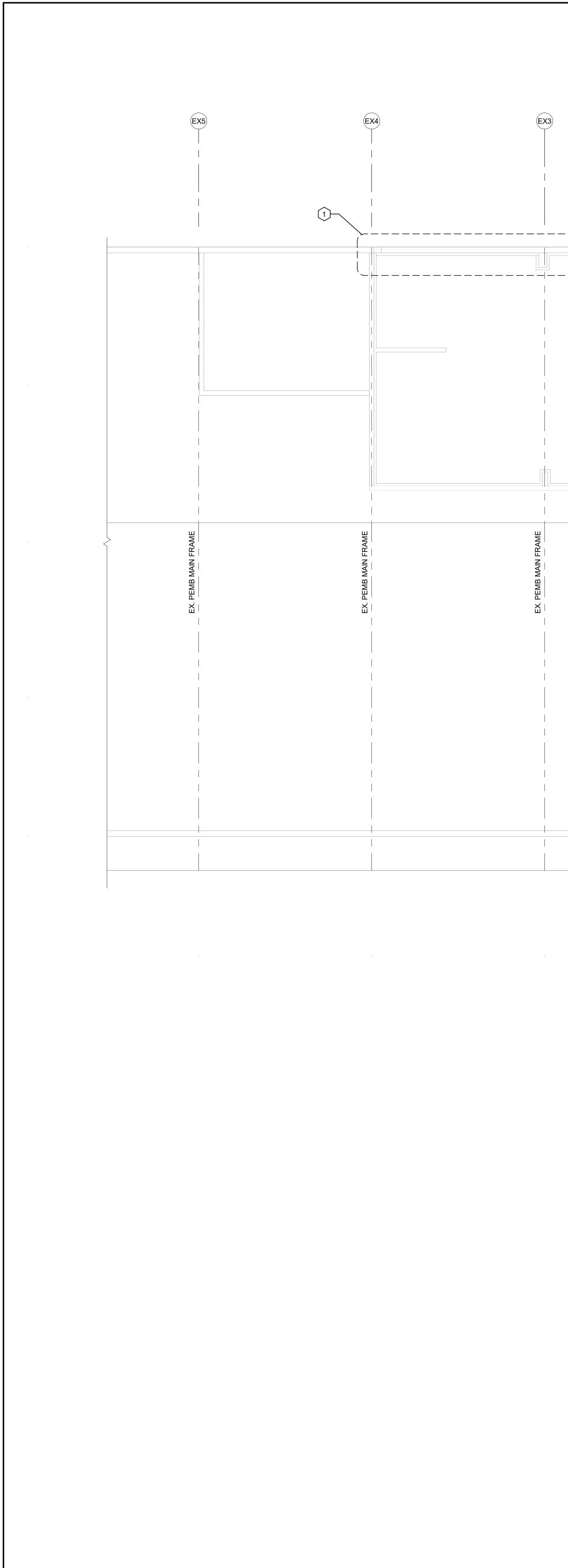
				1445 McMAHON ASSOCIATES, INC. 1445 McMAHON DRIVE NEENAH, WI 54956	Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025 Tel· (920) 751-4200	www.mcmgrp.com
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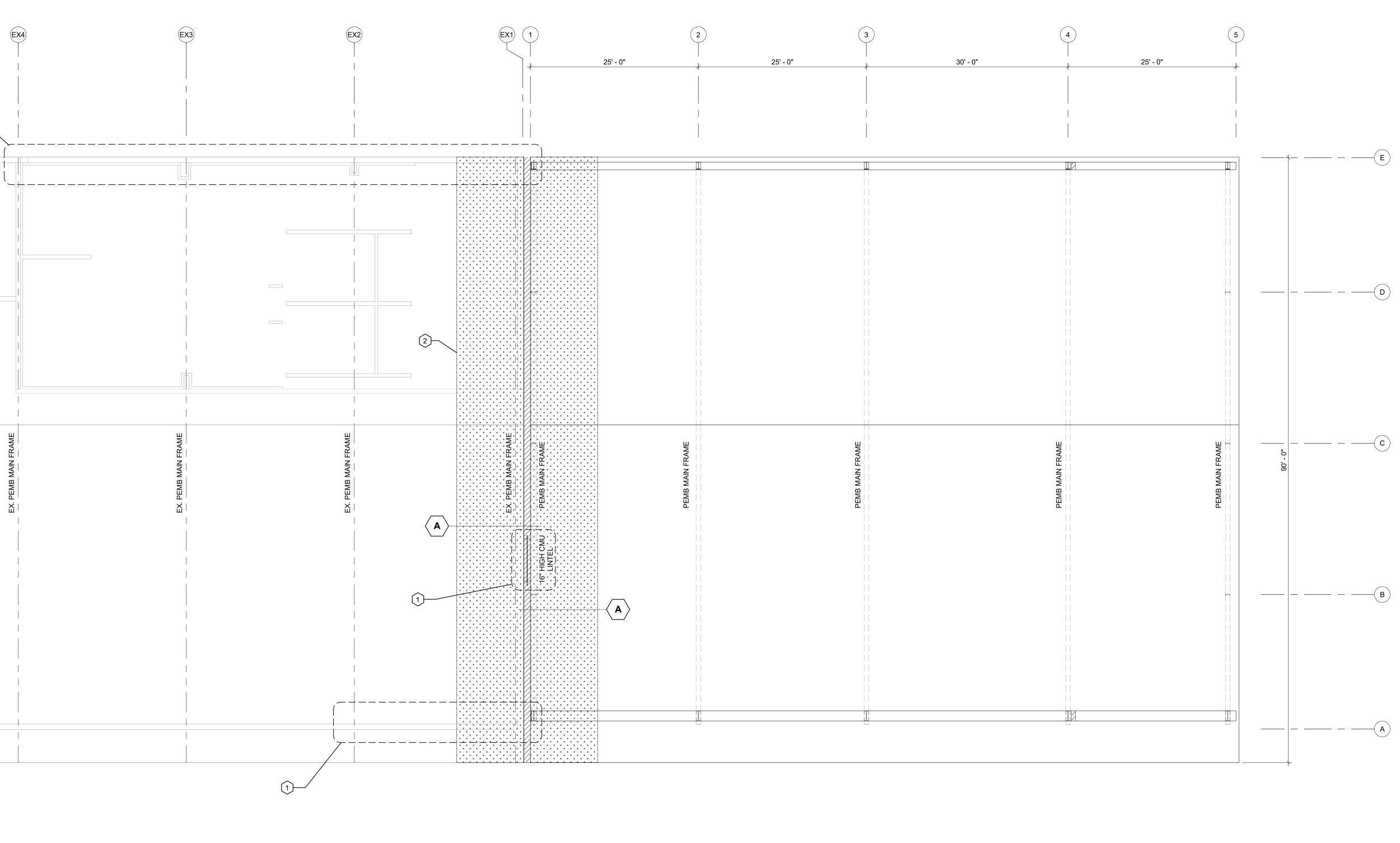




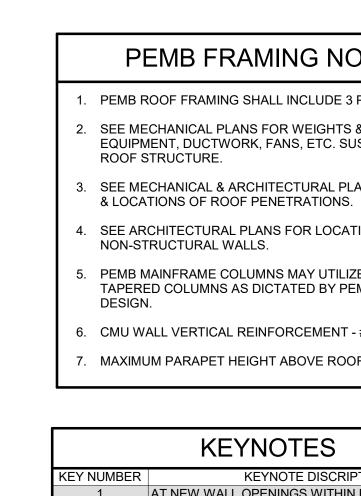
PEMB FOUNDATION N 1. CONTRACTOR TO VERIFY ALL DIMENSIONS BUILDING ANCHOR BOLT PLAN. NOTIFY EN DIMENSIONAL DISCREPANCIES. 2. CONTRACTOR TO VERIFY ALL TOP OF PIER METAL BUILDING ANCHOR BOLT DETAILS. ENGINEER OF ANY DISCREPANCIES. 3. ALL CONSTRUCTION COSTS ASSOCIATED OR CORRECTIVE MEASURES AS A RESULT SIZE, LOCATION, OR ELEVATIONS OF COLU

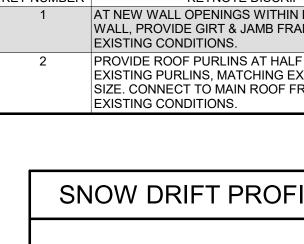
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 6. S 7. S 8. S 9. S V 10. C V 11. A E 	SLAB CONST 4" SLAB - 5" SLAB - 6" SLAB - 8" SLAB - 8" SLAB - STANDARD F SEE ARCH P VALLS COORDINATI VITH ARCHI AN ELECTRIC 3E DESIGNE	12'-0" 15'-0"	LL	McMahon Associates, Inc. provides thisdrawing and data, regardless of form;as instruments of service. All rightsincluding copyrights are retained byMcMahon Associates, Inc. The clientand/or recipient agrees to the fullestextent permitted by law to indemnify and	hold McMahon Associates, Inc. harmless for any reuse of or changes made to the original drawing or data without prior written consent by McMahon Associates, Inc.
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			PRELIMINARY	A NEW ADDITION & RENOVATION FOR: VILLAGE OF HARRISON MENASHA, WI	FOUNDATION PLAN
				DESIGNED DJB PROJECT H0006 06-24 DATE SEPTEMBE SHEET SHEET	4-00138 E R, 2024 NO.





FRAMING PLAN





89 PSF

MB FRAMING NOTES: OF FRAMING SHALL INCLUDE 3 PSF COLLATERAL. HANICAL PLANS FOR WEIGHTS & LOCATIONS OF INT, DUCTWORK, FANS, ETC. SUSPENDED FROM RUCTURE.					N DRIVE NEENAH, WI 54956	Mailing: P.O.BOX 1025 NEENAH, WI 54957-1025 Tel: (920) 751-4200 Fax: (920) 751-4284	www.mcmgrp.com
HANICAL & ARCHITECTURAL PLANS FOR WEIGHTS ONS OF ROOF PENETRATIONS. HITECTURAL PLANS FOR LOCATIONS OF INTERIOR UCTURAL WALLS. INFRAME COLUMNS MAY UTILIZE TYPICAL O COLUMNS AS DICTATED BY PEMB ENGINEERING L VERTICAL REINFORCEMENT - #5 @ 48"o.c. I PARAPET HEIGHT ABOVE ROOF SHALL BE 3'-0"	Inc. provides this	jardless of form; ice. All rights			2	2	
KEYNOTE DISCRIPTION KEYNOTE DISCRIPTION T NEW WALL OPENINGS WITHIN EXISTING BUILDING VALL, PROVIDE GIRT & JAMB FRAMING TO MATCH XISTING CONDITIONS. ROVIDE ROOF PURLINS AT HALF SPACING OF XISTING PURLINS, MATCHING EXISTING PURLIN SIZE. CONNECT TO MAIN ROOF FRAMING SIMILAR TO XISTING CONDITIONS.	McMahon Associates, Inc. provides this	drawing and data, regardless of form, as instruments of service. All rights	including copyrights are retained by McMahon Associates, Inc. The client	and/or recipient agrees to the fullest extent nermitted by law to indemnify	hold McMahon Associates, Inc. harmless for any reuse of or changes	made to the original drawing or data without prior withen concernt by	McMahon Associates, Inc.
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