ADDENDUM NO. #2

Issue Date:	6/16/2026
Project Name:	Winnebago County Juvenile Detention Mental Health Addition
Project Address:	5350 Northrock Drive, Rockford, IL 61103
Architect:	Venture Architects 212 North 25th Street Milwaukee, WI 53233
Owner:	Shawn Franks, Director of Facilities Winnebago County Facilities 400 W. State Street Room 020 Rockford, IL 61101
Venture Project Number:	240081.01

This Addendum forms a part of the Contract Documents and modifies the original Contract Documents dated 05/18/2026 as noted below. Acknowledge receipt of this Addendum by inserting the number and issue date of this Addendum in the blank space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Construction Bulletin consists of 57 pages and 7 of attached revised sheets and 43 of revised specifications sections.

PROPOSED CHANGES / CLARIFICATION:

Clarifications/Bidder Questions:

1. Are alternates 1,2, and 4 supposed to include new vinyl base and transitions as well?
   Yes, provide new resilient base and transitions.

2. Is alternate 3 supposed to include painting of the doors and frames as well or just the walls?
   Yes, include painting of doors and frames.

3. For alternates 1, 2, and 4 is the existing flooring to be demo'ed and prepped for the new flooring? If so what is the existing flooring? Yes, include demo of existing flooring and prep for new flooring. Existing flooring is carpet.

4. What is the projected start date for the project? We need to know this for our bonding agent. Anticipated start date is July 20th, 2026.

5. What is the target budget for the project? We need to know this for our bonding agent.
   The construction budget is whatever your bid is.

6. The bid documents are contradicting. Can we turn in the subcontractor lists after award or is this to be turned in with the bid on bid due date? The Contractor will have 7 days to turn in the subcontractor list after being awarded the contract. See updated 'Advertisement for Bid', specification section 00 11 13 and 'Bid Form', specification section 00 41 00.

7. Spec section 07 53 23 - 4 Item 1.9 subsection C. Item 5 - regarding windspeed warranty coverage lists, 55,72,80,90 & 100. Which one is required? Same for Item 6 - a. Use 100 mph windspeed for warranty coverage.

8. Spec section 07 53 23 - 5 2.2 Section C item 5.a. Gypsum cover board thickness .0625" and again 07 53 23 - 7 item 2.b. Gypsum cover board thickness 0.5". Which one is it?
   No cover board is required, delete this section from the specification.

Specifications:

00 01 00 - TABLE OF CONTENTS

- UPATED: for items in construction bulletin #2.

00 11 13 – ADVERTISEMENT FOR BID

- UPDATED: section 1.4, Bidding Requirements, E, the Contractor will have 7 days to turn in subcontractor list after being awarded the contract.

00 41 00 – BID FORM

- UPDATED: under SUBCONTRACTORS, the low bidder shall have seven (7) days after notice that they are low bidder to submit subcontractor list.

00 45 10 – BIDDER'S QUALIFICATION STATEMENT

- REVISE: 7. Affidavit to read State of Illinois.

00 73 05 – SPECIAL CONDITIONS

- ADDED: section 1.13 JOB SPECIFIC REQUIREMENTS

01 23 00 - ALTERNATES

- CLARIFY: PART 3 – EXECUTION, 3.1 SCHEDULE OF ALTERNATES, F. ADD ALTERNATE NO. 6; per A901 – DOOR & FRAME SCHEDULES/TYPES, the door schedule indicates door #116 and frame is hollow metal and not detention-grade.

02 41 19 – SELECTIVE DEMOLITION

- ADDED: 3.2, PREPARATION, C Dust Barriers:, a.; Add 1/2" sheathing, on the opposite side of the construction side, on top of the 4 mil polyethylene sheet.

04 26 13 – MASONRY VENEER

- OMIT: section 2.7, ACCESSORIES, C, omit this paragraph.

07 53 23 – FULLY ADHERED EPDM ROOF SYSTEM

- UPDATED: section 1.9, WARRANTY, C, 5 and 6a; use 100 mph windspeed for warranty coverage.
- DELETE: section 2.2, ROOFING SYSTEM DESCRIPTION, B, Vapor Barrier over deck/deck cover, delete this section.
- DELETE: section 2.2, ROOFING SYSTEM DESCRIPTION, C, 5, delete cover board section.
- DELETE: 2.2 ROOFING SYSTEM DESCRIPTION, D. EPDM Membrane Materials:, 17. Yellow Safety Stripe; delete this item.
- DELETE: 2.2 ROOFING SYSTEM DESCRIPTION, E. Roof Insulation and Cover Boards, 2, Gypsum-Based Cover Board.; delete this section.
- DELETE: 2.2 ROOFING SYSTEM DESCRIPTION, F. Vapor Barrier; delete this section.

07 95 00 – EXPANSION CONTROL

- ADDED: section 2.4 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING INTERIORS, E. Floor Expansion Joint Systems: 1; add product; ENBR- Series, Erie Metal Specialties, 13311 Main Road, Akron, NY 14001 (716) 542-3991 www.eriemetal.com

- ADDED: section 2.4 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING INTERIORS, F. Wall-to-Wall Expansion Joint Systems: 1; add product; ELCWF-Series, Erie Metal Specialties, 13311 Main Road, Akron, NY 14001 (716) 542-3991 www.eriemetal.com
- ADDED: section 2.5 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING EXTERIORS, D. Wall Expansion Joint System: 1; add product; CSS-S Foam Seal System, Erie Metal Specialties, 13311 Main Road, Akron, NY 14001 (716) 542-3991 www.eriemetal.com
- ADDED: section 2.5 ARCHITECTURAL JOINT SYSTEMS FOR BUILDING EXTERIORS, D. Wall Expansion Joint System: 2; add product; EWJ-Series, Erie Metal Specialties, 13311 Main Road, Akron, NY 14001 (716) 542-3991 www.eriemetal.com

08 31 13 – DETENTION ACCESS PANEL

- ADD: add new specification section.

10 28 13 – TOILET ACCESSORIES - DETENTION

- ADDED: PART 2 – PRODUCTS, 2.1 DETENTION GRAB BARS, C. Detention Grab Bars, add product; GBFM Security Grab Bars, Claborn Manufacturing, 20865 Sandy Rd, Tanner, AL 35671 (256) 773-3017 www.claborn.com
- ADDED: PART 2 – PRODUCTS, 2.2 MISCELLANEOUS ACCESSORIES, A. Security Toilet Paper Holders:, 1.; add product; TPH-SQ641-FM Recessed Toilet Paper Holder, Claborn Manufacturing, 20865 Sandy Rd, Tanner, AL 35671 (256) 773-3017 www.claborn.com
- ADDED: PART 2 – PRODUCTS, 2.3 MIRRORS, A. Security Mirrors:, 1.; add product; DFSML1-Front Mount, Detention Grade Security Mirror, Claborn Manufacturing, 20865 Sandy Rd, Tanner, AL 35671 (256) 773-3017 www.claborn.com
- ADDED: PART 2 – PRODUCTS, 2.2 MISCELLANEOUS ACCESSORIES, B. Security Clothes Hook – Single:, 1.; add product; H1-BP Ball and Pin Single Hook, Claborn Manufacturing, 20865 Sandy Rd, Tanner, AL 35671 (256) 773-3017 www.claborn.com

11 19 00 – GENERAL REQUIREMENTS FOR DETENTION EQUIPMENT

- ADDED: section 2.4 DETENTION SPECIALISTS, A Listed Detention Specialists:; add JTA Builders, West Bend, WI to the approved detention specialists.

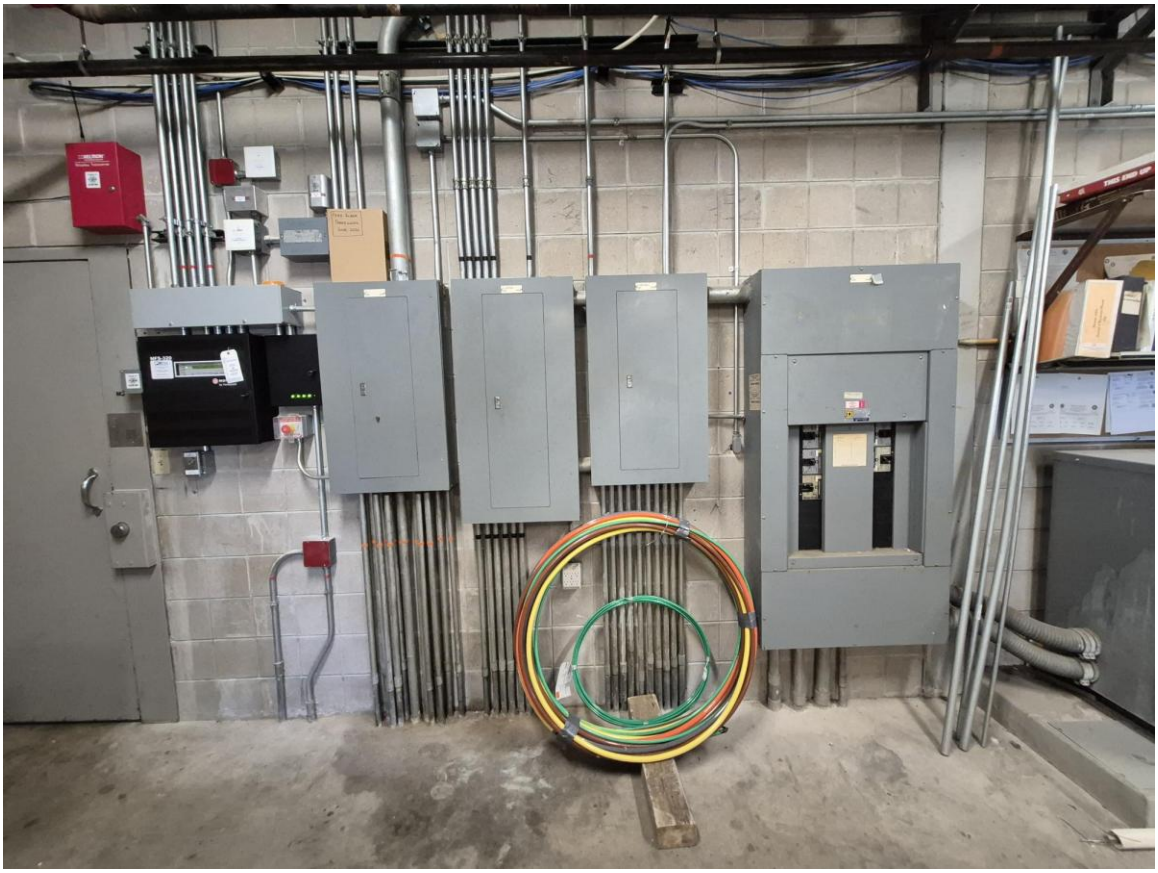
11 19 10 – DETENTION DOORS AND FRAMES

- ADDED: PART 2 – PRODUCTS, 2.2 HOLLOW METAL ASSEMBLY SUPPLIERS, A. Approved Hollow Metal Assembly Suppliers: add Habersham Metal Products

Company, 264 Stapleton Road, Cornelia, Georgia, 30531 (706) 778-2212 to the approved suppliers list.

Photo Clarification:

The two photos are of the North wall of the Mechanical Room.



Drawings:

General:

G100 – TITLE SHEET

- NOTED: revised drawings sheets for addendum 2.

Architectural:

A100 – ARCHITECTURAL SITE PLAN

- ADDED: notes pertaining to Contractor Parking.
- REVISED: note on fencing from temporary to permanent.

A101 – FIRST FLOOR PLAN AND DEMOLITION PLAN

- ADDED: floor drains to drying area in shower rooms #114 and #117.

A601 – ENLARGED PLANS – INTERIOR ELEVATIONS

- ADDED: floor drain to plan #20 - North Shower 117 Remodel.
- ADDED: floor drain to plan #21 - South Shower 114 Remodel.
- REVISED: title on plan #21 – SOUTH SHOWER 114 REMODEL.
- REVISED: title on elevation #1 – SHOWER 114 SOUTH.
- REVISED: title on elevation #2 – SHOWER 114 EAST.

Plumbing:

P100 – PLUMBING NEW WORK PLANS

- ADDED: floor drains in Showers #114 and #117.

P101 – ROOF PLUMBING NEW WORK PLAN AND PLUMBING ISOMETRICS

- ADDED: floor drain to detail #4, WASTE AND VENT PIPING ISOMETRIC – SHOWER 114.
- ADDED: floor drain to detail #6, WASTE AND VENT PIPING ISOMETRIC – SHOWER 117.

End of Addendum #2

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Juvenile Mental Health Addition
5350 Northrock Drive, Rockford, IL 61103

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SECTION TITLE

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DOCUMENT 00 41 00 - BID FORM

WINNEBAGO COUNTY
JUVENILE DETENTION FACILITY MENTAL HEALTH SUITE ADDITION
5350 NORTHROCK DRIVE, ROCKFORD, IL 61103
BID # 26B-2470

_____, 2026
(Date)

To: Winnebago County – Purchasing Department
404 Elm Street, Room 202
Rockford, Illinois 61101
Attn: Hope Edwards, Purchasing Director

From: _____
(Name)
_____
(Address)

(If addendum numbers are not filled in, it will be assumed that if an addendum was issued, it was not received and therefore the bid will be rejected as nonresponsive.)

Having carefully examined the Instructions to Bidders, General and Supplementary Conditions of the Contract, the Specifications, including Addenda Nos._____to_____inclusive, (receipt of which is hereby acknowledged) and the Drawings and having visited the site and examined all conditions affecting the work, the Undersigned proposes to furnish all labor and materials called for by the said Documents for the construction of a building addition and new mental health suite at the Winnebago County Juvenile Detention Center located at 5350 Northrock Drive, Rockford, IL 61103 for the sum constituting:

BASE BID:

ALL LABOR AND MISCELLANEOUS PRODUCTS, MATERIALS, EQUIPMENT AND APPLIANCES NECESSARY TO COMPLETE ALL THE WORK AS DESCRIBED IN DIVISIONS 00 THROUGH 33.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

$_____
Written Words

$_____
Numeric Amount

ADD ALTERNATE BID No.1:

PROVIDE AN ALTERNATE PRICE FOR NEW CPT-1 IN OFFICE SOUTH OF CONFERENCE 116.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

_____
Written Words

$_____
Numeric Amount

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ADD ALTERNATE BID No.2:

PROVIDE AN ALTERNATE PRICE FOR NEW CPT-1 IN ACTIVITY AREA AND (2) TWO CORRESPONDING HALLS.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

_____
Written Words

$_____
Numeric Amount

ADD ALTERNATE BID No.3:

PROVIDE AN ALTERNATE PRICE FOR NEW P-1 IN ACTIVITY AREA AND (2) TWO CORRESPONDING HALLS.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

_____
Written Words

$_____
Numeric Amount

ADD ALTERNATE BID No.4:

PROVIDE AN ALTERNATE PRICE FOR NEW LVT-1 IN (2) TWO HALLS NORTH AND EAST OF QUIET ROOM.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

_____
Written Words

$_____
Numeric Amount

ADD ALTERNATE BID No.5:

PROVIDE A PRICE TO BE ADDED TO THE BASE BID TO FURNISH AND INSTALL A BUS SHELTER AS SPECIFIED AND TO CONSTRUCT AN ASSOCIATED SIDEWALK PATH.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

_____
Written Words

$_____
Numeric Amount

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ADD ALTERNATE BID No.6:

PROVIDE AN ALTERNATE PRICE TO BE ADDED TO THE BASE BID TO DEMO PORTIONS OF THE EXISTING DINING ROOM CEILING AND PROVIDE A NEW HOLLOW METAL WINDOW PARTITION WITH TYPE 4A SECURITY GLAZING. HOLLOW METAL FRAMES TO BE PAINTED WITH EPOXY COATING TO MATCH DOOR 116.1.

COST COMPLETE FOR THE LUMP SUM PRICE OF:

_____
Written Words

$_____
Numeric Amount

SUBSTITUTE BIDS

These Bids are to be used for consideration by the Owner for substitutes for materials, products, equipment and appliances specified, subject to requirements set forth in the Instructions to Bidders.

Substitute Bid (A) - For Substituting:
(ADD) or (DEDUCT)

$_____
Written Words

$_____
Numeric Amount

Specified Manufacturer's Name: _____

Specified Product Name: _____

Substitute's Manufacturer's Name: _____

Substitute Product Name _____

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COMPLETION OF WORK

Bidder agrees that, if awarded contract, project will be completed as follows:

Start Date: _____, 2026

Completion of Work: April 15th, 2027.

SUBCONTRACTORS

Bidder agrees to furnish complete list of Subcontractors within seven (7) days after notification that they are low bidder and that they will not subcontract any work, except as noted in list or as permitted by Change Order.

BID GUARANTEE

Accompanying this Proposal is a (Certified Check) (Bid Bond) (Bank Draft) in the amount of not less than five percent (5%) of the total bid:

$_____
Written Words

$_____
Numeric Amount

payable to _____ of_____, IL. which will be forfeited if the Undersigned fails to enter into Contract for the Project.

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SURETY BOND

The Undersigned agrees, if awarded the Contract, to furnish and deliver to Owner, within ten (10) days after signing of the Contract, an approved Corporate Surety Bond equal to the Contract Sum, as specified in the General Conditions under Paragraph 11.4.

I hereby certify that all statements made herein are made on behalf of

_____

(Name of Corporation, Partnership or Person submitting bid)

A corporation organized and existing under the laws of the State of

_____

A partnership consisting of_____

An individual trading at_____

of the City of_____State of_____

that I have examined and carefully prepared this Bid Form from the Drawings and Specifications and checked same in detail before submitting proposal and that said statements are true and correct.

Signature_____

(Seal)

Printed Name_____

Title_____

Sworn and subscribed before me this_____day of_____, 2026

Notary Public_____

(Seal)

County_____

My Commission expires_____

END OF DOCUMENT

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DOCUMENT 00 45 10

BIDDER'S QUALIFICATION STATEMENT

Bidders may submit their own sworn statement in lieu of this form, provided it contains all of the information requested in this form. Inadequate statements may be rejected by the Owner. Attach additional sheets as necessary to include all requested information.

1. IDENTIFICATION

A. Company Name:_____

B. Telephone No.:_____

C. Fax No.:_____

D. Contact E-Mail:_____

E. Company Website Address:_____

F. Mailing Address:_____

G. Number of years in business (Under present Company Name):_____

H. Classification of Work for which Company is seeking Qualification:_____

I. Company is a: (Please circle one)

(Corporation) (Limited-Liability Company) (Partnership) (Sole Proprietorship).

J. Provide listing of Principal Officers, Members or Partners: (Attach to this form).

2. EXPERIENCE

A. Experience with Similar Projects for at least the past 5 years with the following information (Provide 3 Similar Projects):

Project One:

Date:_____

Owner:_____

Amount of Contract:_____

Nature of Work:_____

Project Two:

Date:_____

Owner:_____

Amount of Contract:_____

Nature of Work:_____

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Project Three:

Date:_____

Owner:_____

Amount of Contract:_____

Nature of Work:_____

B. Experience of Principal Individuals in Organization: (Provide Two Names)

Individual's Name(s):_____

Present Position or Office:_____

Years of Experience:_____

Individual's Name(s):_____

Present Position or Office:_____

Years of Experience:_____

3. CONTRACTUAL RESPONSIBILITY

A. Has the Company ever failed in the past ten (10) years to complete on-time work awarded to it?

Project One:

Date:_____

Owner:_____

Owner's mailing address:_____

Describe circumstances for situation:

_____

_____

_____

Project Two:

Date:_____

Owner:_____

Owner's mailing address:_____

Describe circumstances for situation:

_____

_____

_____

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B. Has any officer or partner of firm ever failed in the past 10 years to complete on-time a construction contract handled in his or her own name?

Date:_____

Name of officer or partner:_____

Owner:_____

Owner's mailing address:_____

Describe circumstances for situation:

_____

_____

_____

C. Has any officer or partner of firm ever been an officer or partner of some other Company during the past 10 years that failed to complete a contract on time?

Date:_____

Name of officer or partner:_____

Owner:_____

Owner's mailing address:_____

Describe circumstances for situation:

_____

_____

_____

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4. SURETIES

A. Name and address of bonding companies which will act as sureties for Bid Bonds, Performance Bonds, and Payment Bonds:

_____

_____

B. Names and addresses of all bonding companies other than those listed in A. above which have acted as sureties for your firm during the last 5 years:

_____

_____

C. Has any bonding company ever taken over a contract or made any payments because of firm's failure to carry out a contract? (Yes) (No)

Date:_____

Name of Bonding Company:

_____

Bonding Company's Address:

_____

Describe circumstances for each instance:

_____

_____

5. BIDDER'S FINANCIAL STATEMENT

A. Attach the most-recent balance sheet and year-end profit and loss statement for the firm.

B. Who prepared the balance sheet and profit and loss statement?

C. Has the firm ever filed a petition in bankruptcy or filed for financial relief? If yes, give the case numbers for each such filing, and the identity of the courts in which they were filed._____

6. PROJECT REVIEW

A. Have you read each of the provisions of the Contract Documents? Yes or No

B. Have you reviewed the Project Drawings and Specifications? Yes or No

C. Have you examined the Worksite? Yes or No

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7. AFFIDAVIT

STATE OF ILLINOIS

} SS

_____ County

_____ being duly sworn, deposes and says that he or she is
(Name)

the _____ of the Company identified in Section 1, above; that the answers to the foregoing questions are true and correct, and that any Owner, Bonding Company, or other agency herein named is hereby authorized to supply the Owner with any information deemed necessary to verify this statement.

Subscribed and sworn to before me

This _____day of _____, 20_____

_____ Notary Public

_____County, Illinois {SEAL and SIGNATURE}

My Commission Expires: _____, _____ (is permanent)

END OF DOCUMENT

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DOCUMENT 00 73 05

SPECIAL CONDITIONS

PART 1 - GENERAL

1.1 DESCRIPTION

A. These Supplementary Conditions are hereby made a part of every section in this specification and shall be binding upon every Contractor, Sub Contractor and material supplier.

B. SUMMARY

1. Index:
   a. Description
   b. Commencement and Completion
   c. Liquidated Damages
   d. Cooperation
   e. Priority
   f. Cooperation with Public Service Companies
   g. Measurements
   h. Substitute Materials
   i. Design Clarifications
   j. Warranty
   k. Asbestos
   l. Non Discrimination in Employment
   m. Job Specific Requirements

1.2 COMMENCEMENT AND COMPLETION

A. Successful bidder must agree to commence work within five (5) days of date specified in a written Notice to Proceed and fully complete Project on date indicated in this Manual.

B. Should it be found impossible to complete Work on or before time specified for completion, a written request may be submitted for extension of time setting forth reasons believed to justify granting of such request. If Owner finds that Work was delayed because of conditions beyond control of Contractor, or that quantities of work done or to be done are in excess of estimated quantities by an amount sufficient to warrant additional time, Owner may grant an extension of time for completion as appears reasonable and proper. Extended time for completion shall then be considered as in full force and effect, as if it were original time for completion.

C. Permitting Work or any part of it to continue after time fixed for its completion, or after date to which time for completion may have been extended, shall in no way operate as a waiver on part of Owner or any of Owner's rights under Contract.

1.3 LIQUIDATED DAMAGES

A. Each Contractor shall pay amount of liquidated damages specified in Contract for each day of delay solely attributable to Contractor. If it is determined that more than one (1) Contractor is responsible for delay or delays, then amount for each delay caused by more than one (1) Contractor shall be pro rated among all such defaulting Contractors. Liquidated Damages amount will be $1,000.00 per day.

B. If said Contractors shall neglect, fail or refuse to complete Work within time herein specified, then Contractor does hereby agree, as a part of consideration for awarding of this Contract, to pay to Owner amount of Dollars per day, not as a penalty but as liquidated damages for such breach of Contract as hereinafter set forth, for each calendar day that Contractor shall be in default after time stipulated in Contract for completing work.

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C. Because of impracticability and extreme difficulty of fixing and ascertaining actual damages Owner would sustain, in such event, said amount is fixed and agreed upon by and between Contractor and Owner as amount of damages Owner would sustain.

D. It is further agreed that time is of the essence in this Contract wherein a definite and certain length of time is allowed for completion of Work. If additional time is allowed for completion of Work, new time limit fixed by such extension shall be of the essence of this Contract, provided that Contractors shall not be charged with liquidated damages or any excess cost when delay in completion of Work is due to:
   1. Any preference, priority or allocation order duly issued by government.
   2. Unforeseeable cause beyond control and without fault or negligence of Contractors, including, but not restricted to, Acts of God or public enemy, acts of Owner, acts of another Contractor in performance of a Contract with Owner, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes and unusually severe weather.
   3. Any delays of Sub Contractors or supplies occasioned by any of causes specified in Subsections "1" and "2" of this article, provided, further, that Contractors shall, within seven (7) days from beginning of such delay, notify Owner, in writing, of causes of delay, who shall ascertain facts and extent of delay and notify Contractor within a reasonable time of a decision in matter.

E. If Contractor finds it is impossible to complete Work on or before time specified for completion, written request may be made for extension of time. Contractor shall set forth fully in request reasons Contractor believes justify granting of Contractor's request. If Owner finds that Work was delayed because of conditions beyond control of Contractor, or that quantities of work done or to be done are in excess of estimated quantities by an amount sufficient to warrant additional time, Owner may grant an extension of time for completion as appears reasonable and proper. Extended time for completion shall then be considered as in full force and effect as if it were original time for completion.

F. Should Contractor fail to complete Work within time agreed upon or within such extra time as may be allowed by extensions, there shall be deducted from any monies due or that may become due Contractor sum of damage sustained until work is completed. This sum shall be considered and treated not as penalty but as agreed as liquidated damages due Owner from Contractor by reason of inconvenience to Owner, added cost to engineering and supervision and other items such as rent, interest, and services which have caused an expenditure of funds resulting from Contractor's failure to complete the work within the time specified.

1.4 COOPERATION

A. General Contractor and all Sub Contractors shall coordinate their work with all adjacent work and shall cooperate with all other trades so as to facilitate general progress of Work. Each trade shall afford all other trades every reasonable opportunity for installation of their work and storage of their material.

B. Inasmuch as building completion within time limit is dependent upon cooperation of those engaged therein, it is required that each Contractor lay out and install their work at a time and in such a manner not to delay or interfere with progress of other Contractors' work.

C. If any Contractor's work is delayed due to lack of storage facilities or non cooperation of other Contractors, Contractor shall immediately notify Architect in writing who will then notify Contractors involved of their obligation under this Article.

1.5 PRIORITY

A. In case of close quarters for installation of piping systems and in absence of instructions to contrary, following order of priority shall be followed:
   1. Lighting fixtures:
   2. Sheet metal ductwork
   3. Plumbing work;
   4. Mechanical work, including heating and air conditioning
   5. Piping
   6. Electrical work

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7. Control systems

B. The above list, in descending order, is the precedence assigned the work items for space priority. Recessed light fixtures and space for their installation has first priority, sheet metal ductwork second priority, etc

1.6 COOPERATION WITH PUBLIC SERVICE COMPANIES

A. When performing Work near public service lines, cables or pipes, Contractor shall notify companies owning same so that they may cooperate to avoid damage or accidents.

1.7 MEASUREMENT

A. Before ordering materials or doing any work, each Contractor shall verify all measurements at building and shall be responsible for their correctness. No extra compensation will be allowed because of difference between actual dimensions and those indicated on Drawings. Any discovered difference which may be found shall be reported to Architect for consideration before proceeding with Work.

1.8 SUBSTITUTE MATERIALS

A. If Contractor so desires, Contractor may bid on materials other than those specified or those approved during the bidding process; in which case, Contractor will indicate, in the space provided for Substitute Bids on the Bid Form, the additions or deductions involved if the proposed substitute were to be used, name of manufacturer and type or brand of material or equipment. However, such substitutes shall not be considered in determination of low bidder. Materials or equipment must meet all requirements as to type, quality, function, design, appearance, color, texture and physical dimensions shown. Materials and equipment not meeting above requirements cannot be considered equal substitutes.

B. If no substitutes are given or accepted, then one of the specified products or products approved during the bidding process must be installed.

C. Where more than one (1) manufacturer's product is listed, listing is not necessarily in order of preference, and all shall be considered as equally acceptable.

D. Substitute materials will not be considered after contracts have been signed.

1.9 DESIGN CLARIFICATIONS

A. The Drawings and Specifications are representative and typical of the quality and type of construction for the Project.

B. During the bidding process the Contractor shall assume the same quality and level of detail in areas of the building not specifically shown or detailed.

C. The Contractor shall provide a complete and functional building and complete and functional building systems whether or not fully specified or detailed. If questions arise during construction relating to items not detailed on the architectural or engineering drawings, the Contractor shall submit a "Design Clarifications" document (drawing or statement) illustrating what the Contractor had anticipated in their bid for this particular detail. The "Design Clarification" shall be submitted to the Architect for review.

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1.10 WARRANTY (See Article 3.5 of General Conditions)

A. Contractor shall and hereby does warrant all work and materials called for in this specification, including all work performed by Sub Contractors, for a period of one (1) year from date of final completion of project.

B. In case of work performed by Sub Contractors and where guarantees are required, secure warranties from said Sub Contractors addressed to and in favor of Owner. Deliver copies of same to Architect upon completion of work.

C. Delivery of said warranties shall not relieve Contractor from any obligation assumed under any other provisions of Contract.

D. Nothing herein intends or implies that warranty shall apply to work which has been abused or neglected by Owner or Owners successor in interest.

1.11 ASBESTOS

A. If, during the construction of this project, work involving friable asbestos is suspected or encountered, the Owner or the Owner's representative shall be notified immediately and the Owner, with its own forces or by separate contract, shall be responsible for complete investigation, removal and disposition of the friable asbestos hazard in accordance with applicable laws and regulations.

1.12 NON-DISCRIMINATION IN EMPLOYMENT

A. In connection with the performance of work under this Contract, the Contractor agrees not to discriminate against any employee or applicant for employment because of race, religion, color or national origin. The aforesaid provision shall include, but not be limited to, the following: Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; lay off or termination; rates of pay or other forms of compensation; and selection for training including apprenticeship. The Contractor agrees to post in conspicuous places, available for employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of the non discrimination clause.

1.13 JOB SPECIFIC REQUIREMENTS

A. Any construction person on site is required to go through mandatory PREA (Prison Rape Elimination Act) training.

B. All workers from the Contractor and subcontractors will go through a background check before being admitted to the site.

C. Contractors can tap off of the existing building’s electrical and water services during construction.

D. Parking is very limited, there will be no contractor parking in the two parking areas at the front of the building. There is also no parking along the alley way. A designated paved area for parking is on the west side of the site. Refer to A100 for additional information.

E. Construction meetings are required during construction. Contractor to take notes and distribute.

F. Contractor’s work schedule can be 7:00 AM – 6:00 PM. Working weekends and other hours will need prior authorization from the facility. Hours of work will be discussed further during the Pre-Construction Meeting.

G. The Contractor shall maintain a log in/log out book for all construction workers and have it available for review by the owners at any time.

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H. The building will remain in operation during construction. Mechanical and electrical shutdown to be coordinated with owner and with prior notice. Shut down must not disrupt day to day operations.

I. During specific times during the day, the owner will do a ‘count’ in the Facility. During those times, movement within the Facility is restricted. Contractor will coordinate worker’s access to the site during those times with the Facility.

J. Contractor to provide inventory list of all tools, by contractor and all subcontractors during construction. Contractor to update list as it changes and provide it to the owner. All tools will be inventoried daily.

K. The construction will be in two phases:
   1. First phase will be the new addition with no break though to existing building.
   2. Second phase will be the break through for new addition to existing building and all work in the existing building.

END OF SECTION

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SECTION 04 26 13

MASONRY VENEER

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section includes:
1. Brick.
2. Mortar materials.
3. Ties and anchors.
4. Embedded flashing.
5. Accessories.
6. Mortar mixes.

B. Products Installed but not Furnished under This Section:
1. Steel lintels in masonry veneer.
2. Steel shelf angles for supporting masonry veneer.

C. Related Requirements:
1. Section 04 22 00 - Concrete Masonry Unit
2. Section 05 12 00 - Structural Steel Framing
3. Section 07 21 00 - Building Insulation
4. Section 07 27 26 - Fluid-Applied Membrane Air Barriers
5. Section 07 62 00 - Sheet Metal Flashing and Trim

1.3 DEFINITIONS

A. CMU(s): Concrete masonry unit(s).

1.4 PRE-INSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site to discuss conformance with requirements of specification and job site conditions .

1.5 SUBMITTALS, GENERAL

A. Action and Informational Submittals for this specification section to be reviewed must be 100% complete and in one (1) package.
1. Only the actual samples required shall be allowed as a separate submittal.
2. Non- complete submittals will be returned to the contractor without comment and stamped “rejected-resubmit”.
3. Contractors who knowingly want to submit non-complete submittals or break single system submittals into multiple submittals will be responsible to arrange with Architect, prior to submitting the submittal(s), and to compensate Architect for the extra work involved.

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1.6 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For the following:
   1. Masonry Units: Indicate sizes, profiles, coursing, and locations of special shapes.
   2. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.

C. Samples for Initial Selection:
   1. Clay face brick
   2. Colored mortar.
   3. Weep/cavity vents.

D. Samples for Verification: For each type and color of the following:
   1. Clay face brick
   2. Colored mortar.
      a. Make Samples using same sand and mortar ingredients to be used on Project.
   3. Weep/cavity vents.
   4. Cavity drainage material.
   5. Accessories embedded in masonry.

1.7 INFORMATIONAL SUBMITTALS

A. List of Materials Used in Constructing Mockups: List generic product names together with manufacturers, manufacturers' product names, model numbers, lot numbers, batch numbers, source of supply, and other information as required to identify materials used. Include mix proportions for mortar and grout and source of aggregates.
   1. Submittal is for information only. Receipt of list does not constitute approval of deviations from the Contract Documents unless such deviations are specifically brought to the attention of Architect and approved in writing.

B. Material Certificates: For each type and size of the following:
   1. Masonry units.
      a. For brick, include size-variation data verifying that actual range of sizes falls within specified tolerances.
      b. For exposed brick, include test report for efflorescence in accordance with ASTM C67/C67M.
   2. Cementitious materials. Include name of manufacturer, brand name, and type.
   3. Mortar admixtures.
   4. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
   5. Anchors, ties, and metal accessories.

C. Qualification Statements: For testing agency.

D. Mix Designs: For each type of mortar. Include description of type and proportions of ingredients.
   1. Include test reports for mortar mixes required to comply with property specification. Test in accordance with ASTM C109/C109M for compressive strength, ASTM C1506 for water retention, and ASTM C91/C91M for air content.

E. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.8 QUALITY ASSURANCE

A. Qualifications:
   1. Installers: All masonry flashing installers must complete the International Masonry Institute Flashing Upgrade training course.
   2. Testing Agency: Qualified in accordance with ASTM C1093 for testing indicated.

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B. The 2021 International Building Code (IBC), as modified by the State of Wisconsin Chapters SPS 361-366 - Commercial Building Code, governs the requirements for products, materials, components, and systems that are indicated on the Drawings and specified in the Project Manual.

1.9 MOCKUPS

A. Sample Panels: Build sample panels to verify selections made under Sample submittals and to demonstrate aesthetic effects. Comply with requirements in Section 014000 "Quality Requirements" for mockups.
   1. Build sample panels for each type of exposed unit masonry construction in sizes approximately 48 inches (1219 mm) long by 48 inches (1219 mm) high by full thickness.
   2. Build sample panels facing south.
   3. Where masonry is to match existing, build panels adjacent and parallel to existing surface.
   4. Clean exposed faces of panels with masonry cleaner indicated.
   5. Protect approved sample panels from the elements with weather-resistant membrane.
   6. Approval of sample panels is for color, texture, and blending of masonry units; relationship of mortar and sealant colors to masonry unit colors; tooling of joints; aesthetic qualities of workmanship; and other material and construction qualities specifically approved by Architect in writing.
      a. Approval of sample panels does not constitute approval of deviations from the Contract Documents contained in sample panels unless such deviations are specifically approved by Architect in writing.

B. Wall Mockups: Build mockups to verify selections made under Sample submittals, to set quality standards for materials and execution and to set quality standards for installation.
   1. Build mockups for each type of exposed unit masonry construction in sizes approximately 60 inches (1524 mm) long by 72 inches (1829 mm) high by full thickness, including face and backup wythes and accessories.
      a. Include a sealant-filled joint at least 16 inches (406 mm) long in each mockup.
      b. Include lower corner of window opening at upper corner of exterior wall mockup. Make opening approximately 12 inches (305 mm) wide by 16 inches (406 mm) high.
      c. Include through-wall flashing installed for a 24-inch (610-mm) length in corner of exterior wall mockup approximately 16 inches (406 mm) down from top of mockup, with a 12-inch (305-mm) length of flashing left exposed to view (omit masonry above half of flashing).
      d. Include CMU, air barrier, veneer anchors, flashing, cavity drainage material, and weep holes in exterior masonry-veneer wall mockup.
   2. Where masonry is to match existing, erect mockups adjacent and parallel to existing surface.
   3. Clean exposed faces of mockups with masonry cleaner as indicated.
   4. Protect accepted mockups from the elements with weather-resistant membrane.
   5. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
   6. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.

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E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.11 FIELD CONDITIONS

A. Protection of Masonry: During construction, cover tops of veneer, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.
   1. Extend cover a minimum of 24 inches (610 mm) down face of veneer, and hold cover securely in place.

B. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry. Immediately remove grout, mortar, and soil that come in contact with masonry.
   1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
   2. Protect sills, ledges, and projections from mortar droppings.
   3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
   4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.

C. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602.
   1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.

D. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602.

1.12 WARRANTY

A. System Warranty: Manufacturer's non-prorated comprehensive warranty that agrees to repair and replace defective installation areas, material, and labor that fail under normal usage within specified warranty period.
   1. Warranty Period: Lifetime from date of Product Purchase.

PART 2 - PRODUCTS

2.1 SOURCE LIMITATIONS

A. Obtain exposed masonry units, cementitious mortar components and mortar aggregate from single source producer or manufacture.

B. For exposed masonry units and cementitious mortar components, obtain each color and grade from single source with resources to provide materials of consistent quality in appearance and physical properties.

2.2 BRICK MASONRY, GENERAL

A. Masonry Standard: Comply with TMS 602, except as modified by requirements in the Contract Documents.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects will be

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exposed in the completed Work and will be within 20 ft. (6 m) vertically and horizontally of a walking surface.

C. Fire-Resistance Ratings: Comply with requirements for fire-resistance-rated assembly designs indicated.
   1. Where fire-resistance-rated construction is indicated, use units that are listed by UL or a qualified testing agency acceptable to authorities having jurisdiction.

2.3 BRICK

A. General: Provide shapes indicated and as follows, with exposed surfaces matching finish and color of exposed faces of adjacent units.
   1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.
   2. Provide special shapes for applications [where stretcher units cannot accommodate special conditions, including corners, movement joints, bond beams, sashes, and lintels][requiring brick of size, form, color, and texture on exposed surfaces that cannot be produced by sawing][where shapes produced by sawing would result in sawed surfaces being exposed to view].

B. Clay Face Brick:
   1. Initial Rate of Absorption: Less than 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested in accordance with ASTM C67/C67M.
   2. Efflorescence: Provide brick that has been tested in accordance with ASTM C67/C67M and is rated "not effloresced."
   3. Surface Coating: Brick with colors or textures produced by application of coatings withstand 50 cycles of freezing and thawing in accordance with ASTM C67/C67M with no observable difference in the applied finish when viewed from 10 ft. (3 m)
   4. Size (Actual Dimensions): Match existing face brick as indicated on drawings.
   5. Application: Use where brick is exposed unless otherwise indicated.
   6. Where shown to match existing, provide clay face brick matching color range, texture, and size of existing adjacent brickwork.
   7. Color and Texture: Match existing face brick as indicated on the drawings

2.4 MORTAR MATERIALS

A. Portland Cement: ASTM C150/C150M, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.
   1. Alkali content will not be more than 0.1 percent when tested in accordance with ASTM C114.

B. Hydrated Lime: ASTM C207, Type S.

C. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.

D. Masonry Cement: ASTM C91/C91M.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Argos USA LLC
      b. Heidelberg Materials
      c. Federal White Cement, Ltd.
      d. Holcim (US) Inc
      e. Lafarge North America Inc.
      f. Quikrete; The QUIKRETE Companies, LLC
      g. Sakrete; CRH Americas, Oldcastle APG

E. Mortar Cement: ASTM C1329/C1329M.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Lafarge North America Inc.

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F. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C979/C979M. Use only pigments with a record of satisfactory performance in masonry mortar.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Euclid Chemical Company (The); a subsidiary of RPM International, Inc.
      b. Lanxess Corporation
      c. Solomon Colors Inc.

G. Colored Cement Products: Packaged blend made from portland cement and hydrated lime, masonry cement or mortar cement and mortar pigments, all complying with specified requirements, and containing no other ingredients
   1. Colored Portland Cement-Lime Mix:
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) Argos USA LLC
         2) Heidelberg Materials
         3) Holcim (US) Inc
   2. Colored Masonry Cement:
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) Argos USA LLC
         2) Cemex S.A.B. de C.V.
         3) Fairborn Cement Company
         4) Heidelberg Materials
         5) Holcim (US) Inc
         6) Lafarge North America Inc.
   3. Formulate blend as required to produce color indicated or, if not indicated, as selected from manufacturer's standard colors.
   4. Pigments do not exceed 10 percent of portland cement by weight.
   5. Pigments do not exceed 5 percent of masonry cement or mortar cement by weight.

H. Preblended Dry Mortar Mix: Packaged blend made from portland cement and hydrated lime, masonry cement or mortar cement, sand, mortar pigments, water repellents, and admixtures and complying with ASTM C1714/C1714M.
   1. Preblended Dry Portland Cement Mortar Mix:
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) Amerimix is a trademark of Bonsal American, an Oldcastle company
         2) Quikrete; The QUIKRETE Companies, LLC
         3) Sakrete; CRH Americas, Oldcastle APG
         4) SPEC MIX, LLC
   2. Preblended Dry Masonry Cement Mortar Mix:
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) Amerimix is a trademark of Bonsal American, an Oldcastle company
         2) SPEC MIX, LLC

I. Aggregate for Mortar: ASTM C144.
   1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
   2. For joints less than 1/4 inch (6.4 mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.
   3. White-Mortar Aggregates: Natural white sand or crushed white stone.
   4. Colored-Mortar Aggregates: Natural sand or crushed stone of color necessary to produce required mortar color.

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J. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C494/C494M, Type C and recommended by manufacturer for use in masonry mortar of composition indicated.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Euclid Chemical Company (The); a subsidiary of RPM International, Inc.
      b. GCP Applied Technologies Inc.

K. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs containing integral water repellent from same manufacturer.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. ACM Chemistries
      b. Euclid Chemical Company (The); a subsidiary of RPM International, Inc.
      c. GCP Applied Technologies Inc.
      d. Master Builders Solutions

L. Water: Potable.

2.5 TIES AND ANCHORS

A. General: Ties and anchors extend at least 1-1/2 inches (38 mm) into veneer but with at least a 5/8-inch (16-mm) cover on outside face.

B. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
   1. Mill-Galvanized, Carbon-Steel Wire: ASTM A1064/A1064M, with ASTM A641/A641M, Class 1 coating.
   2. Galvanized-Steel Sheet: ASTM A653/A653M, Commercial Steel, G60 (Z180) zinc coating.

C. Corrugated-Metal Ties: Metal strips not less than 7/8 inch (22 mm) wide with corrugations having a wavelength of 0.3 to 0.5 inch (7.6 to 13 mm) and an amplitude of 0.06 to 0.10 inch (1.5 to 2.5 mm) made from 0.0635-inch- (1.61-mm-) thick, steel sheet, galvanized after fabrication.

D. Adjustable Anchors for Connecting to Structural Steel Framing: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
   1. Anchor Section for Welding to Steel Frame: Crimped 1/4-inch- (6.4-mm-) diameter, hot-dip galvanized steel. Mill-galvanized wire may be used at interior walls unless otherwise indicated.
   2. Tie Section: Triangular-shaped wire tie made from 0.25-inch- (6.4-mm-) diameter,hot-dip galvanized steel. Mill-galvanized wire may be used at interior walls unless otherwise indicated.

E. Adjustable Anchors for Connecting to Concrete: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.
   1. Connector Section:Dovetail or Channel tabs for inserting into dovetail or channel slots in concrete and attached to tie section; formed from 0.060-inch- (1.52-mm-) thick, steel sheet, galvanized after fabrication.
      a. 0.064-inch- (1.63-mm-) thick, galvanized-steel sheet may be used at interior walls unless otherwise indicated.
   2. Tie Section: Triangular-shaped wire tie made from 0.25-inch- (6.4-mm-) diameter, hot-dip galvanized steel] wire. Mill-galvanized wire may be used at interior walls unless otherwise indicated.

F. Adjustable Masonry-Veneer Anchors:
   1. General: Provide anchors that allow vertical adjustment but resist a 100 lbf (445 N) load in both tension and compression perpendicular to plane of wall without deforming or developing play in excess of 1/16 inch (1.6 mm).
   2. Fabricate sheet metal anchor sections and other sheet metal parts from 0.0785-inch- (1.99-mm-) thick steel sheet, galvanized after fabrication.
   3. Fabricate wire ties from 0.25-inch- (6.4-mm-) diameter, hot-dip galvanized steel wire unless otherwise indicated.

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4. Contractor's Option: Unless otherwise indicated, provide any of the adjustable masonry-veneer anchors specified.
5. Masonry-Veneer Anchors; Vertical Slotted L-Plate: Rib-stiffened, sheet metal anchor section with screw holes at top and bottom, projecting vertical leg with slotted hole for wire tie and washer at face of insulation.
    a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
        1) FERO Corporation
        2) Hohmann & Barnard, Inc
        3) PROSOCO, Inc
        4) Wire-Bond
6. Masonry-Veneer Anchors; Double-Pintle Plate: Rib-stiffened, sheet metal anchor section with screw holes at top and bottom, projecting horizontal leg with slots for vertical legs of double pintle wire tie.
    a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
        1) [Heckmann Building Products, Inc.
        2) Hohmann & Barnard, Inc
        3) Quality Steel and Wire LLC
        4) Wire-Bond
7. Masonry-Veneer Anchors; Slotted Plate: Sheet metal anchor section, with screw holes at top and bottom; and raised rib-stiffened strap, stamped into center to provide a slot between strap and base for wire tie. Use self-adhering tape to seal penetration behind anchor plate.
    a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
        1) Heckmann Building Products, Inc.
        2) Hohmann & Barnard, Inc
        3) Quality Steel and Wire LLC
        4) Wire-Bond
8. Masonry-Veneer Anchors; Slotted Plate with Prongs: Sheet metal anchor section, with screw holes at top and bottom; top and bottom ends bent to form pronged legs of length to match thickness of insulation; and raised rib-stiffened strap, stamped into center to provide a slot between strap and base for wire tie. Use self-adhering tape to seal penetration behind anchor plate.
    a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
        1) Hohmann & Barnard, Inc
        2) Wire-Bond
9. Masonry-Veneer Anchors; Single-Barrel Screw: Self-drilling, single-barrel screw designed to receive wire tie. Screw has a smooth barrel the same thickness as insulation with factory-installed gasketed washer to seal at face of insulation and sheathing and a coating to reduce thermal conductivity.
    a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
        1) Hohmann & Barnard, Inc
        2) PROSOCO, Inc
        3) Rodenhouse Inc.
        4) Wire-Bond
        5) Heckmann Building Products, Inc.
10. Masonry-Veneer Anchors; Single-Barrel Screw with Double-Pintle Wingnut: Self-drilling, single-barrel screw with thermally resistant wingnut head or thermally resistant clip designed to receive double-pintle wire tie. Screw has a smooth barrel the same thickness as insulation with factory-installed gasketed washer to seal at face of insulation and sheathing and a coating to reduce thermal conductivity.
    a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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1) Heckmann Building Products, Inc.
2) Hohmann & Barnard, Inc

2.6 EMBEDDED FLASHING

A. Metal Flashing:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Cheney Flashing Company
   b. Hohmann & Barnard, Inc
   c. Keystone Flashing Company, Inc
2. General: Provide metal flashing complying with SMACNA's "Architectural Sheet Metal Manual" and as follows:
   a. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.016 inch (0.40 mm) thick.
   b. Fabricate continuous flashings in sections 96 inches (2438 mm) long minimum, but not exceeding 12 ft. (3.7 m). Provide splice plates at joints of formed, smooth metal flashing.
   c. Fabricate through-wall flashing with snaplock receiver on exterior face where indicated to receive counterflashing.
   d. Fabricate through-wall flashing with drip edge unless otherwise indicated. Fabricate by extending flashing 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
   e. Fabricate through-wall flashing with sealant stop unless otherwise indicated. Fabricate by bending metal back on itself 3/4 inch (19 mm) at exterior face of wall and down into joint 1/4 inch (6.4 mm) to form a stop for retaining sealant backer rod.
   f. Fabricate metal drip edges from stainless steel. Extend at least 3 inches (76 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
   g. Fabricate metal sealant stops from stainless steel. Extend at least 3 inches (76 mm) into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch (19 mm) and down into joint 1/4 inch (6.4 mm) to form a stop for retaining sealant backer rod.
   h. Fabricate metal expansion-joint strips from stainless steel to shapes indicated.
   i. Solder metal items at corners.

B. Flexible Flashing: Use one of the following unless otherwise indicated:
1. Self-Adhering, Stainless Steel Fabric Flashing: Composite, flashing product consisting of 2 mil (0.05 mm) of Type 304 stainless steel sheet, bonded to a layer of polymeric fabric with a butyl adhesive.
   a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      1) Hohmann & Barnard, Inc
      2) STS Coatings, Inc.
      3) VaproShield LLC
      4) Wire-Bond
      5) York Manufacturing, Inc
   b. Applications: Use 10-mil- (0.25-mm-) thick flashing at windows, doors, and small wall penetrations; not at base of walls.Use 40-mil- (1.0-mm-) thick flashing at base of walls.
2. Rubberized-Asphalt Flashing: Composite flashing product consisting of a pliable, adhesive rubberized-asphalt compound, bonded to a high-density, cross-laminated polyethylene film to produce an overall thickness of not less than 40 mil (1.0 mm).
   a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      1) Advanced Building Products Inc.
      2) Carlisle Coatings & Waterproofing Inc
      3) Fiberweb, a brand of Clark/Hammerbeam Corp.
      4) GCP Applied Technologies Inc.
      5) Heckmann Building Products, Inc.
      6) Hohmann & Barnard, Inc

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7) Polyguard Products, Inc.
8) W. R. Meadows, Inc
9) Williams Products, Inc.
10) Wire-Bond

b. Accessories: Provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.

3. Elastomeric Thermoplastic Flashing: Composite flashing product consisting of a polyester-reinforced ethylene interpolymer alloy.
   a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      1) Hohmann & Barnard, Inc
      2) Hyload; IKO Industries, Inc.
      3) Mortar Net Solutions
      4) Wire-Bond
4. EPDM Flashing: Sheet flashing product made from ethylene-propylene-diene terpolymer, complying with ASTM D4637/D4637M, 40 mil (1.0 mm) thick.
   a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      1) Carlisle Coatings & Waterproofing Inc
      2) Elevate; Holcim Building Envelope
      3) Heckmann Building Products, Inc.
      4) Hohmann & Barnard, Inc
      5) Wire-Bond

C. Drainage Plane Flashing: Fabricate from stainless steel, rubberized asphalt or elastomeric membrane, and drainage membrane to shapes indicated, including weep tabs, termination bar and drip edge. Provide flashing materials as follows:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
   a. Mortar Net Solutions
   b. STS Coatings, Inc.
   c. York Manufacturing, Inc
2. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.016 inch (0.40 mm) thick.
3. Rubberized Asphalt: 40 mil (1.0 mm) thick.
4. Elastomeric Membrane: EPDM complying with ASTM D4637/D4637M, [40 mil (1.0 mm)].
5. Fabricate continuous flashings in sections 60 inches (1524 mm) long, minimum.
6. Accessories: Provide preformed corners, end dams, other special shapes, and seaming materials produced by flashing manufacturer.

D. Solder and Sealants for Sheet Metal Flashings: As specified in Section 076200 "Sheet Metal Flashing and Trim."
1. Elastomeric Sealant: ASTM C920, chemically curing urethane sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and remain watertight.

E. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

F. Termination Bars for Flexible Flashing: Stainless steel sheet steel bars 0.075 inch by 1 inch (1.9 mm by 25 mm) minimum.

G. Termination Bars for Flexible Flashing, Flanged: Stainless steel sheet 0.019 inch by 1-1/2 inches (0.48 mm by 38 mm) with a 3/8-inch (10-mm) flange at top and bottom.

2.7 ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene.

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B. Weep/Vent Products: Use one of the following unless otherwise indicated:
   1. Rectangular Plastic Weep/Vent Tubing: Clear butyrate, 3/8 by 1-1/2 by 3-1/2 inches (10 by 38 by 89 mm) long.
   2. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch (3.2 mm) less than depth of outer wythe, in color selected from manufacturer's standard.
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) Advanced Building Products Inc.
         2) Heckmann Building Products, Inc.
         3) Hohmann & Barnard, Inc
         4) Mortar Net Solutions
         5) Wire-Bond
   3. Mesh Weep/Vent: Free-draining mesh; made from polyethylene strands, full height and width of head joint and depth 1/8 inch (3.2 mm) less than depth of outer wythe; in color selected from manufacturer's standard.
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) CavClear; a division of Archovations, Inc.
         2) Hohmann & Barnard, Inc
         3) Keene Building Products
         4) Mortar Net Solutions
   4. Vinyl Weep Hole/Vent: Units made from flexible PVC, designed to fit into a head joint and consisting of a louvered vertical leg, flexible wings to seal against ends of masonry units, and a top flap to keep mortar out of the head joint; in color selected by Architect.
      a. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
         1) Hohmann & Barnard, Inc
         2) Williams Products, Inc.
         3) Wire-Bond

C. Cavity Drainage Material: Not Allowed

D. Offset Angle Supports: Steel plate brackets anchored to structure, allowing continuous insulation behind shelf angle supporting veneer. Component and anchor size and spacing engineered by manufacturer.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. FERO Corporation
      b. Halfen USA, Inc.
      c. Hohmann & Barnard, Inc

E. Proprietary Acidic Masonry Cleaner: Manufacturer's standard-strength cleaner designed for removing mortar/grout stains, efflorescence, and other new construction stains from new masonry without discoloring or damaging masonry surfaces. Use product expressly approved for intended use by cleaner manufacturer and manufacturer of masonry units being cleaned.
   1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
      a. Diedrich Technologies, Inc.; a Hohmann & Barnard company
      b. EaCo Chem, Inc.
      c. PROSOCO, Inc

2.8 MORTAR MIXES

A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.
   1. Do not use calcium chloride in mortar or grout.
   2. Use portland cement-lime, masonry cement or mortar cement mortar unless otherwise indicated.

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3. For exterior masonry, use portland cement-lime mortar.
4. For reinforced masonry, use portland cement-lime mortar.
5. Add cold-weather admixture (if used) at same rate for all mortar that will be exposed to view, regardless of weather conditions, to ensure that mortar color is consistent.

B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

C. Mortar for Unit Masonry: Comply with ASTM C270, Property Specification. Use Type N unless another type is indicated.
1. For masonry below grade or in contact with earth, use Type M.

D. Pigmented Mortar: Use colored cement product or select and proportion pigments with other ingredients to produce color required. Do not add pigments to colored cement products.
1. Pigments do not exceed 10 percent of portland cement by weight.
2. Mix to match Architect's sample.
3. Application: Use pigmented mortar for exposed mortar joints.

E. Colored-Aggregate Mortar: Produce required mortar color by using colored aggregates and natural color or white cement as necessary to produce required mortar color.
1. Mix to match Architect's sample.
2. Application: Use colored-aggregate mortar for exposed mortar joints.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

A. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match the construction immediately adjacent to opening.

B. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

C. Select and arrange units for exposed unit masonry to produce a uniform blend of colors and textures. Mix units from several pallets or cubes as they are placed.

D. Matching Existing Masonry: Match coursing, bonding, color, and texture of existing masonry.

E. Wetting of Brick: Wet brick before laying if initial rate of absorption exceeds 30 g/30 sq. in. (30 g/194 sq. cm) per minute when tested in accordance with ASTM C67/C67M. Allow units to absorb water so they are damp but not wet at time of laying.

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3.3 TOLERANCES

A. Dimensions and Locations of Elements:
   1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch (13 mm) or minus 1/4 inch (6.4 mm).
   2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch (13 mm).
   3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch (6.4 mm) in a story height or 1/2 inch (13 mm) total.

B. Lines and Levels:
   1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 ft. (6.4 mm in 3 m), or 1/2-inch (13-mm) maximum.
   2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 ft. (3.2 mm in 3 m), 1/4 inch in 20 ft. (6.4 mm in 6 m), or 1/2-inch (13-mm) maximum.
   3. For vertical lines and surfaces, do not vary from plumb by more than 1/4 inch in 10 ft. (6.4 mm in 3 m), 3/8 inch in 20 ft. (10 mm in 6 m), or 1/2-inch (13-mm) maximum.
   4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 ft. (3.2 mm in 3 m), 1/4 inch in 20 ft. (6.4 mm in 6 m), or 1/2-inch (13-mm) maximum.
   5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 ft. (6.4 mm in 3 m), 3/8 inch in 20 ft. (10 mm in 6 m), or 1/2-inch (13-mm) maximum.
   6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 ft. (6.4 mm in 3 m), or 1/2-inch (13-mm) maximum.
   7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch (1.6 mm) except due to warpage of masonry units within tolerances specified for warpage of units.

C. Joints:
   1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3.2 mm), with a maximum thickness limited to 1/2 inch (13 mm).
   2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch (3.2 mm).
   3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch (10 mm) or minus 1/4 inch (6.4 mm).
   4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3.2 mm). Do not vary from adjacent bed-joint and head-joint thicknesses by more than 1/8 inch (3.2 mm).
   5. For exposed bed joints and head joints of stacked bond, do not vary from a straight line by more than 1/16 inch (1.6 mm) from one masonry unit to the next.

3.4 LAYING MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in bond pattern to match existing adjacent masonry; do not use units with less-than-nominal 4-inch (102-mm) horizontal face dimensions at corners or jambs.

C. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.

D. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

E. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

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3.5 MORTAR BEDDING AND JOINTING

A. Lay solid masonry units with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

B. Lay hollow brick with face shells fully bedded in mortar and with head joints of depth equal to bed joints. At starting course, fully bed entire units, including area under cells.
   1. At anchors and ties, fully bed units and fill cells with mortar as needed to fully embed anchors and ties in mortar.

C. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.
   1. For glazed masonry units, use a nonmetallic jointer 3/4 inch (19 mm) or more in width.

3.6 ANCHORED MASONRY VENEERS

A. Anchor masonry veneers to concrete and masonry backup with masonry-veneer anchors to comply with the following requirements:
   1. Fasten screw-attached anchors to concrete and masonry backup with metal fasteners of type indicated. Use two fasteners unless anchor design only uses one fastener.
   2. Embed tie sections and connector sections and continuous wire in masonry joints.
   3. Locate anchor sections to allow maximum vertical differential movement of ties up and down.
   4. Space anchors as indicated, but not more than 16 inches (406 mm) o.c. vertically and 25 inches (635 mm) o.c. horizontally, with not less than one anchor for each 3.5 sq. ft. (0.33 sq. m) of wall area. Install additional anchors within 12 inches (305 mm) of openings and at intervals, not exceeding 36 inches (914 mm), around perimeter.
   5. Space anchors as indicated, but not more than 18 inches (457 mm) o.c. vertically and horizontally. Install additional anchors within 12 inches (305 mm) of openings and at intervals, not exceeding 24 inches (610 mm), around perimeter.

B. Provide not less than 1 inch (25 mm) of airspace between back of masonry veneer and face of insulation.
   1. Keep airspace clean of mortar droppings and other materials during construction. Bevel beds away from airspace, to minimize mortar protrusions into airspace. Do not attempt to trowel or remove mortar fins protruding into airspace.

3.7 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete to comply with the following:
   1. Provide an open space not less than 1 inch (25 mm) wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
   2. Anchor masonry with anchors embedded in masonry joints and attached to structure.
   3. Space anchors as indicated, but not more than 24 inches (610 mm) o.c. vertically and 36 inches (914 mm) o.c. horizontally.

3.8 EXPANSION JOINTS

A. General: Install expansion-joint materials in unit masonry as masonry progresses. Do not allow materials to span expansion joints without provision to allow for in-plane wall or partition movement.

B. Form expansion joints as follows:
   1. Build flanges of metal expansion strips into masonry. Lap each joint 4 inches (102 mm) in direction of water flow. Seal joints below grade and at junctures with horizontal expansion joints if any.
   2. Build flanges of factory-fabricated, expansion-joint units into masonry.
   3. Build in compressible joint fillers where indicated.

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4. Form open joint full depth of brick wythe and of width indicated, but not less than 1/2 inch (13 mm) for installation of sealant and backer rod specified in Section 079200 "Joint Sealants."

C. Provide horizontal, pressure-relieving joints by either leaving an airspace or inserting a compressible filler of width required for installing sealant and backer rod specified in Section 079200 "Joint Sealants," but not less than 3/8 inch (10 mm)
1. Locate horizontal, pressure-relieving joints beneath shelf angles supporting masonry.

3.9 LINTELS

A. Install steel lintels where indicated.

B. Provide offset angle supports where indicate and where openings of more than 12 inches (305 mm) for brick-size units and 24 inches (610 mm) for block-size units are indicated without structural steel or other supporting lintels.

C. Provide minimum bearing of 8 inches (203 mm) at each jamb unless otherwise indicated.

3.10 FLASHING, WEEP HOLES, AND VENTS

A. General: Install embedded flashing and weep holes in masonry at shelf angles, lintels, ledges, other obstructions to downward flow of water in wall, and where indicated. Install vents at shelf angles, ledges, and other obstructions to upward flow of air in cavities, and where indicated.

B. Install flashing as follows unless otherwise indicated:
1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.
2. Extend flashing through veneer, across airspace behind veneer, and up face of sheathing at least 8 inches (203 mm); with upper edge tucked under water-resistive barrier lapping at least 4 inches (102 mm). Fasten upper edge of flexible flashing to sheathing through termination bar.
3. At lintels and shelf angles, extend flashing 6 inches (152 mm) minimum, to edge of next full unit at each end. At heads and sills, extend flashing 6 inches (152 mm) minimum, to edge of next full unit and turn ends up not less than 2 inches (51 mm) to form end dams.
4. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall, and adhere flexible flashing to top of metal drip edge.
5. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall, and adhere flexible flashing to top of metal flashing termination.
6. Cut flexible flashing off flush with face of wall after masonry wall construction is completed.

C. Install reglets and nailers for flashing and other related construction where they are indicated to be built into masonry.

D. Install weep holes in veneers in head joints of first course of masonry immediately above embedded flashing.
1. Use specified weep/cavity vent products to form weep holes.
2. Use wicking material to form weep holes above flashing under brick sills. Turn wicking down at lip of sill to be as inconspicuous as possible.
3. Space weep holes 24 inches (610 mm) o.c. unless otherwise indicated.
4. Cover cavity side of weep holes with plastic insect screening at cavities insulated with loose-fill insulation.
5. Trim wicking material flush with outside face of wall after mortar has set.

E. Place cavity drainage material in airspace behind veneers to comply with configuration requirements for cavity drainage material in "Accessories" Article.

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F. Install vents in head joints in exterior wythes at spacing indicated. Use specified weep/cavity vent products to form vents.
   1. Close cavities off vertically and horizontally with blocking in manner indicated. Install through-wall flashing and weep holes above horizontal blocking.

3.11 FIELD QUALITY CONTROL

A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements will be at Contractor's expense.

B. Inspections: Special inspections in accordance with Level 2 in TMS 402.
   1. Begin masonry construction only after inspectors have verified proportions of site-prepared mortar.

C. Testing Prior to Construction: One set of tests.

D. Clay Masonry Unit Test: For each type of unit provided, in accordance with ASTM C67/C67M for compressive strength.

E. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, in accordance with ASTM C780.

3.12 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.

C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.

D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:
   1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
   2. Test cleaning methods on sample wall panel; leave one-half of panel uncleaned for comparison purposes. Obtain Architect's approval of sample cleaning before proceeding with cleaning of masonry.
   3. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
   4. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
   5. Clean masonry with a proprietary acidic cleaner applied according to manufacturer's written instructions.

3.13 MASONRY WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

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END OF SECTION

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SECTION 08 31 13

FIRE-RATED ACCESS DOORS AND FRAMES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

1. Fire-rated access doors.

1.3 SUBMITTALS, GENERAL

A. Action and Informational Submittals for this specification section to be reviewed must be 100% complete and in one (1) package.
   1. Only the actual samples required shall be allowed as a separate submittal.
   2. Non- complete submittals will be returned to the contractor without comment and stamped “rejected-resubmit”.
   3. Contractors who knowingly want to submit non-complete submittals or break single system submittals into multiple submittals will be responsible to arrange with Architect, prior to submitting the submittal(s), and to compensate Architect for the extra work involved.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, fire ratings, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Format: Arrange the following information in a tabular format:
      a. Specification Section number and title.
      b. Name of subcontractor.
      c. Scheduled dates for installation.

B. Product schedule for access doors and frames indicating locations for installation.
   1. Use same designations indicated on Drawings.

C. Samples: For each type of access door and frame and for each finish specified, complete assembly minimum 6 by 6 inches (150 by 150 mm) in size.

1.5 INFORMATIONAL SUBMITTALS

A. Field Quality-Control Reports: For fire-rated door inspections.

B. Qualification Statements: For testing and inspecting agency.
   1. Fire-Rated Door Inspector: Submit documentation of compliance with NFPA 80, Section 5.2.3.1.
   2. Submit copy of DHI Fire and Egress Door Assembly Inspector (FDAI) certificate.

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1.6 CLOSEOUT SUBMITTALS

A. Record Documents: For fire-rated doors, list of applicable room name and number in which access door is located.

1.7 QUALITY ASSURANCE

A. The 2021 International Building Code (IBC), as modified by the State of Wisconsin Chapters SPS 361-366 - Commercial Building Code, governs the requirements for products, materials, components, and systems that are indicated on the Drawings and specified in the Project Manual.

B. Fire-Rated Door Inspector Qualifications: Inspector for field quality-control inspections of fire-rated door assemblies complies with the qualifications set forth in NFPA 80, Section 5.2.3.1 and the following:
   1. Door and Hardware Institute Fire and Egress Door Assembly Inspector (FDAI) certification.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Rated Access Doors and Frames: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency, for fire-protection ratings indicated, in accordance with NFPA 252 or UL 10B.

2.2 FIRE RATED ACCESS DOORS AND FRAMES

1. Basis-of-Design Product: Subject to compliance with requirements, provide[JL Industries; Activar Construction Products Group, Inc., 30" x 48" FD2 - 2 Hour Oversized Fire-Rated Access Panels for Wall.
2. Description: Door flush with frame, with a core of mineral-fiber insulation enclosed in sheet metal; with exposed flange, self-closing door, and concealed hinge.
3. Door Type:
   a. Flush.
4. Locations: Wall.
5. Door Size: 30” x 48”
6. Fire-Resistance Rating: Not less than that indicated.
7. Temperature-Rise Rating: 250 deg F (139 deg C) at the end of 30 minutes.
8. Stainless Steel Sheet for Door: Nominal 0.0500 inch (1.27 mm), 18 gage, ASTM A480/A480M No. 4 finish.
9. Frame Material:[Same material, thickness, and finish as door.
10. Latch and Lock: Self-latching door hardware, as indicated on Drawings with interior release.

2.3 MATERIALS

A. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

B. Steel Sheet: Uncoated or electrolytic zinc coated, ASTM A879/A879M, with cold-rolled steel sheet substrate complying with ASTM A1008/A1008M, Commercial Steel (CS), exposed.

C. Metallic-Coated Steel Sheet: ASTM A653/A653M, Commercial Steel (CS), Type B; with minimum G60 (Z180) or A60 (ZF180) metallic coating.

D. Stainless Steel Plate, Sheet, and Strip: ASTM A240/A240M or ASTM A666, Type 304, Remove tool and die marks and stretch lines, or blend into finish.

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E. Stainless Steel Flat Bars: ASTM A666, Type 304. Remove tool and die marks and stretch lines, or blend into finish.

F. Frame Anchors: Same material as door face.

G. Inserts, Bolts, and Anchor Fasteners: Hot-dip galvanized steel in accordance with ASTM A153/A153M or ASTM F2329/F2329M.

2.4 FABRICATION

A. General: Provide access door and frame assemblies manufactured as integral units ready for installation.

B. Metal Surfaces: For metal surfaces exposed to view in the completed Work, provide materials with smooth, flat surfaces without blemishes. Do not use materials with exposed pitting, seam marks, roller marks, rolled trade names, or roughness.

C. Doors and Frames: Grind exposed welds smooth and flush with adjacent surfaces. Furnish mounting holes, attachment devices and fasteners of type required to secure access doors to types of supports indicated.
   1. For concealed flanges with drywall bead, provide edge trim for gypsum panels securely attached to perimeter of frames.

D. Recessed Access Doors: Form face of panel to provide recess for application of applied finish. Reinforce panel as required to prevent buckling. Provide access sleeves for each latch operator and install in holes cut through finish.

E. Latch and Lock Hardware:
   1. Quantity: Furnish number of latches and locks required to hold doors tightly closed.
   2. Keys: Furnish two keys per lock and key all locks alike.
   3. Mortise Cylinder Preparation: Where indicated, prepare door panel to accept cylinder specified in Section 087100 "Door Hardware."

2.5 FINISHES

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

C. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

D. Stainless Steel Finishes:
   1. Surface Preparation: Remove tool and die marks and stretch lines, or blend into finish.
   2. Polished Finish: ASTM A480/A480M No. 4 finish. Grind and polish surfaces to produce uniform finish, free of cross scratches.
      a. Run grain of directional finishes with long dimension of each piece.
      b. When polishing is completed, passivate and rinse surfaces. Remove embedded foreign matter and leave surfaces chemically clean.

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PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION OF DOORS AND FRAMES

A. Comply with manufacturer's written instructions for installing access doors and frames.

3.3 FIELD QUALITY CONTROL

A. Inspection Agency: Engage a qualified inspector to perform inspections and to furnish reports to Architect.

B. Inspections:
1. Fire-Rated Door Inspections: Inspect each fire-rated access door in accordance with NFPA 80, Section 5.2.

C. Repair or remove and replace installations where inspections indicate that they do not comply with specified requirements.

D. Reinspect repaired or replaced installations to determine if replaced or repaired door assembly installations comply with specified requirements.

E. Prepare and submit separate inspection report for each fire-rated access door indicating compliance with each item listed in NFPA 80 and NFPA 101.

3.4 ADJUSTING

A. Adjust doors and hardware, after installation, for proper operation.

END OF SECTION

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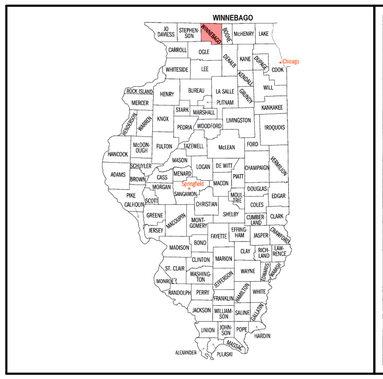
Winnebago County, IL

JUVENILE MENTAL HEALTH ADDITION

5350 Northrock Drive
Rockford, IL 61103



ILLINOIS MAP

VICINITY MAP

SITE MAP

WINNEBAGO COUNTY JUVENILE MENTAL HEALTH ADDITION

BID SET

OWNER	CIVIL / LANDSCAPING	ARCHITECT	STRUCTURAL	PLUMBING / FIRE PROTECTION	HEATING, VENTILATING AND AIR CONDITIONING	ELECTRICAL / TELECOMMUNICATIONS / SECURITY ELECTRONICS
Winnebago County, IL	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Venture Architects** 212 North 25th Street Milwaukee, Wisconsin 53233 Phone: (414) 271-3359	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554

SHEETS

VENTURE ARCHITECTS
212 North 25th Street | Milwaukee, WI 53233 | venturearch.com
TELEPHONE [414] 271.3359
FACSIMILE [414] 476.8582

Project:
Winnebago County, IL
JUVENILE MENTAL HEALTH ADDITION

Location:
5350 Northrock Drive
Rockford, IL 61103

Sheet:
COVER SHEET / INDEX

Revisions:

No.	Date:	Description:
2	6-16-26	Addendum 2

Date:
05/18/2026

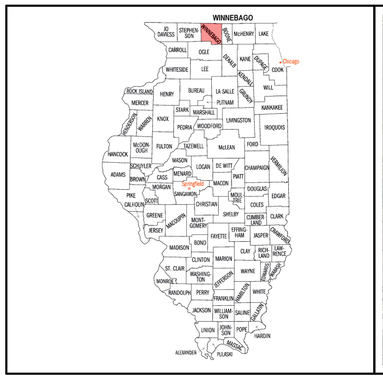
Project No.:	Set Type:
240081.01	BID

Sheet No.:
G101

Winnebago County, IL

JUVENILE MENTAL HEALTH ADDITION

5350 Northrock Drive
Rockford, IL 61103



ILLINOIS MAP

VICINITY MAP

SITE MAP

WINNEBAGO COUNTY JUVENILE MENTAL HEALTH ADDITION

BID SET

OWNER	CIVIL / LANDSCAPING	ARCHITECT	STRUCTURAL	PLUMBING / FIRE PROTECTION	HEATING, VENTILATING AND AIR CONDITIONING	ELECTRICAL / TELECOMMUNICATIONS / SECURITY ELECTRONICS
Winnebago County, IL	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Venture Architects** 212 North 25th Street Milwaukee, Wisconsin 53233 Phone: (414) 271-3359	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554	**Harwood Engineering** 255 North 21st Street Milwaukee, Wisconsin 53233 Phone: (414) 475-5554

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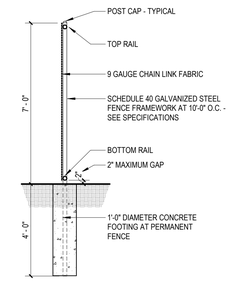
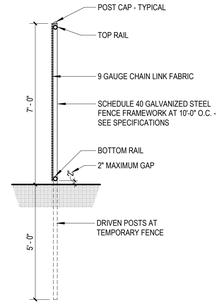
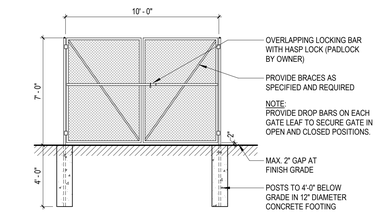


8 TYPE-P FENCE SECTION
3/8" = 1'-0"

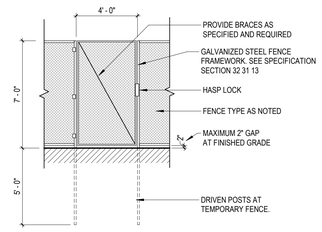


7 TYPE-T FENCE SECTION
3/8" = 1'-0"

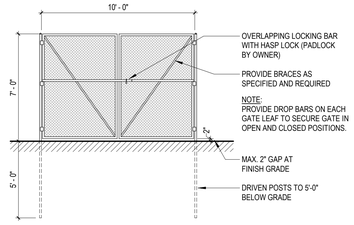
KEYNOTES PER SHEET	
KEY	DESCRIPTION
601	NEW PERMANENT 7'-0" HIGH CHAIN LINK FENCE WITH POSTS IN CONCRETE PIERS AT 10'-0" MAX SPACING - SEE DETAIL #5/A100
602	NEW PERMANENT 10'-0" WIDE X 7'-0" HIGH DOUBLE CHAIN LINK GATE - SEE DETAIL #7/A100
605	NEW TEMPORARY 10'-0" WIDE X 7'-0" HIGH DOUBLE CHAIN LINK GATE TO BE REMOVED UPON COMPLETION OF WORK - SEE DETAIL #6/A100
606	NEW TEMPORARY 4'-0" WIDE X 7'-0" HIGH CHAIN LINK CONSTRUCTION GATE AND FENCE TO BE REMOVED UPON COMPLETION OF WORK - SEE DETAIL #8/A100
607	EXISTING CHAIN LINK FENCE TO REMAIN
608	EXISTING CHAIN LINK FENCE AND FOUNDATION TO BE REMOVED



6 TYPE-P SWING GATE (PAIR) ELEVATION
1/4" = 1'-0"



5 TYPE-T SWING GATE ELEVATION
1/4" = 1'-0"



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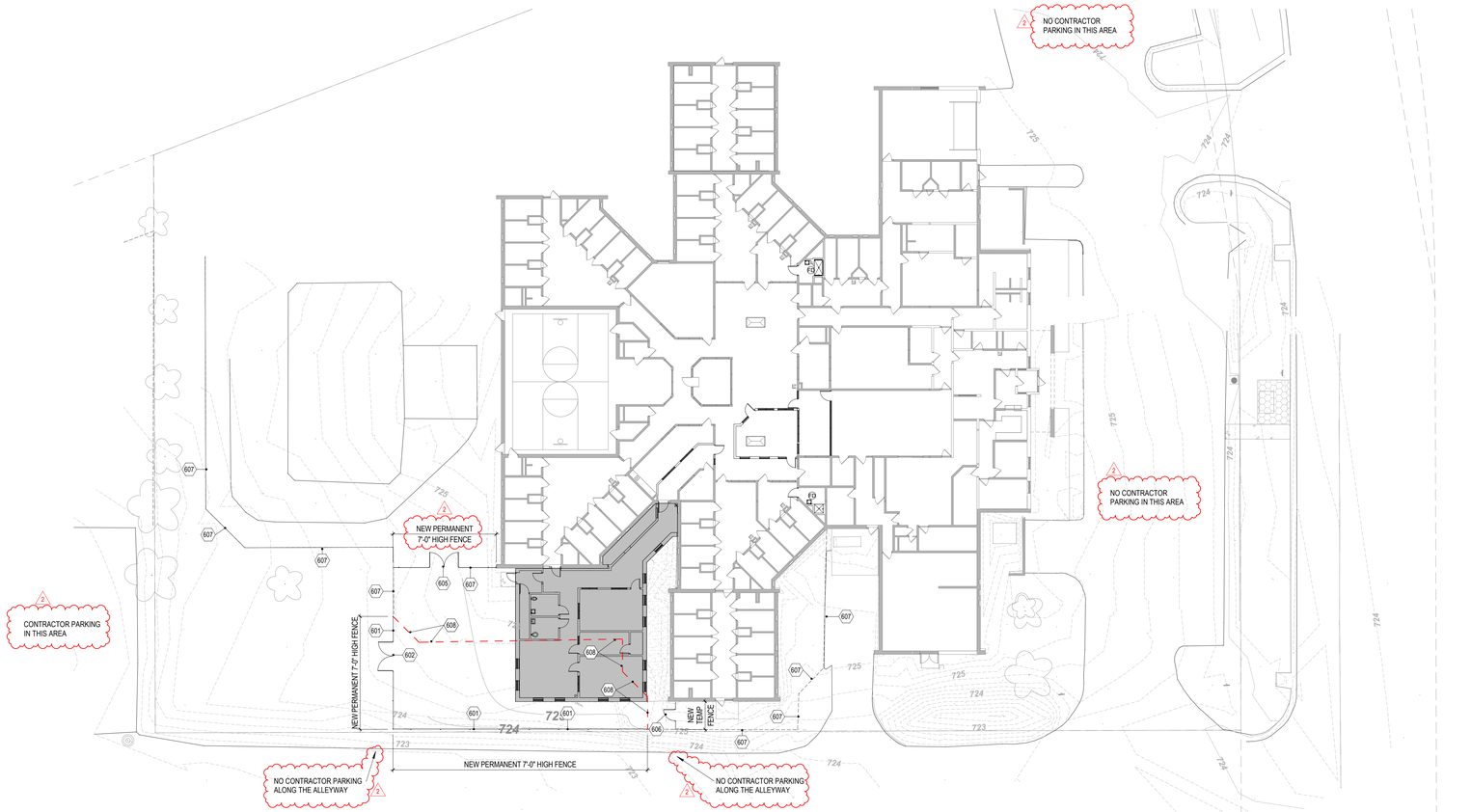
1/4" = 1'-0"



1 ARCHITECTURAL SITE PLAN
1" = 20'-0"

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Consultant:

Project:

Winnebago County, IL

JUVENILE MENTAL HEALTH ADDITION

Location:
5350 Northrock Drive
Rockford, IL 61103

Key Plan:

True North N

Plan North N

Sheet:

ARCHITECTURAL SITE PLAN

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05/18/2026

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A100

GENERAL DEMOLITION NOTES

EXISTING WALLS TO REMAIN

ITEMS FOR DEMOLITION

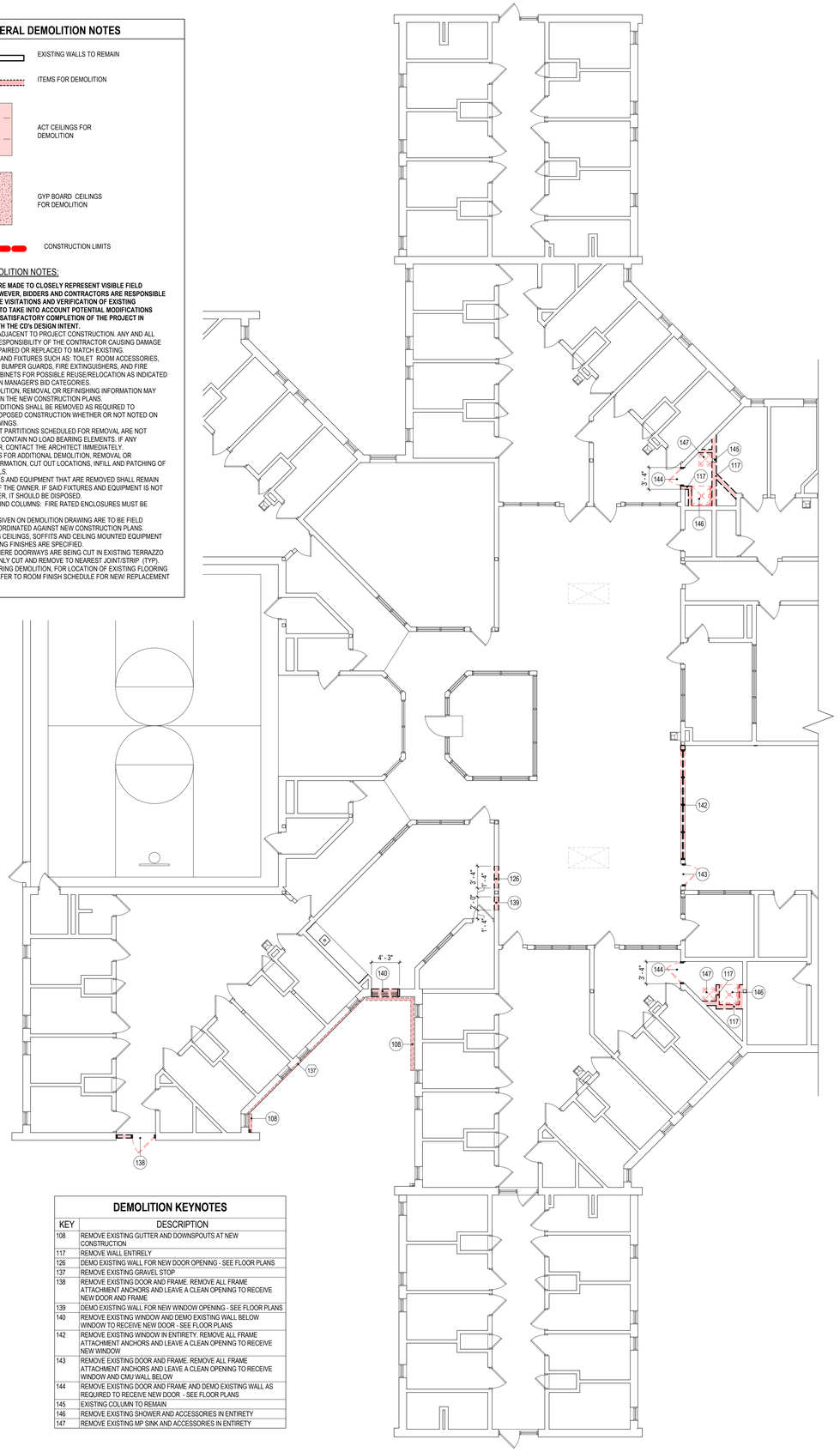
ACT CEILINGS FOR DEMOLITION

GYP BOARD CEILINGS FOR DEMOLITION

CONSTRUCTION LIMITS

GENERAL DEMOLITION NOTES:

1. **ALL EFFORTS WERE MADE TO CLOSELY REPRESENT VISIBLE FIELD CONDITIONS. HOWEVER, BIDDERS AND CONTRACTORS ARE RESPONSIBLE FOR FURTHER SITE VISITATIONS AND VERIFICATION OF EXISTING CONDITIONS AND TO TAKE INTO ACCOUNT POTENTIAL MODIFICATIONS NEEDED FOR THE SATISFACTORY COMPLETION OF THE PROJECT IN ACCORDANCE WITH THE CD's DESIGN INTENT.**
2. PROTECT AREAS ADJACENT TO PROJECT CONSTRUCTION. ANY AND ALL DAMAGE IS THE RESPONSIBILITY OF THE CONTRACTOR CAUSING DAMAGE AND SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING.
3. SAVE EQUIPMENT AND FIXTURES SUCH AS: TOILET ROOM ACCESSORIES, CORNER GUARDS, BUMPER GUARDS, FIRE EXTINGUISHERS, AND FIRE EXTINGUISHER CABINETS FOR POSSIBLE REUSE/RELOCATION AS INDICATED BY CONSTRUCTION MANAGER'S BID CATEGORIES.
4. ADDITIONAL DEMOLITION, REMOVAL OR REFINISHING INFORMATION MAY ALSO BE FOUND ON THE NEW CONSTRUCTION PLANS.
5. ALL EXISTING CONDITIONS SHALL BE REMOVED AS REQUIRED TO ACCOMODATE PROPOSED CONSTRUCTION WHETHER OR NOT NOTED ON DEMOLITION DRAWINGS.
6. FIELD VERIFY THAT PARTITIONS SCHEDULED FOR REMOVAL ARE NOT STRUCTURAL AND CONTAIN NO LOAD BEARING ELEMENTS. IF ANY CONFLICTS OCCUR, CONTACT THE ARCHITECT IMMEDIATELY.
7. REVIEW ALL PLANS FOR ADDITIONAL DEMOLITION, REMOVAL OR REFINISHING INFORMATION, CUT OUT LOCATIONS, INFILL AND PATCHING OF FLOORS AND WALLS.
8. EXISTING FIXTURES AND EQUIPMENT THAT ARE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. IF SAID FIXTURES AND EQUIPMENT IS NOT DESIRED BY OWNER, IT SHOULD BE DISPOSED.
9. DEMOLITION AROUND COLUMNS: FIRE RATED ENCLOSURES MUST BE MAINTAINED.
10. ALL DIMENSIONS GIVEN ON DEMOLITION DRAWING ARE TO BE FIELD VERIFIED AND COORDINATED AGAINST NEW CONSTRUCTION PLANS.
11. REMOVE EXISTING CEILINGS, SOFFITS AND CEILING MOUNTED EQUIPMENT WHERE NEW CEILING FINISHES ARE SPECIFIED.
12. AT LOCATIONS WHERE DOORWAYS ARE BEING CUT IN EXISTING TERRAZZO COVE BASE, CLEANLY CUT AND REMOVE TO NEAREST JOINT/STRIP (TYP).
13. FOR FLOOR COVERING DEMOLITION, FOR LOCATION OF EXISTING FLOORING FOR REMOVAL, REFER TO ROOM FINISH SCHEDULE FOR NEW/ REPLACEMENT FLOORING.



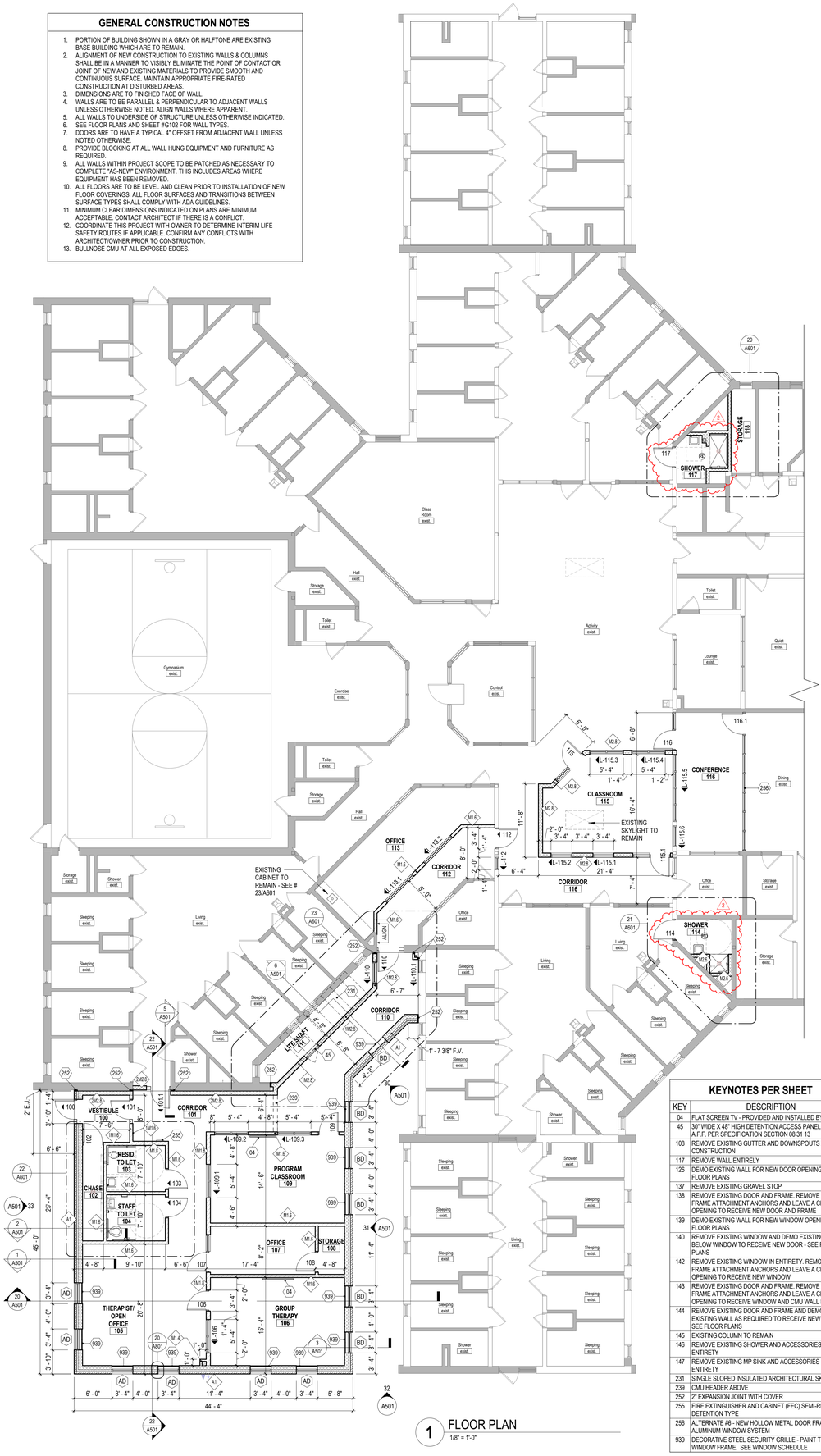
DEMOLITION KEYNOTES

KEY	DESCRIPTION
108	REMOVE EXISTING GUTTER AND DOWNSPOUTS AT NEW CONSTRUCTION
117	REMOVE WALL ENTIRELY
126	DEMO EXISTING WALL FOR NEW DOOR OPENING - SEE FLOOR PLANS
137	REMOVE EXISTING GRAVEL STOP
138	REMOVE EXISTING DOOR AND FRAME. REMOVE ALL FRAME ATTACHMENT ANCHORS AND LEAVE A CLEAN OPENING TO RECEIVE NEW DOOR AND FRAME
139	DEMO EXISTING WALL FOR NEW WINDOW OPENING - SEE FLOOR PLANS
140	REMOVE EXISTING WINDOW AND DEMO EXISTING WALL BELOW WINDOW TO RECEIVE NEW DOOR - SEE FLOOR PLANS
142	REMOVE EXISTING WINDOW IN ENTIRETY. REMOVE ALL FRAME ATTACHMENT ANCHORS AND LEAVE A CLEAN OPENING TO RECEIVE NEW WINDOW
143	REMOVE EXISTING DOOR AND FRAME. REMOVE ALL FRAME ATTACHMENT ANCHORS AND LEAVE A CLEAN OPENING TO RECEIVE WINDOW AND CMU WALL BELOW
144	REMOVE EXISTING DOOR AND FRAME AND DEMO EXISTING WALL AS REQUIRED TO RECEIVE NEW DOOR - SEE FLOOR PLANS
145	EXISTING COLUMN TO REMAIN
146	REMOVE EXISTING SHOWER AND ACCESSORIES IN ENTIRETY
147	REMOVE EXISTING MP SINK AND ACCESSORIES IN ENTIRETY

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

GENERAL CONSTRUCTION NOTES

1. PORTION OF BUILDING SHOWN IN A GRAY OR HALFTONE ARE EXISTING BASE BUILDING WHICH ARE TO REMAIN.
2. ALIGNMENT OF NEW CONSTRUCTION TO EXISTING WALLS & COLUMNS SHALL BE IN A MANNER TO VISIBLY ELIMINATE THE POINT OF CONTACT OR JOINT OF NEW AND EXISTING MATERIALS TO PROVIDE SMOOTH AND CONTINUOUS SURFACE. MAINTAIN APPROPRIATE FIRE-RATED CONSTRUCTION AT DISTURBED AREAS.
3. DIMENSIONS ARE TO FINISHED FACE OF WALL.
4. WALLS ARE TO BE PARALLEL & PERPENDICULAR TO ADJACENT WALLS UNLESS OTHERWISE NOTED. ALIGN WALLS WHERE APPARENT.
5. ALL WALLS TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE INDICATED.
6. SEE FLOOR PLANS AND SHEET #G102 FOR WALL TYPES.
7. DOORS ARE TO HAVE A TYPICAL 4" OFFSET FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
8. PROVIDE BLOCKING AT ALL WALL HUNG EQUIPMENT AND FURNITURE AS REQUIRED.
9. ALL WALLS WITHIN PROJECT SCOPE TO BE PATCHED AS NECESSARY TO COMPLETE "AS-NEW" ENVIRONMENT. THIS INCLUDES AREAS WHERE EQUIPMENT HAS BEEN REMOVED.
10. ALL FLOORS ARE TO BE LEVEL AND CLEAN PRIOR TO INSTALLATION OF NEW FLOOR COVERINGS. ALL FLOOR SURFACES AND TRANSITIONS BETWEEN SURFACE TYPES SHALL COMPLY WITH ADA GUIDELINES.
11. MINIMUM CLEAR DIMENSIONS INDICATED ON PLANS ARE MINIMUM ACCEPTABLE. CONTACT ARCHITECT IF THERE IS A CONFLICT.
12. COORDINATE THIS PROJECT WITH OWNER TO DETERMINE INTERIM LIFE SAFETY ROUTES IF APPLICABLE. CONFIRM ANY CONFLICTS WITH ARCHITECT/OWNER PRIOR TO CONSTRUCTION.
13. BULLNOSE CMU AT ALL EXPOSED EDGES.



KEYNOTES PER SHEET

KEY	DESCRIPTION
04	FLAT SCREEN TV - PROVIDED AND INSTALLED BY OWNER
45	30" WIDE X 48" HIGH DETENTION ACCESS PANEL AT 24" A.F.F. PER SPECIFICATION SECTION 08 31 13
108	REMOVE EXISTING GUTTER AND DOWNSPOUTS AT NEW CONSTRUCTION
117	REMOVE WALL ENTIRELY
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146	REMOVE EXISTING SHOWER AND ACCESSORIES IN ENTIRETY
147	REMOVE EXISTING MP SINK AND ACCESSORIES IN ENTIRETY
231	SINGLE SLOPED INSULATED ARCHITECTURAL SKYLIGHT
239	CMU HEADER ABOVE
252	2" EXPANSION JOINT WITH COVER
255	FIRE EXTINGUISHER AND CABINET (FEC) SEMI-RECESSED - DETENTION TYPE
256	ALTERNATE #6 - NEW HOLLOW METAL DOOR FRAME AND ALUMINUM WINDOW SYSTEM
939	DECORATIVE STEEL SECURITY GRILLE - PAINT TO MATCH WINDOW FRAME. SEE WINDOW SCHEDULE

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

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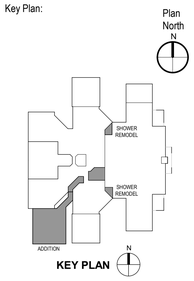

KEY PLAN

Sheet:

FIRST FLOOR PLAN AND DEMOLITION PLAN

Revisions:

No.	Date:	Description:
2	6-16-26	Addendum 2

Date:
05/18/2026

Project No.: 240081.01

Set Type: BID

Sheet No.:

A101

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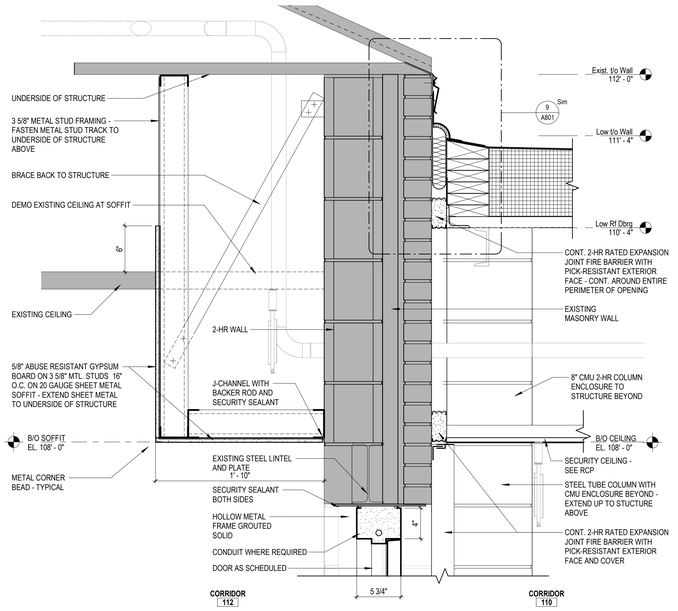
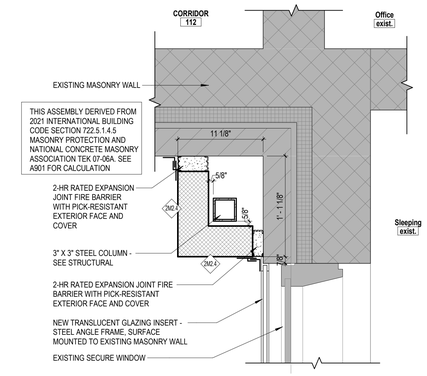
13. BULLNOSE CMU AT ALL EXPOSED EDGES.

KEYNOTES PER SHEET

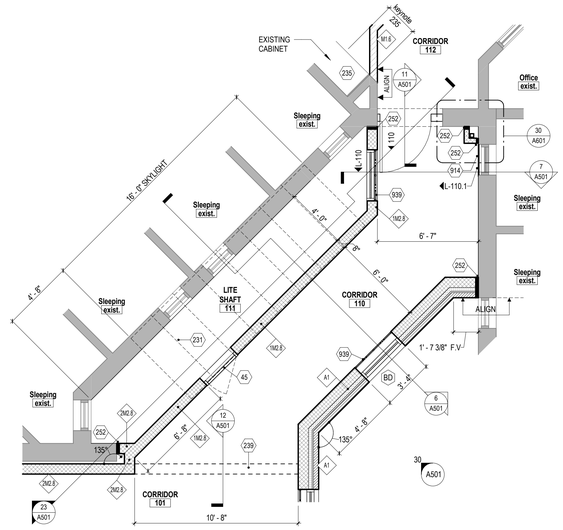
KEY	DESCRIPTION
07	GRAB BARS - SEE DETAIL #30/A902
08	24"X42" FRAMED MIRROR WITH SHELF - CENTER ABOVE SINK
09	RECESSED STAINLESS STEEL TOILET PAPER HOLDER - CONFIRM STYLE WITH OWNER
28	DETENTION GRAB BARS - SEE DETAIL #22/A902
29	SECURITY MIRROR AS SPECIFIED
45	30" WIDE X 48" HIGH DETENTION ACCESS PANEL AT 24" A.F.F. PER SPECIFICATION SECTION 08 31 13
52	PAPER TOWEL DISPENSER - CONFIRM STYLE WITH OWNER
53	TOILET PAPER DISPENSER - CONFIRM STYLE WITH OWNER
89	STAINLESS STEEL SOAP DISPENSER - CONFIRM STYLE WITH OWNER
231	SINGLE SLOPED INSULATED ARCHITECTURAL SKYLIGHT
235	REMOVE EXISTING CABINET (UPPER AND LOWER) DOORS IN THIS AREA. REMOVE DRAWERS, TAKE OFF DRAWER FRONT AND SCREW DRAWER FRONT ONTO CABINET FACE
239	CMU HEADER ABOVE
252	2" EXPANSION JOINT WITH COVER
521	VITREOUS CHINA SINK - SEE PLUMBING DRAWINGS
527	WALL HUNG TOILET - SEE PLUMBING DRAWINGS
906	STAINLESS STEEL DETENTION LAVATORY - SEE PLUMBING DRAWINGS
907	STAINLESS STEEL DETENTION TOILET - SEE PLUMBING DRAWINGS
914	TRANSLUCENT GLAZING INSERT - STEEL ANGLE FRAME, SURFACE MOUNTED TO MASONRY WALL
924	66" X 36" INMATE SHOWER - SEE PLUMBING DRAWINGS FOR SHOWER FIXTURE
925	36" X 36" CLEAR DIMENSION INMATE SHOWER - SEE PLUMBING DRAWINGS FOR SHOWER FIXTURE
939	DECORATIVE STEEL SECURITY GRILLE - PAINT TO MATCH WINDOW FRAME. SEE WINDOW SCHEDULE



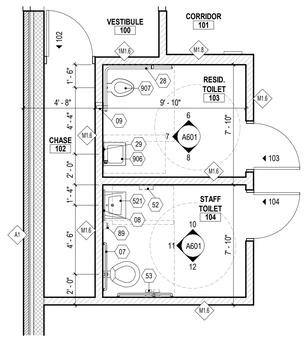
31 CONNECTING CORRIDOR 110 DOOR HEAD
1 1/2" = 1'-0"



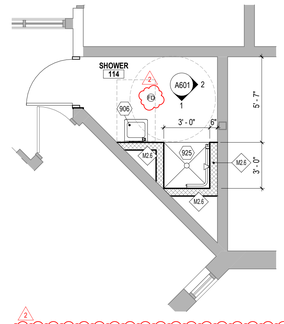
30 COLUMN ENCLOSURE
1 1/2" = 1'-0"



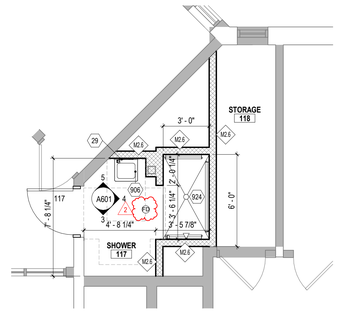
23 CONNECTING CORRIDOR 110
1/4" = 1'-0"



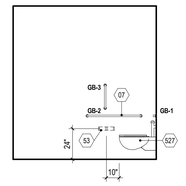
22 STAFF 104 & RESIDENT 103 TOILETS
1/4" = 1'-0"



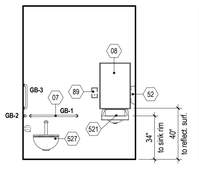
21 SOUTH SHOWER 114 REMODEL
1/4" = 1'-0"



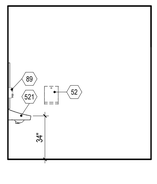
20 NORTH SHOWER 117 REMODEL
1/4" = 1'-0"



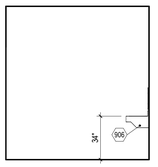
12 STAFF TLT. 104 TLT. SIDEWALL
1/4" = 1'-0"



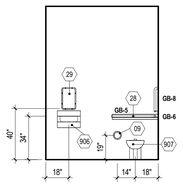
11 STAFF TLT. 104 WET WALL
1/4" = 1'-0"



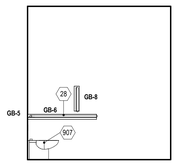
10 STAFF TLT. 104 LAV SIDEWALL
1/4" = 1'-0"



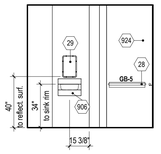
8 RES. TLT. 103 LAV SIDEWALL
1/4" = 1'-0"



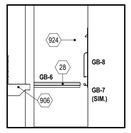
7 RES. TLT. 103 WET WALL
1/4" = 1'-0"



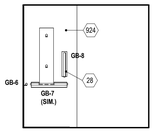
6 RES. TLT. 103 SIDEWALL
1/4" = 1'-0"



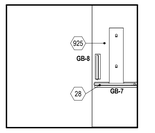
5 SHOWER 117 NORTH
1/4" = 1'-0"



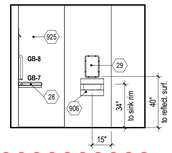
4 SHOWER 117 EAST
1/4" = 1'-0"



3 SHOWER 117 SOUTH
1/4" = 1'-0"



2 SHOWER 114 EAST
1/4" = 1'-0"



1 SHOWER 114 SOUTH
1/4" = 1'-0"

VENTURE ARCHITECTS
212 North 25th Street | Milwaukee, WI 53233
TEL (414) 271.3359
ventarch.com

Consultant:

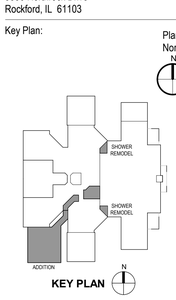
Project:

Winnebago County, IL

JUVENILE MENTAL HEALTH ADDITION

Location:
5350 Northrock Drive
Rockford, IL 61103

Key Plan:



KEY PLAN

Plan North
N

Sheet:

ENLARGED PLANS / INTERIOR ELEVATIONS

Revisions:

No.	Date:	Description:
2	6-16-26	Addendum 2

Date:
05/18/2026

Project No.:
240081.01

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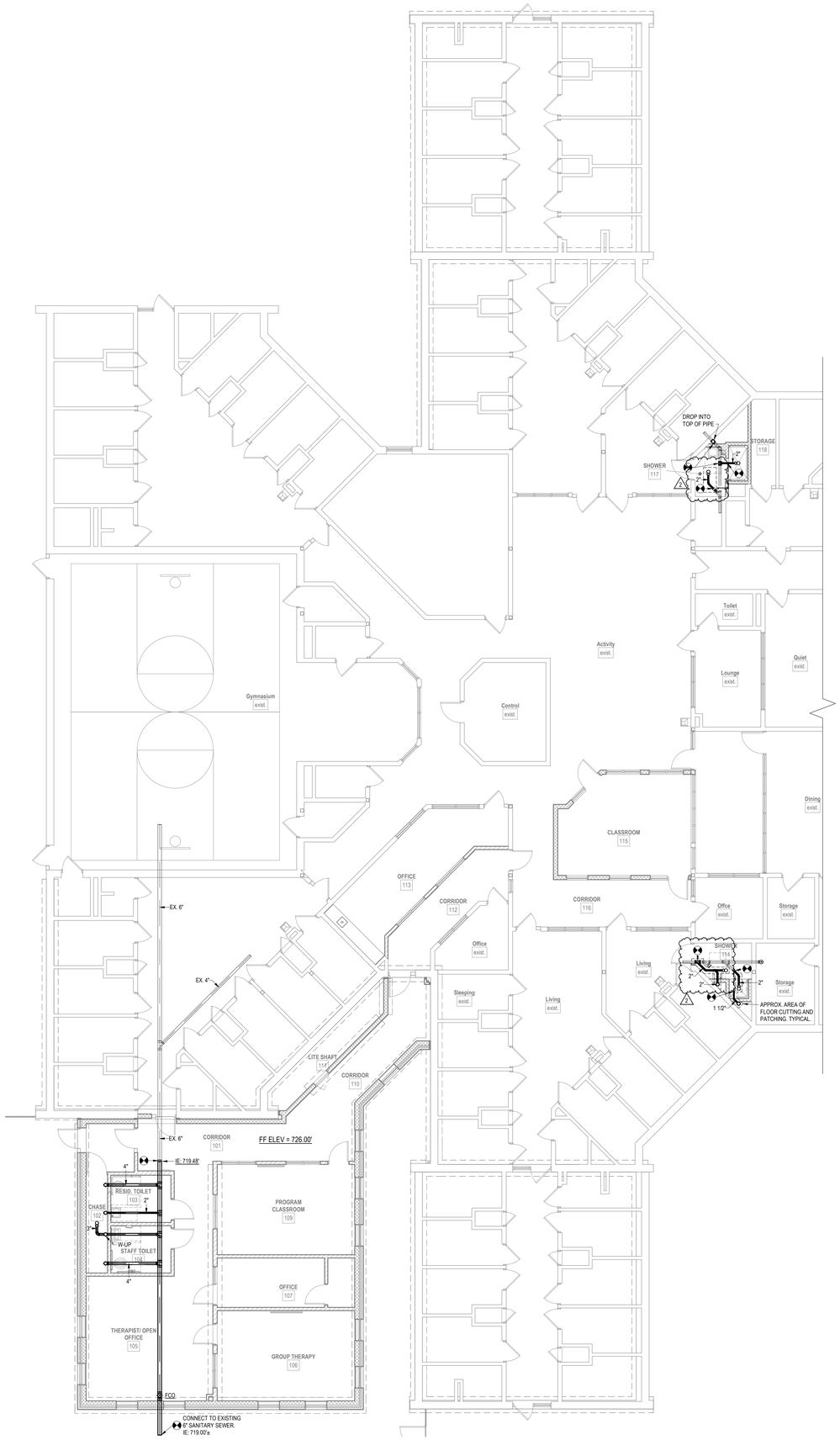
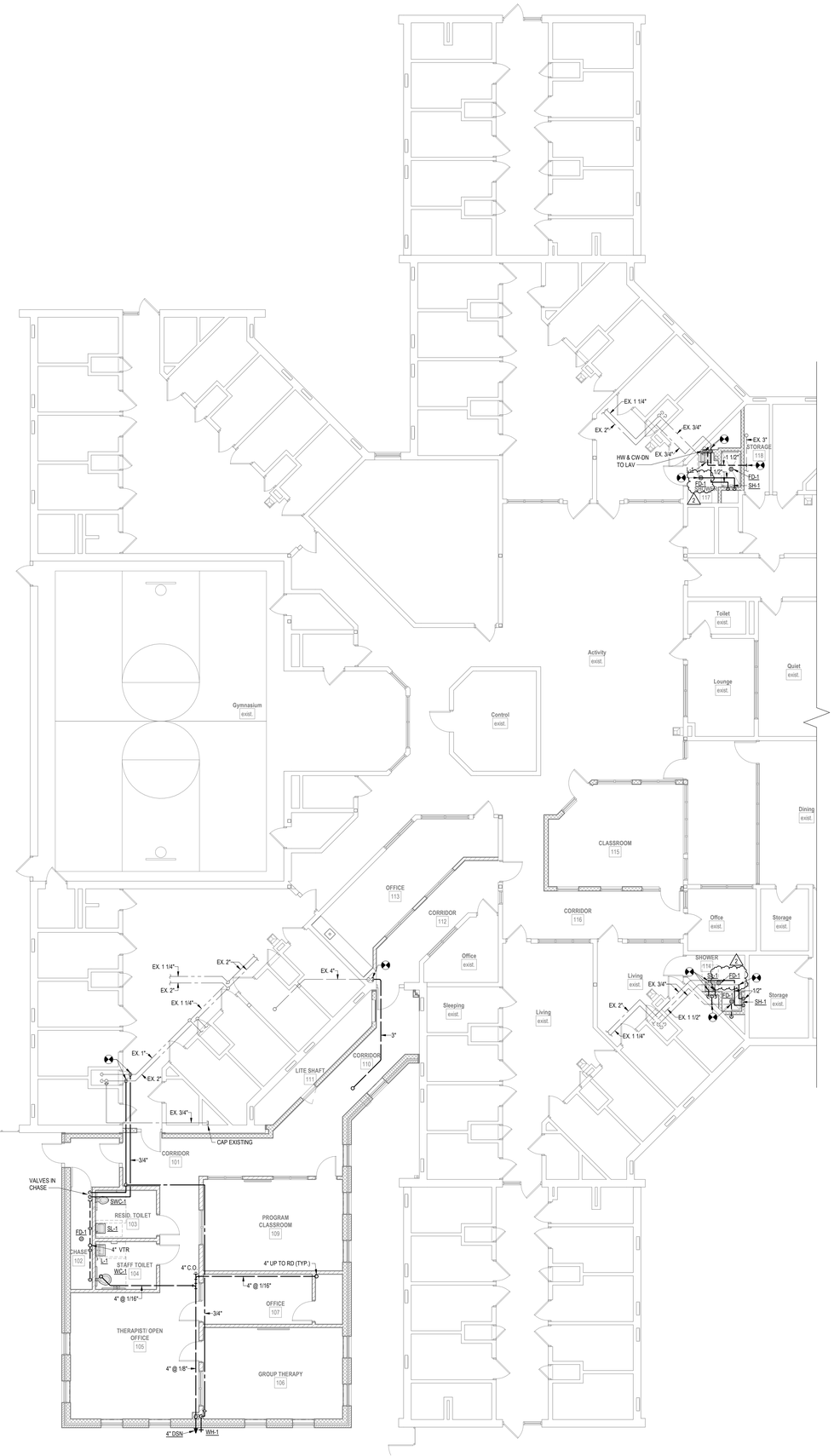
A601



1 FOUNDATION PLUMBING NEW WORK PLAN
1/8" = 1'-0"



2 FIRST FLOOR PLUMBING NEW WORK PLAN
1/8" = 1'-0"

VENTURE ARCHITECTS
212 North 25th Street | Milwaukee, WI 53233
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Consultant:

HARWOOD
255 N 21st Street Milwaukee, WI 53233 414-476-5554
HEC Project Number: 24-008101

Project:

Winnebago County, IL

JUVENILE MENTAL HEALTH ADDITION

Location:
5350 Northrock Drive
Rockford, IL 61103

Key Plan:

True North

Plan North

Sheet:

PLUMBING NEW WORK PLANS

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2	06/16/2026	Addendum 2

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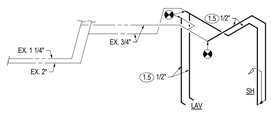
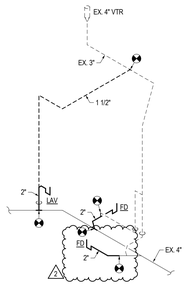
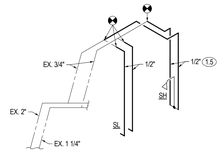


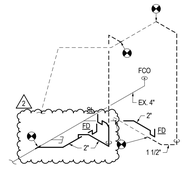
7 WATER PIPING ISOMETRIC - SHOWER 117
NTS



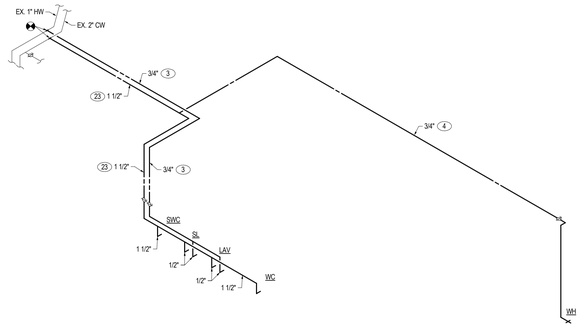
6 WASTE AND VENT PIPING ISOMETRIC - SHOWER 117
NTS



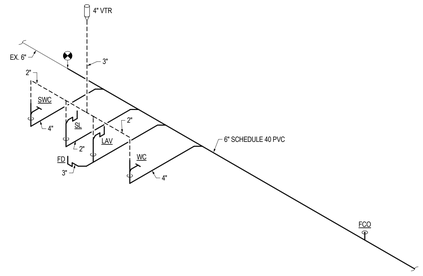
5 WATER PIPING ISOMETRIC - SHOWER 114
NTS



4 WASTE AND VENT PIPING ISOMETRIC - SHOWER 114
NTS



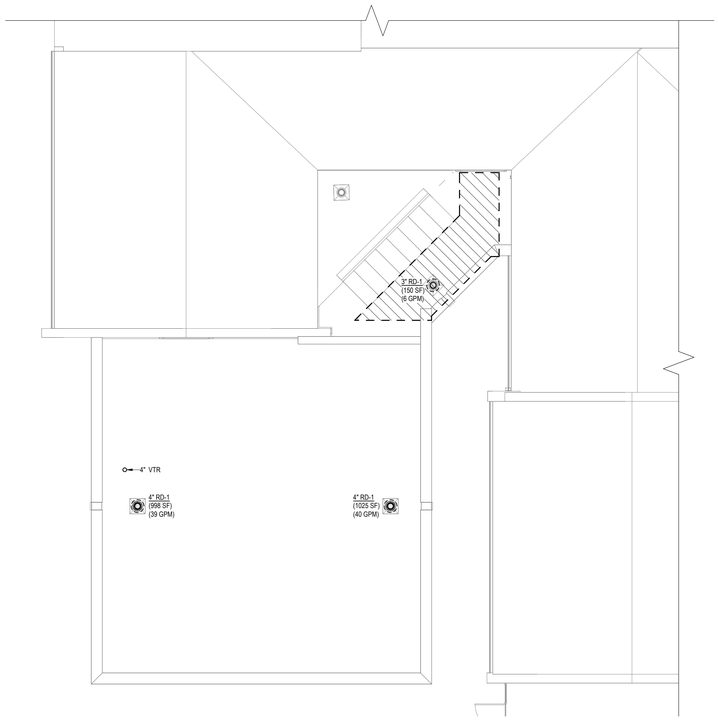
3 WATER PIPING ISOMETRIC - ADDITION
NTS



2 WASTE AND VENT PIPING ISOMETRIC - ADDITION
NTS

Calculate Pressure Available for Uniform Loss

B.	Available pressure near the point of connection					40
C.						
D.	Pressure required at controlling fixture (New Security Water Closet)					30
E.	Pressure loss due to elevation between building control valve and controlling fixture	0	x	0.434		0.00
F.	Pressure loss due to water treatment devices, instantaneous water heaters, and backflow preventers serving controlling fixture					0
G.	Developed length from building control valve to controlling fixture in feet Type L Copper	80	x	1.5		120
A.	Pressure available for uniform loss	=	B - (C + D + E + F) / G	X 100	=	8.33 **or 5 psi**



1 ROOF PLUMBING NEW WORK PLAN
1/8" = 1'-0"

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ROOF PLUMBING NEW WORK PLAN AND PLUMBING ISOMETRICS

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Date:
05/18/2026

Project No.:	Set Type:
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