

BURRIS/WAGNON ARCHITECTS, P.A.

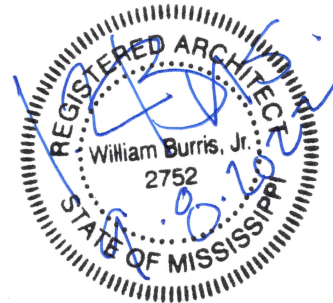
500 L EAST WOODROW WILSON AVENUE JACKSON MS 39216 PH 6019697543 FAX 6019699374

8 September 2022

ADDENDUM NO. 4

Re: **GS# 506-039**
Region 4 Administrative Facility
Hattiesburg, MS

Bid Date: September 13, 2022, 2:00 p.m., CST



NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, changes, and clarifications to the Specifications for the subject project are to be included as part of the Contract Documents, and thus amend the Scope of Work:

GENERAL

Item No. 1: A PRE-BID CONFERENCE was held on TUESDAY, August 30, 2022, 10:00 A.M., at 477 South Gate Road Hattiesburg, Mississippi (jobsite). See attached attendance list, Memorandum (Exhibit "C"), and Pre-Bid Meeting notes (Exhibit "D") presented by the Owner, and other items discussed and clarified below.

- A. Mr. Garry Stegall of the Bureau of Building discussed bid date and time, location, parking around Woolfolk Building, and noted that bid acceptance would be based on the Bureau's official time clock at the desk in the lobby of the 14th floor of Woolfolk Building. If sending Bid by FedEx, bid must be received by the advertised Bid Time of 2:00 PM. Mr. Stegall summarized parts of Section 00100 Instructions to Bidders in the attached Exhibit "C", and noted that Contractors shall thoroughly review the entire Section 00100, including all bidding requirements at Section 00100 Instructions to Bidders (including, but not limited to, the following):
1. The Bureau of Building is the Owner for this Project. The Contract will be between the Bureau and the Contractor.
 2. Bidder should allow time to pass through security at Woolfolk Building.
 3. Certificate of Responsibility number shall be written on outside of envelope. Any modifications to Bid must be made prior to the scheduled Bid time by writing on the outside of the sealed envelope containing the Bid (see Section 00100/3.02).
 4. Bid Bonds must also have Power of Attorney attached. Bond is not required if a certified check is used instead. Bid Security is 5%. See Section 00100/2.08.
 5. Written words supersede numbers written on Proposal Form.
 6. Bidder must acknowledge all addenda on the Proposal Form.
 7. Out-of-State Contractors shall include their state's reciprocating law in bid

envelope, OR a letter stating the Contractor's state has no resident Contractor preference law (see Section 00100/1.03).

8. Bidders have 24 hours to review bids and report any problems or irregularities, and also to protest bids (see Section 00100/4.03, 4.04).
 9. Mr. Stegall and the Architect also noted that any bidder interested in submitting his bid electronically must pre-register in Magic. See also attached Memorandum (Exhibit "C") regarding electronic bidding.
- B. Mr. Stegall noted that all questions shall be sent directly to the Professional. It was noted that all Addenda shall be a part of the Contract, and there shall be no addenda issued within 48 hours of the Bid: **last addendum must be released by 5:00 PM, CST, Thursday, September 8, 2022.** Any Bid protests shall be sent directly to the Bureau of Building, Grounds, and Real Property Management within 24 hours of the Bid. Contractor please note on the last page of the Proposal Form, page 8, in the Mechanical/Electrical Contractors section, that the blanks **MUST BE FILLED IN** (if none, write "N/A" in appropriate blank(s)). The subcontractors listed on the Bid Form **MUST** be used for the Project.
- C. Architect discussed Contract Time and the Proposal Form, reiterating the fact that all relevant subcontractor blanks must be filled in. Contractor's company name on proposal form is to match exactly that listed with Secretary of State's office and the State Board of Contractors. Certificate of Responsibility number must be listed with the State of Mississippi.
- D. Architect discussed the overall planning concepts of the Project, describing the construction systems designed into the project, noting that there is a Base Bid and no alternates. He also noted that the Contractor should be aware that the Base Bid Assumptions listed on Sheet TS of Drawings shall be included in the Base Bid. Unit Prices, described on Sheet TS, shall be filled in on Proposal Form.

Item No. 2: Clarification: The Commissioning Agent for the Project is SinergiBuilding Sciences, LLC, P.O. Box 4297 Jackson, MS 39296 PH: (601) 668-8781.

Item No. 3: Clarification: The Project does not have an HVAC controls allowance.

Specifications:

Item No. 1: Refer to Specification **Section 101400** Signage, attached Signage Schedule and revise so that 114 Men, door location 11 is to receive **Sign Type 3** and 115 Women, door location 12 is to receive **Sign Type 4**.

Item No. 2: Refer to Specification **Section 08 41 13/1.04/B.**, and replace paragraph "B." as follows:
"B. Field testing requirements (tests shall be paid for by the window subcontractor and conducted by an AAMA-accredited and certified testing agency): Schedule and facilitate one (1) ASTM E1105 chamber test after the first window is installed. After seven (7) windows have been installed, schedule and facilitate one (1) ASTM E1105 test on the seventh installed window, as well as an AAMA 501.2 Spray Nozzle test on two (2) other installed windows (those not tested by the E1105 test)."

- Item No. 3:** Refer to Specification **Section 01 91 15** and replace in its entirety with the attached **Exhibit “B”**.
- Item No. 4:** **Clarification:** Refer to **Section 26 02 20/A./2.**, for description of the Utilities Allowance to be included in the bid of the Division 26 Contractor.

Drawings:

- Item No. 1:** Refer to **Sheet 4.0**, and replace in its entirety with the attached Exhibit “A”.
- Item No. 2:** All T.O.C. elevations associated with **Detail “19/1.1” on Sheet 1.0, Site Plan**, should read **T.O.W.**
- Item No. 3:** Refer to **Sheet E100**; For bidding purposes, revise the location of **Panel LB** and route of its new underground feeder to be at the northeast corner of the existing metal building instead of the northwest corner. Verify this location prior to this new construction work.
- Item No. 4:** Refer to **Sheet 3.0, Finish Schedule**, Room 109 “Electrical” to receive LVT flooring in lieu of carpet tile.
- Item No. 5:** Refer to **Sheet 1.0, Site Plan Legend**, and change the following:
“CONTRACTION/CONTROL JOINT – SEE “10/1.1” TYP.” to read
“CONTRACTION/CONTROL JOINT – SEE “13,14/1.1” and
“EXPANSION JOINT – SEE “12/1.1” TYP.” to read
“EXPANSION JOINT – SEE “16/1.1” TYP.”.
- Item No. 6:** Refer to **Sheet 1.0, Keyed Site Notes**, Note 12, and replace with the following:
“Existing Building will be removed by the Using Agency upon the issuance of a Notice to Proceed (Contractor’s subs shall disconnect/cap existing utilities). The Using Agency will not occupy the site for the duration of the Project.”

No other items in this addendum.

Sincerely,



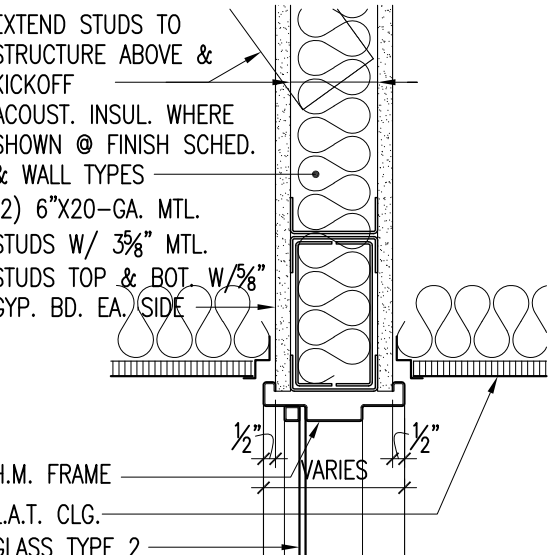
Bill Burris, AIA

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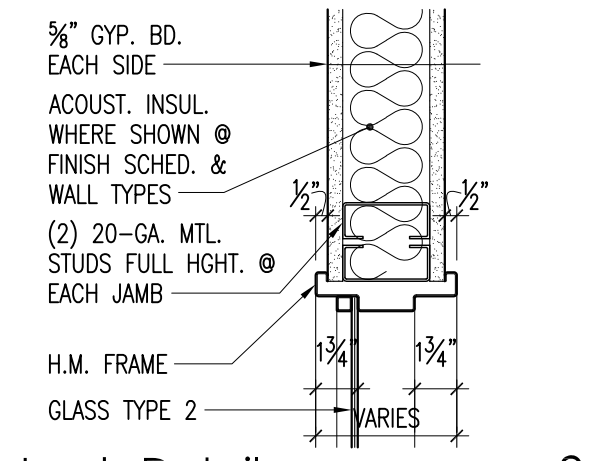
End of Addendum No. 4

Door Schedule

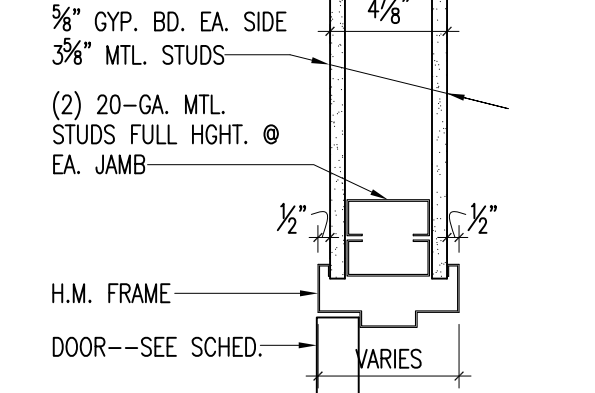
Mark	Size	Door Type	Rating (Door & Frame)	Material	Head	Jamb	Threshold	Frame Type	Frame Depth	Remarks
01 (PR)	3' 0" x 7' 0" x 1 1/4"	A		ALUM.	*	*	30/4.0	2	4 1/2"	*SEE WINDOW TYPE
02	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
03	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
04	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
05	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
06	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
07	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
08	3' 0" x 7' 0" x 1 1/4"	A		ALUM.	27/4.0	28/4.0	30/4.0	2	4 1/2"	
09	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
10	3' 0" x 7' 0" x 1 1/4"	C		SCWD.	19/4.0	20/4.0	3/4.0	1	5 1/2"	
11	3' 0" x 7' 0" x 1 1/4"	C		SCWD.	21/4.0	22/4.0	4/4.0	1	8 1/2"	
12	3' 0" x 7' 0" x 1 1/4"	C		SCWD.	21/4.0	22/4.0	4/4.0	1	8 1/2"	
13	3' 0" x 7' 0" x 1 1/4"	C		SCWD.	21/4.0	22/4.0	-	1	7"	
14	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	9/9.1	3/4.0	1	8 1/2"	*SEE WINDOW TYPE
15	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
16	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
17	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
18	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
19	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	*	*SEE WINDOW TYPE
20	3' 0" x 7' 0" x 1 1/4"	D		SCWD.	*	*	3/4.0	1	5 1/2"	*SEE WINDOW TYPE
21	3' 0" x 7' 0" x 1 1/4"	C		SCWD.	19/4.0	20/4.0	3/4.0	1	5 1/2"	
22	3' 0" x 7' 0" x 1 1/4"	C		SCWD.	19/4.0	20/4.0	3/4.0	1	5 1/2"	
23 (PR)	3' 0" x 7' 0" x 1 1/4"	B		HOL. MTL.	23/4.0	24,25/4.0	33/4.0	1	15"	



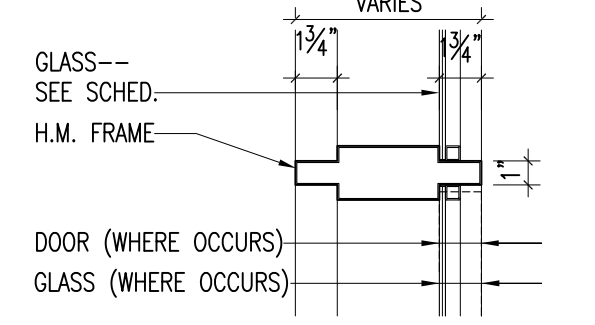
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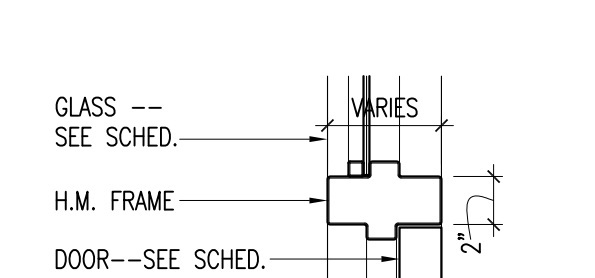
Jamb Detail 1 1/2"



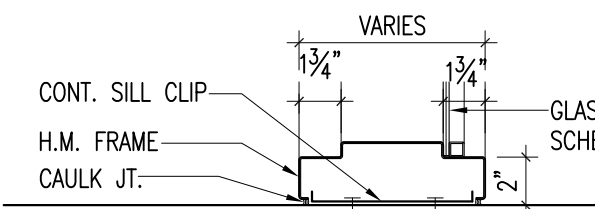
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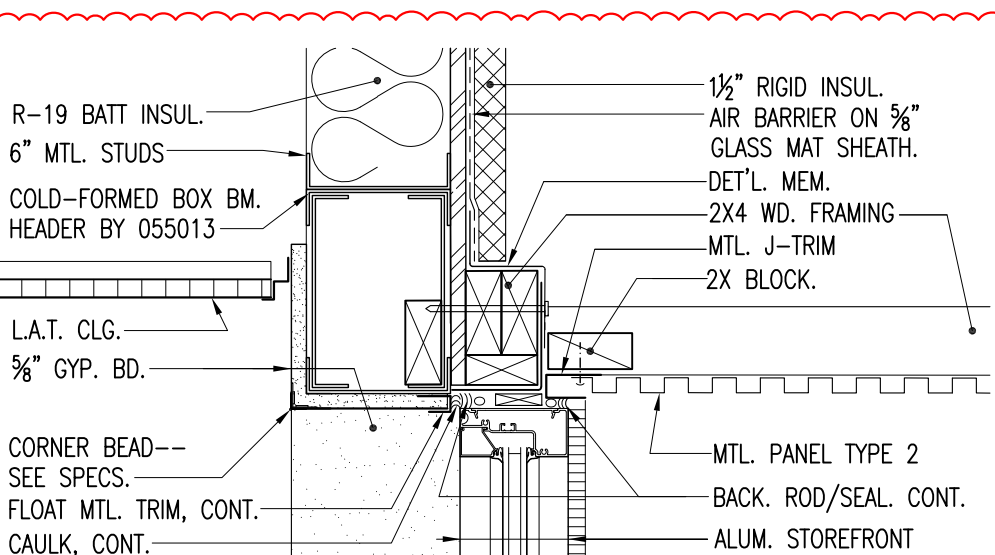
Mullion Detail 1 1/2"



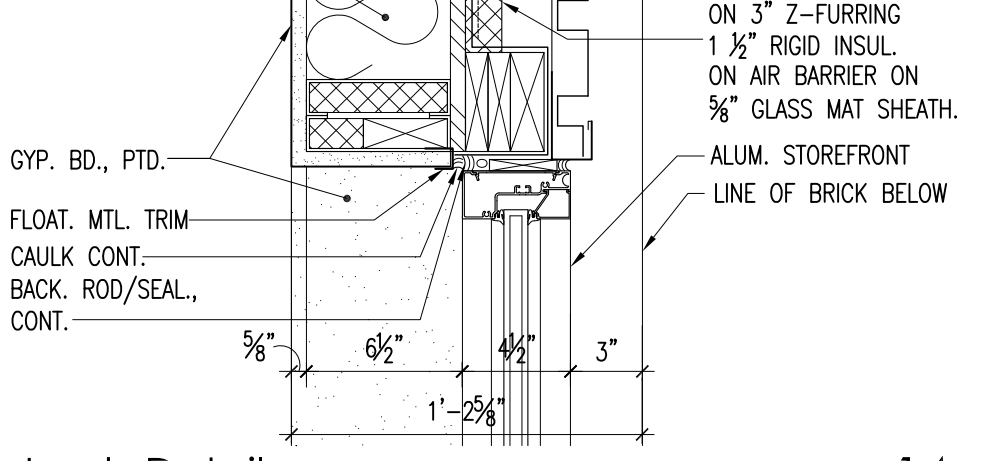
Mullion Detail (H.M. Frame) 1 1/2"



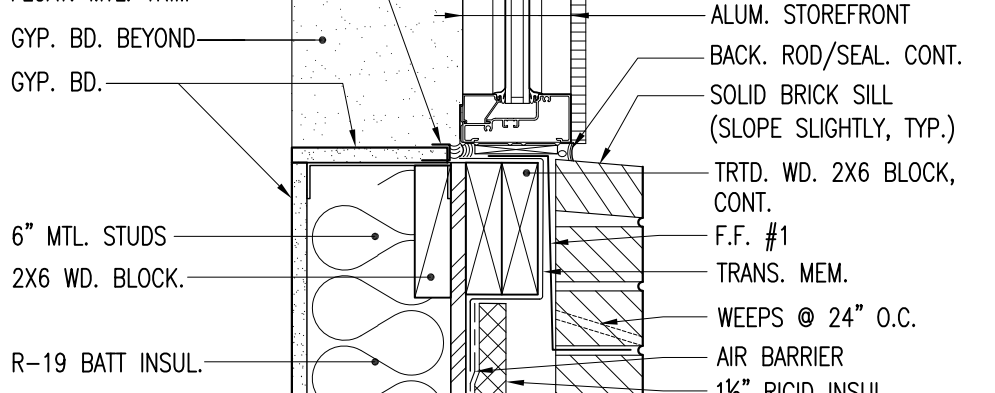
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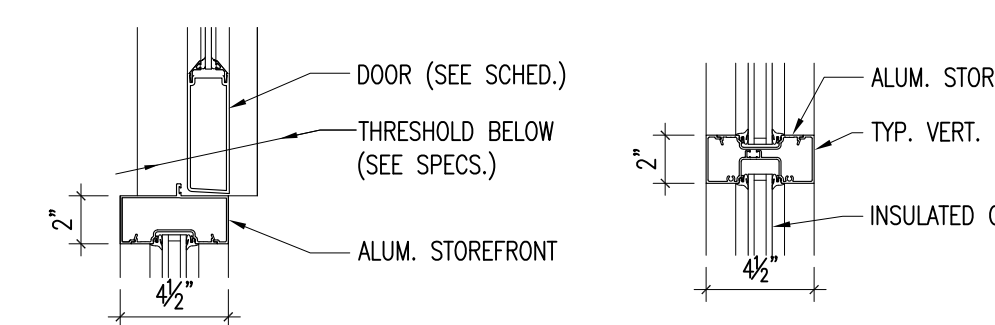
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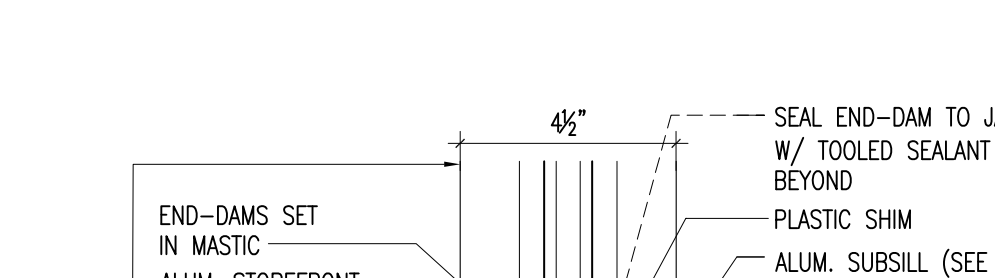
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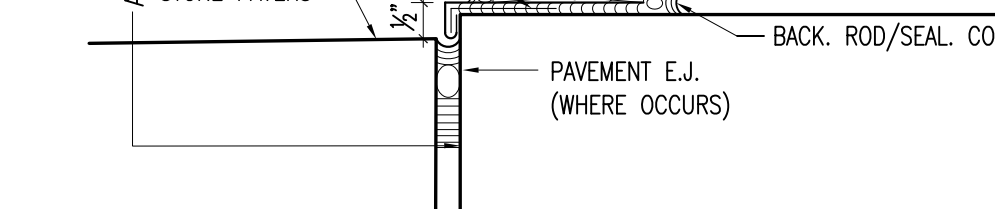
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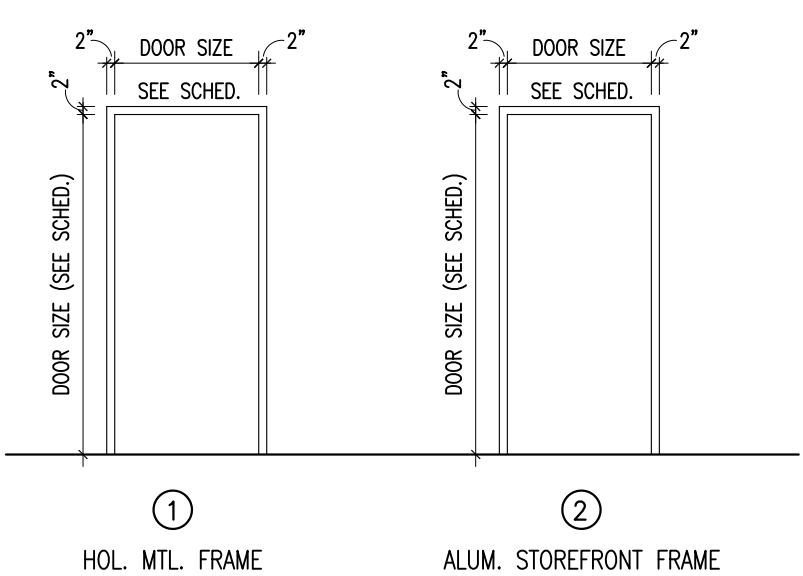
Jamb Detail 1 1/2"



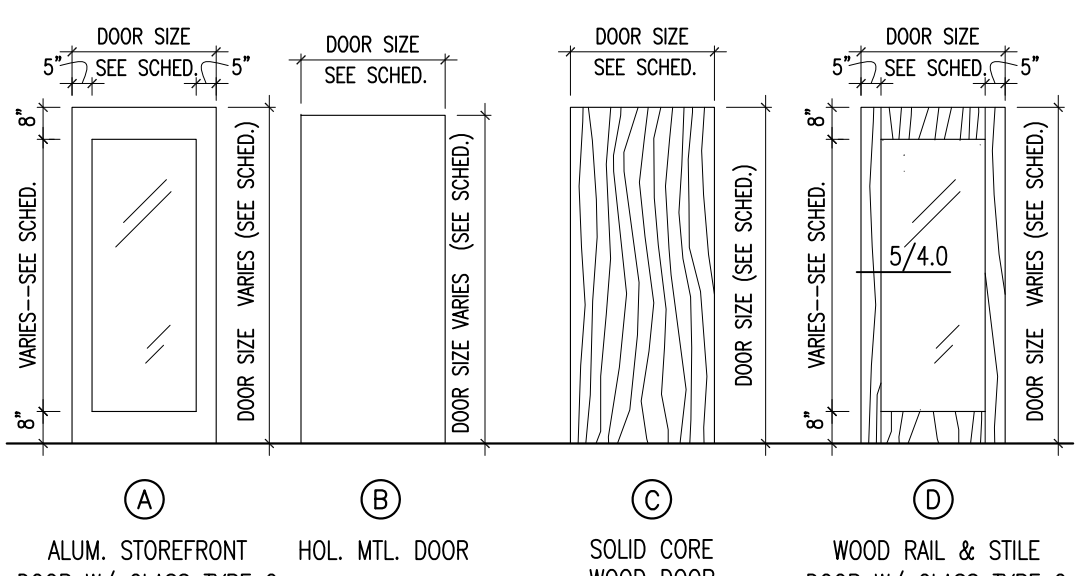
Mullion Detail (Storefront) 1 1/2"



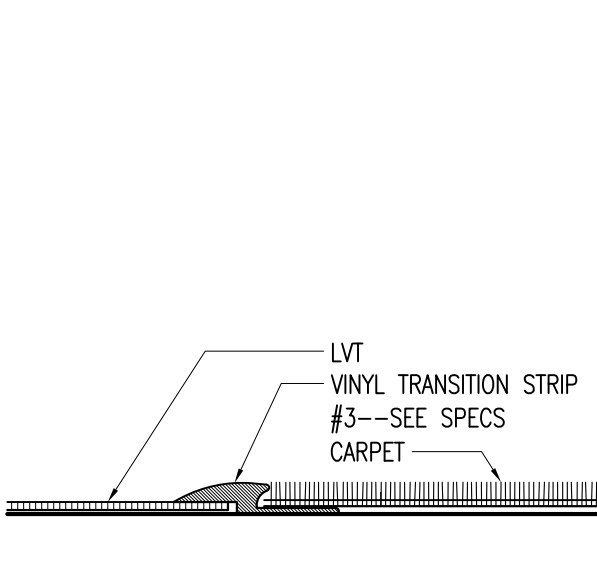
Subsill Detail 1 1/2"



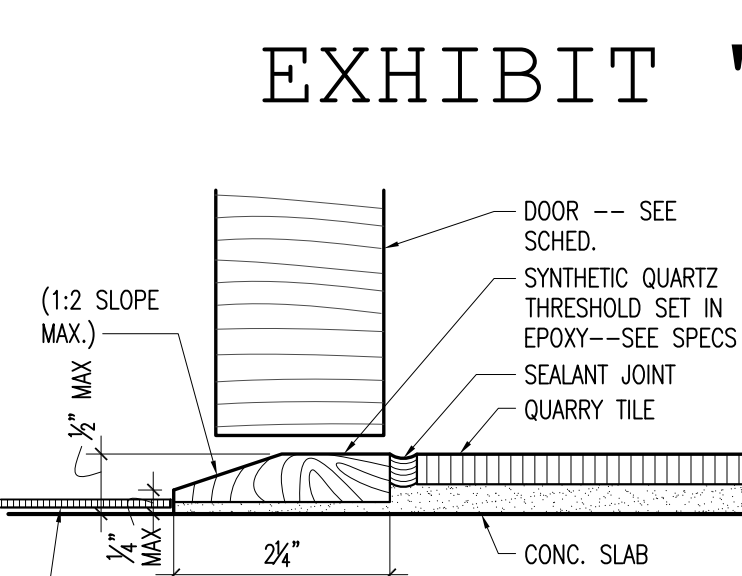
Door Frame Types 1 1/4"



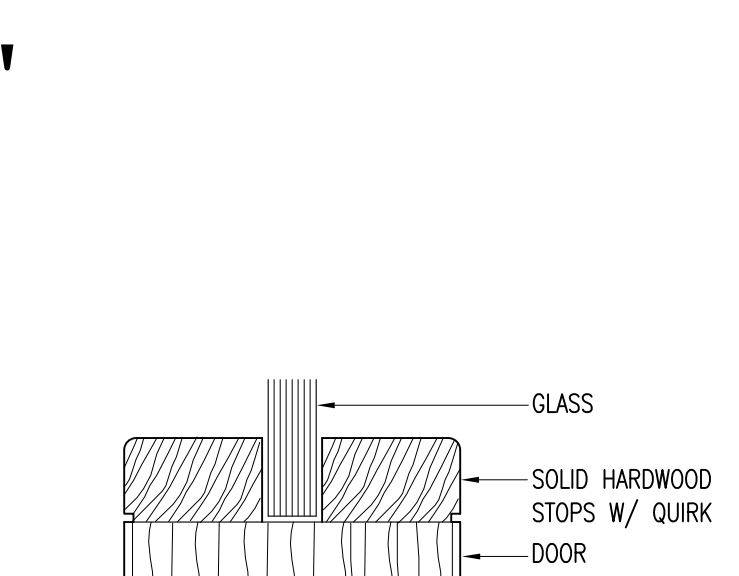
Door Types 2 1/4"



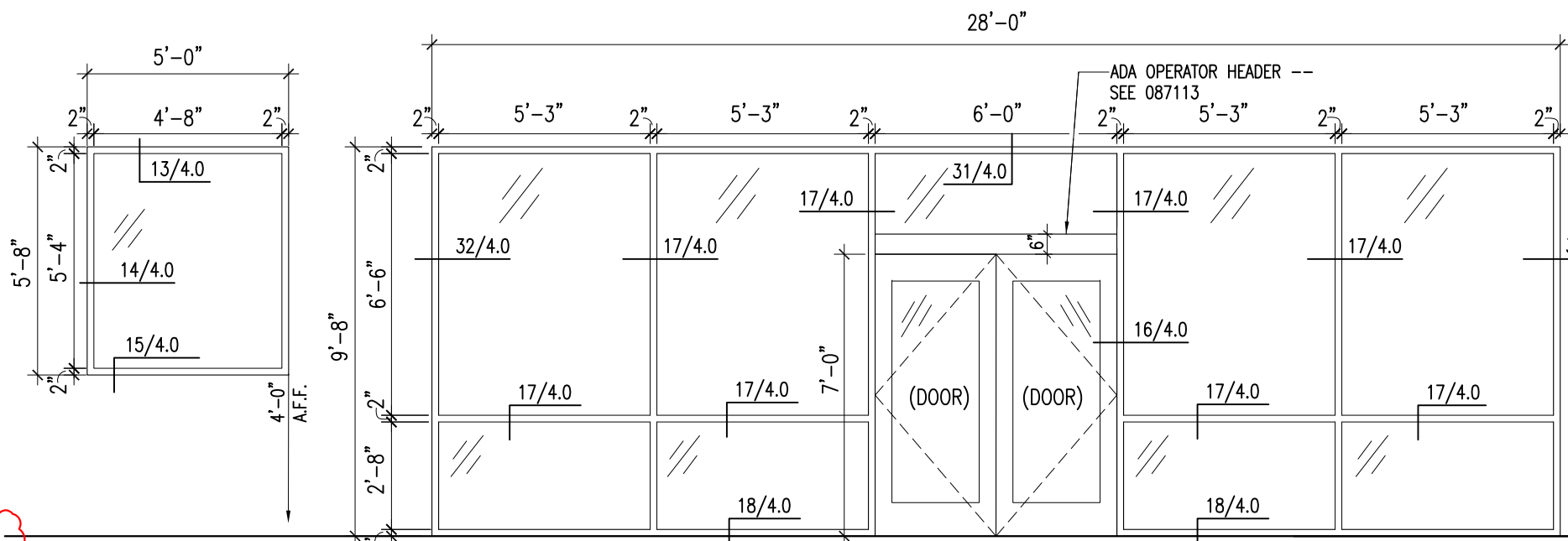
Transition Detail LVT to Carpet 6"



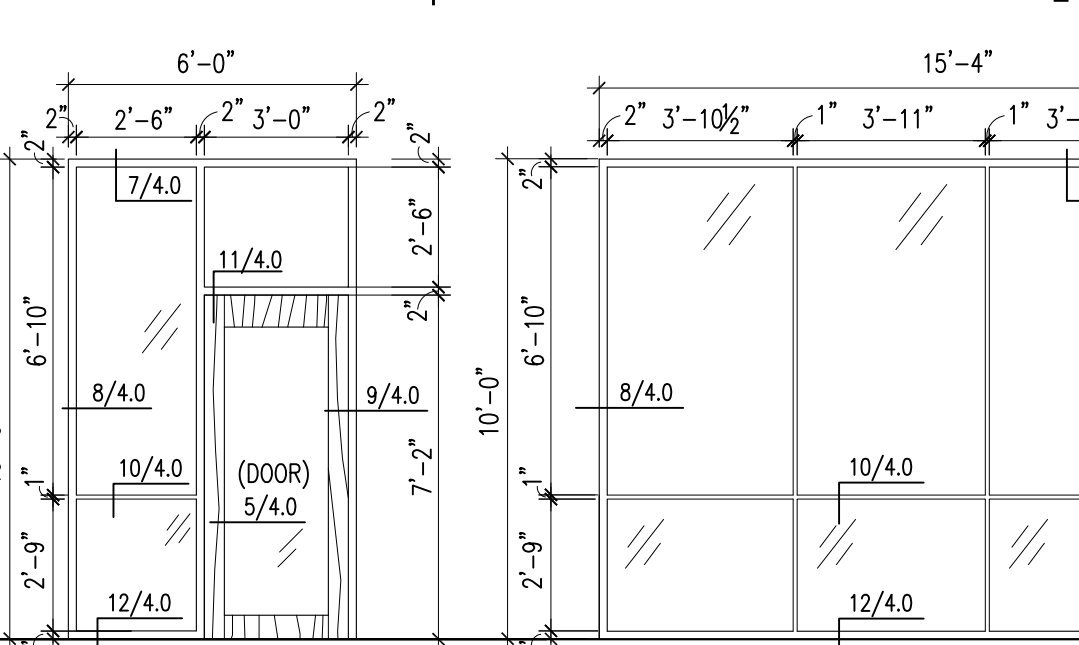
Transition Detail LVT to Ceramic Tile 6"



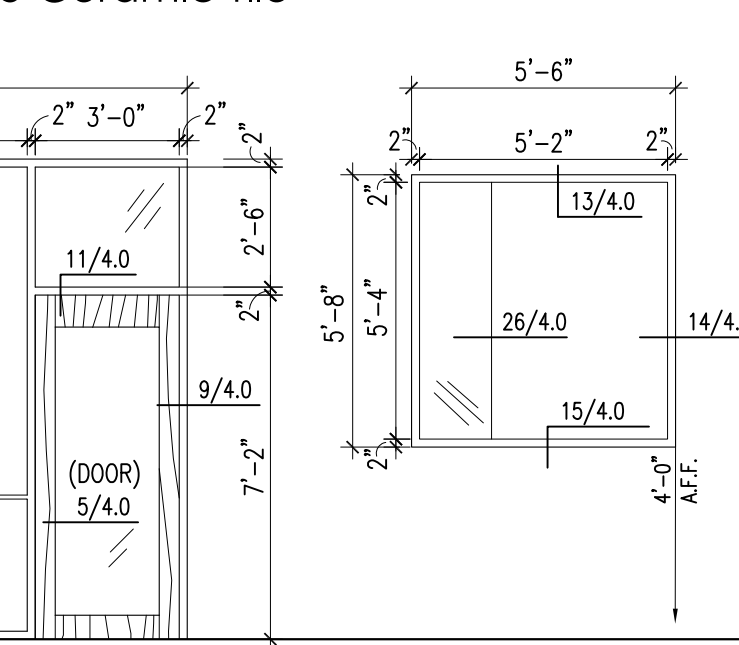
Wood Stop Detail 1:1



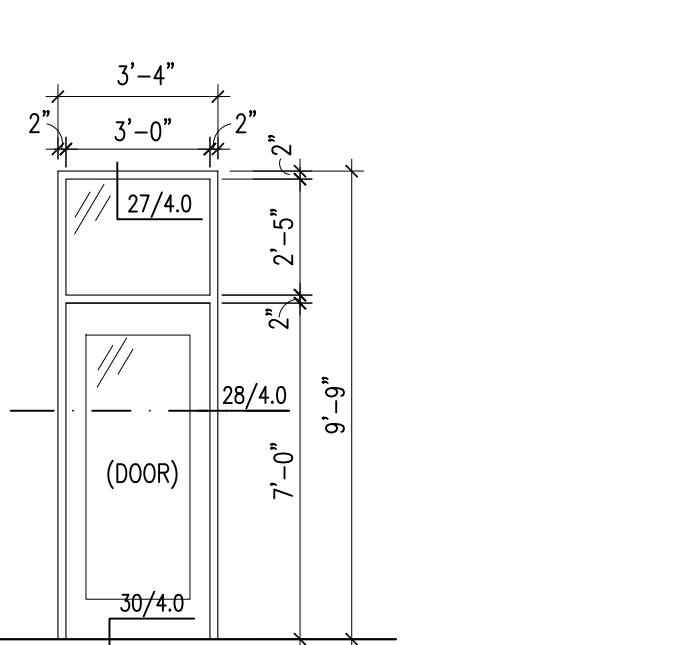
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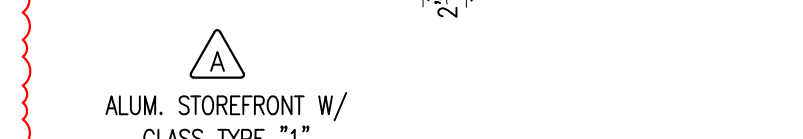
Window Types 1 1/4"



Window Types 1 1/4"



Window Types 1 1/4"



Window Types 1 1/4"



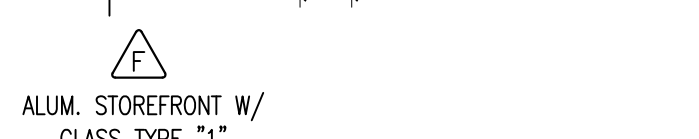
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Window Types 1 1/4"



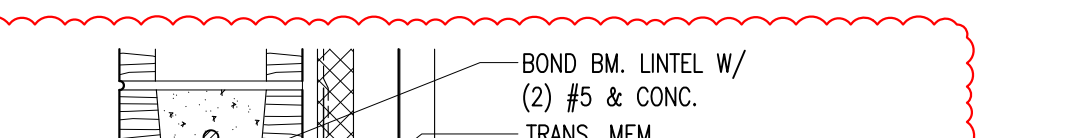
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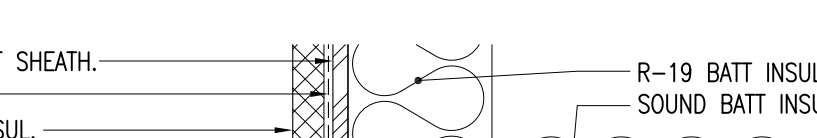
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Window Types 1 1/4"



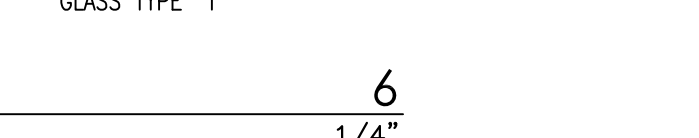
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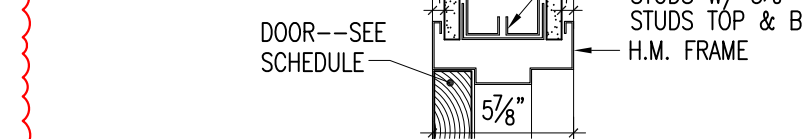
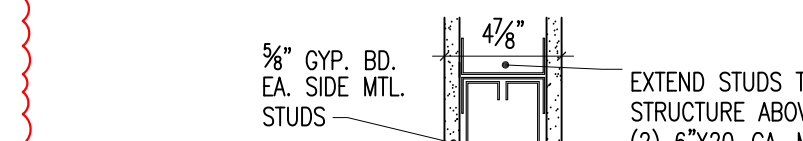
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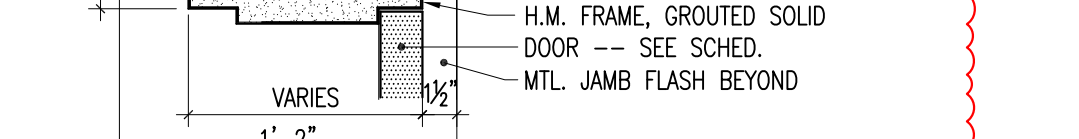
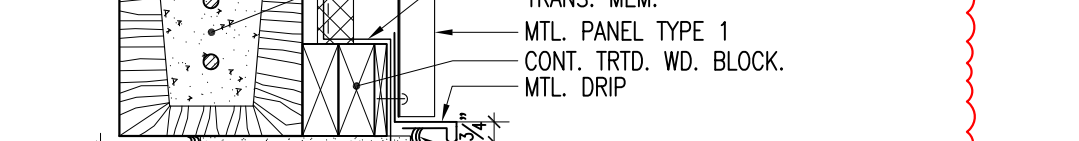
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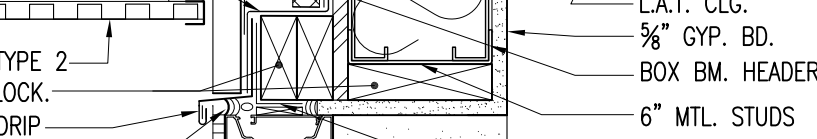
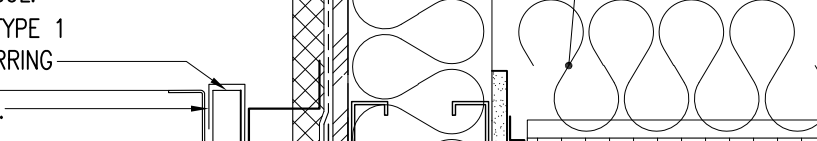
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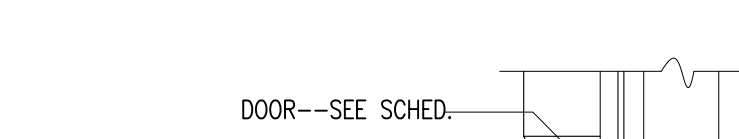
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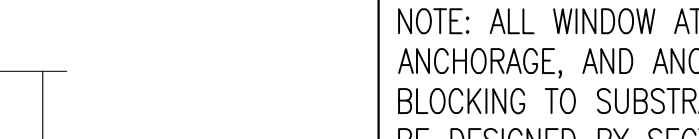
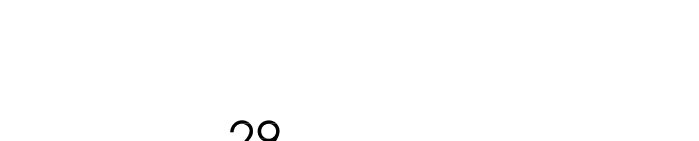
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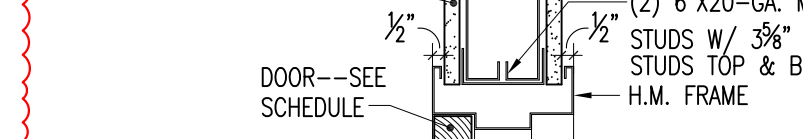
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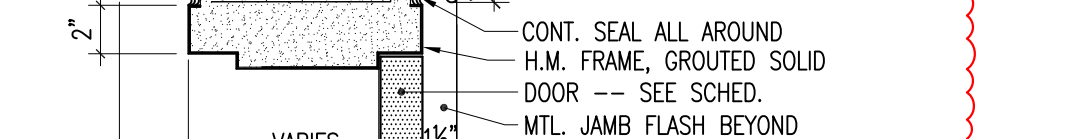
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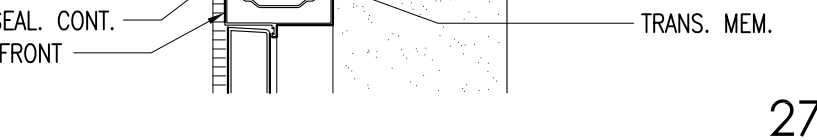
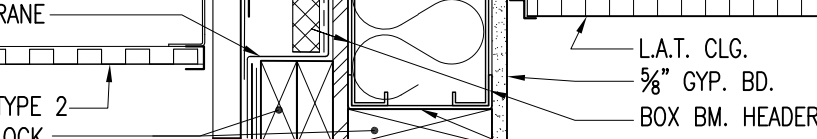
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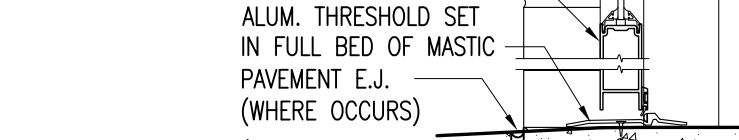
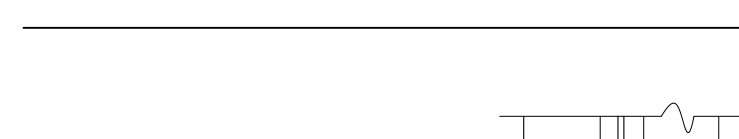
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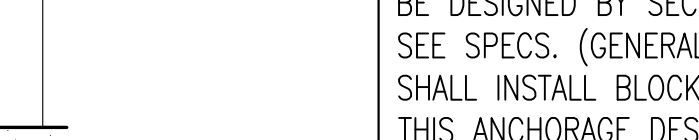
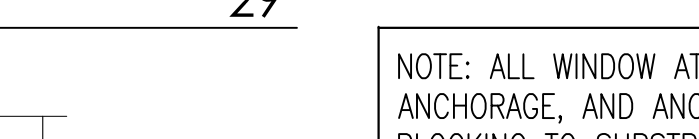
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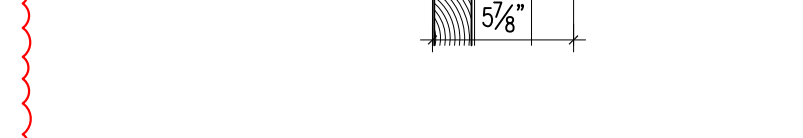
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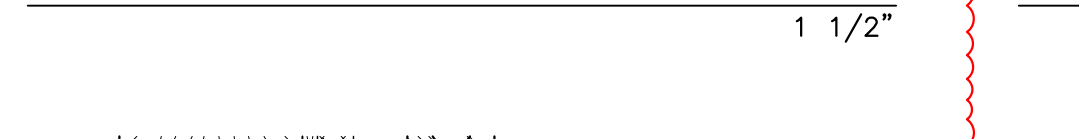
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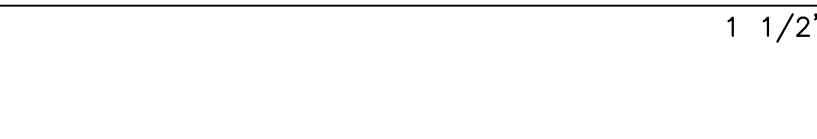
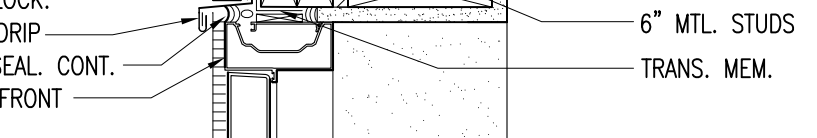
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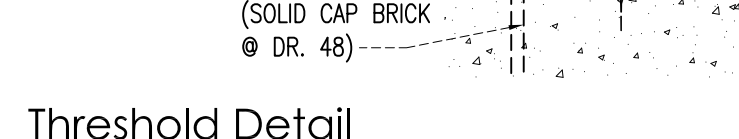
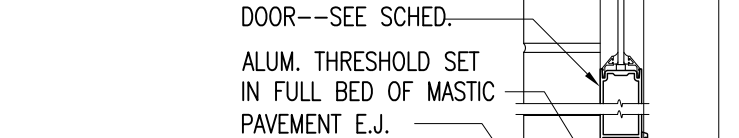
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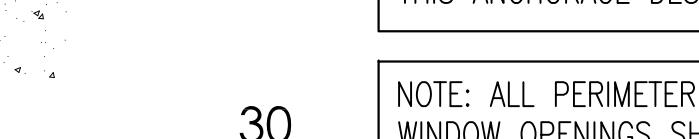
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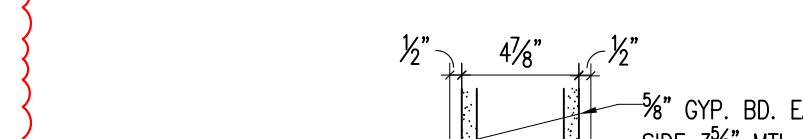
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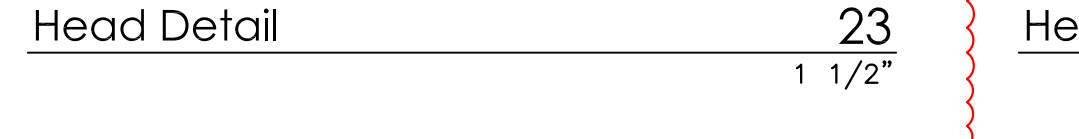
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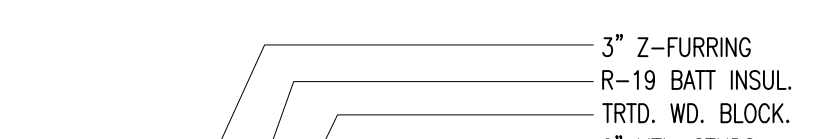
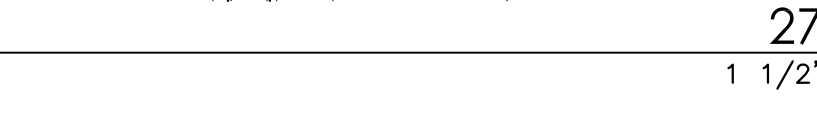
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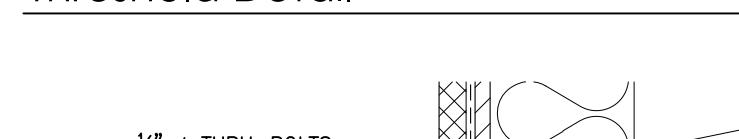
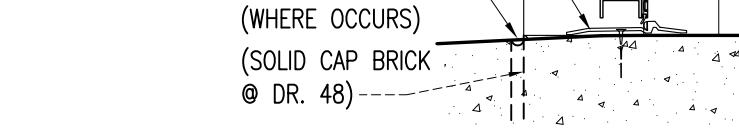
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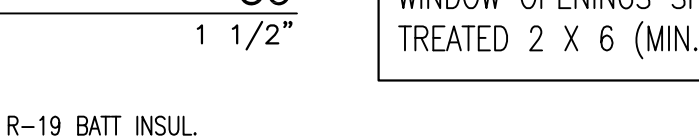
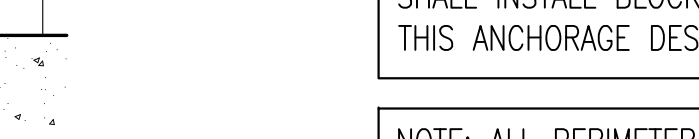
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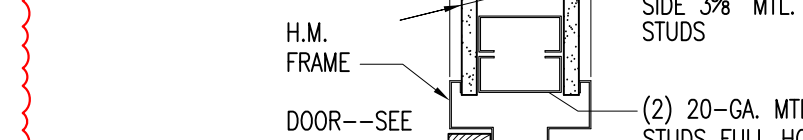
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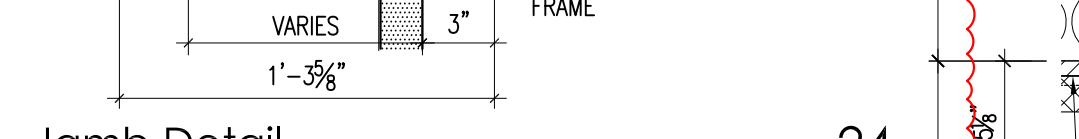
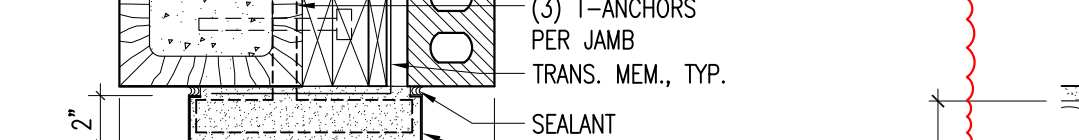
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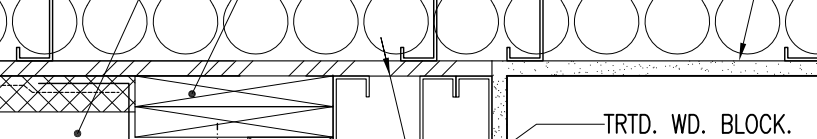
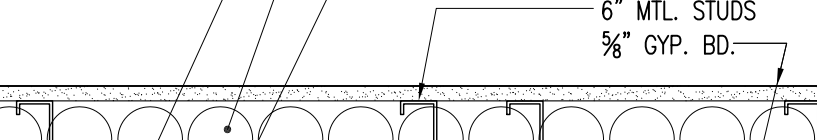
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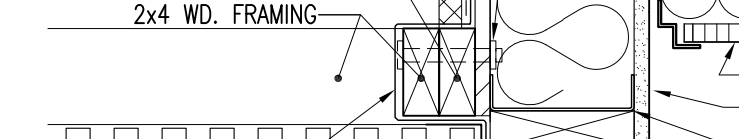
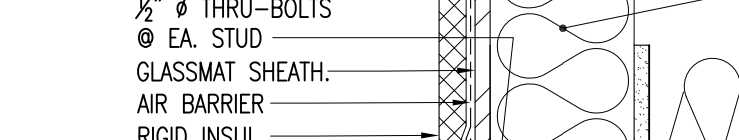
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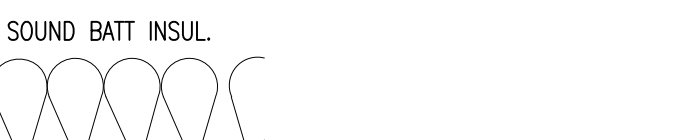
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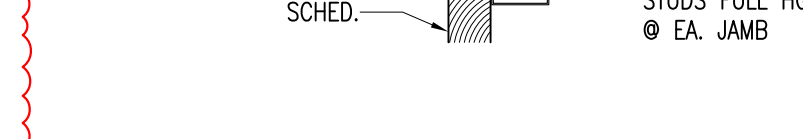
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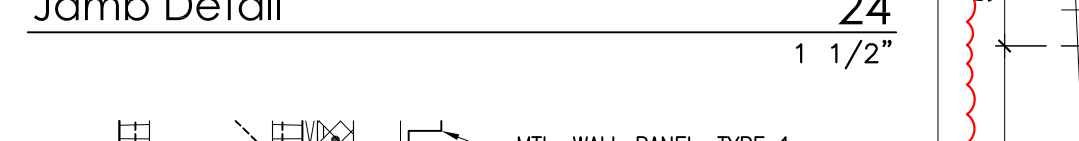
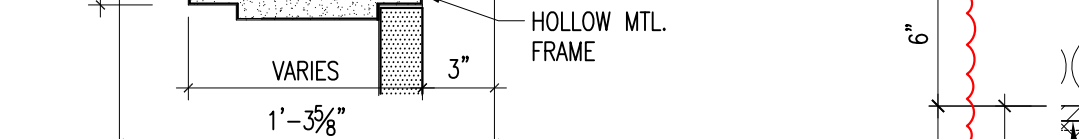
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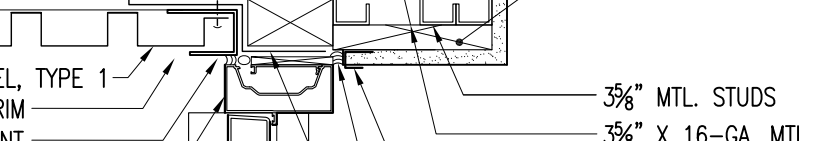
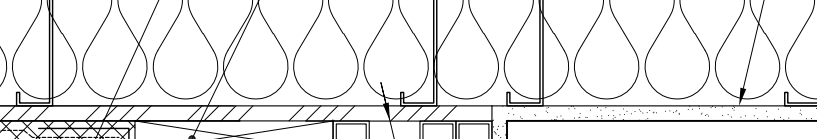
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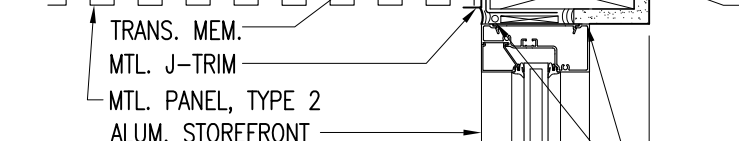
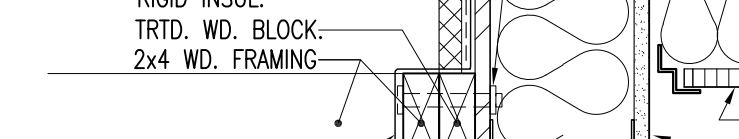
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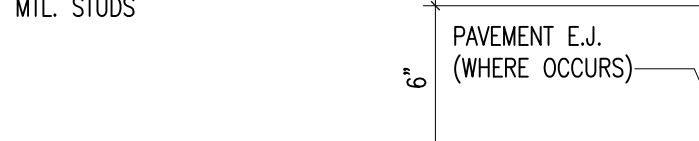
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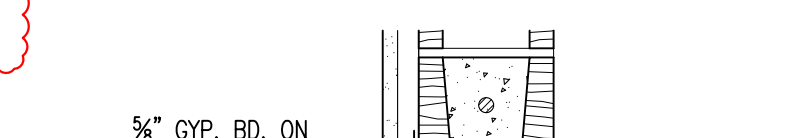
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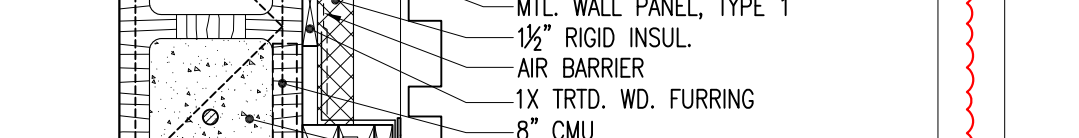
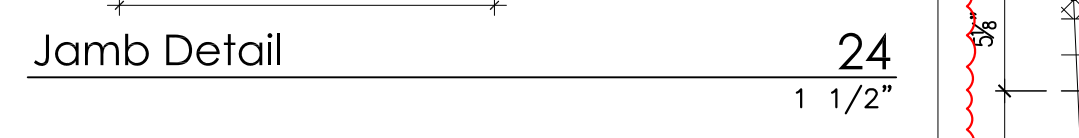
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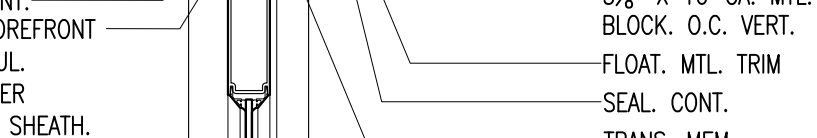
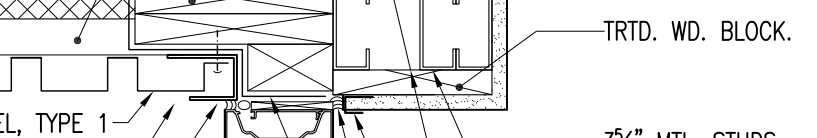
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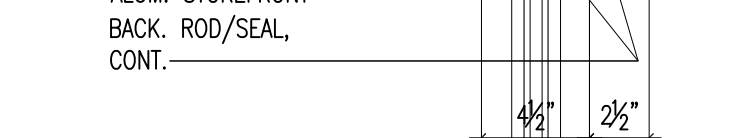
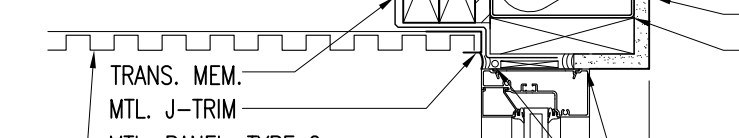
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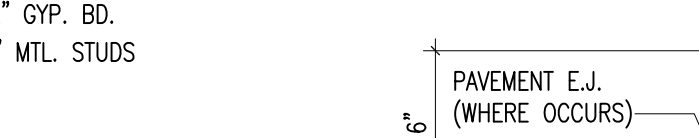
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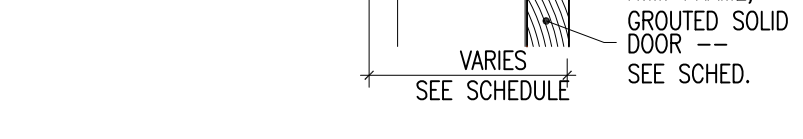
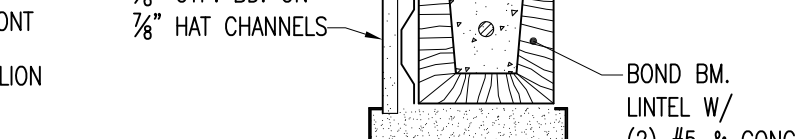
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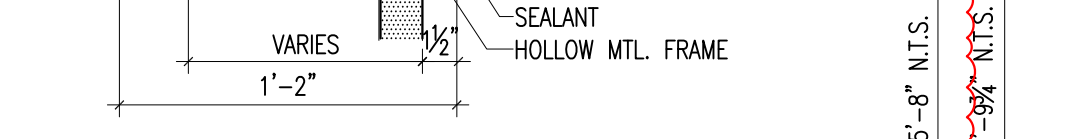
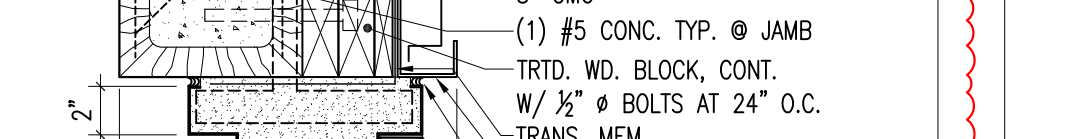
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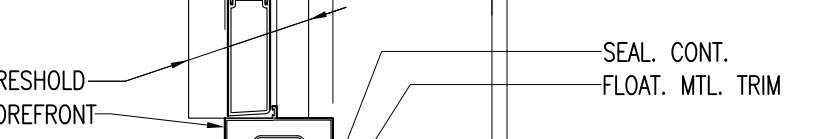
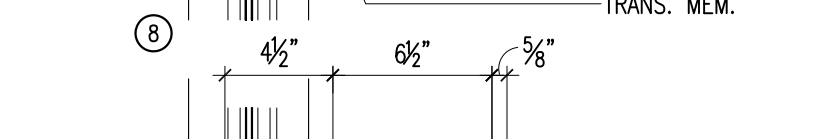
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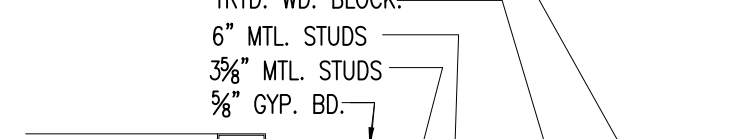
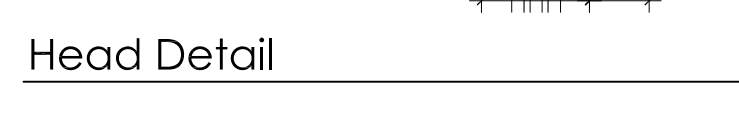
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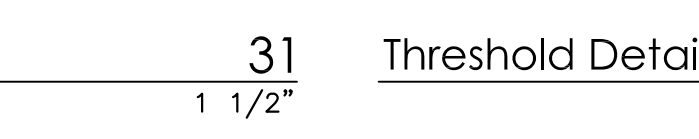
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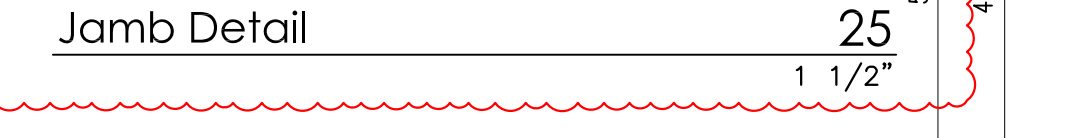
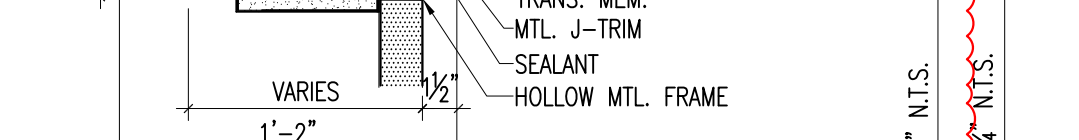
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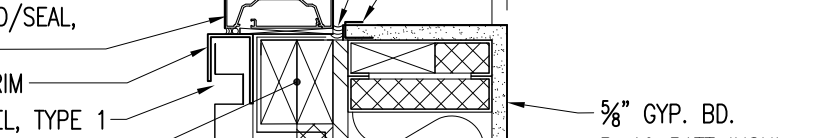
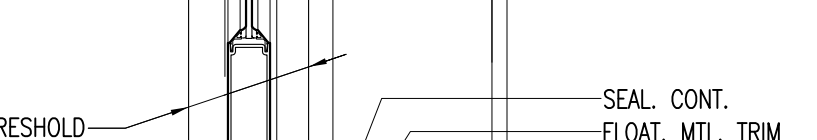
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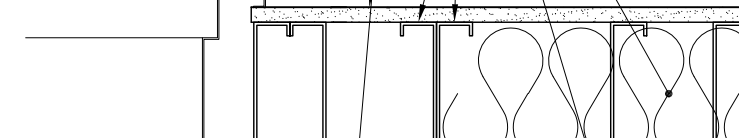
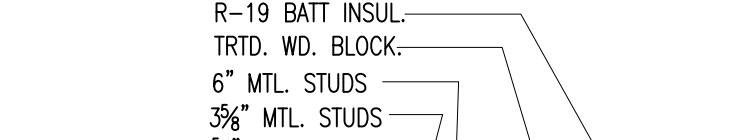
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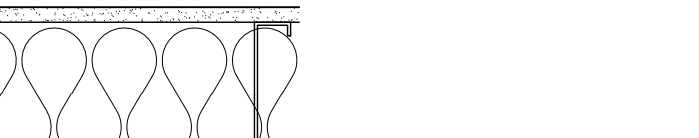
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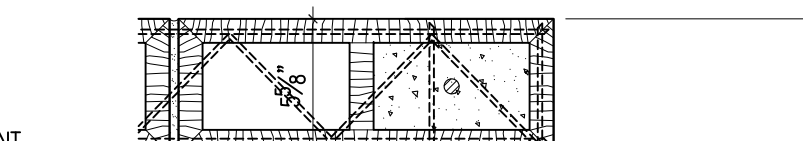
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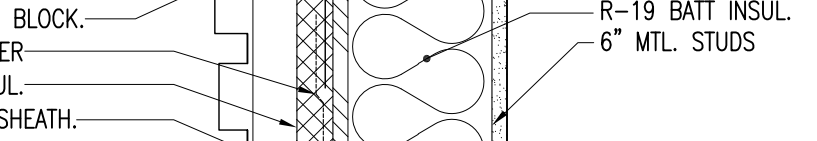
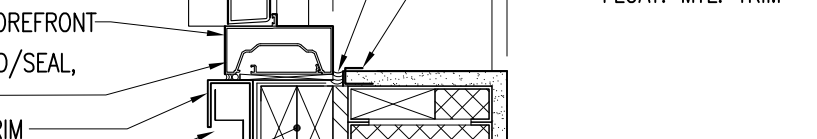
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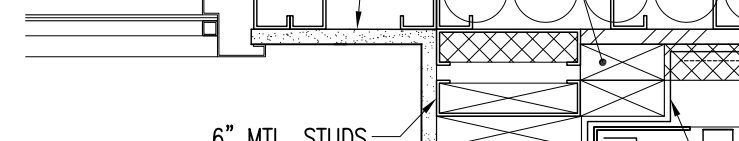
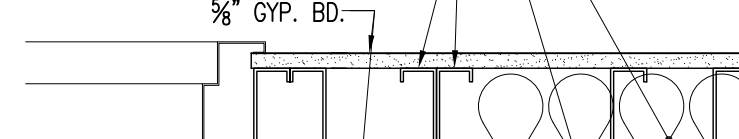
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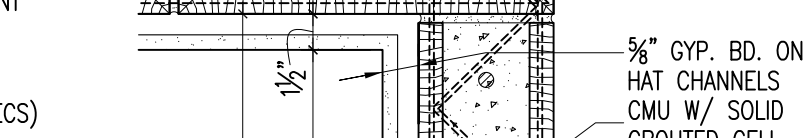
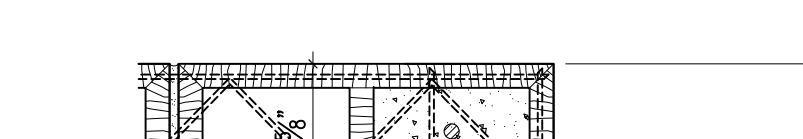
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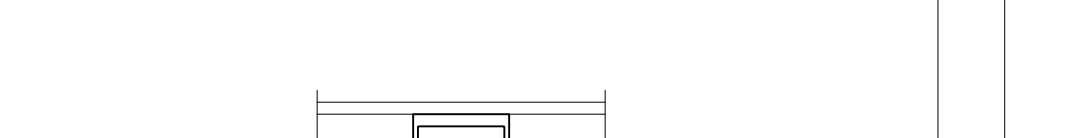
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SECTION 019115 - BUILDING EXTERIOR ENCLOSURE COMMISSIONING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes general requirements and procedures for building exterior enclosure commissioning, including exterior opaque wall systems, exterior glazed wall systems, party walls, waterproofing systems, air and moisture barrier systems, and roofing construction that protect climate-controlled interior spaces from unconditioned spaces and the exterior environment, as follows:
 - 1. Below-grade construction including foundations and slab-on grade that functions as part of the exterior enclosure system but excluding structural systems and components
 - 2. Superstructure floor and roof construction that functions as part of the exterior enclosure system
 - 3. Exterior enclosure construction, above grade, including exterior opaque walls, windows, and doors including sheathing, framing, and insulation, and interior finish materials attached to the exterior wall
 - 4. Roofing, including roofing system, roofing insulation, and skylights, hatches and other roof openings
- B. Related Requirements:
 - 1. Section "General Commissioning Requirements" for general requirements for commissioning including definitions, commissioning team membership, Government's responsibilities, Contractor's responsibilities, and commissioning authorities' responsibilities.
 - 2. Divisions 03, 04, 07, and 08 Sections for building exterior enclosure commissioning requirements specific to the Work of each Section.
- C. The purpose of the building exterior enclosure commissioning is to provide a process for independent, third-party verification that the installed performance of the building exterior enclosure meets or exceeds the minimum performance requirements set forth by the Contract Documents.
 - 1. The commissioning plan includes by reference all requirements set forth by the Architect for preconstruction laboratory and field performance testing of the materials, components, systems, and assemblies that comprise the building exterior enclosure.
 - a. Full and complete compliance with the building exterior enclosure performance requirements for this project is required to achieve successful commissioning of the building exterior enclosure.

1.2 COMMISSIONING AUTHORITY'S RESPONSIBILITIES

- A. In addition to the responsibilities listed in Division 01 Section "General Commissioning Requirements" the commissioning agent will provide the following as they relate to the building exterior enclosure.
1. Coordinate the commissioning work and, with the GC and PM, ensure that commissioning activities are being scheduled into the master schedule
 2. Plan and conduct a commissioning kick-off and scoping meeting
 3. Review normal contractor submittals applicable to systems being commissioned concurrent with the A/E reviews for compliance with commissioning, O&M needs, and coordination issues.
 4. Schedule and conduct a Building Envelope Coordination Meeting with all the envelope contractors and GC to review all critical elements and transitions in the building envelope and assess constructability, material compatibility, sequencing and potential scope gaps.
 5. Provide project-specific construction checklists and commissioning process test procedures based on the manufacturer's installation procedures, technical data sheets and submittals received by the exterior envelope sub-contractors.
 6. Verify the execution of commissioning process activities. Verification will include, but is not limited to review of product submittals; prepare construction checklists; review operating and maintenance data and test reports to verify compliance with the Contract Documents. Failure to meet the requirements of the Contract Documents will be reported by CxA in the "Issues Log."
 7. Document construction checklist completion by reviewing completed construction checklists and by selected site observation
 8. Witness and verify systems testing performed by the installing contractors. Coordinate re-testing as necessary until satisfactory performances achieved.
 9. Maintain a master deficiency and resolution log and a separate testing record. Provide the PM and A/E with written progress reports and test results with recommended actions.
 10. Compile test data, inspection reports, and certificates and include them in the closeout documents.
 11. Review and verify the preparation of the O&M manual
 12. Provide a Final Commissioning Report
- B. The commissioning services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.

1.3 CONTRACTOR'S RESPONSIBILITIES

- A. In addition to the responsibilities listed in Division 01 Section "General Commissioning Requirements" provide the following as they relate to the building exterior enclosure.

1. Participate in design- and construction-phase coordination meetings.
 2. Provide information to the CxA for developing construction-phase commissioning plan.
 3. Provide schedule of field quality control tests and inspections required by the Contract Documents to CxA for incorporation into the commissioning plan.
 4. Submit product data, submittals and manufacturer's installation procedures for the commissioned building envelope systems and components
 5. Submit field quality control testing and inspection reports on exterior enclosure construction to the CxA.
 6. Submit operation and maintenance data for systems, subsystems, and components to the CxA.
 7. Participate in testing-procedures meetings.
 8. Participate in testing of installed systems, subsystems, and construction.
 9. Provide test data, inspection reports, and certificates to CxA.
 10. Participate in maintenance orientation and inspection.
 11. Participate in operation and maintenance training sessions.
 12. Participate in final review at acceptance meeting.
 13. Provide input for final commissioning documentation.
- B. Cooperate with the commissioning authority personnel, including building exterior enclosure commissioning consultant, provide access to the Work, and provide adequate schedule for the commissioning tasks related to the Work.
- C. Furnish copies of all shop drawings, manufacturer's product data, installation instructions, maintenance information, schedules, warranties, and other information requested for the building exterior enclosure systems and components.
- D. Provide qualified personnel for assistance to complete the commissioning tests, including required air and water leakage testing for elements of the building exterior enclosure systems.
- E. Submit a copy of the Contractor's project specific quality assurance program to be implemented for construction for review by Architect, Government, and CxA prior to start of construction.
- F. Participate and ensure all subcontractors utilized for work on this contract participate in a Building Envelope Coordination Meeting prior to start of envelope work and mock-up. This meeting will be to discuss construction sequencing and the coordination of trades, material compatibility and constructability. The General Contractor's project and site specific Quality Assurance Program related to the building envelope construction will also be reviewed.
- G. Construct field mockups to facilitate field quality control testing and inspections as specified in individual Sections of the specifications in Divisions 03 through 08.
1. Check for constructability of the building exterior enclosure, including but not limited to wall-to-window interfaces, roof-to-wall intersections, and provide personnel and

- representatives from each trade associated with installing the system.
 - 2. Ensure that personnel from each trade that will be completing the work in the field are utilized to construct each required mockup.
 - 3. Provide a written protocol and timeline for repair of deficiencies noted during the performance testing, or a written report from the third party agency performing the tests indicating what repairs were required for a successful test.
 - a. Repaired elements shall not be covered up without review by the CxA. Photographic documentation may substitute for CxA field visit when applicable.
- H. Quality Control Pre-Construction Conference: Schedule and conduct a quality control pre-construction conference to review the detailed quality control and construction requirements for all materials and/or systems as appropriate, not less than 15 working days prior to commencement of the applicable portion of the work related to the building exterior enclosure, and prior to constructing mockups.
- 1. Attendees at this conference include all contractors that will be involved in the construction of the building exterior enclosure, including but not limited to, Contractor's superintendent, material suppliers and representatives, and testing agency.
 - 2. This conference will be to discuss construction sequencing and coordination of various trades, and to review the Contractor's quality assurance program for the building exterior enclosure.
- I. Conduct weekly or bi-weekly building exterior enclosure quality assurance meetings with the appropriate contractors in attendance to review and discuss issues and concerns related to the building exterior enclosure noted by the Architect, CxA or Government during the previous week.
- 1. Maintain a nonconformance log indicating what action will be taken to correct the deficiencies and date corrections were completed.
- J. Field Testing: Provide a representative to be present from each trade or contractor associated with installing the system during the random field testing of the building exterior enclosure for air and water leakage, as indicated in the individual Sections of Divisions 03 through 08.
- 1. Provide a written protocol and timeline for repair of deficiencies noted during the performance testing, or a written report from the third party agency performing the tests indicating what repairs were required for a successful test.
 - 2. Provide a repair and remediation protocol for any system failures identified by the CxA, including a timeline for repair of all affected elements.
 - a. Repaired elements shall not be covered up without review by the CxA. Photographic documentation may substitute for CxA field visit when applicable.

- J. Provide copies of all test and inspection reports for inclusion in the Systems Manual to be submitted as part of the closeout documentation.
- K. Provide Closeout Documents for inclusion in the Systems Manual for each major building exterior enclosure system, including the following:
 - 1. Below-grade waterproofing.
 - 2. Exterior walls, metal wall panels, aluminum glazing systems, etc.
 - 3. Metal roofing, sheet metal flashing and trim.
 - 4. Sealants, control joints, and expansion joints.
 - 5. Other special building exterior enclosure systems
- L. Participate in maintenance orientation and inspection, and in one maintenance and training session with the building operations and maintenance staff and other participants identified by the Owner and Architect-of-record, with the assistance of the CxA
- M. Provide labor and facilities to provide access to the work to be tested.

1.4 COMMISSIONING DOCUMENTATION

- A. Commissioning Plan: Coordinate with and provide information to Commissioning Authority to permit updating of Commissioning Plan information with approval of final selections for materials, assemblies, and systems for the building exterior enclosure. Provide the following:
 - 1. Submittals, information for systems manuals, and other required documents and reports.
 - 2. Identification of installed exterior enclosure components, assemblies, systems, and equipment, including design changes that occurred during the construction phase.
 - 3. Certificate of completion, certifying that exterior enclosure assemblies are complete and ready for testing.
 - 4. Test and inspection reports and certificates.
 - 5. Corrective action documents.
- B. Documents Log: Provide as part of the project record closeout documentation a dedicated CxA Log that includes the following related to the building enclosure commissioning:
 - 1. As-built drawings, including a copy of all details and drawings that were installed as part of any addendum or change order directives. All deviations from the contract documents shall be clearly marked or noted.
 - 2. Specifications for the project, including all accepted product substitutions and any additional specifications as part of any addenda or change order directives. Mark accepted product substitutions and deviations clearly.
 - 3. A copy of all accepted change orders.
 - 4. A copy of all final shop drawings for each product requiring shop drawings, with the A/E review comments, showing final as-built conditions.

5. A copy of all warranties, organized by product, and any and all product manufacturer letters indicating the product as appropriate to use for the application intended on the project as well as any installation guidance.
6. A master product list summarizing all products used on the project for construction of the building exterior enclosure, organized by tabs in a binder, including the following information:
 - a. Product name.
 - b. Product manufacturer.
 - c. Catalog or other applicable number for ordering.
 - d. Manufacturer's contact information.
 - e. Product color.
 - f. Supplier contact information.
 - g. Product installation instructions.
 - h. Maintenance guide.
 - i. Manufacturer's checklist for periodic review of the product and procedures for repairs.

1.5 COMMISSIONING SUBMITTALS

- A. The following commissioning submittals are in addition to those specified in Division 01 Section "General Commissioning Requirements."
 1. Submit commissioning submittals concurrently to commissioning authority. Submittal will be returned to Architect before being returned to Contractor.
 2. Coordination Drawings: Provide cross references on all shop drawings indicating that drawings have been checked and cross-referenced by the Contractor to ensure adjacent elements, dimensions, and construction tolerances indicated allow all work at interfaces and intersections to be constructed.
 3. Qualification Data: For fabricators, installers, and testing agencies, submit to the CxA for review all qualifications required in Divisions 2 through 9 for review.
 4. Mock-up Test Reports: all preconstruction air and water leakage performance test results, including all failed tests, recording the noted deficiencies and the required repair, and provide a copy of all remediation processes and QC/QA processes that will be put in place to address the deficiency on future work product
 5. Field Quality Control Reports: Test reports for air and water penetration and other specified building exterior enclosure tests completed.
 6. Special inspection reports indicated in individual Sections.

1.6 QUALITY ASSURANCE

- A. Quality Control Program: Furnish a detailed quality control program to demonstrate quality control procedures that will be followed during the installation of components of the building exterior enclosure, including, but not limited to, visual inspection, and where appropriate, field testing.
- B. Preconstruction Commissioning Conference: Schedule a preconstruction commissioning conference for the building exterior enclosure before starting construction, at a time

convenient to Government, commissioning authority, and Architect, but no later than 15 days after execution of the Agreement. Hold the conference at Project site or another convenient location. Conduct the meeting to review commissioning responsibilities and personnel assignments. This Conference may be combined with the Quality Control Pre-construction Conference.

1. Attendees: Authorized representatives of Government, commissioning authority, Architect and consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Discuss items of significance that could affect progress, including the following:
 - a. Commissioning plan.
 - b. Construction schedule.
 - c. Phasing.
 - d. Critical work sequencing and long-lead items.
 - e. Designation of key personnel and their duties.
 - f. Mockup construction and testing.
 - g. Procedures for testing and inspecting.
 - h. Submittal procedures.
 - i. Preparation of Record Documents.
3. Minutes: Record and distribute meeting minutes.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 TESTING VERIFICATION

- A. Contractor shall perform the following:
 1. Certify that building exterior enclosure systems, subsystems, and construction have been completed according to the Contract Documents.
 2. Certify that field quality control procedures have been completed, field quality control reports have been submitted, discrepancies have been corrected, and corrective work approved.
- B. Commissioning authority will witness and document field quality-control tests and inspections.
 1. Verify that field quality-control testing of building exterior enclosure has been completed and approved, that discrepancies have been corrected and corrective work re-inspected and retested.
 2. Promptly notify Architect and Contractor of irregularities and deficiencies in the work that are observed during performance of services.
 3. Annotate checklist or data sheet when a deficiency is observed.
- C. Commissioning authority is not authorized to perform any of the following:
 1. Release, revoke, alter, or expand requirements of the Contract Documents.

2. Approve or accept any portion of the work.
 3. Perform any duties of the Contractor.
- D. Deferred Testing:
1. If tests cannot be completed because of a deficiency outside the scope of the building exterior enclosure, the deficiency shall be documented and reported to the Government. Deficiencies shall be resolved and corrected by Contractor and tests rescheduled.
- E. Testing Reports:
1. Reports shall include measured data, data sheets, and a comprehensive summary describing the building exterior enclosure systems at the time of testing.
 2. Prepare a preliminary test report. Deficiencies will be evaluated by Architect to determine corrective action. Deficiencies shall be corrected and test repeated.

3.2 SYSTEMS TO BE COMMISSIONED

- A. The systems requiring field testing and commissioning are specified in Divisions 03 through 08. The systems and elements to be commissioned include the following:
1. Exterior Opaque Wall Systems:
 - a. Metal Wall Panels.
 - b. Steel Doors
 - c. Fixed Louvers.
 - d. Brick Veneer systems
 2. Exterior Glazed Wall Systems:
 - a. Aluminum Storefront Systems.
 3. Roof Construction:
 - a. Roofing underlayment
 - b. Metal Roofing
 - c. Metal flashings, edge trim, etc
 4. Waterproofing Systems.
 5. Thermal Insulation.
 6. Air and Moisture Barrier Systems.
 7. Exterior Joint Sealants.

3.3 PRE-FUNCTIONAL CHECKLISTS

- A. Pre-functional checklists consist of procedures and checks to ensure systems and assemblies are ready for testing and/or inspection, and are provided by the CxA to the Contractor.
1. The Contractor and appropriate subs provide their standard installation checklists to the CxA who will use them to develop the pre-functional checklists the contractors will complete prior to testing or inspection.
 2. Subs shall complete pre-functional checklists as sections of work are completed and submit completed checklists to the CxA through the Contractor. Completion of the pre-functional checklist is notification that the specific system is complete and ready for testing or inspection.
 3. Each assembly being commissioned receives full construction checkout by the Contractor following the approved plan and forms. No sampling strategies are used. Only individuals that have direct knowledge and witnessed that a line item task in

the pre-functional checklist was actually performed shall initial or check that item off. It is not acceptable for non-witnessing supervisors to fill out the forms.

4. The Contractor determines which trade is responsible for executing and documenting each of the line item tasks on the checklists and notes that trade on the checklist form.
5. The Contractor and subs, under their own direction, execute and document the pre-functional checklists were completed according to the approved drawings prior to acceptance testing or inspection.
6. The Contractor and Subs shall complete pre-concealment procedures before concealing any assembly. The Contractor shall notify the CxA at least five days in advance of any assembly concealment, providing the CxA a copy of the pre-concealment sections of the pre-functional checklists
7. The CxA performs periodic construction observations of selected systems and procedures on the checklists will be spot-checked by the CxA prior to testing.
8. The test procedures for the project have been coordinated with the testing requirements specified in each specification Section.
9. Items of non-compliance in material, installation, or setup are corrected at the Contractor's expense and the system or building enclosure assembly retested.
10. The Contractor shall correct all areas that are deficient or incomplete in the checklists in a timely manner.

B. Sample Checklists: Construction and Industry checklists shall be developed by the Contractor for the building exterior enclosure, including the following:

1. Vapor barriers.
2. Waterproofing Membrane.
3. Metal Panels.
4. Membrane air barriers.
5. Brick Veneer systems
6. Aluminum storefront systems.
7. Metal Roof system
8. Exterior joint sealants.

C. General Checklist Commentary: The manufacturers' or contractors' checklists shall include a systematic series of events appropriate to the specific systems, including but not limited to the following:

1. Verify product specified is appropriate to the site conditions.
2. Verify installer is authorized by manufacturer to apply product.
3. Verify that weather conditions, substrates, and construction contiguous to assemblies are acceptable for application of product.
4. Verify that construction is within specified tolerances where systems will be installed.
5. Verify that stored materials are protected against moisture.
6. Verify that products are undamaged prior to installation.
7. Verify that products are correct size, shape, thickness, and color.
8. Verify that components are preassembled, including factory

- installed sealant, as indicated on the approved shop drawings.
9. Verify proper fasteners and adhesives are used.
 10. Verify that isolation is provided between dissimilar metals.
 11. Verify that proper safety measures are employed by installers.
 12. Verify that materials are in accordance with approved submittals, including shop drawings, product data, and samples.
 13. Verify that dimensions are correct.
 14. Verify product installation is in accordance with manufacturer's written instructions.
 15. Verify that erection tolerances are maintained regarding horizontal and vertical alignment and plumbness.
 16. Verify anchorage to structure is secure for transfer of wind load.
 17. Verify provisions for thermal expansion.
 18. Verify provisions for deflection of structural members.
 19. Verify that flashings, end dams, sub sills, and sealants are in place, including weep holes.
 20. Verify that final cleaning is performed as required, and repairs are satisfactory. Verify that unsuitable repairs are replaced with new materials.
 21. Verify that finished work is protected.
 22. Verify that operating components of systems comply with accessibility requirements.
 23. Verify that systems are ready for air leakage and water penetration test procedures.
 24. Verify that warranties can be obtained.
 25. Verify operation and maintenance data has been submitted.

3.4 TESTING PROCEDURES

- A. The testing procedures are the step-by-step process which must be executed by the Contractor to fulfill the test requirements that are specified in the Contract Documents by the Architect in Divisions 03 - 08.
- B. Objectives and Scope: Performance testing is to demonstrate that each system is operating or functioning according to documented Government objectives and Contract Documents.
- C. Performance Test Procedures: Testing shall verify the performance of the assembly in its installed state under conditions specified in the testing requirements. Areas of deficient performance shall be identified and corrected.
- D. Mockups of Exterior Wall Assemblies: Testing shall be done on mockup assemblies of the exterior building enclosure as described in the project specifications. These assemblies will be used to establish the installation practices and workmanship that will be maintained by the installers during the assembly of the exterior wall systems.
 1. Prerequisites: Pre-functional checklist items shall be

complete and signed off by Contractor and sealants shall be cured prior to testing.

2. AAMA certified independent testing agency shall conduct testing, document the test results, and the CxA will witness the testing.
3. Cost for additional testing if work requires retesting will be borne by Contractor.
4. Concerns identified during the testing of the mockups must be resolved before proceeding with installation of the permanent exterior wall and roof assemblies, including metal cladding, glazed curtain walls and storefronts, flashings, and joint sealants.

E. Random Testing of Exterior Walls: Additional testing will be performed on a minimum of three window assemblies and adjacent wall assemblies. Testing will be done in accordance with modified ASTM E 1105.

3.5 FIELD TEST PROCEDURES

A. General:

1. Contractor and subcontractors for each building enclosure assembly shall review the test procedures for feasibility, safety, and warranty protection.
2. Contractor and subcontractors shall provide assistance to the commissioning agent in preparing specific functional performance test procedures (answering questions about assemblies and sequences, etc.) as specified in individual specification Sections.
3. Contractor shall arrange a startup orientation meeting before construction begins to reiterate to the subcontractors exactly what will be required of them, and to allow them to voice any concerns prior to the commencement of the work.
4. Contractor shall review his quality control procedures, quality assurance inspection and testing procedures, review drawings and specifications, review shop drawings and submittals, review construction schedule and sequencing, material selection and compatibility, and other installation concerns.
5. Contractor shall construct the field mockup(s) of the key details of the system in accordance with the construction documents. Mockups shall be constructed by the people representative of the skill level that will be working on the project.
6. Contractor shall not install any components of the building enclosure, including mockup installation, until product submittals have been approved.
7. Contractor shall certify materials comply with specified laboratory testing prior to installation of any building enclosure materials. Field testing assumes materials comply with laboratory tests.
8. Contractor shall complete pre-functional checklists and certify that systems are ready for functional testing prior to any testing.
9. Contractor shall address punch list items before functional testing.

10. Field testing shall be performed by an approved independent testing agency qualified to conduct the specified tests. The commissioning agent will not perform any tests, but will witness the tests.
 11. In the event that a functional test fails, the Contractor shall determine the cause of the failure, and the appropriate and affected trades shall correct all deficiencies as soon as possible.
 12. Contractor shall provide retesting for all failed tests. If more than two functional tests of the same system are required, the Contractor shall reimburse the Government and their subconsultants for all associated costs.
 13. The commissioning agent may recommend solutions to problems found, however the burden of responsibility to solve, correct, and retest problems is the Contractor's responsibility.
 14. Test performance requirements shall be as described in each individual Section where the testing requirements are specified.
 15. The testing agency will record the results of the functional test on the test procedure form. Deficiencies or non-conformance issues shall be noted and reported to the Contractor.
 16. Corrections of minor deficiencies identified may be made during the test at the discretion of the commissioning agent.
 17. As tests progress and a deficiency is identified, the testing agency and commissioning agent will discuss the issue with the Contractor, document the deficiency and the Contractor's response and intentions for correction.
 18. The testing agency notes each satisfactory demonstrated function on the test form. The Contractor, Architect, and Government's representative give final approval on each test using the same form, providing a signed copy to the commissioning agent.
- B. Vapor Barriers Under Slabs On Grade:
1. Complete construction checklist for each separate concrete pour based on manufacturer's product data.
 2. Submit a minimum of five construction photographs showing vapor barrier layers with 6-inch of overlap.
 3. Submit a minimum of five construction photographs showing penetrations through vapor barrier demonstrating proper taping and sealed edges.
- C. Waterproofing:
1. Complete construction checklist.
 2. Perform bond to substrate test according to ASTM D 7234.
- D. Metal Wall Panels:
1. Construct mockup panel as detailed.
 2. Complete construction checklists of the various materials and components in the mockup panel.
- E. Air and Moisture Barriers:
1. Complete construction checklist.
 2. Perform membrane thickness verification inspections (dry or

wet film thickness) at a minimum of five locations on the mockup panel to comply with manufacturer's requirements. Dry film thickness measurements may be done by removing samples and measuring with a micrometer.

3. Verify continuity of membrane at interconnections between materials, assemblies of materials, and penetrations.
4. Verify structural integrity of the substrate.

F. Brick Veneer System:

1. Construct mockup panel as detailed.
2. Complete construction checklists of the various materials and components in the mockup panel.

G. Glazed Aluminum Storefront System:

1. Install typical full size curtain wall assembly in the field mockup panel.
2. Complete construction checklist.
3. Test storefront assembly for water penetration according to ASTM E 1105 (at 10 percent and 70 percent completion).

H. Metal Roof System:

1. Complete construction checklist.
2. Complete roof installation inspections.

I. Exterior Joint Sealants:

1. Complete construction checklist of the joint sealant installation on the mockup panel.
2. Allow joint sealants to fully cure prior to testing.
3. Test joint sealant adhesion according to ASTM C 1521. (Joint sealants to be tested for each different substrate).
4. Repair tested sealants prior to further testing.

3.6 REFERENCE STANDARDS

- A. ASTM C 1521 Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints.
- B. ASTM D 7234 Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers.
- C. ASTM E 1105 Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform or Cyclic Static Air Pressure Difference.

Performance Testing Matrix
Building Envelope Commissioning
2022

August 2,

Property	Standard Designation	Materials/Systems	Field Mockup	In-Situ	Frequency/Time Frame
Adhesion & Durability	ASTM D7234	Waterproofing Membrane	N/A	1	Prior to concealment
Water Penetration	ASTM E1105	Aluminum Storefront Systems	N/A	2	1 st installed specimen / 7 th installed specimen
Water Penetration	AAMA 501.2	Aluminum Storefront Systems	N/A	2	Test 2 specimens at the same time the ASTM 1105 testing is conducted
Sealant Adhesion	ASTM C1521	Exterior sealants	1	3	TBD

END OF SECTION 019115



STATE OF MISSISSIPPI
GOVERNOR PHIL BRYANT

DEPARTMENT OF FINANCE AND ADMINISTRATION

Laura D. Jackson
EXECUTIVE DIRECTOR

M E M O R A N D U M

TO: Contractors, through the AGC, ABC, and MBOC

FROM: Calvin R. Sibley, Director
Bureau of Building, Grounds and Real Property Management

DATE: February 27, 2018

SUBJECT: Electronic Construction Bidding per Law effective 1/1/2018

Beginning January of 2018, the Mississippi Department of Finance and Administration / Bureau of Building Grounds and Real Property Management started receiving construction bids electronically as required by House Bill 1106, Laws of 2017. Electronic bids are at the discretion of the Bidder/Supplier. Paper bids WILL STILL BE received as stipulated in the Advertisement / Request for Bids. The instrument being used to carry out this is a program called MAGIC which is available to all State of Mississippi departments, agencies, and Bidders/Suppliers. (MAGIC is the State's Accounting System.)

TO BID USING MAGIC: Potential Bidder/Supplier must first register. When the Bidder/Supplier registers themselves, they will automatically receive their Magic sign-in information. (The Bureau of Building, et al, can assist with this, and, if so, will notify the Bidder/Supplier by email of doing so, so they can contact Magic to get their sign-in information for bidding electronically) Construction Bidders/Suppliers who have received awards in recent years through the Bureau of Building, et al, should already have their company information properly entered. Those companies should still verify that their system "Product Code" is set to "90922" [for construction] in order to receive "system generated Bid Notices" for construction projects. (Bid Opportunities will continue to be in the newspaper, on the Magic Portal, and on the Bureau of Building, et al, web.) When registering, a company should enter their company information EXACTLY as shown per the Mississippi Secretary of State's listing and per their W9. Contact Magic at: <http://uperform.magic.ms.gov/gm/folder-1.11.7512?originalContext=1.11.8507> (MS SoS, MBOC, and W9 should all agree.)

TO ADD THE PRODUCT CODE 90922 once in your MAGIC Address Table click the steps below:

1. Click on Suppliers Self Service Tab.
2. Click Company Data.
3. Click the Process Button.
4. Click Add Categories in the Product Categories section
5. Add the product Categories from here.

TO VIEW ADVERTISED PROJECT INFORMATION on line go to DFA Web site and select “Are You Interested in Doing Business with Mississippi” at the top of the page. This takes one to the Procurement Portal. Click on:

1. I sell to Mississippi
2. (RFx) Procurement Opportunities and Public Notifications
3. Advanced Search Options
4. Major Procurement Category: Select Construction
5. Dept/Agency: Select MS DEPT FINANCE AND ADMINISTRATION
6. SEARCH

Another option from the DFA web site is to:

1. Select DFA Offices
2. Select Bureau of Building Grounds and Real Property Management.
3. Just Below “About the Bureau of Building” select BOB Bid Solicitations.
4. Locate the GS# at left of the list and the RFx number at the right.

On both list the RFx number for each project is listed which is required in MAGIC when preparing bids.

For additional information regarding registration in MAGIC, contact MMRS at (601) 359-1343 or by email at mash@dfa.ms.gov .

CRS/pgw

Note: Parking is limited, bidders will be required to pass through security, the official time clock is behind reception's desk of the Woolfolk Bldg on the 14th floor, and no bids will be accepted after 2:00:00 pm.

GS# 506-038

Bid Date: 10/1/20

PRE-BID AGENDA INSTRUCTIONS TO BIDDERS

SECTION 00100

PART 1 - GENERAL

- 1.01 QUESTIONS:** Questions should be directed to the Professional. Should a Bidder find discrepancies in or omissions from, the Drawings or Project Manual, or be in doubt as to their meaning, the Bidder should immediately notify the Professional. The Professional will send written instruction(s) or interpretation(s) to all known holders of the documents. Neither the Owner, nor the Professional, will be responsible for any oral instruction or interpretation.
- 1.03 NON-RESIDENT BIDDER:** When a non-resident Bidder (a Contractor whose principal place of business is outside the State of Mississippi) submits a bid for a Mississippi public works project, one of the following is required and shall be submitted with the Proposal Form:
- A. Copy of Law: If the non-resident Bidder's state has a resident Bidder preference law, a copy of that law shall be submitted with the Proposal Form.
 - B. Statement: If the state has no such law then a statement indicating *the State of (Name of State) has non-resident Contractor preference law* shall be submitted with the Proposal Form.
- 1.08 OBLIGATION OF BIDDER:** At the bid opening, each Bidder will be presumed to have inspected the site, read and become thoroughly familiar with the Drawings and the Project Manual, including all addenda.

PART 2- PROPOSAL FORM

- 2.02 PROPOSAL FORMS:** The Bidder shall make all proposals on forms provided and shall fill all applicable blank spaces without interlineations or alteration and must not contain recapitulation of the work to be done. No oral or telegraphic proposals will be considered.
- *Make sure your name at Secretary of State and Contractor's Board match.*
- 2.06 ADDENDA:** Any addenda to the Drawings or Project Manual issued before or during the time of bidding shall be included in the proposal and become a part of the Contract. The Proposal Form will have ample space to indicate the receipt of addenda. When completing the Proposal Form, the Bidder shall list the Addendum number and the date received in spaces provided.
- *Note that all addenda's will be issued NO LATER THAN (48) forty-eight hrs before bid time.*
 - *Ask Professional if any addenda's are planned.*

PART 4 - BID OPENING AND AWARD OF CONTRACT

- 4.03 PROTEST:** Any protest must be delivered in writing to the Owner within twenty-four (24) hours after the bid opening.
- *Do not send any protest or errors to the project professional, both must be sent to Owner.*
- 4.04 ERRORS:** Any claim of error and request for release from bid must be delivered in writing to the Owner within twenty-four (24) hours after the bid opening. The Bidder shall provide sufficient documentation with the written request clearly proving an error was made.

Project Name: Region 4 Administrative Office Facility - Mississippi Forestry Commission

Pre-Bid Sign - in - Sheet

[illegible]