



09 August 2024

Project Name: Pearl River Valley Water Supply District Main Office
Project Number: 23-072

ADDENDUM NO. 01

NOTICE TO ALL DOCUMENT HOLDERS:

The following additions, deletions, changes and clarifications to the drawings and specifications are to be included as part of the Contract Documents.

The following clarifications address various bidder's questions received to date.

GENERAL

ITEM NO. 01

PRE-BID MEETING

No pre-bid meeting is planned at this time.

ITEM NO. 02

RFI CLARIFICATIONS

Q1: Is there a budget for this project?

- *The design professional's current estimate for the construction cost is 8 million.*

Q2: Please confirm this is not a davis-bacon or certified payroll project.

- *Davis-Bacon or Certified Payroll is not required for this project.*

Q3: The Alternate # 5 says to provide all components for the executive office patio. I have not seen anything shown on the plans for this. Please direct me to the location that shows the components.

- *See floor plans & elevations around the executive patio for notes of different components. Refer to consultant drawings in this given area as well.*

SPECIFICATIONS

ITEM NO. 03

INDEX TO SPECIFICATIONS

DELETE references to the following Sections:

- 01.4529 Testing Laboratory Services
- 06.1800 Glued Laminated Construction
- 06.4100 Architectural Wood Casework
- 10.2600 Wall and Door Protection

Clarification: These spec sections are to be omitted from the project.

ITEM NO. 04

00.1113 - ADVERTISEMENT FOR BIDDERS

Part 4, Paragraph 'A'

REVISE paragraph 'A' to read as follows: *Your firm is invited to submit an offer under seal to the Owner for construction of a facility to be located at Bobby Cleveland*



Lakeshore Park 1112 N Shore Parkway, Brandon, MS 39047 before 2pm local standard time on the **29nd day of August, 2024.**

- ITEM NO. 05 **00.2113 - INSTRUCTIONS TO BIDDERS**
Part 2, Paragraph 1, Item A
REVISE item 'A' to read as follows: *Bids signed and under seal, executed and dated will be received by the Owner at 143 Timberlake Drive, Brandon, MS 39042 before 2 p.m. local standard time on **August 29, 2024.** This location is the community center at the Timberlake Campground. It is immediately adjacent to the Project Site.*
- ITEM NO. 06 **00.4100 - BID FORM**
Part 7, Paragraph 'B'
REVISE paragraph 'B' to read as follows: *Complete the Work in **487** calendar days from Notice to Proceed.*
- ITEM NO. 07 **00.8000 - SUPPLEMENTARY CONDITIONS**
REPLACE spec section in its entirety with the attached **00.8000 - Supplementary Conditions** spec section.
Clarification: Revised the Article 11 - Insurance and Bonds section.
- ITEM NO. 08 **01.2100 - ALLOWANCES**
Part 1, Paragraph 5, Item 'C'
REVISE Item 'C' to read as follows: *Contingency Allowance: Include the stipulated sum/price of **\$50,000.00** for use upon Architect's and/or Owner's instructions.*
- ITEM NO. 09 **07.2129 - SPRAYED INSULATION**
REPLACE spec section in its entirety with the attached **07.2129 - Sprayed Insulation** spec section.
Clarification: Revised specification section with updated list of material choices and manufacturers. Added Line 3.3.A to the spec section.
- ITEM NO. 10 **07.4113 - METAL ROOF PANELS**
REPLACE spec section in its entirety with the attached **07.4113 - Metal Roof Panel** spec section.
Clarification: Revised specification section with updated list of manufacturers. Revised roofing panel type.
- ITEM NO. 11 **26.0520 - LOW-VOLTAGE CONDUCTORS AND CABLES**
Part 1, Paragraph 2B & 2C
REVISE paragraph 'B' to read as follows: *Homeruns shall be installed in conduit to the room. Metal Clad (MC) Cable may then be used in walls and above ceilings*
DELETE paragraph 2C from spec section 26.0520.
- ITEM NO. 12 **26.3215 - NATURAL GAS GENERATOR SETS**
ADD the attached spec section in its entirety.
Clarification: The Specification Section was included in the Index to Specifications but was omitted from the original project manual.



DRAWINGS

- ITEM NO. 13 **R100 - PROJECT INFO**
REPLACE sheet with attached revised sheet.
Clarification: Revised sheet index.
- ITEM NO. 14 **R200 - LIFE SAFETY COMPLIANCE**
REPLACE sheet with attached revised sheet.
Clarification: Revised floor plan to remove fire rating in CMU construction.
- ITEM NO. 15 **C2.0 - EXISTING CONDITIONS & DEMOLITION PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Revised sheet index.
- ITEM NO. 16 **C3.0 - SITE & UTILITY PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Revised sheet index.
- ITEM NO. 17 **A101 - FLOOR PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Revised floor plan to remove fire rating in CMU construction.
- ITEM NO. 18 **A103 - REFLECTED CEILING PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Revised reflected ceiling plan to remove fire rating in CMU construction.
- ITEM NO. 19 **A201 - EXTERIOR ELEVATIONS**
REPLACE sheet with attached revised sheet.
Clarification: Updated cavity filled insulation in Wall Assembly legend.
- ITEM NO. 20 **A202 - EXTERIOR ELEVATIONS**
REPLACE sheet with attached revised sheet.
Clarification: Updated cavity filled insulation in Wall Assembly legend.
- ITEM NO. 21 **A301 - WALL SECTIONS**
REPLACE sheet with attached revised sheet.
Clarification: Updated cavity filled insulation in Wall Assembly legend.
- ITEM NO. 22 **A302 - WALL SECTIONS**
REPLACE sheet with attached revised sheet.
Clarification: Updated cavity filled insulation in Wall Assembly legend.
- ITEM NO. 23 **A303 - WALL SECTIONS**
REPLACE sheet with attached revised sheet.
Clarification: Updated cavity filled insulation in Wall Assembly legend.



- ITEM NO. 24 **A304 - WALL SECTIONS**
REPLACE sheet with attached revised sheet.
Clarification: Updated cavity filled insulation in Wall Assembly legend.
- ITEM NO. 25 **A501 - DOOR OPENINGS & ENTRANCES**
REPLACE sheet with attached revised sheet.
Clarification: Updated door frame types and door remarks on door schedule.
Updated alternate diagrams.
- ITEM NO. 26 **A602 - FINISH PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Revised finish plan to remove fire rating in CMU construction.
- ITEM NO. 27 **S200 - FOUNDATION PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Increased slab thickness in vault area to 8" for the storage system.
- ITEM NO. 28 **S201 - ROOF FRAMING PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Added the two timber rafters.
- ITEM NO. 29 **S300 - DETAILS**
REPLACE sheet with attached revised sheet.
Clarification: Changed the vault slab thickness to 8" in Detail 3/S300
- ITEM NO. 30 **M601 - HVAC SCHEDULES**
REPLACE sheet with attached revised sheet.
Clarification: Updated HVAC schedules.
- ITEM NO. 31 **E200 - POWER PLAN**
REPLACE sheet with attached revised sheet.
Clarification: Added keyed notes.

Encl: **Specifications** (8.5x11): 00.7300, 07.2129, 07.4113, 26.3214
 Drawings (24x36): R100, R200, C2.0, C3.0, A101, A103, A201, A202, A301, A302, A303, A304, A501, A602,
 S200, S201, S300, M601, E200

Cc: All document holders
 File: 23-072/C/C2

SUPPLEMENTARY CONDITIONS**PART 1 GENERAL**

1. DESCRIPTION

- A. The following Supplementary Conditions modify the "General Conditions of the Contract for Construction," AIA Document A201, 2017. Where a portion of the General Conditions is modified or deleted by the Supplementary Conditions, the unaltered portions of the General Conditions shall remain in effect. In the event of a conflict between the General Conditions of the Contract for Construction and Section 00800, Section 00800 shall control even if the conflicting provision in the General Conditions of the Contract for Construction is not expressly revised or deleted by reference in Section 00800.
- B. The General Conditions may also be supplemented or amplified elsewhere in the Contract Documents by provisions located in, but not necessarily limited to, Division 1 of the Specifications.

SUPPLEMENTS**ARTICLE 1 - GENERAL PROVISIONS**

1. 1.1 BASIC DEFINITIONS

A. 1.1.1 THE CONTRACT DOCUMENTS:

- 1. Delete the last sentence in **Article 1.1.1** and insert the following:

- a. The Contract Documents shall include the Instructions to Bidders, the plans, the specifications, including Divisions 0 through 16, all Addenda and modifications to the plans and/or specifications, the Agreement between Owner and Contractor, the performance and payment bonds, the notice to proceed and any executed change orders. Information and documentation pertaining to soil investigation data, laboratory investigations, soil borings and related information included herein are not part of the Contract Documents. In the event of a conflict between the provisions of Division 0 and any other section of the Contract Documents, such other sections(s) shall govern.

B. 1.1.2 THE CONTRACT

- 1. Add the following to the end of **Article 1.1.2**:

- a. Large scale drawings shall govern over small scale drawings where there are differences or conflicts between such drawings. Where the word "similar" appears on the plans, it shall not be interpreted to mean "identical" and shall require the Contractor to coordinate the actual conditions and dimensions of the location where the Asimilar@ conditions are shown to occur.

C. MISCELLANEOUS DEFINITIONS

- 1. Add the following **Article 1.1.9**:

- a. The term "products" as used in these Supplementary Conditions includes materials, systems, and equipment.

2. CORRELATION AND INTENT OF THE CONTRACT DOCUMENTS

A. Add the following **Article 1.2.4**:

- 1. It is the intent of the Contract Documents that the Contractor shall properly execute and complete the Work described by the Contract Documents, and unless otherwise provided in the Contract, the Contractor shall provide all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services, whether temporary or permanent and whether or not incorporated in the Work, in full accordance with the Contract Documents and reasonably inferable from them as necessary to produce the intended results.

B. Add the following **Article 1.2.5**:

1. The Contract Documents shall be interpreted collectively, each part complementing the others and consistent with the intent of the Contract Documents. Unless an item shown or described in the Contract Documents is specifically identified to be furnished or installed by the Owner or others or is identified as **Not In Contract (N.I.C.)**, the Contractor's obligation relative to that item shall be interpreted to include furnishing, assembling, installing, finishing, and/or connecting the item at the Contractor's expense to produce a product or system that is complete, appropriately tested, and in operable condition ready for use or subsequent construction or operation by the Owner or separate contractors. The omission of words or phrases for brevity of the Contract Documents, the inadvertent omission of words or phrases, or obvious typographical or written errors shall not defeat such interpretation as long as it is reasonably inferable from the Contract Documents as a whole.
 2. Words or phrases used in the Contract Documents which have well-known technical or construction industry meanings are to be interpreted consistent with such recognized meanings unless otherwise indicated.
 3. Except as noted otherwise, references to standard specifications or publications of associations, bureaus, or organizations shall mean the latest edition of the referenced standard specification or publication as of the date of the Advertisement of Bids.
 4. In the case of inconsistency between Drawings and Specifications or within either document not clarified by addendum, the better quality or greater quantity of Work shall be provided in accordance with the Architect's interpretation.
 5. Generally, portions of the Contract Documents written in longhand take precedence over typed portions, and typed portions take precedence over printed portions.
 6. Any doubt as to the meaning of the Contract Documents or any obscurity as to the wording of them, shall be promptly submitted in writing to the Architect for written interpretation, explanation, or clarification.
3. DIGITAL DATA USE AND TRANSMISSION – DELETE THIS ARTICLE 1.7 ENTIRELY.
 4. BUILDING INFORMATION MODELS USE AND RELIANCE – DELETE THIS ARTICLE 1.8 ENTIRELY.

ARTICLE 2 - OWNER

1. EVIDENCE OF THE OWNER'S FINANCIAL ARRANGEMENTS
 - Add the following to the beginning of **Article 2.2.1**:
 1. "If the Project is a private project, not funded by public funds, then . . .".
2. DELETE **ARTICLE 2.2.2** ENTIRELY.
3. INFORMATION AND SERVICES REQUIRED OF THE OWNER
 - A. Delete **Article 2.3.1** in its entirety.
 - B. Add the following at the end of **Article 2.3.2**:
 1. The term "Architect", "Engineer" or "Design Professional" as used in the Contract Documents refers to WBA Architecture.
 - C. Delete **Article 2.3.4** in its entirety.
 - D. Delete **Article 2.3.6** in its entirety and insert the following:
 1. 2.2.5 The Contractor will be furnished free of charge digital copies of the plans and specifications, including all Addenda. Additional printed sets will be furnished at the cost of reproduction, postage and handling.
4. OWNER'S RIGHT TO STOP THE WORK
 - A. Delete **Article 2.4** in its entirety and insert the following:

1. If the Contractor fails to correct Work which is not in accordance with the requirements of the Contract Documents as required by Article 12.2 or fails to carry out Work in accordance with the Contract Documents or fails to perform any of its obligations under the Contract Documents, the Owner may issue a written order to the Contractor to stop the Work, or any portion thereof, until the cause for such order has been eliminated. However, the right of the Owner to stop the Work shall not give rise to a duty on the part of the Owner to exercise this right for the benefit of the Contractor or any other person or entity, except to the extent required by Article 6.1.3.
2. The rights and remedies under this Article 2.4 are in addition to and do not in any respect limit any other rights of the Owner, including its termination rights under Article 14.

ARTICLE 3 - CONTRACTOR

1. GENERAL

A. Add the following at the end of **Article 3.1.1**:

1. The relationship of Contractor to Owner shall be that of independent contractor, and nothing in the Contract Documents is intended to nor should it be construed as creating any other relationship, expressed or implied, between Owner and Contractor.

2. REVIEW OF CONTRACT DOCUMENTS AND FIELD CONDITIONS BY CONTRACTOR

A. Add the following **Article 3.2.5**:

1. The Owner is entitled to deduct from the Contractor's pay applications for amounts paid to the Architect for evaluating and responding to the Contractor's requests for information that are not prepared in accordance with the Contract Documents or where the requested information is available to the Contractor from a careful study and comparison of the Contract Documents, field conditions, other Owner-provided information, Contractor-prepared coordination drawings, or prior Project correspondence or documentation.

3. LABOR AND MATERIALS

A. Add the following to the end of **Article 3.4.2**:

1. Some Sections of the Specifications may not allow substitution of materials, products or equipment. Where substitution is allowed the request for substitution will only be considered if made in strict accordance with the requirements of Article 3.4.4 below and Section 01630.

B. Add the following **Article 3.4.4**:

1. After the Contract has been executed, the Owner and the Architect may consider a request for the substitution of products in place of those specified only under the conditions set forth in Section 01630 of the specifications.
2. By making requests for substitutions, the Contractor:
 - a. Represents that the Contractor has personally investigated the proposed substitute product and determined that it is equal or superior in all respect to that specified;
 - b. Represents that the Contractor will provide the same warranty for the substitution that the Contractor would for that specified;
 - c. Certifies that the cost data presented is complete and includes all related costs under this Contract except the Architect's redesign costs, and waives all claims for additional costs related to the substitution which subsequently becomes apparent; and
 - d. Shall coordinate the installation of the accepted substitute, making such changes as may be required for the Work to be complete in all respects at its costs.
3. All substitutions shall be submitted within 30 days of the Notice to Proceed, as per Section 01630.

C. Add the following **Article 3.4.5**:

1. Contractor represents that it has independently investigated, considered and understands the labor conditions in the area surrounding the Project and acknowledges that such conditions may impact the Contractor's cost and/or time of performance of the Contract. Therefore, Contractor further represents that the Contract Price is based upon Contractor's independent investigations into such labor conditions and that the Contract time is reasonable and the date of Substantial Completion is obtainable. As a result, Contractor assumes the risk of increased costs, if any, incurred by it arising out of or related to such labor conditions and acknowledges that Contractor and its surety will reimburse Owner for any additional costs Owner incurs arising out of or related to such labor conditions.
4. PERMITS, FEES, NOTICES AND COMPLIANCE WITH LAWS
 - A. Delete **Article 3.7.1** in its entirety and insert the following:
 1. The Contractor shall secure and pay for the building permit and all other permits, fees, licenses, inspections and all other approvals and charges necessary for proper execution and completion of the Work.
 - B. Delete the words "knowing it to be" from **Article 3.7.3**.
 - C. Add the following to the end of **Article 3.8.2.3**:
 1. . . . except when installation is specified to be included as part of the allowance in the General Requirements (Division 1 of the Specifications).
5. SUPERINTENDENT
 - A. Add the following to the end of **Article 3.9.1**:
 1. The Contractor shall also employ a competent project manager who shall be primarily responsible for the Contractor's home office activities in connection with the Contract.
 2. The Owner shall have the right, which shall be exercised in a reasonable fashion, to approve the project manager and/or superintendent employed by the Contractor, either before or during the progress of construction.
 3. The superintendent and project manager for the project shall be designated by the Contractor at the pre-construction conference. After Owner's approval of such project manager and superintendent, they shall not be replaced by the Contractor without the Owner's prior written consent, which consent is required unless the Contractor submits proof satisfactory to the Owner that the superintendent and/or the project manager should be terminated by the Contractor for cause.
6. CONTRACTOR'S CONSTRUCTION AND SUBMITTAL SCHEDULES
 - A. Add "but, in any event, no less than submission of a revised schedule with each monthly application for payment pursuant to Section 9.3" between "intervals" and "as" in the fourth sentence.
 - B. Delete **Article 3.10.3** in its entirety and insert the following:
 1. Time being of the essence, the Contractor shall perform the Work in accordance with the most recent schedule submitted to and approved by the Owner and Architect.
7. SHOP DRAWINGS, PRODUCT DATA AND SAMPLES
 - A. Add the following to the end of **Article 3.12.6**:
 1. In reviewing Shop Drawings, Product Data, Samples and similar submittals the Architect shall be entitled to rely upon the Contractor's representation that such information is correct and accurate.
 - B. Add the following to the end of **Article 3.12.8**:
 1. Unless such written notice has been given, the Architect's approval of a Shop Drawing, Product Data, Sample or similar submittal shall not constitute approval of any changes not requested on the prior submittal.

- C. Add the following to the end of **Article 3.12.9**:
 - 1. The Architect’s review of the Contractor’s submittals will be limited to examination of an initial submittal and one (1) resubmittal. The Architect’s review of additional submittals will be made only with the consent of the Owner after notification by the Architect. The Owner shall be entitled to deduct from the Contract Sum amounts paid to the Architect for evaluation of such additional resubmittals.
 - D. Delete the second sentence entirely of **Article 3.12.10.1** and replace with:
 - 1. “The performance and design criteria specified by the Architect in the Contract Documents shall be prepared in accordance with the applicable standard of care.”
8. **3.18 INDEMNIFICATION**
- A. Add the word **defend** before the word **indemnify** in the first line, add the words **or nonperformance** after the word **performance** in the third line and delete the phrase which begins **provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the Work itself)** to the end of the sentence.

ARTICLE 4 - ADMINISTRATION OF THE CONTRACT

- 1. DELETE THE LAST SENTENCE ENTIRELY FROM **ARTICLE 4.2.4**.
- 2. DELETE **ARTICLE 4.2.10** IN ITS ENTIRETY.

ARTICLE 5 - SUBCONTRACTORS

- 1. **5.2 AWARD OF SUBCONTRACTS AND OTHER CONTRACTS FOR PORTIONS OF THE WORK**
 - A. Delete the phrase **Unless otherwise stated in the Contract Documents, the Contractor, as soon as practicable after award of the Contract** from the first sentence of **Article 5.2.1** and insert the following in lieu thereof:
 - 1. The Contractor, with its first Application for Payment and as a condition to the Owner’s obligation to make payments to Contractor under Article 9 of the General Conditions as supplemented herein,
 - B. Add the following **Article 5.2.5**:
 - 1. The Contractor’s unauthorized substitution of any subcontractor, supplier, person or entity previously identified by Contractor in accordance with **Article 5.2.1** shall entitle the Owner to reject the work, materials or product furnished and require removal and replacement at no additional cost to the Owner.

ARTICLE 6 - CONSTRUCTION BY OWNER OR BY SEPARATE CONTRACTORS

- 1. **6.1 OWNER'S RIGHT TO PERFORM CONSTRUCTION AND TO AWARD SEPARATE CONTRACTS**
 - A. Delete **Articles 6.1.1, 6.1.2, 6.1.3, 6.1.4** in their entirety and insert the following:
 - 1. The term “Separate Contractor(s)” shall mean other contractors retained by the Owner under separate agreements. The Owner reserves the right to perform construction or operations related to the Project with the Owner’s own forces and to award separate contracts either in connection with other portions of the Project or other construction or operation on the site. In such event, the Contractor shall coordinate its activities with those of the Owner and of Separate Contractors so as to facilitate the general progress of all work being performed by all parties. Cooperation will be required in the arrangement for the storage of materials, and in the detailed execution of the Work.
 - 2. The Contractor, including his subcontractors, shall keep informed of the progress and the detailed work of the Owner or Separate Contractors and shall immediately notify the Architect of lack of progress or delays by Separate Contractors which are affecting Contractor’s Work. Failure of

Contractor to keep informed of the progress of the work of the Owner or Separate Contractors and/or failure of Contractor to give notice of lack of progress or delays by the Owner or Separate Contractors shall be deemed to be acceptance by Contractor of the status of progress by Separate Contractors for the proper coordination and completion of Contractor's Work. If, through acts or neglect on the part of the Contractor, the Owner or any Separate Contractors shall suffer loss or damage or assert any claims of whatever nature against the Owner, the Contractor shall defend, indemnify and hold harmless the Owner from any such claims or alleged damages, and the Contractor shall resolve such alleged damages or claims directly with the Separate Contractors.

2. 6.2 MUTUAL RESPONSIBILITY

- A. Delete **Article 6.2.3** in its entirety.

ARTICLE 7 - CHANGES IN THE WORK

1. 7.1 GENERAL

- A. Add the following to the end of **Article 7.1.3**:

1. Except as permitted in **Article 7.3**, a change in the Contract Sum or the Contract Time shall only be accomplished by written change order. Therefore, the Contractor acknowledges that it is not entitled to a change in the Contract Sum or the Contract Time in the absence of a written change order on the basis of the course of conduct or dealings between the parties and/or the Owner's express or implied acceptance of alterations or additions to the Work and/or the Owner has been unjustly enriched by the Contractor's Work or any other basis otherwise allowed by law or the facts and Contractor agrees that any such extra or changed work was performed by it as a volunteer.

2. 7.2 CHANGE ORDERS

- A. Add the following **Article 7.2.2**:

1. Contractor's execution of a change order constitutes a final settlement to the Contract Sum and construction schedule and the Contract Time for all matters relating to or arising out of the change in the Work that is the subject of the change order including, but not limited to, all direct and indirect costs associated with such change, all extended direct job site and home office overhead expenses and any and all delay and impact cost for the change, whether alone or in combination with other changes, including any impact, ripple or cumulative effect resulting therefrom, if any.

- B. Add the following **Article 7.2.3**:

1. Adjustments to the Contract Sum by change order shall be based upon one of the methods set forth in **Article 7.3.3.1, 7.3.3.2, 7.3.3.3 or 7.3.3.4**, as appropriate. A reasonable allowance for the combined overhead and profit included in the change order shall be based upon the schedule set forth in Article 7.3.11, as supplemented.

- C. Add the following **Article 7.2.4**:

1. In order to facilitate consideration of change order requests, all such requests, except those involving an amount less than \$500 must be accompanied by a complete itemization of costs, including labor, materials and subcontractor costs which shall likewise be itemized. Changes for more than \$500 will not be approved without such itemization.

3. 7.3 CONSTRUCTION CHANGE DIRECTIVES

- A. Add "Owner or" between "the" and "Contractor" in both places they appear in this Article.

- B. Delete the first sentence and insert the following:

1. The amount of credit to be given by the Contractor to the Owner for a deletion or change which results in a net decrease in the Contract Sum shall be the actual net cost plus reasonable allowance for overhead on net cost and profit thereon as approved by the Architect and Owner.

- C. Add the following **Article 7.3.11**:
1. The allowance for overhead and profit combined, including extended direct job and home office overhead and any and all delay, impact, inefficiency, disruption and ripple effect to be included in the total cost to the Owner, shall be based on the following schedule:
 - a. For the Contractor, for work performed by the Contractor's own forces, 15 percent of the cost.
 - b. For the Contractor, for work performed by the Contractor's subcontractor, 10 percent of the amount due the subcontractor.
 - c. For each subcontractor or sub-subcontractor involved, for work performed by that subcontractor or sub-subcontractor's own forces, 15 percent of the cost.
 - d. For each subcontractor, for work performed by the subcontractor's sub-subcontractor's, 10 percent of the amount due the sub-subcontractor.
 - e. Costs to which overhead and profit is to be applied shall be determined in accordance with **Article 7.3.4**.

ARTICLE 8 - TIME

1. 8.2 PROGRESS AND COMPLETION
 - A. Add the following to the end of the second sentence:
 1. and that the Contractor is fully capable of properly completing the Work within the Contract Time.
2. 8.3 DELAYS AND EXTENSIONS OF TIME
 - A. Add the following to the end of Article 8.3.3:
 1. No delay, interference, hindrance or disruption, from whatever source or cause, in the progress of the Contractor's Work shall be a basis for an extension of time and/or additional compensation, unless the delay, interference, hindrance or disruption (1) is without the fault and not the responsibility of the Contractor, its subcontractors and/or suppliers and (2) directly affects the overall completion of the Work as reflected on the critical path of the Contractor's updated and accepted construction schedules. The Contractor expressly agrees that the Owner shall have the benefit of any float in the construction schedule and that delays to construction activities, which do not affect the overall completion of the Work, do not entitle the Contractor to any extension in the Contract Time and/or increase in Contract Sum.
3. ADD THE FOLLOWING ARTICLE 8.3.4:
 - A. All claims by the Contractor for an increase in the Contract Time must follow the procedures set forth in Articles 15.1.2, 15.1.3, 15.1.5 and 15.1.6, including the requirement that the Contractor give written notice of any claim within twenty-one (21) days after occurrence of the event giving rise to such claim or within twenty-one (21) days after the Contractor first recognizes the condition giving rise to the claim, whichever is earlier.
4. ADD THE FOLLOWING ARTICLE 8.3.5:
 - A. If the Contractor submits a schedule indicating or otherwise expressing an intent to complete the Work prior to the date of substantial completion, the Owner shall have no liability to the Contractor for any failure by the Contractor to complete the Work prior to the expiration of the Contract Time.

ARTICLE 9 - PAYMENTS AND COMPLETION

1. 9.3 APPLICATION FOR PAYMENTS
 - A. Add the following sentence to the end of Article 9.3.1:
 1. The form of Application for Payment will be the current edition of the AIA Document G702, Application and Certification for Payment, supported with AIA Document G703, Continuation Sheet.

- B. Add the following Article 9.3.1.3:
 - 1. In any contract awarded by the state of Mississippi or any agency, unit or department of the State of Mississippi, or by any political subdivision thereof, the amount of retainage that may be withheld is governed by Mississippi law.
 - C. Add the following Article 9.3.2.1:
 - 1. Payment for materials stored at some location other than the Project site, may be approved by the Architect and the Owner after the Contractor has submitted the following items:
 - a. An acceptable Lease Agreement between the Contractor or one of its subcontractors or suppliers and the owner of the land, or building, where the materials are stored covering the specific area where the materials are located.
 - b. Consent of Surety or other acceptable bond to cover the materials stored off-site.
 - c. All Perils Insurance coverage for the full value of the materials stored off-site.
 - d. A Bill of Sale from the Manufacturer to the Contractor for the stored materials.
 - e. A complete list and inventory of materials manufactured, stored and delivered to the storage site and of materials removed from the storage site and delivered to the Project.
 - f. A review by the Architect of the materials stored off-site prior to release of payment.
 - g. Proof of payment of stored materials verified by the supplier must be submitted to the Architect within thirty (30) days of the Application for Payment on which payment for said materials was made. If proof of payment is not submitted within thirty (30) days, then payment for said materials will be deducted from the next application for payment and withheld until proof of payment is received.
2. 9.5 DECISIONS TO WITHHOLD CERTIFICATION
- A. Edit 9.5.1.7
 - 1. Delete the word **repeated**.
 - B. Add the following **Article 9.5.1.8**:
 - 1. The letter from the Contractor which is required by Article 15.1.6.2 has not been received.
3. 9.6 PROGRESS PAYMENTS
- A. Delete **Article 9.6.1** in its entirety and insert the following:
 - 1. Subject to the conditions of the Contract, the Owner shall make payment to the Contractor in the amount certified within thirty (30) days after receipt of the Certificate for Payment from the Architect. Payment shall not be considered late until thirty (30) days after Owner's receipt of the approved Certificate for Payment from the Architect.
 - B. 9.6.1.1 Contractor's Applications for Payment shall be submitted on or before the 25th day of each month. Any application not submitted on or before this date may not be processed or approved until the following month.
 - C. 9.6.7 Delete the word **Unless** from the first sentence and insert the phrase **Whether or not**.
 - D. Add the following to the end of **Article 9.6.7**:
 - 1. The amount retained by the Contractor from each payment to each Subcontractor and material supplier shall not exceed the percentage retained by the Owner from the Contractor for the Subcontractor's Work.
4. 9.7 FAILURE OF PAYMENT
- A. In the first sentence, delete the words "or awarded by binding dispute resolution".
5. 9.8 SUBSTANTIAL COMPLETION
- A. Delete **Article 9.8.1** in its entirety and insert the following:
 - 1. Substantial completion for purposes of this Contract occurs only upon Contractor's compliance with the following conditions precedent: (a) the Contractor furnishes to the Architect all close-out

documents required by the Contract Documents in a form satisfactory to the Architect and the Owner, (b) the Contractor furnishes the manufacturers' certifications and/or warranties required by the Contract Documents; (c) the Contractor furnishes the Guarantee of Work set forth hereinbelow; and (d) the Architect certifies that the Work is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended purpose.

2. The Guarantee of Work shall be submitted as a separate document signed by Contractor and Contractor's Surety and shall state the following:
 - a. Contractor and Contractor's Surety hereby guarantee that all Work performed on the Project is free from defective and/or nonconforming materials and workmanship and that for a period of one year from the date of substantial completion or such longer period of time as may be called for in the Contract Documents for such portions of the Work, Contractor or its Surety will repair and/or replace any defective and/or nonconforming materials and workmanship in accordance with the requirements of the Contract Documents.
- B. Add the following **Article 9.8.2.1**:
 1. The Contractor shall be responsible for the costs of inspections made by the Architect including any and all other related expenses incurred by the Architect for providing services for the Project required by failure of the Contractor to achieve final acceptance / completion of the Project within 30 days after the first occurrence of the below described events:
 - a. Specified date of Substantial Completion; or
 - b. Actual date of Substantial Completion.
 2. The costs of the Architect's additional services shall be deducted by the Owner from the Contractor's final application for payment to pay the Architect for additional services required by the Contractor's failure to achieve final completion of the project within the 30 day period described above.
- C. Delete the last sentence of **Article 9.8.4** and insert the following:
 1. Warranties required by the Contract Documents shall commence and continue for one (1) year from the date of Substantial Completion except that the roof system shall be warranted for a period of three (3) years from the date of Substantial Completion.
- D. Add the following to the end of **Article 9.8.5**:
 1. Contractor's execution of the Certificate of Substantial Completion constitutes Contractor's representation that the items on the list accompanying the Certificate can and will be completed by Contractor and his subcontractors within thirty (30) days of Contractor's execution of the Certificate. Based upon this representation by Contractor and upon the acknowledgment of the Architect that the listed items remaining can be completed within thirty (30) days, the Owner agrees to execute the Certificate of Substantial Completion. If Contractor fails to complete the items on the list within thirty (30) days of Contractor's execution of the Certificate, then the Owner, at its option and without prejudice to any other rights or remedies it may have under this Contract or otherwise and without notice to Contractor or Surety, may proceed to have same completed and to deduct the reasonable costs thereof from the amounts then due or thereafter to become due to Contractor.
- E. Add the following **Article 9.8.6**:
 1. The costs of inspections made by Architect which are not required by Articles 4, 9.8 or 9.10 of the General Conditions and any other inspection required by Article 12 other than the year-end inspection itself, will be the responsibility of the Contractor and will be deducted by the Owner from the Application for Payment submitted after the Owner's receipt of the Architect's statement

for its costs of additional inspections. These costs are not the result of Contractor's failure to timely complete the Contract within the specified time and, therefore, such costs are in addition to and not a part of any liquidated damages calculation, if any.

F. Add the following **Article 9.8.7**:

1. Upon the Owner's acceptance of the Work as substantially complete and upon Contractor's compliance with all conditions precedent to substantial completion as stated in Section 00800, Article 9.8.1 and upon application by the Contractor, the Owner will pay to the Contractor all retainage held by the Owner less an amount equal to the greater of (a) two percent (2%) of the Contract Sum, or (b) two hundred percent (200%) of the estimated cost of the Work remaining to be performed by the Contractor in accordance with the Architect's determination. Final payment, including all retainage, shall be made at the time and in the manner provided for final payment in accordance with the provisions of Article 9.10 and the additional conditions precedent to final acceptance / payment set forth in Section 00800, Article 9.8.5.

6. 9.9 PARTIAL OCCUPANCY OR USE

A. Add the following Article 9.9.1.2:

1. The Owner's occupancy or use of any completed or partially completed portions of the Work shall not affect Contractor's obligation to complete incomplete items on the list attached to the Certificate of Substantial Completion within the time fixed in the Certificate and does not waive Owner's right to obtain completion of incomplete items at Contractor's expense upon Contractor's failure to timely complete same.

7. 9.11 LIQUIDATED DAMAGES

A. Liquidated Damages. Time being of the essence of this Contract and a matter of material consideration thereof, a reasonable estimate in advance is established to cover losses incurred by the Owner if the Project is not substantially complete on the date set forth in the Contract Documents. The Contractor and his Surety will be liable for and will pay the Owner the sums hereinafter stipulated as fixed and agreed as liquidated damages for each calendar day for delay until the Work is substantially complete. The Contractor and his Surety acknowledge that the Owner's losses caused by the Contractor's delay are not readily ascertainable and that the amount estimated per day for liquidated damages is reasonable and is not a penalty.

B. The amount established per day for liquidated damages is \$250 (calculation of amount required).

ARTICLE 10 - PROTECTION OF PERSONS AND PROPERTY

1. 10.1 SAFETY PRECAUTIONS AND PROGRAMS

A. Add the following to the end of **Article 10.1**:

1. The Architect shall not administer the Contractor's performance of its duties and responsibilities under **Article 10** (including **Articles 10.1 through 10.6**) because the initiation, maintenance and supervision of safety precautions and programs is the sole responsibility of the Contractor as means, methods, techniques, sequences and procedures of construction and, therefore, is not part of the Contractor's scope of Work which is to be administered by the Architect.

ARTICLE 11 - INSURANCE AND BONDS

1. 11.1 CONTRACTOR'S LIABILITY INSURANCE

A. Add the new subparagraphs as follows:

1. *11.1.5 - The Contractor's limit of liability shall be written for not less than the following:*
 - a. *GENERAL LIABILITY:*
 - 1) Commercial General Liability (Including XCU)
 - 2) *General Aggregate* *\$ 1,000,000.00 Aggregate*

- 3) *Product & Completed Operation* \$ 1,000,000.00 Aggregate
- 4) *Personal & Advertising Injury* \$ 500,000.00 Per Occurrence
- 5) *Bodily Injury & Property Damages* \$ 500,000.00 Per Occurrence
- 6) *Fire Damage Liability* \$ 50,000.00 Per Occurrence
- 7) *Medical Expense* \$ 5,000.00 Per Occurrence
- b. **OWNER & CONTRACTORS PROTECTIVE LIABILITY**
 - 1) *Bodily Injury & Property Damages* \$ 1,000,000.00 Aggregate
 - 2) *Bodily Injury & Property Damages* \$ 500,000.00 Per Occurrence
- c. **AUTOMOBILE LIABILITY:**
 - 1) Owned, Non-owner & Hired Vehicles
 - 2) Contractor Insurance Option Number 1(Combined Single Limit):
 - 3) *Bodily Injury & Property Damages* \$ 500,000.00 Per Occurrence
 - 4) *Combined Single Limit*
 - 5) Contractor Insurance Option Number 2:
 - 6) *Bodily Injury* \$ 250,000.00 Per Occurrence
 - 7) *Bodily Injury* \$ 500,000.00 Per Accident
 - 8) *Property Damage* \$ 100,000.00 Per Occurrence
- d. **EXCESS LIABILITY:**
 - 1) *Umbrella on Projects over \$500,000.00*
 - 2) *Bodily Injury & Property Damages* \$ 1,000,000.00 Per Occurrence
 - 3) *Combined Single Limit*
- e. **WORKERS' COMPENSATION: As required by Statute**
 - 1) **EMPLOYERS' LIABILITY**
 - 2) *Accident* \$ 100,000.00 Per Occurrence
 - 3) *Disease* \$ 500,000.00 Policy Limit
 - 4) *Disease* \$ 100,000.00 Per Occurrence
- f. **PROPERTY INSURANCE:**
 - 1) *Builder's Risk* \$ Equal to Value of Work
 - 2) *or Installation Floater* \$ Equal to Value of Work
- 2. 11.1.6 - *Furnish one (1) copy of the Standard Construction Contract Certificate of Insurance Form for each copy of the Standard Form of Agreement Between Owner and Contractor specifically setting forth evidence of all coverage required by Subparagraphs 11.1.1, 11.1.2 and 11.1.3. Furnish to the Owner copies of any endorsements that are subsequently issued amending limits of coverage.*
- 3. 11.1.7 - *If the coverage are provided on a claims-made basis, the policy date or retroactive date shall predate the Contract; the terminations date, or the policy, or applicable extended reporting period shall be no earlier than the termination date of coverage required to be maintained after final payment.*

2. 11.2 OWNER'S LIABILITY INSURANCE

- A. Delete Subparagraph 11.2.1 its entirety and substitute the following:
 - 1. 11.2.1 - *Certificate of this insurance will be filed with the Owner and will be the same limits set forth in 11.1.5.*

3. 11.3 PROPERTY INSURANCE (BUILDER'S RISK OR INSTALLATION FLOATER)

- A. Change the first line in Subparagraph 11.3.1 to read as follows:
 - 1. Unless otherwise provided, the Contractor shall purchase.....
- B. Delete Clause 11.3.1.2 under Subparagraph 11.3.1 in its entirety.

- C. Change Subparagraph 11.3.1.3 to read as follows:
 - D. If the property insurance requires deductibles, the Contractor shall pay cost not covered because of such deductibles.
 - E. Delete Subparagraph 11.3.2 in its entirety.
 - F. Delete Subparagraph 11.3.3 in its entirety.
 - G. Delete Subparagraph 11.3.4 in its entirety.
 - H. Delete Subparagraph 11.3.5 in its entirety.
 - I. Delete Subparagraph 11.3.6 in its entirety.
 - J. Change Subparagraph 11.3.10 to read as follows:
 - 1. The Owner as fiduciary shall have power to adjust and settle a loss with Insurers unless one of the parties in interest shall object in writing within five (5) days after occurrence of loss.
1. 11.4 LOSS OF USE, BUSINESS INTERRUPTION, AND DELAY IN COMPLETION INSURANCE
- A. Delete **Article 11.4** in its entirety.

ARTICLE 12 - UNCOVERING AND CORRECTION OF WORK

1. 12.1 UNCOVERING OF WORK
- A. Delete the second sentence of **Article 12.1.2** entirely and replace with:
 - 1. "If such Work is in accordance with the Contract Documents, costs of uncovering and replacement shall, by appropriate Change Order, be at the Owner's expense."
2. 12.2 CORRECTION OF WORK
- A. 12.2.2 AFTER SUBSTANTIAL COMPLETION
 - B. Add the following to the end of **Article 12.2.2.1**:
 - 1. Prior to the end of the one-year period, (three years for roof systems), the Architect may schedule a warranty inspection which shall be attended by the Architect, the Owner, the Contractor and all major subcontractors. During this inspection, the parties shall identify all defective and/or nonconforming items and fix a time within which all defective and/or nonconforming items shall be repaired and/or replaced.
 - C. Add the following **Article 12.2.2.1.1**:
 - 1. Within the one-year period (three years for roof systems) provided for in the Guarantee of Work required by **Article 9.8.1**, if repairs or replacement are requested by Owner in connection with the Work which, in the opinion of the Owner, are rendered necessary as a result of the use of materials, equipment or workmanship which are inferior, defective or not in accordance with the Contract Documents, the Contractor and/or its Surety shall promptly, upon receipt of notice from and without expense to the Owner, place in satisfactory condition in every particular, all such Work, correct all defects therein and make good all damages to the building, site, equipment or contents thereof; and make good any work or materials or the equipment and contents of said buildings or site disturbed in fulfilling any such guarantee. If, after notice or within the time agreed upon by the parties at the warranty inspection, the Contractor and/or its Surety fail to proceed promptly to comply with the terms of the guarantee, the Owner may have the defects corrected in accordance with **Article 2.5** and the Contractor and his Surety shall be liable for all expenses incurred. All special guarantees applicable to definite parts of the Work stipulated in the Contract Documents shall be subject to the terms of this paragraph during the first year of the life of such special guarantee.

ARTICLE 13 - MISCELLANEOUS PROVISIONS

1. 13.5 INTEREST
 - A. Delete **Article 13.5** in its entirety and insert the following:
 1. Payments due and unpaid under the Contract Documents shall bear interest as provided by applicable Mississippi law.
2. 13.6 ATTORNEYS' FEES AND EXPENSES
 - A. Add the following **Article 13.6** to private projects not funded in whole or in part by public monies.
 1. The prevailing party in any dispute between the parties arising out of or related to this Agreement or the breach thereof, shall be entitled to reasonable attorneys' and expert witness(es) fees and expenses incurred in pursuing or defending any claim.

ARTICLE 14 - TERMINATION OR SUSPENSION OF THE CONTRACT

1. 14.1 TERMINATION BY THE CONTRACTOR
 - A. Delete **Article 14.1.1.4** in its entirety.
 - B. Delete “, as well as reasonable overhead and profit on Work not executed,” between “executed” and “and” in the third line.
2. 14.2 TERMINATION BY THE OWNER FOR CAUSE
 - A. Delete the word **repeatedly** from **Article 14.2.1.1**.
 - B. Delete the word **repeatedly** from **Article 14.2.1.3**.
3. ADD THE FOLLOWING ARTICLES 14.2.1.5 AND 14.2.1.6:
 - A. .5 fails to achieve Substantial Completion of the Project as described in Section 00800, Article 9.8.5, within the time stated therein;
 - B. .6 fails to meet any deadline required by the Contract. Contractor acknowledges that time is of the essence of this Contract and that all deadlines required by the Contract are critical to timely completion of the Contract. Therefore, Contractor agrees that its failure to meet any deadline constitutes a substantial and material breach of this Contract, entitling the Owner to terminate the Contract.
4. DELETE THE WORD **CERTIFICATION** IN THE FIRST SENTENCE AND INSERT THE WORD **ADVICE** FROM **ARTICLE 14.2.2**.
 - A. Delete the phrase **Initial Decision Maker** and insert the word **Architect** from **Article 14.2.4**.
 - B. Add the following Article 14.2.5:
 1. If the Owner terminates the Contract for cause, and it is determined for any reason that the Contractor was not actually in default under the Contract at the time of termination, the Contractor shall be entitled to recover from the Owner the same amount as the Contractor would be entitled to receive under a termination for convenience as provided by Article 14.4. The foregoing shall constitute the Contractor's sole and exclusive remedy for termination of the Contract. In no event shall the Contractor be entitled to special, consequential, or exemplary damages, nor shall the Contractor be entitled to anticipated profits resulting from termination of this Contract.
5. 14.4 TERMINATION BY THE OWNER FOR CONVENIENCE
 - A. Add after the end of that sentence: **The Contractor shall not be entitled to receive any payment for either overhead or profit on work not performed.**

ARTICLE 15 - CLAIMS AND DISPUTES

1. DELETE THE FOLLOWING PHRASE FROM **ARTICLE 15.1.2**:
 - A. “in accordance with the requirements of the final dispute resolution method selected within the Agreement”.

2. 15.1.6 CLAIMS FOR ADDITIONAL TIME

A. Add the following to the end of **Article 15.1.6.2**:

1. The Contractor must submit each month with his Application for Payment a separate letter stating that he is requesting an extension of time for abnormal adverse weather or that he has no claim for an extension for that period of time. Payment is not due on the Application for Payment until the letter is received. Complete justification, including weather reports, daily reports, correspondence and any other supporting data must be provided for each day for which a request for time extension is made. A letter or statement that the Contractor was delayed is not as adequate justification. The receipt of this request and data by the Architect will not be considered as Owner or Architect approval of a time extension in any way.

B. Add the following **Article 15.1.6.3**:

1. The following schedule of monthly anticipated adverse weather delays is based on National Oceanic and Atmospheric Administration (NOAA) or similar data for the Project location and will constitute the baseline for monthly weather time evaluations. The Contractor's activity durations in the progress schedule must reflect these anticipated adverse weather delays in all weather-dependent activities.

2. MONTHLY ANTICIPATED ADVERSE WEATHER DAYS BASED ON FIVE (5) DAY WORK WEEK.

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
6	6	5	5	5	5	5	7	4	4	4	7

3. Upon acknowledgment of the Notice of Proceed (NTP) and continuing throughout the Contract, the Contractor shall record on the daily report, the occurrence of adverse weather and resultant impact to normally scheduled Work. Actual adverse weather delay days must prevent work on the Project's critical activities for 50 percent or more of the Contractor's scheduled work day. The number of actual adverse weather days shall include days impacted by actual adverse weather (even if adverse weather occurred in previous month), be calculated chronologically from the first to the last day of each month, and be recorded as full days. If the number of actual adverse weather delay days exceeds the number of days anticipated in the table, above, the Owner and the Architect will convert any qualifying delays to calendar days, giving full consideration for equivalent fair weather work days, and issue a modification in accordance with the contract.
4. Time Extension for Weather not Allowed: Add the following in lieu of **Article 15.1.6.3**:
 - a. The Contractor assumes the risk of both normal and abnormally adverse weather and will not be entitled to any time extension or Contract price adjustment for either normal or abnormally adverse weather encountered during construction, notwithstanding any other provision of the Contract to the contrary.

3. ADD THE FOLLOWING **ARTICLE 15.1.6.4**:

- A. Claims for increase in the Contract Time shall set forth in detail the facts and circumstances which support such Claim, including but not limited to, the cause of such delay, the date such delay began to affect the critical path, the date such delay ceased to affect the critical path and the number of days of additional time requested. The Contractor shall not be entitled to an increase in the Contract Time for delays which did not affect the critical path or to the extent there were concurrent non-excusable delays. The Contractor may be requested to provide additional documentation to substantiate its Claim, including but not limited to, schedules that indicate all activities affected by such delay.

4. ADD THE FOLLOWING **ARTICLE 15.1.8**:

- A. The Contractor expressly agrees that the Article 15 Claims and Disputes process is the only dispute resolution mechanism that will be recognized by the parties for any claims put forward by the

Contractor, notwithstanding any other claimed theory of entitlement on the part of the Contractor or its subcontractors or suppliers against the Owner and/or the Architect or any of their design consultants, including, but not limited to, all claims of breach of contract, breach of warranty, misrepresentation, negligence, professional negligence, and/or any other tort.

5. 15.2 INITIAL DECISION
 - A. Add **within thirty (30) days** to the end of **Article 15.2.4**.
6. 15.3 MEDIATION
 - A. Delete the phrase **shall be subject to mediation as a condition precedent to binding dispute resolution** and insert the phrase **may be subject to mediation upon mutual agreement of the Owner and Contractor**.
 - B. Delete the word **shall** in the first sentence wherever it appears and insert the word **may**.
 - C. Delete **Article 15.3.3** in its entirety.
7. 15.4 ARBITRATION
 - A. Delete the words **parties have** in the first sentence and insert the words **Owner has** and delete the phrase **unless the parties mutually agree** in the first sentence and insert the phrase **unless the Owner chooses**.
8. 15.4.4 CONSOLIDATION OR JOINDER
 - A. Delete **Article 15.4.4**, including subparts .1 - .3, in its entirety and insert the following:
 1. .4.1 The Owner, at its sole discretion, may consolidate any arbitration, if any, conducted under this Agreement with any other arbitration to which it is a party where the Owner determines that the arbitrations to be consolidated substantially involve common questions of law or fact and the Owner, at its sole discretion, may include by joinder persons or entities substantially involved in a common question of law or fact whose presence is required if complete relief is to be accorded in arbitration.

END OF SECTION

Sprayed Insulation

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Fiberglass insulation placed in walls.
 - B. Protective overcoat.
2. RELATED REQUIREMENTS
 - A. Section 01.6116 - Volatile Organic Compound (VOC) Content Restrictions.
3. REFERENCE STANDARDS
 - A. ASHRAE Std 90.1 I-P - Energy Standard for Buildings Except Low-Rise Residential Buildings; 2013, Including All Amendments and Errata.
 - B. ASTM C177 - Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate Apparatus; 2013.
 - C. ASTM C518 - Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus; 2010.
 - D. ASTM C739 - Standard Specification for Cellulosic Fiber (Wood-Base) Loose-Fill Thermal Insulation; 2011.
 - E. ASTM C1014 - Standard Specification for Spray-Applied Mineral Fiber Thermal and Sound Absorbing Insulation; 2008 (Reapproved 2013).
 - F. ASTM D1622/D1622M - Standard Test Method for Apparent Density of Rigid Cellular Plastics; 2014.
 - G. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
 - H. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2012.
 - I. ITS (DIR) - Directory of Listed Products; current edition.
 - J. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Provide data on materials, describing insulation properties.
 - C. Certificates: Certify that products of this section meet or exceed specified requirements.
 - D. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
 - E. Manufacturer's Qualification Statement.
 - F. Installer's Qualification Statement.
5. QUALITY ASSURANCE
 - A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
 - B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.
 - C. Products Specified by Flammability Criteria: Listed and classified by ITS (DIR), UL (DIR), or authorities having jurisdiction (AHJ).
6. FIELD CONDITIONS
 - A. Do not install insulation, sealer when ambient and surface temperatures are lower than ____ degrees F (____ degrees C).
 - B. Maintain acceptable ambient and substrate surface temperatures prior to, during, and after installation of primer and insulation materials and overcoat.

PART 2 PRODUCTS

1. MANUFACTURERS

A. Open-Cell Sprayed Insulation:

1. Icynene-Lapolla (Basis of Design); _____: www.icynene-lapolla.com/#sle.
2. Johns Manville; _____: www.jm.com/#sle.
3. Owens Corning; _____: www.owenscorning.com//#sle.
4. Carlisle Companies; _____: www.carlisesfi.com//#sle.
5. Substitutions: See Section 01.6000 - Product Requirements.

B. Closed-Cell Sprayed Insulation:

1. Icynene-Lapolla (Basis of Design); _____: www.icynene-lapolla.com/#sle.
2. Johns Manville; _____: www.jm.com/#sle.
3. Owens Corning; _____: www.owenscorning.com//#sle.
4. Carlisle Companies; _____: www.carlisesfi.com//#sle.
5. Substitutions: See Section 01.6000 - Product Requirements.

2. MATERIALS

A. Open-Cell Spray Foam Insulation: ASTM C739, white color.

1. Thermal Resistance (R-value (RSI-value)): 3.9 (0.67), at 1 inch (25.4 mm) thick when tested in accordance with ASTM C518 at 75 degrees F (23 degrees C) temperature
2. Density: 0.5 lb/cu ft (____ kg/cu m), when tested in accordance with ASTM D1622/D1622M.
3. Noise Reduction Coefficient (NRC): 0.70 when tested in accordance with ASTM C423
4. Flame Spread / Smoke Developed Index: 0-25 / 0-450, Class A, when tested in accordance with ASTM E84.
5. Combustibility: Passing ASTM E136.
6. Open-Cell Content: Greater than 90% when tested in accordance with ASTM D2846
7. Dimensional Stability: Less than 15% change in volume when tested in accordance with ASTM D2126

B. Closed-Cell Spray Foam Insulation: ASTM C1014.

1. Thermal Resistance (R-value (RSI-value): 7.0 (____), at 3-1/2 inch (89 mm) thick when tested in accordance with ASTM C518 at 75 degrees F (23 degrees C) temperature.
2. Density: 2.0 lb/cu ft (____ kg/cu m).
3. Noise Reduction Coefficient (NRC): 0.70 for 3 inch (75 mm) thickness.
4. Flame Spread / Smoke Developed Index: 0-25 / 0-450, Class A, when tested in accordance with ASTM E84.
5. Combustibility: Passing ASTM E136.
6. Closed-Cell Content: Greater than 90% when tested in accordance with ASTM D2856
7. Dimensional Stability: Less than 9% change in volume when tested in accordance with ASTM D2126

C. Thermal Resistance [R-value (RSI-value)]: Provided minimum values in accordance with applicable edition of ASHRAE Std 90.1 I-P for envelope requirements of building location and climate zone.

3. ACCESSORIES

- A. Primer: As required by insulation manufacturer.
- B. Surface Sealer: Clear, latex based for placement over insulation.
- C. Protective Overcoat: Cementitious type, spray applied; flame spread / smoke developed index of 0-25 / 0-450, Class A, when tested in accordance with ASTM E84.
- D. Insulation Stop: Plastic, profiled and sized to suit rafter spacing and wall/sloped roof configuration.

- E. Roof Ventilation Baffles: Prefabricated ventilation channels for placement under roof sheathing with baffles to prevent wind-washing.
 - 1. Material: Polyvinyl chloride (PVC).
 - 2. Roof Joist/Truss Spacing: 16 inch (406 mm) on center, nominal.
 - 3. Manufacturers:
 - a. Brentwood Industries, Inc; AccuVent Original: www.brentwoodindustries.com/#sle.
 - b. Substitutions: See Section 01.6000 - Product Requirements.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Verify that surfaces are clean, dry, and free of matter that may inhibit adhesion.
 - B. Verify that ceiling hangers and supporting clips have been installed correctly.
 - C. Verify other work on and within spaces to be insulated is complete prior to application.
- 2. PREPARATION
 - A. Mask and protect adjacent surfaces from overspray or damage.
 - B. Apply primer in accordance with manufacturer's instructions.
 - C. Install insulation stops between rafters at wall/sloped roof construction to prevent insulation from covering soffit vents or from limiting air circulation from soffit to attic space.
- 3. INSTALLATION
 - A. Utilize Open-Cell Spray Foam Insulation Type at the Roofs (R-38). Utilize Closed-Cell Spray Foam Insulation Type at Walls (R-13), typical.
 - B. Install sprayed insulation in accordance with manufacturer's instructions.
 - C. Install sprayed insulation to a uniform monolithic density without voids.
 - D. Install to achieve a thermal resistance R-value of ____ (RSI-value of ____).
 - E. Tamp wet sprayed insulation surface to improve adhesion and to achieve a smooth surface.
 - F. Apply overcoat to a uniform thickness of ____ inch (____ mm), minimum.
 - 1. Apply overcoat monolithically and without voids; fully cover sprayed insulation.
- 4. FIELD QUALITY CONTROL
 - A. Independent agency field inspection will be provided under provisions of Section 01.4000 - Quality Requirements.
 - B. Inspection will include verification of sprayed insulation and surface sealer thickness and density.
- 5. PROTECTION
 - A. Do not permit subsequent construction work to disturb applied sprayed insulation.

END OF SECTION

Metal Roof Panels

PART 1 GENERAL

1. SECTION INCLUDES
 - A. Architectural roofing system of preformed aluminum panels.
 - B. Thermal roof insulation.
 - C. Attachment system.
 - D. Finishes.
 - E. Accessories.
2. RELATED REQUIREMENTS
 - A. Section 01.2300 - Alternates. See Alternate 01.
 - B. Section 05.1200 - Structural Steel Framing: Roof framing and purlins.
 - C. Section 06.1000 - Rough Carpentry: Roof sheathing.
 - D. Section 07.4213 - Metal Wall Panels: Preformed wall panels.
 - E. Section 07.9200 - Joint Sealants: Sealing joints between metal roof panel system and adjacent construction.
3. REFERENCE STANDARDS
 - A. ASTM D1970/D1970M - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection; 2013.
 - B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
4. SUBMITTALS
 - A. See Section 01.3000 - Administrative Requirements, for submittal procedures.
 - B. Product Data: Manufacturer's data sheets on each product to be used, including:
 1. Storage and handling requirements and recommendations.
 2. Installation methods.
 3. Specimen warranty.
 - C. Shop Drawings: Include layouts of roof panels, details of edge and penetration conditions, spacing and type of connections, flashings, underlayments, and special conditions.
 1. Show work to be field-fabricated or field-assembled.
 2. Include structural analysis signed and sealed by qualified structural engineer, indicating compliance of roofing system to specified loading conditions.
 - D. Selection Samples: For each roofing system specified, submit color chips representing manufacturer's full range of available colors and patterns.
 - E. Verification Samples: For each roofing system specified, submit samples of minimum size 12 inches (305 mm) square, representing actual roofing metal, thickness, profile, color, and texture.
 1. Include typical panel joint in sample.
 2. Include typical fastening detail.
 - F. Test Reports: Indicate compliance of metal roofing system to specified requirements.
 - G. Warranty: Submit specified manufacturer's warranty and ensure that forms have been completed in Owner's name and are registered with manufacturer.
5. QUALITY ASSURANCE
 - A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years of documented experience.
 - B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.
6. WARRANTY
 - A. See Section 01.7800 - Closeout Submittals, for additional warranty requirements.

- B. Galvalume Substrate Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including rupturing, or perforating.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Verify available warranties and warranty periods for metal panels.
 - 3. Warranty Period: 20 years and 6 months from date of Substantial Completion.
- C. Finish Warranty: Provide manufacturer's special warranty covering failure of factory-applied exterior finish on metal roof panels and agreeing to repair or replace panels that show evidence of finish degradation, including significant fading, chalking, cracking, or peeling within specified warranty period of 20 year period from date of Substantial Completion.
- D. Waterproofing Warranty: Provide manufacturer's warranty for weathertightness of roofing system, including agreement to repair or replace roofing that fails to keep out water within specified warranty period of 5 years from date of Substantial Completion.
- E. Special Installer Warranty: Furnish a written warranty signed by the Panel Applicator guaranteeing materials and workmanship for watertightness of the roofing system, flashings, penetrations, and against all leaks.
 - 1. Warranty Period: Two years from date of Substantial Completion.

PART 2 PRODUCTS

- 1. MANUFACTURERS
 - A. Metal Roof Panels:
 - 1. Berridge Manufacturing Company; Zee-Lock Panel: www.berridge.com/#sle.
 - 2. Drexel Metals Inc; 200S Profile: www.drexmet.com/#sle.
 - 3. Firestone Building Products LLC; _____: www.firestonebpco.com/#sle.
 - 4. Metl-Span, a Division of NCI Group, Inc; ____: www.metlspan.com/#sle.
 - 5. Petersen Aluminum Corporation; Snap-Clad Panel: www.pac-clad.com/#sle.
 - 6. or approved equal..
 - B. Substitutions: See Section 01.6000 - Product Requirements.
- 2. ATTACHMENT SYSTEM
 - A. Concealed System: Provide manufacturer's standard stainless steel or nylon-coated aluminum concealed anchor clips designed for specific roofing system and engineered to meet performance requirements, including anticipated thermal movement.
- 3. FINISHES
 - A. Two Coat Fluoropolymer Coating System: Manufacturer's standard multi-coat thermocured coating system, including minimum 70 percent fluoropolymer color topcoat with minimum total dry film thickness of .10 mil (___ mm); color and gloss as selected from manufacturer's standards.
- 4. ACCESSORIES
 - A. Miscellaneous Sheet Metal Items: Provide flashings, gutters, downspouts, trim, moldings, closure strips, preformed crickets, caps, and equipment curbs of the same material, thickness, and finish as used for the roofing panels. Items completely concealed after installation may optionally be made of stainless steel.
 - B. Rib and Ridge Closures: Provide prefabricated, close-fitting components of steel with corrosion resistant finish or combination steel and closed-cell foam.

- C. Roof Curbs: Fabricated from same material as roof panels, supply an integral full-length cricket for curbs wider than 24 inches (610 mm) supported by a structural metal deck. Fabricate curb flashing from [0.024 inch (0.61 mm)] [0.029 inch (0.74mm)]. On open framing, provide roof underlayment and decking at and about roof curb per roofing manufacturer's requirements. Maintain a minimum of 1/2 of roofing panel width on each side of roof curb, and start panels a minimum of 9 inches (229 mm) up slope of roof curb, flashing roofing panels to roof curb per roofing manufacturer's requirements.. Fabricate curb and subframing to withstand indicated loads of size and height of roof top equipment. Where required insulate roof curbs with rigid insulation.
 - D. Sealants:
 - 1. Exposed Sealant: Elastomeric; silicone, polyurethane, or silyl-terminated polyether/polyurethane.
 - 2. Concealed Sealant: Non-curing butyl sealant or tape sealant.
 - E. Thermal Insulation: Provide rigid type, thermally efficient non-structural composite insulation. Consisting of closed-cell polyisocyanurate (polyiso) roof insulation board bonded to Oriented Strand Board (OSB) on the top face. faced with white, flexible, non-dusting vapor retarder tested for maximum flame spread index of 50, per ASTM E84; for installation using spacer blocks.
 - 1. Composite Panel Thickness: 4".
 - F. Underlayment WP #1: Self-adhering rubber-modified asphalt sheet complying with ASTM D1970/D1970M; 40 mil (1.02 mm) total thickness; with strippable release film and embossed, slip resistant top surface. See 07.1300 Sheet Waterproofing WP #1 for use under metal roof.
 - 1. Sheet Thickness: 40 mil (0.040 inch) (1 mm) minimum total thickness.
 - 2. Manufacturers:
 - a. GCP Applied Technologies; Grace Ice and Water Shield HT or Architect's Approved Equal. _____.
5. FABRICATION
- A. Factory Fabrication Panels: Fabricate and finish panels and accessory items at factory, using manufacturer's standard processes as required to achieve specified appearance and performance requirements.
 - B. On-Site Fabrication: Subject to compliance with requirements of this Section, metal panels may be fabricated on-site using factory set, non-adjustable, portable roll-forming equipment if panels are of same profile and warranted by manufacturer to be equal to factory-formed panels. Fabricate according to equipment manufacturer's written instructions and to comply with details shown.
 - C. Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.
 - 1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.
 - 2. Sealed Joints: Form nonexpansion, but movable, joints in metal to accommodate sealant and to comply with SMACNA standards.
 - 3. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended in writing by metal panel manufacturer.
 - a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal panel manufacturer for application, but not less than thickness of metal being secured.

PART 3 EXECUTION

- 1. EXAMINATION
 - A. Do not begin installation of preformed metal roof panels until substrates have been properly prepared.

- B. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal panel supports, and other conditions affecting performance of the Work.
 - 1. Retain one or both subparagraphs below.
 - 2. Examine primary and secondary roof framing to verify that rafters, purlins, angles, channels, and other structural panel support members and anchorages have been installed within alignment tolerances required by metal roof panel manufacturer.
 - 3. Examine solid roof sheathing to verify that sheathing joints are supported by framing or blocking and that installation is within flatness tolerances required by metal roof panel manufacturer.
 - a. Retain subparagraph below with subparagraph above for systems that depend on air- or water-resistive barriers to prevent air infiltration or water penetration.
 - b. Verify that air- or water-resistive barriers have been installed over sheathing or backing substrate to prevent air infiltration or water penetration.
- C. Examine roughing-in for components and systems penetrating metal panels to verify actual locations of penetrations relative to seam locations of metal panels before installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.
- E. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

2. INSTALLATION

- A. Overall: Install roofing system in accordance with approved shop drawings and panel manufacturer's instructions and recommendations, as applicable to specific project conditions. Anchor all components of roofing system securely in place while allowing for thermal and structural movement.
 - 1. Install roofing system with concealed clips and fasteners, except as otherwise recommended by manufacturer for specific circumstances.
 - 2. Minimize field cutting of panels. Where field cutting is absolutely required, use methods that will not distort panel profiles. Use of torches for field cutting is absolutely prohibited.
- B. Self-Adhering Sheet Underlayment Installation: Apply primer if required by manufacturer. Comply with temperature restrictions of underlayment manufacturer for installation. Apply at locations indicated [below] [on Drawings], wrinkle free, in shingle fashion to shed water, and with end laps of not less than 6 inches (152 mm) staggered 24 inches (610 mm) between courses. Overlap side edges not less than 36 inches (914.4 mm).[Extend underlayment into gutter trough.] Roll laps with roller. Cover underlayment within 14 days or as directed by the underlayment product manufacturer.
 - 1. Apply over the entire roof surface.
- C. Accessories: Install all components required for a complete roofing assembly, including flashings, gutters, downspouts, trim, moldings, closure strips, preformed crickets, caps, equipment curbs, rib closures, ridge closures, and similar roof accessory items.
- D. Roof Panels: Install panels in strict accordance with manufacturer's instructions, minimizing transverse joints except at junction with penetrations.
 - 1. Form weathertight standing seams incorporating concealed clips, using an automatic mechanical seaming device approved by the panel manufacturer.
 - 2. Incorporate concealed clips at panel joints, and apply snap-on battens to provide weathertight joints.
- E. Insulation: Install insulation between roof covering and supporting members to present a neat appearance. Fold, staple, and tape seams unless otherwise approved by Architect.

3. CLEANING

- A. Clean exposed sheet metal work at completion of installation. Remove grease and oil films, excess joint sealer, handling marks, and debris from installation, leaving the work clean and unmarked, free from

dents, creases, waves, scratch marks, or other damage to the finish.

4. PROTECTION

- A. Do not permit storage of materials or roof traffic on installed roof panels. Provide temporary walkways or planks as necessary to avoid damage to completed work. Protect roofing until completion of project.
- B. Touch-up, repair, or replace damaged roof panels or accessories before Date of Substantial Completion.

END OF SECTION

SECTION 26.3214
NATURAL GAS GENERATOR SETS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes packaged engine-generator sets suitable for use in applications with the features as specified and indicated where the engine generators will be used as the Standby power source for the system.

1.3 DEFINITIONS

- A. Emergency Standby Power (ESP): Per ISO 8528: The maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 hours of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output (Ppp) over 24 hours of operation shall not exceed 70 percent of the ESP unless otherwise agreed by the RIC engine manufacturer.
- B. Operational Bandwidth: The total variation from the lowest to highest value of a parameter over the range of conditions indicated, expressed as a percentage of the nominal value of the parameter.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of packaged engine generator indicated. Include rated capacities, operating characteristics, and furnished specialties and accessories. In addition, include the following:
 - 1. Thermal damage curve for generator.
 - 2. Time-current characteristic curves for generator protective device.
 - 3. Sound test data, based on a free field requirement.
- B. Shop Drawings: Detail equipment assemblies and indicate dimensions, weights, and location and size of each field connection.
 - 1. Dimensioned outline plan and elevation drawings of engine-generator set and other components specified.
 - 2. Wiring Diagrams: Control interconnection, Customer connections.
- C. Certifications:
 - 1. Submit statement of compliance which states the proposed product(s) is certified to the emissions standards required by the location for EPA, stationary emergency application.

1.5 INFORMATIONAL SUBMITTALS

- A. Source quality-control test reports.

1. Certified summary of prototype-unit test report. See requirements in Part 2 "Source Quality Control" Article Part A. Include statement indicating torsional compatibility of components.
 2. Certified Test Report: Provide certified test report documenting factory test per the requirements of this specification, as well as certified factory test of generator set sensors per NFPA110 level 1.
 3. List of factory tests to be performed on units to be shipped for this Project.
 4. Report of exhaust emissions and compliance statement certifying compliance with applicable regulations.
- B. Warranty:
1. Submit manufacturer's warranty statement to be provided for this Project.

1.6 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for installation of units required for this Project.
- B. Manufacturer Qualifications: A qualified manufacturer. Maintain, within Jackson of Project site, a service center capable of providing training, parts, and emergency maintenance repairs.
- C. Source Limitations: Obtain packaged generator sets and auxiliary components through one source from a single manufacturer.
- D. Comply with NFPA 37 (Standard For the Installation and Use of Stationary Combustion Engines and Gas Turbines).
- E. Comply with NFPA 70 (National Electrical Code. Equipment shall be suitable for use in systems in compliance to Article 700, 701, and 702).
- F. Comply with NFPA 110 (Emergency and Standby Power Systems) requirements for Level 1 emergency power supply system.
- G. Comply with UL 2200.
- H. Noise Emission: Comply with Applicable state and local government requirements for maximum noise level at Adjacent property boundaries due to sound emitted by generator set including engine, engine exhaust, engine cooling-air intake and discharge, and other components of installation.

1.7 PROJECT CONDITIONS

- A. Environmental Conditions: Engine-generator system shall withstand the following environmental conditions without mechanical or electrical damage or degradation of performance capability:
 1. Ambient Temperature: 0.0 deg C (32.0 deg F) to 40.0 deg C (104.0 deg F).
 2. Relative Humidity: 0 to 95 percent.
 3. Altitude: Sea level to 500.0 feet (152.4 m).

1.8 WARRANTY

- A. Base Warranty: Manufacturer shall provide base warranty coverage on the material and workmanship of the generator set for a minimum of twenty-four (24) months for Standby product and twelve (12) months for Prime/Continuous product from registered commissioning and start-up.
- B. Option for Extended Warranty: Manufacturer shall offer extend coverage of 5 years from date of registered commissioning and start-up.
- C. Warranty on generator set shall be “bumper-to-bumper.” All components of generator set shall have warranty under the same manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: The basis for this specification is Cummins Power Generation equipment, approved equals may be considered if equipment performance is shown to meet the requirements herein.

2.2 ENGINE-GENERATOR SET

- A. Factory-assembled and -tested, engine-generator set.
- B. Mounting Frame: Maintain alignment of mounted components without depending on concrete foundation; and have lifting attachments.
 - 1. Rigging Information: Indicate location of each lifting attachment, generator-set center of gravity, and total package weight in submittal drawings.
- C. Capacities and Characteristics:
 - 1. Power Output Ratings: Electrical output power rating for Standby operation of not less than 150.0, at 80 percent lagging power factor, 120/208, Parallel Wye, Three phase, 4 -wire, 60 hertz.
 - 2. Alternator shall be capable of accepting maximum 920.0 kVA in a single step and be capable of recovering to a minimum of 90% of rated no load voltage. Following the application of the specified kVA load at near zero power factor applied to the generator set.
 - 3. Nameplates: For each major system component to identify manufacturer's name and address, and model and serial number of component. The engine-generator nameplate shall include information of the power output rating of the equipment.
- D. Generator-Set Performance:
 - 1. Steady-State Voltage Operational Bandwidth: 1.0 percent of rated output voltage from no load to full load.
 - 2. Transient Voltage Performance: Not more than 20 percent variation for 50 percent step-load increase or decrease. Voltage shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable voltage within 10 seconds.
 - 3. Steady-State Frequency Operational Bandwidth: 0.5 percent of rated frequency from no load to full load.

4. **Steady-State Frequency Stability:** When system is operating at any constant load within the rated load, there shall be no random speed variations outside the steady-state operational band and no hunting or surging of speed.
5. **Transient Frequency Performance:** Not more than 15 percent variation for 50 percent step-load increase or decrease. Frequency shall recover and remain within the steady-state operating band within 5 seconds. On application of a 100% load step the generator set shall recover to stable frequency within 10 seconds.
6. **Output Waveform:** At full load, harmonic content measured line to line or line to neutral shall not exceed 5 percent total and 3 percent for any single harmonic. Telephone influence factor, determined according to NEMA MG 1, shall not exceed 50.
7. **Sustained Short-Circuit Current:** (For engine-generator sets using a PMG-excited alternator) For a 3-phase, bolted short circuit at system output terminals, system shall supply a minimum of 300 percent of rated full-load current for not less than 8 seconds without damage to generator system components. For a 1-phase, bolted short circuit at system output terminals, system shall regulate both voltage and current to prevent over-voltage conditions on the non-faulted phases.
8. **Start Time:** Comply with NFPA 110, Level 1, Type 10, system requirements.
9. **Ambient Condition Performance:** Engine generator shall be designed to allow operation at full rated load in an ambient temperature under site conditions, based on highest ambient condition. Ambient temperature shall be as measured at the air inlet to the engine generator for enclosed units, and at the control of the engine generator for machines installed in equipment rooms.

2.3 ENGINE

- A. **Fuel:** Natural Gas
- B. **Rated Engine Speed:** 1800RPM.
- C. **Lubrication System:** The following items are mounted on engine or skid:
 1. **Lube oil pump:** shall be positive displacement, mechanical, full pressure pump.
 2. **Filter and Strainer:** Provided by the engine manufacturer of record to provide adequate filtration for the prime mover to be used.
 3. **Crankcase Drain:** Arranged for complete gravity drainage to an easily removable container with no disassembly and without use of pumps, siphons, special tools, or appliances.
- D. **Engine Fuel System:** The engine fuel system shall be installed in strict compliance to the engine manufacturer's instructions
- E. **Coolant Jacket Heater:** Electric-immersion type, factory installed in coolant jacket system. Comply with NFPA 110 requirements for Level 1 equipment for heater capacity and performance.
 1. Designed for operation on a single 120 VAC, Single phase, 60Hz power connection. Heater voltage shall be shown on the project drawings.
 2. Installed with isolation valves to isolate the heater for replacement of the element without draining the engine cooling system or significant coolant loss.

3. Provided with a 12VDC thermostat, installed at the engine thermostat housing
- F. Governor: Adjustable isochronous, with speed sensing. The governing system dynamic capabilities shall be controlled as a function of engine coolant temperature to provide fast, stable operation at varying engine operating temperature conditions. The control system shall actively control the fuel rate as appropriate to the state of the engine generator. Fuel rate shall be regulated as a function of starting, accelerating to start disconnect speed, accelerating to rated speed, and operating in various isochronous states.
- G. Cooling System: Closed loop, liquid cooled
1. The generator set manufacturer shall provide prototype test data for the specific hardware proposed demonstrating that the machine will operate at rated standby load in an outdoor ambient condition of 40 deg C.
 2. Coolant: Solution of 50 percent ethylene-glycol-based antifreeze and 50 percent water, with anticorrosion additives as recommended by engine manufacturer.
 3. Size of Radiator overflow tank: Adequate to contain expansion of total system coolant from cold start to 110 percent load condition.
 4. Expansion Tank: Constructed of welded steel plate and rated to withstand maximum closed-loop coolant system pressure for engine used. Equip with gage glass and petcock.
 5. Temperature Control: Self-contained, thermostatic-control valve modulates coolant flow automatically to maintain optimum constant coolant temperature as recommended by engine manufacturer.
 6. Duct Flange: Generator sets installed indoors shall be provided with a flexible radiator duct adapter flange.
- H. Muffler/Silencer: Selected with performance as required to meet sound requirements of the application, sized as recommended by engine manufacturer and selected with exhaust piping system to not exceed engine manufacturer's engine backpressure requirements. For generator sets with outdoor enclosures the silencer shall be inside the enclosure.
- I. Air-Intake Filter: Engine-mounted air cleaner with replaceable dry-filter element and restriction indicator.
- J. Starting System: 12 or 24V, as recommended by the engine manufacturer; electric, with negative ground.
1. Components: Sized so they will not be damaged during a full engine-cranking cycle with ambient temperature at maximum specified in Part 1 "Project Conditions" Article.
 2. Cranking Cycle: As required by NFPA 110 for level 1 systems.
 3. Battery Cable: Size as recommended by engine manufacturer for cable length as required. Include required interconnecting conductors and connection accessories.
 4. Battery Compartment: Factory fabricated of metal with acid-resistant finish.

5. Battery-Charging Alternator: Factory mounted on engine with solid-state voltage regulation. The battery charging alternator shall have sufficient capacity to recharge the batteries with all parasitic loads connected within 4 hours after a normal engine starting sequence.
6. Battery Chargers: Unit shall comply with UL 1236, provide fully regulated, constant voltage, current limited, battery charger for each battery bank. It will include the following features:
 - a. Operation: Equalizing-charging rate based on generator set manufacturer's recommendations shall be initiated automatically after battery has lost charge until an adjustable equalizing voltage is achieved at battery terminals. Unit shall then be automatically switched to a lower float-charging mode and shall continue to operate in that mode until battery is discharged again.
 - b. Automatic Temperature Compensation: Adjust float and equalize voltages for variations in ambient temperature from minus 20 deg C to plus 40 deg C to prevent overcharging at high temperatures and undercharging at low temperatures.
 - c. Automatic Voltage Regulation: Maintain constant output voltage regardless of input voltage variations up to plus or minus 10 percent.
 - d. Safety Functions: Sense abnormally low battery voltage and close contacts providing low battery voltage indication on control and monitoring panel. Sense high battery voltage and loss of ac input or dc output of battery charger. Either condition shall close contacts that provide a battery-charger malfunction indication at system control and monitoring panel.
 - e. Provide LED indication of general charger condition, including charging, faults, and modes. Provide a LCD display to indicate charge rate and battery voltage. Charger shall provide relay contacts for fault conditions as required by NFPA110.
 - f. Enclosure and Mounting: NEMA, Type 1, wall-mounted cabinet.

2.4 CONTROL AND MONITORING

- A. Engine generator control shall be microprocessor based and provide automatic starting, monitoring, protection and control functions for the unit.
- B. Automatic Starting System Sequence of Operation: When mode-selector switch on the control and monitoring panel is in the automatic position, remote-control contacts in one or more separate automatic transfer switches initiate starting and stopping of generator set. When mode-selector switch is switched to the on position, generator set starts. The off position of same switch initiates generator-set shutdown. (Switches with different configurations but equal functions are acceptable.) When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.
- C. Manual Starting System Sequence of Operation: Switching on-off switch on the generator control panel to the on position starts generator set. The off position of same switch initiates generator-set shutdown. When generator set is running, specified system or equipment failures or derangements automatically shut down generator set and initiate alarms. Operation of the local (generator set-mounted) and/or remote emergency-stop switch also shuts down generator set.
- D. Configuration: Operating and safety indications, protective devices, system controls, engine gages and associated equipment shall be grouped in a common control and monitoring panel. Mounting method

shall isolate the control panel from generator-set vibration. AC output power circuit breakers and other output power equipment shall not be mounted in the control enclosure.

- E. Indicating and Protective Devices and Controls: As required by NFPA 110 for Level 1 system, and the following:
1. AC voltmeter (3-phase, line to line and line to neutral values).
 2. AC ammeter (3-phases).
 3. AC frequency meter.
 4. AC kVA output (total and for each phase). Display shall indicate power flow direction.
 5. Ammeter-voltmeter displays shall simultaneously display conditions for all three phases.
 6. Emergency Stop Switch: Switch shall be a red "mushroom head" pushbutton device complete with lock-out/tag-out provisions. Depressing switch shall cause the generator set to immediately stop the generator set and prevent it from operating.
 7. Fault Reset Switch: Supply a dedicated control switch to reset/clear fault conditions.
 8. DC voltmeter (alternator battery charging).
 9. Engine-coolant temperature gage.
 10. Engine lubricating-oil pressure gage.
 11. Running-time meter.
 12. Generator-voltage and frequency digital raise/lower switches. Rheostats for these functions are not acceptable. The control shall adjustment of these parameters in a range of plus or minus 5% of the voltage and frequency operating set point (not nominal voltage and frequency values.)
 13. AC Protective Equipment: The control system shall include over/under voltage, over current, short circuit, loss of voltage reference, and over excitation shut down protection. There shall be an overload warning, and overcurrent warning alarm.
 14. Status LED indicating lamps to indicate remote start signal present at the control, existing alarm condition, not in auto, and generator set running.
 15. A graphical display panel with appropriate navigation devices shall be provided to view all information noted above, as well as all engine status and alarm/shutdown conditions (including those from an integrated engine emission control system). The display shall also include integrated provisions for adjustment of the gain and stability settings for the governing and voltage regulation systems.
 16. Panel lighting system to allow viewing and operation of the control when the generator room or enclosure is not lighted.
 17. DC control Power Monitoring: The control system shall continuously monitor DC power supply to the control, and annunciate low or high voltage conditions. It shall also provide an alarm indicating imminent failure of the battery bank based on degraded voltage recover on loading (engine cranking).

- F. Control Heater: Generator sets that are installed in outdoor enclosures, or are in tropical or coastal environments shall be provided with control heaters for anti-condensation protection.
- G. Common Remote Audible Alarm: Comply with NFPA 110 requirements for Level 1 systems. Include necessary contacts and terminals in control and monitoring panel.
 - 1. Overcrank shutdown.
 - 2. Coolant low-temperature alarm.
 - 3. Control switch not in auto position.
 - 4. Battery-charger malfunction alarm.
 - 5. Battery low-voltage alarm.
- H. Remote Alarm Annunciator: Comply with NFPA 110. An LED labeled with proper alarm conditions shall identify each alarm event and a common audible signal shall sound for each alarm condition.
- I. Remote Emergency-Stop Switch: Flush; wall mounted, unless otherwise indicated; and labeled. Push button shall be protected from accidental operation.

2.5 GENERATOR OVERCURRENT AND FAULT PROTECTION

- A. Ground-Fault Indication: Comply with NFPA 70, "Emergency System" signals for ground-fault. Integrate ground-fault alarm indication with other generator-set alarm indications.

2.6 GENERATOR, EXCITER, AND VOLTAGE REGULATOR

- A. Comply with NEMA MG 1.
- B. Drive: Generator shaft shall be directly connected to engine shaft. Exciter shall be rotated integrally with generator rotor.
- C. Electrical Insulation: Class H
- D. Temperature Rise: 105 / Class F environment.
- E. Construction shall prevent mechanical, electrical, and thermal damage due to vibration, over speed up to 125 percent of rating, and heat during operation at 110 percent of rated capacity.
- F. Permanent Magnet Generator (PMG) shall provide excitation power for optimum motor starting and short circuit performance.
- G. Enclosure: Drip-proof.
- H. Voltage Regulator: SCR type, Separate from exciter, providing performance as specified. The voltage regulation system shall be microprocessor-controlled, full wave rectified, and provide a pulse-width modulated signal to the exciter. No exceptions or deviations to these requirements will be permitted.
- I. The alternator shall be provided with anti-condensation heater(s) in all applications where the generator set is provided in an outdoor enclosure, or when the generator set is installed in a coastal or tropical environment.
- J. Windings: Two-thirds pitch stator winding and fully linked amortisseur winding.

- K. Subtransient Reactance: 15 percent maximum, based on the rating of the engine generator set.

2.7 OUTDOOR GENERATOR-SET ENCLOSURE

- A. Description: Sound Attenuated Aluminum housing. Multiple panels shall be lockable and provide adequate access to components requiring maintenance. Instruments, control, and battery system shall be mounted within enclosure.
- B. Construction:
 - 1. Hinged Doors: With padlocking provisions. Restraint/Hold back hardware to prevent door to keep door open at 180 degrees during maintenance. Rain lips over all doors.
 - 2. Exhaust System:
 - a. Muffler Location: Within enclosure.
 - 3. Hardware: All hardware and hinges shall be stainless steel.
 - 4. Wind Rating: Wind rating shall be 150 mph
 - 5. Mounting Base: Suitable for mounting on sub-base fuel tank or housekeeping pad.
 - 6. A weather protective enclosure shall be provided which allows the generator set to operate at full rated load with a static pressure drop equal to or less than 0.5 inches of water.
- C. Engine Cooling Airflow through Enclosure: Housing shall provide ample airflow for engine generator operation at rated load in an ambient temperature of 40 deg C.
- D. Sound Performance: Reduce the sound level of the engine generator while operating at full rated load to a maximum of 72 dBA measured at any location 7 m from the engine generator in a free field environment.
- E. Site Provisions:
 - 1. Lifting: Complete assembly of engine generator, enclosure shall be designed to be lifted into place as a single unit, using spreader bars.

2.8 VIBRATION ISOLATION DEVICES

- A. Vibration Isolation: Generators installed on grade shall be provided with elastomeric isolator pads integral to the generator, unless the engine manufacturer requires use of spring isolation.
 - 1. IBC Compliance: Isolators complying with IBC requirements shall be specified in the equipment documentation, as well as the installation requirements for the unit.

2.9 FINISHES

- A. Indoor and Outdoor Enclosures and Components: Powder-coated and baked over corrosion-resistant pretreatment and compatible primer. Manufacturer's standard color or as directed on the drawings.

2.10 SOURCE QUALITY CONTROL

- A. Prototype Testing: Factory test engine-generator set using same engine model, constructed of identical or equivalent components and equipped with identical or equivalent accessories.

1. Tests: Comply with NFPA 110, Level 1 Energy Converters. In addition, the equipment engine, skid, cooling system, and alternator shall have been subjected to actual prototype tests to validate the capability of the design under the abnormal conditions noted in NFPA110. Calculations and testing on similar equipment which are allowed under NFPA110 are not sufficient to meet this requirement.
- B. Project-Specific Equipment Tests: Before shipment, factory test engine-generator set manufactured specifically for this Project. Perform tests at rated load and power factor. Include the following tests:
 1. Test engine generator set manufactured for this Project to demonstrate compatibility and functionality.
 2. Full load run.
 3. Maximum power.
 4. Voltage regulation.
 5. Steady-state governing.
 6. Single-step load pickup.
 7. Provide 14 days' advance notice of tests and opportunity for observation of tests by Owner's representative.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Comply with packaged engine-generator manufacturers' written installation, application, and alignment instructions and with NFPA 110.
- B. Equipment shall be installed by the contractor in accordance with final submittals and contract documents. Installation shall comply with applicable state and local codes as required by the authority having jurisdiction. Install equipment in accordance with manufacturer's instructions and instructions included in the listing or labeling of UL listed products.
- C. Installation of equipment shall include furnishing and installing all interconnecting wiring between all major equipment provided for the on-site power system. The contractor shall also perform interconnecting wiring between equipment sections (when required), under the supervision of the equipment supplier.
- D. Equipment shall be installed on concrete housekeeping pads. Equipment shall be permanently fastened to the pad in accordance with manufacturer's instructions and seismic requirements of the site.
- E. Equipment shall be initially started and operated by representatives of the manufacturer. All protective settings shall be adjusted as instructed by the consulting engineer.
- F. All equipment shall be physically inspected for damage. Scratches and other installation damage shall be repaired prior to final system testing. Equipment shall be thoroughly cleaned to remove all dirt and construction debris prior to initial operation and final testing of the system.
- G. On completion of the installation by the electrical contractor, the generator set supplier shall conduct a site evaluation to verify that the equipment is installed per manufacturer's recommended practice.

3.2 ON-SITE ACCEPTANCE TEST

- A. The complete installation shall be tested to verify compliance with the performance requirements of this specification following completion of all site work. Testing shall be conducted by representatives of the manufacturer, with required fuel supplied by Contractor. The Engineer shall be notified in advance and shall have the option to witness the tests. The generator set manufacturer shall provide a site test specification covering the entire system. Tests shall include:
- B. Prior to start of active testing, all field connections for wiring, power conductors, and bus bar connections shall be checked for proper tightening torque.
- C. Installation acceptance tests to be conducted on site shall include a "cold start" test, a two hour full load (resistive) test, and a one-step rated load pickup test in accordance with NFPA 110. Provide a resistive load bank and make temporary connections for full load test, if necessary.
- D. Perform a power failure test on the entire installed system. This test shall be conducted by opening the power supply from the utility service, and observing proper operation of the system for at least 2 hours. Coordinate timing and obtain approval for start of test with site personnel.

3.3 TRAINING

- A. The equipment supplier shall provide training for the facility operating personnel covering operation and maintenance of the equipment provided. The training program shall be not less than 4 hours in duration and the class size shall be limited to 5 persons. Training date shall be coordinated with the facility owner.

3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

3.5 SERVICE AND SUPPORT

- A. The generator set supplier shall maintain service parts inventory for the entire power system at a central location which is accessible to the service location 24 hours per day, 365 days per year. The inventory shall have a commercial value of \$3 million or more. The manufacturer of the generator set shall maintain a central parts inventory to support the supplier, covering all the major components of the power system, including engines, alternators, control systems, paralleling electronics, and power transfer equipment.
- B. The generator set shall be serviced by a local service organization that is trained and factory certified in generator set service. The supplier shall maintain an inventory of critical power system replacement parts in the local service location. Service vehicles shall be stocked with critical replacement parts. The service organization shall be on call 24 hours per day, 365 days per year. The service organization shall be physically located within Jackson of the site.
- C. The manufacturer shall maintain model and serial number records of each generator set provided for at least 20 years.

3.6 SERVICE AGREEMENT:

- A. The supplier shall include in the base price, a one-year service agreement by generator manufacturer representative. The maintenance shall be performed by factory authorized service technicians capable of servicing both the engine generator set and the transfer switch (es). This agreement shall include the following:

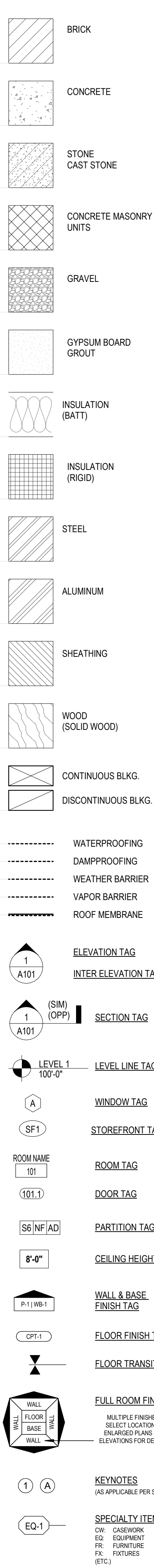
1. All engine maintenance as recommended by the service manual.
2. All electrical controls maintenance and calibrations as recommended by the manufacturer.
3. All auxiliary equipment as a part of the emergency systems.
4. The supplier shall guarantee emergency service.
5. All expendable maintenance items are to be included in this agreement.
6. A copy of this agreement and a schedule shall be given to the Owner at the time of his acceptance, showing what work is to be accomplished and when.

END OF SECTION

ABBREVIATIONS

A.C.M. ACoustical
 A.C.T. ACoustical CEILING TILE (see also L.A.T.)
 A.F.F. ABOVE FINISHED FLOOR
 A.H.U. AIR HANDLING UNIT (see also R.T.U.)
 AL. ALUMINUM
 ALUM. ALUMINUM
 APPR. APPROXIMATE
 ASBY. ASSEMBLY
 B. BOTTOM OF BUILDING
 BLKG. BLOCKING
 C.F.M.F. COLD FORMED METAL FRAMING
 CFB. CEMENTITIOUS FIBER BOARD
 C.I. CONTINUOUS INSULATION
 C.J. CENTERLINE JOINT
 C.L. CENTERLINE
 CLG. CEILING
 CLR. CLEAR
 COL. COLUMN
 CON. CONCRETE
 CONSTR. CONSTRUCTION
 CONT. CONTINUOUS
 COORD. COORDINATE
 DEMO. DEMOLITION
 DET. DETAIL
 DM. DIAMETER
 DIM. DIMENSION
 DISP. DISPENSER
 DN. DOWN
 D.P. DAMPROOFING
 D.P.F. DAMPROOFING DRAWINGS
 DWGS. DRAWINGS
 EA. EACH
 E.I.F.S. EXTERIOR INSULATION & FINISH SYSTEM
 E.J. EXPANSION JOINT
 ELEC. ELECTRICAL
 ELEV. ELEVATION
 ENCL. ENCLOSURE
 EQ. EQUIPMENT
 ENC. ELECTRIC WATER COOLER
 EXH. EXHAUST
 EXIST. EXISTING
 EXTER. EXTERIOR
 F.F. FACE OF FIRE ALARM CONTROL PANEL
 F.F.C.P. FLOOR FINISH
 F.F.E. FIRE EXTINGUISHER (CABINET)
 F.F.F. FINISH FLOOR ELEVATION
 FIN. FINISH
 FUR. FLOOR FURNISHING
 FURR. FURNISHING
 GA. GAUGE
 GALV. GALVANIZED
 GEN. GENERAL CONTRACTOR
 GLAZ. GLAZING / GLASS
 GYP. GYPSUM BOARD
 HW. HARDWARE
 HT. HEIGHT
 H.M. HOLLOW METAL
 HORIZ. HORIZONTAL
 HR. HOUR
 INSUL. INSULATION
 INTER. INTERIOR
 JAN. JANITOR
 JT. JOINT
 L.A.T. LAY IN ACOUSTICAL TILE
 LAY. LEAD BASED PAINT
 L.B.P. LEAD BASED PAINT
 MAS. MASONRY
 MAX. MAXIMUM
 MECH. MECHANICAL
 MANUF. MANUFACTURER
 MIN. MINIMUM
 MISC. MISCELLANEOUS
 M.O. MASONRY OPENING
 MTD. MOUNTED
 MTL. METAL
 NA. NOT APPLICABLE
 N.C. NOT IN CONTACT
 N.T.S. NOT TO SCALE
 NOM. NOMINAL
 O.C. ON CENTER
 O.D. OUTSIDE DIAMETER
 OPG. OPENING
 OPP. OPPOSITE
 ORIG. ORIGINAL
 PLAST. PLASTER
 PREFAB. PRE-FABRICATED
 PREFIN. PRE-FINISHED
 PTD. PAINTED
 PART. PARTITION
 PLYWD. PLYWOOD
 RB. RUBBER BASE
 R.C. RESILIENT CHANNEL
 R.D. ROOF DRAIN
 REF. REFERENCE
 RENF. REQUIRED
 RESL. RESILIENT
 ROOM. ROOM
 R.O. ROUGH OPENING
 R.T.U. ROOF TOP UNIT
 SCHED. SCHEDULE
 SECT. SECTION
 SHWR. SHOWER
 SIM. SIMILAR
 SPEC. SPECIFICATION / SPECIFIED
 SQ. SQUARE
 SQ.FT. SQUARE FEET
 S.S.T. STAINLESS STEEL
 S.T.C. SOUND TRANSMISSION COEFFICIENT
 STD. STANDARD
 STR. STRUCTURAL
 SUSP. SUSPENDED
 SYM. SYMMETRICAL
 SYS. SYSTEM
 T. TOP OF
 TEMP. TEMPORARY
 T&G. TONGUE & GROOVE
 THK. THICKNESS
 TYP. TYPICAL
 U.O.N. UNLESS OTHERWISE NOTED
 VERT. VERTICAL
 V.F. VERY IN FIELD
 W. WITH
 W.C. WATER CLOSET
 WD. WOOD
 WDW. WINDOW
 W/O. WITHOUT
 W.B. WEATHER BARRIER
 W.P. WATERPROOFING

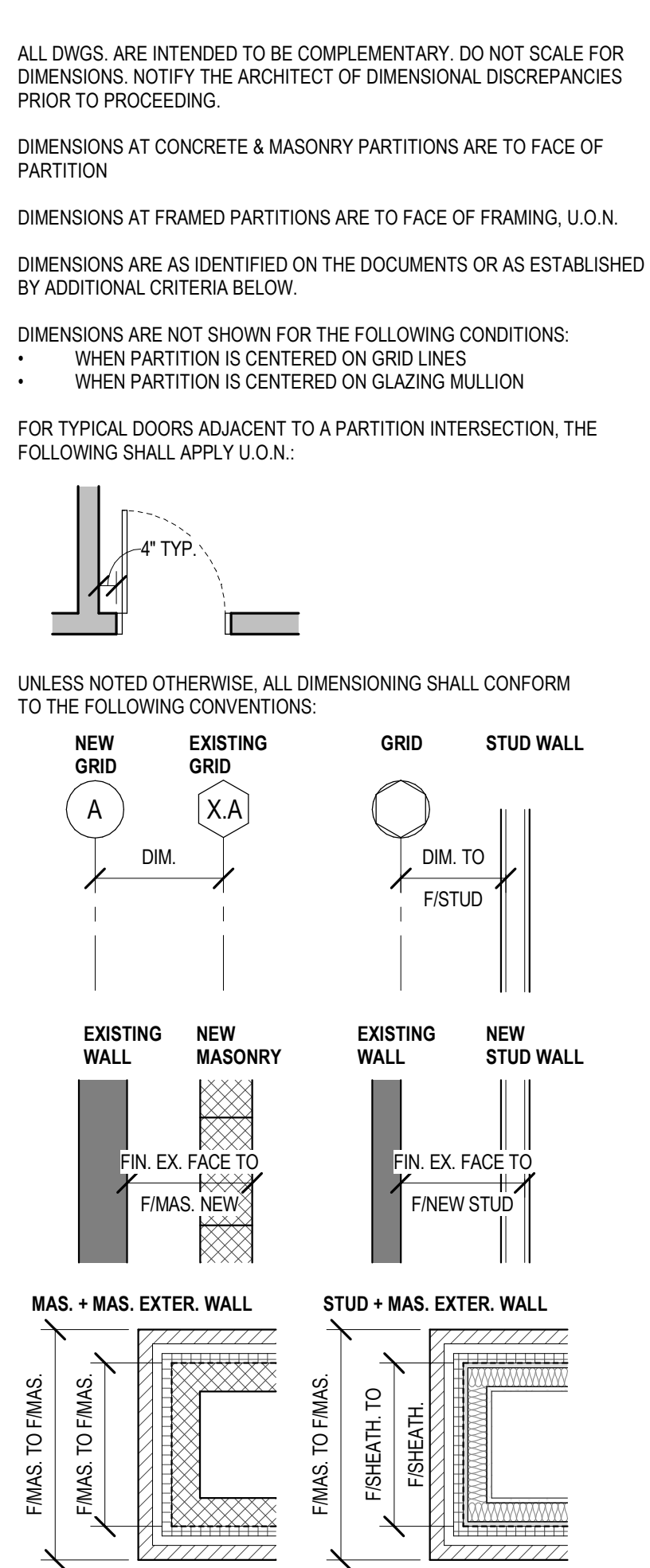
SYMBOLS



GENERAL NOTES

- NOTES APPEAR ON VARIOUS DRAWINGS FOR VARIOUS DISCIPLINES FOR DIFFERENT SYSTEMS AND MATERIALS. REVIEW ALL SHEETS AND APPLY NOTES TO RELATED BUILDING COMPONENTS.
- REFER TO COMPLETE SET OF ISSUED CONTRACT DOCUMENTS FOR OTHER APPLICABLE NOTES, ABBREVIATIONS, AND SYMBOLS.
- WHERE MATERIALS ARE APPLIED TO, OR ARE IN DIRECT CONTACT WITH WORK INSTALLED BY ANOTHER SUBCONTRACTOR, COMMENCEMENT OF WORK IMPLIES ACCEPTANCE OF THE SUBSTRATE AS SUITABLE FOR THE APPLICATION INTENDED.
- ISOLATE DISSIMILAR METALS TO PREVENT GALVANIC CORROSION.
- PARTITION TYPES AND FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH AND HEIGHT OF A PARTITION.
- OPENINGS IN RATED WALL, FLOOR, CEILING AND ROOF ASSEMBLIES SHALL BE SEALED WITH PENETRATION SEALANT SYSTEMS MEETING OR EXCEEDING THE REQUIRED FIRE RESISTIVE RATINGS.
- MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, AND BOXES RECESSED IN FIRE RATED WALL, FLOOR, AND CEILING ASSEMBLIES.
- PROVIDE CONTINUOUS PERIMETER FIRE SAFING BETWEEN FLOORS AND COORDINATE THE INSTALLATION WITH THE EXTERIOR WALL. FIRE RATING OF SAFING SHALL MATCH FIRE RATING OF FLOOR CONSTRUCTION.
- DO NOT SCALE THE DRAWINGS.
- FIELD MEASURE AND CONFIRM DIMENSIONS FOR OWNER PROVIDED EQUIPMENT AND FURNISHINGS.
- PROVIDE STIFFENERS, BRACING, BACKING PLATES AND BLOCKING REQUIRED FOR SECURE INSTALLATION OF TOILET PARTITIONS, DOORS AND DOOR HARDWARE INCLUDING WALL-MOUNTED DOOR STOPS, HANDRAILS, WALL-MOUNTED SHELVES, OPERABLE PARTITIONS, MISCELLANEOUS EQUIPMENT, AND SUSPENDED MECHANICAL AND ELECTRICAL EQUIPMENT.
- COORDINATE ALL BASE AND HOUSEKEEPING PADS WITH MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT.
- LOCATE ACCESS PANELS AS INDICATED ON DRAWINGS. FOR ACCESS PANELS NOT SHOWN BUT REQUIRED BY PROVISIONS OF THE CONTRACT DOCUMENTS, LOCATED IN ACCORDANCE WITH APPLICABLE CODES. SUBMIT PROPOSED LOCATIONS TO THE ARCHITECT FOR REVIEW AND ACCEPTANCE PRIOR TO INSTALLATION.
- COORDINATE WITH CIVIL FOR ALL FINISH GRADES.
- COORDINATE ALL SLAB PENETRATIONS WITH TRADES.
- FRAMING TO BE SIGN SEALED BY A LICENSED ENGINEER.

DIMENSIONING CRITERIA



PROJECT DESCRIPTION

THE PROJECT CONSISTS OF A 1-STORY 17,000 SF OFFICE BUILDING WITH A MIXED USE OCCUPANCY OF ASSEMBLY (A-3) AND BUSINESS (B). THE BUILDING INCLUDES A LARGE BOARD ROOM, OFFICE AND ADMINISTRATIVE FUNCTIONS, AND A STORM SHELTER. THE BUILDING WILL BE SPRINKLERED.

PROJECT TEAM

OWNER
 PEARL RIVER VALLEY WATER SUPPLY DISTRICT
 115 MADISON LANDING CIRCLE
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CIVIL
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DRAWING INDEX

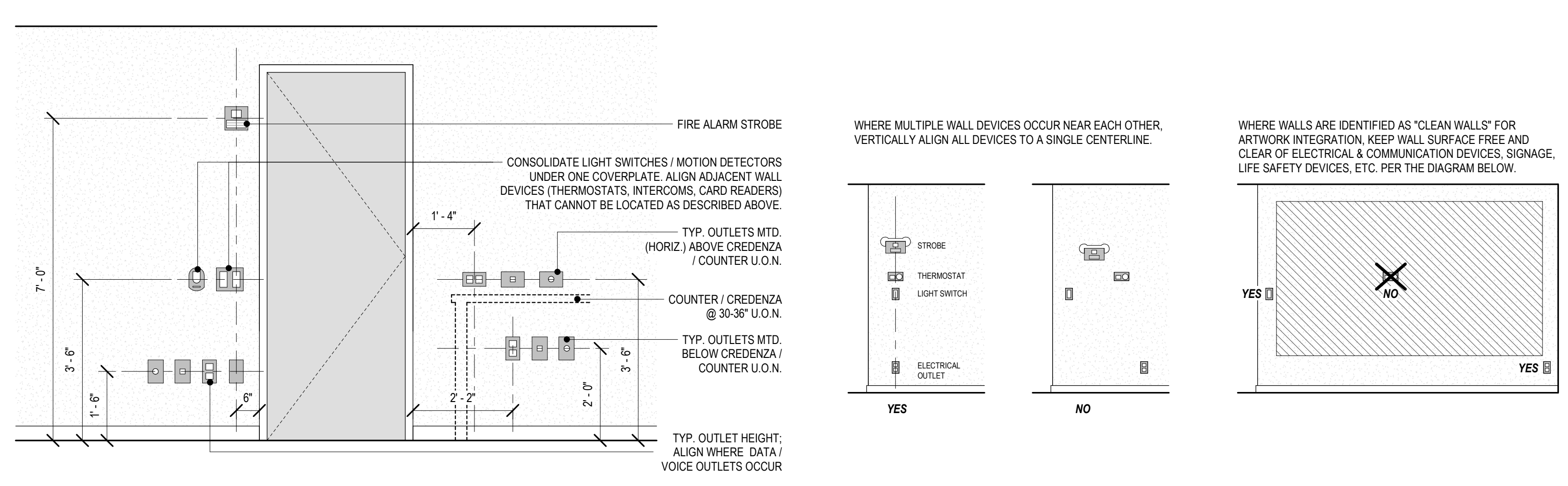
INDEX OF DRAWINGS				INDEX OF DRAWINGS			
SHEET NUMBER	SHEET NAME	ISSUE DATE	REV. DATE	SHEET NUMBER	SHEET NAME	ISSUE DATE	REV. DATE
01 - REFERENCE				07 - MECHANICAL			
R000	COVER SHEET	06/21/24		M001	HVAC LEGENDS, ABBREVIATIONS, AND NOTES	06/21/24	
R100	PROJECT INFO	06/21/24	08/09/24	M2101	HVAC ZONING PLAN	06/21/24	
R200	LIFE SAFETY COMPLIANCE	06/21/24	08/09/24	M101	OVERALL HVAC FLOOR PLAN	06/21/24	
R210	ACCESSIBILITY COMPLIANCE	06/21/24		M102	OVERALL HVAC ATTIC PLAN	06/21/24	
02 - CIVIL				08 - FIRE PROTECTION			
C1.0	GENERAL NOTES	06/21/24		FP001	ABBREVIATIONS, LEGENDS, GENERAL NOTES, & CODE REVIEW	06/21/24	
C2.0	EXISTING CONDITIONS & DEMOLITION PLAN	06/21/24	08/09/24	FP101	FLOOR PLAN - FIRE PROTECTION	06/21/24	
C3.0	SITE & UTILITY PLAN	06/21/24	08/09/24	FP201	FIRE PROTECTION DETAILS AND SCHEDULES	06/21/24	
C4.0	GRADING & DRAINAGE PLAN	06/21/24		09 - PLUMBING			
C4.1	SPOT ELEVATION PLAN	06/21/24		P001	ABBREVIATIONS, LEGENDS, GENERAL NOTES, & CODE REVIEW	06/21/24	
C5.0	EROSION CONTROL PLAN	06/21/24		P101	FLOOR PLAN - PLUMBING SANITARY	06/21/24	
C6.0	CONSTRUCTION DETAILS - SITE	06/21/24		P102	FLOOR PLAN - PLUMBING SUPPLY	06/21/24	
C6.1	CONSTRUCTION DETAILS - SANITARY SEWER	06/21/24		P103	ATTIC FLOOR PLAN - PLUMBING SANITARY	06/21/24	
C6.2	CONSTRUCTION DETAILS - WATER	06/21/24		P104	ATTIC FLOOR PLAN - PLUMBING GAS SUPPLY	06/21/24	
C6.3	CONSTRUCTION DETAILS - STORM SEWER	06/21/24		P201	PLUMBING DETAILS	06/21/24	
C6.4	CONSTRUCTION DETAILS - ADS HP STORM SEWER	06/21/24		P301	PLUMBING SCHEDULES	06/21/24	
C6.5	CONSTRUCTION DETAILS - NYLOPLAST DRAIN BASIN	06/21/24		10 - ELECTRICAL			
C6.6	CONSTRUCTION DETAILS - INSERTA TEE DETAIL	06/21/24		E000	ELECTRICAL LEGEND, SCHEDULE, AND NOTES	06/21/24	
C6.7	CONSTRUCTION DETAILS - MDOOT SS-2	06/21/24		E001	SITE PLAN	06/21/24	
C6.8	CONSTRUCTION DETAILS - MDOOT SS-3	06/21/24		E002	ELECTRICAL PANEL SCHEDULES	06/21/24	
C6.9	EROSION CONTROL DETAILS	06/21/24		E100	LIGHTING PLAN	06/21/24	
05 - ARCHITECTURE				11 - ELECTRICAL			
A101	FLOOR PLAN	06/21/24	08/09/24	E201	POWER PLAN	06/21/24	08/09/24
A102	ENLARGED FLOOR PLANS	06/21/24		E201	POWER PLAN - MECH. PLATFORM	06/21/24	
A103	REFLECTED CEILING PLAN	06/21/24	08/09/24	E300	MECHANICAL / AUXILIARY PLAN	06/21/24	
A104	ROOF PLAN	06/21/24		E301	MECHANICAL PLAN - MECH. PLATFORM	06/21/24	
A201	EXTERIOR ELEVATIONS	06/21/24	08/09/24				
A202	EXTERIOR ELEVATIONS	06/21/24	08/09/24				
A203	BUILDING SECTIONS	06/21/24					
A204	BUILDING SECTIONS	06/21/24					
A301	WALL SECTIONS	06/21/24	08/09/24				
A302	WALL SECTIONS	06/21/24	08/09/24				
A303	WALL SECTIONS	06/21/24	08/09/24				
A304	WALL SECTIONS	06/21/24	08/09/24				
A305	VERTICAL CIRCULATION	06/21/24					
A401	EXTERIOR DETAILS	06/21/24					
A402	INTERIOR DETAILS	06/21/24					
A501	DOOR OPENINGS & ENTRANCES	06/21/24	08/09/24				
A502	STOREFRONTS	06/21/24					
A601	FINISH LEGEND & SCHEDULE	06/21/24					
A602	FINISH PLAN	06/21/24	08/09/24				
A701	INTERIOR ELEVATIONS	06/21/24					
A702	INTERIOR ELEVATIONS	06/21/24					
A703	INTERIOR ELEVATIONS	06/21/24					
A704	INTERIOR ELEVATIONS	06/21/24					
A705	INTERIOR ELEVATIONS	06/21/24					
A801	TYPICAL CASEWORK DETAILS	06/21/24					
A802	CUSTOM CASEWORK DETAILS	06/21/24					
A803	CUSTOM CASEWORK DETAILS	06/21/24					
A901	SIGNAGE, FF&E, MISC	06/21/24					
06 - STRUCTURAL				12 - ELECTRICAL			
S100	STRUCTURAL NOTES	06/21/24		E400	POWER PLAN - MECH. PLATFORM	06/21/24	
S101	STRUCTURAL QUALITY ASSURANCE	06/21/24		E401	POWER PLAN - MECH. PLATFORM	06/21/24	
S200	FOUNDATION PLAN	06/21/24	08/09/24	E402	POWER PLAN - MECH. PLATFORM	06/21/24	
S201	ROOF FRAMING PLAN	06/21/24	08/09/24	E403	POWER PLAN - MECH. PLATFORM	06/21/24	
S302	SHEAR WALL PLAN AND DETAILS	06/21/24		E404	POWER PLAN - MECH. PLATFORM	06/21/24	
S300	DETAILS	06/21/24	08/09/24	E405	POWER PLAN - MECH. PLATFORM	06/21/24	
S301	DETAILS	06/21/24		E406	POWER PLAN - MECH. PLATFORM	06/21/24	
S302	DETAILS	06/21/24		E407	POWER PLAN - MECH. PLATFORM	06/21/24	
S303	DETAILS	06/21/24		E408	POWER PLAN - MECH. PLATFORM	06/21/24	
S304	DETAILS	06/21/24		E409	POWER PLAN - MECH. PLATFORM	06/21/24	

PARTITION LEGEND

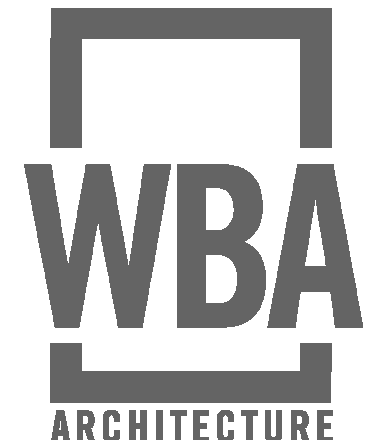
PARTITION STRUCTURE	PARTITION ASSEMBLY		FIRE RATED CRITERIA			ADDITIONAL PERFORMANCE CRITERIA				
	CORE MAT.	NOM. WIDTH	N = NO FIRE RATING	S = SMOKE PARTITION	.5 = 30 MIN RATED	1 = 1 HR RATED	2 = 2 HR RATED	F = FURRED OUT	L = ACOUSTICAL LOW	H = ACOUSTICAL HIGH
C = CAST IN PLACE CONCRETE (COORD. w/STRUCT.)	6" = 6" C.I.P.							ADD 5/8" GYP. BD. 1 SIDE ON 7/8" MTL. FURRING	N/A	
	8" = 8" C.I.P.							ADD 5/8" GYP. BD. 1 SIDE ON 7/8" MTL. FURRING	N/A	
M = CONCRETE MASONRY UNITS (COORD. w/STRUCT.)	4" = 4" CMU							FULLY GROUT CELLS	N/A	N/A
	6" = 6" CMU								STC 51	
S = STEEL STUD FRAMING	1 = 1 1/2" STUD		5/8" GYP. BD. ONE SIDE	N/A	N/A	N/A	N/A		N/A	N/A
	2 = 2 1/2" STUD		5/8" GYP. BD. ONE SIDE	N/A	N/A	N/A	N/A		STC 45-48	
	4 = 3 5/8" STUD		5/8" GYP. BD. EA. SIDE U.O.N.	5/8" FIRECODE 30 GYP. BD. EA. SIDE UL U407	5/8" TYPE-X GYP. BD. EA. SIDE UL U419	(2x) 5/8" TYPE-X GYP. BD. EA. SIDE UL U419			STC 49-52	STC 50-56
W = WOOD STUD FRAMING	0 = 1/2" FURRING		5/8" GYP. BD. ONE SIDE	N/A	N/A	N/A	N/A		STC 51-54	STC 54-59
	4 = 3 1/2" STUD		5/8" GYP. BD. EA. SIDE U.O.N.	5/8" FIRECODE 30 GYP. BD. EA. SIDE UL U407	5/8" TYPE-X GYP. BD. EA. SIDE UL U305	(2x) 5/8" TYPE-X GYP. BD. EA. SIDE UL U301			STC 39-52	STC 56-61
	6 = 5 1/2" STUD		5/8" GYP. BD. EA. SIDE U.O.N.	5/8" FIRECODE 30 GYP. BD. EA. SIDE UL U407	5/8" TYPE-X GYP. BD. EA. SIDE UL U305	(2x) 5/8" TYPE-X GYP. BD. EA. SIDE UL U301			STC 39-52	
X = SHAFTWALL CONSTRUCTION	2 = 2 1/2" C-H STUD		N/A	N/A	N/A	5/8" GYP. BD. + 1" GYP. + SHAFT LINER PANEL UL U415-A	2 LAYERS 5/8" GYP. BD. + 1" GYP. + SHAFT LINER PANEL UL U415-B		STC 45-48	- 1/2" RC. ON STUD OPP. SIDE
	4 = 4" C-H STUD		N/A	N/A	N/A	5/8" GYP. BD. + 1" GYP. + SHAFT LINER PANEL UL U415-A	2 LAYERS 5/8" GYP. BD. + 1" GYP. + SHAFT LINER PANEL UL U415-B		STC 47-50	- ACOUST. BATT
	6 = 6" C-H STUD		N/A	N/A	N/A	5/8" GYP. BD. + 1" GYP. + SHAFT LINER PANEL UL U415-A	2 LAYERS 5/8" GYP. BD. + 1" GYP. + SHAFT LINER PANEL UL U415-B		STC 49-52	

SEAL SEAMS, PENETRATIONS, & TRANSITIONS PER IBC & UL ASSEMBLY.

DEVICE LOCATION CRITERIA



VICINITY MAP



PEARL RIVER VALLEY WATER SUPPLY DISTRICT MAIN OFFICE

6018 Lakeshore Park
 Brandon, MS 39047



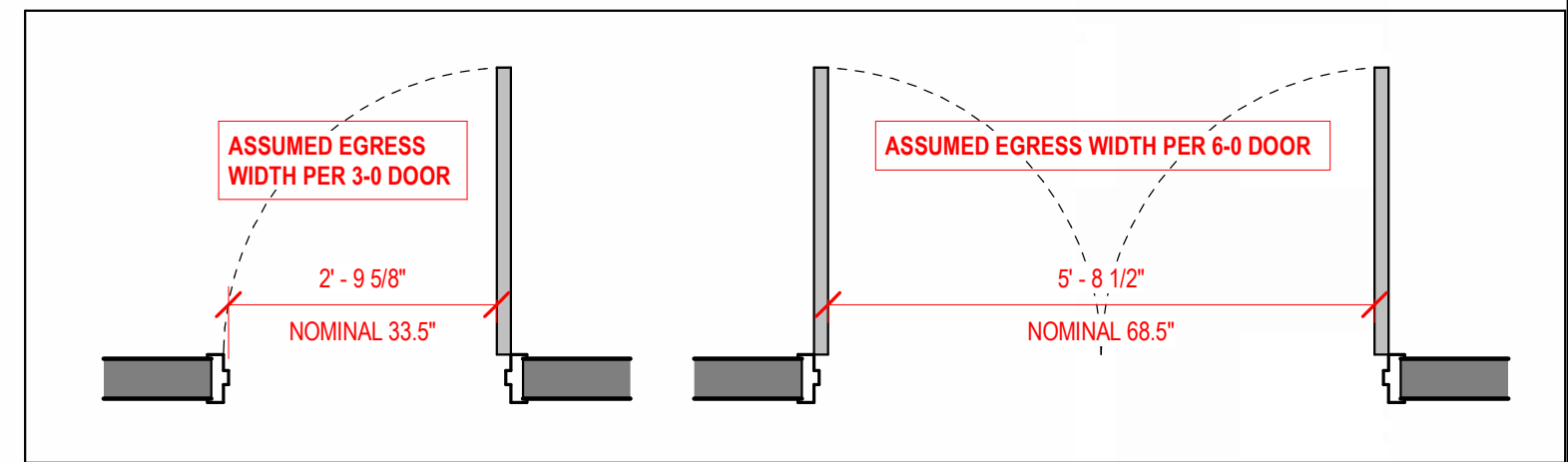
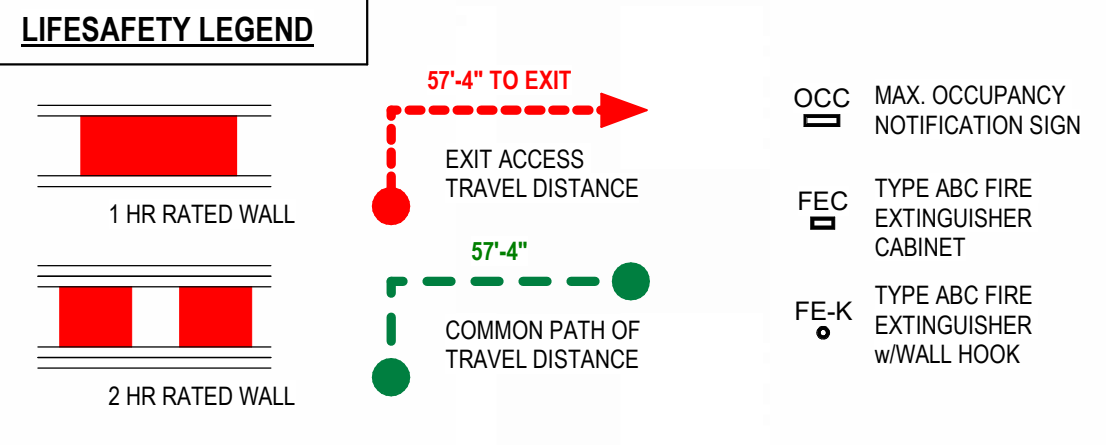
06.21.24

CONSTRUCTION DOCUMENTS
 WBA # 23-072

NO.	DESCRIPTION	DATE
1	Addendum 01	08/09/24

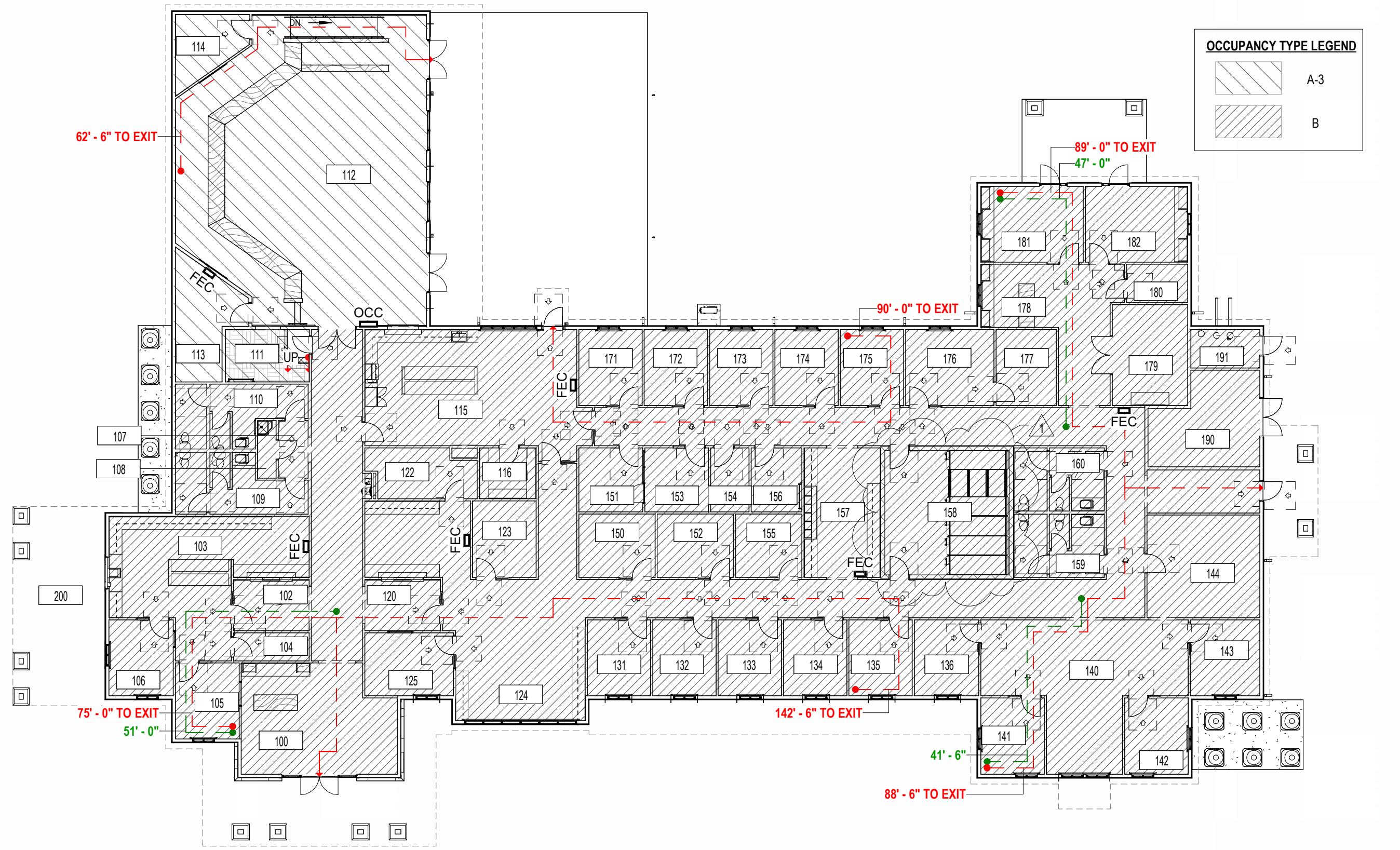
R100
 PROJECT INFO

LIFE SAFETY PLANS



OCCUPANCY LOAD SCHEDULE					
Number	Name	Occupancy Type	Area	Occupant Load Factor	Occupant Load
100	LOBBY	BUSINESS	414 SF	150 GROSS	3
101	CORRIDOR	BUSINESS	435 SF	150 GROSS	3
102	VESTIBULE	BUSINESS	99 SF	150 GROSS	1
103	WORK AREA	BUSINESS	494 SF	150 GROSS	4
104	STORAGE	ACCESSORY	54 SF	300 GROSS	1
105	OFFICE	BUSINESS	124 SF	150 GROSS	1
106	OFFICE	BUSINESS	125 SF	150 GROSS	1
107	VESTIBULE	BUSINESS	44 SF	150 GROSS	1
108	JAN	ACCESSORY	27 SF	300 GROSS	1
109	GUEST WOMENS RESTROOM	BUSINESS	96 SF	150 GROSS	1
110	GUEST MENS RESTROOM	BUSINESS	100 SF	150 GROSS	1
111	TECH	ACCESSORY	112 SF	300 GROSS	1
112	BOARD ROOM	ASSEMBLY	1801 SF	15 NET	121
113	STORAGE	ACCESSORY	171 SF	300 GROSS	1
114	STORAGE	ACCESSORY	106 SF	300 GROSS	1
115	CATERING KITCHEN / BREAK ROOM	BUSINESS	639 SF	150 GROSS	5
116	PANTRY	ACCESSORY	74 SF	300 GROSS	1
120	VESTIBULE	BUSINESS	99 SF	150 GROSS	1
121	RECEPTIONIST	BUSINESS	208 SF	150 GROSS	2
122	STORAGE	ACCESSORY	128 SF	300 GROSS	1
123	OFFICE	BUSINESS	125 SF	150 GROSS	1
124	COLLABORATION SPACE	BUSINESS	491 SF	150 GROSS	4
125	OFFICE	BUSINESS	143 SF	150 GROSS	1
126	CORRIDOR	BUSINESS	112 SF	150 GROSS	1
130	CORRIDOR	BUSINESS	548 SF	150 GROSS	4
131	OFFICE	BUSINESS	123 SF	150 GROSS	1
132	OFFICE	BUSINESS	123 SF	150 GROSS	1
133	OFFICE	BUSINESS	123 SF	150 GROSS	1
134	OFFICE	BUSINESS	123 SF	150 GROSS	1
135	OFFICE	BUSINESS	123 SF	150 GROSS	1
136	OFFICE	BUSINESS	125 SF	150 GROSS	1

OCCUPANCY LOAD SCHEDULE					
Number	Name	Occupancy Type	Area	Occupant Load Factor	Occupant Load
140	COLLABORATION SPACE	BUSINESS	557 SF	150 GROSS	4
141	OFFICE	BUSINESS	124 SF	150 GROSS	1
142	OFFICE	BUSINESS	124 SF	150 GROSS	1
143	OFFICE	BUSINESS	135 SF	150 GROSS	1
144	FILE STORAGE	ACCESSORY	297 SF	300 GROSS	1
145	CORRIDOR	BUSINESS	131 SF	150 GROSS	1
150	OFFICE	BUSINESS	123 SF	150 GROSS	1
151	IT / SERVER / STORAGE	ACCESSORY	104 SF	300 GROSS	1
152	OFFICE	BUSINESS	123 SF	150 GROSS	1
153	OFFICE	BUSINESS	104 SF	150 GROSS	1
154	ELEC	ACCESSORY	62 SF	300 GROSS	1
155	LEGAL STORAGE	ACCESSORY	107 SF	300 GROSS	1
156	MECH	ACCESSORY	83 SF	300 GROSS	1
157	WORK ROOM / MAIL	BUSINESS	253 SF	150 GROSS	2
158	VAULT	ACCESSORY	400 SF	300 GROSS	2
159	STAFF RESTROOM	BUSINESS	65 SF	150 GROSS	1
160	STAFF RESTROOM	BUSINESS	66 SF	150 GROSS	1
170	CORRIDOR	BUSINESS	539 SF	150 GROSS	4
171	OFFICE	BUSINESS	123 SF	150 GROSS	1
172	OFFICE	BUSINESS	123 SF	150 GROSS	1
173	OFFICE	BUSINESS	123 SF	150 GROSS	1
174	OFFICE	BUSINESS	123 SF	150 GROSS	1
175	OFFICE	BUSINESS	123 SF	150 GROSS	1
176	OFFICE	BUSINESS	171 SF	150 GROSS	2
177	HR STORAGE	ACCESSORY	117 SF	300 GROSS	1
178	ADMIN SECRETARY	BUSINESS	223 SF	150 GROSS	2
179	CONF. ROOM	BUSINESS	195 SF	150 GROSS	2
180	STORAGE	BUSINESS	60 SF	150 GROSS	1
181	EXEC. OFFICE	BUSINESS	198 SF	150 GROSS	2
182	EXEC. OFFICE	BUSINESS	198 SF	150 GROSS	2
190	EXT. STORAGE	BUSINESS	235 SF	150 GROSS	2
191	FIRE	BUSINESS	67 SF	150 GROSS	1
200	DRIVE THRU	BUSINESS	417 SF	150 GROSS	3



MEANS OF EGRESS

OCCUPANT LOAD		EGRESS SIZING								
SEE LIFE SAFETY PLANS FOR DETAILED OCCUPANCY LOAD INFORMATION		CORRIDOR WIDTH 0.2" OR 0.15" PER OCC.			EGRESS DOOR WIDTH 0.2" OR 0.15" PER OCC.			STAIR WIDTH 0.3" OR 0.2" PER OCC.		
		MIN.	CALC.	ACTUAL	MIN.	CALC.	ACTUAL	MIN.	CALC.	ACTUAL
FIRST FLOOR	225 OCCUPANTS	44"	34"	72"	32"	34"	56"	-	-	-
TOTAL	225 OCCUPANTS									

NUMBER OF EXITS		EGRESS PATH	
	REQUIRED	PROVIDED	
FIRST FLOOR	2	4	
TOTAL	2	4	

FLOOR ASSEMBLY : UL# XXXXX **EXTERIOR WALL ASSEMBLY : UL# XXXXX**

ROOF ASSEMBLY : UL# XXXXX **FIRE BARRIER ASSEMBLY : UL# XXXXX**

A. PARTITION TYPES & FIRE RESISTIVE RATINGS INDICATED ON A WALL ARE TO BE CONTINUOUS FOR THE LENGTH & HEIGHT OF A PARTITION.

B. OPENINGS IN RATED WALL, FLOOR, CEILING & ROOF ASSEMBLIES SHALL BE SEALED WITH PENETRATION SEALANT SYSTEMS MEETING OR EXCEEDING THE REQUIRED FIRE RESISTIVE RATINGS.

C. MAINTAIN THE FIRE RATING OF CONSTRUCTION AROUND CABINETS, PANELS, & BOXES RECESSED IN FIRE RATED WALL, FLOOR, & CEILING ASSEMBLIES.

D. PROVIDE CONTINUOUS PERIMETER FIRE SAFING BETWEEN FLOORS & COORDINATE THE INSTALLATION WITH THE EXTERIOR WALL. FIRE RATING OF SAFING SHALL MATCH FIRE RATING OF FLOOR CONSTRUCTION.

AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS

IBC SECTION 903.2.1.3 GROUP A-3 AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED FOR FIRE AREAS CONTAINING GROUP A-3 OCCUPANCIES AND INTERVENING FLOORS WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS.

- THE FIRE AREA EXCEEDS 12,000 SF
- THE FIRE AREA HAS AN OCCUPANT LOAD OF 300 OR MORE

STANDPIPE SYSTEM REQUIREMENTS

LIST ALL FACTORS GOVERNING REQUIRED STANDPIPE SYSTEMS BASED ON OCCUPANCY AND USE GROUP IN IBC 903.2.

PORTABLE FIRE EXTINGUISHER REQUIREMENTS

F.E.C. FIRE EXTINGUISHER CABINET TYPE "ABC" FIRE EXTINGUISHER IN SEMI-RECESSED WALL CABINET. CONFIRM PLACEMENT WITH LOCAL INSPECTOR / FIRE MARSHAL PRIOR TO INSTALLATION.

F.E.K. FIRE EXTINGUISHER - KITCHEN TYPE "K" FIRE EXTINGUISHER ON SURFACE-MOUNTED WALL HOOK. CONFIRM PLACEMENT WITH LOCAL INSPECTOR / FIRE MARSHAL PRIOR TO INSTALLATION.

F.E. FIRE EXTINGUISHER TYPE "ABC" FIRE EXTINGUISHER ON SURFACE-MOUNTED WALL HOOK. CONFIRM PLACEMENT WITH LOCAL INSPECTOR / FIRE MARSHAL PRIOR TO INSTALLATION.

SEE LIFE SAFETY PLANS AND FLOOR PLANS FOR LOCATIONS OF EACH TYPE OF PORTABLE FIRE EXTINGUISHER.

- MAX FLOOR AREA PER F.E.:
- 3500SQFT
- MAX DISTANCE BETWEEN F.E.: 75FT

PLUMBING FIXTURES

TOTAL OCCUPANT LOAD PER OCCUPANCY CLASSIFICATION	WATER CLOSETS AND/OR URINALS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINKS
	MALE	FEMALE	MALE	FEMALE		
BUSINESS (B) 103 TOTAL (51 M / 52 F)	1 PER 25 FOR FIRST 50; 1 PER 50 FOR REMAINDER EXCEEDING 50	1 PER 50 FOR FIRST 50; 1 PER 50 FOR REMAINDER EXCEEDING 50	1 PER 40 FOR THE FIRST 80; 1 PER 80 FOR THE REMAINDER	1 PER 80 FOR THE REMAINDER	1 PER 100	1 REQUIRED
	2.02 REQUIRED	2.02 REQUIRED	1.275 REQUIRED	1.3 REQUIRED	1.03 REQUIRED	1 PROVIDED
	3 PROVIDED	3 PROVIDED	2 PROVIDED	2 PROVIDED		
ASSEMBLY (A-3) 122 TOTAL (61 M / 61 F)	1 PER 125	1 PER 65	1 PER 200	1 PER 200	1 PER 500	1 REQUIRED
	0.49 REQUIRED	0.94 REQUIRED	0.3 REQUIRED	0.3 REQUIRED	0.25 PROVIDED	1 PROVIDED
	1 PROVIDED	1 PROVIDED	0 PROVIDED	0 PROVIDED		
	3 TOTAL REQUIRED	3 TOTAL REQUIRED	2 TOTAL REQUIRED	2 TOTAL REQUIRED	2 TOTAL REQUIRED	1 TOTAL REQUIRED
	4 TOTAL PROVIDED	4 TOTAL PROVIDED	2 TOTAL PROVIDED	2 TOTAL PROVIDED	2 TOTAL PROVIDED	1 TOTAL PROVIDED

GENERAL INFO

PROJECT CONTACTS			
OWNER	PEARL RIVER VALLEY WATER SUPPLY DISTRICT	ARCHITECT	WIER BOERNER ALLIN, PLLC
CONTACT	TAMMIE BALLARD	CONTACT	JAMIE WIER
PHONE	769.231.7702	PHONE	601.321.9107
ADDRESS	115 MADISON LANDING CIRCLE RIDGELAND, MS 39157	ADDRESS	2727 OLD CANTON ROAD, SUITE 200 JACKSON MS 39216
EMAIL	tballard@therez.ms	EMAIL	vwier@wbaarchitecture.com

AUTHORITIES HAVING JURISDICTION			
PRIMARY AHJ	CONTACT PERSON(S)	PRIMARY AHJ	CONTACT PERSON(S)
ADDITIONAL AHJ	CONTACT PERSON(S)	ADDITIONAL AHJ	CONTACT PERSON(S)

APPLICABLE CODES		
SCOPE	YEAR / CODE	AUTHORITY
BUILDING	2018 INTERNATIONAL BUILDING CODE	INTERNATIONAL CODE COUNCIL
ACCESSIBILITY	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN	UNITED STATES DEPARTMENT OF JUSTICE
LIFE SAFETY	2018 INTERNATIONAL LIFE SAFETY CODE	INTERNATIONAL CODE COUNCIL
FIRE PREVENTION	2018 INTERNATIONAL FIRE CODE	INTERNATIONAL CODE COUNCIL
ENERGY	2018 INTERNATIONAL BUILDING CODE	INTERNATIONAL CODE COUNCIL
ELECTRIC	2017 INTERNATIONAL ELECTRICAL CODE NFPA 70	NATIONAL FIRE PREVENTION ASSOCIATION
PLUMBING	2018 INTERNATIONAL PLUMBING CODE	INTERNATIONAL CODE COUNCIL
MECHANICAL	2018 INTERNATIONAL MECHANICAL CODE	INTERNATIONAL CODE COUNCIL
GAS	2018 INTERNATIONAL FUEL GAS CODE	INTERNATIONAL CODE COUNCIL
ZONING	2016 BRANDON ZONING ORDINANCE (W/ 2022 AMENDMENTS)	CITY OF BRANDON

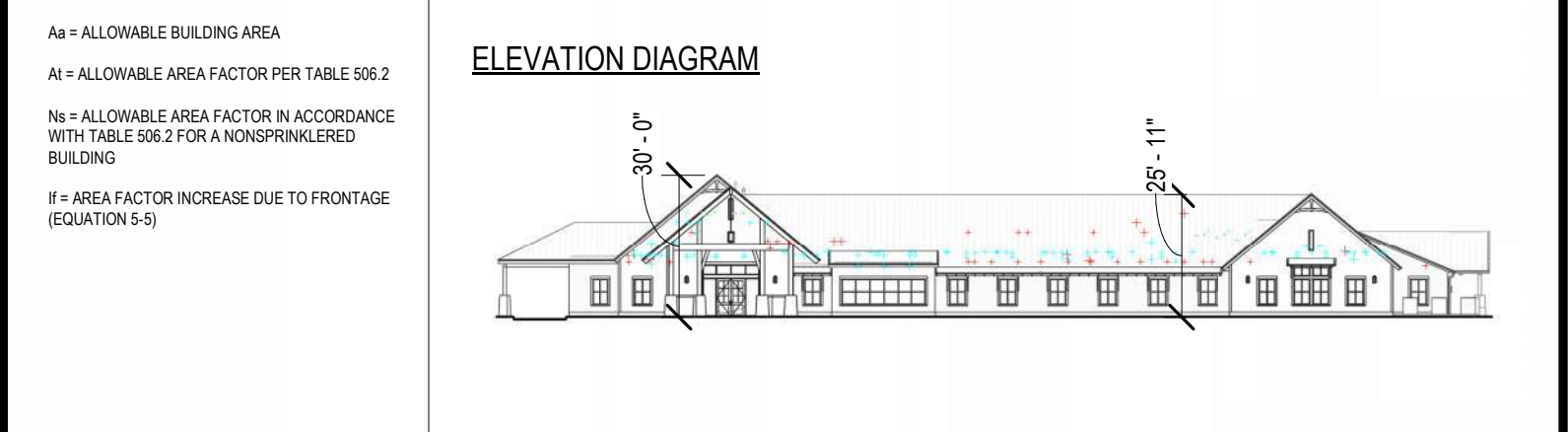
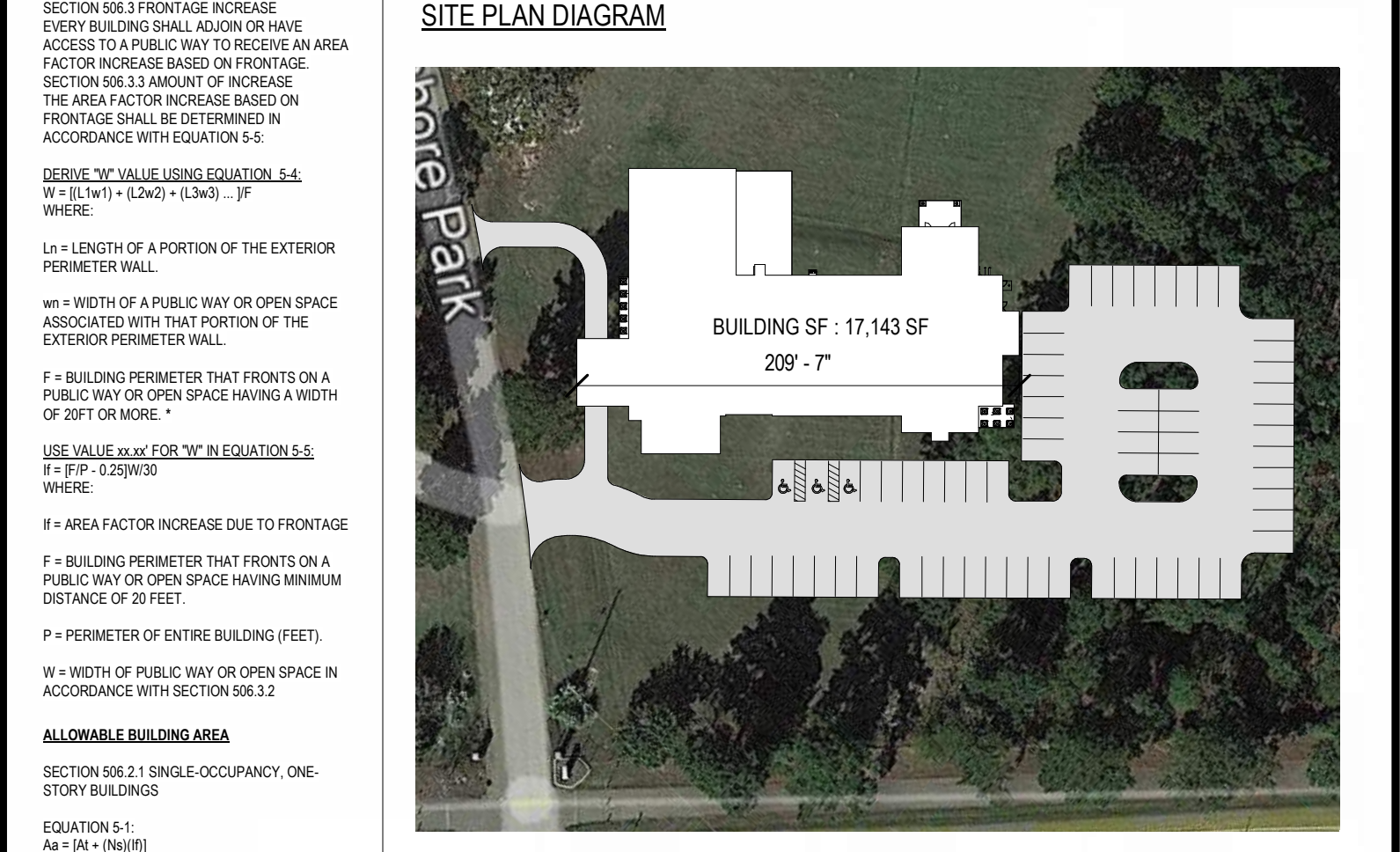
USE GROUP AND OCCUPANCY CLASSIFICATION	
USE GROUP(S): B, A-3	MIXED USE CLASSIFICATION (IF APPLICABLE)

CONSTRUCTION TYPE & FIRE RESISTANCE RATINGS			
FIRE-RESISTANCE RATINGS PER TABLE 601		FIRE-RESISTANCE RATINGS FOR NONBEARING EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE PER TABLE 602	
STRUCTURAL FRAME	0 HR.		
FLOOR CONSTRUCTION	0 HR.	FIRE SEPARATION DISTANCE	CONSTR. TYPE VB
ROOF CONSTRUCTION	0 HR.	X ≤ 5'	1 HR.
EXTERIOR BEARING WALLS	0 HR.	5' ≤ X ≤ 10'	1 HR.
INTERIOR BEARING WALLS	0 HR.	10' ≤ X ≤ 30'	0 HR.
INTERIOR NONBEARING WALLS	0 HR.	X > 30'	0 HR.
BUILDING FULLY SPRINKLERED:	Y	N	

HEIGHT & AREA LIMITATIONS

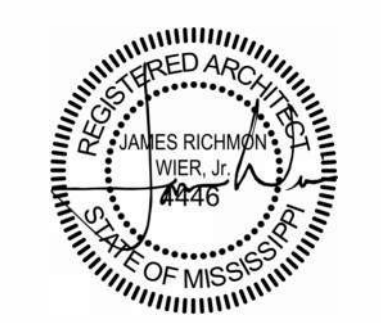
HEIGHT	ALLOWABLE		ACTUAL	
	PER IBC TABLE 504.3 (IN FEET)	60	PER IBC TABLE 504.4 (IN STO.)	2
PER IBC TABLE 504.3 (IN FEET)	60	30	ALLOWABLE (CALCULATE FRONTAGE INCREASE BELOW)	ACTUAL BUILDING AREA
PER IBC TABLE 504.4 (IN STO.)	2	1	24,000 SF	17,143 SF

BUILDING DIAGRAMS



PEARL RIVER VALLEY WATER SUPPLY DISTRICT MAIN OFFICE

6018 Lakeshore Park
Brandon, MS 39047



06.21.24

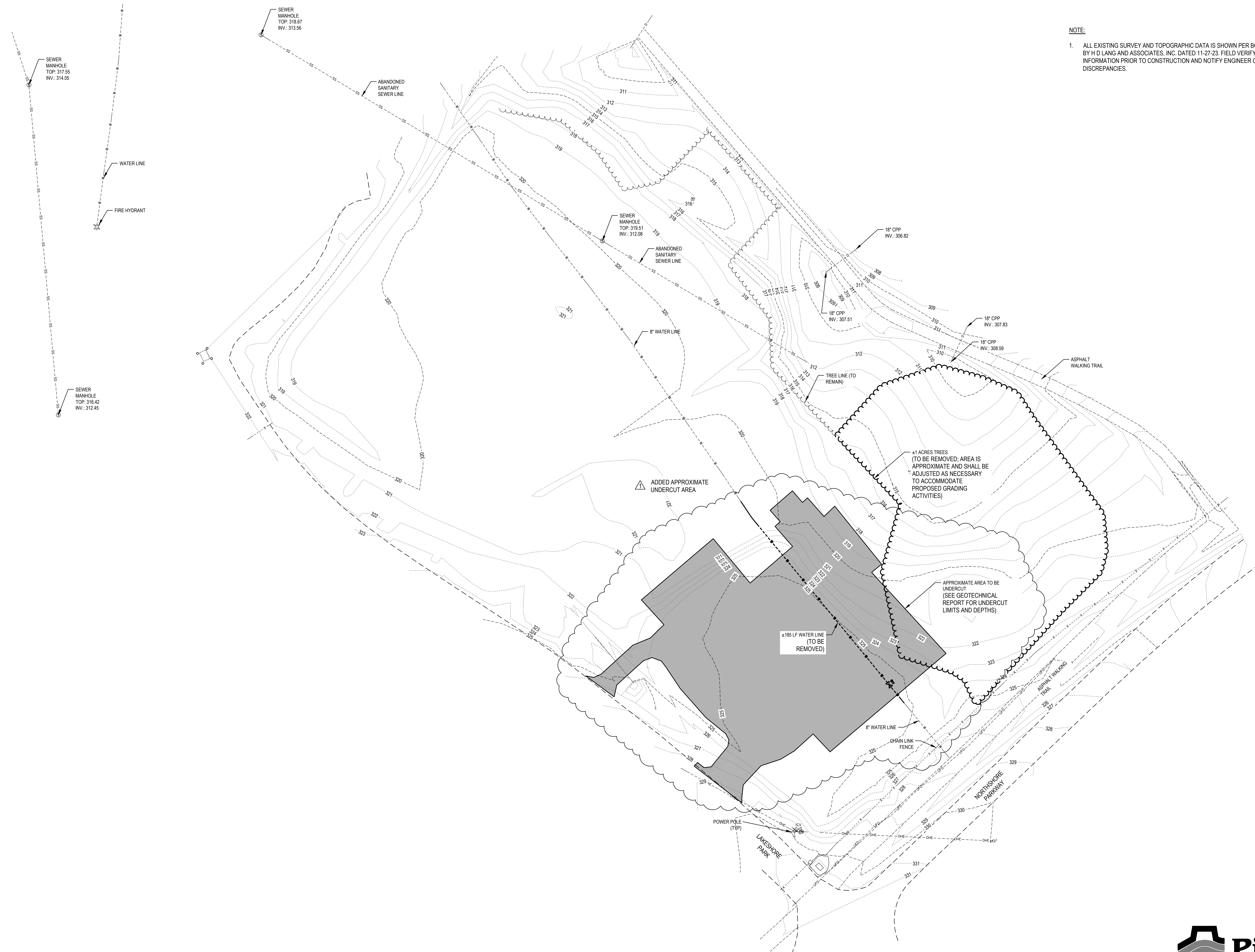
CONSTRUCTION DOCUMENTS
WBA # 23-072

REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum 01	08/09/24

R200
LIFE SAFETY COMPLIANCE

NOTE:

1. ALL EXISTING SURVEY AND TOPOGRAPHIC DATA IS SHOWN PER BOUNDARY SURVEY BY H D LANG AND ASSOCIATES, INC. DATED 11-27-23. FIELD VERIFY ALL EXISTING INFORMATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

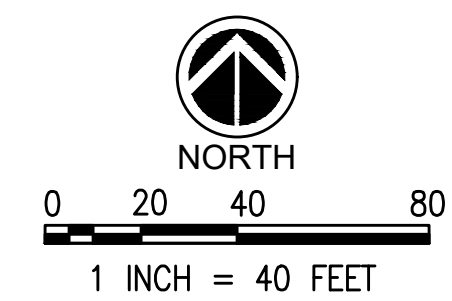


21 JUNE 2024

**CONSTRUCTION
DOCUMENTS**

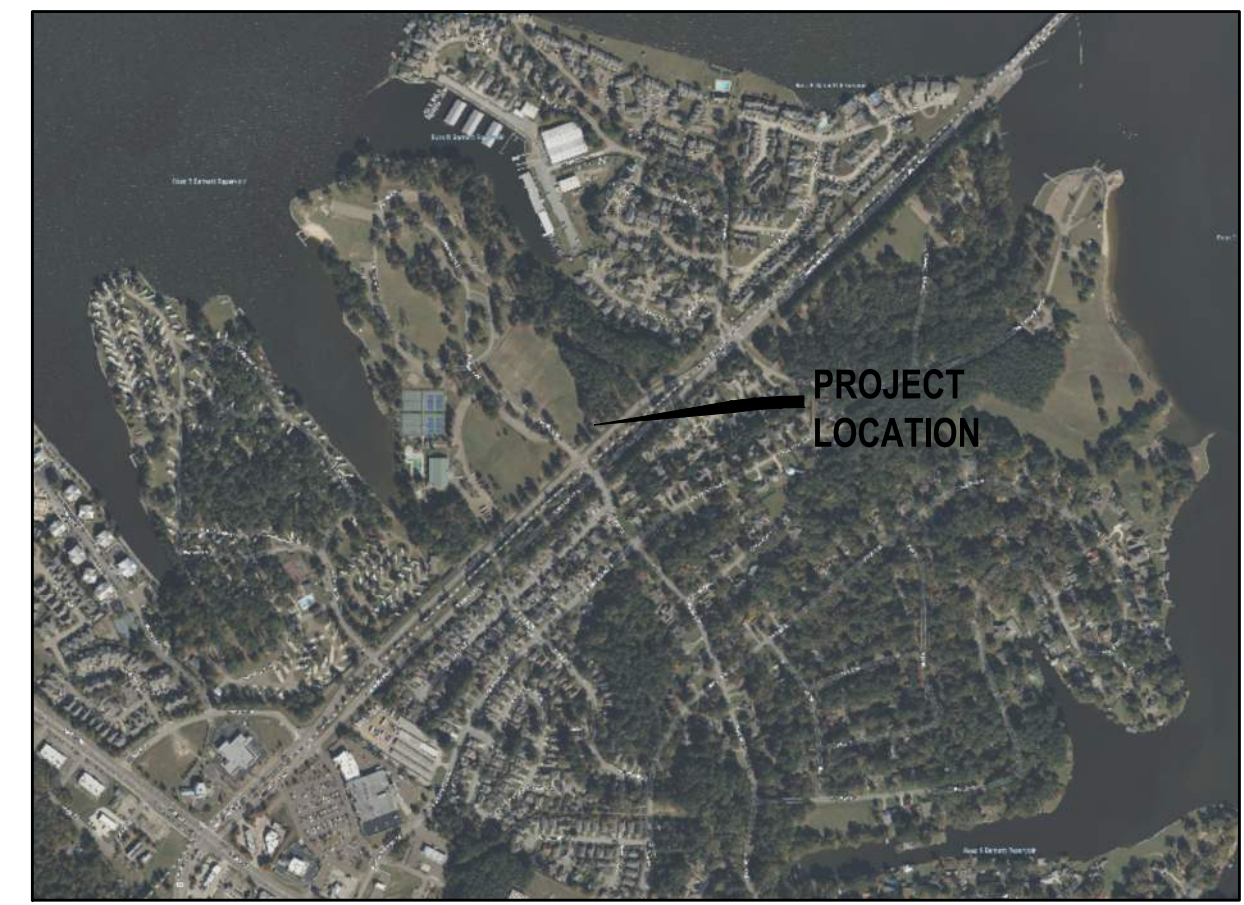
WBA # 23-072

REVISIONS		
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	8-9-24





Pickering Firm, Inc.
Facility Design • Civil Engineering • Surveying •
Transportation • Natural / Water Resources
2001 Airport Road, Suite 201
Flowood, MS 39232
601.956.3663
PFI Job #: 26610.00 - 002





VICINITY MAP
1"=1000'

-  LIGHT DUTY ASPHALT PAVEMENT (26,720 SF)
2" SURFACE COURSE SC-1, TYPE 8
4" BASE COURSE BB-1, TYPE 6
12" LIME TREATMENT, CLASS C, 6 PERCENT @ 98%
STANDARD PROCTOR, 2' BEYOND BACK OF CURB
-  CONCRETE SIDEWALK (3,250 SF)
4" PORTLAND CEMENT CONCRETE, 4000 PSI,
WITH WELDED WIRE MESH
COMPACTED SUBGRADE, 98%

NOTES:

1. ALL CURB DIMENSIONS SHOWN ARE TO FACE OF CURB (UNLESS OTHERWISE NOTED).
2. THE PAVEMENT DESIGN RECOMMENDATIONS SHOWN HERE ARE BASED ON GEOTECHNICAL REPORT.
3. REFER TO GEOTECHNICAL REPORT FOR UNDERCUT DEPTH, EARTHWORK CONSTRUCTION, AND SUBGRADE PREPARATION INFORMATION.
4. THE CONTRACTOR SHALL ENSURE THAT ALL SLEEVES FOR UNDERGROUND UTILITIES ARE INSTALLED PRIOR TO PAVING.
5. CONCRETE PAVEMENT CONSTRUCTION & JOINT LAYOUT SHALL CONFORM TO THE LATEST ACI 330R-08 "GUIDE FOR THE DESIGN AND CONSTRUCTION OF CONCRETE PARKING LOTS" AND ACI 224.3R-95 "JOINTS IN CONCRETE CONSTRUCTION".
6. ALL EXISTING SURVEY AND TOPOGRAPHIC DATA IS SHOWN PER BOUNDARY SURVEY BY H D LANG AND ASSOCIATES, INC. DATED 11-27-23. FIELD VERIFY ALL EXISTING INFORMATION PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
7. ADD ALTERNATES SHOWN IN APPLICABLE VIEWS TYPICAL. SEE BID DOCUMENTS FOR DESCRIPTIONS OF ADD ALTERNATES.

PARKING CALCULATIONS

PARKING PROVIDED: 67 TOTAL SPACES (3 HANDICAP, 1 VAN ACCESSIBLE)

SITE INFORMATION

ZONING: SPECIAL USE DISTRICT (S-1)
MAXIMUM BUILDING HEIGHT: 35 FEET
MINIMUM LOT AREA: N/A
SETBACKS: FRONT 50'
SIDE 20'
REAR 20'



21 JUNE 2024

CONSTRUCTION DOCUMENTS

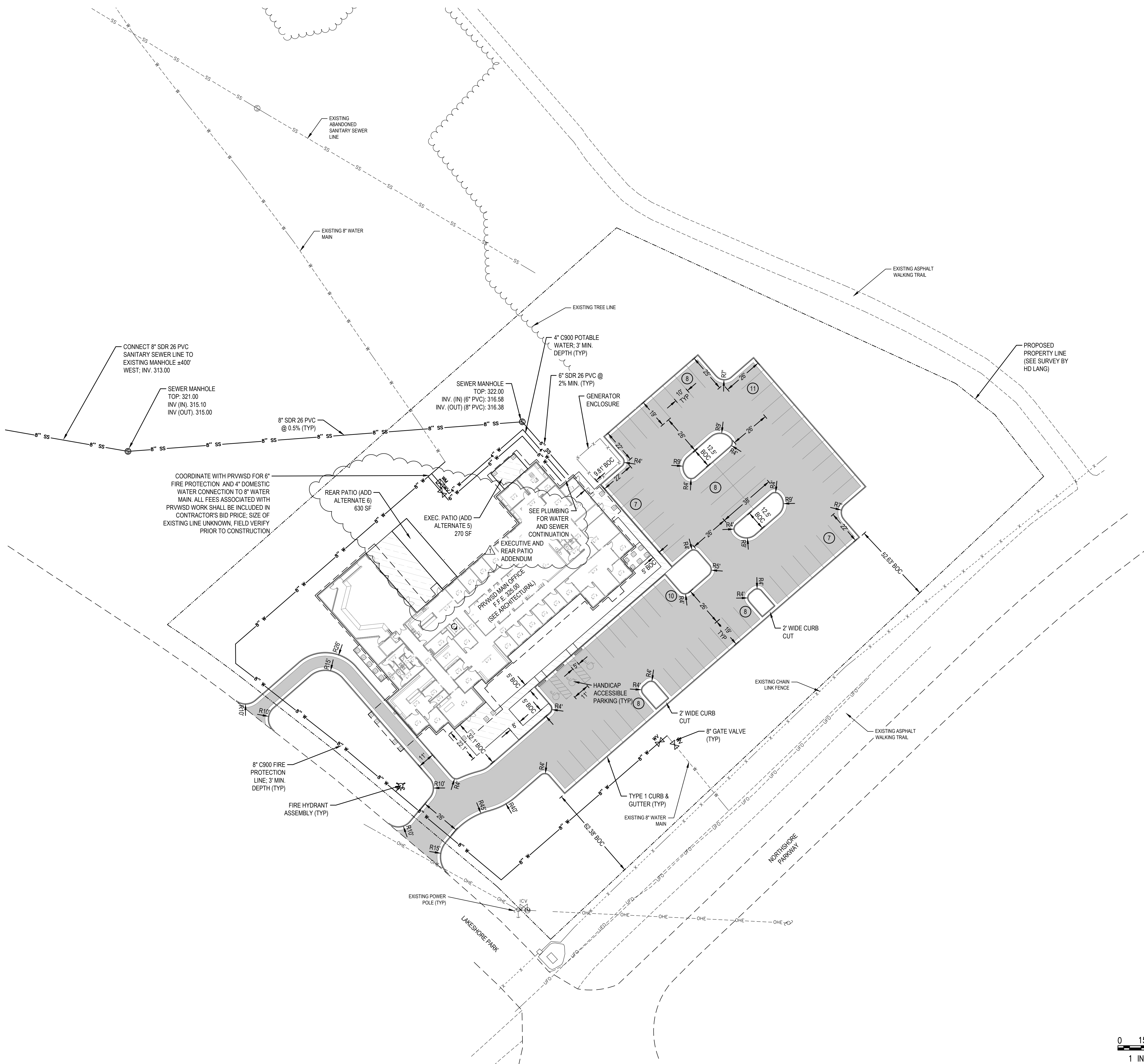
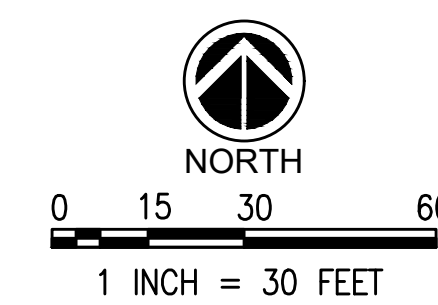
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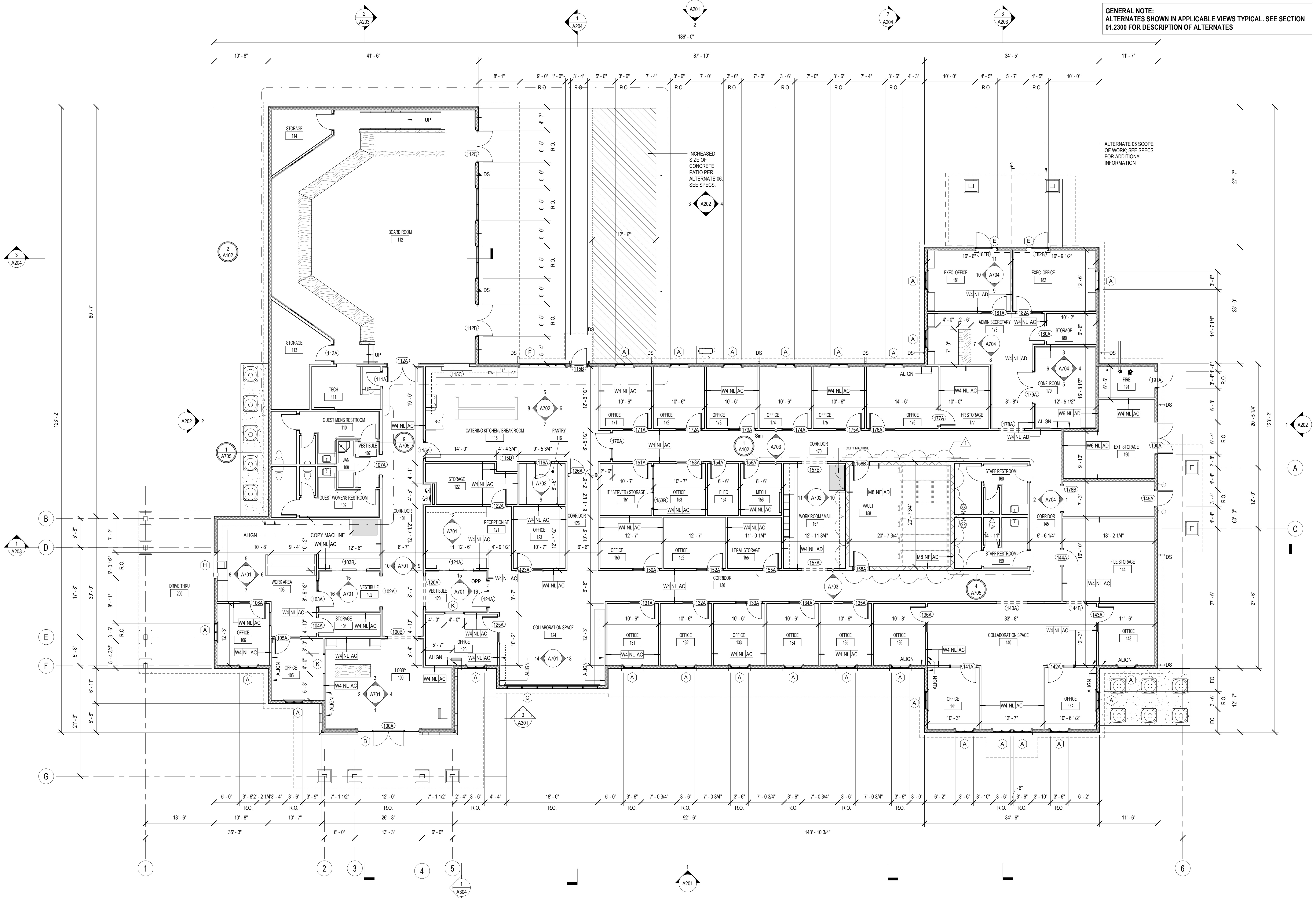
NO.	DESCRIPTION	DATE
1	ADDENDUM 1	8-9-24



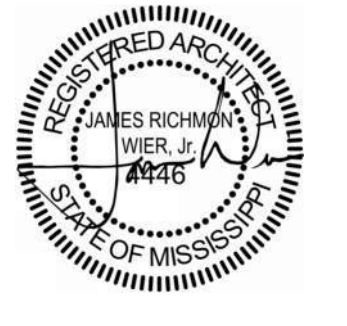
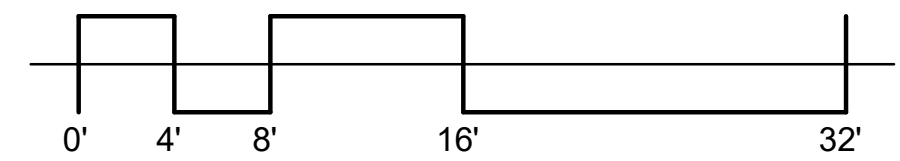
Pickering Firm, Inc.
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Transportation • Natural / Water Resources
2001 Airport Road, Suite 201
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601.956.3663
PFI Job #: 26610.00 - 002



GENERAL NOTE:
ALTERNATES SHOWN IN APPLICABLE VIEWS TYPICAL. SEE SECTION
01.2300 FOR DESCRIPTION OF ALTERNATES



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



06.21.24

CONSTRUCTION DOCUMENTS
WBA # 23-072

REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 01	08/09/24

GENERAL NOTE:
ALTERNATES SHOWN IN APPLICABLE VIEWS TYPICAL. SEE SECTION 01.2300 FOR DESCRIPTION OF ALTERNATES

DECORATIVE LIGHTING SCHEDULE

SYMBOL	MANUFACTURER	PART NAME / NUMBER	COUNT	LOCATION
⊙	VISUAL COMFORT	ELLIOT MEDIUM DOME PENDANT - SK 5351PGY	2	LOBBY 100
⊖	VISUAL COMFORT	24" CABINET MAKERS PICTURE LIGHT - SL 2706HAB	2 PER ROOM	EXEC. OFFICE 181, EXEC OFFICE 182
⊙	VISUAL COMFORT	DALSTON HANGING SHADE - SP 5020HAB-L	3	BREAKROOM 114
⊖	VISUAL COMFORT	HULTON SCONCE - TOB 2190HAB-L	2 PER VANITY	GUEST RESTROOM 109, GUEST RESTROOM 110, STAFF RESTROOM 159, STAFF RESTROOM 160
⊙	VISUAL COMFORT	DALSTON HANGING SHADE - SP 5020HAB-L	2	CONF. ROOM 179
⊖	VISUAL COMFORT	18" CABINET MAKERS PICTURE LIGHT - SL 2706HAB	2	ADMIN SECRETARY 178
⊖	VISUAL COMFORT	18" CABINET MAKERS PICTURE LIGHT - SL 2705HAB	6	LOBBY 100

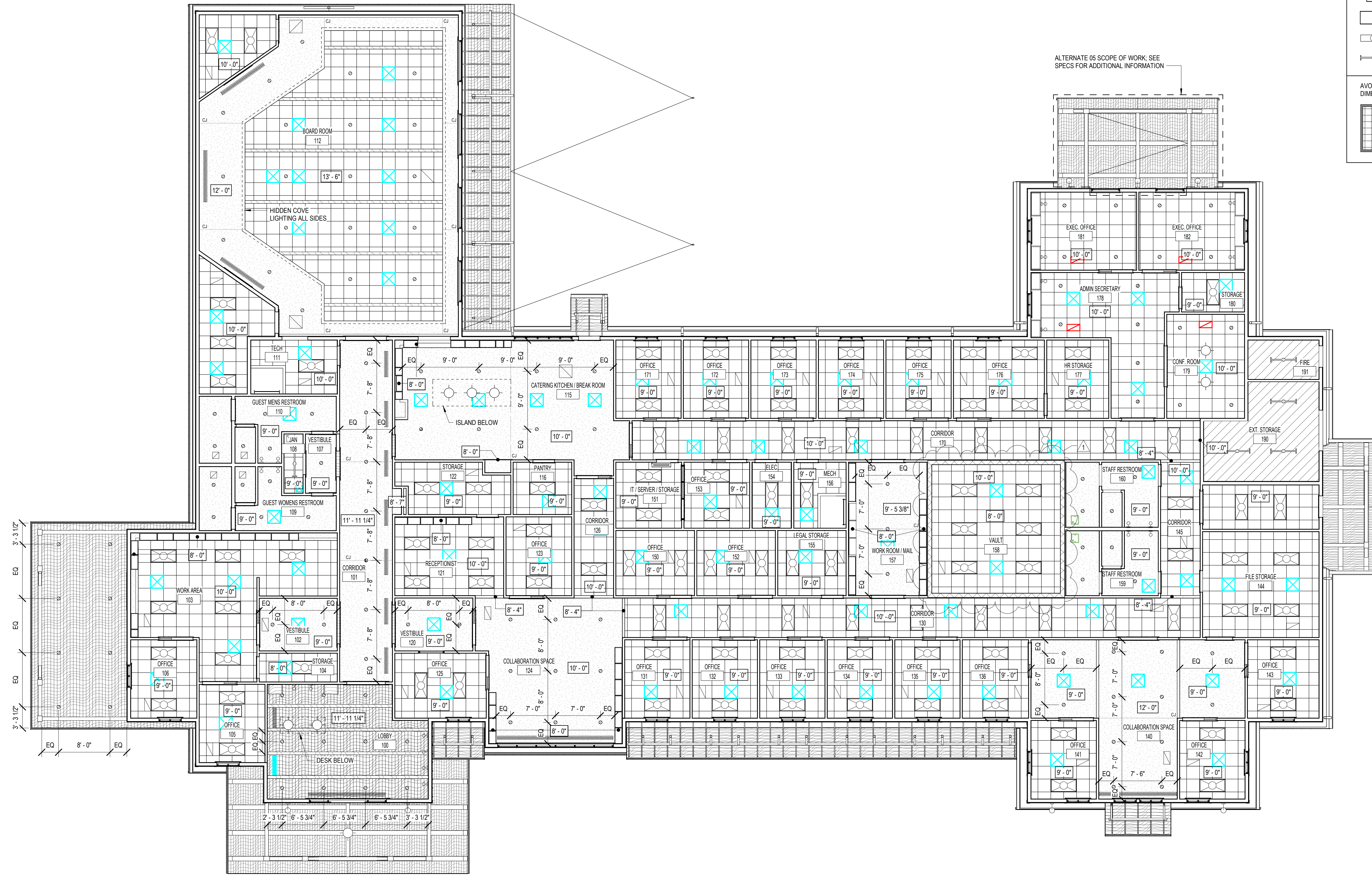
RCP LEGEND

	GYPSUM BOARD CEILING, PAINTED		ACOUSTICAL CEILING TILE		EXPOSED STRUCTURE, NO CEILING FINISH		T&G WOOD CEILING
--	-------------------------------	--	-------------------------	--	--------------------------------------	--	------------------

	RECESSED FIXTURE		RECESSED LINEAR SLOTLIGHT
	SURFACE FIXTURE		SURFACE MTD. ADJUSTABLE FIXTURE
	SURFACE MTD. LED FIXTURE		EXIT SIGN
	PENDANT FIXTURE		HVAC SUPPLY REGISTER
	PENDANT DOWNLIGHT FIXTURE		HVAC RETURN REGISTER
	WALL MTD. FIXTURE		HVAC EXHAUST REGISTER
	2X2 RECESSED FIXTURE		CEILING ACCESS PANEL P-PANEL FOR PLUM. M-PANEL FOR MECH.
	2X4 RECESSED FIXTURE		STRIP LIGHT FIXTURE
	SURFACE MTD. FIXTURE		CEILING FAN

AVOID USING LESS THAN 1/2 CEILING PANEL DIMENSION AT A.C.T. CEILING PERIMETER

	NO		YES
--	----	--	-----

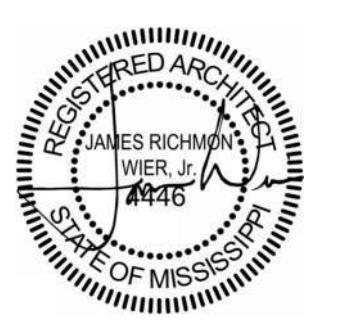


ALTERNATE 05 SCOPE OF WORK; SEE SPECS FOR ADDITIONAL INFORMATION



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6018 Lakeshore Park
Brandon, MS 39047



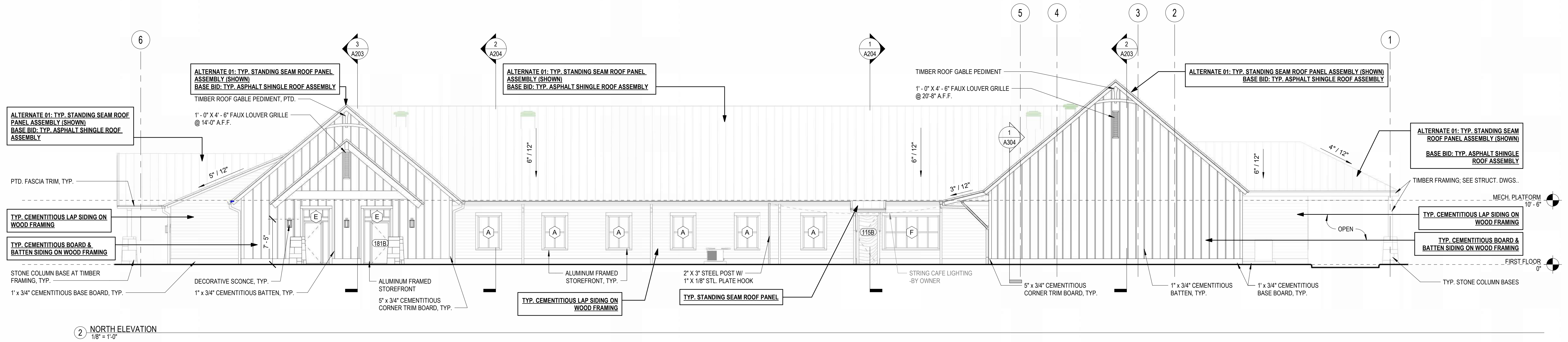
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CONSTRUCTION DOCUMENTS
WBA # 23-072

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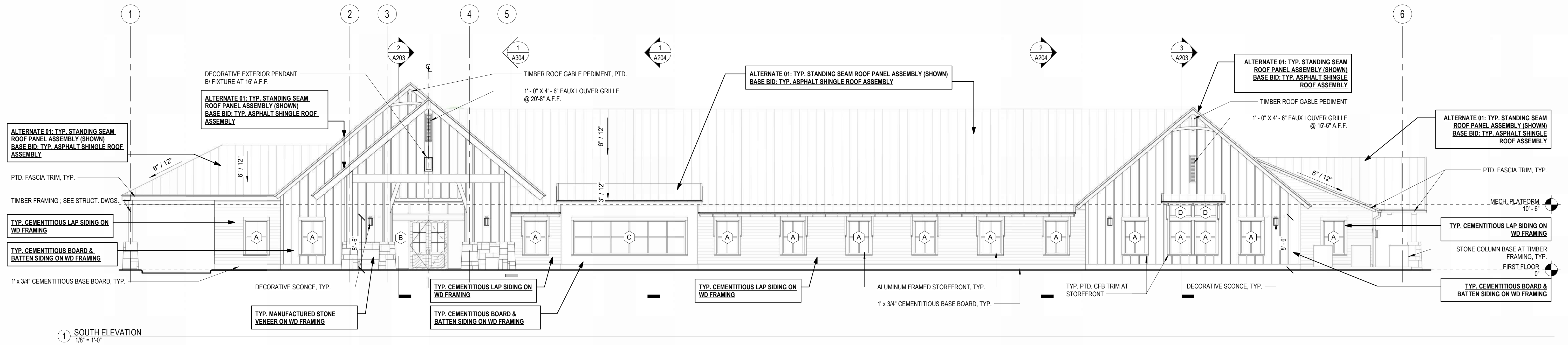
2 NORTH ELEVATION
1/8" = 1'-0"

GENERAL ASSEMBLY NOTES:
1. SEE SPECIFICATIONS FOR MORE DETAILED REQUIREMENTS OF EACH ASSEMBLY ITEM, TYP.
2. COORD. FRAMING W/ STRUCT. DWGS.
3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
5. SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS

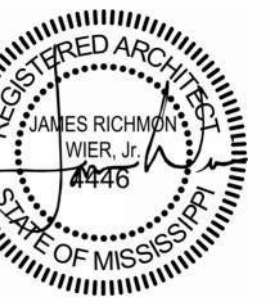
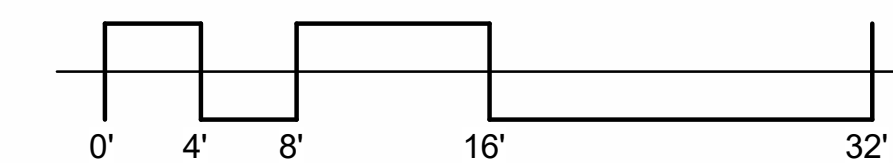
ROOF ASSEMBLIES:
TYP. ASPHALT SHINGLE ROOF ASSEMBLY (BASE BID):
- ARCH. ASPHALT SHINGLE ROOFING SYSTEM
- CONT. SELF-ADHERED MEMBRANE UNDERLAYMENT
- CONT. ROOF DECKING (SEE STRUCT.) W/ "H" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.
TYP. STANDING SEAM ROOF PANEL ASSEMBLY (ALTERNATE 01):
- ARCH. STANDING SEAM MTL. ROOF PANEL SYS.
- HEAT-RESISTANT SLIP SHEET
- ROOFING UNDERLAYMENT
- CONT. ROOF DECKING (SEE STRUCT.) W/ "H" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.

FOUNDATION ASSEMBLIES:
TYP. SLAB-ON-GRADE ASSEMBLY
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE

WALLS ASSEMBLIES:
TYP. MANUFACTURED STONE VENEER ON WOOD STUD FRAMING WALL ASSEMBLY
- MANUFACTURED STONE VENEER ANCHOR TO SHEATHING W/ TIES @ 16" O.C. VERT & 24" O.C. MAX TYP.
- AIR SPACE WITH DRAINAGE MAT
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
- WOOD STUD FRAMING @ 16" O.C. MAX TYP. FILLED W/ INSUL. (R-13), SEE SPECS.
- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE
TYP. CEMENTITIOUS LAP SIDING ON WOOD FRAMING WALL ASSEMBLY
- CEMENTITIOUS HORIZONTAL LAP SIDING ANCHORED TO SHEATHING
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
- WOOD STUD FRAMING @ 16" O.C. MAX TYP. FILLED W/ INSUL. (R-13), SEE SPECS.
- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE
TYP. CEMENTITIOUS BOARD AND BATTEN SIDING ON WOOD FRAMING WALL ASSEMBLY
- CEMENTITIOUS BATTEN TRIM @ 1'-4" O.C.
- CEMENTITIOUS VERTICAL PANELS ANCHORED TO SHEATHING
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
- WOOD STUD FRAMING @ 16" O.C. MAX TYP. FILLED W/ INSUL. (R-13), SEE SPECS.
- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE



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



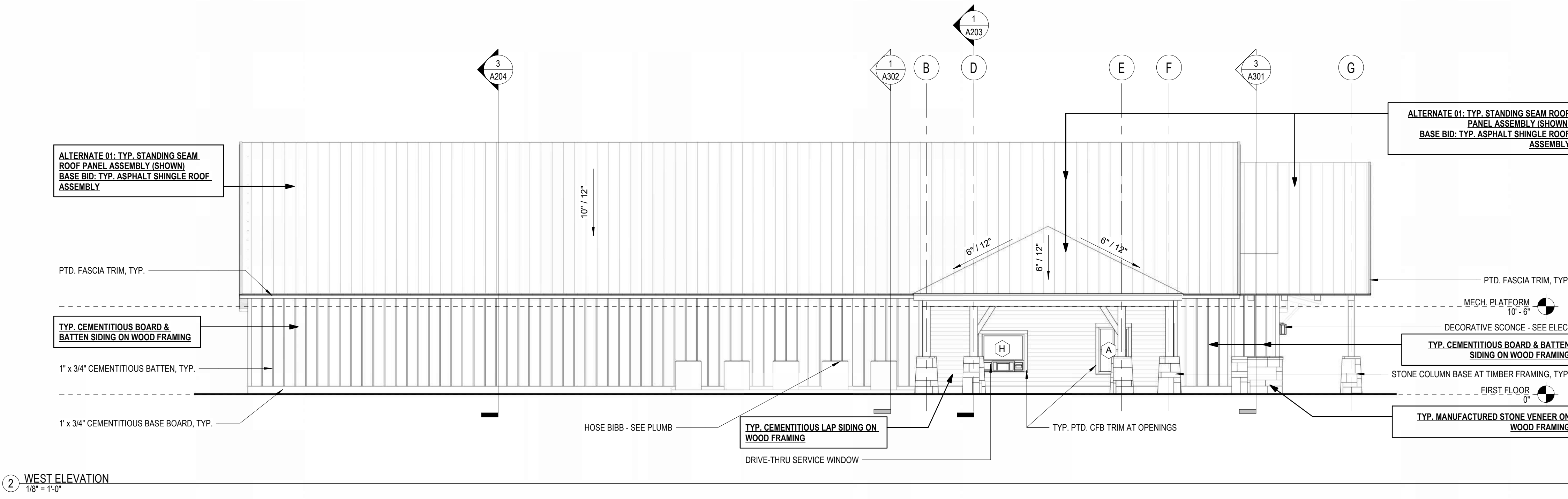
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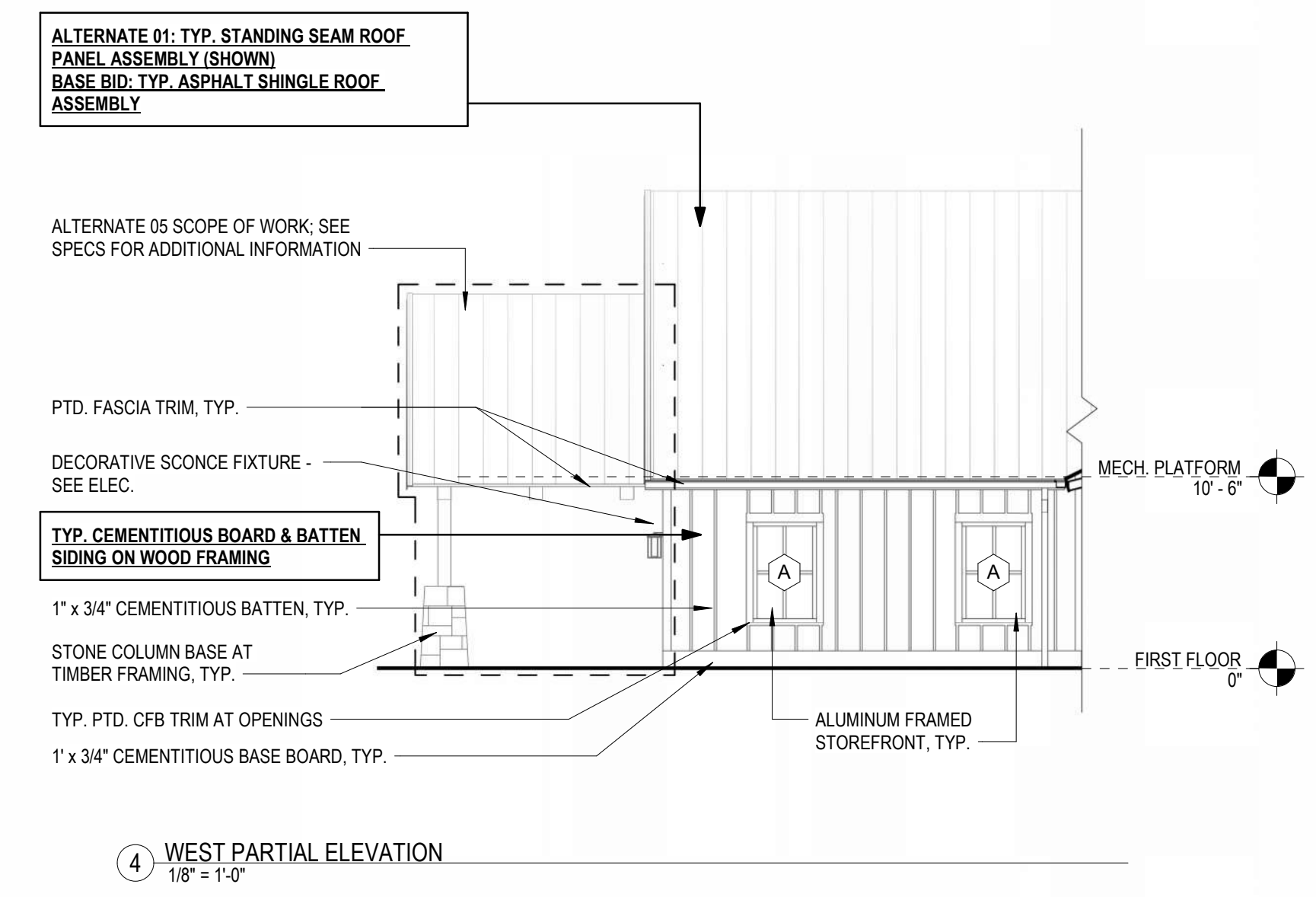
REVISIONS
NO. DESCRIPTION DATE
1 Addendum 01 08/09/24

A201
EXTERIOR
ELEVATIONS

GENERAL NOTE:
ALTERNATES SHOWN IN APPLICABLE VIEWS TYPICAL. SEE SECTION
01.2300 FOR DESCRIPTION OF ALTERNATES

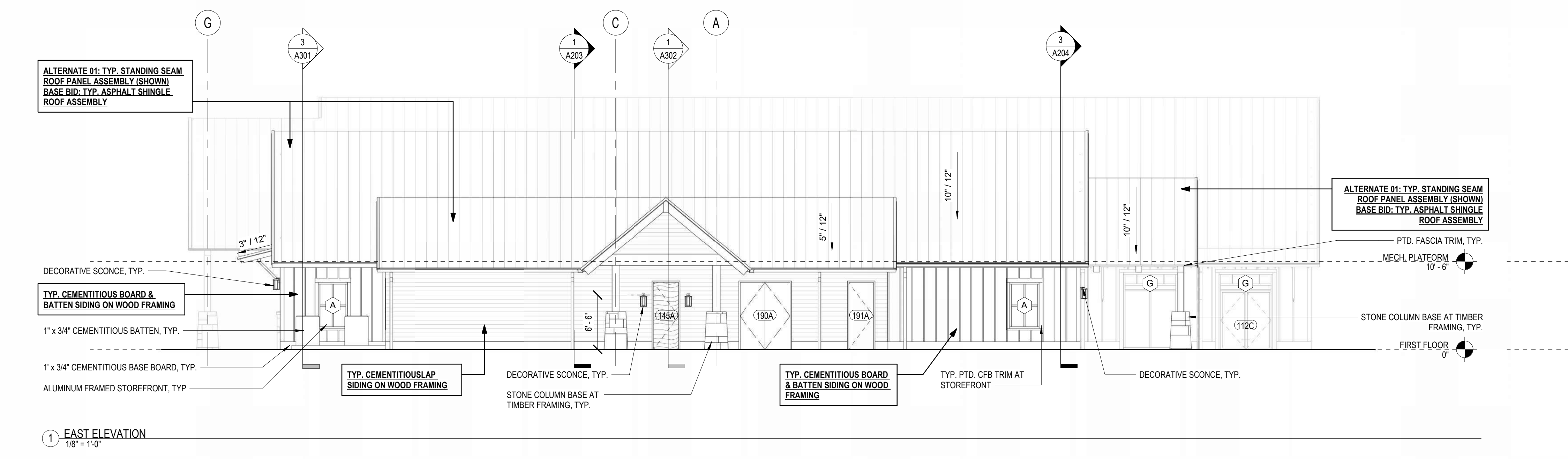


2 WEST ELEVATION
1/8" = 1'-0"

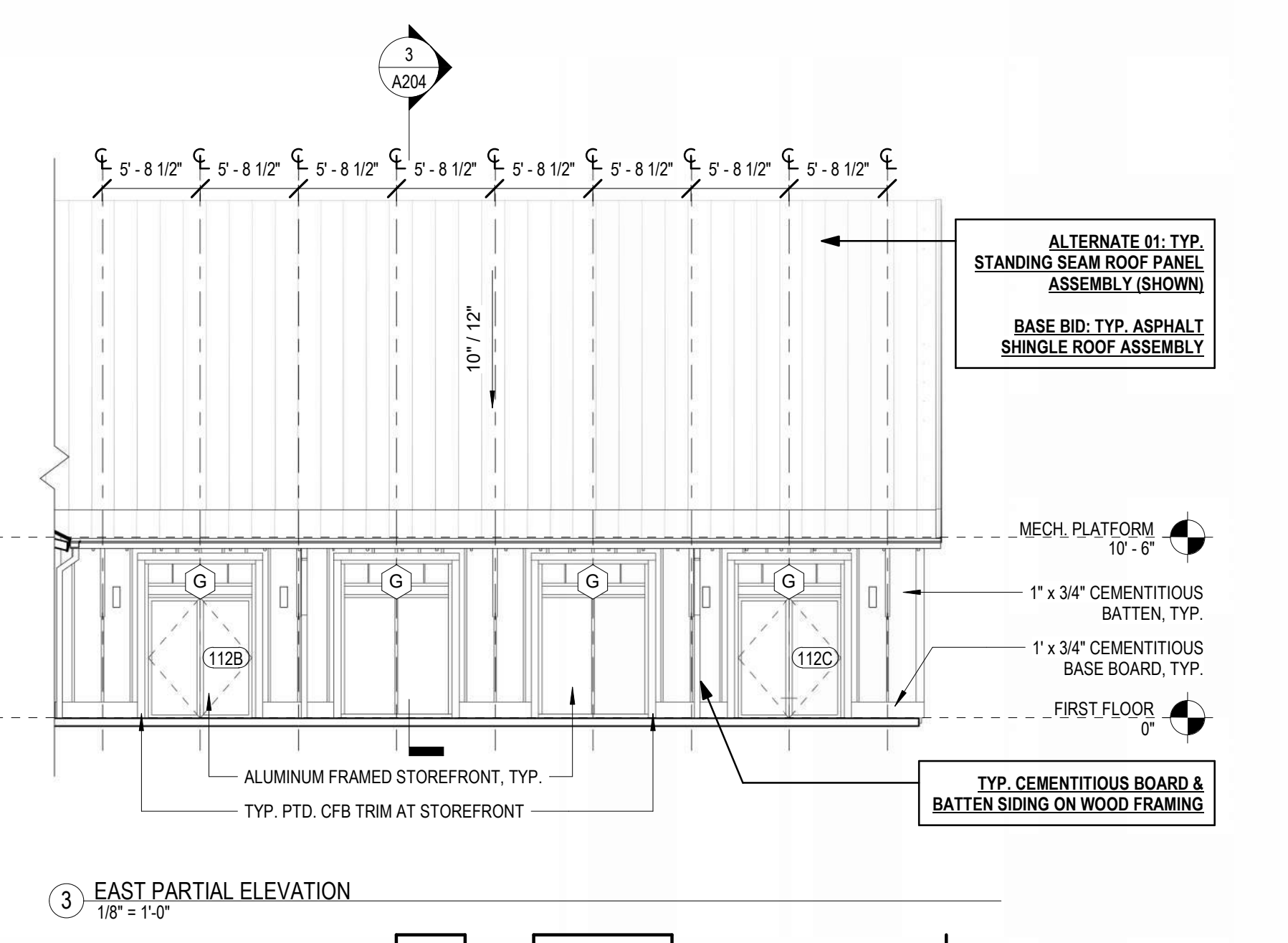


4 WEST PARTIAL ELEVATION
1/8" = 1'-0"

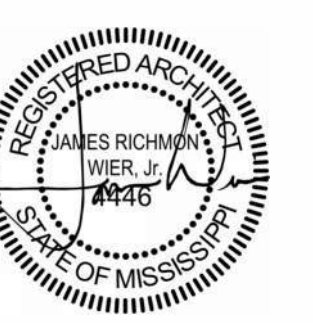
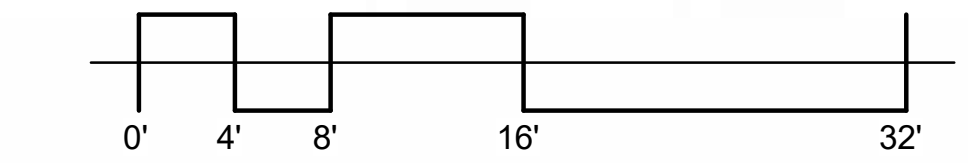
- GENERAL ASSEMBLY NOTES:**
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2. COORD. FRAMING W/ STRUCT. DWGS.
3. COORD. SHEATHING W/ STRUCT. DWGS. TAPE ALL JOINTS & SEAL ALL PENETRATIONS.
4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
5. SEE FINISH SCHED. FOR INTERIOR FINISH MATERIALS
- ROOF ASSEMBLIES:**
TYP. ASPHALT SHINGLE ROOF ASSEMBLY (BASE BID):
- ARCH. ASPHALT SHINGLE ROOFING SYSTEM
- CONT. SELF-ADHERED MEMBRANE UNDERLAYMENT
- CONT. ROOF DECKING (SEE STRUCT.) W/ "H" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.
TYP. STANDING SEAM ROOF PANEL ASSEMBLY (ALTERNATE 01):
- ARCH. STANDING SEAM METAL ROOF PANEL SYS.
- HEAT-RESISTANT SLIP SHEET
- ROOFING UNDERLAYMENT
- CONT. ROOF DECKING (SEE STRUCT.) W/ "H" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.
- FOUNDATION ASSEMBLIES:**
TYP. SLAB-ON-GRADE ASSEMBLY
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE
- WALLS ASSEMBLIES:**
TYP. MANUFACTURED STONE VENEER ON WOOD STUD FRAMING WALL ASSEMBLY
- MANUFACTURED STONE VENEER ANCHOR TO SHEATHING W/ TIES @ 16" O.C. VERT & 24" O.C. MAX TYP.
- AIR SPACE WITH DRAINAGE MAT
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
- WOOD STUD FRAMING @ 16" O.C. MAX TYP. FILLED W/ INSUL. (R-13), SEE SPECS.
- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE
TYP. CEMENTITIOUS LAP SIDING ON WOOD FRAMING WALL ASSEMBLY
- CEMENTITIOUS HORIZONTAL LAP SIDING ANCHORED TO SHEATHING
- ELASTOMERIC AIR BARRIER
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- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE
TYP. CEMENTITIOUS BOARD AND BATTEN SIDING ON WOOD FRAMING WALL ASSEMBLY
- CEMENTITIOUS BATTEN TRIM @ 1'-4" O.C.
- CEMENTITIOUS VERTICAL PANELS ANCHORED TO SHEATHING
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
- WOOD STUD FRAMING @ 16" O.C. MAX TYP. FILLED W/ INSUL. (R-13), SEE SPECS.
- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE



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



3 EAST PARTIAL ELEVATION
1/8" = 1'-0"



06.21.24

CONSTRUCTION
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1	Addendum 01	08/09/24

GENERAL NOTE:
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ALL PENETRATIONS:
4. COORD. MASONRY REINFORCING W/ STRUCT. DWGS.
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- ARCH. ASPHALT SHINGLE ROOFING SYSTEM
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- CONT. ROOF DECKING (SEE STRUCT.) w/ "H" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.

TYP. STANDING SEAM ROOF PANEL ASSEMBLY (ALTERNATE 01):
- ARCH. STANDING SEAM MITL. ROOF PANEL SYS.
- HEAT-RESISTANT SLIP SHEET
- ROOFING UNDERLAYMENT
- CONT. ROOF DECKING (SEE STRUCT.) w/ "H" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.

FOUNDATION ASSEMBLIES:

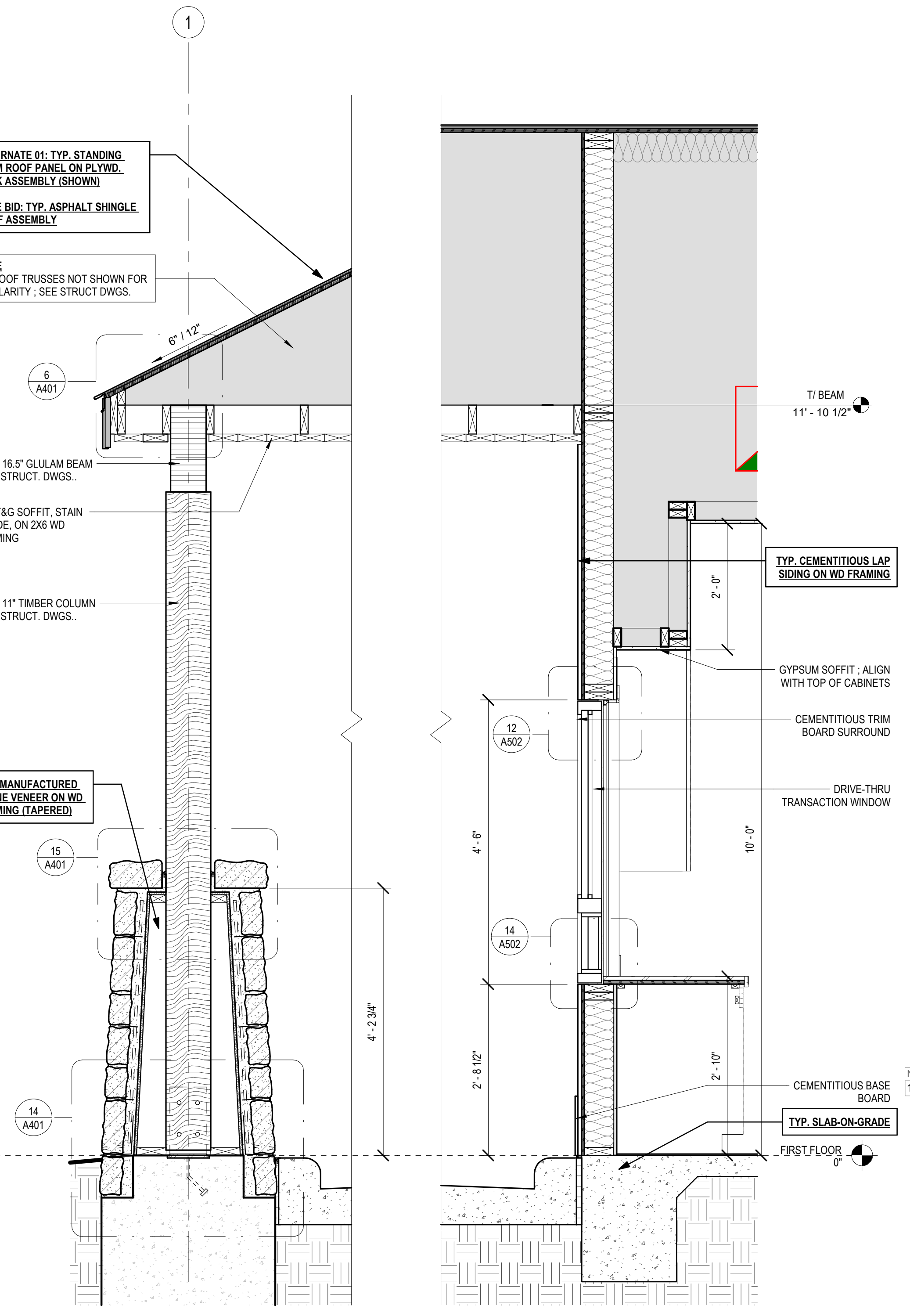
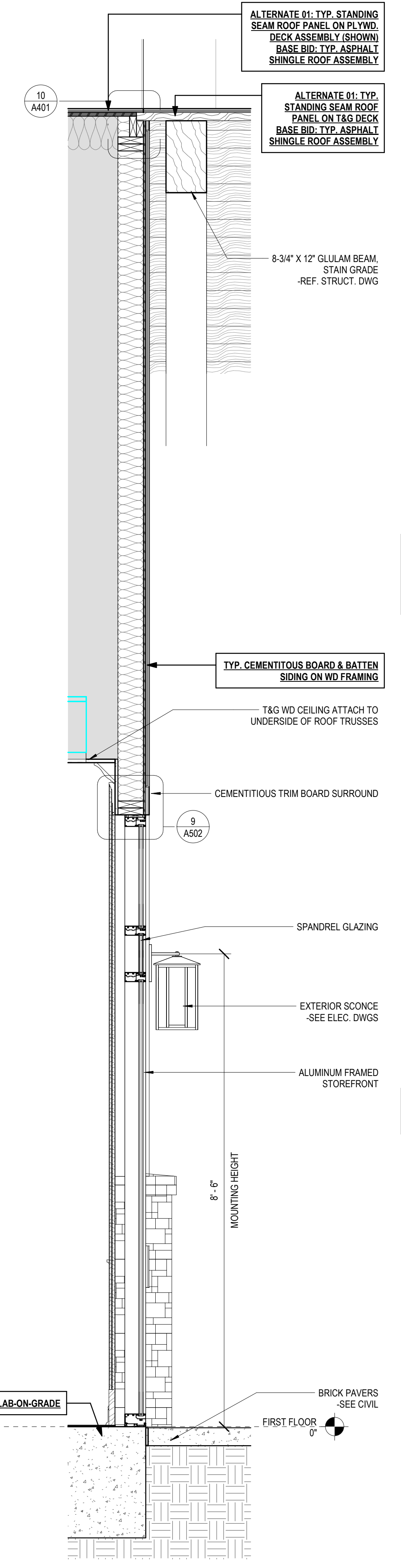
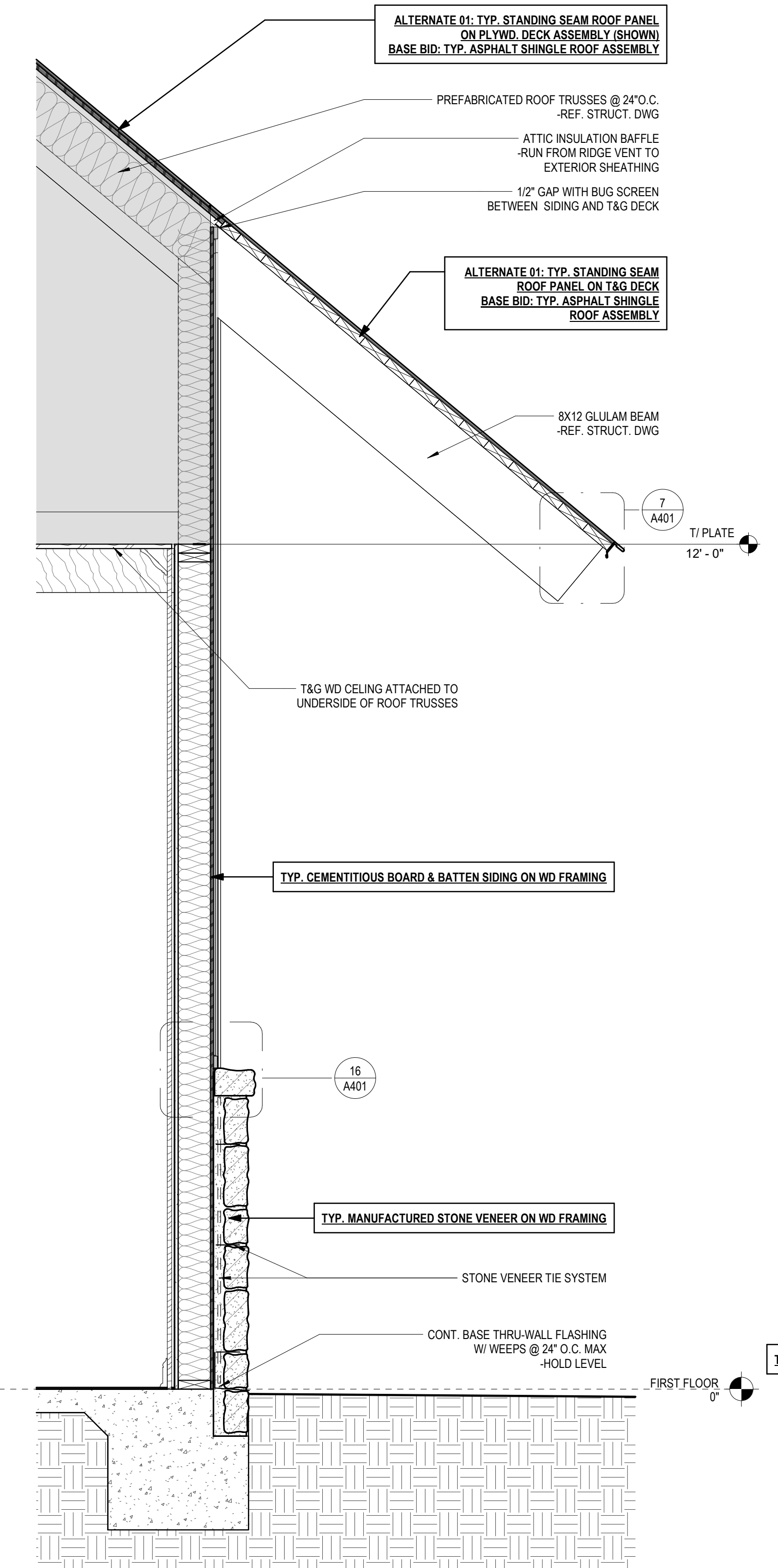
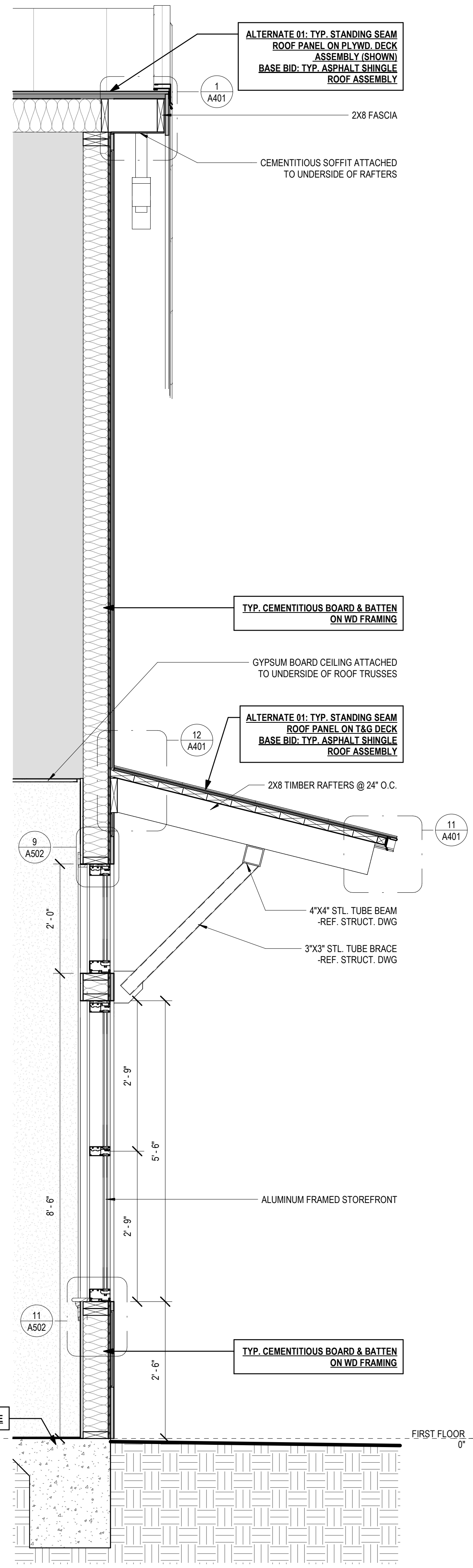
TYP. SLAB-ON-GRADE ASSEMBLY:
- CONCRETE FOUNDATION SYSTEM (SEE STRUCT.)
- UNDER SLAB VAPOR BARRIER
- GRAVEL FILL (SEE STRUCT. & CONFIRM W/ GEO-TECH.)
- COMPACTED SUBGRADE

WALLS ASSEMBLIES:

TYP. MANUFACTURED STONE VENEER ON WOOD STUD FRAMING WALL ASSEMBLY:
- MANUFACTURED STONE VENEER ANCHOR TO SHEATHING W/ TIES @ 16" O.C. VERT & 24" O.C. MAX TYP.
- AIR SPACE WITH DRAINAGE MAT
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
- WOOD STUD FRAMING @ 16" O.C. MAX TYP. FILLED w/ INSUL. (R-13). SEE SPECS.
- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

TYP. CEMENTITIOUS LAP SIDING ON WOOD FRAMING WALL ASSEMBLY:
- CEMENTITIOUS HORIZONTAL LAP SIDING ANCHORED TO SHEATHING
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- CEMENTITIOUS BATTEN TRIM @ 1'-4" O.C.
- CEMENTITIOUS VERTICAL PANELS ANCHORED TO SHEATHING
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
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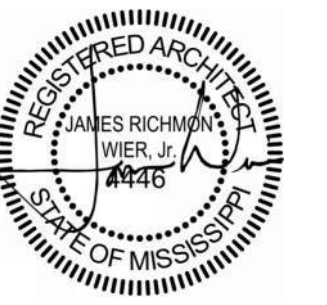
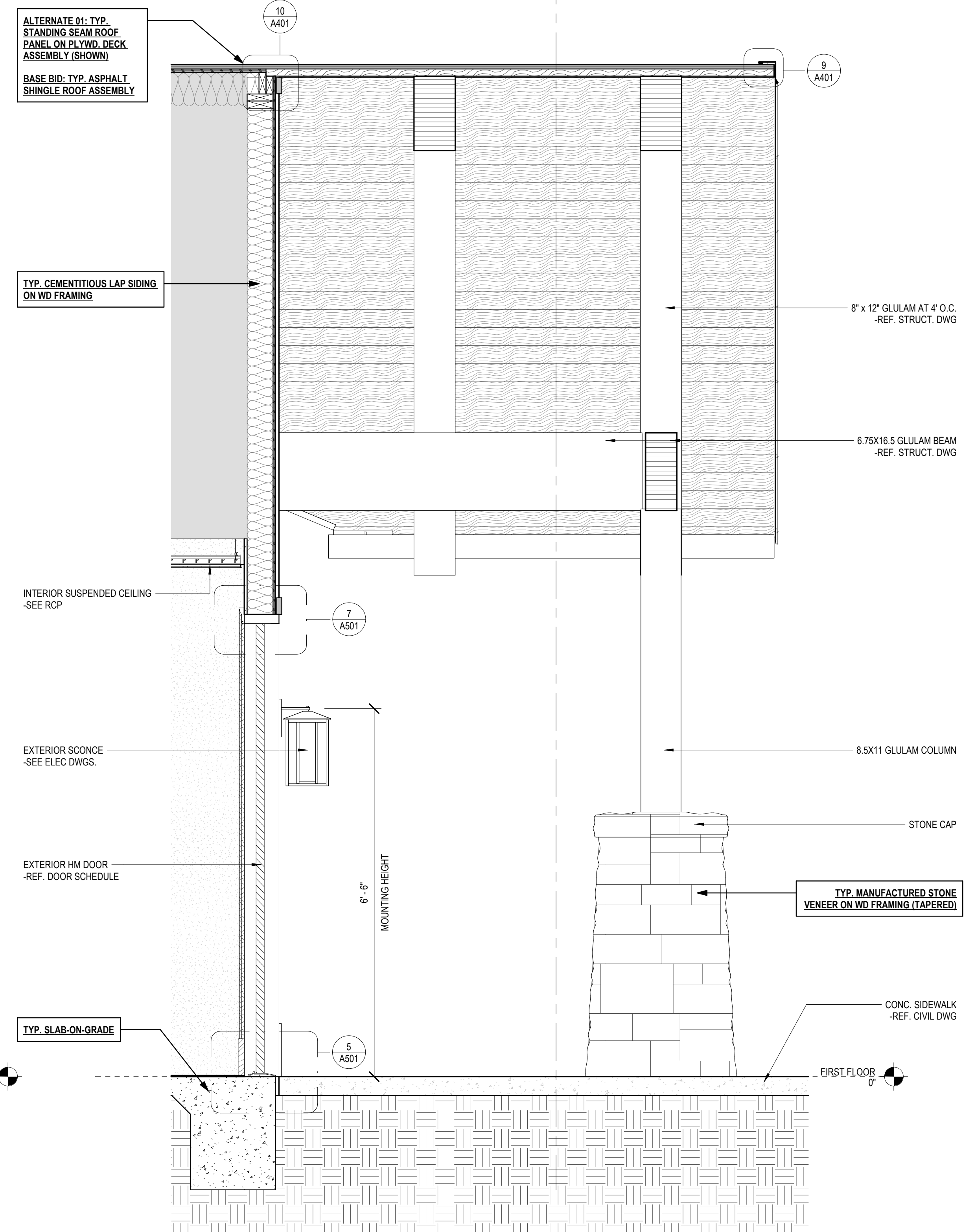
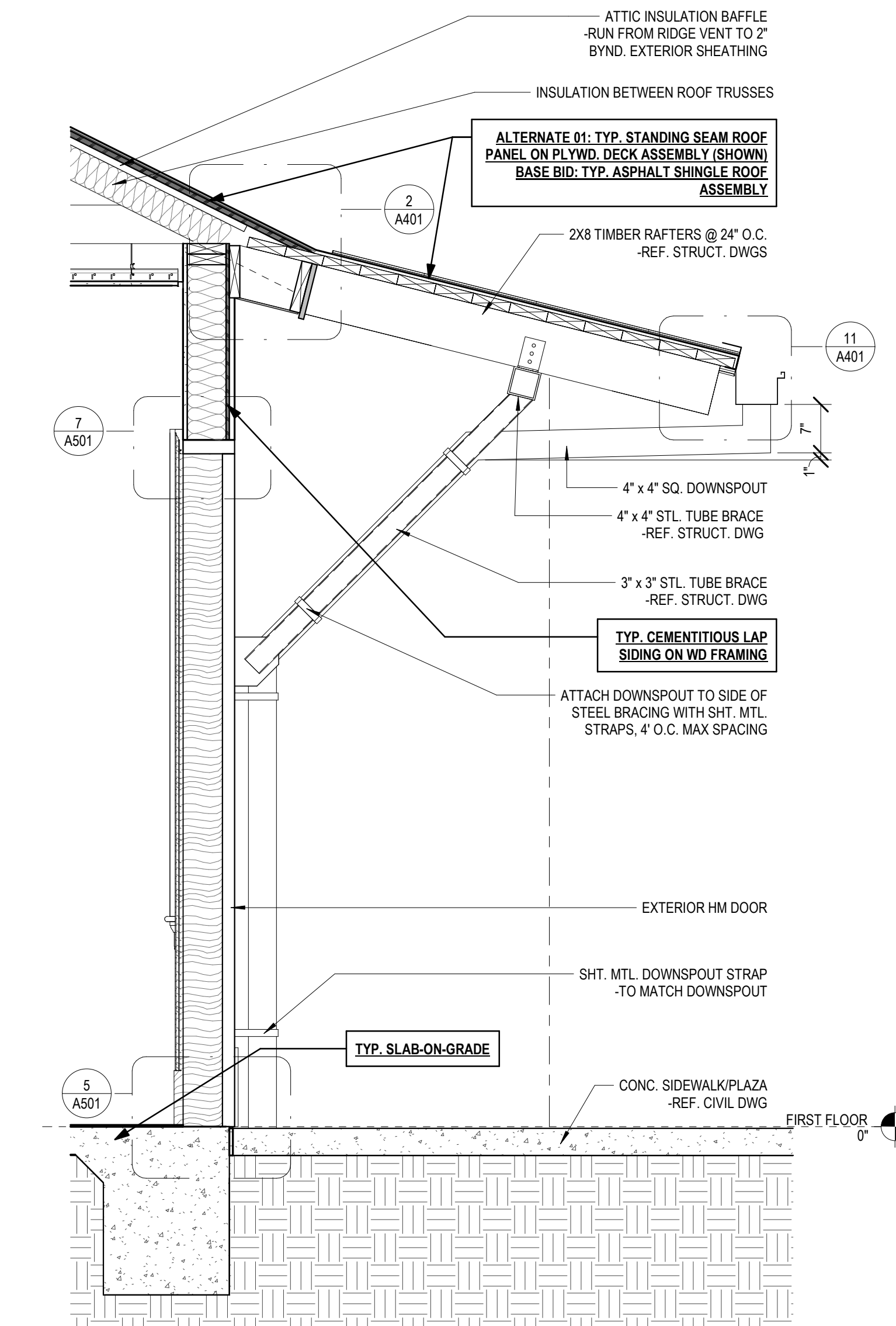
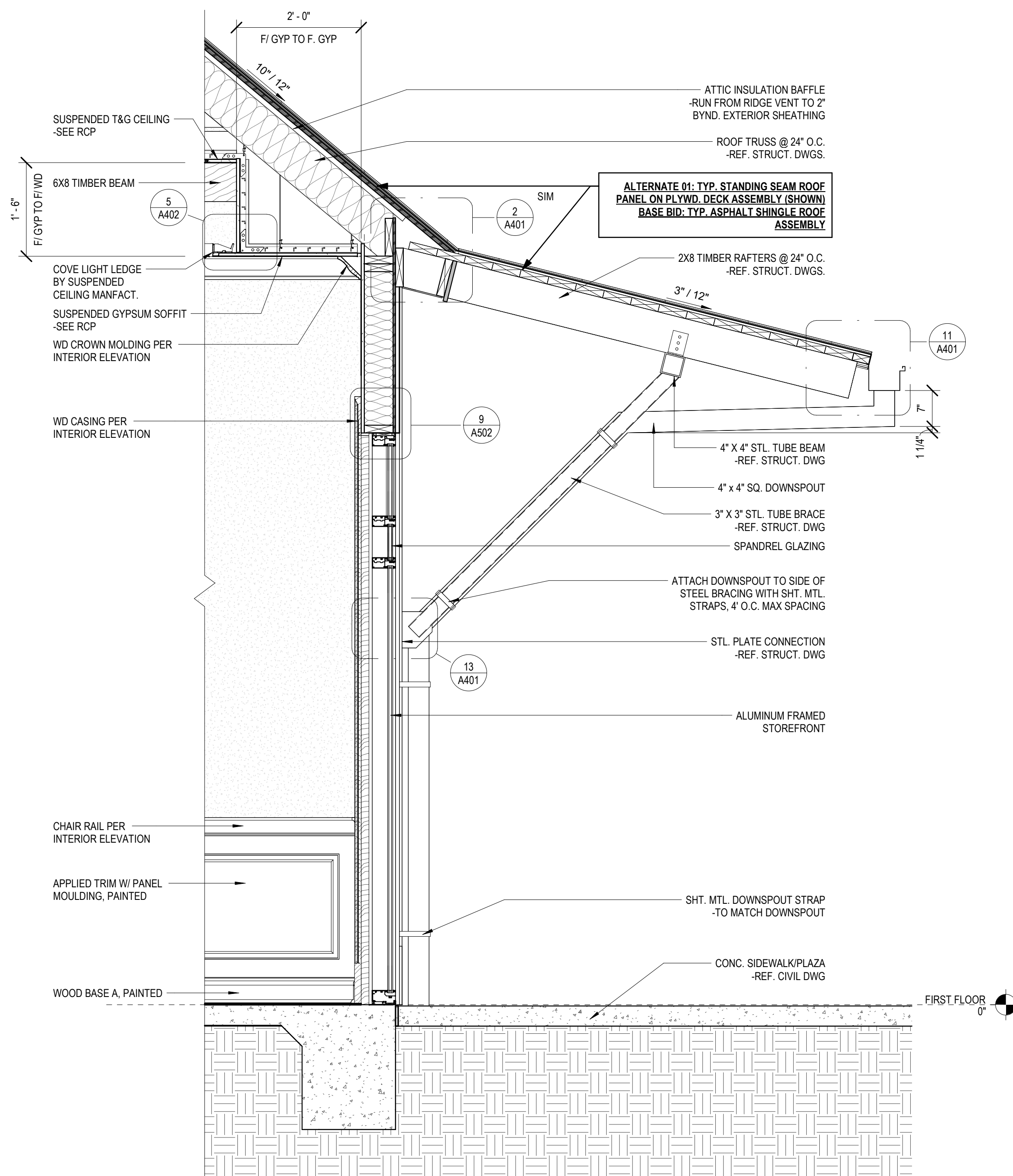
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FOUNDATION ASSEMBLIES:
TYP. SLAB-ON-GRADE ASSEMBLY
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- CONT. ROOF DECKING (SEE STRUCT.) w/ 1" CLIPS @ UNSUPPORTED EDGES @ 24" O.C. MAX TYP.

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- ROOFING UNDERLAYMENT
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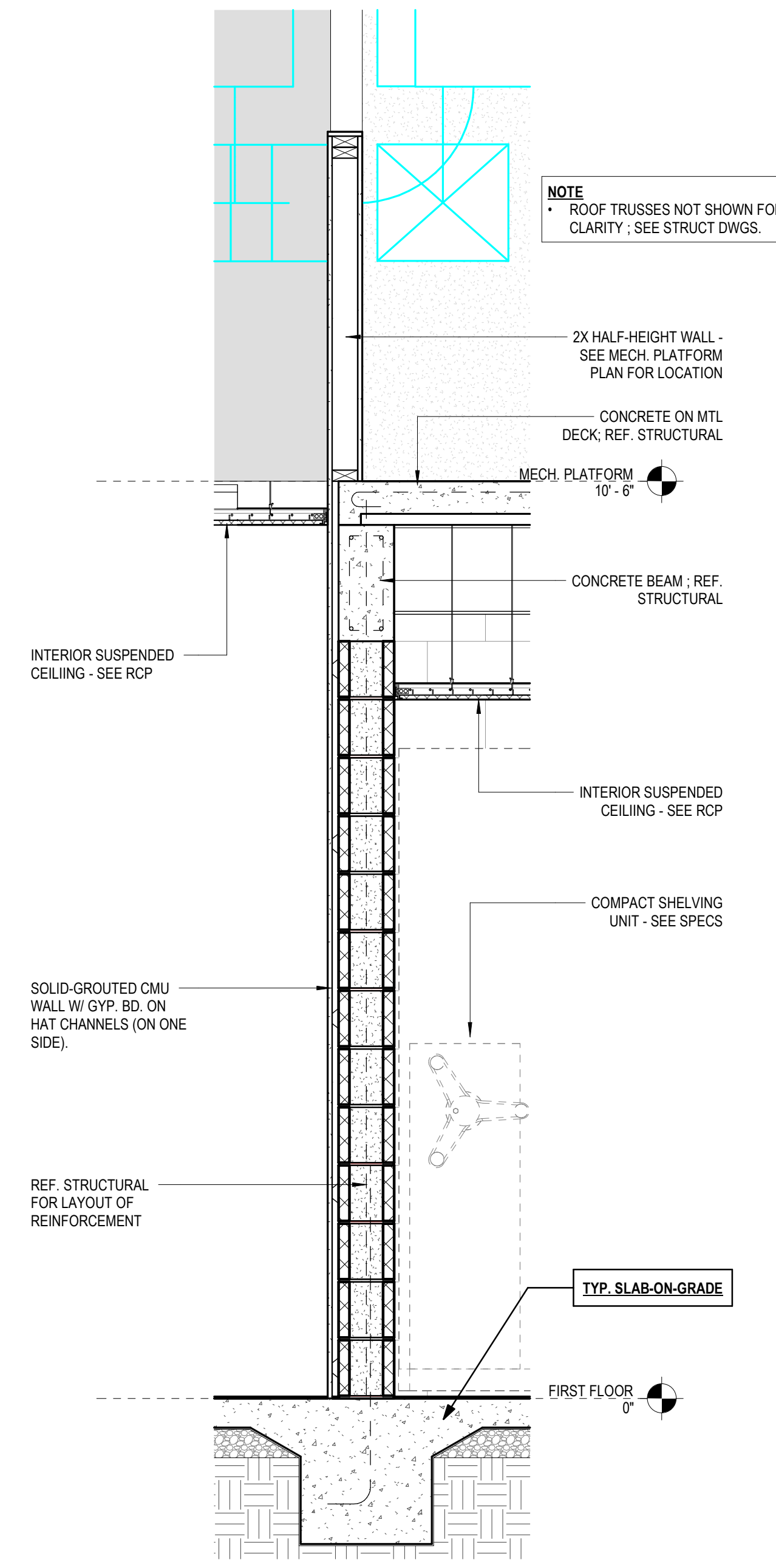
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WALLS ASSEMBLIES:

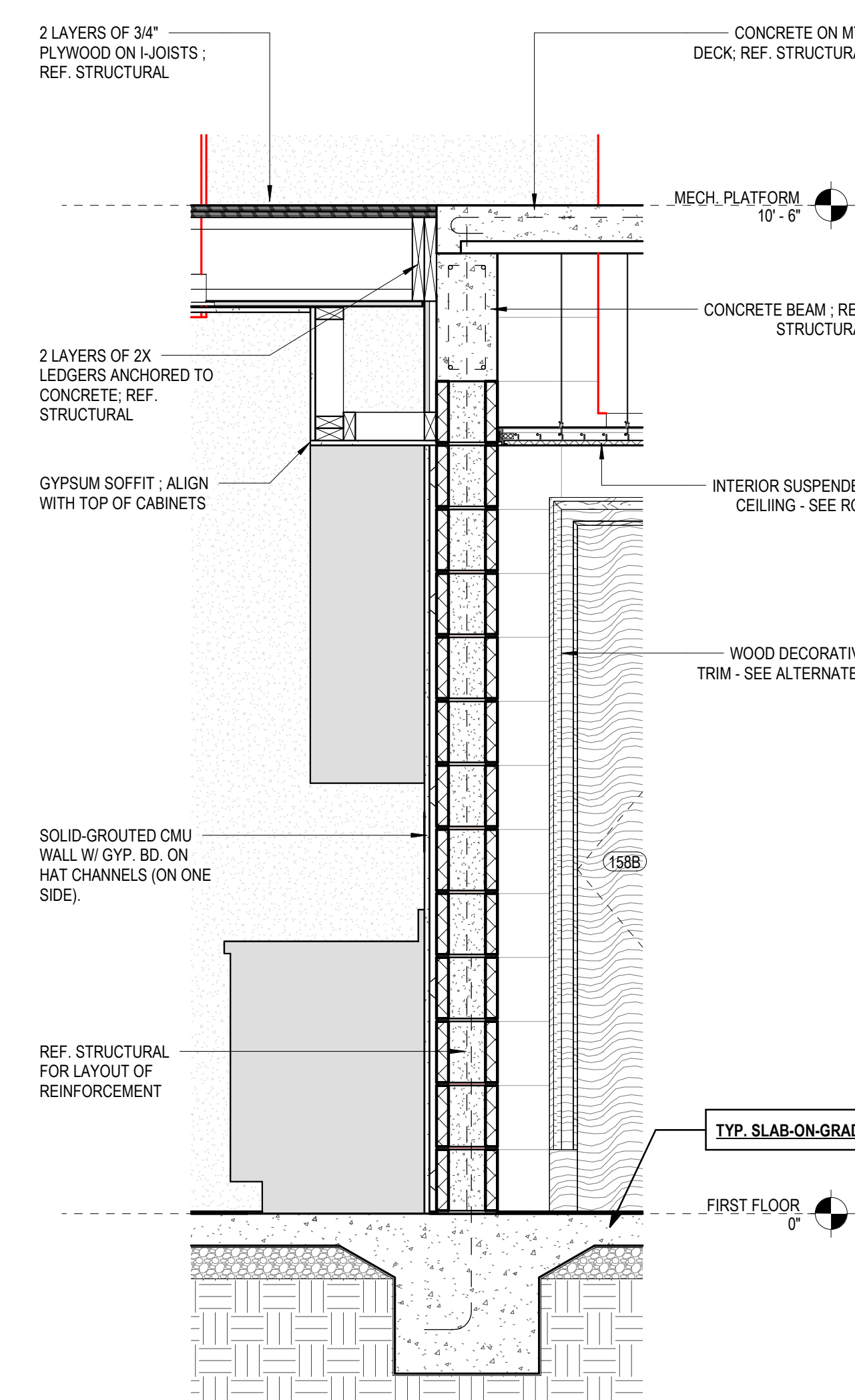
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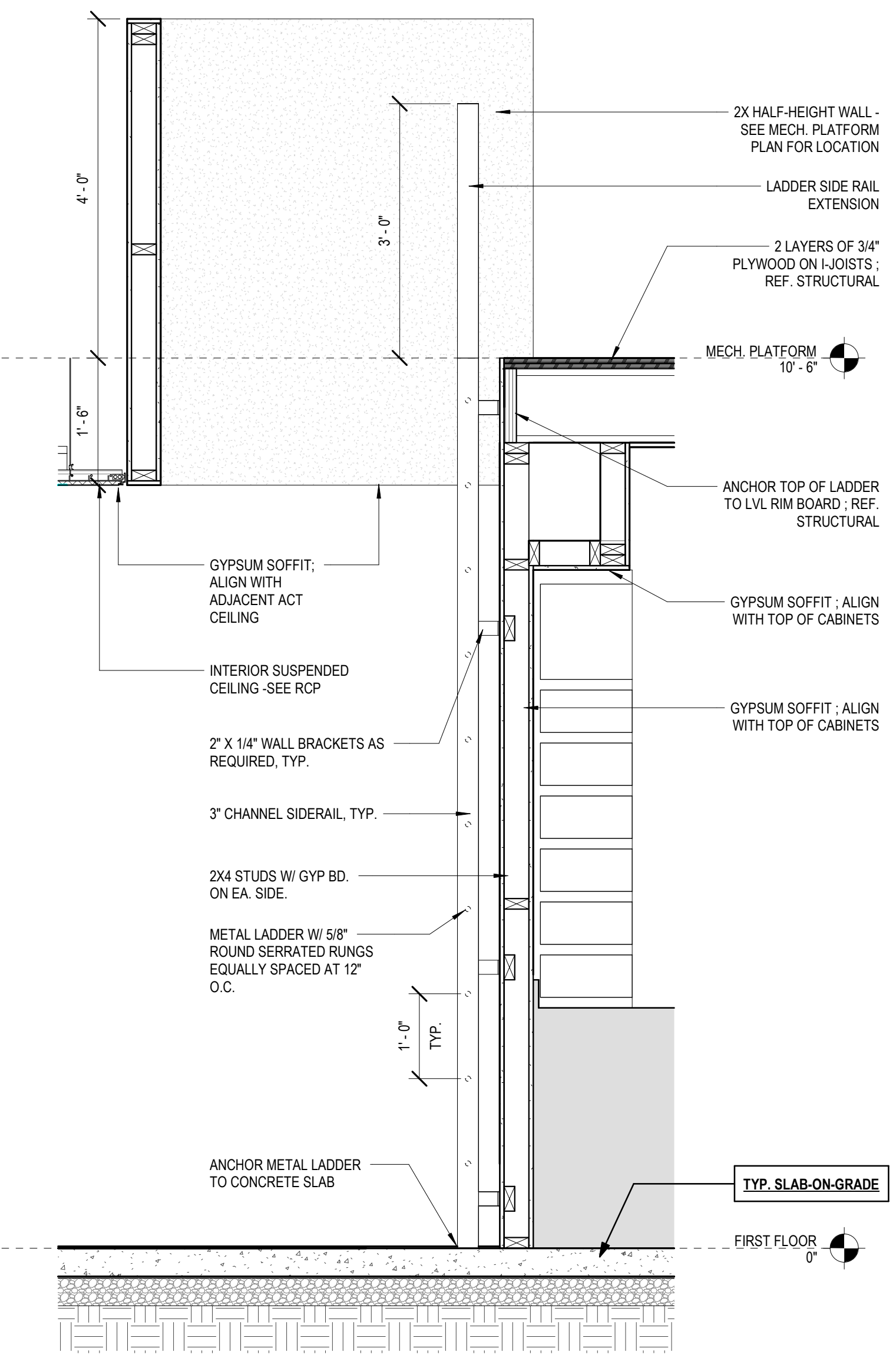
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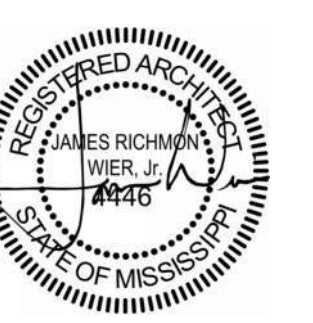
3 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



1 WALL SECTION
3/4" = 1'-0"



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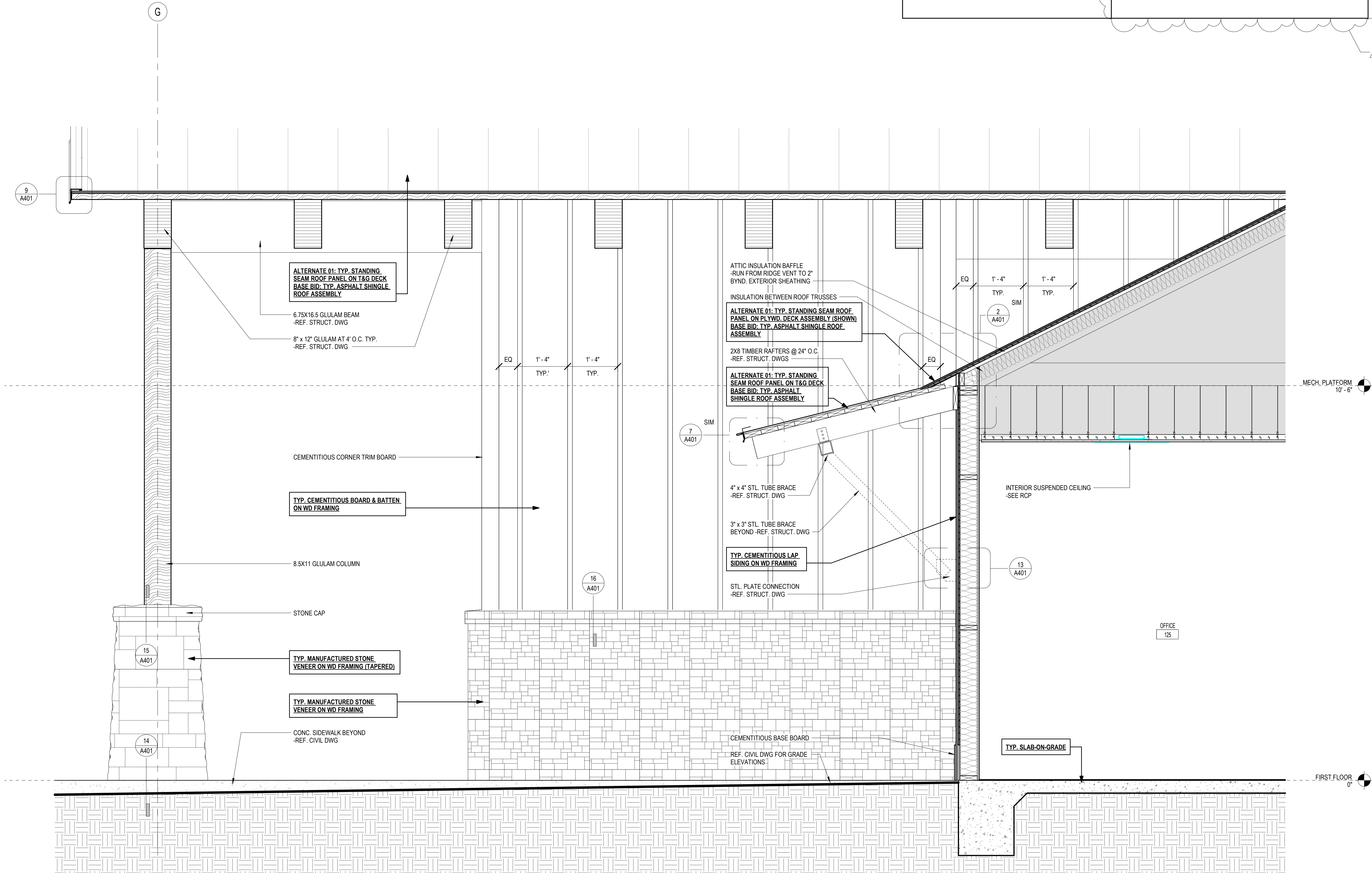
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- 5/8" GYPSUM BOARD
- OTHER INTERIOR FINISHES AS NOTED IN SCHEDULE

TYP. CEMENTITIOUS BOARD AND BATTEN SIDING ON WOOD FRAMING WALL ASSEMBLY:
- CEMENTITIOUS BATTEN TRIM @ 1'-4" O.C.
- CEMENTITIOUS VERTICAL PANELS ANCHORED TO SHEATHING
- ELASTOMERIC AIR BARRIER
- CONT. 1/2" PLYWOOD SHEATHING
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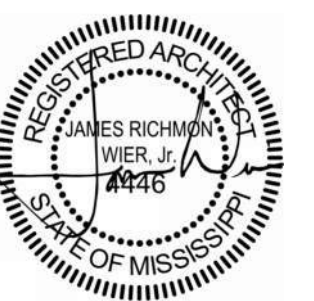


1 WALL SECTION
3/4" = 1'-0"



PEARL RIVER
VALLEY WATER
SUPPLY
DISTRICT MAIN
OFFICE

6018 Lakeshore Park
Brandon, MS 39047



06.21.24

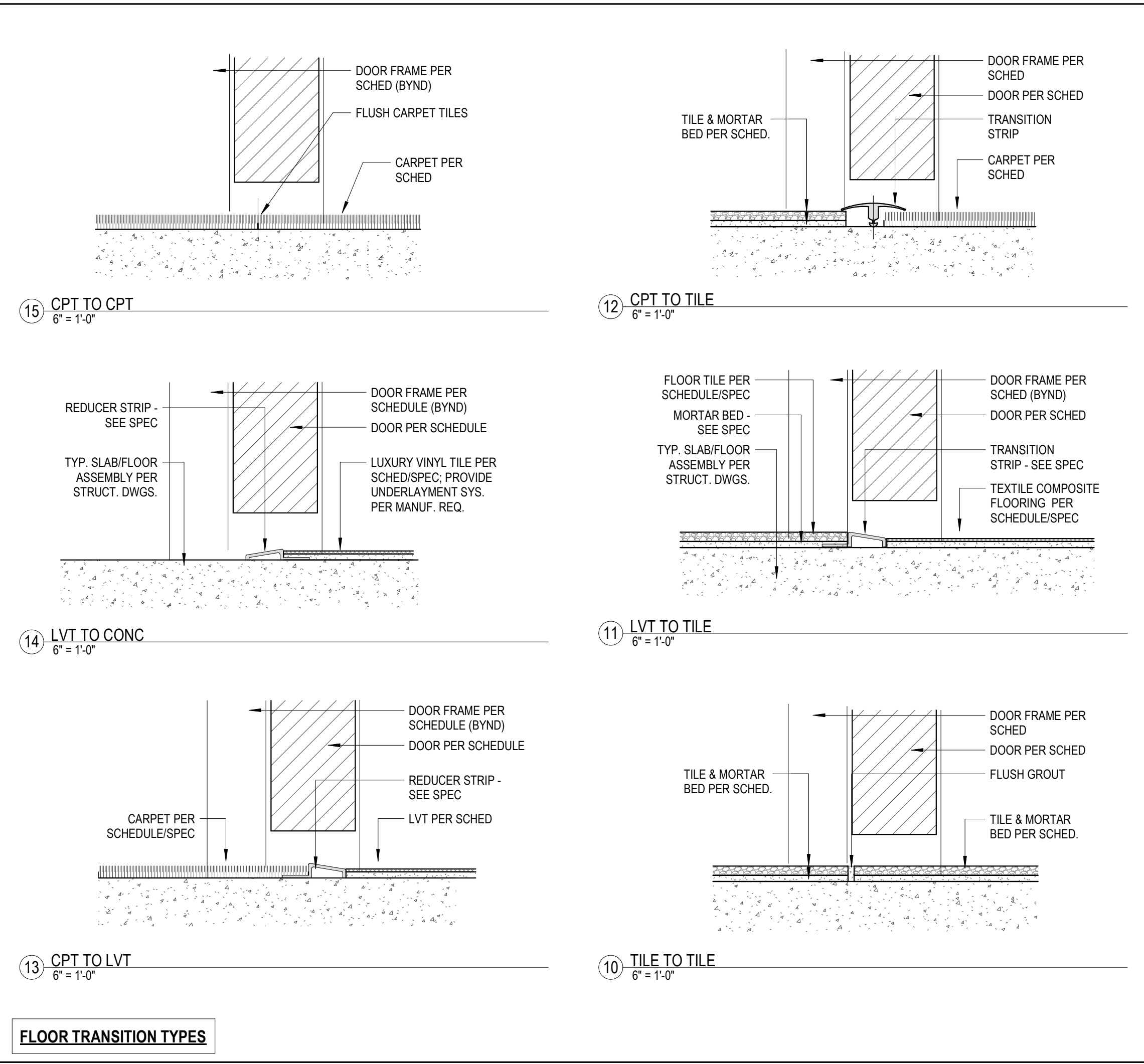
CONSTRUCTION
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REVISIONS
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1 Addendum 01 08/09/24

A304
WALL SECTIONS

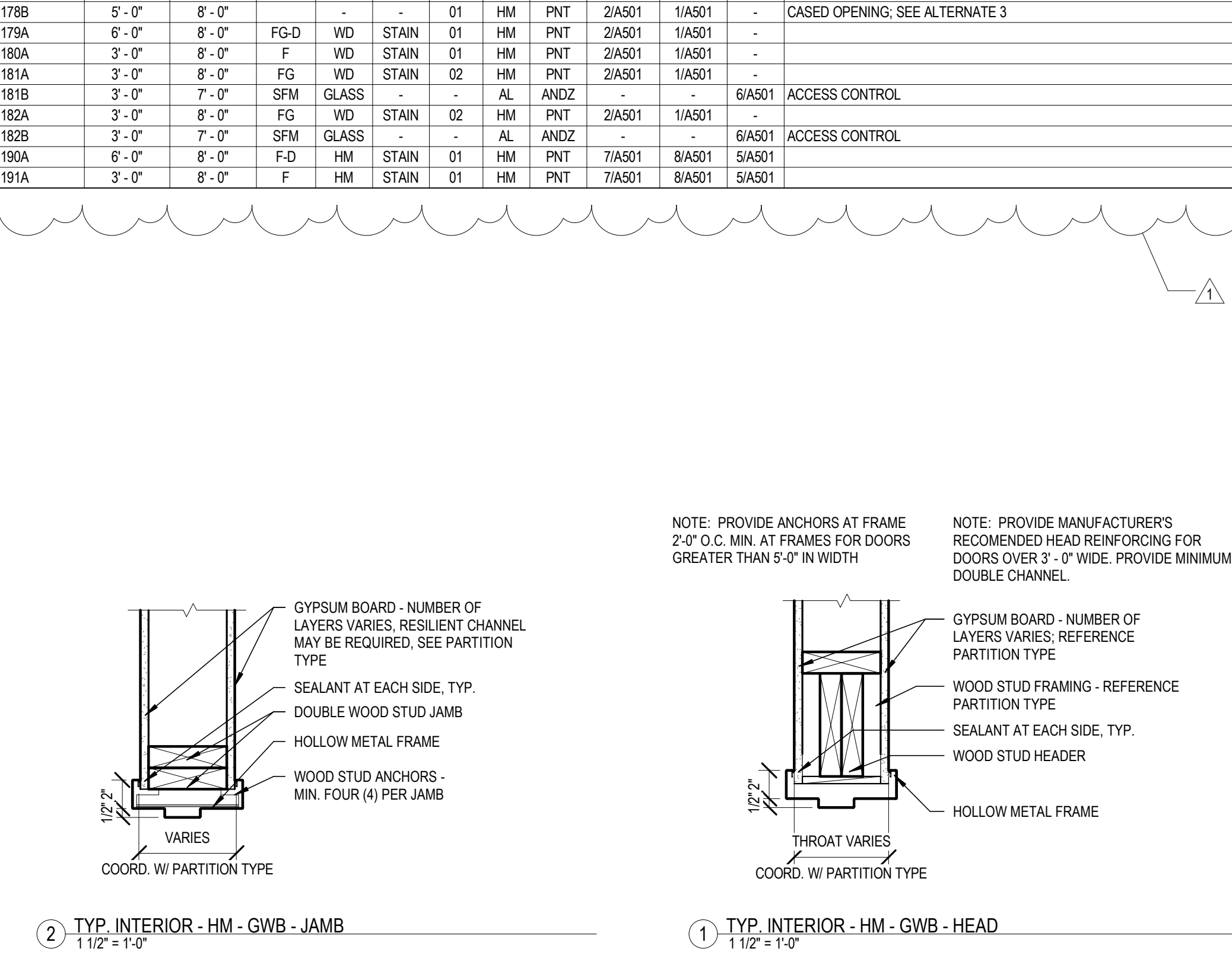
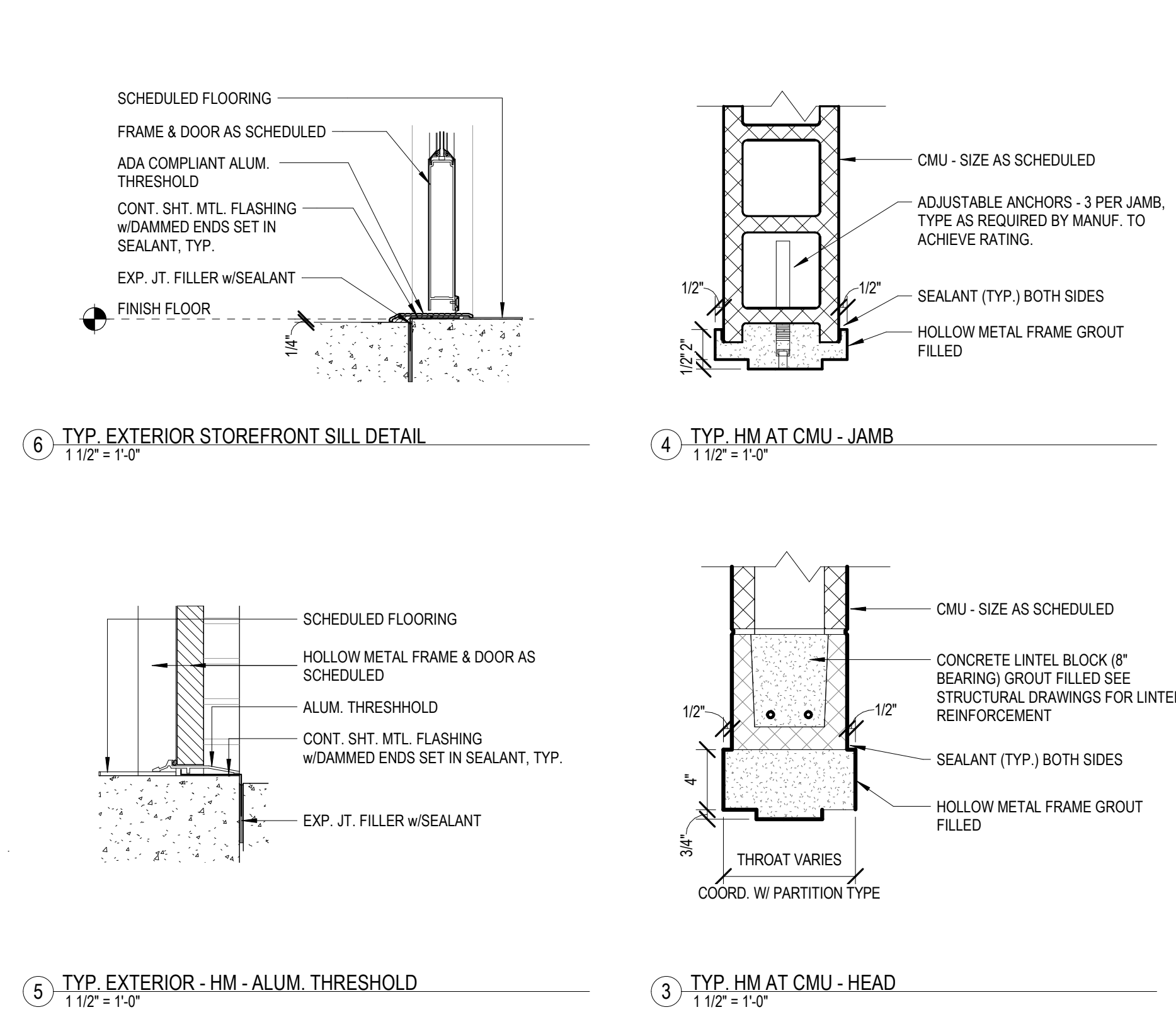
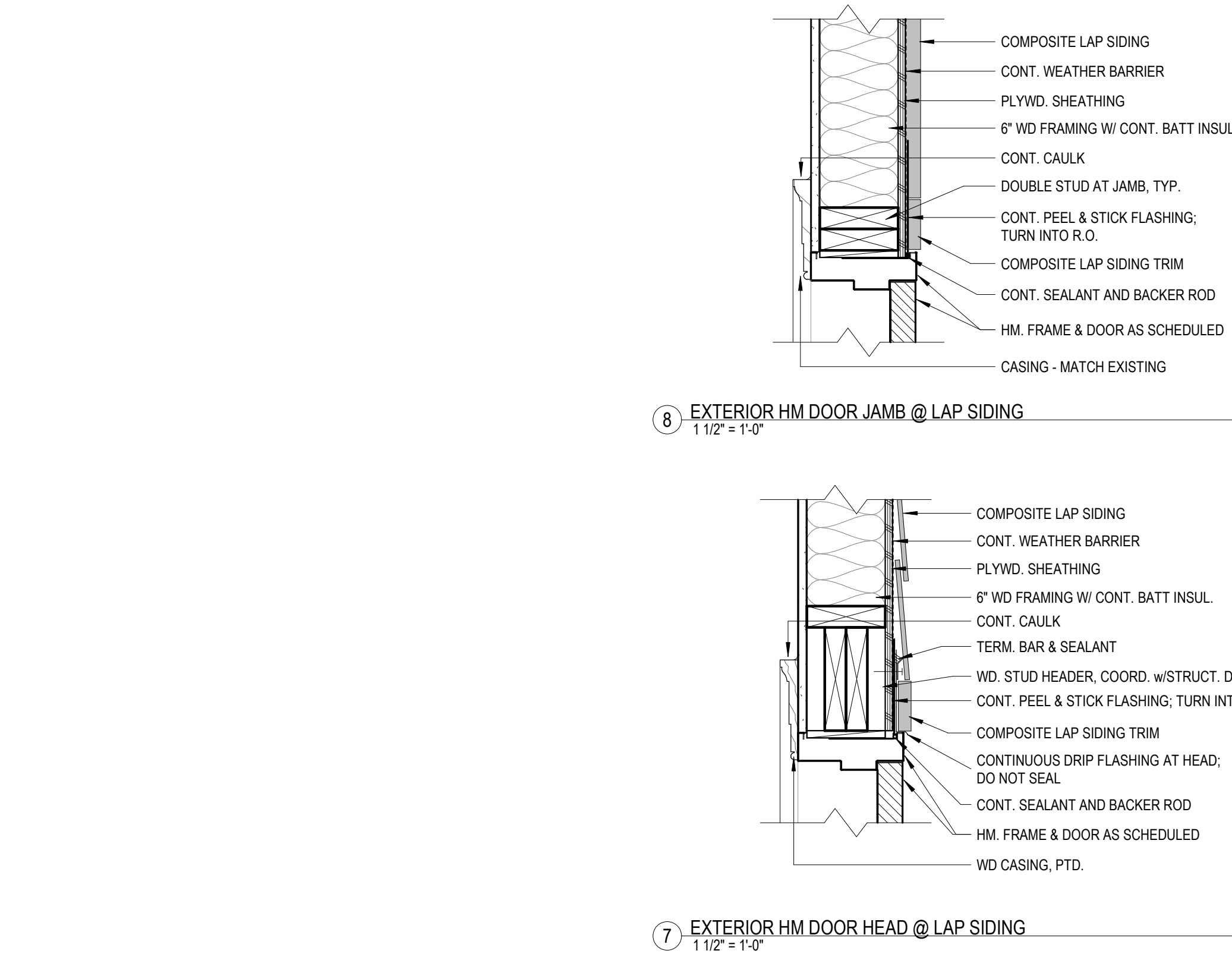
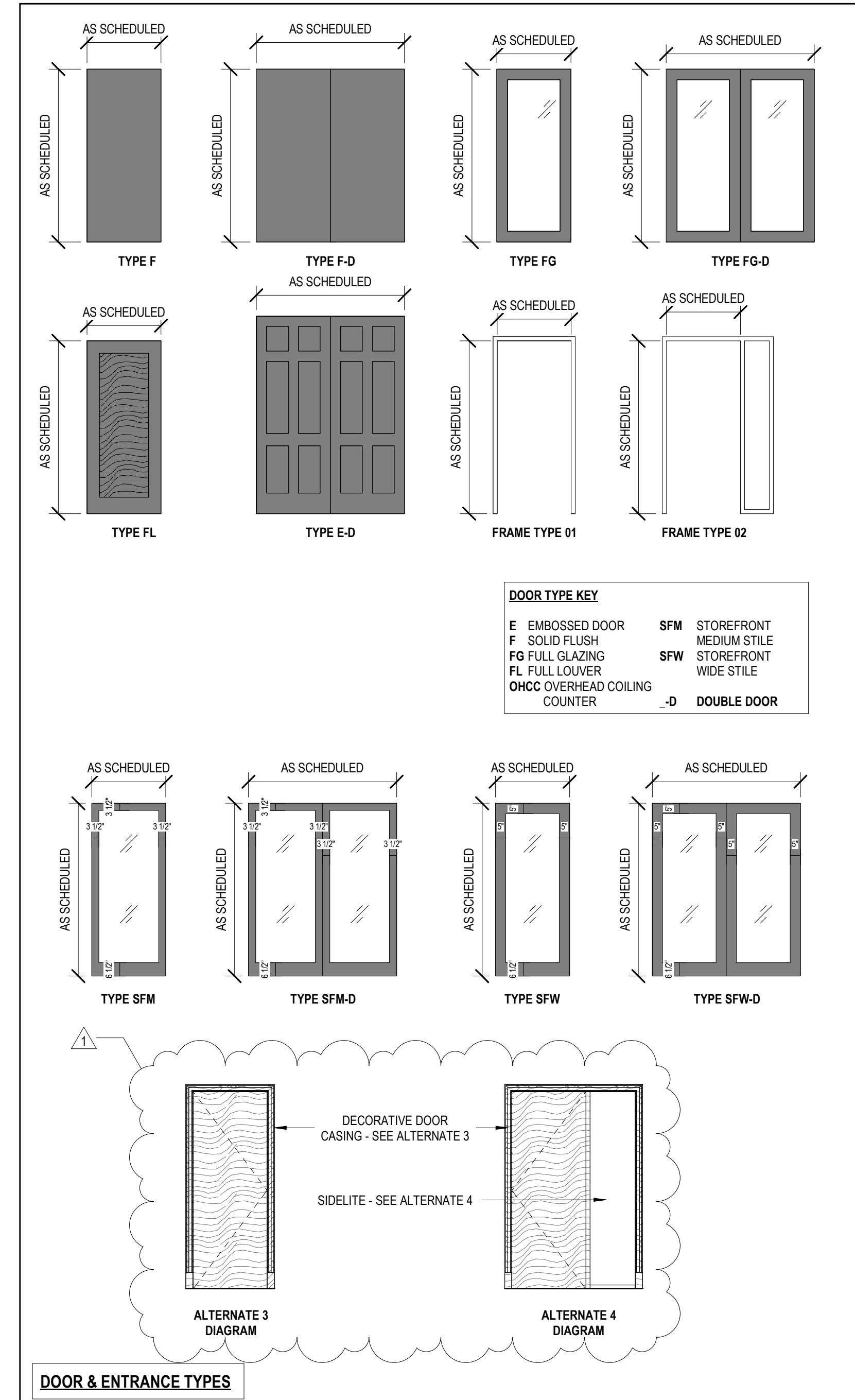
DOOR SCHEDULE

TAG	OPENING SIZE		DOOR				FRAME			REMARKS		
	WIDTH	HEIGHT	TYPE	MTL	FIN	TYPE	MTL	FIN	JAMB		HEAD	SILL
100A	6'-0"	8'-0"	SFW-D	GLASS	-	-	AL	ANDZ	-	-	6/A501	ACCESS CONTROL
100B	6'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING W/ TRIM
102A	6'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING W/ TRIM
103A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	ACCESS CONTROL; TRIM ON WORK AREA 103 SIDE AS ALTERNATE 3
103B	6'-10"	4'-0"	OHCC	MTL	-	-	-	-	-	-	-	METAL COILING COUNTER DOOR
104A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
105A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
106A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
107A	4'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING W/ TRIM
108A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
109A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
109B	2'-6"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
109C	3'-0"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
110A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
110B	2'-6"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
110C	3'-0"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
111A	2'-8"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	ACCESS CONTROL
112A	6'-0"	8'-0"	E-D	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	ACCESS CONTROL
112B	6'-0"	7'-0"	SFM-D	GLASS	-	-	AL	ANDZ	-	-	6/A501	ACCESS CONTROL
112C	6'-0"	7'-0"	SFM-D	GLASS	-	-	AL	ANDZ	-	-	6/A501	ACCESS CONTROL
113A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
114A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
115A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	ACCESS CONTROL; TRIM ON CATERING KITCHEN SIDE AS ALTERNATE 3
115B	3'-0"	8'-0"	F	HM	STAIN	01	HM	PNT	7/A501	8/A501	5/A501	ACCESS CONTROL; TRIM ON CATERING KITCHEN SIDE AS ALTERNATE 3
115C	5'-0"	5'-3 1/2"	OHCC	MTL	-	-	-	-	-	-	-	METAL COILING COUNTER DOOR
115D	4'-0"	8'-0"	-	-	-	-	-	-	-	-	-	WALL OPENING
116A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	5/A501	SEE ALTERNATE 3
120A	6'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING W/ TRIM
121A	6'-10"	4'-0"	OHCC	MTL	-	-	-	-	-	-	-	METAL COILING COUNTER DOOR
122A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
123A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
124A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	ACCESS CONTROL; TRIM ON COLLABORATION SPACE SIDE AS ALTERNATE 3
125A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
126A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
131A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
132A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
133A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
134A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
135A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
136A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
140A	6'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING; SEE ALTERNATE 3
141A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
142A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
143A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
144A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
144B	4'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING; SEE ALTERNATE 3
145A	3'-0"	8'-0"	F	HM	STAIN	01	HM	PNT	7/A501	8/A501	5/A501	ACCESS CONTROL; TRIM ON CORRIDOR SIDE AS ALTERNATE 3
150A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
151A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
152A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
153A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
153B	3'-0"	8'-0"	SFM	GLASS	-	-	AL	ANDZ	-	-	-	SEE ALTERNATE 3
154A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
155A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
156A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
157A	5'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING; SEE ALTERNATE 3
157B	5'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING; SEE ALTERNATE 3
158A	3'-0"	7'-2"	F	WD	STAIN	01	HM	PNT	4/A501	3/A501	5/A501	ACCESS CONTROL; SEE ALTERNATE 3
158B	3'-0"	7'-2"	F	WD	STAIN	01	HM	PNT	4/A501	3/A501	5/A501	ACCESS CONTROL; SEE ALTERNATE 3
159A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
159B	2'-6"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
159C	3'-0"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
160A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
160B	2'-6"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
160C	3'-0"	8'-0"	FL	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
170A	3'-0"	8'-0"	F	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
171A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
172A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
173A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
174A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
175A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
176A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3 & 4
177A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	SEE ALTERNATE 3
178A	5'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING W/ TRIM
178B	5'-0"	8'-0"	-	-	-	01	HM	PNT	2/A501	1/A501	-	CASED OPENING; SEE ALTERNATE 3
179A	6'-0"	8'-0"	FG-D	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
180A	3'-0"	8'-0"	F	WD	STAIN	01	HM	PNT	2/A501	1/A501	-	-
181A	3'-0"	8'-0"	FG	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	-
181B	3'-0"	7'-0"	SFM	GLASS	-	-	AL	ANDZ	-	-	6/A501	ACCESS CONTROL
182A	3'-0"	8'-0"	FG	WD	STAIN	02	HM	PNT	2/A501	1/A501	-	-
182B	3'-0"	7'-0"	SFM	GLASS	-	-	AL	ANDZ	-	-	6/A501	ACCESS CONTROL
190A	6'-0"	8'-0"	F-D	HM	STAIN	01	HM	PNT	7/A501	8/A501	5/A501	-
191A	3'-0"	8'-0"	F	HM	STAIN	01	HM	PNT	7/A501	8/A501	5/A501	-



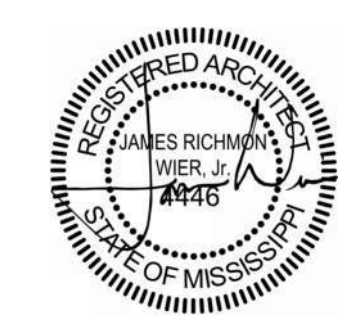
FLOOR TRANSITION TYPES

GENERAL NOTE:
ALTERNATES SHOWN IN APPLICABLE VIEWS TYPICAL. SEE SECTION 01.2300 FOR DESCRIPTION OF ALTERNATES



NOTE: PROVIDE ANCHORS AT FRAME 2'-0" O.C. MIN. AT FRAMES FOR DOORS GREATER THAN 5'-0" IN WIDTH

NOTE: PROVIDE MANUFACTURER'S RECOMMENDED HEAD REINFORCING FOR DOORS OVER 3'-0" WIDE. PROVIDE MINIMUM DOUBLE CHANNEL.



GENERAL NOTE:
ALTERNATES SHOWN IN APPLICABLE VIEWS TYPICAL. SEE SECTION 01.2300 FOR DESCRIPTION OF ALTERNATES

FINISH PLAN LEGEND

	FLOOR MATERIAL TRANSITION, SEE DETAILS		PFT-1
	CPT-1		CONC-1
	CPT-2		

FINISH PLAN GENERAL NOTES

- SCHLUTER DECO W/ BRUSHED ANTIQUE BRONZE FINISH AT TILE TO CPT TRANSITIONS
- SCHLUTER RENO-U W/ BRUSHED ANTIQUE BRONZE FINISH AT CPT TO CONC TRANSITIONS
- SCHLUTER RENO-U W/ BRUSHED ANTIQUE BRONZE FINISH AT TILE TO CONC TRANSITIONS
- ALL CONC FLOORS TO BE SCORED ON GRID UNLESS OTHERWISE NOTED

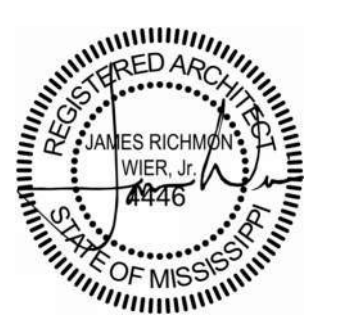


PEARL RIVER VALLEY WATER SUPPLY DISTRICT MAIN OFFICE

6018 Lakeshore Park
Brandon, MS 39047



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



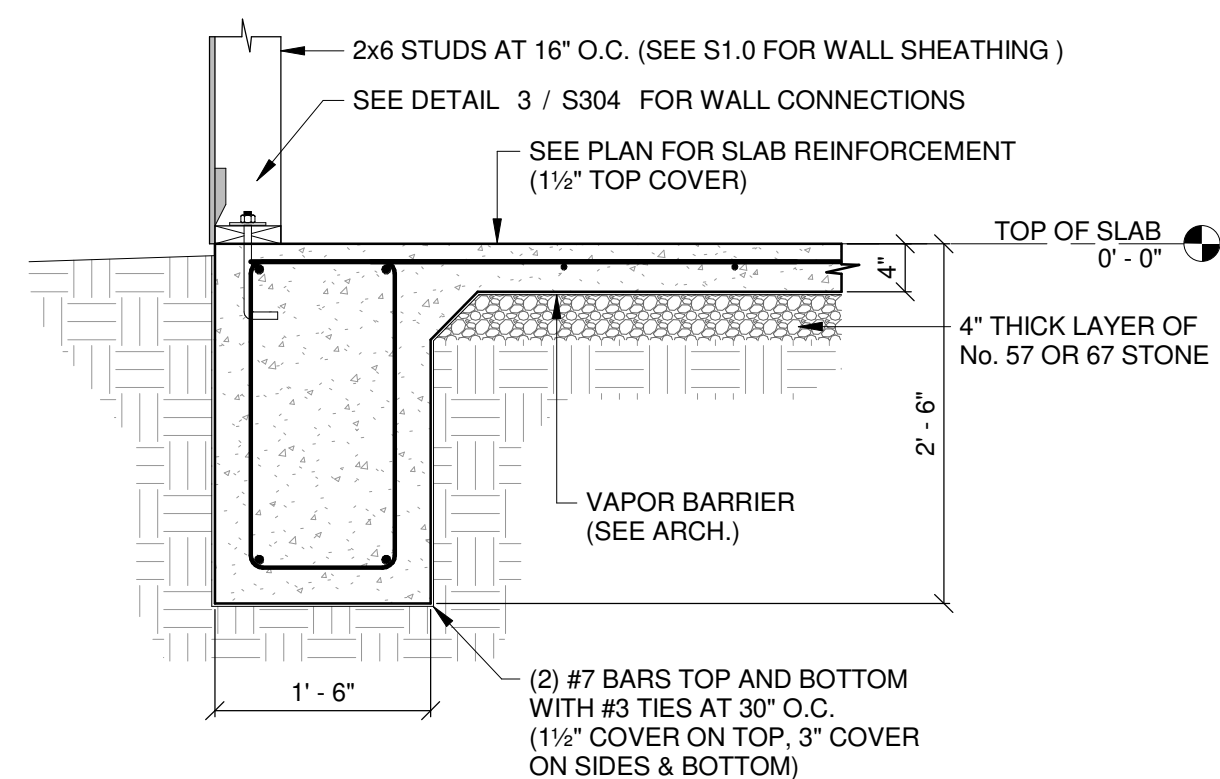
06.21.24

CONSTRUCTION DOCUMENTS
WBA # 23-072

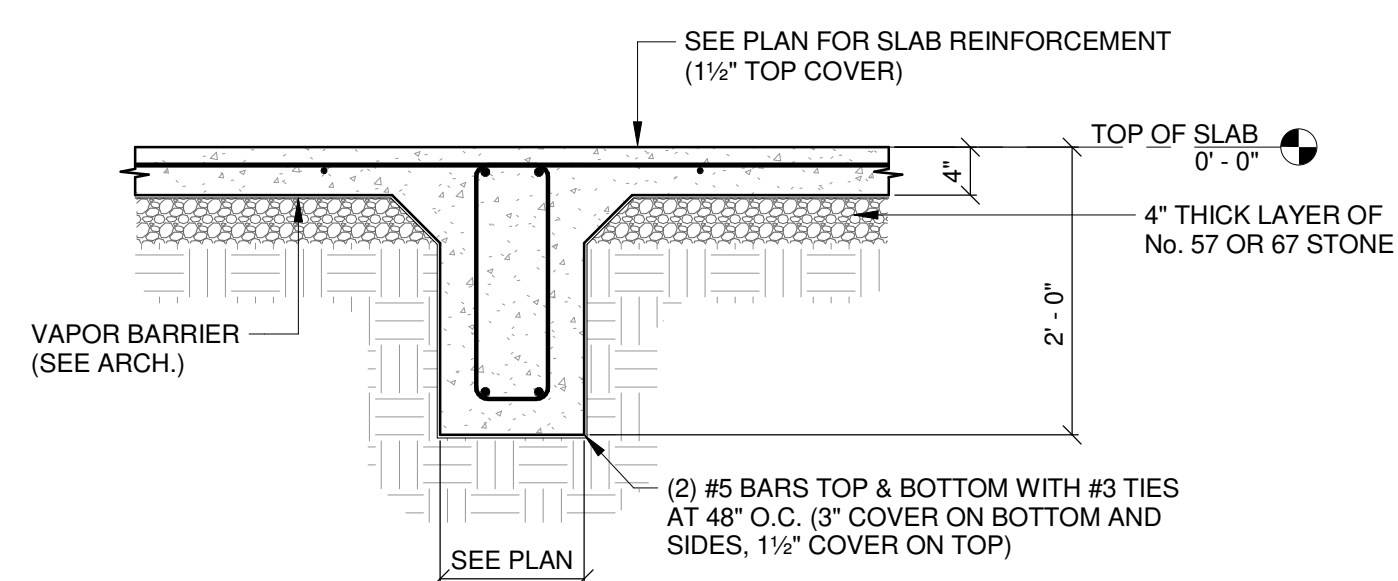
REVISIONS

NO.	DESCRIPTION	DATE
1	Addendum 01	08/09/24

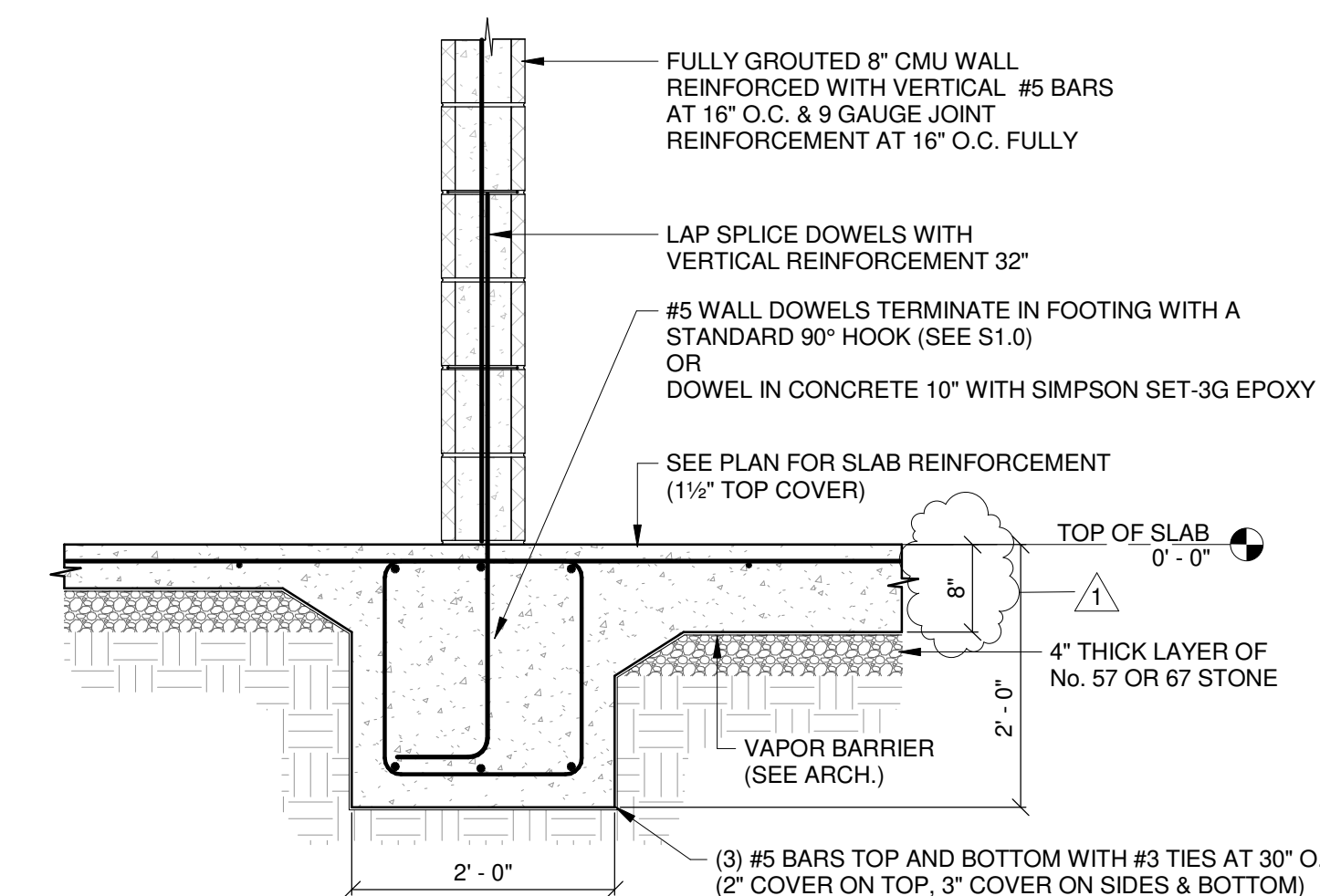




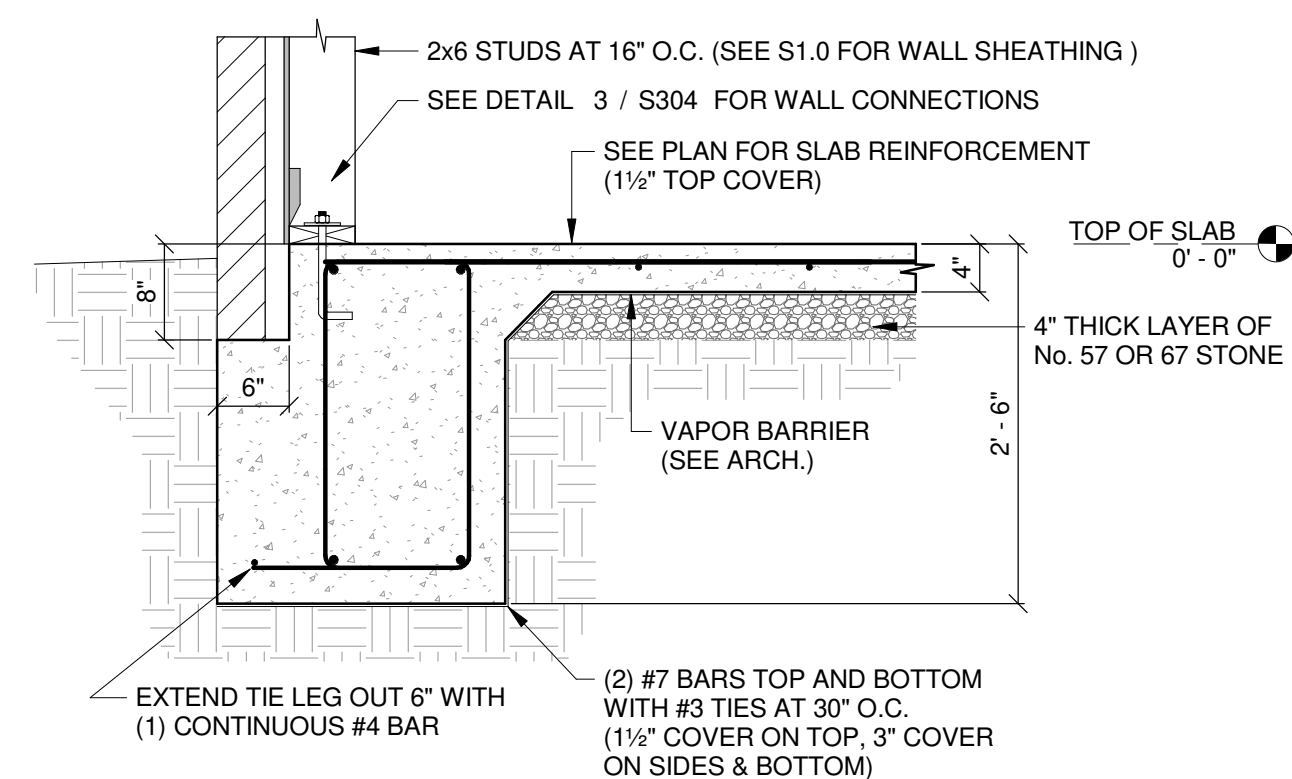
1
S300 EXTERIOR GRADE BEAM SECTION
3/4" = 1'-0"



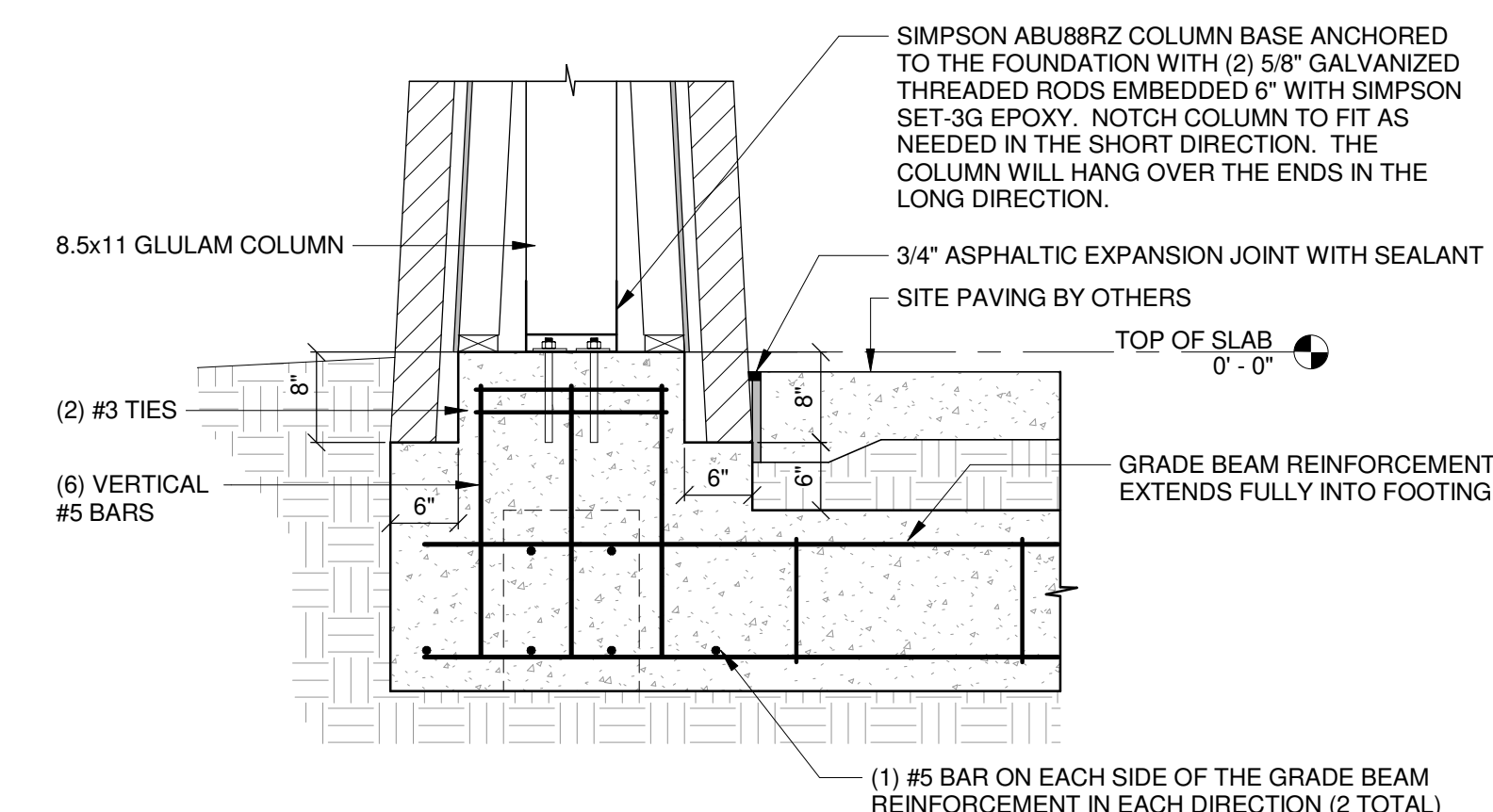
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S300 INTERIOR GRADE BEAM SECTION
3/4" = 1'-0"



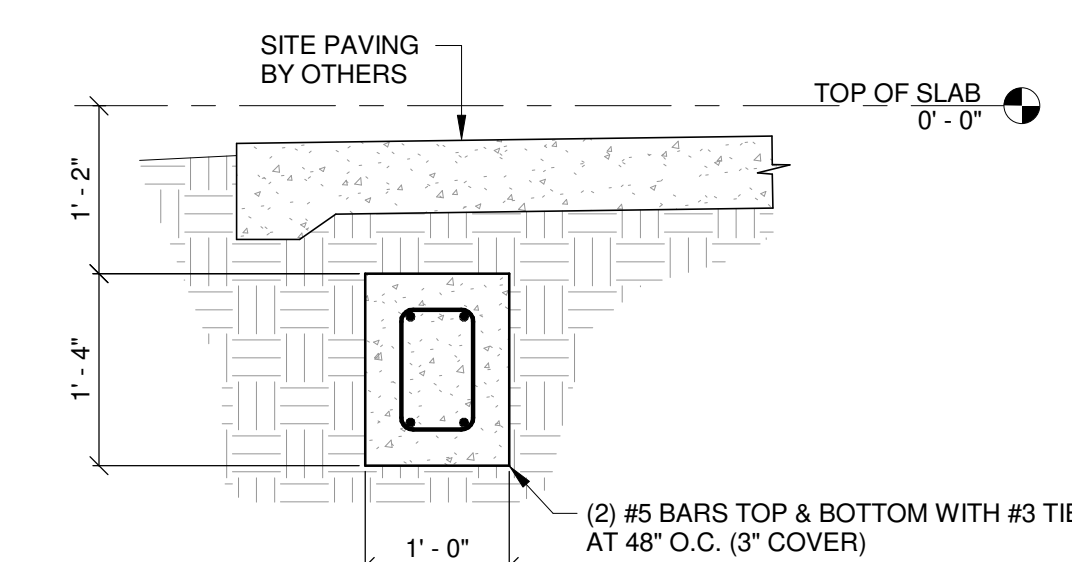
3
S300 INTERIOR GRADE BEAM DETAIL AT CMU WALL
3/4" = 1'-0"



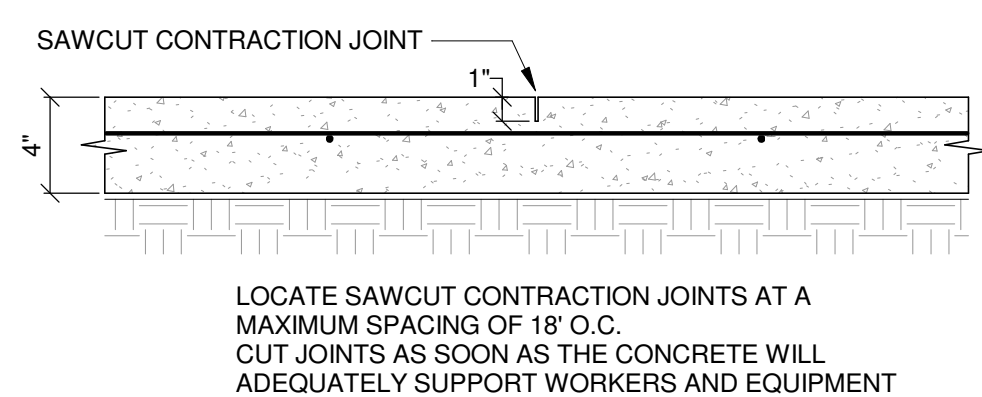
4
S300 EXTERIOR GRADE BEAM WITH LEDGE
3/4" = 1'-0"



5
S300 PORCH COLUMN FOOTING SECTION
3/4" = 1'-0"

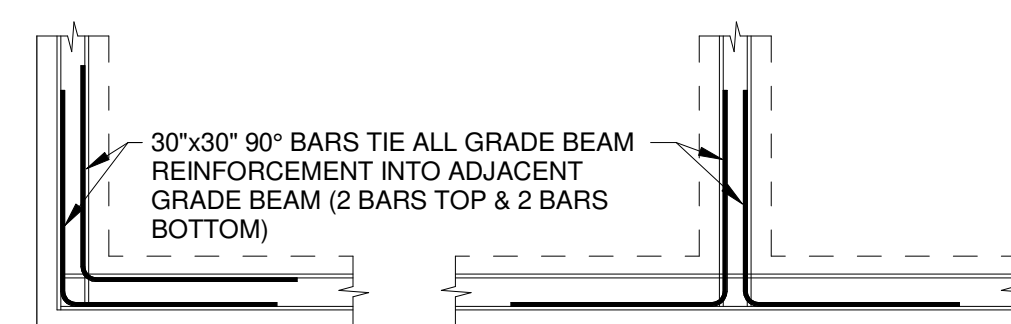


6
S300 PORCH GRADE BEAM
3/4" = 1'-0"

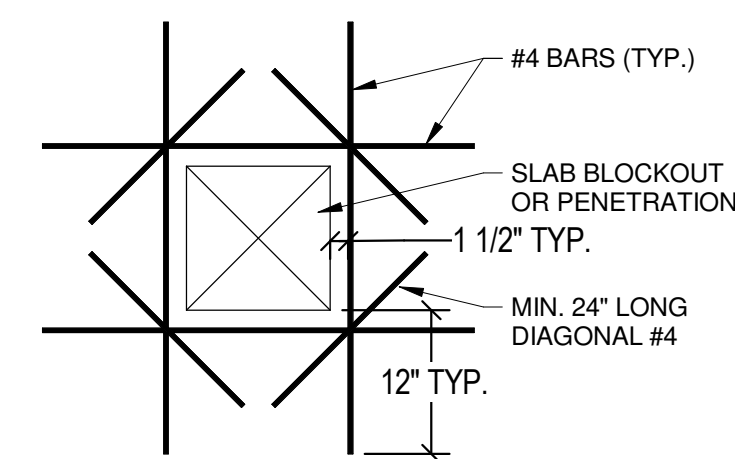


7
S300 SAWCUT CONTRACTION JOINT
1 1/2" = 1'-0"

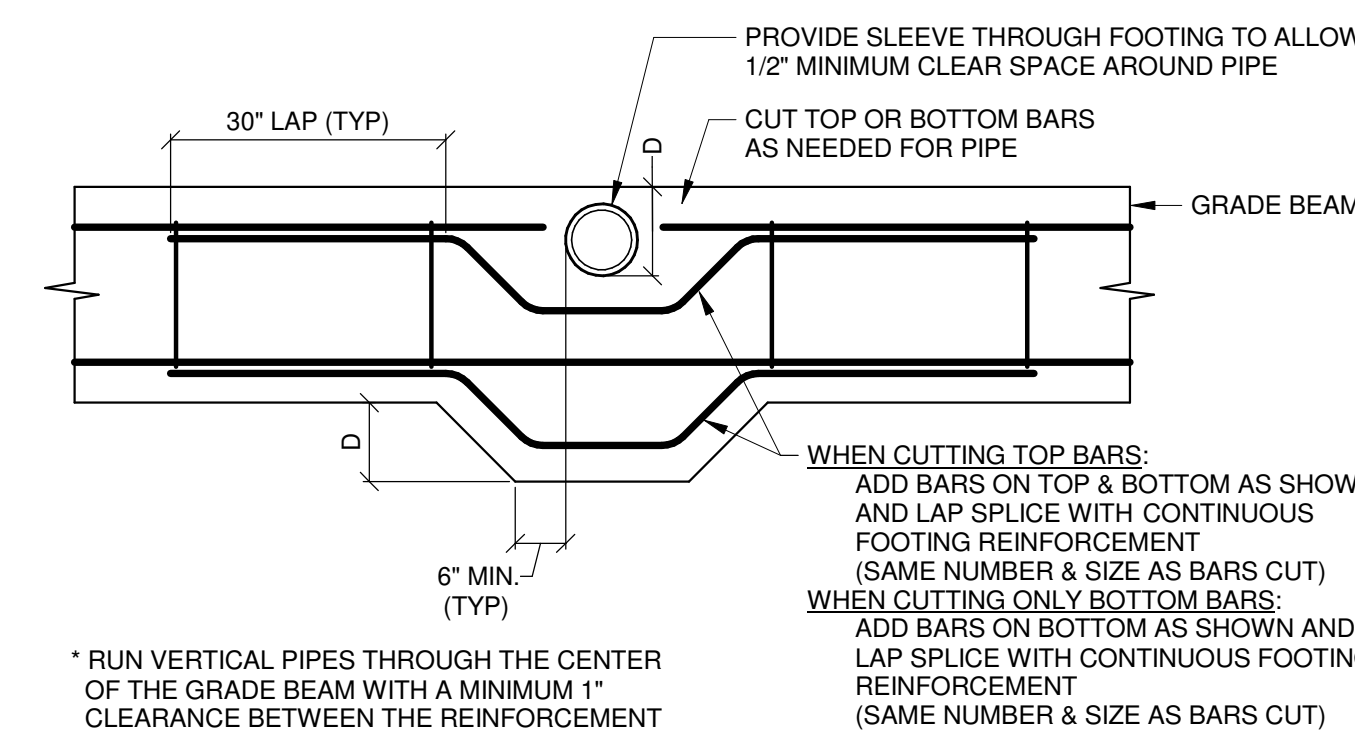
LOCATE SAWCUT CONTRACTION JOINTS AT A
MAXIMUM SPACING OF 18' O.C.
CUT JOINTS AS SOON AS THE CONCRETE WILL
ADEQUATELY SUPPORT WORKERS AND EQUIPMENT



8
S300 GRADE BEAM INTERSECTION DETAIL
3/8" = 1'-0"



9
S300 SLAB PENETRATION DETAIL
3/4" = 1'-0"



10
S300 PLUMBING PENETRATION DETAIL
3/4" = 1'-0"

* RUN VERTICAL PIPES THROUGH THE CENTER
OF THE GRADE BEAM WITH A MINIMUM 1"
CLEARANCE BETWEEN THE REINFORCEMENT

PROVIDE SLEEVE THROUGH FOOTING TO ALLOW
1/2" MINIMUM CLEAR SPACE AROUND PIPE

CUT TOP OR BOTTOM BARS
AS NEEDED FOR PIPE

WHEN CUTTING TOP BARS:
ADD BARS ON TOP & BOTTOM AS SHOWN
AND LAP SPlice WITH CONTINUOUS
FOOTING REINFORCEMENT
(SAME NUMBER & SIZE AS BARS CUT)

WHEN CUTTING ONLY BOTTOM BARS:
ADD BARS ON BOTTOM AS SHOWN AND
LAP SPlice WITH CONTINUOUS FOOTING
REINFORCEMENT
(SAME NUMBER & SIZE AS BARS CUT)



06.21.24

CONSTRUCTION
DOCUMENTS
WBA # 23-072

REVISIONS		
NO.	DESCRIPTION	DATE
1	Addendum 01	8/9/24

GAS FURNACE / COOLING COIL UNIT SCHEDULE

TAG	MANUFACTURER	NOMINAL TONS	SUPPLY FAN					CONDENSING FURNACE				DX COOLING COIL		AIR FILTER			OPER WT (LBS)	REMARKS
			SUPPLY CFM	OA CFM	ESP	ELECTRICAL HP	VOLT/Ø	CAP (MBH) IN	OUT	AFUE	MODEL NO	MODEL NO	TYPE	DEPTH	MERV			
GF-1	TRANE	4	1400	140	0.5	1	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-2	TRANE	4	1400	140	0.5	1	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-3	TRANE	3	1050	120	0.5	3/4	120 / 1	60	58	96%	S9X2B06U4PSB	4TXCB004DS3	THROW AWAY	1"	8	185	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-4	TRANE	5	1750	200	0.5	1.0	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	260	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-5	TRANE	5	1750	200	0.5	1.0	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	260	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-6	TRANE	4	1400	140	0.5	1	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-7	TRANE	4	1400	140	0.5	1	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-8	TRANE	5	1750	200	0.5	1.0	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-9	TRANE	4	1400	140	0.5	1	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-10	TRANE	5	1750	200	0.5	1.0	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	
GF-11	TRANE	4	1400	140	0.5	1	120 / 1	100	97	96%	S9X2C100U5PSB	4TXCC007DS3	THROW AWAY	1"	8	250	PROVIDE WITH CONCENTRIC VENT KIT, 2-STAGE CONDENSING GAS HEAT, CONDENSATE NEUTRALIZATION TRAP, FILTER RACK, AND WIFI TRANE PIVOT THERMOSTAT . FURNACE EFFICIENCY LISTED IS MINIMUM, EZ TRAP 200 SERIES OVERFLOW SWITCH ON SECONDARY DRAIN, IG-1	

AIR COOLED CONDENSING UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	SERVING	NOM TONS	REFR TYPE	ELECTRICAL				SEER	OPER WT (LBS)	REMARKS
					RLA	MCA	MOCP	VOLT/Ø			
CU-1	TRANE 4TTA3048	GF-1	4	410A	13.7	18	30	208-230 / 3	14.3	210	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-2	TRANE 4TTA3048	GF-2	4	410A	13.7	18	30	208-230 / 3	14.3	210	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-3	TRANE 4TTA3036	GF-3	3	410A	10.4	14	20	208-230 / 3	14.0	150	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-4	TRANE 4TTA3060	GF-4	5	410A	15.6	21	35	208-230 / 3	13.5	230	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-5	TRANE 4TTA3060	GF-5	5	410A	15.6	21	35	208-230 / 3	13.5	230	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-6	TRANE 4TTA3048	GF-6	4	410A	13.7	18	30	208-230 / 3	14.3	210	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-7	TRANE 4TTA3048	GF-7	4	410A	13.7	18	30	208-230 / 3	14.3	210	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-8	TRANE 4TTA3060	GF-8	5	410A	15.6	21	35	208-230 / 3	13.5	230	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-9	TRANE 4TTA3048	GF-9	4	410A	13.7	18	30	208-230 / 3	14.3	210	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-10	TRANE 4TTA3060	GF-10	5	410A	15.6	21	35	208-230 / 3	13.5	230	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.
CU-11	TRANE 4TTA3048	GF-11	4	410A	13.7	18	30	208-230 / 3	14.3	210	HAIL GUARD, DISCONNECT, SCROLL COMPRESSOR. SEER LISTED IS MINIMUM.

DUCTLESS SPLIT-SYSTEM - INDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	TYPE	COOLING (MBH)	HEATING (MBH)	ELECTRICAL			OPER WT (LBS)	REMARKS
					VOLT/Ø	MCA	MOCP		
DSS-1	TRANE MITSUBISHI TPKA0A0121LA10A	WALL	12	NA	208/1	1	15	30	WIRED WALL MOUNTED THERMOSTAT, INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT, PROVIDE WITH CONDENSATE PUMP

DUCTLESS SPLIT-SYSTEM - OUTDOOR UNIT SCHEDULE

TAG	MANUFACTURER & MODEL NO	NOM TONS	REFR TYPE	CAPACITY (MBH)			ELECTRICAL			SEER	HSPF	OPER WT (LBS)	REMARKS
				COOL	COOLING	HEATING	MCA	MOCP	VOLT/Ø				
DSS-1	TRANE MITSUBISHI TRUYA0121KA70NA	1	410A	95.0 47.0	12	NA	11	28	208/1	21	---	100	INVERTER COMPRESSOR, LOW AMBIENT KIT

BI-POLAR ION GENERATOR SCHEDULE

TAG	MANUFACTURER & MODEL NO.	MAX TREATED AIRFLOW (CFM)	MOUNTING LOCATION	SELF-CLEANING	DRY CONTACTS	POWER (VA)	OZONE VALIDATED	DATA OUTPUT TO BAS	INPUT VOLTAGE	REMARKS
IG-1	AIRPLUS FM-6000	6,000	FAN INLET	AUTOMATIC	INCLUDED	4.8	UL2998	INTEGRAL	24 VAC	POWERED FROM THE 24V FAN CONTROL CIRCUIT OR FIELD INSTALLED TRANSFORMER BY THIS CONTRACTOR, UL-887

MOTORIZED DAMPER SCHEDULE

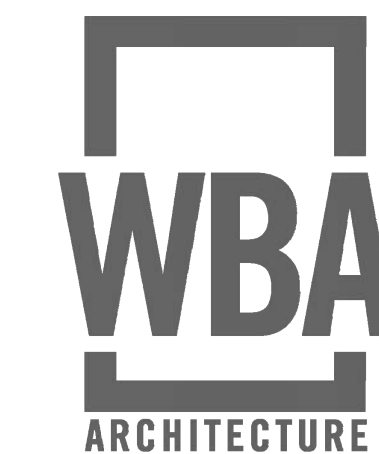
TAG	DAMPER MODEL	ACTUATOR		INTERLOCK	POWER WIRING	CONTROLS & INTERLOCK WIRING	REMARKS
		MODEL	VOLTAGE/PHASE				
MD-1	RUSKIN CDRS-25	BELIMO	120/1	GF-1	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-2	RUSKIN CDRS-25	BELIMO	120/1	GF-2	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-3	RUSKIN CDRS-25	BELIMO	120/1	GF-3	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-4	RUSKIN CDRS-25	BELIMO	120/1	GF-4	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-5	RUSKIN CDRS-25	BELIMO	120/1	GF-5	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 2-POSITION ACTUATOR.
MD-6	RUSKIN CDRS-25	BELIMO	120/1	GF-6	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-7	RUSKIN CDRS-25	BELIMO	120/1	GF-7	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-8	RUSKIN CDRS-25	BELIMO	120/1	GF-8	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-9	RUSKIN CDRS-25	BELIMO	120/1	GF-9	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-10	RUSKIN CDRS-25	BELIMO	120/1	GF-10	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 3-POSITION ACTUATOR.
MD-11	RUSKIN CDRS-25	BELIMO	120/1	GF-11	DIVISION 26	DIVISION 23 BAS	TAMPERPROOF SUPERVISORY SWITCHES TO MONITOR VALVE STATUS. VERIFY/COORDINATE DEDICATED POWER OR SYSTEM POWER REQUIREMENTS. INTERLOCK WITH OCCUPANCY SENSOR IN ROOM IDU SERVED (SEE CONTROLS). 2-POSITION ACTUATOR.

DEHUMIDIFIER UNIT SCHEDULE

TAG	MANUFACTURER AND MODEL NO.	CFM	PINTS/24 HRS	ELECTRICAL		OP WT (LBS)	REMARKS
				VOLT/Ø	AMPS		
DH-1	QUEST DRY DRY205	450	205	115/1	13.2	--	HARD DRAIN CONNECTION, 10' CORD WITH PLUG, MERV 11 FILTER, PINTS/24 HRS IS BASED ON 80 °F / 60% RH ENTERING AIR CONDITIONS, PROVIDE WITH BACKDRAFT DAMPER PER MANUFACTURERS RECOMMENDATIONS, DIGITAL HUMIDITY CONTROLLER WITH LCD DISPLAY MOUNTED ON UNIT WITH REMOTE SENSOR MOUNTED ON WALL IN SPACE.
DH-2	QUEST DRY DRY205	450	205	115/1	13.2	--	HARD DRAIN CONNECTION, 10' CORD WITH PLUG, MERV 11 FILTER, PINTS/24 HRS IS BASED ON 80 °F / 60% RH ENTERING AIR CONDITIONS, PROVIDE WITH BACKDRAFT DAMPER PER MANUFACTURERS RECOMMENDATIONS, DIGITAL HUMIDITY CONTROLLER WITH LCD DISPLAY MOUNTED ON UNIT WITH REMOTE SENSOR MOUNTED ON WALL IN SPACE.
DH-3	QUEST DRY DRY205	450	205	115/1	13.2	--	HARD DRAIN CONNECTION, 10' CORD WITH PLUG, MERV 11 FILTER, PINTS/24 HRS IS BASED ON 80 °F / 60% RH ENTERING AIR CONDITIONS, PROVIDE WITH BACKDRAFT DAMPER PER MANUFACTURERS RECOMMENDATIONS, DIGITAL HUMIDITY CONTROLLER WITH LCD DISPLAY MOUNTED ON UNIT WITH REMOTE SENSOR MOUNTED ON WALL IN SPACE.
DH-4	QUEST DRY DRY205	450	205	115/1	13.2	--	HARD DRAIN CONNECTION, 10' CORD WITH PLUG, MERV 11 FILTER, PINTS/24 HRS IS BASED ON 80 °F / 60% RH ENTERING AIR CONDITIONS, PROVIDE WITH BACKDRAFT DAMPER PER MANUFACTURERS RECOMMENDATIONS, DIGITAL HUMIDITY CONTROLLER WITH LCD DISPLAY MOUNTED ON UNIT WITH REMOTE SENSOR MOUNTED ON WALL IN SPACE.
DH-5	QUEST DRY DRY205	450	205	115/1	13.2	--	HARD DRAIN CONNECTION, 10' CORD WITH PLUG, MERV 11 FILTER, PINTS/24 HRS IS BASED ON 80 °F / 60% RH ENTERING AIR CONDITIONS, PROVIDE WITH BACKDRAFT DAMPER PER MANUFACTURERS RECOMMENDATIONS, DIGITAL HUMIDITY CONTROLLER WITH LCD DISPLAY MOUNTED ON UNIT WITH REMOTE SENSOR MOUNTED ON WALL IN SPACE.

KITCHEN HOOD SCHEDULE

TAG	MANUFACTURER & MODEL NO.	CONFIGURATION & POSITION	DIMENSIONS (OVERALL)			GREASE CUP POSITION	UL TEMP RATING (°F)	TOTAL EXHAUST (CFM)	ELECTRICAL		REMARKS
			LENGTH	WIDTH	HEIGHT				V / PH	OPER AMPS	
KH-1	DENLAR D1000-F (NFA101)	FRONT RECIRC	30"	19"	10.5"	LEFT	NA	500	120/1	3.7	MANUAL PULL STATION KIT, ADA ACCESSIBLE CONTROL BOX, CLOCK BOX W/KEY-LOCK, 60W SHATTER PROOF BULB, AUTO DISCONNECT RANGE ELEMENT KIT



PEARL RIVER VALLEY WATER SUPPLY DISTRICT MAIN OFFICE

6018 Lakeshore Park
Brandon, MS 39047



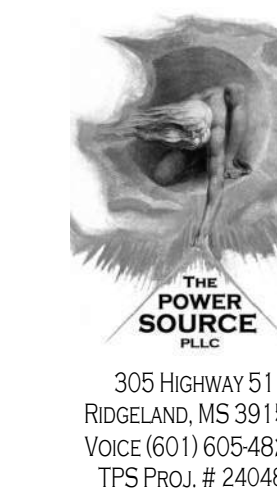
06.21.24

CONSTRUCTION DOCUMENTS
WBA # 23-072

REVISIONS
NO. DESCRIPTION DATE
1 Addendum #1 8/9/24

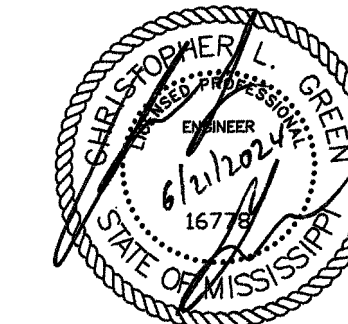


ERG ENGINEERING RESOURCE GROUP, INC.
ERG: 24.058



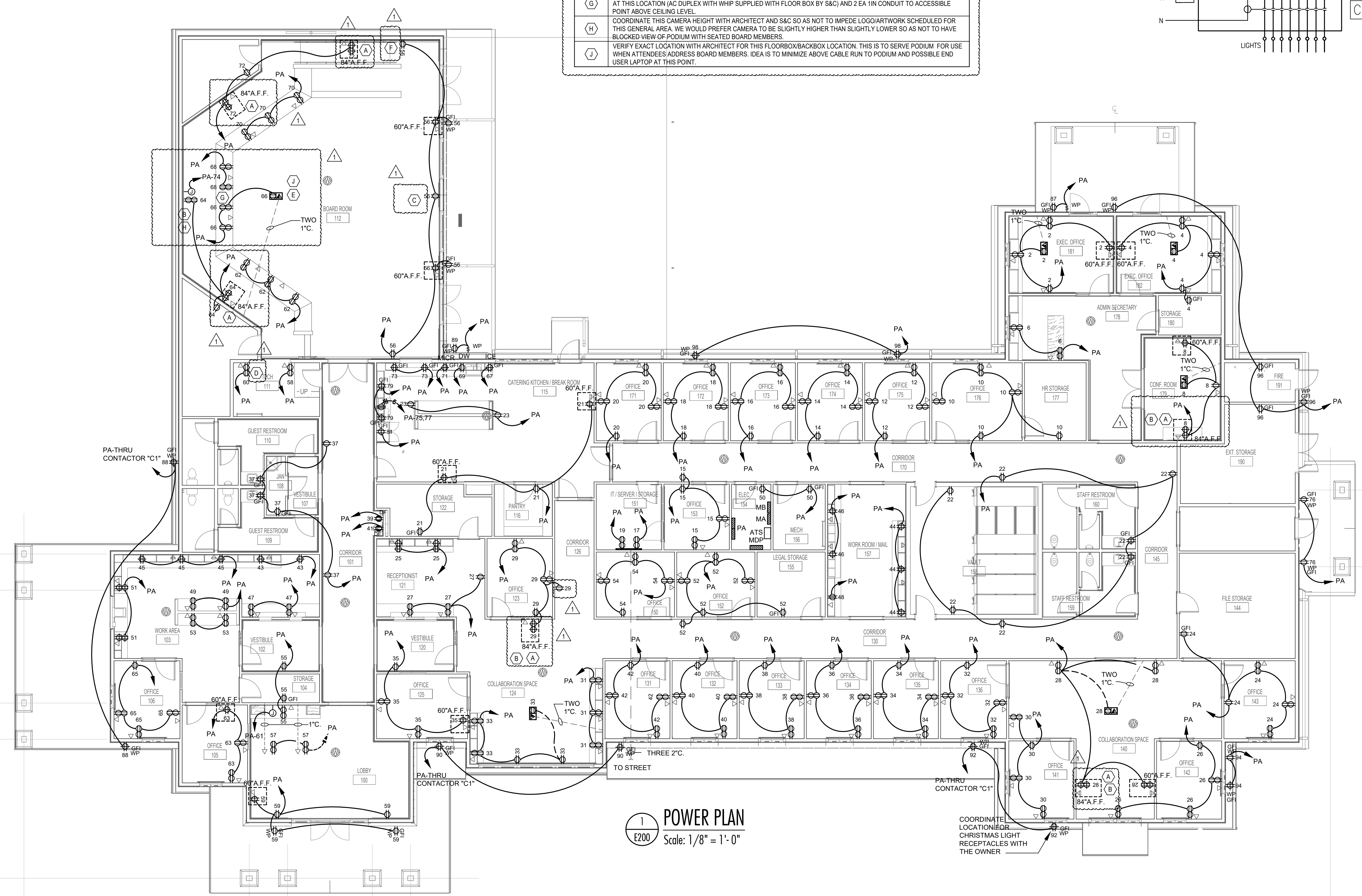
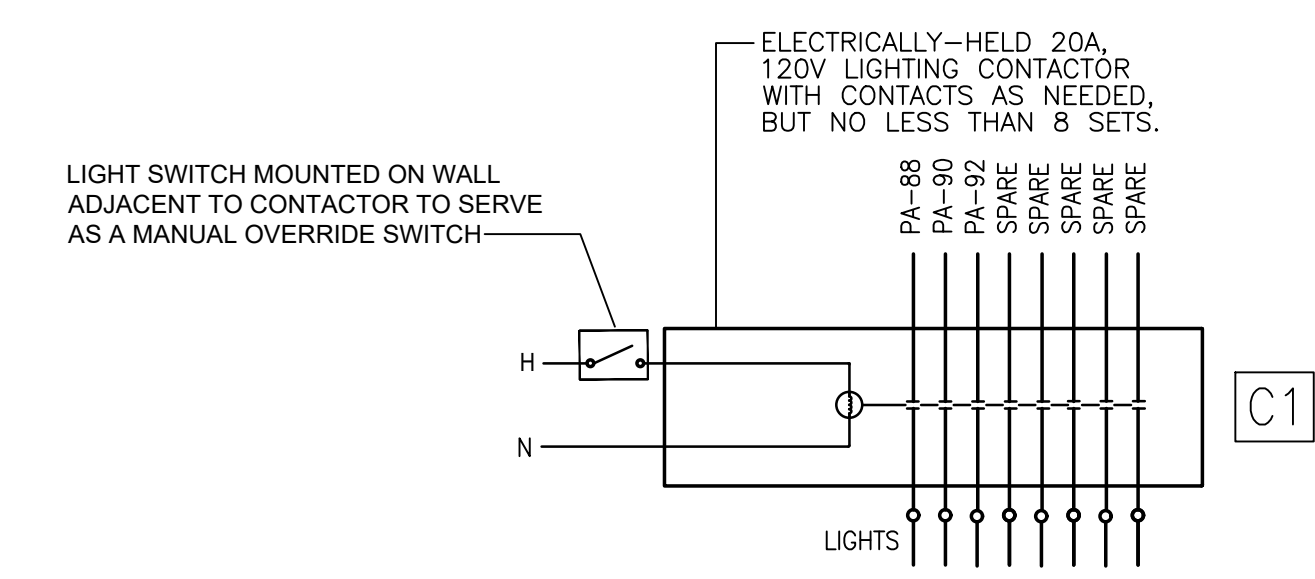
PEARL RIVER VALLEY WATER SUPPLY DISTRICT MAIN OFFICE

1112 N. Shore Pkwy
Brandon, MS 39047



KEYED NOTES

Mark	Description
(A)	4IN SQUARE BOX AND AC DUPLEX SIDE BY SIDE AT 7FT A.F.F. TO SERVE FLATSCREEN DISPLAY. 3/4IN CONDUIT NEEDED FROM 4IN SQ/BX TO ACCESSIBLE POINT ABOVE CEILING LEVEL.
(B)	4IN SQUARE BOX WITH 1 GANG REDUCER RING AT 7FT A.F.F. TO SERVE PTZ CAMERA. 3/4IN CONDUIT NEEDED FROM 4IN SQ/BX TO ACCESSIBLE POINT ABOVE CEILING LEVEL.
(C)	4IN SQUARE BOX WITH 1 GANG REDUCER RING AT 8FT A.F.F. TO SERVE PTZ CAMERA. 3/4IN CONDUIT NEEDED FROM 4IN SQ/BX TO ACCESSIBLE POINT ABOVE CEILING LEVEL.
(D)	12IN X 12IN BOX IN WALL AT AC RECEPTACLE HEIGHT. 3EA 1IN CONDUITS FROM THIS BOX TO ACCESSIBLE POINT ABOVE CEILING LEVEL OF BOARD ROOM 112. AC QUADPLEX ON DEDICATED CIRCUIT FOR AV NEEDED ADJACENT TO THIS BOX.
(E)	BB2000D AT PODIUM LOCATION (CHECK WITH ARCHITECT FOR EXACT LOCATION). AC POWER REQ'D AT THIS LOCATION (AC DUPLEX WITH WHIP SUPPLIED WITH FLOORBOX BY S&C) AND 2EA 1IN CONDUIT TO ACCESSIBLE POINT ABOVE CEILING LEVEL.
(F)	4IN SQUARE BOX WITH 1 GANG REDUCER RING IN WALL AT NORMAL THERMOSTAT HEIGHT. 3/4IN CONDUIT FROM BOX TO ACCESSIBLE POINT ABOVE CEILING LEVEL.
(G)	BB2000D BEHIND DAIS (HIDDEN FROM AUDIENCE VIEW. CHECK WITH ARCHITECT FOR EXACT LOCATION). AC POWER REQ'D AT THIS LOCATION (AC DUPLEX WITH WHIP SUPPLIED WITH FLOOR BOX BY S&C) AND 2EA 1IN CONDUIT TO ACCESSIBLE POINT ABOVE CEILING LEVEL.
(H)	COORDINATE THIS CAMERA HEIGHT WITH ARCHITECT AND S&C SO AS NOT TO IMPEDE LOGO/ARTWORK SCHEDULED FOR THIS GENERAL AREA. WE WOULD PREFER CAMERA TO BE SLIGHTLY HIGHER THAN SLIGHTLY LOWER SO AS NOT TO HAVE BLOCKED VIEW OF PODIUM WITH SEATED BOARD MEMBERS.
(J)	VERIFY EXACT LOCATION WITH ARCHITECT FOR THIS FLOORBOX/BACKBOX LOCATION. THIS IS TO SERVE PODIUM FOR USE WHEN ATTENDEES ADDRESS BOARD MEMBERS. IDEA IS TO MINIMIZE ABOVE CABLE RUN TO PODIUM AND POSSIBLE END USER LAPTOP AT THIS POINT.



1 POWER PLAN
E200 Scale: 1/8" = 1'-0"

06.21.24

CONSTRUCTION DOCUMENTS
WBA # 23-072

REVISIONS

NO.	DESCRIPTION	DATE
1	ADDENDUM #1	8/9/2024

E200