

STATE OF INDIANA

Request for Quotation

SOLICITATION NO: 0000086679

REQUEST FOR: Rebar

REQUESTED BY Morgan Monroe SF Shelter 154817

REQUESTOR: Amber Simonton asimonton@dnr.in.gov

PHONE: 317-234-5593

YOUR RESPONSE MUST BE RECEIVED BY: February 19, 2026 11:00 AM

GENERAL INFORMATION

The information below is provided to assist you in completing this request. Please note that these instructions may not contain all applicable requirements. Careful reading of this request is imperative. Failure to follow these instructions or those printed throughout this package could lead to rejection of your quotation. It is not necessary to return this page with your response.

- Type or print legibly in black ink all requested information, including prices and extensions, as well as accurate vendor information.
- Manually sign the Signature Page and Contract if applicable.
- Fax or mail your response to the Requestor listed above. **(IF THE RESPONSE IS GREATER THAN \$75,000, A MANUAL SIGNATURE IS REQUIRED, THEREFORE A FAX IS NOT ACCEPTABLE) AGENCY PERSONNEL ARE ONLY AUTHORIZED TO CONDUCT PURCHASES OF THIS DOLLAR AMOUNT ON MAINTENANCE AGREEMENTS AND SOFTWARE LICENSES.**
- Do not add any contractual or payment terms and conditions. Terms and conditions of the award will be those listed in this request package and the resulting Purchase Order only.
- If you are not eligible to claim the Recycled Preference but are offering recycled content products, please list the percentage of content for EACH LINE ITEM and provide manufacturer certification.
- If you are not willing to accept a split award (partial order), your response must include the statement, "Bidding all or none."
- Your response must be received by the requested date and time indicated.
 - If you have questions regarding this request, contact the requestor listed above.

Bidders are not required to be registered with the Procurement Division to respond to a solicitation. If your quotation is recommended for an award, you will be notified of the registration requirements. You will have five (5) days from the date of notification to complete the registration requirements, or the recommended award will be canceled. To register electronically, visit <http://www.in.gov/idoa/2464.htm>.

TERMS AND CONDITIONS

1. **ACKNOWLEDGMENT:** This Agreement contains the complete and final Agreement between the State and the Contractor and no other Agreement in any way modifying any of said terms and conditions will be binding upon the State or the Contractor unless made in writing and signed by the State's and the Contractor's authorized representative.
2. **PRICING:** Unit price must be entered and extended, and the total price of the solicitation must be shown. If there is an error between the unit price and total price, the unit price shall prevail. Awarded Prices: Prices listed for each item are firm and cannot be changed. Any revision in price may be rejected at the discretion of the IN Dept. of Administration, and may result in cancellation of the Purchase Order without recourse on the part of the awarded Contractor.
3. **TERMINATION FOR CONVENIENCE:** This Agreement may be terminated, in whole or in part, by the State whenever, for any reason, the State determines that such termination is in the best interest of the State. Termination shall be affected by delivery to the Contractor of a Termination Notice at least thirty (30) days prior to termination effective date, specifying the extent to which performance of services under which such termination becomes effective. The Contractor shall be compensated for performance prior to the notice date of termination but in no case shall total payment made to Contractor exceed the original Agreement price due on Agreement. No price increase shall be allowed on individual line items if canceled only in part.
4. **FUNDING CANCELLATION:** When the Director of the State Budget Agency makes a written determination that funds are not appropriated or otherwise available to support continuation of performance of this Agreement, this Agreement shall be canceled. A determination by the Budget Director that funds are not appropriated or otherwise available to support continuation of performance shall be final and conclusive.
5. **INSURANCE:** If this Agreement provides for work to be performed by the Contractor for the State, the Contractor shall be responsible for providing all necessary unemployment and workers' compensation, insurance for the Contractor's employees and liability and property/casualty insurance, as required by the State. Upon request, the Contractor shall furnish a certificate of insurance showing coverage acceptable to the State.
6. **DELIVERY:** Delivery must be made at time agreed upon. If any indicated or actual delays arise, the using agency must be notified immediately, in writing, with the cause for such delay stated. If any goods are not delivered within the time specified on the Purchase Order, or within a reasonable time not exceeding 30 days after receipt of a Purchase Order if no time is specified, the using agency may refuse to accept such goods, and this Agreement may be cancelled. Each package shall be numbered and labeled with the State's Purchase Order number, contents and weight, and shall contain an itemized packing slip and be properly packed for shipment.
7. **QUANTITY:** Goods shipped in excess of quantity designated in the Purchase Order may be returned at the Contractor's expense.
8. **COMPLIANCE WITH SPECIFICATIONS:** The goods and/or services shall conform strictly to the specifications, drawings, or samples specified or furnished in connection with the bid/quote, all of which are incorporated herein. The Contractor warrants all goods and/or services delivered to be free from defects of material or workmanship. This warranty shall survive any inspection, delivery, acceptance, or payment by the State of the goods and/or services. Inspections shall be on the State's premises unless otherwise specified. The State shall have the right to reject and return at the Contractor's expense, or to require at the Contractor's expense, the correction or replacement of materials, workmanship, or services which are defective or do not conform to the requirements of the Purchase Order.
9. **WARRANTY:** The Contractor will furnish all parts and maintenance at no charge for a period of at least 90 days or the manufacturer's standard warranty, whichever is longer, provided that such maintenance and parts are not required because of accident, neglect, misuse, or force majeure event. Contractor shall be responsible for removal and/or disposal of all replaced parts. Prior to the expiration of the warranty period, whenever equipment is shipped for a mechanical replacement purpose, the Contractor shall bear all cost of such shipment including, but not limited to, cost of packing, transportation, rigging drayage, and insurance. All replacements shall be covered by a new warranty.
10. **INTELLECTUAL PROPERTY DEFENSE:** The Contractor shall, at its own expense, defend, indemnify and hold harmless the State with respect to any claims that the goods and/or services furnished under this Agreement violates any third-party intellectual property rights including, but not limited to, patents, copyrights, trademarks and trade secrets.
11. **PAYMENTS:** All payments shall be made in arrears in conformance with State fiscal policies and procedures and, as required by IC4-13-2-14.8, by electronic funds transfer to the financial institution designated by the Contractor in writing unless a specific waiver has been obtained from the Auditor of State. No payments will be made in advance of receipt of the goods or services that are the subject of this Agreement except as permitted by IC 4-13-2-20.
12. **COMPLIANCE WITH LAWS:** The Contractor agrees to comply with all applicable federal, state, and local laws, rules, regulations, or ordinances, and all provisions required thereby to be included herein are hereby incorporated by reference. The enactment of any state or federal statute or the promulgation of regulations thereunder after execution of this Agreement shall be reviewed by the State and the Contractor to determine whether the provisions of this Agreement require formal modification.
13. **COMPLIANCE WITH TELEPHONE SOLICITATIONS ACT:** As required by IC 5-22-3-7, the Contractor and any principals for the Contractor certify that (A) the Contractor, except for de minimis and nonsystematic violations, has not violated the terms of (i) IC 24-4-7 [Telephone Solicitation of Consumers], (ii) IC 24-5-12 [Telephone Solicitations], or (iii) IC 24-5-14 [Regulation of Automatic Dialing Machines] in the previous three hundred sixty-five (365) days, even if IC 24-4-7 is preempted by federal law; and (B) the Contractor will not violate the terms of IC 24-4-7 for the duration of the Agreement, even if IC 24-4-7 is preempted by federal law. The Contractor and any principals of the Contractor certify that an affiliate or principal of the Contractor and any agent acting on behalf of the Contractor or on behalf of an affiliate or principal of the Contractor: (A) except for de minimis and nonsystematic violations, has not violated the terms of IC 24-4-7 in the previous three hundred sixty-five (365) days, even if IC 24-4-7 is preempted by federal law; and (B) will not violate the terms of IC 24-4-7 for the duration of the Agreement, even if IC 24-4-7 is preempted by federal law.
14. **NONDISCRIMINATION:** Pursuant to IC 22-9-1-10 and Civil Rights Act of 1964, the Contractor and its Agents, if any, shall not discriminate against any employee or applicant for employment, to be employed in the performance of this Agreement, with respect to hire, tenure, terms, conditions or privileges of employment or any matter directly or indirectly related to employment, because of race, religion, sex, disability, national origin, ancestry or status as a veteran. The Contractor, and its subcontractor(s), if any, shall comply with all applicable affirmative action reporting requirements. Breach of this covenant may be regarded as a material breach of this Agreement. The Contractor shall comply with Section 202 of Executive Order 11246, as amended, 41 CFR 60-250, and 41 CFR 60-741, as amended.
15. **DRUG-FREE WORKPLACE CERTIFICATION:** As required by Executive Order No. 90-5, the Contractor hereby covenants and agrees to make a good faith effort to provide and maintain a drug-free workplace. The Contractor will give written notice to the State within ten (10) days after receiving actual notice that the Contractor or an employee of the Contractor in Indiana has been convicted of a criminal drug violation occurring in the Contractor's workplace.
16. **TAXES:** Prices listed on an invoice submitted by the Contractor for payment is not to include any tax for which the State is exempt. The State will furnish a tax exempt certificate, if requested by the Contractor. The State will not be responsible for any taxes levied on the Contractor as a result of this Agreement.
17. **FORCE MAJEURE:** In the event that either party is unable to perform any of its obligations under this Agreement, or to enjoy any of its benefits, because of natural disaster or decrees of governmental bodies not the fault of the affected party ("Force Majeure Event"), the party who has been so affected shall immediately give notice to the other party and shall do everything possible to resume performance. Upon receipt of such notice, all obligations under this Agreement shall be immediately suspended. If the period of nonperformance exceeds thirty (30) days from the receipt of notice of the Force Majeure Event, the party whose ability to perform has not been so affected may, by giving written notice, terminate this Agreement.
18. **GOVERNING LAWS:** This Agreement shall be construed in accordance with and governed by the laws of the State of Indiana and suit, if any, must be brought in the State of Indiana.
19. **INFORMATION TECHNOLOGY ENTERPRISE ARCHITECTURE REQUIREMENTS:** If Contractor provides any information technology related products or services to the State, Contractor shall comply with all Indiana Office of Technology (IOT) standards, policies, and guidelines, which are online at <http://iot.in.gov/architecture/>. Contractor specifically agrees that all hardware, software, and services provided to or purchased by the State shall be compatible with the principles and goals contained in the electronic and information technology accessibility standards adopted under Section 508 of the Federal Rehabilitation Act of 1973 (29 U.S.C. 794d) and IC 4-13-1.3. Any deviation from these architecture requirements must be approved in writing by IOT in advance. The State may terminate this Agreement for default if Contractor fails to cure a breach of this provision within a commercially reasonable time.

CLAIMING PURCHASING PREFERENCES

Each bidder should review the various procurement preferences allowed by State statute. A summary of the preferences can be under Programs and Preferences located at: <https://www.in.gov/idoa/3106.htm>.

Each bidder must answer the following questions pertaining to purchasing preferences. No preference will be applied unless these questions have been answered and any required attachments included.

1. Are you claiming the U.S. Manufactured Product Preference (IC 5-22-15-21)

This is per individual line and should be noted below

Yes ____ No ____

Vendor must provide information at the individual line level in regards to this preference...If yes, the bidder is certifying under penalties of perjury that each of the bidder's end products, except those listed under the Exceptions section, is a U.S. Manufactured Product as described in IC 5-22-15-21. A product is manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50% of the cost of all its components. (In determining if a product is manufactured in the United States, only the product and its components shall be considered.)

Please list what line items this preference will apply to:

2. Are you claiming the Preference for Steel Products (IC 5-22-15-25)

Yes ____ No ____

3. Are you claiming the Preference to Coal Mined in Indiana (IC 5-22-15-22)

Yes ____ No ____

4. Are you claiming the Indiana Business Preference (IC 5-22-15-20.5)

Yes ____ No ____

Indicate under which provision for which you are claiming to qualify as an Indiana business, fully complete the Indiana Economic Impact Form (State Form # 51778, and include it with your bid/proposal. Vendors who wish to claim one of the Buy Indiana preferences below, must register from <https://www.in.gov/idoa/2467.htm>. Click on the Supplier Portal Login link, to register and/or update an existing registration. Indicate interest in learning if the business qualifies for Buy Indiana. Upon answering YES, look for more information via email. Respondents may only select one category as shown below. Indicate your selection by clicking the check box next to the certification paragraph. Supporting documents may be required. They should be uploaded so the certification team can review. Once this is complete, save your selection and exit your account.

Approval will be documented by a system generated notification sent to the point of contact email address provided within the Bidder Registration profile. This is to be attached as a screenshot (copied/pasted) for response evaluation. If this document cannot be provided, affirm Buy IN status in a letter, on company letterhead. Provide sufficient detail so the State can confirm approval of the entity. Buy IN must be affirmatively claimed and documentation submitted per RFQ instructions.

____ (1) A business whose principal place of business is located in Indiana.

____ (2) A business that pays a majority of its payroll (in dollar volume) to residents of Indiana.

____ (3) A business that employs Indiana residents as a majority of its employees.

____ (4) A business that makes significant capital investments in Indiana.

Any company that can demonstrate a minimum capital investment of \$5 million or more in plant and/or equipment or annual lease payments of \$2.5 million or more shall qualifies as an Indiana business under category #4.

____ (5) A business that has a substantial positive economic impact on Indiana.

Any company that is in the top 500 companies (adjusted) for one of the following categories: number of employees (DWD), unemployment taxes (DWD), payroll withholding taxes (DOR), or Corporate Income Taxes (DOR); qualifies as an Indiana business under category #5.

5. Are you claiming the Indiana Manufactured Preference (IC 5-22-15-20.5)

Yes ____ No ____

This preference may only be claimed by respondents who claim the Indiana Business Preference.

Submit necessary documentation detailing a substantial amount of manufacturing, assembly, or production of the products proposed is in the State of Indiana.

6. Are you claiming the preference for supplies that contain recycled or post-consumer materials (IC 5-22-15-16)

Yes ____ No ____

The preference does not apply when the purchase description is limited to a supply that contains recycled materials or post-consumer materials

If yes, a manufacturer's certification must be submitted for each item or group of items for which the offeror is seeking a preference or the preference may not be considered.

CLAIMING PURCHASING PREFERENCES continued

7. Are you claiming the preference for soybean oil based ink (IC 5-22-15-18) Yes ____ No ____

8. Are you claiming the preference for soy diesel/bio diesel (IC 5-22-15-19) Yes ____ No ____

9. Are you claiming the Indiana Small Business Preference (IC 5-22-15-23) Yes ____ No ____

If yes, bidder must indicate which category of small business concern applies:

____ Wholesale business with annual sales of four million dollars (\$4,000,000) or less during its last fiscal year. "Wholesale business, means a business that derives its principal source of income (over 50% of gross revenues) from sales to retailers, other merchants, or industrial, institutional or commercial users who will use the goods for resale or business use. This definition distribution activities.

____ Service business with average sales of five hundred thousand dollars (\$500,000) or less for the current and preceding three (3) fiscal years and which employs no more than twenty-five (25) persons. "Service business, " means a business that derives its principal source of income (over 50% of gross revenues) from the sale of useful artistic, educational, intellectual, literary, or scientific labor from which no necessary tangible commodity is derived.

____ Retail business or business selling services with annual sales and receipts of five hundred thousand dollars (\$500,000) or less. "Retail business," means a business that derives its principal source of income (over 50% of gross revenues) from the sale of supplies to the ultimate consumer.

____ Manufacturing business, which employs no more than one hundred (100) persons. "Manufacturing business" means a business that derives its principal source of income (over 50% of gross revenues) from the sale of goods the firm produces at its own facility made from raw, unfinished materials, as distinguished from the final product.

____ A business in any of the following sectors is not a small business if it employees more than one hundred (100) persons or if its annual sales exceed 5 Million dollars (\$5,000,000):

- (A) Information Technology
- (B) Life Sciences
- (C) Transportation
- (D) Logistics

____ A business that has a current verification as a veteran owned small business as defined by IC 5-22-14-3.5(a)(1-3).

10. Are you claiming the preference for Indiana farm products (IC 5-22-15-23.5) Yes ____ No ____

11. Are you claiming the preference for foods/beverages that contain high levels of calcium (IC 5-22-15-24)
Yes ____ No ____

12. Are you claiming the preference for Businesses providing specialized employee services (IC 5-22-15-26)?

Yes ____ No ____

If yes, submit the completed Affidavit of Eligibility with solicitation response.

<https://www.in.gov/idoa/procurement/supplier-resource-center/programs-and-preferences/preferences/>

SF47895 (ELEC1/12)

MINORITY & WOMEN'S BUSINESS ENTERPRISES SUBCONTRACTOR COMMITMENT

Indiana Code 4-13-16.5 and 25 IAC 5 governs the Division of Supplier Diversity program as it relates to the certification, oversight, and responsibilities around the certified Indiana Minority and/or Women Business Enterprises (MWBE). The contract goal for this solicitation is 8% Minority participation and 11% for Women participation.

If participation exists, the vendor must submit with its quote an MWBE Subcontractor Commitment Form. The entity must be on the State of Indiana Certified M/W/IVOSB list at <https://www.in.gov/idoa/mwbe>.

If participation is met through the use of vendors who supply products and/or services directly to the Respondent, the Respondent must provide a description of products and/or services provided that are directly related to this quote and the cost of direct supplies for this quote. Respondents must complete the Subcontractor Commitment Form in its entirety. The total amount proposed should match the amount entered on the Supplier Commitment form. The subcontractor commitment shall apply to the life of the contract including any time after the initial term.

A signed letter(s), on company letterhead, from the MBE(s) and/or WBE(s) must accompany the MWBE Subcontractor Commitment Form. Each letter shall state and will serve as acknowledgement from the MBE and/or WBE of its subcontract amount, a description of products and/or services to be provided on this project and approximate date the subcontractor will perform work on this contract.

Questions about those rules and requirements should be directed to: Division of Supplier Diversity at (317) 232-3061 or the Supplier Diversity website at <https://www.in.gov/idoa/mwbe>.

Prime Contractors must ensure that the proposed subcontractors meet the following criteria:

- Must be on the State of Indiana Certified M/W/IVOSB list at <https://www.in.gov/idoa/mwbe>, **on or before** the proposal due date.
- Prime Contractor must include with their proposal the subcontractor's M/WBE Certification Letter provided by IDOA to show current status of certification.
- Each firm may only serve as one classification – MBE, WBE, or IVOSB (see Section 1.22).
- A Prime Contractor who is an MBE or WBE must meet subcontractor goals by using other listed certified firms. Certified Prime Contractors cannot count their own workforce or companies to meet this requirement. See 25 IAC 5-6-2(d))
- **Must serve a Valuable Scope Contribution (VSC). The firm must serve a value-added purpose on the engagement, as confirmed by the State.**
- Must provide goods or services only in the industry area for which it is certified.
- Must be used to provide the goods or services specific to the contract.
- National Diversity Plans are generally not acceptable.

MINORITY & WOMEN'S BUSINESS ENTERPRISES SUBCONTRACTOR LETTER OF COMMITMENT

A signed letter(s), on company letterhead, from the MBE and/or WBE must accompany the MWBE Subcontractor Commitment Form. Each letter shall state and will serve as acknowledgement from the MBE and/or WBE of its subcontract amount, a description of products and/or services to be provided on this project, and approximate date the subcontractor will perform work on this contract.

By submission of the proposal, the Respondent acknowledges and agrees to be bound by the rules and requirements of the State's Division of Supplier Diversity. Questions about those rules and requirements should be directed to: Division of Supplier Diversity at (317) 232-3061 or the Supplier Diversity website at <https://www.in.gov/idoa/mwbe>.

STATE OF INDIANA MBE/WBE SUBCONTRACTOR COMMITMENT FORM

Quote Number:
TOTAL Quote AMOUNT:

<input type="checkbox"/> MBE Firm <input type="checkbox"/> WBE Firm				
Company Name:		Contact Person:		
Address:		E-mail:		
Sub-Contract Amount:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Telephone Number: ()</td> <td style="width: 50%; padding: 5px;">Fax Number: ()</td> </tr> </table>	Telephone Number: ()	Fax Number: ()
Telephone Number: ()	Fax Number: ()			
Sub-Contract Percentage of Total Quote:		Describe service/product to be provided. <u>Include the applicable UNSPSC that applies to this commitment.</u>		
Provide approximate dates when Sub-Contractor will perform on this project:				

<input type="checkbox"/> MBE Firm <input type="checkbox"/> WBE Firm				
Company Name:		Contact Person:		
Address:		E-mail:		
Sub-Contract Amount:		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Telephone Number: ()</td> <td style="width: 50%; padding: 5px;">Fax Number: ()</td> </tr> </table>	Telephone Number: ()	Fax Number: ()
Telephone Number: ()	Fax Number: ()			
Sub-Contract Percentage of Total Quote:		Describe service/product to be provided. <u>Include the applicable UNSPSC that applies to this commitment.</u>		
Provide approximate dates when Sub-Contractor will perform on this project:				

Respondent Firm

Address

City/State/Zip Code

Representative

Date

Telephone Number

Fax Number

Email Address

Authorizing Signature

Printed Name and Title

☐

☐ Please check if additional forms are attached.

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FORM MUST BE COMPLETED IN ITS ENTIRETY WITH COMPLETED LETTERS OF COMMITMENT.

INDIANA VETERAN OWNED SMALL BUSINESS ENTERPRISES SUBCONTRACTOR COMMITMENT

Indiana Code 4-13-16.5 and 25 IAC 5 governs the Division of Supplier Diversity program as it relates to the certification, oversight, and responsibilities around the certified Indiana Veteran Owned Small Business Enterprises (IVOSB). The contract goal for this solicitation is 3%.

If participation exists, the vendor must submit with its quote an IVOSB Subcontractor Commitment Form. The entity must be on the State of Indiana Certified M/W/IVOSB list at <https://www.in.gov/idoa/mwbe>.

If participation is met through the use of vendors who supply products and/or services directly to the Respondent, the Respondent must provide a description of products and/or services provided that are directly related to this quote and the cost of direct supplies for this quote. Respondents must complete the IVOSB Subcontractor Commitment Form in its entirety. The total amount proposed should match the amount entered on the Supplier Commitment form. The subcontractor commitment shall apply to the life of the contract including any time after the initial term.

A signed letter(s), on company letterhead, from the IVOSB(s) must accompany the IVOSB Subcontractor Commitment Form. Each letter shall state and will serve as acknowledgement from the IVOSB of its subcontract amount, a description of products and/or services to be provided on this project and approximate date the subcontractor will perform work on this contract.

Questions about those rules and requirements should be directed to: Division of Supplier Diversity at (317) 232-3061 or the Supplier Diversity website at <https://www.in.gov/idoa/mwbe>.

Prime Contractors must ensure that the proposed subcontractors meet the following criteria:

- Must be on the State of Indiana Certified M/W/IVOSB list at <https://www.in.gov/idoa/mwbe>, **on or before** the proposal due date.
- Prime Contractor must include with their proposal the Subcontractor's M/WBE Certification Letter provided by IDOA to show current status of certification.
- Each firm may only serve as one classification – MBE, WBE, or IVOSB (see Section 1.22).
- A Prime Contractor who is an MBE or WBE must meet Subcontractor goals by using other listed certified firms. Certified Prime Contractors cannot count their own workforce or companies to meet this requirement. See 25 IAC 5-6-2(d))
- **Must serve a Valuable Scope Contribution (VSC). The firm must serve a value-added purpose on the engagement, as confirmed by the State.**
- Must provide goods or services only in the industry area for which it is certified.
- Must be used to provide the goods or services specific to the contract.
- National Diversity Plans are generally not acceptable.

INDIANA VETERAN OWNED SMALL BUSINESS ENTERPRISES SUBCONTRACTOR LETTER OF COMMITMENT

A signed letter(s), on company letterhead, from the IVOSB must accompany the IVOSB Subcontractor Commitment Form. Each letter shall state and will serve as acknowledgement from the IVOSB of its subcontract amount, a description of products and/or services to be provided on this project, and approximate date the subcontractor will perform work on this contract.

By submission of the proposal, the Respondent acknowledges and agrees to be bound by the rules and requirements of the State's Division of Supplier Diversity. Questions about those rules and requirements should be directed to: Division of Supplier Diversity at (317) 232-3061 or the Supplier Diversity website at <https://www.in.gov/idoa/mwbe>.

STATE OF INDIANA IVOSB SUBCONTRACTOR COMMITMENT FORM

Quote Number:
TOTAL Quote AMOUNT:

Company Name: Address: Sub-Contract Amount: Sub-Contract Percentage of Total Quote: 		Contact Person: E-mail: <table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 50%;"> Telephone Number: () </td> <td style="border: none; width: 50%;"> Fax Number: () </td> </tr> </table> <u>Describe service/product to be provided. Include the applicable UNSPSC that applies to this commitment.</u> 	Telephone Number: ()	Fax Number: ()
Telephone Number: ()	Fax Number: ()			
Provide approximate dates when Sub-Contractor will perform on this project: 				

Company Name: Address: Sub-Contract Amount: Sub-Contract Percentage of Total Quote: 		Contact Person: E-mail: <table style="width: 100%; border: none;"> <tr> <td style="border: none; width: 50%;"> Telephone Number: () </td> <td style="border: none; width: 50%;"> Fax Number: () </td> </tr> </table> <u>Describe service/product to be provided. Include the applicable UNSPSC that applies to this commitment.</u> 	Telephone Number: ()	Fax Number: ()
Telephone Number: ()	Fax Number: ()			
Provide approximate dates when Sub-Contractor will perform on this project: 				

Respondent Firm

Address

City/State/Zip Code

Representative

Date

Telephone Number

Fax Number

Email Address

Authorizing Signature

Printed Name and Title

☐ ☐
☐ Please check if additional forms are attached.

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FORM MUST BE COMPLETED IN ITS ENTIRETY WITH COMPLETED LETTERS OF COMMITMENT.



INDIANA ECONOMIC IMPACT - PROPOSALS AND CONTRACTS

State Form 51778 (R4 / 1-06)

DEPARTMENT OF ADMINISTRATION

Approved by State Board of Accounts, 2006

This information is required by the Indiana Department of Administration for all contractors, vendors/suppliers to the State of Indiana (complete all 22 items).

1	Legal Name of firm:	
2	Address/City/State/Zip Code:	
3	Telephone #/Fax #/Website:	
4	Federal Tax Identification Number:	
5	State/Country of domicile/incorporation:	
6	Location of firm's headquarters or principal place of business:	
7	Name of parent company or holding company (if applicable):	
8	State/Country of domicile/incorporation of company listed in #7:	
9	Address of company listed in #7:	
10	IN Department of Workforce Development (DWD) account number:	
11	IN Department of Revenue (DOR) account number:	
12	Number of Indiana resident employees per most recently completed IRS Form W-2 distribution:	
13	Total number of employees per most recently completed IRS Form W-2 distribution:	
14	Total amount of payroll paid to Indiana resident employees per most recently completed IRS Form W-2 distribution:	
15	Total amount of payroll paid to all employees per the most recently completed IRS Form W-2 distribution:	
16	Total amount of this proposal, bid, or current contract:	

ACCOUNTING OF INDIANA RESIDENT

17	<u>Prime Contractor Company</u> <u>Name:</u>	
18	<u>Number of Full Time</u> <u>Equivalent (FTE) employees</u> that are Indiana residents specifically for this proposal or contract:	

19	<u>Subcontractor Company</u> <u>Name:</u>				
20	Address/Contact Person/Telephone Number/Tax ID Number:				
21	<u>Number of Full Time</u> <u>Equivalent (FTE) employees</u> that are Indiana residents specifically for this proposal or contract:				

22	<u>Affirmation by authorized official:</u> I affirm under penalties of perjury that the foregoing representations are true to be the				
	Signature:				
	Name of auththorized official:				
	Title:				
	Date:				

SF44260(ELEC2/06)

DRUG-FREE WORKPLACE CERTIFICATION

The Contractor hereby covenants and agrees to make a good faith effort to provide and maintain a drug-free workplace. The Contractor will give written notice to the State within ten (10) days after receiving actual notice that the Contractor or an employee of the Contractor in the State of Indiana has been convicted of a criminal drug violation occurring in the workplace. False certification or violation of this certification may result in sanctions including, but not limited to, suspension of contract payments, termination of this Contract and/or debarment of contracting opportunities with the State for up to three (3) years.

This certification is required by Executive Order No. 90-5, April 12, 1990, issued by the Governor of Indiana. Pursuant to its delegated authority, the Indiana Department of Administration is requiring the inclusion of this certification in all contracts with and grants from the State of Indiana in excess of \$25,000. No award of a contract or grant shall be made, and no contract, purchase order or agreement, the total amount of which exceeds \$25,000, shall be valid unless and until this certification has been fully executed by the Vendor and attached to the contract or agreement as part of the contract documents. False certification or violation of the certification may result in sanctions, including, but not limited to, suspension of contract payments, termination of the contract or agreement and/or debarment of contracting opportunities with the State for up to three (3) years.

The Contractor/Grantee certifies and agrees that it will provide a drug-free workplace by:

- (a) Publishing and providing to all of its employees a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the Vendor's workplace and specifying the actions that will be taken against employees for violations of such prohibition; and
- (b) Establishing a drug-free awareness program to inform employees about (1) the dangers of drug abuse in the workplace; (2) the Vendor's policy of maintaining a drug-free workplace; (3) any available drug counseling, rehabilitation, and employee assistance programs; and (4) the penalties that may be imposed upon an employee for drug abuse violations occurring in the workplace; and
- (c) Notifying all employees in the statement required by subparagraph (a) above that as a condition of continued employment the employee will (1) abide by the terms of the statement; and (2) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction; and
- (d) Notifying in writing the contracting State Agency and the Indiana Department of Administration within ten (10) days after receiving notice from an employee under subdivision(c) (2) above, or otherwise receiving actual notice of such conviction; and
- (e) Within thirty (30) days after receiving notice under subdivision (c) (2) above of conviction, imposing the following sanctions or remedial measures on any employee who is convicted of drug abuse violations occurring in the workplace: (1) take appropriate personnel action against the employee, up to and including termination; or (2) require such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State or local health, law enforcement, or other appropriate agency; and
- (f) Making a good faith effort to maintain a drug-free workplace through the implementation of subparagraphs (a) through (e) above.

SECRETARY OF STATE REGISTRATION

In accordance with IC 5-22-16-4, an offeror or subcontractor desiring to perform any portion of the work described by this bid/quote that is a business required to register with the Secretary of State. The registration requirement is applicable to all limited liability partnerships, limited partnerships, corporations, S-corporations, nonprofit corporations and limited liability companies.

Information concerning registration with the Secretary of State may be obtained by contacting:

Indiana Secretary of State of Indiana
Corporation Section
302 W. Washington St. Rom E018
Indianapolis, IN 46204
(317) 232-6576

COMPLIANCE CERTIFICATION

Responses to this bid solicitation serve as a warrant that the responding entity has properly registered as required by law with the Secretary of State and that it has no current or outstanding criminal, civil, or enforcement actions initiated by the State of Indiana, and it agrees that it will immediately notify the State of any such actions. The respondent also certifies that neither it nor its principals are presently in arrears in payment of its taxes, permit fees or other statutory, regulatory or judicially required payments to the State of Indiana. Any respondent agrees that the State may confirm, at any time, that no such liabilities exist, and, if such liabilities are discovered, that State may bar the respondent from contracting with the State, cancel existing contracts, withhold payments to setoff such obligations, and withhold further payments or purchases until the entity is current in its payments on its liability to the State and has submitted proof of such payment to the State.

ETHICS OBLIGATIONS

The contractor and its agents shall abide by all ethical requirements that apply to persons who have a business relationship with the State, as set forth in Indiana Code § 4-2-6 et seq. and Indiana Code 4.2.7, the regulations promulgated thereunder, and Executive Order 04-08, dated April 27, 2004. If the contractor is not familiar with these ethical requirements, the contractor should refer any questions to the Indiana State Ethics Commission, or visit the Indiana State Ethics Commission website at <http://www.in.gov/ig/commission.html>. If the contractor or its agents violate any applicable ethical standards, the State may, in its sole discretion, terminate this contract immediately upon notice to the contractor. In addition, the Contractor may be subject to penalties under Indiana Code § 4-2-6-12 and 4.2.7.

PRICING

Unit price must be entered and extended, and the total price of the bid must be shown. Unit prices are to be bid on the basis of the unit specified. If there is an error between the unit price and total price, the unit price shall prevail. **Awarded Prices: Prices listed for each item are firm and cannot be changed.**

F.O.B. DESTINATION

The State requires all bids to be submitted on the basis of F.O.B. destination.

OPEN COMPETITION

The specifications are intended to be nonrestrictive. Although at times brand names and model numbers may be used, they are merely intended to be guidelines to establish criteria and quality for competitive bidding. Unless otherwise stated, alternate bids will be evaluated and may be acceptable as long as they can be verified as equal or better than specified as determined by the State. All bidders with alternate products shall submit detailed specifications with their bid.

CREATION OF BINDING AGREEMENT

A binding Agreement will be created only by the issuance of a Purchase Order at any time within the period stated on the Request for Quotation/Invitation to Bid form. The Binding Agreement will be governed by the terms and conditions included in this bid package. The Contractor shall make no deliveries on verbal orders except from the Using Agency on purchases less than \$5,000 and only with written approval on purchases greater than \$5,000 from the Indiana Department of Administration, Procurement Division.

EXCEPTIONS

_____ PLEASE CHECK IF APPLICABLE

Alternative requests must be equal or better than those specified as determined by the Indiana Department of Administration, and bidders deviating from specified items should provide, with his or her request, a listing of all areas in which his or her product deviates and fully explain and justify this alternative.

ANY EXCEPTIONS ARE TO BE NOTED BELOW AND LISTED BY LINE ITEM NUMBER.

EMPLOYMENT ELIGIBILITY VERIFICATION

As required by IC §22-5-1.7, the Contractor swears or affirms under the penalties of perjury that:

1. The Contractor does not knowingly employ an unauthorized alien.
2. The Contractor shall enroll in and verify the work eligibility status of all his/her/its newly hired employees through the E-Verify program as defined in IC §22-5-1.7-3. The Contractor is not required to participate should the E-Verify program cease to exist. Additionally, the Contractor is not required to participate if the Contractor is self-employed and does not employ any employees.
3. The Contractor shall not knowingly employ or contract with an unauthorized alien. The Contractor shall not retain an employee or contract with a person that the Contractor subsequently learns is an unauthorized alien.
4. The Contractor shall require his/her/its subcontractors who perform work under this Contract to certify to the Contractor that the subcontractor does not knowingly employ or contract with an unauthorized alien and that the subcontractor has enrolled and is participating in the E-Verify program. The Contractor agrees to maintain this certification throughout the duration of the term of a contract with a subcontractor.

The State may terminate for default if the Contractor fails to cure a breach of this provision no later than thirty (30) days after being notified by the State.

NON-COLLUSION CERTIFICATION

This is to certify that the Bidder, being duly affirmed under oath says, that he or she is the contracting party; that he or she has not, nor has any other employee of the company represented by him or her, directly or indirectly, entered into or offered to enter into any combination, collusion or agreement to receive or pay, and that he or she has not received or paid, any sum of money or other consideration for the execution of the annexed contract other than that which appears upon the face of the contract.

SIGNATURE

This is to certify that the bidder or any person on his or her behalf has examined and understands and agrees to the specifications, including General and Special conditions of this document.

BIDDER _____ FEDERAL ID NUMBER _____ (Please circle to indicate if your FIN is a TIN or SSN)

ORDERING ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

REMITTANCE ADDRESS _____

CITY _____ STATE _____ ZIP CODE _____

TYPE OF BUSINESS (i.e. Corporation, Sole Proprietor, LLC, etc) _____

NORTH AMERICAN INDUSTRY CLASSIFICATION SYTEM (NAICS CODE) _____

TELEPHONE NUMBER (_____) _____

E-Mail address: _____

If awarded a contract, the bidder will provide supplies, equipment, and/or services to the State of Indiana in accordance with the general conditions, specifications, certifications and other documents of this solicitation.

I, _____, the undersigned _____
(Signature) (Print Office Held)

of the above named bidder under penalties of perjury this _____ day of _____, _____, certify that I hold the aforementioned Office in the above bidder and that the representations are true and accurate.

Event Details

State of Indiana Request for Quotation

Event ID	Format	Type	Page
00300-0000086679	Buy	RFx	1
Event Round	Version		
1	1		
Event Name	Rebar for MMSF Shelter 154817		
Start Time	Finish Time		
01/15/2026 11:50:32 EST	02/19/2026 11:00:00 EST		

Event Currency: US Dollar
Bids allowed in other currency: No

Bidder: INTERNAL EVENT DETAILS
Submit To: Natural Resources
Indiana Dept of Natural Resources
Purchasing
402 W WASHINGTON ST RM W265
INDIANAPOLIS IN 46204
United States
Contact: Simonton,Amber-300
Phone:
Email: ASimonton@dnr.IN.gov

Event Description

Responses to 003000000086679 must be emailed to asimonton@dnr.in.gov OR faxed to (317) 972-3275 OR mailed to:

Amber Simonton
IN Dept of Natural Resources
402 W. Washington St. W265
Indianapolis, IN 46204.

This bid is NOT eligible for electronic submission through the supplier portal. A completed bid package MUST be submitted by the due date/time.

The bid package is available for download through the Bid Documents link in the Event Name column.

***All questions need to be emailed to asimonton@dnr.in.gov by 2/10/26 11:00 am

To allow for sufficient processing time in compliance with Indiana State Law, all quoted prices offered to the State under this Solicitation Event must be valid for thirty (30) calendar days after the Response Due Date (aka Finish Time) listed above.

Please send bid and any questions or concerns to asimonton@dnr.in.gov

Rebar is essential in completion of shelter project for a rentable shelterhouse to be used by guests at Morgan Monroe State Forest

General Comments

- ***Rebar for shelter house project at Morgan Monroe State Forest
***Vendor must be able to cut, bend, and epoxy per specifications (vendors other than preferred vendor who has already seen the drawings must view the project and the drawings prior to selection.

Please see Drawings for MMSF Rebar Shelter

- A rentable shelterhouse to be used by guests at Morgan Monroe State Forest

Event Details (cont.)

State of Indiana Request for Quotation

Event ID	Format	Type	Page
00300-0000086679	Buy	RFx	2
Event Round	Version		
1	1		
Event Name			
Rebar for MMSF Shelter 154817			
Start Time		Finish Time	
01/15/2026 11:50:32 EST		02/19/2026 11:00:00 EST	

Event Currency: US Dollar
Bids allowed in other currency: No

Bidder: INTERNAL EVENT DETAILS
Submit To: Natural Resources
Indiana Dept of Natural Resources
Purchasing
402 W WASHINGTON ST RM W265
INDIANAPOLIS IN 46204
United States
Contact: Simonton,Amber-300
Phone:
Email: ASimonton@dnr.IN.gov

Line Details

No Bid: ☐

Line: 1 **Item ID:** **Line Qty:** 1 **UOM:** Batch Lot **Weighting:** 33.33 **Bid Qty:**

Required: No **Reserve Price:** No

Description: Reinforcement bars, concrete

Question	UOM	Best	Worst	Weighting	Response
What is your quote/bid price?				100%	<input type="text"/>

Required: Yes **Mandatory Response:** No

Response Comments

No Bid: ☐

Line: 2 **Item ID:** **Line Qty:** 2160 **UOM:** Square Ft **Weighting:** 33.33 **Bid Qty:**

Required: No **Reserve Price:** No

Description: 6x6 10/10 sheet mesh

Question	UOM	Best	Worst	Weighting	Response
What is your quote/bid price?				100%	<input type="text"/>

Required: Yes **Mandatory Response:** No

Response Comments

Event Details (cont.)

State of Indiana Request for Quotation

Event ID	Format	Type	Page
00300-0000086679	Buy	RFx	3
Event Round	Version		
1	1		
Event Name	Rebar for MMSF Shelter 154817		
Start Time	Finish Time		
01/15/2026 11:50:32 EST	02/19/2026 11:00:00 EST		

Event Currency: US Dollar
Bids allowed in other currency: No

Bidder: INTERNAL EVENT DETAILS
Submit To: Natural Resources
Indiana Dept of Natural Resources
Purchasing
402 W WASHINGTON ST RM W265
INDIANAPOLIS IN 46204
United States
Contact: Simonton,Amber-300
Phone:
Email: ASimonton@dnr.IN.gov

No Bid: ☐

Line: 3	Item ID:	Line Qty: 1	UOM: Batch Lot	Weighting: 33.33	Bid Qty: <input type="text" value="1"/>
Required: No	Reserve Price: No				

Description: Sidewalk Rebar
Comments: - Vendor must be able to cut, bend, and epoxy per specifications
Please see Drawings for MMSF Rebar Shelter A rentable shelterhouse to be used by guests at Morgan Monroe State Forest
ANY ADDITIONAL FEES INCLUDING SHIPPING CHARGES MUST BE INCLUDED IN THE UNIT COST FOR EACH LINE

Question	UOM	Best	Worst	Weighting	Response
What is your quote/bid price?				100%	<input type="text"/>

Required: Yes Mandatory Response: No

Response Comments

Event Details (cont.)

State of Indiana Request for Quotation

Event ID	Format	Type	Page
00300-0000086679	Buy	RFx	4
Event Round	Version		
1	1		
Event Name			
Rebar for MMSF Shelter 154817			
Start Time		Finish Time	
01/15/2026 11:50:32 EST		02/19/2026 11:00:00 EST	

Event Currency: US Dollar
Bids allowed in other currency: No

Bidder: INTERNAL EVENT DETAILS

Submit To: Natural Resources
Indiana Dept of Natural Resources
Purchasing
402 W WASHINGTON ST RM W265
INDIANAPOLIS IN 46204
United States

Contact: Simonton,Amber-300
Phone:
Email: ASimonton@dnr.IN.gov

Bidder Information

Firm Name:		
Name:	Signature:	Date:
Phone #:	Fax #:	
Street Address:		
City & State:	Zip Code:	
Email:		

SHELTER HOUSE

INDIANA DEPARTMENT OF NATURAL RESOURCES

MORGAN-MONROE STATE FOREST

PROJECT NO. ENG2509637113



Certified by:

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FACILITIES,
FLEET, ASSET MANAGEMENT
AND ENGINEERING
ROOM W299, INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
TEL 317-232-4150, FAX 317-233-1205

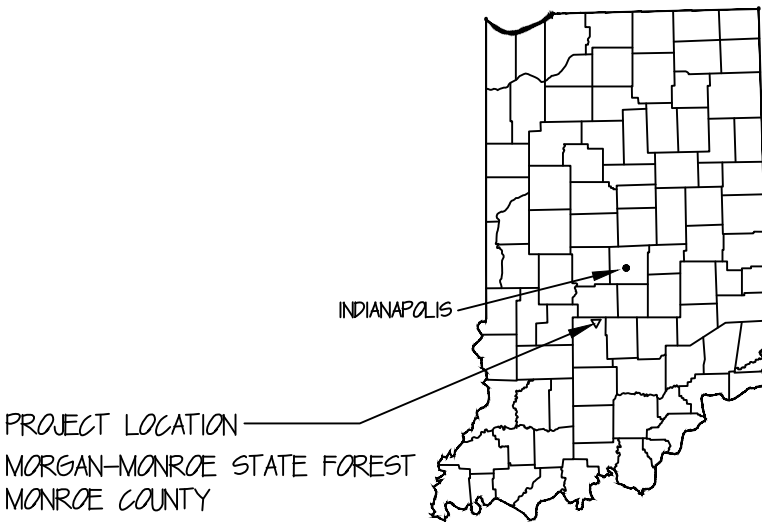
SHELTER HOUSE
MORGAN-MONROE STATE FOREST
DEPARTMENT OF NATURAL RESOURCES
6220 FOREST ROAD
MARTINSVILLE, IN 46151



Consultant Project No. TLF 2024-423 GONZALEZ 24-13559	
State Project No. ENG2509637113	
Revisions:	
1	CONSTRUCTION SET 5-15-2025
Designer: DK	Drawing Date: 05-15-2025
Drafter: DK, SD	Drawing Scale:
DNR Approval:	
Client Approval:	
File Number: 51-85	
Drawing Number: G-1	
Sheet: 1 of 21	

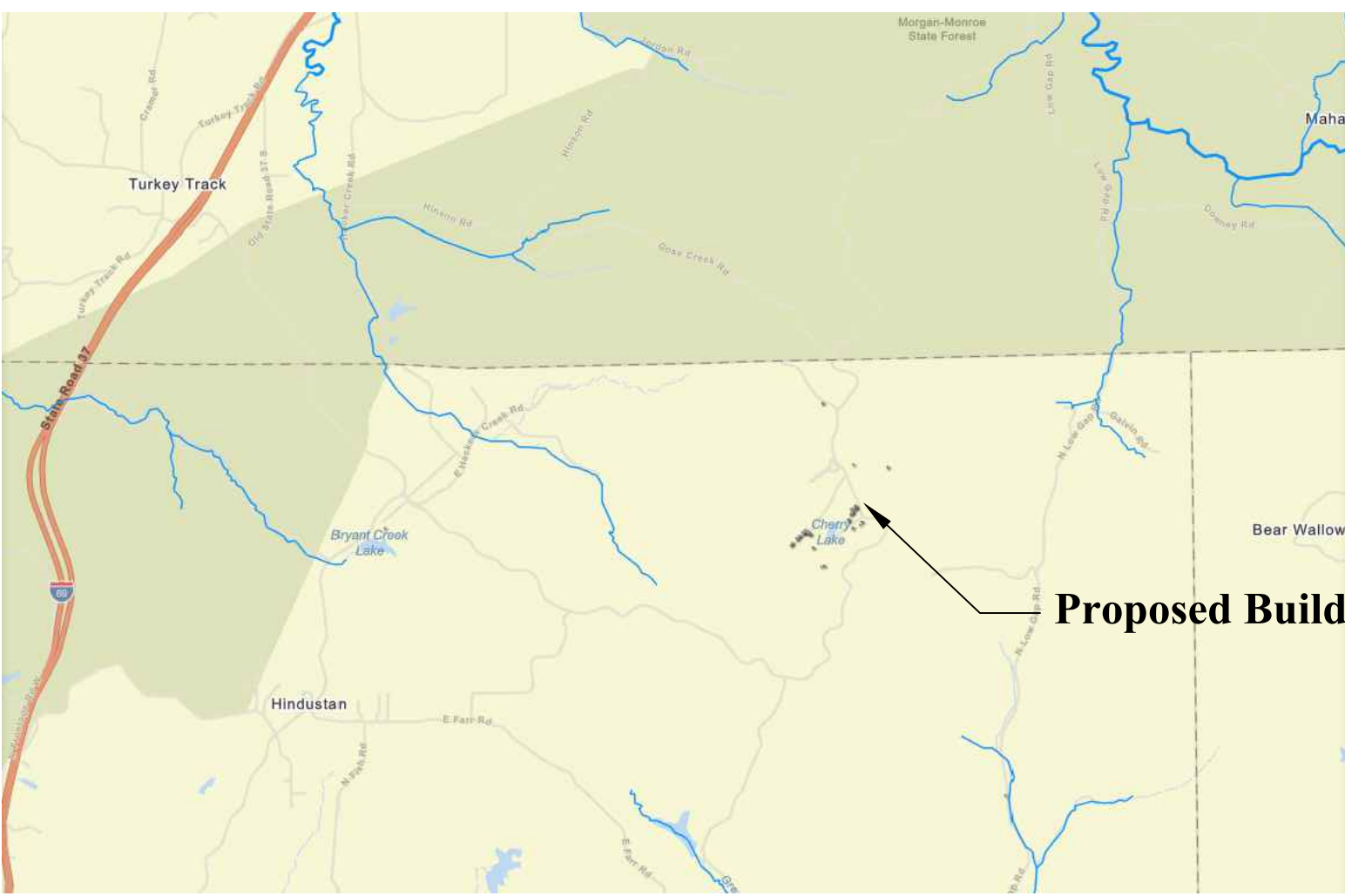
May 13, 2025 - 10:32am S:\ACTIVE PROJECTS\FORESTS\MORGAN-MONROE - 62509637113 - Shelter House - 2024 - axd\design1 - ARCHITECTURAL & ELECTRICAL DRAWINGS\NEW LargeSheet G-1.dwg

LOCATION MAP



NO SCALE

VICINITY MAP



Proposed Building Location




Proposed Building Location

AERIAL PHOTO OF BUILDING SITE

ARCHITECTURAL

STATE OF INDIANA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF FACILITIES,
FLEET, ASSET MANAGEMENT
AND ENGINEERING
ROOM W299, INDIANA GOVERNMENT CENTER SOUTH
402 WEST WASHINGTON STREET
INDIANAPOLIS, INDIANA 46204
TEL 317-232-4150, FAX 317-233-1205



STRUCTURAL ENGINEERING CONSULTANT



3901 West 86th Street, Suite 200
Indianapolis, Indiana 46268
Phone: 317-334-1500
Fax: 317-334-1552
TLF Job No. 2021-324

CIVIL ENGINEERING CONSULTANT



72 Henry St, PO Box 47
North Vernon, IN 47265
Phone 812-346-2045
www.gonzalezcos.com

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- C201

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- C202

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- C203

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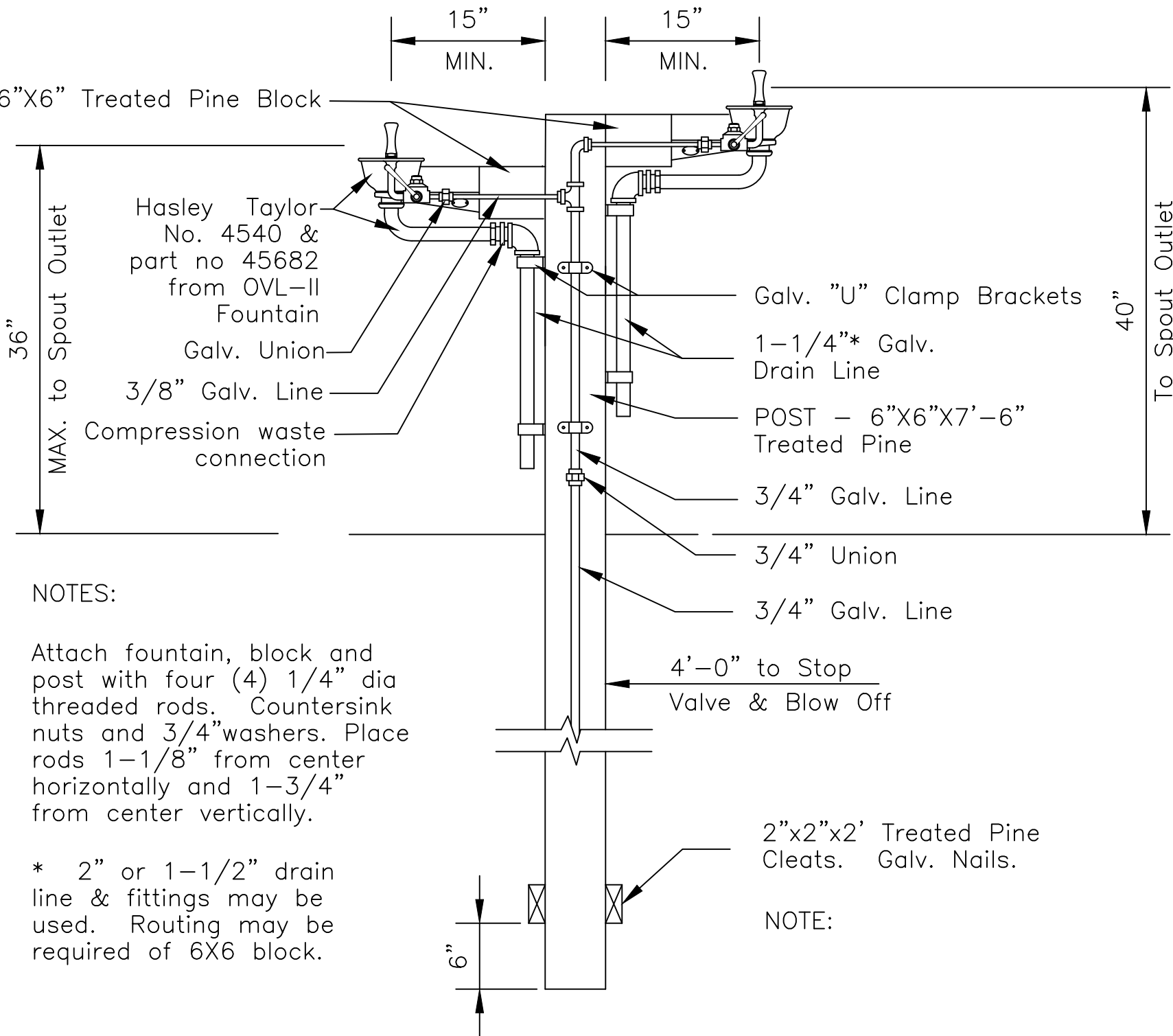
CHIMNEY SECTIONS / DETAILS
- E-1

ELECTRICAL PLAN



CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #1	Mag Nail	1486845.31	3140064.34	960.34
C.P. #2	Mag Nail	1486052.64	3140341.22	933.10
C.P. #3	5/8" REBAR	1486068.95	3140484.98	934.71
C.P. #4	3/8" REBAR	1485799.48	3140529.83	930.35
C.P. #5	MAG NAIL	1485640.90	3140186.44	922.73
C.P. #6	3/8" REBAR	1485646.54	3140516.66	924.31
C.P. #7	5/8" REBAR	1485575.66	3140549.93	921.68
C.P. #8	MAG NAIL	1485487.53	3140660.33	923.35
C.P. #9	MAG NAIL	1485041.23	3139949.95	895.71

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA WEST)
VERTICAL DATUM = NAVD 88
TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED BY OTHERS ON JANUARY 10, 2025. VERTICAL UNCERTAINTY IS APPROXIMATELY 0.14FT.



NOTES:
Attach fountain, block and post with four (4) 1/4" dia threaded rods. Countersink nuts and 3/4" washers. Place rods 1-1/8" from center horizontally and 1-3/4" from center vertically.
* 2" or 1-1/2" drain line & fittings may be used. Routing may be required of 6X6 block.

NOTE:
2"x2"x2' Treated Pine Cleats. Galv. Nails.

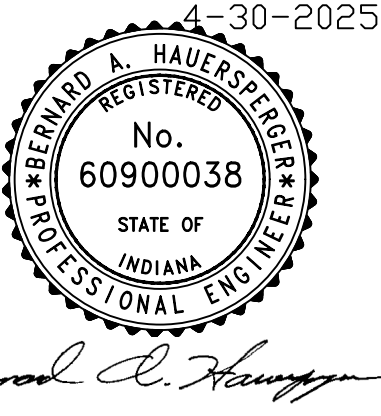
ACCESSIBLE DRINKING FOUNTAIN
Scale: 1"=1'-0"

ACCESSIBLE DRINKING FOUNTAIN DETAIL
(PROVIDED BY DNR - CONSTRUCTED BY OTHERS)

GENERAL NOTE:
ALL CONSTRUCTION TO MEET OR EXCEED ALL STATE, LOCAL, AND FEDERAL CODES & REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CURRENT INDOT, ISBH, IDEM, OSHA, LOCAL REQUIREMENTS & CODES. THE DRAWINGS & SPECS. THAT MAKE UP THE WORK OF THIS PROJECT ARE INTERRELATED & DEPENDENT ON EVERY OTHER DRAWING AND SPEC. SECTION. THE CONTRACTOR SHALL REVIEW ALL OTHER SPEC., DRAWING, & ADDENDUM (IF APPLICABLE) TO COORDINATE ALL WORK THAT RELATES TO THIS PROJECT. IF AN ITEM IS DRAWN OR SPECIFIED ON ANY SPEC. SECTION OR DRAWING, IT SHALL BE AS IF IT WERE PART OF THIS WORK AND SHALL BE PROVIDED FOR IN THE CONTRACT.

1. SHEET TO BE PLOTTED ON ARCH D 24" X 36".

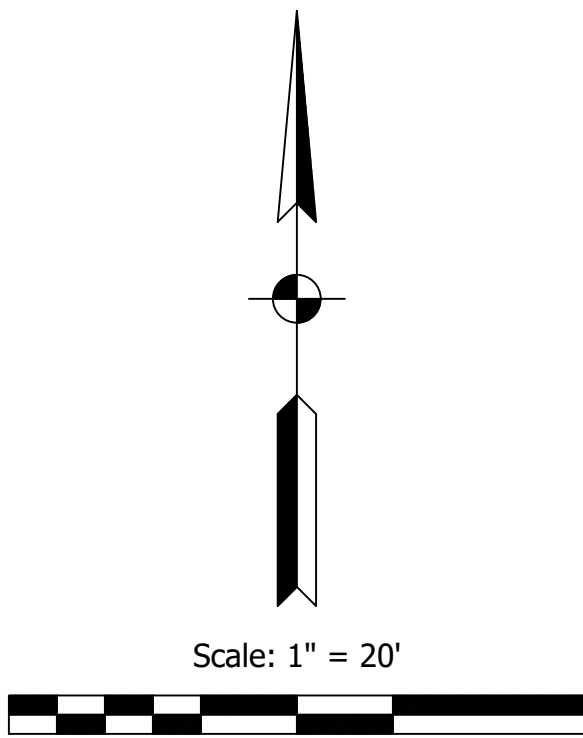
Revision	Drawn By	Date



SCALE: 1" = 100'
DRAWN BY: ARC
CHECKED BY: BAH
DATE: MAY 15, 2025
JOB NO: 24-13559
CLIENT NAME:
INDIANA DEPARTMENT OF NATURAL RESOURCES
PROJECT DESCRIPTION:
MORGAN-MONROE SHELTER
ENG2509637113
SHEET TITLE:
OVERVIEW & CONTROL

DESIGN PHASE:
CONSTRUCTION SET 2 OF 21

SHEET NUMBER:
C100



EX. FEATURES LEGEND

EX. ASPHALT		FIRE HYDRANT	
EX. CONCRETE		WATER METER	
EX. BUILDING		WATER VALVE	
UNDERGRND. ELEC.		SIGN POLE	
UNDERGRND. TELE.		STREET LIGHT	
WATER		BOLLARD	
STORM PIPE		MAG NAIL FND.	
GAS		IRON PIN FND.	
TREE LINE			

UTILITY NOTES

NOTE 1: All utilities depicted are at "Quality Level B" and "Quality Level C".

NOTE 2: "Quality Level B" utility locates are based on markings provided by others. There is no guarantee as to the accuracy or completeness of these markings. Existing utility depths shown on profiles and cross sections are shown for reference purposes only and are based on what may be considered standard bury depths. The exact depth of existing utilities is uncertain and should be field verified by the contractor as needed.

NOTE 3: "Quality Level C" utility locates are based on visible surface features which have been surveyed such as hydrants, valve boxes, meter boxes or other items related to a utility.

NOTE 4: Utility quality level designations are based on ASCE 38-02 (Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data).

CONTROL POINT & BENCHMARK SUMMARY				
PT. #	Description	Northing	Easting	Elevation
C.P. #1	Mag Nail	1486845.31	3140064.34	960.34
C.P. #2	Mag Nail	1486052.64	3140341.22	933.10
C.P. #3	5/8" REBAR	1486068.95	3140484.98	934.71
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C.P. #8	MAG NAIL	1485487.53	3140660.33	923.35
C.P. #9	MAG NAIL	1485041.23	3139949.95	895.71

HORIZONTAL DATUM = NAD83 STATE PLANE COORDINATES (INDIANA WEST)
VERTICAL DATUM = NAVD 88
TOPOGRAPHIC SURVEY AS INDICATED BY FIELD WORK COMPLETED BY OTHERS ON JANUARY 10, 2025. VERTICAL UNCERTAINTY IS APPROXIMATELY 0.14FT.

GENERAL NOTE:
ALL CONSTRUCTION TO MEET OR EXCEED ALL STATE, LOCAL, AND FEDERAL CODES & REQUIREMENTS, INCLUDING BUT NOT LIMITED TO CURRENT INDOT, ISBH, IDEM, OSHA, LOCAL REQUIREMENTS & CODES. THE DRAWINGS & SPECS. THAT MAKE UP THE WORK OF THIS PROJECT ARE INTERRELATED & DEPENDENT ON EVERY OTHER DRAWING AND SPEC. SECTION. THE CONTRACTOR SHALL REVIEW ALL OTHER SPEC., DRAWING, & ADDENDUM (IF APPLICABLE) TO COORDINATE ALL WORK THAT RELATES TO THIS PROJECT. IF AN ITEM IS DRAWN OR SPECIFIED ON ANY SPEC. SECTION OR DRAWING, IT SHALL BE AS IF IT WERE PART OF THIS WORK AND SHALL BE PROVIDED FOR IN THE CONTRACT.

1. SHEET TO BE PLOTTED ON ARCH D 24" X 36".

Revision	Drawn By	Date

FPBH, Inc.

A Gonzalez Company

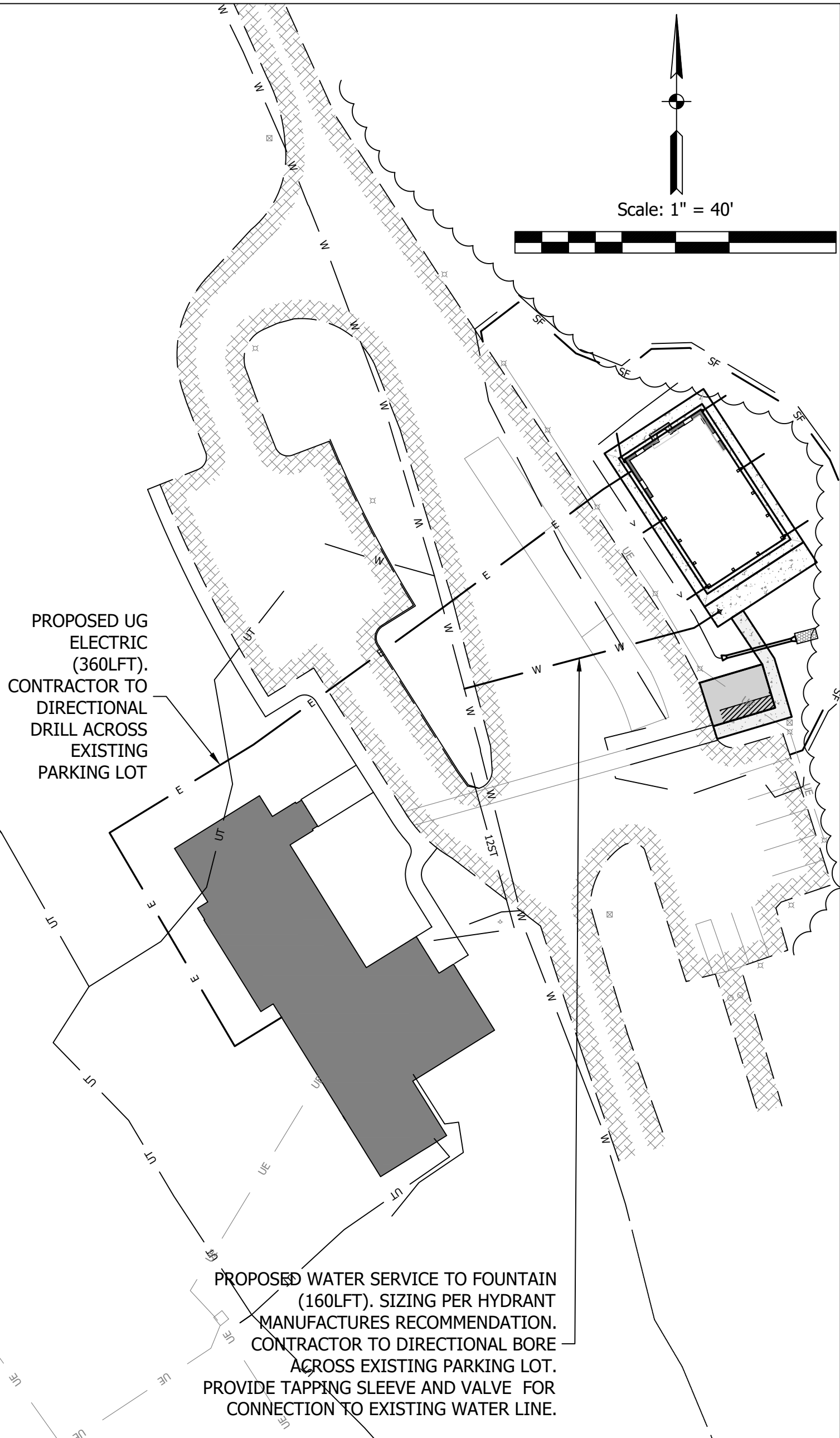
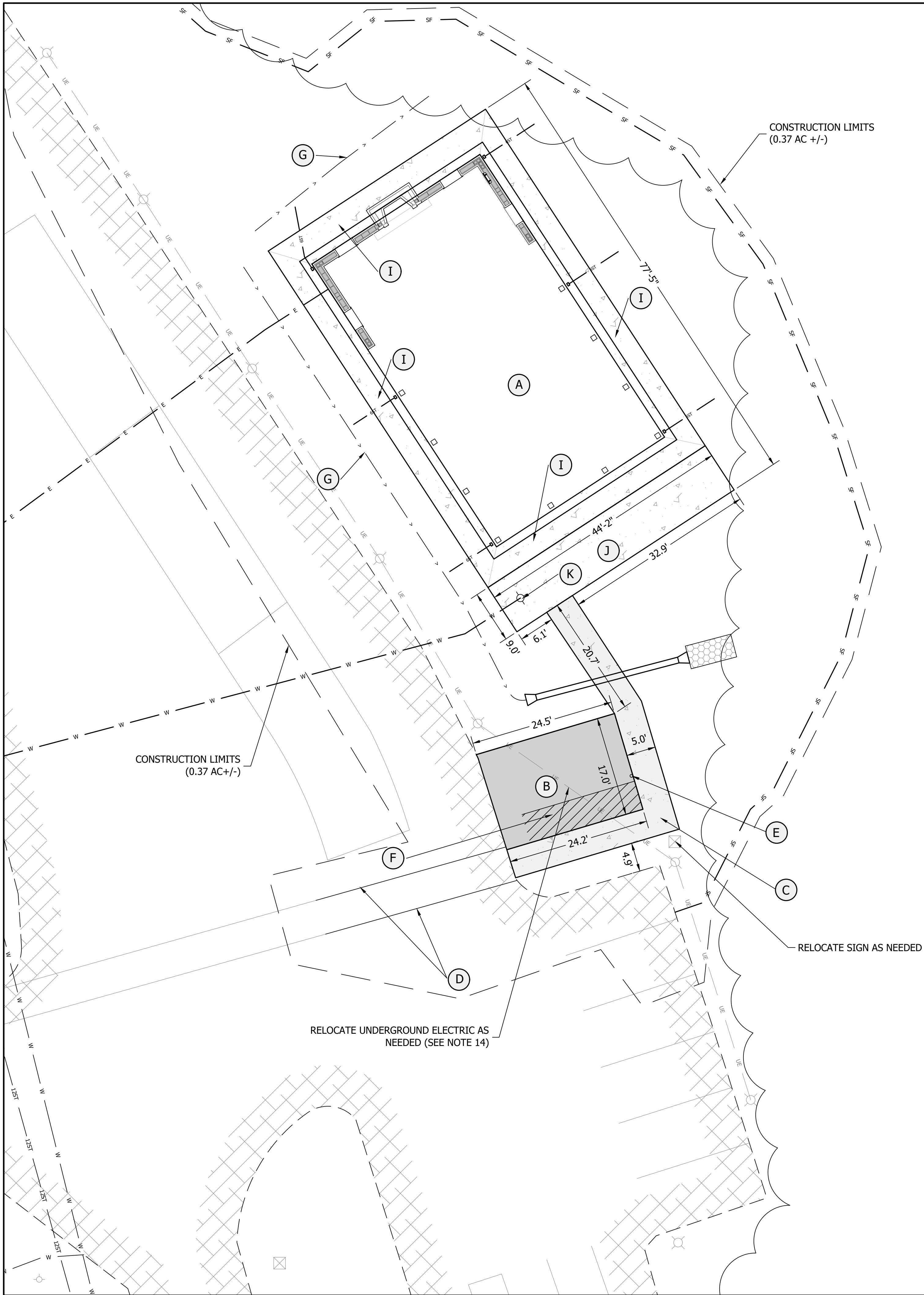
4-30-2025

Ronald A. Hauff

SCALE: 1" = 20'
DRAWN BY: ARC
CHECKED BY: BAH
DATE: MAY 15, 2025
JOB NO: 24-13559
CLIENT NAME:
INDIANA DEPARTMENT OF
NATURAL RESOURCES
PROJECT DESCRIPTION:
MORGAN-MONROE SHELTER
ENG2509637113
SHEET TITLE:
EXISTING CONDITIONS

DESIGN PHASE:
CONSTRUCTION SET 3 OF 21

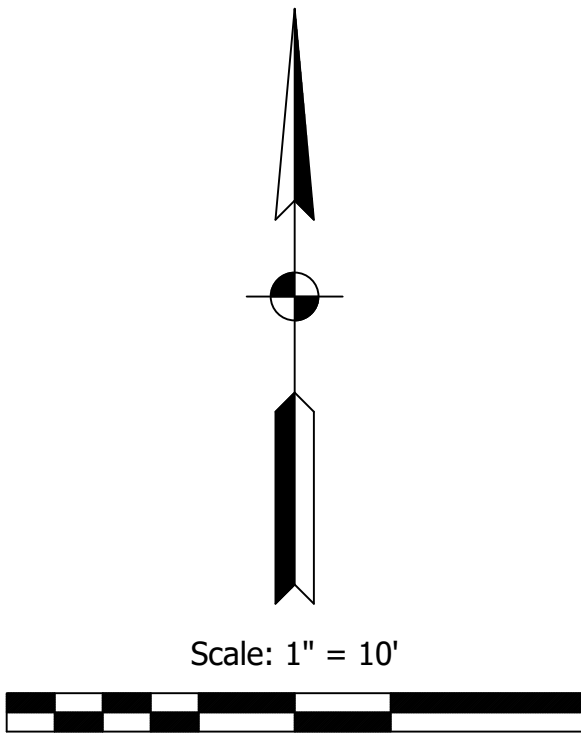
SHEET NUMBER:
C101



UTILITY PLAN

SITE & UTILITY PLAN GENERAL NOTES

1. PROTECT ALL SITE AMENITIES THAT ARE NOT LABELED TO BE REMOVED.
2. SEE DETAILS SHEETS FOR TYPICAL SECTIONS AND ADDITIONAL INFORMATION.
3. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED THROUGHOUT CONSTRUCTION TO PREVENT SEDIMENT DISCHARGE. REFER TO GRADING AND EROSION CONTROL PLAN SHEETS FOR EROSION CONTROL REQUIREMENTS.
4. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES AS NEEDED FOR CONSTRUCTION. UTILITIES SHOWN ARE BASED UPON INFORMATION (MAPS AND/OR FIELD PAINT MARKINGS) SUPPLIED BY OTHERS AND THERE IS NO GUARANTEE OF THE ACCURACY OR COMPLETENESS OF SAID LOCATIONS. COORDINATE WITH UTILITY ON RELOCATES AS REQ'D.
5. SEE GRADING PLAN FOR GRADING INFORMATION AND STORM SEWER.
6. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT PROJECT LIMITS.
7. ALL STORM SEWER PIPE SHALL BE INSTALLED, BEDDED AND BACKFILLED IN ACCORDANCE WITH DETAIL ON SHEET C202.
8. TOPSOIL SHALL BE STRIPPED FROM PARKING/DRIVE AREAS AND REDISTRIBUTED AFTER GRADING IS COMPLETED. FIELD VERIFY TOPSOIL THICKNESS. ENSURE LAWN/GRASS AREAS HAVE ADEQUATE TOPSOIL (6" MIN) TO ENSURE GRASS IS WELL ESTABLISHED.
9. ALL EXCESS MATERIAL SHALL BE REDISTRIBUTED ON SITE, CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS REQUIRED.
10. ALL STANDARD STRIPING SHALL BE 4IN WHITE PAINTED STRIPING AS INDICATED ON PLANS. ALL ADA ACCESSIBLE PARKING SHALL BE 4IN BLUE PAINTED STRIPING AND SHALL ALSO HAVE AN ADA SIGN W/BOLLARD.
11. REFER TO ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS AND ADDITIONAL INFORMATION ON BUILDING.
12. PROPOSED ADA WATER FOUNTAIN SHALL BE ADA COMPLIANT, FREEZE/FROST RESISTANT, GREEN, W/ (2) STATIONS. SEE SHEET C100 FOR DETAIL. FOUNTAIN TO BE INSTALLED BY OWNER. CONTRACTOR RESPONSIBLE FOR WATER SUPPLY.
13. ALL WATER AND ELECTRIC SHALL MEET AND BE INSTALLED PER LOCAL, STATE, AND FEDERAL CODES AND REQUIREMENTS. WATER SERVICE SHALL BE INSTALLED AT A DEPTH OF 48INCHES.
14. ELECTRIC SERVICE SHALL BE INSTALLED UNDERGROUND AS SHOWN WITH (1.5" MIN) SCHEDULE 80 CONDUIT AT A DEPTH OF 18INCHES MINIMUM.



EX. FEATURES LEGEND

EX. ASPHALT		FIRE HYDRANT	
EX. CONCRETE		WATER METER	
EX. BUILDING		WATER VALVE	
UNDERGRND. ELEC.		SIGN POLE	
UNDERGRND. TELE.		STREET LIGHT	
WATER		BOLLARD	
STORM PIPE		MAG NAIL FND.	
GAS		IRON PIN FND.	
TREE LINE			

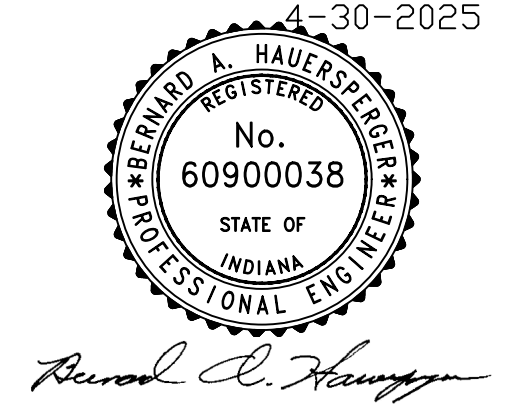
PLAN LEGEND

PROPOSED SHELTER BUILDING (SEE ARCHITECTURAL PLANS)	(A)
PROPOSED CONCRETE ADA PARKING (47 SYS)	(B)
PROPOSED 5ft SIDEWALK (38 SYS)	(C)
PROPOSED 4" WHITE STRIPING MATCH EXISTING (68LFT)	(D)
PROPOSED ADA SIGN W/BOLLARD (TYP) (SEE DETAIL SHEET C202)	(E)
PROPOSED ADA PARKING STRIPING (SEE DETAIL SHEET C202)	(F)
PROPOSED FLOW LINE (SEE GRADING PLAN SHEET C201)	(G)
PROPOSED 12" ADSN12 STORM PIPE W/ METAL END SECTIONS (SEE GRADING PLAN SHEET C201)	(H)
PROPOSED 5ft SIDEWALK AROUND SHELTER (SEE ARCHITECTURAL PLANS)	(I)
PROPOSED CONCRETE PAD (SEE ARCHITECTURAL PLANS)	(J)
ADA COMPLIANT FOUNTAIN (SEE SHEET C100)	(K)

GENERAL NOTE:
ALL CONSTRUCTION TO MEET OR EXCEED
ALL STATE, LOCAL, AND FEDERAL CODES &
REQUIREMENTS, INCLUDING BUT NOT
LIMITED TO CURRENT INDOT, ISBH, IDEM,
OSHA, LOCAL REQUIREMENTS & CODES.
THE DRAWINGS & SPECS. THAT MAKE UP
THE WORK OF THIS PROJECT ARE
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THE CONTRACTOR SHALL REVIEW ALL
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CONTRACT.

1. SHEET TO BE PLOTTED ON ARCH D 24"
X 36".

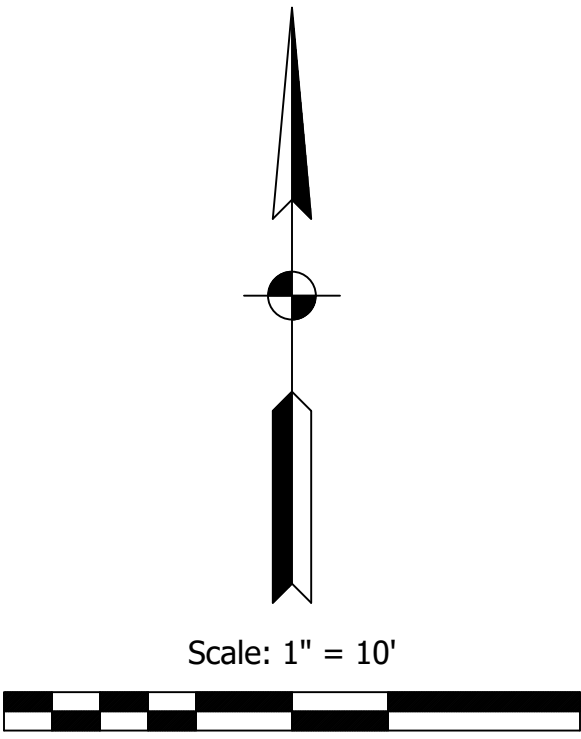
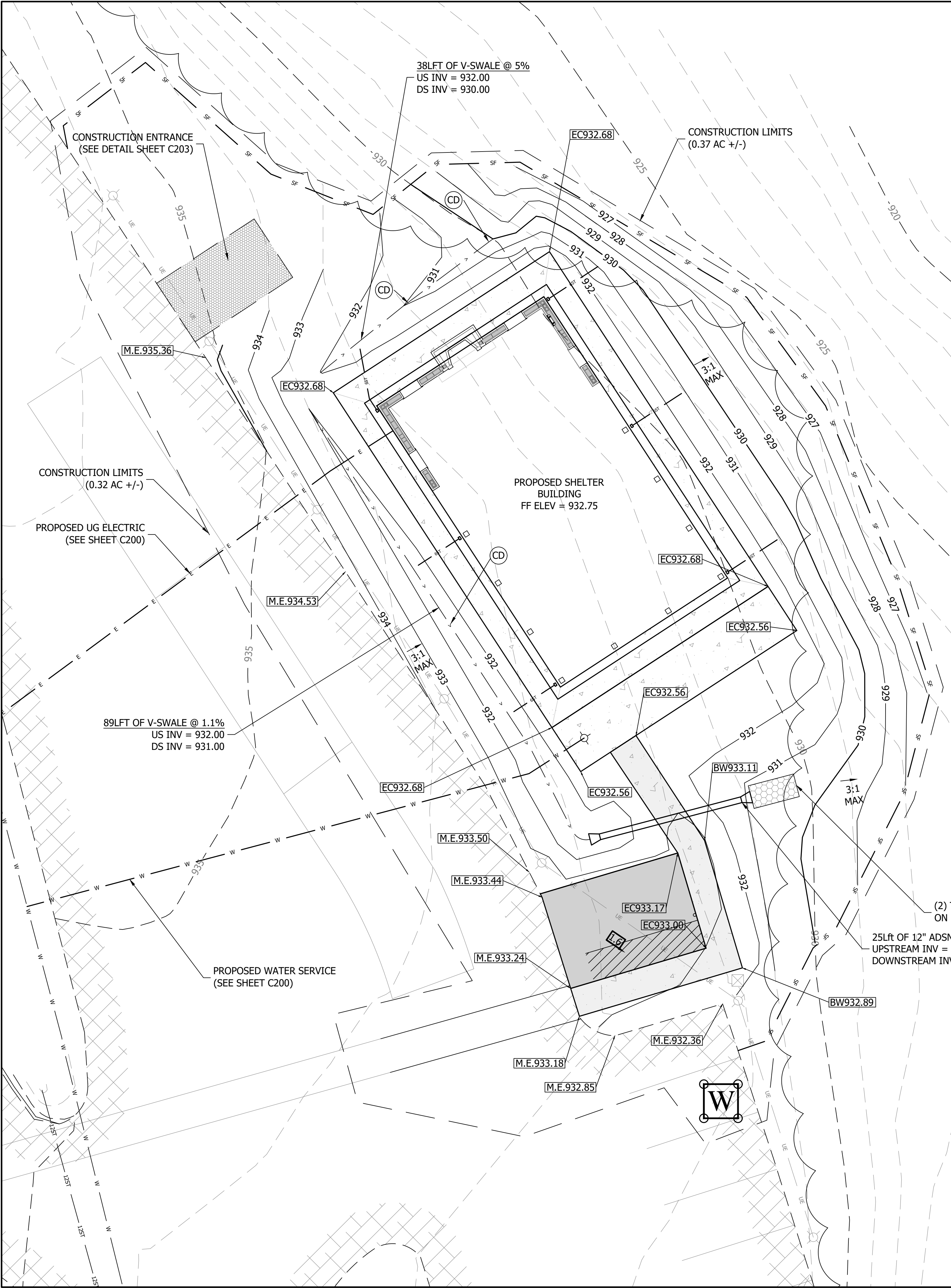
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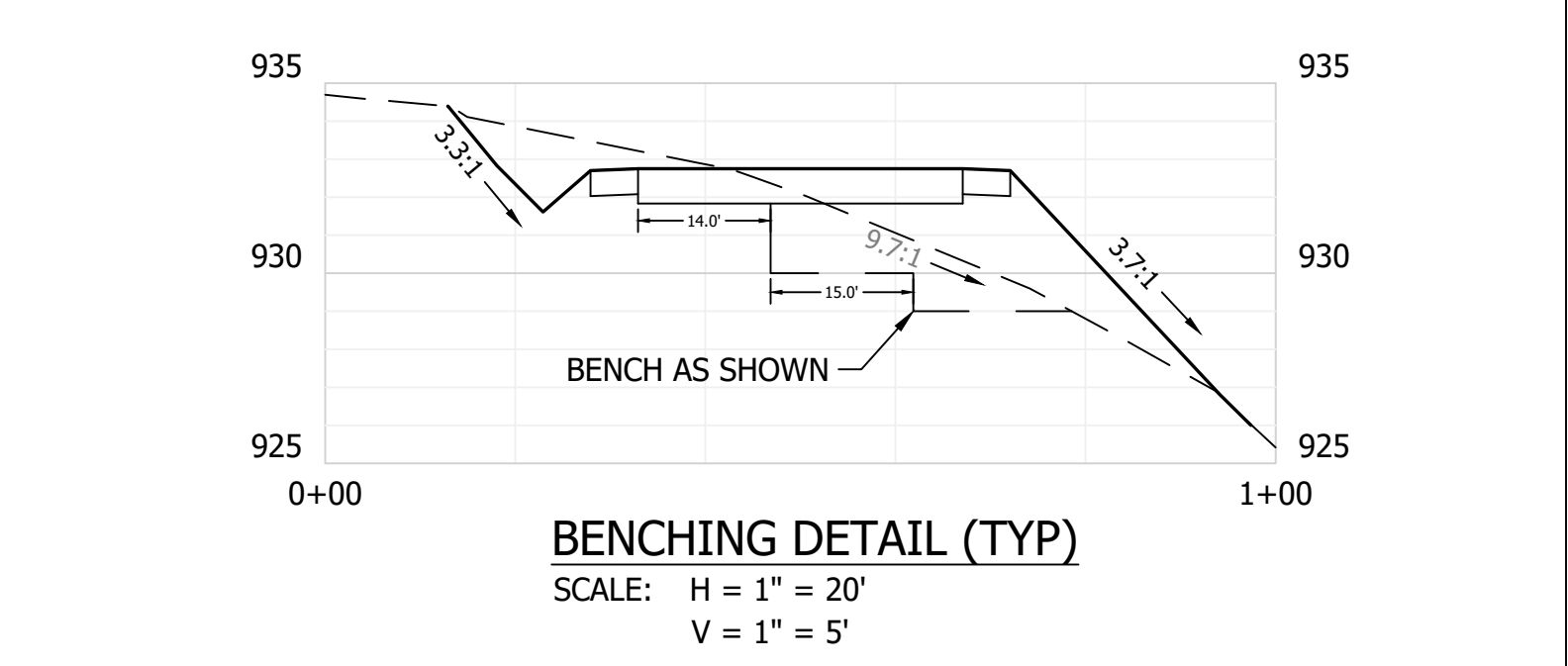
SCALE: AS SHOWN
DRAWN BY: ARC
CHECKED BY: BAH
DATE: MAY 15, 2025
JOB NO: 24-13559
CLIENT NAME:
INDIANA DEPARTMENT OF
NATURAL RESOURCES
PROJECT DESCRIPTION:
MORGAN-MONROE SHELTER
ENG2509637113
SHEET TITLE:
SITE PLAN

DESIGN PHASE:
CONSTRUCTION SET 4 OF 21

SHEET NUMBER:
C200



EARTHWORK QUANTITIES (TO SUBGRADE)
TOPSOIL STRIPPING (6" AVG OVER BUILDING & PARKING AREAS)
= 82 CYS (USE AS FILL IN GRASS AREAS)
COMMON EXCAVATION (CUT AFTER TOPSOIL STRIPPED): 101 CYS
FILL VOLUME: 287 CYS
BALANCE: 82 + 101 - 287 = (104 CYS IMPORT)
BALANCE SHOWN USES A SHRINK/SWELL FACTOR OF 1 TO 1.



GRADING PLAN NOTES

- SEE OVERVIEW AND CONTROL SHEET C100 FOR SITE CONTROL POINTS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE THROUGHOUT PROJECT LIMITS AS INDICATED ON THE PLANS.
- REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION PLANS AND OVERALL BUILDING OUTLINE. BUILDING STAKED OFF OF CIVIL PLANS OR CIVIL CAD FILES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS FOR ACCURACY.
- REFER TO ARCHITECTURAL PLANS FOR ROOF DOWNSPOUT LOCATIONS.
- ALL ADA PARKING SPACES SHALL BE ADA COMPLIANT. CROSS SLOPES SHALL NOT EXCEED 2%.
- SEE DETAIL SHEET C203 FOR EROSION CONTROL DETAILS.
- EROSION CONTROL BLANKET REQ'D ON SLOPES EXCEEDING 4:1. SEE SPECS FOR REQ'D EROSION CONTROL BLANKET REQUIREMENTS BELOW, NOTE 7.
- ALL DEBRIS SHALL BE SWEEPED FROM EXISTING PARKING AREAS AFTER EVERY WORK DAY TO MAINTAIN CLEAN AND UNRESTRICTED ACCESS TO THE EXISTING FACILITIES.
- PRIOR TO PLACING AGGREGATE SECTION ON SHELTER PAD AND ADA PARKING, SUBGRADE SHALL BE PROOF ROLLED WITH A FULLY LOADED TRIAXLE DUMP TRUCK (33 TON LOAD MIN). SOFT/PUMPING AREAS SHALL BE NOTED AND PROPERLY STABILIZED PRIOR TO PAVING.
- ALL FILL SHALL BE PLACED IN 6IN MAX LIFTS AND COMPACTED TO 95% MAX DRY DENSITY AS DETERMINED IN ACCORDANCE WITH AASHTO T99.

EROSION CONTROL NOTES

- PRIOR TO LAND DISTURBANCE, INSTALL SEDIMENT CONTROL MEASURES (SILT FENCE, INLET PROTECTION, ETC.) AS SHOWN TO PREVENT SEDIMENT DISCHARGE OFF THE SITE.
- CONTRACTOR SHALL STRIP TOPSOIL FROM CONSTRUCTION AREAS PRIOR TO PLACING ANY FILL MATERIALS. STRIPPED TOPSOIL SHALL BE REDISTRIBUTED OVER CONSTRUCTION AREA AFTER GRADING IS COMPLETE AND PRIOR TO MULCH SEEDING. CONTRACTOR SHALL FIELD VERIFY TOPSOIL THICKNESS AND PROVIDE 4" - 6" MINIMUM.
- INSTALL CONCRETE WASHOUT PRIOR TO POURING ANY CONCRETE. WASHOUT SHALL BE WATERTIGHT PER WASHOUT DETAIL OR DUMPSTER (3 CYD OR LARGER) LINED WITH PLASTIC. CONTRACTOR SHALL MONITOR WASHOUT AND ENSURE MINIMUM OF 12" OF FREEBOARD IS PROVIDED AT ALL TIMES IN WASHOUT. CONTRACTOR SHALL ALLOW WASH WATER TO EVAPORATE/HARDEN AND THEN DISPOSE OF HARDENED CONCRETE. IF DISPOSED OF ONSITE, CONCRETE SHALL BE COMPLETELY BURIED AND COVERED WITH 2 FEET OR MORE OF FILL DIRT.
- PERFORM FINAL GRADING AND COORDINATE WITH OWNER ON PERMANENT SEED STABILIZATION MIX. IF NO DIRECTION IS PROVIDED STABILIZE WITH PERMANENT SEED MIXTURE TYPE 'U' IN ACCORDANCE WITH CURRENT INDOT SPECIFICATION SECTION 621.06. APPLY FERTILIZER AND MULCH PER INDOT SPECIFICATION 621.05. SEEDING SHALL BE IN ACCORDANCE WITH INDOT SPEC SECTION 621.12 SEASONAL LIMITATIONS: WARRANTY BOND REQUIRED FOR SEEDING DONE BETWEEN OCTOBER 16 AND JANUARY 31. SEEDING WITHOUT MULCH SHALL NOT BE DONE BETWEEN MAY 1 AND AUGUST 15. AS PART OF FINAL GRADING AND STABILIZATION, CONTRACTOR SHALL REMOVE ANY SEDIMENT ACCUMULATED IN TRAPPING DEVICES. IMMEDIATELY SEED SLOPES WITH MULCH SEEDING TYPE U OR EROSION CONTROL BLANKET WITH SEEDING. TYPE U SEED MIX SHALL BE APPLIED AT 196.5LB/ACRE CONSISTING OF 100LB/ACRE 4-WAY BLEND OF TURF TYPE TALL FESCUE, 50LB/ACRE CREEPING RED FESCUE, 45 LB/ACRE OF PERENNIAL RYE GRASS AND 1.5 LB/ACRE WHITE DUTCH CLOVER. REFER TO INDOT SPEC SECTION 621 FOR ADDITIONAL DETAILS. IF SLOPES EXCEED 4:1, EROSION CONTROL BLANKET IS REQUIRED. SEE SPECS FOR REQUIREMENTS.
- AFTER PERMANENT EROSION CONTROL MEASURES (i.e. PERMANENT SEEDING) ARE WELL ESTABLISHED THE TEMPORARY EROSION CONTROL MEASURES (i.e. SILT FENCE, ETC.), SHALL BE REMOVED.
- SEE DETAIL SHEET C203 FOR ADDITIONAL INFORMATION ON EROSION CONTROL AND MONITORING AND MAINTENANCE.
- EROSION CONTROL BLANKET SHALL BE CURLEX NETFREE OR EQUAL. ALL FIBERS SHALL BE MADE INTO THE BLANKET FORM WITHOUT THE AID OF ANY NETTING. THIS ALSO EXCLUDES THE USE OF JUTE NETTINGS. PRODUCT SHALL BE APPROVED FOR SLOPES 3H:1V AND FLATTER. CONTRACTOR SHALL COORDINATE ALL EROSION CONTROL BLANKET WITH ENGINEER AND/OR OWNER BEFORE INSTALLATION.

EX. FEATURES LEGEND

EX. ASPHALT		FIRE HYDRANT	
EX. CONCRETE		WATER METER	
EX. BUILDING		WATER VALVE	
UNDERGRND. ELEC.		SIGN POLE	
UNDERGRND. TELE.		STREET LIGHT	
WATER		BOLLARD	
STORM PIPE		MAG NAIL FND.	
GAS		IRON PIN FND.	
TREE LINE			

PLAN LEGEND

PROPOSED CONTOUR	
PROPOSED STORM CULVERT W/METAL END SECTIONS (ADSN12) (PROVIDE INLET PROTECTION)	
PROPOSED DRAINAGE ARROW	
PROPOSED SILT FENCE	
MATCH EXISTING GRADE	
EDGE OF CONCRETE GRADE	
BACK OF WALK GRADE	
TEMP. CHECK DAM (SEE SHEET C203)	
CONCRETE WASHOUT (SEE SHEET C203)	
PERCENT GRADE DIRECTION	

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- SHEET TO BE PLOTTED ON ARCH D 24" X 36".

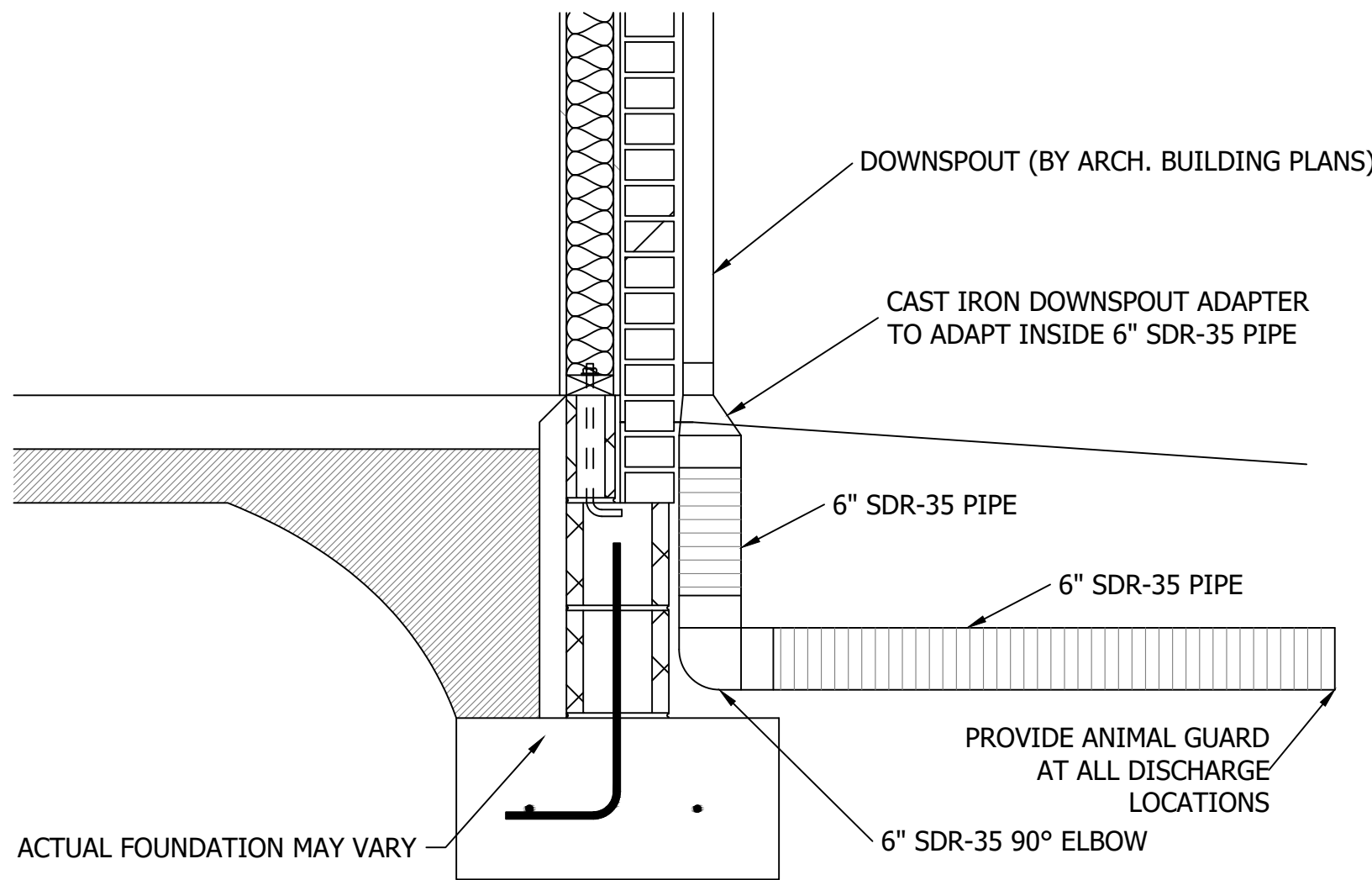
Revision	Drawn By	Date



SCALE: AS SHOWN
DRAWN BY: ARC
CHECKED BY: BAH
DATE: MAY 15, 2025
JOB NO: 24-13559
CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES
PROJECT DESCRIPTION: MORGAN-MONROE SHELTER ENG2509637113
SHEET TITLE: GRADING PLAN

DESIGN PHASE: CONSTRUCTION SET 5 OF 21
--

SHEET NUMBER:
C201

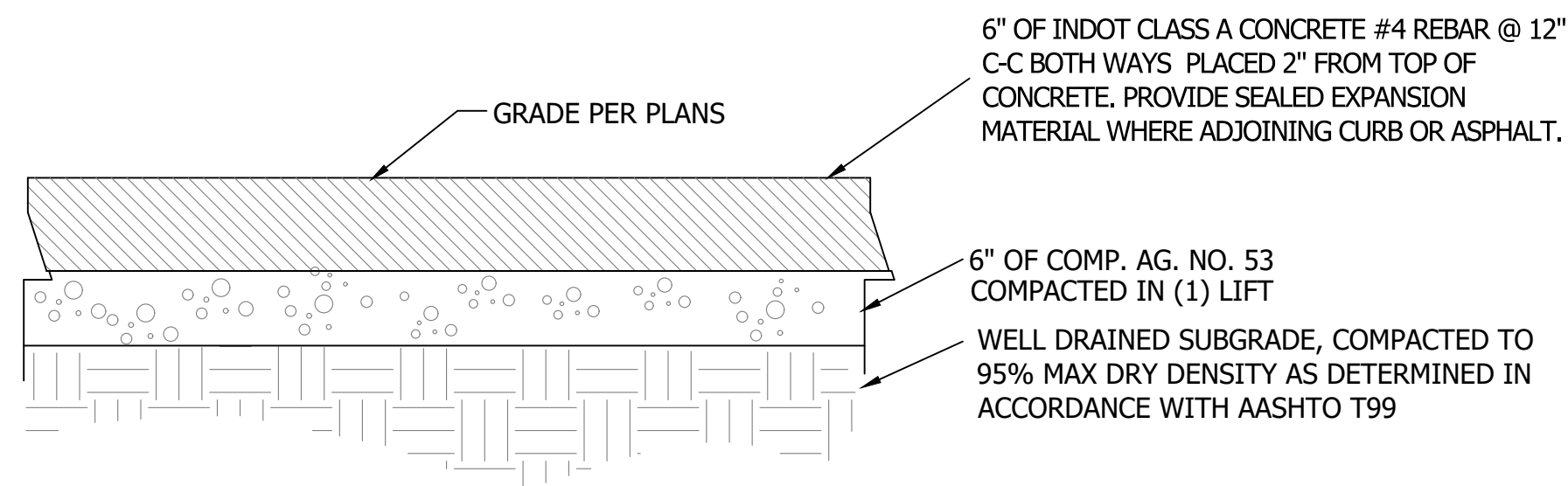


(TYP) DOWNSPOUT CONNECTION DETAIL

NOT TO SCALE

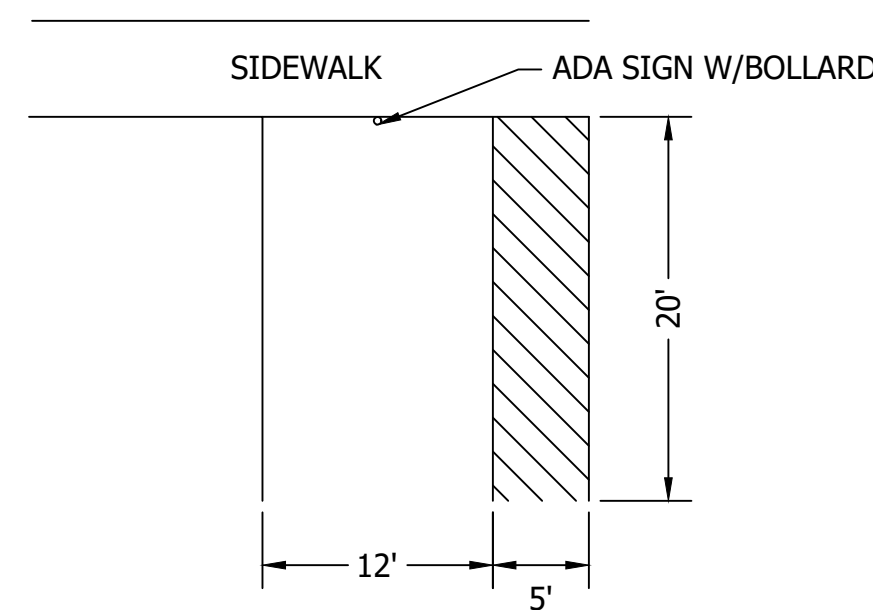
DOWNSPOUT CONNECTION - GENERAL NOTES

1. All material substitutions must be approved by Owner and Engineer.
2. Downspout locations vary. Refer to architectural plans and field verify all depths and locations.
3. All subgrade downspout pipes and fittings to be 6" SDR-35.
4. Typical downspout connections to the roof drain line shown below.
5. Downspout manifold piping if required to be 6" SDR-35.



B CONCRETE ADA PARKING (TYP SECTION)

NOT TO SCALE

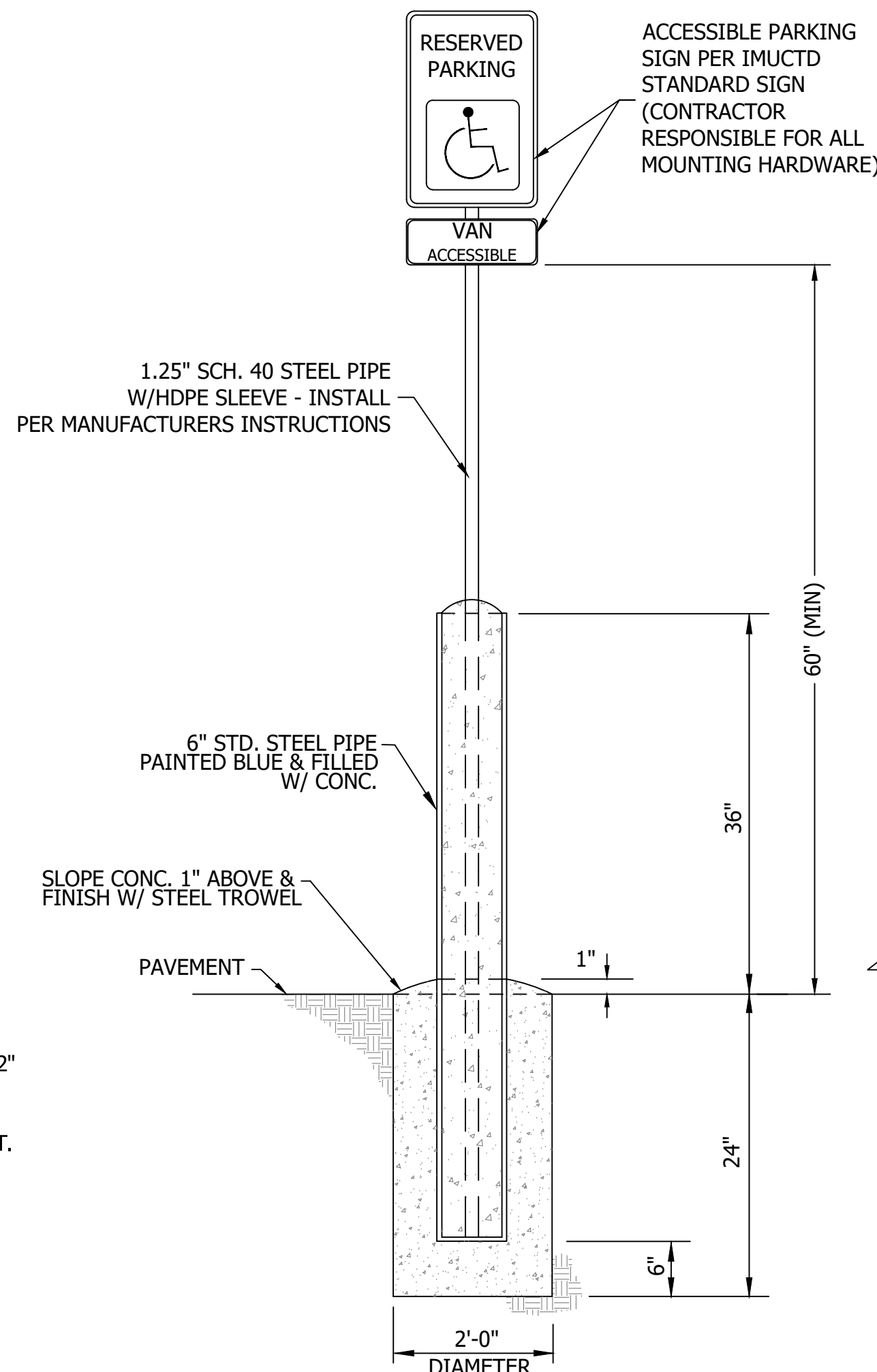


ADA STRIPING PLAN

NOT TO SCALE

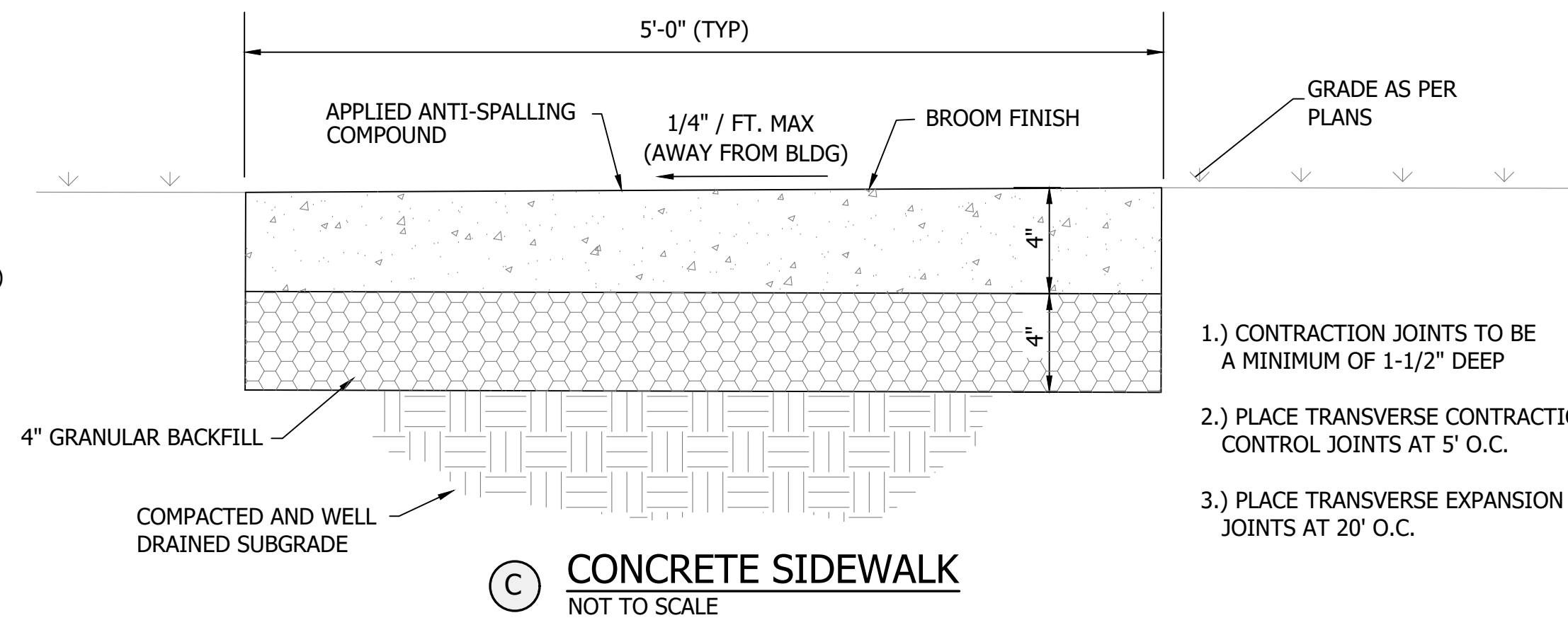
NOTE:

1. ADA SIGN POST SHALL HAVE A BLUE 6" BOLLARD. ADA SIGN SHALL MEET ALL ADA REQUIREMENTS REGARDING INSTALLATION. SEE DETAIL THIS SHEET.
2. STRIPING SHALL BE THERMOPLASTIC.

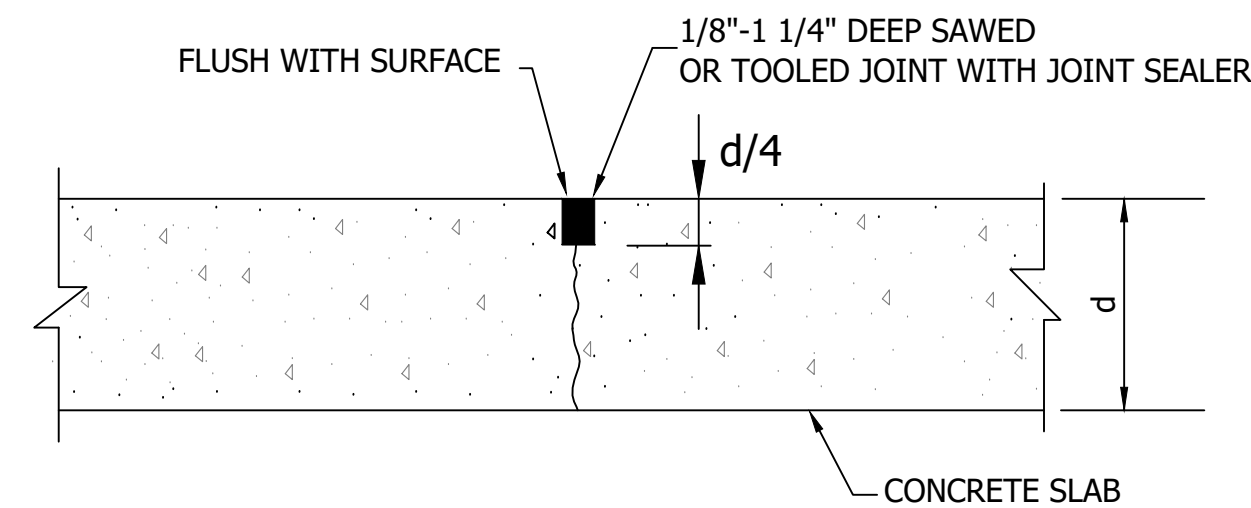


E ADA BOLLARD SIGN DETAIL

NOT TO SCALE

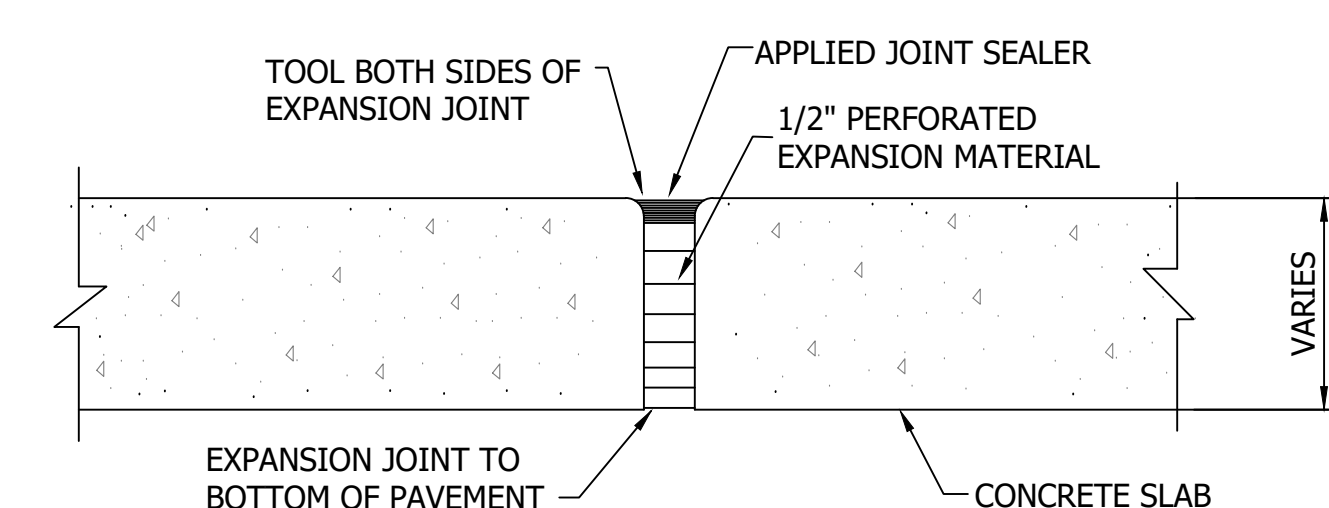


- 1.) CONTRACTION JOINTS TO BE A MINIMUM OF 1-1/2" DEEP
- 2.) PLACE TRANSVERSE CONTRACTION CONTROL JOINTS AT 5' O.C.
- 3.) PLACE TRANSVERSE EXPANSION JOINTS AT 20' O.C.



STANDARD CONTROL JOINT

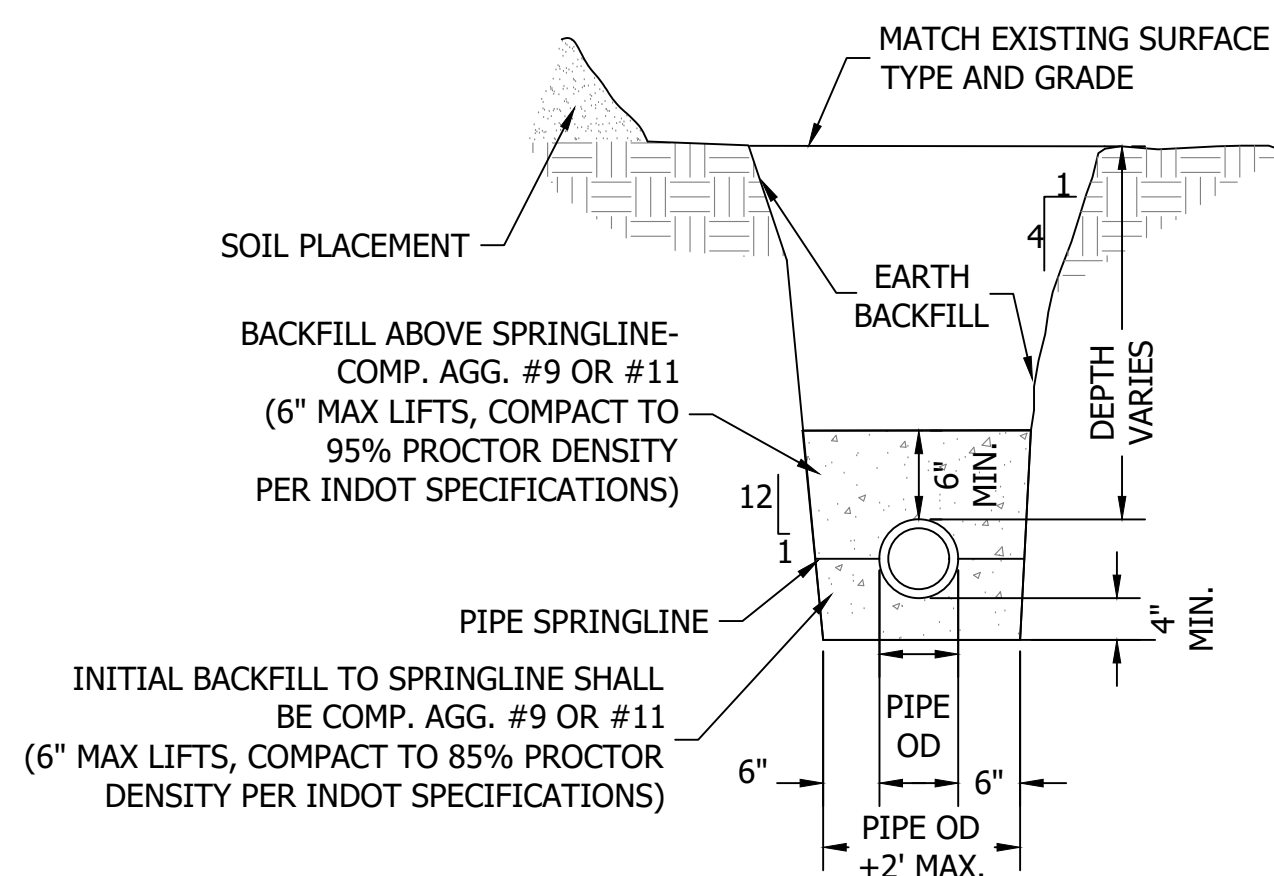
NOT TO SCALE



STANDARD EXPANSION JOINT

NOT TO SCALE

CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR APPROVAL PRIOR TO CONCRETE WORK.

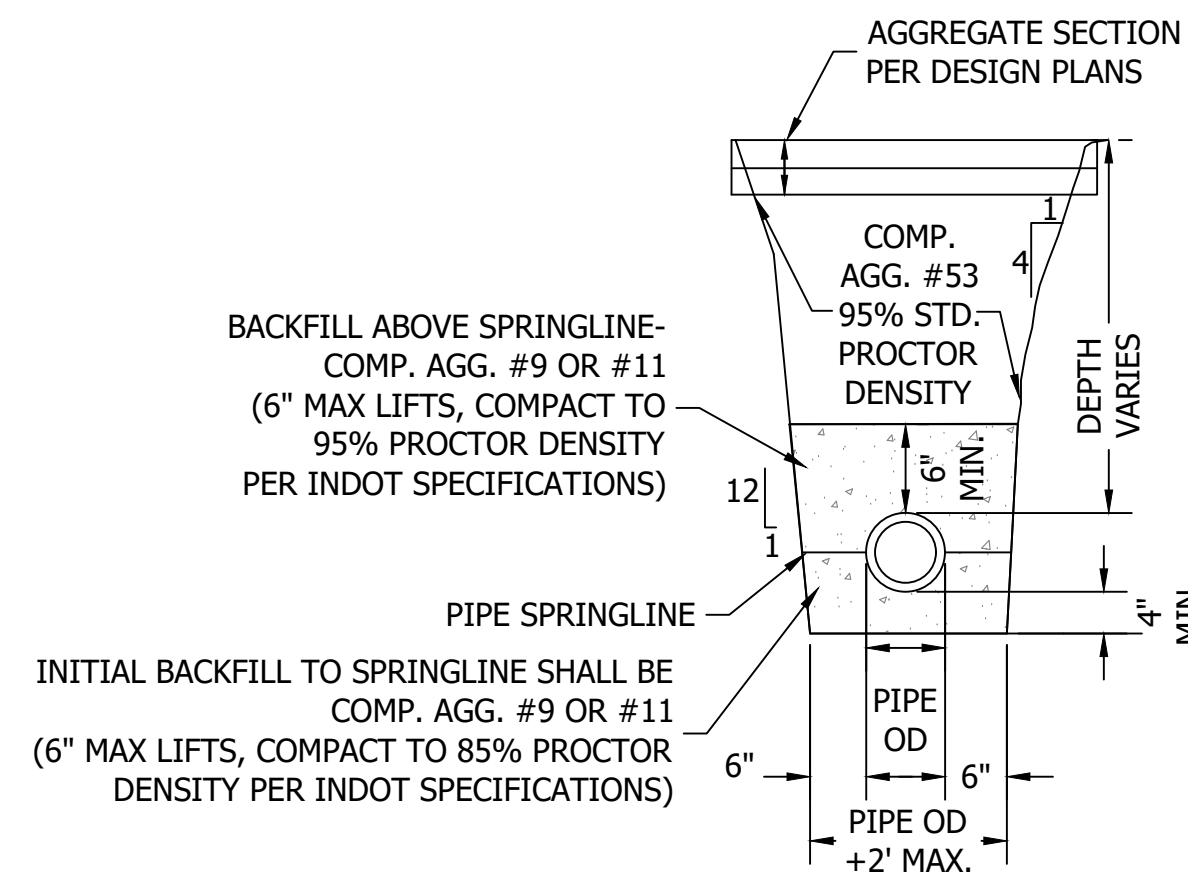


STANDARD TRENCH DETAIL (NON-PAVED AREAS)

NOT TO SCALE

NOTES

- 1) WHERE WITHIN 5' OF PAVEMENT AND UNDER PAVEMENT BACKFILL WITH GRANULAR BACKFILL PER INDOT SPECIFICATIONS MECHANICAL COMPACTION TO 95% PROCTOR DENSITY. EARTH BACKFILL IN 6" COMPACTED LIFTS THROUGHOUT YARD AREAS.
- 2) GRANULAR BACKFILL PLACED AND COMPACTED PER INDOT 2024 SPECIFICATIONS AND SUPPLEMENTS.
- 3) MEET OR EXCEED ALL OSHA STANDARDS REGARDING TRENCH PROTECTION.
4. THIS DETAIL VALID FOR ROOF DRAINS, STORM SEWERS, SANITARY SEWER & WATER SERVICE LINES . PROVIDE DETECTION WIRE ON WATER LINES.



STANDARD TRENCH DETAIL (PAVED AREAS - WITHIN 5' OF PAVEMENT)

NOT TO SCALE

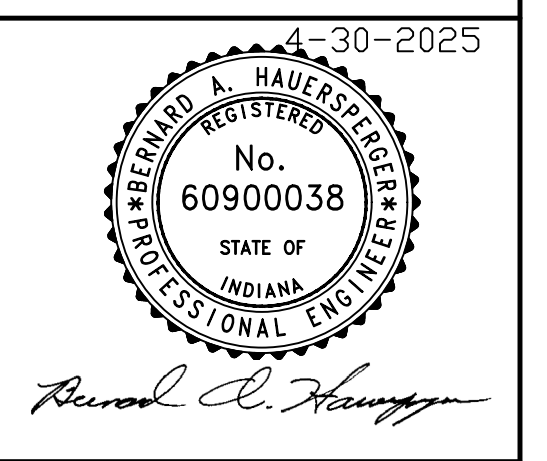
NOTES

- 1) FULL DEPTH COMPACTED AGGREGATE #53S SHALL GO TO BOTTOM OF PAVEMENT SECTION.
- 2) GRANULAR BACKFILL PLACED AND COMPACTED PER INDOT STANDARDS AND SPECIFICATIONS.
- 3) MEET OR EXCEED ALL OSHA STANDARDS REGARDING TRENCH PROTECTION.
4. THIS DETAIL VALID FOR ROOF DRAINS, STORM SEWERS, SANITARY SEWER & WATER SERVICE LINES . PROVIDE DETECTION WIRE ON WATER LINES.
5. TRENCH DEPTHS SHALL BE PER PLANS AND SHALL MEET MANUFACTURER'S REQUIREMENTS AS WELL AS LOCAL/STATE/FEDERAL REQUIREMENTS.

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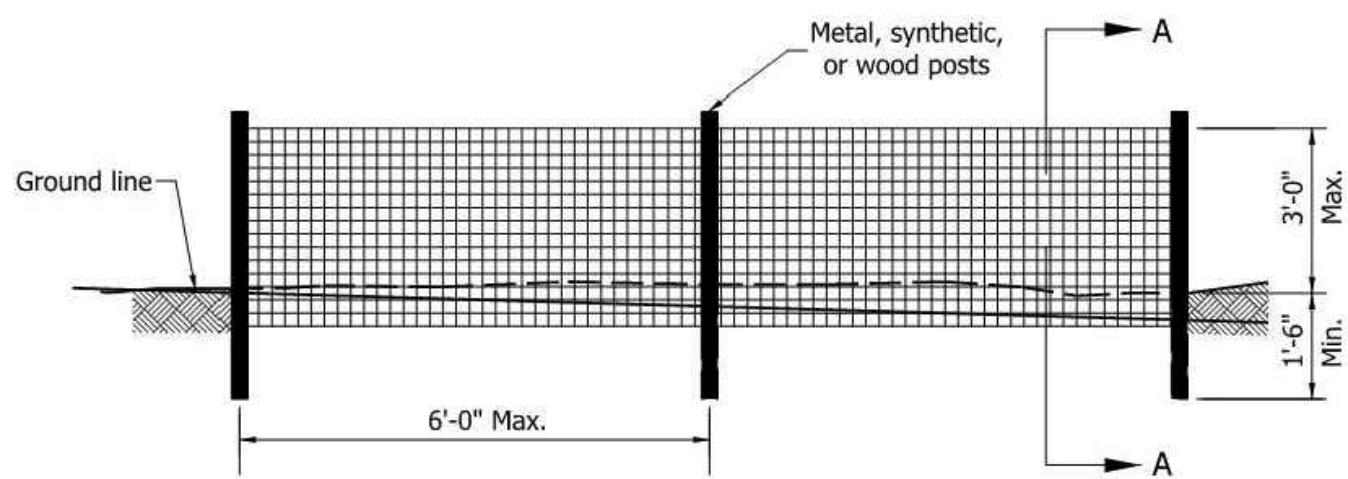
Revision	Drawn By	Date



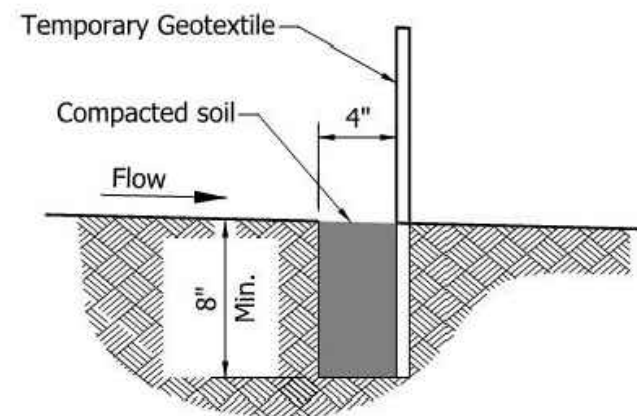
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DRAWN BY: ARC
CHECKED BY: BAH
DATE: MAY 15, 2025
JOB NO: 24-13559
CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES
PROJECT DESCRIPTION: MORGAN-MONROE SHELTER ENG2509637113
SHEET TITLE: DETAILS (1 OF 2)

DESIGN PHASE:
CONSTRUCTION SET 6 OF 21

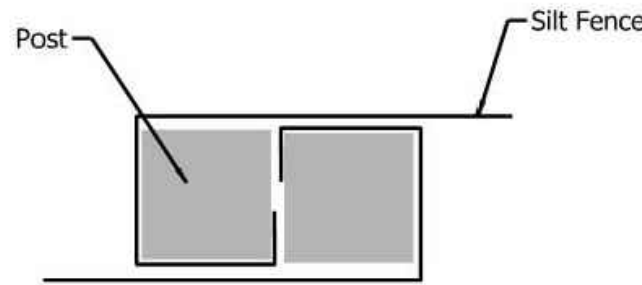
SHEET NUMBER:
C202



SILT FENCE ELEVATION



SECTION A-A

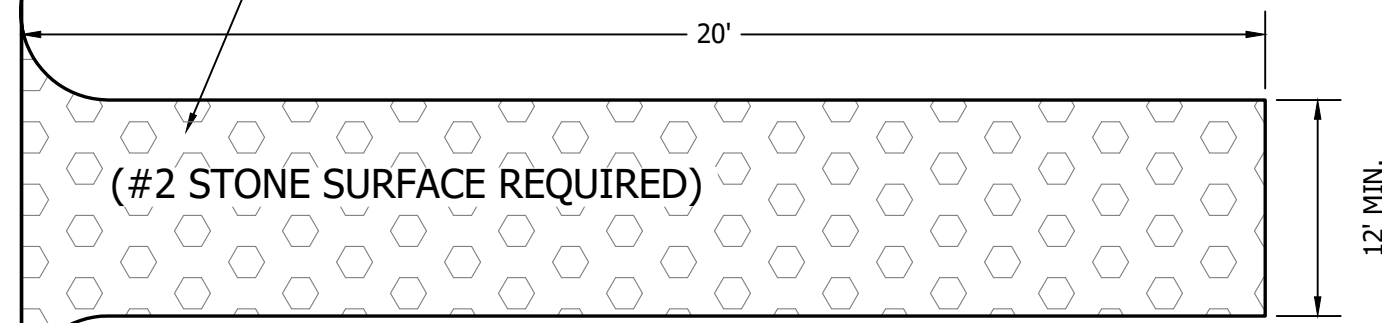


JOINT DETAIL
PLAN VIEW

****TEMPORARY SILT FENCE (PER INDOT STD. DWG E205-TECP-11)**
NOT TO SCALE

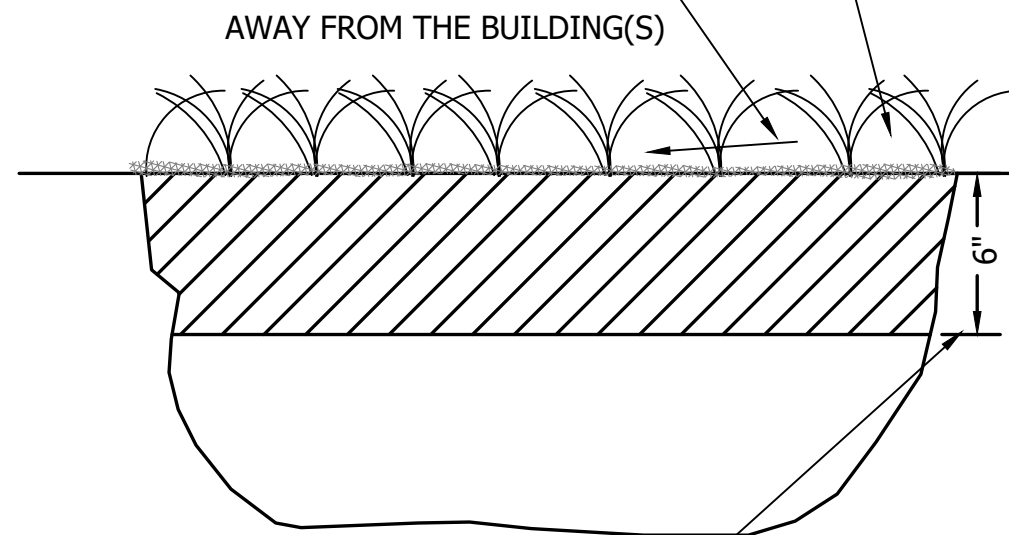
EXISTING PUBLIC ROADWAY

PROVIDE 20' LONG X 12' WIDE (MIN.)
CONSTRUCTION ENTRANCE WITH
12" THICK LAYER OF #2 STONE.
CONTRACTOR RESPONSIBLE FOR ANY
DRIVE PERMITS REQUIRED FOR NEW DRIVES.



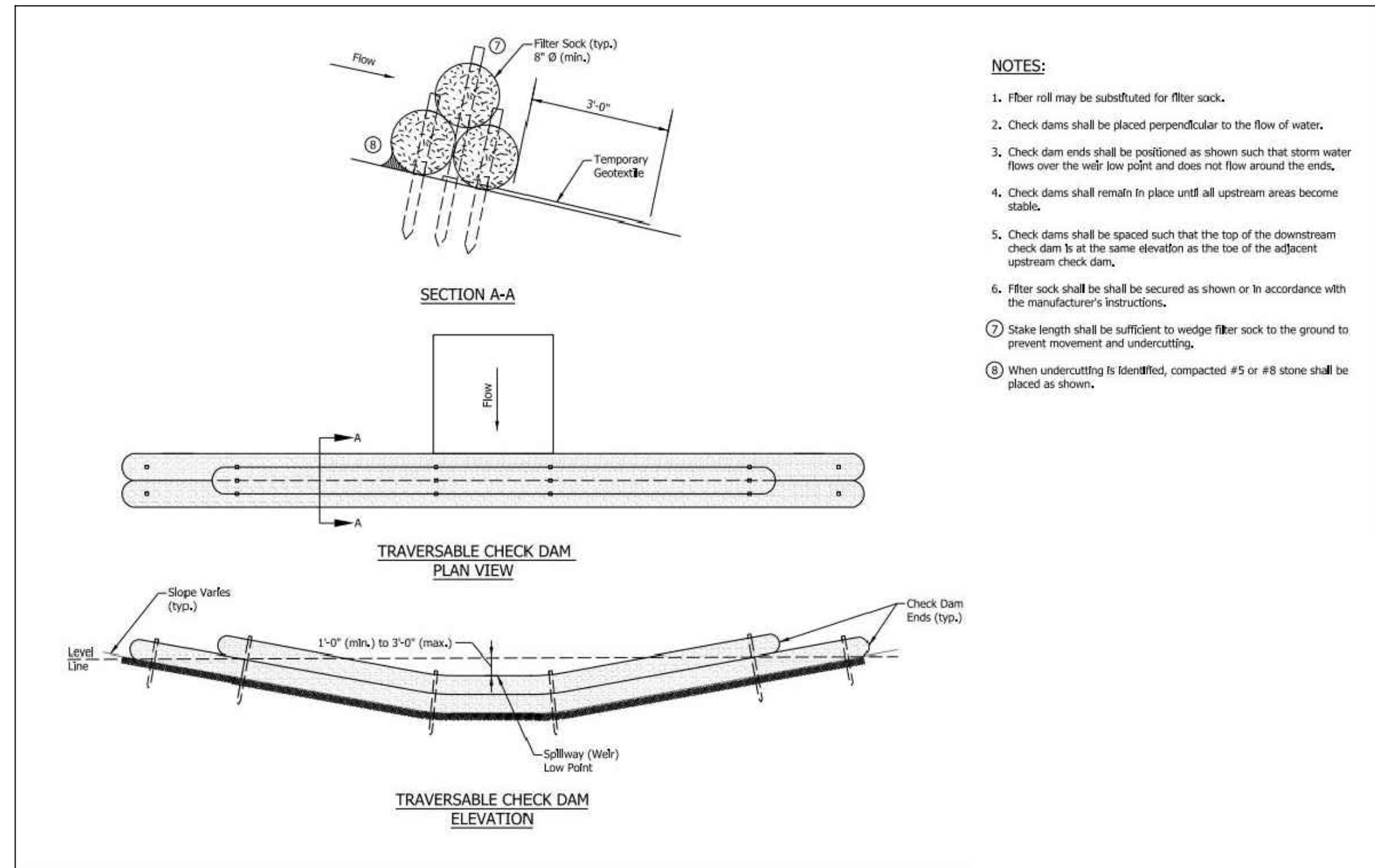
CONSTRUCTION ENTRANCE
NOT TO SCALE

MULCH SEED URBAN TYPE REQUIRED PER CURRENT
SPECS. SEE SHEET C201 FOR
MULCHING, FERTILIZER AND OTHER REQUIREMENTS.



TOP 6" OF DIRT IN
LAWN AREAS SHALL BE
CLEAN LOOSE TOPSOIL

LAWN AREA
NOT TO SCALE



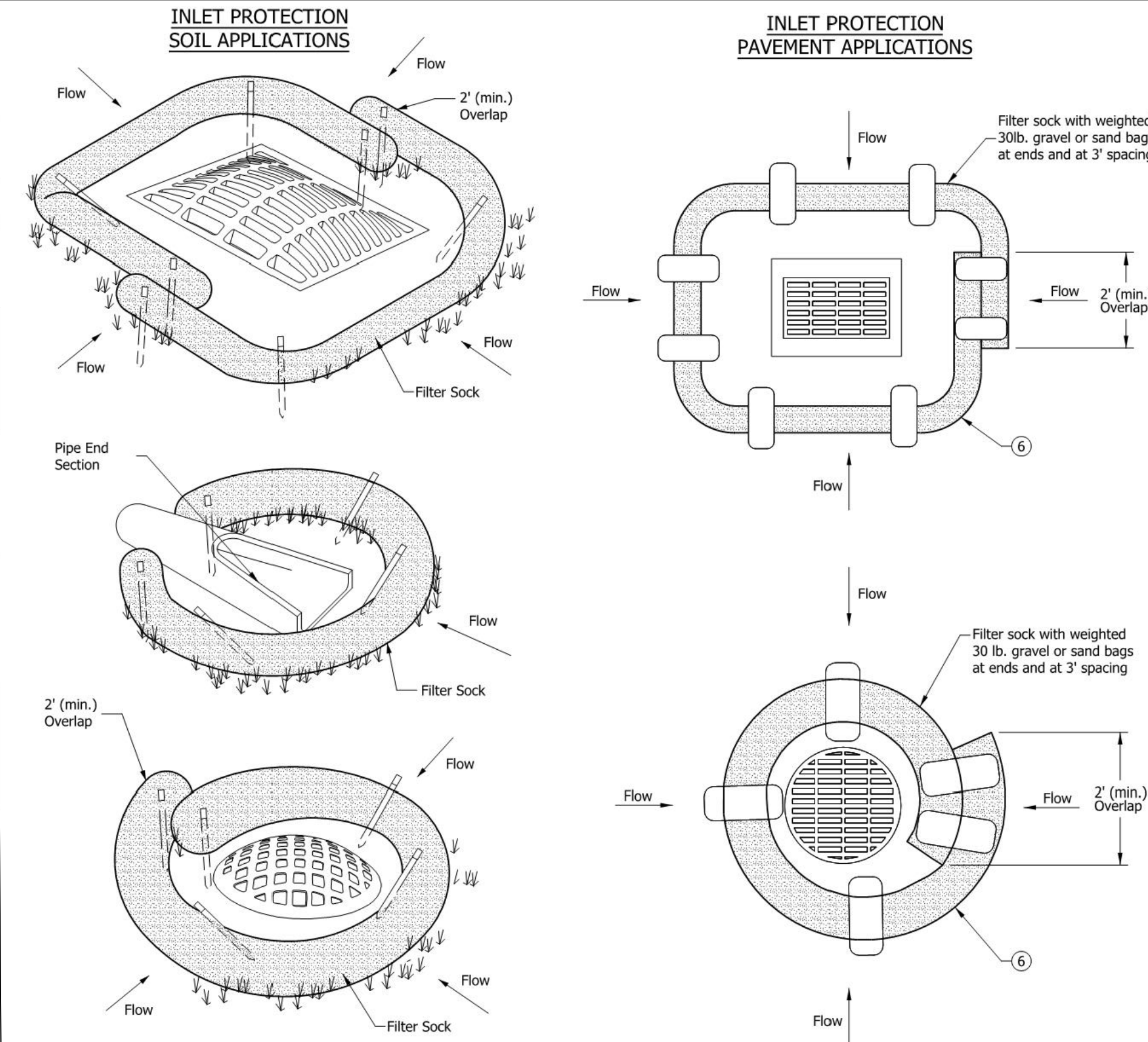
****TEMPORARY CHECK DAM (PER INDOT STD. DWG E205-TECP-08)**
NOT TO SCALE

****FILTER SOCK MAINTENANCE & MONITORING REQUIREMENTS**

1. Inspect within 24 hours of a rain event and at least once every seven calendar When installed in a series at intervals on a slope, inspection should be done daily.
2. Remove accumulated sediment when it reaches one-quarter the height of the filter sock. Inspect to ensure that the sock is maintaining its integrity and producing adequate flow.
3. Repair eroded and damaged areas. If ponding becomes excessive, socks should be removed and either reconstructed or new product installed. Reseed, if applicable.
4. If the filter sock is not designed as a permanent filter or part of the natural landscape and the contributing drainage area has been stabilized, use a blade or knife to cut open sock and use a bulldozer, loader, rake, or other device to incorporate the organic material into the soil, or spread it over the top of the soil surface for final seeding. Remove and dispose of sock if necessary.

****SILT FENCE MAINTENANCE & MONITORING REQUIREMENTS**

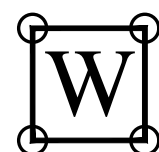
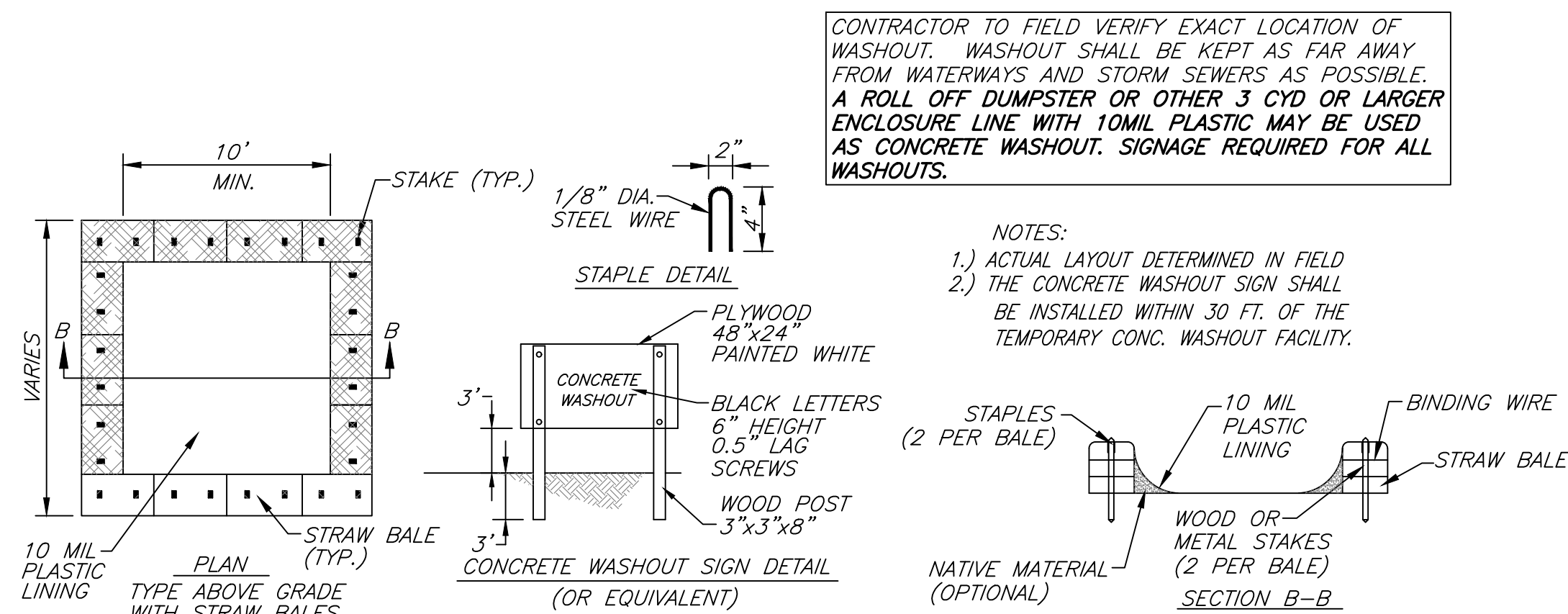
1. Inspect within 24 hours of a rain event and at least once every seven calendar When installed in a series at intervals on a slope, inspection should be done daily.
2. Remove accumulated sediment when it reaches one-quarter the height of the silt fence. Inspect to ensure that the fence is maintaining its integrity and producing adequate flow.
3. Repair eroded and damaged areas. If ponding becomes excessive, fence should be removed and either reconstructed or new product installed. Reseed, if applicable.



NOTES:

1. Fiber roll may be substituted for filter sock.
2. Filter sock shall be secured to prevent movement and undercutting as shown or in accordance with the manufacturer's instructions. See Standard Drawing E 205-TECD-10 for securing methods.
3. Inlet protection shall be inspected, at a minimum once every seven days and after each storm event. Sediment shall be removed when 1/3 of the filter sock depth has been filled or as directed.
4. Sediment and gravel deposited on roadways shall be removed once identified after each storm event.
5. Inlet protection shall be removed after the surrounding area becomes stable.
- 6 Inlet protection shall be used within a lane or shoulder only when closed to traffic. Inlet protection shall not cause water to encroach upon a lane open to traffic.

TEMPORARY INLET PROTECTION (E205-TECD-02)
NOT TO SCALE

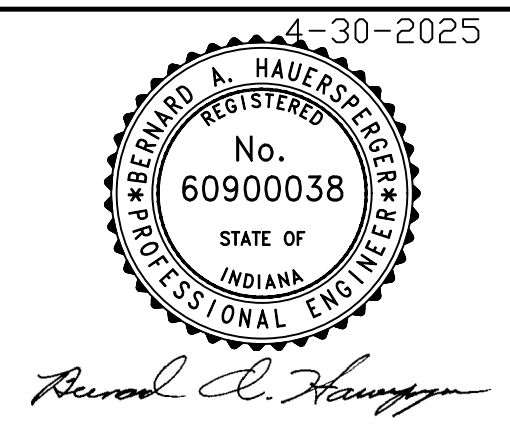


CONCRETE WASHOUT DETAIL
NOT TO SCALE

GENERAL NOTE:
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CONTRACT.

1. SHEET TO BE PLOTTED ON ARCH D 24"
X 36".

Revision	Drawn By	Date



SCALE: AS SHOWN
DRAWN BY: ARC
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DATE: MAY 15, 2025
JOB NO: 24-13559
CLIENT NAME: INDIANA DEPARTMENT OF NATURAL RESOURCES
PROJECT DESCRIPTION: MORGAN-MONROE SHELTER ENG2509637113
SHEET TITLE: DETAILS (2 OF 2)
DESIGN PHASE: CONSTRUCTION SET 7 OF 21
SHEET NUMBER:

C203

GENERAL NOTES

DESIGN DATA

1. CODES AND STANDARDS: (ALL WORK SHALL CONFORM WITH THE FOLLOWING BUILDING CODES AND STANDARDS)

A) GENERAL DESIGN: INTERNATIONAL BUILDING CODE, 2012 EDITION (IBC), IN ACCORDANCE WITH INDIANA 2014 BUILDING CODE WITH AMENDMENTS.

B) DESIGN LOADS: ASCE'S "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE/SEI 7-10).

C) REINFORCED CONCRETE DESIGN: ACI'S "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318-11).

D) STRUCTURAL MASONRY: ACI'S "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" (ACI 530-11/ASCE 5-11/TMS 602-11) AND "ACI'S SPECIFICATION FOR MASONRY STRUCTURES" (ACI 530-11/ASCE 6-11/TMS 602-11).

E) WOOD DESIGN: AMERICAN WOOD COUNCIL, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" (ANSI/AWC NDS-2012).

2. SOIL INFORMATION:

ALLOWABLE NET BEARING PRESSURE, COLUMN FOOTING_____1000 PSF

ALLOWABLE NET BEARING PRESSURE, WALL FOOTING_____1000 PSF

SUB-GRADE REACTION (K30)_____100 PCI

3. RISK CATEGORY (IBC TABLE 1604.5)_____CATEGORY II

4. LIVE LOADS (IBC TABLE 1607.1)

ROOF_____20 PSF + SNOW DRIFT CONSIDERATIONS

5. WIND LOADS (IBC SECTION 1609 AND ASCE 7)

BASIC WIND SPEED / ULTIMATE DESIGN WIND SPEED_____115 MPH

NOMINAL DESIGN WIND SPEED (ASD)_____89 MPH

EXPOSURE_____B

INTERNAL PRESSURE COEFFICIENT, GCPI_____+/- 0.18

COMPONENTS AND CLADDING

ROOF_____20 PSF

NET UPLIFT PRESSURE_____20 PSF

ROOF EDGE ZONES UPLIFT_____44 PSF

ROOF CORNER ZONES UPLIFT_____75 PSF

WALLS_____26 PSF

MAIN REGIONS_____26 PSF

CORNERS AND EDGES_____30 PSF

6. SEISMIC LOADS: FOR PRIMARY SYSTEMS (IBC SECTION 1613 AND ASCE 7)

IMPORTANCE FACTOR (DETERMINED FROM RISK CATEGORY)_____1.00

SITE CLASS (USE CLASS "D" UNLESS SOIL REPORT PROVIDES)_____D

DESIGN SPECTRAL RESPONSE ACCELERATIONS

SHORT PERIOD, S_{0.2}_____0.217

1-SECOND PERIOD, S_{1.0}_____0.159

SEISMIC DESIGN CATEGORY_____B

7. DEAD LOADS:

WEIGHT OF MATERIALS AS DETERMINED BY SYSTEMS SELECTED

COLLATERAL LOAD FOR MECHANICAL, ELECTRICAL, SPRINKLERS, ETC. OF 5 PSF.

8. SNOW DESIGN CRITERIA (IBC SECTION 1608 AND ASCE 7)

GROUND SNOW LOAD, P_g_____20 PSF

IMPORTANCE FACTOR, I_____1.00

THERMAL FACTOR_____1.20

EXPOSURE FACTOR_____1.20

FLAT ROOF SNOW LOAD, P_f_____21 PSF

DRIFTING AND UNBALANCED SNOW_____PER IBC AND ASCE 7

MATERIALS:

1. CONCRETE:

PORTLAND CEMENT (GRAY)_____ASTM C150 TYPE I OR II

WATER_____CLEAN AND POTABLE

COARSE AGGREGATE_____CRUSHED STONE, INDOT SIZE #5, ASTM C33

FINE AGGREGATE_____SAND, INDOT SIZE #25, ASTM C33

AIR ENTRAINING ADMIXTURE_____ASTM C260

HIGH RANGE WATER REDUCING ADMIXTURE_____ASTM C494, TYPE F OR G

SYNTHETIC FIBER REINFORCING_____3/4" VIRGIN NYLON FIBERS, BY NYCON INC. OR APPROVED EQUAL

PATCHING MATERIAL:

FIVE STAR STRUCTURAL CONCRETE BY U.S. GROUT CORPORATION

EMACO S77 C1 BY BASF CONSTRUCTION CHEMICALS

APPROVED EQUAL

CONCRETE CURING COMPOUND_____ASTM C309, TYPE-1, CLASS "B"

A) NON-STAINING ACRYLIC TYPE CURING COMPOUND.

B) COMPATIBLE WITH APPLIED SEALERS AND FINISHES SPECIFIED FOR THE CONCRETE SURFACES.

C) PROVIDE A COMBINATION CURING COMPOUND AND SEALER.

EXPANSION JOINT FILLER:

PROVIDE PREFORMED, LOW ABSORPTIVE, BITUMINOUS, CLOSED CELL RUBBER, OR CORK JOINT FILLER. JOINTS SHALL BE 1/2 INCH THICK BY THE FULL THICKNESS OF THE SLAB AND SHALL HAVE REMOVABLE PLASTIC CAPS WHERE JOINTS ARE EXPOSED TO VIEW OR ARE TO BE COVERED WITH SEALANT.

2. REINFORCING STEEL:

STIRRUPS, TIES, AND MAIN REINFORCING BARS_____ASTM A615, GRADE 60, F_y = 60 KSI

WELDED WIRE FABRIC_____ASTM A1064

MATERIALS (CONT.)

3. STRUCTURAL STEEL:

ANGLES, CHANNELS, AND PLATES_____ASTM A36, F_y = 36 KSI

BASE PLATES_____ASTM A36, F_y = 36 KSI

ALL OTHER MEMBERS_____ASTM A36, F_y = 36 KSI

HEADED STUD CONNECTIONS_____ASTM A108, 3/4" DIA. x 4 1/2" LONG (U.O.N.)

CONNECTION BOLTS_____3/4" DIA. A307 BEARING TYPE WITH STANDARD 1/316" DIA. HOLES (U.O.N.)

ANCHOR RODS_____ASTM A307, ASTM F1554, GRADE 36 OR ASTM A36

NUTS_____ASTM A563 HEAVY HEX NUTS

WASHERS_____ASTM F436 TYPE 1 HARDENED CARBON STEEL WASHERS

WELDING ELECTRODES FOR CARBON STEEL_____AWS E70XX

4. MASONRY:

A) HOLLOW LOAD BEARING BLOCK TO BE ASTM C90, TYPE-1, GRADE N, NOMINAL FACE DIMENSIONS 8" X 16". PROVIDE NORMAL WEIGHT UNITS BELOW GRADE AND LIGHTWEIGHT UNITS ABOVE GRADE, UNLESS OTHERWISE NOTED. PROVIDE CONCRETE MASONRY UNITS WITH A NET AREA COMPRESSIVE STRENGTH OF NOT LESS THAN 2800 PSI. (F_m = 2000 PSI FOR TYPE "S" MORTAR).

B) MORTAR SHALL BE TYPE "S" MORTAR CONFORMING WITH ASTM C270. MORTAR PROPORTIONS SHALL CONFORM WITH MORTAR PROPORTION REQUIREMENTS OF ASTM C270.

C) HORIZONTAL JOINT REINFORCEMENT SHALL BE PLACED EVERY OTHER COURSE. USE STANDARD TRUSS TYPE REINFORCEMENT (#6 SIDE RODS AND #9 CROSS RODS) UNLESS OTHERWISE NOTED.

D) UNLESS OTHERWISE NOTED, MASONRY CORES (WHERE SPECIFIED ON DRAWINGS) AND BOND BEAMS SHALL BE FILLED WITH CONCRETE GROUT MEETING THE FOLLOWING REQUIREMENTS: (ASTM C476) MINIMUM 2500 PSI 28-DAY COMPRESSIVE STRENGTH WITH 3/8" MAXIMUM AGGREGATE AND 7" MAXIMUM SLUMP.

5. POST INSTALLED ANCHORS:

A) ALTERNATE ANCHORS SHALL BE SUBMITTED FOR APPROVAL BY THE ENGINEER.

B) ADHESIVE:

1) HILTI HIT-HY 200 FOR CONCRETE

2) HILTI HIT-HY 70 FOR MASONRY

C) THREADED RODS:

1) HILTI HAS-E

2) HILTI HIT-Z

3) ASTM A193, GRADE B7

4) ASTM F1554, GRADE 55

D) MECHANICAL ANCHORS:

1) HILTI KWIK BOLT-TZ

2) HILTI KWIK BOLT-HUS-EZ

3) HILTI HDA UNDERCUT ANCHOR

6. HEAVY TIMBER:

A) ALL HEAVY TIMBER HARVESTED AND SEASONED FROM LOCAL FORESTS.

B) POST AND MAIN HEAMS: WHITE OAK, NO. 2

C) TRUSS FRAMING: RED OAK AND BLACK OAK, NO. 2

D) PURLINS AND DECKING: YELLOW POPLAR, NO. 2

E) CONNECTORS: ASTM A307 OR ASTM F1554, GRADE 36 BOLTS OR THREADED BOLT WITH MATCHING NUT AND WASHER. ALL CONNECTOR PLATES, BOLTS THREADED RODS, NUTS, AND WASHERS TO BE GALVANIZED.

COATINGS FOR STEEL

1. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE GALVANIZED:

- APPLY ZINC COATING BY THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A123. FILL VENT AND DRAIN HOLES UNLESS THEY FUNCTION AS WEEP HOLES BY PLUGGING WITH ZINC SOLDER AND FILING OFF SMOOTH. GALVANIZE ALL LINTELS AND SHELF ANGLES LOCATED IN EXTERIOR WALLS. TOUCH-UP WITH ZINC RICH PAINT ALL AREAS WHERE ZINC COATING HAS BEEN REMOVED OR DAMAGED TO A WIDTH GREATER THAN 1/8" IN ACCORDANCE WITH ASTM A780.

2. USE GALVANIZED BOLTS, NUTS, AND WASHERS FOR FASTENING GALVANIZED STRUCTURAL AND MISCELLANEOUS STEEL. WHERE ZINC COATED TWIST OFF BOLTS ARE UTILIZED, TOUCH UP EXPOSED BOLT ENDS USING GALVANIZING REPAIR PAINT.

SPECIAL NOTES:

1. WHERE DISCREPANCY MAY OCCUR BETWEEN THE DRAWINGS AND A GENERAL NOTE OR TYPICAL DETAIL THE DRAWINGS SHALL PREVAIL.

2. THE CONTRACTOR SHALL VERIFY RESPONSIBILITY FOR CONTRACTING TESTING AND INSPECTION SERVICES AS DEFINED IN THESE NOTES.

3. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYRS, AND THE GUYING. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.

4. STRUCTURAL DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M.E.P., AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS. ALL FLOOR AND ROOF OPENINGS, DEPRESSIONS, AND SLOPES, ETC. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LIMITING CONSTRUCTION LOADS SUCH THAT THESE LOADS DO NOT EXCEED THE DESIGN LIVE LOADS NOTED ABOVE. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AS REQUIRED DURING CONSTRUCTION TO SUPPORT CONSTRUCTION LOADS UNTIL SUCH TIME THAT THE STRUCTURE IS ABLE TO SUPPORT THE DESIGN LIVE LOADS NOTED.

EXISTING CONDITIONS:

1. VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS BEFORE PROCEEDING WITH NEW CONSTRUCTION. NOTIFY THE ARCHITECT / ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK IN THE AREA UNDER QUESTION.

2. PREVENT UNDERMINING OF EXISTING ROADWAYS AND THE FOUNDATIONS OF EXISTING STRUCTURES. TAKE PROTECTIVE MEASURES TO PREVENT DAMAGE TO THE EXISTING FACILITIES. DO NOT EXCAVATE BELOW THE BOTTOM OF EXISTING FOUNDATION WITHOUT FIRST UNDERPINNING THEM.

COORDINATE WITH OTHER TRADES:

1. THE GENERAL CONTRACTOR SHALL COORDINATE AND CHECK ALL DIMENSIONS RELATING TO ARCHITECTURAL FINISHES, MECHANICAL OPENINGS, EQUIPMENT, ETC. THE ARCHITECT / ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK IN THE AREA UNDER QUESTION.

2. THERE SHALL BE NO VERTICAL OR HORIZONTAL SLEEVES SET, OR HOLES CUT OR DRILLED IN ANY JOIST, BEAM OR COLUMN UNLESS IT IS SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE ARCHITECT / ENGINEER IN WRITING.

3. MECHANICAL OPENINGS THROUGH CONCRETE SLABS AND WALLS LARGER THAN 8" IN DIAMETER, NOT SHOWN ON THE STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE ARCHITECT / ENGINEER. ALL OPENINGS 8" IN DIAMETER OR LESS SHALL HAVE AT LEAST 1'-0" CLEAR BETWEEN THE OPENINGS UNLESS APPROVED BY THE ARCHITECT / ENGINEER.

4. DO NOT INSTALL ELECTRICAL CONDUIT IN ELEVATED SLABS, OR SLAB-ON-GRADE UNLESS APPROVED BY THE ENGINEER.

FOUNDATIONS AND EARTHWORK:

1. PREPARE ALL AREAS OF THE SITE SUPPORTING STRUCTURE BY REMOVING ALL TOP SOIL, EXISTING FILL, ORGANIC MATERIAL, OR FROZEN WET, SOFT, LOOSE OR OTHERWISE UNSUITABLE MATERIALS.

2. PROOF ROLL THE EXPOSED SUB-GRADE BELOW DRIVES, WALLS, AND BUILDING FLOOR SLABS WITH A MEDIUM WEIGHT ROLLER TO DETERMINE IF ANY POCKETS OF SOFT, UNSUITABLE MATERIAL EXIST BENEATH THE EXPOSED SUB-GRADE. REMOVE ANY UNSUITABLE MATERIAL ENCOUNTERED AND REPLACE WITH PROPERLY COMPACTED GRANULAR FILL MATERIAL. COMPACT SUB-GRADE TO 95% MODIFIED MAXIMUM DRY DENSITY (ASTM D1557).

FOUNDATIONS AND EARTHWORK (CONT.)

3. COMPACT ALL GRANULAR FILL BENEATH SLAB-ON-GRADE, SIDEWALKS, AND PAVEMENT, OR OVER FOOTINGS TO 95% MODIFIED MAXIMUM DRY DENSITY (ASTM D1557). INCREASE THE COMPACTATION REQUIREMENTS FOR ENGINEERED FILL SUPPORTING FOOTINGS TO 97% MODIFIED MAXIMUM DRY DENSITY (ASTM D1557). COMPACT ALL BACKFILL NOT SUPPORTING SLAB, PAVEMENT OR FOOTING TO 90% MODIFIED MAXIMUM DRY DENSITY (ASTM D1557). PLACEMENT, COMPACTON, AND MATERIAL USED FOR FILL SHALL BE APPROVED AND OVERSEEN BY THE TESTING AGENCY.

4. PLACE ALL FILL MATERIALS IN LAYERS NOT EXCEEDING 6" IN LOOSE THICKNESS AND NOT MORE THAN 4" IN LOOSE THICKNESS FOR MATERIAL COMPACTED BY HAND OPERATED TAMPERS. MECHANICALLY COMPACT EACH LAYER TO AT LEAST THE REQUIRED MINIMUM DRY DENSITY. FIELD DENSITY TESTS WILL BE PERFORMED ON EACH LIFT AS REQUIRED TO ENSURE ADEQUATE MOISTURE LEVELS AND COMPACTON ARE ACHIEVED. PLACEMENT, COMPACTON, AND MATERIAL USED FOR FILL SHALL BE APPROVED AND OVERSEEN BY THE TESTING AGENCY.

5. FOOTINGS SHALL BEAR ON FIRM, UNDISTURBED MATERIAL. IF UNSUITABLE MATERIAL IS ENCOUNTERED, RE-ESTABLISH THE BEARING ELEVATION OF THE FOOTING BY LOCALIZED UNDER-CUTTING AND FILLING WITH SUITABLE ENGINEERED FILL OR CONCRETE AS RECOMMENDED BY THE TESTING AGENCY.

6. A TESTING AGENCY SHALL VERIFY THAT THE SOIL BEARING CAPACITY IS ACCEPTABLE AT EACH COLUMN FOOTING AND AT 8'-0" INTERVALS ALONG WALL FOOTINGS AT THE INDICATED BEARING ELEVATIONS.

7. PLACE FOOTINGS THE SAME DAY EXCAVATIONS ARE OPENED. IF THIS IS NOT POSSIBLE, ADEQUATELY PROTECT THE EXPOSED MATERIAL IN THE BASES OF THE FOOTING EXCAVATIONS FROM ANY DETRIMENTAL CHANGE IN CONDITION SUCH AS FROM DISTURBANCE, RAIN, OR FREEZING. SURFACE RUNOFF SHALL NOT BE ALLOWED TO ENTER EXCAVATIONS.

8. PLACE ALL FOOTINGS IN WOOD FORMS (UNLESS SPECIFIC APPROVAL IS RECEIVED FROM THE ENGINEER OF RECORD).

9. CENTER ALL COLUMN AND WALL FOOTINGS UNDER THE COLUMN OR WALL ABOVE UNLESS OTHERWISE INDICATED.

10. ALL BACKFILL PLACED AGAINST CONCRETE WALLS SHALL BE GRANULAR FILL MATERIAL.

11. PLACE SLAB-ON-GRADE ON 6" OF PROPERLY COMPACTED, GRANULAR FILL MATERIAL.

12. ENGINEERED FILL SHALL BE CLEAN, WELL GRADED AND FREE DRAINING IN ITS COMPACTED STATE. THE MATERIAL SHALL BE APPROVED BY THE TESTING AGENCY. IN LIEU OF TESTING AGENCY RECOMMENDATIONS, PROVIDE ONE OF THE FOLLOWING MATERIALS FOR ENGINEERED FILL:

A) CLASS "A" CONCRETE

B) CERTIFIED "B" BORROW FROM AN APPROVED INDIANA DEPARTMENT OF TRANSPORTATION SOURCE

C) CERTIFIED TYPE 2 STRUCTURE BACKFILL FROM AN APPROVED INDIANA DEPARTMENT OF TRANSPORTATION SOURCE.

13. GRANULAR FILL SHALL BE CRUSHED STONE OR PIT RUN GRAVEL. MATERIAL MUST HAVE 100% PASSING A 1" SIEVE AND A MAXIMUM OF 5% PASSING THE 200 SIEVE.

14. IF CONSTRUCTION OCCURS WITH THE COOLER, WETTER MONTHS, IT SHOULD BE ANTICIPATED THAT A COMBINATION OF SOIL AND SEASONAL WEATHER CONDITIONS WILL BE PRESENT DURING CONSTRUCTION THAT WILL RESULT IN SUB-GRADE THAT IS EXCESSIVELY WET, SOFT OR YIELDING. THIS CONDITION MAY BE MITIGATED BY SCARIFYING AND DRYING, OR USING CHEMICAL STABILIZATION (WITH A SUITABLE LIME BY-PRODUCT).

15. POSITIVE DRAINAGE OF SURFACE WATER, INCLUDING EXISTING AND NEW BUILDING DOWNPOUT DISCHARGE, SHOULD BE MAINTAINED AWAY FROM STRUCTURE FOUNDATIONS TO AVOID WETTING AND WEAKENING OF FOUNDATION SOILS BOTH DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION OF ANY APPROPRIATE DEWATERING NEEDED.

CONCRETE:

1. ALL CONCRETE MATERIALS AND THE MIXING, HANDLING, PLACING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH THE CURRENT BUILDING CODE REQUIREMENTS AND ACI 301, 305, 306, AND 318.

2. DO NOT PLACE DURING RAIN, SLEET OR SNOW WITHOUT ADEQUATE PROTECTION.

3. SUBMIT A MIX DESIGN FOR EACH CLASS OF CONCRETE SPECIFIED.

4. PROVIDE ADEQUATE TESTING AND REPORTS FOR ALL CLASSES OF CONCRETE FROM AN APPROVED TESTING LABORATORY.

5. PROVIDE 3/4" CHAMFERS ON ALL EXPOSED CORNERS OF CONCRETE EXCEPT THOSE ABUTTING MASONRY.

6. CONCRETE MIX CLASSES:

CLASS "A" CONCRETE:

(1) COMPRESSIVE STRENGTH AT 28-DAYS OF 3000 PSI

(2) MINIMUM CEMENT CONTENT OF 420 LB/CY YARD

(3) MAXIMUM WATER CEMENT RATIO OF 0.58

(4) AIR CONTENT: OPTIONAL

(5) SLUMP MUST BE 8" TO 8"

CLASS "B" CONCRETE:

(1) COMPRESSIVE STRENGTH AT 28-DAYS OF 4000 PSI

(2) MINIMUM CEMENT CONTENT OF 440 LB/CY YARD

(3) MAXIMUM WATER CEMENT RATIO OF 0.50

(4) AIR CONTENT: OPTIONAL

(5) SLUMP MUST BE 8" TO 8"

CLASS "C" CONCRETE:

(1) COMPRESSIVE STRENGTH AT 28-DAYS OF 3500 PSI

(2) MINIMUM CEMENT CONTENT OF 470 LB/CY YARD

(3) MAXIMUM WATER CEMENT RATIO OF 0.40

(4) AIR CONTENT: NONE

(5) HIGH RANGE WATER REDUCING ADMIXTURE REQUIRED

(6) SLUMP MUST BE 8" TO 8"

(7) SYNTHETIC FIBER REINFORCING REQUIRED WHERE NOTED

(8) DO NOT AIR ENTRAIN SLABS WITH A TROWEL FINISH

CLASS "D" CONCRETE:

(1) COMPRESSIVE STRENGTH AT 28-DAYS OF 3500 PSI

(2) MINIMUM CEMENT CONTENT OF 470 LB/CY YARD

(3) MAXIMUM WATER CEMENT RATIO OF 0.40

(4) AIR CONTENT: NONE

(5) HIGH RANGE WATER REDUCING ADMIXTURE REQUIRED

(6) SLUMP MUST BE 8" TO 8"

(7) SUBSTITUTE PEA GRAVEL, COARSE AGGREGATE AT METAL PAN STAIRS AND LANDINGS

FLYASH MEETING ASTM C618 TYPE "C" WITH MAXIMUM LOSS ON IGNITION OF 1.5 PERCENT AND THE MAXIMUM AMOUNT RETAINED WHEN WET-SIEVED ON NO. 325 SIEVE OF 30%. FLYASH MAY BE USED TO SUBSTITUTE FOR CEMENT WITH A MAXIMUM OF 20% WEIGHT.

8. ALL CONCRETE EXPOSED TO WEATHER, PERMANENT OR TEMPORARY, SHALL BE AIR ENTRAINED.

9. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER WHEN REINFORCEMENT AND EMBEDD PLACEMENT FOR A POUR IS NEARING COMPLETION SO THAT THE INSTALLED ITEMS MAY BE REVIEWED, ALLOW SUFFICIENT TIME FOR THE ENGINEER TO SCHEDULE FIELD TIME AND SETTERS TO MAKE ADJUSTMENTS OR CORRECTIONS PRIOR TO PLACING CONCRETE.

10. CONCRETE FINISHING:

A) NON-SLIP BROOM FINISH:

1) APPLY NON-SLIP BROOM FINISH TO EXTERIOR CONCRETE PLATFORMS, STEPS, AND RAMPS, AND ELSEWHERE AS INDICATED.

B) ROUGH FORM FINISH: FOR FORMED CONCRETE SURFACES NOT EXPOSED TO VIEW IN THE FINISHED WORK OR CONCEALED BY OTHER CONSTRUCTION.

1) RUB DOWN OR CHIP OFF ALL FINIS AND OTHER PROJECTIONS EXCEEDING 1/4" IN HEIGHT.

2) REPAIR ALL DEFECTIVE AREAS IN A MANNER ACCEPTABLE TO THE ARCHITECT / ENGINEER.

CONCRETE (CONT.)

11. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE HOT OR COLD TEMPERATURES. MAINTAIN CONCRETE IN A MOIST CONDITION FOR AT LEAST FIVE DAYS AT TEMPERATURES ABOVE 70° OR FOR AT LEAST SEVEN DAYS AT TEMPERATURES ABOVE 50°.

REINFORCING STEEL:

1. ALL REINFORCING STEEL BENDS, HOOKS, LAP SPICES AND MINIMUM CONCRETE COVER SHALL CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR STRUCTURAL REINFORCED CONCRETE" (ACI 318) UNLESS OTHERWISE INDICATED.

2. SLAB BOLSTERS, HIGH CHAIRS, BEAM BOLSTERS, AND ALL OTHER ACCESSORIES IN CONTACT WITH THE FORMS FOR EXPOSED CONCRETE, BOTH INTERIOR AND EXTERIOR, SHALL BE PLASTIC TYPED, SUCH ACCESSORIES SHALL HAVE TURNED UP LEGS.

3. ALL DETAILS OF REINFORCING STEEL FABRICATION AND PLACEMENT SHALL CONFORM TO ACI "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 318R) UNLESS OTHERWISE INDICATED. ALL REINFORCING STEEL SHALL BE SUPPORTED AND SECURED AGAINST DISPLACEMENT IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTITUTE'S "MANUAL OF STANDARD PRACTICE".

4. THE SHOP DRAWINGS FOR REINFORCING STEEL INCLUDE 1/4" SCALE ELEVATIONS OF ALL CONCRETE WALLS AND BEAMS AND ALL SECTIONS REQUIRED TO MAKE CLEAR THE LOCATION OF THE REINFORCING STEEL. SHOW SLAB-BAR SUPPORTS ON SHOP DRAWINGS. USE ONLY #5 BARS WITH INDIVIDUAL HIGH CHAIRS FOR SUPPORT OF THE TOP SLAB BARS. ANCHOR ALL TOP BARS BY STANDARD EMBEDMENT OR 90° HOOK UNLESS OTHERWISE DETAILED. OVERHANGING TAILS SHALL BE SUPPORTED POSITIVELY.

5. ALL CONCRETE REINFORCEMENT MATERIALS SHALL BE NEW, FREE FROM RUST AND ANY SUBSTANCE THAT WOULD PREVENT BONDING OF THE CONCRETE TO THE STEEL.

6. CONCRETE REINFORCING SHALL HAVE THE FOLLOWING MINIMUM PROTECTION (U.O.N.):

A) CONCRETE PLACED AGAINST AND PERMANENTLY EXPOSED TO EARTH_____3"

B) CONCRETE PLACED IN FORMS BUT EXPOSED TO EARTH OR WEATHER

1) #5 BARS AND SMALLER_____1 1/2"

2) #6 BARS AND LARGER_____1 1/2"

C) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND

1) SLABS, WALLS AND JOISTS

a) #11 BARS AND SMALLER_____3/4"

b) #14 AND #18 BARS_____1 1/2"

2) BEAMS, COLUMNS PRIMARY REINFORCING TIES, STIRRUPS, SPIRALS_____1 1/2"

7. SET DOVELS, COLUMNS OR PIER MAIN BARS, AND ANCHOR RODS WITH WOOD POSITIONING TEMPLATES AT TOP OF FOOTING AND AT FLOOR LEVELS AND BRACE AGAINST DISPLACEMENT.

8. PROVIDE FOOTING POWELS FOR ALL VERTICAL WALL REINFORCEMENT. POWELS SHALL BE THE SAME SIZE AND SPACING AS THE VERTICAL WALL REINFORCEMENT, UNLESS OTHERWISE NOTED WITH LAP SPICES AS INDICATED.

9. POSITION DOVELS FOR VERTICAL WALL REINFORCEMENT IN COLUMN FOOTINGS AND WALL FOOTING STEPS WITH 6" MAXIMUM BOTTOM COVER.

10. PROVIDE CLASS "B" TENSION LAP SPICES FOR ALL REINFORCEMENT UNLESS OTHERWISE NOTED.

CLASS "B" TENSION LAP SPICE SCHEDULE

BAR SIZE

LAP LENGTH

#3 BAR

19"

#4 BAR

25"

#5 BAR

31"

#6 BAR

37"

#7 BAR

54"

#8 BAR

62"

#9 BAR

70"

#10 BAR

79"

NOTES:

1. PROVIDE SCHEDULED LAP LENGTH UNLESS OTHERWISE NOTED ON DRAWINGS.

2. ALL LAPS ARE FOR 4000 PSI CONCRETE OR STRONGER. INCREASE LAPS BY 15% FOR 3000 PSI CONCRETE.

3. INCREASE LAPS BY 30% FOR HORIZONTAL LAP SPICES WITH MORE THAN 1'-0" OF FRESH CONCRETE PLACED BELOW THE LAPPED BARS.

4. INCREASE LAPS BY 50% FOR EPOXY COATED BARS.

5. INCREASE LAPS BY 50% WHERE CLEAR SPACING BETWEEN BARS IS LESS THAN (2) BAR DIAMETERS OR CLEAR COVER IS LESS THAN (1) BAR DIAMETER.

STRUCTURAL MASONRY:

1. MASONRY CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 21 OF THE 2012 EDITION OF THE INTERNATIONAL BUILDING CODE AND ACI 530-11 "SPECIFICATION FOR MASONRY STRUCTURES".

2. GROUT PROPORTIONS SHALL CONFORM TO ASTM C476. PLACEMENT OF GROUT SHALL CONFORM TO TABLE 7 OF THE CURRENT EDITION OF ACI 530-11 "SPECIFICATION FOR MASONRY STRUCTURES".

3. FILL CORES OF CONCRETE BLOCKS SOLID WITH GROUT A MINIMUM OF (2)-COURSES BELOW BEAMS, LINTELS AND JOISTS BEARING ON THE MASONRY WALL.

4. BEARING ON WALLS OF HOLLOW UNIT MASONRY SHALL BE BUILT OF SOLID MASONRY TO A MINIMUM DEPTH OF 24" BELOW THE BEDDING PLANE AND FOR A WIDTH OF 36" AT THE BOTTOM OF THE SOLID SECTION. USE FULL HEAD AND BED JOINTS UNLESS OTHERWISE DETAILED.

5. THE FOLLOWING TABLE OUTLINES THIRD PARTY INSPECTION REQUIREMENTS FOR REINFORCED MASONRY CONSTRUCTION (LEVEL 1: IBC/ACI 530).

STRUCTURAL MASONRY (CONT.)

REQUIRED INSPECTIONS

FREQUENCY

REFERENCE

1. AS MASONRY CONSTRUCTION BEGINS, VERIFY COMPLIANCE OF THE FOLLOWING WITH THE CONSTRUCTION DOCUMENTS AND REVIEWED SUBMITTALS.

A) PROPORTIONS OF SITE PREPARED MORTAR

PERIODIC

ACI 530-1 ARTICLE 2.6A

B) CONSTRUCTION OF MORTAR JOINTS

PERIODIC

ACI 530-1 ARTICLE 3.3B

C) LOCATION OF REINFORCEMENT, CONNECTORS, AND ANCHORS

PERIODIC

ACI 530-1 ARTICLE 3.4

2. VERIFY THE FOLLOWING:

A) SIZE AND LOCATION OF STRUCTURAL ELEMENTS

PERIODIC

ACI 530-1 ARTICLE 3.3G

B) ANCHOR TYPE, SIZE, AND LOCATION, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION

PERIODIC

ACI 530 ARTICLES 1.2.2 (E), 2.1.4, AND 3.16

C) REINF. SIZE, GRADE, AND TYPE CONFORMS TO CONSTRUCTION DOCUMENTS

PERIODIC

ACI 530 ARTICLE 1.13 AND 530-1 ARTICLES 2.4, 3.4

D) WELDING OF REINFORCEMENT AND HEADED STUD ANCHORS

CONTINUOUS

ACI 530 ARTICLES 2.1.10.7.2, AND 3.3.3.4 (b)

E) PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F)

PERIODIC

ACI 530 ARTICLE 1.8C (IBC SECTION 2104.3)

F) PROTECTION OF MASONRY DURING HOT WEATHER (TEMPERATURE ABOVE 90°F)

PERIODIC

ACI 530 ARTICLE 1.8C (IBC SECTION 2104.4)

3. PRIOR TO GROUTING, VERIFY THE FOLLOWING:

A) GROUT SPACE IS CLEAN

PERIODIC

ACI 530-1 ARTICLE 3.2D

B) PLACEMENT OF REINF. AND DEVICES TO HOLD REINF. IN PLACE DURING GROUT

PERIODIC

ACI 530 ARTICLE 1.13 AND 530-1 ARTICLE 3.4

C) PROPORTIONS OF SITE-PREPARED GROUT

PERIODIC

ACI 530-1 ARTICLE 2.6B

D) CONSTRUCTION OF MORTAR JOINTS

PERIODIC

ACI 530-1 ARTICLE 3.3B

4. VERIFY GROUT PLACEMENT CONFORMS WITH CODE AND THE CONSTRUCTION DOCUMENTS.

CONTINUOUS

ACI 530-1 ARTICLE 3.5

5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND / OR PRISMS.

CONTINUOUS

ACI 530-1 ARTICLE 1.4 (IBC SECTIONS 2105.2.2 AND 2105.2)

6. COMPLIANCE WITH INSPECTION PROVISIONS OF CONSTRUCTION DOCUMENTS AND CODES AND APPROVED SUBMITTALS

PERIODIC

ACI 530-1 ARTICLE 1.5

THE INTERNATIONAL BUILDING CODE REQUIRES A SPECIAL INSPECTOR TO OBSERVE THE WORK ASSIGNED FOR THE CONFORMANCE TO THE APPROVED DESIGN DRAWINGS AND THE PROJECT MANUAL. THE SERVICES OF A CERTIFIED SPECIAL INSPECTOR SHALL BE EMPLOYED DURING CONSTRUCTION OF THE TYPES OF WORK LISTED ABOVE.

STRUCTURAL MASONRY (CONT.)

7. UNLESS OTHERWISE NOTED, CENTER ALL VERTICAL REINFORCING IN CMU CORE AND HOLD IN POSITION WITH CAGING DEVICES.

8. THE MINIMUM LENGTH OF LAP FOR REINFORCING IN MASONRY WALLS 8" OR WIDER AND A MAXIMUM OF (1)-BAR IN A CELL SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED: LAP LENGTHS SHALL BE INCREASED BY 15% WHERE F_m = 1500 PSI AND SHALL BE INCREASED BY 50% WHEN EPOXY COATED REINFORCING IS USED.

9. ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH GROUT AND REINFORCED AS FOLLOWS, UNLESS OTHERWISE NOTED:

SOLID BEAM

REINFORCING

4" CMU

(1)-#4 BAR

6" CMU

(1)-#4 BAR

8" CMU

(2)-#5 BARS

10" CMU

(2)-#6 BARS

12" CMU

(2)-#6 BARS

14" CMU

(2)-#7 BARS

REINFORCING SHALL BE CONTINUOUS, EXCEPT AT VERTICAL CONTROL JOINTS UNLESS OTHERWISE NOTED. PROVIDE 3/4" DIAMETER x 1'-0" LONG SMOOTH GREASED DOVELS (ONE WRAP PER REBAR) ACROSS CONTROL JOINTS. PROVIDE DOVELS AT CORNERS TO MAINTAIN CONTINUOUS REINFORCING. SEE TYPICAL DETAILS.

9. GROUT SHALL BE PLACED IN THE VERTICAL CORES OF THE MASONRY UNITS UTILIZING THE LOW LIFT GROUTING METHOD SET FORTH IN NCMATC 22A.

A) GROUT SHALL COMPLY WITH ASTM C476 MORTAR OR CONCRETE SHALL NOT BE USED TO FILL CMU CORES).

B) WEBS ADJACENT TO CORES TO BE GROUTED SHALL BE MORTARED. MORTAR SHALL BE STRUCK FLUSH WITH THE INSIDE FACE OF CORES TO BE GROUTED. CORES TO BE GROUTED SHALL BE CLEANED OF ALL MORTAR DROPPINGS AND OTHER DEBRIS PRIOR TO GROUTING.

C) THE MAXIMUM HEIGHT OF A GROUT LIFT SHALL BE 4'-0".

D) STOP GROUT POURS 1'-0" BELOW THE UPPERMOST PORTION OF THE CAVITY BEING FILLED TO PROVIDE A KEY FOR THE NEXT LIFT OR POUR.

E) CONSOLIDATE GROUT BY VIBRATING WITH A MECHANICAL VIBRATOR EACH LIFT. COMPLETELY RECONSOLIDATE GROUT APPROXIMATELY 20 MINUTES AFTER GROUT IS INSTALLED.

F) ALL REINFORCING STEEL SHALL BE IN PLACE AND INSPECTED BEFORE GROUTING AND THERE SHALL BE CONTINUOUS INSPECTION DURING THE GROUTING OPERATION.

G) PLACING REINFORCING AFTER GROUTING IS NOT PERMITTED.

10. IN EXTERIOR WALLS PLACE ONE REINFORCING BAR (SAME SIZE AS ADJACENT WALL) IN GROUTED CORE EXTENDING FULL HEIGHT OF WALL FOR ALL WINDOW AND DOOR OPENINGS UP TO 8'-0" WIDE. FOR OPENINGS 8'-0" TO 16'-0" WIDE PLACE TWO REINFORCING BARS IN TWO GROUTED CORES EACH SIDE OF OPENING.

11. ALL MASONRY WALLS (INTERIOR AND EXTERIOR) SHALL BE ANCHORED TO STEEL COLUMNS AND BEAMS WHICH DIRECTLY ABUT THE ENDS OR SIDES OF THE WALL. MASONRY WALLS SHALL ALSO BE ANCHORED TO STEEL LINTELS.

12. PROVIDE ONE VERTICAL REINFORCING BAR (SAME SIZE AS ADJACENT WALL) FULL HEIGHT OF THE WALL AT CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEAMS, JAMBS, AND EACH SIDE OF CONTROL JOINTS IN ALL INTERIOR AND EXTERIOR WALLS ON FOUNDATIONS UNLESS OTHERWISE NOTED.

STRUCTURAL MASONRY (CONT.)

13. SUBMIT SHOP DRAWINGS DETAILING ALL REINFORCING STEEL IN REINFORCED MASONRY CONSTRUCTION INCLUDING DETAILS OF ALL BEAM BARS, VERTICAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING. INCLUDE PLANS AND ELEVATIONS AS REQUIRED TO CLEARLY SHOW ALL REINFORCING, INCLUDING BOND BEAMS, MASONRY LINTELS, AND ALL VERTICAL BARS.

14. ALL HORIZONTAL JOINT REINFORCING SHALL BE CONTINUOUS THROUGH ALL CORNERS AND INTERSECTIONS, EXCEPT AT CONTROL JOINTS. USE PREFORMED CORNER AND INTERSECTION SECTIONS FURNISHED BY JOINT REINFORCING SUPPLIER.

LINTELS:

1. WHERE LINTELS ARE NOT SPECIFICALLY SHOWN OR NOTED ON THE STRUCTURAL OR ARCHITECTURAL DRAWINGS, PROVIDE THE FOLLOWING LINTELS OVER ALL OPENINGS AND RECESSES IN BOTH INTERIOR AND EXTERIOR WALLS. PROVIDE 8" MINIMUM BEARING UNLESS OTHERWISE NOTED.

- PRECAST LINTELS:

PROVIDE 4" x 6" OR A COMBINATION FOR OPENINGS UP TO 8'-0" WIDE. EACH 4" OR 6" LINTEL SHALL BE REINFORCED WITH AT LEAST (1)-#8 BOTTOM BAR.

- CMU LINTELS:

PROVIDE (2)-#6 BOTTOM BARS IN MASONRY LINTELS FOR OPENINGS UP TO 7'-4" WIDE.

PROVIDE (2)-#6 BARS FOR 12" OR WIDER CMU.

- LOOSE LINTEL ANGLES FOR BRICK / STONE VENEER:

OPENINGS UP TO 5'-0" WIDE_____USE L443 12x5/16" (LVL)

OPENINGS 5'-0" TO 7'-0" WIDE_____USE L64x5/16" (LVL)

OPENINGS 7'-0" TO 10'-0" WIDE_____USE L74x3/8" (LVL)

2. ALL LOOSE LINTELS AND CONTINUOUS RELIEF ANGLES SHALL BE HOT-DIP GALVANIZED AND PROVIDE 8" MINIMUM BEARING.

3. LINTELS LISTED ABOVE APPLY ONLY TO BRICK VENEER OR TO NON-LOAD BEARING CMU WALLS THAT ARE NOT GROUTED AND ARE CONSTRUCTED IN RUNNING BOND. LINTELS LISTED ABOVE MAY ALSO BE USED IN STACKED BOND MASONRY WHERE THE HEIGHT OF THE WALL ABOVE THE LINTEL IS LESS THAN OR EQUAL TO ONE-HALF OF THE LINTEL SPAN. CONTACT THE ENGINEER FOR OTHER CASES OR WHERE LINTELS ARE NOT SPECIFIED ON THE PLANS.

POST-INSTALLED ANCHORS:

1. INSTALLERS OF DRILLED IN ADHESIVE ANCHORS SHALL BE CERTIFIED BY AN ACI OR CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM OR SHALL BE TRAINED ON SITE BY THE ADHESIVE ANCHOR MANUFACTURER SPECIFICALLY FOR THE PROJECT.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ANCHOR LOCATIONS AT ALL MASONRY WALLS. MASONRY WALLS SHALL BE GROUTED SOLID AT ALL ANCHOR LOCATIONS FOR A MINIMUM OF 12" IN ALL DIRECTIONS FROM ANCHOR CENTERLINE.

3. ALL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE ANCHOR MANUFACTURERS SPECIFICATIONS.

4. UNLESS OTHERWISE NOTED ALL ANCHORS SHALL HAVE STANDARD EMBEDMENT DEPTH AS DEFINED BY THE ANCHOR MANUFACTURER.

5. WHERE ANCHORS ARE TO BE INSTALLED INTO EXISTING MASONRY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD TESTING THE ANCHORS PRIOR TO THE FABRICATION OF ANY MATERIALS TO VERIFY THAT THE ALLOWABLE LOADS AS PUBLISHED BY THE ANCHOR MANUFACTURER, OR THOSE INDICATED ON THE STRUCTURAL DRAWINGS, ARE OBTAINABLE. THE CONTRACTOR SHALL SUBMIT RESULTS OF THESE TESTS TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ANCHOR SIZES AND SPACINGS AS SHOWN IN THESE DOCUMENTS ARE SUBJECT TO CHANGE BASED ON THE RESULTS OF THE FIELD TESTS.

LUMBER:

1. STRUCTURAL LUMBER SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE TIMBER CONSTRUCTION MANUAL BY THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) AND THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE AMERICAN WOOD COUNCIL (AWC).

2. MISCELLANEOUS FRAMING LUMBER SHALL BE NO. 2 SOUTHERN PINE, KILN DRIED, WITH A MAXIMUM MOISTURE CONTENT OF 19%, OR APPROVED EQUAL. WALL STUDS SHALL BE NO. 2 SPRUCE-PINE-FIR. UNLESS OTHERWISE SHOWN OR NOTED, BOLTS AND LAG SCREWS IN CONNECTIONS OF WOOD MEMBERS SHALL BE MADE WITH MATERIAL CONFORMING TO ASTM A307. STANDARD CUT WASHERS SHALL BE USED BETWEEN THE WOOD AND BOLT HEAD AND THE WOOD AND NUT.

3. NAIL AN OTHER WOOD FASTENINGS, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION BY THE (AWC).

PLYWOOD:

1. PLYWOOD PANELS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST CRITERIA ESTABLISHED BY THE AMERICAN PANEL ASSOCIATION (APA) INCLUDING THEIR EDITION OF THE PLYWOOD DESIGN SPECIFICATION. PLYWOOD PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE TRADEMARK OF THE APA AND SHALL MEET REQUIREMENTS OF THE LATEST EDITION OF THE U.S. PRODUCT STANDARDS PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.

2. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION (FACE GRAIN) ACROSS THE SUPPORTS WITH PANELS CONTINUOUS OVER TWO OR MORE SUPPORTS (MINIMUM 3-SPAN CONDITION).

3. STAGGER PANEL END JOINTS. END JOINTS SHALL ONLY OCCUR OVER A SUPPORT UNLESS RECOMMENDED OTHERWISE BY THE PANEL MANUFACTURER. PROVIDE A 1/8" GAP BETWEEN PANEL ENDS AND EDGES.

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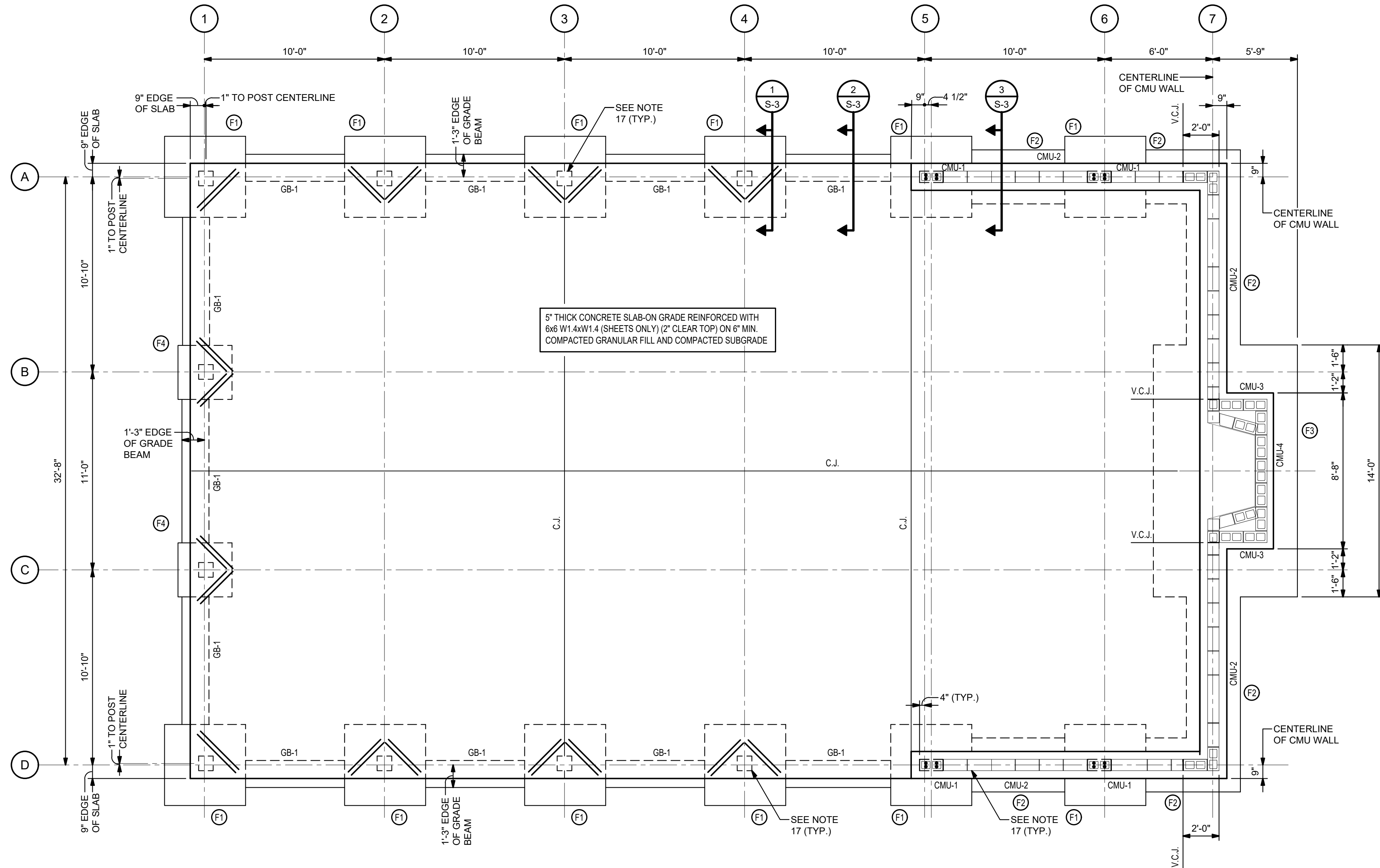
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CONSTRUCTION SET



FOUNDATION / SLAB PLAN
1/4" = 1'-0"



PLAN NOTES:

- REFERENCE ELEVATION = FINISH FLOOR ELEVATION = 100'-0". REFER TO SITE DRAWINGS FOR U.S.G.S. EQUIVALENT FINISH FLOOR ELEVATION.
- TOP SLAB (T/SLAB) ELEVATION = 100'-0" (U.O.N.).
- TOP OF GRADE BEAM ELEVATION = 99'-5" (U.O.N.).
- TOP OF COLUMN FOOTING ELEVATION = 99'-5" (U.O.N.).
TOP OF WALL FOOTING ELEVATION = 98'-5" (U.O.N.).
- REFER TO SHEET S-0 FOR GENERAL NOTES.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL LAYOUT, OPENING LOCATION, AND ADDITIONAL DETAILS.
- REFER TO ARCHITECTURAL DRAWINGS FOR STONE / WOOD FACING LOCATION.
- CENTER FOUNDATIONS UNDER SUPPORTED COLUMNS OR CMU WALLS.
- C.J. INDICATES CONTRACTION OR CONSTRUCTION JOINT. REFER TO TYPICAL DETAIL ON SHEET S-3.
-  INDICATES FOUNDATION F'X'. CENTER FOOTING UNDER COLUMN OR WALL (U.O.N.). REFER TO SCHEDULE ON SHEET S-3.
- GB-X INDICATES CONCRETE GRADE BEAM GB-'X'. REFER TO SCHEDULE ON SHEET S-3.
- CMU-X INDICATES REINFORCED CONCRETE MASONRY UNIT WALL. CMU-'X'. REFER TO SCHEDULE ON SHEET S-4. ALL CMU WALLS SHALL BE FULLY GROUTED.
- PLACE ADDITIONAL REINFORCING AT ALL RE-ENTRANT SLAB CORNERS AND AS SHOWN ON PLAN. SEE TYPICAL SLAB ON GRADE INTERIOR CORNER REINFORCING DETAILS ON SHEET S-3.
- COORDINATE LOCATION OF ALL UNDER-SLAB PIPING, FLOOR BOXES, ELECTRIC CONDUIT, AND OTHER EMBEDDED ITEMS PRIOR TO PLACING CONCRETE SLABS.
- FLOOR SLAB SHALL HAVE A NON-SLIP BROOM FINISH.
- V.C.J. INDICATES MASONRY VERTICAL CONTROL JOINT. SEE "TYPICAL CMU WALL REINFORCEMENT DETAIL" ON SHEET S-4.
- ALIGN OUTSIDE FACE OF POST TO FACE OF CMU WALL (TYP.).
- SEE ARCHITECTURAL PLANS FOR CONCRETE WALK AROUND SHELTER.




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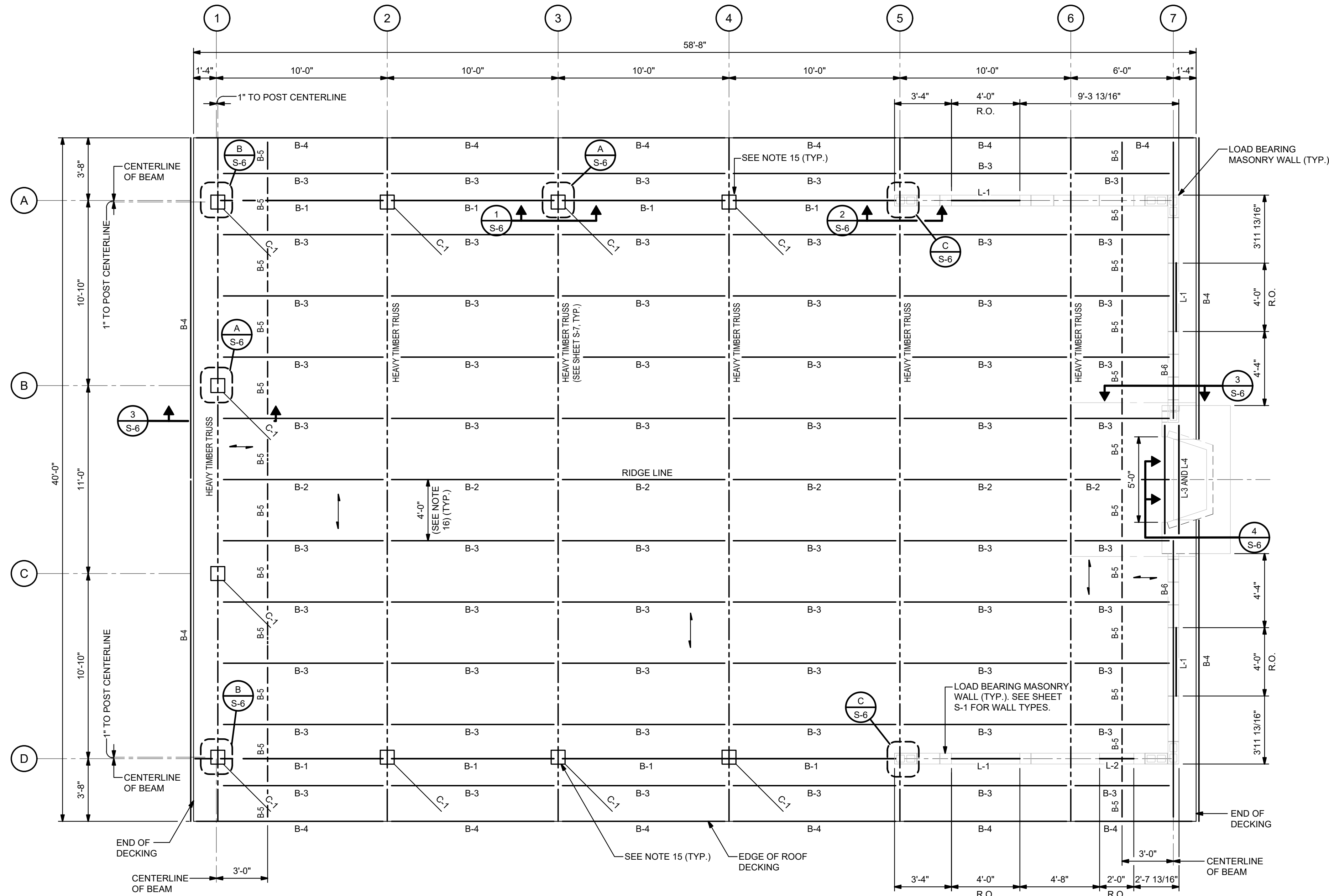
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CONSTRUCTION SET



ROOF FRAMING PLAN

1/4" = 1'-0"



NAILING SCHEDULE:

- (XX-10d / YY-10d) AFTER A WOOD FRAMING CONNECTOR INDICATES THE NUMBER OF REQUIRED COMMON NAILS. THE FIRST NUMBER (XX) INDICATES THE NUMBER OF NAILS TO BE INSTALLED INTO THE SUPPORTING MEMBER. THE SECOND NUMBER (YY) INDICATES THE NUMBER OF NAILS TO BE INSTALLED INTO THE SUPPORTED MEMBER. NAILS SIZES AND LENGTHS SHALL BE AS INDICATED.
- ROOF SHEATHING TO SUPPORTING FRAMING:
 - 16d COMMON x 3 1/2" GALVANIZED NAIL AT EACH PLANK TO ALL SUPPORTS.
 - PROVIDE 16d COMMON x 3 1/2" GALVANIZED RING SHANK NAILS AT EACH PLANK TO ALL SUPPORTS WITHIN 5'-0" OF ROOF EDGE.
 - PROVIDE (2)-ADDITIONAL 10d COMMON x 3" GALVANIZED RING SHANK NAILS FACE NAILED THROUGH THE ROOF PERIMETER PLANK INTO EACH SUPPORT.

PLAN NOTES:

- REFERENCE ELEVATION = FINISH FLOOR ELEVATION = 100'-0". SEE SITE DRAWINGS FOR U.S.G.S. EQUIVALENT FINISH FLOOR ELEVATION.
- TOP OF BEAM B-1 ELEVATION = 108'-8".
- TRUSS BEARING ELEVATION = 108'-11" (U.O.N.).
- REFER TO SHEET S-0 FOR GENERAL NOTES.
- INDICATES SPAN OF 2"x6" (ROUGH SAWN) NO. 2 YELLOW POPLAR PLANKING PLACED PERPENDICULAR TO SUPPORTS FASTEN PER NAILING SCHEDULE. SEE ARCHITECTURAL DRAWINGS FOR DETAILS.
- SEE SHEET S-7 FOR HEAVY TIMBER TRUSS DETAILS.
- HEAVY TIMBER MEMBERS SHALL BE AS INDICATED:
 - B-1 7 5/8"x11 5/8" ROUGH SAWN BEAM, NO. 2 RED OAK.
 - B-2 4"x8" ROUGH SAWN RIDGE PURLIN, NO. 2 YELLOW POPLAR. FASTEN END AT GRID 1 END WALLS WITH SIMPSON HUS48 HANGERS (6-16d/6-16d). NARROW PURLIN WIDTH AT ENDS WITH A DRAWKNIFE TO FIT HANGER.
 - B-3 4"x8" ROUGH SAWN GENERAL PURLIN, NO. 2 YELLOW POPLAR. FASTEN EACH END WITH SIMPSON HUS46 HANGERS (4-16d/4-16d). NARROW PURLIN WIDTH AT ENDS WITH A DRAWKNIFE TO FIT HANGER.
 - B-4 2"x10" ROUGH SAWN EDGE PURLIN, NO. 2 YELLOW POPLAR. FASTEN EACH END WITH SIMPSON L70 ANCHOR USING 8-10d NAILS. USE L70 ANCHORS ON EACH SIDE OF WALL RAFTER AT GRIDS 1 AND 7.
 - B-5 2"x6" ROUGH SAWN HEADER, NO. 2 YELLOW POPLAR. FASTEN EACH END WITH SIMPSON L50 ANCHOR USING 6-10d NAILS.
 - B-6 6x10 RED OR BLACK OAK RAFTER ON TOP OF FRAMED END WALL.
- C-1 INDICATES 9 3/4"x9 3/4" ROUGH SAWN, NO. 2 WHITE OAK POST.
- L-X INDICATES MASONRY LINTEL L-X; SEE DETAILS ON SHEET S-5. SEE ARCHITECTURAL DRAWINGS FOR OPENING WIDTHS AND BOTTOM OF LINTEL ELEVATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR GENERAL LAYOUT, OPENING LOCATIONS, ROOF SLOPE, PAINTING REQUIREMENTS, AND ADDITIONAL DETAILS.
- ALL CLIPS AND UPLIFT FASTENERS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
- SEE ARCHITECTURAL DRAWINGS FOR TRUSS ELEVATIONS AND ADDITIONAL REQUIREMENTS.
- SEE ARCHITECTURAL SECTIONS AT THE CHIMNEY FOR LINTEL LOCATIONS AND ELEVATIONS.
- R.O. INDICATES ROUGH OPENING IN CMU WALL. SEE ARCHITECTURAL DRAWINGS FOR OVERALL SIZE OF OPENING. SEE "TYPICAL CMU WALL REINFORCEMENT DETAIL" ON SHEET S-4.
- ALIGN OUTSIDE FACE OF POSTS TO FACE OF CMU WALL (TYP.).
- SPACE ROOF PURLINS AT 4'-0" o.c. ALONG SLOPE OF TRUSS TOP CHORD (3'-6 15/16" ON A HORIZONTAL LINE).

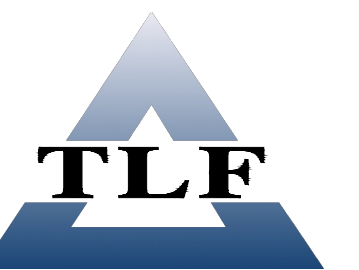
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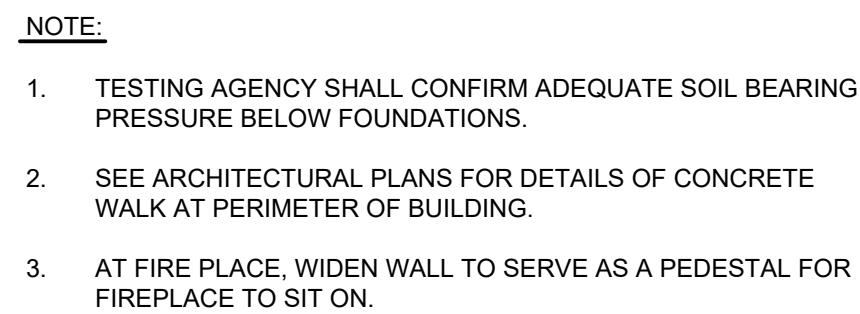
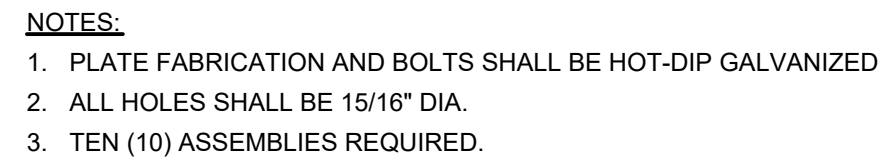
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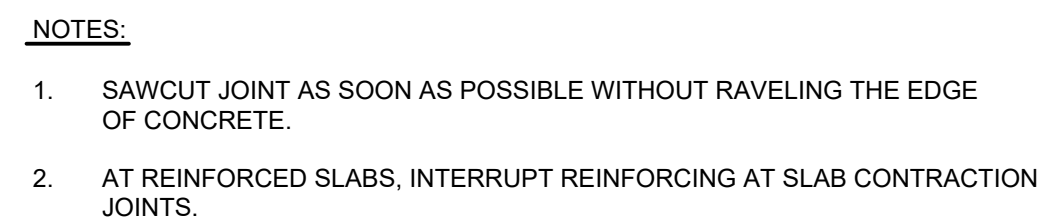
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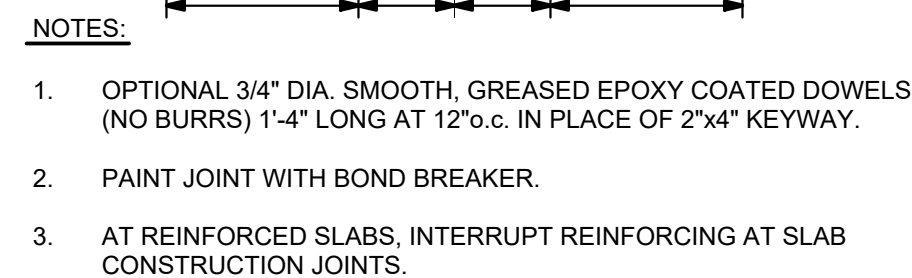
SECTION 3
3/4" = 1'-0" S-1



NOTE:

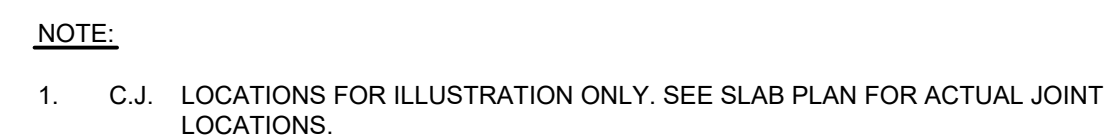
1. SEE ARCHITECTURAL PLANS FOR DETAILS OF CONCRETE WALK AT PERIMETER OF BUILDING.

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



1. EXTEND ALL BARS 12" INTO FACE OF FOOTING.
2. ALL CONCRETE GRADE BEAMS SHALL BE CLASS 'C' CONCRETE.

1. ALL FOUNDATIONS SHALL BE CLASS 'C' CONCRETE.
2. SEE TYPICAL DETAILS FOR PLACEMENT OF REINFORCING.
3. SEE TYPICAL DETAILS FOR WALL REINFORCEMENT AND DOWELS.



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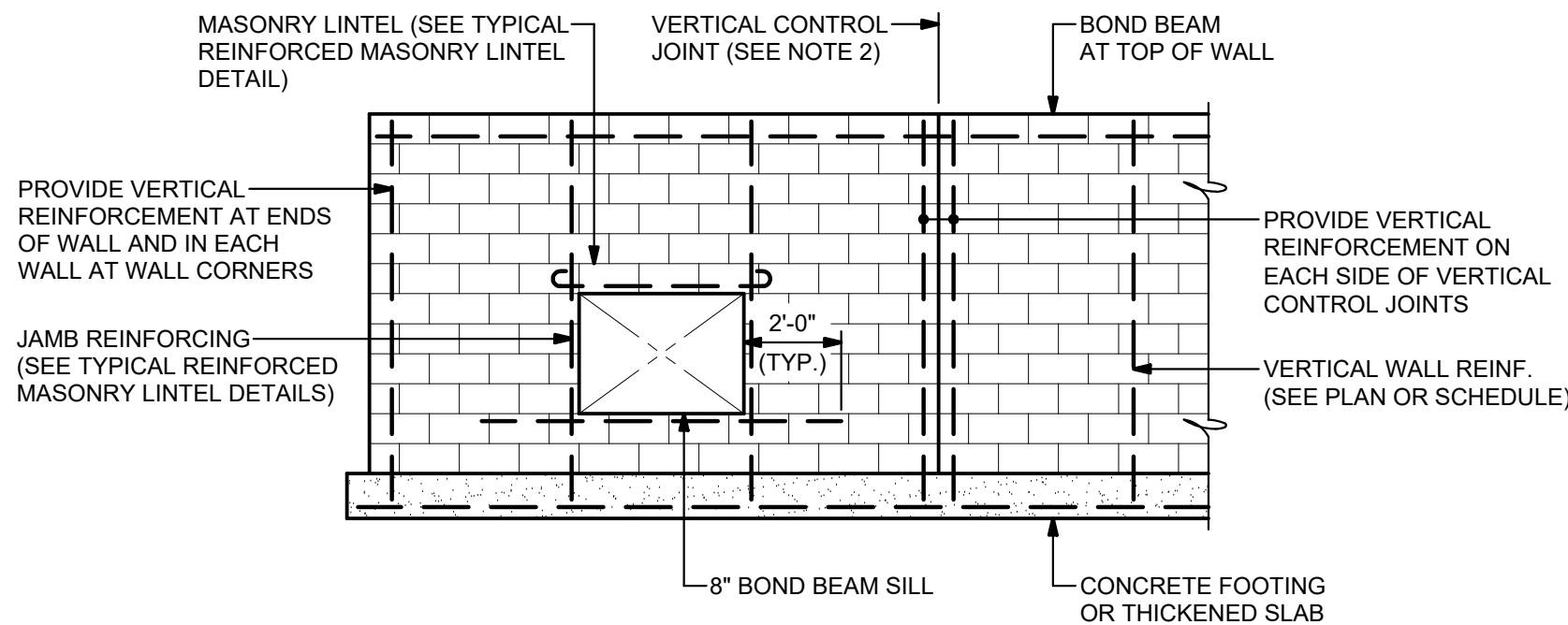
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CMU WALL PANEL SCHEDULE

MARK	NOMINAL CMU THICKNESS (IN.)	VERTICAL REINFORCING		BOND BEAMS		REMARKS
		SIZE	SPACING (IN.)	T/BOND BEAM ELEVATION	BOND BEAM HEIGHT (IN.)	
CMU-1	8"	(2) #5	8"	108'-8"	8"	TOP OF WALL EL. = 108'-8" STEP 2 CELLS AT GRID 5 (T/W EL. = 107'-8") PLACE #3 TIES AROUND SET OF 4 BARS IN JOINTS AT 8".
CMU-2	8"	#5	32"	108'-8"	8"	TOP OF WALL EL. = 108'-8"
CMU-3	8"	#5	8"	108'-8" 111'-4", 113'-4", 115'-4", 120'-0"	16" 8"	
CMU-4	8"	#5	24"	108'-8" 111'-4", 113'-4", 115'-4", 120'-0"	16" 8"	

CMU WALL PANEL SCHEDULE NOTES:

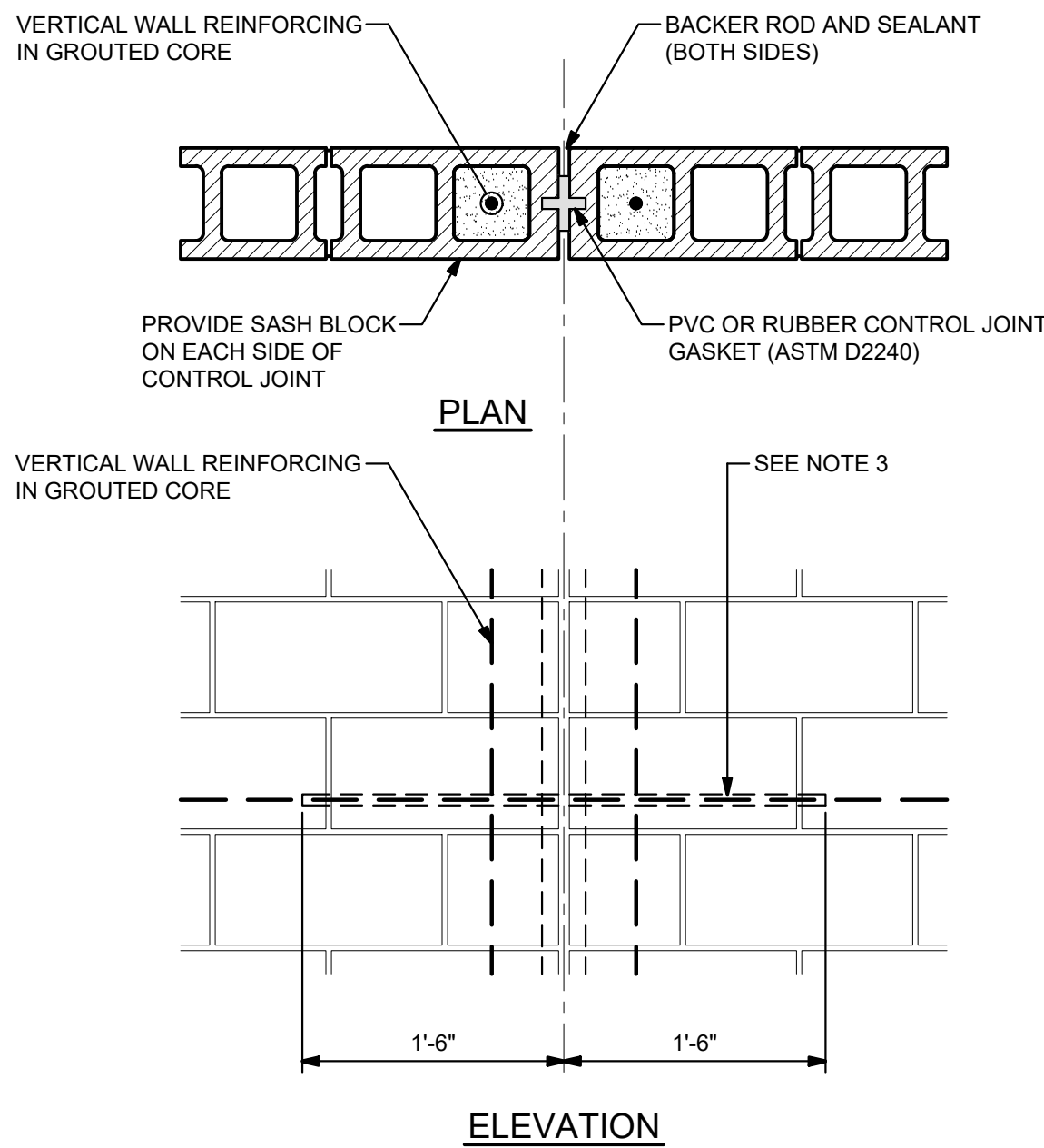
- ALL CMU WALLS SHALL BE FULLY GROUTED.



NOTES:

- IN ADDITION TO THE MASONRY WALL REINFORCEMENT SHOWN ALL MASONRY WALLS SHALL HAVE CONTINUOUS GALVANIZED TRUSS TYPE HORIZONTAL JOINT REINFORCING WITH MINIMUM 9 GAUGE SIDE RODS AT 16"o.c. UNLESS OTHERWISE NOTED.
- CONTROL JOINTS SHALL BE LOCATED AT NOT MORE THAN THE LESSER OF 1 1/2 TIMES THE WALL HEIGHT OR 20'-0"o.c. AND AT THE FOLLOWING LOCATIONS:
 - NOT MORE THAN HALF THE ABOVE DISTANCE FROM BUILDING CORNERS OR INTERSECTING WALLS.
 - AT CHANGES IN WALL HEIGHT OR THICKNESS.
 - AT MIDPOINT BETWEEN WINDOWS OR OTHER WALL OPENINGS.
- SEE TYPICAL HORIZONTAL JOINT REINFORCING DETAILS FOR ADDITIONAL REQUIREMENTS.
- SEE PLANS FOR VERTICAL REINFORCING BAR SIZE AND SPACING.
- SEE TYPICAL LINTEL BEARING DETAILS FOR MASONRY REINFORCING AT OPENINGS WITH LINTELS.
- PROVIDE BOND BEAMS AT TOP OF WALL AND AT 10"o.c.
- PROVIDE (2) BARS EACH SIDE OF ALL OPENINGS ON WALLS GREATER THAN 20 FEET TALL.

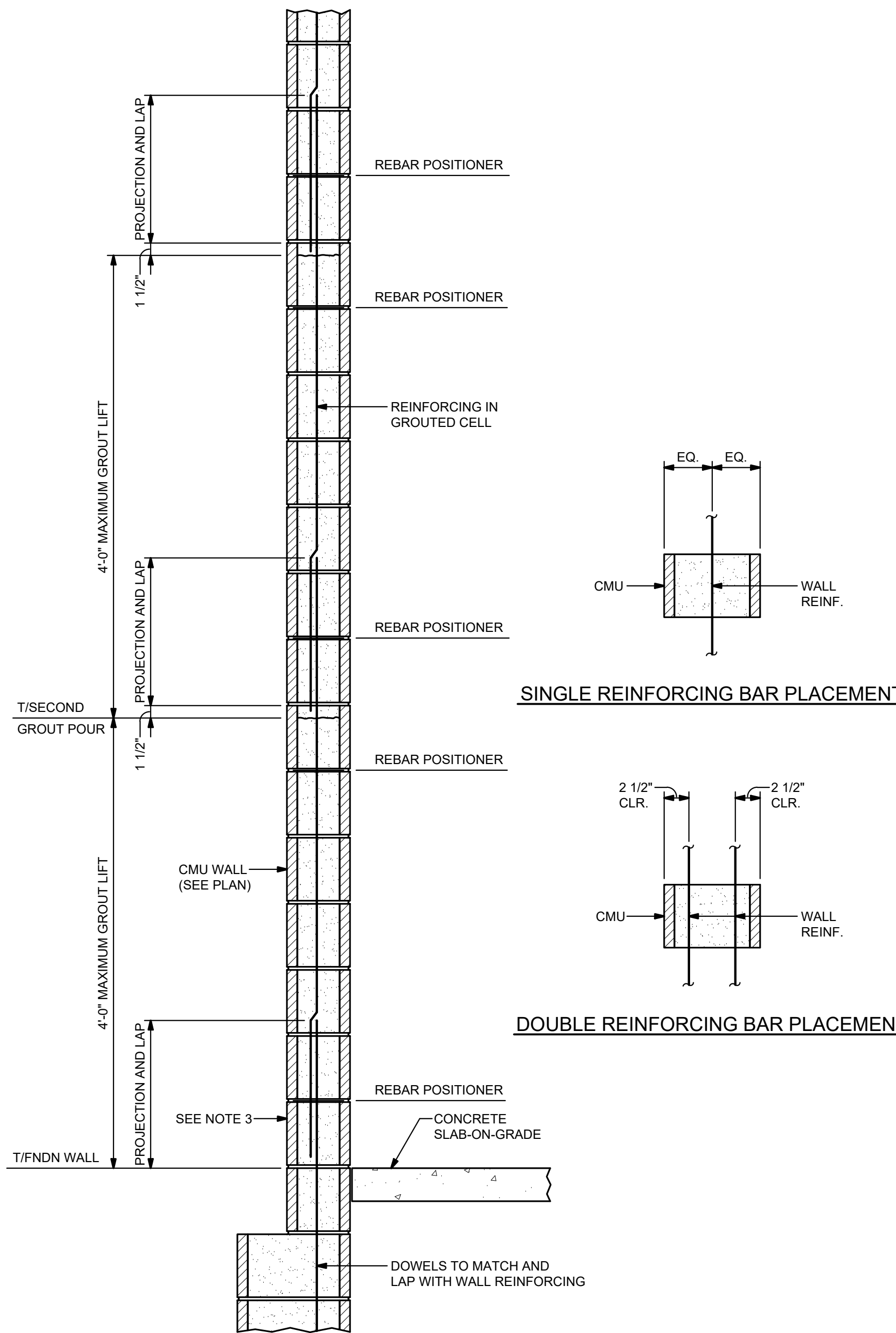
TYPICAL CMU WALL REINFORCEMENT DETAIL



NOTES:

- BOND BEAM REINFORCING SHALL NOT BE LAPPED WITHIN 8'-0" OF CONTROL JOINT.
- HORIZONTAL JOINT REINFORCING SHALL BE DISCONTINUOUS AT CONTROL JOINTS.
- BOND BEAM REINFORCING SHALL BE CONTINUOUS THRU CONTROL JOINTS AT FLOOR AND ROOF LEVELS. BOND BEAM REINFORCING SHALL BE INTERRUPTED AT CONTROL JOINTS AT OTHER LOCATIONS (WRAP WITH MASTIC TO CREATE BOND BREAK AT CONTROL JOINT).

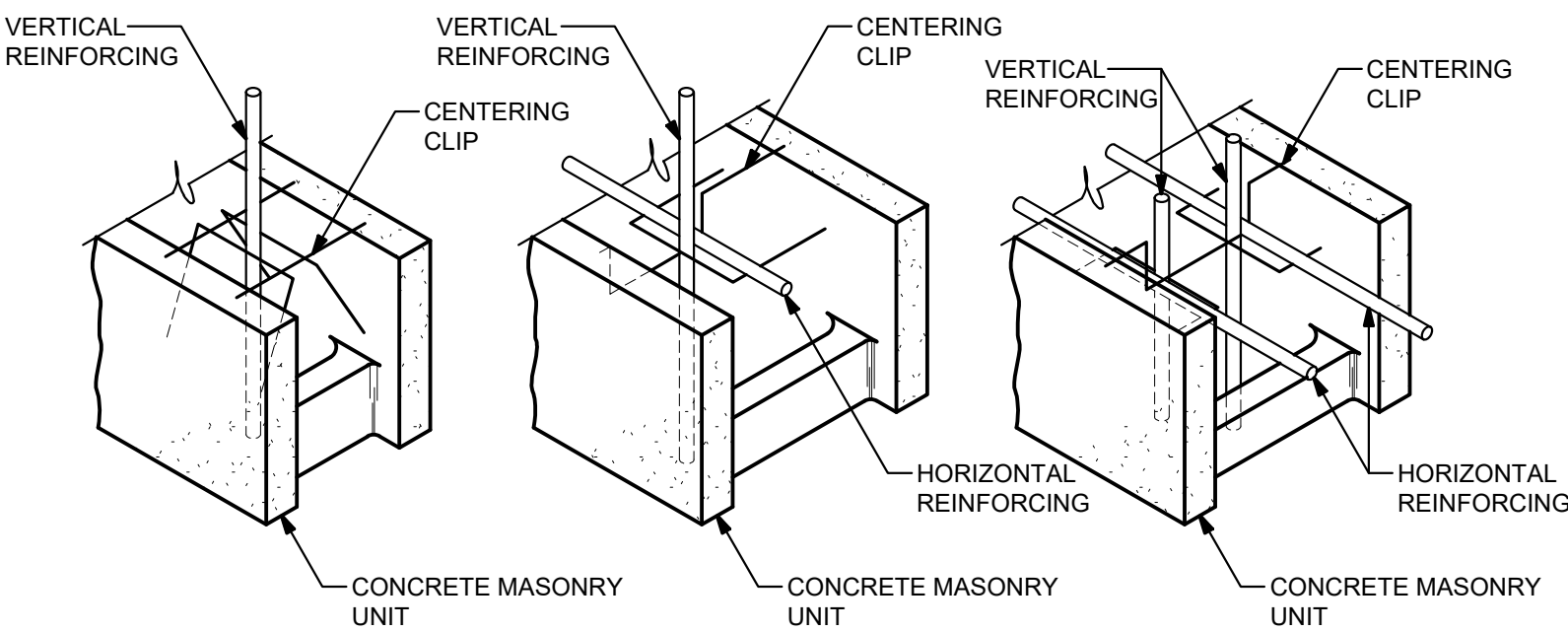
TYPICAL CMU WALL VERTICAL CONTROL JOINT DETAIL



NOTES:

- SEE PLANS FOR REINFORCING REQUIREMENTS.
- MULTI-WYTHE WALLS MAY REQUIRE REINFORCING IN EACH WYTHE.
- 3"x3" MINIMUM CUT MASONRY INSPECTION AND CLEANOUT HOLE AT REINFORCING (REQUIRED FOR GROUT POUR HEIGHTS GREATER THAN 5'-0").
- SEE GENERAL NOTES FOR MASONRY REINFORCING LAP LENGTHS.

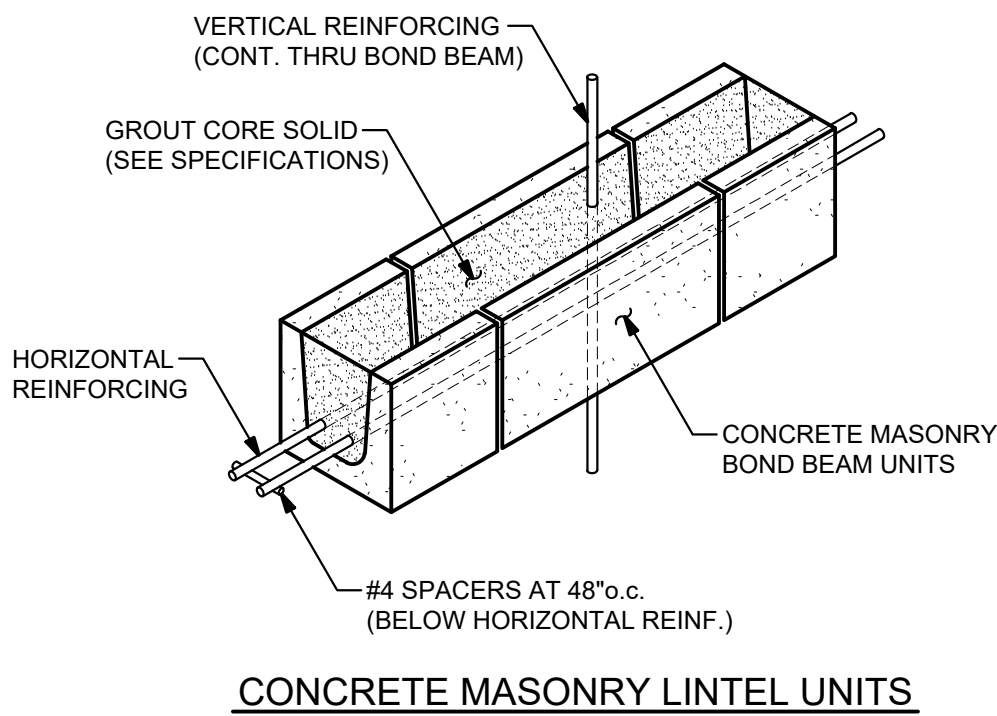
TYPICAL REINFORCED CMU WALL DETAIL



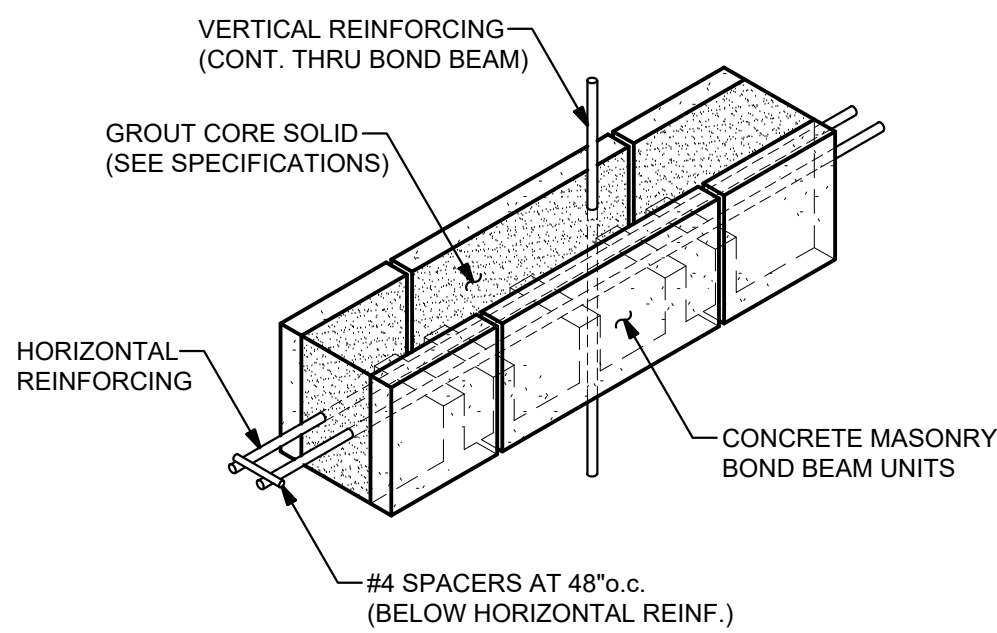
NOTES:

- CAGING DEVICES AND CENTERING CLIPS SHALL BE FORMED FROM #9 WIRE, SPOT WELDED AND GALVANIZED.
- REINFORCEMENT SHALL BE CENTERED IN CELLS (U.O.N.).

TYPICAL CMU REINFORCEMENT POSITIONING DETAILS



CONCRETE MASONRY LINTEL UNITS



CONCRETE MASONRY BOND BEAM UNITS

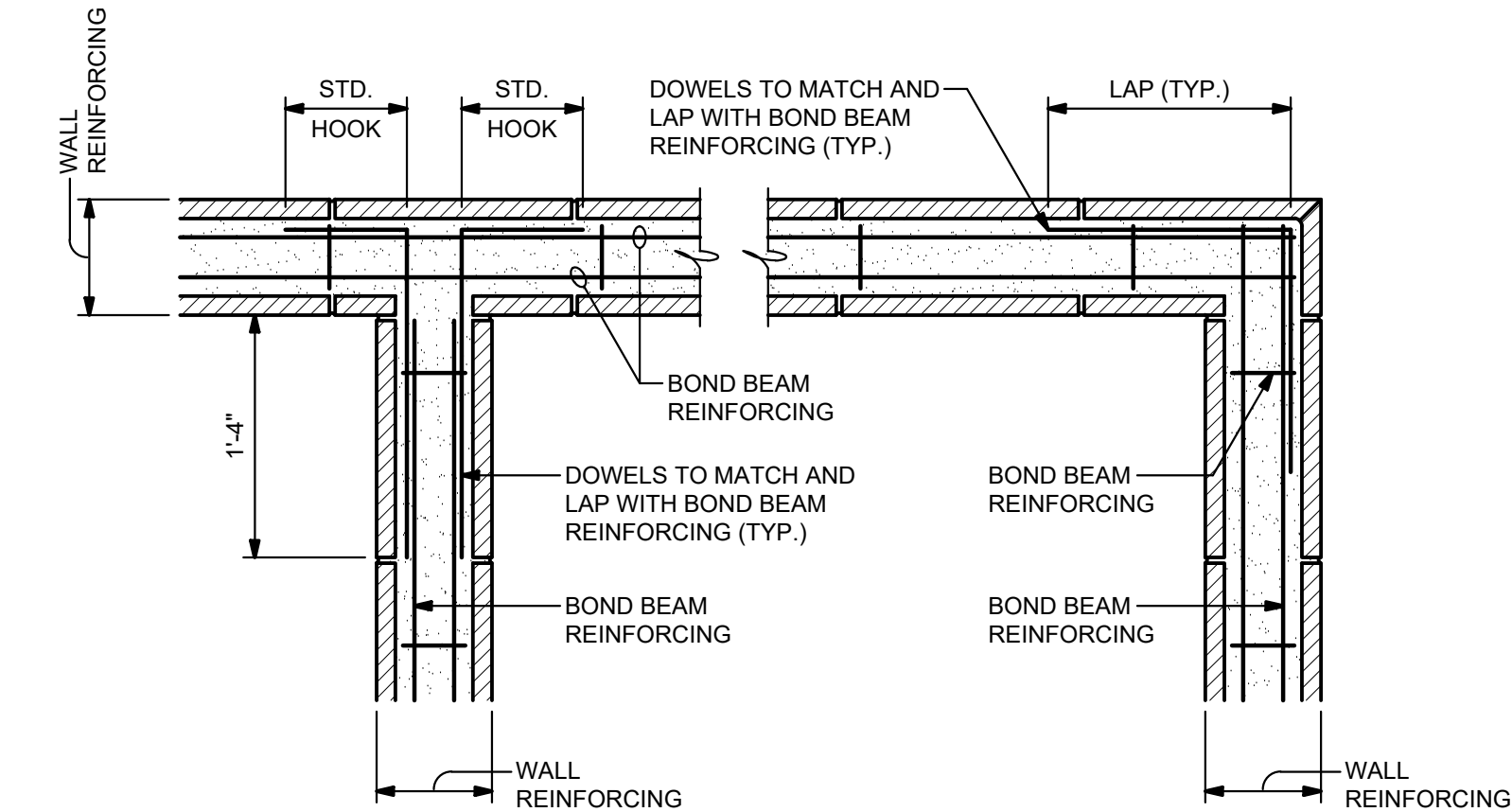
NOTE:

- GROUT STOP REQUIRED UNDER BOND BEAM UNITS.
- ALL BOND BEAMS SHALL BE CONTINUOUS AND SHALL BE FILLED WITH GROUT AND REINFORCING AS FOLLOWS UNLESS OTHERWISE NOTED:

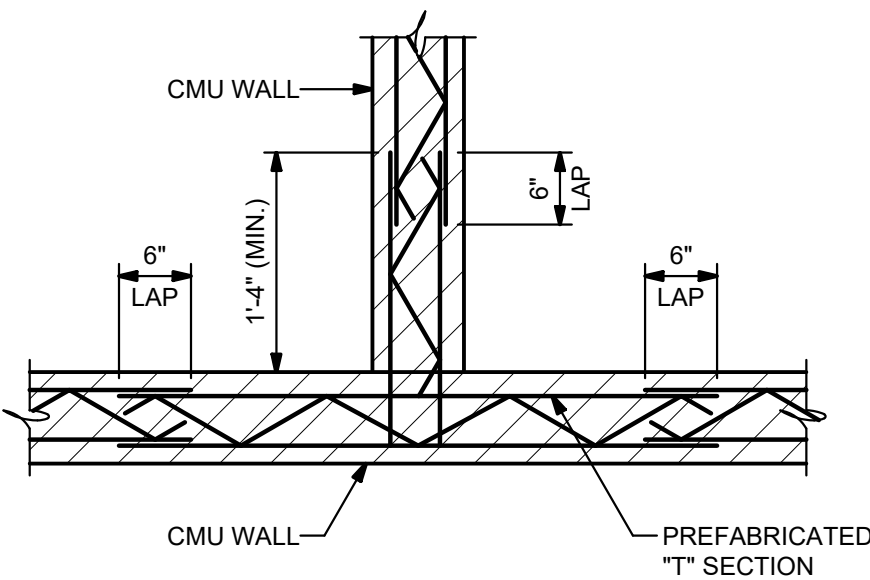
BOND BEAM	REINFORCING
4" CMU	(1) - #3 BARS
6" CMU	(1) - #4 BARS
8" CMU	(2) - #5 BARS
10" CMU	(2) - #6 BARS
12" CMU	(2) - #6 BARS
14" CMU	(2) - #7 BARS

- REINFORCING SHALL BE CONTINUOUS (U.O.N.). PROVIDE DOWELS AT CORNERS TO MAINTAIN CONTINUOUS REINF. BOND BEAMS DEEPER THAN 8" SHALL HAVE BOTH TOP AND BOTTOM BARS.

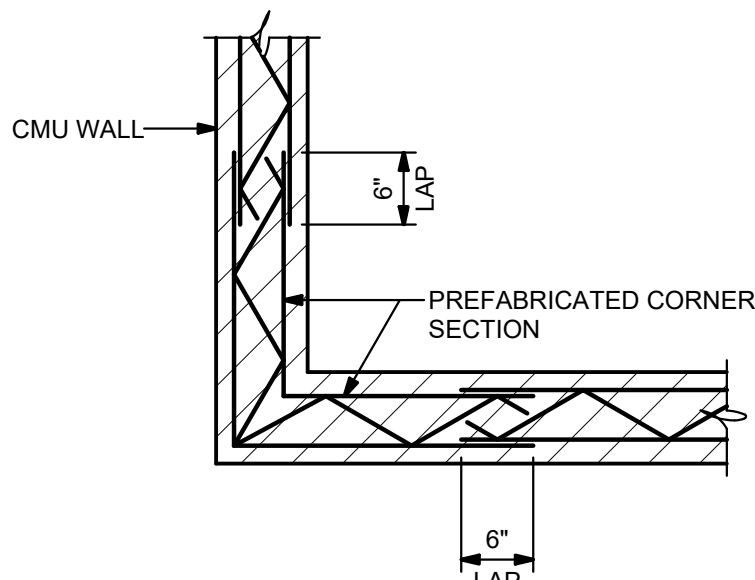
TYPICAL CMU BOND BEAM DETAIL



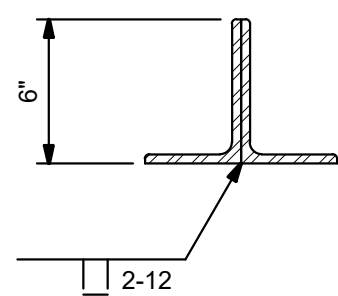
TYPICAL BOND BEAM REINFORCING AT INTERSECTING WALLS



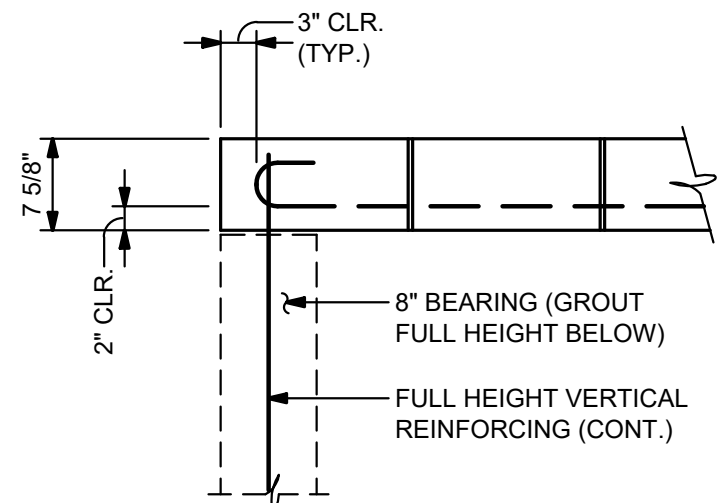
TYPICAL HORIZONTAL REINFORCING INTERSECTING WALL DETAIL



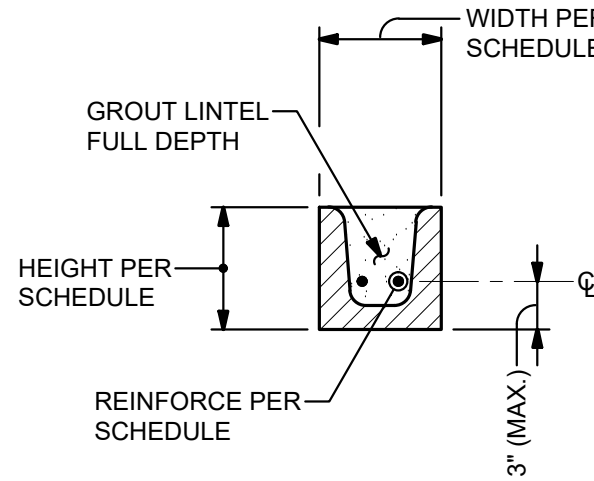
TYPICAL HORIZONTAL REINFORCING CORNER DETAIL



SECTION
TYPE "B" LINTEL



END BEARING



SECTION
TYPE "A" LINTEL

MASONRY LINTEL SCHEDULE					
MARK	WIDTH	HEIGHT	REINFORCEMENT	TYPE	REMARKS
L1	8"	16"	(2)-#5 BARS	A	
L2	8"	8"	(2)-#5 BARS	A	
L3	12"	16"	(2)-#6 BARS	A	PROVIDE L6x4x3/8" LOOSE STEEL ANGLE LINTEL ON INSIDE FACE. CUT 4" HORIZ. LEG DOWN TO 2" AT FLUE LINER
L4	(2)-L6x4 1/2x3/8"			B	FABRICATED BY CUTTING HORIZONTAL LEG OF L6x6x3/8" TO 4 1/2"

- NOTES:
- 8" MIN. BEARING EACH END UNLESS NOTED OR DETAILED OTHERWISE.
 - GROUT SOLID ALL MASONRY UNITS. REFER TO SPECIFICATIONS AND GENERAL NOTES.
 - ALL REINFORCING BARS ARE HOOKED AT THE ENDS.
 - BOND PATTERN OF LINTEL TO MATCH ADJACENT WALL.
 - BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
 - ALL STEEL LINTELS SHALL BE HOT DIP GALVANIZED.

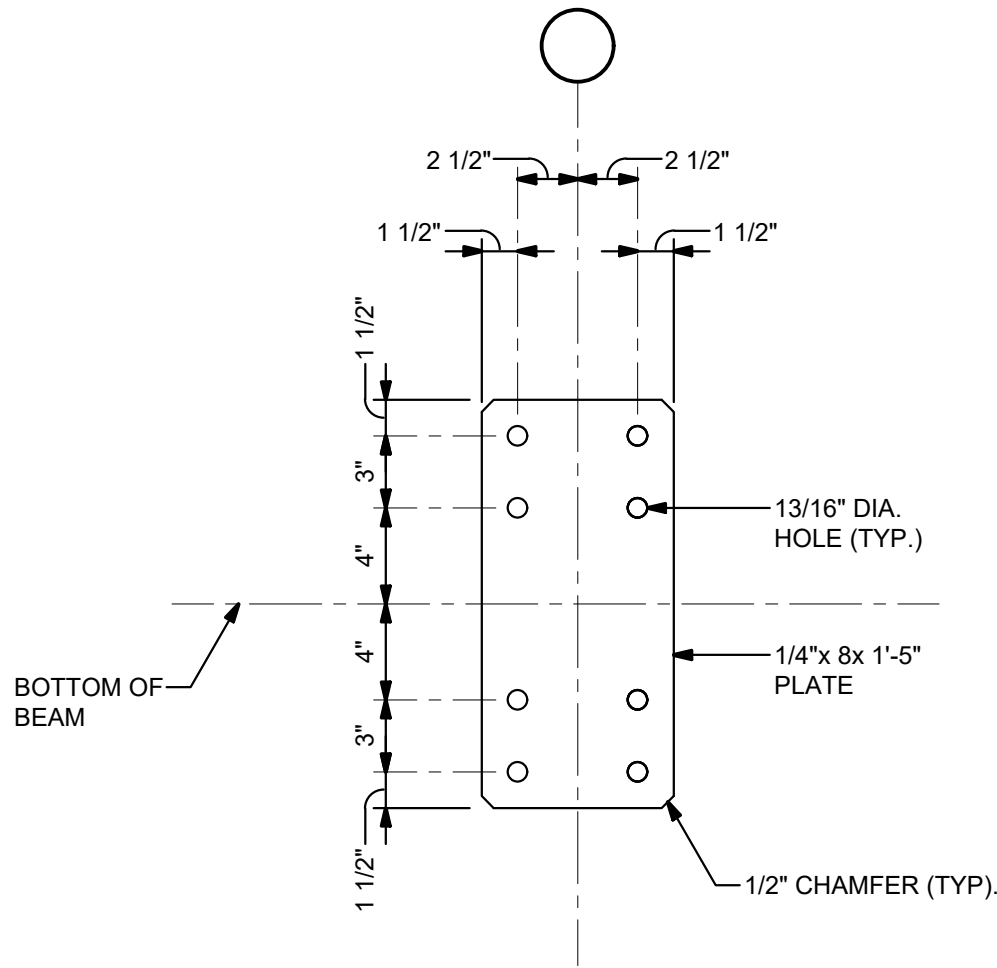


PLATE P-1

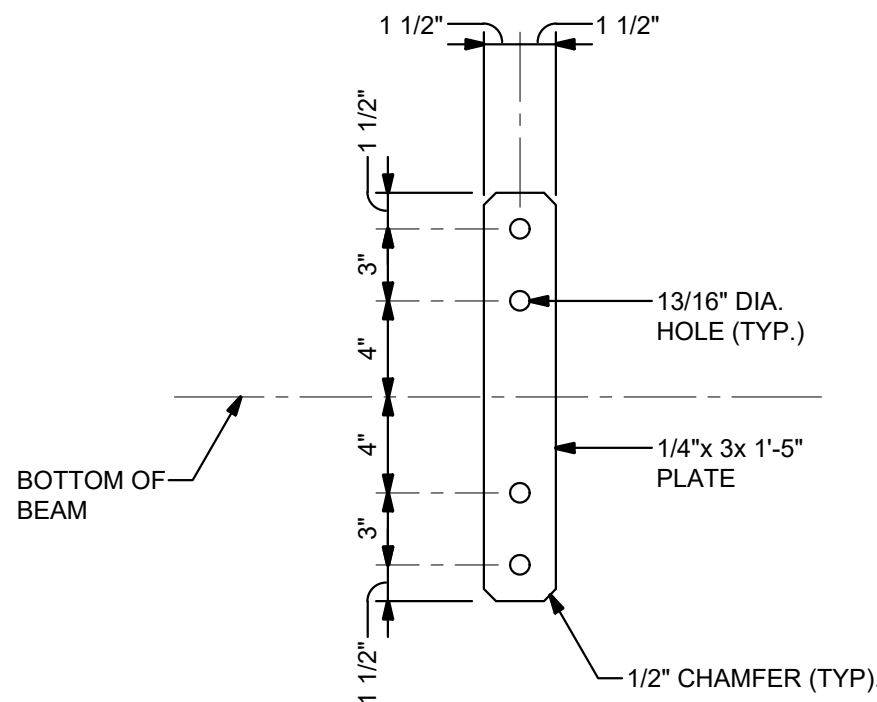


PLATE P-2

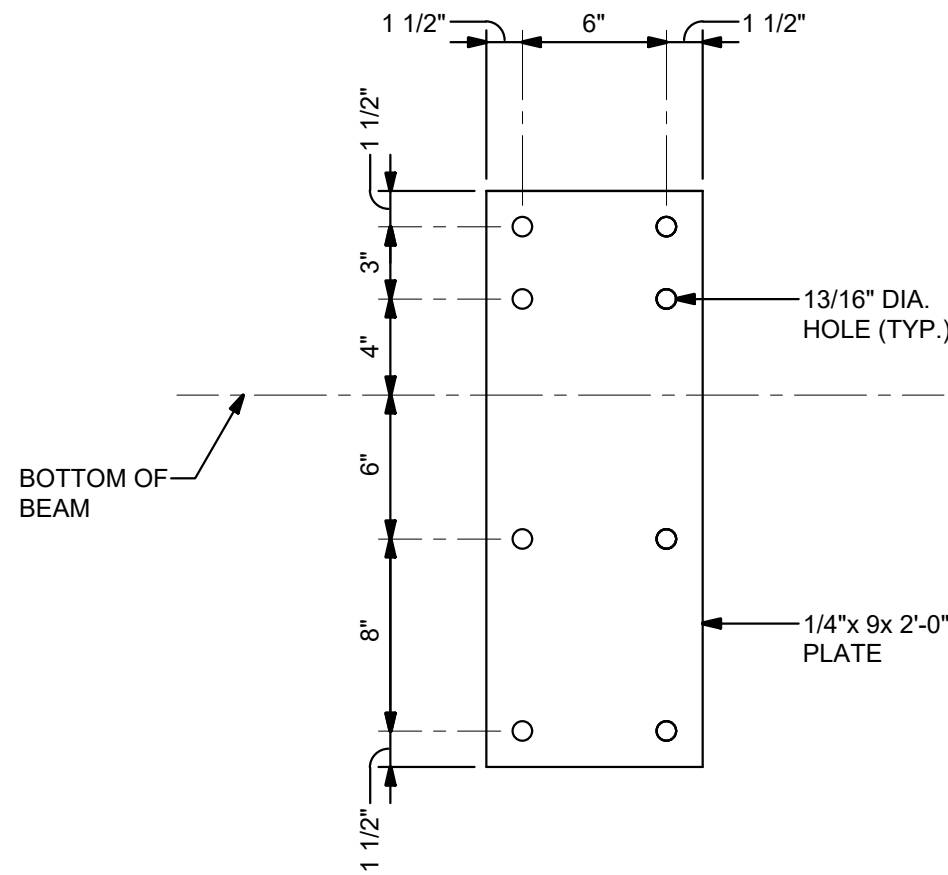
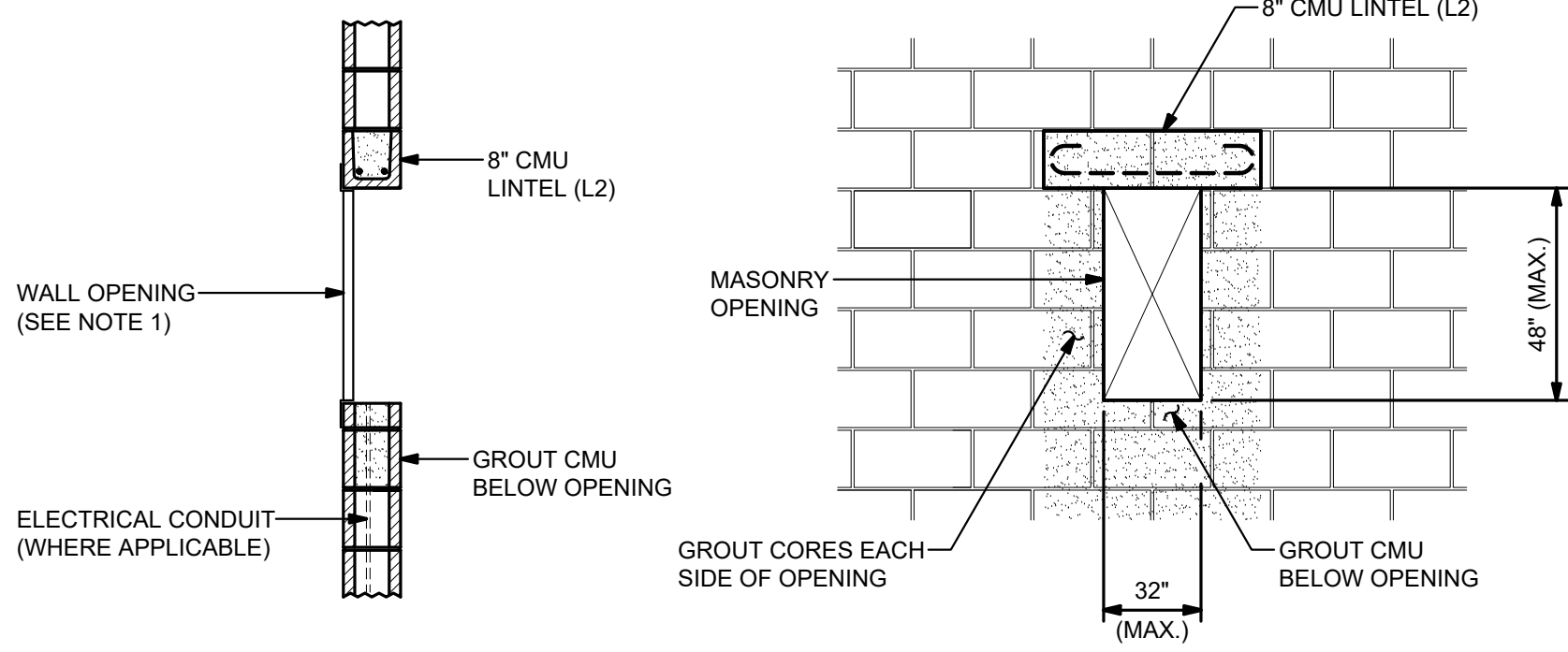


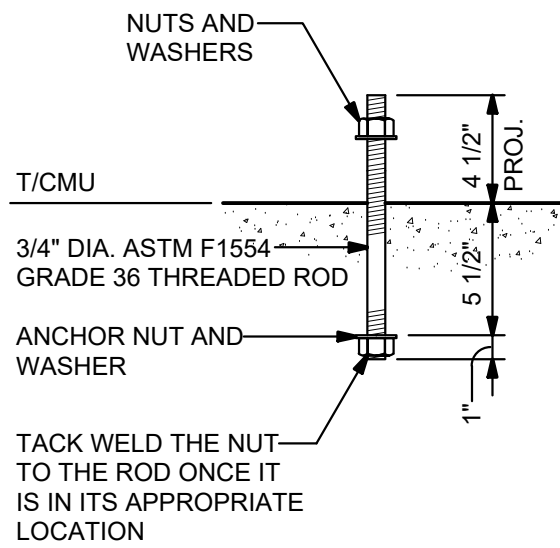
PLATE P-3



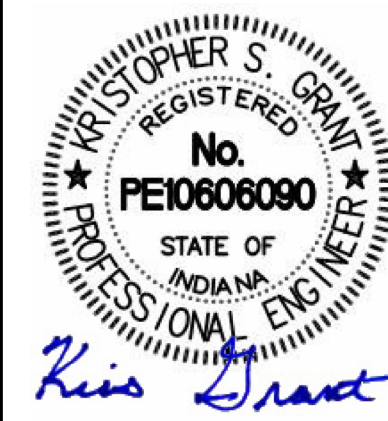
- SECTION
- ELEVATION
- NOTES:
- DETAIL APPLIES AT RECESSED FIRE EXTINGUISHER CABINETS, RECESSED ELECTRICAL PANELS, AND RECESSED HEATING OR COOLING UNITS.
 - FOR LARGER OPENINGS, SEE TYPICAL LINTEL DETAILS AND PROVIDE REINFORCING AT SILL AND JAMBS PER TYPICAL LINTEL DETAILS.

TYPICAL CMU WALL OPENING
AT RECESSED EQUIPMENT

BEAM TO POST/WALL PLATES
1/2" = 1'-0"



ANCHOR ROD DETAIL
1 1/2" = 1'-0"



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DEPARTMENT OF NATURAL RESOURCES
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MARTINSVILLE, IN 46151



Consultant Project No.
2024-423

State Project No.
ENG 2509637113

Revisions:
CONSTRUCTION SET 5-15-2025

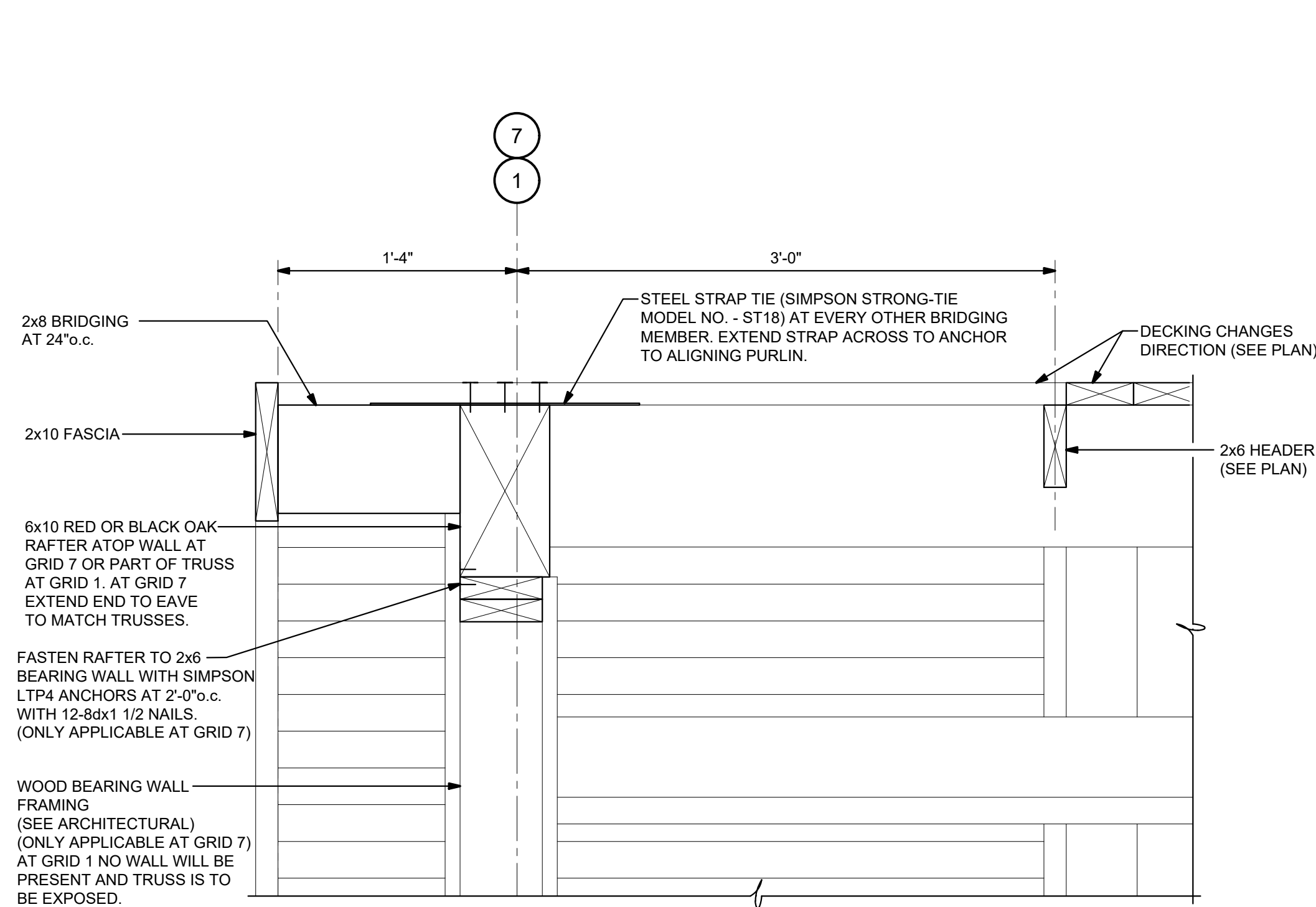
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Drawing Date: 5-15-2025
Drafter: VKB
Drawing Scale: AS NOTED

DNR Approval:

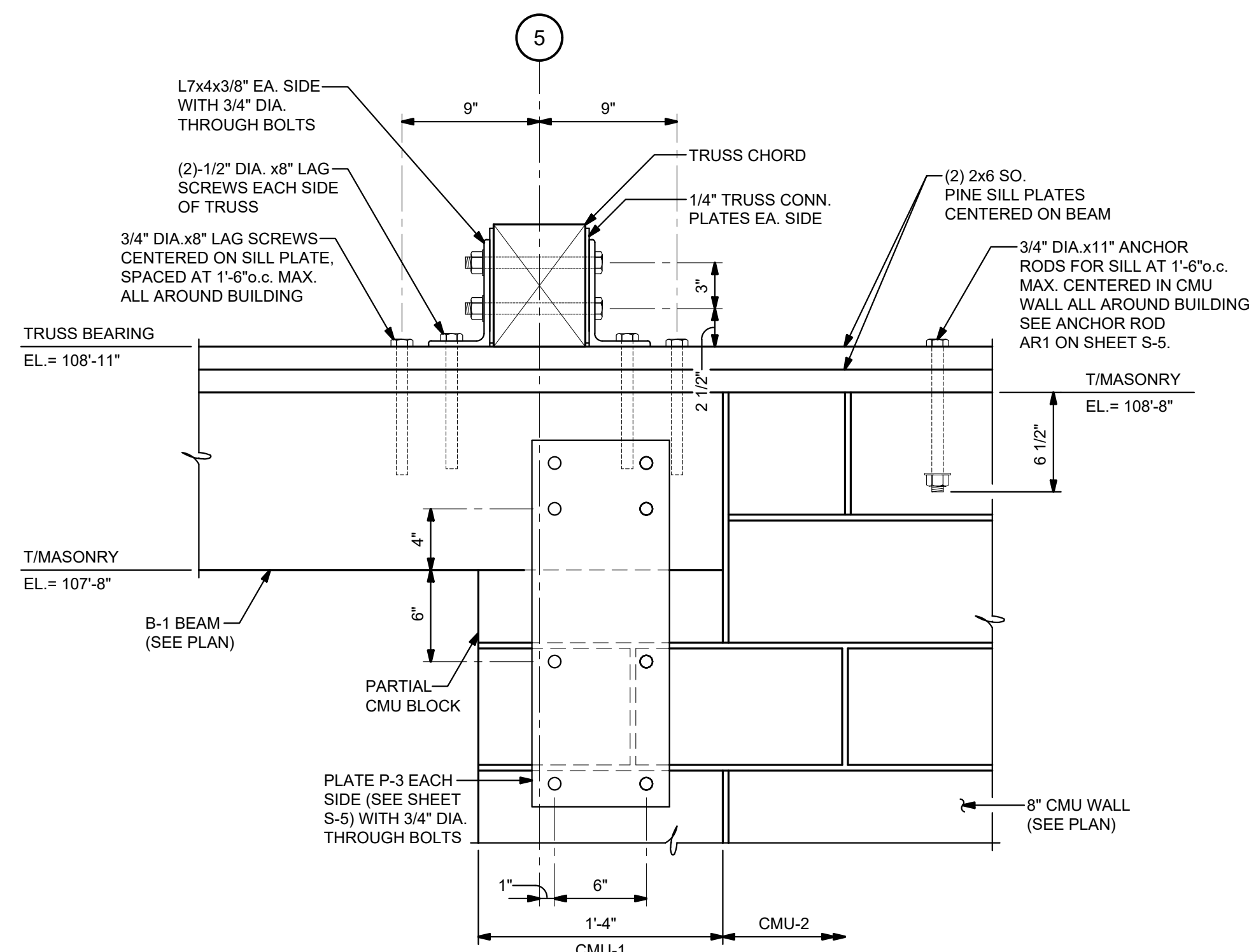
Client Approval:

File Number:
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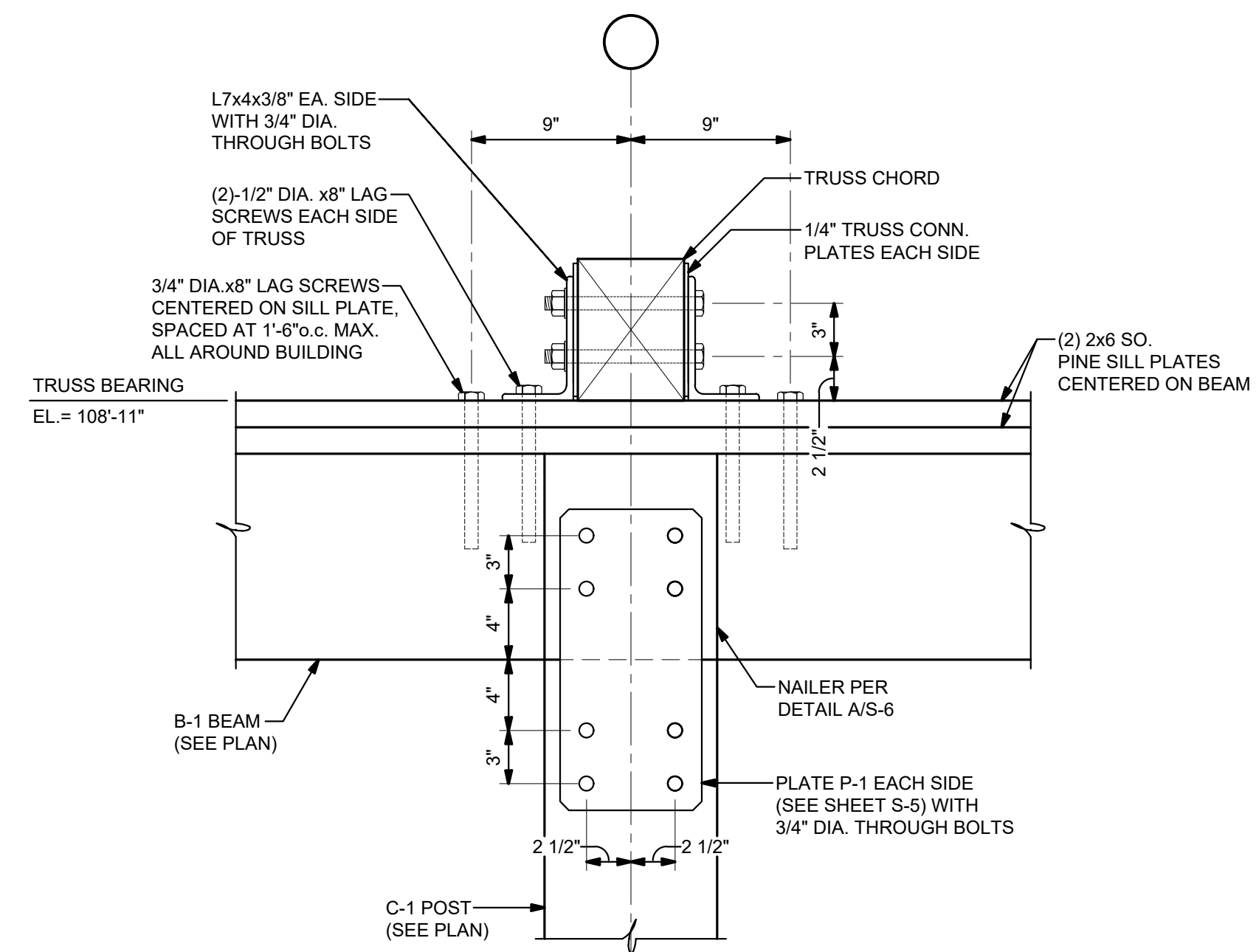
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S-5
Sheet: 13 of 21



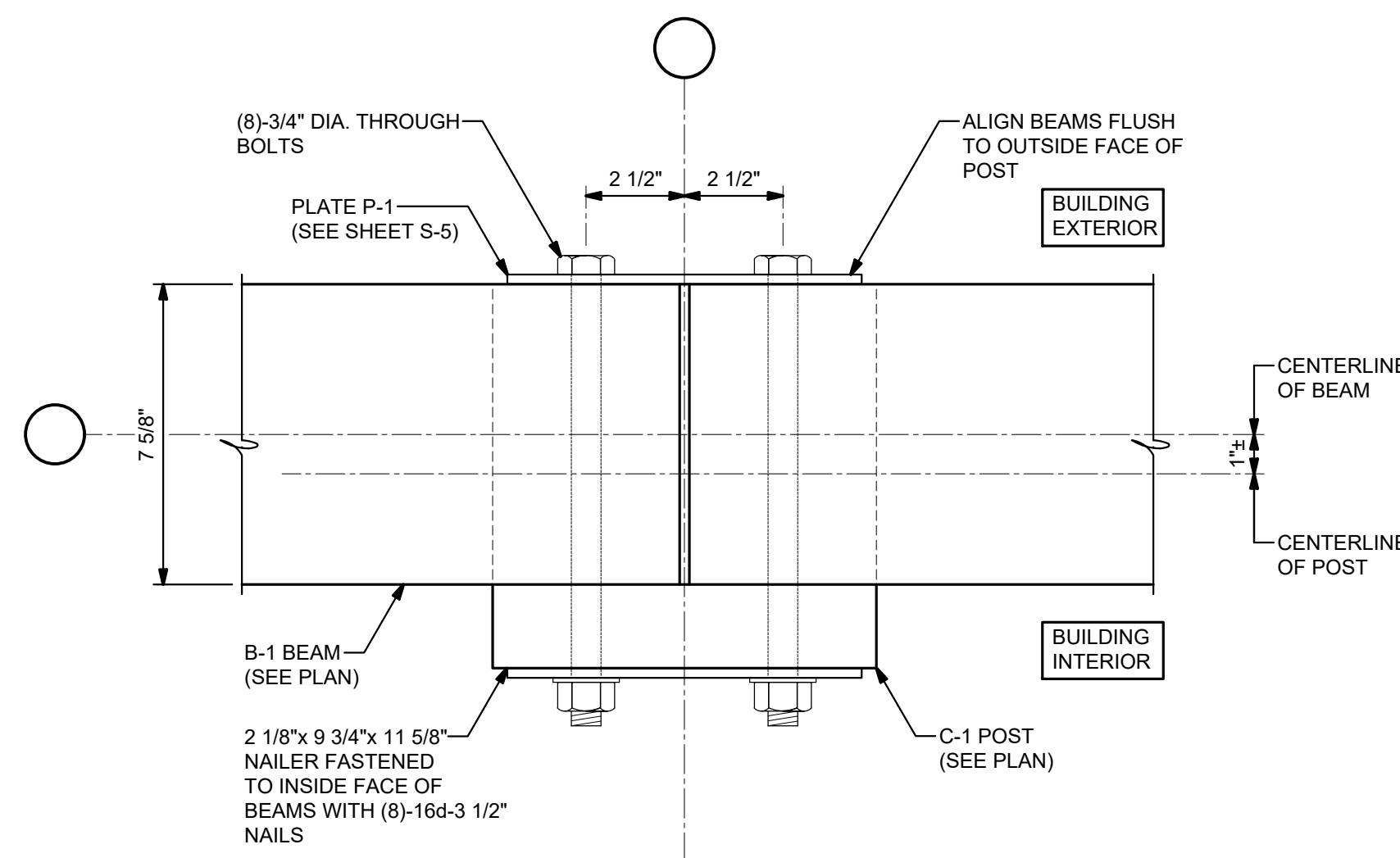
NOTES:
1. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS



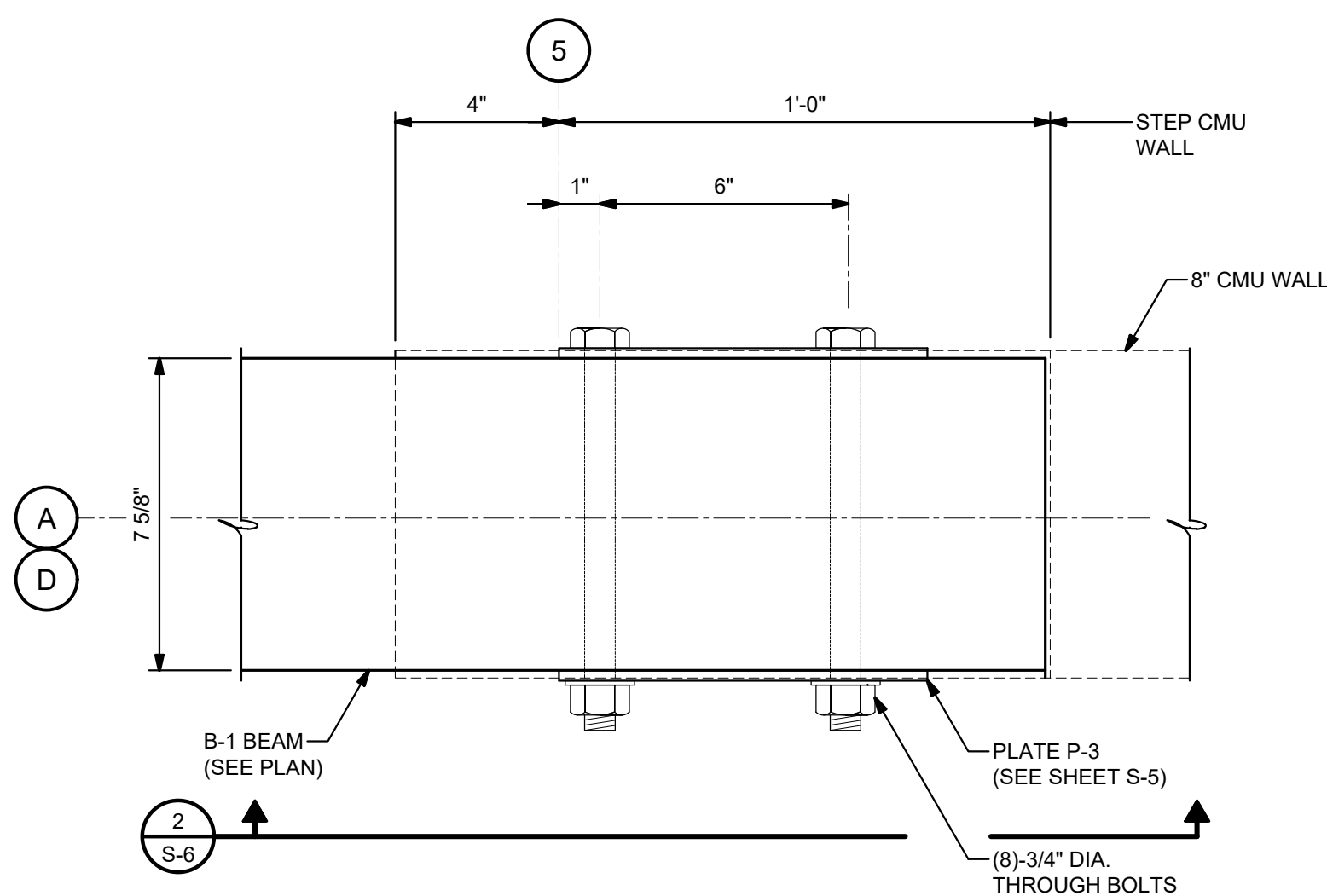
SECTION 2
1 1/2" = 1'-0" S-2, S6



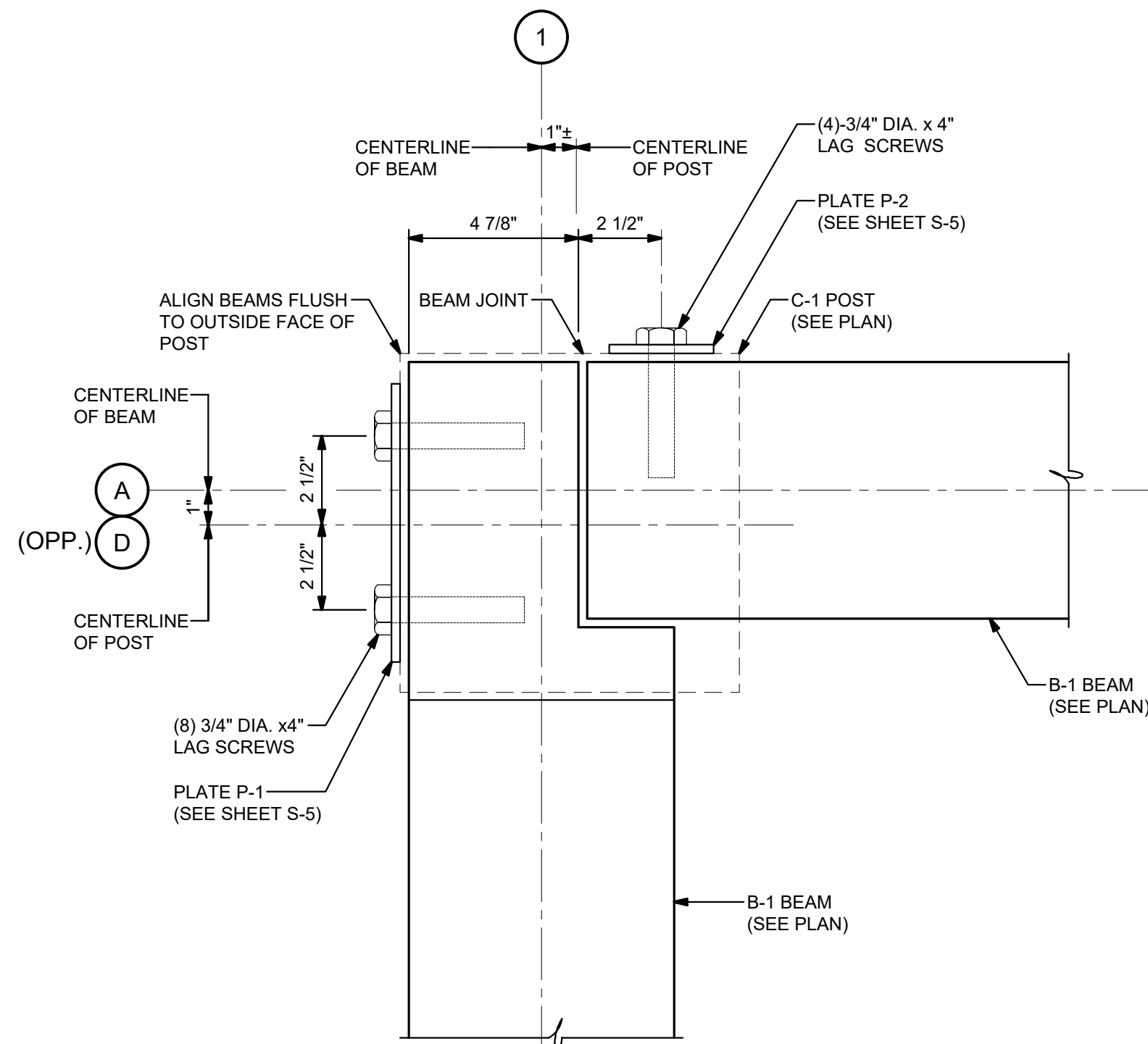
SECTION 1
1 1/2" = 1'-0" S-2



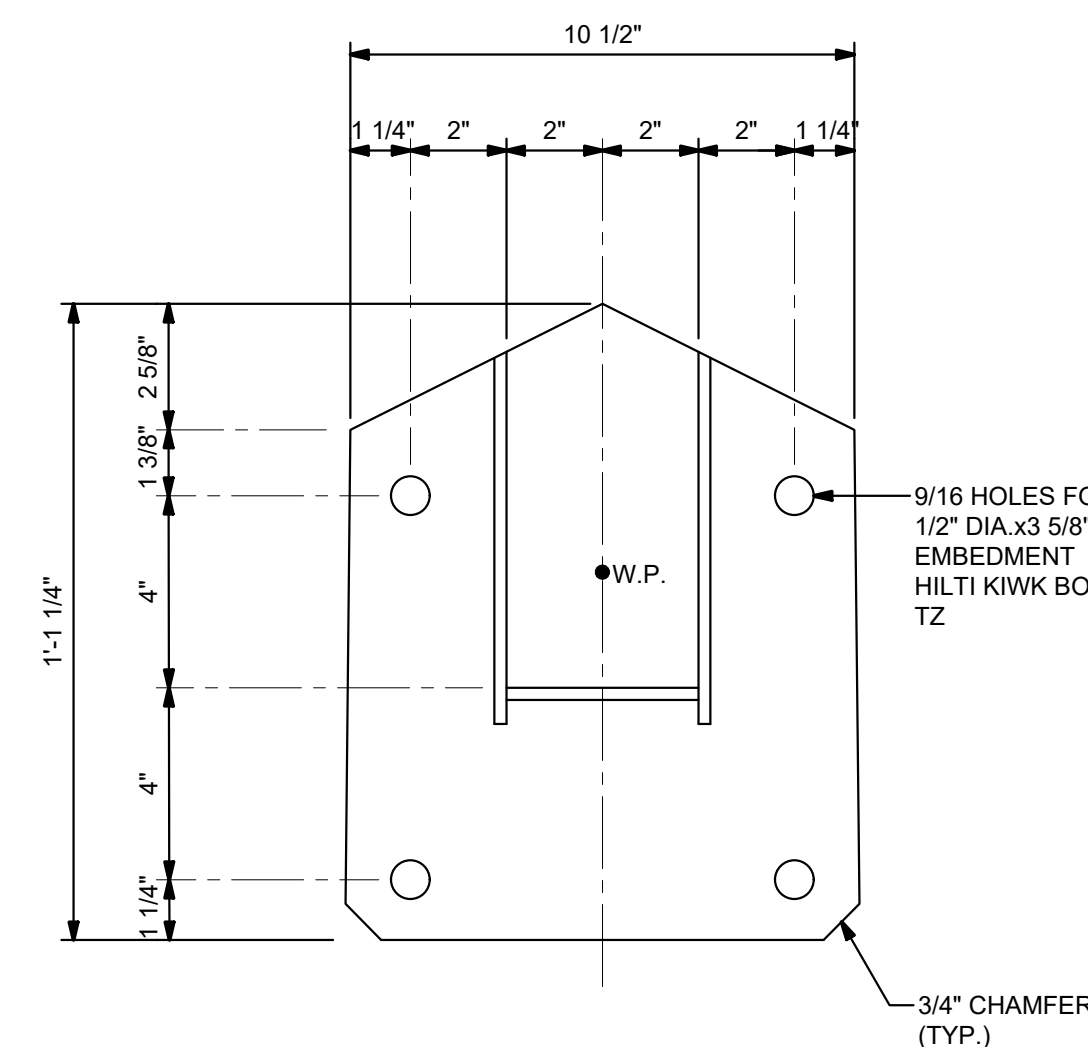
DETAIL A
3" = 1'-0" S-2



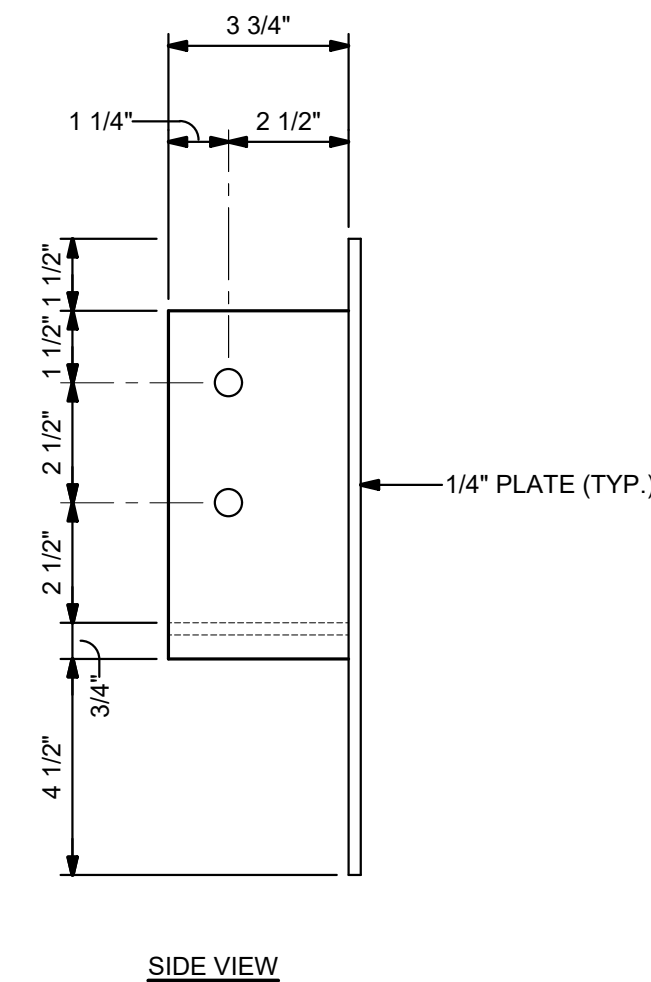
DETAIL B
3" = 1'-0" S-2



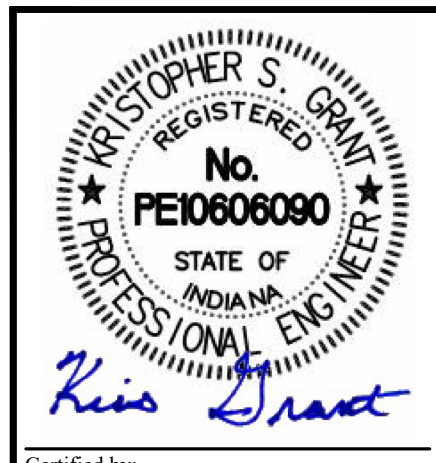
DETAIL C
3" = 1'-0" S-2



SECTION 4
3" = 1'-0" S-2



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Revisions:
CONSTRUCTION SET 5-15-2025

Designer: LMG Drawing Date: 5-15-2025

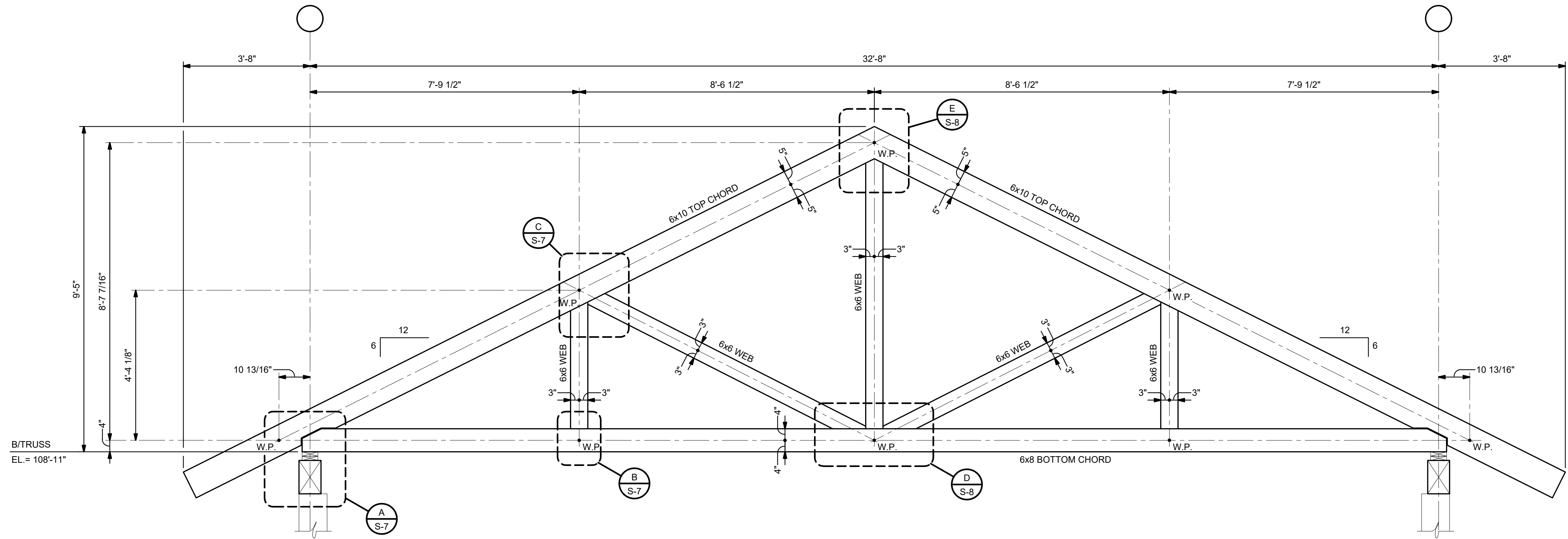
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DNR Approval:

Client Approval:

File Number: 51-85

Drawing Number: **S-6**
Sheet: 14 of 21

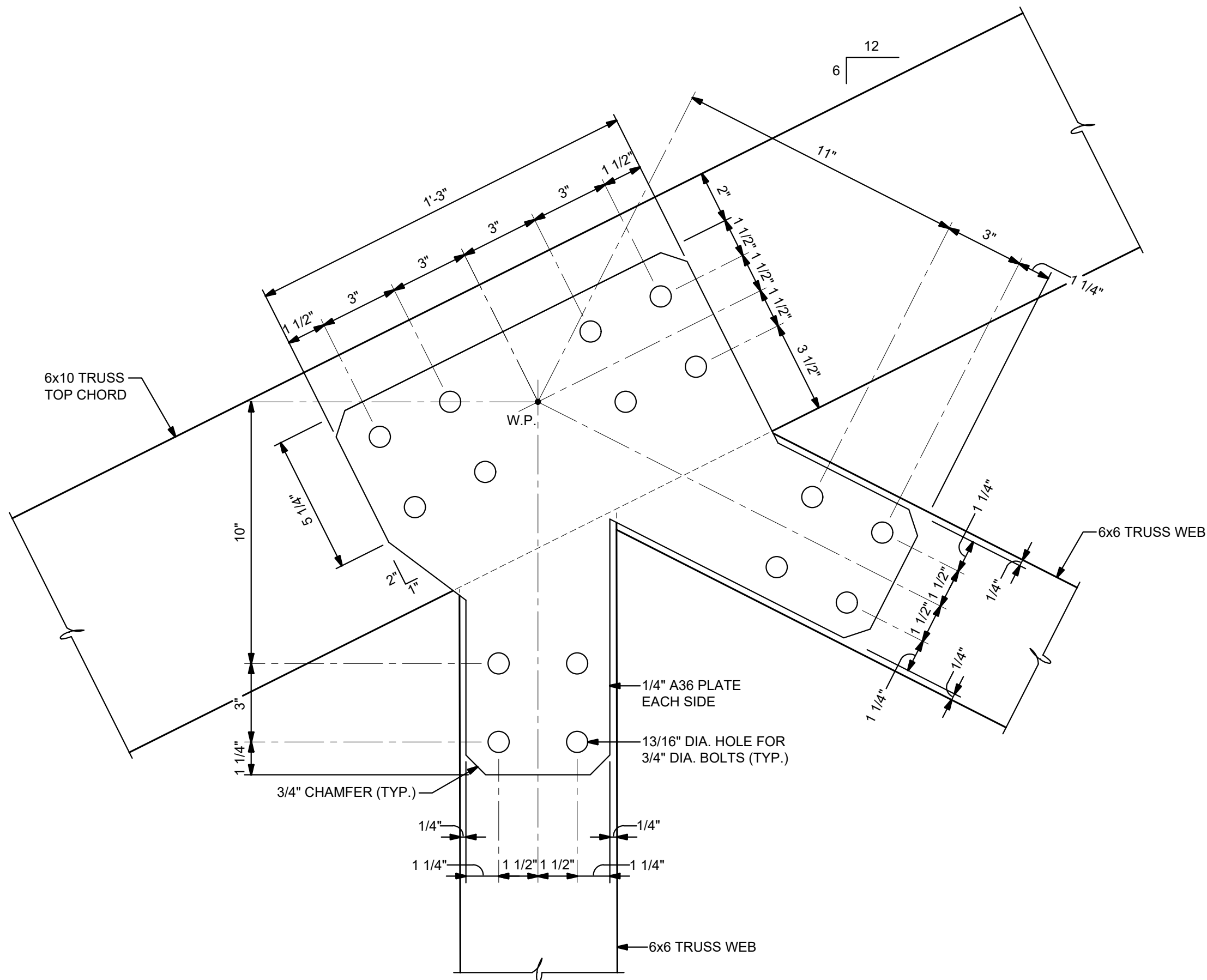


TYPICAL HEAVY TRUSS ELEVATION

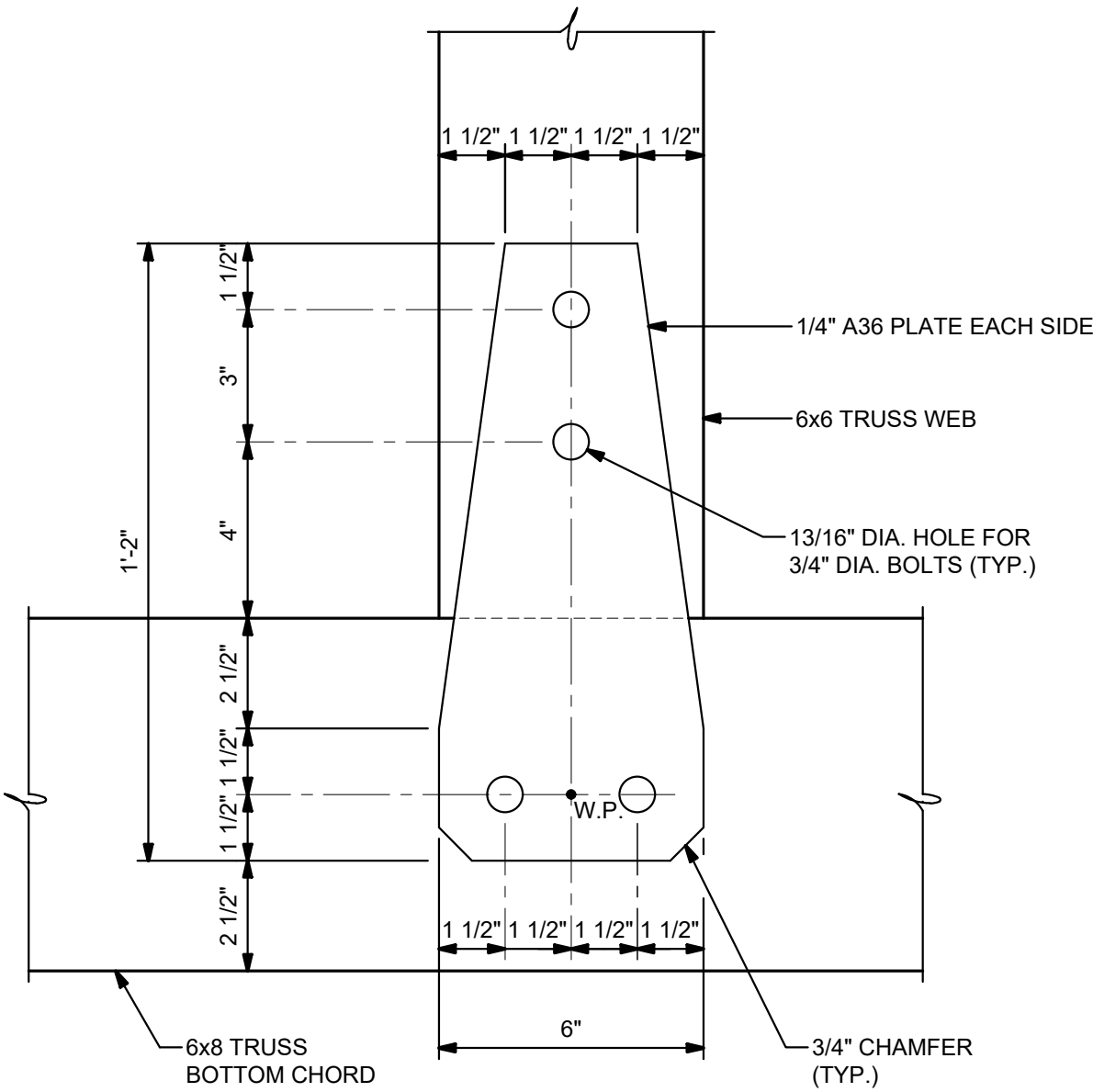
1/2" = 1'-0"

PLAN NOTES:

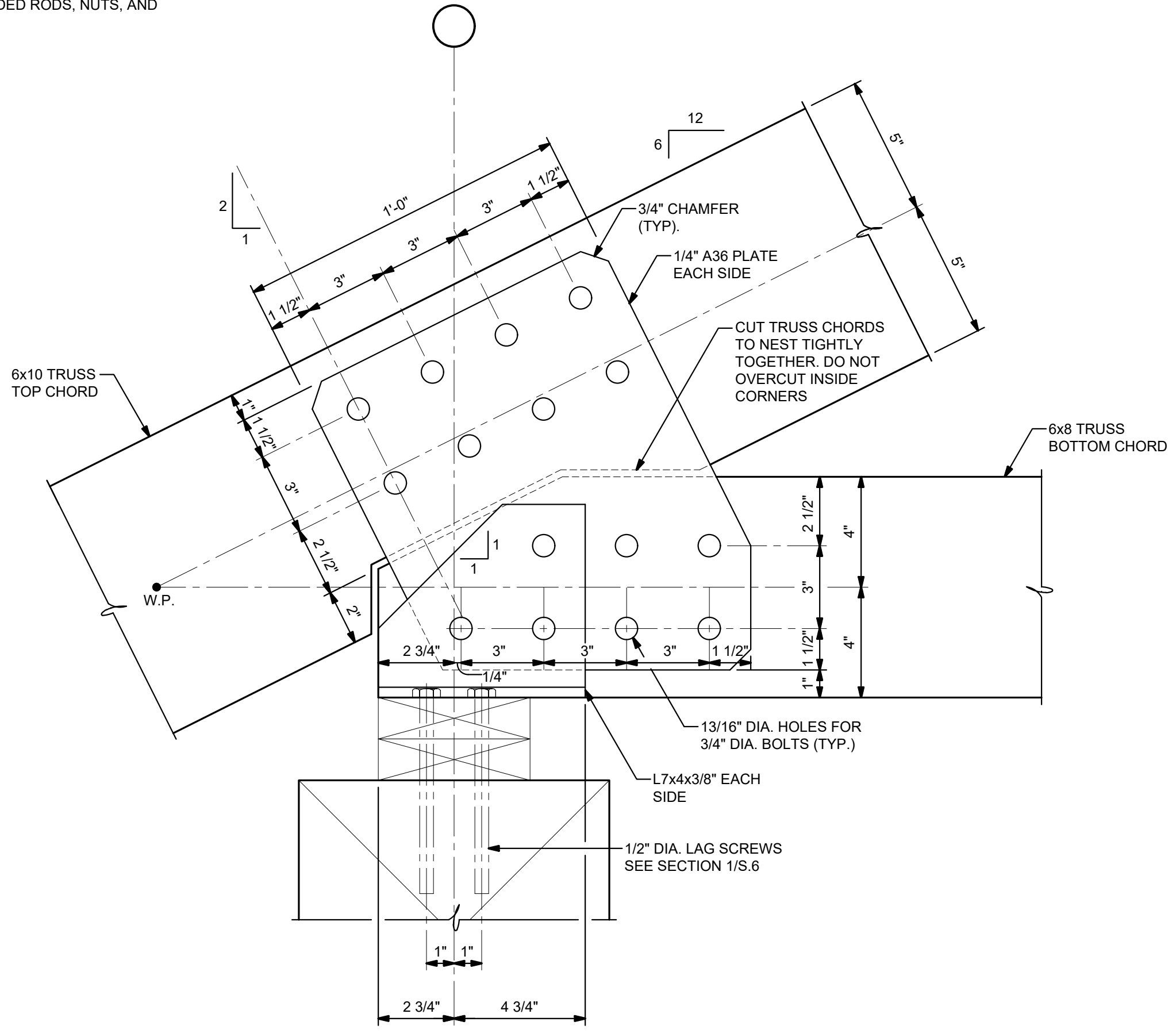
- ALL WOOD FRAMING TO BE NO. 2 RED OR BLACK OAK, ROUGH SAWN DIMENSION.
- ALL GUSSET PLATE ARE 1/4" ASTM A36.
- ALL BOLTS ARE 3/4" DIA. ASTM A307A.
- ALL CONNECTOR PLATES, BOLTS, THREADED RODS, NUTS, AND WASHERS TO BE GALVANIZED.



DETAIL C
3" = 1'-0"



DETAIL B
3" = 1'-0"



DETAIL A
3" = 1'-0"

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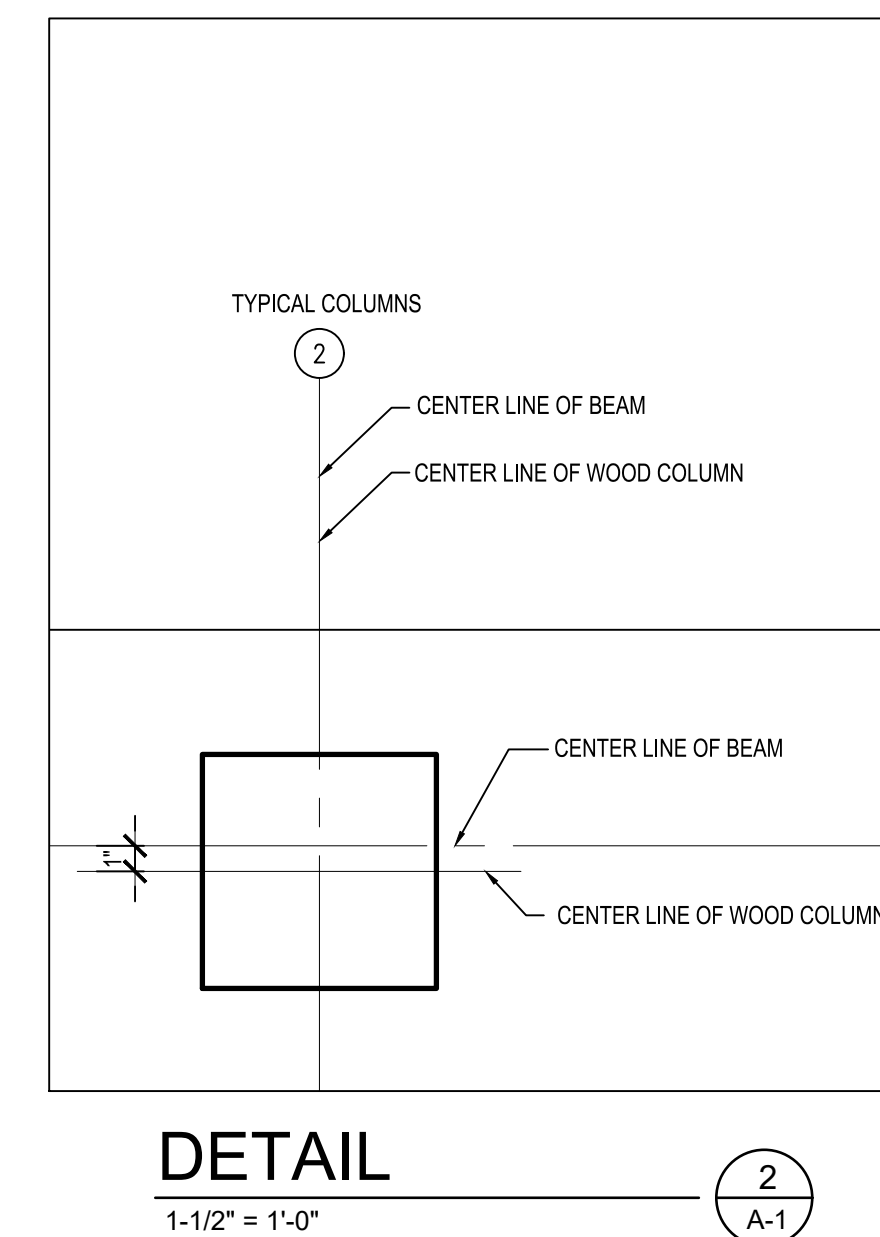
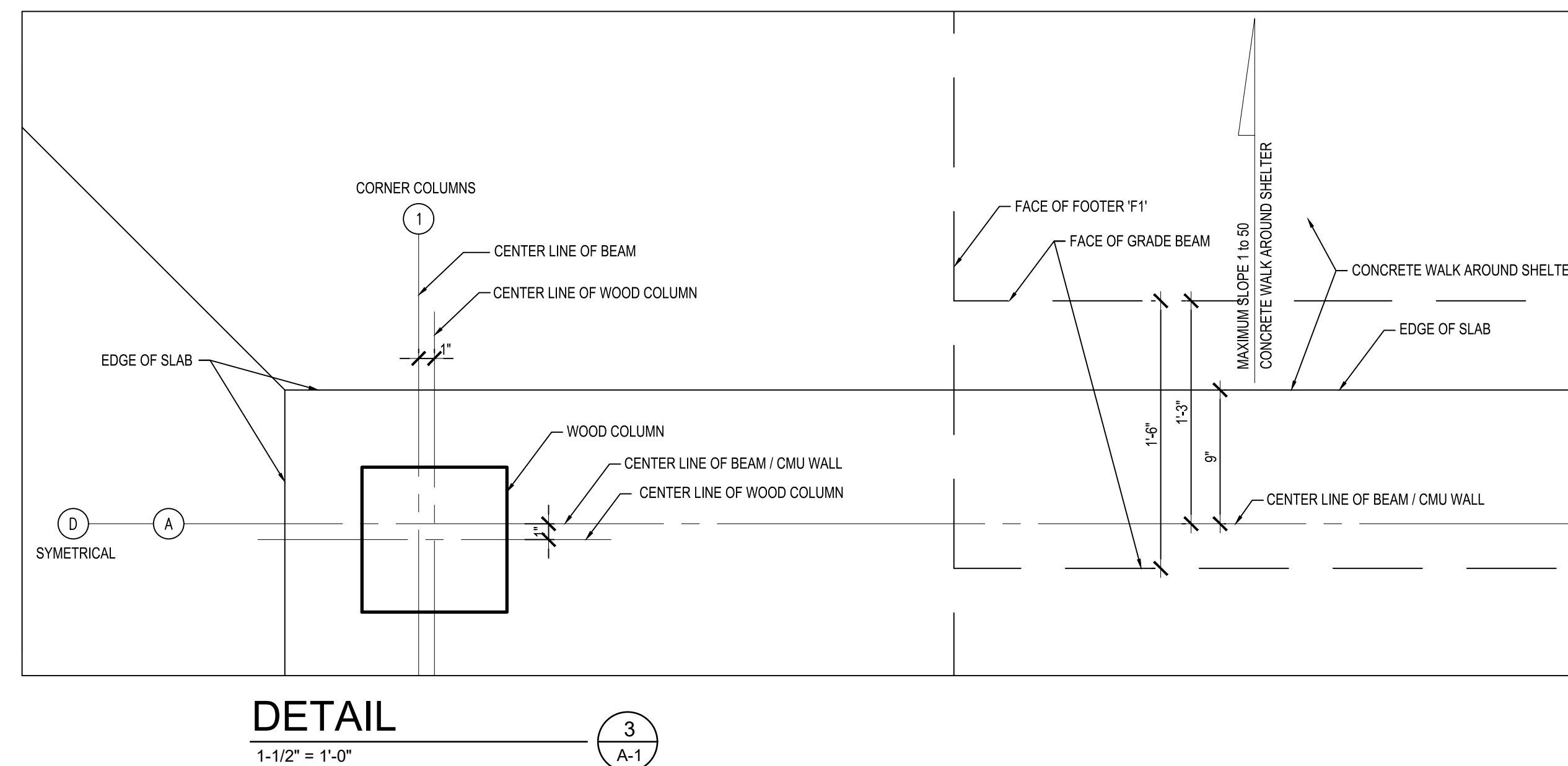
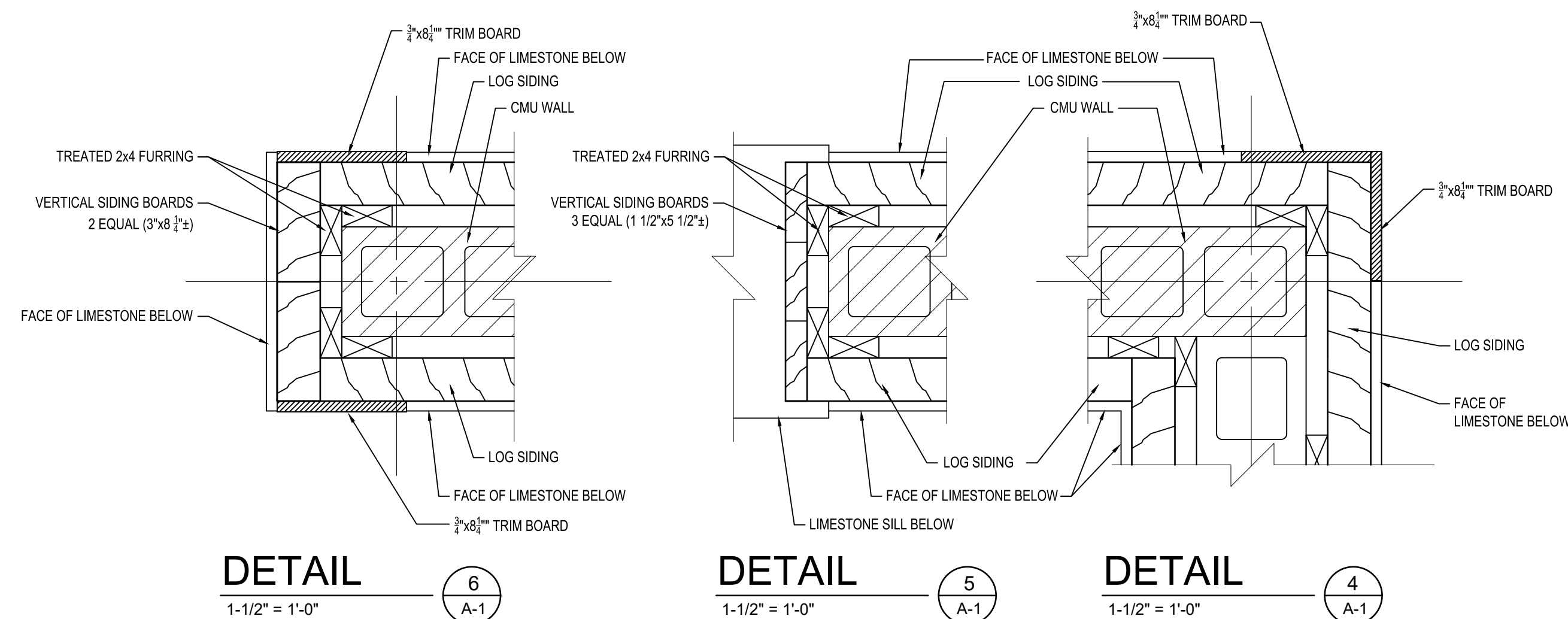
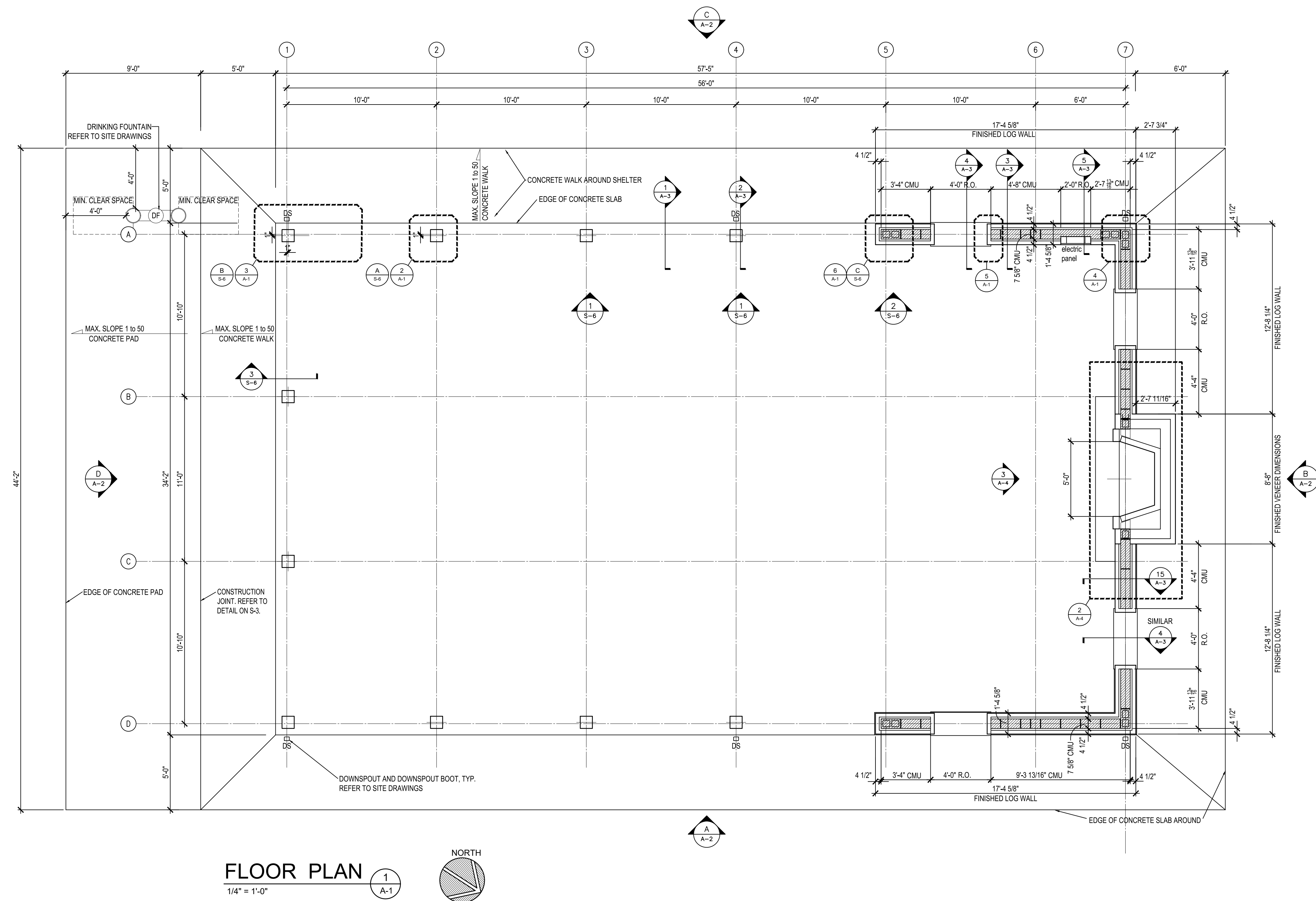
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Drawing Date: 5-15-2025
Drafter: VKB
Drawing Scale: AS NOTED

DNR Approval:

Client Approval:

File Number: 51-85

Drawing Number: S-7
Sheet: 15 of 21



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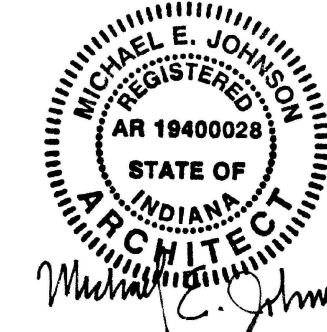
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Consultant Project No.
TLF 2024-423
GONZALEZ 24-13559
State Project No.
ENG2509637113

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1 CONSTRUCTION SET 5-15-2025

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05-15-2025
Drafter:
BD, NS, SD
Drawing Scale:
DNR Approval:
Client Approval:
File Number:
51-85
Drawing Number:
A-1
Sheet: 17 of 21



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BD
Drafter:
BD, SD

Drawing Date:
05-15-2025
Drawing Scale:

DNR Approval:

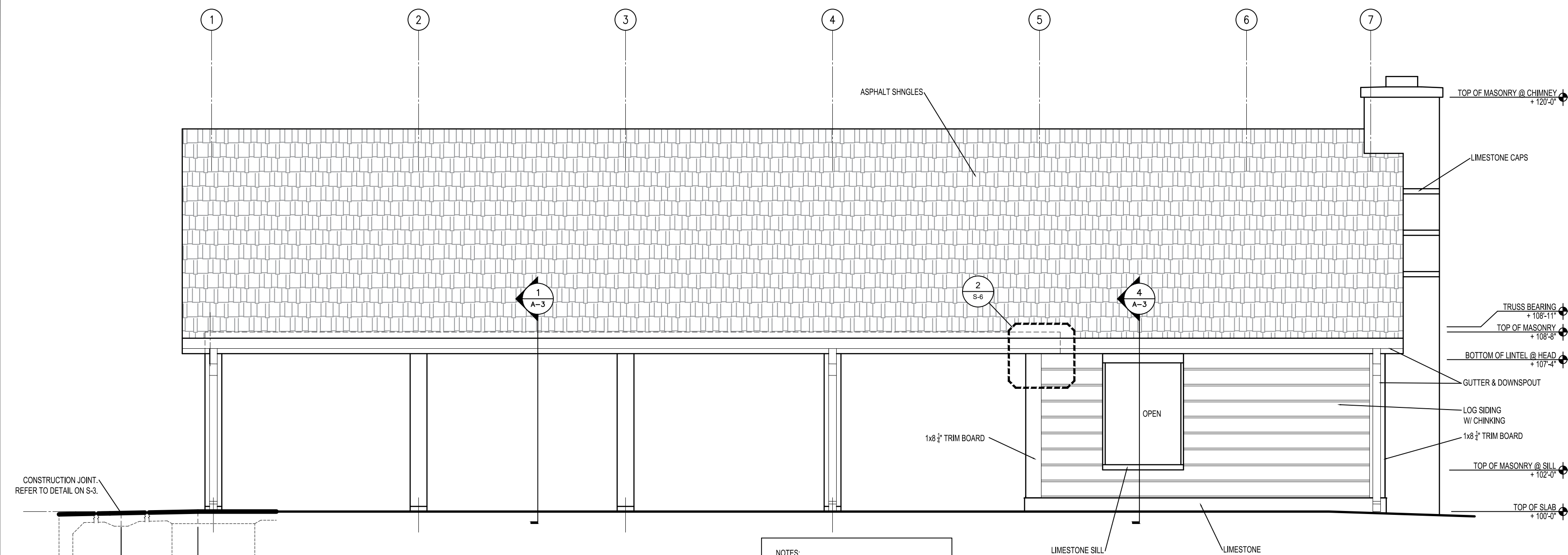
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File Number:
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Drawing Number:

A-2

Sheet:
18 of 21

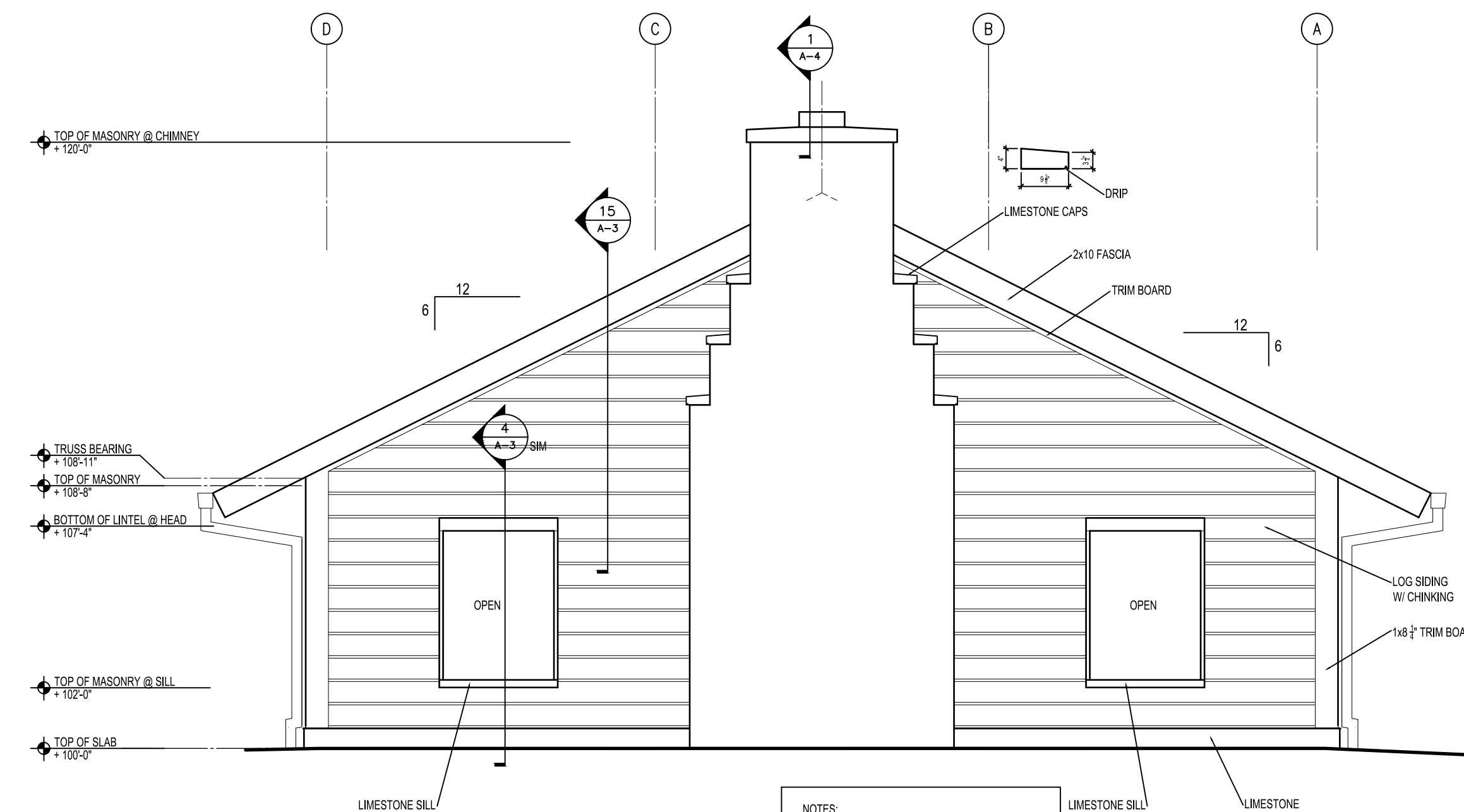


BACK ELEVATION

1/4" = 1'-0"

A
A-2

- NOTES:
1. MINIMIZE BUTT JOINTS IN LOG SIDING
 2. VERTICAL CONTROL JOINTS IN WOOD LOGS AT EACH MASONRY VERTICAL CONTROL JOINT - TYP.
 3. CHINKING TO BE WEATHERALL TRIPLE STRETCH TEXTURED LOG HOME CHINKING WWW.WEATHERALL.COM
 4. SEALANT TO BE LOG BUILDER SEALANT WWW.SASHCO.COM
 5. EXTERIOR STAIN TO BE CONFIRMED AS COMPATIBLE WITH LOG JAM AND LOG BUILDER PRODUCTS BEFORE STAINING.
 6. STAIN LOGS BEFORE CHINKING.

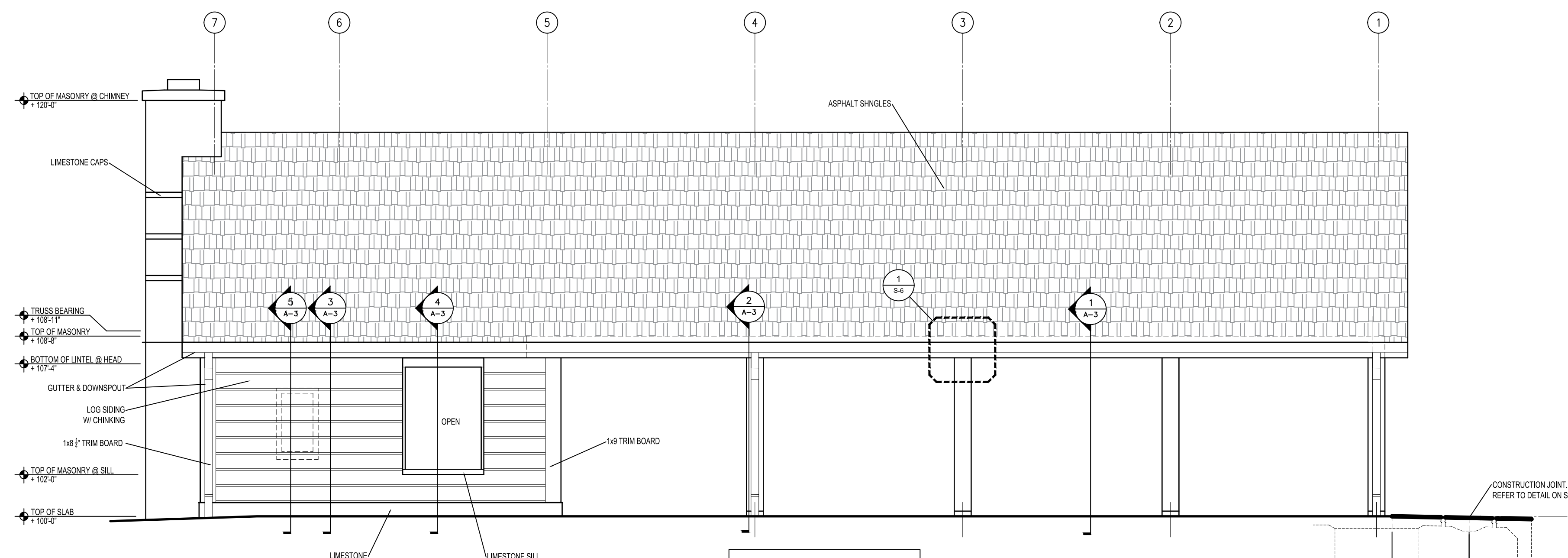


SIDE ELEVATION

1/4" = 1'-0"

B
A-2

- NOTES:
1. MINIMIZE BUTT JOINTS IN LOG SIDING
 2. VERTICAL CONTROL JOINTS IN WOOD LOGS AT EACH MASONRY VERTICAL CONTROL JOINT - TYP.
 3. CHINKING TO BE WEATHERALL TRIPLE STRETCH TEXTURED LOG HOME CHINKING WWW.WEATHERALL.COM
 4. SEALANT TO BE LOG BUILDER SEALANT WWW.SASHCO.COM
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 6. STAIN LOGS BEFORE CHINKING.

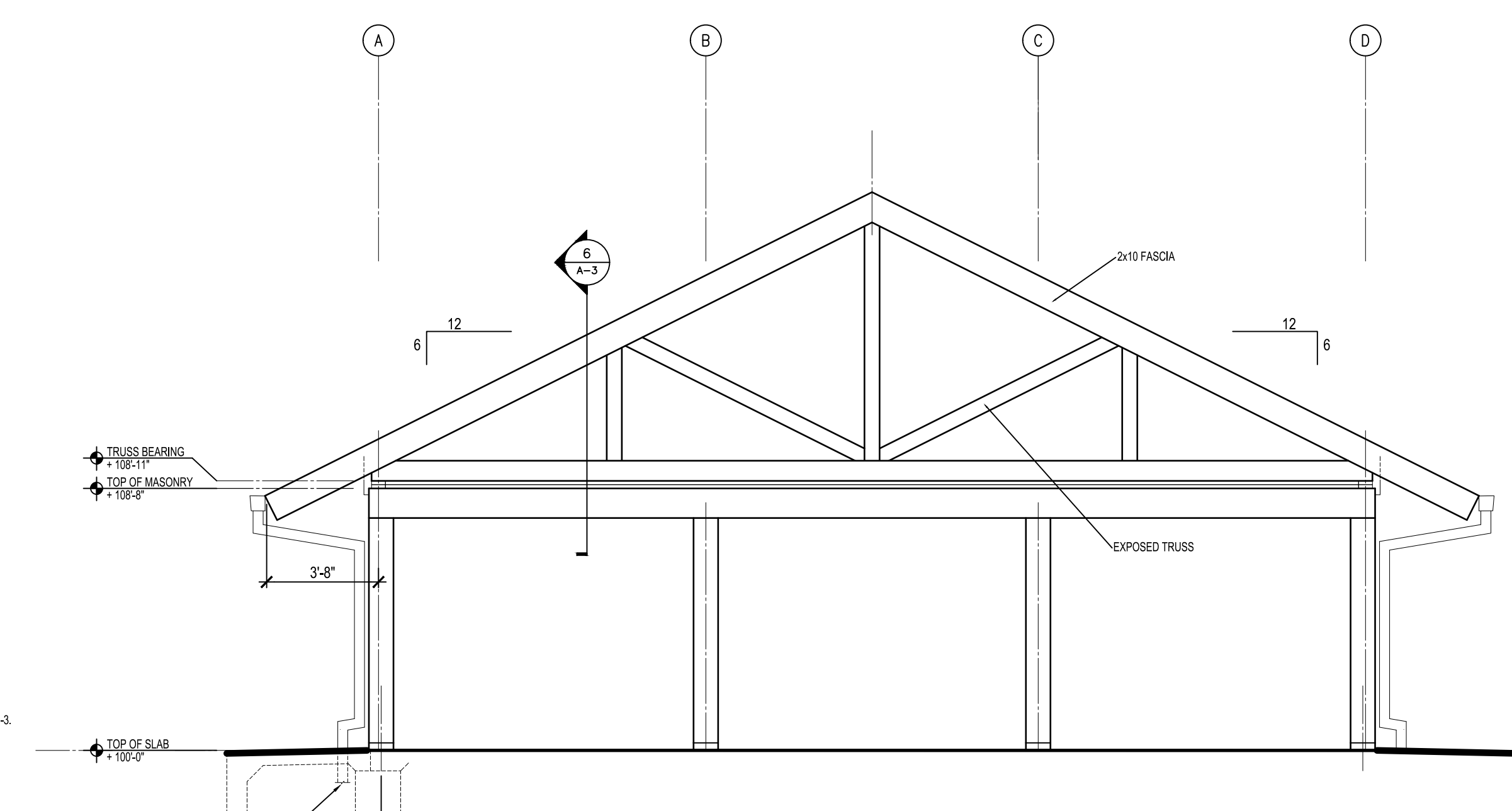


FRONT ELEVATION

1/4" = 1'-0"

C
A-2

- NOTES:
1. MINIMIZE BUTT JOINTS IN LOG SIDING
 2. VERTICAL CONTROL JOINTS IN WOOD LOGS AT EACH MASONRY VERTICAL CONTROL JOINT - TYP.
 3. CHINKING TO BE WEATHERALL TRIPLE STRETCH TEXTURED LOG HOME CHINKING WWW.WEATHERALL.COM
 4. SEALANT TO BE LOG BUILDER SEALANT WWW.SASHCO.COM
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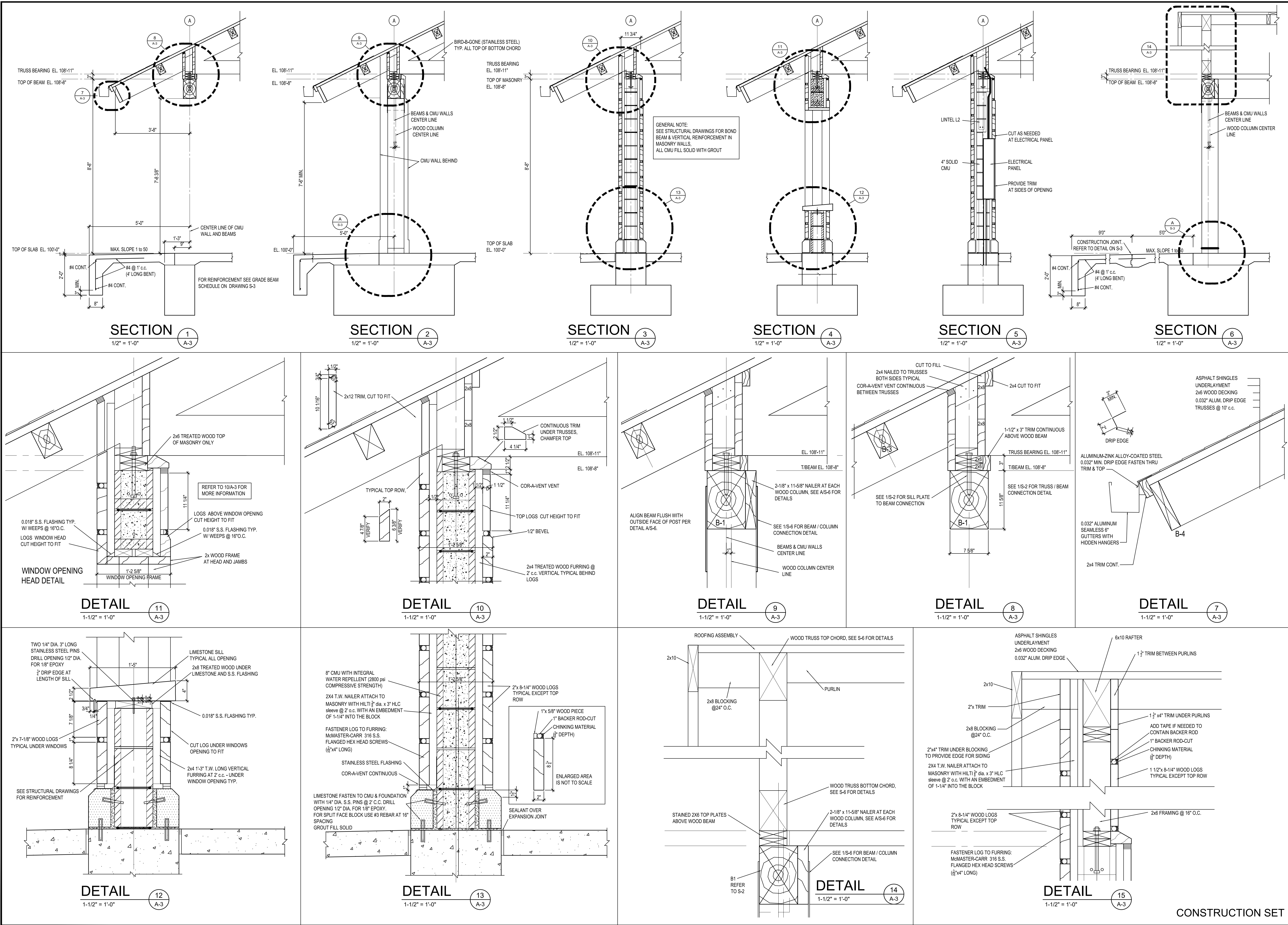


SIDE ELEVATION

1/4" = 1'-0"

D
A-2

CONSTRUCTION SET



MICHAEL E. JOHNSON

REGISTERED

STATE OF INDIANA

ARCHITECT

Michael E. Johnson

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STATE OF INDIANA

DEPARTMENT OF NATURAL RESOURCES

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6220 FOREST ROAD

MARTINSVILLE, IN 46151

Consultant Project No.

TLF 2024-423

GONZALEZ 24-13559

State Project No.

ENG2509637113

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Designer: BD

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Drawing Scale:

DNR Approval:

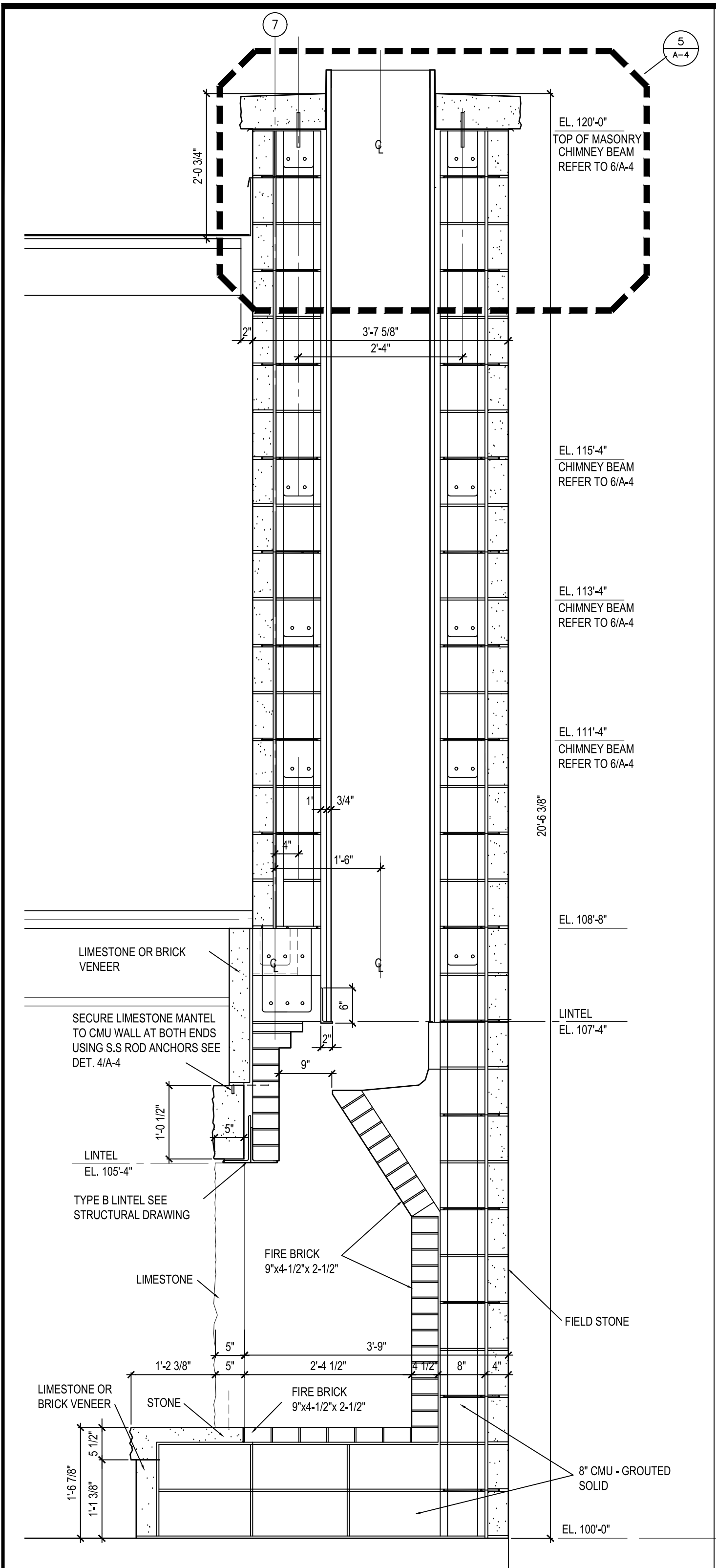
Client Approval:

File Number: 51-85

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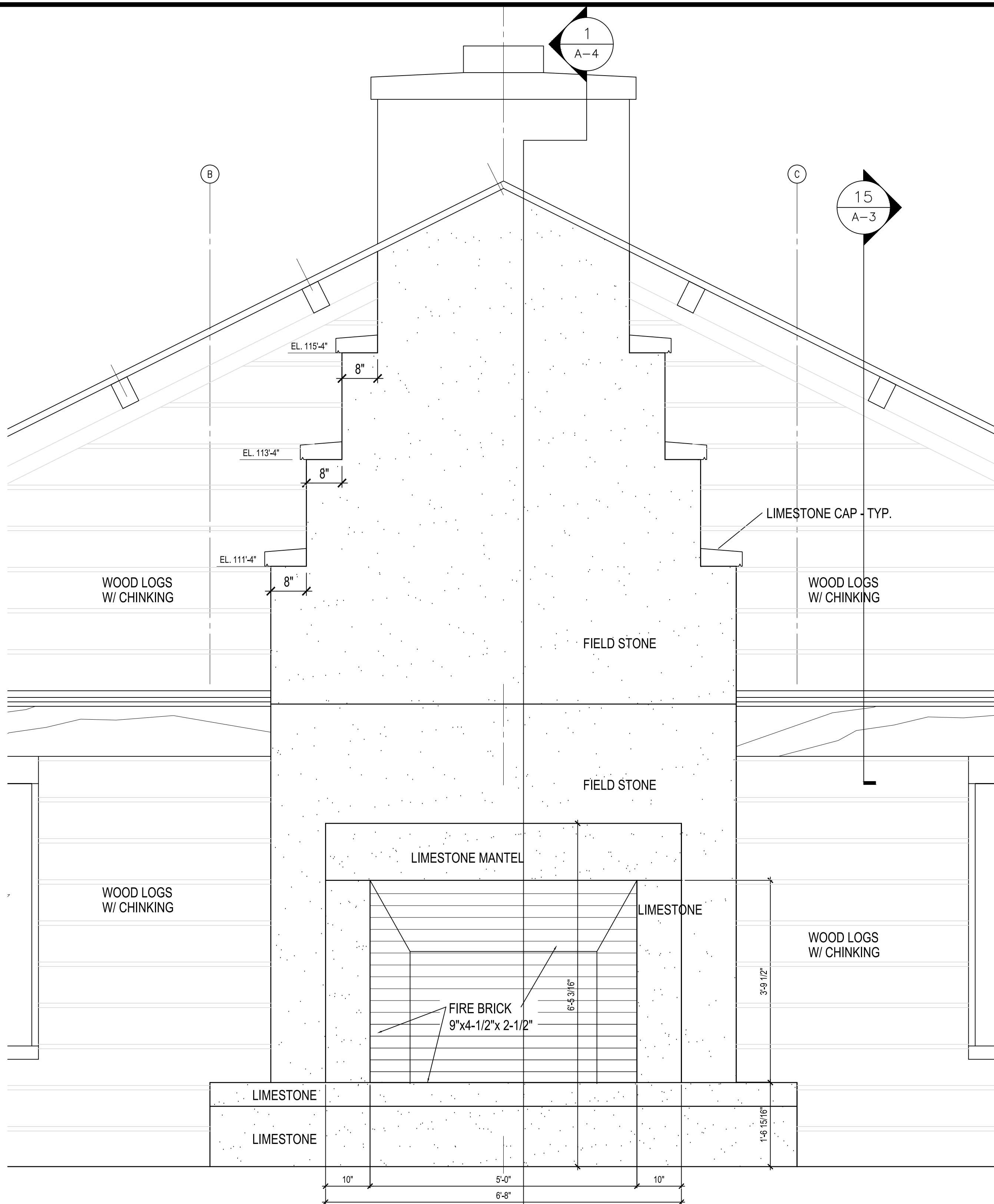
Sheet: 19 of 21

CONSTRUCTION SET



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

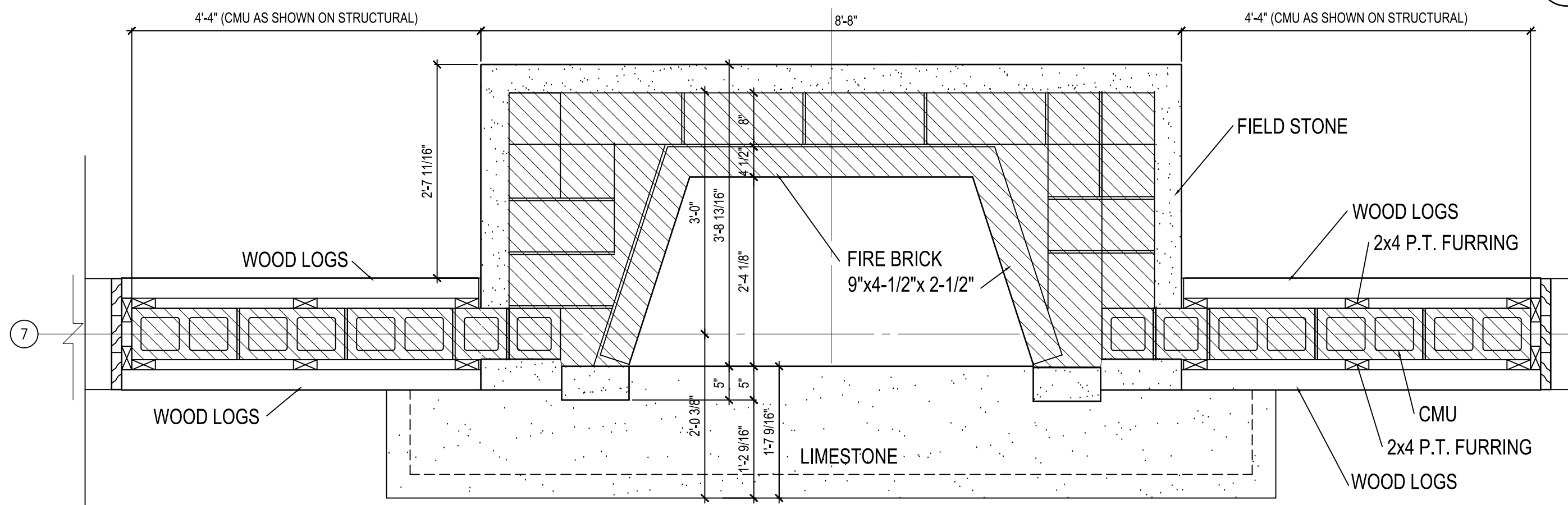
1
A-4



FIREPLACE WALL ELEVATION

3/4" = 1'-0"

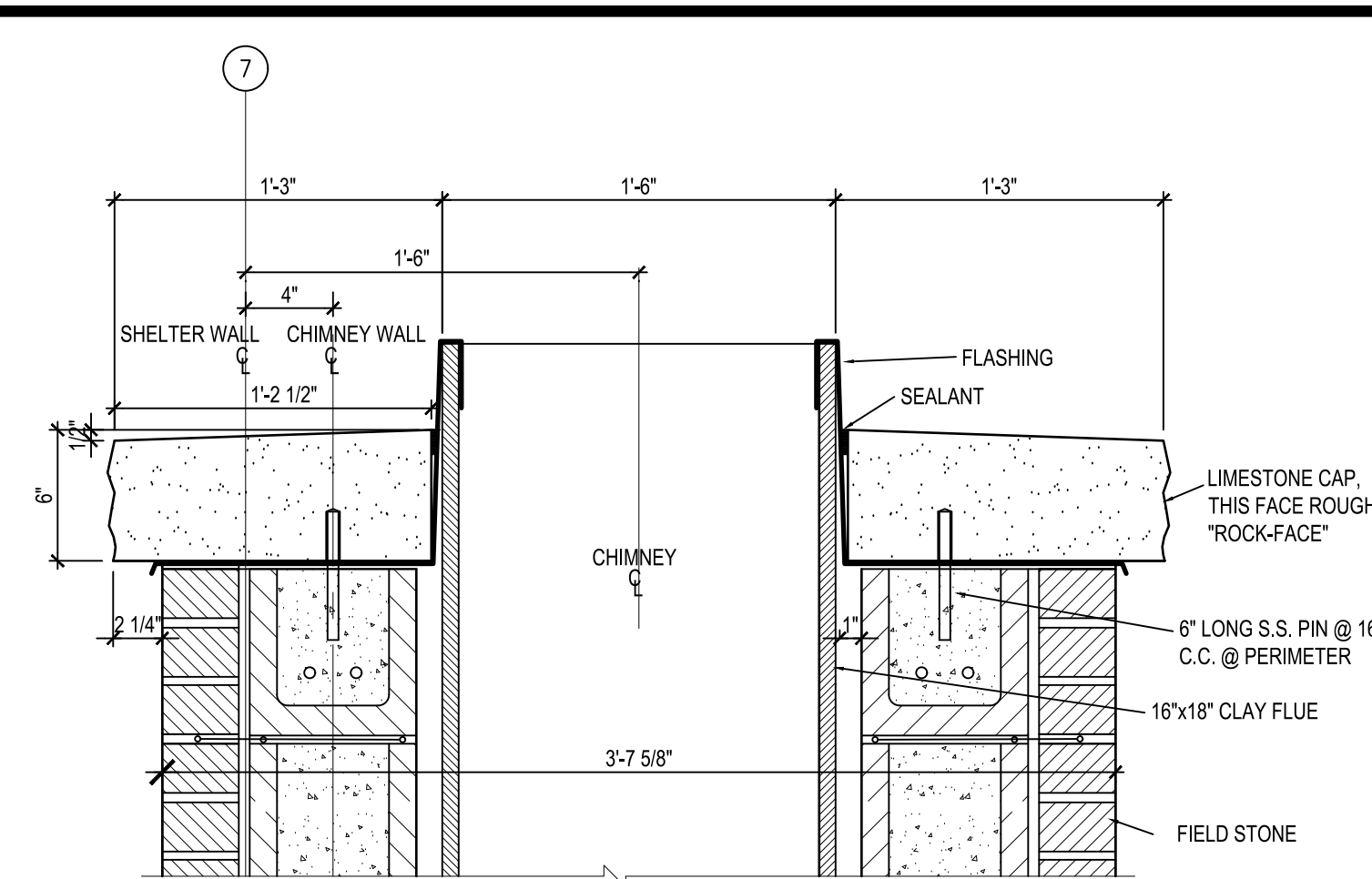
3
A-4



FIREPLACE PLAN

3/4" = 1'-0"

2
A-4

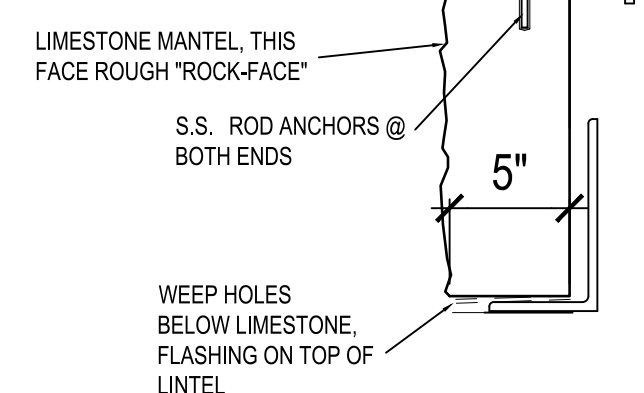


DETAIL 5

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

5
A-4

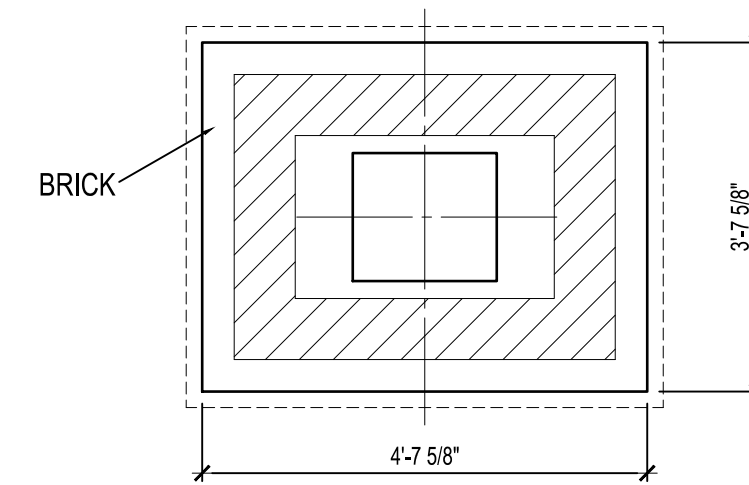
S.S. ROD ANCHORS
- TOP OF MANTEL



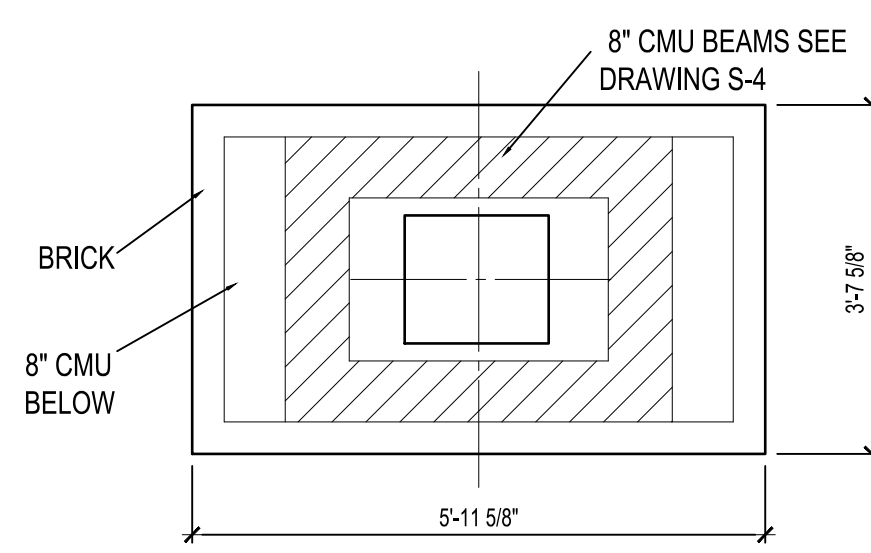
DETAIL 4

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

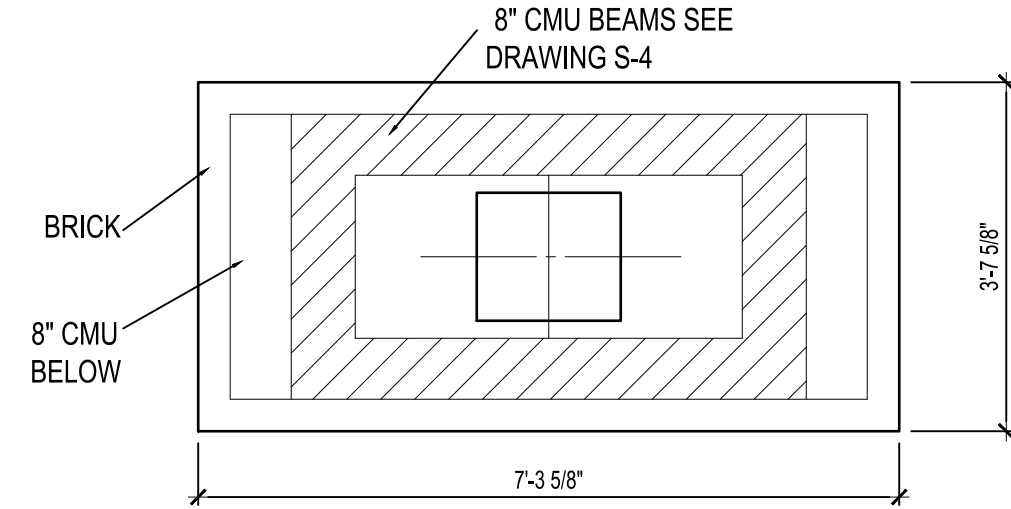
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A-4



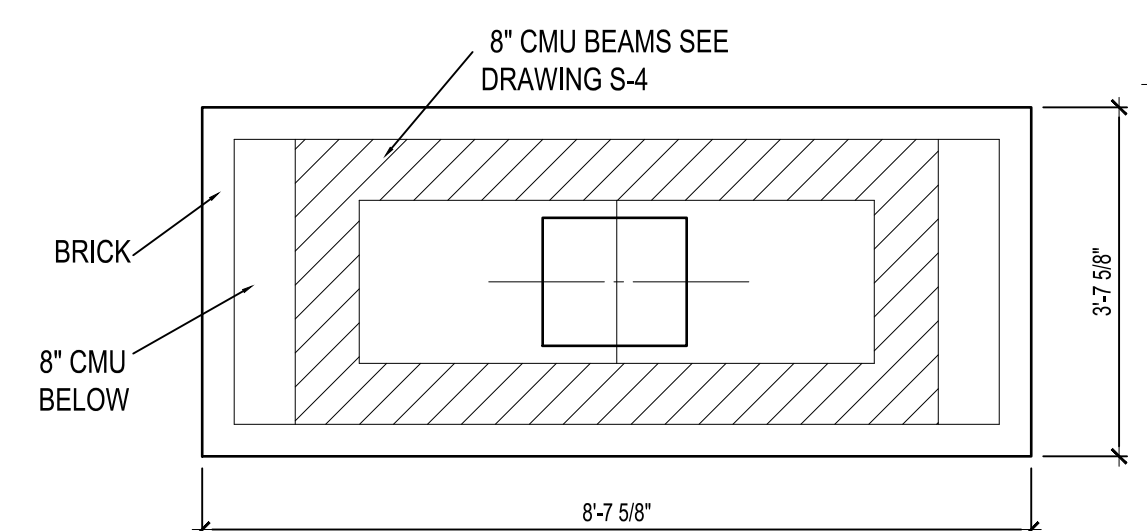
EL. 120'-0" (VERIFY)
TOP OF CMU



EL. 115'-4"



EL. 113'-4"



EL. 111'-4"

CHIMNEY ADDITIONAL BEAMS

1/2" = 1'-0"

6
A-4

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