



# University of Kentucky<sup>®</sup>

Procurement Services

## INVITATION FOR BIDS

CCK-2564.0-9-24

Construct Health Education Building

BP-02

ADDENDUM #3

04/04/2024

**IMPORTANT: BID AND ADDENDUM MUST BE RECEIVED BY: 04/10/2024 @ 3:00 P.M. LEXINGTON, KY TIME**

Bidder must acknowledge receipt of this and any addendum as stated in the Invitation for Bids.

### **ITEM #1: MODIFICATIONS TO THE ORIGINAL BID DOCUMENTS and QUESTIONS & ANSWERS**

- Please refer to the enclosed documents as you prepare your bids.

**OFFICIAL APPROVAL**  
**UNIVERSITY OF KENTUCKY**

**SIGNATURE**

*Ken Scott* 04/04/2024

\_\_\_\_\_

Contracting Officer / (859) 257-9102

\_\_\_\_\_

Typed or Printed Name

University of Kentucky  
Purchasing Division  
322 Peterson Service Building  
Lexington, KY 40506-0005

**UK Construct Health Education Building**  
**ADDENDUM No. 3**  
**UK-2564.0-9-24**  
**4/3/2024**

**Item No. 01** Re: Replace “Attachment A” 3A Page with attached revised “Attachment A”

**Item No. 02** Re: Form of Proposal TC-012, Trailer and Laydown, Attachment B, Use attached revised scope of work.

**Item No. 03** Re: Form of Proposal TC-013, Site Plumbing, Attachment B, Use attached revised scope of work.

**Item No. 04** Re: Form of Proposal TC-014, Site Excavation, Attachment B, Use attached revised scope of work.

**Item No. 05** Re: Form of Proposal TC-015, Foundations, Attachment B, Use attached revised scope of work.

**Item No. 06** Revise Project General Requirements Document to add item 8a:

- 8a. UK student move in is from 8/18/24-8/25/24. Assume extreme traffic congestion on all roads surrounding the project site. Contractors to coordinate with Turner and UK for all onsite work during this timeframe. Assume no road closures or blockages will be allowed. Assume increased travel durations for manpower and material. (ADD #3)

**Item No. 06** Revise Project General Requirements Document to add item 47a subsection v:

- v. Contractors will be able to park in the trailer lot as shown on SK-004.2 AFTER it is complete. Parking passes will be given out on an as needed basis. Contractor can assume 2 passes per prime contractor in this lot, one for their foreman and the other for their shuttle bus. (ADD #3)

**Item No. 08** Revise Project General Requirements Document to add item 71b:

- 71b. Provide (2) heated temporary hand washing stations similar to PolyJohn PSW3-2000. Electrical connection by others. Coordinate with CM on final locations. (ADD #3)

**Item No. 09** Replace SK-001 with revised SK-001.

**Item No. 10** Replace SK-002 with revised SK-002.

**Item No. 11** Replace SK-004 with revised SK-004.

**Item No. 12** Add Sketch SK-005 “Tower Crane Reinforcement”

**Item No. 13** Add Sketch SK-006 “BP-02 Site Storm Installation Plan”

**Item No. 14** Revise Special Conditions Article 2 to read:

The Lexington Fayette Urban County Government (LFUCG) Sewer Tap Fee shall be secured and paid for by the Trade Contractor(s). The sewer tap fee is for all projects, regardless of type, is presently calculated by the LFUCG and is based on \$1.56 per square foot. The total fee is anticipated to be ~~\$702,000~~ \$811,200, based on ~~450,000~~ 520,000 Total Square Feet. (ADD #3)

**Item No. 15** See answers to all submitted questions.

**Item No. 16** JRA Architects Addendum No. 03 – include all work scope items, clarifications, etc. as detailed consistent with your trade contract work scope document.

**Attachment “A”  
ADDITIONAL PROVISIONS**

**A. GENERAL**

*Attachment A – Additional Provisions and Attachment B – (Technical) Scope of Work go together to define the requirements of this Subcontract. Attachment A is a more of a general Summary of the Contract Documents, Price, etc., while Attachment B is the Trade Specific (technical) Scope of Work.*

The Additional Provisions and Scope of Work is intended to be general in nature. The intention is to have this Subcontractor perform all related work shown on the Contract Documents other than those items specifically indicated below to be excluded. The Additional Provisions and Scope of Work takes precedence over the Drawings & Specifications in the event of a conflict in trade assignment or responsibility. By accepting this contract, the Subcontractor is verifying that the plans and specifications clearly identify the Subcontractor’s work.

The terms “Sub-contractor”, “Trade contractor” & “Contractor” will be used interchangeably throughout the contract documents. A Sub-contractor, Trade contractor or contractor has a contract with Turner Construction Company, the Construction Manager. This Trade Contractor is responsible for all contract documents (specifications, drawings and scope of work).

**B. CONTRACT DOCUMENTS**

- Contract Drawings – University of Kentucky Health Education Building #2564.0 as prepared by JRA Architects
- Project Manual, prepared by Turner Construction & JRA Architects. – University of Kentucky Health Education Building
- Addendum #\_\_ dated \_\_\_\_ prepared by Turner
- Addendum #\_\_ dated \_\_\_\_ prepared by Turner
- Addendum #\_\_ dated \_\_\_\_ prepared by Turner
- Addendum #\_\_ dated \_\_\_\_ prepared by Turner

**C. ADDITIONAL CONTRACT DOCUMENTS**

- **Attachment “B” – Trade Contractor \_\_\_\_ Scope of Work**
- **Project General Requirements**
- **Project General Conditions**
- **Project Special Conditions**
- Turner Subcontract Form 36
- **Attachment “C” Project Safety Program**
- **Attachment “E” Accounting Procedures**
- **Attachment “F” Percentage Markup Sheet**
- **Attachment “G” Project Schedule**
- **Attachment “H” BIM General Requirements**
- **Attachment “I” Lean Subcontract Exhibit**
- **Attachment “J” Electronic Agreement**
- **Attachment “K” CCIP Manual dated November 15<sup>th</sup>, 2023**
- **Attachment “L” UK HEB Tree Protection Standard**
- **Attachment “M” Construction Waste Management and Disposal**
- **Attachment “N” Turner Subcontractor Onboarding**
- **Attachment “O” Enhancing Worker Experience Plan**
- **Sketches SK-001 through ~~SK-004~~ SK-006 (ADD #3)**
- **Note:** The General Building Permit will be provided by the others (architect). Obtain all other required permits; submit copies to the Construction Manager.
- **Note:** This Trade Contractor is required to sign Turner form 36 subcontract agreement included in the scope of work manual, which takes precedence over the General & Special Conditions
- All “Additional Contract Documents” have either been provided to Subcontractor, or are attached to this contract. Signature of Contract by Subcontractor indicates receipt and acceptance of these documents as part of the Contract.

**Attachment "A"**  
**ADDITIONAL PROVISIONS**

- All contractors shall refer to Attachment N for the Subcontractor Onboarding Instructions. Contractors are encouraged to complete this process prior to bid opening, as it will expedite contracting with Turner.

**D. CONSTRUCTION SCHEDULE**

- Refer to Project Milestone schedule (ATTACHMENT "G") included in project manual.
- Shift work, multiple mobilizations, and out of sequence work will be required. It is imperative that all milestones be met. The Bidders shall include all necessary costs, including, but not limited to, premium time, shift work, out of sequence work, etc. to meet these milestones.
- Due to the critical nature of the schedule, the Trade Contactor must supply the Construction Manager a detailed plan for his production on the project within 20 calendar days of Contract Award. Please note that this plan must be compatible and complimentary to the Project Schedule. Plan shall include the following items:
  - A. Starting, peak, and final manpower requirements, including subcontractors. Include production rates if requested
  - B. Shift work plan.
  - C. Number of Foremen
  - D. Anticipated lead times and permit approval.
  - E. The Trade Contractor shall work with the Construction Manager and Contractors in "Pull Planning" and the 6-week look-ahead schedule, including manpower information, on a weekly basis. Compliance is a prerequisite for payment.

**E. WORK INCLUDED**

Refer to Attachment "B" – Scope of Work

**F. SPECIAL REQUIREMENTS**

- Sales/Use Tax Status: Refer to "Instruction to Bidders" of Bid Manual for details. This project is taxable, all applicable taxes in your bid.
- Prevailing Wage: N/A, not required.
- Insurance Program: This Project shall utilize a Contractor Controlled Insurance Program ("CCIP"). Refer to attachment K of Bid Manual for details, instructions, etc.
- Retainage: If job is Kentucky (any job) – Retainage Conditions shall be in accordance with the "Fairness in Construction Act" of 2007. Namely, Retainage for all Subcontractors shall be 10% until both the Project and the Subcontractor achieves 50% completion. At that point, retainage for all Subcontractors shall be reduced to 5% of Total Contract Value.
- E&O Insurance: N/A
- Builders Risk: (policy by Turner). Refer to Project General Requirements document for details including responsibility for deductible. Any such event occurring upon the Work site, covered under Builder's Risk policy and for which a claim is filed, the causing subcontractor shall be held responsible to incur the deductible cost of this policy in its entirety for said occurrence.
- Application for Payment: Unless otherwise directed or authorized, in writing, by Contractor, all Applications for Payment and all supporting documents (including but not limited to lien waivers, sworn statements, and the like) for Subcontractor and its sub-subcontractors and suppliers, shall be in electronic format and shall be submitted to Contractor using the Textura-CPM™ payment management system. Subcontractor shall be responsible for the fees and costs owed associated with Subcontractor's use of the Textura-CPM™ payment management system. Subcontractor shall include a similar provision in its sub-subcontracts and purchase orders. Fees to Subcontractors are calculated as 0.22% (22 basis points) of contract value, with a minimum fee of \$50 and a maximum fee of \$5,000. Fees to Subcontractors' sub-subcontractors and suppliers are a fixed fee of \$100 per sub-subcontractor or supplier contract.
- Turner Accelerated Payment Program - The attached KENTUCKY Rider - Accelerated Payment Program amends and supplements your Agreement with Turner and provides you the opportunity to enroll in the Program through Textura CPM and receive accelerated payments from Turner on your invoices. Formal enrollment into the Program can then be accomplished via the Textura CPM system. Additional information and Program benefits are included in the attached Turner Accelerated Payment Program summary. You may be contacted by a representative from Turner or Textura who can provide additional information on the Program

**Attachment "A"**  
**ADDITIONAL PROVISIONS**

and answer questions you may have or you may call Textura at 1-866-TEXTURA (839-8872) with any questions.

- **OSHA 30 Hour Certification:** All subcontractors must have completed an OSHA 30 hour class. One person must be certified for all contracts under \$5M, and two people must be certified for contracts over \$5M. The 30 hour certified person(s) must be on-site 100% of the time. This OSHA 30 hour certification must be updated through Turner's 1.5 hour Safety Update Training every two years through Turner University.
- **Stormwater Compliance:** If this project is required to obtain an NPDES permit per the EPA, all subcontractors working on the site will be required to attend the Turner Stormwater Subcontractor Orientation and Pre-Plan meeting prior to beginning work, and weekly coordination meetings. Furthermore, Subcontractors involved in earth moving/disturbing activities (excavation, foundation or utility trenching/excavation, grading, landscaping, paving, on site batch plant) or those responsible for installing or maintaining BMP's will be required to take the online Turner Stormwater Subcontractor Short Course Intro into Erosion and Sediment Control prior to attending the preconstruction meeting. The person or persons taking this online course must have a regular presence on the project. All subcontractors must comply with the requirements of the Stormwater Permit.
- **Asbestos/ Lead Awareness:** **N/A**
- **Waste Tracking Requirements:** Subcontractor who includes removal of waste from the project site ("dumpsters") as part of their scope of work, will submit all waste data using TurnerTracker account (monthly cost paid by subcontractor or their waste hauler). Data must be entered into the Online Waste Tracking system by the fifth (5th) day of the month following the invoice period. Subcontractor shall make every effort to maximize percentage of material recycled.

All Subcontractors shall comply with the project Construction Waste Plan. This may include sorting your construction waste and placing it in appropriate dumpsters (either co-mingled or site-sorted) per the project CWP. All subcontractors are required to recycle to the maximum extent possible per the terms of the Subcontract Agreement

- **MBE/WBE participation:** Refer to MBE/WBE Participation Goals document for details regarding the project inclusion program and/or goals for the University of Kentucky.
- **No-Idling Standard:** Trade partner agrees to comply with Turner's No-Idling Standard. All trade partner vehicles within the project site fence (including, but not limited to, transportation and construction equipment, delivery trucks and personal or company trucks) shall not idle. The only allowable exceptions to the standard are as follows:
  1. Ambient air temperature exceeds 85°F or falls below 32°F (or as defined by local or regional temperature limits, whichever is stricter)
  2. Engine idling is required for the function of auxiliary equipment (i.e. cranes, concrete pumps, etc.)
- **Additional Subcontract Agreement Article Pertaining to Harassment**

This agreement includes and acknowledges the addition of the following Article as if inserted immediately following the Ethics and Compliance Article of this agreement as follows:

**New Article XV: Harassment**

It is the goal of Contractor to promote a work environment at the Project that is free from harassment of any kind. Contractor has ZERO TOLERANCE for harassment, including harassment on the basis of race, sex, gender, gender identity, gender expression, transgender status, sexual orientation, pregnancy, childbirth and other pregnancy-related conditions, color, national origin, ancestry, age, religious creed, citizenship, marital status (including registered domestic partners), parental status, physical disability, mental disability, medical condition, genetic information, military or veteran status (including protected veteran status), or any other characteristic or status protected by law. Subcontractor agrees to be bound by the Policy Statement on Harassment referenced in Article XXII below, and any violation or suspected violation of such policy by Subcontractor or any of its officers, agents, servants, employees, subcontractors or suppliers shall be considered as Subcontractor's failure to perform its obligations under the terms and conditions of this Agreement. Such failure shall be considered adequate and justifiable grounds for Contractor to effectuate its rights and remedies under the provisions of Article XI of this Agreement. Subcontractor shall actively promote a harassment-free work environment among its officers, agents, servants, employees, subcontractors, and suppliers.

Attachment "A"  
ADDITIONAL PROVISIONS

**G. WORK EXCLUDED**

Refer to Attachment "B" – Scope of Work

**H. ALTERNATE PRICES**

Refer to Attachment "B" – Scope of Work for Description of Alternate

**I. ALLOWANCES**

Refer to Attachment "B" – Scope of Work for Description of Allowances. Contract Prices INCLUDES Allowances

**J. UNIT PRICES**

Refer to Attachment "B" – Scope of Work for Description of Unit Prices

**K. CONTRACT PRICE SUMMARY**

Base Bid Amount	\$
<u>Adjustments</u>	_____

<b>CONTRACT TOTAL</b>	<b>\$</b>
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**By execution of this Agreement, Subcontractor agrees that Subcontractor’s proposal, including all quantities, terms, and conditions, is Null and Void. This Subcontract Agreement details the terms of the Agreement, and shall be the primary reference point for clarifications of issues during course of project.**

END OF ADDITIONAL PROVISIONS

Attachments:

- Attachment B - Scope of Work for this Subcontract Agreement



Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

Alternates: **None**

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting on April 16, 2024 at 10:00 am in the Turner Field Office. All parties (prime and subcontractors) are required to attend in person. (ADD #3)**



Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_  
CITY STATE ZIP CODE FAX

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_



Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

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(Nine Digit Number)

BIDDER'S QUALIFICATIONS

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price
1 inch of Recycled Concrete #2s (Installed)	CY	
1 inch of 57s (Installed)	CY	
4" Thick Concrete walk, 8 Feet Wide, with 4" of subgrade	LF	
8' Tall Fencing (Installed)	LF	
20' Wide, 6" DGA, 4" base course asphalt road	LF	

Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering and Submittals				\$	\$
2	SWPPP Provisions				\$	\$
3	Site Fencing (Including Gates)				\$	\$
4	2 Lane Heavy Duty Drive				\$	\$
5	Temporary Side Walk				\$	\$
6	Laydown Area Install				\$	\$
7	Trailer Area Install				\$	\$
8	Photographic Documentation				\$	\$
9	Sanitary Tie In and Install				\$	\$
10	Water Tie In and Install				\$	\$
11	Electric Tie In and Install				\$	\$
12	Internet Tie In and Install				\$	\$
Please list and breakdown below any work that has not been listed above						
13					\$	\$
14					\$	\$
15					\$	\$
16					\$	\$
17					\$	\$
18	Management				\$	\$
19	Safety and Housekeeping				\$	\$
20	General Work Requirements				\$	\$
21	Overhead and Profit				\$	\$
<b>Allowances (to be included in bid amount)</b>						
1	Additional Stone Allowance				\$	\$ 20,000
2	Unforeseen Utility Relocation Allowance				\$	\$ 20,000
3	Additional Utility "Potholing"				\$	\$ 20,000
4	Trailer and Laydown Monitoring Allowance				\$	\$ 55,000 (ADD #3)
<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)						\$
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)						\$

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

SCOPE OF WORK

<b>A.</b>	<b>GENERAL</b>
1.	Provide labor, material, equipment, and all else necessary to furnish and install complete the TC-012 Work as required by the contract documents and as outlined below
2.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
3.	The intention is to have the successful Subcontractor perform all the TC-012 related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
4.	Detail references are included for convenience, but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
5.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."
<b>B.</b>	<b>DOCUMENTS</b>
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample 3A Page</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b> <ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-02 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment M – Waste Management Standard</li> <li>j. Attachment N – Turner Subcontractor Onboarding</li> <li>k. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b> <ul style="list-style-type: none"> <li>a. SK-001 – BMP Phasing Plan</li> <li>b. SK-002 – Phase Site Logistics Plan</li> <li>c. SK-003 – Estimated Rock Surface</li> <li>d. SK-004 – Trailer and Laydown Setup</li> <li>e. SK-005 – Tower Crane Reinforcement (ADD #3)</li> <li>f. SK-006 – BP-02 Site Storm Installation Plan (ADD #3)</li> </ul>
6.	<b>Specifications</b>



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

	The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below. <ul style="list-style-type: none"> <li>a. <b>312000 – Earth Moving</b></li> <li>b. <b>312001 – SWPPP</b></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature, and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed
2.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
3.	Include protection all adjacent structures during performance of this work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work
4.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
5.	Subcontractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Subcontractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents above
6.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
7.	<b>Verify layout</b> provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor.
8.	All Subcontractors must be <b>licensed</b> as required by local, State, or Federal jurisdiction required for work of this trade in this project location
9.	This Subcontractor will comply with Turner's corporate <b>safety policy</b> and comply with Site Specific Safety Plan that will include but is not limited to 100% tie-off above 6 feet, 100% Safety Glasses, High Visibility Vests or High Vis style T-Shirts with reflective strips, 100% glove policy, Ladders Last Policy and Nothing Hits the Ground. If you are unfamiliar with any of these policies please ask to see the policy prior to submitting your bid. Failure to be familiar with these policies will not exclude you from complying with them.
10.	Refer to <b>Project General Work Requirements</b> in volume one of the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors and they shall include those costs in their respective total lump sum bid price.
11.	This contractor is to provide <b>PHOTOGRAPHIC DOCUMENTATION</b> as outlined in specification 01 3233. This includes the following: <ul style="list-style-type: none"> <li>a. Provide a <b>preconstruction as-built</b> survey of all existing conditions prior to the commencement of any construction activities. Survey should show existing conditions of all building facades, access routes, window openings, entrances, landscaping, pavement, retaining walls, stairs, roof, etc. This is to include properties and structures outside of, but adjacent to the construction limits. Survey is to include photographs, narrative and video. Submit survey to Construction Manager for project records.</li> <li>b. Provide <del>four (4) aerial photos per month for the duration of this work</del> <b>one aerial photo at the start of work showing the existing conditions and one aerial photos at the conclusion of work showing the final condition. (ADD #3)</b></li> </ul>
12.	<del>Furnish (2) cameras with solar panels via Earthcam for use as site security monitoring. Mounting locations to be coordinated with Construction Manager. Include all installation costs. Costs for recording services will be by others. (ADD #3)</del>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

13.	<p>This contractor to provide all <b>erosion control</b> measures as needed. This includes providing, installing, maintaining, and replacing when needed inlet protection, wattles, silt fence, construction entrances, etc. All site BMPs shall be installed prior to the commencement of any construction activities unless directed otherwise by the CM. This Trade Contractor must perform all erosion control work required by all local, state, and federal regulations including <b>Storm Water Pollution Prevention Plan (SWPPP)</b> requirements. Construction entrances shall be level with adjacent ground. Any asphalt and earth removal required for the installation of any stone construction entrances is this contractor's responsibility. Include saw cutting of all asphalt to be removed at construction entrances. This contractor is to perform weekly maintenance of all SWPPP BMPs; and shall conduct inspections, repairs, and documentation to Turner after all rain events greater than one-quarter inch of rain. Utilize Turner reporting form and file all completed reports with construction manager within one day after the rain event. The management of all site erosion control and the site SWPPP is this contractor's responsibility for the duration of their work.</p> <p style="padding-left: 20px;">a. This contractor must meet all requirements outlined in specification 31 2001 including all certifications, trainings, permits, etc.</p>
14.	<p>This contractor to include \$2,000 for additional site dust control to be used at the discretion of the CM.</p>
15.	<p>This contractor shall include all work shown on SK-004</p> <p style="padding-left: 20px;">a. Contractor shall provide, maintain for the duration of their contract, and leave after their contract is complete <b>chain link fencing</b> for the entire perimeter shown.</p> <p style="padding-left: 40px;">i. Fencing shall be 8' tall with screening the full height except for the gates.</p> <p style="padding-left: 40px;">ii. Fencing shall have LED lights every 8', shining down, that trigger with the sunset. Lights shall not be battery powered. Contractor to include all costs with tying these lights into a power source. This source to be coordinated with the CM and UK.</p> <p style="padding-left: 40px;">iii. Contractor shall include all gates as shown. Each gate shall have a combination lock similar to Master Lock M176XDLHCCSEN associated. Locks to be turned over to the CM immediately upon fence installation.</p> <p style="padding-left: 40px;">iv. Contractor shall include an Automatic Gate Opener for the Gate #10 with keypad access. Assume this gate is 30' wide and full height of the fence. This gate shall be a rolling gate, not a swinging gate. This gate shall have an auto close feature with a programmable timer.</p> <p style="padding-left: 40px;">v. Fence post to be driven into the ground, except at gate locations. Contractor shall have utilities marked prior to beginning fence installation. Any utilities that are close to a post installation location shall be potholed to ensure utility is not struck by installation. All posts at gate locations shall be installed in concrete.</p> <p style="padding-left: 20px;">b. Contractor shall provide and maintain for the duration of their contract <b>trailer lots and a laydown area</b></p> <p style="padding-left: 40px;">i. Assume <b>Trailer Lots</b> shown shall consist of filter fabric laid on grass, 2" of #2 stone, and 4" of compacted DGA. There are utilities in this area. Contractor shall have all utilities marked prior to beginning work. Contractor shall turn over plan to the CM for coordination <del>prior to commencing with undercut</del>. Contractor to maintain grading to existing catch basins (ADD #3)</p> <p style="padding-left: 40px;">ii. Assume <b>Laydown Area</b> shown shall consist of geogrid laid on grass, 4" of #2 stone, and 4" of compacted DGA. There are utilities in this area. Contractor shall have all utilities marked prior to beginning work. Contractor shall turn over plan to the CM for coordination <del>prior to commencing with undercut</del>. Contractor to maintain grading to existing catch basins (ADD #3)</p> <p style="padding-left: 40px;">iii. Assume 90,000 sqft for the Trailer Lots and 110,000 sqft for the Laydown Area for bidding purposes. Areas to be coordinated with the CM.</p> <p style="padding-left: 40px;">iv. Contractor shall provide protection for existing light poles to remain inside of the fenced in area. This protection shall consist of orange snow fencing and stakes in a 3 foot radius from the center of the pole.</p> <p style="padding-left: 20px;">c. Contractor shall provide and maintain for the duration of their contract an <b>Entry/Exit Road</b> at Gate #10 off of Complex Dr.</p> <p style="padding-left: 40px;">i. Road will consist of <del>6" 4"</del> DGA, 4" 6" base course asphalt. Assume road to be 20' wide and <del>230' 450'</del> long. (ADD #3)</p> <p style="padding-left: 40px;">ii. Include all required layout.</p>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

	<ul style="list-style-type: none"> <li><del>iii. Include undercutting of soil so that roadway is flush with existing road and sidewalks. There are utilities in this area. Contractor shall have all utilities marked prior to beginning work. Contractor shall turn over plan to the CM for coordination prior to commencing with undercut. Undercut has been completed by contractor on the new dormitory project. This contractor is responsible to remove any temporary grading around the existing hardscapes in order for the asphalt to be installed flush with the adjacent hardscapes. (ADD #3)</del></li> <li><del>iv. Include installing steel plates over existing utilities, but under roadway. (ADD #3)</del></li> <li>v. Final road elevation to be a straight slope flush with existing asphalt at curb cut locations.</li> <li>vi. Road cross slope (.25" per foot) to drain toward existing yard drains and swells.</li> <li>vii. Include installing filter fabric/dandy bags over nearby existing yard drains <b>within the trailer and laydown site and along Complex Drive as needed (ADD #3).</b></li> <li>viii. Road to be installed to miss existing light poles.</li> <li>ix. Stone and DGA to be installed upon mobilization. Include re-grading and compacting as required prior to asphalt installation.</li> <li>x. Include cutting down and reworking existing curb for entry/exit onto Complex Dr.</li> <li>d. Contractor shall provide and maintain for the duration of their contract a <b>temporary sidewalk</b> around the south wing of the University Flats building as shown on SK-004.             <ul style="list-style-type: none"> <li>i. Sidewalk shall be ADA compliant and flush with adjoining hardscapes. Undercut as necessary to achieve this.</li> <li>ii. Sidewalk shall be 8 feet wide. Assume 4" of subgrade and 4" of concrete.</li> </ul> </li> </ul>
16.	<p>Contractor to provide the following <b>site signage</b>:</p> <ul style="list-style-type: none"> <li>a. Signage at each gate/entrance including gate number and contact information</li> <li>b. (6) "Site Maps" with "You Are Here" stars. Assume these are 2' x 3'.</li> <li>c. (4) "Sidewalk Closed"</li> <li>d. Signage shall meet all federal, state, KYTC signage standards</li> <li>e. This contractor to include \$15,000 for miscellaneous site signage and reproduction services and 60 hours of labor for additional signage and maintenance.</li> </ul>
17.	<p>This contractor is to include providing <b>hookup locations</b> for the future trailer complex utilities. This includes, but is not limited to: internet, water, sewer, and electric.</p> <ul style="list-style-type: none"> <li>a. Contractor is to assume <b>water and sewer</b> shall be installed per SK-004/MU-100. Contractor shall make final hookups for both water and sewer to Turner Trailer and Restroom Trailer.             <ul style="list-style-type: none"> <li>i. Include metering at each service location.</li> </ul> </li> <li>b. Contractor shall assume fiber line for <b>internet</b> is to run out of University Flats. Assume run is 1000ft and will be routed from University Flats closet to the Turner Trailer. Assume that there will need to be an outage associated with this work. Location and routes to be coordinated with the CM. Contractor shall assist internet provider in final hookups of Turner trailer as needed.</li> <li>c. Contractor shall assume <b>electric</b> will be run from University Flats. Contractor shall include running wire and making final hookups to both the Turner Trailer and Restroom Trailer.             <ul style="list-style-type: none"> <li>i. Contractor will need to provide a 480V to 120/208V step down transformer with a 1000A exterior weatherproof rated panel and disconnect switch. Wire from University Flats to inside the Trailer Area may be run overhead as long as it is supported in accordance with all applicable electrical codes and university standards.</li> <li>ii. Assume that the transformer will be installed on a concrete pad provided by this contractor and the panel will be mounted inside a secured, lockable plywood enclosure. Both the transformer and panel will be located within 50 feet of Gate #11 (see SK-004)</li> <li>iii. Panel shall have ten (10) 100 amp breakers.</li> <li>iv. Include metering at each service location.</li> </ul> </li> </ul>
18.	<p>This contractor is to provide 1,500 sqft of wood decking around the Restroom and Turner trailers.</p> <ul style="list-style-type: none"> <li>a. Deck height shall such that finished deck height is flush with the doors into both the Turner Trailer and Restroom Trailer</li> <li>b. Deck shall be covered with roof that sheds rain past the footprint of the deck. Roofing material shall be weatherproof. Bare treated wood is <b>NOT</b> allowed.             <ul style="list-style-type: none"> <li>i. Contractor shall install lights under the roofing every 5 feet. These lights to be tied in to the fence lighting and turn on/off with the sunset/sunrise.</li> </ul> </li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

	c. Deck shall have four (4) stairs with railings for entry/exit to the trailers. Locations to be coordinated with construction manager. A boot scrubber shall be mounted at the top of each stair.
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D.	EXCLUSIONS
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond

E.	ALLOWANCES
	<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>
1	Additional Stone Allowance \$20,000
2	Unforeseen Utility Relocation Allowance \$20,000
3	Additional Utility "Potholing" \$20,000
4	Trailer and Laydown Monitoring Allowance \$55,000
5	

F.	SCHEDULE
1.	<p>Schedule information is included within the bid manual (<b>Attachment G</b>) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.</p> <p><b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b></p> <p>It is <b>absolutely critical</b> that the work of this contract be completed by the dates defined. The intention is that the Subcontractor must provide sufficient labor, equipment, overtime, supervision, etc. to overcome weather delays.</p>

G.	ALTERNATES
1.	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None



Attachment "B"  
SCOPE OF WORK  
TC-012 Trailer and Laydown Area Setup

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

**The apparent low bidders will be required to complete and submit to the University the following information by twelve o'clock (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.**

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**

MATERIALS AND EQUIPMENT

BRAND OR MANUFACTURER


**Attachment "B"**  
**SCOPE OF WORK**  
**TC-012 Trailer and Laydown Area Setup**

**IDENTIFICATION OF DIVERSE BUSINESS ENTERPRISE SUBCONTRACTORS AND MATERIAL SUPPLIERS**

Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled.

MBE, WBE, Veterans, Disable Veterans and Disabled make up Diverse Business Enterprises, DBE.

**Participation of DBE owned Contractors and businesses.**

The University of Kentucky encourages and supports the participation Diverse Business Enterprises. Please list Subcontractors and Material Suppliers according to following Ethnic Vendor List or if they are a Woman Owned Business:

- Asian
- Black/African American
- Hispanic or Latino
- Native American Native Hawaiian/Pacific Islander
- White
- Other

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

Alternates: **None**

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_

List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting on April 17, 2024 at 2:00 pm in the Turner Field Office. All parties (prime and subcontractors) are required to attend in person. (ADD #3)**

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

BUSINESS CLASSIFICATION

Please complete this form which is necessary for the University of Kentucky vendor database.  
Mark only one classification. Refer to "Definitions" for assistance in determining correct classification.

- (01)\_\_\_ Small Business  
(02)\_\_\_ Large Business  
(03)\_\_\_ Disadvantaged Small Business  
(04)\_\_\_ Disadvantaged Large Business  
(05)\_\_\_ Woman-Owned Small Business  
(06)\_\_\_ Woman-Owned Large Business  
(07)\_\_\_ Disadvantaged Woman-Owned Small Business  
(08)\_\_\_ Disadvantaged Woman-Owned Large Business  
(09)\_\_\_ Other

**DEFINITIONS**

- (01) **SMALL BUSINESS:** A business concern that is organized for profit, is independently owned and operated, is not dominant in the field of operations in which it is bidding, and meets the size standards as prescribed in the Code of Federal Regulations, Title 13, Part 121. Consult your local or district Small Business Administration (SBA) office if further clarification is needed.
- (02) **LARGE BUSINESS:** A business concern that exceeds the small business size code standards established by SBA.
- (03) **DISADVANTAGED SMALL BUSINESS:** A business concern (a) that is at least 51 percent owned by one or more socially and economically disadvantaged individuals (as defined below), or a publicly owned business, having at least 51 percent of its stock owned by one or more socially and economically disadvantaged individuals; and (b) has its management and daily business operations controlled by one or more such individuals. Socially and economically disadvantaged individuals include: Asian, Black/African American, Hispanic or Latino, Native American, Native Hawaiian/Pacific Islander, Women, Disabled, Veteran and Disabled Veteran and other minorities or individuals found to be disadvantaged by the SBA.
- (04) **DISADVANTAGED LARGE BUSINESS:** A concern that meets the definition of socially and economically disadvantaged individuals as defined above, but which is not a small business by the SBA's size standards.
- (05) **WOMAN-OWNED SMALL BUSINESS:** A small business that is at least 51 percent owned by a woman or women who also control and operate it. "Control" in this context means exercising the power to make policy decisions. "Operate" means actively involved in the day to day management.
- (06) **WOMAN-OWNED LARGE BUSINESS:** A concern that meets the definition of woman owned and operated, but which is not a small business by the SBA's standards.
- (07) **DISADVANTAGED, WOMAN-OWNED SMALL BUSINESS:** A concern that meets the definition of both (03) and (05) above.
- (08) **DISADVANTAGED, WOMAN OWNED LARGE BUSINESS:** A concern that meets the definition of both (04) and (06) above.
- (09) **OTHER:** A concern that does not meet any of the above definitions.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

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(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

UNIT PRICES

NOTE: Unit Prices shall include the furnishing of all labor, materials, supplies and services and shall include all items of cost, overhead and profit for the Contractor and any subcontractor involved, and shall be used uniformly without modifications for either additions or deductions. The Unit Prices as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Unit Prices with the bid.*

Material	Unit (LF, SF, EA, etc.)	Unit Price

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering and Submittals				\$	\$
2	BIM Coordination				\$	\$
3	Demolition Work				\$	\$
4	Site Water Installation				\$	\$
5	Site Fire Protection Piping				\$	\$
6	Site Mechanical Piping				\$	\$
7	Excavation and Backfill			CY	\$	\$
8	Rock Removal				\$	\$
9	Shoring				\$	\$
10	Temporary Site Plumbing				\$	\$
11	Underslab Plumbing				\$	\$
12	Site Mechanical Piping				\$	\$
Please list and breakdown below any work that has not been listed above						
14					\$	\$
15					\$	\$
16					\$	\$
17					\$	\$
18					\$	\$
19	Management				\$	\$
20	Safety and Housekeeping				\$	\$
21	General Requirements				\$	\$
22	Overhead and Profit				\$	\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$ 3,000
2	Unforeseen Demo and Abatement					\$ 30,000
3	Additional Utility Locate Allowance					\$ 7,500 (ADD #3)
4						\$
5						\$
<b>TOTAL BID AMOUNT</b> (This amount should match the Lump Sum listed on Form of Proposal)						\$
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)						\$



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

SCOPE OF WORK

A.	GENERAL
1.	Provide labor, material, equipment, and all else necessary to furnish and install complete the TC-013 Work as required by the contract documents and as outlined below
2.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
3.	The intention is to have the successful Subcontractor perform all the TC-013 related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
4.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
5.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample 3A Page</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-02 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment M – Waste Management Standard</li> <li>j. Attachment N – Turner Subcontractor Onboarding</li> <li>k. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – BMP Phasing Plan</li> <li>b. SK-002 – Phase Site Logistics Plan</li> <li>c. SK-003 – Estimated Rock Surface</li> <li>d. SK-004 – Trailer and Laydown Setup</li> <li>e. SK-005 – Tower Crane Reinforcement (ADD #3)</li> <li>f. SK-006 – BP-02 Site Storm Installation Plan (ADD #3)</li> </ul>
6.	<b>Specifications</b>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <b>Section 02 4116 – Structure Demolition</b></li> <li>b. <b>Section 03 0300 – Structural Excavation and Backfill</b></li> <li>c. <b>Section 03 3000 – Cast-in-Place Concrete</b></li> <li>d. <b>Section 20 0100 – General Provisions – Mechanical</b></li> <li>e. <b>Section 20 0200 – Scope of the Mechanical Work</b></li> <li>f. <b>Section 20 0300 – Shop Drawings, Descriptive Literature, Maintenance Manuals, Parts Lists, Special Keys and Tools</b></li> <li>g. <b>Section 20 0400 – Demolition and Salvage</b></li> <li>h. <b>Section 20 1100 – Sleeving, Cutting, Patching and Repairing</b></li> <li>i. <b>Section 20 1200 – Excavation, Trenching, Backfilling &amp; Grading</b></li> <li>j. <b>Section 20 1300 – Pipe, Pipe Fittings, and Pipe Support</b></li> <li>k. <b>Section 20 1310 – Welding</b></li> <li>l. <b>Section 20 2100 – Valves and Cocks</b></li> <li>m. <b>Section 20 2200 – Insulation</b></li> <li>n. <b>Section 20 2400 – Identifications, Tags, Charts, Etc.</b></li> <li>o. <b>Section 20 2500 – Hangers, Clamps, Attachments, Etc.</b></li> <li>p. <b>Section 22 1113 – Facility Water Distribution Piping</b></li> <li>q. <b>Section 22 1313 – Facility Sanitary Sewers</b></li> <li>r. <b>Section 31 2000 – Earth Moving</b></li> <li>s. <b>Section 31 2001 – Storm Water Pollution Prevention Plan</b></li> <li>t. <b>Section 31 2319 – Dewatering</b></li> <li><del>u. <b>Section 31 3116 – Termite Control (ADD #3)</b></del></li> <li><del>v. <b>Section 31 6813 – Rock Anchors (ADD #3)</b></del></li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature, and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

<b>C.</b>	<b>SPECIFIC SCOPE ITEMS</b>
1.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed.
2.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
3.	Include protection all adjacent structures during performance of this work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work.
4.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
5.	Subcontractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Subcontractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents above.
6.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
7.	Verify layout provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor.
8.	All Subcontractors must be licensed as required by local, State, or Federal jurisdiction required for work of this trade in this project location.
9.	This Subcontractor will comply with <b>Turner's corporate safety policy</b> contained in Attachment C of this Scope of Work.

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

10.	Refer to Project "General Work Requirements" in volume one of the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors, and they shall include those costs in their respective total lump sum bid price.
11.	This contractor is required for their full-time superintendent to be onsite at all times to assist in the coordination of the project. This person is to have no labor responsibilities onsite.
12.	All unloading, distribution, staging, hoisting, rigging, scaffolding, lifts, platforms, scissor lifts, boom lifts, planking, guying, sheeting, shoring, dewatering, bracing transportation, access for material, equipment and personnel required to perform this work is included in this contract.
13.	This Subcontractor is responsible to repair any asphalt, roadway, curb/gutter, granite, and sidewalk outside the area of demolition that is damaged by this Contractor, their Subcontractors, or haulers.
14.	This contractor is to prepare and submit for review all plans and certifications, etc. required by the EPA, OSHA, Turner Construction policies, and all other governing bodies.
15.	Provide <b>street cleaning</b> as necessary, for work associated with this contract.
16.	This Trade Contractor shall be responsible to coordinate with established building layout, control points, and benchmarks.
17.	<p>Early site environmental protection will be provided by TC-008. TC-013 will be responsible to provide and maintain any BMPs within the work area due to damages or negligence by this scope of work. Reference project drawings and specifications for silt fence and silt trap details. Removal of silt fencing will be by others near project completion. Include adequate dust control required for the scope of work and assume all dust-producing activities must be performed "wet" in accordance with the infection control guidelines.</p> <p>a. This Trade Contractor must meet all requirements outlined in specification 31 2001 including all certifications, trainings, permits, etc.</p>
18.	<p>This Trade Contractor shall provide BIM coordination as detailed in <b>ATTACHMENT H</b>. This work includes but is not limited to the following:</p> <p>a. All systems installed under this scope of work including under slab.</p> <p>b. Site electric installations performed by TC-009.</p> <p>i. Final locations to be provided by TC-009.</p> <p>c. Sanitary and storm installations performed by TC-014.</p> <p>i. Include remaining storm systems within Contract Documents.</p> <p>d. Model "existing electric" (vaults, duct banks, switches, etc.).</p>
19.	<p>Provide all hauling and/or dumpsters required for all site demolition and/or mass excavation activities as needed.</p> <p>a. See section <b>01 7419 Construction Waste Management and Disposal</b> for additional information.</p>
20.	<p>This Trade Contractor shall provide <b>SITE DEMOLITION</b> as shown on Contract Documents and in accordance with section 02 4116 and division 01. This work includes but is not limited to the following:</p> <p>a. Trade Contractor is responsible for the removal of all existing utilities located within the limits of the project. Reference C200, MU-101, and MU-102 for known utilities that are to be demoed. If this Trade Contractor excavates an existing utility that is not called out to be demolished, contractor is to notify the Construction Manager immediately. Similarly, if this Trade Contractor exposes underground hazardous material, contractor is to notify the Construction Manager immediately for coordination of abatement of hazardous waste.</p> <p>i. Include demo of steam piping and tunnel per MU-101 and MU-102.</p> <p>1. This Trade Contractor to include FRP and waterproofing of existing vaults that are to remain once piping and utility tunnels are removed. Reference detail 6 on MU-302.</p> <p>2. Where the crooked vault steam tunnel is removed, backfill in compacted lifts with structural fill and cap with DGA.</p> <p>ii. TC-007 Demo &amp; Abatement contractor responsible for cut/cap of utilities 5' outside of existing building perimeters (Kelley Hall and Annex No. 5)</p> <p>iii. Coordinate with the Owner and Construction manager for any "make safe; necessary prior to utility demolition – assume all utilities are live.</p> <p>iv. Storm and sanitary system demolition by TC-014.</p> <p>v. Dilution pit demolition by TC-011.</p>

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

	vi. Electrical and LV demolition by TC-009.
21.	This Trade Contractor shall furnish and install all site utilities including excavation, shoring, backfill, thrust blocks, piping, hydrants, valves, controls, cleanouts, testing, metering, supports, etc. for a complete system related to this scope of work.
22.	This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>DOMESTIC WATER</b> service as shown on the Contract Documents and in accordance with section 22 1113 and C401. This work includes but is not limited to the following: <ul style="list-style-type: none"> <li>a. Include new domestic water vault and connection at Huguelet Drive.</li> <li>b. Provide chlorination as required for the domestic water system.</li> <li>c. Installation of water lines into the building should be held as tight to new areaway wall as possible. <ul style="list-style-type: none"> <li>i. Include watertight seals where piping enters the new building or vaults.</li> </ul> </li> <li>d. Trade Contractor to provide thrust blocks as required by code or Contract Documents.</li> <li>e. <b>Assume invert of incoming pipes on west side of building to be 993'. (ADD #3)</b></li> </ul>
23.	This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>FIRE PROTECTION</b> service as shown on the Contract Documents and in accordance with section 22 1113 and C401. This work includes but is not limited to the following: <ul style="list-style-type: none"> <li>a. Include all material and labor necessary for new hydrants and fire protection system.</li> <li>b. Installation of water lines into the building should be held as tight to new areaway wall as possible. <ul style="list-style-type: none"> <li>i. Include watertight seals where piping enters the new building or vaults.</li> </ul> </li> <li>c. <b>Assume invert of incoming pipes on west side of building to be 993'. (ADD #3)</b></li> </ul>
24.	This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>SITE MECHANICAL</b> system as shown on the Contract Documents and in accordance with Division 20, MU-201, and MU-202. This work includes but is not limited to the following: <ul style="list-style-type: none"> <li>a. This Trade Contractor is to include new valves, piping, anchors, seals, pumps, insulation, sleeves, etc. as shown on the Contract Documents. <ul style="list-style-type: none"> <li>i. Include watertight seals where piping enters the new building or vaults.</li> </ul> </li> <li>b. Include new insulation in vaults that remain and where new piping transitions to existing piping.</li> <li>c. This Trade Contractor is responsible to furnish and install forced main sump pump piping from vaults to storm structures as indicated on the Contract Documents. One discharge line will be routed across Huguelet Drive and will require coordination with the Owner for potential road closure. Include separate mobilizations to complete this work as grade is brought back up.</li> <li>d. Control conduits from vaults (new and existing electrical, chilled water, steam, etc.) to basement are included in this scope of work.</li> <li>e. Assume steam piping at south side of building to be installed below grade and not above-grade as indicated on the Contract Documents. Include 1,500 psi lean fill as backfill around temporary steam piping. Remove temporary piping and lean fill after new lines are energized.</li> <li>f. New chilled water vault structure will be installed by others. The intent is the structure is completely cast and backfilled prior to TC-013 installing any piping, valves, etc. within the structure. <ul style="list-style-type: none"> <li>i. Sleeves for the vault should be provided by TC-013 and installed by TC-015.</li> </ul> </li> <li>g. <b>Include 50 cubic yards of lean fill for protection of underground utilities to be used at the discretion of CM. (ADD #3)</b></li> </ul>
25.	This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>UNDERSLAB PLUMBING PIPING</b> system for under-slab building areas as shown on the Contract Documents and in accordance with 20 1300. This work includes but is not limited to the following: <ul style="list-style-type: none"> <li>a. All sanitary piping, cleanouts, floor drains, floor troughs, hub drains, trap primers, etc.</li> <li>b. Cap all new piping utilizing rubber caps. Extend a minimum of 24" above finished floor elevations and protect until SOG is poured.</li> <li>c. Coordinate with architectural drawings for correct wall layout and dimensions. Digital survey of all piping risers is encouraged so to fit within new (future) wall cavities. This contractor will be required to correct any incorrect installations.</li> <li>d. Coordinate with structural drawings for elevation clashes where piping may run near new footings and foundations to address pipe inverts and sleeve requirements. See S-301 for more details.</li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

	<ul style="list-style-type: none"> <li>e. This Contractor is to demonstrate successful quality testing (i.e. pressure test) of installed systems meeting all specifications and code requirements prior to backfill and cover. This contractor is to include any granular pipe fill around all new piping installations.</li> <li>f. TC-014 site excavation contractor will excavate existing subgrades to elevations shown on C300. TC-015 will install granular backfill under interior slab on grade areas as shown after concrete footing installations.             <ul style="list-style-type: none"> <li>i. This Contractor shall provide adequate protection of trap primer piping and stub-ups during slab pours to ensure the systems remain free of damage. Coordinate with other trades accordingly.</li> </ul> </li> <li>g. TC-014 will also install the exterior sanitary system. Coordinate the final location of the sanitary and rainwater connection points ahead of work starting within the building footprint.</li> </ul>
26.	<p>This Trade Contractor shall provide <b>EXCAVATION AND BACKFILL</b> as shown on Contract Documents and in accordance with section 31 2000 as it pertains to this scope of work. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. Exercise care to preserve material below and beyond the limits of excavation. Where excavation is carried out, through error, below indicated grade or beyond the lines of excavation, backfill to the indicated grade and compact with approved fill at no additional cost to the Owner, and at the direction of the Engineer or Geotechnical Consultant.</li> <li>b. Contractor shall dewater all excavations associated with this scope due to rainwater / water infiltration while on-site. Assume use of filters, dewatering bags, or other means to prevent pumping / discharging fine sediments onto surrounding properties or into storm sewers or streams.</li> <li>c. For the excavation and backfill work contained in this work scope -- backfill must be imported granular material. Include all <b>rock excavation and removal</b> for this scope of work. Refer to the project Geotechnical Report and SK-003 for estimated rock elevations and location. This work is inclusive of exploratory work specified in the General Work Requirements. Protect all underground work, including stub-ups to ensure work is intact at time of concrete placement. Backfill and compaction with suitable material to proper subgrade elevation is included in this Contract. Spoils are to be removed and stored off site and/or properly disposed of. At the conclusion of this work, the subgrade shall be re-graded to a level acceptable to the Construction Manager.</li> <li>d. This contractor is to provide temporary fencing around all open excavations.</li> <li>e. This contractor is to include any shoring, sheeting, bracing, trench boxes, etc. to safely complete the site plumbing scope of work while protecting adjacent structures and utilities. Any excavation deeper than 4'-0" will require an engineered shoring plan prior to excavation and shoring must be engineered and stamped by a Professional Engineer.</li> <li>f. All excavations shall be returned to match adjacent conditions, including concrete, asphalt, lawn, landscape.</li> </ul>
27.	<p>Provide all <b>testing</b> required to complete this scope of work per the Contract Documents and applicable codes.</p> <ul style="list-style-type: none"> <li>a. This scope includes all testing &amp; balancing associated with site plumbing work.</li> <li>b. All underground piping in this scope of work shall be tested and inspected prior to covering work.</li> <li>c. Provide testing and chlorination of new domestic water lines in preparation of tie-in to existing per the project specifications and owner requirements.</li> <li>d. Maintain and submit as a final record documentation reporting the results of all tests performed. Tests shall be categorized by the system and by the type of test performed. All testing documentation shall be submitted in a form acceptable to the Construction Manager and Architect/Engineer.</li> </ul>
28.	<p><b>Temporary site plumbing</b></p> <ul style="list-style-type: none"> <li>a. This contractor to include all pump around equipment and systems necessary to install the new sanitary, storm, and other systems. Coordinate connection with owner via outage process to minimize utility down time.</li> <li>b. Include temporary protection of all new and existing final at or above grade site water elements, including inlets, manholes, and pump stations.</li> <li>c. Provide and maintain functioning sump pumps in mechanical and electrical vaults for the duration of this scope of work including temporary power connections. Turn pumps over to CM at completion of this scope of work. Refer to MU-201 and MU-202 for vault locations.</li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

29.	<p>Include all necessary <b>project coordination</b> required to successfully complete the site plumbing work scope.</p> <ul style="list-style-type: none"> <li>a. It shall be the responsibility of this contractor to coordinate the installation of this work with the utility companies, other contractors working on the project and the engineer as needed to verify or determine size and routing of services being installed by this contractor.</li> <li>b. Coordinate connection/disconnection of permanent utilities with Owner to minimize downtime. This will include a fully detailed shutdown, testing and energize plan for work that is to be completed. Include any night shift work to limit impact to the operations. Plan will include a complete risk assessment and schedule with activities identified in 30-minute increments from shut down to re-energize. All outages are to be submitted via UK's outage request website.</li> <li>c. All work of this Trade Contract shall be properly coordinated with the LFCUG, UK, and any other authorities having jurisdiction inclusive of premium time for night work required by said authorities.</li> <li>d. Coordinate layout of all underground work part of this scope with drilled piers, concrete foundations, and temporary crane and buckhoist pads and foundation locations. <ul style="list-style-type: none"> <li>i. This TC to provide TC-015 foundations contractor with all layout and sleeves for any penetrations that occur in foundation walls. This TC is to identify locations from grid lines and elevations prior to rebar shop drawings being submitted so that TC-015 foundation contractor can incorporate into their shop drawings.</li> <li>ii. Coordinate foundation/wall penetrations with concrete trade contractor. Do not penetrate the waterproofing system without notification to the Construction Manager so waterproofing contractor can be onsite to seal the penetrations.</li> <li>iii. This TC to include installation of all sleeves that occur within or below foundation footings. Coordinate with TC-015 foundations contractor for installation. Reference Detail B &amp; C on S-301. Where sleeves or piping occurs below foundations as defined on detail A/S-301, this TC to coordinate installation with TC-015. Additional comeback work may be required to install and connect these sleeves to new piping that has already been installed.</li> </ul> </li> </ul>
30.	Trade Contractor shall furnish and install thrust blocks as needed by code or the Contract Documents.
31.	Cap any piping noted as abandoned as it is uncovered by the site excavation contractor.
32.	Contractor shall verify all elevations of structures and piping during and after installation. Provide as-built drawings generated by a licensed surveyor documenting X, Y, Z coordinates of structures, invert elevations of all pipe and elevations of bottom of structures / castings (site sanitary and storm by others).
33.	All permit, tap fees, and costs associated with connecting to and from existing utilities is the responsibility of TC-013. Include any sanitizing, disinfection, and pigging of water lines.
34.	Trade Contractor shall furnish and install utility service markers as required by the Contract Documents.

D.	EXCLUSIONS
	The Scope of Work shall exclude the following:
1	Payment & Performance Bond
2	Demolition of any trees
3	Cutting and make safe building electric and communications

E.	ALLOWANCES	
<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>		
1	Document Control Server Allowance	\$3,000
2	Unforeseen Demo and Abatement Allowance	\$30,000
3	<b>Additional Utility Locate Allowance</b>	<b>\$7,500 (ADD #3)</b>

Attachment "B"  
SCOPE OF WORK  
TC-013 – Site Plumbing

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F.	SCHEDULE
<p>Schedule information is included within the bid manual (<b>Attachment G</b>) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.</p> <p><b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b></p> <p>It is <b>absolutely critical</b> that the work of this contract be completed by the dates defined. The intention is that the Subcontractor must provide sufficient labor, equipment, overtime, supervision, etc. to overcome weather delays.</p>	

G.	ALTERNATES
<p>The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.</p>	
ALT.1	None







**Attachment "B"**  
**SCOPE OF WORK**  
**TC-013 – Site Plumbing**

**IDENTIFICATION OF DIVERSE BUSINESS ENTERPRISE SUBCONTRACTORS AND MATERIAL SUPPLIERS**

Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled.

MBE, WBE, Veterans, Disable Veterans and Disabled make up Diverse Business Enterprises, DBE.

**Participation of DBE owned Contractors and businesses.**

The University of Kentucky encourages and supports the participation Diverse Business Enterprises. Please list Subcontractors and Material Suppliers according to following Ethnic Vendor List or if they are a Woman Owned Business:

- Asian
- Black/African American
- Hispanic or Latino
- Native American Native Hawaiian/Pacific Islander
- White
- Other

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-014 – Site Excavation

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: [REDACTED]

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: **CCK-**  
BID OPENING DATE: **January 1, 2015**  
TIME **3:00 P.M. E.D.T.**

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor’s operations. The Contractor’s failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

Alternates: **None**

SUPERINTENDENT

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent’s qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent’s Name

**The apparent low bidder is requested to attend a post bid meeting on April 15, 2024 at 10:00 am in the Turner Field Office. All parties (prime and subcontractors) are required to attend in person. (ADD #3)**

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_



Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

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(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.





Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering and Submittals				\$	\$
2	Site Demolition			CY	\$	\$
3	Temporary Construction (Roadway)			LF	\$	\$
4	Site Sanitary Installation			LF	\$	\$
5	Site Storm Installation			LF	\$	\$
6	Shoring / Retention			CY	\$	\$
7	Mass Excavation / Grading			CY	\$	\$
8	Demolition and Site Clearing			CY	\$	\$
9	Rock Removal				\$	\$
10	Dewatering				\$	\$
11	Waterproofing and Drainage				\$	\$
12	Backfilling Building Pad and Foundation Walls				\$	\$
Please list and breakdown below any work that has not been listed above						
13					\$	\$
14					\$	\$
15					\$	\$
16					\$	\$
17	Management				\$	\$
18	Safety and Housekeeping				\$	\$
19	General Work Requirements				\$	\$
20	Overhead and Profit				\$	\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control Server Allowance					\$ 3,000
2	Additional Hydro Vacuum Allowance					\$ 20,000
3	Additional Stone Allowance					\$ 10,000
4	Additional Ductbank Temporary Support/Shoring Allowance					\$50,000 (ADD #3)
5						
<b>TOTAL BID AMOUNT</b>						\$
(This amount should match the Lump Sum listed on Form of Proposal)						
Cost of Payment & Performance Bond (DO NOT INCLUDE THIS COST IN BID AMOUNT)						\$

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

SCOPE OF WORK

A.	GENERAL
1.	Provide labor, material, equipment, and all else necessary to furnish and install complete the TC-014 Work as required by the contract documents and as outlined below
2.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
3.	The intention is to have the successful Subcontractor perform all the TC-014 related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
4.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
5.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-02 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment M – Waste Management Standard</li> <li>j. Attachment N – Turner Subcontractor Onboarding</li> <li>k. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – BMP Phasing Plan</li> <li>b. SK-002 – Phase Site Logistics Plan</li> <li>c. SK-003 – Estimated Rock Surface</li> <li>d. SK-004 – Trailer and Laydown Setup</li> <li>e. SK-005 – Tower Crane Reinforcement (ADD #3)</li> <li>f. SK-006 – BP-02 Site Storm Installation Plan (ADD #3)</li> </ul>
6.	<b>Specifications</b>

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

	<p>The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below.</p> <ul style="list-style-type: none"> <li>a. <del>Section 02 4116 – Structure Demolition (ADD #3)</del></li> <li>b. Section 03 0300 – Structural Excavation and Backfill</li> <li>c. Section 03 3000 – Cast-in-Place Concrete</li> <li>d. Section 07 1326 – Self Adhering Waterproofing</li> <li>e. Section 22 1313 – Facility Sanitary Sewers</li> <li>f. Section 31 2000 – Earth Moving</li> <li>g. Section 31 2001 – Storm Water Pollution Prevention Plan</li> <li>h. Section 31 2319 – Dewatering</li> <li>i. Section 31 3116 – Termite Control</li> <li>j. Section 33 0507.23 – Utility Auger Boring</li> <li>k. Section 33 4100 – Storm Utility Drainage Piping</li> </ul>
7.	Divisions 00 and 01 of the Specifications are general in nature, and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

C.	SPECIFIC SCOPE ITEMS
1.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed.
2.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
3.	Include protection all adjacent structures during performance of this work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work.
4.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
5.	Subcontractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Subcontractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents above.
6.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
7.	Verify layout provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor.
8.	All Subcontractors must be licensed as required by local, State, or Federal jurisdiction required for work of this trade in this project location.
9.	This Subcontractor will comply with <b>Turner's corporate safety policy</b> contained in Attachment C of this Scope of Work.
10.	<b>Refer to Project "General Work Requirements"</b> in volume one of the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors, and they shall include those costs in their respective total lump sum bid price.
11.	This contractor is required for their full-time superintendent to be onsite at all times to assist in the coordination of the project. This person is to have no labor responsibilities onsite.
12.	All unloading, distribution, staging, hoisting, rigging, scaffolding, lifts, platforms, scissor lifts, boom lifts, planking, guying, sheeting, shoring, dewatering, bracing transportation, access for material, equipment and personnel required to perform this work is included in this contract.
13.	This Subcontractor is responsible to repair any asphalt, roadway, curb/gutter, granite, and sidewalk outside the area of demolition that is damaged by this Contractor, their Subcontractors, or haulers.
14.	This contractor is to prepare and submit for review all plans and certifications, etc. required by the EPA, OSHA, Turner Construction policies, and all other governing bodies.

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

15.	Provide <b>street cleaning</b> as necessary, with a minimum of twice daily for the duration of this contract. Provide power sweeping and scrubbing of all paved areas, sidewalks, etc. soiled because of the work to the satisfaction of the Construction Manager. This Trade Contractor must clean all adjacent streets and maintain as if there were no construction site in the area. Street must be immediately swept and cleaned if there is excessive tracking as determined by the Construction Manager. All costs associated with street cleaning, inclusive of permits and fines will be the responsibility of this Trade Contract. Provide additional (40) hours to be used at the discretion of Construction Manager.
16.	Initial building control and benchmarks will be established by TC-006. TC-014 required to employ a registered surveyor to provide all engineering and layout to complete this scope of work. This Trade Contractor will also be responsible to maintain all survey layout within work area for the duration of the contract. a. Trade Contractor is also responsible for their own grade checks as work progresses. b. Provide additional (40) hours of survey to be used at the discretion of the Construction Manager.
17.	Early site environmental protection will be provided by TC-008. TC-014 will be responsible to provide and maintain any BMPs within the work area due to damages or negligence by this scope of work. Reference project drawings and specifications for silt fence and silt trap details. Removal of silt fencing will be by others near project completion. Include adequate dust control required for the scope of work and assume all dust-producing activities must be performed "wet" in accordance with the infection control guidelines. a. TC-014 shall provide and maintain the phase 2 BMPs per SK-001. This includes necessary silt fence and (2) construction roads from Huguélet Drive. i. TC-014 to maintain "clean" and functional construction entrances to the site for the duration of the scope of work. b. This Trade Contractor must meet all requirements outlined in specification 31 2001 including all certifications, trainings, permits, etc.
18.	Provide all hauling and/or dumpsters required for all site demolition and/or mass excavation activities as needed. a. See section <b>01 7419 Construction Waste Management and Disposal</b> for additional information.
19.	This Trade Contractor shall provide <b>SITE DEMOLITION</b> as shown on Contract Documents <del>and in accordance with section 02 4116 and division 04 (ADD #3)</del> . This work includes but is not limited to the following: a. All required cutting and removal of existing pavement, curbs, concrete, and associated base materials where required to perform the work. Properly dispose of all spoils off site. i. Include demo and removal of curb on east side of Dimock building. ii. Note the asphalt and curb within the tree canopy protection zone to remain per note 15 on C200. b. Trade Contractor to complete the storm and sanitary piping demolition as noted on C200, MU-101, and MU-102. i. Include all required patching of structures as indicated on the Contract Documents. c. Include demo of abandoned steam vault per note MD15 on MU-101 d. This Trade Contractor shall remove (12) tree stumps less than 24" in diameter within the building footprint as shown on SK-002.6.
20.	This Trade Contractor shall provide <b>temporary construction</b> work as shown on the project logistics plan and as noted below: a. Trade Contractor to provide an 8" of "3-inch minus" gravel for roadways / staging areas as shown on SK-002.6. This is approximately 1800 cubic yards that is to be installed as directed by the CM. i. Include time and materials to maintain gravel for duration of work scope. ii. Repair and/or refresh gravel for roadways / staging areas prior to steel erection. Include separate remobilization to complete this work. <del>b. Road plates at north side. (ADD #3)</del> c. Provide continuous vibration monitoring at 3 separate locations for the duration of this scope of work. Locations to be coordinated with Monitoring functions shall have capabilities to alert if a certain threshold is exceeded and be able to produce data for real time analysis. (ADD #3)
21.	This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>SITE SANITARY</b> system as shown on Contract Documents and in accordance with section 22 1313. This work includes but is not limited to the following:

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

	<ul style="list-style-type: none"> <li>a. All excavation, shoring, boring, sleeves, permits, manhole and piping installations.</li> <li>b. Provide temporary fencing around all open excavations.</li> <li>c. Include all necessary <b>tree protection</b> as required by the UK tree protection standards. Reference 'Attachment L'.             <ul style="list-style-type: none"> <li>i. This contractor to include \$5,000 for additional tree protection measures as directed by the CM. (ADD #3)</li> </ul> </li> <li>d. Include all pump around equipment and systems necessary to install the new sanitary systems. Coordinate connection with owner via outage process to minimize utility down time.             <ul style="list-style-type: none"> <li>i. Refer to note 8 on C500 for potential pump around needs.</li> </ul> </li> <li>e. All underground piping shall be tested and inspected prior to covering work.</li> <li>f. TC-014 shall project the sanitary piping 5' into the new building footprint for the final connections by others. Include plugging / capping of pipe ends where it enters the building.</li> <li>g. Coordinate layout of all underground work with concrete foundations, temporary crane pads and retention system layout.</li> <li>h. All work of this Trade Contract shall be properly coordinated with the LFCUG, UK, and any other authorities having jurisdiction inclusive of premium time for night work required by said authorities.             <ul style="list-style-type: none"> <li>i. Work along Veterans Drive shall be coordinated and installed to allow the flow of traffic (i.e. no more than 1 lane to be obstructed).</li> </ul> </li> <li>i. Trade Contractor shall include all necessary shoring / lagging for all bore pits, receiving pits, and open trench cuts as required to limit the amount of ground disturbed for the installation of this work.             <ul style="list-style-type: none"> <li>i. Include all patching and repairs to return surfaces to like conditions because of this work. Including but not limited to asphalt, sidewalks, landscaping, etc.</li> <li>ii. TC-014 to include any necessary backfill and compaction of bore pit locations to match adjacent grade.</li> <li>iii. Bring bottom of bore pit up to bottom of building footings and tower crane foundations adjacent with 4,000 psi concrete fill per Contract Drawings.</li> </ul> </li> </ul>
22.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment required to install a PARTIAL and functioning <b>SITE STORM</b> system as shown on Contract Documents and in accordance with section 33 4100, <del>C600, and C604</del> and SK-006 (ADD #3). This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. All water quality units and manholes to assist with early dewatering and foundation drain connections.</li> <li><del>b. North: WQ#1, 8A and Huguelet Drive curb inlet (A-2) and connection to existing curb inlet for dewatering. All piping in between. Include all necessary roadway outages and coordination for tie-ins. (ADD #3)</del></li> <li><del>c. South: WQ#2, 8B, all piping and structures as shown on the west side of the building stopping at corner..... All piping in between (ADD #3)</del></li> <li>d. Include separate mobilization to adjust and set final locations of inlets, curb inlets, rim elevations, and other items built into the final grading once foundation wall backfill, and lagging removal is completed.</li> <li>e. This contractor to include all piping, structures, etc. as noted on SK-006. (ADD #3)</li> </ul>
23.	<p>Provide a complete <b>retention system</b>, all shoring, and underpinning as shown on Contract Documents, project logistics plan, and as specified. Retention system to be designed and stamped by a professional engineer registered in the Commonwealth of Kentucky under this contract. Provide detailed plan with drawings for excavation and retention work.</p> <ul style="list-style-type: none"> <li>a. Provide retention system for all sides of the building footprint (see SK-002.5). The goal is to maintain a drive lane the full perimeter of the building while also avoiding the existing utilities in the area.</li> <li>b. When designing the retention system, special care shall be taken around the existing utilities in the area.             <ul style="list-style-type: none"> <li>i. Include coordination of potential bore / receive pit locations when designing retention system.</li> </ul> </li> <li>c. When designing the retention system, openings in the retention system for utility connections to the building shall be installed by this Trade Contractor. Reference Contract Documents for locations and quantities.             <ul style="list-style-type: none"> <li>i. Include an additional (10) 24" x 24" openings within the retention system to be directed by the Construction Manager.</li> </ul> </li> </ul>

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

	<ul style="list-style-type: none"> <li>d. The Trade Contractor's engineer shall validate needed systems to retain soil to prevent movement of any existing installations.</li> <li>e. Retention system should be designed to withstand construction loading (i.e. fully loaded concrete trucks, ground forces for crane outriggers, etc.)</li> <li>f. Retention shall also include cable guardrails with snow-fence for leading edge protection. Allow 4'-0" from outside of foundation wall or 18" from outside edge of footing (whichever is greater) to face of lagging.             <ul style="list-style-type: none"> <li>i. Cable guardrail design should adhere to Turner's corporate safety policy.                 <ul style="list-style-type: none"> <li>1. Include (12) openings in cable guardrail at top of earth retention for walk planks into building and stair towers into the garden level. Locations to be determined by Construction Manager. The openings may occur later once level 1 SOMD is installed.</li> </ul> </li> </ul> </li> <li>g. This Contractor to include removal of the retention system (including guardrail system) to a minimum 36" below finish grade in conjunction with foundation backfill. Maintain a leading-edge CAZ at all times; fence off when backfill operations are not being performed.             <ul style="list-style-type: none"> <li>i. Coordinate with other utilities or foundations that may require the lagging to be left at a lower elevation.</li> </ul> </li> <li>h. TC-014 to include retention for chilled water vault per MU-201. See S-702 and S-703 for sizing and details. Coordinate with foundations contractor for final location and sizing.</li> <li>i. TC-014 to include retention for south crane pad location per SK-002.5. Assume the pad to be 25' x 25' in size.</li> <li>j. Provide as-built drawing of final retention system to be turned over to the Owner and Construction Manager for future coordination.</li> </ul>
<p>24.</p>	<p>Complete all <b>earthwork and grading</b> as shown on contract documents and as specified in Division 31 Earthwork. Work includes but is not limited to clearing and grubbing, excavation, hauling, stockpiling (no on-site stockpiling), backfill (with suitable material), compaction, etc. as required by the Contract Documents. This work is inclusive of exploratory work specified in the General Work Requirements.</p> <ul style="list-style-type: none"> <li>a. This contractor is to include hydro-vacuum location of all existing utilities within the building pad and site areas prior to mass excavation. Contractor shall locate all individual utilities at three (3) locations along their expected run. The allowance in this work scope is for "extra" hydro-vacuum work at the discretion of the Construction Manager.</li> <li>b. Excavate the "main" building pad area to the subgrade elevations shown on drawing C300 and other civil drawings. Excavate rock to minimum elevation shown or if rock is lower, excavate subgrade to elevation indicated.             <ul style="list-style-type: none"> <li>i. Elevator pit rock removal included in this scope of work. Backfill with stone to surrounding elevations. Removal of loose stone by others.</li> </ul> </li> <li>c. Tower crane foundation excavation to be completed by this Trade Contractor and shall be coordinated with the retention system and concrete foundation contractor. <del>Foundation to be excavated to bear on rock (reference included Geotechnical report).</del> (ADD #3)             <ul style="list-style-type: none"> <li>i. Assume (2) 25' x 25' pads</li> <li>ii. South crane – top of pad is 981'. Assume pad thickness to be <del>5'-6" 6'-4"</del> (ADD #3)</li> <li>iii. North crane – top of pad is 997'. Assume pad thickness to be <del>5'-6" 6'-4"</del> (ADD #3)</li> </ul> </li> <li>d. Include "rough" trimming, shaping, and dressing of all slopes to an elevation of approximately 6" below finish grading for disturbed areas. Final grading of the project site at completion is not part of this work scope.</li> <li>e. Excavation of unsuitable material and disposal of all excavated material. Replace unsuitable materials in conjunction with the specifications and Geotechnical Report.</li> <li>f. Fill back under cut of rock and soil excavation with 4" of #2 stone and 2" of compacted #57 stone per C300.</li> <li>g. Trade Contractor to include rock removal as necessary to slope into basement area on south and west for equipment access. Assume 10% grade on all ramps. Reference SK-002.5</li> <li>h. Trade Contractor to ensure that wet soils can be hauled and disposed of. Rain days should not affect excavation activity of the main building pad.</li> <li>i. TC-014 to maintain emergency egress throughout earthwork and grading activities.</li> </ul>



Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

25.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment required to install a complete and functioning <b>DEWATERING</b> system as shown on Contract Documents and in accordance with section 31 2319.</p> <ol style="list-style-type: none"> <li>a. In addition, this contractor is to install and leave at the completion of this scope four (4) sump pits for the purposes of dewatering the building excavation. Provide and leave four (4) utility pumps with integral floats with a minimum flow rate of 60gpm at 20 ft of head. Dewatering should include all necessary rigid piping for the pits and means to move the water outside of the excavation. Maintain pumps during your site activities.             <ol style="list-style-type: none"> <li>i. Assume multiple rock trenches to be installed to create functional drainage system.</li> </ol> </li> <li>b. Locations of pits to be determined by the Construction Manager with coordination of TC-015 Foundations contractor.</li> <li>c. This Contractor shall also include (2) temporary pumps with integral floats for manholes 8A and 8B.</li> <li>d. TC-014 to include direct bury of electrical pathways for protection of temporary power that is to be coordinated with TC-009 Site Electric contractor.</li> <li>e. Assume use of filters, dewatering bags, or other means to prevent pumping / discharging fine sediments onto surrounding properties or into storm sewers or streams.</li> <li>f. Trade Contractor responsible to ensure dewatering system functional for duration of this scope of work. Include off hours maintenance as required.</li> </ol>
26.	<p>This contractor is to include all <b>waterproofing, protection board, insulation, sub-drainage, and backfill</b> of new foundation walls from building subgrade to SOG, or as detailed in the project details. Complete in accordance with Contract Documents and with Division 07 Thermal and Moisture Protection, and Division 33 Utilities.</p> <ol style="list-style-type: none"> <li>a. Include all foundation sub-drainage piping per Division 33. Coordinate pipe outlet to nearest catch basin, manhole, or as shown on the site utility (or other) drawings.</li> <li>b. Include backfill of exterior foundation walls with qualified and allowed backfill materials per the specifications. This contractor to include granular "drainage column" above the foundation drain with backfill to rough project grades. This work will include the installation of the geotextile filter fabric per specifications.             <ol style="list-style-type: none"> <li>i. Trade Contractor shall install foundation drainage and install single lift of waterproofing system prior to SOG and level 1 SOMD being placed.</li> <li>ii. Full height backfill of foundation walls cannot be completed until SOG and level 1 SOMD is placed. Include separate mobilization for full height backfill and waterproofing of foundation walls. Fire blankets will be provided by others to protect initial lift of waterproofing systems. This Trade Contractor should include removal of blankets and any other protective materials ahead of new installations.</li> </ol> </li> </ol>
27.	<p>Provide shoring, support and protection of existing communications vault and duct bank as needed to complete the site excavation scope of work. Hand excavation and temporary supports will be necessary during mass excavation to protect existing utilities.</p> <ol style="list-style-type: none"> <li>a. Reference survey drawings for approximate location and bottom elevations of duct bank.</li> <li>b. Shoring system to be designed and stamped by a professional engineer registered in the Commonwealth of Kentucky under this contract. Coordinate shoring with level 1 structural steel layout. <b>Temporary support and shoring system shall be submitted for review by project Engineer of Record (ADD #3).</b></li> <li>c. <b>Extreme care and caution</b> should be taken near this area during excavation and all work around the utilities should be coordinated with the Construction Manager and Owner.</li> <li>d. <b>Include \$10,000 allowance for third party review by a structural engineer firm of Turner's choosing to perform a 3<sup>rd</sup> party safety verification of this contractor's temporary support and shoring plan (ADD #3).</b></li> <li>e. <b>This contractor shall support existing cables that are within the existing manhole that is to be demolished and removed by this contractor (ADD #3).</b></li> <li>f. <b>Communications ductbank temporary support system shall not be supported by scaffolding or similar system. This support system shall be suspended utilizing overhead beams, trusses, pipes, etc... If suspending ductbank from above, chains, cable, or metal strapping shall be used. Temporary support system shall provide sufficient clearance to allow foundation wall construction and concrete operations to occur. This includes any temporary support system above or adjacent to</b></li> </ol>

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

	<p>the foundation wall. Temporary support system shall also provide adequate clearance above and adjacent to future building structural steel that will permanently support existing ductbank (ADD #3).</p> <p>g. Where necessary to incorporate interim post and lintels, within or outside the building footprint, tip elevations of posts shall be coordinated to be below a sufficient distance of bottom of nearby building foundation elevations. <b>Extreme</b> caution shall be taken while hoe ramming rock in the immediate post areas. Following excavation to subgrade elevation, all interim posts are to be protected by <b>New</b> movable concrete jersey barriers to provide protection of posts during construction activities that may occur beyond this scope of work. Barriers to be removed by this contractor after final steel support is installed but are to remain with the project. Include costs to transport to nearby Turner Construction laydown yard. No rental of concrete jersey barriers is allowed (ADD #3).</p> <p>h. This contractor shall coordinate their temporary support and shoring system of the existing communications ductbank with the final structural support steel of the existing communications ductbank. Reference the documents for future final support steel design. Coordination includes but not limited to multiple meetings with project Engineer of Record and this contractors Engineer, and adjustment of interim post locations to avoid interference of future structural steel installations (ADD #3).</p> <p>i. Complete temporary support system to be removed by this contractor at a later date after 1<sup>st</sup> floor SOMD has been placed and cured in this area and final structural support structure installed. Reference Sheet S-408 for final comm duct bank support structure design. This contractor to remove all posts to be below SOG elevation and grout fill any abandoned posts. (ADD #3)</p>
28.	Exercise care to preserve material below and beyond the limits of excavation. Where excavation is carried out, through error, below indicated grade or beyond the lines of excavation, backfill to the indicated grade, compact with approved fill and/or place 4,000 psi structural fill at no additional cost to the Owner, and at the direction of the Engineer or Geotechnical Consultant.
29.	Contractor shall verify all elevations of structures and piping during and after installation. Provide as-built drawings generated by a licensed surveyor documenting X, Y, Z coordinates of structures, invert elevations of all pipe and elevations of bottom of structures / castings.
30.	All work of this Trade Contract shall be properly coordinated with the LFUCG, UK, and any other authorities having jurisdiction inclusive of premium time for night work required by said authorities.
31.	At the conclusion of the project and upon approval from the Construction Manager, this Trade Contractor shall perform a thorough final cleaning of the project site inclusive of walks, slabs, adjacent roadways, and hardscaped areas to turn over in "new condition".
32.	<b>This contractor to include the sewer tap fees as outlined in Article 02 of the Special Conditions. (ADD #3)</b>

<b>D.</b>	<b>EXCLUSIONS</b>
1.	The Scope of Work shall exclude the following:
a.	Payment & Performance Bond

<b>E.</b>	<b>ALLOWANCES</b>	
	<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>	
1	Document Control Server Allowance	\$3,000
2	Additional Hydro Vacuum Allowance	\$20,000
3	Additional Stone Allowance	\$10,000

Attachment "B"  
SCOPE OF WORK  
TC-014 – Site Excavation

4	Additional Ductbank Temporary Support/Shoring Allowance	\$50,000 (ADD #3)
5		

F.	SCHEDULE
	<p>Schedule information is included within the bid manual (<b>Attachment G</b>) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.</p> <p><b>The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.</b></p> <p>It is <b><u>absolutely critical</u></b> that the work of this contract be completed by the dates defined. The intention is that the Subcontractor must provide sufficient labor, equipment, overtime, supervision, etc. to overcome weather delays.</p>

G.	ALTERNATES
	<p>The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.</p>
ALT.1	None





**Attachment "B"**  
**SCOPE OF WORK**  
**TC-014 – Site Excavation**

**IDENTIFICATION OF DIVERSE BUSINESS ENTERPRISE SUBCONTRACTORS AND MATERIAL SUPPLIERS**

Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled.

MBE, WBE, Veterans, Disable Veterans and Disabled make up Diverse Business Enterprises, DBE.

**Participation of DBE owned Contractors and businesses.**

The University of Kentucky encourages and supports the participation Diverse Business Enterprises. Please list Subcontractors and Material Suppliers according to following Ethnic Vendor List or if they are a Woman Owned Business:

- Asian
- Black/African American
- Hispanic or Latino
- Native American Native Hawaiian/Pacific Islander
- White
- Other

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION PROCUREMENT SECTION  
FORM OF PROPOSAL: TC-015 – Foundations

Project No. 2564.0 Project Title: UK Construct Health Education Building

Purchasing Officer: [REDACTED]

NOTE: The following Form of Proposal shall be followed exactly in submitting a proposal for this work. If this copy is lost, an additional copy will be furnished upon written request to the authority issuing Contract Documents.

This Proposal is submitted by: \_\_\_\_\_  
(NAME AND ADDRESS OF BIDDER)

Date: \_\_\_\_\_

Telephone: \_\_\_\_\_

TO: BID CLERK  
UNIVERSITY OF KENTUCKY  
CAPITAL CONSTRUCTION  
PROCUREMENT  
RM. 322 SERVICE BUILDING  
LEXINGTON, KY. 40506-0005

INVITATION TO BID: CCK-  
BID OPENING DATE: January 1, 2015  
TIME 3:00 P.M. E.D.T.

The Bidder, in compliance with your Invitation for Bids for the above referenced Project, having carefully examined the site of the Work, the Drawings and complete Contract Documents as defined in Article I of the General Conditions, as well as the Specifications affecting the work as prepared by the Consultant, hereby proposes to furnish all labor, materials, supplies and services required to construct the Project in accordance with the Contract Documents, within the time set forth therein, and at the price stated below without qualification.

The Bidder hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATED \_\_\_\_\_

(Here insert the number and date of any Addenda issued and received. If none has been issued and received, the word NONE should be inserted.)

**Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations**

Contractor Report of Prior Violations of  
Chapters 136,139, 141, 337, 338, 341, and 342

Pursuant to KRS 45A.485, the Contractor shall, prior to the award of a Contract, reveal final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 by the Contractor that have occurred in the previous five (5) year period.

This statute also requires for the duration of the Contract established, the Contractor be in continuous compliance with the provisions of Chapters 136, 139, 141, 337, 338, 341, and 342 that apply to the Contractor's operations. The Contractor's failure to reveal a final determination of a violation of KRS Chapters 136, 139, 141, 337, 338, 341, and 342, or failure to comply with any of the above cited statutes for the duration of the Contract shall be grounds for the cancellation of the Contract, and the disqualification from eligibility for future contracts for a period of two (2) years.

The Contractor, by signing and submitting a Bid on this Invitation, agrees as required by KRS 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341, and 342 that have occurred in the previous five (5) years prior to the award of a Contract and agrees to remain in continuous compliance with the provisions of these statutes during the duration of any contract that may be established. Final determinations of any violations of these statutes, must be provided to the University by the successful Contractor prior to the award of a Contract.

LUMP SUM PROPOSAL

The Bidder agrees to furnish all labor, materials, supplies and services required to complete the Work, for the above referenced Project, for the Capital Construction Procurement Section, University of Kentucky, as described in the Specifications and Contract Documents and shown on the Drawings enumerated below and as modified by the Addenda listed above.

FOR THE LUMP SUM OF \_\_\_\_\_  
(USE WORDS)

\_\_\_\_\_ DOLLARS AND \_\_\_\_\_ CENTS.  
(USE WORDS) (USE WORDS)

(\$ \_\_\_\_\_)  
(USE FIGURES)

**Alternates:** **None**

**SUPERINTENDENT**

In accordance with Article 17 of the General Conditions a full-time superintendent will be required on this project. Below, please list the superintendent your firm will employ on this project. The successful Bidder will be required to furnish a resume of the superintendent's qualifications and or past projects.

\_\_\_\_\_  
List the Superintendent's Name

**The apparent low bidder is requested to attend a post bid meeting on April 19, 2024 at 10:00 am in the Turner Field Office. All parties (prime and subcontractors) are required to attend in person. (ADD #3)**



Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

FORM OF PROPOSAL

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby certify:

1. That I am the Bidder (if the Bidder is an individual), a partner in the Bidder (if the Bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the Bidder is a corporation);
2. That the submitted Bid or Bids covering Capital Construction Procurement Section Invitation No. **CCK-** have been arrived at by the Bidder independently and have been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other contractor, vendor of materials, supplies, equipment or services described in the Invitation to Bid, designed to limit independent bidding or competition; as prohibited by provision KRS 45A.325;
3. That the contents of the Bid or Bids have not been communicated by the Bidder or its employees or agents to any person not an employee or agent of the Bidder or its surety on any bond furnished with the Bid or Bids and will not be communicated to any such person prior to the official opening of the Bid or Bids;
4. That the Bidder is legally entitled to enter into the contracts with the University of Kentucky and Turner Construction Company and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 164.390, and 45A.330 to 45A.340 and 45A.455;
5. This offer is good for 60 calendar days from the date this Bid is opened. In submitting the above, it is expressly agreed that upon proper acceptance by the Capital Construction Procurement Section of any or all items Bid above, a contract shall thereby be created with respect to the items accepted;
6. That I have fully informed myself regarding and affirm the accuracy of all statements made in this Form of Proposal including Bid Amount.
7. Unless otherwise exempted by KRS 45.590, the Bidder intends to comply in full with all requirements of the Kentucky Civil Rights Act and to submit data required by the Kentucky Equal Employment Act upon being designated the successful contractor.
8. That the bidding contractor and all subcontractors to be employed do not and will not maintain any facilities they provide for employees in a segregated manner and they are in full compliance with provisions of 41 CFR 60-1.8 that prohibits the maintaining of segregated facilities.
9. In accordance with KRS45A.110(2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to the bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

READ CAREFULLY - SIGN IN SPACE BELOW - FAILURE TO SIGN INVALIDATES BID

SIGNED BY \_\_\_\_\_ TITLE \_\_\_\_\_

PRINT NAME \_\_\_\_\_ FIRM \_\_\_\_\_

ADDRESS \_\_\_\_\_ AREA CODE & PHONE \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

BIDDER'S EMAIL \_\_\_\_\_ DATE \_\_\_\_\_



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

THE FOLLOWING ITEMS ARE HEREWITH ENCLOSED AS REQUIRED BY KRS 45A.185

1. Bid Bond or Certified Check in an amount not less than five percent (5%) of total Bid.
2. List of Proposed Subcontractors and Unit Prices. (if required)
3. Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest.
4. List of Materials and Equipment.
5. **VENDOR NUMBER:** It is imperative that you furnish your Federal Employer Identification Number in the space provided below. Failure to do so may delay the processing of purchase orders issued to your firm.

---

(Nine Digit Number)

**BIDDER'S QUALIFICATIONS**

The Commonwealth of Kentucky Model Procurement Code (KRS 45A.080) requires contracts to be awarded, "to the responsive and responsible bidder whose bid offers the best value" to the University of Kentucky. In order to determine if the Bidder has the experience, qualifications, resources and necessary attributes to provide the quality workmanship, materials and management required by the plans and specifications, the Bidder may be required to complete and submit the information requested on the University of Kentucky Contractor Bidder Determination of Responsibility questionnaire. Failure to provide the information requested on the questionnaire or failure to provide any additional submittals or information that may be requested to make this determination may be grounds for a declaration of non-responsibility with respect to the Bidder. A copy of the Contractor Determination of Responsibility questionnaire is available upon request to all Bidders.

**TIME LIMIT FOR EXECUTION OF CONTRACT DOCUMENTS**

It is further agreed, that in the event this Proposal is accepted by the Owner and the undersigned shall fail to execute the Contract and furnish satisfactory Payment and Performance Bond within ten (10) consecutive calendar days from the date of notification of the award of the Contract, the Owner may at his option, determine that the undersigned has abandoned the Contract and thereupon, the Proposal shall become null and void and the Bid guarantee, check or Bid bond which accompanied it shall be forfeited and become the property of the Owner as liquidated damages for each failure and no protest pursuant to such action will be made. If the Undersigned shall execute the Contract, and furnish satisfactory Payment Bond and Performance Bond, it is understood that the Bid Guarantee or Bid Bond will be returned to the undersigned by the Owner.



Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

HOURLY RATES

The Hourly Rates as established shall be used to determine the equitable adjustment of the Contract Price in connection with changes, deletions or extra work performed under the Contract and the "Rules of Measurement" set forth in the General Conditions shall govern.

*All Bidders will be required to complete and submit the following Hourly Rates with the bid.*

Note the following:

- Overhead & Profit to be **EXCLUDED** from rates below & will be calculated separately
- Complete a separate Wage Breakdown for each trade or subcontractor

STRAIGHT TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

PREMIUM TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

DOUBLE TIME		CLASSIFICATION							
Description	Unit	PM	Engineering	Super	Gen. Foreman	Foreman	Journeyman	Apprentice	Other (_____)
Base Wage	/hr	\$	\$	\$	\$	\$	\$	\$	\$
H&W	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Pension	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Apprentice	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Vacation	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Annuity	/hr	\$	\$	\$	\$	\$	\$	\$	\$
Education	/hr	\$	\$	\$	\$	\$	\$	\$	\$
FICA	____%	\$	\$	\$	\$	\$	\$	\$	\$
Medicare	____%	\$	\$	\$	\$	\$	\$	\$	\$
FUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
SUI	____%	\$	\$	\$	\$	\$	\$	\$	\$
Workers Comp	____%	\$	\$	\$	\$	\$	\$	\$	\$
GL Ins.	____%	\$	\$	\$	\$	\$	\$	\$	\$
<i>Other Fringe/Burden (List Below)</i>									
		\$	\$	\$	\$	\$	\$	\$	\$
<b>TOTAL</b>		\$	\$	\$	\$	\$	\$	\$	\$

Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

BID BREAKOUT

Fill in the following breakdown of costs included in your base bid. Each item is to include labor, material & equipment. These will not be considered unit prices nor will the numbers listed here limit obligations required in the bid documents. It will be used only to aid in verifying completeness of the bids.

	Description of Work	Labor Hours	Quantity	Unit	Unit Cost	Total
1	Engineering, Layout, and Submittals				\$	\$
2	Mobilizations, Permits and Fees				\$	\$
3	Dewatering				\$	\$
4	Basement Footings, Grade Beams, and Foundation Walls				\$	\$
5	Basement Slab on Grade				\$	\$
6	Elevator Pits				\$	\$
7	Chilled Water Vault				\$	\$
8	Waterproofing				\$	\$
9	Rock Anchors				\$	\$
10	Tower Crane Base Foundations				\$	\$
11	Termite Control				\$	\$
12	Rock Removal				\$	\$
13	Excavation				\$	\$
Please list and breakdown below any work that has not been listed above						
14					\$	\$
15					\$	\$
16					\$	\$
17	Management				\$	\$
18	Safety and Housekeeping				\$	\$
19	General Work Requirements				\$	\$
20	Overhead and Profit				\$	\$
<b>Allowances (to be included in bid amount)</b>						
1	Document Control and Server Allowance					\$ 3,000
2	Additional Reinforcing Allowance					\$ 15,000
3	Additional Stone Allowance					\$ 100,000
4						
5						
<b>TOTAL BID AMOUNT</b>						\$
<b>(This amount should match the Lump Sum listed on Form of Proposal)</b>						
Cost of Payment & Performance Bond <b>(DO NOT INCLUDE THIS COST IN BID AMOUNT)</b>						\$

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

SCOPE OF WORK

A.	GENERAL
1.	Provide labor, material, equipment, and all else necessary to furnish and install complete the TC-015 Work as required by the contract documents and as outlined below
2.	The following scope of work is intended to be general in nature. The purpose of this scope of work is not to identify or list every scope of work item already shown or described in the contract documents, but rather to coordinate, clarify, modify, and/or expand the scope.
3.	The intention is to have the successful Subcontractor perform all the TC-015 related work shown on the Contract Documents other than those items specifically indicated below to be excluded.
4.	Detail references are included for convenience but are not intended to identify all applicable details. If the Contract Drawings and Specifications conflict, then the greater quantity and quality shall apply. The Scope of Work takes precedence over the drawings and specifications in the event of a conflict in trade assignment or responsibility. Attention is called to the Bid Manual and the Subcontractor shall include all costs necessary to provide all work to meet the requirements of this scope of work.
5.	In this Scope of Work, the term "provide" shall be defined as meaning "furnish and install."

B.	DOCUMENTS
1.	General Contract between Turner and the Owner including all attachments
2.	All documents in bid manual including but not limited to: <ul style="list-style-type: none"> <li>• Drawings</li> <li>• Specifications</li> <li>• Scope of Work (Attachment B)</li> <li>• General Requirements</li> <li>• General Conditions</li> <li>• Special Conditions</li> <li>• Sample Subcontract Agreement Form (Form 36)</li> <li>• Sample 3A Page</li> </ul>
3.	Bid Manual including all <b>Sketches</b> and <b>Attachments</b> prepared by Turner Construction and listed below
4.	<b>Attachments</b>
	<ul style="list-style-type: none"> <li>a. Attachment C - Safety Program</li> <li>b. Attachment E - Accounting Procedures</li> <li>c. Attachment F - Percentage Markup</li> <li>d. Attachment G - BP-02 Bid Schedule</li> <li>e. Attachment H - BIM General Requirements</li> <li>f. Attachment I - LEAN Subcontract Exhibit</li> <li>g. Attachment K - CCIP Manual</li> <li>h. Attachment L - Tree Protection Standards</li> <li>i. Attachment M – Waste Management Standard</li> <li>j. Attachment N – Turner Subcontractor Onboarding</li> <li>k. Attachment O – UK HEB Enhancing Worker Experience Plan</li> </ul>
5.	<b>Sketches</b>
	<ul style="list-style-type: none"> <li>a. SK-001 – BMP Phasing Plan</li> <li>b. SK-002 – Phase Site Logistics Plan</li> <li>c. SK-003 – Estimated Rock Surface</li> <li>d. SK-004 – Trailer and Laydown Setup</li> <li>e. SK-005 – Tower Crane Reinforcement (ADD #3)</li> <li>f. SK-006 – BP-02 Site Storm Installation Plan (ADD #3)</li> </ul>
6.	<b>Specifications</b>



**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

	The following specification sections are listed as the responsibility of the Subcontractor in defining its area of work on this project. Unless specifically indicated otherwise or excluded below, this Contractor is responsible for the complete specification sections indicated below. <ol style="list-style-type: none"> <li>a. <b>Section 03 0300 – Structural Excavation and Backfill</b></li> <li>b. <b>Section 03 3000 – Cast-in-Place Concrete</b></li> <li>c. <b>Section 05 1000 – Structural Anchors</b></li> <li>d. <b>Section 07 1326 – Self Adhering Waterproofing</b></li> <li>e. <b>Section 07 2100 – Thermal Insulation</b></li> <li>f. <b>Section 31 2000 – Earth Moving</b></li> <li>g. <b>Section 31 2001 – Storm Water Pollution Prevention Plan</b></li> <li>h. <b>Section 31 2319 – Dewatering</b></li> <li>i. <b>Section 31 3116 – Termite Control</b></li> <li>j. <b>Section 31 6813 – Rock Anchors</b></li> </ol>
7.	Divisions 00 and 01 of the Specifications are general in nature, and apply to all Subcontracts. These sections are included "complete" as part of this Subcontract Agreement.
8.	The Contractor is also responsible for trade specifications not specifically listed above but required by reference in the listed specifications or as required to perform the scope of work described herein, as well as the Bidding Requirements, Contracting Requirements and the use of the Construction Documents as a whole.

<b>C.</b>	<b>SPECIFIC SCOPE ITEMS</b>
1.	Contract Price is LUMP SUM. There shall be NO additional labor and material escalations allowed.
2.	Examination of Site – Subcontractor warrants that they have sufficiently reviewed the project site to inform themselves of all items about existing site that are relevant to their work, and the cost of their work.
3.	Include protection all adjacent structures during performance of this work. Plan for protection of adjacent structures must be part of the overall plan submitted for approval prior to start of work.
4.	<b>SITE LOGISTICS:</b> Refer to the Site Logistics plans included in the Contract Documents. Delivery trucks are to be scheduled with Turner at least one (1) week in advance.
5.	Subcontractor change order requests shall be provided with sufficient detail (as acceptable to Turner) to allow for satisfactory review. Subcontractor shall be allowed a maximum mark up for overhead and profit per the markup provisions included in the Subcontract Agreement, or as clarified in Contract Documents above.
6.	Subcontractor understands that <b>time is of the essence</b> in the prosecution of Work under this agreement.
7.	Verify layout provided by others. Where this subcontractor is performing work using layout provided by others, this subcontractor shall perform sufficient verification of that layout to reasonably ascertain the validity of that layout. Any deficiencies (or suspected deficiencies found) shall be reported to Turner immediately to allow corrections as needed before start of work by this subcontractor.
8.	All Subcontractors must be licensed as required by local, State, or Federal jurisdiction required for work of this trade in this project location.
9.	This Subcontractor will comply with <b>Turner's corporate safety policy</b> contained in Attachment C of this Scope of Work.
10.	<b>Refer to Project "General Work Requirements"</b> in volume one of the project manual. Any costs for work scope items listed in this section shall be included in your lump sum bid. Some work items are listed for specific trade contractors, and they shall include those costs in their respective total lump sum bid price.
11.	This contractor is required for their full-time superintendent to be onsite at all times to assist in the coordination of the project. This person is to have no labor responsibilities onsite.
12.	All unloading, distribution, staging, hoisting, rigging, scaffolding, lifts, platforms, scissor lifts, boom lifts, planking, guying, sheeting, shoring, dewatering, bracing transportation, access for material, equipment and personnel required to perform this work is included in this contract.
13.	This Subcontractor is responsible to repair any asphalt, roadway, curb/gutter, granite, and sidewalk outside the area of demolition that is damaged by this Contractor, their Subcontractors, or haulers.
14.	This contractor is to prepare and submit for review all plans and certifications, etc. required by the EPA, OSHA, Turner Construction policies, and all other governing bodies.

Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

15.	Include all site & <b>street cleaning</b> related to work performed by this scope. This is to be performed on a continuous basis throughout the day as this contractor is performing the work.
16.	<p>TC-006 Surveying is to establish initial benchmark(s) and building control. TC-015 Foundations contractor shall provide all <b>engineering and layout</b> (including controls) to complete this scope of work. This includes protection of reference points and replacement of such points that are lost or damaged during the execution of this work.</p> <ul style="list-style-type: none"> <li>a. This Trade Contractor is responsible for all lines, elevations, and measurements executed under this contract.</li> <li>b. This Trade Contractor shall layout and establish all lines and elevations required for this work.</li> <li>c. This Trade Contractor shall verify figures and dimensions shown on the drawings or indicated in the approved shop drawings before laying out the work. Verify conditions and dimensions of previously installed work. Report any perceived inconsistency or error in drawings, layout, or previously installed work to the Construction Manager prior to proceeding with the work.</li> <li>d. Include an additional (80) hours of surveying above and beyond your scope of work to be used at the discretion of the CM.</li> </ul>
17.	<p>Early site environmental protection will be provided by TC-008. TC-015 will be responsible to provide and maintain any <b>BMPs</b> within the work area due to damages or negligence by this scope of work. Reference project drawings and specifications for silt fence and silt trap details. Removal of silt fencing will be by others near project completion. Include adequate dust control required for the scope of work and assume all dust-producing activities must be performed "wet" in accordance with the infection control guidelines.</p> <ul style="list-style-type: none"> <li>a. Provide Concrete Wash-Down - Concrete wash-out is to be performed in a lined or prefabricated wash out dumpster at a location approved by Turner's Superintendent and cleaned out regularly by the Foundations contractor. Contractor to include moving dumpster as needed throughout the duration of their scope as directed by the CM. Dumpsters must follow all applicable environmental standards, OSHA requirements including railing or barricades and SWPPP requirements. Waste shall be hauled off-site and disposed of properly.</li> </ul>
18.	<p>Provide all <b>hauling and/or dumpsters</b> required for <del>all site demolition and/or mass excavation activities</del> this scope of work as needed. (ADD #3)</p> <ul style="list-style-type: none"> <li>a. See section <b>01 7419 Construction Waste Management and Disposal</b> for additional information.</li> <li>b. <del>Assume all concrete wash out to be collected and recycled. Provide weight tickets and other documentation as outlined in Specification 017419.</del> (ADD #3)</li> </ul>
19.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment required to maintain a complete and functioning <b>DEWATERING</b> system as shown on Contract Documents and in accordance with section 31 2319. This system will be provided and installed by TC-014 Site Excavation contractor and transferred to TC-015. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. Maintain four (4) sump pits for the purposes of dewatering the building excavation.</li> <li>b. Maintain four (4) utility pumps with integral floats with a minimum flow rate of 60gpm at 20 ft of head. Dewatering includes all necessary rigid piping for the pits and means to move the water outside of the excavation. Maintain pumps during your site activities.</li> <li>c. Maintain two (2) utility pumps with integral floats that are to be used in manholes 8A and 8B.</li> <li>d. Assume use of filters, dewatering bags, or other means to prevent pumping / discharging fine sediments onto surrounding properties or into storm sewers or streams.</li> <li>e. Trade Contractor responsible to ensure dewatering system functional for duration of this scope of work. Include off hours maintenance as required.</li> <li>f. Locations of pits to be determined by the Construction Manager with coordination of TC-015 Foundations contractor.</li> </ul>
20.	<p>Complete <b>all footings, grade beams, and foundation walls</b> including excavation of rock and overburden (continuous spoil removal) and backfill as shown on Contract Documents and in accordance with section 03 3000 Cast-in-Place Concrete. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. Reference Detail A/S-301 Typical Rock-Bearing Footing Detail for areas where bottom of footing is not on competent rock. This contractor shall excavate, haul off, and provide structural concrete fill from competent rock to bottom of footing elevation as indicated on the documents. Refer to spec section 03 0300 Structural Excavation and Backfill as it relates to competent rock verification.</li> <li>b. Include probe holes below footings as indicated on the documents. Reference A/S-301 and General Notes.</li> </ul>

Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

	<ul style="list-style-type: none"><li>c. Receive and set sleeves for MEP penetrations and embeds for new foundation walls and foundation wall footings.<ul style="list-style-type: none"><li>i. Reference B &amp; C S-301. This contractor to receive and install MEP sleeves below and within foundations footings. Include concrete around sleeves as indicated. Include additional reinforcement as shown for sleeves within footings.</li><li>ii. Assume (4) square openings 5' or less for electrical penetrations through the foundation wall. Coordinate these openings with CM.</li><li>iii. Furnish and install (6) 24" diameter schedule 80 steel pipe sleeves including associated rebar. Coordinate these openings with CM.</li></ul></li><li>d. Receive/inventory, unload, store, protect, distribute, layout and install anchor rod assemblies and embeds provided by others. This contractor shall include providing templates, and/or any special instructions required for the proper installation. The work shall also include an anchor bolt survey upon completion of installation. Prior to surveying this contractor to plumb up any anchor bolts that are leaning out of tolerance.<ul style="list-style-type: none"><li>i. The survey shall specifically highlight any bolts that are out of tolerance by more than 1/4". Any anchor bolts that aren't accepted by the steel contractor will be repaired by TC-015.</li></ul></li><li>e. Include grout below plate washers at steel columns shown on A/S-203. Include (8) separate remobilizations to grout base plates.</li><li>f. Provide and maintain temporary guardrail system around all elevator pits. Re-install guardrail systems after SOG is cast. Maintain until completion of this TC scope of work.</li><li>g. Include cleaning of rust/debris off all anchor bolts prior to column isolation protection.</li><li>h. This trade contractor is to install the steps per N/S306 and include any fill required for the stair slab.</li><li>i. Include leave out of concrete foundation walls for basement access at the West and South sides of the building. Reference SK-002.5. Include Dowel Bar Reinforcement (DBR's) for all horizontal rebar in the walls and vertical rebar in the footings to tie into at a later date by this contractor.<ul style="list-style-type: none"><li>i. TC-014 will install gravel ramp access into basement. Reference SK-002.5. TC-015 contractor shall be responsible for removing the gravel ramp where footings and walls are located to complete scope of work and replace gravel ramp to bridge back over top of south footer as needed. Include compacting of gravel.</li></ul></li><li>j. Include Dowel Bar Reinforcement (DBR's) in foundation wall where future loading dock footings will tie into building foundation wall.</li><li>k. There will be a <b>live communications ductbank</b> being shored and will have to work around the shoring. Small equipment will be able to cross below ductbank, but not concrete trucks or cranes, etc. Reference survey drawings for ductbank elevations.<ul style="list-style-type: none"><li>i. <b>Provide ten (10) box-outs at ductbank temporary support structure posts provided by TC-014. (ADD #3)</b></li></ul></li><li>l. Include backfill to subgrade for areas disturbed by foundation work.</li><li>m. This trade contractor is to include perimeter insulation below grade for basement footers, slab on grade, chilled water vault, elevator pit and sump pits.</li><li>n. Provide Control Joints and Expansion Joints within 24 hours of concrete placement in accordance with the contract documents as it pertains to this scope of work.</li><li><b>o. Include patching/filling of form tie holes, honeycomb, aggregate pockets, holes, and other voids, and include grinding of any fins or protrusions for waterproofing installation by TC-014. (ADD #3)</b></li></ul>
21.	<p>This Contractor shall include all materials, labor, tools, and equipment required to install a complete <b>CAST-IN-PLACE CONCRETE CHILLED WATER VAULT</b> as shown on the Contract Documents. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"><li>a. There will be an existing 24" Chilled Water Line shown on page MU-101 that will be running through the area where the Chilled Water Vault will be installed. This trade contractor to assume forming and pouring this cast-in place Chilled Water Vault around the existing chilled water lines.</li><li>b. Include a separate mobilization to do this work.</li><li>c. Include embeds.</li><li>d. Permanent covers will be installed by others later. This trade contractor to provide temporary road plates upon completion of this scope of work to remain. Removal of temporary road plates will be by others.</li></ul>

Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations

	<ul style="list-style-type: none"> <li>e. This trade contractor is to provide their own ladders to enter and exit the chilled water vault until their scope of work is completed.</li> <li>f. Lagging and excavation will be by TC-014 Excavation contractor. TC-015 to remove lagging boards and cut off soldier beams 4' below grade as backfill is installed.</li> <li>g. Include 2" concrete mudmat per C/S-703.</li> <li>h. Receive and set sleeves for MEP penetrations for new vault walls. Coordinate reinforcement for wall openings per details in contract documents</li> <li>i. <b>Provide all necessary shoring as required for the installation of the chilled water vault. Include \$5,000 for 3<sup>rd</sup> party review of vault lid shoring design as directed by CM. (ADD #3)</b></li> </ul>
22.	<p>Complete <b>all slab-on-grade (SOG), reinforcing, vapor retarder, and granular base</b> as shown on Contract Documents and in accordance with section 03 3000 Cast-in-Place Concrete. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. Include 6" minimum compacted dense graded aggregate. Reference detail G/S-304 for fill requirements. <ul style="list-style-type: none"> <li>i. Include fine grading as necessary to place slab on grade. Assume subgrade will be +/-1".</li> </ul> </li> <li>b. Include expansion joints as indicated in the documents.</li> <li>c. Provide and maintain (until completion of this TC scope of work) slab-on-grade column isolation floor coverings. Steel contractor will remove column isolation floor coverings. Floor coverings shall be 3/4" thick CDX plywood anchored with Tap Cons. Steel contractor will have temporary guard rails installed after all steel columns are in place in basement area for protection. This contractor shall remove these temporary guard rails prior to pouring back the column isolations. Include silicone to seal covers to finish slab. <ul style="list-style-type: none"> <li>i. Include box outs for tier seating in basement classroom.</li> <li>ii. Coordinate with steel contractor on box out sizes.</li> </ul> </li> <li>d. The intent is to place the SOG prior to commencement of structural steel erection. Include remobilization(s) to pour back all box outs associated with the SOG and column isolations. Refer to attachment G.</li> </ul>
23.	<p>This contractor is to include all <b>waterproofing, protection board, insulation, sub-drainage, and backfill</b> as required and detailed for new elevator pits and cast-in-place concrete chilled water vault. Complete in accordance with the Contract Documents and with Division 07 Thermal and Moisture Protection, and Division 33 Utilities.</p> <ul style="list-style-type: none"> <li>a. Include free draining backfill per contract documents.</li> <li>b. Provide termination bar as required per manufacturer's instructions.</li> <li>c. Include waterproofing at mudmat on CHW vault as indicated on C/S-703.</li> </ul>
24.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment required to provide a complete <b>ROCK ANCHORS</b> system as shown on Contract Documents and in accordance with section 31 6813. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. Include all sleeving as necessary to install rock anchors per detail C/S-303.</li> <li>b. Include all necessary testing equipment and any misc. materials needed to perform the rock anchor testing (crane mats, beams, etc.).</li> </ul>
25.	<p>This Trade Contractor shall include all materials, labor, tools, and equipment required to provide <b>TOWER CRANE BASE FOUNDATIONS</b> complete as shown on Contract Documents and as located in SK-002.5. This work includes but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a. Remove gravel from previously excavated tower crane foundations by TC-014 Excavation Contractor.</li> <li><del>b. Provide and install (2) 16' x 16' x 5'-9" tower crane foundation pads.</del> <b>Provide and install tower crane foundation pads based on the following sizes. ADD #3</b> <ul style="list-style-type: none"> <li>i. <b>Tower crane base MD569 will be 25' square min. with 6'4" thickness. (ADD #3)</b></li> <li>ii. <b>Tower crane base MD485 will be 22' square min. with 6'4" thickness. (ADD #3)</b></li> </ul> </li> <li>c. High early strength concrete is required for tower crane base foundations. Concrete should achieve full strength within 48 hours after being placed. University of Kentucky will provide all concrete testing and will submit concrete break test results to CM within time frame.</li> <li>d. <b>Provide and install reinforcement per SK-005. (ADD #3)</b></li> <li>e. Include installing all necessary anchor rods, anchor plates and nuts provided by steel contractor.</li> <li>f. <b>Provide and install all rock anchors as required for the Tower Crane foundation pads. (ADD #3)</b></li> </ul>

**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

	<ul style="list-style-type: none"> <li>i. Include 12 rock anchors for MD569. (ADD #3)</li> <li>ii. Include 8 rock anchors for MD485. (ADD #3)</li> <li>g. Include excavation and any necessary shoring and backfill to install West Tower Crane base foundation. (ADD #3)</li> <li>h. Include any necessary shoring and backfill to install North Tower Crane base foundation. (ADD #3)</li> </ul>
26.	<p>This trade contractor shall be responsible to meet all ACI 305.1 Hot Weather Concrete Placement and ACI 306.1 Cold Weather Placement requirements. Contractor is to provide all necessary cooling, temp heat, blankets, and weather enclosures to meet the intent of the documents for complete scope of work. <b>Not including costs for this based on schedule timelines does not relieve this trade contractor from having to perform these duties at no additional costs.</b></p> <ul style="list-style-type: none"> <li>a. Cast-in-place walls will need to be blanketed both before and after concrete placement to protect against freezing temperatures.</li> </ul>
27.	<p>This trade contractor is to include <b>TERMITE CONTROL</b> as specified in the construction documents. Reference the SPEC SECTION 31 3116.</p>

D.	EXCLUSIONS
	The Scope of Work shall exclude the following:
1.	Payment & Performance Bond
2.	MEP House Keeping and Equipment Pads
3.	Loading Dock Concrete
4.	Concrete infill for steel pan stairs
5.	South Patio foundations and slabs
6.	Ladders and Landscaping beds for Chilled Water Vault

E.	ALLOWANCES	
	<p>The Contract Sum shall be the addition of a base bid amount plus allowances. It is expressly understood and agreed that all allowance work will be completed within the original schedule. Progress Payments will be made against Allowance expenditures, based on approved monthly invoices &amp; written Allowance Authorization from Turner. Any unused funds remaining in these allowances will be credited back to the Project.</p> <p>Only direct Labor, Material, and Equipment costs authorized in writing by Turner after approval by the Owner are to be charged to the Allowance. The Subcontractor's cost for all overhead and profit on the allowance amount shall be included in the base bid amount and not in the allowance amount.</p>	
1	Document Control and Server Allowance	\$ 3,000
2	Additional Reinforcing Allowance	\$ 15,000
3	Additional Stone Allowance	\$ 100,000
4		
5		

F.	SCHEDULE
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**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

Schedule information is included within the bid manual (**Attachment G**) to aid the Subcontractor in anticipating material deliveries, and manpower and equipment requirements. The information describes only the major activities of this scope of work and does not attempt to describe any out of sequence work required.

**The Contractor must confirm that you will meet the project schedule as indicated in the bid manual.**

It is **absolutely critical** that the work of this contract be completed by the dates defined. The intention is that the Subcontractor must provide sufficient labor, equipment, overtime, supervision, etc. to overcome weather delays.

<b>G.</b>	<b>ALTERNATES</b>
	The following "Alternate(s)" may be accepted and incorporated herein as part of the Scope of Work for the respective price. Inasmuch as these Alternates were anticipated from the inception of the project and were priced accordingly, all overhead, profit and escalation has been included within the lump sum amount and the price shall remain firm throughout the duration of the project, unless specifically noted. Indicate Add/Deduct Price on the Form of Proposal.
ALT.1	None

**Attachment "B"  
SCOPE OF WORK  
TC-015 – Foundations**

PRIMARY LIST OF PROPOSED SUBCONTRACTORS

All subcontractors are subject to the approval of the Capital Construction Procurement Section and Capital Project Management Division, University of Kentucky, Lexington, KY.

If certain branches of the Work are to be done by the Prime Contractor, so state.

**The apparent low bidders will be required to complete and submit to the University the following information by twelve o'clock (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.**

DIVISION OF WORK	NAME AND ADDRESS OF SUBCONTRACTOR
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**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

LIST OF MATERIALS AND EQUIPMENT

Each item listed under the different phases of construction must be clearly identified so that the Owner will definitely know what the Bidder proposes to furnish.

The use of a manufacturer's or dealer's name only, or stating "as per Plans and Specifications," will not be considered as sufficient identification.

Where more than one "Make" or "Brand" is listed for any one item, the Owner has the right to select the one to be used.

**The apparent low bidders will be required to complete and submit to the University the following information by twelve o'clock (12) noon of the first working day following the bid opening. The information requested in this submittal is required to assist the University in determining contractor responsibility to complete the project being bid.**

**The apparent low bidder is requested to attend a post bid meeting which will be scheduled at a later date.**

MATERIALS AND EQUIPMENT

BRAND OR MANUFACTURER




**Attachment "B"**  
**SCOPE OF WORK**  
**TC-015 – Foundations**

**IDENTIFICATION OF DIVERSE BUSINESS ENTERPRISE SUBCONTRACTORS AND MATERIAL SUPPLIERS**

Diverse Business Enterprises (DBE) consist of minority, women, disabled, veteran and disabled veteran owned business firms that are at least fifty-one percent owned and operated by an individual(s) of the aforementioned categories. Also included in this category are disabled business enterprises and non-profit work centers for the blind and severely disabled.

MBE, WBE, Veterans, Disable Veterans and Disabled make up Diverse Business Enterprises, DBE.

**Participation of DBE owned Contractors and businesses.**

The University of Kentucky encourages and supports the participation Diverse Business Enterprises. Please list Subcontractors and Material Suppliers according to following Ethnic Vendor List or if they are a Woman Owned Business:

- Asian
- Black/African American
- Hispanic or Latino
- Native American Native Hawaiian/Pacific Islander
- White
- Other

1. DBE (Ethnic or Woman) Subcontractors

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2. DBE (Ethnic or Woman) Material Suppliers

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RESERVED FOR AHJ STAMP

**CARMAN**  
ARCHITECTURE  
LANDSCAPE ARCHITECTURE  
CIVIL ENGINEERING

**BP-01A & BP-01B**  
**UNIVERSITY OF KENTUCKY**  
**HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**CIVIL**

PROJECT	202170	
DATE	10.20.23	
<b>REVISIONS</b>		
No.	Description	Date
1	ASI	03.26.24

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN AN ELECTRONIC OR ANY OTHER FORMAT, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN THAT FOR WHICH THEY WERE ORIGINALLY INTENDED. THE CLIENT AGREES NOT TO TRANSMIT THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**EROSION CONTROL PLAN**

**C100**

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**EROSION CONTROL NOTES**

- CONTRACTOR SHALL ENSURE THAT HE/SHE IS IN POSSESSION OF A SET OF APPROVED FINAL CONSTRUCTION DOCUMENTS AND STORM WATER POLLUTION PREVENTION PLANS APPROVED BY THE LOCAL AUTHORITY HAVING JURISDICTION. COPIES OF THE APPROVED PLANS AND PERMITS SHALL BE KEPT ON THE SITE AT ALL TIMES AND MADE AVAILABLE TO INSPECTORS.
- AS PART OF THE KENTUCKY POLLUTION DISCHARGE ELIMINATION SYSTEM, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT AN NOI-SWCA TO THE KENTUCKY DIVISION OF WATER. APPLICANTS MUST FILE USING THE ELECTRONIC WEB BASED NOI SUBMISSION SYSTEM AT THE FOLLOWING WEB ADDRESS: <https://dep.gotwky.gov/eforms/default.aspx?formid=7> COMPLETION OF THE NOI-SWCA SHALL BE COMPLETED A MINIMUM OF SEVEN (7) DAYS BEFORE THE PROPOSED DATE FOR COMMENCEMENT OF CONSTRUCTION ACTIVITIES. COPY OF THE APPROVED NOI-SWCA SHALL BE SUBMITTED TO CARMAN AND UK ENVIRONMENTAL DEPARTMENT. CONTRACTOR SHALL PERFORM INSPECTIONS AND KEEP ON-SITE RECORDS OF INSPECTIONS AND MAINTENANCE OF EROSION CONTROL DEVICES AS DESCRIBED IN THE SPECIFICATIONS AND KYR10.
- CONTRACTOR SHALL INSTALL CONSTRUCTION ENTRANCE AS INDICATED ON THE PLANS. CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH NON-WOVEN FILTER FABRIC.
- CONTRACTOR TO INSTALL CONCRETE WASH OUT PIT AS INDICATED ON THE PLANS, THOUGH LOCATION MAY MOVE (WITH APPROVAL OF UK ENVIRONMENTAL DEPARTMENT) AS NECESSARY TO BEST SUIT OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONCRETE WASH, FUNCTIONING PROPERLY WITH BUILDUP OF MATERIALS DISPOSED OF OFF-SITE IN A LAWFUL MANNER.
- SILT FENCE (AND WATTLES) SHALL BE INSTALLED AS INDICATED ON THE PLAN PRIOR TO MOBILIZATION OF THE SITE. SILT FENCE IS TO BE INSTALLED FOLLOWING CONTOURS AS APPLICABLE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SILT FENCE AND REMOVAL OF SILTATION WHEN IT REACHES ONE-THIRD FENCE HEIGHT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF SILT FENCE AT SUCH TIME THAT SEEDING IS 70% ESTABLISHED AND/OR SOO ESTABLISHED SO THAT NO EROSION IS OCCURRING REGARDLESS OF TIMING. SILT FENCE SHALL BE REMOVED AT NO COST TO THE OWNER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT FREE FROM MUD, DIRT, DEBRIS, ETC.
- CONTRACTOR SHALL ESTABLISH INLET PROTECTION FOR ALL PROPOSED AND EXISTING STRUCTURES AND SHALL MAINTAIN THE FUNCTIONALITY OF THE PROTECTION THROUGHOUT THE TIME EXTENT OF THE PROJECT.
- AFTER CONSTRUCTION ENTRANCE, SILT FENCE, CONCRETE WASHOUT PIT, AND INLET CONTROLS HAVE BEEN INSTALLED AND APPROVED BY THE UK ENVIRONMENTAL DEPARTMENT, PROCEED WITH TOPSOIL STRIPPING AND MASS EXCAVATION. TOPSOIL SHALL BE STOCKPILED OFF-SITE.
- THE CONTRACTOR SHALL PHASE CONSTRUCTION TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME, STABILIZE AND COVER WITH GRAVEL OR SEEDING AS QUICKLY AS POSSIBLE. USE ON SITE CONTROLS SUCH AS DIVERSIONS, SUMPS, AND STRAW BALES AS NECESSARY TO PREVENT OFF SITE RUNOFF. EXTRA EFFORT SHOULD BE EXERCISED PRIOR TO WINTER OR RAINY SEASON TO HAVE ALL SITE CONTROLS IN PLACE. DISTURBED AREAS WHERE CONSTRUCTION WILL CEASE FOR MORE THAN 14 DAYS WILL BE STABILIZED WITH EROSION CONTROLS.
- CONTRACTOR SHALL MAINTAIN SITE AFTER ANY RAINFALL EVENT BY CLEANING SILT AND DEBRIS FROM STREETS, YARDS, ETC. AND THE RE-ESTABLISHMENT OF ANY DAMAGED EROSION CONTROL DEVICE OR MEASURE INCLUDING TEMPORARY OR PERMANENT SEEDING.
- CONTRACTOR SHALL INSPECT SITE DAILY AND IMMEDIATELY FOLLOWING A RAINFALL EVENT TO ENSURE THAT EROSION CONTROL DEVICES ARE FUNCTIONING PROPERLY AND, IF NOT, THE CONTRACTOR SHALL TAKE ACTIONS TO REMEDIATE ANY EROSION CONTROLS AT NO ADDITIONAL COST TO THE OWNER.
- ALL WORK, CONSTRUCTION REQUIREMENTS, AND PERFORMANCE STANDARDS SHALL COMPLY WITH LOCAL AND STATE JURISDICTIONS AND/OR STANDARDS.
- TEMPORARY STABILIZATION OF TOPSOIL STOCKPILE AND DISTURBED PORTIONS OF THE SITE SHALL BEGIN WITHIN 14 DAYS ON AREAS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY (FOR 21 DAYS OR MORE) CEASED. TEMPORARY STABILIZATION CAN BE ACCOMPLISHED THROUGH SEEDING RYE (GRAIN) APPLIED AT A RATE OF 120 POUNDS PER ACRE AND/OR STRAW MULCHING AT A RATE OF 4,000 POUNDS OF STRAW PER ACRE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIVE ACTION REQUIRED BY ANY LOCAL, STATE OR FEDERAL AGENCY THAT HAS JURISDICTION FOR SITE EROSION CONTROL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES SUCH AS SILT FENCE, SEDIMENT BASINS, ROCK CHECKS, INLET PROTECTION, ETC AT SUCH TIME THE SITE HAS BECOME STABILIZED AND DEVICES OR CONTROLS ARE NO LONGER NECESSARY. AFFECTED AREAS SHALL BE RETURNED TO THE CONTOURS PER THE GRADING PLAN.
- THIS PLAN REFLECTS THE MINIMUM REQUIRED EROSION CONTROL MEASURES TO STABILIZE THE SITE. ADDITIONAL MEASURES MAY BE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE AT NO COST TO THE OWNER.
- ALL STORM INLETS OR OPEN PIPES SHALL BE FULLY PROTECTED TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM. IF SEDIMENT ENTERS THE SYSTEM, THE CONTRACTOR SHALL FLUSH THE LINES CLEAN TO THE WOU WHERE A VAC TRUCK CAN REMOVE WITHOUT RELEASING DOWNSTREAM. NO SEDIMENT SHALL BE RELEASED DOWNSTREAM. VISUAL INSPECTION BY CAMERA MAY BE REQUESTED TO ENSURE THE SYSTEM IS PROPERLY MAINTAINED AT NO COST TO THE OWNER.
- CONSTRUCTION DUMPSTERS SHALL BE COVERED EACH NIGHT AND WHEN NOT ACTIVELY BEING USED.
- THE CONTRACTOR SHALL POST SIGNAGE OR OTHER NOTICE OF PERMIT COVERAGE AT A SAFE, PUBLICLY ACCESSIBLE LOCATION IN CLOSE PROXIMITY TO THE CONSTRUCTION SITE. THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC ROAD THAT IS NEAREST THE CONSTRUCTION TRAILER. THIS NOTICE (SIGNAGE) MUST INCLUDE THE RPODES PERMIT NUMBER, CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL CONSTRUCTION SITE INFORMATION SUCH AS A COPY OF THE SWPPP. THE SIGNAGE MUST INCLUDE INFORMATION APPRISING THE PUBLIC ON HOW TO CONTACT THE STATE IF STORMWATER POLLUTION IS OBSERVED IN THE DISCHARGE.

**CODED EROSION CONTROL NOTES**

KEY	SYMBOL	DESCRIPTION	DETAIL
1		INLET PROTECTION - PROTECT INLETS UNTIL THEY ARE SUBJECT TO DEMOLITION	A/C101
2		CONCRETE WASHOUT PIT. LOCATE & SIZED AS NEEDED - CONTRACTOR SHALL DISPOSE AND INSTALL NEW WASHOUT ONCE BOX CAPACITY HAS BEEN FILLED. SEE DETAIL FOR ADDITIONAL MAINTENANCE REQUIREMENTS.	B/C101
3		CONSTRUCTION ENTRANCE. EXISTING PAVEMENT MAY BE USED. 20' MINIMUM WIDTH	C/C101
4		SILT FENCE	D/C101
5		CONSTRUCTION FENCE PER UK STANDARDS	-
6		CONSTRUCTION GATE ENTRANCE	-
7		WATTLES	D/C101
8		TEMPORARY CONCRETE SIDEWALK CREATED TO PROVIDE PEDESTRIAN ACCESS. CONNECT TO EXISTING SIDEWALK. 5' WIDE.	-
9		WRAP GRATE COVER WITH NON-WOVEN FILTER FABRIC AND COVER WITH STONE FOR TEMPORARY ROADWAY	-
10		TEMPORARY GRAVEL HAUL ROAD. 20' WIDE.	-
11		STONE RAMP INTO EXCAVATION FOR BASEMENT	-

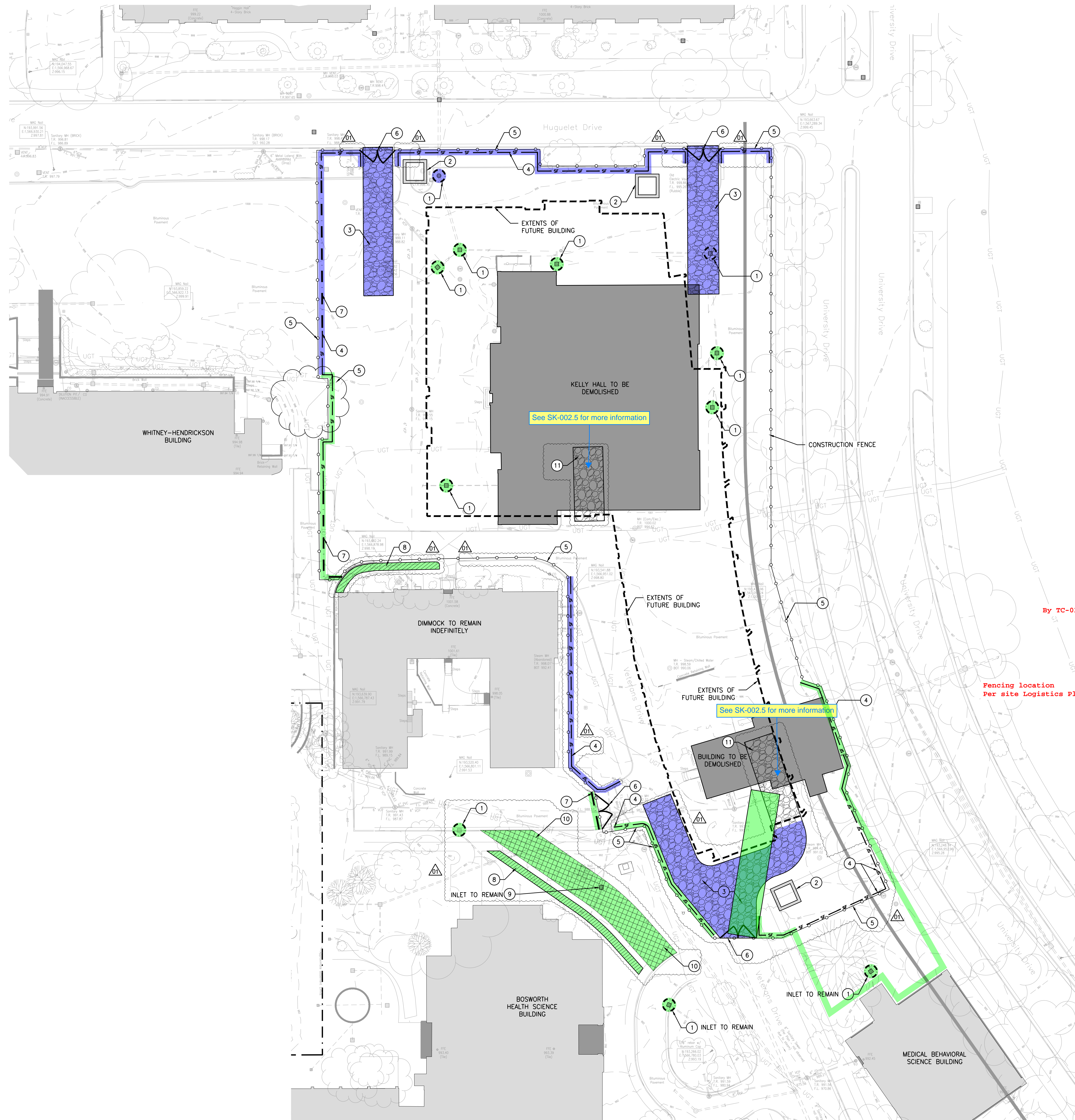
REVISION NOTE

Phase 1 BMPs

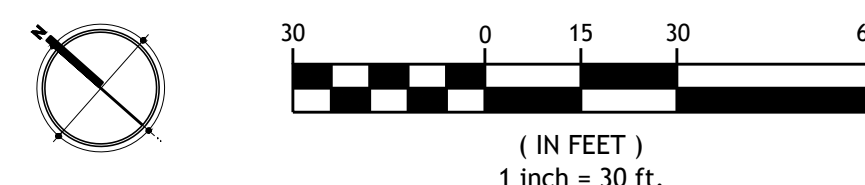
Phase 2 BMPs

By TC-015 →

Fencing location per site Logistics Plan →



Erosion Control Plan



BEFORE YOU DIG CALL KENTUCKY UNDERGROUND (811) TWO (2) WORKING DAYS IN ADVANCE OF DIGGING

**SK-001**

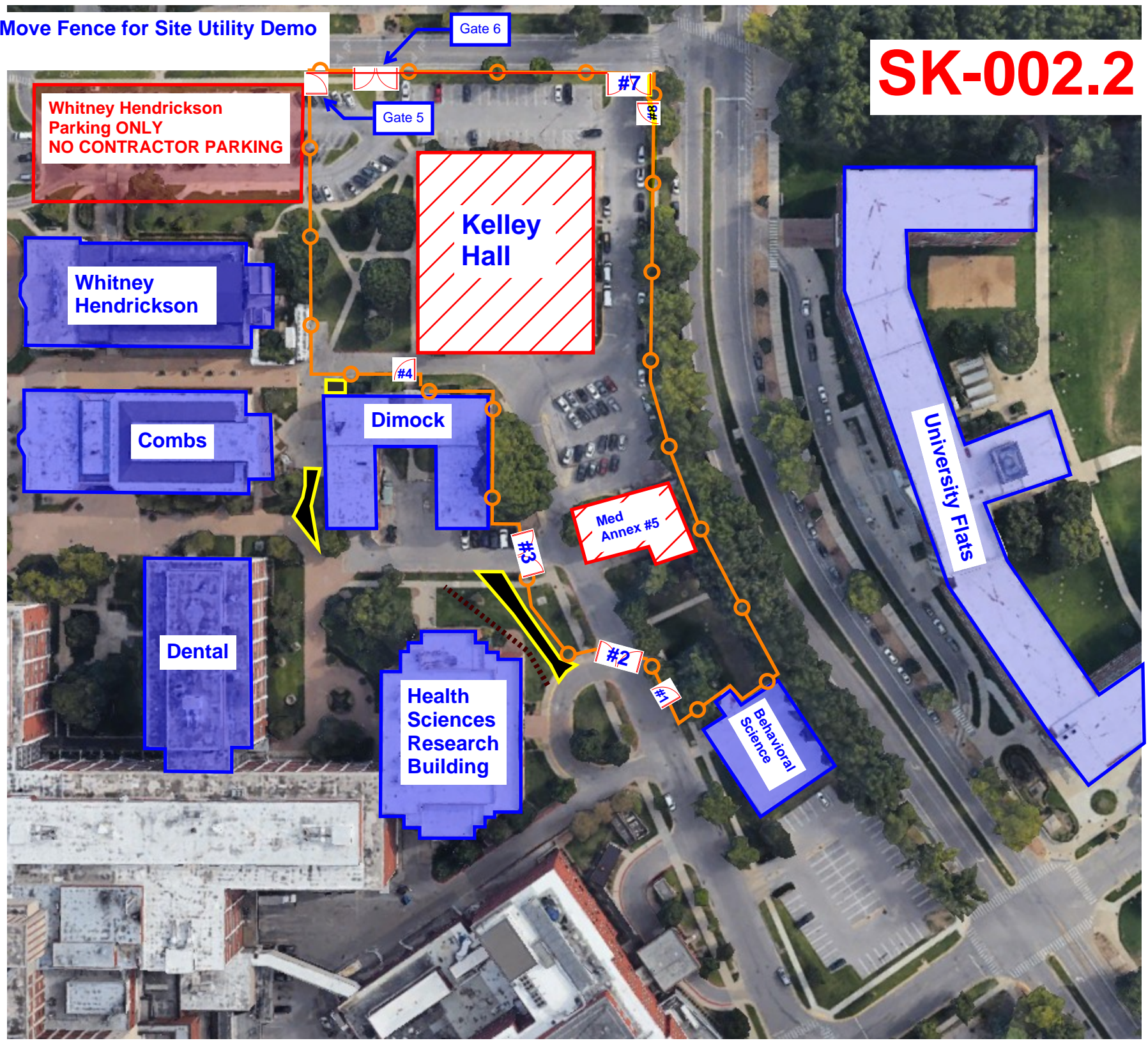
Phase 1: Demo of Kelly and Med Annex #5  
~2/1/24-4/1/24

**SK-002.1**



Phase 2: Move Fence for Site Utility Demo  
~4/1/24

**SK-002.2**





Tent



Guard Shack



Tower Cranes



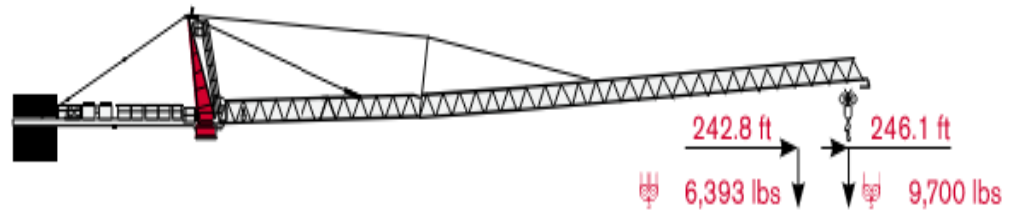
Toilet Trailer



Port-o-lets

# Tower Crane #1

SR WB 102 -160/4F	BG (6,834 lbs)	BG (3,197 lbs)
	9	1

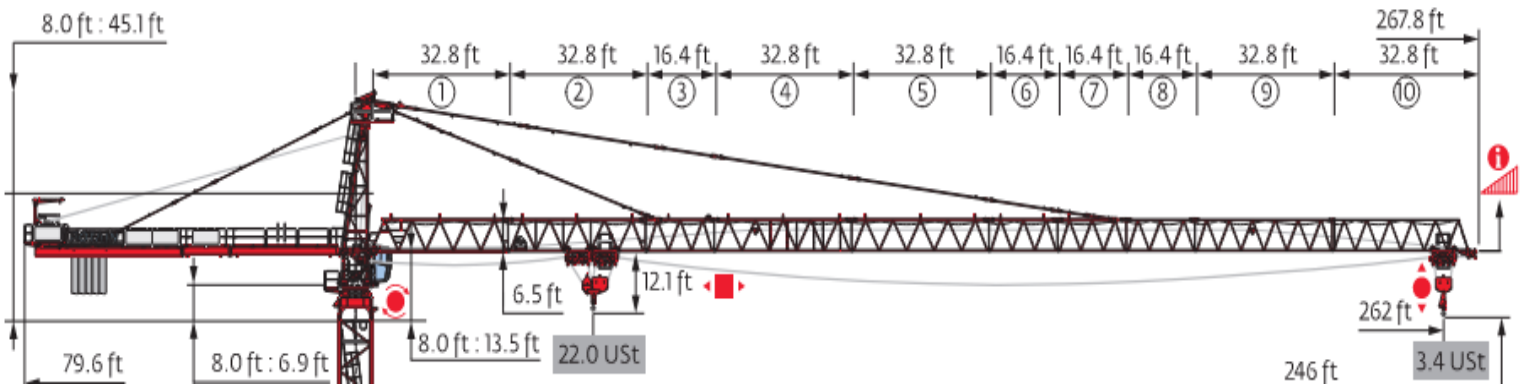


65.6 ft 82 ft 98.4 ft 114.8 ft 131.2 ft 147.6 ft 164.1 ft 180.5 ft 196.9 ft 213.3 ft 229.7 ft 242.8 ft 246.1 ft

35,274 lbs →	87.6 ft	lbs	35,274	35,274	30,865	25,794	22,046	18,960	16,755	14,771	13,228	11,905	10,803	9,700
70,548 lbs →	46.6 ft	lbs	46,297	35,054	27,778	22,487	19,401	16,094	13,669	11,685	10,141	8,598	7,496	6,393

# Tower Crane #2

ASCE 7-10

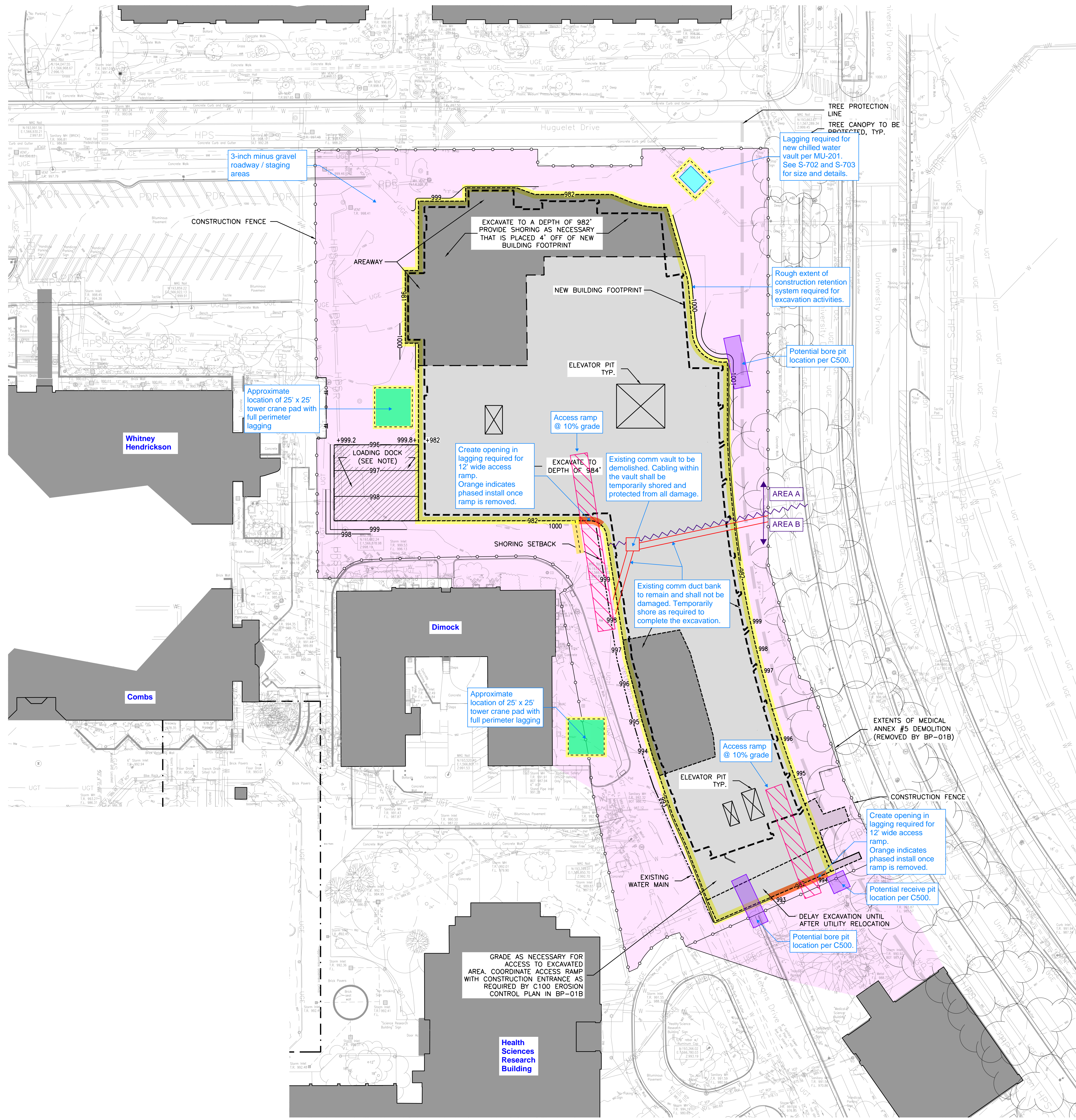


## Load charts



262 ft	12	57	66	72	82	89	98	99	108	115	121	131	148	164	180	197	213	230	246	262	ft
		22.0	18.5	16.4	14	12.7	11.1	11.0	10.3	9.6	8.7	7.5	6.6	5.8	5.2	4.6	4.2	3.7	3.4		USt

**SK-002.4**



Mass Excavation Plan



MASS EXCAVATION NOTES

- ALL CONTOURS INDICATE SUBGRADES WITH SLOPES LEFT AT 1/2:1 TO ACCOMMODATE CONSTRUCTION OF FIRST FLOOR BELOW GRADE (BASEMENT) WALLS. FUTURE BID PACKAGE SHALL INDICATE FINISH GRADES AND INCLUDE FILL UP AGAINST BASEMENT WALLS.
- PRIOR TO CONSTRUCTION OR DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
- ALL ROCK AND SOIL EXCAVATED FOR THE BUILDING AND SHORING SHALL BE HAULED AWAY. THERE IS NO ROOM ON SITE TO STOCKPILE MATERIAL.
- WITHIN THE LOADING DOCK AREA, FAT CLAY AND ELASTIC SILT AS IDENTIFIED IN THE GEOTECH REPORT SHALL BE OVER EXCAVATED TO MINIMUM OF 36" DEPTH BELOW SUBGRADE AND REPLACED WITH COMPACTED LEAN CLAY.
- AREAS WITHIN BUILDING FOOTPRINT WHERE ROCK IS LOWER THAN DESIGNATED ELEVATION OF 982 OR 984, SHALL BE FILLED WITH 4,000 PSI CONCRETE TO SUBGRADE OF FOOTINGS OR TO 36" FROM BOTTOM OF FLOOR SLAB.
- BEFORE STARTING SITE EXCAVATION, CONTRACTOR SHALL STRIP ALL TOPSOIL FROM LIMITS OF MASS EXCAVATION AND STORE AT OFF-SITE LOCATION. CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING TOPSOIL BACK TO THE SITE AND REDISTRIBUTING TOPSOIL IN ALL FINISHED GRADE AREAS, BACK FILLING CURBS, SIDEWALKS, ETC. CONTRACTOR SHALL STOCKPILE ANY/FALL EXCAVATED SOILS OFF-SITE THAT CANNOT BE PLACED IMMEDIATELY IN ENGINEERED FILLING ON SITE. THERE IS NO ROOM ON SITE FOR SOIL STOCKPILING.
- CONTRACTOR SHALL PROVIDE ARCHITECT WITH COMPACTION TESTING FROM AN INDEPENDENT TESTING AGENCY THAT IS PRE-APPROVED BY THE CIVIL ENGINEER AND OWNER.
- ELEVATIONS AND CONTOURS ON THIS PLAN ARE REFERENCED TO MEAN SEA LEVEL DATUM.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE QUANTITY OF ROCK EXCAVATION NECESSARY FOR MASS GRADING OR TRENCHING. ALL EXCAVATION IS UNCLASSIFIED. THERE WILL BE NO EXTRA PAYMENT FOR ROCK EXCAVATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXCAVATION QUANTITIES.
- CONTRACTOR IS RESPONSIBLE FOR DESIGN OF SHORING AND UNDERPINNING STRUCTURES AND UTILITIES AS REQUIRED. ANTICIPATE THAT SHORING WILL BE REQUIRED AROUND THE ENTIRE PERIMETER OF EXCAVATION FOR THE BUILDING. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF KENTUCKY.
- CONTRACTOR SHALL DIRECT SURFACE RUNOFF AROUND AND AWAY FROM EXCAVATED AREA. DEWATERING PUMPS SHALL BE PROVIDED AT ALL TIMES AND WATER SHALL BE FILTERED PRIOR TO DISCHARGE. BOX OF SUSPENDED SOLIDS MUST BE REMOVED.
- TREE PROTECTION ZONES SHALL BE PROTECTED DURING CONSTRUCTION. AREA WITHIN THE DRIP LINE OF TREES SHALL NOT BE DISTURBED EXCEPT FOR SIDEWALK REMOVAL. WHERE TREES/SHRUBS ARE DESIGNATED FOR REMOVAL, ALL VEGETATION, ROOTS, ETC. SHALL BE REMOVED TO A MINIMUM DEPTH OF THREE FEET BELOW FINISHED GRADE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE FOLIAGE, BRANCHES OR ROOTS OF EXISTING TREES TO BE SAVED. NO BURNING ON SITE.

MASS EXCAVATION LEGEND

- CONSTRUCTION FENCE - UK STANDARD (PROVIDED BY BP-01A & BP-01B)
- NEW BUILDING FOOTPRINT
- EXCAVATION BOTTOM - 982'-984' AS NOTED ON PLAN. PROVIDE SHORING FOR SOIL RETENTION ABOVE ROCK EXCAVATION AS NECESSARY. REFER TO C600 AND C601 SITE DRAINAGE PLANS FOR ADDITIONAL EXCAVATION FOR DEEP MANHOLES
- SHORING SETBACK FROM ROCK EXCAVATION TO PERMIT UTILITY INSTALLATION. USE EXTREME CAUTION TO EXISTING WATER MAIN
- TREE PROTECTION ZONE - TREE CANOPY OVERHANGING CONSTRUCTION FENCE MUST BE PROTECTED AND MAY NOT BE TRIMMED EXCEPT BY AUTHORIZED ARBORIST
- ELEVATOR PIT - NOT INCLUDED IN INITIAL EXCAVATION
- EXCAVATION TO 982' - EXCAVATE TO 982' AND EVENLY PLACE 4" DEPTH OF #2 STONE. THEN EVENLY PLACE 2" DEPTH OF #57 STONE.
- EXCAVATION TO 984' - EXCAVATE TO 984' AND EVENLY PLACE 4" DEPTH OF #2 STONE. THEN EVENLY PLACE 2" DEPTH OF #57 STONE.
- LOADING DOCK AREA - EXCAVATION SHALL BE DELAYED UNTIL AFTER BUILDING IS ERECTED AS DIRECTED BY CONSTRUCTION MANAGER

- RETENTION SYSTEM
- RETENTION SYSTEM (AFTER RAMP REMOVAL)
- ACCESS RAMP
- GRAVEL ROADWAY / STAGING (67,250 sf)
- TOWER CRANE PADS
- BORE / RECEIVE PIT

**JRA**  
architects

3225 Summit Square Place, Suite 200  
Lexington, Kentucky 40509  
859.252.6781



RESERVED FOR AHJ STAMP

**CARMAN**  
LANDSCAPE ARCHITECTURE  
URBAN PLANNING  
CIVIL ENGINEERING

BP-02  
**MICHAEL D RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1149 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



CIVIL

PROJECT 202170  
DATE 02.19.24

REVISIONS

No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PROPER WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT REGARDING ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

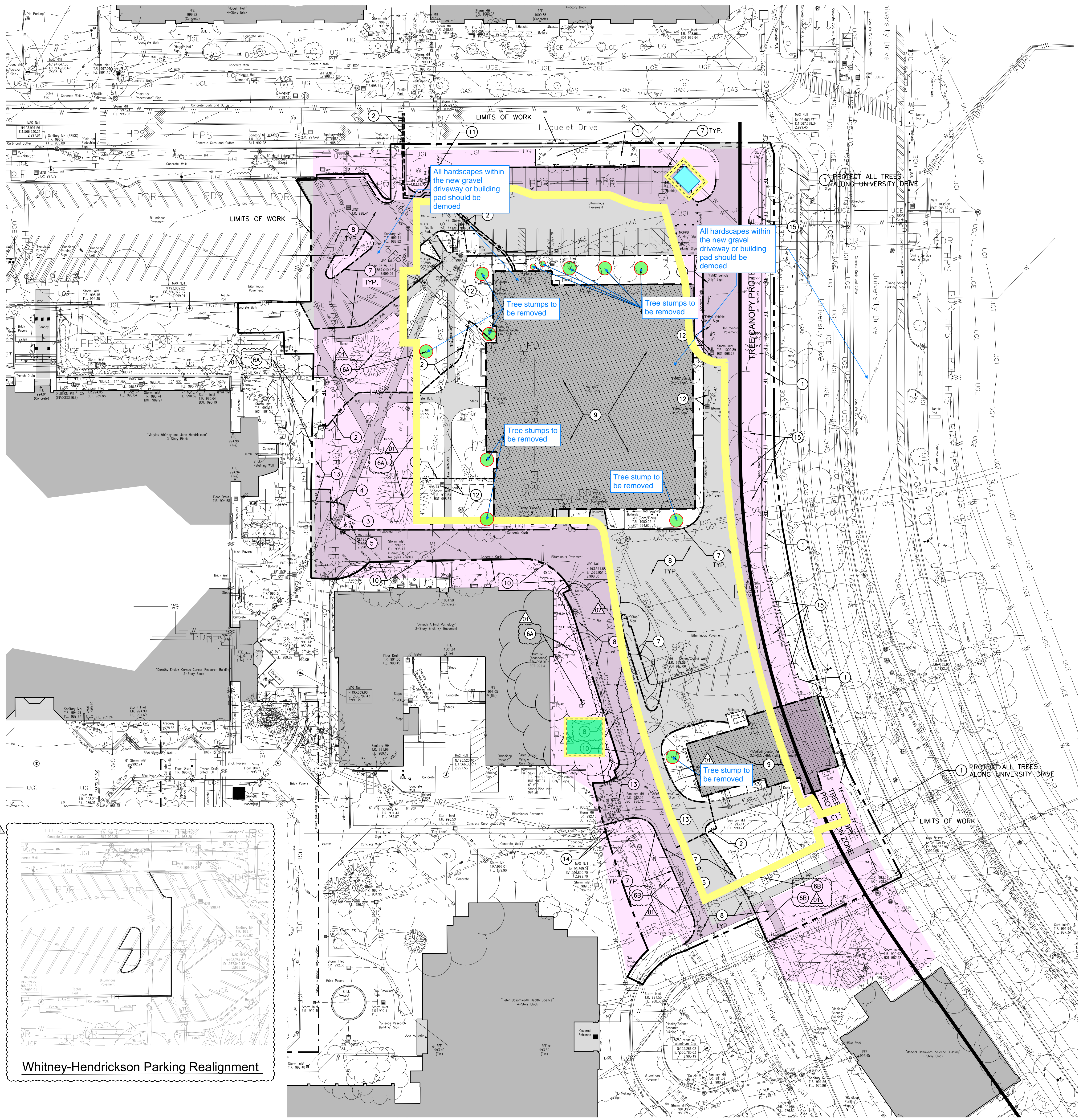
MASS EXCAVATION PLAN

**C300**

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**SK-002.5**



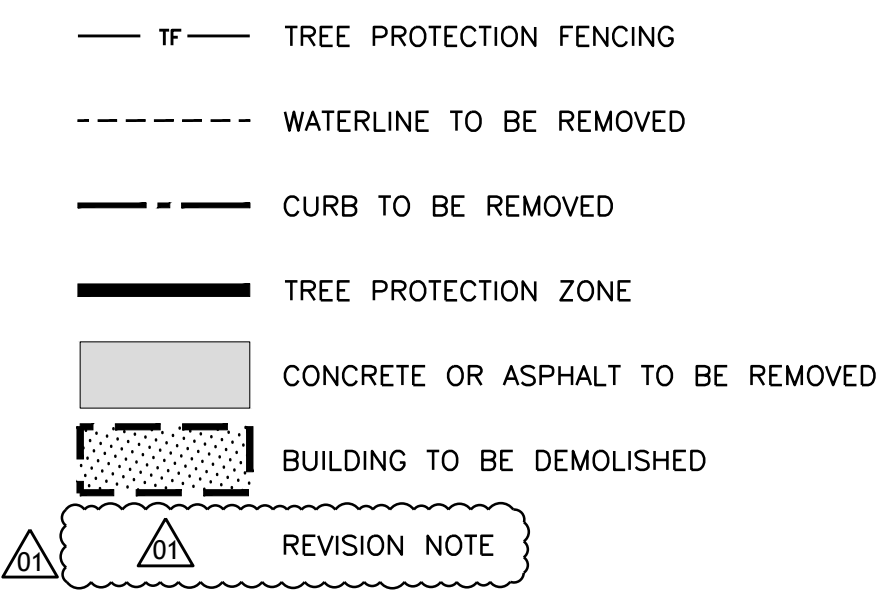
**SITE DEMOLITION NOTES**

1. PROVIDE UK STANDARD TREE PROTECTION FENCING FOR ALL EXISTING TREES THAT ARE NOT DESIGNATED TO BE REMOVED WITHIN THE CONSTRUCTION LIMITS. EXTREME CAUTION IS TO BE USED WITH EXISTING TREES ALONG UNIVERSITY DRIVE. A TREE CANOPY PROTECTION ZONE IS DELINEATED FOR THE TREES ALONG UNIVERSITY DRIVE. EXISTING PAVEMENT WITHIN THIS ZONE SHALL REMAIN AS A WORKING SURFACE DURING BUILDING CONSTRUCTION. IT WILL BE REMOVED AT COMPLETION OF BUILDING FACADE, AT WHICH TIME ADDITIONAL TREE PRESERVATION MEASURES WILL COMMENCE WITH NEW SITE WORK.
2. THE EXISTING FEATURES SHOWN ARE A COMPILATION OF DATA AS OBTAINED BY ENDRIS ENGINEERING. CARMAN MAKES NO ASSURANCES REGARDING THE ACCURACY OF DATA SUPPLIED BY OTHERS OR SHOWN ON THE SUBSEQUENT DRAWINGS. THE SOURCE OF THE SITE SURVEY IS: ENDRIS ENGINEERING.
3. ALL EXISTING SITE FEATURES ARE SHOWN AS ACCURATELY AS REASONABLY POSSIBLE AND BELIEVED TO BE CORRECT. SHOULD THE CONTRACTOR FIND ANY DISCREPANCIES IN THE ALIGNMENT OR LOCATION OF ANY FEATURE, THE LANDSCAPE ARCHITECT/CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY AND NECESSARY ADJUSTMENTS WILL BE MADE IN THE FIELD.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE PROJECT LIMITS FOR ANY SITE DEMOLITION AND SHALL BE RESPONSIBLE FOR MAINTAINING ANY AND ALL WORK WITHIN THE LIMITS OF THE WORK AS DESIGNATED. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ENCROACHMENT BEYOND THE LIMITS AND SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS, PERMISSIONS, EASEMENTS, E.T.C. TO UTILIZE AREAS BEYOND THE PROJECT LIMITS.
5. CONTRACTOR SHALL LOCATE ALL UNDERGROUND OR OVERHEAD UTILITIES PRIOR TO DEMOLITION WORK EITHER BY UTILIZATION OF B.U.D. OR A 3RD PARTY UTILITY LOCATE COMPANY. COSTS FOR ESTABLISHING THE LOCATION OF EXISTING UTILITIES SHALL BE THE COST OF THE CONTRACTOR.
6. CONTRACTOR SHALL OBTAIN DEMOLITION PERMITS FROM ANY AUTHORITY HAVING LOCAL JURISDICTION INCLUDING LOCAL, STATE OR FEDERAL AGENCIES, IF NECESSARY, AND PAY ALL ASSOCIATED FEES INCLUDING DISPOSITION FEES OR COSTS.
7. THE CONTRACTOR SHALL ESTABLISH TRAFFIC CONTROL AND SIGNS AS REQUIRED BY THE MANAGER OF UNIFORM TRAFFIC CONTROL DEVICES. PROVIDE TEMPORARY BARRICADES, TRAFFIC BARRELS, AND FLAGGERS AS NECESSARY FOR CREW AND MOTORIST SAFETY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY STREET CLOSURES, DETOURS, ETC. WITH AUTHORITIES HAVING JURISDICTION AND GOVERNING AGENCIES OF STREETS, PARKING AREAS OR ROADS.
8. IDENTIFICATION OF MATERIAL TO BE REMOVED/DEMOLISHED IS PROVIDED AS A CONVENIENCE TO THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR OBSERVING SITE AND PLANS TO COORDINATE DEMOLITION WITH ALL PROPOSED WORK. FAILURE TO IDENTIFY A MATERIAL REQUIRING REMOVAL/DEMOLITION IN ORDER FOR NEW WORK TO BE COMPLETED DOES NOT RELIEVE THE CONTRACTOR OF BEING RESPONSIBLE FOR PERFORMING THE NECESSARY WORK.
9. ASPHALT AND/OR CONCRETE REMOVED AS A RESULT OF UTILITY/STORM DEMOLITION THAT IS OUTSIDE OF PROJECT LIMITS IS TO BE RESTORED TO MATCH THE EXISTING SURFACE PRIOR TO SURFACE DEMOLITION.
10. DURING CONSTRUCTION, THE WORK AREA SHALL BE KEPT CLEAR OF DEBRIS. ALL DEMOLISHED MATERIALS NOT DESIGNATED TO BE TURNED OVER TO THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. CONTRACTOR SHALL PAY ALL HAULING, LANDFILL EXPENSES AND OBTAIN ANY NECESSARY PERMITS TO DO SO.
11. PERIMETER CONSTRUCTION LIMITS FENCE SHALL CONSIST UK STANDARD CONSTRUCTION FENCING. LIMITS TO BE DETERMINED BY CONSTRUCTION MANAGER.
12. CONTRACTOR TO PROTECT EXISTING TREES OUTSIDE OF CONSTRUCTION LIMITS. NO MATERIAL IS TO BE STORED WITHIN A TREE DRIP LINE.
13. ALL EXISTING SITE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO PAVING, CURBING, SIDEWALKS, UTILITIES, AND LANDSCAPING SCHEDULED TO REMAIN SHALL BE PROTECTED OR REPLACED IF DAMAGED.
14. SEE SITE UTILITY DRAWINGS FOR RELOCATION OF UTILITY FACILITIES.
15. CONTRACTOR RESPONSIBLE FOR OBSERVATION OF SITE PRIOR TO BIDDING TO DETERMINE QUALITY, QUANTITY, AND VALUE OF ITEMS TO BE DEMOLISHED AND REMOVED.
16. COORDINATE UTILITY DEMOLITION WITH CORRESPONDING MEP DRAWINGS, SITE UTILITY PLAN AND APPROPRIATE UTILITY COMPANY.
17. EXISTING AGGREGATE MATERIAL SHALL BE REMOVED AS NECESSARY TO ACCOMMODATE NEW ASPHALT. EXISTING AGGREGATE MAY BE REUSED IF CLEAN AND FREE OF SOIL AND APPROVED BY OWNER OR LANDSCAPE ARCHITECT/CIVIL ENGINEER.
21. ALL STORM SEWER LOCATED WITHIN LIMITS OF WORK SHALL BE REMOVED, NOT ABANDONED IN PLACE UNLESS NOTED AS OTHERWISE. DEMOLITION OF FACILITIES THAT SERVE OTHER ADJACENT OFF-SITE AREAS OR BUILDINGS WILL NEED TO BE PHASED IN ORDER TO KEEP THEM ON-LINE UNTIL REPLACEMENT FACILITIES ARE CONSTRUCTED. FACILITIES THAT ARE NECESSARY TO DETERMINE THE SITE DURING CONSTRUCTION SHALL REMAIN UNTIL NEW FACILITIES ARE CONSTRUCTED.
22. SEE MEP DEMOLITION DRAWINGS FOR SANITARY SEWER REMOVAL/RELOCATION.
23. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FULLY PROTECT ALL STRUCTURES SCHEDULED TO REMAIN AND NOT BE DEMOLISHED OR TO PROTECT UNTIL SUCH TIME THAT STRUCTURE IS SCHEDULED TO BE DEMOLISHED. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGED STRUCTURES OR ENVIRONMENTAL REPORTS FOR ACKNOWLEDGING AND SPECIFYING SHORING THAT MAY BE REQUIRED DURING SITE DEMOLITION SO THAT ADJACENT AREAS ARE PROTECTED FROM DAMAGE, COLLAPSE, ETC. SHOULD THE CONTRACTOR DETERMINE THAT SHORING IS REQUIRED FOR ADJACENT AREA PROTECTION OR TO PREVENT ENCROACHMENT OF DEMOLITION OUTSIDE OF PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING PROPER SHORING MEANS, METHODS AND DESIGN PER LOCAL REGULATIONS OR PER REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION INCLUDING THE SHORING TYPE AND IF NECESSARY THE PREPARATION OF SHORING PLANS BY A LICENSED STRUCTURAL ENGINEER PER OSHA REQUIREMENTS.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ANY OVERHEAD UTILITY LINES THAT MAY CONFLICT WITH ANY ASPECT OF THE SITE DEMOLITION AND SHALL BE RESPONSIBLE FOR SAFE OPERATION OF EQUIPMENT AND PERSONNEL THAT MAY CONFLICT WITH ANY OVERHEAD UTILITY SERVICES.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ANY LOCAL NOISE ORDINANCES OR UK REQUIREMENTS THAT MAY RESTRICT THE TYPE OF DEMOLITION EQUIPMENT OR TIMES OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXTENT, IF ANY, OF LOCAL NOISE ORDINANCES ASSOCIATED WITH CONSTRUCTION OR DEMOLITION ACTIVITIES.
29. SHOULD THE SITE DEMOLITION REQUIRE ANY EARTH EXCAVATION AND SHOULD THE PROJECT REQUIRE THE OBSERVATIONS OF A CULTURAL RESOURCE OR ARCHAEOLOGICAL CONSULTANT, THE CONTRACTOR SHALL FULLY COOPERATE WITH THE OWNER/CONSULTANT TO ALLOW THE CONSULTANT ACCESS TO ANY EXCAVATIONS TO DETERMINE IF THERE ARE ANY PRE-HISTORICAL OR HISTORICAL FINDINGS THAT NEED TO BE DOCUMENTED OR PRESERVED.
30. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL UTILITIES THAT ARE OR MAY BE CONNECTED TO THE DEMOLISHED FACILITIES ARE DISCONNECTED BY CONTACTING ALL APPLICABLE UTILITY COMPANIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ANY DISCONNECT COST ASSOCIATED WITH EACH AND ALL UTILITIES THAT MAY SERVE THE PROPERTY OR FACILITY THAT IS BEING DEMOLISHED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR DETERMINING THESE COSTS DURING THE BIDDING PHASE AND SHALL INCLUDE THESE DISCONNECT COSTS IN THEIR COSTS SO THE OWNER WILL NOT INCUR COSTS AT A LATER DATE.

**CODED SITE DEMOLITION NOTES**

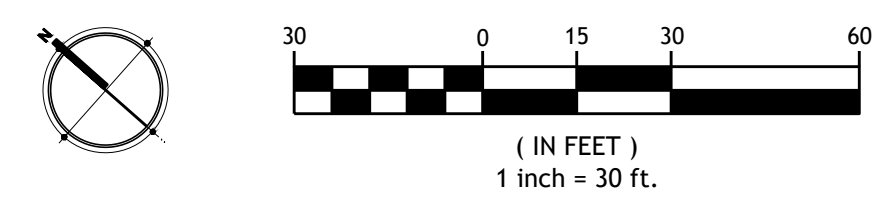
KEY	DESCRIPTION
1	PROTECT EXISTING TREE. TREE PROTECTION FENCE TO BE UTILIZED.
2	REMOVE EXISTING WATERLINE
3	REMOVE FIRE DEPARTMENT CONNECTION FOR WHITNEY-HENDRICKSON AFTER NEW FIRE DEPARTMENT CONNECTION IS OPERATIONAL
4	REMOVE EXISTING 6" FIRE LINE AFTER NEW FIRE DEPARTMENT CONNECTION IS OPERATIONAL
5	REMOVE FIRE HYDRANT AND WATER VALVE AFTER NEW FIRE HYDRANT IS OPERATIONAL
6A	GRIND STUMP AND REMOVE ALL DELETERIOUS ROOTS
6B	REMOVE EXISTING TREE, GRIND STUMP AND REMOVE ALL DELETERIOUS ROOTS
7	REMOVE CURB
8	CONCRETE OR ASPHALT PAVEMENT TO BE REMOVED. REMOVE ALL BASE MATERIALS ASSOCIATED WITH PAVEMENT
9	BUILDING TO BE DEMOLISHED, INCLUDING FOUNDATIONS AND ALL ASSOCIATED WALLS/STRUCTURES
10	CURB TO BE PROTECTED
11	PLUG STORM WATER PIPE TO PREVENT DOWNSTREAM FLOW.
12	REMOVE STORM WATER PIPE OR STRUCTURE
13	PROTECT EXISTING WATERLINE
14	PROTECT EXISTING STORM UTILITY
15	MAINTAIN ASPHALT AND CURB WITHIN TREE CANOPY PROTECTION ZONE UNTIL SUCH TIME THAT THE CONSTRUCTION MANAGER DETERMINES THAT IT SHALL BE REMOVED. SEE SITE DEMOLITION NOTE #1 THIS SHEET

**SITE DEMOLITION LEGEND**

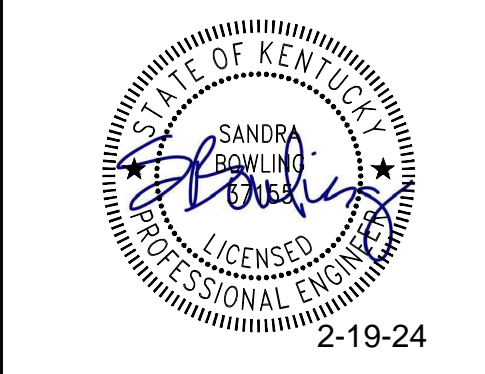


Whitney-Hendrickson Parking Realignment

Site Demolition Plan



3225 Summit Square Place, Suite 200  
Lexington, Kentucky 40509  
859.252.6781

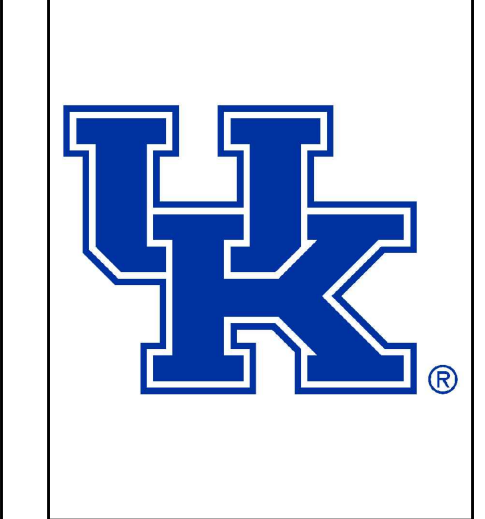


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**CARMAN**  
LANDSCAPE ARCHITECTURE  
URBAN PLANNING  
CIVIL ENGINEERING

**BP-01A & BP-01B**

**UNIVERSITY OF KENTUCKY  
HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**CIVIL**

PROJECT	202170	
DATE	10.20.23	
<b>REVISIONS</b>		
No.	Description	Date
1	Addendum 1	01.18.24
2	BP-02 Modifications	02.19.24

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**SITE DEMOLITION PLAN**

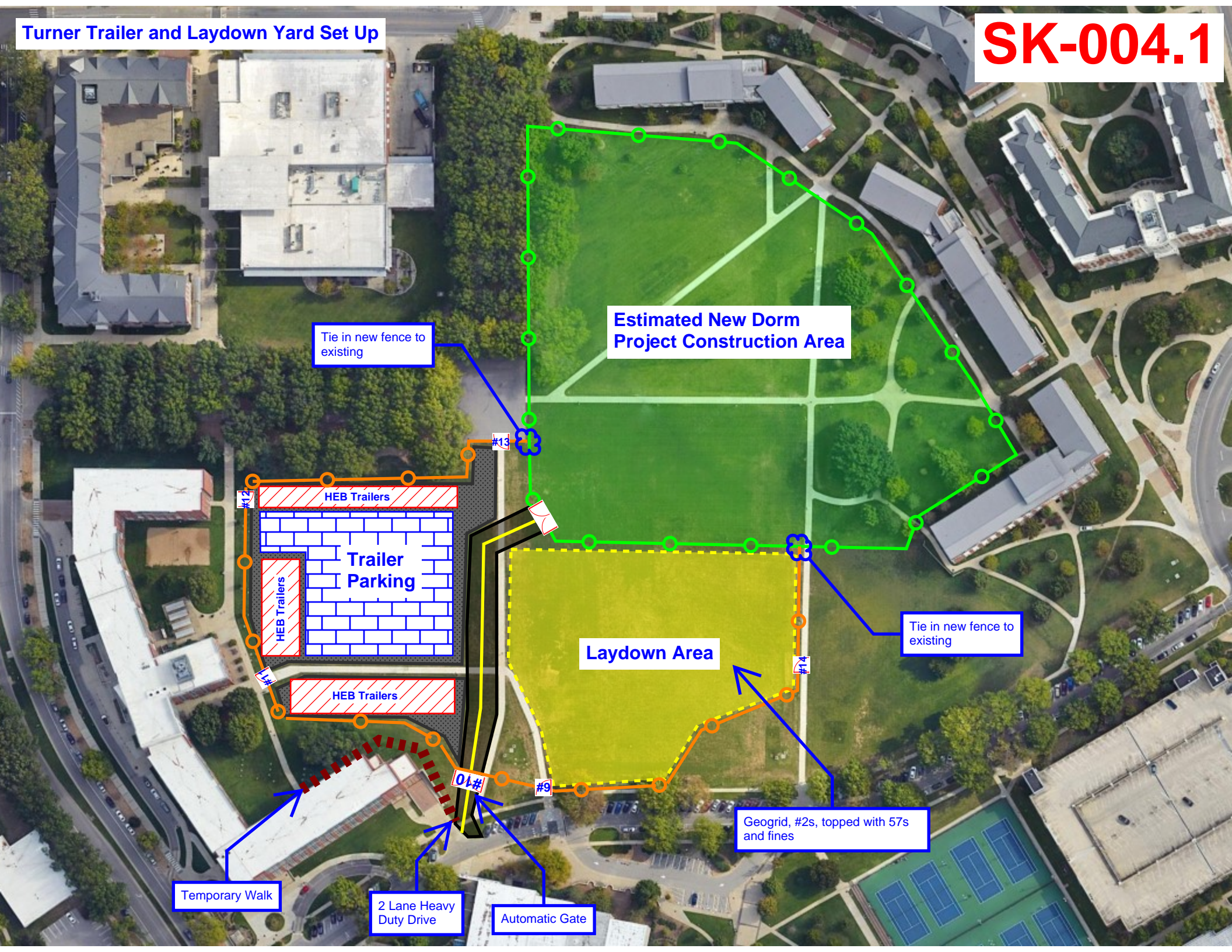
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**SK-002.6**





Estimated New Dorm Project Construction Area

Tie in new fence to existing

HEB Trailers  
Trailer Parking  
HEB Trailers  
HEB Trailers

Laydown Area

Tie in new fence to existing

Geogrid, #2s, topped with 57s and fines

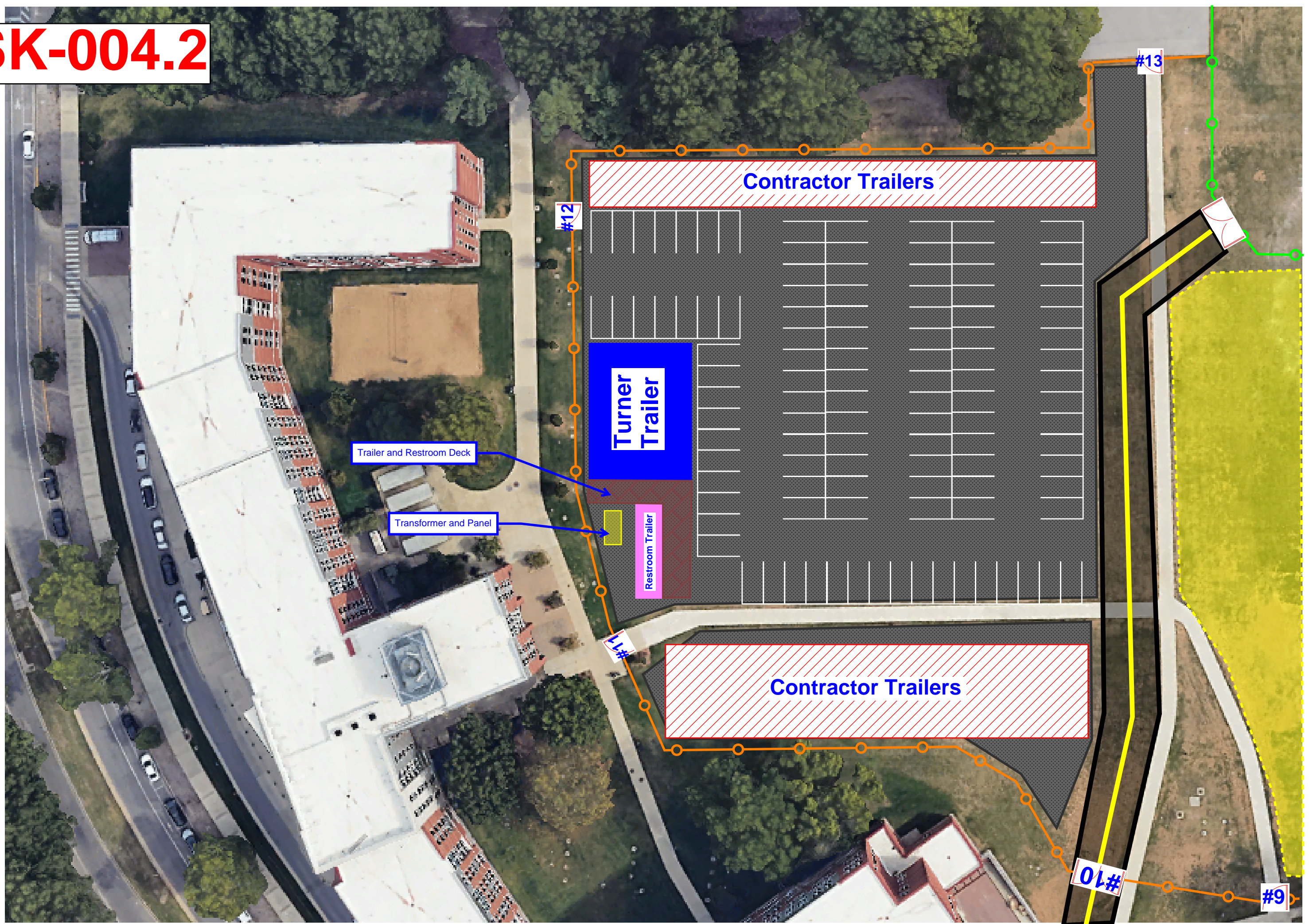
Temporary Walk

2 Lane Heavy Duty Drive

Automatic Gate

#13  
#12  
#11  
#10  
#9  
#1

# SK-004.2



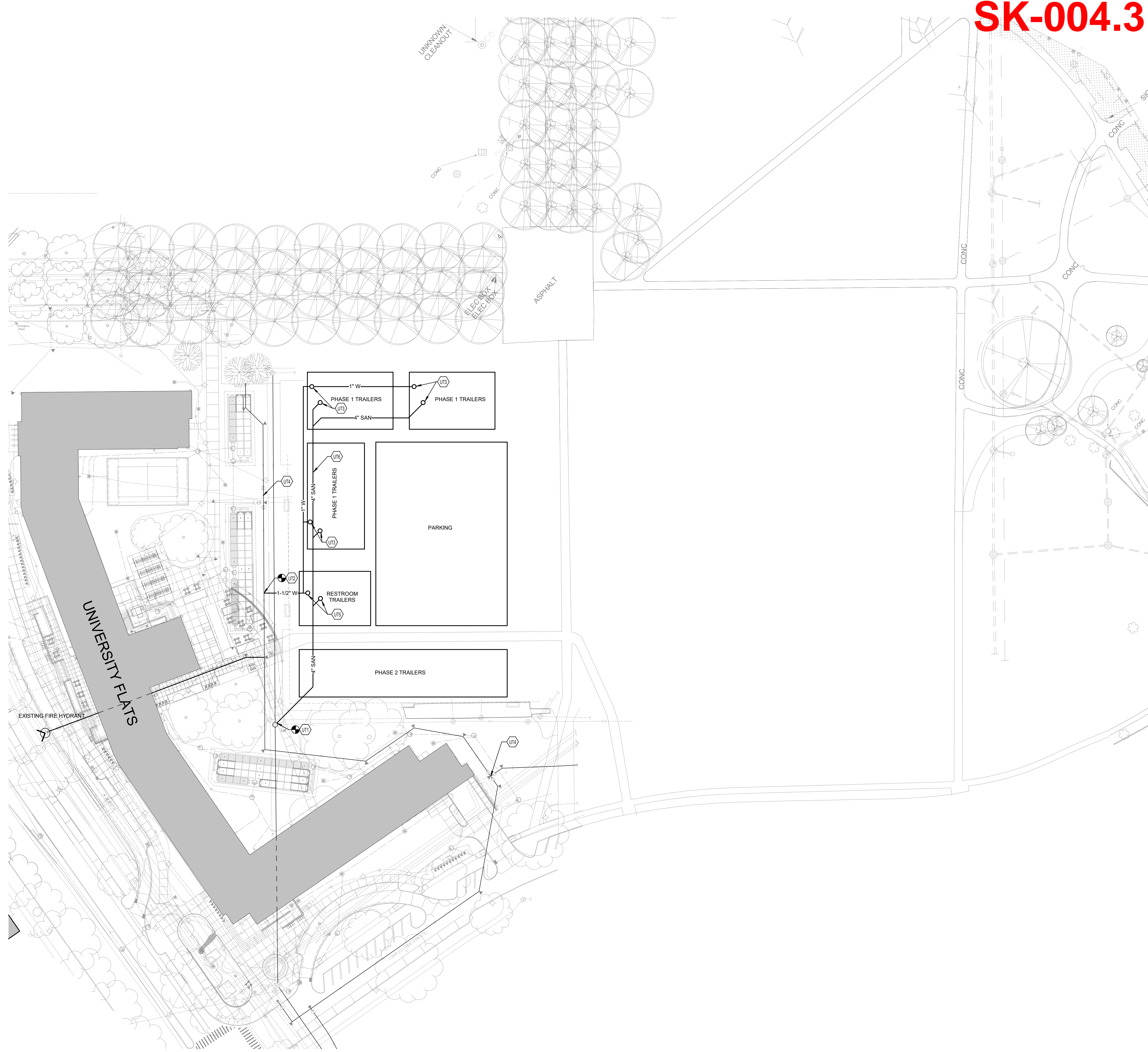
# SK-004.3

### MECHANICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
- B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, ETC. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.
- C FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
- D WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
- E PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY. THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
- F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY. (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES.
- G CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES.
- H COORDINATE ELEVATION AND LOCATION OF ALL PIPING ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTINGS AS REQUIRED.
- I THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.
- J THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
- K THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITIES UNEARTHED DURING CONSTRUCTION.
- M IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT.
- N TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS. PAVEMENT, ASPHALT, AND OTHER SURFACE WORK SHALL BE PER CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS.
- O THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RINGS AND COVERS AFFECTED BY THIS PROJECT AS NECESSARY TO BE FLUSH WITH NEW GRADE.
- P CONTRACTOR SHALL COORDINATE RESPONSIBILITIES WITH CONSTRUCTION MANAGER. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
- Q THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND SIZING OF ALL EXPANSION LOOPS PER PIPING MANUFACTURER'S REQUIREMENTS.
- R REFER TO ARCHITECT'S AND CONSTRUCTION MANAGER'S PHASING PLAN FOR CONSTRUCTION PHASING REQUIREMENTS.
- S ALL SITE WORK SHALL BE COORDINATED WITH UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION (PPD). ALL OUTAGES SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVANCE.

### TAGGED NOTES

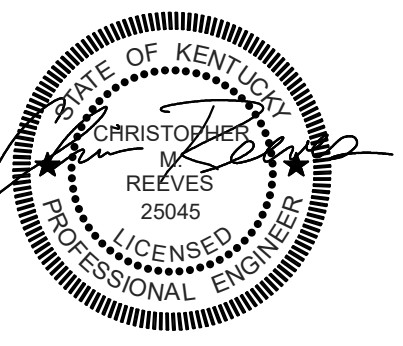
- UT1 CONNECT TEMPORARY TRAILER WASTE LINE TO EXISTING SANITARY MANHOLE. PRIOR TO TIE IN, THE CONTRACTOR SHALL VERIFY EXISTING MANHOLE DEPTH. MANHOLE IS LOCATED IN SIDEWALK. PATCH AND REPAIR AS NECESSARY.
- UT2 CONNECT TEMPORARY TRAILER WATER LINE TO EXISTING WATER MAIN. PROVIDE SHUT OFF VALVE AT CONNECTION.
- UT3 PROVIDE CONNECTION TO JOBSITE TRAILER. INSTALL 1" WATER LINE AND 4" SANITARY TO TUBBED OUT CONNECTION POINTS. INSULATE ALL EXPOSED PIPING. PROVIDE ISOLATION VALVE ON WATER LINE.
- UT4 TO MAKE WATER LINE CONNECTION, AN OUTAGE WILL BE REQUIRED THAT WILL SHUT OFF ONE FIRE HYDRANT. COORDINATE OUTAGE WITH THE UNIVERSITY. VALVES ARE IN PLACE TO ISOLATE THIS SECTION OF PIPE.
- UT5 PROVIDE 1-1/2" WATER LINE AND 4" SANITARY TO THE JOBSITE RESTROOM TRAILER. INSULATE ALL EXPOSED PIPING.
- UT6 PIPING TO BE A MINIMUM OF 18" BELOW GRADE AND SLOPE 1/8" PER FOOT TOWARD MANHOLE AT MINIMUM.



**1 TRAILER UTILITY PLAN**  
 SCALE: 1" = 40'-0"  
 0 20' 40' 80' 120' 160'



3225 Summit Square Place, Suite 300  
 Lexington, Kentucky 40509  
 859.252.6781



RESERVED FOR AHJ STAMP



BP-02

**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
 UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**MECHANICAL**

PROJECT XKSM21  
 DATE 2/29/2024

REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT IN WHOLE OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSMIT THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**TURNER JOBSITE TRAILER UTILITIES**

**MU-100**

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**BEFORE YOU DIG**  
 THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BU" (BEFORE YOU DIG) AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BU" TO OBTAIN AN AUTHORIZATION NUMBER.



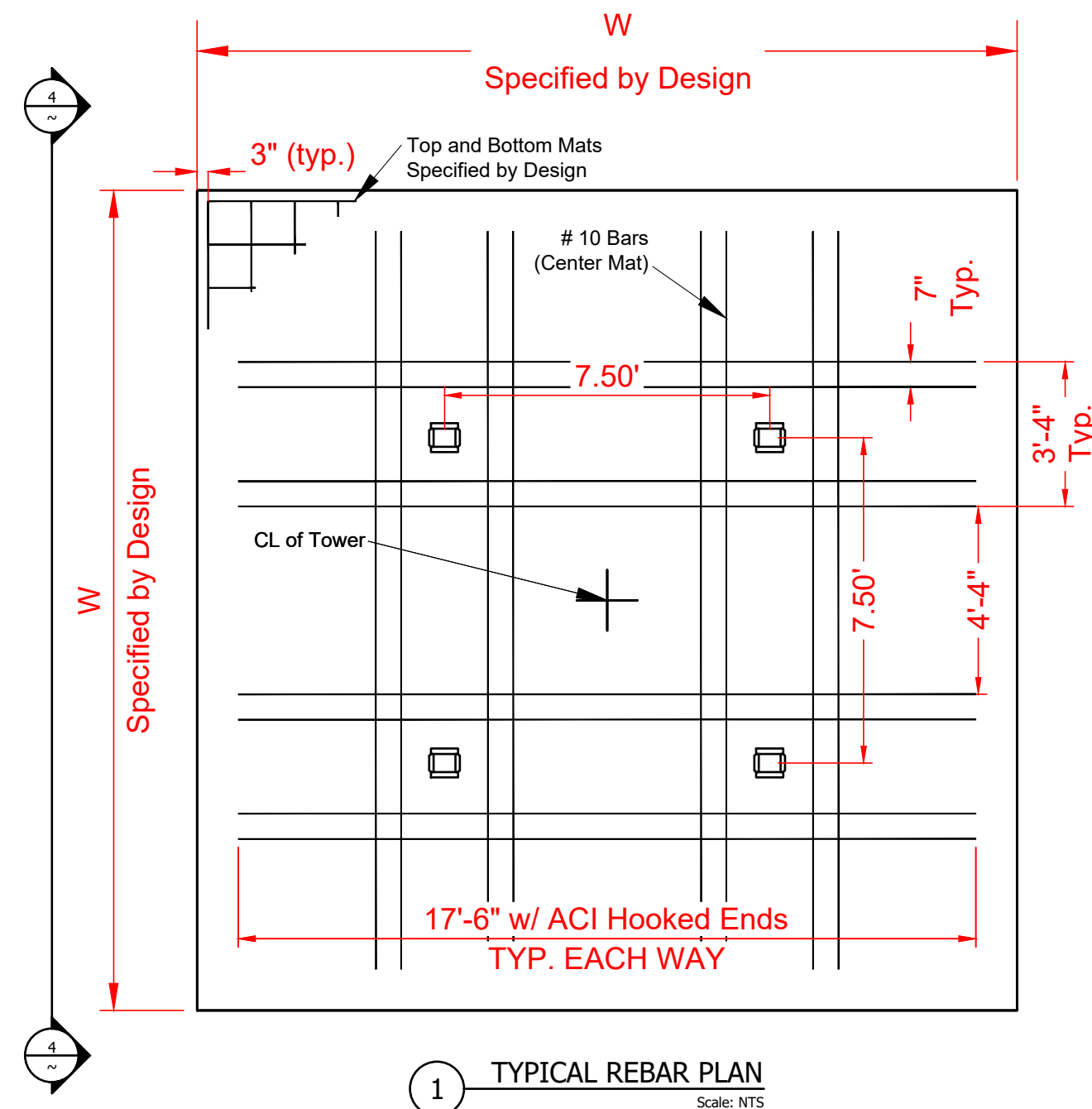
# SK-005.2

FOUNDATION REACTION FORCES			
Tower Crane	MD485B.20	Anchor Stool	P800US
Jb Length (ft)	all available lengths	Base Mast Section	K800
Hook Height (ft)	225.4	Mast Leg Spacing	7.50 ft
IN SERVICE CASE		OUT OF SERVICE CASE	
Overturning Moment	Mo = 3,976 ft-kips	Overturning Moment	Mo = 7,859 ft-kips
Vertical Load	V = 401 kips	Vertical Load	V = 345 kips
Horizontal Load	H = 19 kips	Horizontal Load	H = 70 kips
Slewing Moment	Ms = 349 ft-kips	Slewing Moment	Ms = 0 ft-kips
Max. Axial Force	R1 = 475 kips	Max. Axial Force	R1 = 827 kips
Max. Uplift Force	R2 = 275 kips	Max. Uplift Force	R2 = 655 kips
Corner Force	R3 = 100 kips	Corner Force	R3 = 86 kips
REACTIONS DURING ASSEMBLY CASE		WIND FROM THE SIDE (62 MPH) CASE	
Overturning Moment	Mo = 4,693 ft-kips	Overturning Moment	Mo = 6,839 ft-kips
Vertical Load	V = 251 kips	Vertical Load	V = 345 kips
Horizontal Load	H = 13 kips	Horizontal Load	H = 50 kips
Slewing Moment	Ms = 349 ft-kips	Slewing Moment	Ms = 0 ft-kips
Max. Axial Force	R1 = 505 kips	Max. Axial Force	R1 = 731 kips
Max. Uplift Force	R2 = 380 kips	Max. Uplift Force	R2 = 559 kips
Corner Force	R3 = 63 kips	Corner Force	R3 = 86 kips

### Reaction Force Notes:

1. Zero values indicate information is not available.
2. The foundation reactions shown are service loads applied to the foundation for the freestanding condition.

The foundation design shall be performed by a licensed professional engineer familiar with tower cranes. A copy of the signed and sealed design shall be provided for Maxim's records.



1 TYPICAL REBAR PLAN  
Scale: NTS

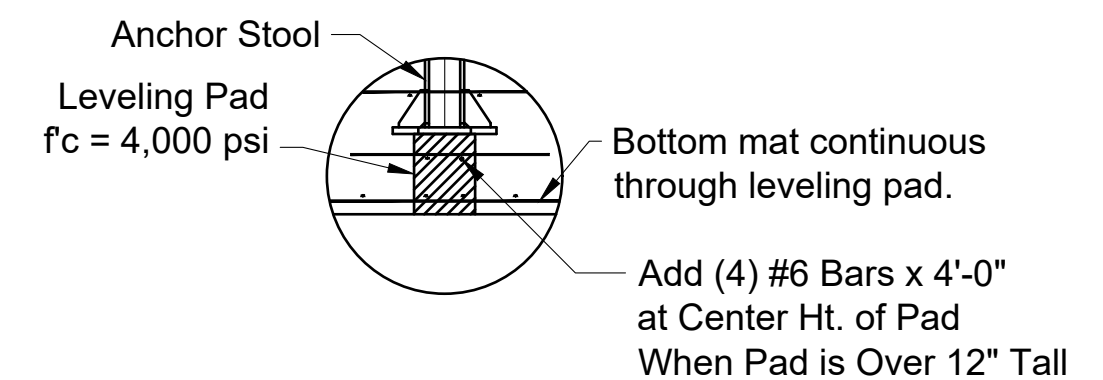
# Potain MD485 Crane 2

### Notes:

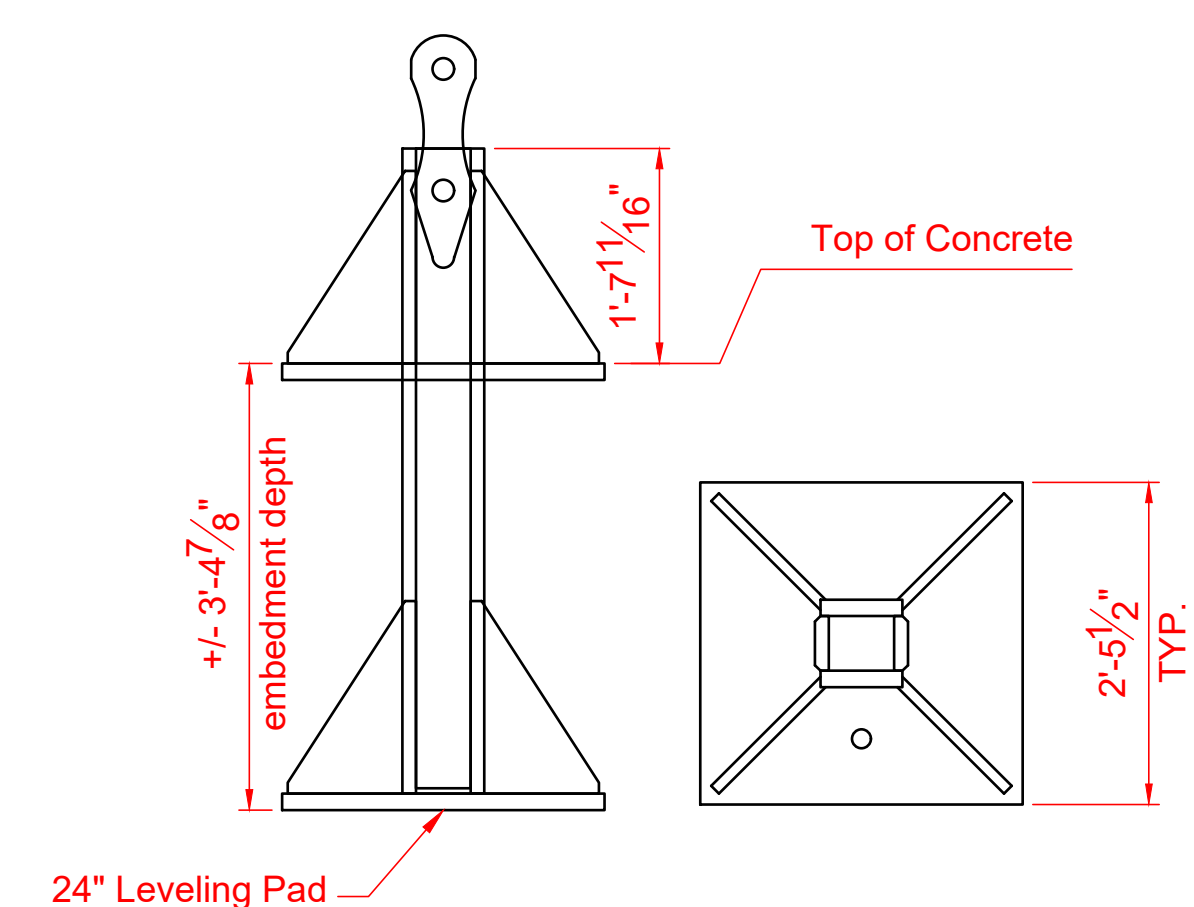
1. The crane foundation shall be designed in accordance with the recommendations from a site specific geotechnical report.
2. Foundations located within a 1.5H:1V slope of the toe of an excavation shall not be permitted. The customer shall verify that there are no underground structures, utilities or obstructions in the area of the proposed crane location(s).
3. It is recommended the concrete foundation have a hard trowel finish.

### Base Section Set Procedure:

1. Install bottom reinforcement
2. Build leveling pads. Bottom reinforcing mat shall be continuous through leveling pads.
3. Place base assembly on leveling pads.
4. Confirm correct orientation of the mast section with the plan view.
5. **Set base assembly level using shims as required. The base assembly shall be set level prior to pouring the foundation for the crane. The tower mast shall be erected plumb to within a tolerance of 1:500 (0.96 inches in 40 feet).**
6. Install center and top reinforcement mats.
7. **The top surface of the stool must be flush with the top of the foundation concrete.**

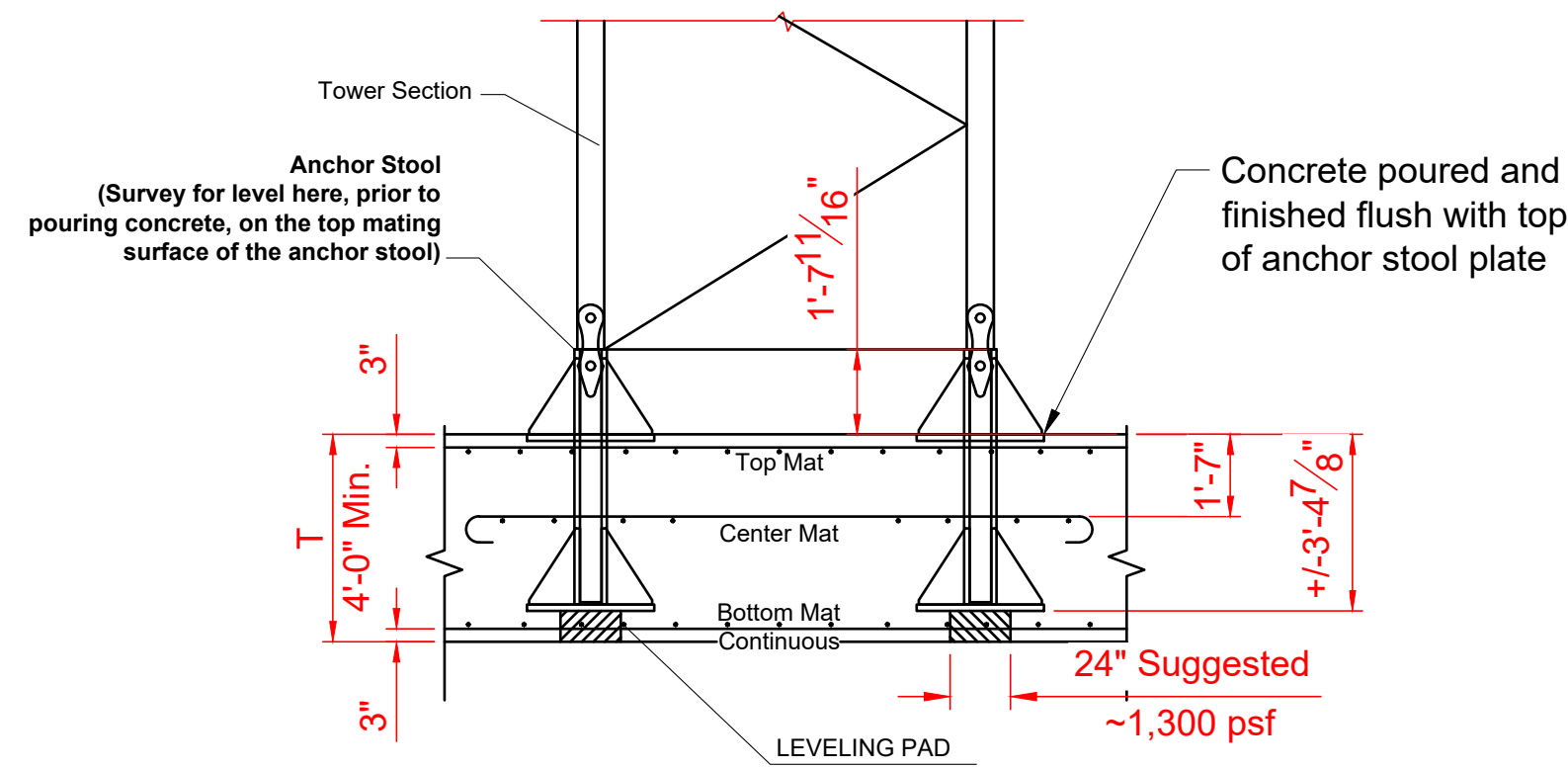


3 LEVELING PAD  
Scale: NTS

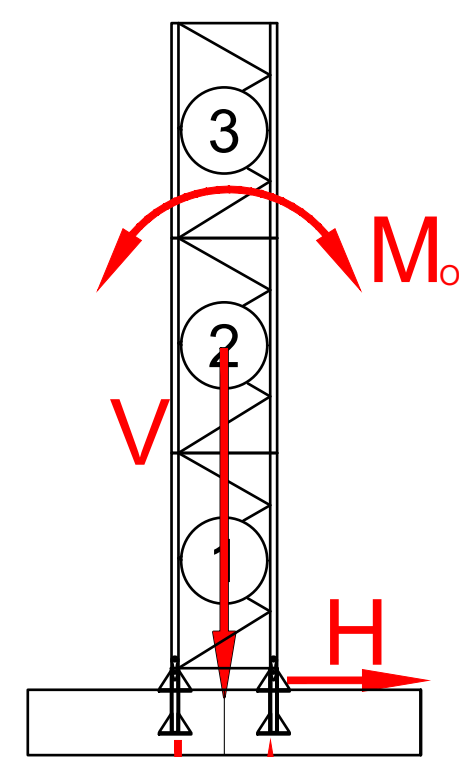


2 P800US ANCHOR STOOL DIMENSIONS  
Scale: NTS

Out of Service Design Code =	ASME B30.3
Site ASCE 7 Wind Speed =	
Vult 3-sec (mph) =	120
ASCE 7 Risk Category =	II
ASCE 7 Exposure Category =	C
Tower Crane Duration =	1 - 2 Years
ASCE 37 Reduction =	0.85
Minimum Allowed Design Code	
Wind Speed = Vult code (mph) =	102
Wind Speed used for Design =	
Vult design (mph) =	102

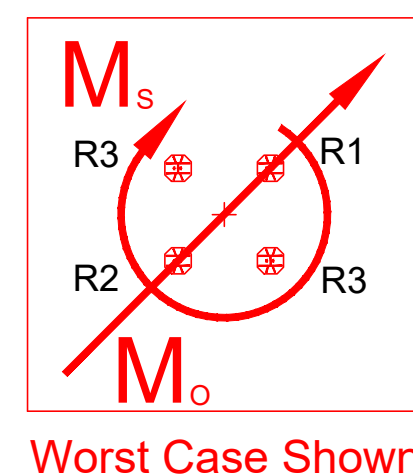


4 P800US FOUNDATION ELEVATION  
Scale: NTS



### FOOTING REACTION NOMENCLATURE

- Mo: OVERTURNING MOMENT
- V: VERTICAL FORCE
- H: HORIZONTAL FORCE
- Ms: SLEWING MOMENT
- R1: MAXIMUM AXIAL FORCE FROM Mo & V
- R2: MAXIMUM UPLIFT FORCE FROM Mo & V
- R3: CORNER FORCE FROM Mo & V



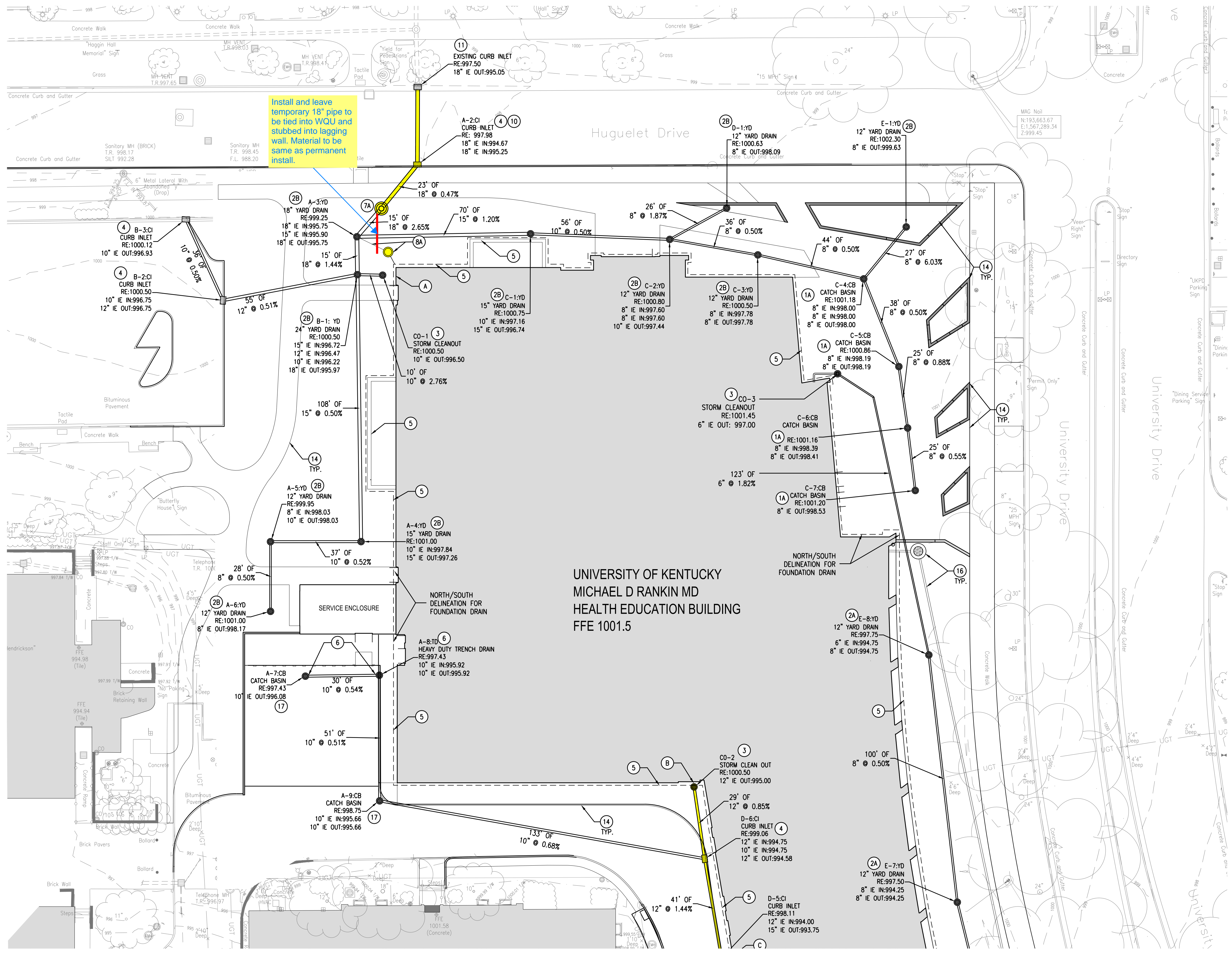
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UK HEB  
LEXINGTON, KY  
CRANE 2 FOUNDATION REACTIONS  
TURNER CONSTRUCTION

REV	NOTE	DATE

Job #: 24-0006  
Drawn by: RWN  
Checked by: ...  
Sheet: X-3.2

## FOR APPROVAL



Install and leave temporary 18" pipe to be tied into WOU and stubbed into lagging wall. Material to be same as permanent install.

UNIVERSITY OF KENTUCKY  
MICHAEL D RANKIN MD  
HEALTH EDUCATION BUILDING  
FFE 1001.5

Site Drainage Plan

**HIGHLIGHTED AREAS INDICATE STORM STRUCTURES AND PIPING TO BE INSTALLED AS PART OF BP-02.**

**UNLIGHTED STRUCTURES AND PIPING TO BE INSTALLED BY OTHERS IN A LATER PACKAGE.**

GENERAL SITE DRAINAGE NOTES

- ALL SPOT ELEVATIONS INDICATE FINISH GRADE OF SURFACE. ADJUSTMENTS MUST BE MADE TO ESTABLISH GRADES OF SUB-BASE OR SUBGRADE. SPOT ELEVATIONS ARE INCLUSIVE OF ANY LANDSCAPE MULCH REQUIRED.
- PRIOR TO CONSTRUCTION OR DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES, SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITIES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
- ALL EXCESS EXCAVATED MATERIAL OTHER THAN TOPSOIL, IS TO BE REMOVED FROM THE SITE AT CONTRACTOR'S COST.
- UNLESS OTHERWISE NOTED, ALL TREES AND VEGETATION SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO NOT DAMAGE FOLIAGE, BRANCHES OR ROOTS OF EXISTING TREES TO REMAIN.
- SHOULD CONTRACTOR ENCOUNTER ROCK EXCAVATION, THE ROCK SHALL BE REMOVED TO A MINIMUM DEPTH OF SIX INCHES BELOW BOTTOM OF UTILITIES UNLESS OTHERWISE NOTED IN CONTRACTOR DOCUMENTS INCLUDING THE GEOTECHNICAL REPORT.
- ELEVATIONS AND CONTOURS ON THIS PLAN ARE REFERENCED TO MEAN SEA LEVEL DATUM AND BENCHMARKS REFERRED ON THE PLAN.
- IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IF ROCK EXCAVATION FOR MASS GRADING OR TRENCHING IS REQUIRED. ALL EXCAVATION IS UNCLASSIFIED. THERE WILL BE NO PAYMENT FOR ROCK EXCAVATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXCAVATION QUANTITIES.
- IT IS THE DESIGN INTENT FOR ALL WATER TO BE DIRECTED AWAY FROM THE PROPOSED AND EXISTING BUILDINGS.
- REFER TO THE SITE SURVEY FOR EXISTING SPOT ELEVATIONS.
- EXISTING STORM SEWER RIMS AND INVERTS ARE TAKEN FROM THE SITE SURVEY AND SHOULD BE CROSS-REFERENCED WITH THE SITE SURVEY. REFER TO SITE SURVEY FOR ALL EXISTING ON-SITE STORM SEWER INFORMATION.
- CONTRACTOR IS RESPONSIBLE FOR DESIGN OF SHORING AND UNDERPINNING OF UTILITIES OR STRUCTURES AT LOCATIONS INDICATED. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF KENTUCKY AS REQUIRED BY THE OCCUPATIONAL SAFETY HEALTH ADMINISTRATION. THE NEED FOR MEANS AND METHODS FOR SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL NOTE THAT TEMPORARY CONSTRUCTION ACTIVITY MAY DE-STABILIZE SUBGRADES FOR BUILDING OR PAVED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS COST FOR THE TEMPORARY USE OF AREAS FOR CONSTRUCTION ACTIVITY AND SHALL ALSO BE RESPONSIBLE FOR RE-STABILIZING AREAS SHOULD TEMPORARY CONSTRUCTION ACTIVITY CONTRIBUTE TO THE NEED TO STABILIZE BUILDING OR PAVEMENT AREAS.
- ELEVATIONS OF ALL RIMS, STRUCTURE COVERS, ACCESS DOORS AND TOPS OF ALL UTILITY VAULTS, MANHOLES, VENTS, VALVE BOXES, ETC. SHALL BE ADJUSTED TO MEET PROPOSED SURROUNDING GRADES.
- BEFORE STARTING SITE EXCAVATION, CONTRACTOR SHALL BE FAMILIAR WITH THE REPORT OF GEOTECHNICAL EXPLORATION AND COMPLY WITH THE RECOMMENDATIONS PROVIDED FOR SUBGRADE CONDITIONS.
- TOPSOIL (BY OTHERS) SHALL BE SIX (6) INCHES DEEP IN ALL TURF AREAS AND TWELVE (12) INCHES DEEP IN ALL LANDSCAPE BED AREAS AFTER PLACEMENT AND REASONABLE SETTLEMENT.
- CONTRACTOR SHALL NOT PREVENT THE NORMAL DRAINAGE OF WATER OF DAM WATER. SHOULD OFFSITE TOPOGRAPHY OR CONTOURS SHOWN ON GRADING PLAN NOT DEPICT ACCURATE CONDITIONS THAT CREATE DRAINAGE PROBLEMS, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE OWNER, LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER, PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERCUT OF UNUSABLE, UNSTABLE OR OTHERWISE UNACCEPTABLE MATERIALS THAT ARE INDICATED ON THIS PLAN, ASSOCIATED SPECIFICATIONS AND/OR REFERENCED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PAY FOR ALL UNDERCUT EXCAVATION AND DISPOSITION OF MATERIALS IN AN ACCEPTABLE MANNER THAT SHALL INCLUDE HAULING OFFSITE.
- CONTRACTOR SHALL ENSURE ALL PROPOSED IMPROVEMENTS MEET AND MATCH EXISTING AND/OR ADJACENT CONDITIONS. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER UPON ANY DISCREPANCY WHICH WILL DETERMINE TO THIS CONDITION.
- ALL STORM SEWER INFRASTRUCTURE NEEDS TO BE FLUSHED FREE OF SEDIMENT AND INSPECTED BY ENGINEER AT COMPLETION OF PROJECT.
- SPOT ELEVATIONS LABELED WITH "X" ARE EXISTING SPOTS THAT HAVE BEEN INTERPOLATED FROM THE SITE SURVEY AND NEED TO BE VERIFIED IN THE FIELD. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND DEPTHS OF EXISTING STORM STRUCTURES PRIOR TO BEGINNING CONSTRUCTION TO INSURE ADEQUATE DEPTH.
- IF ANY EXISTING ASBESTOS COATED SEWER LINE IS UNearthED, IT WILL REQUIRE ABATEMENT IN ACCORDANCE WITH CURRENT EPA GUIDELINES.
- PROVIDE A MINIMUM OF 12" CRUSHED STONE BACKFILL OVER STORM PIPING. STORM PIPING UNDER PAVED SURFACES TO BE BACKFILLED FULL DEPTH WITH CRUSHED STONE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DewaterING OF EXCAVATION AREAS FOR FOUNDATIONS AND/OR BASEMENTS AND SHALL NOT ALLOW PONDING OF WATER THAT WILL DESTABILIZE THE SOIL BEARING FOR FOUNDATIONS, SLABS, STRUCTURES, ETC.
- CONTRACTOR SHALL UTILIZED DIGITAL FILES TO ESTABLISH COORDINATES FOR LOCATING DRAINAGE STRUCTURES. DIGITAL FILES CAN BE OBTAINED FROM CARMAN. SHOULD THE CONTRACTOR NEED A LISTING OF STRUCTURE COORDINATES, THESE MAY BE REQUESTED FROM THE OFFICE OF CARMAN.
- THE CONTRACTOR SHALL SUBMIT SITE SPECIFIC SHOP DRAWINGS, SAMPLES, ETC FOR ANY MANUFACTURED OR PRE-CAST EQUIPMENT OR STRUCTURES ASSOCIATED WITH STORM DRAINAGE OR STORMWATER MANAGEMENT IMPROVEMENTS.
- ASIDE FROM DESIGNATED SUMP MANHOLES, ANY SUMPS REMAINING IN STORM STRUCTURES (PVC OR CONCRETE) BELOW THE INVERT ELEVATION OF THE OUTLET PIPE SHALL BE FILLED WITH CONCRETE TO ELIMINATE ANY STANDING WATER WITHIN THE STRUCTURES.
- ALL GRAVITY STORM PIPING SHALL BE SDR35 PVC AS SPECIFIED.

SITE DRAINAGE CODED NOTES

KEY	DESCRIPTION	DETAILS
1A	12" CATCH BASIN WITH 12" CIRCULAR GRATED LID, FLUSH WITH ADJACENT SURFACE. GRATED LID TO CONFORM TO UK STANDARD HEEL PROOF REQUIREMENTS.	A / C602
1B	CATCH BASIN WITH 12" CIRCULAR SOLID LID, FLUSH WITH ADJACENT SURFACE	A / C602
2A	12" YARD DRAIN WITH BEEHIVE GRATE	B / C602
2B	YARD DRAIN BASIN WITH OPEN GRATE FLUSH WITH ADJACENT SURFACE - SIZE VARIES	B / C602
3	CLEANOUT	C / C602
4	2'x3' CURB BOX INLET	D / C602
5	FOUNDATION DRAIN LINE - 6" PERFORATED HDPE PIPE IN FILTER SOCK. REFER TO STRUCTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION	-
6	HEAVY DUTY TRENCH DRAIN	G / C602
7A	WOU #1: 6" DIAMETER WATER QUALITY UNIT	H / C602
7B	WOU #2: 6" DIAMETER WATER QUALITY UNIT	I / C602
8A	FOUNDATION DRAIN MANHOLE #1: 4" DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS AND AREAWAY SUMP DISCHARGE. NEW MANHOLE TO HAVE WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE A-3. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1000.00 - FOUNDATION DRAIN INV ELEVATION: 981.50 - AREAWAY SUMP INV: 977.90 - SUMP ELEVATION: 973.90	E / C602
8B	FOUNDATION DRAIN MANHOLE #2: 4" DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-5-YD. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1001.00 - INVERT ELEVATION: 984.00 - SUMP ELEVATION: 980.00	E / C602
9	SET NEW 4" DIAMETER MANHOLE D-2 ON EXISTING 12" PIPE AND E-2 MH ON EXISTING 24" PIPE. SEAL CONNECTION TO PREVENT LEAKS. FIELD VERIFY INVERT ELEVATIONS.	E / C602
10	SET NEW 2'x3' CURB BOX INLET ON EXISTING 18" LINE. SEAL CONNECTION TO PREVENT LEAKS.	D / C602
11	EXISTING CURB BOX INLET	-
12	PERMEABLE PAVEMENT MANHOLE #3: 4" DIAMETER SUMPED MANHOLE FOR PERMEABLE PAVEMENT DRAINAGE SYSTEM WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-2MH. CONNECT 4" CONDENSATE DRAIN LINE FROM BUILDING TO MANHOLE AT INVERT ELEVATION 981.33. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 985.00 - INVERT ELEVATION 981.33 - SUMP ELEVATION 977.33	E / C602
13	PERMEABLE PAVEMENT DRAINAGE SYSTEM. 4" PERFORATED PIPE IN SOCK CONNECTED TO MANHOLE	-
14	FUTURE SITE WORK FOR REFERENCE ONLY	-
15	WALLS PER STRUCTURAL PLANS	-
16	SANITARY SEWER SYSTEM FOR REFERENCE ONLY - SEE SHEET C500-C502 FOR MORE INFORMATION REGARDING SANITARY SEWER	-
17	2' x 2' CONCRETE CATCH BASIN	F / C602

FOUNDATION PENETRATIONS FOR INTERNAL BUILDING DRAINAGE

KEY	DESCRIPTION
A	10" PIPE INVERT OUT OF BUILDING AT CO-1: 997.50
B	10" PIPE INVERT OUT OF BUILDING AT CO-2: 995.00
C	8" PIPE INVERT OUT OF BUILDING AT D-5-CI: 994.25
D	8" PIPE INVERT OUT OF BUILDING AT D-4-CI: 989.50



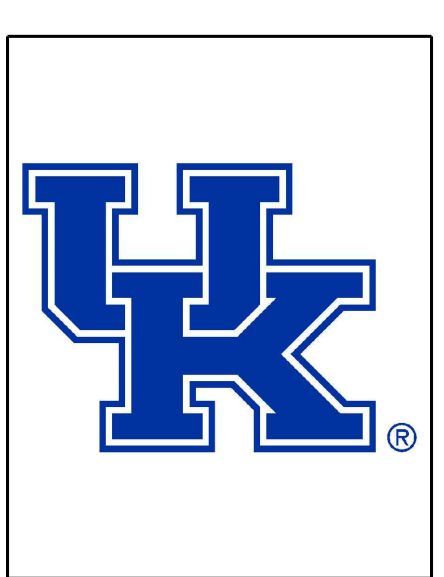
3225 Summit Square Place, Suite 200  
Lexington, Kentucky 40509  
859.252.6781



RESERVED FOR AHJ STAMP



BP-02  
MICHAEL D RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



CIVIL		
PROJECT	202170	
DATE	02.19.24	
REVISIONS		
No.	Description	Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS - IN ELECTRONIC OR ANY OTHER FORMAT - IN ANY MANNER OR FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE PROPER WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT REGARDING ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

SITE DRAINAGE PLAN NORTH

C600  
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BEFORE YOU DIG CALL KENTUCKY UNDERGROUND (811) TWO (2) WORKING DAYS IN ADVANCE OF DIGGING

SK-006.1

### GENERAL SITE DRAINAGE NOTES

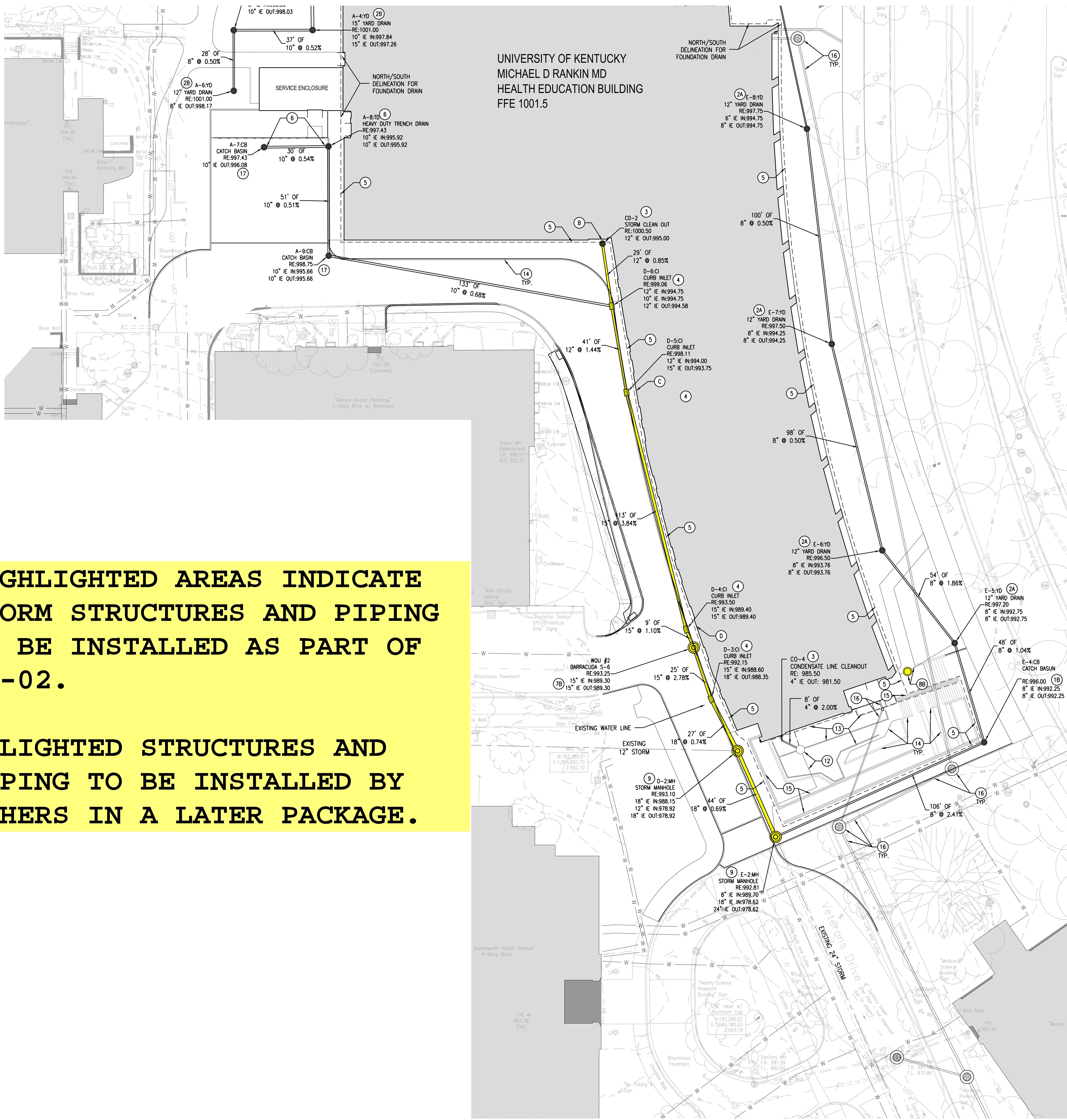
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- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES, SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
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- EXISTING STORM SEWER RIMS AND INVERTS ARE TAKEN FROM THE SITE SURVEY AND SHOULD BE CROSS-REFERENCED WITH THE SITE SURVEY. REFER TO SITE SURVEY FOR ALL EXISTING ON-SITE STORM SEWER INFORMATION.
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- THE CONTRACTOR SHALL NOTE THAT TEMPORARY CONSTRUCTION ACTIVITY MAY DE-STABILIZE SUBGRADES FOR BUILDING OR PAVED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS COST FOR THE TEMPORARY USE OF AREAS FOR CONSTRUCTION ACTIVITY AND SHALL ALSO BE RESPONSIBLE FOR RE-STABILIZING AREAS SHOULD TEMPORARY CONSTRUCTION ACTIVITY CONTRIBUTE TO THE NEED TO STABILIZE BUILDING OR PAVEMENT AREAS.
- ELEVATIONS OF ALL RIMS, STRUCTURE COVERS, ACCESS DOORS AND TOPS OF ALL UTILITY VAULTS, MANHOLES, VENTS, VALVE BOXES, ETC. SHALL BE ADJUSTED TO MEET PROPOSED SURROUNDING GRADES.
- BEFORE STARTING SITE EXCAVATION, CONTRACTOR SHALL BE FAMILIAR WITH THE REPORT OF GEOTECHNICAL EXPLORATION AND COMPLY WITH RECOMMENDATION PROVIDED FOR SUBGRADE CONDITIONS.
- TOPSOIL (BY OTHERS) SHALL BE SIX (6) INCHES DEEP IN ALL TURF AREAS AND TWELVE (12) INCHES DEEP IN ALL LANDSCAPE BED AREAS AFTER PLACEMENT AND REASONABLE SETTLEMENT.
- CONTRACTOR SHALL NOT CREATE ANY SITE GRADING THAT WILL PREVENT THE NORMAL DRAINAGE OF WATER OF DAM WATER. SHOULD OFFSITE TOPOGRAPHY OR CONTOURS SHOWN ON GRADING PLAN NOT DEPICT ACCURATE CONDITIONS THAT CREATE DRAINAGE PROBLEMS, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE OWNER, LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER, PRIOR TO BEGINNING WORK.
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- CONTRACTOR SHALL ENSURE ALL PROPOSED IMPROVEMENTS MEET AND MATCH EXISTING AND/OR ADJACENT CONDITIONS. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER UPON ANY DISCREPANCY WHICH WILL DETERMINE ADHERENCE TO THIS CONDITION.
- ALL STORM SEWER INFRASTRUCTURE NEEDS TO BE FISHED FREE OF SEDIMENT AND INSPECTED BY ENGINEER AT COMPLETION OF PROJECT.
- SPOT ELEVATIONS LABELED WITH "EX" ARE EXISTING SPOTS THAT HAVE BEEN INTERPOLATED FROM THE SITE SURVEY AND NEED TO BE VERIFIED IN THE FIELD. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
- CONTRACTOR TO FIELD VERIFY ALL LOCATIONS AND DEPTHS OF EXISTING STORM STRUCTURES PRIOR TO BEGINNING CONSTRUCTION TO INSURE ADEQUATE DETENTION.
- IF ANY EXISTING ASPBESTOS COATED SEWER LINE IS UNearthED, IT WILL REQUIRE ABATEMENT IN ACCORDANCE WITH CURRENT EPA GUIDELINES.
- PROVIDE A MINIMUM OF 12" CRUSHED STONE BACKFILL OVER STORM PIPING. STORM PIPING UNDER PAVED SURFACES TO BE BACKFILLED FULL DEPTH WITH CRUSHED STONE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING OF EXCAVATION AREAS FOR FOUNDATIONS AND/OR BASEMENTS AND SHALL NOT ALLOW PONDING OF WATER THAT WILL DESTABILIZE THE SOIL BEARING FOR FOUNDATIONS, SLABS, STRUCTURES, ETC.
- CONTRACTOR SHALL UTILIZED DIGITAL FILES TO ESTABLISH COORDINATES FOR LOCATING DRAINAGE STRUCTURES. DIGITAL FILES CAN BE OBTAINED FROM CARMAN. SHOULD THE CONTRACTOR NEED A LISTING OF STRUCTURE COORDINATES, THESE MAY BE REQUESTED FROM THE OFFICE OF CARMAN.
- THE CONTRACTOR SHALL SUBMIT SITE CONSTRUCTION DRAWINGS, SAMPLES, ETC. FOR ANY MANUFACTURED OR PIPE-CAST EQUIPMENT OR STRUCTURES ASSOCIATED WITH STORM DRAINAGE OR STORMWATER MANAGEMENT IMPROVEMENTS.
- ASIDE FROM DESIGNATED SUMP MANHOLES, ANY SUMPS REMAINING IN STORM STRUCTURES (PVC OR CONCRETE) BELOW THE INVERT ELEVATION OF THE OUTLET PIPE SHALL BE FILLED WITH CONCRETE TO ELIMINATE ANY STANDING WATER WITHIN THE STRUCTURES.
- ALL GRAVITY STORM PIPING SHALL BE SDR35 PVC AS SPECIFIED.

### SITE DRAINAGE CODED NOTES

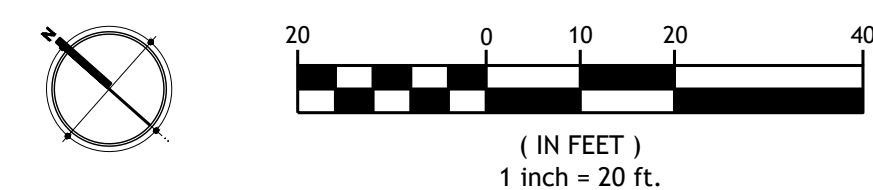
KEY	DESCRIPTION	DETAILS
1A	12" CATCH BASIN WITH 12" CIRCULAR GRATED LID, FLUSH WITH ADJACENT SURFACE. GRATED LID TO CONFORM TO UK STANDARD HEEL PROOF REQUIREMENTS	A / C602
1B	CATCH BASIN WITH 12" CIRCULAR SOLID LID, FLUSH WITH ADJACENT SURFACE	A / C602
2A	12" YARD DRAIN WITH BEEHIVE GRATE	B / C602
2B	YARD DRAIN BASIN WITH OPEN GRATE FLUSH WITH ADJACENT SURFACE - SIZE VARIES	B / C602
3	CLEANOUT	C / C602
4	2'X3' CURB BOX INLET	D / C602
5	FOUNDATION DRAIN LINE - 6" PERFORATED HDPE PIPE IN FILTER SOCK. REFER TO STRUCTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION	-
6	HEAVY DUTY TRENCH DRAIN	G / C602
7A	WOU #1: 6" DIAMETER WATER QUALITY UNIT	H / C602
7B	WOU #2: 6" DIAMETER WATER QUALITY UNIT	I / C602
8A	FOUNDATION DRAIN MANHOLE #1: 4" DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS AND AREAWAY SUMP DISCHARGE. NEW MANHOLE TO HAVE WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE A-3. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1000.00 - FOUNDATION DRAIN INV. ELEVATION: 981.50 - AREAWAY SUMP INV. 977.90 - SUMP ELEVATION: 973.90	E / C602
8B	FOUNDATION DRAIN MANHOLE #2: 4" DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-5-YD. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1001.00 - INVERT ELEVATION: 984.00 - SUMP ELEVATION: 980.00	E / C602
9	SET NEW 4" DIAMETER MANHOLE D-2 ON EXISTING 12" PIPE AND E-2 MH ON EXISTING 24" PIPE. SEAL CONNECTION TO PREVENT LEAKS. FIELD VERIFY INVERT ELEVATIONS.	E / C602
10	SET NEW 2'X3' CURB BOX INLET ON EXISTING 18" LINE. SEAL CONNECTION TO PREVENT LEAKS.	D / C602
11	EXISTING CURB BOX INLET	-
12	PERMEABLE PAVEMENT MANHOLE #3: 4" DIAMETER SUMPED MANHOLE FOR PERMEABLE PAVEMENT DRAINAGE SYSTEM WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-2-MH. CONNECT 4" CONDENSATE DRAIN LINE FROM BUILDING TO MANHOLE AT INVERT ELEVATION 981.33. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 985.00 - INVERT ELEVATION 981.33 - SUMP ELEVATION 977.33	E / C602
13	PERMEABLE PAVEMENT DRAINAGE SYSTEM. 4" PERFORATED PIPE IN SOCK CONNECTED TO MANHOLE	-
14	FUTURE SITE WORK FOR REFERENCE ONLY	-
15	WALLS PER STRUCTURAL PLANS	-
16	SANITARY SEWER SYSTEM FOR REFERENCE ONLY - SEE SHEET C500-C502 FOR MORE INFORMATION REGARDING SANITARY SEWER	-
17	2' X 2' CONCRETE CATCH BASIN	F / C602

### FOUNDATION PENETRATIONS FOR INTERNAL BUILDING DRAINAGE

KEY	DESCRIPTION
A	10" PIPE INVERT OUT OF BUILDING AT CO-1: 997.50
B	10" PIPE INVERT OUT OF BUILDING AT CO-2: 995.00
C	8" PIPE INVERT OUT OF BUILDING AT D-5-C: 994.25
D	8" PIPE INVERT OUT OF BUILDING AT D-4-C: 989.50



Site Plan



**HIGHLIGHTED AREAS INDICATE STORM STRUCTURES AND PIPING TO BE INSTALLED AS PART OF BP-02.**

**UNLIGHTED STRUCTURES AND PIPING TO BE INSTALLED BY OTHERS IN A LATER PACKAGE.**



BEFORE YOU DIG CALL KENTUCKY UNDERGROUND (811) TWO (2) WORKING DAYS IN ADVANCE OF DIGGING

# SK-006.2

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FOR THE PROJECT TITLED:

**Health Education Building**  
**UK Project No. 2564**  
**JRA Project No. 202170**  
University of Kentucky  
Lexington, Kentucky

To: Prospective Bidders

From: JRA Architects  
3225 Summit Square Place, Suite 200  
Lexington, KY 40509

Project Contact: D. Robert Deal, AIA, LEED AP

The Addendum will form a part of the Contract Documents and modifies the original Bidding Documents dated February 2024.

Bidders must acknowledge receipt of this Addendum in the space provided on the Form of Proposal. Failure to do so may subject the bidder to disqualification.

Bidding Documents, including the Drawings and Specifications, are amended as described herein.

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**ADDENDUM ITEMS:**

**ITEM NO. 3.01**

Refer to attached sheet S-001. See added solar panel design loads and concrete shear wall design stresses.

**ITEM NO. 3.02**

Refer to attached sheet S-002. Abbreviation list has updated. Foundation Tag Notes and Framing Tag Notes have moved from all Plan sheets and are now located on this "General Notes & Structure Tag Notes" sheet.

**ITEM NO. 3.03**

Refer to attached sheet S-004. Updated isometric views included for reference only.

**ITEM NO. 3.04**

Refer to attached sheet S-005. Updated isometric views included for reference only.

**ITEM NO. 3.05**

Refer to attached sheet S-006. Added/modified gridlines and layout as design development progressed.

**ITEM NO. 3.06**

Refer to attached sheet S-110A. Foundation Tag Notes moved to sheet S-002. Updated Foundation Plan Notes. Spread Footing Schedule changes to footing sizes and reinforcement. Updated embed and bearing plates, gridlines and dimensions, rock anchor locations, pier sizes/locations, and footing sizes/locations, additional piers and footings for added columns. Added concrete beam for lateral wall support at west areaway.

**ITEM NO. 3.07**

Refer to attached sheet S-110B. Foundation Tag Notes moved to sheet S-002. Updated Foundation Plan Notes. Spread Footing Schedule changes to footing sizes and reinforcement. Updated gridlines and



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dimensions, wall footings, rock anchor locations, pier sizes/locations, and footing sizes/locations, additional piers and footings for added columns.

**ITEM NO. 3.08**

Refer to attached sheet S-110C. Foundation Tag Notes moved to sheet S-002. Updated Foundation Plan Notes. Spread Footing Schedule changes to footing sizes and reinforcement. Updated gridlines and dimensions, rock anchor locations, pier sizes/locations, and footing sizes/locations, additional footings for added columns. Moved column from Gridline S2 to Gridline S1.

**ITEM NO. 3.09**

Refer to attached sheet S-111A. Framing Tag Notes moved to sheet S-002. Updated gridlines and dimensions and updated embed plates.

**ITEM NO. 3.10**

Refer to attached sheet S-111B. Framing Tag Notes moved to sheet S-002. Updated gridlines and dimensions. Added section at existing comm duct bank permanent support framing detail (for reference only).

**ITEM NO. 3.11**

Refer to attached sheet S-111C. Framing Tag Notes moved to sheet S-002. Updated gridlines and dimensions and updated embed plates, added tag notes clarifying reinforcement around window openings in concrete foundation wall.

**ITEM NO. 3.12**

Refer to attached sheet S-201. Updated baseplates on Steel Column Schedule, clarified intent of / design status of column schedule issued in BP-02.

**ITEM NO. 3.13**

Refer to attached sheet S-202. Updated baseplates on Steel Column Schedule, clarified intent of / design status of column schedule issued in BP-02.

**ITEM NO. 3.14**

Refer to attached sheet S-203. Updated baseplates on Steel Column Schedule, clarified intent of / design status of column schedule issued in BP-02.

**ITEM NO. 3.15**

Refer to attached sheet S-301. Deleted unused footing marks from schedule, updated reinforcement noted in schedule.

**ITEM NO. 3.16**

Refer to attached sheet S-302. Updated pier sizes and reinforcement. Added additional pier types.

**ITEM NO. 3.17**

Refer to attached sheet S-303. Miscellaneous changes to existing sections and details. Added new section for added concrete beam at areaway and added new section for first floor slab edge condition at stair landing.

**ITEM NO. 3.18**

Refer to attached sheet S-305. Updated bearing plate on masonry detail.

**ITEM NO. 3.19**

Refer to attached sheet S-306. Updated section for concrete shear wall and updated section for precast connection onto concrete stem wall.

**ITEM NO. 3.20**

Refer to attached sheet S-307. Miscellaneous changes to existing sections and details.

**ITEM NO. 3.21**

Refer to attached sheet S-308. Miscellaneous changes to existing sections and details. Updated detail for added concrete beam in areaway, updated embed angle size where lateral frames occur, ze added a new section for steel column on top of masonry wall.

**ITEM NO. 3.22**

Refer to the Mechanical Drawings. Mechanical Drawings shall be renumbered to be sequential with BP-1 site plans. Refer to the attached drawings. Item #2 Refer to Mechanical Drawing MU-202

**ITEM NO. 3.23**

Refer to the Mechanical Drawings. The invert elevation of the steam pipes including the HPR and pumped condensate return line shall be lowered to 992.7 to provide additional clearance between the steam pipes and new site storm piping in the area.

**ITEM NO. 3.24**

Refer to the Civil Drawings.

New Inlet on 'A' Line Between 3 and 4, added to circumvent the electrical vault

- New Inlet Is "B-1A: YD"
- RE:10001.2
- 15" IN: 996.80
- 12" IN: 996.80
- 15" OUT: 996.80

A-4 YD – Rim raised slightly to help grade

- RE-1001.25

A-5 YD – Moved plan south ~8' with Rim adjustment

- RE:1000.50

A-6 YD – Removed from project, this area to be gravel and enclosed per Arch

A-7 CB – Don't need inlet on TD and was removed.

A-8 TD – Shifted away from wall

A-9 CB – Shifted to apron/asphalt intersect (in concrete)

B-1 YD – 12" pipe from west removed due to vault.

- RE: 1000.50
- 15" IN: 996.70
- 10" IN: 996.22
- 18" OUT: 995.97

B-2 CI – Angle out changes to hit new box

- RE:1000.50

- 10" IN: 997.09
- 12" OUT: 997.09

B-3 CI – Shifted plan right to avoid Chilled water lines

- RE: 1000.12
- 10" OUT: 997.27

D-6 CI – Shifted South for curb line change

- RE:998.84

Pipe from CO-3 to E-8: YD orientation changed to avoid steam lines.

E-7:YD Rim Elevation corrected

- RE:998.50

The following pipes were changed to Ductile Iron due to heat concerns from steam lines

1. B1-A3
2. A3 to MH 3. C1-A3
4. D1-C2
5. C2-C3

**ITEM NO. 3.25**

Refer to Sheet C401 – Site Water Utility Plan. Coded Note 8 Changed. "Contractor" replaces "Owner".

**END OF ADDENDUM NO. 3.00**

GENERAL NOTES

Table with 2 columns: STRUCTURAL RISK CATEGORY and CATEGORY III. Lists various load types and their values (e.g., FLOOR SLAB ON-GRADE, ROOF LOAD).

Table with 2 columns: ROOF SNOW LOAD (PER ASCE 7-10) and values for different snow load types (e.g., GROUND SNOW, IMPORTANCE FACTOR).

Table with 2 columns: WIND LOAD (PER ASCE 7-10) and values for wind speed and pressure coefficients (e.g., ULTIMATE DESIGN WIND SPEED, INTERNAL PRESSURE COEFFICIENT).

Table with 2 columns: COMPONENTS & CLADDING EXTERNAL PRESSURE (ULTIMATE LRFD) LOADS (PSF) and LOCATION PER ASCE 7-10. Includes windward and leeward wall and roof loads.

Table with 2 columns: EFFECTIVE WIND AREA (SQ. FT.) and LOCATION PER ASCE 7-10. Lists wind area values for different building locations.

- NOTES: 1. WIND LOADING PROVIDED ARE ULTIMATE (LRFD) LOADING... 2. LOADING PROVIDED IS FOR WORST CASE ROOF HEIGHT... 3. PRESSURES SHOWN ARE APPLIED NORMAL TO THE SURFACE...

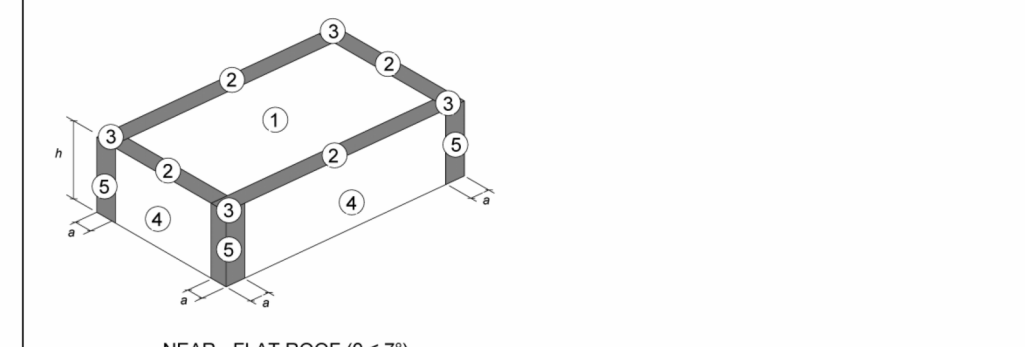


Table with 2 columns: EARTHQUAKE DESIGN DATA and values for seismic design parameters (e.g., COUNTY / STATE, IMPORTANCE FACTOR, DESIGN 1 SECOND PERIOD SPECTRAL RESPONSE COEFFICIENT).

DESIGN STRESSES

Table with 2 columns: CONCRETE (STRENGTH DESIGN) MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS and various material strengths (e.g., Fc, Fy, Fm).

DESIGN CRITERIA

- 1. STRUCTURE IS DESIGNED IN ACCORDANCE WITH THE 2018 KENTUCKY BUILDING CODE... 2. MAXIMUM ESTIMATED DEFLECTIONS (IN INCHES) ARE AS FOLLOWS...

GENERAL

- 1. THE REQUIREMENTS OF THESE GENERAL NOTES APPLY UNLESS NOTED OTHERWISE ON PLANS OR IN SPECIFICATIONS... 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONTRACT DOCUMENTS...

FOUNDATION CONSTRUCTION

- 1. FOUNDATIONS ON THIS PROJECT ARE DESIGNED IN ACCORDANCE WITH RECOMMENDATIONS MADE BY SAME, INC. GEOTECHNICAL ENGINEERS... 2. ELEVATIONS OVER ARE TO THE TOP OF FOOTINGS AND GRADE BEAMS...

LOOSE LINTEL SCHEDULE

- 1. THIS SCHEDULE IS FOR LINTELS OVER MASONRY OPENINGS NOT OTHERWISE SHOWN OR NOTED ON DRAWINGS... 2. ANGLES AND SUPPORT PLATES EXPOSED TO WEATHER SHALL BE HOT DIP GALVANIZED...

Table with 2 columns: 2. FOR 4" MASONRY WALLS PROVIDE: SPAN LIMITS and ANGLE SIZE. Lists span limits and angle sizes for different wall heights.

- 3. FOR 8" MASONRY WALLS PROVIDE: SPAN LIMITS and LINTEL SIZE. Lists span limits and lintel sizes for different wall heights.

MASONRY WALL CONSTRUCTION

- 1. MASONRY WALLS SHOWN ON STRUCTURAL DRAWINGS HAVE BEEN DESIGNED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS... 2. CONTRACTOR SHALL TAKE TEMPORARY PROTECTION FOR SUBGRADE UNTIL SLABS IS CAST TO PREVENT WATER INFILTRATION...

CONCRETE CONSTRUCTION

- 1. ALL CONCRETE CONSTRUCTION TO BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 301... 2. FURNISH BAR SUPPORTS WHERE NECESSARY DURING CONSTRUCTION...

Table with 2 columns: BAR SIZE and WALL THICKNESS. Lists bar sizes and wall thicknesses for different wall types.

- 1. INCREASE SPICE LENGTH BY THE FOLLOWING... 2. NOTE: INCREASED LENGTHS ARE ACCUMULATIVE... 3. HORIZONTAL TOP BARS WITH GREATER THAN 12" OF CONCRETE BELOW...

COVER

- 1. MASONRY PROTECTION FOR REINFORCEMENT: MASONRY EXPOSED TO WEATHER OR WEATHER NO. 6 BAR AND LARGER... 2. ANGLES AND SUPPORT PLATES EXPOSED TO WEATHER OR IN CONTACT WITH GROUND...

Table with 2 columns: GROUT TYPE, MAXIMUM FOUR HOUR GROUT HEIGHT, MINIMUM WIDTH OF GROUT SPACE, and MINIMUM GROUT SPACE DIMENSIONS FOR GROUTING CELLS OF HOLLOW UNITS.

- 38. PLACE GROUT IN LIFTS NOT EXCEEDING 12" 4" WHERE MASONRY HAS CURED AT LEAST 4 HOURS... 40. PROVIDE CLEANOUT HOLES AT LEAST 3 INCHES IN LEAST DIMENSION FOR GROUT POURS OVER 2 FEET IN HEIGHT...

STEEL CONSTRUCTION

- 1. STEEL DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE... 2. CONNECTIONS - WELDED OR HIGH STRENGTH BOLTED...

STEEL CONNECTIONS

- 1. THROUGH PLATE CONNECTIONS AT TUBE COLLUMS ARE NOT PERMITTED... 2. DOUBLE ANGLE KNEE CONNECTIONS, EXCEPT AS NOTED ABOVE... 3. WELDING ELECTRODES SHALL BE E70XX EXCEPT WHERE OTHER ELECTRODES ARE REQUIRED...

REBAR POSITIONERS

- 1. REBAR POSITIONERS SHALL BE USED TO HOLD VERTICAL REINFORCEMENT IN PROPER ALIGNMENT... 2. REBAR POSITIONERS ARE NOT REQUIRED WHERE GROUT POURS ARE 3 FEET 4 INCHES OR LESS WITH VERTICAL BARS CENTERED IN THE C.M.U. CELL...

- 3. CONTINUOUS REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM THE MASONRY SURFACE... 4. MANTAIN CLEAR DISTANCE OF 1/4" MINIMUM FOR FINE GROUT OR 1/2" MINIMUM FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF MASONRY UNIT.

EQUIPMENT SUPPORT

- 1. APPLY LOADS TO MEMBERS THAT ARE DESIGNATED FOR ADDITIONAL LOADS AS NOTED ON DRAWINGS... 2. STEEL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS...

COLD-FORMED STEEL FRAMING

- 1. THE FOLLOWING NOTES APPLY ONLY TO LOAD BEARING FRAMING OR FRAMING LOCATED IN EXTERIOR WALLS... 2. CONSIDER BEARING WALLS... 3. CONSIDER BEARING WALLS... 4. CONSIDER BEARING WALLS...

MATERIALS

Table with 2 columns: MIL THICKNESS and GAGE DESIGNATION (FOR REFERENCE ONLY). Lists material specifications for different thicknesses.

SCREEN NUMBER DESIGNATION

Table with 2 columns: SCREEN NUMBER DESIGNATION, NOMINAL SCREEN DIAMETER (IN), MINIMUM CENTER-TO-CENTER SPACING, MINIMUM EDGE DISTANCE, and TOTAL PANEL THICKNESS TO STEEL.

POWDER ACTUATED FASTENERS

- 1. POWDER ACTUATED FASTENERS USED FOR FASTENING COLD-FORMED METAL FRAMING (RUNNER TRACKS, CLIP ANGLERS, ETC.) TO CONCRETE SHALL BE 1/4" LONG, 0.157" SHANK DIAMETER... 2. POWDER ACTUATED FASTENERS USED FOR FASTENING COLD-FORMED METAL FRAMING...

REBAR POSITIONERS

- 1. REBAR POSITIONERS SHALL BE USED TO HOLD VERTICAL REINFORCEMENT IN PROPER ALIGNMENT... 2. REBAR POSITIONERS ARE NOT REQUIRED WHERE GROUT POURS ARE 3 FEET 4 INCHES OR LESS WITH VERTICAL BARS CENTERED IN THE C.M.U. CELL...

REBAR POSITIONERS

- 1. REBAR POSITIONERS SHALL BE USED TO HOLD VERTICAL REINFORCEMENT IN PROPER ALIGNMENT... 2. REBAR POSITIONERS ARE NOT REQUIRED WHERE GROUT POURS ARE 3 FEET 4 INCHES OR LESS WITH VERTICAL BARS CENTERED IN THE C.M.U. CELL...

- 11. MISCELLANEOUS HANGING LOADS SUCH AS STAIR STRINGERS, PIPES, MECHANICAL UNITS, ETC. SUPPORTED BY STEEL MEMBERS SHALL HAVE THESE LOADS APPLIED IN SUCH A MANNER THAT NO TORSIONAL FORCES ARE INDUCED IN THESE MEMBERS... 12. STEEL RELIEF ANGLES THAT SUPPORT MASONRY VENEER SHALL BE INSTALLED AS FOLLOWS...

STEEL DECK CONSTRUCTION

- 1. STEEL DECK DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE LATEST AWS STRUCTURAL WELDING CODE AND THE STEEL DECK INSTITUTE SPECIFICATIONS... 2. STEEL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS...

EQUIPMENT SUPPORT

- 1. APPLY LOADS TO MEMBERS THAT ARE DESIGNATED FOR ADDITIONAL LOADS AS NOTED ON DRAWINGS... 2. STEEL ROOF DECK SHALL BE CONTINUOUS OVER A MINIMUM OF 3 SPANS...

COLD-FORMED STEEL FRAMING

- 1. THE FOLLOWING NOTES APPLY ONLY TO LOAD BEARING FRAMING OR FRAMING LOCATED IN EXTERIOR WALLS... 2. CONSIDER BEARING WALLS... 3. CONSIDER BEARING WALLS... 4. CONSIDER BEARING WALLS...

MATERIALS

Table with 2 columns: MIL THICKNESS and GAGE DESIGNATION (FOR REFERENCE ONLY). Lists material specifications for different thicknesses.

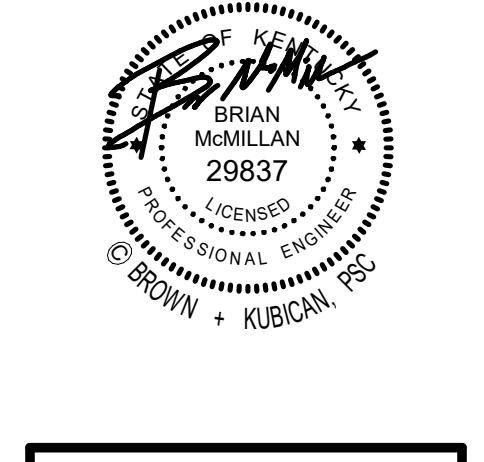
SCREEN NUMBER DESIGNATION

Table with 2 columns: SCREEN NUMBER DESIGNATION, NOMINAL SCREEN DIAMETER (IN), MINIMUM CENTER-TO-CENTER SPACING, MINIMUM EDGE DISTANCE, and TOTAL PANEL THICKNESS TO STEEL.

POWDER ACTUATED FASTENERS

- 1. POWDER ACTUATED FASTENERS USED FOR FASTENING COLD-FORMED METAL FRAMING (RUNNER TRACKS, CLIP ANGLERS, ETC.) TO CONCRETE SHALL BE 1/4" LONG, 0.157" SHANK DIAMETER... 2. POWDER ACTUATED FASTENERS USED FOR FASTENING COLD-FORMED METAL FRAMING...

JRA architects logo and contact information: 3225 Summit Square Place, Suite 300 Lexington, Kentucky 40509 859.252.6874



RESERVED FOR AHJ STAMP

BROWN+KUBICAN logo and contact information: 546 East Main Street, Suite 300 Lexington, KY 40508 859-543-9333 www.brownkubican.com

MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING UNIVERSITY OF KENTUCKY, BLDG NO. 0724 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY

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Table with 2 columns: PROJECT and DATE. PROJECT: 202170, DATE: 03.18.24. Includes a REVISIONS table with columns for No., Description, and Date.

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS... GENERAL NOTES S-001 COPYRIGHT 2024 - JRA, INC.

REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-02. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY.

- THE OWNER MAY EMPLOY AN INDEPENDENT TESTING AGENCY TO PERFORM FIELD TESTS AND INSPECTION OF COLD-FORMED CONSTRUCTION FOR CONFORMANCE WITH CONTRACT DOCUMENTS. THE CONTRACTOR SHALL FACILITATE AND ALLOW ACCESS TO THE WORK FOR TESTS AND INSPECTIONS TO BE PERFORMED.
- SUBMIT REPORTS DETAILING RESULTS OF ALL INSPECTIONS AND TESTING TO THE ARCHITECT/ENGINEER FOR APPROVAL WITHIN FIVE DAYS OF COMPLETION OF THE TESTS.
- FIELD MODIFICATIONS OF COLD-FORMED STEEL SYSTEMS SHALL NOT BE ALLOWED WITHOUT PRIOR APPROVAL BY ENGINEER OF RECORD.

**SITE OBSERVATION BY THE STRUCTURAL ENGINEER**

- THE ENGINEER HAS NO CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSION OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, MATERIAL SUPPLIER, OR AGENTS THEREOF. THE ENGINEER DOES NOT GUARANTEE THE PERFORMANCE OF THE CONTRACTOR AND SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM ITS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR APPLICABLE LAWS, CODES, RULES, OR REGULATIONS. THE CONTRACTOR SHALL MAINTAIN SOLE RESPONSIBILITY FOR DEFECTS AND DEFICIENCIES, INCLUDING PROVIDING TESTING AND INSPECTION ONCE SUCH ARE DISCOVERED, AND FOR PROVIDING ENGINEERED CORRECTIVE ACTION FOR DESIGN TEAM REVIEW.
- PERIODIC SITE OBSERVATION BY FIELD REPRESENTATIVES OF BROWN+KUBICAN, P.S.C. IS SOLELY FOR THE PURPOSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDING IN GENERAL ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THIS LIMITED SITE OBSERVATION SHALL NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOUS TO CHECK THE QUALITY, QUANTITY, OR ACCURACY OF THE CONSTRUCTION WORK, BUT RATHER PERIODIC IN EFFORT TO INFORM THE CLIENT ABOUT GENERAL PROGRESS AND TO ADVISE THE CLIENT ABOUT OBSERVED DEFECTS AND DEFICIENCIES IN THE WORK OF THE CONTRACTOR.

**ROOF, FLOOR, OR WALL OPENINGS**

- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR MECHANICAL OR ELECTRICAL ITEMS.
- SLEEVES AND OPENINGS SHALL BE LOCATED IN A MANNER THAT WILL MAINTAIN THE STRUCTURAL INTEGRITY OF THE ROOF, FLOOR, OR WALL SYSTEM.
- NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

**OPENINGS / PENETRATIONS / ATTACHMENTS TO STRUCTURE BY OTHER TRADES**

- THE CONTRACTOR SHALL COORDINATE AND VERIFY THE NUMBER, SIZE, AND LOCATION OF ALL SLEEVES AND OPENINGS REQUIRED FOR OTHER TRADES IN STRUCTURAL ELEMENTS.

**TO GRADE BEAM FOUNDATIONS:**

- HORIZONTAL PENETRATIONS SHALL OCCUR IN MIDDLE THIRD OF MEMBER DEPTH AND MIDDLE THIRD OF SPAN. MAXIMUM SIZE TO BE 6".
- VERTICAL PENETRATIONS LARGER THAN 2" ARE PROHIBITED.
- PENETRATIONS MAY NOT INTERRUPT OR CUT THROUGH REINFORCING.

**TO STRUCTURAL STEEL:**

- FIELD CUTTING/DORILLING OF HOLES LARGER THAN 3/8" INTO BEAM FLANGES OR COLUMNS IS PROHIBITED EXCEPT WHERE REQUIRED FOR STRUCTURAL STEEL CONNECTIONS.
- PENETRATIONS / HOLES THROUGH BEAM WEBS MAY BE POSSIBLE. TRADE CONTRACTOR SHALL BE RESPONSIBLE FOR ENGINEERING COST TO VERIFY ADEQUACY AND DESIGN AND FOR INSTALLATION COST OF OPENING AND ANY REINFORCEMENT.

**TO STRUCTURAL PRECAST CONCRETE:**

- CONTRACTORS SHALL COORDINATE PENETRATION REQUIREMENTS WITH STRUCTURAL ENGINEER AND STRUCTURAL MANUFACTURERS. TRADE CONTRACTORS SHALL COORDINATE AND MARK ALL PENETRATIONS LARGER THAN 2 INCHES IN DIAMETER/SQUARE THROUGH PRECAST CONCRETE WALLS DURING THE STRUCTURAL SUBMITTAL PROCESS. REINFORCEMENT OF SUBSEQUENT FIELD CUT OPENING OF 2" OR LARGER SHALL BE THE RESPONSIBILITY OF THE TRADE CONTRACTOR REQUIRING SUCH OPENING. ADJACENT GROUPED SMALL OPENINGS SHALL BE CONSIDERED AS ONE LARGE OPENING FOR STRUCTURAL PURPOSES.

**TO FLOOR DECK, ELEVATED SLABS, ROOF DECK:**

- NO PENETRATIONS LARGER THAN 12" IN DIAMETER / SQUARE SHALL BE FIELD CUT IN THE STRUCTURAL MEMBER WITHOUT APPROVAL OF THE ENGINEER OF RECORD FOR THAT ELEMENT.
- CUTTING / CORING OF ADJACENT PENETRATIONS, PERPENDICULAR TO THE STRUCTURAL SPAN, SHALL BE AVOIDED. ADJACENT PENETRATIONS THAT REMOVE MORE THAN 20% OF SUCH STRUCTURAL ELEMENT, IN ANY GIVEN 3-FOOT LENGTH, ARE PROHIBITED.

**MAINTENANCE STATEMENT AND STRUCTURE LIFESPAN**

- THE ENGINEER MAKES NO CLAIM OR AGREEMENT AS TO THE LIFESPAN OF THE BUILDING STRUCTURE. THE CLIENT AND OWNER SHALL UNDERSTAND THAT STRUCTURAL TYPES DO HAVE LIFESPAN RELATIVE TO INITIAL COST AND MAINTENANCE AND THAT BY REQUESTING OR ACCEPTING A STRUCTURAL SYSTEM OF LOWER INITIAL COST THAT THE USEABLE LIFESPAN WILL DECREASE AND MAINTENANCE INCREASE.
- ALL STRUCTURES REQUIRE PERIODIC MAINTENANCE TO EXTEND LIFESPAN AND TO ENSURE STRUCTURAL INTEGRITY FROM EXPOSURE TO THE ENVIRONMENT. THE ENGINEER SHALL NOT BE HELD LIABLE FOR MAINTENANCE REQUIREMENTS OR DETERIORATION RESULTING FROM LACK OF BUILDING MAINTENANCE.
- A PLANNED PROGRAM OF MAINTENANCE SHALL INCLUDE ITEMS SUCH AS, BUT NOT LIMITED TO: PAINTING OF STRUCTURAL STEEL AND UNITS; PROTECTIVE COATING FOR CONCRETE; SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, TIMELY REPAIR OF SPALLS AND CRACKS IN CONCRETE, AND PRESSURE WASHING OF STRUCTURAL ELEMENTS EXPOSED TO A SALT ENVIRONMENT OR OTHER HARSH CHEMICALS.

**STRUCTURAL ABBREVIATIONS**

APA ARCH	AMERICAN PLYWOOD ASSOCIATION ARCHITECTURAL	INT	INTERMEDIATE
B	BOTTOM	LBS	POUNDS
B.E.	BRICK EDGE ELEVATION	L.D.	LONG DIRECTION
BTM	BOTTOM	L.D.H.	LONG DIMENSION HORIZONTAL
BP	BD PACKAGE	L.D.V.	LONG DIMENSION VERTICAL
BTWN	BETWEEN	LONG	LONG / LONGITUDINAL
CANT	CANTILEVER BEAM	LVL	LAMINATED VENEER LUMBER
C.F.S.	COLD-FORMED STEEL	L.W.	LONG WAY
C.I.P.	CAST-IN-PLACE	MANUF	MANUFACTURER
C.J.P.	COMPLETE JOINT PENETRATION	MAX	MAXIMUM
CLR	CLEAR	MECH	MECHANICAL
C.M.U.	CONCRETE MASONRY UNIT	M.E.P.	MECHANICAL/ELECTRICAL/PLUMBING
COL	COLUMN	MIN	MINIMUM
CONC	CONCRETE	N.I.C.	NOT IN CONTRACT
CONT	CONTINUOUS	N.S.	NEAR SIDE
D	DEEP	N.T.S.	NOT TO SCALE
DET	DETAIL	O.C.	ON CENTER
D.G.A.	DENSE GRADED AGGREGATE	O.P.H.	OPPOSITE HAND
D.W.S.S.	DRAWINGS	P.A.F.	POWDER ACTUATED FASTENER
EA	EACH	P.J.P.	PARTIAL JOINT PENETRATION
E.F.	EACH FACE	R	RADIUS
ELEV	ELEVATION	REINF	REINFORCEMENT
EMBED	MINIMUM EMBEDMENT DEPTH INTO SUBSTRATE	R.T.U.	ROOF TOP UNIT (MECHANICAL)
E.O.S.	EDGE OF SLAB	S.C.	SLIP CRITICAL
E.O.R.	ENGINEER OF RECORD	S.D.	SHORT DIRECTION
E.W.	EACH WAY	SM	SIMILAR
EX	EXISTING	S.O.G.	SLAB ON GRADE
EXP	EXPANSION	SP	COLUMN SPICE
F.F.E.	FINISHED FLOOR ELEVATION	S.S.	STAINLESS STEEL
F.R.C.	FIBER REINFORCED CONCRETE	STD	STANDARD
F.R.P.	FIBER REINFORCED POLYMER	S.W.	SHORT WAY
F.R.T.	FIRE RESISTANCE TREATED	T	TOP
F.S.	FAR SIDE	T.RANS / T.RANS'	TRANSVERSE
FTG	FOOTING	TYP	TYPICAL
F.V.	FIELD VERIFY	U.N.O.	UNLESS NOTED OTHERWISE
GA	GAUGE	VERT	VERTICAL
GALV	GALVANIZED	W	WIDE
GR	GRIDLINE	W.W.F.	WELDED WIRE FABRIC
HORIZ	HORIZONTAL		
HSS	HOLLOW STRUCTURAL SECTION		

**MATERIAL LEGEND**

	BEDROCK		CONCRETE FILL		RAISED FLOOR
	CRUSHED STONE		DENSE GRADED AGGREGATE (DGA)		RECESSED FLOOR
	NATIVE EARTH / ENGINEERED FILL		PRECAST CONCRETE GROUT "IN SECTION"		C.M.U. "IN SECTION"
	CONCRETE		MASONRY GROUT "IN SECTION"		BRICK "IN SECTION"
	PRECAST CONCRETE		GRATING 1/8" SCALE		

**FOUNDATION PLANS TAG NOTES**

- TOP OF SLAB ELEVATION AT HIGH POINT IN AREAWAY = (+18'-8"). CRICKET SIDES AND LOW SIDE OF AREAWAY SLAB TO SLOPE BACK TO GRADE LOCATION.
- BOTTOM OF FOOTING SHALL BE AT LEAST AS LOW AS BOTTOM OF GRADE PAD USED ON SOUTH END OF BUILDING DURING CONSTRUCTION. EXTEND BOTTOM OF FOOTING FROM ELEVATIONS SHOWN AS NECESSARY TO MEET THIS RELATIONSHIP REQUIREMENT.
- THICKENED SLAB CENTERED BELOW TABLE LEG ANCHORAGE POINTS. SEE DET R9S-306.
- UTILITY LINE PASSES BELOW FOOTING IN THIS AREA. SEE DETAIL.
- UTILITY LINE PASSES THROUGH FOOTING IN THIS AREA. SEE DETAIL C/S-301.
- EXTEND BOTTOM OF SPREAD FOOTING, WITH 4,000 PSI CONCRETE FILL, AS REQUIRED TO BEAR AT OR BELOW TOP OF EXCAVATED ROCK SURFACE IN ADJACENT UTILITY PIPE BORING PIT. SEE SITE/CIVIL DWG C500.
- EXTEND PIER VERTICAL BARS TO 3" CLR TOP OF GRADE BEAM. TERMINATE BARS WITH STANDARD 90° HOOK.
- CONCRETE HAUNCH FOR GRADE BEAM SUPPORT. TERMINATE HAUNCH AT BOTTOM OF GRADE BEAM. SEE DETAIL D/S-303.
- CONCRETE STEPS, SEE DETAIL B/S-306.
- UTILITY LINES PASS THROUGH BASEMENT WALL IN THIS AREA. MAINTAIN 12" WIDTH MINIMUM BETWEEN ADJACENT OPENINGS. REINFORCE AROUND WALL PENETRATION PER DET H/S-301.
- STOP CONCRETE STEM WALL IN LINE WITH BASE OF RAMP.
- 6" VERTICAL SLEEVE IN FOOTING FOR UTILITY PASSAGE.
- WHERE WINDOW CURTAIN WALL EXTENDS BELOW FIRST FLOOR LEVEL, REINFORCE AROUND BLOCKOUT PER DET H/S-301 INCLUDING ADDED JAMB BARS, BOTTOM BARS, AND DIAGONAL CORNER BARS.
- 18x12 x 1'-8" WITH (3) 5/8" x 5' STUD ANCHORS ON EACH LEG @ 8" O.C. EMBED ANGLE IN CONCRETE WALL AND PIER AT STAR LANDING BARS.

**FRAMING PLANS TAG NOTES**

- BEAMS ARE NOT PERPENDICULAR TO SUPPORT AT GRID SC. FROM GRIDS S12-S2, AND WHERE NOTED ELSEWHERE.
- REINFORCEMENT BAR IN SLAB CENTERED OVER GIRDER BEAM. SEE DETAIL H/S-301 TYPICAL AT ALL STEEL GIRDERS SUPPORTING SLAB ON METAL DECK.
- RIPPED HSS FOR EXTENT OF SLOPE THIS DIRECTION. SEE SECTION.
- SPECIAL CONNECTION. SEE DETAIL X/S-XXX.
- SLAB RECESS AT RESTROOM. COORDINATE EXTENTS WITH ARCH DWGS. SPRAY-APPLIED FIRE-PROOFING ON UNDERSIDE OF DECK BELOW SLAB RECESS AND TO 1'-0" BEYOND ON ALL SIDES. SEE ARCH DWGS FOR ADDITIONAL INFORMATION.
- HSS6x3/8 HANGER TO PICK UP BALCONY BEAM. WELD HANGER TO BEAM ABOVE W/ 5/16" ALL AROUND FILLET WELD. ATTACH BALCONY BEAM TO HANGER WITH A STANDARD SHEAR CONNECTION.
- THIS COLUMN HAS BEEN DESIGNED FOR AN ADDITIONAL 25 KIP DEAD LOAD AND 25 KIP LIVE LOAD AT THE SECOND AND THIRD FLOOR TO ACCOMMODATE A FUTURE PEDWAY.
- SCREEN WALL FRAME. SEE DETAIL C/S-420.
- BEAM SHALL BE SHORED AT QUARTER POINTS (1/4, 1/2, AND 3/4 OF THE SPAN) DURING CONCRETE SLAB-ON-DECK PLACEMENT. SLAB SHALL BE FINISHED TO A CONSTANT 5 1/2" DEPTH OVER THIS AREA (THE SHORED BEAM SLAB SURFACE WILL HAVE CAMBER IN THE FINISHED SLAB).
- AT "FORCE PLATES" PROVIDE SOLID CONCRETE TOPPING SLAB TO STRUCTURAL SLAB BELOW. (SLAB BELOW FORCE PLATES SHALL NOT BE VIBRATION ISOLATED.) RECESS SOLID CONCRETE TOPPING SLAB AS REQUIRED TO ESTABLISH TO OF FORCE PLATE FLUSH WITH ADJACENT F.F.E.
- SEE A/S-420 AND B/S-420 FOR SCREEN WALL ELEVATION VIEWS.
- TIERED SEATING, WITH ACCESS STEPS AND RAMPS, SEE ARCH DRAWINGS. RAISED AREA IS TO BE CONSTRUCTED OVER FLAT STRUCTURAL CONCRETE SLAB ON METAL DECK BELOW. RAISED AREA CONSTRUCTION IS TO BE COLD-FORM METAL STUD FRAMING, INCLUDING HORIZONTAL FLOOR JOISTS, TOPPED WITH 3/4" THICK STRUCTURE-crete FLOOR PANELS.
- BEAM PENETRATES CONCRETE WALL.
- OPERABLE PARTITION SUPPORT BEAM. COORDINATE ELEVATION WITH OPERABLE PARTITION MANUFACTURER.
- HSS5x1/4 OPERABLE PARTITION SUPPORT POST. SEE DET XXXX FOR BASE AND TOP CONNECTION.
- HSS6x3/8 STAR FRAMING SUPPORT POST BELOW. SEE DET XXXX FOR BASE AND TOP CONNECTION.
- HSS5x3/8 STAR FRAMING SUPPORT POST BELOW. SEE DET XXXX FOR BASE AND TOP CONNECTION.

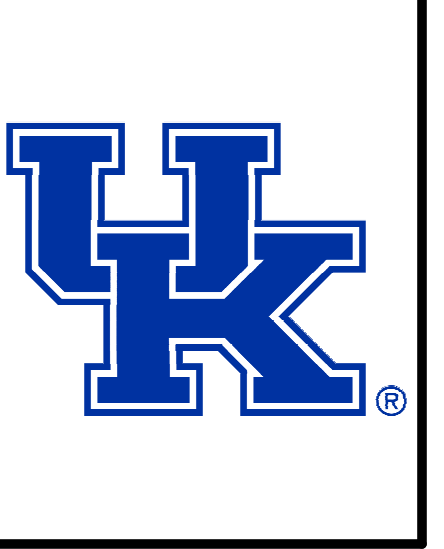
**JRA architects**  
3225 Summit Square Place, Suite 300  
Lexington, Kentucky 40509  
859.252.6781



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**BK BROWN + KUBICAN**  
STRUCTURAL ENGINEERS  
546 East Main Street, Suite 300  
Lexington, KY 40508  
859-543-0933  
www.brownekbk.com

BP-02  
**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



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**GENERAL NOTES & STRUCTURE TAG NOTES**

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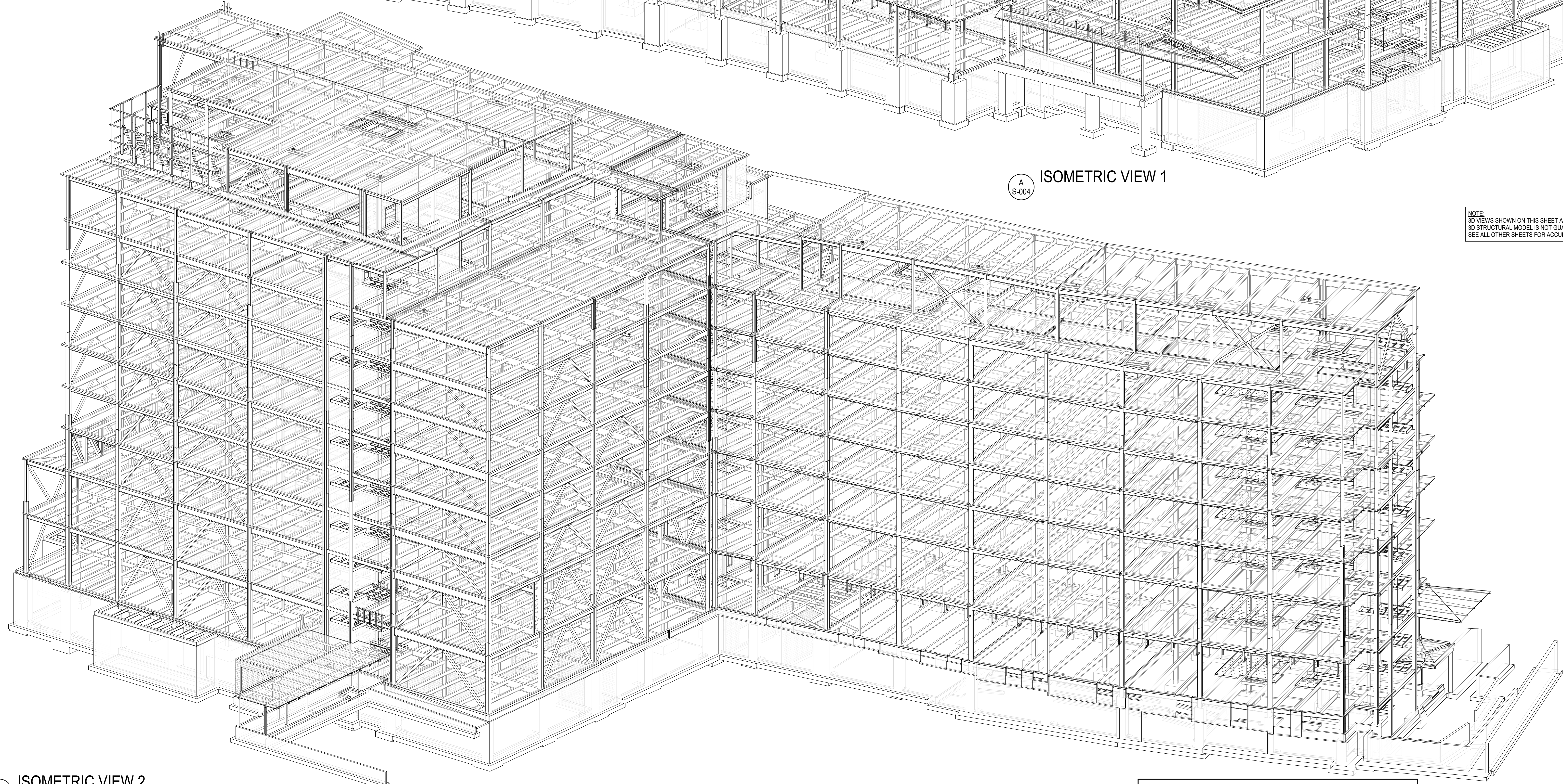


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A  
S-004 ISOMETRIC VIEW 1

NOTE:  
3D VIEWS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY.  
3D STRUCTURAL MODEL IS NOT GUARANTEED TO BE COMPLETE OR EXACT.  
SEE ALL OTHER SHEETS FOR ACCURATE STRUCTURAL PLANS AND DETAILS.



B  
S-004 ISOMETRIC VIEW 2

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**JRA**  
architects

3225 Summit Square Place, Suite 300  
Lexington, Kentucky 40509  
859.252.6781



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**BK**  
BROWN + KUBICAN  
STRUCTURAL ENGINEERS

545 East Main Street, Suite 300  
Lexington, KY 40508  
859-543-0933  
www.brownkubican.com

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MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
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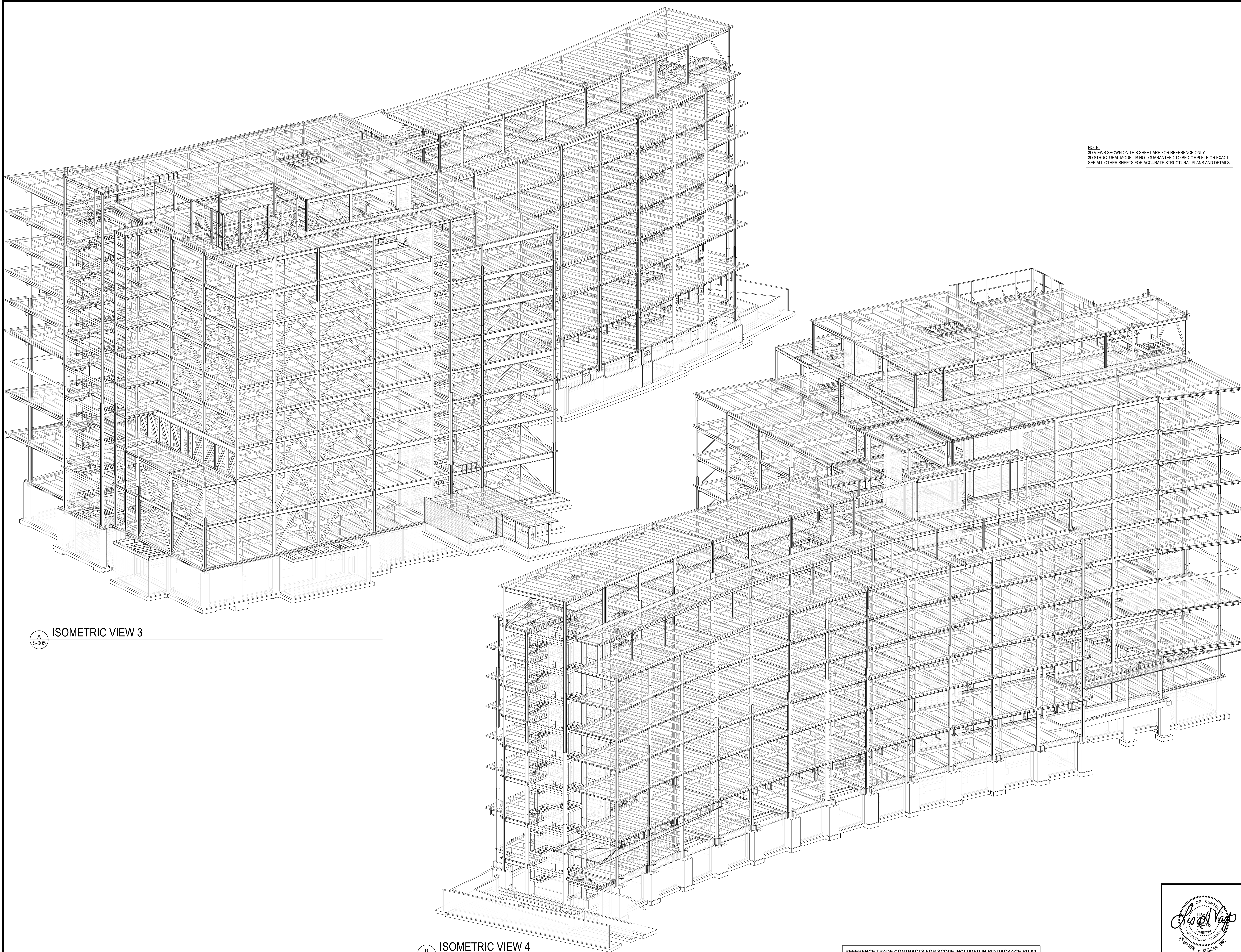
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ISOMETRIC  
VIEWS

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**A**  
S-005  
ISOMETRIC VIEW 3

**B**  
S-005  
ISOMETRIC VIEW 4

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**STRUCTURAL**

PROJECT 202170  
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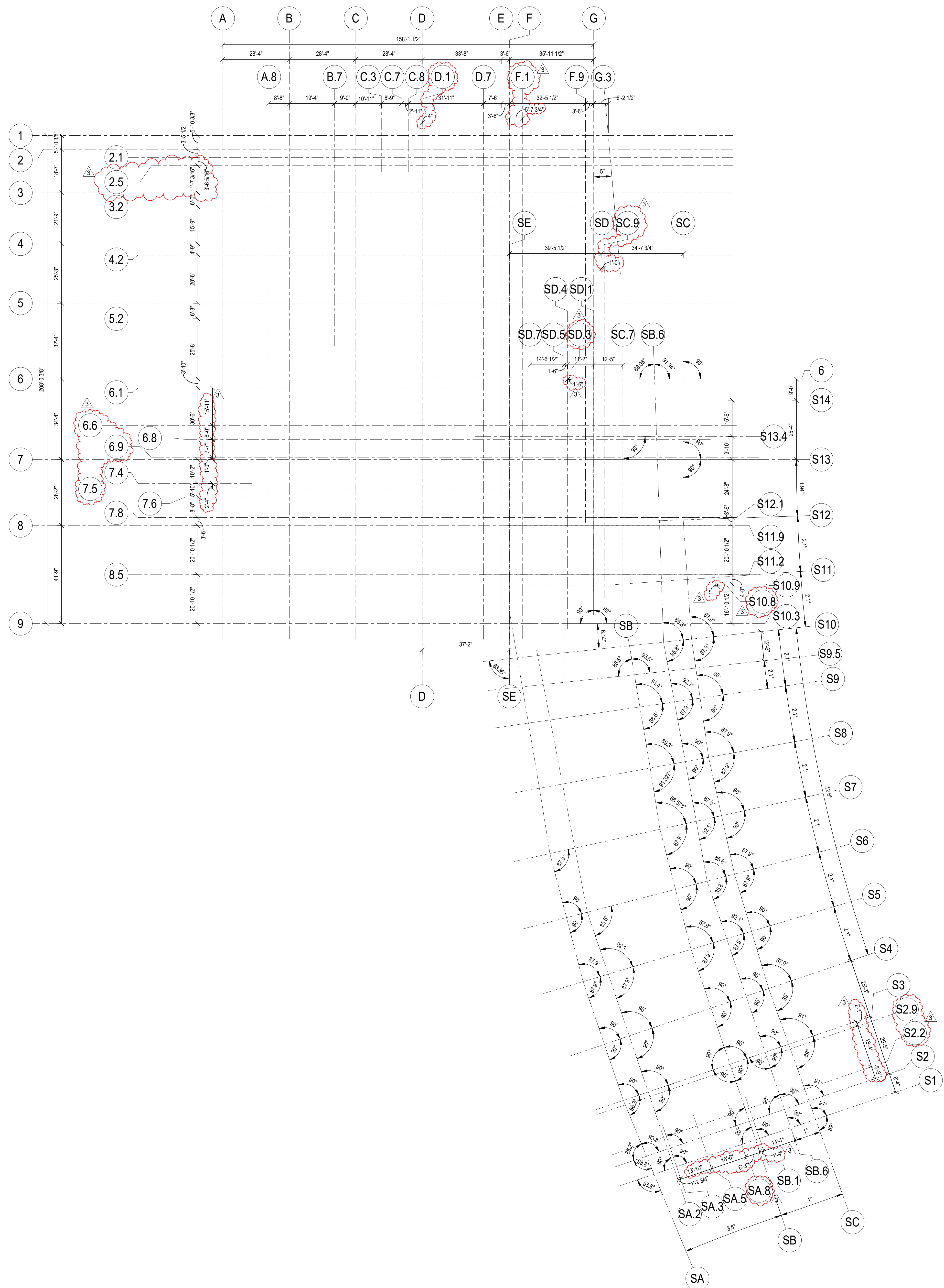
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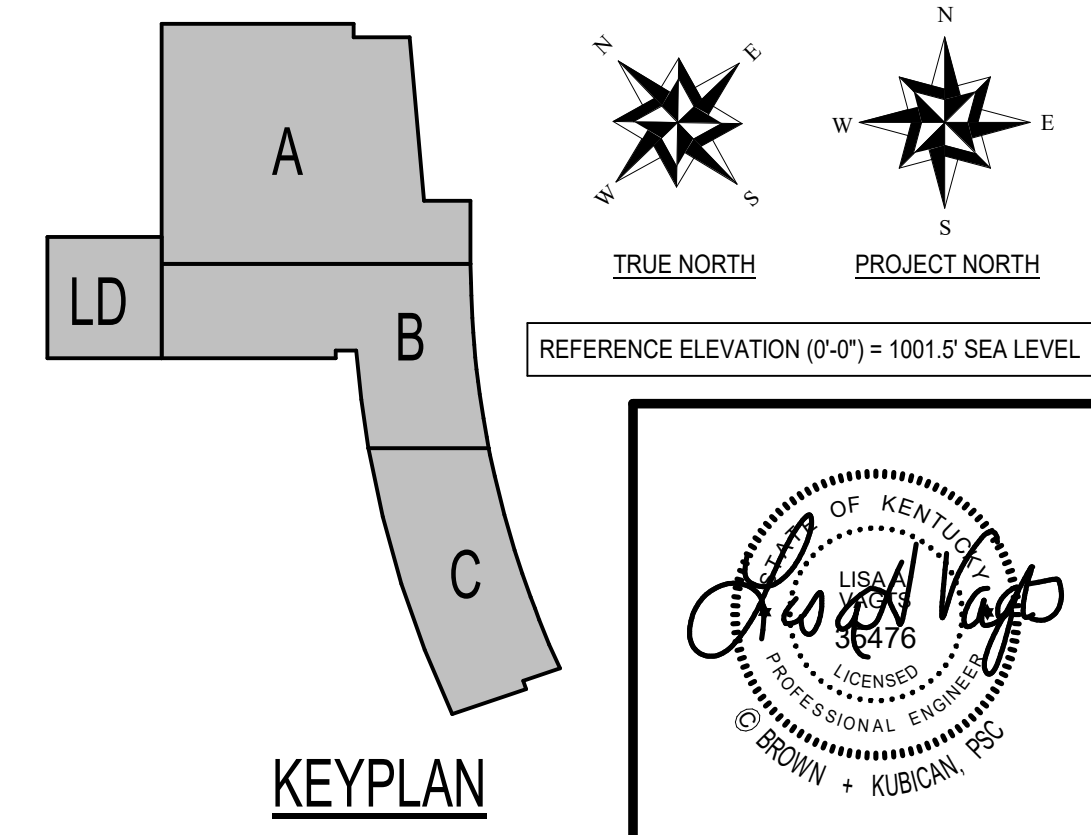


ISOMETRIC VIEWS

S-005



**STRUCTURAL GRID LAYOUT PLAN**  
 1" = 20'-0"



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**BK**  
**BROWN + KUBICAN**  
 STRUCTURAL ENGINEERS  
 546 East Main Street, Suite 300  
 Lexington, KY 40508  
 859-543-0933  
 www.brownskubican.com

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**MICHAEL D. RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
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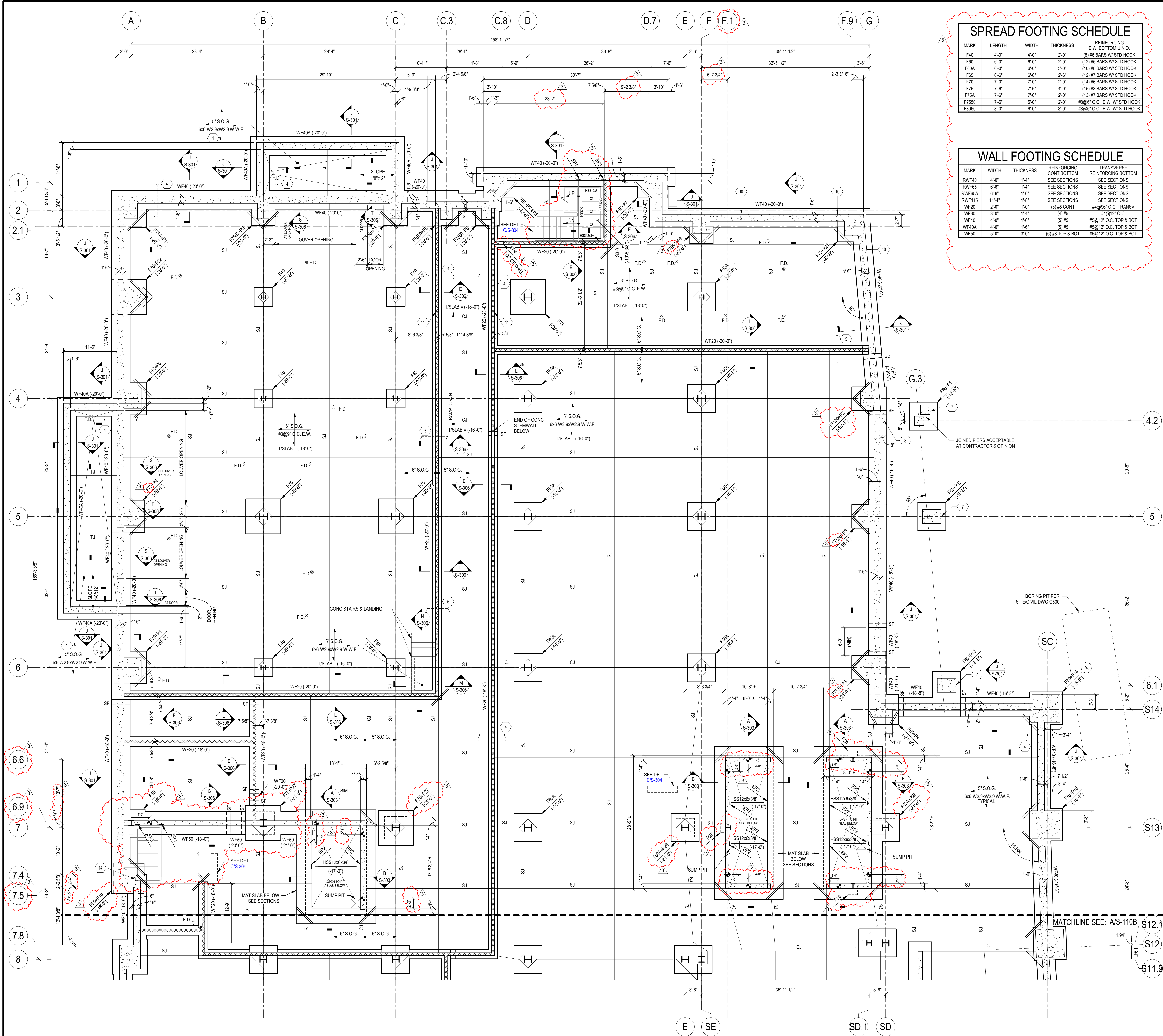
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**STRUCTURAL**  
**GRID LAYOUT**  
**PLAN**

**S-006**  
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### SPREAD FOOTING SCHEDULE

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING E.W. BOTTOM U.N.O.
F40	4'-0"	4'-0"	2'-0"	(8) #8 BARS W/ STD HOOK
F60	6'-0"	6'-0"	2'-0"	(12) #8 BARS W/ STD HOOK
F60A	6'-0"	6'-0"	3'-0"	(10) #8 BARS W/ STD HOOK
F65	6'-0"	6'-0"	2'-0"	(12) #7 BARS W/ STD HOOK
F70	7'-0"	7'-0"	2'-0"	(14) #8 BARS W/ STD HOOK
F75	7'-6"	7'-6"	4'-0"	(15) #8 BARS W/ STD HOOK
F75A	7'-6"	7'-6"	2'-0"	(13) #7 BARS W/ STD HOOK
FF50	7'-6"	5'-0"	2'-0"	#6@8" O.C. E.W. W/ STD HOOK
FB90	8'-0"	6'-0"	3'-0"	#6@8" O.C. E.W. W/ STD HOOK

### WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING CONT BOTTOM	TRANSVERSE REINFORCING BOTTOM
RWF40	4'-0"	1'-4"	SEE SECTIONS	SEE SECTIONS
RWF65	6'-0"	1'-4"	SEE SECTIONS	SEE SECTIONS
RWF65A	6'-0"	1'-4"	SEE SECTIONS	SEE SECTIONS
RWF115	11'-4"	1'-4"	SEE SECTIONS	SEE SECTIONS
WF20	2'-0"	1'-0"	(3) #5 CONT	#4@8" O.C. TRANSV
WF30	3'-0"	1'-4"	(4) #5	#4@12" O.C.
WF40	4'-0"	1'-4"	(5) #5	#5@12" O.C. TOP & BOT
WF40A	4'-0"	1'-4"	(5) #5	#5@12" O.C. TOP & BOT
WF50	5'-0"	3'-0"	(6) #8 TOP & BOT	#5@12" O.C. TOP & BOT

### FOUNDATION PLAN NOTES

- ELEVATIONS SHOWN ARE TO THE TOP OF THE FOUNDATION AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- CENTER ALL WALL FOOTINGS ON WALL CENTERLINE U.N.O.
- CENTER ALL SPREAD FOOTINGS ON COLUMN GRID INTERSECTION U.N.O.
- SEE DWGS S-001 & S-002 FOR GENERAL NOTES AND PLAN TAG NOTES.
- SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
- SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL BUILDING LAYOUT, INCLUDING ALL KINK/VERTEX POINTS FOR FACETED GRIDS.
- SEE S-300 SERIES DRAWINGS FOR COLUMN SCHEDULE.
- SEE S-300 SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.
- SLAB ON GRADE SHALL BE PLACED ON VAPOR RETARDER (SEE SPECIFICATIONS) OVER 6" MINIMUM COMPACTED DENSE GRADED AGGREGATE. SEE DETAIL G/S-304.
- REINFORCE SLABS ON GRADE AT RE-ENTRANT CORNERS PER DETAIL F/S-304. REINFORCING BARS MAY NOT BE SHOWN GRAPHICALLY ON PLAN IN ALL LOCATIONS.
- PROVIDE CONSTRUCTION JOINTS IN SLAB ON GRADE ALIGNING WITH BOTH FACES OF C.M.U. WALLS AT OPENINGS IN INTERIOR WALLS EXTENDING TO FOOTINGS.
- ALL FOOTINGS MUST BE SUPPORTED ON BEDROCK OR STRUCTURAL CONCRETE PLACED OVER BEDROCK. REMOVE ALL SOIL BETWEEN PROPOSED FOUNDATION AND BEDROCK. SEE DETAIL A/S-301.
- FOUNDATION CONCRETE CONTRACTOR SHALL DRILL PROBE HOLES 2"x4"x5' DEEP AT FOUNDATION BEARING SURFACES TO ALLOW FOR SPECIAL INSPECTIONS OF ROCK IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. QUANTITY OF PROBE HOLES SHALL BE AS FOLLOWS:
  - ONE HOLE AT 25'-0" ON CENTER (MAX) BELOW CONTINUOUS FOOTINGS.
  - ONE PROBE HOLE BELOW EACH COLUMN/PIER FOOTING WHERE FOOTING SIZE IS EQUAL TO OR LESS THAN 25 SQUARE FEET.
  - TWO PROBE HOLES BELOW EACH COLUMN/PIER FOOTING WHERE FOOTING SIZE EXCEEDS 25 SQUARE FEET.
  - BASE BID SHALL ACCOUNT FOR 10% ADDITIONAL QUANTITY OF PROBE HOLES TO BE LOCATED AT THE DISCRETION OF THE SPECIAL INSPECTOR OR E.O.R. DURING CONSTRUCTION.

### FOUNDATION LEGEND

- EP1 = EMBEDDED STEEL PLATE. SEE DETAIL J/S-304.
- F40 = SPREAD FOOTING. SEE SCHEDULE.
- WF40 = WALL FOOTING. SEE SCHEDULE.
- RWF40 = RETAINING WALL FOOTING. SEE SCHEDULE.
- P1 = CONCRETE PIER. SEE DETAIL A/S-302.
- SF = STEP FOOTING. SEE DETAIL D/S-301.
- (-16'-8") = TOP OF FOOTING ELEVATION.
- (-3'-4") = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE. SEE DETAIL B/S-304.
- SJ = SAWN CONTRACTION JOINT. SEE DETAIL B/S-304.
- CJ = CONSTRUCTION JOINT. SEE DETAIL B/S-304.
- TJ = TOOLED CONTRACTION JOINT. SEE DETAIL B/S-304.
- PC = PRECAST WALL.
- CC = CONCRETE WALLPIER.
- C.M.U. PARTITION WALL REINFORCED W/ #6@4" O.C. VERT CENTERED IN CORE.
- F.D. = FLOOR DRAIN. SEE DET E/S-304. COORDINATE EXACT DRAIN LOCATION & QUANTITY W/ M.E.P. DWGS.
- TR = TENSION ROCK ANCHOR. SEE DET C/S-303.



3225 Summit Square Place, Suite 300  
Lexington, Kentucky 40509  
859.252.6781



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545 East Main Street, Suite 300  
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859-543-0933  
www.brown+kubican.com

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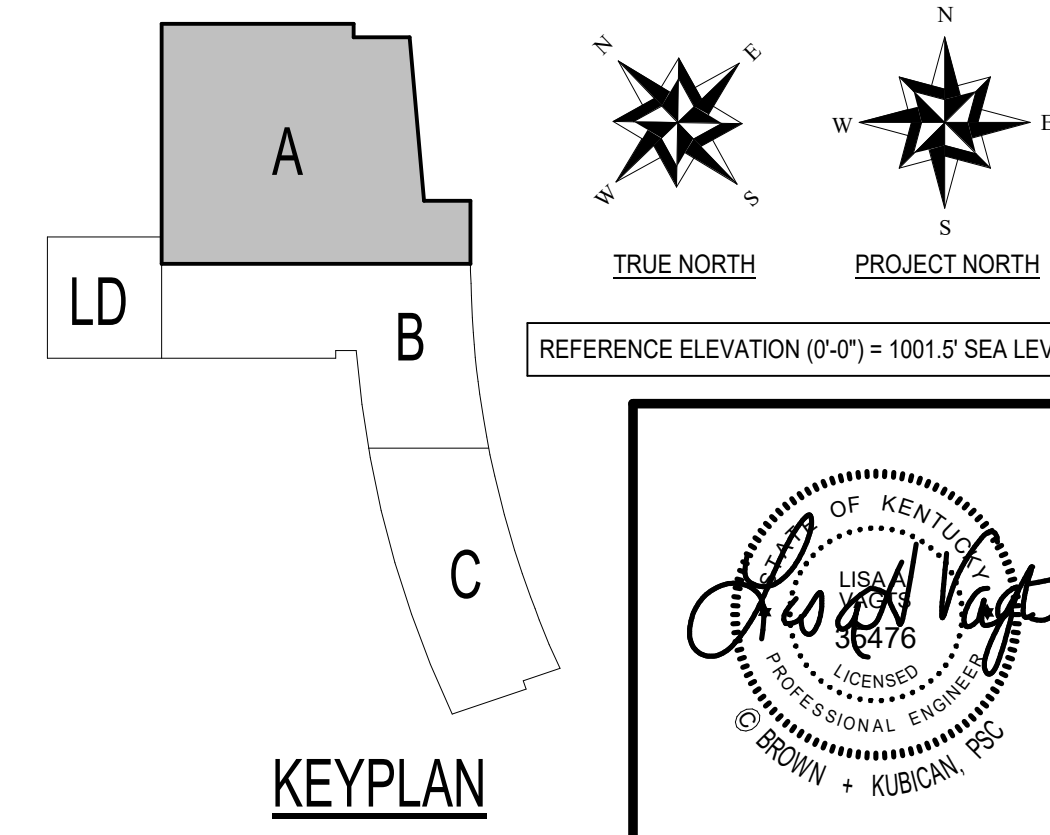


### STRUCTURAL

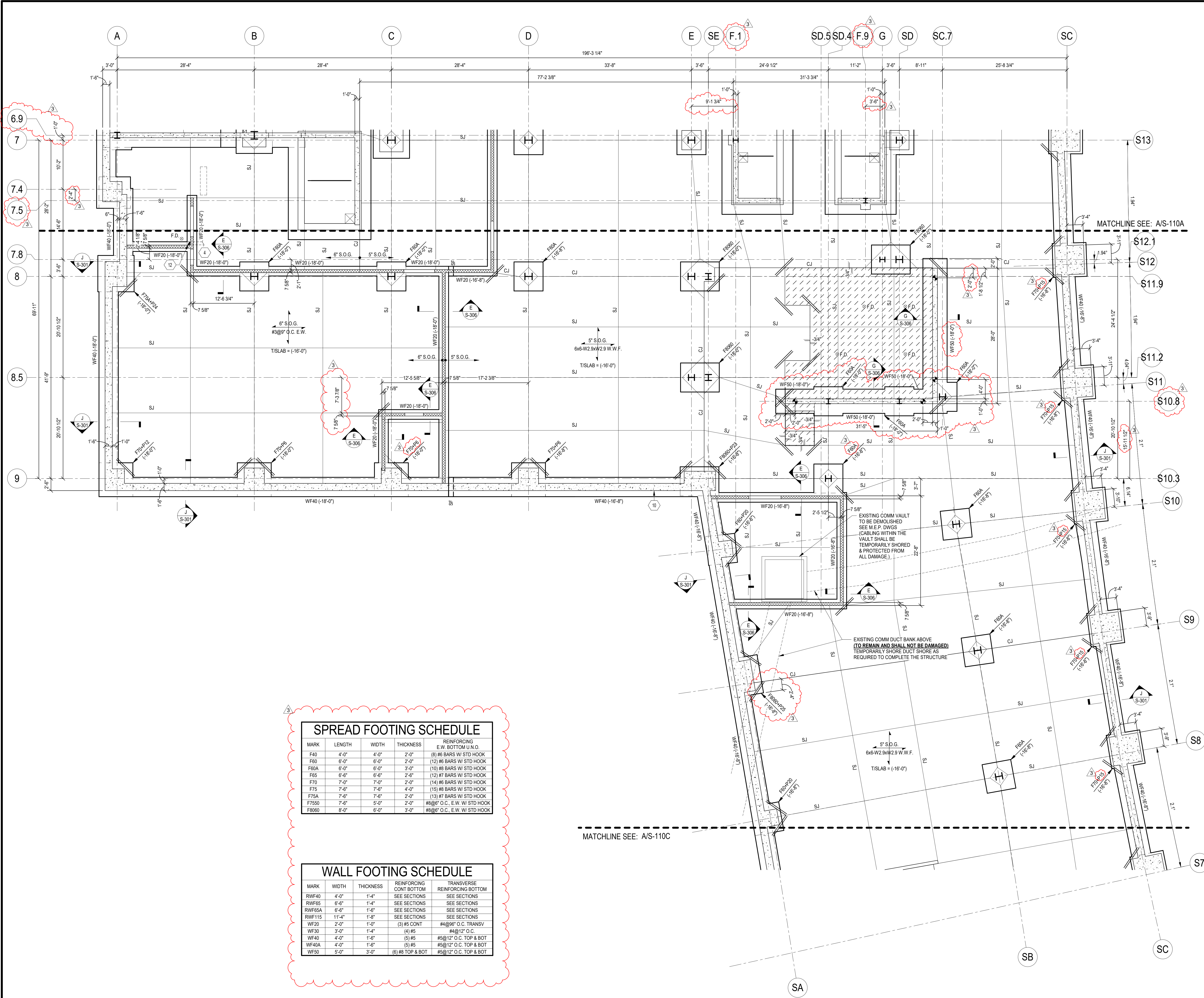
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**FOUNDATION PLAN - BASEMENT LEVEL - AREA A**  
**S-110A**  
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**SPREAD FOOTING SCHEDULE**

MARK	LENGTH	WIDTH	THICKNESS	REINFORCING
F40	4'-0"	4'-0"	2'-0"	(8) #6 BARS W/ STD HOOK
F60	6'-0"	6'-0"	2'-0"	(12) #8 BARS W/ STD HOOK
F60A	6'-0"	6'-0"	3'-0"	(10) #8 BARS W/ STD HOOK
F70	7'-0"	7'-0"	2'-0"	(14) #8 BARS W/ STD HOOK
F75	7'-6"	7'-6"	4'-0"	(15) #8 BARS W/ STD HOOK
F75A	7'-6"	7'-6"	2'-0"	(13) #7 BARS W/ STD HOOK
F75B	7'-6"	5'-0"	2'-0"	#8@8" O.C. E.W. W/ STD HOOK
F80	8'-0"	6'-0"	3'-0"	#8@8" O.C. E.W. W/ STD HOOK

**WALL FOOTING SCHEDULE**

MARK	WIDTH	THICKNESS	REINFORCING	TRANSVERSE REINFORCING BOTTOM
RWF40	4'-0"	1'-4"	SEE SECTIONS	SEE SECTIONS
RWF60	6'-0"	1'-4"	SEE SECTIONS	SEE SECTIONS
RWF65A	6'-6"	1'-6"	SEE SECTIONS	SEE SECTIONS
RWF115	11'-4"	1'-8"	SEE SECTIONS	SEE SECTIONS
WF20	2'-0"	1'-0"	(3) #5 CONT	#4@9" O.C. TRANSV
WF30	3'-0"	1'-4"	(6) #5	#4@12" O.C.
WF40	4'-0"	1'-6"	(5) #5	#5@12" O.C. TOP & BOT
WF40A	4'-0"	1'-6"	(5) #5	#5@12" O.C. TOP & BOT
WF50	5'-0"	3'-0"	(8) #8 TOP & BOT	#5@12" O.C. TOP & BOT

**FOUNDATION PLAN NOTES**

- ELEVATIONS SHOWN ARE TO THE TOP OF THE FOUNDATION AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- CENTER ALL WALL FOOTINGS ON WALL CENTERLINE U.N.O.
- CENTER ALL SPREAD FOOTINGS ON COLUMN GRID INTERSECTION U.N.O.
- SEE DWGS S-001 & S-002 FOR GENERAL NOTES AND PLAN TAG NOTES.
- SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
- SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL BUILDING LAYOUT, INCLUDING ALL KINK/VERTICE POINTS FOR FACETED GRIDS.
- SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULE.
- SEE S-300 SERIES DRAWINGS FOR TYPICAL FOUNDATION DETAILS.
- SLAB ON GRADE SHALL BE PLACED ON VAPOR RETARDER (SEE SPECIFICATIONS) OVER 6" MINIMUM COMPACTED DENSE GRADED AGGREGATE. SEE DETAIL G/S-304.
- REINFORCE SLABS ON GRADE AT RE-ENTRANT CORNERS PER DETAIL F/S-304. REINFORCING BARS MAY NOT BE SHOWN GRAPHICALLY ON PLAN IN ALL LOCATIONS.
- PROVIDE CONSTRUCTION JOINTS IN SLAB ON GRADE ALIGNING WITH BOTH FACES OF C.M.U. WALLS AT OPENINGS IN INTERIOR WALLS EXTENDING TO FOOTINGS.
- ALL FOOTINGS MUST BE SUPPORTED ON BEDROCK OR STRUCTURAL CONCRETE PLACED OVER BEDROCK. REMOVE ALL SOIL BETWEEN PROPOSED FOUNDATION AND BEDROCK. SEE DETAIL A/S-301.
- FOUNDATION CONCRETE CONTRACTOR SHALL DRILL PROBE HOLES 2"x4'-0" DEEP AT FOUNDATION BEARING SURFACES TO ALLOW FOR SPECIAL INSPECTIONS OF ROCK IN ACCORDANCE WITH THE GEOTECHNICAL REPORT RECOMMENDATIONS. QUANTITY OF PROBE HOLES SHALL BE AS FOLLOWS:
  - ONE HOLE AT 25'-0" ON CENTER (MAX) BELOW CONTINUOUS FOOTINGS.
  - ONE PROBE HOLE BELOW EACH COLUMN/PIER FOOTING WHERE FOOTING SIZE IS EQUAL TO OR LESS THAN 25 SQUARE FEET.
  - TWO PROBE HOLES BELOW EACH COLUMN/PIER FOOTING WHERE FOOTING SIZE EXCEEDS 25 SQUARE FEET.
  - BASE BID SHALL ACCOUNT FOR 10% ADDITIONAL QUANTITY OF PROBE HOLES TO BE LOCATED AT THE DISCRETION OF THE SPECIAL INSPECTOR OR E.O.R. DURING CONSTRUCTION.

**FOUNDATION LEGEND**

- EP1 = EMBEDDED STEEL PLATE. SEE DETAIL J/S-304.
- F40 = SPREAD FOOTING. SEE SCHEDULE.
- WF40 = WALL FOOTING. SEE SCHEDULE.
- RWF40 = RETAINING WALL FOOTING. SEE SCHEDULE.
- P1 = CONCRETE PIER. SEE DETAIL S/S-302.
- SF = STEP FOOTING. SEE DETAIL D/S-301.
- (-16'-8") = TOP OF FOOTING ELEVATION.
- (-16'-4") = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE. SEE DETAIL B/S-304.
- SJ = SAWN CONTRACTION JOINT. SEE DETAIL B/S-304.
- CJ = CONSTRUCTION JOINT. SEE DETAIL B/S-304.
- TJ = TOOLED CONTRACTION JOINT. SEE DETAIL B/S-304.
- PC = PRECAST WALL.
- CC = CONCRETE WALL/PIER.
- C.M.U. PARTITION WALL REINFORCED W/ #6@4" O.C. VERT CENTERED IN CORE.
- F.D. = FLOOR DRAIN. SEE DET E/S-304. COORDINATE EXACT DRAIN LOCATION & QUANTITY W/ M.E.P. DWGS.
- TR = TENSION ROCK ANCHOR. SEE DET C/S-303.



3225 Summit Square Place, Suite 300  
Lexington, Kentucky 40509  
859.252.6781



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546 East Main Street, Suite 300  
Lexington, KY 40508  
859-543-0933  
www.browncubican.com

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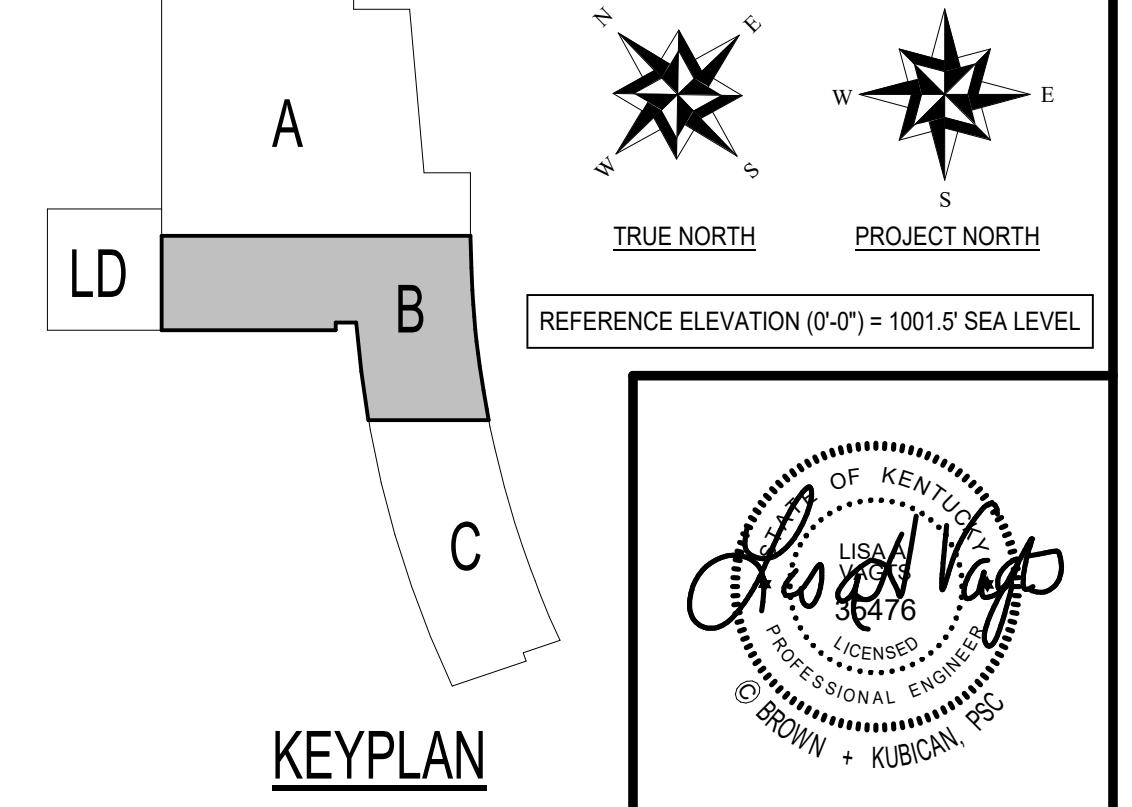
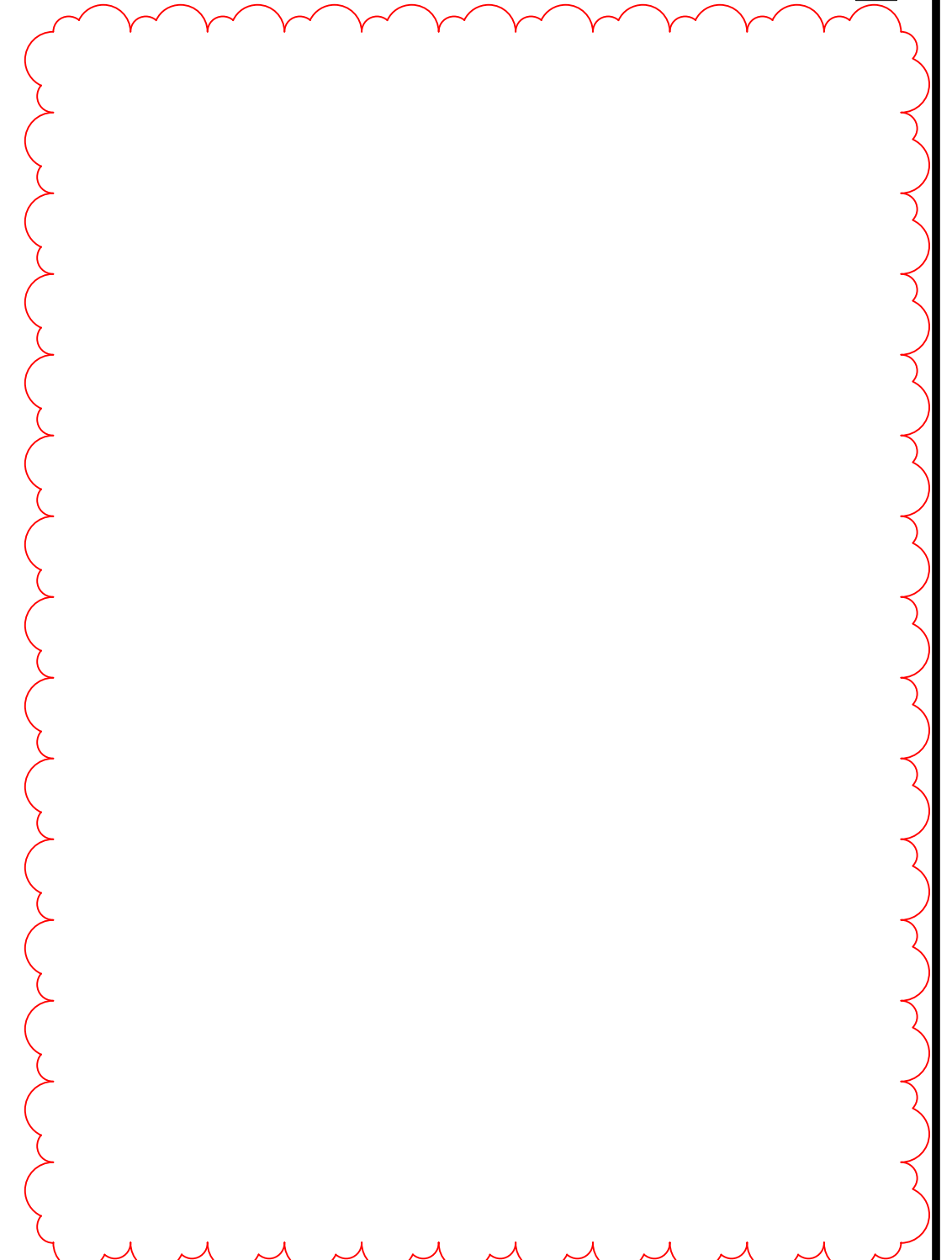


**STRUCTURAL**

PROJECT	202170
DATE	03.18.24
REVISIONS	
No.	Description
3	BP-02 - Add 3
	Date
	04/03/24

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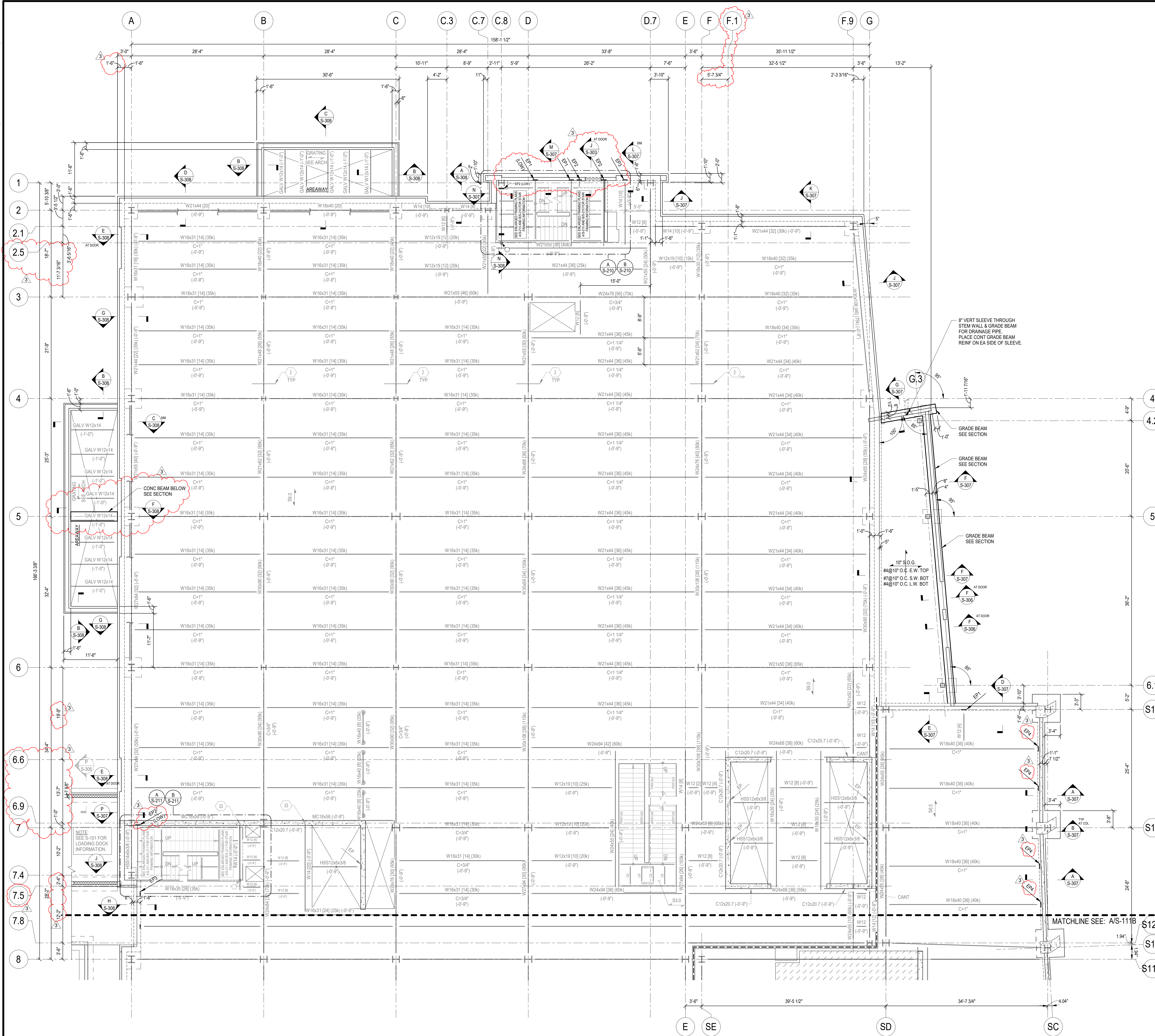
**FOUNDATION PLAN - BASEMENT LEVEL - AREA B**  
**S-110B**  
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REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-02. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY.

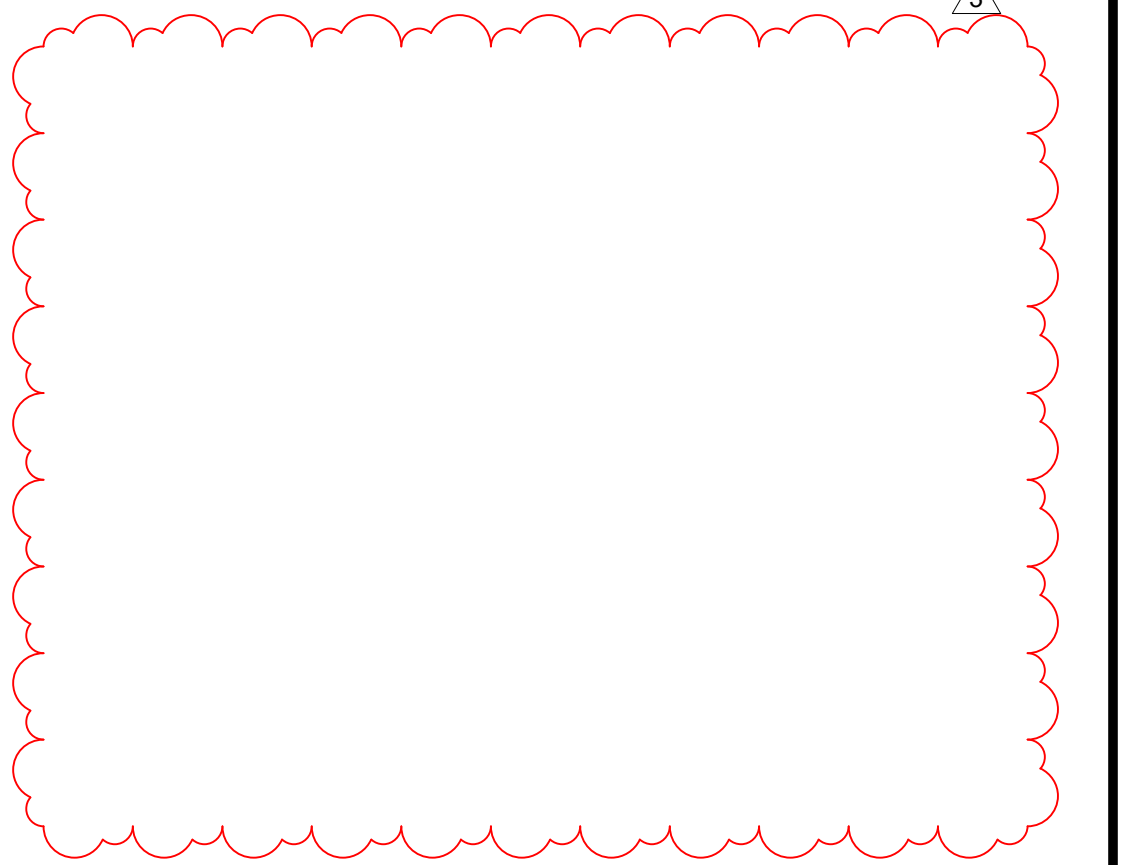
**FOUNDATION PLAN - BASEMENT LEVEL - AREA B**  
1/8" = 1'-0"





- ### FRAMING PLAN NOTES
- ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
  - FINISHED FIRST FLOOR ELEVATION (+0'-0")  
FINISHED SECOND FLOOR ELEVATION (+2'-0")  
FINISHED THIRD FLOOR ELEVATION (+4'-0")  
FINISHED FOURTH FLOOR ELEVATION (+6'-0")  
FINISHED FIFTH FLOOR ELEVATION (+8'-0")  
FINISHED SIXTH FLOOR ELEVATION (+10'-0")  
FINISHED SEVENTH FLOOR ELEVATION (+12'-0")  
FINISHED EIGHTH FLOOR ELEVATION (+14'-0")  
FINISHED NINTH FLOOR ELEVATION (+16'-0")  
FINISHED TENTH FLOOR ELEVATION (+18'-0")  
FINISHED NORTH WING PENTHOUSE FLOOR ELEVATION (+14'-0")  
FINISHED NORTH WING PENTHOUSE ROOF DECK ELEVATION (+16'-0")
  - TOP OF FIRST FLOOR STEEL BEAMS = +0'-0" U.O.  
TOP OF SECOND FLOOR STEEL BEAMS = +2'-0" U.O.  
TOP OF THIRD FLOOR STEEL BEAMS = +4'-0" U.O.  
TOP OF FOURTH FLOOR STEEL BEAMS = +6'-0" U.O.  
TOP OF FIFTH FLOOR STEEL BEAMS = +8'-0" U.O.  
TOP OF SIXTH FLOOR STEEL BEAMS = +10'-0" U.O.  
TOP OF SEVENTH FLOOR STEEL BEAMS = +12'-0" U.O.  
TOP OF EIGHTH FLOOR STEEL BEAMS = +14'-0" U.O.  
TOP OF NINTH FLOOR STEEL BEAMS = +16'-0" U.O.  
TOP OF TENTH FLOOR STEEL BEAMS = +18'-0" U.O.  
TOP OF NORTH WING PENTHOUSE FLOOR STEEL BEAMS = +14'-0" U.O.  
TOP OF NORTH WING PENTHOUSE ROOF DECK STEEL BEAMS = +16'-0" U.O.
  - SEE DWGS S-001 & S-002 FOR GENERAL NOTES.
  - SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
  - SEE DWG S-008 FOR DIMENSIONED OVERALL STRUCTURAL GRIDS LAYOUT, INCLUDING ALL KINK/VERTEX POINTS FOR FACETED GRIDS.
  - SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULES.
  - SEE S-400 SERIES DRAWINGS FOR TYPICAL FRAMING DETAILS.
  - SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.O.
  - SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE S-111 FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

- ### FRAMING LEGEND
- 15WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.
  - SS-5 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2 1W.W.F. ON 2' 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5 1/2" TOTAL THICKNESS).
  - SS-6 = 4 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W2 1W.W.F. ON 2' 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
  - SS-9 = 6" NORMAL WEIGHT CONCRETE REINFORCED W/ 6x6-W4 DW4.0 W.W.F. ON 3' 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (8" TOTAL THICKNESS).
  - (XX) = TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS.
  - STEEL BEAM SIZE, NUMBER OF SHEARS, ZERO IF BLANK. SERVICE LOAD REACTION (RIPS) EACH END.
  - C-3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).
  - (+20'-5 1/2") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
  - (M) = MOMENT CONNECTION. SEE DETAIL XXXX.
  - (C) = COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL XXXX. SEE SCHEDULE ON XXXX.
  - (D) = DIAGONAL BRACING. SEE S-200 SERIES DRAWINGS FOR BRACE ELEVATIONS.
  - (U) = COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
  - (HSS6x6x3/8) = HSS6x6x3/8 STEEL HANGER BELOW. SEE DETAIL XS-XXX FOR TOP CONNECTION AND DETAIL XS-XXX FOR BOTTOM CONNECTION.
  - (HSS4x4x1/8) = HSS4x4x1/8 STEEL HANGER BELOW. SEE DETAIL XS-XXX FOR TOP CONNECTION AND BOTTOM CONNECTION.
  - (W) = PRECAST WALL.
  - (W) = WALL BELOW DECK.
  - EP1 = EMBEDDED STEEL PLATE. SEE DETAIL US-304.
  - EP-PC = EMBEDDED STEEL PLATE BY PRECAST CONCRETE DESIGNER/SUPPLIER.
  - BP1 = STEEL BEARING PLATE. SEE DETAIL HS-305.
  - FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL XXXX.
  - CANT = CANTILEVER BEAM END. SEE DET XXX.
  - 1/2" = EXTENT OF SLAB DEPRESSION, DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
  - 1/4" = ROOF SLOPE.
  - RD 0 = ROOF DRAIN. SEE DET XXXX FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
  - W12 = W12x19 (15k).
  - W14 = W14x22 (15k).



KEYPLAN

REFERENCE ELEVATION (0'-0") = 1001.5 SEA LEVEL

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architects

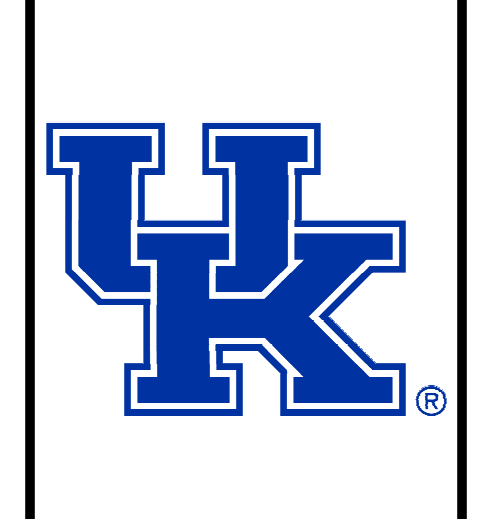
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859.252.6781

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STRUCTURAL ENGINEERS

546 East Main Street, Suite 300  
Lexington, KY 40508  
859-543-0933  
www.brownsk.com

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STRUCTURAL		
PROJECT	202170	
DATE	03.18.24	
REVISIONS		
No.	Description	Date
3	BP-02_A25.3	04/03/24

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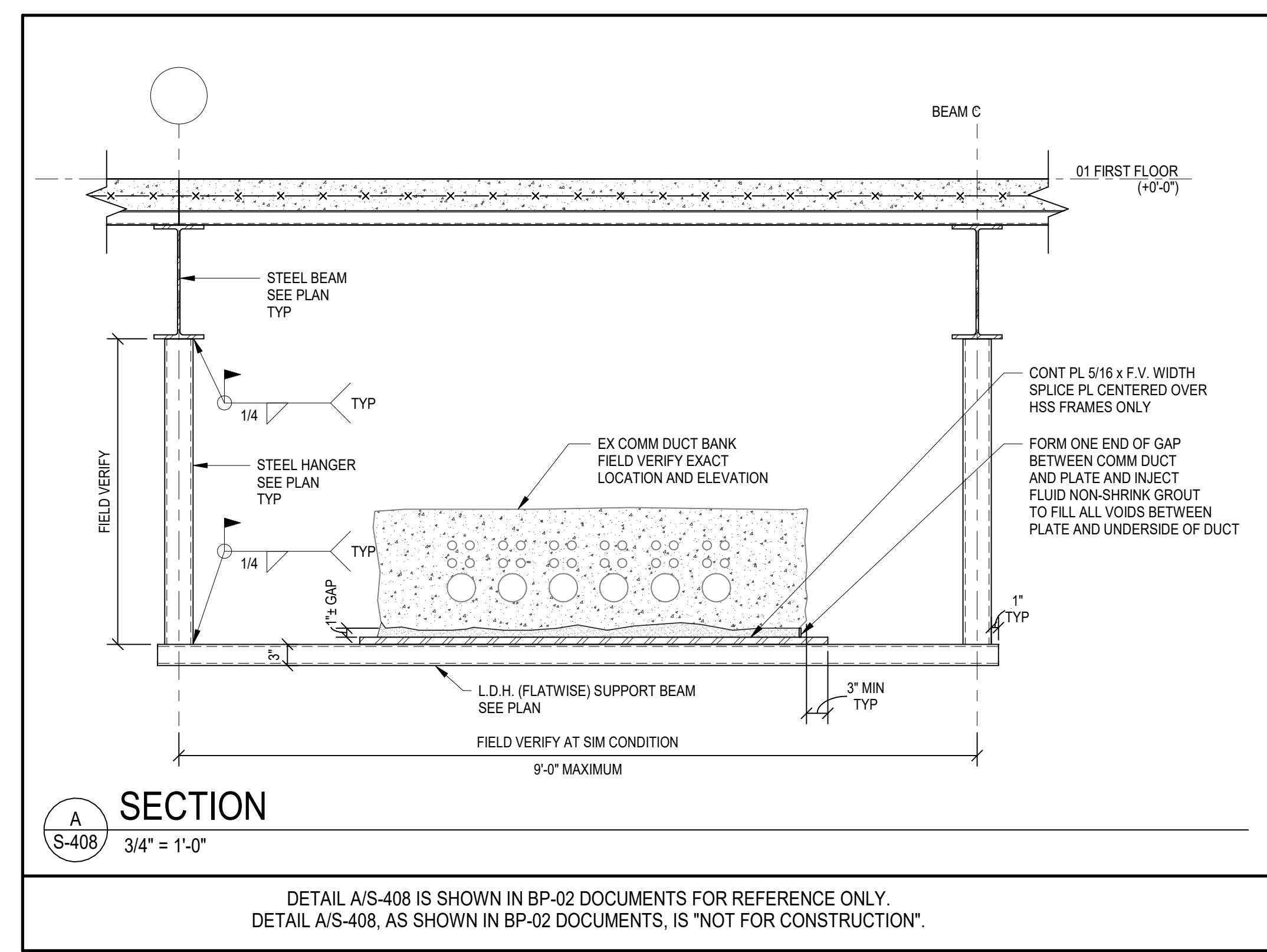
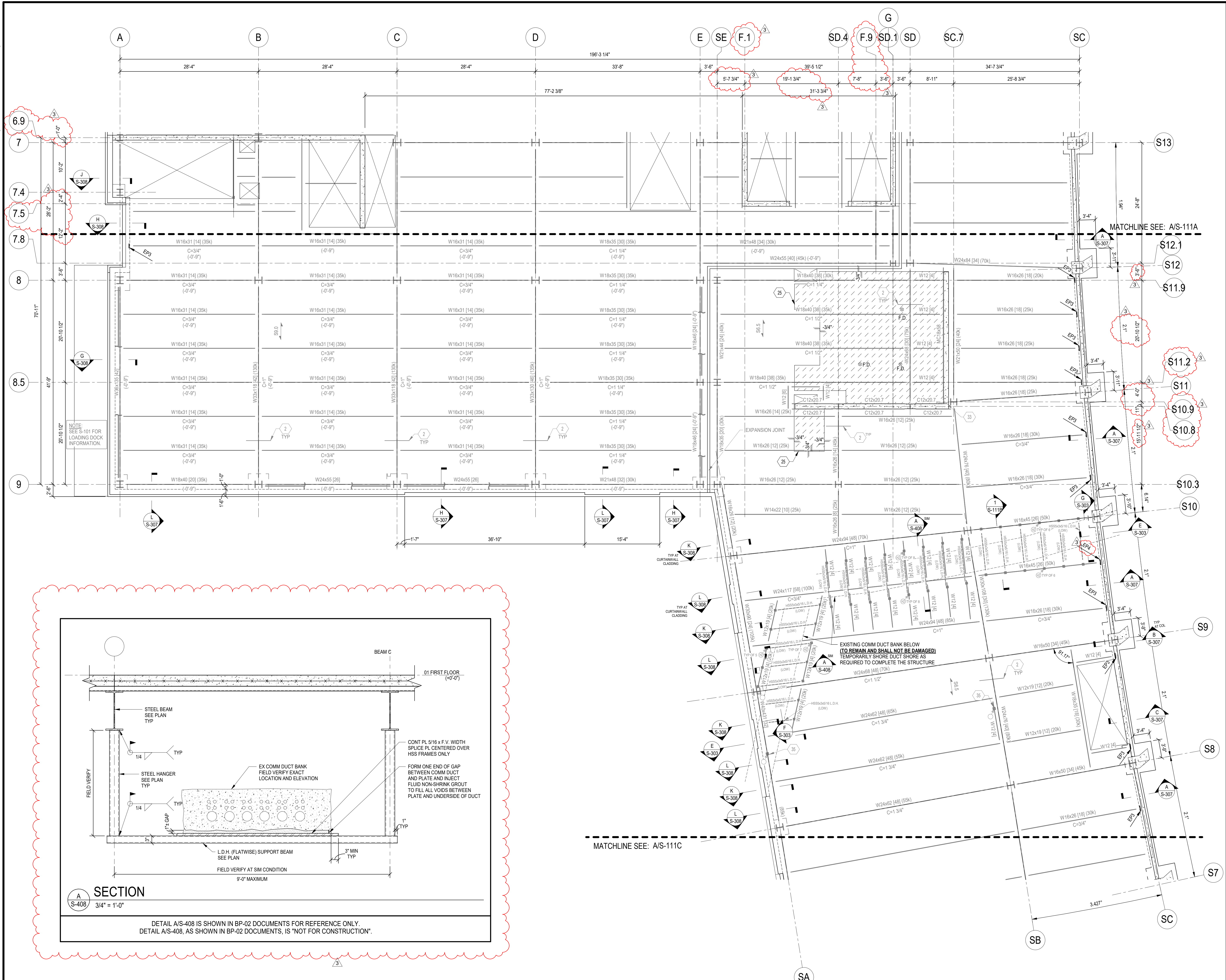
**FRAMING PLAN**  
**- FIRST FLOOR**  
**- AREA A**

**S-111A**

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**FRAMING PLAN - FIRST FLOOR - AREA A**  
S-111A  
1/8" = 1'-0"

REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-02. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY.

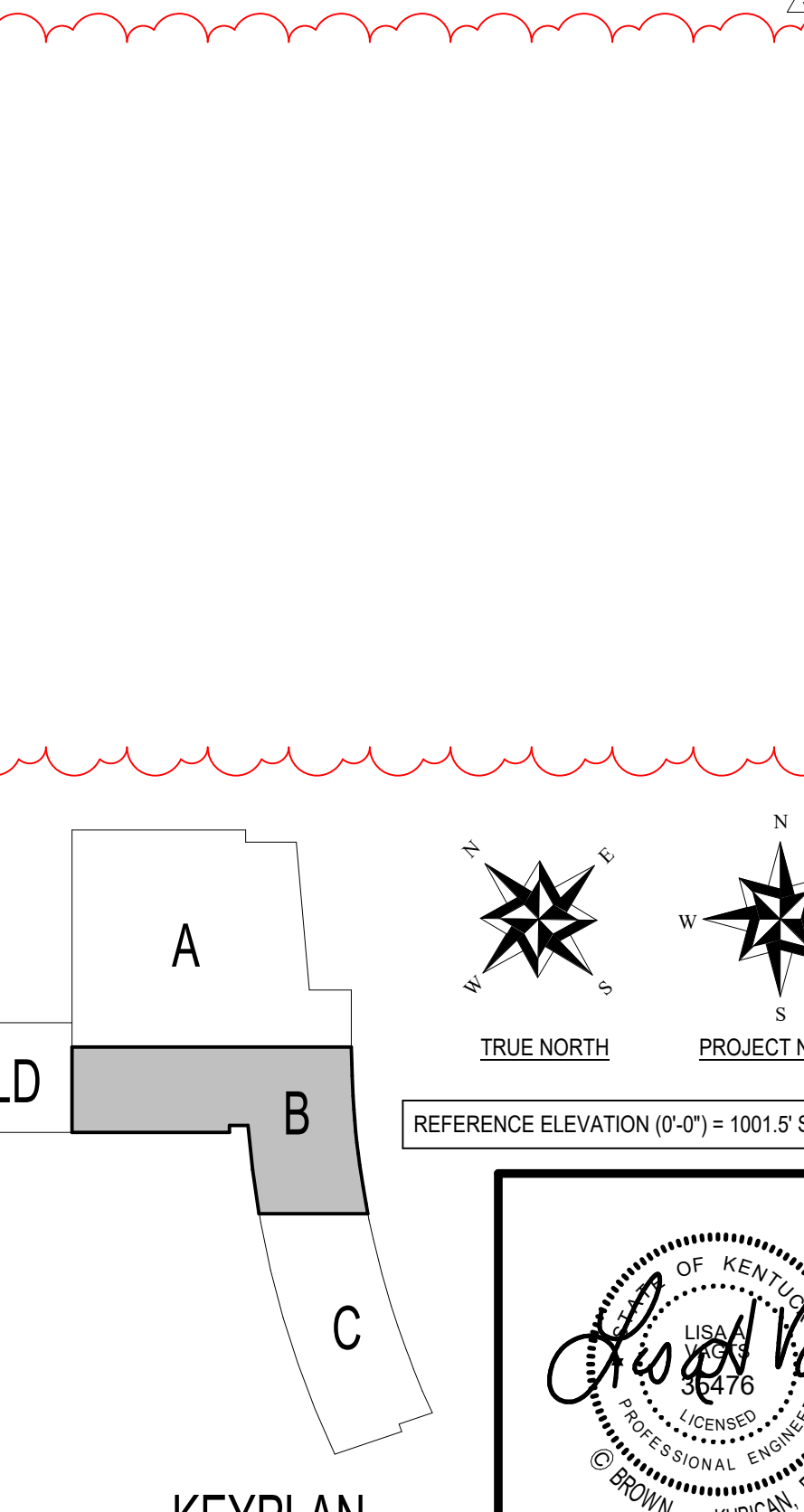


FRAMING PLAN - FIRST FLOOR - AREA B  
1/8" = 1'-0"

- ### FRAMING PLAN NOTES
- ELEVATIONS SHOWN ARE TO THE TOP OF STEEL AND ARE REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
  - FINISHED FIRST FLOOR ELEVATION (+0'-0")  
FINISHED SECOND FLOOR ELEVATION (+2'-0")  
FINISHED THIRD FLOOR ELEVATION (+4'-0")  
FINISHED FOURTH FLOOR ELEVATION (+6'-0")  
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FINISHED NINTH FLOOR ELEVATION (+16'-0")  
FINISHED TENTH FLOOR ELEVATION (+18'-0")  
FINISHED NORTH WING PENTHOUSE FLOOR ELEVATION (+14'-0")  
FINISHED NORTH WING PENTHOUSE ROOF DECK ELEVATION (+16'-0")
  - TOP OF FIRST FLOOR STEEL BEAMS = +0'-6 1/2" U.N.O.  
TOP OF SECOND FLOOR STEEL BEAMS = +2'-6 1/2" U.N.O.  
TOP OF THIRD FLOOR STEEL BEAMS = +4'-6 1/2" U.N.O.  
TOP OF FOURTH FLOOR STEEL BEAMS = +6'-6 1/2" U.N.O.  
TOP OF FIFTH FLOOR STEEL BEAMS = +8'-6 1/2" U.N.O.  
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TOP OF TENTH FLOOR STEEL BEAMS = +18'-6 1/2" U.N.O.  
TOP OF NORTH WING PENTHOUSE FLOOR STEEL BEAMS = +14'-11 1/2" U.N.O.  
TOP OF NORTH WING PENTHOUSE ROOF STEEL BEAMS = +16'-9 1/2" U.N.O.
  - SEE DWGS S-001 & S-002 FOR GENERAL NOTES.
  - SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
  - SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL GRIDS LAYOUT, INCLUDING ALL KINK/VERTICE POINTS FOR FACED GRIDS.
  - SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULES.
  - SEE S-400 SERIES DRAWINGS FOR TYPICAL FRAMING DETAILS.
  - SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
  - SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE \_\_\_\_\_ FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

- ### FRAMING LEGEND
- 15WR20 = 1 1/2" x 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.
  - SS.5 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#x-W2 1W.F. ON 2' 0" x 2' 0" GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5 1/2" TOTAL THICKNESS).
  - SS.6 = 4 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#x-W2 1W.F. ON 2' 0" x 2' 0" GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
  - SS.9 = 6" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#x-W4 4W.F. ON 3' 0" x 3' 0" GA GALVANIZED COMPOSITE STEEL FLOOR DECK (8" TOTAL THICKNESS).
  - (XXX) = TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS.
  - STEEL BEAM SIZE, NUMBER OF SHEAR STUDS, ZERO & BLANK SERVICE LOAD REACTION (RIPS) EACH END.
  - C-3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).
  - (+20'-5 1/2") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
  - MET = MOMENT CONNECTION. SEE DETAIL XXXX.
  - COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL XXXX. SEE SCHEDULE ON XXXX.
  - DIAGONAL BRACING. SEE S-200 SERIES DRAWINGS FOR BRACE ELEVATIONS.
  - COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
  - HSS6x6x3/8 STEEL HANGER BELOW. SEE DETAIL XS-XXX FOR TOP CONNECTION AND DETAIL XS-XXX FOR BOTTOM CONNECTION.
  - HSS4x4x1/8 STEEL HANGER BELOW. SEE DETAIL XS-XXX FOR TOP CONNECTION AND BOTTOM CONNECTION.
  - PRECAST WALL.
  - WALL BELOW DECK.
  - EP1 = EMBEDDED STEEL PLATE. SEE DETAIL US-304.
  - EP-PC = EMBEDDED STEEL PLATE BY PRECAST CONCRETE DESIGNER/SUPPLIER.
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  - CANT = CANTILEVER BEAM END. SEE DET XXX.
  - 12 = EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
  - 1/4" = ROOF SLOPE.
  - RD 0 = ROOF DRAIN. SEE DET XXXX FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
  - W12 = W12x19 (15k).
  - W14 = W14x22 (15k).

- ### FRAMING PLAN NOTES (Continued)
- SEE DWGS S-001 & S-002 FOR GENERAL NOTES.
  - SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
  - SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL GRIDS LAYOUT, INCLUDING ALL KINK/VERTICE POINTS FOR FACED GRIDS.
  - SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULES.
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  - SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE \_\_\_\_\_ FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.



REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-02. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY.

**JRA architects**  
3225 Summit Square Plaza, Suite 300  
Lexington, Kentucky 40509  
859.252.6781

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STRUCTURAL ENGINEERS  
546 East Main Street, Suite 300  
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BP-02

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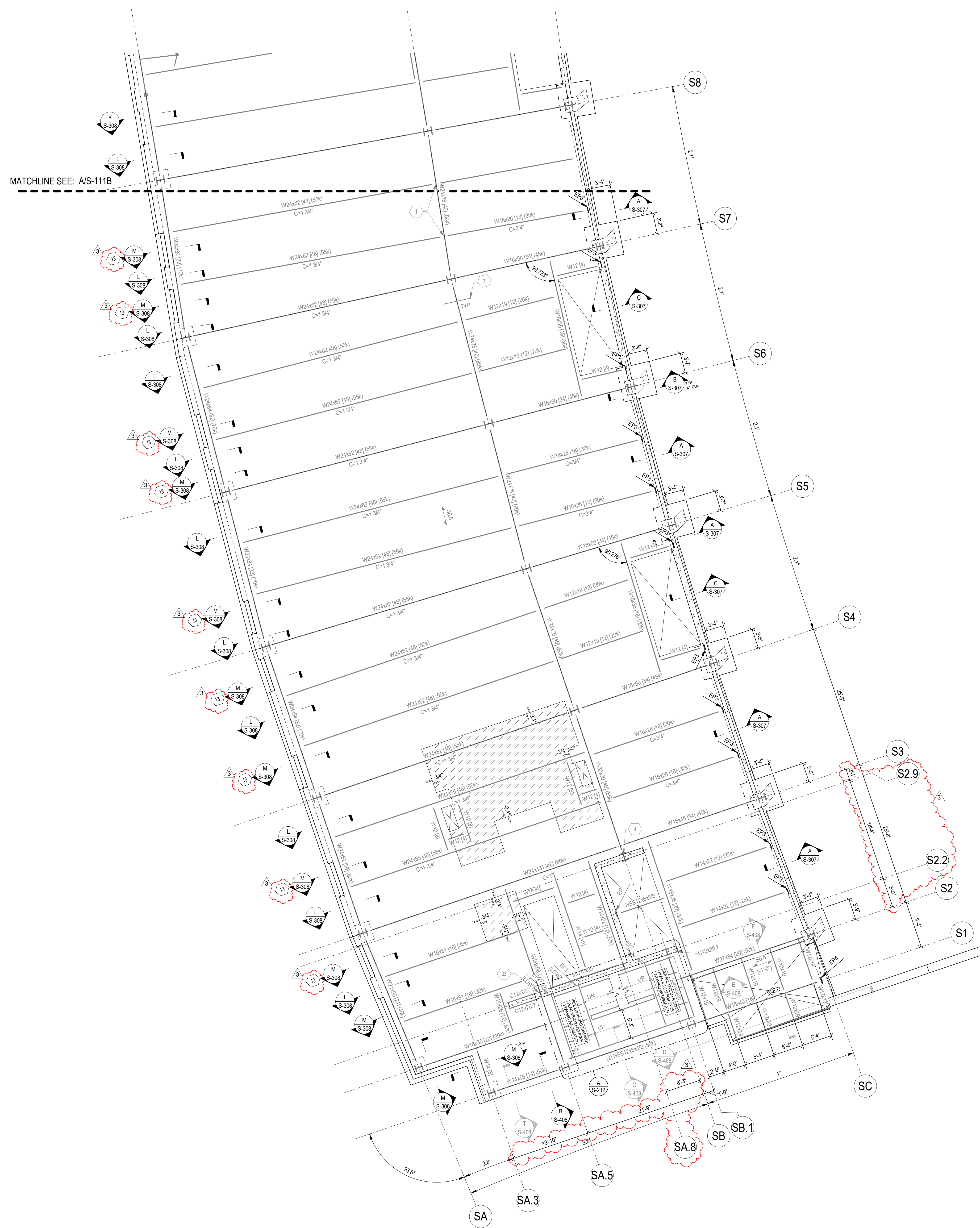
PROJECT	202170	
DATE	03.18.24	
REVISIONS		
No.	Description	Date
3	BP-02 - Add 3	04/03/24

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**FRAMING PLAN - FIRST FLOOR - AREA B**

**S-111B**

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FRAMING PLAN - FIRST FLOOR - AREA C  
1/8" = 1'-0"

A  
S-111C

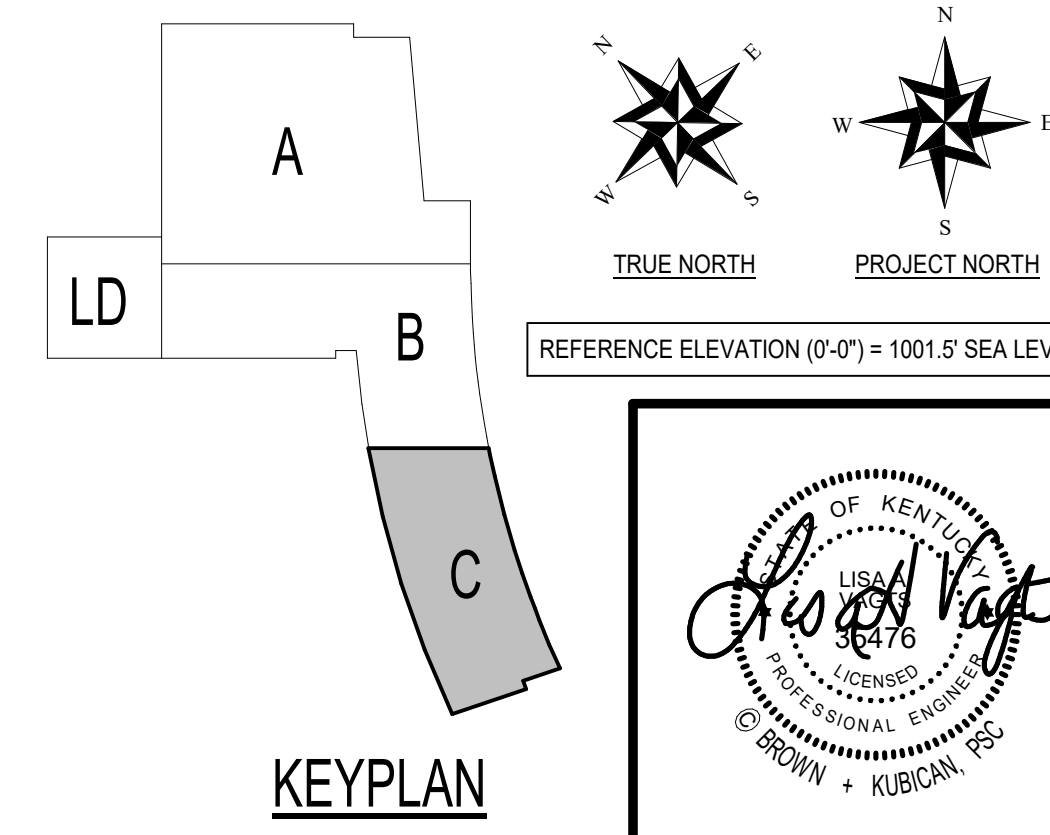
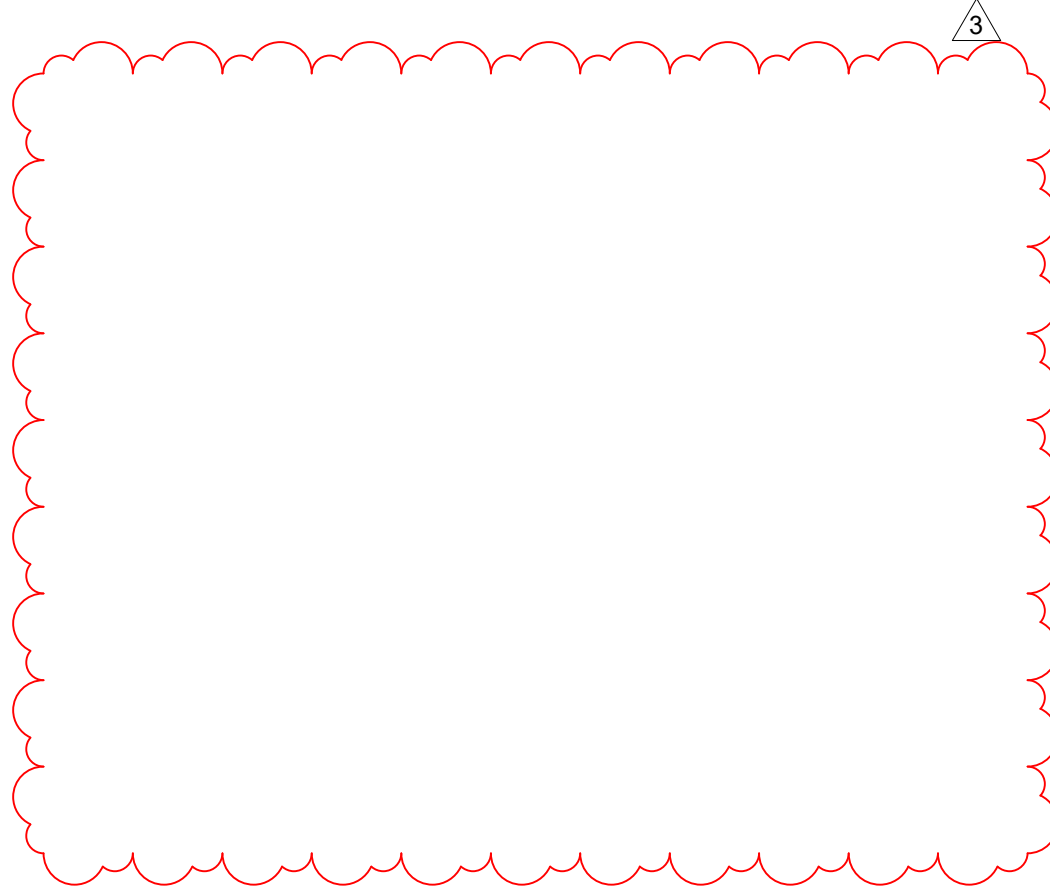
REFERENCE TRADE CONTRACTS FOR SCOPE INCLUDED IN BID PACKAGE BP-02. ALL OTHER INFORMATION SHOWN FOR REFERENCE ONLY.

### FRAMING PLAN NOTES

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- FINISHED FIRST FLOOR ELEVATION (+0'-0")  
FINISHED SECOND FLOOR ELEVATION (+2'-0")  
FINISHED THIRD FLOOR ELEVATION (+4'-0")  
FINISHED FOURTH FLOOR ELEVATION (+6'-0")  
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FINISHED NINTH FLOOR ELEVATION (+16'-0")  
FINISHED TENTH FLOOR ELEVATION (+18'-0")  
FINISHED NORTH WING PENTHOUSE FLOOR ELEVATION (+18'-0")  
FINISHED NORTH WING PENTHOUSE ROOF DECK ELEVATION (+18'-0")
- TOP OF FIRST FLOOR STEEL BEAMS = +0'-6 1/2" U.N.O.  
TOP OF SECOND FLOOR STEEL BEAMS = +2'-6 1/2" U.N.O.  
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TOP OF SEVENTH FLOOR STEEL BEAMS = +12'-6 1/2" U.N.O.  
TOP OF EIGHTH FLOOR STEEL BEAMS = +14'-6 1/2" U.N.O.  
TOP OF NINTH FLOOR STEEL BEAMS = +16'-6 1/2" U.N.O.  
TOP OF TENTH FLOOR STEEL BEAMS = +18'-6 1/2" U.N.O.  
TOP OF NORTH WING PENTHOUSE FLOOR STEEL BEAMS = +18'-11 1/2" U.N.O.  
TOP OF NORTH WING PENTHOUSE ROOF STEEL BEAMS = +18'-0 1/2" U.N.O.
- SEE DWGS S-001 & S-002 FOR GENERAL NOTES.
- SEE DWG S-003 FOR SPECIAL INSPECTION NOTES.
- SEE DWG S-006 FOR DIMENSIONED OVERALL STRUCTURAL GRIDS LAYOUT, INCLUDING ALL KINK/VERTEX POINTS FOR FACETED GRIDS.
- SEE S-200 SERIES DRAWINGS FOR COLUMN SCHEDULES.
- SEE S-400 SERIES DRAWINGS FOR TYPICAL FRAMING DETAILS.
- SPACE BEAMS / JOISTS EVENLY THROUGHOUT BAY U.N.O.
- SIZE AND LOCATION OF ROOF TOP MECHANICAL UNITS SHALL BE COORDINATED WITH THE MECHANICAL CONTRACTOR. OPERATING WEIGHT OF UNIT (INCLUDING CURBS) SHALL NOT EXCEED WEIGHT SHOWN ON PLAN. SEE \_\_\_\_\_ FOR ADDITIONAL FRAMING REQUIREMENTS AT UNITS.

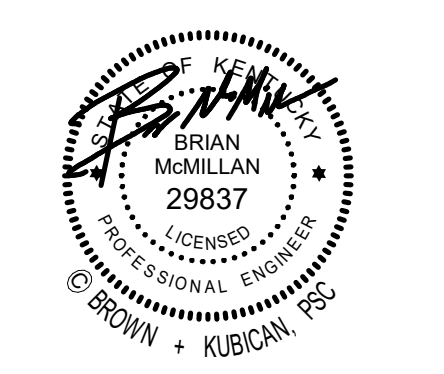
### FRAMING LEGEND

- 15WR20 = 1 1/2" 20 GA GALVANIZED WIDE RIB STEEL ROOF DECK.
- SS.5 = 3 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#5-W2 1W.W.F. ON 2' 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (5 1/2" TOTAL THICKNESS).
- SS.6 = 4 1/2" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#5-W2 1W2 1W.W.F. ON 2' 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (6 1/2" TOTAL THICKNESS).
- SS.9 = 6" NORMAL WEIGHT CONCRETE REINFORCED W/ 6#5-W4 D#4 0 W.W.F. ON 3' 18 GA GALVANIZED COMPOSITE STEEL FLOOR DECK (9" TOTAL THICKNESS).
- TOP OF STEEL (BOTTOM OF DECK) SPOT ELEVATION. SLOPE STEEL EVENLY BETWEEN POINTS.
- STEEL BEAM SIZE. NUMBER OF SHEAR STUDS. ZERO IF BLANK. SERVICE LOAD REACTION (KIPS) EACH END.
- C=3/4" = CAMBER UPWARD AT MIDSPAN (INCHES).
- (+20'-5 1/2") = TOP OF STEEL BEAM ELEVATION REFERENCED FROM FINISHED FIRST FLOOR REFERENCE ELEVATION (0'-0").
- MCT = MOMENT CONNECTION. SEE DETAIL XXXX.
- COLLECTOR / DRAG STRUT TENSION CONNECTION. SEE DETAIL XXXX. SEE SCHEDULE ON XXXX.
- DIAGONAL BRACING. SEE S-200 SERIES DRAWINGS FOR BRACE ELEVATIONS.
- COLUMN STARTING AT AND EXTENDING UPWARD FROM THIS LEVEL.
- HSS6x3x3/8 STEEL HANGER BELOW. SEE DETAIL XS-XXX FOR TOP CONNECTION AND DETAIL XS-XXX FOR BOTTOM CONNECTION.
- HSS4x4x1/8 STEEL HANGER BELOW. SEE DETAIL XS-XXX FOR TOP CONNECTION AND BOTTOM CONNECTION.
- PRECAST WALL.
- WALL BELOW DECK.
- EP1 = EMBEDDED STEEL PLATE. SEE DETAIL US-304.
- EP-PC = EMBEDDED STEEL PLATE BY PRECAST CONCRETE DESIGNER/SUPPLIER.
- BP1 = STEEL BEARING PLATE. SEE DETAIL HS-305.
- FB1 = BEAM BOTTOM FLANGE BRACE. SEE DETAIL XXXX.
- CANT = CANTILEVER BEAM END. SEE DET XXX.
- EXTENT OF SLAB DEPRESSION. DEPTH MEASURED FROM ADJACENT TOP OF CONCRETE.
- 1/4" = ROOF SLOPE.
- RD = ROOF DRAIN. SEE DET XXXX FOR FRAMING REQUIREMENTS. SEE ARCH DWGS FOR LOCATIONS.
- W12 = W12x19 (12k).
- W14 = W14x22 (15k).



**JRA**  
architects

3225 Summit Square Place, Suite 300  
Lexington, Kentucky 40509  
859.252.6781



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STRUCTURAL ENGINEERS

546 East Main Street, Suite 300  
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BP-02

**MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



STRUCTURAL	
PROJECT	202170
DATE	03.18.24
REVISIONS	
No.	Description
3	BP-02 - Add 3

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**FRAMING PLAN  
- FIRST FLOOR  
- AREA C**

**S-111C**

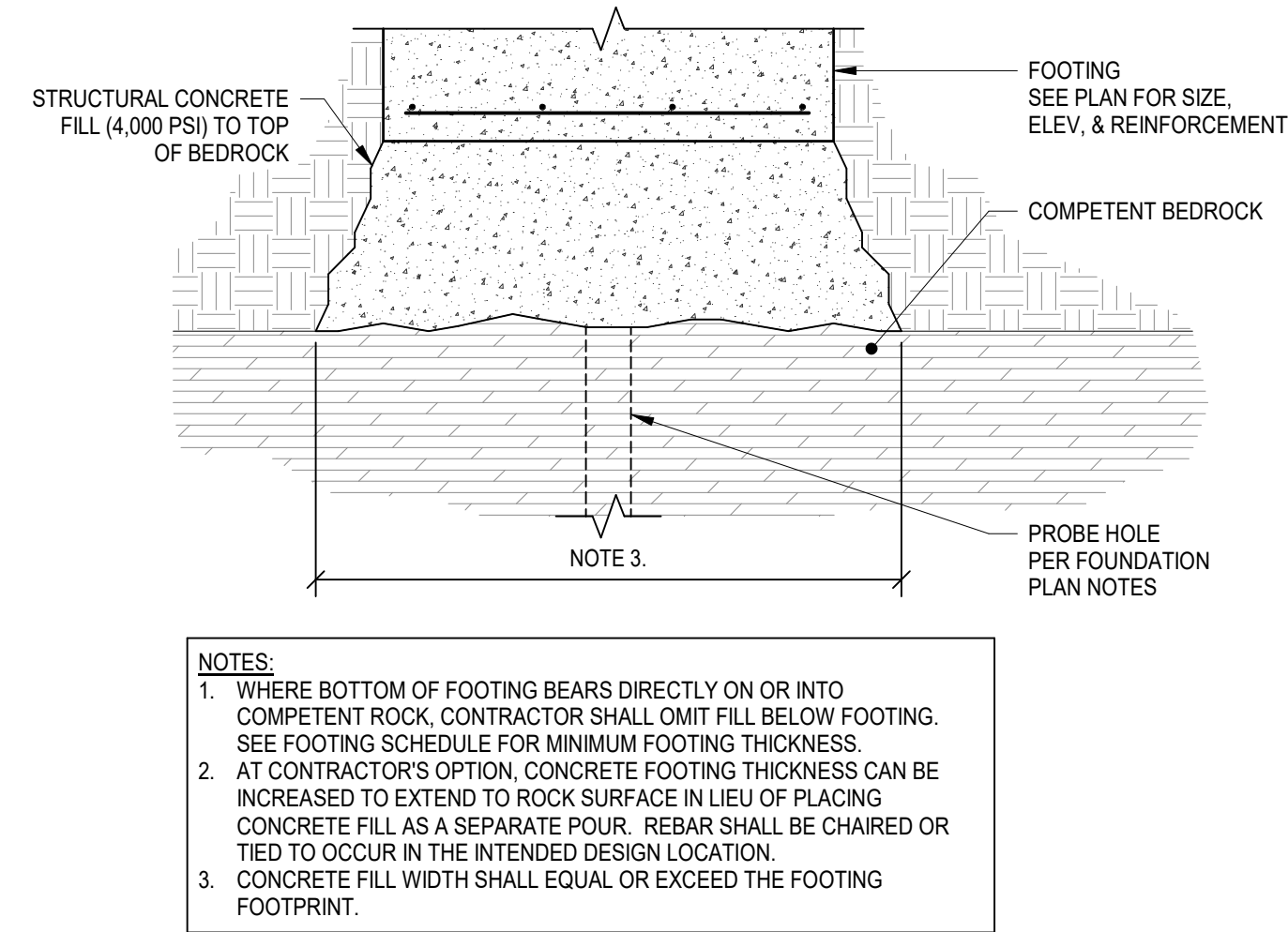
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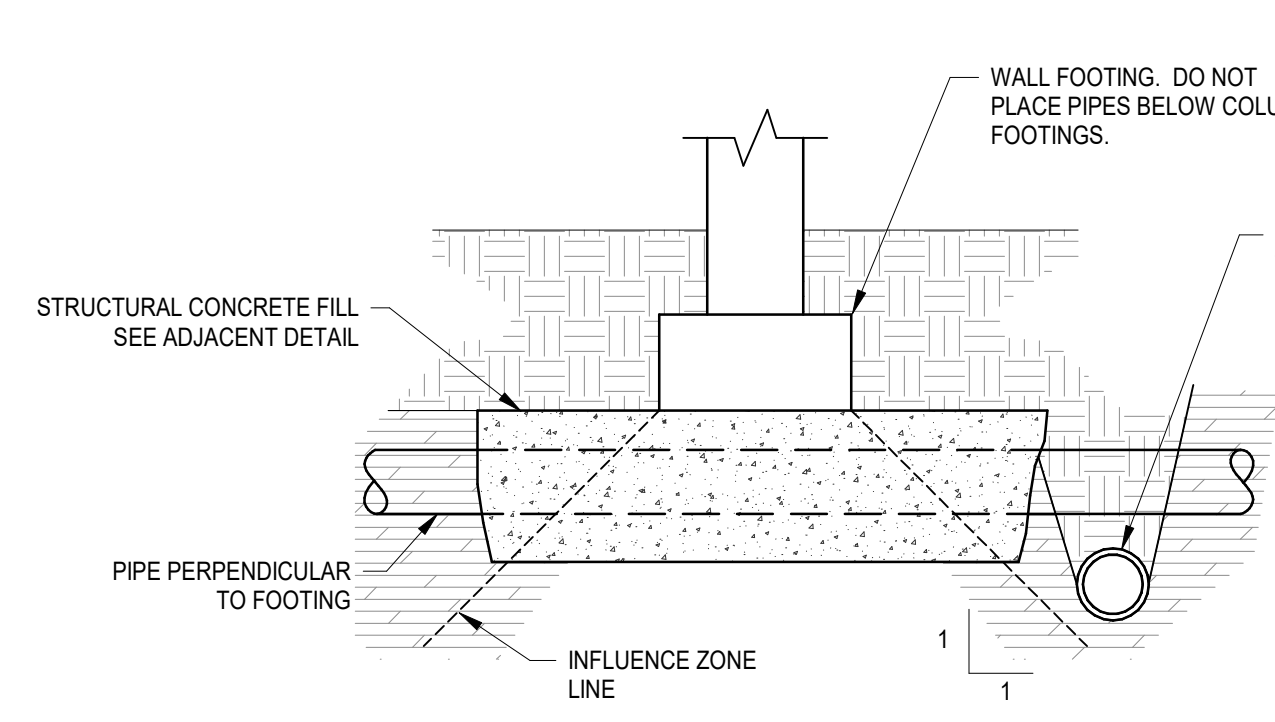




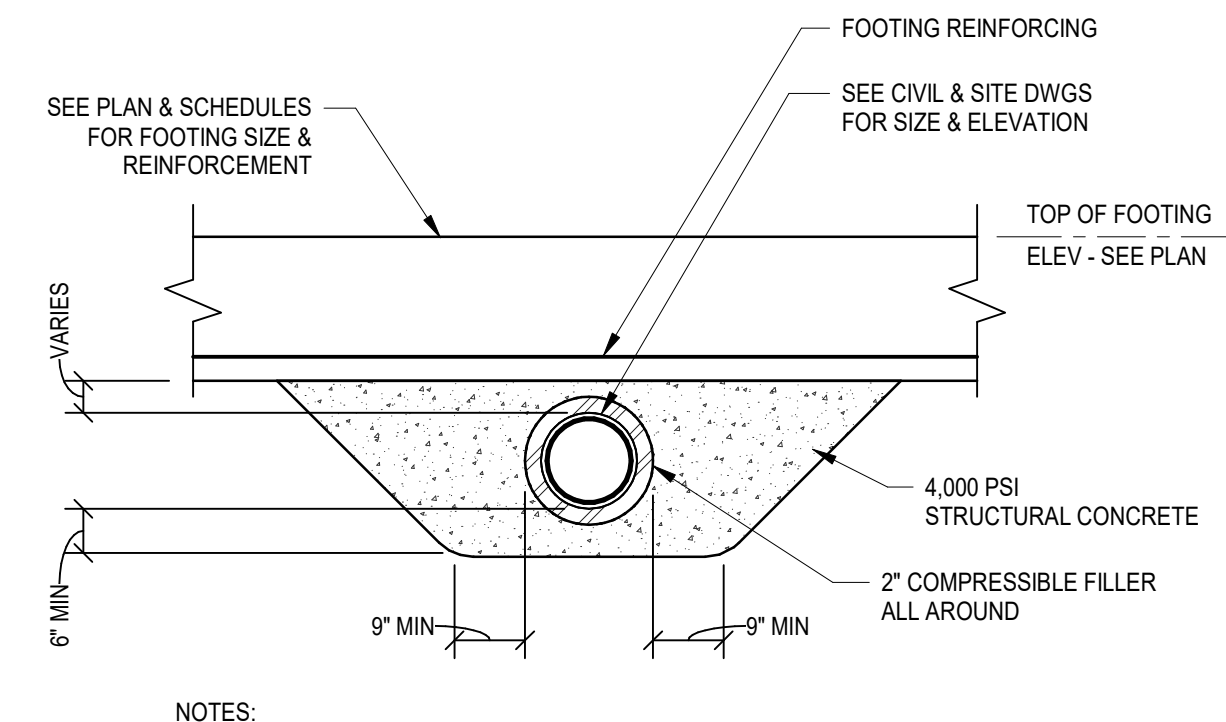




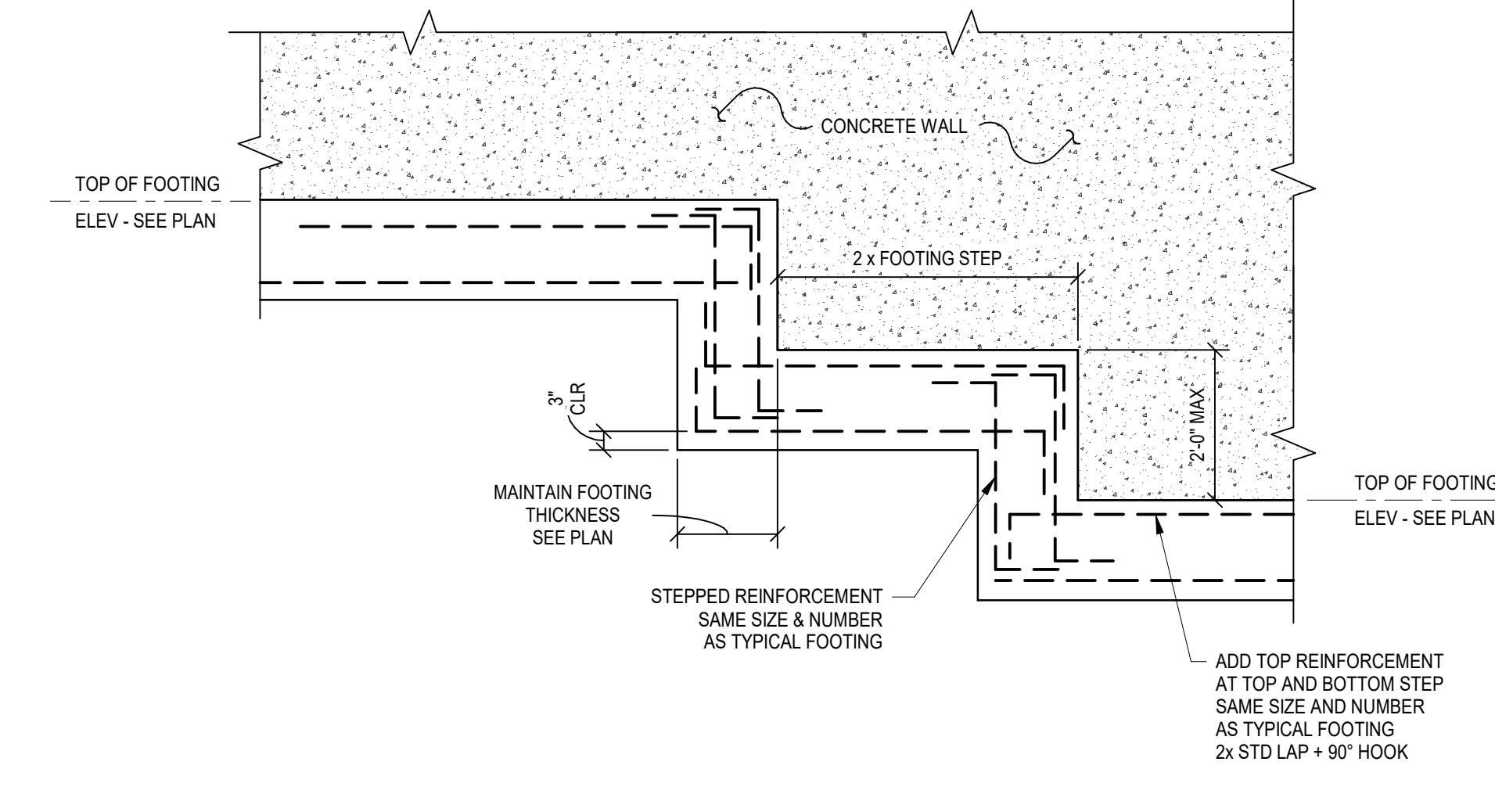
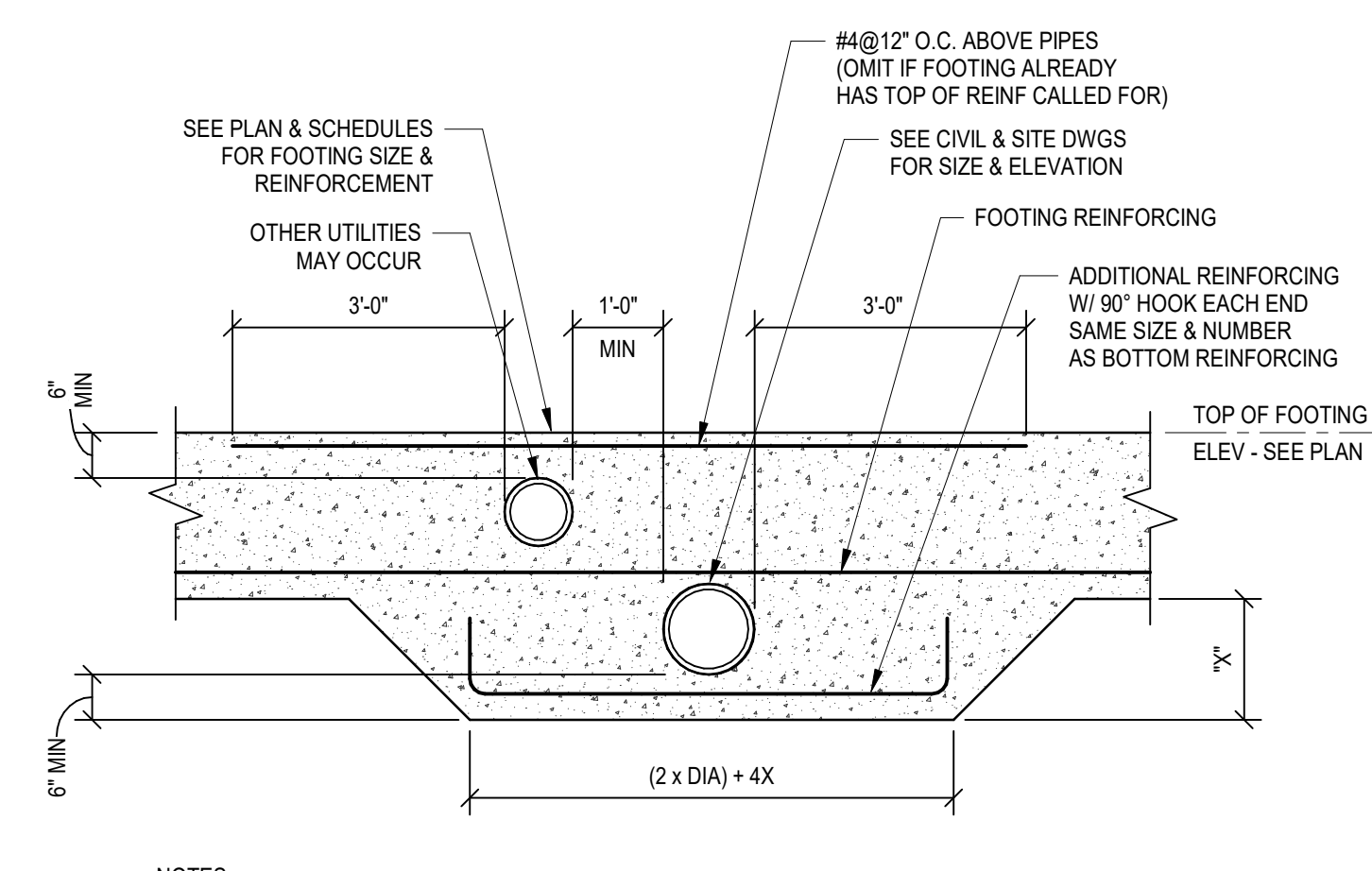
**A** S-301  
TYPICAL ROCK-BEARING FOOTING DETAIL  
NOT TO SCALE



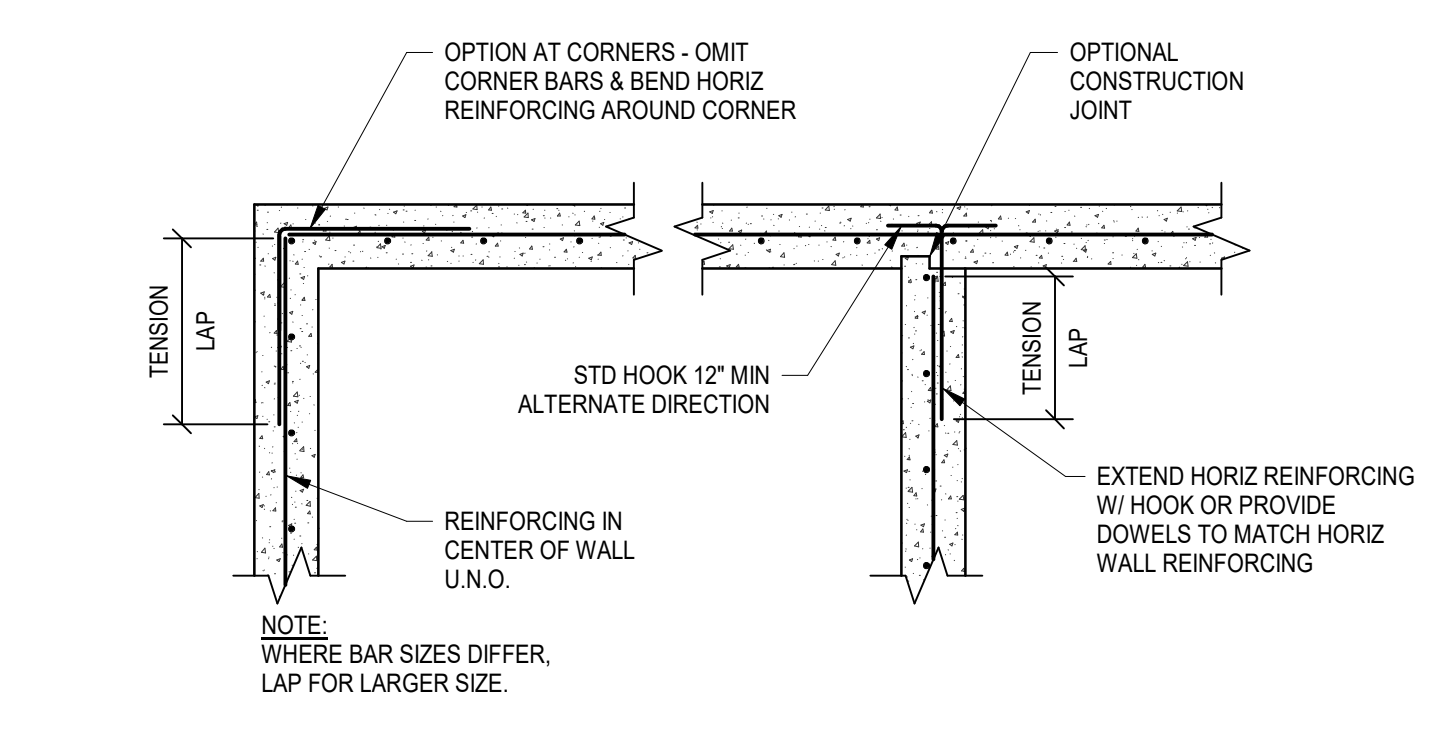
**B** S-301  
TYPICAL UTILITY LINE BELOW FOOTING DETAIL  
NOT TO SCALE



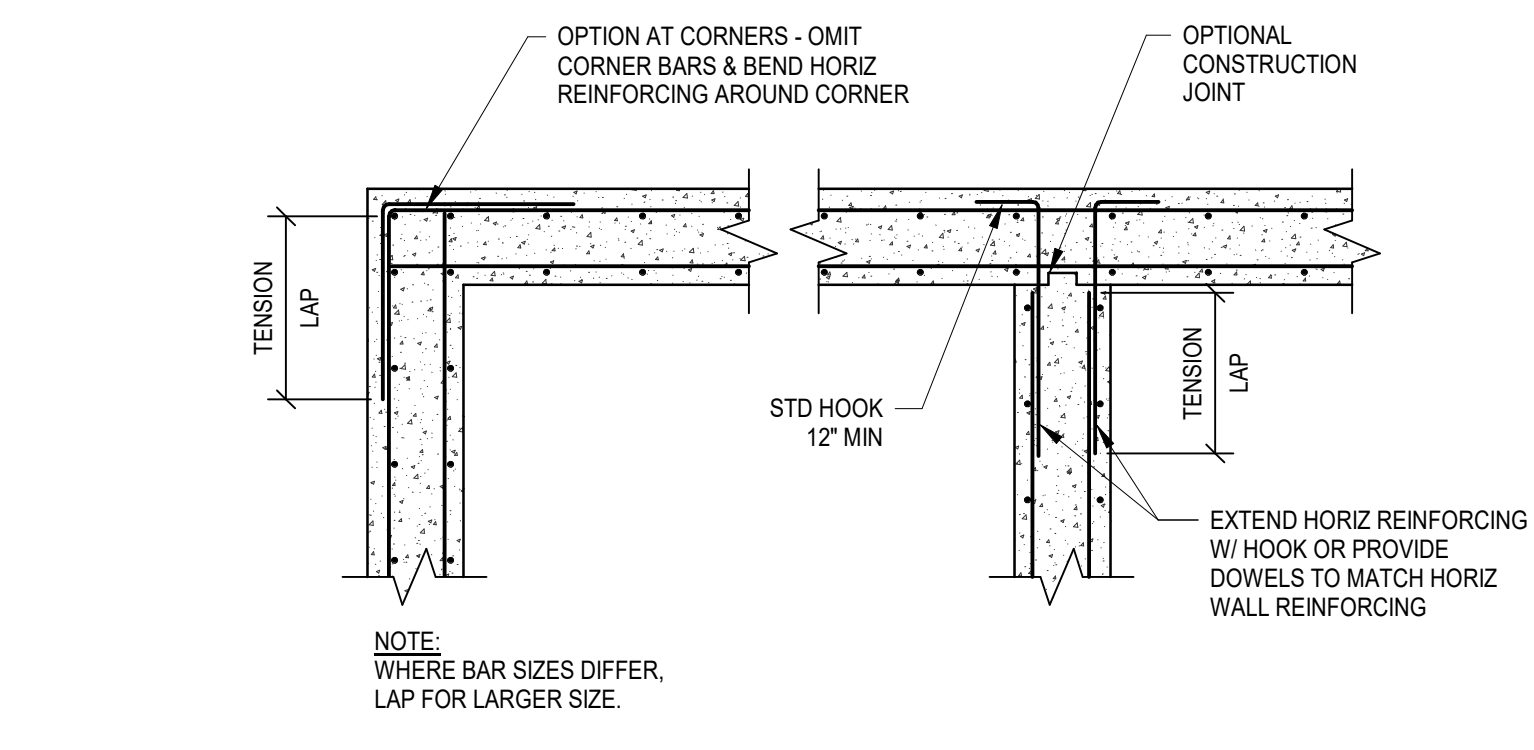
**C** S-301  
TYPICAL FOOTING PENETRATION/SLEEVE DETAIL  
NOT TO SCALE



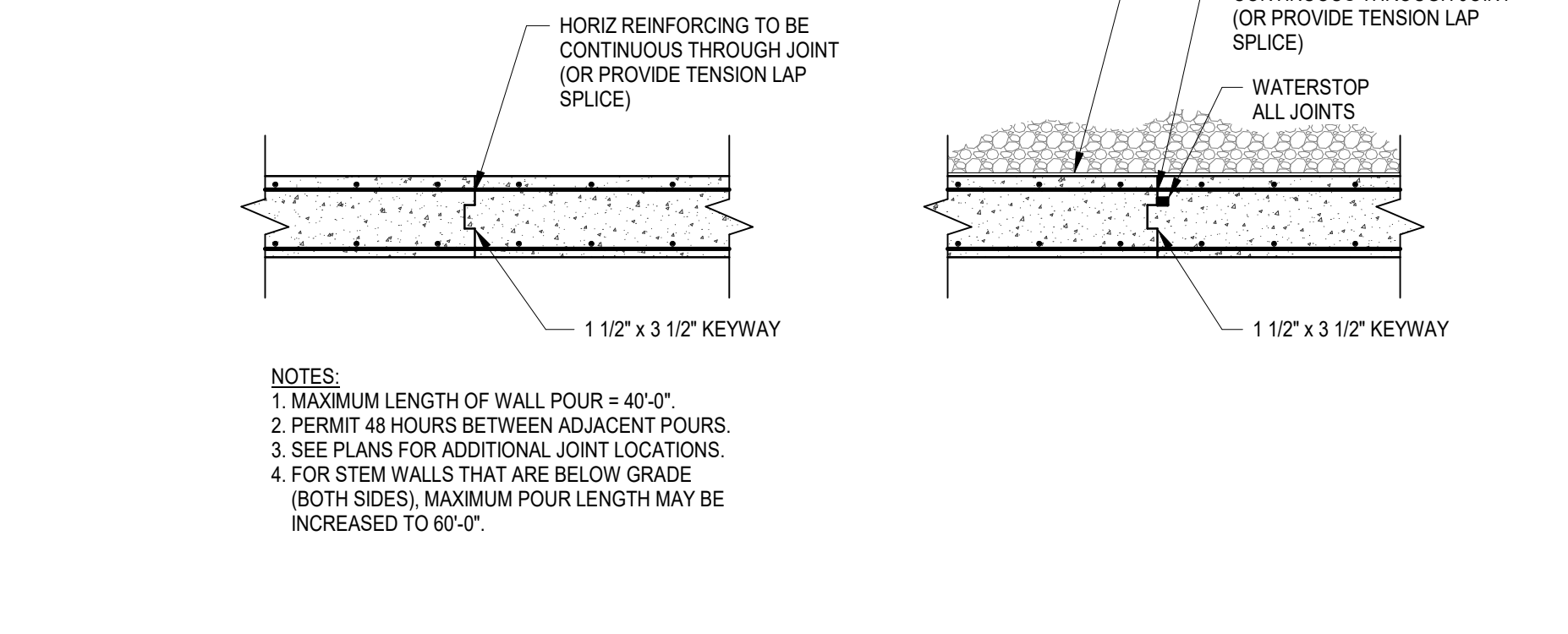
**D** S-301  
TYPICAL STEP FOOTING DETAIL  
NOT TO SCALE



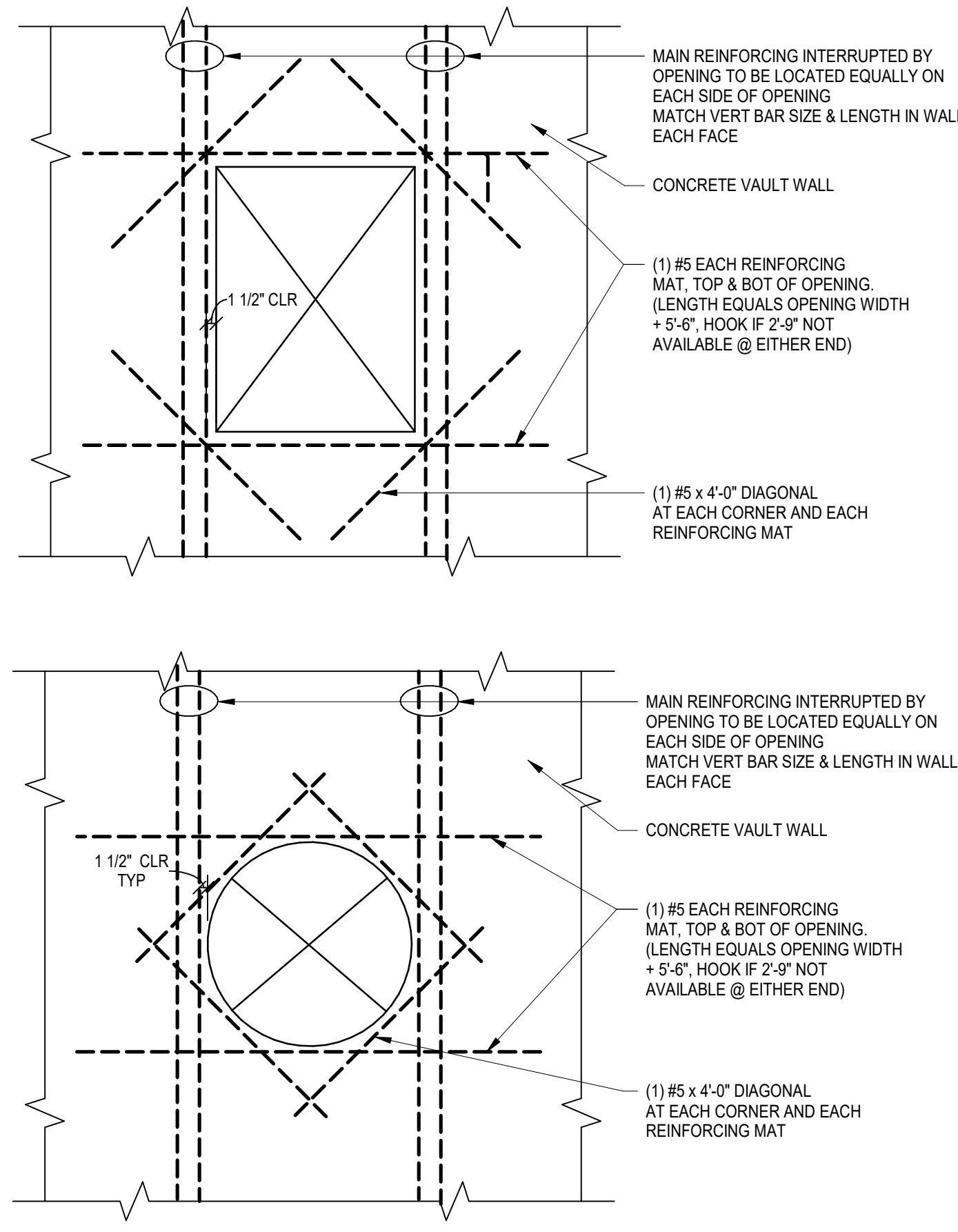
**E** S-301  
TYPICAL CONCRETE WALL REINFORCING DETAIL  
NOT TO SCALE



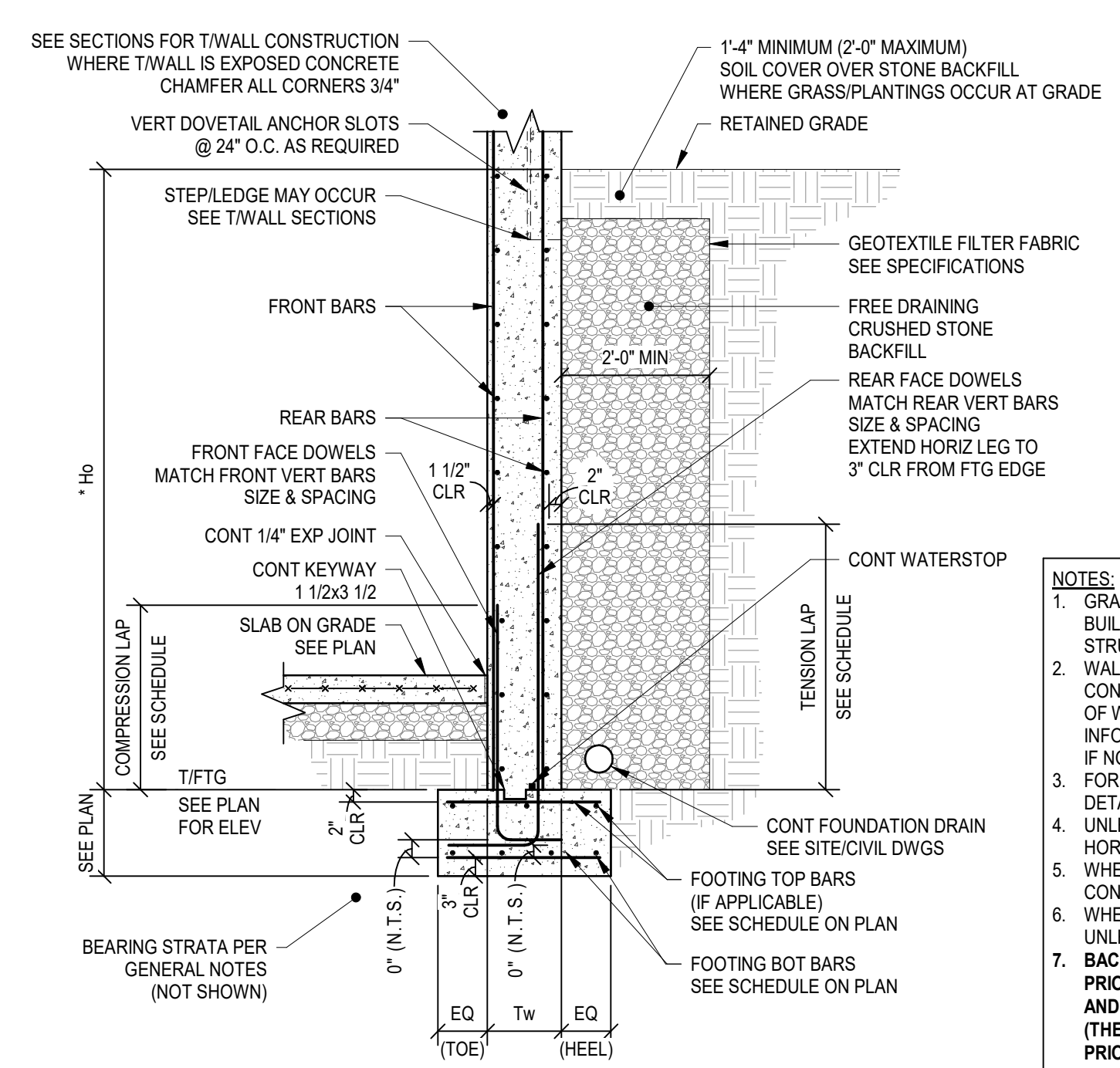
**F** S-301  
TYPICAL CONCRETE WALL REINFORCING DETAIL  
NOT TO SCALE



**G** S-301  
TYPICAL CONCRETE WALL CONSTRUCTION JOINT DETAIL  
NOT TO SCALE



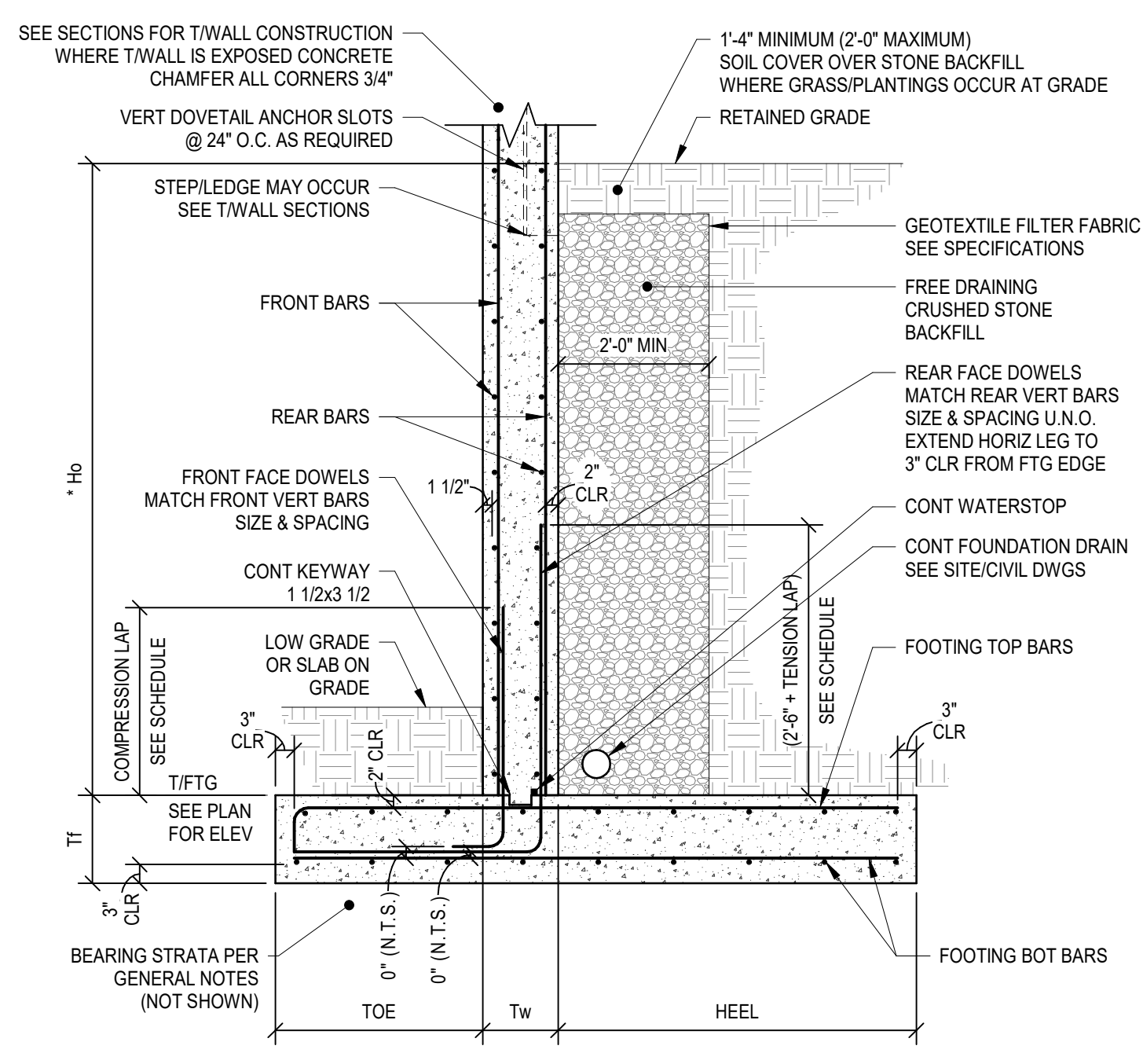
**H** S-301  
TYPICAL REINFORCING AT CONCRETE WALL OPENING DETAIL  
NOT TO SCALE



**J** S-301  
TYPICAL BASEMENT WALL DETAIL  
NOT TO SCALE

**BASEMENT WALL SCHEDULE**

MARK (SEE PLANS)	Tw	H <sub>o</sub> (MAX RETAINED HEIGHT MEASURED FROM TIFTG)	FOOTING	FRONT BARS	REAR BARS
WF40	1'-6"	19'-4"	WF40	#8@10" O.C. VERT + #6@10" O.C. VERT	#5@12" O.C. HORIZ
WF40A	1'-6"	19'-4"	WF40A	#8@10" O.C. VERT + #6@10" O.C. VERT	#5@12" O.C. HORIZ



**RETAINING WALL SCHEDULE**

MARK (SEE PLANS)	H <sub>o</sub> (MAX RETAINED HEIGHT MEASURED FROM TIFTG)	Tw	TI	TOE	HEEL	REINFORCEMENT			
						TOP BARS	BOT BARS	FRONT BARS	REAR BARS
RWF40	4'-6"	10"	1'-4"	1'-7"	1'-7"	#4@12" O.C. TRANS + (4) #4 LONGITUDINAL	#4@9" O.C. TRANS + (4) #4 LONGITUDINAL	#5@12" O.C. VERT + #4@12" O.C. HORIZ	#5@12" O.C. DOWEL + #5@12" O.C. VERT + #4@12" O.C. HORIZ
RWF55	9'-0"	1'-0"	1'-4"	1'-6"	4'-0"	#5@12" O.C. TRANS + (5) #5 LONGITUDINAL	#4@9" O.C. TRANS + (5) #5 LONGITUDINAL	#5@12" O.C. VERT + #5@12" O.C. HORIZ	#5@12" O.C. DOWEL + #5@12" O.C. VERT + #5@12" O.C. HORIZ
RWF115	18'-0"	1'-8"	1'-8"	2'-0"	7'-10"	#8@9" O.C. TRANS + (14) #7 LONGITUDINAL	#8@9" O.C. TRANS + (14) #7 LONGITUDINAL	#7@12" O.C. VERT + #5@12" O.C. HORIZ	#8@9" O.C. DOWEL + #5@12" O.C. VERT + #5@12" O.C. HORIZ
RWF65A	10'-0"	1'-6"	1'-6"	1'-6"	3'-6"	#6@8" O.C. TRANS + (7) #6 LONGITUDINAL	#6@8" O.C. TRANS + (7) #6 LONGITUDINAL	#8@10" O.C. VERT + #5@12" O.C. HORIZ	#8@10" O.C. VERT + #5@12" O.C. HORIZ

\* CONTACT ENGINEER IF MAXIMUM RETAINED HEIGHT NOTED WILL BE EXCEEDED BASED ON FINISHED GRADING.  
\*\* - DOWEL LENGTH SHALL BE STANDARD TENSION LAP LENGTH + 3'-0"

**K** S-301  
TYPICAL RETAINING WALL DETAIL  
NOT TO SCALE



**BP-02**  
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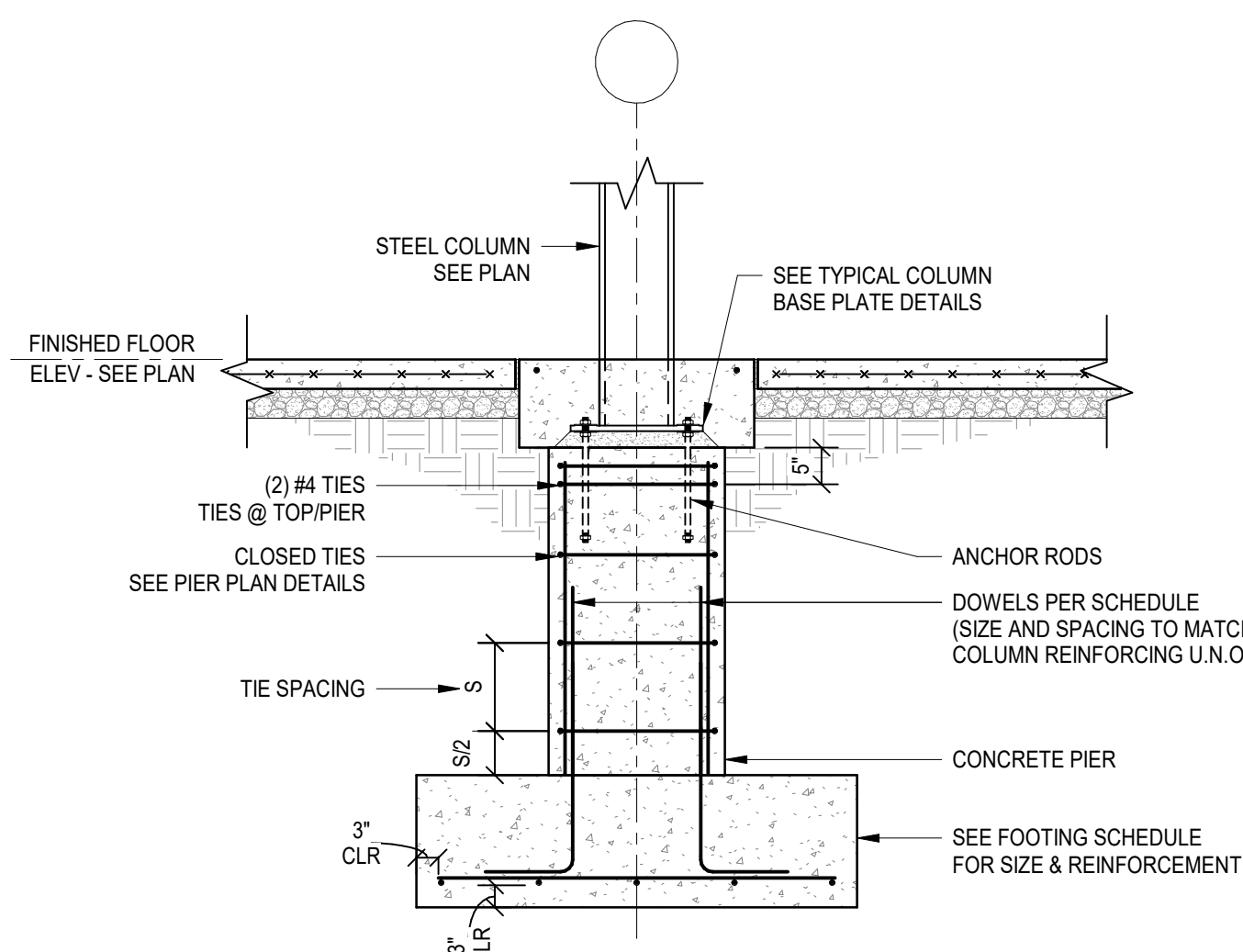
**STRUCTURAL**

PROJECT: 202170  
DATE: 03.18.24

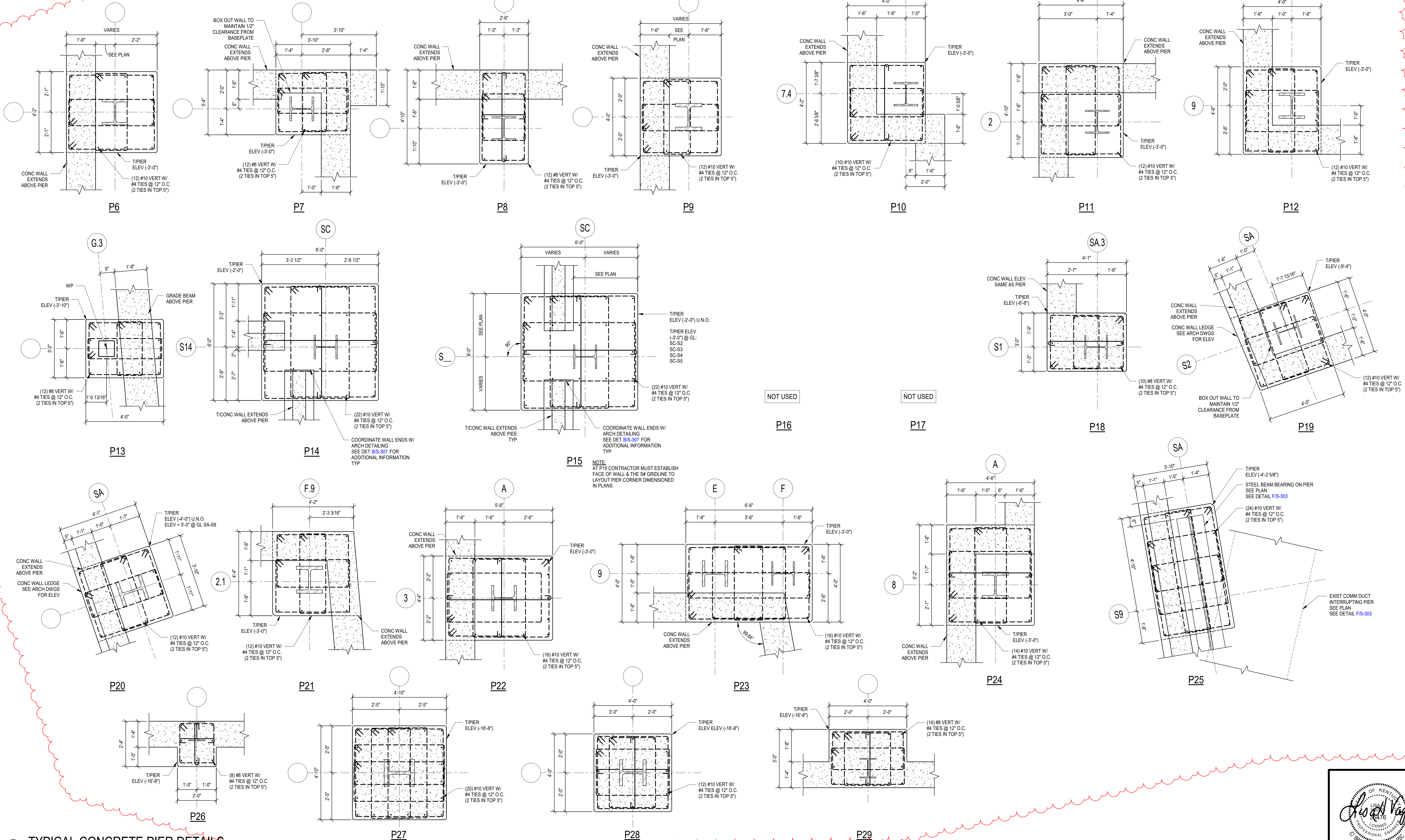
No.	Description	Date
3	BP-02 - Add 3	04/03/24

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**TYPICAL FOUNDATION DETAILS**  
**S-301**  
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NOTES:  
1. SEE PLAN FOR PIER ORIENTATION.  
2. WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SECTIONS.  
3. WHERE STEM WALL STEPS DOWN AT PIER, FILL PIER WITH CONCRETE TO TOP OF STEM WALL ELEVATION AFTER COLUMN HAS BEEN INSTALLED.



**TYPICAL CONCRETE PIER DETAILS**  
NOT TO SCALE

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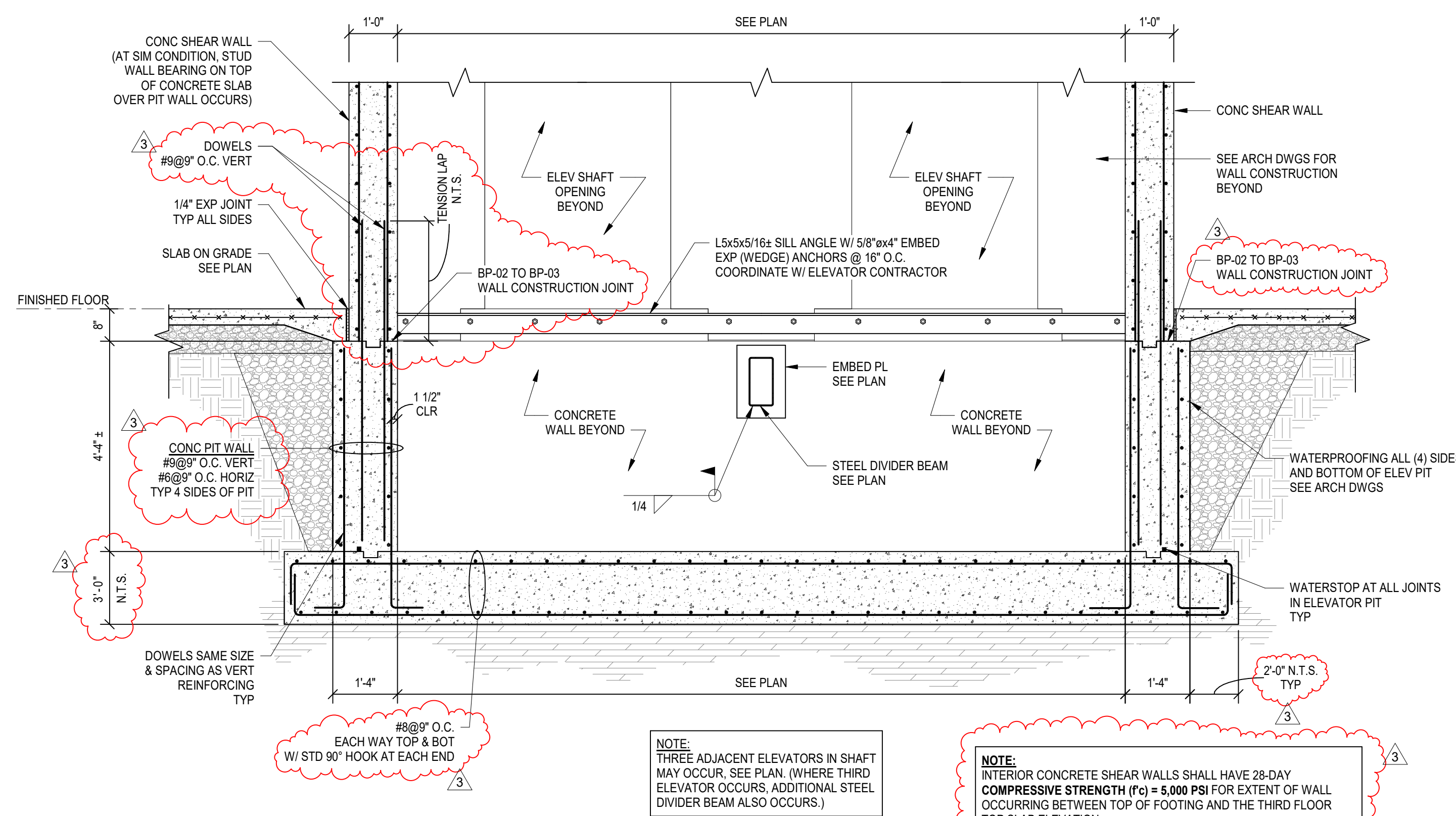
**STRUCTURAL**

PROJECT	202170	
DATE	03.18.24	
<b>REVISIONS</b>		
No.	Description	Date
3	BP-02 - Add 3	04/03/24

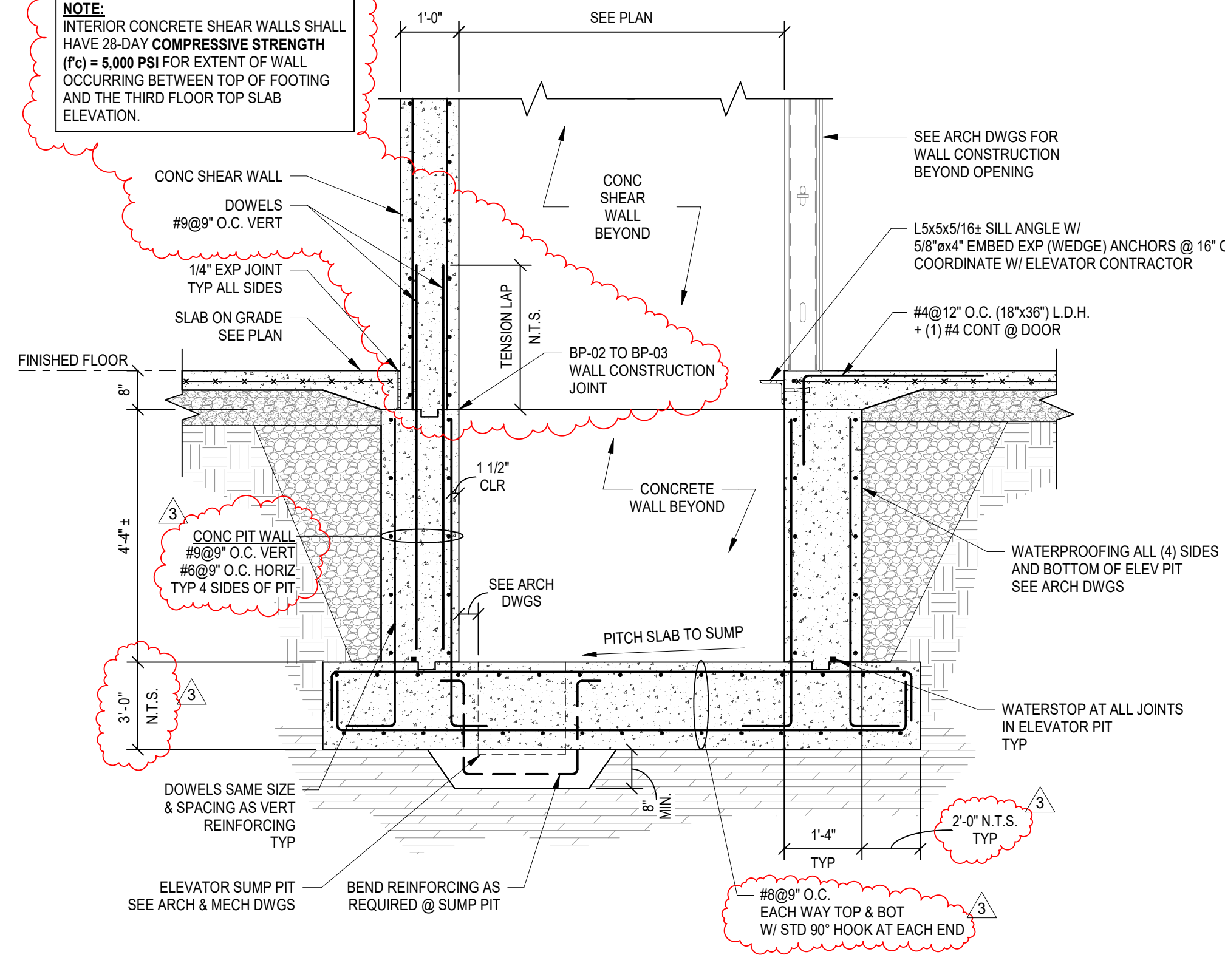
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**TYPICAL FOUNDATION DETAILS**  
**S-302**  
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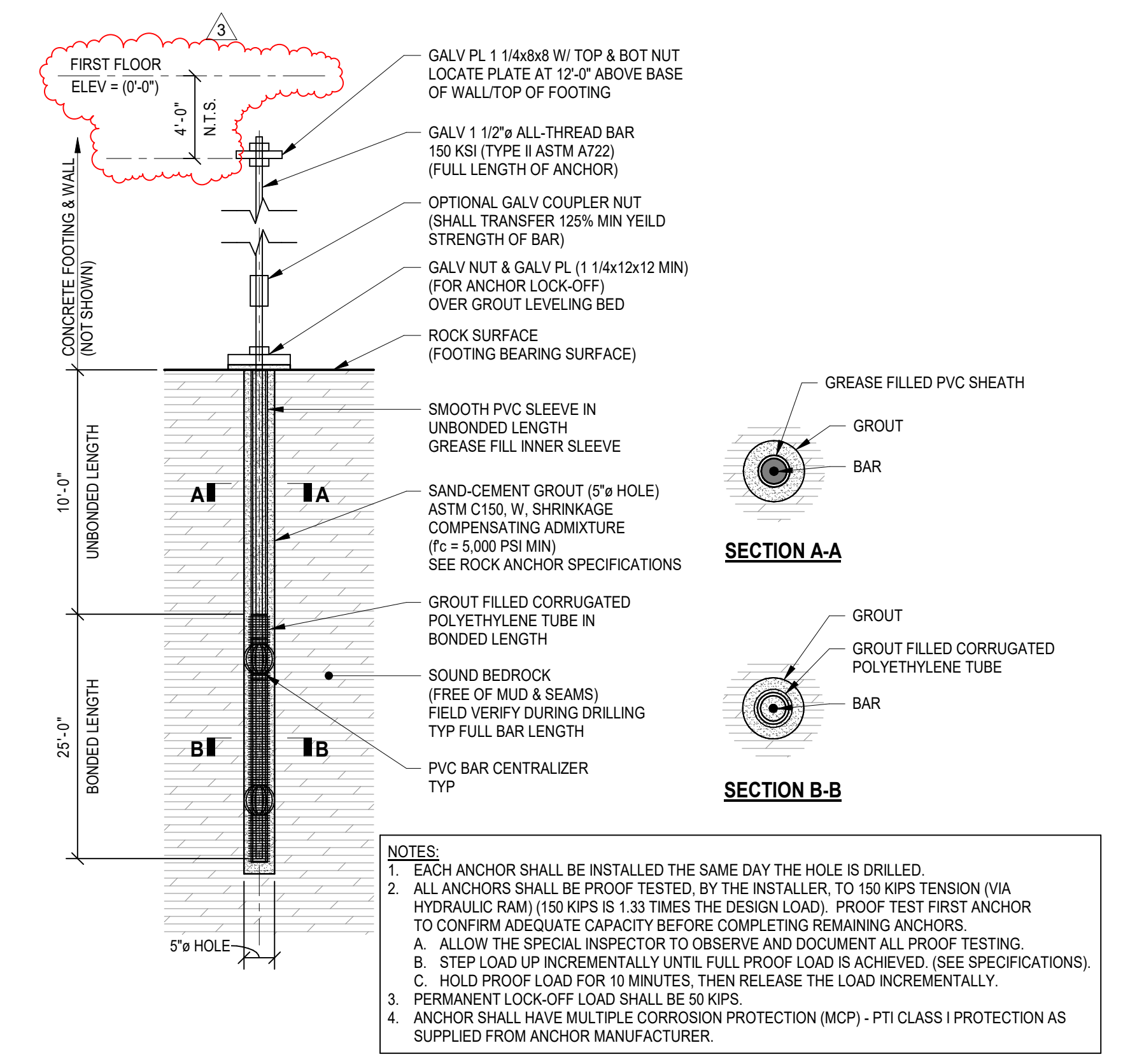




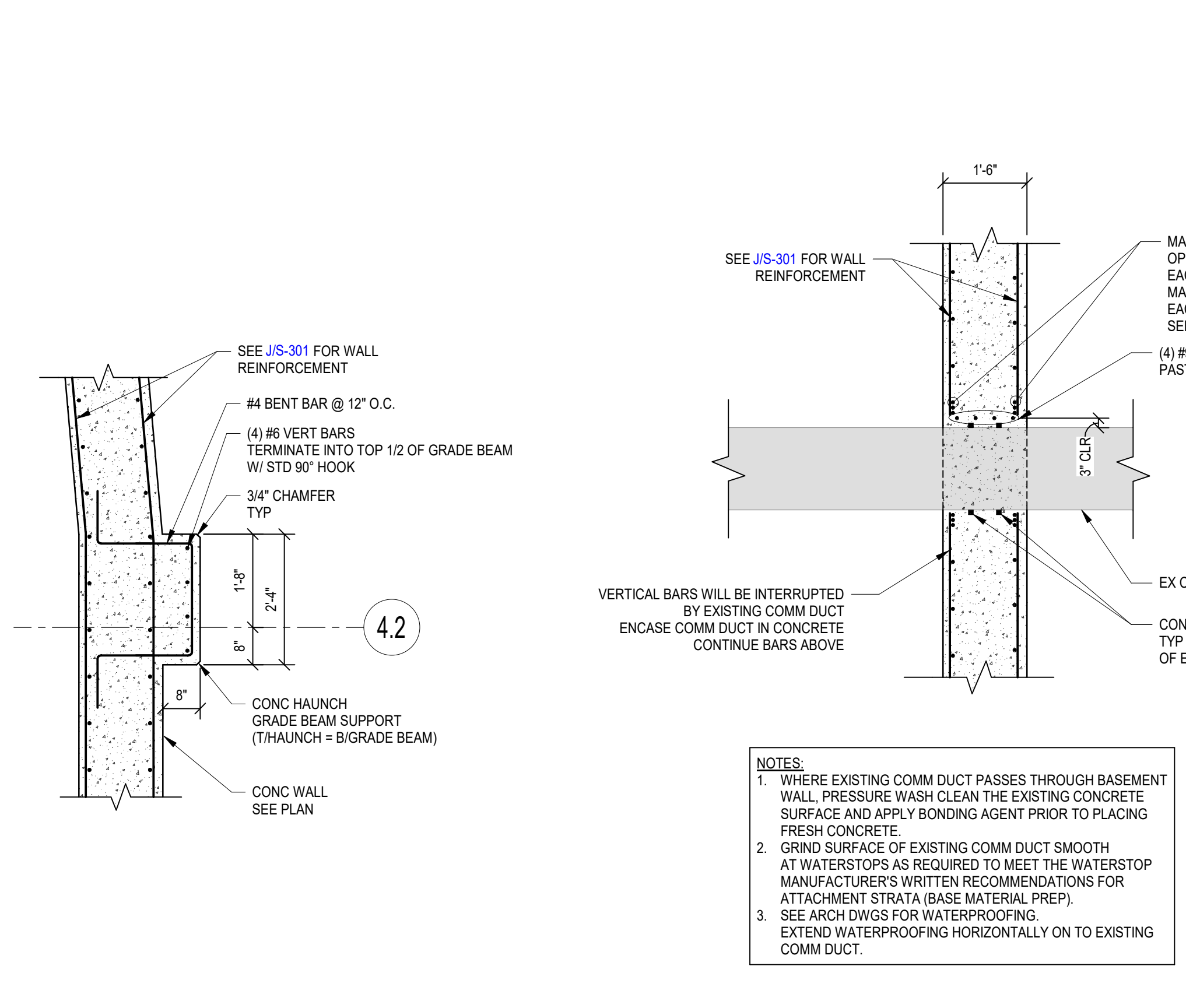
**A** ELEVATOR PIT SECTION  
NOT TO SCALE



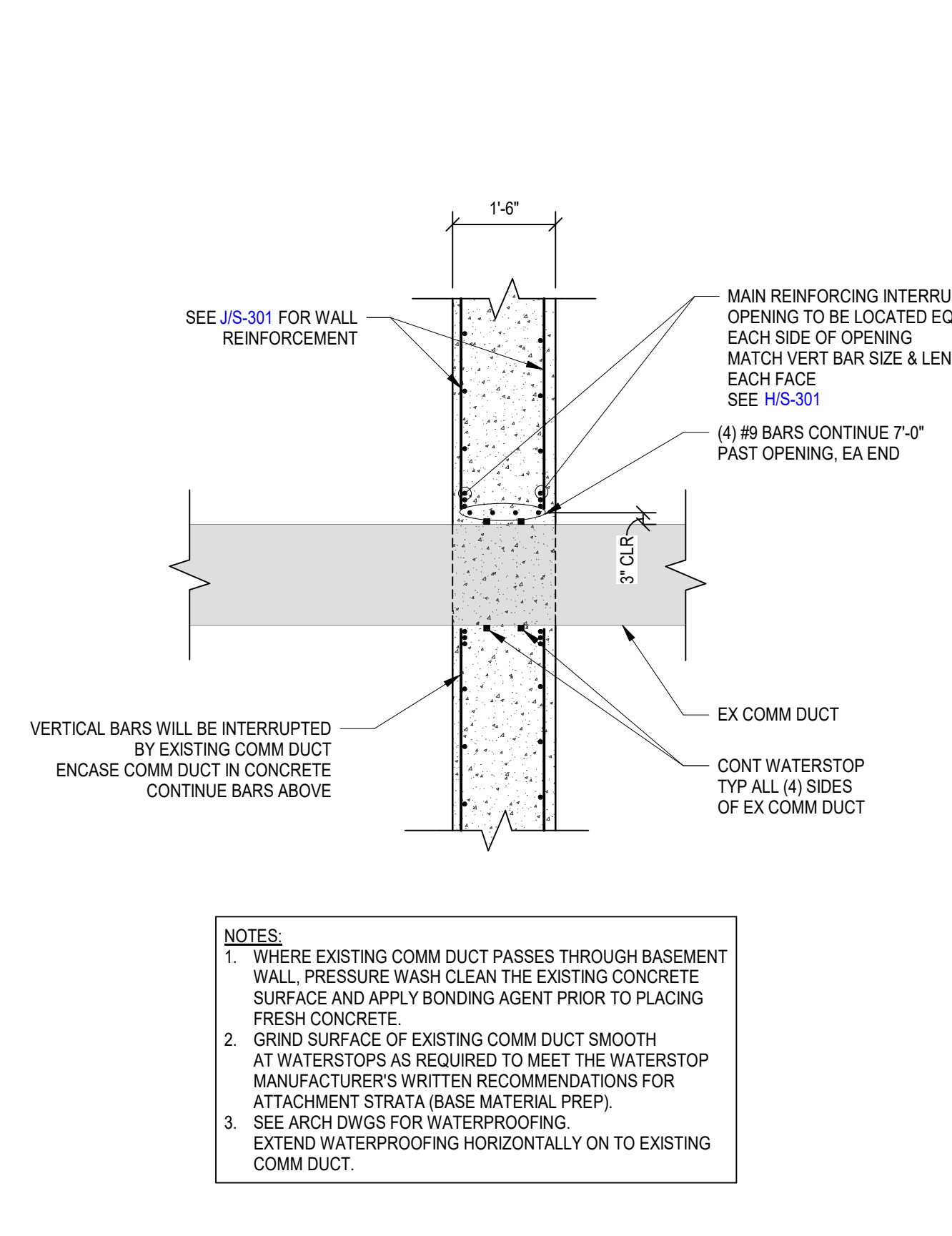
**B** ELEVATOR PIT SECTION AT DOOR  
NOT TO SCALE



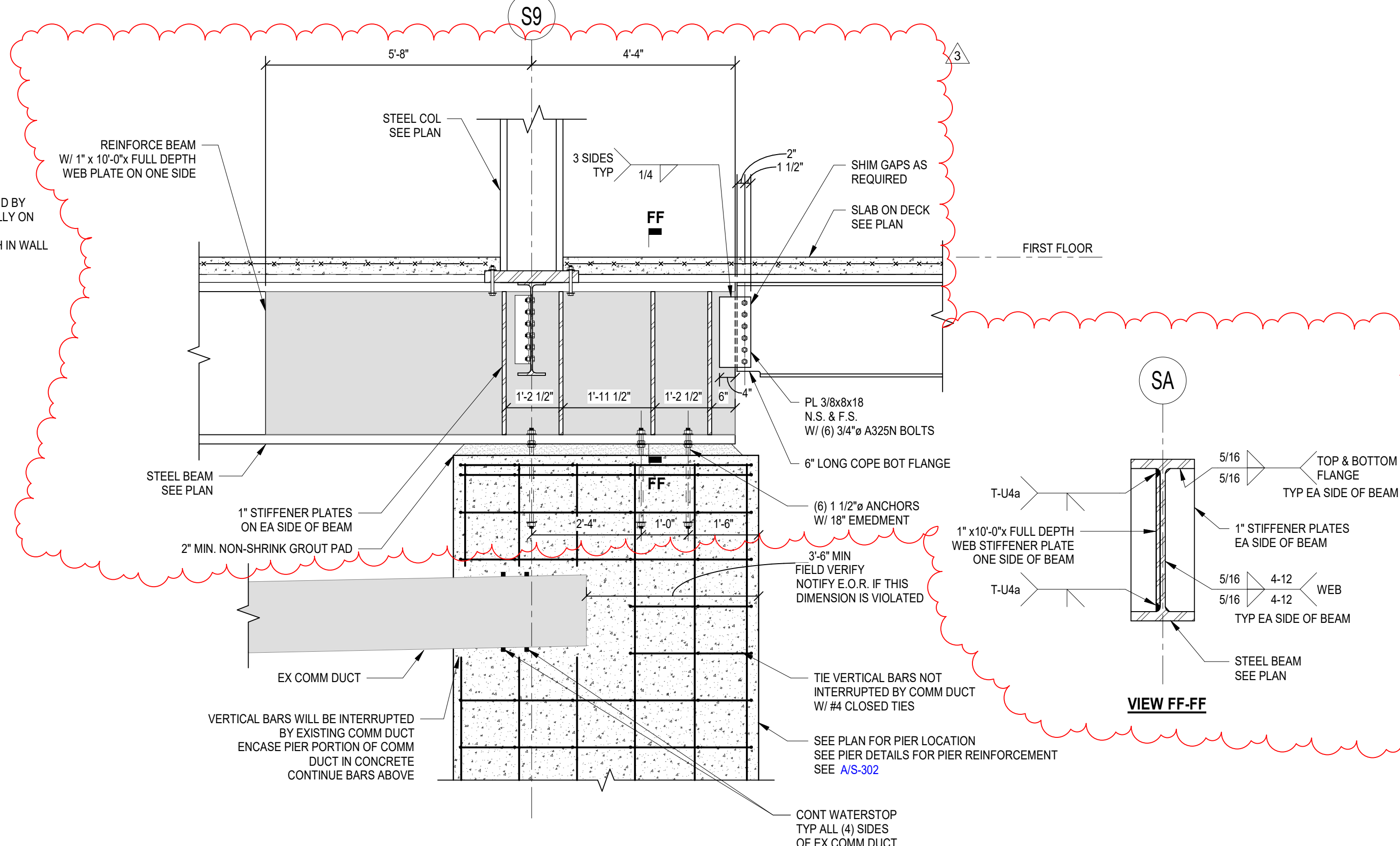
**C** TYPICAL TENSION ROCK ANCHOR DETAIL  
NOT TO SCALE



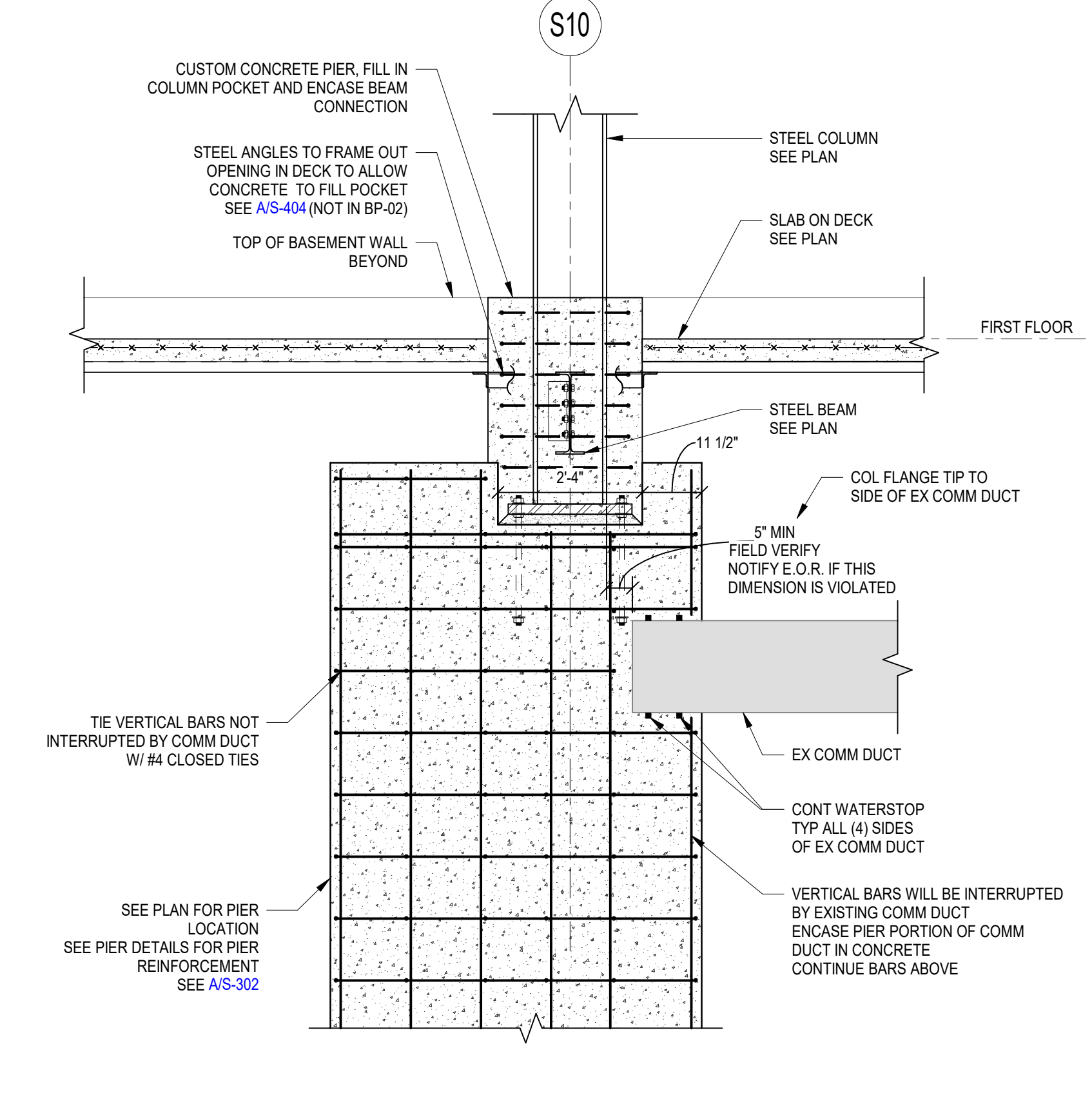
**D** CONCRETE HAUNCH DETAIL  
1/2" = 1'-0"



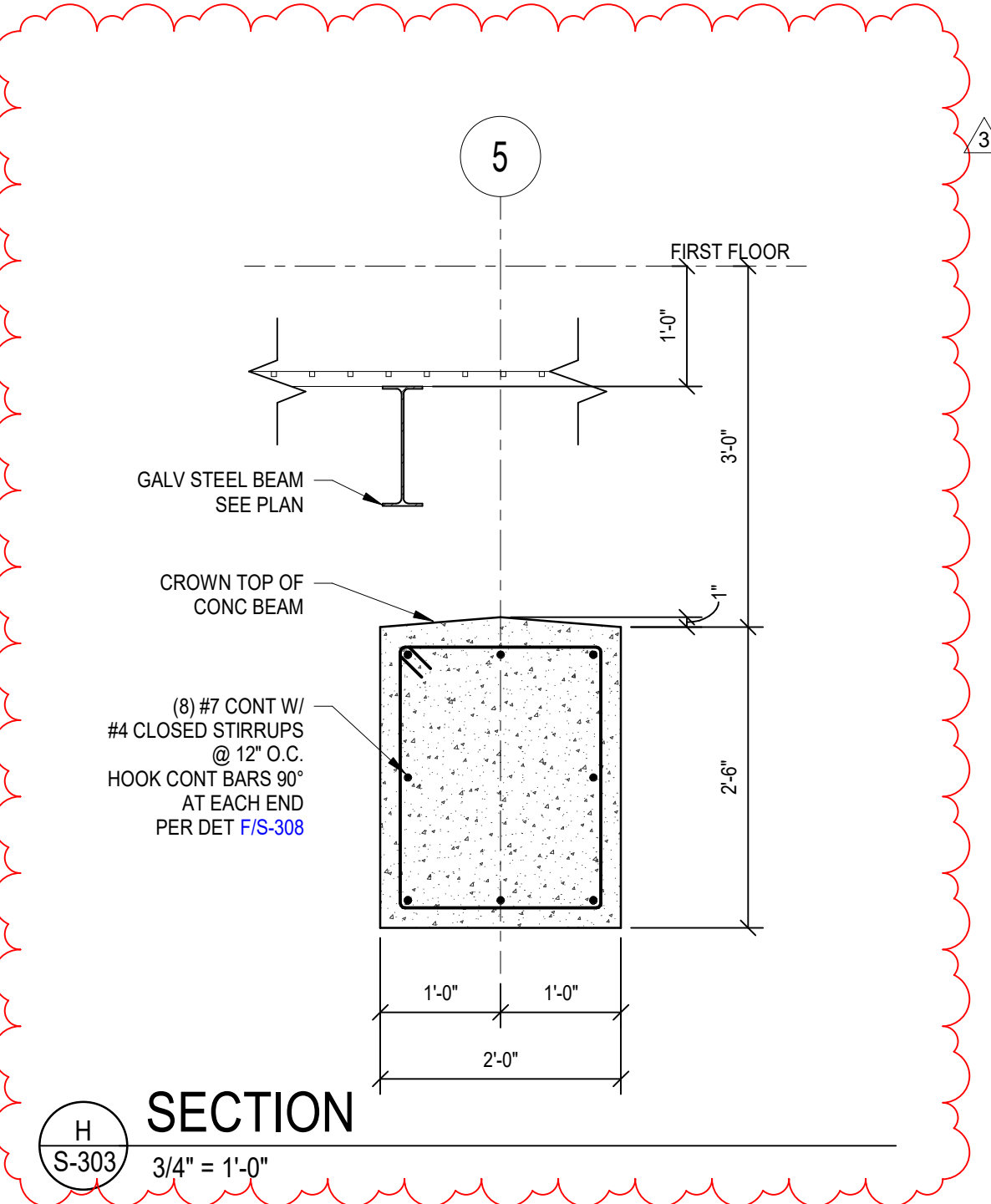
**E** COMM DUCT THROUGH BASEMENT WALL DETAIL  
1/2" = 1'-0"



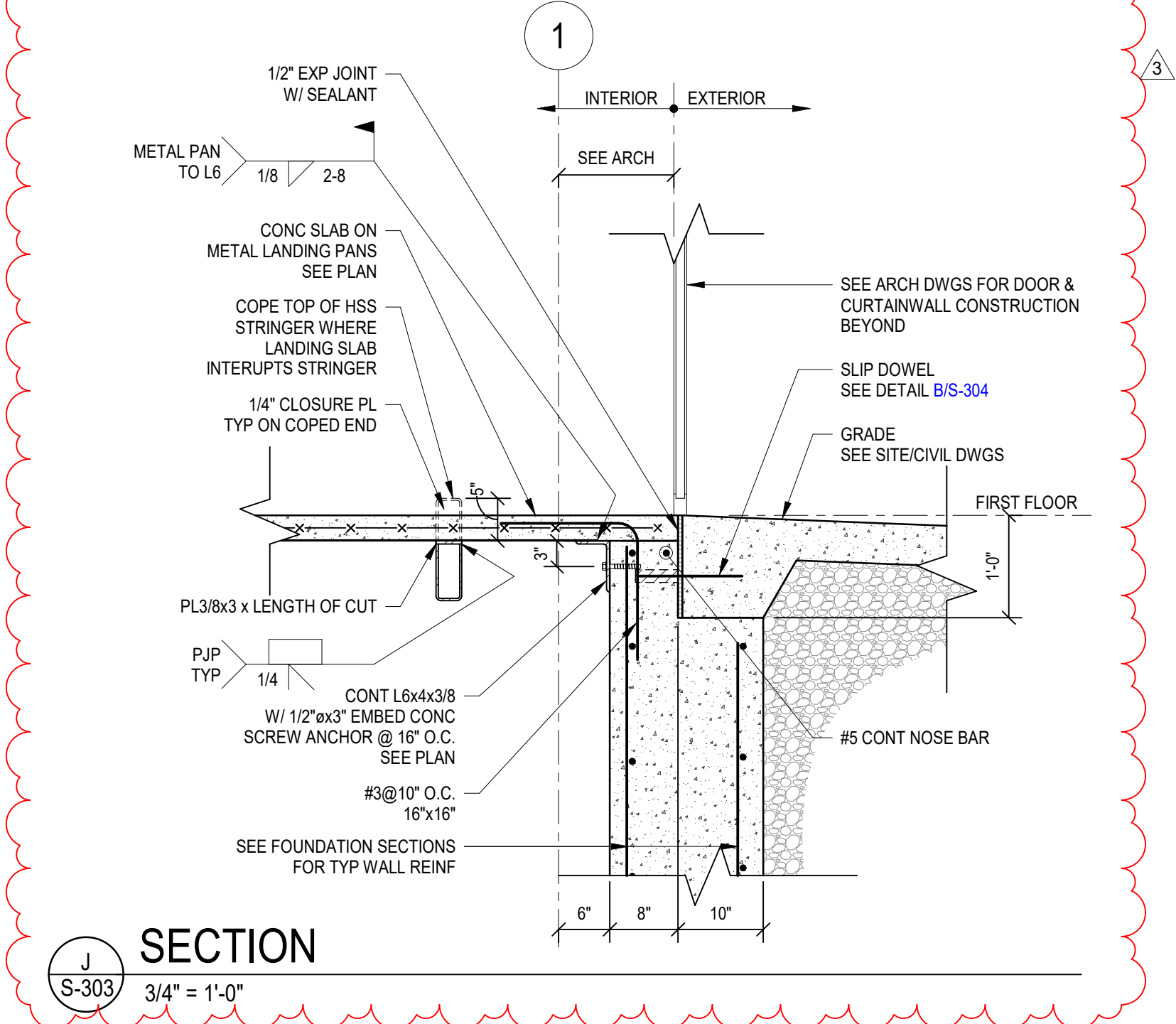
**F** SECTION  
1/2" = 1'-0"



**G** SECTION  
1/2" = 1'-0"



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



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

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UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
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**STRUCTURAL**

PROJECT	202170
DATE	03.18.24
<b>REVISIONS</b>	
No.	Description
3	BP-02 - Add 3
4	04/03/24

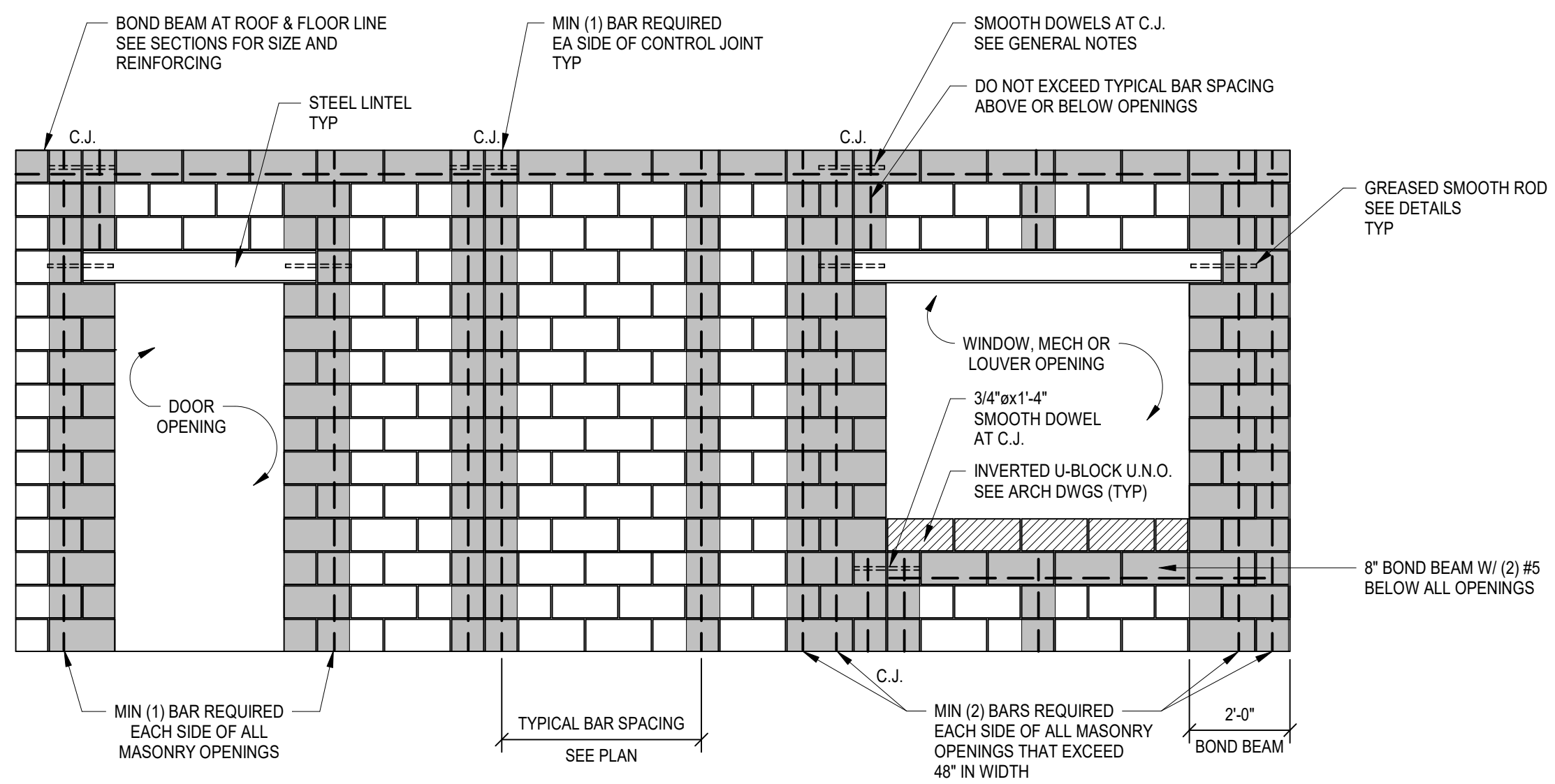
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**TYPICAL FOUNDATION DETAILS**

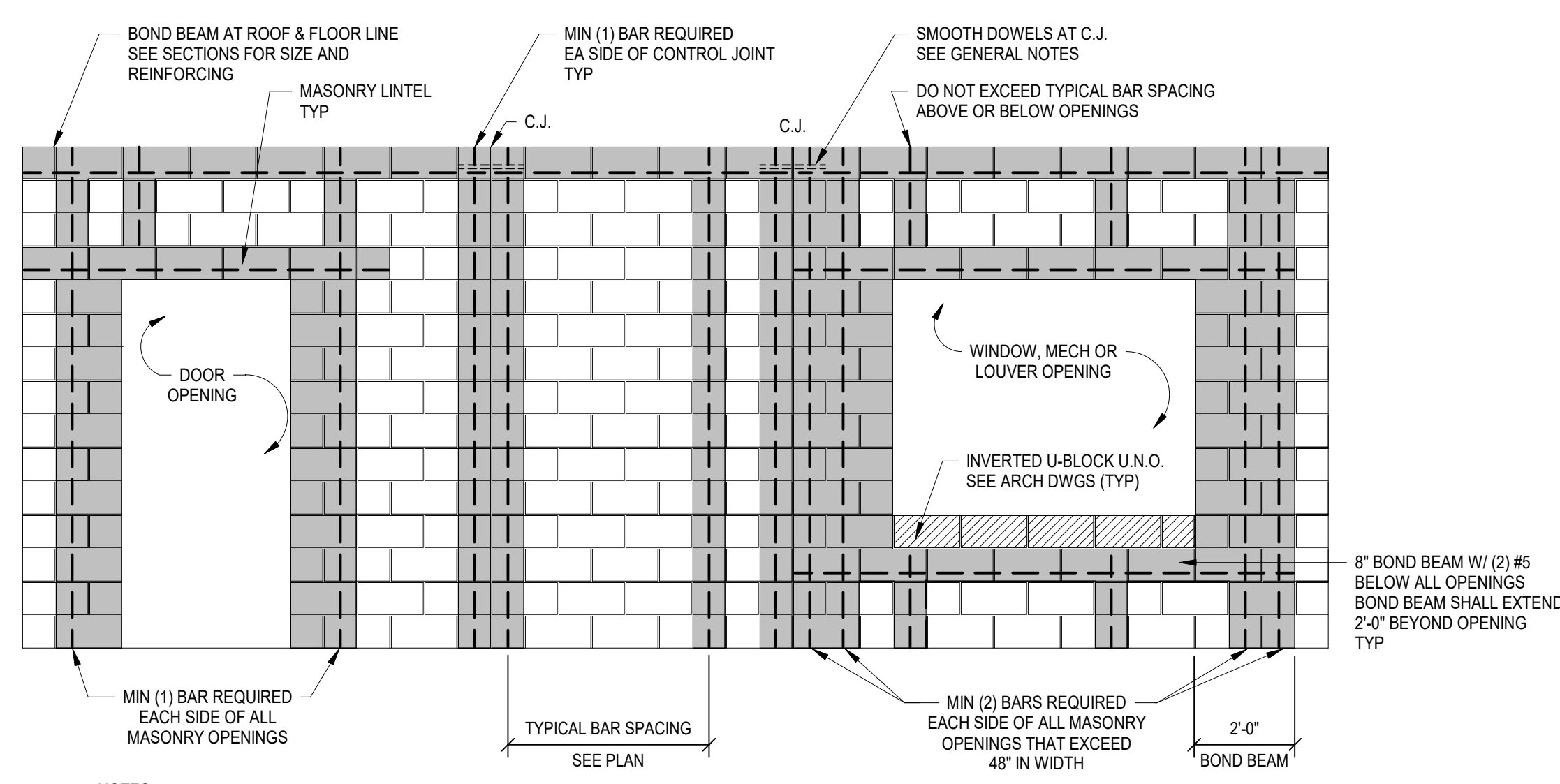
**S-303**

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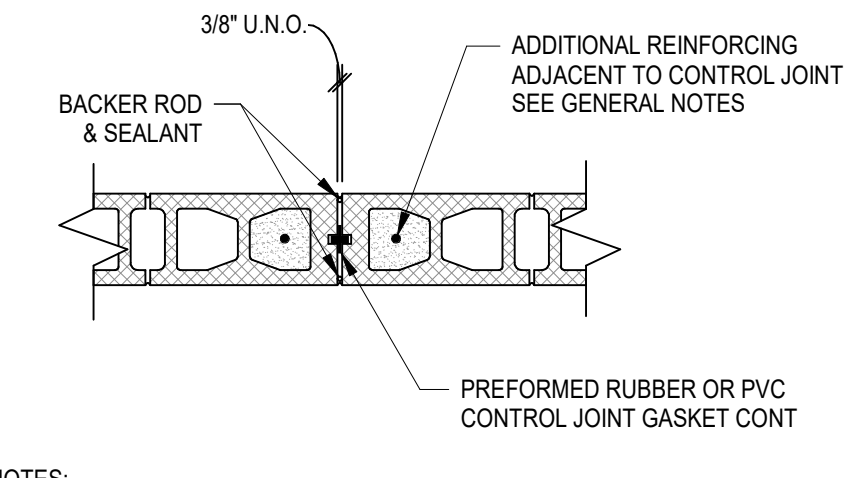




**A** TYPICAL MASONRY WALL REINFORCING DETAIL (W/ STEEL LINTELS)  
NOT TO SCALE

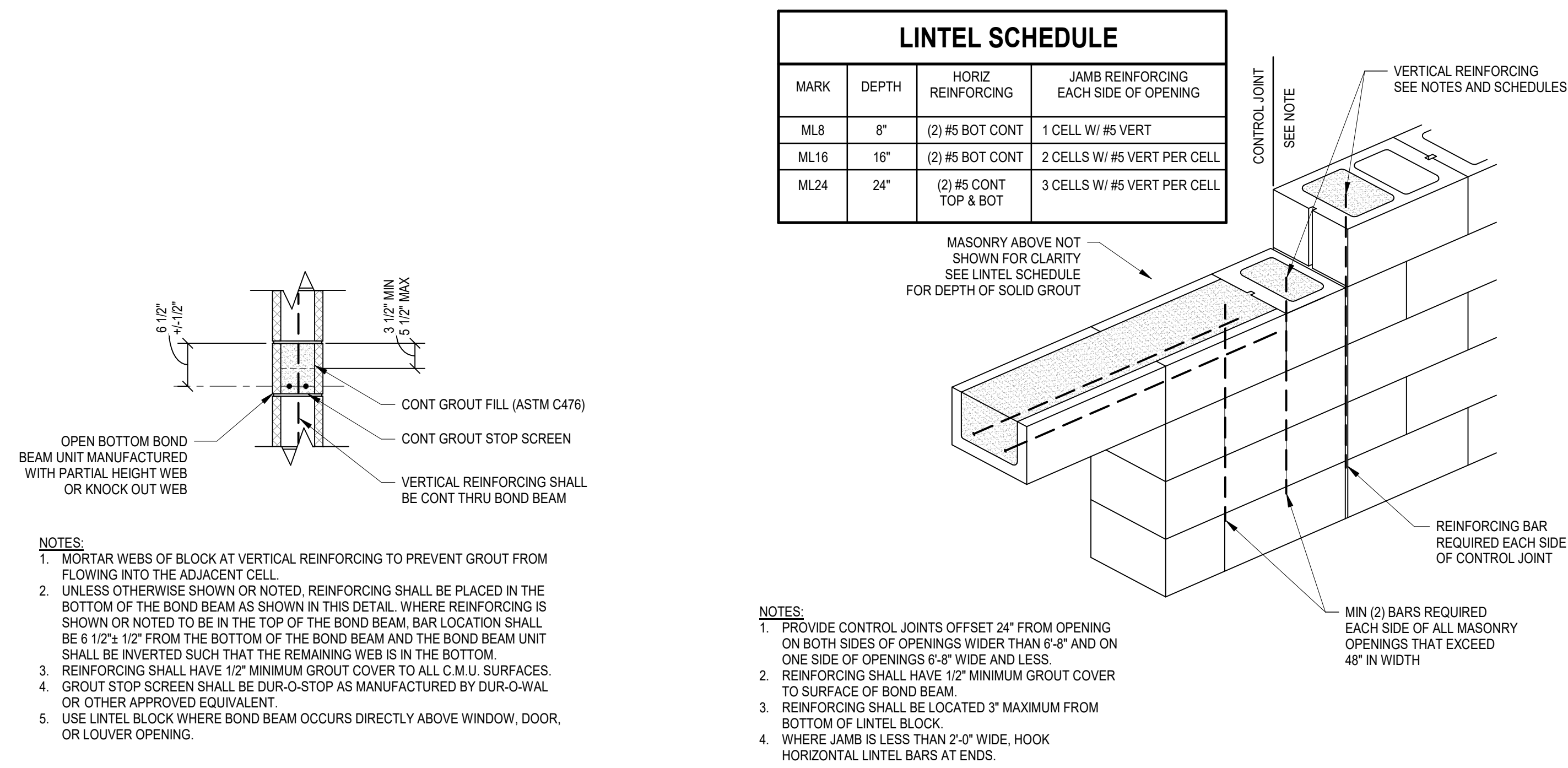


**B** TYPICAL MASONRY WALL REINFORCING DETAIL (W/ MASONRY LINTELS)  
NOT TO SCALE



**C** TYPICAL C.M.U. CONTROL JOINT DETAIL (C.J.)  
NOT TO SCALE

MARK	DEPTH	HORIZ REINFORCING	JAMB REINFORCING EACH SIDE OF OPENING
ML8	8"	(2) #5 BOT CONT	1 CELL W/ #5 VERT
ML16	16"	(2) #5 BOT CONT	2 CELLS W/ #5 VERT PER CELL
ML24	24"	(2) #5 CONT TOP & BOT	3 CELLS W/ #5 VERT PER CELL

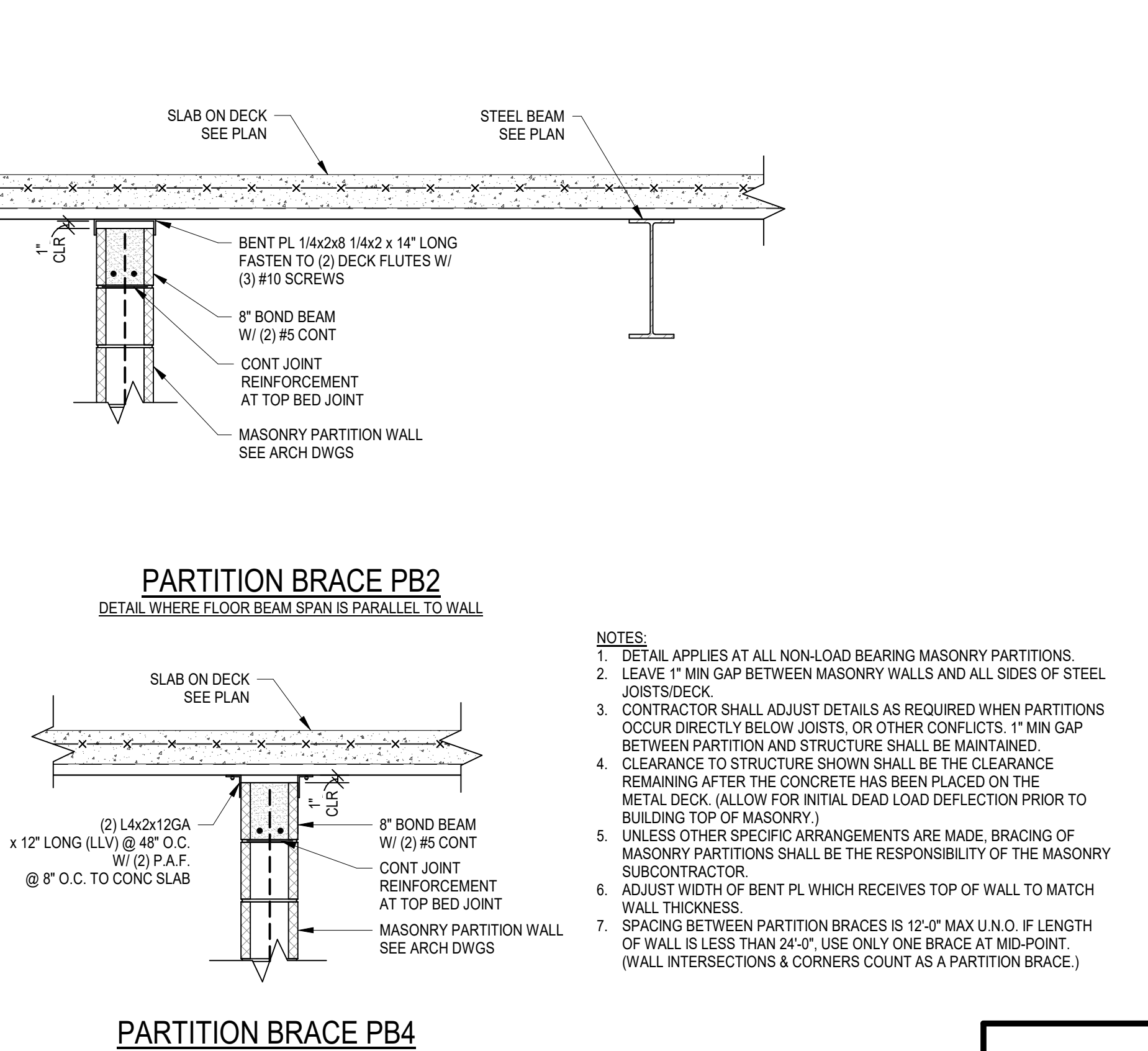
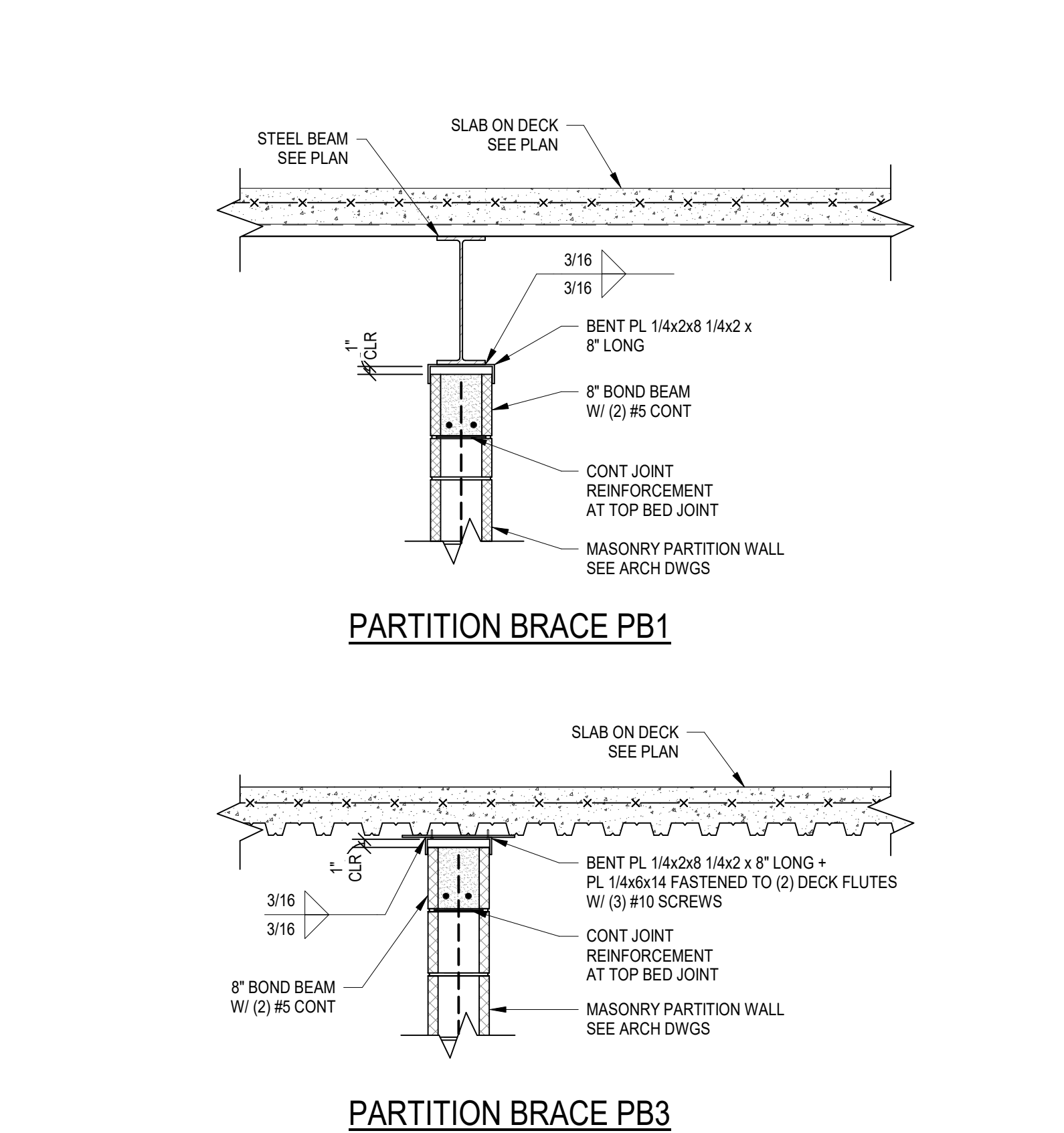
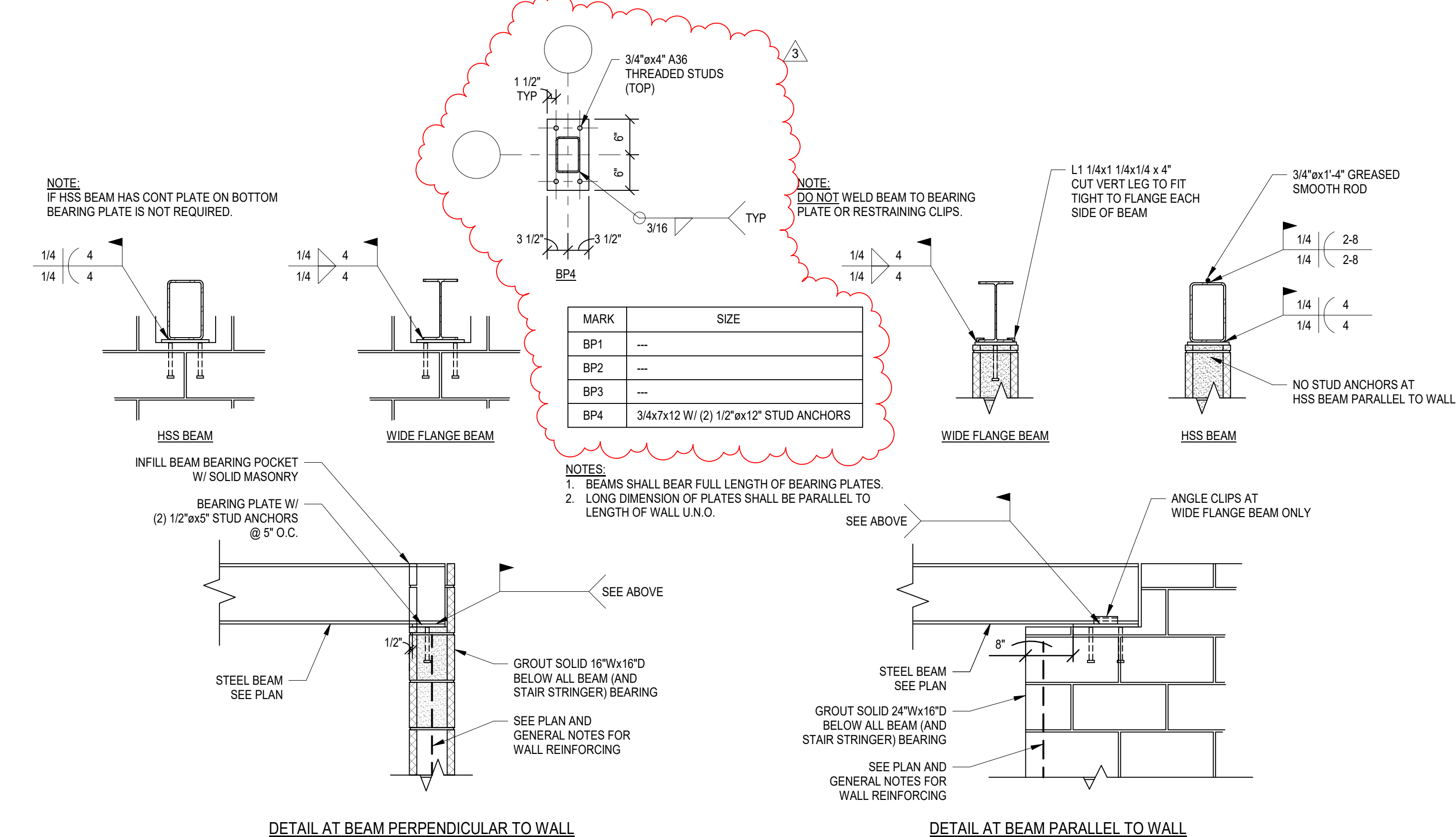


**D** TYPICAL C.M.U. BOND BEAM DETAIL  
NOT TO SCALE

**E** TYPICAL MASONRY LINTEL BEARING DETAIL  
NOT TO SCALE

**F** TYPICAL STEEL LINTEL BEARING DETAIL  
NOT TO SCALE

**G** TYPICAL LINTEL SCHEDULE  
NOT TO SCALE



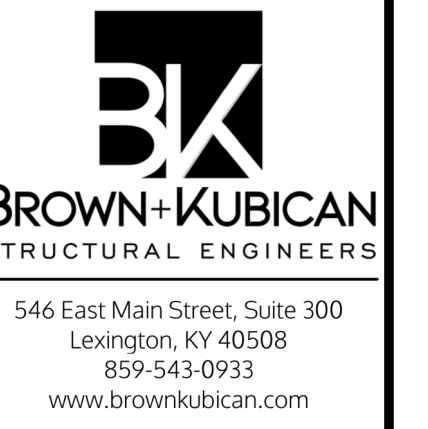
**H** TYPICAL BEAM BEARING ON MASONRY DETAIL  
NOT TO SCALE

**J** TYPICAL MASONRY PARTITION BRACING AT FLOOR OR ROOF DETAIL  
NOT TO SCALE

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**BP-02**  
MICHAEL D. RANKIN MD HEALTH  
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UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
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**STRUCTURAL**

PROJECT 202170

DATE 03.18.24

No.	Description	Date
3	BP-02 - Add 3	04/03/24

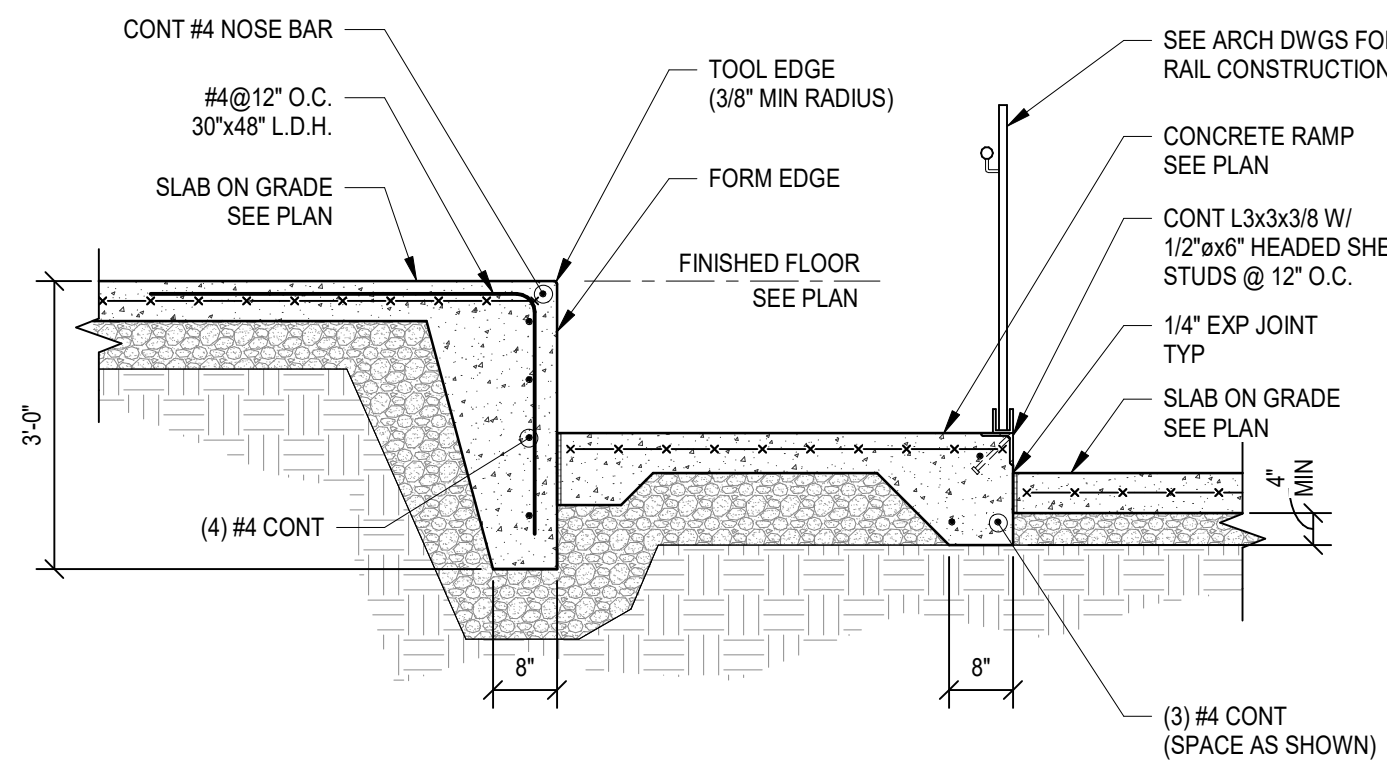
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**TYPICAL MASONRY WALL DETAILS**

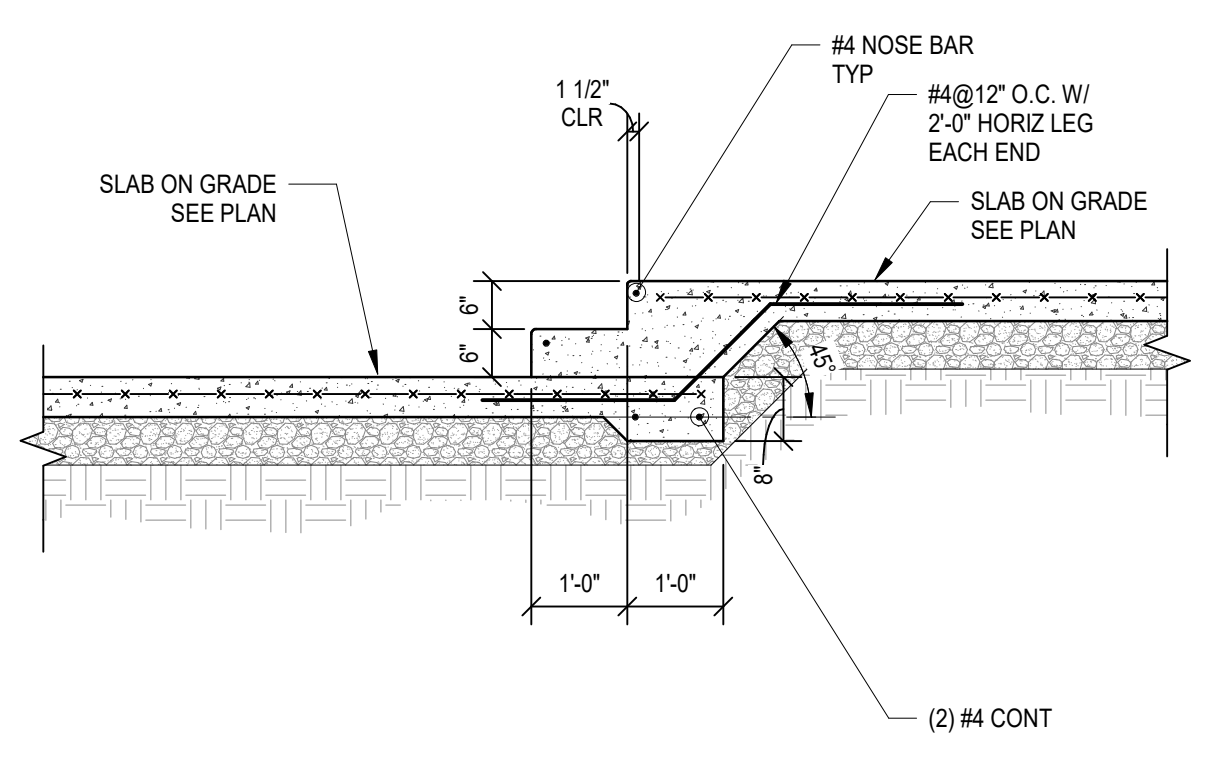
**S-305**

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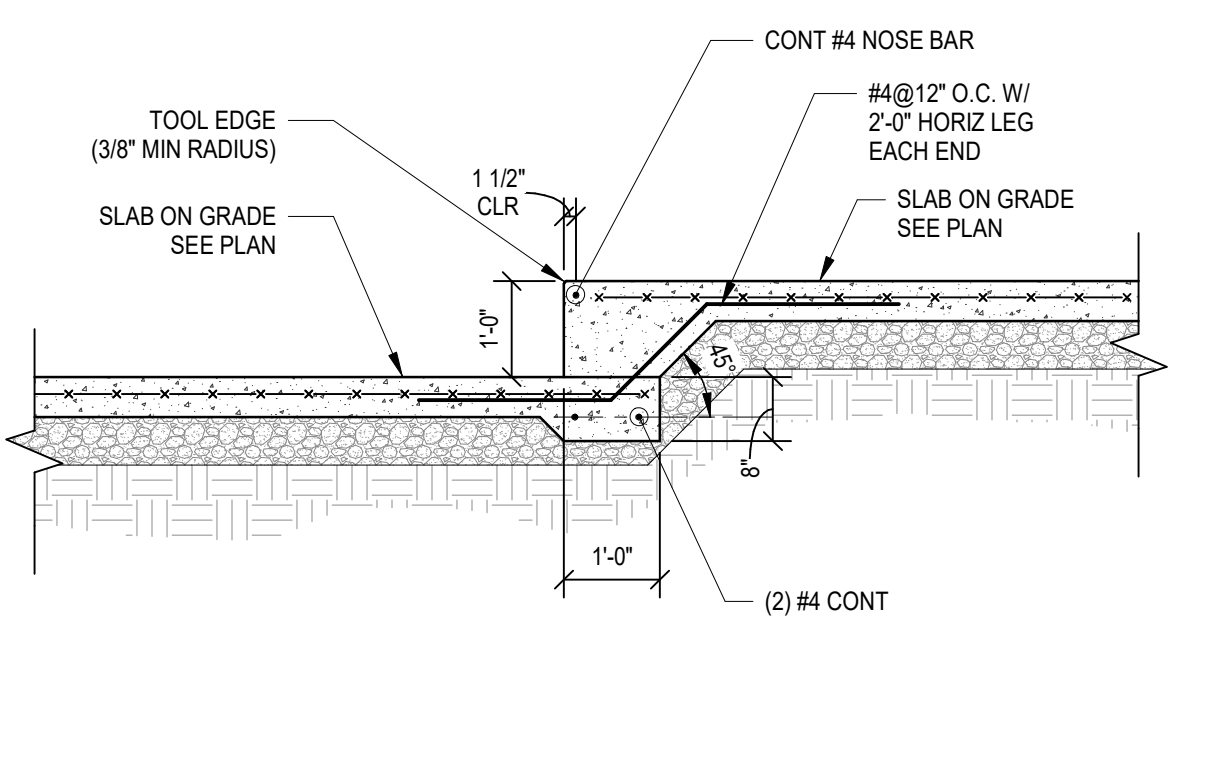




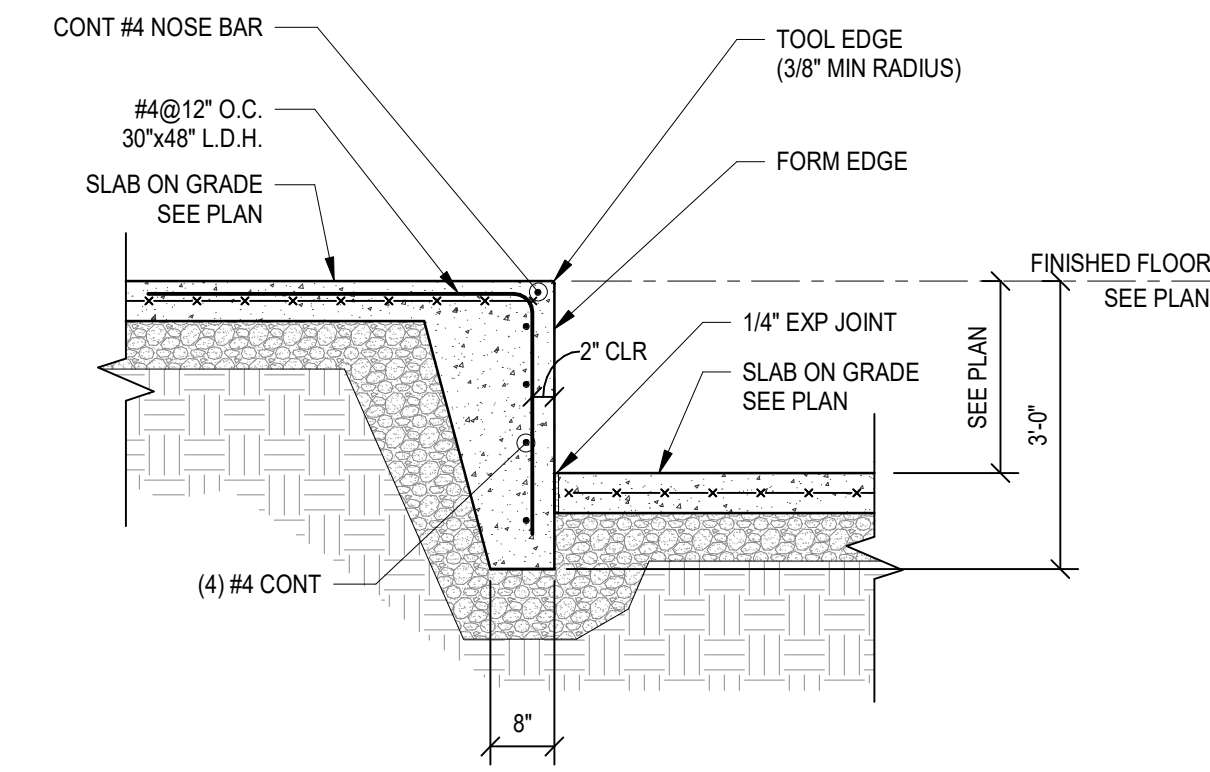
**A**  
SECTION  
S-306  
1/2" = 1'-0"



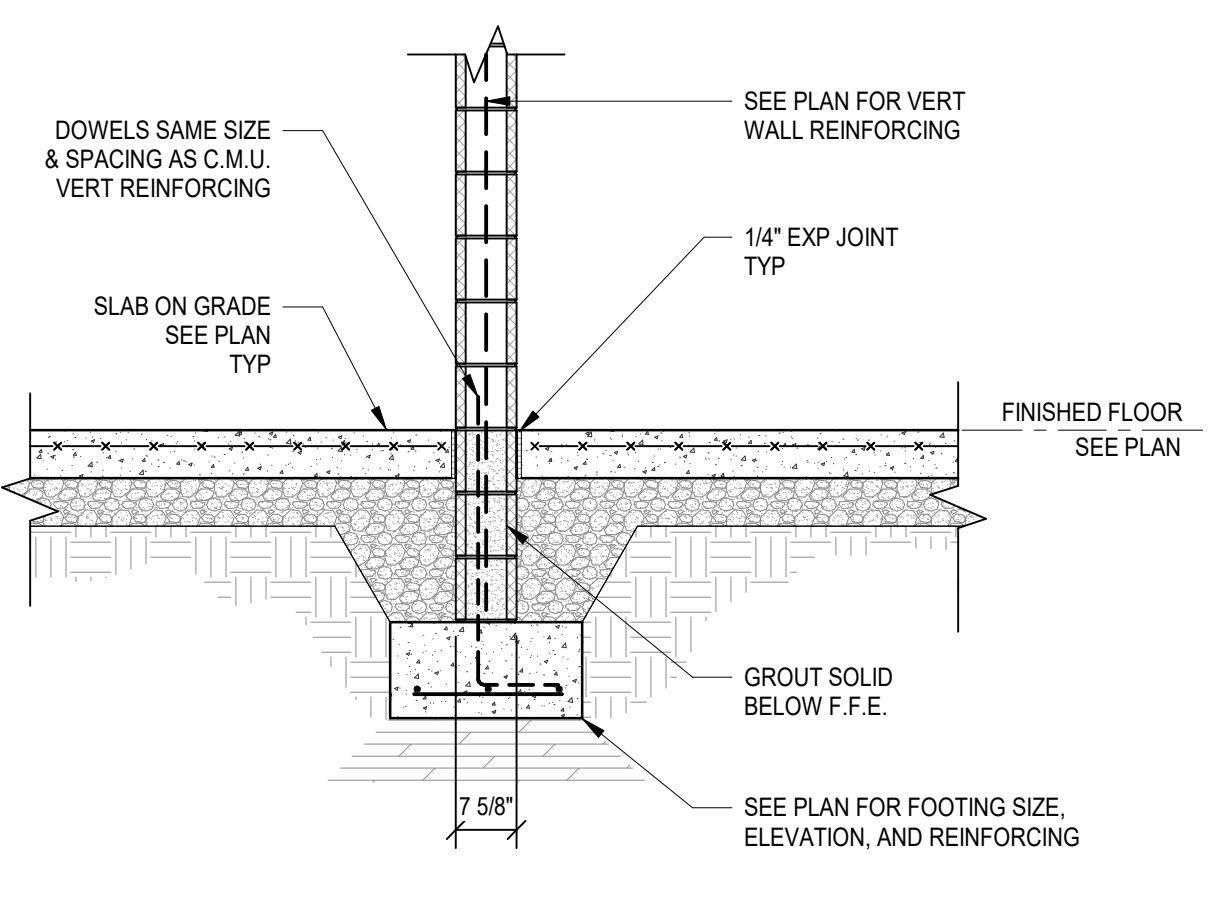
**B**  
SECTION  
S-306  
1/2" = 1'-0"



**C**  
SECTION  
S-306  
1/2" = 1'-0"

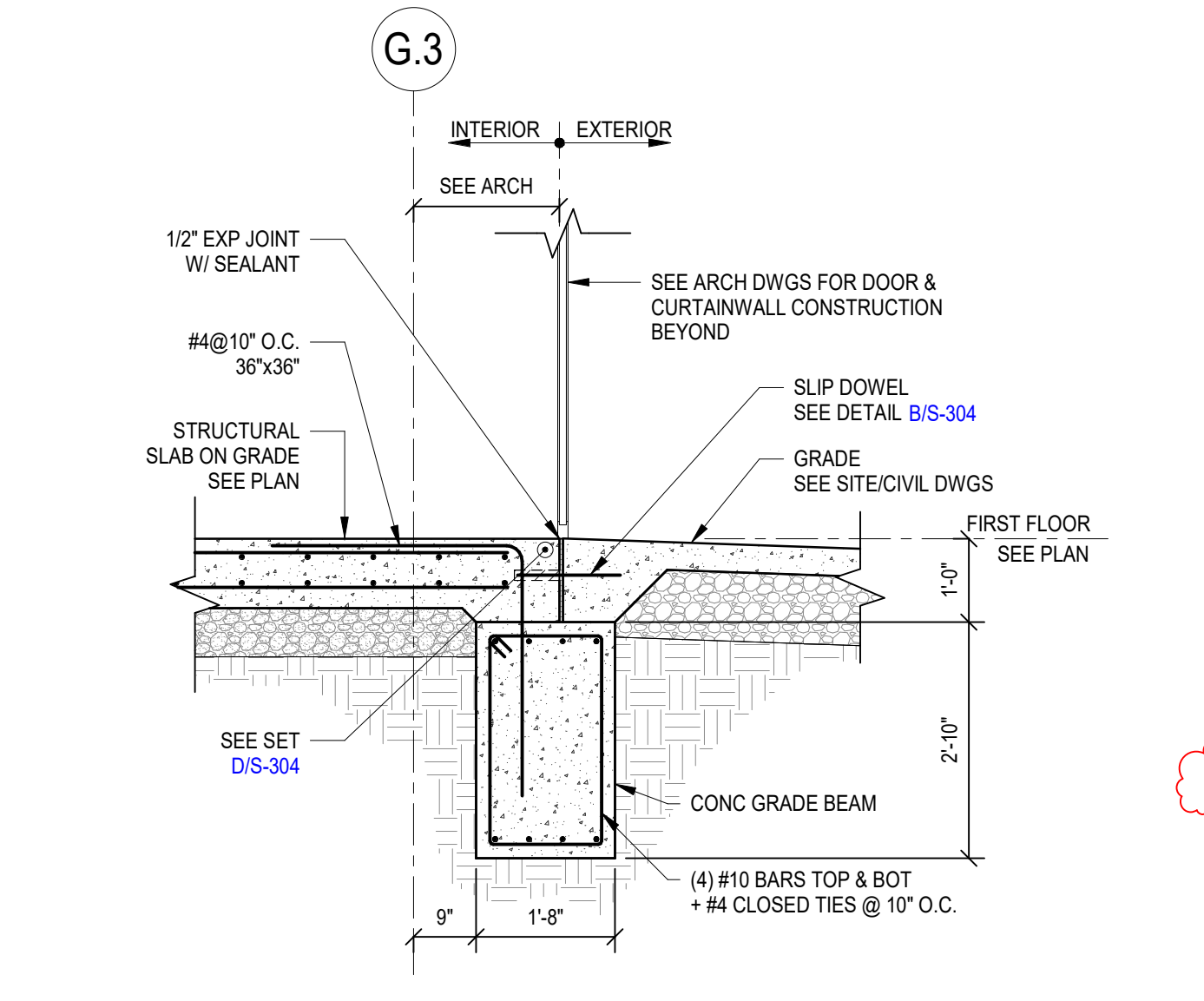


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SECTION  
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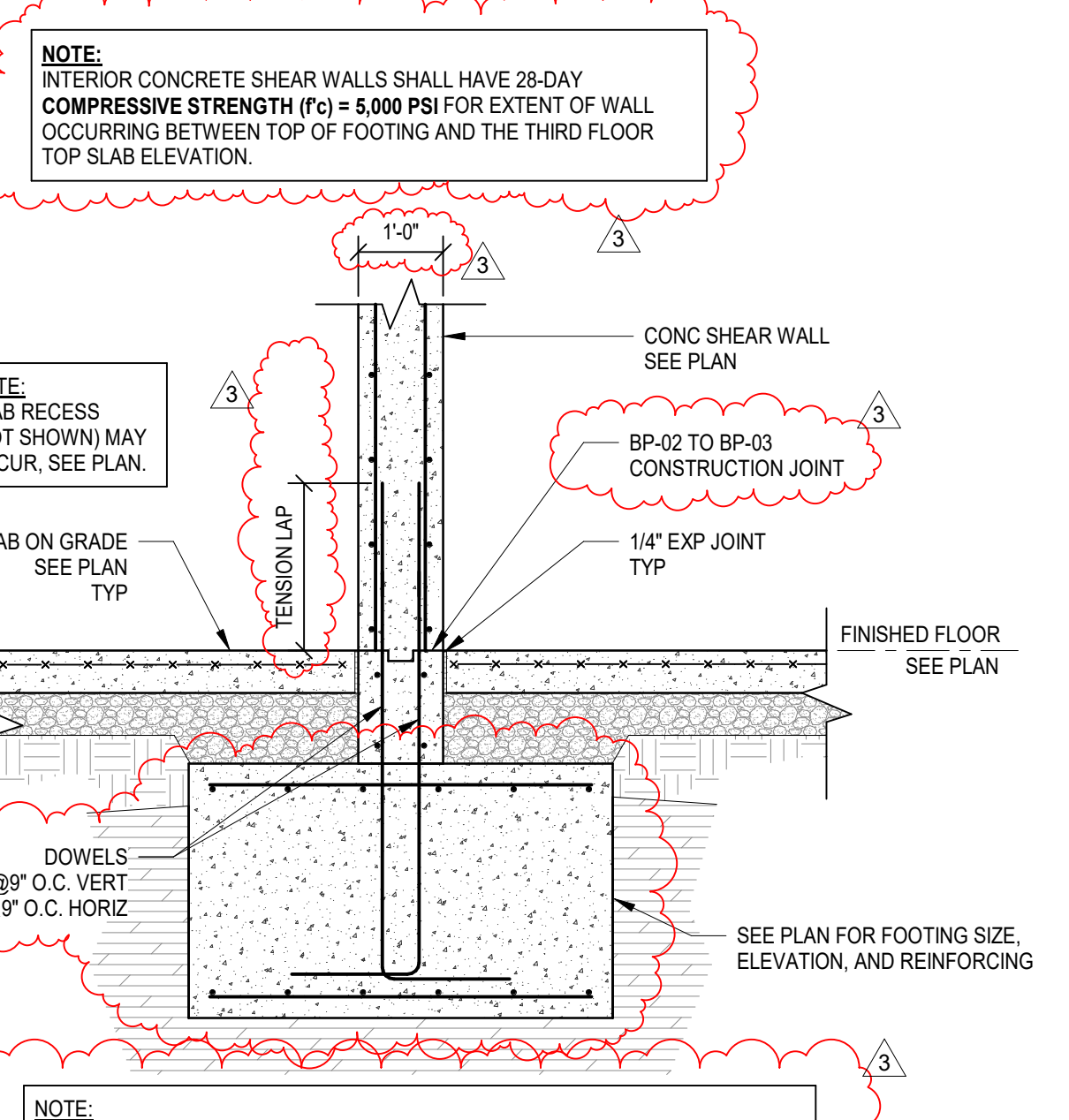


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SECTION  
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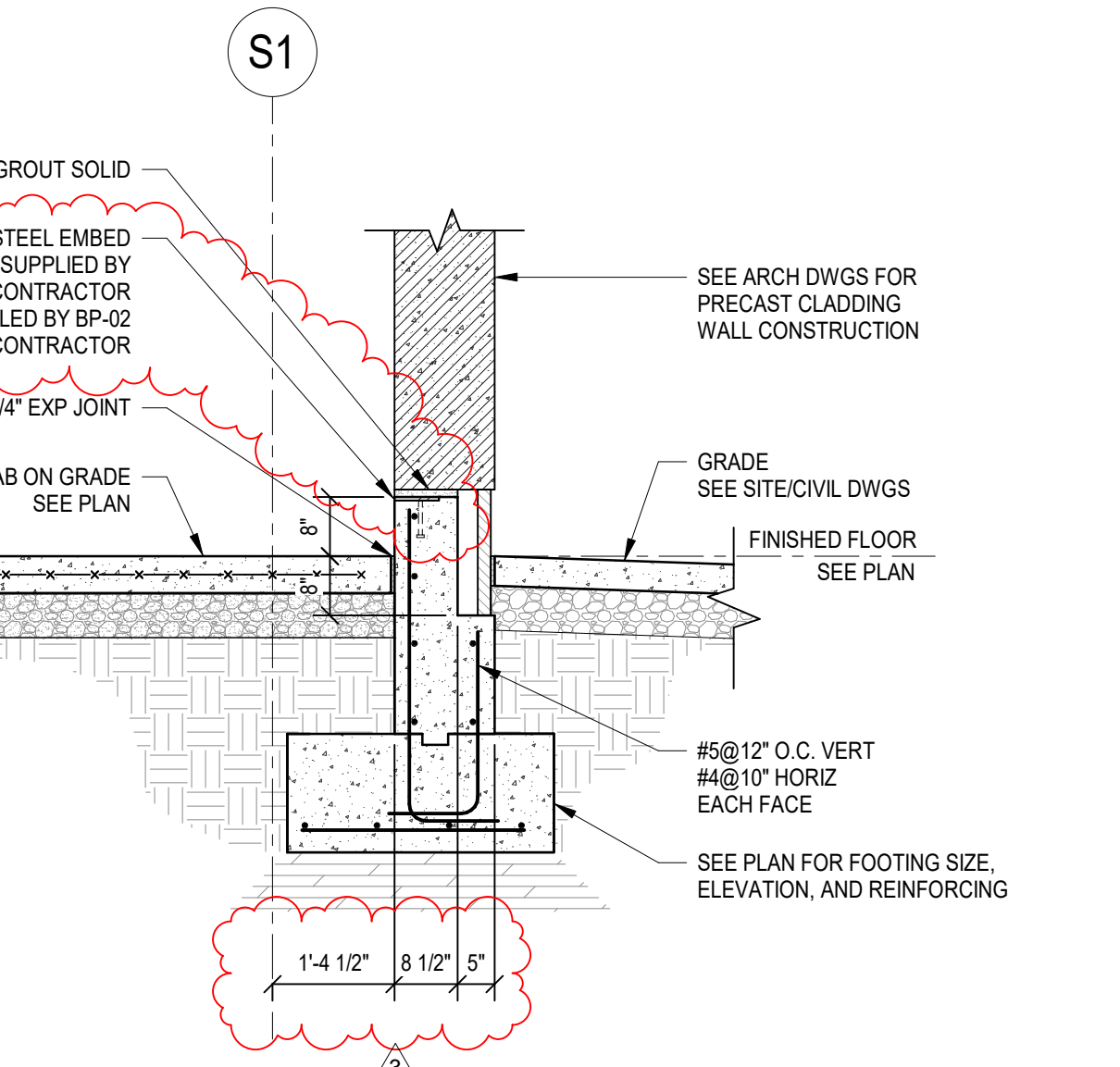
NOTE:  
SEE PLAN FOR SLAB REINFORCEMENT (BAR REINFORCEMENT, NOT SHOWN, MAY OCCUR).



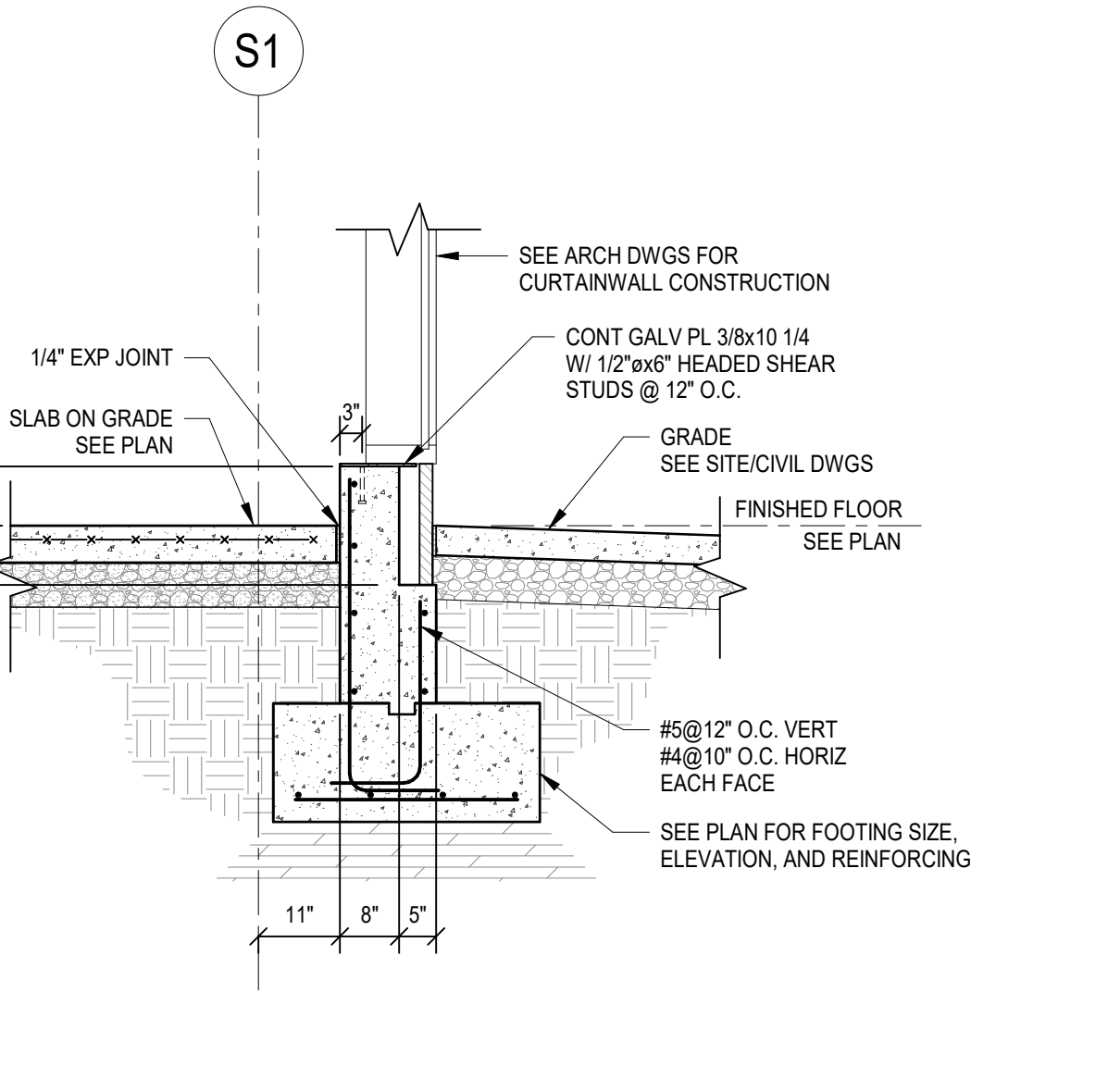
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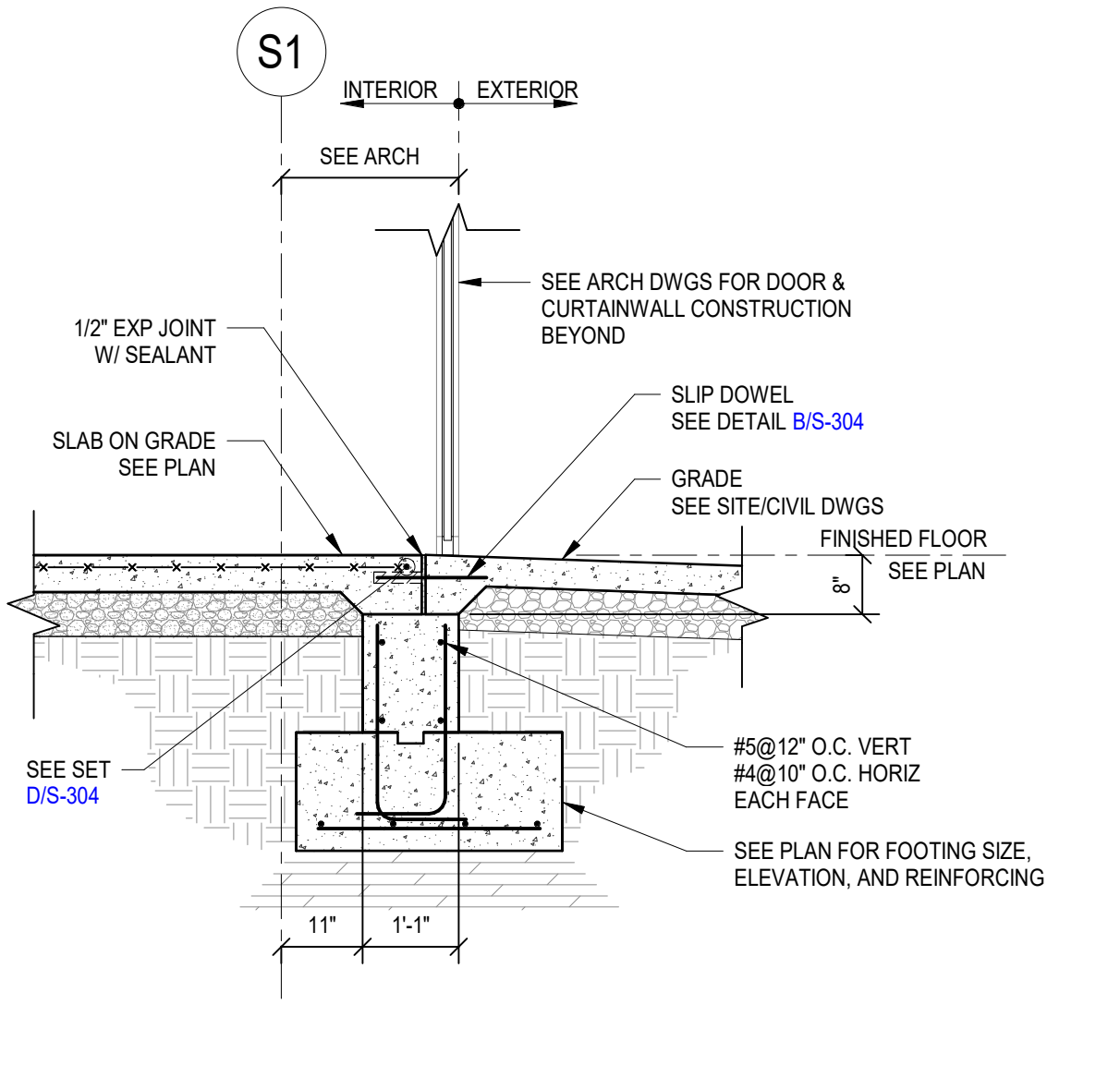
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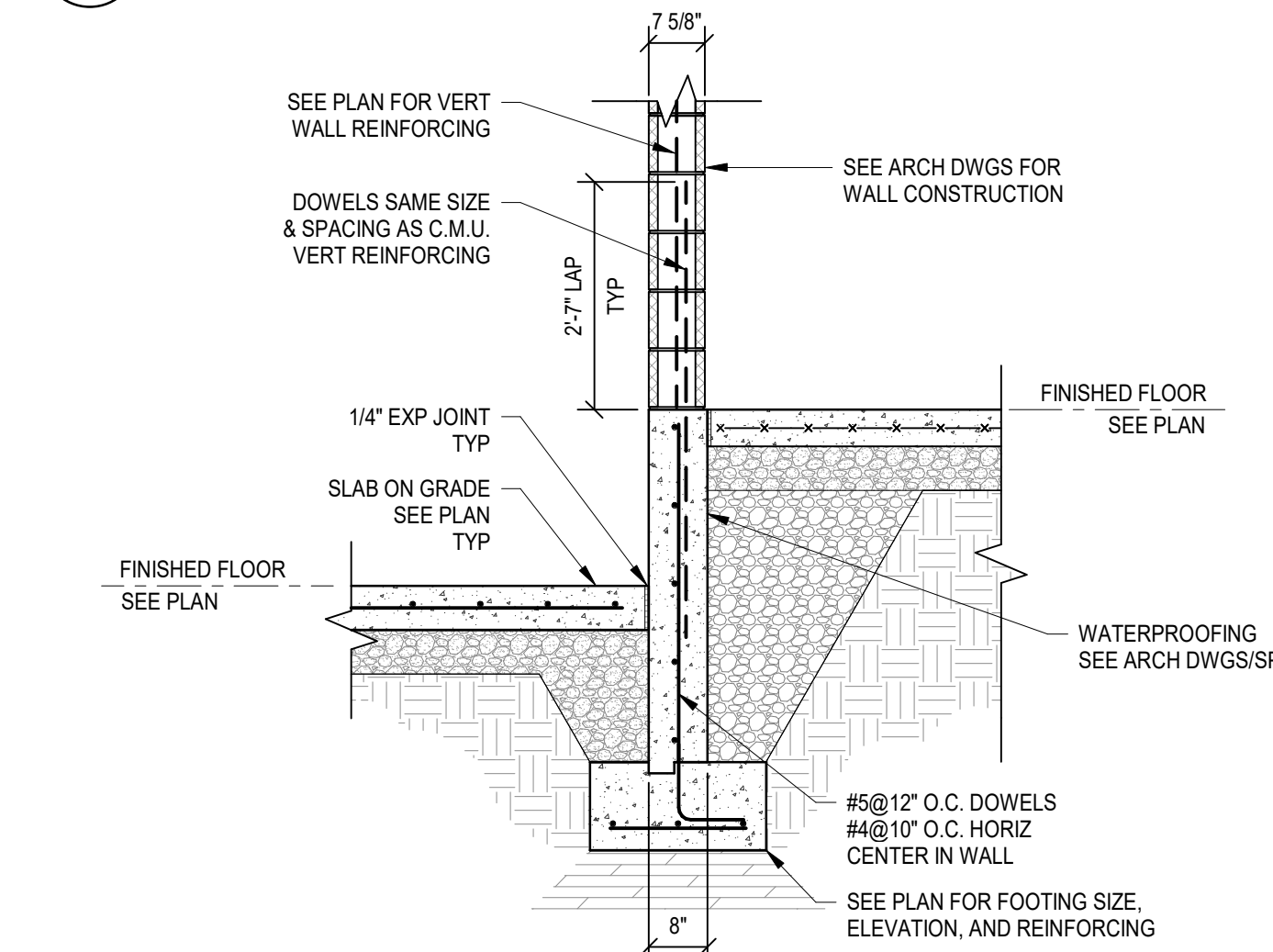
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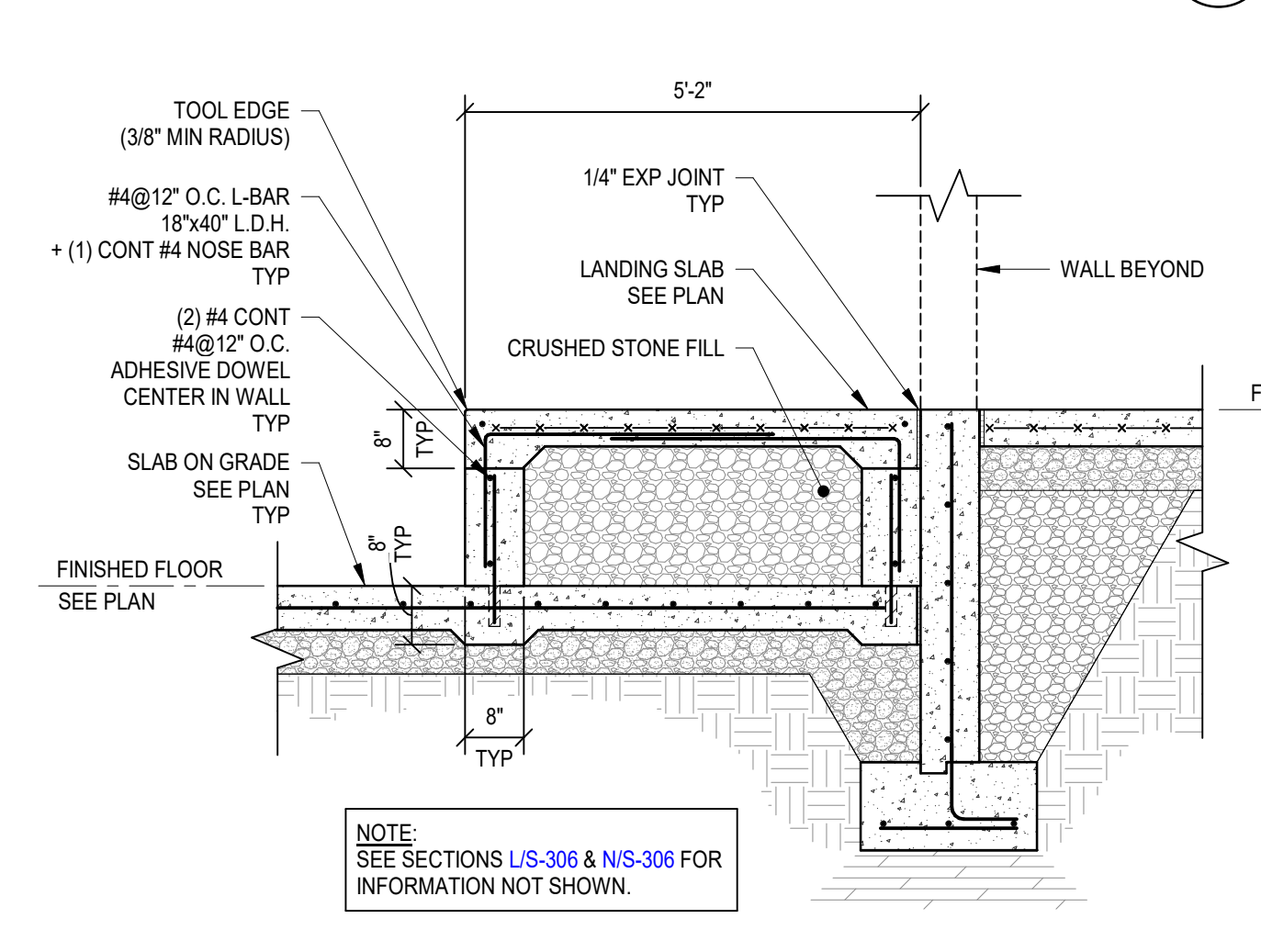
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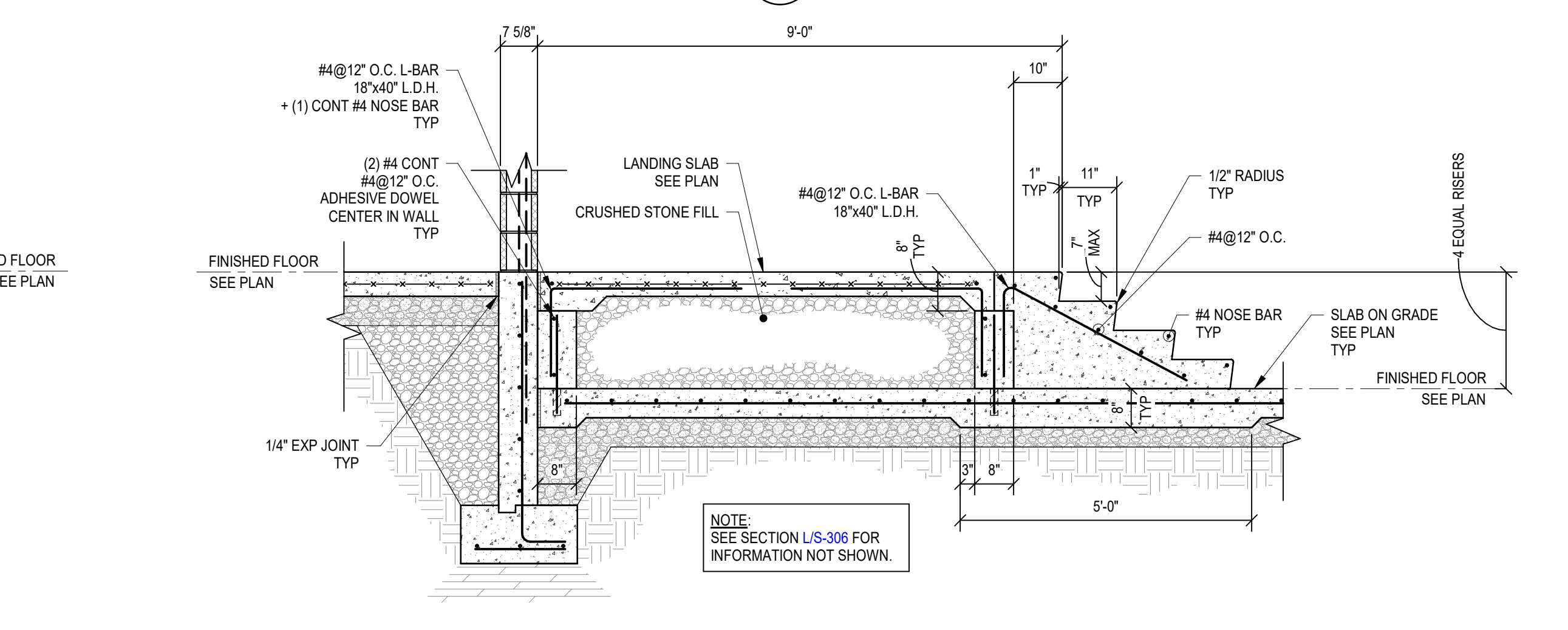
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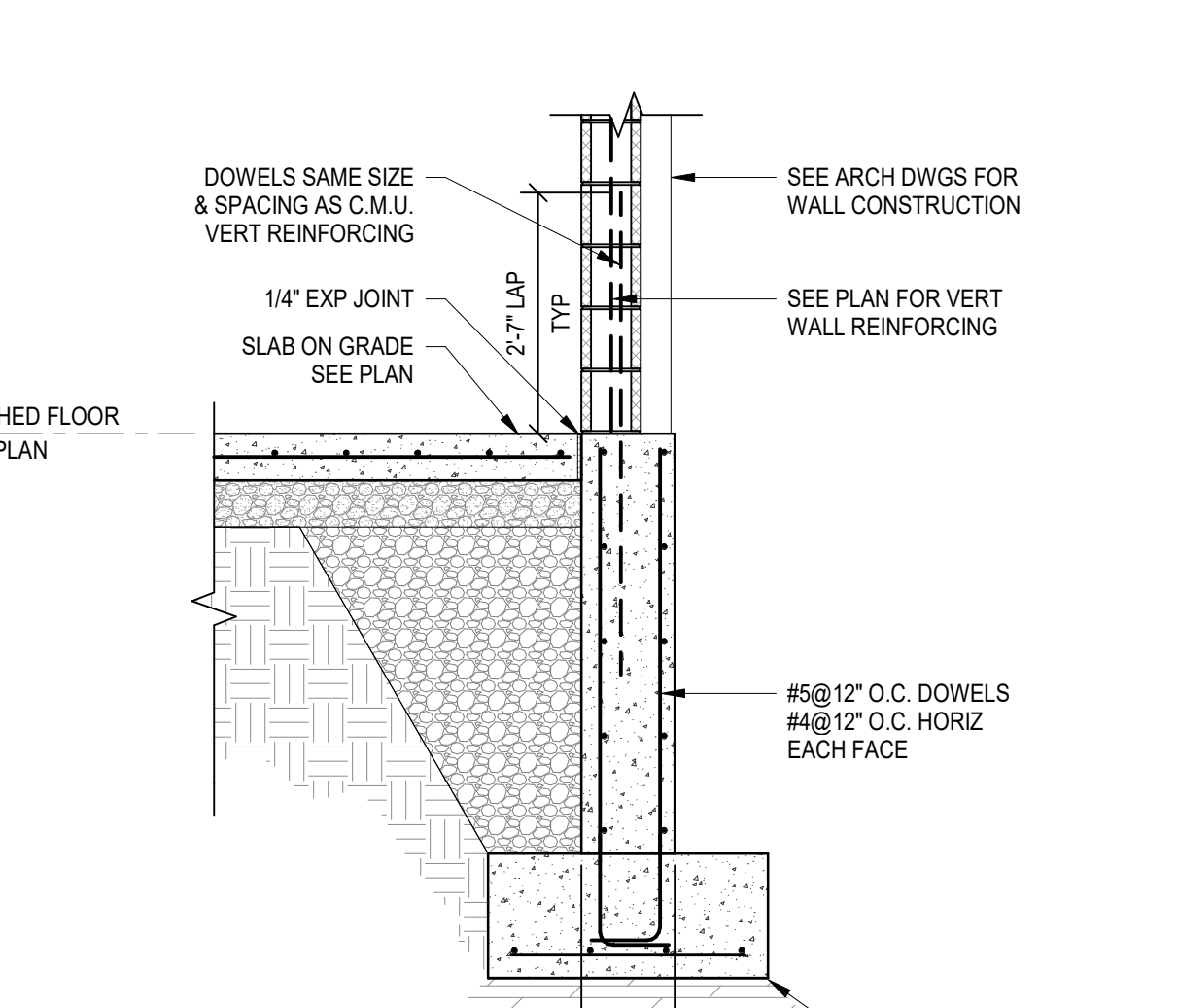
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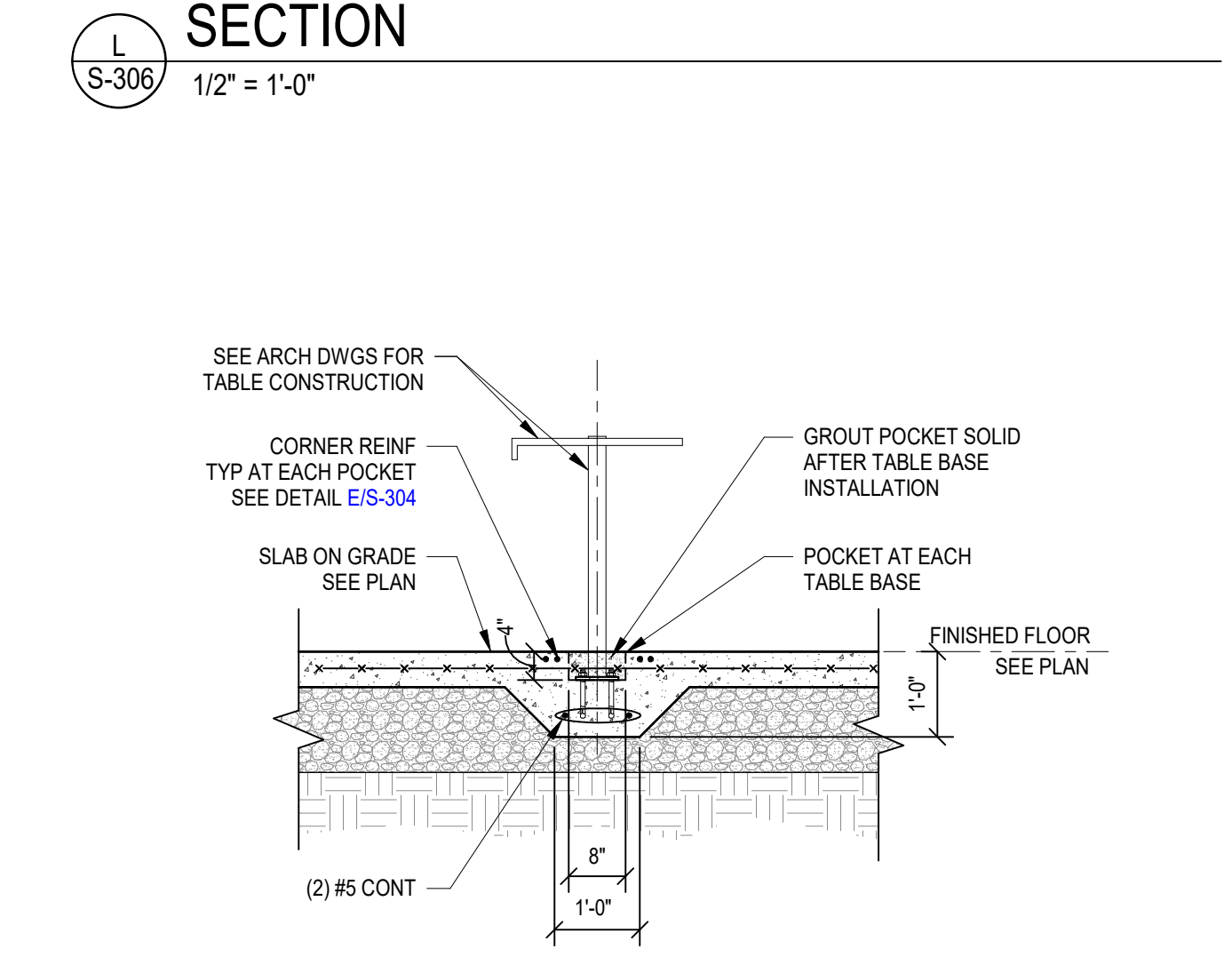
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SECTION  
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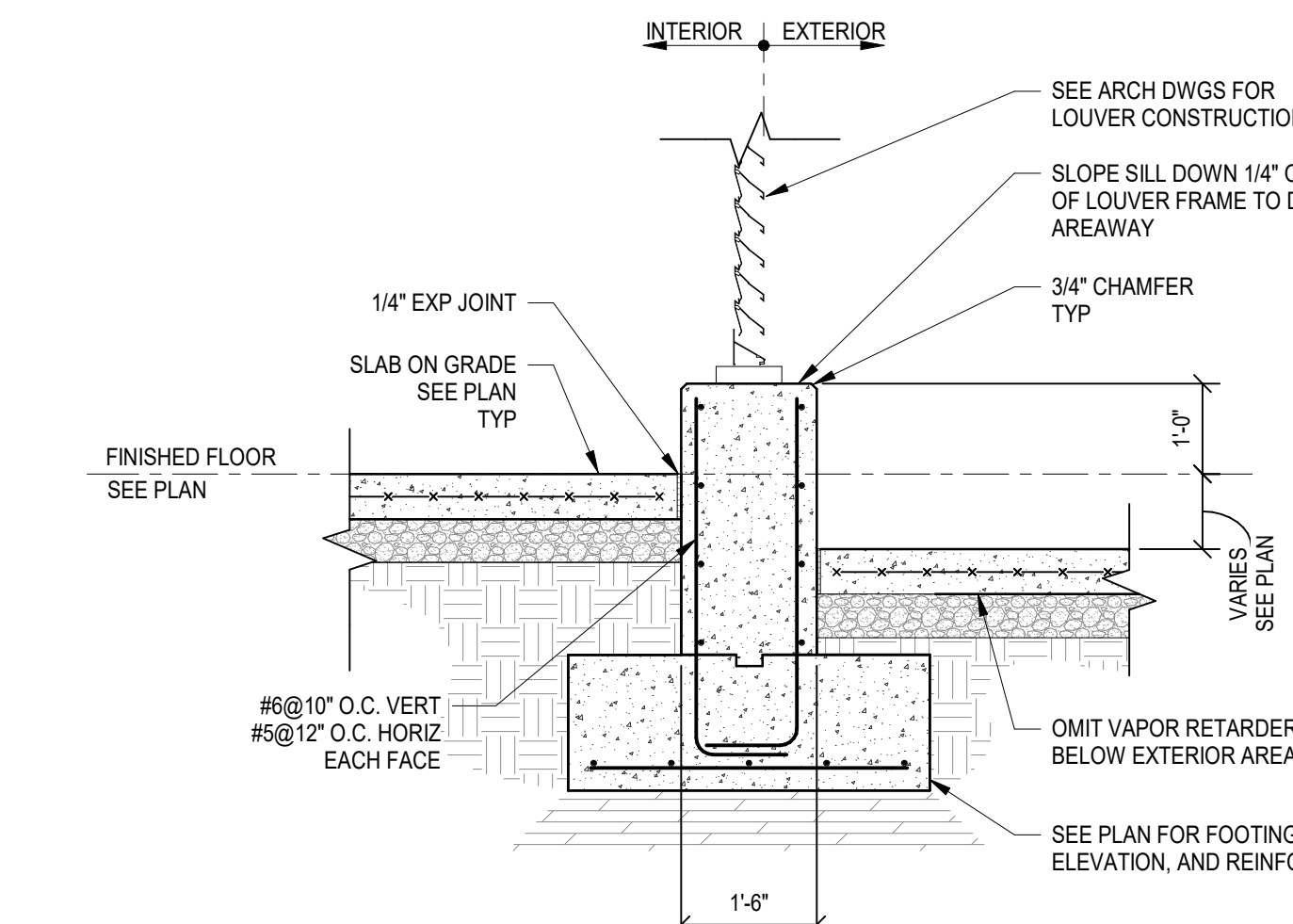
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S-306  
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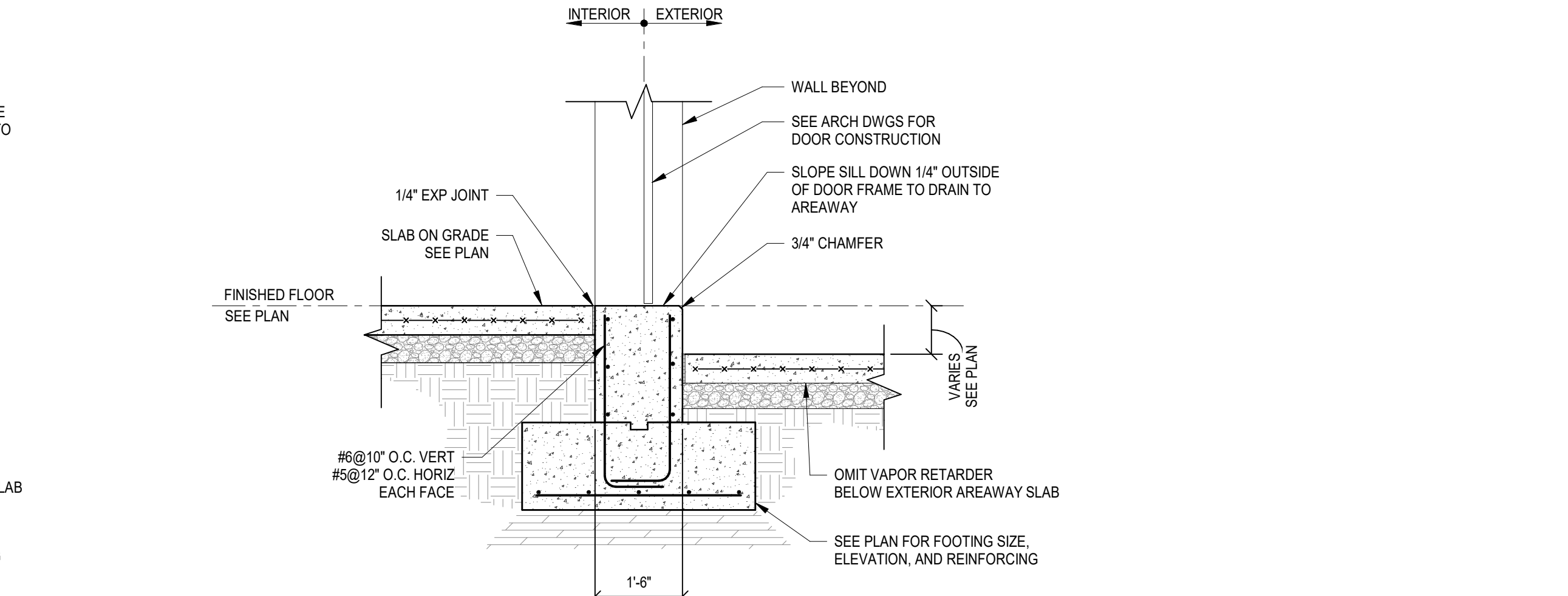
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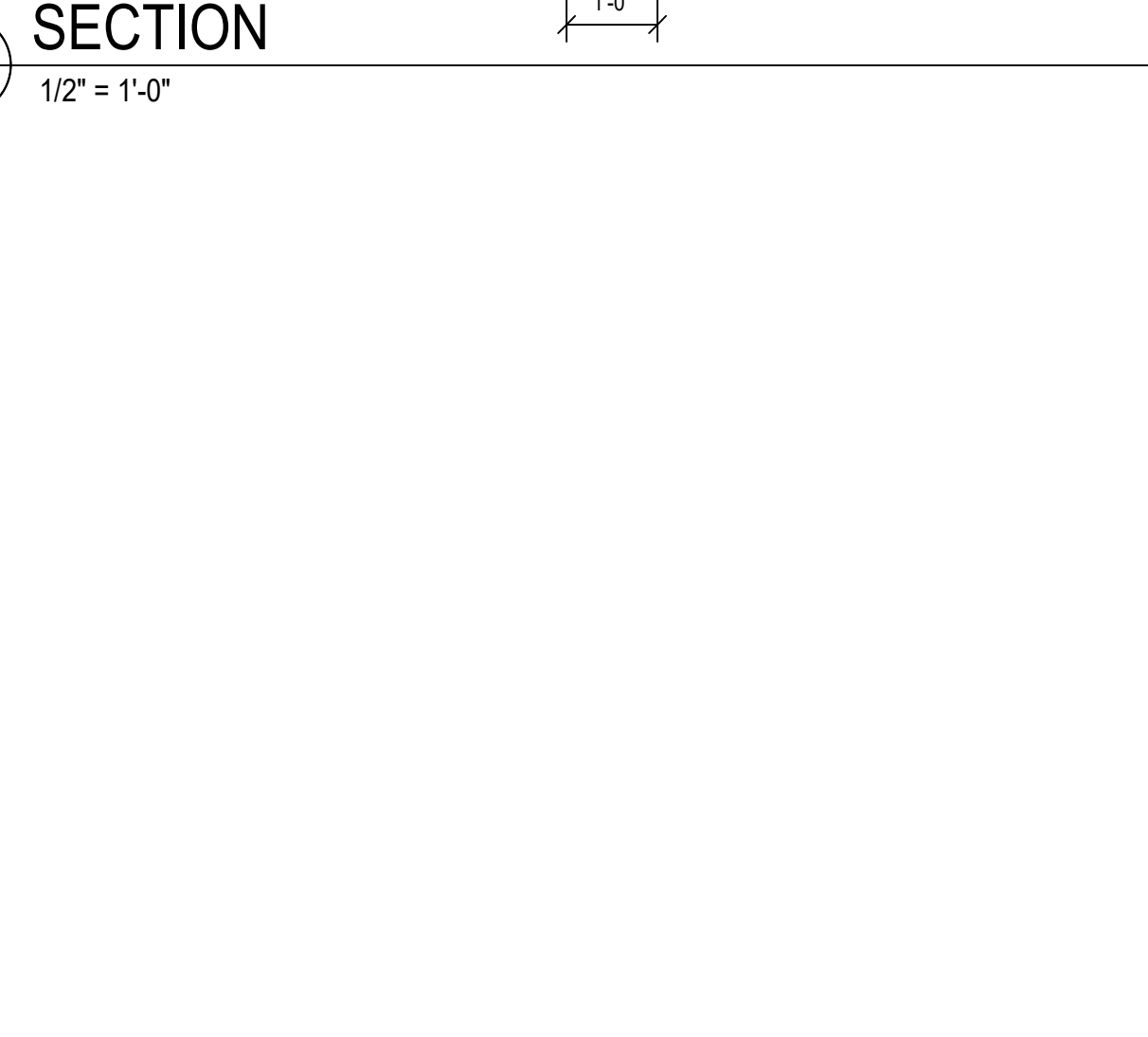
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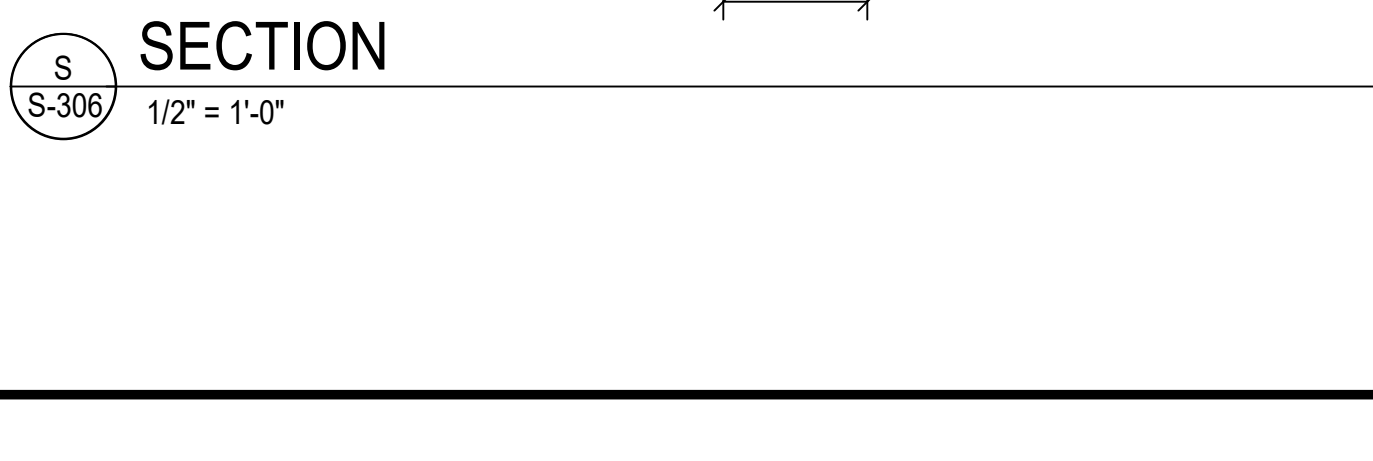
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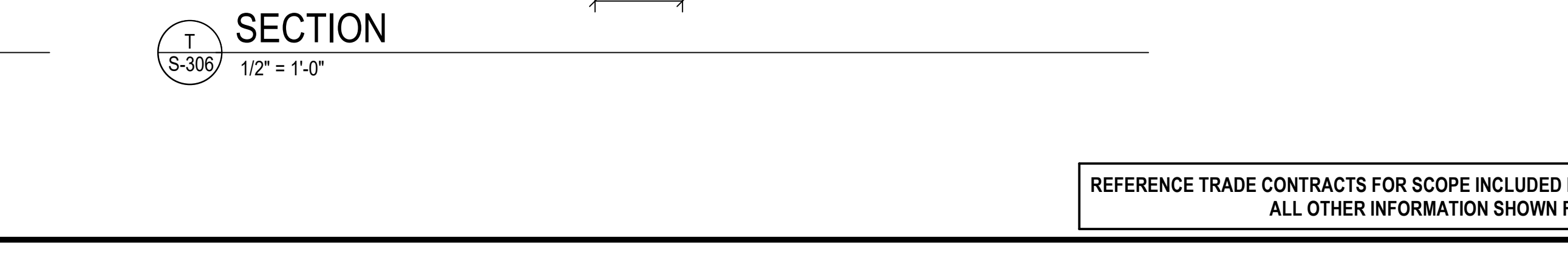
**Q**  
SECTION  
S-306  
1/2" = 1'-0"



**R**  
SECTION  
S-306  
1/2" = 1'-0"



**S**  
SECTION  
S-306  
1/2" = 1'-0"



**T**  
SECTION  
S-306  
1/2" = 1'-0"

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architects  
3225 Summit Square Plaza, Suite 300  
Lexington, Kentucky 40509  
859.252.6781

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STRUCTURAL ENGINEERS  
546 East Main Street, Suite 300  
Lexington, KY 40508  
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**EDUCATION BUILDING**  
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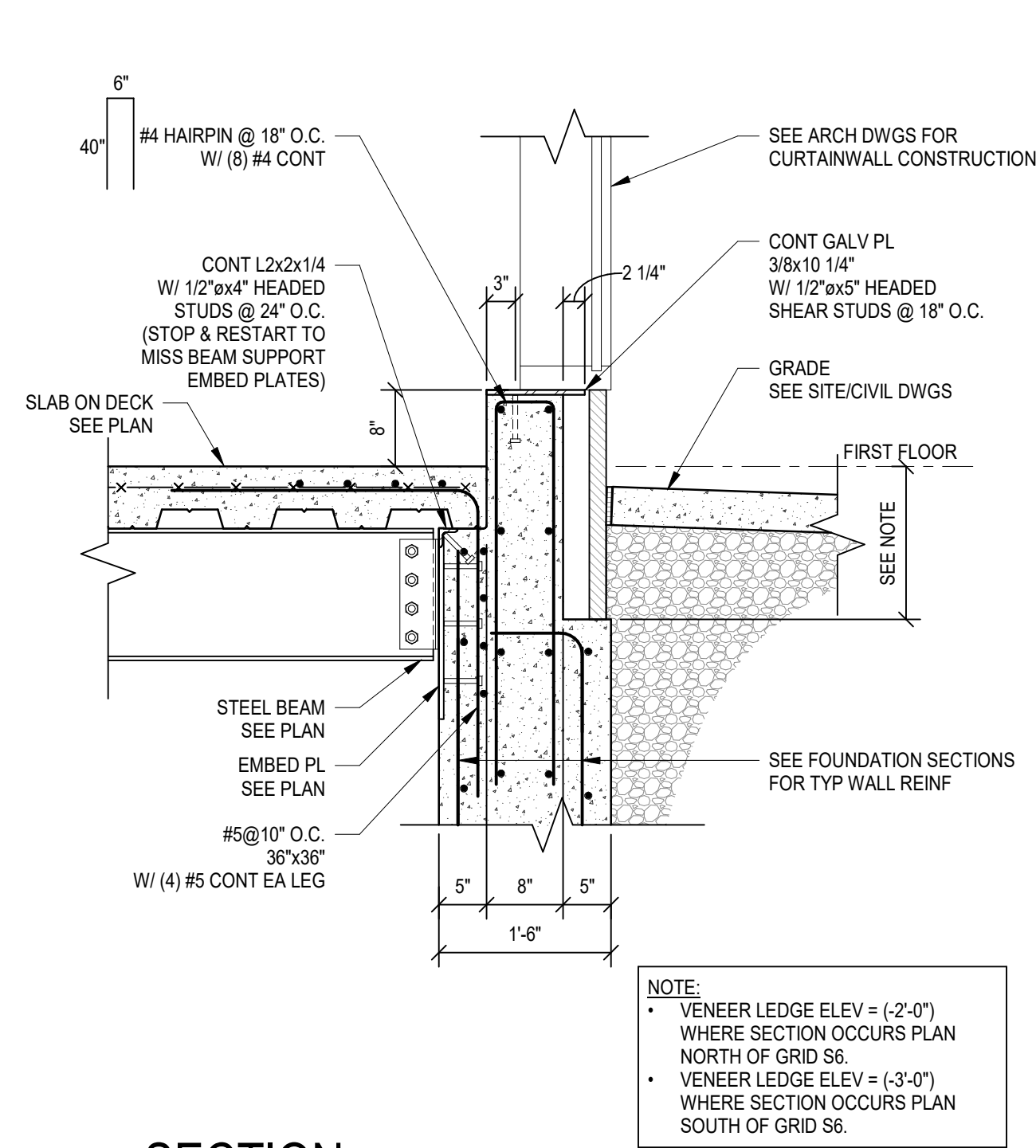
**UK**

REVISIONS		
No.	Description	Date
3	BP-02 - Add 3	04/03/24

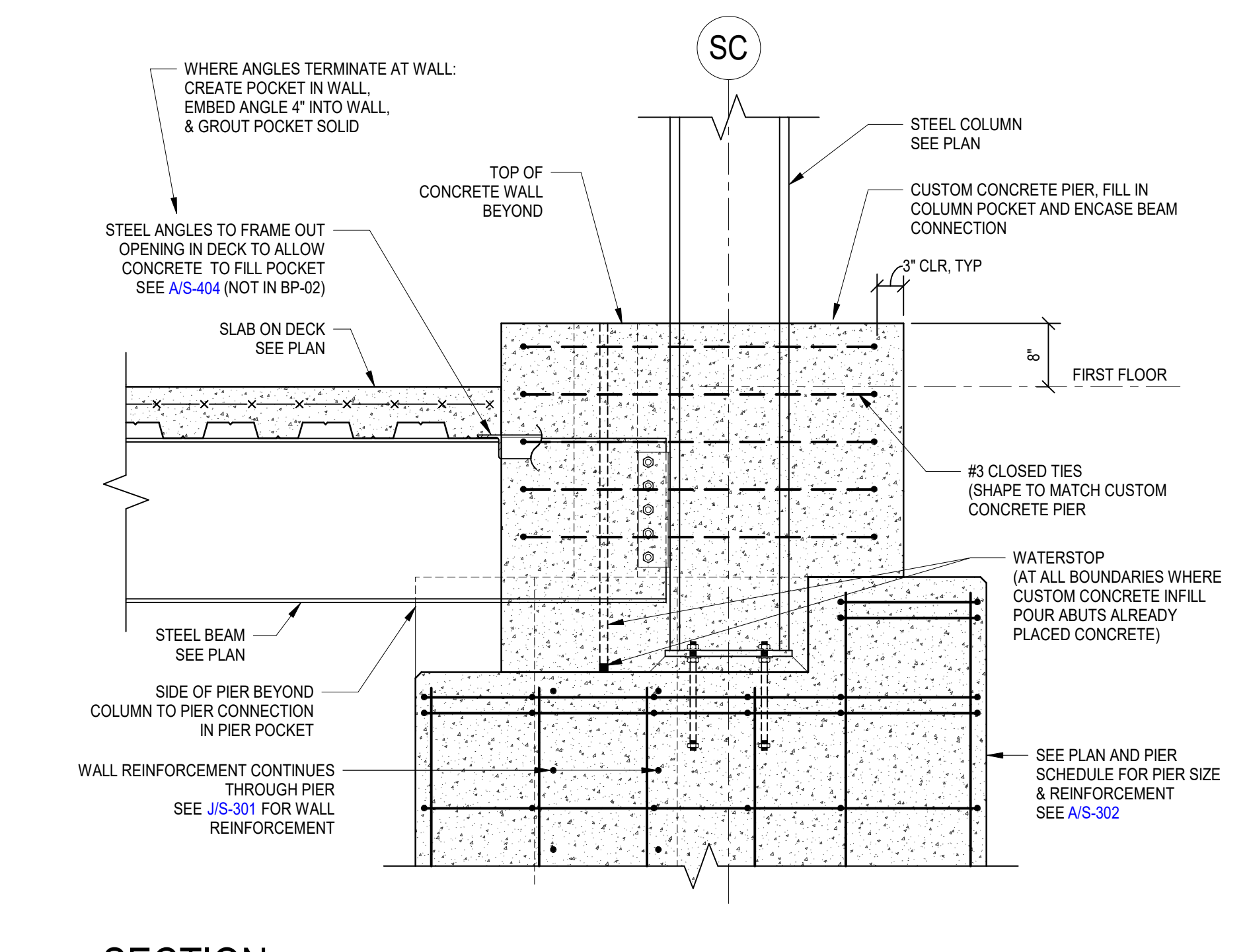
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**FOUNDATION SECTIONS**  
**S-306**  
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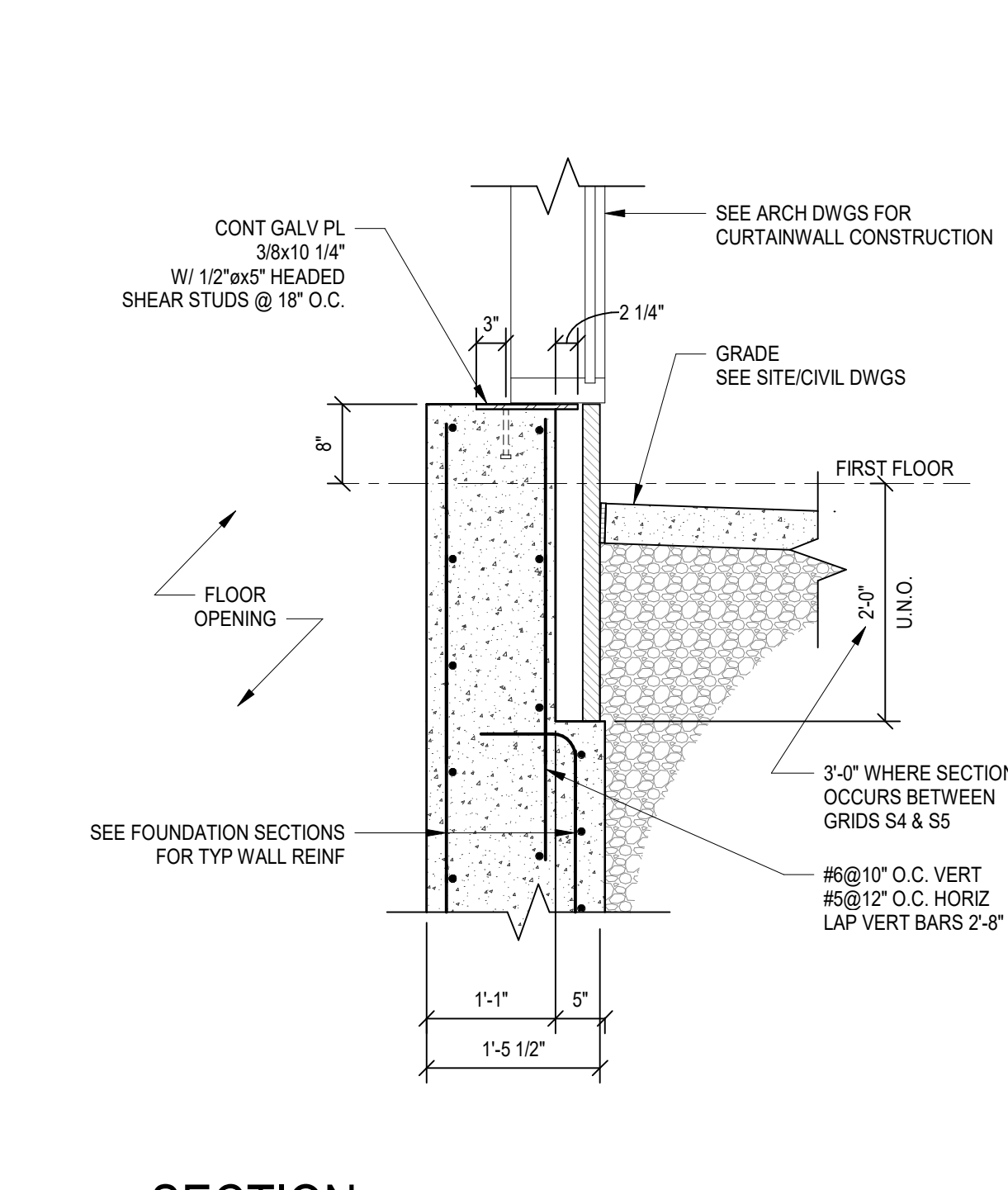
**Professional Engineer**  
BRIAN MAMILLAN  
29937  
© BROWN + KUBICAN, P.E.



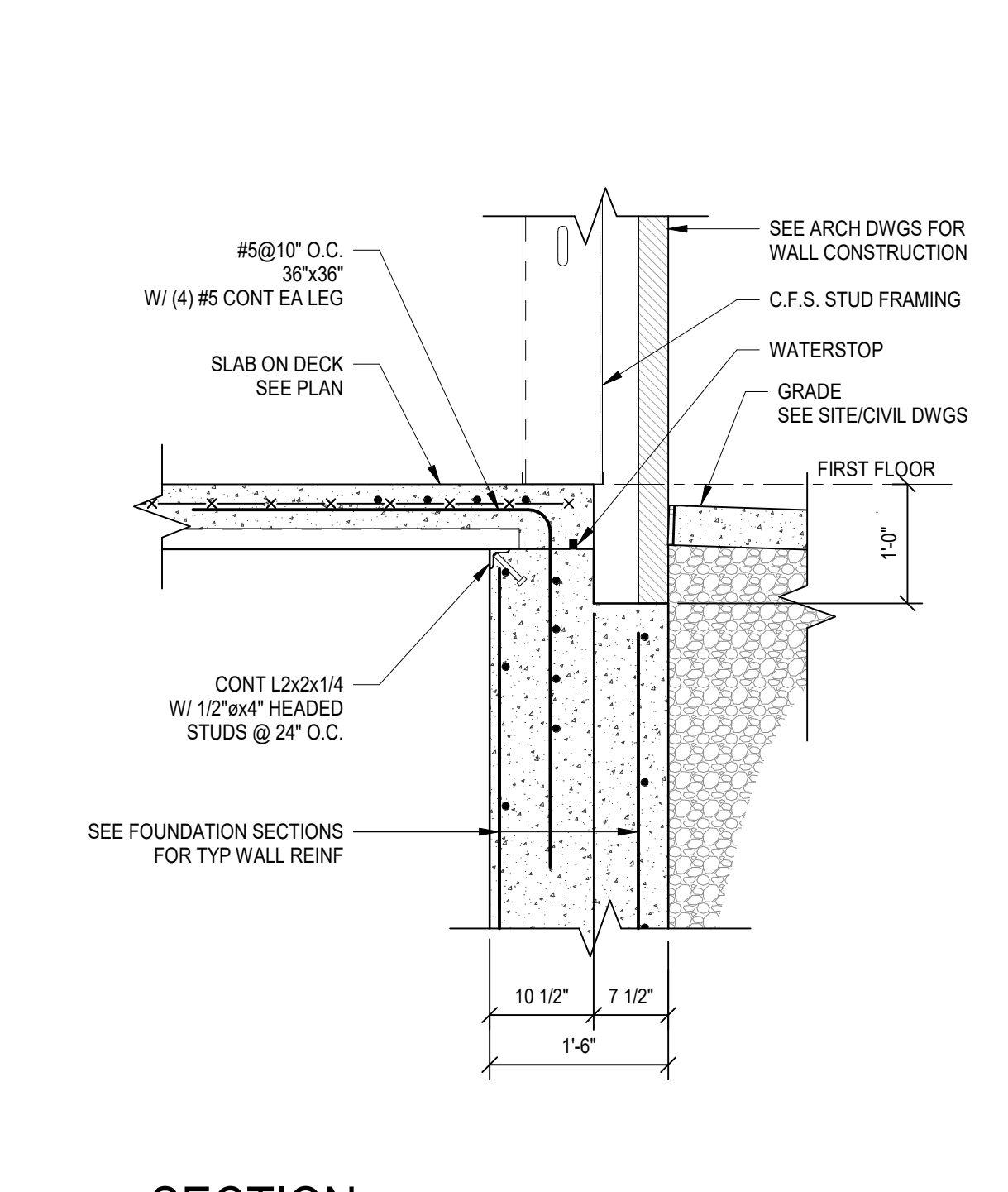
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S-307 3/4" = 1'-0"



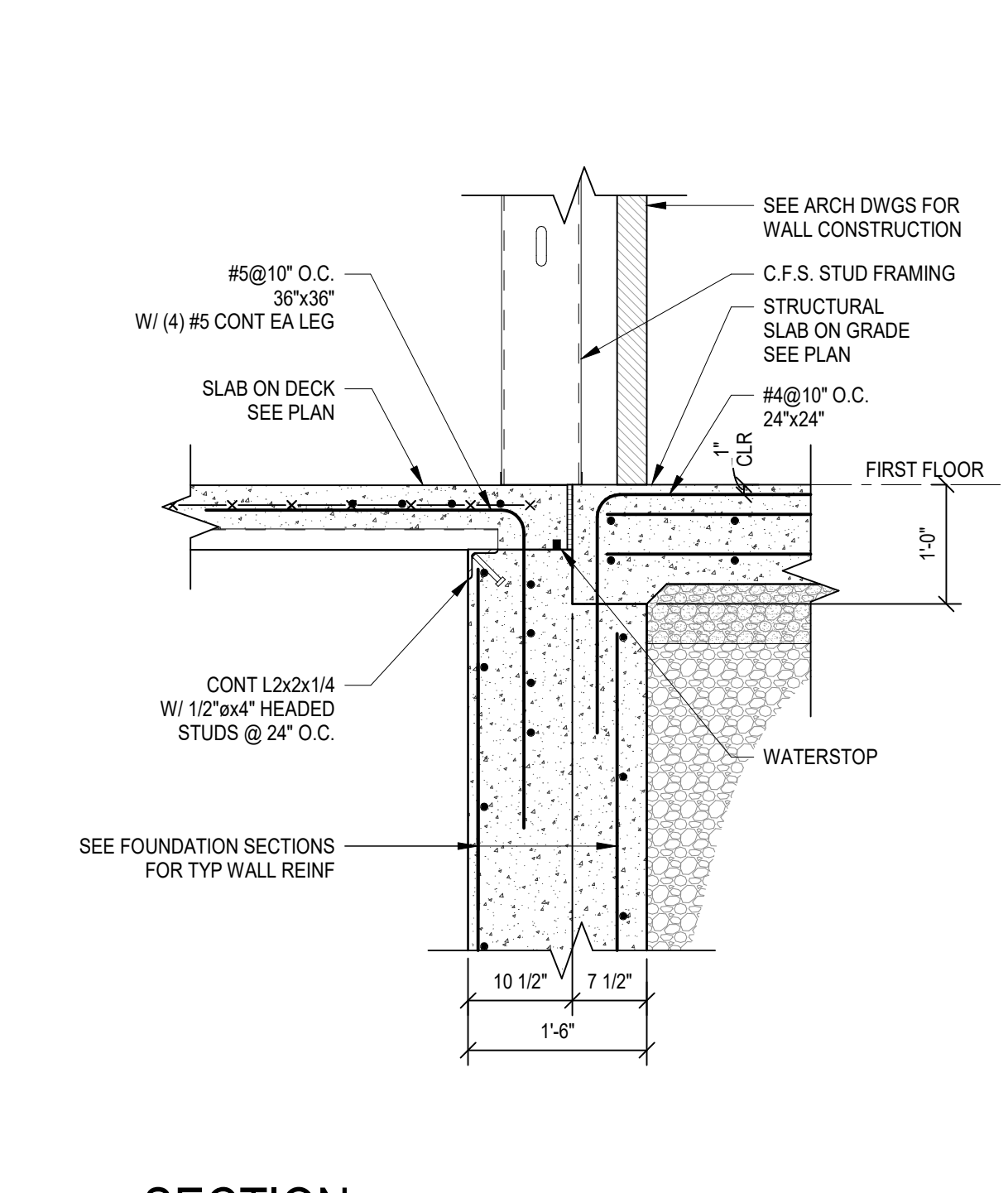
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S-307 3/4" = 1'-0"



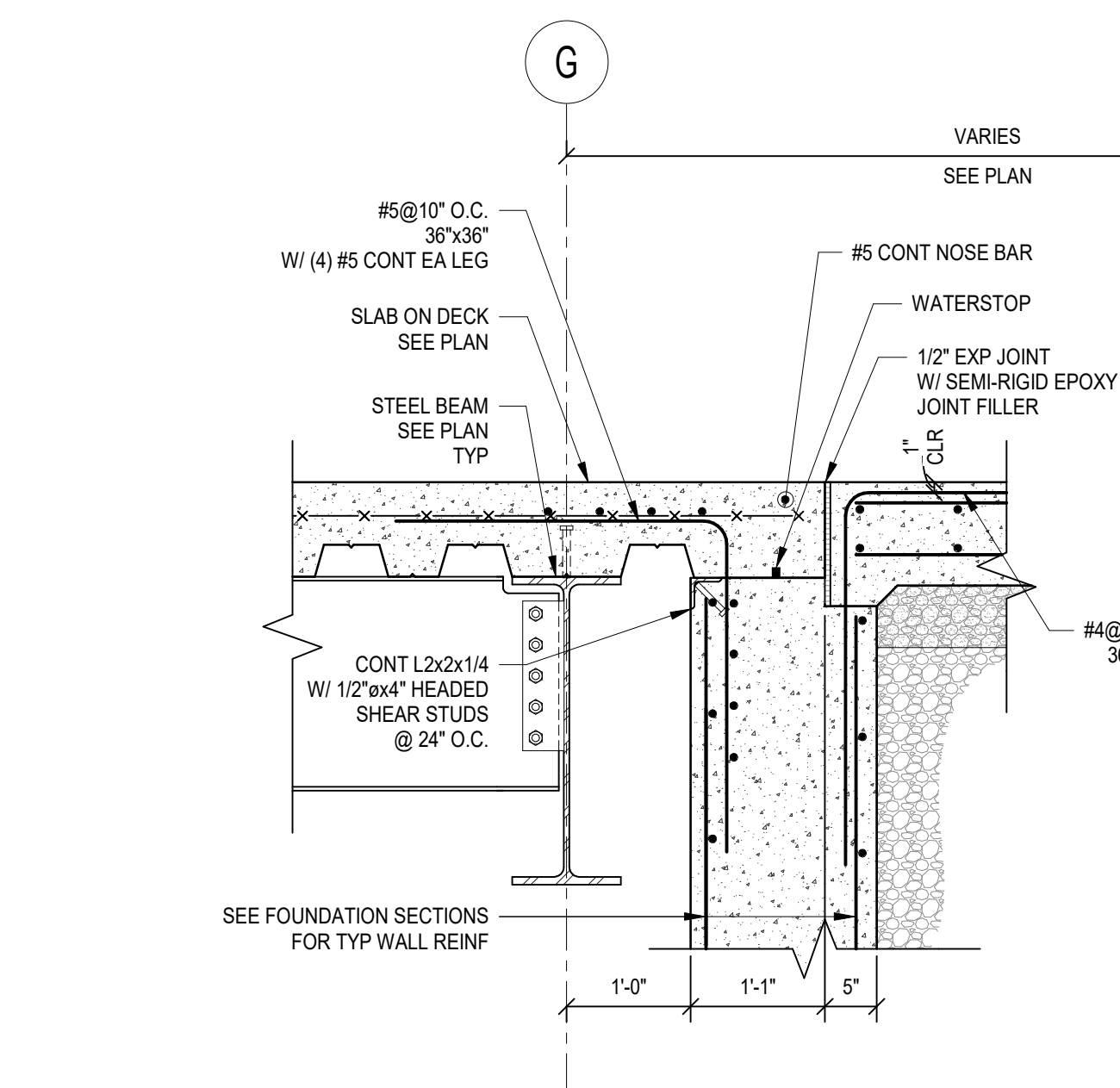
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S-307 3/4" = 1'-0"



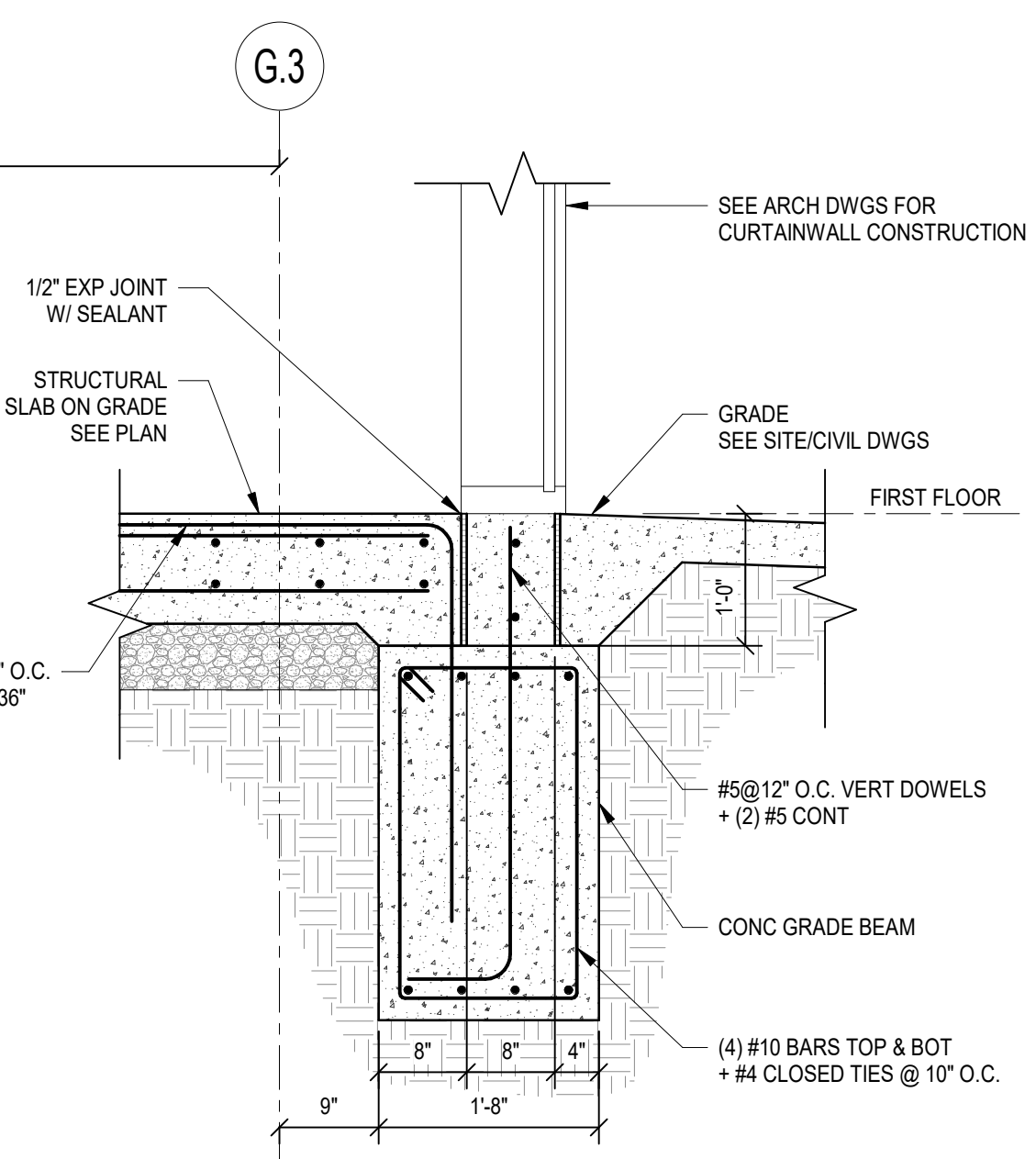
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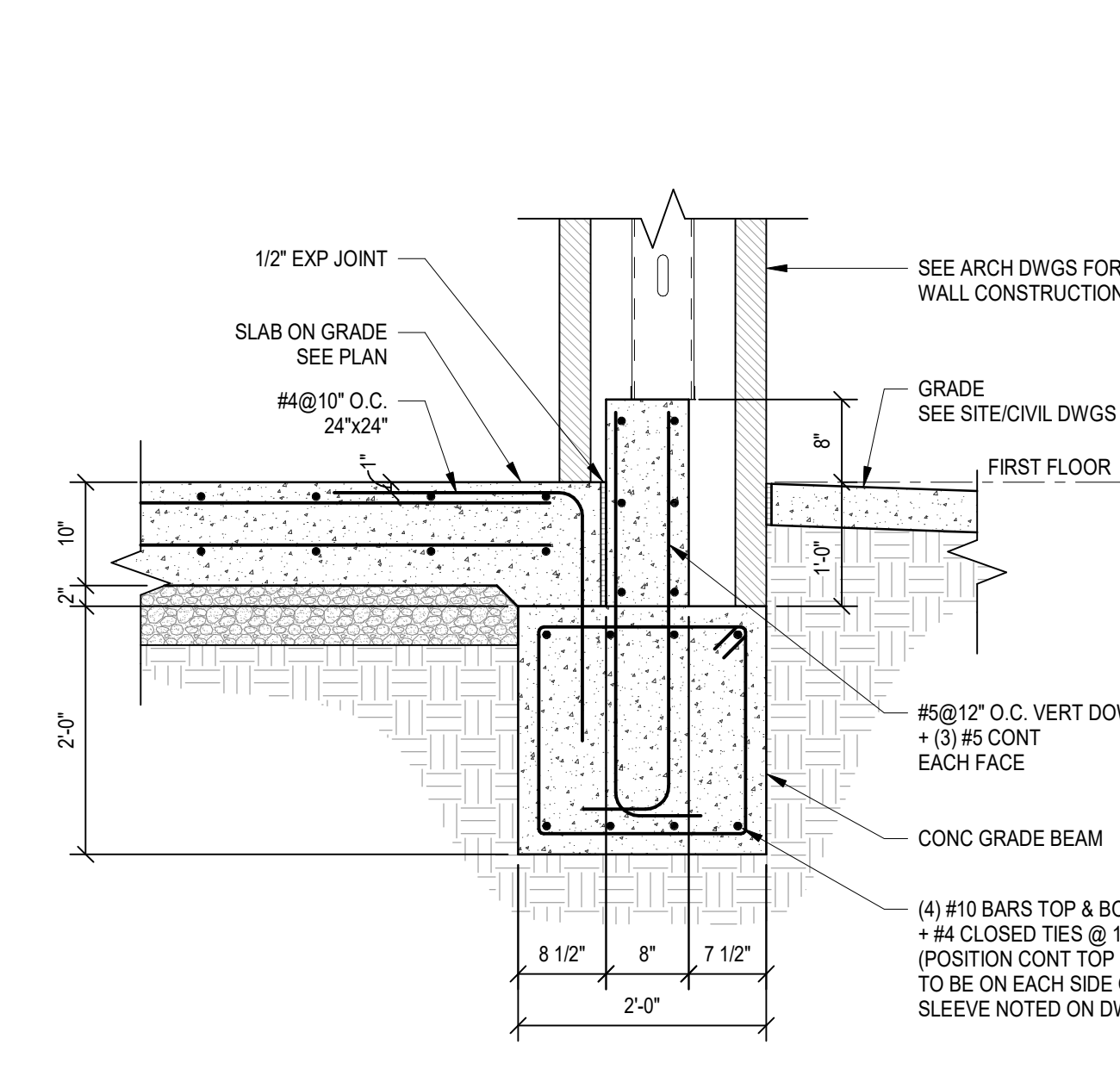
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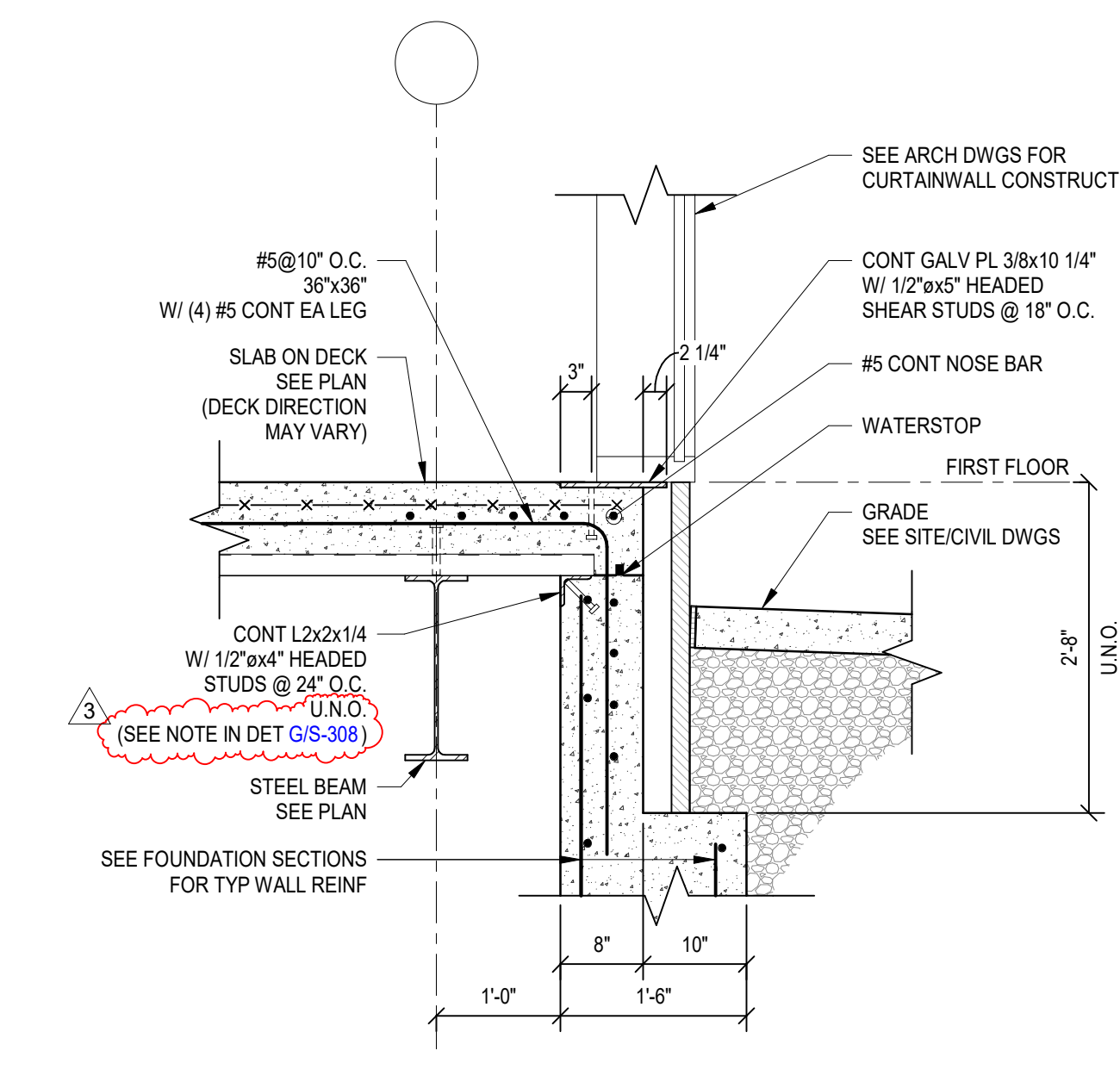
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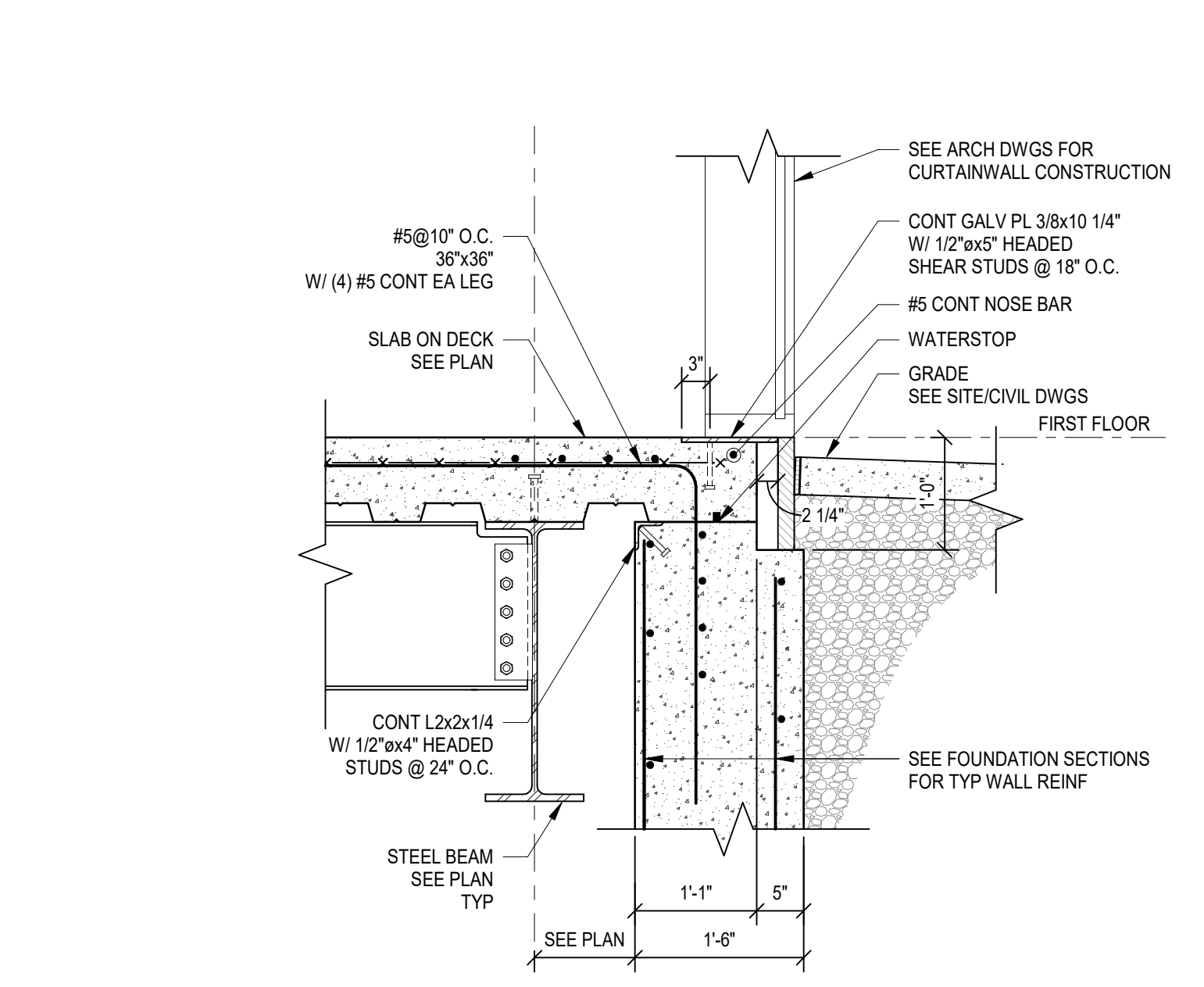
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S-307 3/4" = 1'-0"



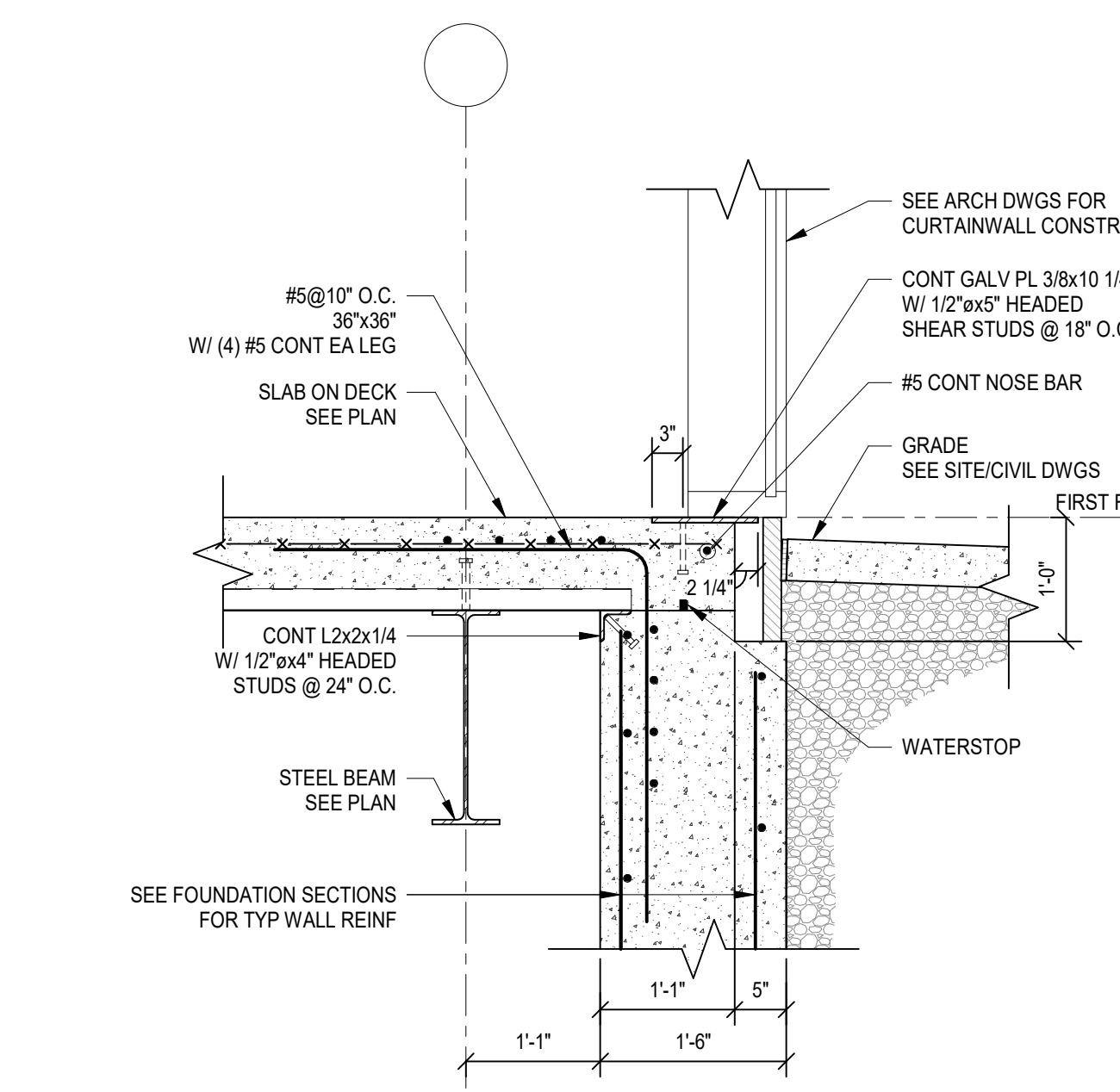
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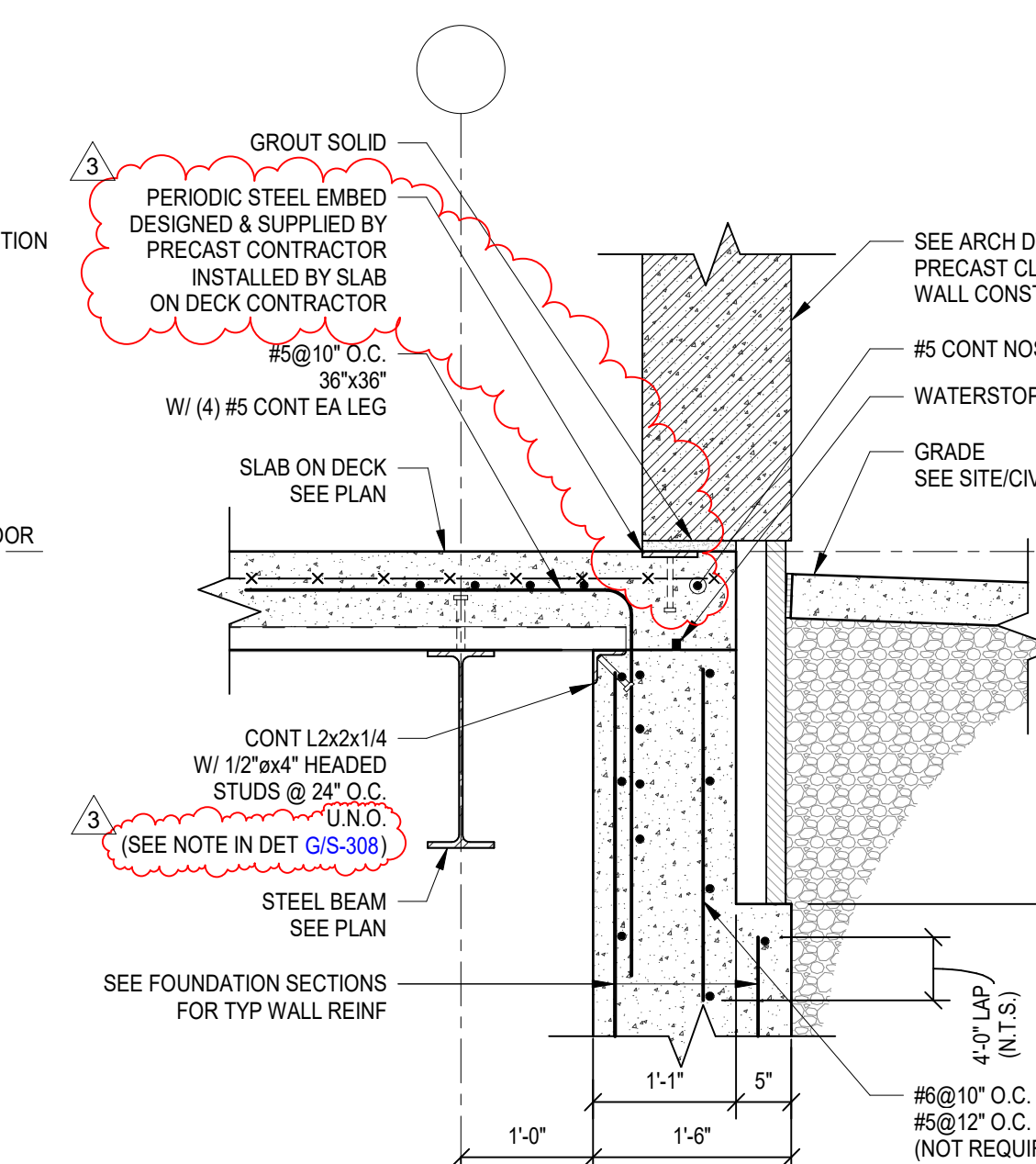
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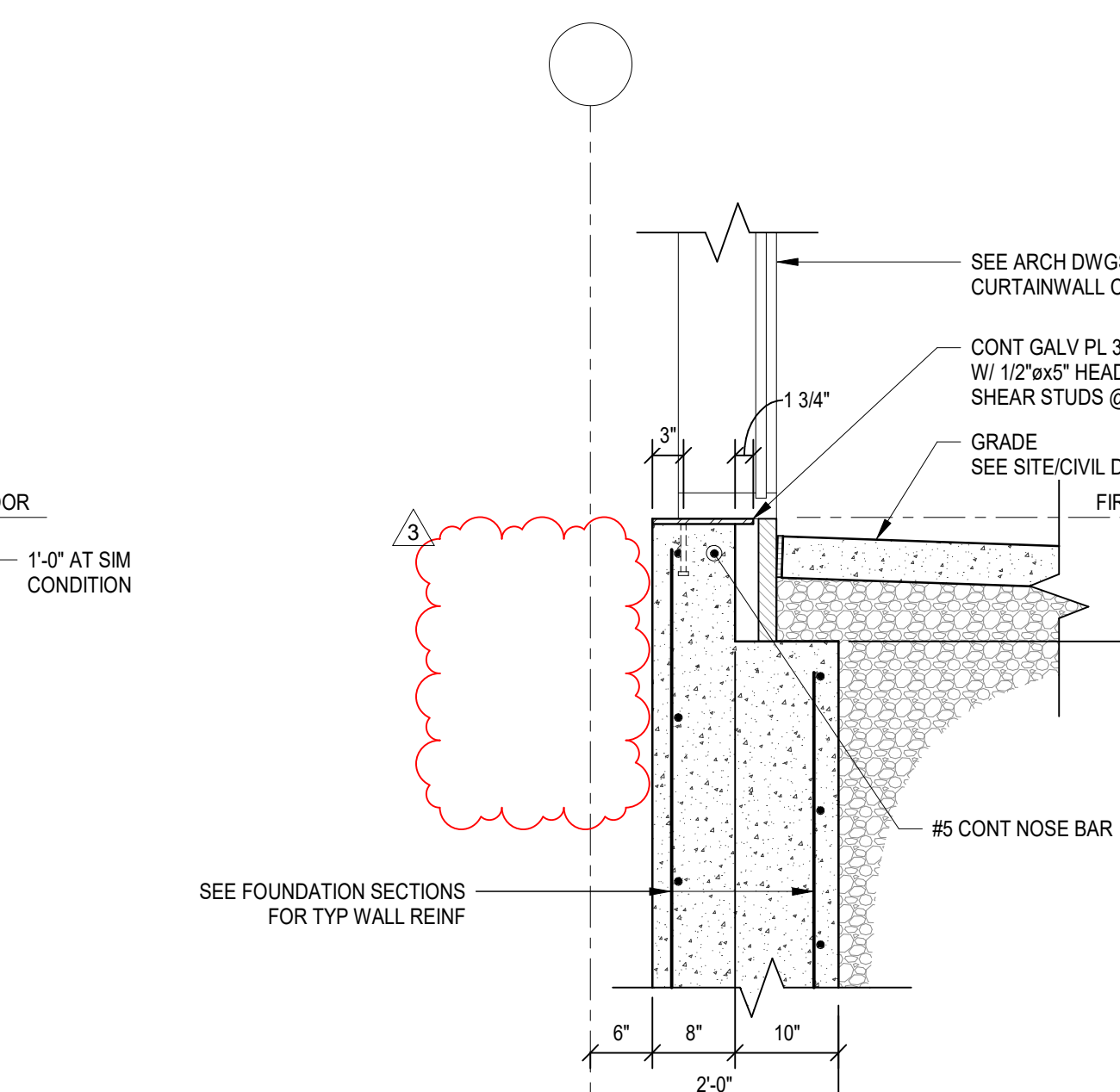
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S-307 3/4" = 1'-0"



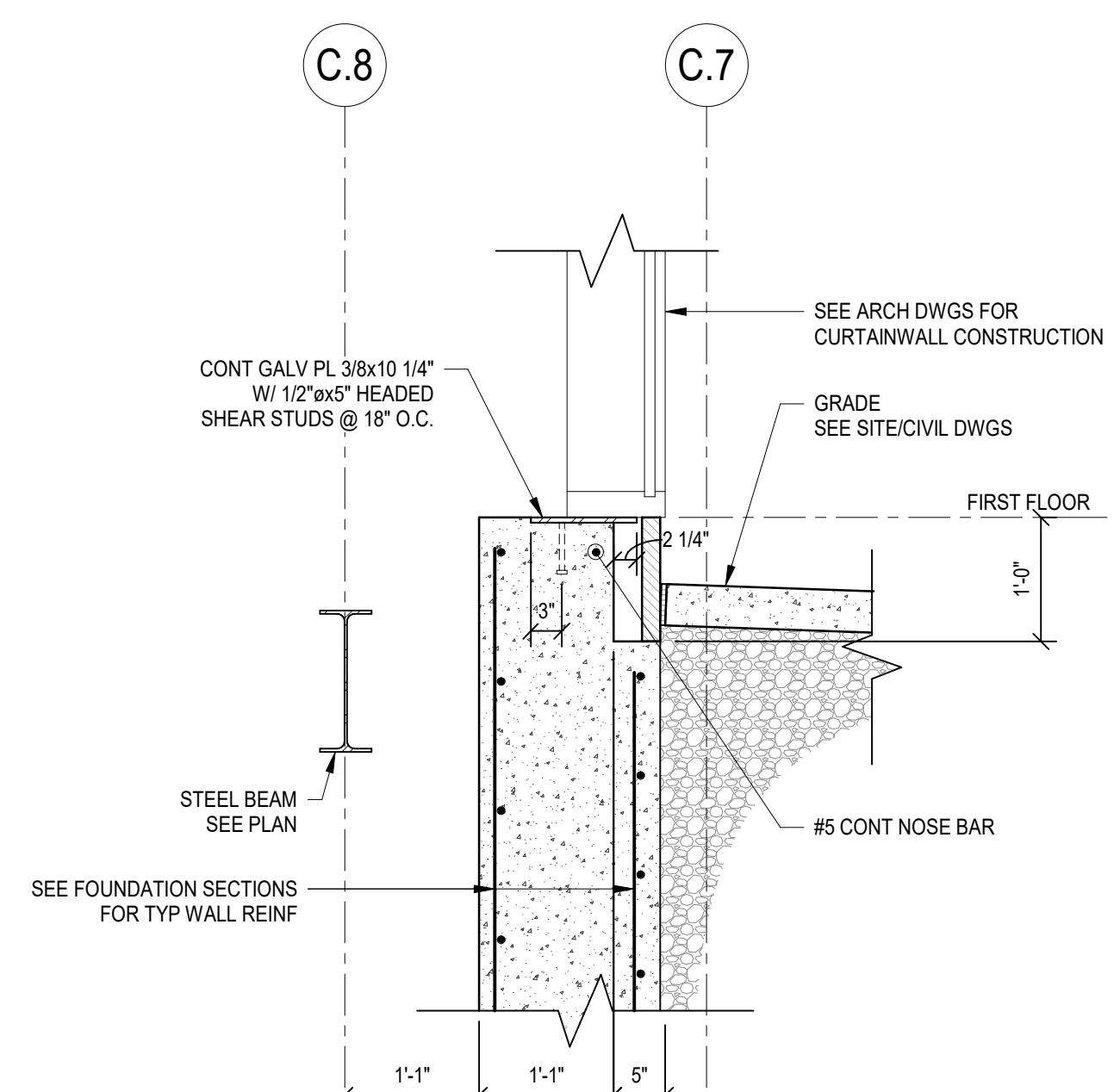
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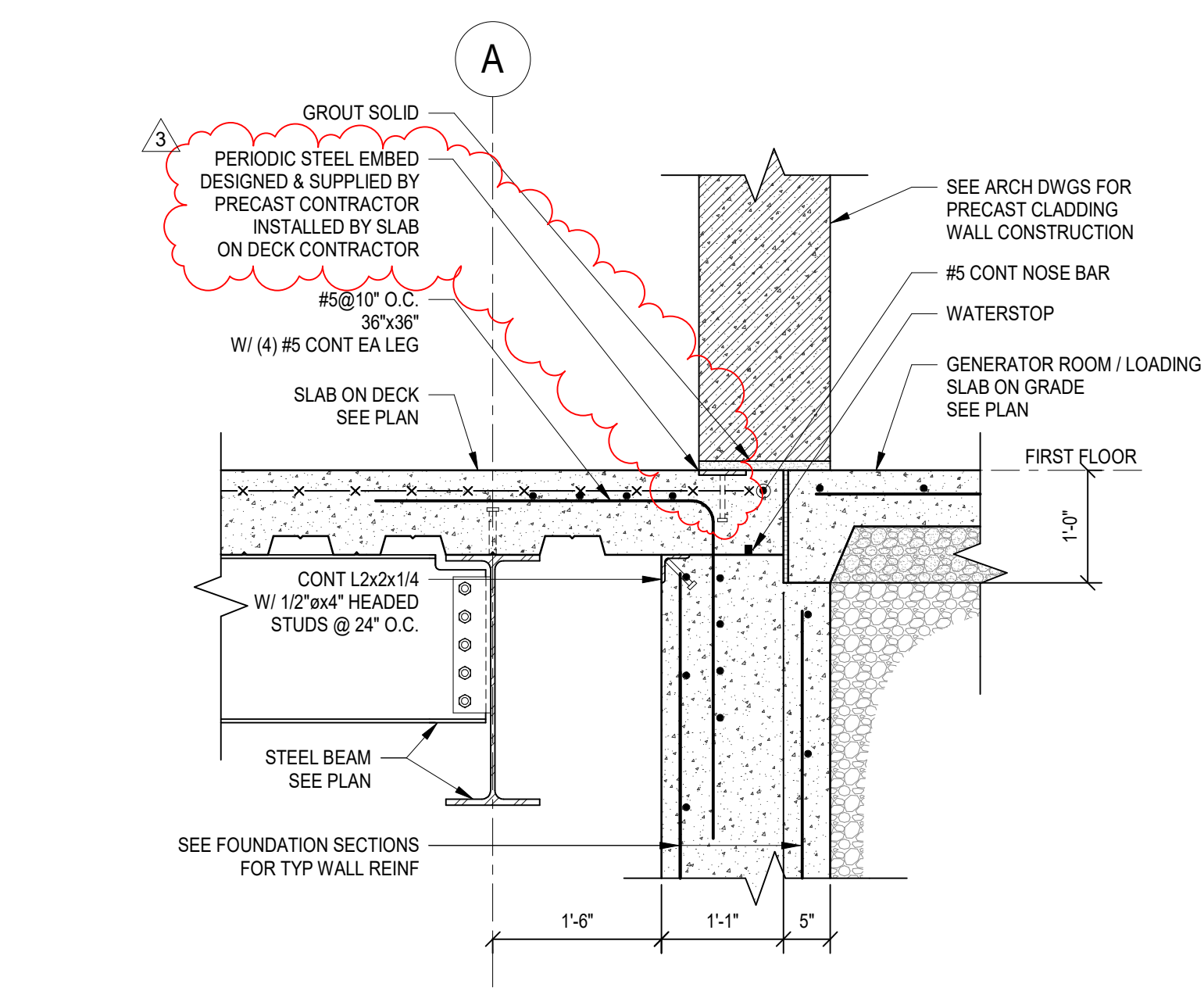
SECTION L  
S-307 3/4" = 1'-0"



SECTION M  
S-307 3/4" = 1'-0"



SECTION N  
S-307 3/4" = 1'-0"



SECTION P  
S-307 3/4" = 1'-0"

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BP-02

**MICHAEL D. RANKIN MD HEALTH  
EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



STRUCTURAL	
PROJECT	202170
DATE	03.18.24
REVISIONS	
No.	Description
3	BP-02 - Add 3

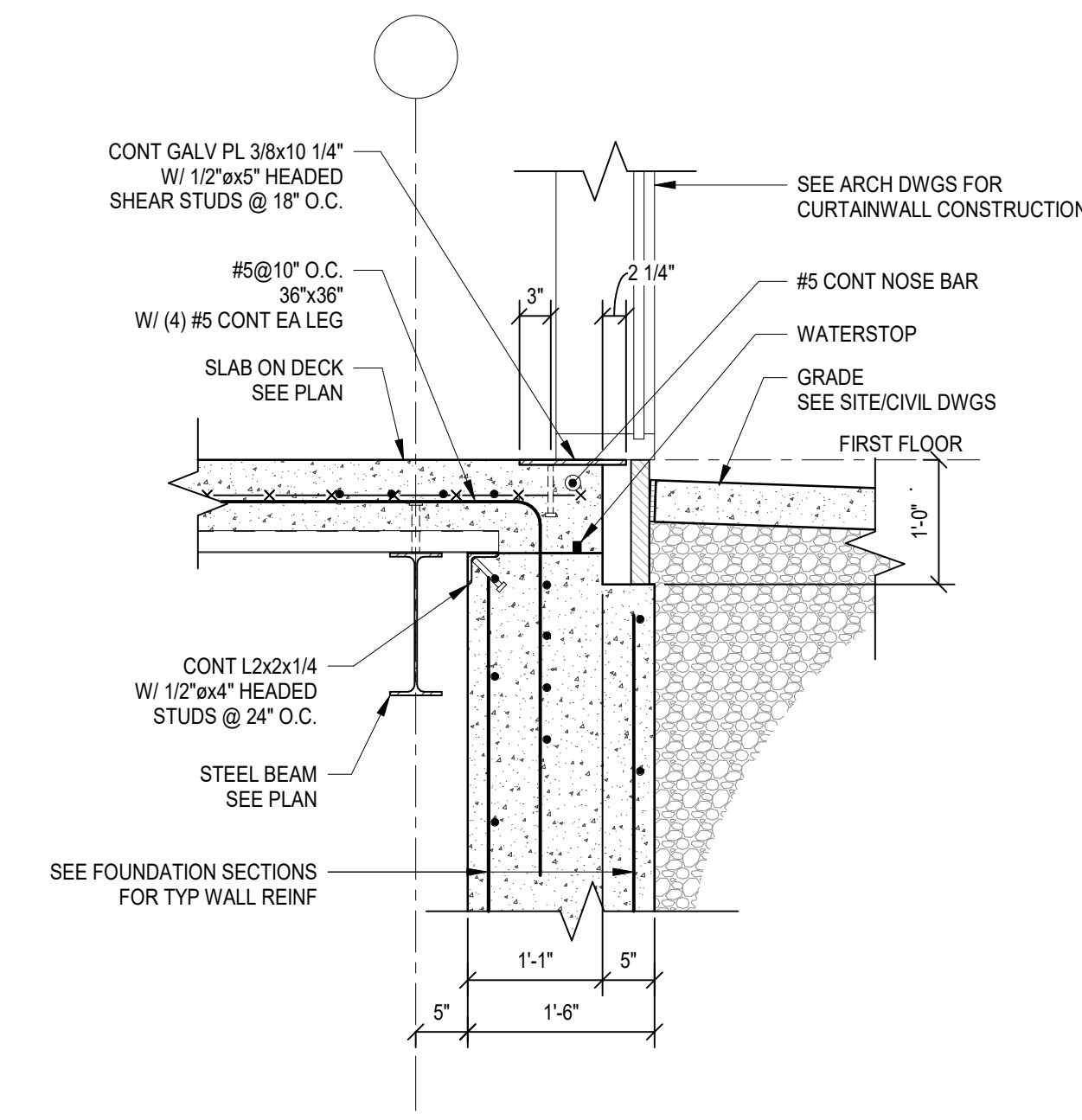
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES, ON BEHALF OF ANY OTHER FORMATS, IN WHOLE OR IN PART, FOR ANY PURPOSE OTHER THAN FOR THE PROJECT. THE CLIENT AGREES NOT TO TRANSFER THESE ELECTRONIC FILES TO OTHERS WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.



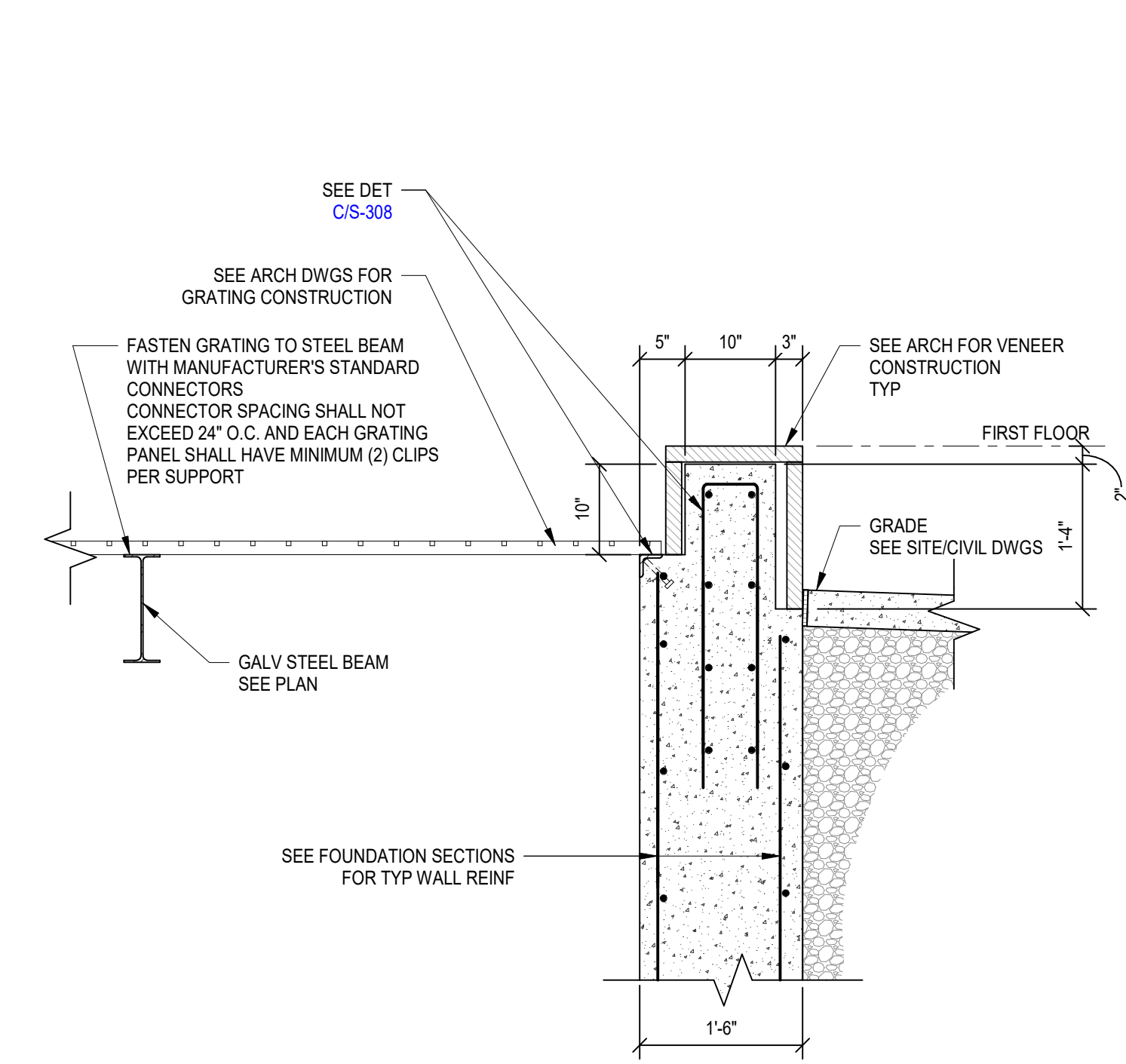
**FRAMING SECTIONS**

**S-307**

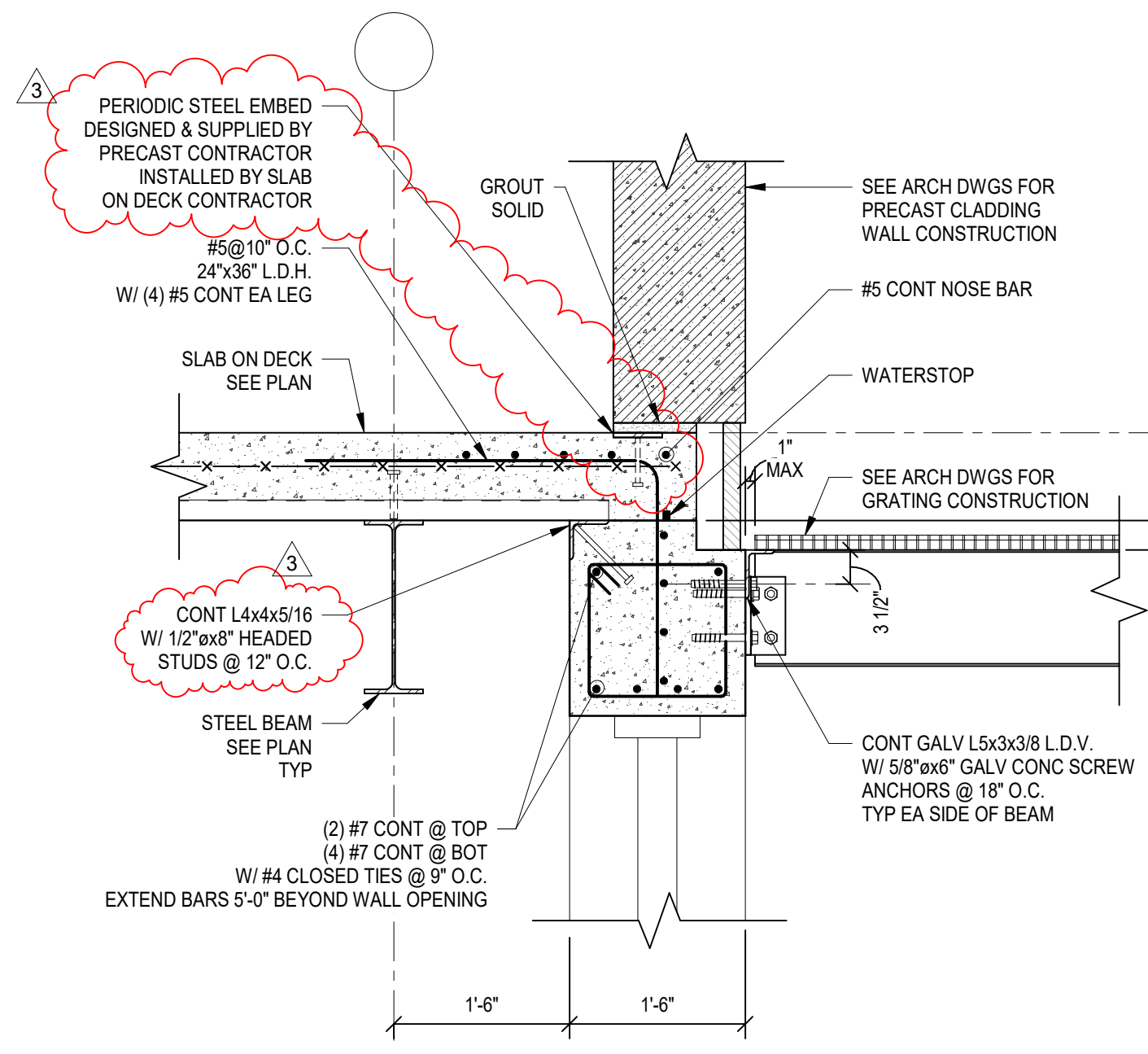
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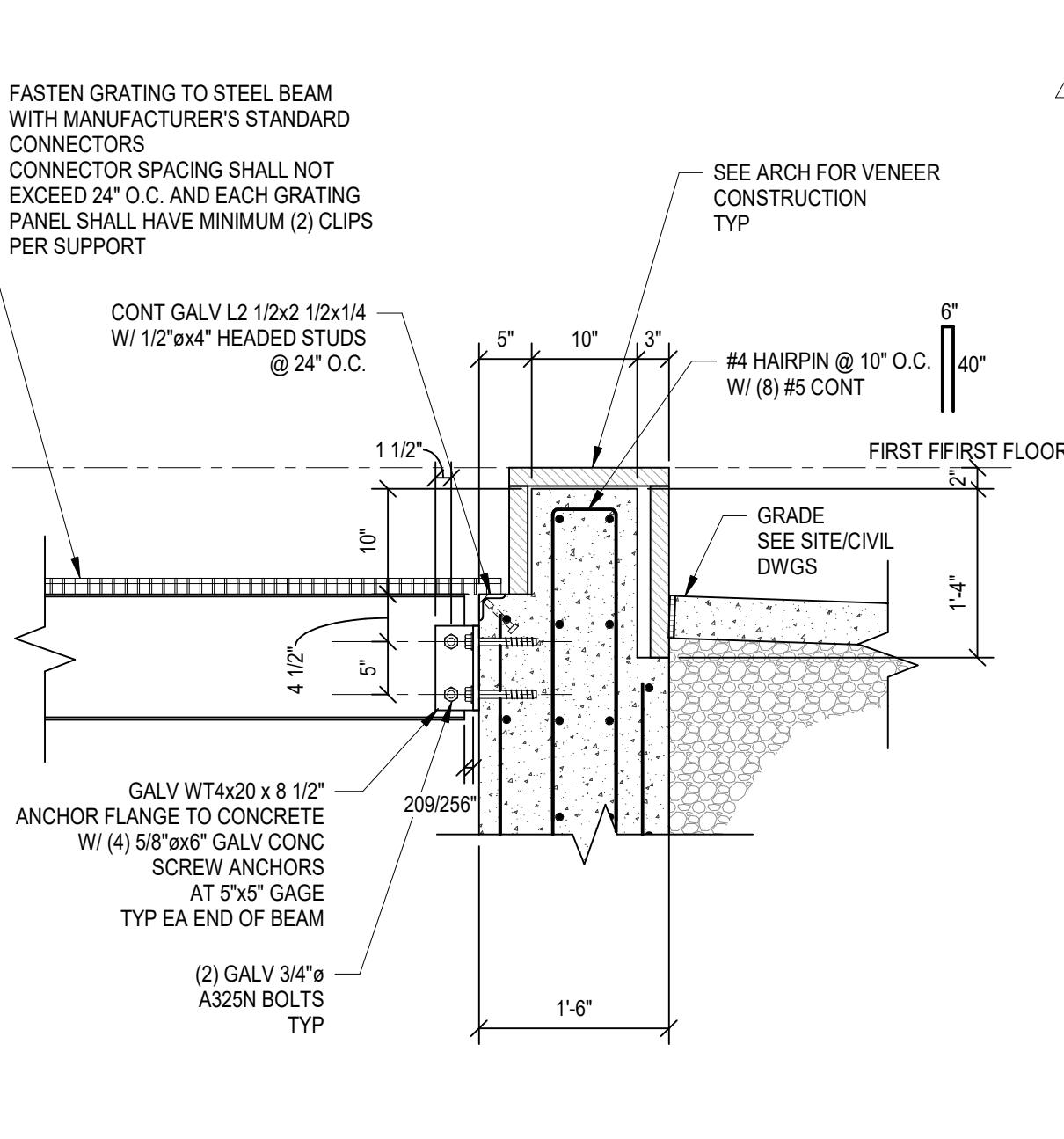
**A** SECTION  
S-308 3/4" = 1'-0"



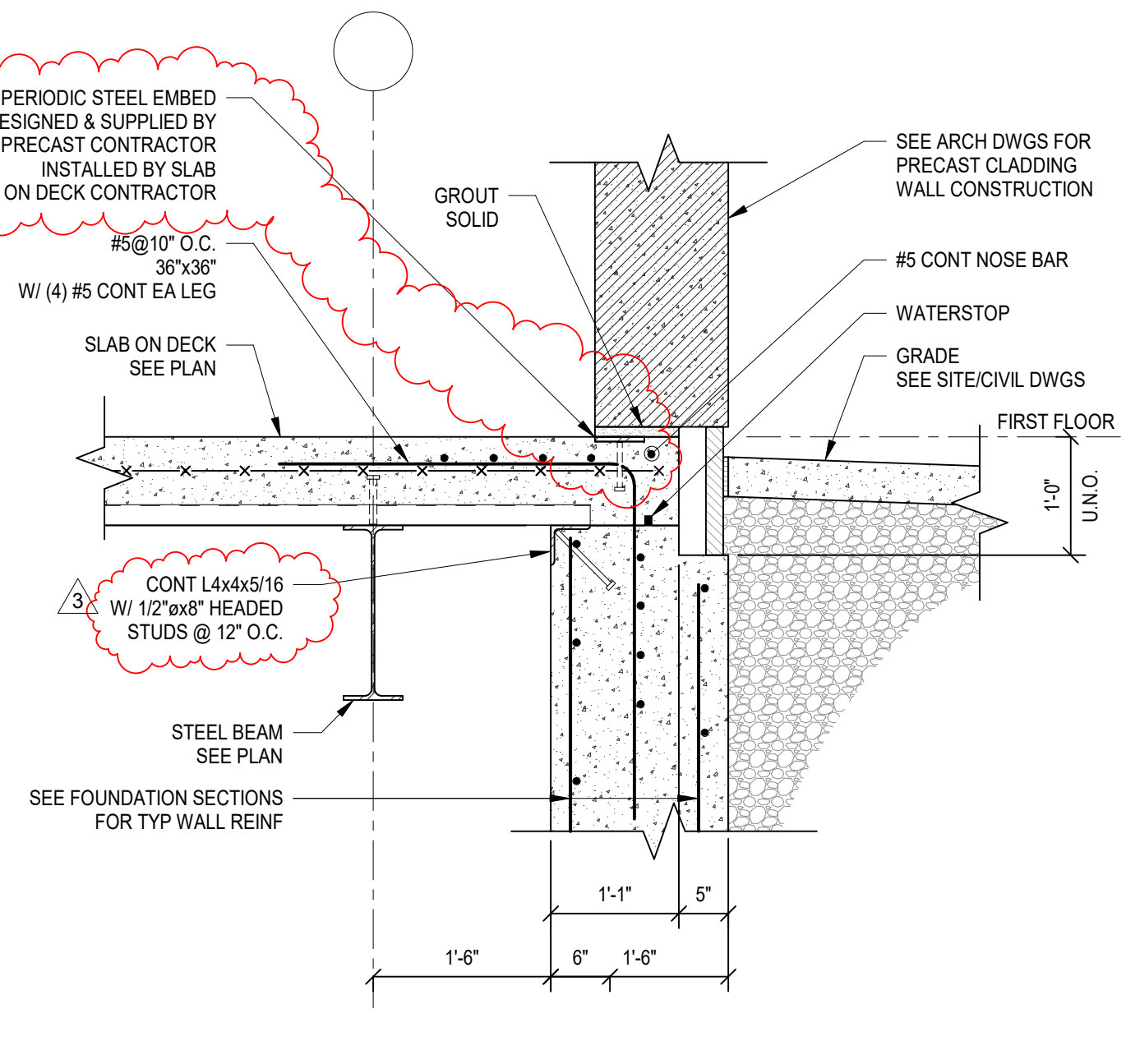
**B** SECTION  
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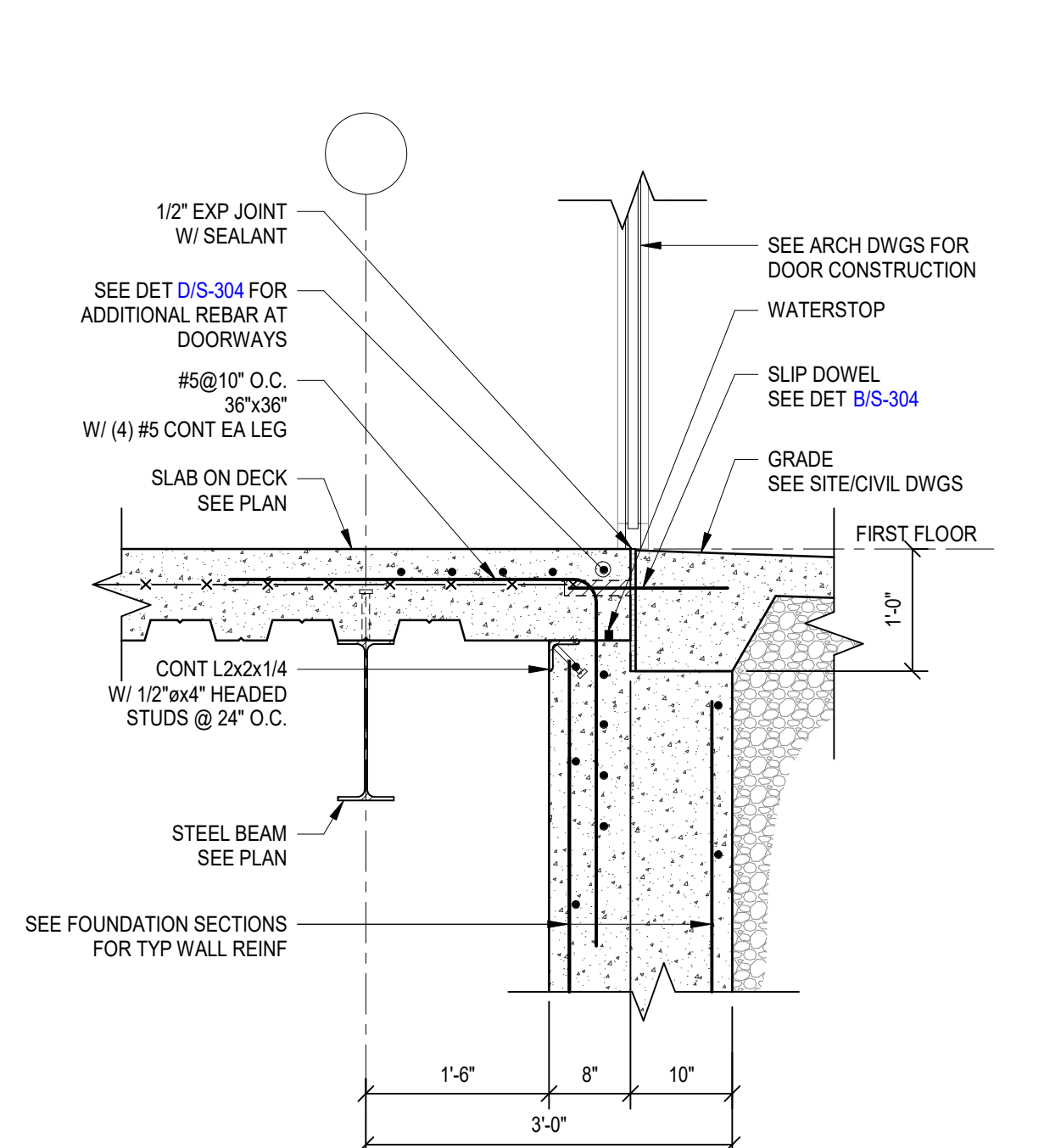
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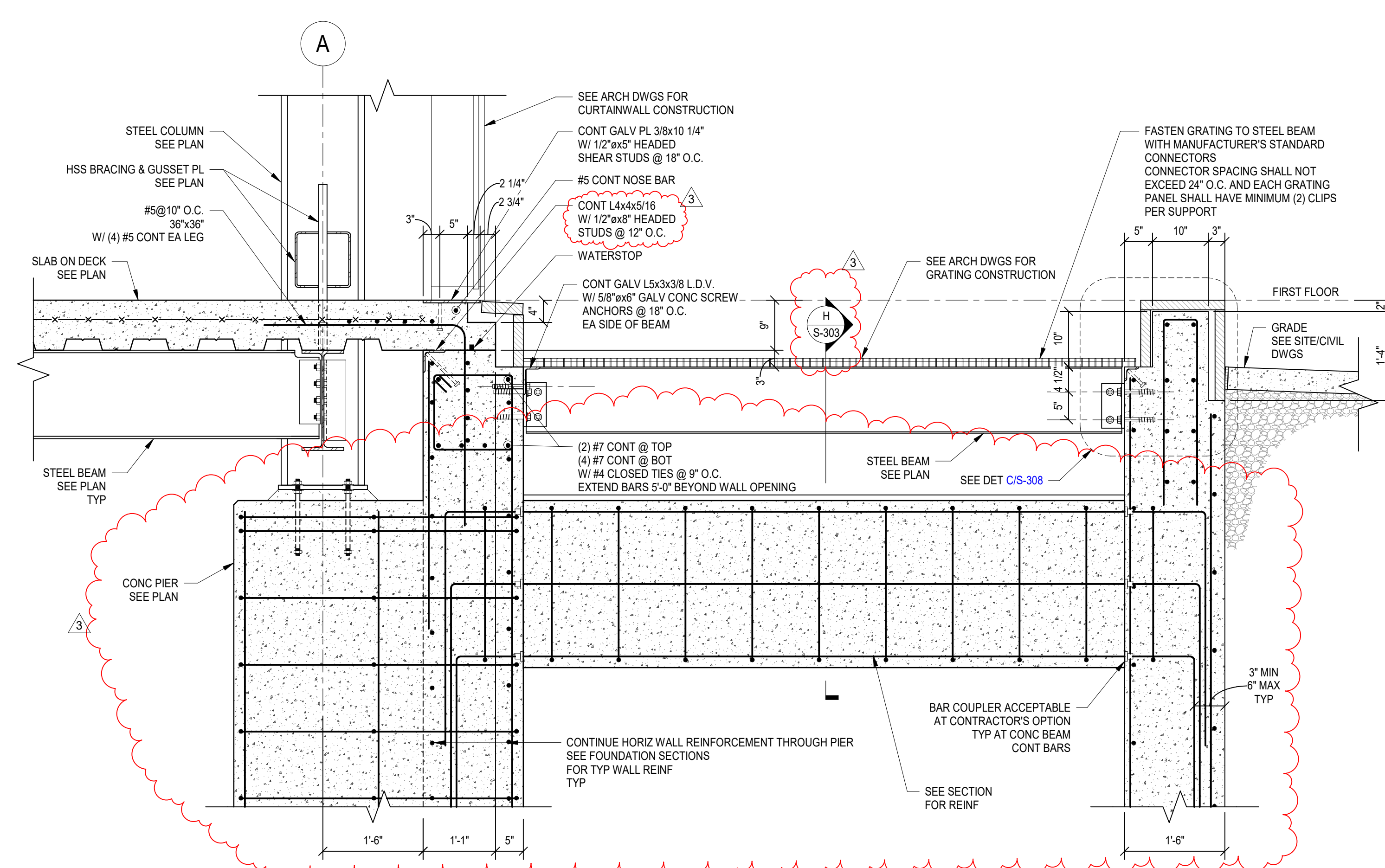
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S-308 3/4" = 1'-0"



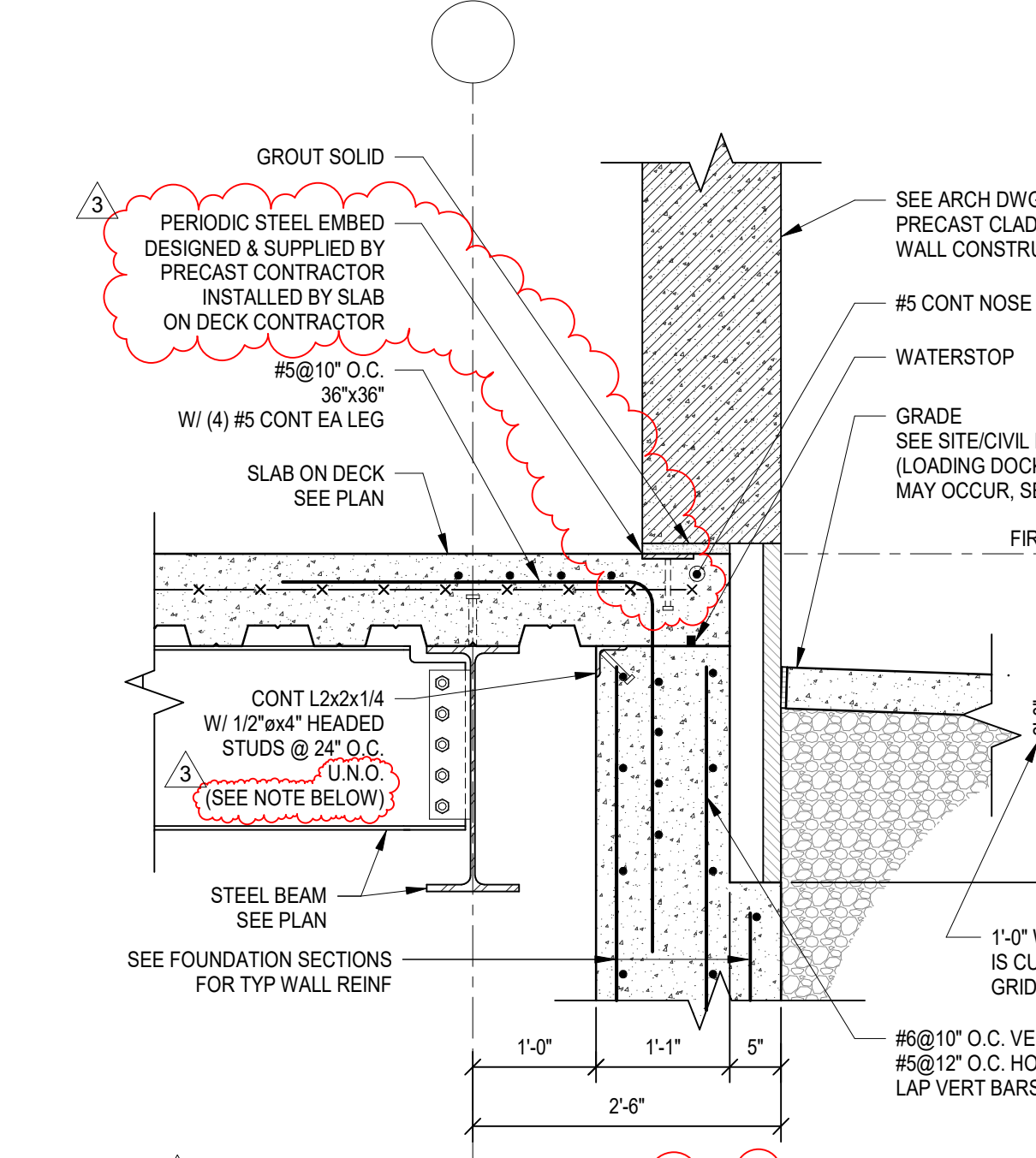
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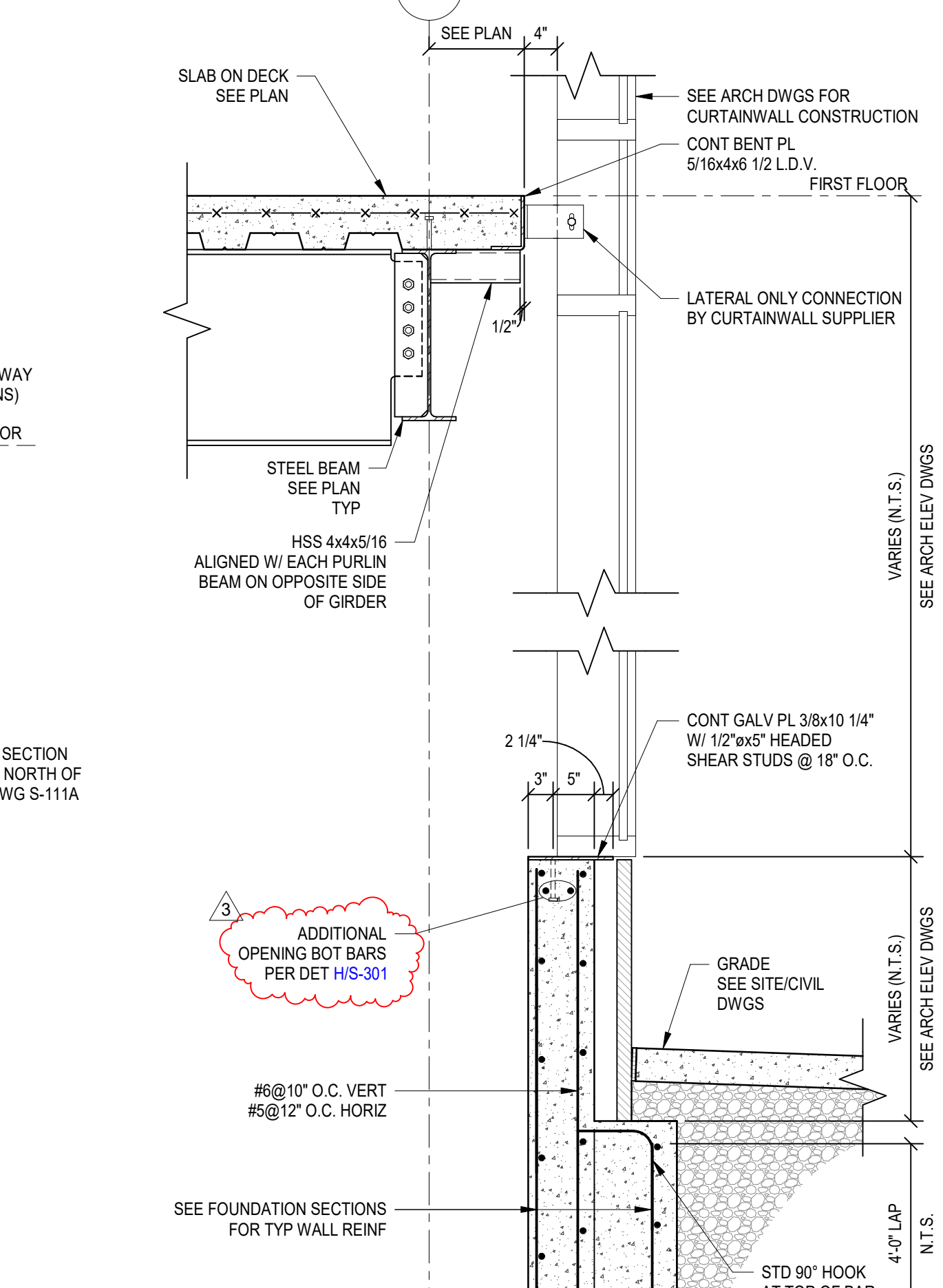
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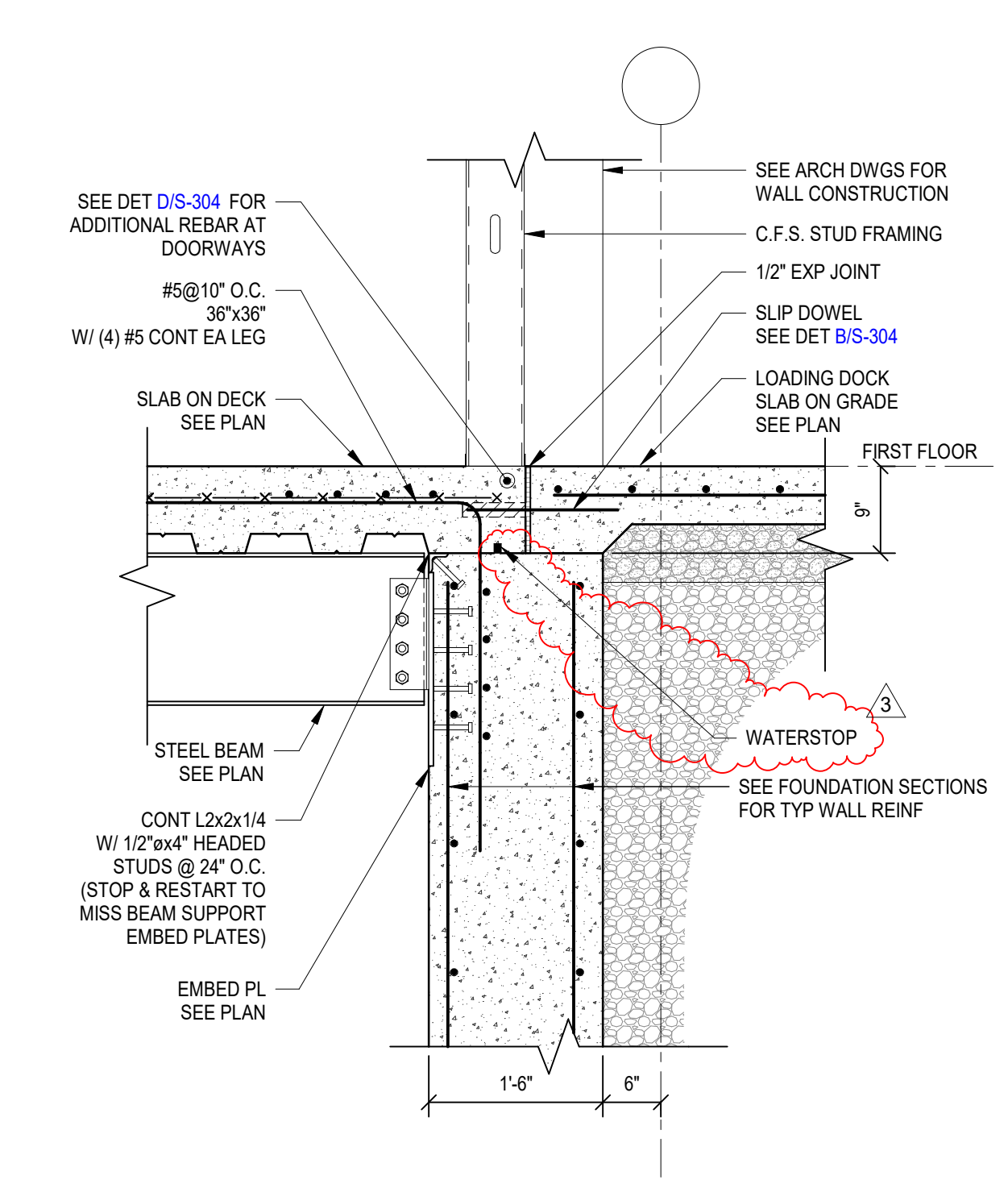
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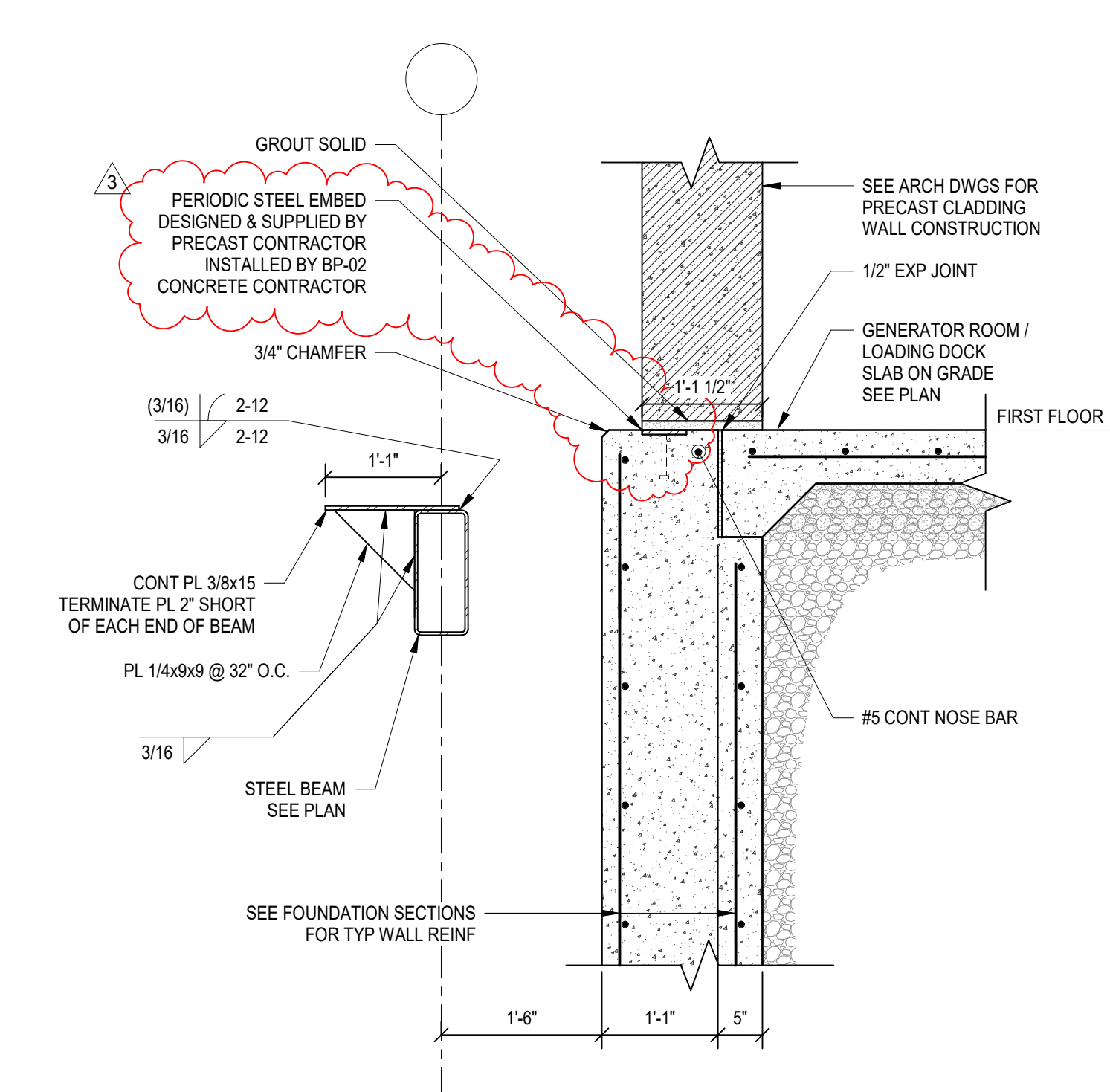
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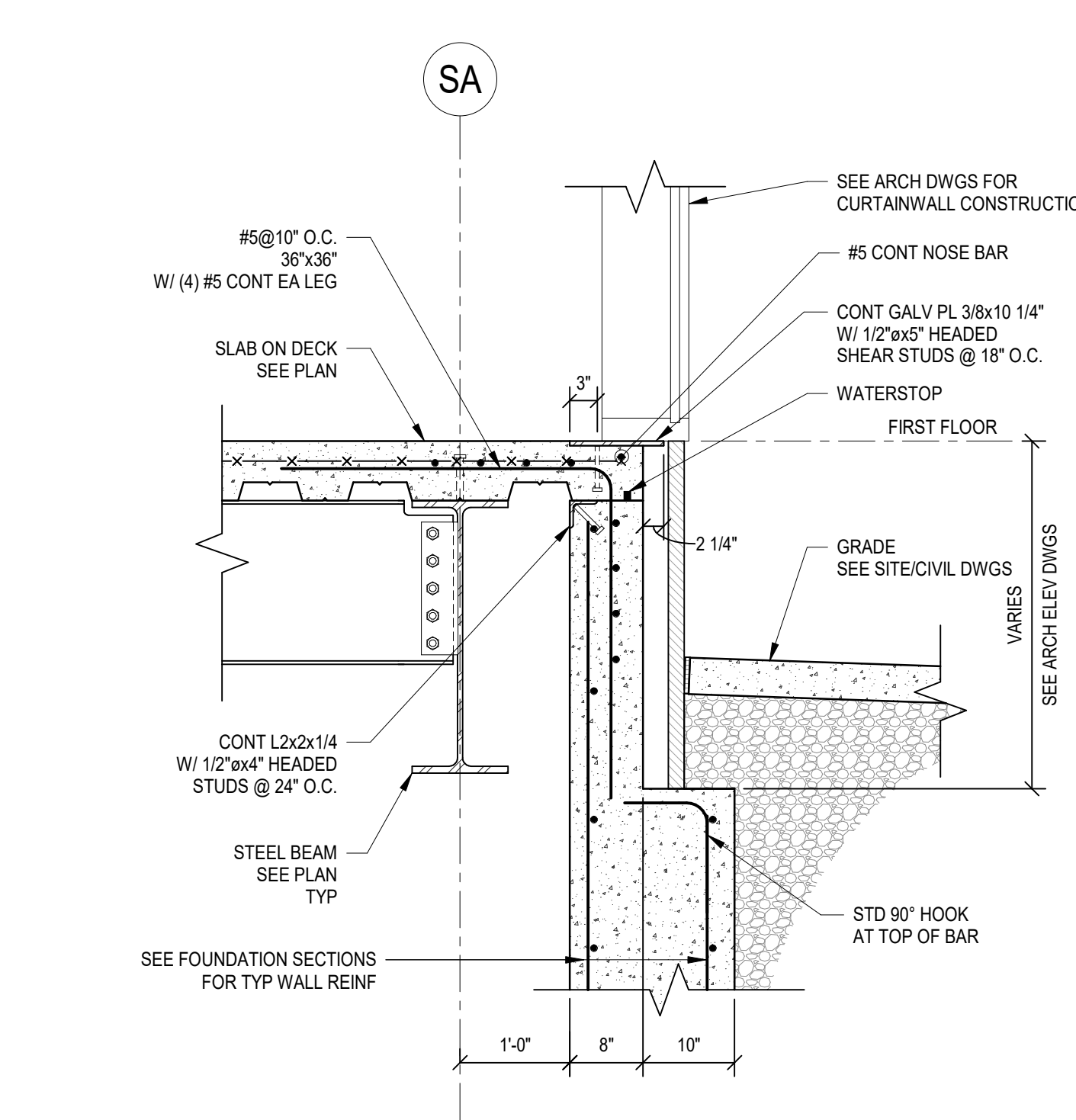
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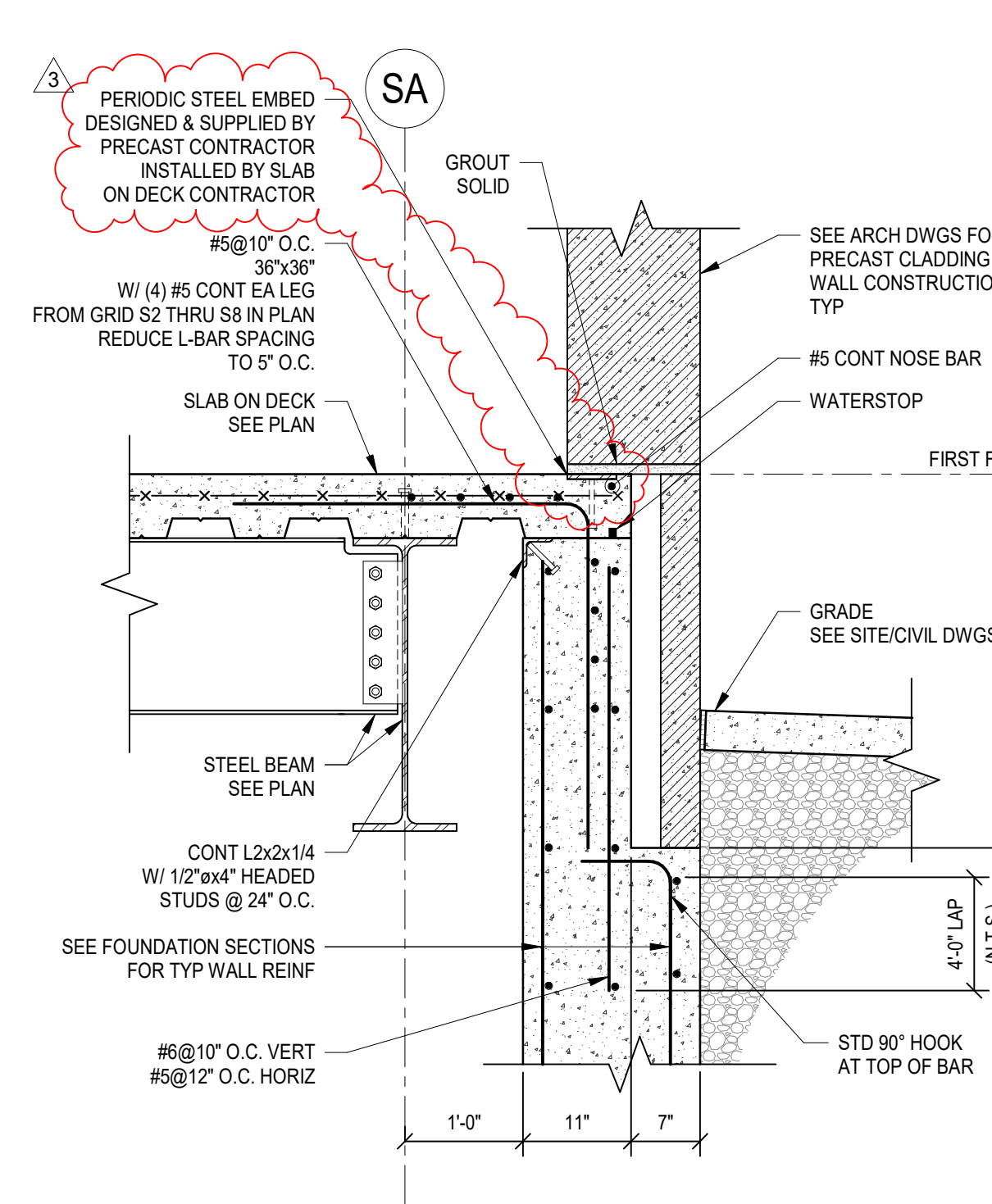
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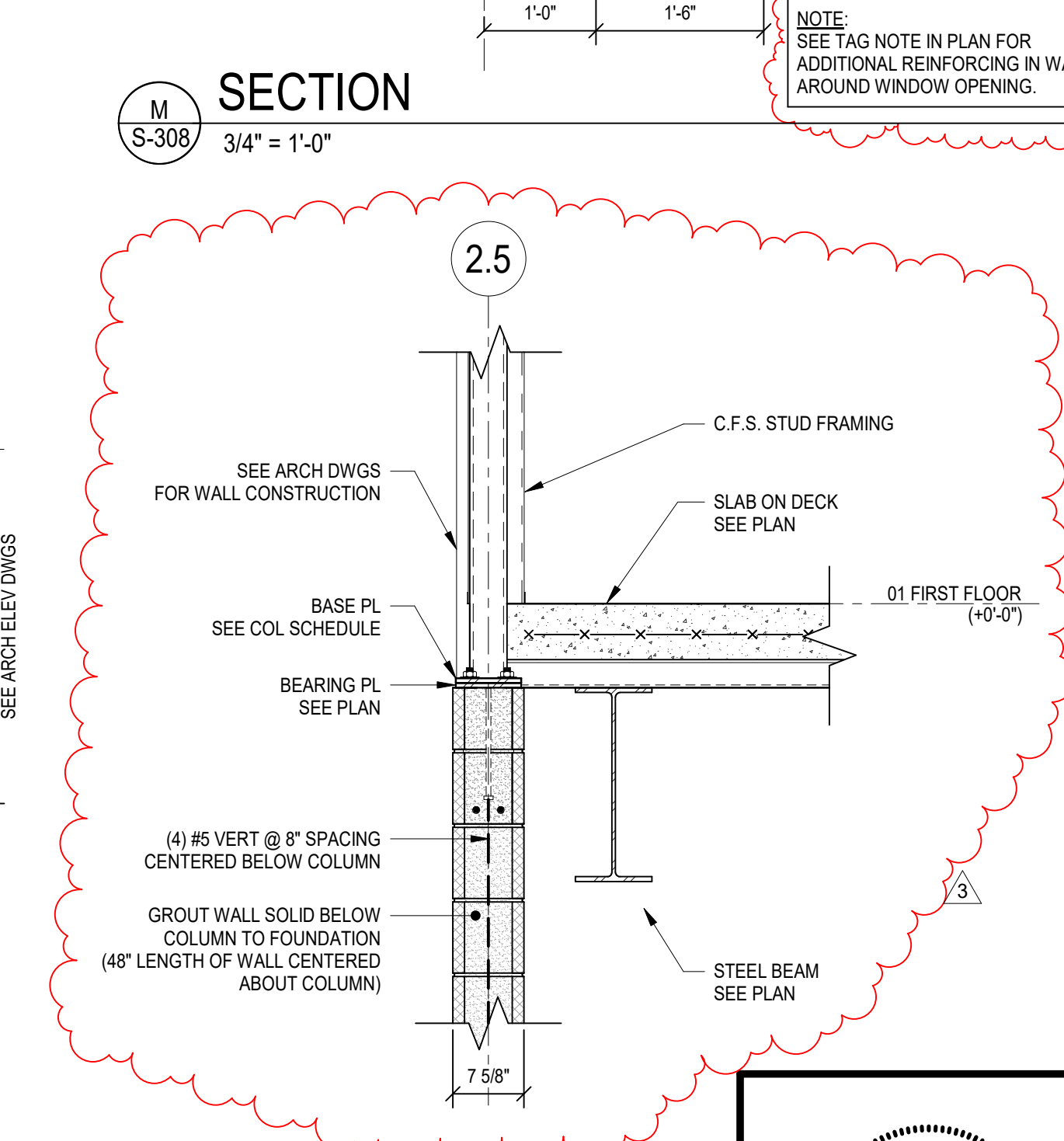
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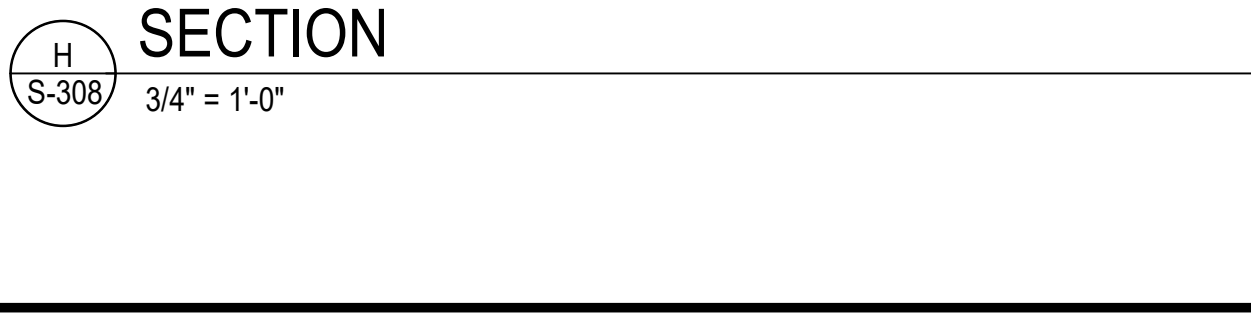
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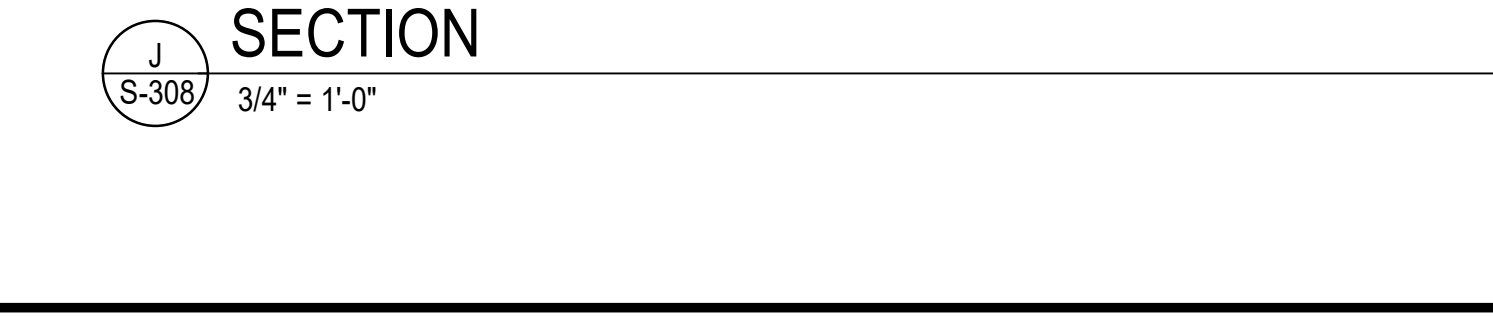
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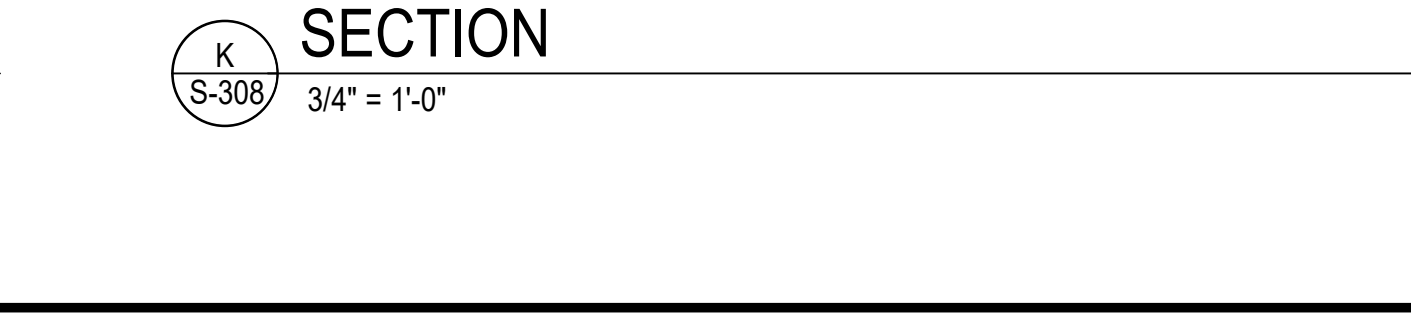
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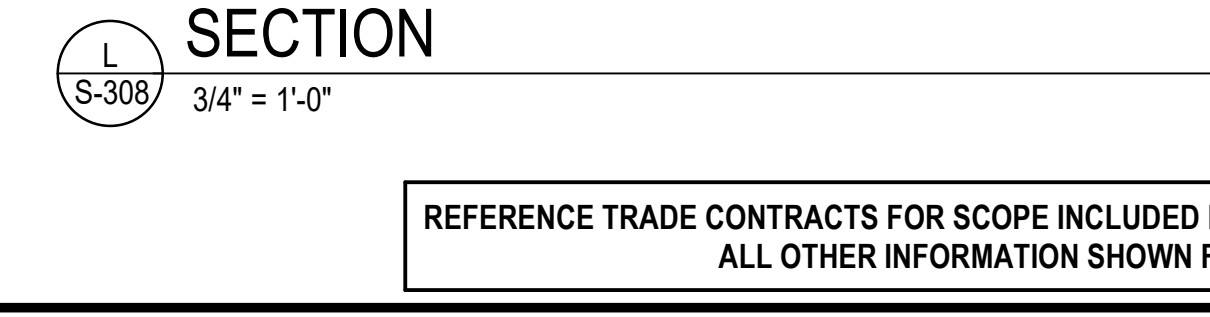
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S-308 3/4" = 1'-0"



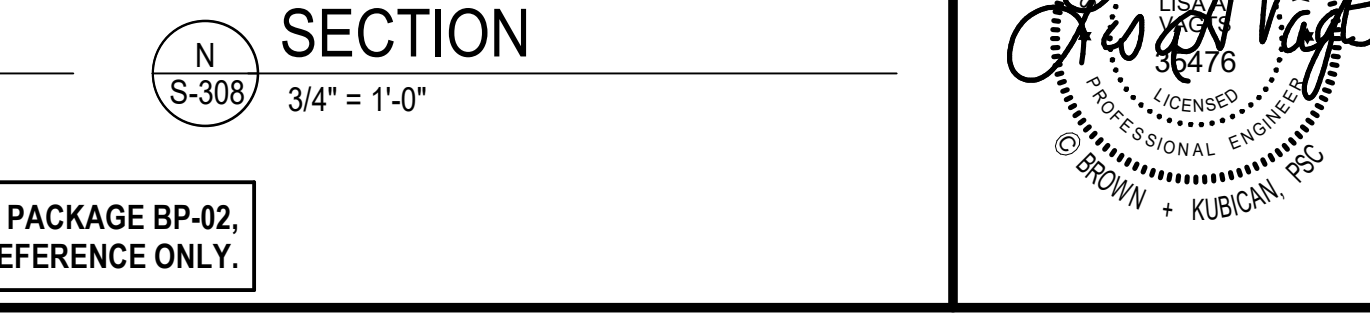
**P** SECTION  
S-308 3/4" = 1'-0"



**Q** SECTION  
S-308 3/4" = 1'-0"



**R** SECTION  
S-308 3/4" = 1'-0"



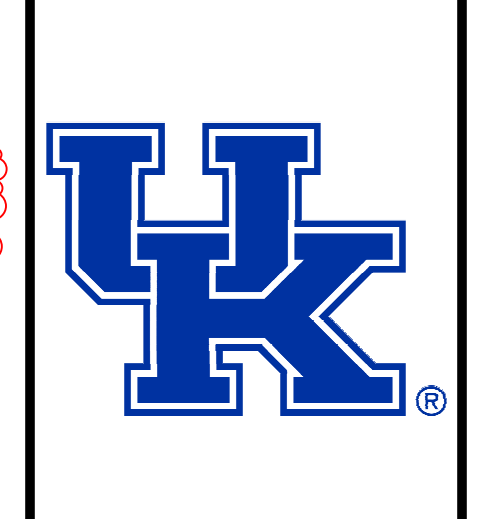
**S** SECTION  
S-308 3/4" = 1'-0"



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**BP-02**  
**MICHAEL D. RANKIN MD HEALTH**  
**EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY - BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



STRUCTURAL PROJECT 202170 DATE 03.18.24

REVISIONS	
No.	Description
3	BP-02 - Add 3

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**FRAMING SECTIONS**  
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MECHANICAL GENERAL NOTES

- A COORDINATE THE LOCATION OF DRAINS, THERMOSTATS, GAS OUTLETS, ETC. WITH ALL CASEWORK EQUIPMENT, MECHANICAL ROOM EQUIPMENT, ETC. PRIOR TO COMMENCING INSTALLATION WORK NOT SO COORDINATED SHALL BE REMOVED AND PROPERLY INSTALLED AT THE EXPENSE OF THE CONTRACTOR.
B THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS TO ENSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE...
C WHERE WORK IS REQUIRED ABOVE EXISTING LAY-IN PLASTER OR GYPSUM BOARD CEILINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION (OR REPLACEMENT, IF DAMAGED) OF ALL CEILING OR TILE AND GRID MEMBERS NECESSARY TO PERFORM HIS WORK...
D ALL NEW WORK SHALL BE HUNG FROM STRUCTURE, NOT FROM THE WORK OF OTHER TRADES, WHETHER EXISTING OR NEW.
E COORDINATE ALL WORK WITH PROJECT PHASING REQUIREMENTS.
F PATCH, REPAIR AND PAINT OR PROVIDE WALL COVERING FOR (TO OWNERS' STANDARDS) EXISTING WALLS, CEILINGS, ETC., THAT ARE TO REMAIN IN DAMAGED DURING CONSTRUCTION. REPAIRS SHALL MATCH ADJACENT SURFACES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
G OBSERVE ALL APPLICABLE CODES, RULES AND REGULATIONS THAT MAY APPLY TO THE WORK UNDER THIS CONTRACT. (CITY, COUNTY, LOCAL, FEDERAL, MUNICIPALITY, UTILITY COMPANY, COMMONWEALTH OF KENTUCKY, ETC.)
H CONTRACTOR SHALL BE AWARE OF UNSEEN PLUMBING, HVAC AND ELECTRICAL WORK DURING DEMOLITION. IF ITEMS ARE UNCOVERED DURING DEMOLITION THEN FIELD VERIFY THE USE OF THE ITEMS AND PLAN AN ALTERNATE ROUTE TO RUN THESE ITEMS. THEN CONTACT THE ENGINEERS TO REVIEW THE ROUTING.
I IF AREA OF CONSTRUCTION HAS A POST TENSION FLOOR SLAB CONTRACTOR SHALL USE ULTRA SOLUTION OR OTHER APPROVED METHODS TO SURVEY THE EXISTING FLOOR STRUCTURE BEFORE MAKING ANY AND ALL FLOOR PENETRATIONS.
J WHERE FIRE PROOFING IS SPRAYED ON EXISTING STRUCTURE ALL EXISTING CONDUITS, WATER, HYDROIC, STEAM, CHILLED WATER, FIRE PROTECTION LINES, MED GAS, ETC. SHALL BE LOWERED TO BE BELOW FULL THICKNESS OF FIRE PROOFING WITH NO INTERFERENCE.
K ALL PENETRATIONS OF FIRE AND SMOKE RATED ASSEMBLIES SHALL BE APPROPRIATELY FIRE STOPPED PER AN APPROVED U.L. LISTED STANDARD. CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO INSULATED PIPING PENETRATIONS.
L ALL WORK REQUIRING DOWNTIME OF ANY AREA IN THE BUILDING SHALL BE SCHEDULED 2 WEEKS IN ADVANCE, AND SHALL COMPLY WITH INTERIM LIFE SAFETY MEASURES.
M ALL DUCTWORK, PIPING, CONDUITS, ETC. IN ROOMS WITH CEILINGS SHALL BE ABOVE CEILING EXCEPT AS NOTED.
N INSTALL AIR VENTS AT HIGH POINTS IN PIPING AND DRAINS IN LOW POINTS. USE CARE TO AVOID FREEZING OF EXTERIOR VENTS.
O LOCATIONS OF PIPING, DUCTS AND EQUIPMENT ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. DO NOT SCALE THE DRAWINGS.
P ALL OFFSETS IN DUCTS AND PIPING ARE NOT NECESSARILY SHOWN. PROVIDE ADDITIONAL OFFSETS WHERE NECESSARY.
Q COORDINATE ALL HVAC WORK WITH ELECTRICAL, PLUMBING AND OTHER TRADES TO AVOID INTERFERENCE WITH PIPING, DUCTS, CONDUIT AND OTHER EQUIPMENT.
R INSTALL ALL PIPING, DUCTWORK AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN CONTRACT DOCUMENTS, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION. PROVIDE RECOMMENDED ACCESS AND SERVICE CLEARANCES FOR ALL EQUIPMENT.
S SEAL AIRTIGHT AROUND ALL DUCTS AND PIPING PENETRATIONS THROUGH WALLS, FLOORS AND ROOF. PROVIDE FIRE STOPPING IN FIRE PARTITION.
T SEAL ALL NEW DUCTWORK JOINTS WITH UNITED MCGILL, IRONGRIP 601 OR EQUAL WATER BASED SEALANT.
U ALL MOTOR DRIVEN EQUIPMENT SHALL BE INSTALLED WITH FLEXIBLE CONNECTIONS TO DUCTWORK, PIPING, ETC., UNLESS OTHERWISE NOTED.
V THE CONTRACTOR SHALL RELOCATE OR AVOID ANY EXISTING EQUIPMENT APURTANCES, ETC., THAT CONFLICT WITH NEW WORK.
W WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEERS BEFORE INSTALLATION. REFER ALSO TO ARCHITECT'S FINAL INTERIOR AND EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS AND OTHER DETAIL OF THESE DOCUMENTS.
X DOUBLE WIDTH TURNING VANES SHALL BE INSTALLED IN ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK ELBOWS. TURNING VANES NOT REQUIRED FOR KITCHEN EXHAUSTS.
Y ANY VIBRATING, OSCILLATING OR OTHER NOISE OR MOTION PRODUCING EQUIPMENT SHALL BE ISOLATED FROM SURROUNDING SYSTEMS IN AN APPROVED MANNER. NOISY OR STRUCTURALLY DAMAGING INSTALLATIONS SHALL BE SATISFACTORILY REPLACED OR REPAIRED AT THE INSTALLING CONTRACTOR'S EXPENSE. THE FINAL DECISION ON THE SUITABILITY OF A PARTICULAR INSTALLATION'S ACCEPTABILITY SHALL BE THAT OF THE ENGINEER.
Z DEVIATIONS IN SIZE, CAPACITIES, FIT, FINISH, ETC. FOR EQUIPMENT FROM THAT USED AS BASIS OF DESIGN SHALL BE THE RESPONSIBILITY OF THE PURCHASER OF THAT EQUIPMENT. ANY PROVISIONS REQUIRED TO ACCOMMODATE A DEVIATION, WHETHER APPROVED BY THE ENGINEERS OR NOT, SHALL BE THE RESPONSIBILITY OF THE PURCHASER.
AA VALVES, BALANCING DAMPERS OR ANY MECHANICAL/ELECTRICAL ITEM REQUIRING ACCESS SHALL NOT BE LOCATED ABOVE A HARD CEILING. IF THIS IS NOT POSSIBLE, THEN AN APPROPRIATELY SIZED ACCESS DOOR SHALL BE PLACED UNDER THE ITEM TO ALLOW EASY MAINTENANCE AND ADJUSTMENT. ADDITIONALLY ALL SUCH ITEMS SHALL NOT BE LOCATED AN UNREASONABLE DISTANCE ABOVE THE CEILING. IN GENERAL, ALL SUCH ITEMS UNLESS INDICATED OTHERWISE SHALL BE MOUNTED SIX TO TWELVE INCHES ABOVE THE CEILING. IF IN DOUBT, CONTACT ENGINEER PRIOR TO INSTALLING.
AB ALL MANHOLES, VAULTS AND SIMILAR UNDERGROUND STRUCTURES SHALL HAVE THE TOP ELEVATION SET FLUSH WITH FINISHED GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
AC PIPING SHALL NOT BE LOCATED UNDER A FOOTER OR IN THE ZONE OF INFLUENCE. THE ZONE OF INFLUENCE IS THE AREA UNDER THE FOOTER WITHIN A 45 DEGREE ANGLE PROJECTING DOWN FROM THE BOTTOM EDGE OF THE FOOTER OF ALL SIDES OF THE FOOTER. ADDITIONALLY, GREASE TRAPS, MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES SHALL BE HELD AWAY FROM BUILDING WALLS FAR ENOUGH TO BE OUTSIDE OF THE ZONE OF INFLUENCE.
AD WORK IN CONFINED AREAS SHALL BE IN ACCORDANCE WITH THE OWNER'S SAFETY POLICY REQUIREMENTS.

MECHANICAL DEMOLITION NOTES

- A THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR AREAS IN WHICH THE CEILING IS REMAINING. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE EXISTING CEILING AS REQUIRED AND REINSTALLATION. TEMPORARILY SUPPORT LIGHTS, DIFFUSERS, CEILING ETC. REPLACE BROKEN CEILING TILES WITH NEW AT NO ADDITIONAL COST TO OWNER. FIELD VERIFY EXACT REQUIREMENTS.
B DURING SPRINKLER SYSTEM OUTAGES THE CONTRACTORS SHALL PROVIDE FIRE WATCH OF AREAS WITH OUTAGES.
C ALL WALLS AND FLOOR SLABS SHALL BE REPAIRED TO MATCH EXISTING AND TO A LIKE NEW CONDITION. ALL RATED WALLS AND FLOOR SLABS SHALL BE PATCHED AND REPAIRED TO MAINTAIN RATING.
D ALL EXISTING BUILDING FINISHES SHALL BE PROTECTED DURING THE DEMOLITION PHASE.
E HEAVY DASHED LINES INDICATE ITEMS FOR REMOVAL (UON) AND LIGHT SOLID LINES INDICATE EXISTING ITEMS TO REMAIN.
F COORDINATE DISPOSAL OF ALL FIXTURES, DEVICES, ETC. (INDICATED FOR DEMOLITION) WITH THE OWNER.
G ALL OUTGAGES SHALL BE SCHEDULED THROUGH THE UK CPMD PROJECT REPRESENTATIVE FOR PROPER COORDINATION. A REQUEST FOR AN OUTAGE SHALL BE SUBMITTED IN WRITING A MINIMUM OF TWO WEEKS IN ADVANCE.
H ALL DUCTWORK, PIPING, CONDUIT, ETC. SHALL BE INSTALLED A MINIMUM OF 4" ABOVE THE TOP OF THE CEILING GRID PER UK STANDARDS.

MECHANICAL PHASING NOTES

- A THIS PROJECT INTERFACES EXTENSIVELY WITH EXISTING BUILDING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND PHASE ALL TIE-INS AND INTERRUPTIONS OF EXISTING SERVICES TO MINIMIZE OR ELIMINATE DOWNTIME. AS AN EXAMPLE, MAIN GAS SERVICE, WATER SERVICE, ELECTRICAL SERVICE, HVAC SERVICES, STEAM GENERATION, ETC., WILL BE AFFECTED AND REPLACED OR MOVED DURING THIS PROJECT. THE CONTRACTOR SHALL INSTALL ALL NEW SERVICES AND EQUIPMENT AND HAVE THEM TESTED AND FULLY AND RELIABLY FUNCTIONAL PRIOR TO INTERRUPTING, RELOCATING OR REMOVING ANY EXISTING SERVICES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BARE ANY AND ALL COSTS ASSOCIATED WITH THIS PHASING, INCLUDING TEMPORARY SERVICES, TEMPORARY RELOCATION, PREMIUM TIME WORK, ETC. CONTRACTOR SHALL COORDINATE ALL SAID WORK WITH THE OWNER AND APPLICABLE UTILITIES PER THE CONTRACT DOCUMENTS.

ABBREVIATIONS

Table with 2 columns: Abbreviation and Description. Includes AC (ALTERNATING CURRENT), ADJ (ADJUSTABLE), AFF (ABOVE FINISHED FLOOR), AFR (ABOVE FINISHED ROOF), AFUE (ANNUAL FUEL UTILIZATION EFFICIENCY), AHJ (AUTHORITY HAVING JURISDICTION), AMP (AMPERE (AMP, AMPS)), ANSI (AMERICAN NATIONAL STANDARD INSTITUTE), APD (AIR PRESSURE DROP), ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS), ATU (AIR TERMINAL UNIT), AVG (AVERAGE), BAS (BUILDING AUTOMATION SYSTEM), BHP (BREAK HORSEPOWER), BTU (BRITISH THERMAL UNIT), CAP (CAPACITY), CAV (CONSTANT AIR VOLUME), CD (CONDENSATE DRAIN), CFM (CUBIC FEET PER MINUTE), C.I. (CAST IRON), CLG (CEILING), CLR (CLEAR), CO (CARBON MONOXIDE), CO2 (CARBON DIOXIDE), COND (CONDENS (-ER, -ING, -ATION, -ATE)), CONT (CONTINU (-ED, -OUS)), CU FT (CUBIC FEET), CU IN (CUBIC INCHES), CV (VALVE FLOW COEFFICIENT), dB (DECIBEL), DB (DRY BULB), DBT (DRY BULB TEMPERATURE), DC (DIRECT CURRENT), DD (DUCT SMOKE DETECTOR), DDC (DIRECT DIGITAL CONTROLS), DEG (DEGREE (-S)), DIA (DIAMETER (-S)), DN (DOWN), DWG (DRAWING), EAT (ENTERING AIR TEMPERATURE), EC (ELECTRICAL CONTRACTOR), ELEV (ELEVATION (-TION, -TOR)), ENGR (ENGINEER), EQ (EQUAL), ESP (EXTERNAL STATIC PRESSURE), ETR (EXISTING TO REMAIN), EVAP (EVAPORAT (-E, -ING, -ED, -OR, -ION)), EWT (ENTERING WATER TEMPERATURE), EXP (EXPANSION), EXT (EXTERIOR), FA (FREE AREA)

ABBREVIATIONS (CONTINUED)

Table with 2 columns: Abbreviation and Description. Includes FD (FIRE DAMPER), FL (FLOOR), FLA (FULL LOAD AMPS), FOB (FLAT ON BOTTOM), FOT (FLAT ON TOP), FPC (FIRE PROTECTION CONTRACTOR), FPM (FEET PER MINUTE), FPS (FEET PER SECOND), FT (FEET OR FOOT), FUT (FUTURE), FV (FACE VELOCITY), GA (GAGE/GAUGE), GAL (GALLON (-S)), GC (GENERAL CONTRACTOR), GPD (GALLONS PER DAY), GPH (GALLONS PER HOUR), GPM (GALLONS PER MINUTE), GR (GRAINS), H (HUMIDITY), HD (HEAD), HG (MERCURY), HORIZ (HORIZONTAL), HP (H (-ORSEPOWER, -EAT PUMP)), HR (HOUR (-S)), HVAC (HEATING, VENTILATING, & AIR-CONDITIONING), Hz (HERTZ), ID 1 (-IDENTIFICATION, -INSIDE DIAMETER, -NSIDE DIMENSION), IN (INCH (-ES)), INSUL (INSULAT (-ED, -ION)), INT (INTER (-IOR, -ERVAL)), IPS (IRON PIPE SIZE), kW (KILOWATT), kWh (KILOWATT HOUR), LAT (LEAVING AIR TEMPERATURE), LBS (POUNDS), LF (LINEAR FEET/FOOT), LRA (LOCKED ROTOR AMPS), LWT (LEAVING WATER TEMPERATURE), LMX (MAXIMUM), MBH (BTU PER HOUR [THOUSANDS]), MCA (MINIMUM CIRCUIT AMPS), MFG (MANUFACTURER), MIN (MIN (-IMUM, -UTE)), MISC (MISCELLANEOUS), MOPC (MAXIMUM OVERCURRENT PROTECTION [AMPS]), MTG (MOUNTING), N/A (NOT APPLICABLE), NC (NOISE CRITERIA OR NORMALLY CLOSED), NEBB (NATIONAL ENVIRONMENTAL BALANCING BUREAU), NIC (NOT IN CONTRACT), NO (NORMALLY OPEN OR NUMBER), NTS (NOT TO SCALE), OC (ON CENTER), OD (OUTSIDE DI (-AMETER, -HENSION)), OFCI (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED), OFCI (OWNER FURNISHED, CONTRACTOR INSTALLED), OFOI (OWNER FURNISHED, OWNER INSTALLED), OR (OPEN RECEPTACLE), OZ (OUNCE (-S)), PC (PLUMBING CONTRACTOR), PD (PRESSURE DROP), PH (PHASE [ELECTRICAL]), PLBG (PLUMBING), PPM (PARTS PER MILLION), PRS (PRESSURE REDUCING STATION), PRV (PRESSURE REDUCING VALVE (STEAM, WATER, GAS)), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PSIG (PPSI GAUGE), RH (RELATIVE HUMIDITY [%]), RLA (RUNNING LOAD AMPS), RPM (REVOLUTIONS PER MINUTE), SD (SMOKE DAMPER), SP (STATIC PRESSURE), SQ (SQUARE), SQ FT (SQUARE FEET OR FOOT), SQ IN (SQUARE INCH OR INCHES), TAB (TESTING AND BALANCING), TBD (TO BE DETERMINED), TE (TOP ELEVATION), TEMP (TEMPERATURE), TSP (TOTAL STATIC PRESSURE), TYP (TYPICAL), UNO (UNLESS NOTED OTHERWISE), V (VOLT (-AGE, -S)), VAR (VARI (-ABLE, -IES)), VAV (VARIABLE AIR VOLUME), VEL (VELOCITY), VFD (VARIABLE FREQUENCY DRIVE), W (WATT (-AGE, -S)), WB (WET BULB), WBT (WET BULB TEMPERATURE), WPD (WATER PRESSURE DROP), WT (WEIGHT), W/ (WITH), W/O (WITHOUT), % (PERCENT), ΔP (DIFFERENTIAL PRESSURE), ΔT (TEMPERATURE DIFFERENCE), ƒ (CENTERLINE)

ABBREVIATIONS (CONTINUED)

Table with 2 columns: Abbreviation and Description. Includes NO (NORMALLY OPEN OR NUMBER), NTS (NOT TO SCALE), OC (ON CENTER), OD (OUTSIDE DI (-AMETER, -HENSION)), OFCI (CONTRACTOR FURNISHED, CONTRACTOR INSTALLED), OFCI (OWNER FURNISHED, CONTRACTOR INSTALLED), OFOI (OWNER FURNISHED, OWNER INSTALLED), OR (OPEN RECEPTACLE), OZ (OUNCE (-S)), PC (PLUMBING CONTRACTOR), PD (PRESSURE DROP), PH (PHASE [ELECTRICAL]), PLBG (PLUMBING), PPM (PARTS PER MILLION), PRS (PRESSURE REDUCING STATION), PRV (PRESSURE REDUCING VALVE (STEAM, WATER, GAS)), PSF (POUNDS PER SQUARE FOOT), PSI (POUNDS PER SQUARE INCH), PSIG (PPSI GAUGE), RH (RELATIVE HUMIDITY [%]), RLA (RUNNING LOAD AMPS), RPM (REVOLUTIONS PER MINUTE), SD (SMOKE DAMPER), SP (STATIC PRESSURE), SQ (SQUARE), SQ FT (SQUARE FEET OR FOOT), SQ IN (SQUARE INCH OR INCHES), TAB (TESTING AND BALANCING), TBD (TO BE DETERMINED), TE (TOP ELEVATION), TEMP (TEMPERATURE), TSP (TOTAL STATIC PRESSURE), TYP (TYPICAL), UNO (UNLESS NOTED OTHERWISE), V (VOLT (-AGE, -S)), VAR (VARI (-ABLE, -IES)), VAV (VARIABLE AIR VOLUME), VEL (VELOCITY), VFD (VARIABLE FREQUENCY DRIVE), W (WATT (-AGE, -S)), WB (WET BULB), WBT (WET BULB TEMPERATURE), WPD (WATER PRESSURE DROP), WT (WEIGHT), W/ (WITH), W/O (WITHOUT), % (PERCENT), ΔP (DIFFERENTIAL PRESSURE), ΔT (TEMPERATURE DIFFERENCE), ƒ (CENTERLINE)

GENERAL SYMBOLS

Table with 2 columns: Symbol and Description. Includes TAGGED NOTE DESIGNATOR, REVISION TRIANGLE, ROOM TAG, EQUIPMENT TAG, POINT OF CONNECTION / CONNECT TO EXISTING, POINT OF DEMOLITION

HVAC LEGEND

Table with 2 columns: Symbol and Description. Includes SUPPLY AIR DIFFUSER, RETURN AIR DIFFUSER, EXHAUST AIR DIFFUSER, TRANSFER AIR DIFFUSER W/ SOUND ATTENUATING BOOT, SIDEWALL DIFFUSER/GRILLE, SIDEWALL DIFFUSER/GRILLE, AIR DEVICE TAG (REGISTER, GRILLE, DIFFUSER/LOUVER), RECTANGULAR DUCT, ROUND/SPIRAL DUCT, FLAT OVAL DUCT, SUPPLY AIR DUCT, RETURN AIR DUCT, EXHAUST AIR DUCT, OUTSIDE AIR DUCT, TRANSFER AIR DUCT, COMBUSTION AIR EXHAUST DUCT, COMBUSTION AIR INTAKE DUCT, SA AIR DUCT TURNING UP, SA AIR DUCT TURNING DOWN, RA AIR DUCT TURNING UP, RA AIR DUCT TURNING DOWN, EA AIR DUCT TURNING UP, EA AIR DUCT TURNING DOWN, EXISTING DUCT - (XXX) DENOTES SYSTEM, DUCT TO BE DEMOLISHED - (XXX) DENOTES SYSTEM, DUCT TO BE ABANDONED IN PLACE - (XXX) DENOTES SYSTEM, MITERED ELBOW WITH TURNING VANES, FLEXIBLE DUCT, THERMOSTAT, TEMPERATURE SENSOR, HUMIDITY SENSOR, CARBON DIOXIDE SENSOR, TEMPERATURE & CARBON DIOXIDE SENSOR, MANUAL BALANCING/VOLUME DAMPER, MOTORIZED DAMPER, FIRE DAMPER, SMOKE DAMPER, COMBINATION FIRE & SMOKE DAMPER

MECHANICAL PIPING LEGEND

Table with 2 columns: Symbol and Description. Includes PIPE ELBOW TURNING UP, PIPE ELBOW TURNING DOWN, PIPE TEE: CONNECTION ON TOP, PIPE TEE: CONNECTION ON BOTTOM, PIPE CAP, BOILER FEEDWATER, COMBUSTION AIR INTAKE/EXHAUST, CHILLED BEAM SUPPLY/RETURN, CONDENSATE DRAIN, CHILLED WATER SUPPLY/RETURN, CLEAN STEAM PIPING, CONDENSER WATER SUPPLY/RETURN, DUAL TEMP. WATER SUPPLY/RETURN, GEOTHERMAL WATER SUPPLY/RETURN, HIGH PRESSURE STEAM CONDENSATE, HIGH PRESSURE STEAM, (#) DENOTES PRESSURE, HEAT PUMP WATER SUPPLY/RETURN, HEAT RECOVERY SUPPLY/RETURN PIPING, HEATING WATER SUPPLY/RETURN, LOW PRESSURE STEAM CONDENSATE, LOW PRESSURE STEAM, (#) DENOTES PRESSURE, MEDIUM PRESSURE STEAM RETURN, MEDIUM PRESSURE STEAM, (#) DENOTES PRESSURE, STEAM CONDENSATE PUMPED DISCHARGE, STEAM VENT PIPING, PIPING TO BE DEMOLISHED - (XXX) DENOTES SYSTEM, EXISTING PIPING - (XXX) DENOTES SYSTEM, ABANDONED IN PLACE PIPING - (XXX) DENOTES SYSTEM, TWO-WAY CONTROL VALVE, THREE-WAY CONTROL VALVE, AUTOMATIC AIR VENT (AAV), MANUAL AIR VENT (MAV), MANUAL BALANCING VALVE (BV), BALL VALVE, BUTTERFLY VALVE, TRIPLE DUTY VALVE (TDV), STRAINER, MANUAL ISOLATION VALVE, GLOBE VALVE, OSBY (GATE) VALVE, PRESSURE REDUCING VALVE (STEAM, GAS, WATER, ETC.), AUTO-FLOW CONTROL VALVE, CHECK VALVE, DOUBLE CHECK VALVE ASSEMBLY, FLEXIBLE PIPE CONNECTION, FLOW METER (VENTURI), PIPING UNION, FLOW SWITCH, PRESSURE SWITCH, TAMPER SWITCH, THERMOMETER, PETE'S PLUG; TEMPERATURE/PRESSURE PORT

APPLICABLE BUILDING CODES

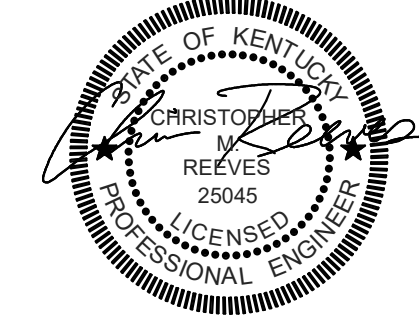
Table with 3 columns: Applicable Building Codes, Document, Year. Lists codes such as ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES (ANSI A117.1, 2009), FIRE SPRINKLER CODE (NFPA 13, 2013), INTERNATIONAL BUILDING CODE (IBC) (STATE EDITION, 2015), INTERNATIONAL ENERGY CONSERVATION CODE (IECC) (STATE EDITION, 2012), INTERNATIONAL FIRE CODE (IFC) (STATE EDITION, 2015), INTERNATIONAL FUEL GAS CODE (IFGC) (STATE EDITION, 2015), INTERNATIONAL MECHANICAL CODE (IMC) (STATE EDITION, 2015), INTERNATIONAL PLUMBING CODE (IPC) (STATE EDITION, 2015), INTERNATIONAL EXISTING BUILDING CODE (IEBC) (STATE EDITION, 2009), NATIONAL ELECTRIC CODE (NEC) (NFPA 70, 2017), NATIONAL FIRE ALARM & SIGNALING CODE (NFPA 72, 2013), UNIFORM STATEWIDE BUILDING CODE (2018)

MECHANICAL HAZARDOUS MATERIALS NOTES

- A THE CONTRACTOR IT IS HEREBY ADVISED THAT IT IS POSSIBLE THAT ASBESTOS AND/OR OTHER HAZARDOUS MATERIALS ARE OR WERE PRESENT IN THIS BUILDING(S). ANY WORKER, OCCUPANT, VISITOR, ETC., WHO ENCOUNTERS ANY MATERIAL OF WHOSE CONTENT THEY ARE NOT CERTAIN SHALL PROMPTLY REPORT THE EXISTENCE AND LOCATION OF THAT MATERIAL TO THE OWNER. FURTHERMORE, THE CONTRACTOR SHALL INSURE THAT NO ONE COMES NEAR TO OR IN CONTACT WITH ANY SUCH MATERIAL OR FUMES THEREFROM UNTIL ITS CONTENT CAN BE ASCERTAINED TO BE NON-HAZARDOUS.
B CMTA, INC. HAS NO EXPERTISE IN THE DETERMINATION OF THE PRESENCE OF ANY HAZARDOUS MATERIAL. THEREFORE, NO ATTEMPT HAS BEEN MADE BY CMTA TO IDENTIFY THE EXISTENCE OR LOCATION OF ANY SUCH HAZARDOUS MATERIAL. FURTHERMORE, CMTA NOR ANY AFFILIATE HEREOF WILL NOT OFFER OR MAKE ANY RECOMMENDATIONS RELATIVE TO THE REMOVAL, HANDLING OR DISPOSAL OF SUCH MATERIAL.
C IF THE WORK WHICH IS TO BE PERFORMED INTERFACES, CONNECTS OR RELATES IN ANY PHYSICAL WAY WITH OR TO EXISTING COMPONENTS WHICH CONTAIN OR BEAR ANY HAZARDOUS MATERIAL, ASBESTOS BEING ONE, THEN IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO CONTACT THE OWNER AND SO ADVISE HIM IMMEDIATELY.
D THE CONTRACTOR BY EXECUTION OF THE CONTRACT FOR ANY WORK AND/OR BY THE ACCOMPLISHMENT OF ANY WORK THEREBY AGREE TO BRING NO CLAIM RELATIVE TO HAZARDOUS MATERIALS FOR NEGLIGENCE, BREACH OF CONTRACT, INDEMNITY, OR ANY OTHER SUCH ITEM AGAINST CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS OR CONSULTANTS. ALSO, THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD CMTA, ITS PRINCIPALS, EMPLOYEES, AGENTS AND CONSULTANTS HARMLESS FROM ANY SUCH RELATED CLAIMS WHICH MAY BE BROUGHT BY ANY SUBCONTRACTORS, SUPPLIERS OR ANY OTHER THIRD PARTIES.
E THE CONTRACTOR IS DIRECTED TO THE SPECIFICATIONS FOR FURTHER INFORMATION.



3225 Summit Square Place, Suite 200 Lexington, Kentucky 40509 859.252.6781



RESERVED FOR AHJ STAMP



BP-02, SITE UTILITIES

MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING UNIVERSITY OF KENTUCKY 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



MECHANICAL

Table with 2 columns: PROJECT (XKSM21), DATE (3/18/2024)

REVISIONS

Table with 3 columns: No., Description, Date

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT, IN WHOLE OR IN PART, FOR ANY PROJECT OTHER THAN THE PROJECT FOR WHICH THEY WERE PREPARED. THE CLIENT AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELEASE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

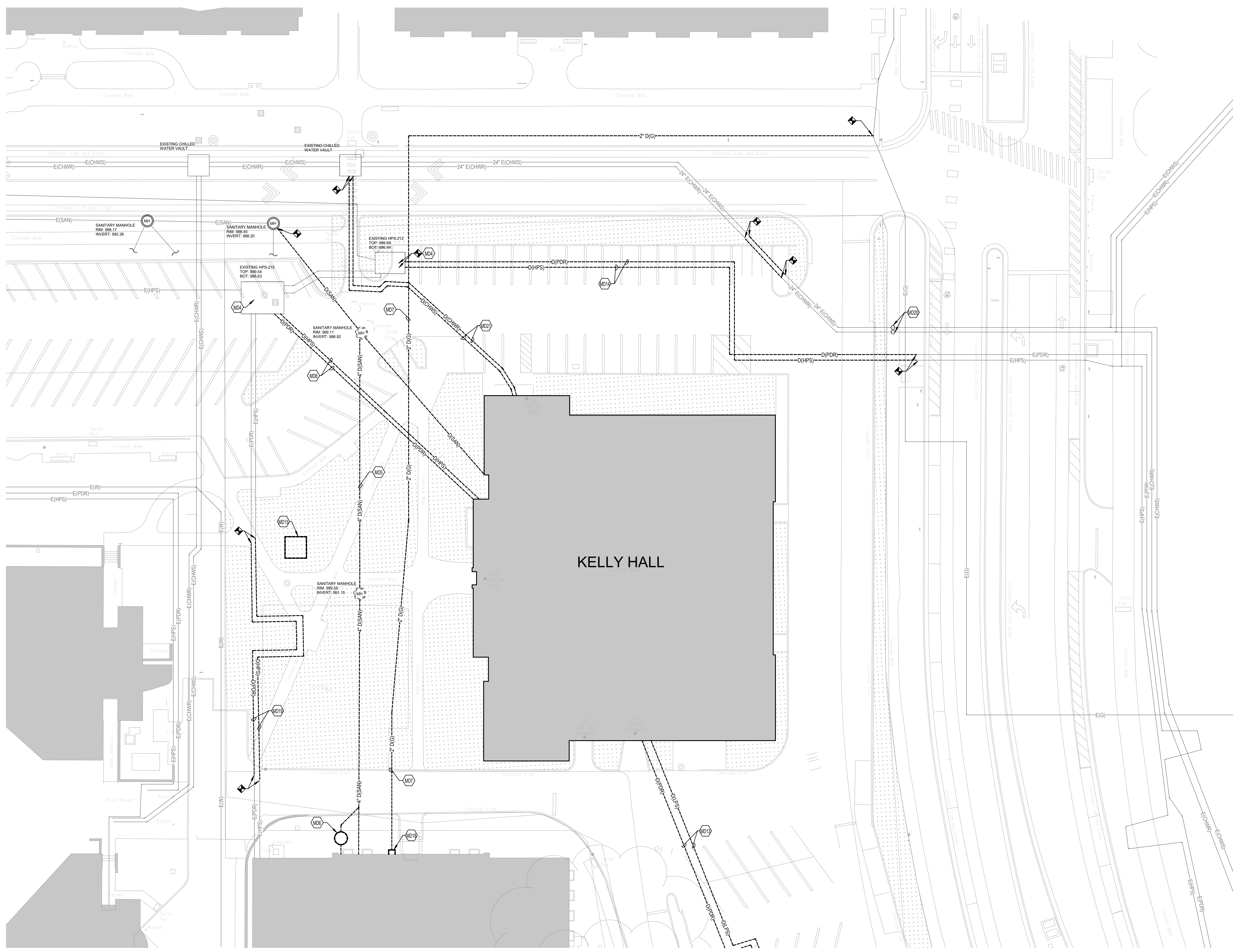
MECHANICAL LEGEND

M-100

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MECHANICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.
C FEDERAL, STATE, LOCAL, MUNICIPALITY AND UTILITY COMPANY CODES, RULES, REGULATIONS AND REQUIREMENTS APPLY UNLESS EXCEEDED BY THIS DESIGN.
D WHEN INTERRUPTION OF AN EXISTING UTILITY OR SERVICES IS PLANNED OR OCCURS ACCIDENTALLY, THE CONTRACTOR(S) SHALL WORK CONTINUOUSLY AS NEEDED TO RESTORE SAME PROVIDING PREMIUM TIME AS NEEDED AT NO INCREASE IN THE CONTRACT PRICE.
E PLANNED INTERRUPTION OF ANY SERVICE SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPALITY OR UTILITY COMPANY, THE ARCHITECT AND THE BUILDING OPERATORS AT LEAST TWO WEEKS IN ADVANCE OF ANTICIPATED INTERRUPTION. A SCHEDULE FOR THESE OUTAGES SHALL BE DEVELOPED AND AGREED UPON BETWEEN THE PARTIES MENTIONED TO AVOID UNNECESSARY INCONVENIENCE TO THE OWNER OR ANY AFFECTED PARTY. NOTIFY THE UTILITY COMPANY OF ANY ANTICIPATED SERVICES REQUIRED FROM THEM AT LEAST TWO WEEKS IN ADVANCE IN WRITING AND INSURE THAT THEY DO NOT DELAY WORK.
F LOCATIONS, DEPTHS, MATERIAL TYPES, ELEVATIONS, ETC. OF ALL APPURTENANCES, LINES, BUILDINGS, ETC. INDICATED ON THESE DRAWINGS WERE TAKEN FROM VARIOUS SOURCES, ARE DIAGRAMMATIC ONLY AND ARE SUBJECT TO SUBSTANTIAL VARIATION FROM EXISTING CONDITIONS. EXISTING UTILITIES LOCATIONS MAY VARY (CONSEQUENTLY ALL CONTRACTORS SHALL EXERCISE EXTREME CARE IN THE COURSE OF THEIR WORK SO AS INSURE THAT THEY DO NOT INTERRUPT ANY EXISTING SERVICE. FOR SAFETY PURPOSES, PAY PARTICULAR ATTENTION TO THIS PRECAUTION RELATIVE TO NATURAL GAS AND ELECTRICAL LINES. ALL WORK SHALL BE PERFORMED IN ACCORD WITH ALL FEDERAL, STATE, AND/OR LOCAL RULES, REGULATIONS, STANDARDS AND SAFETY REQUIREMENTS. UTILITIES SHALL ALSO BE INSTALLED IN ACCORD WITH THE APPLICABLE MUNICIPALITY OR UTILITY COMPANY STANDARDS. IN ALL CASES, THE MOST STRINGENT REQUIREMENT SHALL APPLY. IF ANY VARIATION OCCURS, CONSULT THE BUILDING ENGINEER AND THE MECHANICAL ENGINEER'S REPRESENTATIVE). CONTRACTOR SHALL VISIT SITE AND FIELD VERIFY THE ROUTING OF ALL UTILITIES.
G CONTRACTOR SHALL REFER TO CIVIL PLANS FOR COORDINATION WITH OTHER UTILITIES.
H COORDINATE ELEVATION AND LOCATION OF ALL PIPING ENTERING BUILDING WITH STRUCTURAL FOUNDATION. CONDUIT SHALL PASS THROUGH STEM WALL OF FOUNDATION OR UNDER FOOTINGS AS REQUIRED.
I THE LOCATIONS OF UTILITIES SHOWN WITHIN THESE DRAWINGS ARE APPROXIMATE ONLY.
J THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY EXCAVATION WORK REQUIRED TO LOCATE UNDERGROUND UTILITIES. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY ANY OTHER AFFECTED UTILITY OWNERS PRIOR TO DIGGING. IN THE EVENT OF ACCIDENTAL INTERRUPTION OF SERVICE, CONTRACTOR WILL IMMEDIATELY NOTIFY THE OTHER UTILITY OWNERS.
K THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD OTHER EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE OTHER UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR EXISTING UTILITIES UNEARTHED DURING CONSTRUCTION.
L IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSURE THAT ANY ABANDONED PIPING UNCOVERED IN THE COURSE OF THEIR WORK SHALL BE CAPPED WATER TIGHT.
M TRENCHES FOR UTILITIES SHALL BE BACKFILLED PER MECHANICAL DETAILS AND SPECIFICATIONS. PAVEMENT, ASPHALT, AND OTHER SURFACE WORK SHALL BE PER CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS.
N THE CONTRACTOR SHALL ADJUST ALL EXISTING MANHOLE RINGS AND COVERS AFFECTED BY THIS PROJECT AS NECESSARY TO BE FLUSH WITH NEW GRADE.
O CONTRACTOR SHALL COORDINATE RESPONSIBILITIES WITH CONSTRUCTION MANAGER. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
P THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND SIZING OF ALL EXPANSION LOOPS PER PIPING MANUFACTURER'S REQUIREMENTS.
Q REFER TO ARCHITECT'S AND CONSTRUCTION MANAGER'S PHASING PLAN FOR CONSTRUCTION PHASING REQUIREMENTS.
R ALL SITE WORK SHALL BE COORDINATED WITH UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION (PPD). ALL OUTAGES SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVANCE.



1 SITE UTILITY PLAN
SCALE: 1" = 20'-0"
0 15' 30' 60' 90' 120'

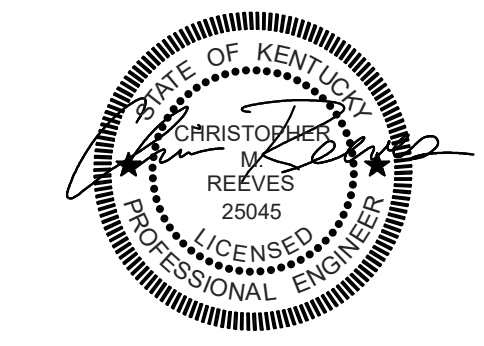
TAGGED NOTES

- MD4 EXISTING STEAM VAULT TO REMAIN. REFER TO DETAIL DRAWING FOR ADDITIONAL REQUIREMENTS.
MD5 TO MINIMIZE SEWER OUTAGE, ALL NEW EXTERIOR SANITARY PIPING SHALL BE INSTALLED PRIOR TO THE DEMOLITION OF EXISTING PIPING.
MD6 REMOVE EXISTING LAB WASTE DILUTION PIT AND DISPOSE OF IN A MANNER APPROVED BY THE UNIVERSITY ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT.
MD7 DEMOLISH NATURAL GAS BACK TO MAIN.
MD8 DEMOLISH EXISTING STEAM PIPING TO KELLY HALL AND ALL STEAM PIPING WITHIN KELLY HALL INCLUDING PRESSURE REDUCING STATION, CONDENSATE PIPING, PUMPS, ETC.
MD13 DEMOLISH EXISTING STEAM PIPING TO ANNEX NO. 5 AND ALL STEAM WITHIN ANNEX NO. 5 INCLUDING PRESSURE REDUCING STATION, CONDENSATE PIPING, PUMPS, ETC.
MD14 DEMOLISH EXISTING STEAM PIPING BACK TO EXTENTS INDICATED. CAP EXISTING PIPING FOR FUTURE CONNECTION.
MD15 ABANDONED STEAM VAULT TO BE DEMOLISHED.
MD18 DEMOLISH EXISTING NATURAL GAS METER. COORDINATE WITH COLUMBIA GAS.
MD19 STEAM OUTAGE FOR THIS SECTION OF PIPING SHALL BE LIMITED TO COOLING SEASON (MAY THROUGH OCTOBER). ANY PROLONGED OUTAGE BEYOND THAT PERIOD SHALL REQUIRE TEMPORARY STEAM SERVICE TO THE BUILDING.
MD20 EXISTING CHILLED WATER AIR VENTS SHALL REMAIN. REPLACE EXISTING COVERS AND MODIFY RISER ELEVATION AS NECESSARY TO MEET NEW SITEWORK GRADE.
MD21 THE UNIVERSITY HAS PREVIOUSLY SHUT OFF THE CHILLED WATER TO KELLY HALL. CAP PIPING TO REMAIN AND DEMOLISH PIPING TO KELLY HALL.

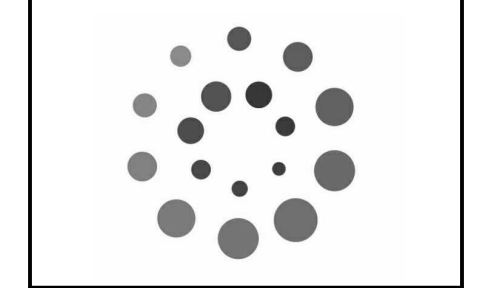
BEFORE YOU DIG
THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BU" (BEFORE YOU DIG) AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BU" TO OBTAIN AN AUTHORIZATION NUMBER.



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Lexington, Kentucky 40509
859.252.6781



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BP-02, SITE UTILITIES
MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING
UNIVERSITY OF KENTUCKY
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



MECHANICAL

Table with 2 columns: PROJECT, DATE. Values: XKSM21, 3/18/2024

Table with 3 columns: No., Description, Date. Row 1: 1, ADDENDUM #3, 4/2/2024

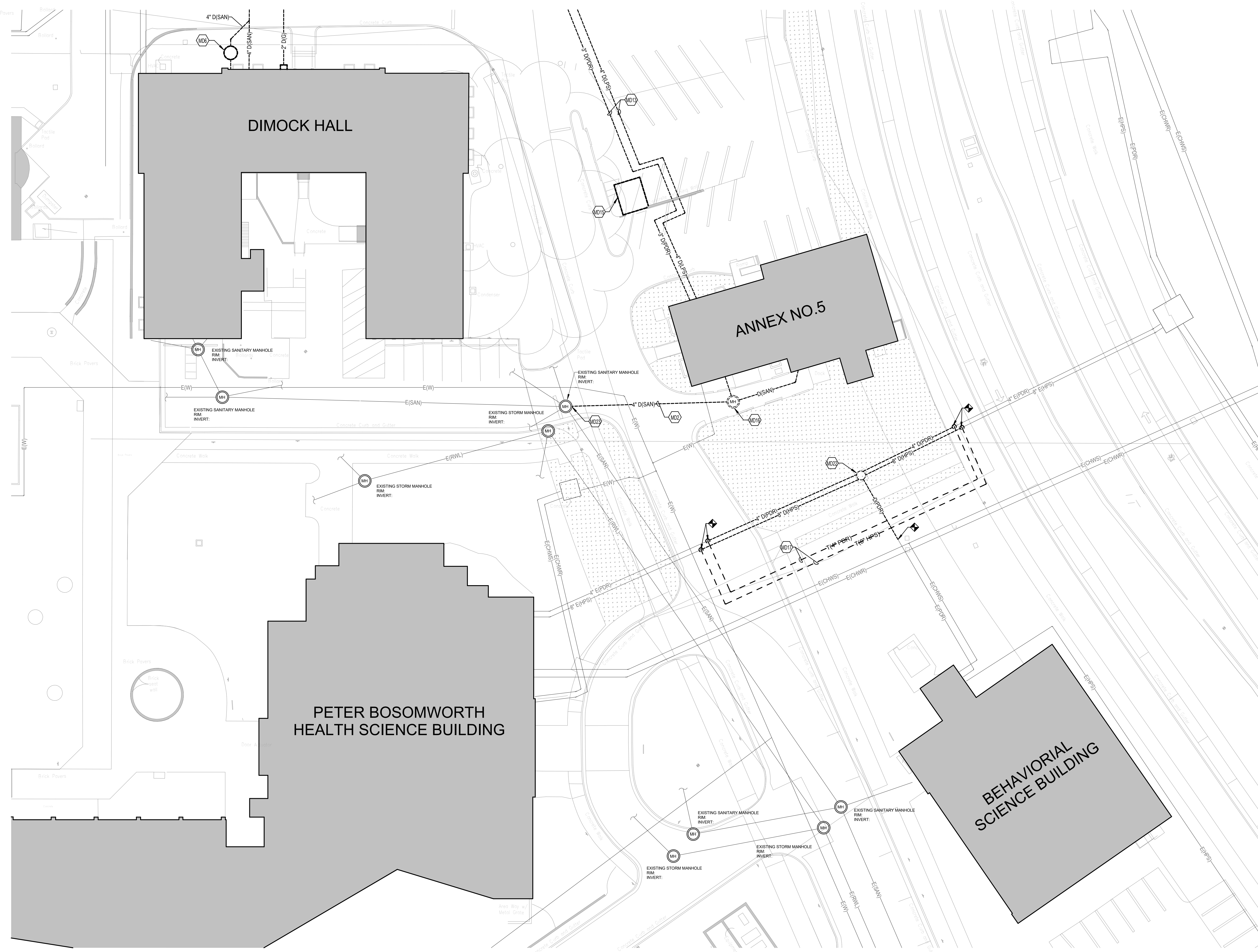
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMAT IN WHOLE OR IN PART FOR ANY PROJECT OTHER THAN THAT FOR WHICH THEY WERE ORIGINALLY PREPARED. THE CLIENT AGREES NOT TO REUSE THESE ELECTRONIC FILES FOR ANY OTHER PROJECT WITHOUT THE PRIOR WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

MECHANICAL SITE DEMOLITION PLAN - AREA A

MU-102
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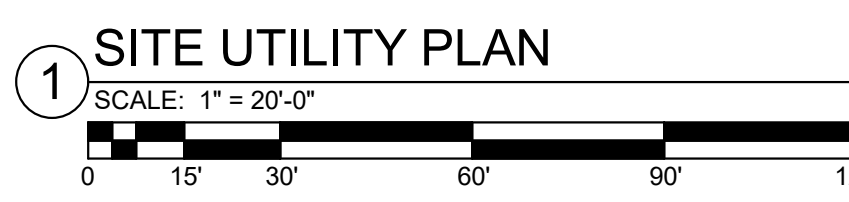
MECHANICAL SITE NOTES

- A DO NOT SCALE FROM MECHANICAL AND ELECTRICAL DRAWINGS. FIELD VERIFY REQUIRED DIMENSIONS.
B CONTRACTOR SHALL CUT AND PATCH ALL PAVEMENT, CURBING, etc. AS REQUIRED FOR WORK. CONTRACTOR SHALL REPAIR ALL LANDSCAPING THAT IS DAMAGED FOR WORK.
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S ALL SITE WORK SHALL BE COORDINATED WITH UNIVERSITY OF KENTUCKY PHYSICAL PLANNING DIVISION (PPD). ALL OUTAGES SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVANCE.



TAGGED NOTES

- MD2 DEMOLISH SANITARY SEWER TO ANNEX BUILDING.
MD6 REMOVE EXISTING LAB WASTE DILUTION PIT AND DISPOSE OF IN A MANNER APPROVED BY THE UNIVERSITY ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT.
MD13 DEMOLISH EXISTING STEAM PIPING TO ANNEX NO. 5 AND ALL STEAM WITHIN ANNEX NO. 5 INCLUDING PRESSURE REDUCING STATION, CONDENSATE PIPING, PUMPS, ETC.
MD15 ABANDONED STEAM VAULT TO BE DEMOLISHED.
MD16 EXISTING SANITARY MANHOLE TO BE DEMOLISHED.
MD17 CONTRACTOR SHALL PROVIDE TEMPORARY ABOVE-GRADE STEAM PIPING DURING DEMOLITION AND/OR CONSTRUCTION AS TO MINIMIZE SERVICE OUTAGE FOR THE PETER BOSOMWORTH HEALTH SCIENCE BUILDING. CONTRACTOR SHALL COORDINATE AND CONFIRM ANY SERVICE OUTAGES WITH THE UNIVERSITY. AT THE CONTRACTOR'S DISCRETION, A TEMPORARY STEAM BOILER MAY BE USED AS AN ALTERNATIVE TO PROVIDE TEMPORARY SERVICE. TEMPORARY PIPING SHALL BE FULLY INSULATED. PROVIDE TEMPORARY CONNECTION FOR BEHAVIORAL SCIENCE BUILDING PDR PIPE.
MD22 EXISTING STEAM VALVE BOX SHALL BE DEMOLISHED. THE CONTRACTOR MAY REUSE THE EXISTING OPEN BOTTOM VAULT IF IT CAN BE RELOCATED WITHOUT DAMAGE.
MD23 PATCH EXISTING MANHOLE PENETRATION. MANHOLE TO REMAIN IN SERVICE.



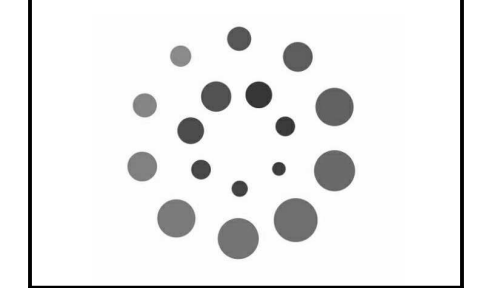
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BP-02, SITE UTILITIES
MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING
UNIVERSITY OF KENTUCKY
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



MECHANICAL

PROJECT XKSM21
DATE 3/18/2024

Table with 3 columns: No., Description, Date. Row 1: 1, ADDENDUM #3, 4/2/2024

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS... IN ELECTRONIC OR ANY OTHER FORMAT... IN WHOLE OR IN PART... FOR ANY PURPOSE OTHER THAN FOR THE PROJECT... THE CLIENT AGREES TO HOLD JRA ARCHITECTS HARMLESS FROM ANY CLAIMS AGAINST THE ARCHITECT... RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

MECHANICAL SITE DEMOLITION PLAN - AREA B

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**MECHANICAL SITE NOTES**

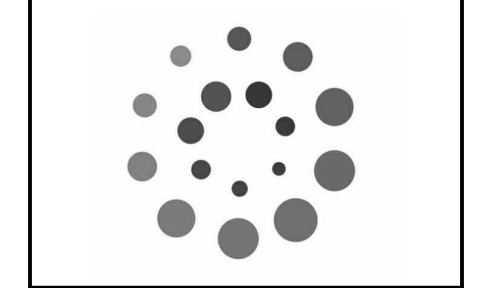
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- S ALL SITE WORK SHALL BE COORDINATED WITH UNIVERSITY OF KENTUCKY PHYSICAL PLANT DIVISION (PPD). ALL OUTAGES SHALL BE SCHEDULED A MINIMUM OF TWO WEEKS IN ADVANCE.



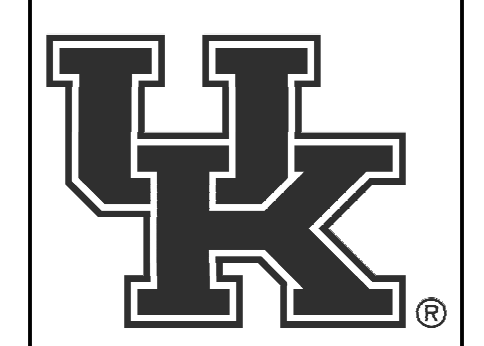
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859.252.6781



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**BP-02, SITE UTILITIES**  
**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**MECHANICAL**

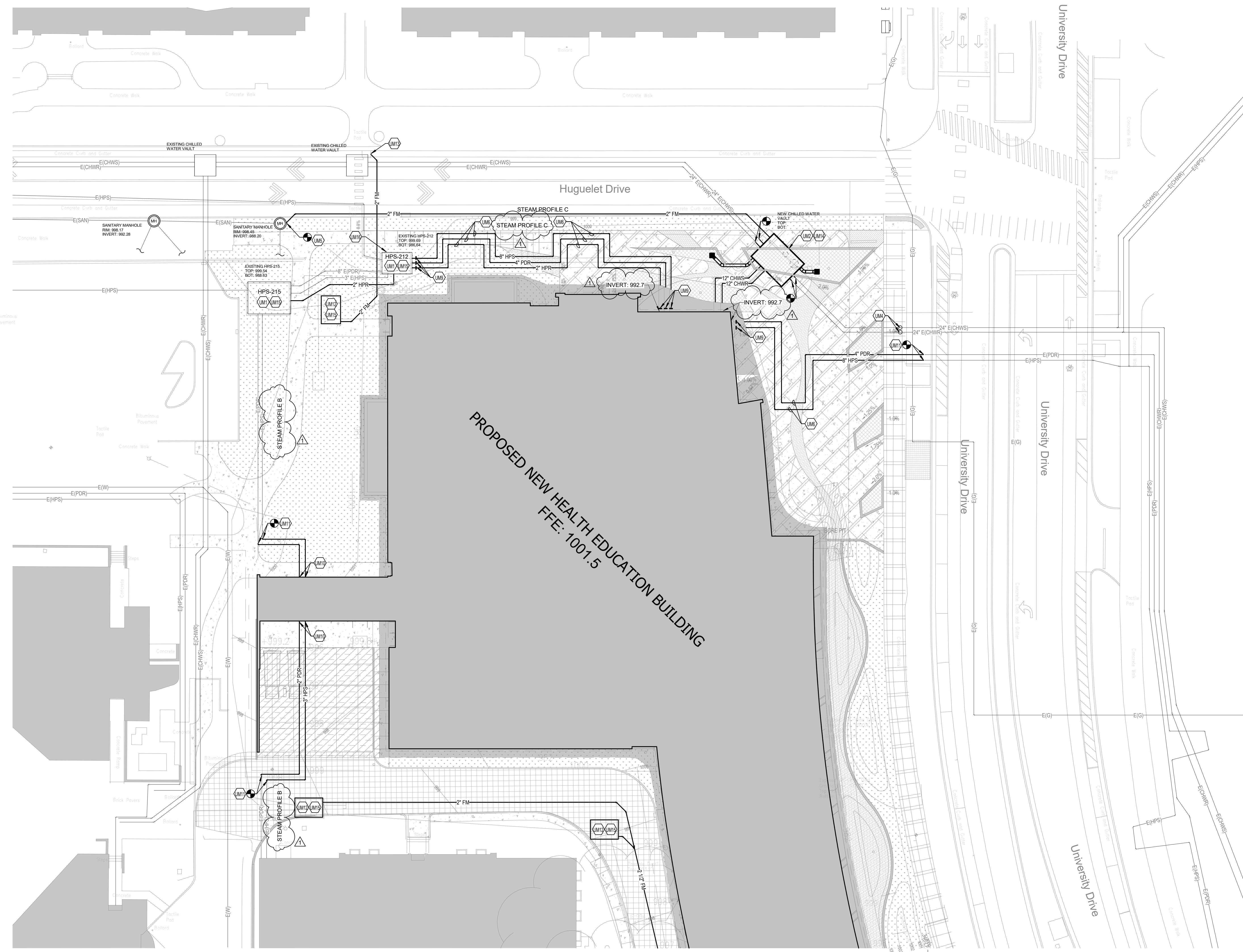
PROJECT	XKSM21
DATE	3/18/2024
REVISIONS	
No.	Description
1	ADDENDUM #3
	Date
	4/2/2024

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**MECHANICAL SITE UTILITY PLAN - AREA A**

**MU-202**

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**TAGGED NOTES**

- UM1 EXISTING STEAM VAULT TO REMAIN. ALL INSULATION WITHIN THE VAULT SHALL BE REPLACED. CONTRACTOR SHALL MAINTAIN A FUNCTIONING SUMP PUMP AND PROVIDE TEMPORARY POWER IN THE VAULTS THROUGHOUT CONSTRUCTION. REFER TO DETAIL DRAWING FOR ADDITIONAL REQUIREMENTS.
- UM2 NEW CHILLED WATER VAULT WITH ACCESS PROVIDED WITHIN PLANT BED. REFER TO DETAIL DRAWING FOR ADDITIONAL REQUIREMENTS.
- UM4 EXISTING CHILLED WATER AIR VENTS SHALL REMAIN. ADJUST THE ELEVATION OF ACCESS POINT COVERS AS REQUIRED.
- UM5 PROVIDE A MASTER TRAP PRIOR TO CONNECTING TO THE EXISTING MANHOLE. SEAL MANHOLE PENETRATION WATER TIGHT AND TEST IN ACCORDANCE WITH STATE AND MUNICIPAL REQUIREMENTS.
- UM6 EXPANSION LOOPS TO BE SIZED BY PIPE MANUFACTURER. EXPANSION LOOP TO BE CALCULATED OFF 500°F TEMPERATURE. PROVIDE A MINIMUM OF SIX INCHES OF EXPANSION.
- UM8 PIPE ANCHOR. PIPE SHALL BE CONCRETE ENCASED AT THIS LOCATION.
- UM10 PIPING SHALL PASS THROUGH FOUNDATION WALL OR UNDER THE FOOTER OF THE LOADING DOCK. PIPE SHALL BE BACKFILLED WITH FLOWABLE FILL FOR THE WIDTH OF THE DOCK PLUS THREE FEET ON EITHER SIDE.
- UM11 INSTALL A FIELD APPLIED INSULATION AND OUTER CONDUIT TO TRANSITION FROM THE NEW PIPING TO THE EXISTING PIPE. TRANSITION SHALL EXTEND A MINIMUM OF 18 INCHES ONTO THE NEW PIPE.
- UM12 ELECTRICAL VAULT SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO ELECTRICAL PLANS.
- UM13 FORCED MAIN FROM VAULT SUMP PUMP TO DISCHARGE INTO NEAREST CURB STORM INLET.
- UM14 PROVIDE THREE (3) 3/4" CONTROL CONDUITS FROM THE VAULT TO THE BUILDING BASEMENT.
- UM15 PROVIDE A 3/4" CONTROL CONDUIT FROM THE VAULT TO THE BASEMENT MECHANICAL ROOM.
- UM16 ADJUST EXISTING VAULT LID AND RISER TO ACCOMMODATE NEW SITE GRADING. LID SHALL BE ADJUSTED APPROXIMATELY ONE FOOT. REFER TO CIVIL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

**1 SITE UTILITY PLAN**  
SCALE: 1" = 20'-0"  
0 15' 30' 60' 90' 120'

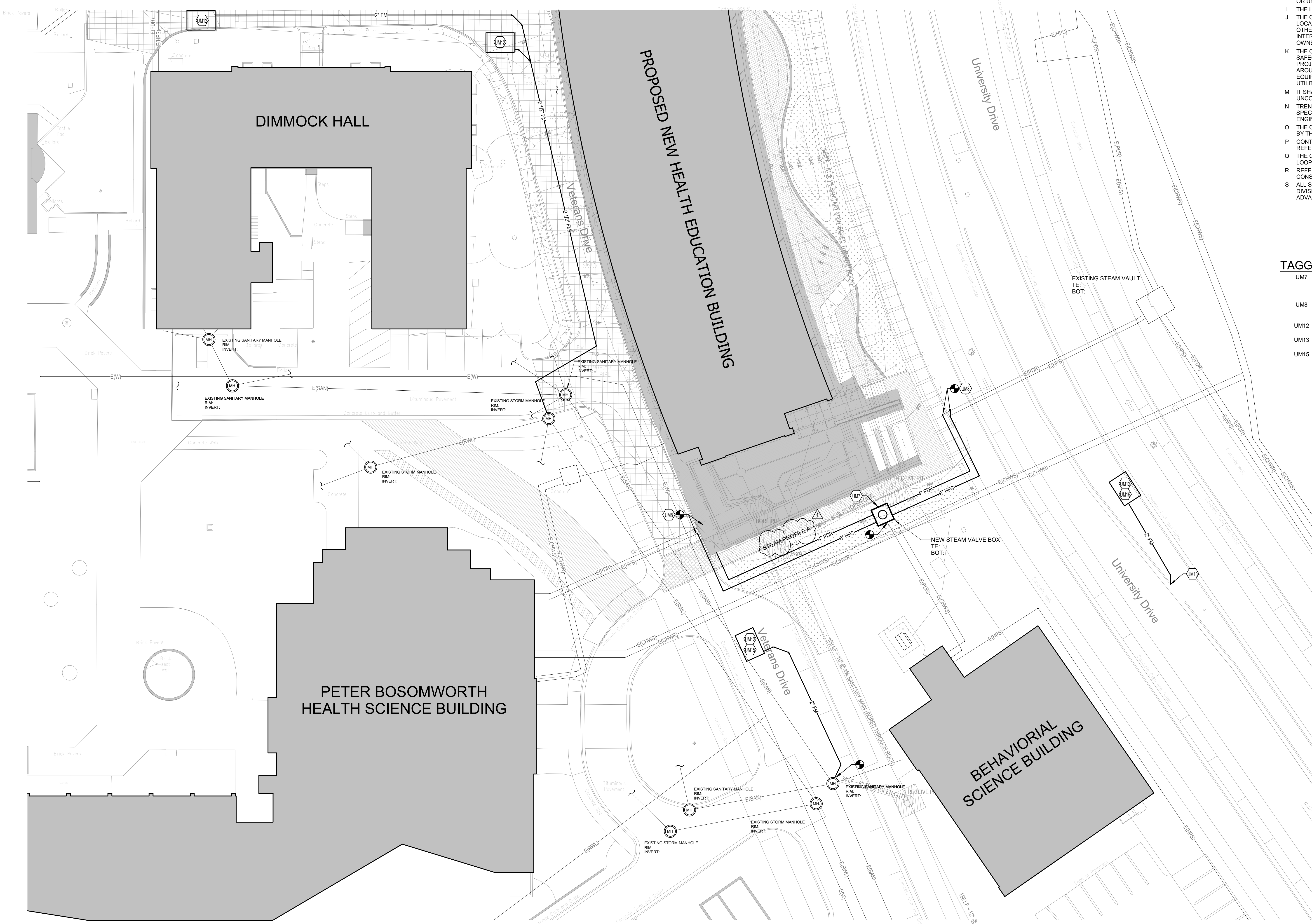
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### TAGGED NOTES

- UM7 STEAM VALVE BOX SHALL BE APPROXIMATELY 4 FEET BY 4 FEET WITH A GRAVEL BOTTOM TO ALLOW DRAINAGE. VALVE SHALL BE CENTERED IN THE MANHOLE OPENING. MANHOLE SHALL BE 30 INCH DIAMETER WITH THE SERVICE IDENTIFIED ON THE LID.
- UM8 WHERE NEW PIPING CONNECTS TO EXISTING, AT LEAST TWO FEET OF EXISTING INSULATION SHALL BE REMOVED AND FIELD WRAPPED WITH NEW TO BE CONTINUOUS WITH THE NEW PIPE INSULATION.
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- UM13 FORCED MAIN FROM VAULT SUMP PUMP TO DISCHARGE INTO NEAREST CURB STORM INLET.
- UM15 PROVIDE A 3" CONTROL CONDUIT FROM THE VAULT TO THE BASEMENT MECHANICAL ROOM.

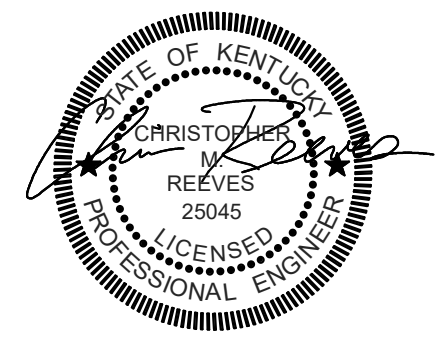


1 SITE UTILITY PLAN

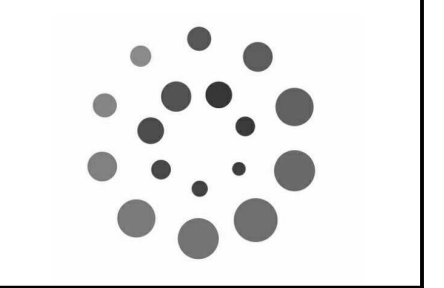
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**BP-02, SITE UTILITIES**

**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



### MECHANICAL

PROJECT	XKSM21
DATE	3/18/2024

REVISIONS		
No.	Description	Date
1	ADDENDUM #3	4/2/2024

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### MECHANICAL SITE UTILITY PLAN - AREA B

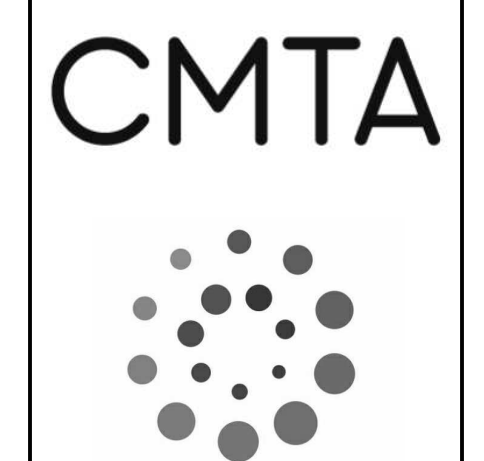
MU-203

**BEFORE YOU DIG**

THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL CONTACT "BU" (BEFORE YOU DIG) AT 1-800-752-6007 TO OBTAIN UNDERGROUND UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY CONTRACTOR OR SUBCONTRACTOR PERFORMING ANY TYPE OF EXCAVATION ON THIS PROJECT SHALL CALL "BU" TO OBTAIN AN AUTHORIZATION NUMBER.



RESERVED FOR AHJ STAMP



**BP-02, SITE UTILITIES**  
**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
UNIVERSITY OF KENTUCKY  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**MECHANICAL**

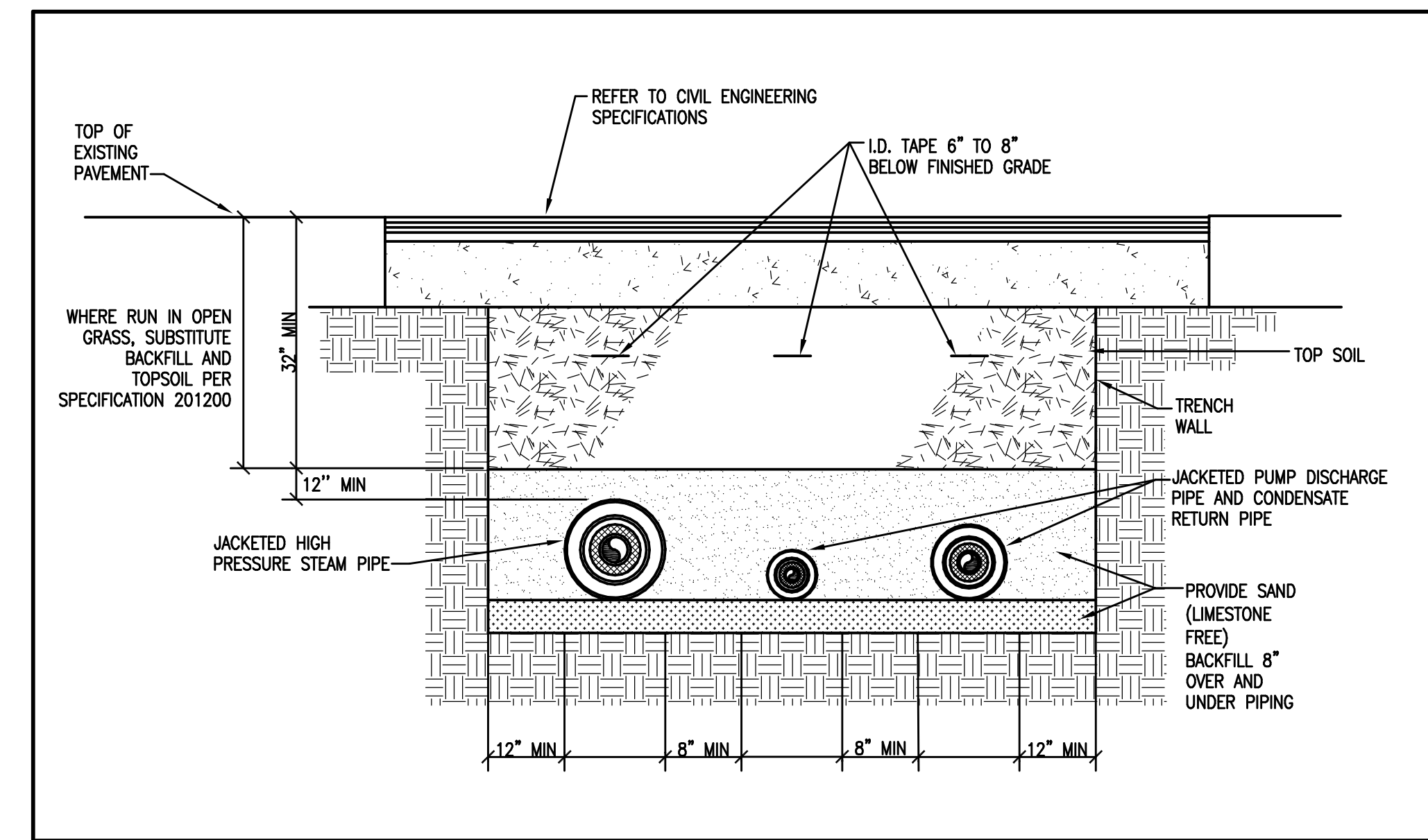
PROJECT	XKSM21	
DATE	3/18/2024	
<b>REVISIONS</b>		
No.	Description	Date
1	ADDENDUM #3	4/2/2024

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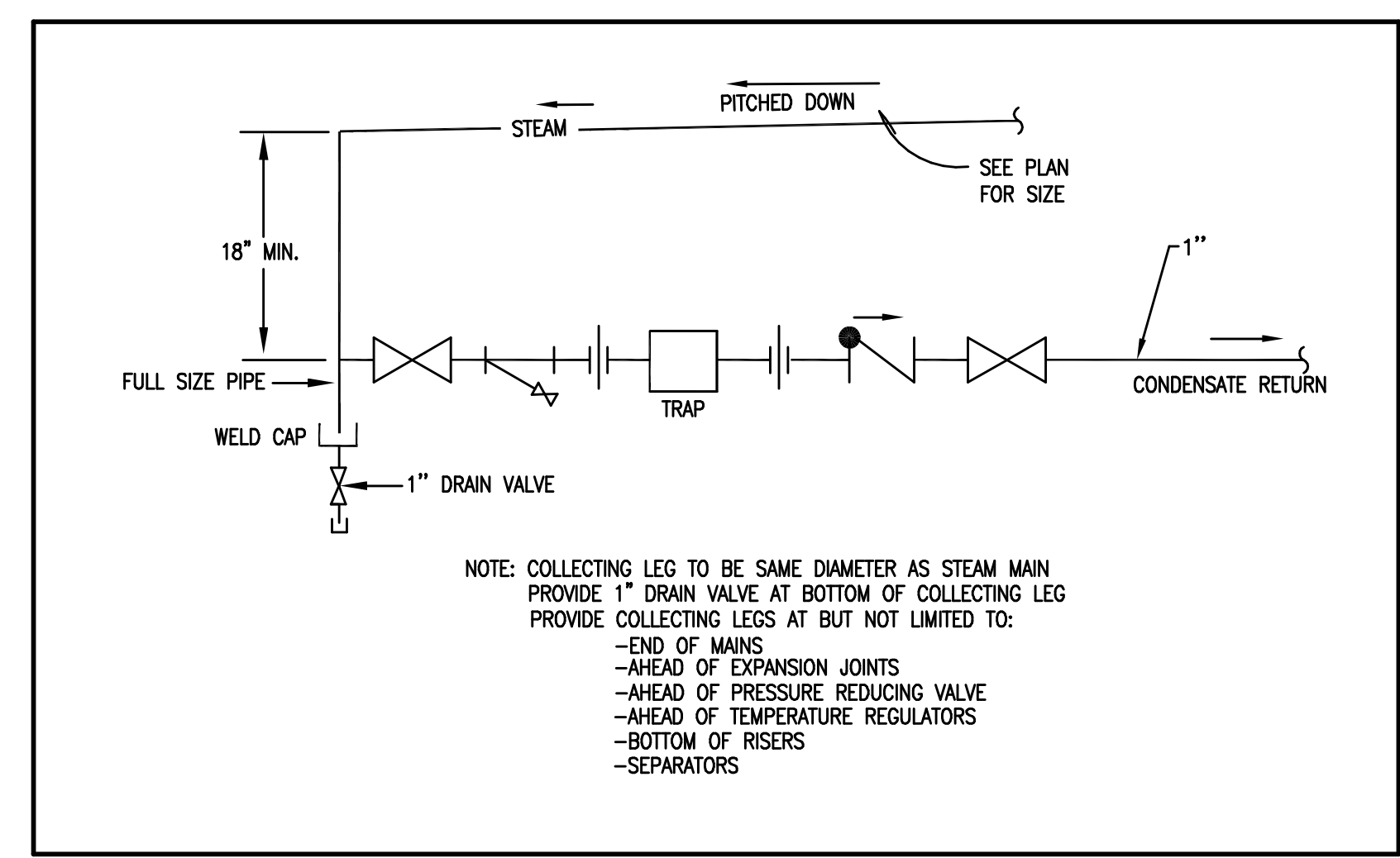
**MECHANICAL DETAILS**

**MU-502**

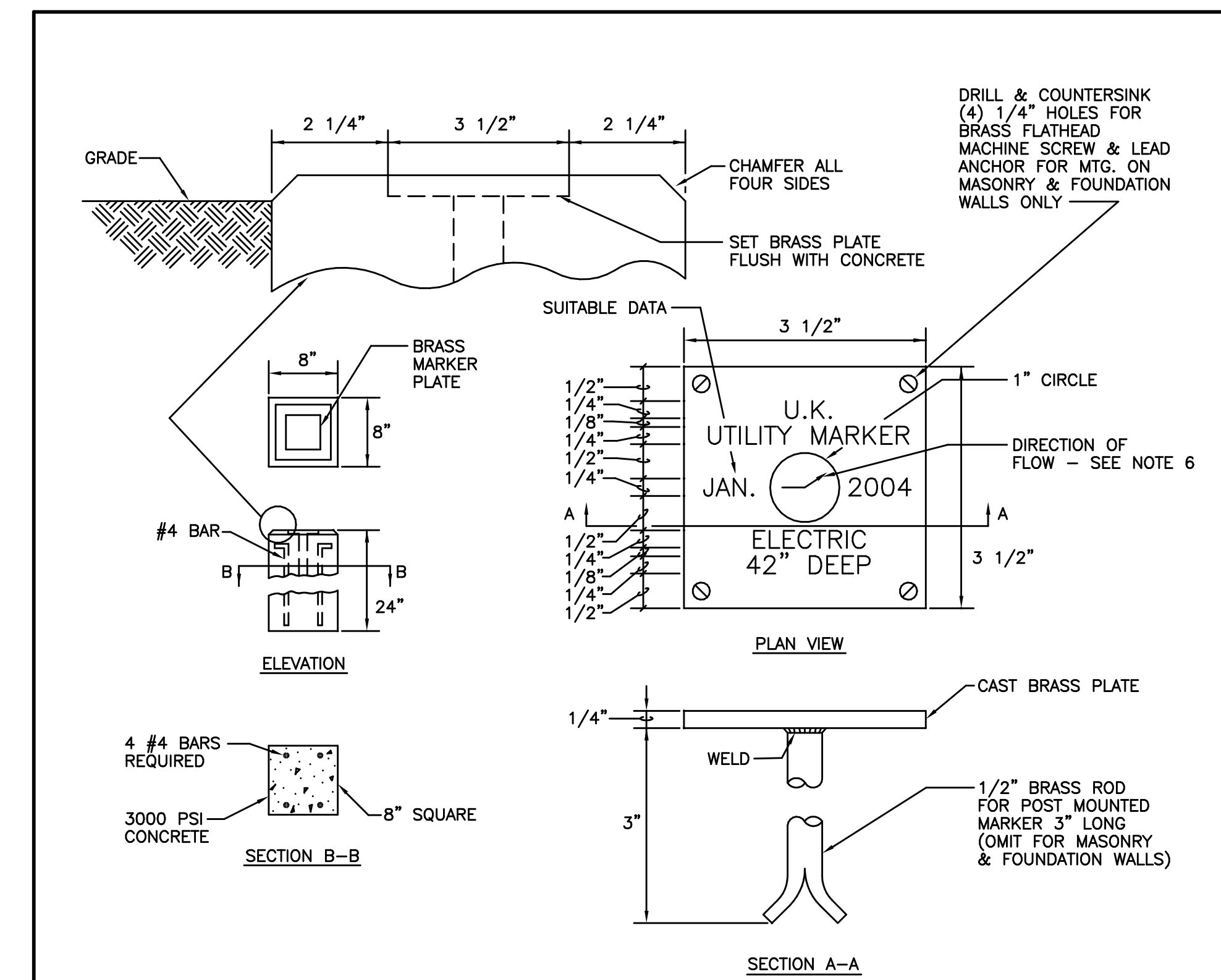
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2 TYP. 3-PIPE STEAM TRENCH  
SCALE: NONE



4 TYPICAL STEAM END OF MAIN DRIP LEG DETAIL  
SCALE: NONE



- NOTES:
- MARKERS SHALL BE LOCATED AT ALL TURNS IN SITE UTILITIES AND AT BUILDING ENTRANCES/EXITS.
  - BRASS MARKERS SHALL BE CAST BY BRUCE FOX COMPANY, NEW ALBANY, INDIANA, OR EQUAL.
  - ALL LETTERING SHALL BE OF THE RAISED TYPE. LETTERING SHOWN ON MARKER IS FOR EXAMPLE ONLY. LETTERING TO BE RAISED 1/8".
  - AT THE CONTRACTOR'S OPTION, ONE MARKER MAY BE USED FOR COMPANION MAINS THAT ARE LOCATED CLOSE TOGETHER SUCH AS STEAM AND CONDENSATE PUMP DISCHARGE PIPING OR CHILLED WATER SUPPLY AND CHILLED WATER RETURN PIPING. PROVIDE ARROW FOR EACH MAIN.
  - CONTRACTOR SHALL FURNISH A COMPLETE LIST FOR APPROVAL OF ALL MARKERS SHOWING NAMES, ARROWS, DEPTH AND DATE.
  - WHEN UTILITY MARKERS ARE INSTALLED OVER LINES AT A POINT OF DIRECTION CHANGE, THE ARROW ON THE MARKERS SHALL BE "ANGLED" AS REQUIRED TO IMPLY THIS ROUTING.

UTILITY SERVICE MARKER DETAIL  
NOT TO SCALE

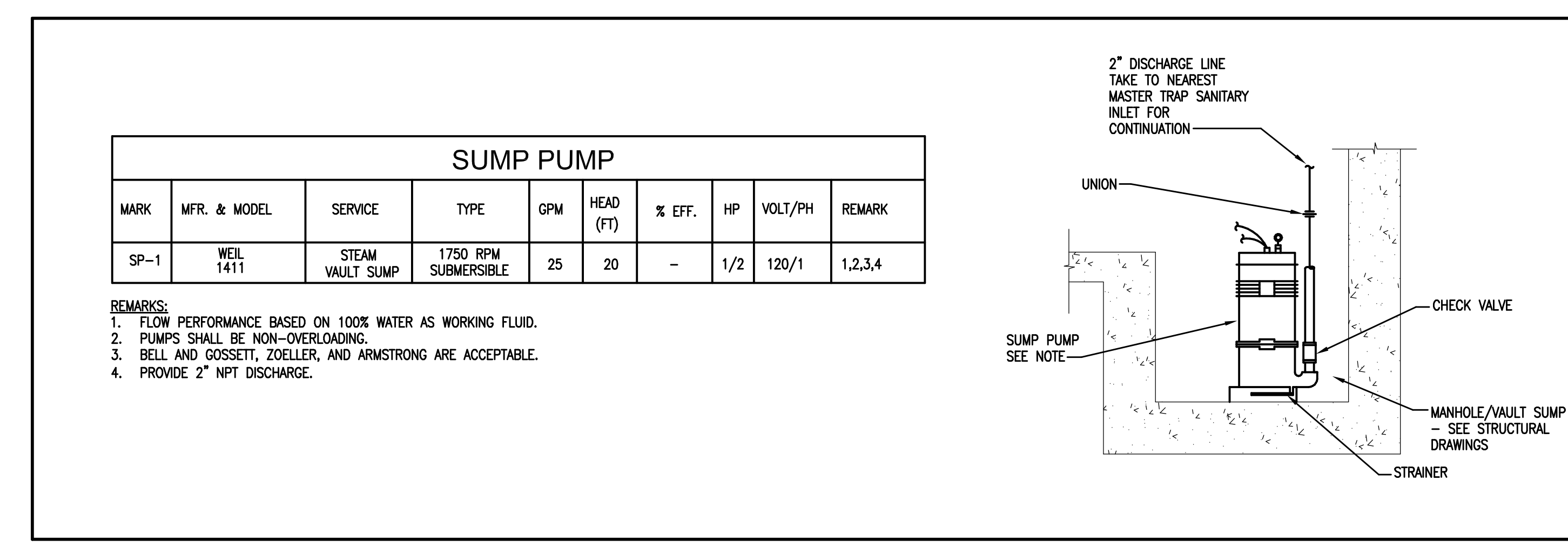
3 SITE UTILITY MARKER DETAIL  
SCALE: NONE

VENTILATION FAN SCHEDULE														
MARK	MFG.	MODEL	SERVICE	TYPE	CFM	ESP	RPM	HP	ELECTRICAL	DRIVE	STARTER/DISC SW.	MAX. SONE	MAX. DBA	REMARKS
EF-1	TWIN CITY	TCPE	UTILITY VAULT	SIWALL PROPELLER	900	0.3"	1725	1/3	120/1	DIRECT	YES	9.1	56	1,2,3,4

- REMARKS:
- PROVIDE BACKDRAFT DAMPER.
  - PROVIDE NEC DISCONNECT AND STARTER IN NEMA 3 ENCLOSURE.
  - EQUIVALENT MANUFACTURERS ARE GREENHECK, TWIN CITY, AND LOREN COOK.
  - FAN TO BE ALL ALUMINUM.

STEAM TRAPS											
MARK	MANUFACTURER	BUILDING	SERVICE	TYPE	MODEL	ORIFICE SIZE	MAX. OP. PRESS.	CONN. SIZE	CAPACITY* LB/HR	DIFF. PRESS.	REMARKS
T-1	ARMSTRONG	VAULT	HPS MAIN	INVERTED BUCKET	981	5/64"	600 PSIG	3/4"	200	155	1,2

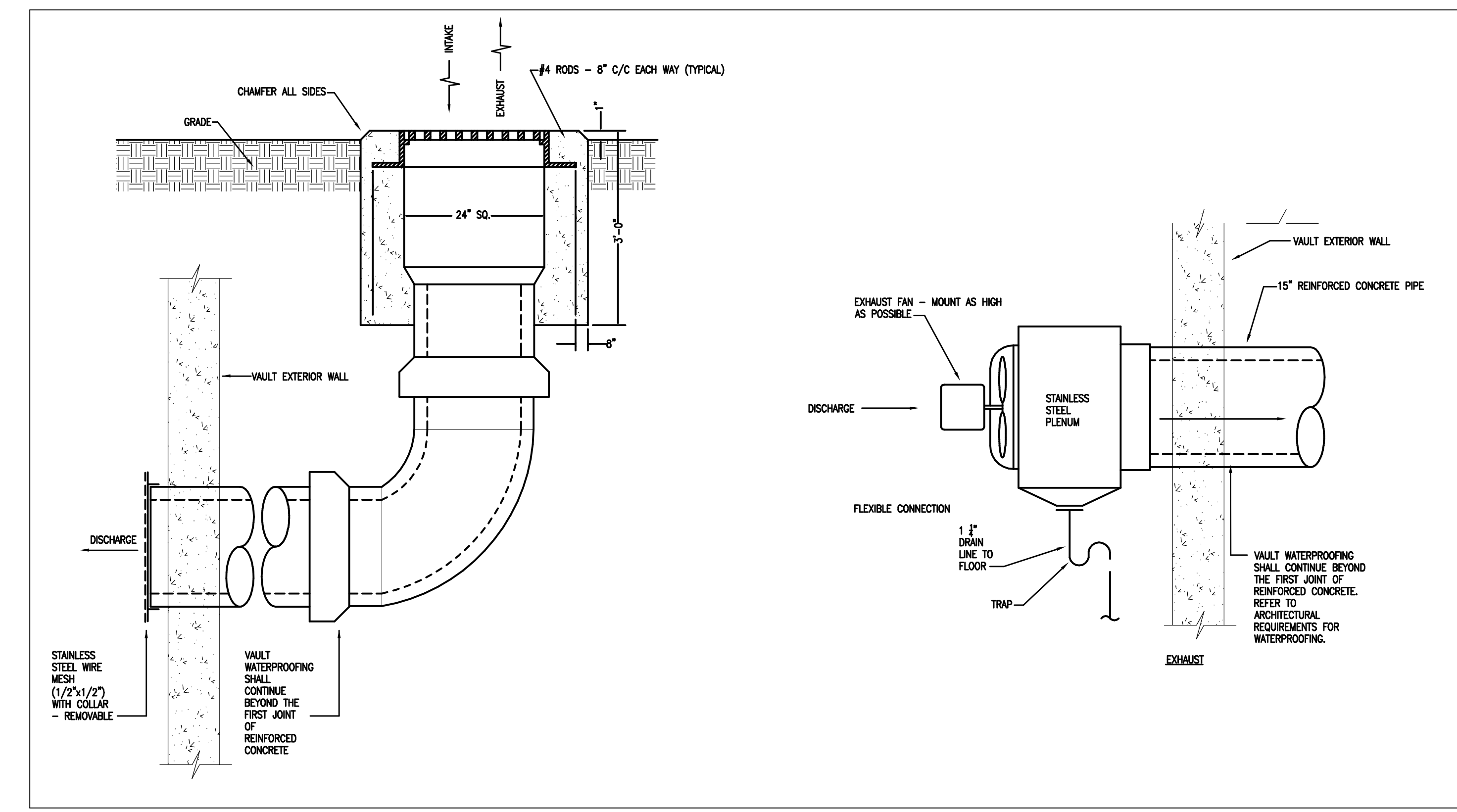
- REMARKS:
- SERVICE: END OF MAIN TRAPS, THERMOSTATIC STEAM TRAP, FORGED STEEL BODY WITH ALL STAINLESS STEEL INTERIORS. INTEGRAL STRAINER RATED FOR 300 PSI AT 500 DEG F.
  - EQUIVALENT MANUFACTURERS ARE HOFFMAN, SPIRAX, AND SARCO.



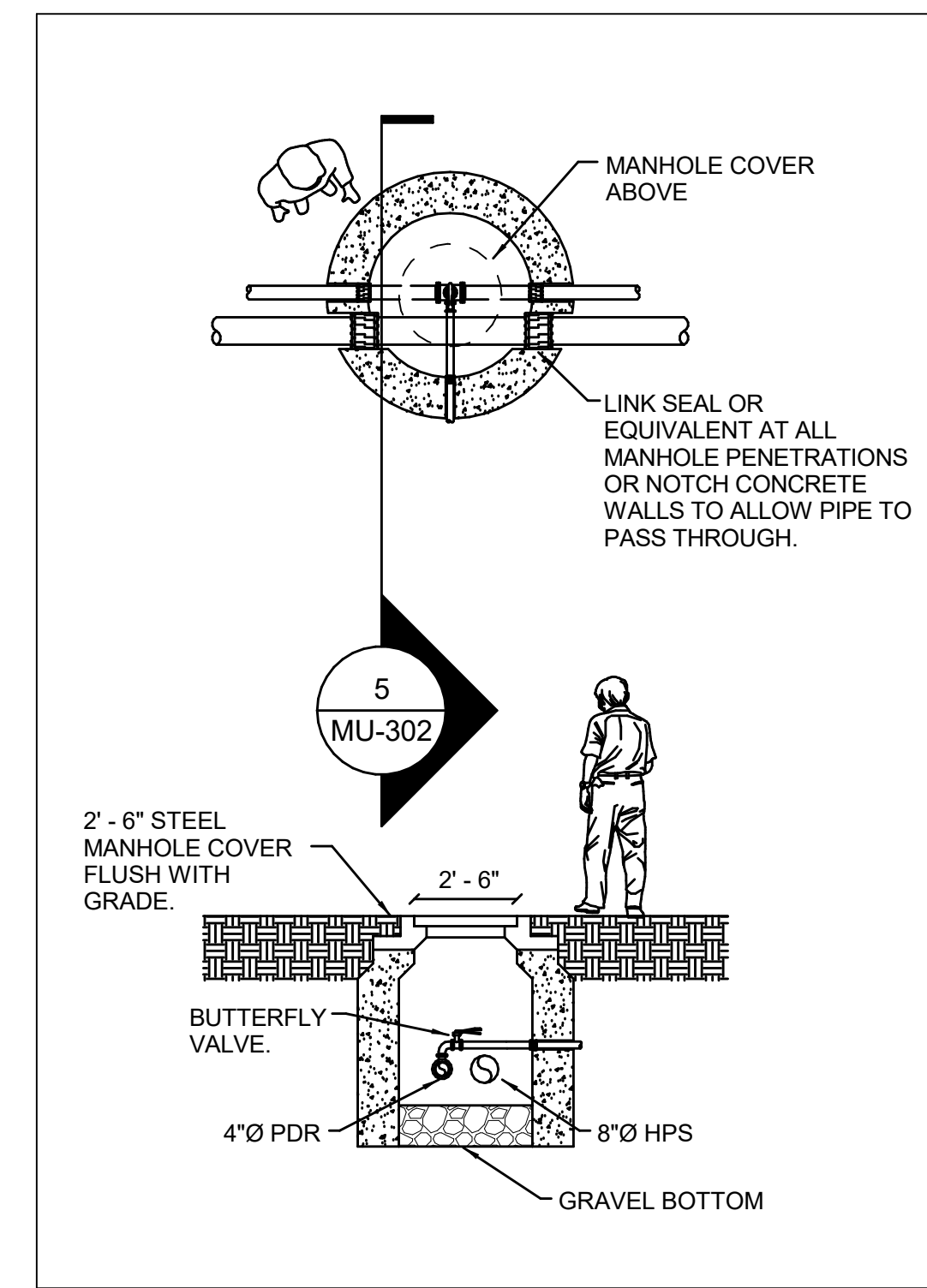
SUMP PUMP									
MARK	MFR. & MODEL	SERVICE	TYPE	GPM	HEAD (FT)	% EFF.	HP	VOLT/PH	REMARK
SP-1	WEIL 1411	STEAM VAULT SUMP	1750 RPM SUBMERSIBLE	25	20	-	1/2	120/1	1,2,3,4

- REMARKS:
- FLOW PERFORMANCE BASED ON 100% WATER AS WORKING FLUID.
  - PUMPS SHALL BE NON-OVERLOADING.
  - BELL AND GOSSETT, ZOELLER, AND ARMSTRONG ARE ACCEPTABLE.
  - PROVIDE 2" NPT DISCHARGE.

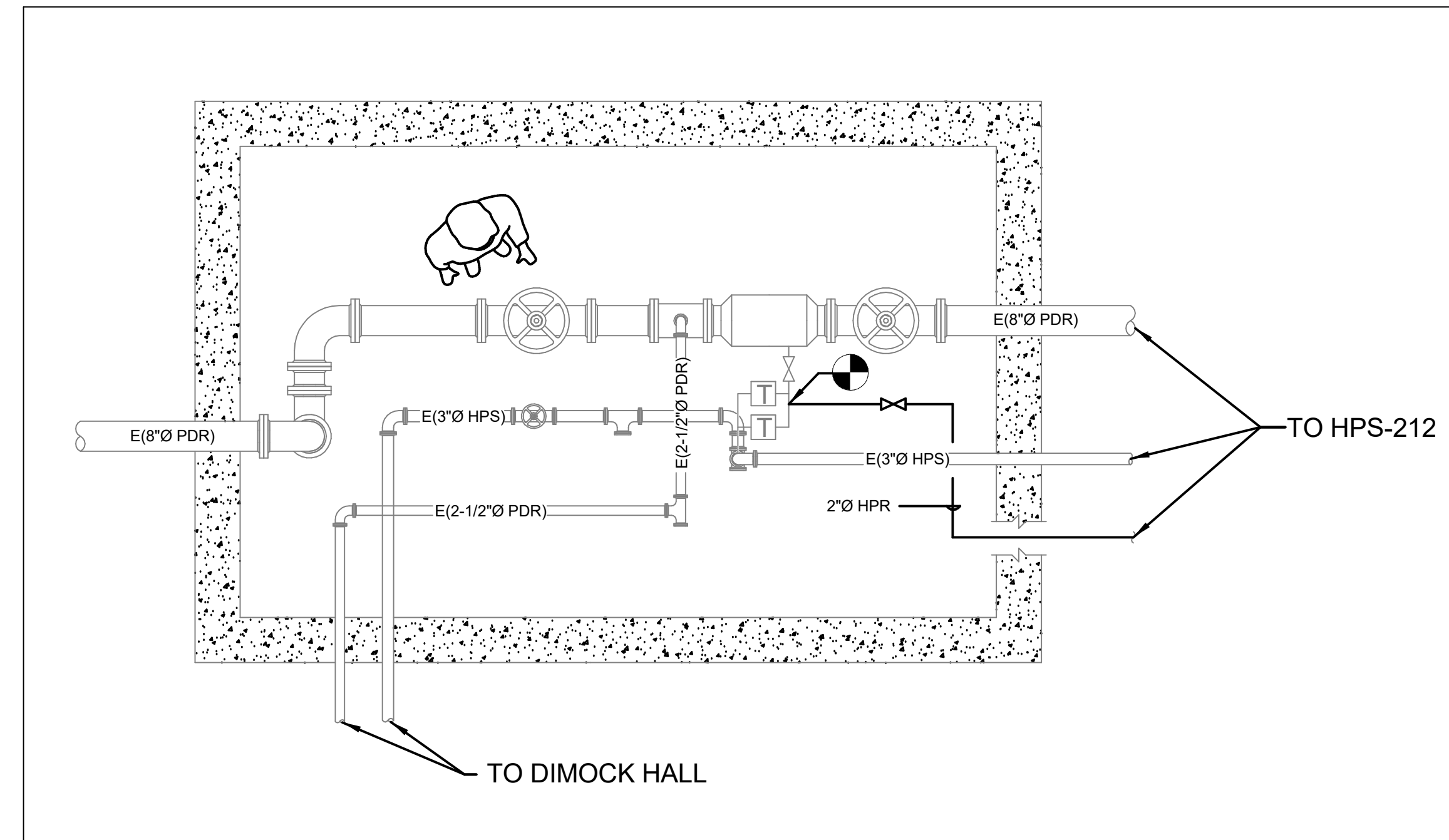
1 VAULT SUMP PUMP DETAIL  
SCALE: NONE



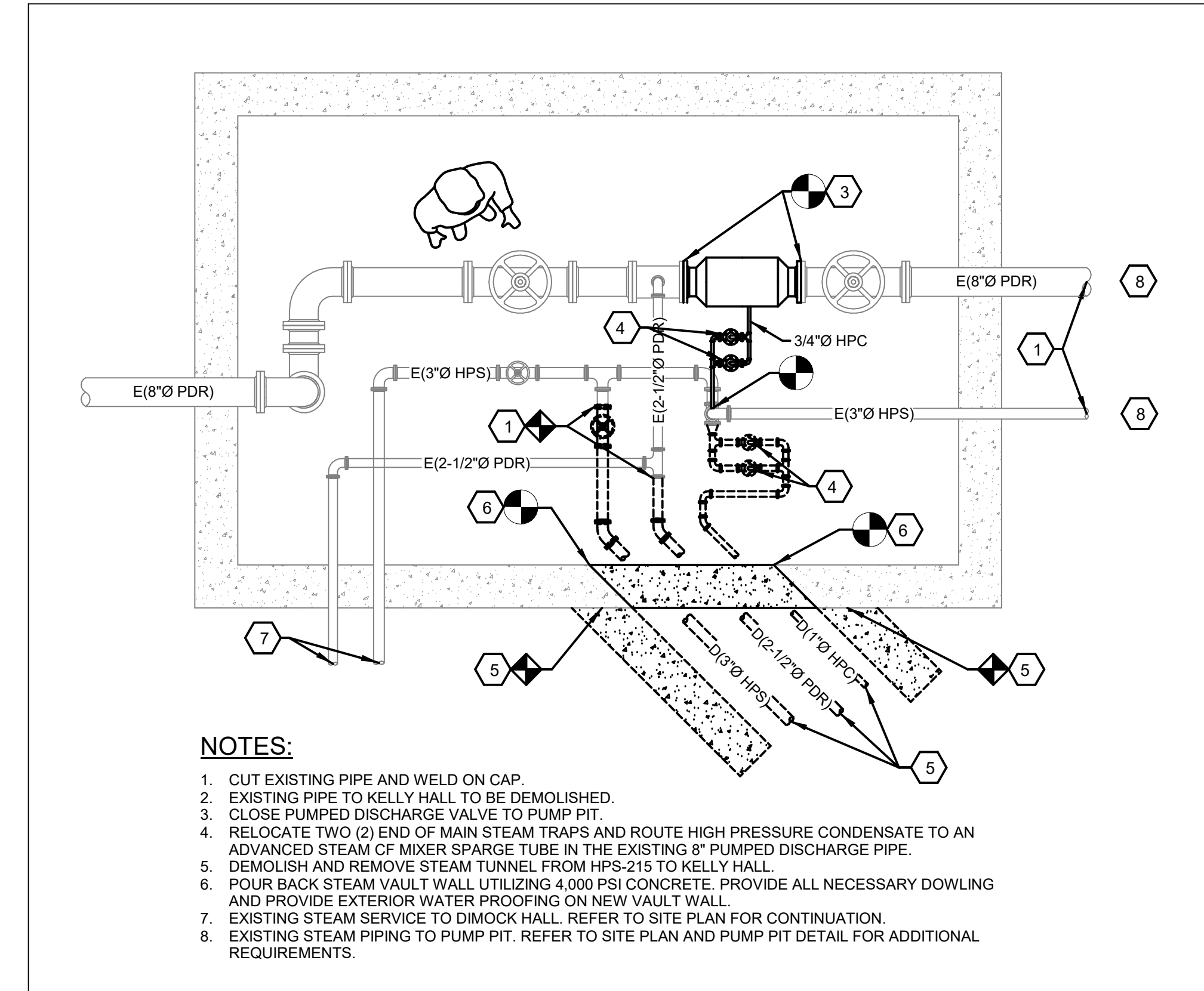
5 VENTILATION EXHAUST DETAIL  
SCALE: NONE



5 STEAM MANHOLE DETAIL  
SCALE: NONE

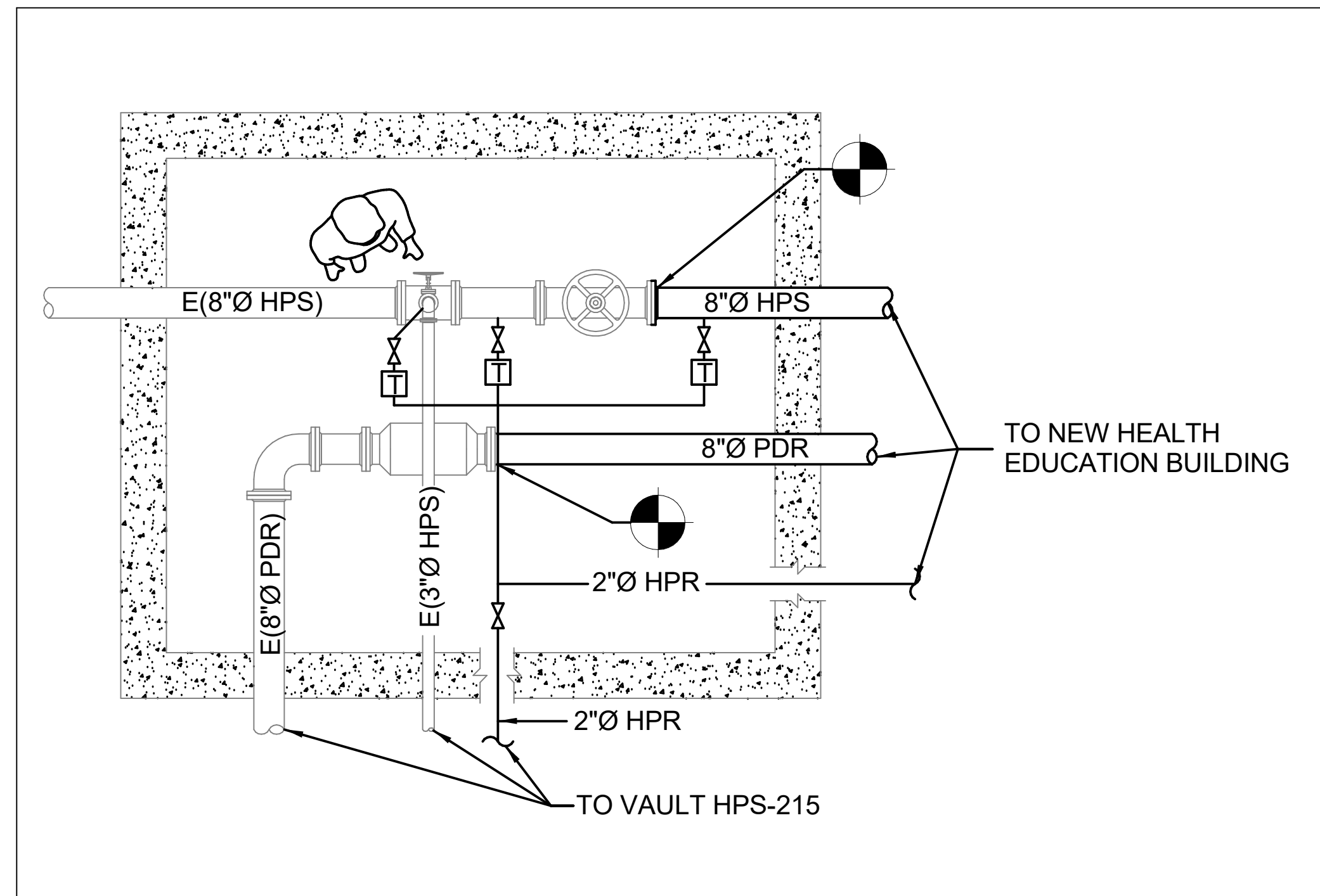


4 VAULT HPS-215 DETAIL - PHASE 2  
SCALE: NONE

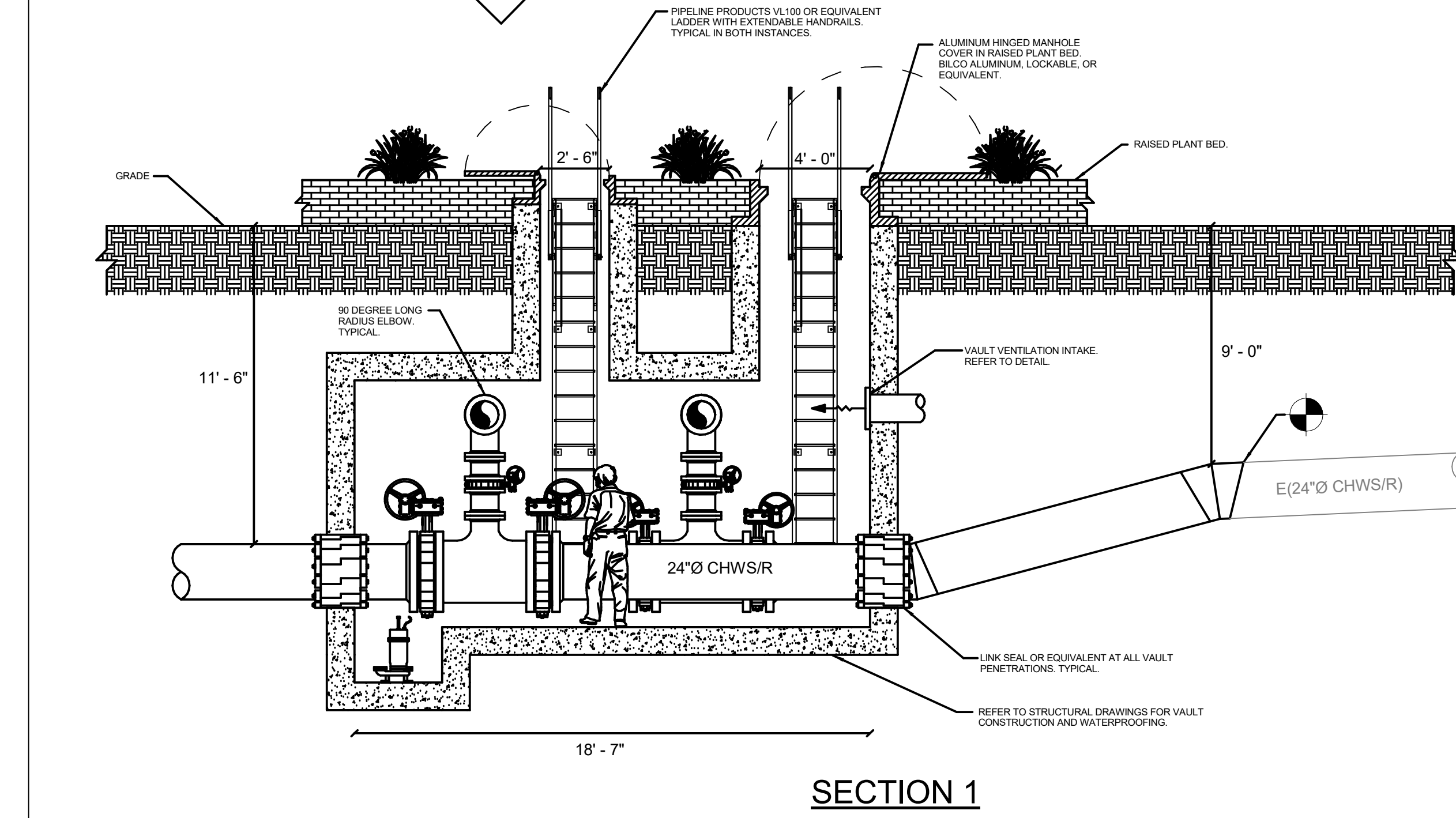
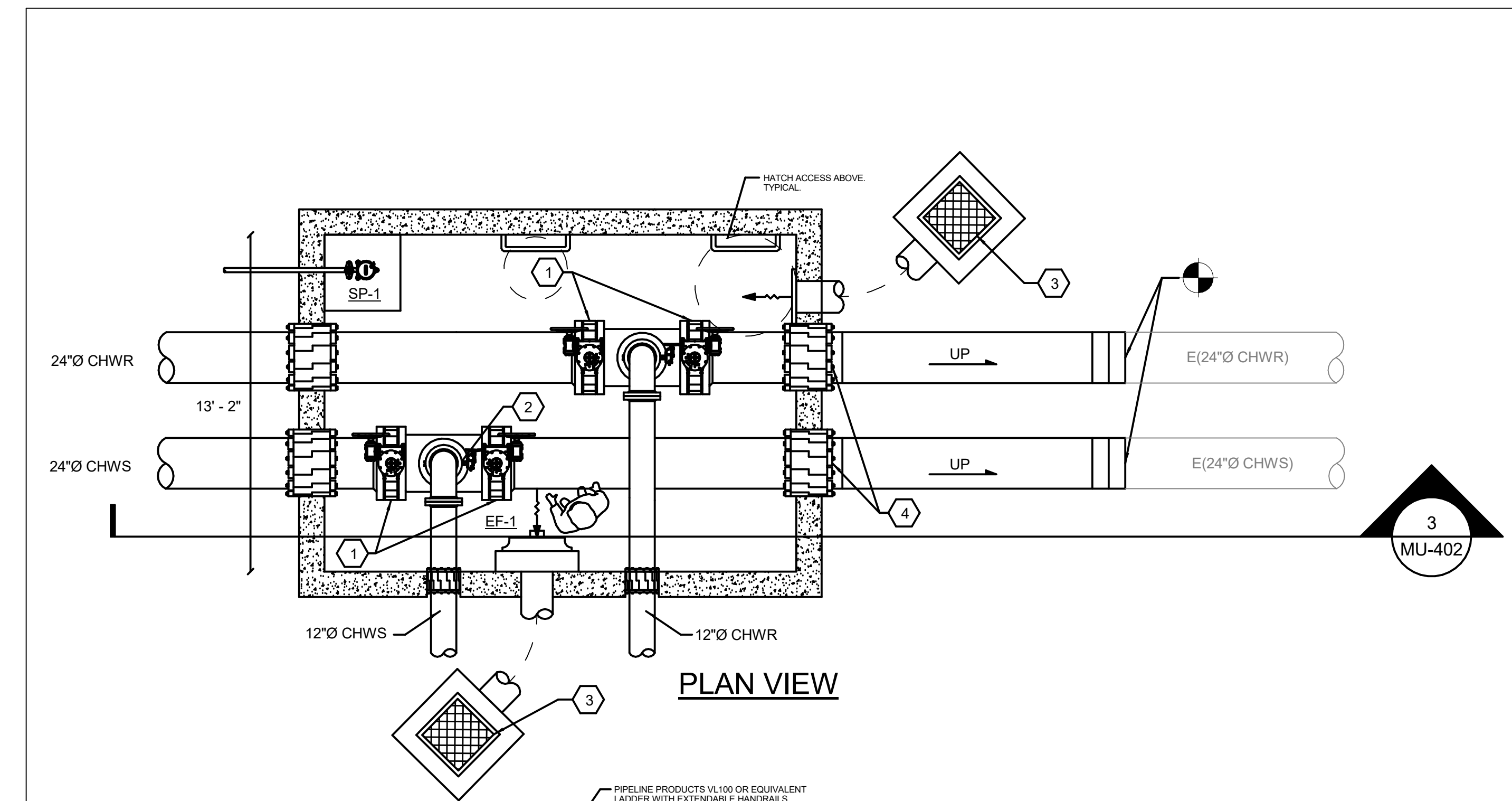


- NOTES:**
- CUT EXISTING PIPE AND WELD ON CAP.
  - EXISTING PIPE TO KELLY HALL TO BE DEMOLISHED.
  - CLOSE PUMPED DISCHARGE VALVE TO PUMP PIT.
  - RELOCATE TWO (2) END OF MAIN STEAM TRAPS AND ROUTE HIGH PRESSURE CONDENSATE TO AN ADVANCED STEAM OF MIXER SPARGE TUBE IN THE EXISTING 8\"/>
  - DEMOLISH AND REMOVE STEAM TUNNEL FROM HPS-215 TO KELLY HALL.
  - POUR BACK STEAM VAULT WALL UTILIZING 4,000 PSI CONCRETE. PROVIDE ALL NECESSARY DOWLING AND PROVIDE EXTERIOR WATER PROOFING ON NEW VAULT WALL.
  - EXISTING STEAM SERVICE TO DIMOCK HALL. REFER TO SITE PLAN FOR CONTINUATION.
  - EXISTING STEAM PIPING TO PUMP PIT. REFER TO SITE PLAN AND PUMP PIT DETAIL FOR ADDITIONAL REQUIREMENTS.

6 VAULT HPS-215 DETAIL - PHASE 1  
SCALE: NONE

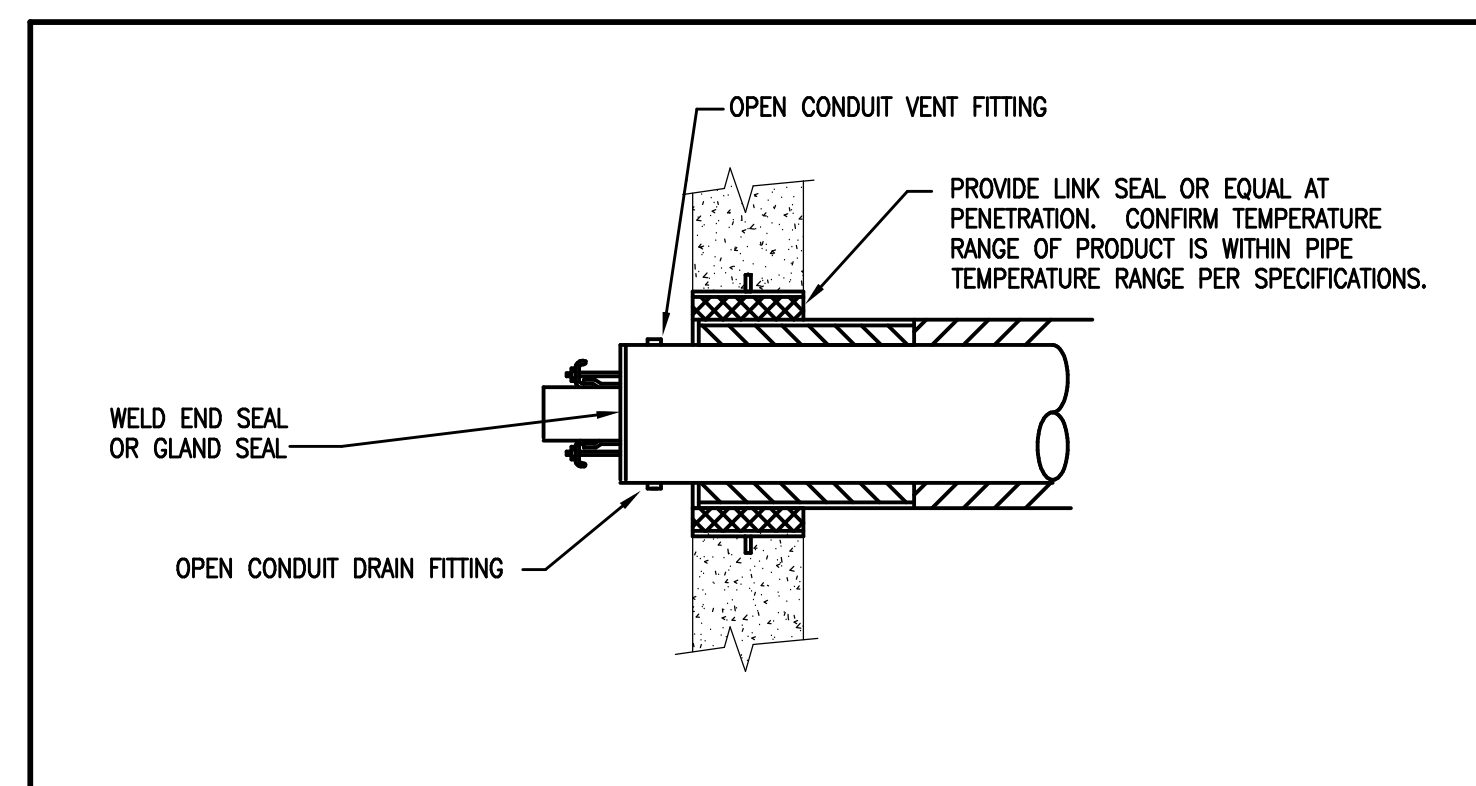


1 HPS-212 DETAIL - PHASE 2  
SCALE: NONE

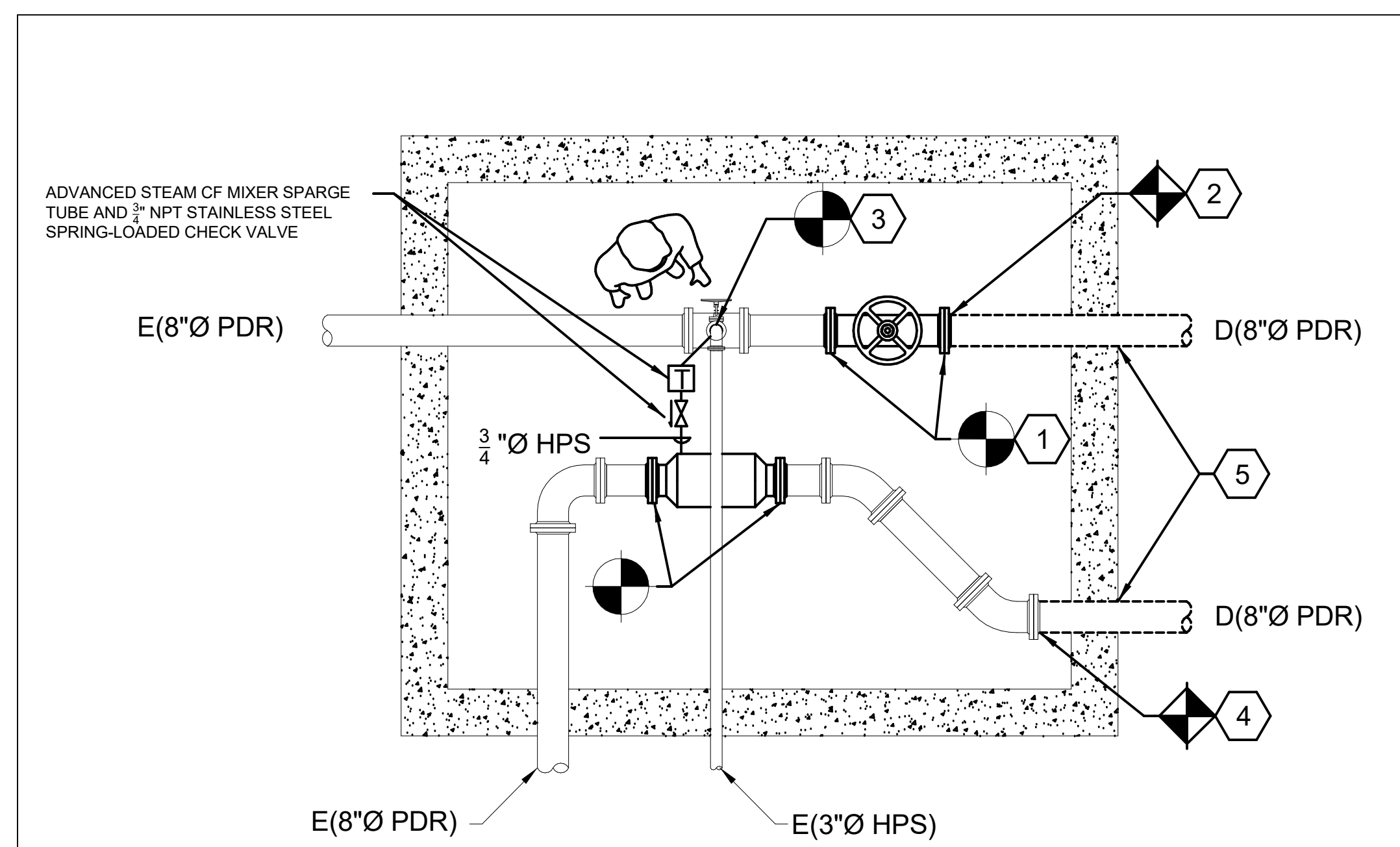


- NOTES:**
- 24\"/>
  - 12\"/>
  - VAULT INTAKE/EXHAUST. REFER TO DETAIL FOR ADDITIONAL REQUIREMENTS. REFER TO PLAN DRAWINGS FOR EXACT LOCATION.
  - LINK SEAL OR EQUIVALENT AT ALL VAULT PENETRATIONS. TYPICAL.

3 NEW CHILLED WATER VAULT  
SCALE: NONE

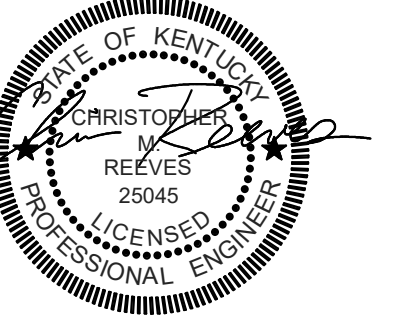


2 HPS VAULT PENETRATION DETAIL  
SCALE: NONE



- NOTES:**
- INSTALL NEW 8\"/>
  - DEMOLISH AND REMOVE HIGH PRESSURE STEAM PIPING TO POINTS INDICATED. NEW ISOLATION VALVE SHALL BE CLOSED AND BLANKED FLANGED.
  - INSTALL FULL SIZE DIRT LEG OF MINIMUM 12\"/>
  - DEMOLISH AND CAP PUMPED DISCHARGE PIPING TO POINTS INDICATED AND CAP.
  - TEMPORARILY SEAL PIPE PENETRATIONS AND MAKE WATER TIGHT.

7 VAULT HPS-212 DETAIL - PHASE 1  
SCALE: NONE



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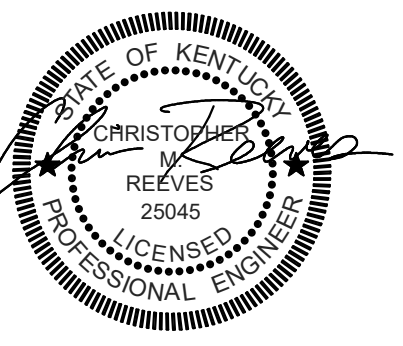
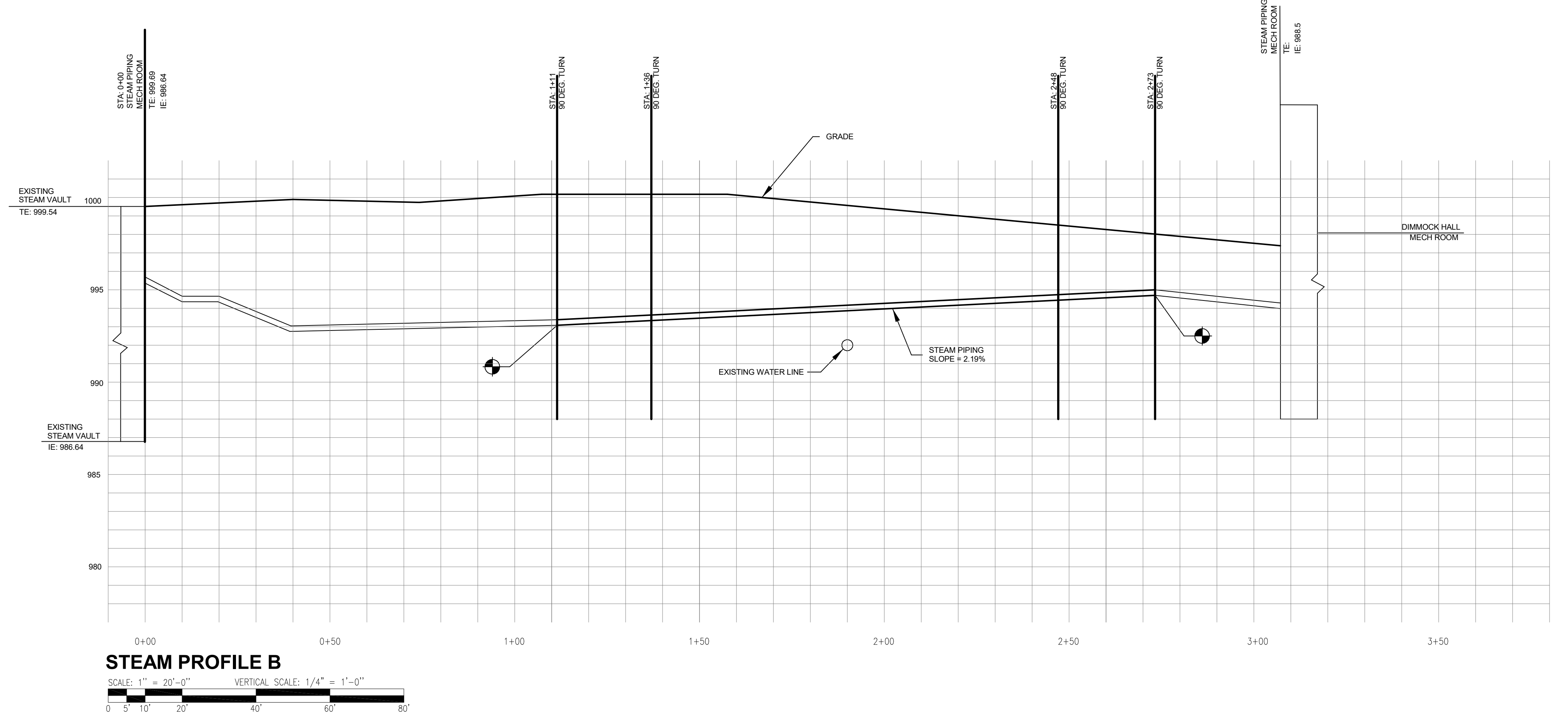
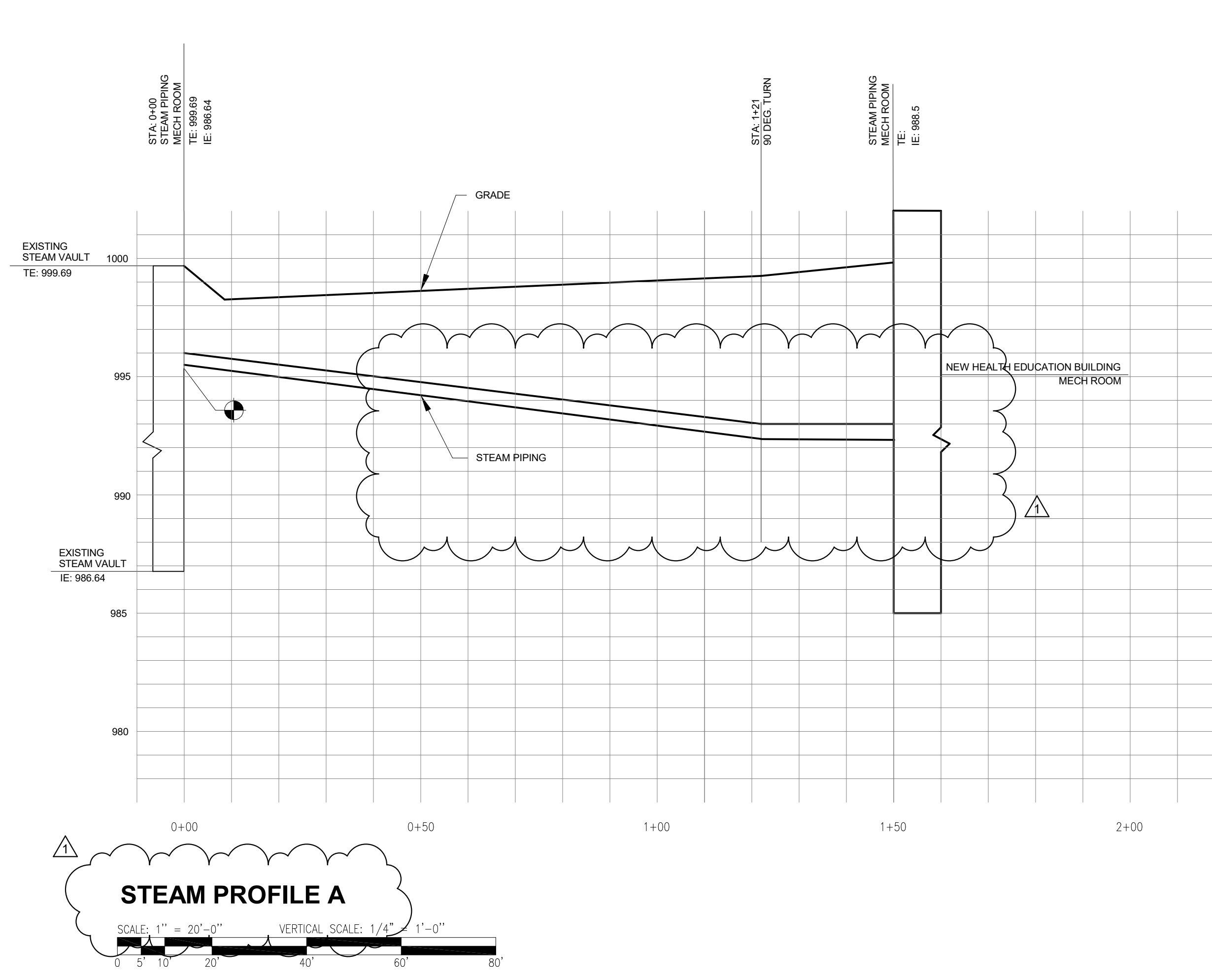
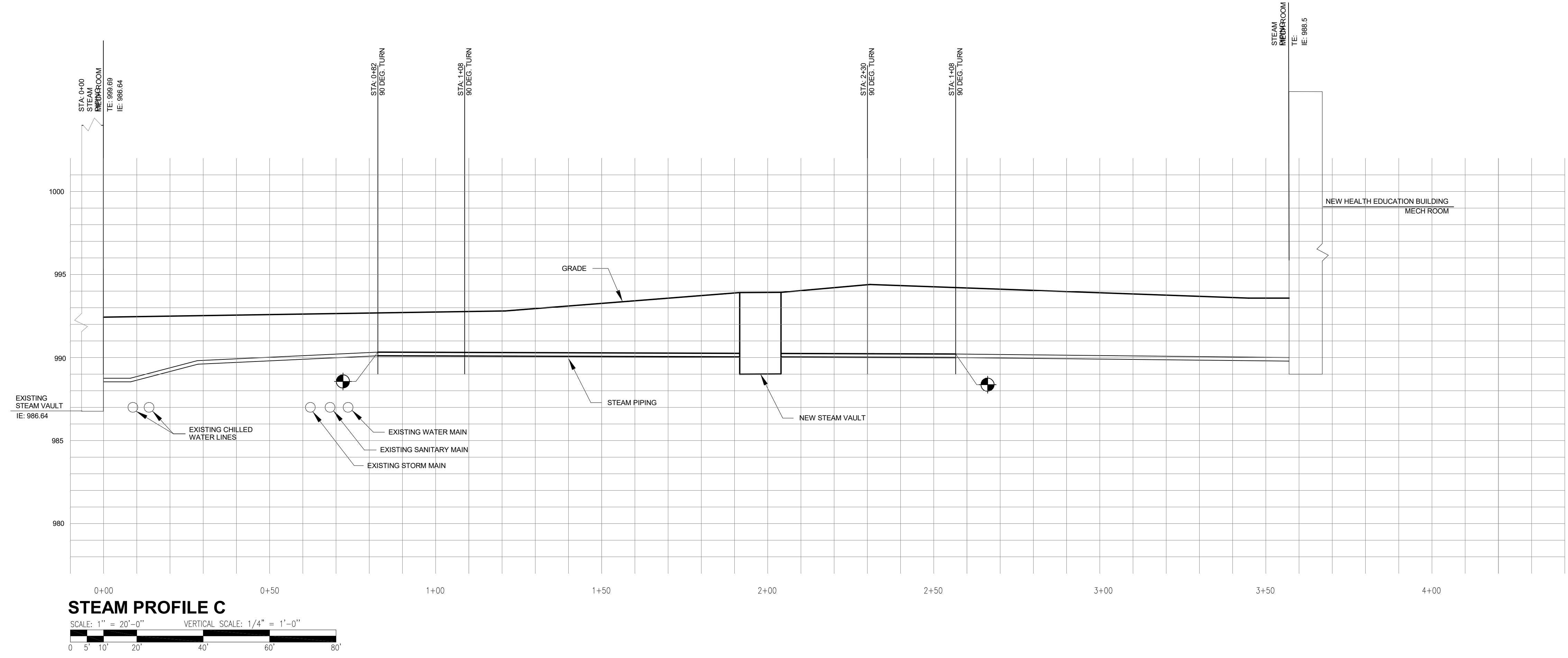


**MECHANICAL**

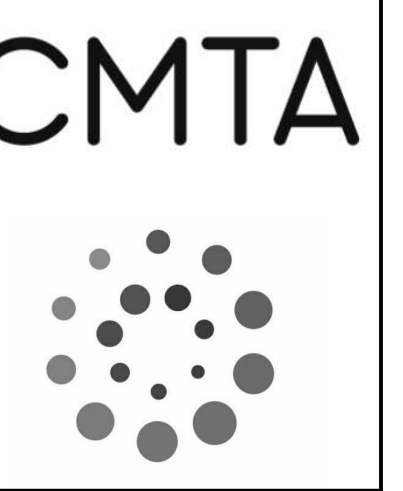
PROJECT	XKSM21	
DATE	3/18/2024	
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	1	4/2/2024

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**MECHANICAL DETAILS**



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**BP-02, SITE UTILITIES**  
**MICHAEL D. RANKIN MD HEALTH EDUCATION BUILDING**  
 UNIVERSITY OF KENTUCKY  
 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



**MECHANICAL**

PROJECT	XKSM21
DATE	3/18/2024

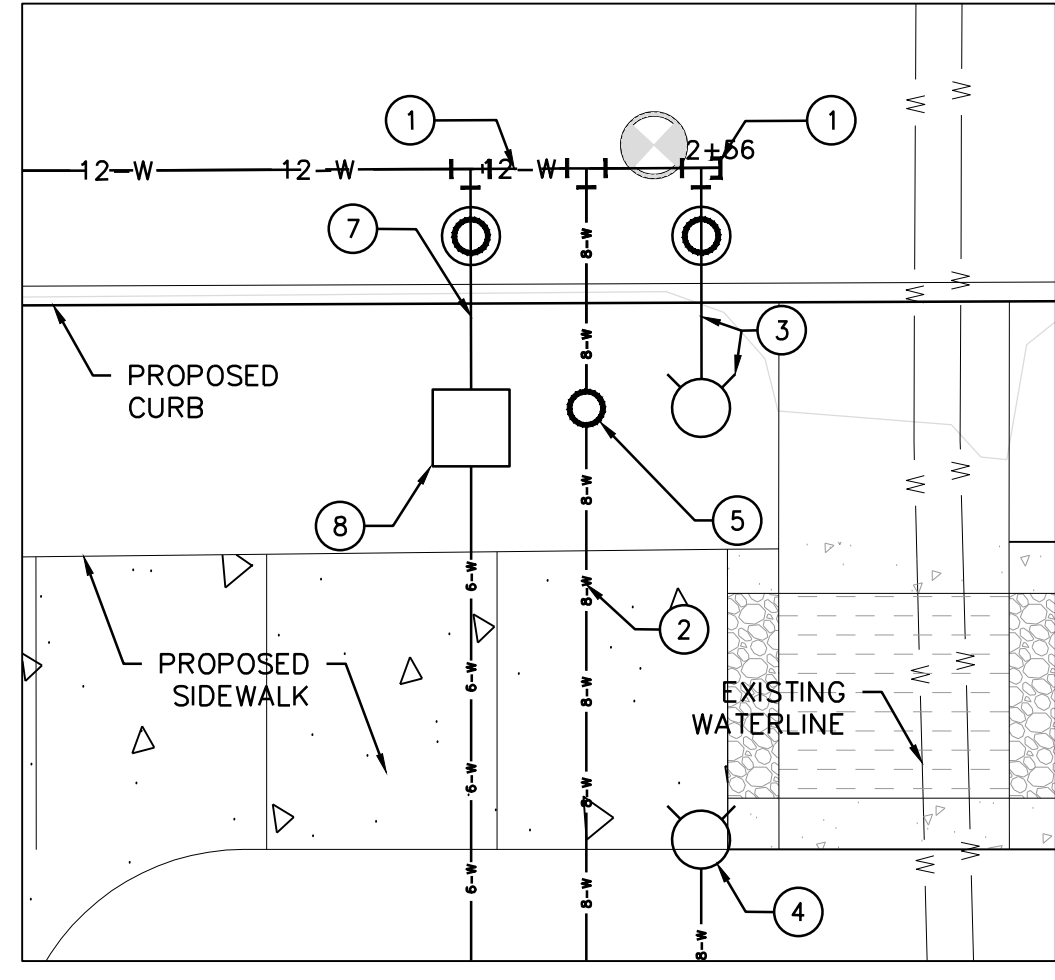
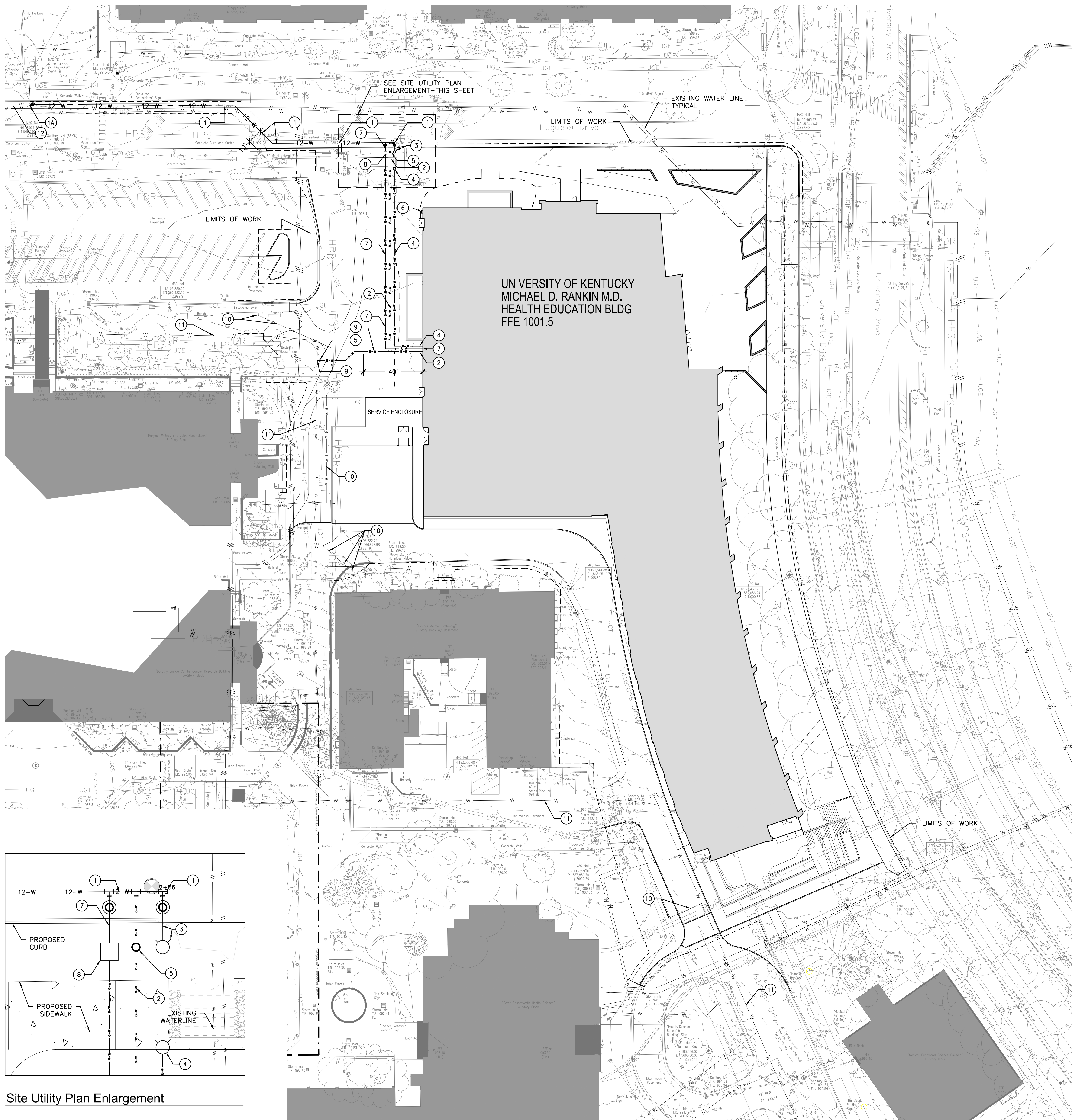
REVISIONS		
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**STEAM PROFILES**

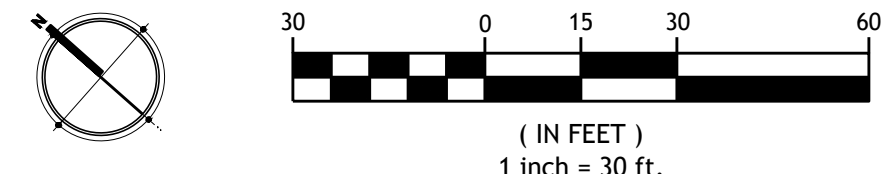
**MU-701**





Site Utility Plan Enlargement

Site Utility Plan



SITE UTILITY NOTES

- THE EXISTING UTILITIES ARE SHOWN ON THE DRAWINGS AS ACCURATELY AS THEY HAVE BEEN PROVIDED TO THE LANDSCAPE ARCHITECT/ENGINEER. THEIR LOCATIONS ARE NOT GUARANTEED. UTILITIES REMOVED AS PART AS BP-01A & BP-01B ARE NOT SHOWN ON THIS PLAN.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND TO HAVE ALL UTILITIES LOCATED PRIOR TO STARTING CONSTRUCTION. THE UTILITIES SHOWN REPRESENT OBSERVABLE FEATURES ALONG WITH INFORMATION PROVIDED ON THE SITE SURVEY AND IS THEREFORE NOT WARRANTED. PRIOR TO CONSTRUCTION THE CONTRACTOR IS TO FIELD VERIFY ALL UTILITY LOCATIONS, SIZES, TYPES, ETC. NEEDED TO COMPLETE THE WORK OF THE CONTRACT.
- ALL UTILITY WORK TO MEET THE LOCAL UTILITY COMPANY AND FIRE DEPARTMENT STANDARDS.
- CONTRACTOR TO PAY ALL ASSOCIATED FEES AS REQUIRED BY LOCAL UTILITY COMPANIES FOR ALL UTILITIES SHOWN ON THIS PLAN INCLUDING WATER, SANITARY SEWER AND/OR GAS SERVICES. THIS INCLUDES TAP/CONNECTION FEES, LICENSE FEES, PERMITTING FEES AND/OR DISCONNECT FEES FOR EXISTING CONNECTIONS, METERS, ETC.
- ALL WATERLINE FITTINGS TO BE BLOCKED SHALL BE WRAPPED WITH HEAVY PLASTIC BEFORE PLACEMENT OF CONCRETE. (MIN. THICKNESS 4 MILS)
- THE WATER LINE SHALL BE PRESSURE TESTED AND DISINFECTED ACCORDING TO AWWA STANDARD C651. FLUSHING VELOCITIES SHALL BE NOT LESS THAN 2.5 FT/SEC.
- WATER LINES SHALL BE ADEQUATELY PLUGGED DURING ANY TIME WHEN THE PIPE IN THE TRENCH IS LEFT UNATTENDED IN ORDER TO PREVENT FOREIGN MATERIALS AND RODENTS FROM ENTERING THE LINE.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL CHANGES OF DIRECTION, TEES, PLUGS, AND OTHER CRITICAL LOCATIONS AS REQUIRED PER THE STANDARD DETAILS INCLUDED ON THIS SHEET.
- ALL PIPE AND FITTINGS SHALL BE HANDLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- PIPE LUBRICANTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS.
- ALL TRENCHING AND BACKFILL SHALL BE IN STRICT ACCORDANCE WITH OSHA SAFETY REGULATIONS.
- ALL WORK TO INSTALL THE DOMESTIC WATER SERVICE TO THE EXISTING BUILDING SHALL COMPLY WITH KENTUCKY DIVISION OF PLUMBING AND THE AUTHORITY HAVING JURISDICTION SPECIFICATIONS. THE LINE SHALL BE PRESSURE TESTED, FLUSHED, AND DISINFECTED PER LOCAL REQUIREMENTS. SHOULD CONTRACTOR BE REQUIRED TO REPAIR WATER LINES AFTER THE DISINFECTION HAS OCCURRED, THE CONTRACTOR SHALL BE REQUIRED TO DISINFECT THE WATER LINES AFTER THE REPAIRS AT NO COST TO THE OWNER.
- ALL PIPE UNDER PAVEMENT SHALL BE BACKFILLED WITH FULL DEPTH CRUSHED STONE.
- PIPE BENDS ARE NOT ALLOWED. CHANGES IN DIRECTION ARE TO BE ACHIEVED WITH APPROPRIATE FITTINGS.
- WATER AND SEWER MAIN SEPARATION TO BE IN ACCORDANCE WITH THE LATEST 10 STATE STANDARDS.
- ALL PUBLIC FACILITIES TO BE DESIGNED AND CONSTRUCTED ACCORDING TO THE AUTHORITY HAVING JURISDICTION SPECIFICATIONS, CURRENT PERSON, GENERAL SPECIFICATIONS TAKE PRECEDENCE OVER ANY DISCREPANCY TO PLAN SET.
- ALL WATER LINE TAP AND METERING FEES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- FIRE HYDRANTS TO BE MUELLER A425 DOUBLE STEAMER WITH TWO 4-1/2 INCH OUTLETS.
- FITTINGS - ALL FITTING AND ACCESSORIES SHALL BE DUCTILE IRON, RATED FOR MINIMUM OF 200 PSI WORKING PRESSURE. THE FITTINGS AND ACCESSORIES SHALL BE NEW AND UNUSED. ALL PIPE FITTING SHALL UTILIZE MECHANICAL JOINT FITTINGS. MECHANICAL JOINTS SHALL CONFORM TO AWWA C111, LATEST EDITION.
- VALVES - ALL VALVES SHALL OPEN BY TURNING COUNTER-CLOCKWISE. VALVES 12 INCHES AND SMALLER SHALL BE RESILIENT SEATED GATE VALVES, NON-RISING STEM WITH "O" RING PACKING SEALS RATED AT 250 PSI MINIMUM WORKING PRESSURE AND CONFORM TO THE APPLICABLE PORTIONS OF AWWA STANDARD C509, LATEST EDITION. TAPPING SLEEVE AND VALVES SHALL BE DESIGNED FOR A MINIMUM WORKING PRESSURE OF 200 PSI. THE TAPPING SLEEVE TOGETHER WITH THE TAPPING VALVE SHALL BE TESTED AT 200 PSI FOR 20 MINUTES WITH NO LOSS OF PRESSURE. FULL GASKET STAINLESS STEEL TYPE TAPPING SLEEVES SHALL BE INSTALLED ON ALL SIZES OF WATER MAINS. DIRECT BURRY VALVES SHALL INCLUDE VALVE BOX AND CONCRETE COLLAR TO ALLOW FOR ACCESS TO THE VALVE FOR OPERATION FROM THE SURFACE.
- SHOULD CONFLICT OR DISCREPANCY OCCUR CONTACT CARMAN @ 859-254-9803.
- PROVIDE WARNING TAPE 12" BELOW GRADE ON ALL UNDERGROUND UTILITIES.
- CONTRACTOR SHALL NEATLY SAWCUT AND REMOVE EXISTING PAVEMENT AS NECESSARY. THE TRENCH AND ALL PAVEMENT SHALL BE RETURNED AS DESCRIBED IN SITE DETAILS.
- ALL TRENCHING SHALL BE DONE AT THE REQUIRED MINIMUM DEPTHS PER REQUIREMENTS OR CODES OF UTILITY COMPANIES, LOCAL, STATE OR FEDERAL REQUIREMENTS. THE TRENCHING DEPTHS SHALL BE DETERMINED FROM THE FINISH SURFACE/GRADE/ELEVATION ALONG TRENCHING ROUTE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE TRENCHING DEPTHS WITH THE APPROVED GRADING PLAN TO ENSURE THAT DEPTHS ARE REFERENCED TO PROPOSED FINISHED GRADES OF THE SITE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED INSPECTIONS OF CONDUIT, UTILITY PIPE INSTALLATION BY ANY APPLICABLE AGENCY OR JURISDICTION PRIOR TO ENCASUREMENT OF CONDUIT/PIPES AND/OR BACKFILL OF TRENCHING.
- THE SITE UTILITY PLAN DOES NOT SPECIFICALLY REFERENCE OR SPECIFY SHORING THAT MAY BE REQUIRED DURING SITE DEMOLITION SO THAT ADJACENT AREAS ARE PROTECTED FROM DAMAGE, COLLAPSE, ETC. SHOULD THE CONTRACTOR DETERMINE THAT SHORING IS REQUIRED FOR PROTECTION OR TO PREVENT ENCRoACHMENT OF DEMOLITION OUTSIDE OF PROJECT LIMITS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING PROPER SHORING MEANS, METHODS AND DESIGN PER LOCAL REGULATIONS OR PER REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION INCLUDING THE SHORING TYPE AND IF NECESSARY THE PREPARATION OF SHORING PLANS BY A LICENSED STRUCTURAL ENGINEER PER OSHA REQUIREMENTS.
- SITE SPECIFIC SHOP DRAWINGS SHALL BE SUBMITTED FOR ANY AND ALL MANUFACTURED EQUIPMENT OR COMPONENTS ASSOCIATED WITH SITE UTILITIES.

CODED SITE UTILITY NOTES

KEY	DESCRIPTION
1	KENTUCKY AMERICAN WATER CO. (KAWC) TO INSTALL NEW MAIN ALONG HUGUELET DRIVE FROM JACOBS SCIENCE BUILDING TO PROPOSED HEALTH EDUCATION BUILDING. KAWC TO MAKE TWO TAPS FOR 8" FIRE AND 4" DOMESTIC SERVICES. OWNER TO PAY KAWC DIRECTLY FOR KAWC WORK IN RIGHT-OF-WAY, UP TO THE POST INDICATOR VALVE. CONTRACTOR TO COORDINATE WITH KAWC.
1A	BEGINNING OF NEW KENTUCKY AMERICAN WATER CONNECTION
2	8" FIRE WATER LINE TO CONNECT TO NEW BUILDING - WATERLINE WITHIN 40' OF BUILDING MECHANICAL ROOM PENETRATION SHALL HAVE A MINIMUM OF 6'-0" OF COVER.
3	NEW FIRE HYDRANT ASSEMBLY BY KAWC, PAID DIRECTLY BY OWNER. FIRE HYDRANT SHALL COMPLY WITH AWWA C-502-80, LATEST EDITION AND THE LFUGC FIRE DEPARTMENT. CONTRACTOR TO COORDINATE WITH KAWC.
4	FIRE DEPARTMENT CONNECTION AND 8" LINE FROM BUILDING MECHANICAL ROOM BY CONTRACTOR - WATERLINE WITHIN 40' OF BUILDING MECHANICAL ROOM PENETRATION SHALL HAVE A MINIMUM OF 6'-0" OF COVER.
5	POST INDICATOR VALVE (PIV) BY CONTRACTOR, SHALL MEET LEXINGTON FIRE DEPARTMENT STANDARDS. PIV SIGN TO BE INCLUDED
6	TEST HEADER ON BUILDING WALL BY CONTRACTOR. COORDINATE WITH FIRE SPRINKLER SYSTEM CONTRACTOR.
7	6" DOMESTIC WATER SERVICE TO CONNECT TO NEW BUILDING BY CONTRACTOR - WATERLINE WITHIN 40' OF BUILDING MECHANICAL ROOM PENETRATION SHALL HAVE A MINIMUM OF 6'-0" OF COVER.
8	6" DOMESTIC SERVICE WITH 6" METER PAID BY CONTRACTOR AND INSTALLED BY KAWC. VAULT IS PROVIDED BY CONTRACTOR PER KAWC STANDARDS.
9	8" FIRE WATER LINE TAPPED FROM EXISTING 8" UK WATER MAIN TO PROVIDE (2) SEPARATE TAPS FOR FIRE SUPPRESSION OF HIGH-RISE BUILDING AS REQUIRED BY BUILDING CODE.
10	FOR REFERENCE ONLY. SEE C400 UTILITY PLAN FOR WATER RELOCATION
11	EXISTING UK 8" WATER MAIN
12	EXISTING KAWC 12" WATER MAIN

KAWC SPECIAL NOTES

ALL WORK IS TO BE DONE IN ACCORDANCE WITH KENTUCKY AMERICAN WATER PIPELINE INSTALLATION SPECIFICATIONS AND THE APPLICATION FOR SPECIAL CONNECTION AND IS SUBJECT TO INSPECTION AND APPROVAL OF KENTUCKY AMERICAN WATER PRIOR TO BACKFILLING.

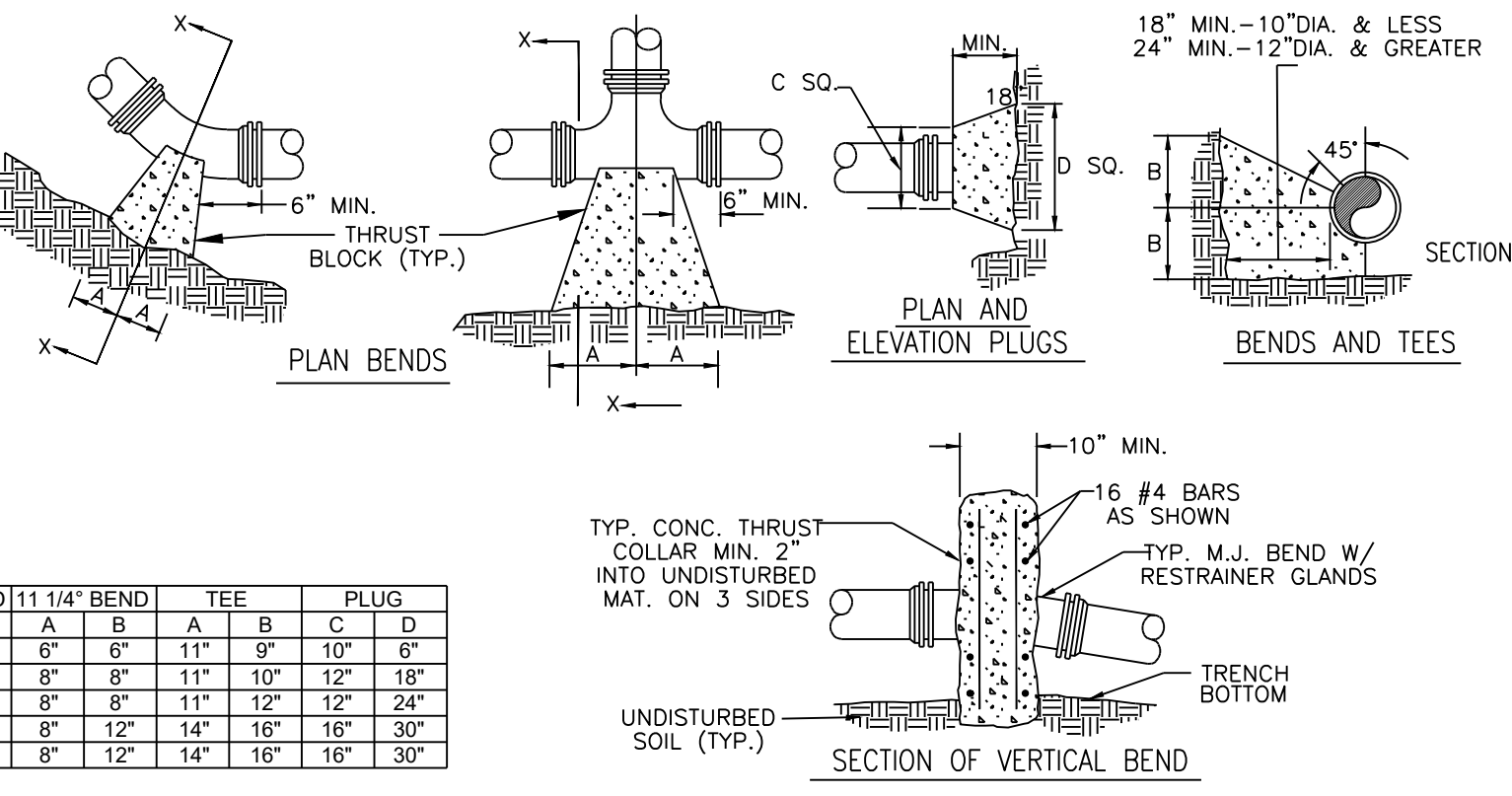
ALL WATER LINES SHALL BE DUCTILE IRON.

UTILITY CONTACTS

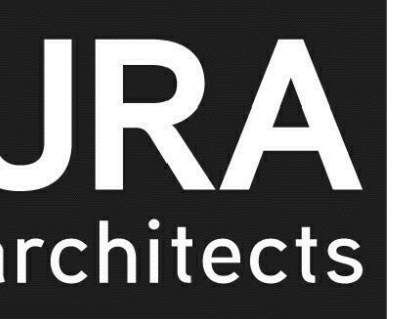
WATER: KENTUCKY AMERICAN WATER COMPANY  
 MR. TYLER SINGER (859) 268-6385  
 2300 RICHMOND ROAD  
 LEXINGTON, KENTUCKY 40502-1308

GENERAL NOTES:

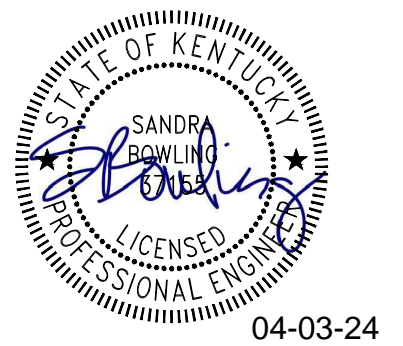
- FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
- FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
- GLANDS & BOLTS SHALL BE PROTECTED FROM CORROSION BY CHEETING WHEN POURING THRUST BLOCKS.
- ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
- THRUST BLOCKS WITH "D" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINT JOINTS ARE REQUIRED.
- IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED.



TYPICAL THRUST BLOCK DETAILS  
SCALE: N/A



3225 Summit Square Place, Suite 200  
Lexington, Kentucky 40509  
859.252.6781



RESERVED FOR AHJ STAMP



BP-02  
**MICHAEL D RANKIN MD HEALTH EDUCATION BUILDING**  
 UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



CIVIL

PROJECT	202170
DATE	02.19.24
REVISIONS	
No.	Description
1	Addendum #3
	Date
	04.02.24

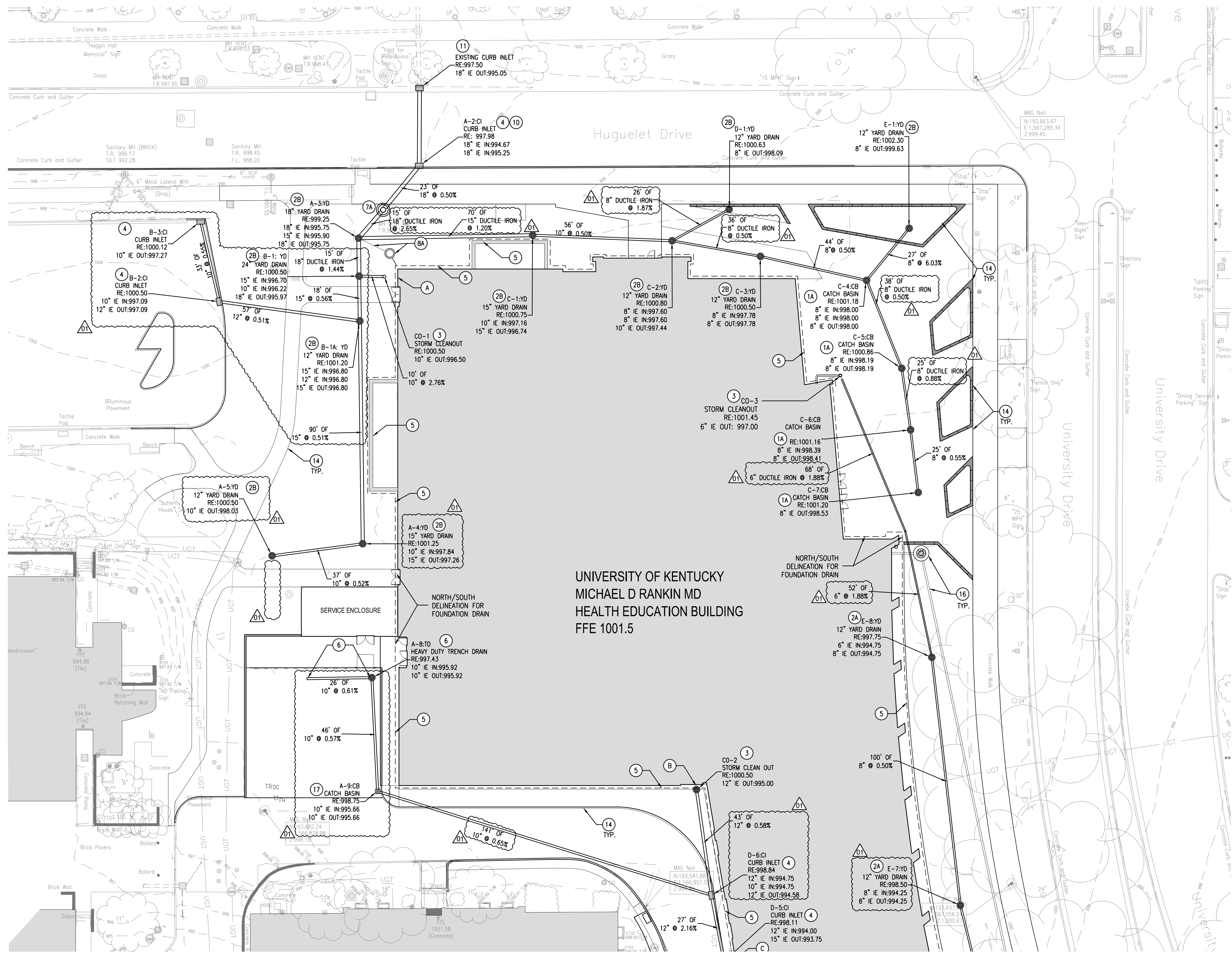
JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ANOTHER OR IN PART FOR ANY PURPOSE OTHER THAN FOR THE PROJECT FOR WHICH THEY WERE PREPARED. THE CLIENT AGREES TO NOTIFY JRA ARCHITECTS IMMEDIATELY IN WRITING IF ANY OTHER PROJECT IS IDENTIFIED THAT MAY BE SIMILAR TO THIS PROJECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR RELIANCE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

SITE WATER UTILITY PLAN

C401

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Site Drainage Plan



GENERAL SITE DRAINAGE NOTES

1. ALL SPOT ELEVATIONS INDICATE FINISH GRADE OF SURFACE. ADJUSTMENTS MUST BE MADE TO ESTABLISH GRADES OF SUB-BASE OR SUBGRADE. SPOT ELEVATIONS ARE INCLUSIVE OF ANY LANDSCAPE MULCH REQUIRED.
2. PRIOR TO CONSTRUCTION OR DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES, SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITIES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
3. ALL EXCESS EXCAVATED MATERIAL, OTHER THAN TOPSOIL, IS TO BE REMOVED FROM THE SITE AT CONTRACTOR'S COST.
4. UNLESS OTHERWISE NOTED, ALL TREES AND VEGETATION SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE FOLIAGE, BRANCHES OR ROOTS OF EXISTING TREES TO REMAIN.
5. SHOULD CONTRACTOR ENCOUNTER ROCK EXCAVATION, THE ROCK SHALL BE REMOVED TO A MINIMUM DEPTH OF SIX INCHES BELOW BOTTOM OF UTILITIES UNLESS OTHERWISE SPECIFIED IN CONTRACT DOCUMENTS INCLUDING THE GEOTECHNICAL REPORT.
6. ELEVATIONS AND CONTOURS ON THIS PLAN ARE REFERENCED TO MEAN SEA LEVEL DATUM AND BENCHMARKS REFERENCED ON THE PLAN.
7. IT SHALL BE SOLELY THE CONTRACTOR'S RESPONSIBILITY TO VERIFY IF ROCK EXCAVATION FOR MASS GRADING OR TRENCHING IS REQUIRED. ALL EXCAVATION IS UNCLASSIFIED. THERE WILL BE NO PAYMENT FOR ROCK EXCAVATION.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXCAVATION QUANTITIES.
9. IT IS THE DESIGN INTENT FOR ALL WATER TO BE DIRECTED AWAY FROM THE PROPOSED AND EXISTING BUILDINGS.
10. REFER TO THE SITE SURVEY FOR EXISTING SPOT ELEVATIONS.
11. EXISTING STORM SEWER RIMS AND INVERTS ARE TAKEN FROM THE SITE SURVEY AND SHOULD BE CROSS-REFERENCED WITH THE SITE SURVEY. REFER TO SITE SURVEY FOR ALL EXISTING ON-SITE STORM SEWER INFORMATION.
12. CONTRACTOR IS RESPONSIBLE FOR DESIGN OF SHORING AND UNDERPINNING OF UTILITIES OR STRUCTURES AT LOCATIONS INDICATED. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS PREPARED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE COMMONWEALTH OF KENTUCKY AS REQUIRED BY THE OCCUPATIONAL SAFETY HEALTH ADMINISTRATION. THE NEED FOR, MEANS AND METHODS FOR SHORING ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL NOTE THAT TEMPORARY CONSTRUCTION ACTIVITY MAY DE-STABILIZE SUBGRADES FOR BUILDING OR PAVED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS AND METHODS COST FOR THE TEMPORARY USE OF AREAS FOR CONSTRUCTION ACTIVITY AND SHALL ALSO BE RESPONSIBLE FOR RE-STABILIZING AREAS SHOULD TEMPORARY CONSTRUCTION ACTIVITY CONTRIBUTE TO THE NEED TO STABILIZE BUILDING OR PAVEMENT AREAS.
13. ELEVATIONS OF ALL RIMS, STRUCTURE COVERS, ACCESS DOORS AND TOPS OF ALL UTILITY VAULTS, MANHOLES, VENTS, VALVE BOXES, ETC. SHALL BE ADJUSTED TO MEET PROPOSED SURROUNDING GRADES.
14. BEFORE STARTING SITE EXCAVATION, CONTRACTOR SHALL BE FAMILIAR WITH THE REPORT OF GEOTECHNICAL EXPLORATION AND COMPLY WITH RECOMMENDATION PROVIDED FOR SUBGRADE CONDITIONS.
15. TOPSOIL (BY OTHERS) SHALL BE SIX (6) INCHES DEEP IN ALL TURF AREAS AND TWELVE (12) INCHES DEEP IN ALL LANDSCAPE BED AREAS AFTER PLACEMENT AND REASONABLE SETTLEMENT.
16. CONTRACTOR SHALL NOT CREATE ANY SITE GRADING THAT WILL PREVENT THE NORMAL DRAINAGE OF WATER OF DAM WATER. SHOULD OFFSITE TOPOGRAPHY OR CONTOURS SHOWN ON GRADING PLAN NOT DEPICT ACCURATE CONDITIONS THAT CREATE DRAINAGE PROBLEMS, THE CONTRACTOR SHALL BRING THIS TO THE ATTENTION OF THE OWNER, LANDSCAPE ARCHITECT AND/OR CIVIL ENGINEER, PRIOR TO BEGINNING WORK.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNDERCUT OF UNUSABLE, UNSTABLE OR OTHERWISE UNACCEPTABLE MATERIALS THAT ARE INDICATED ON THIS PLAN. ASSOCIATED SPECIFICATIONS AND/OR REFERENCED IN THE GEOTECHNICAL REPORT. THE CONTRACTOR SHALL PAY FOR ALL UNDERCUT EXCAVATION AND DISPOSITION OF MATERIALS IN AN ACCEPTABLE MANNER THAT SHALL INCLUDE HAULING OFFSITE.
18. CONTRACTOR SHALL ENSURE ALL PROPOSED IMPROVEMENTS MEET AND MATCH EXISTING AND/OR ADJACENT CONDITIONS. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER UPON ANY DISCREPANCY WHICH WILL DETER ADHERENCE TO THIS CONDITION.
19. ALL STORM SEWER INFRASTRUCTURE NEEDS TO BE FLUSHED FREE OF SEDIMENT AND INSPECTED BY ENGINEER AT COMPLETION OF PROJECT.
20. SPOT ELEVATIONS LABELED WITH "EX" ARE EXISTING SPOTS THAT HAVE BEEN INTERPOLATED FROM THE SITE SURVEY AND NEED TO BE VERIFIED IN THE FIELD. NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
21. CONTRACTOR TO FIELD VERIFY LOCATIONS AND DEPTHS OF EXISTING STORM STRUCTURES PRIOR TO BEGINNING CONSTRUCTION TO INSURE ADEQUATE DEPTH.
22. IF ANY EXISTING ASPBESTOS COATED SEWER LINE IS UNearthED, IT WILL REQUIRE ABATEMENT IN ACCORDANCE WITH CURRENT EPA GUIDELINES.
23. PROVIDE A MINIMUM OF 12" CRUSHED STONE BACKFILL OVER STORM PIPING. STORM PIPING UNDER PAVED SURFACES TO BE BACKFILLED FULL DEPTH WITH CRUSHED STONE.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEWATERING OF EXCAVATION AREAS FOR FOUNDATIONS AND/OR BASEMENTS AND SHALL NOT ALLOW PONDING OF WATER THAT WILL DESTABILIZE THE SOIL BEARING FOR FOUNDATIONS, SLABS, STRUCTURES, ETC.
25. CONTRACTOR SHALL UTILIZED DIGITAL FILES TO ESTABLISH COORDINATES FOR LOCATING DRAINAGE STRUCTURES. DIGITAL FILES CAN BE OBTAINED FROM CARMAN. SHOULD THE CONTRACTOR NEED A LISTING OF STRUCTURE COORDINATES, THESE MAY BE REQUESTED FROM THE OFFICE OF CARMAN.
26. THE CONTRACTOR SHALL SUBMIT SITE SPECIFIC SHOP DRAWINGS, SAMPLES, ETC FOR ANY MANUFACTURED OR PRE-CAST EQUIPMENT OR STRUCTURES ASSOCIATED WITH STORM DRAINAGE OR STORMWATER MANAGEMENT IMPROVEMENTS.
27. ASIDE FROM DESIGNATED SUMP MANHOLES, ANY SUMPS REMAINING IN STORM STRUCTURES (PVC OR CONCRETE) BELOW THE INVERT ELEVATION OF THE OUTLET PIPE SHALL BE WITH CONCRETE TO ELIMINATE ANY STANDING WATER WITHIN THE STRUCTURES.
28. ALL GRAVITY STORM PIPING SHALL BE SDR35 PVC UNLESS OTHERWISE NOTED AS DUCTILE IRON ON THE PLAN AND AS SPECIFIED.

SITE DRAINAGE CODED NOTES

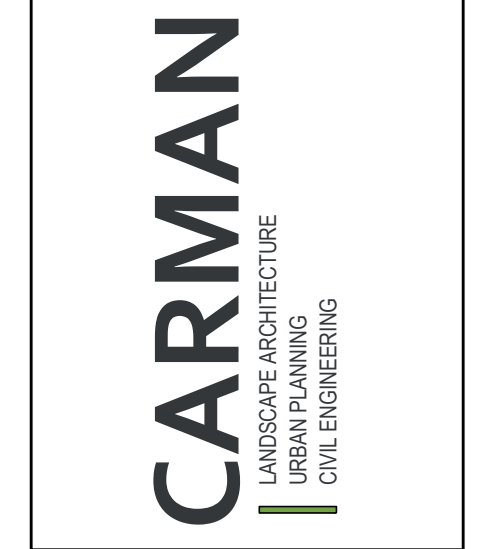
KEY	DESCRIPTION	DETAILS
1A	12" CATCH BASIN WITH 12" CIRCULAR GRATED LID, FLUSH WITH ADJACENT SURFACE. GRATED LID TO CONFORM TO UK STANDARD HEEL PROOF REQUIREMENTS	A / C602
1B	CATCH BASIN WITH 12" CIRCULAR SOLID LID, FLUSH WITH ADJACENT SURFACE	A / C602
2A	12" YARD DRAIN WITH BEEHIVE GRATE	B / C602
2B	YARD DRAIN BASIN WITH OPEN GRATE FLUSH WITH ADJACENT SURFACE - SIZE VARIES	B / C602
3	CLEANOUT	C / C602
4	2'x3' CURB BOX INLET	D / C602
5	FOUNDATION DRAIN LINE - 6" PERFORATED HDPE PIPE IN FILTER SOCK. REFER TO STRUCTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION	-
6	HEAVY DUTY TRENCH DRAIN	G / C602
7A	WOU #1: 6" DIAMETER WATER QUALITY UNIT	H / C602
7B	WOU #2: 6" DIAMETER WATER QUALITY UNIT	I / C602
8A	FOUNDATION DRAIN MANHOLE #1: 4" DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS AND AREAWAY SUMP DISCHARGE. NEW MANHOLE TO HAVE WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE A-3. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1000.00 - FOUNDATION DRAIN INV. ELEVATION: 981.50 - AREAWAY SUMP INV. 977.90 - SUMP ELEVATION: 973.90	E / C602
8B	FOUNDATION DRAIN MANHOLE #2: 4" DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-5-YD. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1001.00 - INVERT ELEVATION: 984.00 - SUMP ELEVATION: 980.00	E / C602
9	SET NEW 4" DIAMETER MANHOLE D-2 ON EXISTING 12" PIPE AND E-2 MH ON EXISTING 24" PIPE. SEAL CONNECTION TO PREVENT LEAKS. FIELD VERIFY INVERT ELEVATIONS.	E / C602
10	SET NEW 2'x3' CURB BOX INLET ON EXISTING 18" LINE. SEAL CONNECTION TO PREVENT LEAKS.	D / C602
11	EXISTING CURB BOX INLET	-
12	PERMEABLE PAVEMENT MANHOLE #3: 4" DIAMETER SUMPED MANHOLE FOR PERMEABLE PAVEMENT DRAINAGE SYSTEM WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-2-MH. CONNECT 4" CONDENSATE DRAIN LINE FROM BUILDING TO MANHOLE AT INVERT ELEVATION 981.33. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 985.00 - INVERT ELEVATION: 981.33 - SUMP ELEVATION: 977.33	E / C602
13	PERMEABLE PAVEMENT DRAINAGE SYSTEM. 4" PERFORATED PIPE IN SOCK CONNECTED TO MANHOLE	-
14	FUTURE SITE WORK FOR REFERENCE ONLY	-
15	WALLS PER STRUCTURAL PLANS	-
16	SANITARY SEWER SYSTEM FOR REFERENCE ONLY - SEE SHEET C500-C502 FOR MORE INFORMATION REGARDING SANITARY SEWER	-
17	2' x 2' CONCRETE CATCH BASIN	F / C602

FOUNDATION PENETRATIONS FOR INTERNAL BUILDING DRAINAGE

KEY	DESCRIPTION
A	10" PIPE INVERT OUT OF BUILDING AT CO-1: 997.50
B	10" PIPE INVERT OUT OF BUILDING AT CO-2: 995.00
C	8" PIPE INVERT OUT OF BUILDING AT D-5-C: 994.25
D	8" PIPE INVERT OUT OF BUILDING AT D-4-C: 989.50



RESERVED FOR AHJ STAMP



BP-02  
**MICHAEL D RANKIN MD HEALTH EDUCATION BUILDING**  
 UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
 1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



CIVIL		
PROJECT	202170	
DATE	02.19.24	
REVISIONS		
No.	Description	Date
1	Addendum #3	04.02.24

JRA ARCHITECTS HAS RETAINED AN ELECTRONIC VERSION OF THESE DRAWINGS. THE CLIENT AGREES NOT TO REUSE THESE DRAWINGS IN ELECTRONIC OR ANY OTHER FORMS, IN WHOLE OR IN PART. FOR ANY USE OTHER THAN THAT FOR WHICH THE CLIENT AGREES NOT TO REUSE, THE CLIENT AGREES NOT TO REUSE THE ELECTRONIC FILES WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE CLIENT FURTHER AGREES TO WAIVE ALL CLAIMS AGAINST THE ARCHITECT RESULTING IN ANY WAY FROM ANY UNAUTHORIZED CHANGES TO OR REUSE OF THE ELECTRONIC FILES FOR ANY OTHER PROJECT BY ANYONE OTHER THAN THE ARCHITECT.

**SITE DRAINAGE PLAN NORTH**  
**C600**  
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Site Plan

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- PRIOR TO CONSTRUCTION OR DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES, SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
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- IF ANY EXISTING ASBESTOS COATED SEWER LINE IS UNEARTHED, IT WILL REQUIRE ABATEMENT IN ACCORDANCE WITH CURRENT EPA GUIDELINES.
- PROVIDE A MINIMUM OF 12" CRUSHED STONE BACKFILL OVER STORM PIPING. STORM PIPING UNDER PAVED SURFACES TO BE BACKFILLED FULL DEPTH WITH CRUSHED STONE.
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- ALL GRAVITY STORM PIPING SHALL BE SDR35 PVC UNLESS OTHERWISE NOTED AS DUCTILE IRON ON THE PLAN AND AS SPECIFIED.

SITE DRAINAGE CODED NOTES

KEY	DESCRIPTION	DETAILS
1A	12" CATCH BASIN WITH 12" CIRCULAR GRATED LID, FLUSH WITH ADJACENT SURFACE. GRATED LID TO CONFORM TO UK STANDARD HEEL PROOF REQUIREMENTS	A / C602
1B	CATCH BASIN WITH 12" CIRCULAR SOLID LID, FLUSH WITH ADJACENT SURFACE	A / C602
2A	12" YARD DRAIN WITH BEEHIVE GRATE	B / C602
2B	YARD DRAIN BASIN WITH OPEN GRATE FLUSH WITH ADJACENT SURFACE - SIZE VARIES	B / C602
3	CLEANOUT	C / C602
4	2'x3" CURB BOX INLET	D / C602
5	FOUNDATION DRAIN LINE - 6" PERFORATED HOPE PIPE IN FILTER SOCK. REFER TO STRUCTURAL AND MEP PLANS FOR ADDITIONAL INFORMATION	-
6	HEAVY DUTY TRENCH DRAIN	G / C602
7A	WOU #1: 6' DIAMETER WATER QUALITY UNIT	H / C602
7B	WOU #2: 6' DIAMETER WATER QUALITY UNIT	I / C602
8A	FOUNDATION DRAIN MANHOLE #1: 4' DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS AND ARWAYWAY SUMP DISCHARGE. NEW MANHOLE TO HAVE WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE 4-3. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1000.00 - FOUNDATION DRAIN INV. ELEVATION: 981.50 - ARWAYWAY SUMP INV. 977.90 - SUMP ELEVATION: 973.90	E / C602
8B	FOUNDATION DRAIN MANHOLE #2: 4' DIAMETER SUMPED MANHOLE FOR FOUNDATION DRAIN CONNECTIONS WITH 2" FORCE MAIN TO DISCHARGE WATER TO STORM STRUCTURE E-5-YD. SUMP TO INCLUDE PUMP PER MEP ENGINEER. RIM ELEVATION: 1001.00 - INVERT ELEVATION: 984.00 - SUMP ELEVATION: 980.00	E / C602
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11	EXISTING CURB BOX INLET	-
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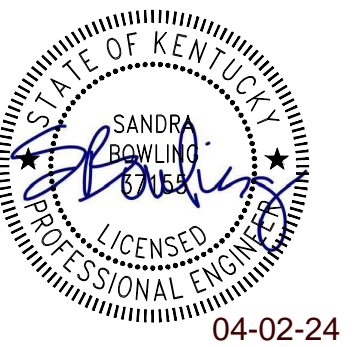
FOUNDATION PENETRATIONS FOR INTERNAL BUILDING DRAINAGE

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B	10" PIPE INVERT OUT OF BUILDING AT CO-2: 995.00
C	8" PIPE INVERT OUT OF BUILDING AT D-5-CI: 994.25
D	8" PIPE INVERT OUT OF BUILDING AT D-4-CI: 989.50

REVISION NOTE



3225 Summit Square Place, Suite 200  
Lexington, Kentucky 40509  
859.252.6781



RESERVED FOR AHJ STAMP



BP-02  
MICHAEL D RANKIN MD HEALTH EDUCATION BUILDING  
UNIVERSITY OF KENTUCKY, BLDG NO. 0724  
1148 UNIVERSITY DRIVE, LEXINGTON, KENTUCKY



CIVIL

PROJECT 202170  
DATE 02.19.24

REVISIONS

No.	Description	Date
1	Addendum #3	04.02.24

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SITE DRAINAGE PLAN SOUTH

C601

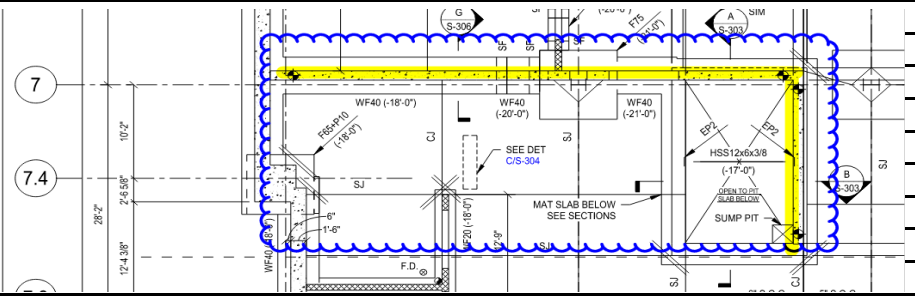
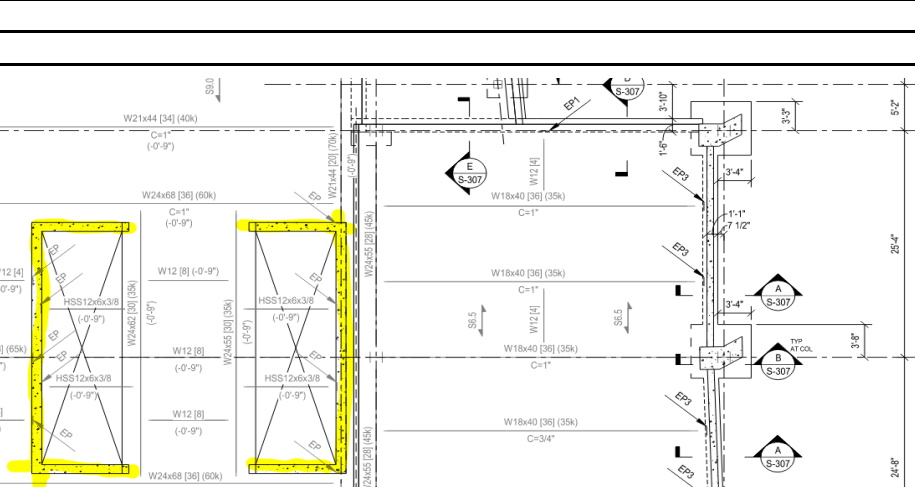
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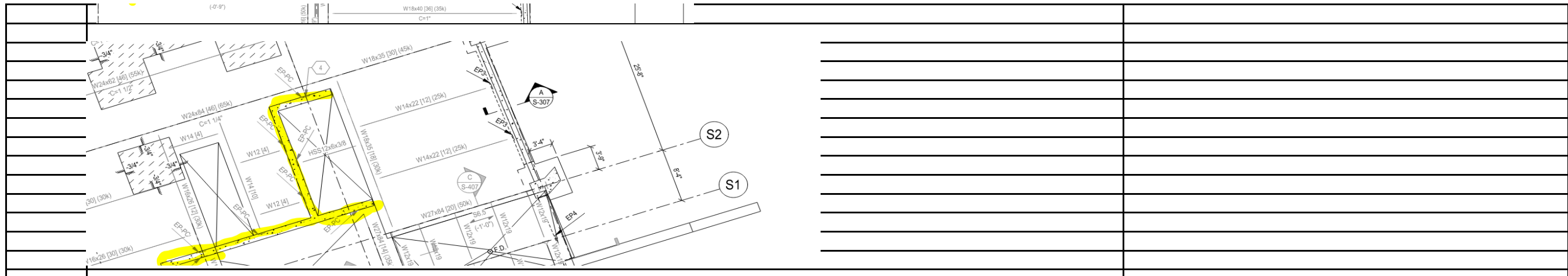


BEFORE YOU DIG CALL KENTUCKY UNDERGROUND (811) TWO (2) WORKING DAYS IN ADVANCE OF DIGGING

#	Question	Response
1	Regarding demolition of Kelly Hall and the Medical Center Annex buildings to be performed by BP-01C, are existing floor slabs and underlying foundations to be removed entirely? Is BP-01C responsible to refill any below grade excavations associated with demolition?	From BP-01C Demo and Abatement Scope of Work: a. Include complete removal of foundations, spread footings, CMU walls, column pads, grade beams, elevator pits, slab-on-grade, and deep foundations (piers). b. Backfill existing footings and deep foundations (drilled piers) with like soil to top of existing footing or deep foundation elevations.
2	Street cleaning: per TC-014 Attachment "B" item 15, TC-014 is to minimum twice daily provide power sweeping and "must clean all adjacent streets and maintain as if there were no construction site in the area". Project General Requirements, item 64, "TC-008 Early Site General Trades shall provide a full-time on-site street sweeper.....twice daily.....for the duration of this contract" with a caveat per 64-a.: "TC-014 Excavation and TC-015 Foundations is responsible for their own street cleaning as outlined in their respective scopes of work". Is TC-014 responsible ONLY for street sweeping/associated cleaning for the TC-014 scope of work?	Correct
3	Reference Attachment "B" item 20: SK-002.6 is not included in the plan set indicating <b>temporary construction</b> . Please include in forthcoming addendum which is said to provide areas subject to temporary roadways, staging areas, and steel plates.	Released in Addendum 2.
4	Reference Attachment "B", item 23-a.: SK-002.5 is not included in the plan set. Please include in forthcoming addendum which is said to provide limits of the earth retention system.	Released in Addendum 2.
5	Reference Attachment "B", item 23-e.: "Retention system should be designed to withstand construction loading (i.e. fully loaded concrete trucks, ground forces for crane outriggers, etc.)". Please provide the distance from the retention system to the wheel base of concrete trucks (i.e.: trucks should stay a certain distance from the retention system and said distance needs to be known for retention system design). Moreover, crane outriggers need to be specifically spelled out for retention system design (i.e.: maximum outrigger load in terms of PSF and distance from retention system to be imparted upon the retention system). Also, can a set number of crane outrigger locations be stipulated, as retention system design for outrigger support requires heavier retention system components?	Retention system shall be designed so that fully loaded concrete trucks can drive within 6" of retention system.
6	Reference Attachment "B", item 23-f-i.: twelve (12) openings in the cable guardrail are to be incorporated into the retention system. Are 36" wide openings acceptable, and will any style special "landing" be required?	36" will suffice for any type of foot traffic. Landings / walkways to be installed by others (future GT).
7	Reference Plan Sheet C300, Keynote 5: "Areas within Building Footprint where rock is lower than designated elevation 982 or 984, shall be filled with 4,000 PSI concrete to subgrade of footings or to 36" from bottom of floor slab". Which Bid Package does this note apply: TC-014 -- Site Excavation or TC-015 -- Foundations? Additionally, where subsequent earth excavation is directed in earthen areas below EL 982 or EL 984, <b>is it not incumbent</b> on TC-014 to design its retention system for the additional height of earth retention relative to said deeper excavation, although TC-015 may be assigned the duty as the party to perform the foregoing undercut with concrete refill (primarily for foundation support)?	Keynote 5 on C300 pertains to TC-015 Foundations. Lagging boards shall go to top of rock.
8	Is it permissible for an on-site 1,000 gallon double wall fuel tank surrounded by concrete barriers?	Onsite fuel storage is not permissible.
9	Reference Attachment "B", item 27: which Trade Contract removes the temporary retention system supporting the existing ductbank and when would this work be scheduled for removal if it is deemed within the TC-014 scope of work? Is the physical size of the ductbank known?	TC-014 is responsible for the removal of the temporary retention system for the existing ductbank. The work shall occur after the first floor slab is poured. Reference Survey drawings for ductbank size.
10	Reference Attachment "B", item 28: ".....where excavation is carried out, through error, below indicated grade or beyond the lines of excavation, backfill to the indicated grade, compact with approved fill and/or place 4,000 psi structural fill at no additional cost to the Owner, and at the direction of the Engineer or Geotechnical Consultant." Given the majority of the building footprint will experience native limestone at subgrade elevation, limestone will typically break to the next lower stratum. Can said unavoidable undercut be stipulated to be acceptable crushed stone and not 4,000 psi structural concrete?	As long as it is approved fill.
11	Reference Attachment "B", item 31: "At the conclusion of the project and upon approval from the Construction Manager, this Trade Contractor shall perform a thorough and final cleaning of the project site inclusive of walks, slabs, adjacent roadways, and hardscaped areas to turn over in "new condition"". Scheduled completion of the HEB project is June, 2026, long after TC-014 has completed its contract work. Please define what "conclusion of the project" means relative to TC-014. Also, there will be a long delay from substantial completion of the main TC-014 Sitework requirements, per se, until TC-014 returns to backfill and apply waterproofing to foundation walls next year. During the interim, will TC-014 <b>NOT</b> be responsible for having continued work responsibilities during this interim period (i.e.: site supervision, clean-up, maintenance, jobsite meetings, etc.)?	Final cleaning of project site outlined in item 31 shall occur after mass excavation and lagging activities are complete. TC-014 will be required to coordinate with project team in interim period to ensure no delays in comeback work completion.
12	In the Turner Construction Company General Work Requirements for BP-02, there are references to 1) dumpsters, 2) chain link fences and gates, 3) grass cutting and 4) toilets provided by the BP-01 TC-008 Early Site General Trades contractor. Sketches SK-004.1 and SK-004.2 were not included in the BP-01 trade package scopes of work, and thus, the language in the Turner Construction Company General Work Requirements for BP-02 gives the incorrect perception the BP-01 TC-008 Early Site General Trades contractor is responsible for 1) dumpsters, 2) chain link fences and gates and 3) grass cutting and 4) toilets in the Trailer and Laydown Area, which is not the case. While the BP-02 TC-012 Trailer and Laydown Area scope of work clearly includes the fencing for the Trailer and Laydown Area, in what trade package are the 1) dumpsters, 2) grass cutting and 3) toilets for the Trailer and Laydown Area included?	TC-012 to provide as needed and remove when complete temporary toilets for own workforce while performing Trailer and Laydown Area scope of work.
13	For Scope of Work Item 11(b) in trade package TC-012 Trailer and Laydown Area, what is the duration (months) of the aerial photos scope of work?	Provide on photo of the trailer and laydown yard prior to starting work and one after the work has been completed. See updated scope of work.
11.	This contractor is to provide <b>PHOTOGRAPHIC DOCUMENTATION</b> as outlined in specification 01 3233. This includes the following: a. Provide a <b>preconstruction as-built</b> survey of all existing conditions prior to the commencement of any construction activities. Survey should show existing conditions of all building facades, access	

	any construction activities. Survey should show existing conditions of all building features, access routes, window openings, entrances, landscaping, pavement, retaining walls, stairs, roof, etc. This is to include properties and structures outside of, but adjacent to the construction limits. Survey is to include photographs, narrative and video. Submit survey to Construction Manager for project records.	
	b. Provide four (4) aerial photos per month for the duration of this work.	
14	For Scope of Work Item 12 in trade package TC-012 Trailer and Laydown Area, please specify the location and approximate camera height of the Earthcam cameras. 12. Furnish (2) cameras with solar panels via Earthcam for use as site <b>security monitoring</b> . Mounting locations to be coordinated with Construction Manager. Include all installation costs. Costs for recording services will be by others.	This will be captured in an allowance. See updated scope of work.
15	For Scope of Work Item 13 in trade package TC-012 Trailer and Laydown Area, an EPSC plan does not exist for the Trailer and Laydown Area. Please provide either 1) an EPSC plan or 2) descriptions and quantities of the EPSC items to be included in the TC-012 Trailer and Laydown Area.	Contractor to include all EPSCs needed to capture any containments created due to the installation of the trailer and laydown lots. This includes, but is not limited to: dandy bags, straw waddles, silt fence, etc.
16	For Scope of Work Item 15(c)(iv) in trade package TC-012 Trailer and Laydown Area, will AlturnaMAT® HDPE Ground Protection Mats located under the roadway above utilities suffice in lieu of steel plates located under the roadway above utilities?	These are no longer needed. See updated scope of work.
17	For Scope of Work Item 12 in trade package TC-012 Trailer and Laydown Area, are cameras provided and installed by Multivista/Oxblue an acceptable substitution in lieu of the Earthcam cameras. 12. Furnish (2) cameras with solar panels via Earthcam for use as site <b>security monitoring</b> . Mounting locations to be coordinated with Construction Manager. Include all installation costs. Costs for recording services will be by others.	No.
18	Please provide a full size electronic, .pdf version of Sheet MU-100. The 1" = 40' scale of the drawing cannot be correctly extrapolated for use on Sheet MU-100 as the drawing has been saved to an 8.5" x 11" drawing size.	See revised SK-004 drawings for update scale drawings.
19	TC-12 Trailer & Laydown Area Setup: SOW # 12 – Please clarify which cameras are to be used from Earthcam as there are several to choose from.	This will be captured in an allowance. See updated scope of work.
20	TC-12 - SOW #15 – Will the trailer and laydown areas receive the base course asphalt also?	No. Only the heavy duty drive is to receive the base course asphalt.
21	TC-12 – SOW #15 – Will the fencing for this project tie-in with the fencing currently being placed or will it be separate?	Yes , tie into existing fence. See updated SK-004.
22	TC-014 Scope of Work, item 24.f: reference is made to refilling rock undercut with 4" of #2 stone and 2" of #57 stone. As a general rule depth of rock undercut varies to the next underlying rock stratum and while the undercut depth is uncertain can rock undercut be refilled with one particular class of crushed stone vs another?	Undercut needs to be filled with free draining stone.
23	TC-014 Scope of Work, item 24-i.: through the term " <i>maintain emergency egress throughout earthwork and grading activities</i> ", is it the intent for emergency services to have vehicular access to the basement area at all times?	Access into excavation needs to be sufficient enough to allow personnel retrieval if an accident were to happen.
24	TC-014 Scope of Work, item 25-d.: While TC-014 should excavate regarding direct bury for temporary power to dewatering pumps, does TC-009 Site Electric install the electrical conduit with wiring and connect same to the temporary on-site electric supply?	TC-009 has the conductors and connections for a quantity of 6 pumps. Excavation and pathways by TC-014.
25	TC-014 Scope of Work, item 14: can you be more specific regarding what plans and specifications are to be submitted for review by EPA, OSHA, Turner? It goes without saying that Turner would receive shop drawings and/or safety procedures and the like, but the EPA and OSHA?	Any plans as required for this scope of work.
26	TC-014: Aside from grade elevations pertinent to the basement, loading dock, and rim elevations of storm and sanitary sewers, there are no finish grade contours noted in the plan set. Is this to say that a future trade contract is responsible to remove temporary roadways and staging areas associated with the new HEB, including additional cuts and fills to develop exterior subgrade elevations for the finish product (e.g.: curbs, sidewalks, paving, etc.)?	Future trade contractor will be responsible to remove temp. roadways and staging areas to bring surrounding area to final grade.
27	Please refer to Plan Sheet P-099A: at the far northwest corner of Area A, the 978.00 invert elevation of underground plumbing pipe exits the building with a note setting forth – REFER TO SITE UTILITIES FOR CONTINUATION. There is no piping located on the Huguelet Drive side of the building remotely deep enough for said under-basement plumbing line to be continued.	C600 indicates a sumped manhole with coded not 8A that is deep enough to receive the pipe in question.
28	Please refer to Plan Sheet C600, namely where the storm sewer crosses Huguelet Drive. The barrel of the 18" storm pipe is only 9" +/- to 12" +/- below top of asphalt. Are these invert elevations correct, and if so, should Ductile Iron Pipe or a concrete encased pipe be installed?	The pipe under Huguelet Drive is an existing pipe, not a new pipe.
29	Again speaking to plan Sheet C600, some storm sewer lines are relatively shallow, especially to be installed early in the project with on-going construction traffic. To protect new storm sewer piping, should Ductile Iron pipe or concrete encasement be employed when top of the pipe barrel is less than, for example, 30" below finish grade elevations?	See updated site storm sketch ADD#3 for storm piping locations. Turner shall address the timing of installation of these pipes. CARMAN does not recommend installing these pipes until final grading of the site. That being said, a revised Storm Drainage Plan will be issued via addendum to change the material of some of these pipes to ductile iron due to proximity to steam piping. Some pipes will also be shifted to avoid conflicts with other utilities as well.
30	Please refer to Plan Sheet C200, Note #15: when will the asphalt and curbs located east of the building be allowed to be removed for installation of the East elevation storm sewers?	Storm sewer installation on east side of building isn't part of this scope of work.
31	Can you confirm Note 24.c.ii? The south crane pad top elevation is listed at 981, with a thickness of 5.5', making the crane pad bottom elevation 975.5.	Assume pad thickness of 6' 4". See revised TC-014 attachment B.

32	Can the "Hourly Rates" spreadsheet be provided in an excel format?	No, fill out the wage rates on the given sheet to best of the ability.
33	Per note 20 of the TC-015 scope, TC-015 contractor is to excavate to competent rock in areas where the bottom of footing design elevation is not on competent rock. This would require additional excavation for the TC-015 contractor. The question is, should the TC-014 contractor include in their retention design this addition excavation depth below the required 982' or 984' elevation?	TC-014 retention system shall be installed to rock elevation.
34	TC-012: For bidding purposes, please define "contract duration" as stated throughout scope of work description.	Contract duration is the duration of time from the beginning of the contractors work through the completion of that contractors scope of work.
35	TC-012: Current schedule (Add1), shows only 20 days for "Trailer & Laydown Yard Setup". Considering the overall scope of work, completion of work on SK-004 is not feasible within the allotted time. Will the C.M. adjust performance time?	Within 20 days the asphalt road, site fence, and trailer lots need to be completed. Site utilities will need to be coordinated with this work in order to not impact it.
36	TC-012, Scope #11.b & #12: Consider the requirements of BP-01C TC-008 to provide this scope of work for the building site, please define the areas to be monitored by TC-012 including location & quantity of monthly aerial photos. Would the CM consider an allowance for this item?	Item 11.b: Aerial photos should be of the trailer and laydown site. One at the start of work and one at completion. See updated scope of work. Item 12: This will be an allowance. See updated scope of work with this addendum.
37	TC-012, Scope #13: Please verify BMP's are <i>only</i> for Trailer and Laydown lots (SK-004) as building site BMP's (SK-001) were provided by BP-01C TC-008.	TC-012 is to only provide BMPs for the Trailer and Laydown lots. TC-008 provided BMPs for jobsite in BP-01C
38	TC-012, Scope #15. b. i & ii: Trailer Lot to receive "filter fabric" and Laydown Lot to receive "geogrid", both of which are to be "laid on grass". Scope for both areas mentions "undercut". Please clarify that areas receive two types of "geo" materials and if undercut is required. If undercut is required, please state assumed depth for bidding purposes as no grading plan is provided.	Each area is to receive the geo material as specified in the scope of work. The intent is that the geo material is laid directly on the grass and no undercut is performed.
39	TC-012, Scope #15. c. iv: SK-004.3 depicts potential utilities in proposed asphalt access road. Utility type and depths are not listed. Please provide a site survey for this area or, state a defined area (20'x30'??) that bidders should provide road plate protection.	The plates are no longer needed due to another project picking these up. See updated scope of work.
40	TC-012, Scope #17. c: Lead times on electrical equipment will exceed performance time. Will the C.M. allow for alternative equipment and or setups in order to shorten lead times? Will performance time be extended to allow for installation? Will TC-012 "contract duration" be extended to match this time?	Alternative equipment and/or setups will be entertained as long as the final function of the scope is met. Contractor to understand that time is of the essence and items need to be procure as quickly as possible as to not impact the schedule.
41	Please reference specification section EARTH MOVING, Sub-Section 3.06 – FILLING, BACKFILLING, AND COMPACTING, pg 312000-6, Item 3.06-C-1.: "Trenches located in roads, parking lots, loading dock or loading dock access drive will be backfilled with flowable fill or lean concrete". Does this flowable fill or lean concrete backfill requirement apply to ALL utilities located beneath the aforementioned locations, regardless of total backfill depth? While there are several runs of shallow storm sewer which would benefit from flowable fill or lean concrete backfill, there are also much deeper storm sewers located beneath roadways seemingly better suited for more economic backfill material (for example: Storm Manholes D-2 and E-2 and associated storm lines some 14' +/- deep located in the far southwest corner of the project noted on Plan Sheet C601). Also, where the cited spec section references "utility trenches", this could seemingly apply to any underground utility service, also where the TC—013 Site Plumbing bid package is subject to excavation and backfill requirements.	Proceed with current spec direction.
42	Please clarify interior shear walls and shaft walls. Are these walls to be included in this bid package, or are they included on a future bid package? If they are to be included in this bid package, please specify top of wall elevations. Locations are included in the below screen shots:	The foundations for these walls are to be included in this package. The walls will be included in a future bid package.
		
		



43	Does the North Crane Pad need to be constructed with a retention system considering that the notes state the foundation is to be excavated to bear on rock?	Yes, it needs to have retention but doesn't need to bear on rock.
44	Sheet A-531, DETAIL A shows vapor barrier and 2" Perimeter insulation below the slab on grade, is this part of TC-014 or TC015 package?	This will be part of the TC-015 package.
45	Will UK issue the CAD file for bidding purposes?	The CAD file isn't part of the contract documents and won't be issue with this bid package.