



CHEROKEE COUNTY BOARD OF COMMISSIONERS  
Purchasing Department  
1130 Bluffs Pkwy, Canton, GA 30114  
Ph: 678-493-6000 | Fax: 678-493-6035

## ***ADDENDUM FOUR***

Solicitation Number: 2024-023  
Solicitation Name: New Construction, Cherokee County EMS Station #30  
Addendum Release Date: April 12, 2024

Prime Bidders/Proposers acknowledge the receipt of this Addendum by inserting the number and date in the appropriate position on the Proposal Form. Failure to do so may subject the Bidder/Proposer to disqualification. This Addendum is a part of the Contract Documents. It modifies them as follows:

### **Item No. 1**

### **RFP #2024-023 Document**

Replace this document in its entirety (see attachments).

### **Item No. 2**

### **Sections 01030 & 09705**

Section 01030 – Alternates & Section 09705 Resinous Epoxy Flooring

Add these sections in their entirety (see attachments).

### **Item No. 3**

### **Section 05120**

Section 05120 – Structural Steel Framing

Under section 1.5 Quality Assurance, AISC certification will not be required for erectors and fabricators.

### **Item No. 4**

### **Sections 08710 & 09301**

Section 08710 – Door Hardware & Section 09301 – Tile

Replace these sections in their entirety (see attachments).

### **Item No. 5**

### **Sheets C1.1, C2, C2.1, C3, C4, C5, C6.3, C6.4, C6.5 and C7.1**

Replace these Civil sheets in their entirety (see attachments).

### **Item No. 6**

### **Sheet C6.51**

Add this Civil sheet in its entirety (see attachment).

**Item No. 7**

**Sheets A1.1, A1.2, A1.3, A1.5, A4.2, A5.1 and A5.2**

Replace these Architectural sheets in their entirety (see attachments).

**Item No. 8**

**Sheets E2.0 and E6.0**

Replace these Electrical sheets in their entirety (see attachments).

**Item No. 9**

**Requests for Substitution**

The products listed below will be considered acceptable pending compliance with all requirements of the Contract Documents.

Diesel Generator – Equal products by Kohler.

Resilient Athletic Flooring – Equal products by Centaur Floor Systems.

**Item No. 10**

**Contractor's Q & A**

See below for Answers to Contractor's Questions.

1. Regarding AISC Certification, we are trying to get some numbers from a Steel Company that is not AISC Certified, are they still able to price this project? Or is that something that must be met?

**Response: See Addendum #4, regarding waiving this requirement.**

2. Sheet A1.5 has a note "SEVERAL ITEMS SUCH AS REFRIGERATORS, WASHERS AND DRYERS, GEAR EXTRACTOR WASHER, GEAR DRYER, BREATHING AIR SYSTEMS, TELEVISIONS, DEDICATION PLAQUES, ETC. WILL BE OWNER PROVIDED AND CONTRACTOR INSTALLED." These items are all listed in the legend as Contractor shall purchase and install. Please provide a list of what will be Owner provided (if any).

**Response: See Addendum #4, replacing sheet A1.5.**

3. Is there a Geotechnical report available.

**Response: Yes, it is attached to specification section 02990 Soil Investigation.**

4. Please provide an Epoxy flooring specification.

**Response: See Addendum #4, adding section 09705 Resinous Epoxy Flooring.**

5. Drawing A4.4 is missing from the drawing set; however, it is listed on the drawing index. Please clarify.

**Response: Sheet A4.4 will be added via future addendum.**

6. The allowances allocated to Landscape materials says, "in addition to those shown in the contract documents". Please clarify landscaping scope as there is none shown on the drawings.

**Response: See Addendum #4, adding sheet C6.51. All landscaping shown on Civil sheets shall be provided as part of the base bid. The Landscaping Allowance shall be reserved for any additional landscaping requested beyond what is shown.**

7. In the RFP document, reference Solicitation Requirements & Instructions page 8 of 11, Item III, b. Please confirm you require the specified warranty cost to be added as an additional line item on the Attachment B Pricing Form.

**Response: See Addendum #4, denoting the deletion of this requirement.**

8. Please provide CAD files for sitework if available.

**Response: Please contact [mparton@krharchitects.com](mailto:mparton@krharchitects.com) to request Civil CAD files.**

9. Based on a recent site inspection, it has been observed that most of the existing soffits are rotten and deteriorating. Could you please clarify if they need to be replaced?

**Response: See Addendum #4, replaced sheet A1.3. A note was added to replace a section of deteriorated soffit observed on a subsequent site visit.**

10. The current lead times for the Generac diesel generators are 36-40 weeks. This will impact the project timeline, which aims to be completed in 8 months. Please clarify how this will be addressed, given the involvement of liquidated damages.

**Response: See Addendum #4, replaced sheet E2.0 and approved equal generators. Also, our source at Generac indicates this model should be 10-14 weeks from the factory not the 36-40 weeks noted in the question above.**

11. The plan legend on Roof Drawings A1.3 specifies that the existing roofing should be cleaned, repaired, prepped, and repainted. Based on a recent site visit, the existing roof looks to be in bad condition, and the repairs will be difficult to quantify without a certified roofing inspection. Can an allowance be specified for the roof repair?

**Response: No. Contractor shall provide all requirements listed in the contract documents regarding the existing roofing to remain.**

12. Provide stated cost limitation (SCL) for this project.

**Response: This information is not available for release.**

13. Provide estimated start and finish construction date (Project Schedule).

**Response: As stated in the RFP, the project shall be complete within 8 months from the issuance of the notice to proceed.**

14. What area can be used for lay-down / storage location? Where can dumpsters be placed?

**Response: To be determined by Contractor in coordination with all required work and project phasing.**

15. Has hazmat inspection been done in the work area or areas that will be demo'd? Confirm no asbestos abatement is required.

**Response: This information has been released by prior Addendum.**

16. Confirm no permit fees are required.

**Response: No permit fees are required by Cherokee County for the Building Permit or Land Disturbance Permit. All other fees are the responsibility of the Contractor.**

17. Are there any inspections the County will not be performing (special inspections, etc.) that need to be done by the Contractor at Contractor's cost?

**Response: The Contractor is responsible for all NPDES testing and monitoring. See Civil.**

18. Are clarifications / exclusions acceptable with the bid package with no consequences for disqualification?

**Response: No.**

19. Will there be parking provided/reserved during construction?

**Response: No.**

20. Please confirm all furniture (benches, desks, chairs, paintings, and others) and all existing equipment will be removed by the Owner before construction starts.

**Response: No. The Contractor shall be responsible for all removal & demolition.**

21. Confirm millwork subcontractors do not need to be AWI certified, just comply with AWI standards.

**Response: This is acceptable.**

22. Please advise how brick allowance needs to be provided, bid form already includes a unit price. Please confirm only brick quantity is requested to be provided.

**Response: Contractor shall enter brick quantity, multiply by the amount stated, and provide the total on the form in the space provided.**

23. Please confirm this is not a Davis Bacon project.

**Response: Confirmed.**

24. Drawing C2.1, irrigation section states the contractor needs to provide irrigation for football and softball fields, please confirm this requirement does not apply to this project.

**Response: See Addendum #4, replaced sheet C2.1 which removes this note.**

25. Please confirm that existing walls that need to be removed are CMU walls, if not, please provide current configuration for estimating and demolition purposes.

**Response: Demolition extents are noted in the contract documents. Demolished components vary in type. Contractors shall visit the site and familiarize themselves with the scope.**

26. Please confirm gym equipment on drawing A1.5 will be Owner furnished Owner installed.

**Response: No. This equipment shall be Contractor furnished and installed.**

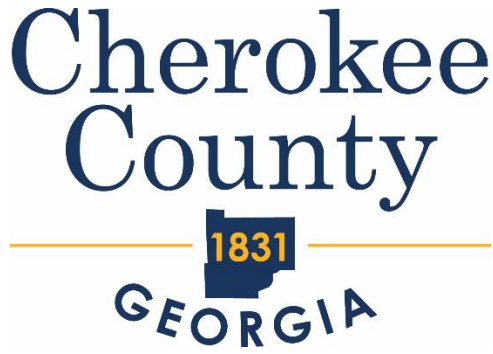
27. Please confirm if the GC is responsible to provide and install the 1-1/2" trench grating per detail #8 on drawing S3.1 or will it be by others. Please advise.

**Response: The Contractor shall provide all components required for TD-1 Apparatus Bay Trench Drain. See notes on sheet P0.1**

28. Please provide wind load requirements for new sectional overhead door system, according to section 08360 wind load should appear in structural drawings, please advise.

**Response: See sheet S0.1.**

**\*\*END\*\***



Cherokee County Board of Commissioners  
Purchasing Department  
1130 Bluffs Parkway, Canton, GA 30114  
Phone: (678) 493-6000  
Fax: (678) 493-6035

## REQUEST FOR PROPOSALS

### RFP# 2024-023 New Construction, Cherokee County EMS Station #30

Replaced in Addendum #4

**THE PROJECT:** The Cherokee County Board of Commissioners Purchasing Department (County) is requesting competitive sealed **proposals** in support of performing new construction of Cherokee County EMS Station #30 located at 2017 E. Cherokee Drive, Woodstock GA 30188, meeting the specifications and as described herein.

There **will** be a mandatory meeting to review the requirements. The meeting will be held at the proposed work site and will include walking the area.

All times in the solicitation are local times to Cherokee County, Georgia in the Eastern Time Zone.

This Request for Opportunity Description is one of two documents making up this solicitation. The second document is Cherokee County Standard Solicitation Terms and Conditions, which contains all the standard forms potentially required to accompany a submission. Both of these documents together constitute the entire solicitation at the time of issuance.

The County reserves the right to reject any or all bids/proposals, to waive technicalities and to make a selection and final award as deemed to be in the best interest of the County, including using any form of contract it deems most advantageous to the County.

#### SCHEDULE:

<b>Issued</b>	March 18, 2024
<b>Mandatory Site Visit</b>	<b>March 25, 2024, at 10:00AM</b>
<b>Questions Due</b>	<b>April 8, 2024, by 4:00 PM</b>
<b>Answers Due</b>	April 12, 2024
<b>Bids/Proposals Due</b>	<b>April 19, 2024, at 10:00 AM</b>
<b>Anticipated Award Date</b>	May 7, 2024

**THE EXPECTED PERIOD OF PERFORMANCE:**

The base period of performance is broken down into two areas; Physical Delivery of Product(s) and Service Delivery. This is a function of the Statement of Work (SOW) and/or specification and reflects if there is physical item or items to be delivered and / or delivery of services. An X in the box corresponding to item 1 below, Physical Delivery indicates a physical item or items are to be delivered and an X in the 2. Delivery of Services indicates that Services are to be performed. Either or both may apply to the work contemplated by this solicitation.

Additionally, should there be an X in the box corresponding item 3. Option Grant, then the County requests the right to extend the period of performance beyond the Base Rate as specified.

1.  NO PHYSICAL ITEMS/GOODS       PHYSICAL DELIVERY OF ITEMS/GOODS REQUIRED:

For Physical Delivery solicitations, the period of performance for an award shall begin with either the placement of Purchase Order or the date indicated on the Agreement. All items to be delivered are to be FOB Cherokee County at the address indicated in the solicitation. Performance shall be complete upon final acceptance by the County. Time is of the essence for the delivery of each item specified. Warranty requested as below:

Warranty Term Requested: \_\_\_\_\_

2.  NO SERVICES REQUIRED       PERFORMANCE OF SERVICES:

For Performance of Services solicitations, the period of performance shall begin with the placement of either a Purchase Order or the date of the Agreement unless the Agreement, the SOW or the Solicitation Terms indicate that performance shall begin upon the issuance of a Notice to Proceed (NTP), in which case the NTP would represent the beginning of performance. Term of services requested are as below:

Services Term:

- One Year  
 Two Years  
 Three Years  
 Other: 8 months from Notice to Proceed (NTP)

3.  OPTION GRANT:

This solicitation contains requested options; please see Statement of Work for details.

**SUBMITTAL INSTRUCTIONS:**

Interested Bidders/Proposers should carefully review the requirements defined herein and provide complete and accurate submissions that should include the following items (**only items indicated with an “X” in the corresponding boxes are required for this solicitation**):

- Information and Addenda Acknowledgement Form (Appendix A)
- Non-Influence and Non-Collusion Affidavit (Appendix B)
- E-Verify Affidavit (Appendix C)
- References\* (Appendix D)
- Acceptance of County' Standard Agreement\*\*, as below: (Appendix E)
  - Professional Services Agreement (Sample provided)
  - Construction Services Agreement (Sample Provided)
  - Architectural & Engineering Services Agreement (Sample Provided)
  - Other:
- Certification Regarding Debarment, Suspension, and Other Responsibility Matters Primary Covered Transactions (Appendix F)
- Contractor's License Certification (Appendix G)
- Bonds Requirements **if the price bid > \$100K**
  - Ability to Provide Performance, Labor & Matl. Payment Bond (Appendix H)
  - Bid Bond (See Appendix I)
- Evidence of/ability to provide Insurance at the limits identified herein,\*\*\*
- Certifications, Licenses or Registrations as required by law and/or as requested
- Pricing on Proposer's Company Letterhead
- Pricing on included pricing sheet / bid form
- Contractor's Qualifications Statement (Appendix J)
- Added Terms to Construction Service Agreement (Attachment)
- ARPA Terms, Conditions, Certifications & Representations (Attachment)
- Substitutions Proposed: See Instructions Standard Solicitation Terms\*\*\*\*, Item 9
- Any other requirements as requested under the scope of work

*This project is funded by the American Rescue Plan Act of 2021 (ARPA). All documents listed above with an  in the box are required to be submitted with complete and accurate information including signatures and notarization where required. ARPA Terms & Conditions and Representations shall be incorporated into the County's standard Construction Services Agreement.*

**Notes:**

\*The County reserves the right to contact not only those references provided, but may also use previous performance for the County, other contacts it identifies and other sources of information believed to be viable to evaluate capability, viability and performance.

\*\*If Acceptance of County's Standard Agreement is checked, all work/items defined herein are to be quoted according to these requirements. Copies of these agreements can be located at the County's Procurement web page.

\*\*\*Insurance levels requested are those identified in the County's Standard Agreement, section "I."

\*\*\*\*Standard Solicitation Terms Refer to Cherokee County Standard Solicitation Terms and Conditions



**EVALUATION CRITERIA:**

Bids/Proposals that contain options or additive work above and beyond the base bid will be evaluated financially according to the criteria described in the solicitation. However, should the use of options or additive work proposed exceed the County budget, the County retains its rights to address such situations as described in its Standard Terms For Bid and Proposal Solicitation as well as the right to award based on the base bid only or the base bid plus quoted additive work that is within its budget.

Bids determined to be Responsive and Responsible will be ranked based Bid Form Criteria.

OR

Proposals determined to be Responsive and Responsible will be evaluated on the following criteria:

60%	Price
40%	Technical* to include similar experience, qualifications, schedule adherence, and project understanding and scope.
<b>100%</b>	<b>TOTAL</b>

References may be contacted should the evaluation team deem them necessary.

Proposals will be scored on the above evaluation criteria. Failure to provide information necessary to evaluate proposal, may result in a lower scoring proposal.

The County reserves the right to reject the bid of any vendor who has previously failed to perform properly or complete on time contracts of a similar nature, or who upon investigation shows is not in a position to perform the contract.

**HOW AND WHERE TO SUBMIT BIDS AND PROPOSALS:**

The County has two methods for receiving bids and proposals that are mutually exclusive; either electronically or by physical receipt. The box with the "X" below indicates how and where bids or proposals are to be submitted. The County will NOT accept proposals by fax, or e-mail unless authorized, in writing, by the Procurement Director. The solicitation submission deadline will be strictly enforced; no late bids/proposals will be accepted for any reason, please plan accordingly.

**A. Electronic Submissions Only:**

Bids and Proposals are to be submitted electronically ONLY to BidNet Direct. Physical copies are not to be submitted unless approved in advance by the Purchasing Director.

Proposals and all requested documentation to be provided electronically should in the Adobe Portable Document Format (PDF) as ONE file unless otherwise indicated in these solicitation instructions. Documents provided in response to this solicitation are to be named according to the following naming convention:

- a. [Solicitation Number]\_[Vendor Name]\_[Document Type]

Example: "2017-111\_ABC Company\_Proposal"

**QUESTIONS/ADDENDA:**

Only written inquiries will be permitted during the solicitation period. **Questions are to be submitted via BidNet Direct** for this solicitation no later than the date and time indicated in the Schedule, as may be amended. Answers will be posted via formal Addendum and only released as part of the solicitation documents on BidNet Direct. All interested parties are instructed to monitor BidNet Direct on a regular basis throughout the solicitation period. The final date for posting of Addenda is per the Schedule, as may be amended.

**STATEMENT OF WORK AND / OR SPECIFICATION LOCATED ON THE NEXT PAGE**

**STATEMENT OF WORK AND / OR SPECIFICATION:**

Cherokee County is seeking proposals from licensed general contractors for construction of a new Cherokee County EMS Station #30 located at 2017 E. Cherokee Drive, Woodstock GA 30188.

The project includes an approximately 5,928 square foot single story facility containing a fire station, apparatus bays and support spaces. This includes 2,723 square feet of new construction and 3,205 square feet of renovation to existing structures. The apparatus bays are two spaces wide and shall be constructed for back-in accessibility. The bays are adjoined by support spaces containing gear lockers, a mechanical platform, bay storage, and EMS storage spaces as well. The EMS station will contain office spaces, dayroom, dining, kitchen, exercise room, bathrooms, laundry, bunk rooms and support spaces. The apparatus bays shall be CMU block construction, with brick and cementitious siding veneer. The fire station and community room shall be stud construction, with brick and cementitious siding veneer. The building will receive a prefinished metal roofing system on pre-engineered light gage metal trusses. The renovated portion will receive new paint throughout, new HVAC, plumbing, and electrical systems throughout, new windows and doors, new gutters and downspouts, and other improvements as indicated in the project documents. The site work includes new parking, drives, sanitary system, all utility work, grading, erosion control, etc. A new generator for full building power is also part of this project's scope.

Project shall be complete within 8 months from the issuance of the notice to proceed.

Plans have been submitted to the building department. The awarded contractor will have to apply for and pick up the permits. Permit fees will be waived.

All work shall be in accordance with the plans and specifications issued by KRH Architects and are included as part of this solicitation.

**Attachments:**

00700 General Conditions

23-017 EMS Station #30 Combined Drawings

23-017 EMS Station #30 Combined Specs

Cherokee Standard Construction Agreement Sample

Cherokee County Standard Solicitation Terms and Conditions

**END OF STATEMENT OF WORK/SPECIFICATION**

**ATTACHMENT A**

**PROPOSAL REQUIREMENTS:** Proposals are to be organized in the following sections, clearly labeled. Proposal including all forms are to be uploaded as **ONE PDF document to** BidNet Direct.

**I. FIRMS INFORMATION**

1. Local Name, address and telephone Number
2. Primary Contact for RFP process: name, telephone number and email address
3. Firm's information to include number of employees, type of business (Inc., LLC, etc.), years in business and executive management team.

**II. TECHNICAL PROPOSAL – MAXIMUM OF 40 POINTS AVAILABLE**

1. **SIMILAR EXPERIENCE:** Please provide 3 – 5 similar projects in size and nature completed by the General Contractor within the last 3 years. Please submit the following information for each project:
  - a) Project name and Location
  - b) Owner name and current contact information
  - c) Firm's role in project / brief summary of Firm's completed scope of work
  - d) Original contract price and final contract price,
  - e) Original contract period and final contract period
  - f) Any other photos or information relevant to project.
2. **PROJECT MANAGER INFORMATION,** to include: Name, years with company, years in industry, relevant similar projects that he/she has worked on, and any other information that may be relevant to this project.
3. **SITE MANAGER INFORMATION,** to include: Name, years with company, years in industry, relevant similar projects that he/she has worked on, and any other information that may be relevant to this project.
4. **SCHEDULE:** Proposals shall include schedule detailing timeline of major milestones that demonstrates ability to complete project within the specified timeframe. This shall include the assumption of weather days where construction may not be possible as well as any other potential delays in material availability. Notice to Proceed will be issued with 1 to 2 days of award.
5. **PROJECT APPROACH AND UNDERSTANDING:**
  - a) Firms shall submit a detailed list of the services to be provided under this Scope of Work.
  - b) Firms shall include information on firm's project approach to successfully completing the County's project on time demonstrating an understanding of project.

- c) Firms shall submit a description of how cost and quality are managed to maximize the value to the Customer and minimize the issuance of change orders.
- d) Firms shall demonstrate why they would be the most competent firm and/or team to complete this project and provide any additional information that may service to differentiate the firm from others in suitability, experience and qualifications for the project.

**II. PRICING PROPOSAL – MAXIMUM OF 60 POINTS AVAILABLE**

- a) Pricing is to be submitted on provided pricing form, Attachment B, broken down by major trades/commodities as identified on pricing form.

**III. REQUIRED FORMS AND DOCUMENTATION**

- a) Please refer to checklist on page 3 of this document. Only items identified with an “x” in the corresponding box are required.

**ATTACHMENT B**

RFP# 2024-023 NEW CONSTRUCTION, CHEROKEE COUNTY EMS STATION #30

*PRICING FORM***A. Base Proposal**

Company Name: \_\_\_\_\_  
 proposes to fully and completely construct the Project in conformity with all requirements of the Contract Documents and furnish all necessary labor, material and equipment for such construction, and, furthermore, to fully, completely, and strictly perform all obligations of the Contractor as set forth in the Contract Documents, for the lump sum contract price of

(\$\_\_\_\_\_). Said lump sum contract price is allocated, in its entirety, to the following elements of the work:

General Conditions and Fees	\$ _____
Earthwork and Civil	\$ _____
Concrete Foundation and Slabs	\$ _____
Fire Alarm System	\$ _____
Electrical	\$ _____
Mechanical	\$ _____
Plumbing	\$ _____
Roofing	\$ _____
Masonry	\$ _____
Other	\$ _____
Quantity Allowances (from below)	\$ _____
<b>TOTAL (must match lump sum)</b>	<b>\$ _____</b>

**B. Unit Price Proposal (Quantity Allowances)**

The Contractor proposes the following Allowance/Unit prices as described in sections 01020 and 01026. The total allowance for each item must be calculated from the quantities specified in Section 01020 (entered below) and the contractor's proposed Unit Price. Please reference section 01020 for complete description of work for each item.

Item#	Description	Allowance Qty.	Unit	Unit Price	Total Allowance
1.	Remove and dispose of mass rock off site.	250	C.Y.	\$	\$
2.	Remove and dispose of trench rock off site.	250	C.Y.	\$	\$
3.	Remove and dispose of unsuitable soil off site.	750	C.Y.	\$	\$
4.	Haul in and place suitable fill material from off site.	750	C.Y.	\$	\$
5.	Haul in and place #4 stone	30	C.Y.	\$	\$
6.	Haul in and place GAB	30	C.Y.	\$	\$
7.	Haul in and place #57 stone	30	C.Y.	\$	\$
8.	Haul in and place Rip Rap	10	C.Y.	\$	\$
9.	Furnish and install Tensar BX 1100 Geogrid or approved equal	200	S.Y.	\$	\$
10.	Furnish and install French Drain	150	L.F.	\$	\$
11.	Brick			X \$1,200 per 1000 =	\$

Enter Brick Qty Above

Other allowances:

12.	Radio System Integration	\$10,000
13.	Station Alerting	\$50,000
14.	Technology	\$15,000
15.	Monument Sign	\$15,500
16.	Landscaping	\$15,000
17.	Unforeseen Conditions	\$50,000

**TOTAL QUANTITY ALLOWANCES**

\$ \_\_\_\_\_

**BE SURE TO TOTAL AND INCLUDE ALL ALLOWANCES IN YOUR LUMP SUM ON PAGE 1 OF THE PRICING FORM**

**C. Alternate Proposals**

Contractor proposes these Alternate Proposals. The lump sum pricing below is to fully implement the work described for each item described in Section 01030 - Alternates. **(The Contractor shall clearly indicate the pricing below by use of the words "Add" or "Deduct" as required)**

**ALTERNATE NO. 1:** Resinous Epoxy Flooring

Add \$ \_\_\_\_\_

Allowances and unit prices shall be used for unforeseen conditions above and beyond the work included in the contract documents as approved by the Owner. Calculation of the brick allowance is the sole responsibility of the contractor. No consideration will be given for additional funds due to a miscalculation of the quantity of brick required.

The unit prices set forth herein shall be binding and shall become a part of the contract. The Contractor declares that it understands that the quantities shown, for unit price items, are approximate only and are subject to either increase or decrease, and that should the quantities of any of the items of the work be increased, the Contractor proposes to do the additional work at the unit prices stated herein; and should the quantities be decreased, the Contractor also understands that payment will be made on the basis of actual quantities at the unit price bid and will make no claim for anticipated profits for any decrease in quantities and that actual quantities will be determined upon completion of the work, at which time adjustment will be made to the contract amount by direct increase or decrease. The unit prices set forth herein include all general conditions, overhead, profit and other compensation of every kind and nature associated with the unit price work.



## **SECTION 01030 - ALTERNATES**

### **PART 1 - GENERAL**

#### **SUMMARY**

This Section specifies administrative and procedural requirements for Alternates.

Definition: An alternate is an amount proposed by Bidders and stated on the Bid Form for certain construction activities defined in the Bidding Requirements that may be added to or deducted from Base Bid amount if the Owner decides to accept a corresponding change in the amount of construction to be completed, or in products, materials, equipment, systems or installation methods described in Contract Documents.

Coordination: Coordinate related Work and modify or adjust adjacent Work as necessary to ensure that Work affected by each accepted Alternate is complete and fully integrated into the project.

Notification: Immediately following the award of the Contract, prepare and distribute to each party involved, notification of the status of each Alternate. Indicate whether Alternates have been accepted, rejected or deferred for consideration at a later date. Include a complete description of negotiated modifications to Alternates.

Schedule: A "Schedule of Alternates" is included at the end of this Section. Specification Sections referenced in the Schedule contain requirements for materials and methods necessary to achieve the Work described under each Alternate.

Include as part of each Alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

#### **SCHEDULE OF ALTERNATES:**

##### **Alternate No. 1**

Provide a proposed price to include all work shown as Alternate No. 1 (ALT1) on sheet A5.2 regarding Resinous Epoxy Flooring.

END OF SECTION 01030

**SECTION 09705 Resinous Epoxy Flooring**

**PART 1 GENERAL**

1.01 SUMMARY

- A. Section Includes: This Section specifies a HERMETIC™ Stout SSS-476 resinous flooring system.
- B. Related Requirements:
  - 1. Division 3 Section Cast-in-place Concrete.
  - 2. Division 7 Section Joint Sealers.

1.02 REFERENCES

- A. Reference Standards:
  - 1. ASTM International (ASTM):
    - a. ASTM C882 Standard Test Method for Bond Strength of Epoxy Resin Systems Used With Concrete By Slant Shear
    - b. ASTM D570 Standard Test Method for Compressive Properties of Rigid Plastics
    - c. ASTM D638 Standard Test Method for Tensile Properties of Plasticss
    - d. ASTM D645 Standard Test Method for Thickness of Paper and Paperboard.
    - e. ASTM D695 Standard Test Method for Compressive Properties of Rigid Plastics.
    - f. ASTM D790 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
    - g. ASTM D2240 Standard Test Method for Rubber Property Durometer Hardness.
    - h. ASTM D4060 Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
    - i. ASTM D4541 Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers

1.03 ADMINISTRATIVE REQUIREMENTS

- A. Coordination: Coordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays.
- B. Preinstallation Meetings: Conduct preinstallation meeting a minimum of two weeks prior to commencing on- site installations to verify project requirements, substrate conditions and coordination with other building subtrades, and to review manufacturer's installation instructions and manufacturer's warranty requirements.
- C. Sequencing: Sequence work of this section in accordance with all other trades and manufacturer's written recommendations for sequencing construction operations.
- D. Scheduling: Schedule work of this Section in accordance with Overall Project Schedule.

1.04 ACTION SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section 01300 - Submittals.
- B. Product Data: Submit specified products as follows:
  - 1. Manufacturer's product data, including manufacturer's SPEC-DATA product sheet.
  - 2. Manufacturer's installation instructions.
  - 3. Catalog pages illustrating products to be incorporated into project.
  - 4. Safety Data Sheets (SDS)

- C. Samples: Submit as follows:
  - 1. 12 inches x 12 inches minimum samples of each resinous flooring system specified to show color and texture with specified coats cascaded.

#### 1.05 INFORMATION SUBMITTALS

- A. General: Submit listed submittals in accordance with Contract Conditions and Section 01300 - Submittals.
- B. Test and Evaluation Reports:
  - 1. Certified test reports showing compliance with specified performance characteristics and physical properties.
  - 2. Specifier Note: Specify submittals intended to document manufacturer installation, storage and other instructions.
- C. Manufacturer's Instructions: Submit manufacturer's storage and installation instructions.
- D. Source Quality Control: Submit documentation verifying that components and materials specified in this Section are from single manufacturer.
- E. Qualification Statements:
  - 1. Submit letter of verification for Manufacturer's Qualifications.
  - 2. Submit letter of verification for Installer's Qualifications.

#### 1.07 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Manufacturer:
    - a. 10 years experience manufacturing components similar to or exceeding requirements of project.
    - b. Having sufficient capacity to produce and deliver required materials without causing delay in work.
    - c. Capable of providing field service representation during construction.
  - 2. Installer: Acceptable to the manufacturer, experienced in performing work of this section and has specialized in installation of work similar to that required for this project.
- B. Mock-Up: Construct mock-up where directed by Owner & Architect.
  - 1. Dimensions and Process: Construct to 5 feet x 5 feet minimum using proposed procedures, colors, textures, finishes and quality of work.
  - 2. Purpose: To judge quality of work, substrate preparation, operation of equipment and material application.
  - 3. Locate where directed.
  - 4. Do not proceed with work prior to receipt of written acceptance of mock-up.
  - 5. When accepted, mock-up will demonstrate minimum standard of quality required for this work. Approved mock-up may remain part of finished work.

#### 1.08 DELIVERY, STORAGE & HANDLING

- A. Delivery and Acceptance Requirements:
  - 1. Deliver material in accordance with manufacturer's written instructions.
  - 2. Deliver materials in manufacturer's original packaging with identification labels intact and in sizes to suit project.

B. Storage and Handling Requirements:

1. Store materials protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.

1.09 FIELD CONDITIONS

A. Ambient Conditions:

1. Installation Location: Assemble and erect components only when temperatures are above 55 degrees F.
2. Maintain materials, substrates and surrounding air temperature between 90 degrees F and 70 degrees F prior to, during, and 48 hours after completion.

**PART 2 PRODUCTS**

a) RESINOUS FLOORING SYSTEMS

i) Basis of Design Manufacturer: Elite Crete Systems, Inc.

- (1) Contact: 1151 Transport Drive, Valparaiso, IN 46383; Telephone: 888-323-4445, Telephone: 219-465-7671, E-mail: info@elitecrete.com, Website: www.elitecrete.com.
- (2) Single Source Responsibility: Provide components and materials specified in this section from a single manufacturer.
- (3) Substitution Limitations:
  - (a) Substitutions: In accordance with Section 01300 – Substitutions. No substitutions permitted after project award.

ii) Description:

- (1) Compatibility:
  - (a) Ensure components and materials are compatible with specified accessories and adjacent materials.

iii) Silica Quartz Resinous Floor Coating:

- (1) Primer: E-100-VB5™ if required.
- (2) Base Coat: [E100-PT4™] [E100-VR4™] [E100-UL7™] [E100-PT1™] [E100-UV1™] [E100-VR1™] – FAST set options available for some products.
  - (a) Color: As selected by the Architect.
- (3) Silca Quartz.
  - a. Size: As selected by the Architect.
- (4) Body Coat: [E100-PT4™] [E100-VR4™] [E100-UL7™] [E100-PT1™] [E100-UV1™] [E100-VR1™] – FAST set options available for some products.

Specifier Note: Protective coat is optional, recommended by manufacturer.

- (5) Protective Top Coat: [SPARTIC-ALL™ RM] [AUS-V™ (Used only with E100 products)]
  - (a) Sheen: AUS-V™ - Satin.
  - (b) Sheen: SPARTIC-ALL™ RM - Satin.

iv) Materials:

- (1) Primer: E100-VB5™ if required.

- (a) Percent Solids ASTM D3960: 58%
  - (b) VOC Content ASTM D3960: 0 g/l
  - (c) Pull-Off Adhesion ASTM D7234: 97% RH Substrate failure > 310 psi.
  - (d) Bond Strength ASTM D4541: Substrate failure >450 psi.
- (2) Base Coat: [E100-PT4™] [E100-VR4™] [E100-UL7™] [E100-PT1™] [E100-UV1™] [E100-VR1™] – FAST set options available for some products.
- (a) Percent Solids ASTM D3960: 100%.
  - (b) VOC Content ASTM D3960: 0 g/l
  - (c) Compressive Strength (ASTM D695): \*
  - (d) Tensile Strength (ASTM D638): \*
  - (e) Flexural Strength (ASTM D790): \*
  - (f) Shore D Hardness (ASTM D2240): \*

*(\*) While individual product/component testing results are available, these testing results are insignificant in relationship to the completed protective system. Performance testing results are available by contacting a technical representative, or by visiting [www.elitecrete.com/technical-data/](http://www.elitecrete.com/technical-data/)*

- (3) Silca Quartz
- (a) Size: As selected by the Architect.
- (4) Body Coat: [E100-PT4™] [E100-VR4™] [E100-UL7™] [E100-PT1™] [E100-UV1™] [E100-VR1™] – FAST set options available for some products.
- (a) Percent Solids ASTM D3960: 100%
  - (b) VOC Content ASTM D3960: 0 g/l \*
  - (c) Compressive Strength (ASTM D695): \*
  - (d) Tensile Strength (D638): \*
  - (e) Abrasion Resistance (ASTM D4060): \*
  - (f) Flexural Strength (ASTM D790): \*
  - (g) Shore D Hardness (ASTM D2240): \*

*(\*) While individual product/component testing results are available, these testing results are insignificant in relationship to the completed protective system. Performance testing results are available by contacting a technical representative, or by visiting [www.elitecrete.com/technical-data/](http://www.elitecrete.com/technical-data/)*

- (5) Protective Top Coat: [SPARTIC-ALL™ RM] [AUS-V™ (used only with E100 products)]
- (a) Percent Solids ASTM D2369: \*
  - (b) VOC Content ASTM D2369: 0 g/l \*
  - (c) Abrasion Resistance (ASTM D4060): \*
  - (d) Flexibility ASTM D522: \*
  - (e) Adhesion to E100-PT1™, E100-UV1™, E100-VR1™ (ASTM D4541): Substrate failure >450 psi.
  - (f) Water Spot Resistance Watch Glass - 24 hrs. - No water spotting: No water spotting.
  - (g) Blush Resistance ASTM 4640 - No amine blush.

*(\*) While individual product/component testing results are available, these testing results are insignificant in relationship to the completed protective system. Performance testing results are available by contacting a technical representative, or by visiting [www.elitecrete.com/technical-data/](http://www.elitecrete.com/technical-data/)*

A. Mixes:

1. Mix components in accordance with manufacturer's written instructions.

**PART 3 EXECUTION**

3.01 EXAMINATION

- A. Verification of Conditions: Verify that conditions of substrates previously installed under other sections or contracts are acceptable for product installation in accordance with manufacturer's instructions prior to fluid-applied flooring installation.
  - 1. Inform Owner & Architect of unacceptable conditions immediately upon discovery.
  - 2. Proceed with installation only after unacceptable conditions have been remedied.

3.02 PREPARATION

- A. Surface Preparation: Prepare surface in accordance with manufacturer's written recommendations.

3.03 APPLICATION

- A. Apply components in accordance with manufacturer's written instructions.

3.04 CLEANING

- A. Perform cleanup as required.
- B. Upon completion, remove surplus materials, rubbish, tools and equipment.

3.05 PROTECTION

- A. Protect installed product from damage during construction.
- B. Repair damage to adjacent materials caused by installation.

**END OF SECTION**

**SECTION 087100 – DOOR HARDWARE**

**PART 1 - GENERAL**

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes:
  - 1. Mechanical and electrified door hardware for Swinging Doors
  - 2. Electronic access control system components, including electronic access control devices as specified in Part 3 Hardware Schedule.
  - 3. Field verification, preparation and modification of existing doors and frames to receive new door hardware.
- B. Exclusions: Unless specifically listed in hardware sets, hardware is not specified in this section for:
  - 1. Windows
  - 2. Cabinets (casework), including locks in cabinets
  - 3. Signage
  - 4. Toilet accessories
  - 5. Overhead doors
- C. Related Sections:
  - 1. Division 01 Section “Alternates” for alternates affecting this section.
  - 2. Division 07 Section “Joint Sealants” for sealant requirements applicable to threshold installation specified in this section.
  - 3. Division 09 sections for touchup finishing or refinishing of existing openings modified by this section.
  - 4. Division 26 sections for connections to electrical power system and for low-voltage wiring.
  - 5. Division 28 sections for coordination with other components of electronic access control system.

1.3 REFERENCES

- A. UL - Underwriters Laboratories
  - 1. UL 10B - Fire Test of Door Assemblies
  - 2. UL 10C - Positive Pressure Test of Fire Door Assemblies
  - 3. UL 1784 - Air Leakage Tests of Door Assemblies
  - 4. UL 305 - Panic Hardware
- B. DHI - Door and Hardware Institute
- C. ANSI - American National Standards Institute
  - 1. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties

D. Regulatory standards of the following as referenced:

1. Department of Justice, Office of the Attorney General, Americans with Disabilities Act, Public Law 101-336 (ADA).
2. CABO/ANSI A117.1: Providing Accessibility and Usability for Physically Handicapped People.

1.4 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 requirements.
2. Highlight, encircle, or otherwise specifically identify on submittals deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.
3. Prior to forwarding submittal, comply with procedures for verifying existing door and frame compatibility for new hardware, as specified in PART 3, "EXAMINATION" article, herein.

B. Action Submittals:

1. Product Data: Product data including manufacturers' technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
  - a. Wiring Diagrams: For power, signal, and control wiring and including:
    - 1) Details of interface of electrified door hardware and building safety and security systems.
    - 2) Schematic diagram of systems that interface with electrified door hardware.
    - 3) Point-to-point wiring.
    - 4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample or sample installations of each type of exposed hardware unit in finish indicated, and tagged with full description for coordination with schedule.
  - a. Samples will be returned to supplier in like-new condition. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
4. Door Hardware Schedule: Submit schedule with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule as published by the Door and Hardware Institute. Indicate complete designations of each item required for each door or opening, include:
  - a. Door Index; include door number, heading number, and Architects hardware set number.
  - b. Opening Lock Function Spreadsheet: List locking device and function for each opening.
  - c. Type, style, function, size, and finish of each hardware item.
  - d. Name and manufacturer of each item.
  - e. Fastenings and other pertinent information.
  - f. Location of each hardware set cross-referenced to indications on Drawings.
  - g. Explanation of all abbreviations, symbols, and codes contained in schedule.
  - h. Mounting locations for hardware.
  - i. Door and frame sizes and materials.
  - j. Name and phone number for local manufacturer's representative for each product.
  - k. Operational Description of openings with any electrified hardware (locks, exits, electromagnetic locks, electric strikes, automatic operators, door position switches, magnetic holders or closer/holder units, and access control components). Operational description should include how door will operate on egress, ingress, and fire and smoke alarm connection.



- 1) Submittal Sequence: Submit door hardware schedule concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work that is critical in Project construction schedule.

5. Key Schedule:

- a. After Keying Conference, provide keying schedule listing levels of keying as well as explanation of key system's function, key symbols used and door numbers controlled.
- b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
- c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
- d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
- e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion.
  - 1) Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
- f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.

6. Templates: After final approval of hardware schedule, provide templates for doors, frames and other work specified to be factory prepared for door hardware installation.

C. Informational Submittals:

1. Qualification Data: For Supplier, Installer and Architectural Hardware Consultant.
2. Product Certificates for electrified door hardware, signed by manufacturer:
  - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
3. Certificates of Compliance:
  - a. Certificates of compliance for fire-rated hardware and installation instructions if requested by Architect or Authority Having Jurisdiction.
  - b. Installer Training Meeting Certification: Letter of compliance, signed by Contractor, attesting to completion of installer training meeting specified in "QUALITY ASSURANCE" article, herein.
  - c. Electrified Hardware Coordination Conference Certification: Letter of compliance, signed by Contractor, attesting to completion of electrified hardware coordination conference, specified in "QUALITY ASSURANCE" article, herein.
4. Product Test Reports: For compliance with accessibility requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by qualified testing agency, for door hardware on doors located in accessible routes.
5. Warranty: Special warranty specified in this Section.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
  - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.

- b. Catalog pages for each product.
- c. Name, address, and phone number of local representative for each manufacturer.
- d. Parts list for each product.
- e. Final approved hardware schedule, edited to reflect conditions as-installed.
- f. Final keying schedule
- g. Copies of floor plans with keying nomenclature
- h. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.
- i. Copy of warranties including appropriate reference numbers for manufacturers to identify project.

## 1.5 QUALITY ASSURANCE

- A. Product Substitutions: Comply with product requirements stated in Division 01 and as specified herein.
  1. Where specific manufacturer's product is named and accompanied by "No Substitute," including make or model number or other designation, provide product specified. (Note: Certain products have been selected for their unique characteristics and particular project suitability.)
    - a. Where no additional products or manufacturers are listed in product category, requirements for "No Substitute" govern product selection.
  2. Where products indicate "acceptable manufacturers" or "acceptable manufacturers and products", provide product from specified manufacturers, subject to compliance with specified requirements and "Single Source Responsibility" requirements stated herein.
- B. Supplier Qualifications and Responsibilities: Recognized architectural hardware supplier with record of successful in-service performance for supplying door hardware similar in quantity, type, and quality to that indicated for this Project and that provides certified Architectural Hardware Consultant (AHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
  1. Warehousing Facilities: In Project's vicinity.
  2. Scheduling Responsibility: Preparation of door hardware and keying schedules.
  3. Engineering Responsibility: Preparation of data for electrified door hardware, including Shop Drawings, based on testing and engineering analysis of manufacturer's standard units in assemblies similar to those indicated for this Project.
  4. Coordination Responsibility: Coordinate installation of electronic security hardware with Architect and electrical engineers and provide installation and technical data to Architect and other related subcontractors.
    - a. Upon completion of electronic security hardware installation, inspect and verify that all components are working properly.
- C. Installer Qualifications: Qualified tradesmen, skilled in application of commercial grade hardware with record of successful in-service performance for installing door hardware similar in quantity, type, and quality to that indicated for this Project.
- D. Architectural Hardware Consultant Qualifications: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
  1. For door hardware, DHI-certified, Architectural Hardware Consultant (AHC).
  2. Can provide installation and technical data to Architect and other related subcontractors.
  3. Can inspect and verify components are in working order upon completion of installation.
  4. Capable of producing wiring diagrams.

5. Capable of coordinating installation of electrified hardware with Architect and electrical engineers.
- E. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.
1. Provide electrified door hardware from same manufacturer as mechanical door hardware, unless otherwise indicated.
  2. Manufacturers that perform electrical modifications and that are listed by testing and inspecting agency acceptable to authorities having jurisdiction are acceptable.
- F. Fire-Rated Door Openings: Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
- G. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
- H. Electrified Door Hardware: Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
- I. Accessibility Requirements: For door hardware on doors in an accessible route, comply with governing accessibility regulations cited in "REFERENCES" article, herein.
- J. Keying Conference: Conduct conference at Project site to comply with requirements in Division 01.
1. Attendees: Owner, Contractor, Architect, Installer, Owner's security consultant, and Supplier's Architectural Hardware Consultant.
  2. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
    - a. Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
    - b. Preliminary key system schematic diagram.
    - c. Requirements for key control system.
    - d. Requirements for access control.
    - e. Address for delivery of keys.
- K. Pre-installation Conference: Conduct conference at Project site.
1. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  2. Inspect and discuss preparatory work performed by other trades.
  3. Inspect and discuss electrical roughing-in for electrified door hardware.
  4. Review sequence of operation for each type of electrified door hardware.
  5. Review required testing, inspecting, and certifying procedures.
- L. Coordination Conferences:
1. Installation Coordination Conference: Prior to hardware installation, schedule and hold meeting to review questions or concerns related to proper installation and adjustment of door hardware.
    - a. Attendees: Door hardware supplier, door hardware installer, Contractor.
    - b. After meeting, provide letter of compliance to Architect, indicating when meeting was held and who was in attendance.

2. Electrified Hardware Coordination Conference: Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.
  - a. Attendees: electrified door hardware supplier, doors and frames supplier, electrified door hardware installer, electrical subcontractor, Owner, Owner's security consultant, Architect and Contractor.
  - b. After meeting, provide letter of compliance to Architect, indicating when coordination conference was held and who was in attendance.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package.
  1. Deliver each article of hardware in manufacturer's original packaging.
- C. Project Conditions:
  1. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
  2. Provide secure lock-up for door hardware delivered to Project, but not yet installed. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- D. Protection and Damage:
  1. Promptly replace products damaged during shipping.
  2. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work.
  3. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- E. Final keys and cores to be furnished by Owner.

#### 1.7 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete. Concrete, reinforcement, and formwork requirements are specified in Division 03.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.
- E. Existing Openings: Where hardware components are scheduled for application to existing construction or where modifications to existing door hardware are required, field verify existing conditions and coordinate installation of door hardware to suit opening conditions and to provide proper door operation.

F. Direct shipments not permitted, unless approved by Contractor.

## 1.8 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
1. Warranty Period: Years from date of Substantial Completion, for durations indicated.
    - a. Closers: 30 years.
    - b. Locksets: 10 years.
    - c. Continuous Hinges: Lifetime warranty.
  2. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.

## 1.9 MAINTENANCE TOOLS

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and particular project suitability to insure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category shall be in accordance with QUALITY ASSURANCE article, herein.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Hand of Door: Drawings show direction of slide, swing, or hand of each door leaf. Furnish each item of hardware for proper installation and operation of door movement as shown.
- E. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

### 2.2 MATERIALS

- A. Fasteners

1. Provide hardware manufactured to conform to published templates, generally prepared for machine screw installation.
  2. Furnish screws for installation with each hardware item. Finish exposed (exposed under any condition) screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.
  3. Provide concealed fasteners for hardware units exposed when door is closed except when no standard units of type specified are available with concealed fasteners. Do not use thru-bolts for installation where bolt head or nut on opposite face is exposed in other work unless thru-bolts are required to fasten hardware securely. Review door specification and advise Architect if thru-bolts are required.
  4. Install hardware with fasteners provided by hardware manufacturer.
- B. Modification and Preparation of Existing Doors: Where existing door hardware is indicated to be removed and reinstalled.
1. Provide necessary fillers, Dutchmen, reinforcements, and fasteners, compatible with existing materials, as required for mounting new opening hardware and to cover existing door and frame preparations.
  2. Use materials which match materials of adjacent modified areas.
  3. When modifying existing fire-rated openings, provide materials permitted by NFPA 80 as required to maintain fire-rating.
- C. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- D. Cable and Connectors: Hardwired Electronic Access Control Lockset and Exit Device Trim:
1. Data: 24AWG, 4 conductor shielded, Belden 9843, 9841 or comparable.
  2. DC Power: 18 AWG, 2 conductor, Belden 8760 or comparable.
  3. Provide type of data and DC power cabling required by access control device manufacturer for this installation.
  4. Where scheduled in the hardware sets, provide each item of electrified hardware with wire harnesses with sufficient number and wire gauge with standardized Molex plug connectors to accommodate electric function of specified hardware. Provide Molex connectors that plug directly into connectors from harnesses.

## 2.3 HINGES

- A. Manufacturers and Products:
1. Scheduled Manufacturer and Product: Ives
  2. Acceptable Manufacturers and Products: Hager, PBB
- B. Requirements:
1. Provide five-knuckle, ball bearing hinges conforming to ANSI/BHMA A156.1.
  2. Doors up to 36 inches wide provide standard weight steel-based hinges sized 4-1/2 inches high and 4-1/2 inches wide.
  3. Doors 36 inches wide or more provide standard weight steel-based hinges sized 5 inches high and 4-1/2 inches wide.
  4. Provide three hinges per door leaf for doors 90 inches or less in height, and one additional hinge for each 30 inches of additional door height.
  5. Where new hinges are specified for existing doors or existing frames, provide new hinges of identical size to hinge preparation present in existing door or existing frame.
  6. Hinge Pins: Except as otherwise indicated, provide steel based hinge pins as follows:

- a. Out-Swinging Lockable Doors: Non-removable pins
- b. In-Swinging or Non-lockable Doors: Non-rising pins

## 2.4 CYLINDRICAL LOCKS – GRADE 1

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Schlage ND Series, Owner Standard

### B. Requirements:

1. Provide Schlage ND Series cylindrical locks conforming to the following standards and requirements:
  - a. ANSI/BHMA A156.2 Series 4000, Grade 1.
  - b. UL 10C for 4'-0" x 10'-0" 3-hour fire door.
  - c. Florida Building Code (ASTM E330, E1886, E1996) and Miami Dade (TAS 201, 202, 203) requirements for hurricanes.
2. Cylinders: Refer to "KEYING" article, herein.
3. Provide cylindrical locksets exceeding the ANSI/BHMA A156.2 Grade 1 performance standards for strength, security, and durability in the categories below:
  - a. Abusive Locked Lever Torque Test – minimum 3,100 inch-pounds without gaining access
  - b. Offset lever pull – minimum 1,600 foot pounds without gaining access
  - c. Vertical lever impact – minimum 100 impacts without gaining access
  - d. Cycle life - tested to minimum 16 million cycles per ANSI/BHMA A156.2 Cycle Test with no visible lever sag or use of performance aids such as set screws or spacers.
4. Provide solid steel anti-rotation through bolts and posts to control excessive rotation of lever.
5. Provide lockset that allows lock function to be changed to over twenty other common functions by swapping easily accessible parts.
6. Provide locks with standard 2-3/4 inches backset, unless noted otherwise, with 1/2 inch latch throw capable of UL listing of 3 hours on a 4' x 10' opening. Provide proper latch throw for UL listing at pairs.
7. Provide locksets with separate anti-rotation thru-bolts, and no exposed screws.
8. Provide independently operating levers with two external return spring cassettes mounted under roses to prevent lever sag.
9. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim.
10. Lever Trim: Solid cast levers without plastic inserts, and wrought roses on both sides. Lever Design: Schlage Athens.

## 2.5 ELECTRIC STRIKES

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: Trine 4800 series, Von Duprin 6400 series
2. Acceptable Manufacturer and Product: HES 9400 series

### B. Requirements:

1. Provide electric strikes designed for use with type of locks shown at each opening.
2. Provide electric strikes UL Listed as burglary-resistant.
3. Where required, provide electric strikes UL Listed for fire doors and frames.
4. Provide fail-secure type electric strikes, unless specified otherwise.
5. Coordinate voltage and provide transformers and rectifiers for each strike as required.

## 2.6 EXIT DEVICES

### A. Manufacturer and Product:

1. Scheduled Manufacturer: Von Duprin 98 series, Owner Standard

### B. Requirements:

1. Provide exit devices tested to ANSI/BHMA A156.3-2014 Grade 1, and UL listed for Panic Exit or Fire Exit Hardware. Cylinders: Refer to "KEYING" article, herein.
2. Provide touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
3. Quiet Operation: Incorporate fluid damper or other device that eliminates noise of exit device operation.
4. Touchpad: Extend minimum of one half of door width, but not the full length of exit device rail. Provide flush end-cap with two-point attachment to door. Match exit device finish, stainless steel for US26, US26D, US28, US32, and US32D finishes; and for all other finishes, provide compatible finish to exit device. Provide compression springs in devices, latches, and outside trims or controls; tension springs prohibited.
5. Provide rim devices with a dual cylinder or inside thumb turn cylinder option with a visual security indicator that identifies the trims locked/unlocked status of the door from the inside of the room. Indicator in unlocked state presents a 1/2 inch x 1/2 inch white metal flag with black icon at top of device head. Indicator in locked state has no flag present. Provide rim devices without the dual cylinder or inside thumb turn cylinder option capable of being retrofitted with the visual security indicator.
6. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrical requirements.
7. Provide exit devices with manufacturer's approved strikes.
8. Provide exit devices cut to door width and height. Locate exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
9. Mount mechanism case flush on face of doors, or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
10. Provide hex-key dogging at non-fire-rated exit devices, unless specified less dogging.
11. Removable Mullions: 2 inches x 3 inches steel tube. Where scheduled as keyed removable mullion that is removed by use of a keyed cylinder, which is self-locking when re-installed.
12. Where lever handles are specified as outside trim for exit devices, provide heavy-duty lever trims with forged or cast escutcheon plates. Provide vandal-resistant levers that will travel to 90-degree down position when more than 35 pounds of torque are applied, and which can easily be re-set. Lever Style: 07 to match lever style of locksets.
13. Provide UL labeled fire exit hardware for fire rated openings.

## 2.7 CYLINDERS

### A. Manufacturers:

1. Scheduled Manufacturer: Schlage, Owner Standard

### B. Requirements:

1. Provide 6-pin interchangeable cylinders to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision, Section 12, Grade 1; permanent cylinders; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.
2. Replaceable Construction Cores.



- a. Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
  - 1) 3 construction control keys
  - 2) 12 construction change (day) keys.
- b. Owner or Owner's Representative will replace temporary construction cores with permanent cores.

## 2.8 KEYING

A. Provide cylinders/cores keyed into Owner's existing keying system managed by Owner's locksmith, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference, if desired by Owner, and if Owner is not providing permanent cores.

B. Requirements:

1. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.

Master Keying system as directed by the Owner.

2. Forward biting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements shall be cause for replacement of cylinders/cores involved at no additional cost to Owner.

3. Provide keys with the following features:

- a. Material: Nickel silver; minimum thickness of .107-inch

4. Identification:

- a. Mark permanent cylinders/cores and keys with applicable blind code per DHI publication "Keying Systems and Nomenclature" for identification. Blind code marks shall not include actual key cuts.

- b. Identification stamping provisions must be approved by the Architect and Owner.

- c. Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.

- d. Failure to comply with stamping requirements shall be cause for replacement of keys involved at no additional cost to Owner.

- e. Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.

5. Quantity: Furnish in the following quantities.

- a. Change (Day) Keys: 3 per cylinder/core.

- b. Permanent Control Keys: 3.

- c. Master Keys: 6.

## 2.9 KEY CONTROL SYSTEM

A. Manufacturers:

1. Scheduled Manufacturer: Telkee

2. Acceptable Manufacturers: HPC, Lund

B. Requirements:

1. Provide key control system, including envelopes, labels, tags with self-locking key clips, receipt forms, 3-way visible card index, temporary markers, permanent markers, and standard metal cabinet, all as recommended by system manufacturer, with capacity for 150% of number of locks required for Project.
  - a. Provide complete cross index system set up by hardware supplier, and place keys on markers and hooks in cabinet as determined by final key schedule.
  - b. Provide hinged-panel type cabinet for wall mounting.

## 2.10 DOOR CLOSERS

### A. Manufacturers and Products:

1. Scheduled Manufacturer and Product: LCN 4040XP SCUSH series, Owner Standard.

### B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2 inch diameter with 3/4 inch diameter double heat-treated pinion journal.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

## 2.11 PROTECTION PLATES

### A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Trimco, Burns

### B. Requirements:

1. Provide kick plates, mop plates, and armor plates minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes of plates:
  - a. Kick Plates: 10 inches high by 2 inches less width of door on single doors, 1 inch less width of door on pairs
  - b. Mop Plates: 10 inches high by 2 inches less width of door on single doors, 1 inch width of door on pairs

2.12 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer: Ives
2. Acceptable Manufacturers: Trimco, Burns

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide convex type where mortise type locks are used and concave type where cylindrical type locks are used.
2. Where a wall stop cannot be used, provide universal floor stops for low or high rise options.
3. Where wall or floor stop cannot be used, provide medium duty surface mounted overhead stop.

2.13 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer: Zero International
2. Acceptable Manufacturers: National Guard, Reese

B. Requirements:

1. Provide thresholds, weather-stripping (including door sweeps, seals, and astragals) and gasketing systems (including smoke, sound, and light) as specified and per architectural details. Match finish of other items.
2. Size of thresholds:
  - a. Saddle Thresholds: 1/2 inch high by jamb width by door width
  - b. Bumper Seal Thresholds: 1/2 inch high by 5 inches wide by door width
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.

2.14 FINISHES

A. Finish: BHMA 626/652 (US26D); except:

1. Hinges at Exterior Doors: BHMA 630 (US32D)
2. Continuous Hinges: BHMA 628 (US28)
3. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
4. Protection Plates: BHMA 630 (US32D)
5. Door Closers: BHMA 689 Powder Coat to Match
6. Wall Stops: BHMA 630 (US32D)
7. Latch Protectors: BHMA 630 (US32D)
8. Weatherstripping: Clear Anodized Aluminum
9. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.
- B. Existing Door and Frame Compatibility: Field verify existing doors and frames receiving new hardware and existing conditions receiving new openings. Verify that new hardware is compatible with existing door and frame preparation and existing conditions.
- C. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Where on-site modification of doors and frames is required:
  - 1. Carefully remove existing door hardware and components being reused. Clean, protect, tag, and store in accordance with storage and handling requirements specified herein.
  - 2. Field modify and prepare existing door and frame for new hardware being installed.
  - 3. When modifications are exposed to view, use concealed fasteners, when possible.
  - 4. Prepare hardware locations and reinstall in accordance with installation requirements for new door hardware and with:
    - a. Steel Doors and Frames: For surface applied door hardware, drill and tap doors and frames according to ANSI/SDI A250.6.
    - b. Wood Doors: DHI WDHS.5 "Recommended Hardware Reinforcement Locations for Mineral Core Wood Flush Doors."
    - c. Doors in rated assemblies: NFPA 80 for restrictions on on-site door hardware preparation.

3.3 INSTALLATION

- A. Mounting Heights: Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
  - 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
  - 2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
- B. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- C. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- D. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

- E. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- F. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- G. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated or one hinge for every 30 inches of door height, whichever is more stringent, unless other equivalent means of support for door, such as spring hinges or pivots, are provided.
- H. Lock Cylinders: Install construction cores to secure building and areas during construction period.
  - 1. Owner to provide permanent cores.
- I. Wiring: Coordinate with Division 26, ELECTRICAL sections for:
  - 1. Conduit, junction boxes and wire pulls.
  - 2. Connections to and from power supplies to electrified hardware.
  - 3. Connections to fire/smoke alarm system and smoke evacuation system.
  - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
  - 5. Testing and labeling wires with Architect's opening number.
- J. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- K. Door Closers: Mount closers as parallel SCUSH closers per Owner request.
- L. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."
- M. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- N. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- O. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- P. Door Bottoms: Apply to bottom of door, forming seal with threshold when door is closed.

### 3.4 FIELD QUALITY CONTROL

- A. Architectural Hardware Consultant: Engage qualified independent Architectural Hardware Consultant to perform inspections and to prepare inspection reports.
  - 1. Architectural Hardware Consultant will inspect door hardware and state in each report whether installed work complies with or deviates from requirements, including whether door hardware is properly installed and adjusted.

### 3.5 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust

door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

1. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
2. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.

- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, Installer's Architectural Hardware Consultant shall examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors, door hardware, and electrified door hardware.

### 3.6 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items as necessary to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

### 3.7 DEMONSTRATION

- A. Provide training for Owner's maintenance personnel to adjust, operate, and maintain door hardware and door hardware finishes. Refer to Division 01 Section "Demonstration and Training."

### 3.8 DOOR HARDWARE SCHEDULE

SECTION 087100  
Door Hardware

HW SET: AL-01

DOOR #(S):

100

EACH TO HAVE:

1	EA	PIVOT SET	DOOR MFR STD		
1	EA	PANIC HARDWARE	98-NL-OP-SNB	626	VON
1	EA	PERMANENT CORE	BY OWNER		
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	90 DEG OFFSET PULL	8190HD 10" O	630	IVE
1	EA	ELECTRIC STRIKE	4800F FSE	630	TRN
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	SEALS	FRAME MFR STD		
1	EA	DOOR SWEEP	DOOR MFR STD		
1	EA	THRESHOLD	545A-223	A	ZER
1	EA	CARD READER	BY ACCESS CONTROL		
1	EA	POWER SUPPLY	BY ACCESS CONTROL		

COORDINATE WITH ACCESS CONTROL AND ELECTRICAL.

OPERATION: VALID CREDENTIAL AT READER RELEASES STRIKE FOR AUTHORIZED ENTRY. FREE EGRESS AT ALL TIMES. FAIL SECURE.

HW SET: 01

DOOR #(S):

101                      110                      111

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK	L9444 07A 09-544 OS-OCC	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	MOP PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

NOTE: CLOSER ARM IS OWNER REQUEST.

HW SET: 02

DOOR #(S):

103                      104                      116

EACH TO HAVE:

3	EA	HEAVY WT. HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	PUSH PLATE	8200 6" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

NOTE: CLOSER ARM OWNER REQUEST.

HW SET: 03—NOT USED

HW SET: 04

DOOR #(S):

105

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ND80TD ATH	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	
1	EA	ELECTRIC STRIKE	6400 FSE	630	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	CARD READER	BY ACCESS CONTROL		
1	EA	POWER SUPPLY	BY ACCESS CONTROL		

COORDINATE WITH ACCESS CONTROL AND ELECTRICAL.

OPERATION: VALID CREDENTIAL AT READER RELEASES STRIKE FOR AUTHORIZED ENTRY. FREE EGRESS AT ALL TIMES. FAIL SECURE.

HW SET: 05

DOOR #(S):

106 107

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE/OFFICE LOCK	ND50TD ATH	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 06

DOOR #(S):

108 123

EACH TO HAVE:

3	EA	HEAVY WT. HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	98-NL-SNB	626	VON
1	EA	PERMANENT CORE	BY OWNER		
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	ELECTRIC STRIKE	4800F FSE	630	TRN
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER
1	EA	CARD READER	BY ACCESS CONTROL		
1	EA	POWER SUPPLY	BY ACCESS CONTROL		

COORDINATE WITH ACCESS CONTROL AND ELECTRICAL.

OPERATION: VALID CREDENTIAL AT READER RELEASES STRIKE FOR AUTHORIZED ENTRY. FREE EGRESS AT ALL TIMES. FAIL SECURE.



SECTION 087100  
Door Hardware

HW SET: 07

DOOR #(S):

109

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	CLASSROOM LOCK	ND70TD ATH	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 08

DOOR #(S):

112

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	ND80TD ATH	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	
1	EA	LOCK GUARD	LG13	630	IVE
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

COORDINATE HARDWARE WITH EXISTING DOOR PREPS. MATCH HINGE SIZE AND WEIGHT TO EXISTING FRAME PREP.

HW SET: 09

DOOR #(S):

113

114

115

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S ATH	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

HW SET: 10

DOOR #(S):

117

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PASSAGE SET	ND10S ATH	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

SECTION 087100  
Door Hardware

HW SET: 11

DOOR #(S):

118

EACH TO HAVE:

3	EA	HEAVY WT. HINGE	5BB1HW 4.5 X 4.5	630	IVE
1	EA	PANIC HARDWARE	98-L-BE-F-07-SNB	626	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	655A-223	A	ZER

HW SET: 12

DOOR #(S):

119

124

EACH TO HAVE:

3	EA	HEAVY WT. HINGE	5BB1HW 4.5 X 4.5 NRP	630	IVE
1	EA	PANIC HARDWARE	98-EO-SNB	626	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	188SBK PSA	BK	ZER
1	EA	DOOR SWEEP	8192AA	AA	ZER
1	EA	THRESHOLD	655A-223	A	ZER

PREP FRAME FOR FUTURE ELECTRIC STRIKE. INCLUDE CONDUIT AND RACEWAY.

HW SET: 13

DOOR #(S):

120

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5	630	IVE
1	EA	CLASSROOM LOCK	ND70TD ATH	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	
1	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	545A-223	A	ZER

SECTION 087100  
Door Hardware

HW SET: 14  
DOOR #(S):  
121

EACH TO HAVE:

3	EA	HEAVY WT. HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	PUSH PLATE	8200 6" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	AA	ZER
1	EA	THRESHOLD	545A-223	A	ZER

HW SET: 15  
DOOR #(S):  
122

EACH TO HAVE:

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1	EA	STOREROOM LOCK	ND80TD ATH	626	SCH
1	EA	PERMANENT CORE	BY OWNER	626	
1	EA	ELECTRIC STRIKE	6400 FSE	630	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	GASKETING	488SBK PSA	BK	ZER
1	EA	DOOR SWEEP	39A	AA	ZER
1	EA	THRESHOLD	545A-223	A	ZER
1	EA	CARD READER	BY ACCESS CONTROL		
1	EA	POWER SUPPLY	BY ACCESS CONTROL		

COORDINATE WITH ACCESS CONTROL AND ELECTRICAL.  
OPERATION: VALID CREDENTIAL AT READER RELEASES STRIKE FOR AUTHORIZED ENTRY. FREE  
EGRESS AT ALL TIMES. FAIL SECURE.

HW SET: 16  
DOOR #(S):  
102

EACH TO HAVE:

3	EA	HEAVY WT. HINGE	5BB1HW 4.5 X 4.5	652	IVE
1	EA	PANIC HARDWARE	CD-98-NL-SNB	626	VON
2	EA	PERMANENT CORE	BY OWNER		
1	EA	MORTISE CYLINDER	20-061 ICX XQ11-948	626	SCH
1	EA	RIM CYLINDER	20-057 ICX	626	SCH
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

**END OF SECTION**

## SECTION 09301 - TILE

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

- A. Section Includes:

1. Ceramic mosaic tile.
2. Pressed floor tile.
3. Porcelain tile.
4. Glazed wall tile.
5. Glass mosaic tile.
6. Stone thresholds.
7. Tile backing panels.
8. Waterproof membrane for thinset applications.
9. Crack isolation membrane.
10. Metal edge strips.

#### 1.3 REFERENCES

- A. ANSI A108/A1118 Series: American National Standards for Installation of Ceramic Tile.
- B. ANSI A137.1: American National Standard Specifications for Ceramic Tile.
- C. ISO 13007: International Standards Organization; Classification for Grout and Adhesives.
- D. TCNA (HB); Handbook for Ceramic, Glass and Stone Tile Installation; Tile Council of North America.

#### 1.4 DEFINITIONS

- A. Module Size: Actual tile size plus joint width indicated.
- B. Face Size: Actual tile size, excluding spacer lugs.

#### 1.5 PREINSTALLATION MEETINGS

1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
- C. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.
- D. Samples for Initial Selection: For tile, grout, and accessories involving color selection.
- E. Samples for Verification:
  - 1. Full-size units of each type and composition of tile and for each color and finish required. For ceramic mosaic tile in color blend patterns, provide full sheets of each color blend.
  - 2. Full-size units of each type of trim and accessory for each color and finish required.
  - 3. Stone thresholds in 6-inch (150-mm) lengths.
  - 4. Metal edge strips in 6-inch (150-mm) lengths.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.
- C. Product Certificates: For each type of product.
- D. Product Test Reports: For tile-setting and -grouting products and certified porcelain tile.

1.8 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
  - 1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
  - 2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.9 QUALITY ASSURANCE

- A. Manufacturer Qualifications:

1. Provide installation products of this section by companies which have successfully specialized in production of this type for not less than five years.
2. Installation product must have a hydraulic cement-based inorganic binder content to include Portland cement ASTM C150; Standard Specification for Portland Cement and other specialty hydraulic cements. Gypsum-based products are not acceptable.

B. Installer Qualifications:

1. Installer is a five-star member of the National Tile Contractors Association

C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Build mockup of each type of floor tile installation.
2. Build mockup of each type of wall tile installation.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

#### 1.10 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.
- B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.
- C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.
- D. Store liquid materials in unopened containers and protected from freezing.

#### 1.11 FIELD CONDITIONS

- A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

#### 1.12 WARRANTY

- A. System Warranty: Provide a minimum 1 year, non pro-rated, comprehensive warranty for the tile and stone installation products.

### PART 2 - PRODUCTS

#### 2.1 MANUFACTURERS

- A. Source Limitations for Tile: Obtain tile from single source or producer.

1. Obtain tile of each type and color or finish from same production run and of consistent quality in appearance and physical properties for each contiguous area.
- B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
  2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.
- C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
1. Stone thresholds.
  2. Waterproof membrane.
  3. Crack isolation membrane.
  4. Cementitious backer units.
  5. Metal edge strips.

## 2.2 PRODUCTS, GENERAL

- A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.

## 2.3 TILE PRODUCTS

- A. Porcelain Tile Type Floor: Unglazed pressed floor tile.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. Shaw Industries
    - b. Daltile
    - c. American Olean
    - d. Interceramic
  2. Certification: Tile certified by the Porcelain Tile Certification Agency.
  3. Composition: Impervious natural clay or porcelain
  4. Face Size: nominal **12 by 12 inches**
  5. Thickness: 1/4 inch
  6. Face: Plain with square or cushion edges
  7. Dynamic Coefficient of Friction: Not less than 0.42.
  8. Tile Color and Pattern: As selected by Owner from manufacturer's full range
  9. Grout Color: As selected by Owner from manufacturer's full range.
  10. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable **and matching characteristics of adjoining flat tile**. Provide shapes as follows, selected from manufacturer's standard shapes:

- a. Base Cove: Cove, module size **same as adjoining flat tile**.
- b. Base Cap for Thinset Mortar Installations: Surface bullnose, module size **same as adjoining flat tile**.
- c. Wainscot Cap for Thinset Mortar Installations: Surface bullnose, module size **same as adjoining flat tile**.
- d. External Corners for Thinset Mortar Installations: Surface bullnose, module size.
- e. Internal Corners: Cove, module size **same as adjoining flat tile**.

B. Porcelain Tile Type **Wall**: Glazed wall tile. Accent with glass mosaic tile.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. Shaw Industries
  - b. Daltile
  - c. American Olean
  - d. Interceramic
2. Module Size: **Varies – see drawings**
3. Face Size Variation: Rectified.
4. Thickness: 5/16 inch (8 mm).
5. Face: **Plain with modified square edges or cushion edges**
6. Finish: **Bright, opaque** and **Bright, clear** glaze.
7. Tile Color and Pattern: **As selected by Owner from manufacturer's full range**
8. Grout Color: **As selected by Owner from manufacturer's full range**
9. Mounting: Factory, back mounted.
10. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable **and matching characteristics of adjoining flat tile**. Provide shapes as follows, selected from manufacturer's standard shapes:
  - a. Wainscot Cap for Thinset Mortar Installations: 3/8" bullnose edge trim with satin nickel finish
  - b. External Corners for Thinset Mortar Installations: Surface bullnose, same size as adjoining flat tile.
  - c. Internal Corners: Field-buttet square corners. For coved base and cap use angle pieces designed to fit with stretcher shapes.

C. Accessories: Provide vitreous china accessories of type and size indicated, suitable for installing by same method as used for adjoining wall tile.

## 2.4 THRESHOLDS

- A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
  1. Bevel edges at 1:2 slope, with lower edge of bevel aligned with or up to 1/16 inch (1.5 mm) above adjacent floor surface. Finish bevel to match top surface of threshold. Limit height of threshold to 1/4 inch (12.7 mm) or less above adjacent floor surface.
- B. Marble Thresholds: ASTM C 503/C 503M, with a minimum abrasion resistance of **10** according to ASTM C 1353 or ASTM C 241/C 241M and with honed finish.



1. Description: Uniform, fine- to medium-grained white stone with gray veining.

## 2.5 TILE BACKING PANELS

- A. Fiber-Cement Backer Board: ASTM C 1288, in maximum lengths available to minimize end-to-end butt joints.
  1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a. CertainTeed Corporation.
    - b. James Hardie Building Products, Inc.
  2. Thickness: 1/2"

## 2.6 WATERPROOF MEMBRANE

- A. General: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
- B. Latex-Portland Cement Waterproof Mortar: Flexible, waterproof mortar consisting of cement-based mix and latex additive.
  1. Basis-of-Design Product: Subject to compliance with requirements, provide ARDEX GmbH; Ardex 8+9™ Waterproofing Compound or a comparable product by one of the following:
    - a. MAPEI Corporation.
    - b. TEC; H.B. Fuller Construction Products Inc.

## 2.7 CRACK ISOLATION MEMBRANE

- A. General: Manufacturer's standard product that complies with ANSI A118.12. Include reinforcement and accessories recommended by manufacturer.
- B. Latex-Portland Cement Crack-Resistant Mortar: Flexible mortar consisting of cement-based mix and latex additive.
  1. Basis-of-Design Product: Subject to compliance with requirements, provide ARDEX Americas; Ardex 8+9™ Waterproofing and Crack Isolation Compound or a comparable product by one of the following:
    - a. MAPEI Corporation.
    - b. TEC; H.B. Fuller Construction Products Inc.

## 2.8 SETTING MATERIALS

- A. Latex-Portland Cement Mortar (Thinset): ANSI A118.4 and/or conforms with ISO 13007.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide ARDEX Americas; latex-portland cement mortar (thinset) or a comparable product by one of the following:
    - a. Bostik, Inc.
    - b. TEC; H.B. Fuller Construction Products Inc.
  - 2. Provide prepackaged, dry-mortar mix containing dry, redispersible, vinyl acetate or acrylic additive to which only water must be added at Project site.
  - 3. For wall applications, provide mortar that complies with requirements for nonsagging mortar in addition to the other requirements in ANSI A118.4.

## 2.9 GROUT MATERIALS

- A. High-Performance Sanded Tile Grout: ANSI A118.7 and/or conforms to EN 13888 and/or ISO 13007 CG2 WA.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide ARDEX Americas; FL Rapid Set, Flexible Sanded Grout or a comparable product by one of the following:
    - a. Bostik, Inc.
    - b. TEC; H.B. Fuller Construction Products Inc.
  - 2. Polymer Type: Ethylene vinyl acetate or acrylic additive, in dry, redispersible form, prepackaged with other dry ingredients.

## 2.10 MISCELLANEOUS MATERIALS

- A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated. Use same manufacturer as the adhesive manufacturer.
  - 1. Basis-of-Design Product: Subject to compliance with requirements, provide ARDEX Americas; trowelable underlayment or a comparable product by one of the following:
    - a. TEC; H.B. Fuller Construction Products Inc.
- B. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.
- C. Grout Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - a. Custom Building Products.
  - b. TEC; H.B. Fuller Construction Products Inc.

## 2.11 MIXING MORTARS AND GROUT

- A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.
- B. Add materials, water, and additives in accurate proportions.
- C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
  1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
  2. Verify that concrete substrates for tile floors installed with **thinset mortar** comply with surface finish requirements in ANSI A108.01 for installations indicated.
    - a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
    - b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
  3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
  4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with **thinset mortar** with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.
- B. Where indicated, prepare substrates to receive waterproofing by applying a reinforced mortar bed that complies with ANSI A108.1A and is sloped 1/4 inch per foot toward drains.
- C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

### 3.3 CERAMIC TILE INSTALLATION

- A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
  - 1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:
    - a. Exterior tile floors.
    - b. Tile floors in wet areas.
    - c. Tile swimming pool decks.
    - d. Tile floors in laundries.
    - e. Tile floors consisting of tiles 8 by 8 inches (200 by 200 mm) or larger.
    - f. Tile floors consisting of rib-backed tiles.
- B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.
- C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.
- D. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.
- E. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.
- F. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.

1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
  2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
  3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.
- G. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
1. Porcelain Tile: **1/4 inch**
- H. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.
- I. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, as required. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
- J. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.
1. Do not extend **waterproofing or crack isolation membrane** under thresholds set in **dry-set portland cement** mortar. Fill joints between such thresholds and adjoining tile set on **waterproofing or crack isolation membrane** with elastomeric sealant.

### 3.4 TILE BACKING PANEL INSTALLATION

- A. Install panels and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated. **Use latex-portland cement mortar for bonding material unless otherwise directed in manufacturer's written instructions.**

### 3.5 WATERPROOFING INSTALLATION

- A. Install waterproofing to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.
- B. Allow waterproofing to cure and verify by testing that it is watertight before installing tile or setting materials over it.
- C. Provide waterproofing membrane on all walls noted to receive tile. Double coat membrane min. 8" on each side of all wall and floor intersections.

### 3.6 CRACK ISOLATION MEMBRANE INSTALLATION

- A. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate.
- B. Allow crack isolation membrane to cure before installing tile or setting materials over it.

### 3.7 ADJUSTING AND CLEANING

- A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.
- B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
  - 1. Remove grout residue from tile as soon as possible.
  - 2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

### 3.8 PROTECTION

- A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.
- B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.
- C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

END OF SECTION 09301

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**DEMOLITION NOTES:**

- CONTRACTOR IS RESPONSIBLE FOR ALL LOCATION, VERIFICATION, PROTECTION, MAINTENANCE, RELOCATION, REMOVAL OR RENOVATION OF ALL EXISTING UTILITIES, SITE IMPROVEMENTS, STRUCTURES, OBJECTS, OR CONSTRUCTION ELEMENTS REQUIRED TO COMPLETE THE WORK SHOWN ON THE PLANS, NOTES, SPECIFICATIONS, AND CONTRACT DOCUMENTS, WHETHER SHOWN ON THE PLANS OR NOT. ITEMS SHOWN AS [DE], [TR], [TBR], OR OTHERWISE [ ] DESIGNATED ARE SHOWN FOR GENERAL REFERENCE ONLY, AND ARE NOT ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR ALL ITEMS TO BE REMOVED [TBR], ALL ITEMS TO REMAIN [TR], AND ALL ITEMS REQUIRING DEMOLITION [DE], RELOCATION, ALTERATION, AND PROTECTION WHETHER DESIGNATED ON THE PLANS OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING IMPROVEMENTS AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
- CONTRACTOR SHALL COORDINATE AND VERIFY ALL DEMOLITION, REMOVAL, AND ASSOCIATED WORK WITH THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR EXISTING AND PROPOSED BUILDING DEMOLITION, REMOVAL, AND RENOVATION.
- CONTRACTOR SHALL: CONTACT UPC (UTILITIES PROTECTION CENTER) FOR LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. UTILITIES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AND MAY NOT BE ACCURATE. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON PLANS. OBTAIN APPROVAL FROM ALL LOCAL UTILITY AUTHORITIES AND LOCATE, VERIFY, AND COORDINATE ALL REQUIRED CONSTRUCTION FOR ALL UTILITIES WITHIN THE WORK AREA. MAINTAIN UTILITY SERVICE(S) AT ALL TIMES. COORDINATE CONSTRUCTION SEQUENCE ACCORDINGLY. PROVIDE OWNER/ENGINEER COMPLETE RESULTS OF ALL UTILITY LOCATION(S) PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL IMPROVEMENTS, INCLUDING LANDSCAPING, NOT REQUIRING REMOVAL. DAMAGED IMPROVEMENTS SHALL BE RESTORED AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL HAVE PROPERTY CORNERS, RIGHT-OF-WAY, AND BOUNDARY MARKED AND LOCATED. DO NOT ENCRONCH ON ADJACENT PROPERTIES.
- CONTRACTOR SHALL COORDINATE ALL DEMOLITION ADJACENT TO STRUCTURES OR FOUNDATION ELEMENTS WITH THE ARCHITECT AND STRUCTURAL ENGINEER TO ENSURE THAT NO DAMAGE OR DEGRADATION WILL OCCUR.
- CONTRACTOR SHALL BLEND NEW CONSTRUCTION INTO EXISTING IMPROVEMENTS. ALL JUNCTIONS, COMMON POINTS, JOINTS, ETC. SHALL BE BLENDED FOR A SMOOTH TRANSITION. ALL DAMAGED IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO ORIGINAL CONDITION AT NO EXPENSE TO OWNER.
- CONTRACTOR IS RESPONSIBLE FOR THE SAFETY OF THE PUBLIC AND ALL OTHER PERSONS ONSITE AT ALL TIMES. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS AND REGULATIONS.
- SEE DEMOLITION LEGEND SHEET C2.1

**DEMOLITION LEGEND:**

**[CU] COORDINATE UTILITIES:**

CONTACT UTILITY LOCATION AUTHORITY AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION. COORDINATE ALL EXISTING AND PROPOSED UTILITY CONSTRUCTION, REMOVAL, ALTERATION, RENOVATION, OR RELOCATION REQUIRED TO COMPLETE THE WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ALL CONFLICTS, OMISSIONS, OR DISCREPANCIES PRIOR TO CONSTRUCTION.

**[DE] DEMOLITION REQUIRED:**

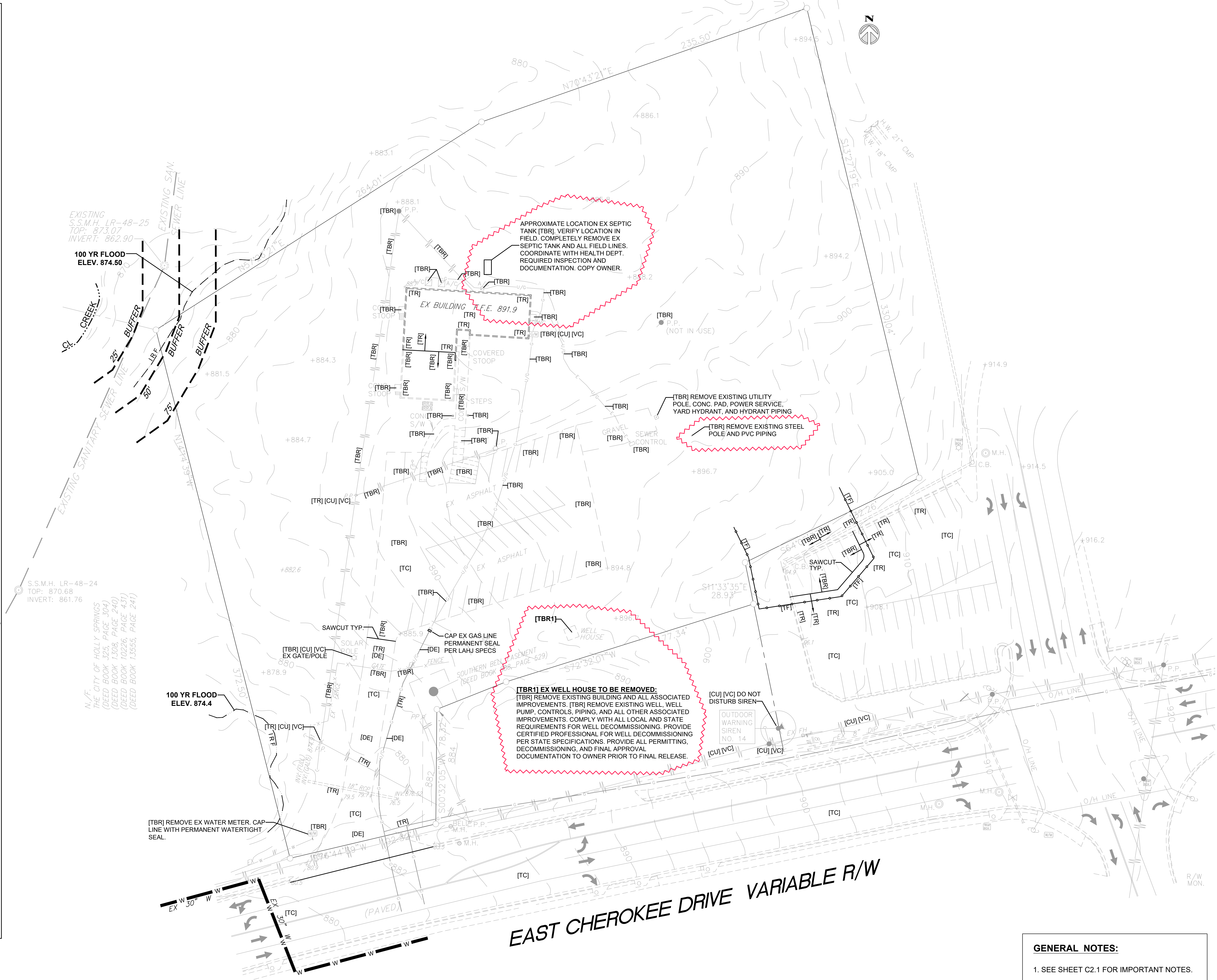
DEMOLITION, ALTERATION, RENOVATION, OR PARTIAL REMOVAL REQUIRED. CONFORM TO APPLICABLE ARCHITECTURAL AND/OR RELATED ENGINEERING PLANS AND SPECIFICATIONS. MAINTAIN UTILITY(S) SERVICE AT ALL TIMES. COORDINATE UTILITIES [CU] WITH APPROPRIATE AUTHORITY.

**[TBR] TO BE REMOVED:**

EXISTING IMPROVEMENT OR ITEM TO BE REMOVED. LOCATE, VERIFY, AND REMOVE. DISPOSE OF OFF SITE IN A LEGAL MANNER. FOR UTILITIES, MAINTAIN SERVICE AT ALL TIMES. COORDINATE ALL UTILITY REMOVAL OR ALTERATION WITH APPROPRIATE UTILITY AUTHORITY.

**[TR] TO REMAIN:**

EXISTING IMPROVEMENT OR ITEM TO REMAIN. LOCATE, VERIFY, MARK, AND PROTECT FROM DAMAGE BY ALL NECESSARY MEANS. FOR UTILITIES, MAINTAIN SERVICE AT ALL TIMES.



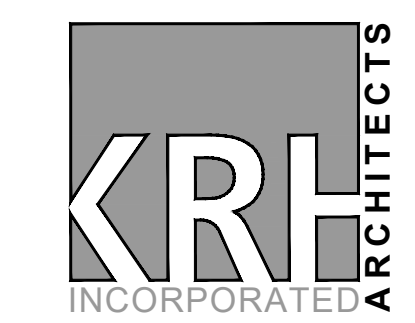
**GENERAL NOTES:**  
1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

PROJECT NUMBER  
**23-017**

DATE  
**09/25/23**

REVISIONS	
NO.	DATE
ADD 2	03/20/24
ADD 4	04/12/24

FACILITY CODE



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

**PWR ENGINEERING**  
CIVIL ENGINEERING  
SITE DEVELOPMENT

2900 DELA ROAD STE 700 #218 • MARIETTA, GA 30067 • PH: 770-433-8190

2017 EAST CHEROKEE DRIVE WOODSTOCK, GA 30188

ISSUE DATE: 03-22-24  
JOB NO. 22280 SCALE: 1" = 30'

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX

DEMOLITION PLAN

SHEET INDEX

**C1.1**

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 (DEED BOOK 231, PAGE 195)  
 (DEED BOOK 735, PAGE 182)  
 (DEED BOOK 1384, PAGE 15)  
 (DEED BOOK 7099, PAGE 29)  
 (DEED BOOK 13535, PAGE 93)

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 (DEED BOOK 7099, PAGE 29)  
 (DEED BOOK 13535, PAGE 93)

P.O.B.  
 STATE PLANE COORDINATES  
 GA WEST ZONE - NAD83(2011)  
 N 1502573.07  
 E 2196912.20

MILL 2" ASPH. INSTALL MIN 2" 9mm GDOT SUPERPAVE ASPH. PER SPECS. SOME AREAS WILL REQUIRE MORE THAN 2" REINLAY. REFER TO GRADING PLAN ELEVATIONS.

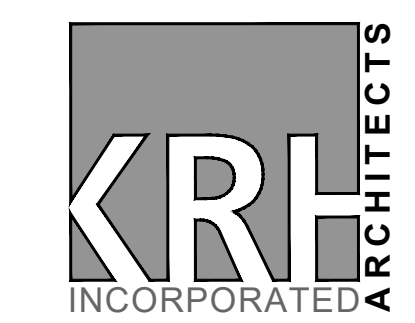
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 (DEED BOOK 13735, PAGE 41)  
 (DEED BOOK 14339, PAGE 1936)

T.B.M.  
 TOP OF I.P.F. (#5R.)  
 ELEV.: 883.5 M.S.L.

**GENERAL NOTES:**  
 1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

PROJECT NUMBER	
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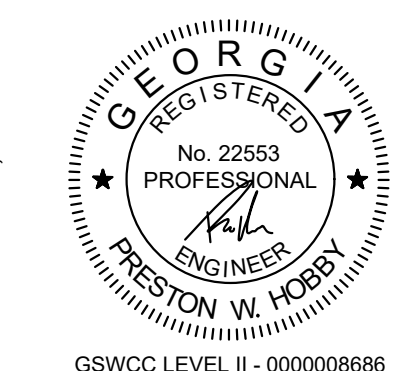
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SITE PLAN

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C2

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**CHEROKEE COUNTY NOTES:**

- ALL WETLANDS OR STATE WATERS ON OR WITHIN 200 FEET OF THIS PROJECT HAVE BEEN DELINEATED.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTRACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLAND THAT IS DISTURBED.
- APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY CHEROKEE COUNTY OF ANY LAND DISTURBING ACTIVITIES THAT MAY IMPACT ANY ENDANGERED SPECIES. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY DISTURBANCE WHICH THIS MAY EFFECT.
- RESERVED
- ANY FILL MATERIAL SUPPORTING STRUCTURAL LOADS SHALL BE ENGINEERED WITH PROPER DOCUMENTATION INCLUDING GEORGIA REGISTERED P.E. STAMP. SUBMIT DOCUMENTATION TO THE CHEROKEE COUNTY BUILDING DEPARTMENT PRIOR TO FOUNDATION INSPECTION.
- SITE DEVELOPMENT AS-BUILT DRAWINGS, CONTAINING A BOUNDARY SURVEY, LOCATION, ELEVATION, HEIGHT, AND SQUARE FOOTAGE OF BUILDING, PARKING AREAS, UTILITIES, RETAINING WALLS, STORMWATER SYSTEM, AND ANY OTHER PERTINENT SITE DEVELOPMENT DATA ARE REQUIRED UPON COMPLETION OF THIS PROJECT. CHEROKEE COUNTY NEEDS THIS INFORMATION BEFORE SITE INSPECTION FOR C.O. IS ISSUED, PER ORDINANCE # 2004-Z-001 (7.5-3.3-H.)
- TEMPORARY GRASSING OR MULCHING IS REQUIRED EVERY (7) SEVEN DAYS.
- AN NOI IS REQUIRED BEFORE APPROVAL. UPLOAD THE FINAL DOCUMENT TO CITYVIEW.
- ADVANCE WARNING SIGNS INDICATING CONSTRUCTION AHEAD SHALL BE PLACED ON CONNECTING THOROUGHFARES AT 1000' AND 500' POINTS ON EITHER SIDE OF THE INTERSECTION. THE SIGNAGE SHALL BE REVIEWED AND APPROVED BY THE COUNTY DEVELOPMENT INSPECTOR.
- AN NOI IS REQUIRED BEFORE APPROVAL. PROVIDE A COPY OF THE FINAL, APPROVED NPDES NOTICE OF INTENT (NOI) ENSURING COMPLIANCE WITH THAT STATE PERMIT AND WRITTEN CONFIRMATION FROM A QUALIFIED PARTY WHO WILL BE RESPONSIBLE FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) COMPLIANCE INSPECTIONS, MONITORING, RECORD KEEPING, ETC. FOR THE DEVELOPMENT.
- NO GRADING ALLOWED WITHIN THE UNDISTURBED STREAM BUFFERS OR ZONING BUFFERS.
- ALL QUALITY CONTROL TESTING WHICH IS A PART OF ROADWAY CONSTRUCTION WILL BE PERFORMED BY A REPUTABLE PROFESSIONAL GEO-TECHNICAL AND TESTING ENGINEERING COMPANY THAT WILL BE EMPLOYED BY THE DEVELOPER AND ALL ASSOCIATED COSTS WILL BE PAID BY THE DEVELOPER.
- AN NOI IS REQUIRED BEFORE APPROVAL. PROVIDE A COPY OF THE FINAL, APPROVED NPDES NOTICE OF INTENT (NOI) ENSURING COMPLIANCE WITH THAT STATE PERMIT AND WRITTEN CONFIRMATION FROM A QUALIFIED PARTY WHO WILL BE RESPONSIBLE FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) COMPLIANCE INSPECTIONS, MONITORING, RECORD KEEPING, ETC., FOR THE DEVELOPMENT.

**CHEROKEE COUNTY TRAFFIC NOTES:**

- BASED ON THE SURVEY, THE SITE IMPROVEMENTS CONSTRUCTED AS PROPOSED WILL PROVIDE THE INTERSECTION SIGHT DISTANCE AS SHOWN. FIELD VERIFICATION WILL BE PROVIDED TO THE COUNTY PRIOR TO FINAL SITE ACCEPTANCE.
- ALL CUTS IN PAVEMENT AND PAVEMENT EDGES ADJOINING NEW PAVEMENT SHALL BE SAW CUT. ALL RIGID PAVEMENT TO RIGID PAVEMENT SHALL BE DOWELED WITH NO. 4 BARS SPACED 12-INCHES ON CENTER AND GROUDED.
- ALL PAVEMENTS STRIPING AND MARKINGS SHALL BE THERMOPLASTIC PER GEORGIA D.O.T. SPECIFICATIONS.
- LIABILITY AND RESPONSIBILITY OF APPLICANT: THE APPLICANT IS RESPONSIBLE FOR THE RELOCATION, ADJUSTMENT OR REMOVAL OF ALL UTILITY CONFLICTS WITHIN THE DEVELOPMENT AREA AT NO COST TO CHEROKEE COUNTY, THE COUNTY ENCOURAGES THE APPLICANT TO CONTACT THE UTILITIES PROTECTION CENTER (UPC) FOR "DESIGN LOCATE REQUESTS" WHICH AIDS IN THE LOCATION OF EXISTING UTILITY FACILITIES FOR PRE-DESIGN, ADVANCE PLANNING PURPOSES, ETC. EXCAVATORS SHALL CONTACT THE UPC IN ACCORDANCE WITH THE OFFICIAL CODE OF GEORGIA ANNOTATED 25.9, BEFORE COMMENCING EXCAVATION ACTIVITIES.
- OWNERSHIP OF COMPLETED WORK: MEDIAN CROSSOVERS, RIGHT-TURN/DECEL LANES, LEFT TURN LANES, ETC. CONSTRUCTED WITHIN COUNTY RIGHT OF WAY BECOMES FEATURES OF THE HIGHWAY AND THE UNCONDITIONAL PROPERTY OF THE COUNTY. THE APPLICANT OR PROPERTY OWNER(S) AND/OR LESSEES ADJACENT TO THE RIGHT OF WAY AT THE CROSSOVER SITE RETAIN NO OWNERSHIP OR LEGAL INTEREST THEREIN. THE COUNTY RESERVES THE RIGHT AND ALL AUTHORITY TO CLOSE, RELOCATE OR REMOVE A CROSSOVER WHEN SUCH ACTION IS DEEMED NECESSARY IN THE INTEREST OF PUBLIC SAFETY OR EFFICIENCY OF THE ROADWAY.WHEN DETERMINED NECESSARY BY THE COUNTY, ADDITIONAL RIGHT OF WAY FOR THE CONSTRUCTION AND PLACEMENT OF AUXILIARY LANES SHALL BE RELINQUISHED TO THE COUNTY (MINIMUM 13-FEET FROM BACK OF CURB).

**CHEROKEE COUNTY FIRE DEPARTMENT NOTES:**

- THE FOLLOWING PLANS HAVE BEEN REVIEWED BY THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. THE DRAWINGS WERE REVIEWED UNDER THE APPLICABLE LAWS ADOPTED AT THE TIME. EVERY EFFORT WAS MADE TO ENSURE CODE COMPLIANCE. ANY CODE VIOLATIONS THAT WERE MISSED DURING THE PLAN REVIEW ARE THE OWNER'S RESPONSIBILITY AND MUST BE CORRECTED TO RECEIVE FINAL APPROVAL AND/OR A CERTIFICATE OF OCCUPANCY (CO).
- ALL SITE WORK MUST HAVE A MINIMUM OF A PRECONSTRUCTION MEETING WITH THE CHEROKEE COUNTY FIRE MARSHAL'S OFFICE. AT THE PRE-CONSTRUCTION MEETING, IT WILL THEN BE DETERMINED WHAT OTHER INSPECTIONS WILL BE REQUIRED.
- ALL FIRE INSPECTIONS ARE SCHEDULED THROUGH THE CITYVIEW PORTAL UNDER THE SAME PERMIT NUMBER AS THE LAND DISTURBANCE PERMIT. THIS MUST BE DONE BY THE CONTRACTOR.

**CONSTRUCTION LEGEND:**

**[AT] STRUCTURE TOP ADJUSTMENT:**  
RAISE, LOWER, MOVE, ALTER, ADD OR ADJUST EXISTING MANHOLE OR OTHER STRUCTURE TOP, BOX, RING AND COVER AS REQUIRED FOR PROPOSED CONSTRUCTION. REFERENCED STANDARDS, DETAILS, AND SPECIFICATIONS APPLY AS MINIMUM REQUIREMENTS. STRUCTURE TOPS SHALL BE EVEN WITH FINISHED PAVEMENT IN PAVED AREAS AND RATED FOR TRAFFIC IN TRAFFIC AREAS. STRUCTURE TOPS SHALL BE 6 INCHES ABOVE FINISHED GRADE IN UNPAVED AREAS.

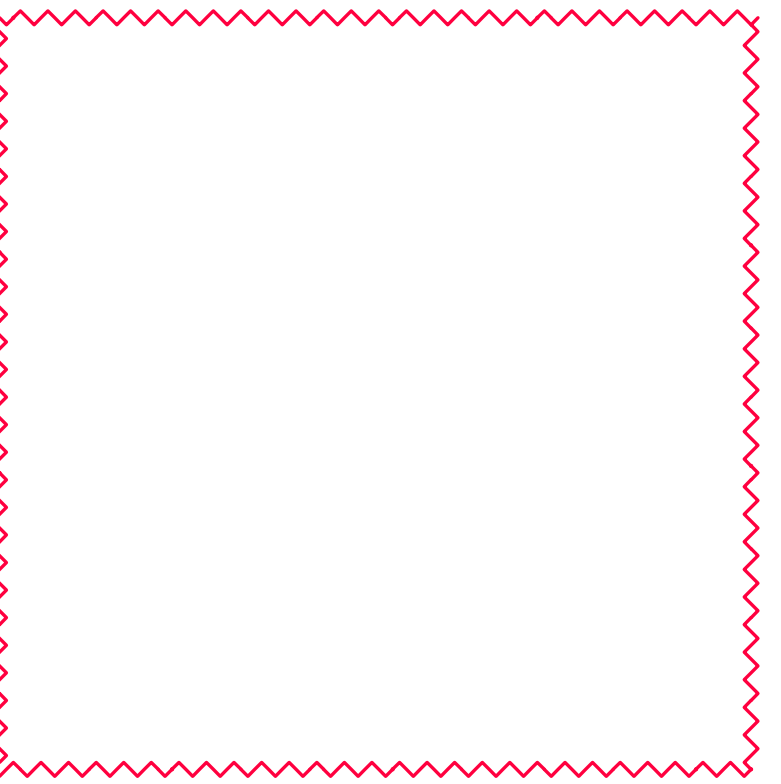
**[CA] CONTROLLED ACCESS:**  
PROVIDE CONTROLLED ACCESS TO PROJECT SITE USING LOCKING GATES, TRAFFIC CONTROL (TC), AND PERSONNEL TO MONITOR ACCESS AND PROHIBIT UNAUTHORIZED ENTRY TO THE SITE. PROVIDE ALL WARNING, INSTRUCTIONAL, AND DIRECTIONAL SIGNAGE TO INFORM PUBLIC AND MAINTAIN SAFE CONTROLLED ACCESS AT ALL TIMES. ALL GATES SHALL BE LOCKED AT ALL TIMES EXCEPT FOR AUTHORIZED ENTRY. PROVIDE TEMPORARY FENCING TO PROHIBIT AND CONTROL ACCESS. COORDINATE WITH OWNER AND MAINTAIN SAFE ACCESS FOR NORMAL OPERATION AND FUNCTION. ACCESS POINTS ADJACENT TO OCCUPIED SPACES OR FINISH AREAS SHALL BE SECURE, WATER-TIGHT, AND PROTECTED FROM DUST, NOISE, WIND, AND WEATHER. CONTROLLED ACCESS POINTS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL RELEASE BY OWNER.

**[CS] CRITICAL SLOPE:**  
SLOPE SHOWN IS LESS THAN 1 FOOT PER 100 FEET (1.0%). CONTRACTOR SHALL USE LASER GUIDED EQUIPMENT AND PROVIDE ALL NECESSARY MEASURES TO ENSURE FINAL GRADE IS ESTABLISHED AS DESIGNED. CONSTRUCTION TOLERANCE IS NOT ALLOWED FOR CRITICAL SLOPES OR GRADES. NO PONDING OR DEPRESSED AREAS ALLOWED.

**[CT] CURB TAPER:**  
CONTRACTOR SHALL: TAPER CURB HEIGHT FROM STANDARD HEIGHT TO 0" HEIGHT FOR LENGTH SHOWN ON PLANS. END OF TAPER SHALL BLEND SMOOTH INTO PROPOSED FINISH GRADES SO THAT 0" (ZERO INCHES) CURB HEIGHT WILL MATCH ADJACENT PAVEMENT, IMPROVEMENTS, AND/OR FINISH GRADES. PROVIDE EXPANSION JOINT AT INTERFACE. ALL SIDEWALKS ADJACENT TO CURB TAPERS (CT) SHALL BE TAPERED TO MATCH CURB TAPER(S).

**[DF] DROP FOOTING:**  
DROP THE BUILDING OR IMPROVEMENT FOOTING BEARING SURFACE AS REQUIRED FOR PROPOSED GRADES ALONG BUILDING OR IMPROVEMENT PERIMETER TO ACCEPT FINISH PER ARCHITECTURAL PLANS WITHOUT EXPOSING FOOTING. FOOTING BEARING SURFACE MINIMUM 12" BELOW FINISH SURFACE. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS AND SPECIFICATIONS. COORDINATE PTC.

**[FJ] FLUSH JOINT:**  
CONTRACTOR SHALL: PROVIDE FLUSH JOINT ALONG DESIGNATED LENGTH. ELEVATIONS SHALL MATCH EQUALLY ALONG ENTIRE LENGTH FROM ONE SURFACE TO ADJACENT SURFACES. PROVIDE EXPANSION JOINT ALONG ENTIRE LENGTH OF PAVEMENT OR CURB EDGES. CROSS SLOPE SHALL BE LEVEL ACROSS GUTTER WIDTH. FLUSH JOINT SHALL BE INSTALLED TO PROVIDE SMOOTH, LEVEL CROSS SLOPE, AND EVEN TRANSITION FROM ONE SURFACE TO ANOTHER ALONG ENTIRE LENGTH. BUMPS, DIPS, RAISED OR LOWERED EDGES, OR OTHER ELEVATION DIFFERENCES WILL NOT BE ALLOWED.



**CONSTRUCTION LEGEND:**

**[ME] MATCH EXISTING:**  
MATCH EXISTING FINISH GRADE. VERIFY IN FIELD PRIOR TO CONSTRUCTION (PTC). VERIFY POSITIVE SLOPE TO PROVIDE FLOW AS INDICATED.

**[RA] CURB RAMP:**  
PROVIDE CURB RAMP CONFORMING TO CURRENT GEORGIA ADA CODE. VERIFY ALL REQUIREMENTS, DIMENSIONS, SLOPES, AND CONSTRUCTION PTC. PROVIDE MINIMUM 6" CURB TAPER [CT] AT EACH SIDE OF ADJOINING CURBS. TAPER ADJOINING SIDEWALKS TO MATCH CURB.

**[RD] ROOF DRAIN:**  
CONNECT ALL ROOF DOWNSPOUTS AS SHOWN ON ARCHITECTURAL PLANS TO STORM SEWER WITH [RD] PIPING. NUMBER AND LOCATION OF DOWNSPOUTS SHALL CONFORM TO TO ARCHITECTURAL PLANS. VERIFY PTC. CONNECTIONS TO INDIVIDUAL DOWNSPOUTS OR PLUMBING DRAINS SHOWN ON CIVIL SITE DEVELOPMENT PLANS ARE FOR REFERENCE ONLY TO INDICATE TYPICAL CONDITIONS. CONNECT ALL HUB DRAINS FROM WALL HUNG HVAC UNITS AND ALL PLUMBING ROOF DRAINS WITH [RD] PIPING TO STORM SEWER - REFER TO MECHANICAL AND PLUMBING ENGINEERING PLANS AND SPECIFICATIONS. [RD] COLLECTOR PIPE SIZE AND MATERIAL SHOWN ON PLANS. [RD] CONNECTIONS TO INDIVIDUAL DOWNSPOUTS SHALL BE 6" DIAMETER, 2" DIAMETER FOR HVAC UNITS. PIPE BEDDING FOR [RD] IS CLASS B. MINIMUM COVER OVER TOP OF PIPE: 1.0 FEET UNPAVED AREAS, 3.0 FEET PAVED AREAS. MINIMUM PIPE SLOPE: 1/8"/FT (1.0%). USE DUCTILE IRON PIPE IN PAVED AREAS, SCHED. 40 PVC IN NON-PAVED AREAS. PROVIDE CLEANOUTS AT ALL LINE DEFLECTIONS. CLEANOUTS IN NON-PAVED AREAS SHALL BE PVC 6 INCHES ABOVE GRADE. CLEANOUTS IN PAVED AREAS SHALL BE H-20 RATED HEAVY DUTY TO MATCH FINISHED PAVEMENT ELEVATION. LONG SWEEP RADIUS REQUIRED FOR ALL ELBOWS AND PIPE LINE DEFLECTIONS. PIPE CONNECTION TO DOWNSPOUTS SHALL BE PER ARCHITECTURAL AND PLUMBING DETAILS.

**[SDV] VERIFY SIGHT DISTANCE:**  
CONTRACTOR SHALL VERIFY SITE DISTANCE FROM MAIN DRIVE LOOKING RIGHT AS SHOWN ON SHEET C5.3 PRIOR TO CONSTRUCTION. AT SPOT ELEVATION 1089.10 SHOWN ON SHEET C5.3, PROVIDE REGISTERED SURVEYOR TO SET INSTRUMENT LEVEL AT 1092.10 (1089.10 + 3.50' - DRIVER'S EYE HEIGHT), AT END OF SIGHT DISTANCE LINE AS SHOWN ON SHEET C5.3 IN THE CENTER OF THE NORTHBOUND LANE AT 285' FROM MAIN DRIVE POINT SET AN OBJECT 3.50' IN HEIGHT FROM THE EXISTING PAVEMENT ELEVATION AND VERIFY THE SIGHT LINE BETWEEN THE TWO POINTS. REPORT FINDINGS TO ENGINEER AND ARCHITECT IMMEDIATELY.

**[SW] SIDEWALK, RAMP OR STEPS:**  
CONCRETE SIDEWALK WITH FINISH PER ARCHITECT. SIDEWALK WIDTHS AND DIMENSIONS AT DOORS OR ENTRANCE/EXITS SHALL BE PER ARCHITECTURAL PLANS. MINIMUM WIDTH IS DOOR WIDTH PLUS 1.0 FEET EACH SIDE. PROVIDE POSITIVE SLOPE AWAY FROM DOOR THRESHOLDS OF 1/8 INCH PER FOOT (1.0%) MINIMUM. SIDEWALK SLOPES GREATER THAN 1:20 (0.05 FT./FT.) WILL BE CONSIDERED RAMPS. MAXIMUM SLOPE FOR SIDEWALKS IS 1:12 (0.083 FT./FT.). MAXIMUM SIDEWALK CROSS SLOPE IS 1/4 INCH PER FOOT. SIDEWALKS SHALL BE INSTALLED WITH MINIMUM 6X6 10 GAUGE WWF REINFORCEMENT, 1.5 INCHES FROM BOTTOM. HANDRAILING SHALL BE INSTALLED ON BOTH SIDES OF SIDEWALK RAMPS PER ADA CODE. CONTRACTOR SHALL INSTALL STEPS AND RAILING PER LOCAL CODE(S) AND CONSTRUCTION DETAILS. CONSULT WITH ARCHITECT REGARDING SIDEWALK AND RAILING DETAILS PRIOR TO CONSTRUCTION. MINIMUM RAILING DETAIL REQUIREMENT(S) SHALL COMPLY WITH GEORGIA D.O.T. 9031R OR AS SHOWN ON PLANS AND SPECIFICATIONS. CANOPIES SHALL BE INSTALLED PER ARCHITECTURAL PLANS AND SPECIFICATIONS. COORDINATE AND VERIFY ALL SIDEWALK LAYOUT, WIDTH, LOCATION AND FINISH WITH ARCHITECT PRIOR TO CONSTRUCTION.

**[TC] TRAFFIC CONTROL:**  
CONTRACTOR SHALL: PROVIDE 24 HOUR TRAFFIC CONTROL FOR ALL PUBLIC RIGHT-OF-WAY, ROADWAYS, PRIVATE DRIVES, [CA] CONTROLLED ACCESS AREAS, AND ALL AREAS REQUIRING ACCESS. PROVIDE TRAFFIC PLATES OR OTHER APPROVED METHODS FOR ALL AREAS REQUIRING TEMPORARY ACCESS WHICH MAY BE OBSTRUCTED DUE TO REQUIRED UTILITY TRENCH CUTS OR OTHER OBSTRUCTIONS. TRAFFIC CONTROL SHALL CONFORM TO GEORGIA D.O.T STANDARDS AND SPECIFICATIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), AND LOCAL AUTHORITY STANDARDS AND SPECIFICATIONS. TRAFFIC CONTROL SHALL INCLUDE, BUT NOT BE LIMITED TO: WARNING SIGNS AND DEVICES, LIGHTED DEVICES/SIGNALS FOR NIGHT CONDITIONS, BARRICADES, QUALIFIED FLAGMEN, AND ALL OTHER MEASURES TO INSURE THE SAFETY OF PEDESTRIAN AND VEHICULAR TRAFFIC AND WORKMEN, AND TO PROTECT THE WORK. MAINTAIN ALL TRAFFIC CONTROL MEASURES IN GOOD REPAIR, CLEAN AND VISIBLE FOR DAY AND NIGHT OPERATION. ALL LANE CLOSURES SHALL BE COORDINATED WITH AND APPROVED BY THE LOCAL AUTHORITY PRIOR TO CONSTRUCTION.

**[TF] TEMPORARY FENCE:**  
INSTALL TEMPORARY FENCE PER PROJECT SPECIFICATIONS. TEMPORARY FENCE (TF) SHOWN ON PLANS IS IN ADDITION TO TEMPORARY FENCE REQUIRED BY THE SPECIFICATIONS. MINIMUM HEIGHT IS SIX FEET (6'). TEMPORARY FENCE MUST BE INSTALLED VERTICAL (PLUMB), RIGID AND STABLE, AND WITHOUT GAPS TO PROHIBIT UNAUTHORIZED ENTRY OR REMOVAL. IN PAVED AREAS TO REMAIN [TR] WHERE [TF] IS REQUIRED PORTABLE FENCING MAY BE USED. PORTABLE FENCING MUST BE HEAVY DUTY GRADE COMPLYING WITH PROJECT SPECIFICATIONS AT A MINIMUM. SECTIONS SHALL BE CONNECTED AND ATTACHED SECURELY. VERTICAL (PLUMB), STABLE AND RIGID TO PROHIBIT UNAUTHORIZED ENTRY OR REMOVAL. PROVIDE WEIGHTED BOTTOM RAIL OR OTHER MEANS TO PREVENT HORIZONTAL DISPLACEMENT OR MOVEMENT. WHERE DRIVEN POSTS ARE USED IN AREAS TO REMAIN [TR], PAVEMENTS MUST BE CUT AND PATCHED FOR FULL DEPTH AND ALL IMPROVEMENTS MUST BE RESTORED TO MATCH INDUSTRY STANDARD OR EXISTING CONDITION, WHICHEVER IS GREATER. TEMPORARY FENCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL FINAL RELEASE BY OWNER/ARCHITECT. INSPECT, REPAIR AND MAINTAIN TEMPORARY AND PORTABLE FENCING DAILY TO PROHIBIT UNAUTHORIZED ENTRY. SUBMIT ALL MANUFACTURER DETAILS AND SPECIFICATIONS FOR [TF] TEMPORARY FENCE AND PORTABLE FENCE APPROVAL PRIOR TO CONSTRUCTION (PTC).

**[UD] UNDISTURBED BUFFER:**  
INSTALL AND MAINTAIN TREE FENCE AROUND ENTIRE PERIMETER OF UNDISTURBED AREA. NO ACCESS ALLOWED IN UNDISTURBED AREAS INCLUDING BUT NOT LIMITED TO: PEDESTRIAN, VEHICULAR, STORAGE, PARKING, OR ANY OTHER ENCROACHMENT OR DISTURBANCE. PROVIDE SIGNAGE AND INSTRUCTION TO ALL PERSONNEL AS REQUIRED.

**[VC] VERIFY & COORDINATE:**  
VERIFY ALL EXISTING IMPROVEMENTS. PROTECT BY ALL MEANS NECESSARY ALL EXISTING IMPROVEMENTS TO REMAIN. COORDINATE RELOCATION, REMOVAL, STORAGE, OR DEMOLITION WITH OWNER OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.

**GRADING NOTES:**

- SEE GENERAL CONSTRUCTION NOTES FOR FURTHER INFORMATION RELATING TO SITE DEVELOPMENT AND GRADING IMPROVEMENTS.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LOCAL AUTHORITIES HAVING JURISDICTION (LAHJ). ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE. SEE EROSION CONTROL PLAN FOR DETAILS.
- THIS SITE IS WITHIN A 100 YEAR FLOOD HAZARD PER FEMA F.I.R.M. MAP (RISK MAP DATED 06-07-2019)
- ALL UTILITIES SHOWN ON THE PLANS ARE SHOWN ACCORDING TO THE INFORMATION AVAILABLE, AND MAY NOT BE ACCURATE HORIZONTALLY OR VERTICALLY. GAS LINES SHALL BE LOCATED AND VERIFIED WITH GAS AUTHORITY PRIOR TO CONSTRUCTION. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, ORIGIN, VERIFICATION, PROTECTION, AND MAINTENANCE OF ALL UTILITIES AND UTILITY EASEMENTS WHICH EXIST ONSITE. CONTRACTOR SHALL HAVE ALL UTILITIES FIELD LOCATED BY THE APPROPRIATE AUTHORITY AND COORDINATE ALL EXISTING OR PROPOSED UTILITY CONSTRUCTION, RELOCATION, TAPS OR OTHER ASSOCIATED WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ALL CONFLICTS OR PROBLEMS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES FOR PROPOSED CONSTRUCTION WITH OWNER AND UTILITY AUTHORITY, INCLUDING BUT NOT LIMITED TO: GAS LINES, POWER LINES, CABLE TV OR TELEPHONE, IT LINES, IRRIGATION LINES, AND OTHER ASSOCIATED UTILITIES WHETHER SHOWN ON THE PLANS OR NOT. RESOLVE ALL CONFLICTS OR PROBLEMS PRIOR TO CONSTRUCTION.
- ALL CUT AND FILL GRADING OPERATIONS SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS AND REQUIREMENTS OF THE GEOTECHNICAL/SOILS ENGINEER. SUBSURFACE SOIL CONDITIONS WHICH MAY BE ENCOUNTERED, SUCH AS UNDERGROUND SPRINGS, HIGH WATER TABLE, ROCK OR UNSUITABLE SOILS, SHALL BE RESOLVED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SOILS ENGINEER. IN THE ABSENCE OF A QUALIFIED SOILS ENGINEER, THE CONTRACTOR IS RESPONSIBLE FOR ALL SOILS AND CONSTRUCTION SELECTED FOR ANY USE IN COMPLETING THE WORK.
- PWH ENGINEERING, INC., IS NOT RESPONSIBLE FOR SUITABILITY, STRUCTURAL INTEGRITY, COMPACTION, CUT OR FILL QUANTITY OF ANY SOILS SELECTED OR REQUIRED FOR USE IN THE COMPLETION OF THE WORK.
- MINIMUM COMPACTION FOR ALL FILL IS 95% MAXIMUM DRY DENSITY PER ASTM D698, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER, OR AS SPECIFIED IN THE GEOTECHNICAL SOILS SUBSURFACE EVALUATION ANALYSIS AND REPORT, WHICHEVER IS GREATER.
- MAXIMUM CUT OR FILL SLOPE IS 2H:1V UNLESS SPECIFIED OTHERWISE.
- MINIMUM FLOOR ELEVATIONS SHOWN ARE BASED UPON EXISTING CONDITIONS, PROPER FUNCTIONING OF CHANNELS, DRAINAGE COURSES, AND STORM DRAIN SYSTEMS, ANY RESTRICTIONS OR ALTERATIONS TO THESE ELEMENTS MAY CAUSE FLOODING ABOVE THE STATED MINIMUM FLOOR ELEVATIONS.
- CONTRACTOR SHALL PROVIDE POSITIVE SLOPE AWAY FROM ALL BUILDINGS, FINISHED FLOORS, AND STRUCTURES WHICH MAY BE DAMAGED BY WATER INTRUSION FOR A MINIMUM OF 5.0 FEET HORIZONTALLY.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL LOCAL, STATE, FEDERAL, AND INDUSTRY STANDARD SAFETY DEVICES, PROCEDURES, PRECAUTIONS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. NO PERSON SHALL ENTER ANY MANHOLE OR OTHER UNDERGROUND STRUCTURE OR EXCAVATION, WITHOUT PROTECTIVE BREATHING APPARATUS, AND AT LEAST ONE OTHER PERSON PRESENT FOR SAFETY. ALL TRENCHES, GRADING, EXCAVATION, AND EARTHWORK SHALL CONFORM TO OSHA STANDARDS FOR SAFETY, SHORING, AND BRACING.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTY OR EXISTING UTILITIES OR IMPROVEMENTS DUE TO CONSTRUCTION REQUIRED TO COMPLETE THE WORK. ALL DAMAGED PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR.
- LINE OF SIGHT DISTANCE AT INTERSECTIONS SHALL BE MAINTAINED PERMANENTLY FREE AND CLEAR OF ALL OBSTRUCTION.
- FINISHED GRADES LESS THAN 1.0% (1 FT. PER 100 FT.) MAY BE REQUIRED DUE TO SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS NECESSARY TO PROVIDE GRADES WITHOUT PONDING OR DEPRESSED AREAS.
- FLOW ARROWS AND SPOT ELEVATIONS SHOWN DETERMINE DESIGN INTENT. WHERE CONFLICTS OCCUR BETWEEN FLOW ARROWS AND SPOT ELEVATIONS NOTIFY ENGINEER IMMEDIATELY AND RESOLVE PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL ESTABLISH PERMANENT GRASSING ON ALL DISTURBED AREAS PRIOR TO FINAL RELEASE, WHETHER SHOWN ON THE PLANS OR NOT.
- OWNER IS RESPONSIBLE FOR COMPLIANCE WITH CLEAN WATER ACT, USACE WETLANDS AND SECTION 404 PERMITTING.
- THE CONTRACTOR SHALL PROVIDE STORM WATER DISCHARGE MONITORING, DOCUMENTATION, AND REPORTING, AND FULLY COMPLY WITH THE CURRENT GEORGIA NPDES PERMIT CONDITIONS AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IMMEDIATELY AND THROUGHOUT CONSTRUCTION. **CONTRACTOR SHALL SIGN, CERTIFY, AND SUBMIT THE NOTICE OF INTENT (NOI) USING REGISTERED MAIL, AND ANY OTHER RELATED NOTICE(S), APPLICATIONS, OR CERTIFICATIONS REQUIRED FOR FULL COMPLIANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IN A TIMELY MANNER THROUGHOUT CONSTRUCTION.**
- ALL SOILS USED FOR FILL IN EARTHEN DAMS OR WATER IMPOUNDMENT AREAS SHALL BE ML OR CL LOW PLASTICITY CLAYS PER THE UNIFIED SOIL CLASSIFICATION, APPROVED BY THE GEOTECHNICAL ENGINEER. ALL ORGANICS, TOPSOIL, OR OTHER UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE ENTIRE FILL AREA. ALL FILL SHALL BE PLACED IN MAXIMUM 6 INCH LIFTS, MINIMUM COMPACTION IS 95% OF STANDARD MAXIMUM DENSITY. NO GRAVEL, AGGREGATE OR GRAVEL PIPE BEDDING, OR ANY PERVIOUS MATERIAL SHALL BE PLACED IN THE DAM OR FILL AREA(S). SCARIFY EXISTING SUBGRADE PRIOR TO PLACING FILL.
- ALL STORM SEWER STRUCTURES, PIPING, AND APPURTENANCES SHALL BE COMPLETELY CLEANED AND FREE OF ALL TRASH, DEBRIS, SEDIMENT, SILT, OR OTHER UNSUITABLE MATERIALS PRIOR TO FINAL RELEASE.
- CONTRACTOR SHALL PROVIDE ONSITE UTILITY LOCATIONS FOR ALL UTILITIES BY PRIVATE UTILITY LOCATING COMPANY. PROVIDE OWNER/ENGINEER COMPLETE RESULTS OF ALL UTILITY LOCATION(S) PRIOR TO CONSTRUCTION. THIS REQUIREMENT IS IN ADDITION TO THE STANDARD UPC LOCATION OF UTILITIES.
- EXISTING STORM SEWER CAPACITY AND SERVICE LEVEL WILL NOT BE INCREASED OR ENHANCED BY PROPOSED DESIGN.
- CONSTRUCTION SEQUENCE AND PHASING ARE SOLE RESPONSIBILITY OF THE CONTRACTOR. WET SOILS WILL NOT BE CONSIDERED UNSUITABLE AND WET SOIL REMEDIATION WILL NOT BE ANY ADDITIONAL COST TO OWNER.

**GENERAL CONSTRUCTION NOTES:**

- LAHJ = LOCAL AUTHORITIES HAVING JURISDICTION.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM, AT A MINIMUM, TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE LAHJ. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL CURRENT APPLICABLE STANDARDS, SPECIFICATIONS, AND DETAILS OF THE LAHJ. ALL DISCREPANCIES BETWEEN THESE STANDARDS AND THE CONSTRUCTION PLANS AND SPECIFICATIONS SHALL BE REPORTED IMMEDIATELY FOR RESOLUTION PRIOR TO CONSTRUCTION.
- WHEN ANY CONSTRUCTION, MATERIALS, OR SPECIFICATIONS FOR THE SAME OR SIMILAR ITEMS OR REQUIREMENTS ARE SHOWN IN MORE THAN ONE PLACE IN THE CONSTRUCTION DOCUMENTS, PLANS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL FEDERAL, STATE, OSHA, AND LOCAL SAFETY REGULATIONS, LAWS, CODES OR ORDINANCES WHICH MAY APPLY.
- THE CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS FOR ERRORS, OMISSIONS, DISCREPANCIES, OR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY ERRORS OR OMISSIONS IN THE PLANS, OR BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS, IMMEDIATELY. ANY WORK DONE AFTER SUCH DISCOVERY, WITHOUT APPROVAL, IS AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO AND FROM THE SITE AT ALL TIMES. UTILITY SERVICES SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE ANY TEMPORARY INTERRUPTION OF ACCESS OR UTILITIES WITH THE OWNER PRIOR TO THE INTERRUPTION.
- ALL MATERIALS TO BE REMOVED SHALL BE DISPOSED OF OFFSITE IN A LEGAL MANNER.
- ALL UTILITIES SHOWN ON THE PLAN ARE SHOWN ACCORDING TO INFORMATION AVAILABLE, AND MAY NOT BE ACCURATE HORIZONTALLY OR VERTICALLY. UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, ORIGIN, VERIFICATION, PROTECTION AND MAINTENANCE OF ALL UTILITIES WHICH EXIST ONSITE OR MAY BE IMPACTED BY THE WORK. CONTRACTOR SHALL HAVE ALL UTILITIES LOCATED AND MARKED BY THE APPROPRIATE AUTHORITIES AND COORDINATE ALL UTILITY CONSTRUCTION, TAPS, OR OTHER ASSOCIATED WORK WITH THE APPROPRIATE UTILITY AUTHORITY. RESOLVE ANY CONFLICTS OR ERRORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CLEARLY MARK AND MAINTAIN PROPERTY CORNERS, BOUNDARY, MONUMENT, AND BENCHMARKS THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL REVIEW ALL SITE IMPROVEMENTS, WALKS, PARKING, PAVEMENT, BUILDINGS, STRUCTURES, OR OTHER IMPROVEMENTS SHOWN ON THESE PLANS FOR CONFORMITY WITH THE CURRENT APPROVED ARCHITECTURAL AND RELATED ENGINEERING PLANS. RESOLVE ALL CONFLICTS OR DISCREPANCIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNS, LIGHTS, OR OTHER DEVICES FOR THE SAFETY AND PROTECTION OF ALL PERSONS ON THE SITE. FOR TRAFFIC SAFETY, IN THE ABSENCE OF SPECIFIC TRAFFIC REQUIREMENTS OF THE LAHJ, THE MANUAL FOR UNIFORM TRAFFIC SAFETY CONTROL DEVICES SHALL BE USED.
- PROPOSED BUILDING AND STRUCTURE LOCATIONS ARE SHOWN BASED ON ARCHITECTURAL PLANS PROVIDED. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL BUILDING DIMENSIONS, EXISTING AND PROPOSED, JUNCTIONS, COMMON POINTS, AND LAYOUT GEOMETRY AS REQUIRED FOR COMPLETION OF THE WORK.
- MINIMUM PIPE BEDDING FOR ALL PIPING SHALL CONFORM TO GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE. UNSUITABLE, WET, SPONGY, OR SOFT SOILS WILL REQUIRE ADDITIONAL BEDDING DESIGN AND CONSTRUCTION, AND SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE AFFECTED WORK.
- BOUNDARY, TOPOGRAPHIC, VERTICAL AND HORIZONTAL SURVEY DATA PROVIDED BY OTHERS. PWH ENGINEERING, INC. IS NOT RESPONSIBLE FOR ERRORS, OMISSIONS, OR OTHER DEFECTS ARISING FROM OR RELATED TO ANY INFORMATION OR DATA PROVIDED BY OTHERS.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH THE LAHJ FOR START OF CONSTRUCTION AND INSPECTION PROCEDURES.
- ALL CONSTRUCTION DETAILS SHOWN ON THE PLANS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL REVIEW AND VERIFY ALL CONSTRUCTION DETAILS FOR COMPLIANCE WITH CURRENT REFERENCED STANDARDS AND THE LAHJ.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL LOCAL, STATE, FEDERAL, AND INDUSTRY STANDARD SAFETY DEVICES, PROCEDURES, PRECAUTIONS, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK. NO PERSON SHALL ENTER ANY MANHOLE OR OTHER UNDERGROUND STRUCTURE OR EXCAVATION, WITHOUT PROTECTIVE BREATHING APPARATUS, AND AT LEAST ONE OTHER PERSON PRESENT FOR SAFETY. ALL TRENCHES, GRADING, EXCAVATION, AND EARTHWORK SHALL CONFORM TO OSHA STANDARDS FOR SAFETY, SHORING, AND BRACING.
- MINIMUM FINISHED FLOOR ELEVATIONS WHICH MAY BE SHOWN ARE BASED UPON EXISTING CONDITIONS AND PROPER FUNCTION OF CHANNELS, DRAINAGE COURSES, AND STORM DRAIN SYSTEMS. ANY RESTRICTION, DAMAGE, OR ALTERATION TO THESE ELEMENTS, EXISTING OR PROPOSED, MAY CAUSE FLOODING ABOVE THE STATED MINIMUM FLOOR ELEVATIONS.
- CONTRACTOR SHALL ESTABLISH PERMANENT GRASSING ON ALL DISTURBED AREAS PRIOR TO FINAL RELEASE, WHETHER SHOWN ON THE PLANS OR NOT.
- THE CONTRACTOR SHALL PROVIDE STORM WATER DISCHARGE MONITORING, DOCUMENTATION, AND REPORTING, AND FULLY COMPLY WITH THE CURRENT GEORGIA NPDES PERMIT CONDITIONS AND REQUIREMENTS. **CONTRACTOR SHALL SIGN, CERTIFY, AND SUBMIT THE NOTICE OF INTENT (NOI) USING REGISTERED MAIL, AND ANY OTHER RELATED NOTICE(S), APPLICATIONS, OR CERTIFICATIONS REQUIRED FOR FULL COMPLIANCE WITH CURRENT APPLICABLE LAWS AND REGULATIONS. CONTRACTOR SHALL PROVIDE COPIES OF ALL REPORTING AND DOCUMENTATION TO OWNER IN A TIMELY MANNER THROUGHOUT CONSTRUCTION.**
- NO PARKING FOR CONTRACTORS OR SUBCONTRACTORS WILL BE ALLOWED ON PUBLIC STREETS OR RIGHT OF WAY.
- ALL CUTS IN PAVEMENT AND PAVEMENT EDGES ADJOINING NEW PAVEMENT SHALL BE SAW CUT. ALL RIGID PAVEMENT TO RIGID PAVEMENT SHALL BE DOWELED WITH NO. 4 BARS SPACED 12-INCHES ON CENTER AND GROUDED.
- CONTRACTOR SHALL COORDINATE WITH AUTHORIZED REPRESENTATIVE FOR OWNER AND CONFIRM AND OBTAIN APPROVAL PTC FOR ALL DAILY CONSTRUCTION ACTIVITIES SCHEDULED AND ANY IMPACT ON REQUIRED ACTIVITIES, EVENTS, OR ACCESS WHICH MAY BE AFFECTED IN ANY WAY. DO NOT ALLOW PEDESTRIANS, PUBLIC, OR OTHER UNAUTHORIZED PERSON(S) TO ENTER WORK AREAS, WORK AND STORAGE AREA(S) SHALL BE FENCED [TF] AND SECURE [CA] AT ALL TIMES FOR ALL PHASES OF CONSTRUCTION. FOUL OR OFFENSIVE LANGUAGE, IMPROPER OR REVEALING CLOTHING OR ATTIRE, ALCOHOL, FIREARMS, DRUGS, OR OTHER INAPPROPRIATE BEHAVIOR AS DETERMINED BY OWNER IS STRICTLY PROHIBITED. ANY INTERACTION OR CONTACT WITH PUBLIC, STAFF OR VISITORS IS STRICTLY PROHIBITED AT ALL TIMES. ALL COORDINATION AND COMMUNICATION SHALL BE THROUGH THE DESIGNATED OWNER AUTHORIZED REPRESENTATIVE. CONTRACTOR SHALL REVIEW AND COMPLY WITH ALL OWNER'S REQUIREMENTS, STANDARDS, POLICIES, RULES AND SPECIFICATIONS.**
- NO PARKING IN THE RIGHT OF WAY IS ALLOWED. ALL CONSTRUCTION TRAFFIC MUST BE COORDINATED WITH [TC] AT ALL TIMES WITH NO INTERRUPTION OF ACCESS FOR SCHOOL OR SCHOOL OPERATIONS.
- DESIGN IS BASED ON SURVEY INFORMATION PROVIDED BY OTHERS. ENGINEER IS NOT RESPONSIBLE FOR ERRORS OR OMISSIONS IN ANY INFORMATION PROVIDED BY OTHERS.

PROJECT NUMBER  
**23-017**

DATE  
**09/25/23**

REVISIONS

NO.	DATE
ADD 2	03/20/24
ADD 4	04/12/24

FACILITY CODE

**KRH** ARCHITECTS  
INCORPORATED

855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

**PWH** ENGINEERING  
CIVIL ENGINEERING  
SITE DEVELOPMENT

2900 DELA ROAD STE 700 #218 • MARIETTA, GA 30067 • PH: 770-433-6190

2017 EAST CHEROKEE DRIVE WOODSTOCK, GA 30188

ISSUE DATE: 03-22-24  
JOB No. 22280 | SCALE: 1" = 30'

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
CHEROKEE COUNTY BOARD OF COMMISSIONERS

REGISTERED PROFESSIONAL ENGINEER  
No. 22553  
PRESTON W. HOBBS

GSWCC LEVEL II - 0000008688

SHEET INDEX

PROJECT NOTES

SHEET INDEX

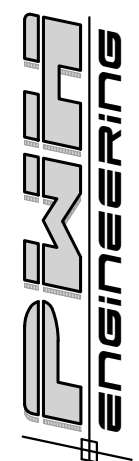
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FACILITY CODE  
  
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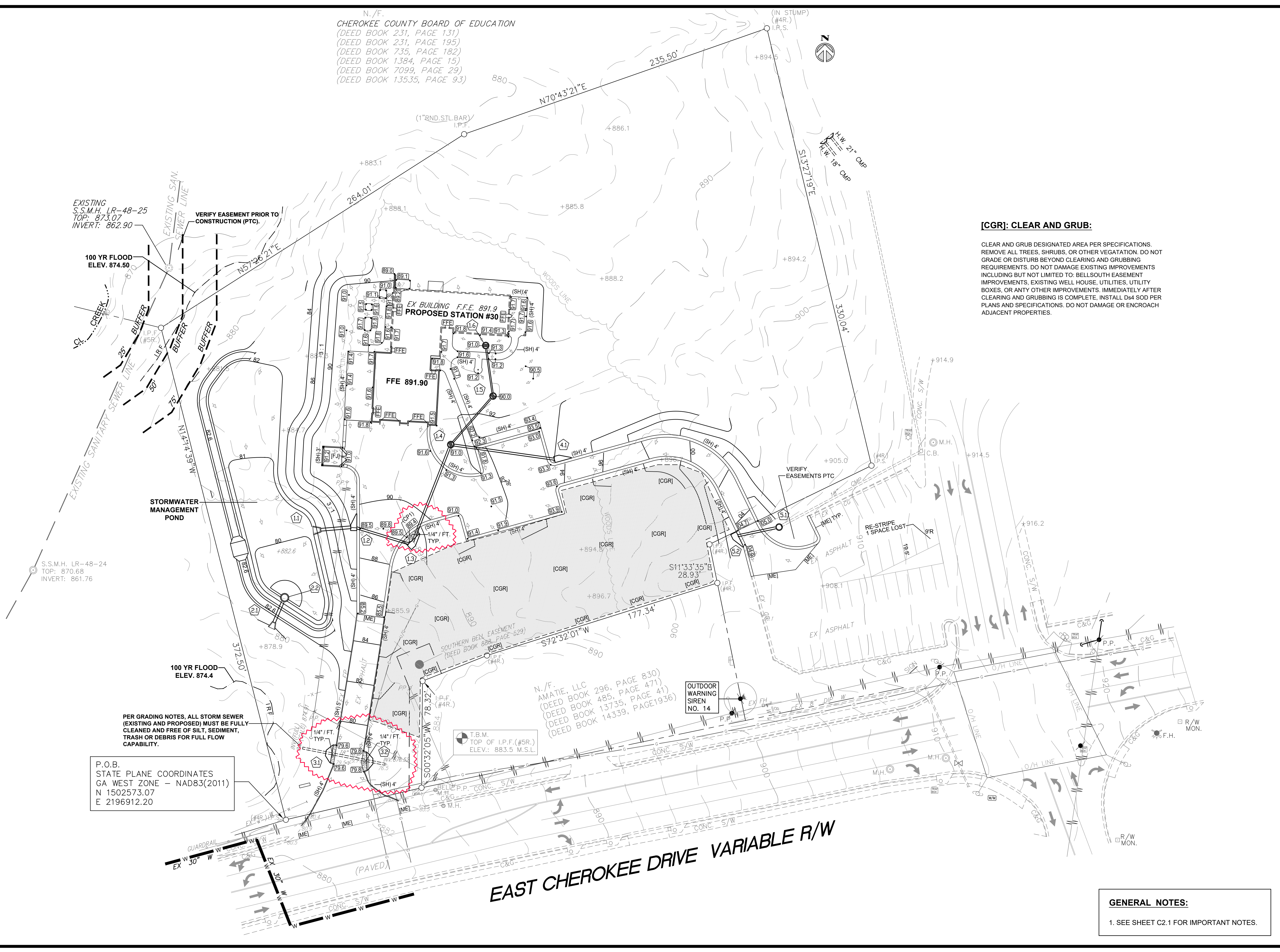
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SHEET INDEX  
 GRADING PLAN  
 SHEET INDEX

C3

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**[CGR]: CLEAR AND GRUB:**  
 CLEAR AND GRUB DESIGNATED AREA PER SPECIFICATIONS. REMOVE ALL TREES, SHRUBS, OR OTHER VEGETATION. DO NOT GRADE OR DISTURB BEYOND CLEARING AND GRUBBING REQUIREMENTS. DO NOT DAMAGE EXISTING IMPROVEMENTS INCLUDING BUT NOT LIMITED TO: BELLSOUTH EASEMENT IMPROVEMENTS, EXISTING WELL HOUSE, UTILITIES, UTILITY BOXES, OR ANY OTHER IMPROVEMENTS. IMMEDIATELY AFTER CLEARING AND GRUBBING IS COMPLETE, INSTALL D#4 SOD PER PLANS AND SPECIFICATIONS. DO NOT DAMAGE OR ENCRoACH ADJACENT PROPERTIES.

P.O.B.  
 STATE PLANE COORDINATES  
 GA WEST ZONE - NAD83(2011)  
 N 1502573.07  
 E 2196912.20

PER GRADING NOTES, ALL STORM SEWER (EXISTING AND PROPOSED) MUST BE FULLY CLEANED AND FREE OF SILT, SEDIMENT, TRASH OR DEBRIS FOR FULL FLOW CAPABILITY.

T.B.M.  
 TOP OF I.P.F. (#5R.)  
 ELEV.: 883.5 M.S.L.

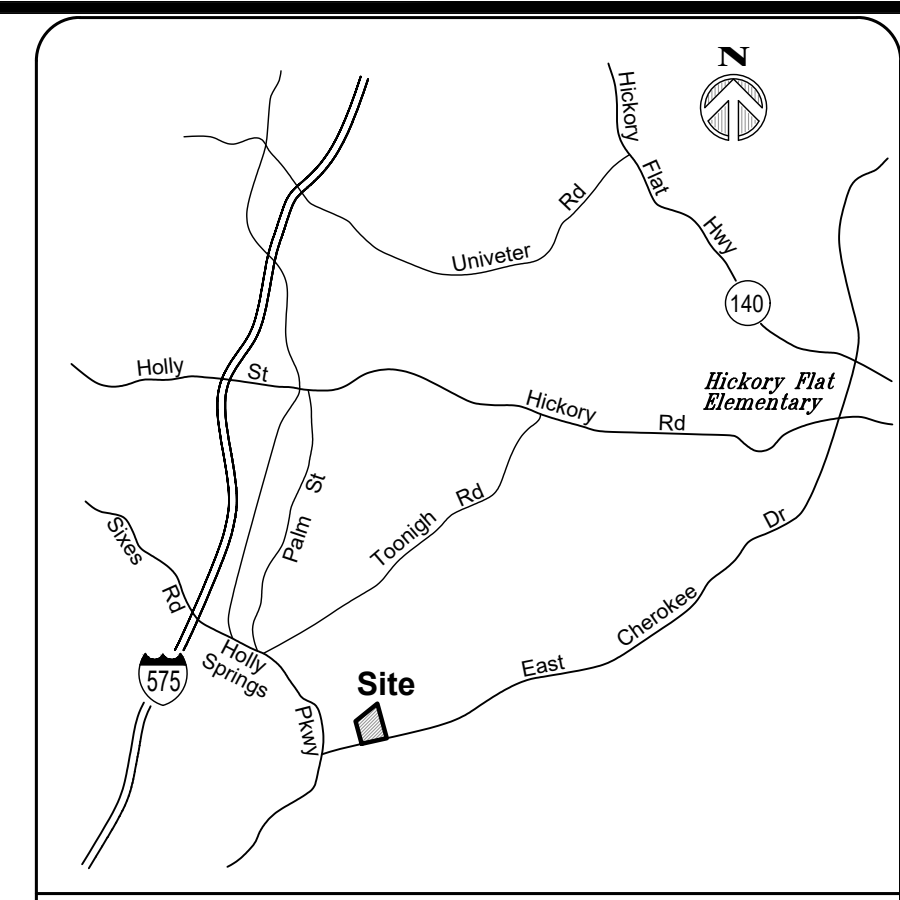
N./F. AMATIE, LLC  
 (DEED BOOK 296, PAGE 830)  
 (DEED BOOK 485, PAGE 471)  
 (DEED BOOK 13735, PAGE 41)  
 (DEED BOOK 14339, PAGE 1936)

OUTDOOR WARNING SIREN NO. 14

EAST CHEROKEE DRIVE VARIABLE R/W

**GENERAL NOTES:**  
 1. SEE SHEET C2.1 FOR IMPORTANT NOTES.

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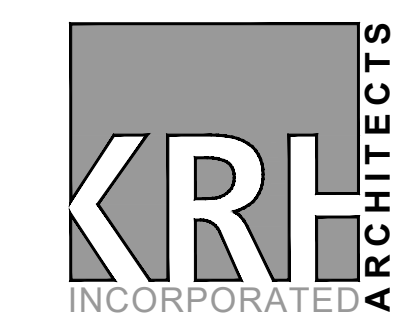
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FACILITY CODE



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2017 EAST CHEROKEE DRIVE WOODSTOCK, GA 30188

ISSUE DATE: 03-22-24  
 JOB NO. 22280 SCALE: 1" = 30'

LOCATION MAP

EXISTING	PROPOSED	EXISTING SPOT ELEVATION	PROPOSED SPOT ELEVATION
AC--ACRES	PB--PLAT BOOK	+ 1030.93	133.2
BC--BACK OF CURB	PG--PAGE		
BL--BUILDING SETBACK	PL--PROPERTY LINE		
CB--CATCH BASIN	POB--POINT OF BEGINNING		
CG--CURB & GUTTER	PP--POWER POLE		
CH--CHORD	PS--PARKING SPACE		
CL--CENTERLINE	PTC--PRIOR TO CONSTRUCTION		
CMP--CORR. METAL PIPE	R--RADIUS		
DB--DEED BOOK	RCR--REINFORCED CONC. PIPE		
DE--DRAINAGE EASEMENT	RD--ROOF DRAIN		
DI--DROP INLET	RR--RAILROAD		
EP--EDGE PAVEMENT	R/W--RIGHT OF WAY		
EX--EXISTING	SD--STORM DRAIN		
FM--FIRE HYDRANT	SF--SQUARE FEET		
G--GAS LINE	SS--SANITARY SEWER		
HW--HEADWALL	SSE--SAN. SEWER EASEMENT		
HD--HEAVY DUTY	SSMH--SAN. SEWER MANHOLE		
IPP--IRON PIN PLACED	SW--CONCRETE SIDEWALK		
IPF--IRON PIN FOUND	TB--THRUST BLOCK		
JB--JUNCTION BOX	TBR--TO BE REMOVED		
L--ARC LENGTH	TC--TOP OF CURB		
LOC--LIMIT OF CLEARING	TELE--TELEPHONE		
LP--LIGHT /LAMP POST	TR--TO REMAIN		
MH--MANHOLE	TW--TOP OF WALL		
N/F--NOW OR FORMERLY	W--WATER		
OHP--OVERHEAD POWER	WV--WATER VALVE		

LEGEND

**GENERAL NOTES:**

- SEE SHEET C2.1 FOR IMPORTANT NOTES.

**UTILITY CONSTRUCTION NOTES:**

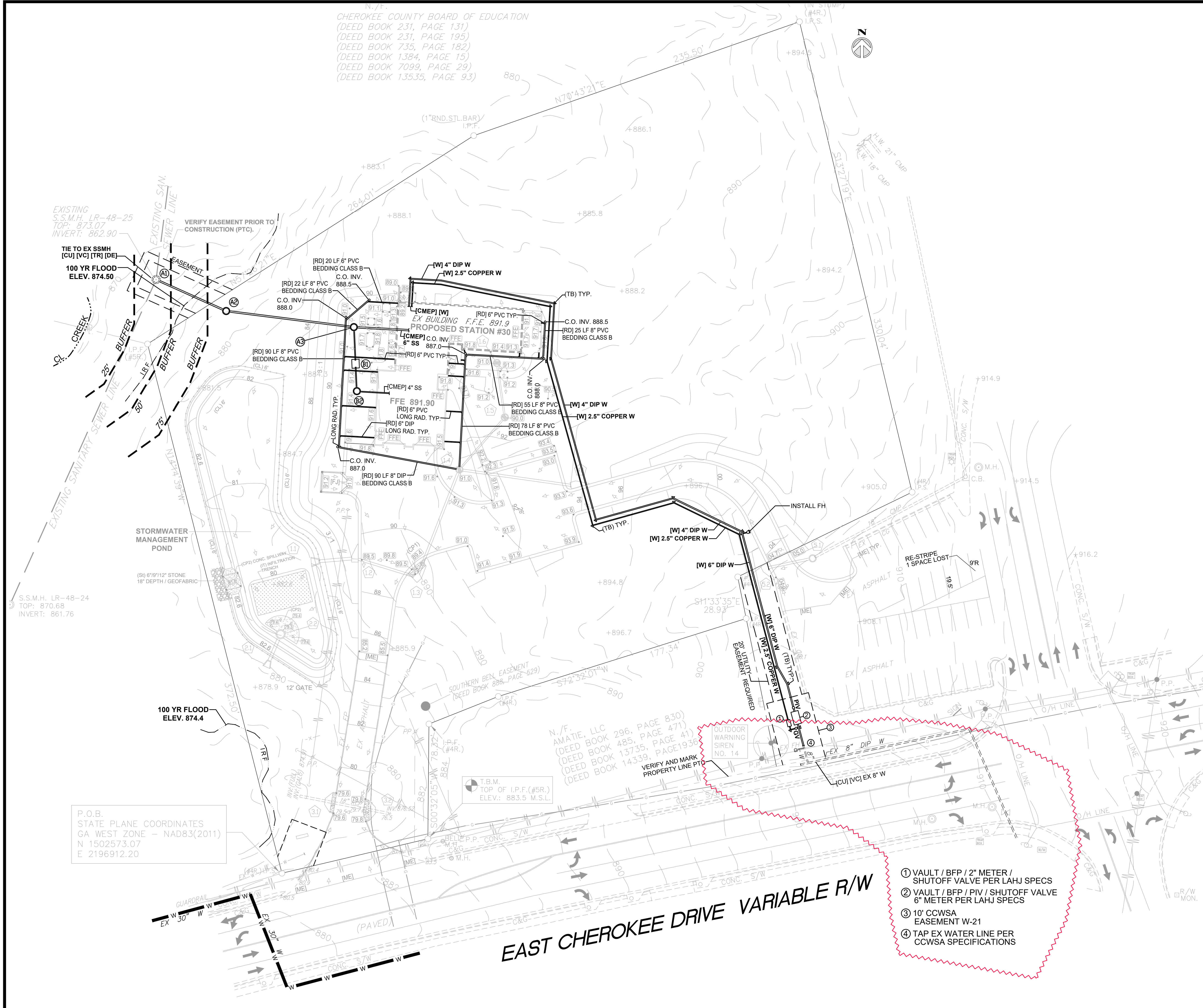
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION STANDARDS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO: FIRE HYDRANTS, WATER LINES, VALVES, JUNCTIONS, VAULTS, CHECK VALVES, BFP'S, AND ALL OTHER UTILITY RELATED STRUCTURES OR IMPROVEMENTS REQUIRED TO COMPLETE THE WORK.
- ALL UTILITY TAP(S) PROCEDURES SHALL CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION STANDARDS AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR ALL WATER, SEWER, OR OTHER UTILITY TAPPING COSTS, METERS, BFP, VALVES, FEES, PERMITS, AND PROCESS REQUIREMENTS, AND ALL OTHER COSTS AS REQUIRED TO PROVIDE FULLY OPERATIONAL UTILITY SERVICE PER THE LAHJ.
- MAINTAIN ALL EXISTING UTILITY SERVICE(S) AT ALL TIMES.
- PROVIDE TRAFFIC CONTROL (TC) FOR ALL WORK IN RIGHT-OF-WAY AND WORK WHICH IMPACTS TRAFFIC FLOW ONSITE. COORDINATE AND COMPLY WITH THE LOCAL AUTHORITY HAVING JURISDICTION STANDARDS AND SPECIFICATIONS.
- OWNER/DEVELOPER IS RESPONSIBLE FOR VERIFICATION OF ADEQUATE WATER PRESSURE FOR THE PROPOSED CONSTRUCTION.
- DO NOT OPEN CUT ANY ROAD WITHOUT WRITTEN PERMISSION FROM THE LOCAL AUTHORITY HAVING JURISDICTION. VERIFY PTC.
- TESTING AND CLEANING OF ALL LINES SHALL BE CONTRACTOR'S RESPONSIBILITY PER LOCAL AUTHORITY REQUIREMENTS AND SPECIFICATIONS.
- TRANSFORMER PAD LOCATION IS IN COMPLIANCE WITH IFC 604.12. MINIMUM 10 FEET FROM BUILDINGS, WALKWAYS CONNECTED TO BUILDING, 14 FEET FROM ANY DOORWAY.

**CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY NOTES:**

- SEE SHEET C7.4 FOR CHEROKEE COUNTY WATER & SEWERAGE AUTHORITY POTABLE WATER SYSTEM GENERAL CONSTRUCTION NOTES.
- A COPY OF THE CCWSA STANDARD DETAIL BOOKLET MUST BE KEPT WITH THE STAMPED PLANS AT ALL TIMES.
- NO LANDSCAPING (TREES, PLANTS, OR SHRUBS) OR STRUCTURES ALLOWED INSIDE CCWSA EASEMENT.
- AS BUILT RECORD DRAWINGS AND CCWSA UTILITY EASEMENTS PER CCWSA SPECIFICATIONS AND EASEMENT POLICY HANDBOOK, SHALL BE SUBMITTED AND APPROVED BY CCWSA GIS DEPARTMENT AND INSPECTOR PRIOR TO THE RELEASE OF ANY METER SALES.

- VAULT / BFP / 2" METER / SHUTOFF VALVE PER LAHJ SPECS
- VAULT / BFP / PIV / SHUTOFF VALVE 6" METER PER LAHJ SPECS
- 10' CCWSA EASEMENT W-21
- TAP EX WATER LINE PER CCWSA SPECIFICATIONS

**EAST CHEROKEE DRIVE VARIABLE R/W**



P.O.B.  
 STATE PLANE COORDINATES  
 GA WEST ZONE - NAD83(2011)  
 N 1502573.07  
 E 2196912.20

T.B.M.  
 TOP OF I.P.F. (#5R.)  
 ELEV.: 883.5 M.S.L.

N./F.  
 AMATIE, LLC  
 (DEED BOOK 296, PAGE 830)  
 (DEED BOOK 485, PAGE 471)  
 (DEED BOOK 13735, PAGE 41)  
 (DEED BOOK 14339, PAGE 1936)  
 VERIFY AND MARK  
 PROPERTY LINE PT

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 EMS STATION #30**  
 2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
 CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX

UTILITY PLAN

SHEET INDEX

**C4**

REVISIONS	
NO.	DATE
ADD 2	03/20/24
ADD 4	04/12/24

FACILITY CODE



855 ABUTMENT ROAD  
SUITE FOUR  
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TEL. 706.529.5895

**PWR ENGINEERING**  
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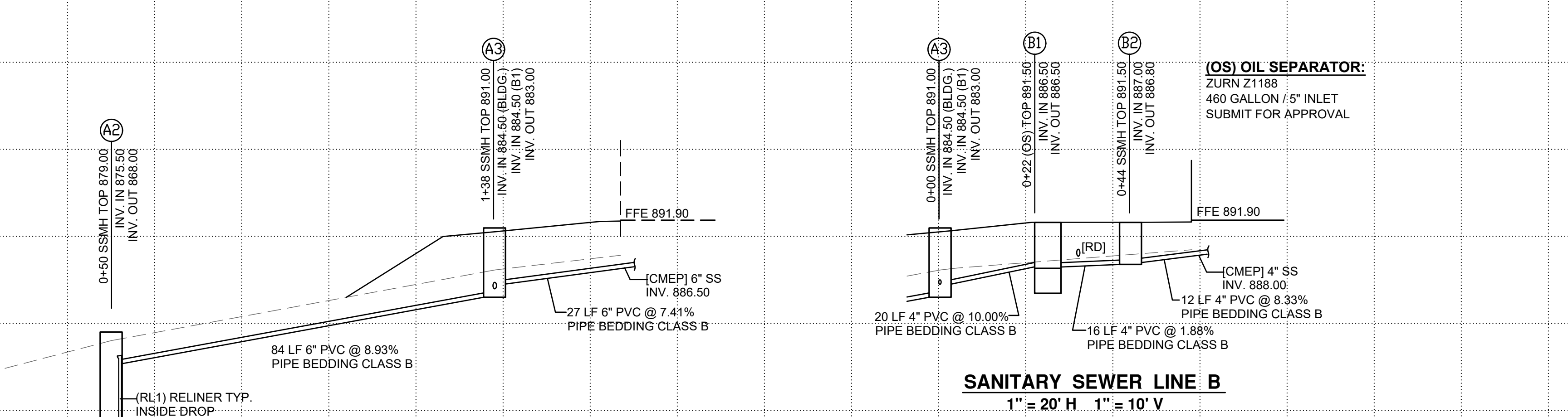
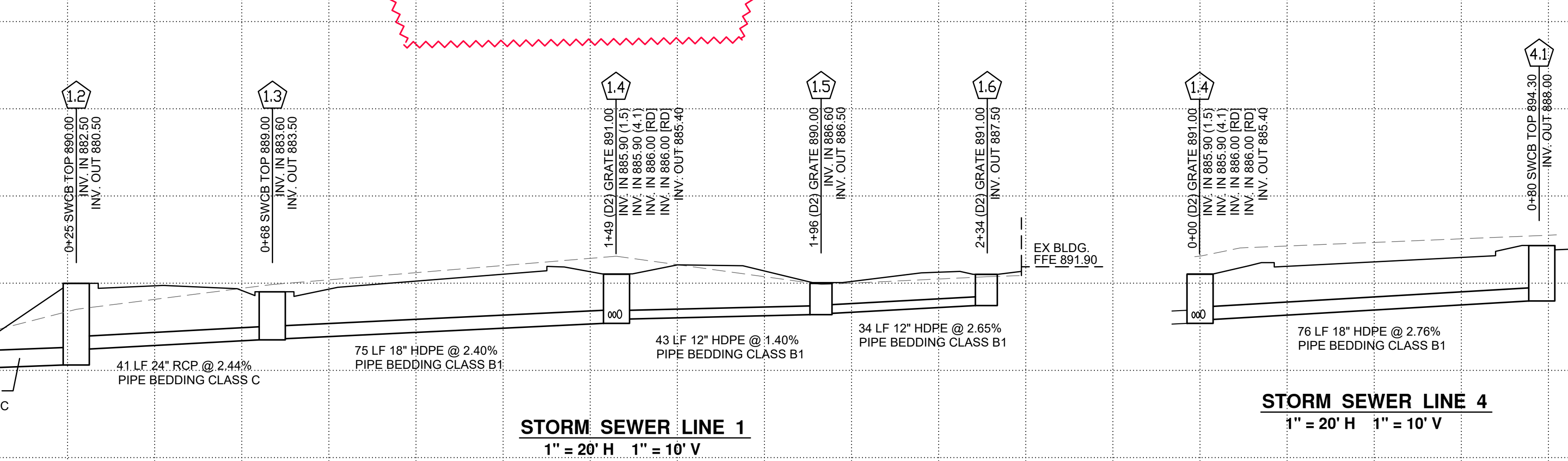
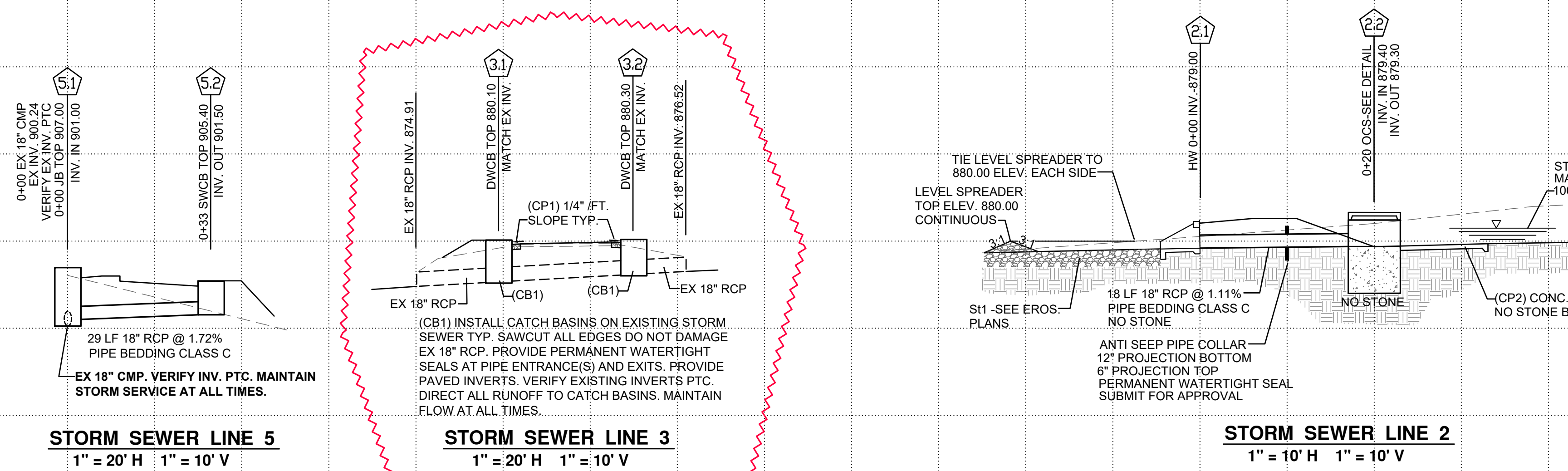
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PROFILES

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C5

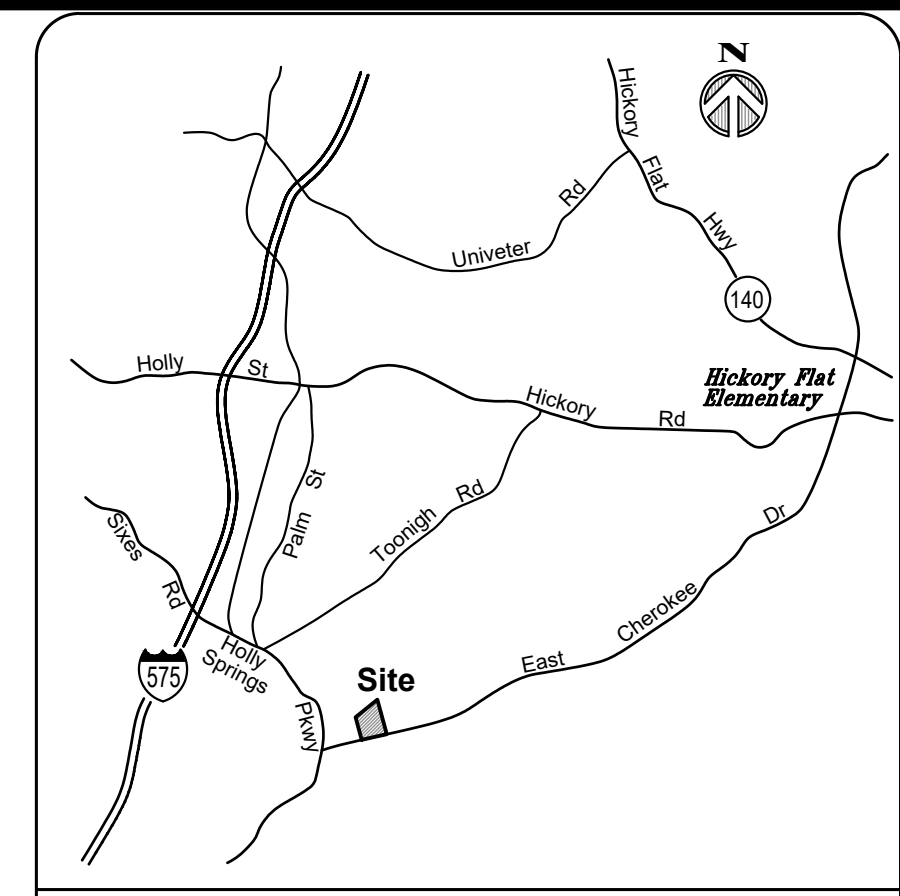
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 (DEED BOOK 13535, PAGE 93)

(IN STUMP)  
 (#4R.)  
 I.P.F.



LOCATION MAP

EXISTING	PROPOSED	EXISTING SPOT ELEVATION	PROPOSED SPOT ELEVATION
AC-ACRES	BC-BACK OF CURB	BL-BUILDING SETBACK	CB-CATCH BASIN
CG-CURB & GUTTER	CH-CHORD	CL-CENTERLINE	CMP-CORR. METAL PIPE
DB-DEED BOOK	DE-DRAINAGE EASEMENT	DI-DROP INLET	EP-EDGE PAVEMENT
EX-EXISTING	FM-FIRE HYDRANT	G-GAS LINE	HW-HEADWALL
HD-HEAVY DUTY	IPP-IRON PIN PLACED	IPF-IRON PIN FOUND	JB-JUNCTION BOX
L-ARC LENGTH	LOC-LIMIT OF CLEARING	LP-LIGHT/LAMP POST	MH-MANHOLE
N/F-NOW OR FORMERLY	OHP-OVERHEAD POWER	PB-PLAT BOOK	PL-PROPERTY LINE
POB-POINT OF BEGINNING	PP-POWER POLE	PS-PARKING SPACE	PTC-PRIOR TO CONSTRUCTION
R-RADIUS	RCR-REINFORCED CONC. PIPE	RD-ROOF DRAIN	RR-RAILROAD
R/W-RIGHT OF WAY	SD-STORM DRAIN	SF-SQUARE FEET	SS-SANITARY SEWER
SSE-SAN. SEWER EASEMENT	SSMH-SAN. SEWER MANHOLE	SW-CONCRETE SIDEWALK	TB-THRUST BLOCK
TBR-TO BE REMOVED	TC-TOP OF CURB	TELE-TELEPHONE	TR-TO REMAIN
TW-TOP OF WALL	W-WATER	WV-WATER VALVE	

LEGEND

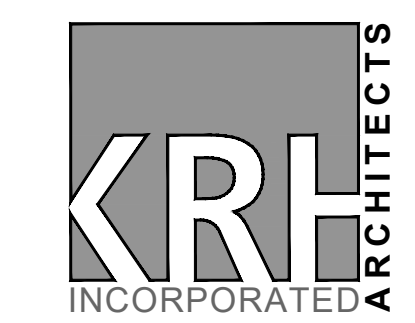
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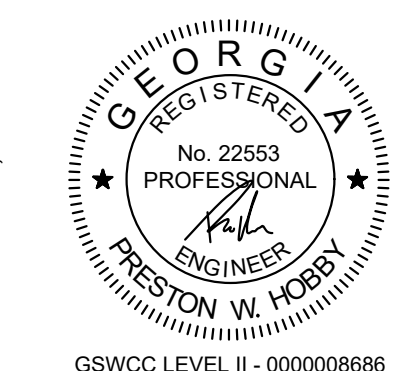
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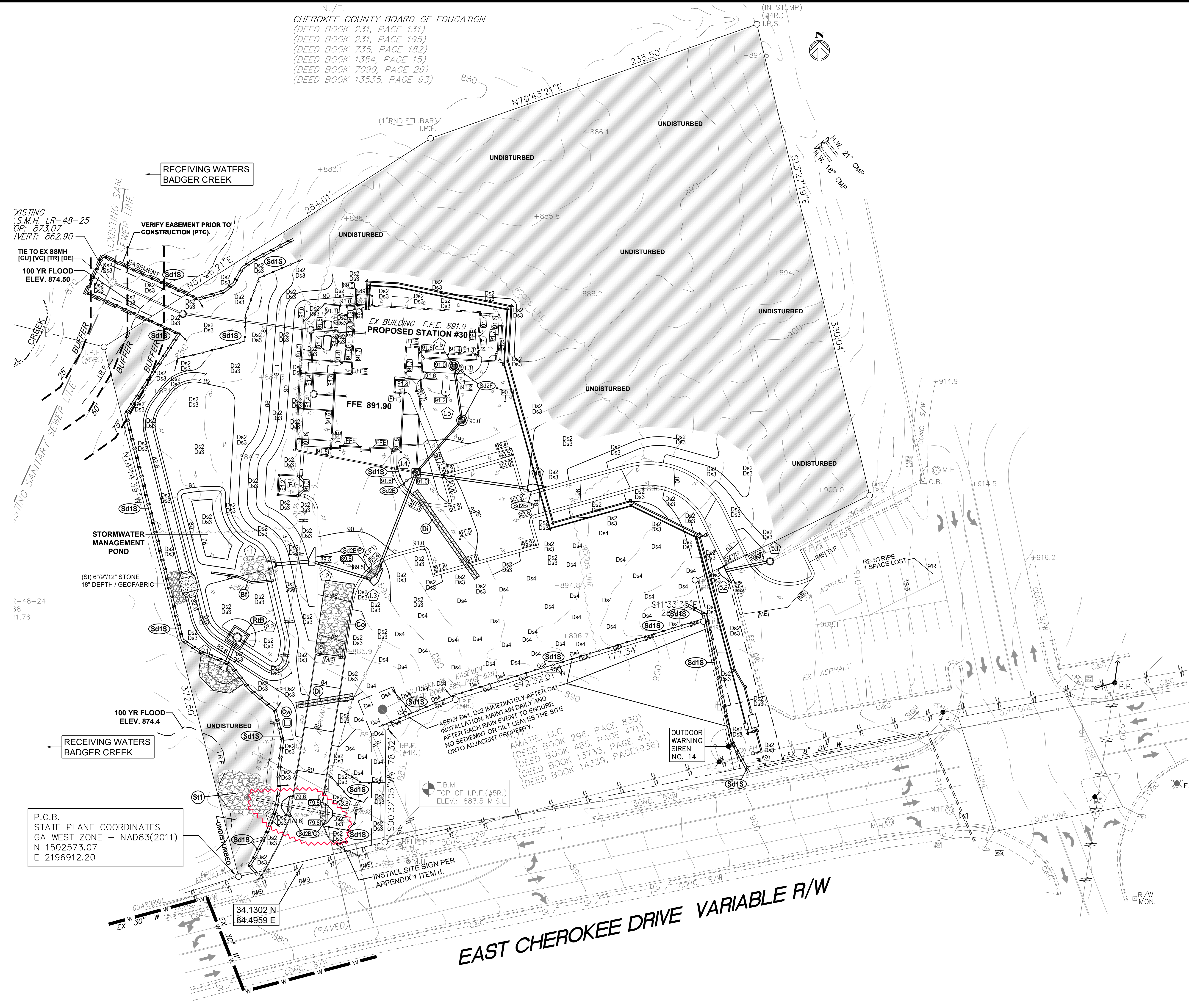
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SHEET INDEX

EROSION CONTROL  
 INTERMEDIATE PHASE

SHEET INDEX

**C6.4**



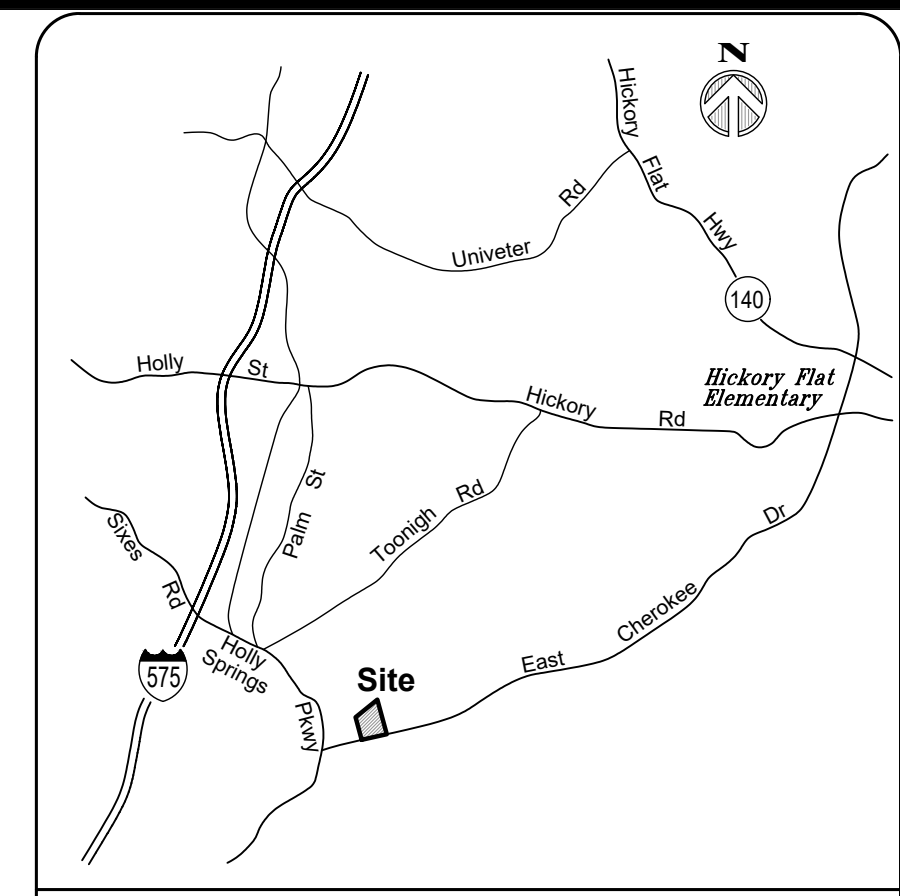
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(IN STUMP)  
 (#4R.)  
 I.P.F.



LOCATION MAP

EXISTING	PROPOSED	+ 10.70-9.93 EXISTING SPOT ELEVATION	+ 13.22 EXISTING SPOT ELEVATION
AC--ACRES	BL--BACK OF CURB	CB--CATCH BASIN	CG--CURB & GUTTER
CH--CHORD	CL--CENTERLINE	CMP--CORR. METAL PIPE	DB--DEED BOOK
DE--DRAINAGE EASEMENT	DI--DROP INLET	EP--EDGE PAVEMENT	EX--EXISTING
FM--FIRE HYDRANT	G--GAS LINE	HW--HEADWALL	HD--HEAVY DUTY
IPP--IRON PIN PLACED	IPF--IRON PIN FOUND	JB--JUNCTION BOX	L--ARC LENGTH
LOC--LIMIT OF CLEARING	LP--LIGHT/LAMP POST	MI--MANHOLE	N/F--NOW OR FORMERLY
OHP--OVERHEAD POWER	PB--PLAT BOOK	PG--PAGE	PL--PROPERTY LINE
POB--POINT OF BEGINNING	PP--POWER POLE	PS--PARKING SPACE	PTC--PRIOR TO CONSTRUCTION
R--RADIUS	RCR--REINFORCED CONC. PIPE	RD--ROOF DRAIN	RR--RAILROAD
R/W--RIGHT OF WAY	SD--STORM DRAIN	SF--SQUARE FEET	SS--SANITARY SEWER
SSE--SAN. SEWER EASEMENT	SSMH--SAN. SEWER MANHOLE	SW--CONCRETE SIDEWALK	TB--THRUST BLOCK
TBR--TO BE REMOVED	TC--TOP OF CURB	TELE--TELEPHONE	TR--TO REMAIN
TW--TOP OF WALL	W--WATER	WV--WATER VALVE	

LEGEND

**SITE LANDSCAPING:**

FURNISH AND INSTALL BUSHES/SHRUBS AND TREES PER SPECIFICATIONS AND NURSERY STANDARDS. SEE SPECIFICATIONS FOR FURTHER DETAILS.

(B1) BUSHES SHALL BE DWARF VARIETY MIN. 3 GALLON SIZE WITH MATURE HEIGHTS FROM 18" TO 42".

(B1) BUSHES SHALL BE A MIXTURE OF THE FOLLOWING:

1. DWARF LOROPETALUM
2. DWARF BOXWOOD
3. DWARF JAPANESE YEW
4. COMPACT FALSE CYPRESS
5. SUNSHINE LIGISTRUM DWARF PRIVET

TREES SHALL BE MIN. 3" DBH:

- (T1) NUTTALL OAK
- (T2) TRIDENT MAPLE

SUBMIT FINAL LAYOUT, MIXTURE, AND LOCATION OF ALL (B1) BUSHES/SHRUBS, TREES, AND MULCHING FOR APPROVAL PRIOR TO INSTALLATION.

LANDSCAPING LEGEND:	
	(B1) TYP.
	6" DEPTH SHREDDED HARDWOOD MULCH. DARK BROWN COLOR. NON WOVEN GEOTEXTILE FABRIC. SUBMIT FOR APPROVAL PTC.

MULCH:  
 6" DEPTH SHREDDED  
 HARDWOOD MULCH. DARK  
 BROWN COLOR. NON WOVEN  
 GEOTEXTILE FABRIC. SUBMIT  
 FOR APPROVAL PTC.

**EAST CHEROKEE DRIVE VARIABLE R/W**

RECEIVING WATERS  
 BADGER CREEK

RECEIVING WATERS  
 BADGER CREEK

EXISTING  
 S.S.M.H. LR-48-25  
 TOP: 873.07  
 INVERT: 862.90

TIE TO EX SSMH  
 [CU] [VC] [TR] [DE]  
 100 YR FLOOD  
 ELEV. 874.50

VERIFY EASEMENT PRIOR TO  
 CONSTRUCTION (PTC).

STORMWATER  
 MANAGEMENT  
 POND

(F1) PERMANENT FILTER:  
 2/3 48" ALUM. CMP - TOP 881.00  
 1" DIA. HOLES 8" O.C. EA. WAY  
 ENTIRE CIRCUMFERENCE AND HEIGHT  
 #57 STONE FROM TOP - SLOPE DOWN AT  
 2H:1V FOR ENTIRE PERIMETER. NO  
 BYPASS ALLOWED

100 YR FLOOD  
 ELEV. 874.4

P.O.B.  
 STATE PLANE COORDINATES  
 GA WEST ZONE - NAD83(2011)  
 N 1502573.07  
 E 2196912.20

34.1302 N  
 84.4959 E

N./F. AMATIE, LLC  
 (DEED BOOK 296, PAGE 830)  
 (DEED BOOK 485, PAGE 471)  
 (DEED BOOK 13735, PAGE 41)  
 (DEED BOOK 14339, PAGE 1936)

OUTDOOR  
 WARNING  
 SIREN  
 NO. 14

T.B.M.  
 TOP OF I.P.F. (#5R.)  
 ELEV.: 883.5 M.S.L.

PROJECT NUMBER  
**23-017**

DATE  
**09/25/23**

REVISIONS

NO.	DATE
ADD 2	03/20/24
ADD 4	04/12/24

FACILITY CODE

**KRH ARCHITECTS**  
 INCORPORATED

855 ABUTMENT ROAD  
 SUITE FOUR  
 DALTON, GA 30721  
 TEL. 706.529.5895

**PWR ENGINEERING**  
 CIVIL ENGINEERING  
 SITE DEVELOPMENT

2900 DELA ROAD STE 700 #218 • MARIETTA, GA 30067 • PH: 770-433-8190  
 2017 EAST CHEROKEE DRIVE WOODSTOCK, GA 30188

ISSUE DATE: 03-22-24  
 JOB NO. 22290 SCALE: 1" = 30'

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
 2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
 CHEROKEE COUNTY BOARD OF COMMISSIONERS

REGISTERED PROFESSIONAL ENGINEER  
 PRESTON W. HOBBY  
 No. 2255

GSWCC LEVEL II - 0000008688

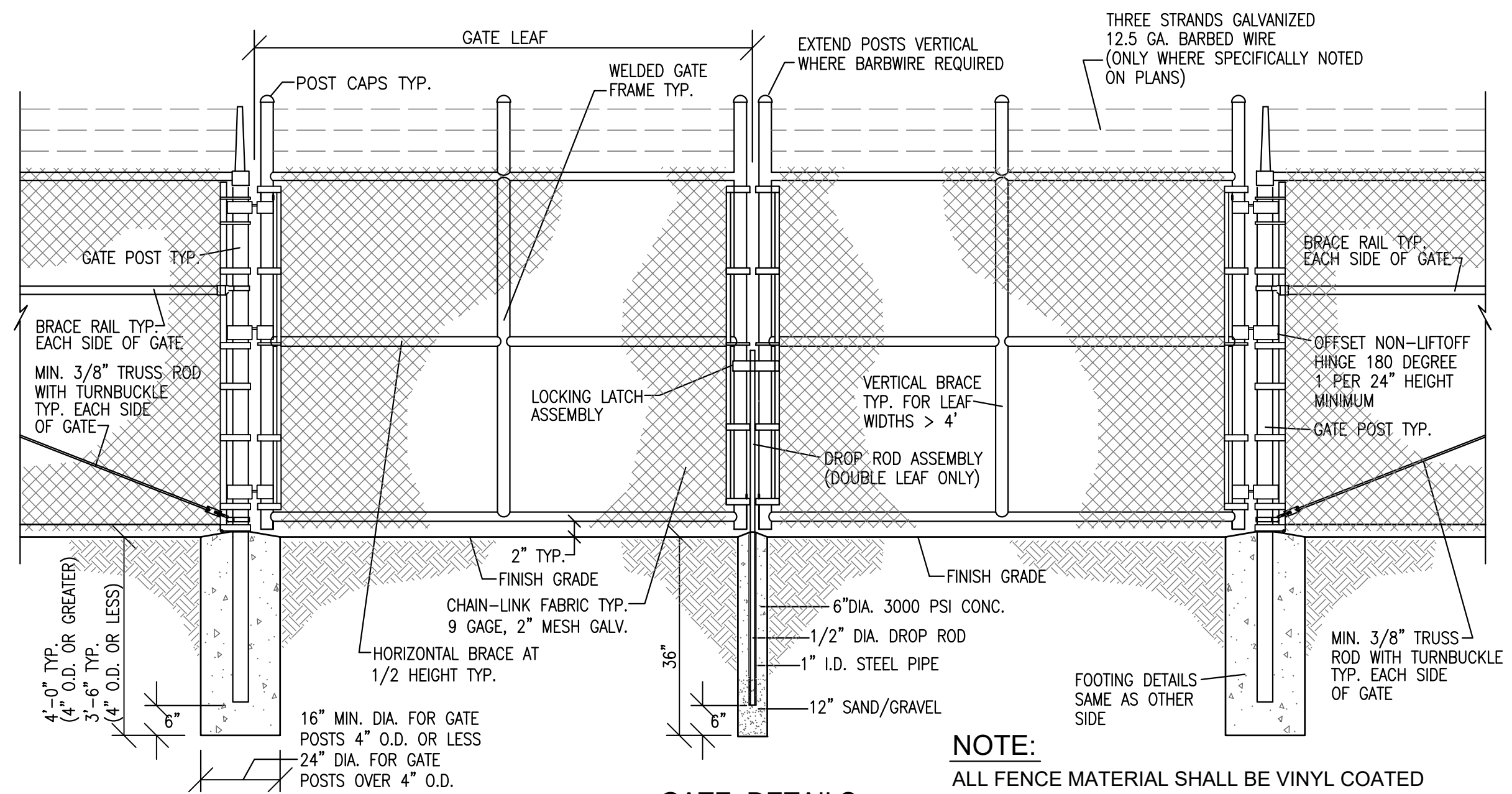
SHEET INDEX

LANDSCAPING PLAN

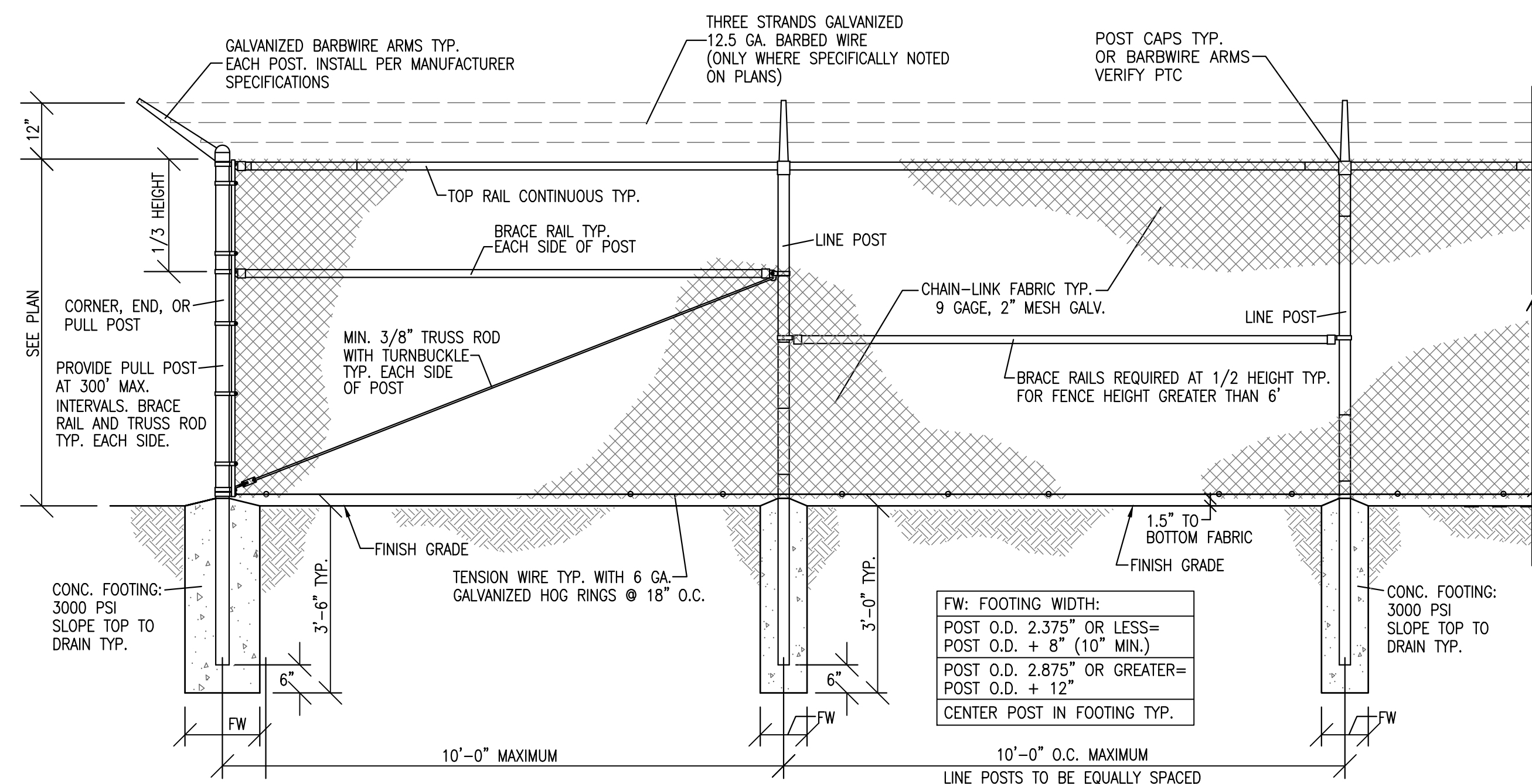
SHEET INDEX

**C6.51**

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**NOTE:**  
ALL FENCE MATERIAL SHALL BE VINYL COATED  
VERIFY COLOR PER ARCHITECT PRIOR TO PURCHASE.

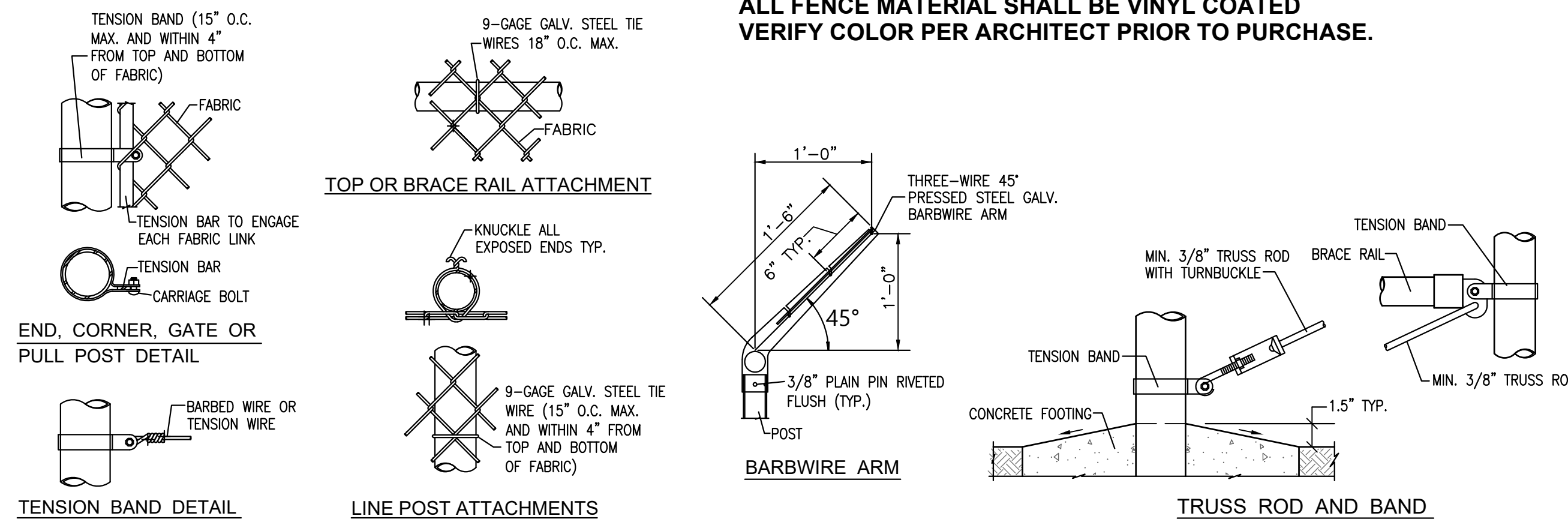


**FW: FOOTING WIDTH:**  
POST O.D. 2.375" OR LESS = POST O.D. + 8" (10" MIN.)  
POST O.D. 2.875" OR GREATER = POST O.D. + 12"

POST & RAIL SCHEDULE			
TYPE	FENCE HEIGHT 6' OR LESS	FENCE HEIGHT 6' TO 8'	FENCE HEIGHT OVER 8'
CORNER, END, TERMINAL & PULL POST	2.875" O.D.	2.875" O.D.	4.00" O.D.
LINE POST	1.90" O.D.	2.375" O.D.	2.875" O.D.
TOP, BOTTOM & BRACE RAIL	1.66" O.D.	1.66" O.D.	1.66" O.D.

GATE POST SCHEDULE	
GATE LEAF WIDTH	POST
6' OR LESS	2.875" O.D.
6' TO 12'	4.00" O.D.
12' TO 18'	6.625" O.D.

**NOTE:**  
ALL FENCE MATERIAL SHALL BE VINYL COATED  
VERIFY COLOR PER ARCHITECT PRIOR TO PURCHASE.



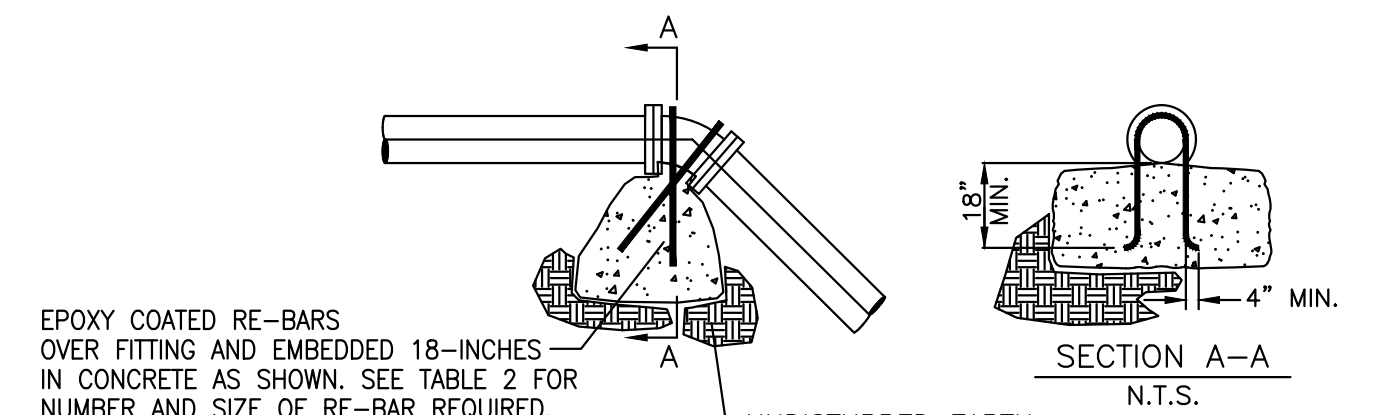
**CF) CHAIN-LINK FENCE DETAIL**

**TABLE 1**

FITTING SIZE	MINIMUM CUBIC YARDS CONCRETE ANCHOR BLOCK				
	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	11-1/4° BEND
4	2.0	1.3	1.0	1.0	1.0
6	3.5	2.2	1.3	1.0	1.0
8	5.6	3.2	1.9	1.3	1.0
10	8.0	5.1	2.6	1.6	1.0
12	10.8	5.9	3.0	1.5	1.0
14	14.4	7.8	4.1	2.0	1.0
16	18.8	10.1	5.1	2.6	1.0
18	23.4	12.8	6.5	3.3	1.0
20	29.0	15.6	8.0	4.1	1.0
24	41.1	22.2	11.4	5.7	1.0

**TABLE 2**

FITTING SIZE	MINIMUM NUMBER & SIZE STEEL RE-BAR REQUIRED				
	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND	11-1/4° BEND
4	2-#5	2-#5	2-#5	2-#5	2-#5
6	2-#5	2-#5	2-#5	2-#5	2-#5
8	2-#5	2-#5	2-#5	2-#5	2-#5
10	3-#5	2-#5	2-#5	2-#5	2-#5
12	4-#5	2-#5	2-#5	2-#5	2-#5
14	4-#6	3-#5	2-#5	2-#5	2-#5
16	4-#7	4-#5	2-#5	2-#5	2-#5
18	4-#7	3-#6	3-#5	2-#5	2-#5
20	4-#8	4-#6	3-#5	2-#5	2-#5
24	6-#8	4-#7	2-#7	2-#5	2-#5

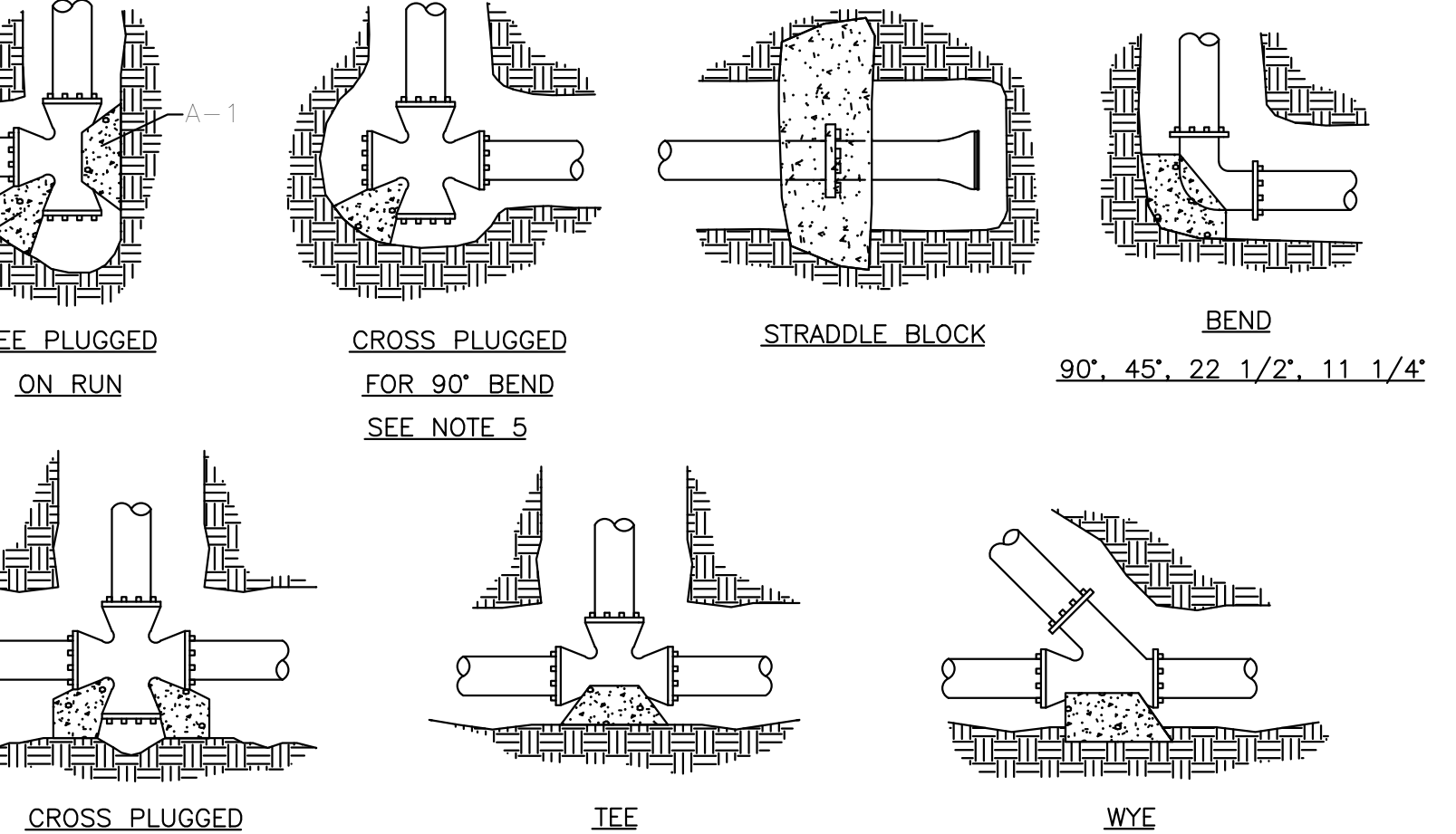


- NOTES:**
- THE VOLUMES SHOWN IN TABLE 1 ARE BASED ON TEST PRESSURES OF 200 PSI AND THE WEIGHT OF CONCRETE = 4050 LBS/CU.YD. TO COMPUTE VOLUME FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESSURE/150) X (TABLE VALUE).
  - THE NUMBER AND SIZE OF RE-BAR REQUIRED SHOWN IN TABLE 2 ARE BASED UPON GRADE 40 RE-BAR WITH A TENSILE STRENGTH OF 20,000 PSI AND A FS=1.5.
  - ALTERNATE JOINT RESTRAINT METHODS SUCH AS MEGA-LUG, ETC., MAY BE ACCEPTED BY WRITTEN APPROVAL OF THE ENGINEER.
  - CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
  - ALL CONCRETE TO BE 3000 PSI MINIMUM.
  - INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
  - FOR SOFT OR UNSUITABLE SOILS, CONSULT ENGINEER FOR THRUST BLOCK DESIGN
  - KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.

**HORIZONTAL MINIMUM BEARING AREA OF THRUST BLOCKS IN SQUARE FEET**

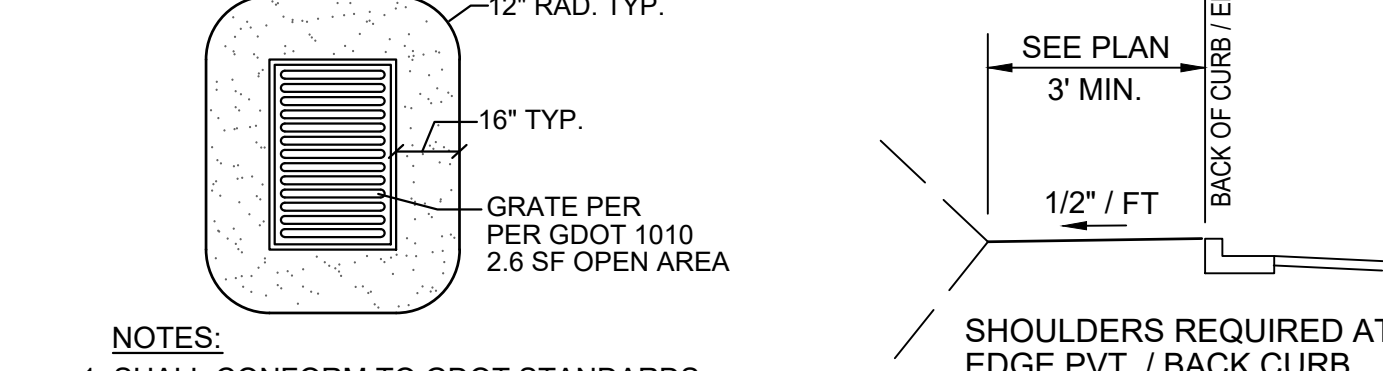
FITTING SIZE INCHES	TEE, WYE, PLUGGED CROSS	STRADDLE BLOCK	90° BEND PLUGGED CROSS	TEE PLUGGED ON RUN		45° BEND	22-1/2° BEND	11-1/4° BEND
				A-1	A-2			
4	2.0	3.0	3.5	3.5	2.8	2.5	2.0	1.5
6	4.0	6.0	6.0	7.0	5.0	3.0	2.0	1.5
8	6.0	10.0	10.2	12.0	8.5	5.0	3.0	2.0
10	8.9	15.3	15.5	17.7	12.6	6.9	3.6	1.8
12	12.8	22.1	21.8	25.5	18.0	9.9	5.1	3.1
14	17.3	32.0	29.3	34.5	24.5	13.4	6.9	3.5
16	22.5	39.2	37.5	45.0	32.5	20.6	10.5	5.3
18	28.5	51.0	47.6	57.0	40.5	25.8	13.2	6.6
20	35.3	61.2	58.5	70.5	50.0	32.2	16.2	7.1
24	51.0	88.2	73.5	102.0	72.0	39.3	20.4	10.2

- NOTES:**
- ABOVE BEARING AREAS BASED ON TEST PRESSURE OF 200 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 2000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION: BEARING AREA = (TEST PRESSURE / 150) X (2000 / SOIL BEARING STRESS) X (TABLE VALUE)
  - ABOVE VOLUMES BASED ON TEST PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE=4050 POUNDS PER CUBIC YARD. TO COMPUTE FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION: VOLUME = (TEST PRESSURE / 150) X (TABLE VALUE)



- NOTES:**
- CONCRETE BLOCKING TO BE POURED AGAINST UNDISTURBED EARTH.
  - ALL CONCRETE TO BE 3000 PSI MINIMUM.
  - INSTALL ISOLATION MATERIAL BETWEEN PIPE AND/OR FITTINGS BEFORE POURING CONCRETE BLOCKING.
  - CONCRETE SHALL BE KEPT CLEAR OF ALL JOINTS AND ACCESSORIES.
  - MAY NOT WORK OUT FOR ALL FITTING SIZES - CONFIRM USE OF THIS BLOCKING CONFIGURATION WITH ENGINEER.
  - FOR SOFT OR UNSUITABLE SOILS, CONSULT ENGINEER FOR THRUST BLOCK DESIGN

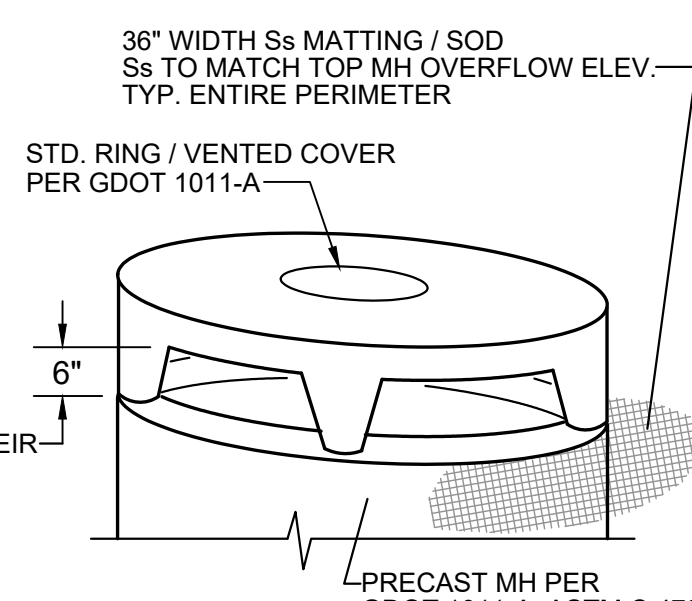
**(TB) THRUST BLOCK DETAIL**



- NOTES:**
- SHALL CONFORM TO GDOT STANDARDS, SPECIFICATIONS AND DETAILS

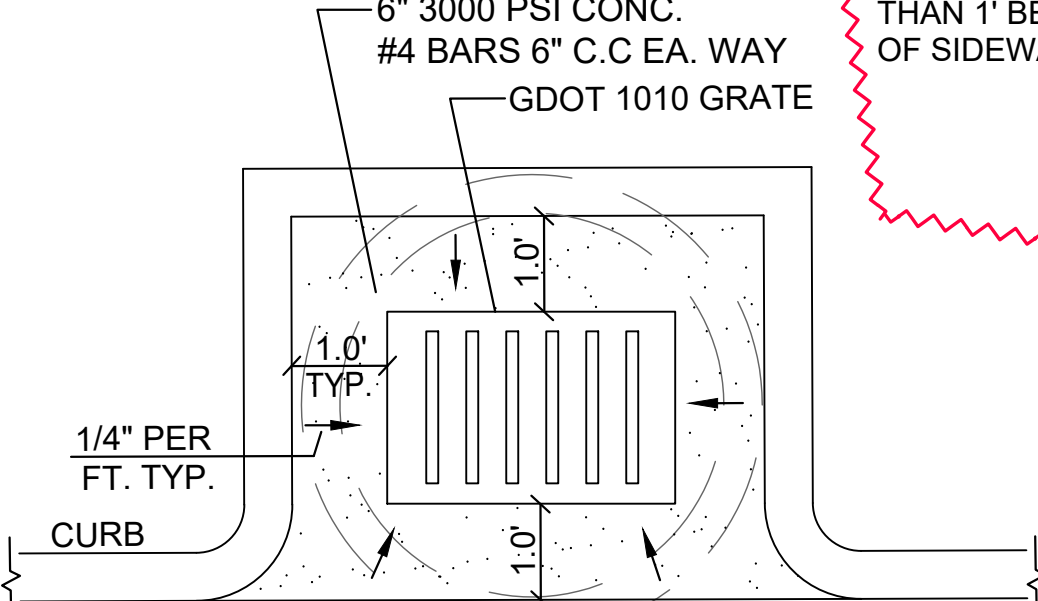
**(D2) DROP INLET DETAIL**

**(SH) TYPICAL SHOULDER SECTION NON RIGHT-OF-WAY ONLY**



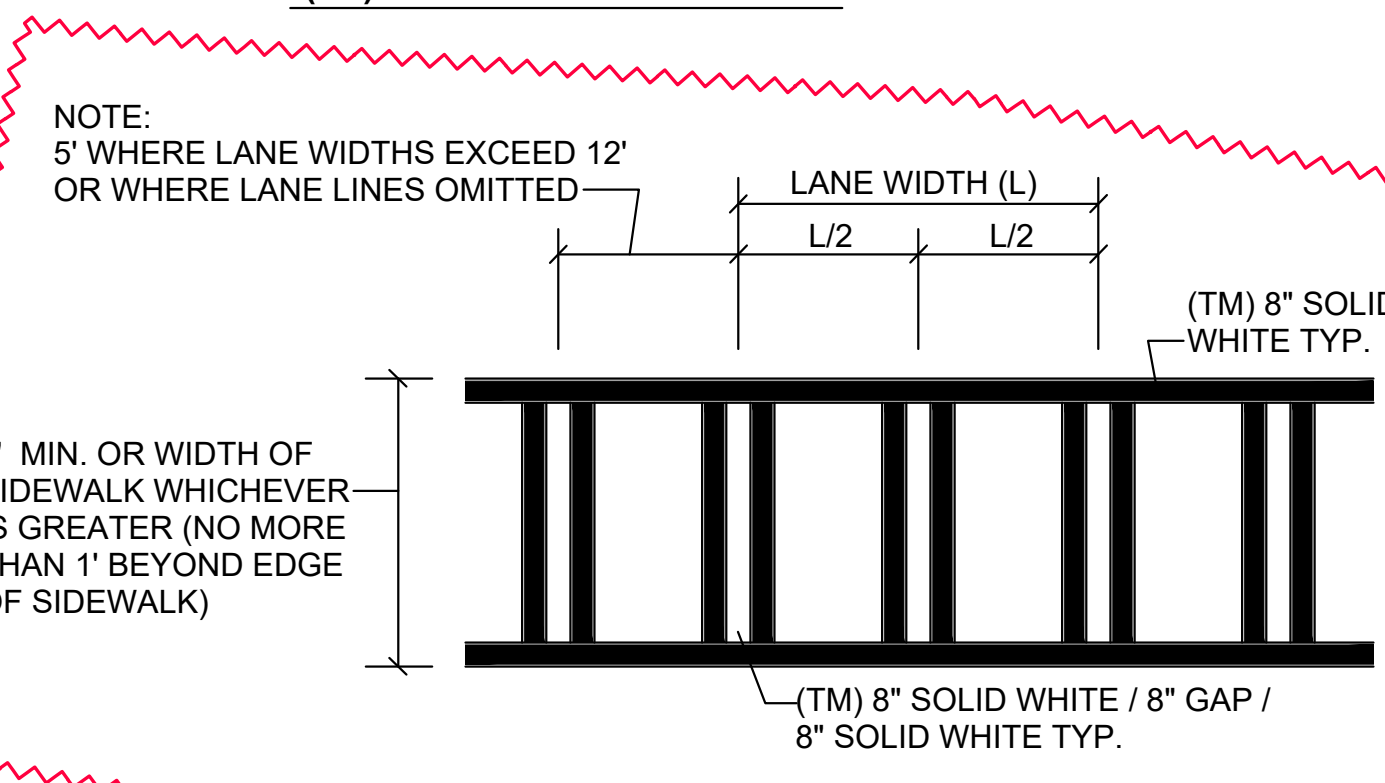
- NOTES:**
- SHALL CONFORM TO GDOT STANDARDS, SPECIFICATIONS AND DETAILS
  - PEDASTAL DESIGN PER MANUFACTURER.

**(D1) DROP INLET DETAIL**



- NOTES:**
- SHALL CONFORM TO GDOT STANDARDS, SPECIFICATIONS AND DETAILS

**(D3) OFFSET GRATE INLET**



**REVISIONS**

NO.	DATE
ADD 2	03/20/24
ADD 4	04/12/24



855 ABUTMENT ROAD SUITE FOUR DALTON, GA 30721 TEL. 706.529.5895

**PWR ENGINEERING**

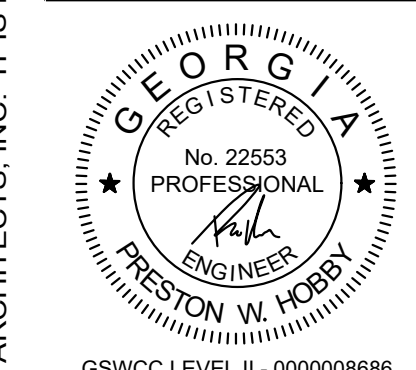
CIVIL ENGINEERING  
SITE DEVELOPMENT

2900 DELAWARE AVE STE 700 #218 • MARIETTA, GA 30067 • PH: 770-433-8190

2017 EAST CHEROKEE DRIVE WOODSTOCK, GA 30188

ISSUE DATE: 03-22-24  
JOB NO. 22280 | SCALE: 1" = 30'

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
CHEROKEE COUNTY BOARD OF COMMISSIONERS



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**GENERAL RENOVATION NOTES:**

\*ALL EXTERIOR SURFACES SHALL BE THOROUGHLY CLEANED BY THE CONTRACTOR UPON COMPLETION OF THE PROJECT.  
 \*PENETRATIONS IN THE ROOFING, CEMENTITIOUS SIDING, MASONRY VENEER, ETC. EXPOSED BY THE REMOVAL OF DEMOLISHED ITEMS SHALL BE PATCHED WITH MATERIALS TO MATCH.  
 \*MASONRY VENEER SHALL BE REPAIRED AT ALL AREAS NOTED PER THESE DOCUMENTS BUT CONTRACTOR SHALL ALSO ALLOW FOR FIFTY (100) SQUARE FEET OF NEW MASONRY VENEER REPAIR/INSTALLATION TO COVER ANY UNFORESEEN NEEDS.  
 \*SEE SHEET A4.2 FOR CASEWORK ELEVATIONS AND SHEET A4.3 FOR TYPICAL CASEWORK SECTIONS.

**KEYED RENOVATION NOTES:**

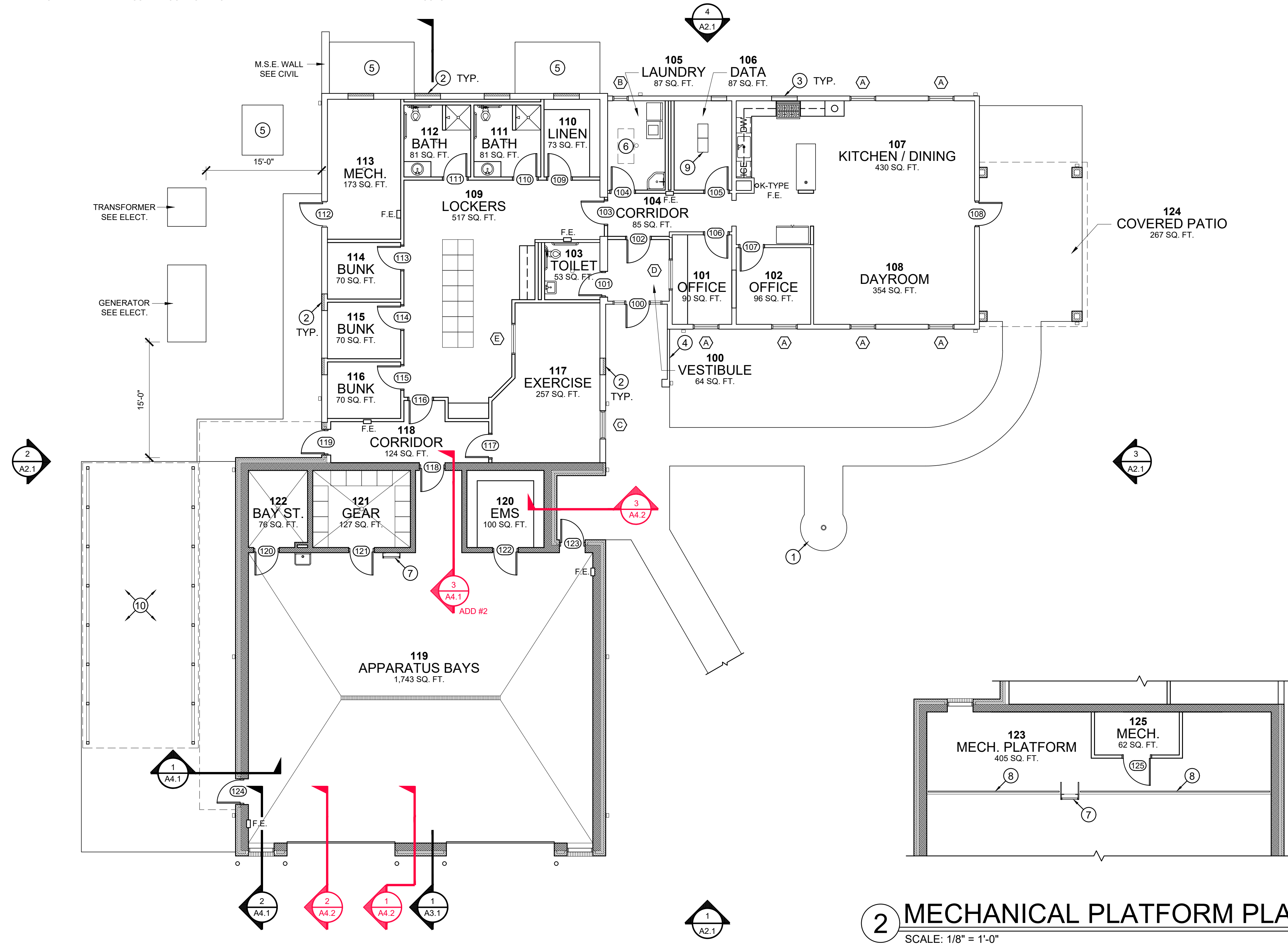
1. NEW FLAGPOLE AND ACCESSORIES. SEE SPECIFICATIONS. SEE ELECTRICAL FOR LIGHTING REQUIREMENTS. MOUNT FLAGPOLE IN NEW 3'-0" RADIUS CONCRETE SIDEWALK AS SHOWN. SEE CIVIL FOR SIDEWALK DETAILS.
2. INFILL VOID FROM REMOVED ITEMS WITH NEW MASONRY VENEER AND MORTAR TO MATCH EXISTING. REPAIR AND REPOINT SURROUNDING VENEER AS REQUIRED TO "TOOTH IN" NEW MASONRY ITEMS.
3. INFILL VOID FROM REMOVED ITEMS WITH NEW FRAMING, INSULATION AND CEMENTITIOUS SIDING TO MATCH EXISTING. REPAIR SURROUNDING VENEER AS REQUIRED TO "LAP IN" NEW SIDING. PREPARE ALL SURFACES FOR NEW PAINT.
4. EXISTING DECORATIVE BRICK ENTRY DETAILS TO REMAIN. REPAIR AND REPOINT MASONRY IN THIS LOCATION AS REQUIRED.
5. NEW POURED CONCRETE MECHANICAL PADS, SLOPE TO DRAIN AWAY FROM BUILDING. SEE DIMENSIONS AND VERIFY SIZES AND SLOPES WITH MECHANICAL REQUIREMENTS.
6. EXISTING ATTIC ACCESS LADDER TO REMAIN ABOVE. CLEAN, MAINTAIN, AND ADJUST AS NECESSARY. REPAINT ACCESS DOOR TO MATCH NEW FINISHES.

**KEYED RENOVATION NOTES (CONTINUED):**

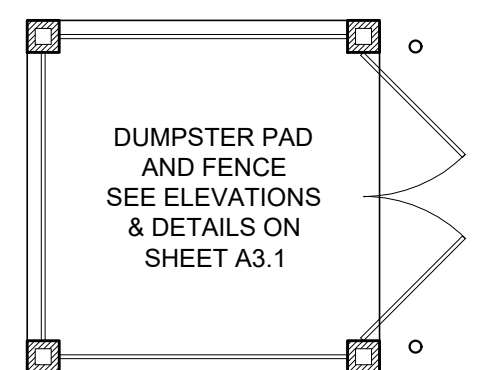
7. HEAVY DUTY ALUMINUM TUBULAR FIXED LADDER WITH WALK-THRU EQUAL TO PRECISION LADDERS, LLC. MODEL# FLH-04. BOLT SECURELY TO WALL IN LOCATION SHOWN. COORDINATE OPENING FOR LADDER WITH SAFETY RAILING SYSTEM ON MECHANICAL PLATFORM ABOVE.
8. STEEL SAFETY RAILING SYSTEM, SAFETY YELLOW, EQUAL TO GLOBAL INDUSTRIAL, KEE SAFETY, KWIK SS RAILING SYSTEM. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND FUNCTIONAL SYSTEM. SECURE RAILING SYSTEM BOOTS TO PLATFORM SLAB. COORDINATE INSTALLATION WITH ACCESS LADDER.
9. APPROXIMATE LAYOUT OF LOW VOLTAGE RACKS AND EQUIPMENT AND REQUIRED CLEARANCES. SEE SPECIFICATIONS AND ELECTRICAL FOR FURTHER INFORMATION.
10. STEEL COVERED BAY EQUAL TO 14'-0" WIDE X 36'-0" LONG X 12'-0" TALL LEG HEIGHT WITH 15'-2" PEAK HEIGHT UNIT BY GA PORTABLE BUILDINGS WITH 3" STEEL SIDE PANELS AT TOP. FRAMING SHALL BE 12 GAUGE. PANELS SHALL BE 26 GAUGE. SYSTEM SHALL BE CERTIFIED FOR 180 MPH LOAD. PROVIDE CONCRETE ANCHORS AT EACH CORNER AND EVERY 4'-0" O.C. MAX. AND FASTEN TO SLAB. PROVIDE COLOR MATCHED SCREWS FOR ALL PANELS. OWNER SHALL CHOOSE FROM MANUFACTURER'S FULL RANGE OF COLORS.

**PLAN LEGEND**

(100) - DOOR NUMBER TAG	- NEW CMU WALL AND MASONRY VENEER. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
(A) - NEW WINDOW TYPE TAG	- TYPICAL WINDOW
- NEW 5/8" GYP BD. AND 3-5/8" WOOD STUD PARTITION TO EXTEND TO BOTTOM OF EXISTING TRUSS UNLESS NOTED OTHERWISE. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.	F.E. - FIRE EXTINGUISHER AND CABINET
- EXISTING STUD WALL WITH NEW 5/8" GYP BOARD TO REPLACE DEMOLISHED WOOD PANELING AND TRIM.	



**2 MECHANICAL PLATFORM PLAN**  
 SCALE: 1/8" = 1'-0"



FOR CONSTRUCTION

PROJECT NUMBER  
**23-017**

DATE  
**03/13/24**

REVISIONS

NO.	DATE
ADDENDUM #2	03/21/24
ADDENDUM #4	04/12/24

FACILITY CODE  
**000-0000**

**KRH ARCHITECTS**  
 INCORPORATED

855 ABUTMENT ROAD  
 SUITE FOUR  
 DALTON, GA 30721  
 TEL. 706.529.5895

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
 2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
 CHEROKEE COUNTY BOARD OF COMMISSIONERS

STATE OF GEORGIA  
 KENNETH R. HARRISS  
 REGISTERED ARCHITECT

SHEET INDEX  
 NEW FLOOR PLAN

SHEET INDEX  
**A1.1**

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- KEYED REFLECTED CEILING PLAN NOTES:**
1. PROVIDE NEW 5/8" TYPE "X" GYPSUM ON METAL FURRING RATED CEILING IN THIS SPACE AS PER THE REQUIREMENTS OF U.L. #P521 AND SEAL ANY PENETRATIONS PER U.L. REQUIREMENTS AS WELL.
  2. PROVIDE ATTIC ACCESS PANEL OF SMOOTH NON-VENTED HARDIE SOFFIT PANEL, SIZED 23-7/8" X 47-7/8" WITH 3/4" X 2-1/2" BATTEN BOARDS TO MATCH SURROUNDING BAY CEILING FINISH.
  3. REPAIR AND REPAINT EXISTING ATTIC ACCESS LADDER TO REMAIN.
  4. NEW GYPSUM ON STUD HEADER, BOTTOM AT 8'-8" A.F.F. MATCH WIDTH OF FRAMED OUT OPENING.
  5. NEW GYPSUM ON STUD HEADER, BOTTOM AT 8'-8" A.F.F. NOMINAL 5" WIDE.

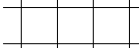

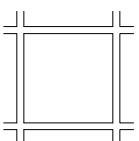
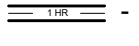

**GENERAL REFLECTED CEILING PLAN NOTES:**

\*ELECTRICAL AND MECHANICAL DEVICES SHOWN ON THESE PLANS ARE DIAGRAMMATIC ONLY. SEE ENGINEERING DRAWINGS FOR FURTHER INFORMATION.

\*SPACES SHOWN WITHOUT ACT OR GYP CEILING SYSTEMS SHALL BE OPEN TO STRUCTURE ABOVE. SPACES WITH EXPOSED OPEN STRUCTURE SHALL BE THOROUGHLY CLEANED AND FULLY PAINTED/FINISHED.

\*EXISTING PREFINISHED METAL SOFFIT, OVERHANGS, ROOFING, TRIM, ETC. TO BE REPAINTED SHALL BE THOROUGHLY CLEANED AND INSPECTED FOR ANY AREAS IN NEED OF REPAIR. REPORT ANY AREAS DISCOVERED IN NEED OF ATTENTION TO THE OWNER AND ARCHITECT IMMEDIATELY.

### PLAN LEGEND

	- NEW ACOUSTICAL TILE CEILING		- INDICATES NEW 1/2" GYPSUM BOARD CEILING INSTALLED OVER EXISTING CEILING AFTER DEMOLITION OF EXISTING "POPCORN" FINISH. FASTEN NEW CEILING AT 16" O.C. MAX. TO FRAMING ABOVE. PATCH ALL HOLES ENCOUNTERED AFTER REMOVAL OF DEMOLISHED CEILING MOUNTED DEVICES.
	- NEW NON-VENTED SMOOTH HARDIE SOFFIT PANELS, 4'-0" X 8'-0" SIZE ON LIGHT GAGE METAL FURRING CHANNELS EVERY 2'-0" O.C. MAX. INSTALLED PERPENDICULAR TO TRUSSES WITH 3/4" THICK X 2-1/2" WIDE HARDIE TRIM SMOOTH BATTEN BOARDS EVERY 4'-0" O.C. EACH WAY.		- ONE HOUR RATED PARTITION SEALED TIGHT TO RATED CEILING PER U.L. DESIGNS #U419 AND #P521. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.
	- TWO HOUR RATED PARTITION SEALED TIGHT TO DECK PER U.L. DESIGN #U905. SEE PLANS AND DETAILS FOR FURTHER INFORMATION.		

PROJECT NUMBER  
**23-017**

DATE  
**03/13/24**

REVISIONS

NO.	DATE
<b>ADDENDUM #4</b>	<b>04/12/24</b>

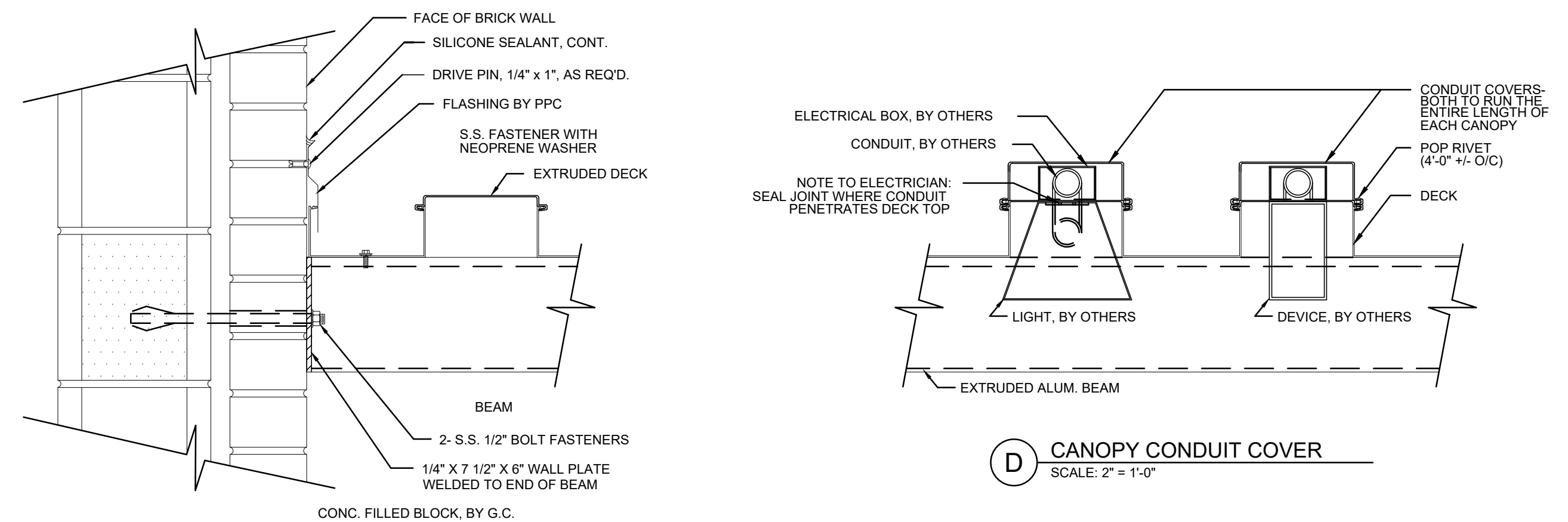
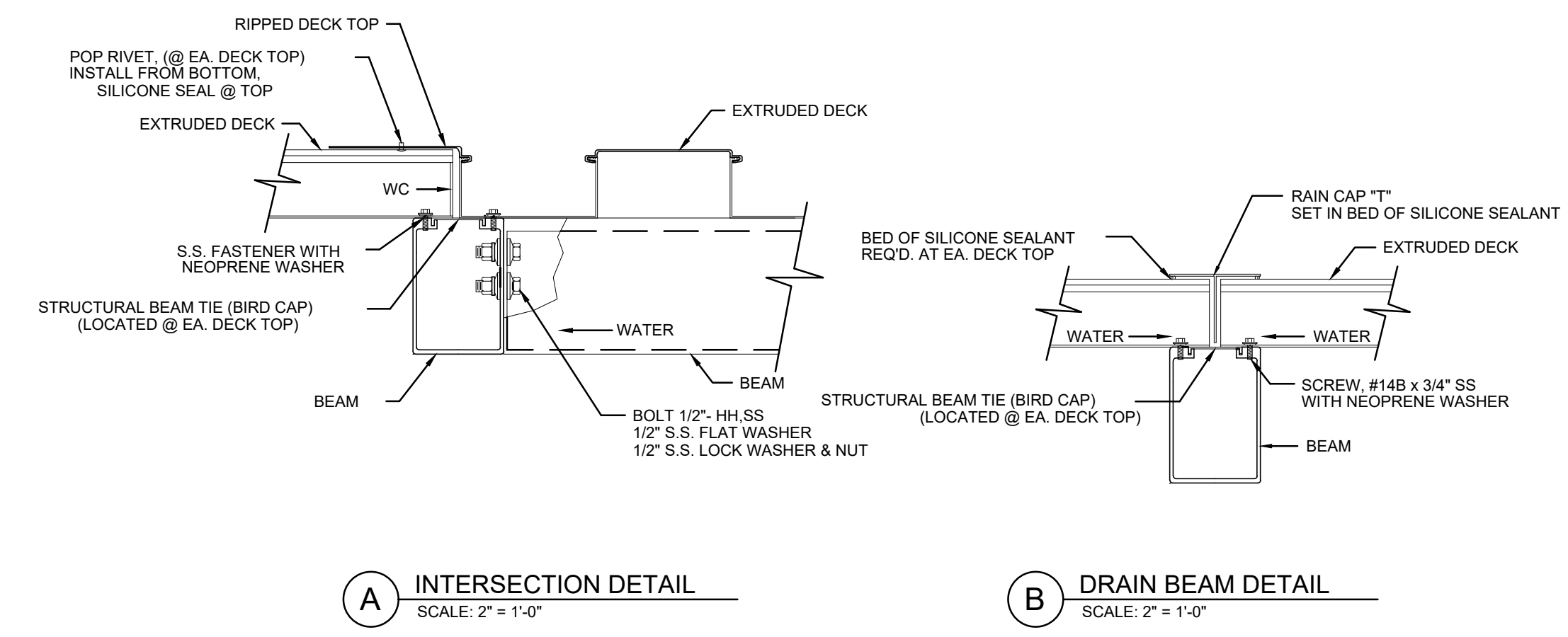
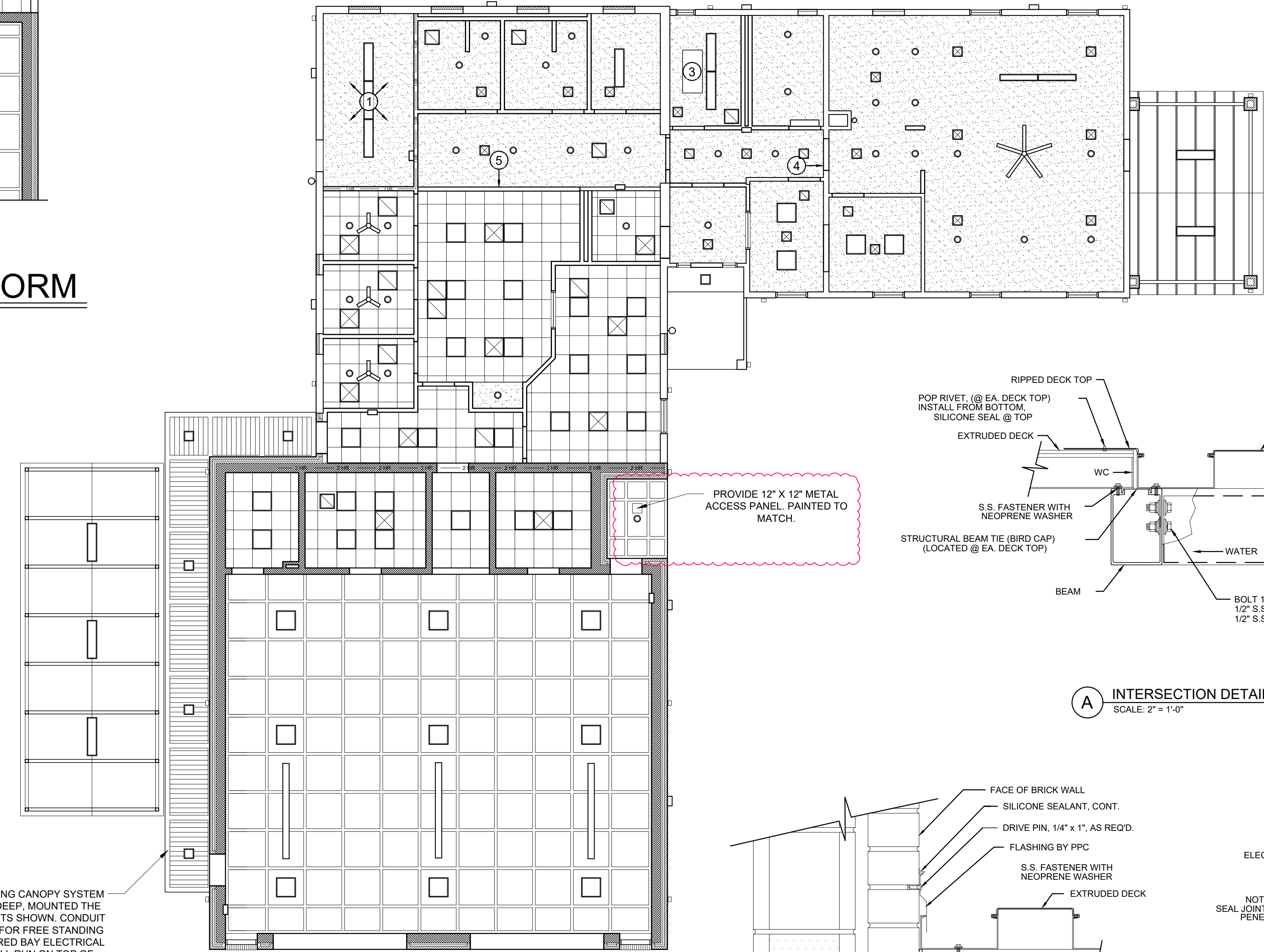
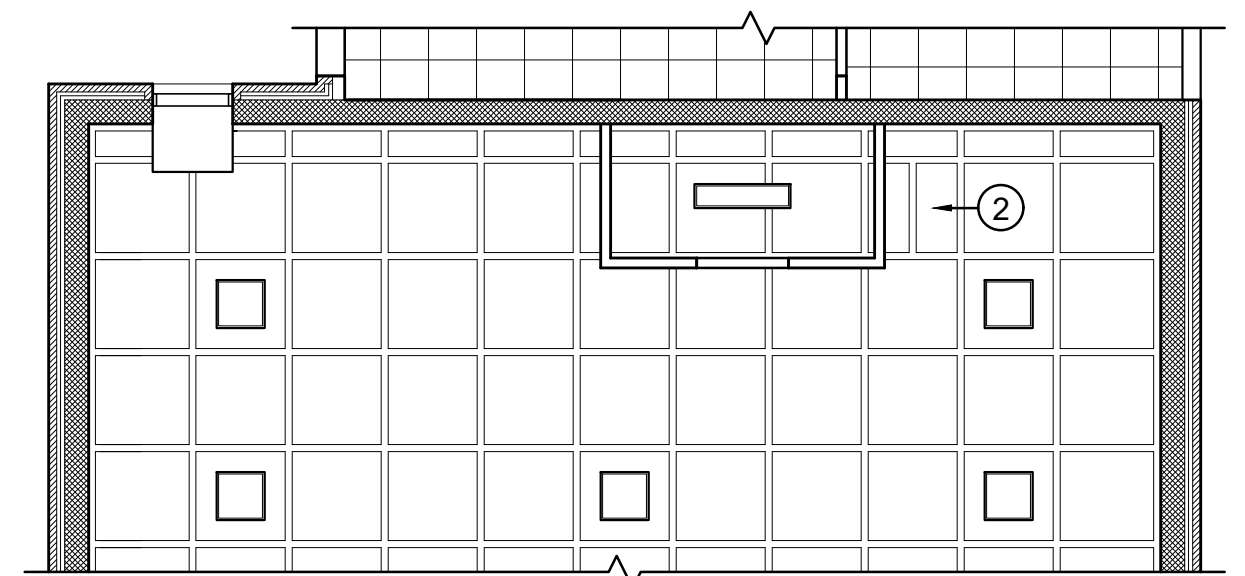
FACILITY CODE  
**000-0000**



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

## 2 R.F.C. PLAN AT MECH. PLATFORM

SCALE: 1/8" = 1'-0"



## 3 TYP. CANOPY DETAILS

SCALE: 2" = 1'-0"

# 1 EMS STATION #30 REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0" 5,928 S.F. GROSS

FOR CONSTRUCTION

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX  
REFLECTED  
CEILING PLAN

SHEET INDEX

**A1.2**

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### PLAN LEGEND

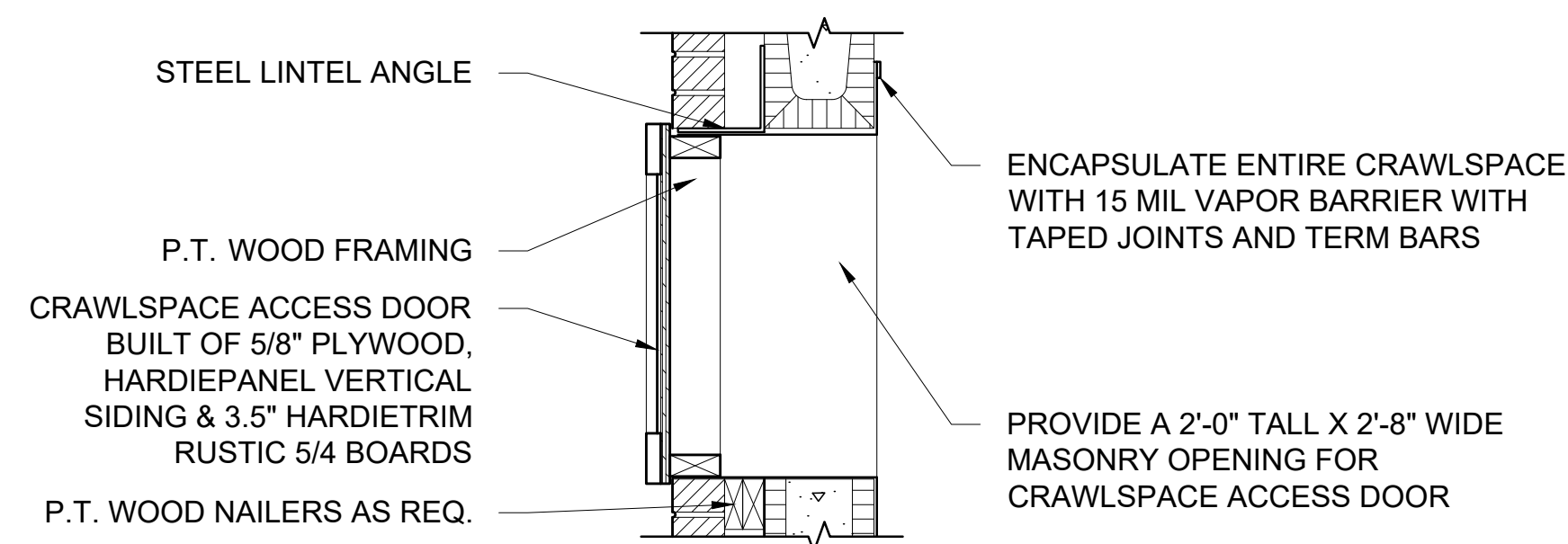
- D.S.1 - INDICATES A NEW DOWNSPOUT AND CAST IRON BOOT LOCATION. SEE CIVIL FOR STORM WATER PIPING. SEE TYPICAL DOWNSPOUT BOOT DETAIL ON SHEET A4.3.
- D.S.2 - INDICATES A NEW DOWNSPOUT AND 1'-0" WIDE X 2'-0" LONG PRECAST SPLASHBLOCK. PROVIDE 3" DEEP BY 2'-0" SQUARE OF PEA GRAVEL AT NEW SPLASHBLOCK DISCHARGE LOCATIONS.
- D.S.3 - INDICATES A NEW DOWNSPOUT AND CAST IRON BOOT LOCATION AS NOTED ON D.S.1. THESE DOWNSPOUTS MUST CONTINUOUSLY PASS THRU THE NEW CANOPY SYSTEM. COORDINATE INSTALLATION TO FACILITATE THIS FUNCTION.

**GUTTERS & DOWNSPOUTS NOTE:**

PREFINISHED METAL GUTTERS TO BE 6" X 6" IN SIZE AND PREFINISHED DOWNSPOUTS TO BE 4" X 6" IN SIZE. PROVIDE STABILIZING STRAPS ON GUTTERS AT EVERY 4'-0" O.C. MAX AND PROVIDE ALL FLASHING, TRIM, CLIPS, ETC. REQUIRED FOR A COMPLETE INSTALLATION.

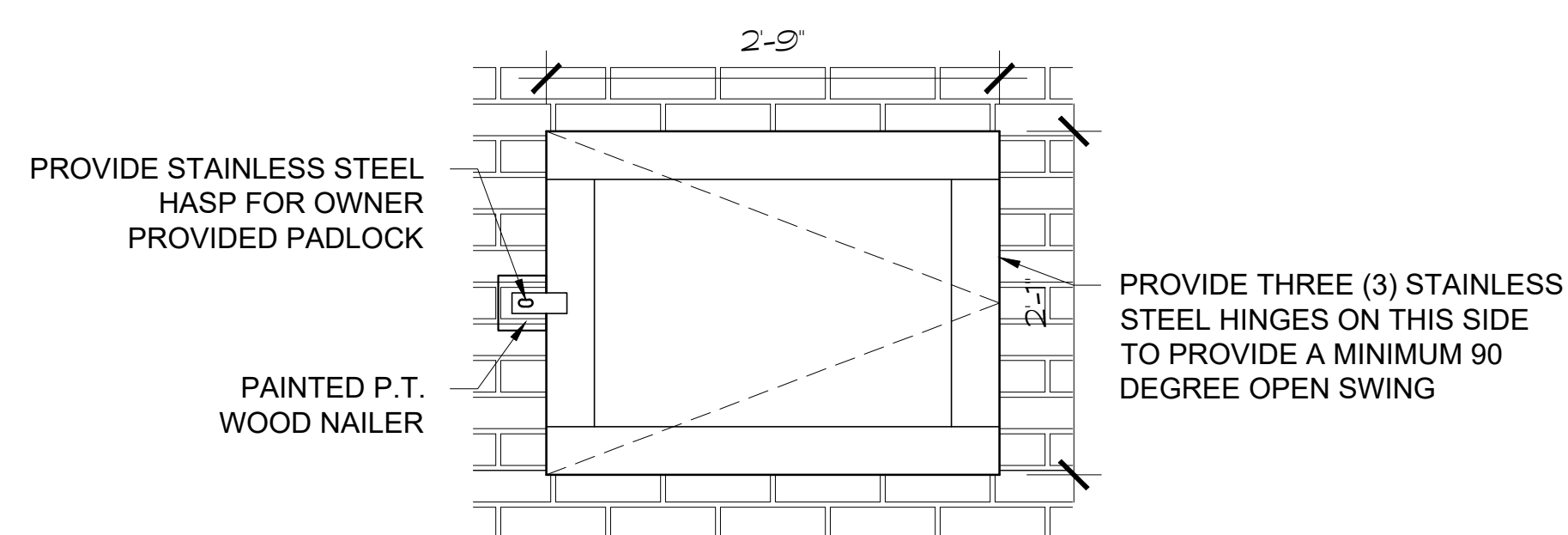
**CRAWLSPACE NOTES:**

1. REMOVE ALL ABANDONED PIPING, CONDUIT, WIRING, EQUIPMENT, DUCTWORK, ETC. NO LONGER IN USE.
2. REPAIR ALL HOLES IN FLOORING TO REMAIN WHERE ITEMS WERE DEMOLISHED TO PROVIDE COMPLETE SEPARATION FROM THE SPACE ABOVE.
3. INFILL ANY ENCOUNTERED ERODED SOILS TO PROVIDE THE MOST CONSISTENT GRADED PLANE POSSIBLE IN THE SPACE.
4. ENCAPSULATE THE ENTIRE CRAWLSPACE WITH 15 MIL VAPOR BARRIER EQUAL TO STEGO INDUSTRIES, WITH TAPED JOINTS WITH MINIMUM 6" OVERLAP AND TERM BARS AT 3" MAX. BELOW CRAWLSPACE MASONRY HEIGHT.
5. R-30 BATT INSULATION SHALL BE PROVIDED BETWEEN ALL FLOOR JOISTS AND SHALL BE SECURED IN PLACE WITH WIRE MESH FABRIC WITH MAX. 1/2" X 1/2" OPENINGS.



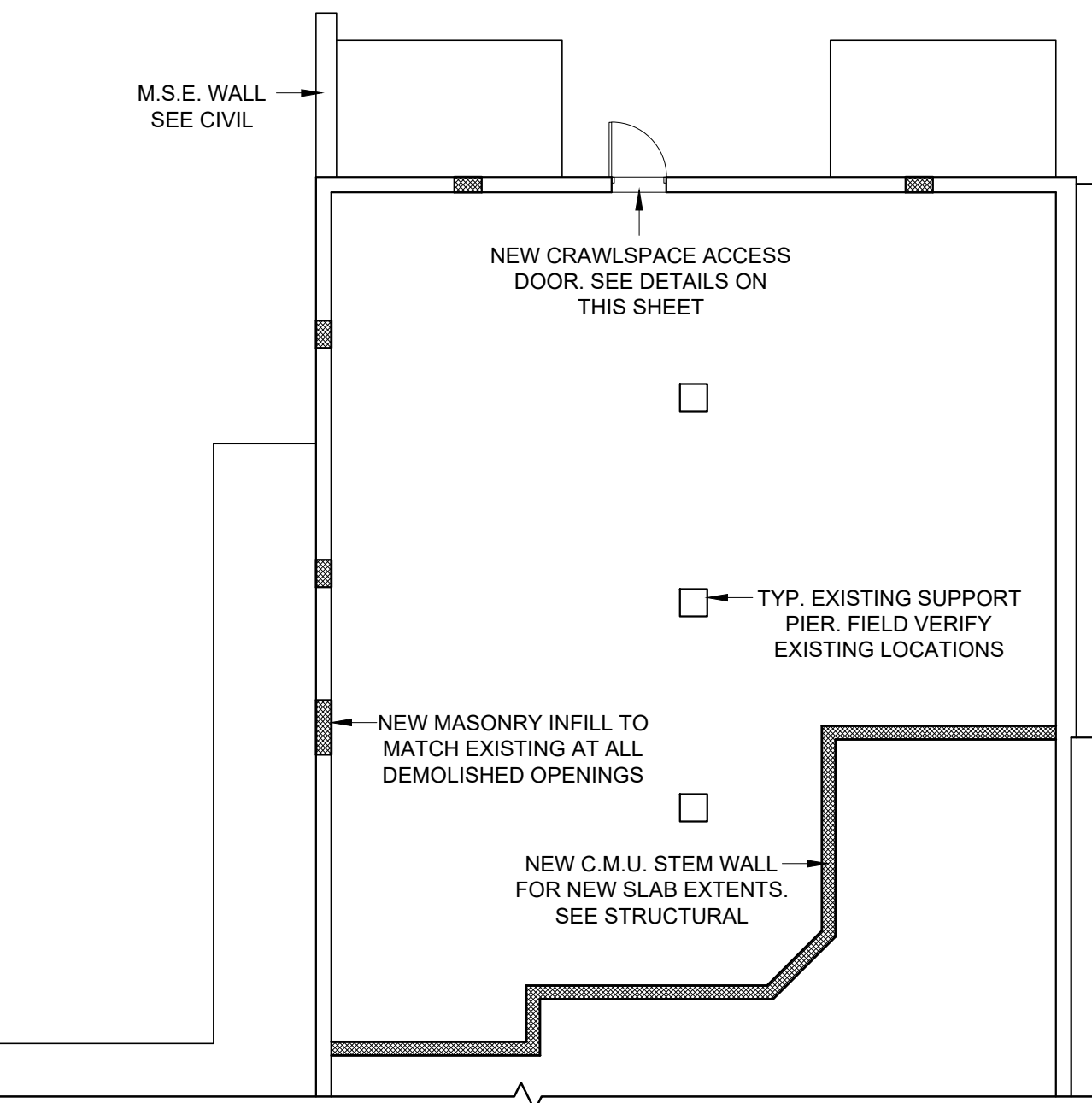
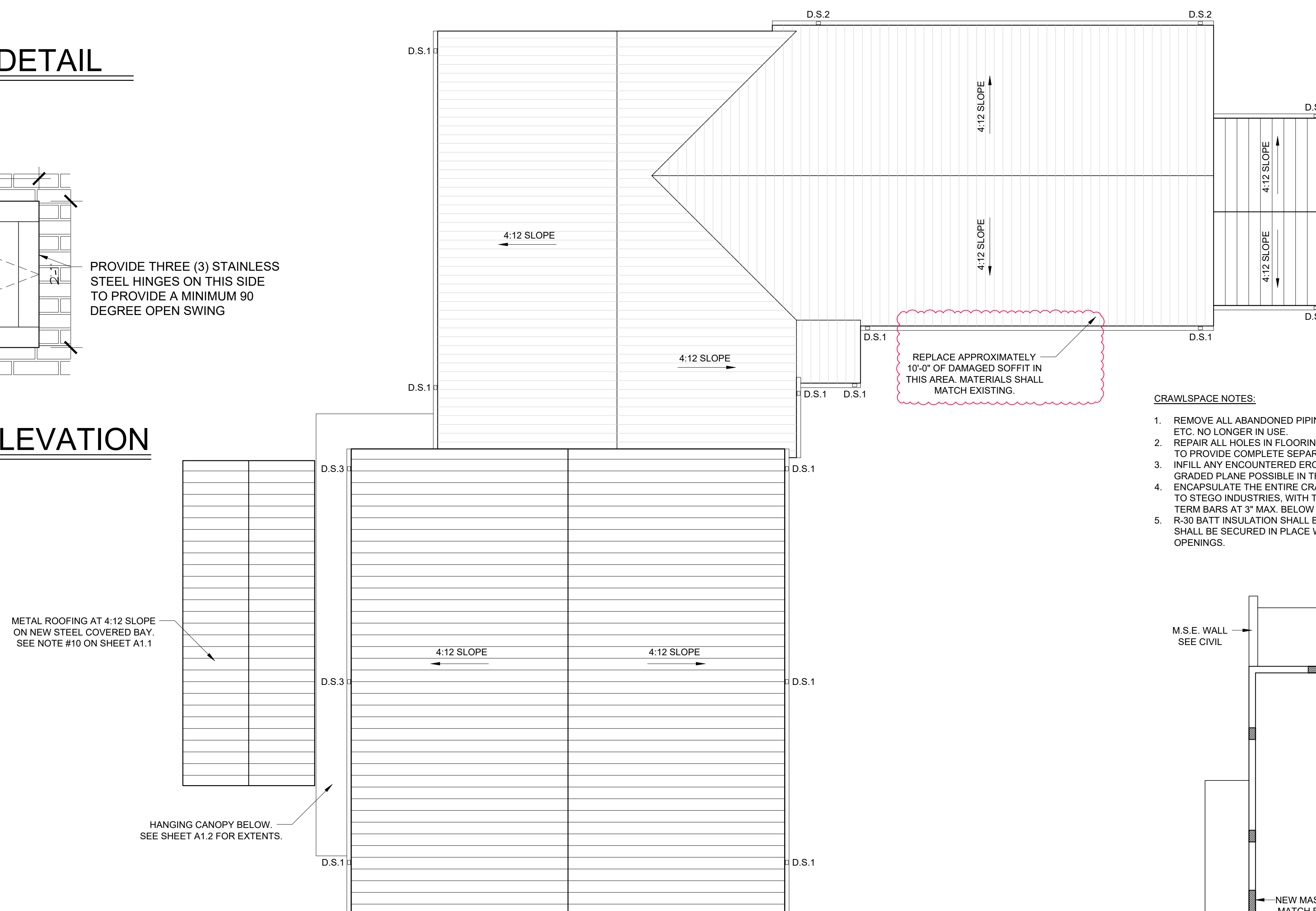
### 3 ACCESS DOOR DETAIL

SCALE: 1" = 1'-0"



### 4 ACCESS DOOR ELEVATION

SCALE: 1" = 1'-0"



### 2 CRAWLSPACE PLAN

SCALE: 1/8" = 1'-0"

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EQUIPMENT & FURNISHINGS LEGEND

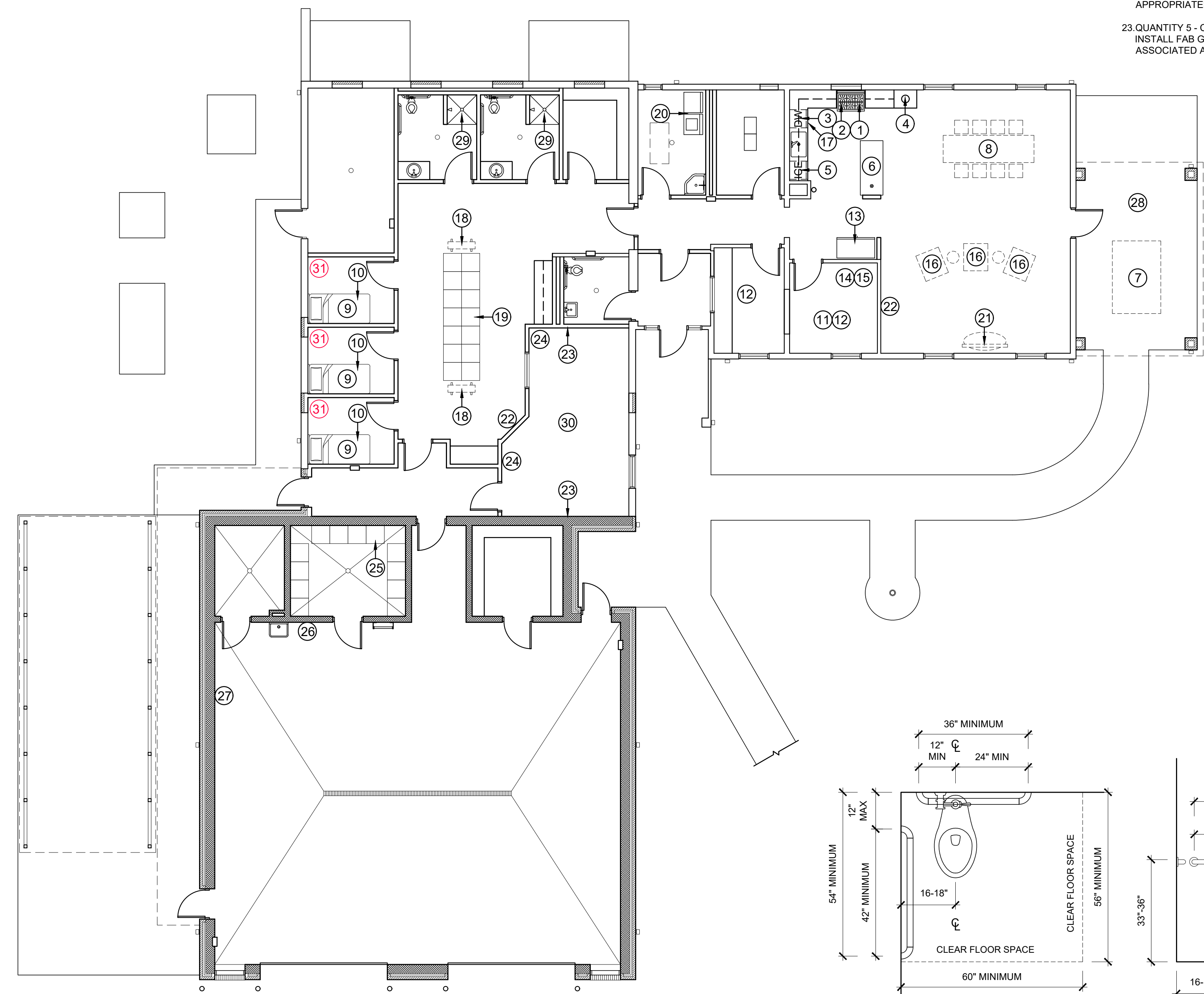
- 1. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL Z LINE, 36" WIDE WALL MOUNTED HOOD, PROFESSIONAL STAINLESS 697, WITH GUARDIAN III KITCHEN FIRE SUPPRESSION SYSTEM MODEL 1384-A. COORDINATE WITH MECHANICAL. ADD #2
- 2. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL KUCHT, 36" DUAL FUEL MODEL #KRD366F RANGE, WITH GAS CONNECTION HOSE KIT/ASSEMBLY BK RESOURCES MODEL # BKG-GHC-7548-SCK2. COORDINATE WITH MECHANICAL, PLUMBING AND ELECTRICAL.
- 3. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL KUCHT, 24" MODEL #K6502D DISHWASHER.
- 4. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL MAGIC CHEF, 1.6 CU. FT., 1,100 WATT MODEL #MM1611ST2 MICROWAVE.
- 5. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL SCOTSMAN, SELF-CONTAINED, NUGGET ICE MACHINE MODEL # UN324 WITH OPTIONAL FLOOR MOUNT KIT AS REQUIRED.
- 6. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL REGENCY 30" X 72" 16 GAUGE STAINLESS STEEL COMMERCIAL WORK TABLE WITH UNDERSHELF & 5" HEAVY DUTY CASTERS.
- 7. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL ANOVA PICNIC TABLE, 8' RECTANGULAR, EXPANDED STEEL, MODEL # F6420.
- 8. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL ALDERWOOD DINING TABLE 120" L X 44" W WITH LOGO GRAPHICS, LACQUER FINISH AND WEBSTER BASE WITH TWO BENCHES 120" L X 12" W TO MATCH BY TABLE TOP DAN, 100 LONDONDERRY CT, SUITE 124, WOODSTOCK GA 30188, PHONE: 678-503-8758.
- 9. QUANTITY 3 - CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF NORIX BEDS, TITAN BUNKABLE FRAME STYLE, XL TWIN BED FRAME, MODEL # TNT1611 IN EBONY COLOR WITH HEAD BOARDS, MODEL # TNT0600-BL1, AND FOOT BOARDS, MODEL # TNT0650-BL1, HEAD AND FOOT BOARDS SHALL HAVE BLACK HARDWARE AND WILD CHERRY LAMINATE COLOR SELECTIONS. EACH BED SHALL HAVE A MATTRESS FIRM, MODEL # V00028596, PRESSURE SMART 2.0 FIRM 11" MATTRESS, TWIN XL PRIME SIZE.
- 10. QUANTITY 9 - CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF NORIX, TITAN UNDER BED STORAGE, COMFORT SHIELD DORM, MODEL # TNT7016 (METAL).
- 11. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF HON 30" X 66" DESK (WITH 24" X 48" LEFT HAND RETURN), MODEL # HONH38291RNS, AND HONH38216LNS IN CHARCOAL COLOR SELECTION.
- 12. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF HON TASK CHAIR, MODEL # HONH5715.SB11.T.
- 13. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL KUCHT, 36" WIDE MODEL #K748FDS REFRIGERATOR WITH ICE MAKER.
- 14. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF 36" ROUND CONFERENCE TABLE, MODEL # XT36RD.
- 15. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND INSTALL INDOFF SLED BASE GUEST CHAIR WITH BLACK FRAME, MODEL # 540BLK.
- 16. QUANTITY 3 - CONTRACTOR SHALL PURCHASE AND INSTALL WOODSTOCK OUTLET, HOME STRETCH, MODEL #186-91-14 ROCKER RECLINERS.
- 17. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL BUNN, MODEL #VP17-2 COFFEE MAKER.
- 18. QUANTITY 14 - CONTRACTOR SHALL PURCHASE AND INSTALL Penco PATRIOT FULLY FRAME WELDED LOCKERS, 24"X24"X72", 16GA. BODIES WITH 18GA. BACKS, 14 GA DOUBLE DOORS WITH STANDARD LOUVERS AND HEAVY DUTY, LATCHING, LOCKABLE CREWMORE HANDLE, PROVIDE 16GA. BOXED FINISHED END PANELS AT EXPOSED ENDS AND CONTINUOUS SLOPING HOODS FOR ALL INTERIOR COMPONENTS SHALL INCLUDE HAT SHELF, OFF CENTER PARTITION (45"), 15" COAT ROD AND COAT HOOKS, 9" WIDE SECURITY BOX UNDER HAT SHELF, ONE ADDITIONAL 9" SHELF, FULL WIDTH BOTTOM SHELF AND FULL WIDTH INTERIOR DRAWER BELOW. PROVIDE LOCKERS WITH THE FOLLOWING ACCESSORIES: CELL PHONE/KEY TRAY, MIRROR AND NAME CARD HOLDERS. OWNER SHALL MAKE COLOR SELECTIONS FROM MANUFACTURER'S FULL RANGE. INSTALL LOCKERS ON WOOD FRAMED BASE OF 2X4'S AT EVERY 16" O.C. MAX WITH 5/8" PLYWOOD TOP. FRAMING SHALL BE INSET FROM TOTAL LOCKER DIMENSIONS 3/4" ON ALL SIDES.
- 19. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND INSTALL Penco WOOD BENCH WITH STAINLESS STEEL PEDESTALS, 36" WOOD TOP MODEL # 9611, STAINLESS STEEL PEDESTALS AND HARDWARE MODEL # 60827H WITH NON-SKID KIT MODEL # 68420.
- 20. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL SPEED QUEEN, MODEL #TCS TOP LOAD WASHER WITH SPEED QUEEN CLASSIC CLEAN AND MODEL #DC5 SANITIZING ELECTRIC DRYER WITH EXTENDED TUMBLE.
- 21. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL SAMSUNG, 75" CLASS TU690T TELEVISION AND APPROPRIATELY SIZED WALL MOUNT.
- 22. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND INSTALL SAMSUNG, 73" CLASS CU7000 TELEVISION AND APPROPRIATELY SIZED WALL MOUNT.
- 23. QUANTITY 5 - CONTRACTOR SHALL PURCHASE AND INSTALL FAB GLASS, 48" X 84", MIRROR PANELS AND ALL ASSOCIATED ACCESSORIES AND HARDWARE REQUIRED.
- 24. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND INSTALL GLOBAL INDUSTRIAL, 24" OSCILLATING WALL MOUNT FAN, 3 SPEED, 7525 CFM, 1/4 HP, ITEM # WB607650.
- 25. QUANTITY 12 - CONTRACTOR SHALL PURCHASE AND INSTALL GROVES INC. READY RACK, WALL MOUNTED RED RACK GEAR LOCKERS, 24"W X 20"D X 72"H PER COMPARTMENT. ALL UNITS SHALL BE COMPLETE WITH STANDARD OPTIONS INCLUDING: ADJUSTABLE BOOT SHELF, ADJUSTABLE HELMET SHELF, HANGING POLE THE LENGTH OF THE UNIT, TWO APPEAL HOOKS PER LOCKER AND ONE NAME PLATE PER LOCKER.
- 26. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL READY RACK, WALL RACK ORGANIZER MODEL # WR0, FIELD LOCATE MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION.
- 27. QUANTITY 1 - CONTRACTOR SHALL PURCHASE AND INSTALL SEVILLE, CLASSICS ULTRA GRAPHITE WOOD TOP WORKBENCH ON WHEELS WITH SLIDING ORGANIZER DRAWER TABLE, 48" LONG, SATIN GRAPHITE COLOR SELECTION.
- 28. QUANTITY 3 - CONTRACTOR SHALL PURCHASE AND INSTALL FURNITURE MADE IN THE USA, PLANTATION LUMBAR ROCKER TC-9970, GERANIUM RED, ROCKING CHAIRS.
- 29. QUANTITY 2 - CONTRACTOR SHALL PURCHASE AND INSTALL ACORN ENGINEERING PRODUCTS, 36" X 36" ID TERRAZZO ADA SHOWER BASE, MODEL # SBADA-36-3F.
- 30. CONTRACTOR SHALL PURCHASE AND INSTALL EXERCISE EQUIPMENT FROM PREMIER FITNESS SOURCE AT 109 SMOCKHILL LANE, SUITE 100, WOODSTOCK GA 30188, PHONE: 770-908-0000. IN THE QUANTITIES AND DESCRIPTIONS NOTED IN THE TABLE ON THIS SHEET. CONFIRM LAYOUT OF EQUIPMENT WITH OWNER PRIOR TO INSTALLATION. ADD #2
- 31. QUANTITY 3 - CONTRACTOR SHALL PURCHASE AND INSTALL NORIX, TITAN, THREE DRAWER NIGHTSTAND MODEL # TNT2039.

- EQUIPMENT NOTES:
- 1. COORDINATE ALL FINAL EQUIPMENT LOCATIONS WITH OWNER.
  - 2. FIELD VERIFY ALL EQUIPMENT QUANTITIES.
  - 3. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED ITEMS.

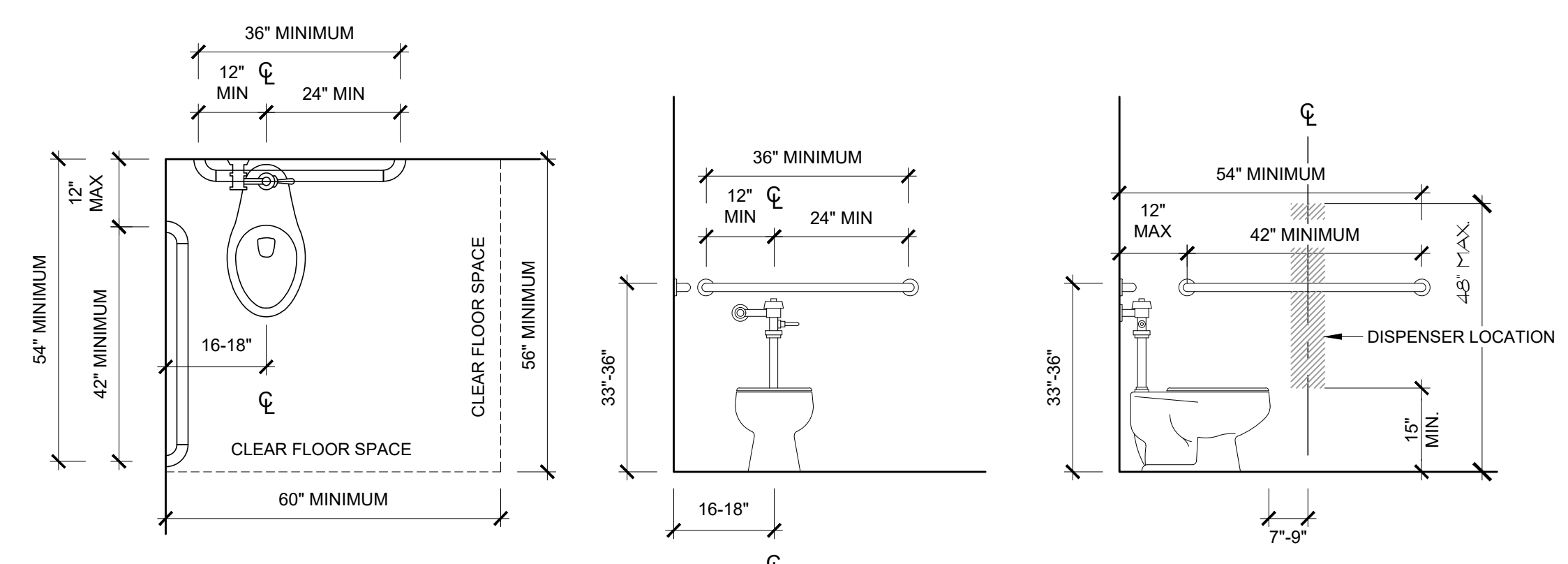
SCHEDULE of TOILET ACCESSORIES

ITEM	MFR.	HEIGHT	LOCATION
A 42" GRAB BARS AT SIDE WALL OF WATER CLOSETS	BOBRICK B-5806-42	33" to CENTERLINE ABOVE FINISH FLOOR	PROVIDE ONE AT EVERY H.C. TOILET
B 36" GRAB BARS AT REAR WALL OF WATER CLOSETS	BOBRICK B-5806-36	33" to CENTERLINE ABOVE FINISH FLOOR	PROVIDE ONE AT EVERY H.C. TOILET
C TISSUE PAPER DISPENSER	GP 56748 & BOBR. B-265	VARIES - COORDINATE WITH OWNER AND VERIFY WITH MANUFACTURER'S REQUIREMENTS	PROVIDE GP 56748 AT ROOM 103
D SEAT COVER DISPENSER	BOBRICK B-221	INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT EVERY TOILET
E BABY CHANGING STATION	BOBRICK B-2200	INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT ROOM 101, 201, 202, 203 & 204
F MIRROR	BOBRICK B-221	40" to BOTTOM of MIRROR ABOVE FLOOR	PROVIDE ONE ABOVE EVERY LAVATORY
G SOAP DISPENSER	GA. PACIFIC 52060	40" to BOTTOM of DISPENSER ABOVE FINISH FLOOR (VERIFY WITH MANUFACTURER'S REQUIREMENTS)	PROVIDE ONE AT EVERY SINK
H ROBE HOOK	BOBRICK B-6707	48" to TOP MAX. ABOVE FINISH FLOOR	PROVIDE ONE AT EVERY TOILET AND EVERY SHOWER
I UTILITY SHELF w/ MOP HOLDERS	BOBRICK B-239 x 34	INSTALL PER MANUFACTURER'S DETAILS	PROVIDE ONE AT EVERY MOP BASIN
J PAPER TOWEL DISPENSER	GA. PACIFIC 59466A	60" to TOP of DISPENSER ABOVE FINISH FLOOR (VERIFY WITH MANUFACTURER'S REQUIREMENTS)	PROVIDE ONE AT EVERY SINK
K REVERSIBLE FOLDING SHOWER SEAT	BOBRICK B-5181	18" ABOVE FINISH FLOOR to TOP OF SEAT	PROVIDE ONE AT ROOM 105
L TWO WALL SHOWER GRAB BAR	BOBRICK B-6861	33" to CENTERLINE ABOVE FINISH FLOOR	PROVIDE BLOCKING ONLY AT ALL OTHER SHOWERS
M EXTRA HEAVY DUTY SHOWER CURTAIN ROD	BOBRICK B-6047	PROVIDE WITH BOBRICK 204 CURTAIN & HOOKS	PROVIDE ONE AT ROOM 105
N FOLDING DRESSING AREA SEAT	BOBRICK B-5193	18" ABOVE FINISH FLOOR to TOP OF SEAT	PROVIDE BLOCKING ONLY AT ALL OTHER SHOWERS

- TOILET ACCESSORIES NOTES:
- 1. COORDINATE ALL FINAL MOUNTING HEIGHTS/LOCATIONS WITH OWNER. COMPLY WITH ALL REQUIREMENTS OF A.D.A. INSTALLATIONS GUIDELINES AND MANUFACTURER'S RECOMMENDATIONS.
  - 2. FIELD VERIFY ALL FIXTURE QUANTITIES.
  - 3. PROVIDE BLOCKING IN WALL FOR ALL WALL MOUNTED ITEMS.

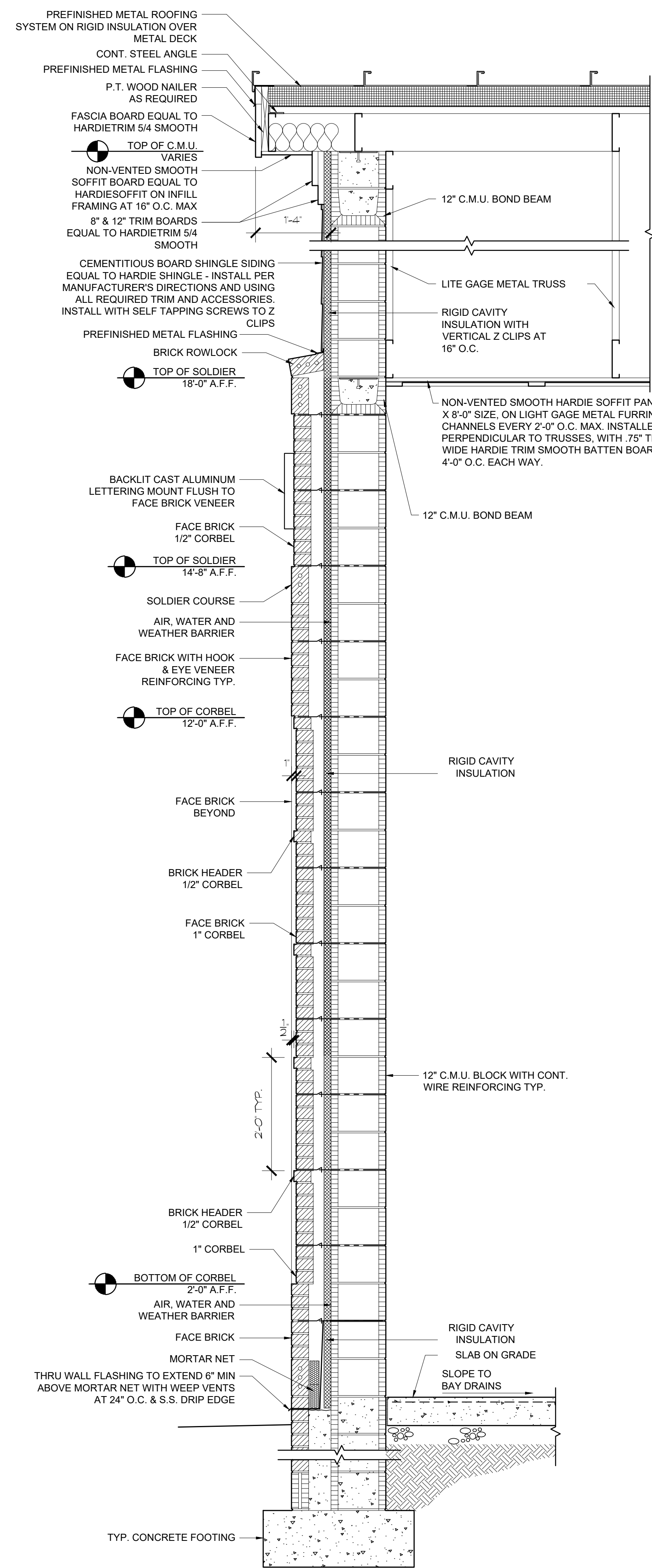


QUANTITY	MODEL #	DESCRIPTION
1	XF PR-HLP	XERT FITNESS PR-HLP POWER RACK WITH PLATE LOADED HI-LOW PULLEY, LEG HOLD DOWN, LAT BAR AND CURL BAR & (8) WEIGHT HORNS
1	BS TBR50	BODY SOLID T-BAR ROW/LANDMINE BASE, DUAL SWIVEL, ROPE ANCHOR
1	XF R-PT2	XERT FITNESS R-PT2 OLYMPIC/BUMPER PLATE RACK WITH 2" BAR HOLDERS
1	XF FID-400	XERT FITNESS FID-400 FLAT INCLINE DECLINE BENCH WITH 7 POSITIONS. OPTIONAL LEG EXTENSION/CURL & PREACHER CURL AVAILABLE
1	YOLEO	YOLEO ADJUSTABLE DIP BAR - 1100LBS DIP STATION, PORTABLE FUNCTIONAL FITNESS BAR WITH SAFETY CONNECTOR
1	XF RXB-030	XERT FITNESS 30LB RUBBER KETTLEBELL WITH CHROME HANDLE
1	XF RXB-035	XERT FITNESS 35LB RUBBER KETTLEBELL WITH CHROME HANDLE
1	XF RXB-040	XERT FITNESS 40LB RUBBER KETTLEBELL WITH CHROME HANDLE
1	XF RXB-045	XERT FITNESS 45LB RUBBER KETTLEBELL WITH CHROME HANDLE
1	XF RXB-050	XERT FITNESS 50LB RUBBER KETTLEBELL WITH CHROME HANDLE
4	XF OPR-010	XERT FITNESS 10LB OLYMPIC RUBBER PLATE
2	XF OPR-025	XERT FITNESS 25LB OLYMPIC RUBBER PLATE
2	XF OPR-035	XERT FITNESS 35LB OLYMPIC RUBBER PLATE
4	XF OPR-045	XERT FITNESS 45LB OLYMPIC RUBBER PLATE
1	XF HX-60	XERT FITNESS 80" HEX TRAP BAR WITH 25MM GRIP
1	XF OCB-47C	XERT FITNESS 47" OLYMPIC CHROME CURL BAR WITH 28MM GRIP
2	P 400-710-110	PRISM FITNESS STRENGTH BAND XX-LIGHT (RED) 5-35LB
2	P 400-710-111	PRISM FITNESS STRENGTH BAND X-LIGHT (BLACK) 10-50LB
2	P 400-710-112	PRISM FITNESS STRENGTH BAND LIGHT (PURPLE) 25-80LB
2	P 400-710-113	PRISM FITNESS STRENGTH BAND MEDIUM (GREEN) 50-120LB
2	P 400-710-114	PRISM FITNESS STRENGTH BAND HEAVY (BLUE) 60-150LB
2	P 400-710-115	PRISM FITNESS STRENGTH BAND X-HEAVY (ORANGE) 70-175LB
2	XF AOB-1000	XERT FITNESS 7" BLACK OXIDE OLYMPIC BAR (ALLOY STEEL) WITH 1000LB CAPACITY & 28MM GRIP, 4 NEEDLE BEARINGS (2 EACH SIDE) + BRONZE BUSHINGS
1	XF R-HDB3	XERT FITNESS R-HDB3 HORIZONTAL DUMBBELL RACK WITH 3 TIERS
1	XF RHD-550	XERT FITNESS 5-50LB RUBBER HEX DUMBBELL SET (5LB INCREMENTS)
1	XF AIRBIKE	XERT FITNESS AIRBIKE WITH 16 FAN BLADES, INTEGRATED WIND GUARD, AND LCD DISPLAY
1	TKO AR ROWER	TKO AIRRAID ROWER

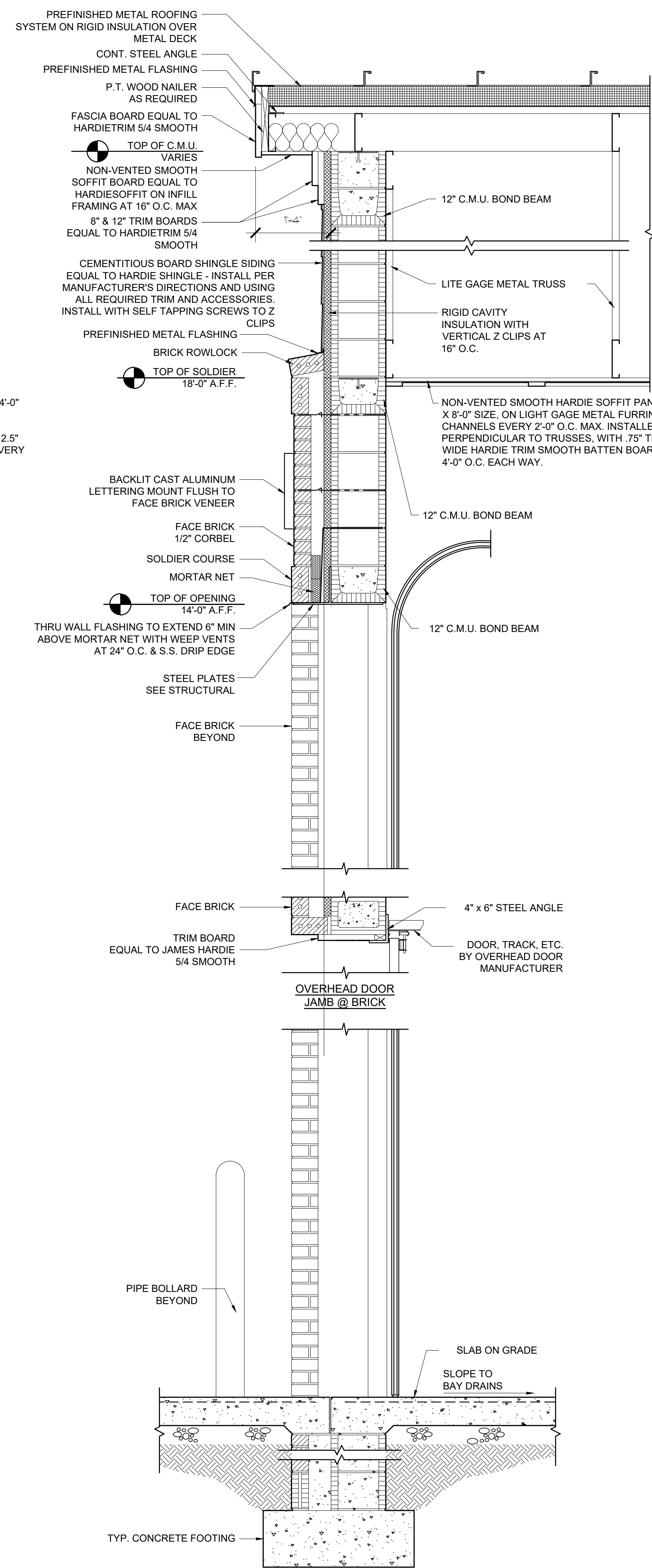


2 A.D.A. INSTALLATION GUIDELINES

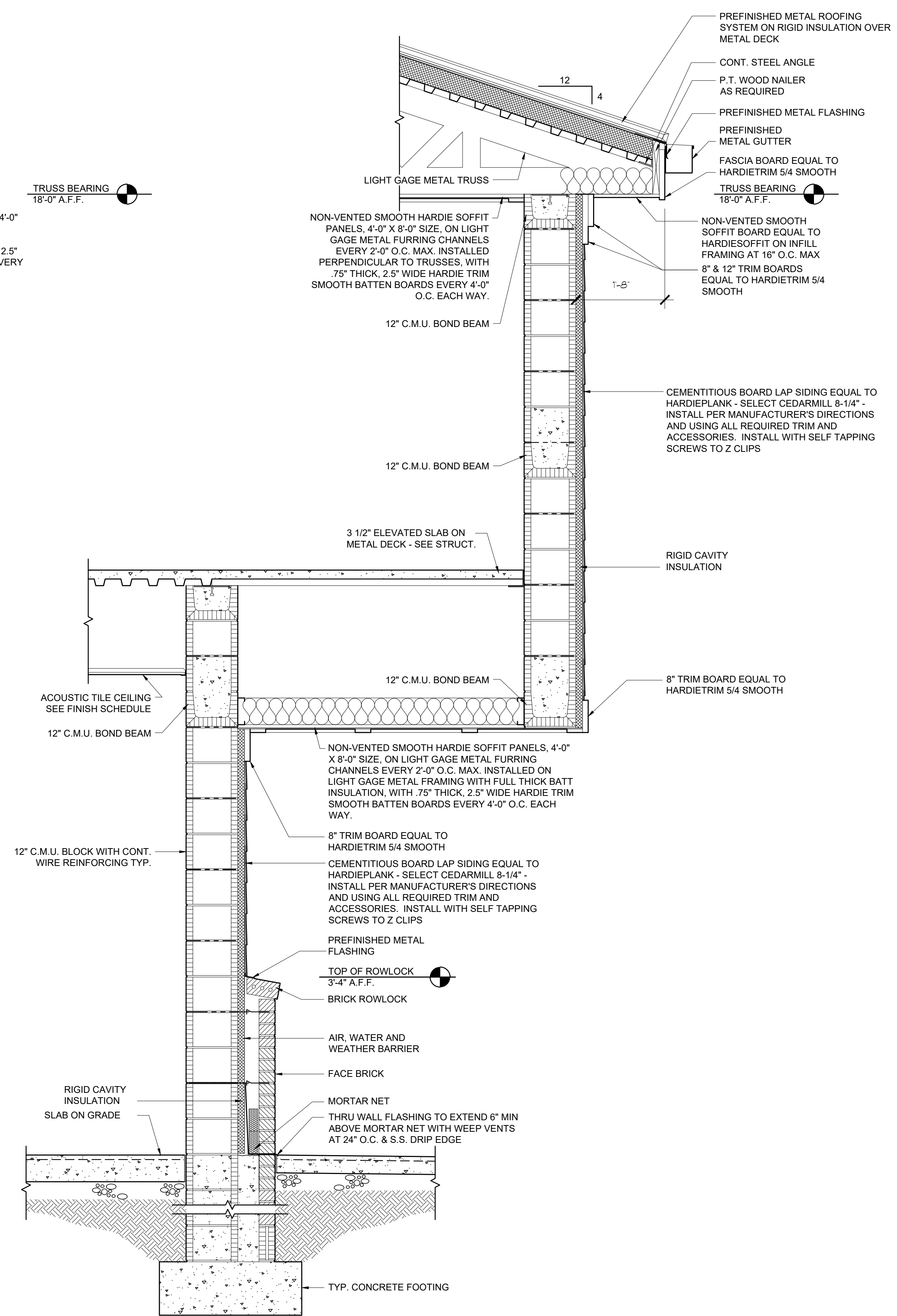
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**1** WALL SECTION  
SCALE: 3/4" = 1'-0"



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



**3** WALL SECTION  
SCALE: 3/4" = 1'-0"

FOR CONSTRUCTION

REVISIONS

NO.	DATE
ADDENDUM #2	03/21/24
ADDENDUM #4	04/12/24

FACILITY CODE  
000-0000



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
CHEROKEE COUNTY BOARD OF COMMISSIONERS



SHEET INDEX  
DOOR & WINDOW  
FRAME  
ELEVATIONS,  
SCHEDULE &  
DETAILS

SHEET INDEX

A5.1

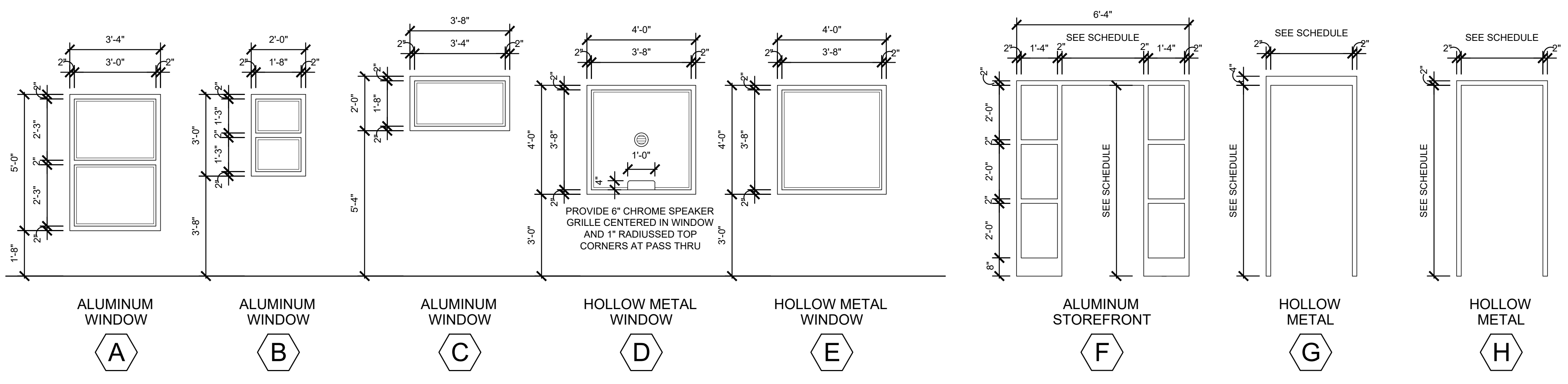
MARK	SCHEDULE of DOORS and FRAMES												MARK
	DOORS		FRAMES			MISC.		REMARKS	MARK				
	TYPE	SIZE	TYPE	DETAILS	FIRE RATING	HW. SET NO.							
WIDTH	HGT.	HEAD	JAMB	SILL									
100	1	3'-0" 7'-0"	F	H3	J3	-	AL-01	CARD ACCESS	100				
101	3	3'-0" 7'-0"	H	H1	J1	-	01		101				
102	2	3'-0" 7'-0"	H	H1	J1	-	16	SEE NOTE 3 BELOW	102				
103	2	3'-0" 7'-0"	H	H1	J1	-	02		103				
104	3	3'-0" 7'-0"	H	H1	J1	-	02		104				
105	3	3'-0" 7'-0"	H	H1	J1	-	04	CARD ACCESS	105				
106	2	3'-0" 7'-0"	H	H1	J1	-	05		106				
107	2	3'-0" 7'-0"	H	H1	J1	-	05		107				
108	4	3'-0" 7'-0"	H	H3 SIM.	J3 SIM.	-	06	CARD ACCESS	108				
109	3	3'-0" 7'-0"	H	H1	J1	-	07		109				
110	3	3'-0" 7'-0"	H	H1	J1	-	01		110				
111	3	3'-0" 7'-0"	H	H1	J1	-	01		111				
112	5	3'-0" 7'-0"	EX.	H5 SIM.	J5 SIM.	-	08	NEW DOOR IN EXISTING FRAME	112				
113	3	3'-0" 7'-0"	H	H1	J1	-	09		113				
114	4	3'-0" 7'-0"	H	H1	J1	-	09		114				
115	3	3'-0" 7'-0"	H	H1	J1	-	09		115				
116	2	3'-0" 7'-0"	H	H1	J1	-	02		116				
117	2	3'-0" 7'-0"	H	H1	J1	-	10		117				
118	6	3'-0" 7'-0"	G	H2	J2	-	90 MIN	11	118				
119	4	3'-0" 7'-0"	G	H5	J5	-	12		119				
120	5	3'-0" 7'-0"	G	H2	J2	-	13		120				
121	4	3'-0" 7'-0"	G	H2	J2	-	14		121				
122	5	3'-0" 7'-0"	G	H2	J2	-	15	CARD ACCESS	122				
123	4	3'-0" 7'-0"	G	H4	J4	-	06	CARD ACCESS	123				
124	4	3'-0" 7'-0"	G	H4	J4	-	12		124				
125	5	3'-6" 6'-8"	H	H1 SIM.	J1 SIM.	-	07		125				

GENERAL DOOR SCHEDULE NOTES:

NOTE 1: EXISTING FRAMES TO REMAIN SHALL BE INSPECTED FOR PROPER FUNCTION AND FINISH. CLEAN FRAMES TO REMAIN AND REPAIR AS NECESSARY. REFINISH AND REPAINT FRAMES TO LIKE NEW CONDITION.

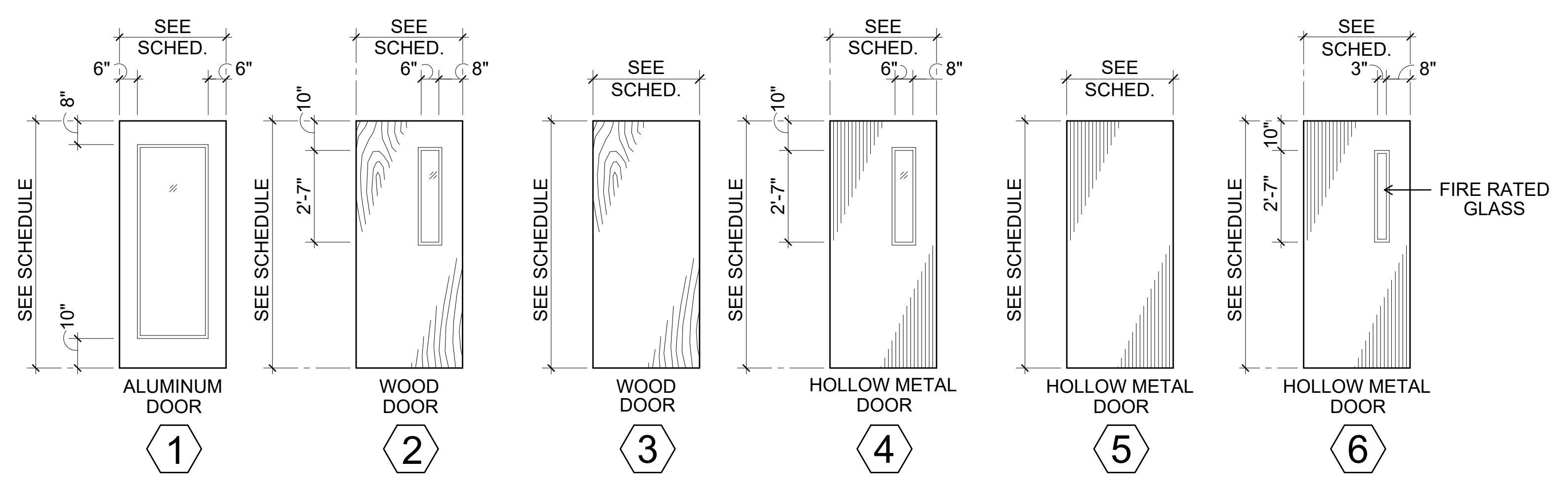
NOTE 2: PROVIDE CONSTRUCTION CORES AT ALL DOORS. OWNER WILL PROVIDE FINAL CORES AFTER PROJECT COMPLETION.

NOTE 3: PROVIDE SCH 6300 FSE ELECTRIC STRIKE, VON PS902 2RS POWER SUPPLY, AND SCE 660PB REMOTE DESK BUTTON FOR THIS DOOR. DEPRESSION OF BUTTON TEMPORARILY RELEASES STRIKE FOR ENTRY. FREE EGRESS AT ALL TIMES. FAIL SECURE.



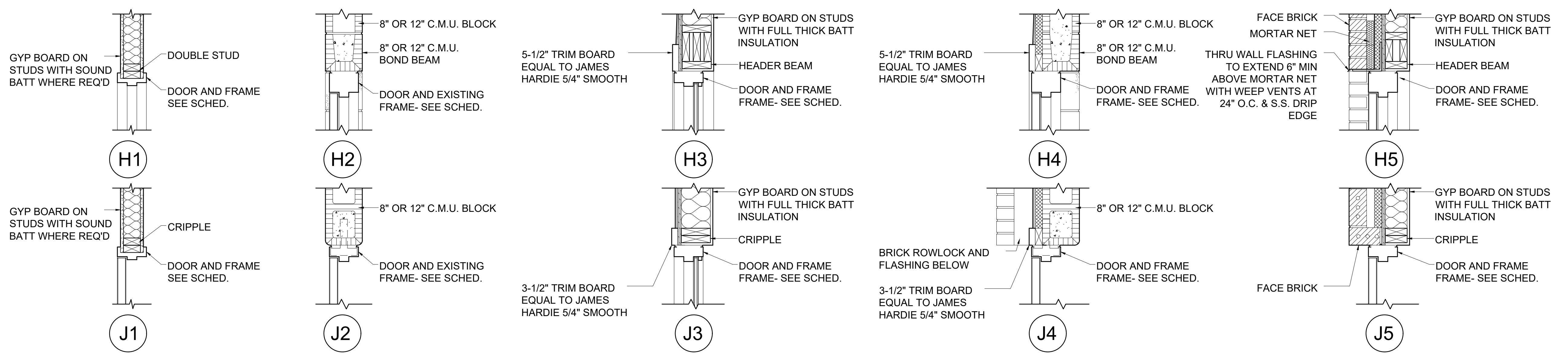
**1 WINDOW AND DOOR FRAME ELEVATIONS**

SCALE: 3/8" = 1'-0"



**2 DOOR TYPE ELEVATIONS**

SCALE: 3/8" = 1'-0"



**3 HEAD, JAMB, SILL DETAILS**

SCALE: 1" = 1'-0"

FOR CONSTRUCTION

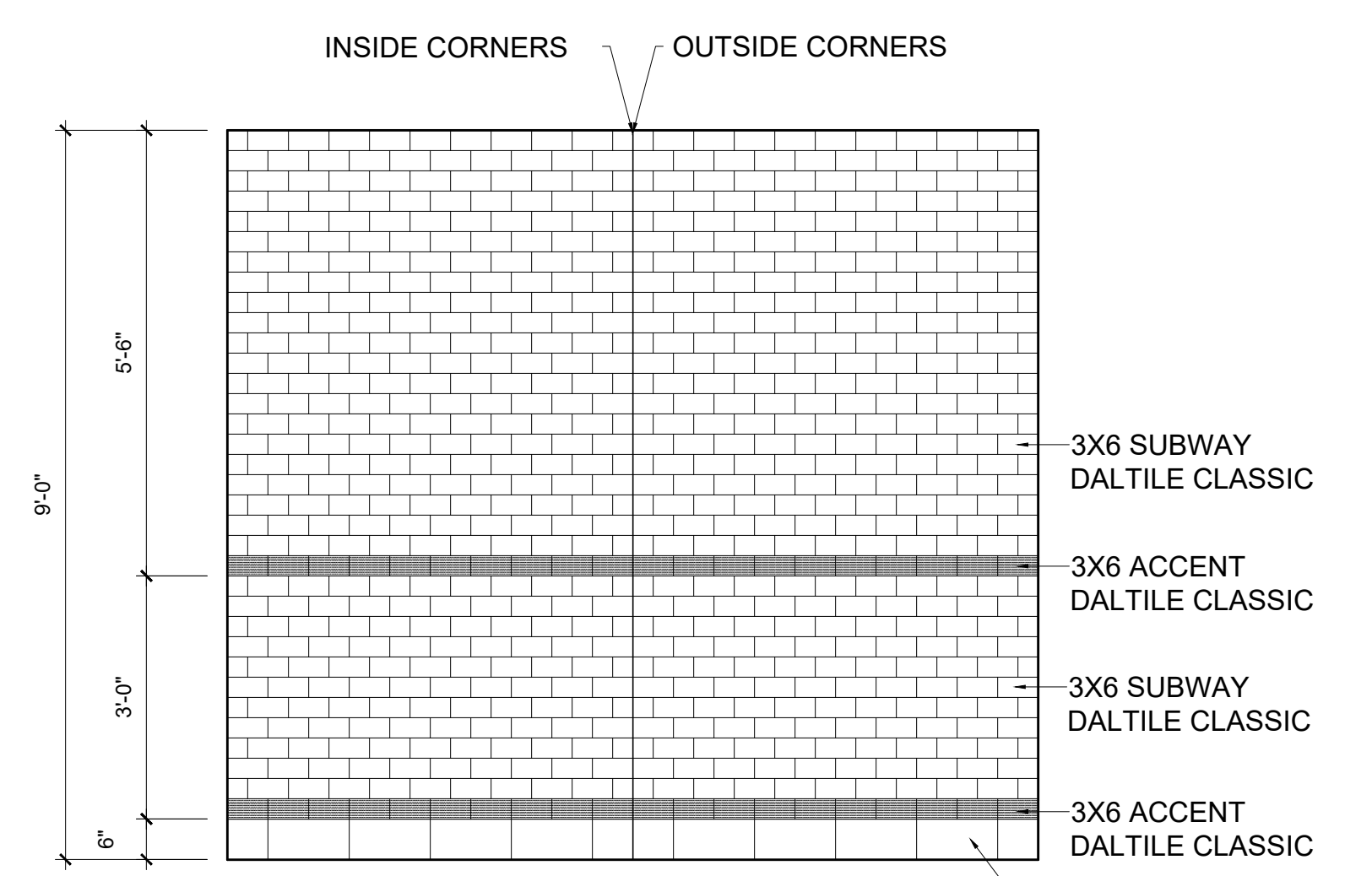
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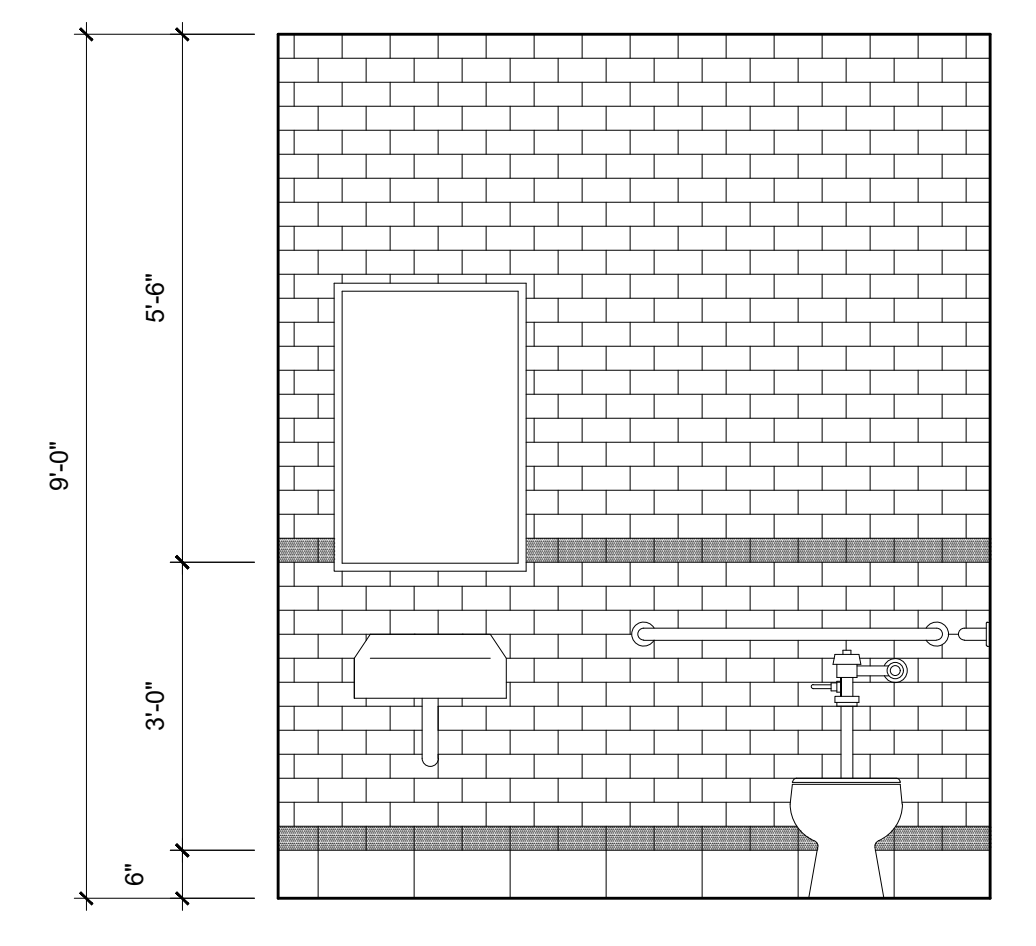
SCHEDULE OF FINISHES									
ROOM NAME	NO.	FLOOR	BASE	WALLS	CEILING	CLG. HT.	REMARKS		
VESTIBULE	100	X							NOTE 1
OFFICE	101	X							NOTES 1&5
OFFICE	102	X							NOTES 1&5
TOILET	103	X							NOTES 4&5
CORRIDOR	104	X							NOTE 1
LAUNDRY	105	X							NOTES 2&4
DATA	106	X							NOTE 3
KITCHEN/DINING	107	X							NOTE 1
DAYROOM	108	X							NOTE 1
LOCKERS	109	X							NOTE 1
LINEN	110	X							
BATH	111		X						NOTES 4&5
BATH	112		X						NOTES 4&5
MECHANICAL	113	X							
SLEEPING BUNK	114	X							NOTE 5
SLEEPING BUNK	115	X							NOTE 5
SLEEPING BUNK	116	X							NOTE 5
EXERCISE ROOM	117		X						
CORRIDOR	118	X							NOTE 1
APPARATUS BAYS	119	X							
EMS STORAGE	120	X							
GEAR ROOM	121	X							
BAY STORAGE	122	X							
MECH. PLATFORM	123		X						X
COVERED PATIO	124		X						X
MECHANICAL	125		X						X

NOTE 1: PROVIDE CHAIR RAIL AT 36" A.F.F. WITH TWO WALL PAINT COLORS, ONE ABOVE AND ONE BELOW RAIL. CHAIR RAIL PROFILE SHALL BE EQUAL TO RB-472 BY RANDALL BROTHERS.  
 NOTE 2: PROVIDE 4'-0" TALL BY 4'-0" WIDE STAINLESS STEEL PANELS AND ASSOCIATED TRIM AT WALLS AT MOP SINKS.  
 NOTE 3: PROVIDE 8'-0" TALL GRAY INTUMESCENT PAINTED PLYWOOD MOUNTED 1'-0" A.F.F. THE ENTIRE PERIMETER OF THREE WALLS OF THE DATA ROOM. THE WALL CONTAINING THE DOOR WILL NOT REQUIRE THIS PLYWOOD.  
 NOTE 4: PROVIDE MOISTURE RESISTANT GYP OR A.C.T. AND GRID IN THIS SPACE.  
 NOTE 5: PROVIDE FULL THICK SOUND BATT INSULATION IN EVERY INTERIOR WALL OF THIS SPACE.  
 GENERAL FINISH NOTES:  
 G.F.N.#1: PROVIDE A TERMINATION EDGE AT DOORS/OPENINGS TO ALLOW FOR A SMOOTH TRANSFER TO ADJACENT FLOOR SURFACE. TYPICAL AT ALL CHANGES IN FLOOR FINISH. SEE DETAIL "T1" ON THIS SHEET.  
 G.F.N.#2: PREP ALL FLOORING PRODUCTS PER MANUFACTURERS INSTRUCTIONS PRIOR TO APPLICATION TO INSURE PROPER INSTALLATION.  
 G.F.N.#3: ALL NEW CONSTRUCTION SHALL RECEIVE NEW PAINT. ANY EXISTING CONSTRUCTION DAMAGED OR DISTURBED DURING THE COURSE OF CONSTRUCTION SHALL BE REPAIRED AND REPAINTED TO MATCH SURROUNDING CONSTRUCTION.  
 G.F.N.#4: ALL EXTERIOR SURFACES (EXCEPT BRICK) SHALL RECEIVE TWO COATS MINIMUM OF NEW FINISH PAINT AND PRIMER. SEE SPECIFICATIONS.

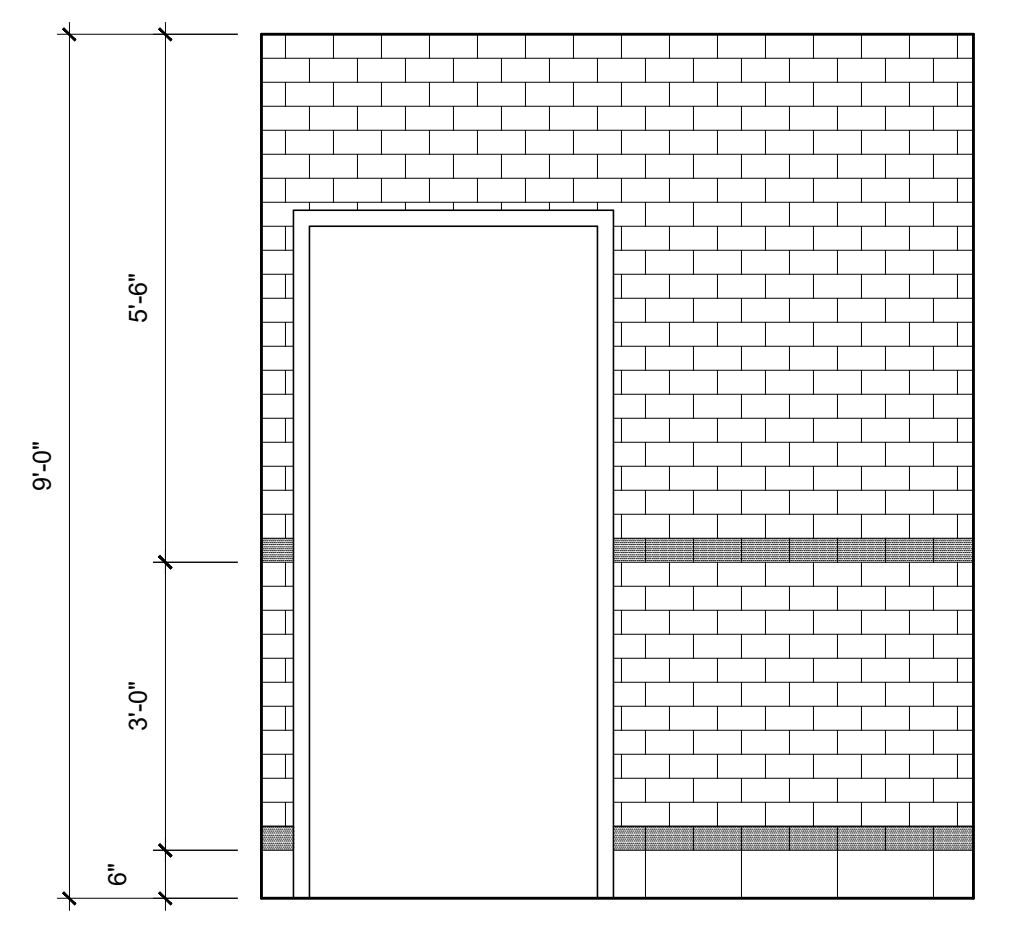
ALTERNATE NO. 1 - PROVIDE RESINOUS EPOXY FLOORING PER SECTION 09705 IN THE SPACES INDICATED IN LIEU OF THE PERMA CRETE PRODUCT PER SECTION 09900.



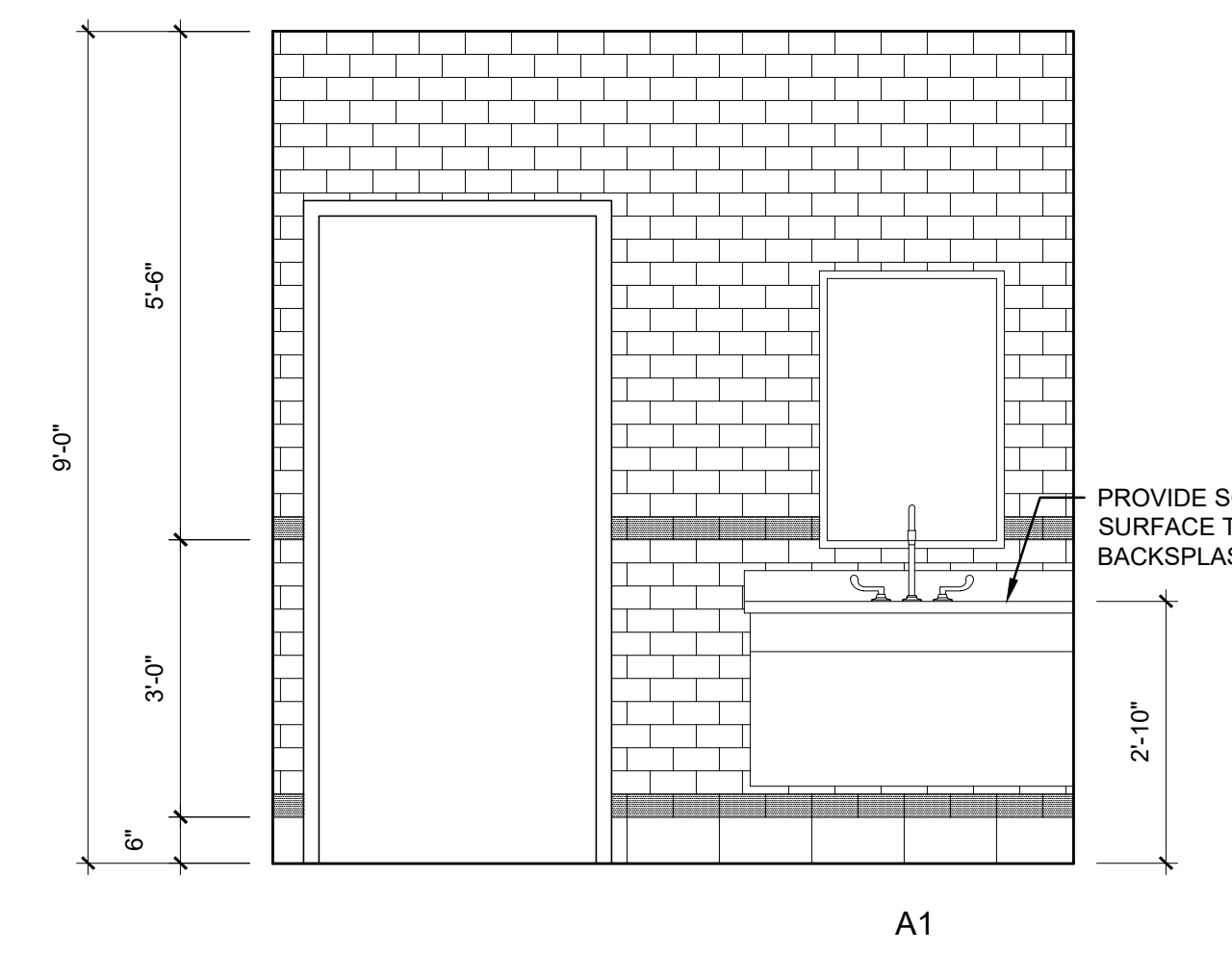
**1 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"  
NOTE: TILE TYPES INDICATED IN THIS ELEVATION ARE TYPICAL OF ALL ELEVATIONS 2-5/A5.2



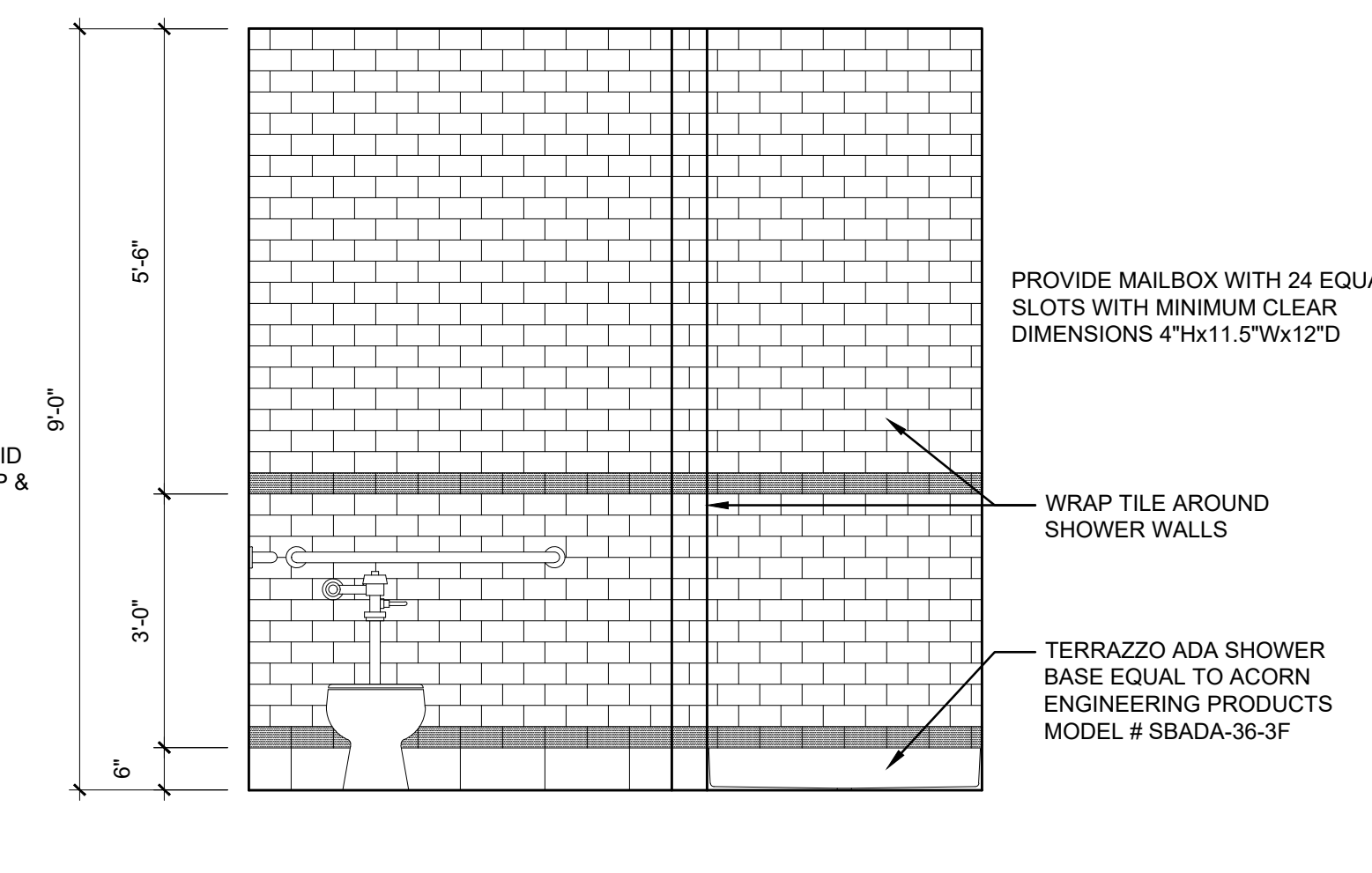
**2 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOM 103



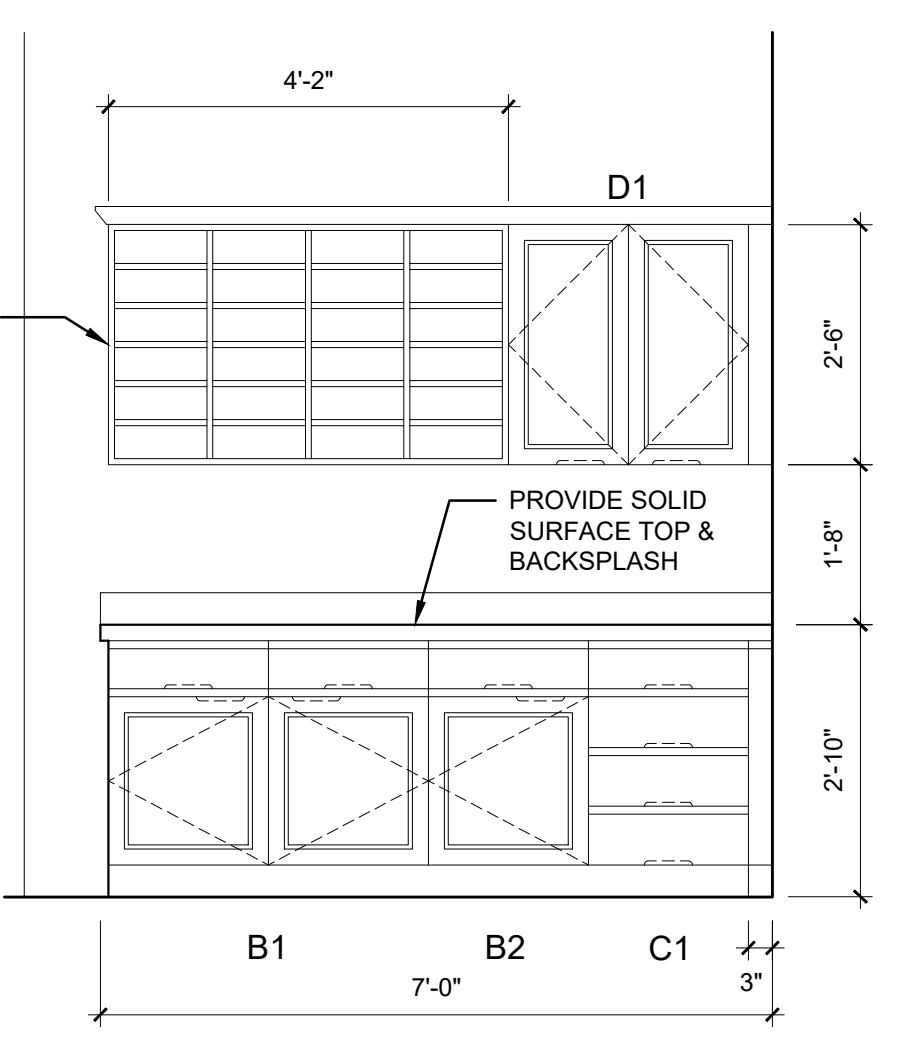
**3 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOM 103



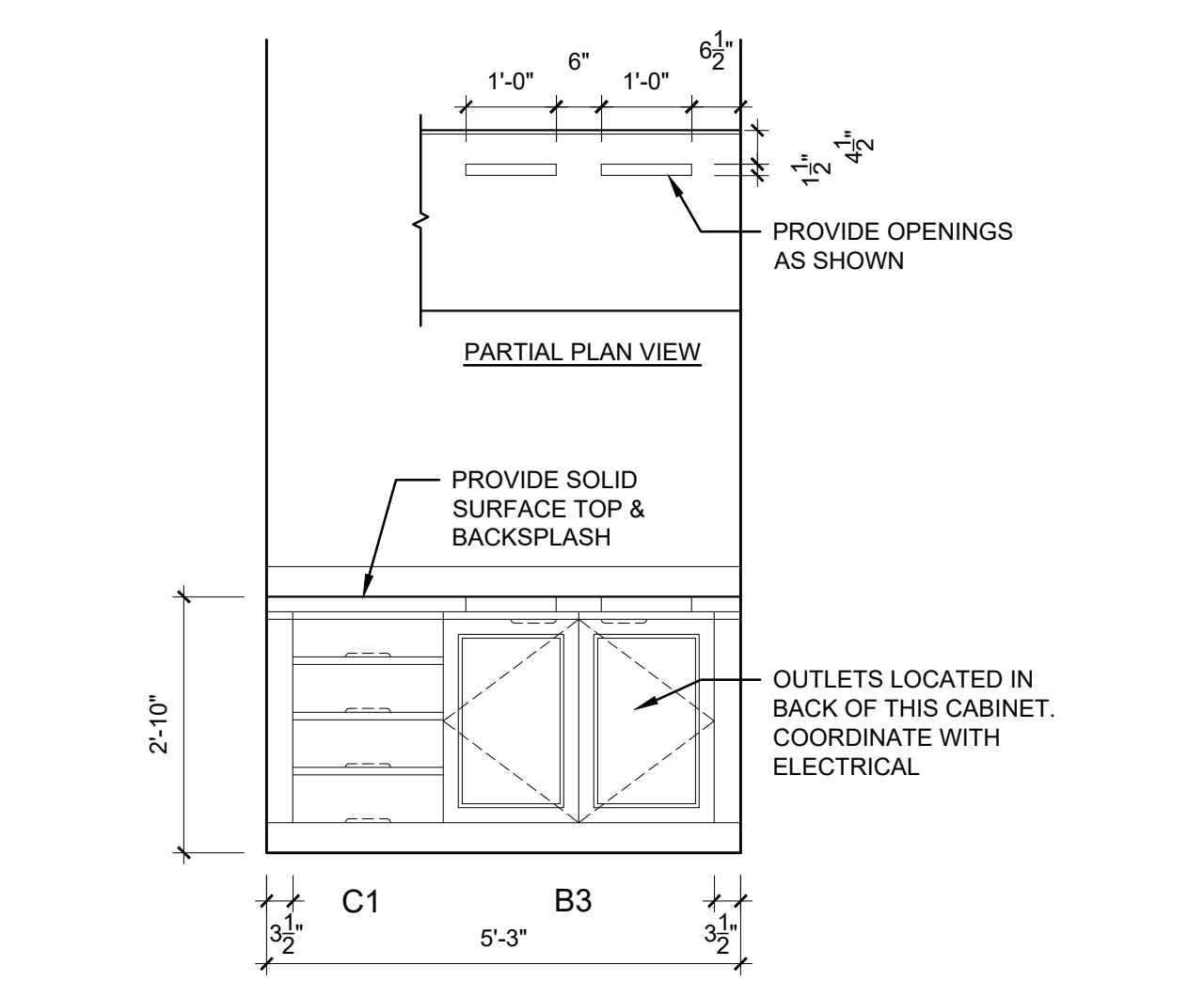
**4 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOMS 111 & 112



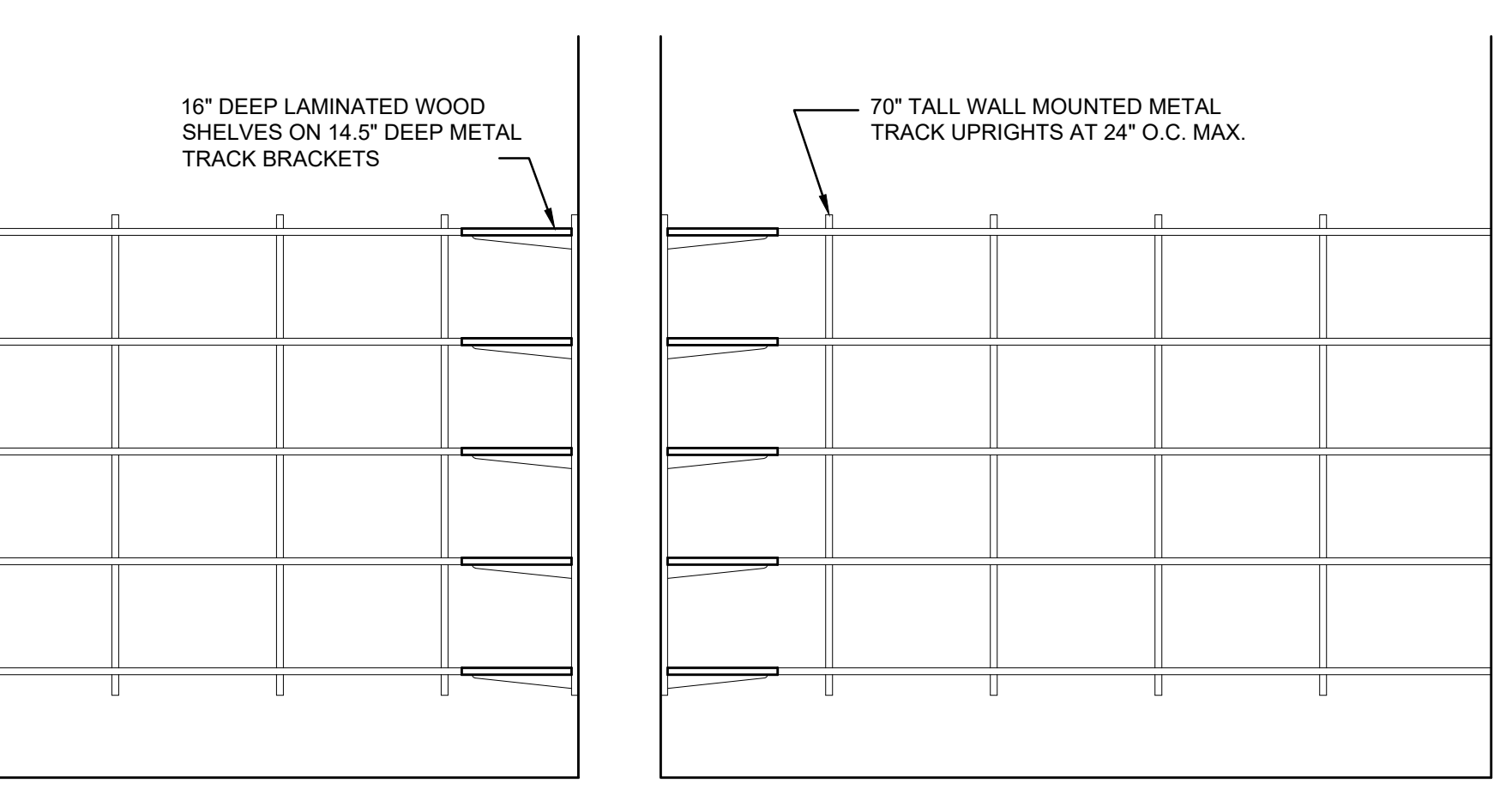
**5 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOMS 111 & 112



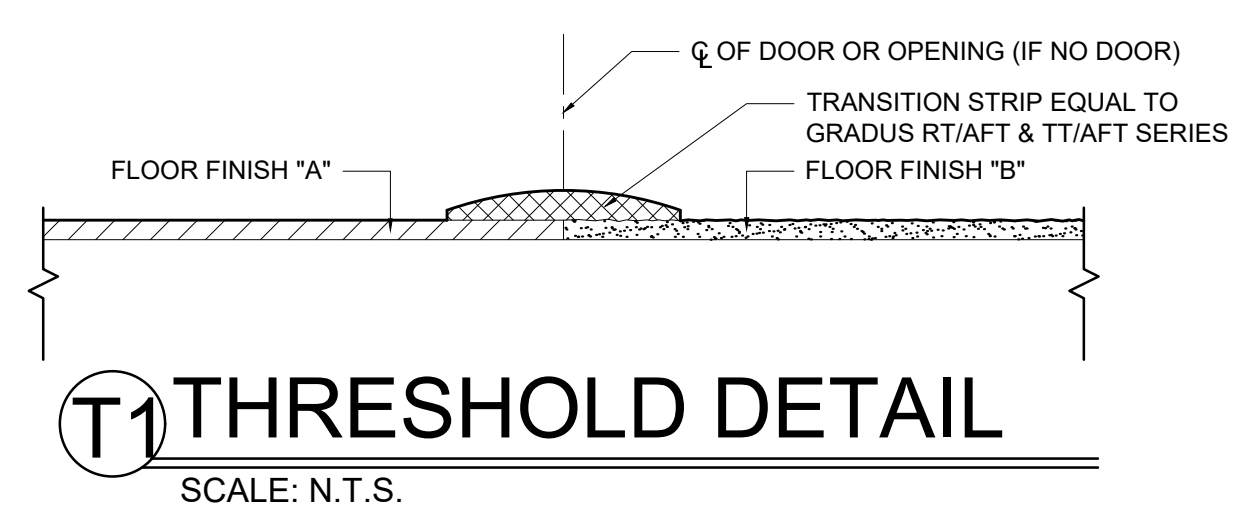
**6 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOM 109



**7 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOM 109 RADIO DESK



**8 INTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0" ROOM 110  
NOTE: CONTRACTOR SHALL PROVIDE BLOCKING IN WALLS AS REQUIRED FOR INSTALLATION OF ADJUSTABLE SHELVING



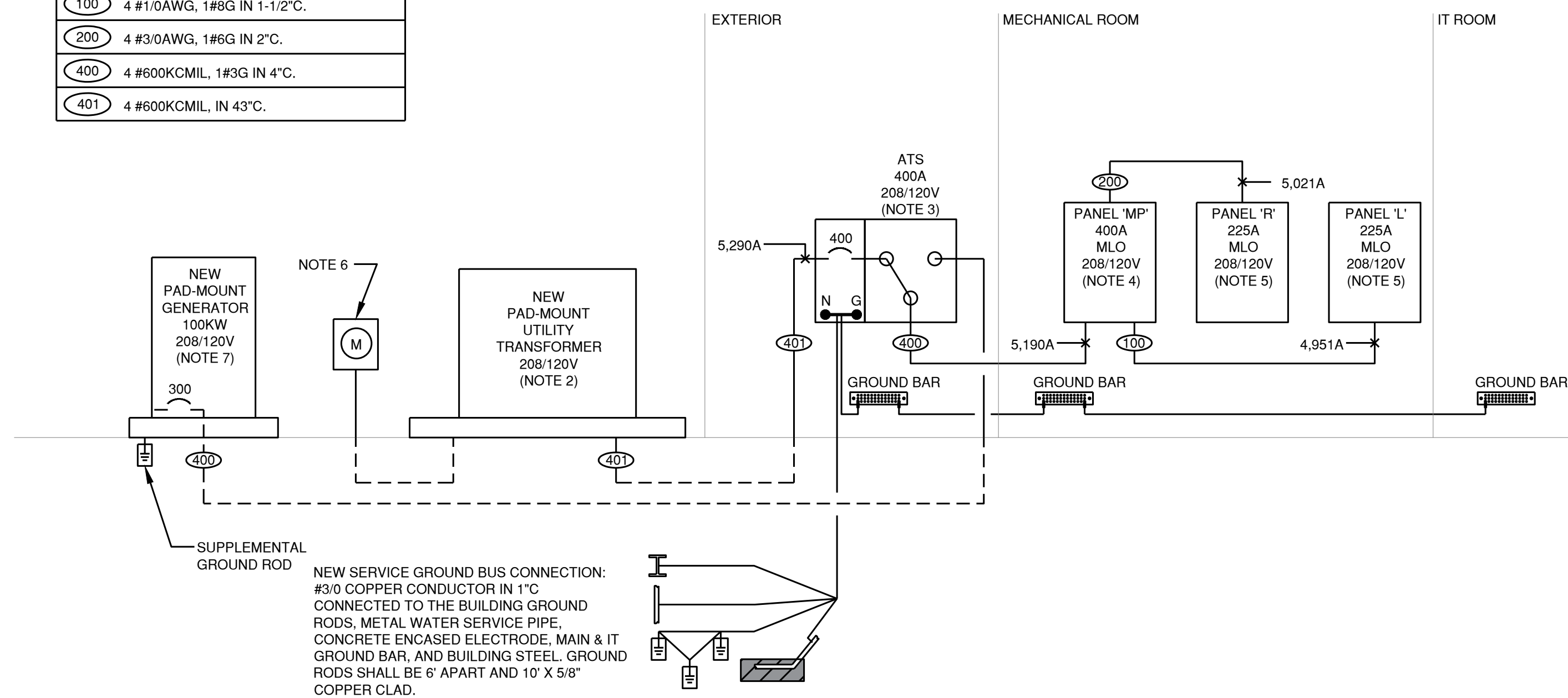
MILLWORK SCHEDULE		
A1	ADA VANITY	42W, 34H, 24D
B1	DOOR & DRAWER BASE	40W, 34H, 24D
B2	DOOR & DRAWER BASE	20W, 34H, 24D
B3	DOOR BASE	36W, 34H, 24D
C1	DRAWER BASE	20W, 34H, 24D
D1	WALL CABINET	30W, 30H, 14D

PROVIDE CROWN ABOVE WALL CABINETS EQUAL TO RANDALL BROTHERS, PROFILE RB-52  
 PROVIDE ALL REQUIRED END PANELS AND FILLER STRIPS FOR A COMPLETE INSTALLATION

**FOR CONSTRUCTION**

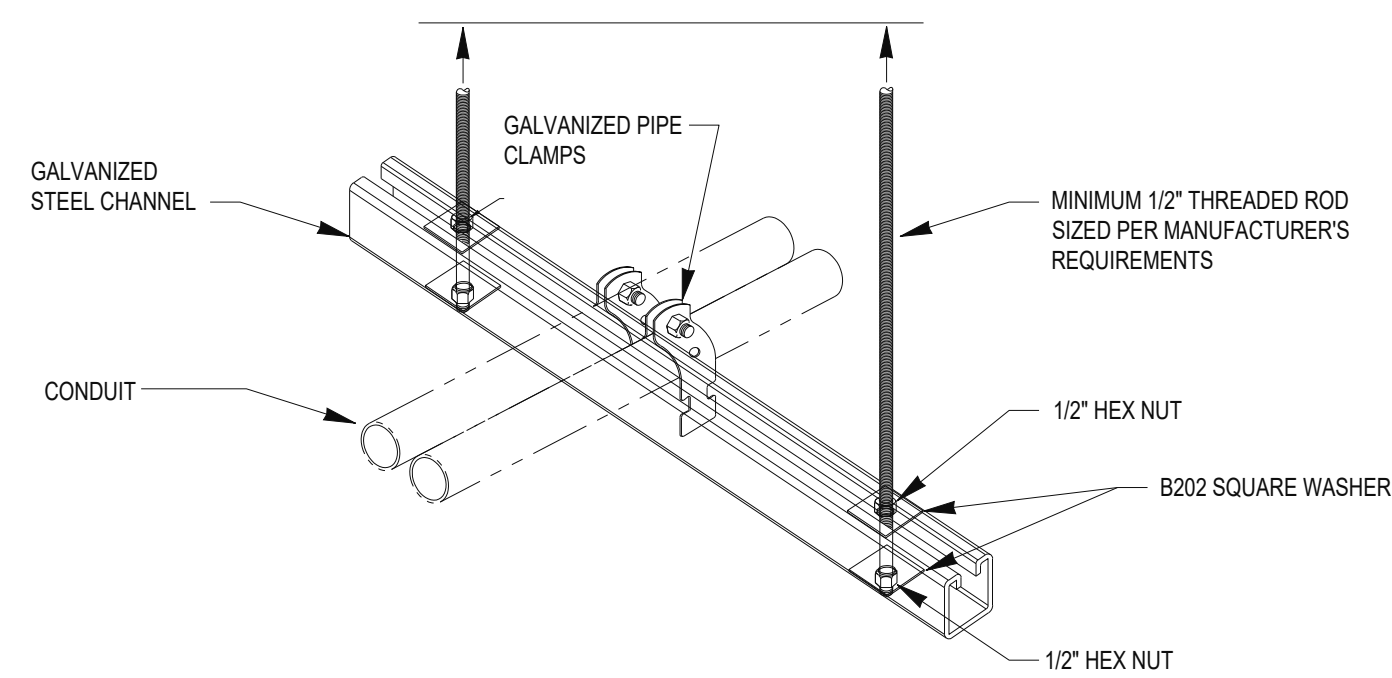
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FEEDER SCHEDULE	
100	4 #1/0AWG, 1#6G IN 1-1/2" C.
200	4 #3/0AWG, 1#6G IN 2" C.
400	4 #600KCMIL, 1#3G IN 4" C.
401	4 #600KCMIL, IN 43" C.



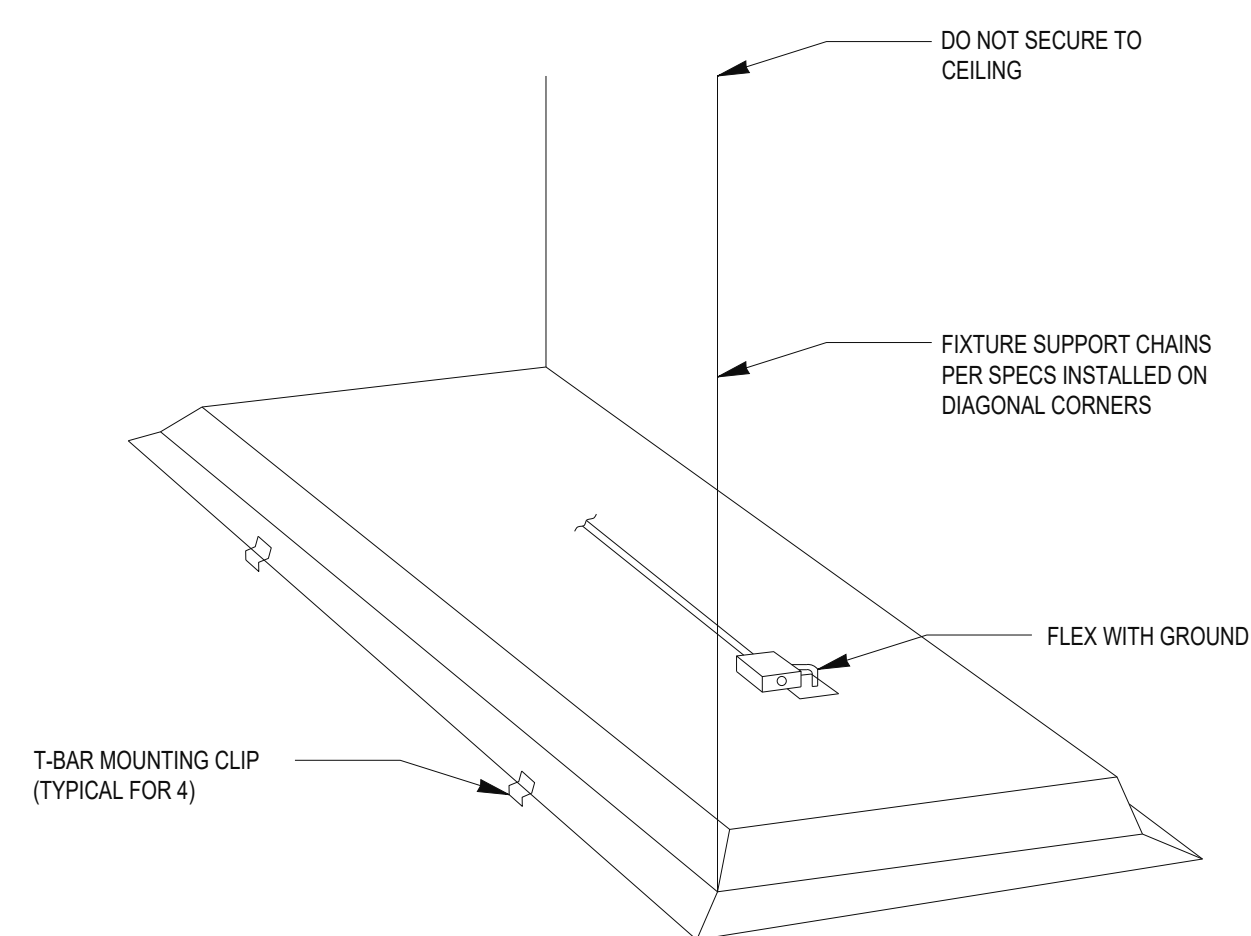
### 1 ELECTRICAL RISER DIAGRAM

SCALE: NTS



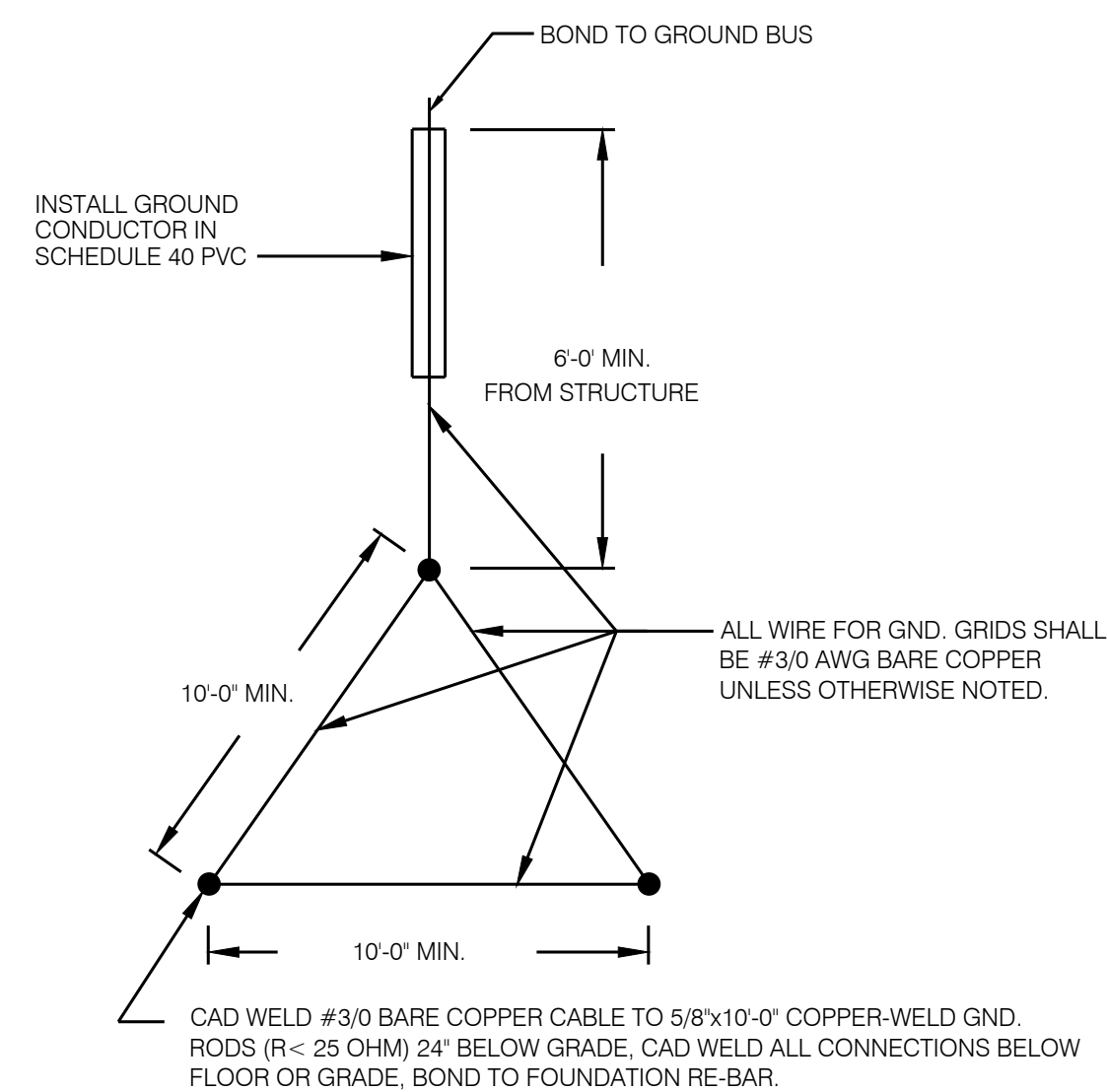
### 2 CONDUIT HANGING DETAIL

SCALE: NTS



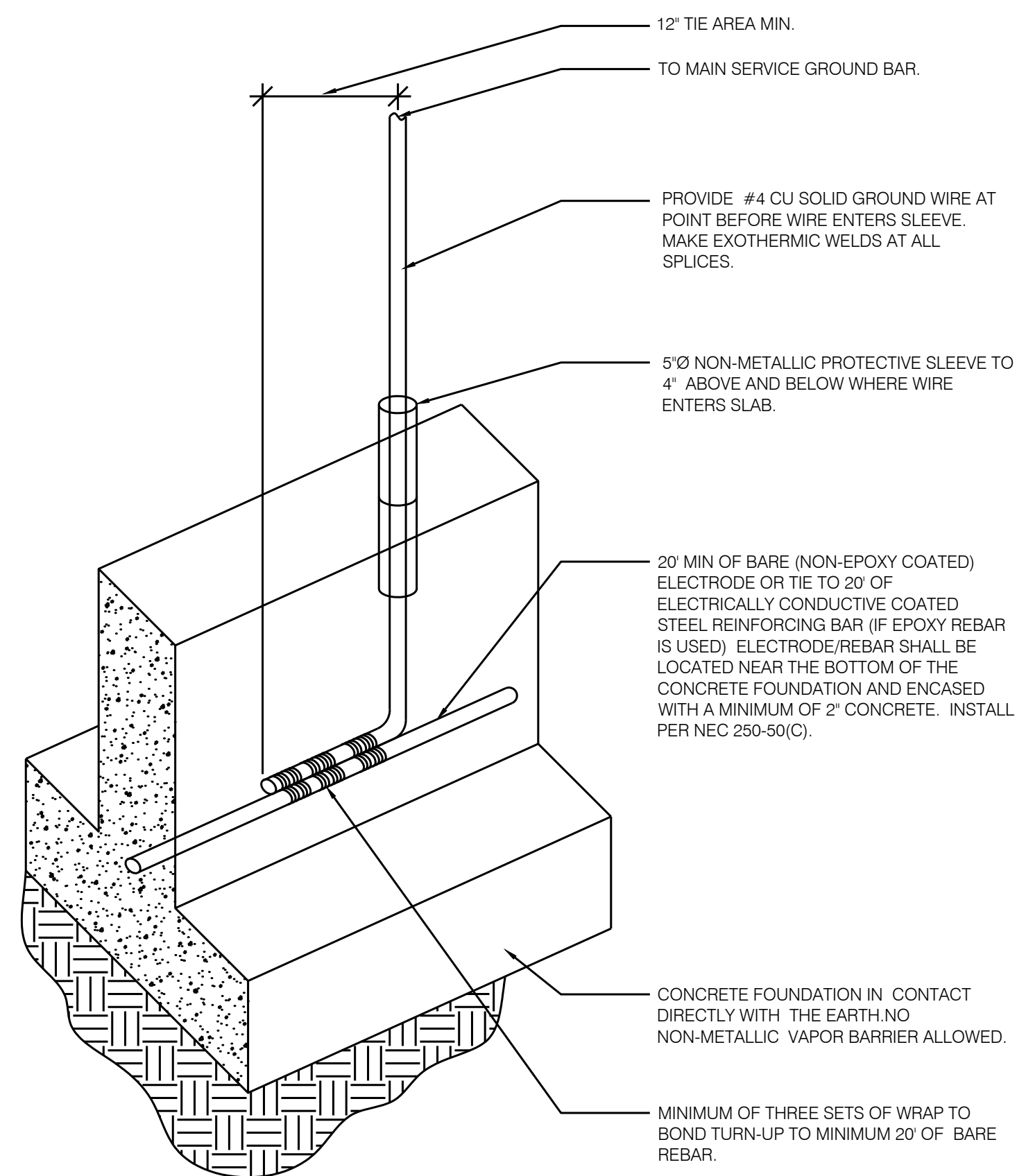
### 3 TROFFER HANGING DETAIL

SCALE: NTS



### 4 GROUNDING TRIAD DETAIL

SCALE: NTS



### 5 CONCRETE ENCASED ELECTRODE GROUNDING DETAIL

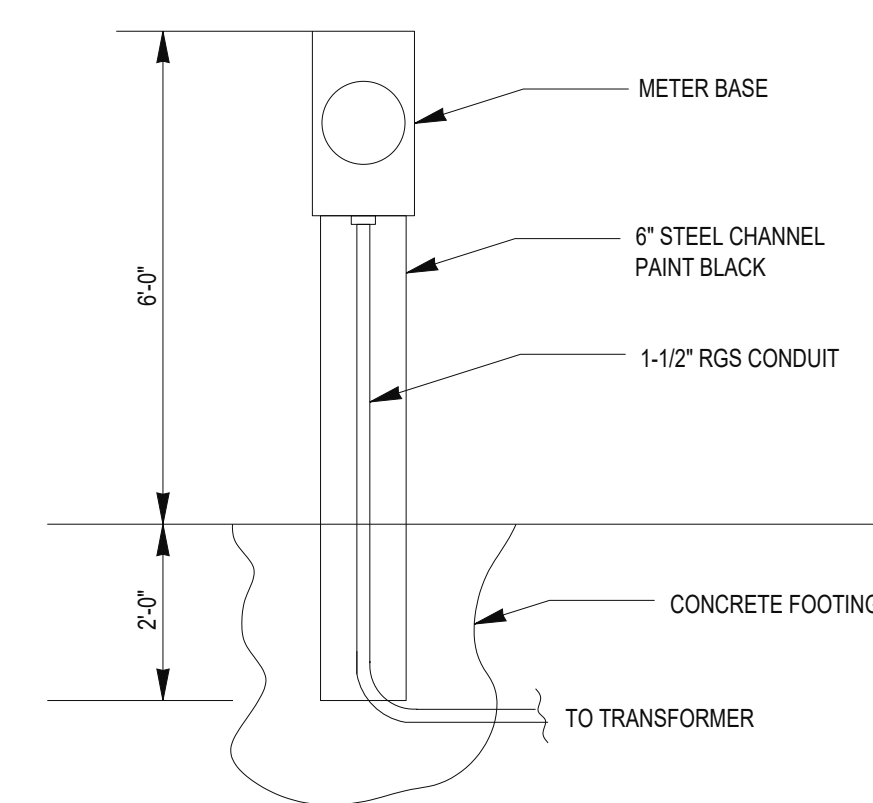
SCALE: NTS

### NEW ELECTRICAL RISER GENERAL NOTES:

- ELECTRICAL SERVICE AND INSTALLATION SHALL CONFORM TO THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE, APPLICABLE STATE AND LOCAL CODES, AND LOCAL UTILITY REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE SERVICE WITH THE UTILITY COMPANY PRIOR TO BID. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS AND REQUIREMENTS OF TRANSFORMERS, POLES, SERVICE EQUIPMENT AND OBTAIN ALL NECESSARY APPROVALS FROM THE UTILITY COMPANY PRIOR TO COMMENCEMENT OF WORK. UTILITIES SHOWN ON DRAWINGS ARE TO BE USED AS A GUIDELINE ONLY AND MAY NOT NECESSARILY BE APPROVED. FINAL APPROVALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ALL CONDUIT ROUTING WITH OTHER TRADES PRIOR TO ROUGH IN TO DETERMINE ROUTES THAT WILL NOT INTERFERE WITH OTHER TRADES.
- ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. REFER TO ARCHITECTURAL, MECHANICAL, AND CIVIL DRAWINGS IN ORDER TO BE AWARE OF CONDITIONS AFFECTING ELECTRICAL WORK.
- CONTRACTOR SHALL COORDINATE ALL MECHANICAL EQUIPMENT CONNECTIONS WITH MECHANICAL CONTRACTOR AND EQUIPMENT SUBMITTALS PRIOR TO ROUGH IN FOR EXACT LOCATIONS, CIRCUITS SIZES, AND BREAKER REQUIREMENTS.
- FOR EACH PANELBOARD INSTALLED, SPACE EQUAL TO THE WIDTH AND DEPTH EXTENDING THE FLOOR TO 6'-0" ABOVE THE PANEL OR STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED FOR ELECTRICAL EQUIPMENT INSTALLATION ONLY.
- ALL SUPPORTS, BOLTS, STRAPS, SCREWS AND SO FORTH SHALL BE OF CORROSION-RESISTANT MATERIALS OR PROTECTED AGAINST CORROSION.
- RACEWAY AND CONDUIT EXPOSED TO DIFFERING TEMPERATURES SHALL BE FILLED OR SEALED TO PREVENT THE CIRCULATION OF AIR AND FORMATION OF CONDENSATION.
- PROVIDE ENGRAVED NAME PLATES FOR EACH PANEL AND DISCONNECT INDICATING NAME AND FEEDER SOURCE AND AFFIX TO EQUIPMENT. PROVIDE TYPE-WRITTEN PANEL SCHEDULES FOR EACH PANELBOARD AND AFFIX TO INTERIOR PANEL DOOR.
- ALL FEEDERS SHOWN ARE COPPER IN CONDUIT WITH THIN/THW INSULATION. ALL HOMERUNS ARE TO BE IN EMT CONDUIT. FLEXIBLE CONDUIT SHALL BE LIMITED TO RUNS OF 10'-0" FROM JUNCTION BOX TO DEVICE.
- PROVIDE THE UTILITY PROVIDED FAULT CURRENT, PRINT ON LABEL, AND AFFIX TO SERVICE DISCONNECT. VALUES SHOWN ARE CALCULATED BASED ON A 150KVA UTILITY TRANSFORMER.

### NEW ELECTRICAL RISER NOTES:

- ALL EQUIPMENT SHOWN IN THIS NEW RISER DIAGRAM IS NEW AND TO BE PURCHASED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- COORDINATE ALL REQUIREMENTS FOR NEW ELECTRICAL SERVICE WITH THE LOCAL UTILITY AND CIVIL ENGINEER.
- PROVIDE NEW SERVICE ENTRANCE RATED AUTOMATIC TRANSFER SWITCH (ATS) AND LOCATE IN THE ELECTRICAL ROOM. ATS SHALL BE 3-POLE WITH SOLID NEUTRAL, RATED FOR 400A/208V/3PH AND HAVE OVERCURRENT PROTECTION ON INPUT FEEDER. ATS TO BE BY SAME MANUFACTURER AS GENERATOR.
- PROVIDE NEW 400A/208V/3PH MAIN LUG ONLY PANELBOARD WITH COPPER BUS THAT UTILIZES BOLT-ON BREAKERS. PANEL SHALL BE SQUARE D I-LINE OR EQUAL.
- PROVIDE NEW 225A/208V/3PH MAIN LUG ONLY PANELBOARD WITH COPPER BUS THAT UTILIZES BOLT-ON BREAKERS.
- PROVIDE METERBASE FOR NEW SERVICE AND LOCATE AT UTILITY TRANSFORMER OR AS DIRECTED BY UTILITY. SEE METERBASE MOUNTING DETAIL ON THIS SHEET FOR FURTHER REQUIREMENTS.
- PROVIDE NEW GENERAC 100KW DIESEL GENERATOR 208V/3PH WITH A 300A OUTPUT BREAKER IN A WEATHERPROOF STEEL ENCLOSURE WITH BAKED ON POWDER COAT FINISH. PROVIDE BATTERY CHARGER, REMOTE ANNUNCIATOR, AND BELLY MOUNTED 350 GALLON DIESEL FUEL TANK. PROVIDE CONCRETE BASE 6" LARGER THAN GENERATOR ALL THE WAY AROUND. EQUAL BY CATERPILLAR OR CUMMINS WILL BE CONSIDERED.



### 6 METERBASE DETAIL

SCALE: NTS

RELEASED FOR CONSTRUCTION

PROJECT NUMBER  
23-017

DATE  
03/13/24

REVISIONS

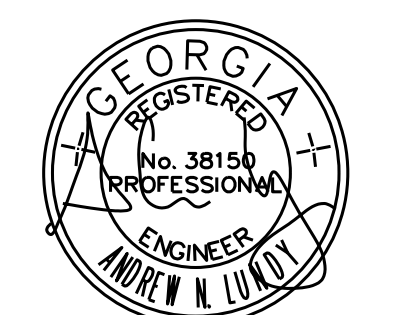
NO.	DATE
ADD#4	04/12/24

FACILITY CODE  
000-0000



855 ABUTMENT ROAD  
SUITE FOUR  
DALTON, GA 30721  
TEL. 706.529.5895

ADDITIONS & RENOVATIONS TO:  
**EMS STATION #30**  
2017 E. CHEROKEE DRIVE, WOODSTOCK GA 30188  
CHEROKEE COUNTY BOARD OF COMMISSIONERS

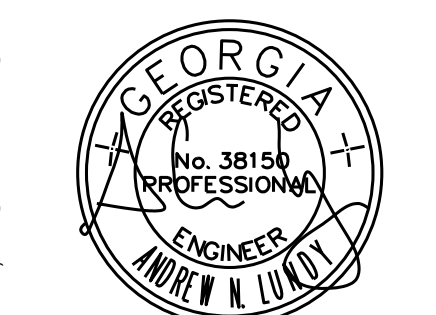


SHEET INDEX  
ELECTRICAL DETAILS

SHEET INDEX

E2.0

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**SYSTEMS GENERAL NOTES:**

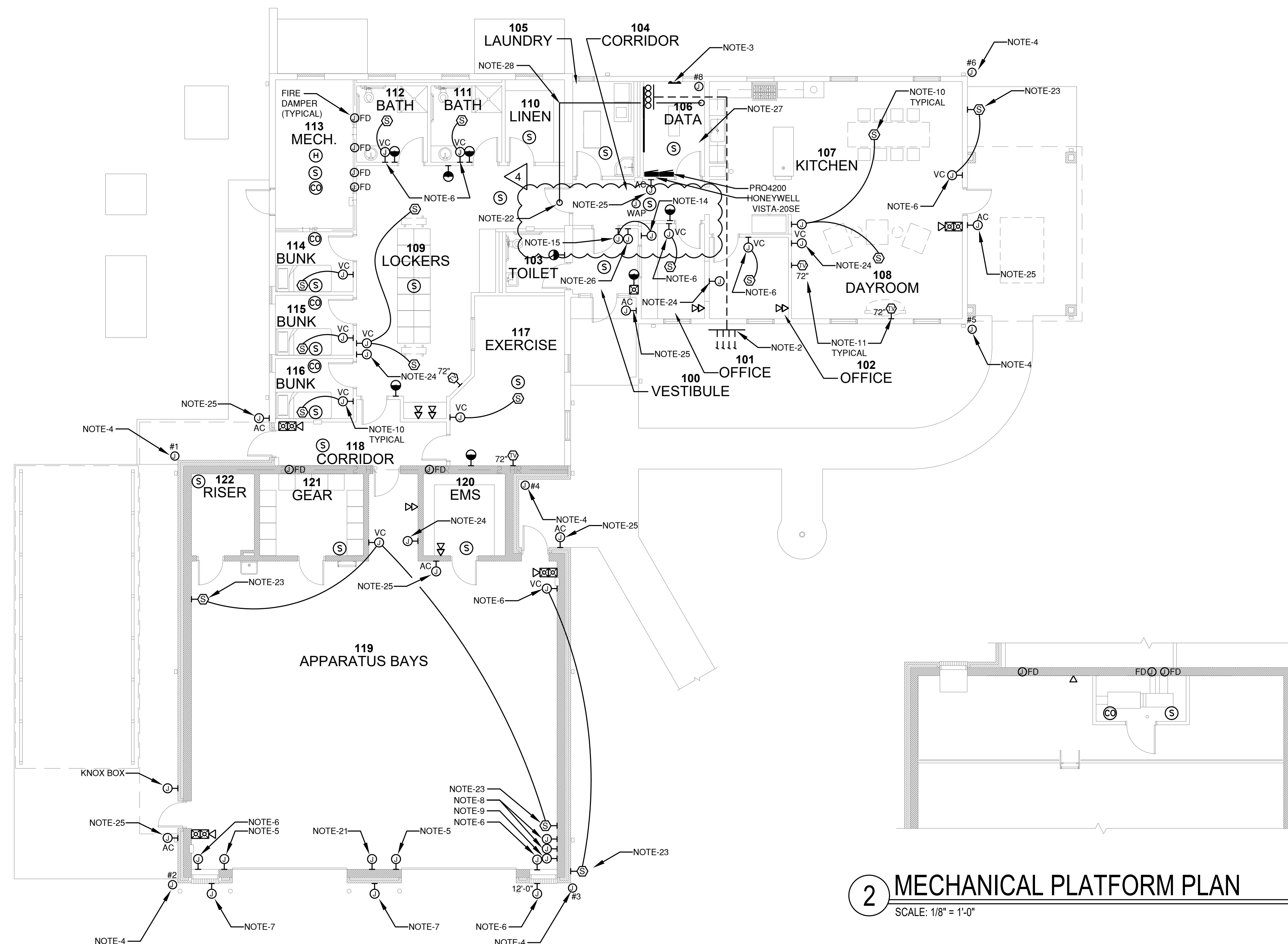
- A. CONTRACTOR TO PROVIDE ALL LOW VOLTAGE CABLING. ALL HOME RUNS FOR DATA CABLE SHALL BE CAT6 AND TERMINATE IN NEW DATA RACK. PROVIDE NUMBERING SCHEME AND AFFIX LABEL AT BOTH CABLE ENDS AND COVER PLATE. TERMINATE ENDS ON ALL CABLES. LABELS SHALL BE TYPE WRITTEN, PERMANENT TYPE LABELS. SEE SPECIFICATION 16120 FOR COUNTY STANDARDS AND REQUIREMENTS.
- B. COORDINATE ALL LOW VOLTAGE REQUIREMENTS, CABLING, TERMINATIONS, AND EXACT LOCATIONS WITH OWNER PRIOR TO INSTALLATION.
- C. ALL DATA DROPS ARE TO INCLUDE THREE (3) CAT6 CABLES IN EACH BOX UNLESS NOTED OTHERWISE BELOW IN THE NOTES. PROVIDE COVER PLATES WITH MULTIPLE CONNECTIONS. PROVIDE (1) BLUE CABLE, (1) WHITE CABLE, & (1) GRAY CABLE.
- D. ALL DATA JUNCTION BOXES SHALL HAVE A 1-1/4" CONDUIT STUBBED ABOVE FINISHED CEILING IN AN ACCESSIBLE LOCATION.
- E. FOR EACH TELEVISION MOUNTED ON THE WALL, PROVIDE 1-1/4" CONDUIT BETWEEN TELEVISION AND JUNCTION BOX MOUNTED AT 18" AFF. PROVIDE HDMI CABLE BETWEEN BOXES AND COVER PLATE WITH FEMALE HDMI CONNECTIONS.
- F. ALL CAMERA DATA CABLES SHALL BE YELLOW. ALL WIFI DATA CABLES SHALL BE GREEN. ALL SINGLE DROPS SHALL BE BLUE INCLUDING TV DISPLAYS, DUCT DETECTORS, FACP, ETC.
- G. CONTRACTOR IS TO PROVIDE EQUIPMENT LISTED ON THIS SHEET. COORDINATE WITH OWNER ON THIS EQUIPMENT PRIOR TO PURCHASE.

**SYSTEMS KEY NOTES:**

1. PROVIDE (2) 4" X 8" X 3/4" FIRE RESISTANT PLYWOOD BACKBOARD PAINTED GRAY FOR TELEPHONE SYSTEM. CONNECT #6 AWG, INSULATED, STRANDED, COPPER GROUND WIRE FROM TELEPHONE SYSTEM TO GROUND BUS AT MAIN PANEL.
2. ROUTE (4) - 4" PVC CONDUITS BELOW GRADE TO PROPERTY LINE, PROVIDE PULL STRING, AND CAP BOTH ENDS. COORDINATE WITH SERVICE PROVIDER AND OWNER ON EXACT REQUIREMENTS.
3. PROVIDE CHARTSWORTH COPPER GROUND BAR, 4" X 20" X 1/4", PART NUMBER 40158-020 WITH ISOLATION STANDOFFS AND LUG KIT, MOUNT TO WALL, 12" ABOVE FINISHED FLOOR. SEE GROUNDING DETAIL ON SHEET E2.0 FOR FURTHER REQUIREMENTS.
4. PROVIDE CAMERA BACKBOX, RECESSED AND 1-1/4" CONDUIT STUBBED INTO ACCESSIBLE CEILING FOR CAMERAS. COORDINATE WITH OWNER ON REQUIREMENTS AND MOUNTING LOCATION. PROVIDE AND TERMINATE ONE (1) CAT6 CABLE TO EACH CAMERA FROM NEW DATA RACK. SEE CONTRACTOR PROVIDED EQUIPMENT FOR SPECIFICATIONS.
5. PROVIDE SINGLE-GANG JUNCTION BOX MOUNTED AT 4'-0" AFF AND 3/4" CONDUIT ROUTED BACK TO IT ROOM.
6. PROVIDE 4" JUNCTION BOX AND 3/4" CONDUIT ROUTED TO IT ROOM FOR SPEAKER. SPEAKER SHALL BE ORIGIN ACOUSTICS D65 IN-CEILING LOUDSPEAKER, MAGNETIC GRILL TO BE PAINTED.
7. CONTRACTOR TO INSTALL VENDOR SUPPLIED APPARATUS BAY DOOR ANTENNA RECEIVER ON EXTERIOR WALL NEXT TO DOOR FRAME. PROVIDE RECESSED JUNCTION BOX AND CONDUIT AS REQUIRED AND COORDINATED WITH VENDOR.
8. APPARATUS BAY REMOTE DOOR CONTROL STATION, TYPICAL OF (2). CONTRACTOR TO PROVIDE CONTROL BOX ALONG WITH WIRING AND CONDUIT FOR REMOTE APPARATUS BAY DOOR CONTROL PUSHBUTTONS. PROVIDE 3/4" CONDUIT FROM REMOTE CONTROL BOX TO ASSOCIATED APPARATUS BAY DOOR CONTROLLERS. EACH CONTROL BOX SHALL BE INSTALLED ON WALL AT 5'-0" AFF. ONE CONTROL BOX SHALL HAVE UP / DOWN CONTROLS FOR THE FRONT DOORS AND ONE CONTROL BOX SHALL HAVE UP / DOWN CONTROLS FOR THE REAR DOORS. PROVIDE ADDITIONAL DRY CONTACTS AS REQUIRED FOR CONTROL SYSTEM. PROVIDE ALL POWER AND CONTROL CONDUCTORS IN CONDUIT AS REQUIRED AND COORDINATED WITH EQUIPMENT VENDOR.
9. PROVIDE RECESSED SINGLE-GANG JUNCTION BOX AND 3/4" CONDUIT ROUTED TO IT ROOM AND MOUNT 12'-0" AFF.
10. FOR EACH VOLUME CONTROL, VC, PROVIDE 100W SINGLE GANG STAINLESS STEEL 70.7V COMMERCIAL ATTENUATOR #AT100 TO CONTROL SPEAKER SHOWN.
11. FOR EACH TELEVISION SHOWN, PROVIDE 4" RECESSED JUNCTION BOX IN WALL AT 6'-0" AFF, 4" RECESSED JUNCTION BOX 18" AFF, 3/4" CONDUIT BETWEEN JUNCTION BOXES, AND 3/4" CONDUIT FROM TELEVISION BOX TO IT ROOM. PROVIDE RG6 CABLING BETWEEN IT ROOM AND TELEVISION JUNCTION BOX, LABEL AND TERMINATE BOTH ENDS OF EACH CABLE. PROVIDE HDMI CABLE BETWEEN JUNCTION BOXES AND PROVIDE COVER PLATES TO ACCOMMODATE EACH CABLE TYPE.
12. PROVIDE SINGLE-GANG JUNCTION BOX MOUNTED IN WALL AT 4'-0" AFF AND 3/4" CONDUIT ROUTED TO IT ROOM FROM EACH BUNK ROOM.
13. PROVIDE JUNCTION BOX ABOVE CEILING FOR NETWORK ACCESS POINT FOR WIFI, DATA DROPS, AND AUDIO VISUAL CABLING. PROVIDE 1" CONDUIT BACK TO IT ROOM. DO NOT INSTALL ANY WIFI DEVICES, BY OWNER.
14. PROVIDE AND INSTALL BUTTON AND CONTROLS TO UNLOCK LOBBY DOOR FROM WATCH OFFICE.
15. PROVIDE AND INSTALL REMOTE-OPERATED ELECTRIC STRIKE DOOR LOCK. COORDINATE WITH ARCHITECTURAL PLANS ON REQUIREMENTS.
16. PROVIDE (1) DATA OUTLET AT 18" AND (1) DATA OUTLET AT 48" RECESSED IN WALL AT EACH DOUBLE DATA OUTLET SHOWN IN WATCH OFFICE.
17. PROVIDE CONNECTION TO PIV, SEE CIVIL PLANS FOR LOCATION. PROVIDE 3/4" PVC BELOW GRADE FROM PIV TO FACP.
18. PROVIDE RECESSED JUNCTION BOX IN WALL FOR FIRE BELL. CONNECT TO FIRE ALARM CONTROL SYSTEM.
19. PROVIDE JUNCTION BOX RECESSED IN WALL AT 12'-0" AFF FOR NETWORK ACCESS POINT FOR WIFI. PROVIDE 1" CONDUIT BACK TO IT ROOM AND RECEPTACLE ADJACENT TO JUNCTION BOX. DO NOT INSTALL ANY WIFI DEVICES, BY OWNER.
20. PROVIDE RECESSED JUNCTION BOX IN WALL 6" ABOVE COUNTER FOR OWNER'S RADIO CONNECTION. PROVIDE 2" CONDUIT WITH SWEEPING ELBOWS BACK TO IT ROOM.
21. PROVIDE 4" JUNCTION BOX WITH BLANK COVER IN CEILING AND 3/4" CONDUIT BACK TO DATA CLOSET 122 FOR FUTURE OWNER PROVIDED COUNT DOWN TIMERS. PROVIDE PULL STRING.
22. PROVIDE A 2" CONDUIT BETWEEN DATA ROOM 122 AND LOCATION SHOWN. CONDUIT SHALL STUB THROUGH ROOF AND INCLUDE A WEATHERHEAD AND BOOT.
23. PROVIDE EXTERIOR SPEAKERS WHERE INDICATED, SPECO TECHNOLOGIES 8"X11" WEATHERPROOF SPEAKER WITH TRANSFORMER #SPC30RT.
24. PROVIDE RECESSED JUNCTION BOX AT 48" AFF TO TOP OF BOX. ROUTE 3/4" CONDUIT FROM BOX TO IT ROOM. PROVIDE PULL STRING.
25. ACCESS CONTROL, AC, PROVIDE AND INSTALL CARD ACCESS READER AND CONNECTION TO ELECTRIC STRIKE DOOR LOCK. COORDINATE WITH ARCHITECTURAL PLANS ON REQUIREMENTS. PROVIDE RACEWAY, JUNCTION BOXES, DEVICES, CIRCUIT R-24 FOR 120V POWER, AND ALL NECESSARY EQUIPMENT REQUIRED FOR OPERATION. SEE SPEC SECTION 28-10-00 FOR CARD ACCESS REQUIREMENTS.
26. LOCATION OF 6160 KEYPAD FOR SECURITY SYSTEM. PROVIDE ADDITIONAL CHIME PROGRAMMED TO ANNUNCIATE WHEN FRONT OF REAR DOOR IS OPENED. INTEGRATE DOOR SENSORS, CHIME, AND KEYPAD INTO HONEYWELL VISTA-20SE SECURITY SYSTEM. COORDINATE WITH OWNER ON LOCATION OF CHIME AND DESIRED OPERATION.
27. PROVIDE AMPLIFIER FOR SPEAKER SYSTEM, AMP-EPIISODE 70V IP-ENABLED, 2-CHANNEL, 300W, WITH RACK EARS.
28. PROVIDE SWEEPING 90-DEGREE BENDS FOR COMMUNICATION CABLES. APPLIES TO ALL BENDS IN CONDUIT RUN.

CONTRACTOR PROVIDED EQUIPMENT	Make	Mfr part Number	Quantity	Note
Floor-mounted 2-post Telco rack	CPI	55053-703	1	Provide the following 3 items in quantities and lengths as directed by owner
Ladder rack	CPI	10250-712		12" ladder rack
Wall angle kit	CPI	11421-712		12" angle kit
Rack mounting plate	CPI	10595-712		Rack mounting plate
Pro License (Cameras)	Valerus	VLR-VPRO-LIC	6	Single Edge Device new license for Vicon Cameras
Protection Plan (Cameras)	Valerus	VLR-PRO-UPP-5	6	
Recording Server (Cameras)	Valerus	VLR-4TB-A-RK	1	4TB internal HDD Storage, Rack mount
Outdoor Bullet Camera	Valerus	V2008B-W310MIR	1	8MP
Outdoor Bullet Camera	Valerus	V22105B-W28IR	5	5MP, true WDR, 2.8 mm Fixed lens, IR
Backbox (Cameras)	Valerus	V2100B-Box	6	
Sound System	AtlasIED		9	Volume Control 100W Single Gang Stainless steel 70.7V Commercial Attenuator #AT100
Sound System	Origin Acoustics	D65-In-Ceiling Loudspeaker	12	Speakers-Origin Acoustics DIRECTOR D65 In-Ceiling Loudspeaker (magnetic grill to be painted)
Sound System	Episode		1	AMP-Episode 70V IP-Enabled Amplifier, 2-channel 300W with rack mount ears
Sound System	Speco Technologies	SPC30RT	4	Outside/Bay Speaker-Speco Technologies 8" x 11" weatherproof speaker with transformer #SPC30RT

\*Equipment noted is for the large components but does not reflect all necessary equipment. Provide all necessary equipment for a fully operational system.



**1 ELECTRICAL SYSTEMS PLAN**

SCALE: 1/8" = 1'-0"

**2 MECHANICAL PLATFORM PLAN**

SCALE: 1/8" = 1'-0"

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