

Project Name: **Anderson County Sports Training Facility**
Project No: **23029**

File No.: J04

Date: November 10, 2023

To: **Plans Examiner: Jason D. Thompson**
Phone: (615) 741-0311
Email: Jason.d.thompson2@tn.gov
Date plans received: 10/18/2023

Owner: Anderson County Schools
Contact: Clay McCamey
(865) 388-7814

Architect: Design Innovation Architects - DIA
Contact: Tyler Goza
(423) 310-6350

This Addendum forms a part of the Construction Documents and modifies the original Documents dated October 17, 2023, as noted below. The items listed below shall supersede the previous information in the previously issued Bidding Documents and shall be incorporated into the entire Work described therein.

This Addendum consists of eight (08) pages, as well as the attached documents listed below.

Attachments:

1. Drawings:
G000, G099, G100, G199, S001, S101, S102, AS101, A101, A102, A111, A121, A201, A301, A311, A321, A500, A600, A700, FP001, FP002, FP101, P101, P201, M001, M101, E101, E102, E201, R101.
2. Specifications:
NA - specs on drawings.
3. COMcheck documentation:
\$\$_Comcheck_Ext Lighting
\$\$_Comcheck_Int Lighting
\$\$_Comcheck_Mechanical
\$\$_Comcheck_Envelope Compliance

Changes to prior Addenda:

4. None

Changes to Bidding Requirements:

5. NA

Changes to Agreement:

6. None

Changes to Conditions of the Contract:

7. None

Changes to Drawings:

8. G000: Index of drawings revised to reflect changes in addendum 01. TFM # added to sheet.
9. G099: TFM # added to sheet. Sprinkler and seismic requirements added to sheet. Life safety plan revised per SFM comments.
10. G100: COMcheck documentation provided in documents.
11. G199: TFM # added to sheet.
12. S001: TFM # added to sheet; IBC edition numbers corrected in General Notes.
13. S101: TFM # added to sheet.
14. S102: TFM # added to sheet.
15. AS101: TFM # added to sheet.
16. A101: TFM # added to sheet.
17. A102: TFM # added to sheet.
18. A111: TFM # added to sheet.
19. A121: TFM # added to sheet. Not added to clarify all wood to be noncombustible – fire retardant, pressure treated wood.
20. A201: TFM # added to sheet. FDC signage added; to be coordinated with fire chief during construction.
21. A301: TFM # added to sheet.
22. A311: TFM # added to sheet. Perimeter insulation added to slab turndown / foundation in order to satisfy energy code requirements.
23. A321: TFM # added to sheet.
24. A500: TFM # added to sheet. Hardware sets updated.
25. A600: TFM # added to sheet.
26. A700: TFM # added to sheet. Location of FDC noted. Exit sign quantity and location noted.
27. FP001: Added the name of the person who conducted the flow test under the general note and the TFM # to the sheet.
28. FP002: Added the TFM # to the sheet.
29. FP101: Added note to not route sprinkler main under foundation. Added the TFM # to the sheet.
30. P101: Added TFM # to the sheet.
31. P201: Added TFM # to the sheet.
32. M001: Added unit heater installation detail and added TFM # to the sheet.
33. M101: Added TFM # to the sheet.
34. E101: Added TFM #03970-F to the sheet.
35. E102: Added fire alarm devices, transformer, and TFM #03970-F to the sheet.
36. E201: Added legend items, spec sections, fire alarm details, feeder diagram, and TFM #03970-F to the sheet.
37. R101: Sheet was included in index, but not provided with original submittal.

Changes to Specifications:

38. NA - specs on drawings.

Fire Marshal Conditions Report Response(s):

Information to be Included on the Plan Drawings

1. If a state agency will license the facility, identify the licensing agency and the license type on the cover sheet.

Response: facility will not be licensed by a state agency.

2. Identify the specific sprinkler standard on the cover sheet. Include the scope of building protection: e.g., Equipped Throughout, Partial, Incidental Area. IBC 107.2.1, IBC 903.3.1.

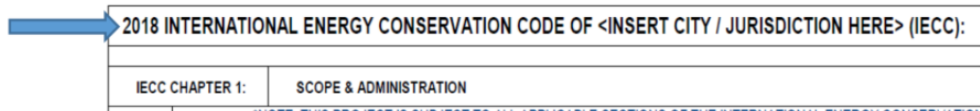
Response: sprinkler requirement added to G099.

3. Give a clear statement on where seismic bracing is required on the cover sheet.

Response: seismic requirements added to G099.

4. Provide the IECC Climate Zone.

Review Comments: The 2018 IECC is referenced on Sheet G099. The state is currently under the 2012 IECC or the 2006 edition of the IECC.



2018 INTERNATIONAL ENERGY CONSERVATION CODE OF <INSERT CITY / JURISDICTION HERE> (IECC):	
IECC CHAPTER 1:	SCOPE & ADMINISTRATION

Response: code year is changed on G099, and values were checked for compliance with 2012 code year.

5. The following drawings were indexed but not provided with the submittal. IBC 107.2.1.

Review Comments: Sheet R101 is shown in the "Sheet Index," but is not supplied for review. (Sheet: G000)

Response: this sheet is the site survey, provided for reference.

6. The following drawings were submitted but not shown in the "Index of Drawings" IBC 107.2.1.

Review Comments: Sheet S1.0 is supplied for review but is not shown in the "Sheet Index." (Sheet: G000)

Response: all sheets shown on the drawing index are provided for review.

7. The In other than R-2, R-3, and I-1 occupancies, provide a complete Life Safety Plan:
(1) Show the number of occupants at exits and exit discharges. IBC 1005.3 and 1008.1.1.

Review Comments: Please include the number of occupants at each exit and exit discharge. (Sheet: G099)

Response: life safety plan on G099 is revised to include number of occupants at each exit.

8. The Provide COMcheck Compliance Certificates for energy code compliance with signature and date by a Tennessee registrant. Software & Web Tools are available at <http://www.energycodes.gov/software-and-web-tools>. Include all categories for the project scope of work: i.e. exterior envelope, interior lighting, exterior lighting, and mechanical. If the scope of work in an existing building does not require an upgrade to current IECC requirements, include a letter identifying the exception(s) used. Combine all individual energy documents into one pdf and submit through TN SFMO Portal under "Energy Certificates".

Review Comments: Provide COMcheck Compliance Certificates for review.

Response: sheet G100 has been provided to document COMcheck Compliance.

- Provide PDF copy of the specifications manual, IBC Section 107, Rule 0780-02-03-.03(3) and A&E Rule 0120-02-.08(3).

Review Comments: Provide PDF copy of specification manual for review.

Response: specs on drawings; no spec manual.

Site Plans

- The fire apparatus road must extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building unless otherwise approved by the fire chief of the responding fire department. IFC 503.1.1.

Response: Daniel Adams of the Clinton Fire Department has reviewed the plans for adequate fire department access and approved the current configuration. The fire official has requested that when the building is further along in construction, he would like to meet on site to discuss signage and fire lanes to ensure the FDC remains unobstructed. Correspondence submitted for SFMO record.

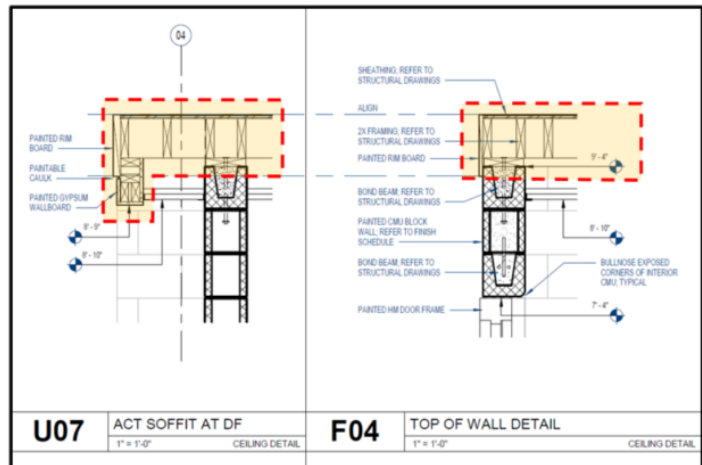
- For new buildings or existing buildings with new or relocated fire department connections, the location of fire department connections shall be approved by the fire chief. IBC 912.2.

Response: see notes on FP101. "FDC" signage was added to A201 with a note to confirm final location with fire official prior to installation. Sign elevation on A700.

Architectural Wall/Floor Sections and Details

- Construction Type I and II Partitions must be constructed of noncombustible materials or fire retardant treated wood. IBC 603.1 Combustibles are not permitted in concealed spaces of Type I and II construction (see exceptions). IBC 718.5

Review Comments: Please clarify if the wood used to construct the ceiling structures for the interior rooms will be of noncombustible materials or fire-treated wood. (Refer to Sheet S102 (6) and Sheet A121 (F04 & U07))



Response: all interior wood will be fire retardant, treated wood. Note has been added to U07 and F04 on sheet A121 to reflect this requirement.

Door/Door Hardware/Window Schedules and Details

13. Provide a door schedule and opening details. Schedule must show the rating of opening protectives and the door hardware set number. IBC 107.2.1

Review Comments: Provide 'Hardware Set' information in the Door Schedule for review. (Sheet: A500)

FIRE RATING	HARDWARE SET	DETAIL REFERENCES			COMMENTS
		HEAD	SILL	JAMB	
---	T80				
---	T80				
---	T80				
---	T80				INSULATED
---	T80				INSULATED
---	T80				
---	T80	FD4 / A500		AD4 / A500	
---	T80	FD4 / A500		AD4 / A500	
---	T80	FD4 / A500		AD4 / A500	

HW SETS.
T80

Response: hardware sets are provided on A500.

Structural Drawings

14. Construction documents shall show the size, section and relative locations of structural members with floor levels, column centers and offsets dimensioned. The design loads and other information pertinent to the structural design required by Sections 1603.1.1 through 1603.1.9 shall be indicated on the construction documents.

Review Comments: Please update Sheet S001 to show that all design loads are in accordance the current state adopted code edition. (2012 International Building Code) (See images below taken from Sheet S001)

Response: S001 updated to reflect IBC 2012 and all design loads and values were checked for compliance with 2012 IBC.

15. Provide the structural design for this pre-engineered building. The design of pre-engineered steel structures or structural components (i.e., trusses, buildings, etc.) must be prepared, sealed, signed, and dated by a Tennessee registrant as required by T.C.A. 62-2-102(b). Structural shop drawings for this pre-engineered building will be a stipulation on the plans upon initial approval of the project and no response is required at this time for this item.

Response: the pre-engineered metal building drawings will be prepared, sealed, signed, and dated by a Tennessee registrant selected by the Contractor awarded the job.

16. Trusses spanning 60 feet or great shall conform to the requirements of IBC 2211.3.3.

Response: 2211.1.3.1 appears to apply to cold-formed steel trusses and not steel frames (bents). This project structure is a pre-engineered metal building.

2211.3.3 is not applicable.

Mechanical Drawings

17. Construction documents shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this code. Construction documents shall indicate where penetrations will be made for mechanical systems, and the materials and methods for maintaining required structural safety, fire-resistance rating, and fire blocking. IBC 107.2.1 and IMC 106.3.1

Review Comments: Please note/ detail how the Gas Fired Unit Heaters (GUH) located in the assembly area will be suspended from the ceiling and if any seismic restraints will be utilized. (Sheet M101)

Response: suspension detail added to M001.

Sprinkler System Water Supply Availability and System Demand

18. Provide flow test information:
(1) Name of person who conducted the flow test
(2) Date and location of test

Note: The test must be less than six months old. If reliable or current information is not available, the engineer should supervise the performance of a new flow test and/or will verify the accuracy of a new flow test during preliminary design. A&E Board Standard of Care for fire sprinkler design.

Review Comments: Provide name of person who conducted flow test provided. (Sheet: FP001)

Response: please see general note on FP001 for fire hydrant location and date of test as well as the name of the person who conducted the flow test.

19. Identify the sprinkler system occupancy hazard classification for the facility or portion of the facility, as follows: Light and Ordinary (Groups 1 and 2), Extra (Groups 1 and 2), or Special Occupancy Hazards. NFPA 13 Chapter 5.

Note: Commercial kitchens, Storage spaces 50 sf or larger, janitor closets, and gas furnace rooms must be Ordinary Group 1. Large stack rooms in Libraries and Stage Areas must be Ordinary Group 2. Laboratories using chemicals must be classified Ordinary Group 1 (Class C or D laboratory) or Ordinary Group 2 (Class A or B laboratory). NFPA 45 6.2.1.1

Review Comments: Janitor Room No. 103 must be Ordinary Group 1. (Sheet: FP101)

Response: please see fire protection specifications, #6, on FP002. The occupancy hazard classification is light hazard, and the Janitors Room No. 103 is ordinary hazard group 1.

General Automatic Sprinkler Design Intent

20. Portable fire extinguishers must be provided. IFC Section 906 and 2010 edition of NFPA 10

Review Comments: Provide locations and spacing of portable fire extinguishers. (Sheet: G099)

Response: refer to G099 where fire extinguishers are placed at a spacing of every 75'.

Automatic Sprinkler System Site Plan (Underground)

21. Provide the following information on the Automatic Sprinkler System Design Intent site plan:
(1) The potable water supply shall be protected against backflow in accordance with the requirements of this section and the International Plumbing Code. IBC 903.3.5, IPC 608.16.4.

Review Comments: Provide protection against backflow into the potable water supply.

Response: please see P201 for backflow preventor location. Backflow preventor is located in the Janitor Room No. 103. Please see backflow preventor detail on same sheet.

22. Service mains must not run under buildings unless special precautions are taken. Provide details showing the method utilized, e.g., arched foundation walls, covered trenching, and isolation valves. NFPA 13 10.6.1, 10.6.2.

Review Comments: Provide method of protection for service main(s) located under building foundation.

Response: Fire line routed as designed is not under the building foundation. A note has been added on FP101 to ensure fire line is not routed under foundation. Please see fire riser detail on FP001 for thrust block and restrained joint system details.

Electrical Drawings

23. The emergency power system shall provide power for a duration of not less than 90 minutes and shall consist of storage batteries, unit equipment or an on-site generator. The installation of the emergency power system shall be in accordance with Section 2702. IBC1006.3.

Response: see drawing E101 for locations of emergency lighting fixtures containing battery packs.

Fire Alarm Design Intent

24. An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures in accordance with Sections 907.2.1 through 907.2.23 and provide occupant notification in accordance with Section 907.5 unless other requirements are provided by another section of this code. (IBC 907.2) A minimum of one manual fire alarm box shall be provided in an approved location to initiate a fire alarm signal for fire alarm systems employing automatic fire detectors or water flow detection devices. Where other sections of this code allow elimination of fire alarm boxes due to sprinklers, a single fire alarm box shall be installed.

Response: fire alarm devices added to E102; fire alarm details added to E201.

25. An emergency voice alarm communication system is required for the following:

- Group E occupancies including adult day care and child day care 907.2.3
- A covered mall building with a total floor area > 50,000 Ft². IBC 402.7.4
- High Rise Buildings. IBC 403.4.4
- Special amusement buildings. IBC 411.6
- Group A occupancies with an occupant load of 1,000 or more IBC 907.2.1.1

The systems shall be provided in accordance with Section 907.5.2.2.

Response: fire alarm devices added to E102; fire alarm details added to E201.

26. A fire alarm system control panel or annunciating device must be located in an area where trouble signals are monitored audibly and visually and which are distinctive from alarm signals. 2010 NFPA 72 10.12 and 10.16.

Response: fire alarm devices added to E102; fire alarm details added to E201.

27. A fire alarm zone indicator panel shall be located at grade level at the normal point of fire department access or at a constantly attended building security control center. IBC 907.6.3.1.

Response: fire alarm devices added to E102; fire alarm details added to E201.

28. Manual pull devices must be located not more than 5 ft. from the entrance to exterior exit doors and doors accessing stairway exits (see exceptions). IBC 907.4.2.

Response: fire alarm devices added to E102; fire alarm details added to E201.

29. Visible alarm notification appliances must be provided in public and common areas including 20% spare capacity provisions addition in employee work spaces. IBC 907.5.2.3.

Response: fire alarm devices added to E102; fire alarm details added to E201.

30. Show decibel (dBA) rating for all audible notification devices and candela (cd) rating for all visible notification devices on drawings next to each signaling device. IBC 107.1.1, 907.5.2.

Response: fire alarm devices added to E102; fire alarm details added to E201.

31. Audible device spacing must be compliant with 2010 NFPA 72 18.4, Table A.18.4.3.

Response: fire alarm devices added to E102; fire alarm details added to E201.

32. Visual device spacing must be compliant with 2010 NFPA 72 18.5, Tables 18.5.4.3.1(a) & 18.5.4.3.1(a).

Response: fire alarm devices added to E102; fire alarm details added to E201.

End of Addendum 01

Tyler Goza

From: Daniel Adams <dadams@clintontn.net>
Sent: Wednesday, November 22, 2023 1:08 PM
To: Tyler Goza
Subject: RE: 23030 I01 I02 2023-11-13 Clinton Fire Dept.

I have reviewed the plan and although there is not a fire access, I am okay with the plan as submitted based on the access from the parking lots and driveways surrounding it. Once the process has moved further along, I would like to meet on site to discuss some signage or fire lanes to ensure our FDC stays unobstructed. Other than that, I am good with the drawing as submitted.

Daniel

From: Tyler Goza <tgoza@dia-arch.com>
Sent: Wednesday, November 22, 2023 10:55 AM
To: Daniel Adams <dadams@clintontn.net>
Cc: File <File@dia-arch.com>; Greg Campbell <GCampbell@dia-arch.com>; Will Robinson <will@wrcivil.com>
Subject: RE: 23030 I01 I02 2023-11-13 Clinton Fire Dept.

Good morning Daniel,

Wanted to check back on your site plans review for the Anderson Co Sports Training Facility on ACHS campus? Let me know your thoughts and if you would like to meet on site to review Fire Dept access.

This is the last piece of the puzzle in order to get our permit from the State Fire Marshal's Office.

Thank you.

Sincerely,

Tyler Goza, AIA, CSI

Project Architect

Direct: 865.410.7431 Cell: 423.310.6350 Main: 865.637.8540

402 S. Gay Street, Ste 201 Knoxville, TN 37902 www.dia-arch.com

From: Tyler Goza
Sent: Monday, November 13, 2023 8:31 AM
To: 'Daniel Adams' <dadams@clintontn.net>
Cc: File <File@dia-arch.com>; Greg Campbell <GCampbell@dia-arch.com>; 'Will Robinson' <will@wrcivil.com>
Subject: 23030 I01 I02 2023-11-13 Clinton Fire Dept.

Daniel, were you able to review the site plans for the Anderson Co Sports Training Facility on ACHS campus? Let me know your thoughts and if you would like to meet on site to review Fire Dept access. Thank you.

Sincerely,

Tyler Goza, AIA, CSI

Project Architect

Direct: 865.410.7431 Cell: 423.310.6350 Main: 865.637.8540

402 S. Gay Street, Ste 201 Knoxville, TN 37902 www.dia-arch.com

From: Tyler Goza

Sent: Wednesday, November 8, 2023 2:28 PM

To: Daniel Adams <dadams@clintontn.net>

Cc: File <File@dia-arch.com>; Greg Campbell <GCampbell@dia-arch.com>; Will Robinson <will@wrcivil.com>

Subject: 23030 I01 I02 2023-11-08 Clinton Fire Dept.

Daniel, thanks for the call and your help on this project for Anderson County High School.

We're working on a new Sports Training Facility for ACHS on the school's campus (will be between the high school and CRCS, where the practice football field is now). We've submitted the drawings for permit review with the State Fire Marshal's Office. Two of their comments require coordination with the fire chief of the responding fire department – see below. I've attached the civil and architectural site plan for reference.

Please review the layout and site plans attached. Would like to get your input and ultimately approval so we can get these two comments resolved. Once we receive our stamped permit set from the State, we will also submit the plans to the Anderson Co Building Codes Dept.

Our reviewer at the SFMO is Jason D. Thompson Jason.D.Thompson2@tn.gov

Site Plans

WRA → 10. The fire apparatus road must extend to within 150 feet of all portions of the facility and all portions of the exterior walls of the first story of the building unless otherwise approved by the fire chief of the responding fire department. IFC 503.1.1 ASSUMING WE NEED TO EITHER VERIFY WHAT WE HAVE SHOWN WITH CITY OF CLINTON AND PROVIDE SOME VERIFICATION THAT WHAT WE HAVE IS ACCEPTABLE - WILL, LET ME KNOW IF YOU NEED ANYTHING FROM ME

WRA → 11. For new buildings or existing buildings with new or relocated fire department connections, the location of fire department connections shall be approved by the fire chief. IBC 912.2 ASSUMING WE WANT OUR FDC NEAR THE SPRINKLER ROOM; WILL PLEASE CONFIRM / VERIFY WITH FIRE DEPT.

The full set of documents that are currently under review can be downloaded [HERE](#)

Sincerely,

Tyler Goza, AIA, CSI

Project Architect

Direct: 865.410.7431 Cell: 423.310.6350 Main: 865.637.8540

402 S. Gay Street, Ste 201 Knoxville, TN 37902 www.dia-arch.com



Excellence through service and design

This email and any files transmitted with it are confidential and intended solely for the individual or entity to whom they are addressed. If you have received this email in error destroy it immediately.



COMcheck Software Version COMcheckWeb Envelope Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4a
 Project Type: New Construction
 Vertical Glazing / Wall Area: 0%

Construction Site: 160 Maverick Cir
 Clinton, Tennessee 37716
 Owner/Agent:
 Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 High Performance HVAC, 1.0 credit

Building Area	Floor Area
1-Sports Training Facility - heat only. (Exercise center) : Nonresidential	32400

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor ^(a)
Roof: Metal Building, Standing Seam, Liner System with Thermal Blocks (b), [Bldg. Use 1 - Sports Training Facility - heat only.]	32400	0.0	29.0	0.034	0.035
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed at girt), [Bldg. Use 1 - Sports Training Facility - heat only.]	21798	0.0	20.0	0.048	0.052
Window: Metal Frame with Thermal Break: Fixed, Perf. Type: Energy code default, Double Pane with Low-E, Clear, SHGC 0.70, [Bldg. Use 1 - Sports Training Facility - heat only.]	51	---	---	0.650	0.380
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Sports Training Facility - heat only.]	532	---	---	0.770	0.610
Floor: Concrete Floor (over unconditioned space), [Bldg. Use 1 - Sports Training Facility - heat only.]	726	---	10.0	0.076	0.076

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(b) Thermal spacer block with minimum R-3.5 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Project Notes

Envelope PASSES: Design 0.1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

New 180' x 180' pre-engineered metal building sports practice facility for Anderson County High School.



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Walkway < 10 feet wide	720 ft of	0.7	Yes	504
Total Tradable Watts (a) =				504
Total Allowed Watts =				504
Total Allowed Supplemental Watts (b) =				600

- (a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
- (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Walkway < 10 feet wide (720 ft of walkway length): Tradable Wattage				
LED: B: wall pack: LED Roadway-Parking Unit 130W:	1	8	120	960
Total Tradable Proposed Watts =				960

Exterior Lighting PASSES: Design 13% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer

Name - Title

Signature

11-10-23

Date





Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-School/university	32400	0.99	32076
Total Allowed Watts =			32076

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-School/university				
LED: A: high bay: LED Other Fixture Unit 125W:	1	81	309	25029
LED: C: 2x4: LED Panel 36W:	1	3	35	105
LED: D: 2' strip: LED Linear 22W:	1	1	24	24
Total Proposed Watts =				25158

Interior Lighting PASSES: Design 22% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer
 Name - Title

Signature

11-10-23
 Date





COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4a
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Mechanical Systems List

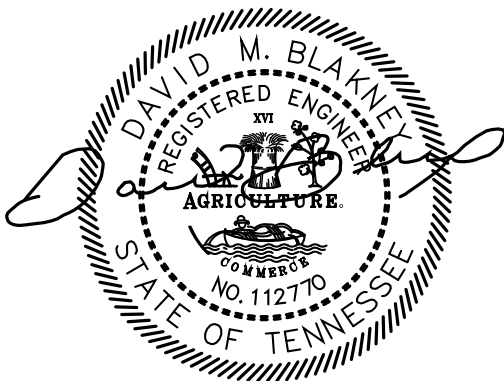
Quantity System Type & Description

- 8 GUH (Unknown w/ PerimeterSystem):
 Heating: 1 each - Unit Heater, Gas, Capacity = 250 kBtu/h
 Proposed Efficiency = 83.00% Ec, Required Efficiency: 80.00 % Ec
 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 4270 CFM, 0.8 motor nameplate hp
- 1 Water Heater:
 Electric Storage Water Heater, Capacity: 30 gallons
 No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

David Blakney - President _____ 11-09-23
 Name - Title _____ Signature _____ Date _____





SHEET INDEX						
SHEET #	SHEET NAME	SHEET ISSUE DATE	CURRENT REV. NO.	REV. DESCRIPTION	REV. ISSUED BY	CURRENT REV. DATE
G000	COVER	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
G009	PROJECT CODE REQUIREMENTS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
G100	COMCHECK	2023-11-10	P1	PERMIT REV. PERMITTING		2023-11-10
G199	LEGENDS & ABBREVIATIONS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
C101	SITE DEMOLITION PLAN	2023-10-17				
C102	SITE LAYOUT PLAN	2023-10-17				
C103	EROSION CONTROL - 1	2023-10-17				
C104	EROSION CONTROL - 2	2023-10-17				
C105	SITE GRADING PLAN	2023-10-17				
C106	SITE UTILITY PLAN	2023-10-17				
C201	SITE DETAILS - 1	2023-10-17				
C202	SITE DETAILS - 2	2023-10-17				
S001	STRUCTURAL NOTES	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
S101	FOUNDATION PLAN	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
S102	SECTIONS AND DETAILS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
AS101	ARCHITECTURAL SITE PLAN AND DETAILS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A101	FIRST FLOOR PLAN ENLARGED PLANS AND ACCESSIBLE RESTROOM REQUIREMENTS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A102	FIRST FLOOR RCP	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A111	ROOF PLAN & DETAILS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A201	EXTERIOR ELEVATIONS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A301	BUILDING SECTIONS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A311	WALL SECTIONS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A321	PLAN AND SECTION DETAILS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A500	OPENING SCHEDULES AND DETAILS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A600	3D DRAWINGS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
A700	INTERIOR FINISH SCHEDULE	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
FR001	PRELIMINARY HYDRAULIC CALCULATIONS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
FR002	DETAILS & SPECIFICATIONS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
FP101	FIRST FLOOR PLAN - FIRE PROTECTION	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
P101	FIRST FLOOR PLAN - WASTE	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
P201	FIRST FLOOR PLAN - WATER AND GAS	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
M001	SCHEDULES	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
M101	FIRST FLOOR PLAN - HVAC	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
E101	FLOOR PLAN - LIGHTING	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
E102	FLOOR PLAN - ELECTRICAL	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
E201	LEGENDS AND SCHEDULES	2023-10-17	P1	PERMIT REV. PERMITTING		2023-11-10
R101	RESOURCE	2023-09-05	P1	PERMIT REV. PERMITTING		2023-11-10

PROJECT TEAM / CONSULTANTS

CLIENT:
ANDERSON COUNTY SCHOOLS
 PHONE : (865) 451-4205
 180 MAVERICK CIRCLE
 CLINTON, TENNESSEE 37716
 CONTACT: CLAY MCKAMEY

ARCHITECTURAL:
DESIGN INNOVATION ARCHITECTS, INC.
 PHONE : (865) 637-8540
 402 S GAY STREET, SUITE # 201
 KNOXVILLE, TN 37902
 CONTACT: GREG CAMPBELL

CIVIL ENGINEER:
WILL ROBINSON & ASSOCIATES
 PHONE : (865) 386-4200
 1248 NORTH SHOREWOOD LN
 CARYVILLE, TN 37714
 CONTACT: WILL ROBINSON

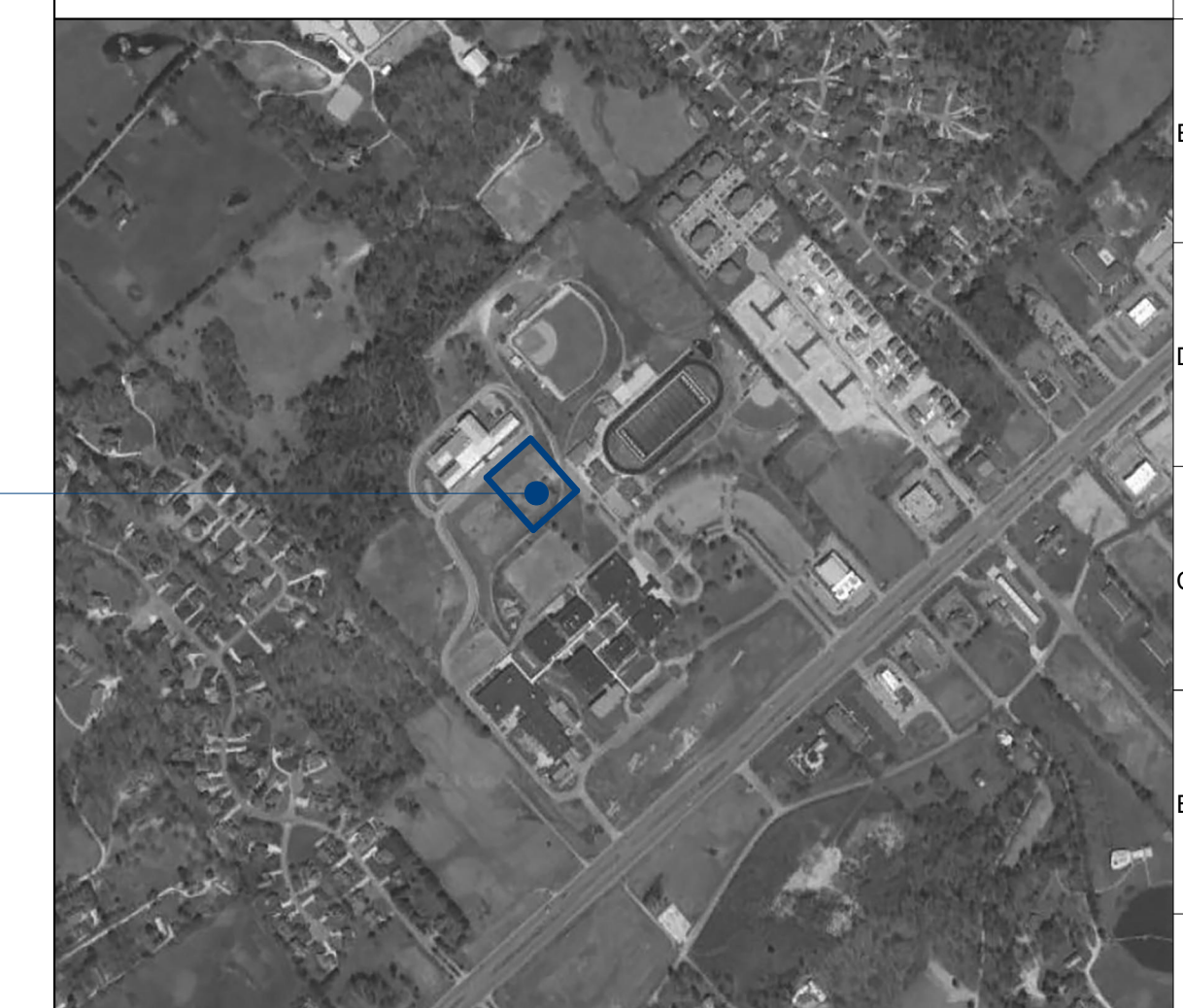
STRUCTURAL ENGINEER:
FE DESIGN AND ENGINEERING
 PHONE : (865) 216-8960
 5105 CUSTIS LN
 KNOXVILLE, TN 37920
 CONTACT: MARY FRENCH

MECHANICAL AND PLUMBING:
BEDINGER CONSULTING ENGINEERS
 PHONE : (865) 637-8339
 5641 MERCHANTS CENTER BLVD, SUITE A104
 KNOXVILLE, TN 37912
 CONTACT: DAVID BLAKEY

ELECTRICAL:
VREELAND ENGINEERS
 PHONE : (865) 745-4402
 3107 SUTHERLAND AVENUE, P.O. BOX 10648
 KNOXVILLE, TN 37939
 CONTACT: AARON LOVE

TFM # 03970-F

PROJECT SITE



A04 PROJECT SITE MAP / LOCATION
 NOT TO SCALE

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST TO THE ORIGINAL DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

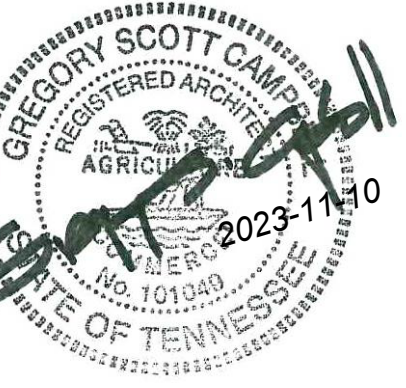
SHEET DESCRIPTION
 COVER

G000
 PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN



DIA
 Design Innovation
 ARCHITECTS + INTERIORS + PLANNING
 402 S. Gay Street, Suite 201, Knoxville, TN 37902
 ph 865.637.8540 / fx 865.544.3940
 www.dia-arch.com



TFM # 03970-F

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4
 Project Type: New Construction
 Vertical Glazing / Wall Area: 0%

Construction Site: 150 Maverick Ct, Clinton, Tennessee 37716
 Owner/Agent: Designer/Contractor:

Additional Efficiency Packages(s)
 Credits: 1.0 Required, 1.0 Proposed
 High Performance HVAC, 1.0 credit

Building Area	Floor Area
1. Sports Training Facility - heat only (Exterior canopy) - heat only 1	32400
Nonresidential	

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof: Metal Building, Standing Seam, Liner System with Thermal Break (B), (Bldg. Use 1 - Sports Training Facility - heat only 1)	32400	0.0	20.0	0.034	0.035
Ext. Wall: Metal Building Wall, Single Layer Mineral Fiber (compressed air gtl), (Bldg. Use 1 - Sports Training Facility - heat only 1)	21768	0.0	20.0	0.046	0.042
Window: Metal Frame with Thermal Break, Fixed, (Int. Type: Energy Code Default), (Double Pane with Low-E, Clear, Laminated), (Bldg. Use 1 - Sports Training Facility - heat only 1)	91	-	-	0.650	0.360
Door: Insulated Metal, Sliding, (Bldg. Use 1 - Sports Training Facility - heat only 1)	532	-	-	0.770	0.810
Floor: Concrete Floor (over unconditioned space), (Bldg. Use 1 - Sports Training Facility - heat only 1)	726	-	10.0	0.076	0.076

Project Notes
 (a) Budget Factors are used for software baseline calculations ONLY, and are not code requirements.
 (b) Thermal spacer block with minimum R-3.3 must be installed above the purlin/batt, and the roof deck secured to the purlins.

Envelope Compliance Statement
 Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: 23030_ACHS Sports Training Facility
 Data Filename: Report date: 11/30/23
 Page: 1 of 15

TYLER GOZA
 Signature
 2023-11-30
 Date

New 180' x 180' pre-engineered metal building sports practice facility for Anderson County High School.

GREGORY SCOTT OATIS
 REGISTERED ARCHITECT
 No. 23030
 State of Tennessee
 Expires 12/31/2023

Project Title: 23030_ACHS Sports Training Facility
 Data Filename: Report date: 11/30/23
 Page: 1 of 15

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Packages(s)
 Credits: 1.0 Required, 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Area Category	A	B	C	D	E
1.School/University	32400	6.99	3076		
Total Allowed Watts =			32076		

Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E
1.School/University LED A: High Bay LED Over Fixture Unit 125W	1	81	309	25029	
LED C: 2x4 LED Panel 50w	1	3	15	105	
LED D: 2' strip LED Linear 22w	1	24	24	24	
Total Proposed Watts =				25158	

Interior Lighting Compliance Statement
 Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer
 Name: Title: Signature: Date: 11-10-23

Project Title: ACHS Sports Training Facility
 Data Filename: Report date: 11/30/23

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: ACHS Sports Training Facility
 Project Type: New Construction
 Exterior Lighting Zone: Z: Neighborhood business district (L2Z)

Construction Site: Owner/Agent: Designer/Contractor:

Area/Surface Category	A	B	C	D	E
Walkway < 10 feet wide	720 ft. of	5.7	Yes	504	
Total Tradeable Watts (a) =				504	
Total Allowed Watts =				600	

(a) Wattage tradeoffs are only allowed between tradeable areas/surfaces.
 (b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradeable and tradeable areas/surfaces.

Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E
Walkway < 10 feet wide (720 ft. of walkway length), Tradeable Wattage	1	8	120	960	
LED: B: wall pack LED Roadway/Fixture Unit 120w					960
Total Tradeable Proposed Watts =					960

Exterior Lighting Compliance Statement
 Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Aaron Love - Engineer
 Name: Title: Signature: Date: 11-10-23

Project Title: ACHS Sports Training Facility
 Data Filename: Report date: 11/30/23

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information
 Energy Code: 2012 IECC
 Project Title: 23030_ACHS Sports Training Facility
 Location: Clinton, Tennessee
 Climate Zone: 4
 Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Packages(s)
 Credits: 1.0 Required, 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Mechanical Systems List
 1. Water Heater:
 Electric Storage Water Heater, Capacity: 30 gallons
 No minimum efficiency requirement applies.

Mechanical Compliance Statement
 Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

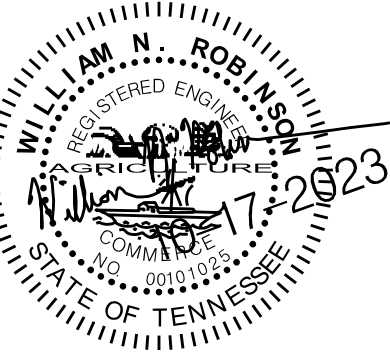
David Babaw - President
 Name: Title: Signature: Date: 11-09-23

Project Title: 23030_ACHS Sports Training Facility
 Data Filename: Report date: 11/09/23
 Page: 1 of 8

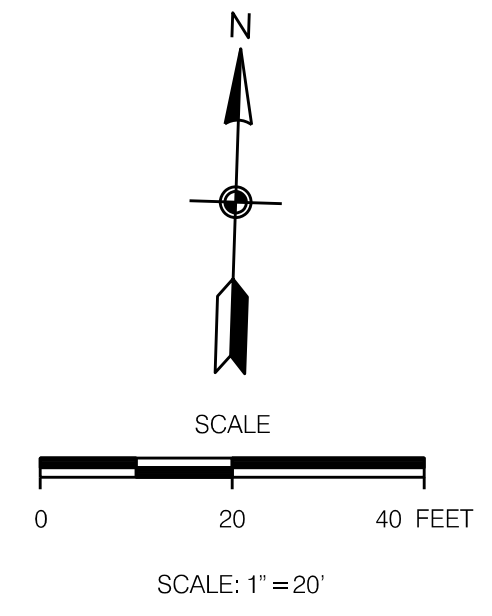
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. AND IS NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DESIGN INNOVATION ARCHITECTS, INC. DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
 COMCHECK



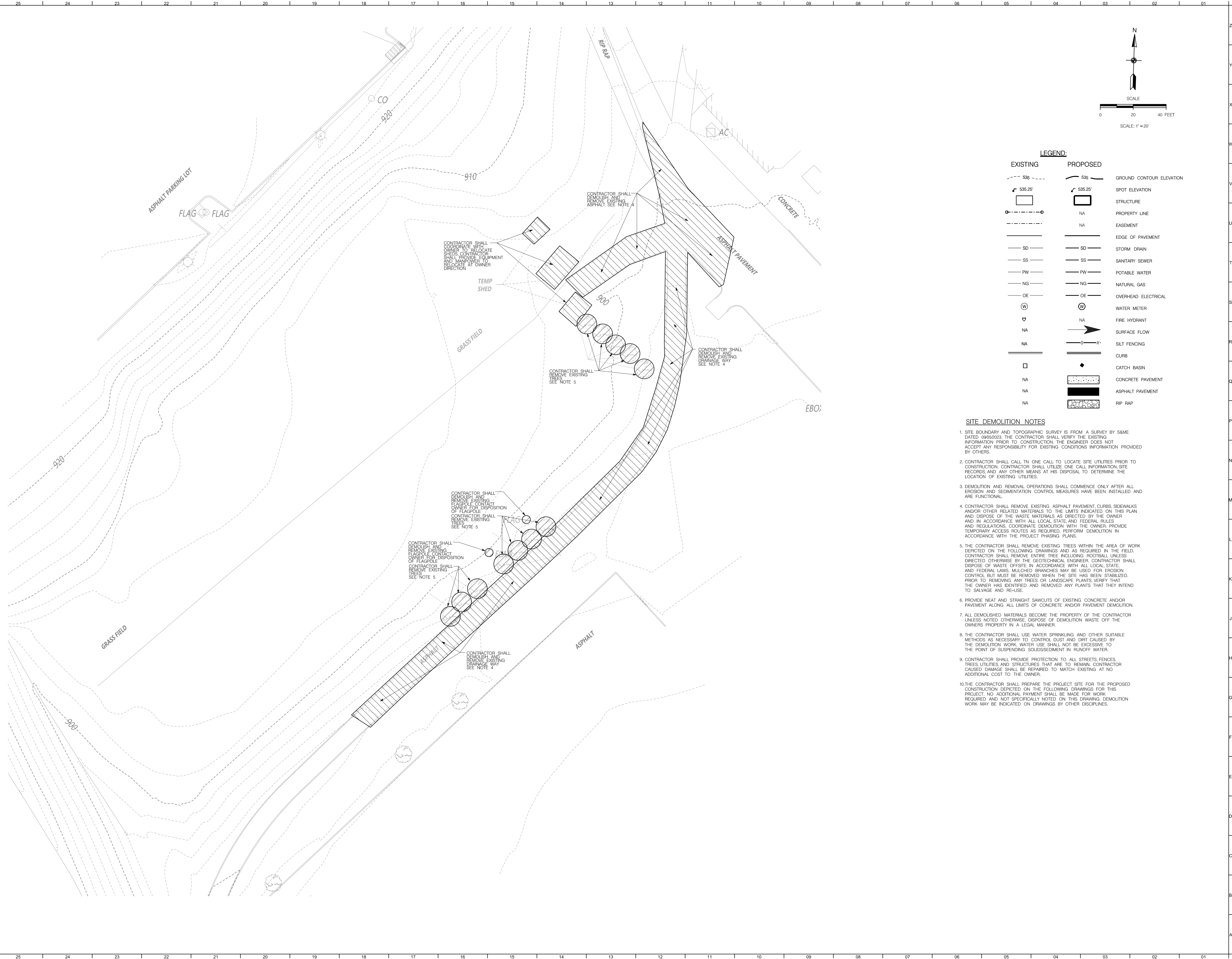
A NEW PROJECT FOR:
**ANDERSON COUNTY SPORTS
TRAINING FACILITY**
ANDERSON COUNTY, TN



EXISTING		PROPOSED	
- 535 -	GROUND CONTOUR ELEVATION	- 535 -	GROUND CONTOUR ELEVATION
535.25'	SPOT ELEVATION	535.25'	SPOT ELEVATION
[Symbol]	STRUCTURE	[Symbol]	STRUCTURE
- - -	PROPERTY LINE	NA	PROPERTY LINE
- - -	EASEMENT	NA	EASEMENT
- - -	EDGE OF PAVEMENT	- - -	EDGE OF PAVEMENT
- SD -	STORM DRAIN	- SD -	STORM DRAIN
- SS -	SANITARY SEWER	- SS -	SANITARY SEWER
- PW -	POTABLE WATER	- PW -	POTABLE WATER
- NG -	NATURAL GAS	- NG -	NATURAL GAS
- OE -	OVERHEAD ELECTRICAL	- OE -	OVERHEAD ELECTRICAL
⊙	WATER METER	⊙	WATER METER
☐	FIRE HYDRANT	☐	FIRE HYDRANT
NA	SURFACE FLOW	- S -	SURFACE FLOW
NA	SILT FENCING	- S -	SILT FENCING
- - -	CURB	- - -	CURB
☐	CATCH BASIN	◆	CATCH BASIN
NA	CONCRETE PAVEMENT	[Symbol]	CONCRETE PAVEMENT
NA	ASPHALT PAVEMENT	[Symbol]	ASPHALT PAVEMENT
NA	RIP RAP	[Symbol]	RIP RAP

SITE DEMOLITION NOTES

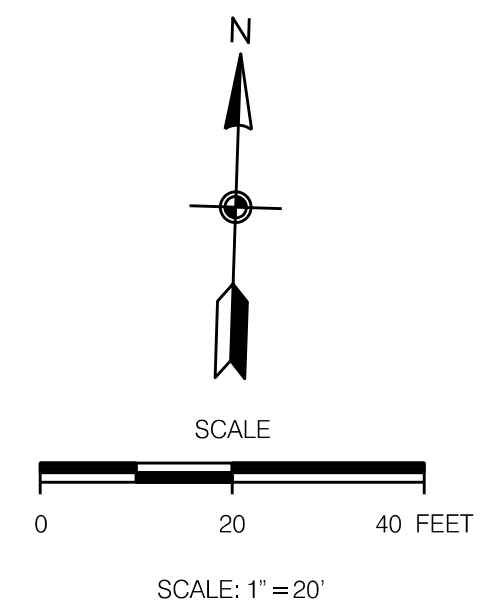
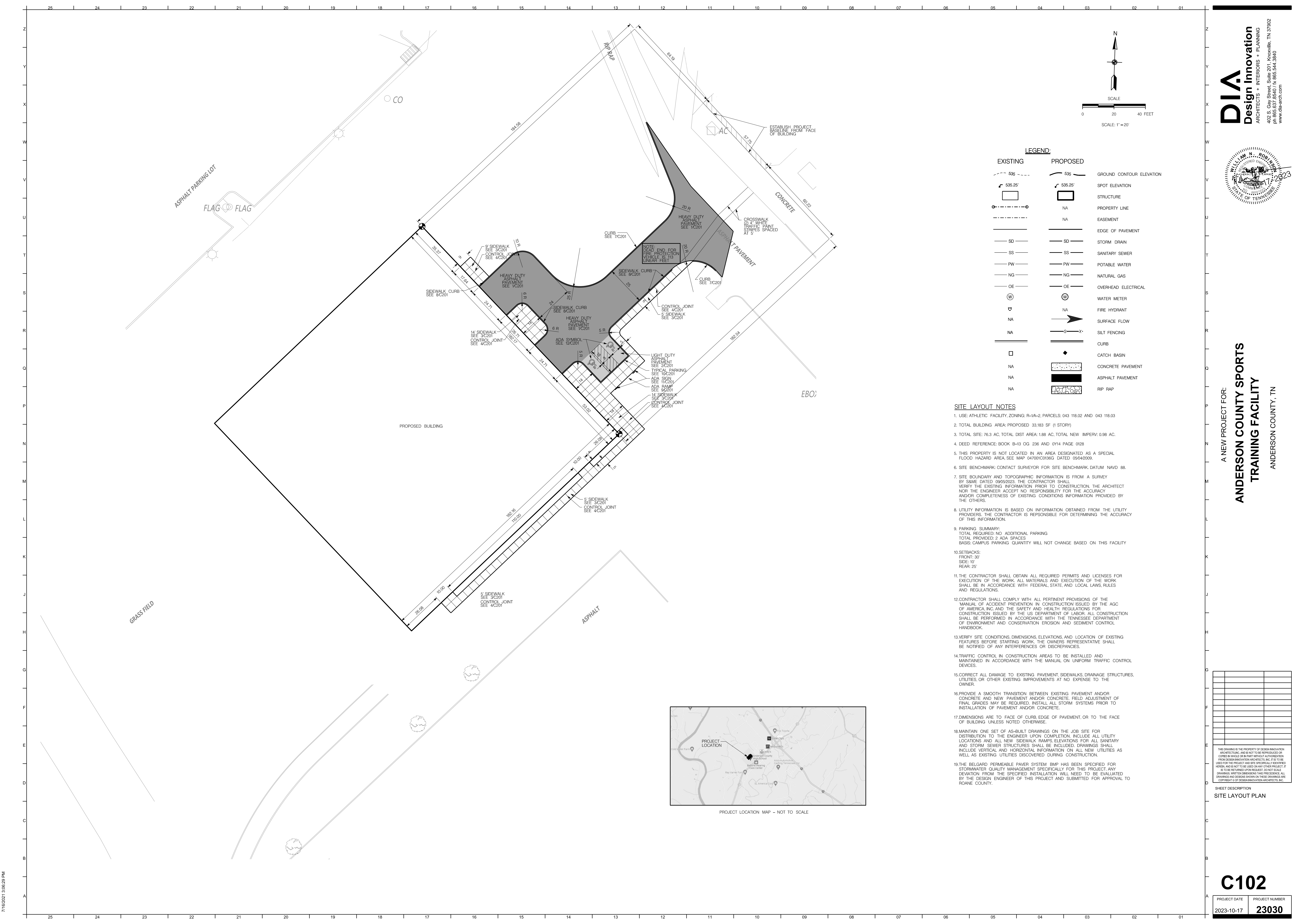
1. SITE BOUNDARY AND TOPOGRAPHIC SURVEY IS FROM A SURVEY BY S&ME DATED 09/05/2023. THE CONTRACTOR SHALL VERIFY THE EXISTING INFORMATION PRIOR TO CONSTRUCTION. THE ENGINEER DOES NOT ACCEPT ANY RESPONSIBILITY FOR EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
2. CONTRACTOR SHALL CALL TN ONE CALL TO LOCATE SITE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL UTILIZE ONE CALL INFORMATION, SITE RECORDS, AND ANY OTHER MEANS AT HIS DISPOSAL TO DETERMINE THE LOCATION OF EXISTING UTILITIES.
3. DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES HAVE BEEN INSTALLED AND ARE FUNCTIONAL.
4. CONTRACTOR SHALL REMOVE EXISTING ASPHALT PAVEMENT, CURBS, SIDEWALKS AND/OR OTHER RELATED MATERIALS TO THE LIMITS INDICATED ON THIS PLAN AND DISPOSE OF THE WASTE MATERIALS AS DIRECTED BY THE OWNER AND IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL RULES AND REGULATIONS. COORDINATE DEMOLITION WITH THE OWNER. PROVIDE TEMPORARY ACCESS ROUTES AS REQUIRED. PERFORM DEMOLITION IN ACCORDANCE WITH THE PROJECT PHASING PLANS.
5. THE CONTRACTOR SHALL REMOVE EXISTING TREES WITHIN THE AREA OF WORK DEPICTED ON THE FOLLOWING DRAWINGS AND AS REQUIRED IN THE FIELD. CONTRACTOR SHALL REMOVE ENTIRE TREE INCLUDING ROOTBALL UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER. CONTRACTOR SHALL DISPOSE OF WASTE OFFSITE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS. MULCHED BRANCHES MAY BE USED FOR EROSION CONTROL BUT MUST BE REMOVED WHEN THE SITE HAS BEEN STABILIZED. PRIOR TO REMOVING ANY TREES OR LANDSCAPE PLANTS, VERIFY THAT THE OWNER HAS IDENTIFIED AND REMOVED ANY PLANTS THAT THEY INTEND TO SALVAGE AND RE-USE.
6. PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING CONCRETE AND/OR PAVEMENT ALONG ALL LIMITS OF CONCRETE AND/OR PAVEMENT DEMOLITION.
7. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE. DISPOSE OF DEMOLITION WASTE OFF THE OWNERS PROPERTY IN A LEGAL MANNER.
8. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK. WATER USE SHALL NOT BE EXCESSIVE TO THE POINT OF SUSPENDING SOLIDS/SEDIMENT IN RUNOFF WATER.
9. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES, AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR CAUSED DAMAGE SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL PREPARE THE PROJECT SITE FOR THE PROPOSED CONSTRUCTION DEPICTED ON THE FOLLOWING DRAWINGS FOR THIS PROJECT. NO ADDITIONAL PAYMENT SHALL BE MADE FOR WORK REQUIRED AND NOT SPECIFICALLY NOTED ON THIS DRAWING. DEMOLITION WORK MAY BE INDICATED ON DRAWINGS BY OTHER DISCIPLINES.



THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IF IT IS RETURNED UNREQUESTED, IT SHALL BE CONSIDERED AS A GIFT. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER DIMENSIONS SHOWN ON THESE DRAWINGS. ALL DIMENSIONS AND DISTANCES SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
SITE DEMOLITION PLAN

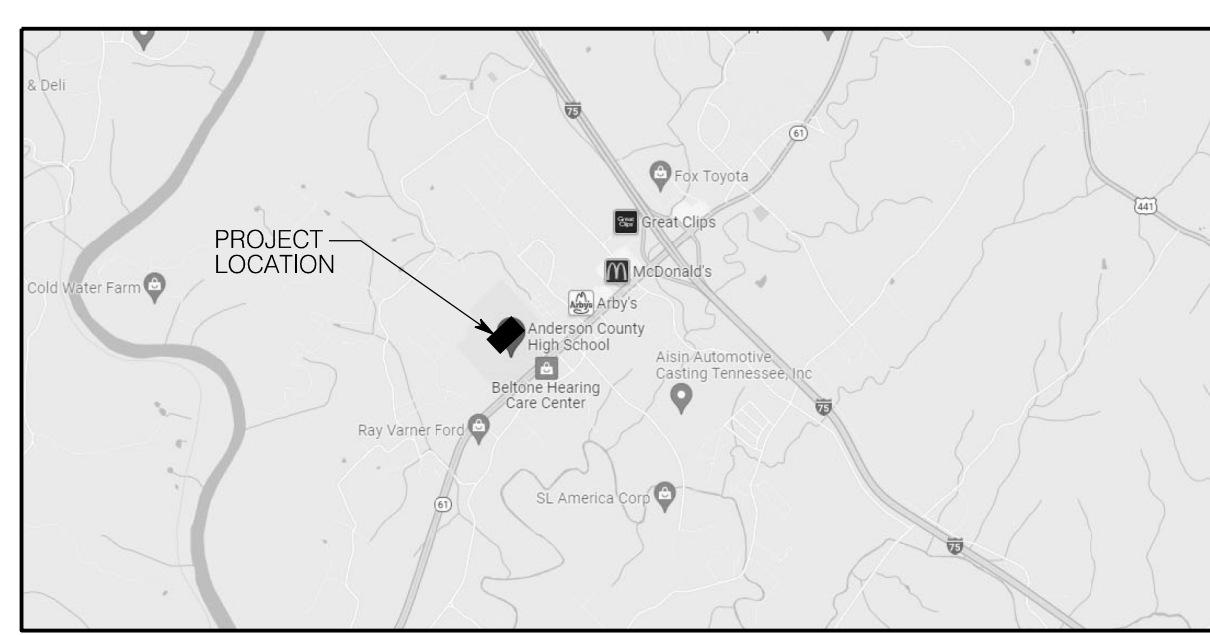
C101
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030



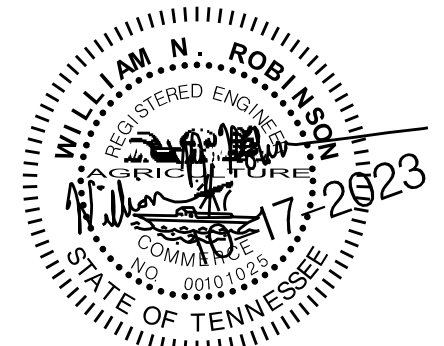
LEGEND:		
EXISTING	PROPOSED	
(dashed line)	(solid line)	GROUND CONTOUR ELEVATION
(dot with number)	(dot with number)	SPOT ELEVATION
(rectangle)	(rectangle)	STRUCTURE
(dashed line)	(dashed line)	PROPERTY LINE
(dotted line)	(dotted line)	EASEMENT
(solid line)	(solid line)	EDGE OF PAVEMENT
(SD)	(SD)	STORM DRAIN
(SS)	(SS)	SANITARY SEWER
(PW)	(PW)	POTABLE WATER
(NG)	(NG)	NATURAL GAS
(OE)	(OE)	OVERHEAD ELECTRICAL
(W)	(W)	WATER METER
(FH)	(FH)	FIRE HYDRANT
(NA)	(arrow)	SURFACE FLOW
(NA)	(S-X)	SILT FENCING
(NA)	(thick line)	CURB
(square)	(diamond)	CATCH BASIN
(NA)	(dotted pattern)	CONCRETE PAVEMENT
(NA)	(hatched pattern)	ASPHALT PAVEMENT
(NA)	(stippled pattern)	RIE RRP

SITE LAYOUT NOTES

- USE: ATHLETIC FACILITY, ZONING: R-1A-2, PARCELS: 043 118.02 AND 043 118.03
- TOTAL BUILDING AREA: PROPOSED 33,183 SF (1 STORY)
- TOTAL SITE: 76.3 AC, TOTAL DIST AREA: 1.88 AC, TOTAL NEW IMPERV: 0.98 AC
- DEED REFERENCE: BOOK B-13 OG 236 AND 014 PAGE 0128
- THIS PROPERTY IS NOT LOCATED IN AN AREA DESIGNATED AS A SPECIAL FLOOD HAZARD AREA, SEE MAP 047001C0136G DATED 05042009.
- SITE BENCHMARK: CONTACT SURVEYOR FOR SITE BENCHMARK DATUM NAVD 88.
- SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS FROM A SURVEY BY S&ME DATED 09/05/2023, THE CONTRACTOR SHALL VERIFY THE EXISTING INFORMATION PRIOR TO CONSTRUCTION, THE ARCHITECT NOR THE ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY THE OTHERS.
- UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS, THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
- PARKING SUMMARY:**
TOTAL REQUIRED: NO ADDITIONAL PARKING
TOTAL PROVIDED: 2 ADA SPACES
BASIS: CAMPUS PARKING QUANTITY WILL NOT CHANGE BASED ON THIS FACILITY
- SETBACKS:**
FRONT: 30'
SIDE: 10'
REAR: 25'
- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES FOR EXECUTION OF THE WORK, ALL MATERIALS AND EXECUTION OF THE WORK SHALL BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS.
- CONTRACTOR SHALL COMPLY WITH ALL PERTINENT PROVISIONS OF THE MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION ISSUED BY THE AGC OF AMERICA, INC. AND THE SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION ISSUED BY THE U.S. DEPARTMENT OF LABOR. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION EROSION AND SEDIMENT CONTROL HANDBOOK.
- VERIFY SITE CONDITIONS, DIMENSIONS, ELEVATIONS AND LOCATION OF EXISTING FEATURES BEFORE STARTING WORK, THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED OF ANY INTERFERENCES OR DISCREPANCIES.
- TRAFFIC CONTROL IN CONSTRUCTION AREAS TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- CORRECT ALL DAMAGE TO EXISTING PAVEMENT, SIDEWALKS, DRAINAGE STRUCTURES, UTILITIES OR OTHER EXISTING IMPROVEMENTS AT NO EXPENSE TO THE OWNER.
- PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING PAVEMENT AND/OR CONCRETE AND NEW PAVEMENT AND/OR CONCRETE, FIELD ADJUSTMENT OF FINAL GRADES MAY BE REQUIRED, INSTALL ALL STORM SYSTEMS PRIOR TO INSTALLATION OF PAVEMENT AND/OR CONCRETE.
- DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, OR TO THE FACE OF BUILDING UNLESS NOTED OTHERWISE.
- MAINTAIN ONE SET OF AS-BUILT DRAWINGS ON THE JOB SITE FOR DISTRIBUTION TO THE ENGINEER UPON COMPLETION, INCLUDE ALL UTILITY LOCATIONS AND ALL NEW SIDEWALK RAMP ELEVATIONS FOR ALL SANITARY AND STORM SEWER STRUCTURES SHALL BE INCLUDED, DRAWINGS SHALL INCLUDE VERTICAL AND HORIZONTAL INFORMATION ON ALL NEW UTILITIES AS WELL AS EXISTING UTILITIES DISCOVERED DURING CONSTRUCTION.
- THE BELGARD PERMEABLE PAVING SYSTEM BMP HAS BEEN SPECIFIED FOR STORMWATER QUALITY MANAGEMENT SPECIFICALLY FOR THIS PROJECT, ANY DEVIATION FROM THE SPECIFIED INSTALLATION WILL NEED TO BE EVALUATED BY THE DESIGN ENGINEER OF THIS PROJECT AND SUBMITTED FOR APPROVAL TO ROANE COUNTY.



PROJECT LOCATION MAP - NOT TO SCALE



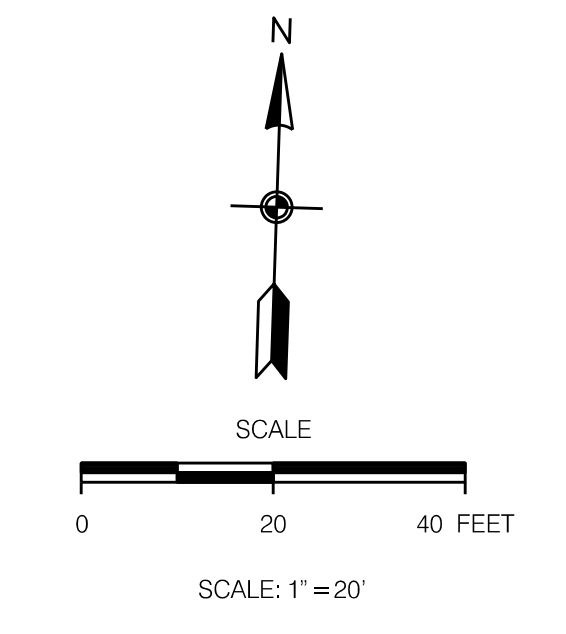
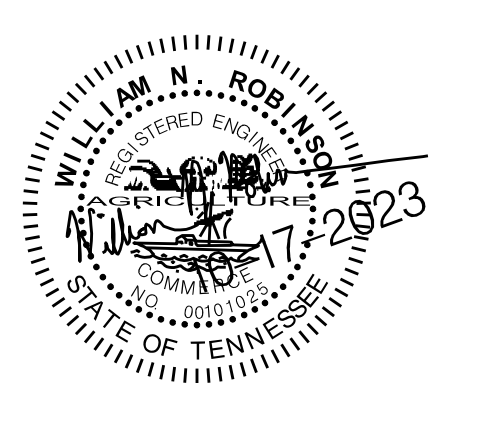
A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	DESCRIPTION

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. ANY USES NOT TO BE USED OR ANY OTHER PROJECTS IT IS TO BE RETURNED TO THE DESIGNER UPON REQUEST. SCALE: DRAWINGS, WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DIMENSIONS AND DISTANCES SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
SITE LAYOUT PLAN

C102



LEGEND:

(dashed line)	EXISTING 535	(solid line)	PROPOSED 535	GROUND CONTOUR ELEVATION
(circle with '535.25')	535.25'	(circle with '535.25')	535.25'	SPOT ELEVATION
(rectangle)	STRUCTURE	(rectangle)	STRUCTURE	STRUCTURE
(dashed line)	PROPERTY LINE	(dashed line)	PROPERTY LINE	PROPERTY LINE
(dashed line)	EASEMENT	(dashed line)	EASEMENT	EASEMENT
(line with 'SD')	EDGE OF PAVEMENT	(line with 'SD')	EDGE OF PAVEMENT	EDGE OF PAVEMENT
(line with 'SD')	STORM DRAIN	(line with 'SD')	STORM DRAIN	STORM DRAIN
(line with 'SS')	SANITARY SEWER	(line with 'SS')	SANITARY SEWER	SANITARY SEWER
(line with 'PW')	POTABLE WATER	(line with 'PW')	POTABLE WATER	POTABLE WATER
(line with 'NG')	NATURAL GAS	(line with 'NG')	NATURAL GAS	NATURAL GAS
(line with 'OE')	OVERHEAD ELECTRICAL	(line with 'OE')	OVERHEAD ELECTRICAL	OVERHEAD ELECTRICAL
(circle with 'W')	WATER METER	(circle with 'W')	WATER METER	WATER METER
(square with 'NA')	FIRE HYDRANT	(square with 'NA')	FIRE HYDRANT	FIRE HYDRANT
(arrow)	SURFACE FLOW	(arrow)	SURFACE FLOW	SURFACE FLOW
(line with 'S')	SILT FENCING	(line with 'S')	SILT FENCING	SILT FENCING
(line)	CURB	(line)	CURB	CURB
(diamond)	CATCH BASIN	(diamond)	CATCH BASIN	CATCH BASIN
(stippled pattern)	CONCRETE PAVEMENT	(stippled pattern)	CONCRETE PAVEMENT	CONCRETE PAVEMENT
(solid black)	ASPHALT PAVEMENT	(solid black)	ASPHALT PAVEMENT	ASPHALT PAVEMENT
(rippled pattern)	RIP RAP	(rippled pattern)	RIP RAP	RIP RAP

SITE GRADING NOTES

- SITE BENCHMARK; CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD83.
- SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY SAME DATED 08/09/2023. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
- UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
- CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
- THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/- 2% OF OPTIMUM.
- THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
- ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S-71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
- NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
- APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
- APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
- EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN, REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.
- SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE LOCK IN OF EROSION MAT.
- THIS IS A PRIORITY CONSTRUCTION ACTIVITY.
- ADEQUATE DRAINAGE EROSION AND SEDIMENT CONTROL MEASURES BEST MANAGEMENT PRACTICES AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR OR PROPERTY OWNERS FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
- CONTRACTOR SHALL STORE CHEMICALS AND SOLUBLE MATERIALS IN AN ENCLOSED, WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
- PLACEMENT OF PORTA-POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
- NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ON SITE.
- CONSTRUCTION MATERIALS WILL BE STAGED IN THE PAVED AREA SOUTH OF THE PROJECT. FOR TRASH ON THE PROJECT, PROVIDE A TRASH RECEPTACLE WITH A LID, MAINTAIN THE MATERIAL STAGING AREA IN AN NEAT AND ORDERLY MANNER.
- CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE ANDERSON COUNTY SCHOOLS SITE INSPECTOR.

- CONSTRUCTION SEQUENCE OF EVENTS:**
- INSTALL EROSION CONTROL MEASURES
 - SITE CLEARING AND GRUBBING
 - SITE DEMOLITION
 - SITE ROUGH GRADING
 - TEMPORARY SEEDING
 - FOUNDATION CONSTRUCTION
 - SLAB CONSTRUCTION
 - WALL/ROOF SYSTEM CONSTRUCTION
 - EXTERIOR/INTERIOR FINISH
 - PARKING LOT PAVING
 - FINISH GRADING
 - PERMANENT SEEDING/LANDSCAPING
 - SITE CLOSEOUT/LONG TERM MAINTENANCE

TEMPORARY SEEDING RECOMMENDATION FOR LATER WINTER AND EARLY SPRING

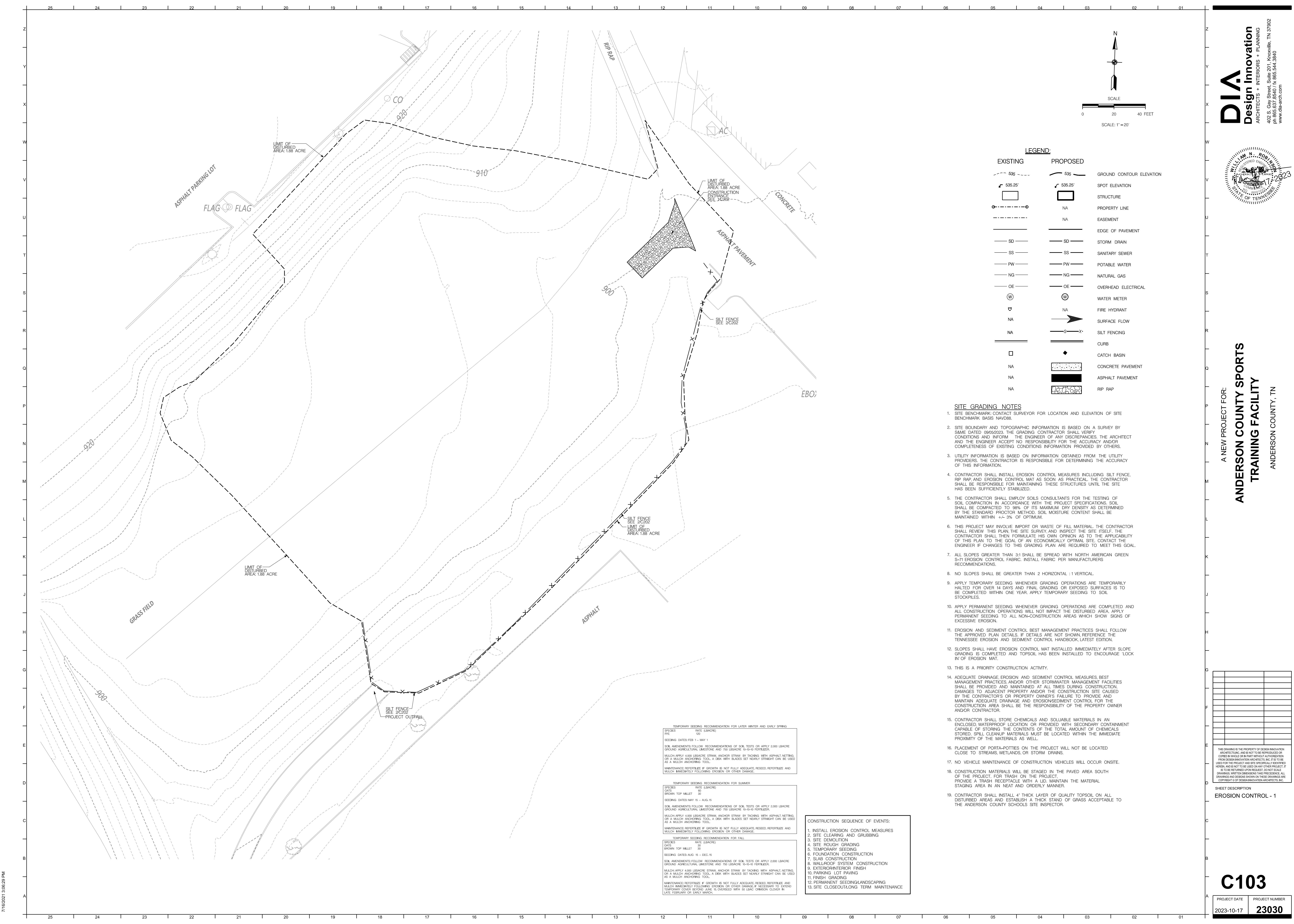
(SPECIES)	RATE (LB/ACRE)
PRY	100
SEEDING DATES: FEB 1 - MAY 1	
SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH APPLY 4,000 LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE: REPERFILL IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REPERFILL AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.	

TEMPORARY SEEDING RECOMMENDATION FOR SUMMER

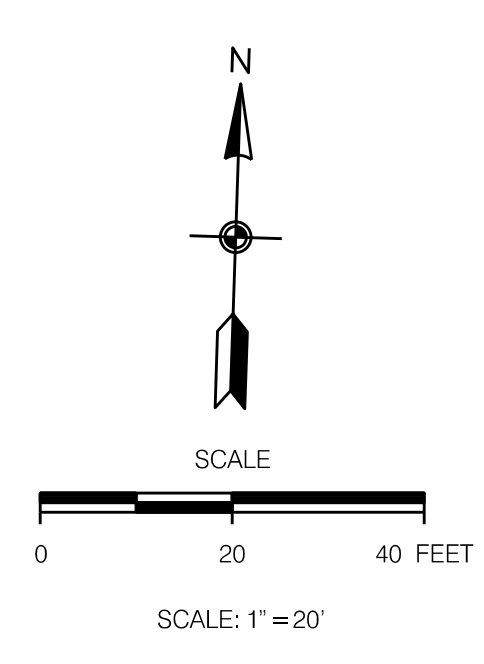
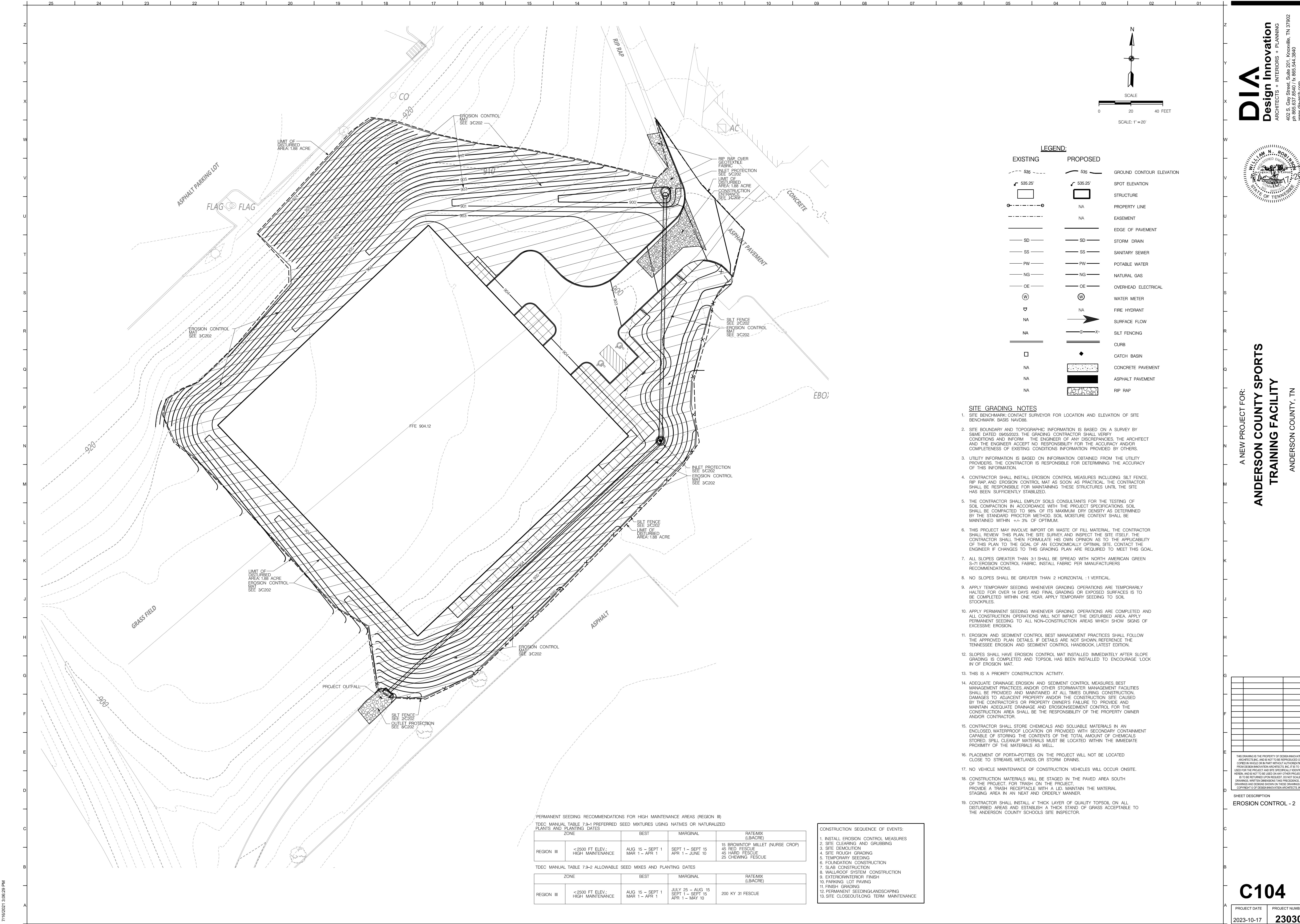
(SPECIES)	RATE (LB/ACRE)
BROWN TOP MILLET	30
SEEDING DATES: MAY 15 - AUG 15	
SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH APPLY 4,000 LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE: REPERFILL IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REPERFILL AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.	

TEMPORARY SEEDING RECOMMENDATION FOR FALL

(SPECIES)	RATE (LB/ACRE)
BROWN TOP MILLET	30
SEEDING DATES: AUG 15 - DEC 15	
SOIL AMENDMENTS FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 2,000 LB/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH APPLY 4,000 LB/ACRE STRAW, ANCHOR STRAW BY TACKING WITH ASPHALT NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.	
MAINTENANCE: REPERFILL IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REPERFILL AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE. IF NECESSARY TO EXTEND TEMPORARY COVER BEYOND APRIL 15, COVERED WITH 10 LB/AC OMBLON COVER IN LATE FEBRUARY OR EARLY MARCH.	



7/16/2024 3:06:29 PM



LEGEND:

EXISTING	PROPOSED	DESCRIPTION
- - - 536	- - - 536	GROUND CONTOUR ELEVATION
- - - 535.25'	- - - 535.25'	SPOT ELEVATION
[Outline]	[Outline]	STRUCTURE
- - -	- - -	PROPERTY LINE
- - -	- - -	EASEMENT
- - -	- - -	EDGE OF PAVEMENT
- SD -	- SD -	STORM DRAIN
- SS -	- SS -	SANITARY SEWER
- PW -	- PW -	POTABLE WATER
- NG -	- NG -	NATURAL GAS
- OE -	- OE -	OVERHEAD ELECTRICAL
(W)	(W)	WATER METER
(H)	(H)	FIRE HYDRANT
NA	→	SURFACE FLOW
NA	- - -	SILT FENCING
[Hatched Box]	[Hatched Box]	CATCH BASIN
NA	[Grid Pattern]	CONCRETE PAVEMENT
NA	[Diagonal Lines]	ASPHALT PAVEMENT
NA	[Stippled Box]	RIP RAP

- SITE GRADING NOTES**
- SITE BENCHMARK; CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAVD83.
 - SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY SAME DATED 08/05/2023. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
 - UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
 - CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
 - THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/- 3% OF OPTIMUM.
 - THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY, AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
 - ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S-71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
 - NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
 - APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
 - APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
 - EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.
 - SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE "LOCK IN" OF EROSION MAT.
 - THIS IS A PRIORITY CONSTRUCTION ACTIVITY.
 - ADEQUATE DRAINAGE EROSION AND SEDIMENT CONTROL MEASURES BEST MANAGEMENT PRACTICES AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNERS FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
 - CONTRACTOR SHALL STORE CHEMICALS AND SOLUBLE MATERIALS IN AN ENCLOSED, WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
 - PLACEMENT OF PORTA-POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
 - NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ONSITE.
 - CONSTRUCTION MATERIALS WILL BE STAGED IN THE PAVED AREA SOUTH OF THE PROJECT. FOR TRASH ON THE PROJECT, PROVIDE A TRASH RECEPTACLE WITH A LID, MAINTAIN THE MATERIAL STAGING AREA IN A NEAT AND ORDERLY MANNER.
 - CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE ANDERSON COUNTY SCHOOLS SITE INSPECTOR.

PERMANENT SEEDING RECOMMENDATIONS FOR HIGH MAINTENANCE AREAS (REGION III)
 TDEC MANUAL TABLE 7-9-1 PREFERRED SEED MIXTURES USING NATIVES OR NATURALIZED PLANTS AND PLANTING DATES

ZONE	BEST	MARGINAL	RATEMIX (LB/ACRE)
REGION III	< 2500 FT ELEV. HIGH MAINTENANCE AUG 15 - SEPT 1 MAR 1 - APR 1	SEPT 1 - SEPT 15 APR 1 - JUNE 10	15 BROWNTOP MILLET (NURSE CROP) 45 RED FESCUE 45 HARD FESCUE 25 CHEWING FESCUE

TDEC MANUAL TABLE 7-9-2 ALLOWABLE SEED MIXES AND PLANTING DATES

ZONE	BEST	MARGINAL	RATEMIX (LB/ACRE)
REGION III	< 2500 FT ELEV. HIGH MAINTENANCE AUG 15 - SEPT 1 MAR 1 - APR 1	JULY 25 - AUG 15 SEPT 1 - SEPT 15 APR 1 - MAY 10	200 KY 31 FESCUE

- CONSTRUCTION SEQUENCE OF EVENTS:**
- INSTALL EROSION CONTROL MEASURES
 - SITE CLEARING AND GRUBBING
 - SITE DEMOLITION
 - SITE ROUGH GRADING
 - TEMPORARY SEEDING
 - FOUNDATION CONSTRUCTION
 - SLAB CONSTRUCTION
 - WALL/ROOF SYSTEM CONSTRUCTION
 - EXTERIOR/INTERIOR FINISH
 - PARKING LOT PAVING
 - FINISH GRADING
 - PERMANENT SEEDING/LANDSCAPING
 - SITE CLOSEOUT/LONG TERM MAINTENANCE

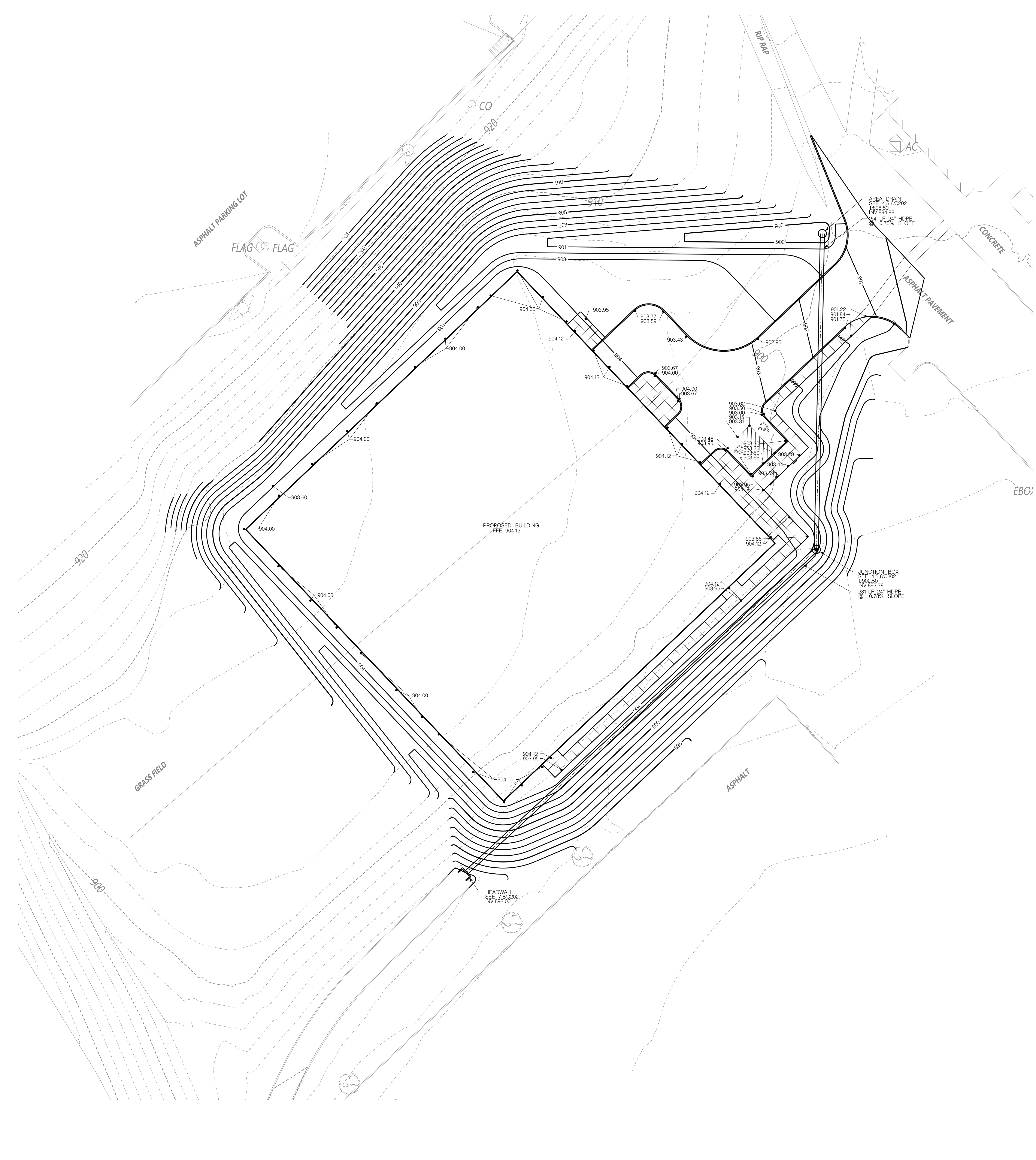
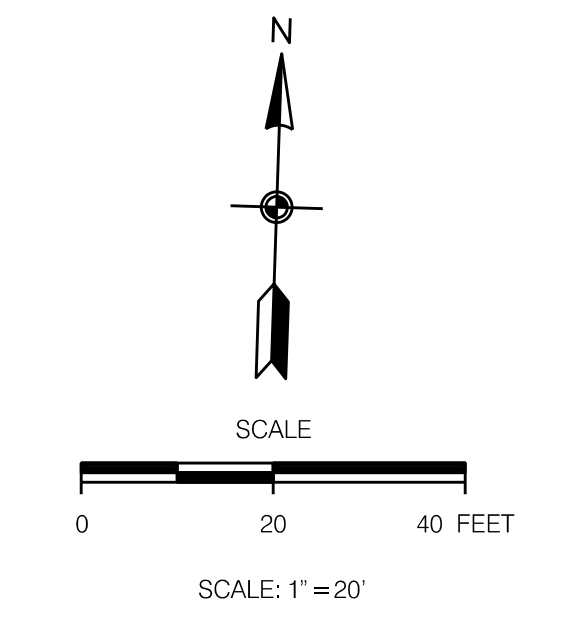
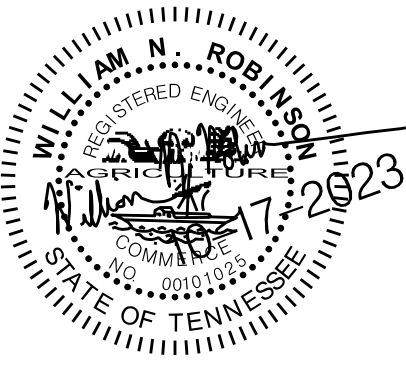
DIA
 Design Innovation
 ARCHITECTS + INTERIORS + PLANNING
 402 S. Gay Street, Suite 201, Knoxville, TN 37902
 PH 865.637.8540 / F 865.544.3840
 www.dia-arch.com

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

SHEET DESCRIPTION	
EROSION CONTROL - 2	

C104

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

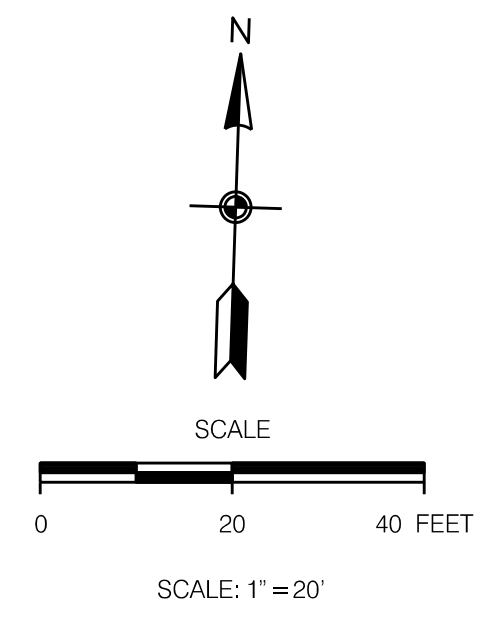
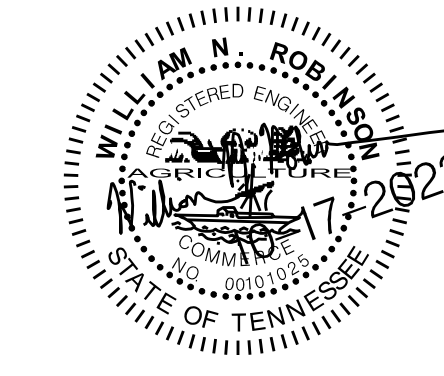


LEGEND:

EXISTING	PROPOSED	
- 535 -	- 535 -	GROUND CONTOUR ELEVATION
□ 535.25'	□ 535.25'	SPOT ELEVATION
□	□	STRUCTURE
○	○	PROPERTY LINE
---	---	EASEMENT
— SD —	— SD —	EDGE OF PAVEMENT
— SS —	— SS —	STORM DRAIN
— PW —	— PW —	SANITARY SEWER
— NG —	— NG —	POTABLE WATER
— OE —	— OE —	NATURAL GAS
⊙	⊙	OVERHEAD ELECTRICAL
⊙	⊙	WATER METER
⊙	⊙	FIRE HYDRANT
→	→	SURFACE FLOW
— S —	— S —	SILT FENCING
—	—	CURB
◻	◻	CATCH BASIN
◻	◻	CONCRETE PAVEMENT
◻	◻	ASPHALT PAVEMENT
◻	◻	RIP RAP

- SITE GRADING NOTES**
1. SITE BENCHMARK; CONTACT SURVEYOR FOR LOCATION AND ELEVATION OF SITE BENCHMARK BASIS NAV208.
 2. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY SAME DATED 08/09/2023. THE GRADING CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
 3. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION.
 4. CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, RIP RAP AND EROSION CONTROL MAT AS SOON AS PRACTICAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE STRUCTURES UNTIL THE SITE HAS BEEN SUFFICIENTLY STABILIZED.
 5. THE CONTRACTOR SHALL EMPLOY SOILS CONSULTANTS FOR THE TESTING OF SOIL COMPACTION IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. SOIL SHALL BE COMPACTED TO 98% OF ITS MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD. SOIL MOISTURE CONTENT SHALL BE MAINTAINED WITHIN +/- 3% OF OPTIMUM.
 6. THIS PROJECT MAY INVOLVE IMPORT OR WASTE OF FILL MATERIAL. THE CONTRACTOR SHALL REVIEW THIS PLAN, THE SITE SURVEY, AND INSPECT THE SITE ITSELF. THE CONTRACTOR SHALL THEN FORMULATE HIS OWN OPINION AS TO THE APPLICABILITY OF THIS PLAN TO THE GOAL OF AN ECONOMICALLY OPTIMAL SITE. CONTACT THE ENGINEER IF CHANGES TO THIS GRADING PLAN ARE REQUIRED TO MEET THIS GOAL.
 7. ALL SLOPES GREATER THAN 3:1 SHALL BE SPREAD WITH NORTH AMERICAN GREEN S-71 EROSION CONTROL FABRIC. INSTALL FABRIC PER MANUFACTURERS RECOMMENDATIONS.
 8. NO SLOPES SHALL BE GREATER THAN 2 HORIZONTAL : 1 VERTICAL.
 9. APPLY TEMPORARY SEEDING WHENEVER GRADING OPERATIONS ARE TEMPORARILY HALTED FOR OVER 14 DAYS AND FINAL GRADING OR EXPOSED SURFACES IS TO BE COMPLETED WITHIN ONE YEAR. APPLY TEMPORARY SEEDING TO SOIL STOCKPILES.
 10. APPLY PERMANENT SEEDING WHENEVER GRADING OPERATIONS ARE COMPLETED AND ALL CONSTRUCTION OPERATIONS WILL NOT IMPACT THE DISTURBED AREA. APPLY PERMANENT SEEDING TO ALL NON-CONSTRUCTION AREAS WHICH SHOW SIGNS OF EXCESSIVE EROSION.
 11. EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES SHALL FOLLOW THE APPROVED PLAN DETAILS. IF DETAILS ARE NOT SHOWN, REFERENCE THE TENNESSEE EROSION AND SEDIMENT CONTROL HANDBOOK LATEST EDITION.
 12. SLOPES SHALL HAVE EROSION CONTROL MAT INSTALLED IMMEDIATELY AFTER SLOPE GRADING IS COMPLETED AND TOPSOIL HAS BEEN INSTALLED TO ENCOURAGE LOCK IN OF EROSION MAT.
 13. THIS IS A PRIORITY CONSTRUCTION ACTIVITY.
 14. ADEQUATE DRAINAGE EROSION AND SEDIMENT CONTROL MEASURES BEST MANAGEMENT PRACTICES AND/OR OTHER STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION. DAMAGES TO ADJACENT PROPERTY AND/OR THE CONSTRUCTION SITE CAUSED BY THE CONTRACTOR'S OR PROPERTY OWNERS FAILURE TO PROVIDE AND MAINTAIN ADEQUATE DRAINAGE AND EROSION/SEDIMENT CONTROL FOR THE CONSTRUCTION AREA SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER AND/OR CONTRACTOR.
 15. CONTRACTOR SHALL STORE CHEMICALS AND SOLUBLE MATERIALS IN AN ENCLOSED WATERPROOF LOCATION OR PROVIDED WITH SECONDARY CONTAINMENT CAPABLE OF STORING THE CONTENTS OF THE TOTAL AMOUNT OF CHEMICALS STORED. SPILL CLEANUP MATERIALS MUST BE LOCATED WITHIN THE IMMEDIATE PROXIMITY OF THE MATERIALS AS WELL.
 16. PLACEMENT OF PORTA-POTTIES ON THE PROJECT WILL NOT BE LOCATED CLOSE TO STREAMS, WETLANDS, OR STORM DRAINS.
 17. NO VEHICLE MAINTENANCE OF CONSTRUCTION VEHICLES WILL OCCUR ONSITE.
 18. CONSTRUCTION MATERIALS WILL BE STAGED IN THE PAVED AREA SOUTH OF THE PROJECT. FOR TRASH ON THE PROJECT. PROVIDE A TRASH RECEPTACLE WITH A LID. MAINTAIN THE MATERIAL STAGING AREA IN AN NEAT AND ORDERLY MANNER.
 19. CONTRACTOR SHALL INSTALL 4" THICK LAYER OF QUALITY TOPSOIL ON ALL DISTURBED AREAS AND ESTABLISH A THICK STAND OF GRASS ACCEPTABLE TO THE ANDERSON COUNTY SCHOOLS SITE INSPECTOR.

7/16/2024 3:06:29 PM



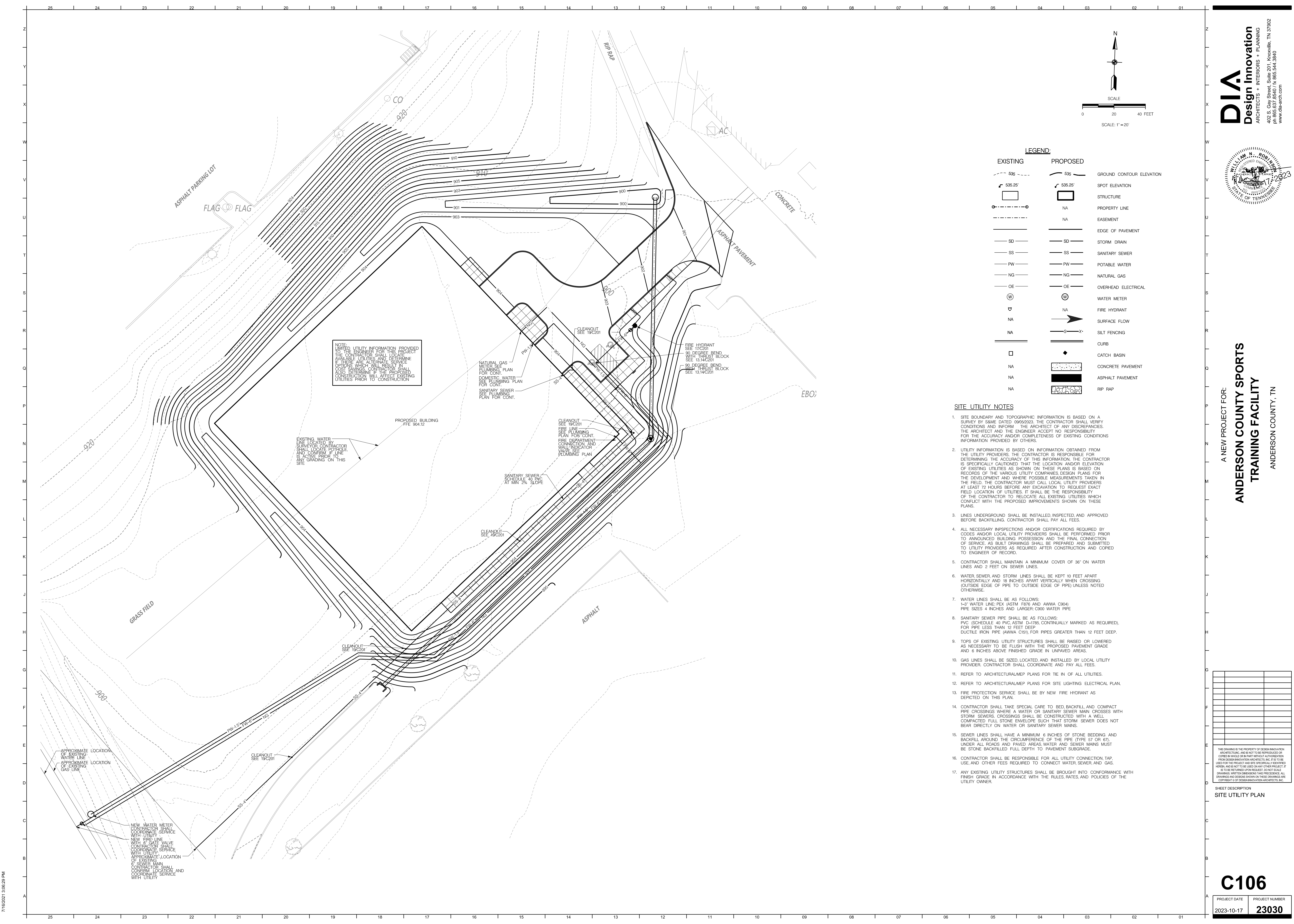
LEGEND:

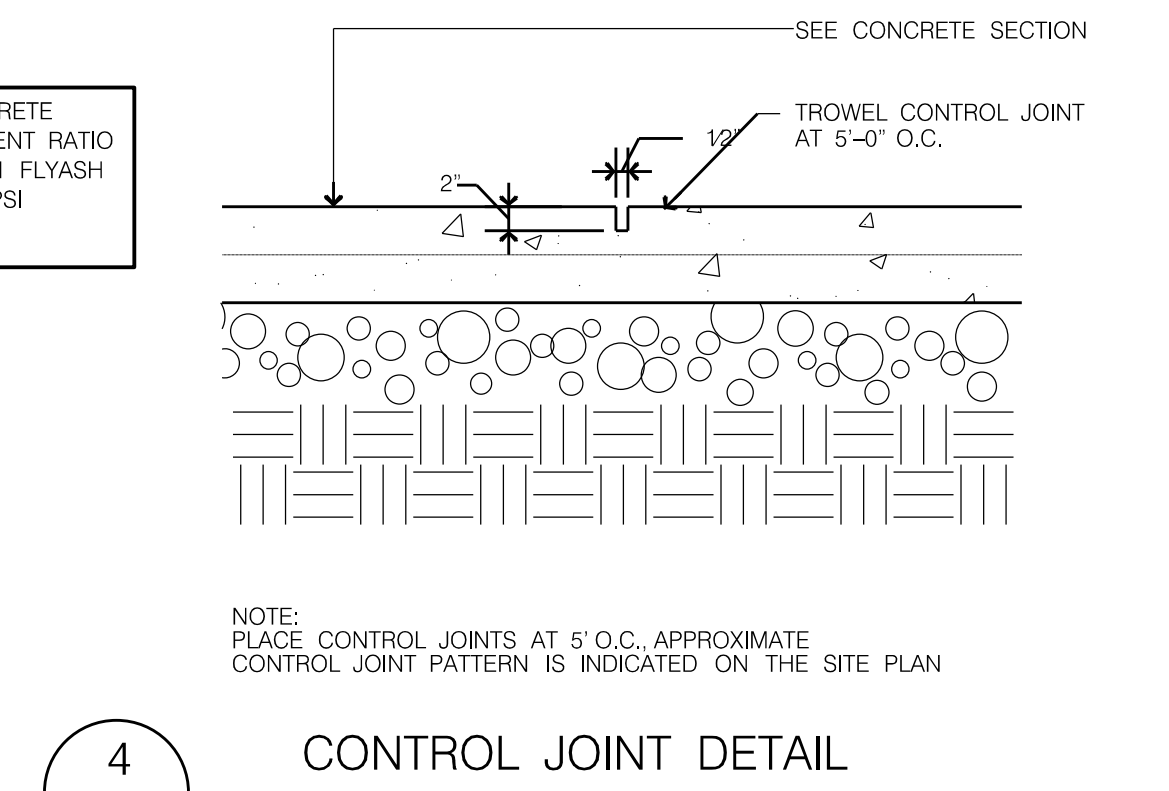
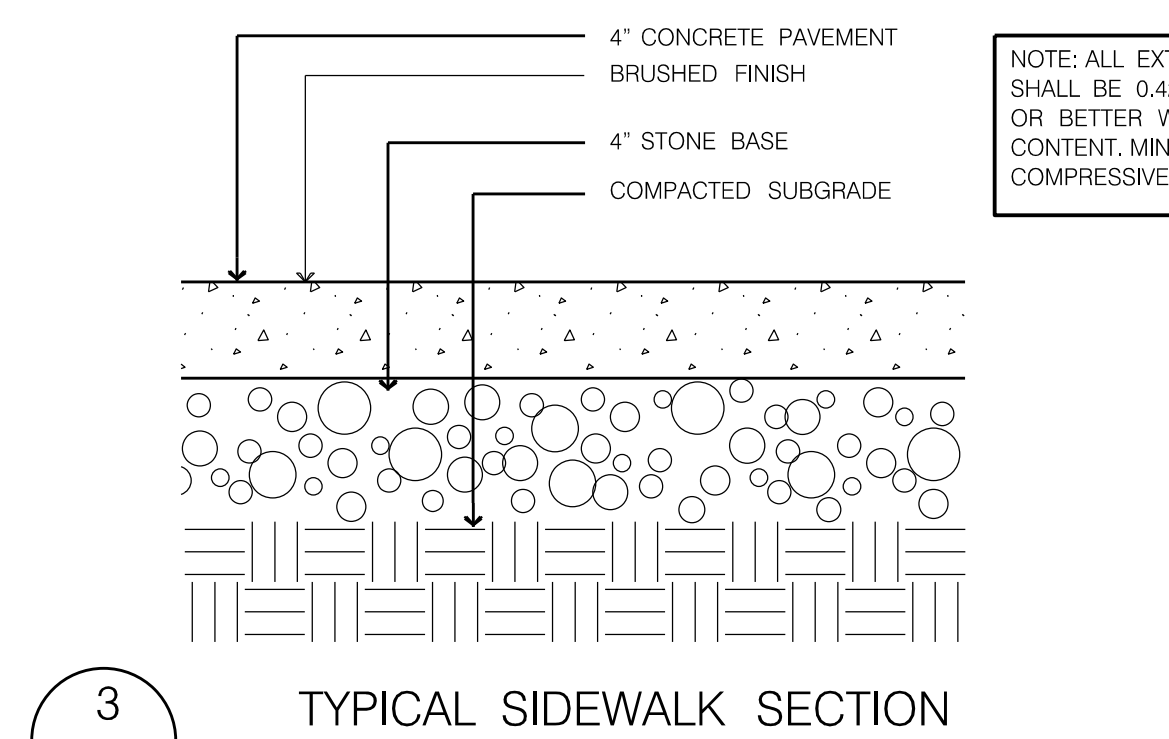
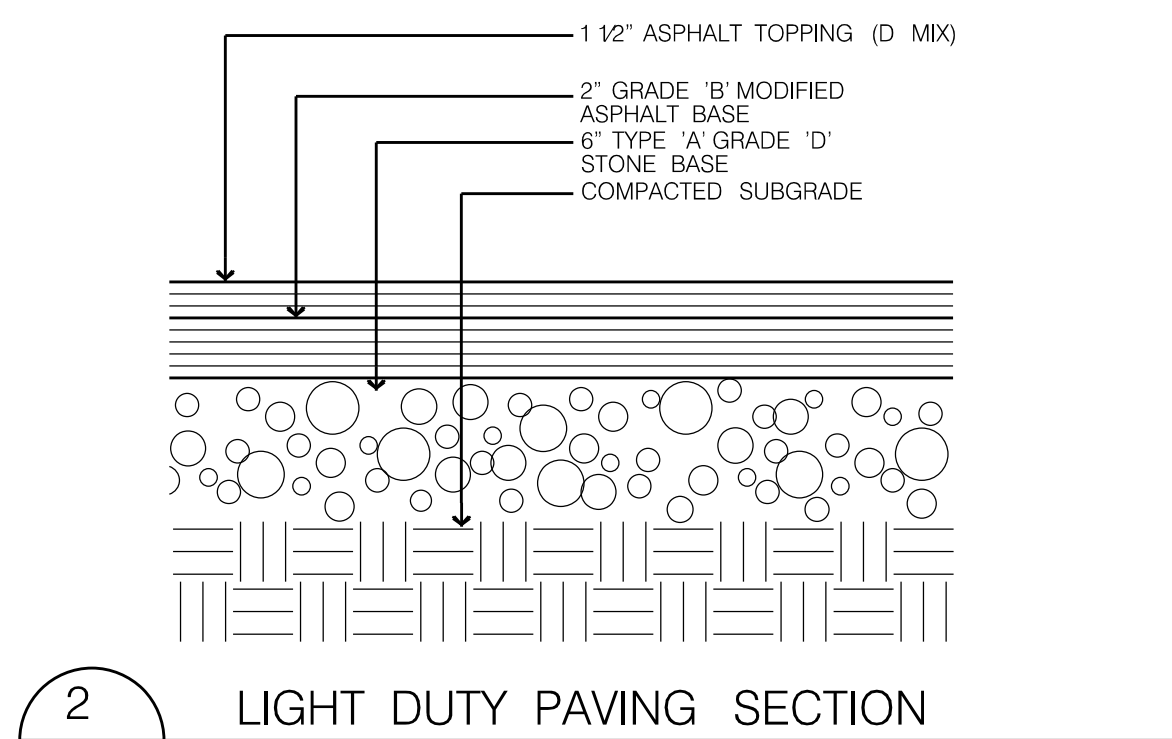
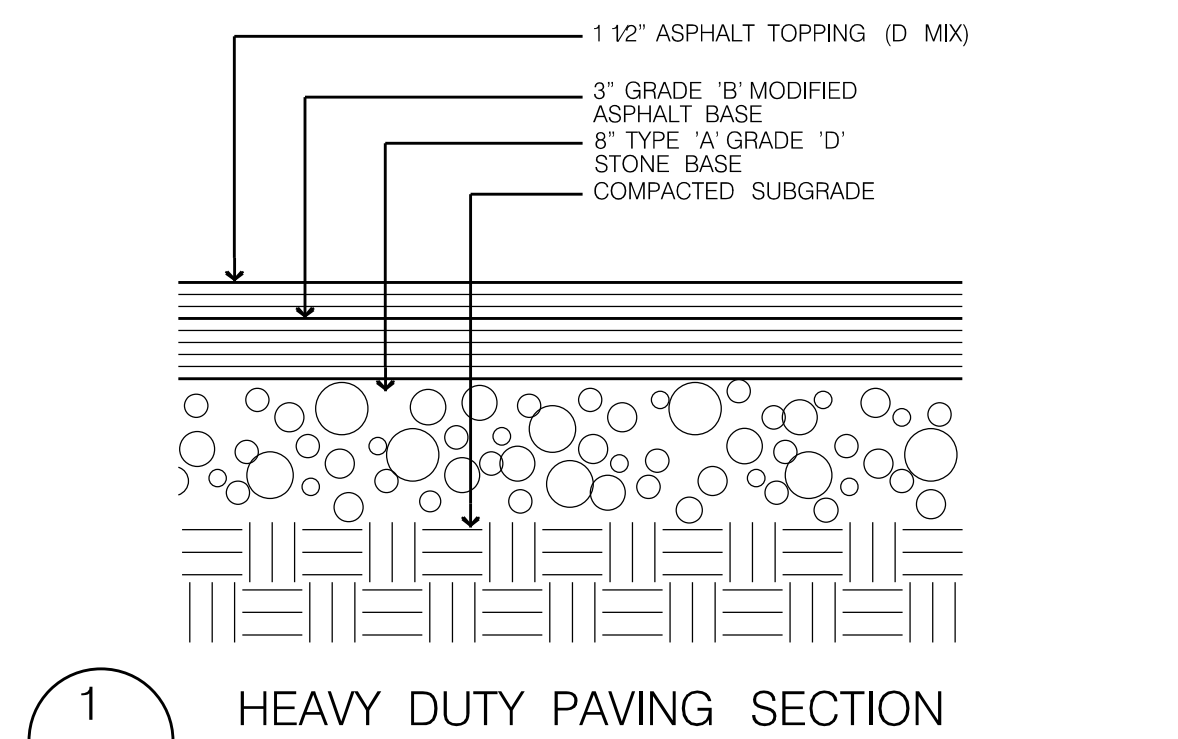
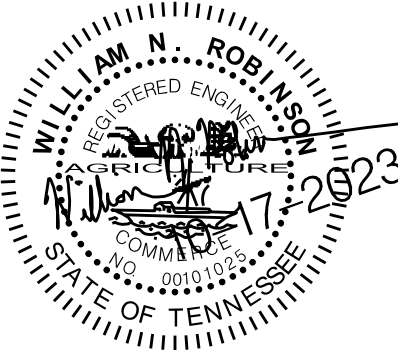
EXISTING	PROPOSED	
- - - - -	—————	GROUND CONTOUR ELEVATION
535.25'	535.25'	SPOT ELEVATION
		STRUCTURE
	NA	PROPERTY LINE
	NA	EASEMENT
	—————	EDGE OF PAVEMENT
	—————	STORM DRAIN
	—————	SANITARY SEWER
	—————	POTABLE WATER
	—————	NATURAL GAS
	—————	OVERHEAD ELECTRICAL
		WATER METER
	NA	FIRE HYDRANT
	—————	SURFACE FLOW
	—————	SILT FENCING
	—————	CURB
		CATCH BASIN
NA		CONCRETE PAVEMENT
NA		ASPHALT PAVEMENT
NA		RIP RAP

SITE UTILITY NOTES

1. SITE BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED ON A SURVEY BY S&ME DATED 09/22/2023. THE CONTRACTOR SHALL VERIFY CONDITIONS AND INFORM THE ARCHITECT OF ANY DISCREPANCIES. THE ARCHITECT AND THE ENGINEER ACCEPT NO RESPONSIBILITY FOR THE ACCURACY AND/OR COMPLETENESS OF EXISTING CONDITIONS INFORMATION PROVIDED BY OTHERS.
2. UTILITY INFORMATION IS BASED ON INFORMATION OBTAINED FROM THE UTILITY PROVIDERS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACCURACY OF THIS INFORMATION. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES. DESIGN PLANS FOR THE DEVELOPMENT AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE CONTRACTOR MUST CALL LOCAL UTILITY PROVIDERS AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS.
3. LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED, AND APPROVED BEFORE BACKFILLING. CONTRACTOR SHALL PAY ALL FEES.
4. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR LOCAL UTILITY PROVIDERS SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE. AS BUILT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO UTILITY PROVIDERS AS REQUIRED AFTER CONSTRUCTION AND COPIED TO ENGINEER OF RECORD.
5. CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 36" ON WATER LINES AND 2 FEET ON SEWER LINES.
6. WATER, SEWER AND STORM LINES SHALL BE KEPT 10 FEET APART HORIZONTALLY AND 18 INCHES APART VERTICALLY WHEN CROSSING (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE) UNLESS NOTED OTHERWISE.
7. WATER LINES SHALL BE AS FOLLOWS:
 1-2" WATER LINE: PE (ASTM F876 AND AWWA C904)
 PIPE SIZES 4 INCHES AND LARGER: C900 WATER PIPE
8. SANITARY SEWER PIPE SHALL BE AS FOLLOWS:
 PVC (SCHEDULE 40 PVC, ASTM D-1785, CONTINUALLY MARKED AS REQUIRED), FOR PIPE LESS THAN 12 FEET DEEP.
 DUCTILE IRON PIPE (AWWA C153), FOR PIPES GREATER THAN 12 FEET DEEP.
9. TOPS OF EXISTING UTILITY STRUCTURES SHALL BE RAISED OR LOWERED AS NECESSARY TO BE FLUSH WITH THE PROPOSED PAVEMENT GRADE AND 6 INCHES ABOVE FINISHED GRADE IN UNPAVED AREAS.
10. GAS LINES SHALL BE SIZED, LOCATED, AND INSTALLED BY LOCAL UTILITY PROVIDER. CONTRACTOR SHALL COORDINATE AND PAY ALL FEES.
11. REFER TO ARCHITECTURAL MEP PLANS FOR THE IN OF ALL UTILITIES.
12. REFER TO ARCHITECTURAL MEP PLANS FOR SITE LIGHTING ELECTRICAL PLAN.
13. FIRE PROTECTION SERVICE SHALL BE BY NEW FIRE HYDRANT AS DERICTED ON THIS PLAN.
14. CONTRACTOR SHALL TAKE SPECIAL CARE TO BED BACKFILL AND COMPACT PIPE CROSSINGS WHERE A WATER OR SANITARY SEWER MAIN CROSSSES WITH STORM SEWERS. CROSSINGS SHALL BE CONSTRUCTED WITH A WELL COMPACTED FULL STONE ENVELOPE SUCH THAT STORM SEWER DOES NOT BEAR DIRECTLY ON WATER OR SANITARY SEWER MAINS.
15. SEWER LINES SHALL HAVE A MINIMUM 6 INCHES OF STONE BEDDING AND BACKFILL AROUND THE CIRCUMFERENCE OF THE PIPE (PIPE 37 OR 47) UNDER ALL ROADS AND PAVED AREAS. WATER AND SEWER MAINS MUST BE STONE BACKFILLED FULL DEPTH TO PAVEMENT SUBGRADE.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY CONNECTION, TAP, USE, AND OTHER FEES REQUIRED TO CONNECT WATER, SEWER, AND GAS.
17. ANY EXISTING UTILITY STRUCTURES SHALL BE BROUGHT INTO CONFORMANCE WITH FINISH GRADE IN ACCORDANCE WITH THE RULES, RATES, AND POLICIES OF THE UTILITY OWNER.

NOTE:
 UTILITY INFORMATION PROVIDED TO THE ENGINEER FOR THIS PROJECT IS FOR INFORMATION ONLY. THE ENGINEER SHALL LOCATE AVAILABLE UTILITIES AND DETERMINE THE LOCATION AND DEPTH OF UTILITIES WHICH WILL RESULT IN CONFLICTS WITH THE PROPOSED CONSTRUCTION. THE ENGINEER SHALL ALSO DETERMINE IF THE PROPOSED CONSTRUCTION WILL AFFECT EXISTING UTILITIES PRIOR TO CONSTRUCTION.



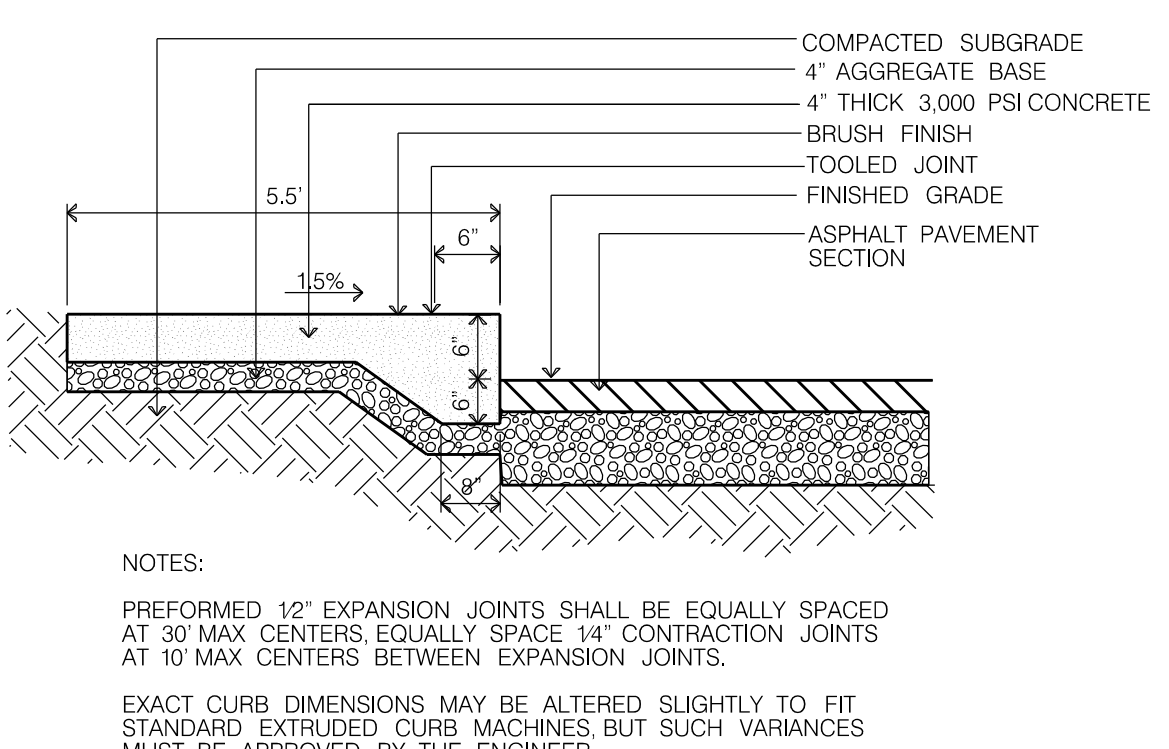
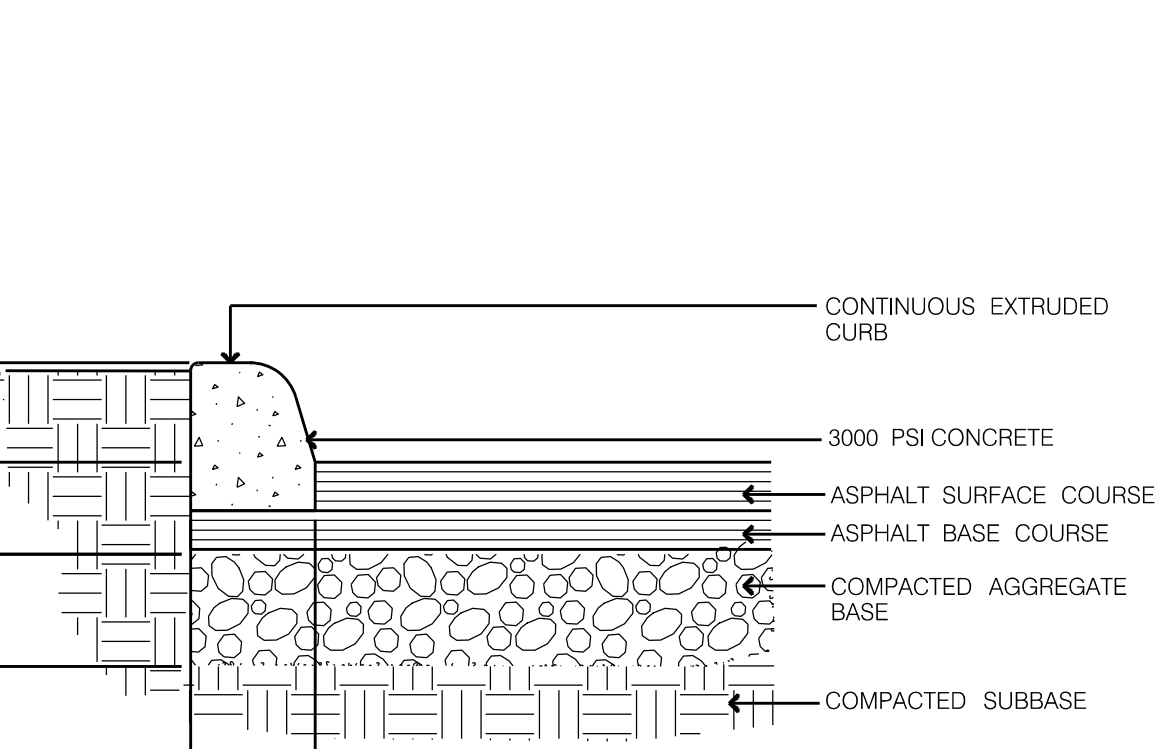
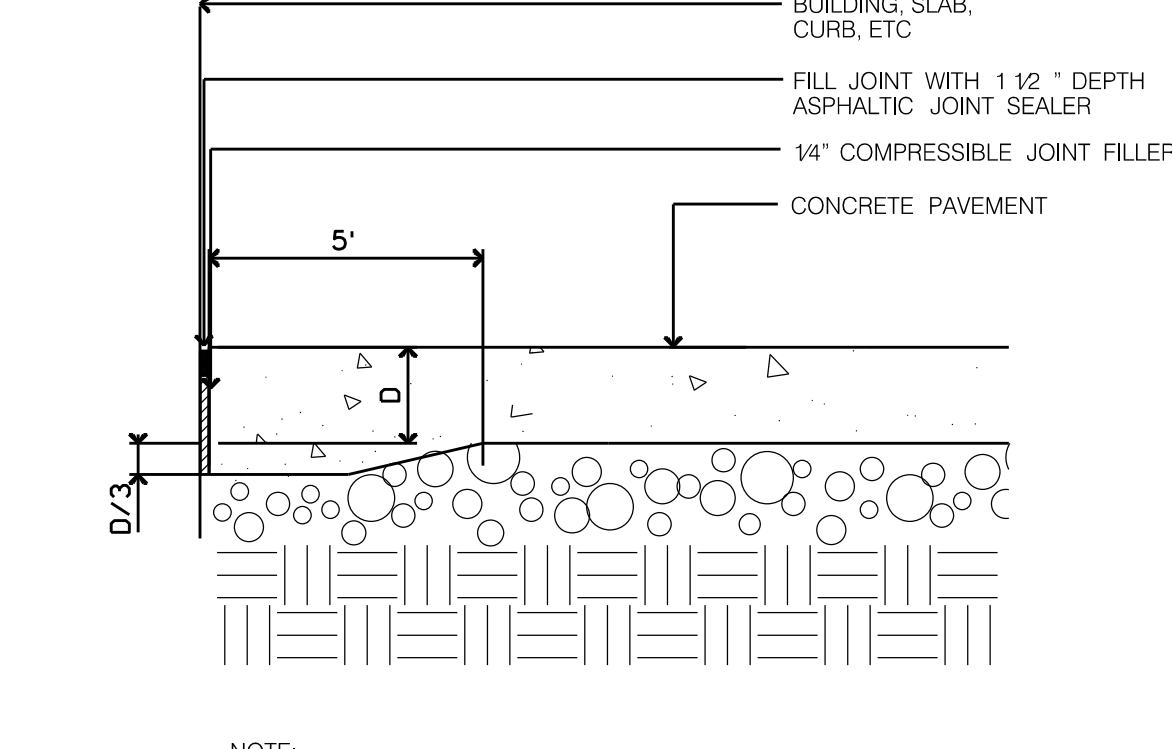
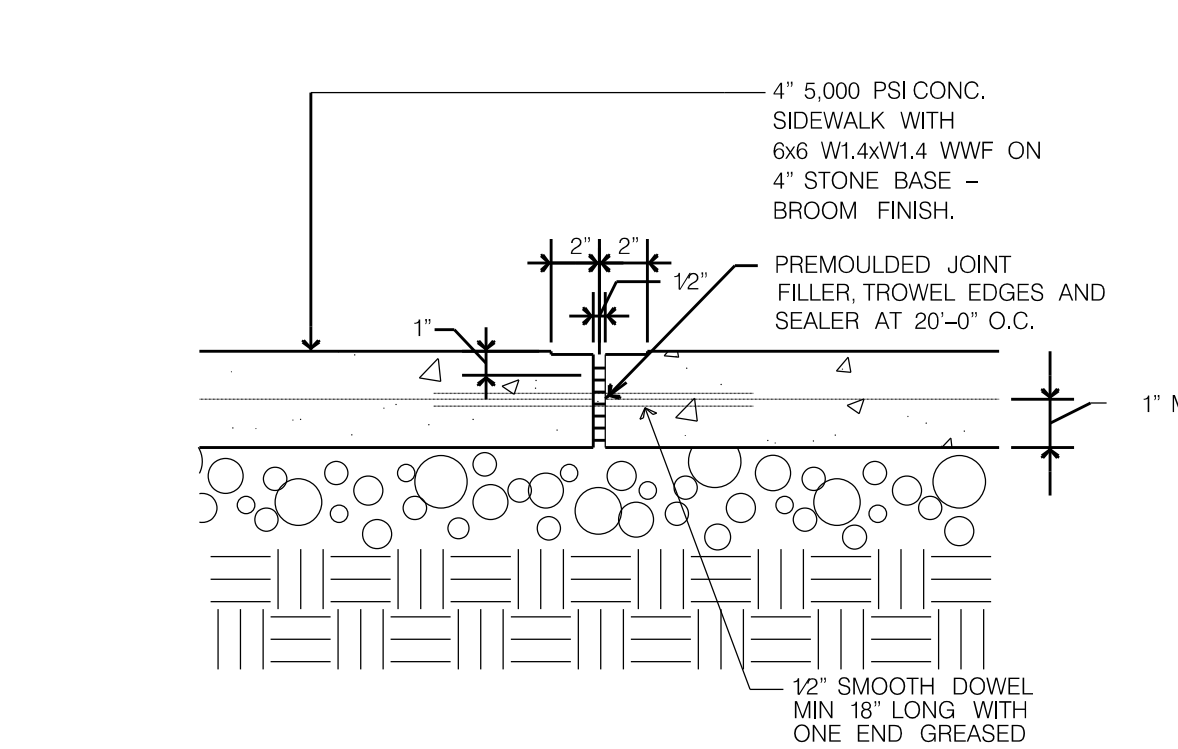


1 HEAVY DUTY PAVING SECTION
C201 NOT TO SCALE

2 LIGHT DUTY PAVING SECTION
C201 NOT TO SCALE

3 TYPICAL SIDEWALK SECTION
C201 NOT TO SCALE

4 CONTROL JOINT DETAIL
C201 NOT TO SCALE

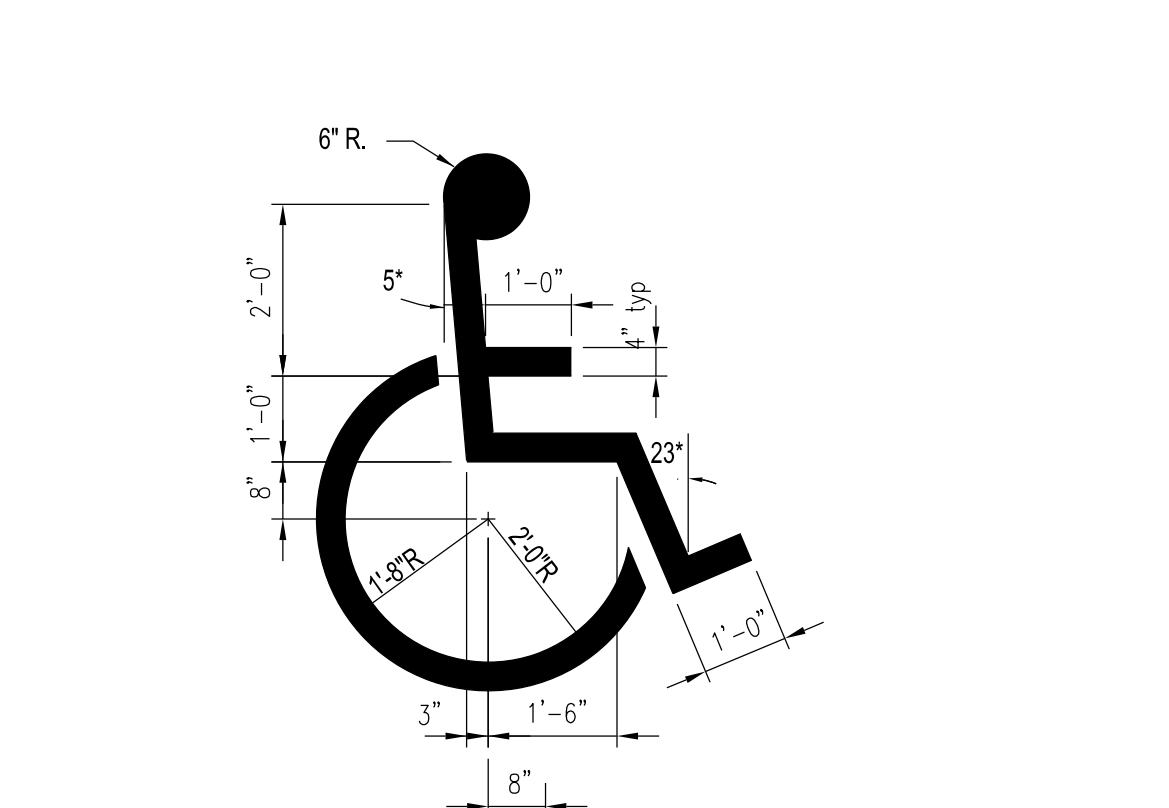
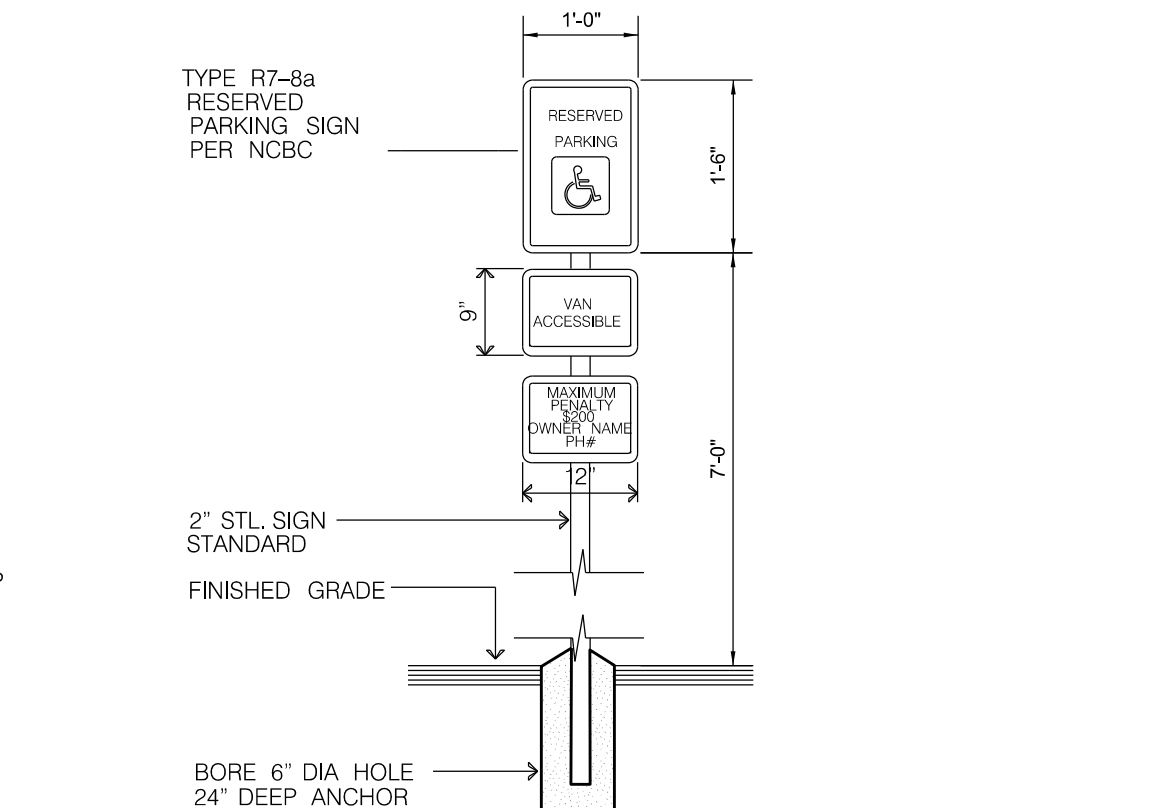
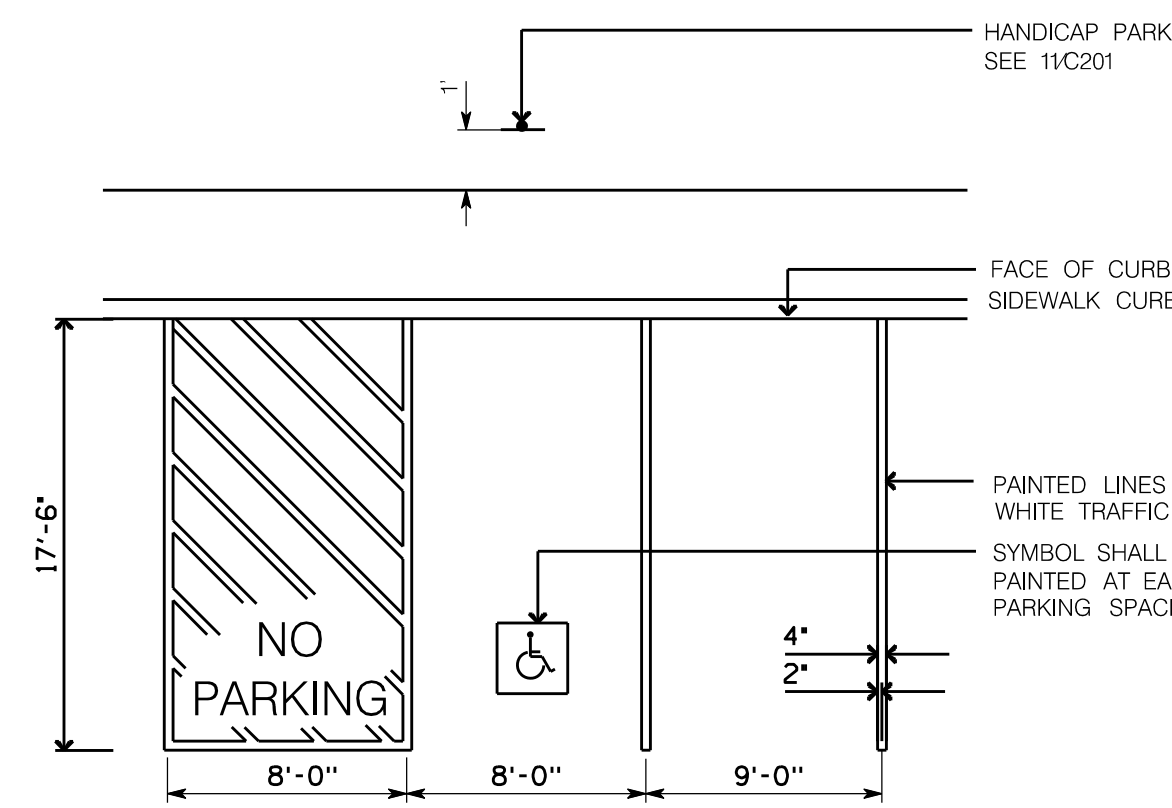
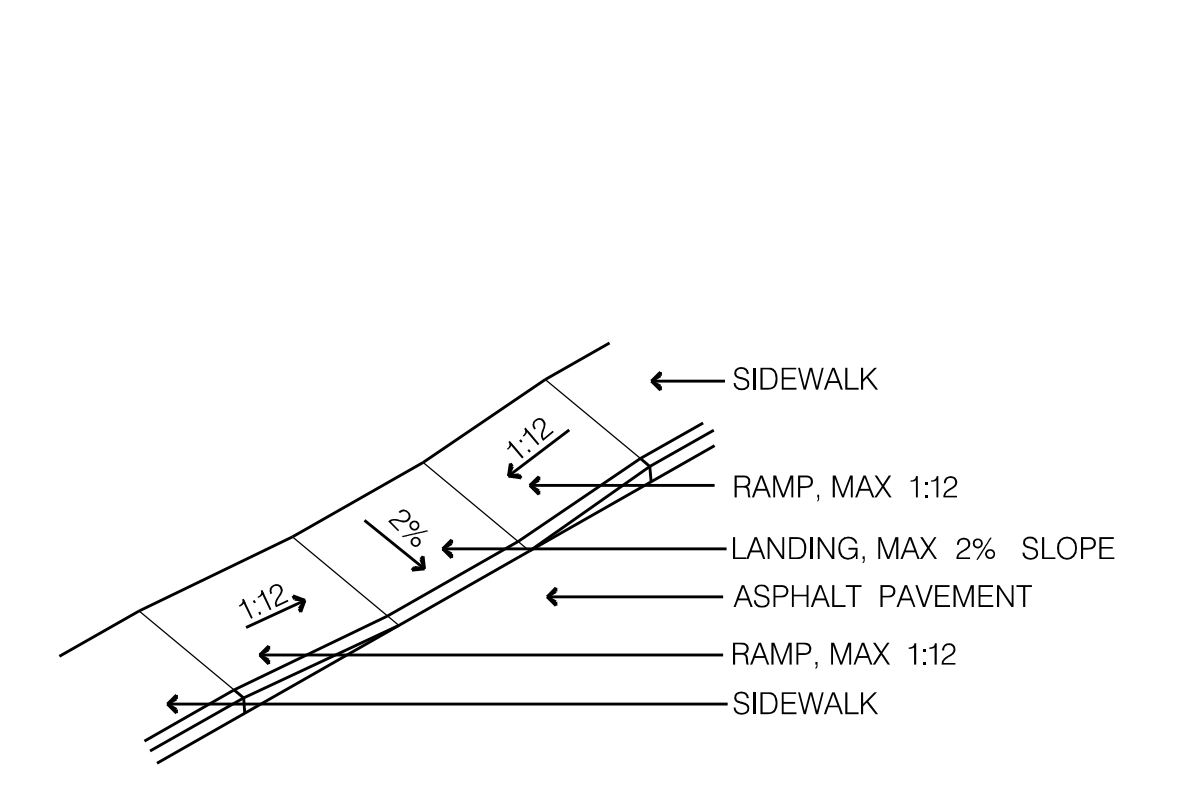


5 EXPANSION JOINT DETAIL
C201 NOT TO SCALE

6 THICKENED EDGE DETAIL
C201 NOT TO SCALE

7 TYPICAL CURB
C201 NOT TO SCALE

8 SIDEWALK WITH INTEGRAL CURB
C201 NOT TO SCALE

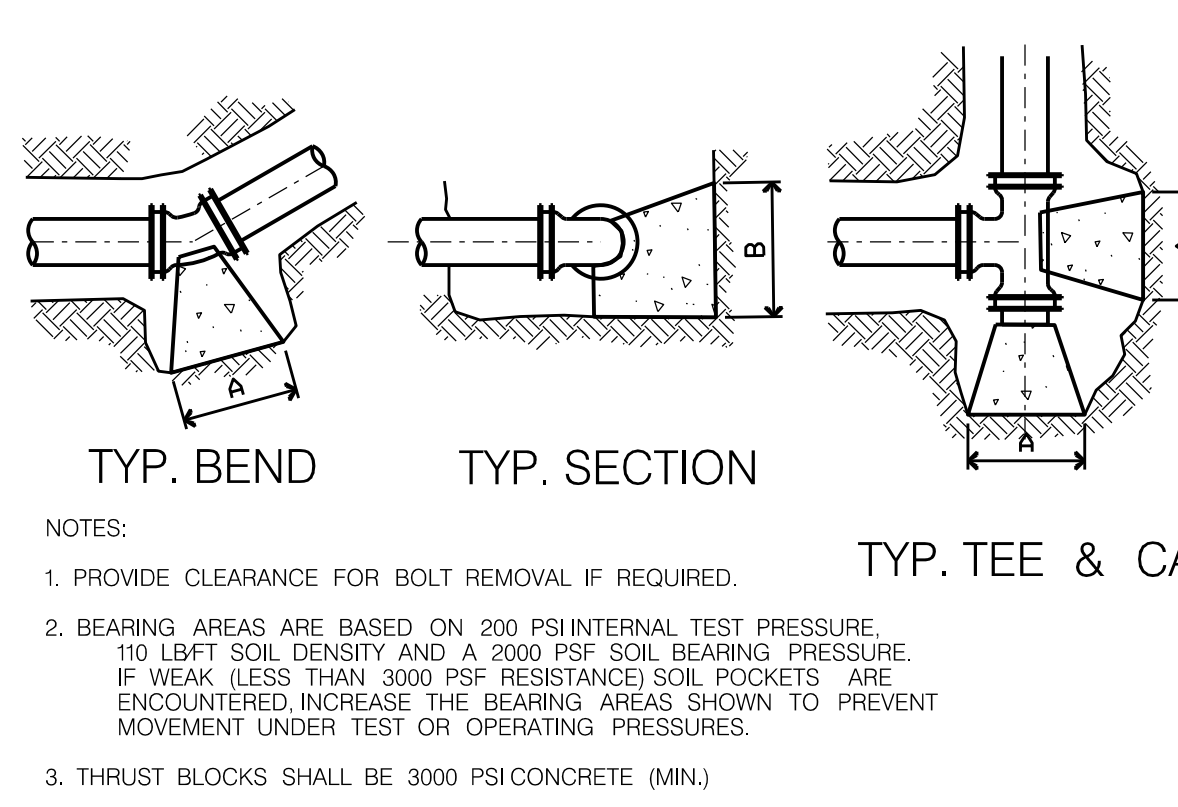


9 ADA SIDE RAMP DETAIL
C201 NOT TO SCALE

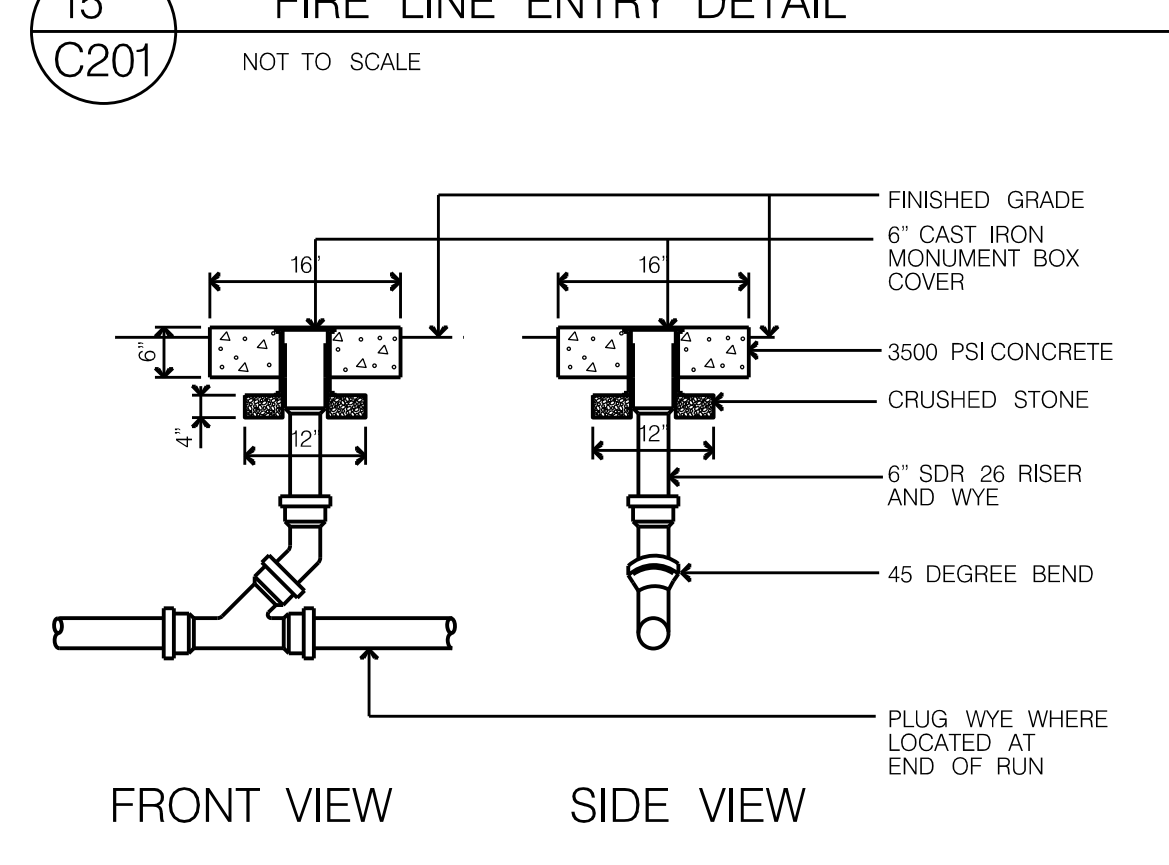
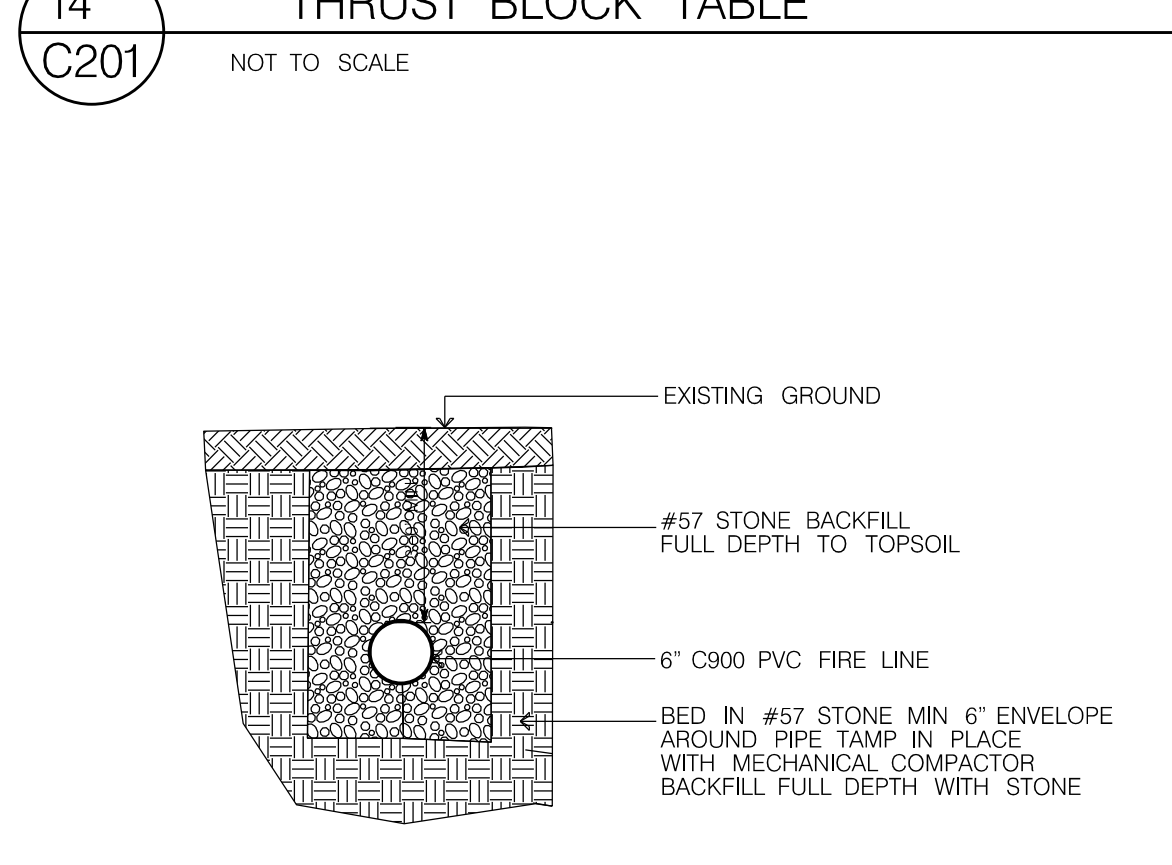
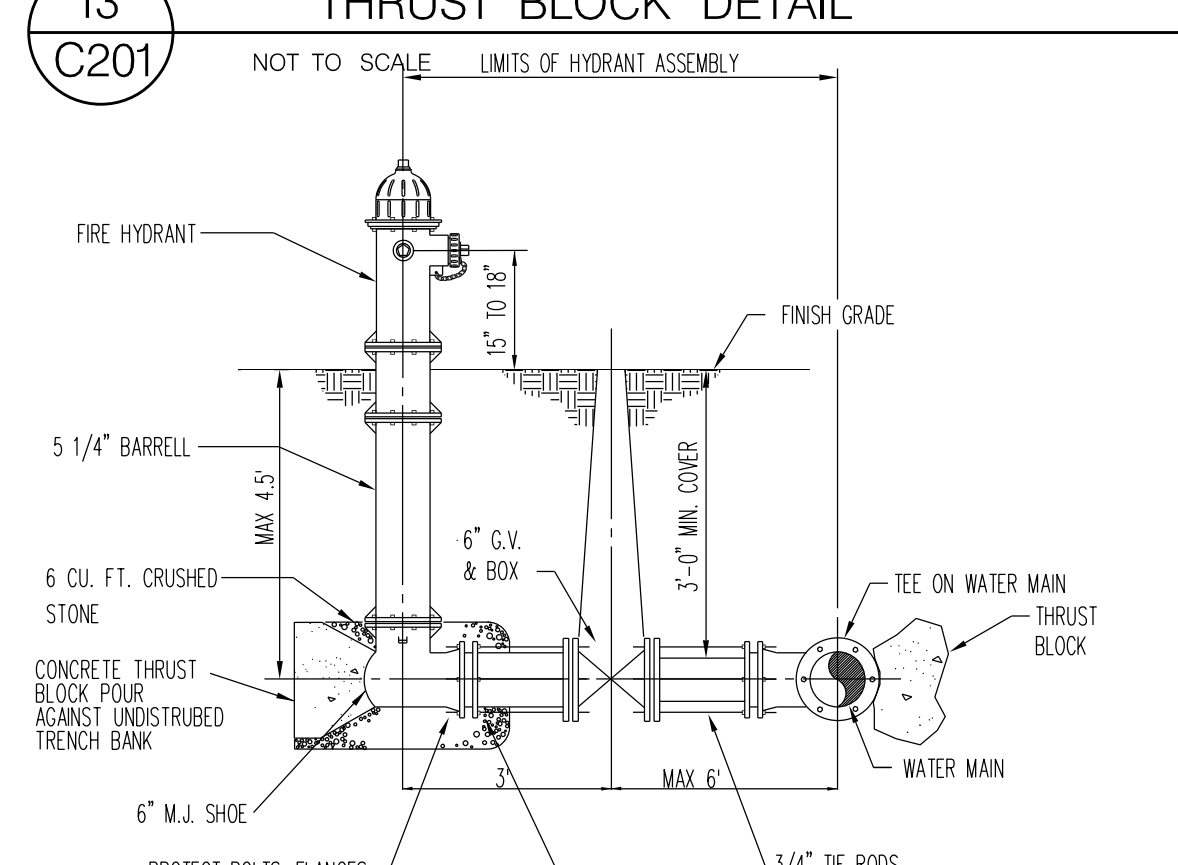
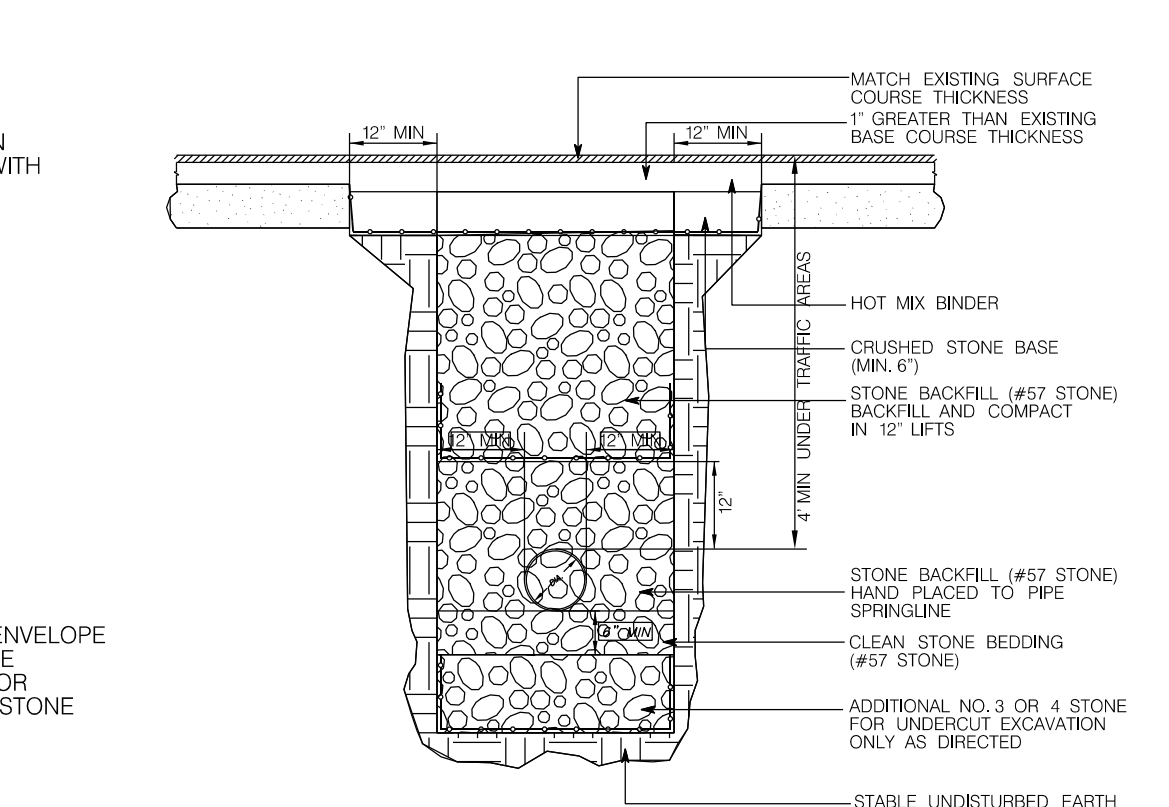
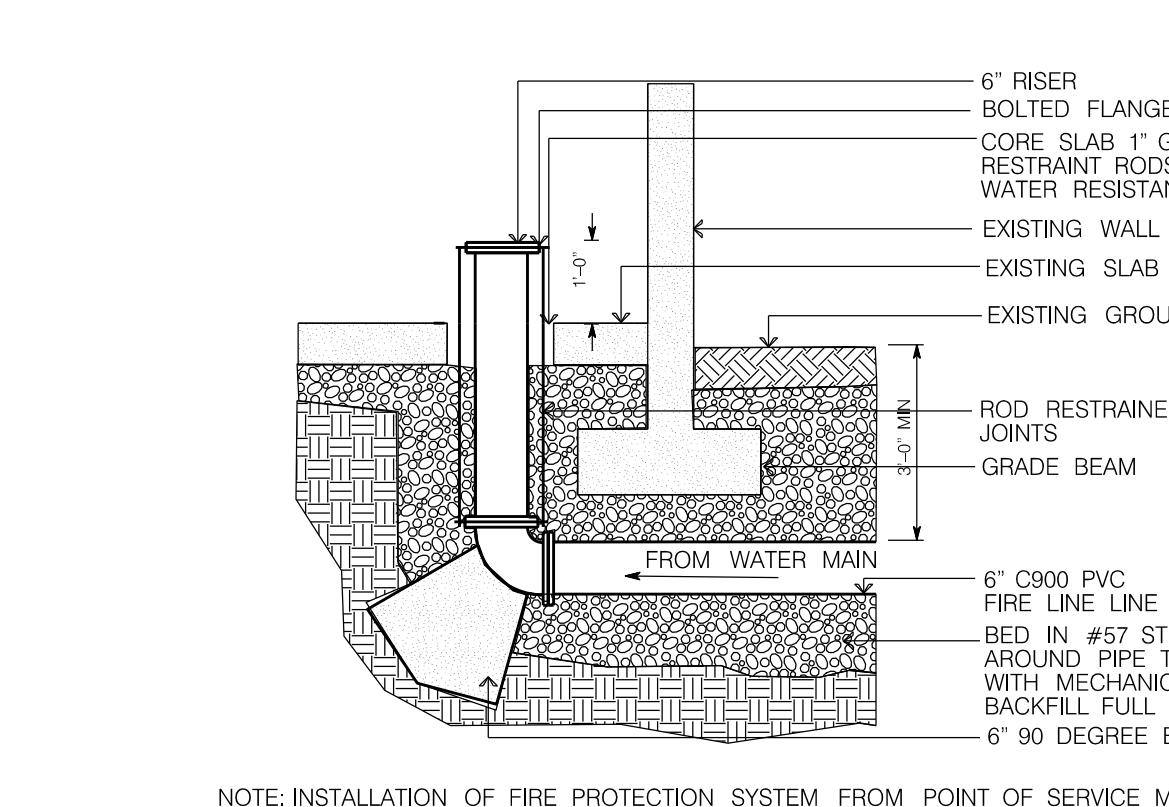
10 TYPICAL PARKING SPACE DETAIL
C201 NOT TO SCALE

11 HANDICAP SIGN
C201 NOT TO SCALE

12 ACCESSIBILITY SYMBOL
C201 NOT TO SCALE



BEND	90 BEND		45 BEND		22 1/2 BEND		11 1/4 BEND		TEES & CAPS	
	A	B	A	B	A	B	A	B	A	B
6"	2'-4"	2'-4"	1'-9"	1'-9"	1'-6"	1'-6"	1'-6"	1'-6"	2'-0"	2'-0"
8"	3'-0"	3'-0"	2'-3"	2'-3"	1'-9"	1'-9"	1'-9"	1'-9"	2'-9"	2'-9"
10"	3'-9"	3'-9"	2'-9"	2'-9"	2'-0"	2'-0"	2'-0"	2'-0"	3'-3"	3'-3"
12"	4'-6"	4'-6"	3'-3"	3'-3"	2'-6"	2'-6"	2'-6"	2'-6"	3'-9"	3'-9"



17 TYPICAL HYDRANT DETAIL
C201 NOT TO SCALE

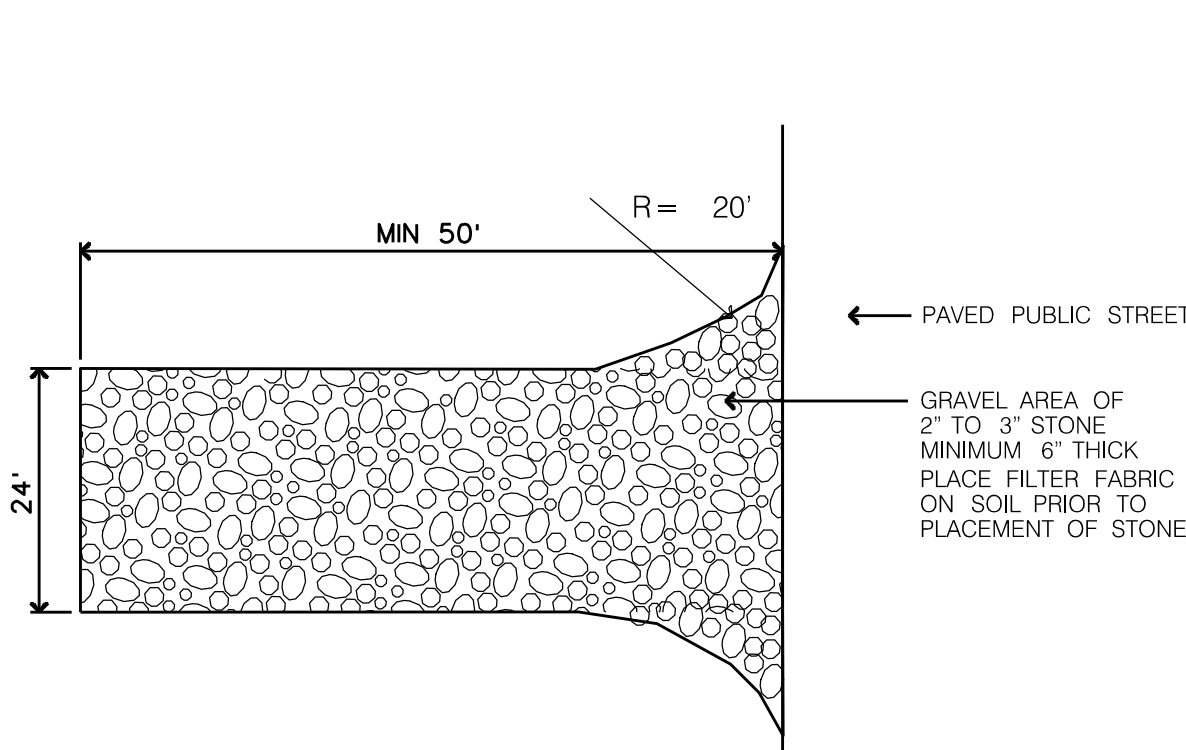
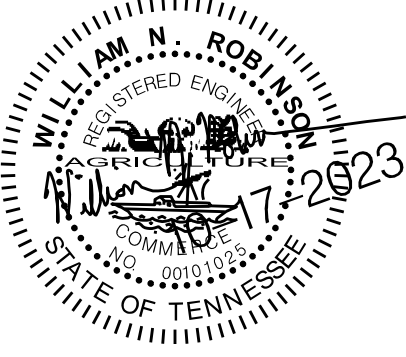
18 FIRE LINE TRENCH DETAIL
C201 NOT TO SCALE

19 SEWER CLEANOUT
C201 NOT TO SCALE

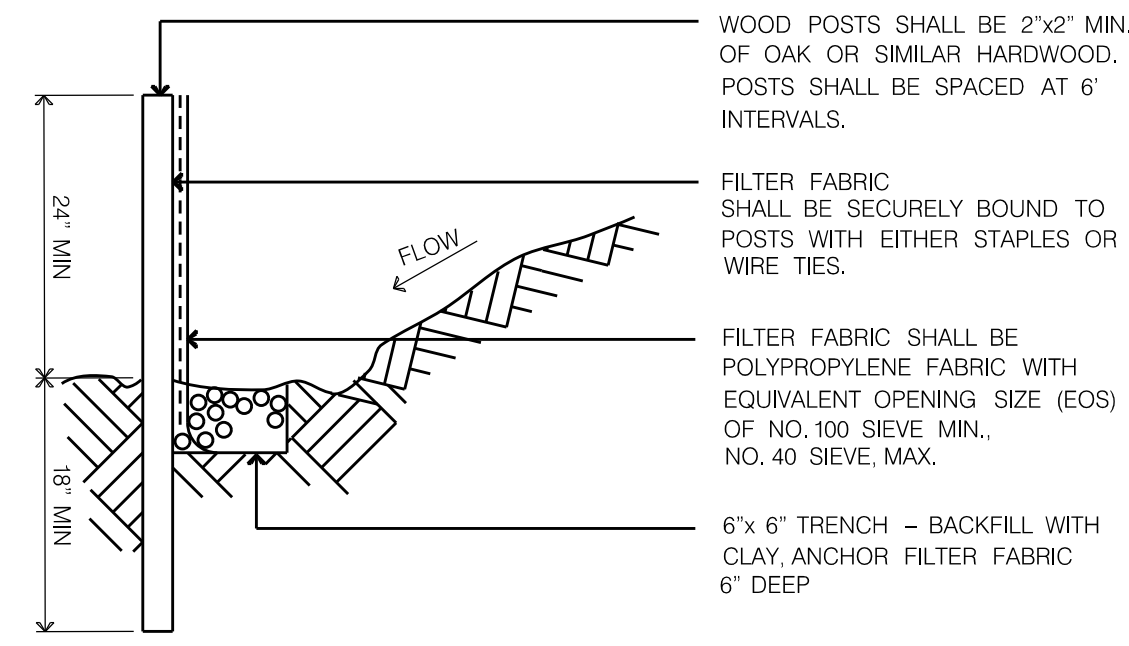
NOTES:
1. PROVIDE CLEARANCE FOR BOLT REMOVAL IF REQUIRED.
2. BEARING AREAS ARE BASED ON 200 PSI INTERNAL TEST PRESSURE, 110 LBFT SOIL DENSITY AND A 3,000 PSF SOIL BEARING PRESSURE. IF WEAK, LESS THAN 3,000 PSF RESISTANCE SOIL POCKETS ARE ENCOUNTERED, INCREASE THE BEARING AREAS SHOWN TO PREVENT MOVEMENT UNDER TEST OR OPERATING PRESSURES.
3. THRUST BLOCKS SHALL BE 3,000 PSI CONCRETE (MIN).

NO.	REVISION	DATE	BY

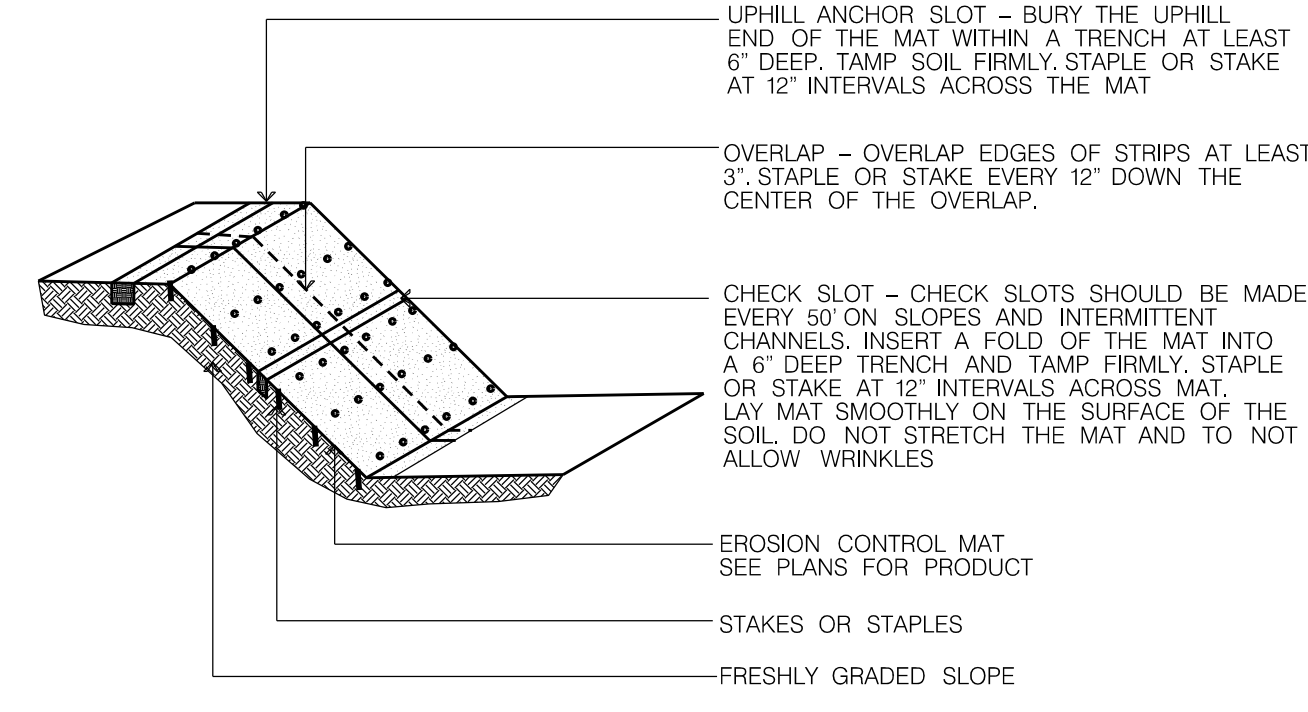
SHEET DESCRIPTION
SITE DETAILS - 1



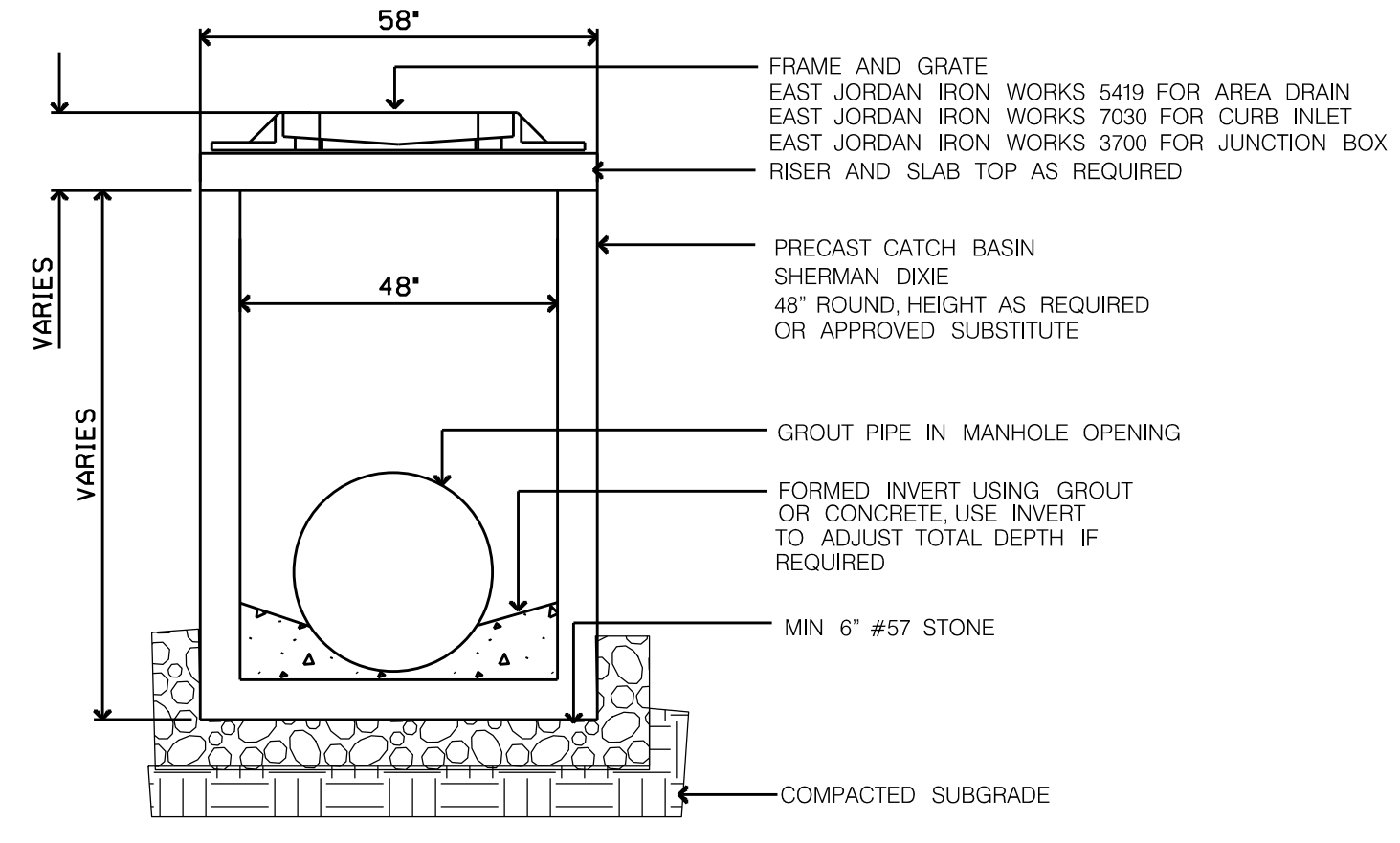
1 CONSTRUCTION ENTRANCE DETAIL
C202 NOT TO SCALE



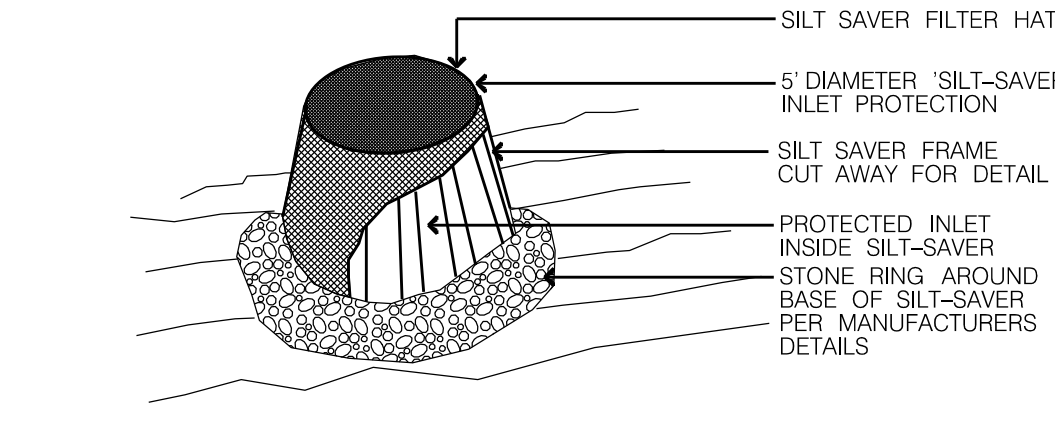
2 SILT FENCE DETAIL
C202 NOT TO SCALE



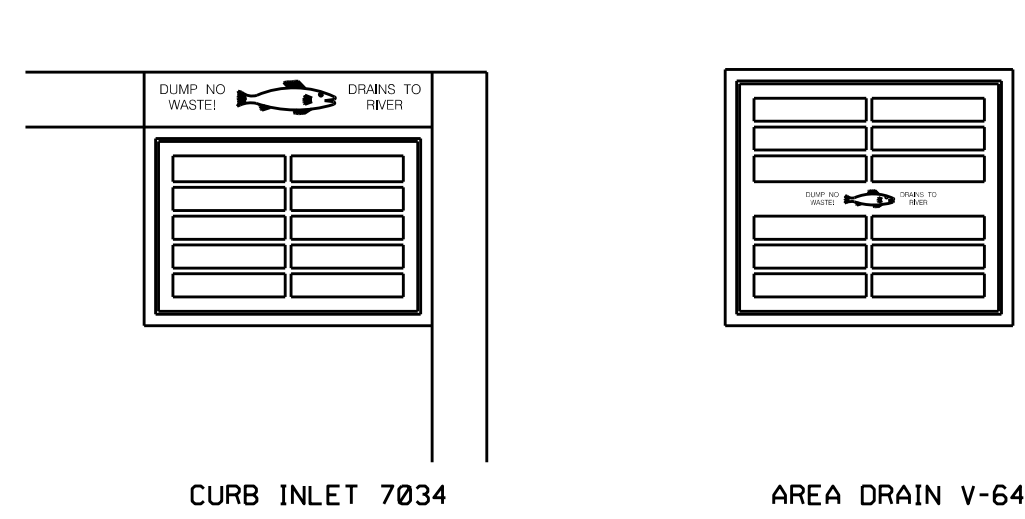
3 EROSION MAT INSTALLATION
C202 NOT TO SCALE



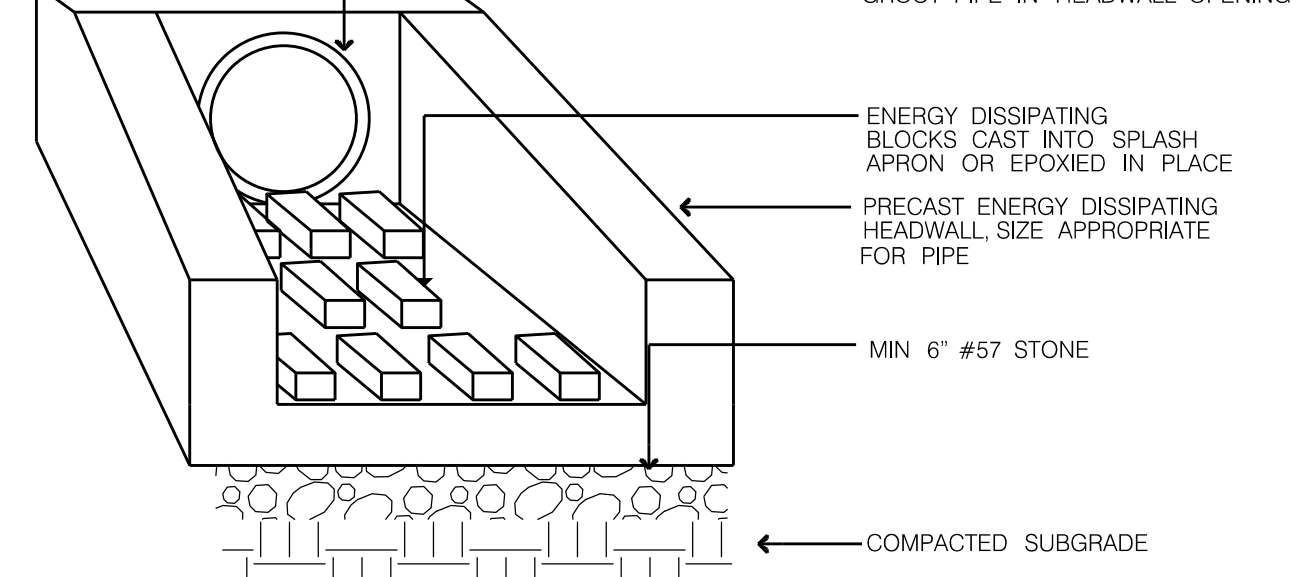
4 48" ROUND CATCH BASIN DETAIL
C202 NOT TO SCALE



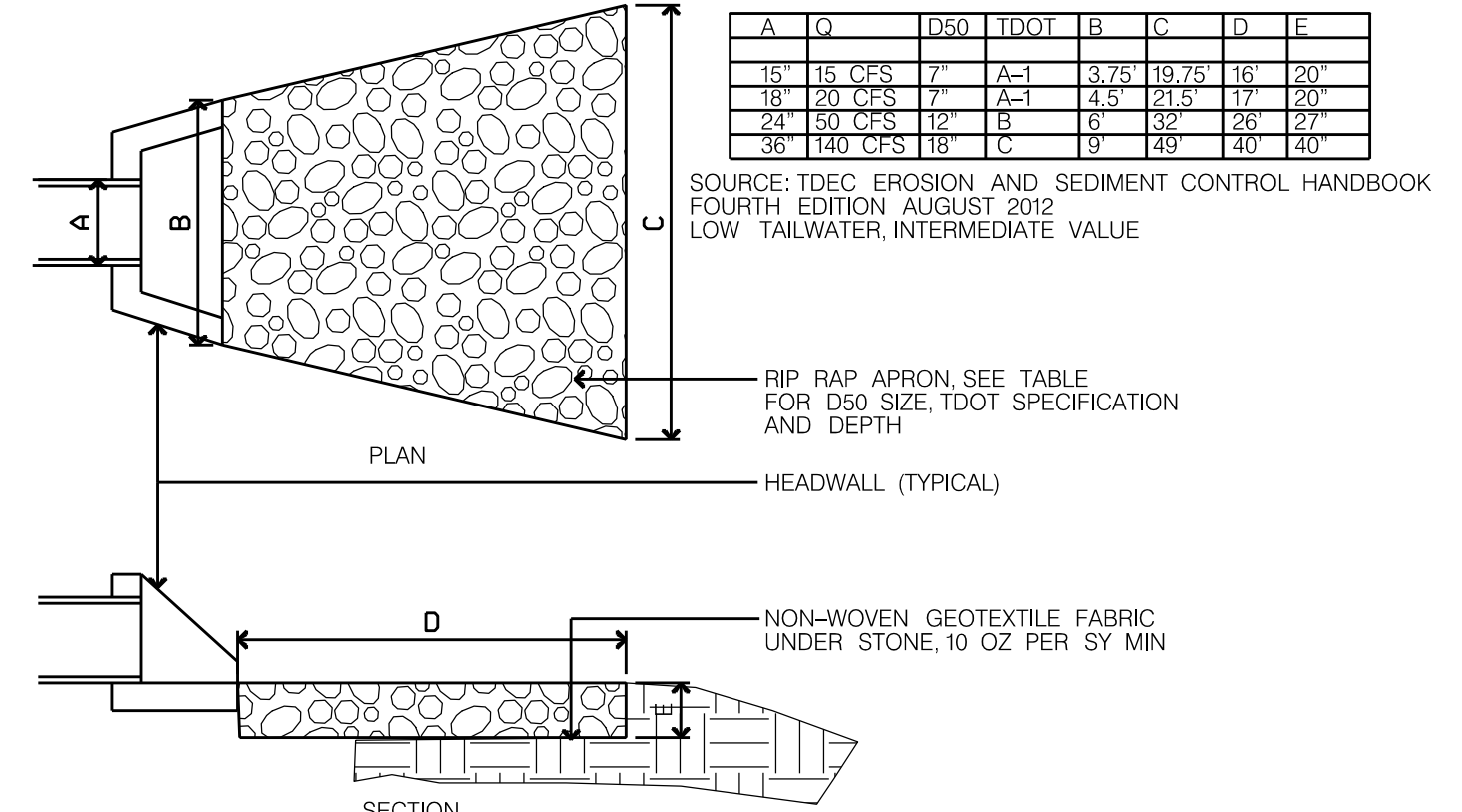
5 INLET PROTECTION DETAIL
C202 NOT TO SCALE



6 ENVIRONMENTAL MESSAGE DETAIL
C202 NOT TO SCALE



7 ENERGY DISSIPATING HEADWALL DETAIL
C202 NOT TO SCALE



8 LOW TAILWATER OUTLET PROTECTION DETAIL
C202 NOT TO SCALE

A	D	D50	D100	R	C	D	F
15'	15'	CS	7'	A-1	5.25'	10.75'	16'
18'	15'	CS	7'	A-1	5.25'	10.75'	18'
24'	15'	CS	12'	B	6'	13'	20'
30'	15'	CS	18'	C	12'	19'	25'

SOURCE: TDEC EROSION AND SEDIMENT CONTROL HANDBOOK, FOURTH EDITION AUGUST 2012, LOW TAILWATER, INTERMEDIATE VALUE

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST TO THE ORIGINAL DRAWING. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DIMENSIONS AND SPECIFICATIONS ARE BASED ON THE DRAWINGS. THE COPYRIGHT © IS DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
SITE DETAILS - 2

C202

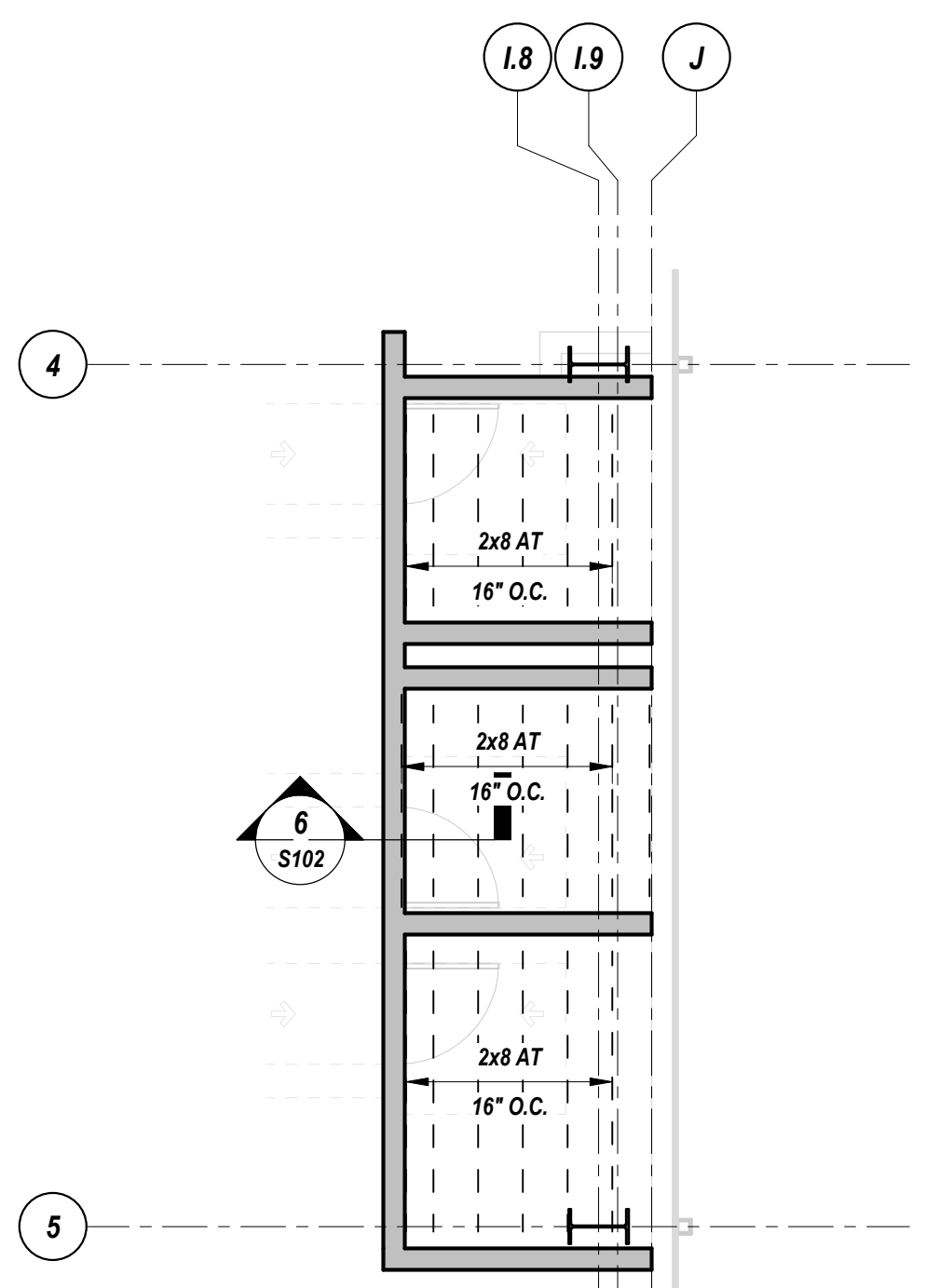
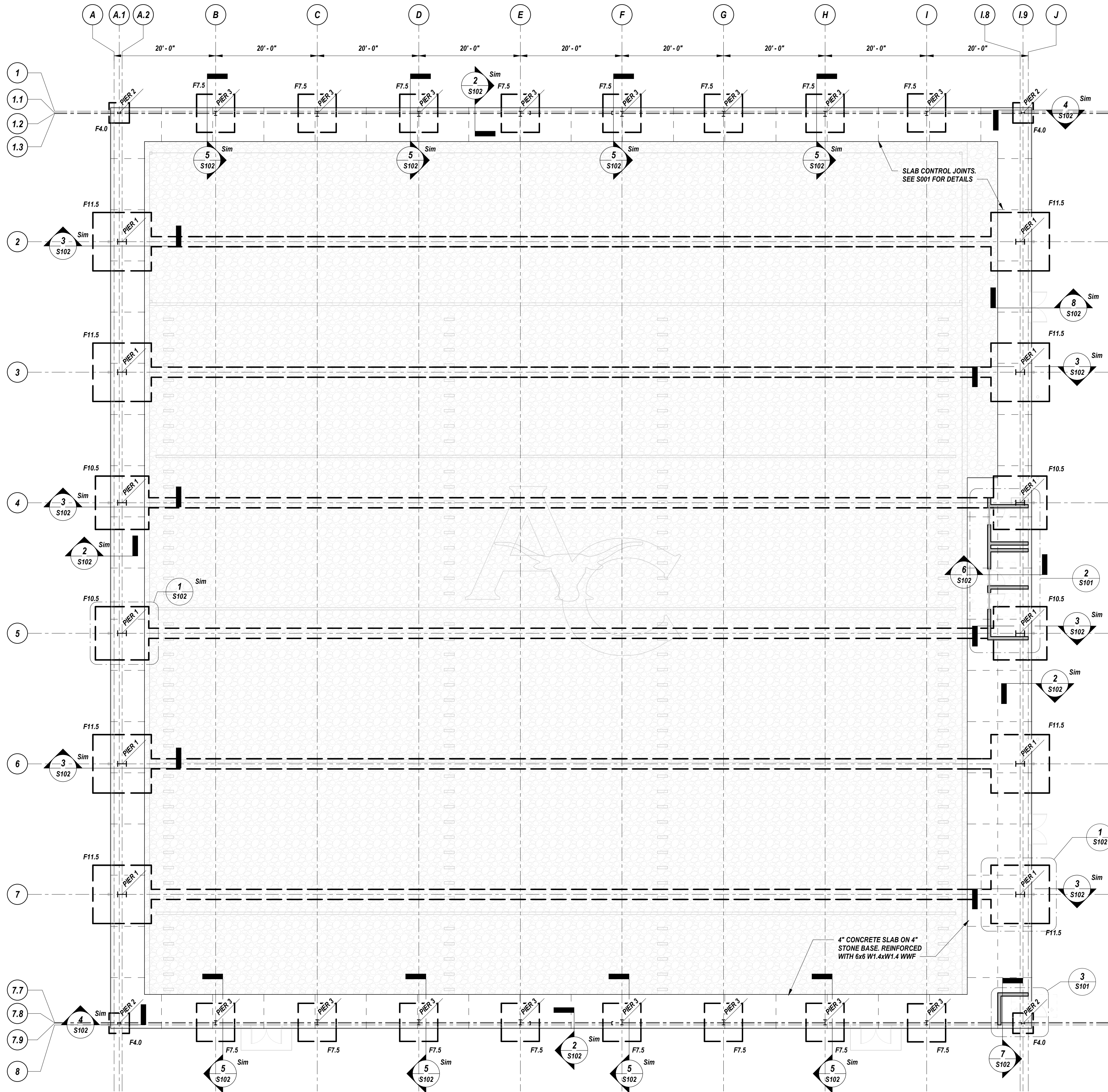
PROJECT DATE PROJECT NUMBER
2023-10-17 23030

STRUCTURAL FOUNDATION NOTES

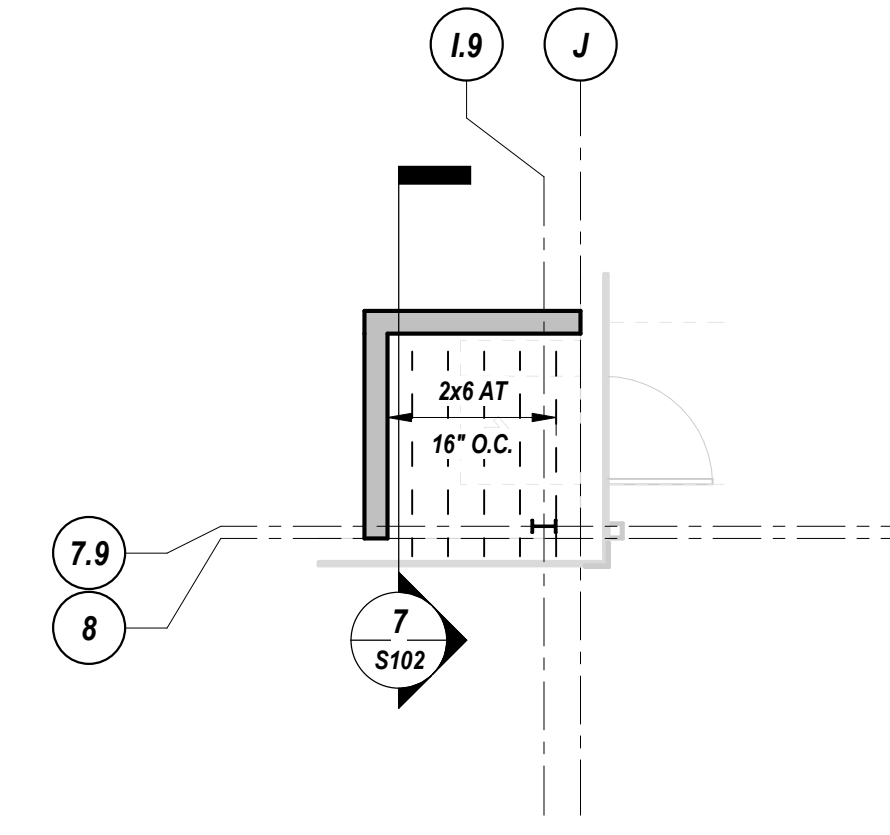
- 1. VERIFY DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS
- 2. VERIFY ALL COLUMNS, COLUMN LAYOUT AND ANCHOR BOLT LAYOUT WITH THE PERMS MANUFACTURER
- 3. VERIFY OPENINGS AND CANOPY LOCATIONS WITH ARCHITECTURAL DRAWINGS

STRUCTURAL FOUNDATION SCHEDULE

MARK	SIZE	REINFORCEMENT	ANCHOR BOLT EMBEDMENT
F4.0	4'-0" x 4'-0" x 1'-0" (4) #5 EACH WAY, BOTTOM		6"
F7.5	7'-8 1/2" x 6'-1" x 1'-0" 7 #5 BARS TOP AND BOTTOM, EACH DIRECTION		8"
F10.5	10'-6" x 10'-4 1/2" x 2'-0" 10 #5 BARS TOP AND BOTTOM, EACH DIRECTION		15"
F11.5	11'-6" x 11'-6" x 2'-0" 11 #5 BARS TOP AND BOTTOM, EACH DIRECTION		18"

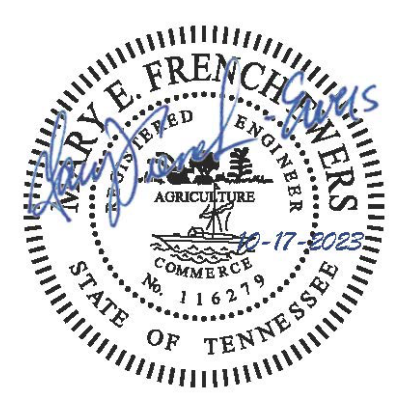


2 PARTIAL CEILING FRAMING PLAN
SCALE: 3/16" = 1'-0"



3 PARTIAL CEILING FRAMING PLAN
SCALE: 3/16" = 1'-0"

1 FOUNDATION PLAN
SCALE: 3/32" = 1'-0"

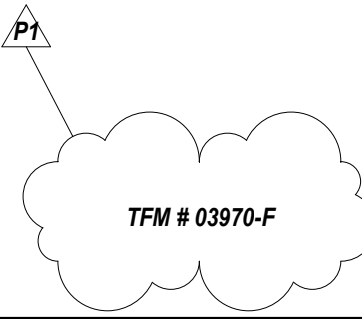


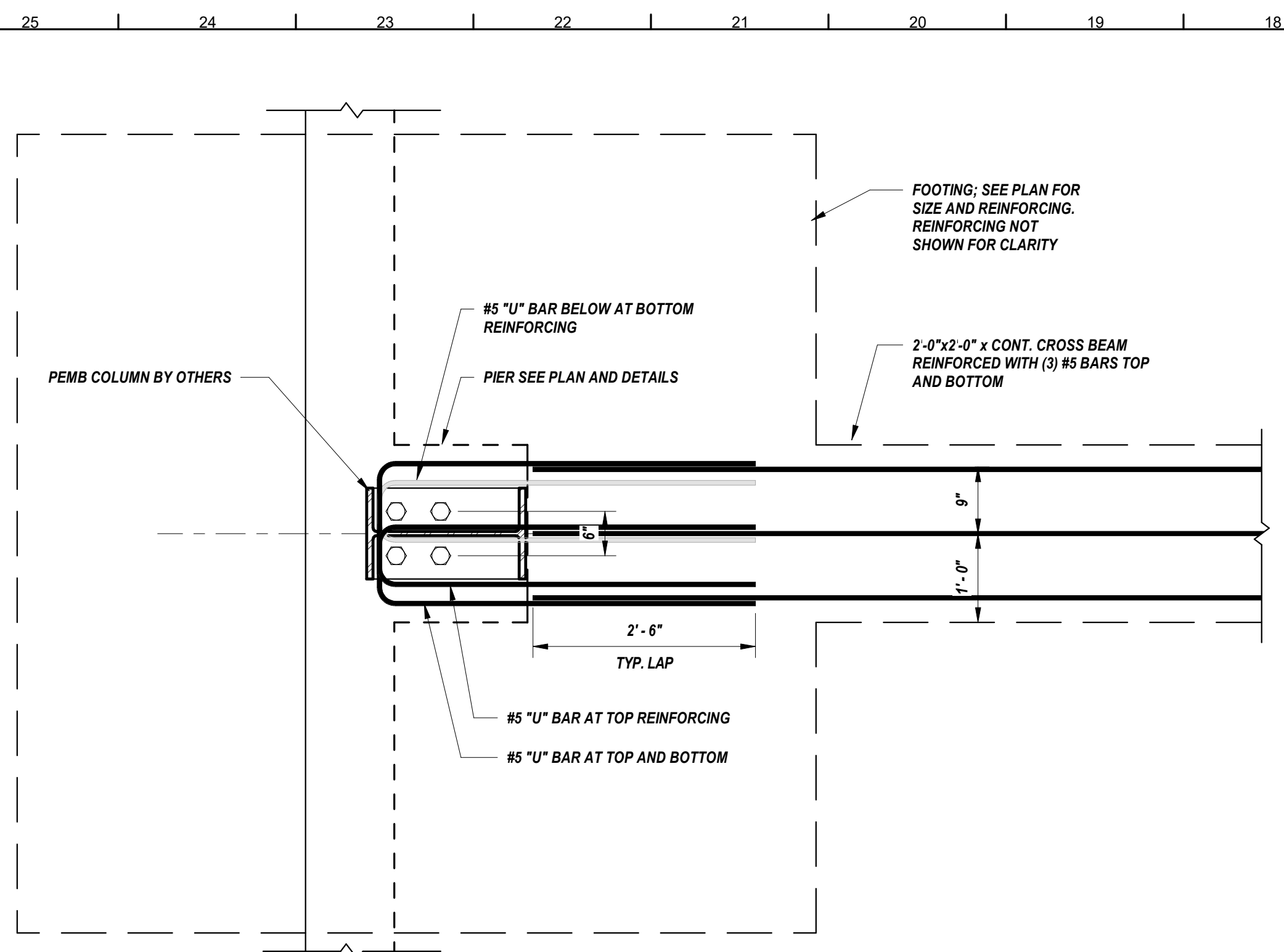
A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

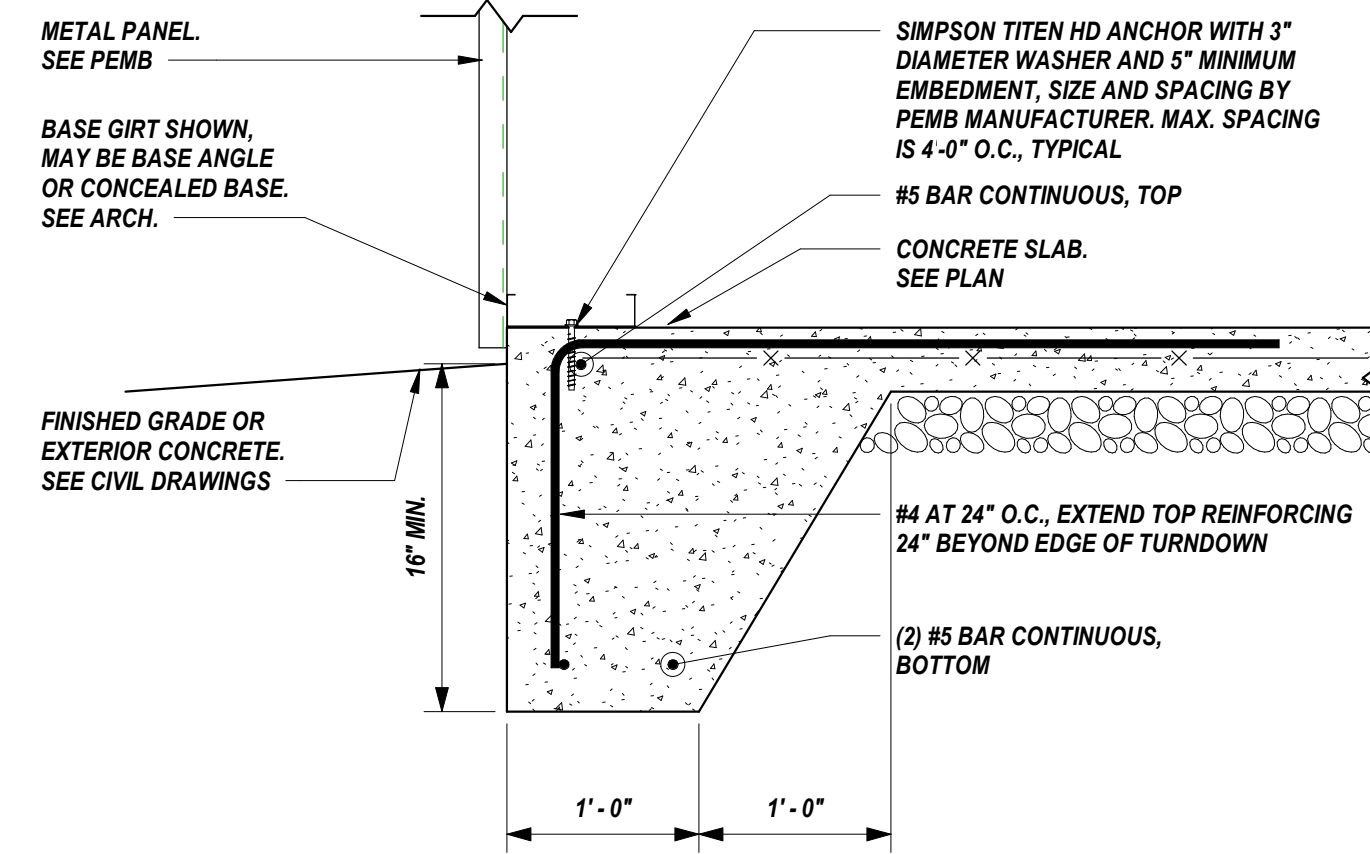
THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED FOR ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FOUNDATION PLAN

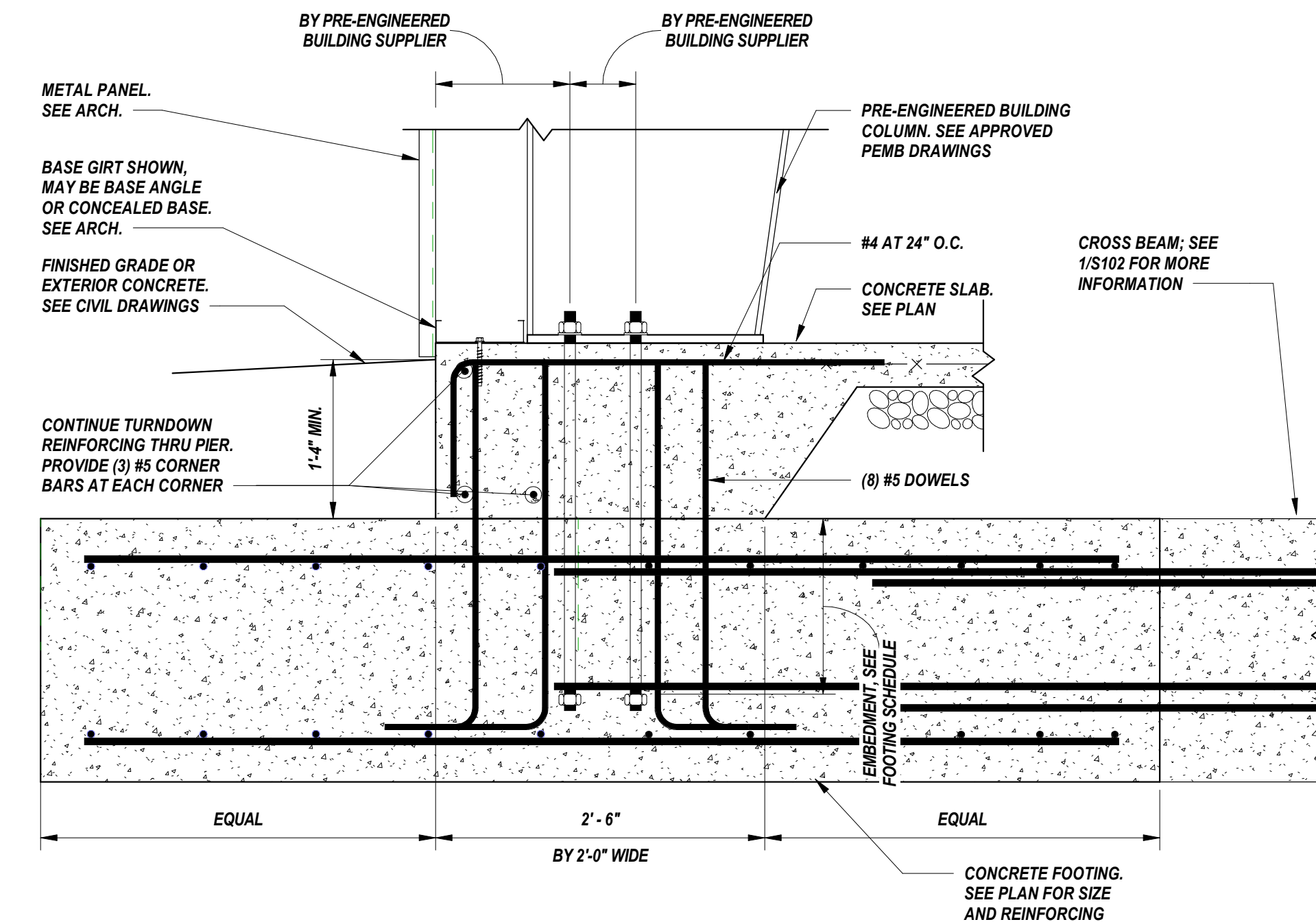




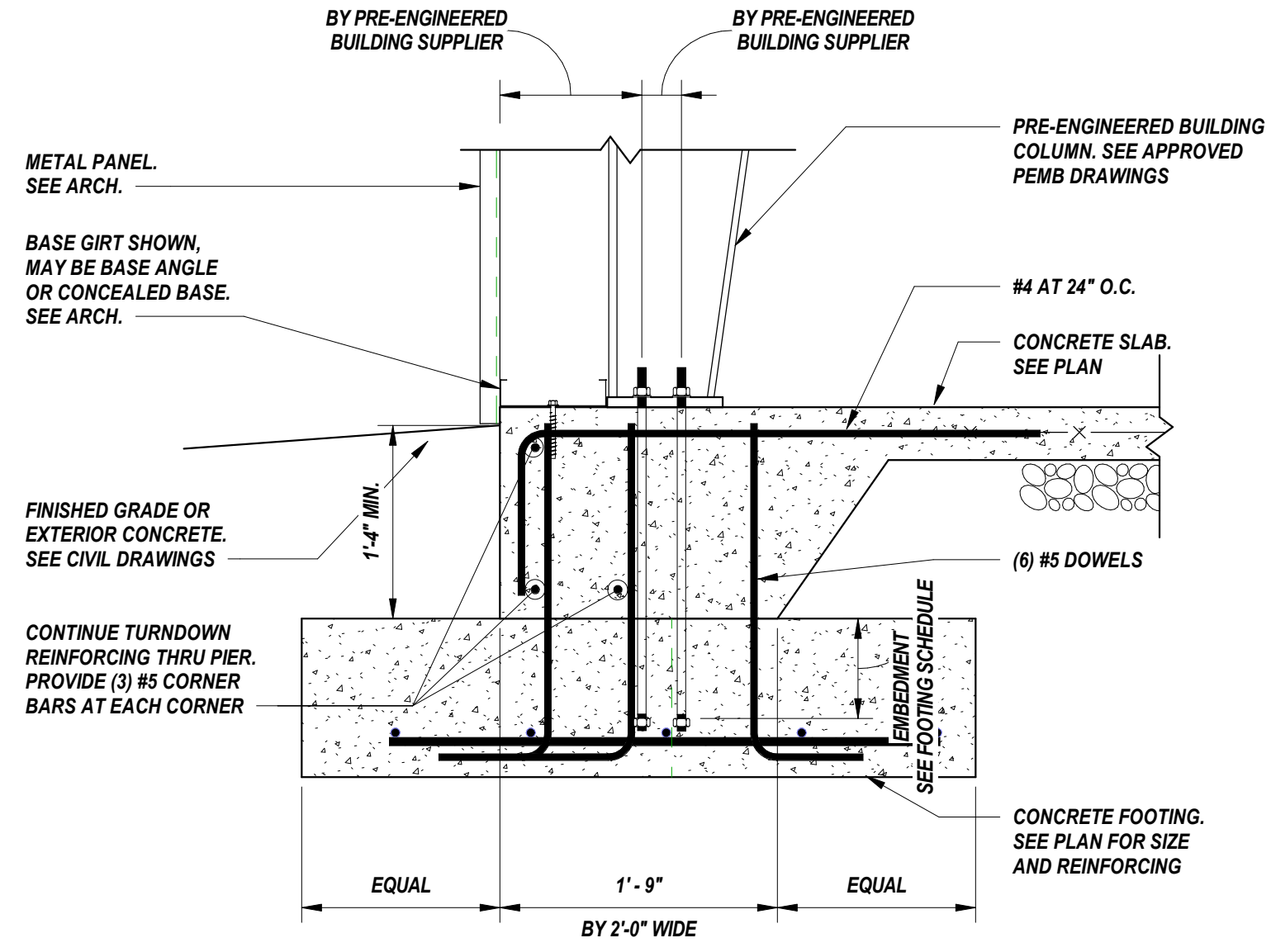
1 DETAIL - CROSS BEAM
S102 SCALE: NTS



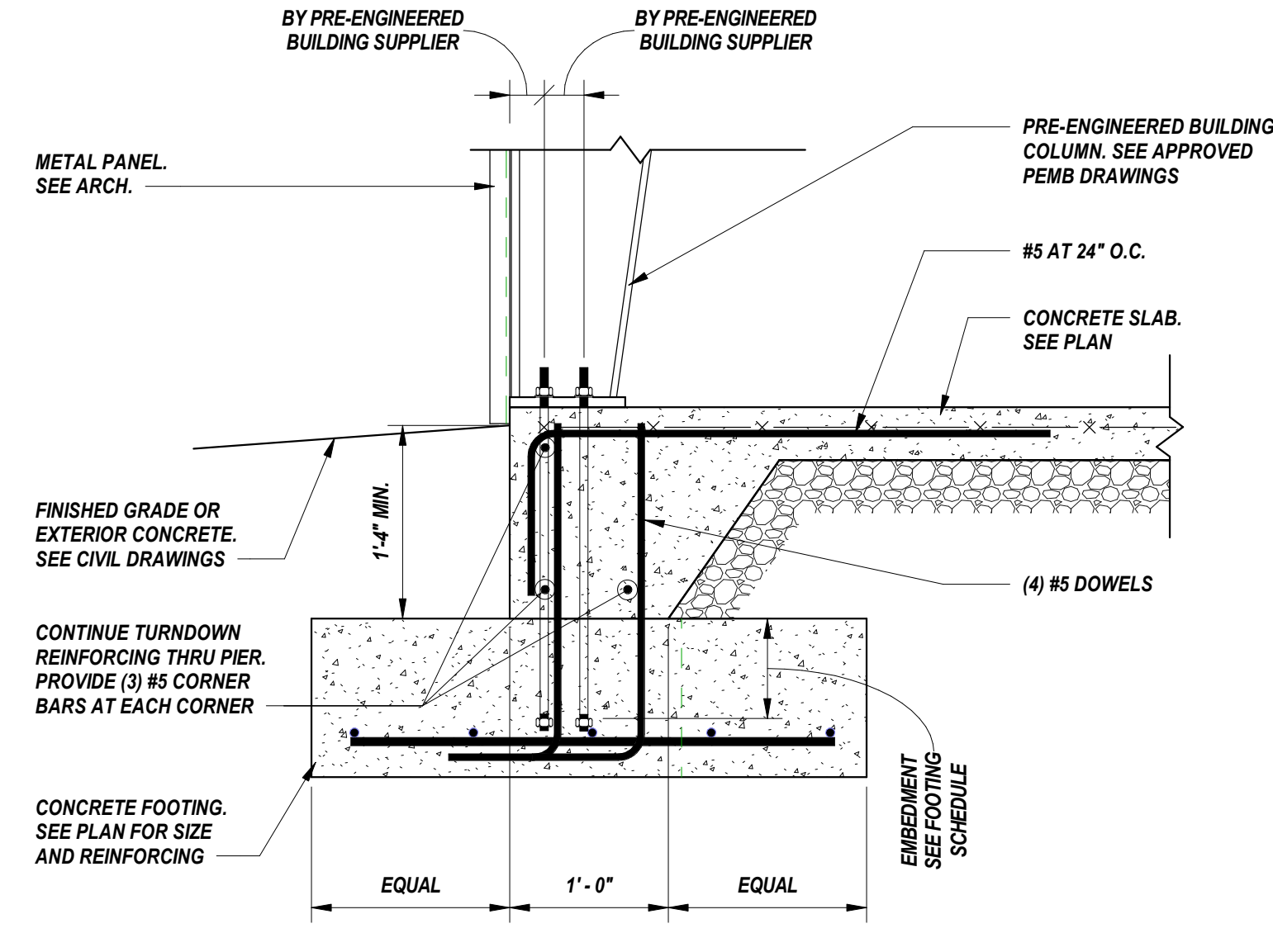
2 SECTION
S102 SCALE: 1" = 1'-0"



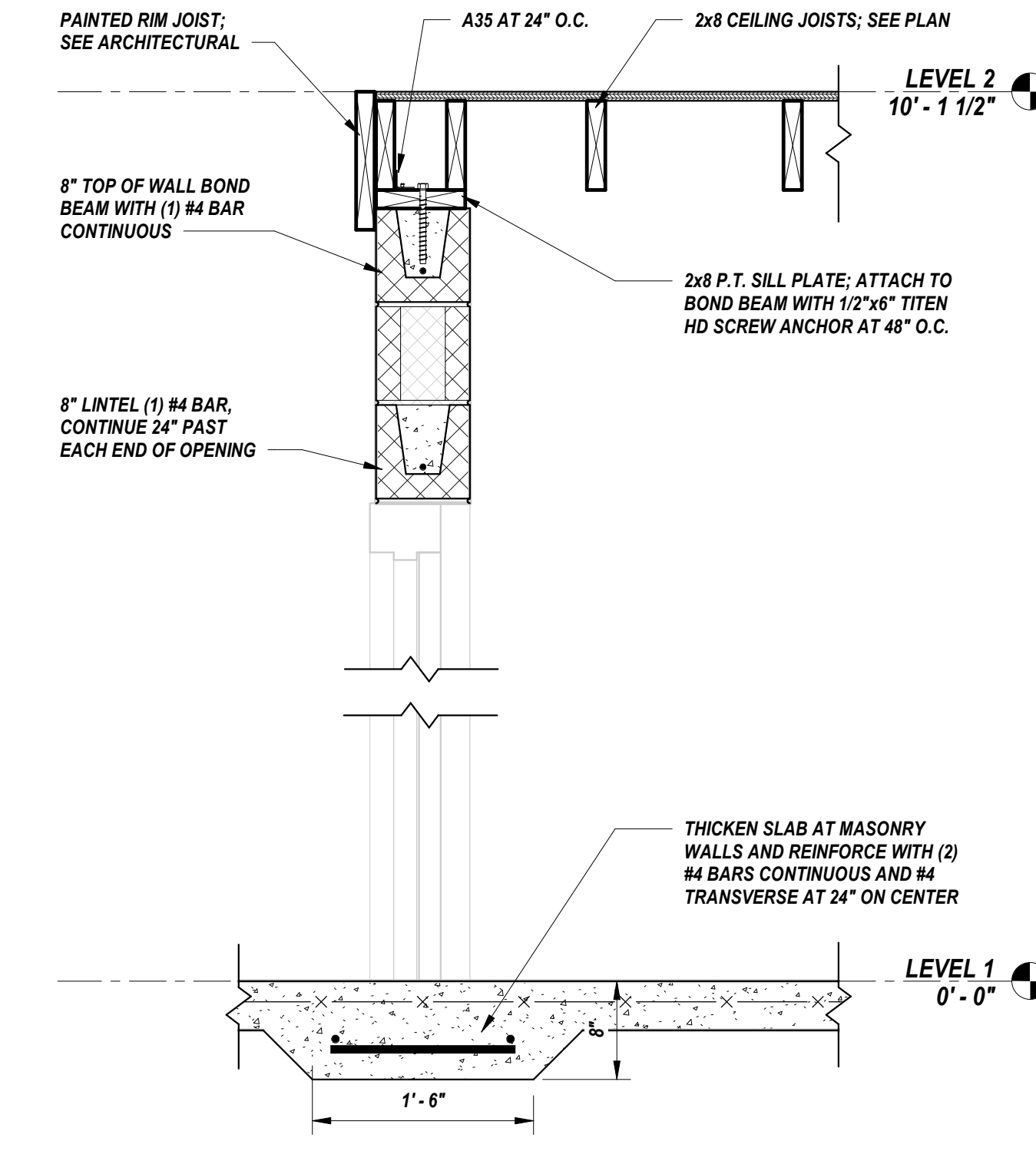
3 SECTION - PIER 1
S102 SCALE: 1" = 1'-0"



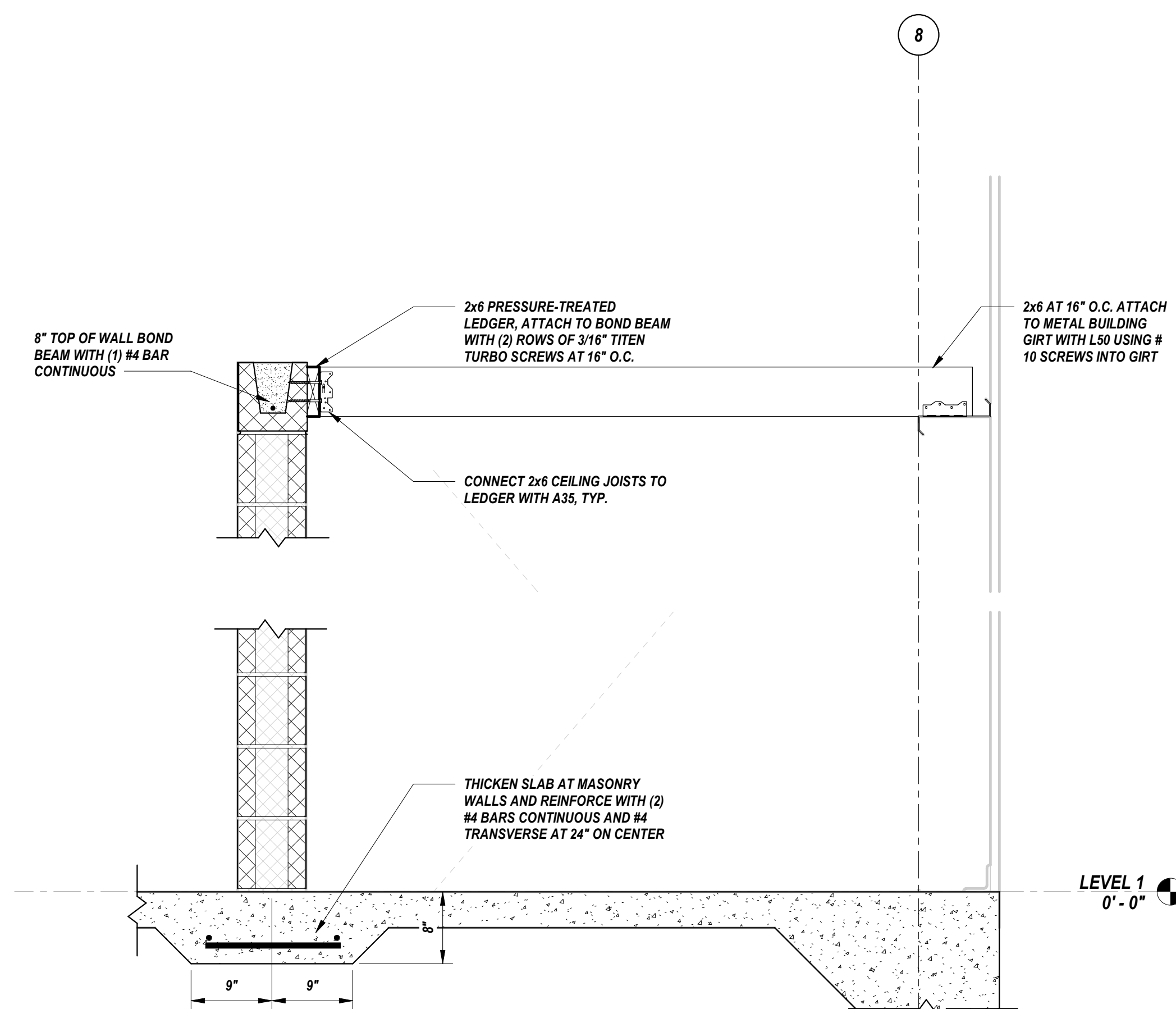
4 SECTION - PIER 2
S102 SCALE: 1" = 1'-0"



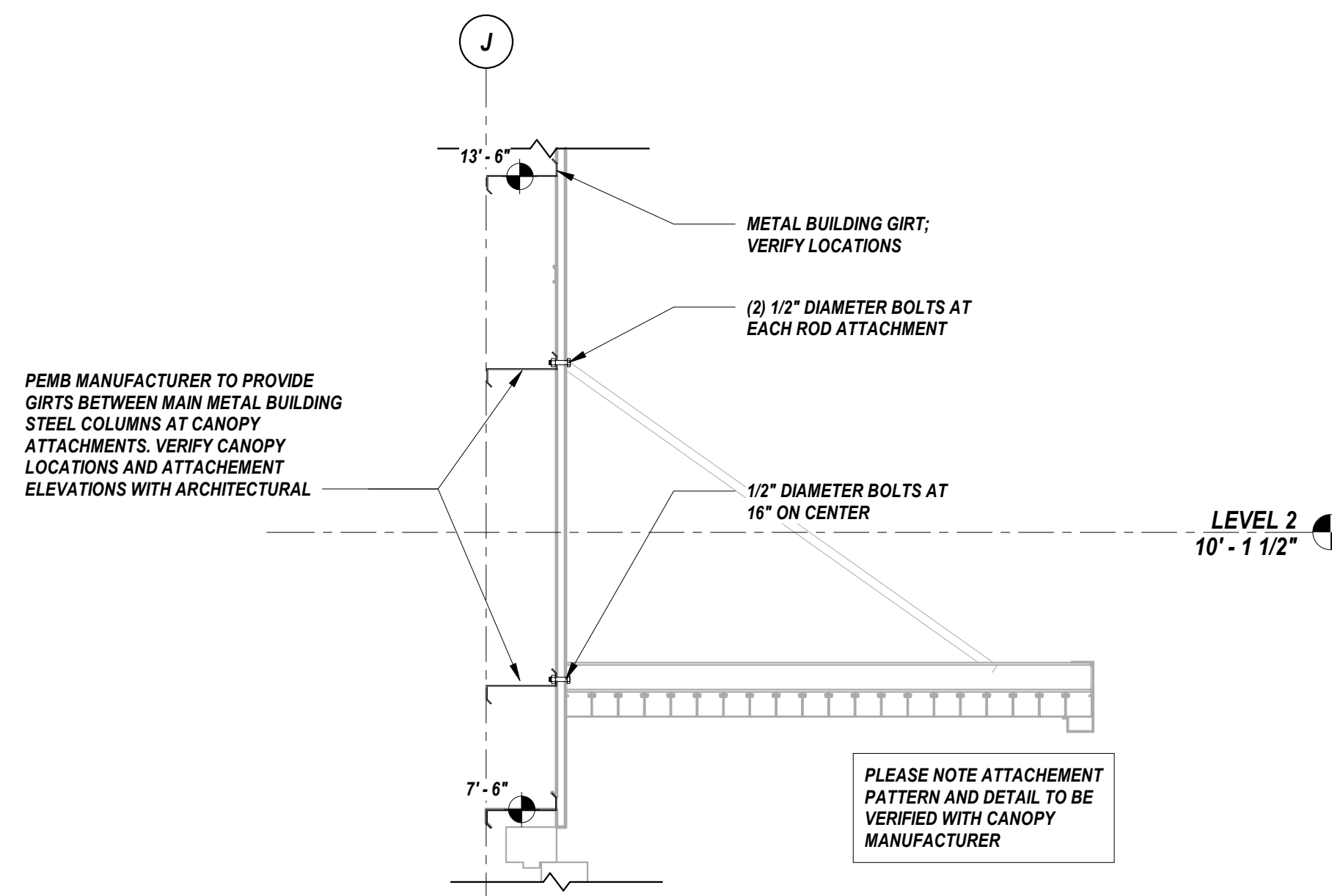
5 SECTION - PIER 3
S102 SCALE: 1" = 1'-0"



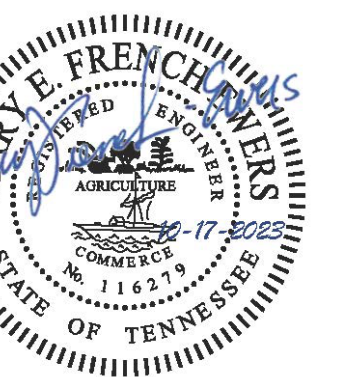
6 SECTION
S102 SCALE: 1" = 1'-0"



7 SECTION
S102 SCALE: 1" = 1'-0"



8 SECTION
S102 SCALE: 3/4" = 1'-0"



A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
SECTIONS AND DETAILS

S102

PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23038

TFM # 03970-F

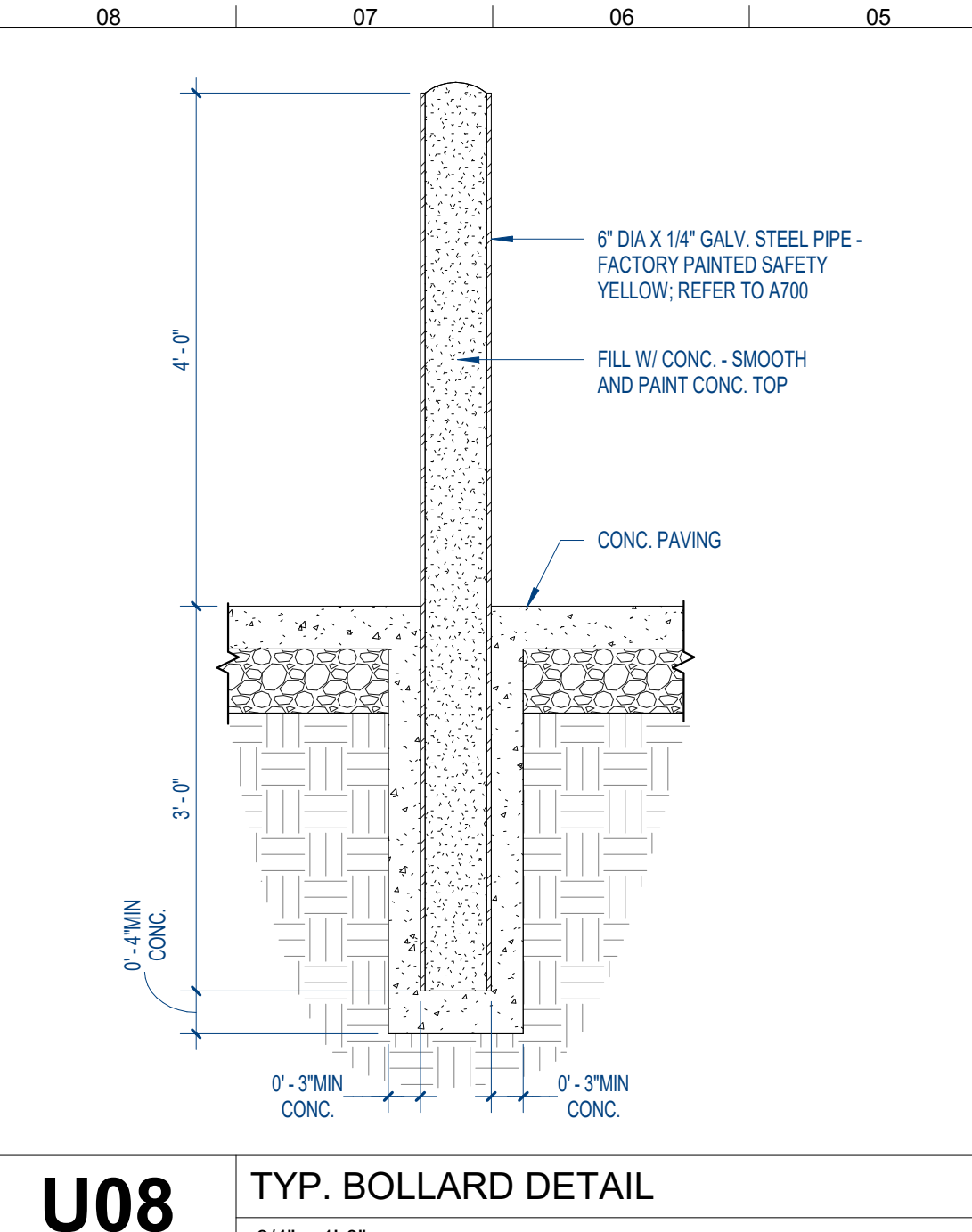
25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 09 08 07 06 05 04 03 02 01

Z
Y
X
W
V
U
T
S
R
Q
P
N
M
L
K
J
I
H
G
F
E
D
C
B
A

12/1/2023 1:31:00 PM

GENERAL NOTES

ARCH SITE PLAN

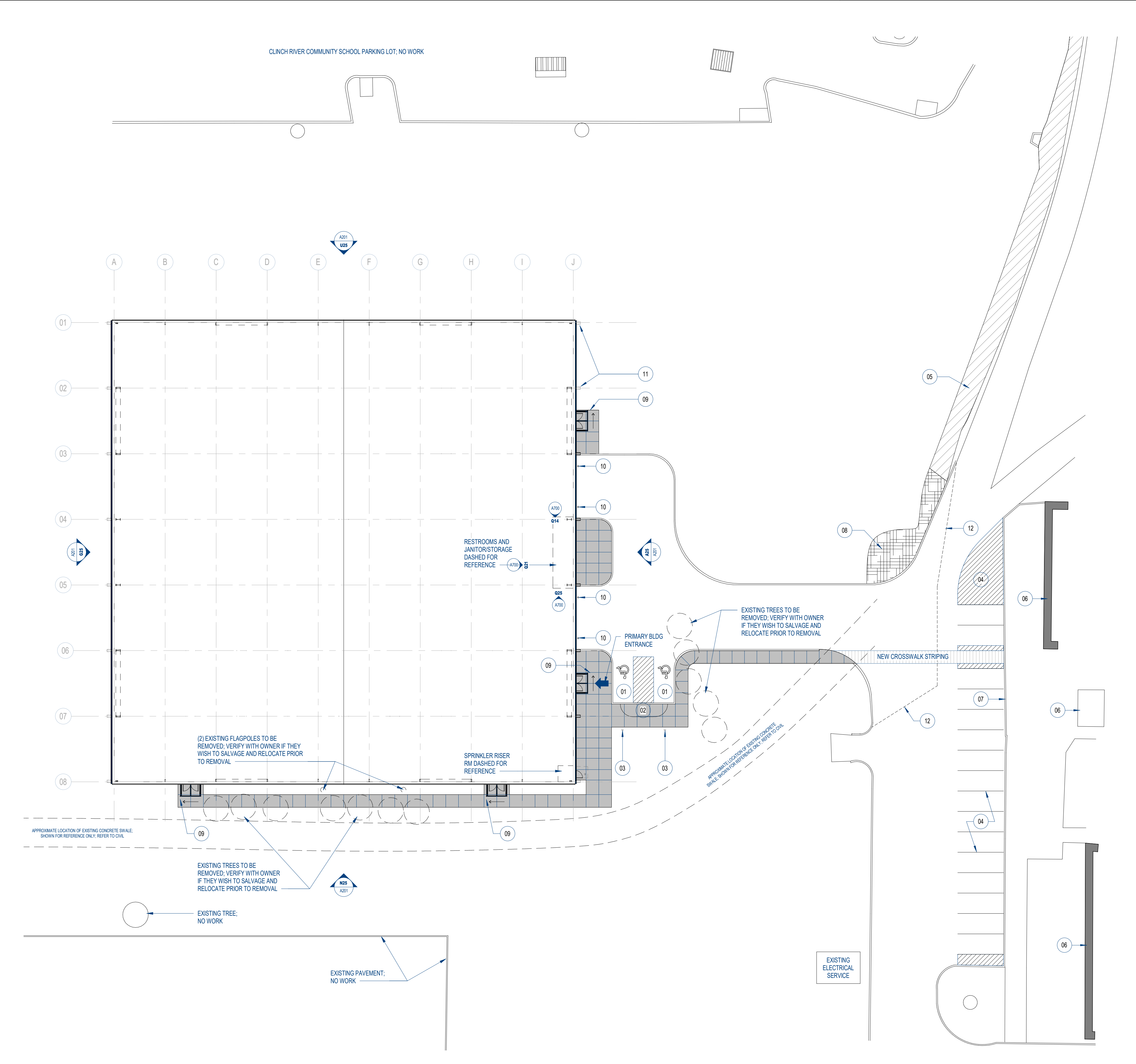


KEYED NOTES

ARCH SITE PLAN

- 01 ACCESSIBLE PARKING SPACES - REFER TO CIVIL
- 02 ACCESSIBLE RAMP AND TACTILE WARNING SURFACE - REFER TO CIVIL
- 03 POST MOUNTED ACCESSIBLE PARKING SIGNAGE - REFER TO CIVIL
- 04 RE-STRIP EXISTING PAVING
- 05 APPROXIMATE EXTENT OF EXISTING RIP RAP. FIELD VERIFY
- 06 EXISTING BUILDING. NO WORK.
- 07 EXISTING CURB. FIELD VERIFY. NO WORK.
- 08 RIP RAP OVER GEOTEXTILE FABRIC. REFER TO CIVIL DRAWINGS
- 09 CANOPY, TYPICAL AT EACH BUILDING ENTRANCE. DRAIN TO KEYNOTE LEADER SIDE. ARROW INDICATES DIRECTION OF DRAIN
- 10 BOLLARD. TYPICAL EACH SIDE OF OVERHEAD DOOR. EACH OVERHEAD DOOR RECEIVES FOUR BOLLARDS
- 11 PROVIDE PRECAST CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT UNLESS NOTED OTHERWISE
- 12 APPROXIMATE EXTENT OF NEW PAVEMENT. REFER TO CIVIL

TFM # 03970-F



A19 ARCH SITE PLAN
1" = 20'-0"
NEW CONSTRUCTION



DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

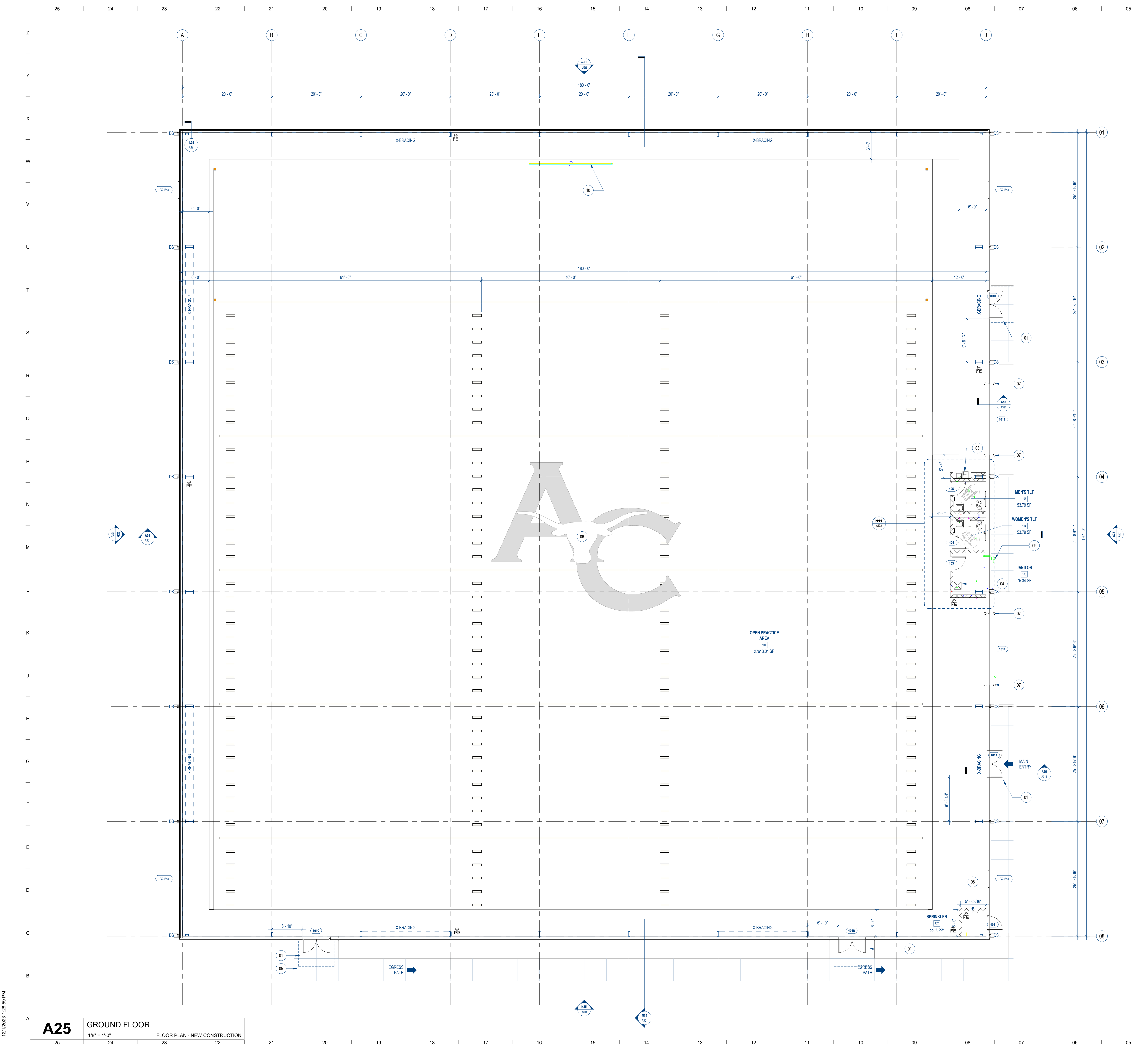
A NEW PROJECT FOR:
**ANDERSON COUNTY SPORTS
TRAINING FACILITY**
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR FORWARDED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
ARCHITECTURAL SITE
PLAN AND DETAILS

AS101
PROJECT DATE PROJECT NUMBER
2023-10-17 23030



A25 GROUND FLOOR
 1/8" = 1'-0"
 FLOOR PLAN - NEW CONSTRUCTION

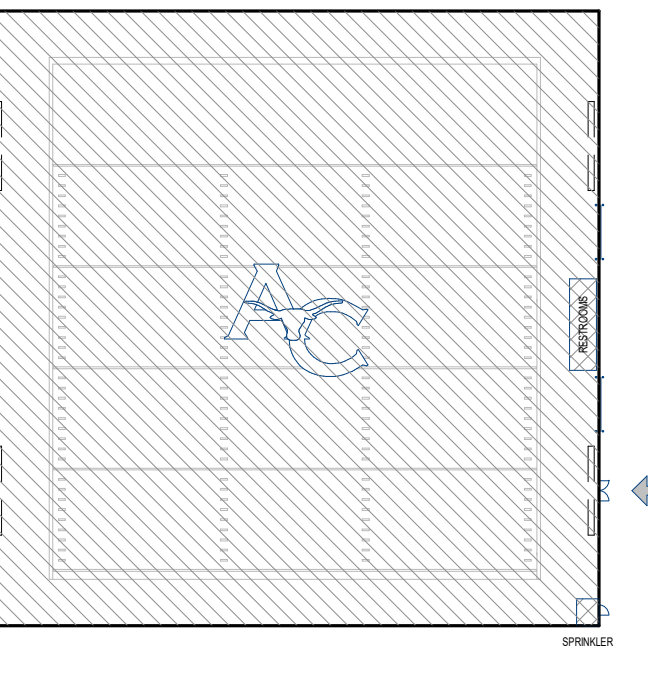
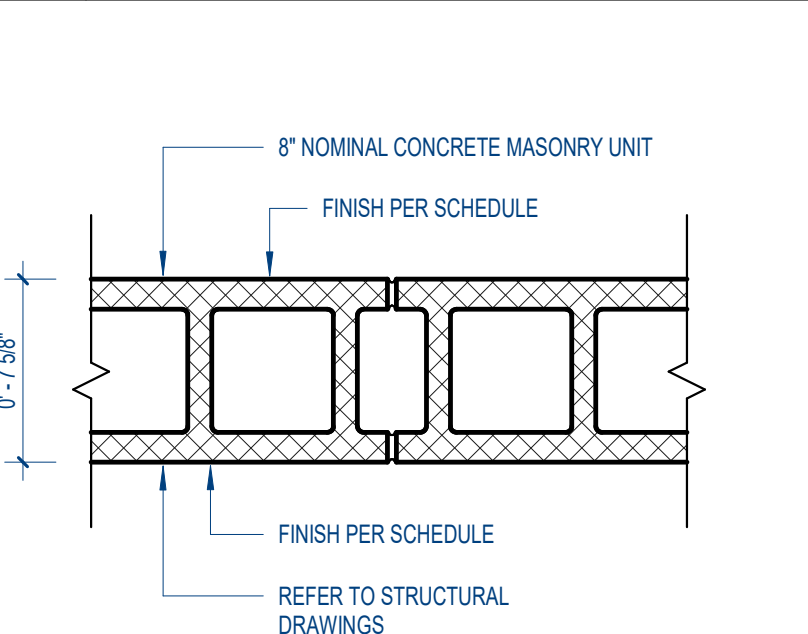
GENERAL NOTES

- A CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS CONCERNING THE SCOPE OF WORK OF THIS PROJECT PRIOR TO COMMENCING WITH THE ASSOCIATED WORK. IN THE EVENT THE DIMENSIONS ARE IN QUESTION OR IF ANY DISCREPANCIES ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK. FAILURE TO DO SO CONSTITUTES THE CONTRACTORS ACCEPTANCE OF THE WORK AS SHOWN.
- B DIMENSIONS ARE TO FACE OF STUD OR FACE OF MASONRY / CONCRETE, UNLESS NOTED OTHERWISE.
- C THE ROUGH OPENING OF A NEW DOOR GRAPHICALLY SHOWN IN THE CORNER OF A ROOM UNDIMENSIONED SHALL BE 2" OR 3" IN MASONRY WALLS (AS GRAPHICALLY INDICATED ON PLANS) OR 6" IN STUD FRAMED WALLS (AS GRAPHICALLY INDICATED ON PLANS) FROM THE INSIDE CORNER, UNLESS NOTED OR DIMENSIONED OTHERWISE.
- D THE ROUGH OPENING OF A NEW DOOR GRAPHICALLY SHOWN IN THE CENTER OF A WALL UNDIMENSIONED SHALL BE ENTERED ON WALL, UNLESS NOTED OR DIMENSIONED OTHERWISE.
- E IN SPACES OPEN TO EXPOSED STRUCTURE ABOVE, PERIMETER WALLS OF SPACE SHALL EXTEND TO UNDERSIDE OF ROOF / FLOOR DECKING ABOVE.
- F ALL WALLS ARE TO BE EXTENDED TO UNDERSIDE OF DECK (ROOF OR FLOOR), UNLESS NOTED OTHERWISE.
- G ALL LOCATIONS WHERE BRICK VENEER BUTTS INTO CMU OR CAST STONE, A SOFT JOINT WITH BACKER ROD AND SEALANT SHALL BE PROVIDED.
- H ALL EXPOSED STEEL SHALL BE FULLY AND COMPLETELY PAINTED WITH HIGH PERFORMANCE & FIRE RESISTIVE COATINGS PRIOR TO INSTALLATION, UNLESS NOTED OTHERWISE. REFER TO STRUCTURAL DRAWINGS & SPECIFICATIONS.

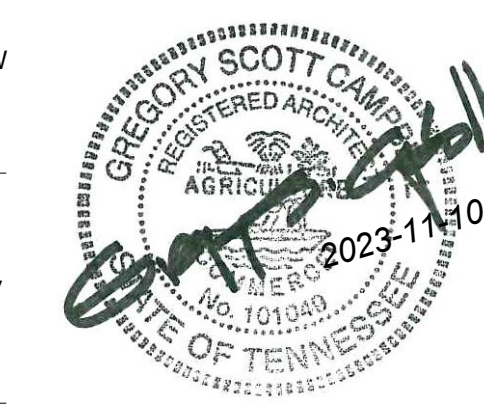
KEYED NOTES

- 01 CANOPY ABOVE
- 02 BOTTLE FILLER AND DRINKING FOUNTAIN
- 03 SERVICE SINK
- 04 CONCRETE PAD
- 06 GRAPHIC SHOWN FOR REFERENCE ONLY, NOT IN CONTRACT.
- 07 PAINTED BOLLARD, GALVANIZED AND FACTORY PAINTED. COLOR TO BE SELECTED FROM MANUFACTURER'S STANDARD RANGE. PROVIDE (4) BOLLARDS PER OVERHEAD SECTIONAL DOOR.
- 08 WALL HEATER, REFER TO MECHANICAL DRAWINGS
- 09 GAS METER, REFER TO MEP
- 10 SPORTS EQUIPMENT SHOWN FOR REFERENCE ONLY, NOT IN CONTRACT.

TYPICAL WALL TYPE



DIA
 Design Innovation
 ARCHITECTS + INTERIORS + PLANNING
 402 S. Gay Street, Suite 201, Knoxville, TN 37902
 ph 865.637.8540 / fx 865.544.3940
 www.dia-arch.com



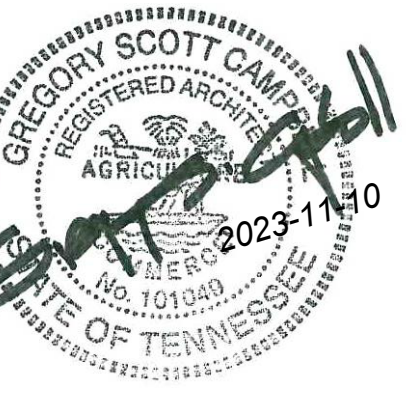
A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FIRST FLOOR PLAN

A101
 PROJECT DATE: 2023-10-17
 PROJECT NUMBER: 23030



GENERAL NOTES

ACCESSIBLE FIXTURES

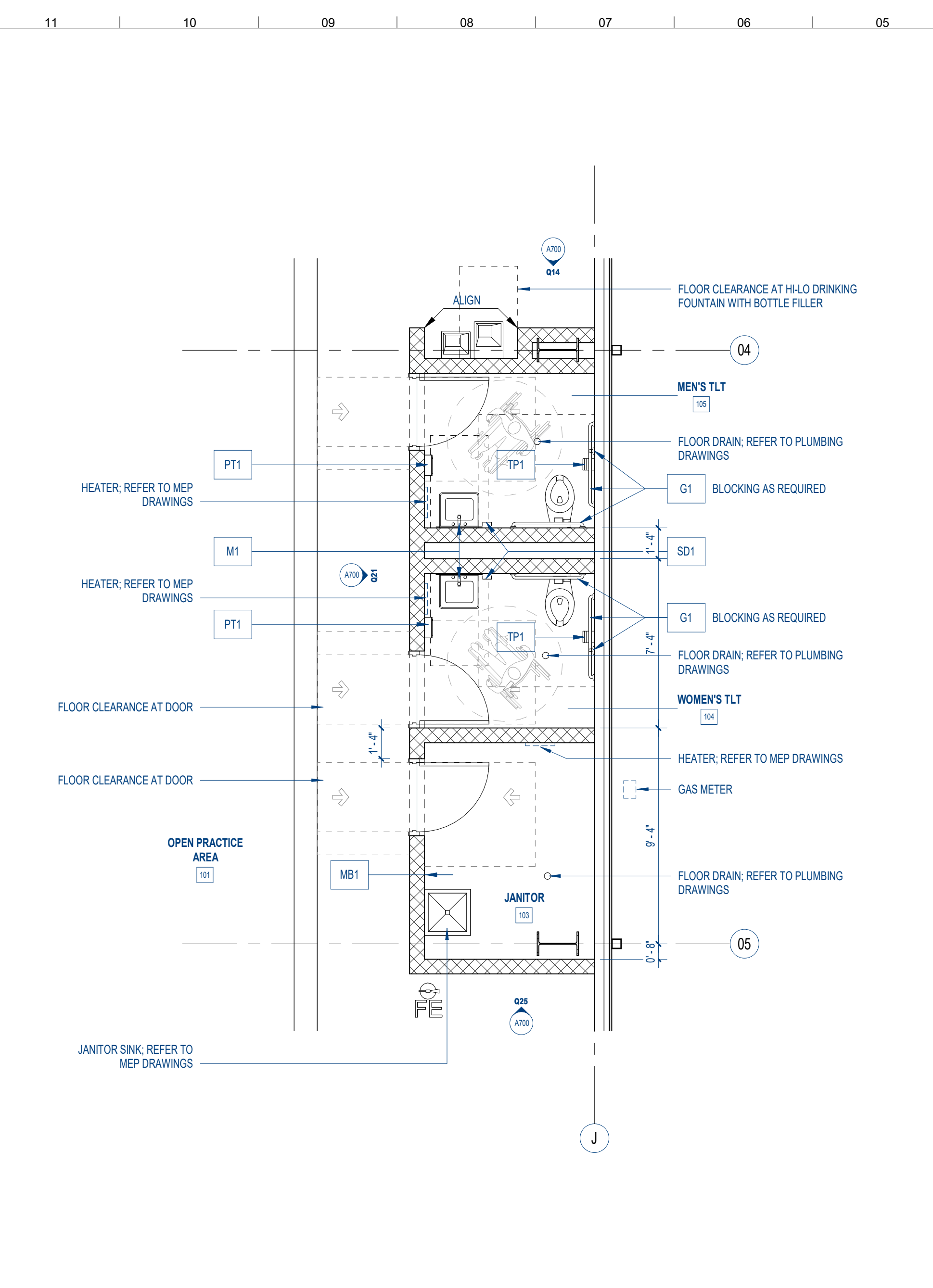
- TOILET FIXTURES:**
 A. DIAGRAMS ARE BASED ON ICC A117.1-2009
 B. THE REQUIRED CLEARANCE AROUND THE WATER CLOSET SHALL BE PERMITTED TO OVERLAP THE WATER CLOSET, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES, & THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE LOCATED WITHIN THE REQUIRED WATER CLOSET CLEARANCE.

TFM # 03970-F

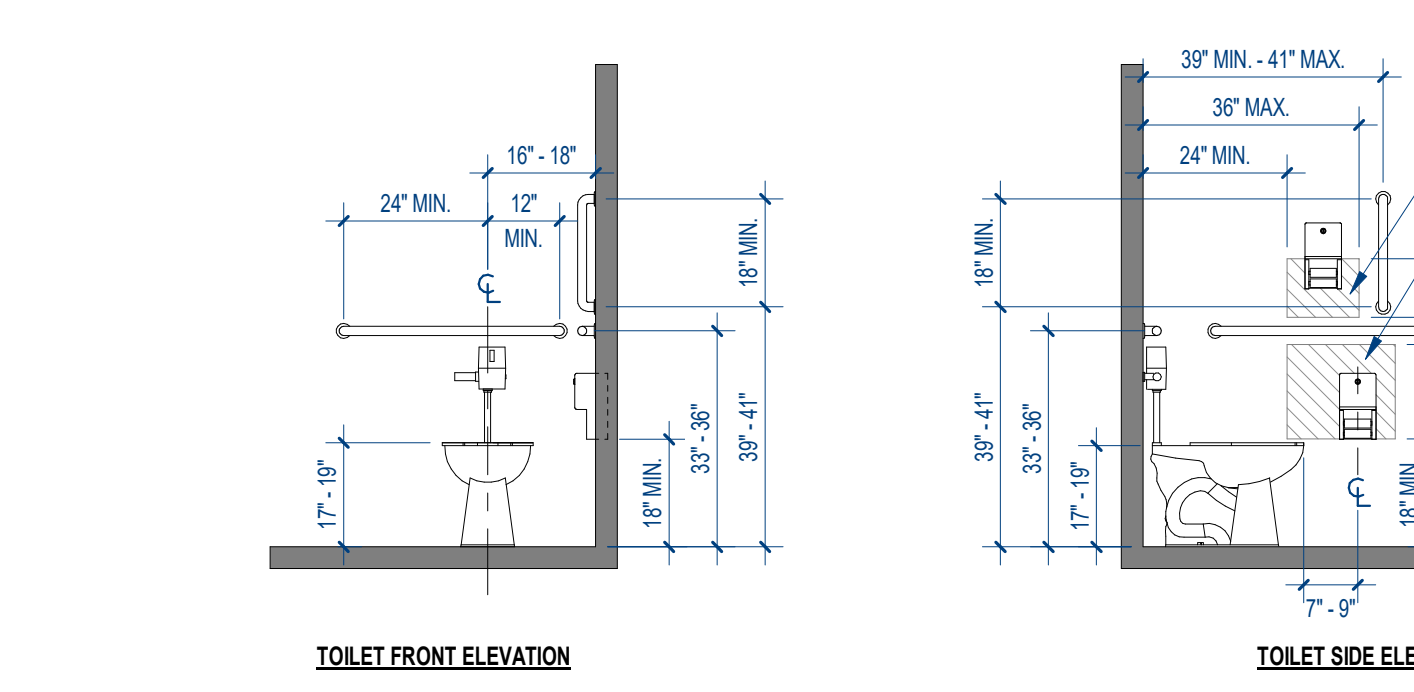
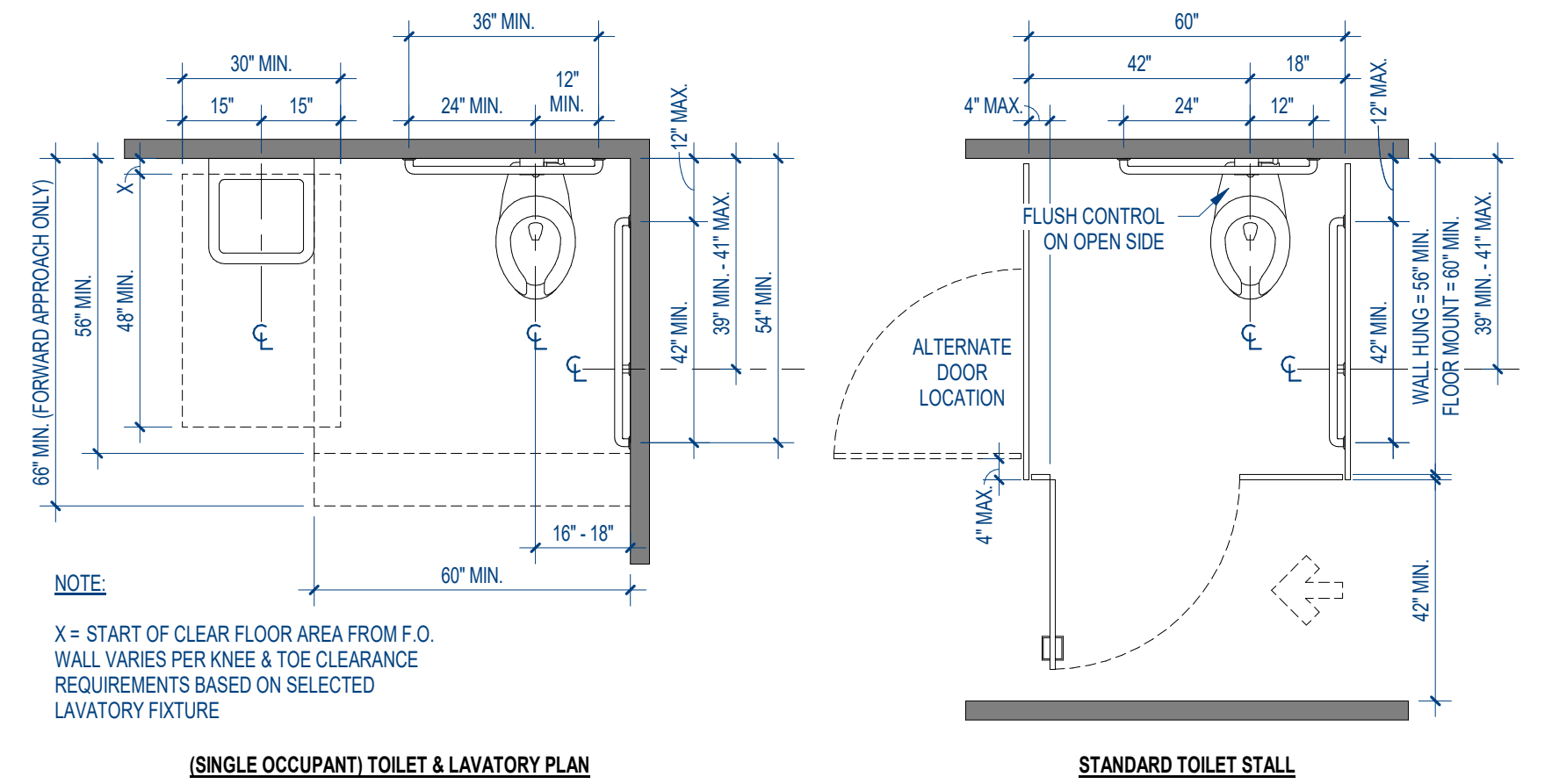
GENERAL NOTES

GRAB BAR REINFORCEMENT

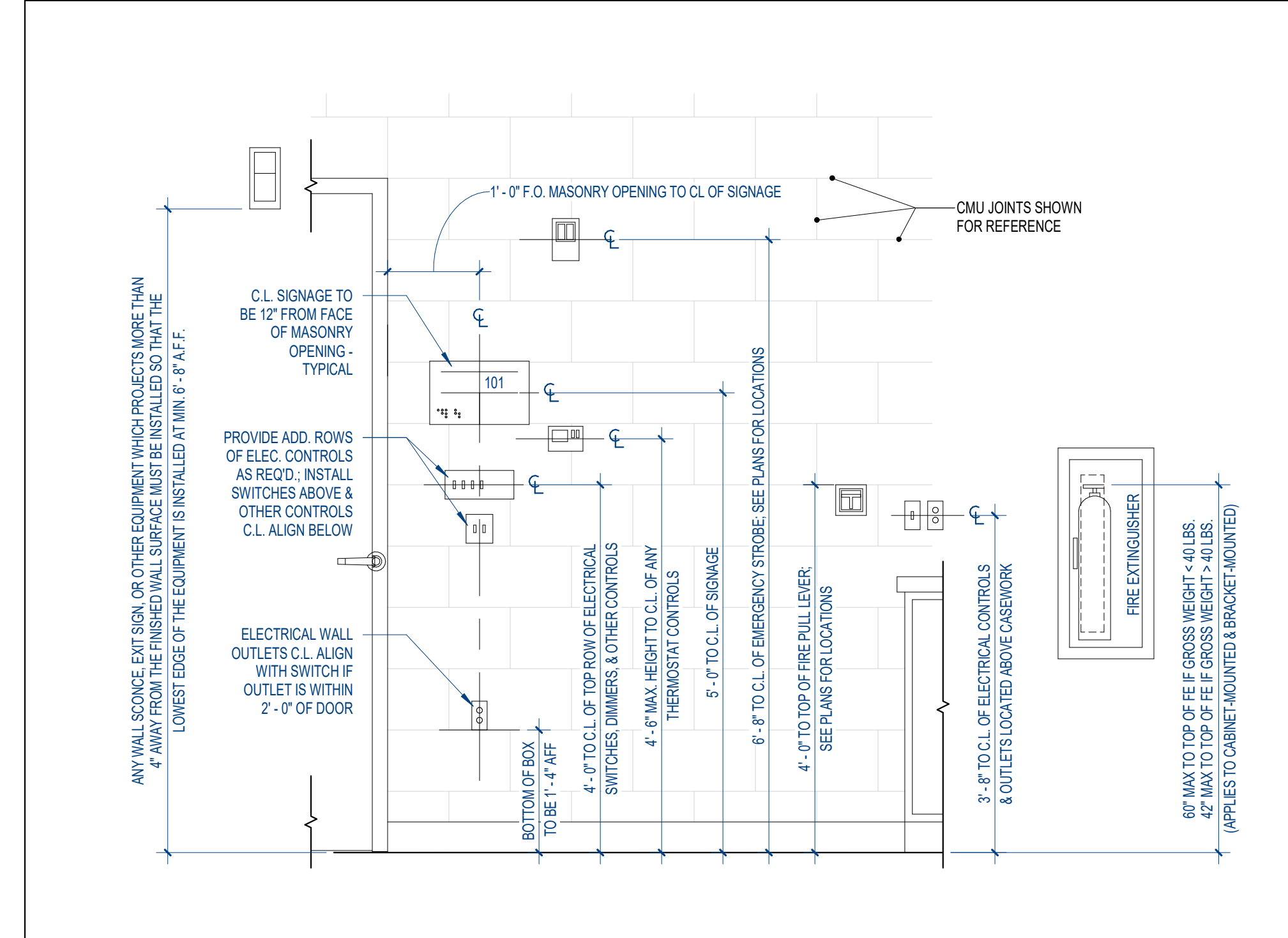
- GRAB BAR REINFORCEMENT:**
 A. GRAB BAR REINFORCEMENT ALLOWABLE STRESSES SHALL NOT BE EXCEEDED FOR MATERIALS USED WHERE A VERTICAL OR HORIZONTAL FORCE OF 250 LBS IS APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER MOUNTING DEVICE, OR SUPPORTING STRUCTURE.
 B. DIAGONAL HATCH PATTERN INDICATES AREA WITH REINFORCEMENT.



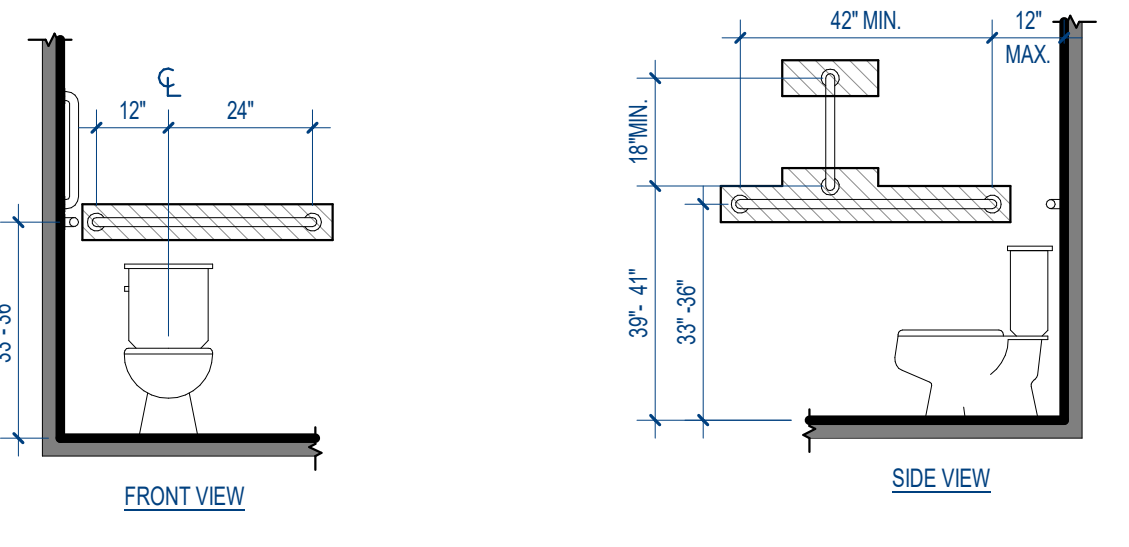
N11 ENLARGED TOILET PLAN
1/4" = 1'-0"
FLOOR PLAN - NEW CONSTRUCTION



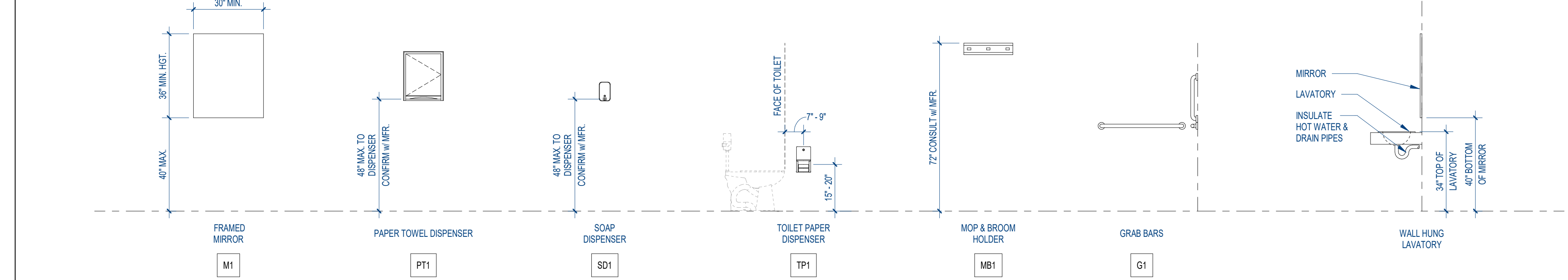
E11 ACCESSIBLE RESTROOM FIXTURES
3/8" = 1'-0"
TYPICAL PLANS & ELEVATION DETAILS



J18 INTERIOR MOUNTING HEIGHT REQ'S.
3/4" = 1'-0"
TYPICAL



E18 GRAB BAR REINFORCEMENT
3/8" = 1'-0"



A18 ACCESSIBLE RESTROOM ACCESSORIES
3/8" = 1'-0"
LEGEND & TYPICAL MOUNTING HEIGHTS

RESTROOM ACCESSORIES

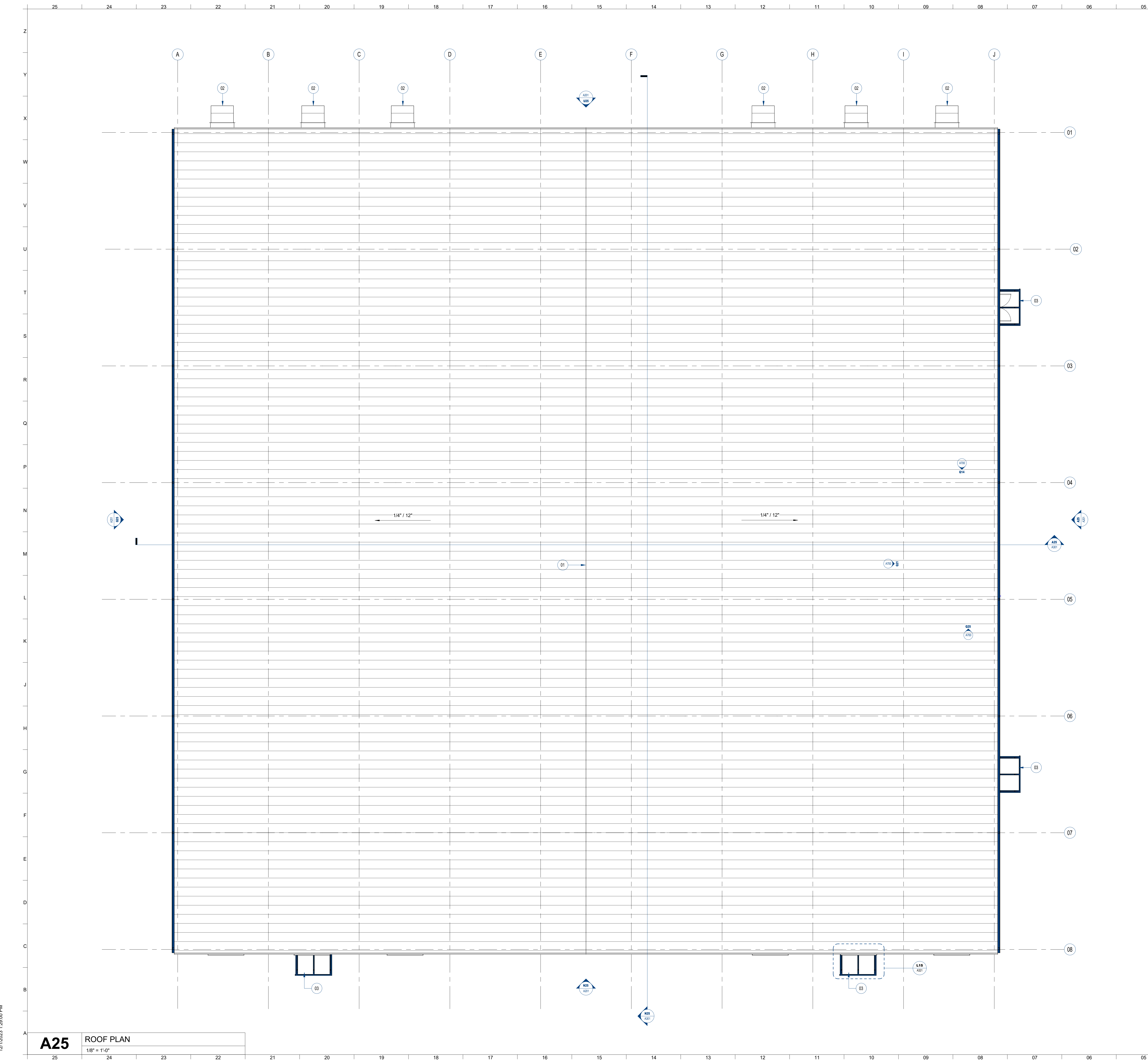
- M1**
 1. FRAME: STAINLESS-STEEL ANGLE, 0.05 INCH THICK CORNERS; MANUFACTURER'S STANDARD.
 2. HANGERS: PRODUCE RIGID, TAMPER-AND THEFT-RESISTANT INSTALLATION, USING METHOD INDICATED BELOW.
 a. ONE-PIECE, GALVANIZED-STEEL WALL-HANGER DEVICE WITH SPRING-ACTION LOCKING MECHANISM TO HOLD MIRROR UNIT IN POSITION WITH NO EXPOSED SCREWS OR BOLTS.
 b. WALL BRACKET OF GALVANIZED STEEL, EQUIPPED WITH CONCEALED LOCKING DEVICES REQUIRING A SPECIAL TOOL TO REMOVE.
- PT1**
 1. MOUNTING: SURFACE MOUNTED.
 2. MINIMUM CAPACITY: 400 0-FOLD OR 525 MULTIFOLD TOWELS.
 3. MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
 4. LOCKSET: TUMBLER TYPE.
- SD1**
 1. DESCRIPTION: AUTOMATIC DISPENSER WITH INFRARED SENSOR TO DETECT PRESENCE OF HANDS; BATTERY POWERED.
 2. MOUNTING: WALL MOUNTED NEAR LAVATORY.
 3. LOW BATTERY INDICATOR: LED INDICATOR.
 4. MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
- TP1**
 1. DESCRIPTION: DOUBLE-ROLL DISPENSER.
 2. MOUNTING: SURFACE MOUNTED.
 3. CAPACITY: DESIGNED FOR 6-INCH (127-MM) TISSUE ROLLS.
 4. MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
- MB1**
 1. DESCRIPTION: UNIT WITH SHELF HOOKS, HOLDERS.
 2. LENGTH: 36 INCHES (914MM).
 3. MOP/BROOM HOLDERS.
 4. MATERIAL AND FINISH: STAINLESS STEEL, NO. 4 FINISH (SATIN).
- G1**
 1. MOUNTING: FLANGES WITH CONCEALED FASTENERS.
 2. MATERIAL: STAINLESS STEEL, 0.05 INCH (1.3MM) THICK.
 a. FINISH: SMOOTH, NO. 4 FINISH (SATIN).
 3. OUTSIDE DIAMETER: 1-1/2 INCHES (38MM).
 4. CONFIGURATION AND LENGTH: AS INDICATED ON DRAWINGS.

- ACCEPTABLE MANUFACTURERS:**
- 1. A & J WASHROOM ACCESSORIES INC. WWW.AJASHROOM.COM.
 - 2. AMERICAN SPECIALTIES, INC. WWW.AMERICANSPECIALTIES.COM
 - 3. BRADLEY CORPORATION. WWW.BRADLEYCORP.COM
 - 4. BOBRICK. WWW.BOBRIK.COM
- SUBSTITUTIONS WILL BE CONSIDERED AS REQUESTED.

KEYS:
 PROVIDE UNIVERSAL KEYS FOR INTERNAL ACCESS TO ACCESSORIES FOR SERVICING AND REPAIR/REPLACE. PROVIDE MINIMUM OF SIX KEYS TO OWNER'S REPRESENTATIVE.

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR FORWARDED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
ENLARGED PLANS AND ACCESSIBLE RESTROOM REQUIREMENTS



GENERAL NOTES

- A ARROWS INDICATE DIRECTION OF DOWNWARD SLOPE.
- B COORDINATE ALL PENETRATIONS WITH PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS.
- C ALL EQUIPMENT STACK LOCATIONS AND DIAMETERS TO BE VERIFIED WITH FINAL EQUIPMENT LAYOUT. EQUIPMENT LAYOUT TO BE VERIFIED BY VENDOR.

KEYED NOTES

- 01 RIDGE
- 02 EXHAUST FANS, REFER TO MECHANICAL DRAWINGS
- 03 PRE-MANUFACTURER ALUMINUM CANOPY, DRAIN ONE SIDE



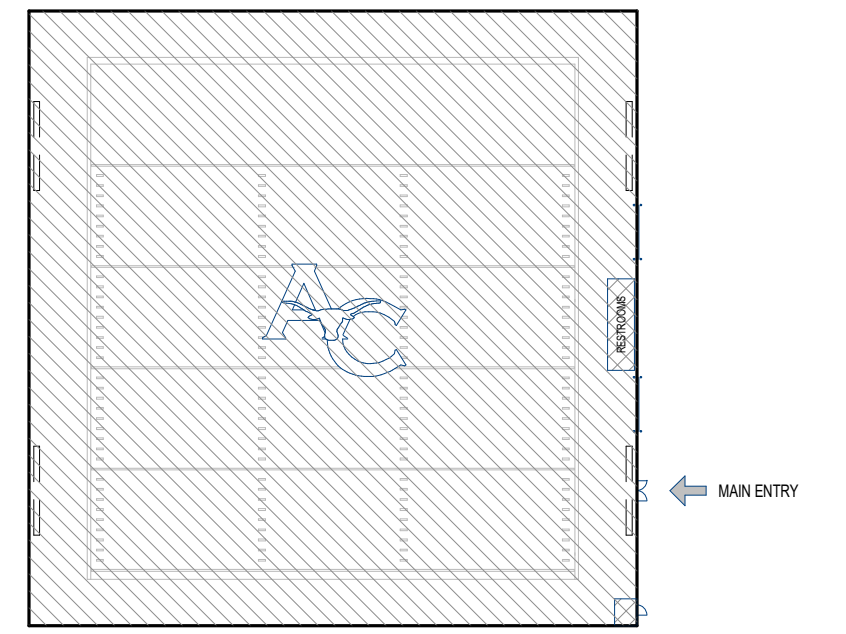
A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

TFM # 03970-F

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
ROOF PLAN & DETAILS



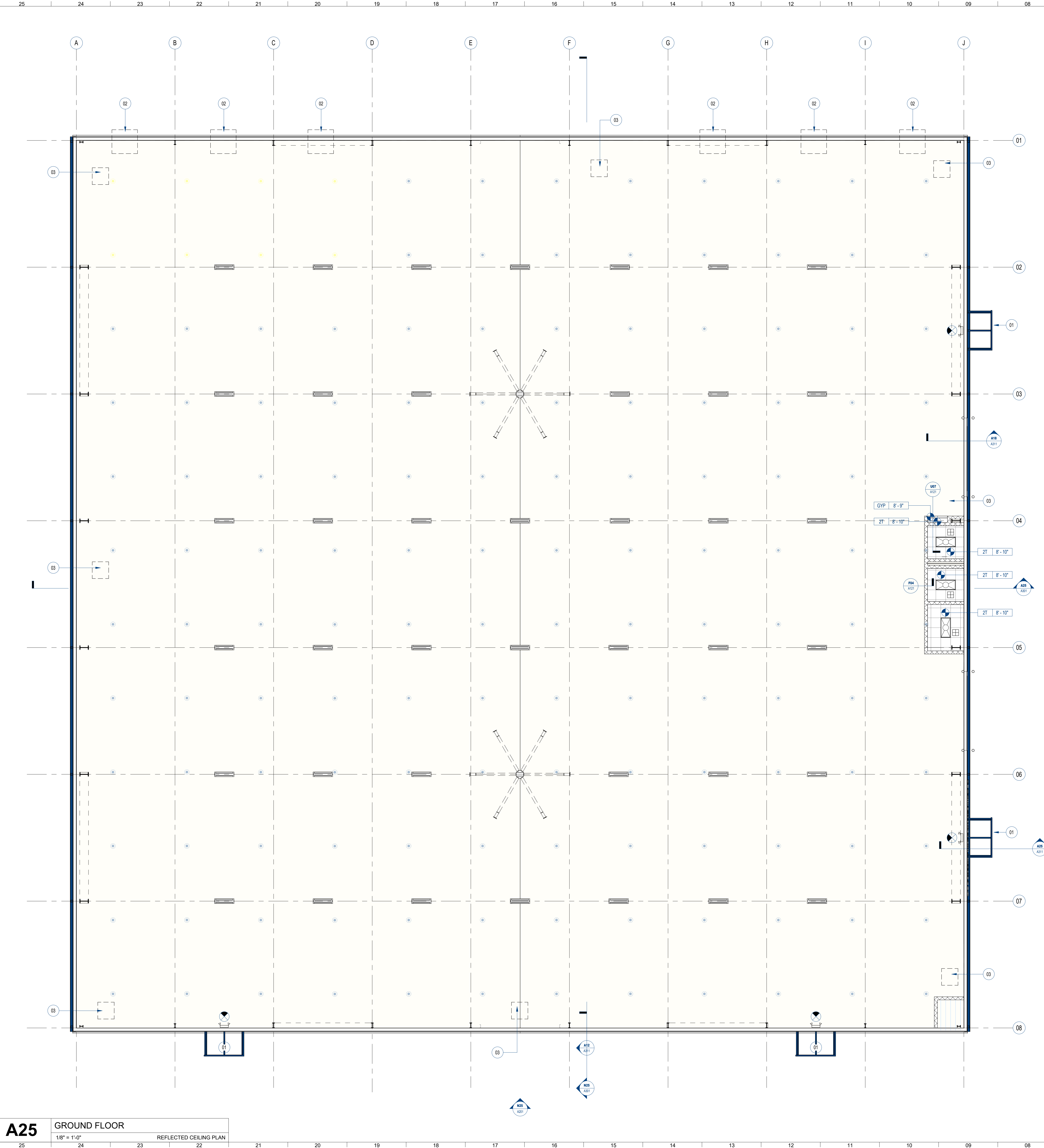
12/1/2023 1:29:00 PM

A25 ROOF PLAN
1/8" = 1'-0"

A04 KEY PLAN
NOT TO SCALE

A111
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

12/1/2023 1:29:02 PM



A25 GROUND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES
REFLECTED CEILING PLANS

A ALL CEILING HEIGHTS ARE ABOVE FINISH FLOOR ELEVATION.
B COORDINATE INSTALLATION OF SPRINKLER HEADS WITH ARCHITECT UPON SHOP DRAWING SUBMITTAL.
C DIMENSIONS ON REFLECTED CEILING PLAN ARE SHOWN TO FACE OF GYPSUM BOARD UNLESS NOTED OTHERWISE.
D ALL EXIT SIGNS, LIGHT FIXTURES, SPEAKERS, AUDIO VISUAL DEVICES, SMOKE DETECTORS AND/OR OTHER DEVICE LOCATIONS SHOWN IN THE REFLECTED CEILING PLAN SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE OR PANELS UNLESS NOTED OTHERWISE.
E PROVIDE SEISMIC BRACING AS REQUIRED BY LOCAL CODE.

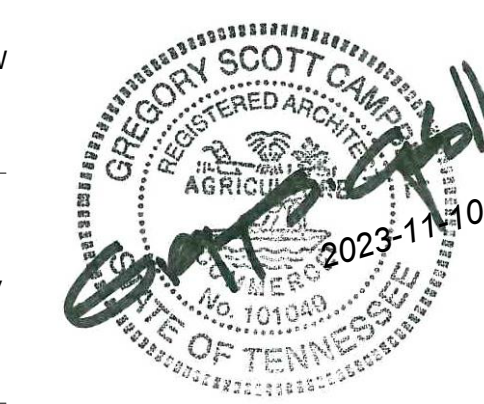
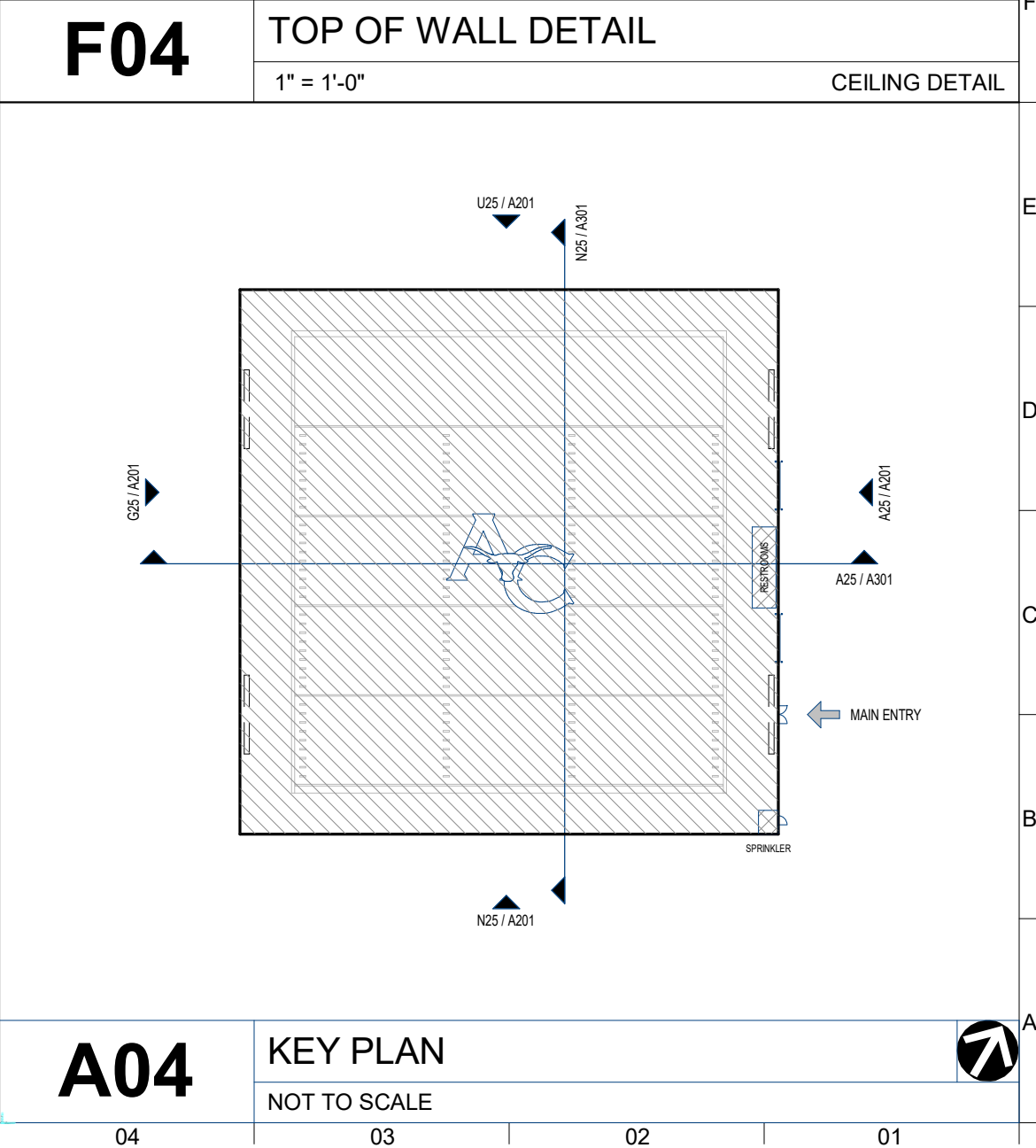
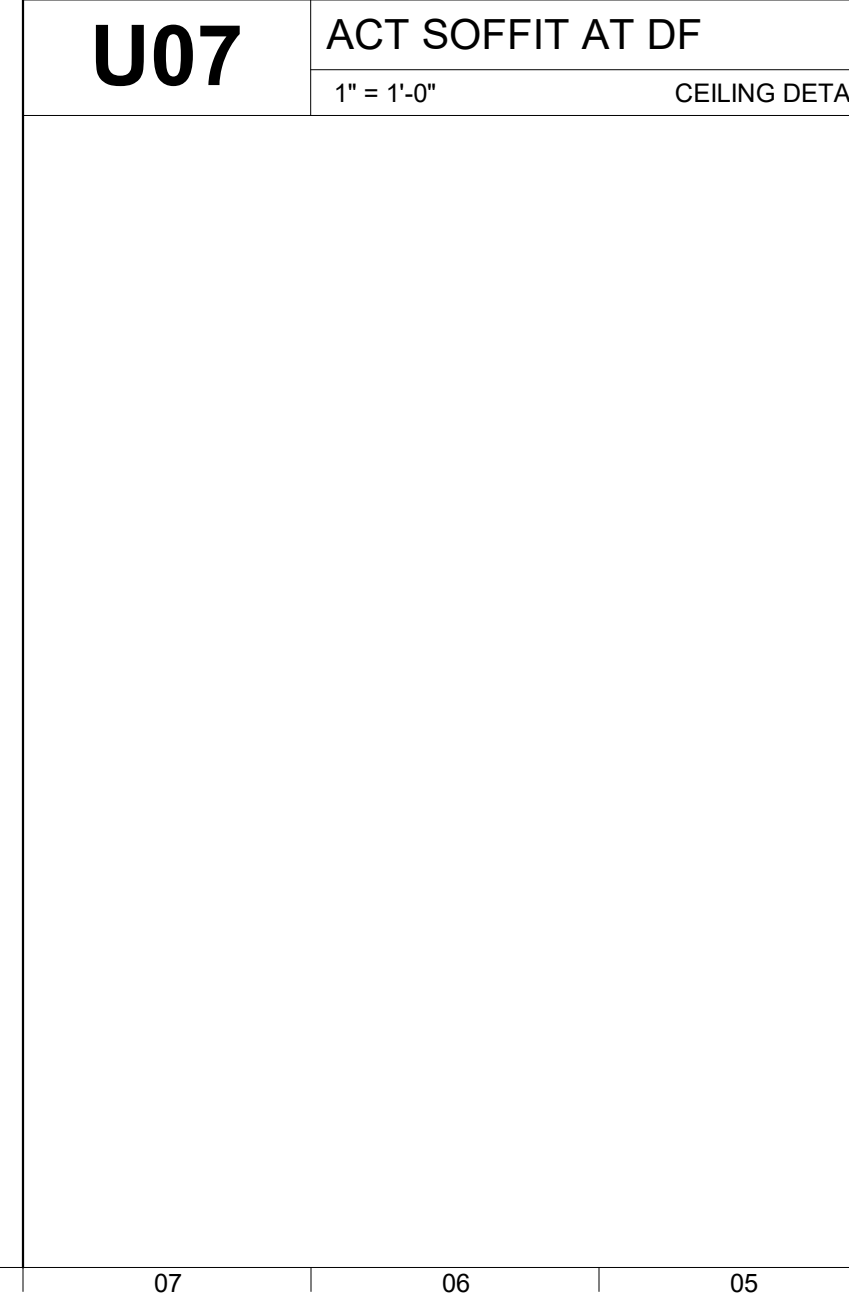
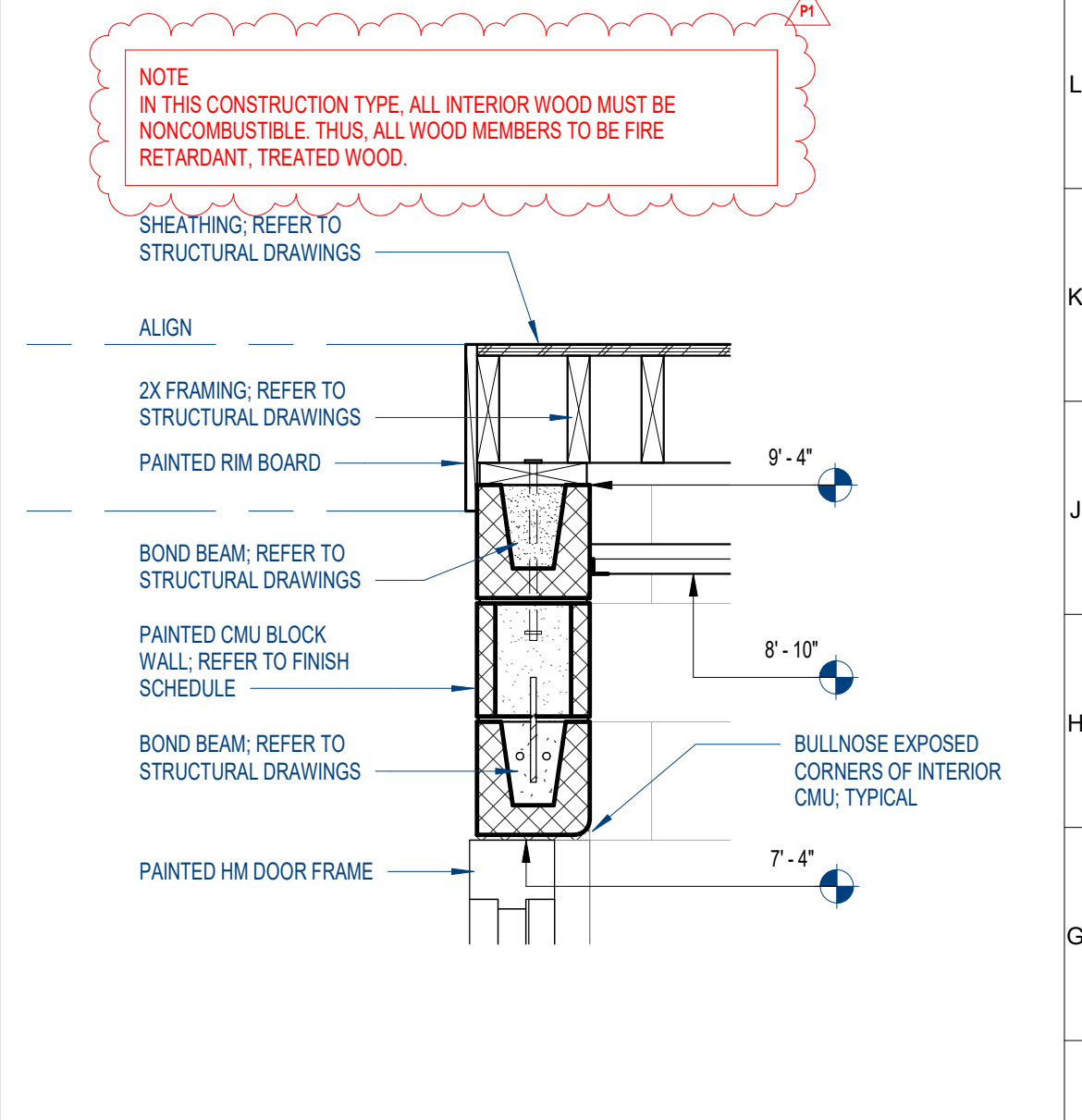
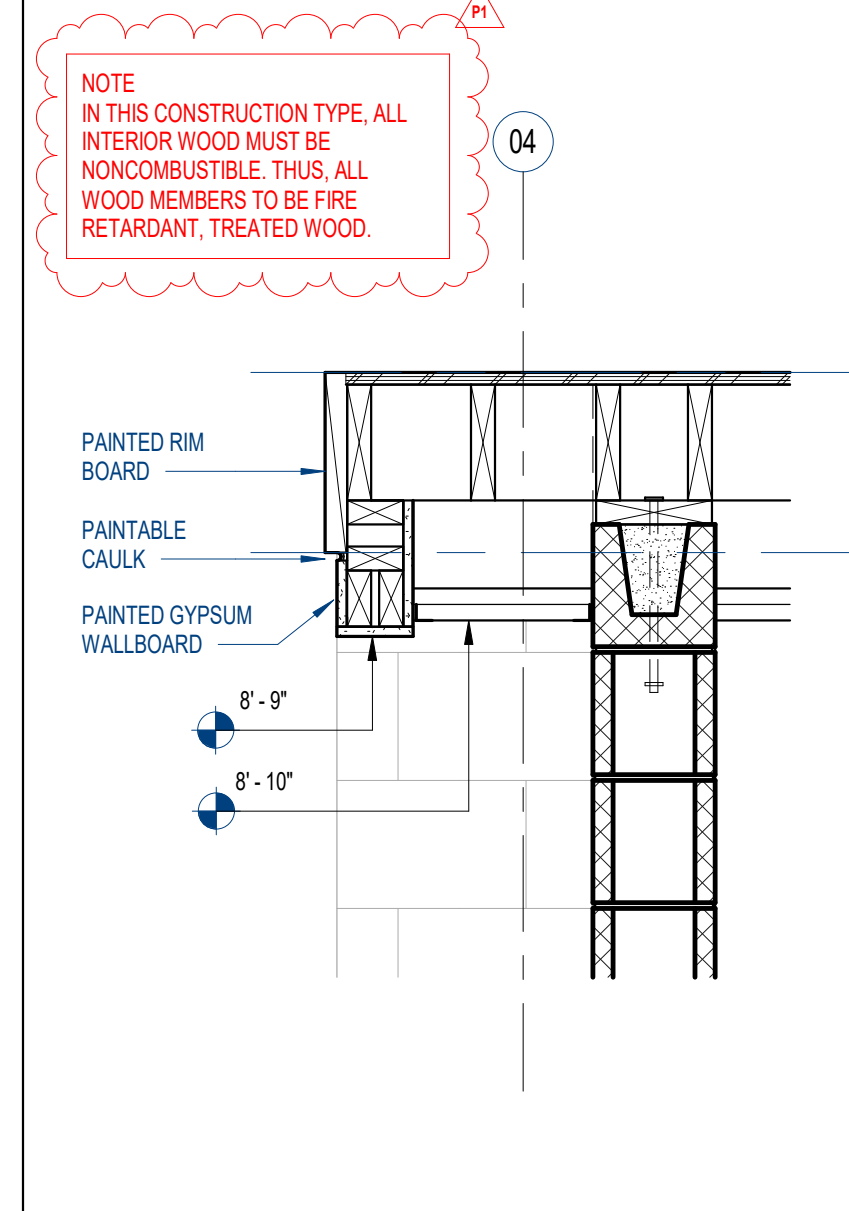
KEYED NOTES
REFLECTED CEILING PLANS

01 CANOPY
02 EXHAUST FANS; REFER TO MECHANICAL DRAWINGS
03 GAS UNIT HEATER; REFER TO MECHANICAL DRAWINGS

GRAPHIC LEGEND
NOT TO SCALE REFLECTED CEILING PLANS

	2x 2 x 2 ACOUSTIC CEILING TILE		EXHAUST FAN, CENTERED ON CEILING TILE; REFER TO MECH
	HIGH BAY LIGHT FIXTURE; REFER TO ELECTRICAL		SPRINKLER HEAD; REFER TO FIRE PROTECTION DWGS
	EMERGENCY LIGHT FIXTURE; REFER TO ELECTRICAL		EXIT SIGN
	LOCATION OF POTENTIAL FUTURE CEILING FAN; NOT IN CONTRACT		PRE-MANUFACTURED ALUM CANOPY

TFM # 03970-F



A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR FORWARDED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FIRST FLOOR RCP

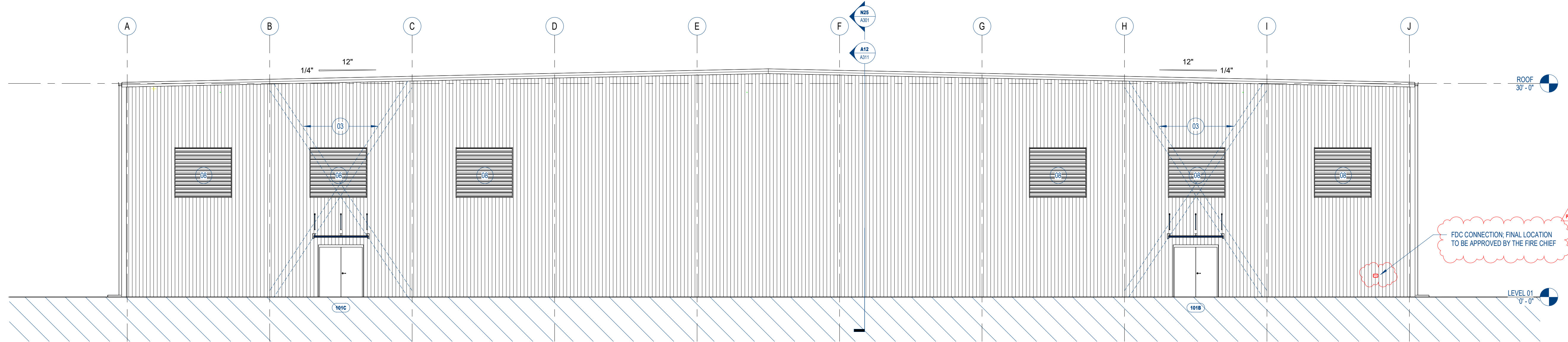
KEYED NOTES

- 01 PRE-MANUFACTURED CANOPY
- 02 DOWNSPOUT: SIZED PER SMACNA GUIDELINES
- 03 X-BRACING
- 04 BOLLARDS: SEE PLAN
- 05 PRECAST CONCRETE SPLASH BLOCK, PROVIDE ONE PER DOWNSPOUT, TYPICAL
- 06 BUILDING SIGNAGE, NIC
- 07 EXHAUST FAN: REFER TO MECHANICAL DRAWINGS
- 08 LOUVER: REFER TO MECHANICAL DRAWINGS
- 09 GUTTER: SIZED PER SMACNA GUIDELINES

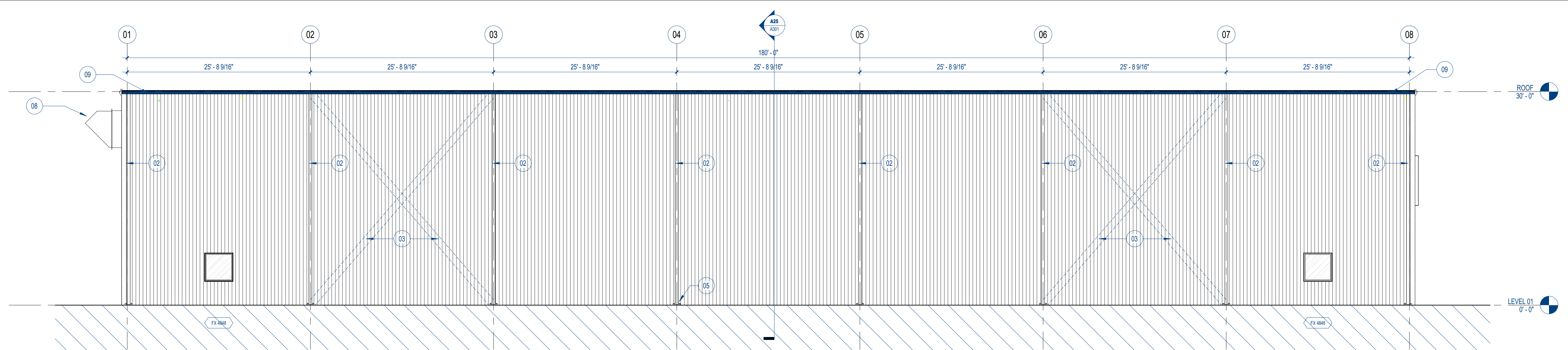


A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

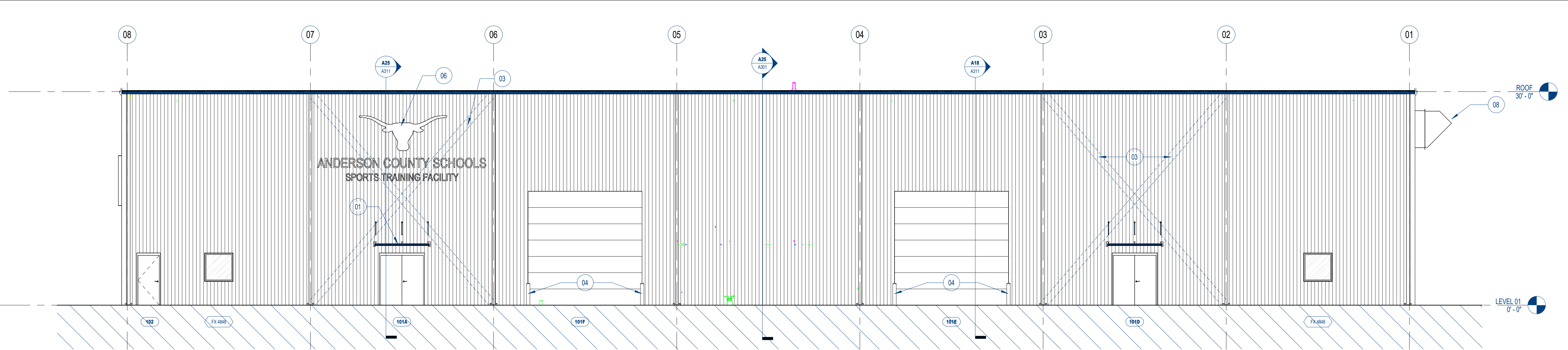
U25 NORTH ELEVATION
1/8" = 1'-0"



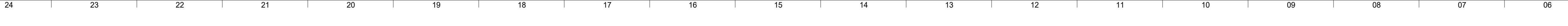
N25 SOUTH ELEVATION
1/8" = 1'-0"



G25 WEST ELEVATION
1/8" = 1'-0"

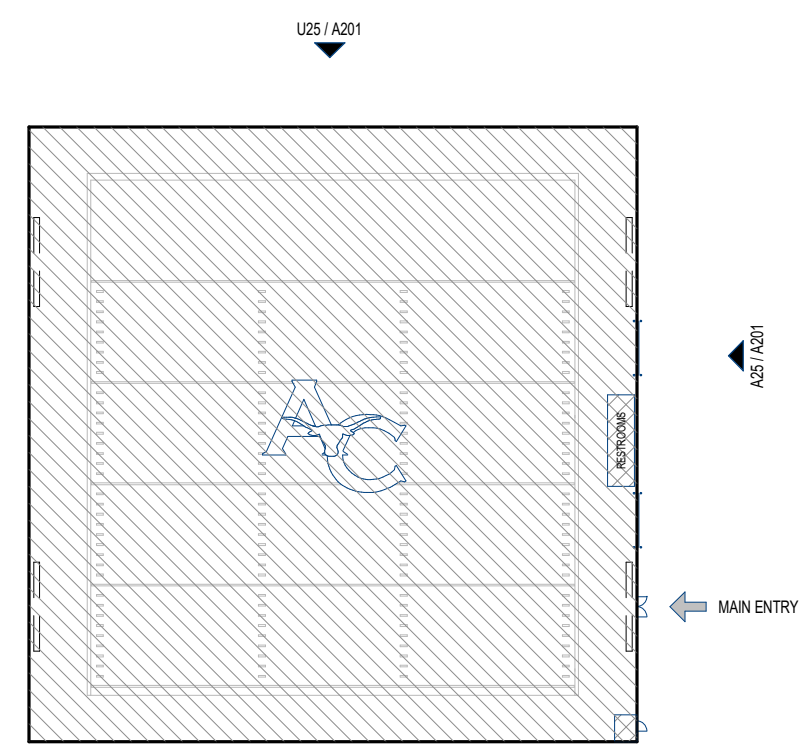


A25 EAST ELEVATION
1/8" = 1'-0"



TFM # 03970-F

FDC CONNECTION: FINAL LOCATION TO BE APPROVED BY THE FIRE CHIEF

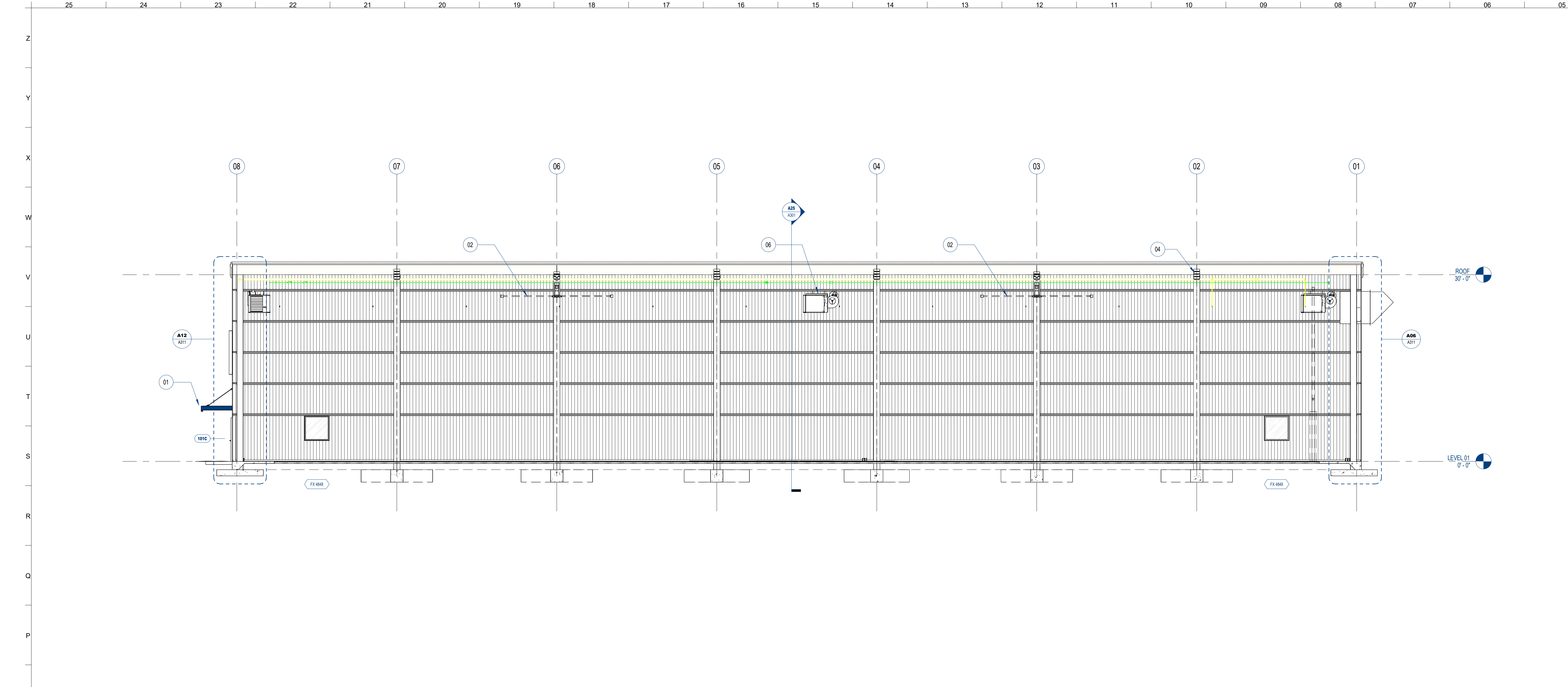


NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

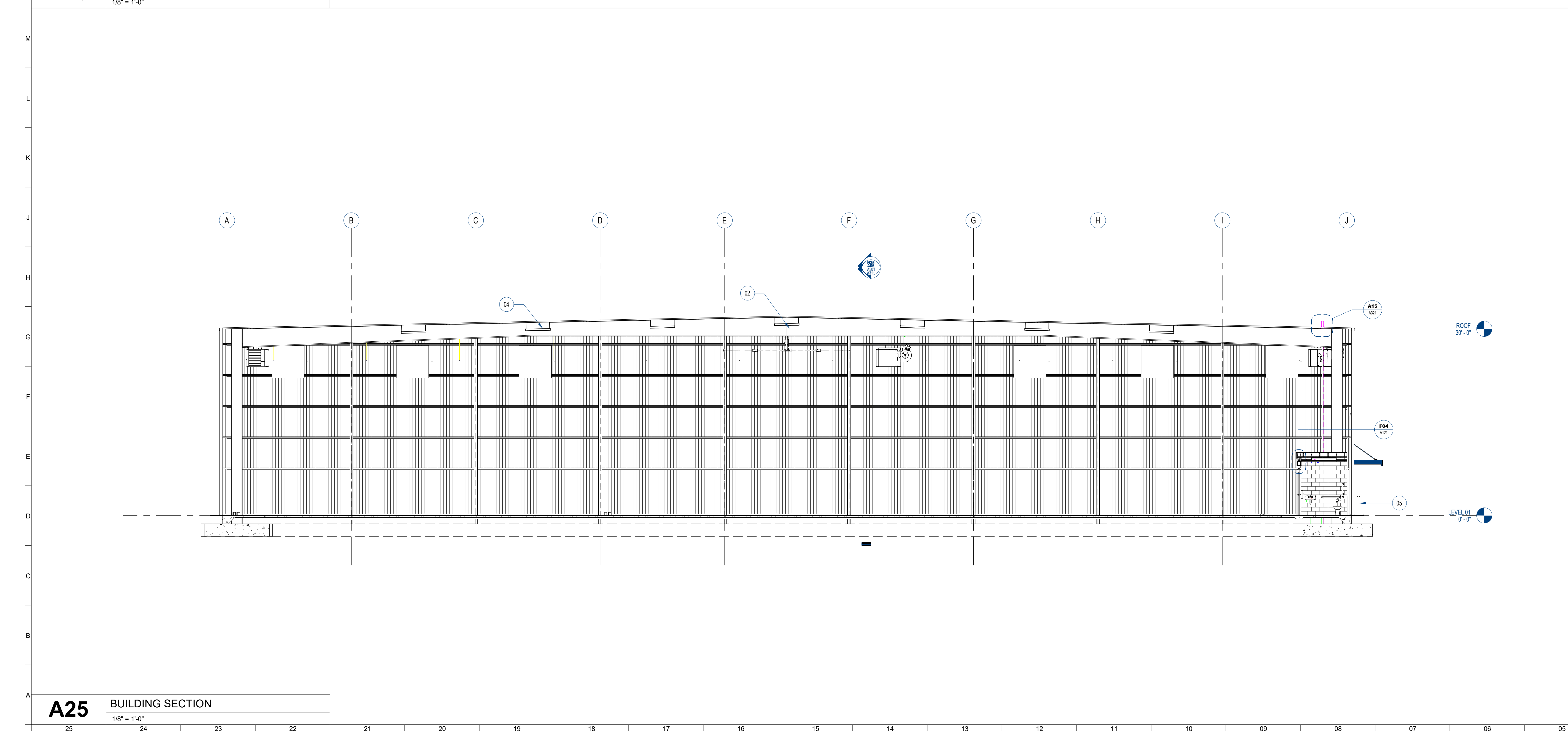
THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
EXTERIOR ELEVATIONS

12/1/2023 1:29:04 PM



N25 BUILDING SECTION
1/8" = 1'-0"



A25 BUILDING SECTION
1/8" = 1'-0"

KEYED NOTES

- 01 OVERHEAD ENTRY CANOPY
- 02 CEILING FAN; FUTURE, NOT IN CONTRACT
- 04 LED LIGHT FIXTURE
- 05 PAINTED BOLLARD; GALVANIZED AND FACTORY PAINTED SAFETY YELLOW; PROVIDE (4) BOLLARDS PER OVERHEAD SECTIONAL DOOR
- 06 HEATER

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com



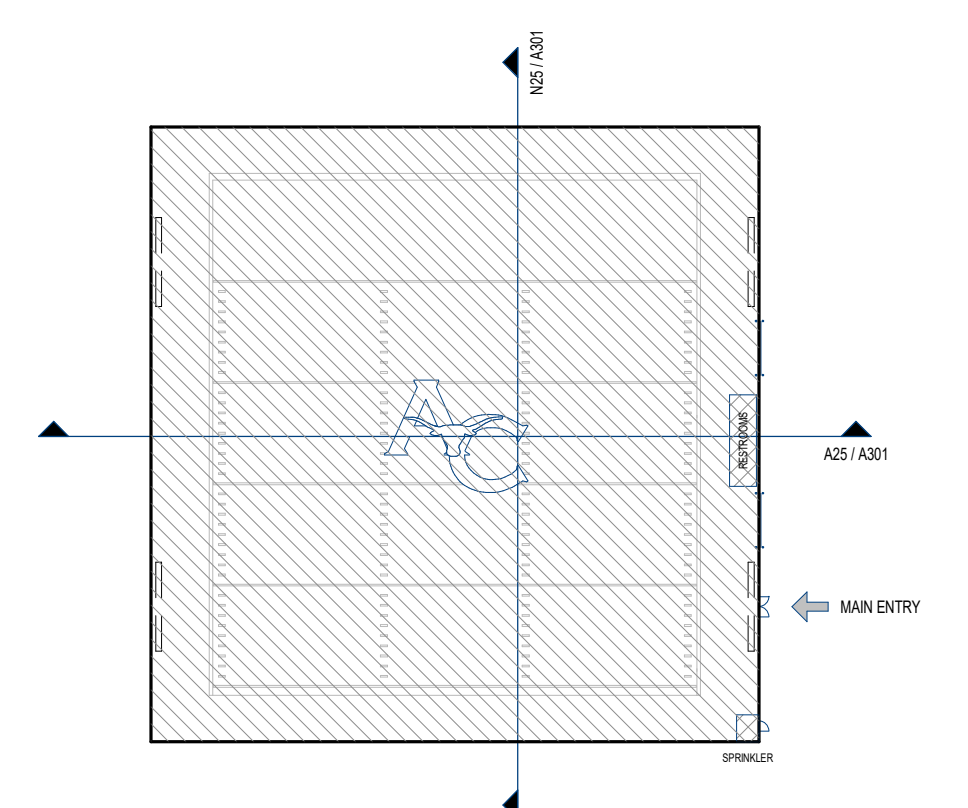
A NEW PROJECT FOR:
**ANDERSON COUNTY SPORTS
TRAINING FACILITY**
ANDERSON COUNTY, TN

TFM # 03970-F

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITE IN DIMENSIONS AND PREVIOUS ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
BUILDING SECTIONS



A04 KEY PLAN
NOT TO SCALE

A301
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

12/1/2023 1:29:06 PM

12/1/2023 2:25:44 PM

EXP R-10 FOR 24" BELOW AT SLAB PERIMETER:

A. EXTRUDED POLYSTYRENE BOARD, TYPE IV (VERTICALLY BELOW GRADE), ASTM C 578, TYPE IV, 25-PSI MINIMUM COMPRESSIVE STRENGTH, UNFACED, MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84 AND RELATED PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. CERTIFOAM 25 SL BY OVERSFORTH, WWW.OVERSFORTH.COM
b. STYROFOAM BRAND PERIMATE BY THE DOW CHEMICAL COMPANY, WWW.DUPONT.COM
c. GREENGUARD G695-LG XPS BY KINGSPAN INSULATION LLC, WWW.KINGSPAN.COM
d. CORNULAR 200 (TG) BY OWENS CORNING INSULATING SYSTEMS LLC, WWW.OWENSCORNING.COM

2. FIRE PROPAGATION CHARACTERISTICS: PASSES NFPA 285 TESTING AS PART OF AN APPROVED ASSEMBLY.

B. EXTRUDED POLYSTYRENE BOARD, TYPE VII (HORIZONTALLY), ASTM C 578, TYPE VII, 60-PSI MINIMUM COMPRESSIVE STRENGTH, MAXIMUM FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF 25 AND 450, RESPECTIVELY, PER ASTM E 84 AND RELATED PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
a. STYROFOAM BRAND HIGLOAD 60 INSULATION BY THE DOW CHEMICAL COMPANY, WWW.DUPONT.COM
b. WWW.DUPONT.COM
c. GREENGUARD G698-LG XPS BY KINGSPAN INSULATION LLC, WWW.KINGSPAN.COM
d. CORNULAR 800 XPS BY OWENS CORNING INSULATING SYSTEMS LLC, WWW.OWENSCORNING.COM

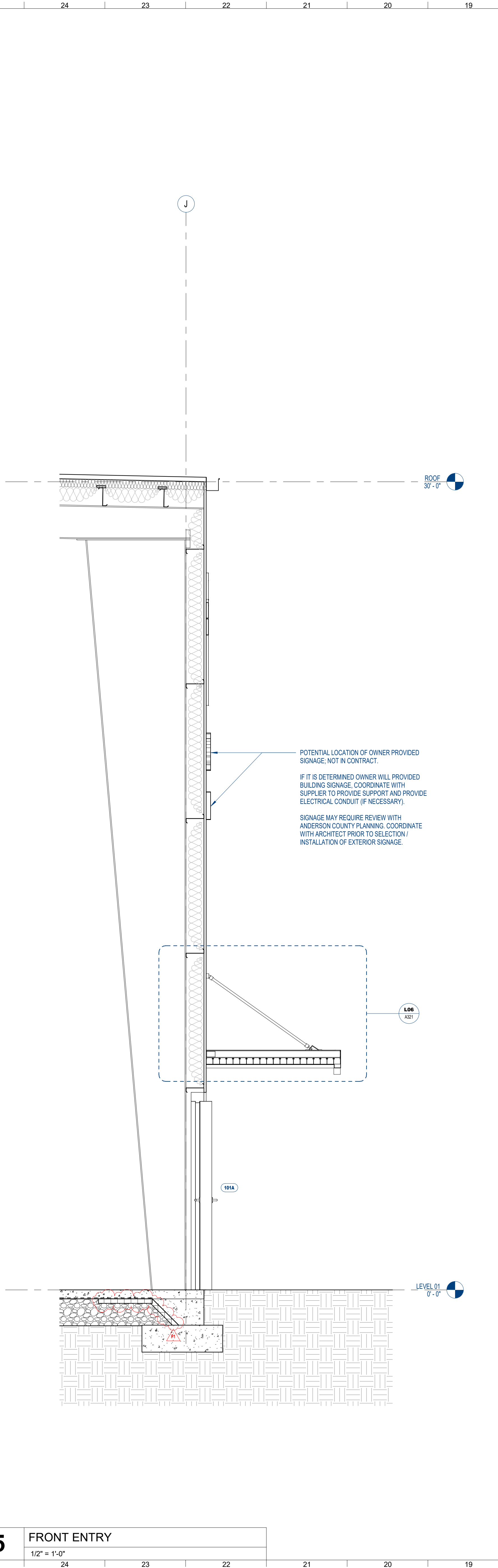
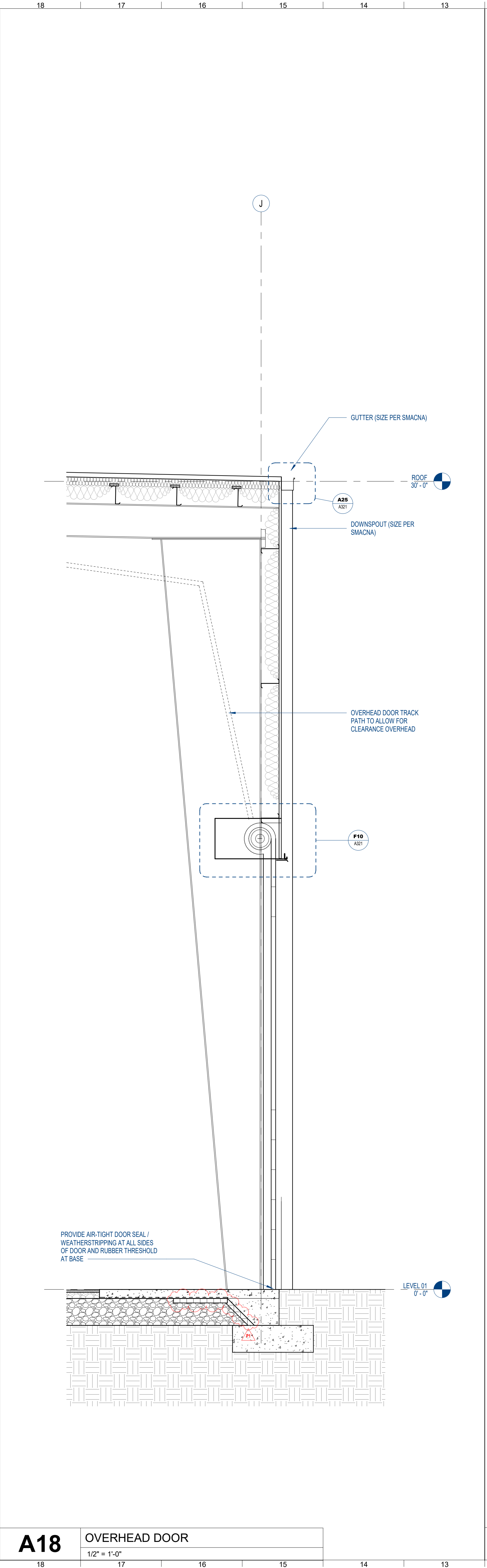
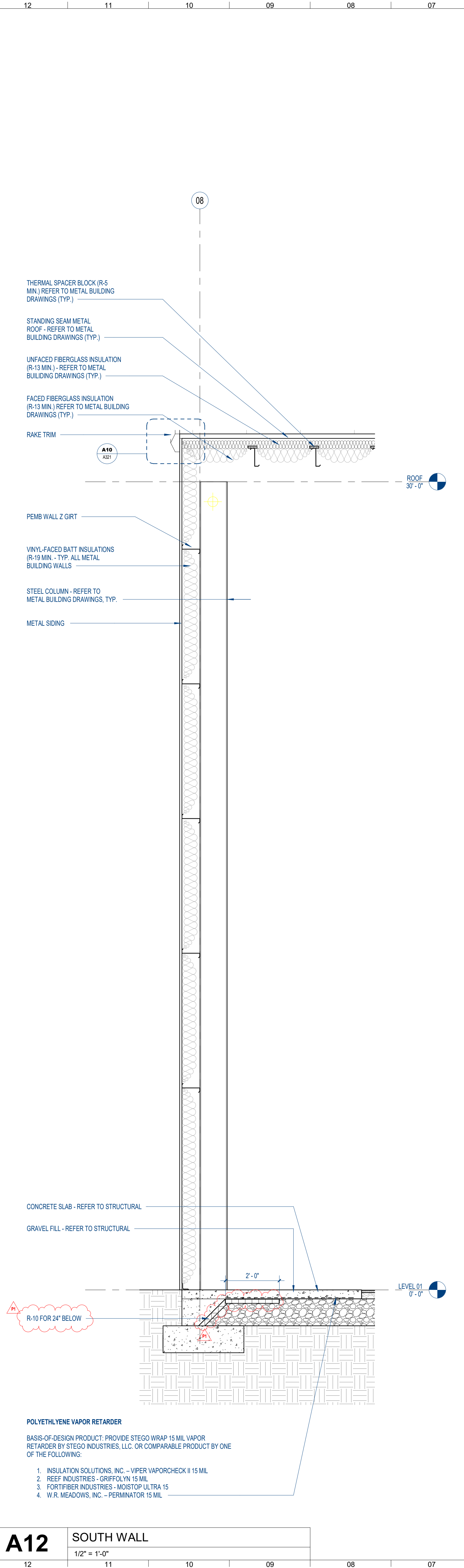
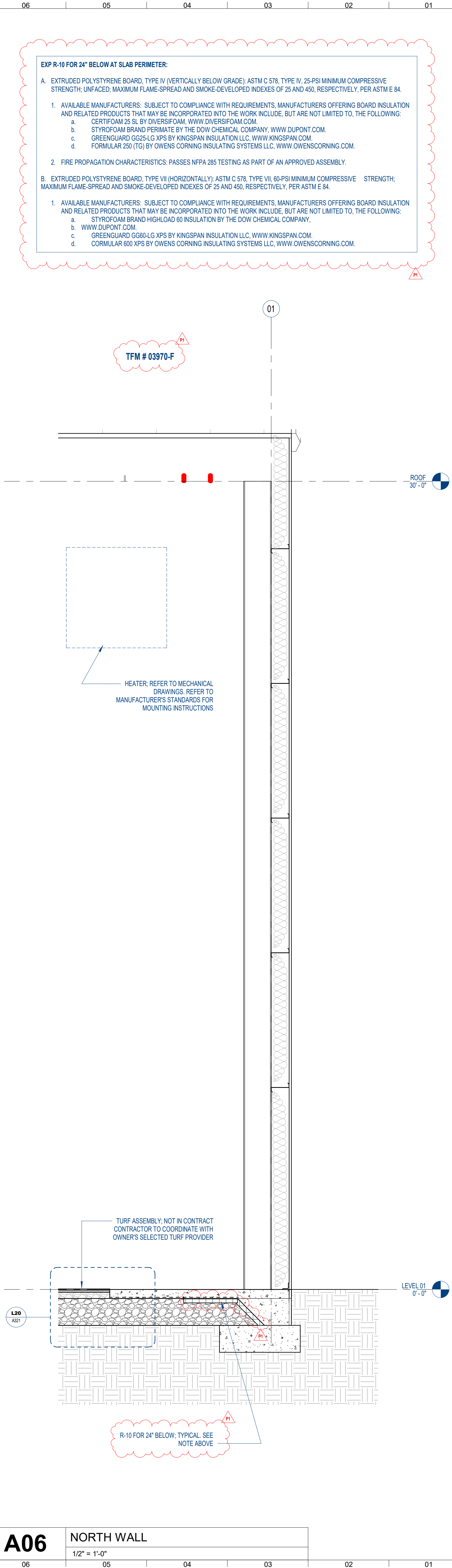


A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR FORWARDED IN ANY MANNER WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITER DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
WALL SECTIONS



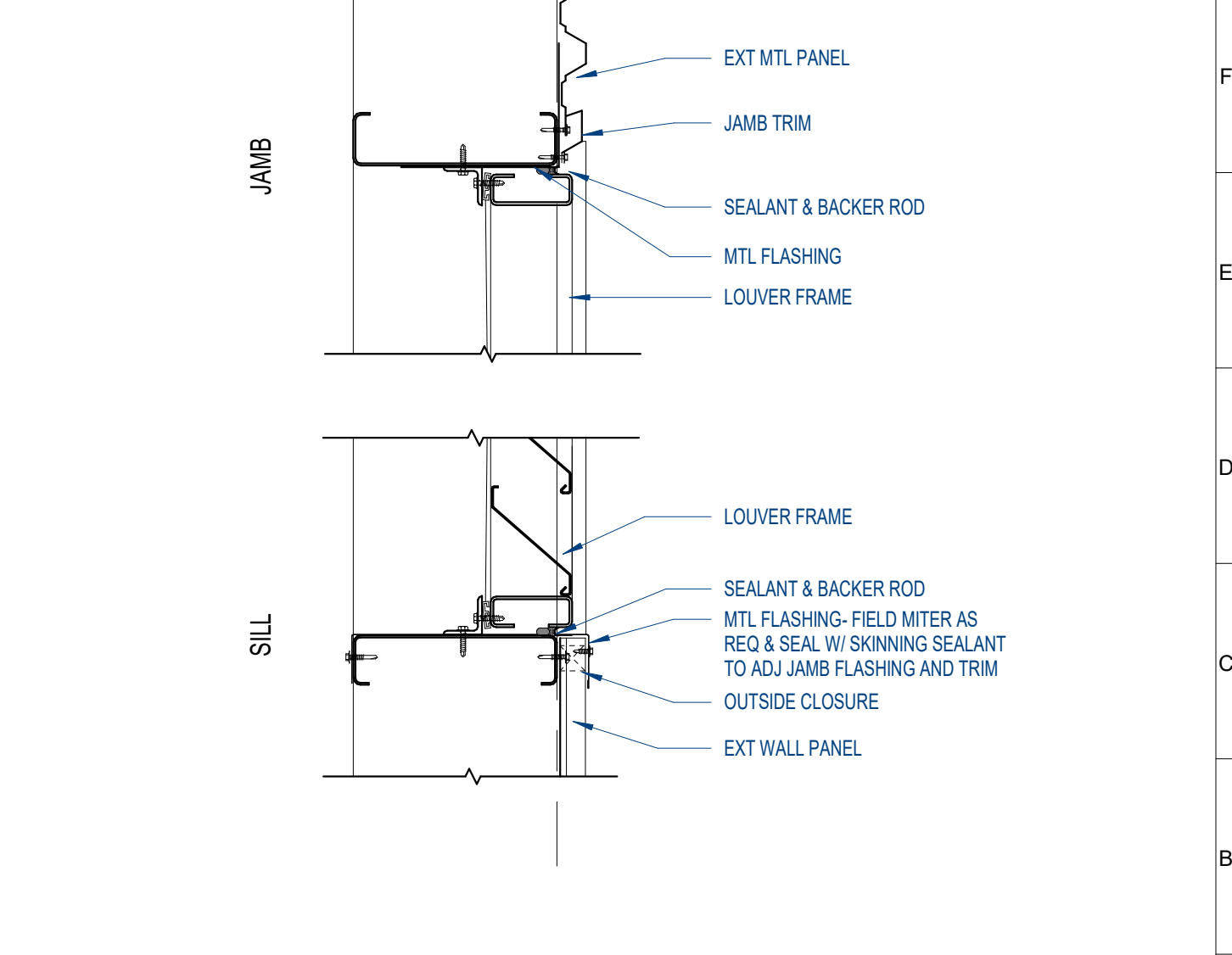
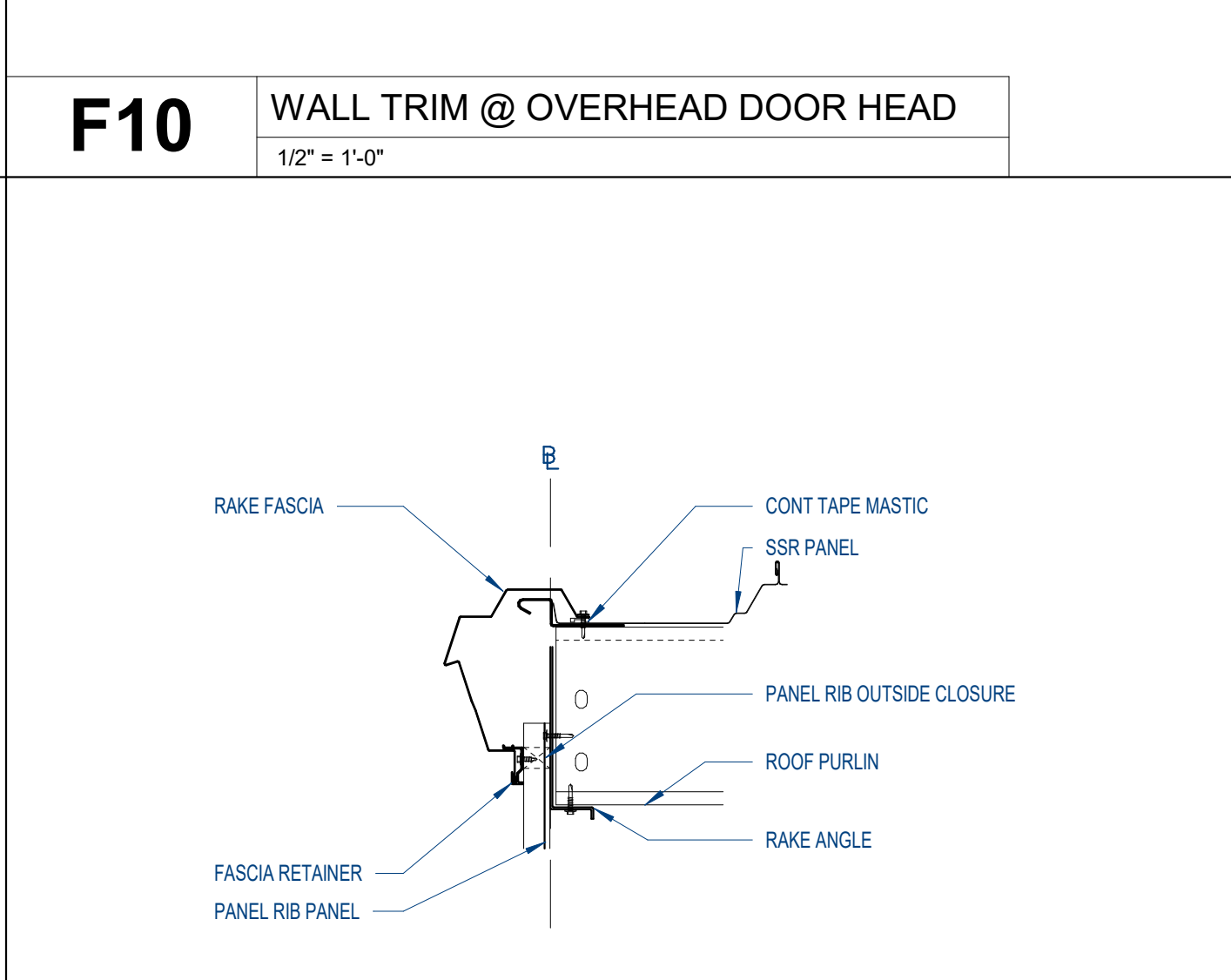
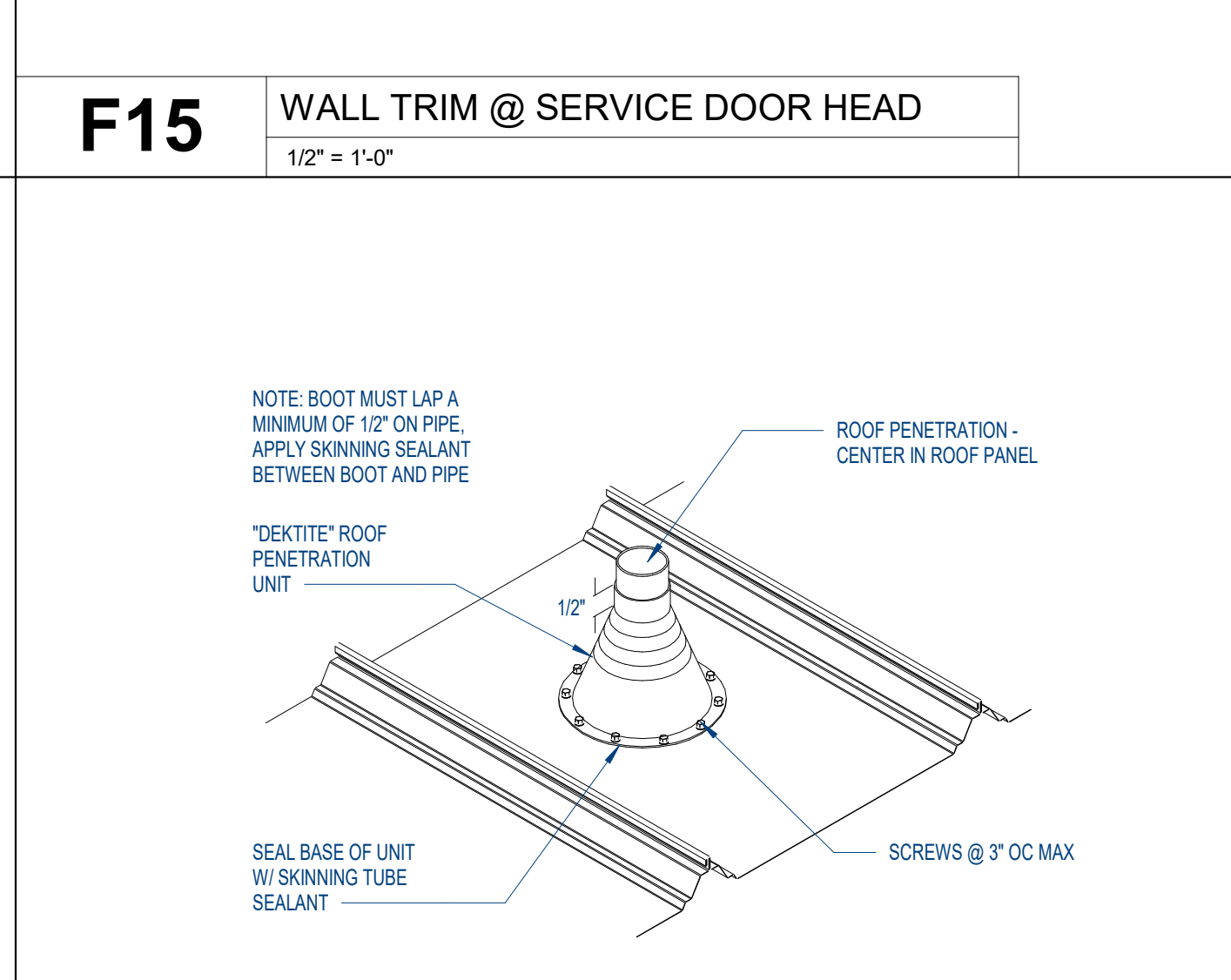
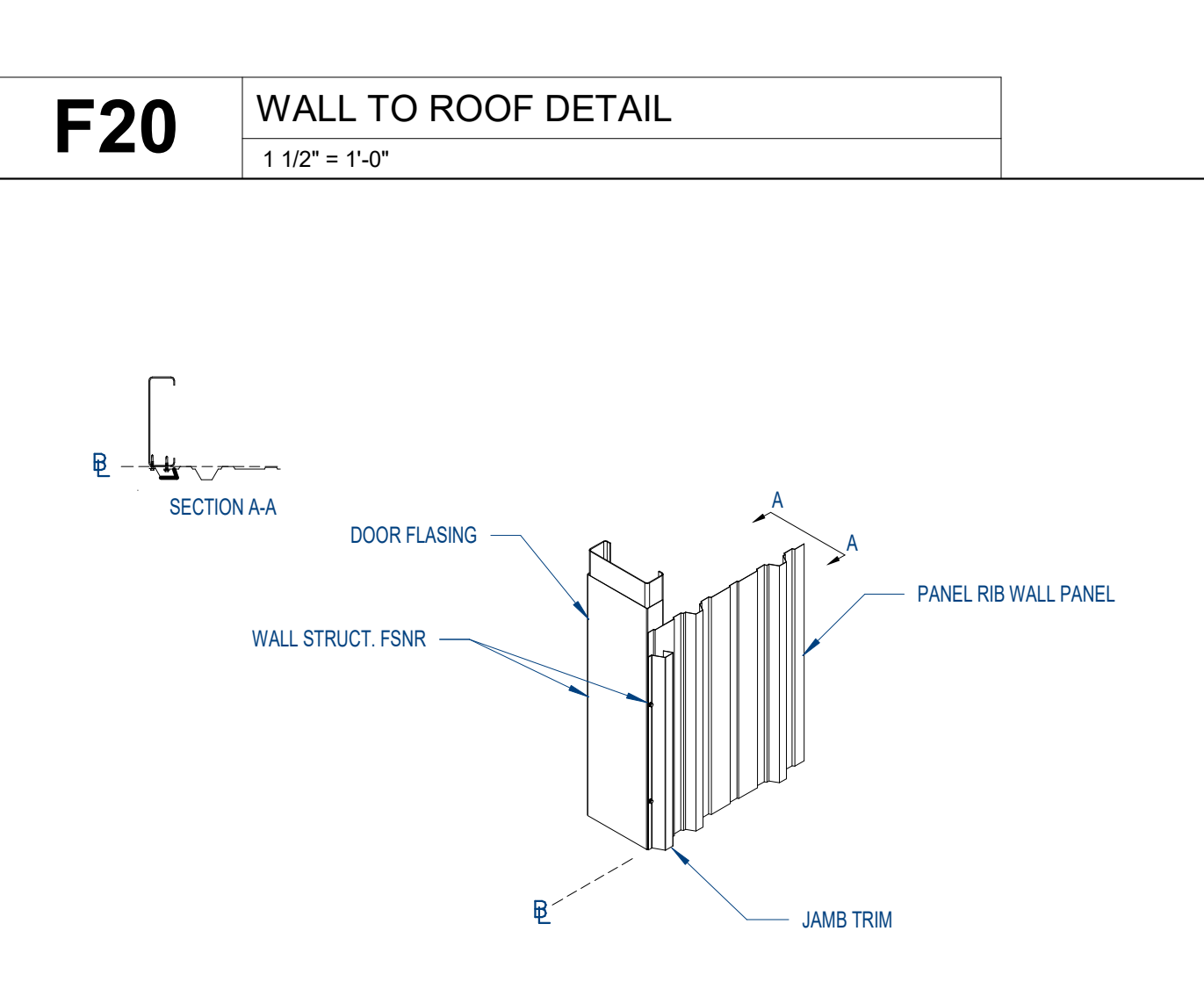
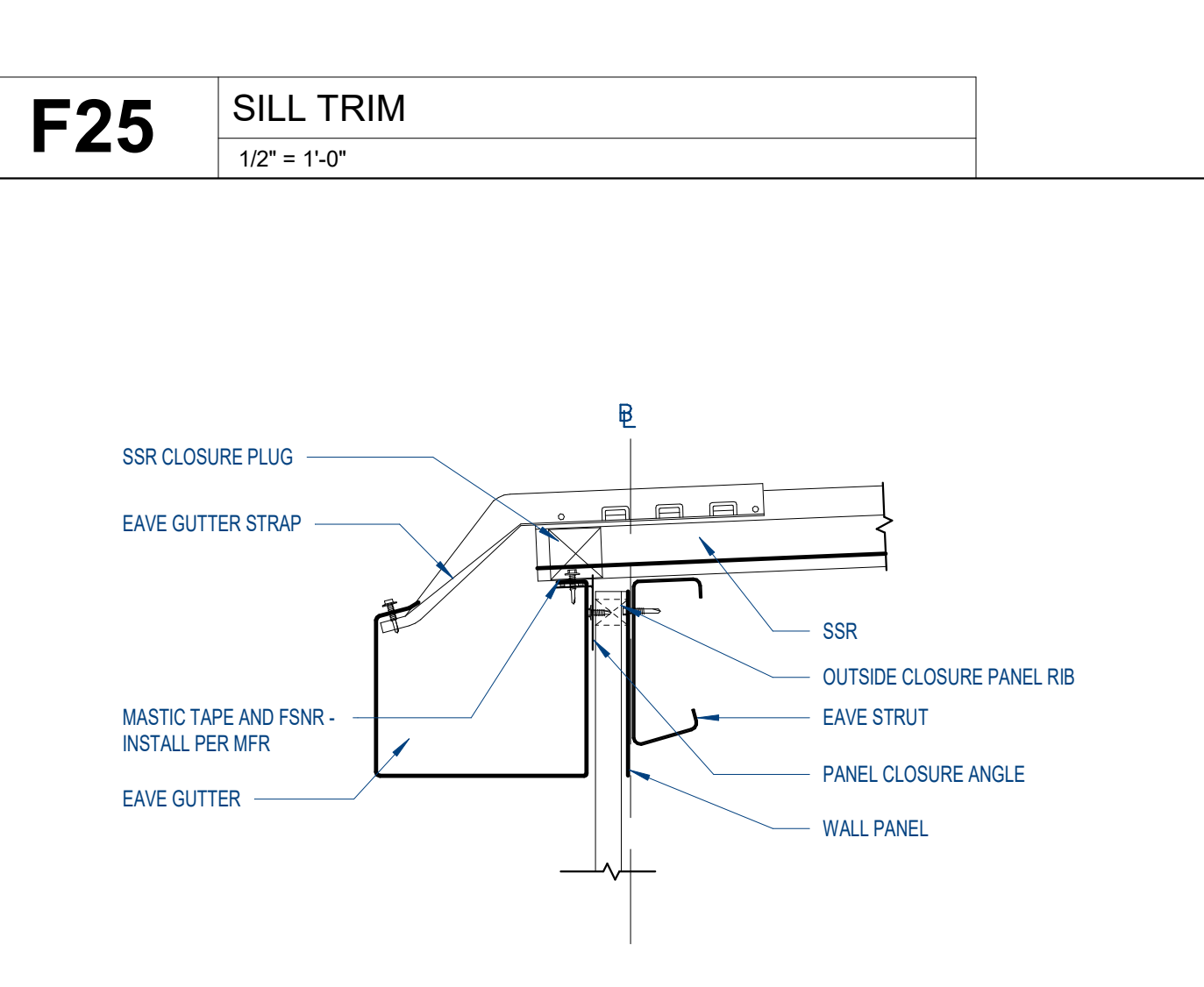
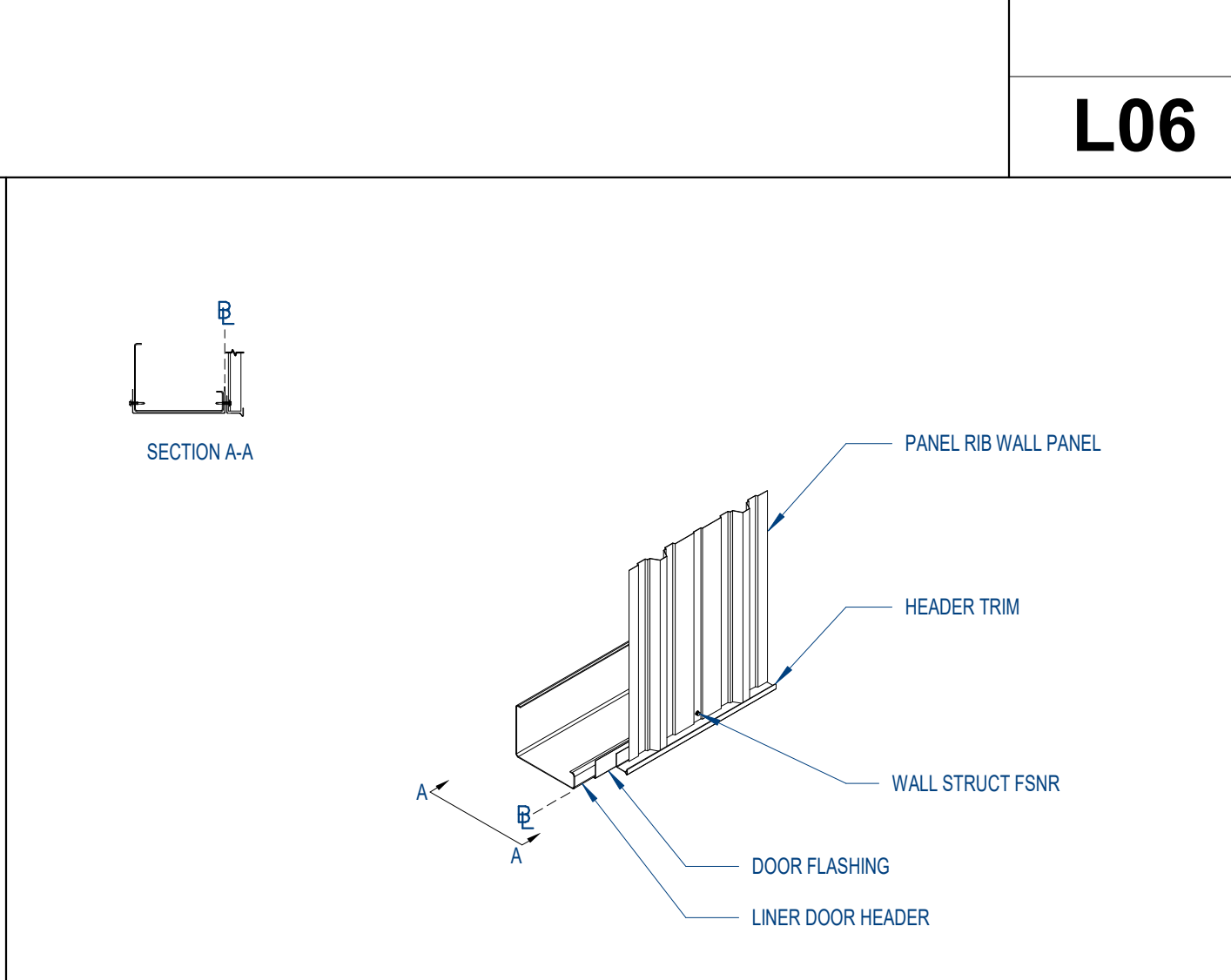
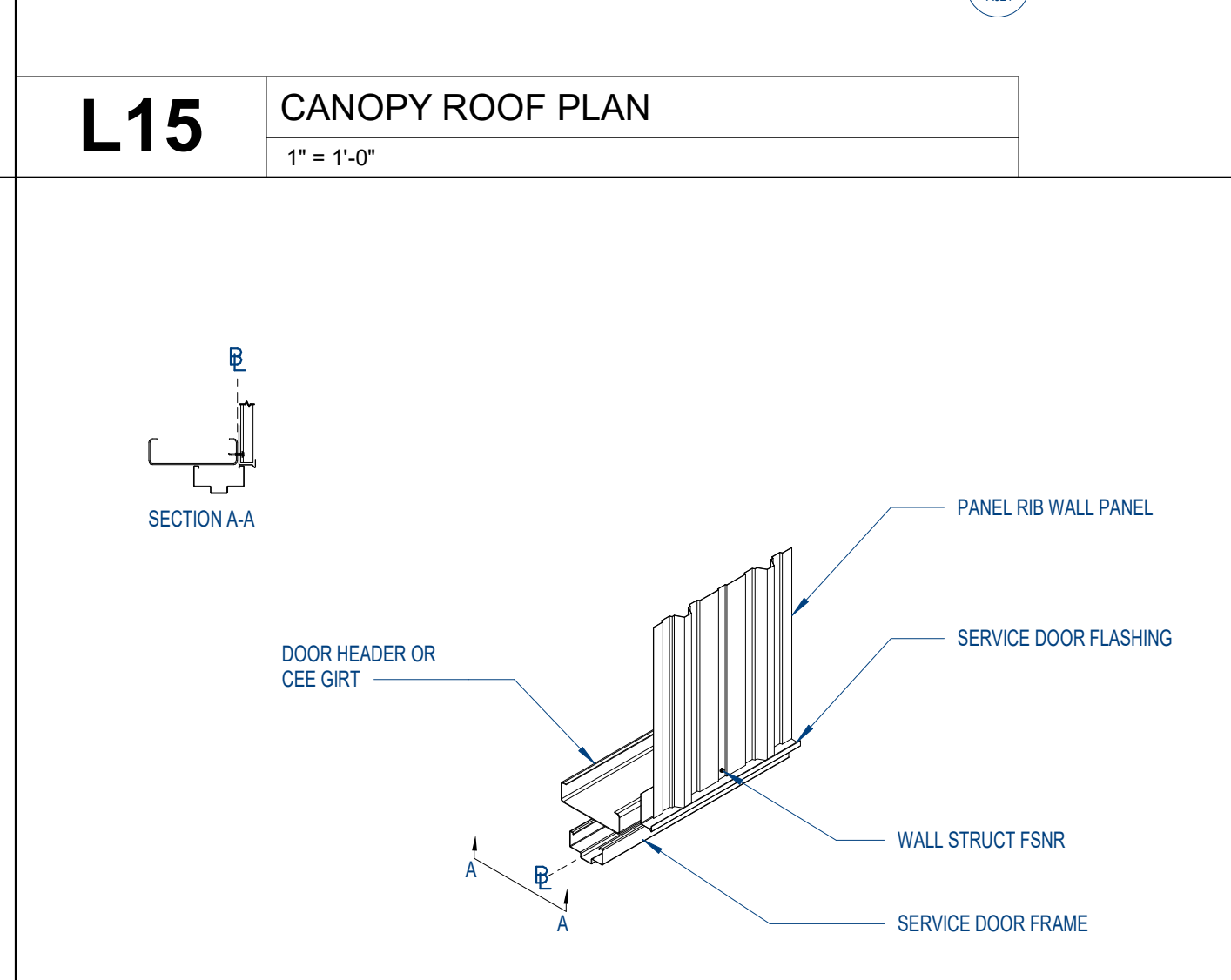
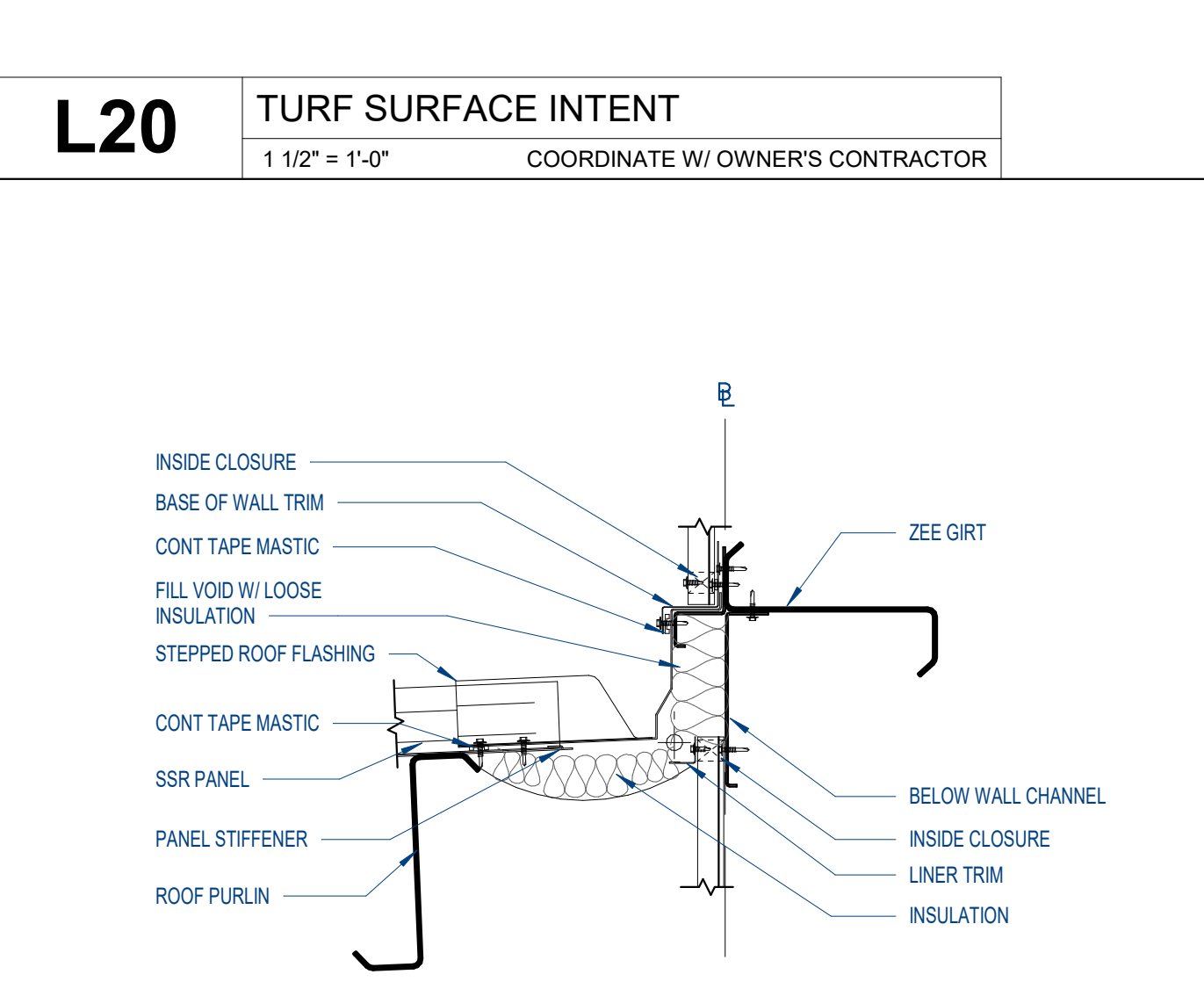
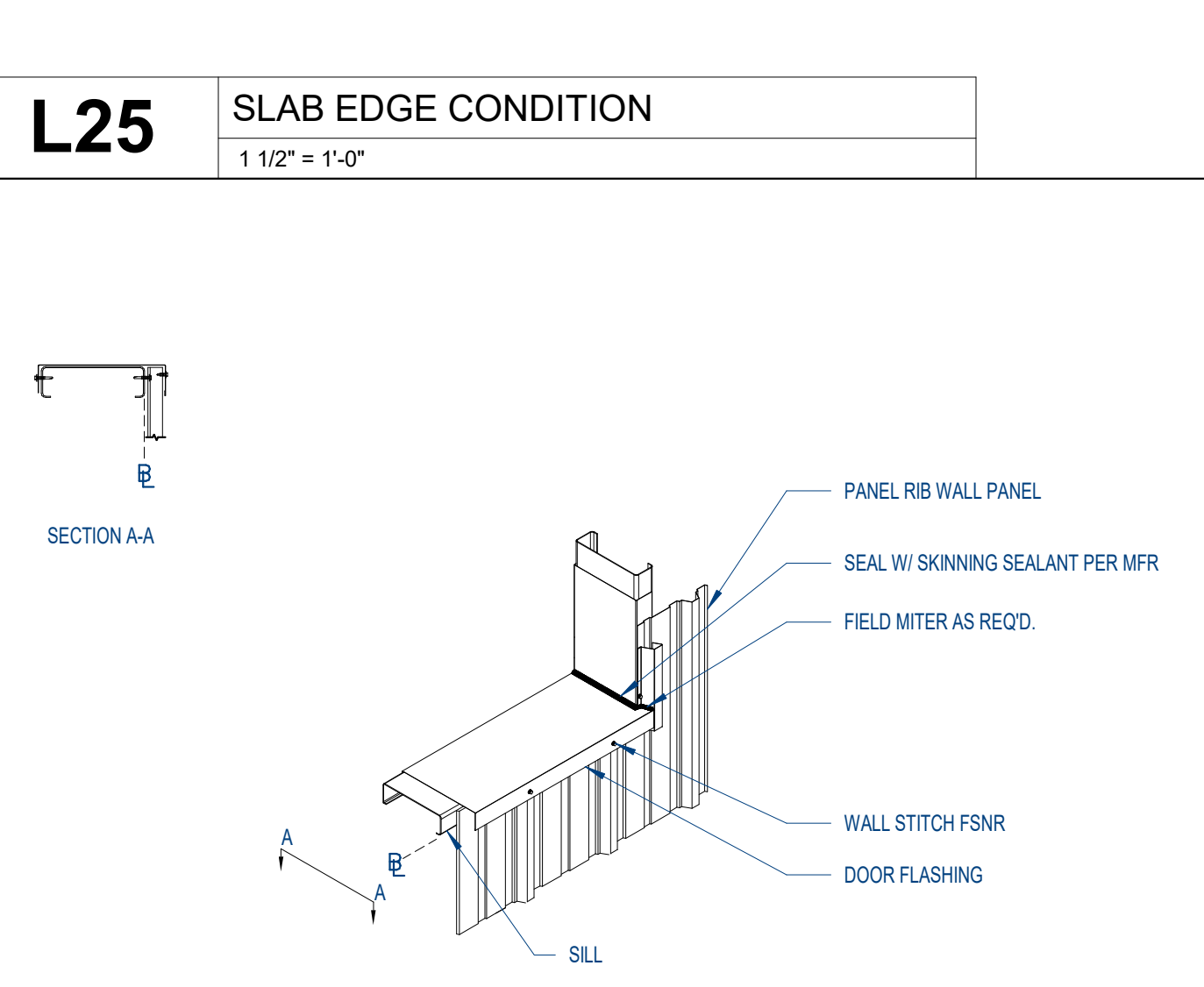
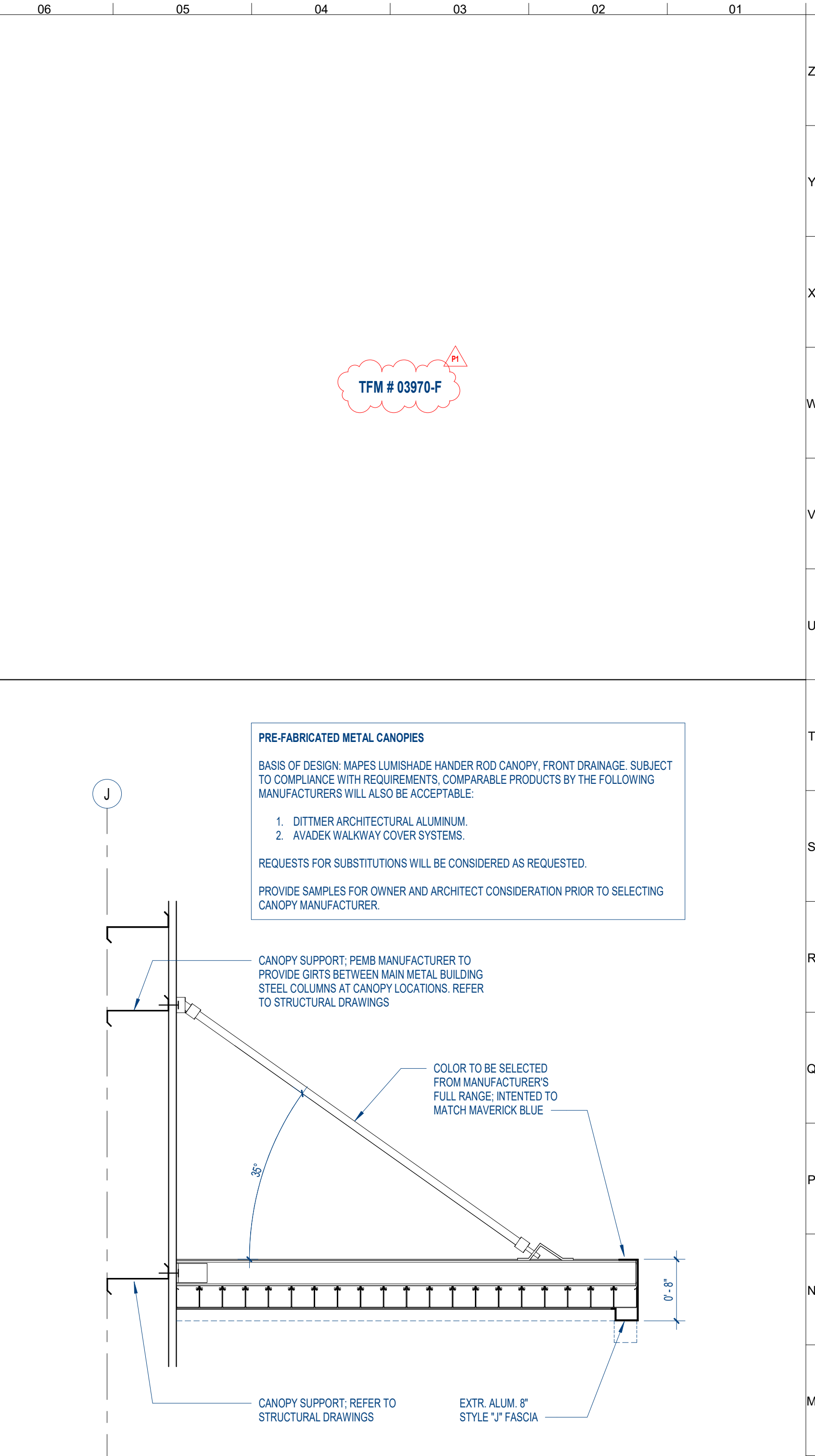
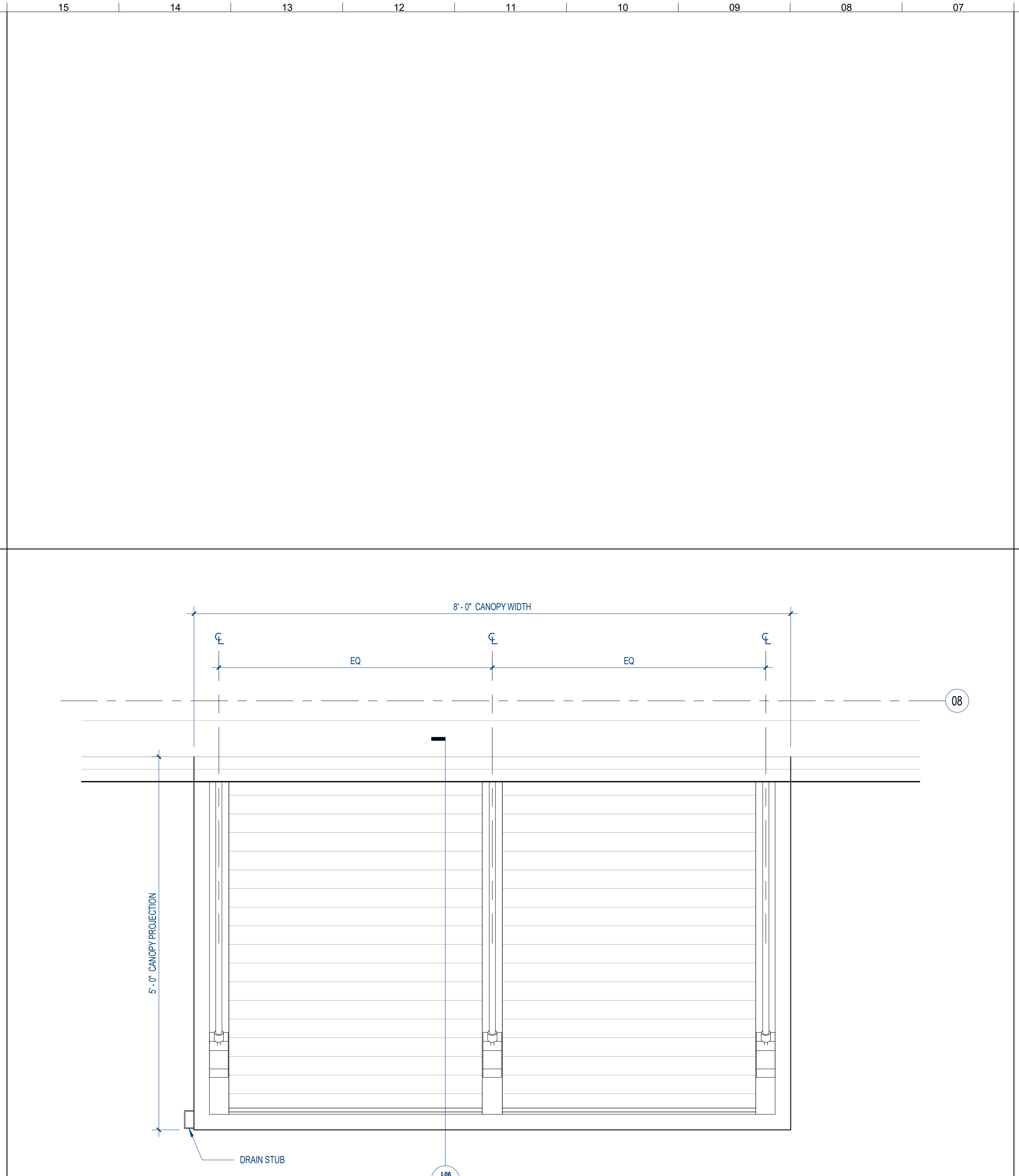
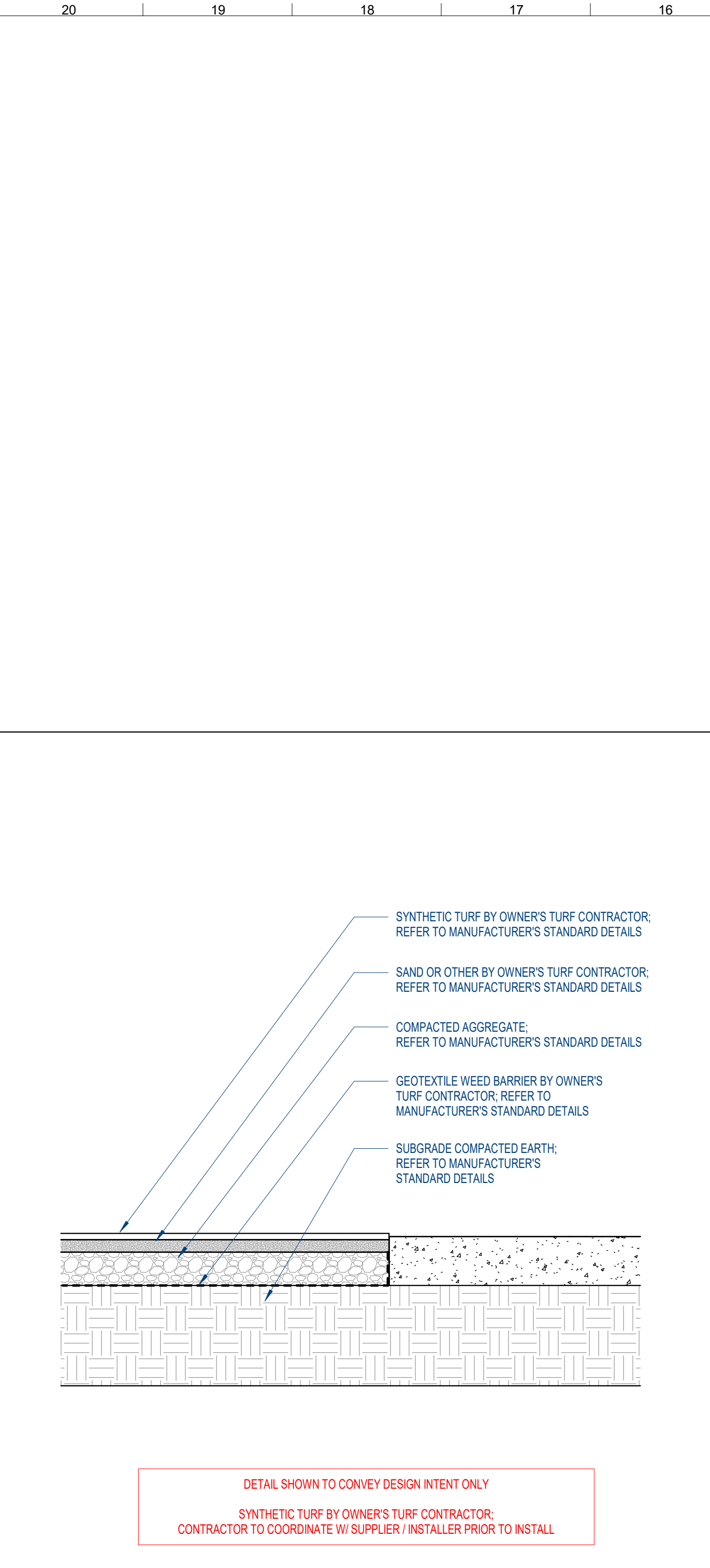
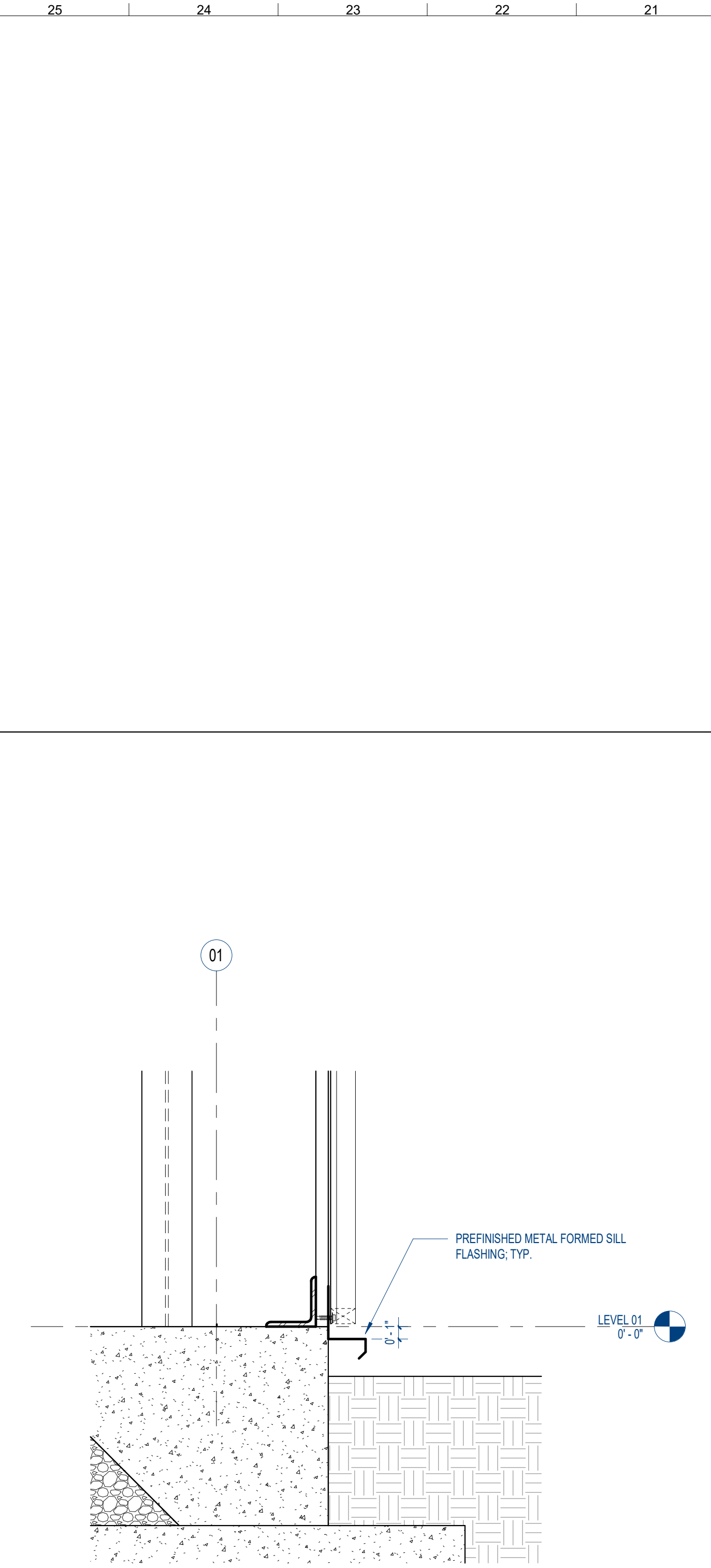
A25 FRONT ENTRY
1/2" = 1'-0"

A18 OVERHEAD DOOR
1/2" = 1'-0"

A12 SOUTH WALL
1/2" = 1'-0"

A06 NORTH WALL
1/2" = 1'-0"

TFM # 03970-F



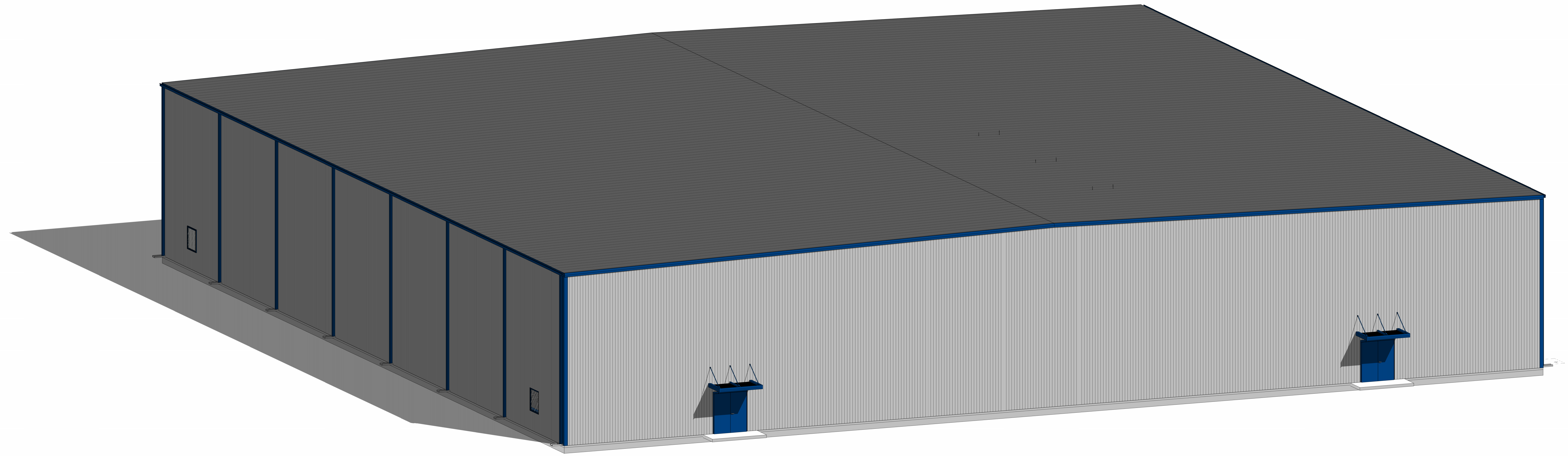
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR FORWARDED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITE DIMENSIONS AND RESOURCES. ALL DRAWINGS AND DETAILS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
PLAN AND SECTION DETAILS

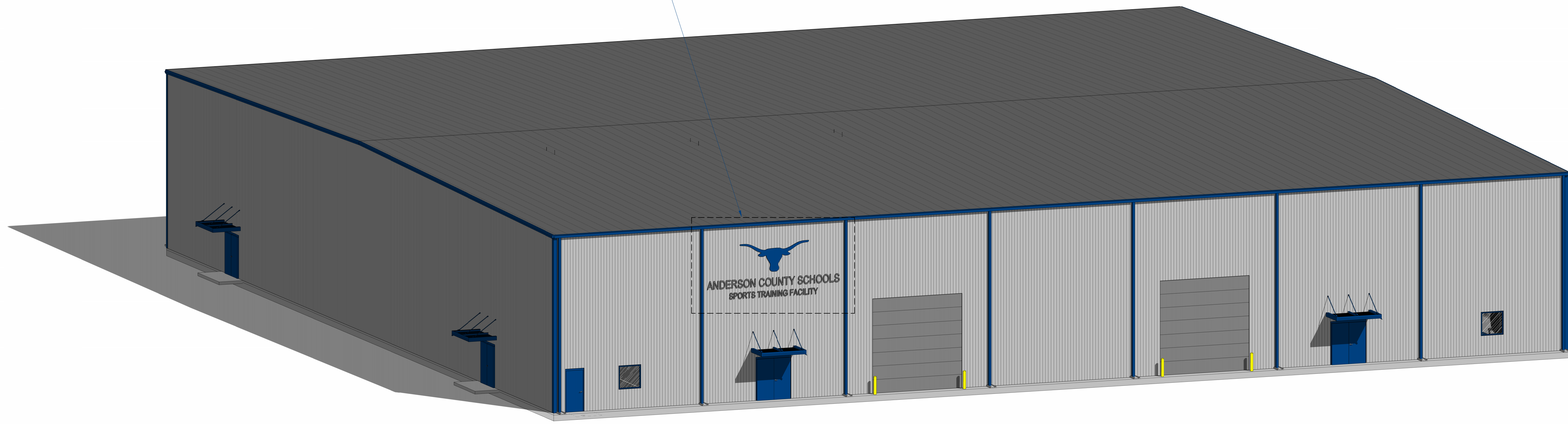
A321
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

12/1/2023 1:30:59 PM



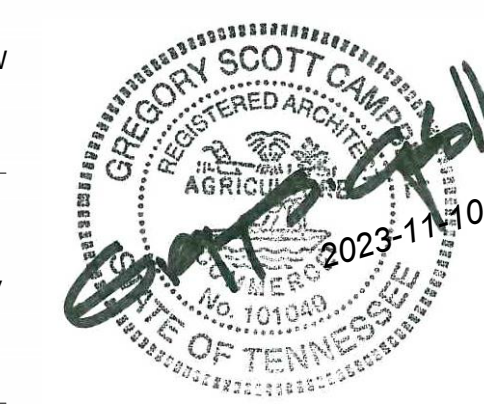
N25 3D VIEW LOOKING NORTH

TFM # 03970-F



OWNER PROVIDED SIGNAGE; NOT IN CONTRACT

A25 3D VIEW LOOKING WEST



A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
3D DRAWINGS

PRELIMINARY HYDRAULIC CALCULATIONS

for ACS FOOTBALL PRACTICE FACILITY

Bedinger Consulting Engineers, P.C.
5641 Merchants Center Blvd. Suite A104
Knoxville, TN 37912

DATE: June 29, 2023 JOB # 23050

FLOW REQUIREMENTS:		
0.10 GPM over the most remote	1500.00	R2 = 150 GPM
Inside hose stream demand	0 GPM	
Outside hose stream demand	100 GPM	
TOTAL FLOW REQUIREMENTS:	250 GPM	

FIRE HYDRANT DATA:	
Static Pressure (PSI)	140
Residual Pressure (PSI)	40
Flow (GPM)	1060
Hydrant Elevation (Feet)	850.00

SPRINKLER SYSTEM DATA:	
Sprinkler "K" factor	5.60
Elevation of highest sprinkler (feet)	940.00
Maximum coverage per sprinkler (ft ²)	225

SUMMARY OF SYSTEM PRESSURE CALCULATIONS:

Minimum End Head Pressure (PSI)	16.14
Static Head Loss or (Gain) (PSI)	38.96
Double Check Valve Loss (PSI)	7.50
Other System Component Losses (PSI)	0.00
Frictional Loss (PSI)	32.42
	SUBTOTAL 95.03
Safety Factor (%): 10	9.50
	TOTAL PSI 104.53

SUMMARY	
REQUIRED PRESSURE:	104.53 PSI AT 250 GPM
AVAILABLE PRESSURE (as per flow curve):	133.09 PSI AT 250 GPM

CONCLUSION:
Available System pressure & flow is adequate - a fire pump is not required.

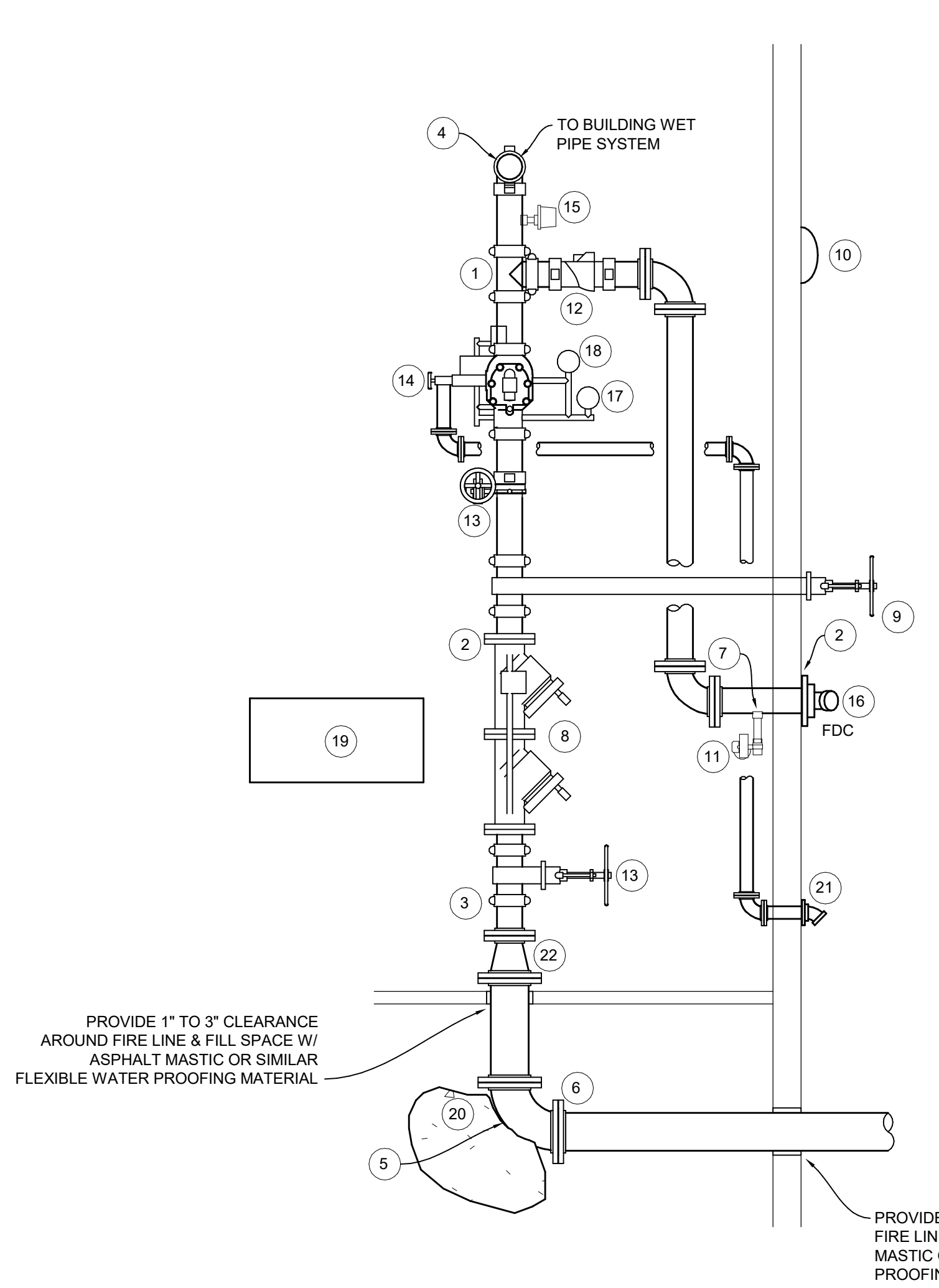
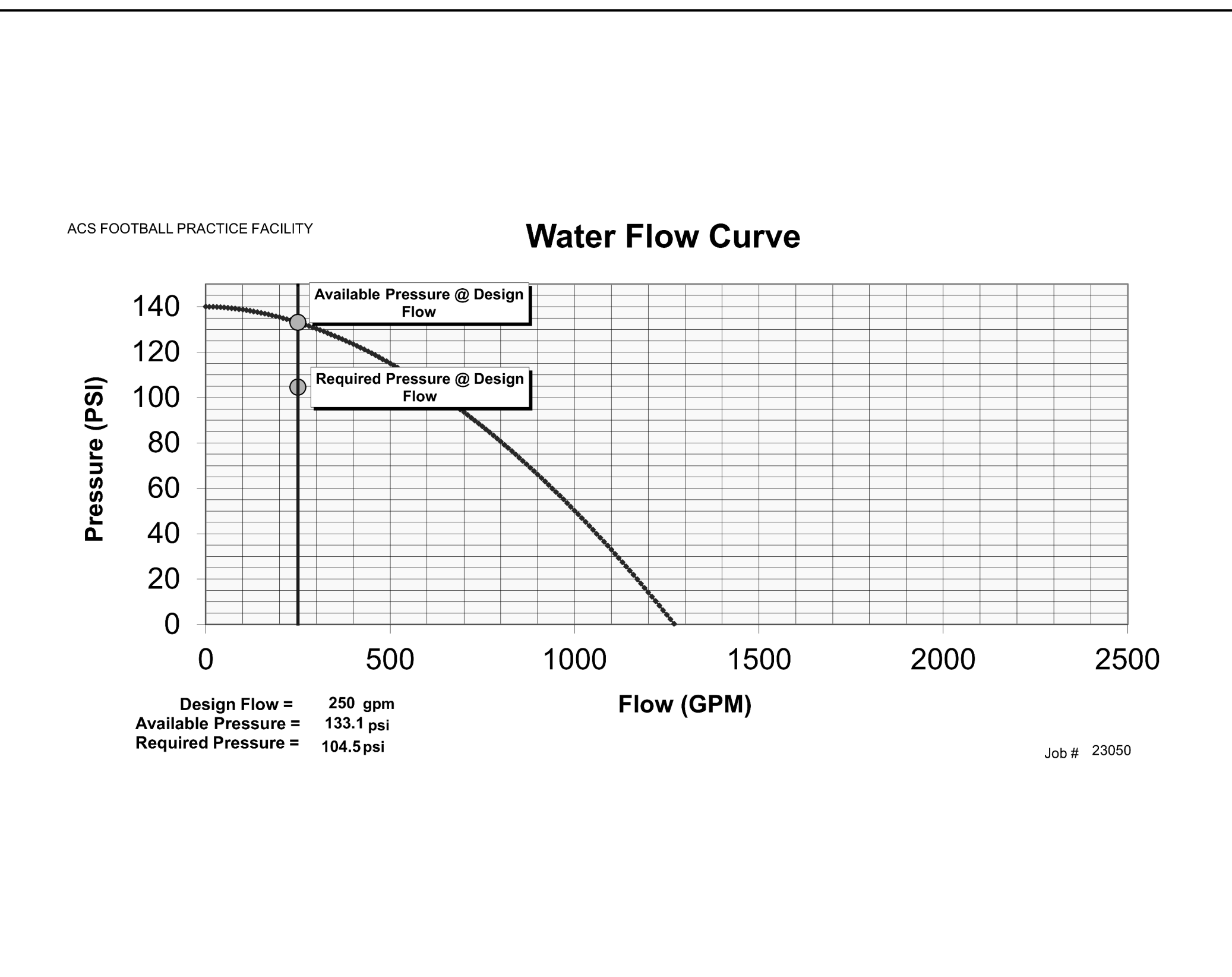
FRICTIONAL LOSS SUMMARY	
SECTION	PSI
"A" to "B"	2.45
"B" to "C"	5.22
"C" to "D"	8.48
"D" to "E"	4.81
"E" to "F"	3.51
"F" to "G"	7.96
TOTAL FRICTIONAL LOSS (PSI)	32.42

NOTES:
(1) Calculations are based on the Hazen-Williams formula

SECTION "A" TO "B"		SECTION "B" TO "C"	
Diameter (inches):	1.00	Diameter (inches):	1.25
Flow (GPM):	22.50	Flow (GPM):	45.00
Actual Length (feet):	10	Actual Length (feet):	15
"C" factor (120 for wet or 100 for dry):	120	"C" factor (120 for wet or 100 for dry):	120
Number of 90 degree elbows:	1	Number of 90 degree elbows:	0
Number of 90 TEEs (or a cross) with flow turned 90 degrees:	0	Number of 90 TEEs (or a cross) with flow turned 90 degrees:	1
Equivalent feet of pipe per elbow:	2	Equivalent feet of pipe per elbow:	3
Equivalent feet of pipe per TEE or cross:	5	Equivalent feet of pipe per TEE or cross:	6
TOTAL equivalent feet of pipe:	12	TOTAL equivalent feet of pipe:	21
Pressure Drop (psi)	2.45	Pressure Drop (psi)	5.22

SECTION "C" TO "D"		SECTION "D" TO "E"	
Diameter (inches):	1.50	Diameter (inches):	2.00
Flow (GPM):	90.00	Flow (GPM):	135.00
Actual Length (feet):	15	Actual Length (feet):	15
"C" factor (120 for wet or 100 for dry):	120	"C" factor (120 for wet or 100 for dry):	120
Number of 90 degree elbows:	0	Number of 90 degree elbows:	0
Number of 90 TEEs (or a cross) with flow turned 90 degrees:	1	Number of 90 TEEs (or a cross) with flow turned 90 degrees:	1
Equivalent feet of pipe per elbow:	4	Equivalent feet of pipe per elbow:	5
Equivalent feet of pipe per TEE or cross:	8	Equivalent feet of pipe per TEE or cross:	10
TOTAL equivalent feet of pipe:	23	TOTAL equivalent feet of pipe:	25
Pressure Drop (psi)	8.48	Pressure Drop (psi)	4.81

SECTION "E" TO "F"		SECTION "F" TO "G"	
Diameter (inches):	4.00	Diameter (inches):	6.00
Flow (GPM):	150.00	Flow (GPM):	250.00
Actual Length (feet):	400	Actual Length (feet):	2850
"C" factor (120 for wet or 100 for dry):	120	"C" factor (120 for wet or 100 for dry):	120
Number of 90 degree elbows:	4	Number of 90 degree elbows:	10
Number of 90 TEEs (or a cross) with flow turned 90 degrees:	0	Number of 90 TEEs (or a cross) with flow turned 90 degrees:	0
Equivalent feet of pipe per elbow:	10	Equivalent feet of pipe per elbow:	14
Equivalent feet of pipe per TEE or cross:	20	Equivalent feet of pipe per TEE or cross:	30
TOTAL equivalent feet of pipe:	440	TOTAL equivalent feet of pipe:	2790
Pressure Drop (psi)	3.51	Pressure Drop (psi)	7.96



- 1 4"x4"x4" VIC FIRELOCK TEE NO. 002
- 2 4" VIC FIRELOCK FLANGE ADAPTER STYLE 744
- 3 4" VIC FIRELOCK COUPLING STYLE 009N
- 4 4" VIC FIRELOCK 90 DEG ELBOW NO. 001
- 5 6" BUTTWELD 90 DEG LR ELBOW STANDARD WEIGHT
- 6 6" 150 LB SLIP-ON FLANGE
- 7 1" 150 LB HALF COUPLING
- 8 DOUBLE DETECTOR CHECK VALVE
- 9 VIC WALL POST INDICATOR S/773 & 4" VIC FIRELOCK NRS GATE VALVE SERIES 772H GRV X GRV WITH TAMPER SWITCH
- 10 APPROVED AUDIBLE DEVICE MOUNTED ON EXTERIOR OF BUILDING
- 11 1" VIC FIRELOCK BALL VALVE SERIES 728 THREADED
- 12 4" FIRELOCK CHECK VALVE SERIES 717
- 13 4" FIRELOCK BUTTERFLY VALVE SERIES 705 WITH WEATHERPROOF ACT 300 PSI & BUILT IN TAMPER SWITCH
- 14 4" FIRELOCK ALARM CHECK VALVE SERIES 751 W/ SERIES 752 FIRELOCK RETARD CHAMBER, SERIES 760 WATER MOTOR ALARM, DRAIN CONNECTION KIT & ALARM PRESSURE SWITCHES
- 15 ALARM PRESSURE SWITCH
- 16 3/8" FIRE DEPARTMENT INLET CONNECTION - VERIFY EXACT REQUIREMENTS WITH LOCAL AHJ
- 17 SUPPLY PRESSURE GAUGE
- 18 SYSTEM PRESSURE GAUGE
- 19 SPARE SPRINKLER HEAD CABINET
- 20 CONCRETE THRUST BLOCK
- 21 2" DRAIN OUTLET
- 22 6"x4" CONCENTRIC REDUCER

FIRE RISER DETAIL
N.T.S.

GENERAL NOTES:

1. THESE DRAWINGS ARE FOR CONCEPT ONLY. THEY ARE NOT INTENDED TO BE USED FOR TAKE-OFF, ACTUAL HEAD NUMBERS OR ACTUAL DESIGN USE. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM COMPLETE WITH ALL WORKING PARTS IN ACCORDANCE WITH ALL APPLICABLE CODES. PROVIDE ANY ADDITIONAL HEADS REQUIRED DUE TO BLIND OR SHADED AREAS AT NO ADDITIONAL COST. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PRELIMINARY HYDRAULIC CALCULATIONS ARE BASED ON MEASURED FLOW AT EXISTING PRIVATE FIRE HYDRANT "WYVEXBC" NEAR THE FRONT ENTRANCE OF THE HIGH SCHOOL. FLOW TEST BY MORRISTOWN AUTOMATIC SPRINKLER CO. AUGUST 01, 2023.
FLOW TEST CONDUCTED BY AUSTIN DUNN
STATIC PRESSURE: 140 PSI
RESIDUAL PRESSURE: 40 PSI AT 1060 GPM
HYDRANT ELEVATION = 880 FT.
3. ALL VALVES IN THE LINE FROM THE POINT OF SERVICE (POS) ARE TO BE ELECTRONICALLY SUPERVISED. ALL WORK PERFORMED DOWNSTREAM OF THE POS SHALL BE PERFORMED BY A STATE OF TENNESSEE REGISTERED SPRINKLER CONTRACTOR.
4. ALL SYSTEM VALVES AND GAUGES SHALL BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE.

DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 / fx 865.544.3840
www.dia-arch.com

DAVID M. BLAKNEY
REGISTERED PROFESSIONAL ENGINEER
STATE OF TENNESSEE
1950
NO. 14770

BCE
BEDINGER CONSULTING ENGINEERS
5641 MERCHANTS CENTER BLVD. STE A104
KNOXVILLE, TENNESSEE 37912
T 865.637.8339 • F 865.523.8186
BCE1946.COM

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
PRELIMINARY HYDRAULIC CALCULATIONS

FP001
PROJECT DATE 2023-10-17
PROJECT NUMBER 23030

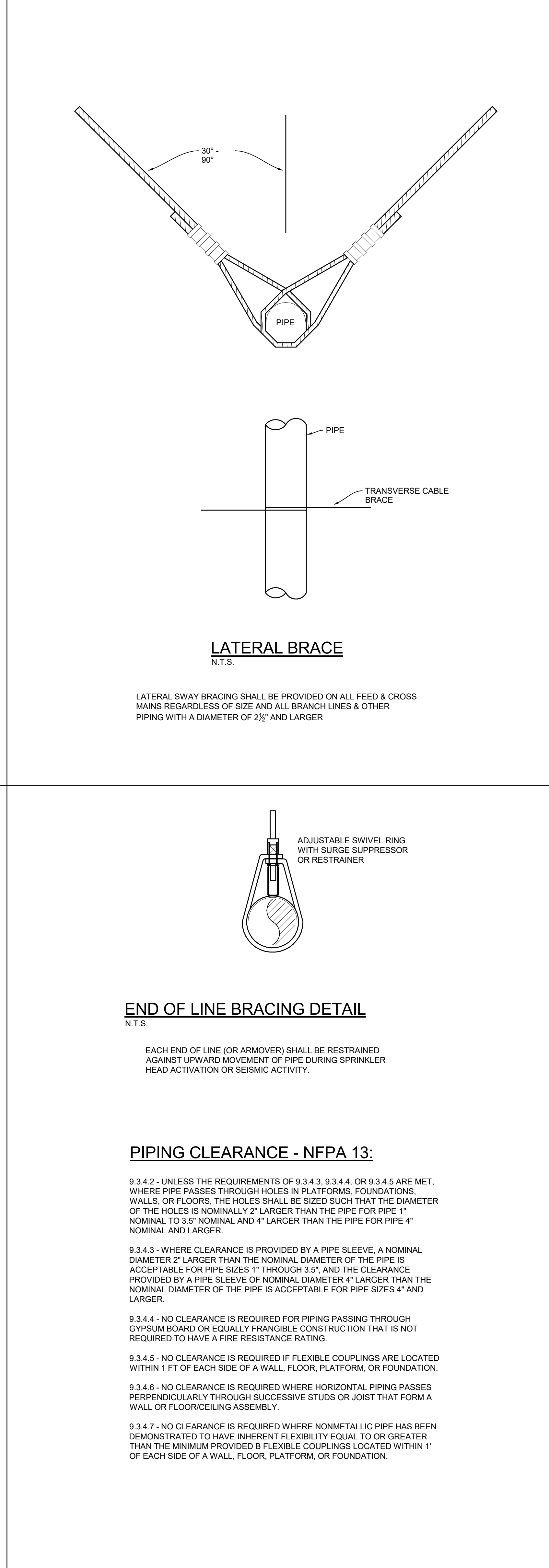
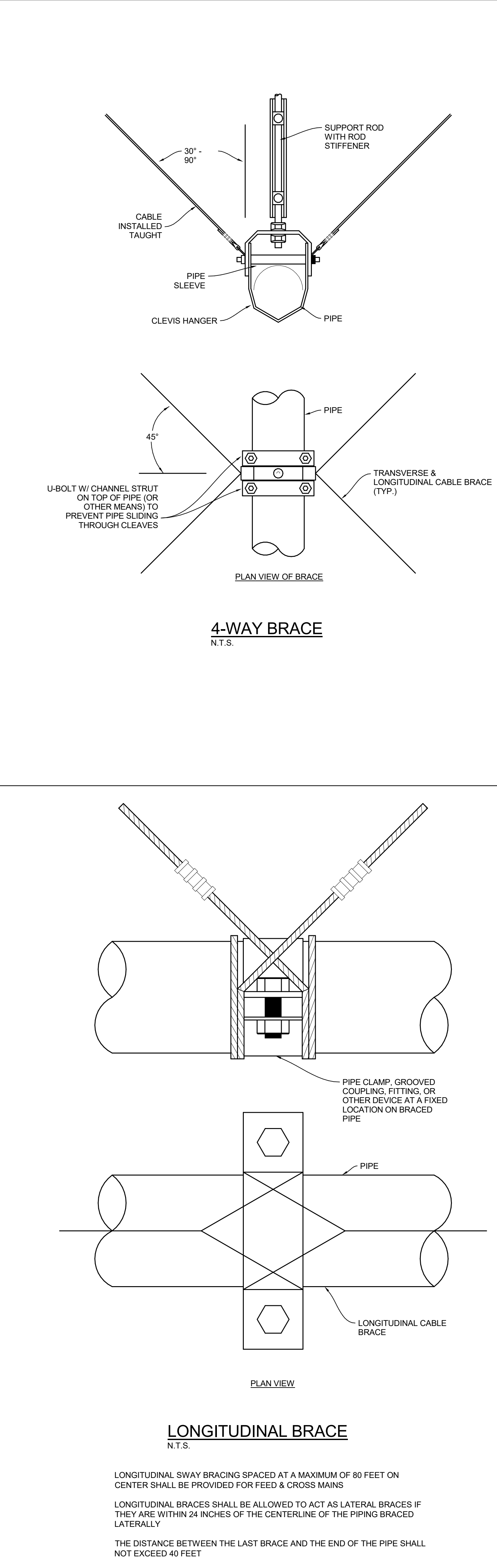
TFM # 03970-F

SPRINKLER LEGEND

SYMBOL	GENERAL DESCRIPTION	K FACTOR	TYPE	VICTAULIC MODEL	TEMPERATURE RATING (°F)
●	RECESSED PENDENT	5.6	QUICK RESPONSE	V2708	155
○	UPRIGHT	5.6	QUICK RESPONSE	V2704	155

FIRE PROTECTION SPECIFICATIONS

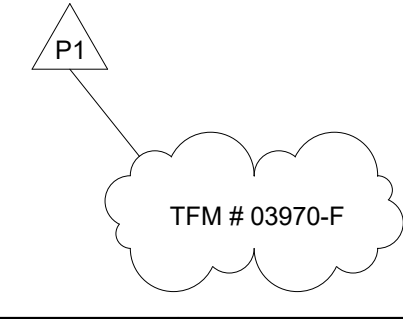
- FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND PERFORM ALL WORK AND SERVICES NECESSARY FOR OR INCIDENTAL TO THE FURNISHING AND INSTALLATION, COMPLETE, OF ALL FIRE PROTECTION SYSTEMS. ALL MATERIAL SHALL BE NEW, UNUSED, AND OF FIRST CLASS CONSTRUCTION, DESIGNED AND GUARANTEED TO PERFORM THE SERVICE REQUIRED.
- THE LOCAL AUTHORITY HAVING JURISDICTION SHALL APPROVE ALL WORK AND MATERIAL. THE FIRE PROTECTION / FIRE DETECTION AND ALARM SYSTEMS SHALL USE UL LISTED MATERIALS AND EQUIPMENT, AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND NFPA 13.
- THE FIRE PROTECTION DRAWINGS CONTAINED WITHIN THE CONSTRUCTION DOCUMENTS ARE FOR CONCEPT ONLY. THE INSTALLING SPRINKLER CONTRACTOR SHALL SUBMIT DIRECTLY TO THE FIRE MARSHAL'S OFFICE, OR OTHER INSPECTION AGENCIES, FOR REVIEW DETAILED INSTALLATION DRAWINGS AND HYDRAULIC CALCULATIONS. THE DRAWINGS AND CALCULATIONS SHALL BE SIGNED BY A RESPONSIBLE MANAGING EMPLOYEE AND SUBMITTED BY A REGISTERED FIRE PROTECTION CONTRACTOR. THE SPRINKLER CONTRACTOR SHALL SUBMIT APPROVED INSTALLATION DRAWINGS TO THE ARCHITECT PRIOR TO COMMENCING WORK. THE SPRINKLER CONTRACTOR'S INSTALLATION DRAWINGS, ESPECIALLY SPRINKLER HEAD LOCATIONS, SHALL BE COORDINATED WITH THE ARCHITECTURAL, REFLECTED CEILING PLAN AND OTHER ARCHITECTURAL OR STRUCTURAL FEATURES OF THE BUILDING. THE SYSTEM SHALL BE INSTALLED ACCORDING TO THE APPROVED DRAWINGS.
- THE SHOP DRAWINGS TO BE PREPARED BY THE FIRE PROTECTION CONTRACTOR NOTED IN ITEM #3 ABOVE SHALL BE REVIEWED & PROCESSED WITH A SHOP DRAWING REVIEW STAMP BY THE ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE TSMO.
- SEISMIC DESIGN CATEGORY 'C'; BUILDING RISK CATEGORY II
- THE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED TO PROVIDE A DENSITY OF 0.10 GPM PER SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. FOR ALL SPACES (LIGHT HAZARD) EXCEPT STORAGE ROOMS WHERE 0.20 GPM PER SQ. FT. OVER THE MOST REMOTE 1500 SQ. FT. SHALL BE USED (ORDINARY HAZARD GROUP 1).
- THE SPRINKLER SYSTEM SHALL BE WET TYPE.
- ALL INTERIOR PIPING ABOVE GROUND SHALL BE SCHEDULE 40 OR SCHEDULE 10 BLACK STEEL PIPE WITH 175 POUND C.I. OR VICTAULIC COUPLINGS, 2 INCHES AND LARGER. CONNECTIONS AROUND VALVES AND SERVICE CONNECTIONS MAY BE 175 POUND FLANGED, GROOVED END FITTINGS SHALL BE SHORT-PATTERN WITH FLOW EQUAL TO STANDARD PATTERN FITTINGS. VICTAULIC "FIRELOCK" OR VICTAULIC INSTALLATION READY FITTINGS, FITTINGS 2" AND LARGER SHALL BE 175 POUND C.I. GROOVED JOINT COUPLINGS SHALL CONSIST OF TWO DUCTILE IRON HOUSING SEGMENTS, PRESSURE RESPONSIVE ELASTOMER GASKET AND ASTM A-449 ZINC-ELECTROPLATED STEEL BOLTS AND NUTS.
- IN LIEU OF THREADED 1" STEEL PIPING SYSTEMS, THE VICTAULIC FIRELOCK IGS SYSTEM WITH IR FITTINGS AND COUPLINGS FOR NPS 1 (DN 25) SCHEDULE 10 AND SCHEDULE 40 CARBON STEEL PIPE MAY BE USED.
- RIGID COUPLING HOUSINGS EQUAL TO VICTAULIC STYLE 009H AND 107N WITH OFFSETTING, ANGLE- PATTERN BOLT PADS SHALL BE USED TO PROVIDE SYSTEM RIGIDITY AND SUPPORT AND HANGING IN ACCORDANCE WITH NFPA-13. COUPLINGS SHALL BE FULLY INSTALLED AT VISUAL PAD-TO-PAD OFFSET CONTACT. COUPLINGS THAT REQUIRE GAPPING OF BOLT PADS OR SPECIFIC TORQUE RATINGS FOR PROPER INSTALLATION ARE NOT PERMITTED. INSTALLATION READY, FOR DIRECT STAB INSTALLATION WITHOUT FIELD DISASSEMBLY. FLEXIBLE USE IN LOCATIONS WHERE VIBRATION ATTENUATION AND STRESS RELIEF ARE REQUIRED. COUPLINGS SHALL BE EQUAL TO VICTAULIC STYLE 177 INSTALLATION-READY, AND STYLE 75 AND 77.
- AT THE CONTRACTORS OPTION AND WHERE APPROVED BY NFPA, THE INSURANCE CARRIER AND LOCAL AUTHORITIES HAVING JURISDICTION, ALL INTERIOR CONCEALED PIPING 3" AND SMALLER MAY BE CPVC SDR 13.5 EQUAL TO BLAZEMASTER. THE PIPING SHALL BE ASSEMBLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- PV, O.S. & V. VALVES AND CHECK VALVES SHALL BE APPROVED BY NFPA EQUAL TO VICTAULIC "SERIES 771". TEST AND DRAIN VALVES SHALL BE APPROVED AND CONFORM TO REQUIREMENTS OF NFPA. ALL PV AND O.S. & V. VALVES USED ON THE FIRE PROTECTION SYSTEM SHALL HAVE PROVISIONS FOR PADLOCKING AND SWITCHES FOR MONITORING POSITION OF THE VALVE.
- BUTTERFLY VALVES SHALL BE EQUAL TO VICTAULIC SERIES 705 FIRELOCK, UL/GLOBAL APPROVED, 300 PSI, GROOVED ENDS, COATED DUCTILE IRON BODY CONFORMING TO ASTM A-536, GRADE 65-45-12, WITH EXTENDED NECK, ELECTROLESS-NICKEL COATED DUCTILE IRON DISC WITH PRESSURE RESPONSIVE SEAT AND STAINLESS STEEL STEM. STEM SHALL BE OFFSET FROM THE DISC CENTERLINE TO PROVIDE COMPLETE 360 DEGREE CIRCUMFERENTIAL SEATING. COMPLETE WITH WEATHERPROOF ACTUATOR AND PRE-WIRED SUPERVISORY SWITCHES.
- CHECK VALVES SHALL BE EQUAL TO VICTAULIC SERIES 717 BLACK ENAMEL COATED DUCTILE IRON BODY CONFORMING TO ASTM A-536, GRADE 65-45-12, STAINLESS STEEL SPRING AND SHAFT, WELDED-IN NICKEL SEAT, 250 PSI, SUITABLE FOR VERTICAL OR HORIZONTAL INSTALLATION.
- ALARM CHECK VALVE SHALL BE EQUAL TO VICTAULIC FIRELOCK SERIES 751 BLACK ENAMEL COATED DUCTILE IRON BODY CONFORMING TO ASTM A-536, GRADE 65-45-12, ALUMINUM BRONZE CLAPPER, STAINLESS STEEL SPRING AND SHAFT, EPDM SEAL AND NITRILE SEAT. VALVE INTERNAL PARTS SHALL BE REPLACEABLE WITHOUT REMOVING THE VALVE FROM THE INSTALLED POSITION. WATER WORKING PRESSURE IS 300 PSI. SUITABLE FOR CONSTANT AND VARIABLE PRESSURE SYSTEMS WITH OPTIONAL SERIES 752 RETARD CHAMBER.
- RISER CHECK & FLOOR CONTROL ASSEMBLY MAY BE USED & SHALL BE EQUAL TO VICTAULIC MODEL UMC, UNIVERSAL MANIFOLD CHECK VALVE, DUCTILE IRON CONSTRUCTION INCORPORATING A CONTROL VALVE, FLOW SWITCH, TEST & DRAIN ASSEMBLY, ADJUSTABLE RELIEF VALVE & SYSTEM GAUGES IN ONE COMPACT BODY. THE ASSEMBLY SHALL BE RATED FOR USE AT THE MAXIMUM SERVICE PRESSURE OF 300 PSI & SHALL BE UL LISTED & FM APPROVED.
- CONTRACTOR TO VERIFY FIRE DEPARTMENT CONNECTION REQUIREMENTS WITH LOCAL AHJ.
- THESE DRAWINGS ARE FOR CONCEPT ONLY, THEY ARE NOT INTENDED TO BE USED FOR TAKE-OFF. ACTUAL HEAD NUMBERS OR ACTUAL DESIGN USE. THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE WORKING SYSTEM COMPLETE WITH ALL WORKING PARTS IN ACCORDANCE WITH ALL APPLICABLE CODES. PROVIDE ANY ADDITIONAL HEADS REQUIRED DUE TO BLIND OR SHADED AREAS AT NO ADDITIONAL COST.
- INSTALL APPROVED DRAINS AT LOW POINTS OF ALL PIPING TO PERMIT COMPLETE DRAINAGE OF SYSTEM WITHOUT DISCONNECTION OF ANY PIPING. FLOW SWITCH TEST DRAINS AND OTHER DRAINS SHALL BE RUN THROUGH OUTSIDE WALL AND DISCHARGED IN A MANNER APPROVED BY NFPA.
- INSTALL AN APPROVED SINGLE AIR VENT NEAR HIGHEST POINT IN THE SYSTEM TO ALLOW AIR TO BE REMOVED IN A MANNER APPROVED BY NFPA.
- INSTALL AN APPROVED INSPECTOR'S TEST CONNECTION AT THE END OF THE BRANCH LINE THAT IS MOST REMOTE FROM THE SYSTEM SUPPLY AND AT THE HIGHEST POINT ON THE SYSTEM. THE DISCHARGE FROM THE INSPECTOR'S TEST MUST BE UNOBSTRUCTED AND VISIBLE AND LOCATED IN A MANNER APPROVED BY NFPA.
- ALL SPRINKLER HEADS SHALL BE THE QUICK RESPONSE TYPE AND BE UL LISTED. ALL SPRINKLER HEADS SHALL BE OF TYPE AND OPERATING TEMPERATURE AS REQUIRED BY SPECIFIC LOCATIONS OF INSTALLATION. VICTAULIC FIRELOCK STYLE V9 COUPLING MAY BE USED TO JOIN ½", ¾" AND 1" SPRINKLERS.
- ALL SPRINKLER HEADS LOCATED IN HORIZONTAL, FLAT CEILINGS IN FINISHED SPACES SHALL BE RECESSED, CHROME PENDANT TYPE HEADS. SPRINKLER HEADS IN THE PENTHOUSE, STAIRWELLS AND OTHER UNFINISHED SPACES SHALL BE BRASS UPRIGHT TYPE. TWO PIECE ESCUTCHEONS SHALL BE USED.
- FLEXIBLE HOSE CONNECTIONS TO SPRINKLER HEADS MAY BE USED BUT SHALL BE EQUAL TO VICTAULIC AH2/AH2CC HOSE WITH A82 BRACKET. IN LIEU OF RIGID CONNECTIONS TO DRY SPRINKLER HEADS, A VICTAULIC VICTEX™ DRY SPRINKLER, MODEL VS1, MAY BE USED. THE SPRINKLER SHALL PROVIDE A VERTICAL OR HORIZONTAL FLEXIBLE CONNECTION WITH A BEND RADIUS TO 2", AND ALLOW FOR UP TO 4 BENDS. VICTAULIC A86 BRACKET MAY BE USED.
- ALL SPRINKLER HEADS SHALL BE FURNISHED & INSTALLED WITH WIRE GYM GUARDS.
- ALL SPRINKLER HEADS LOCATED IN THE ELEVATOR MACHINE ROOMS AND SHAFTS SHALL BE 212-DEGREE HEADS. THE PIPING SHALL ONLY ENTER THE SHAFT AND/OR MACHINE ROOM TO ACCOMMODATE THE LOCATION OF THE HEAD. SHUT OFF VALVES SHALL BE PROVIDED FOR EACH BRANCH LINE IN ACCESSIBLE LOCATIONS OUTSIDE OF THE EQUIPMENT ROOMS, MACHINE ROOMS, AND PITS. THESE VALVES SHALL BE LISTED AND SUPERVISED ELECTRICALLY.
- SPARE HEADS OF EVERY TYPE USED ON THE PROJECT SHALL BE INCLUDED IN THE SPARE HEAD CABINET. A SPRINKLER WRENCH SPECIFICALLY ADAPTED TO REMOVAL AND REPLACEMENT OF EVERY TYPE OF HEAD USED ON THE PROJECT SHALL BE INCLUDED IN THE SPARE HEAD CABINET.
- THE SPRINKLER SYSTEM SHALL COMPLY WITH ALL CODES, REQUIREMENTS, REGULATIONS AND PROVISIONS OF THE LAW OF THE STATE OF TENNESSEE AND NFPA.
- WORK INCLUDED HEREIN SHALL INCLUDE ALL TESTS AND INSPECTIONS BY THE INSPECTING AGENCIES AND ANY PERMITS OR INSPECTION FEES CONNECTED THEREWITH. FOLLOWING ALL TESTING, THE SYSTEM SHALL BE RETURNED TO A FUNCTIONAL AND OPERATIONAL CONDITION AT NO EXTRA COST TO THE OWNER. AFTER APPROVAL, THE CONTRACTOR SHALL OBTAIN THE APPROVAL CERTIFICATES AND DELIVER THEM TO THE ARCHITECT.

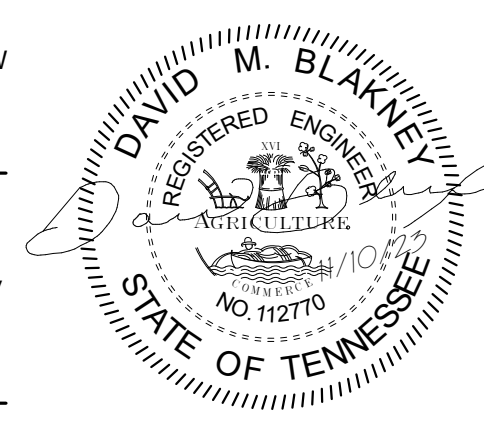


NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN AND IS NOT TO BE USED FOR OTHER PROJECTS. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DETAILS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © 6 DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
DETAILS & SPECIFICATIONS

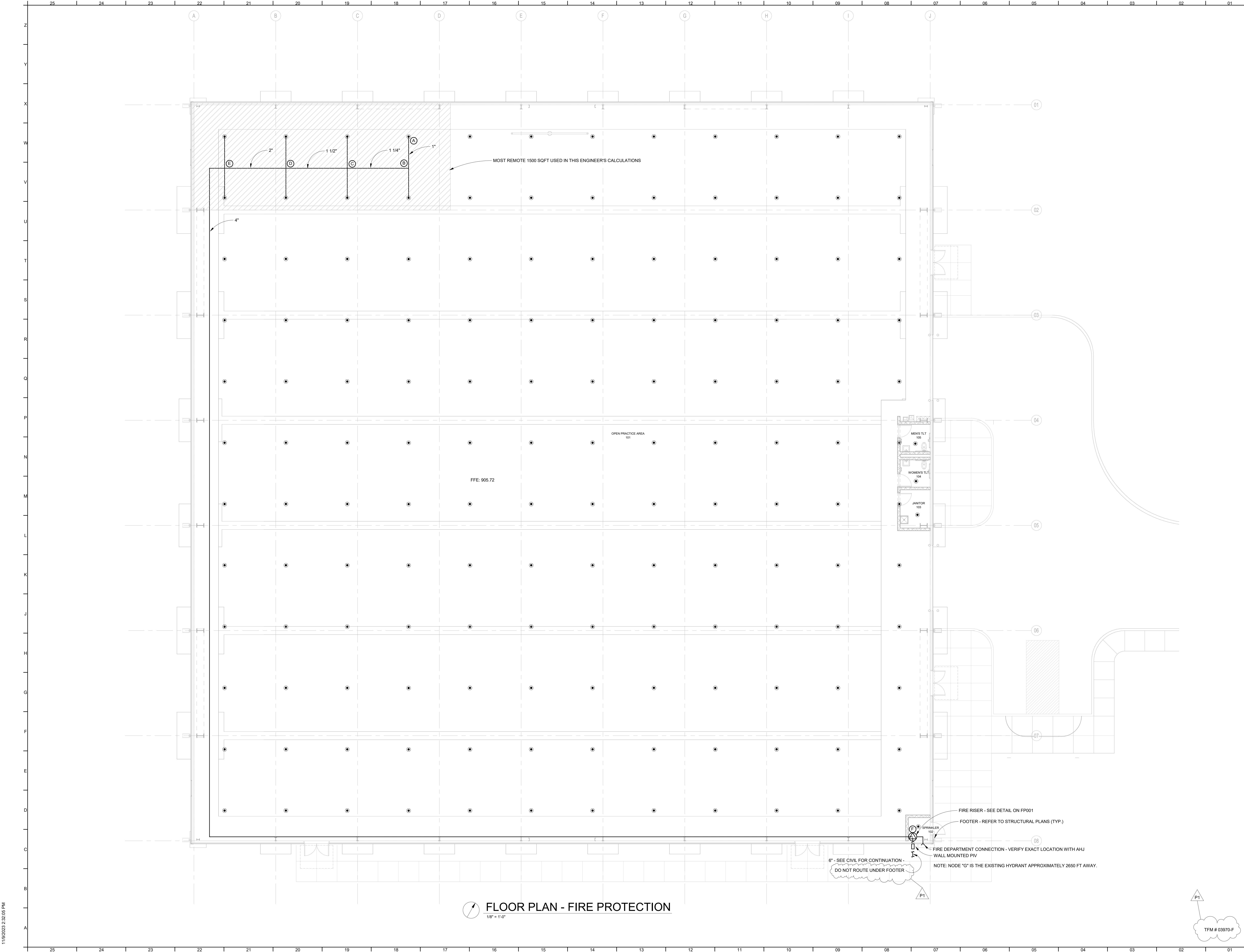




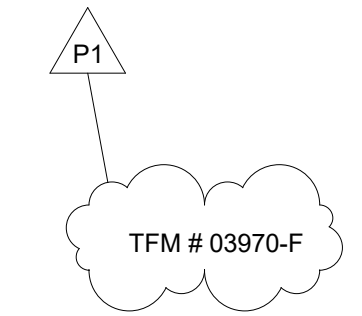
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FLOOR PLAN - FIRE PROTECTION



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



PLUMBING FIXTURE SCHEDULE					
ITEM	DESCRIPTION	SPECIFICATION	CW	HW	REMARKS
W	WATER CLOSET (ADA)	ZURN, Z5665-BWL1 1.6, 1.28 OR 1.1GPF ADA SIPHON JET FLUSH ACTION FLOOR MOUNTED ADA HEIGHT WATER CLOSET WITH 2-1/8" FULLY GLAZED TRAPWAY	1"		
	FLUSH VALVE	ZURN, Z6000AV-W51 AQUAVANTAGE MANUAL OPERATED FLUSH VALVE 1.6 GPF CLOG RESISTANT TRIPLE FILTERED BY-PASS, DUAL SEAL AND CHLORAMINE RESISTANT INTERNAL PARTS.			
	SEAT	ZURN, Z59555S-EL-ST5 ELONGATED WHITE OPEN FRONT TOILET SEAT LESS COVER WITH SELF SUSTAINING STAINLESS STEEL CHECK HINGE			
L	LAVATORY (ADA)	ZURN, Z5344 20"x18" WALL HUNG 4"CC VITREOUS CHINA CONCEALED ARM LAVATORY	1/2"	1/2"	
	FAUCET	ZURN, Z7440-XL-FC SIERRA SINGLE HANDLE 4CC LAVATORY FAUCET WITH .5GPM AERATOR AND CERAMIC DISC CARTRIDGE			
	DRAIN	ZURN, Z8743-PC 1-1/4" CHROME PLATED CAST BRASS 17GA GRID DRAIN			
	SUPPLIES	ZURN, Z8804-XL-8860-20-LRC-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEONS, 1/4 TURN CHROME PLATED STOPS AND 20 INCH BRAIDED STAINLESS STEEL SUPPLY LINES			
	P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT			
	THERMOSTATIC MIXING VALVE	SYMMONS, 8-210-CK MAXLINE 3/8" THERMOSTATIC ASSE 1017/1070 MIXING VALVE			
EWC	BOTTLE FILLER	ELKAY, LZSTL8WSP VERSATILE HIGH SIDE 8I-LEVEL WALL MOUNTED STAINLESS STEEL NON-PRESSURIZED WATER COOLER WITH FLEX GUARD BUBBLER, 3000 GALLON FILTER, SENSOR ACTIVATED 1.1GPM BOTTLE FILLER WITH LED LIGHTS, LED FILTER MONITOR AND BOTTLES FILLED COUNTER, 115V/60HZ	1/2"		
	SUPPLY	ZURN, Z8804-XL-8860-CR-Q-PC 1/2" X 3/8" COMP X COMP LAVATORY SUPPLY KIT WITH ESCUTCHEON, 1/4 TURN CHROME PLATED STOP AND BRAIDED STAINLESS STEEL SUPPLY LINE			
SS	P-TRAP	ZURN, Z8700-PC 1-1/4" CAST BRASS 17GA P-TRAP WITH CLEANOUT			
	CARRIER	PROVIDE WITH APPROPRIATE APPROVED ZURN CARRIER			
FD	SINK	ZURN, Z1996-24-BV-24-HH-MH-WG 24" X 24" MOLDED COMPOSITE FLOOR SERVICE SINK WITH STAINLESS STEEL STRAINER, WALL GUARDS, AND VINYL BUMPER GUARD			
	FAUCET	ZURN, Z841M1-RC SERVICE SINK FAUCET WITH 6" VACUUM BREAKER SPOUT, LEVER HANDLES, PAIL HOOK AND WALL BRACE			
FCO	FLOOR DRAIN	ZURN, ZN4158P DURA-COATED CAST IRON BODY FLOOR DRAIN WITH 8" POLISHED NICEL BRONZE STRAINER WITH CLEANOUT PLUG WHEN REQUIRED AND DEEP SEAL TRAP OR TRAP PRIMER CONNECTION W/ ACCESS DOOR (IF REQUIRED)			
FCO	FLOOR CLEANOUT	ZURN, ZN1400-BZ1 DURA-COAT CAST IRON ADJUSTABLE CLEANOUT, NICKEL BRONZE TOP, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT			SEE FLOOR PLAN FOR SIZE
GCO	GROUND CLEANOUT	ZURN, Z1400-BZ1 DURA-COAT CAST IRON ADJUSTABLE CLEANOUT, CAST IRON TOP, PROTECTIVE STRAINER COVER TO PROTECT DURING CONCRETE POUR, POST POUR HEIGHT ADJUSTMENT AND LEVELING SHIMS TO CORRECT TILT			SEE FLOOR PLAN FOR SIZE

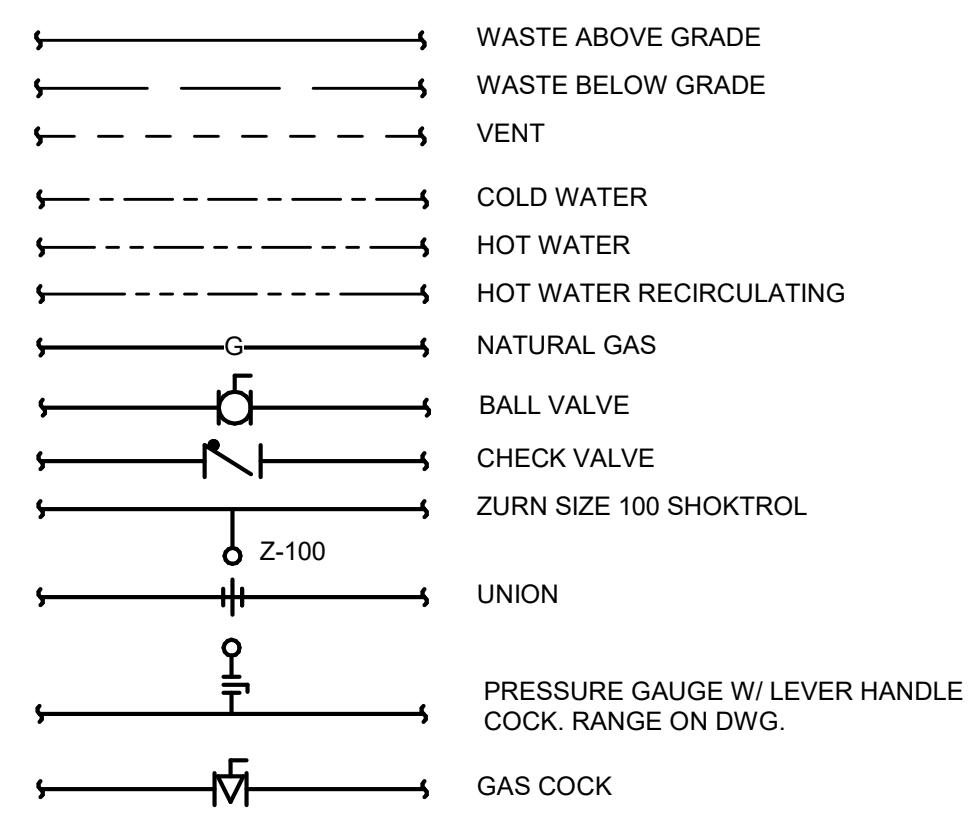
PLUMBING SPECIFICATIONS

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE PLUMBING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE PLUMBING DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF FIXTURES AND EQUIPMENT AND THE ROUTING OF PIPING IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE PLUMBING DRAWINGS.
- INSTALL ALL EQUIPMENT AND FIXTURES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- THE BUILDING IS ASSIGNED TO SEISMIC DESIGN CATEGORY C, RISK CATEGORY II, THEREFORE, THE PLUMBING COMPONENTS ARE EXEMPTED FROM SEISMIC REVIEW. VERIFY WITH THE ARCHITECT.
- INTERIOR SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC SOLID WALL-DWV ASSEMBLED WITH SOLVENT WELD JOINTS.
- THE TOP OF ANY BELOW SLAB PIPING SHALL BE NO LESS THAN 2" FROM THE BOTTOM OF THE SLAB.
- INSTALL CLEANOUTS IN ACCESSIBLE LOCATIONS AT BASE OF ALL SOIL AND WASTE STACKS AND ELSEWHERE AS INDICATED ON THE DRAWINGS.
- THIS CONTRACTOR IS TO ARRANGE WITH THE LOCAL UTILITY COMPANY FOR INSTALLATION OF THE GAS SERVICE, METER, REGULATOR, ETC. AND PAY ALL COSTS FOR PERMITS, FEES, INSTALLATION AND INSPECTIONS.
- INSTALLATION OF GAS PIPING SHALL COMPLY WITH THE LOCAL UTILITY CO., INTERNATIONAL GAS CODE, NFPA AND ALL OTHER AGENCIES HAVING JURISDICTION. ABOVE GROUND PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASSEMBLED WITH MALLEABLE IRON FITTINGS & GROUND JOINT UNIONS. GAS PIPING AT EACH APPLIANCE SHALL HAVE DIRT LEG & AND AGA GAS COCK. PAINT ALL GAS PIPING ON THE EXTERIOR AND INTERIOR OF THE BUILDING WITH TWO COATS OF CAUTION YELLOW PAINT.
- ABOVE GRADE DOMESTIC WATER PIPING SHALL BE HARD DRAWN COPPER, TYPE "L" PIPING ASSEMBLED WITH WROUGHT COPPER SOLDER FITTINGS. CONNECTIONS OF COPPER PIPE TO FERROUS PIPE SHALL BE MADE WITH DIELECTRIC UNIONS OR COUPLINGS.
- DOMESTIC WATER PIPING MAY BE CROSSLINKED POLYETHYLENE PE-XA AS MANUFACTURED BY REHAU. FITTINGS SHALL BE AS RECOMMENDED BY THE PE-X MANUFACTURER. PIPE SIZES ARE BASED UPON COPPER, INCREASE SIZES AS RECOMMENDED BY THE MANUFACTURER.
- ALL COLD WATER, HOT WATER AND HOT WATER RECIRCULATING LINES SHALL BE INSULATED WITH ARMAFLEX, OR EQUAL, WITH A FLAME SPREAD AND SMOKE DEVELOPED RATINGS NOT EXCEEDING 25 AND 50 RESPECTIVELY.

COLD WATER
1/2" TO 1 1/2" PIPE - 1/2" THICK INSULATION
1 1/2" TO 8" PIPE - 1" THICK INSULATION

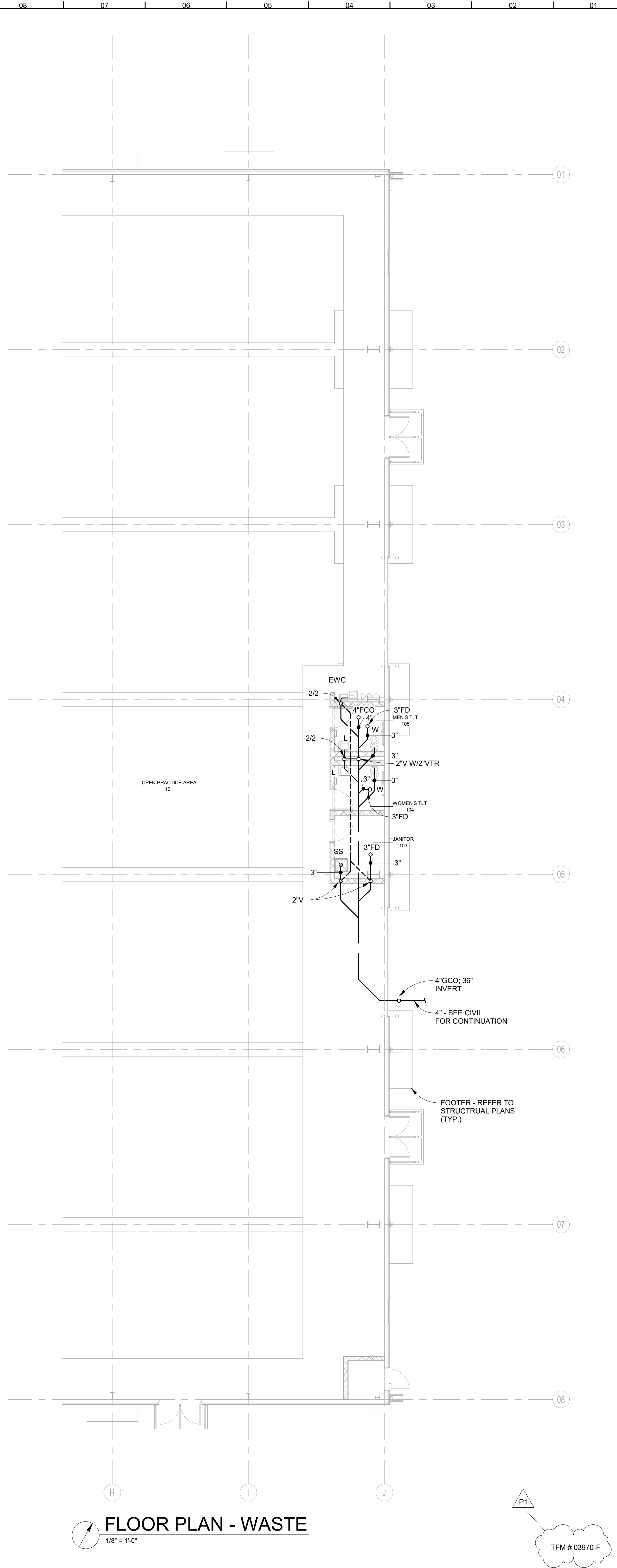
HOT WATER & HOT WATER RECIRCULATING
1/2" TO 1 1/2" PIPE - 1" THICK INSULATION
1" TO 8" PIPE - 1 1/2" THICK INSULATION
- ALL COLD WATER PIPING IN OUTSIDE WALLS OR WALLS ADJACENT TO AN UNHEATED SPACE SHALL BE INSULATED AS SPECIFIED WITH A MINIMUM OF 1" THICKNESS.
- THE TAILPIECE, TRAP & WATER SUPPLIES FOR ALL HANDICAPPED LAVATORIES SHALL BE INSULATED WITH MOLDED ANTIMICROBIAL INSULATION KIT EQUAL TO TRUEBRO, INC. HAND-LAY GUARD, VERIFY COLOR WITH THE ARCHITECT.
- WATER HAMMER ARRESTERS SHALL BE PROVIDED WHERE CALLED FOR ON THE DRAWINGS AND BE ZURN SERIES Z-1700 SHOKTROL, OR EQUAL WITH NESTING TYPE BELLOW. THE CASING AND BELLOW SHALL BE CONSTRUCTED OF TYPE 304 STAINLESS STEEL. SHOKTROL TO BE THE SIZE INDICATED ON THE DRAWINGS WITH THREADED CONNECTIONS - NOT SWEAT. WHERE POSSIBLE, SHOKTROLS SHALL BE LOCATED ABOVE LAY-IN CEILING. IF LOCATING THE SHOKTROL ABOVE A LAY-IN CEILING IS NOT POSSIBLE, AN ACCESS PANEL SHALL BE PROVIDED FOR ACCESS IN THE WALL.
- FIRE STOPPING SYSTEM SHALL BE PROVIDED AND INSTALLED THROUGH ALL FIRE RATED WALLS, CEILING, FLOORS, PARTITIONS OR CONSTRUCTION.
- FURNISH AND INSTALL ALL ROUGHING-IN CONNECTIONS FOR ALL EQUIPMENT FURNISHED BY OTHERS REQUIRING WATER, DRAINS, ETC. THE EQUIPMENT MANUFACTURER SHALL FURNISH TO THE CONTRACTOR, SHOP DRAWINGS SHOWING SIZE AND LOCATION OF SERVICE REQUIRED. ROUGHING-IN SHALL BE IN ACCORDANCE WITH THESE DRAWINGS.
- LAVATORY AND SINK STRAINERS AND TAILPIECES SHALL BE OFFSET MEETING ADA REQUIREMENTS WHERE REQUIRED TO ACCOMMODATE CASEWORK. REFER TO ARCHITECTURAL DRAWINGS FOR CASEWORK DETAILS.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- AFTER THE WATER SYSTEM HAS BEEN TESTED FOR LEAKS AND BEFORE THE SYSTEM HAS BEEN PLACED IN USE, INTRODUCE HTH SOLUTION, CHLORINE GAS, OR OTHER SIMILAR CHLORINATING AGENT IN SUFFICIENT QUANTITY TO PRODUCE A RESIDUAL OF 100 PPM THROUGHOUT THE ENTIRE SYSTEM AND ALLOW TO STAND THUS FILED FOR 24 HOURS. AFTER THE 24 HOURS PERIOD, FLUSH CLEAN WATER THROUGHOUT THE PIPING SYSTEM UNTIL ALL NOTICEABLE TRACE OF CHLORINE GAS HAS DISAPPEARED. VERIFY PROCEDURES AND TESTING REQUIREMENTS WITH THE PUBLIC HEALTH AGENCY HAVING JURISDICTION.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

PLUMBING LEGEND

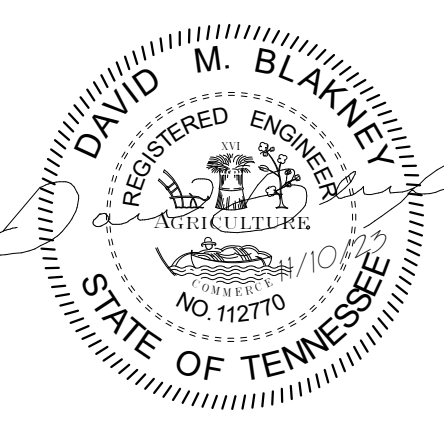


PLUMBING SYMBOLS

- V VENT
- VS VENT STACK
- VTR VENT THRU ROOF
- WS WASTE STACK
- CO CLEAN OUT
- FCO FLOOR CLEAN OUT
- WCO WALL CLEAN OUT
- WH WALL HYDRANT
- 2/3 2"VS/3"VS



DIA
Design Innovation
ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
ph 865.637.8540 | fx 865.544.3840
www.dia-arch.com



BCE
BEDINGER
CONSULTING
ENGINEERS
5641 MERCHANTS CENTER BLVD., STE. 104
KNOXVILLE, TENNESSEE 37912
T 865.637.6339 • F 865.523.6986
BCE1946.COM

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

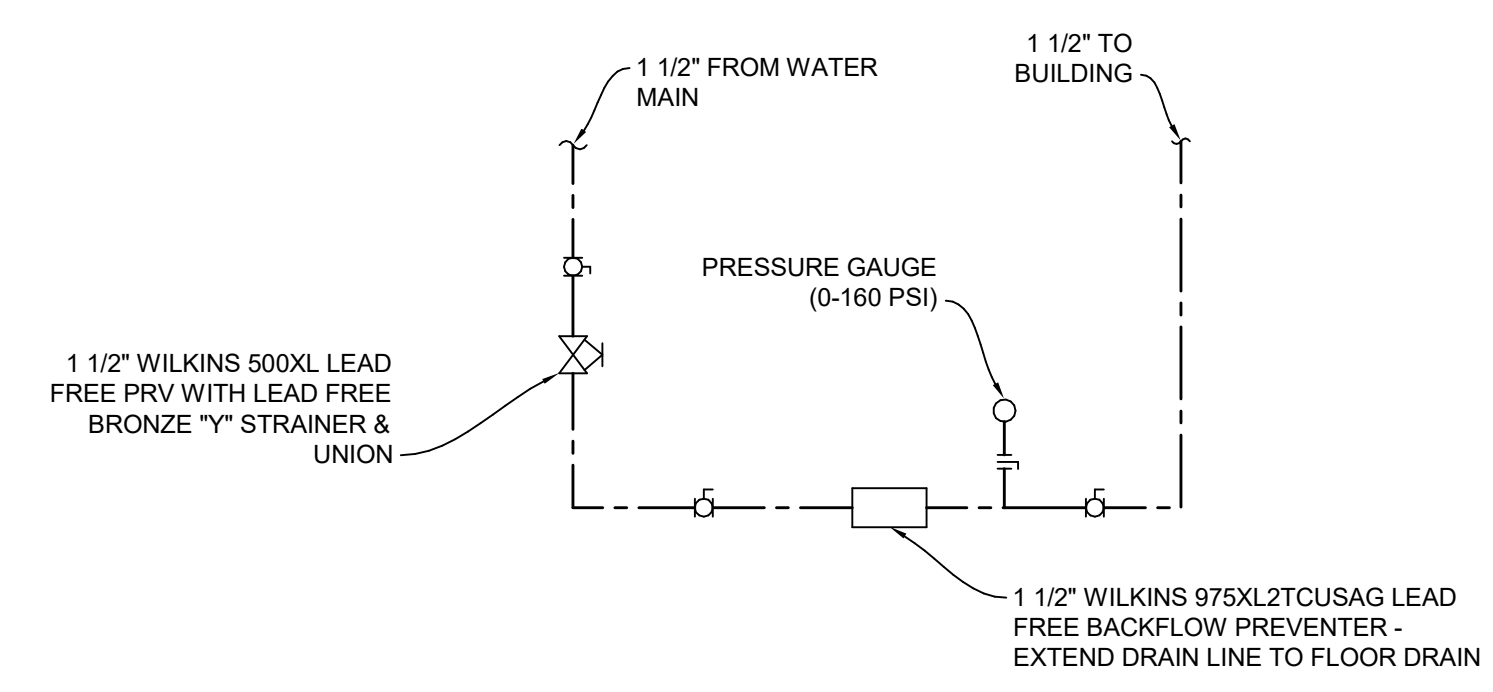
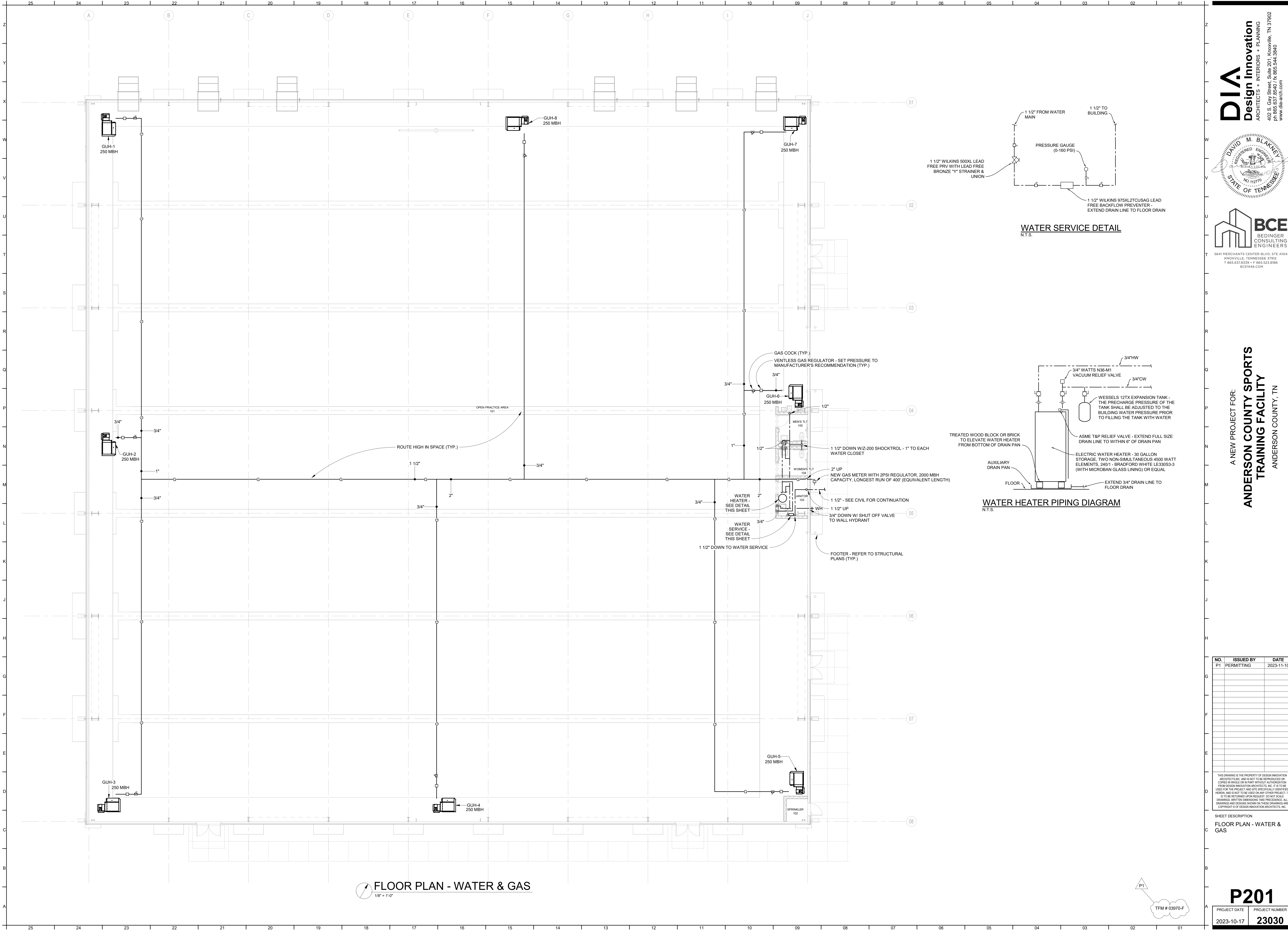
THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR FORGED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITE IN DIMENSIONS AND DIMENSIONS. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FLOOR PLAN - WASTE

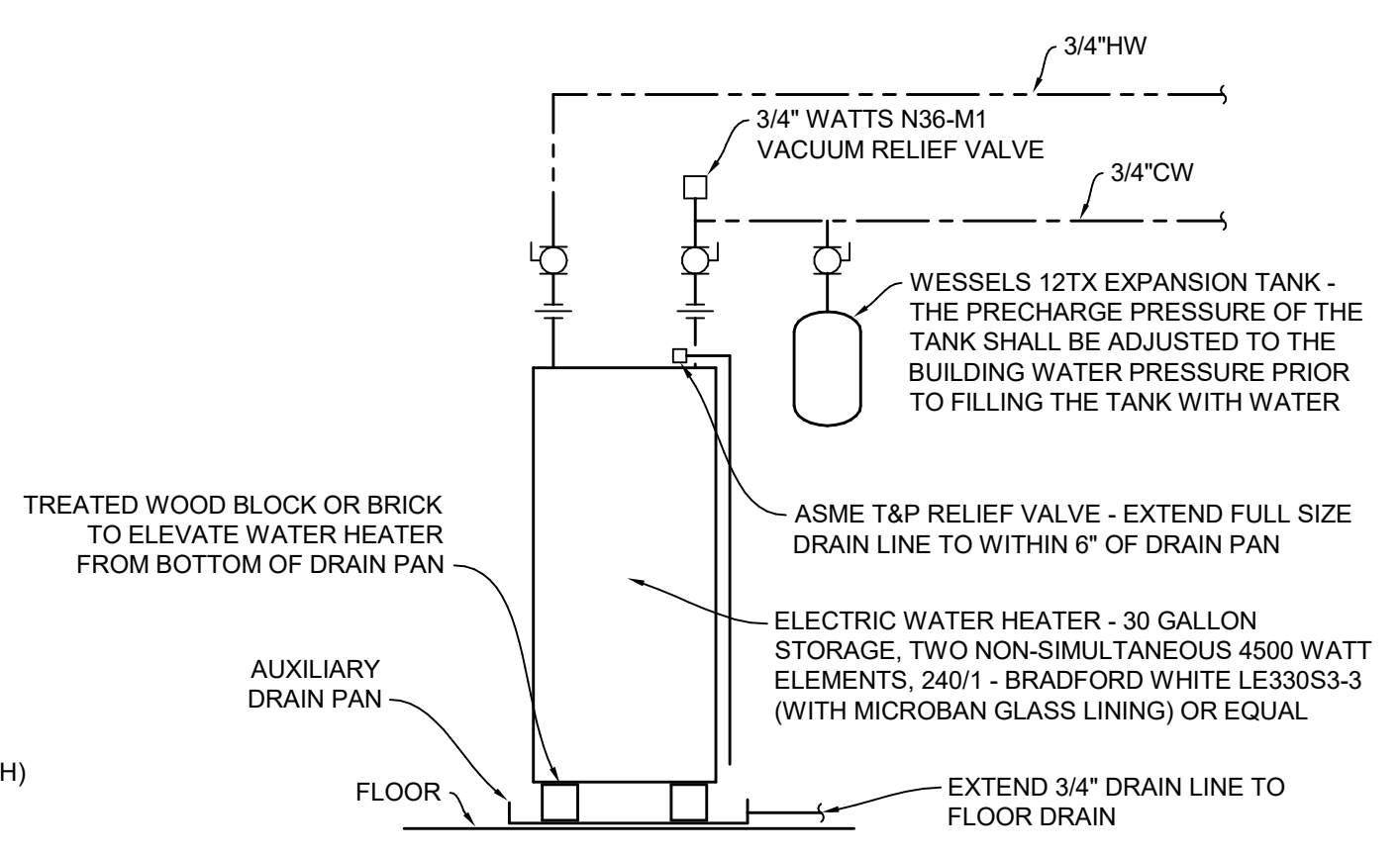
P101

PROJECT DATE	PROJECT NUMBER
2023-10-17	23030

11/9/2023 2:23:44 PM



WATER SERVICE DETAIL
N.T.S.



WATER HEATER PIPING DIAGRAM
N.T.S.

FLOOR PLAN - WATER & GAS
1/8" = 1'-0"

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITE IN DIMENSIONS AND PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FLOOR PLAN - WATER & GAS

P1
TFM # 03970-F

Z
Y
X
W
V
U
T
S
R
Q
P
N
M
L
K
J
H
G
F
E
D
C
B
A

HVAC SPECIFICATIONS

- FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL A COMPLETE HEATING AND COOLING SYSTEM AS INDICATED AND SPECIFIED ON THE DRAWINGS.
- WORK SHALL COMPLY WITH IMC, NFPA, ALL APPLICABLE LAWS, ORDINANCES & CODES OF THE STATE OF TENNESSEE, LOCAL AUTHORITIES HAVING JURISDICTION AND WITH APPLICABLE RULES & REGULATIONS.
- OBTAIN ALL PERMITS & INSPECTIONS REQUIRED FOR THE COMPLETION OF THE WORK & PAY ALL FEES & COSTS IN CONNECTION THEREWITH.
- THE MECHANICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC AND UNLESS SPECIFICALLY DIMENSIONED, THE LOCATIONS OF DUCTWORK AND EQUIPMENT AND THE ROUTING OF DUCTWORK IS APPROXIMATE ONLY AND SHALL NOT BE SCALED FROM THE MECHANICAL DRAWINGS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- SUBMIT TO THE ARCHITECT FOR APPROVAL, 10 DAYS AFTER RECEIPT OF NOTICE TO PROCEED WITH THE WORK, A COMPLETE LIST OF MATERIALS, EQUIPMENT AND ACCESSORIES PROPOSED FOR USE, INCLUDING COMPLETE DESCRIPTIONS AND SPECIFICATIONS OF ANY PROPOSED SUBSTITUTIONS, MANUFACTURER'S SHOP DRAWINGS, ROUGHING-IN DRAWINGS, AND ANY OTHER INFORMATION REQUIRED FOR THE PROPER INSTALLATION OF THE WORK. SUBMITTALS SHALL BE IN PDF FORMAT (NO PAPER COPIES).
- THE BUILDING IS ASSIGNED TO SEISMIC DESIGN CATEGORY C, RISK CATEGORY II WITH AN IMPORTANCE FACTOR OF 1.0. THEREFORE, THE MECHANICAL COMPONENTS ARE EXEMPTED FROM SEISMIC REVIEW. VERIFY WITH THE ARCHITECT.
- ALL DUCTWORK SHALL BE GALVANIZED STEEL FABRICATED ACCORDING TO SMACNA DETAILS. DUCTS SHALL BE SIZE INDICATED ON DRAWINGS (NET INSIDE DIMENSIONS), RIGIDLY BRACED, ADEQUATELY SUPPORTED & SECURELY FASTENED IN PLACE.
- OPERABLE VENTILATION AIR LOUVERS SHALL BE POTTORFF MODEL EXA-645 EXTRUDED ALUMINUM COMBINATION LOW LEAK CLASS 1A DRAINABLE LOUVER DAMPERS. THE LOUVER SHALL PASS 500 FPM FREE AREA VELOCITY WITH NOT MORE THAN .04 INCHES OF WATER GAUGE PRESSURE DROP AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR BOTH AIR PERFORMANCE AND WATER PENETRATION. DIAMOND MESH BIRD SCREEN SHALL BE INSTALLED ON THE INSIDE OF LOUVER. LOUVERS SHALL HAVE A KYNAR FINISH WITH COLOR AS SELECTED BY THE ARCHITECT.
- EXHAUST FANS SHALL BE GREENHECK, LOREN COOK, PENNBARRY OR APPROVED SUBSTITUTE, AND BE AS SCHEDULED ON THE DRAWINGS AND HAVE THE ACCESSORIES AS NOTED ON THE DRAWINGS. FAN MOTORS SHALL HAVE BUILT-IN THERMAL OVERLOAD PROTECTION. THE UNITS SHALL BE FURNISHED WITH UNIT MOUNTED SAFETY DISCONNECT. THE UNITS SHALL BE UL LISTED AND BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE. VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT.
- ANY CUTS OR PENETRATIONS THROUGH THE EXISTING ROOF SHALL BE REPAIRED AND MADE WATERTIGHT IN A MANNER TO MAINTAIN THE EXISTING ROOF WARRANTY.
- WHEN THE INSTALLATION IS COMPLETE, IT SHALL BE RUN & ADJUSTED BY THE CONTRACTOR. ANY EXCESSIVE NOISE OR VIBRATION SHALL BE CORRECTED.
- SUBMIT WRITTEN AIR BALANCE REPORT TO THE ARCHITECT A MINIMUM OF 10 DAYS PRIOR TO THE FINAL INSPECTION. THE AIR BALANCE CONTRACTOR SHALL BE AABC OR NEBB CERTIFIED.
- THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE OPERATION OF EQUIPMENT & PROVIDE THE OWNER WITH A COMPLETE SET OF OPERATING INSTRUCTIONS FOR EQUIPMENT INSTALLED UNDER HIS CONTRACT.
- THE WORK SHALL BE GUARANTEED AGAINST ALL DEFECTIVE MATERIALS & EQUIPMENT FOR A PERIOD OF ONE YEAR AFTER ACCEPTANCE. THE CONTRACTOR SHALL MAKE ALL NECESSARY CORRECTIONS WITHOUT COST TO THE OWNER.

EXHAUST FAN (EF) SCHEDULE

MARK	CFM	EXT. STATIC (INCHES W.G.)	HP (WATTS)	RPM	MAX SONES	WEIGHT (LBS)	VOLTS/ PHASE	TYPE	GREENHECK MODEL
1 2 3 4 5 6	21600	0.28	3	388	19.8	275	208/3	WALL	SBE-2L54
5 6 7	70	0.35	(16)	941	1.4	20	115/1	CEILING	AP-A110

NOTES:

- VERIFY VOLTAGE W/ ELECTRICAL DRAWINGS BEFORE ORDERING EQUIPMENT
- EF-1,2,3,4,5,6 SHALL BE FURNISHED WITH MOTOR STARTER, THERMOSTAT W/ OVERRIDE SWITCH, BACKDRAFT DAMPER, WALL HOUSING W/ MOTOR GUARD, & 45 DEG. WEATHERHOOD W/ BIRDSCREEN
- INTERNOCK EF-1,2,3,4,5,6 WITH CORRESPONDING INTAKE LOUVER - SEE FLOOR PLAN
- EF 5,6,7 SHALL BE FURNISHED WITH EC MOTER, SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP W/ BIRDSCREEN
- EF-5,6,7 SHALL BE ENERGIZED WITH THE LIGHTS IN THE ROOM IT SERVES

GAS-FIRED UNIT HEATER (GUH) SCHEDULE

MARK	INPUT (MBH)	OUTPUT (MBH)	FAN HP	CFM	FULL LOAD AMPS	MOCSP	VOLTS/ PHASE	MFGR & MODEL NO.	WEIGHT (LBS)
1 2 3 4 5 6 7 8	250.0	207.5	3/4	4270	12.7	30	115/1	REZNOR UB2 250	425

NOTES:

- VERIFY VOLTAGE WITH ELECTRICAL DRAWINGS BEFORE ORDERING EQUIPMENT
- PROVIDE HEATER WITH CONCENTRIC VENT BOX AND INSTALL AS PER MANUFACTURERS INSTRUCTIONS
- PROVIDE WALL MOUNTED THERMOSTAT
- HEATERS SHALL BE 2-STAGE

ELECTRIC WALL HEATER (EWH) SCHEDULE

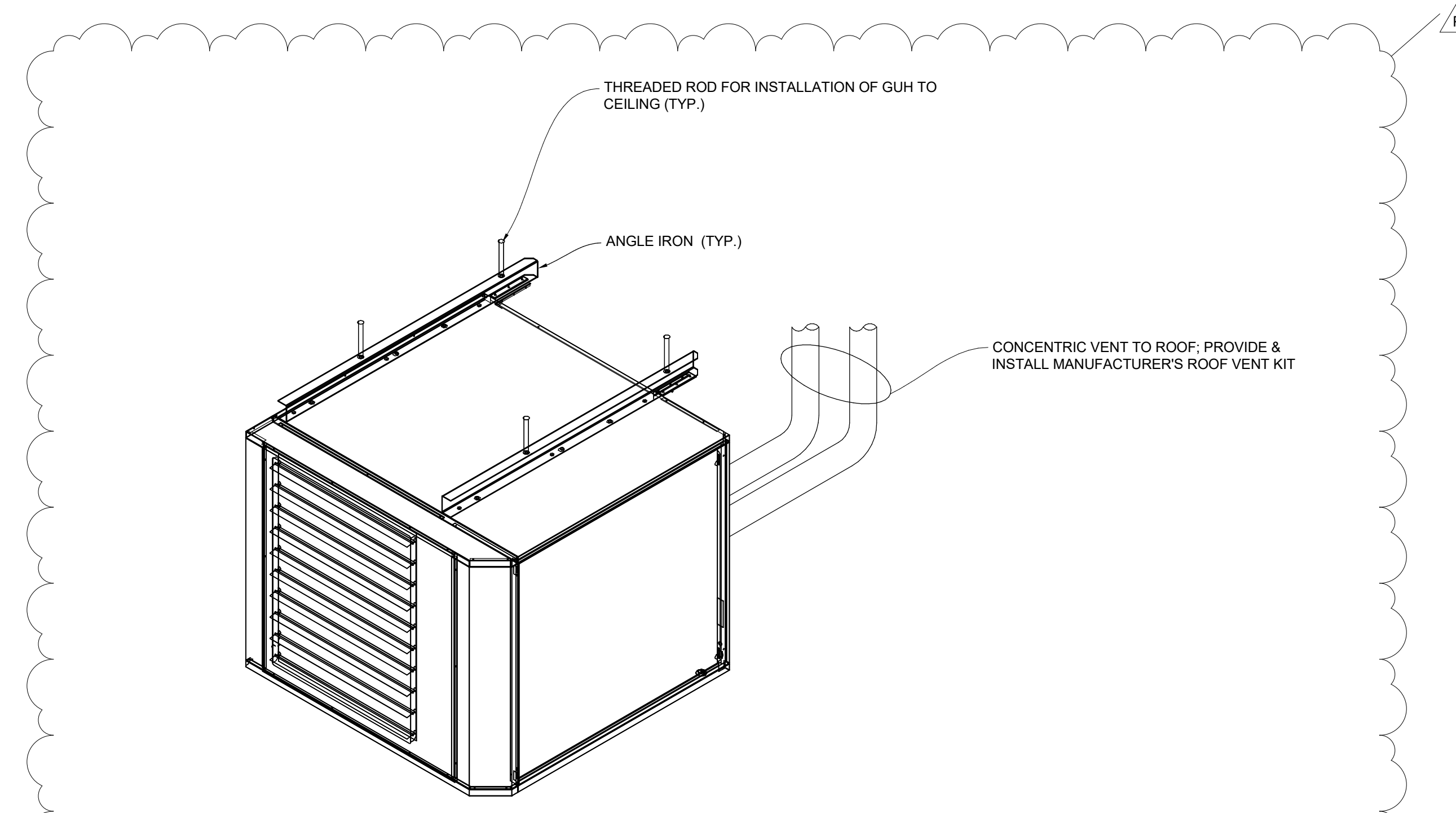
MARK	WATTS	VOLTS/ PHASE	MFR MODEL
1 2 3 4	1500	208-1	MARKEL SERIES 3320

NOTES:

- VERIFY VOLTAGE BEFORE ORDERING EQUIPMENT
- HEATER SHALL BE FURNISHED W/ DISCONNECT SWITCH & OVERHEAT PROTECTION
- HEATER SHALL BE FURNISHED WITH INTEGRAL THERMOSTAT

DUCT LEGEND

6"x8"	EXHAUST DUCT
-------	--------------



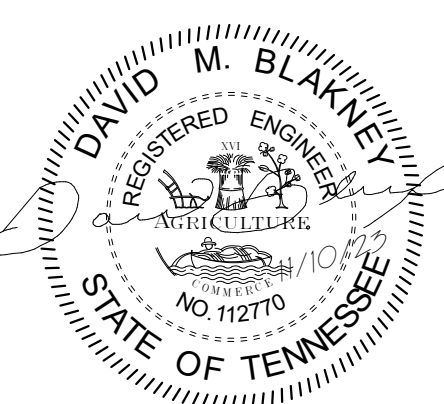
CEILING MOUNTED UNIT HEATER DETAIL

NOTES:

- VERIFY EXACT INSTALLATION AND CONCENTRIC VENT REQUIREMENTS WITH MANUFACTURER

P1

TFM # 03970-F



A NEW PROJECT FOR:
**ANDERSON COUNTY SPORTS
TRAINING FACILITY**
ANDERSON COUNTY, TN

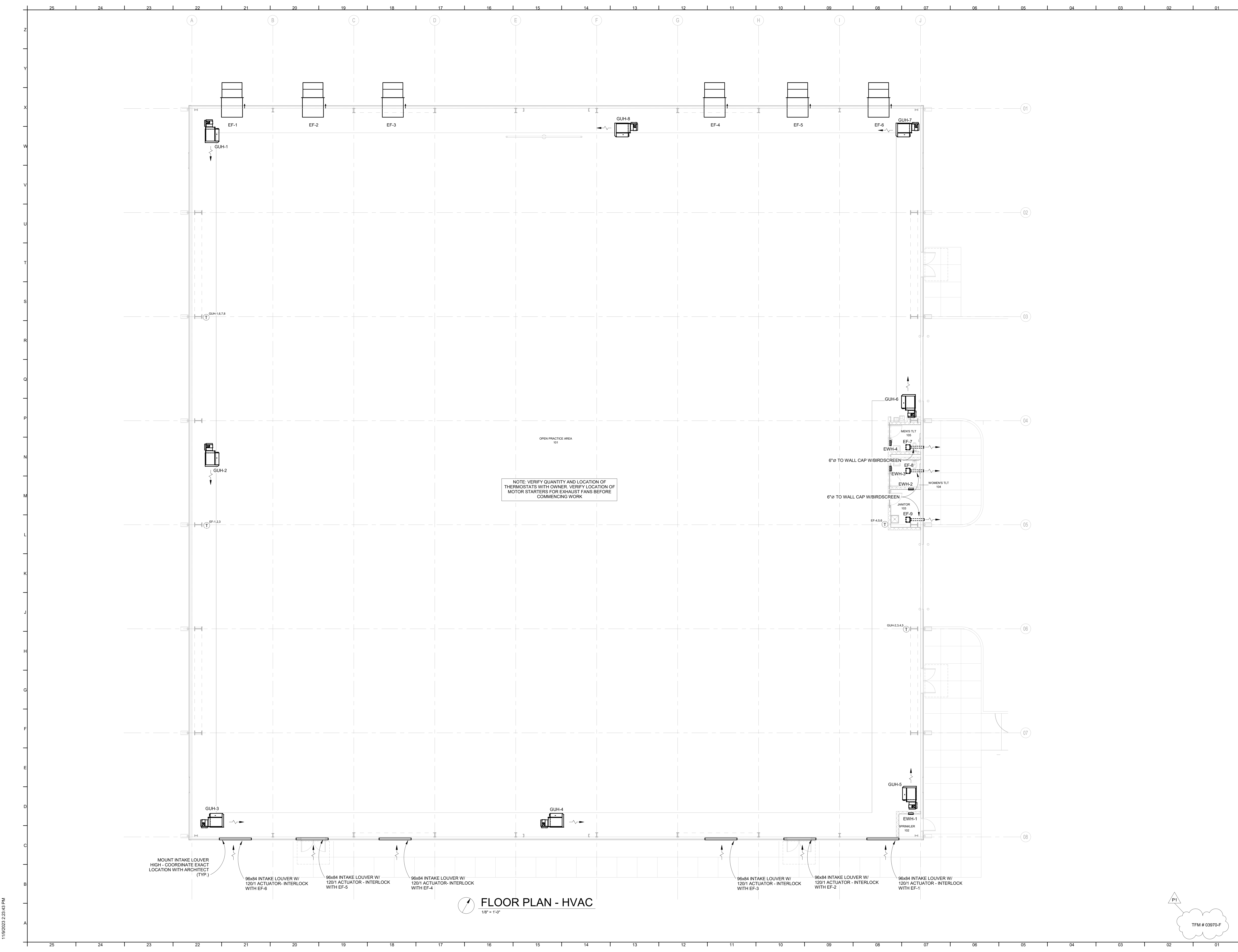
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

SHEET DESCRIPTION
SCHEDULES

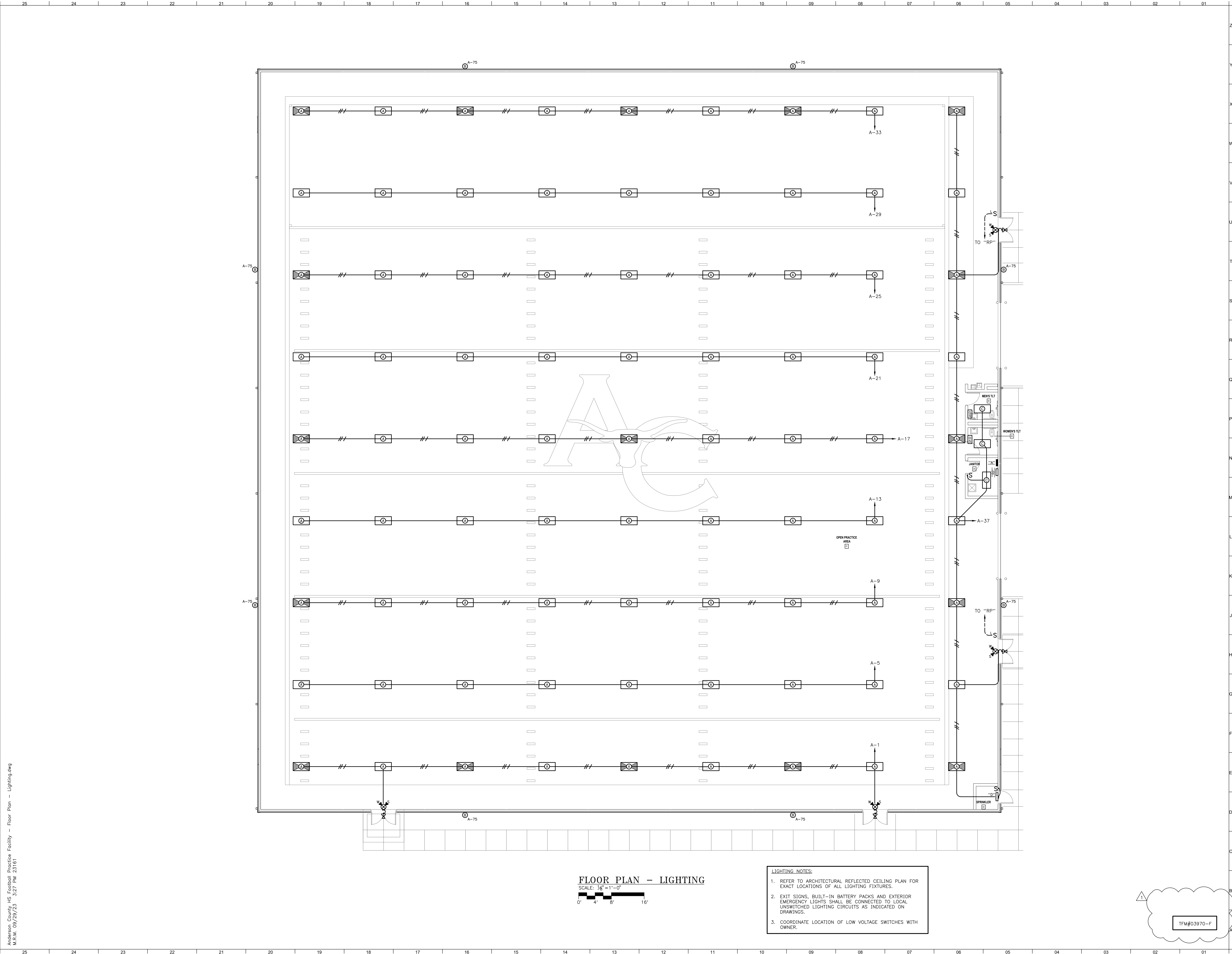
NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IF IT IS USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN, AND IS NOT TO BE USED ON ANY OTHER PROJECT. IT IS TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

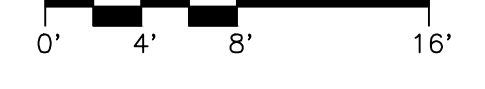
SHEET DESCRIPTION
FLOOR PLAN - HVAC



11/9/2023 2:23:43 PM



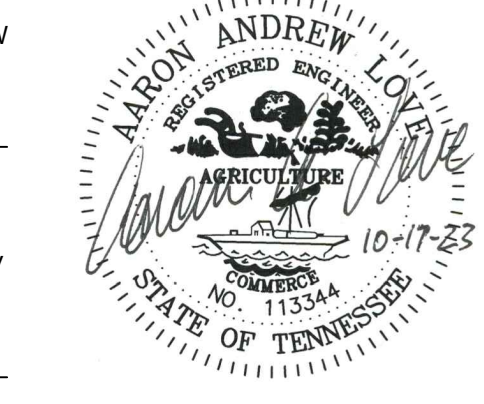
FLOOR PLAN - LIGHTING
 SCALE: $\frac{3}{8}'' = 1'-0''$



- LIGHTING NOTES:**
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL LIGHTING FIXTURES.
 - EXIT SIGNS, BUILT-IN BATTERY PACKS AND EXTERIOR EMERGENCY LIGHTS SHALL BE CONNECTED TO LOCAL UNSWITCHED LIGHTING CIRCUITS AS INDICATED ON DRAWINGS.
 - COORDINATE LOCATION OF LOW VOLTAGE SWITCHES WITH OWNER.

TFW#03970-F

Anderson County HS Football Practice Facility - Floor Plan - Lighting.dwg
 M.R.M. 09/29/23 3:27 PM 23161



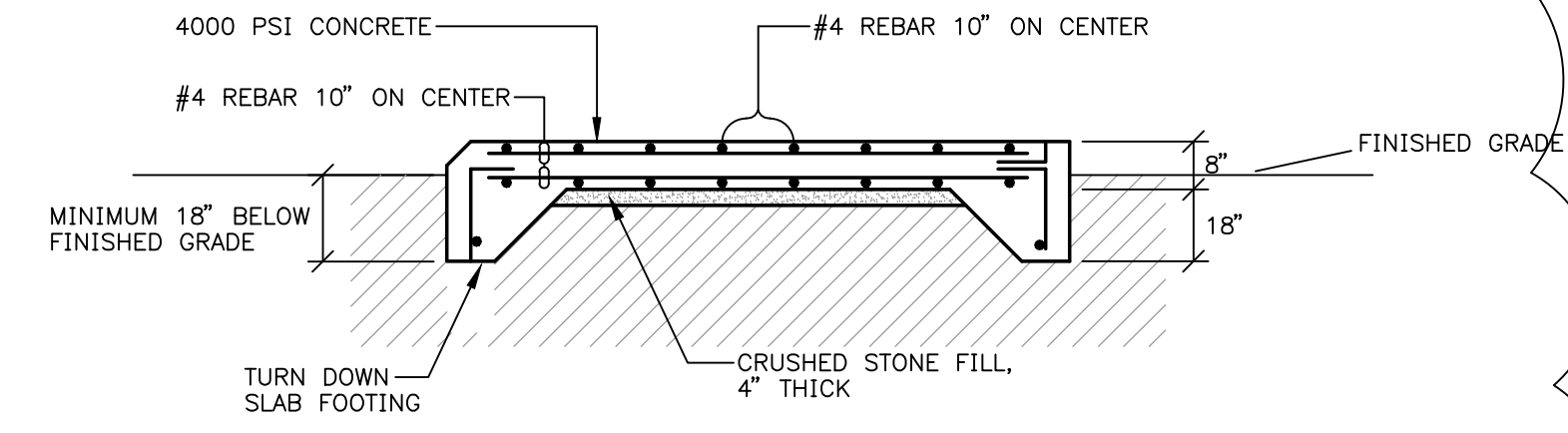
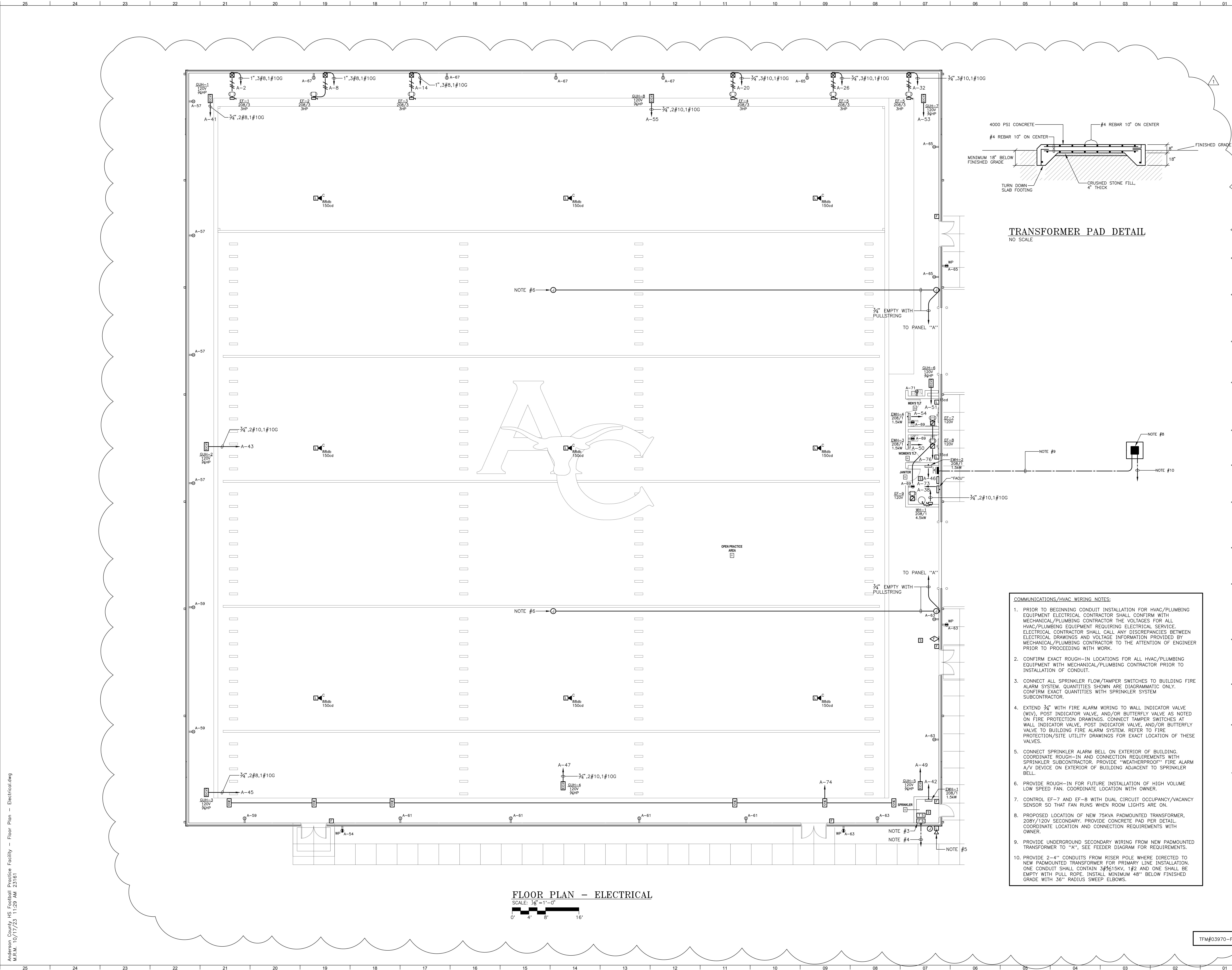
Vreeland Engineers, Inc.
 3107 Sutherland Ave.
 P.O. Box 10648
 Knoxville, TN 37939
 865-637-4451
 1-800-382-9799
 vreelandengineers.com

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
 ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. AND IS NOT TO BE USED ON ANY OTHER PROJECT. REVISES AND REVISIONS SHALL BE INDICATED BY CIRCLES AND TO BE RETURNED UPON REQUEST. DO NOT SCALE DRAWINGS. WRITE DIMENSIONS AND PRELIMINARY ALL DIMENSIONS AND DIMENSIONS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
 FLOOR PLAN - LIGHTING



TRANSFORMER PAD DETAIL
NO SCALE

NOTE #6

COMMUNICATIONS/HVAC WIRING NOTES:

- 1. PRIOR TO BEGINNING CONDUIT INSTALLATION FOR HVAC/PLUMBING EQUIPMENT ELECTRICAL CONTRACTOR SHALL CONFIRM WITH MECHANICAL/PLUMBING CONTRACTOR THE VOLTAGES FOR ALL HVAC/PLUMBING EQUIPMENT REQUIRING ELECTRICAL SERVICE. ELECTRICAL CONTRACTOR SHALL CALL ANY DISCREPANCIES BETWEEN ELECTRICAL DRAWINGS AND VOLTAGE INFORMATION PROVIDED BY MECHANICAL/PLUMBING CONTRACTOR TO THE ATTENTION OF ENGINEER PRIOR TO PROCEEDING WITH WORK.
- 2. CONFIRM EXACT ROUGH-IN LOCATIONS FOR ALL HVAC/PLUMBING EQUIPMENT WITH MECHANICAL/PLUMBING CONTRACTOR PRIOR TO INSTALLATION OF CONDUIT.
- 3. CONNECT ALL SPRINKLER FLOW/TAMPER SWITCHES TO BUILDING FIRE ALARM SYSTEM. QUANTITIES SHOWN ARE DIAGRAMMATIC ONLY. CONFIRM EXACT QUANTITIES WITH SPRINKLER SYSTEM SUBCONTRACTOR.
- 4. EXTEND 3/4" WITH FIRE ALARM WIRING TO WALL INDICATOR VALVE (WIV), POST INDICATOR VALVE, AND/OR BUTTERFLY VALVE AS NOTED ON FIRE PROTECTION DRAWINGS. CONNECT TAMPER SWITCHES AT WALL INDICATOR VALVE, POST INDICATOR VALVE, AND/OR BUTTERFLY VALVE TO BUILDING FIRE ALARM SYSTEM. REFER TO FIRE PROTECTION/SITE UTILITY DRAWINGS FOR EXACT LOCATION OF THESE VALVES.
- 5. CONNECT SPRINKLER ALARM BELL ON EXTERIOR OF BUILDING. COORDINATE ROUGH-IN AND CONNECTION REQUIREMENTS WITH SPRINKLER SUBCONTRACTOR. PROVIDE "WEATHERPROOF" FIRE ALARM A/V DEVICE ON EXTERIOR OF BUILDING ADJACENT TO SPRINKLER BELL.
- 6. PROVIDE ROUGH-IN FOR FUTURE INSTALLATION OF HIGH VOLUME LOW SPEED FAN. COORDINATE LOCATION WITH OWNER.
- 7. CONTROL EF-7 AND EF-8 WITH DUAL CIRCUIT OCCUPANCY/VACANCY SENSOR SO THAT FAN RUNS WHEN ROOM LIGHTS ARE ON.
- 8. PROPOSED LOCATION OF NEW 75KVA PADMOUNTED TRANSFORMER, 208Y/120V SECONDARY. PROVIDE CONCRETE PAD PER DETAIL. COORDINATE LOCATION AND CONNECTION REQUIREMENTS WITH OWNER.
- 9. PROVIDE UNDERGROUND SECONDARY WIRING FROM NEW PADMOUNTED TRANSFORMER TO "A". SEE FEEDER DIAGRAM FOR REQUIREMENTS.
- 10. PROVIDE 2-4" CONDUITS FROM RISER POLE WHERE DIRECTED TO NEW PADMOUNTED TRANSFORMER FOR PRIMARY LINE INSTALLATION. ONE CONDUIT SHALL CONTAIN 3#5615KV, 1#2 AND ONE SHALL BE EMPTY WITH PULL ROPE. INSTALL MINIMUM 48" BELOW FINISHED GRADE WITH 36" RADIUS SWEEP ELBOWS.

FLOOR PLAN - ELECTRICAL

SCALE: 3/8" = 1'-0"
0' 4' 8' 16'



A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

NO.	ISSUED BY	DATE
P1	PERMITTING	2023-11-10

THIS DRAWING IS THE PROPERTY OF DESIGN INNOVATION ARCHITECTS, INC. AND IS NOT TO BE REPRODUCED OR COPIED IN WHOLE OR IN PART WITHOUT AUTHORIZATION FROM DESIGN INNOVATION ARCHITECTS, INC. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. AND IS NOT TO BE USED ON ANY OTHER PROJECTS WITHOUT THE WRITTEN PERMISSION OF DESIGN INNOVATION ARCHITECTS, INC. ALL DRAWINGS AND DESIGNS SHOWN ON THESE DRAWINGS ARE COPYRIGHT © OF DESIGN INNOVATION ARCHITECTS, INC.

SHEET DESCRIPTION
FLOOR PLAN - ELECTRICAL

E102

PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

TFW#03970-F

ELECTRICAL SPECIFICATIONS

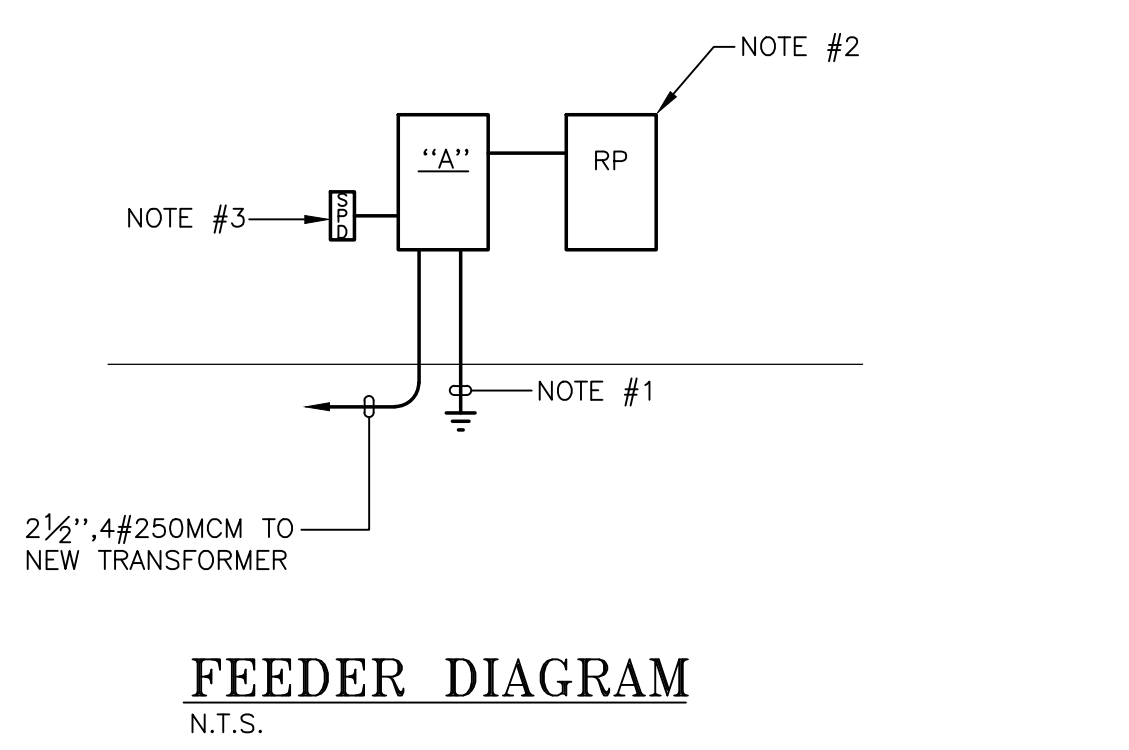
- 1. SCOPE: FURNISH PLANT, LABOR, MATERIAL, SERVICES, AND EQUIPMENT NECESSARY FOR AND REASONABLY INCIDENTAL TO THE INSTALLATION OF ELECTRICAL FACILITIES SHOWN ON THE DRAWINGS AND CALLED FOR HEREINAFTER.
2. CODES AND PERMITS: SECURE NECESSARY PERMITS, PAY NECESSARY FEES, CONFORM TO ALL APPLICABLE LOCAL, STATE, AND NATIONAL CODES.
3. POWER SERVICE: POWER SERVICE SHALL BE TAKEN UNDERGROUND AT 120/208-VOLTS, 3-PHASE, 4-WIRE, WYE FROM UTILITY COMPANY POLE MOUNTED TRANSFORMER AS INDICATED ON DRAWINGS AND AS SET FORTH HEREINAFTER.
4. WIRING METHODS: UNDERGROUND POWER AND COMMUNICATION WIRING SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT, WITH RIGID STEEL ELBOWS UTILIZED WHERE CONDUITS TURN UP THROUGH FLOOR SLAB.
5. PANELBOARDS: FURNISH AND INSTALL NEW PANELBOARDS WHERE INDICATED ON DRAWINGS. NEW PANELBOARDS SHALL BE EQUAL TO SQUARE D COMPANY "NO" SERIES WITH COPPER BUSING, BOLT-ON TYPE CIRCUIT BREAKERS, AND MAINS/AIC RATING AS ILLUSTRATED ON DRAWINGS.
6. SAFETY SWITCHES: FURNISH AND INSTALL HEAVY-DUTY FUSIBLE SAFETY SWITCHES WHERE INDICATED ON DRAWINGS. SAFETY SWITCHES SHALL BE HORSEPOWER-RATED, QUICK-MAKE, QUICK-BREAK, WITH ARC SHIELDS WITH ENCLOSED CONSTRUCTION.
7. LIGHTING FIXTURES: FURNISH AND INSTALL LIGHTING FIXTURES WHERE NOTED ON DRAWINGS. REFER TO LIGHTING FIXTURE SCHEDULE AND FLOOR PLANS FOR REQUIREMENTS.
8. WIRING DEVICES: FURNISH AND INSTALL WIRING DEVICES (WALL SWITCHES, DUPLEX PLUG RECEPTACLES, ETC.) WHERE INDICATED ON DRAWINGS.
9. PADMOUNTED TRANSFORMER: TRANSFORMER SHALL BE 3-PHASE, OIL-IMMERSED, SELF-COOLED, 60HERTZ, AND 65 DEGREE RISE.
10. 15KV CONDUCTORS: PRIMARY CABLE SHALL BE SHIELDED 15KV 133% SINGLE CONDUCTOR, COPPER, INSULATED WITH ETHYLENE-PROPYLENE RUBBER INSULATION, WITH A POLYVINYLCHLORIDE JACKET OVERALL.
11. FIRE ALARM SYSTEM: FURNISH AND INSTALL A COMPLETE ADDRESSABLE FIRE ALARM SYSTEM FOR THE BUILDING.
A. NEW CONTROL UNIT SHALL BE ADDRESSABLE WITH BATTERY SUPPLY, INCLUDING CHARGER. USE FIRE-LITE ES-200X.
B. REMOTE ANNUNCIATOR SHALL BE LCD, 80-CHARACTER, FIRE-LITE MODEL NO. ANN-80.
C. MANUAL STATIONS SHALL BE ADDRESSABLE FIRE-LITE BG-12 SERIES.
D. CEILING-MOUNTED SMOKE DETECTORS SHALL BE ADDRESSABLE, INTELLIGENT, PHOTOELECTRIC TYPE, FIRE-LITE MODEL SD365.
E. HEAT DETECTORS SHALL BE COMBINATION RATE-OF-RISE, FIXED TEMPERATURE TYPE.
F. BASES FOR INTELLIGENT DETECTOR SHALL BE FIRE-LITE MODEL NO. B200S.
G. DUCT DETECTORS SHALL BE PHOTOELECTRIC, ADDRESSABLE, INTELLIGENT TYPE, FIRE-LITE MODEL NO. D355FL.
H. PROVIDE FLASHING STROBE LIGHTS AS INDICATED ON DRAWINGS. STROBE LIGHTS SHALL BE FIRE-LITE L-SERIES. CANDELA RATING AS NOTED ON DRAWINGS.
I. CEILING-MOUNTED COMBINATION AUDIO/VISUAL DEVICES SHALL BE PROVIDED WHERE SHOWN. UNITS SHALL BE FIRE LITE L-SERIES WITH CANDELA RATING AS NOTED ON DRAWINGS.
J. MONITORING MODULE UNIT SHALL BE FIRE-LITE MODEL NO. MMF-300.
INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. COLOR CODE ALL CONDUCTORS. ALL CONDUCTORS SHALL BE INSTALLED IN METALLIC RACEWAY SYSTEM, MINIMUM SIZE 1/2" PLENUM-RATED "OPEN" CABLING SHALL BE PERMISSIBLE ABOVE ACCESSIBLE LAY-IN CEILINGS PROVIDED THAT NEC REQUIRED SUPPORTING MEANS FOR ALL CABLING IS PROVIDED. AT COMPLETION OF WORK, PROVIDE COMPLETE TESTING OF SYSTEM. INCLUDE SUCCESSFUL TEST REPORTS AS PART OF PROJECT CLOSE-OUT DOCUMENTS.
12. SUBMITTALS: PROVIDE MATERIAL FOR REVIEW BY ARCHITECT AND ENGINEER. SUBMITTALS SHALL INCLUDE MANUFACTURER'S CUT SHEETS WITH SPECIFIC MODEL NUMBERS IDENTIFIED AS THEY APPLY TO THIS PROJECT. SUBMITTALS SHALL INCLUDE LIGHTING FIXTURES, EMERGENCY LIGHTING, EXIT SIGNS, WIRING DEVICES, AND SWITCHGEAR.
12. GUARANTY: GUARANTEE ALL WORK TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL ACCEPTANCE OF JOB.

LIGHTING FIXTURE SCHEDULE

Table with columns: DESIGNATION, ILLUMINATION (WATTS, DELIVERED LUMENS, COLOR TEMPERATURE, MINIMUM CRI), MOUNTING (CEILING, WALL), DESCRIPTION (SHIELDING, TYPE MATERIALS, FINISH, MOUNTING), MANUFACTURER'S PRODUCT ITEM (COMPANY, CATALOG NO.), # EQUAL PRODUCT PERMITTED (YES, NO), and REMARKS.

* UNLESS NOTED, EQUAL PRODUCT TO THAT SPECIFIED WILL BE ACCEPTED. THE DESIGN PROFESSIONAL SHALL HAVE SOLE JUDGEMENT CONCERNING EQUIVALENCE OF SUBSTITUTION.

Table with columns: PNL, MAINS, SHORT CKT CAPACITY, VOLTAGE/PHASE, MOUNTING, SURFACE, ENTRY, TOP BUS, COPPER. Includes a detailed table of circuit loads, breakers, and trip settings.

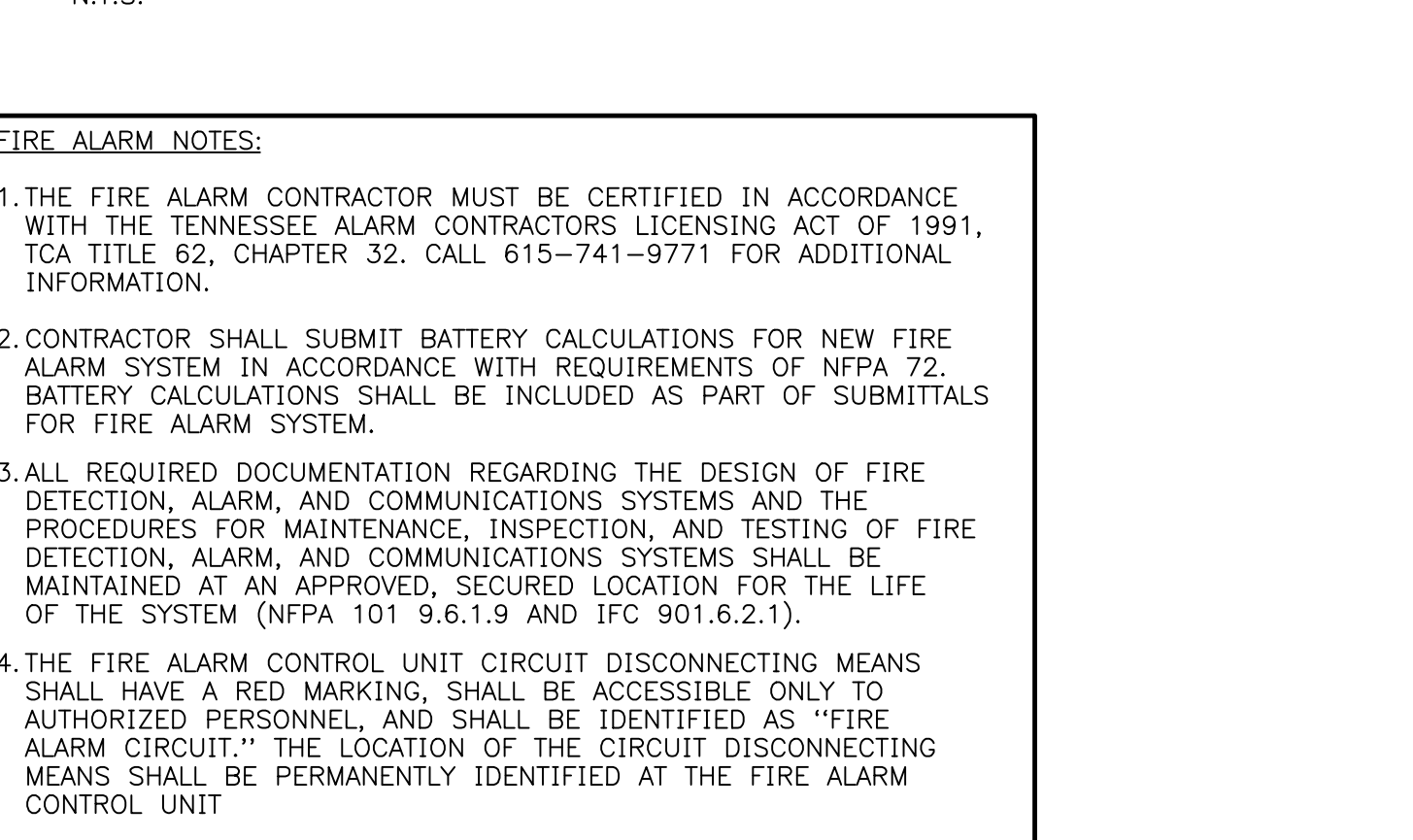


- FEEDER NOTES:
1. PROVIDE SERVICE GROUNDING, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. PROVIDE LIGHTING RELAY PANEL, HUBBELL CX-162516TMM. PANEL SHALL CONTAIN 16 RELAYS AND SOLID STATE PROGRAMMABLE 365-DAY ASTRONOMICAL TIMELOCK.
3. PROVIDE SURGE PROTECTIVE DEVICE(SPD), INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS.

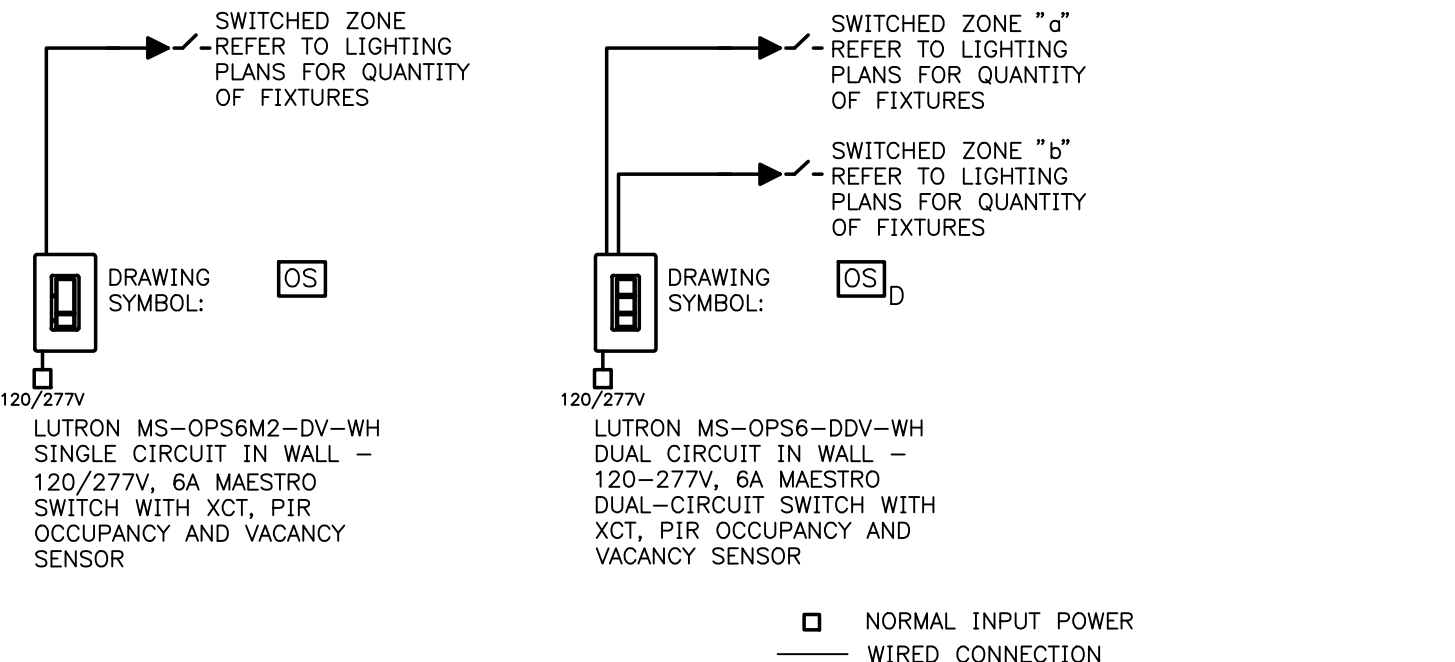
LEGEND

- SYMBOL DESCRIPTION
LED LIGHTING FIXTURE: "A" REFERS TO DESIGNATION IN THE LIGHTING FIXTURE SCHEDULE. "B" REFERS TO SWITCH CONTROL AND "C" REFERS TO CIRCUIT NUMBER.
LED LIGHTING FIXTURE WITH BUILT-IN EMERGENCY BATTERY PACK TO PROVIDE LIGHTING UPON LOSS OF NORMAL POWER.
WALL-MOUNTED TWIN-HEAD EMERGENCY LIGHTING FIXTURE, CONNECT TO UNSWITCHED LIGHTING CIRCUIT, MOUNT 7'-6" AFF EXCEPT NOT LESS THAN 6" BELOW CEILING.
WALL SWITCH: SINGLE POLE UNLESS NOTED 3- OR 4-WAY. "1P" INDICATES EQUIPPED WITH PILOT LIGHT TO INDICATE WHEN SWITCH IS ON.
EXIT SIGN WITH BUILT-IN TWIN HEAD EMERGENCY LIGHT.
WALL MOUNTED EXTERIOR LED EMERGENCY LIGHTING UNIT FULL CUTOFF "DARK SKY" COMPLIANT TYPE.
OCCUPANCY/VACANCY SENSOR FOR LIGHTING CONTROL.
DUPLEX PLUG RECEPTACLE.
SPRINKLER SYSTEM TAMPER SWITCH.
FIRE ALARM MANUAL PULL STATION.
WALL MOUNTED FIRE ALARM CENTRAL CONTROL UNIT.
WALL MOUNTED FIRE ALARM COMBINATION HORN/STROBE UNIT.
PANELBOARD, RECESSED OR SURFACE MOUNTED AS INDICATED ON DRAWINGS.
ELECTRIC MOTOR REQUIRING CONNECTION, SIZE, USE, AND LOCATION AS INDICATED ON PLANS.
MANUAL MOTOR STARTER TO CONTROL MOTOR INDICATED.
MAGNETIC MOTOR STARTER FOR EQUIPMENT INDICATED.
FUSED DISCONNECT SWITCH.
CONDUIT AND CONDUCTORS EXTENDED TO PANELBOARD.
GAS UNIT HEATER.
WALL MOUNTED FIRE ALARM COMBINATION SPEAKER/STROBE UNIT.
FIRE ALARM COMBINATION SPEAKER/STROBE UNIT.
WALL MOUNTED FIRE ALARM REMOTE ANNUNCIATOR PANEL.

FIRE ALARM RISER DIAGRAM



- FIRE ALARM NOTES:
1. THE FIRE ALARM CONTRACTOR MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT OF 1991, TCA TITLE 62, CHAPTER 32.
2. CONTRACTOR SHALL SUBMIT BATTERY CALCULATIONS FOR NEW FIRE ALARM SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF NFPA 72.
3. ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION, AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.
4. THE FIRE ALARM CONTROL UNIT CIRCUIT DISCONNECTING MEANS SHALL HAVE A RED MARKING, SHALL BE ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL, AND SHALL BE IDENTIFIED AS "FIRE ALARM CIRCUIT".
5. TWO OR MORE VISIBLE NOTIFICATION APPLIANCES IN THE SAME ROOM OR ADJACENT SPACE WITHIN THE FIELD OF VIEW MUST FLASH IN SYNCHRONIZATION.
6. PROVIDE VOICE EVACUATION FIRE ALARM SYSTEM IN ACCORDANCE WITH PROJECT MANUAL REQUIREMENTS.
7. DIGITAL ALARM COMMUNICATION SYSTEMS WHERE APPLICABLE SHALL BE INSTALLED AS PER THE FOLLOWING:
A. DIGITAL ALARM COMMUNICATOR TRANSMITTER (DACT) SHALL BE CONNECTED TO THE UL S789 LISTED EXTERNAL REMOTE SINGLE OR DUAL PATH COMMERCIAL FIRE COMMUNICATOR IN ACCORDANCE WITH NFPA 70 AND NFPA 72 REQUIREMENTS.
1. SYSTEM SHALL BE CONFIGURED TO PROVIDE SELECTABLE REPORTING PATHS PER NFPA 72, CHAPTER 26.
2. SYSTEM SHALL CONTAIN A DIALER CAPTURE MODULE WHICH AUTOMATICALLY DETECTS A FIRE ALARM SYSTEM EVENT AT THE FACP AND PROVIDES A DIAL TONE TO ALLOW FACP MESSAGE TRANSMISSION TO THE CENTRAL STATION VIA THE GLOBAL SYSTEM FOR MOBILE (GSM) DIGITAL CELLULAR NETWORK IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA.



DIA Design Innovation ARCHITECTS + INTERIORS + PLANNING
402 S. Gay Street, Suite 201, Knoxville, TN 37902
PH 865.637.8540 / FX 865.544.3840
www.dia-arch.com

Vreeland Engineers, Inc.
3107 Sutherland Ave.
P.O. Box 10648
Knoxville, TN 37939
865-637-4401
1-800-365-9789
vreelandengineers.com

A NEW PROJECT FOR:
ANDERSON COUNTY SPORTS TRAINING FACILITY
ANDERSON COUNTY, TN

Table with columns: NO., ISSUED BY, DATE. Includes a revision table with columns: NO., PERMITTING, DATE (2023-11-10).

SHEET DESCRIPTION: LEGENDS AND SCHEDULES
E201
PROJECT DATE: 2023-10-17
PROJECT NUMBER: 23030

NOTES

- SURVEYOR'S LIABILITY FOR THE DOCUMENT SHALL BE LIMITED TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO ANY UNNAMED PERSON OR ENTITIES WITHOUT AN EXPRESSED RE-CERTIFICATION BY WHOSE SIGNATURE APPEARS UPON THE SURVEY.
- PARCELS NUMBERS SHOWN AS THUS (00) REFER TO TAX MAP 43, ANDERSON COUNTY, TENNESSEE.
- ALL DISTANCES WERE MEASURED WITH E.D.M. EQUIPMENT AND HAVE BEEN ADJUSTED FOR TEMPERATURE.
- FOR BOUNDARY AND TOPOGRAPHIC ASPECTS OF THIS SURVEY, RTK GNSS POSITIONAL DATA WAS OBSERVED ON/BETWEEN AUGUST 24, 2023 UTILIZING TRIMBLE R12 & R12i DUAL FREQUENCY RECEIVERS. THE GRID COORDINATES OF THE FIXED STATION(S) WERE DERIVED USING A VRS NETWORK OF CORS STATIONS REFERENCED TO NAD83(2011), GEOID 12B.
- THE PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOOD PLAIN AND IS DETERMINED TO BE IN ZONE "X" AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM PANEL NUMBER 47001C0136G, DATED 05/04/2009.
- THIS SURVEYOR WAS NOT PROVIDED WITH A TITLE COMMITMENT, THEREFORE THE PROPERTY IS SUBJECT TO THE FINDINGS OF A DETAILED TITLE SEARCH.
- PRIOR TO ANY CONSTRUCTION, EXCAVATION OR ANY DISTURBANCE OF THE EXISTING GROUND ELEVATION, THE OWNER AND / OR CONTRACTOR SHOULD ASSUME RESPONSIBILITY OF CONTACTING THE LOCAL UTILITY AUTHORITIES FOR EXACT LOCATION OF UNDERGROUND GAS LINES, TELEPHONE LINES, ELECTRIC CABLES, WATER LINES, ETC. TO AVOID ANY HAZARD OR CONFLICT. IN TENNESSEE, IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN THREE (3) NOR MORE THAN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR EXCAVATION TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. DIAL 811 FOR A ONE CALL CENTER.
- UTILITIES SHOWN WERE TAKEN FROM FIELD LOCATIONS THAT WERE APPARENT AND COPIED FROM APPROPRIATE GOVERNING AGENCIES MAPS AND ARE APPROXIMATE AT BEST. THERE MAY BE UTILITIES, THE EXISTENCE OF WHICH IS UNKNOWN TO THE SURVEYOR.
- TOPOGRAPHIC INFORMATION WAS DERIVED BY RANDOM SHOTS PER FIELD SURVEY; CONTOUR INTERVAL IS TWO (2) FOOT. DATUM BASED ON NAVD 88.
- ALL DEED & PLAT REFERENCES ARE MADE TO THE REGISTER'S OFFICE OF ANDERSON COUNTY, TENNESSEE (ROAC).
- SURVEY FIELD DATA COLLECTED ON AUGUST 24, 2023.
- SUBJECT PROPERTY IS CURRENTLY ZONED "A-2"; RURAL RESIDENTIAL DISTRICT. FOR ACCURATE INFORMATION CONCERNING ZONING REQUIREMENTS & RESTRICTIONS CONTACT ANDERSON COUNTY PLANNING COMMISSION AND BOARD OF ZONING APPEALS: 865-457-6244.

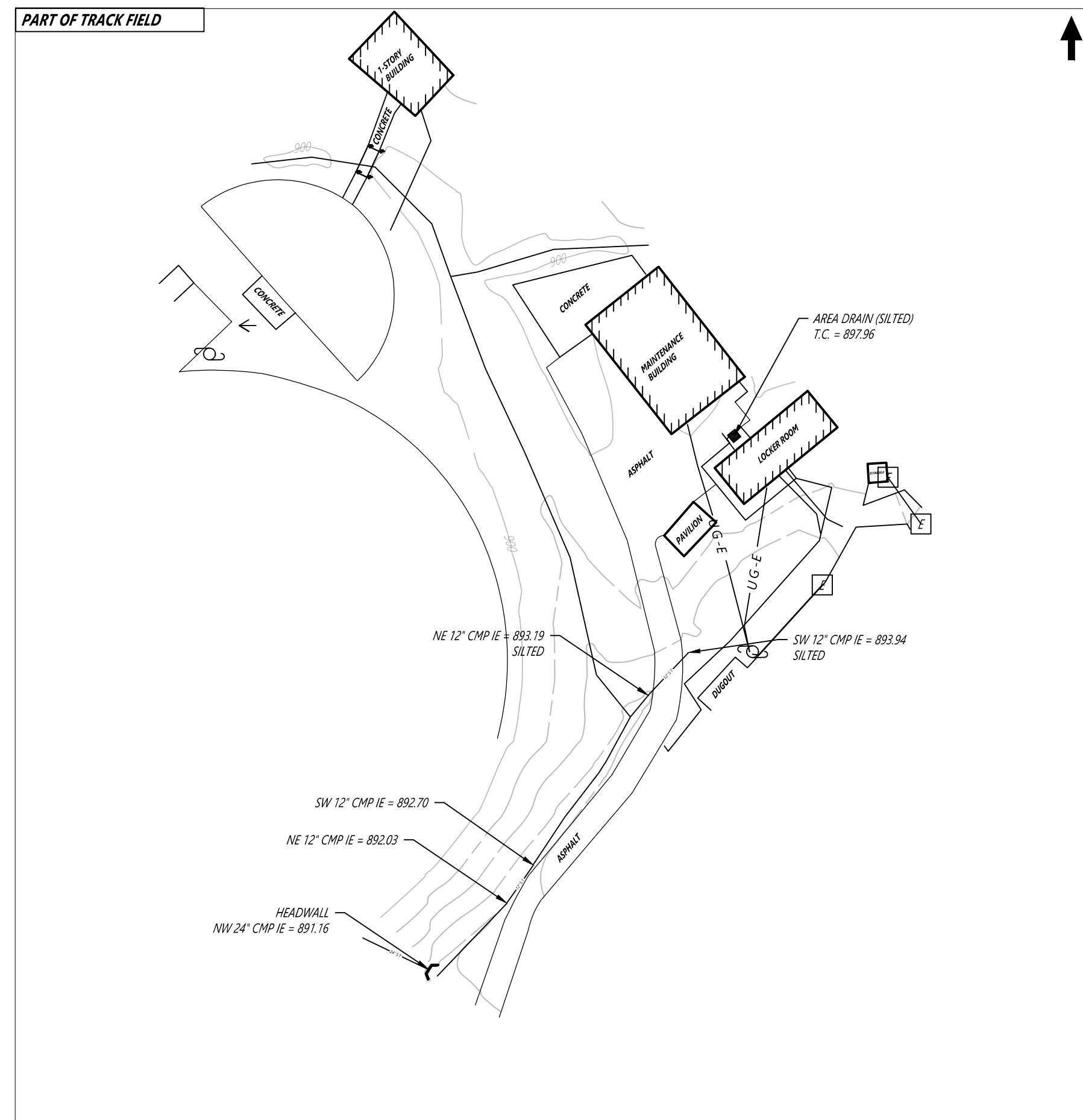
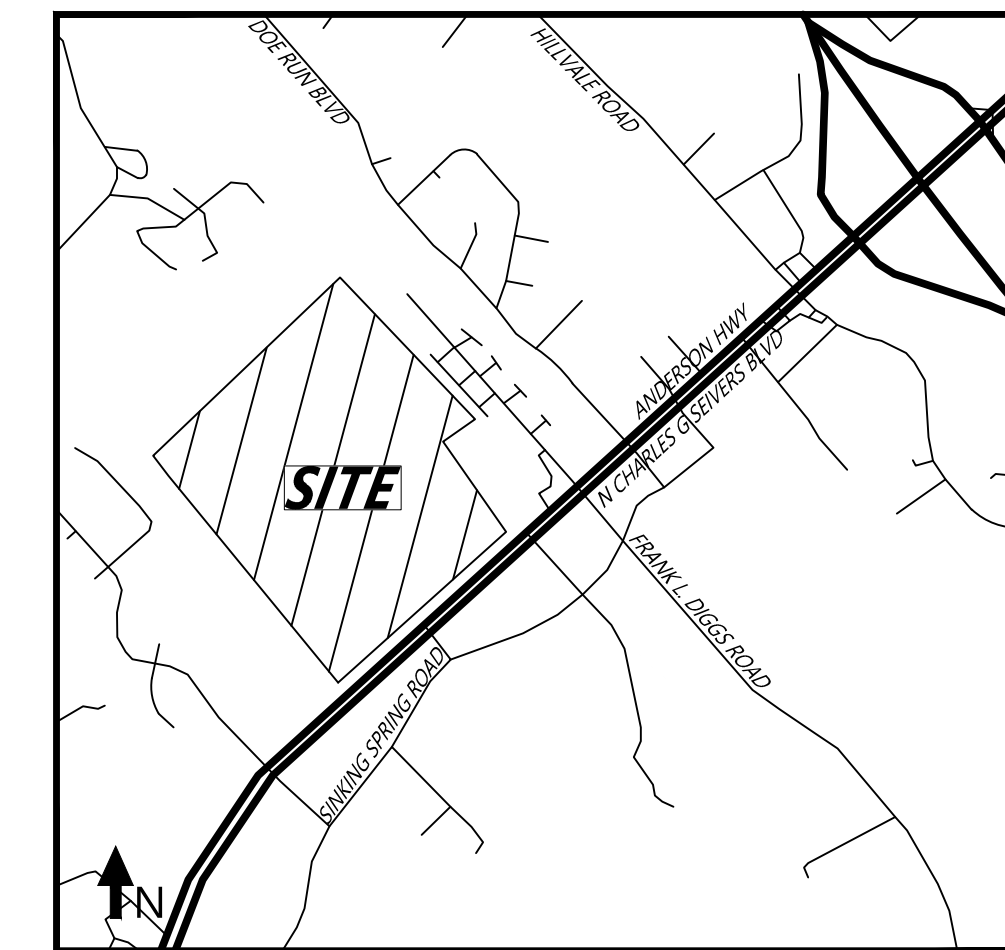
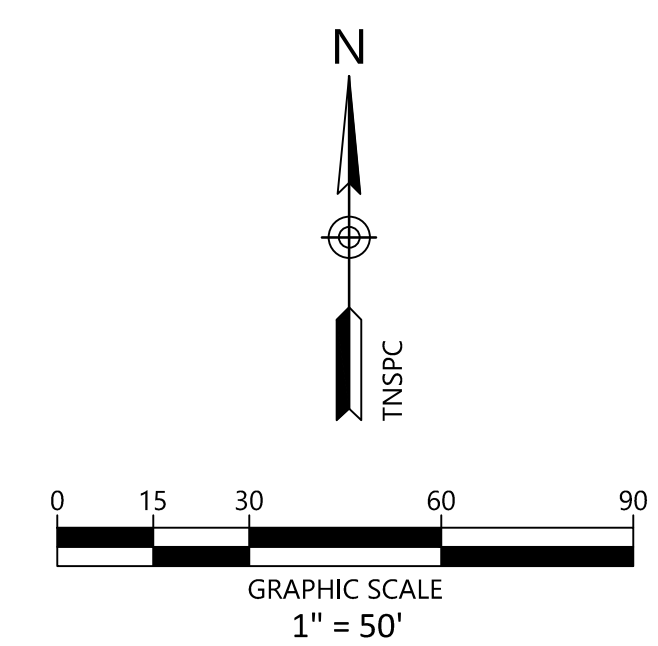
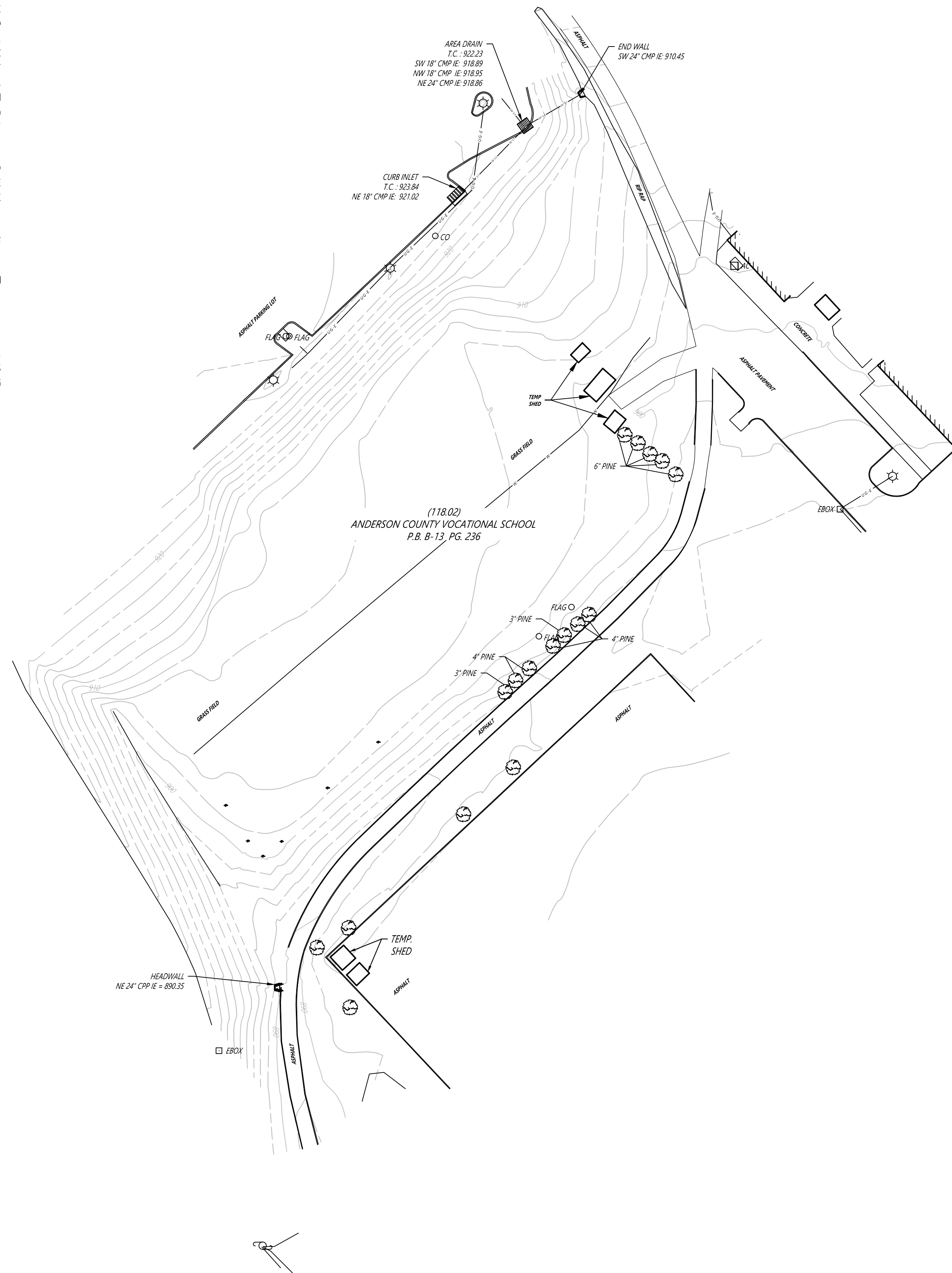
SITE DATA

PROPERTY LOCATED ON ANDERSON COUNTY TAX MAP 43, PARCEL 118.02

CITY: CLINTON
 COUNTY: ANDERSON
 STATE: TENNESSEE
 DISTRICT: 1
 SITE ADDRESS: 130 MAVERICK CIRCLE
 CLINTON, TENNESSEE
 OWNER: ANDERSON COUNTY VOCATIONAL SCHOOL
 RT 1
 CLINTON, TN 37716

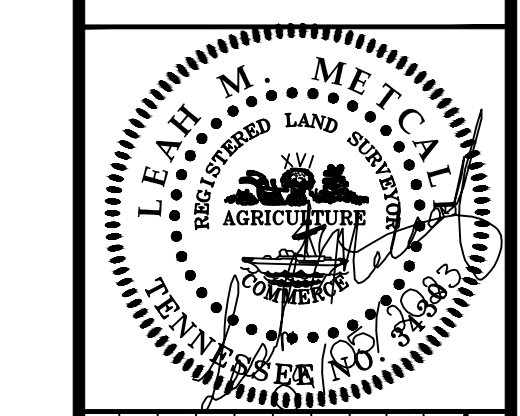
LEGEND

PARCEL NO.	(xx)
UNDERGROUND ELECTRIC	U G - E
CONTOUR LINE	-50-
WATER LINE	W
ELECTRIC METER	EM
UTILITY POLE W/ LIGHT	UL
CURB INLET	CI
CATCH BASIN	CB
WATER METER	WM
WATER VALVE	WV
SANITARY CLEANOUT	CO



658 GRASSMERE PARK DRIVE, STE 100
 NASHVILLE, TN 37211
 (615) 385-4144

DESIGN INNOVATION ARCHITECTS, INC
 402 S GAY ST, SUITE 201
 KNOXVILLE, TN 37902



NO.	DATE	DESCRIPTION	BY	CHK	APV
1	09/05/2023	ORIGINAL ISSUE	JPF	LMM	ABV

TOPOGRAPHIC SURVEY
 ANDERSON COUNTY HIGH SCHOOL
 ADDITIONAL TOPO
 TAX MAP 43, PARCEL 118.02
 CLINTON, ANDERSON COUNTY, TENNESSEE

SURVEYOR'S CERTIFICATE

I hereby certify that to the best of my knowledge and belief the hereon shown Topographic Survey represents a Category "IV" survey and as shown hereon and that the survey has been performed to the minimum standards for Land Surveying in the State of Tennessee.

By: *Leah M. Metcalf* Date: 09/05/2023
 LEAH M. METCALF TN Registered Surveyor No. 3430

PROJECT NUMBER	23430249
DRAWING NUMBER	S1.0

DRAWING PATH: T:\Knoxville-1430\Project\2023\23430249_AnderSon County Schools\Anderson County Schools\Football_Clinic\TIN\Civil Survey\CAD\Survey\23430249_AnderSon County HS_additional_Topo.dwg