

**IPSWICH PUBLIC SCHOOLS
TOWN OF IPSWICH, MA**

**INVITATION FOR BIDS (IFB)
FOR THE CONSTRUCTION OF ATHLETIC FIELD HOUSE
JACK WELCH MEMORIAL STADIUM
IPSWICH MIDDLE/HIGH SCHOOL
134 HIGH STREET, IPSWICH, MA 01938**

I. PROJECT INFORMATION/PROJECT NUMBER: IPS PROJECT 2702.062926
JUNE 29, 2026

- a) **Project Title:** Athletic Field House & Concession Stand
Jack Welch Memorial Stadium
- b) **Project Location:** Jack Welch Memorial Stadium
Ipswich Middle/High School campus
134 High Street, Ipswich, MA 01938

- c) **Project Overview:**
The construction of a 32x64 single-story athletic field house at the Jack Welch Memorial Stadium is planned to upgrade the functionality of the athletic complex and its capacity to support student athletes, teams, parent boosters and event attendees with two teams rooms, public toilets and a concession stand.

Project Scope of Work:

The Ipswich Public Schools seeks construction services to build an athletic field house at the Jack Welch Memorial Stadium on the campus of the Ipswich Middle/High School. This project will be completed in three phases. Pre-Phase I work was completed in the fall of 2025 with the installation of water and sewer utilities. Phase I work is being sought under this IFB.

Phase I of the building construction is to be done through the award of this contract, between the months of August and October 2026. The objective is to construct a weather-tight shell with doors and windows so the building can be fully secured awaiting the next phase of construction. Interior CMU partitions will also be constructed so that all masonry work will be completed in this phase. This will include the roof framing and shingles. All in-ground rough plumbing will be installed, stubbed off above slab level, and a concrete slab will be placed over a vapor barrier and rigid insulation.

The proposed 32' x 64' single-story Field House will contain two (2) team rooms, public toilet rooms and a concession area. It will be concrete slab on grade construction with insulated CMU Exterior walls clad with thin brick veneer. Interior walls will be 4" CMU walls.

The hip roof will be constructed with prefabricated wood trusses, plywood decking with asphalt shingles. Aluminum gutters and downspouts will be installed on three sides of the building. The downspouts will be connected to underground perimeter PVC drainpipes outletted to daylight behind the building. The building foundation will be backfilled and rough graded. Finished grading and paving will be done in Phase II.

Phase II of construction will be bid separately. It will include provision and installation of all plumbing fixtures, HVAC equipment, electrical, lighting and alarm system and devices. It will include installation of a suspended above ceiling insulation, suspended grid acoustic tile ceiling, interior painting and epoxy floor finish over the concrete slab. On the exterior it will include utility tie-ins, finish grading, and paving.

All disturbances to pavement and grass shall be returned to its existing grades and appearance. All work shall conform to the plans prepared by and attached to this Invitation for Bid (IFB) by Savoie Nolan Architects, LLC. dated April 15, 2026.

d) **Project Timeline:**

Upon award of contract to successful bidder, the work is to commence on/after July 31, 2026 and to be completed by October 30, 2026.

e) **Project Budget:**

Project budget to be provided by each bidder including all expenses for said project expected to be paid for by the Ipswich Public Schools to the contractor for any and all elements of advancing and completing the job.

f) **Project Design Documents:**

Field House Project Plan for detailing Scope of Service for the Proposed Field House, dated April 15, 2026 as prepared by Savoie Nolan Architects, LLC and Cummings Engineering, are included as a part of this IFB, available electronically as a PDF, and hard copy upon request of the schools' business office.

II. INVITATION FOR BID (IFB) INFORMATION

a) **IFB Title:** IPS Project 2702.062926
Athletic Field House & Concession Stand at Jack Welch Stadium

b) **IFB Purpose:**

Ipswich Public Schools is seeking proposals/bids from qualified, responsive and responsible contractors to fully execute Phase I of the construction of a 32x64 athletic field house at the Jack Welch Stadium on the campus of the Ipswich Middle/High School, in conformity with the design and engineering plan specifications of this IFB.

c) **Submission Deadline:**

The deadline for submission of all required bid components is **Tuesday, July 28, 2026 at 10:00am**. Any missing or incomplete required bid components may be cause for the submission to be deemed ineligible as nonresponsive.

d) **Bid Opening and Announcement of Anticipated Contract Awardee:**

The bid documents for all responses to this IFB submitted by the deadline will be opened at **10:15am on Tuesday, July 28, 2026** at the Ipswich Public Schools Central Office, 1 Lord Square, Ipswich, MA and reviewed by the Director of Finance & Operations. At this time, it is anticipated that the Director will assess the completion of the submittals and announce the bidders who have provided a complete bid package. The Bid Evaluation Committee will meet later that day for the purpose of evaluation and scoring of bid proposals with a goal of awarding the contract by **Thursday, July 30, 2026**.

e) **Submission Instructions:**

Submission of all required bid components are due either via email or hand-delivered not later than **10:00am on Tuesday, July 28, 2026**.

If via email, bid documents to be submitted as PDFs to: tmarkham@ipsk12.net

If to be hand-delivered: Ipswich Public Schools
Office of Finance & Operations
1 Lord Square, Ipswich, MA 01938
ATTN: Thomas Markham, Director

f) **Required Components for a Complete Submission:**

() Written acknowledgment, on company letterhead, of understanding the expectation of the scope of work, including the project completion date, and payment of Massachusetts Prevailing Wage rates

() Signed, Bid cost proposal for all expenses to be charged (*on company letterhead*)

() Non-collision form (*form enclosed in this IFB*)

() Tax compliance form (*form enclosed in this IFB*)

() Performance/Professional Reference form (*form enclosed in this IFB*)

() Bid deposit in the form of a certified check, payable to Ipswich Public Schools, for 5% of the value of the total bid

g) **Contact Information:**

Any bidder with questions or clarifications may contact the school district's procurement officer in writing or via email:

Thomas Markham, Director of Finance & Operations
Ipswich Public Schools
1 Lord Square
Ipswich, MA 01938
or via email at tmarkham@ipsk12.net

NOTE 1: Any such questions or requests for clarifications and any related answers shall be public information and automatically shared with all known potential bidders and, upon request, with any member of the public

NOTE 2: Answers to questions or clarifications shall be provided within three (3) business days of request; accordingly no questions shall be entertained after 10am on Wednesday, July 22, 2026.

h) **Site Walk-Through, Question and Answer Session:**

A site walk-through and Q&A session will be held on **Thursday, July 9, 2026 at 9:00am** meeting at the entrance to the Jack Welch Memorial Stadium. Attendance at this walk-through is optional and not a requirement of this IFB.

III. EVALUATION CRITERIA. This section identifies how Ipswich Public Schools will evaluate IFB bids.

OVERVIEW. Ipswich Public Schools will evaluate bids for this IFB as described below.

- a) Bidder responsiveness, specification, price factors and responsibility, will be evaluated based on the process described herein.
- b) Bidders whose bids are determined to be non-responsive will be rejected and will be notified of the reasons for this rejection.
- c) Ipswich Public Schools reserves the right to: (1) Waive any informality; (2) Reject any or all bids, or portions thereof; (3) Accept any portion of the items bid unless the bidder stipulates all or nothing in their bid; (4) Cancel an IFB and re-solicit bids; and/or (5) Negotiate with the lowest responsive and responsible bidder to determine if that bid can be improved.
- d) Ipswich Public Schools will use the following process and evaluation criteria for an award of a Contract:
 - *Step 1: Responsiveness. (Pass/Fail)*
 - *Step 2: Contractor Quality Requirements Evaluation. (Pass/Fail)*
 - *Step 3: Pricing Evaluation.*
 - *Step 4: Responsibility Analysis, Performance References. (Pass/Fail)*
- i. **RESPONSIVENESS (STEP 1).** Ipswich Public Schools will review bids – on a pass/fail basis – to determine whether the bid is ‘responsive’ to this IFB. This means that Ipswich Public Schools will review each bid to determine whether the bid is complete – i.e., does the bid include each of the required bid submittals, are the submittals complete, signed, legible. Ipswich Public Schools reserves the right – in its sole discretion – to determine whether a bid is responsive. (Components referenced above in II.d - Submission Instructions)
- ii. **CONTRACTOR QUALITY REQUIREMENTS EVALUATION (STEP 2).** Ipswich Public Schools will evaluate each bid on a pass/fail basis to ensure that each

bidder has met the Quality Requirements. Ipswich Public Schools reserves the right to request additional information or perform tests and measurements before selecting the Apparent Successful Bidder (“ASB”). A bidder’s failure to provide requested information to Ipswich Public Schools within ten (10) business days may result in disqualification.

- iii. **BID PRICING EVALUATION (STEP 3).** Ipswich Public Schools will evaluate bid prices – to identify the lowest evaluation total – by reviewing and comparing the submitted bid prices provided from among all responsive and responsible bidders.
 1. Only those bidders that are within 25% of the lowest total bid provided in response to this IFB will be further determined to be responsive and responsible bidders
 2. Ipswich Public Schools reserves the right to request clarification and justification of Bidder’s prices if they significantly vary from industry norm/standard and other Bidders. Ipswich Public Schools further reserves the right to not award a particular line item(s) if pricing significantly varies from industry norm/standard and other Bidders.
- iv. **RESPONSIBILITY ANALYSIS AND PERFORMANCE REFERENCES (STEP 4).** For responsive bids, Ipswich Public Schools will make reasonable inquiry to determine the responsibility of any bidder. Further, Ipswich Public Schools reserves the right to use references to confirm satisfactory customer service, performance, satisfaction with service/product, knowledge of products/service/industry and timeliness. Any negative or unsatisfactory reference can be reason for rejecting a proposer as non-responsible. Determination of responsibility will be made on a pass/fail basis.

IV. RULE FOR AWARD. The contract will be awarded to the responsive and responsible bidder offering the lowest total overall price for all required services.

- Following the award and execution of the Contract, the submission of required engagement documents, if any, and the issuance of an IPS Purchase Order, all bidders will receive a Notice of Award, usually through an email to the bidder’s email address provided in the bidder’s bid.
- **ADDITIONAL AWARDS.** Ipswich Public Schools reserves the right, during the resulting Contract term, if, in the best interest of the Ipswich Public Schools and the progress of the project, to make additional Contract awards to any responsive, responsible bidders who are not awarded the Contract. Such awards would be on the same or substantially similar terms and conditions and would be designed to address unforeseen circumstances or work conditions, subsequently agreed upon contractor limitations, a contractor vacancy (e.g., a Contractor is terminated or

goes out of business), or to respond to other school district needs, or be in the best interest of the Town of Ipswich, MA.

V. ADDITIONAL REQUIREMENTS IN EXECUTING THE CONTRACT AWARD

- a) **Insurance Requirements:** Issuance of Certificate of Insurance for general liability and indemnification of Ipswich Public Schools, the Town of Ipswich, its officials, employees and agents
- b) **Admissibility of contractor's employees and agents on school grounds:** Employees and agents of the contractor and any sub-contractors must meet required standards for being present on school grounds, including submission to CORI background checks and successful results
- c) **Terms of Payment:** Upon the issuance and acceptance of a contract and purchase order, the contractor agrees to payment terms, including the submission of timely invoices and certifications of prevailing wage rates, and the general acknowledgement that payment will not be advanced until completion of the project or phased components of the project mutually agreed upon as progress payments
- d) **Change Order Process:** Change order processes, including approvals, to be mutually agreed upon at the execution of the contract award.

VI. AUTHORIZATION

This Invitation for Bid (IFB) is being submitted on behalf of the Ipswich Public Schools, Town of Ipswich, upon authorization by the Ipswich School Committee and the Superintendent of Schools, with funding secured through Paine Grant Awards for FY2025 or earlier.

/s/ Thomas F Markham III
Director of Finance & Operations, SBA/Procurement Officer
Ipswich Public Schools
1 Lord Square
Ipswich, MA 01938

June 29, 2026

Attachment 1:

Project Design Plan & Specifications

See accompanying PDF of the General Project Plans for the Proposed Field House at Ipswich Middle/High School, Jack Welch Memorial Stadium. Dated April 15, 2026.

A hard copy upon request to the schools' business office located at 1 Lord Square, Ipswich, MA 01938

Prepared by: Savoie Nolan Architects, LLC
 130 Liberty Street
 Danvers, MA 01923
 978-356-7786

Cummings Engineering
200 Jefferson Road, Suite 201
Wilmington, MA 01887
978-658-2616

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this bid or proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity, or group of individuals.

Signature of individual submitting bid or proposal

Name of business

Date

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, §49A, I certify under the penalties of perjury that, to the best of my knowledge and belief, I and the business I am representing are in compliance with all laws of the Commonwealth of Massachusetts relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

Signature of individual submitting bid or proposal

Name of business

Date

Attachment 3:

Performance/Professional Reference Form

Attach additional sheets if necessary.

Bidder Name: _____

IFB Title: _____

Bidder must share at least three (3) past or present customers able to provide a professional reference for quality of work performance. References should be able to speak to contracted work performed within the past two (2) years of similar size and scope to this contract; or all current contracts where the vendor's equipment has been operational for at least two (2) years; or other requirements that may help define an appropriate reference pool.

Reference Company Name 1: _____

Contact person name: _____

Address: _____

Phone: _____ Email: _____

Description and date(s) of supplies or services provided to this reference:

Reference Company Name 2: _____

Contact person name: _____

Address: _____

Phone: _____ Email: _____

Description and date(s) of supplies or services provided to this reference:

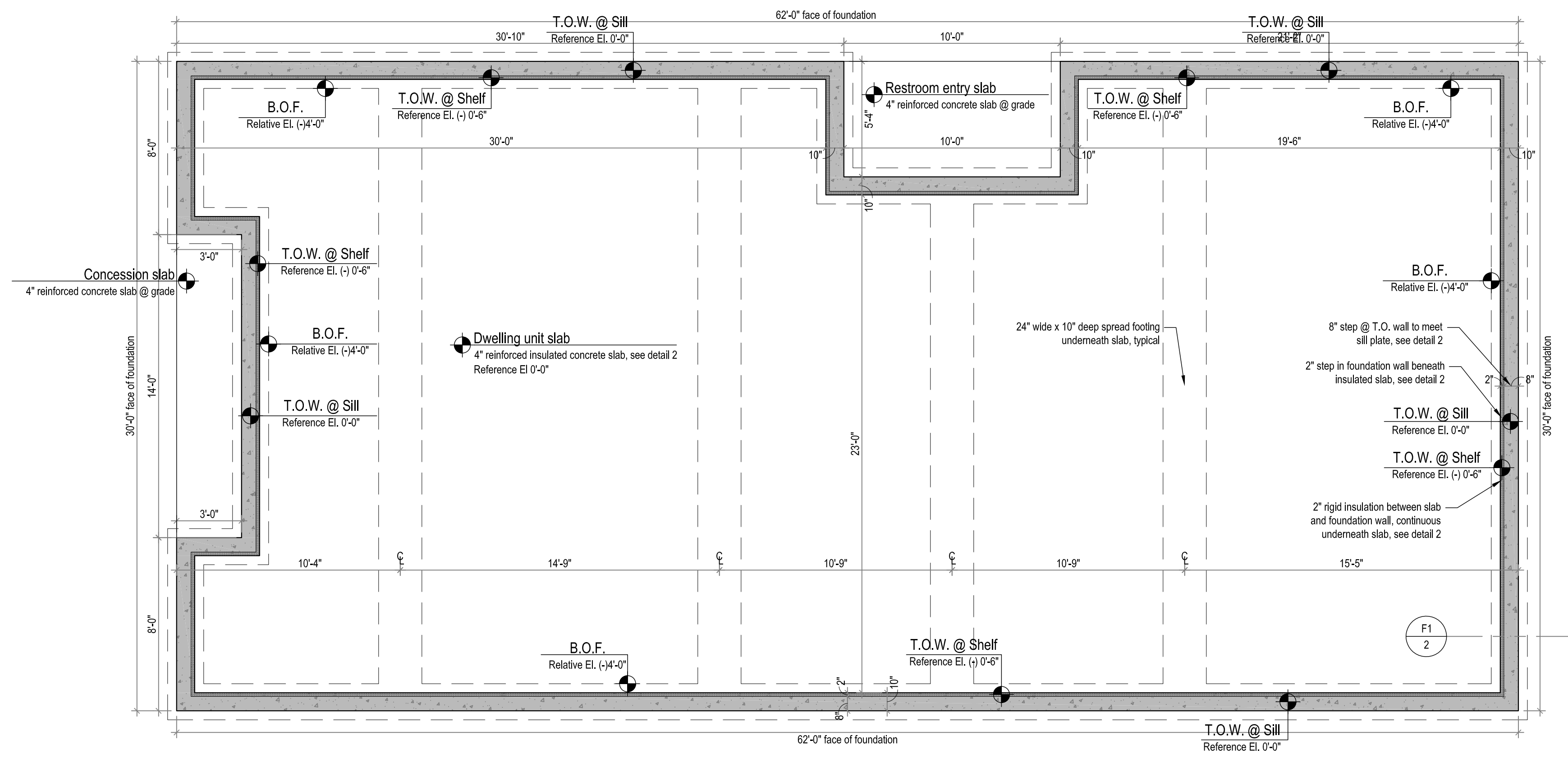
Reference Company Name 3: _____

Contact person name: _____

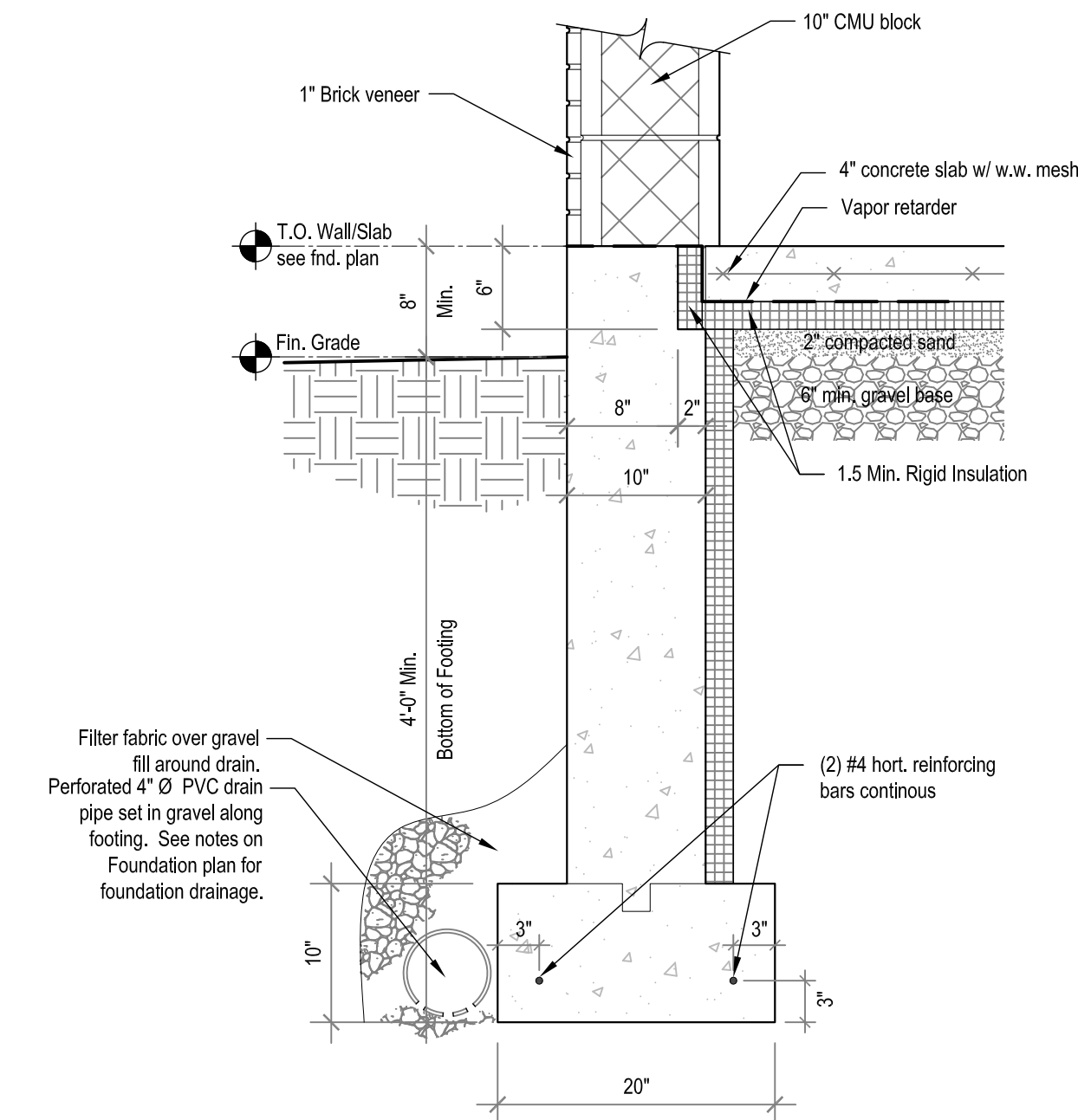
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Phone: _____ Email: _____

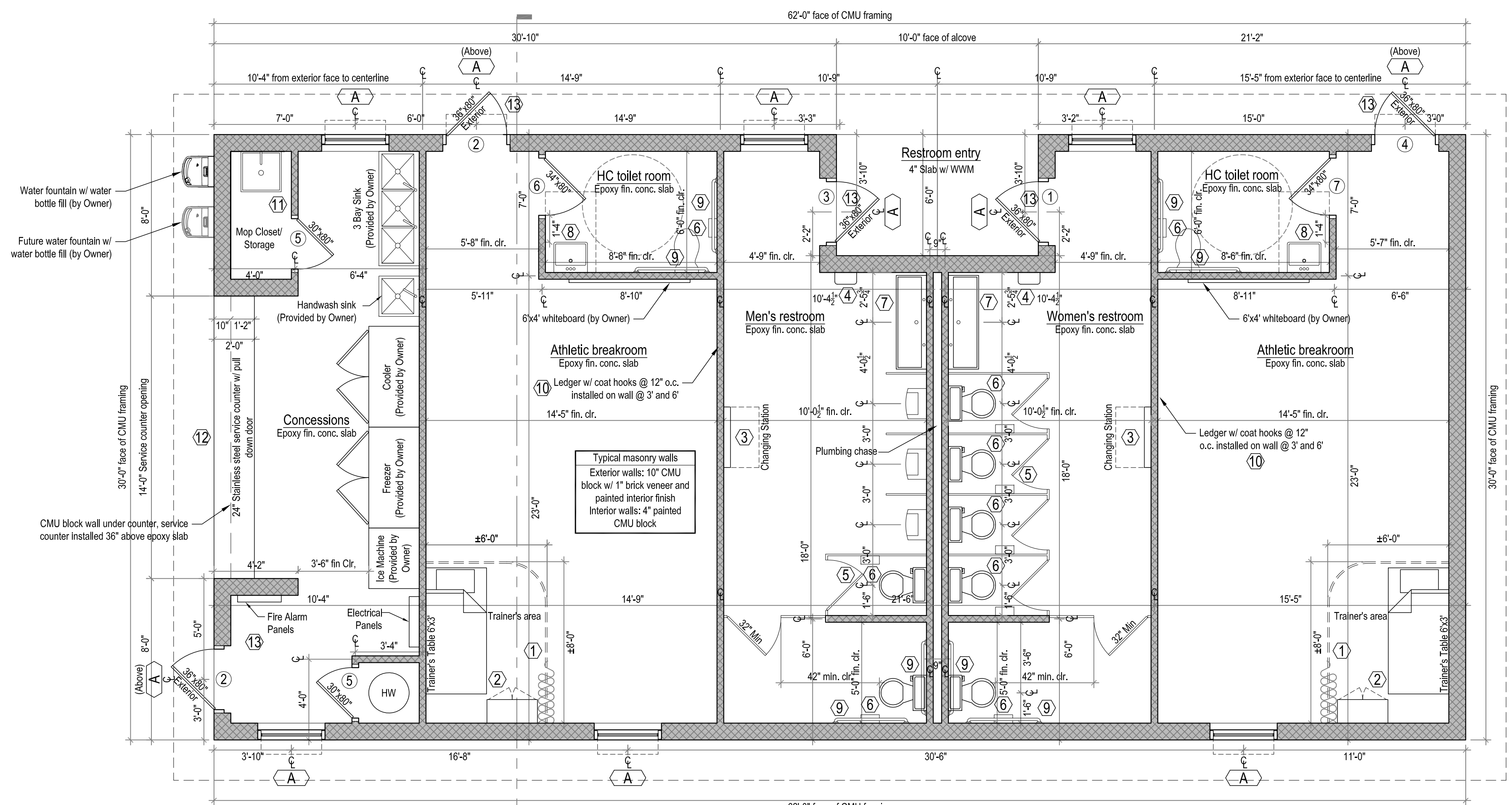
Description and date(s) of supplies or services provided to this reference:



1 Proposed Foundation Plan
Scale 1/4" = 1'-0"



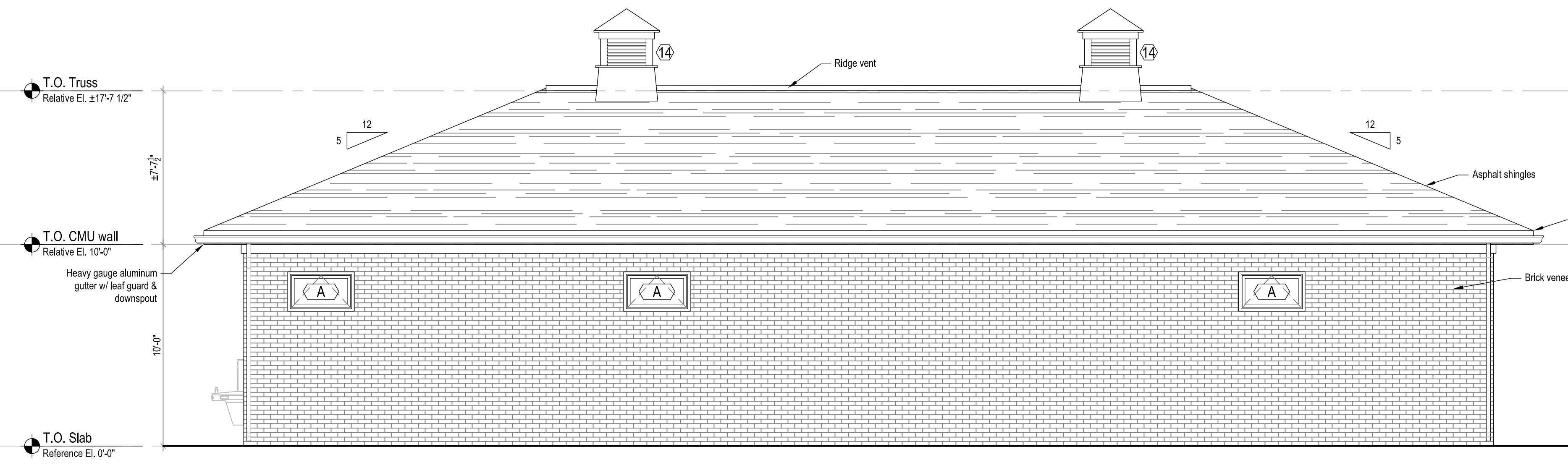
2 Typ. Slab on Grade - Frost Wall
Scale: 1" = 1'-0"



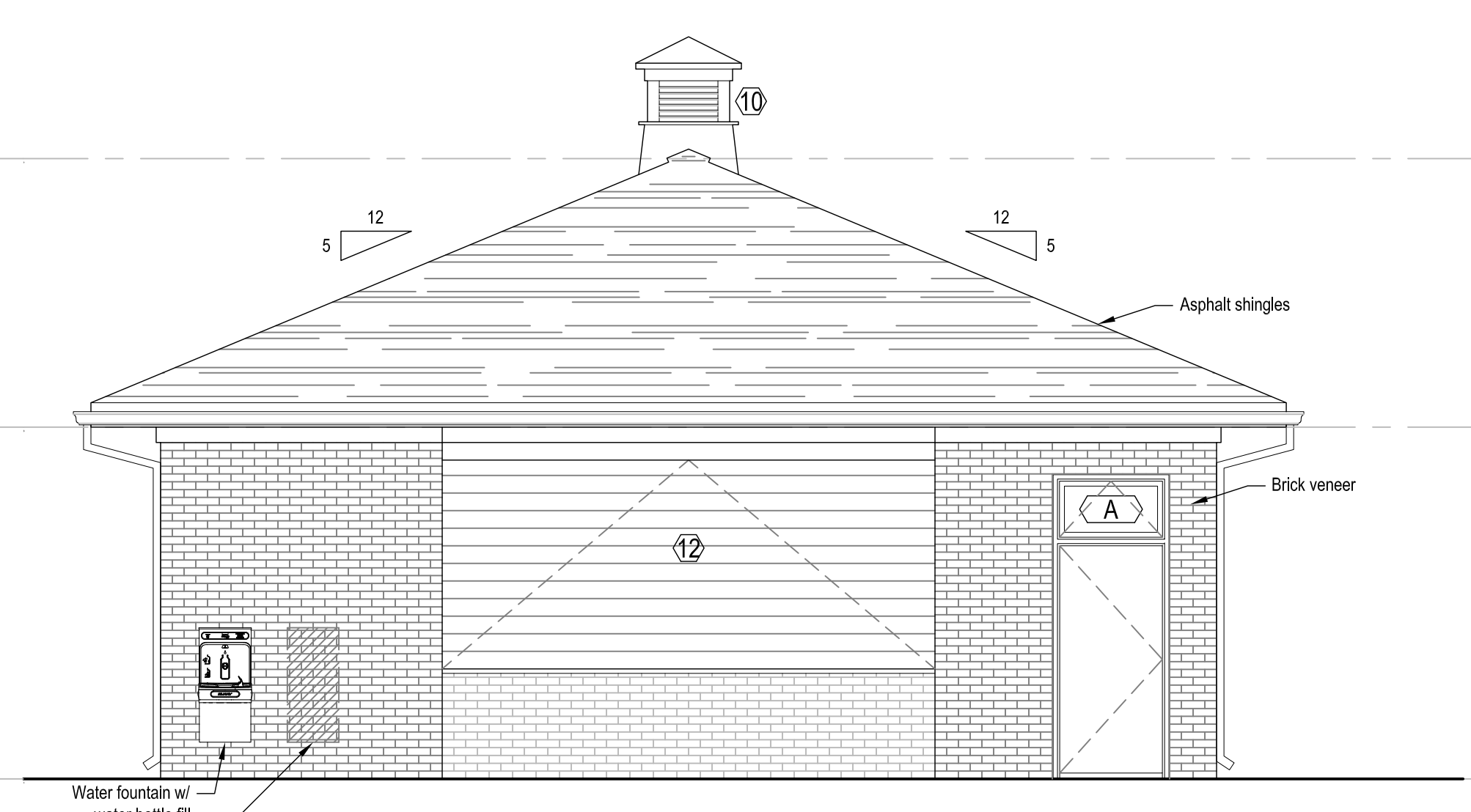
3 Proposed Floor Plan
Scale 1/4" = 1'-0"

PRODUCT SCHEDULE				
MRK	QNT.	PRODUCT	MANUFACTURER CATALOG NO.	NOTES
1	2	American Track Supply Ceiling Mounted Aluminum Curtain Track Style 2/3 Kit	N/A	
2	2	Uline Wall-Mount Cabinet	H-4471GR	
3	2	Koala Kare Baby Changing Station	KB300-01SS	
4	2	Xlerator Hand Dryer	XL-BW	Ceiling hung partitions & wall mounted screens
5	N/A	Hadrian Phenolic Toilet Partitions	N/A	
6	9	Uline Jumbo Bath Tissue Dispenser - Single Roll, Stainless Steel	H-5113	
7	2	Modo Bath Unlimited 120 Mono Rectangular ADA Compliant Trough Vessel	120 Mono BM	Faucet holes dependent on sink & soap dispenser selection
8	2	American Standard Decorum Wall-Hung Lavatory with Everclean	9024	Faucet holes dependent on sink & soap dispenser selection
9	8	Harney Hardware Bathroom Grab Bar, 42 In. x 1 1/2 In.	71766	
10	84	Eurofit Recessed Folding Hook S/Steel Effect	HK00005	Installed @ 12" o.c. along shared bathroom/breakroom wall @ 3' & 6'
11	1	Molded Stone Stainless Steel Mop Service Basin	MSB 2424	
12	1	Cornell Iron Rolling Counter Shutter	ESC10	Milled finish aluminum interlocking slats
13	5	Harney Hardware Commercial Door Lever Set Keyed	86525	
14	2	Good Directions Manchester Vinyl Cupola w/ Black Aluminum Roof	2142MV/BLK-SCR	

NOTE:
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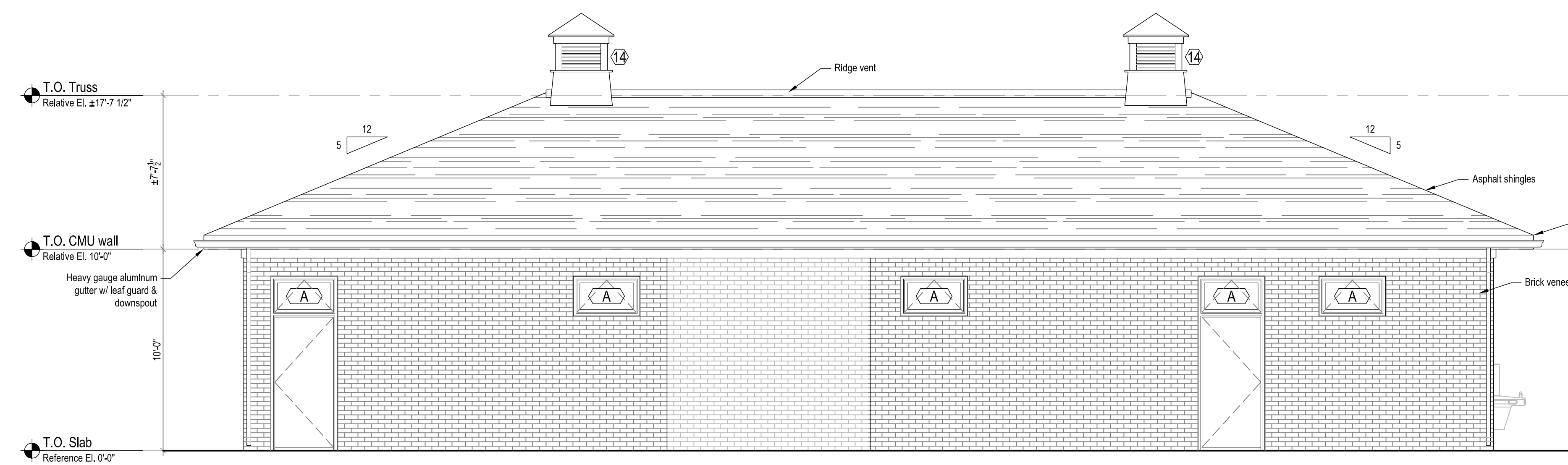


1 Rear (Southern) Elevation
Scale 1/4" = 1'-0"

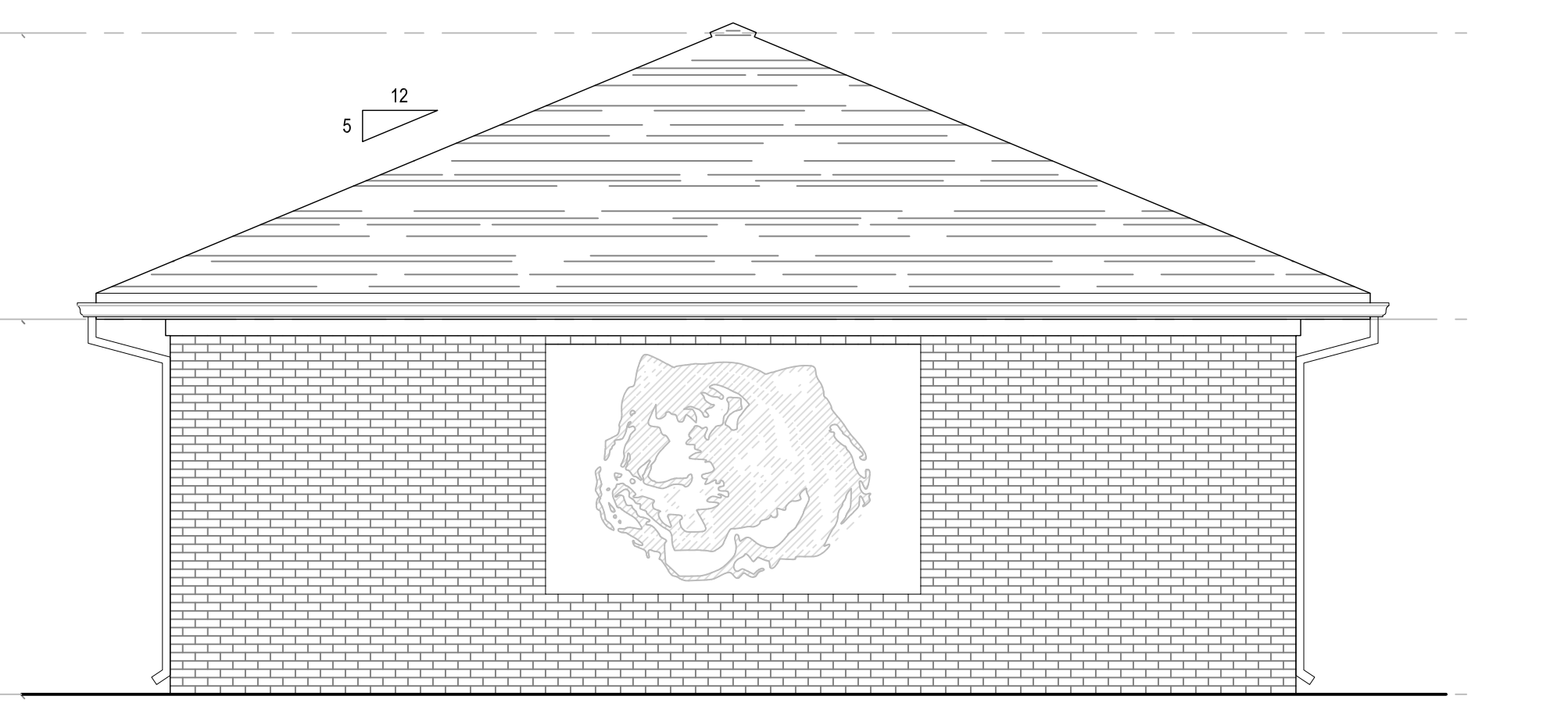


2 Right (Western) Elevation
Scale 1/4" = 1'-0"

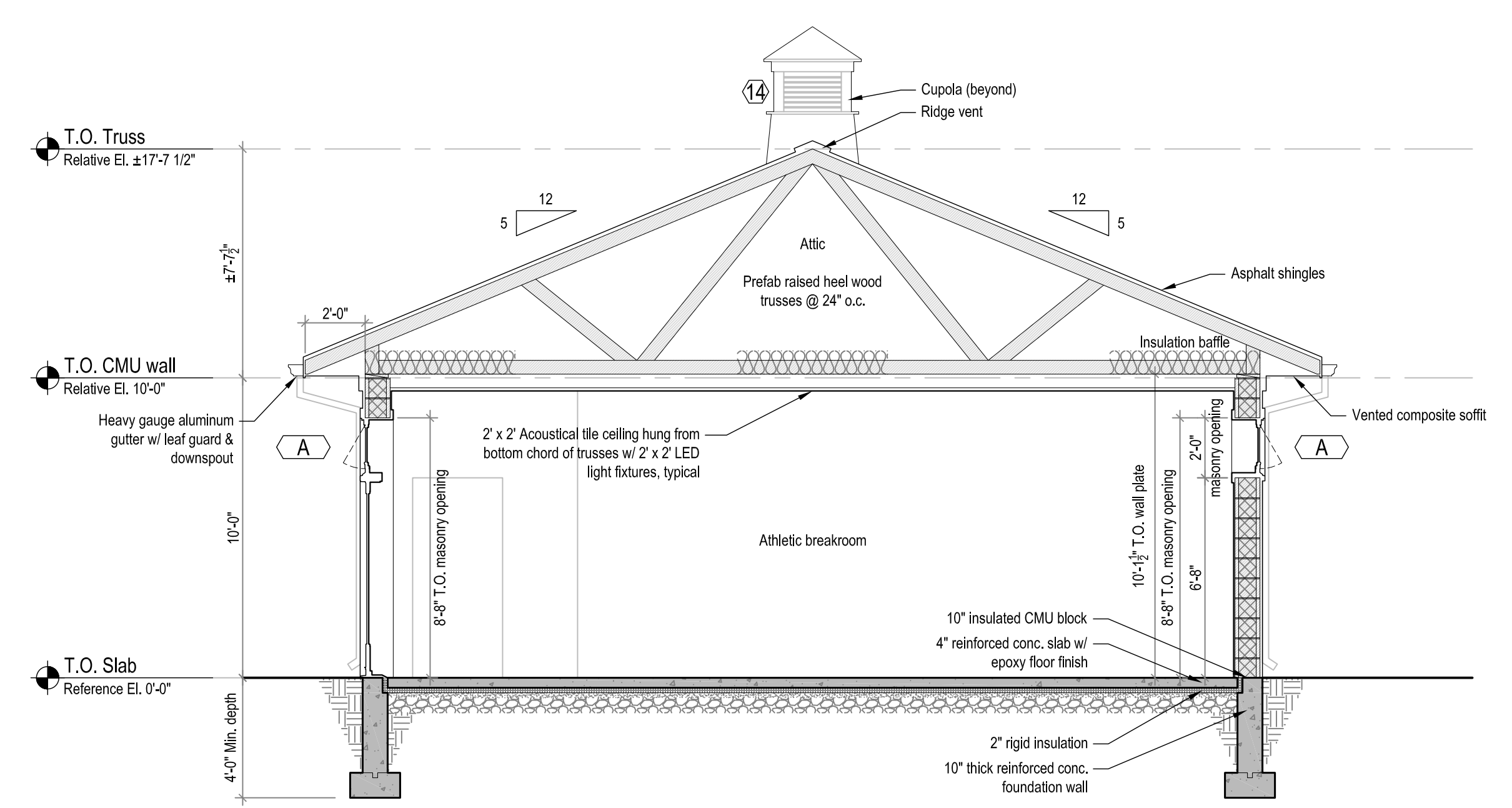
Windows
Hollow metal frames @ window openings w/ aluminum thermal panel operable awning window units



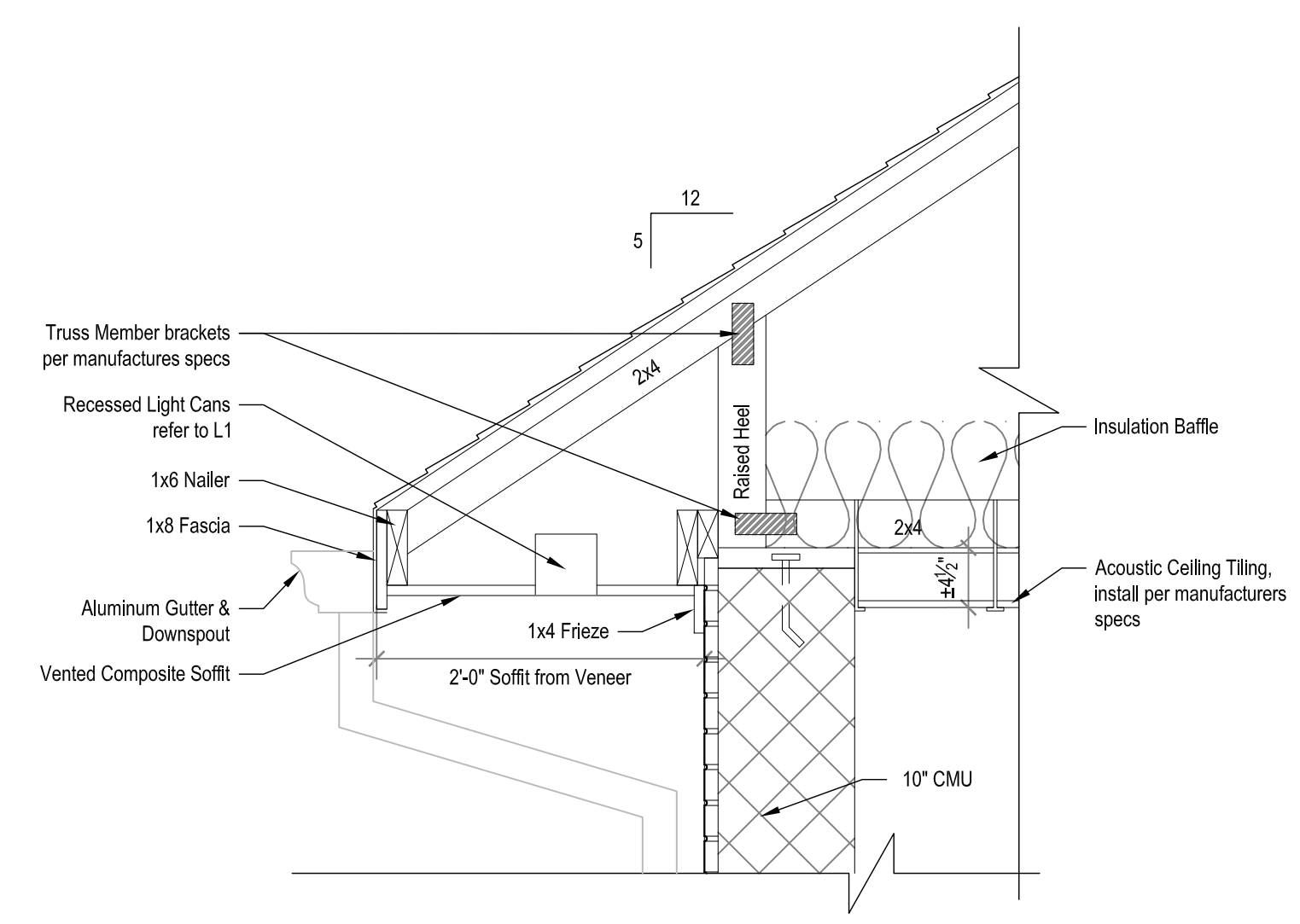
3 Front (Northern) Elevation
Scale 1/4" = 1'-0"



4 Left (Eastern) Elevation
Scale 1/4" = 1'-0"



5 Building Section
Scale 1/4" = 1'-0"



6 Typ. Raised Heel - Soffit
Scale: 1" = 1'-0"

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STAMP:
ISSUED FOR PRICING 04/15/2026

Proposed New Construction:
IPSWICH FIELDHOUSE
135 High Street, Ipswich, MA

CUMMINGS ENGINEERING
200 JEFFERSON ROAD, SUITE 201
WILMINGTON, MA 01887
(978) 658-2616

Date: 04-15-2026 Scale: 1/4"=1'-0"

Drawing Number
A2

NOTE:
 - Refer to header schedule for all header sizes unless otherwise noted.
 - All exterior hangers are to be stainless steel

Framing Legend

Note:
 Provide solid continuous bearing at all point loads to foundation

■ Post Down
 ▣ Post Up & Down
 □ Post Up
 ▬ Bearing Wall (below)
 --- B.W.L. --- Braced Wall Line

ABW Alternative Braced Wall Segment
 NBW Narrow Braced Wall Segment
 Flushed Framed Condition

Codes referenced from 9th Edition CMR 780 and IRC 2021

Braced Wall Line Notes:
 502.10.3 - Braced Wall Panel Construction
 Table 502.3(1) - Fastener Schedule For Structural Members
 Design Criteria: basic wind speed of 125 MPH & Exposure 'B'

Exterior Walls along Braced Wall Line
 Method #3 (unless otherwise noted) Material: Wood structural panels, Fasteners: 6d common nail @ 6" o.c. (edges) & 12" o.c. (intermediate supports)
 Sole plate to joist or blocking at braced wall panels fasteners: (3) 16d @ 16" o.c.

Interior walls along Braced Wall Line
 Method #5 (unless otherwise noted) Material: 1/2" Gypsum sheathing (min dimension 48"x96"), Fasteners: 6d common nail or 1 1/4" type W or S screws @ 4" o.c. (edges) & 8" o.c. (intermediate supports)

Alternative Braced Wall Panel along Braced Wall Line: refer to R602.10.1

Multiple Member LVL Connection

Side Loaded Applications, Maximum Uniform Side Load (plf)

Number of Members	Nailed		1/2" Dia Through Bolt (1)		5/8" Dia. Through Bolt (1)	
	2 rows 16d Sinkers @ 12" o.c.	3 rows 16d Sinkers @ 12" o.c.	2 rows @ 24" o.c. Staggered	2 rows @ 12" o.c. Staggered	2 rows @ 24" o.c. Staggered	2 rows @ 12" o.c. Staggered
2 (2)	470	705	505	1010	2020	560
3 (2)	350	525	375	755	1515	420
4 (2)	use bolt schedule	335	670	1345	370	745

1-3/4" VERSA - LAM (Depths of 18" and less)

Chart from Boise Cascade EHP ALLJOIST SPECIFIER GUIDE

1. Design values apply to common bolts that conform to ANSISME standard B18.21-1981 (ATSM A307 Grades A&B, SAE J429 Grades 1 or 2, or higher). A washer not less than a standard cut washer shall be between the wood and the bolt head and between the wood nut. The distance from the edge of the beam to the bolt holes must be at least 2" for 1/2" bolts and 2 1/2" for 5/8" bolts. Bolt holes shall be the same diameter as the bolt.

2. The nail schedules shown apply to both sides of a 3-member beam.

3. 7" wide beams must be top-loaded or loaded from both sides (lesser side shall be no less than 25% of opposite side).

Window & Door Header Schedule

Roof, Ceiling, & two clear span floors

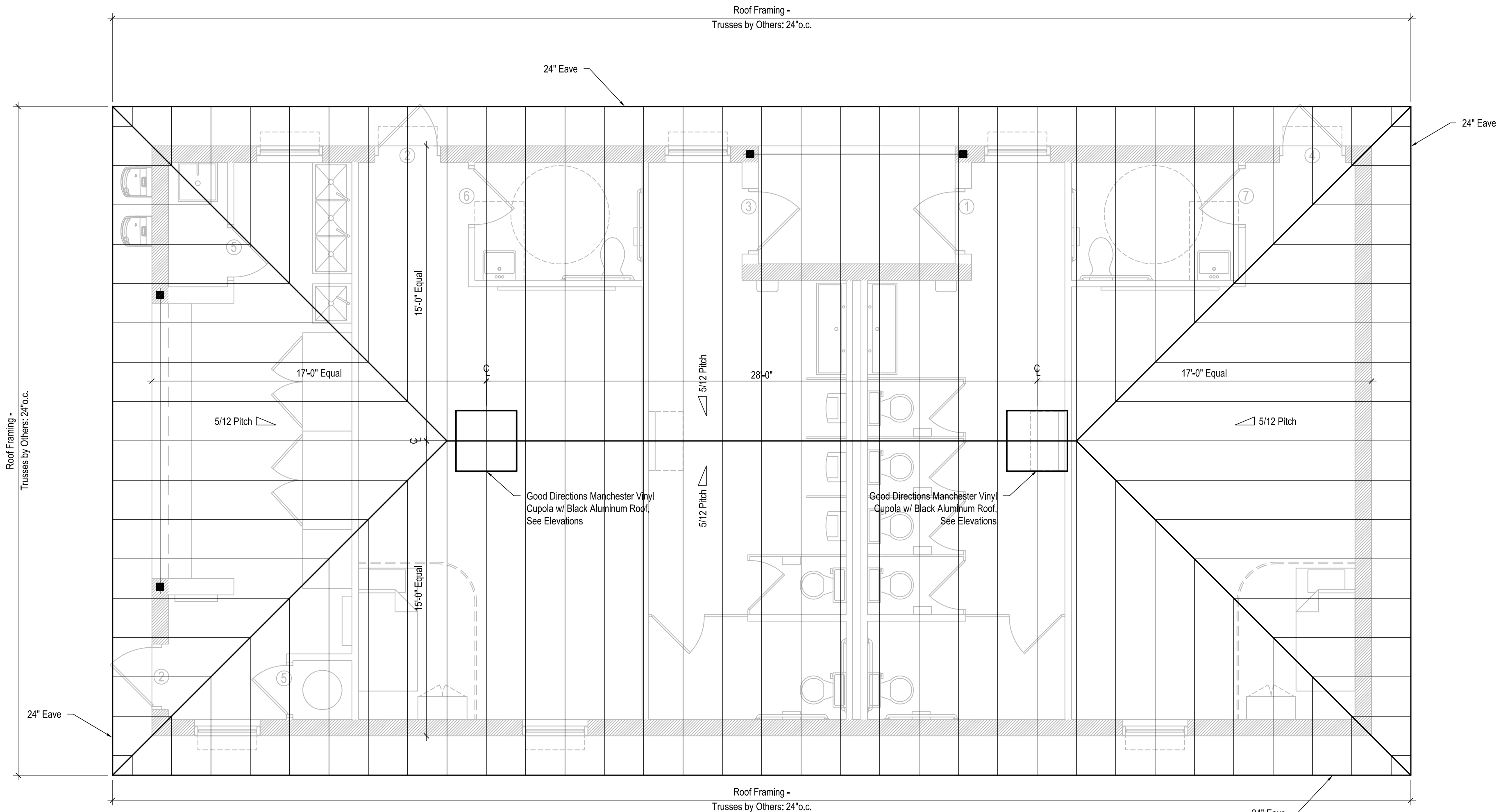
SPAN	JACKS	REQUIRED SIZE
Up to 3'-0"	2	(2) 2 x 8
Up to 4'-0"	3	(2) 2 x 10
Up to 5'-0"	2	(3) 2 x 10
Up to 5'-6"	2	(4) 2 x 10 or (3) 2 x 12
Up to 6'-6"	2	(4) 2 x 12

Roof, Ceiling, & one clear span floor

SPAN	JACKS	REQUIRED SIZE
Up to 3'-0"	2	(2) 2 x 6
Up to 4'-0"	2	(2) 2 x 8
Up to 5'-0"	2	(3) 2 x 8 or (2) 2 x 10
Up to 6'-0"	2	(4) 2 x 8 or (3) 2 x 10
Up to 7'-0"	2	(4) 2 x 10 or (3) 2 x 12
Up to 8'-6"	2	(4) 2 x 12

Roof & Ceiling

SPAN	JACKS	REQUIRED SIZE
Up to 4'-0"	1	(2) 2 x 6
Up to 5'-0"	2	(2) 2 x 8
Up to 6'-0"	2	(2) 2 x 10
Up to 7'-0"	2	(4) 2 x 8 or (2) 2 x 12
Up to 9'-0"	2	(4) 2 x 10 or (3) 2 x 12
Up to 10'-6"	2	(4) 2 x 12



1 Roof Framing Plan
 Scale 1/4" = 1'-0"

NOTE:
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Drawing Number
F1

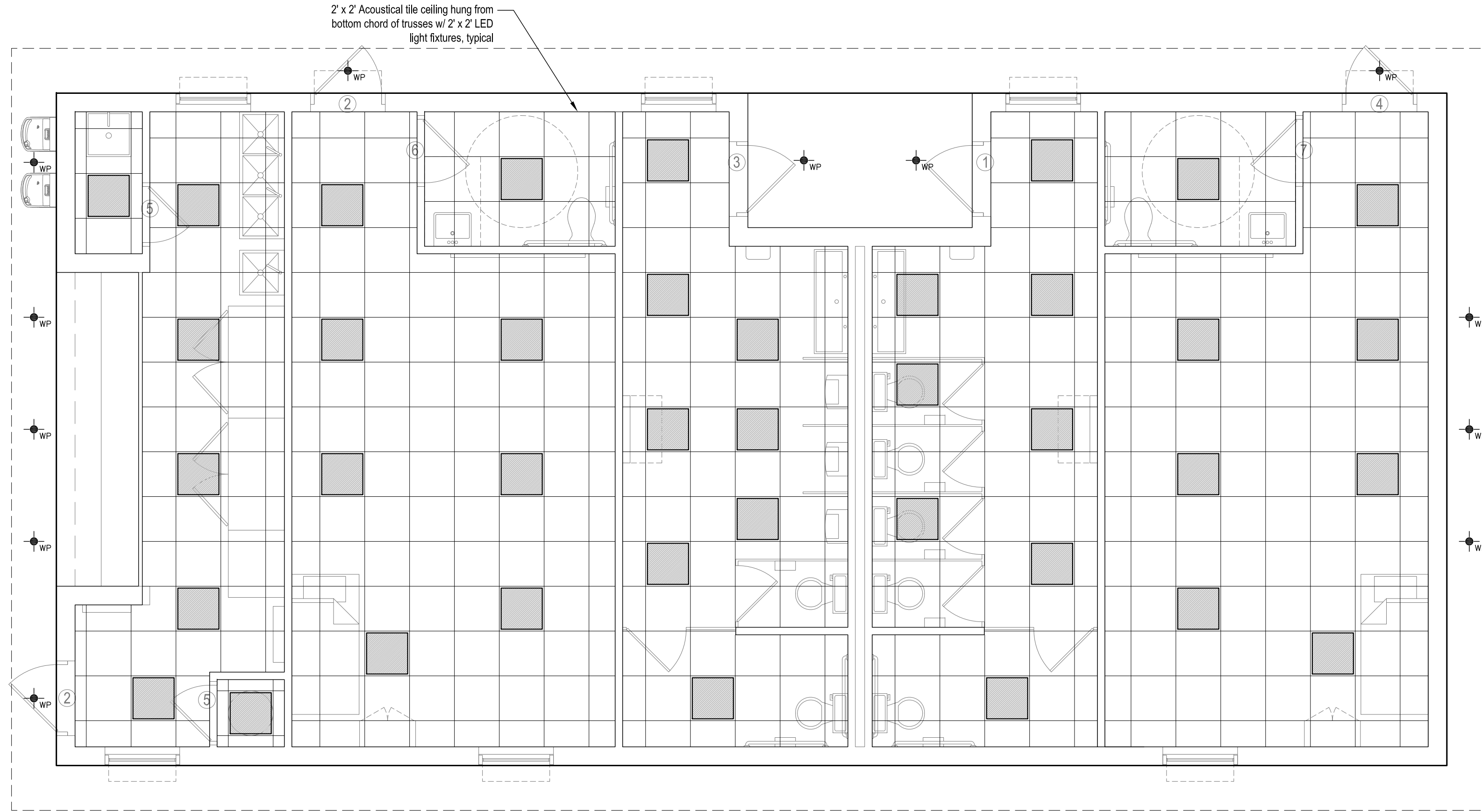
© 2026 by Savoie Nolan Architects LLC

Electrical Symbol List

⌚	Switch, single pole	☉	Light fixture, standard porcelain
⌚	Switch, three way	☉	LED light fixture
⊕	Duplex receptacle	☉	LED recessed Pin Light 1.75"
⊕	Duplex receptacle, split wire - top switched	☉	LED recessed can
⊕	Duplex receptacle, ground fault protected	☉	LED recessed can, wet location
⊕	Duplex floor receptacle	☉	Light fixture, Pendant
⊕	Duplex receptacle, weatherproof (GFI)	☉	Light fixture, wall mounted
☉	Light fixture, surface ceiling mounted	☉	Bath Fan / light
TV	Cable TV jack	☐	2' x 2' LED Light fixture

Additional Electrical Notes:

1. Lighting layout is for estimating purposes only.
2. Provide lighting and outlets as required by code and as directed in the Basement and Attic.
3. Final switching and fixture locations to be reviewed and approved in the field.
4. Provide dimmer switches on all recessed lights, pendant lights and as directed in the field.



1 Reflected Ceiling Plan
Scale 1/4" = 1'-0"

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Date: 04-15-2026 Scale: 1/4"=1'-0"

Drawing Number
L1

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HVAC NOTES

1. SCOPE OF WORK

- A. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
- B. ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE, ALL LOCAL CODES AND ALL OTHER REGULATION GOVERNING WORK OF THIS NATURE.
- C. THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY EFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
- D. ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.

2. PERMITS

- A. THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.

3. SHOP DRAWINGS

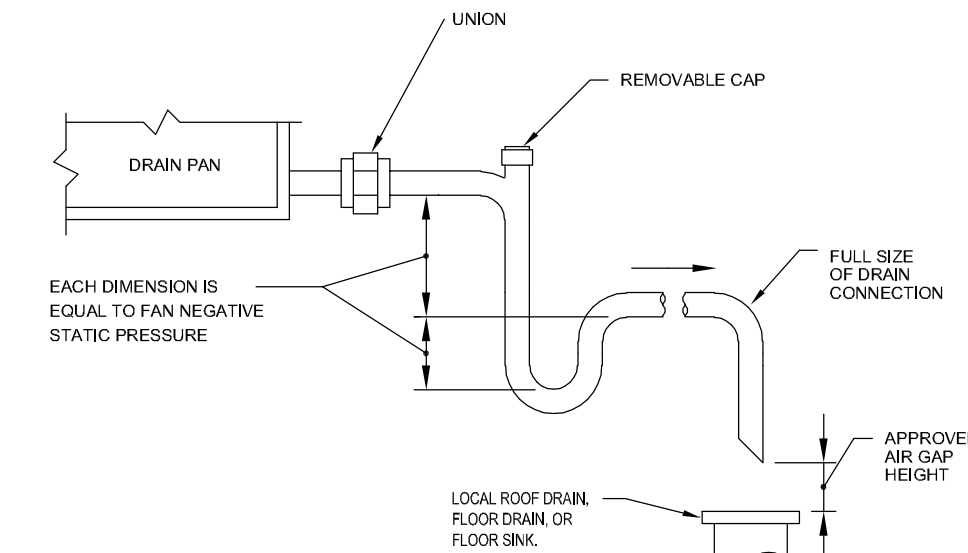
- A. SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT FIVE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.

4. FLEXIBLE TYPE DUCT

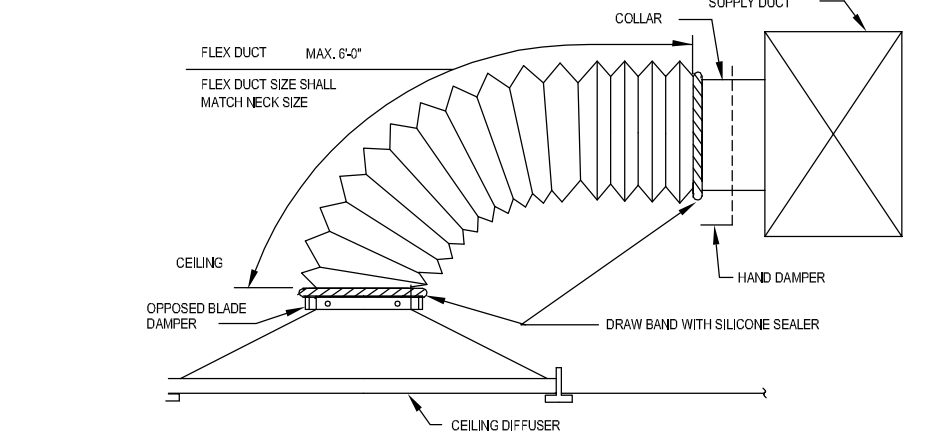
- A. SHALL BE OF TWO ELEMENT SPIRAL CONSTRUCTION COMPOSED OF A CORROSION RESISTANT METAL SUPPORTING SPIRAL AND COATED FABRIC WITH A MINERAL BASE. FLEXIBLE DUCT CONNECTORS SHALL BE LISTED BY U.L., CLASS 1 DUCTS, AND SHALL HAVE A FLAME SPREAD RATING NOT EXCEEDING 25 AND A SMOKE DEVELOPED RATING NOT EXCEEDING 50.
- B. USE OF FLEXIBLE DUCTWORK SHALL BE LIMITED TO NO MORE THAN 14 LINEAR FEET PER RUN.
- C. CONTRACTOR SHALL BE CAREFUL SO AS NOT TO KINK OR COLLAPSE FLEXIBLE DUCT.

5. REFRIGERANT PIPING

- A. CONTRACTOR SHALL PROVIDE AND INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN SUCH A WAY AS TO BE INCONSPICUOUS AND FREE FROM ANY POSSIBLE CONDENSATION. INSULATE REFRIGERANT LINES WITH ARMOUR-FLEX TYPE INSULATION.
- B. SHALL BE TYPE "K" COPPER TUBING, WITH WROUGHT COPPER SOLDER TYPE FITTINGS SUITABLE FOR CONNECTION WITH SILVER SOLDER.



CONDENSATE DRAIN DETAIL
N.T.S.



TYPICAL DIFFUSER CONNECTION
(SIDE OF DUCT CONNECTION)
NOT TO SCALE

6. DUCTWORK

- A. THE DUCTWORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "SMACNA" APPLICABLE MANUALS. ALL DUCTWORK SHALL BE THE LOW VELOCITY TYPE, UNLESS SPECIFIED OTHERWISE.
- B. CONTRACTOR SHALL PROVIDE AND INSTALL APPROVED FIRE DAMPERS AND ACCESS PANELS IN ANY AND ALL DUCTWORK WHICH PENETRATES A HORIZONTAL OR VERTICAL FIRE PARTITION, OR AS OTHERWISE SHOWN ON DRAWINGS.
- C. ALL BRANCH DUCTS TO HAVE VOLUME DAMPERS.
- D. SMOOTH TURN RADIUS DUCTWORK OR TURNING VANES SHALL BE USED THROUGHOUT WHERE FLOW EXCEEDS 150 CFM.
- E. ALL DUCT JOINTS TO BE SEALED IN ACCORDANCE WITH "SMACNA" STANDARDS AND ACCEPTED GOOD PRACTICE.
- F. ALL DUCT DIMENSIONS SHOWN ARE NET INSIDE VALUES. DIMENSIONS MAY BE CHANGED SO LONG AS THE NET FREE FACE AREA IS MAINTAINED.
- G. ALL CONCEALED DUCTWORK SHALL BE INSULATED WITH 1-1/2" FIBERGLASS INSULATING BLANKET WITH ALUMINUM FOIL FACING.
- H. ALL SUPPLY AND RETURN DUCTWORK 15 FEET DOWNSTREAM OF THE HVAC UNIT SHALL BE INTERNALLY LINED WITH A 1/2" ACOUSTICAL DUCT LINER.

7. DRAINAGE PIPING (CONDENSATE)

- A. SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT JOINTS. PITCH HORIZONTAL LINES 1" IN 10'-0". CONDENSATE DRAINS SHALL BE ROUTED TO FLOOR DRAIN OR INDIRECT WASTE DRAIN.

8. HVAC CONTROLS

- A. CONTRACTOR TO SUPPLY AND INSTALL ALL CONTROL WIRING AND THERMOSTATS AS REQUIRED.

9. ELECTRICAL

- A. CONTRACTOR TO COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF WIRING FOR EACH HVAC UNIT.

10. PIPE SUPPORTS

- A. ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE OR METAL STRAP TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL NOT EXCEED 8 FEET FOR ALL PIPING. PLASTIC PIPING TO BE SUPPORTED EVERY 4 FEET.

HEAT PUMP - INDOOR UNIT SCHEDULE												
EQUIPMENT NO.	SERVICE	SUPPLY AIR CFM	MIN. O.A. AIR CFM	EXT. S.P. (N. W.G.)	COOLING CAPACITY (BTU/HR)	HEAT PUMP HEATING CAPACITY (BTU/HR)	BACKUP ELECTR. HEATING KW	MBH	ELECTRICAL VOLT.-PH.-CY.	AMPS	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
1	CONCESSION AREA	600	N/R	N/R	18,000	22,000	N/R		208-1-60	0.4	mitsubishi 1.5 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
2	CONCESSION AREA	600	N/R	N/R	18,000	22,000	N/R		208-1-60	0.4	mitsubishi 1.5 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
3	ATHLETIC BREAK ROOM	600	N/R	N/R	18,000	22,000	N/R		208-1-60	0.4	mitsubishi 1.5 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
4	ATHLETIC BREAK ROOM	600	N/R	N/R	18,000	22,000	N/R		208-1-60	0.4	mitsubishi 1.5 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
5	MEN'S ROOM	315	N/R	N/R	8,000	9,000	N/R		208-1-60	0.4	mitsubishi 0.75 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
6	MEN'S ROOM	315	N/R	N/R	8,000	9,000	N/R		208-1-60	0.4	mitsubishi 0.75 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
7	WOMEN'S ROOM	315	N/R	N/R	8,000	9,000	N/R		208-1-60	0.4	mitsubishi 0.75 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
8	WOMEN'S ROOM	315	N/R	N/R	8,000	9,000	N/R		208-1-60	0.4	mitsubishi 0.75 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
9	ATHLETIC BREAK ROOM	600	N/R	N/R	18,000	22,000	N/R		208-1-60	0.4	mitsubishi 1.5 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)
10	ATHLETIC BREAK ROOM	600	N/R	N/R	18,000	22,000	N/R		208-1-60	0.4	mitsubishi 1.5 TON SLIM CEILING CASSETTE	(A) (B) (C) (D) (E)

- NOTES:
- A. EQUIPPED WITH CONDENSATE PUMP DIRECTED TO NEAREST INDIRECT DRAIN
 - B. EQUIPPED WITH INTERNAL HONEYCOMB FILTER RACK
 - C. FIELD VERIFY REQUIRED SERVICE AND MAINTENANCE CLEARANCES
 - D. MOUNTED WITH SPRING ISOLATION DAMPERS
 - E. MANUFACTURER IS OR APPROVED EQUAL.

HEAT PUMP - OUTDOOR UNIT SCHEDULE												
EQUIPMENT NO.	SERVICE	HEATING CAPACITY (BTU/HR)	C.O.P.	COOLING CAPACITY (BTU/HR)	EER	ELECTRICAL VOLT.-PH.-CY.	REFRIG. PIPING LIQUID SIZING	REFRIG. PIPING VAPOR SIZING	MINIMUM CIRCUIT AMP	MAXIMUM FUSE SIZE	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES
1	FIELD HOUSE	135,000	4.01	120,000	13.2	208-3-60	3/4"	1-1/8"	47	70	10 TON MITSUBISHI QTR MILD LOW TEMP HEAT PUMP WITH HEAT RECOVERY	(A) (B) (C) (D) (E)

- NOTES:
- A. NEMA 3R RATED DISCONNECT
 - B. 300V CLASS
 - C. WIND BATTLES
 - D. WIND SHIELD
 - E. BRANCH BOX VERIFY REQUIREMENTS WITH MANUFACTURER
 - F. CENTRAL CONTROLS
 - G. MANUFACTURER IS OR APPROVED EQUAL.

11. GAS PIPING

- A. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON FITTINGS, WHERE GAS PIPE CONNECTS TO EQUIPMENT, IT SHALL BE PROVIDED WITH A DRIP LEG THE FULL SIZE OF THE RUNOUT, A 100% SHUT-OFF VALVE AND A UNION. GAS PIPING CONTAINING PRESSURE GREATER THAN 9" W.G. SHALL BE SCHEDULE 40 BLACK STEEL PIPE WITH WELDED JOINTS.

12. MISCELLANEOUS

- A. ALL EXTERIOR OPENINGS TO BE PROPERLY CAULKED AND SEALED WITH A SEALANT OF HIGH QUALITY AND LONG LIFE, TO PREVENT INFILTRATION OF OUTSIDE AIR INTO CONDITIONED SPACE.

- B. COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.

- C. DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.

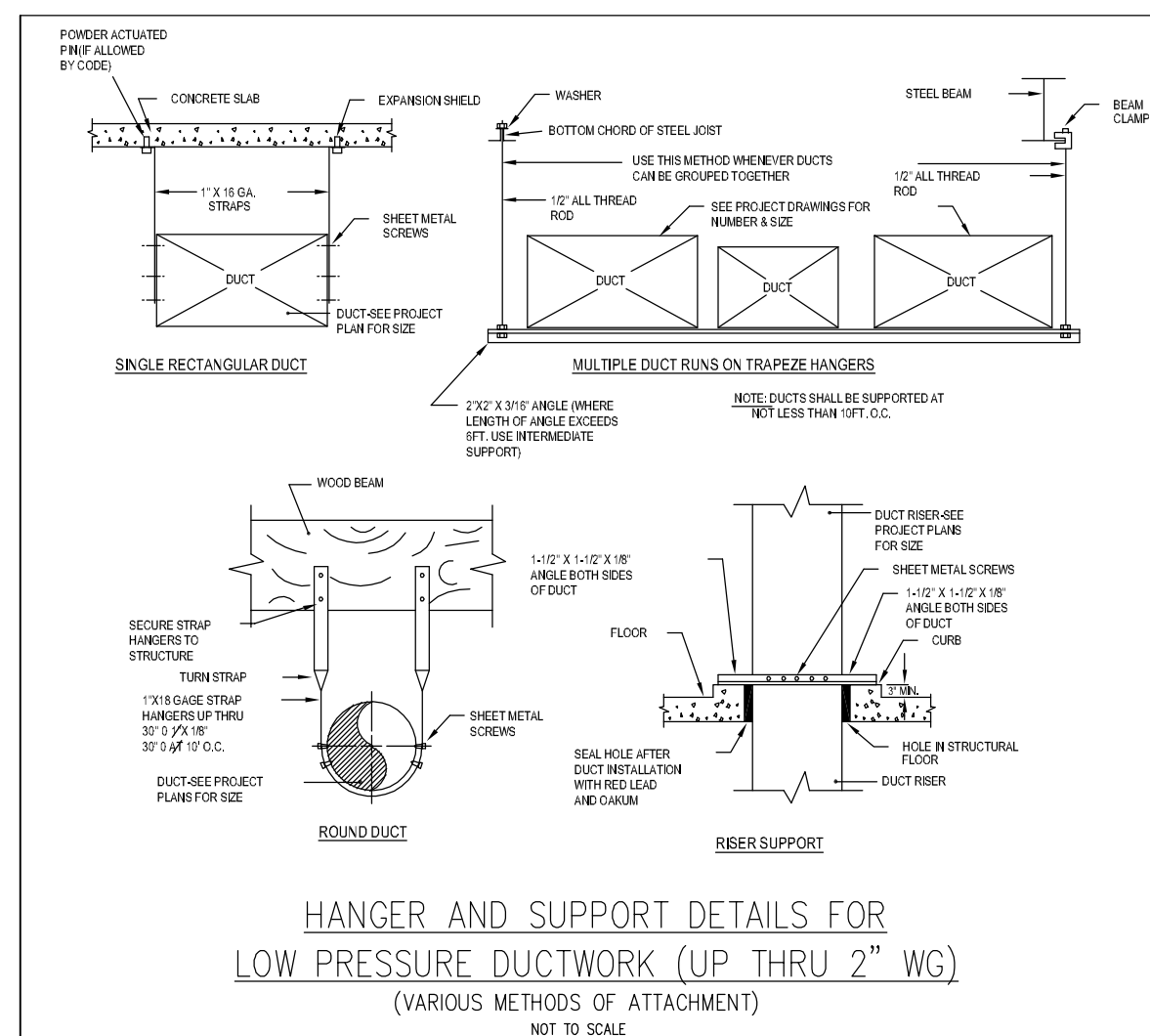
- D. THE MECHANICAL PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURER'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.

13. TESTING AND BALANCING

- A. THE HVAC SYSTEM SHALL BE TESTED AND BALANCED BY AN INDEPENDENT AGENCY, UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER. A SEALED TYPE WRITTEN REPORT SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.

14. GUARANTEE

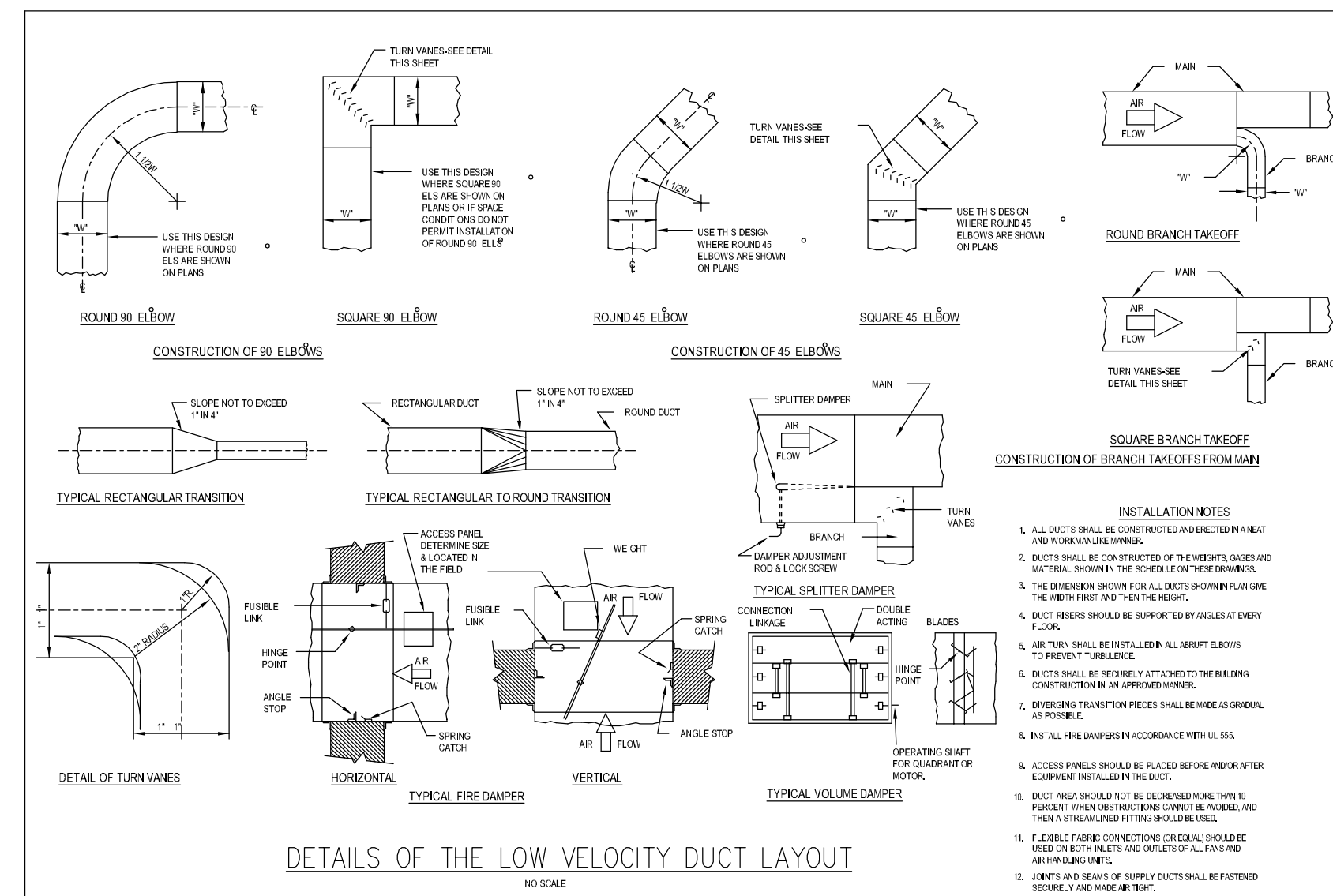
- A. MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE(1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
- B. FOR THE SAME PERIOD, THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.



HANGER AND SUPPORT DETAILS FOR LOW PRESSURE DUCTWORK (UP THRU 2" WG)
(VARIOUS METHODS OF ATTACHMENT)
NOT TO SCALE

ENERGY RECOVERY VENTILATOR SCHEDULE											
EQUIPMENT NO.	SERVICE	LOCATION	CFM	STATIC PRESS. (IN. W.G.)	WATTS	HP	FRM	VOLT.-PH.-CY.	MANUFACTURER & MODEL	OPTIONS-ACCESSORIES	
1	FIELD HOUSE	ABOVE CEILING	1,200	0.5	1,500			208-1-60	RENEWARE HE 1.5XIN ERV	(A) (B) (C) (D) (E) (F)	

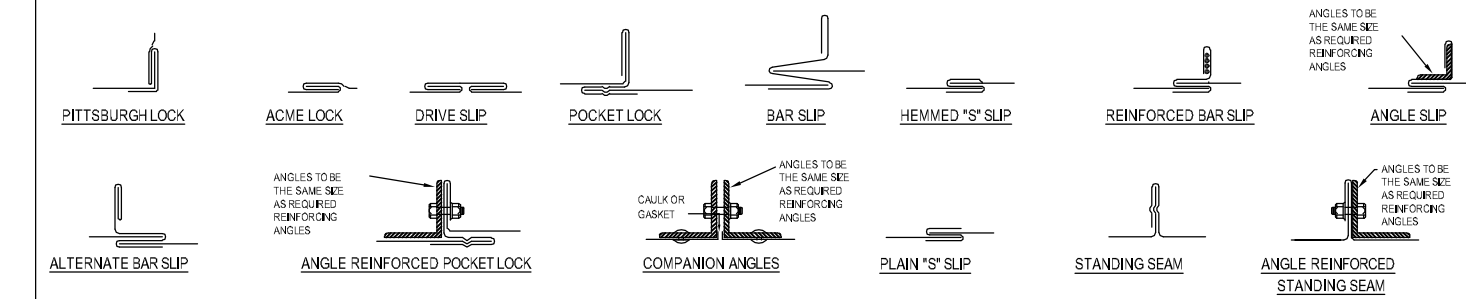
- NOTES:
- A. OUTSIDE AIR AND EXHAUST MOTORIZED DAMPERS
 - B. MERV 8 FILTERS
 - C. ECONOMIZER CONTROLS
 - D. MOUNTED ON SPRING ISOLATION DAMPERS
 - E. 7.5W DUCT HEATER
 - F. DIGITAL TIMECLOCK



THICKNESS & REINFORCING SCHEDULE - * LOW PRESSURE DUCTWORK

*NOTE: LOW PRESSURE DUCTWORK SHALL BE DUCTWORK IN WHICH THE PRESSURE DOES NOT EXCEED 2" WATER GAUGE.

DUCT SIZE	DUCT WALL THICKNESS	REINFORCEMENT	REINFORCING JOINT	REINFORCING JOINT	REINFORCING JOINT
12" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
18" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
24" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
30" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
36" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
42" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
48" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
54" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT
60" DIA	1/8"	ALUMINUM FOIL	WELDED JOINT	WELDED JOINT	WELDED JOINT

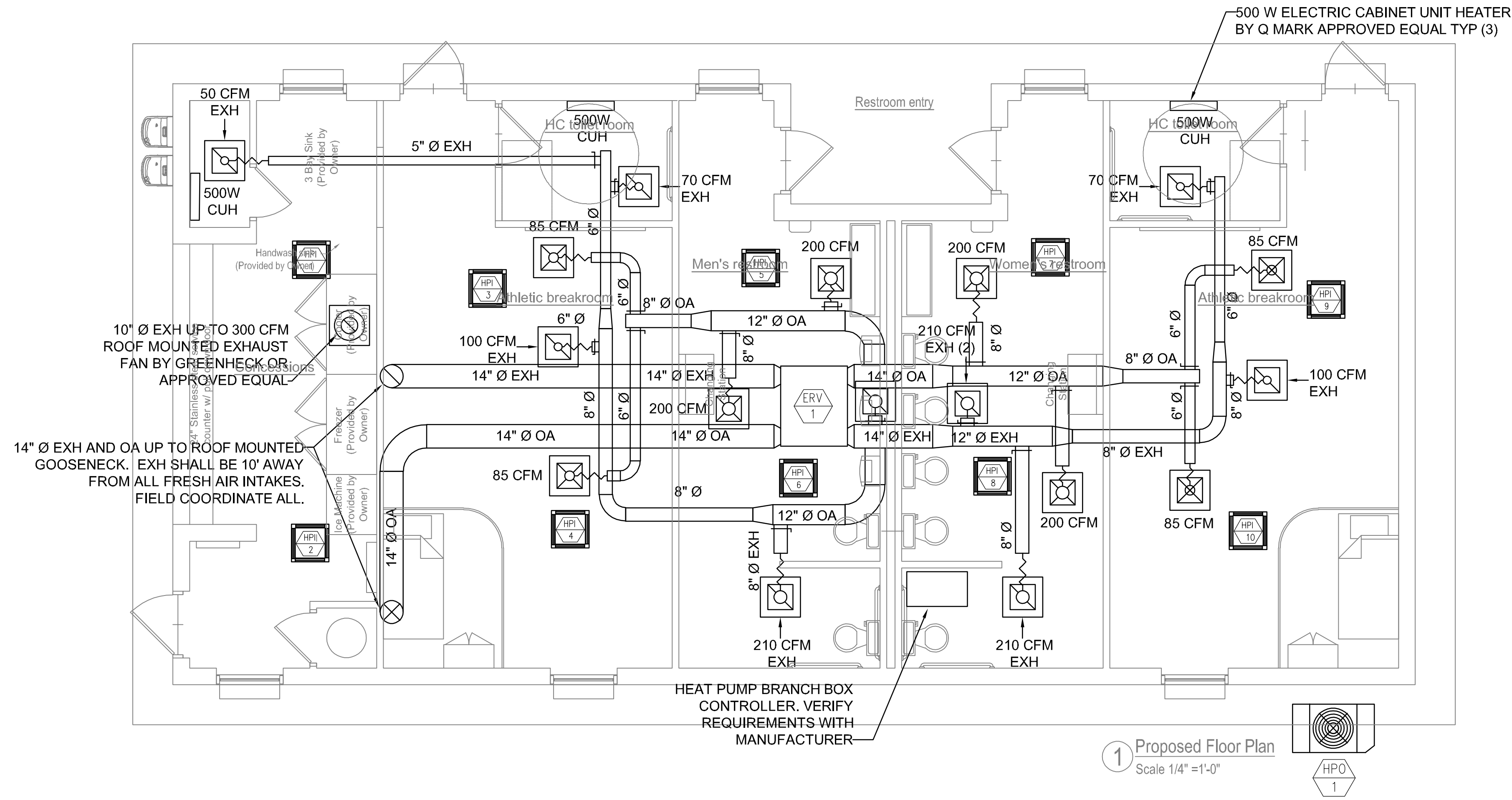


- NOTE:
- CONTRACTOR TO PROVIDE FULL SUBMITTAL PACKAGE FOR REVIEW BY CUMMINGS ENGINEERING BEFORE ORDERING EQUIPMENT.
 - COORDINATE ALL MECHANICAL EQUIPMENT AND DUCTWORK WITH STRUCTURAL MEMBERS, CEILING SYSTEMS AND OTHER TRADES.
 - VERIFY ALL VRF SYSTEM OUTDOOR UNIT, INDOOR UNIT BRANCH BOX AND PIPING REQUIREMENTS WITH SUPPLIER.
 - ALL VRF REFRIGERANT PIPING SHALL BE INSULATED PER MANUFACTURERS REQUIREMENTS AND INSTALLED IN PVC CONDUIT OR JACKETED.
 - ALL ABOVE CEILING DUCTWORK SHALL BE INSULATED WITH 1-1/2" FSK DUCT WRAP.
 - ALL FRESH AIR INTAKES SHALL BE A MINIMUM OF 10 FEET AWAY FROM EXHAUST FANS AND 25 FEET AWAY FROM PLUMBING VENTS.
 - ALL TAKE OFF SHALL BE EQUIPPED WITH BALANCING DAMPERS.
 - FLEXIBLE DUCTWORK SHALL NOT EXCEED 6 FEET IN LENGTH.
 - INSTALL CENTRAL VRF SYSTEM CONTROLLER AND COORDINATE ALL SYSTEM CONTROLS INCLUDING VRF BOXES, ERV'S AND DUCT HEATERS.
 - SYSTEM SHALL BE BALANCED BY AN INDEPENDENT BALANCING CONTRACTOR TO WITH 10% OF VALUES SHOWN.
 - CERTIFIED BALANCING REPORT SHALL BE SUBMITTED TO CUMMINGS ENGINEERING BEFORE FINAL SIGN OFF.

GRILLE - REGISTER - DIFFUSER SCHEDULE					
EQUIPMENT	SIZE	TYPE	MANUFACTURER & MODEL	FINISH	OPTIONS-ACCESSORIES
CEILING GRID SUPPLY	BASED ON VELOCITY UNDER 600 FPM	2X2 T BAR LAY IN	TITUS TMS	COORDINATE WITH ARCHITECT	WITH RAPID MOUNT FRAME IN HARD CEILING AREAS
CEILING RETURN	BASED ON VELOCITY UNDER 600 FPM	T BAR LAY IN	TITUS PAR	COORDINATE WITH ARCHITECT	DUCT COLLAR SEE DRAWING FOR SIZING
CEILING EXHAUST	BASED ON VELOCITY UNDER 600 FPM	T BAR LAY IN	TITUS 355FL	COORDINATE WITH ARCHITECT	WITH RAPID MOUNT FRAME IN HARD CEILING AREAS

- NOTES:
- (A) ALL RGD'S EQUIPPED WITH BALANCING DAMPERS.
 - (B) COORDINATE WITH ARCHITECTURAL CEILING PLAN FOR FINAL LOCATION AND BORDER TYPE
 - (C) SUBMIT COLOR CHART TO ARCHITECT FOR COLOR SELECTION
 - (D) MANUFACTURER IS OR APPROVED EQUAL.

savoie nolan ARCHITECTS LLC
 4 South Main Street - Ipswich, MA 01938 - 978-356-7786
 ISSUED FOR PRICING 04/15/2026
 Proposed New Construction: **IPSWICH FIELDHOUSE**
 135 High Street, Ipswich, MA
CUMMINGS ENGINEERING
 200 JEFFERSON ROAD, SUITE 201
 WILMINGTON, MA 01887
 (978) 658-2616
 Date: 08-28-2025 Scale: 1/4"=1'-0"
 Drawing Number
MO
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STAMP:
ISSUED FOR PRICING 04/15/2026

Proposed New Construction:
IPSWICH FIELDHOUSE
135 High Street, Ipswich, MA

CUMMINGS ENGINEERING
200 JEFFERSON ROAD, SUITE 201
WILMINGTON, MA 01887
(978) 658-2616

Date: 08-28-2025 Scale: 1/4"=1'-0"

Drawing Number

M1

NOTE:
THESE DRAWINGS ARE DIAGRAMATIC. ANY ISSUE WITH THE DESIGN, FIELD CONDITIONS, OR ANY OTHER ASPECT OF THE PROJECT SHALL BE BROUGHT TO THE ENGINEERS ATTENTION BEFORE BIDDING. ANY ISSUES NOT BROUGHT UP DURING BIDDING AND NEEDED FOR A COMPLETE SYSTEM SHALL BE INSTALLED AT THIS CONTRACTORS EXPENSE. NO CREDIT WILL BE GIVEN. ALL ISSUES SHALL BE SENT IN WRITING AND CONFIRMED RECEIVED BY THE ENGINEER AND ARCHITECT.

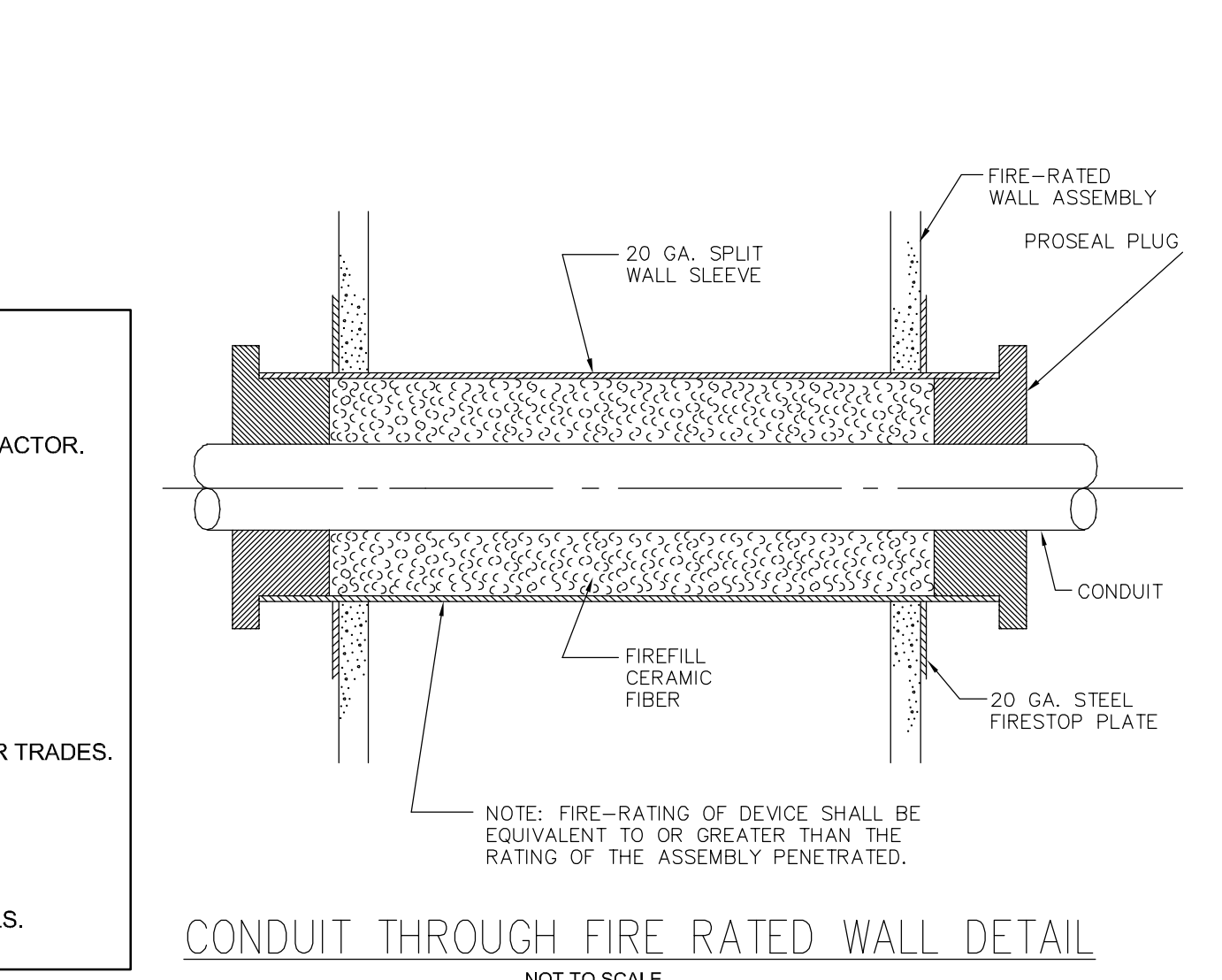
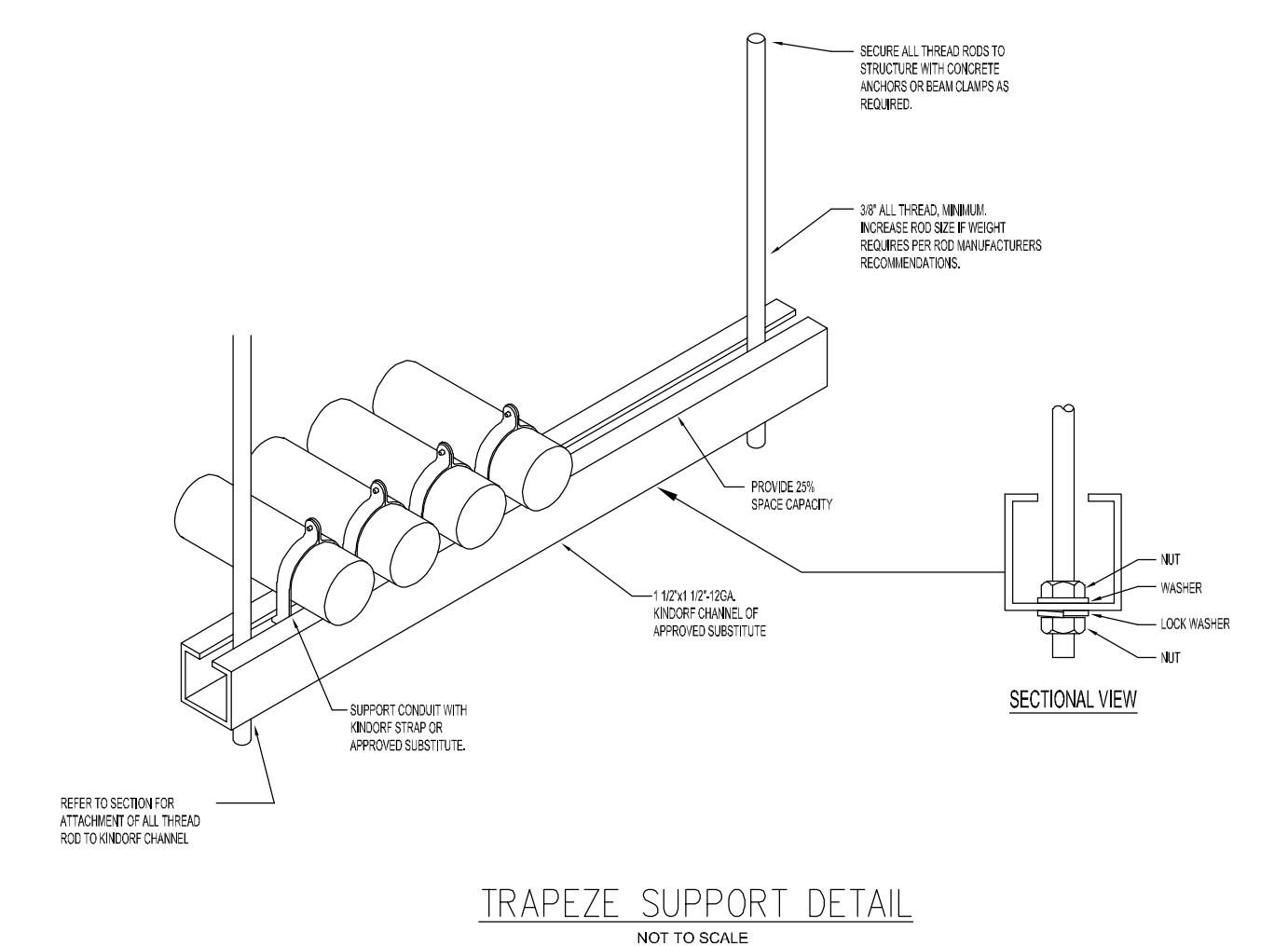
ELECTRICAL NOTES

- SCOPE OF WORK:**
 - CONTRACTOR SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL BE AS SUBMITTED ON BASIS OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.
 - TURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TOOLS TO PROPERLY COMPLETE WORK SHOWN, NOTED OR SCHEDULED FOR A COMPLETE AND FINISHED INSTALLATION.
 - MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE N.E.A. AND SUCH AS APPEAR ON THE UNDERWRITERS LABORATORIES LIST OF APPROVED ITEMS AND SHALL BE SIZED IN CONFORMANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES, WHICHEVER ARE MORE STRINGENT.
 - ALL WORK TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND ALL OTHER RELEVANT STATE AND LOCAL BUILDING CODES.
 - ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION PROCEDURES.
 - THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM, WHETHER SPECIFIED OR IMPLIED.
- PERMITS:**
 - SECURE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES.
- SHOP DRAWINGS:**
 - SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT FOR APPROVAL. SUBMITTALS SHALL BE IN ACCORDANCE WITH GENERAL CONDITIONS AND SHALL BEAR STAMP OF THE GENERAL CONTRACTOR SHOWING THAT HE HAS REVIEWED AND APPROVED THEM. LACK OF SUCH CONTRACTOR'S APPROVAL, ALL BE CAUSE FOR REJECTION WITHOUT RECUSE BY THE ARCHITECT OR ENGINEER.
 - SUBMIT SIX(6) SETS OF SHOP DRAWINGS.
- CONDUITS:**
 - THE TYPE OF CONDUIT SHALL BE AS FOLLOWS FOR ALL FEEDERS AND DISTRIBUTION CIRCUITS, UNLESS OTHERWISE SPECIFIED:

APPLICATION	TYPE OF CONDUIT
EMBED IN CONCRETE OR MASONRY, OR OUTDOORS	BLACK RIBBED STEEL OR EMT w/ A.P. FINISH
INDOOR	PVC - SCHED. 40
TRAY TO DISTRIBUTION PANELS	EMT
BRANCH CIRCUITS (CONDUIT)	PVC
BRANCH CIRCUITS (EXPOSED)	EMT
- WIRING:**
 - WIRING SHALL BE SINGLE CONDUCTOR COPPER WITH 90C WET INSULATION. #10 AND SMALLER SHALL BE SOLID. #8 AND LARGER SHALL BE STRANDED. MINIMUM WIRE SIZE SHALL BE #12 THRUOUT. WIRING SHALL BE USED FOR CONTROL. ALL WIRING SHALL BE N.E.A. AND SHALL BE BROUGHT TO THE SITE IN UNDERGROUND RACEWAYS. ALL WIRING OF ANY TYPE SHALL BE IN CONDUIT.
 - GENERAL WIRING SHALL BE THIN OR THIN (ALUMINUM CONDUCTORS ARE NOT PERMITTED).
 - WIRE CONDUCTORS SHALL BE EQUAL TO SCOTCH-LOCK FOR #8 AND SMALLER AND T & B LOCK-CLIP FOR #8 AND LARGER.
- LIGHTING:**
 - LIGHTING FIXTURES AND LAMPS (UNLESS NOTED OTHERWISE) SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL INSTALL ALL FIXTURES AND LAMPS.
- WIRE DEVICES:**
 - RECEPTACLES SHALL BE 20 AMP, 3-WIRE GROUNDING TYPE EQUAL TO CURRENT 8352 (VOLTING @ 157A-11).
 - SWITCHES SHALL BE STANDARD BRACK RATED 20 AMP AT 120 VOLT (VOLTING @ 157A-11) WITH MOTION SENSOR UNLESS OTHERWISE NOTED.
 - SPECIAL DEVICES SHALL BE A SPECIFICATION GRADE.
- SAFETY SWITCHES:**
 - PROVIDE SAFETY AND DISCONNECT SWITCHES, JUSTO OR NONJUSTO, AS CALLED FOR ON DRAWINGS AND AS REQUIRED BY CODE. SWITCHES SHALL BE HEAVY DUTY, LOAD AND HORSEPOWER RATED AS MANUFACTURED BY SQUARE D, GULLIT, ITC OR EQUAL.
 - VANJA MOTOR STARTERS WITH OVERLOAD PROTECTION MAY BE USED FOR FRACTIONAL HORSEPOWER MOTORS. SINGLE PHASE STARTERS SHALL BE SQUARE D OR EQUAL. THREE PHASE STARTERS SHALL BE PROVIDED WITH OVERLOAD DEVICES IN EACH PHASE. VANTHO MOTOR STARTERS SHALL BE USED FOR INTEGRAL HORSEPOWER MOTORS. COMBINATION STARTERS, WHEN USED, SHALL CONTAIN TURBLE SWITCHES.
- BOXES:**
 - OUTLET BOXES AND COVERS SHALL BE GALVANIZED, ONE-PIECE PRESSED STEEL, KNOCKOUT.
 - JUNCTION, PULL BOXES AND COVERS SHALL BE GALVANIZED STEEL, CODE GAUGE SIZE, SCRIBES.
- SERVICES:**
 - PROVIDE ELECTRICAL SERVICE AS SHOWN ON THE DRAWINGS. ALL WORK NOT SPECIFICALLY NOTED AS BEING BY THE OWNER OR POWER COMPANY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CLOSELY CO-ORDINATE ENTIRE INSTALLATION WITH OWNER AND POWER COMPANY AS REQUIRED.
- INSTALLATION:**
 - ALL ELECTRICAL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL, SUCH AS CHANNELS, BOSS, ETC., NECESSARY FOR THE INSTALLATION OF WORK AND SHALL BE FASTENED TO STEEL, CONCRETE OR WOOD, BUT NOT TO PIPING. ALL CONDUIT SHALL BE CONDUIT WHEREVER POSSIBLE. EXPOSED CONDUIT SHALL BE IN STRAIGHT LINES PARALLEL WITH OR AT RIGHT ANGLES TO CONDUIT LINES OR TRAYS AND SEPARATED AT LEAST 3 INCHES FROM RAISED LINES. WHEREVER THEY RUN ALONG SIDE OR ACROSS SUCH LINES, CONDUCTORS SHALL BE IN CONDUIT, DUCTS OR APPROVED RACEWAYS.
 - THE CONTRACTOR SHALL DO ALL CUTTING, CHASING OR CHANNELING AND PATCHING REQUIRED FOR ANY WORK UNDER THIS DIVISION. ANY CUTTING SHALL HAVE PRIOR APPROVAL OF OWNER. SLOTTES SHALL EXTEND AT LEAST TWO (2) INCHES ABOVE FINISHED FLOOR AND ALL SLOTTES, OPENINGS, ETC., THROUGH THE RATED WALLS AND FLOORS SHALL BE SEALED AFTER CONDUIT INSTALLATION TO RETAIN THEIR FIRE RATING.
 - THE FOLLOWING EQUIPMENT SHALL BE IDENTIFIED WITH ENGRAVED BACKLIT NAVY PLATES AS TO NAME AND/OR FUNCTION: DISTRIBUTION PANEL, LIGHTING PANEL, MOTOR STARTERS, TIME CLOCKS, AND DISCONNECT SWITCHES.
 - THE LOCATION OF OUTLETS AND EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE AND THE ARCHITECT SHALL HAVE THE RIGHT TO RE-LOCATE ANY OUTLETS OR FIXTURES BEFORE THEY ARE INSTALLED WITHOUT ADDITIONAL COST.
 - ELECTRICAL CONTRACTOR SHALL RECORD ALL FIELD CHANGES IN HIS WORK AS THE JOB PROGRESSES.
- GUARANTEE:**
 - MATERIALS, EQUIPMENT AND INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE. DEFECTS WHICH APPEAR DURING THAT PERIOD SHALL BE CORRECTED AT THIS CONTRACTOR'S EXPENSE.
 - FOR THE SAME PERIOD, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO PREMISES CAUSED BY DEFECTS IN WORKMANSHIP OR IN THE WORK OR EQUIPMENT FURNISHED AND/OR INSTALLED BY HIM.
- FINALS:**
 - IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETED IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED.

FEEDER CABLE SIZING SCHEDULE

CIRCUIT BREAKER RATINGS	NUMBER OF PHASES	VOLTAGE	CONDUCTOR			GROUND WIRE SIZE	CONDUIT SIZE
			SIZE PER PHASE OR NEUTRAL	NUMBER	INSULATION		
20	1	120	#12 AWG	2	THHN	#12 AWG	1 1/2"
	3	208	#12 AWG	3	THHN	#12 AWG	1 1/2"
	3	208	#12 AWG	4	THHN	#12 AWG	1 1/2"
30	1	120	#10 AWG	2	THHN	#10 AWG	1 1/2"
	3	208	#10 AWG	3	THHN	#10 AWG	1 1/2"
	3	208	#10 AWG	4	THHN	#10 AWG	1 1/2"
40	1	120	#8 AWG	2	THHN	#10 AWG	1"
	3	208	#8 AWG	3	THHN	#10 AWG	1"
	3	208	#8 AWG	4	THHN	#10 AWG	1"
50	1	120	#8 AWG	2	THHN	#10 AWG	1"
	3	208	#8 AWG	3	THHN	#10 AWG	1"
	3	208	#8 AWG	4	THHN	#10 AWG	1"
60	1	120	#8 AWG	2	THHN	#10 AWG	1"
	3	208	#8 AWG	3	THHN	#10 AWG	1 1/4"
	3	208	#8 AWG	4	THHN	#10 AWG	1 1/4"
70	1	120	#8 AWG	2	THHN	#10 AWG	1"
	3	208	#4 AWG	2	THHN	#10 AWG	1"
	3	208	#4 AWG	3	THHN	#10 AWG	1 1/4"
80	1	120	#8 AWG	2	THHN	#10 AWG	1"
	3	208	#4 AWG	2	THHN	#10 AWG	1"
	3	208	#4 AWG	3	THHN	#10 AWG	1 1/4"
90	1	120	#8 AWG	2	THHN	#10 AWG	1 1/4"
	3	208	#3 AWG	2	THHN	#10 AWG	1 1/4"
	3	208	#3 AWG	3	THHN	#10 AWG	1 1/2"
100	1	120	#8 AWG	2	THHN	#8 AWG	1 1/4"
	3	208	#3 AWG	2	THHN	#8 AWG	1 1/4"
	3	208	#3 AWG	3	THHN	#8 AWG	1 1/2"
200	1	120	#3 AWG	2	THHN	#6 AWG	1 1/2"
	3	208	#3 AWG	2	THHN	#6 AWG	1 1/2"
	3	208	#3 AWG	3	THHN	#6 AWG	2"



NOTE:

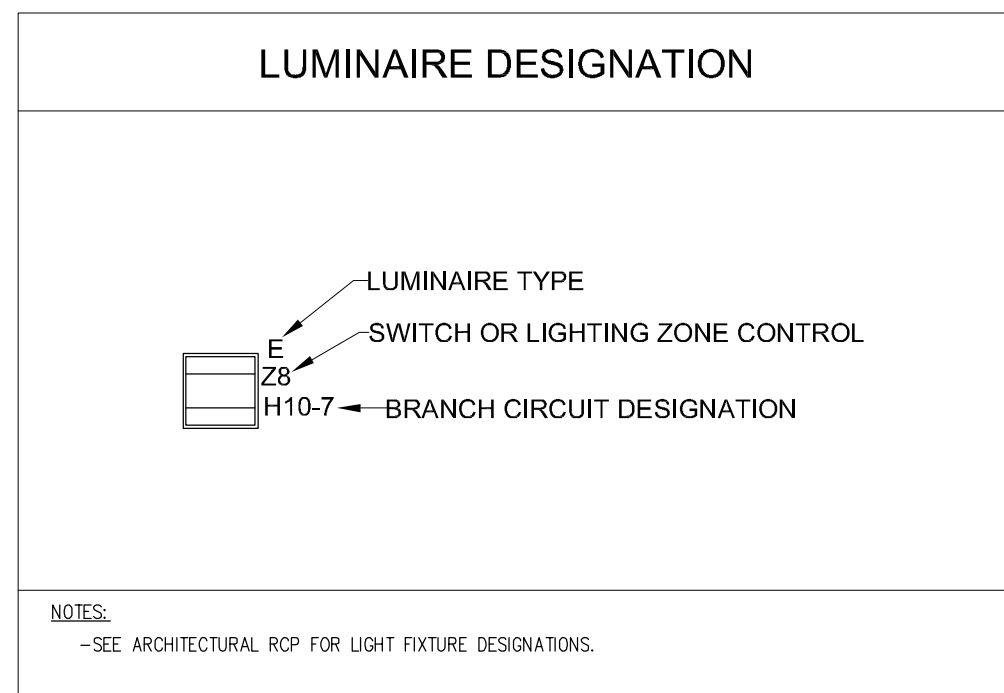
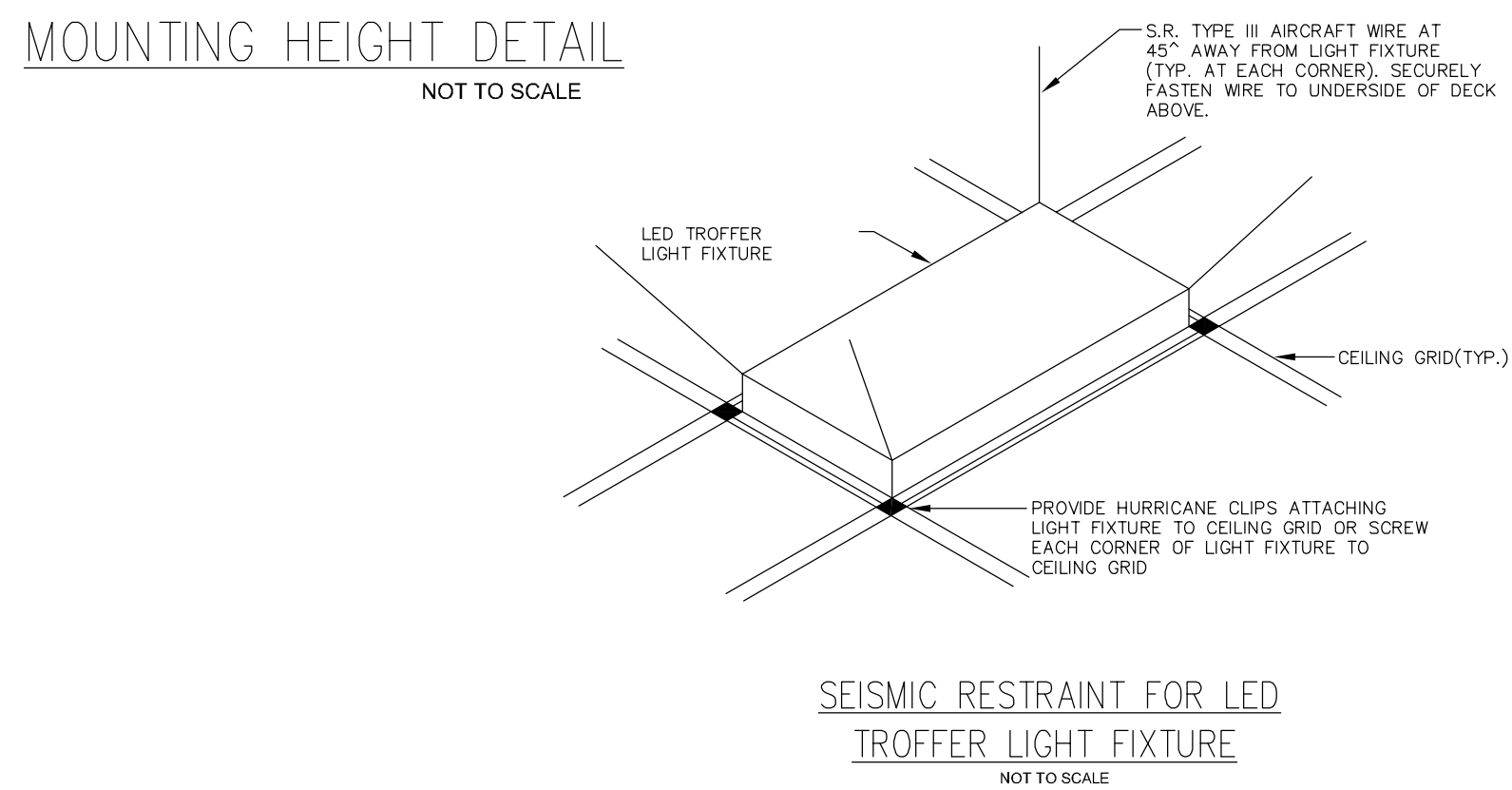
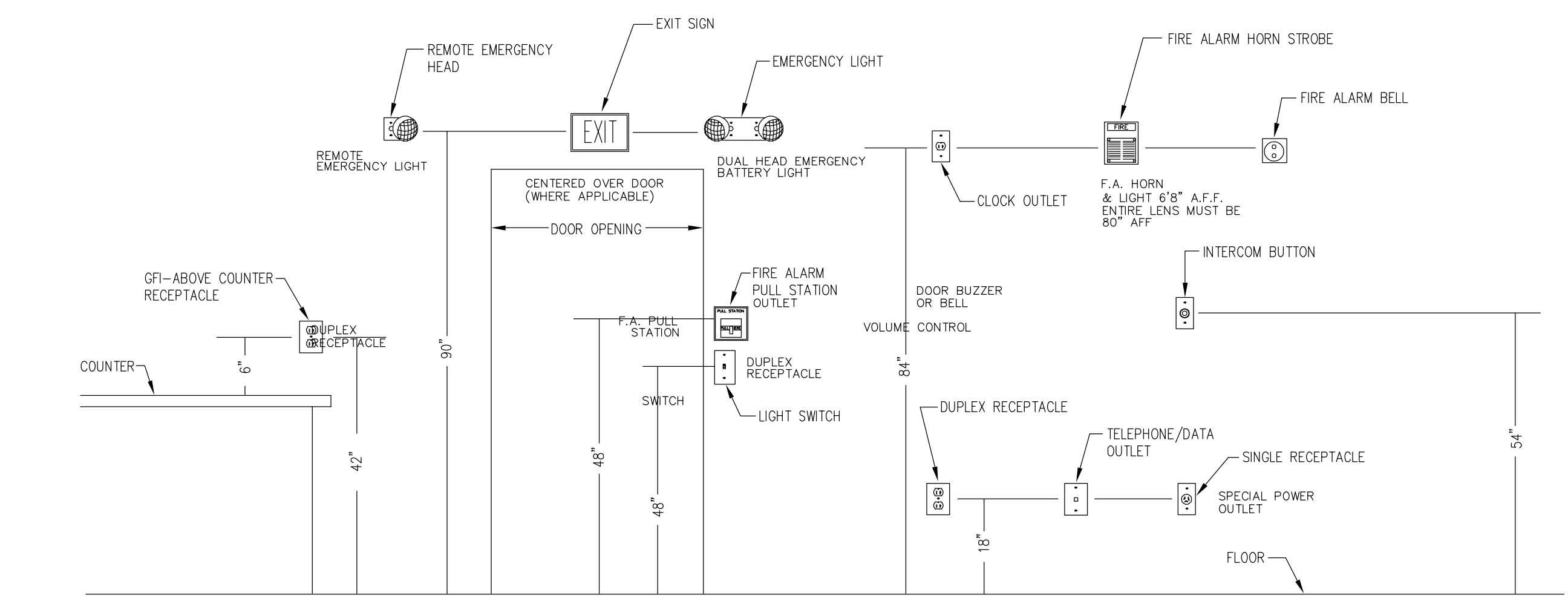
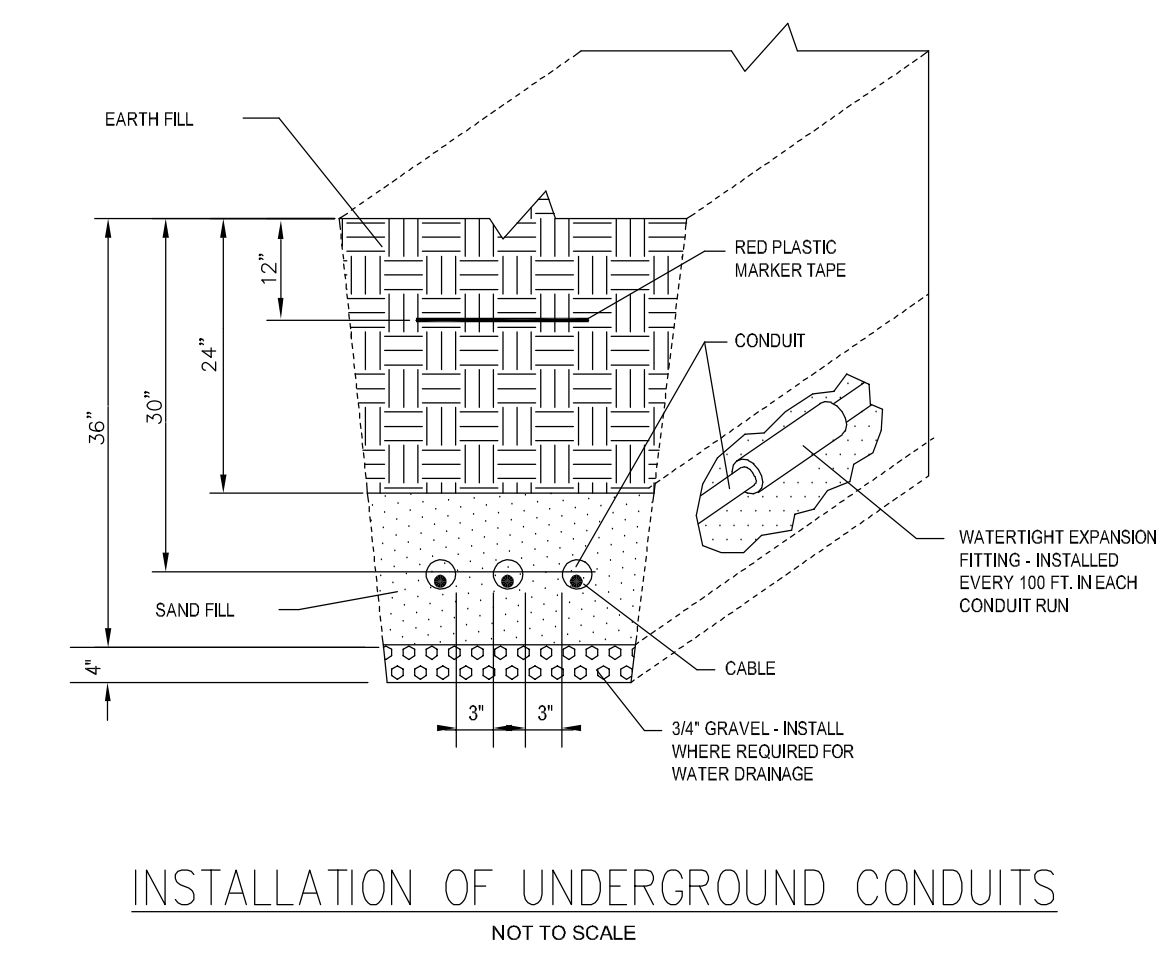
- CONTRACTOR TO VERIFY ALL EQUIPMENT REQUIREMENTS WITH TOWN AND SUPPLIERS.
- CONTRACTOR TO VERIFY ALL MECHANICAL EQUIPMENT POWER REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- CONTRACTOR TO PROVIDE FULL SUBMITTAL PACKAGE FOR REVIEW BY CUMMINGS ENGINEERING BEFORE ORDERING EQUIPMENT.
- ALL TELECOMM, DATA, SECURITY AND BUILDING MANAGEMENT SYSTEMS SHALL BE DESIGNED BY OTHERS.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR LIGHT FIXTURE TYPE AND QUANTITY.
- ALL LIGHT FIXTURES IN ATHLETIC ROOMS AND BATHROOMS SHALL BE VANDAL RESISTANT.
- COORDINATE ALL LIGHT FIXTURE LOCATIONS WITH BUILDING STRUCTURE, CEILING SYSTEM AND ALL OTHER TRADES.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND FULLY FUNCTIONAL LIGHTING CONTROL SYSTEM. REFER TO MANUFACTURERS RECOMMENDATIONS FOR EXACT TYPES AND QUANTITIES OF DEVICES TO BE PROVIDED FOR A COMPLETE SYSTEM.
- SEE EXTERIOR LIGHTING LAYOUT AND PHOTOMETRIC STUDY BY SITE CIVIL FOR EXTERIOR LIGHTING DETAILS.

PP-1A FIELD HOUSE POWER PANEL 200 AMPS AT 208 V 3 PHASE

BRK #	DESCRIPTION	BREAKER SIZE	BREAKER SIZE	DESCRIPTION	BRK #
1	ATHLETIC ROOM RECEPTACLES	20A@120	20A@120	ATHLETIC ROOM RECEPTACLES	2
3	BATHROOM GFI	20A@120	20A@120	BATHROOM GFI	4
5	BATHROOM GFI	20A@120	20A@120	BATHROOM GFI	6
7	HAND DRYER	20A@120	20A@120	HAND DRYER	8
9	HAND DRYER	20A@120	20A@120	HAND DRYER	10
11	JAN CLOSET GFI RECEPTACLE	20A@120	20A@120	ELECTRIC ROOM RECEPTACLE	12
13	CONCESSIONS GFI RECEPTACLE	20A@120	20A@120	CONCESSIONS GFI RECEPTACLE	14
15	CONCESSIONS GFI RECEPTACLE	20A@120	20A@120	CONCESSIONS GFI RECEPTACLE	16
17	CONCESSIONS GFI RECEPTACLE	20A@120	20A@120	CONCESSIONS GFI RECEPTACLE	18
19	CONCESSIONS GFI RECEPTACLE	20A@120	20A@120	CONCESSIONS GFI RECEPTACLE	20
21	ICE MACHINE VERIFY	20A@120	20A@120	COOLER	22
23	FREEZER	20A@120	20A@120	POS VERIFY	24
25	LIGHTING	20A@120	20A@120	LIGHTING	26
27	EXTERIOR LIGHTING	20A@120		SPARE	28
29	SPARE				30
31					32
33					34
35					36
37					38
39					40
41					42

PP-1B FIELD HOUSE EQUIPMENT PANEL 200 AMPS AT 208 V 3 PHASE

BRK #	DESCRIPTION	BREAKER SIZE	BREAKER SIZE	DESCRIPTION	BRK #
1	DRINKING FOUNTAIN	20A@120	20A@120	DRINKING FOUNTAIN	2
3	ELECTRIC HEAT	20A@120	20A@120	ELECTRIC HEAT	4
5	ELECTRIC HEAT	20A@120	20A@120	SPARE	6
7	HEAT PUMP DISTRIBUTION BOX	15A@208V 1φ	15A@208V 1φ	ERV	8
9					10
11					12
13	HEAT PUMP INDOOR UNITS	15A@208V 1φ	15A@208V 1φ	HEAT PUMP INDOOR UNITS	14
15					16
17	HEAT PUMP OUTDOOR UNITS	70A@208V 3φ	50A@208V 3φ	ELECTRIC WATER HEATER	18
19					20
21				SPARE	22
23	7.5 KW DUCT HEATER	30A@208V 3φ			24
25					26
27					28
29	SPARE				30
31					32
33					34
35					36
37					38
39					40
41					42



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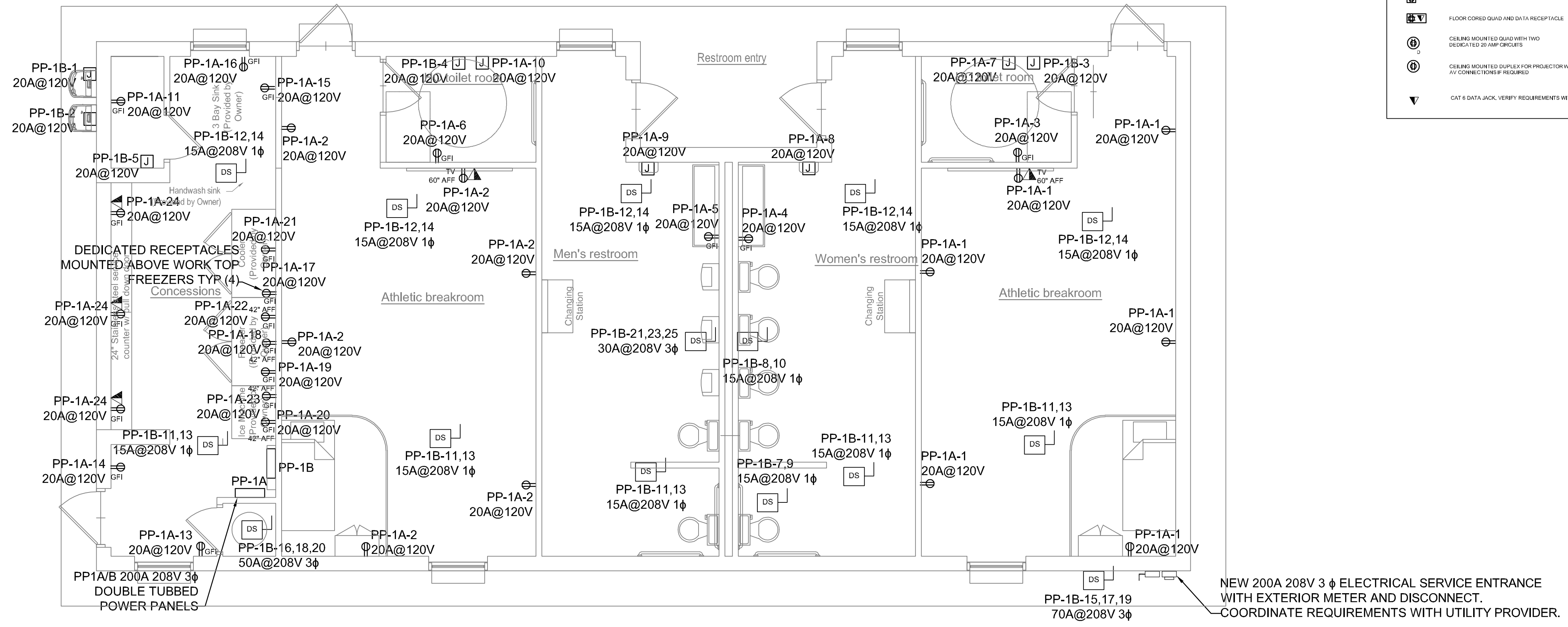
savoie nolan
ARCHITECTS LLC
4 South Main Street - Ipswich, MA 01938 - 978-356-7786

**Proposed New Construction:
IPSWICH
FIELDHOUSE**
135 High Street, Ipswich, MA

CUMMINGS ENGINEERING
200 JEFFERSON ROAD, SUITE 201
WILMINGTON, MA 01887
(978) 658-2616

Scale: 1/4"=1'-0"
Date: 08-28-2025
Drawing Number: **EO**

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LEGEND

	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	GFI DUPLEX RECEPTACLE WITH WATER PROOF COVER FOR EXTERIOR INSTALLATION
	WALL MOUNTED HIGH POWER RECEPTACLE, CONFIRM REQUIREMENTS WITH MANUFACTURER.
	WALL MOUNTED 3 WAY SWITCH WITH MOTION SENSOR AND DIMMING
	WALL MOUNTED SWITCH WITH MOTION SENSOR AND DIMMING
	CEILING MOUNTED MOTION SENSOR WITH SOUND ACTIVATION
	CEILING MOUNTED DAYLIGHT SENSOR
	CEILING OR WALL MOUNTED JUNCTION BOX
	DISCONNECT SWITCH
	FLOOR CORED DUPLEX RECEPTACLE
	FLOOR CORED QUAD AND DATA RECEPTACLE
	CEILING MOUNTED QUAD WITH TWO DEDICATED 20 AMP CIRCUITS
	CEILING MOUNTED DUPLEX FOR PROJECTION WITH ALL CONNECTIONS REQUIRED
	CAT 6 DATA JACK, VERIFY REQUIREMENTS WITH IT DEPARTMENT.

STAMP:
 ISSUED FOR PRICING 04/15/2026

Proposed New Construction:
IPSWICH FIELDHOUSE
 135 High Street, Ipswich, MA

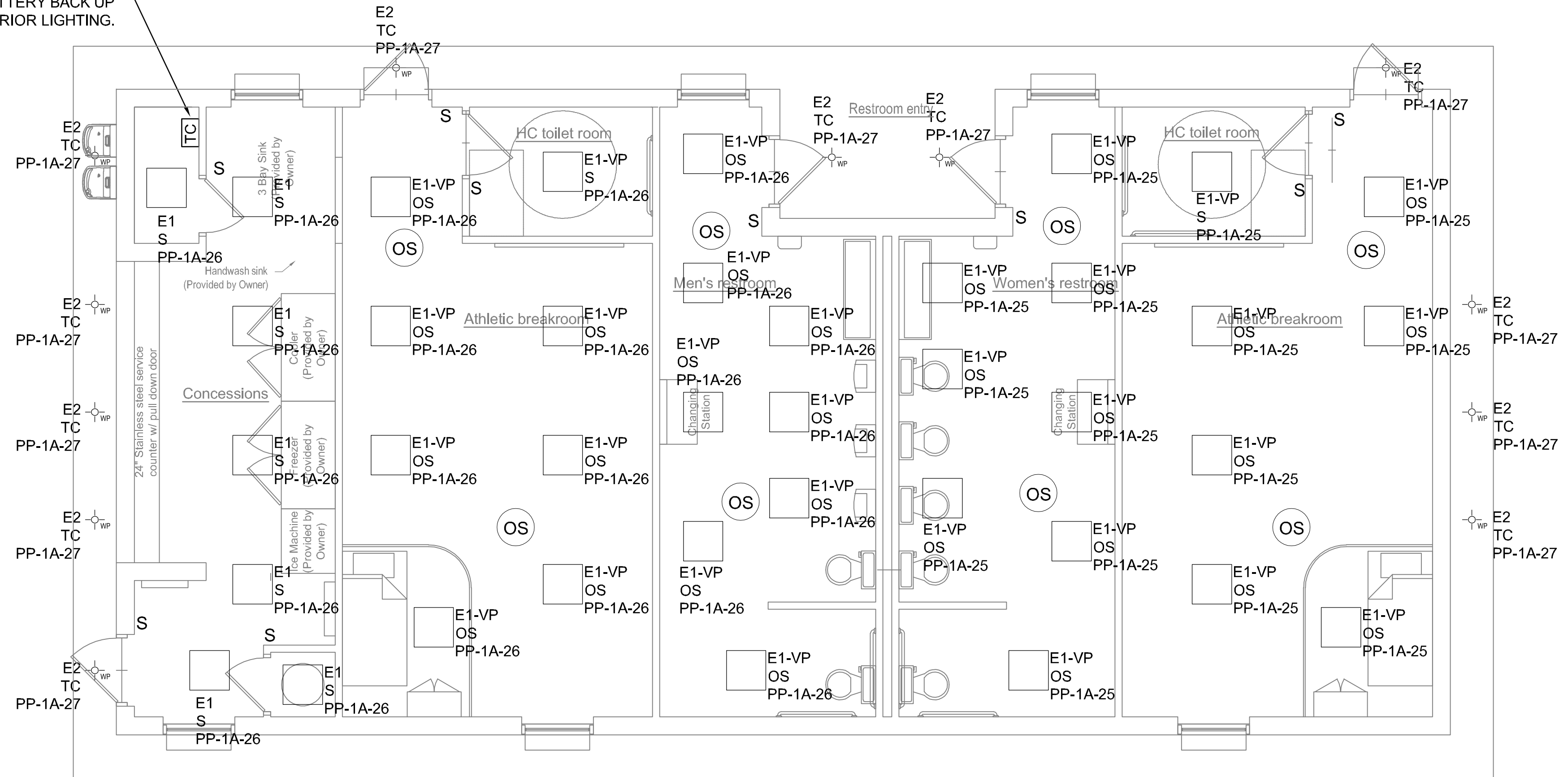
CUMMINGS ENGINEERING
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 Date: 08-28-2025 Scale: 1/4"=1'-0"

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E1

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ASTRONOMICAL TIME CLOCK WITH PHOTOCELL AND BATTERY BACK UP FOR EXTERIOR LIGHTING.



1 Proposed Floor Plan
Scale 1/4" = 1'-0"

LEGEND	
	DUPLEX RECEPTACLE
	QUAD RECEPTACLE
	GFI DUPLEX RECEPTACLE WITH WATER PROOF COVER FOR EXTERIOR INSTALLATION
	WALL MOUNTED HIGH POWER RECEPTACLE, CONFIRM REQUIREMENTS WITH MANUFACTURER.
	WALL MOUNTED 3 WAY SWITCH WITH MOTION SENSOR AND DIMMING
	WALL MOUNTED SWITCH WITH MOTION SENSOR AND DIMMING
	CEILING MOUNTED MOTION SENSOR WITH SOUND ACTIVATION
	CEILING MOUNTED DAYLIGHT SENSOR
	CEILING OR WALL MOUNTED JUNCTION BOX
	DISCONNECT SWITCH
	FLOOR CORED DUPLEX RECEPTACLE
	FLOOR CORED QUAD AND DATA RECEPTACLE
	CEILING MOUNTED QUAD WITH TWO DEDICATED 20 AMP BREAKERS
	CEILING MOUNTED DUPLEX FOR PROJECTOR WITH A/C CONNECTIONS & HOISTING
	CAT 6 DATA JACK, VERIFY REQUIREMENTS WITH IT DEPARTMENT.

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Proposed New Construction:
IPSWICH FIELDHOUSE
135 High Street, Ipswich, MA

CUMMINGS ENGINEERING
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Date: 08-28-2025 Scale: 1/4"=1'-0"

Drawing Number

E2

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FIRE DEPARTMENT NOTES

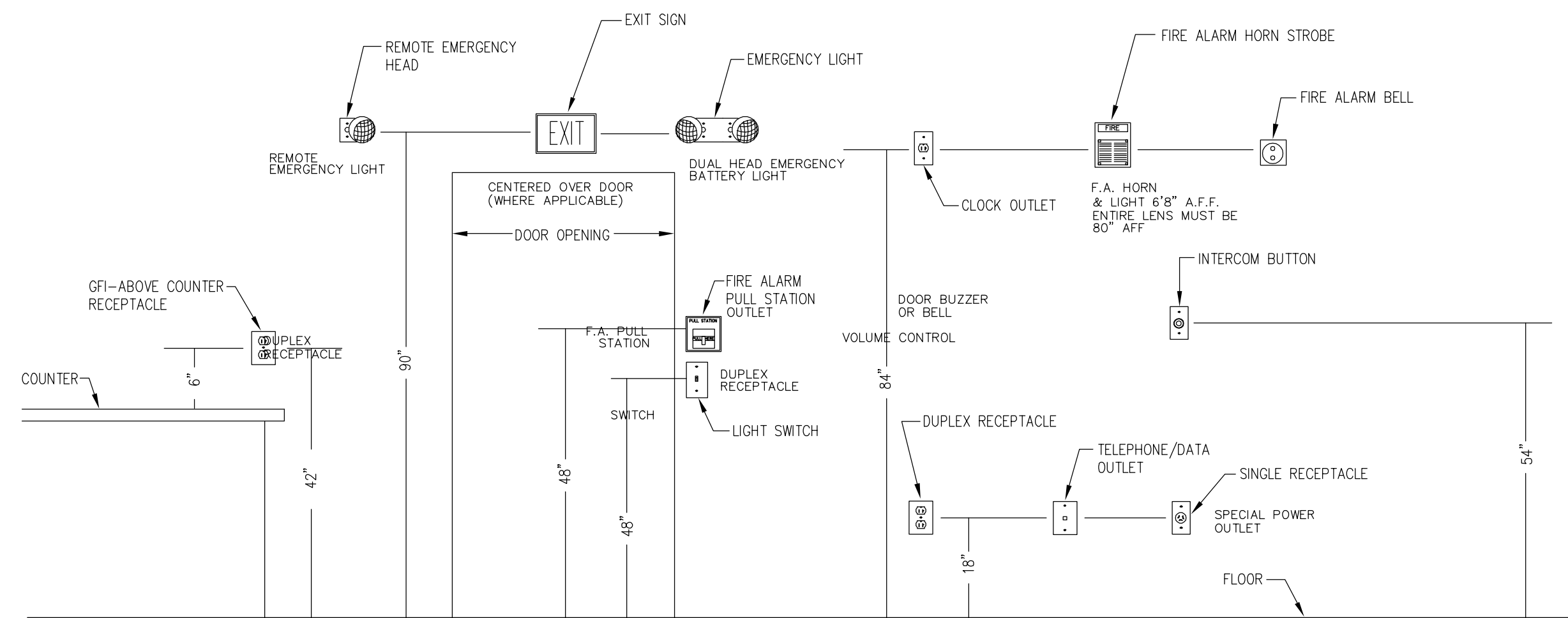
1. REFER TO FIRE PROTECTION NARRATIVE FOR FIRE ALARM NARRATIVE.
2. THE DOCUMENT SUBMITTAL PROCESS SHALL CONSIST OF THREE (3) TIERS AS REQUIRED BY THE MASSACHUSETTS STATE BUILDING CODE 10TH EDITION, SECTION 780 CMR 901.2.1.
 - a. **TIER ONE (CONSTRUCTION DOCUMENTS):** THESE CONSTRUCTION DOCUMENTS ARE BEING SUBMITTED IN ACCORDANCE WITH THE MASSACHUSETTS STATE BUILDING CODE. THE REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
 - a.a. FLOOR PLANS INDICATING THE USE OF ALL ROOMS.
 - a.b. LOCATIONS OF ALARM-INITIATING DEVICES.
 - a.c. LOCATIONS OF ALARM NOTIFICATION APPLIANCES, INCLUDING CANDELA RATINGS FOR VISIBLE ALARM NOTIFICATION APPLIANCES.
 - a.d. LOCATION OF FIRE ALARM CONTROL UNIT, TRANSPONDERS AND NOTIFICATION POWER SUPPLIES.
 - a.e. POWER SOURCE FOR ALL PANELS AND POWER SUPPLIES.
 - a.f. INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS SUCH AS DOOR UNLOCKING, SOUND SYSTEM SHUT-OFF AND ILLUMINATION TO 100% (WHERE REQUIRED)
 - b. **TIER TWO (SHOP DRAWINGS):** CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE BUILDING OFFICIAL AND FIRE OFFICIAL AND SHALL CONTAIN, BUT NOT BE LIMITED TO:
 - b.a. DETAILED DESIGN LAYOUT INCLUDING A NON-TYPICAL RISER
 - b.b. BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS.
 - b.c. MANUFACTURERS DATA SHEETS INDICATING MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES AND MATERIALS.
 - b.d. SYSTEM SEQUENCE OF OPERATION.
 - b.e. ANALYSIS TO SUBSTANTIATE THE DESIGN.
 - b.f. NAME(S), LICENSE NUMBER(S) AND LICENSE EXPIRATION DATE(S) OF THE CONTRACTOR(S) INSTALLING THE PROTECTION SYSTEMS.
 - b.g. DESIGN PROFESSIONALS SUBMITTAL REVIEW STAMP.
 - c. **TIER THREE (RECORD DRAWINGS):** CONTRACTOR SHALL PROVIDE AS BUILT PLANS TO THE BUILDING OWNER FOR ALL FIRE PROTECTION AND LIFE SAFETY SYSTEMS AND SHALL CONTAIN, BUT NOT BE LIMITED TO:
 - c.a. AS-BUILT PLANS INDICATING INSTALLED CONDITIONS, DEVICE ADDRESSES, FINAL TAP SETTINGS AND AUDIBLE AMBIENT AND TEST DB READINGS THROUGHOUT THE SPACE.
 - c.b. SYSTEM SEQUENCE OF OPERATION.
 - c.c. O&M MANUAL PER NFPA 72 REQUIREMENTS.
 - c.d. SYSTEM RECORD OF COMPLETION FORM PER NFPA 72.
 - c.e. SYSTEM RECORD OF INSPECTION AND TESTING FORM PER NFPA 72.

FIRE ALARM SYSTEM INSTALLATION NOTES

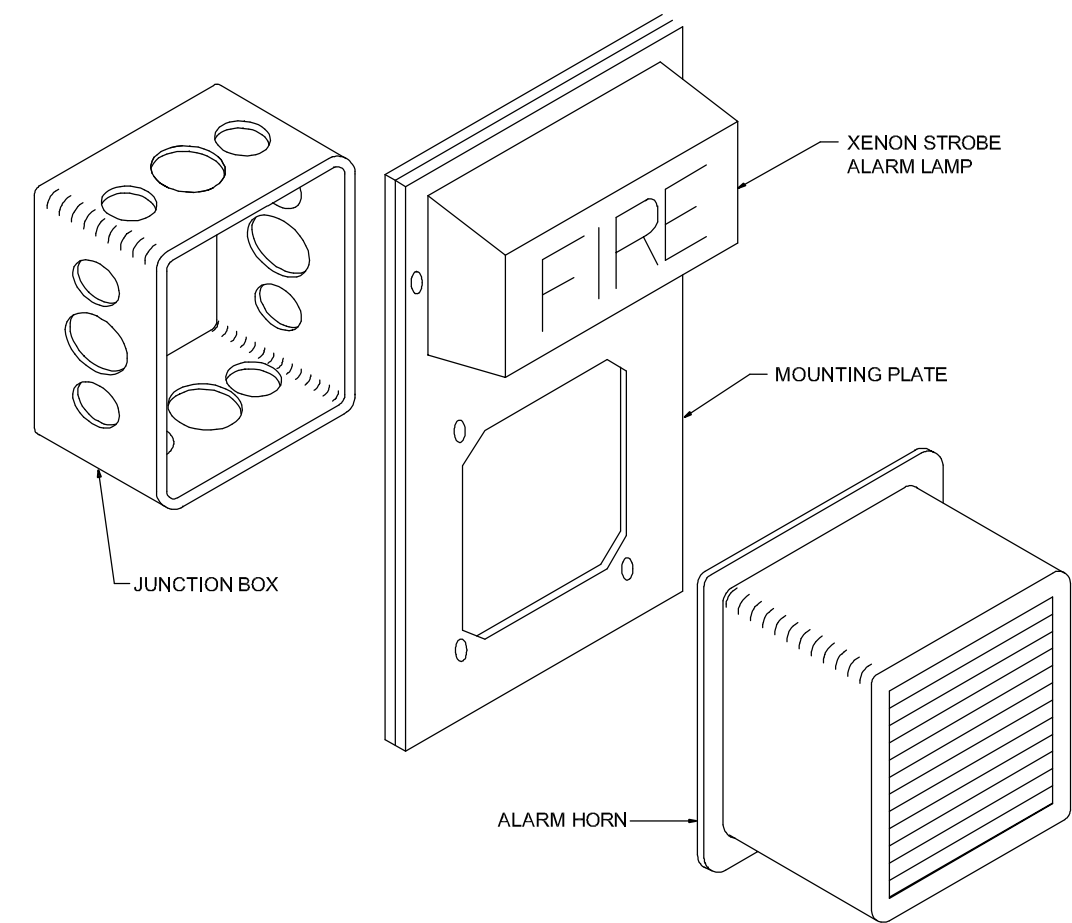
1. THE FIRE ALARM SYSTEM SHALL BE INSTALLED AS TO BE IN FULL COMPLIANCE WITH THE GUIDELINE FOR THE INSTALLATION OF FIRE ALARM SYSTEMS BY NFPA 72, ALL CODES, ORDINANCES, RULES, ORDERS AND OTHER LEGAL REQUIREMENTS OF THE CITY OF IPSWICH AND PUBLIC AUTHORITIES WHICH BEAR ON THE PERFORMANCE OF THIS WORK.
2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE FIRE ALARM SYSTEM COMPLETE AND OPERABLE AS SHOWN ON THE DRAWINGS. ANY ITEM OR SERVICE REQUIRED TO INSTALL, CONSTRUCT, STARTUP OR OPERATE THIS SYSTEM SHALL BE CONSIDERED TO BE INCLUDED IN THIS SCOPE OF WORK EVEN IF IT IS NOT SPECIFICALLY MENTIONED IN THE SPECIFICATIONS OR DRAWINGS.
3. FURNISH AND INSTALL AN ADDRESSABLE, NONCODED, CONTROL PANEL WITH STYLE A INITIATING DEVICE CIRCUITRY AND STYLE Y INITIATING APPLIANCE CIRCUITRY. BATTERY BACKUP OPERATION SHALL BE FOR A MINIMUM OF 60 HOURS WITH A FIFTEEN MINUTE RING DOWN AT THE END OF THE 60 HOUR PERIOD. PROVIDE A NAMEPLATE READING "FIRE ALARM CONTROL PANEL" ON THE FRONT. INSTALL FIRE DEPARTMENT LOCK AS REQUIRED, THE FIRE ALARM CONTROL PANEL SHALL NOT BE EQUIPPED WITH A "CITY DISCONNECT" SWITCH.
4. INSTALL 1/2" MINIMUM SIZE EMT CONDUIT WITH COUPLINGS AND EXPANSION JOINTS; CABLE WITHOUT CONDUIT IS PERMITTED WHERE INSTALLED NOT EXPOSED; ROUTE AS REQUIRED.
5. FIRE ALARM CABLE SHALL BE SOLID CONDUCTORS, STRANDED CONDUCTORS ARE NOT ACCEPTABLE.
6. FURNISH AND INSTALL END-OF-LINE RESISTORS AND CLEARLY MARK THE LOCATION OF THIS DEVICE.
7. BAG ALL SMOKE DETECTORS UNTIL THE FINAL FIRE DEPARTMENT INSPECTION.
8. FURNISH AND INSTALL NAMEPLATES IN ACCORDANCE WITH THE FIRE DEPARTMENT GUIDELINES.
9. FURNISH AND INSTALL THE FOLLOWING: PULL STATIONS - GAMEWELL 30652-02, SMOKE DETECTOR - GAMEWELL 70884, HEAT DETECTOR - GAMEWELL 50417, VOICE/LIGHT UNITS - GAMEWELL 7000 SERIES WITH 75 CANDELA STROBE & ADA REQUIRED STROBE ONLY - GAMEWELL LSM 75 CANDELA STROBE
 NOTE: THE ABOVE MANUFACTURER'S CATALOG NUMBERS INDICATE THE QUALITY REQUIRED ONLY FOR THE PROJECT. FURNISH AND INSTALL ONLY THE DEVICES RECOMMENDED BY THE FIRE ALARM CONTROL PANEL MANUFACTURER.
10. CONNECT DUCT SMOKE DETECTORS IN THE HVAC SYSTEM (FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR) TO ACTIVATE THE FIRE ALARM SYSTEM AND SHUTDOWN THE HVAC SYSTEM IN THE EVENT OF SMOKE IN THE DUCTS.
11. ALL FIRE ALARM SYSTEM COMPONENTS SHALL BE UL LISTED.
12. FURNISH AND INSTALL KNOX BOX (OR EQUAL), SIZE AND LOCATION AS DIRECTED BY THE FIRE DEPT.
13. A SPRINKLER SYSTEM IS TO BE INSTALLED, FURNISH AND INSTALL TAMPER AND FLOW SWITCHES ACCORDING TO THE REQUIREMENTS OF THE FIRE DEPARTMENT.
14. FURNISH AND INSTALL DUCT SMOKE DETECTOR TEST STATION IN CEILING TO SHOW LOCATION OF DETECTOR WHEN IN ALARM OR TROUBLE.
14. LOCATE THE SMOKE DETECTOR TEST STATIONS IN THE SAME LOCATION AS THE FIRE ALARM CONTROL PANEL OR AS DIRECTED BY THE FIRE DEPARTMENT.
15. FURNISH & INSTALL FIRE ALARM MASTER BOX OR AUTOMATIC DIALER AND UL LISTED CENTRAL MONITORING STATION ACCORDING TO THE REQUIREMENTS OF THE TOWN FIRE DEPARTMENT, WHEN USING CENTRAL MONITORING STATION INCLUDE ALL ASSOCIATED STARTUP FEES.

NOTE:

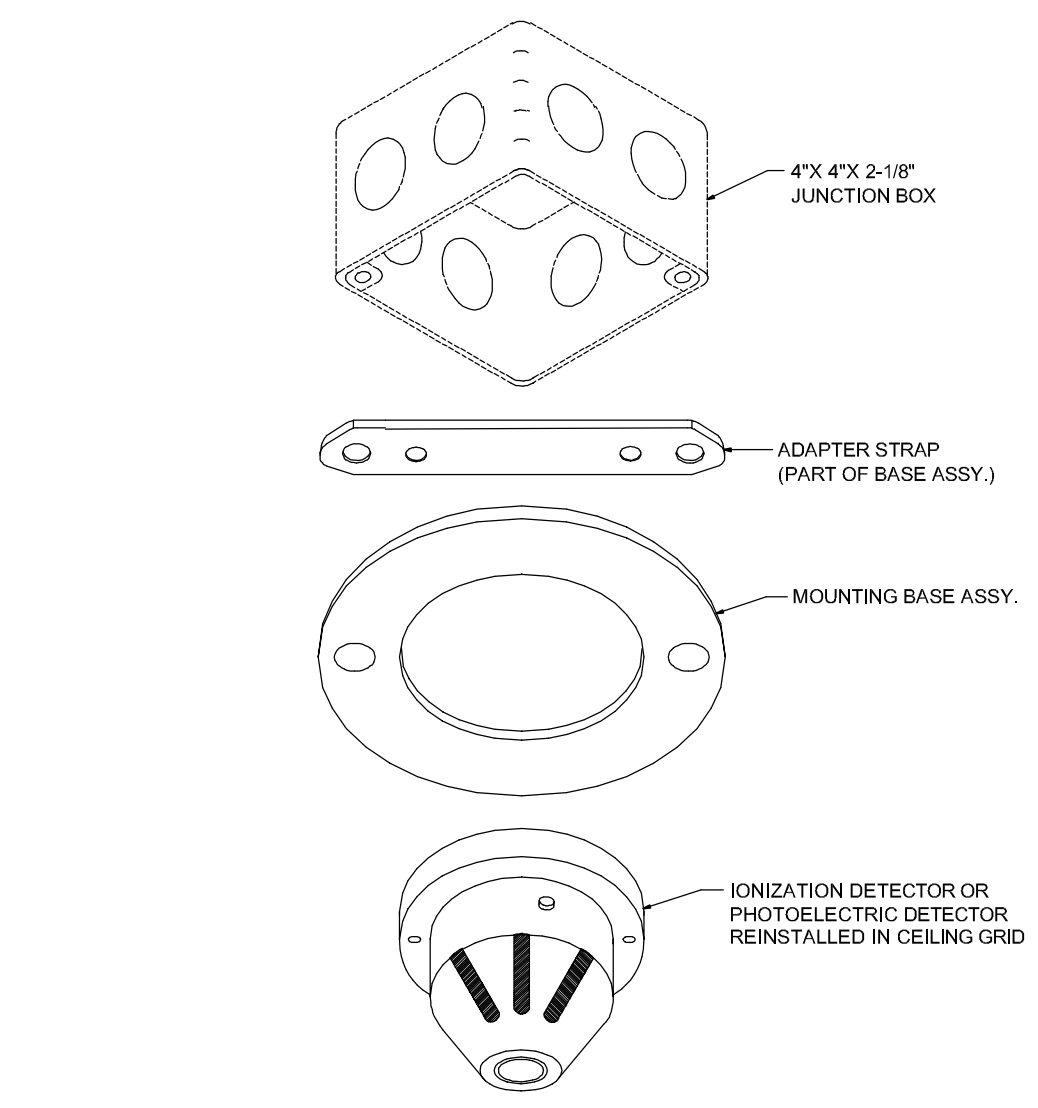
- FIELD COORDINATE ALL DEVICE LOCATIONS WITH BUILDING STRUCTURE AND ROOM LAYOUTS.
- VERIFY PREFERRED DEVICE COLOR AND MOUNTING STYLE WITH ARCHITECT.
- CONTRACTOR TO PROVIDE THEIR SHOP DRAWINGS, EQUIPMENT SUBMITTALS AND BATTERY CALCULATIONS TO CUMMINGS ENGINEERING FOR REVIEW AND APPROVAL BEFORE BEGINNING WORK.
- CONTRACTOR SHALL PROVIDE FIRE FIGHTER RADIO TESTING TO VERIFY BDA SYSTEM REQUIREMENT.



MOUNTING HEIGHT DETAIL
NOT TO SCALE



FIRE ALARM HORN/STROBE LIGHT MOUNTING DETAIL
NOT TO SCALE

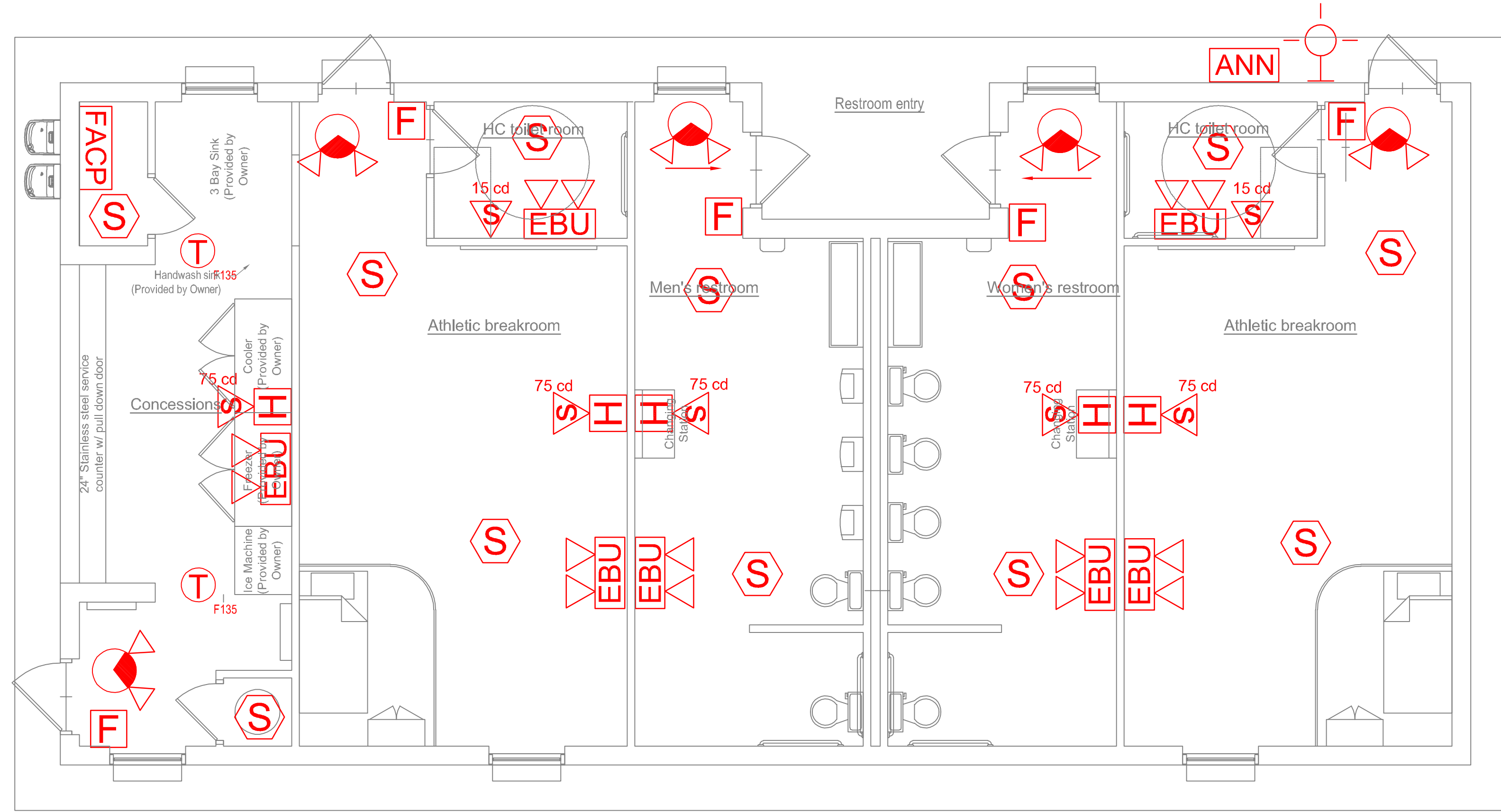


TYPICAL SMOKE DETECTOR MOUNTING DETAIL
NOT TO SCALE

System Inputs	System Outputs																																
	Control Unit							Annunciation							Notification							Required Fire Safety Control							Supplementary				
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG
1 Manual fire alarm boxes	•	•																															
2																																	
3																																	
4 Smoke detectors		•	•																														
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	
13																																	
14																																	
15 Heat detectors		•	•																														
16																																	
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22																																	
23																																	
24																																	
25																																	
26 Fire alarm ac power failure																																	
27 Fire alarm system low battery																																	
28 Open circuit																																	
29 Ground fault																																	
30 Notification appliance circuit short																																	

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1 Proposed Floor Plan
Scale 1/4" = 1'-0"

QTY	LEGEND
F	MANUAL PULL STATION
S	ANALOG PHOTOELECTRIC SMOKE DETECTOR
FS	FLOW SWITCH (FURNISHED BY OTHERS)
TS	TAMPER SWITCH (FURNISHED BY OTHERS)
MM	MONITORING MODULE
CM	CONTROL MODULE
ST	STROBE
H	HORN/STROBE
EBU	CEILING MOUNTED HORN/STROBE
DS	DUCT SMOKE
EBU	CEILING MOUNTED EXIT AND EMERGENCY LIGHT WITH 90 MIN BATTERY BACK-UP
EBU	WALL MOUNTED EMERGENCY LIGHT WITH 90 MIN BATTERY BACK-UP
EBU	CEILING MOUNTED EXIT WITH DIRECTION ARROW WITH 90 MIN BATTERY BACK-UP
ANN	REMOTE ANNUNCIATOR PANEL
FACP	ADDRESSABLE FIRE ALARM CONTROL PANEL
KB	KNOX BOX
MB	MASTER BOX
○	OUTSIDE BEACON

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CUMMINGS ENGINEERING
200 JEFFERSON ROAD, SUITE 201
WILMINGTON, MA 01887
(978) 658-2616

Date: 08-28-2025 Scale: 1/4" = 1'-0"

Drawing Number

FA1

PLUMBING NOTES

- SCOPE OF WORK**
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND LABOR TO SATISFY A COMPLETE WORKING SYSTEM WHETHER SPECIFIED OR IMPLIED.
 - ALL WORK IS TO BE PERFORMED IN STRICT COMPLIANCE WITH THE NATIONAL STANDARD PLUMBING CODE (LATEST EDITION), ALL LOCAL CODES, AND ALL OTHER REGULATIONS GOVERNING WORK OF THIS NATURE.
 - THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE PROPOSED SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
 - ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY ENGINEER OR ARCHITECT.
- PERMITS**
 - THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
- SHOP DRAWINGS**
 - SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT/FIXTURES TO THE ARCHITECT OR ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL SUBMIT THREE SETS OF SHOP DRAWINGS AND THEY SHALL BE CLEARLY LABELED.
- DOMESTIC WATER SUPPLY PIPING**
 - UNDERGROUND:** PROVIDE TYPE "K" SOFT DRAWN COPPER TUBING WITH BRAZED CONNECTIONS.
 - ABOVE CEILING:** PROVIDE TYPE "L" HARD DRAWN COPPER TUBING WITH 125 PSI SOLDER JOINTS, COPPER OR BRASS FITTINGS. ALL SOLDER TO BE "NO LEAD" TYPE.
 - BELOW CEILING:** PROVIDE STAINLESS STEEL TUBING WITH 125 PSI JOINTS, STAINLESS STEEL FITTINGS
 - ALL HOT WATER PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION.
 - ALL COLD WATER PIPING TO BE INSULATED WITH 1/2" FOAM INSULATION.
- SANITARY/STORM DRAINAGE AND VENT PIPING**
 - ABOVE GRADE:**
 - 2" AND BELOW: SCH. 40 GALV. STL. PIPE WITH SCREWED ENDS OR DWV COPPER WITH SOLDER JOINTS. ALL SOLDER TO BE "NO LEAD" TYPE.
 - 3" AND ABOVE: SERVICE WT. CAST IRON WITH NO-HUB OR BELL AND SPIGOT JOINTS; OR SCH. 40 PVC WITH SOLVENT JOINTS.
 - BELOW GRADE:** SERVICE WT. CAST IRON WITH BELL AND SPIGOT JOINTS OR NO-HUB
 - PVC PIPING SHALL NOT BE USED IN AIR PLENUM CEILINGS AND SHALL NOT CROSS FIRE RATED WALLS, CEILINGS, OR FLOORS.
 - DRAINAGE PIPING SHALL BE RUN AS STRAIGHT AS POSSIBLE AND SHALL HAVE LONG TURN FITTINGS.
 - DRAINAGE PIPING 3" SIZE AND SMALLER SHALL RUN AT A UNIFORM GRADE OF AT LEAST 1/4" PER FOOT, AND PIPING LARGER THAN 3" SHALL BE RUN AT A GRADE OF NO LESS THAN 1/8" PER FOOT.
 - ALL VENT PIPING SHALL BE SLOPED TO DRAIN BACK TO FIXTURES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FLASHING OF THE VENT PIPING RUN THROUGH THE ROOF.
- NATURAL GAS PIPING**
 - 11" OF WATER
 - 2-1/2" AND BELOW: SCH. 40 STL. PIPE WITH SCREWED ENDS OR MEGAPRESS COMPRESSION FITTINGS. PAINTED GREY AND LABELLED.
 - 3" AND ABOVE: SCH. 40 STL. PIPE WELDED OR FLANGED FITTINGS. PAINTED GREY AND LABELLED.
 - 5 PSI HIGH PRESSURE
 - ALL SIZES: SCH. 40 STL. PIPE WITH WELDED CONNECTIONS AND JOINTS PAINTED YELLOW AND LABELLED.

NOTE:

-CONTRACTOR TO PROVIDE FULL SUBMITTAL PACKAGE FOR REVIEW BY CUMMINGS ENGINEERING BEFORE ORDERING EQUIPMENT.

-COORDINATE ALL PLUMBING EQUIPMENT AND PIPING WITH STRUCTURAL MEMBERS, CEILING SYSTEM AND OTHER TRADES.

-COORDINATE ALL EQUIPMENT PLUMBING REQUIREMENTS WITH BUILDING.

-DUE TO RESTRICTIONS ON THE WATER SERVICE ENTRANCE SIZE BY THE TOWN WATER DEPARTMENT ALL TOILET SHALL BE TANK TYPE.

-ALL TANK TYPE TOILETS IN THE ATHLETIC ROOMS AND BATHROOMS SHALL BE EQUIPPED WITH LID LOCKING MECHANISM.

-SEE ARCHITECTURAL PLANS FOR PLUMBING FIXTURE TYPES AND QUANTITIES.

-PROVIDE HOSE BIBBS THROUGHOUT BUILDING. COORDINATE QUANTITY AND LOCATION WITH BUILDING OWNER.

-ALL WATER PIPING SHALL BE COPPER.

ALL SANITARY DRAINAGE PIPING SHALL BE CAST IRON.

-ALL HOT AND COLD WATER PIPING SHALL BE INSULATED.

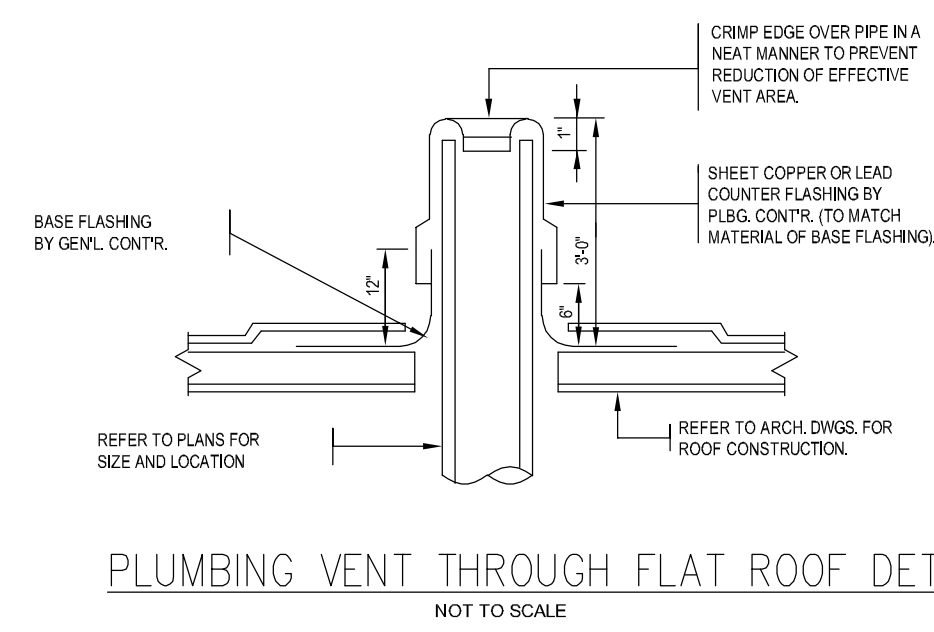
-BUILDING STORM DRAINAGE IS THROUGH SCUPPERS AND DOWNSPOUTS BY OTHERS.

-ALL PIPING 2" AND LARGER SHALL INSTALLED WITH SEISMIC BRACING.

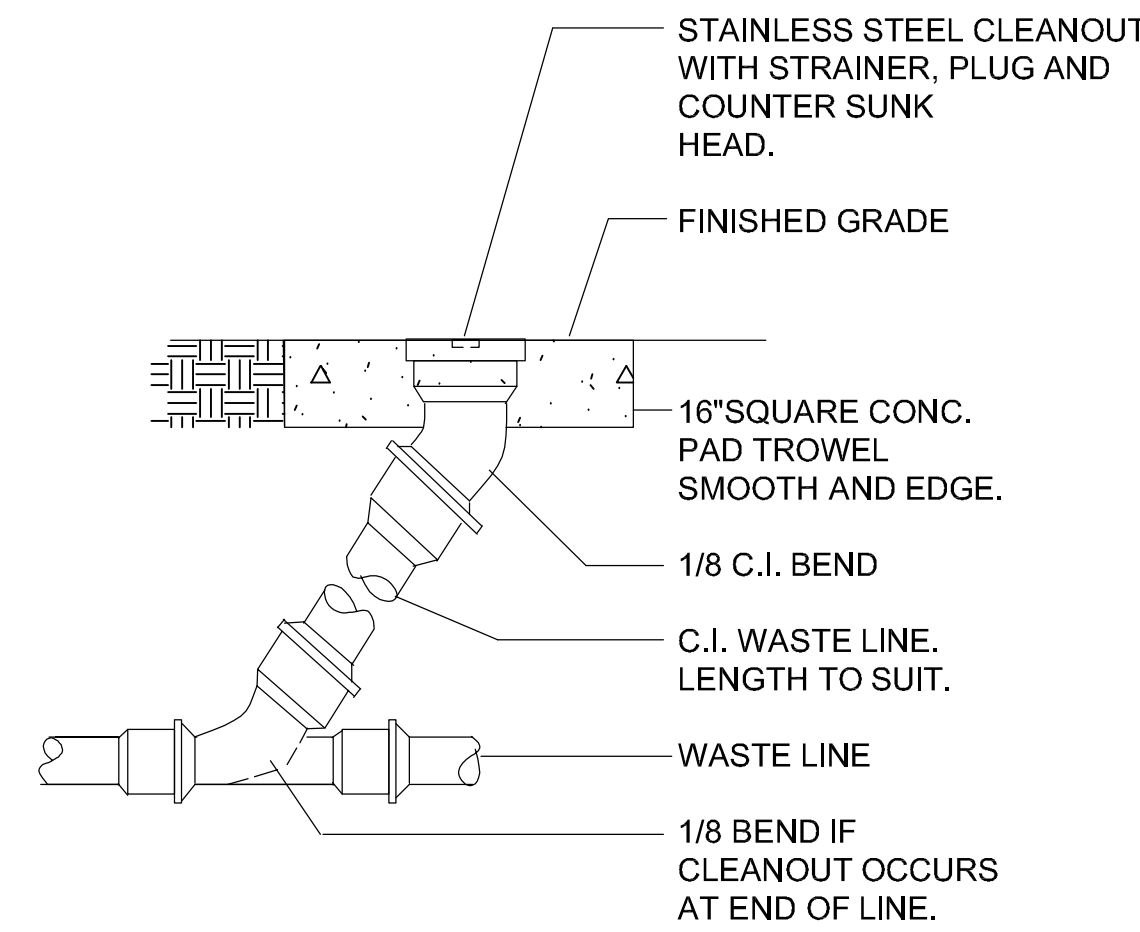
-ALL UTILITY AND PROCESS EQUIPMENT AND PIPING SHALL BE BY OTHERS.

PIPE SUPPORTS

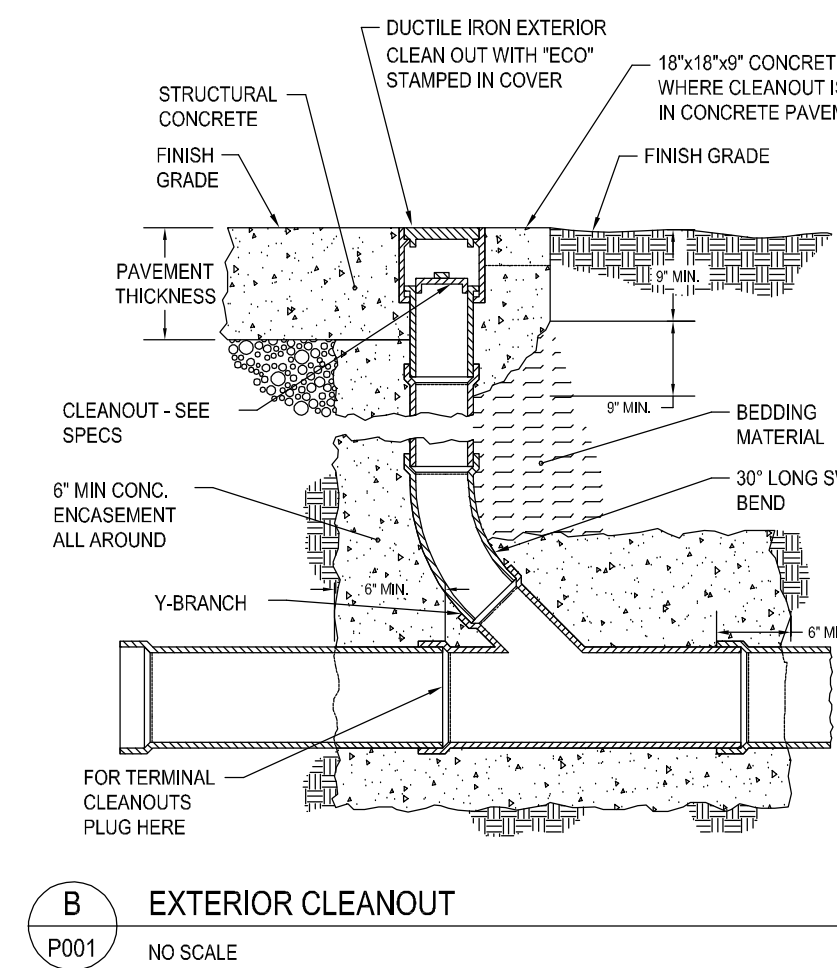
- ABOVE GRADE**
ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. THE USE OF WIRE AND PERFORMED METAL TO SUPPORT PIPES WILL NOT BE PERMITTED. SPACING OF PIPE SUPPORTS SHALL BE AS SPECIFIED IN CHAPTER 8 OF THE NATIONAL STANDARD PLUMBING CODE.
 - BELOW GRADE**
EARTH SHALL BE EXCAVATED TO A MINIMUM DEPTH WITH AN EVEN SURFACE TO INSURE SOLID BEARING OF PIPE FOR ITS ENTIRE LENGTH.
 - INTERIOR: THE PIPE SHALL BE INSTALLED (UNLESS OTHERWISE SPECIFIED) A MINIMUM OF 4 INCHES BELOW THE BOTTOM OF THE SLAB AND SHALL NOT BE IN ANY DIRECT CONTACT WITH THE CONCRETE AT ANY POINT.
 - EXTERIOR: THE WATER PIPE SHALL HAVE A MINIMUM OF 42" OF COVER AND THE SANITARY WASTE PIPE SHALL HAVE A MINIMUM OF 24" OF COVER.
- MISCELLANEOUS**
 - COORDINATE INSTALLATION OF ALL ROOF FLASHING AT ROOF PENETRATION.
 - DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE.
 - THE PLUMBING PLANS ARE INTENDED TO BE DIAGRAMMATIC AND ARE BASED ON ONE MANUFACTURE'S EQUIPMENT. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION, THE EXACT DIMENSIONS, OR ALL THE DETAILS OF THE EQUIPMENT. THE CONTRACTOR SHALL VERIFY THE ACTUAL DIMENSIONS OF THE EQUIPMENT PROPOSED TO ENSURE THAT THE EQUIPMENT WILL FIT IN THE AVAILABLE SPACE.



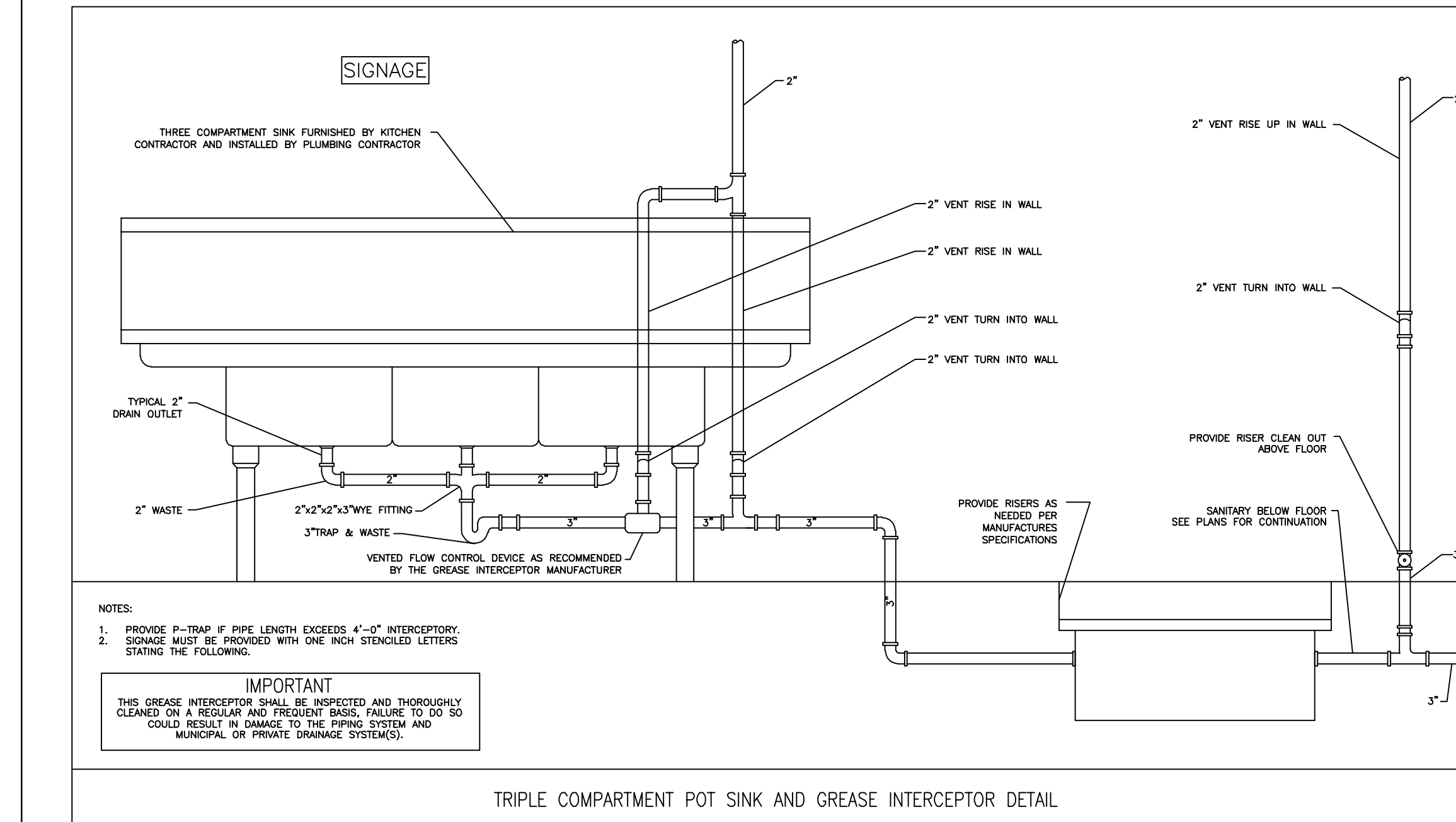
PLUMBING VENT THROUGH FLAT ROOF DETAIL
NOT TO SCALE



FLOOR CLEANOUT
NOT TO SCALE

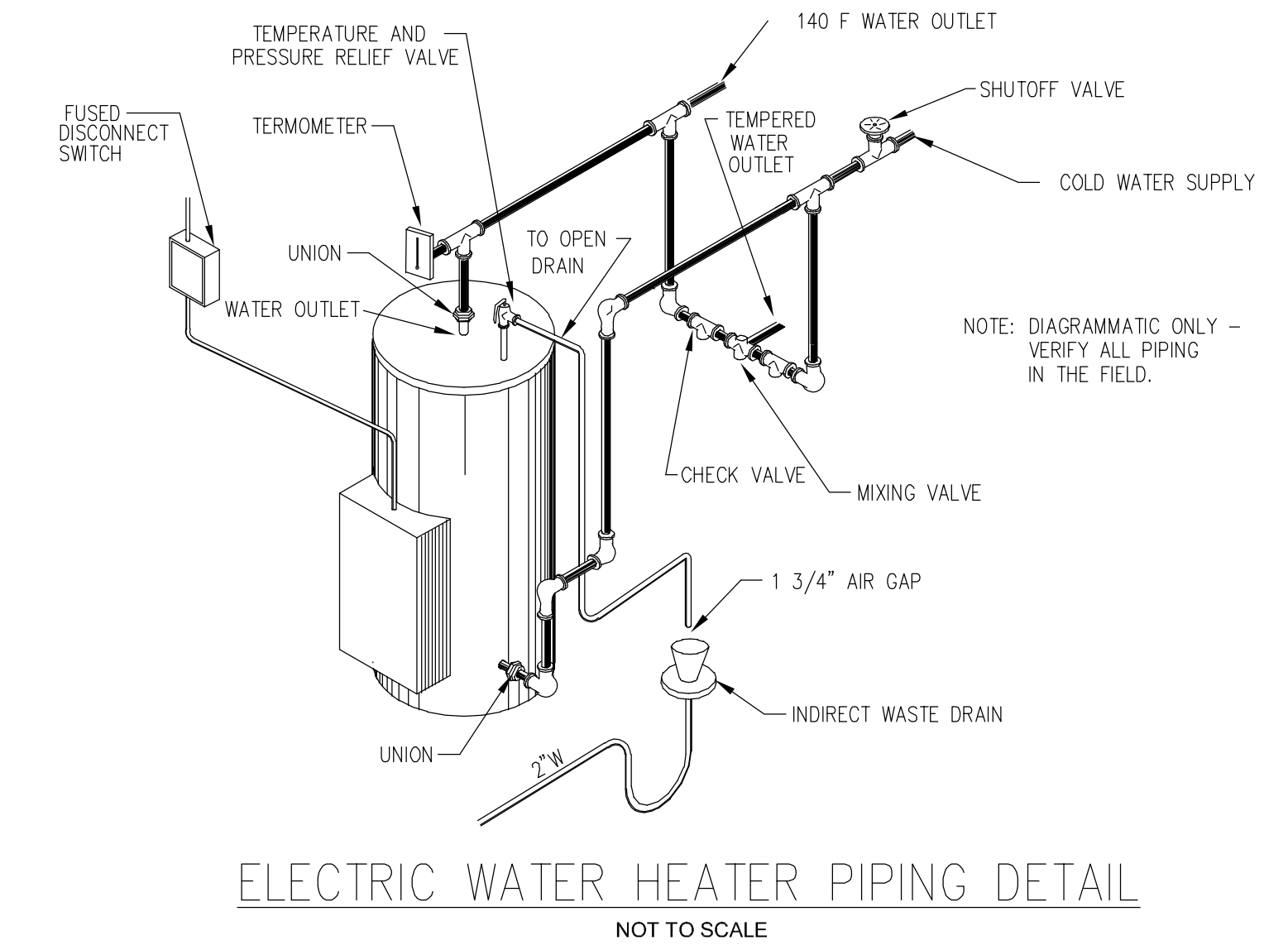


EXTERIOR CLEANOUT
NO SCALE

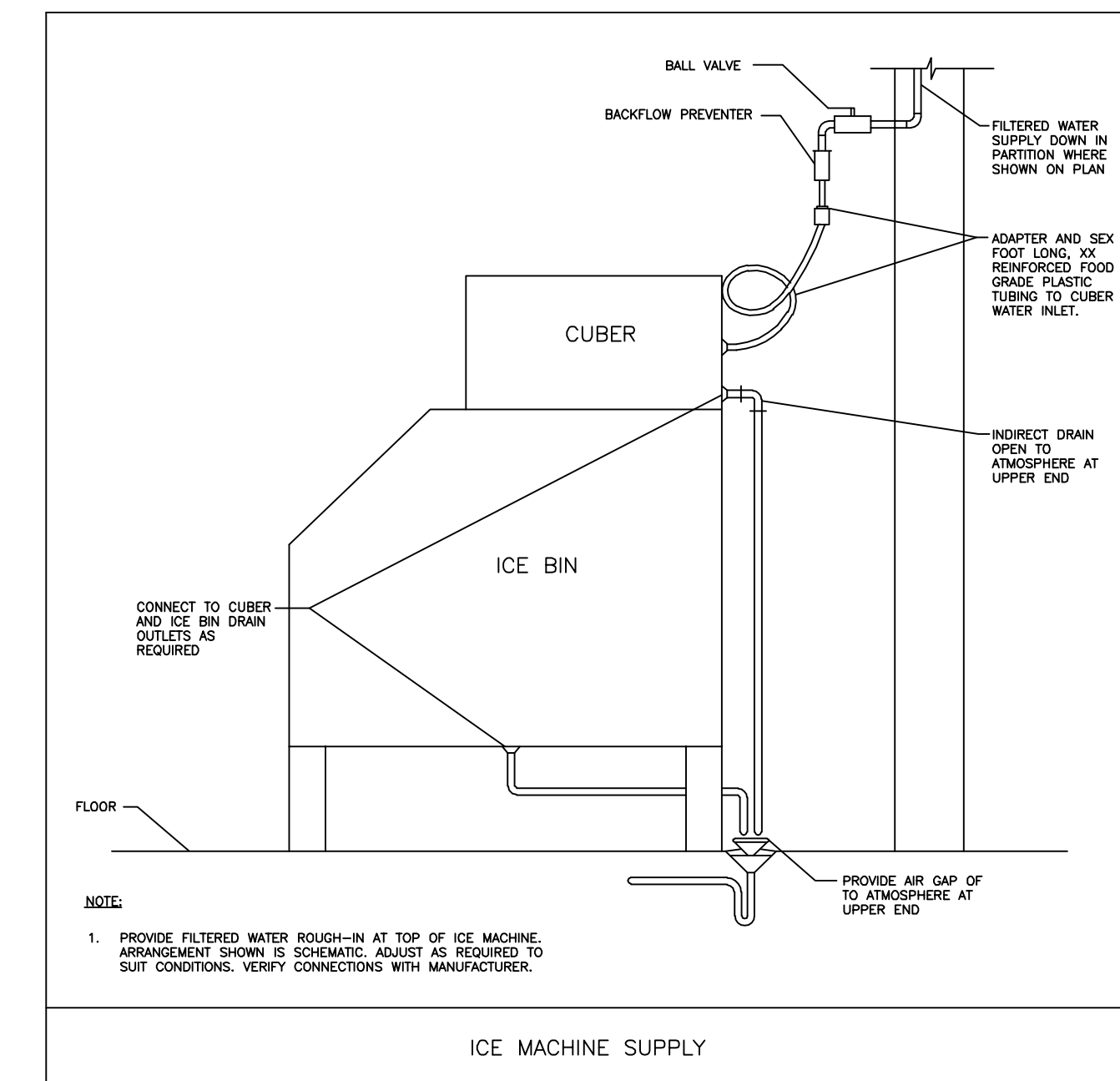


NOTES:
1. PROVIDE P-TRAP IF PIPE LENGTH EXCEEDS 4'-0" INTERCEPTOR.
2. SIGNAGE MUST BE PROVIDED WITH ONE INCH STENCILED LETTERS READING THE FOLLOWING:
IMPORTANT
THIS GREASE INTERCEPTOR SHALL BE INSPECTED AND THOROUGHLY CLEANED ON A REGULAR AND FREQUENT BASIS, FAILURE TO DO SO COULD RESULT IN DAMAGE TO THE PIPING SYSTEM AND MUNICIPAL OR PRIVATE DRAINAGE SYSTEM(S).

TRIPLE COMPARTMENT POT SINK AND GREASE INTERCEPTOR DETAIL

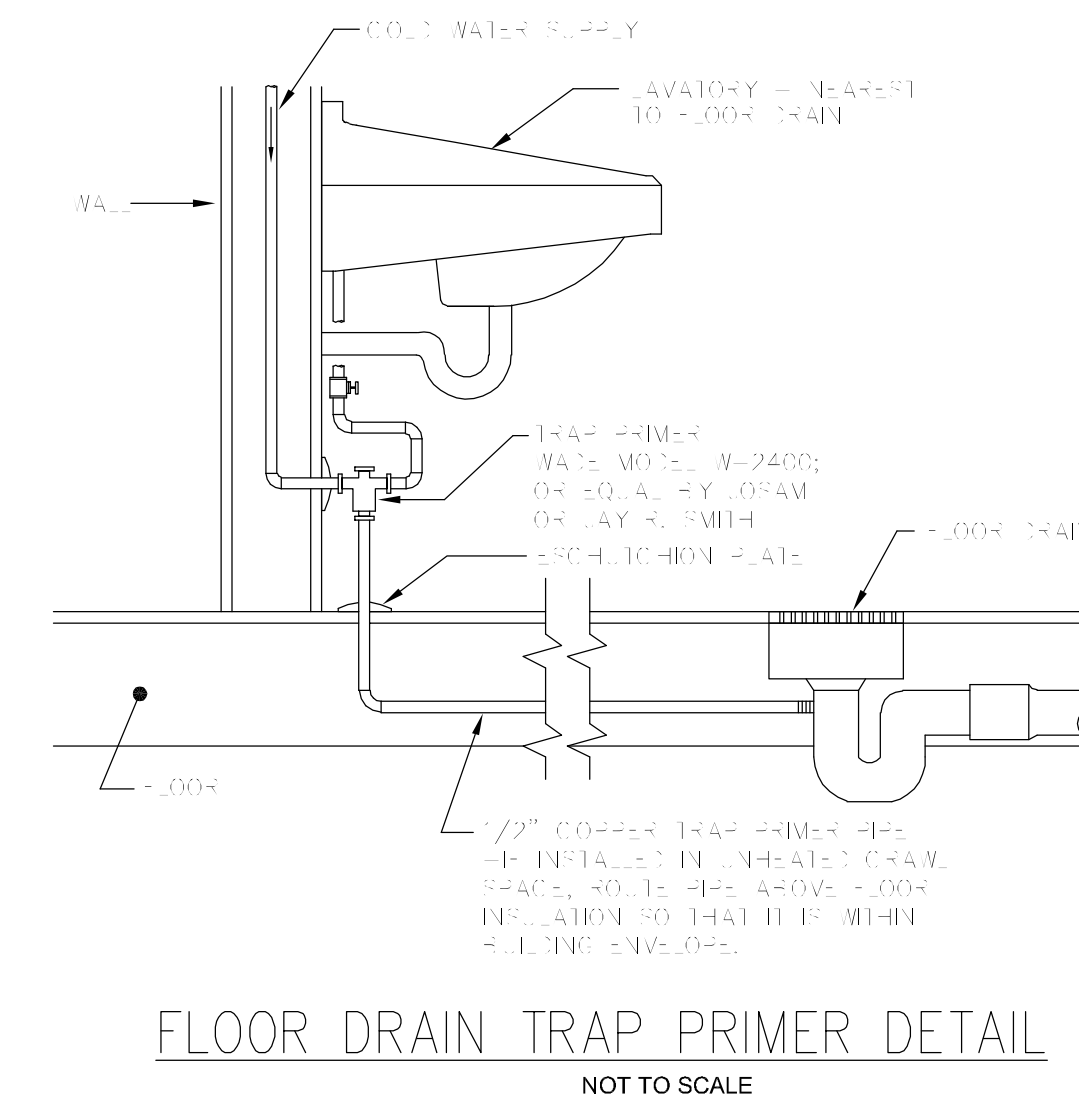


ELECTRIC WATER HEATER PIPING DETAIL
NOT TO SCALE



NOTE:
1. PROVIDE FILTERED WATER ROUGH-IN AT TOP OF ICE MACHINE. ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT CONDITIONS. VERIFY CONNECTIONS WITH MANUFACTURER.

ICE MACHINE SUPPLY



FLOOR DRAIN TRAP PRIMER DETAIL
NOT TO SCALE

NOTE:
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savoie nolan
ARCHITECTS LLC

4 South Main Street - Ipswich, MA 01938 - 978-356-7786

STAMP:
ISSUED FOR
PRICING 04/15/2026

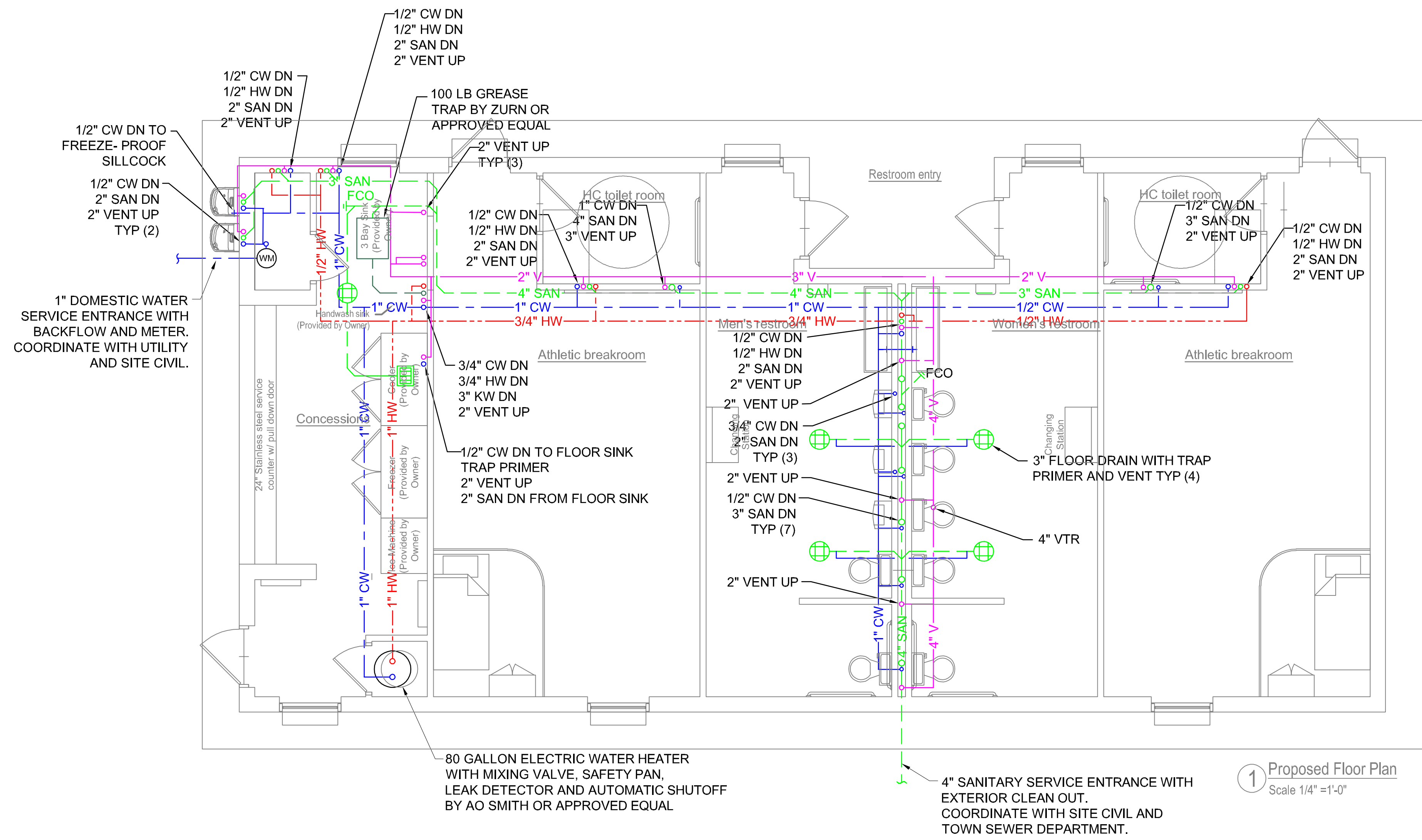
Proposed New Construction:
IPSWICH
FIELDHOUSE
135 High Street, Ipswich, MA

CUMMINGS ENGINEERING
200 JEFFERSON ROAD, SUITE 201
WILMINGTON, MA 01887
(978) 658-2616

Drawing Number

P0

Date: 08-28-2025 Scale: 1/4"=1'-0"



LEGEND	
(WM)	WATER METER
—KW—	KITCHEN WASTE
—CW—	COLD WATER
—HW—	HOT WATER
—S—	SANITARY
—V—	VENT

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Date: 08-28-2025 Scale: 1/4"=1'-0"

Drawing Number
P1

NOTE:
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