

ADDENDUM NO. 1

Penn High School Fieldhouse

Penn-Harris-Madison School Corporation  
Mishawaka, Indiana

Project No. 222130.00

Index of Contents

Addendum No. 1, 9 items, 4 pages

Revised Drawing Sheets: C1.1, C2.1, C2.1A, C2.2, C3.1, C3.1A, C3.2, C3.3, C4.1, C4.2, C5.1, C7.2, C7.3, S-005, S-11A, S-11B, S-11C, S-12A, S-12B, S-21C, S-502, S-503, S-510, S-520, S-522, A-11A, A-11B, A-11C, A-12A, A-12B, AC11A, AC11B, AC11C, AC12A, AC12B, AR101, A-201, A-203, A-204, A-205, A-310, A-311, A-312, A-313, A-314, A-315, A-320, A-401, A-402, A-403, A-404, A-410, A-440, A-501, A-601, A-602, AF11A, AF11B, AF11C, AF12A, AF12B, AF201, AF202, AF203, AF601, AQ71A, AQ71B, AQ71C, AQ72B, AQ751, AQ753, PF11A, PF11B, PL11A, PL11B, PL12A, PL12B, PR101, P-402, P-501, P-601, P-702, P-703, MV102, MV202, MV203, MP101, MP201, MP202, MP203, MR101, M-401, M-601, ES101, EL11A, EL11B, EL11C, EL12A, EL12B, EP11A, EP11B, EP11C, EP12B, EP12C, ET11A, ET11B, ET11C, ET12A, ET12B, ET12D, ET501, E-601, E-602, T-001, T-11A, T-11B, T-11C, T-12A, T-12B, T-12D, and T-503

Prebid Conference Power Point Presentation

Prebid Conference Sign-in Sheet

January 26, 2024

I hereby certify that this Addendum was prepared by me or under my direct supervision and that I am a duly registered Architect/Engineer under the Laws of the State of Indiana.

FANNING/HOWEY ASSOCIATES, INC.  
ARCHITECTS/ENGINEERS/CONSULTANTS



Paul A. Miller, License No. AR10800161  
Expiration Date: 12/31/2025

TO: ALL BIDDERS OF RECORD

ADDENDUM NO. 1 to Drawings and Project Manual, dated January 10, 2024, for the Penn High School Fieldhouse for Penn-Harris-Madison School Corporation, 55900 Bittersweet Road, Mishawaka, Indiana 46545; as prepared by Fanning/Howey Associates, Inc., Indianapolis, Indiana.  
This Addendum shall hereby be and become a part of the Contract Documents the same as if originally bound thereto.

The following clarifications, amendments, additions, revisions, changes, and modifications change the original Contract Documents only in the amount and to the extent hereinafter specified in this Addendum.

Each bidder shall acknowledge receipt of this Addendum in his proposal or bid.

NOTE: Bidders are responsible for becoming familiar with every item of this Addendum. (This includes miscellaneous items at the very end of this Addendum.)

RE: ALL BIDDERS

ITEM NO. 1. PROJECT MANUAL, SECTION – 01 50 00 – TEMPORARY FACILITIES AND CONTROL

A. Replace 3.4, B., 1., as follows:

- “1. Common-Use Field Office: The Owner will provide and maintain a meeting space for Owner, Architect, and Construction Personnel Progress Meetings, pre-installation meetings and general coordination meetings involving the same parties.
  - a. This field office is not to be used for Contractor field personnel daily office.”

ITEM NO. 2. PROJECT MANUAL, SECTION – 07 27 26.02 – VAPOR-PERMEABLE FLUID-APPLIED MEMBRANE AIR BARRIER

A. Delete 2.3, A., 1., in its entirety.

B. Replace 2.3, A., 3., as follows:

- “3. Material: Perm-A-Barrier VPL 50RS, 20 mils thick (wet/dry) by GCP Applied Technologies, [www.GCPAT.com](http://www.GCPAT.com).”

Note: Remainder of subparagraphs remain unchanged and are applicable.

C. Article 2.3, A., 4: Change “90 mils (wet)” to “20 mils (wet/dry)”.

ITEM NO. 3. PROJECT MANUAL, SECTION 07 71 00 – ROOF SPECIALTIES

A. Add 2.7, A., 8., as follows:

- “8. Special Fabrications: Two-way sloped coping cap.”

ITEM NO. 4. PROJECT MANUAL, SECTION 08 71 00 – DOOR HARDWARE

A. Article 3.05: Replace Hardware Sets 20 and 24 as follows:

Hardware Group No. 20

For use on Door #(s):

B120F

Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
<del>(4)</del>	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	<u>LX-RX-QEL-99-NL 24 VDC</u>	626	VON
1	EA	RIM CYL HOUSING (SFIC)	80-116 (W/ DISP CONST CORE)	626	SCH
1	EA	PERMANENT CORE	MARSHALL BEST SECURITY, 7-PIN, SMALL FORMAT INTERCHANGEABLE CORE	626	MAR
<b>1</b>	<b>EA</b>	<b><u>OH STOP</u></b>	<b><u>100S ADJ</u></b>	<b><u>630</u></b>	<b><u>GLY</u></b>
4	EA	<del>SURFACE CLOSER (W/ SPRING STOP)</del>	4040XP SCUSH	<del>689</del>	LCN
<b>1</b>	<b>EA</b>	<b><u>SURF. AUTO OPERATOR</u></b>	<b><u>4642 WMS 120 VAC</u></b>	<b><u>689</u></b>	<b><u>LCN</u></b>
4	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
4	EA	BLADE STOP SPACER	4040XP-64	689	LCN
<b>2</b>	<b>EA</b>	<b><u>ACTUATOR</u></b>	<b><u>8310-818T</u></b>	<b><u>630</u></b>	<b><u>LCN</u></b>
1	EA	CREDENTIAL READER	BY ACCESS CONTROL INTEGRATOR		B/O
1	EA	<b><u>PUSH BUTTON RELEASE</u></b> <del>(DESK MOUNT BUTTON)</del>	<b><u>BY INTERCOM SYSTEM (DIV 28) (660-PB)</u></b>	<del>(628)</del>	<b><u>B/O</u></b> <del>(SCE)</del>
1	EA	DOOR CONTACT	679 SERIES	BLK	SCE
1	EA	POWER SUPPLY	<b><u>PS902 900-4RL 120/240 VAC</u></b> <del>(4RL FOR PUSH BUTTON DELAY)</del>	LGR	SCE

**DOOR(S) NORMALLY CLOSED AND LOCKED AND EXTERIOR ACTUATOR DISABLED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, RETRACTS EXIT DEVICE LATCH AND ENABLES EXTERIOR ACTUATOR. PUSHING ENABLED EXTERIOR ACTUATOR SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. INTERIOR ACTUATOR ENABLED AT ALL TIMES. PUSHING INTERIOR ACTUATOR RETRACTS LATCH AND SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES. (DOOR(S) NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, RETRACTS EXIT DEVICE LATCH, ALLOWING ACCESS. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.)**

Hardware Group No. 24

For use on Door #(s):

B120

PART 1 - Provide each OPENING with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	CONT. HINGE	112XY EPT	628	IVE
1	EA	POWER TRANSFER	EPT10	689	VON
1	EA	ELEC PANIC HARDWARE	<u>LX-RX-QEL-99-NL 24 VDC</u>	626	VON

Addendum No. 1

Penn High School Fieldhouse

Penn-Harris-Madison School Corporation

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	RIM CYL HOUSING (SFIC)	80-159 (W/ KEYED CONST CORE)	626	SCH
1	EA	PERMANENT CORE	MARSHALL BEST SECURITY, 7-PIN, SMALL FORMAT INTERCHANGEABLE CORE	626	MAR
<b><u>1</u></b>	<b><u>EA</u></b>	<b><u>OH STOP</u></b>	<b><u>100S ADJ</u></b>	<b><u>630</u></b>	<b><u>GLY</u></b>
4	EA	<del>SURFACE CLOSER (W/ SPRING STOP)</del>	4040XP SCUSH	689	LCN
<b><u>1</u></b>	<b><u>EA</u></b>	<b><u>SURF. AUTO OPERATOR</u></b>	<b><u>4642 WMS 120 VAC</u></b>	<b><u>689</u></b>	<b><u>LCN</u></b>
4	EA	<del>CUSH SHOE SUPPORT</del>	4040XP-30	689	LCN
4	EA	<del>BLADE STOP SPACER</del>	4040XP-64	689	LCN
<b><u>2</u></b>	<b><u>EA</u></b>	<b><u>ACTUATOR</u></b>	<b><u>8310-818T</u></b> <b><u>(JAMB MOUNTED)</u></b>	<b><u>630</u></b>	<b><u>LCN</u></b>
1	EA	RAIN DRIP	142AA	AA	ZER
1	EA	WEATHERSTRIPPING	BY DOOR/FRAME MANUFACTURER		B/O
1	EA	DOOR SWEEP, BRUSH W/ DRIP	8198AA	AA	ZER
1	EA	THRESHOLD, 1/2"	655A	A	ZER
1	EA	CREDENTIAL READER	BY ACCESS CONTROL INTEGRATOR		B/O
1	EA	<b><u>PUSH BUTTON RELEASE</u></b> <del>(DESK MOUNT BUTTON)</del>	<b><u>BY INTERCOM SYSTEM (DIV 28)</u></b> (660- PB) (628)		<b><u>B/O</u></b> <del>(SCE)</del>
1	EA	DOOR CONTACT	679 SERIES	BLK	SCE
1	EA	POWER SUPPLY	<b><u>PS902 900-4RL 120/240 VAC</u></b> <b><u>(4RL FOR PUSH BUTTON DELAY)</u></b>	LGR	SCE

**DOOR(S) NORMALLY CLOSED AND LOCKED AND EXTERIOR ACTUATOR DISABLED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, RETRACTS EXIT DEVICE LATCH AND ENABLES EXTERIOR ACTUATOR. PUSHING ENABLED EXTERIOR ACTUATOR SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. INTERIOR ACTUATOR ENABLED AT ALL TIMES. PUSHING INTERIOR ACTUATOR RETRACTS LATCH AND SIGNALS AUTOMATIC OPERATOR TO OPEN DOOR. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES. (DOOR(S) NORMALLY CLOSED AND LOCKED. PRESENTING VALID CREDENTIAL TO READER, OR REMOTE PUSH BUTTON, RETRACTS EXIT DEVICE LATCH, ALLOWING ACCESS. EXIT DEVICE LATCH ALSO CAPABLE OF BEING ELECTRONICALLY DOGGED DOWN (I.E. PUSH/PULL MODE) AS DESIGNATED BY ACCESS CONTROL SYSTEM SCHEDULE. EXIT DEVICE LATCHES AND LOCKS WITH LOSS OF POWER. FREE EGRESS AT ALL TIMES.)**

ITEM NO. 5. PROJECT MANUAL, SECTION – 09 21 16 – GYPSUM BOARD ASSEMBLIES

A. Replace 3.10, D., as follows:

“D. Aluminum Trim: Install in locations indicated on drawings or as follows:

1. Provide reveal molding where gypsum board walls or bulkheads intersect a dissimilar material in the same plane (parallel).”

ITEM NO. 6. PROJECT MANUAL, SECTION 22 66 13 – FACILITY NATURAL-GAS PIPING

A. Add 2.1, D., as follows:

- “D. Fittings, at the Contractor’s option, in pipe sizes upto 4”, may be carbon or stainless steel mechanical press-fit, equal to Viega MegaPress, MegaPress FKM. Fittings and Valves shall have natural gas compatible components, third party listed and Fuel Gas Code Compliant. Installing Contractor shall carry manufacturer’s training certification. Natural Gas Valves in sizes upto 4” may be equal to MegaPressG and carry ANSI LC4 approval.”

B. Add 2.4, A., 1., as follows:

- “1. See Article 2.1, D., for Contractor Option mechanical press-fit ball valves for sizes 4 inches and less.”

ITEM NO. 7. PROJECT MANUAL, SECTION 27 53 15 – SYNCHRONOUS, WIRELESS CLOCK SYSTEMS

A. Delete this Section in its entirety.

ITEM NO. 8. ACCEPTABLE MANUFACTURERS

The following manufacturers are to be considered acceptable manufacturers (suppliers and fabricators) for the Sections of the Specifications listed. Listed manufacturers are required to bid on products equal in type and design, size, function, and quality to that originally specified. Final decision as to equality of products specified versus those proposed shall be made by the Architect.

Section 07 71 00 – Roof Specialties

- Jackson Architectural Metal Fabrication

Section 13 34 19 – Metal Building Systems

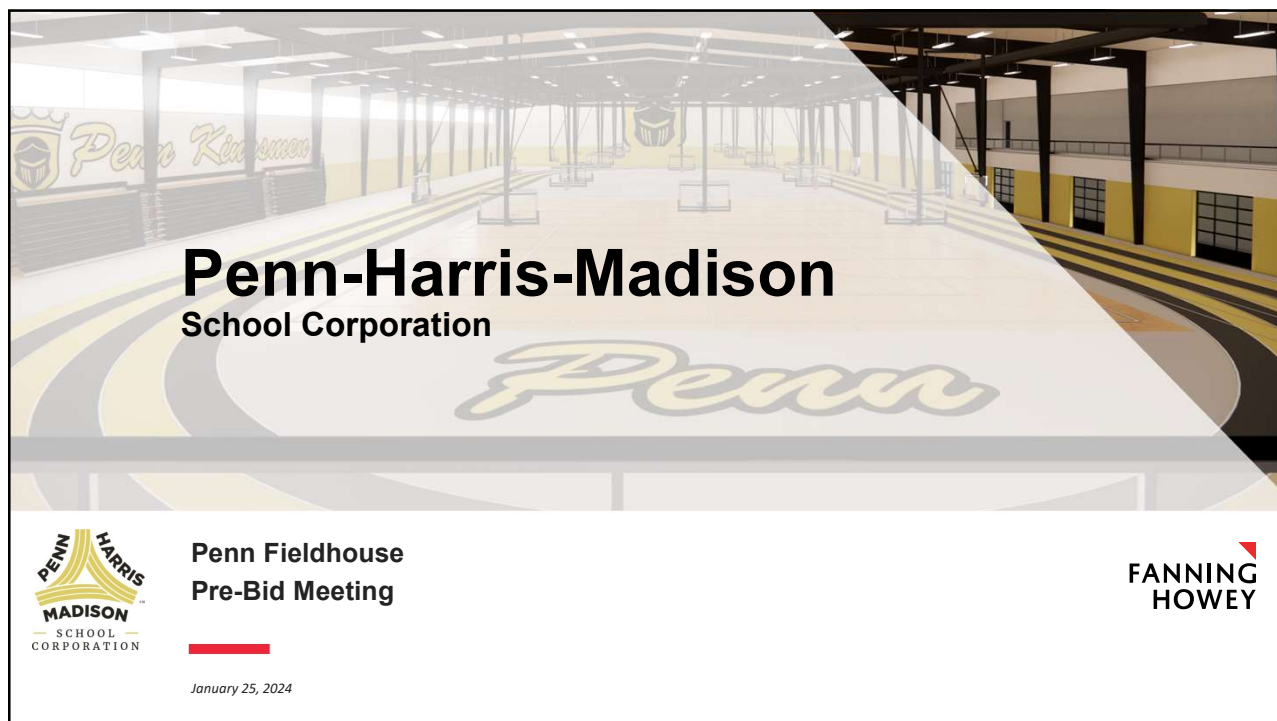
- Kirby Building Systems, Portland, Tennessee

- Silvercote, Greenville, South Carolina (Metal Building Insulation & Roof Liner)

ITEM NO. 9. REVISED DRAWING SHEETS

- A. Drawing Sheets: C1.1, C2.1, C2.1A, C2.2, C3.1, C3.1A, C3.2, C3.3, C4.1, C4.2, C5.1, C7.2, C7.3, S-005, S-11A, S-11B, S-11C, S-12A, S-12B, S-21C, S-502, S-503, S-510, S-520, S-522, A-11A, A-11B, A-11C, A-12A, A-12B, AC11A, AC11B, AC11C, AC12A, AC12B, AR101, A-201, A-203, A-204, A-205, A-310, A-311, A-312, A-313, A-314, A-315, A-320, A-401, A-402, A-403, A-404, A-410, A-440, A-501, A-601, A-602, AF11A, AF11B, AF11C, AF12A, AF12B, AF201, AF202, AF203, AF601, AQ71A, AQ71B, AQ71C, AQ72B, AQ751, AQ753, PF11A, PF11B, PL11A, PL11B, PL12A, PL12B, PR101, P-402, P-501, P-601, P-702, P-703, MV102, MV202, MV203, MP101, MP201, MP202, MP203, MR101, M-401, M-601, ES101, EL11A, EL11B, EL11C, EL12A, EL12B, EP11A, EP11B, EP11C, EP12B, EP12C, ET11A, ET11B, ET11C, ET12A, ET12B, ET12D, ET501, E-601, E-602, T-001, T-11A, T-11B, T-11C, T-12A, T-12B, T-12D, and T-503 have been revised, dated 1/26/24, and is included with and hereby made a part of this Addendum. These Drawings supersede the original documents.

END OF ADDENDUM



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## Penn Fieldhouse: Leadership



### PHM:

- Dr. Jerry Thacker,  
Superintendent
- Dr. Aaron Leniski,  
Chief Operating Officer
- Joe Winters,  
Director of Facilities
- Jason Messner,  
Assistant Director of Facilities - Energy
- Joseph Zappia,  
Facilities Manager

### DESIGN TEAM:

- Fanning Howey,  
Mike Schipp, AIA, Project Manager  
(317) 407-7229; mschipp@fhai.com
- Magnus Engineering: Structural  
Troy Madlem, PE  
Jake Althouse, PE  
Jake Yoder, PE
- Danch Harner: Site & Civil  
Michael Danch, PE  
Scott Meredith, SET  
Ryan Clussman, PE

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# Penn Fieldhouse Project Schedule & Details

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## Penn Fieldhouse: Project Information



### PROJECT SCHEDULE :

- January 26 Addendum No. 1
- February 1 Addendum No. 2
- February 8 Addendum No. 3
- **February 15** **Receipt of Bids at 2 p.m. - at the ESC**
- February 26 Award of Contracts
- February 27 Issue "Notice to Proceed"
- March - tbd Pre-Construction Meeting
- March - tbd Commence New Construction  
- Pending agency approvals
- **July 31, 2025** **Substantial Completion**

### BUILDING AREA:

- New Construction: 100,378 SF
  - Field House: 54,239 SF
  - 1<sup>st</sup> Floor SF: 80,692 SF
  - 2<sup>nd</sup> Floor SF: 19,686 SF
- Note: Includes Alternate SF

### PROJECT BUDGET:

- \$16.8 Million
- Alternate Considerations

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## Penn Fieldhouse: Project Requirements



### INSTRUCTIONS TO BIDDERS:

- Project is Tax Exempt
- Obtaining Bid Documents/Revit Files
- Bid Bond
  - 10% of Bid
- Performance & Payment Bond
  - 100% of Bid
- Background Checks
  - Section 00 73 60
- Insurance
  - Refer to Exhibit A to the Contract
- Substitution Requests
  - Section 00 26 00.01

### BID INFORMATION:

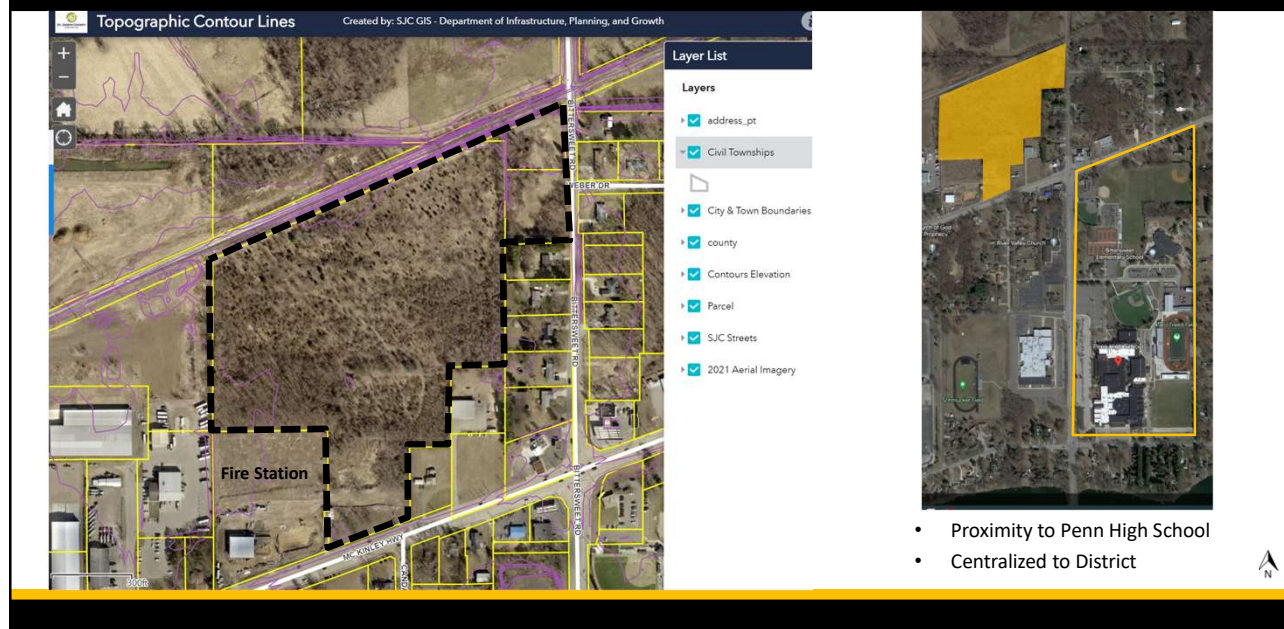
- Single Lump Sum
- Alternates 1 thru 9
- Allowances:
  - No. 1 – General: \$100,000
  - No. 2 – Anchor Bolts: \$15,000
  - No. 3 – Soils: \$200,000
- Permits
  - Local Permits are GC's Responsibility
- Temporary Facilities and Controls
  - GC's Responsibility
- Bid Form
  - Review Section 00 41 16 "Bidder Reminder List"

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# Penn Fieldhouse Site Location Plan

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## Aerial: Penn Fieldhouse Site Location



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## Penn Fieldhouse: Site Concept

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HOWEY

### SITE DETAILS:

- Primary Entry/Exit  
McKinley
- Future Entry/Exit  
Bittersweet Road
- East Parking 95 Cars
- South Parking 44 Cars (Alternate)
- Utilities on McKinley
- Existing Curb cut on McKinley
- Tree Clearing



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## Penn Fieldhouse Project Scope

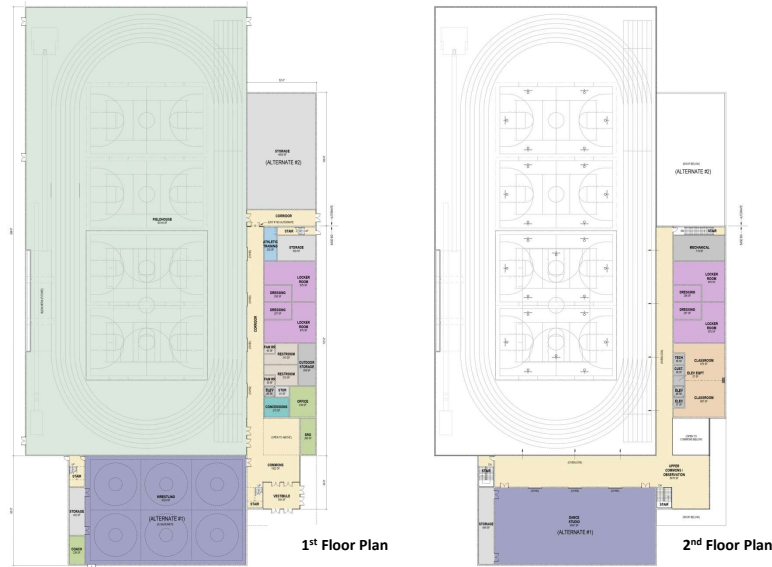
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# Penn Fieldhouse: Floor Plans

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## FIRST FLOOR FEATURES:

- Stand Alone Building
- Field House
- 6 Lane - 200M Track
- SRO Office at Entry
- Concessions
- 2 Locker Rooms
- 2 Dressing Rooms/Community Rooms
- 2 Family Restrooms
- Athletic Training Facility
- Wrestling/Dance (Alternate #9)
- Storage Room (Alternate #8)
- Elevator
- Fully Sprinklered



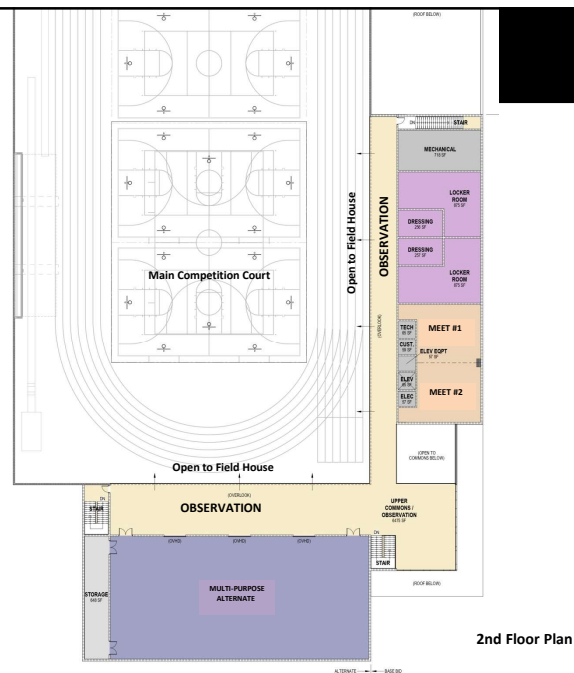
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# Penn Fieldhouse

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## SECOND FLOOR FEATURES:

- Instructional /Meeting Spaces
- Additional
  - 2 Locker Rooms
  - 2 Dressing Rooms/Community Rooms
  - 2 Family Restrooms
- Observation Areas
  - Standing/Seating to the East
  - Extended Observation
- Commons Area
- Multi-Purpose Room (Alternate #9)
  - Winter Guard
  - Additional Wrestling Room
  - Dance Studio
  - Cheerleading



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# Penn Fieldhouse Concept Renderings

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16



17



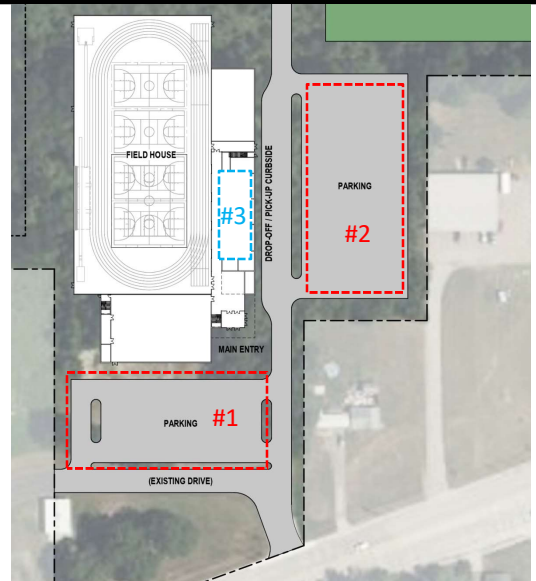
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## Penn Fieldhouse: Alternates

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### Alternates:

- Alternate No. 1: South Parking Lot
- Alternate No. 2: Underground Storm
- Alternate No. 3: Decorative Resin Flooring
- Alternate No. 4: Operable Wall
- Alternate No. 5: CMU wall and Bleachers
- Alternate No. 6: Interior Metal Liner Panel
- Alternate No. 7: Shelled out Locker Rooms
- Alternate No. 8: Unit C – Storage Room
- Alternate No. 9: Unit D – Wrestling/Dance



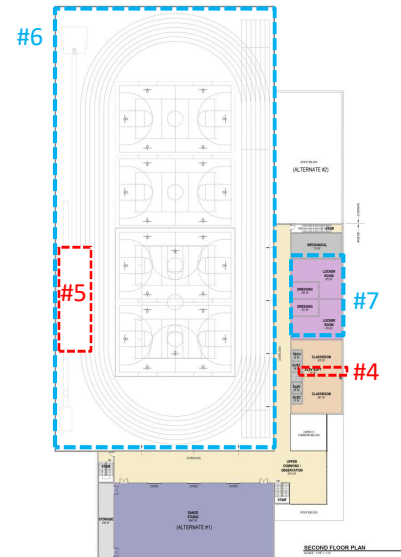
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## Penn Fieldhouse: Alternates

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### Alternates:

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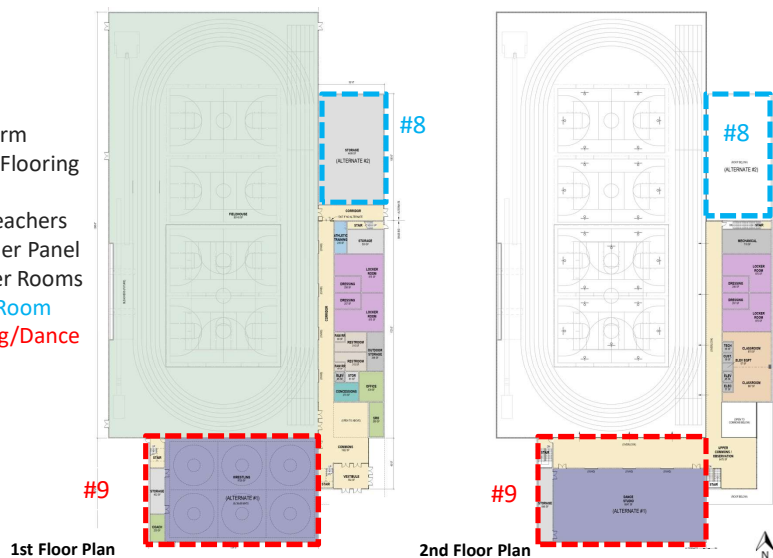
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## Penn Fieldhouse: Alternates

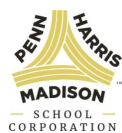
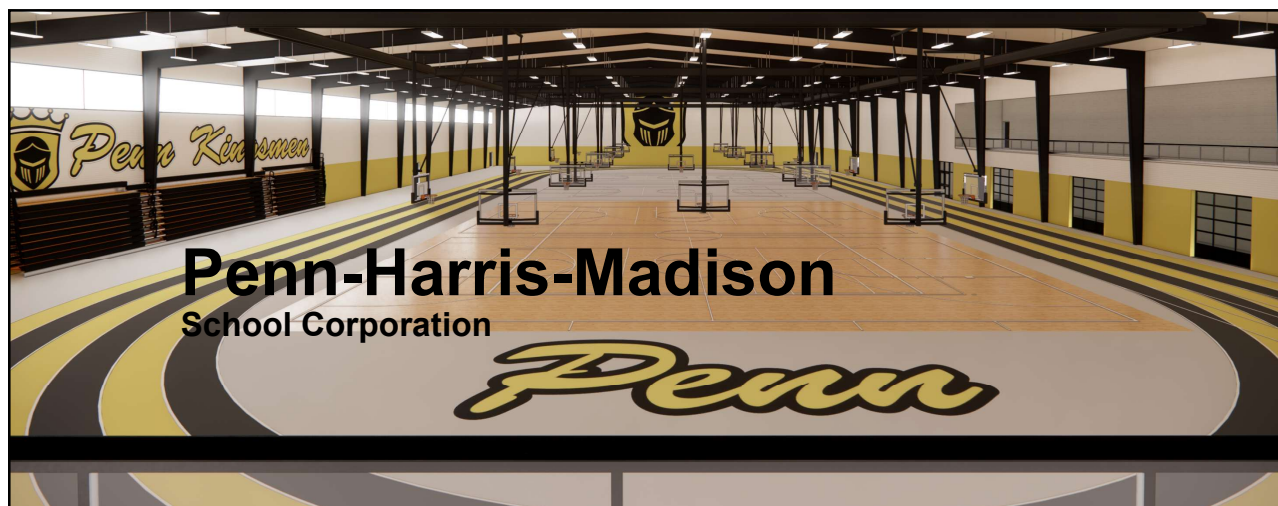
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### Alternates:

- Alternate No. 1: South Parking Lot
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- Alternate No. 3: Decorative Resin Flooring
- Alternate No. 4: Operable Wall
- Alternate No. 5: CMU wall and Bleachers
- Alternate No. 6: Interior Metal Liner Panel
- Alternate No. 7: Shelled out Locker Rooms
- **Alternate No. 8: Unit C – Storage Room**
- **Alternate No. 9: Unit D – Wrestling/Dance**



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Penn Fieldhouse  
Q&A

January 25, 2024

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HOWEY

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PLEASE PRINT CLEARLY.

Your name and title will be included in the meeting report.

Thank you.

PREBID MEETING SIGN IN SHEET (PLEASE PRINT)

NAME (Please Print)	TITLE	COMPANY (Including Address Info)	TELEPHONE NO. FAX NO. CELL NO. (optional)	E-MAIL
Mike Taff	Estimator	Pemberton Davis Services 916 E. McKinley, Mish 46545	574-277-7001 574-204-2565 fax	mtaff@pembertondavis.com
Paul Kelley	Estimator	Pemberton Davis Services 916 E. McKinley, Mish 46545	574-277-7001	pkelley@pembertondavis.com
Jimmy Leibengood	project engineer	Gaylen Electric 2509 Ada Dr, Elkhart, IN 46514	574-386-0405	jleibengood@gaylen.com
Frank Garro	Project Engineer	"	574-529-0952	fgarro@gaylen.com
DR. ARRON LENISKI MS	COO	PHM		
JOE WINTERS MS	DIRECTOR OF FAC.	PHM		
JASON MESSNER MS	ASSIST. DIRECTOR	PHM		
JOSEPH ZAPPIN MS	FACILITIES MAN.	PHM		
MIKE SCHIPP (MS)	ARCHITECT	FANNING HOWEY	(317) 407-7229	mschipp@fhai.com

PLEASE PRINT CLEARLY.

Your name and title will be included in the meeting report.

Thank you.

PRE-BID SIGN IN SHEET (PLEASE PRINT)

NAME (Please Print)	TITLE	COMPANY (Including Address Info)	TELEPHONE NO. FAX NO. CELL NO. (optional)	E-MAIL
Joshua Peine	Superintendent	baguon-inc 2315 Harper Ave Ste 100	563-260-8217	jpeine@baguon-inc.com
Ken Wright	Sr. PM	P. Yodel Construction	260-243-3983	kwright@pyodelconstruction.com
Lyon Daenges	Project Engineer	Larson Danielson	219-851-1408	rdenges@ldconstruction.com

PLEASE PRINT CLEARLY.

Your name and title will be included in the meeting report.

Thank you.

PRE-BID SIGN IN SHEET (PLEASE PRINT)

NAME (Please Print)	TITLE	COMPANY (Including Address Info)	TELEPHONE NO. FAX NO. CELL NO. (optional)	E-MAIL
Tim Murey	PM	Brown & Brown	269-330-4639	tim@bbgc.us
Wendell Simmons	Sub	Slatle Roofing	574-233-7495	Wendell.Simmons@Slatle.com
Mark Haskins	Sub	Haskins Underground	574-930-6858	Mark@haskinsunderground.com
Vince Pellegrino	sub	Teedvine Enterprises	513-748-9731	vince@teedvine.com

PLEASE PRINT CLEARLY.

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Thank you.

PREBID MEETING SIGN IN SHEET (PLEASE PRINT)

NAME (Please Print)	TITLE	COMPANY (Including Address Info)	TELEPHONE NO. FAX NO. CELL NO. (optional)	E-MAIL
BUTCH BREW	VP	Middlebury Electric Inc 65925 US 33 EAST	574-312-3310	butch@midelectric.com
Shane Brys	Pro	Griffa PH 2910 Toke Rd Elkh	574 304-3357	SBrys@GriffaPh.com
Cory Webster	PM	Alma Sotabeer 4530 Chestnut E Elkhart	574-844-2375	<del>CoryWebster@AlmaSotabeer.com</del> CoryWebster@AlmaSotabeer.com

PLEASE PRINT CLEARLY.

Your name and title will be included in the meeting report.

Thank you.

PRE-BID SIGN IN SHEET (PLEASE PRINT)

NAME (Please Print)	TITLE	COMPANY (Including Address Info)	TELEPHONE NO. FAX NO. CELL NO. (optional)	E-MAIL
Terry Minix		Crane Industrial Service 11030 Anderson Rd. Cranford, IN		info@crisocrane.com
Dale LaPlace	Pm	Precision Control Systems	219-7461245	dLaplace@pcsqg.com
Matt Kazmierczak	PM	Dynamic Mechanical	574-257-0123	matthewdynamicmechanical.net
Greg Hicks	Estimator	Gibson Lewis	574 259 8581	ghicks@glncusa.com

PLEASE PRINT CLEARLY.

Your name and title will be included in the meeting report.

Thank you.

PRE-BID SIGN IN SHEET (PLEASE PRINT)

NAME (Please Print)	TITLE	COMPANY (Including Address Info)	TELEPHONE NO. FAX NO. CELL NO.(optional)	E-MAIL
Jett Williams	Project Manager	Kuhn Specialty Flooring	269-832-4101	jwilliams@KuhnSpecialtyFlooring.com
Matt Bailey	Project Manager	H36 Services	574-274-6556	mbailey@h36services.com
Adam Clark	Estimator	C&E Excavating	574-262-4346	aclock@andeeexcavating.com
Colin Campbell	Estimator	Ziolkowski	574-287-1911	ccampbell@2built.com
MARCELO SUVEIZA	Estimator	Ziolkowski Const.	574-386-3325	MSUVEIZA@2BUILT.COM
Nate Hershberger	Project Manager	H&G	574-217-5324	nhershberger@hgservices.com

PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

LEGAL DESCRIPTION:

A PART OF THE SOUTHWEST AND NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST, PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA AND BEING MORE PARTICULARLY DESCRIBED AS: COMMENCING AT THE CENTER MARKER OF SAID SECTION, TOWNSHIP AND RANGE; THENCE SOUTH 89°34'38" WEST ALONG THE EAST–WEST QUARTER SECTION LINE OF SAID SECTION, A DISTANCE OF 247.05 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 00°35'37" EAST AND ALONG THE WEST LINE OF LANGE'S MINOR SUBDIVISION AS SHOWN IN BOOK 28, PAGE L–3, SYNDER'S MINOR SUBDIVISION AS SHOWN IN BOOK 25, PAGE S–6, AND FOULK'S MINOR SUBDIVISION AS SHOWN IN BOOK 27, PAGE F–3, ALL RECORDED IN THE OFFICE OF THE ST. JOSEPH COUNTY, INDIANA RECORDER, A DISTANCE OF 821.53 FEET; THENCE SOUTH 89°41'12" WEST (REC. SOUTH 90°00'00" WEST), A DISTANCE OF 200.68 FEET (REC. 200.00 FEET); THENCE SOUTH 00°21'34" EAST (REC. SOUTH 00°00'00" EAST), A DISTANCE OF 292.98 FEET; THENCE SOUTH 89°49'39" WEST (REC. SOUTH 90°00'00" WEST), A DISTANCE OF 150.06 FEET (REC. 150.00 FEET); THENCE SOUTH 00°21'34" EAST (REC. SOUTH 00°00'00" EAST), A DISTANCE OF 318.02 FEET (REC. 317.76 FEET) TO THE CENTERLINE OF MCKINLEY HIGHWAY; THENCE SOUTH 69°47'08" WEST ALONG SAID CENTERLINE, A DISTANCE OF 322.07 FEET; THENCE NORTH 00°30'11" WEST (REC. NORTH 00°08'50" WEST), A DISTANCE OF 53.11 FEET (REC. 53.16 FEET) TO THE NORTH RIGHT–OF–WAY LINE OF MCKINLEY HIGHWAY; THENCE SOUTH 69°47'08" WEST (REC. SOUTH 70°00'19" WEST) ALONG SAID NORTH RIGHT–OF–WAY LINE, A DISTANCE OF 447.35 FEET (REC. 447.85); THENCE NORTH 00°28'35" WEST AND ALONG THE EAST LOT LINE OF LOT 2 AND LOT 6 EVERGREEN PLAZA SUBDIVISION, AS RECORDED IN DOCUMENT NUMBER 08200867 IN THE OFFICE OF THE ST. JOSEPH, INDIANA RECORDER, A DISTANCE OF 1228.80 FEET TO THE SOUTH LINE OF THE CONRAIL RAILROAD; THENCE NORTH 66°34'12" EAST ALONG SAID SOUTH RAILROAD LINE, A DISTANCE OF 1166.84 FEET, THENCE SOUTH 00°35'37" EAST, A DISTANCE OF 45.95 FEET TO THE POINT OF BEGINNING.

CONTAINING 28.60 ACRES MORE OR LESS AND CONSISTING OF TWO (2) LOTS. SUBJECT TO ALL LEGAL RIGHT–OF–WAYS, AND EASEMENTS, AND RESTRICTIONS OF RECORD.

BUILDING ENCROACHMENT:

THERE ARE NO ENCROACHMENTS UPON EXISTING BUILDING SETBACK LINES AND/OR EASEMENTS.

BUILDING SETBACK NOTE:

THE BUILDING SETBACKS SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THE ZONING ORDINANCE AND/OR AS INDICATED ON THIS PLAT.

EASEMENT NOTE:

TO THE BEST OF OUR RESEARCH, AND FROM THE INFORMATION SUPPLIED TO US BY THE OWNERS, ALL EASEMENTS OF RECORD ARE SHOWN ON THIS PLAT.

FLOOD PLAIN NOTE:

THE PARCEL OF GROUND DOES NOT FALL WITHIN THE FLOOD HAZARD AREA AS DEFINED ON AND SCALED FROM THE COMMUNITY PANEL MAPS ESTABLISHED BY F.E.M.A. FOR FLOOD INSURANCE. THIS PARCEL FALLS WITHIN A "X" ZONE AREA AS SHOWN ON COMMUNITY PANEL NO. 18141C020228D & 18141C020236E, DATED JANUARY 6, 2011.

STREET CLASSIFICATION NOTE:

NAME	CLASSIFICATION	WIDTH
1. MCKINLEY HWY.	HIGHWAY	AS SHOWN

WATER AND SEWER NOTE:

THE LOTS SHOWN ON THIS SUBDIVISION WILL BE SERVICED BY PUBLIC WATER AND SANITARY SEWER.

WAIVER NOTE:

THE PLAT COMMITTEE OF THE ARE PLAN COMMISSION AT ITS JUNE 4, 2020 MEETING GRANTED THE FOLLOWING WAIVERS:

- FROM SECTION 153.025 (M) TO ALLOW FOR ONE (1) 76.55 FT. WIDE OPENING FOR LOT 1 AND ONE (1) 100 FT. WIDE OPENING FOR LOT 2 ACROSS THE 5 FT. NON–ACCESS EASEMENT FOR ACCESS ONTO MCKINLEY HIGHWAY.

DRAINAGE NOTE:

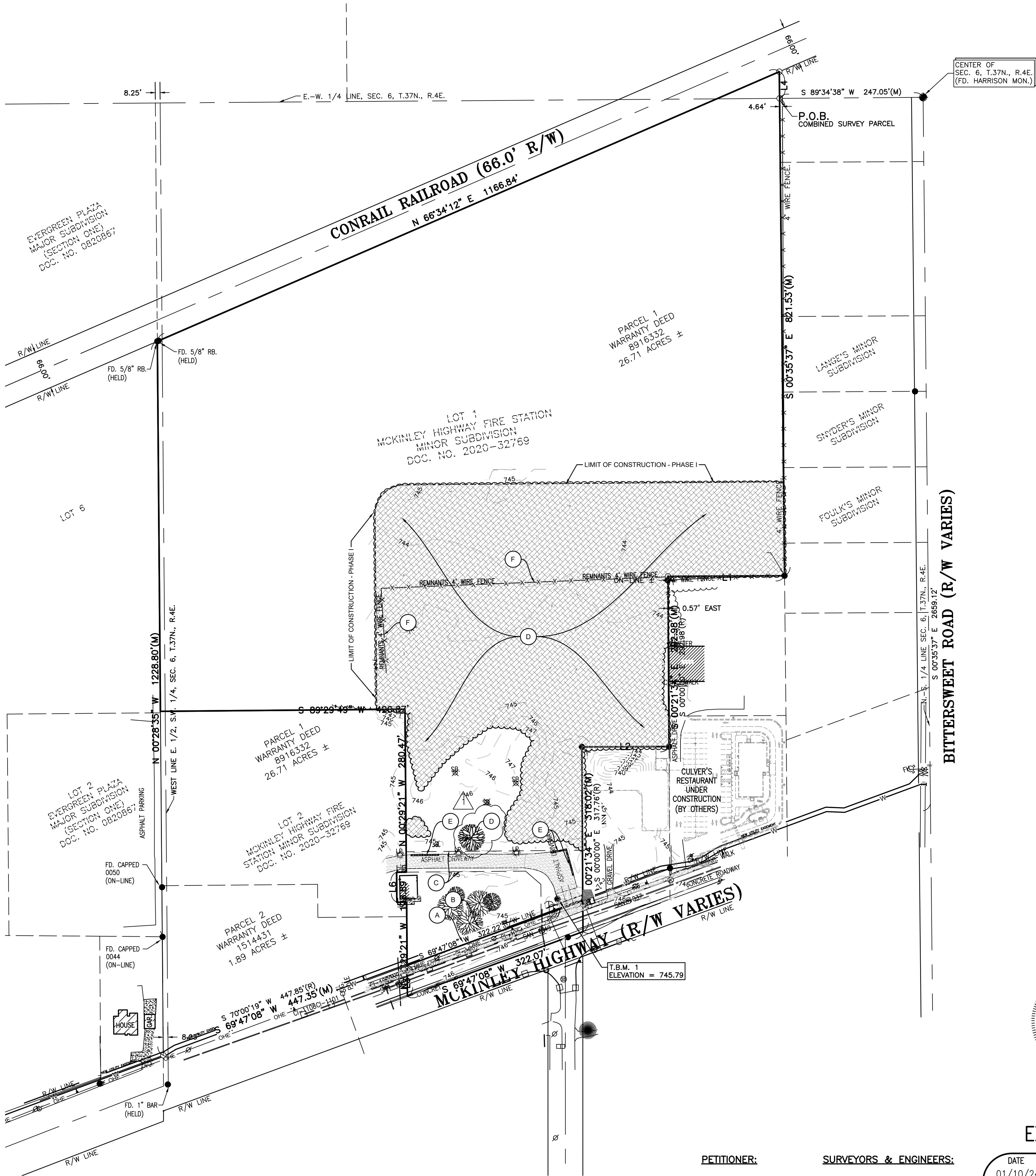
A SEPARATE DRAINAGE PLAN FOR LOT 1 WILL BE REQUIRED PRIOR TO DEVELOPMENT.

EASEMENT NOTES:

- THE 100–FT WIDE OPENING ALONG THE 5–FT NON ACCESS EASEMENT SHOWN ON LOT 2 WILL BE FOR EGRESS ONLY.
- THE INGRESS/EGRESS EASEMENT SHOWN ON LOT 1 OF THIS PLAT IS RESERVED FOR THE EXCLUSIVE USE OF THE OWNERS, SUCCESSORS AND/OR THEIR ASSIGNS OF LOT 1 AND 2 OF THIS PLAT.

EASEMENT LEGEND:

- (A) 5–FT NON–ACCESS EASEMENT  
(B) 20–FT CITY OF MISHAWAKA MUNICIPAL UTILITY EASEMENT  
(C) INGRESS/EGRESS EASEMENT

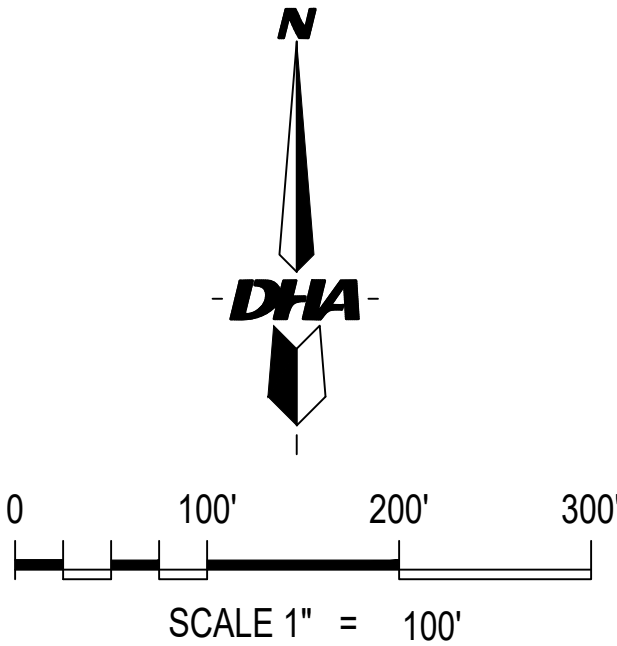


DEMOLITION KEYNOTES:

- (D) REMOVE EXISTING TREES, BRUSH AND DEBRIS.  
(E) REMOVE EXISTING ASPHALT. (ALTERNATE #1)  
(F) REMOVE EXISTING FENCE.

GENERAL DEMOLITION NOTES:

- MAINTAIN AND PROTECT ALL SANITARY SEWER, STORM SEWER, DOMESTIC WATER, FIRE PROTECTION WATER, ELECTRICAL, AND NATURAL GAS UTILITY CONNECTIONS TO THE SITE DURING THE DEMOLITION/CONSTRUCTION PROCESS.
- ANY DEMOLITION MATERIALS REMOVED FROM THE SITE ARE TO BE DISPOSED OF PER LOCAL, STATE, AND FEDERAL LAWS OR ORDINANCES.
- ANY DAMAGE OR DISTURBANCE FROM CONSTRUCTION ACTIVITIES, OUTSIDE THE AREA OF DEMOLITION, IS TO BE REPAIRED TO ITS ORIGINAL CONDITION.
- FIELD LOCATE EXISTING SANITARY SEWER AND WATER LATERALS AND PROTECT DURING CONSTRUCTION.



EXISTING CONDITIONS & DEMOLITION PLAN

DATE	DRAWN BY:	REVISIONS			
01/10/24	ASM				
SCALE	CHECKED BY:	DATE	BY	ADDENDUM #1	
1" = 100'	MJD	1/26/24	ASM		
FILE #	PROJ. MNGR:				
230228.5	MJD				

PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259–7941  
ATTN: JOE WINTERS

SURVEYORS & ENGINEERS:

DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234–4003  
ATTN: MICHAEL DANCH

Danch, Harner & Associates, Inc.  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners

DHA

SHEET

C1.1

**KEYNOTES:**

- (A) PROPOSED STANDARD DUTY HMA PAVEMENT (SEE SHEET C7.1)  

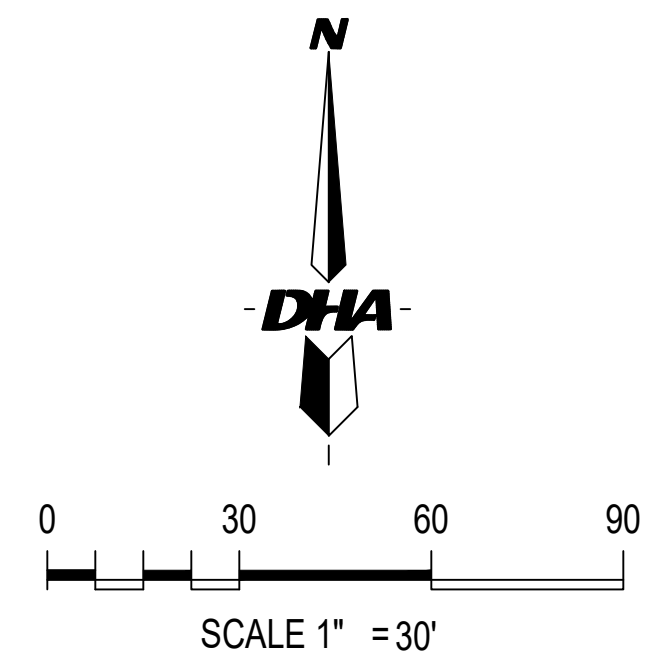
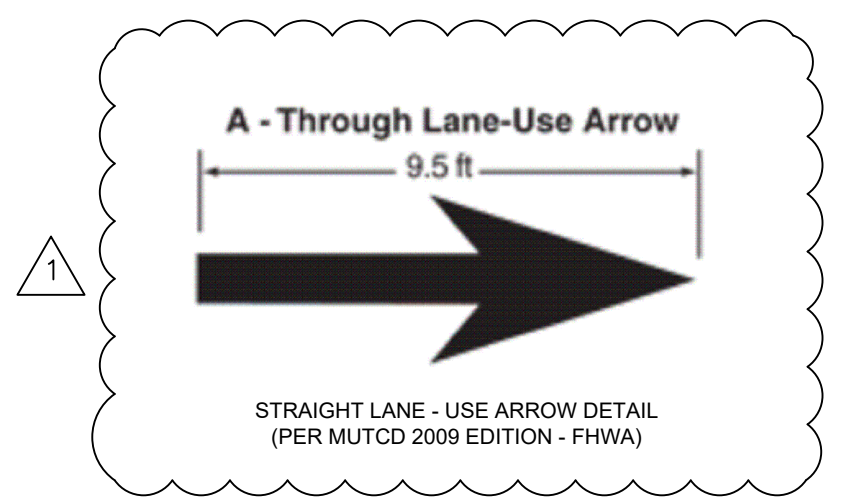
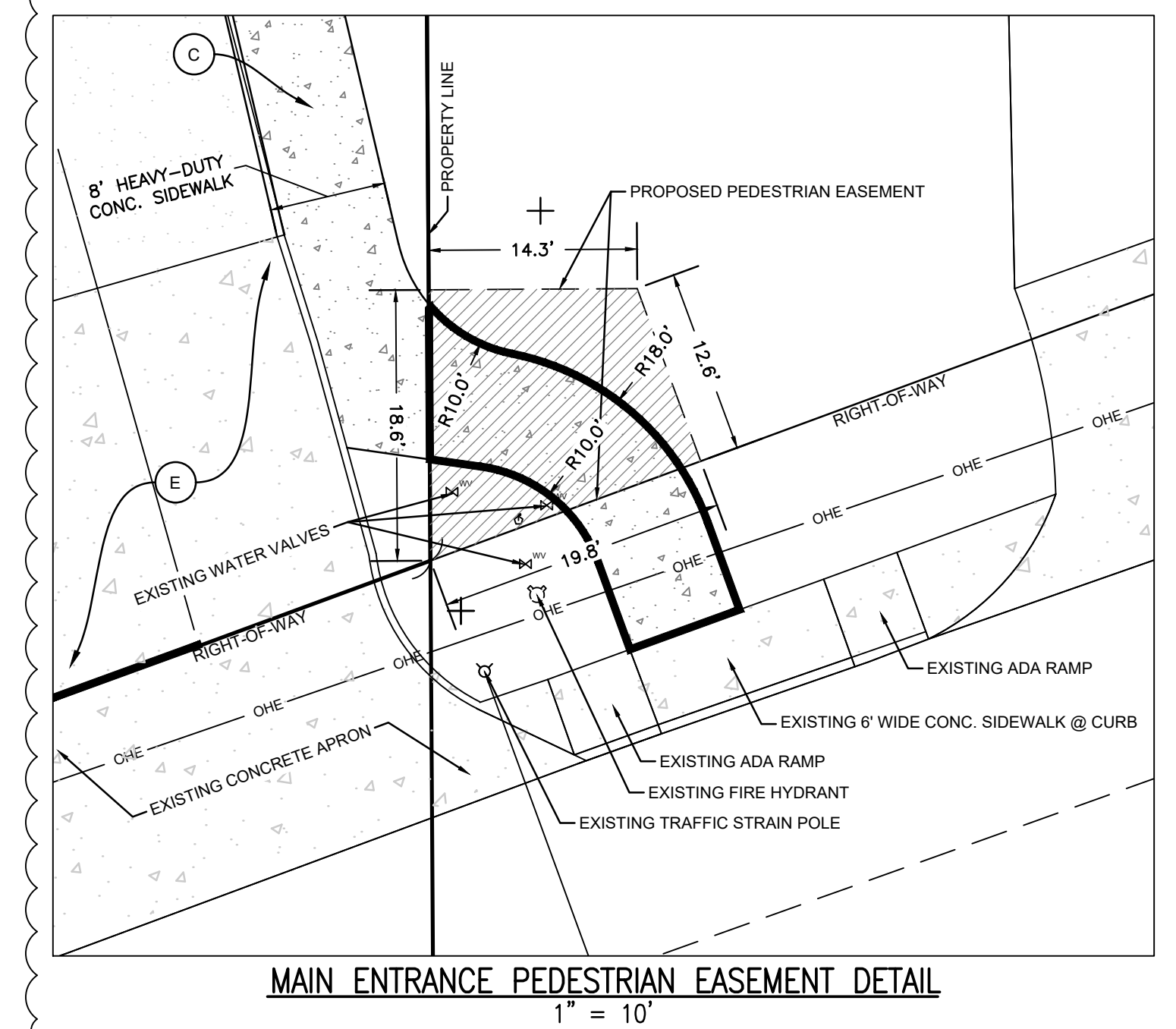
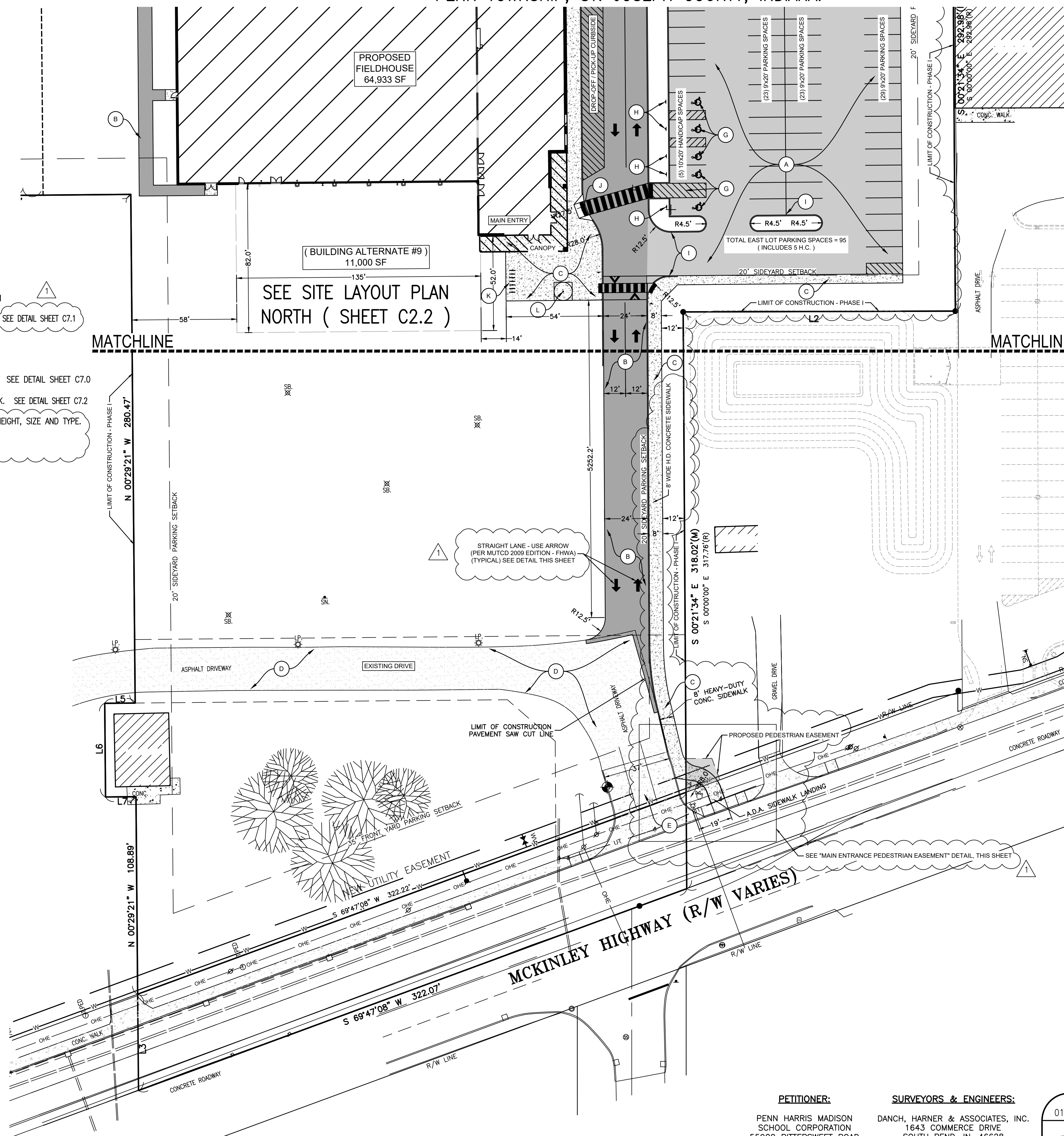
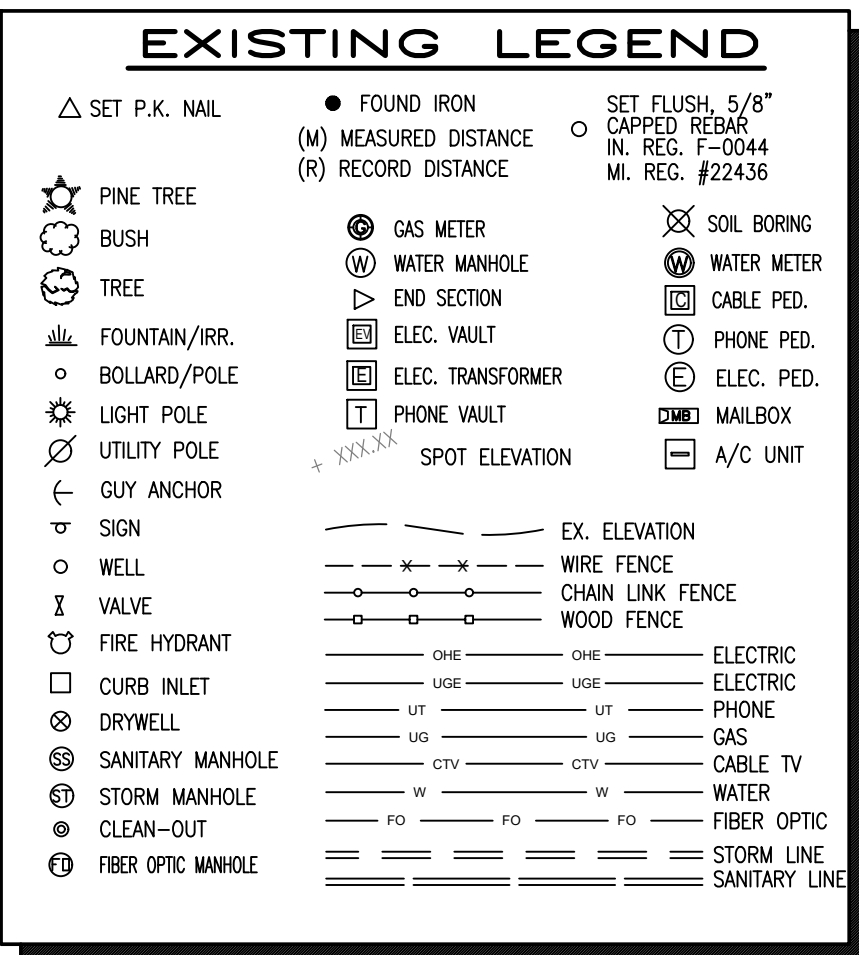
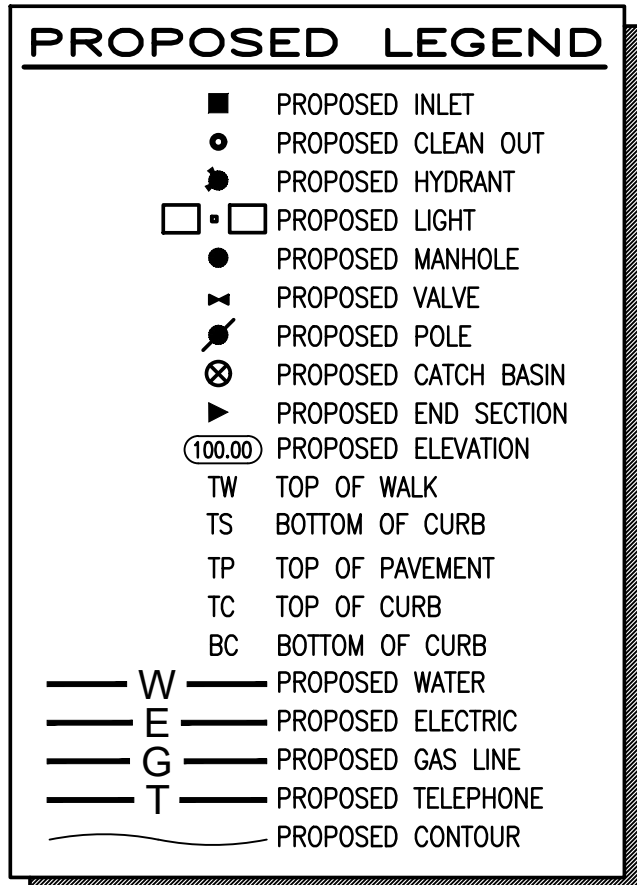
- (B) PROPOSED HEAVY DUTY HMA PAVEMENT (SEE SHEET C7.1)  

- (C) PROPOSED CONCRETE SIDEWALK  

- (D) EXISTING ASPHALT PAVEMENT  

- (E) EXISTING CONCRETE APRON  

- (F) ADA PAVEMENT MARKINGS AND SIGN/POST. SEE DETAILS SHEET
- (G) ADA PAVEMENT MARKINGS PER ADA STANDARDS AND SPECIFICATION
- (H) ADA PARKING SIGNAGE. SEE DETAIL SHEET C7.1
- (I) STANDARD UPRIGHT CONCRETE CURB. SEE DETAIL SHEET C7.0
- (J) PROPOSED CONCRETE ADA HANDICAP RAMP AND SIDEWALK TO CURB
- (K) PROPOSED 14 STALL SURFACE MOUNTED "HITCH POST" BICYCLE RACK
- (L) PROPOSED FLAGPOLE. CONTACT PHMSC FOR SCHOOL CORPORATION TO INSTALL PER MANUFACTURER'S SPECIFICATION.
- (M) PROPOSED SITE LIGHTING. SEE SHEETS C6.0 & ES2.0



**DHA**  
**Danach, Harmer & Associates, Inc.**  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners

Office: (574)234-4003 • (800)594-4003 • Fax: (574)234-4119  
1643 Commerce Drive • South Bend, IN 46628

SHEET

## C2.1

PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
ATTN: JOE WINTERS

SURVEYORS & ENGINEERS:

DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

DATE 01/10/24	DRAWN BY: ASM	R E V I S I O N S		
SCALE 1" = 30'	CHECKED BY: MJD	DATE 1/26/24	BY ASM	ADDENDUM #1
FILE # 230228.5	PROJ. MANGR: MJD			

PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

KEYNOTES:

- (A) PROPOSED STANDARD DUTY HMA PAVEMENT (SEE SHEET C7.1)
- (B) PROPOSED HEAVY DUTY HMA PAVEMENT (SEE SHEET C7.1)
- (C) PROPOSED CONCRETE SIDEWALK
- (F) ADA PAVEMENT MARKINGS AND SIGN/POST. SEE DETAILS SHEET C7.1
- (G) ADA PAVEMENT MARKINGS PER ADA STANDARDS AND SPECIFICATIONS/ SEE DETAIL SHEET C7.1
- (H) ADA PARKING SIGNAGE. SEE DETAIL SHEET C7.1
- (I) STANDARD UPRIGHT CONCRETE CURB. SEE DETAIL SHEET C7.0
- (J) PROPOSED CONCRETE ADA HANDICAP RAMP AND SIDEWALK AT CURB. SEE DETAIL SHEET C7.0
- (K) PROPOSED 14 STALL SURFACE MOUNTED "HITCH-POST" BICYCLE RACK. SEE DETAIL SHEET C7.2
- (L) PROPOSED FLAGPOLE. CONTACT PHMSC FOR SCHOOL CORPORATION HEIGHT, SIZE AND TYPE. INSTALL PER MANUFACTURER'S SPECIFICATION.
- (M) PROPOSED SITE LIGHTING. SEE SHEET C6.0.
- (N) PROPOSED 28 FT. MANUAL DOUBLE SWING BARRIER GATE (ALT. #1) SEE SHEET C7.2

PROPOSED LEGEND

- PROPOSED INLET  
● PROPOSED CLEAN OUT  
● PROPOSED HYDRANT  
□ PROPOSED LIGHT  
● PROPOSED MANHOLE  
● PROPOSED VALVE  
● PROPOSED POLE  
● PROPOSED CATCH BASIN  
● PROPOSED END SECTION  
(100.00) PROPOSED ELEVATION  
TW TOP OF WALK  
TS BOTTOM OF CURB  
TP TOP OF PAVEMENT  
TC TOP OF CURB  
BC BOTTOM OF CURB  
— W — PROPOSED WATER  
— E — PROPOSED ELECTRIC  
— G — PROPOSED GAS LINE  
— T — PROPOSED TELEPHONE  
— — PROPOSED CONTOUR

EXISTING LEGEND

- △ SET P.K. NAIL  
☆ PINE TREE  
● BUSH  
● TREE  
● FOUNTAIN/IRR.  
● BOLLARD/POLE  
● LIGHT POLE  
● UTILITY POLE  
● GUY ANCHOR  
● SIGN  
● WELL  
● VALVE  
● FIRE HYDRANT  
□ CURB INLET  
□ DRYWELL  
● SANITARY MANHOLE  
● STORM MANHOLE  
● CLEAN-OUT  
● FIBER OPTIC MANHOLE
- FOUND IRON  
(M) MEASURED DISTANCE  
(R) RECORD DISTANCE  
● GAS METER  
● WATER MANHOLE  
● END SECTION  
● ELEC. VAULT  
● ELEC. TRANSFORMER  
● PHONE VAULT  
● SPOT ELEVATION  
● SOIL BORING  
● WATER METER  
● CABLE PED.  
● PHONE PED.  
● ELEC. PED.  
● MAILBOX  
● A/C UNIT
- EX. ELEVATION  
— WIRE FENCE  
— CHAIN LINK FENCE  
— WOOD FENCE  
— ONE — ONE — ELECTRIC  
— UT — UT — ELECTRIC  
— UT — UT — PHONE  
— UT — UT — GAS  
— UT — UT — CABLE TV  
— W — W — WATER  
— FO — FO — FIBER OPTIC  
— STORM LINE  
— SANITARY LINE

MATCHLINE

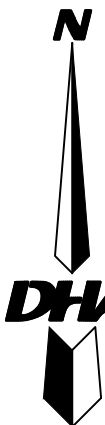
MATCHLINE

PETITIONER:

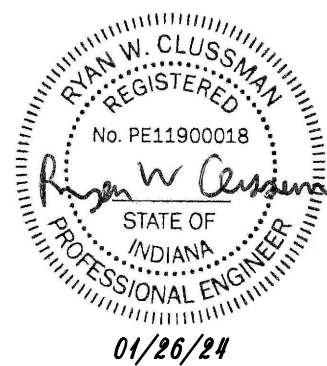
PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
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ATTN: JOE WINTERS

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1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH



0 30 60 90  
SCALE 1" = 30'



(ALT. #1, #2, #8 & #9)  
SITE LAYOUT PLAN – SOUTH

DATE  
01/10/24  
SCALE  
1" = 30'  
FILE #  
230228.5

DRAWN BY:  
ASM  
CHECKED BY:  
MJD  
PROJ. MNGR:  
MJD

REVISIONS

DATE  
1/26/24  
BY  
ASM  
ADDENDUM #1

SHEET

C2.1A

Danch, Harner & Associates, Inc.  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners

DHA

Office: (574)234-4003 / (800)394-4003 • Fax: (574)234-4119  
1643 Commerce Drive • South Bend, IN 46628

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ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

KEYNOTES:

- (A) PROPOSED STANDARD DUTY HMA PAVEMENT (SEE SHEET C7.1)
- (B) PROPOSED HEAVY DUTY HMA PAVEMENT (SEE SHEET C7.1)
- (C) PROPOSED CONCRETE SIDEWALK
- (F) ADA PAVEMENT MARKINGS AND SIGN/POST. SEE DETAILS SHEET C7.1
- (G) ADA PAVEMENT MARKINGS PER ADA STANDARDS AND SPECIFICATIONS. SEE DETAIL SHEET C7.2
- (H) ADA PARKING SIGNAGE. SEE DETAIL SHEET C7.1
- (I) STANDARD UPRIGHT CONCRETE CURB. SEE DETAIL SHEET C7.0
- (J) PROPOSED CONCRETE ADA HANDICAP RAMP AND SIDEWALK AT CURB. SEE DETAIL SHEET C7.0
- (K) PROPOSED 14 STALL SURFACE MOUNTED "HITCH POST" BICYCLE RACK. SEE DETAIL SHEET C7.2
- (L) PROPOSED FLAGPOLE. SEE ARCHITECTURAL PLANS FOR DETAILS.
- (M) PROPOSED SITE LIGHTING. SEE ARCHITECTURAL PLANS FOR DETAILS.

A - Through Lane-Use Arrow

9.5 ft

STRAIGHT LANE - USE ARROW DETAIL  
(PER MUTCD 2009 EDITION - FHWA)

PROPOSED LEGEND

- PROPOSED INLET  
● PROPOSED CLEAN OUT  
● PROPOSED HYDRANT  
□ PROPOSED LIGHT  
● PROPOSED MANHOLE  
● PROPOSED VALVE  
● PROPOSED POLE  
● PROPOSED CATCH BASIN  
● PROPOSED END SECTION  
(100.00) PROPOSED ELEVATION  
TW TOP OF WALK  
TS BOTTOM OF CURB  
TP TOP OF PAVEMENT  
TC TOP OF CURB  
BC BOTTOM OF CURB  
— W — PROPOSED WATER  
— E — PROPOSED ELECTRIC  
— G — PROPOSED GAS LINE  
— T — PROPOSED TELEPHONE  
— — PROPOSED CONTOUR

EXISTING LEGEND

- △ SET P.K. NAIL  
★ PINE TREE  
● BUSH  
● TREE  
● FOUNTAIN/IRR.  
● BOLLARD/POLE  
● LIGHT POLE  
● UTILITY POLE  
● GUY ANCHOR  
● SIGN  
● WELL  
● VALVE  
● FIRE HYDRANT  
□ CURB INLET  
□ DRYWELL  
● SANITARY MANHOLE  
● STORM MANHOLE  
● CLEAN-OUT  
● FIBER OPTIC MANHOLE  
● FOUND IRON  
(N) MEASURED DISTANCE  
(R) RECORD DISTANCE  
● GAS METER  
● WATER MANHOLE  
● END SECTION  
● ELEC. VAULT  
● ELEC. TRANSFORMER  
● PHONE VAULT  
● SPOT ELEVATION  
● EX. ELEVATION  
— WIRE FENCE  
— CHAIN LINK FENCE  
— WOOD FENCE  
● SOIL BORING  
● WATER METER  
● CABLE PED.  
● PHONE PED.  
● ELEC. PED.  
● MAILBOX  
● A/C UNIT  
● SET FLUSH, 5/8" CAPPED REBAR IN. REG. F-0044 MI. REG. #22436  
● EX. ELEVATION  
— WIRE FENCE  
— CHAIN LINK FENCE  
— WOOD FENCE  
— ONE — ELECTRIC  
— ONE — ELECTRIC  
— ONE — PHONE  
— ONE — GAS  
— ONE — CABLE TV  
— ONE — WATER  
— ONE — FIBER OPTIC  
— ONE — STORM LINE  
— ONE — SANITARY LINE

SEE SITE LAYOUT PLANS SOUTH & NORTH  
( SHEETS C2.1 & C2.1A )

SEE "MAIN ENTRANCE & A.D.A. DETAIL"  
THIS SHEET

STRAIGHT LANE - USE ARROW  
(PER MUTCD 2009 EDITION - FHWA)  
(TYPICAL) SEE DETAIL THIS SHEET

PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
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1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

SITE LAYOUT PLAN – NORTH

DATE  
01/10/24  
SCALE  
1" = 30'  
FILE #  
230228.5

DRAWN BY:  
ASM  
CHECKED BY:  
MJD  
PROJ. MNGR:  
MJD

REVISIONS

DATE  
1/26/24  
BY  
ASM  
ADDENDUM #1

Danch, Harner & Associates, Inc.  
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Landscape Architects • Land Planners

DHA

SHEET

C2.2

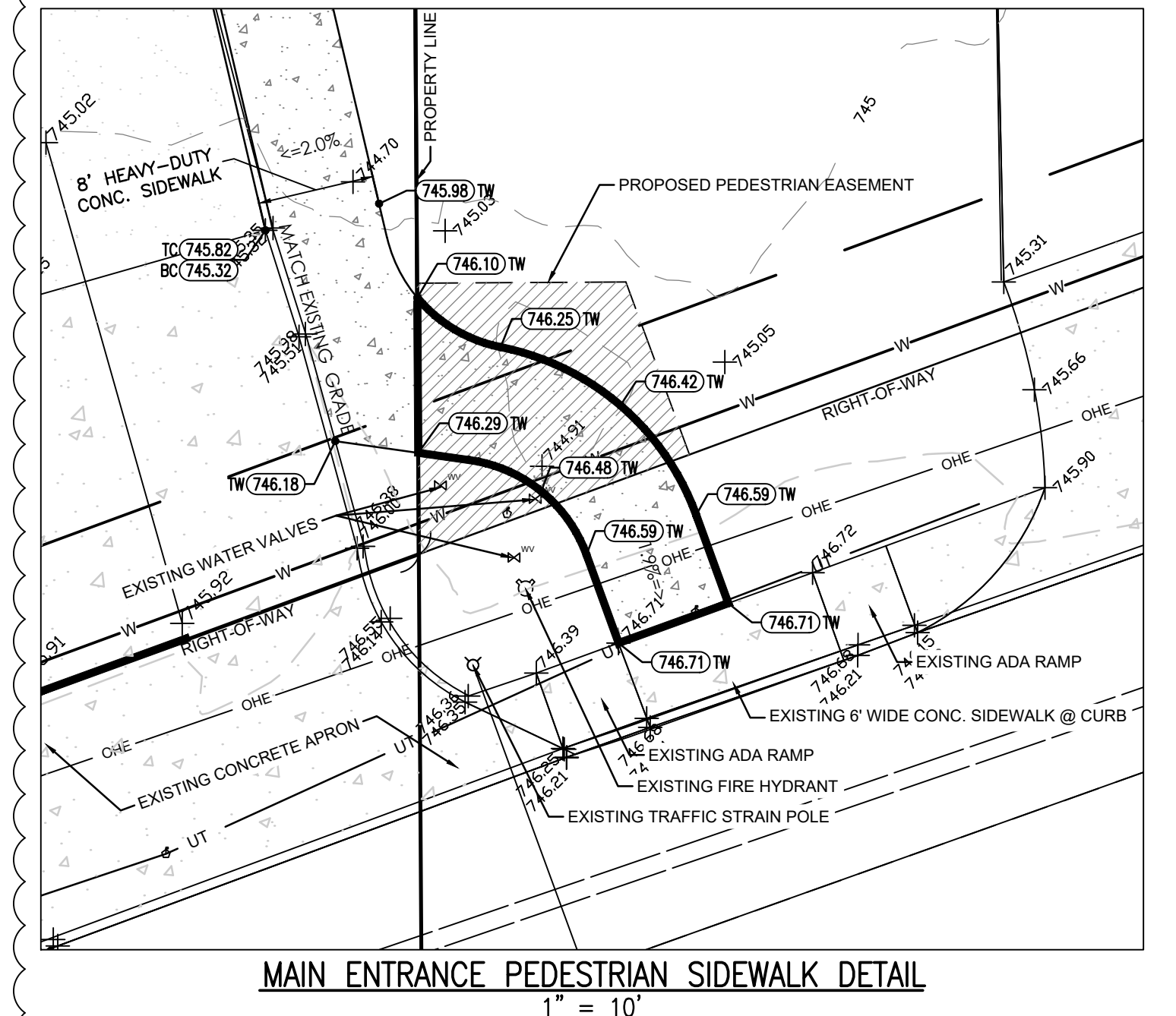
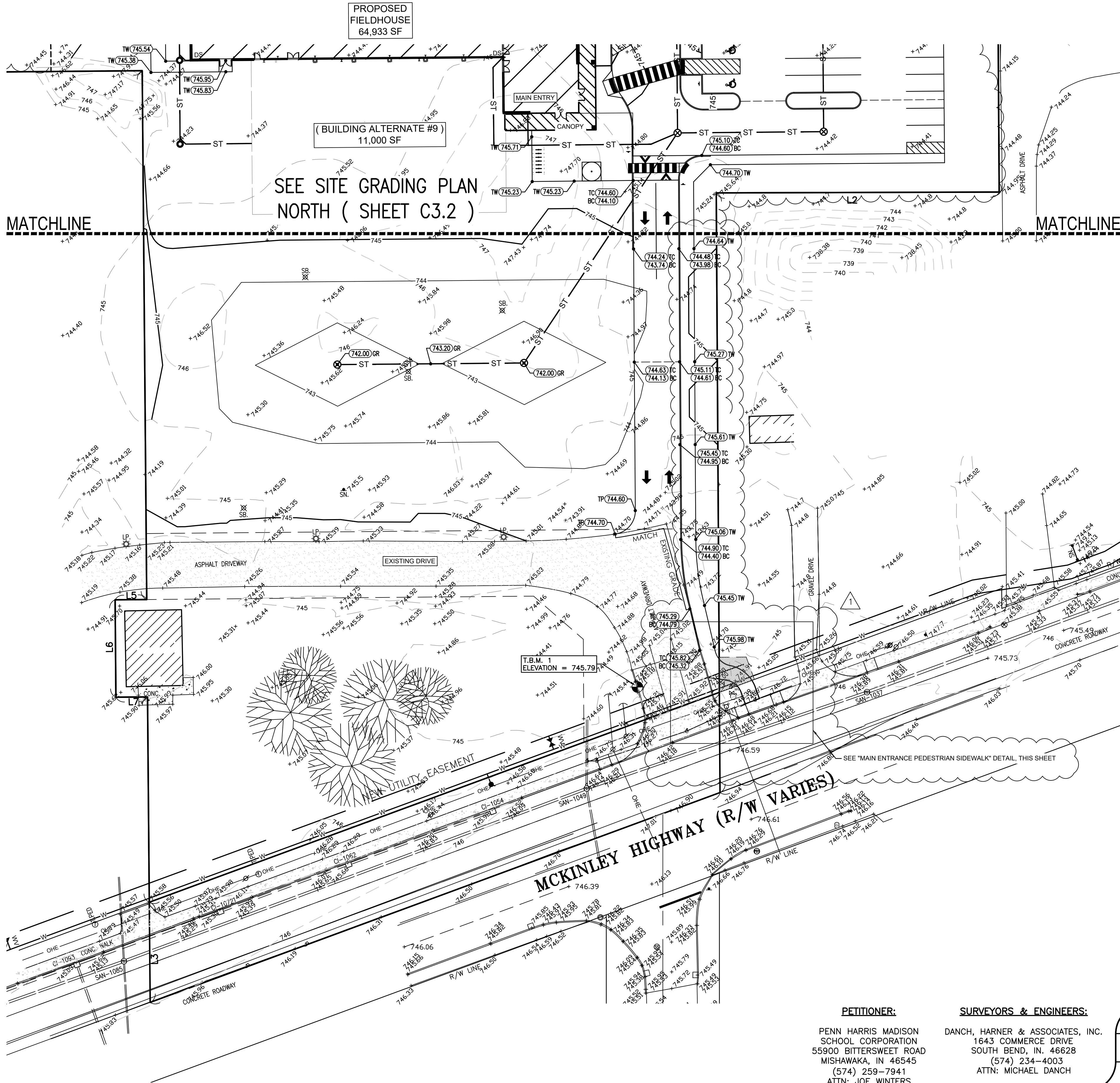
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ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

## PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)

PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,

PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA



MAIN ENTRANCE PEDESTRIAN SIDEWALK DETAIL  
1" = 10'

$$1'' = 10^9$$

## PROPOSED LEGEND

- |        |                      |
|--------|----------------------|
| ■      | PROPOSED INLET       |
| ●      | PROPOSED CLEAN OUT   |
| □      | PROPOSED HYDRANT     |
| ○      | PROPOSED LIGHT       |
| ●      | PROPOSED MANHOLE     |
| ●      | PROPOSED VALVE       |
| ●      | PROPOSED POLE        |
| ⊗      | PROPOSED CATCH BASIN |
| ⊗      | PROPOSED END SECTION |
| 100.00 | PROPOSED ELEVATION   |
| TW     | TOP OF WALK          |
| TS     | TOP OF CURB          |
| TP     | TOP OF PAVEMENT      |
| TC     | TOP OF CURB          |
| BC     | BOTTOM OF CURB       |
| —      | PROPOSED WATER       |
| —      | PROPOSED ELECTRIC    |
| —      | PROPOSED GAS LINE    |
| —      | PROPOSED TELEPHONE   |
| —      | PROPOSED CONTOUR     |

EXISTING    LEGEND

- [illegible]

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PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
ATTN: JOE WINTERS

SURVEYORS & ENGINEERS:

DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

DATE 01/10/24	DRAWN BY: ASM	R E V I S I O N S		
SCALE 1" = 30'	CHECKED BY: MJD	DATE 1/26/24	BY ASM	ADDENDUM: #1
FILE # 230228.5	PROJ. MANGR: MJD			

**Danch, Harner & Associates, Inc.**  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners

**DIA**

SHEET

### C3.1

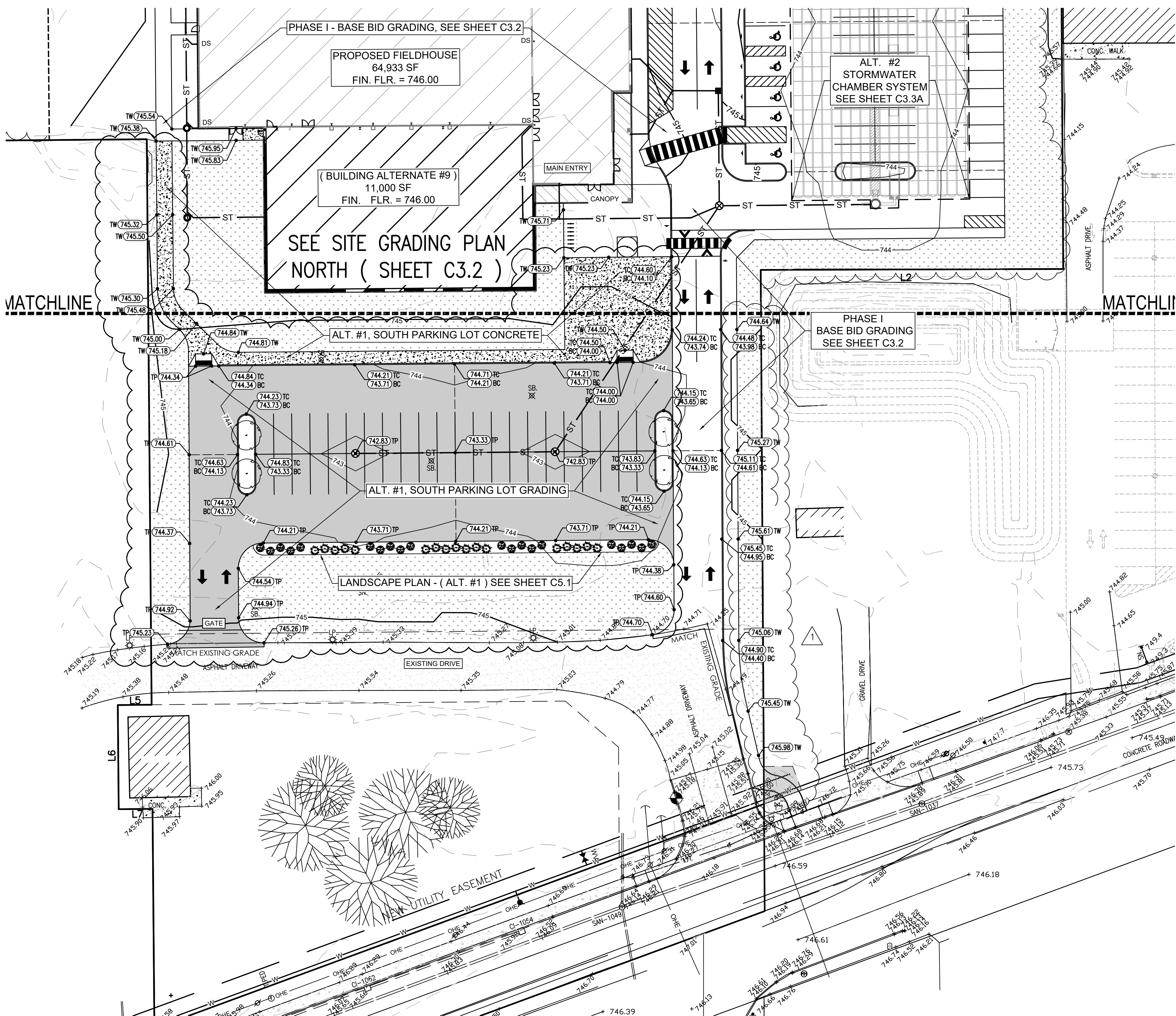
PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

PROPOSED LEGEND

- PROPOSED INLET
- PROPOSED CLEAN OUT
- PROPOSED HYDRANT
- PROPOSED LIGHT
- PROPOSED MANHOLE
- PROPOSED VALVE
- PROPOSED POLE
- PROPOSED CATCH BASIN
- PROPOSED END SECTION
- PROPOSED ELEVATION
- TOP OF WALK
- TS BOTTOM OF CURB
- TP TOP OF PAVEMENT
- TC TOP OF CURB
- BC BOTTOM OF CURB
- PROPOSED WATER
- PROPOSED ELECTRIC
- PROPOSED GAS LINE
- PROPOSED TELEPHONE
- PROPOSED CONTOUR

EXISTING LEGEND

- SET P.K. NAIL
- PINE TREE
- BUSH
- TREE
- FOUNTAIN/IRR.
- BOLLARD/POLE
- LIGHT POLE
- UTILITY POLE
- GUY ANCHOR
- SIGN
- WELL
- VALVE
- FIRE HYDRANT
- CURB INLET
- DRYWELL
- SANITARY MANHOLE
- STORM MANHOLE
- CLEAN-OUT
- FIBER OPTIC MANHOLE
- FOUND IRON
- MEASURED DISTANCE
- RECORD DISTANCE
- GAS METER
- WATER MANHOLE
- END SECTION
- ELEC. VAULT
- ELEC. TRANSFORMER
- PHONE VAULT
- SPOT ELEVATION
- EX. ELEVATION
- WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- SOIL BORING
- WATER METER
- CABLE PED.
- PHONE PED.
- ELEC. PED.
- MAILBOX
- A/C UNIT
- ELECTRIC
- ELECTRIC
- PHONE
- GAS
- CABLE TV
- WATER
- FIBER OPTIC
- STORM LINE
- SANITARY LINE



DRAINAGE CALCULATION: (ALT. #2 - CHAMBER SYSTEM)

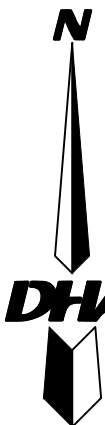
PHMSC FIELDHOUSE - FINAL SITE PLAN (PHASE 1)				
Post-Development	Area (ft <sup>2</sup> )	Area (ac)	Coefficient	Total
Impervious Surface	92,781	2.130	0.99	91,853
Building	80,685	1.852	1.00	80,685
Open Space	134,781	3.094	0.23	31,000
Total	308,247	7.076		203,538
Weighted Runoff Coefficient (c) =			0.66	
Required Storage Calculation				
25 year, 24 Hour Rainfall Intensity (i) =			0.205	
Q (0.93 x 0.205 in/hr x 1.13 ac) =			0.891	ft <sup>3</sup> /s
Storage Required (0.215 ft <sup>3</sup> /s x 24 h			46,260	ft <sup>3</sup>
Proposed Storage Calculation				
Total Basin Inf. Surf. Area =			27,500	ft <sup>2</sup>
Basin Depth =			5.0	ft
Proposed Basin			47,129	ft <sup>3</sup>
Storage Required:			46,260	ft <sup>3</sup>
Storage Provided:			47,009	ft <sup>3</sup>
Surplus Storage:			749	ft <sup>3</sup>

PETITIONER:

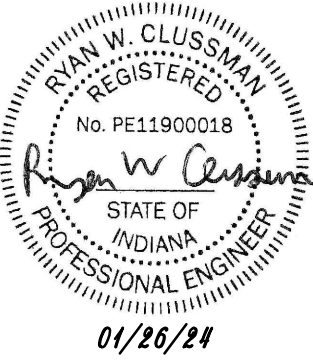
PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
ATTN: JOE WINTERS

SURVEYORS & ENGINEERS:

DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH



0 30 60 90  
SCALE 1" = 30'



(ALT. #1, #2, #8 & #9)  
SITE GRADING PLAN – SOUTH

DATE 01/10/24	DRAWN BY: ASM
SCALE 1" = 30'	CHECKED BY: MJD
FILE # 230228.5	PROJ. MNGR: MJD

REVISIONS			
DATE	BY	ADDENDUM #1	
1/26/24	ASM		

Danch, Harner & Associates, Inc.  
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Landscape Architects • Land Planners  
Office: (574) 234-4003 / (800) 394-4003 • Fax: (574) 234-4119  
1643 Commerce Drive • South Bend, IN 46628

DHA

SHEET

C3.1A

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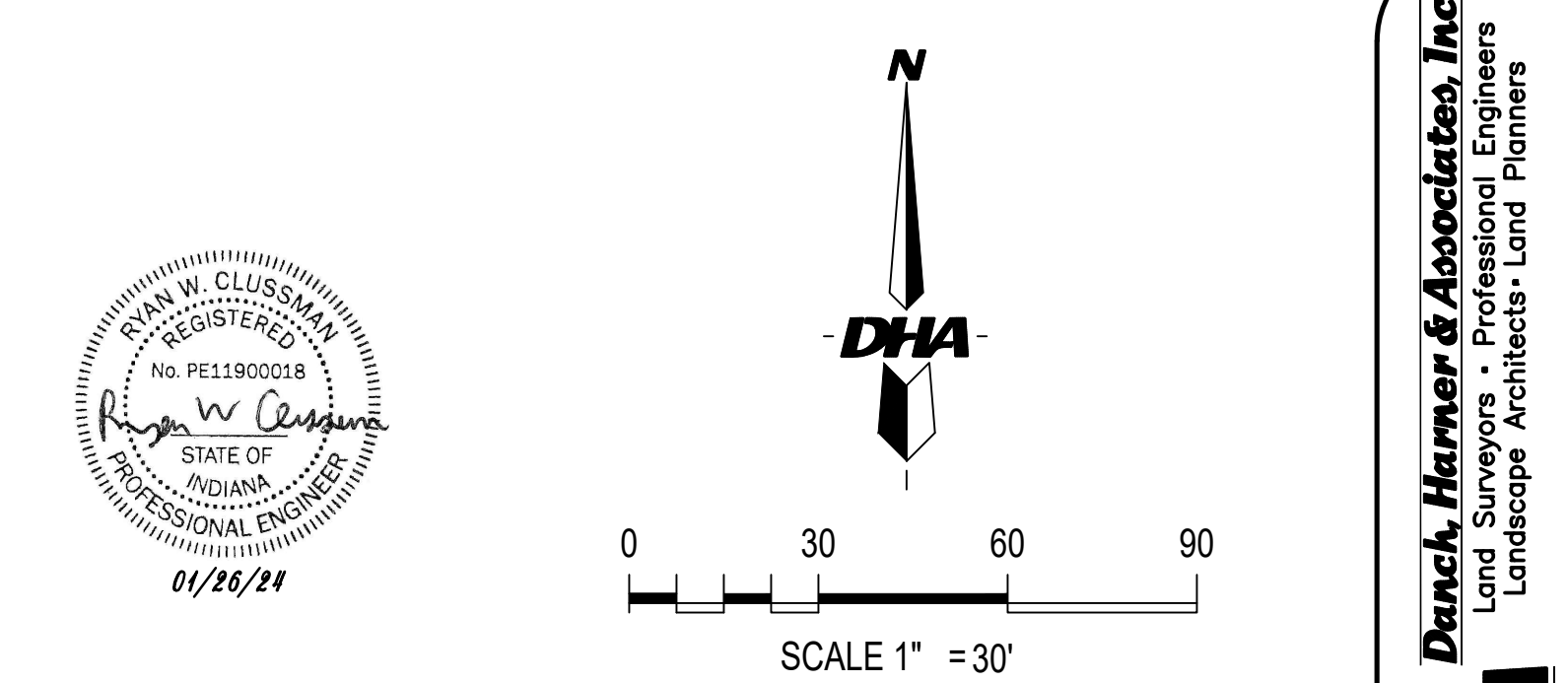
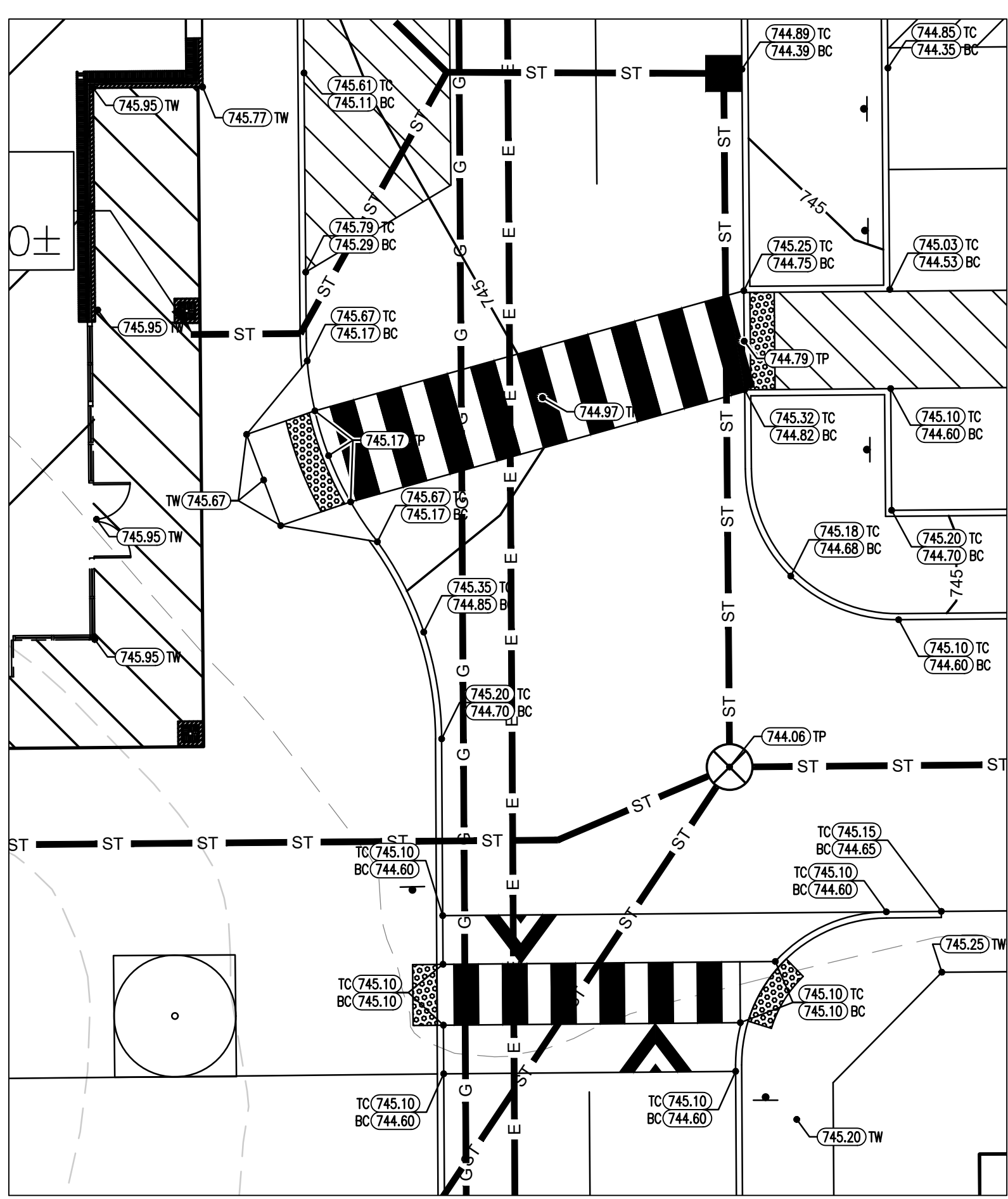
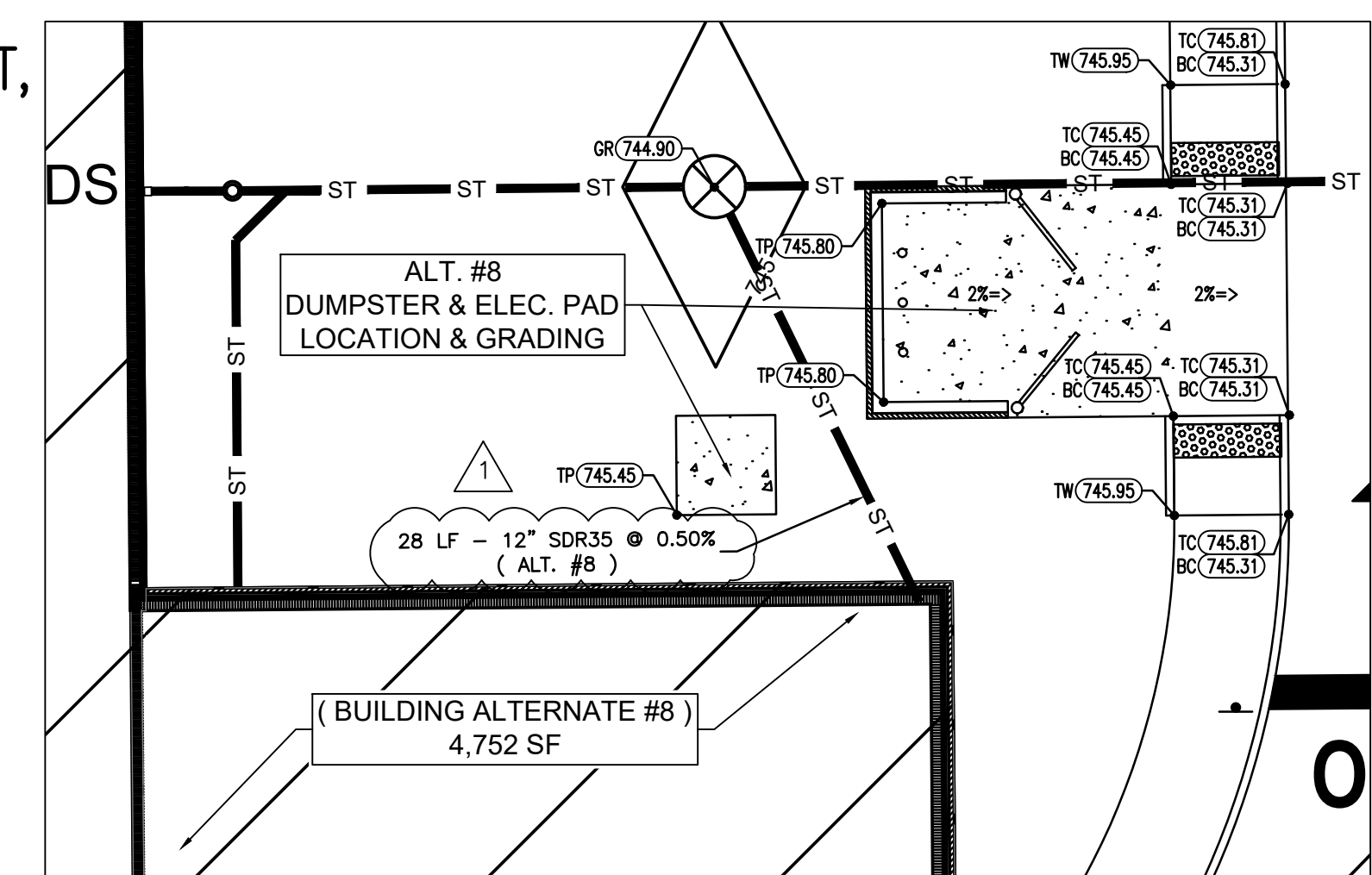
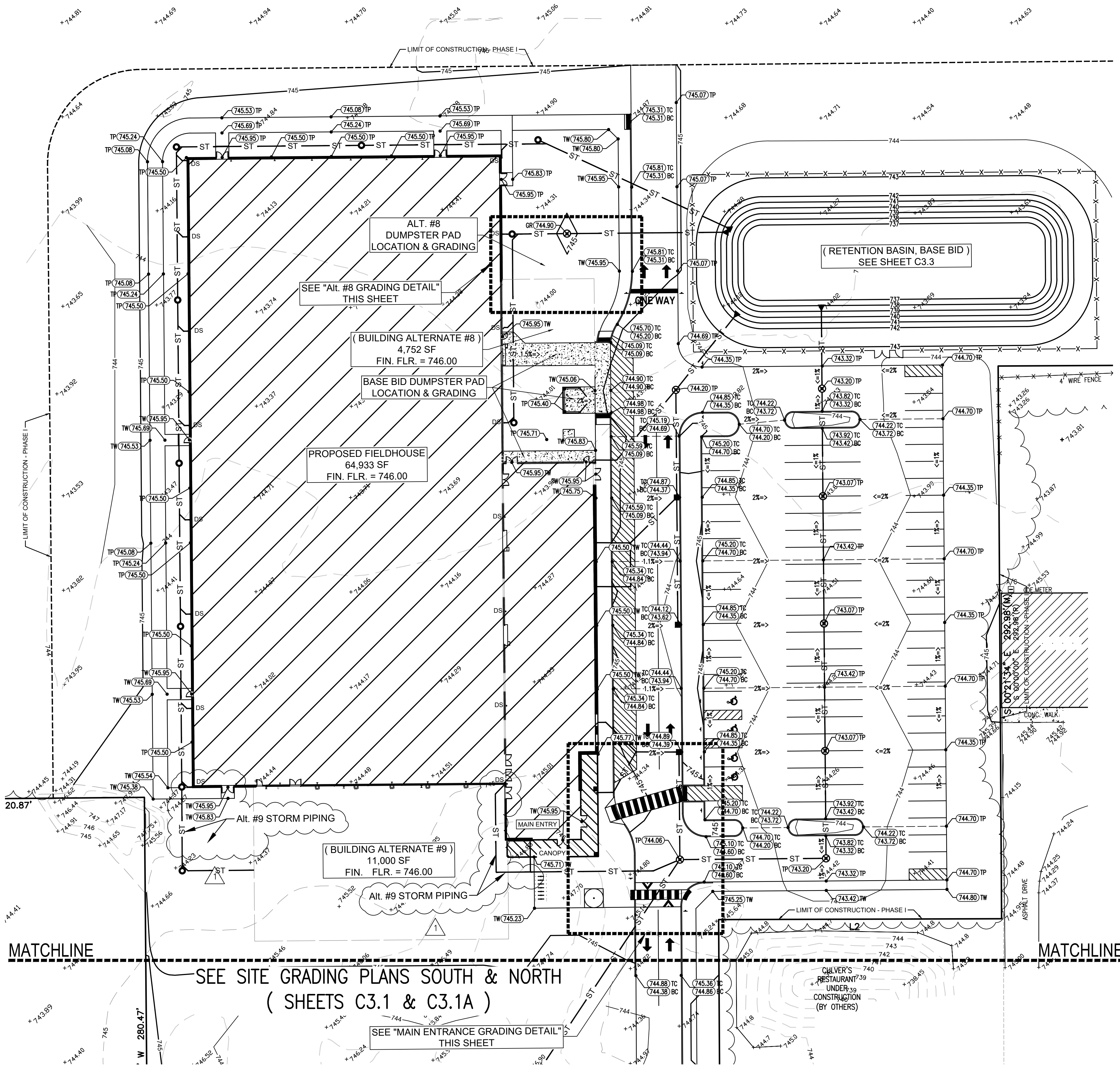
PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

PROPOSED LEGEND

- PROPOSED INLET
- PROPOSED CLEAN OUT
- PROPOSED HYDRANT
- PROPOSED LIGHT
- PROPOSED MANHOLE
- PROPOSED VALVE
- PROPOSED POLE
- PROPOSED CATCH BASIN
- PROPOSED END SECTION
- PROPOSED ELEVATION
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- PROPOSED GAS LINE
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- PROPOSED CONTOUR

EXISTING LEGEND

- SET P.K. NAIL
- FOUND IRON
- MEASURED DISTANCE
- RECORD DISTANCE
- PINE TREE
- BUSH
- TREE
- FOUNTAIN/IRR.
- BOLLARD/POLE
- LIGHT POLE
- UTILITY POLE
- GUY ANCHOR
- SIGN
- WELL
- VALVE
- FIRE HYDRANT
- CURB INLET
- DRYWELL
- SANITARY MANHOLE
- STORM MANHOLE
- CLEAN-OUT
- FIBER OPTIC MANHOLE
- GAS METER
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- ELEC. VAULT
- ELEC. TRANSFORMER
- PHONE VAULT
- SPOT ELEVATION
- EX. ELEVATION
- WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- ELECTRIC
- PHONE
- GAS
- CABLE TV
- WATER
- FIBER OPTIC
- STORM LINE
- SANITARY LINE



( BASE BID & ALT. #8 )  
SITE GRADING PLAN – NORTH

PETITIONER:  
PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
ATTN: JOE WINTERS

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1643 COMMERCE DRIVE  
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(574) 234-4003  
ATTN: MICHAEL DANCH

DATE	DRAWN BY:	REVISIONS
01/10/24	ASM	
SCALE	CHECKED BY:	DATE
1" = 30'	MJD	1/26/24
FILE #	PROJ. MNGR:	BY
230228.5	MJD	ASM
		ADDENDUM #1

**Danch, Harner & Associates, Inc.**  
Professional Engineers  
Landscape Architects - Land Planners  
Office: (574) 234-4003 / (800) 944-4003 • Fax: (574) 234-4119  
1643 Commerce Drive • South Bend, IN 46628

**DHA**

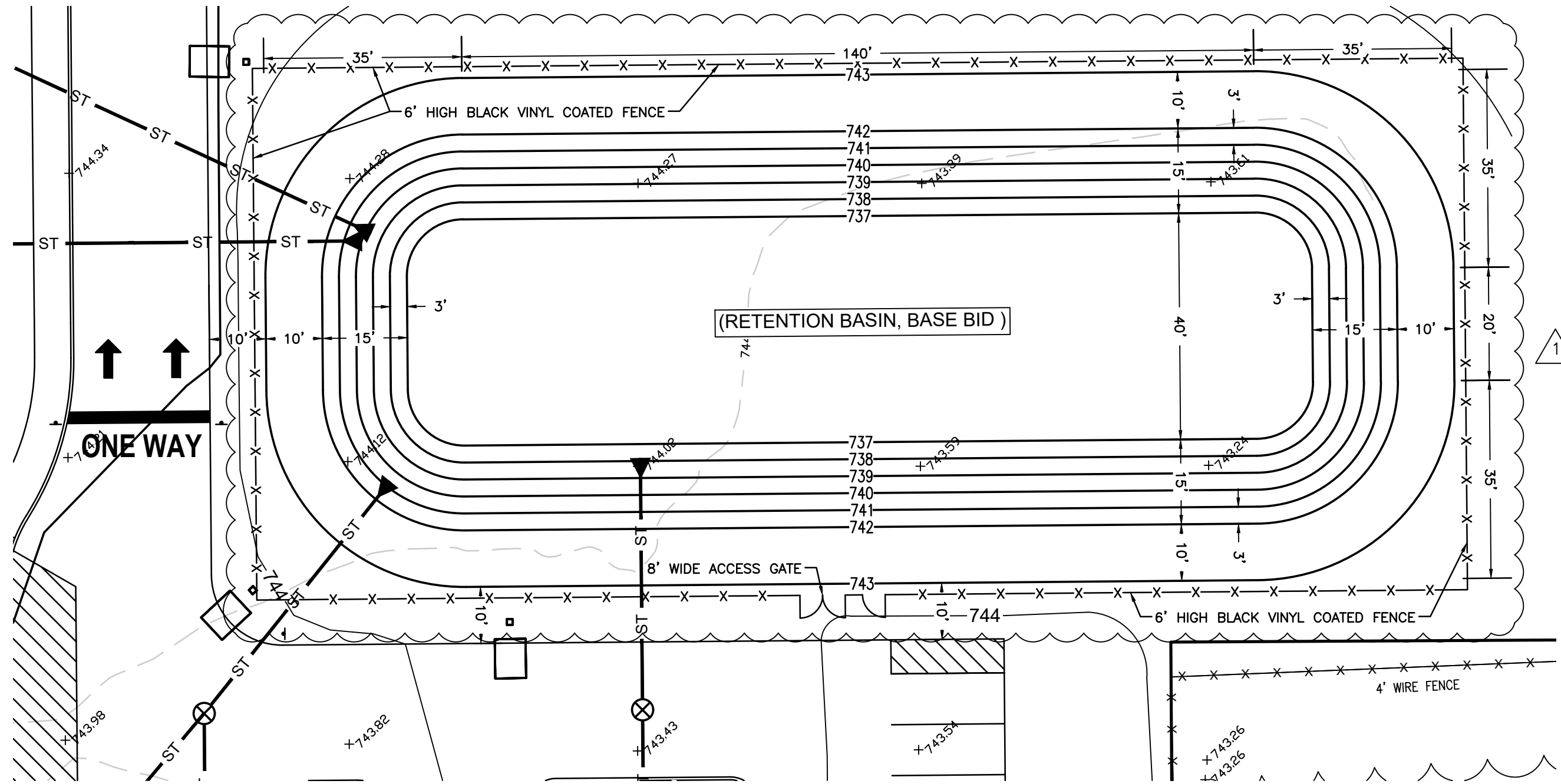
SHEET  
**C3.2**

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PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.



DRAINAGE CALCULATION: (RETENTION BASIN)

PHMSC FIELDHOUSE - FINAL SITE PLAN (PHASE 1)				
Post-Development	Area (ft <sup>2</sup> )	Area (ac)	Coefficient	Total
Impervious Surface	92,781	2.130	0.99	91,853
Building	80,685	1.852	1.00	80,685
Open Space	134,781	3.094	0.23	31,000
<b>Total</b>	<b>308,247</b>	<b>7.076</b>		<b>203,538</b>
Weighted Runoff Coefficient (c) =			<b>0.66</b>	
<b>Required Storage Calculation</b>				
25 year, 24 Hour Rainfall Intensity (i) =			<b>0.205</b>	
Q (0.93 x 0.205 in/hr x 1.13 ac) =			<b>0.891</b>	ft <sup>3</sup> /s
Storage Required (0.215 ft <sup>3</sup> /s x 24 h x 3600 s + 6% siltration) =			<b>46,260</b>	ft <sup>3</sup>
<b>Proposed Storage Calculation</b>				
Total Basin Inf. Surf. Area =			<b>27,500</b>	ft <sup>2</sup>
Basin Depth =			<b>5.0</b>	ft
Proposed Basin			<b>47,129</b>	ft <sup>3</sup>
<b>Storage Required:</b>			<b>46,260</b>	ft <sup>3</sup>
<b>Storage Provided:</b>			<b>47,129</b>	ft <sup>3</sup>
<b>Surplus Storage:</b>			<b>869</b>	ft <sup>3</sup>

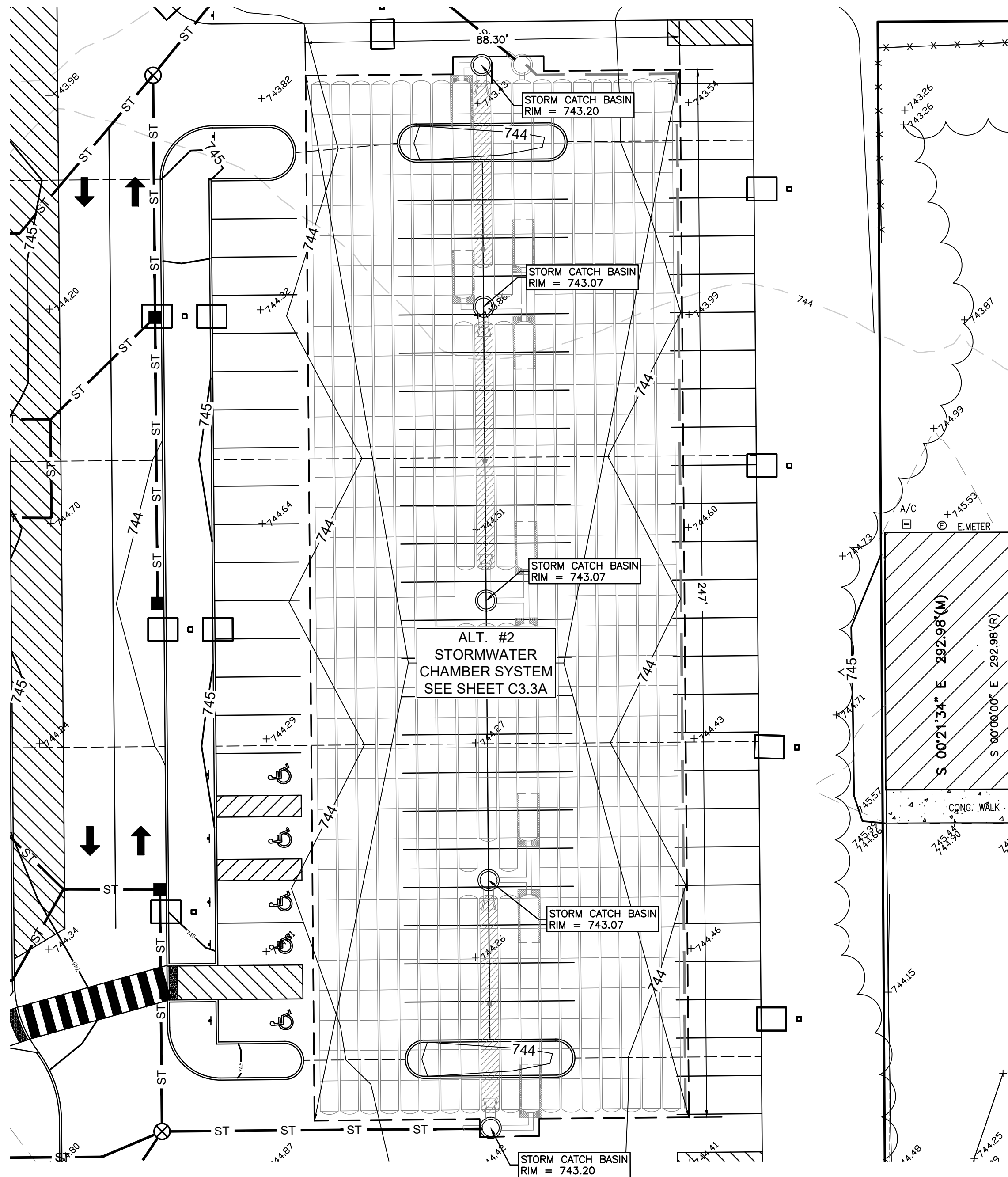
Project:	PHMSC FIELDHOUSE - FINAL SITE PLAN (PHASE 1)	Date:	12/7/2023
County:	ST. JOSEPH COUNTY, INDIANA.	Job No.:	230228.5
City/Town:	PENN TOWNSHIP		

Proposed Retention Basin Area				
Elevation	Area (Sq.Ft.)	Distance	Double Area	Volume (ft)
737	6314.16			
738	7490.93	1	13805.09	6902.545
739	8724.25	1	16215.18	8107.59
740	10014.11	1	18738.36	9369.18
741	11360.53	1	21374.64	10687.32
742	12763.5	1	24124.03	12062.015
743	17848.45	1	30611.95	15305.975
<b>VOLUME RETENTION POND</b>				<b>47,129 CFT</b>

BASE BID RETENTION BASIN

PROPOSED LEGEND	
■	PROPOSED INLET
●	PROPOSED CLEAN OUT
⦿	PROPOSED HYDRANT
□	PROPOSED LIGHT
●	PROPOSED MANHOLE
⊗	PROPOSED VALVE
⊙	PROPOSED POLE
⊗	PROPOSED CATCH BASIN
▶	PROPOSED END SECTION
(100.00)	PROPOSED ELEVATION
TW	TOP OF WALK
TS	BOTTOM OF CURB
TP	TOP OF PAVEMENT
TC	TOP OF CURB
BC	BOTTOM OF CURB
— W —	PROPOSED WATER
— E —	PROPOSED ELECTRIC
— G —	PROPOSED GAS LINE
— T —	PROPOSED TELEPHONE
—	PROPOSED CONTOUR

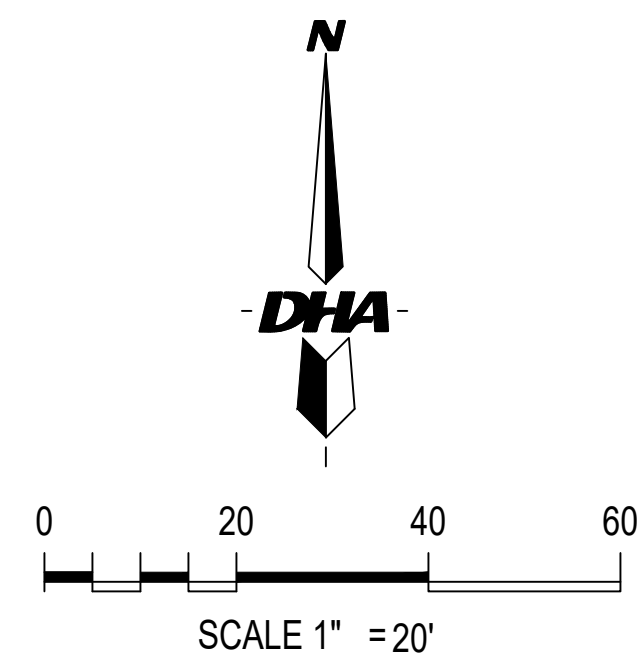
EXISTING LEGEND	
△ SET P.K. NAIL	● FOUND IRON
☆ PINE TREE	(N) MEASURED DISTANCE
⊙ BUSH	(R) RECORD DISTANCE
⊙ TREE	○ SET FLUSH, 5/8" CAPPED REBAR IN. REG. F-0044 MI. REG. #22436
⊙ FOUNTAIN/IRR.	⊗ GAS METER
⊙ BOLLARD/POLE	⊗ WATER MANHOLE
⊙ LIGHT POLE	⊗ END SECTION
⊙ UTILITY POLE	⊗ ELEC. VAULT
⊙ GUY ANCHOR	⊗ ELEC. TRANSFORMER
⊙ SIGN	⊗ PHONE VAULT
⊙ WELL	⊗ SPOT ELEVATION
⊙ VALVE	⊗ EX. ELEVATION
⊙ FIRE HYDRANT	⊗ WIRE FENCE
□ CURB INLET	⊗ CHAIN LINK FENCE
□ DRYWELL	⊗ WOOD FENCE
⊗ SANITARY MANHOLE	⊗ ONE — ONE — ELECTRIC
⊗ STORM MANHOLE	⊗ USE — USE — ELECTRIC
⊗ CLEAN-OUT	⊗ UT — UT — PHONE
⊗ FIBER OPTIC MANHOLE	⊗ UG — UG — GAS
	⊗ CTV — CTV — CABLE TV
	⊗ W — W — WATER
	⊗ FO — FO — FIBER OPTIC
	⊗ STORM LINE
	⊗ SANITARY LINE



DRAINAGE CALCULATION: (ALT. #2 - CHAMBER SYSTEM)

PHMSC FIELDHOUSE - FINAL SITE PLAN (PHASE 1)				
Post-Development	Area (ft <sup>2</sup> )	Area (ac)	Coefficient	Total
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Storage Required (0.215 ft <sup>3</sup> /s x 24 h x 3600 s + 6% siltration) =			<b>46,260</b>	ft <sup>3</sup>
<b>Proposed Storage Calculation</b>				
Total Basin Inf. Surf. Area =			<b>27,500</b>	ft <sup>2</sup>
Basin Depth =			<b>5.0</b>	ft
Proposed Basin			<b>47,129</b>	ft <sup>3</sup>
<b>Storage Required:</b>			<b>46,260</b>	ft <sup>3</sup>
<b>Storage Provided:</b>			<b>47,009</b>	ft <sup>3</sup>
<b>Surplus Storage:</b>			<b>749</b>	ft <sup>3</sup>

ALT. #2 RETENTION CHAMBER SYSTEM



( BASE BID & ALT. #2 RETENTION )  
SITE RETENTION PLAN

PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
ATTN: JOE WINTERS

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1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

DATE	DRAWN BY:	REVISIONS			
01/10/24	ASM	CHECKED BY:	DATE	BY	ADDENDUM #1
SCALE	MJD		1/26/24	ASM	
1" = 20'					
FILE #	PROJ. MNGR:				
230228.5	MJD				

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1643 Commerce Drive • South Bend, IN 46628

SHEET

C3.3

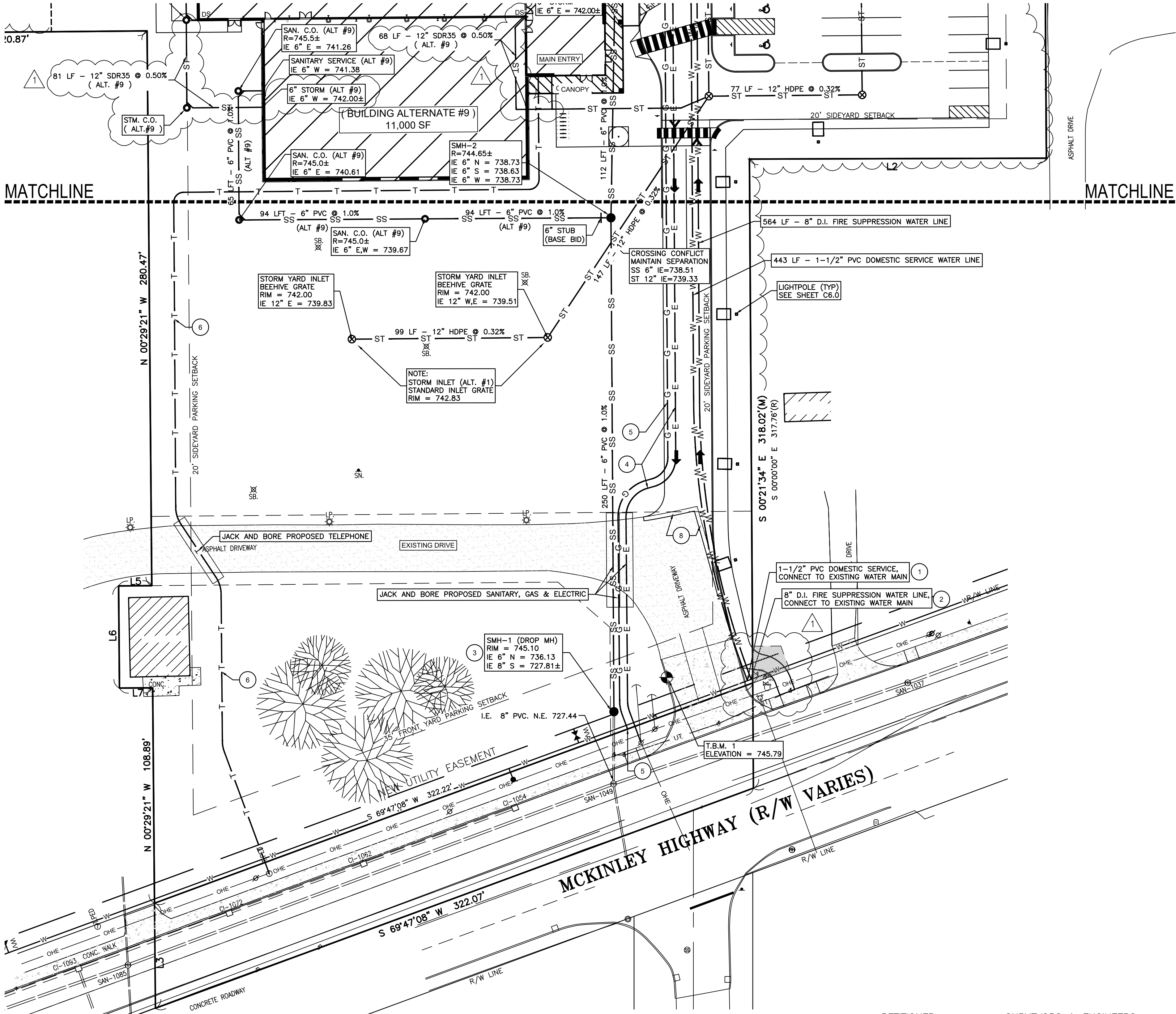
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## PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)

PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

SEE SITE UTILITY & DRAINAGE PLAN – NORTH ( SHEET C4.2



### UTILITY KEYNOTES:

- 1-1/2" COPPER DOMESTIC WATER SERVICE:  
INSTALL TAP & VALVE USING METHODS AND MATERIALS PER MISHAWAKA STANDARD SPECIFICATIONS. STOP BOXES SHALL BE LOCATED BEHIND THE CURB IN LANDSCAPE ISLAND. ONE (1) MAIN METER AND SUB-METERS PER ARCHITECT'S INTERNAL PLUMBING PLAN. COORDINATE ALL ACTIVITIES WITH MISHAWAKA WATER DEPARTMENT.
- 8" DUCTILE IRON WATER LINE FOR FIRE PROTECTION.  
PROVIDE 12" x 8" TAP & VALVE FROM 12" WATER MAIN. FIRE LINE TO SERVICE THE ENTIRE BUILDING. SEE ARCHITECT'S PLUMBING PLAN FOR INTERNAL SPLIT. WATER UTILITIES SHALL BE INSTALLED AND TESTED PER THE GENERAL CONSTRUCTION SPECIFICATIONS FOR THE MISHAWAKA UTILITIES WATER DIVISION.
- 6" SANITARY SEWER CONNECTION:  
PROVIDE A SANITARY SEWER "DROP MANHOLE" AT END OF THE EXISTING 8" SEWER EXTENSION LEADING NORTH FROM THE EXISTING SANITARY STRUCTURE #1049 LOCATED IN MCKINLEY HWY. PAVEMENT.  
PROVIDE 6" SDR 35 SANITARY SEWER MAIN FROM ROUTE LINE PER PLAN. INSTALL USING METHODS AND MATERIALS PER MISHAWAKA STANDARD SPECIFICATIONS. COORDINATE ALL ACTIVITIES WITH MISHAWAKA UTILITIES DEPARTMENT.  
NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. JACK AND BORE SANITARY SEWER UNDER THE EXISTING ASPHALT PAVED FIRE DEPARTMENT DRIVEWAY PER CITY OF MISHAWAKA STANDARD SPECIFICATIONS.
- ELECTRIC SERVICE: "POWER CO." TO PROVIDE UNDERGROUND SERVICE VIA TRANSFORMER. CONTRACTOR TO PROVIDE AND INSTALL 4" CONDUIT TO NEW CONNECTION LOCATION. SEE ARCHITECTURAL SHEETS FOR ELECTRICAL SCHEDULES. CONFIRM WITH ARCHITECT PRIOR TO WORK.
- NATURAL GAS SERVICE: NATURAL GAS SERVICE. COORDINATE PIPING WITH NIPSCO.
- TELEPHONE SERVICE: "TELEPHONE CO." TO PROVIDE UNDERGROUND SERVICE. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT WIRE TO NEW CONNECTION LOCATION AS DETERMINED BY OWNER/ARCHITECT.
- DOWNSPOUTS ARE TO BE CONNECTED TO 12" SDR 35 STORM SEWER SYSTEM AS SHOWN IN THE PLANS AT 0.5% SLOPE MINIMUM. INSTALL CLEAN-OUTS WERE NECESSARY FOR MAINTENANCE.
- PAVEMENT PATCH PER MISHAWAKA ENGINEERING STANDARDS. SEE PAVEMENT PATCH DETAIL IV-2 ON SHEET C7.1
- PROPOSED FIRE HYDRANT LOCATED PER MISHAWAKA FIRE DEPT. & WATER DEPT. SEE DETAIL ON SHEET C7.2.

### UTILITY NOTE

**UTILITY NOTE:**  
CONTRACTOR TO FIELD VERIFY LOCATION, SIZE AND  
INVERT OF "MAPPED" EXISTING SANITARY SEWER PRIOR  
TO INSTALLATION. NOTIFY ENGINEER OF ANY CONFLICTS  
PRIOR TO INSTALLATION. OPEN-CUT TRENCH ALL  
UTILITY CONNECTIONS PER CITY OF MISHAWAKA  
STANDARD SPECIFICATIONS.

\*EXCEPTION:  
THE CONTRACTOR SHALL JACK AND BORE ANY UTILITY  
CROSSING UNDER THE EXISTING FIRE DEPARTMENT  
ACCESS DRIVE LOCATED WITHIN THE EXISTING ROADWAY  
EASEMENT LOCATED ON THE SOUTH SIDE OF THE SITE.

## SITE UTILITY & DRAINAGE PLAN – SOUTH

DATE 01/10/24	DRAWN BY: ASM	R E V I S I O N S		
SCALE 1" = 30'	CHECKED BY: MJD	DATE 1/26/24	BY ASM	ADDENDUM #1
FILE # 230228.5	PROJ. MANGER: MJD			

**Danch, Harner & Associates, Inc.**  
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# ATA

SHEET

## C4.1

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TEMPORARY BENCHMARK INFORMATION:  
VERTICAL DATUM ESTABLISHED BY A TWO (2) GPS OBSERVATION  
POST PROCESSED BY OPUS (NAVD88)

T.B.M. 1: SET CUT SQUARE IN TOP OF CURB ALONG WEST LINE OF ENTRANCE  
ELEVATION = 745.79

PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
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1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

# UTILITY KEYNOTES:

- 1-1/2" COPPER DOMESTIC WATER SERVICE:  
INSTALL TAP & VALVE USING METHODS AND MATERIALS PER MISHAWAKA STANDARD SPECIFICATIONS. STOP BOXES SHALL BE LOCATED BEHIND THE CURB IN LANDSCAPE ISLAND. ONE (1) MAIN METER AND SUB-METERS PER ARCHITECT'S INTERNAL PLUMBING PLAN. COORDINATE ALL ACTIVITIES WITH MISHAWAKA WATER DEPARTMENT.
- 8" DUCTILE IRON WATER LINE FOR FIRE PROTECTION. PROVIDE 12" X 8" TAP & VALVE FROM 12" WATER MAIN. FIRE LINE TO SERVICE THE ENTIRE BUILDING. SEE ARCHITECT'S PLUMBING PLAN FOR INTERNAL SPLIT. WATER UTILITIES SHALL BE INSTALLED AND TESTED PER THE "GENERAL CONSTRUCTION SPECIFICATIONS" FOR THE MISHAWAKA UTILITIES WATER DIVISION.
- 6" SANITARY SEWER CONNECTION:  
PROVIDE A SANITARY SEWER "DROP MANHOLE" AT END OF THE EXISTING 8" SEWER EXTENSION LEADING NORTH FROM THE EXISTING SANITARY STRUCTURE #1049 LOCATED IN MCKINLEY HWY. PAVEMENT.  
PROVIDE 6" SDR 35 SANITARY SEWER MAIN FROM ROUTE LINE PER PLAN. INSTALL USING METHODS AND MATERIALS PER MISHAWAKA STANDARD SPECIFICATIONS. COORDINATE ALL ACTIVITIES WITH MISHAWAKA UTILITIES DEPARTMENT.  
NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO INSTALLATION. JACK AND BORE SANITARY SEWER UNDER THE EXISTING ASPHALT PAVED FIRE DEPARTMENT DRIVEWAY PER CITY OF MISHAWAKA STANDARD SPECIFICATIONS.
- ELECTRIC SERVICE: "POWER CO." TO PROVIDE UNDERGROUND SERVICE VIA TRANSFORMER. CONTRACTOR TO PROVIDE AND INSTALL 4" CONDUIT TO NEW CONNECTION LOCATION. SEE ARCHITECTURAL SHEETS FOR ELECTRICAL SCHEDULES. CONFIRM WITH ARCHITECT PRIOR TO WORK.
- NATURAL GAS SERVICE: NATURAL GAS SERVICE. COORDINATE PIPING WITH NIPSCO.
- TELEPHONE SERVICE: "TELEPHONE CO." TO PROVIDE UNDERGROUND SERVICE. CONTRACTOR TO PROVIDE AND INSTALL CONDUIT WIRE TO NEW CONNECTION LOCATION AS DETERMINED BY OWNER/ARCHITECT.
- DOWNSPOUTS ARE TO BE CONNECTED TO 12" SDR 35 STORM SEWER SYSTEM AS SHOWN IN THE PLANS AT 0.5% SLOPE MINIMUM. INSTALL CLEAN-OUTS WERE NECESSARY FOR MAINTENANCE.
- PAVEMENT PATCH PER MISHAWAKA ENGINEERING STANDARDS. SEE PAVEMENT PATCH DETAIL IV-2 ON SHEET C7.1
- PROPOSED FIRE HYDRANT LOCATED PER MISHAWAKA FIRE DEPT. & WATER DEPT. SEE DETAIL ON SHEET C7.2

## PROPOSED LEGEND

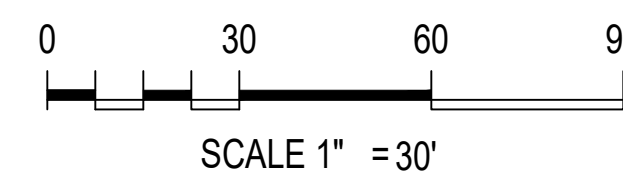
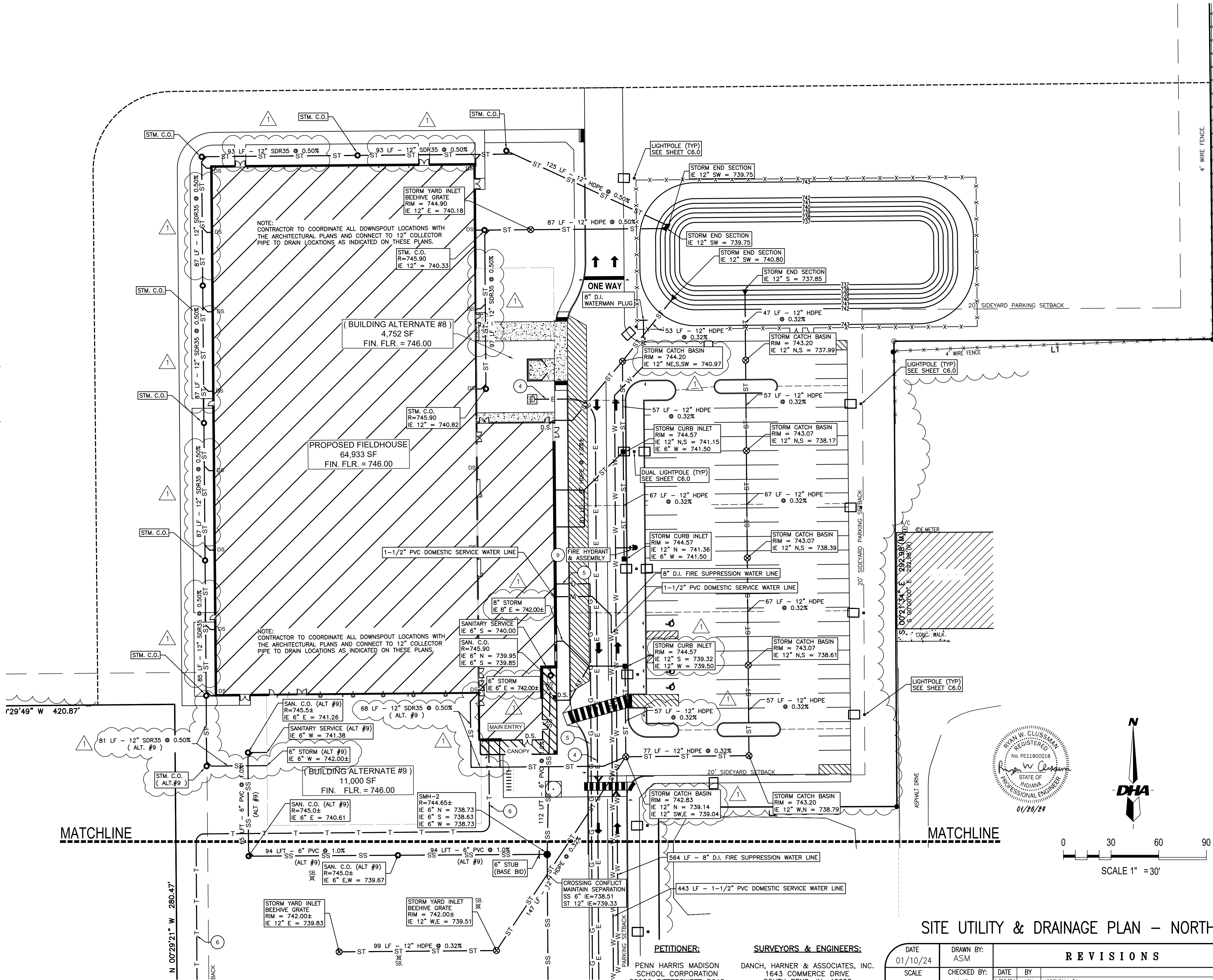
- PROPOSED INLET
- PROPOSED CLEAN OUT
- PROPOSED HYDRANT
- PROPOSED LIGHT
- PROPOSED MANHOLE
- PROPOSED VALVE
- PROPOSED POLE
- PROPOSED CATCH BASIN
- PROPOSED END SECTION
- PROPOSED ELEVATION
- TW TOP OF WALK
- TS BOTTOM OF CURB
- TP TOP OF PAVEMENT
- TC TOP OF CURB
- BC BOTTOM OF CURB
- PROPOSED WATER
- PROPOSED ELECTRIC
- PROPOSED GAS LINE
- PROPOSED TELEPHONE
- PROPOSED CONTOUR

## EXISTING LEGEND

- SET P.K. NAIL
- PINE TREE
- BUSH
- TREE
- FOUNTAIN/IRR.
- BOLLARD/POLE
- LIGHT POLE
- UTILITY POLE
- GUY ANCHOR
- SIGN
- WELL
- VALVE
- FIRE HYDRANT
- CURB INLET
- DRYWELL
- SANITARY MANHOLE
- STORM MANHOLE
- CLEAN-OUT
- FIBER OPTIC MANHOLE
- FOUND IRON
- MEASURED DISTANCE
- RECORD DISTANCE
- GAS METER
- WATER MANHOLE
- ELEC. VAULT
- ELEC. TRANSFORMER
- PHONE VAULT
- SPOT ELEVATION
- EX. ELEVATION
- WIRE FENCE
- CHAIN LINK FENCE
- WOOD FENCE
- ELECTRIC
- ELECTRIC
- PHONE
- GAS
- CABLE TV
- WATER
- FIBER OPTIC
- STORM LINE
- SANITARY LINE
- SOIL BORING
- WATER METER
- CABLE PED.
- PHONE PED.
- ELEC. PED.
- MAILBOX
- A/C UNIT

# PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)

## PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST, PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.



## SITE UTILITY & DRAINAGE PLAN – NORTH

DATE 01/10/24	DRAWN BY: ASM	REVISIONS	
SCALE 1" = 30'	CHECKED BY: MJD		
FILE # 230228.5	PROJ. MNGR: MJD	DATE 1/26/24	BY ASM
		ADDENDUM #1	

**PETITIONER:**  
PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
ATTN: JOE WINTERS

**SURVEYORS & ENGINEERS:**  
DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

SEE SITE UTILITY & DRAINAGE PLAN – SOUTH ( SHEET C4.1 )

**Danch, Harner & Associates, Inc.**  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners  
Office: (574)234-4003 / (800)344-4003 • Fax: (574)234-4119  
1643 Commerce Drive • South Bend, IN 46628

SHEET  
**C4.2**

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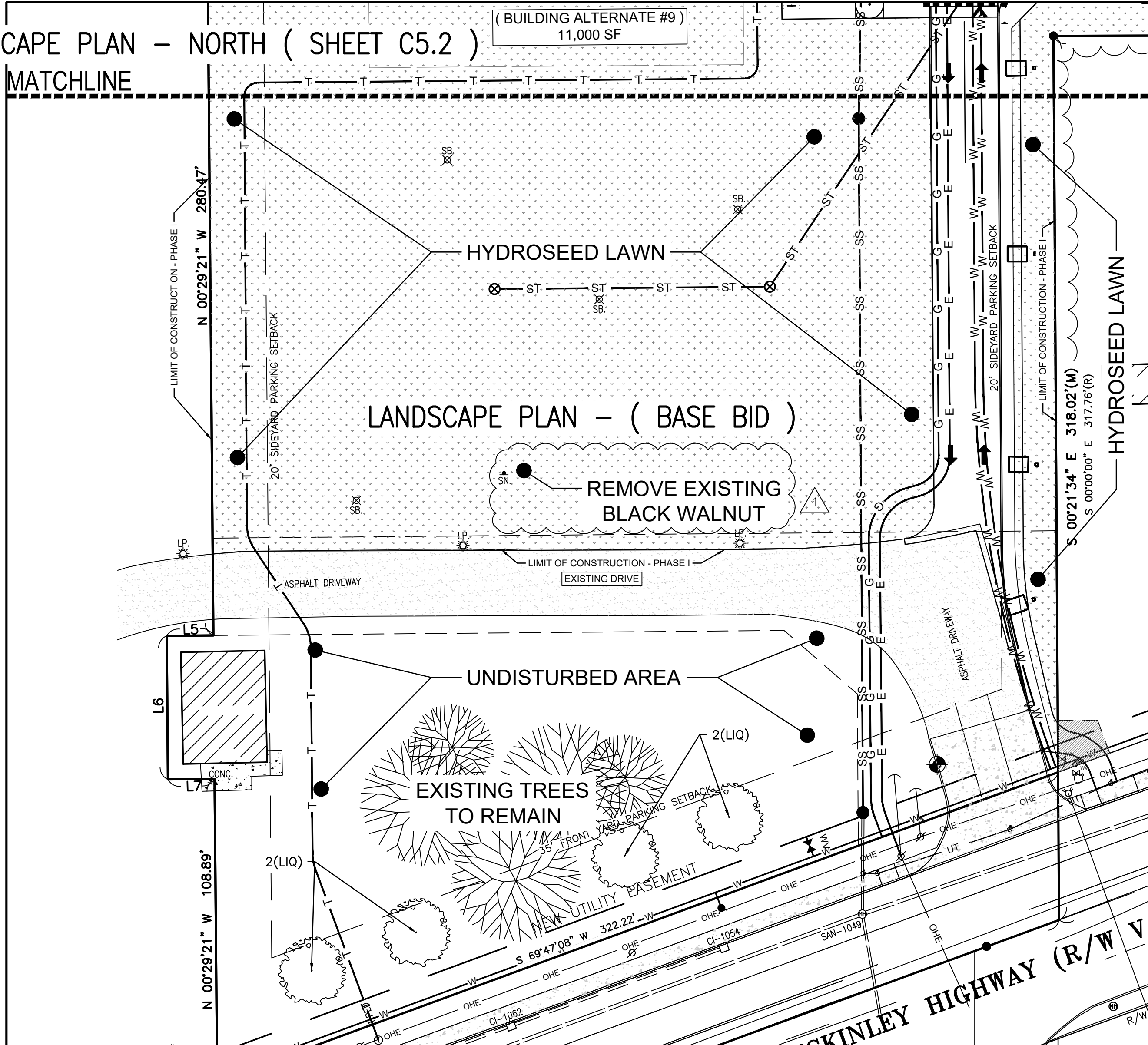
ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

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PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

( BUILDING ALTERNATE #9 )  
11,000 SF

## MATCHLINE



### PROPOSED LEGEND

- |          |                      |
|----------|----------------------|
| ■        | PROPOSED INLET       |
| ○        | PROPOSED CLEAN OUT   |
| ⦿        | PROPOSED HYDRANT     |
| □ = □    | PROPOSED LIGHT       |
| ●        | PROPOSED MANHOLE     |
| ⦿        | PROPOSED VALVE       |
| ⊗        | PROPOSED POLE        |
| ⊗        | PROPOSED CATCH BASIN |
| —        | PROPOSED END SECTION |
| (100.00) | PROPOSED ELEVATION   |
| TS       | TOP OF WALK          |
| TB       | BOTTOM OF CURB       |
| TP       | TOP OF PAVEMENT      |
| TC       | TOP OF CURB          |
| BC       | BOTTOM OF CURB       |
| — W      | PROPOSED WATER       |
| — E      | PROPOSED ELECTRIC    |
| — G      | PROPOSED GAS LINE    |
| — T      | PROPOSED TELEPHONE   |
| —        | PROPOSED CONTOUR     |

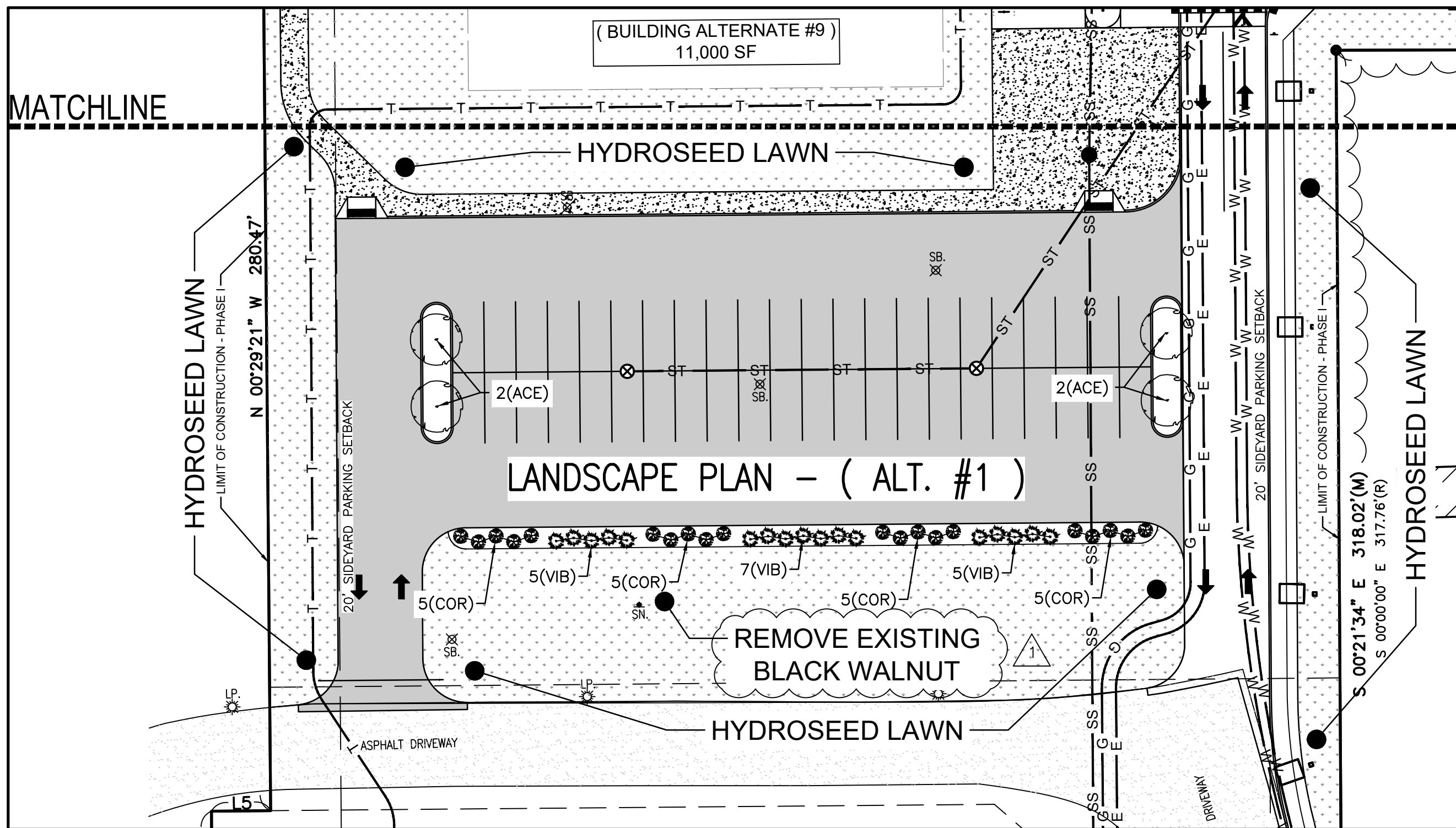
### EXISTING LEGEND

- |                       |                         |                   |
|-----------------------|-------------------------|-------------------|
| △ SET P.K. NAIL       | ● FOUND IRON            | SET FLUSH, 5/8"   |
| ☆ PINE TREE           | (M) MEASURED DISTANCE   | ○ CAPPED REBAR    |
| ☼ BUSH                | (R) RECORD DISTANCE     | IN. REC. = 10-044 |
| ☼ TREE                | ☐ GAS METER             | ML. REC. = 22-036 |
| ☼ FOUNTAIN/IRR.       | ☐ WATER MANHOLE         | ✗ S.O. BORING     |
| ☼ BOLLARD/POLE        | ▷ END SECTION           | W WATER METER     |
| ☼ LIGHT POLE          | ☐ ELEC. VAULT           | W CABLE PED.      |
| ☼ UTILITY POLE        | ☐ ELEC. TRANSFORMER     | ☐ PHONE PED.      |
| ☼ GUY ANCHOR          | ☐ PHONE VAULT           | ☐ ELEC. PED.      |
| ○ SIGN                | + X33.33 SPOT ELEVATION | ☐ MAILBOX         |
| ○ WELL                |                         | ☐ A/C UNIT        |
| ☐ VALVE               |                         |                   |
| ☐ FIRE HYDRANT        |                         |                   |
| ☐ CURB INLET          |                         |                   |
| ☐ DRYWELL             |                         |                   |
| ☐ STORM MANHOLE       |                         |                   |
| ☐ SITY MANHOLE        |                         |                   |
| ☐ CLEAN-OUT           |                         |                   |
| ☐ FIBER OPTIC MANHOLE |                         |                   |

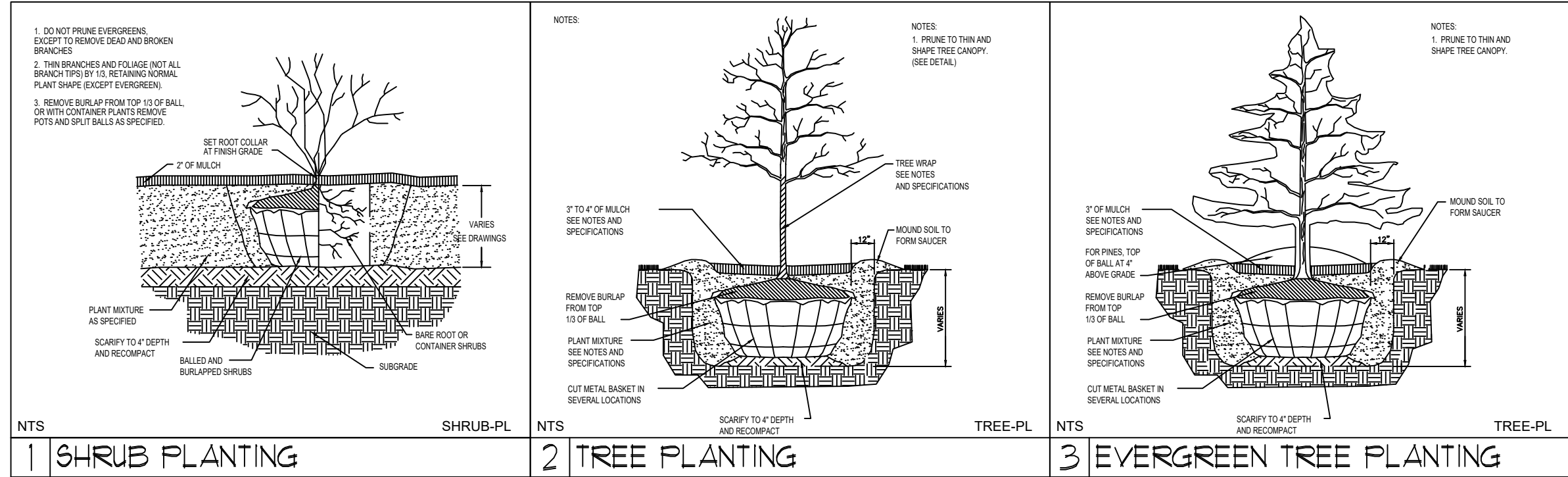
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ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

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PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW ENTIRE PLAN SET.  
IF ANY DISCREPANCIES ARE FOUND, CONTRACTOR SHALL CONTACT ENGINEER  
FOR CLARIFICATION AND/OR REVISIONS.



## LANDSCAPE PLAN QUANTITIES - (SOUTH)

TREES

QUANTITIES BASE BID	QUANTITIES ALT #1	ABBR	COMMON NAME	BOTANICAL NAME	SIZE	CONT	REMARKS
4	4	UQ	AMERICAN SWEETGUM	LIQUIDAMBAR STYRACIFLUA 'MORAINÉ'	3" CAL.	B&B	
—	4	ACE	OCTOBER GLORY MAPLE	ACER RUBRUM 'OCTOBER GLORY'	3" CAL.	B&B	
—	—	TAV	TECHNY ARBOR VITAE	THUJA 'TECHNY' ARBOR VITAE	6" TALL	B&B	

## SHRUBS

QUANTITIES BASE BID	QUANTITIES ALT #1	ABBR	COMMON NAME	BOTANICAL NAME	SIZE	CONT	REMARKS
—	17	VIB	KOREANSPICE VIBURNUM	VIBURNUM CARLESII	24" HT.	5 GAL.	
—	20	COR	RED TWIG DOGWOOD	CORNUS SERICEA 'CARDINAL'	36" HT.	B&B	

## ORNAMENTAL GRASSES

QUANTITIES BASE BID	QUANTITIES ALT #1	ABBR	COMMON NAME	BOTANICAL NAME	SIZE	CONT	REMARKS
—	—	PEN	DWARF FOUNTAIN GRASS	PENNISETUM ALOPECURIODES 'HAMELN'	15" HT.	3 GAL.	

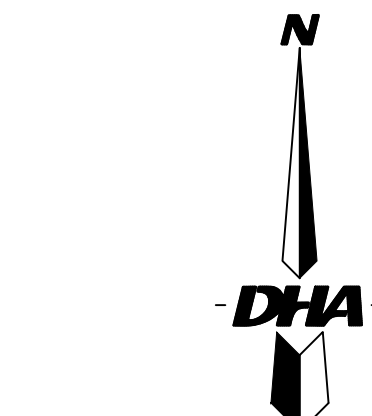
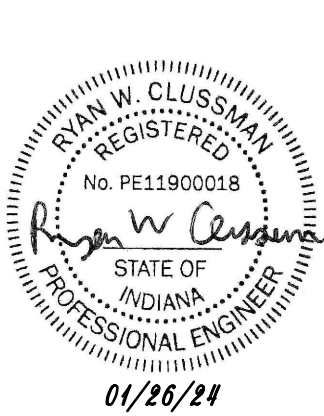
GENERAL LANDSCAPE NOTE

1. CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY ALL UTILITY COMPANIES AND VERIFY LOCATION OF ALL PRIVATE AND PUBLIC ON SITE UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL SITE CONDITIONS WHICH MAY EFFECT THE LANDSCAPE PLANT MATERIALS AND SITE AMENITY INSTALLATION. CONTRACTOR ALSO MUST NOTIFY LANDSCAPE ARCHITECT OF ANY CONDITIONS THAT MAY BE DETRIMENTAL TO HEALTHY PLANT DEVELOPMENT, OR MAY CAUSE VOID TO PLANT WARRANTY.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL LANDSCAPE MATERIALS IN ACCORDANCE WITH THE LATEST EDITION OF THE "USA STANDARD FOR NURSERY STOCK", PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERY MEN, INC.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR A MINIMUM OF (1) YEAR GUARANTEE FOR ALL PLANT MATERIALS FROM THE DATE OF SUBSTITUTIONAL COMPLETION. ANY DEAD PLANT MATERIAL SHALL BE REPLACED WITH MATERIAL EQUAL IN SIZE AND QUALITY AS LISTED IN THE MASTER PLANT LIST. ALL COST FOR REPLACING PLANT MATERIALS WITHIN THE GUARANTEE PERIOD WILL BE AT THE RESPONSIBILITY OF THE CONTRACTOR.
5. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER WORK DISCIPLINES TO ENSURE NO CONFLICT BETWEEN WORK TYPES.
6. ALL DECIDUOUS TREES AND EVERGREEN TREES SHALL BE BALLED AND BURLAP UNLESS OTHERWISE NOTED.
7. ALL SHRUBS MAY BE CONTAINER GROWN OR BALLED AND BURLAP.
8. THE CALIPER SIZE LISTED ON THE MASTER PLANT LIST INDICATES THE DIAMETER OF THE TRUNK TAKEN AT 6" ABOVE THE GROUND LEVEL.
9. SPACE PLANT MATERIALS AS INDICATED ON MASTER PLANT LIST OR PER PER FORMER HORTICULTURAL METHODS.
10. CONTRACTOR SHALL PROVIDE A TWO YEAR STRAIGHTENING GUARANTEE IN LIEU OF STACKING AND GUYING TREES.
11. CONTRACTOR SHALL VERIFY QUALITIES OF PROPOSED PLANT MATERIALS AND SITE AMENITIES SHOW ON THE MASTER MATERIALS LIST AND PLANS. IF A DISCREPANCY APPEARS, THE ACTUAL COUNT ON THE PLANS SHALL CONTROL.
12. KEEP BALLED AND CONTAINER PLANT MATERIAL WATERED UNTIL THEY ARE PLANTED. IF PLANTS CANNOT BE PLANTED IMMEDIATELY, THEY SHOULD BE HEeled IN AND COVERED WITH MULCH UNTIL TIME OF PLANTING.
13. CONDUCT SOILS TEST TO VERIFY FERTILITY OF TOPSOIL. AMEND SOIL IF PH IS LESS THAN 5.0 OR GREATER THAN 7.5. MAKE OTHER ADJUSTMENTS AS SOIL ANALYSIS INDICATES. ALL FINE GRADE SOIL PREPARATION OF PLANTINGS AND LAWN AREAS SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR UNLESS OTHERWISE SPECIFIED.
14. TOPSOIL DEPTH TO BE A MINIMUM OF 6" IN ALL PLANTING BEDS AND 3" IN LAWN AREAS. GENERAL CONTRACTOR IS TO PROVIDE THE REMAINING 6" OF TOPSOIL TO BE PROVIDED BY THE LANDSCAPE CONTRACTOR TO PROVIDE FINAL APPLICATION AND PLANT MATERIAL INSTALLATION. TOPSOIL TO BE CLEAN RENEW LOAM FROM LOCAL SOURCE AND STONES AND DEBRIS OVER 3/4" IN DIAMETER. TOPSOIL MUST BE FREE FROM TOXINS AND HERBICIDES.
15. LANDSCAPE BEDS SHALL BE DEFINED BY COMMERCIAL GRADE 3" BLACK VINYL EDGING, PRODUCED BY AN ESTABLISHED MANUFACTURER OR APPROVED EQUAL.
16. LANDSCAPE BEDS TO RECEIVE 3" - 4" INDIAN STANDARD SHREDED HARDWOOD BARK MULCH.
17. ALL TREES NOT INCORPORATED INTO THE LANDSCAPE BEDS ARE TO RECEIVE A 3 RADIIUS MULCH RING, 3" DEEP.
18. APPLY PRE-EMERGENT HERBICIDE TO ALL LANDSCAPE BEDS PRIOR TO MULCHING.
19. HYDROSEED: INSTALL HYDROSEED PER COMMON INDUSTRY STANDARDS WHERE INDICATED ON PLANS.  
SEED MIXTURE:  
37.50% PERENNIAL RYE  
37.50% CRYSTAL BLUE  
31.50% CREEPING REED FESCUE
20. ALL LANDSCAPE & LAWN AREAS SHALL BE 100% IRRIGATED, IF APPROVED BY OWNER. IRRIGATION CONTRACTOR IS REQUIRED IRRIGATION STRUCTURES, PIPES, TAPS, VALVES, WIRING, BACK FLOW PREVENTERS, METERS, ETC. ALL IRRIGATION BE COORDINATED AND INSTALLED PRIOR TO PAVEMENT INSTALLATION BY THE SITE CONTRACTOR. ALL IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND APPROVED LANDSCAPE ARCHITECT PRIOR TO ANY

### UTILITY INFORMATION

THE ENGINEER HAS INDICATED UNDERGROUND UTILITIES ON THESE PLANS BASED UPON INFORMATION PROVIDED BY THE VARIOUS UTILITIES. THE ACCURACY AND COMPLETENESS OF THE INFORMATION IS UNKNOWN AND THE ENGINEER ACCEPTS NO LIABILITY FOR UTILITY INFORMATION.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE UTILITIES, PROTECTING ALL UTILITIES, PAYING ALL COSTS FOR DAMAGE TO UTILITY FACILITIES, AND RETURNING TO A CONDITION NOT WORSE THAN THE ORIGINAL EXISTING CONDITION AT THE START OF THIS PROJECT. THE CONTRACTOR SHALL NOT BEGIN UNDERGROUND WORK UNTIL ALL UTILITIES HAVE BEEN ACCURATELY LOCATED ON THE GROUND. WATER MAINS SHALL BE IDENTIFIED BY LOCATION AND SCALED FROM MAPS PROVIDED BY THE CITY OF SOUTH BEND WATER DEPT.



( BASE BID & ALT. #1 )  
SITE LANDSCAPE PLAN – SOUTH

## REVISIONS

DATE 01/10/24	DRAWN BY: ASM	R E V I S I O N S		
SCALE 1" = 30'	CHECKED BY: MJD	DATE 1/26/24	BY ASM	ADDENDUM #1
FILE # 230228.5	PROJ. MANGR: MJD			

**DUNCAN, TURNER & ASSOCIATES, INC.**  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners

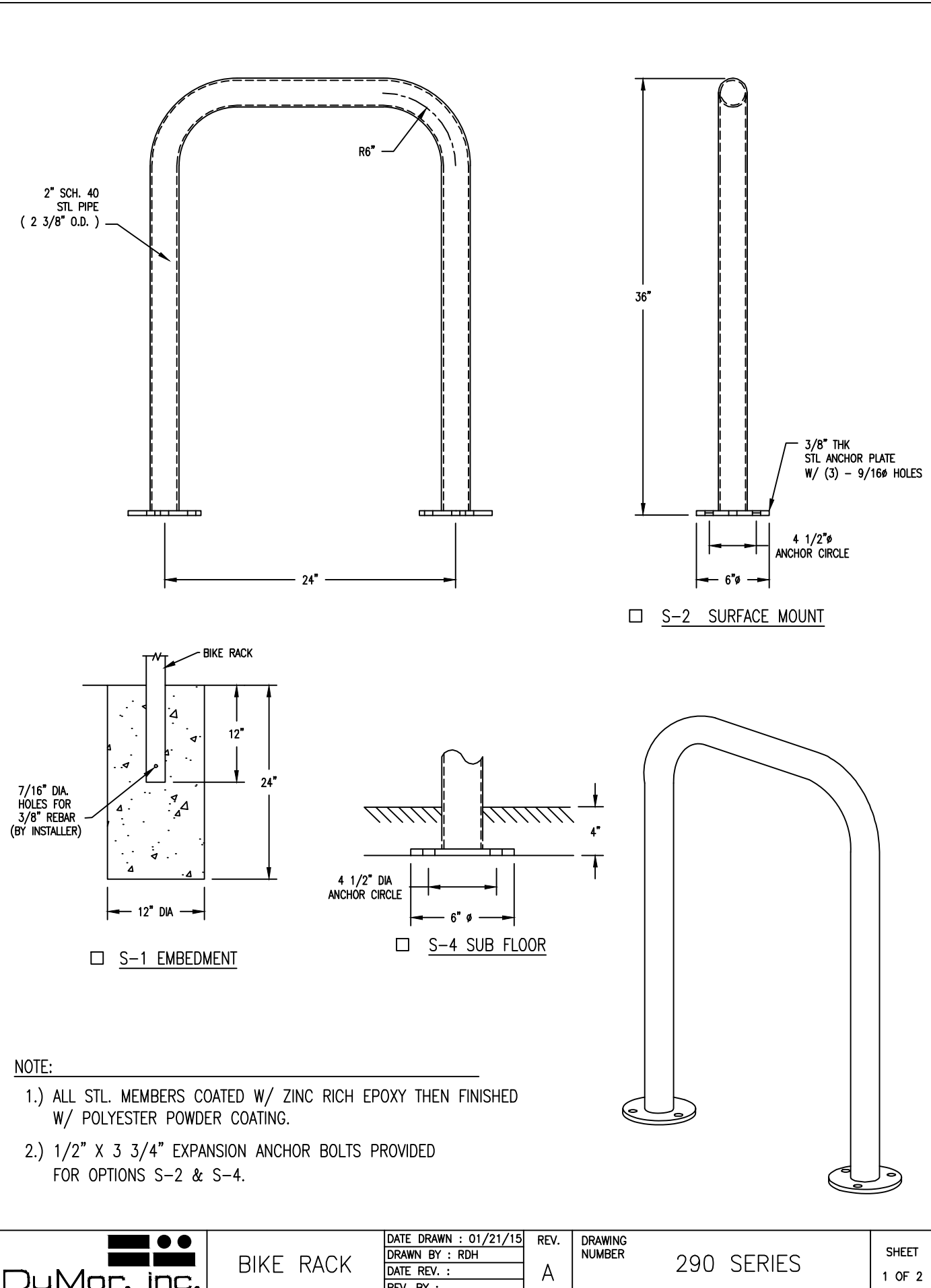
**DHA**

SHEET

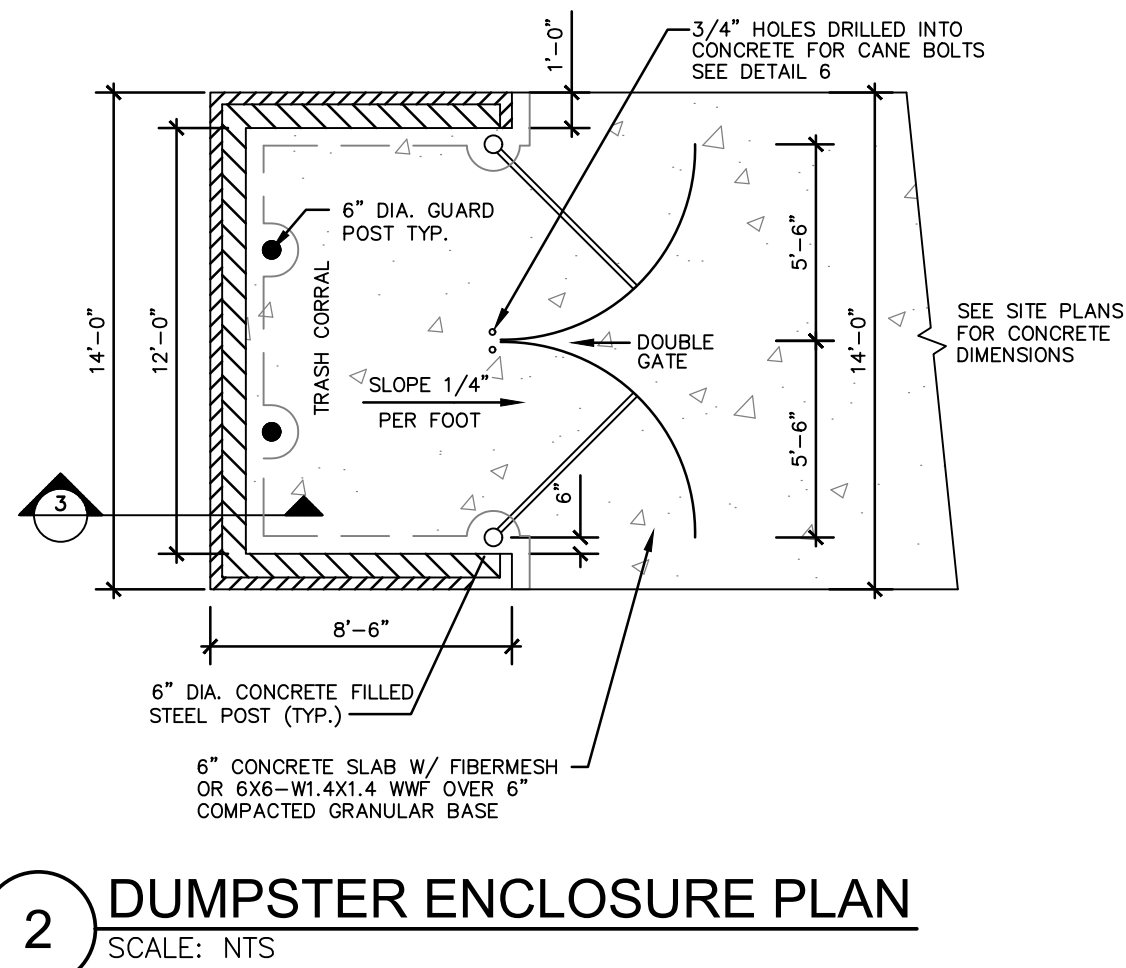
## C5.1

## PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)

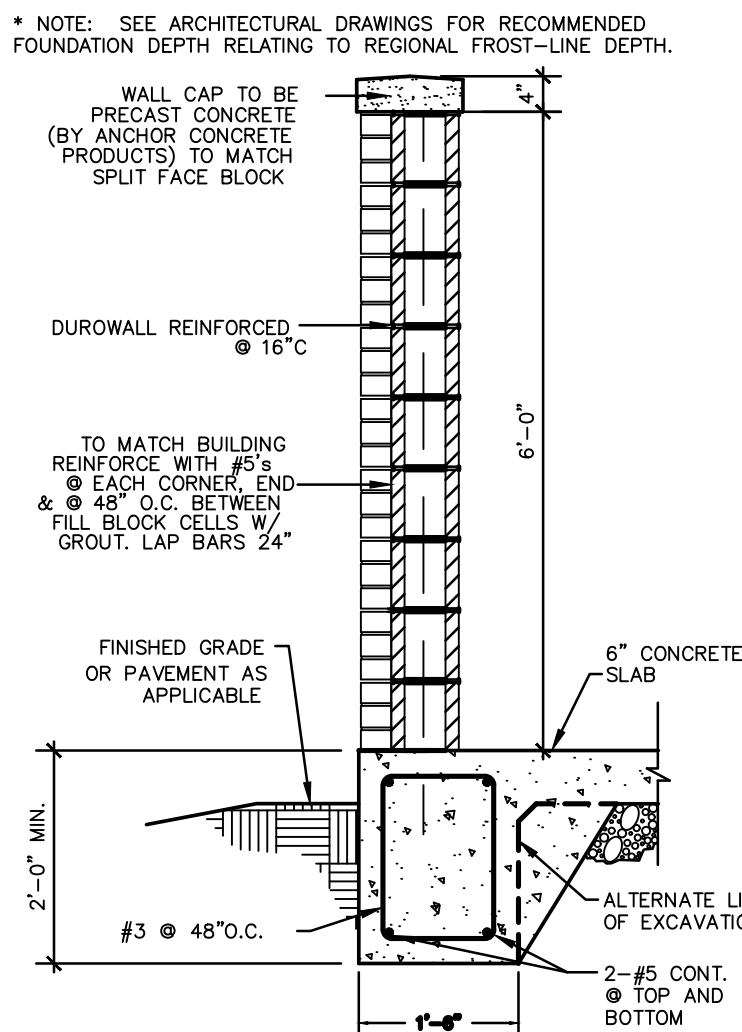
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.



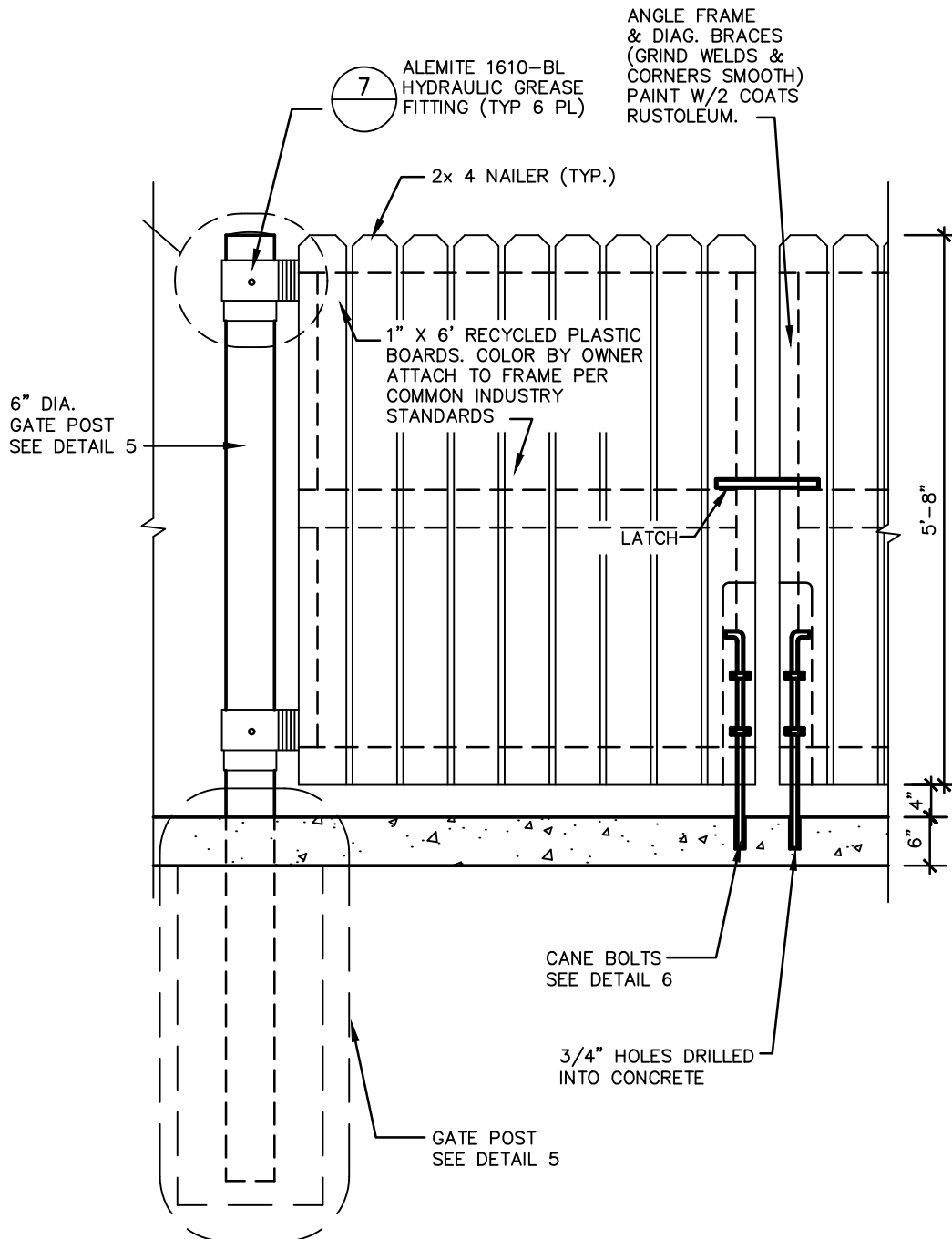
1 BIKE RACK  
SCALE: NTS



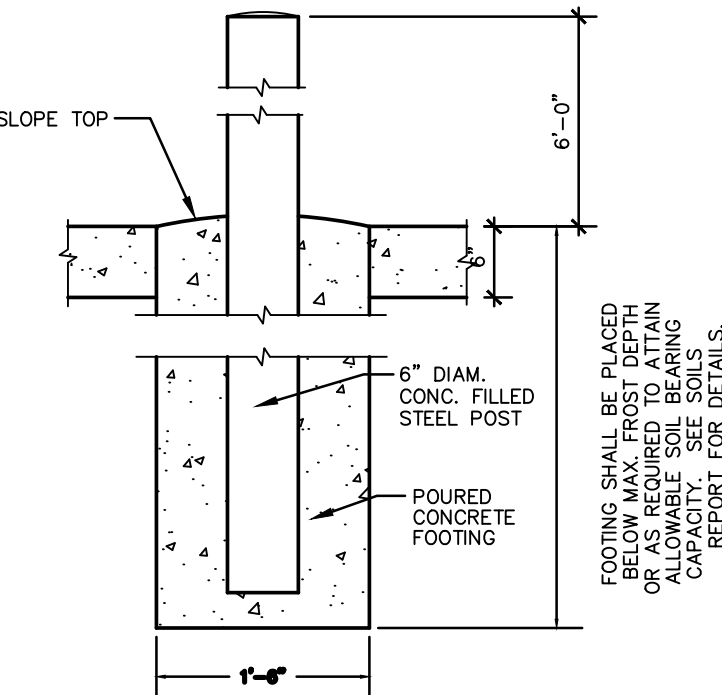
## 2 DUMPSTER ENCLOSURE PLAN



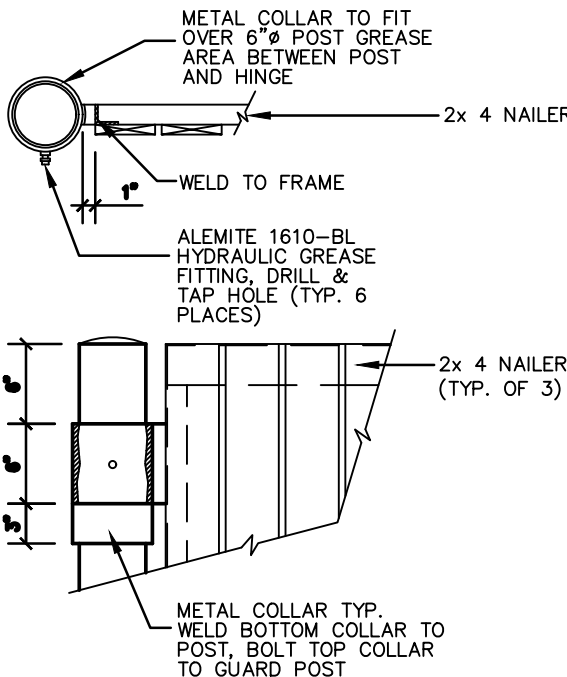
### 3 TYPICAL WALL SECTION



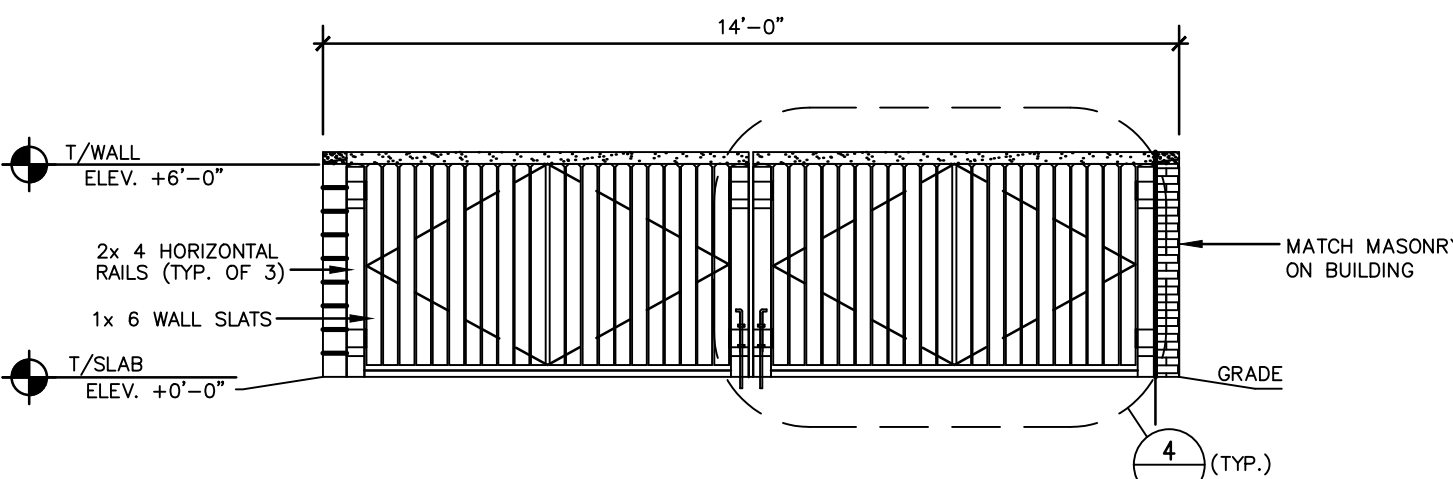
4 TYPICAL GATE DETAIL  
SCALE: NTS



5 TYPICAL GATE POST DETAIL  
SCALE: NTS



7 TYPICAL HINGE DETAIL  
SCALE: NTS

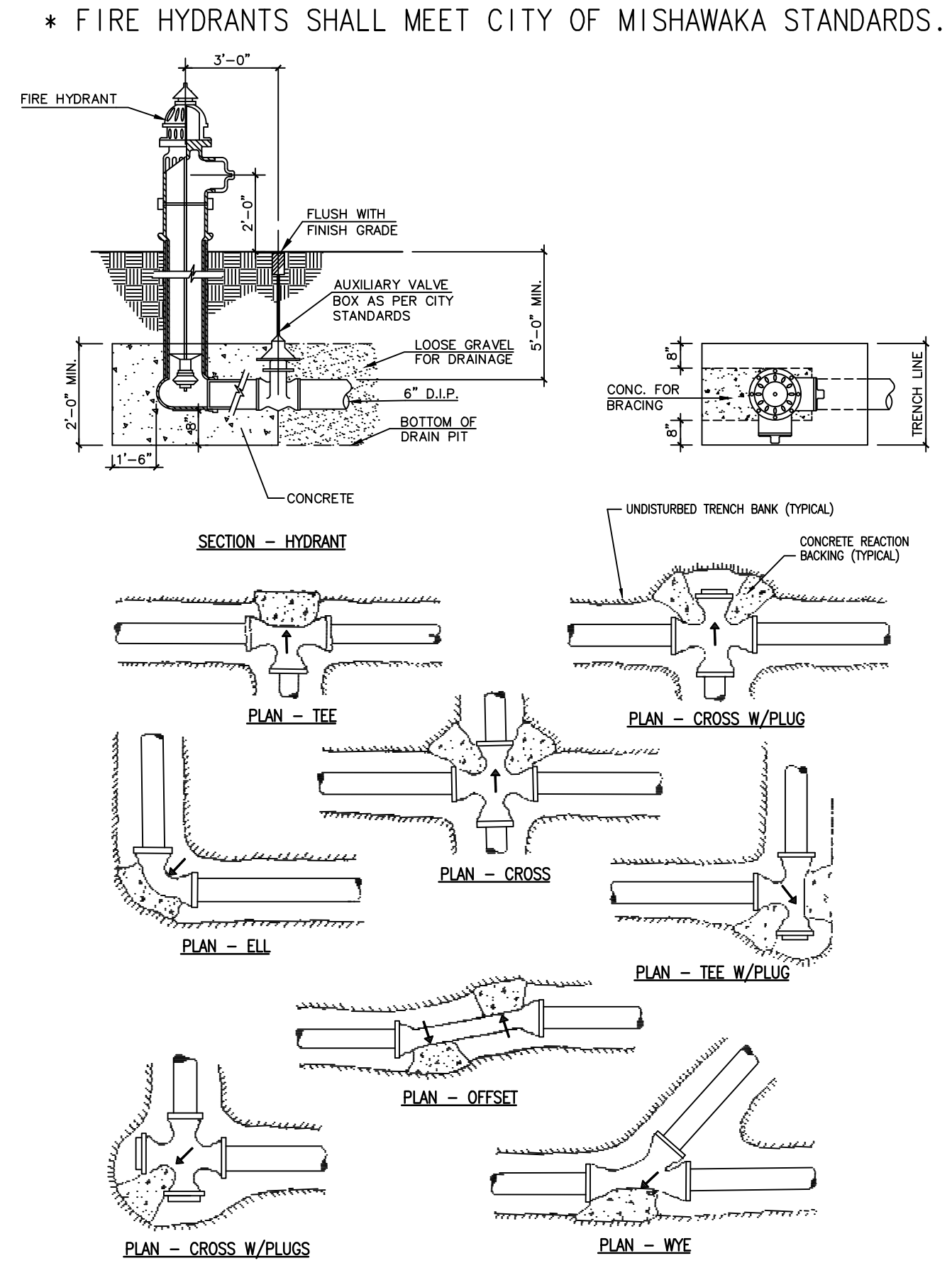


8 FRONT ELEVATION  
SCALE: NTS



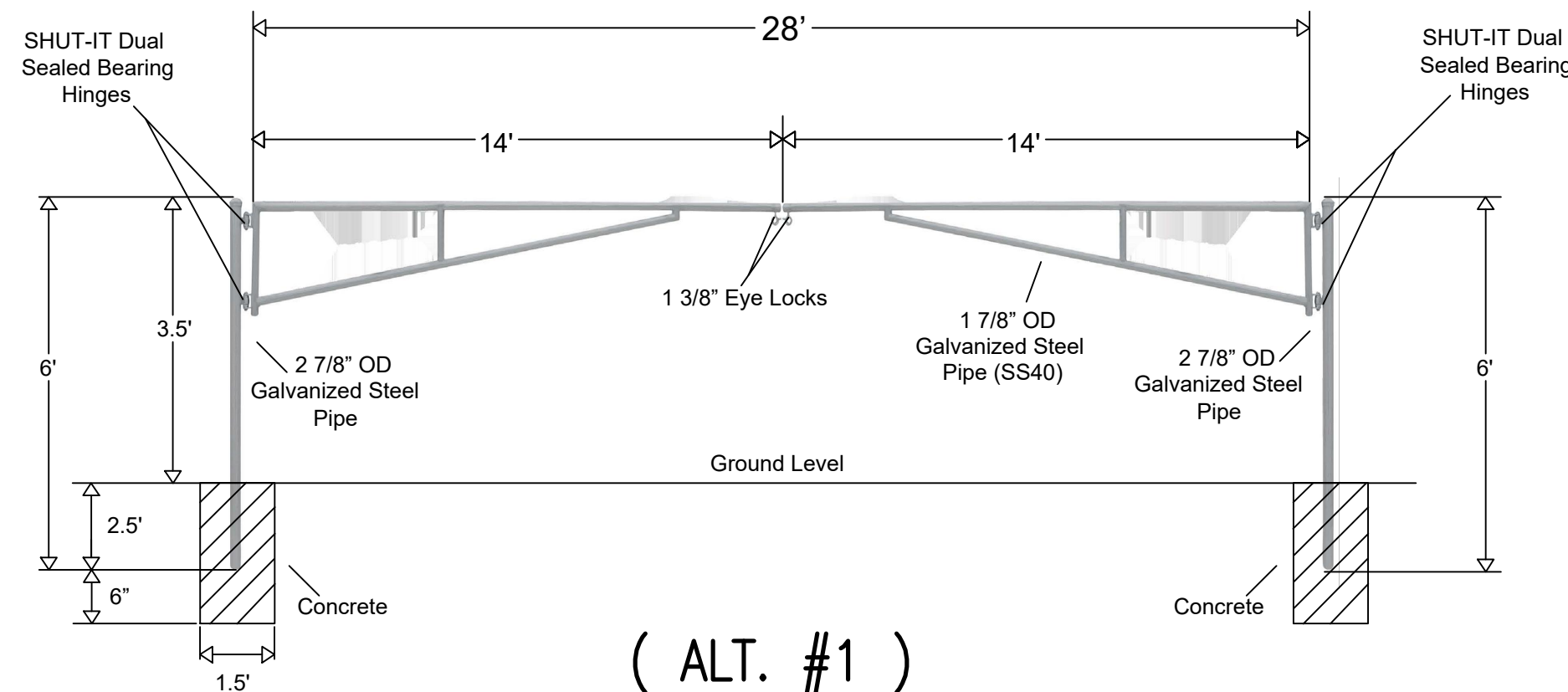
N HARRIS MADISON  
COOL CORPORATION  
BITTERSWEET ROAD  
HAWAKA, IN 46545  
(574) 259-7941  
TN: JOE WINTERS

DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH



## 9 STANDARD FIRE HYDRANT & BLOCKING

Contact Information:	Manufacturer:	Part Number:	Product Description:	Product Specifications:
Web: <a href="http://www.TigerTeethStore.com">www.TigerTeethStore.com</a> Phone: (800) 878-7829 Email: <a href="mailto:Sales@TigerTeethStore.com">Sales@TigerTeethStore.com</a>	Barrier Gate Brands™	14020-28	SENTINEL 28 ft. Manual Double Swing Barrier Gate	<ul style="list-style-type: none"> <li>• Width: 28 ft.</li> <li>• Material: Galvanized Steel</li> <li>• Installation Type: In-Ground</li> <li>• Barrier Gate Type: Manual Double Swing Gate</li> </ul>



10 28 FT. MANUAL DOUBLE SWING BARRIER GATE  
SCALE: NTS

## CONSTRUCTION DETAILS III

DATE 01/10/24	DRAWN BY: ASM	R E V I S I O N S		
SCALE NTS	CHECKED BY: MJD	DATE 1/26/24	BY ASM	ADDENDUM #1
FILE # 230228.5	PROJ. MANGR: MJD			

**Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners**

Office: (574)234-4003 / (800)594-4003 • Fax: (574)234-4119  
1643 Commerce Drive • South Bend, IN 46628

**ATA**

T

## 7.2

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PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW ENTIRE PLAN SET.  
IF ANY DISCREPANCIES ARE FOUND, CONTRACTOR SHALL CONTACT ENGINEER  
FOR CLARIFICATION AND/OR REVISIONS.

**UTILITY INFORMATION:**  
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THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE UTILITIES, PROTECTING ALL UTILITIES, PAYING ALL COSTS FOR DAMAGE TO UTILITY FACILITIES, AND RESTORING ALL UTILITIES TO A CONDITION WHICH IS BETTER THAN THE ORIGINAL CONDITION EXISTING PRIOR TO THE CONSTRUCTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK UNTIL ALL UTILITIES HAVE BEEN ACCURATELY LOCATED ON THE GROUND. WATER LINES DETERMINED FROM FIELD LOCATIONS AND SCALED FROM MAPS PROVIDED BY THE CITY.

PHMSC FIELDHOUSE – FINAL SITE PLAN (PHASE 1)  
PART OF THE SOUTHWEST, AND NORTHWEST QUARTERS OF SECTION 6, TOWNSHIP 37 NORTH, RANGE 4 EAST,  
PENN TOWNSHIP, ST. JOSEPH COUNTY, INDIANA.

MISHAWAKA REQUIREMENTS AND NOTES:

CITY REQUIREMENTS SHALL TAKE PRECEDENCE OVER ANY OTHER GENERAL REQUIREMENTS ON THIS SHEET.

DEFINITIONS AND GENERAL PROCEDURES

1. THE CITY OF MISHAWAKA ENGINEERING STANDARDS SHALL CONSIST OF THE CITY OF MISHAWAKA ENGINEERING STANDARDS (DRAWINGS), THE CURRENT ISSUE OF THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, THE CURRENT ISSUE OF THE INDIANA DEPARTMENT OF TRANSPORTATION'S STANDARD DRAWINGS, AND THE CURRENT ISSUE OF THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. IN THE EVENT OF ANY CONFLICT BETWEEN THE CITY OF MISHAWAKA ENGINEERING STANDARDS AND ANY OTHER DOCUMENTS, THE CITY OF MISHAWAKA ENGINEERING STANDARDS SHALL PREVAIL.
2. CITY. THE CITY OF MISHAWAKA.
3. I.N.D.O.T. THE INDIANA DEPARTMENT OF TRANSPORTATION.
4. I.M.U.T.C.D. THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
5. STANDARDS. THE CITY OF MISHAWAKA ENGINEERING STANDARDS.
6. "AS-BUILT DRAWINGS" WILL BE REQUIRED ON ALL IMPROVEMENTS WHICH ARE TO BE DEDICATED TO, AND ACCEPTED BY, THE CITY FOR INCLUSION IN THE PUBLIC INFRASTRUCTURE; OR WILL IN ANY WAY IMPACT ANY PART OF THE EXISTING PUBLIC INFRASTRUCTURE.
7. A MAINTENANCE BOND, IN THE AMOUNT OF 10 OF 3 YEARS, FROM THE DATE OF ACCEPTANCE OF SUCH IMPROVEMENTS, MUST BE PROVIDED BY THE CONTRACTOR FOR ANY IMPROVEMENTS THAT ARE TO BE ACCEPTED BY THE CITY.

PERMITS

1. PERMIT FEES ARE AS SET FORTH IN THE CURRENT CITY CODE OF ORDINANCES.
2. OBTAINING AND PROTECTING UTILITY LOCATIONS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
3. ONLY LICENSED AND BONDED CONTRACTORS (BONDED WITH THE CITY ENGINEER'S OFFICE) SHALL BE ALLOWED TO PERFORM ANY EXCAVATION, OR OTHER WORK, IN THE PUBLIC RIGHTS-OF-WAY OF THE CITY.
4. AN "EXCAVATION PERMIT" SHALL BE OBTAINED FROM THE OFFICE OF THE CITY ENGINEER'S OFFICE PRIOR TO ANY TYPE OF EXCAVATION IN ANY STREET OR RIGHT-OF-WAY. A DRAWING INDICATING ALL PERTINENT INFORMATION REGARDING THE EXCAVATION (LOCATION, PURPOSE, WIDTH, LENGTH, DEPTH, BARRICADES, TRAFFIC MAINTENANCE PLAN, DURATION OF WORK, ETC.) NEEDS TO BE SUBMITTED TO OBTAIN SUCH PERMIT.
5. NUMEROUS ARTERIAL STREETS IN THE CITY ARE DESIGNATED AS "HIGH VOLUME STREETS" AND REQUIRE A "HIGH VOLUME STREET CUT PERMIT". DETAILED DRAWINGS, AS IN ITEM #4, ABOVE, MUST BE SUBMITTED, WITH PARTICULARLY CLOSE ATTENTION TO TRAFFIC SAFETY AND MAINTENANCE, TO OBTAIN THIS PERMIT. THREE (3) WORKING DAYS ARE TO BE ALLOWED FOR THE PROCESSING OF THIS PERMIT.
6. ANY WORK ON A STATE HIGHWAY, OR WITHIN STATE RIGHTS-OF-WAY, REQUIRES A PERMIT FROM THE INDIANA DEPARTMENT OF TRANSPORTATION PERMITS DEPARTMENT OF THE LAPORTE DISTRICT OFFICE. PLEASE CALL (219) 362-6125 FOR MORE INFORMATION.
7. THE CONSTRUCTION OF ANY DRIVEWAY, CONNECTING WITH ANY CITY STREET, REQUIRES A DRIVEWAY PERMIT FROM THE CITY ENGINEER'S OFFICE. A DETAILED DRAWING INDICATING LOCATION OF THE DRIVEWAY (DISTANCE FROM ANY INTERSECTION AND EXISTING DRIVEWAYS, ADJACENT AND OPPOSITE TAPERS OR RADI) AND ANY OTHER INFORMATION NECESSARY TO PROPERLY SHOW THE PROPOSED WORK IS TO BE INCLUDED ON THE DRAWING AND BECOME PART OF THE PERMIT.

EXCAVATION

1. EMERGENCY EXCAVATION  
THE CITY ENGINEER'S OFFICE IS TO BE NOTIFIED AS SOON AS POSSIBLE IN THE EVENT OF ANY EMERGENCY EXCAVATION, FOLLOWED BY A PERMIT APPLICATION.
2. INITIAL EXCAVATION
  - A. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT OF ALL SAFETY LIGHTING, BARRICADES AND WARNING SIGNS.
  - B. INITIAL ACCESS HOLE SHALL BE CUT ONLY AS LARGE AS REQUIRED TO PERFORM WORK.

PAVED STREET PATCHING

1. TEMPORARY PATCH
  - A. IF CONDITIONS DO NOT ALLOW THE PLACEMENT OF A PERMANENT CONCRETE PATCH, A TEMPORARY ASPHALT PATCH SHALL BE ALLOWED. TEMPORARY PATCHES SHALL BE A MINIMUM DEPTH OF 4" FOR LOCAL AND COLLECTOR STREETS AND A MINIMUM DEPTH OF 8" FOR ARTERIAL STREETS.
  - B. WHEN A TEMPORARY PATCH IS TO BE IN PLACE FOR MORE THAN 12 HOURS THE PERMITTEE SHALL FURNISH THE CITY ENGINEER'S OFFICE WITH THE NAME AND PHONE NUMBER OF THE PARTY RESPONSIBLE FOR AFTER HOURS MAINTENANCE.
2. WEATHER LIMITATIONS
  - A. UNLESS SPECIAL PERMISSION IS OBTAINED, NO PERMANENT PATCHES SHALL BE PLACED BETWEEN OCTOBER 1ST AND MAY 1ST. DURING THESE PERIODS A DURABLE TEMPORARY PATCH SHALL BE PLACED IN THE ORIGINAL ACCESS HOLE.
  - B. THE MAINTENANCE OF THIS TEMPORARY PATCH SHALL BE THE SOLE RESPONSIBILITY OF THE PERMITTEE. THE PERMITTEE SHALL PROVIDE THE CITY ENGINEER'S OFFICE WITH THE NAME AND TELEPHONE NUMBER OF THE PARTY RESPONSIBLE FOR THE MAINTENANCE OF THE PATCH.

PERMANENT PATCH INSTALLATION – SEE DETAIL, SHEETS IV-2 AND IV-3, OF THESE STANDARDS.

PAVEMENT

1. MATERIALS
  - A. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH THE CURRENT INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS SPECIFICATIONS.
  - B. CLASS "A" CONCRETE (BECAUSE OF ITS FREQUENT USE, IS DEFINED HERE) SHALL HAVE 6 SACKS (94 LB.) OF CEMENT PER CUBIC YARD OF CONCRETE AND 6 GALLONS OF WATER, MAXIMUM, PER SACK OF CONCRETE. FLY ASH MAY BE USED IN CONCRETE MIX IN ACCORDANCE WITH SECTIONS 702.05 AND 901.02 OF THE INDIANA DEPARTMENT OF TRANSPORTATION 1993 STANDARD SPECIFICATIONS.
2. PAVEMENT JOINTS SHALL BE IN ACCORDANCE WITH THE CURRENT INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

SEWERS AND ASSOCIATED APPURTENANCES

1. A PERMANENT VIDEO RECORDING, OF ANY SANITARY SEWER CONSTRUCTED IN THE CITY IF REQUIRED, IS TO BE PROVIDED TO THE CITY ENGINEER'S OFFICE UPON COMPLETION OF THE WORK. THE VIDEO SHALL BE PROVIDED IN A FORMAT ACCEPTABLE TO THE CITY.
2. "AS-BUILT" DRAWINGS, SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER, OF ANY SEWER CONSTRUCTION, SANITARY OR STORM SHALL BE PROVIDED TO THE CITY ENGINEER'S OFFICE UPON COMPLETION OF AND PRIOR TO THE CITY'S ACCEPTANCE OF THE PROJECT. THE "AS-BUILT" DRAWINGS SHALL, AT THE VERY LEAST, INCLUDE U.S.G.S. INVERT AND CASTING ELEVATIONS, LINE SLOPE, LOCATIONS OF THE TAPS (FROM DOWNSTREAM MANHOLE) LENGTH OF TAP FROM MAIN AND TAP ELEVATION AT THE PROPERTY LINE & OFFSETS IF NECESSARY.
3. THE CITY ENGINEER'S OFFICE SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY TESTING, IN ORDER TO BE ABLE TO WITNESS THE TESTS. TEST FOR SANITARY SEWERS SHALL INCLUDE BUT NOT BE LIMITED TO INFILTRATION, EXFILTRATION AND DEFLECTION.
4. INFILTRATION/EXFILTRATION TESTS ARE TO BE SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER OR SURVEYOR.
5. MAXIMUM ALLOWABLE INFILTRATION RATE IS 100 GALLONS PER INCH DIAMETER PER MILE OF SEWER PER DAY. MANHOLES, IF TESTED SEPARATELY, SHALL HAVE A MAXIMUM ALLOWABLE INFILTRATION RATE OF 0.1 GALLONS PER HOUR PER FOOT OF DIAMETER PER FOOT OF HEAD.
6. ALL FLEXIBLE SEWER PIPING SHALL BE SUBJECT TO DEFLECTION TESTING. THE MAXIMUM ACCEPTABLE PIPE DEFLECTION AFTER INSTALLATION IS FIVE PERCENT (5) DIAMETER. THE PIPE WILL BE TESTED BY THE CONTRACTOR 30 DAYS OR GREATER AFTER THE INSTALLATION AND SHALL BE TESTED WITH A 9 POINT MANDREL FOR MAXIMUM DEFLECTION. A COPY OF THE TEST RESULTS, CERTIFIED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE OFFICE OF THE CITY ENGINEER.
7. ALL SANITARY PIPING SHALL BE SUBJECT TO A LOW PRESSURE AIR TESTING. VITRIFIED CLAY PIPE (VCP) AND DUCTILE IRON PIPE SHALL BE TESTED IN ACCORDANCE WITH ASTM C 828-86. PLASTIC PIPING SHALL BE TESTED IN ACCORDANCE WITH THE UNI-BELL PLASTIC PIPE ASSOCIATION – UNI-B-6-79. COPIES OF THIS PROCEDURE MAY BE OBTAINED FROM UNI-BELL, 2855 VILLA CREEK DRIVE, SUITE 150, DALLAS, TEXAS 75234. A COPY OF THE TEST RESULTS, CERTIFIED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED TO THE OFFICE OF THE CITY ENGINEER.

TRAFFIC

1. THE DEVELOPER IS RESPONSIBLE FOR PAYMENT TO THE CITY OF MISHAWAKA PRIOR TO THE INSTALLATION OF ALL TRAFFIC CONTROL SIGNING AND STREET NAME SIGNS ON ALL STREETS TO BE DEDICATED TO THE CITY. ALL TRAFFIC CONTROL DEVICES ARE TO BE IN CONFORMANCE WITH THE I.M.U.T.C.D.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROPER TRAFFIC CONTROL AND WARNING SIGNING AND DEVICES AS REQUIRED BY THE I.M.U.T.C.D. FOR THE DURATION OF CONSTRUCTION ON ANY PUBLIC STREET. FAILURE TO DO SO WILL RESULT IN THE CITY PROVIDING THE NECESSARY

UTILITY NOTES:

MATERIAL REQUIREMENTS:  
SANITARY SEWER, STORM SEWER, AND WATER LINES

UTILITY NOTE:

1. ALL WATER PIPE 2" AND SMALLER SHALL BE TYPE "K" COPPER.
2. ALL WATER PIPE 2 1/2" AND LARGER SHALL BE CLASS 52 DUCTILE IRON.
3. ALL STORM SEWERS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH CITY STANDARDS PRIOR TO ACCEPTANCE BY THE OWNER. THE ENGINEER SHALL WITNESS THE TESTS. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE OWNER, THE CITY AND THE ENGINEER.
4. ALL STORM SEWER SHALL BE CLASS 111 RCP OR HOPE DOUBLE WALL.
5. ALL SANITARY SEWER SHALL BE ESWCP (ASTM C700), OR SDR 35 PVC (ASTM D3034). ESWCP JOINTS SHALL CONFORM TO ASTM C425. PVC PIPE JOINTS SHALL CONFORM TO ASTM C3212 AND ASTM F477.
6. ALL MANHOLES SHALL BE REINFORCED CONCRETE PRECAST (ASTM C478).

BACKFLOW / CROSS CONNECTION REQUIREMENTS:

1. USE RPZ ON DOMESTIC LINES, INSIDE BUILDING. THE RPZ SHALL BE MOUNTED IN A HORIZONTAL ORIENTATION.
2. USE DDCV ON FIRE LINES. THE DDCV SHALL BE LISTED ON THE USC APPROVED LIST. MOUNT IN APPROVED ORIENTATION.
3. USE PVB ON LAWN SPRINKLER LINES.

SANITARY SEWER, STORM SEWER, AND WATER LINES GENERAL NOTES:

1. ALL LOCAL PERMITS SHALL BE OBTAINED BEFORE CONSTRUCTION IS BEGIN ON THIS PROJECT.
2. IF POLLUTION OR NUISANCE CONDITIONS ARE CREATED, IMMEDIATE CORRECTIVE ACTION SHALL BE TAKEN BY THE PERMITTEE.
3. SEWER TO WATER MAIN SEPARATION DISTANCES SHALL COMPLY WITH SECTION 38 OF THE RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES, 1997 EDITION. SEE ITEM 9 BELOW.
4. ALL TRENCHES SHALL BE DEWATERED USING DEEP WELLS OR WELL POINTS PRIOR TO EXCAVATION. IF NEEDED, THE CONTRACTOR SHALL PROVIDE SHEETING, SHORING, BRACING AND/OR A TRENCH BOX, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS, FOR ALL EXCAVATION WORK.
5. MINIMUM COVER FOR WATER LINES IS 5.0 FT.
6. P.V.C. SANITARY SEWERS SHALL BE TESTED FOR DEFLECTION USING A MANDRELL WHICH IS 95% OF THE INSIDE DIAMETER OF THE PIPE, AS DEFINED IN THE APPLICABLE A.S.T.M. STANDARDS. ANY PIPE FAILING THE TEST SHALL BE RE-EXCAVATED AND REPLACED, SO THAT ALL COMPLETED PIPE PASSES A RETEST. THE DEFLECTION TEST SHALL BE PERFORMED NOT LESS THAN 30 DAYS AFTER BACKFILL OF THE TRENCHES. ALL OTHER DETAILS OF THE MANDRELL TEST SHALL BE IN ACCORDANCE WITH "TEN STATES" STANDARDS.
7. ALL SANITARY SEWERS SHALL BE TESTED FOR INFILTRATION OR EXFILTRATION HYDROSTATICALLY, WITH A MINIMUM TESTING HEAD OF 2 FEET, TAKING INTO CONSIDERATION THE STATIC GROUNDWATER ELEVATION WITH RESPECT TO THE PIPE AT THE TIME OF THE TEST. THE MAXIMUM ALLOWABLE LEAKAGE SHALL BE 100 GALLONS PER DAY PER INCH DIAMETER PER MILE OF PIPE.
8. ALL SANITARY SEWERS LAID PARALLEL TO WATER MAINS SHALL BE SEPARATED AT LEAST 10 FEET, MEASURED EDGE TO EDGE, FROM SAID WATER MAINS. WHENEVER A SANITARY SEWER CROSSES A WATER MAIN, THE MINIMUM VERTICAL SEPARATION SHALL BE 18", ALL IN ACCORDANCE WITH IDEM REGULATIONS AND "TEN STATES STANDARDS".
9. THE RESULTS OF THE INFILTRATION/EXFILTRATION TEST ON THE COMPLETED SEWER SHALL BE SUBMITTED TO DANCH, HARNER & ASSOCIATES, INC. WITHIN THREE MONTHS OF COMPLETION OF CONSTRUCTION.
10. ALL NEW WATER LINES, INCLUDING NEW FIRE HYDRANT, SHALL BE DISINFECTED IN ACCORDANCE WITH CITY, STATE AND FEDERAL REGULATIONS. THE NEW LINES SHALL BE FLUSHED PRIOR TO DISINFECTION. COPIES OF ACCEPTABLE BACTERIAL TEST RESULTS SHALL BE FURNISHED TO THE OWNER, THE ENGINEER AND THE CITY PRIOR TO ACTIVATING THE NEW WATER PIPING.
11. ALL WATER LINES SHALL BE PRESSURE TESTED @ 150 PSI FOR 2 HOURS.
12. ALL SANITARY SEWER MANHOLES SHALL BE INSPECTED AFTER COMPLETION FOR GENERAL CONDITION, CRACKS, LEAKAGE OF GROUNDWATER OR OTHER DEFECTS. IF PORTIONS OF THE MANHOLES ARE ANTICIPATED TO BE EXPOSED TO STATIC GROUNDWATER AFTER COMPLETION, THE MANHOLE SHALL BE TESTED FOR WATER TIGHTNESS IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF TEN STATES STANDARDS, LATEST EDITION, AND IDEM REGULATIONS.
13. NO ROOF DRAINS, FOOTING DRAINS AND/OR SURFACE WATER DRAINS MAY BE CONNECTED TO THE SANITARY SEWER SYSTEM INCLUDING TEMPORARY CONNECTIONS DURING CONSTRUCTION.
14. SANITARY FEATURES SHALL COMPLY WITH ANY ADDITIONAL REQUIREMENTS OF THE ST. JOSEPH COUNTY HEALTH DEPARTMENT, AND/OR THE CITY OF MISHAWAKA.

PHONE, GAS, ELECTRIC, CATV UTILITY AND IRRIGATION SLEEVE NOTES:

1. CONTRACTOR IS TO UNCOVER AND CONFIRM ALL TAP LOCATIONS. IF DISCREPANCIES EXIST, NOTIFY ENGINEER PRIOR TO COMMENCING WORK.
2. CONTRACTOR IS TO COORDINATE ALL UTILITY CONNECTIONS WITH THE APPROPRIATE UTILITY COMPANIES.
3. ROUTINGS SHOWN ARE APPROXIMATE.
4. CONTRACTOR IS TO COORDINATE AND ASSURE THAT ANY REQUIRED IRRIGATION SLEEVES ARE PLACED PRIOR TO PAVING.
5. TELEPHONE, ELECTRIC AND TV ROUTINGS ARE TO BE COORDINATED WITH THE APPROPRIATE UTILITIES. CONTRACTOR IS TO PROVIDE CONDUIT UNDER PAVED AREAS AS REQUIRED BY THE APPROPRIATE UTILITY.
6. GRANULAR BACKFILL MATERIAL IS REQUIRED IN ALL UTILITY TRENCHES LOCATED UNDER PAVEMENT OR SIDEWALKS. BACKFILL SHALL BE COMPACTED TO 100% OF STANDARD PROCTOR DENSITY PER SOILS REPORT.

UTILITY INFORMATION:

THE ENGINEER HAS INDICATED UNDERGROUND UTILITIES ON THESE PLANS BASED UPON INFORMATION PROVIDED BY THE VARIOUS UTILITIES. THE ACCURACY AND COMPLETENESS OF THIS INFORMATION IS UNKNOWN AND THE ENGINEER ACCEPTS NO LIABILITY FOR UTILITY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK WITH THE UTILITIES, PROTECTING ALL UTILITIES, PAYING ALL COSTS FOR DAMAGE TO UTILITY FACILITIES, AND RESTORING ALL UTILITIES TO A CONDITION WHICH IS BETTER THAN THE ORIGINAL CONDITION AT THE START OF THIS PROJECT. THE CONTRACTOR SHALL NOT BEGIN UNDERGROUND WORK UNTIL ALL UTILITIES HAVE BEEN ACCURATELY LOCATED ON THE GROUND.

EROSION CONTROL NOTES:

EROSION CONTROL:

EROSION NOTE: GENERAL CONTRACTOR IS RESPONSIBLE FOR ASSURING COMPLIANCE WITH ALL LOCAL AND STATE REQUIREMENTS FOR EROSION CONTROL. PRIMARY RESPONSIBILITY FOR MAINTENANCE OF THE EROSION CONTROL PROTECTION WILL REMAIN WITH THE GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL ALSO BE REQUIRED TO CLEAN OUT ALL DRAINAGE STRUCTURES IMMEDIATELY PRIOR TO PROJECT TURNOVER.

1. LAND DISTURBANCE WHICH REMOVES VEGETATION SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
2. THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS QUICKLY AS PRACTICAL.
3. TEMPORARY VEGETATION OR MULCHING SHALL BE USED WHERE REQUIRED TO PROTECT EXPOSED AREAS DURING SITE DEVELOPMENT IF A DISTURBED AREA IS TO REMAIN INACTIVE FOR A PERIOD EXCEEDING 14 DAYS, TEMPORARY RYE GRASS SEEDING WILL BE PLACED TO PROVIDE VEGETATION.
4. PERMANENT AND FINAL VEGETATION SHALL BE INSTALLED AS SOON AS PRACTICAL.
5. STRAW BALE CHECK DAMS AND SILT FENCING SHALL BE PLACED AROUND ANY SOIL STOCKPILE THAT BECOMES INACTIVE FOR A PERIOD OF TIME EXCEEDING 15 DAYS.

PETITIONER:

PENN HARRIS MADISON  
SCHOOL CORPORATION  
55900 BITTERSWEET ROAD  
MISHAWAKA, IN 46545  
(574) 259-7941  
ATTN: JOE WINTERS

SURVEYORS & ENGINEERS:

DANCH, HARNER & ASSOCIATES, INC.  
1643 COMMERCE DRIVE  
SOUTH BEND, IN. 46628  
(574) 234-4003  
ATTN: MICHAEL DANCH

GRADING, DRAINAGE & PAVING NOTES:

PAVING, STRIPING & CURB NOTES

1. WORKMANSHIP AND MATERIALS FOR ALL PAVING TO CONFORM TO STATE AND LOCAL STANDARD DRAWINGS AND SPECIFICATIONS, LATEST EDITION.
2. PARKING LOT SUBGRADE SHALL BE FINE GRADED TO ASSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING AND TOWARDS THE COLLECTION LOCATIONS.
3. ALL ASPHALT PAVING SHALL BE LAID ON A STRAIGHT, EVEN, AND UNIFORM GRADE WITH A MINIMUM 1% AND MAXIMUM 3% SLOPE TOWARDS THE COLLECTION POINTS. DO NOT ALLOW NEGATIVE GRADES OR PONDING OF WATER.
4. SLOPE BUILDING SIDEWALKS AWAY FROM BUILDING AT 1%.
5. PAVED AREAS ARE TO BE ROUGH GRADED TO +/- 0.10 FT. AND PROOF ROLLED. ANY NON-ACCEPTABLE AREAS MUST BE CORRECTED PRIOR TO THE PLACEMENT OF STONE.
6. EXPANSION JOINTS – 1/2" ASPHALT IMPREGNATED FULL DEPTH, 40 FT. O.C. MAXIMUM AND AT SIDEWALK INTERSECTIONS. CRACK CONTROL SCORING AT SIDEWALK WIDTH DIMENSION, OR AS NOTED ON THE PLANS.
7. STRIPING OF PARKING STALLS AND OTHER AREAS TO BE AS SHOWN ON THE PLANS. ALL LINES TO BE SINGLE STRIPE, YELLOW, 4" WIDE, STRAIGHT, EVENLY SPACED, AND UNIFORM IN LENGTH.
8. HANDICAP PARKING AND RAMP SHALL COMPLY WITH ALL GOVERNMENTAL CODES AND STANDARDS. HAND/CAPE SPACES TO BE MARKED WITH THE INTERNATIONAL HAND/CAPE SYMBOL IN A BLUE FIELD. EACH SPACE SHALL BE ADDITIONALLY MARKED WITH APPROPRIATE SIGNAGE.
9. REFER TO THE PROJECT DETAIL SHEET FOR PAVING DIMENSIONS, COURSES AND THICKNESSES.

OFFSITE CONSTRUCTION NOTES

1. ALL WORK TO COMPLY WITH LOCAL AND STATE CODES & STANDARDS OF CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL COORDINATE THE WATER AND SEWER WORK IN THE RIGHT OF WAY WITH ALL APPROPRIATE AGENCIES.
4. RIGHT OF WAY DRAINAGE PATTERNS SHALL ALSO BE MAINTAINED.
5. ANY AREAS DISTURBED ARE TO BE REPAIRED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO DISTURBANCE.
6. CONTRACTOR TO INSTALL IMPROVEMENTS SHOWN AND TO COORDINATE WITH THE APPROPRIATE GOVERNMENTAL AGENCY FOR CLARIFICATION AND ANY NECESSARY INSPECTIONS.

SITE GRADING

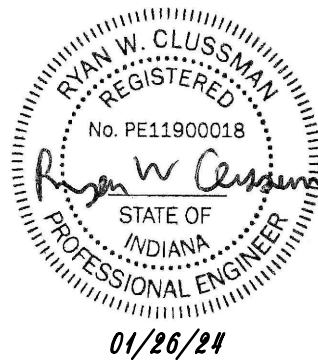
1. STRIP BUILDING AND PAVING AREAS OF ALL ORGANIC TOPSOIL MATERIALS. STOCKPILE SUITABLE TOPSOILS FOR RESPREADING ONTO LANDSCAPE AREAS. ALL EXCESS EXCAVATED MATERIALS SHALL BE REMOVED FROM THE SITE AT THE CONTRACTORS EXPENSE.
2. ALL SOILS SHALL BE GRADED TO PROVIDE SMOOTH CONTOURS AND POSITIVE DRAINAGE AWAY FROM BUILDINGS. DO NOT ALLOW FOR PONDING OF WATER.
3. AFTER TOPSOIL REMOVAL, CONTRACTOR IS TO PROOF ROLL THE BUILDING AND PAVING AREAS. ANY NON-ACCEPTABLE AREAS MUST BE CORRECTED PRIOR TO BEGINNING ANY FILL OPERATIONS.
4. AFTER COMPLETION OF PROOF ROLLING, FILL CAN BE PLACED USING SUITABLE ON-SITE OR BORROW MATERIALS IN MAXIMUM 6" LIFTS. FILL TO BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
5. PAVED AREAS ARE TO BE ROUGH GRADED TO +/- 0.10 FT. AND PROOF ROLLED. ANY NON-ACCEPTABLE AREAS MUST BE CORRECTED PRIOR TO THE PLACEMENT OF STONE.
6. PARKING LOT SHALL BE GRADED TO ASSURE POSITIVE DRAINAGE AND NO PONDING OF WATER OR WHERE SHOWN ON THE PLAN AND INTEGRAL WITH SIDEWALK AT PAVING EDGE, AS APPROPRIATE.
7. REFERENCES TO WHERE SHOWN ON THE PLAN AND INTEGRAL WITH SIDEWALK AT PAVING EDGE, AS APPROPRIATE.

DRAINAGE

1. ALL WORK TO COMPLY WITH APPLICABLE CITY OF MISHAWAKA CONSTRUCTION STANDARDS.
2. PARKING AREAS SHALL BE GRADED TO ASSURE POSITIVE FLOW AWAY FROM THE BUILDING. NO PONDING OF WATER IS TO BE ALLOWED.
3. CONTRACTOR IS TO CONFIRM ALL UTILITY LOCATIONS. IF DISCREPANCIES EXIST, NOTIFY ENGINEER PRIOR TO COMMENCING WORK.
4. GRANULAR BACKFILL MATERIAL IS REQUIRED IN ALL PIPE TRENCHES LOCATED UNDER PAVEMENT OR SIDEWALKS. BACKFILL SHALL BE COMPACTED TO 100% STANDARD PROCTOR DENSITY.
5. REFER TO STANDARD DETAILS FOR SPECIFICATIONS FOR PRECAST DRYWELLS, PIPE TRENCHING AND BACKFILL, FRENCH DRAIN TRENCH DETAILS AND MATERIALS, INLETS, AND CASTING INFORMATION.

GENERAL NOTES

1. ALL WORK TO COMPLY WITH LOCAL AND STATE CODES & STANDARDS OF CONSTRUCTION.
2. ALL TESTING REQUIRED BY GOVERNMENTAL AUTHORITIES IS TO BE PERFORMED BY THE OWNER'S TESTING AGENCY.
3. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES. QUANTITIES GIVEN ARE APPROXIMATE AND MUST BE VERIFIED. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER.
4. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH TWO COPIES OF "RED LINED" AS-BUILT PLANS OF THE DESIGNATED IMPROVEMENTS.
6. CONTRACTOR IS TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF THE WORK AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION. PLANS INDICATE APPROXIMATE ELEVATIONS AND ROUTING. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DIMENSIONAL OR ELEVATION DISCREPANCIES WHICH HAVE NOT BEEN BROUGHT TO HIS ATTENTION PRIOR TO CONSTRUCTION.
7. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES ON THE SITE AND RIGHT OF WAY PRIOR TO STARTING WORK AND SHALL CONDUCT HIS OPERATIONS IN SUCH A MANNER AS TO ENSURE THAT THOSE UTILITIES WILL NOT BE DAMAGED OR DISTURBED. CONTRACTOR SHALL ALSO CONTACT ALL APPROPRIATE UTILITY COMPANIES, INCLUDING MUNICIPAL UTILITIES, TO COORDINATE ALL UTILITY INSTALLATIONS.
8. CONTRACTOR IS TO COMPLY WITH RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT, UNLESS SPECIFICALLY OVERIDDEN.
9. DETAILS AND SPECIFICATIONS SHOWN ON THIS PLAN ARE INTENDED TO COMPLEMENT THE PROJECT PLANS AND STANDARD DETAILS. IN CASES OF CONFLICTS BETWEEN THESE PLANS AND OTHER SPECIFICATIONS, THE MORE RESTRICTIVE CASE SHALL BE USED.
10. THESE TECHNICAL SPECIFICATIONS ARE INTENDED TO COMPLEMENT AND COORDINATE WITH THE REQUIREMENTS CONTAINED IN THE PROJECT MANUAL. IN THE CASE OF CONFLICTING REQUIREMENTS, THE MOST RESTRICTIVE SPECIFICATION SHALL BE ENFORCED. REFER ALSO TO THE CITY OF MISHAWAKA SPECIFICATIONS AND RELATED DOCUMENTS WHICH ARE CONTAINED HEREIN BY REFERENCE.



CONSTRUCTION SPECIFICATIONS

REVISIONS

DATE	DRAWN BY:
01/10/24	ASM
SCALE	CHECKED BY:
NTS	MJD
FILE #	PROJ. MNGR:
230228.5	MJD

DATE	BY	ADDENDUM #1
1/26/24	ASM	

Danch, Harnar & Associates, Inc.  
Land Surveyors • Professional Engineers  
Landscape Architects • Land Planners

Office: (574)234-4003 / (800)944-4003 • Fax: (574)234-4119  
1643 Commerce Drive • South Bend, IN 46628

DHA

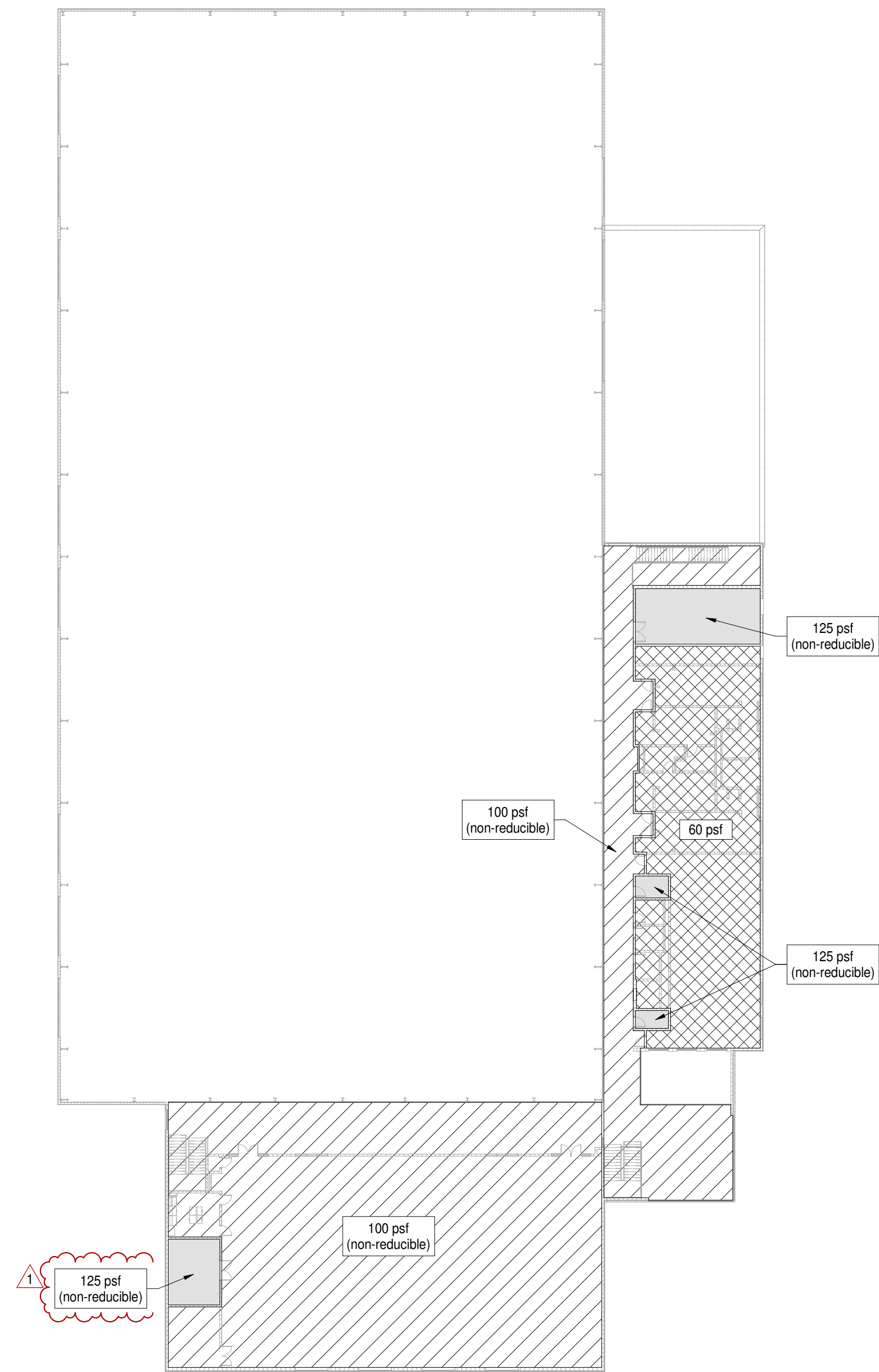
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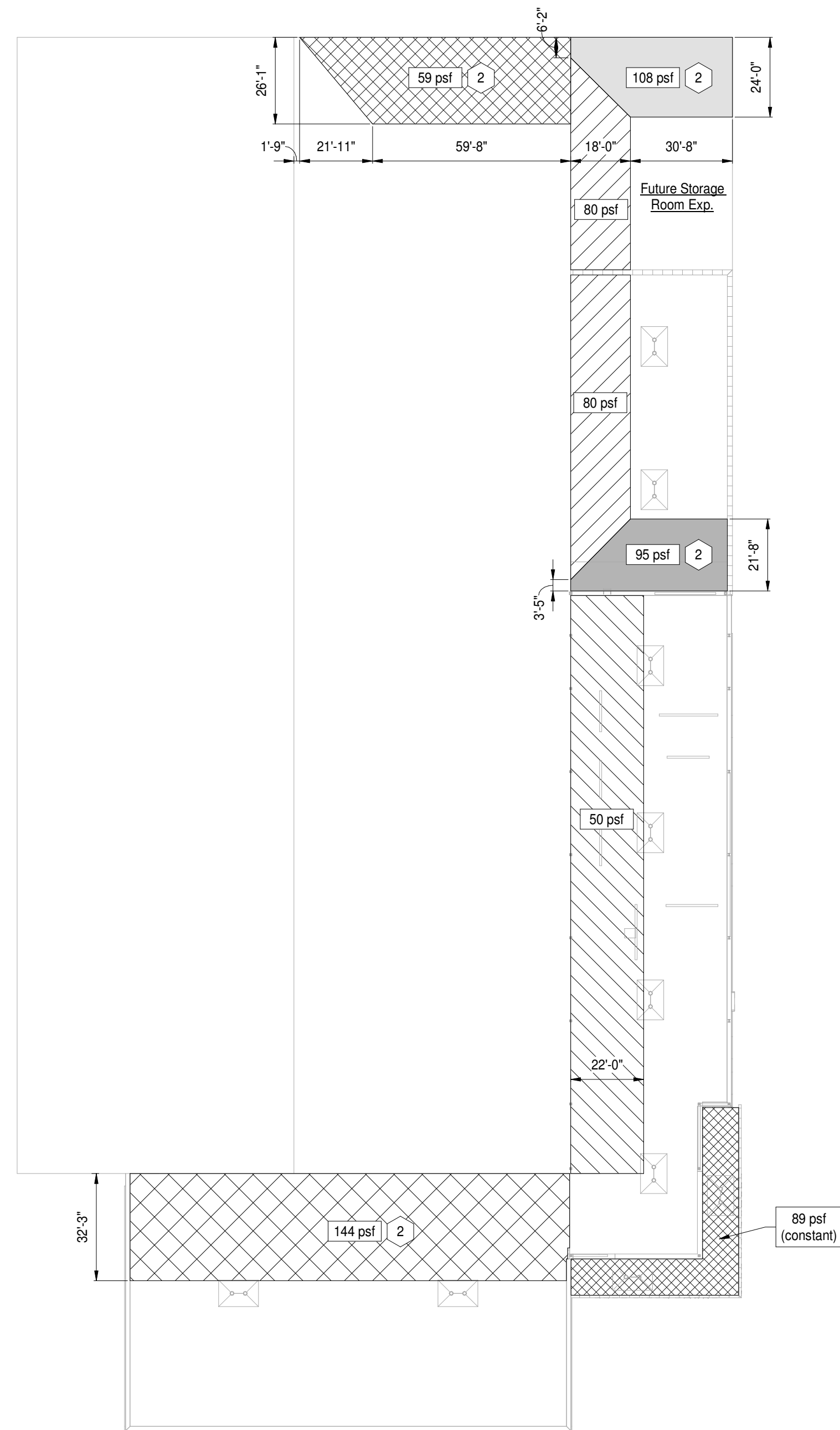
ANY INFORMATION ON THIS DRAWING IS NOT INTENDED TO BE SUITABLE FOR REUSE BY ANY PERSON, FIRM OR CORPORATION OR ANY OTHERS ON EXTENSION OF THIS PROJECT OR FOR ANY USE ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION AND ADOPTION BY THE ENGINEER, ARCHITECT OR SURVEYOR FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT THE USERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ENGINEER, ARCHITECT OR SURVEYOR.

ALL UNDERGROUND UTILITIES MUST BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ANY CONSTRUCTION MAY BEGIN.

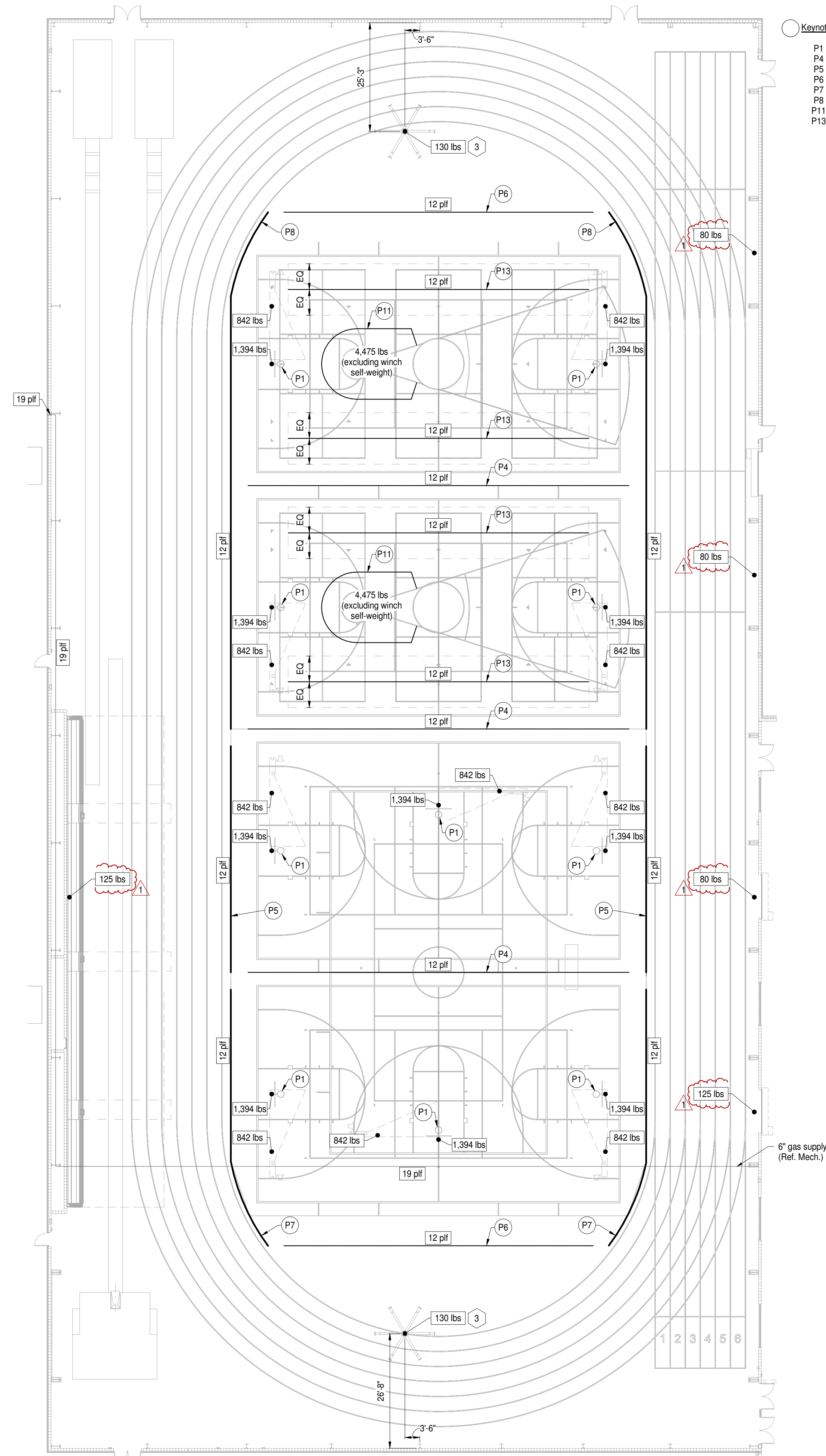
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1 Second Floor Live Load Diagram  
Scale: 1/32" = 1'-0"



2 Roof Snow Drift Diagram  
Scale: 1/32" = 1'-0"



3 Pre-Engineered Metal Building  
Scale: 1/16" = 1'-0"

Keynote Legend:

- P1 Basketball Hoop
- P4 88'-0" long divider curtain
- P5 50'-0" long divider curtain
- P6 72'-0" long divider curtain
- P7 62'-0" long divider curtain
- P8 120'-0" long divider curtain
- P11 Throwing Cage
- P13 Batting Cage

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

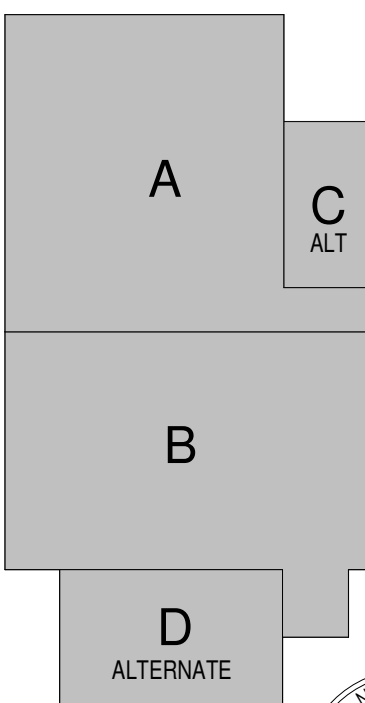
## FANNING HOWEY

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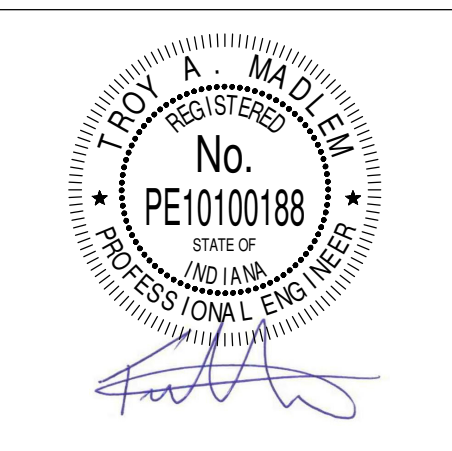
350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

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KEY PLAN

Construction Documents



PROJECT MANAGER: JAA

DRAWN BY: TCM

PROJECT NUMBER: 222130.00

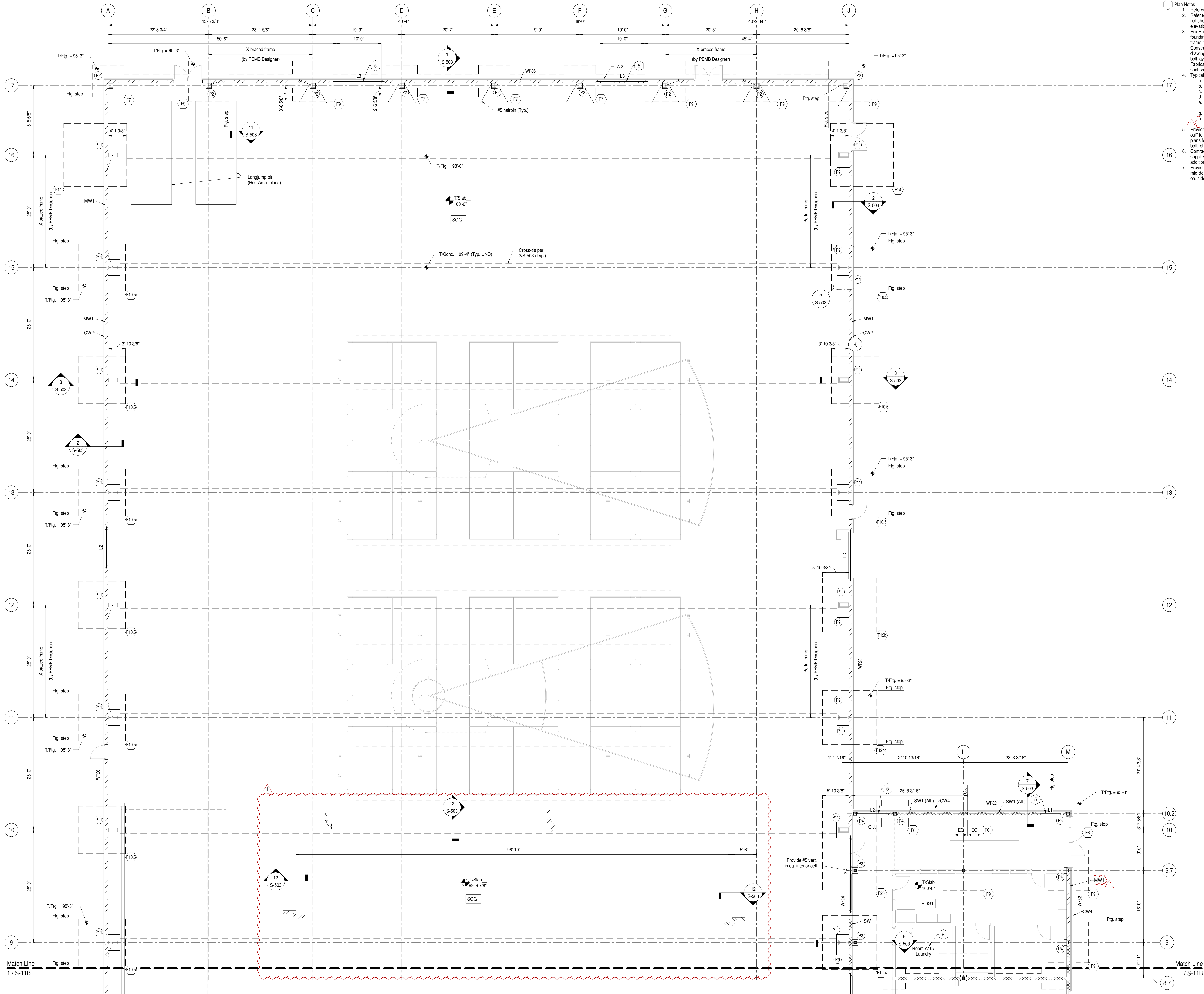
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

Loading Diagrams

# S-005

\\Magnus\Projects\Fanning-Howe\Penn School Corporation\Penn High School Field House\2023\_PHS Field House\_Struct\_RVT22\_Central.rvt  
1/26/2024 12:56:28 PM



- Plan Notes:**
- Reference elevation = 100'-0" (746.00' NAVD88).
  - Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction.
  - Pre-Engineered Metal Building (PEMB) foundations depicted are based on preliminary frame reactions and require verification prior to construction. Contractor shall submit PEMB shop drawings depicting column reactions and anchor bolt layout to SEOR for verification of sizing. Fabrication shall not proceed prior to completion of such verification by SEOR.
  - Typical Elevations (UNO):
    - T/Flg. @ ext. walls = 98'-0".
    - T/Flg. @ int. shearwalls = 99'-4".
    - T/Flg. @ ext. columns = 98'-0".
    - T/Flg. @ int. columns = 99'-4".
    - T/Pedestal (WF & HSS) = 99'-4".
    - T/Pedestal (PEMB) = 100'-0".
    - T/Slab = 100'-0".
    - T/Conc. wall (Typ.) = 99'-4".
    - T/Conc. wall (PEMB) = 100'-0".
  - Provide opening as indicated w/ masonry "knock-out" to be removed for future opening. Ref. Arch. plans for opening height. Provide #4 dowels to both of jamb & top of foundation @ 4'-0" max. spa. Contractor to coord. housekeeping past w/ Owner-supplied laundry equipment. Ref. Arch. for additional requirements.
  - Provide #5 hairpins as noted on plan. Project into mid-depth of slab @ 1:1 slope. Minimum leg length ea. side shall be 4'-0".

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## PENN HIGH SCHOOL FIELDHOUSE

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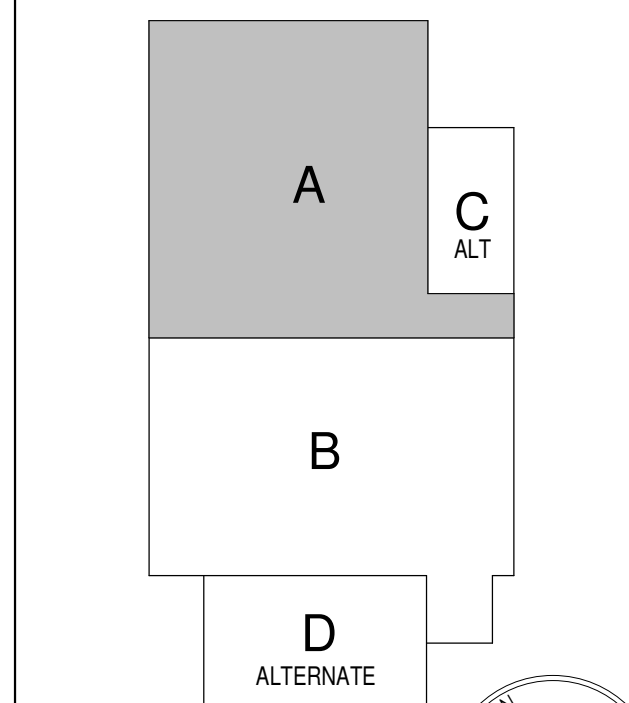
## FANNING HOWE

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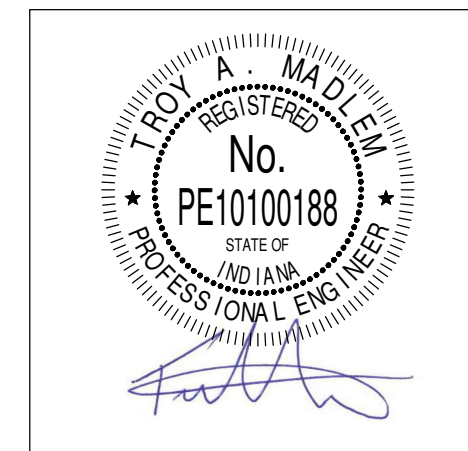
350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

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### KEY PLAN

Construction Documents



PROJECT MANAGER: JAA

DRAWN BY: TCM

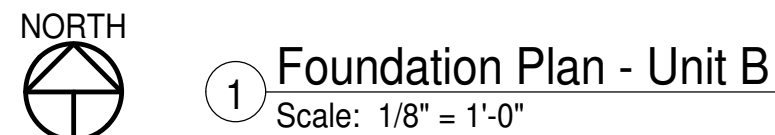
PROJECT NUMBER: 22130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

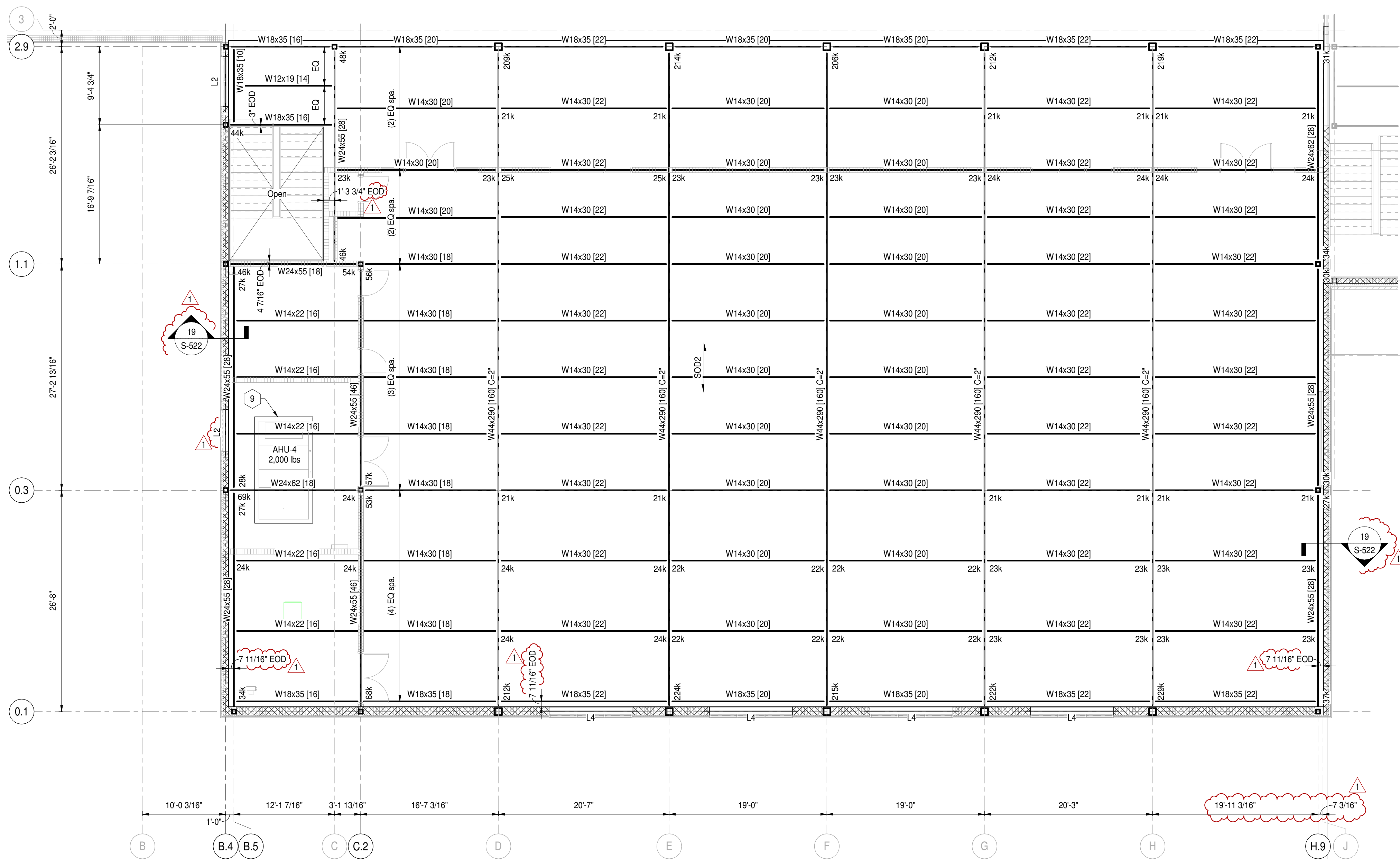
Foundation Plan - Unit A

# S-11A

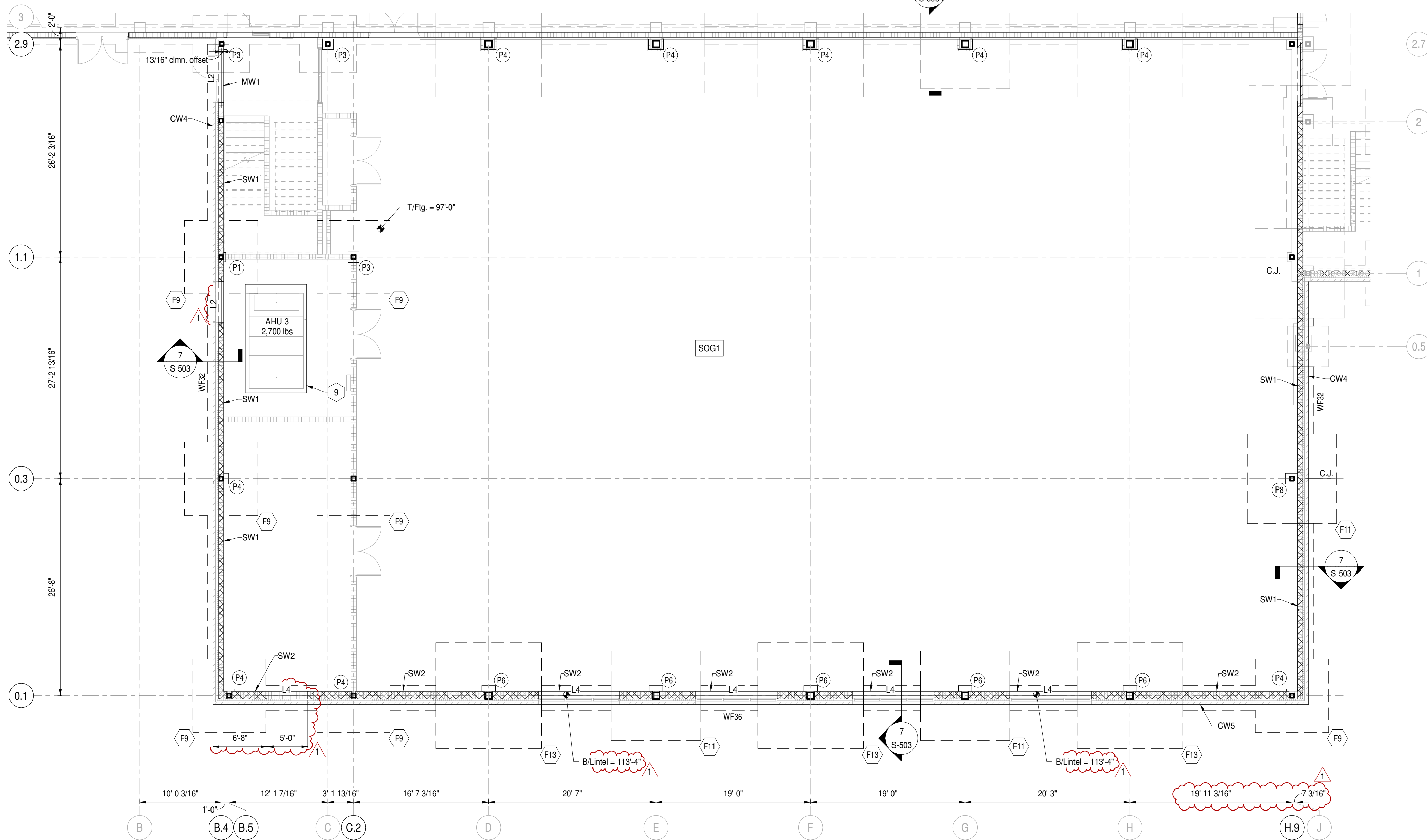


# S-11B

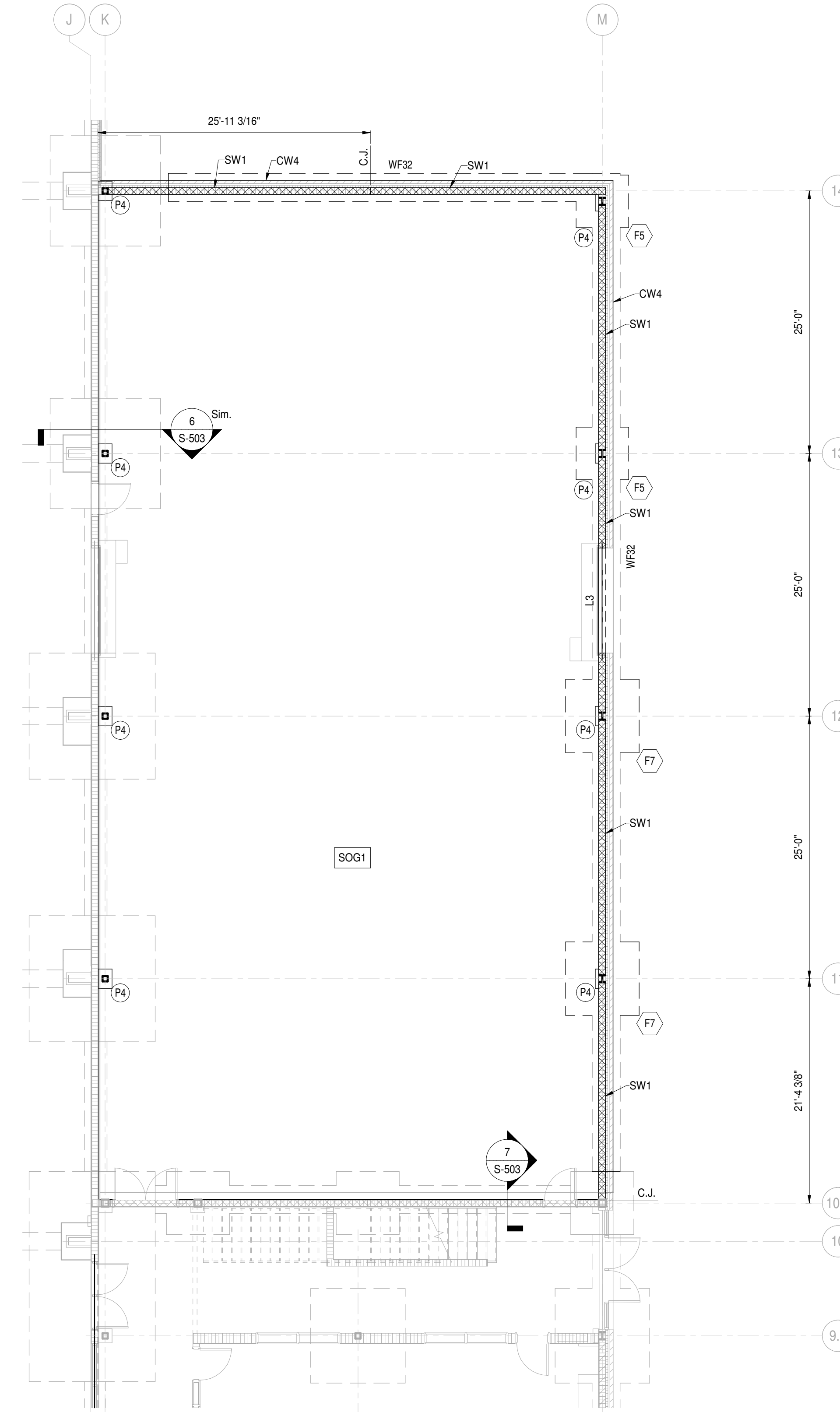
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**3 Second Floor Framing Plan Alternates - Unit D**  
Scale: 1/8" = 1'-0"



**2 Foundation Plan Alternates - Unit D**  
Scale: 1/8" = 1'-0"



**1 Foundation Plan Alternates - Unit C**  
Scale: 1/8" = 1'-0"

- Plan Notes:**
1. Reference elevation = 100'-0" (746.00' NAVD88).
  2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
  3. All walls shall be laid out from the arch. drawings.
  4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
  5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
  6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
  7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ SJI requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
  8. T/Steel Elev. = 114'-8 1/2" UNO.
  9. Contractor to coord. housekeeping pad w/ Owner-supplied laundry equipment. Ref. Arch. for additional requirements.

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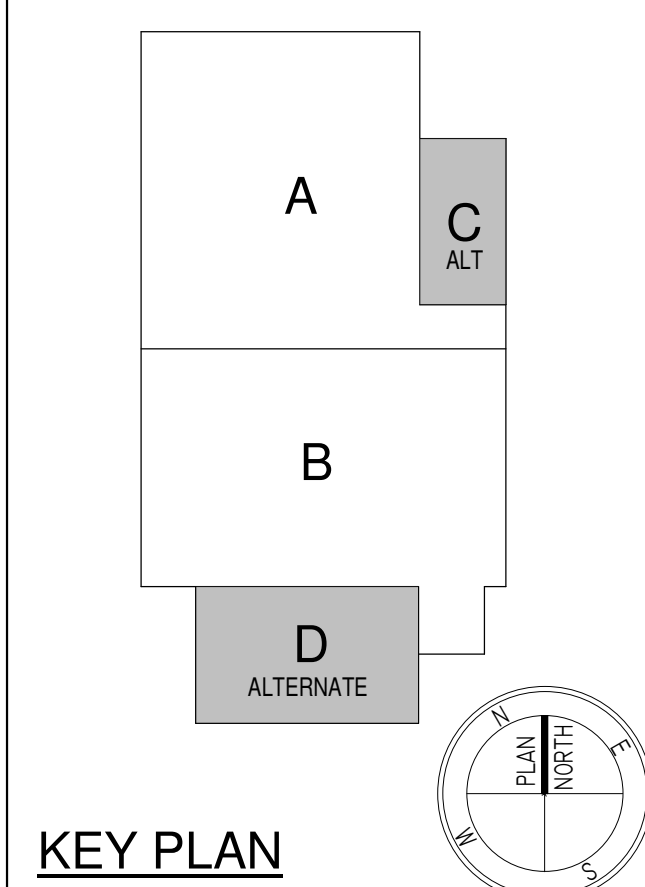


ARCHITECT

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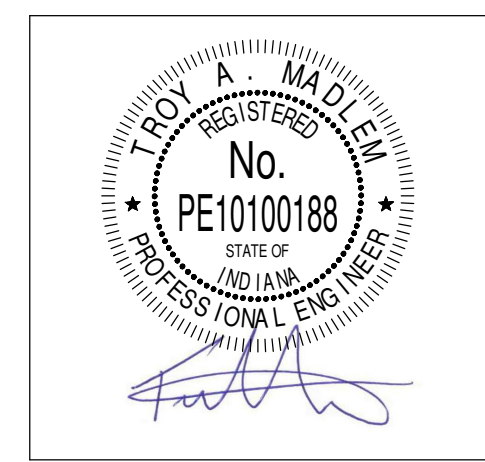
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### KEY PLAN

Construction Documents

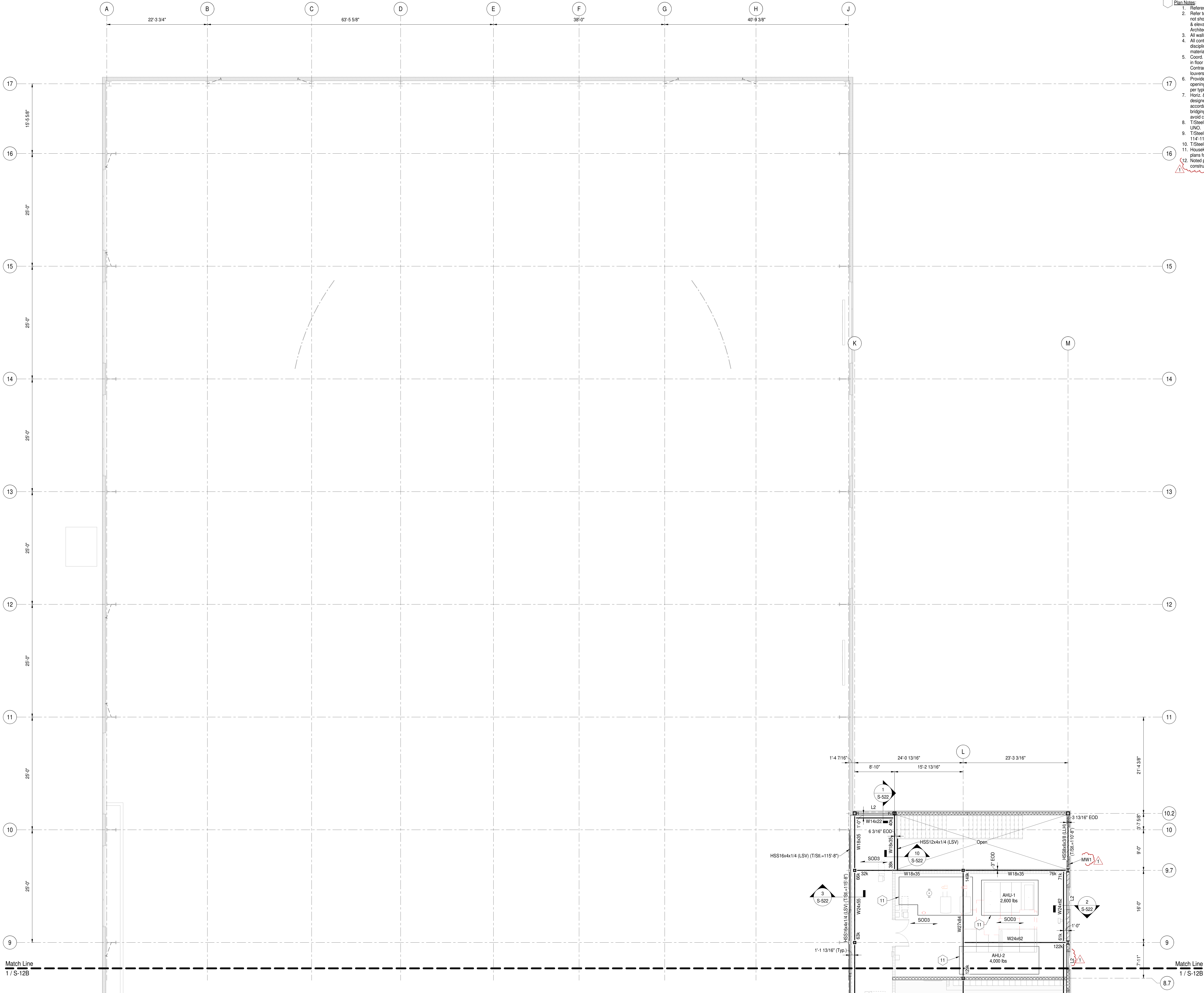


PROJECT MANAGER: JAA		
DRAWN BY: TCM		
PROJECT NUMBER: 22130.00		
PROJECT ISSUE DATE: January 10, 2024		
REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

Foundation & Framing Plan - Alternates

# S-11C

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1/26/2024 12:56:31 PM



- Plan Notes:**
1. Reference elevation = 100'-0" (746.00' NAVD88).
  2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
  3. All walls shall be laid out from the arch. drawings.
  4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
  5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
  6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
  7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ SJI requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
  8. T/Steel Elev. @ H.C. Planks (SOD3) = 114'-4" UNO.
  9. T/Steel Elev. @ Composite Slab (SOD1) = 114'-11" UNO.
  10. T/Steel Elev. @ Roof Deck (D1) = 112'-0" UNO.
  11. Housekeeping pad (See typ. detail). Ref. Mech. plans for location & extents.
  12. Noted partition support is part of Alternate construction (omit from base bid).

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**MAGNUS ENGINEERING**

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63501 Beech Rd, Wakarusa, IN 46573  
contactus@MagnusEng.com  
www.MagnusEng.com

**KEY PLAN**

Construction Documents

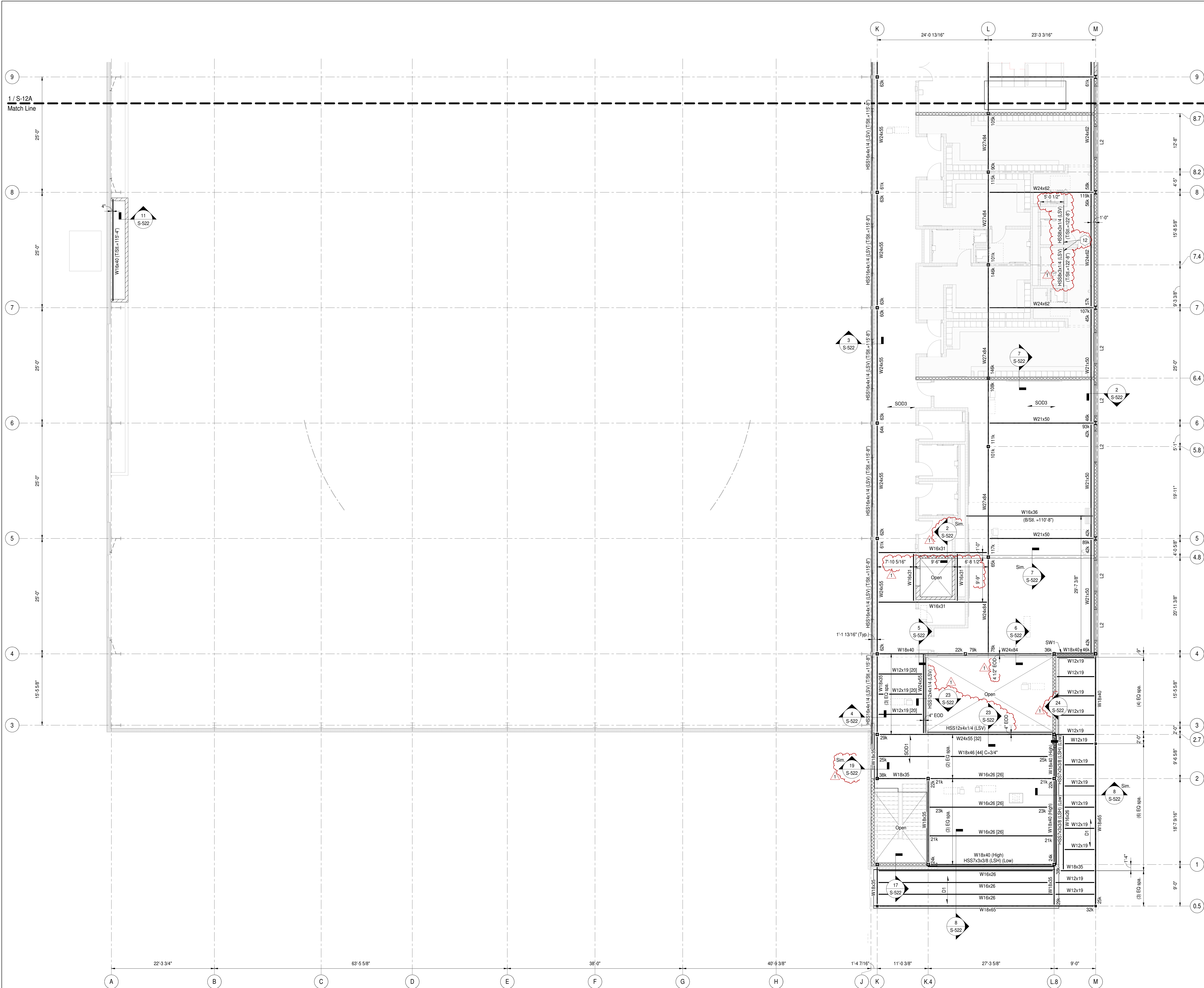
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DRAWN BY: TCM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

**Second Floor Framing Plan - Unit A**

**S-12A**

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1/26/2024 12:58:32 PM



- Plan Notes:**
- Reference elevation = 100'-0" (746.00' NAVD88).
  - Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
  - All walls shall be laid out from the arch. drawings.
  - All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
  - Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
  - Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
  - Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ SJI requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
  - T/Steel Elev. @ H.C. Planks (SOD3) = 114'-4" UNO.
  - T/Steel Elev. @ Composite Slab (SOD1) = 114'-11" UNO.
  - T/Steel Elev. @ Roof Deck (D1) = 112'-0" UNO.
  - Housekeeping pad (See typ. detail). Ref. Mech. plans for location & extents.
  - Noted partition support is part of Alternate construction (omit from base bid).

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KEY PLAN

Construction Documents

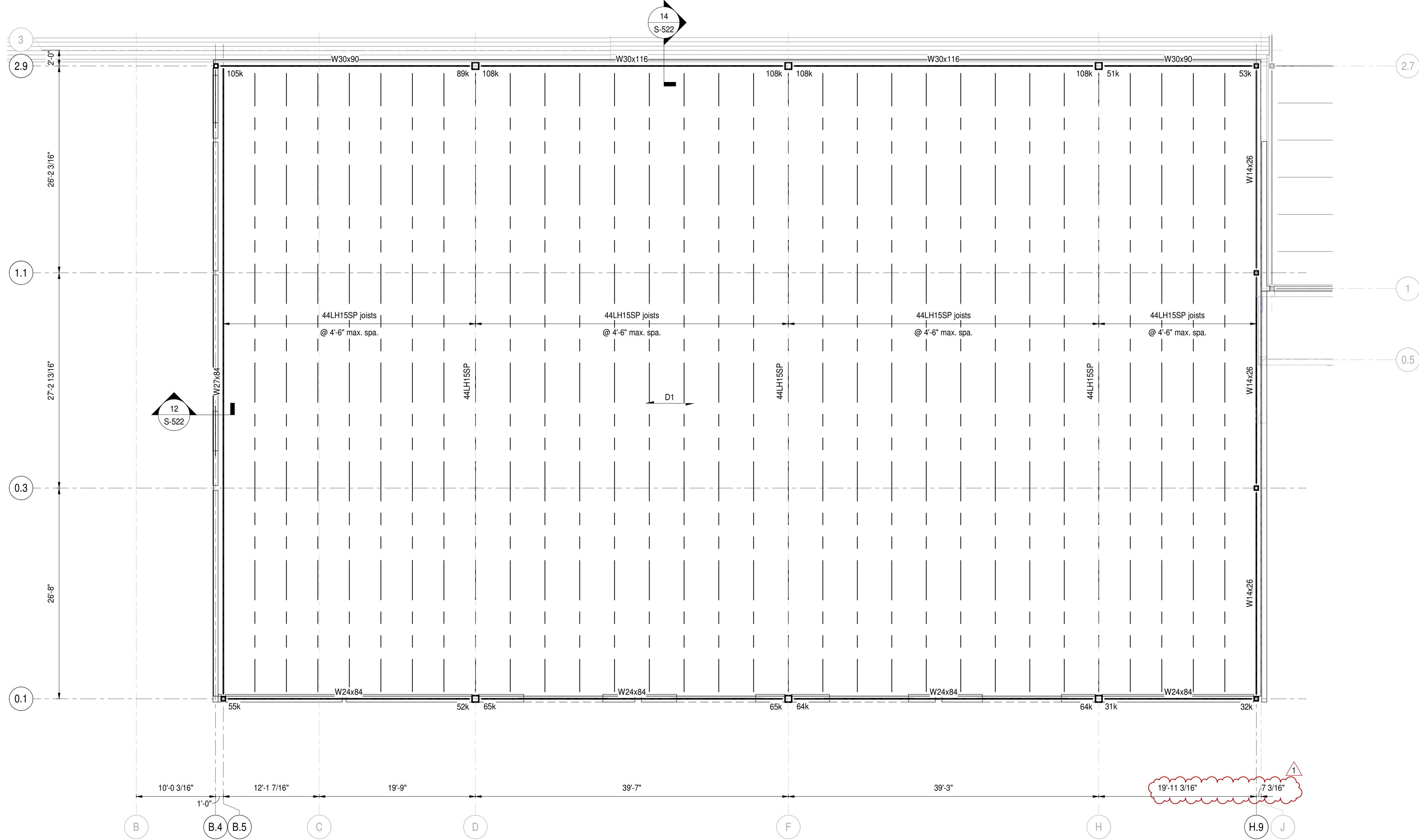
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DRAWN BY: TCM  
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PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
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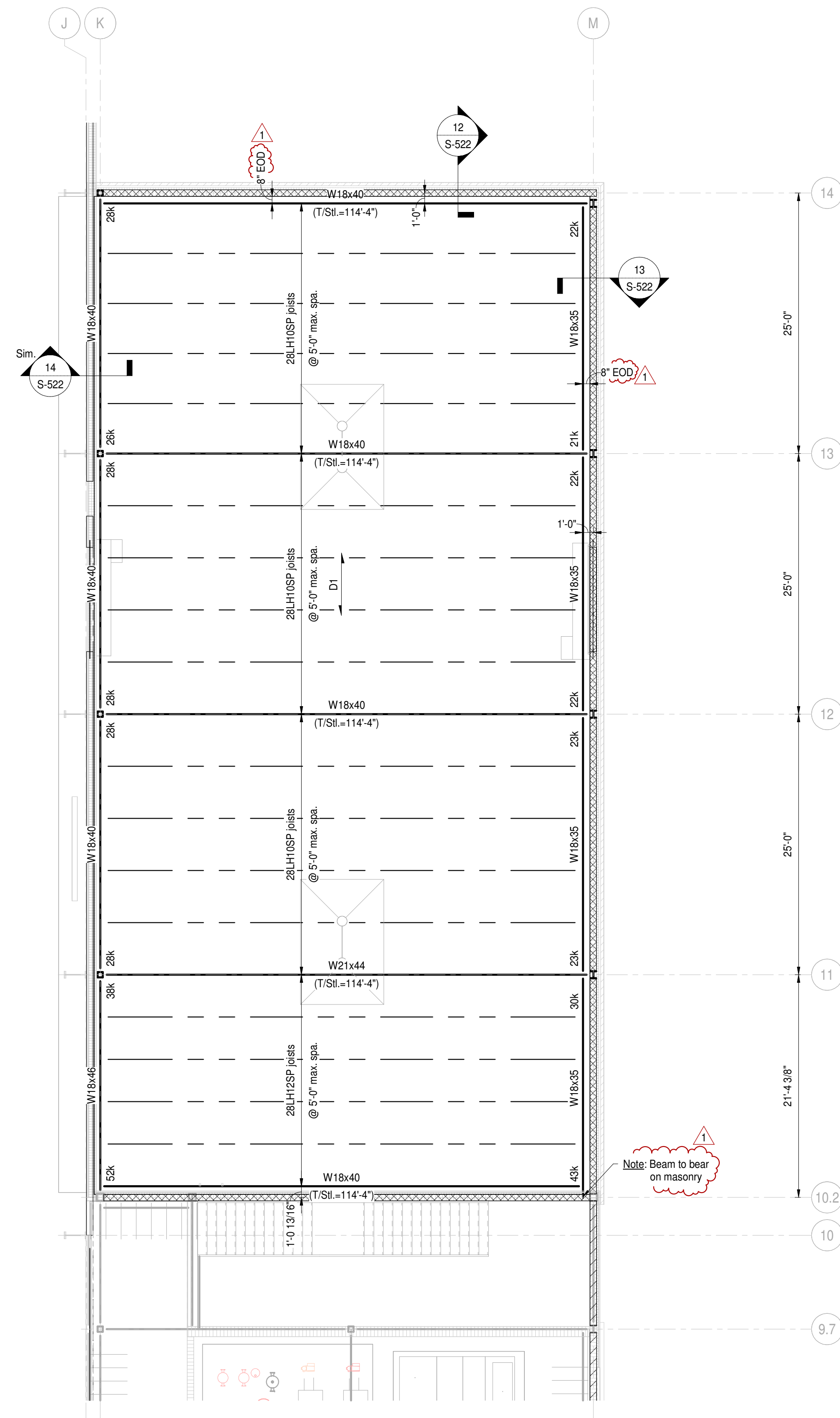
Second Floor Framing Plan - Unit B

# S-12B

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1/26/2024 12:56:33 PM



2 Roof Framing Plan Alternates - Unit D  
Scale: 1/8" = 1'-0"



1 Roof Framing Plan Alternates - Unit C  
Scale: 1/8" = 1'-0"

- Plan Notes:
1. Reference elevation = 100'-0" (746.00' NAVD88).
  2. Refer to Architectural drawings for all dimensions not shown. Contractor shall verify all dimensions & elevations prior to construction and notify Architect & SEOR of any discrepancies.
  3. All walls shall be laid out from the arch. drawings.
  4. All contractor's shall coord. their work w/ all disciplines to avoid conflicts & identify all req'd materials and work.
  5. Coord. exact size & location of all mech. openings in floor slabs, roof decks & walls w/ the Mech. Contractor. Location & size of all duct openings, louvers, etc. shall be verified prior to construction.
  6. Provide channel frames at all supported slab openings and angle frames at all roof openings per typical details.
  7. Horiz. & diag. bridging for steel joists shall be designed, located & provided by joist supplier in accordance w/ SJI requirements. All diag. bridging shall be coordinated w/ mech. plans to avoid conflicts w/ duct runs.
  8. Joist Bearing Elev. (Unit C) = 113'-11" UNO.
  9. Joist Bearing Elev. (Unit D) = 128'-11" UNO.

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## PENN HIGH SCHOOL FIELDHOUSE

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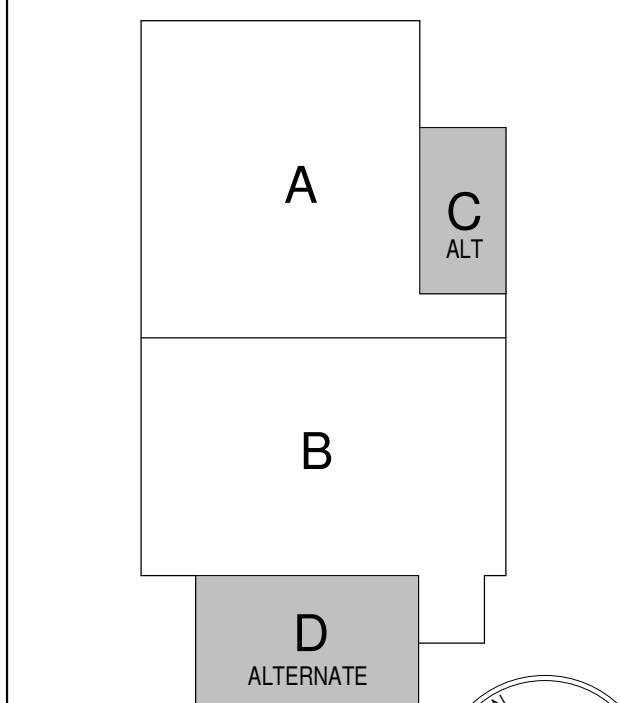
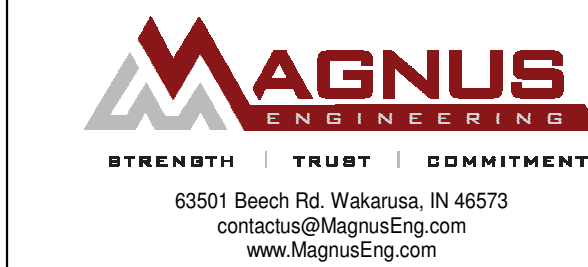


ARCHITECT

## FANNING HOWE

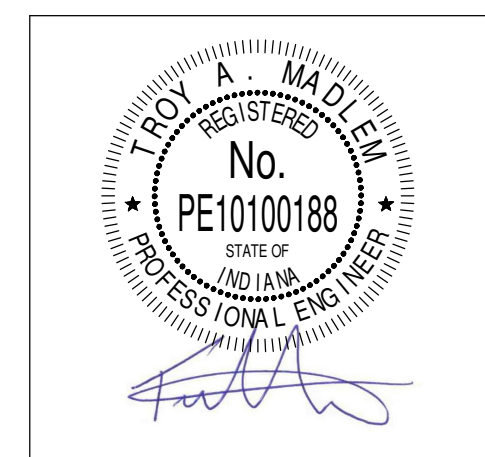
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### KEY PLAN

Construction Documents

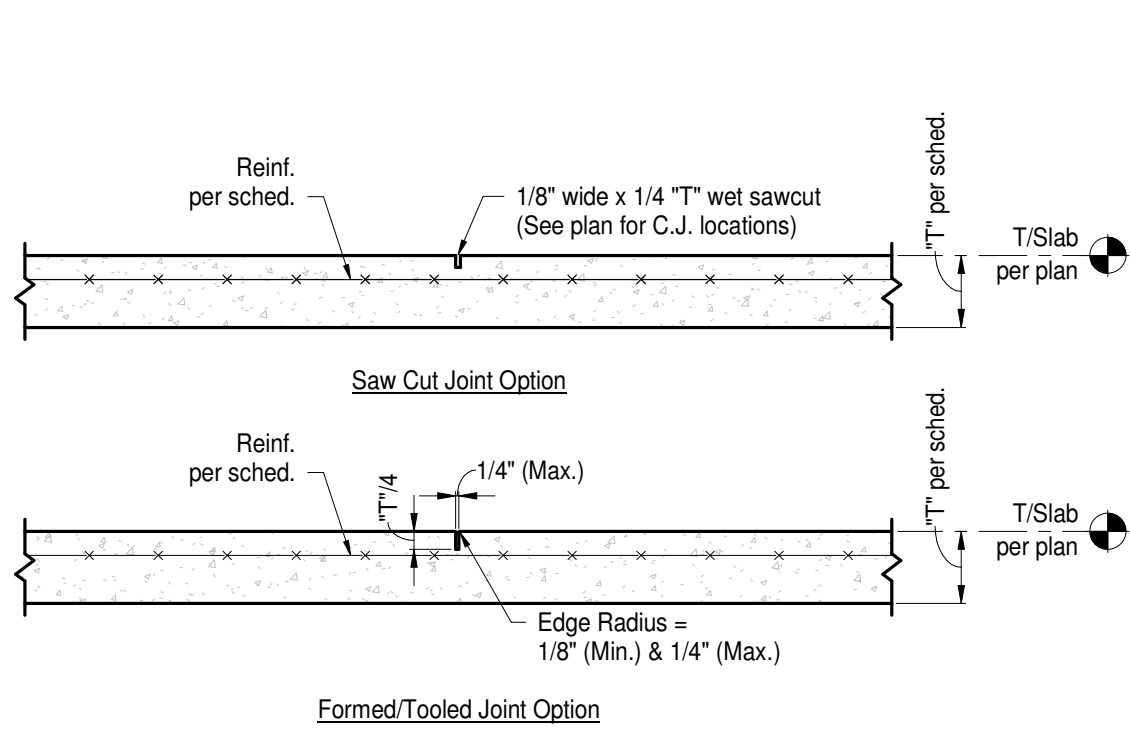


PROJECT MANAGER: JAA  
DRAWN BY: TCM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

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1	Addendum #1	01/26/2024

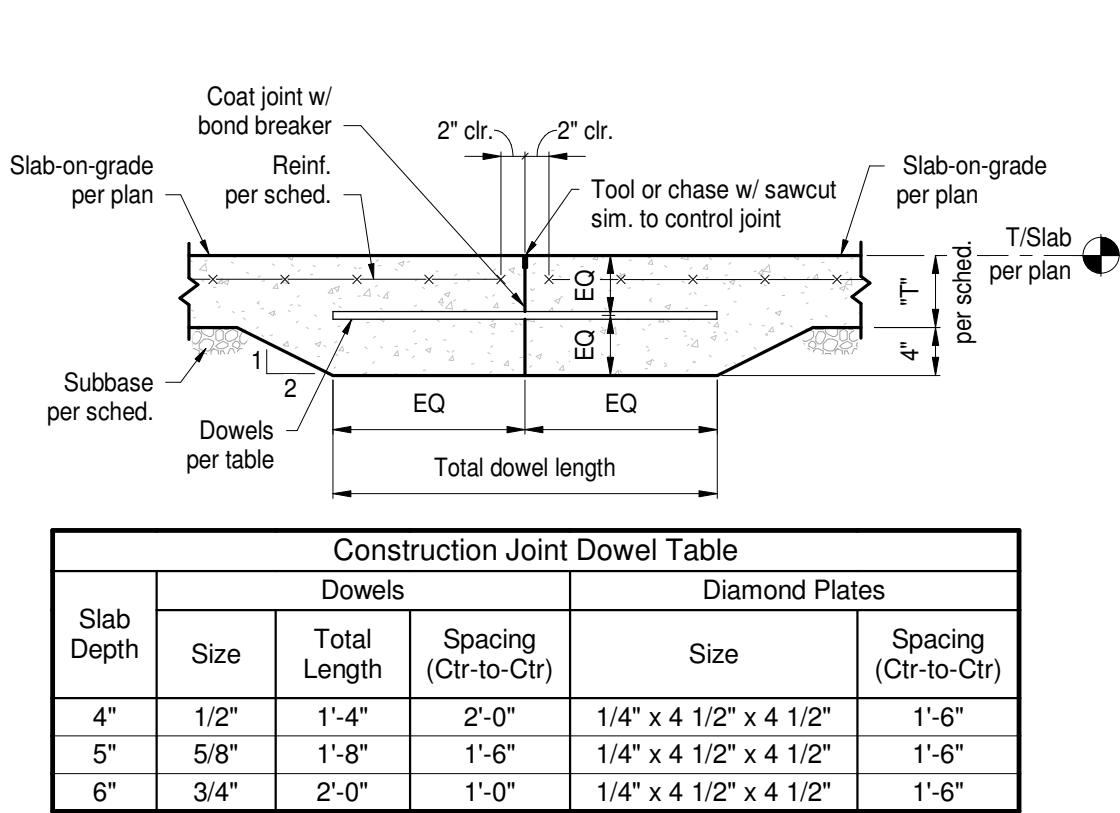
Roof Framing Plans - Alternates

# S-21C



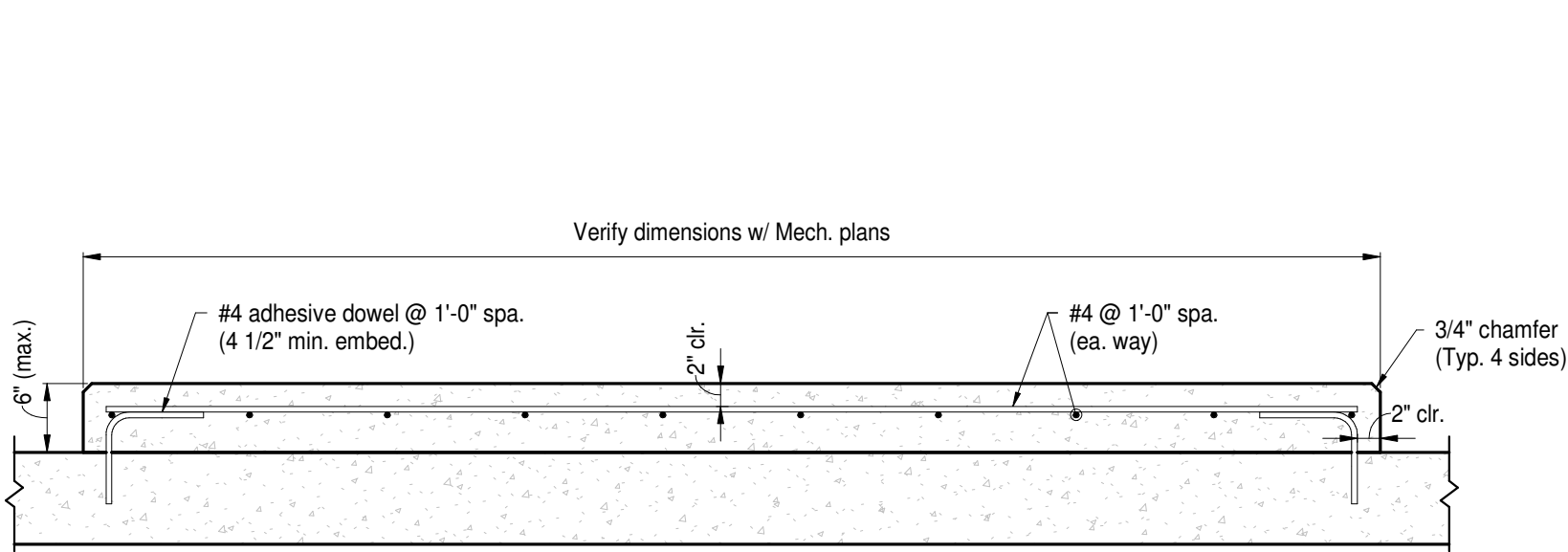
- Notes:
- Control joints shall be sawn as soon after final trowelling as possible while not causing spalling at the joint or dislodging/loosening of the large aggregate. Sawing shall be completed before slab cooling occurs subsequent to the peak heat of hydration. Joints may be tooled formed during finishing operations instead of sawing at Contractor's option.

1 Typ. Control/Contraction Joint  
Scale: N.T.S.



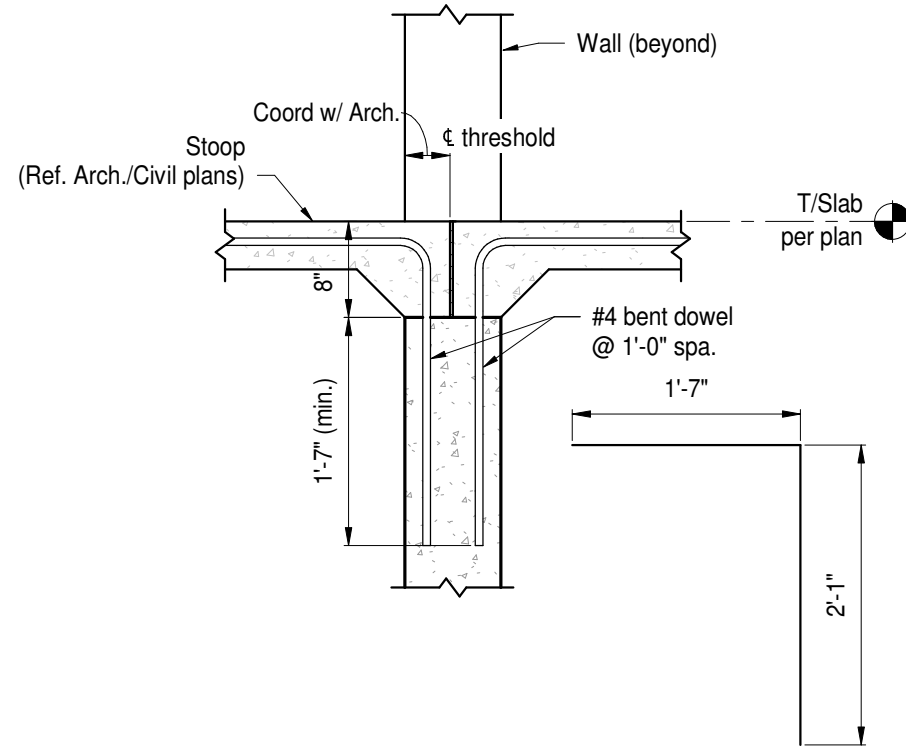
- Notes:
- Construction joints shall be located @ control joint locations.
  - Dowels shall be smooth, greased dowels, free of burrs.

2 Typ. Construction Joint  
Scale: N.T.S.

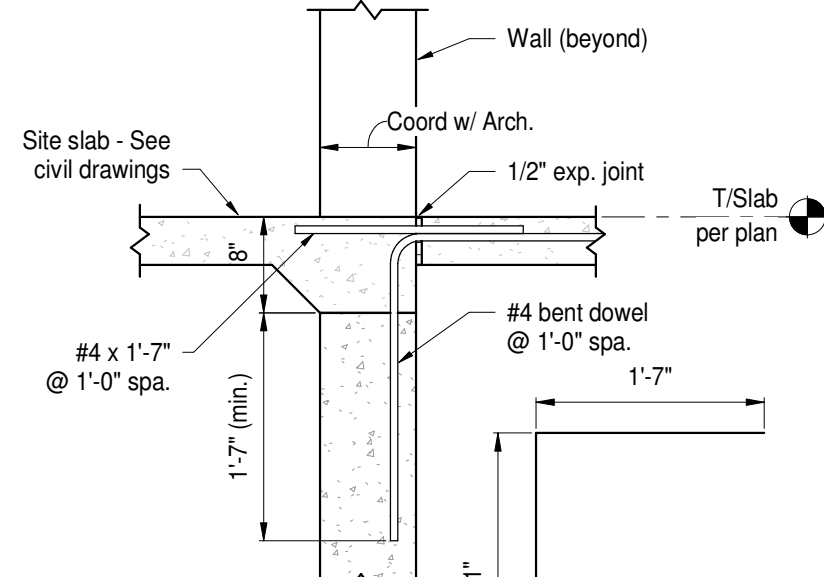


- Notes:
- Coord. exact locations w/ Arch. & Mech. plans & equipment supplier.

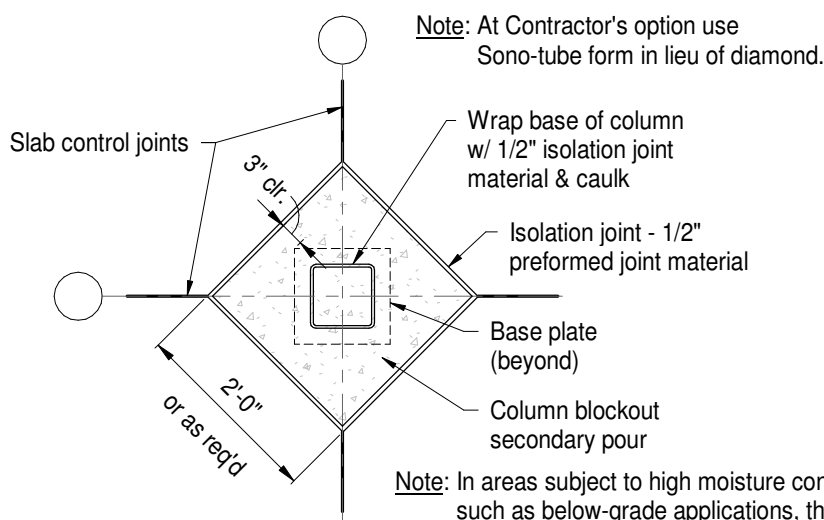
5 Typ. Housekeeping Pad  
Scale: N.T.S.



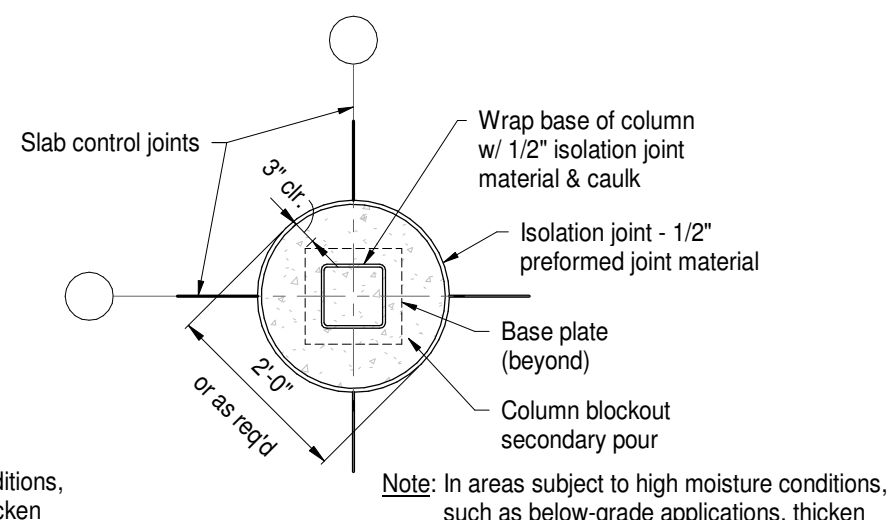
6 Typ. Slab @ Man Door  
Scale: N.T.S.



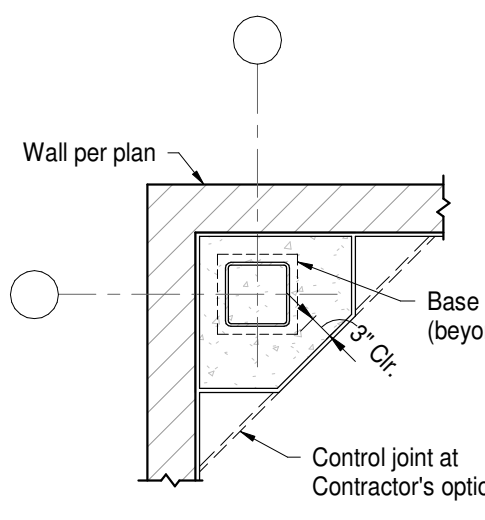
7 Typ. Slab @ O.H. Door  
Scale: N.T.S.



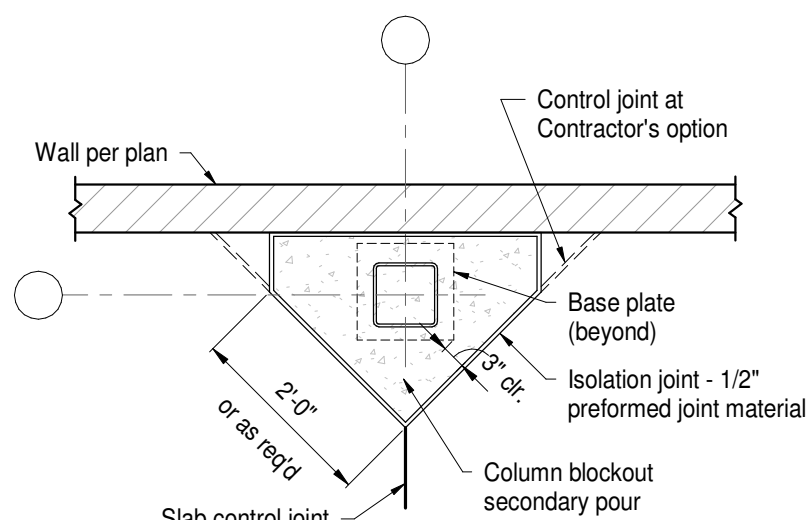
Type "A"



Type "B"



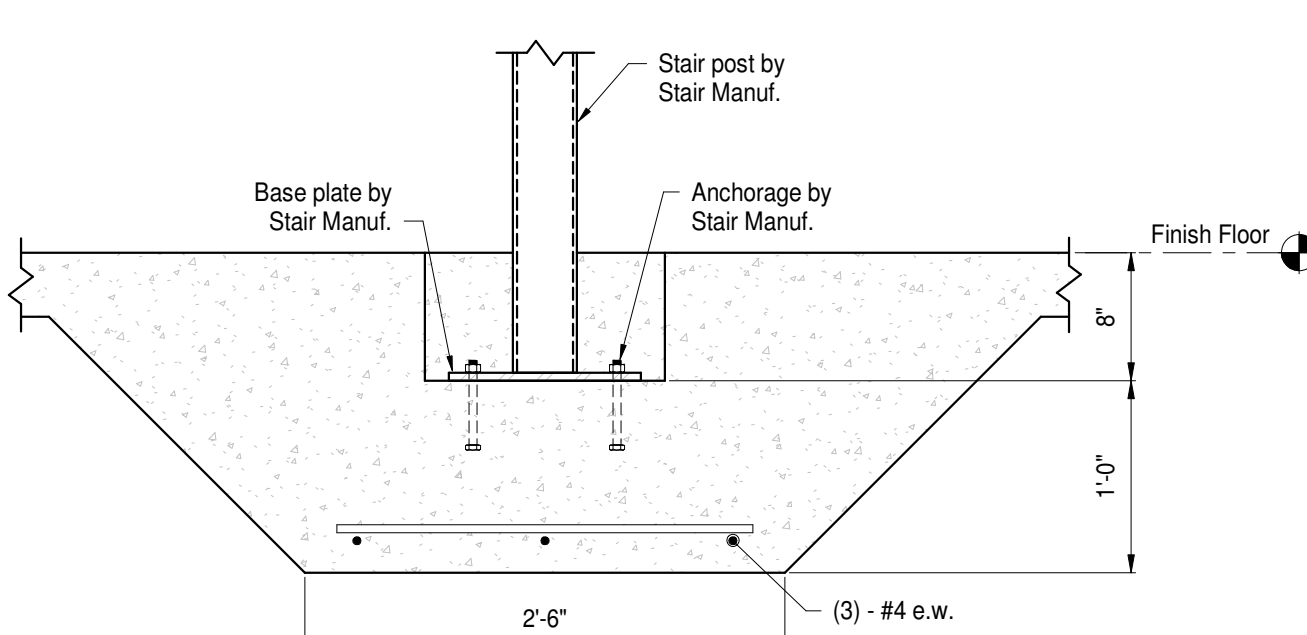
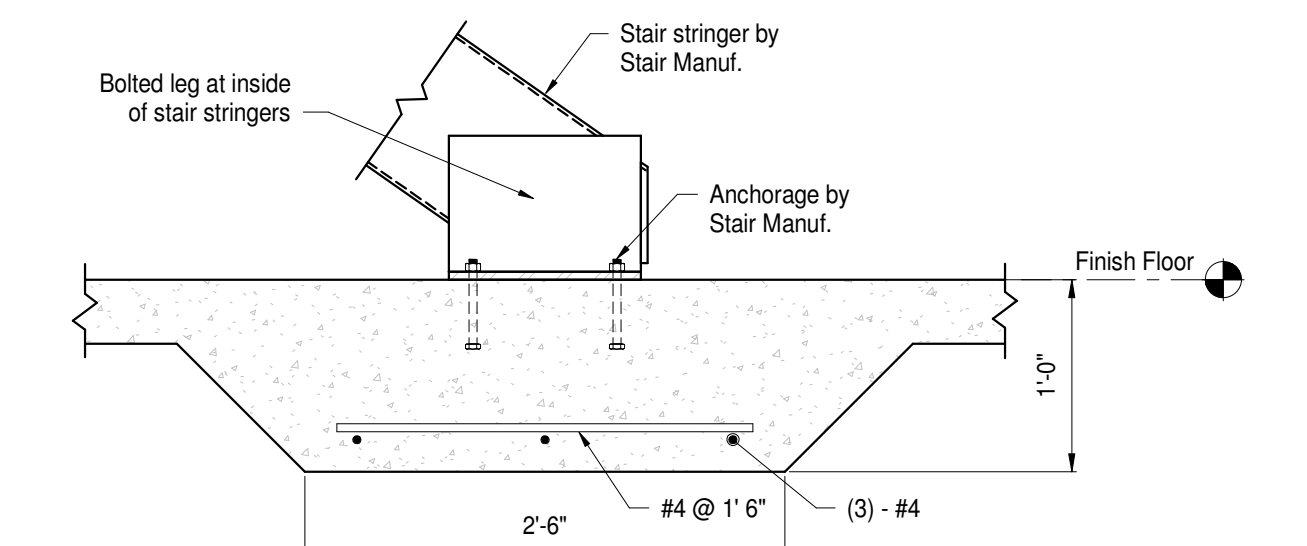
Type "C"



Type "D"

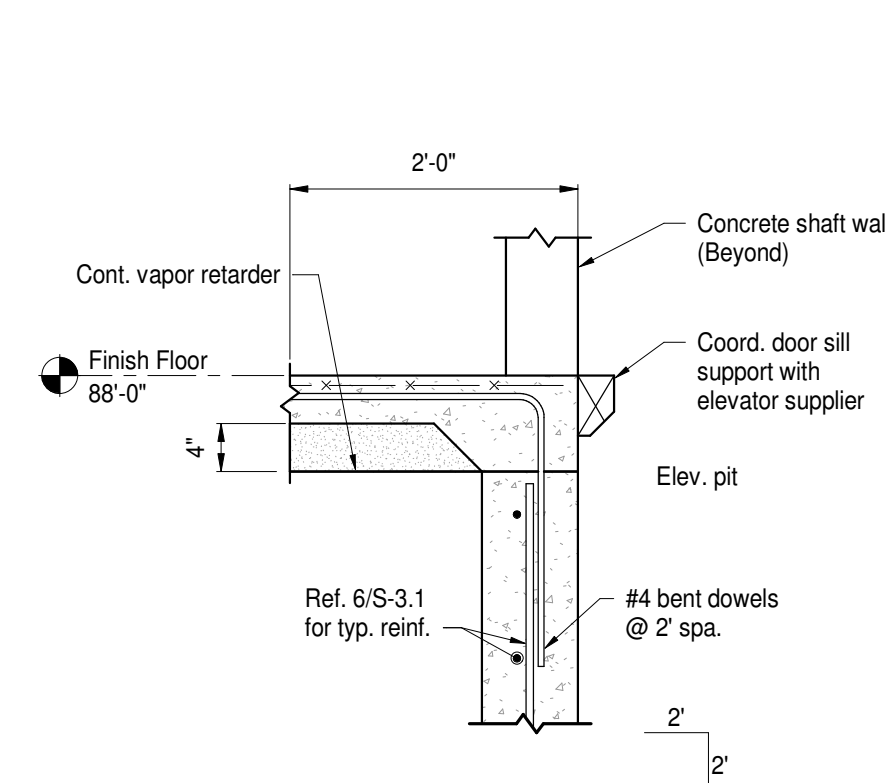
- Notes:
- Tube column shown for illustrative purposes only. Wide flanges, pipes, & other steel shapes are similar.
  - Adjust 2'-0" dim. as req'd to accommodate column base plate and grouting procedures.
  - Where thin-set epoxy terrazzo or vinyl sheet goods are the scheduled floor finish, eliminate the diamond-shaped isolation joint and extend the control joints to the column.
  - Contractor to coord. type of column isolation joint and layout of control joints with Arch. and interior design floor finish plans, particularly in floors scheduled to receive ceramic tile flooring.

3 Typ. Column Isolation Joints  
Scale: N.T.S.

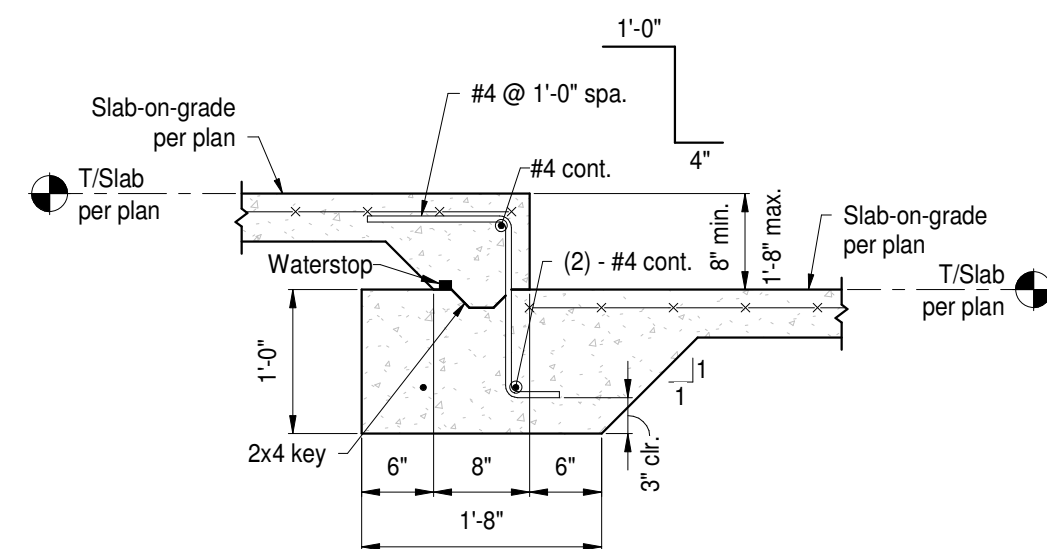
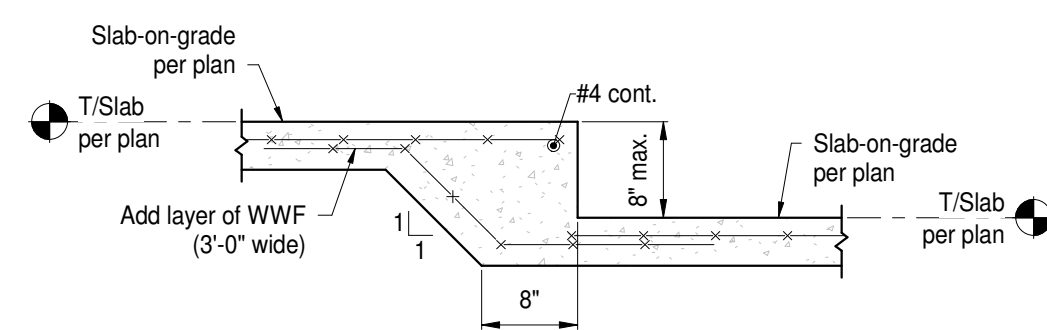


- Notes:
- Contractor shall coordinate extents of required thickness slabs at stairs and provide as shown.

8 Typ. Stair Posts/Stringer Thickened Slab Details  
Scale: N.T.S.



4 Section @ Elev. Door  
Scale: N.T.S.



9 Typ. Recessed Slab  
Scale: N.T.S.

## PENN HIGH SCHOOL FIELDHOUSE

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### PENN-HARRIS-MADISON SCHOOL CORPORATION



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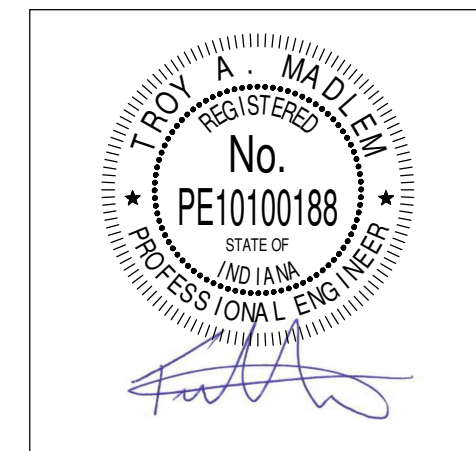
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#### Construction Documents



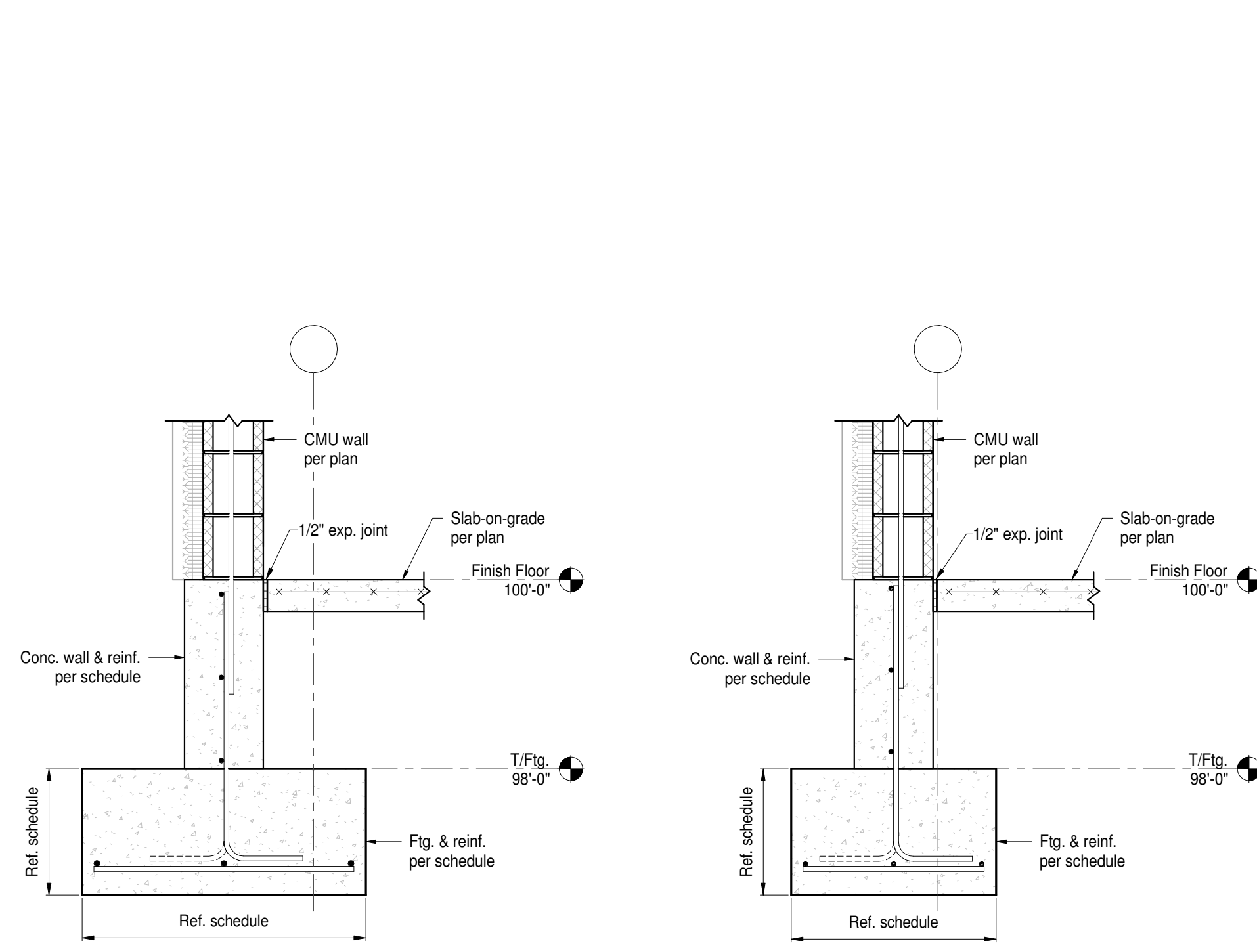
PROJECT MANAGER: JAA  
DRAWN BY: TCM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

Typ. Foundation/Conc. Details

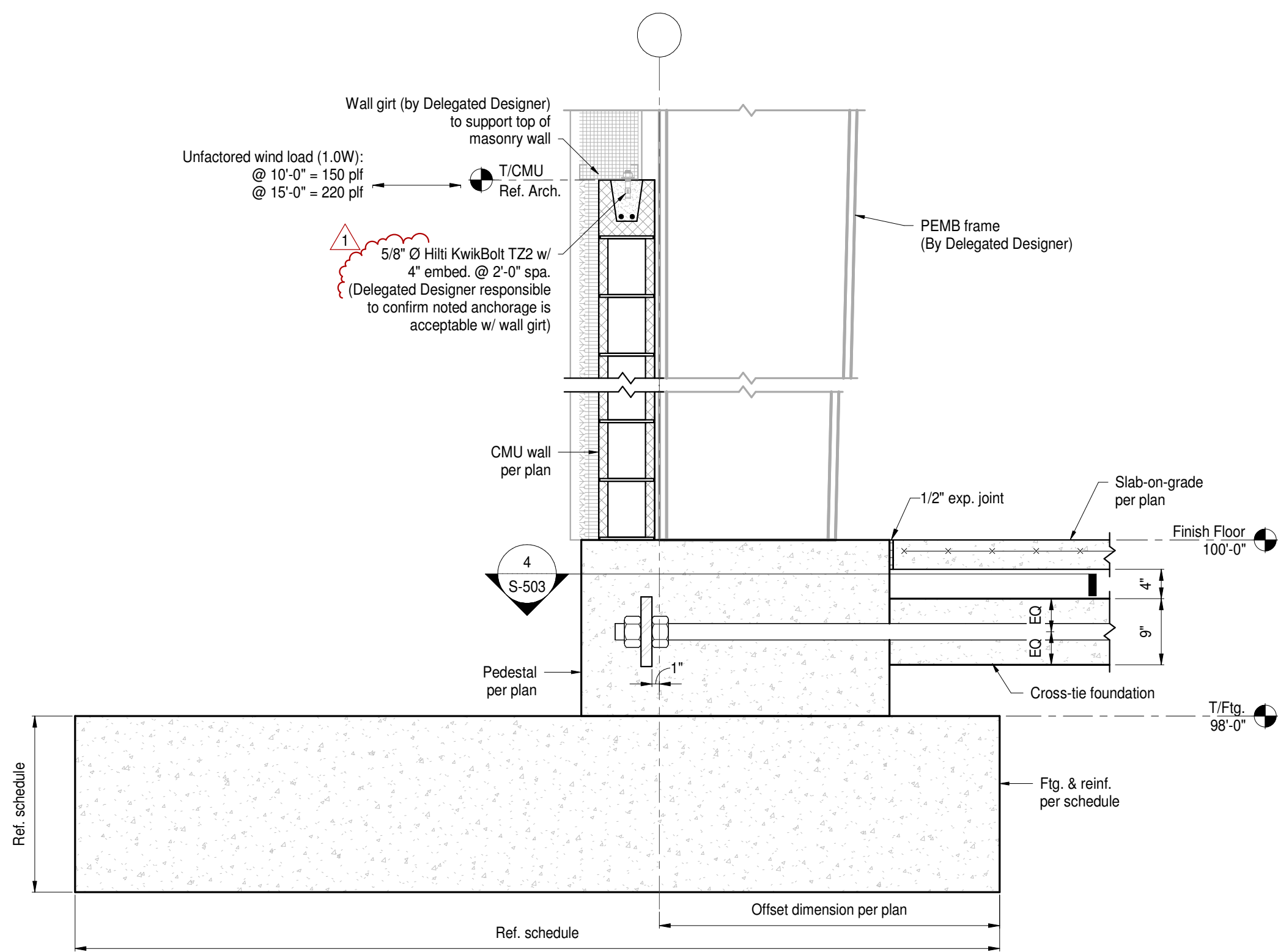
# S-502

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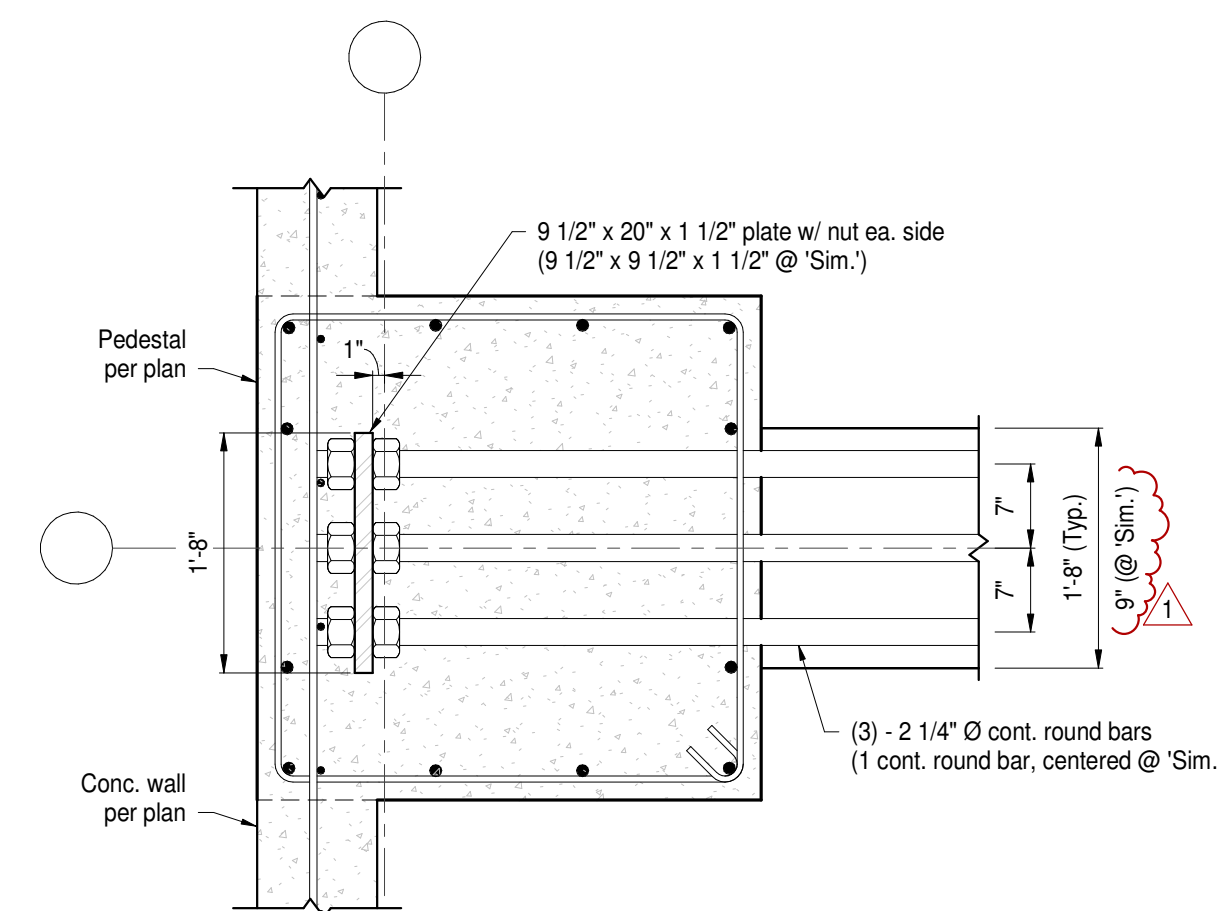


1 Section  
Scale: 3/4" = 1'-0"

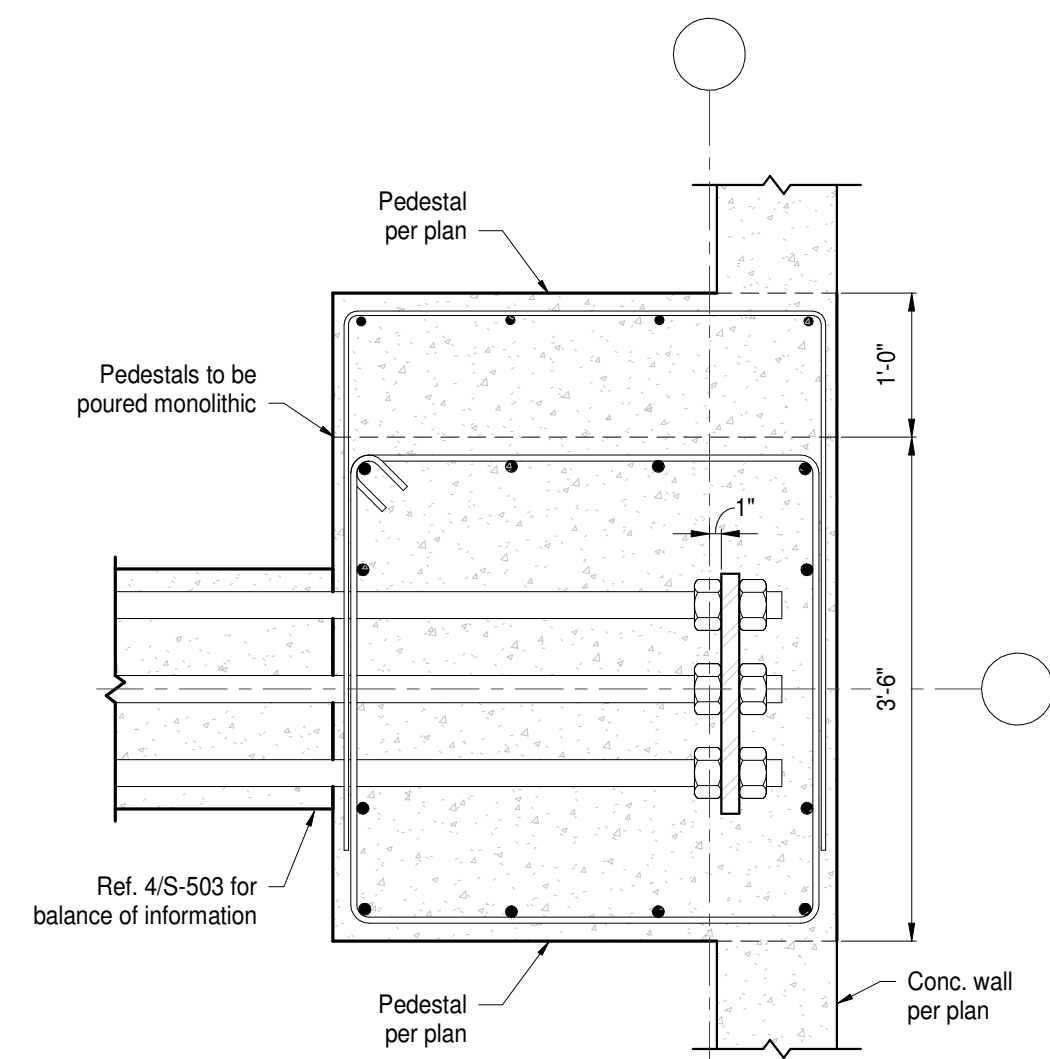
2 Section  
Scale: 3/4" = 1'-0"



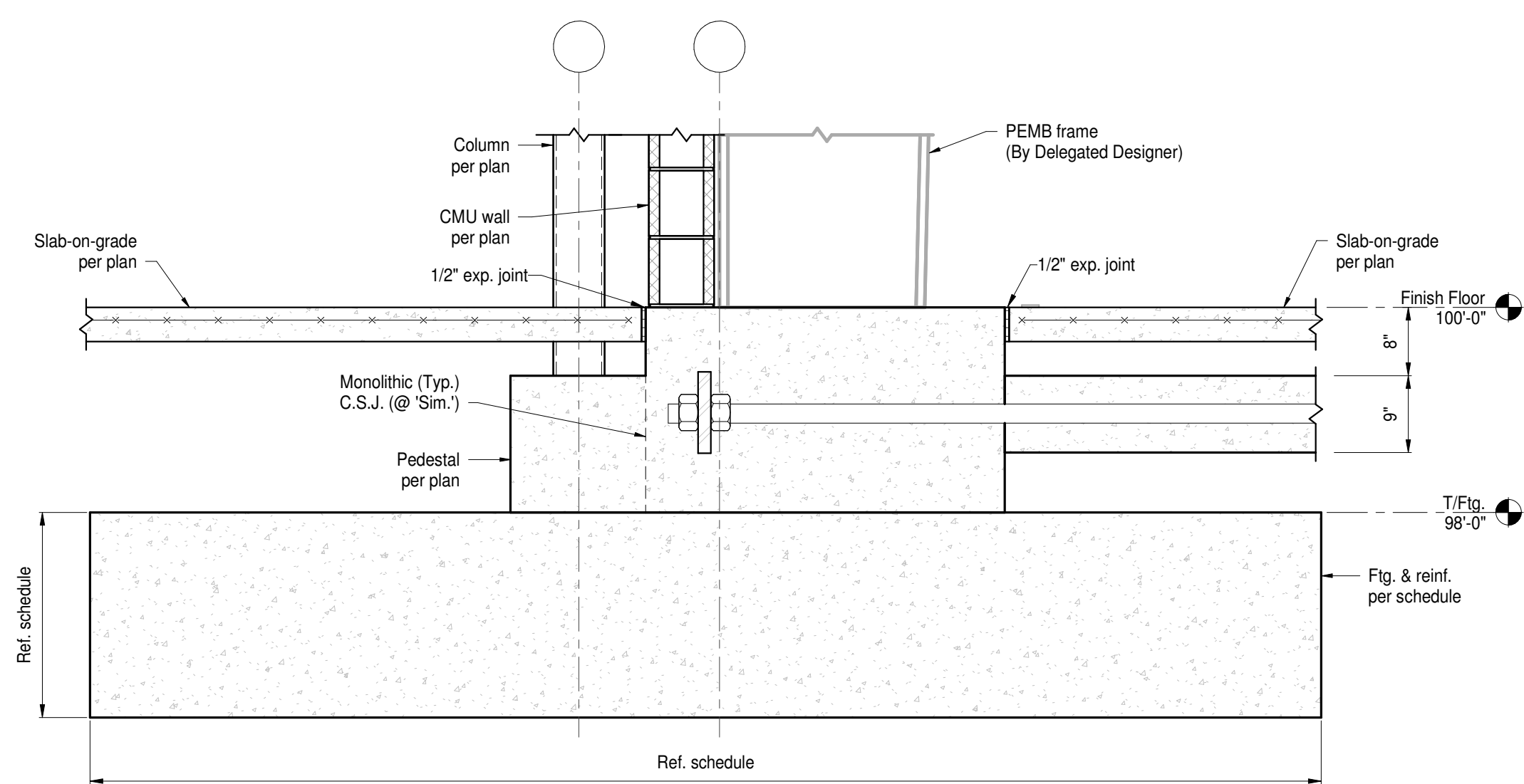
3 Section  
Scale: 3/4" = 1'-0"



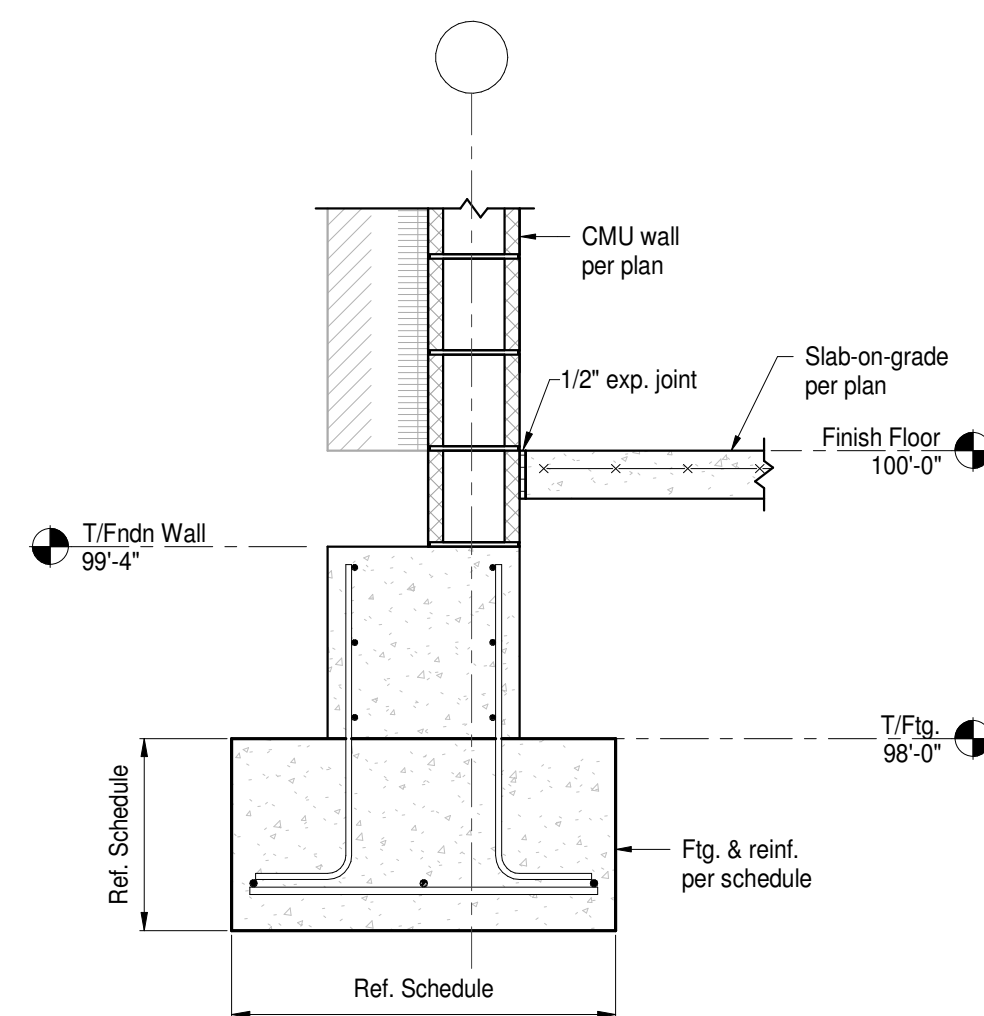
4 Section  
Scale: 3/4" = 1'-0"



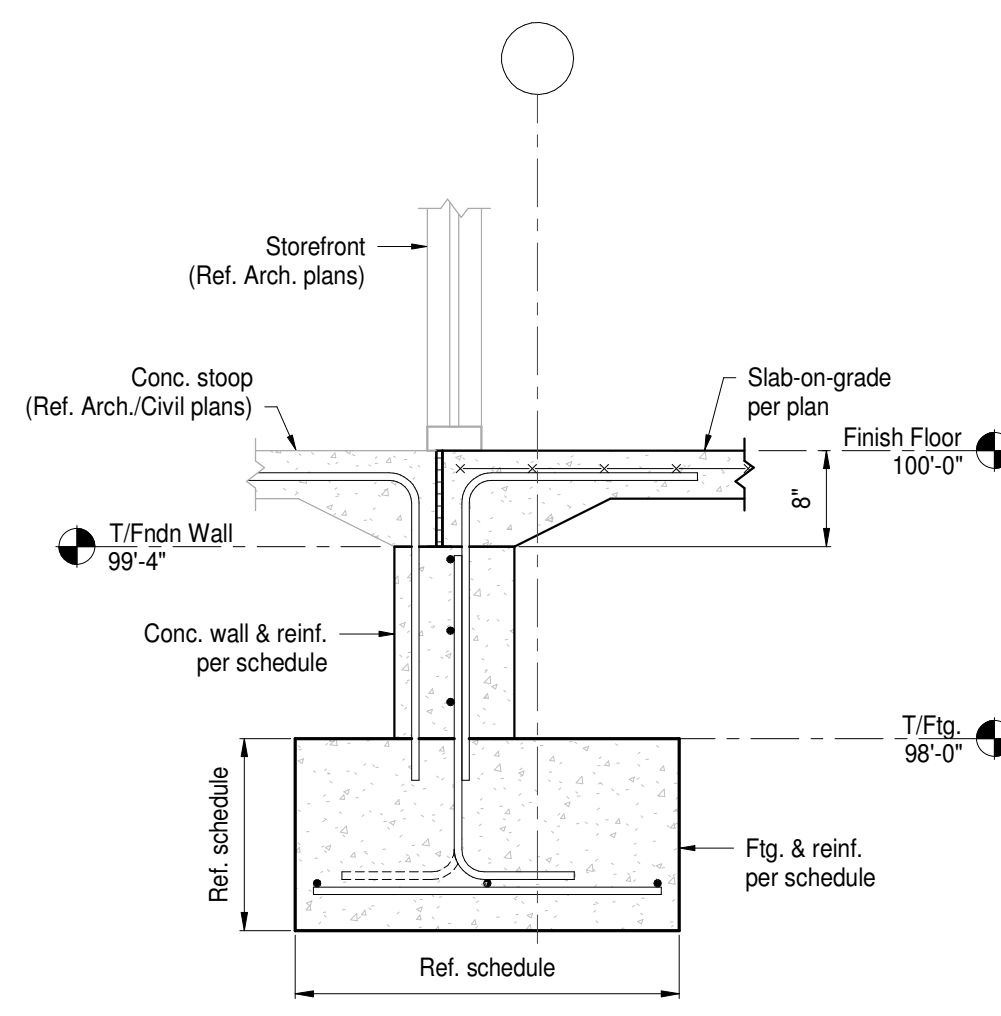
5 Pedestal @ Portal Frame  
Scale: 3/4" = 1'-0"



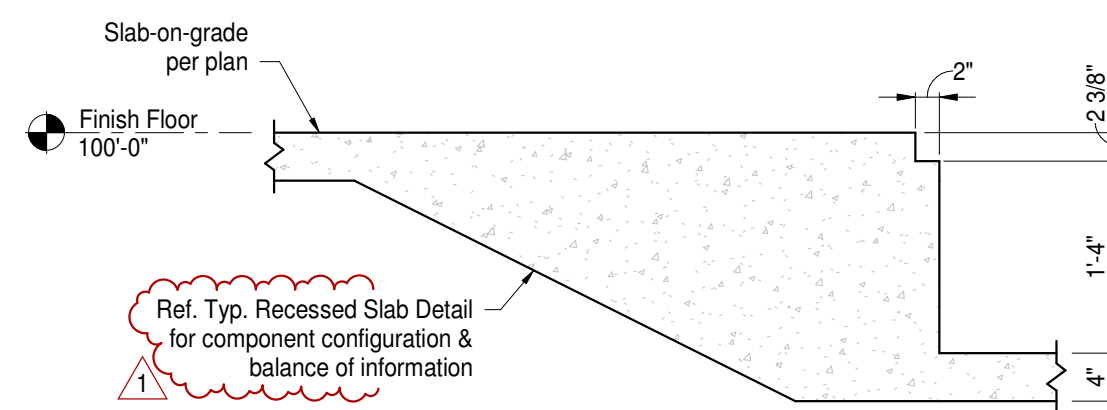
6 Section  
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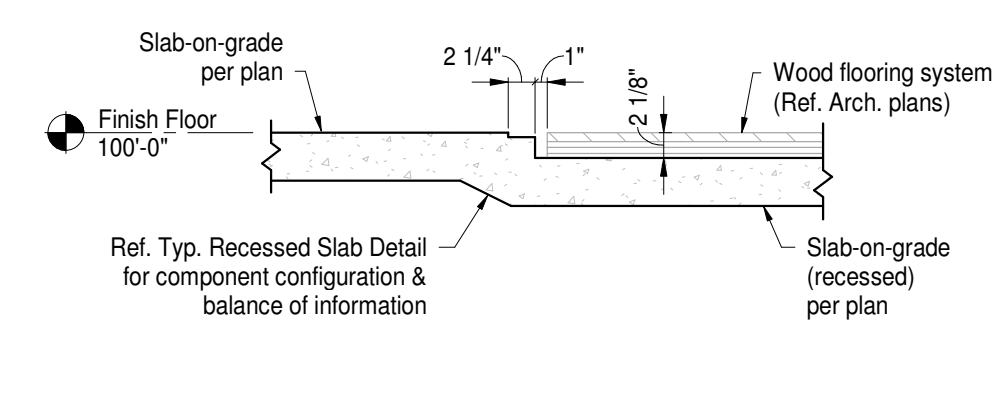
7 Section  
Scale: 3/4" = 1'-0"



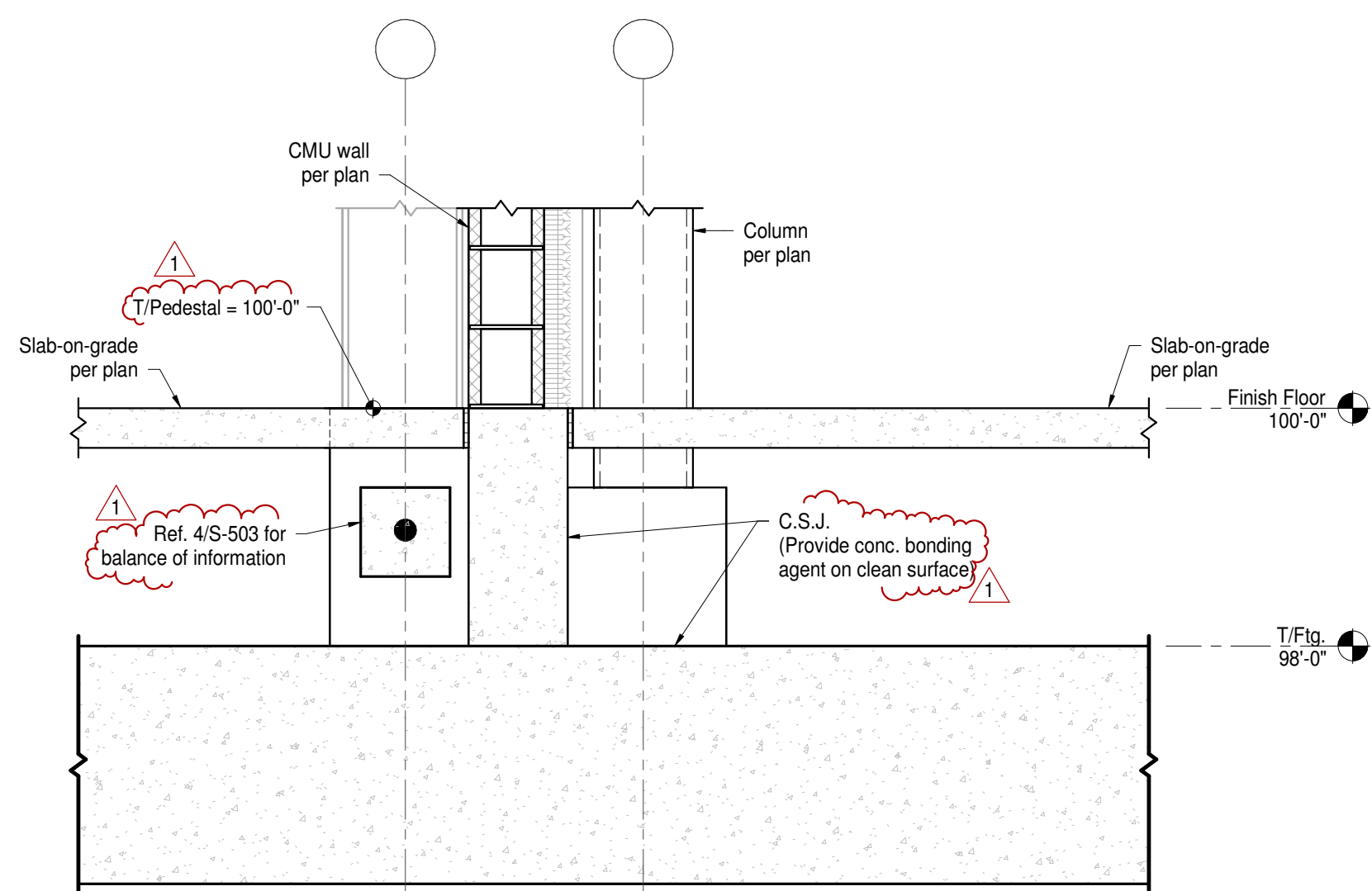
8 Section  
Scale: 3/4" = 1'-0"



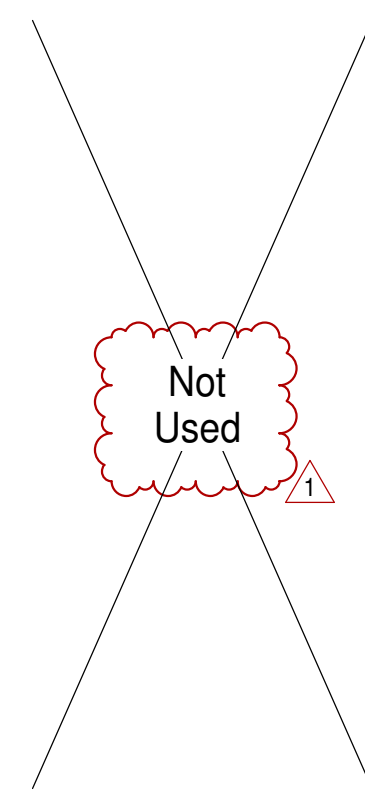
11 Section  
Scale: 3/4" = 1'-0"



12 Section  
Scale: 3/4" = 1'-0"



9 Section (Alt)  
Scale: 3/4" = 1'-0"



10 Section (Alt)  
Scale: 3/4" = 1'-0"

## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

## FANNING HOWEY

317.848.0966

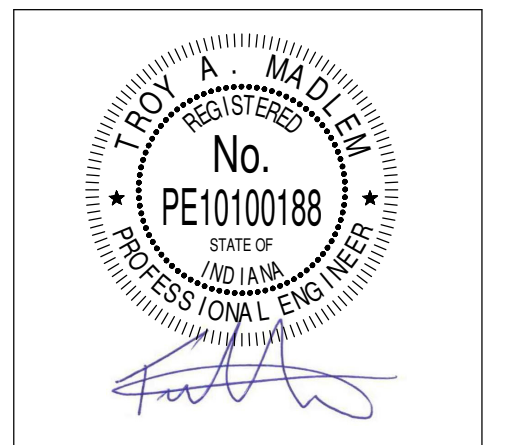
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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204

CONSULTANT



Construction Documents



PROJECT MANAGER: JAA

DRAWN BY: TCM

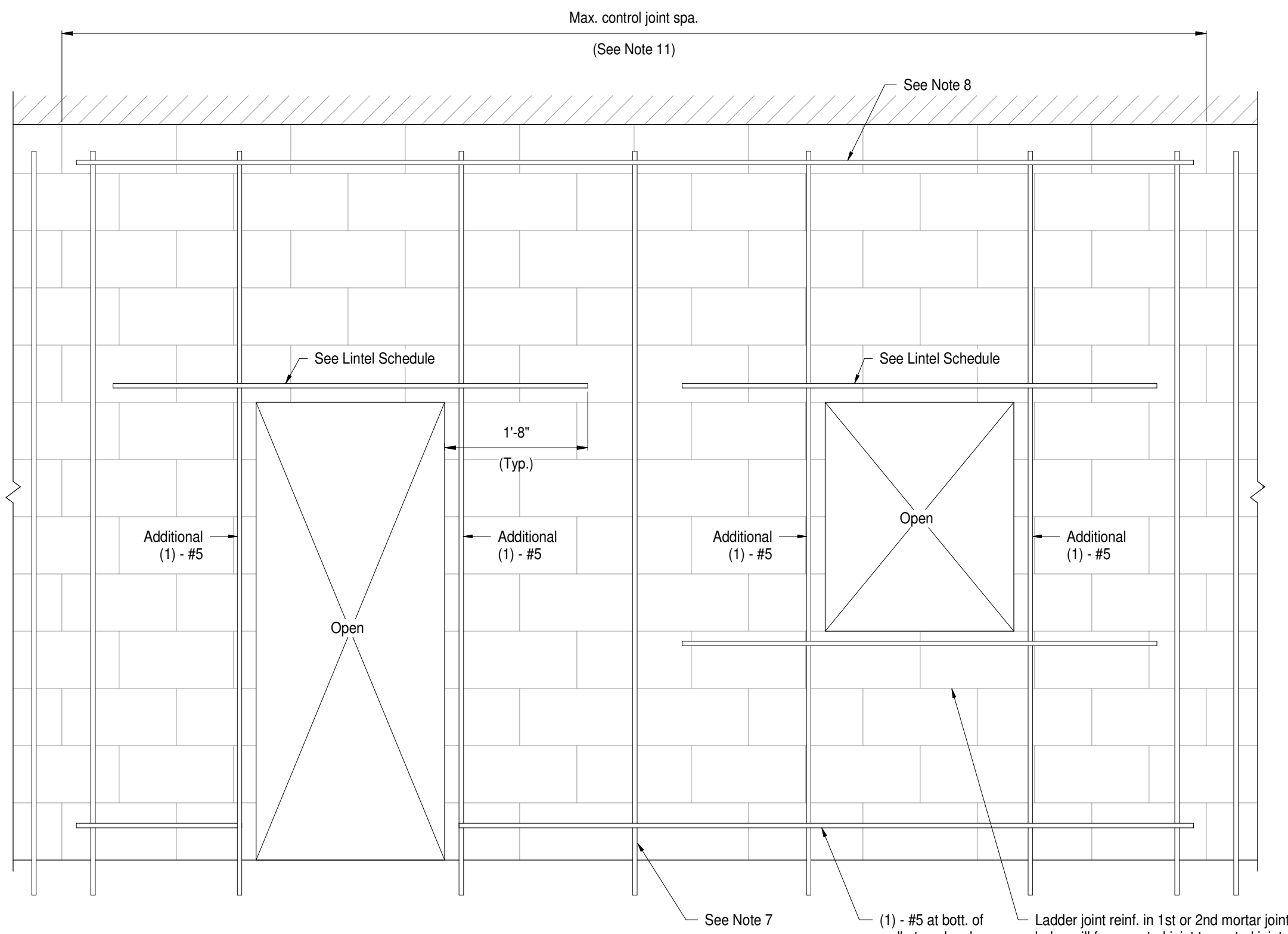
PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

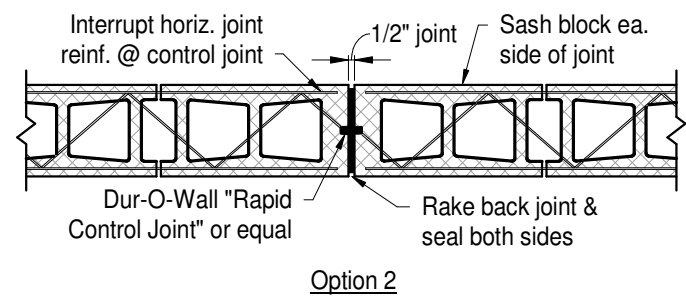
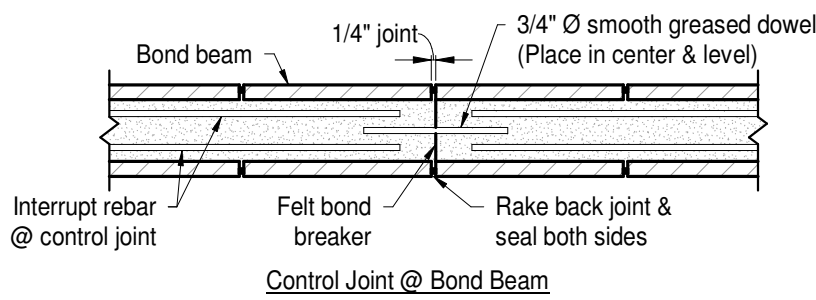
Foundation Details

# S-503

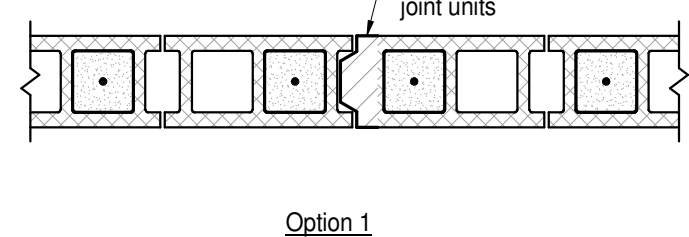


- Notes:**
- Conc. masonry blocks shall be nom. sized 8"x16"x8" w/  $F_{cmu} = 3,750$  psi (min.) UNO on plans.
  - Conc. masonry mortar shall be Type S.
  - Conc. masonry grout shall be  $F_c = 2,500$  (min.) & greater than masonry assembly compressive strength  $f_m = 2,500$  psi (min.).
  - Reinf. steel shall be ASTM A615 w/  $F_y = 60$  ksi (min.).
  - Reinf. shown is typ. at all CMU walls UNO on plans.
  - Horiz. Reinf.:** Provide 9 gauge horiz. joint reinf. @ 1'-4" spa. Lap splice horiz. joint reinf. 75 dia. of side rods or 1'-1" (min.).
  - Vert. Reinf.:** Provide vert. reinf. as noted on drawings & at opening jambs. Provide min. #5 reinf. @ 4'-0" spa. in all walls. Lap splice vert. reinf. per masonry wall reinf. lap splice schedule.
  - Provide horiz. bond beams w/ (2) - #5's cont. at tops of walls and along horiz. length, at any elev. of points of struct. attachment, misc. steel anchorage, or other component or equip. connections. Coord. as req'd w/ Arch. and MEP drawings.
  - Masonry walls (including those portions separating windows or doors) that are  $\leq 4'-0"$  long and  $\geq 2'-6"$  tall must have (2) - #5 bars placed in each end cell and have all cells fully grouted at least to the height of the lintel.
  - All masonry walls shall be constructed of normal weight blocks UNO.
  - Control joints shall be typ. spaced at the lesser of 1.5 times the height of the wall or 25'-0" but as far from lintels as possible within the max. spacing. In addition, control joints shall be placed at locations of stress concentration as follows:
    - At changes in wall height.
    - At change in wall thickness, such as at pipe and duct chases and pilasters.
    - At (above) movement joints in foundations and floors.
    - At (above and below) movement joints in roofs and floors that bear on a wall.
    - Adjacent to corners of walls or intersections within a distance equal to half the typical control joint spacing.

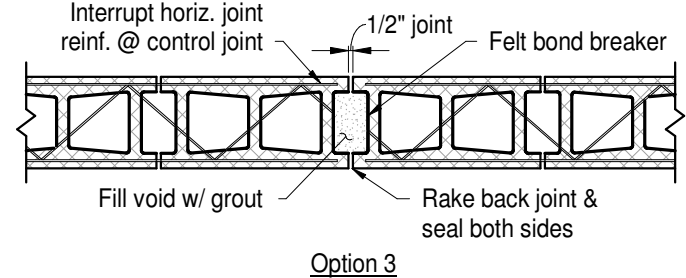
**1 Typ. CMU Wall**  
Scale: N.T.S.



Option 2

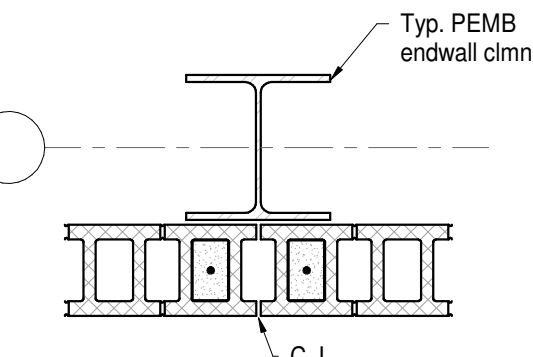
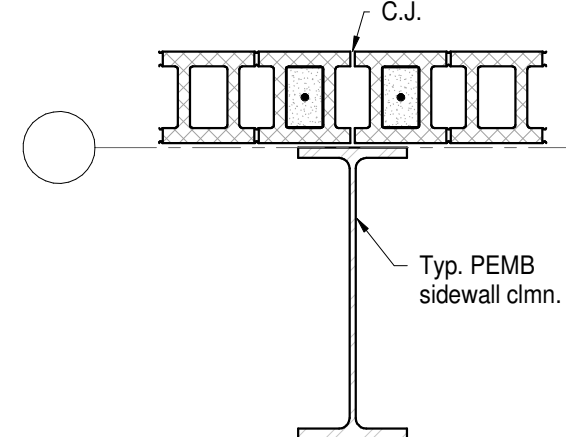
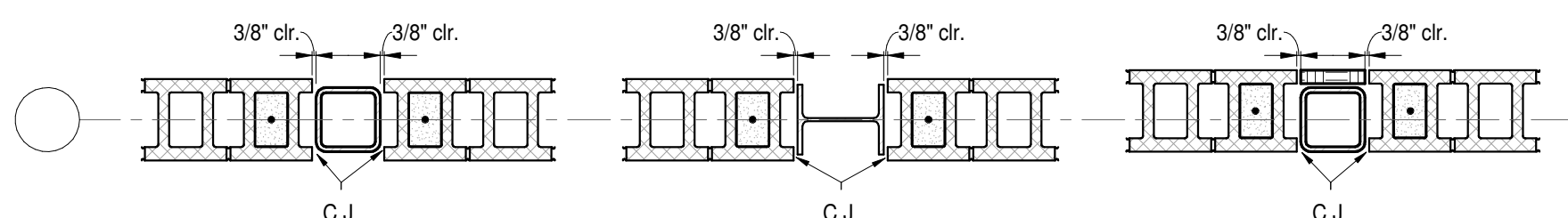


Option 1



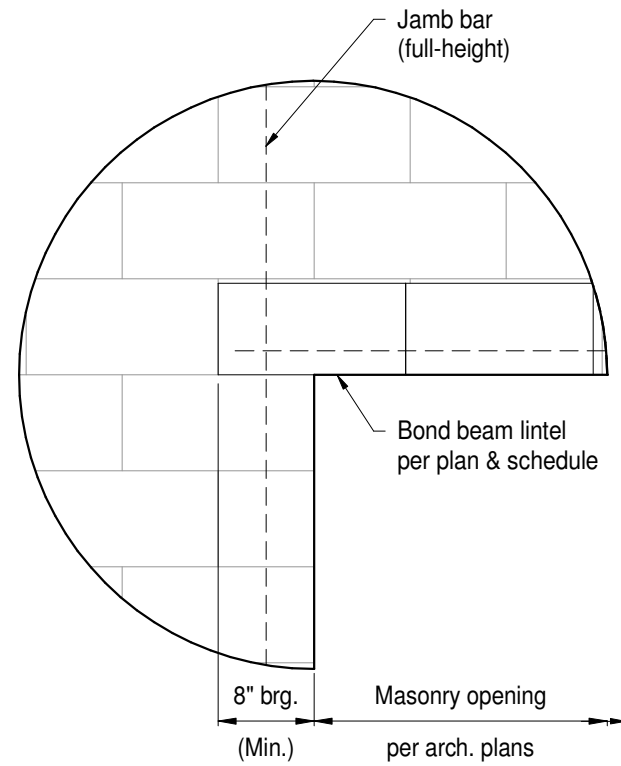
Option 3

**4 Typ. CMU Control Joint Options**  
Scale: N.T.S.

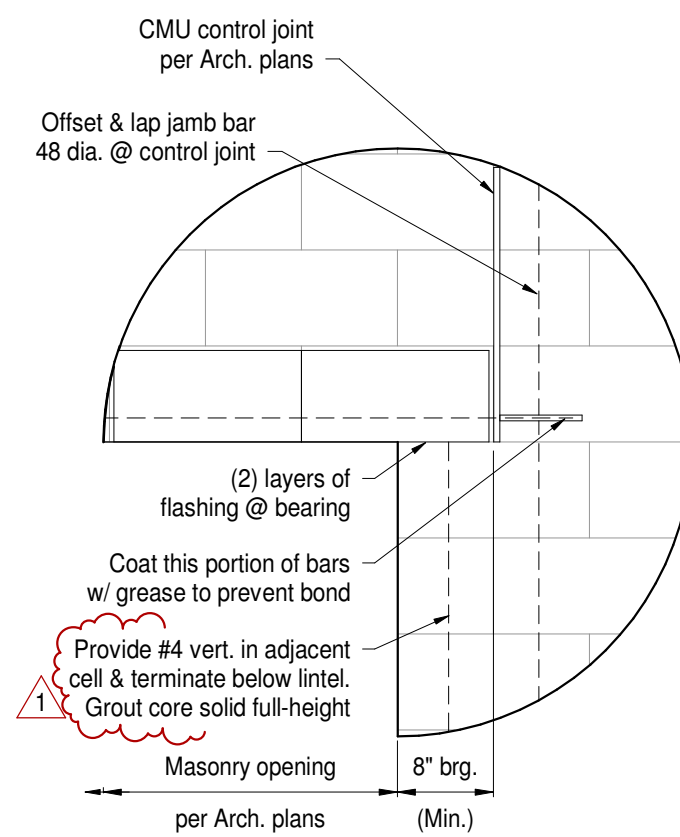


- Notes:**
- Do not use CMU clim. ties unless noted otherwise.
  - Grout and reinf. adjacent cell ea. side. See typ. details for non-load brg. partitions and shear wall sched. for shear walls.
  - Control joints shall be typ. spaced at the lesser of 1.5 times the height of the wall or 25'-0" but as far from lintels as possible within the max. spa. In addition, control joints shall be placed at locations of stress concentration as follows:
    - At change in wall height.
    - At change in wall thickness, such as pipe and duct chases and pilasters.
    - At (above) movement joints in frdn. and floors.
    - At (above and below) movement joints in roofs and floors that bear on a wall.
    - Adjacent to corners of walls or intersections within a distance equal to half the typ. control joint spa.

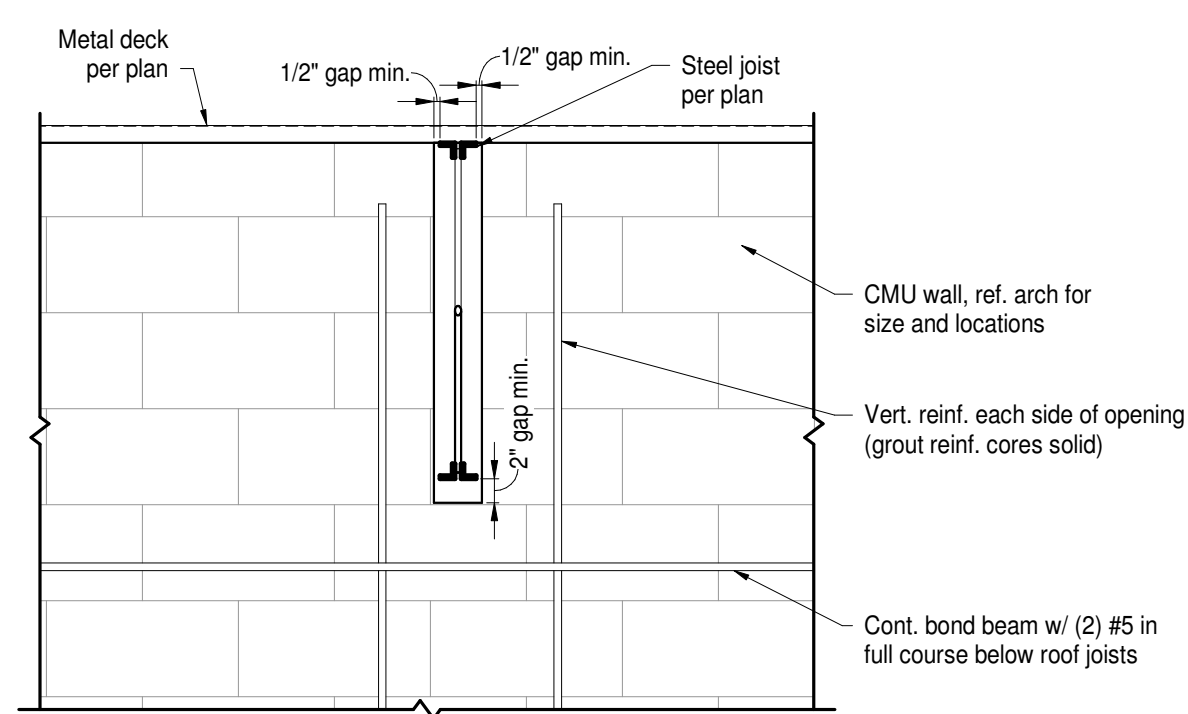
**9 Typ. CMU Control Joint Locations**  
Scale: N.T.S.



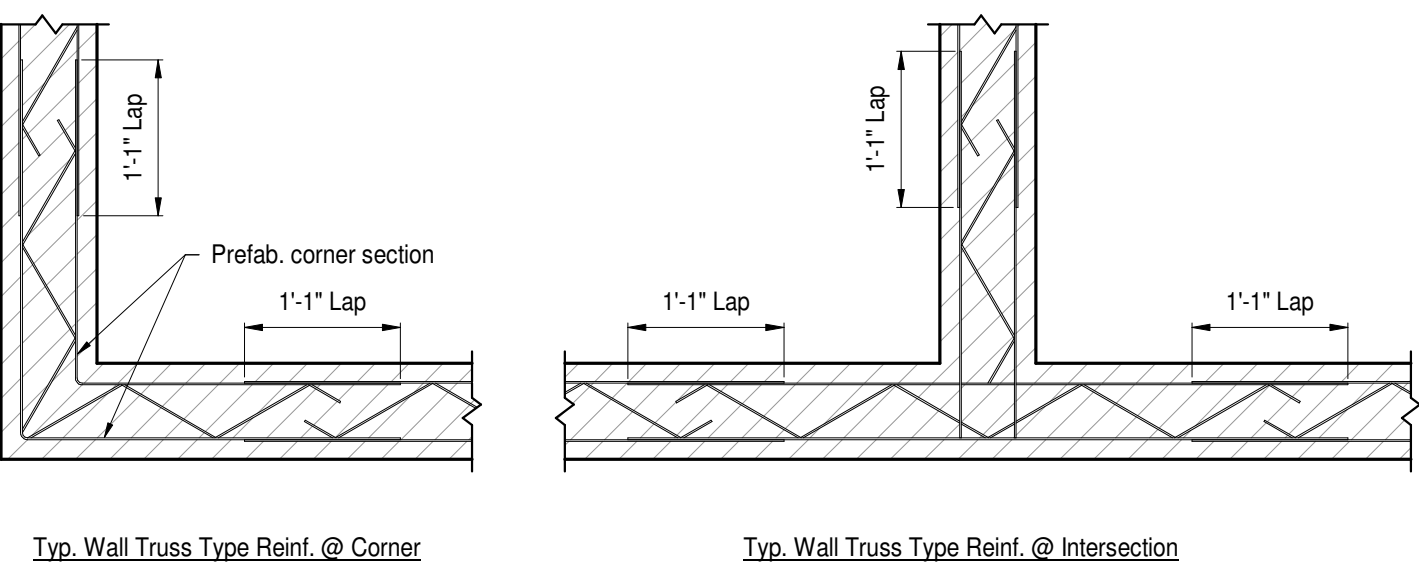
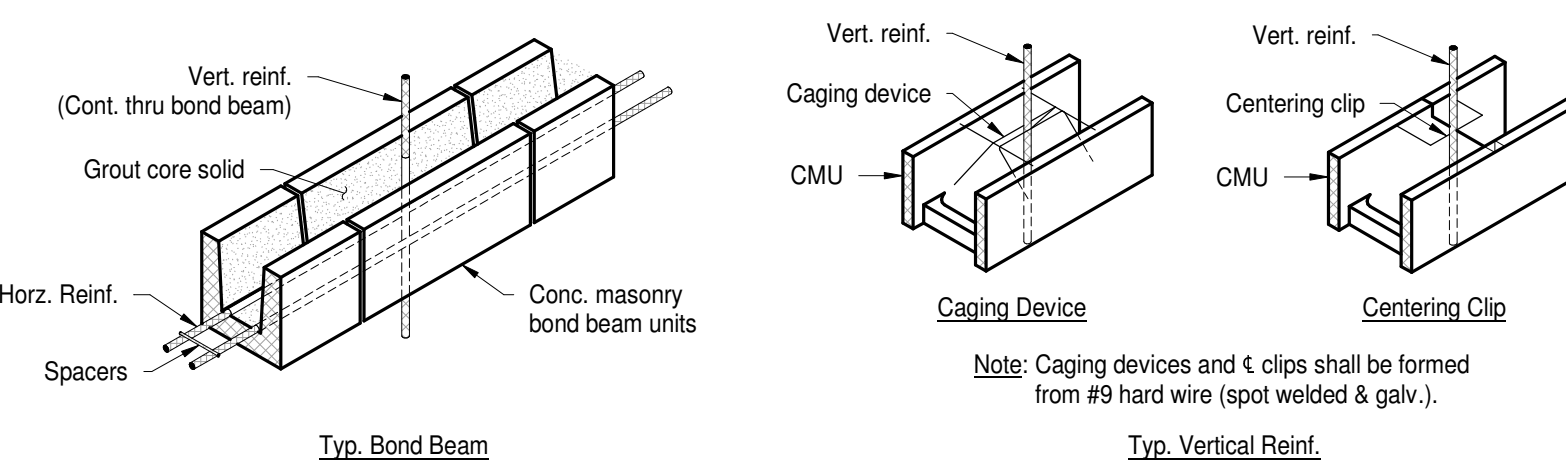
**5 CMU Lintel Bearing (Not @ C.J.)**  
Scale: N.T.S.



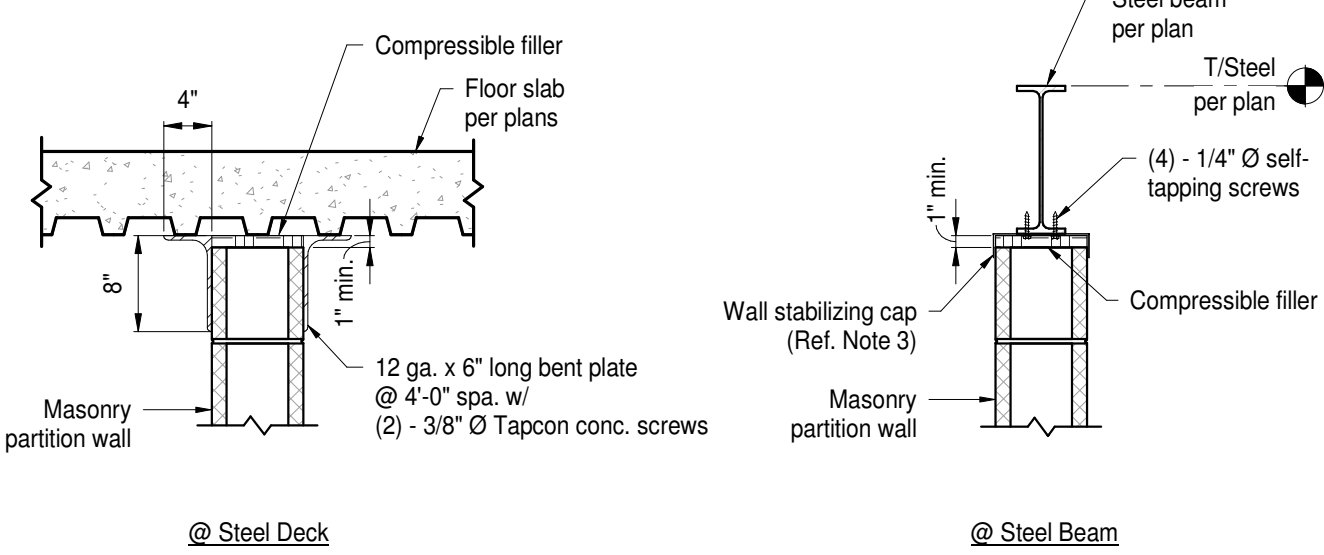
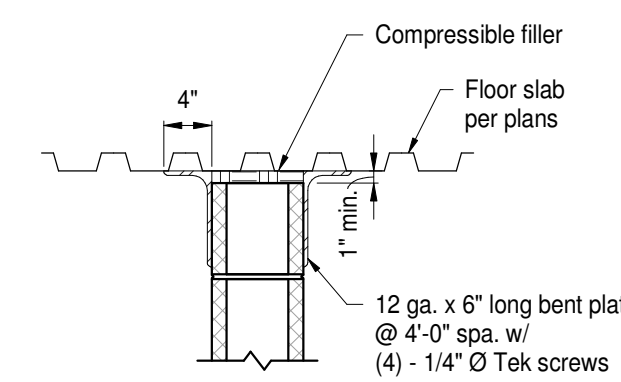
**6 CMU Lintel Bearing (@ C.J.)**  
Scale: N.T.S.



**10 Joint Pen. Through Non-Load Brg. CMU Wall**  
Scale: N.T.S.

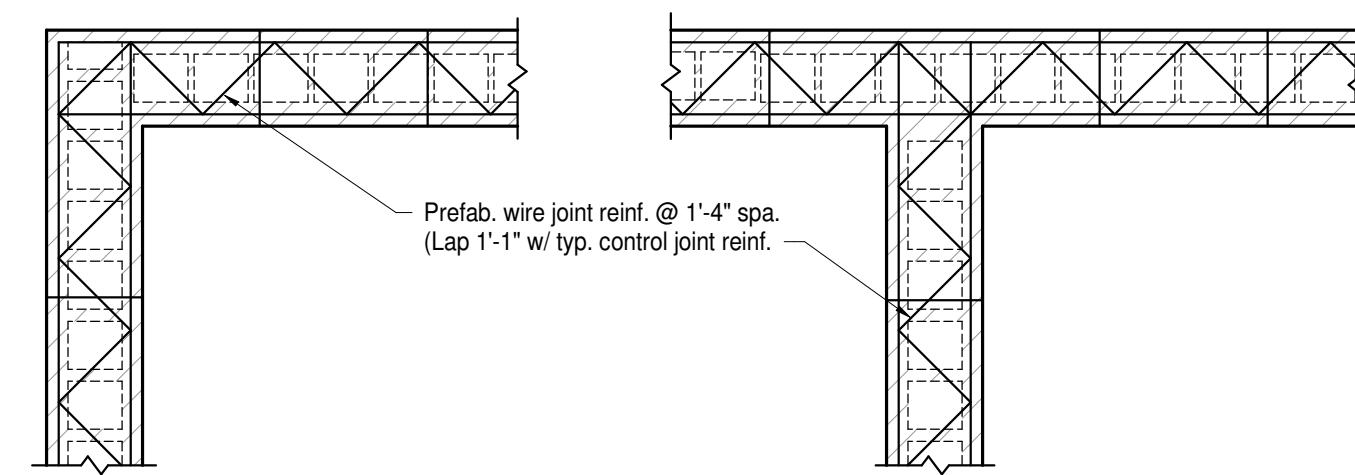


**2 Typ. CMU Wall Reinf.**  
Scale: N.T.S.

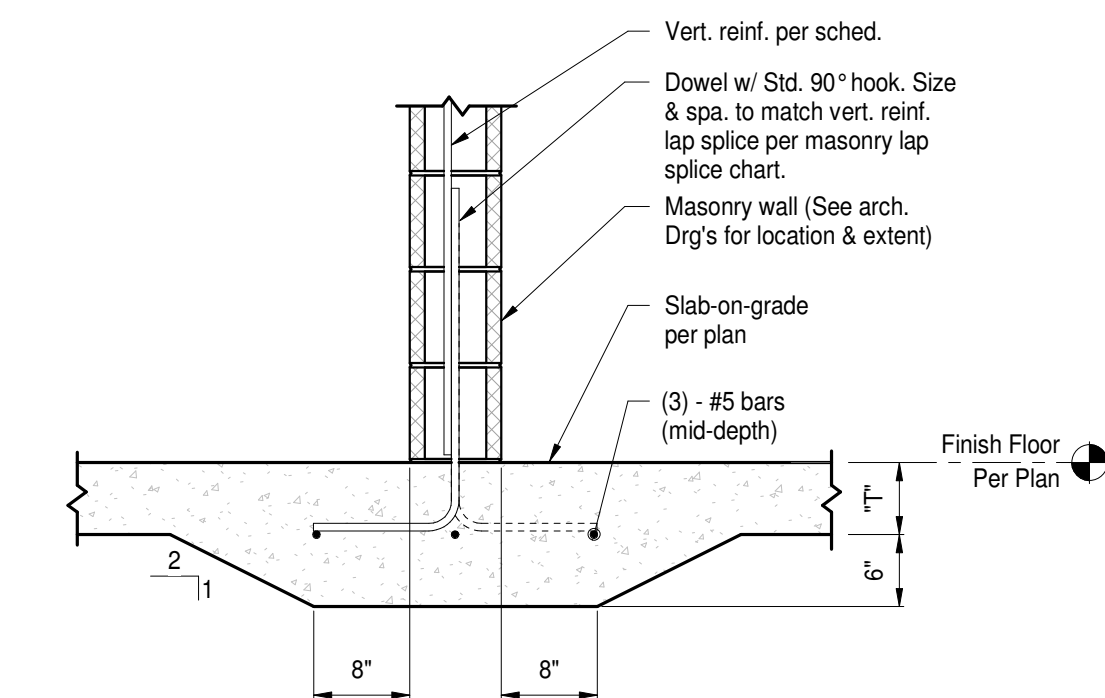


- Notes:**
- Provide bent plate clip angles on all int. non-load bearing masonry partition walls. Ref. Arch. drawings for location of all masonry partition walls.
  - Bent plate clips may be eliminated if all of the following conditions are met:
    - Length of wall between perp. intersecting walls is less than the following:
      - 15'-0" for 6" CMU
      - 20'-0" for 8" CMU
      - 22'-0" for 10" CMU
      - 25'-0" for 12" CMU
    - Wall and intersection have properly installed (8 ga.) truss type horiz. joint reinf. @ 1'-4" spa.
  - Wall stabilizing cap: Prefab. 12 ga. channel.
    - Heckman Building Products - 420 CAP
    - Hohmann and Barnard Inc. - PT422
    - Wirebond - 4310 Partition Top Anchor

**7 Typ. CMU Partition Wall**  
Scale: N.T.S.

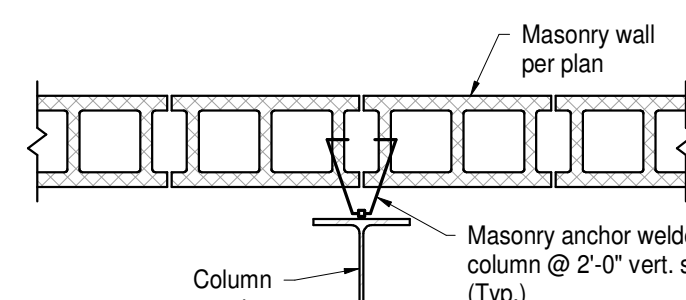


**3 Typ. CMU Wall Bond Beam Reinf.**  
Scale: N.T.S.

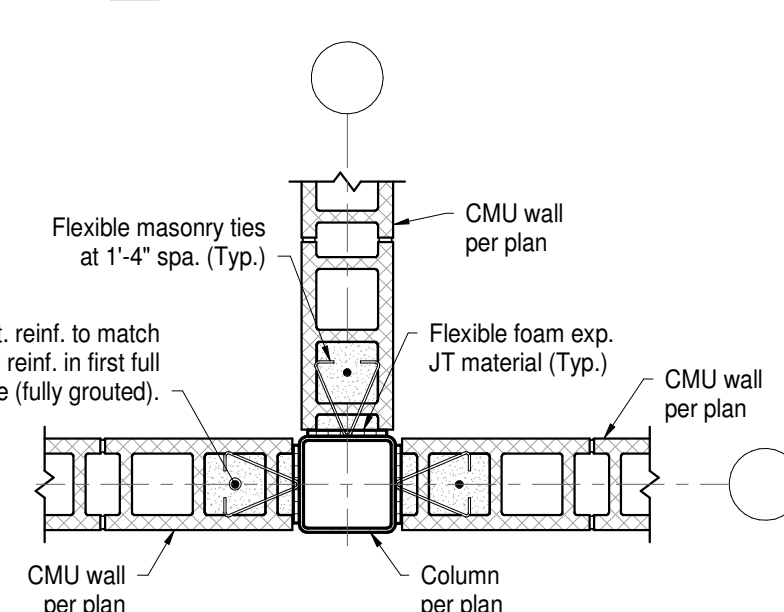


- Notes:**
- Provide thickened slab under masonry wall not supported by a fig.
  - "T" = concrete slab-on-grade thickness (ref. sched.).
  - At contractor's option: provide straight dowels instead of hooked dowels. Drill & epoxy 6" into slab conc. match vert. bar size & spacing.

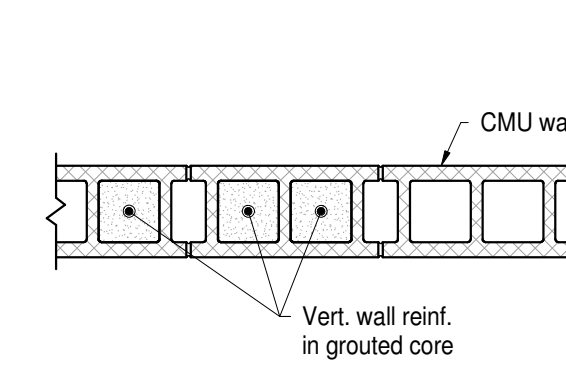
**8 Typ. Thickened Slab @ CMU Partition Wall**  
Scale: N.T.S.



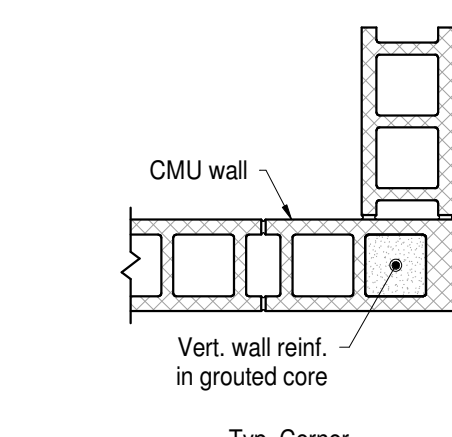
**11 Typ. CMU Tie**  
Scale: N.T.S.



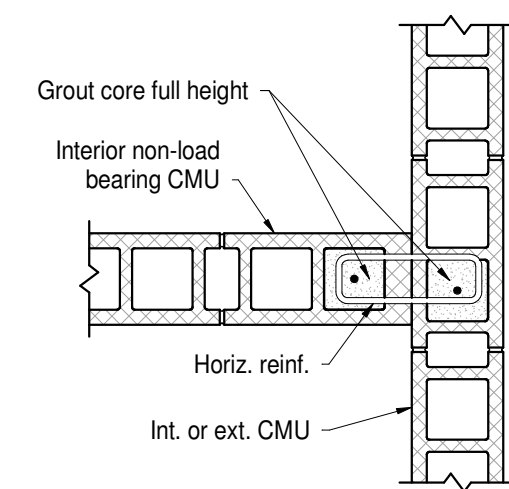
**12 Typ. Column Tie**  
Scale: N.T.S.



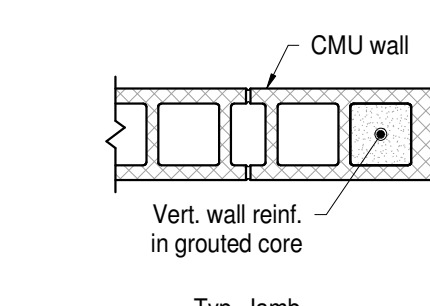
Typ. Beam Bearing



Typ. Corner



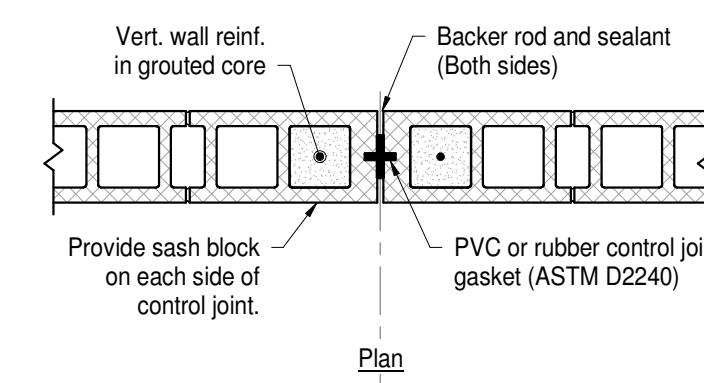
Typ. Intersection



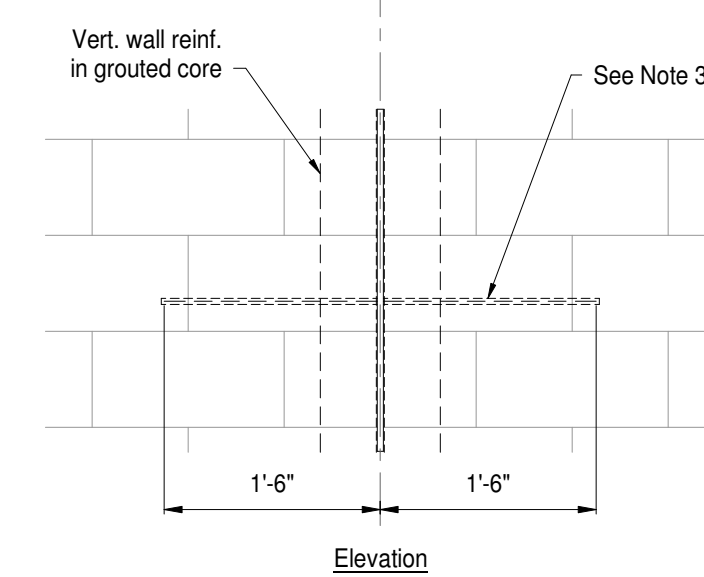
Typ. Jamb

- Notes:**
- Reinf. shown in addition to reinf. shown on plans and special details.
  - Reinf. to be same size as adjacent wall reinf. indicated on plans.
  - Typ. details apply to all ext. walls, int. load bearing walls & all walls scheduled to be reinforced.
  - See Typ. Steel Beam Brg. on Masonry detail for additional requirements.

**13 Typ. Vert. CMU Wall Reinf.**  
Scale: N.T.S.



Plan



Elevation

- Notes:**
- Bond beam reinf. shall not be applied within 8'-0" of control joint.
  - Horiz. joint reinf. shall be discontinuous at control joint.
  - Bond beam reinf. shall be continuous through control joints at floor and roof levels. Bond beam reinf. shall be interrupted at control joints at other locations (wrap with mastic to create bond break at control joint).

**14 Typ. CMU Wall Control Joint**  
Scale: N.T.S.

## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

# FANNING HOWEY

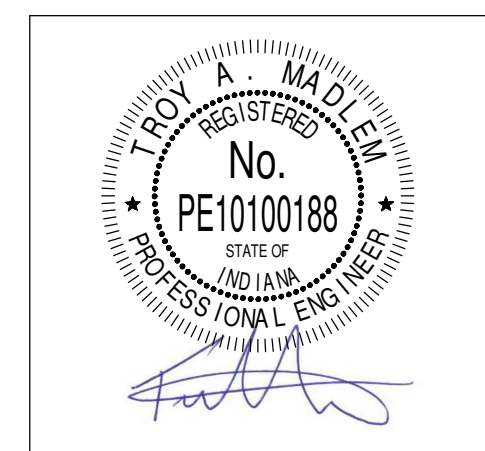
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Construction Documents

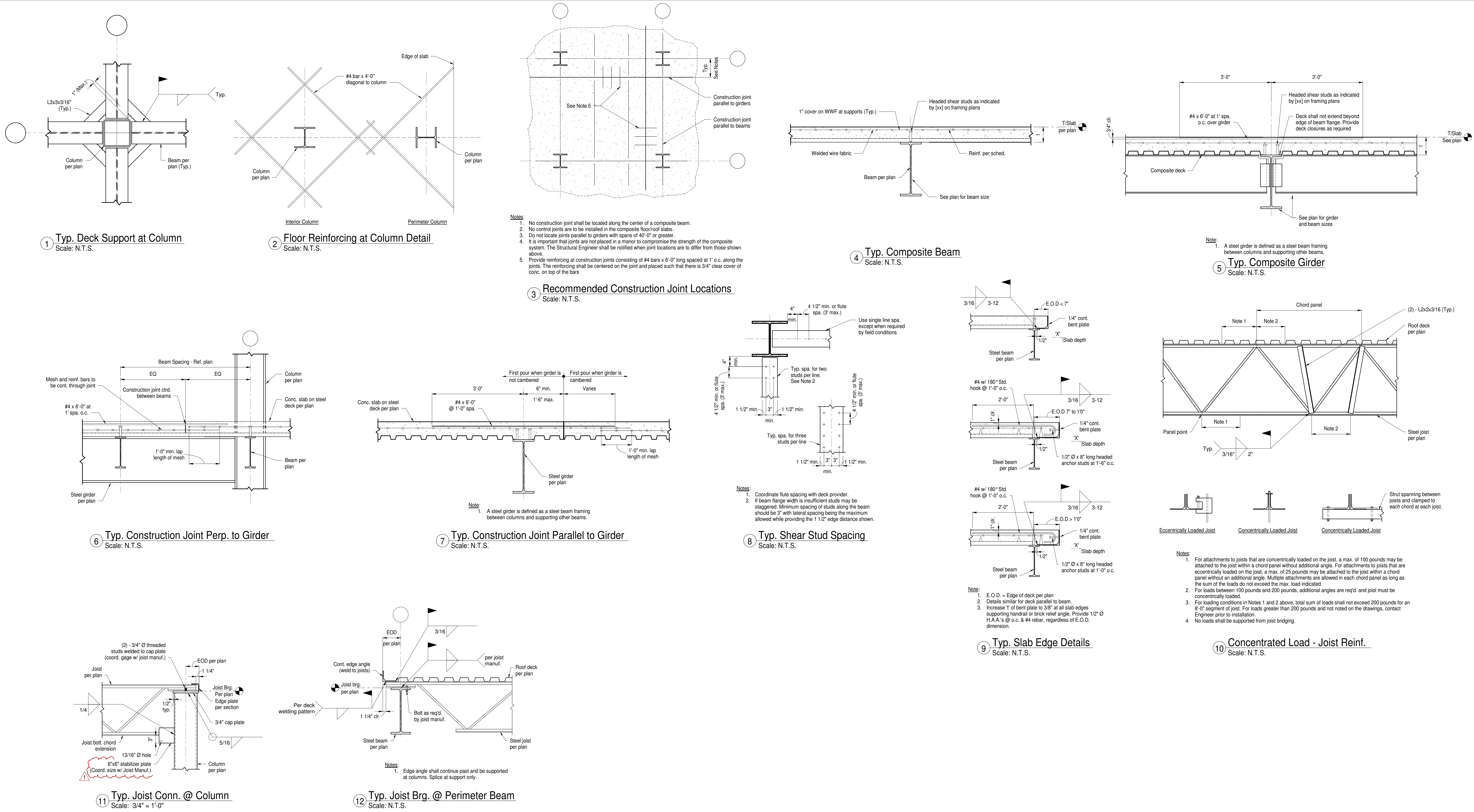


PROJECT MANAGER: JAA  
DRAWN BY: TCM  
PROJECT NUMBER: 22130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

Typ. Masonry Details

# S-510



PENN HIGH SCHOOL FIELDHOUSE

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PENN-HARRIS-MADISON SCHOOL CORPORATION

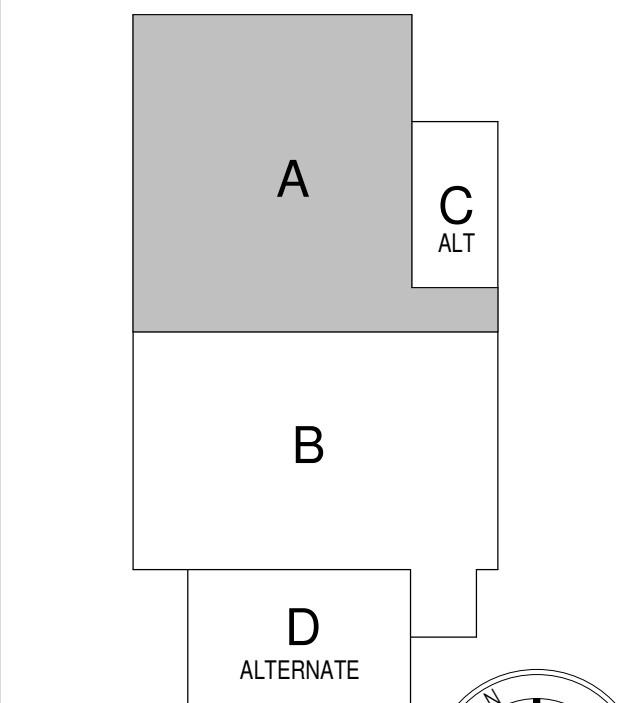


ARCHITECT

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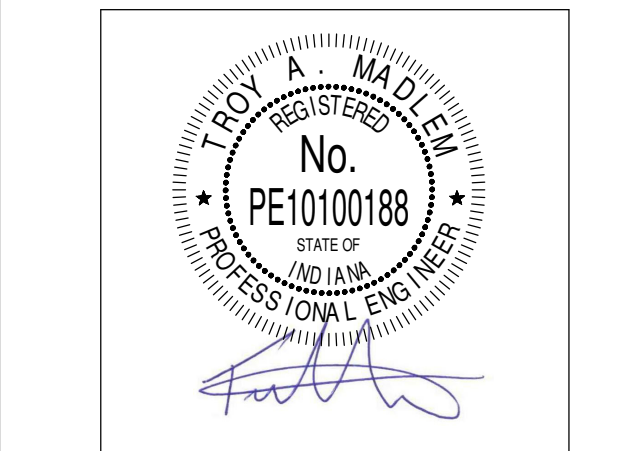
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KEY PLAN

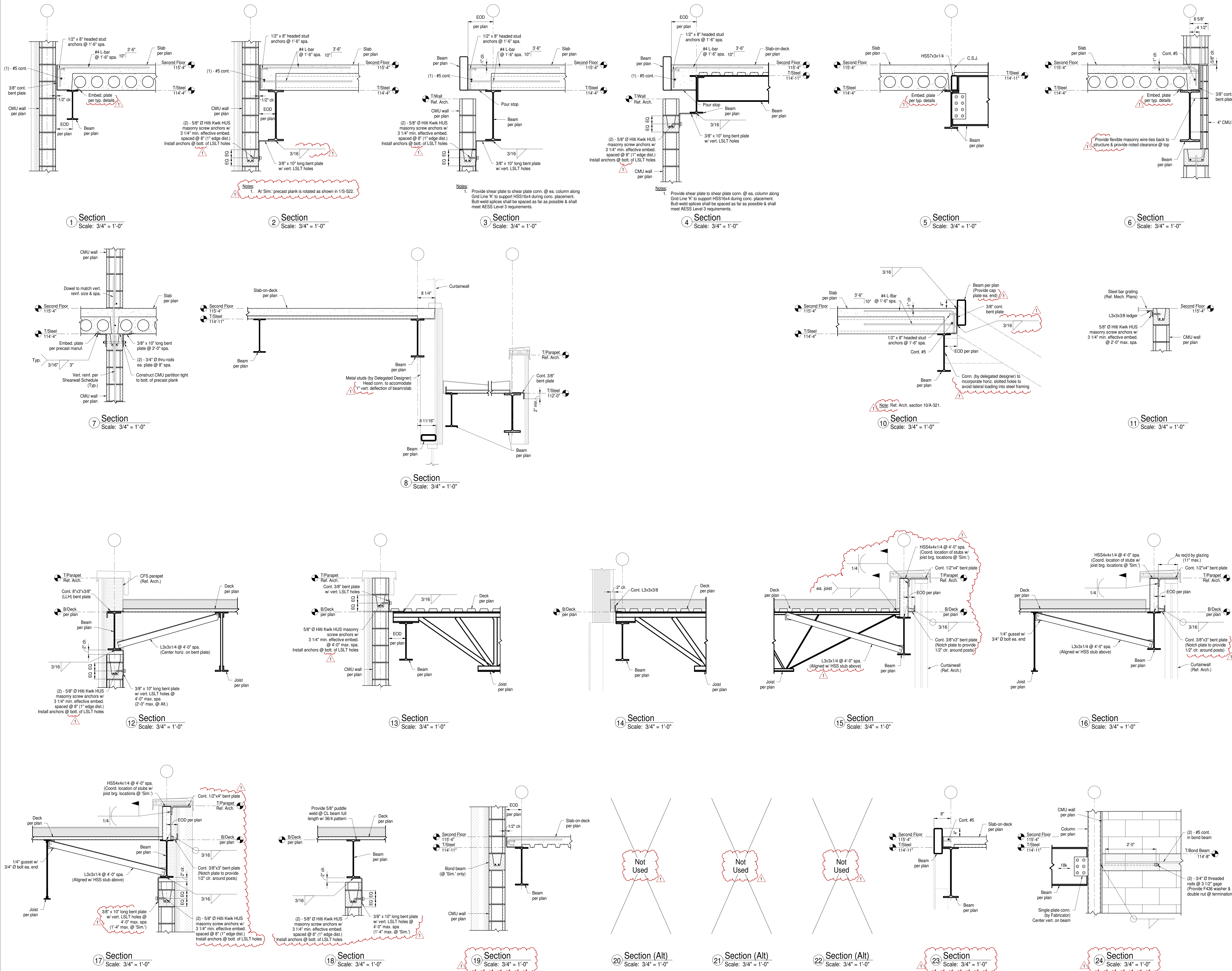
Construction Documents



PROJECT MANAGER: JAA  
DRAWN BY: TCM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

\\Magnus\Projects\Fanning-Howey\PHM School Corporation\Penn High School Field House\2023\_PHS Field House\_Steel\_RVT23\_Central.rvt  
1/26/2024 12:56:39 PM



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# PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

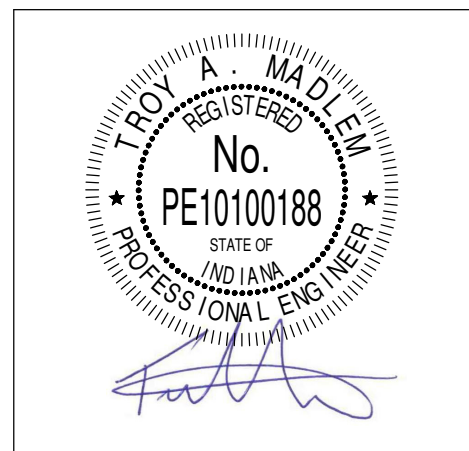
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Construction Documents

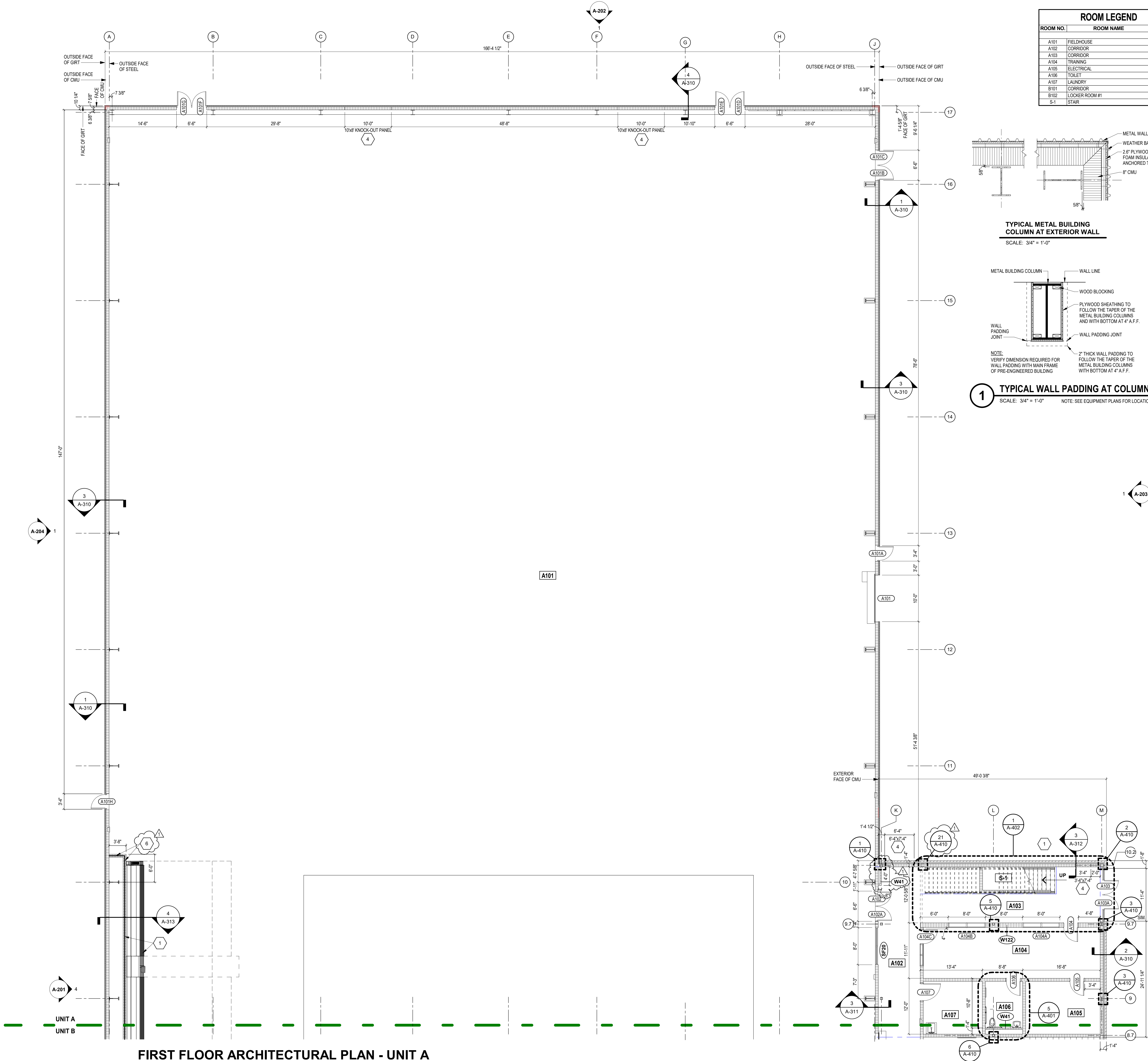


PROJECT MANAGER: JAA  
DRAWN BY: TCM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01/26/2024

Steel Framing Details

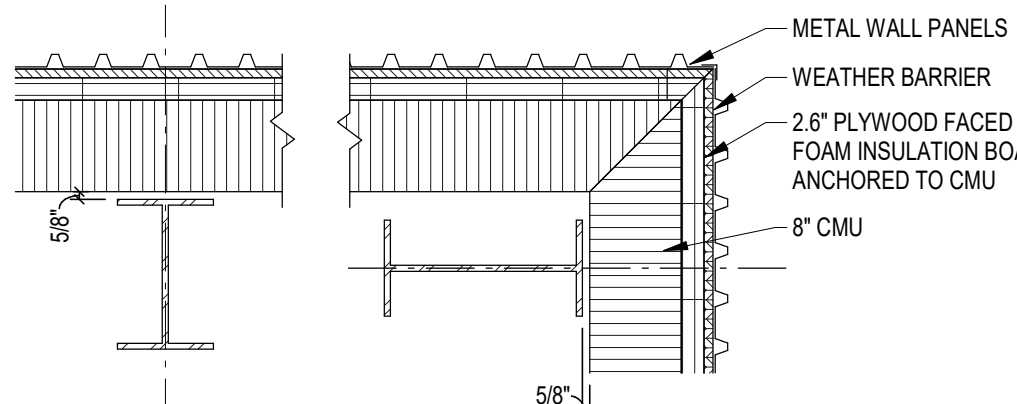
# S-522



FIRST FLOOR ARCHITECTURAL PLAN - UNIT A

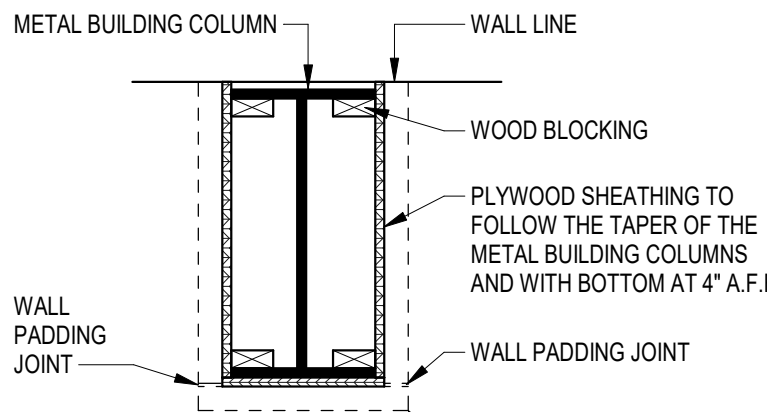
SCALE: 1/8" = 1'-0"

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	296 SF
A104	TRAINING	416 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1,183 SF
B102	LOCKER ROOM #1	399 SF
S-1	STAIR	81 SF



TYPICAL METAL BUILDING COLUMN AT EXTERIOR WALL

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



TYPICAL WALL PADDING AT COLUMNS

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

NOTE: SEE EQUIPMENT PLANS FOR LOCATIONS

ARCHITECTURAL PLAN GENERAL NOTES

- ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
- WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
- THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
- ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
- FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-302.
- ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
- HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
- REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
- PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
- REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
- PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

W### INDICATES WALL TYPE. REFER TO DRAWING A301 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

NOTE: ALL INTERIOR WALLS ARE TO BE TYPE B2 (W82) UNLESS INDICATED OTHERWISE.

- CMU WALL AND TELESCOPING BLEACHERS (ALTERNATE)
- 2'-0" x 4'-0" ACCESS PANEL (ALTERNATE)
- RECESS BRICK T - SEE ELEVATIONS
- KNOCK-OUT PANEL: PROVIDE BACKER ROD / SEALANT JOINTS AT JAMBS SIMILAR TO 2-4502
- ROOF HATCH AND LADDER - SEE 1-AR101
- PROVIDE ALUMINUM GUARDRAIL AT THE TOP OF THE MASONRY CHASE - SEE 4/A-313 ALTERNATE
- 8'-8" HIGH WALL

PENN HIGH SCHOOL FIELDHOUSE

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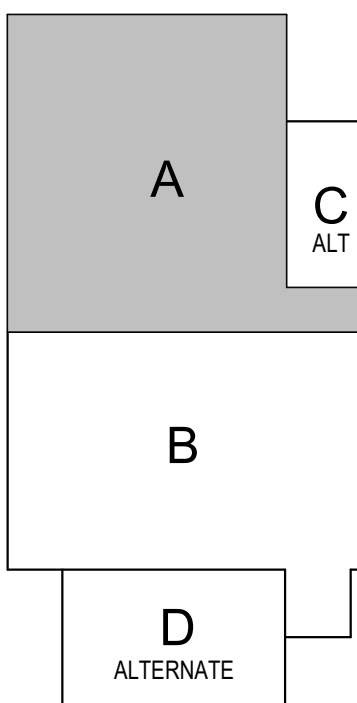
ARCHITECT

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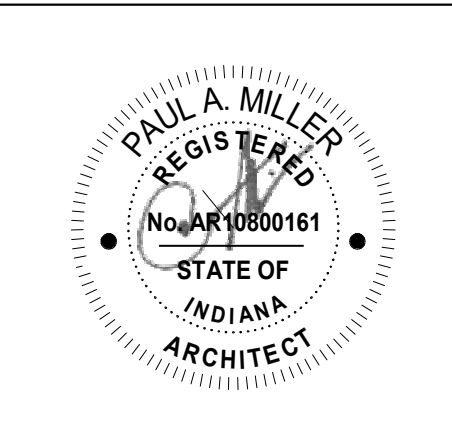
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: Author

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

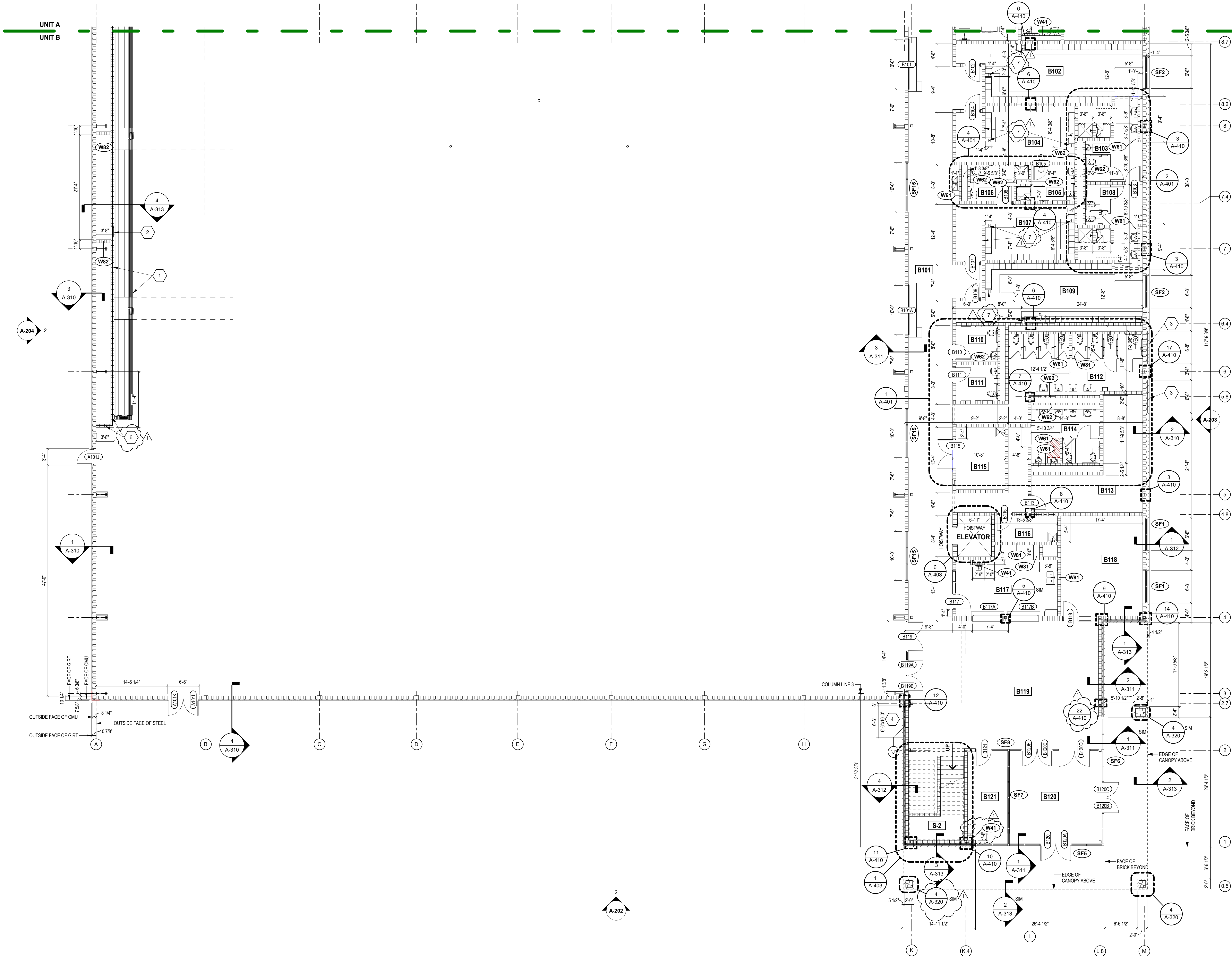
FIRST FLOOR ARCHITECTURE PLAN - UNIT A

A-11A

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



FIRST FLOOR ARCHITECTURAL PLAN - UNIT B

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

ARCHITECTURAL PLAN GENERAL NOTES

- ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
- WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
- THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
- ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
- FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-302.
- ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GIBB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
- EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
- HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
- SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
- REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
- PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
- REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
- PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- INDICATES WALL TYPE. REFER TO DRAWING A301 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

NOTE: ALL INTERIOR WALLS ARE TO BE TYPE 62 (W62) UNLESS INDICATED OTHERWISE.

- CMU WALL AND TELESCOPING BLEACHERS (ALTERNATE) 2'-0" x 4'-0" ACCESS PANEL (ALTERNATE)
- RECESS BRICK 1" - SEE ELEVATIONS
- KNOCK-OUT PANEL. PROVIDE BACKER ROD / SEALANT JOINTS AT JAMBS SIMILAR TO 2-A502
- ROOF HATCH AND LADDER - SEE 1-A101
- PROVIDE ALUMINUM GUARDRAIL AT THE TOP OF THE MASONRY CHASE - SEE 4/A-313 ALTERNATE
- 6'-8" HIGH WALL

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
B101	CORRIDOR	1,163 SF
B102	LOCKER ROOM #1	389 SF
B103	SHOWER	184 SF
B104	DRESSING ROOM #1	261 SF
B105	TOLLET	74 SF
B106	TOLLET	75 SF
B107	DRESSING ROOM #2	270 SF
B108	SHOWER	184 SF
B109	LOCKER ROOM #2	401 SF
B110	TOLLET	63 SF
B111	TOLLET	63 SF
B112	GIRLS RESTROOM	388 SF
B113	FIRE RISER	304 SF
B114	BOYS RESTROOM	270 SF
B115	STORAGE	127 SF
B116	CUSTODIAN	68 SF
B117	CONCESSION	263 SF
B118	OFFICE	341 SF
B119	LOBBY	1,039 SF
B120	VESTIBULE	369 SF
B121	SRO OFFICE	157 SF
S-2	STAIR	115 SF

PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION

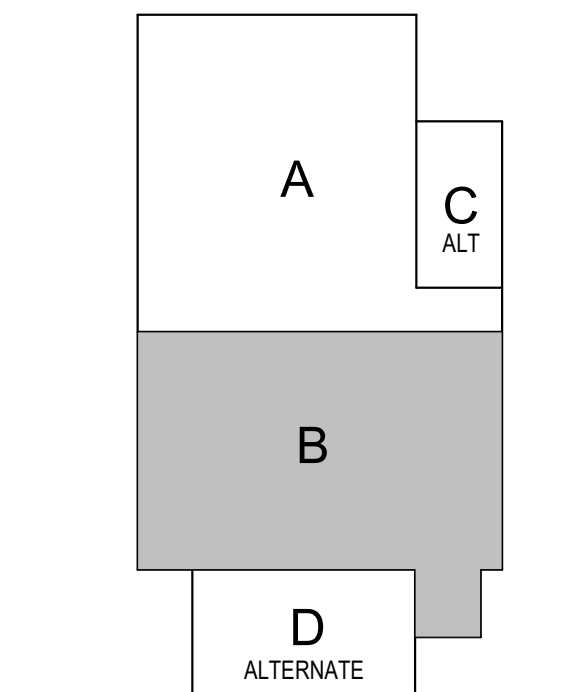


ARCHITECT

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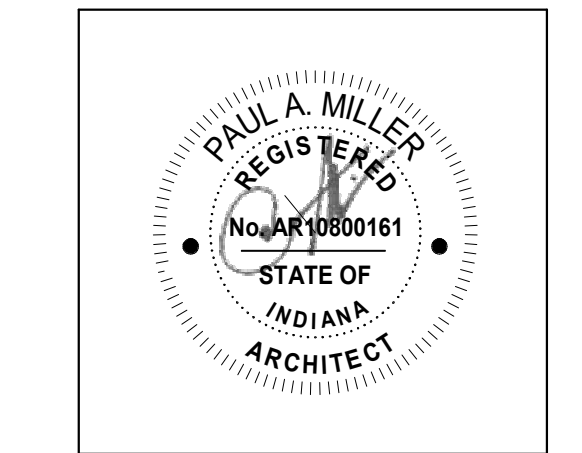
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KEY PLAN

Construction Documents



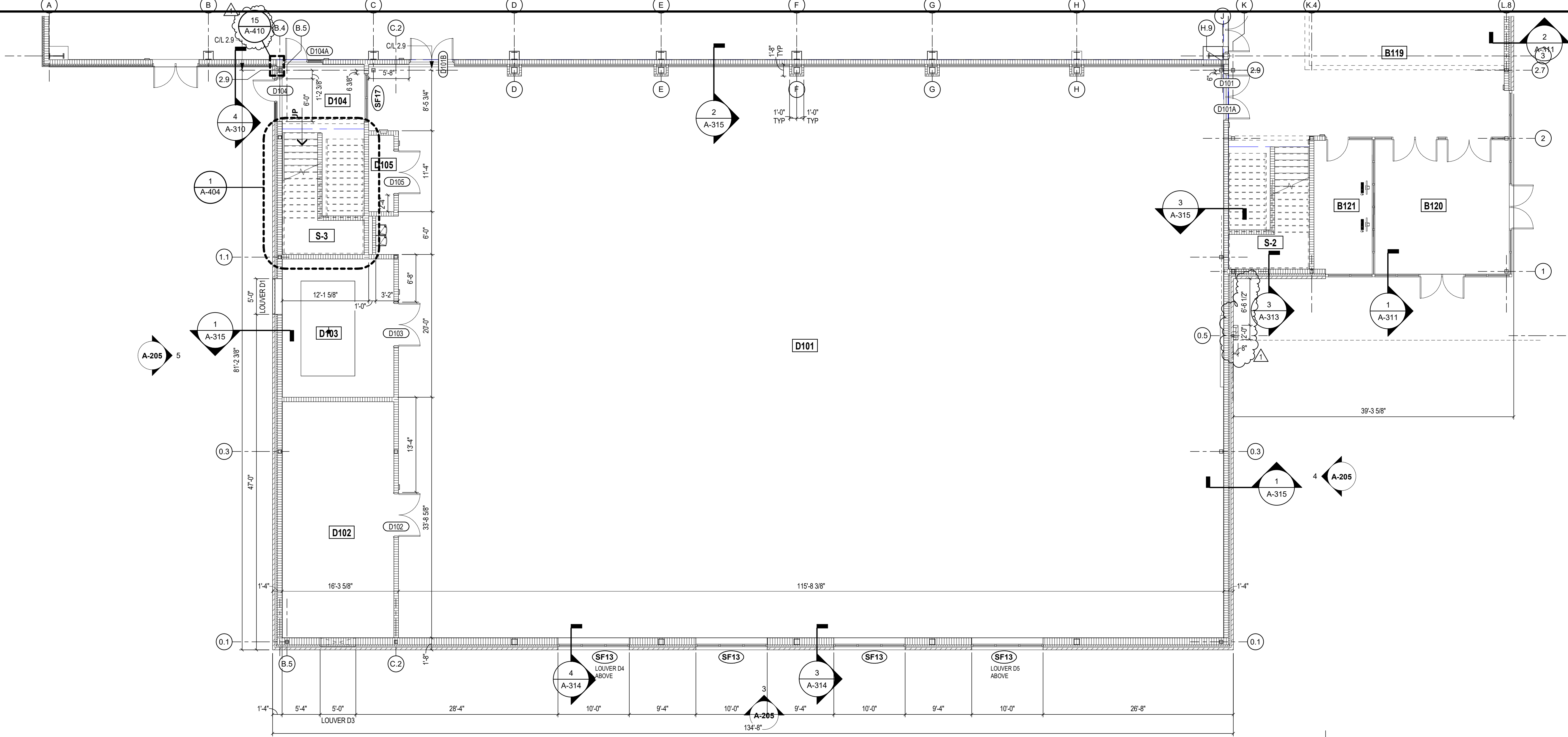
PROJECT MANAGER: MKS  
DRAWN BY: KT  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

FIRST FLOOR ARCHITECTURE PLAN - UNIT B

A-11B

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ROOM LEGEND UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C101	STORAGE	4,561 SF

ROOM LEGEND UNIT D		
ROOM NO.	ROOM NAME	AREA (SF)
D101	WRESTLING	9,337 SF
D102	STORAGE	218 SF
D103	MECHANICAL	303 SF
D104	VESTIBULE	104 SF
D105	SOUND CLOSET	38 SF
D201	OBSERVATION	1,998 SF
D202	DANCE	7,466 SF
D203	STORAGE	289 SF
D204	MECHANICAL	314 SF
D205	KITCHENETTE	207 SF
D206	SOUND CLOSET	16 SF

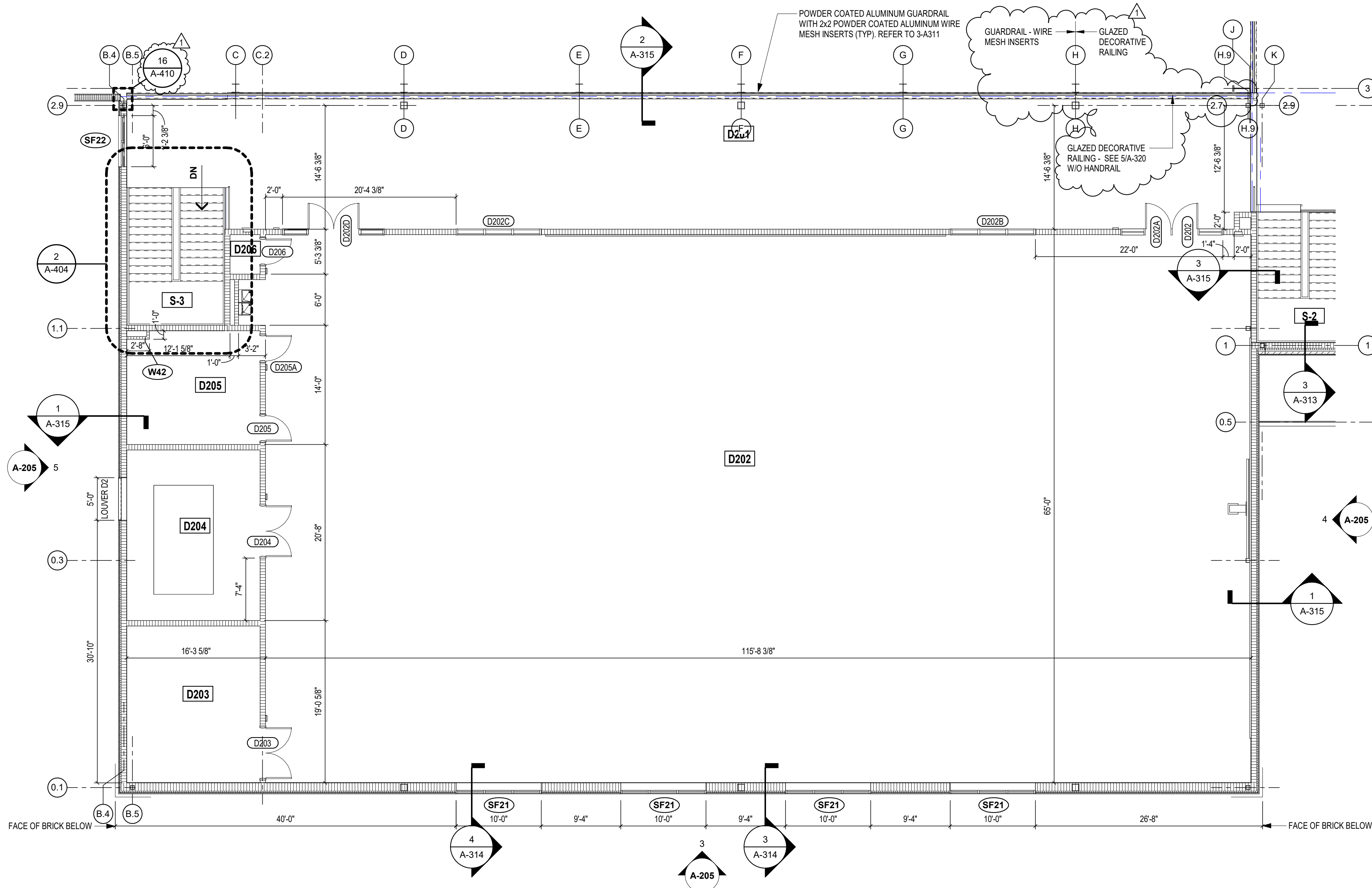
- ARCHITECTURAL PLAN GENERAL NOTES**
- ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
  - WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
  - THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
  - ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
  - FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-402.
  - ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
  - HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL, UNLESS NOTED OTHERWISE.
  - ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
  - SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
  - REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
  - PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
  - REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
  - PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

- ARCHITECTURAL PLAN NOTES**
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- INDICATES WALL TYPE. REFER TO DRAWING A301 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.
- NOTE: ALL INTERIOR WALLS ARE TO BE TYPE 62 (W82) UNLESS INDICATED OTHERWISE.
- CMU WALL AND TELESOPING BLEACHERS (ALTERNATE)
  - 2'-0" x 4'-0" ACCESS PANEL (ALTERNATE)
  - RECESS BRICK 1" - SEE ELEVATIONS
  - KNOCK-OUT PANEL. PROVIDE BACKER ROD / SEALANT JOINTS AT JAMBS SIMILAR TO 2-4502
  - ROOF HATCH AND LADDER - SEE 1-AR101
  - PROVIDE ALUMINUM GUARDRAIL AT THE TOP OF THE MASONRY CHASE - SEE 4/A-313 ALTERNATE
  - 6'-8" HIGH WALL

ROOM LEGEND UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C101	STORAGE	4,561 SF

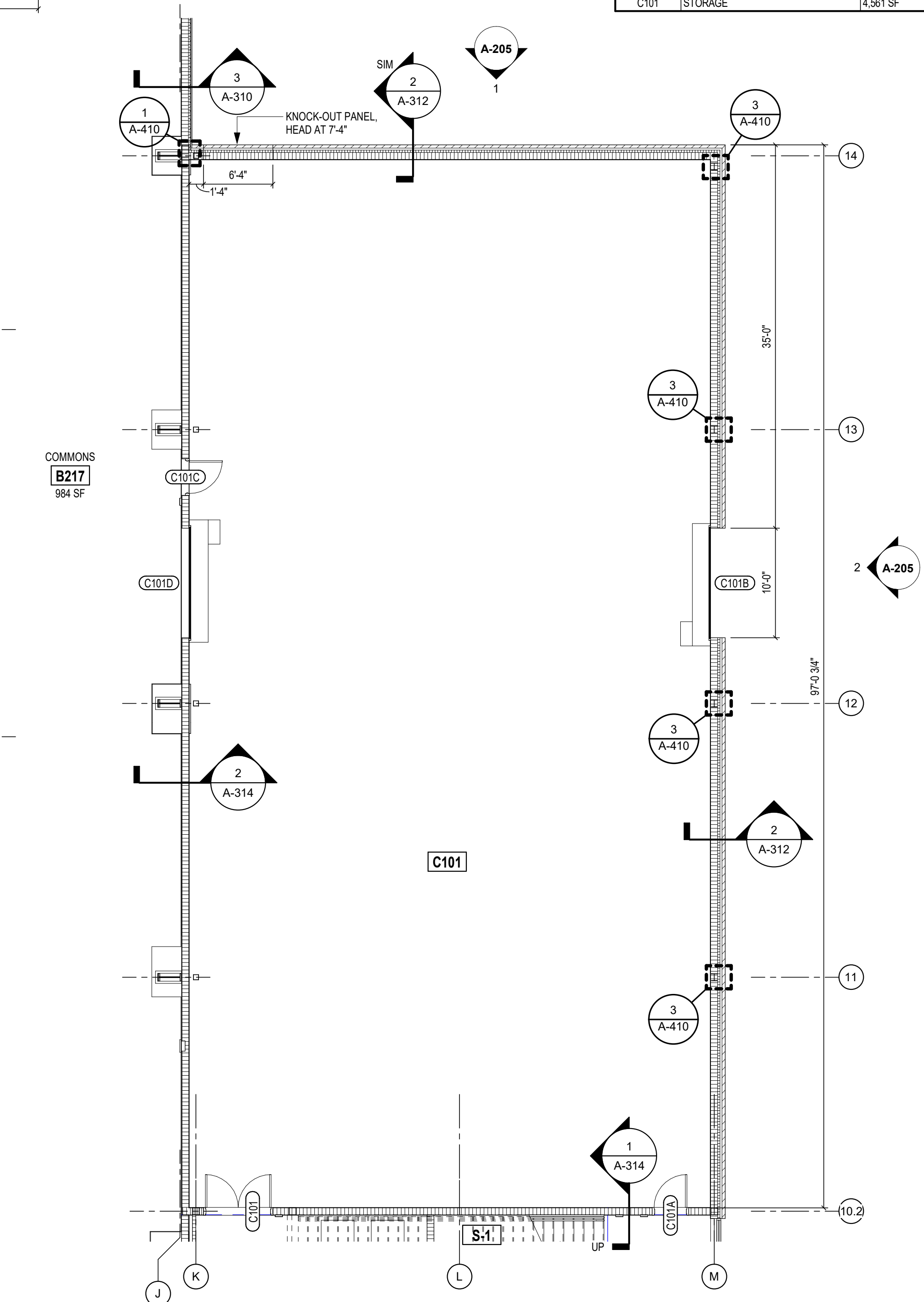
## FIRST FLOOR ARCHITECTURAL PLAN ALTERNATES - UNIT D

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



## SECOND FLOOR ARCHITECTURAL PLAN ALTERNATES - UNIT D

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



## FIRST FLOOR ARCHITECTURAL PLAN ALTERNATES - UNIT C

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

**VERIFICATION NOTE**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

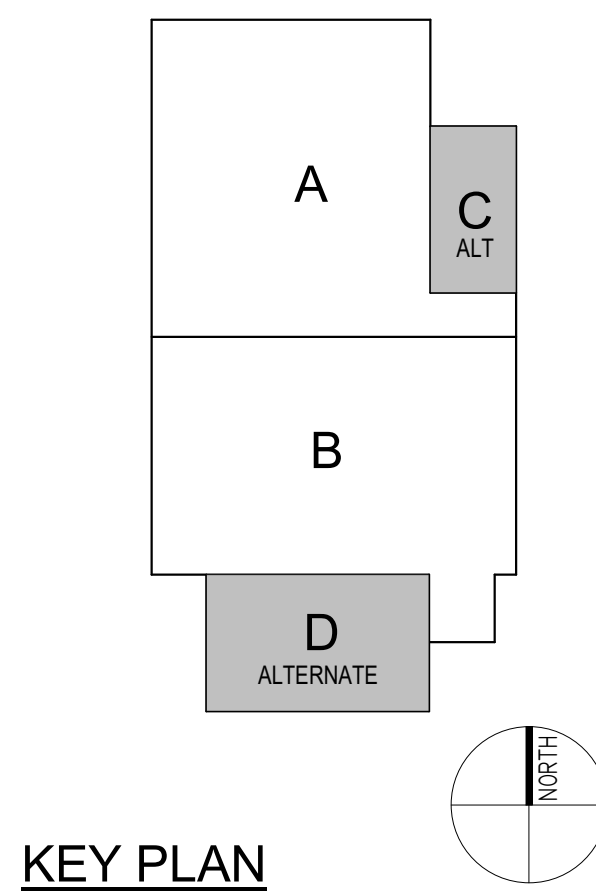
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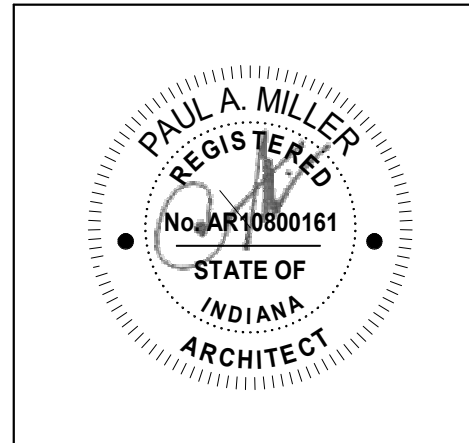
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## KEY PLAN

Construction Documents



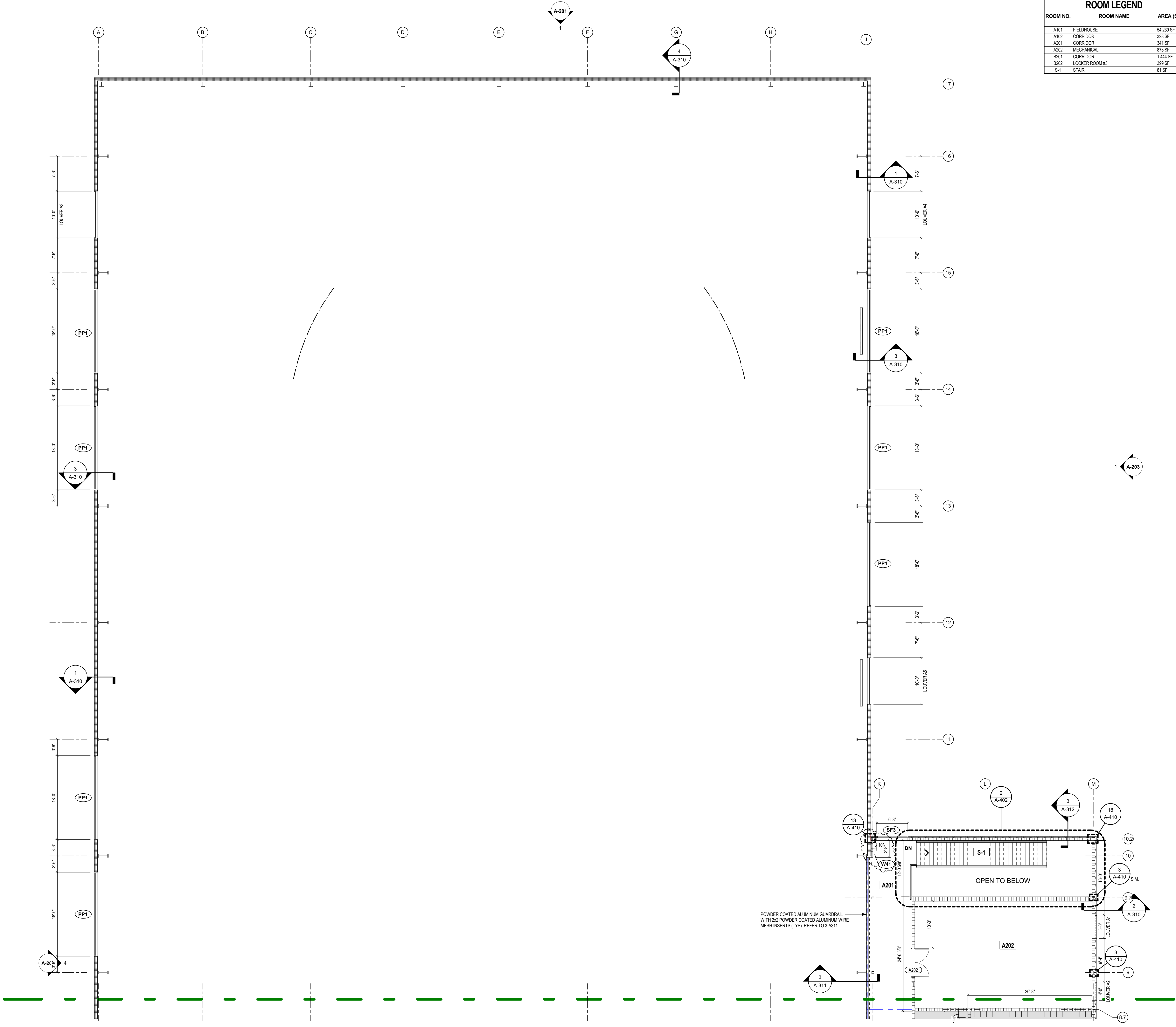
PROJECT MANAGER: MKS  
DRAWN BY: Author  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

ARCHITECTURE PLAN - ALTERNATES

**A-11C**

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SECOND FLOOR ARCHITECTURAL PLAN - UNIT A

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
B201	CORRIDOR	1,444 SF
B202	LOCKER ROOM #3	398 SF
S-1	STAIR	81 SF

- ARCHITECTURAL PLAN GENERAL NOTES**
- A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
- B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
- C. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
- D. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
- E. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-302.
- F. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GIBB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE. EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
- G. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- H. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
- I. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
- J. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FLOOR MATERIALS.
- K. PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
- L. REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
- M. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

- ARCHITECTURAL PLAN NOTES**
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- INDICATES WALL TYPE. REFER TO DRAWING A301 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.
- NOTE: ALL INTERIOR WALLS ARE TO BE TYPE B2 (W82) UNLESS INDICATED OTHERWISE.
1. CMU WALL AND TELESCOPING BLEACHERS (ALTERNATE) 2'-0" x 4'-0" ACCESS PANEL (ALTERNATE)
2. RECESS BRICK T - SEE ELEVATIONS
3. KNOCK-OUT PANEL. PROVIDE BACKER ROD / SEALANT JOINTS AT JAMBS SIMILAR TO 2-4502
4. ROOF HATCH AND LADDER - SEE 1-AR101
5. PROVIDE ALUMINUM GUARDRAIL AT THE TOP OF THE MASONRY CHASE - SEE 4/A-313 ALTERNATE
6. 6'-0" HIGH WALL

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

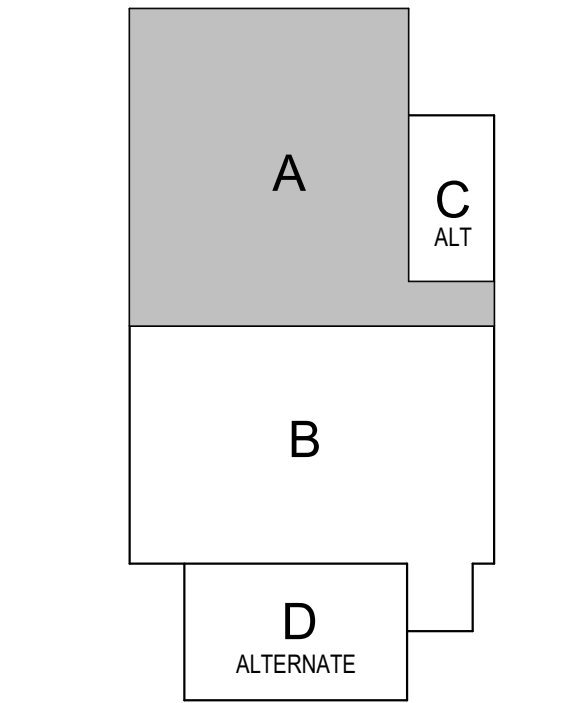
## PENN-HARRIS-MADISON SCHOOL CORPORATION



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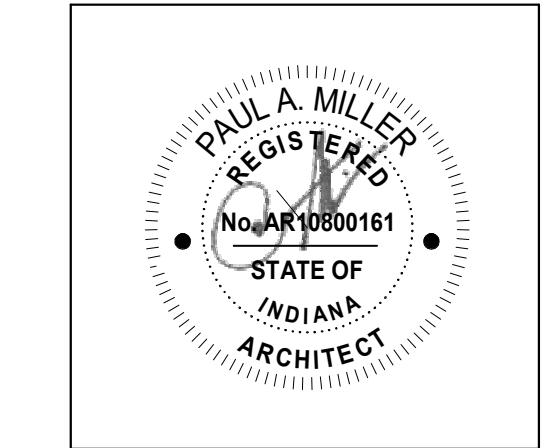
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



### KEY PLAN

#### Construction Documents



PROJECT MANAGER: MKS

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

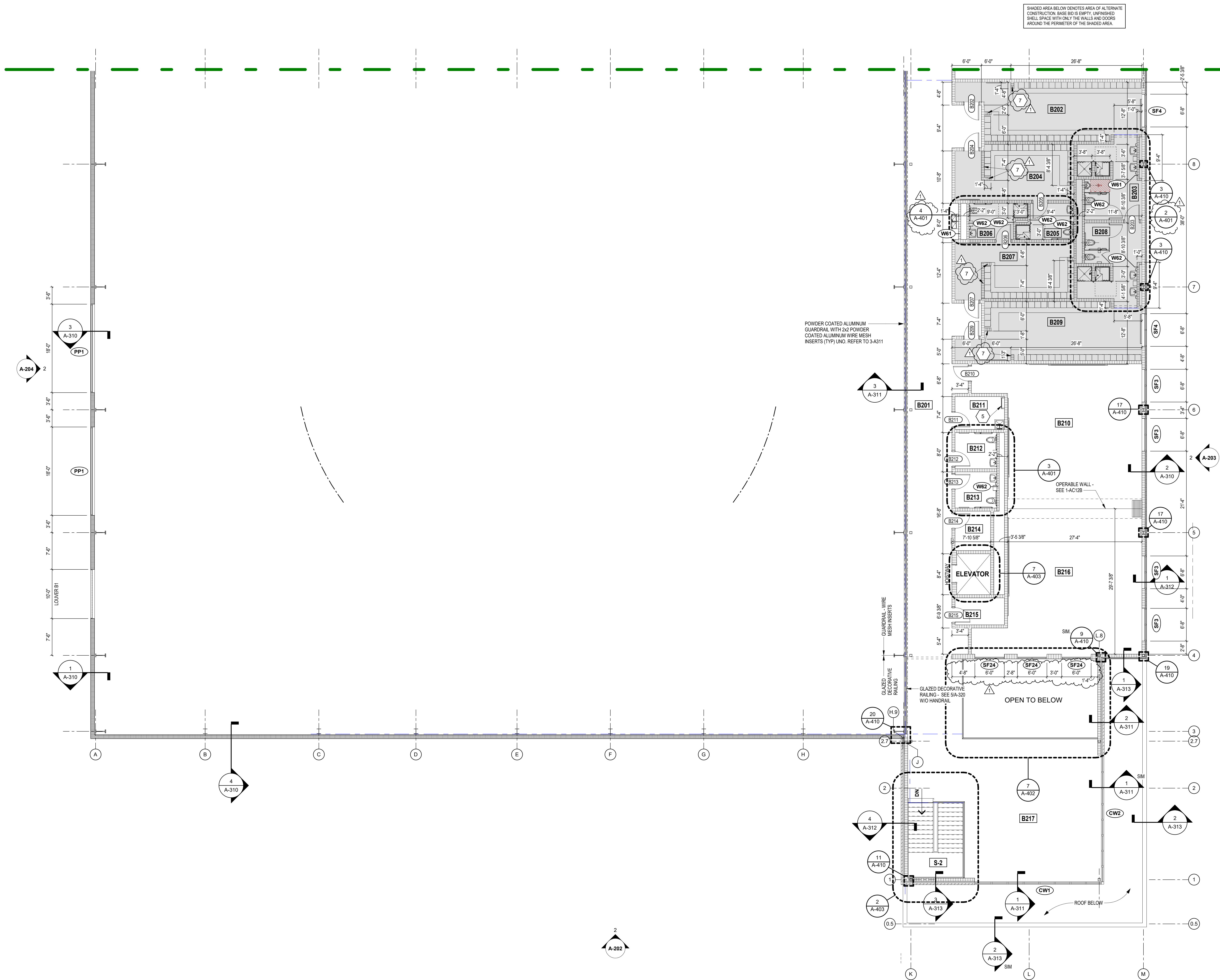
REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

## SECOND FLOOR ARCHITECTURE PLAN - UNIT A

# A-12A

**VERIFICATION NOTE**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.  
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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SECOND FLOOR ARCHITECTURAL PLAN - UNIT B

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

ARCHITECTURAL PLAN GENERAL NOTES

- ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
- WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
- THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
- ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH FIRE STOPPING AT RATED WALLS PER PROJECT MANUAL, AND MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
- FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-302.
- ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GIBB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
- EXCEPTION: EXTERIOR METAL STUD WALLS ARE TO FACE OF METAL STUDS.
- HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
- ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
- SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
- REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
- PROVIDE WOOD BLOCKING AS REQUIRED, WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
- REFER TO MASTERCODE PLANS FOR CODE INFORMATION AND FIRE RATED WALL LOCATIONS.
- PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- INDICATES WALL TYPE. REFER TO DRAWING A301 FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

NOTE: ALL INTERIOR WALLS ARE TO BE TYPE 82 (W82) UNLESS INDICATED OTHERWISE.

- CMU WALL AND TELESCOPING BLEACHERS (ALTERNATE) 2'-0" x 4'-0" ACCESS PANEL (ALTERNATE)
- RECESS BRICK 1" - SEE ELEVATIONS
- KNOCK-OUT PANEL. PROVIDE BACKER ROD / SEALANT JOINTS AT JAMBS SIMILAR TO A-502
- ROOF HATCH AND LADDER - SEE 1-AR101
- PROVIDE ALUMINUM GUARDRAIL AT THE TOP OF THE MASONRY CHASE - SEE 4/A-313 ALTERNATE
- 8'-0" HIGH WALL

ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
B201	CORRIDOR	1,444 SF
B202	LOCKER ROOM #3	399 SF
B203	SHOWER	184 SF
B204	DRESSING ROOM #3	261 SF
B205	TOILET	74 SF
B206	TOILET	75 SF
B207	DRESSING ROOM #4	270 SF
B208	SHOWER	184 SF
B209	LOCKER ROOM #4	402 SF
B210	CLASSROOM	842 SF
B211	CUSTODIAN	67 SF
B212	TOILET	63 SF
B213	TOILET	63 SF
B214	ELECTRICAL TECHNOLOGY	56 SF
B215	ELEVATOR EQUIPMENT	55 SF
B216	CLASSROOM	840 SF
B217	COMMONS	984 SF
S-2	STAIR	175 SF

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



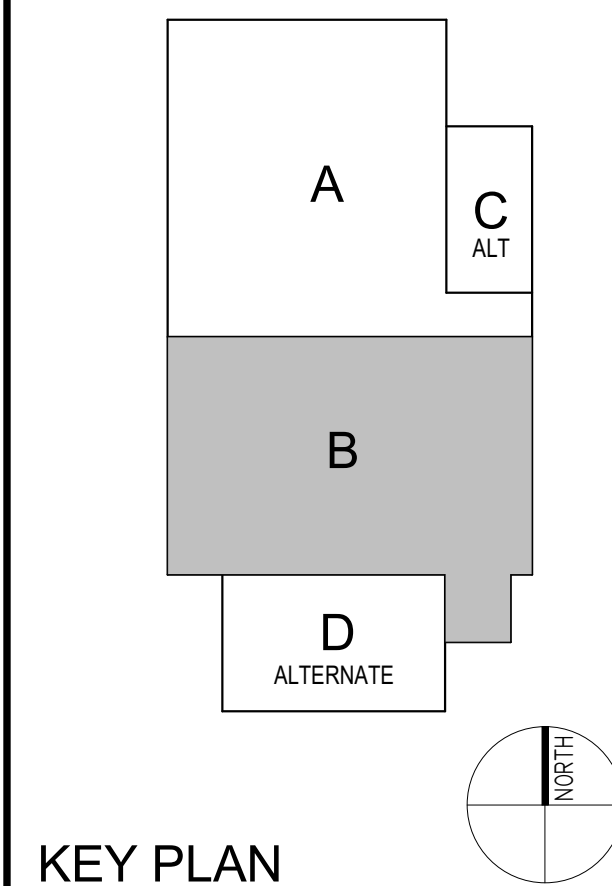
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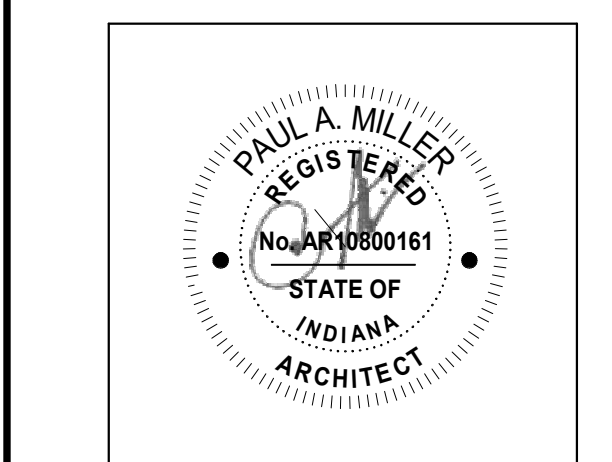
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

SECOND FLOOR ARCHITECTURE PLAN - UNIT B

A-12B

**PENN HIGH  
SCHOOL  
FIELDHOUSE**

12641 McKinley Highway, Mishawaka,  
Indiana 46545

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**



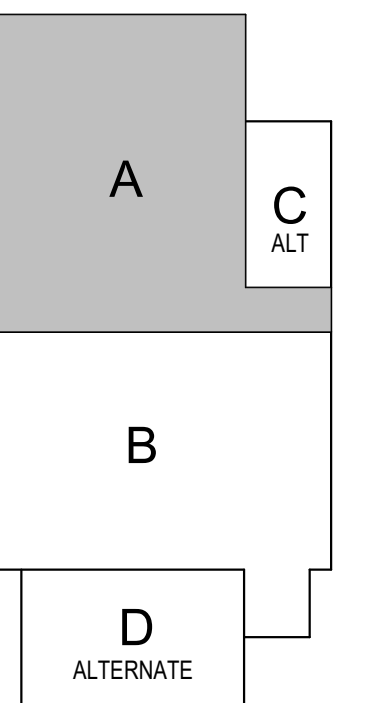
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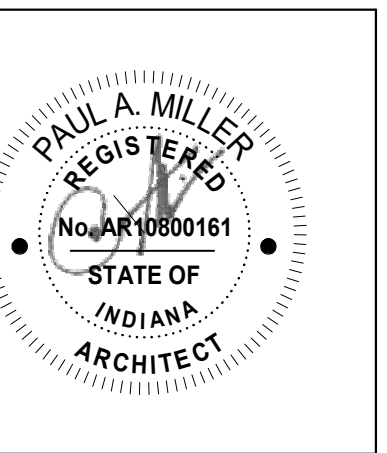
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50 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



## KEY PLAN

## Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: Author

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

[illegible]

**FIRST FLOOR REFLECTED CEILING  
PLAN - UNIT A**

# AC11A

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	296 SF
A104	TRAINING	416 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1,163 SF
B102	LOCKER ROOM #1	399 SF
S-1	STAIR	81 SF

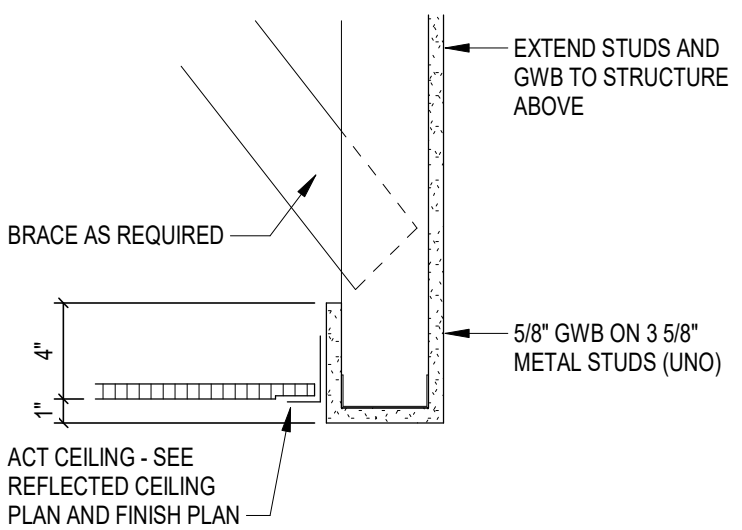
## REFLECTED CEILING PLAN NOTES

- A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL ??-A9.1.
- B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

## REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 1-A-C11A
2. INTERIOR FINISH SYSTEM (IFFS) CEILING - SEE 1-A-C11B
3. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 2-A-C11A
4. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 3-A-C11B
5. GWB BULKHEAD AT 9'-8" A.F.F. AND GUARDRAIL - SEE 11-A-321
6. GWB BULKHEAD AT 9'-11" A.F.F. - SEE 1-A-C11A
7. GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-A-C12A
8. GWB BULKHEAD AT 9'-4" A.F.F. AND OPERABLE WALL (ALTERNATE) - SEE 1-A-C12B
9. GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-A-C12B
10. GWB BULKHEAD AT 10'-0" 3/8" A.F.F. - SEE SECTION 3-A404.
11. GWB CEILING AT UNDERSIDE OF STAIR - SEE 5-A404
12. PROVIDE 4" PERIMETER TRIM AROUND CLOUDS



# 1 BULKHEAD

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

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

### REFLECTED CEILING PLAN LEGEND

- |  |  |
|--|--|
|  | INDICATES ELEVATION HEIGHT   |
|  | INDICATES CEILING HEIGHT   |
|  | INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE" |
|  | LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS   |
|  | LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS   |
|  | LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS   |
|  | CLOCK - REFER TO TECHNOLOGY DRAWINGS   |
|  | MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS                                   |
|  | MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS                          |
|  | CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS                       |
|  | MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS                                |
|  | RECESSED CEILING SPEAKER   |
|  | MOTION DETECTOR  |
|  | CEILING MOUNTED EXIT LIGHT   |
|  | CEILING MOUNTED CAMERA   |
|  | WIRELESS ACCESS POINT (WAP)  |
|  | CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD                                    |
|  | SOUND REINFORCEMENT SPEAKER  |
|  | FIRE ALARM HEAT DETECTOR   |
|  | FIRE ALARM HORN STROBE   |
|  | FIRE ALARM STROBE  |
|  | FIRE ALARM SPEAKER   |
|  | FIRE ALARM SMOKE DETECTOR  |
|  | OCCUPANCY SENSOR   |
|  | ACOUSTICAL CEILING TILE (ACT)  |
|  | ACOUSTICAL CEILING TILE (ACT)  |
|  | GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.)                 |
|  | EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)   |
|  | INTERIOR FINISH SYSTEM (I.F.S.)  |
|  | METAL SOFFIT PANELS  |

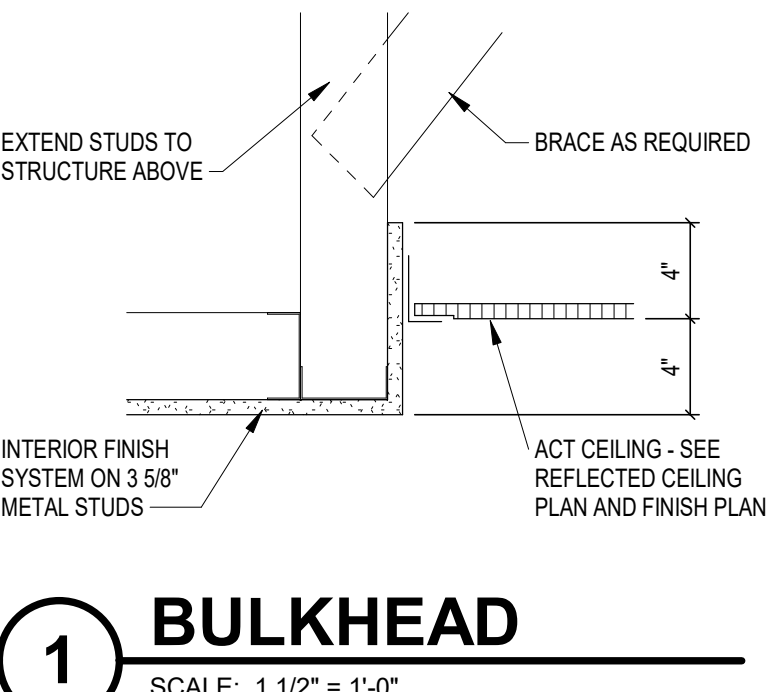
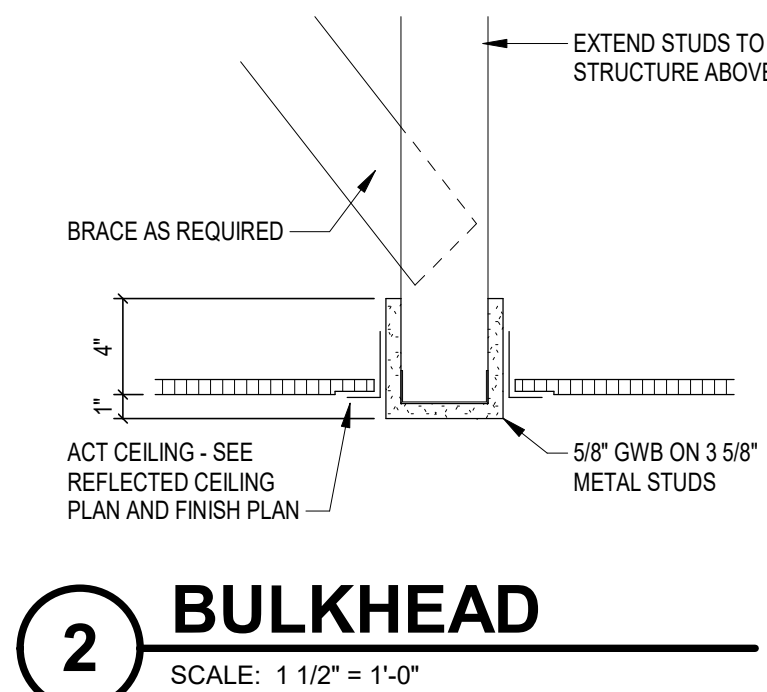
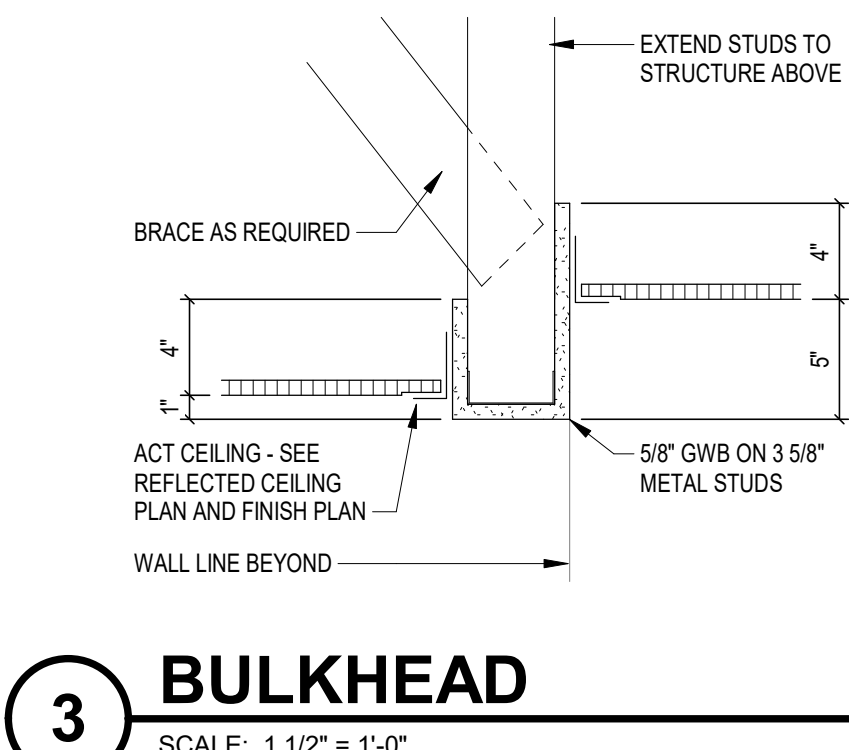
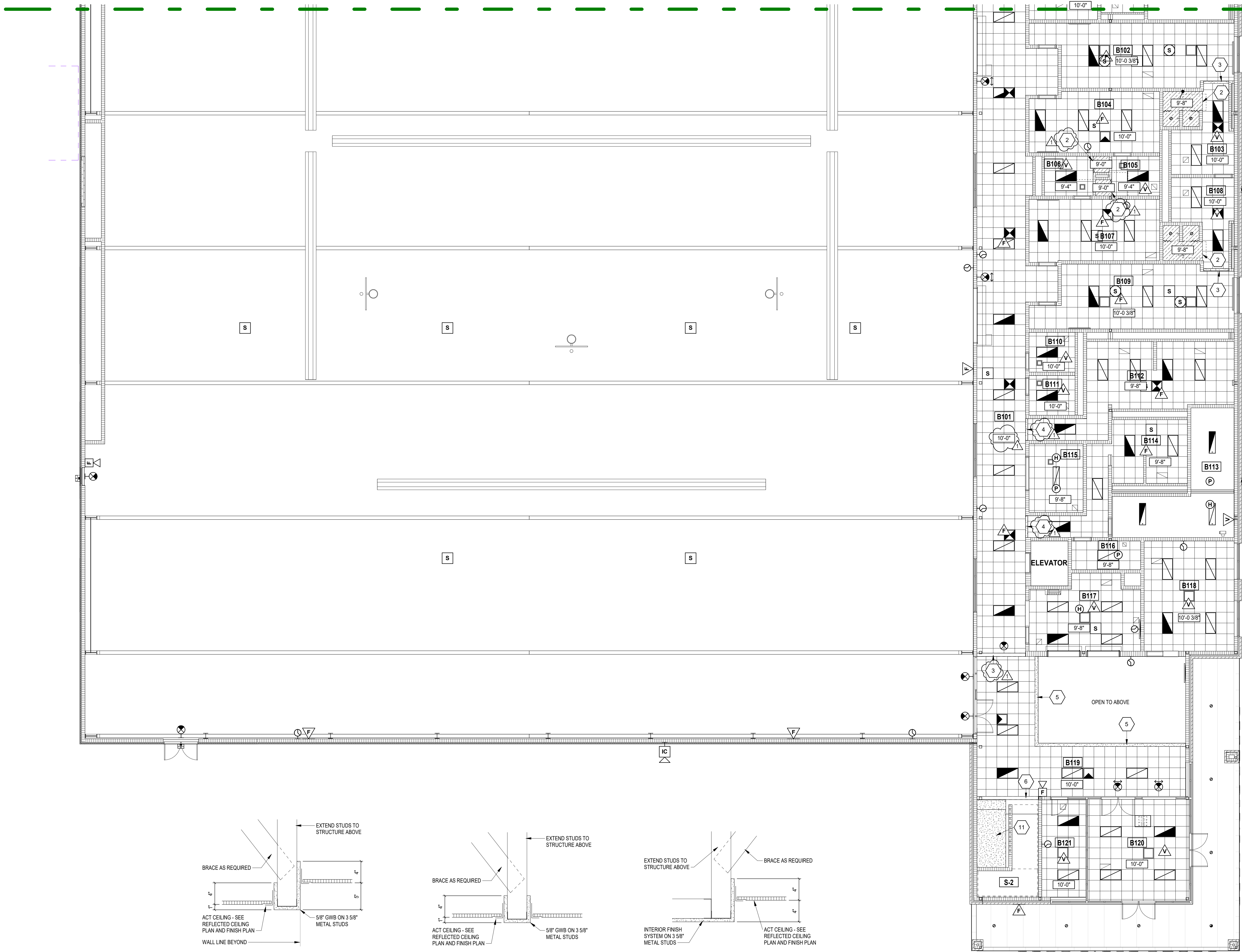
VERIFICATION NOTE

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

### FIRST FLOOR CEILING PLAN - UNIT A

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



# FIRST FLOOR CEILING PLAN - UNIT B

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

## REFLECTED CEILING PLAN NOTES

- A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL 77-A.1.
- B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK.

## REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- GWB BULKHEAD AT 9'-7" A.F.F. - SEE 1-AC11A
- INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11B
- GWB BULKHEAD AT 9'-7" A.F.F. - SEE 2-AC11B
- GWB BULKHEAD AT 9'-7" A.F.F. - SEE 3-AC11B
- GWB BULKHEAD AT 9'-8" A.F.F. AND GUARDRAIL - SEE 11-A321
- GWB BULKHEAD AT 9'-11" A.F.F. - SEE 1-AC11A
- GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12A
- GWB BULKHEAD AT 10'-0" A.F.F. AND OPERABLE WALL (ALTERNATE) - SEE 1-AC12B
- GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12B
- GWB BULKHEAD AT 10'-0" A.F.F. - SEE SECTION 3-4404
- GWB CEILING AT UNDERSIDE OF STAIR - SEE 5-4404
- PROVIDE 4" PERIMETER TRIM AROUND CLOUDS

## ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1,163 SF
B102	LOCKER ROOM #1	399 SF
B103	SHOWER	184 SF
B104	DRESSING ROOM #1	281 SF
B105	TOILET	74 SF
B106	TOILET	75 SF
B107	DRESSING ROOM #2	270 SF
B108	SHOWER	184 SF
B109	LOCKER ROOM #2	401 SF
B110	TOILET	63 SF
B111	TOILET	63 SF
B112	GIRLS RESTROOM	388 SF
B113	FIRE RISER	384 SF
B114	BOYS RESTROOM	270 SF
B115	STORAGE	127 SF
B116	CUSTODIAN	68 SF
B117	CONCESSION	283 SF
B118	OFFICE	341 SF
B119	LOBBY	1,030 SF
B120	VESTIBULE	369 SF
B121	SRO OFFICE	159 SF
S-2	STAIR	115 SF

## REFLECTED CEILING PLAN LEGEND

- 10'-0" INDICATES ELEVATION HEIGHT
- XX-XX INDICATES CEILING HEIGHT
- X1 XX-XX INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- RECESSED CEILING SPEAKER
- MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED CAMERA
- WIRELESS ACCESS POINT (WAP)
- CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- SOUND REINFORCEMENT SPEAKER
- FIRE ALARM HEAT DETECTOR
- FIRE ALARM HORN STROBE
- FIRE ALARM SPEAKER STROBE
- FIRE ALARM STROBE
- FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

## VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

## PENN-HARRIS-MADISON SCHOOL CORPORATION



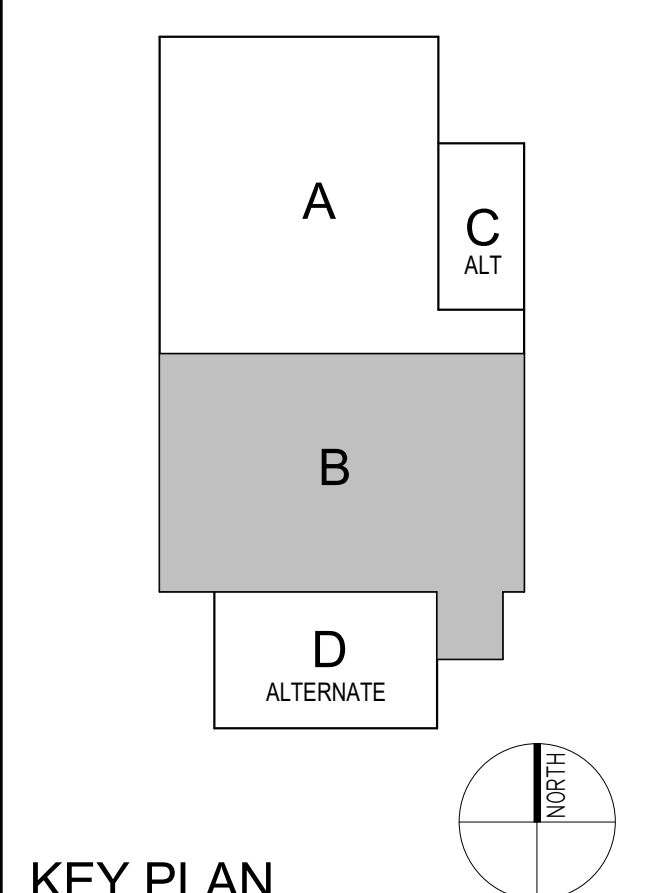
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## FANNING HOWEY

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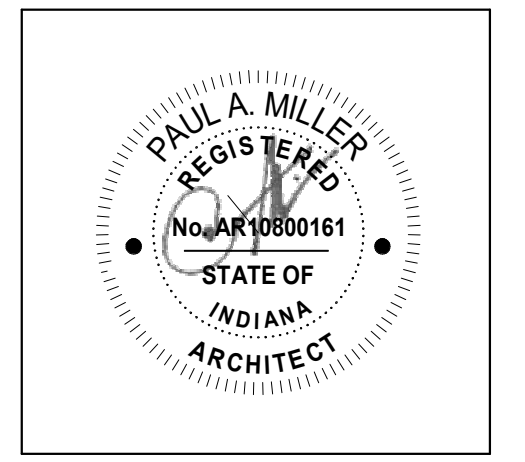
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## KEY PLAN

## Construction Documents



PROJECT MANAGER: MKS

PROJECT NUMBER: 222130.00

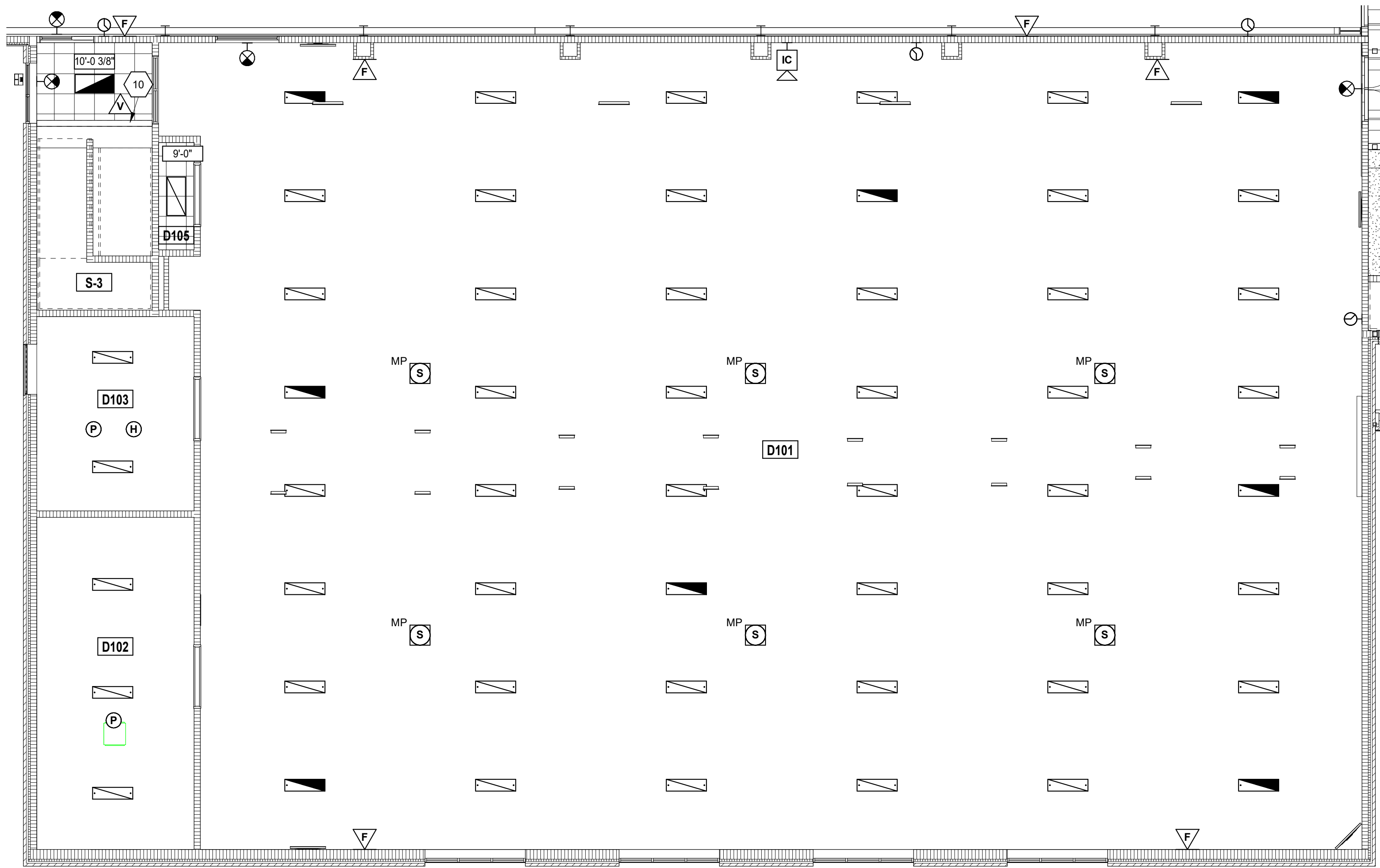
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

## FIRST FLOOR REFLECTED CEILING PLAN - UNIT B

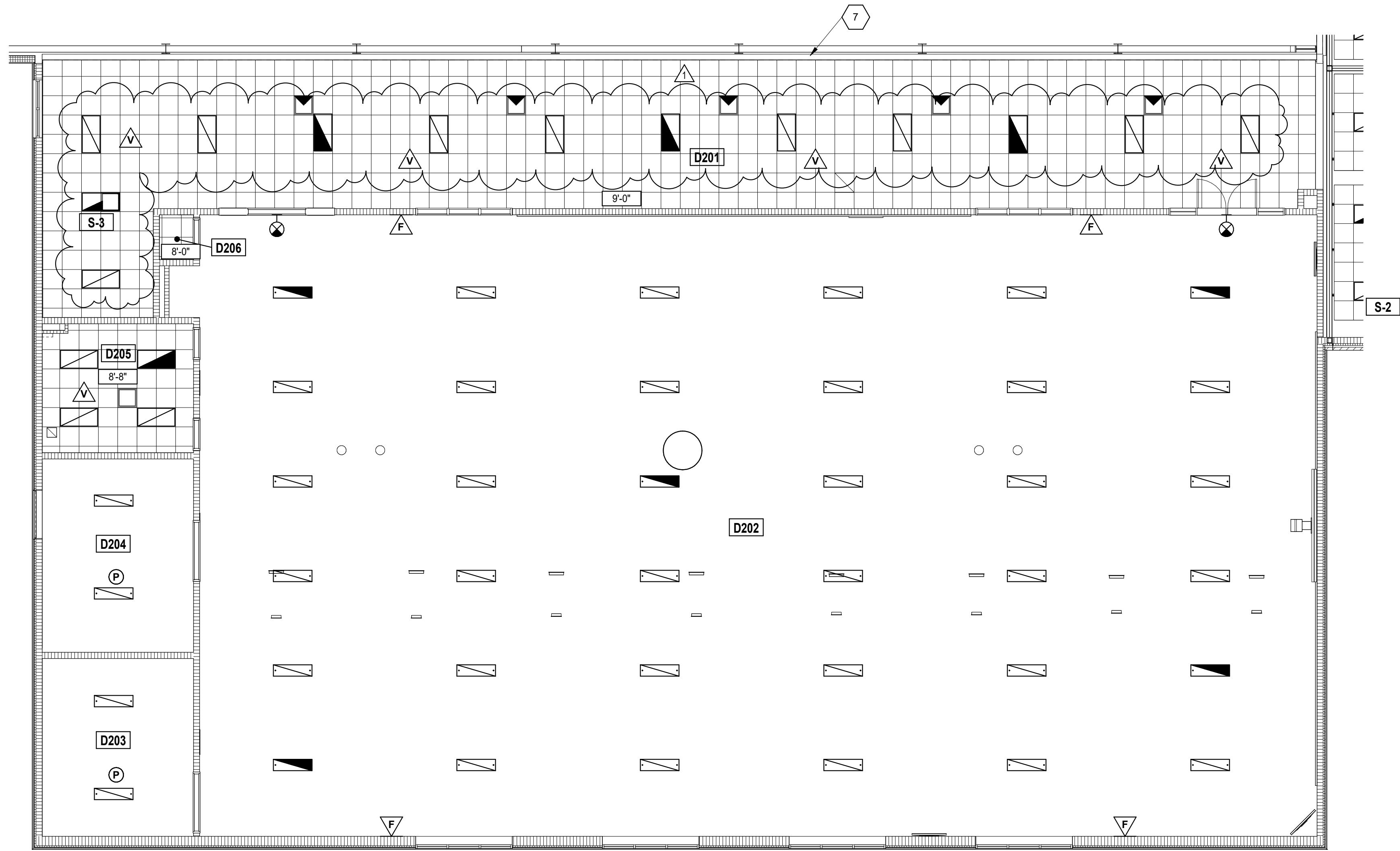
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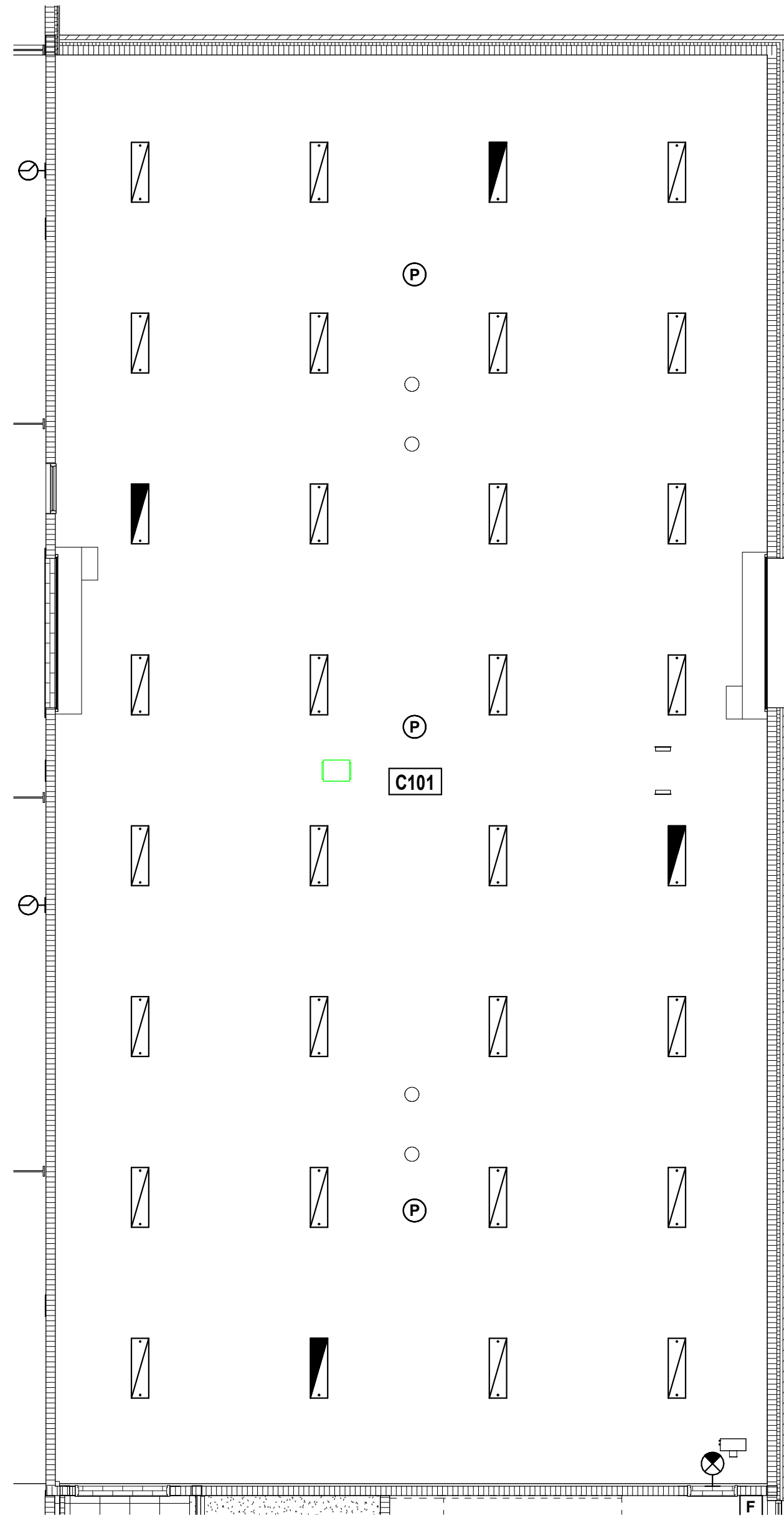
FIRST FLOOR CEILING PLAN ALTERNATE - UNIT D

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



SECOND FLOOR CEILING PLAN ALTERNATE - UNIT D

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



FIRST FLOOR CEILING PLAN ALTERNATE - UNIT C

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	296 SF
B119	LOBBY	1,035 SF
B201	CORRIDOR	1,444 SF
B217	COMMONS	984 SF
S-1	STAIR	81 SF
S-2	STAIR	115 SF
S-2	STAIR	175 SF

REFLECTED CEILING PLAN NOTES

- A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL 77-A.1.
- B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 1-AC11A
2. INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11B
3. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 2-AC11B
4. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 3-AC11B
5. GWB BULKHEAD AT 9'-8" A.F.F. AND GUARDRAIL - SEE 11-A321
6. GWB BULKHEAD AT 9'-11" A.F.F. - SEE 1-AC11A
7. GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12A
8. GWB BULKHEAD AT 9'-4" A.F.F. AND OPERABLE WALL (ALTERNATE) - SEE 1-AC12B
9. GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12B
10. GWB BULKHEAD AT 10'-0" A.F.F. - SEE SECTION 3-4404
11. GWB CEILING AT UNDERSIDE OF STAIR - SEE 5-4404
12. PROVIDE 4" PERIMETER TRIM AROUND CLOUDS

REFLECTED CEILING PLAN LEGEND

- 10'-4" INDICATES ELEVATION HEIGHT
- XX-XX INDICATES CEILING HEIGHT
- X1 XX-XX INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- RECESSED CEILING SPEAKER
- MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED CAMERA
- WIRELESS ACCESS POINT (WAP)
- CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- SOUND REINFORCEMENT SPEAKER
- FIRE ALARM HEAT DETECTOR
- FIRE ALARM HORN STROBE
- FIRE ALARM SPEAKER STROBE
- FIRE ALARM STROBE
- FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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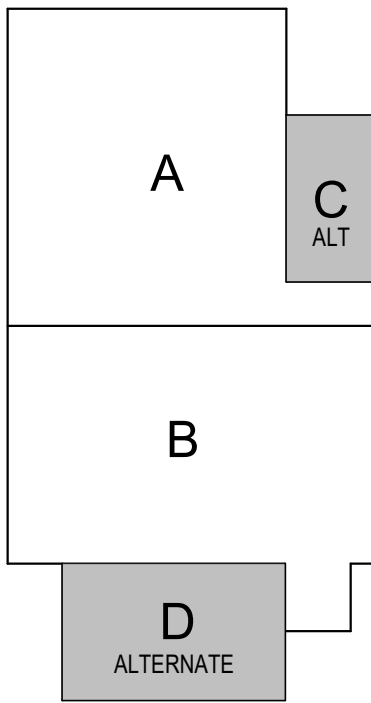
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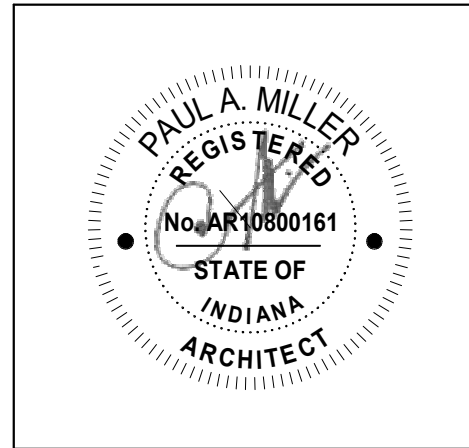
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

PROJECT NUMBER: 222130.00

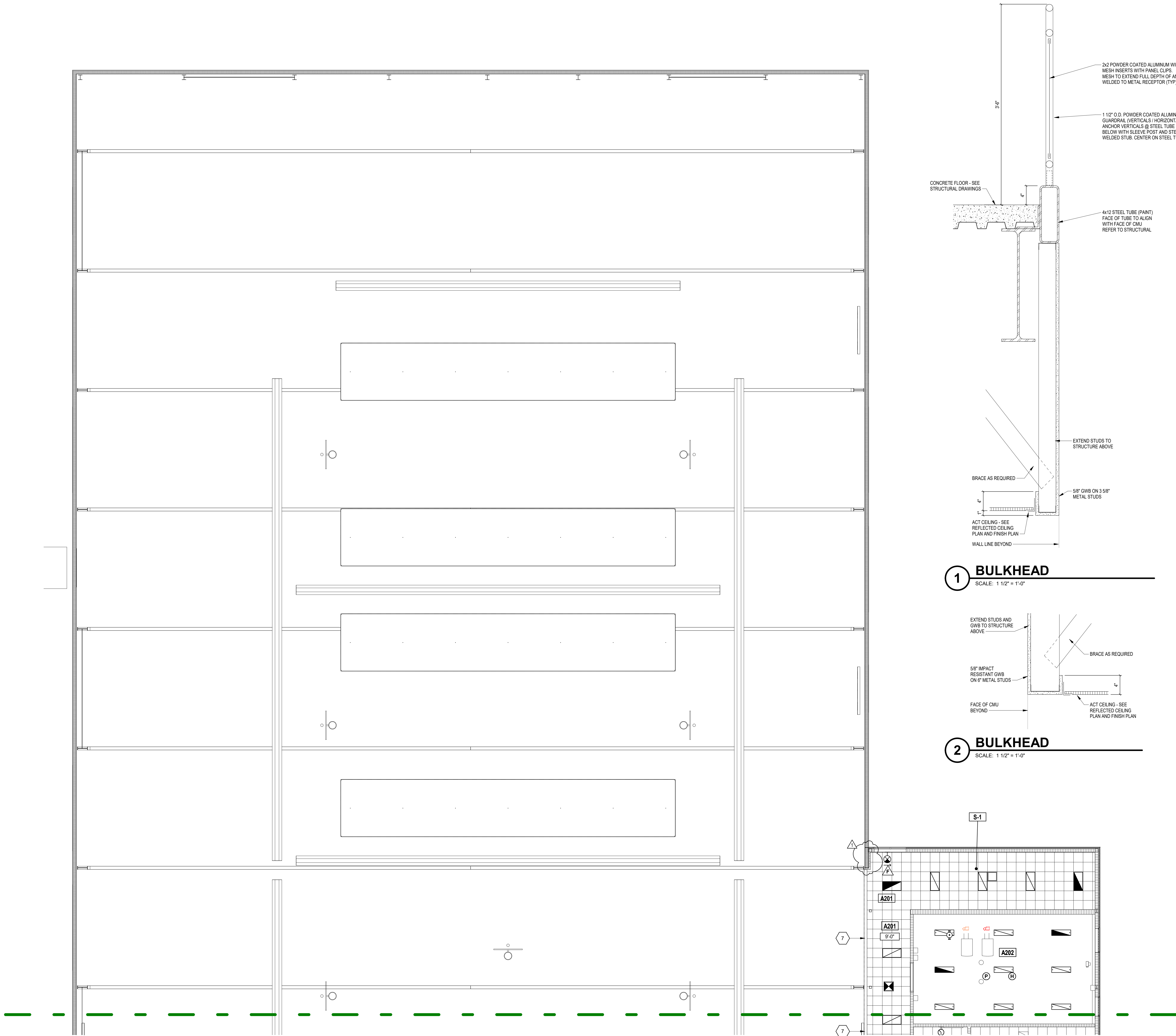
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

REFLECTED CEILING PLANS - ALTERNATES

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SECOND FLOOR CEILING PLAN - UNIT A

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

#### REFLECTED CEILING PLAN NOTES

- A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL 77-A8.1.
- B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

#### REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- GWB BULKHEAD AT 9'-7" A.F.F. - SEE 1-AC11A
- INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11B
- GWB BULKHEAD AT 9'-7" A.F.F. - SEE 2-AC11B
- GWB BULKHEAD AT 9'-7" A.F.F. - SEE 3-AC11B
- GWB BULKHEAD AT 9'-8" A.F.F. AND GUARDRAIL - SEE 11-A321
- GWB BULKHEAD AT 9'-11" A.F.F. - SEE 1-AC11A
- GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12A
- GWB BULKHEAD AT 9'-4" A.F.F. AND OPERABLE WALL (ALTERNATE) - SEE 1-AC12B
- GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12B
- GWB BULKHEAD AT 10'-0" 3/8" A.F.F. - SEE SECTION 3-4404
- GWB CEILING AT UNDERSIDE OF STAIR - SEE 5-4404
- PROVIDE 4" PERIMETER TRIM AROUND CLOUDS

#### ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A102	CORRIDOR	328 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
B201	CORRIDOR	1,444 SF
B202	LOCKER ROOM #3	390 SF
S-1	STAIR	81 SF

#### REFLECTED CEILING PLAN LEGEND

- 10'-4" INDICATES ELEVATION HEIGHT
- XX-XX INDICATES CEILING HEIGHT
- X1 XX-XX INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- RECESSED CEILING SPEAKER
- MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED CAMERA
- WIRELESS ACCESS POINT (WAP)
- CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- SOUND REINFORCEMENT SPEAKER
- FIRE ALARM HEAT DETECTOR
- FIRE ALARM HORN STROBE
- FIRE ALARM SPEAKER STROBE
- FIRE ALARM STROBE
- FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.)
- EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

#### VERIFICATION NOTE

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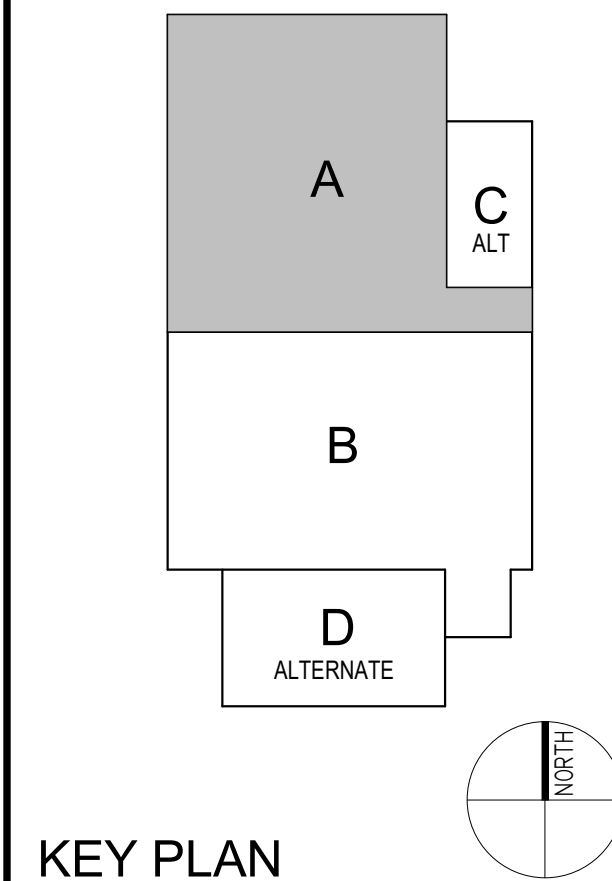
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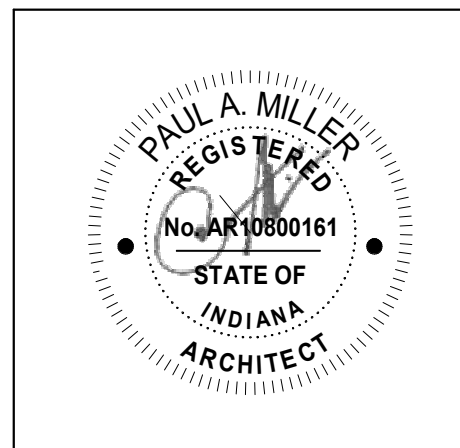
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



#### KEY PLAN

#### Construction Documents



PROJECT MANAGER: MKS

PROJECT NUMBER: 222130.00

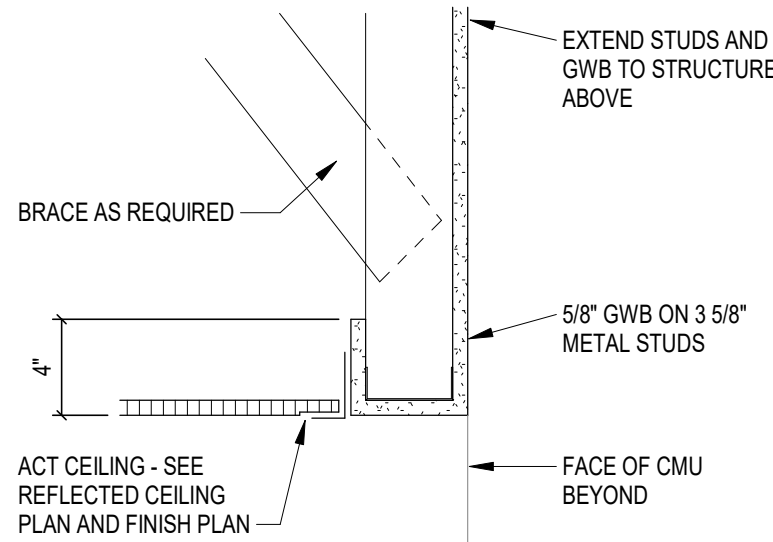
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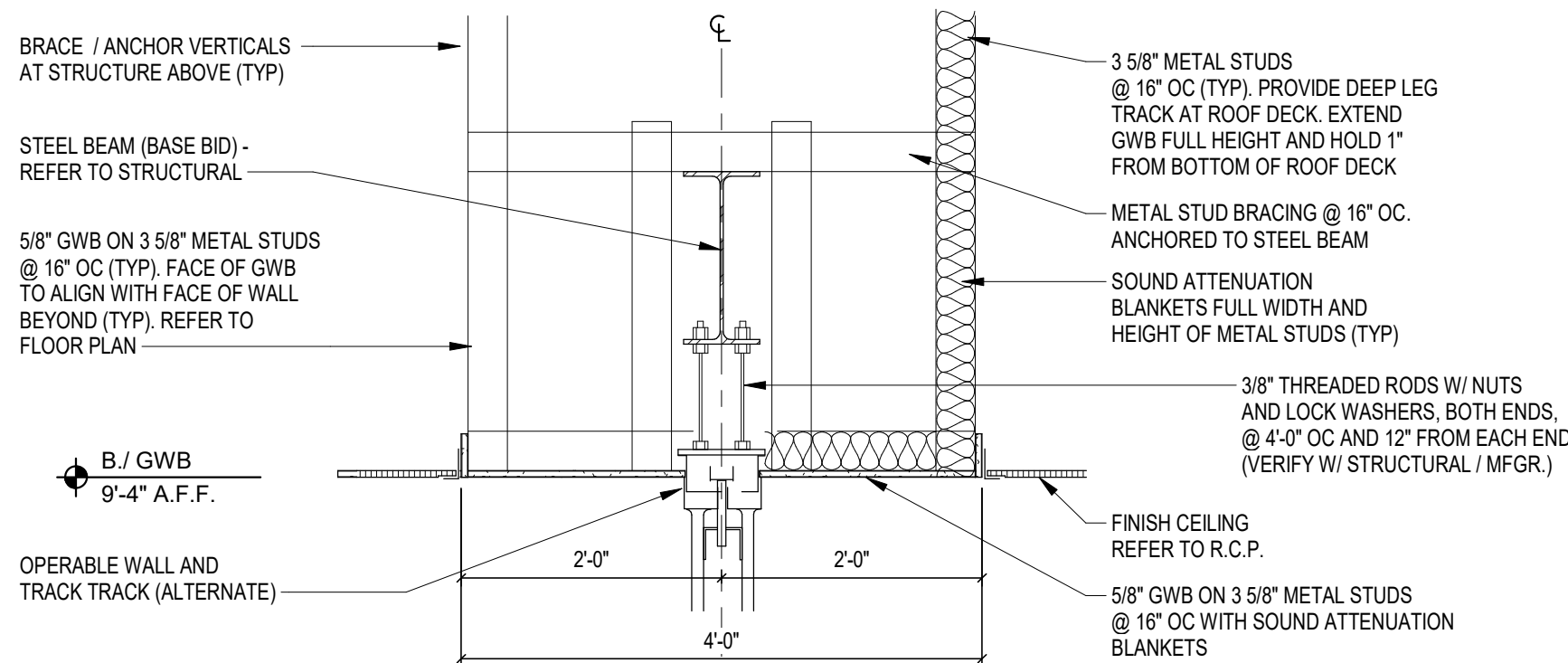
#### SECOND FLOOR REFLECTED CEILING PLAN - UNIT A

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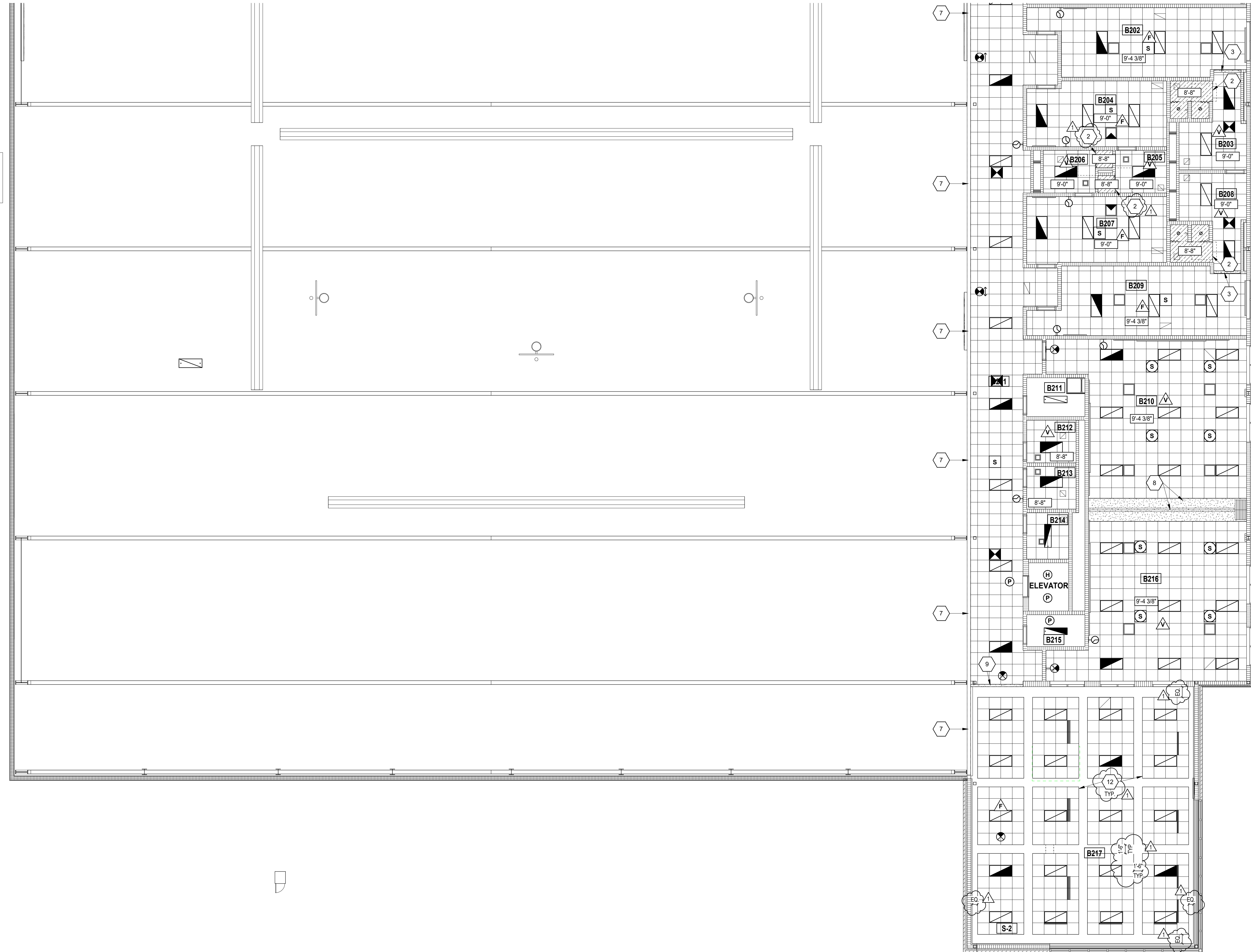
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**2 BULKHEAD**  
SCALE: 1 1/2" = 1'-0"



**1 BULKHEAD (ALTERNATE)**  
SCALE: 3/4" = 1'-0"



**100 SECOND FLOOR CEILING PLAN - UNIT B**  
SCALE: 1/8" = 1'-0"

**REFLECTED CEILING PLAN NOTES**

- A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE. REFER TO DETAIL 77-A.1.
- B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

**REFLECTED CEILING NOTES**

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 1-AC11A
2. INTERIOR FINISH SYSTEM (IFS) CEILING - SEE 1-AC11B
3. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 2-AC11B
4. GWB BULKHEAD AT 9'-7" A.F.F. - SEE 3-AC11B
5. GWB BULKHEAD AT 9'-8" A.F.F. AND GUARDRAIL - SEE 11-A321
6. GWB BULKHEAD AT 9'-11" A.F.F. - SEE 1-AC11A
7. GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12A
8. GWB BULKHEAD AT 9'-4" A.F.F. AND OPERABLE WALL (ALTERNATE) - SEE 1-AC12B
9. GWB BULKHEAD AT 9'-0" A.F.F. - SEE 2-AC12B
10. GWB BULKHEAD AT 10'-0 3/8" A.F.F. - SEE SECTION 3-4404
11. GWB CEILING AT UNDERSIDE OF STAIR - SEE 5-4404
12. PROVIDE 4" PERIMETER TRIM AROUND CLOUDS

**ROOM LEGEND**

ROOM NO.	ROOM NAME	AREA (SF)
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
B001	CORRIDOR	1,444 SF
B002	LOCKER ROOM #3	389 SF
B003	SHOWER	184 SF
B004	DRESSING ROOM #3	261 SF
B005	TOILET	74 SF
B006	TOILET	75 SF
B007	DRESSING ROOM #4	270 SF
B008	SHOWER	184 SF
B009	LOCKER ROOM #4	402 SF
B210	CLASSROOM	842 SF
B211	CUSTODIAN	67 SF
B212	TOILET	63 SF
B213	TOILET	63 SF
B214	ELECTRICAL / TECHNOLOGY	58 SF
B215	ELEVATOR EQUIPMENT	35 SF
B216	CLASSROOM	840 SF
B217	COMMONS	984 SF
S-2	STAIR	175 SF

**REFLECTED CEILING PLAN LEGEND**

- 10'-4" INDICATES ELEVATION HEIGHT
- XX-XX INDICATES CEILING HEIGHT
- X1 XX-XX INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
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- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- RECESSED CEILING SPEAKER
- MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CEILING MOUNTED CAMERA
- WIRELESS ACCESS POINT (WAP)
- CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- SOUND REINFORCEMENT SPEAKER
- FIRE ALARM HEAT DETECTOR
- FIRE ALARM HORN STROBE
- FIRE ALARM SPEAKER STROBE
- FIRE ALARM STROBE
- FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
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- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

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**PENN HIGH SCHOOL FIELDHOUSE**

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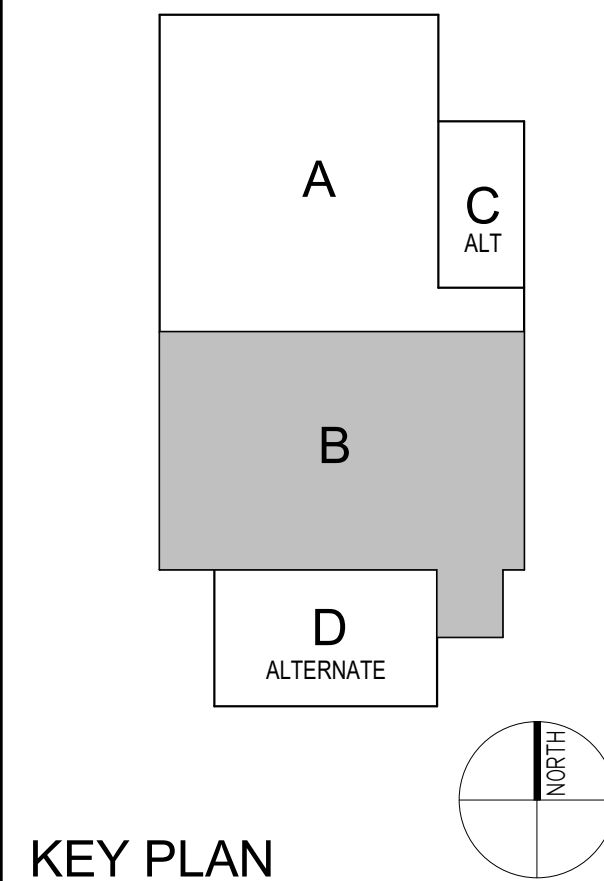
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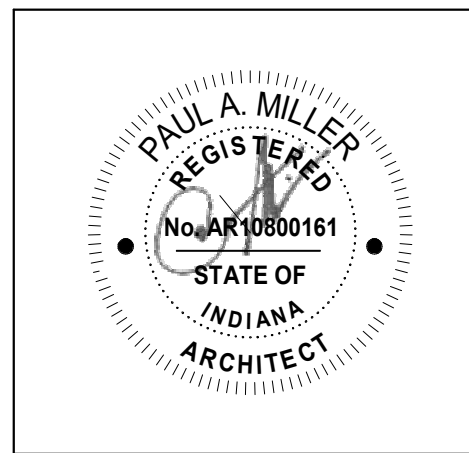
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**KEY PLAN**

**Construction Documents**



PROJECT MANAGER: MKS

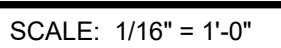
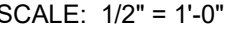
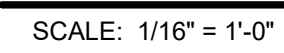
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

**SECOND FLOOR REFLECTED CEILING PLAN - UNIT B**

**AC12B**

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



PENN HIGH SCHOOL FIELDHOUSE

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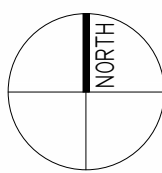
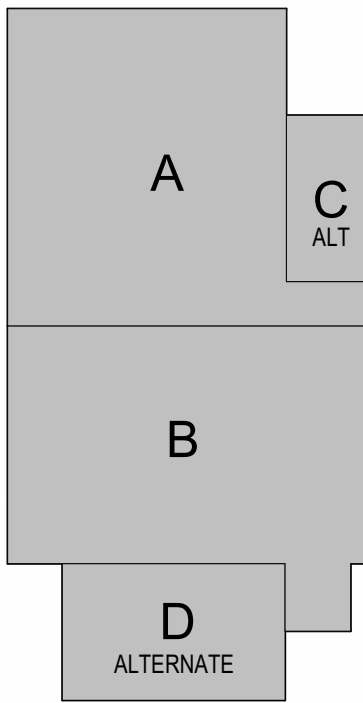
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

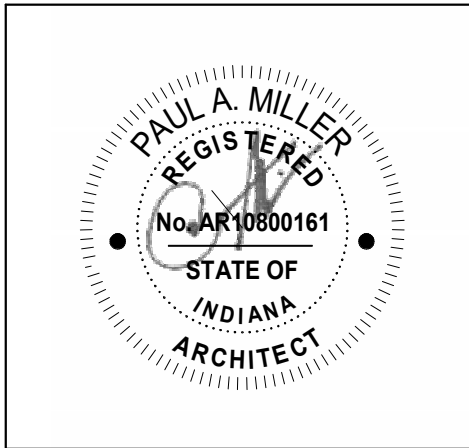


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KEY PLAN

Construction Documents

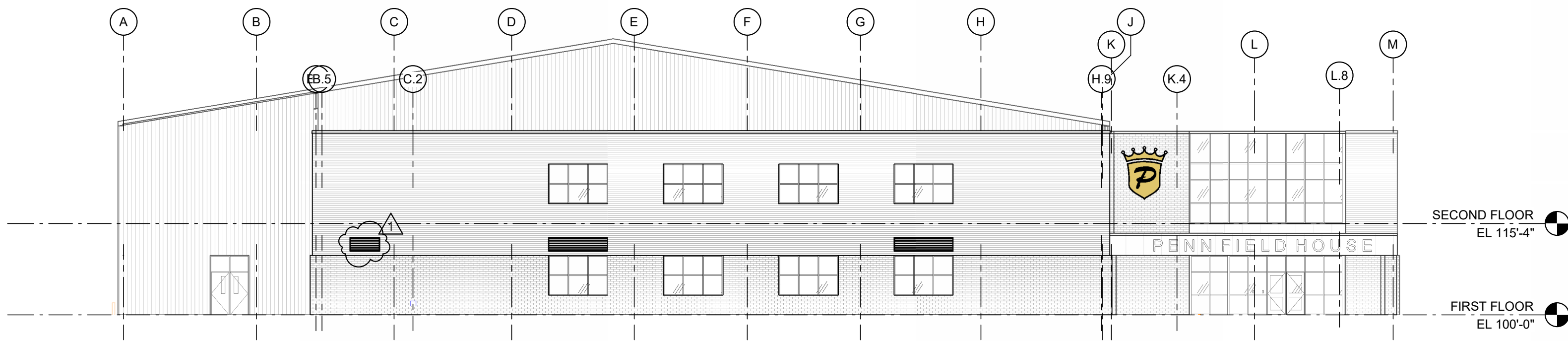


PROJECT MANAGER: MKS  
DRAWN BY: Author  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

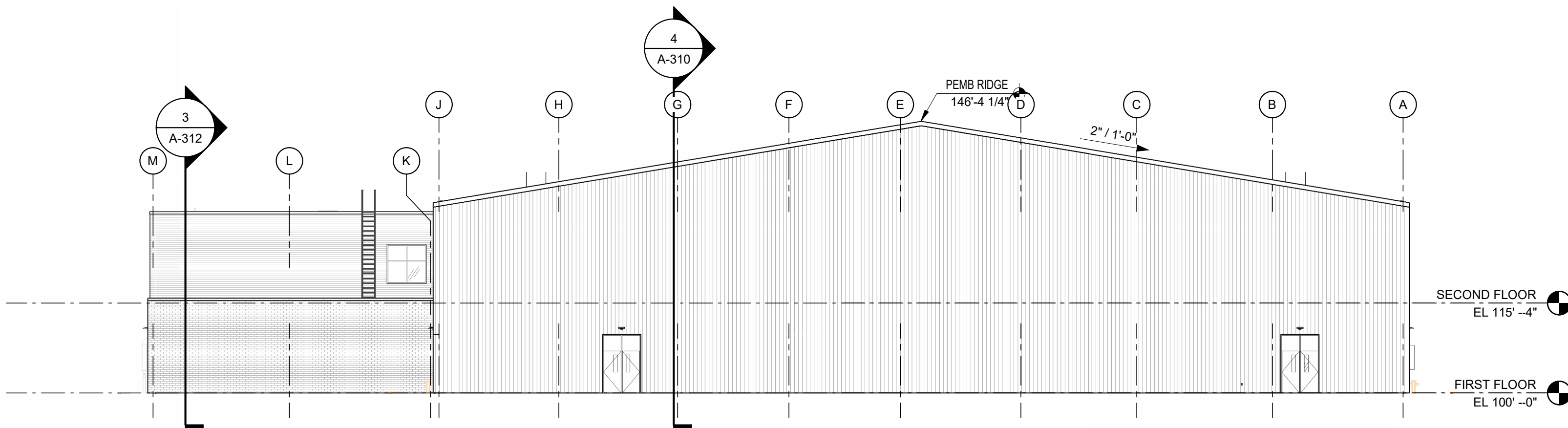
REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

COMPOSITE BUILDING ELEVATIONS

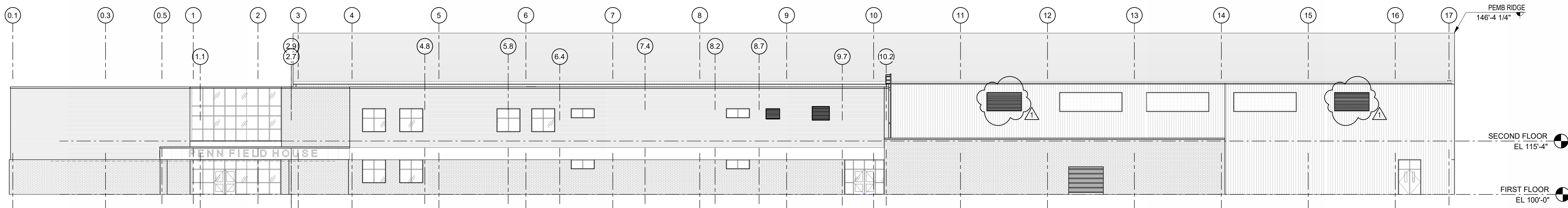
A-201



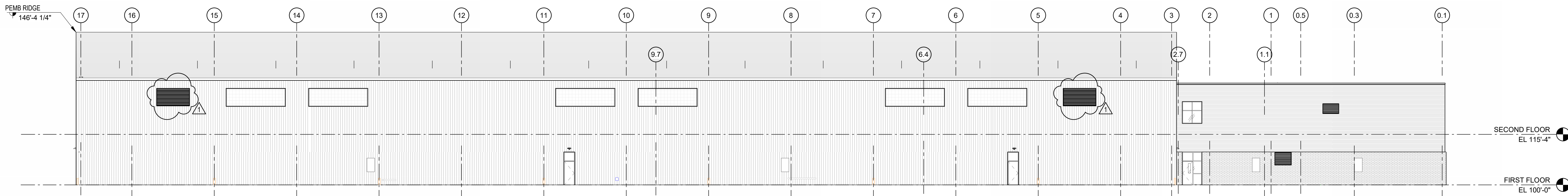
2 SOUTH COMPOSITE BUILDING ELEVATION  
SCALE: 1/16" = 1'-0"



1 NORTH COMPOSITE BUILDING ELEVATION  
SCALE: 1/16" = 1'-0"



3 EAST COMPOSITE BUILDING ELEVATION  
SCALE: 1/16" = 1'-0"



4 WEST COMPOSITE BUILDING ELEVATION  
SCALE: 1/16" = 1'-0"

NOTE: COMPOSITE ELEVATIONS SHOW BOTH BASE BID AND ALTERNATE ELEVATIONS

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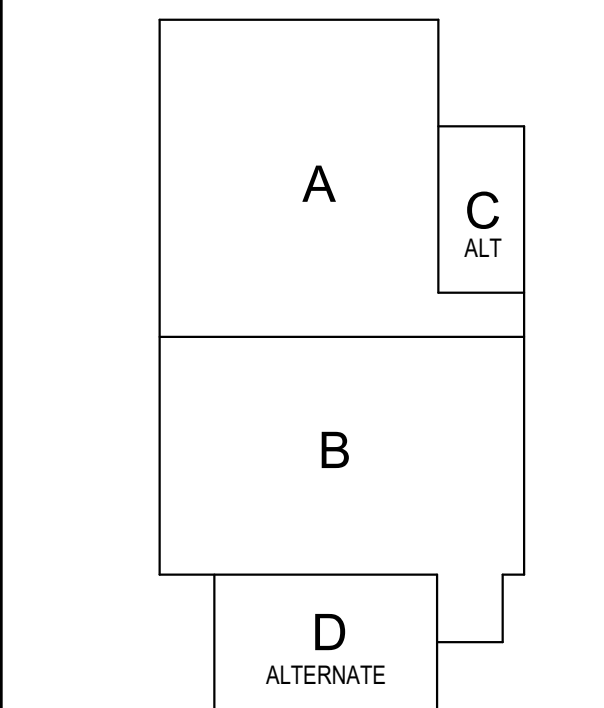
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

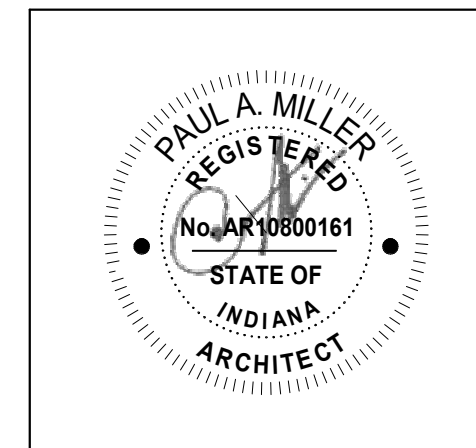
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## KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

BUILDING ELEVATIONS

**A-203**

## ELEVATIONS GENERAL NOTES

- REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.
- REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
- REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

## BUILDING ELEVATION NOTES

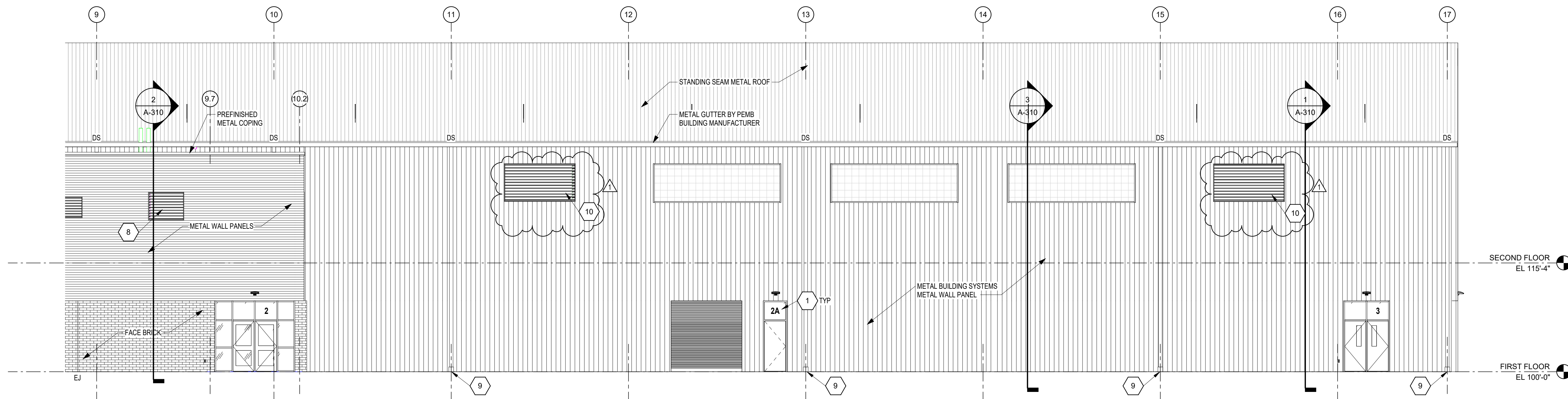
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- VINYL ENTRANCE NUMBERS
- FACE LIT LED ILLUMINATED CHANNEL LOGO MOUNTED FLUSH TO BRICK - OVERALL SIZE IS 6'-0" x 9'-2". THE SHIELD AND CROWN ARE TWO SEPARATE SIGNS.
- KNOX BOX
- AIR INTAKE LOUVER (D1) (5'-0" x 4'-0") HEAD AT 10'-0" ABOVE FIRST FLOOR LINE
- AIR INTAKE LOUVER (D2) (5'-0" x 3'-0") HEAD AT 9'-4" ABOVE SECOND FLOOR LINE
- AIR INTAKE LOUVER (D4 & D5) (10'-0" x 2'-4") HEAD AT 13'-0" ABOVE FIRST FLOOR LINE
- AIR INTAKE LOUVER (A2) (4'-0" x 3'-0") HEAD AT 9'-4" ABOVE SECOND FLOOR LINE
- AIR INTAKE LOUVER (A1) (5'-0" x 4'-0") HEAD AT 10'-0" ABOVE SECOND FLOOR LINE
- DOWNSPOUT BOOT - SEE PLUMBING DRAWINGS
- AIR INTAKE LOUVER (A3, A4, A5 & B1) (10'-0" x 5'-4") HEAD AT 24'-4" ABOVE FIRST FLOOR LINE
- AIR INTAKE LOUVER (D3) (5'-0" x 2'-4") HEAD AT 13'-0" ABOVE FIRST FLOOR LINE

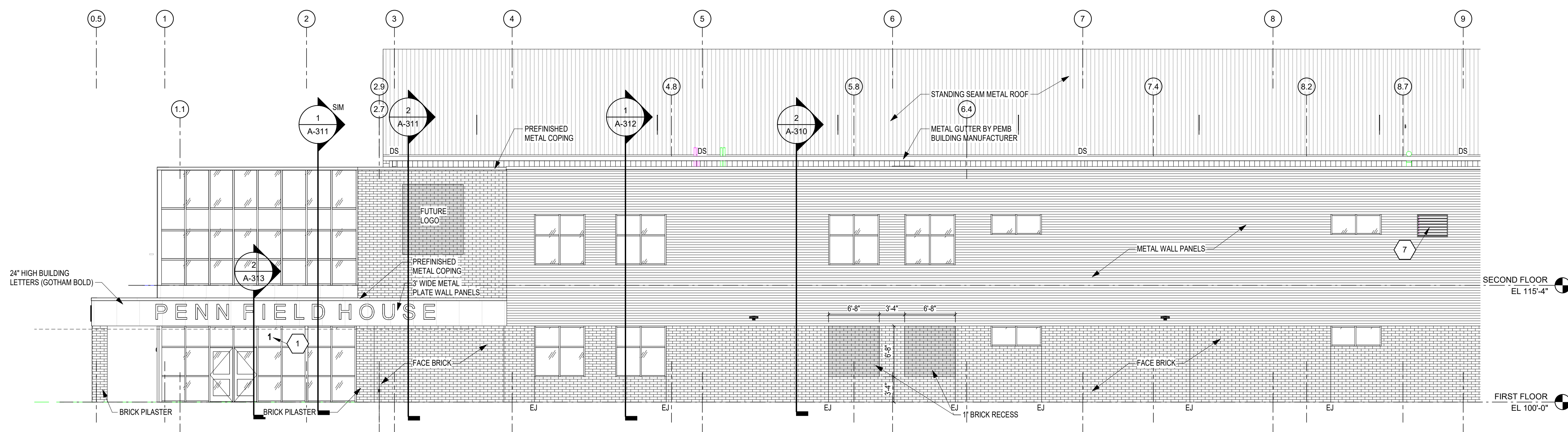
## VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



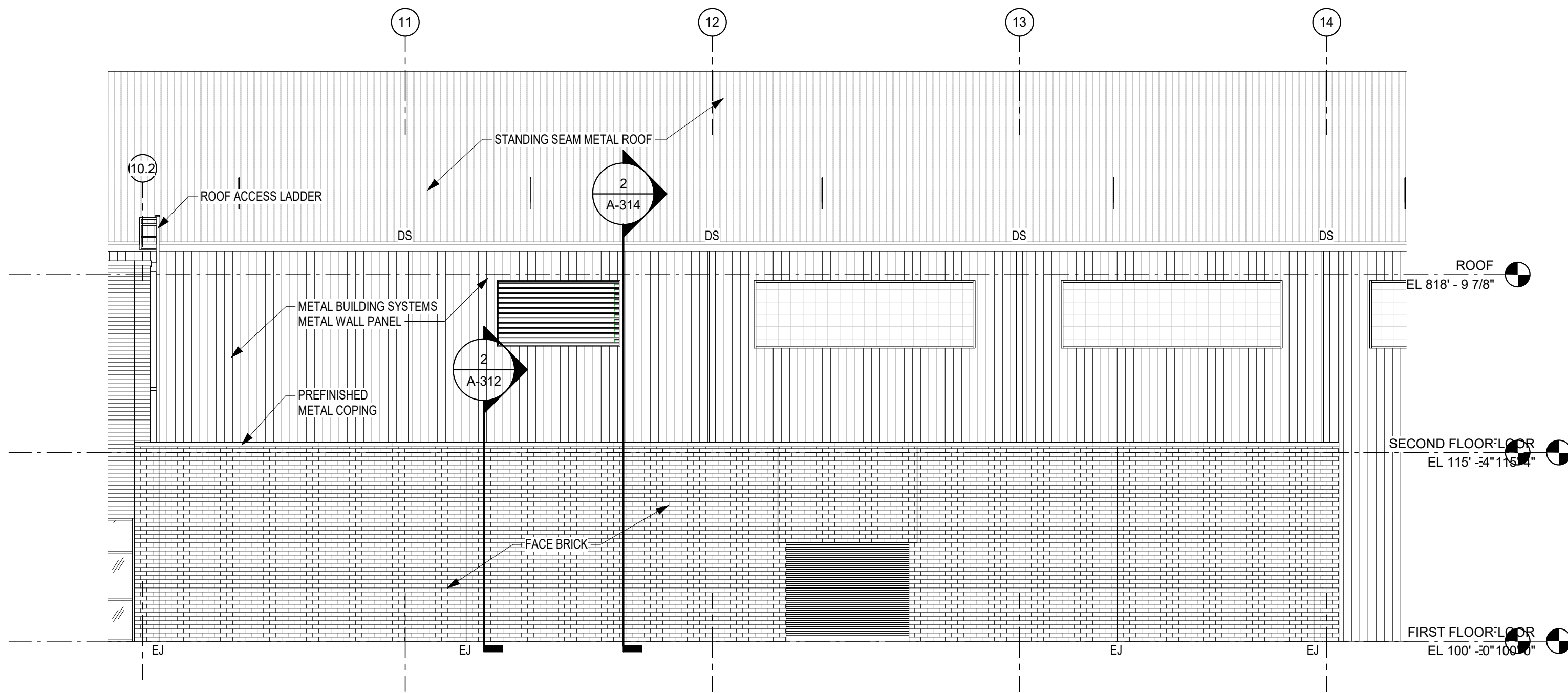
**1 EAST ELEVATION - NORTH**  
SCALE: 1/8" = 1'-0"



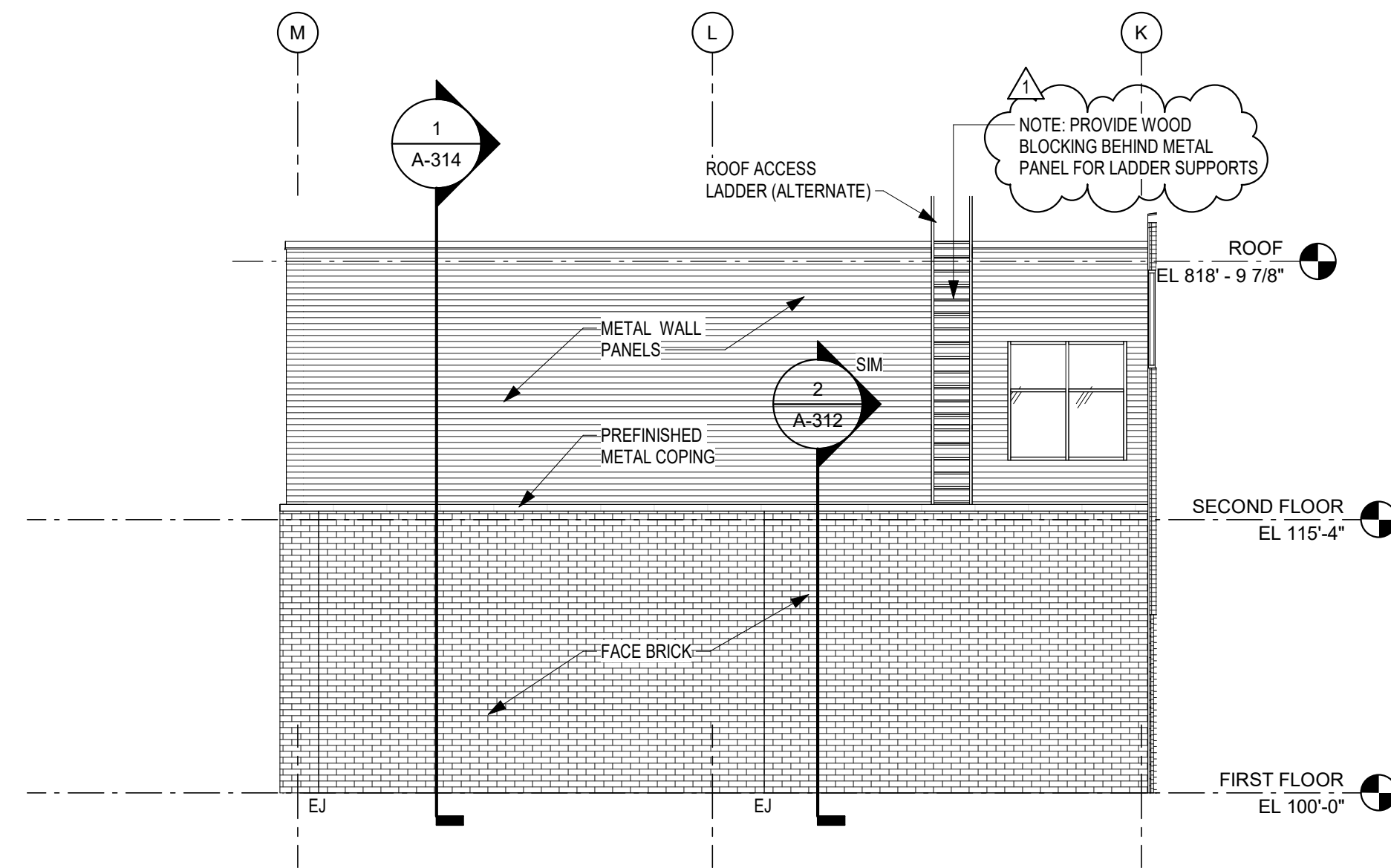
**2 EAST ELEVATION - SOUTH**  
SCALE: 1/8" = 1'-0"



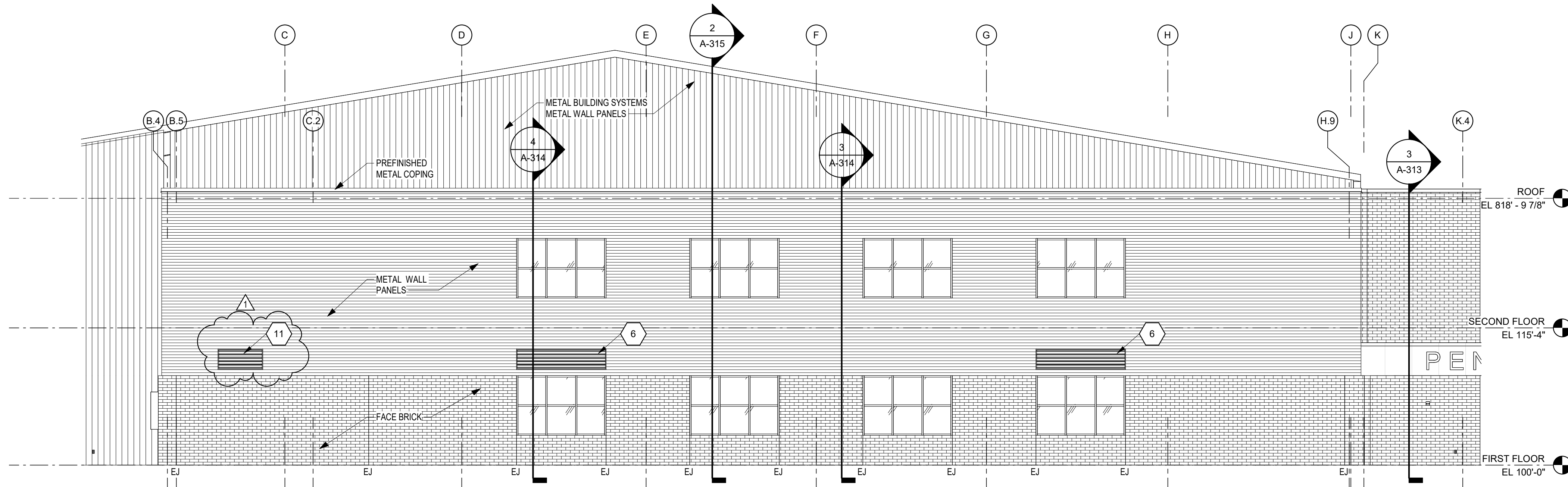
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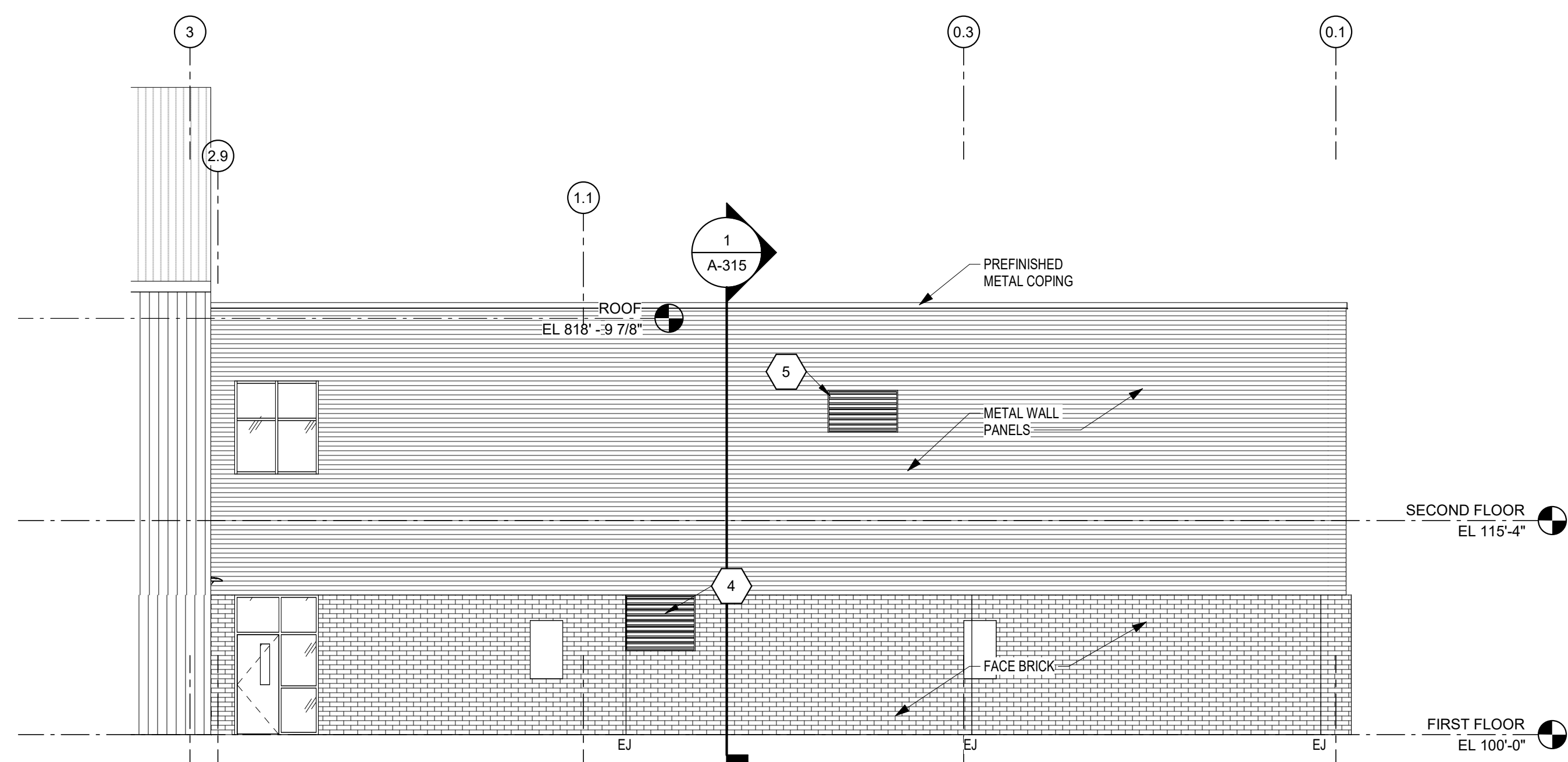
**2 EAST ELEVATION - UNIT C ALTERNATE**  
SCALE: 1/8" = 1'-0"



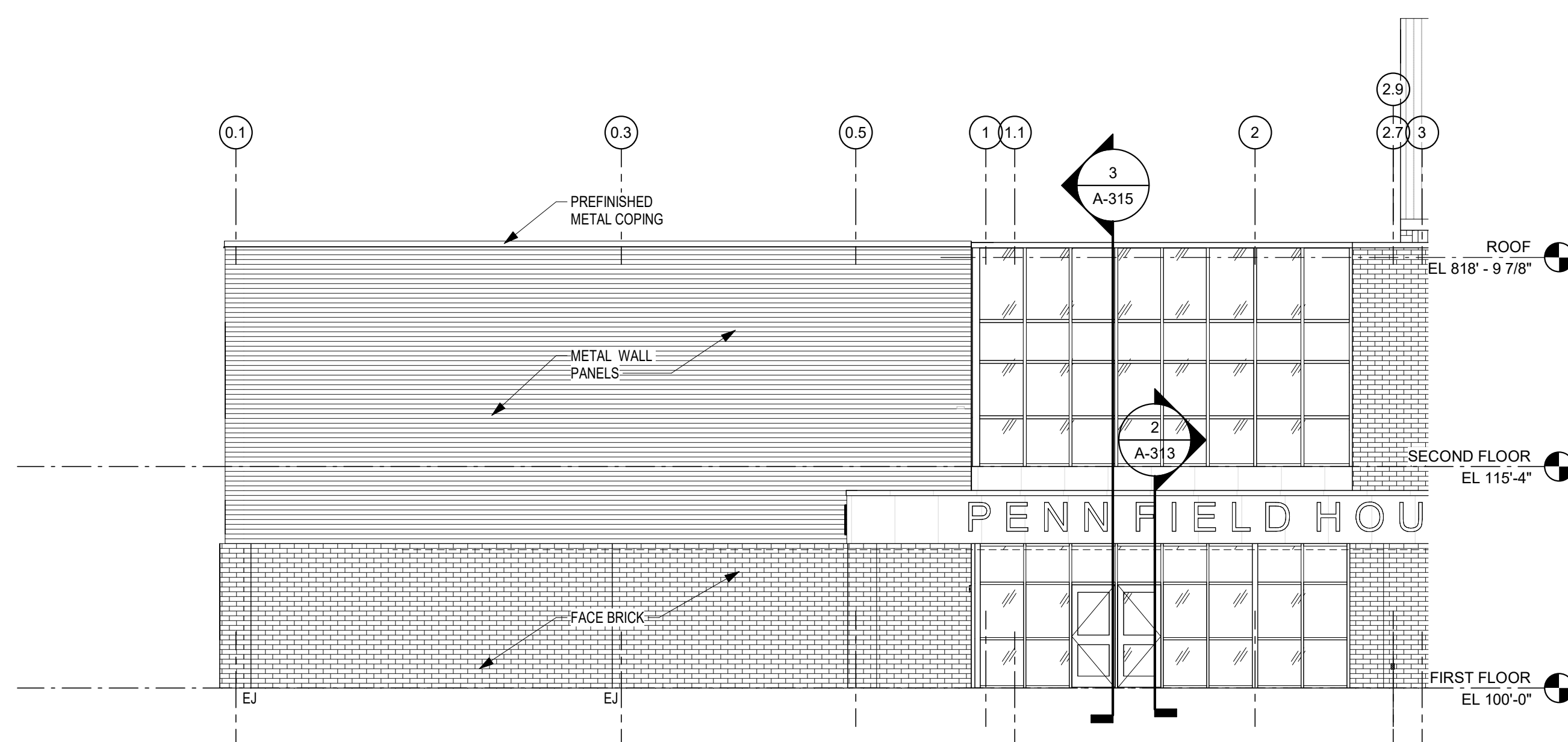
**1 NORTH ELEVATION - UNIT C ALTERNATE**  
SCALE: 1/8" = 1'-0"



**3 SOUTH ELEVATION - UNIT D ALTERNATE**  
SCALE: 1/8" = 1'-0"



**5 WEST ELEVATION - UNIT D ALTERNATE**  
SCALE: 1/8" = 1'-0"



**4 EAST ELEVATION - UNIT D ALTERNATE**  
SCALE: 1/8" = 1'-0"

**ELEVATIONS GENERAL NOTES**

- A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.
- B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.
- C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

**BUILDING ELEVATION NOTES**

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. VINYL ENTRANCE NUMBERS
2. FACE LIT LED ILLUMINATED CHANNEL LOGO MOUNTED FLUSH TO BRICK - OVERALL SIZE IS 6'-0" x 9'-2". THE SHIELD AND CROWN ARE TWO SEPARATE SIGNS.
3. KNOX BOX
4. AIR INTAKE LOUVER (D1) (5'-0" x 4'-0") HEAD AT 10'-0" ABOVE FIRST FLOOR LINE
5. AIR INTAKE LOUVER (D2) (5'-0" x 3'-0") HEAD AT 9'-4" ABOVE SECOND FLOOR LINE
6. AIR INTAKE LOUVER (D4 & D5) (10'-0" x 2'-4") HEAD AT 13'-0" ABOVE FIRST FLOOR LINE
7. AIR INTAKE LOUVER (K2) (4'-0" x 3'-0") HEAD AT 9'-4" ABOVE SECOND FLOOR LINE
8. AIR INTAKE LOUVER (A1) (5'-0" x 4'-0") HEAD AT 10'-0" ABOVE SECOND FLOOR LINE
9. DOWNSPOUT BOOT - SEE PLUMBING DRAWINGS
10. AIR INTAKE LOUVER (A3, A4, A5 & B1) (10'-0" x 5'-4") HEAD AT 24'-4" ABOVE FIRST FLOOR LINE
11. AIR INTAKE LOUVER (D3) (5'-0" x 2'-4") HEAD AT 13'-0" ABOVE FIRST FLOOR LINE

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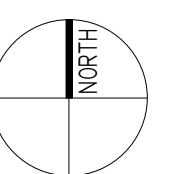
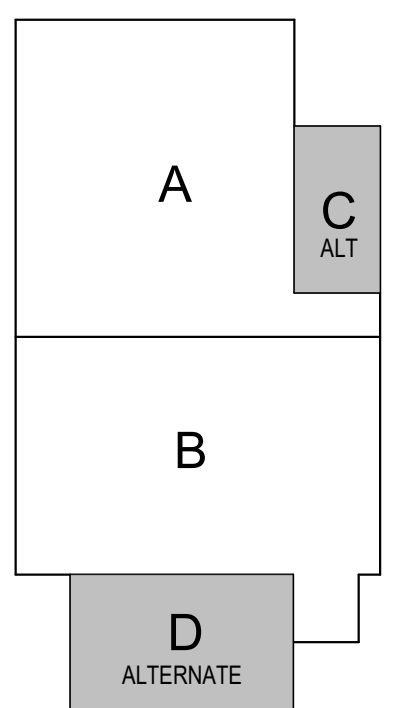
ARCHITECT

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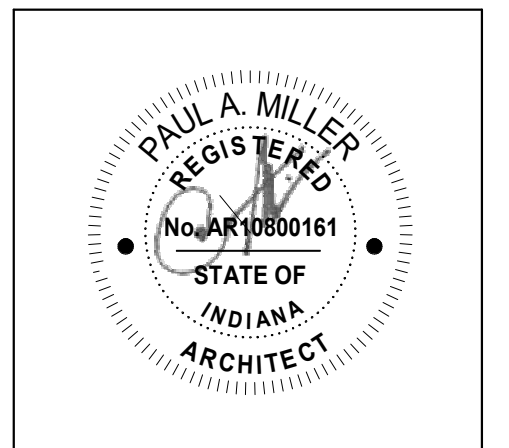
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**KEY PLAN**

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: Author

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

**VERIFICATION NOTE**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

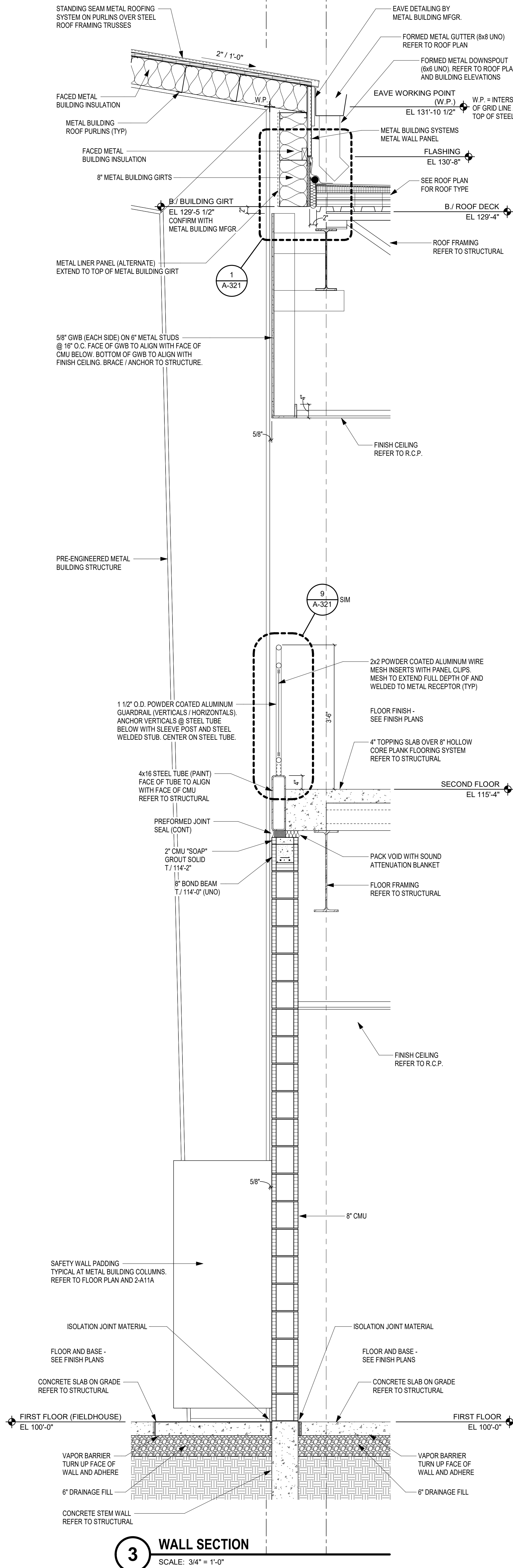
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ELEVATIONS (ALTERNATE)

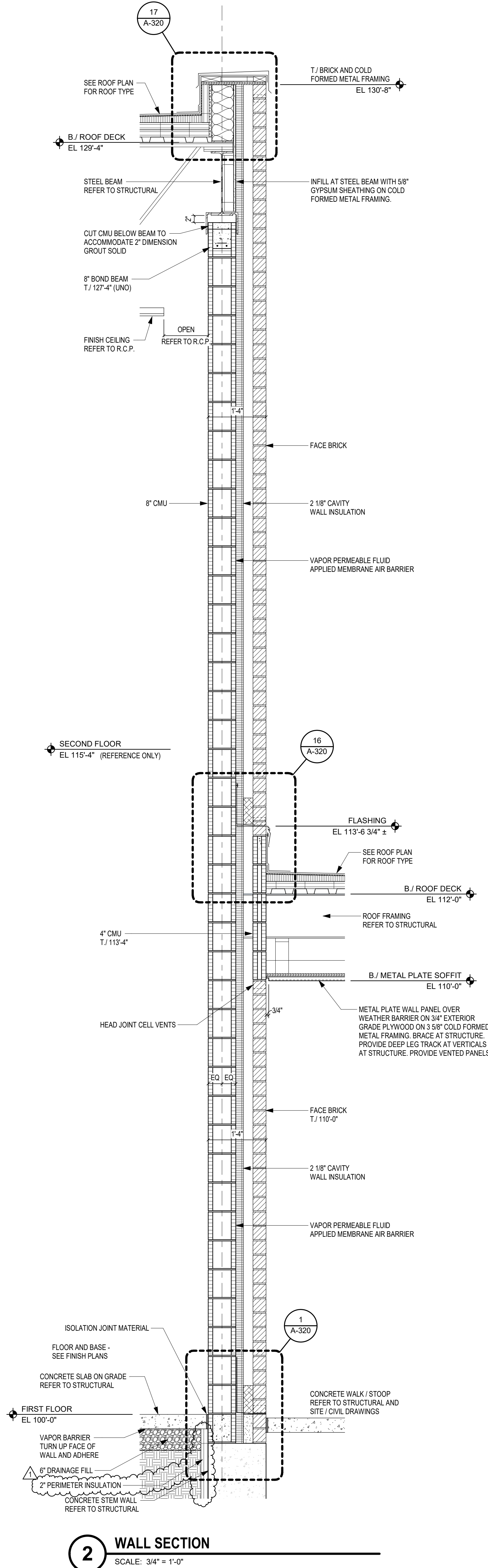
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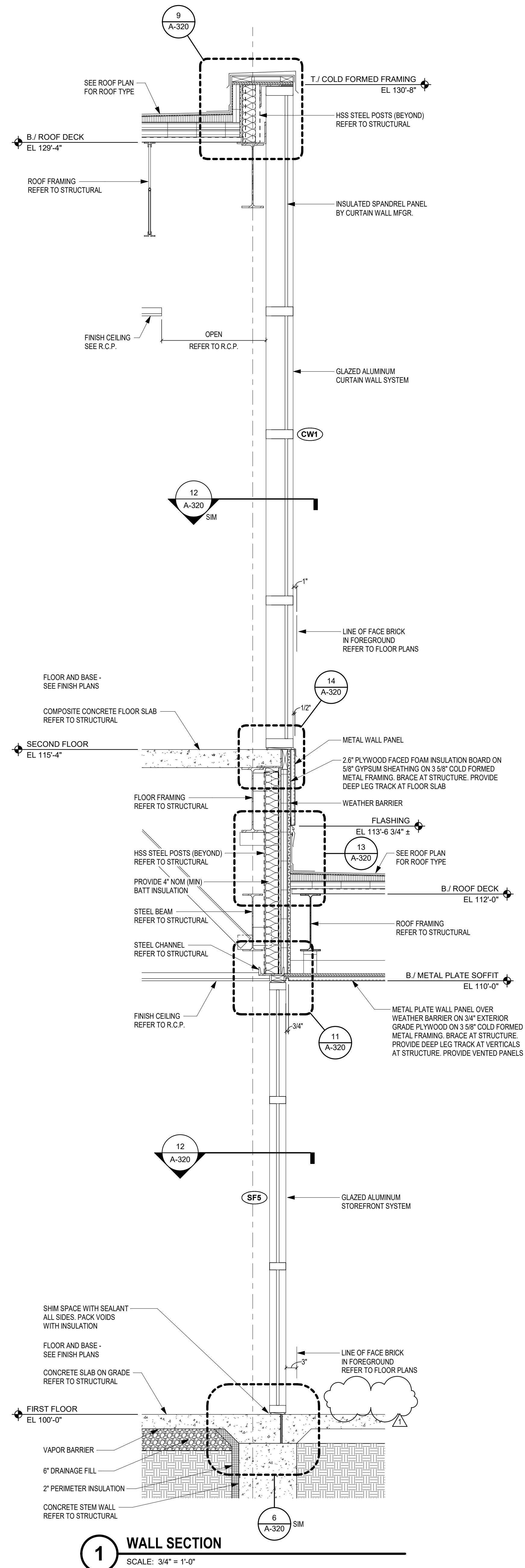
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1/26/2024 9:09:59 AM



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



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



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

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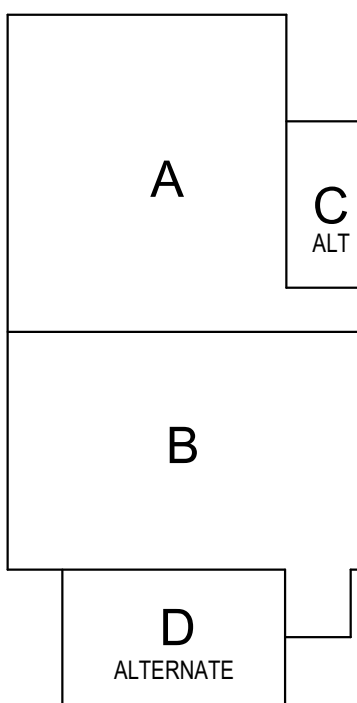
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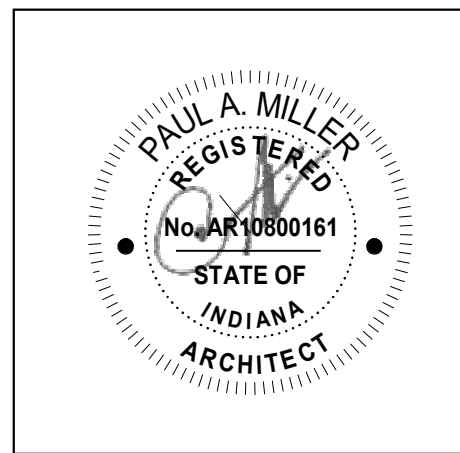
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### KEY PLAN

Construction Documents



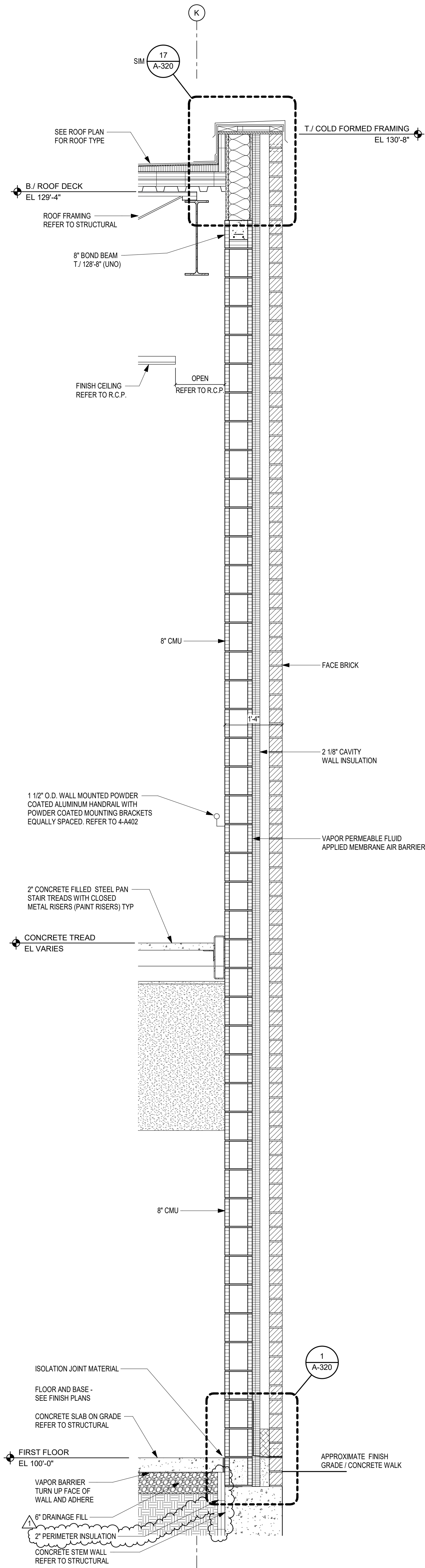
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DRAWN BY: MDM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

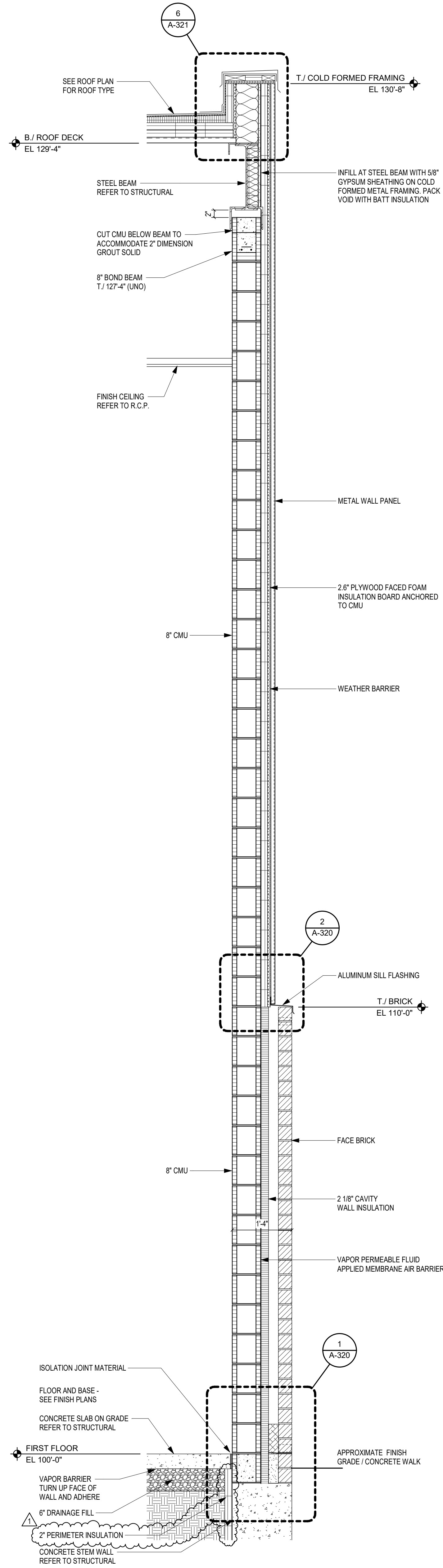
WALL SECTIONS

**A-311**

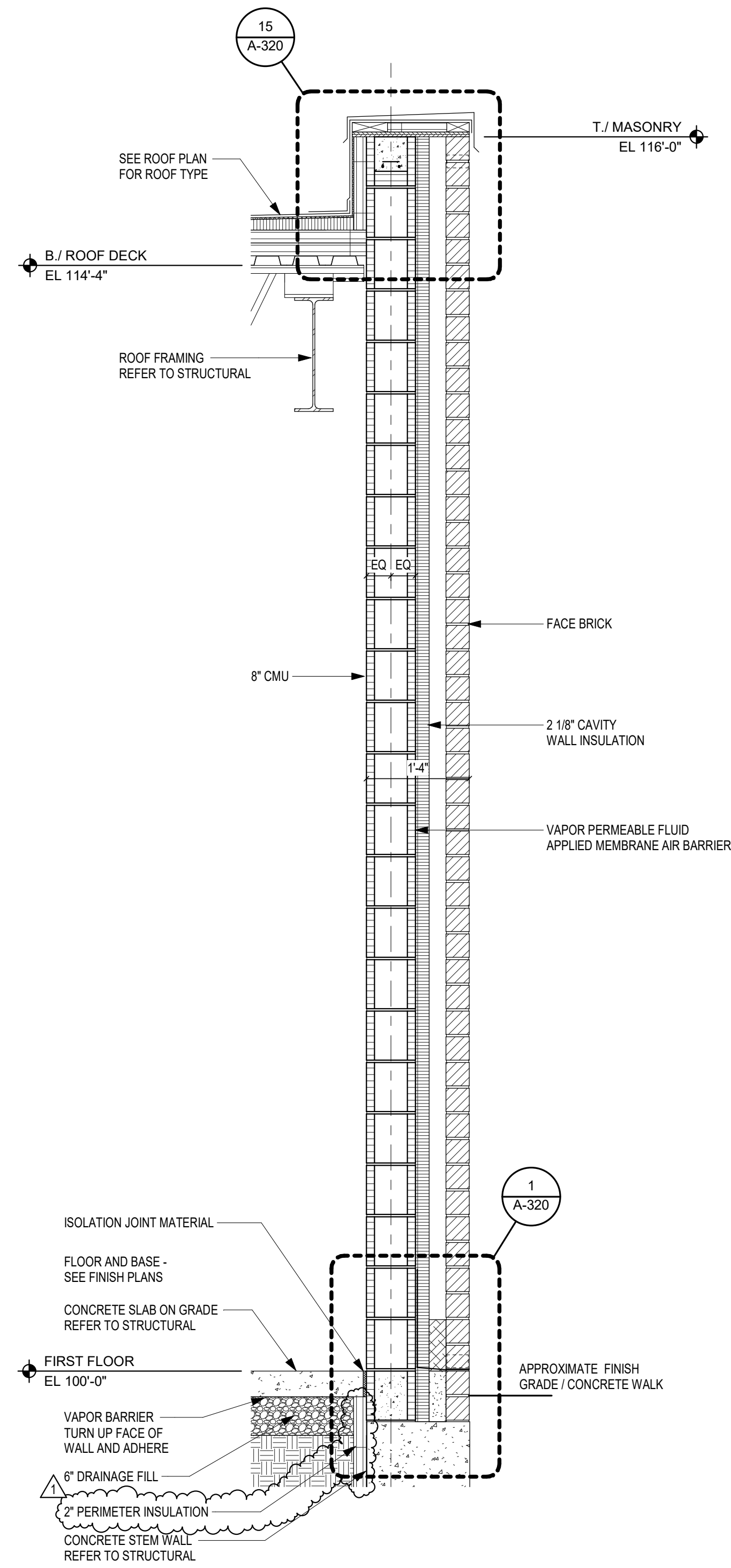
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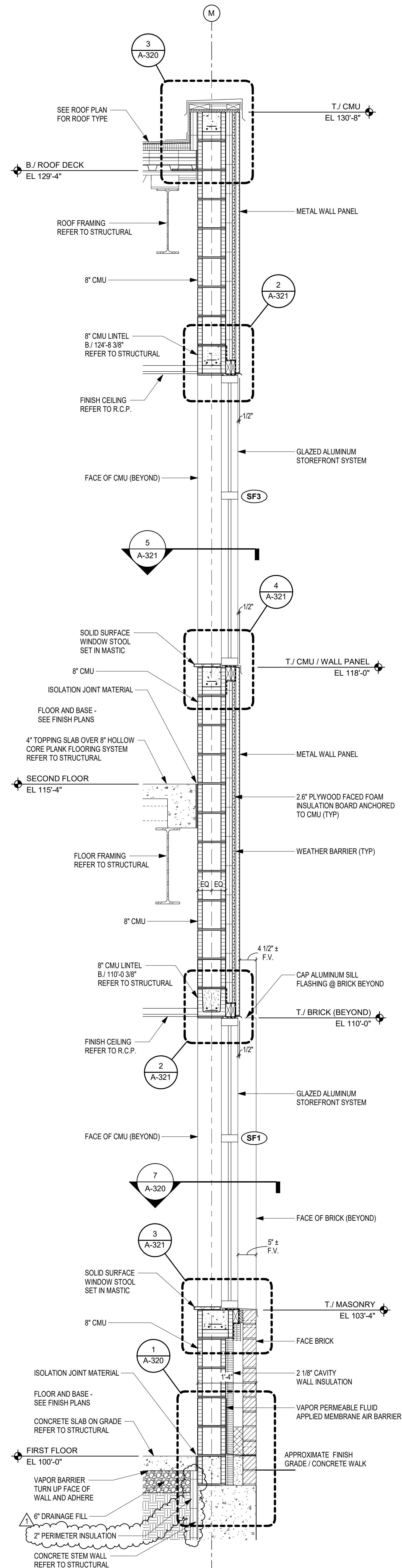
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SCALE: 3/4" = 1'-0"



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



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



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

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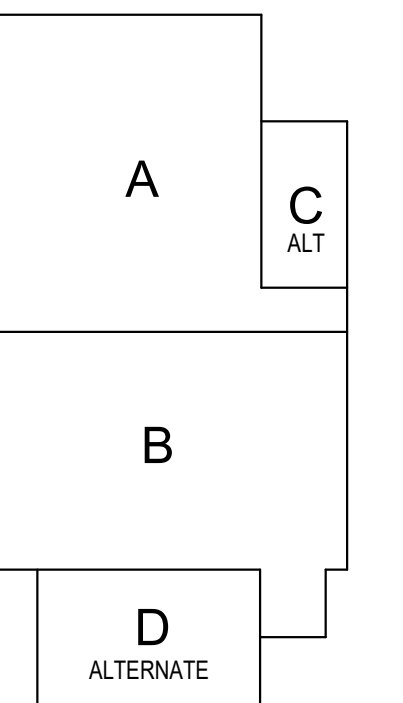
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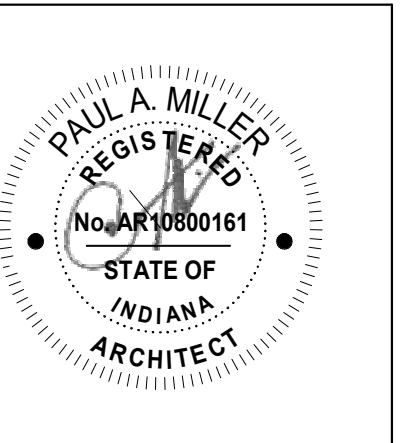
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### KEY PLAN

Construction Documents



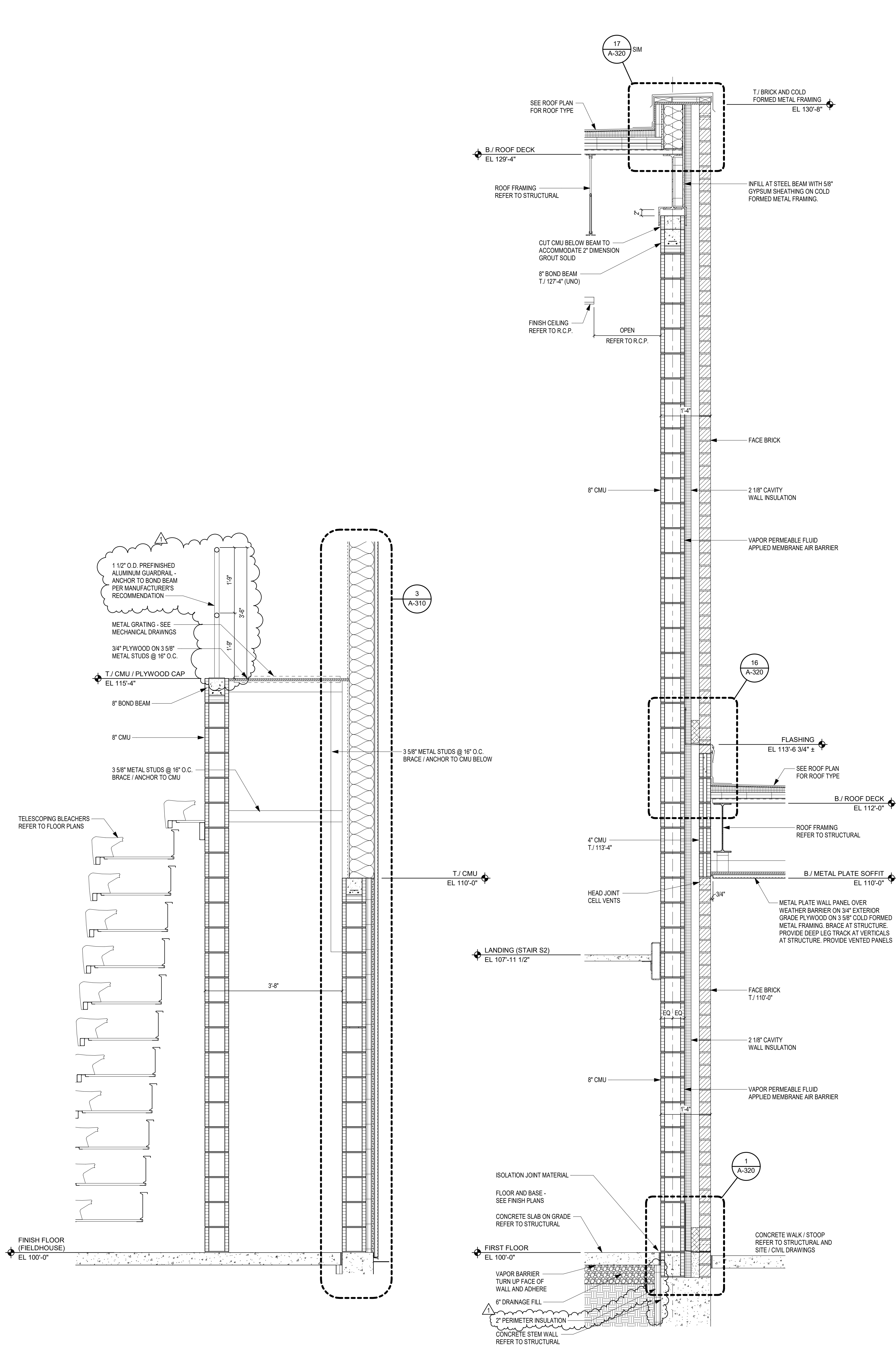
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DRAWN BY: MDM  
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PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

WALL SECTIONS

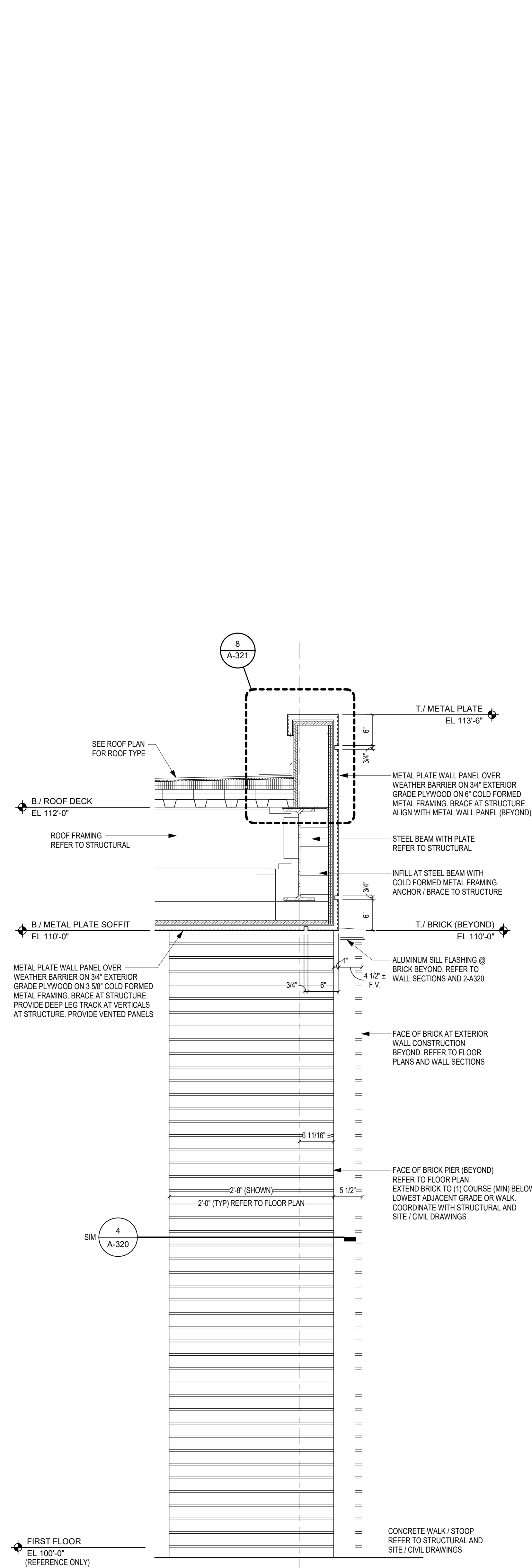
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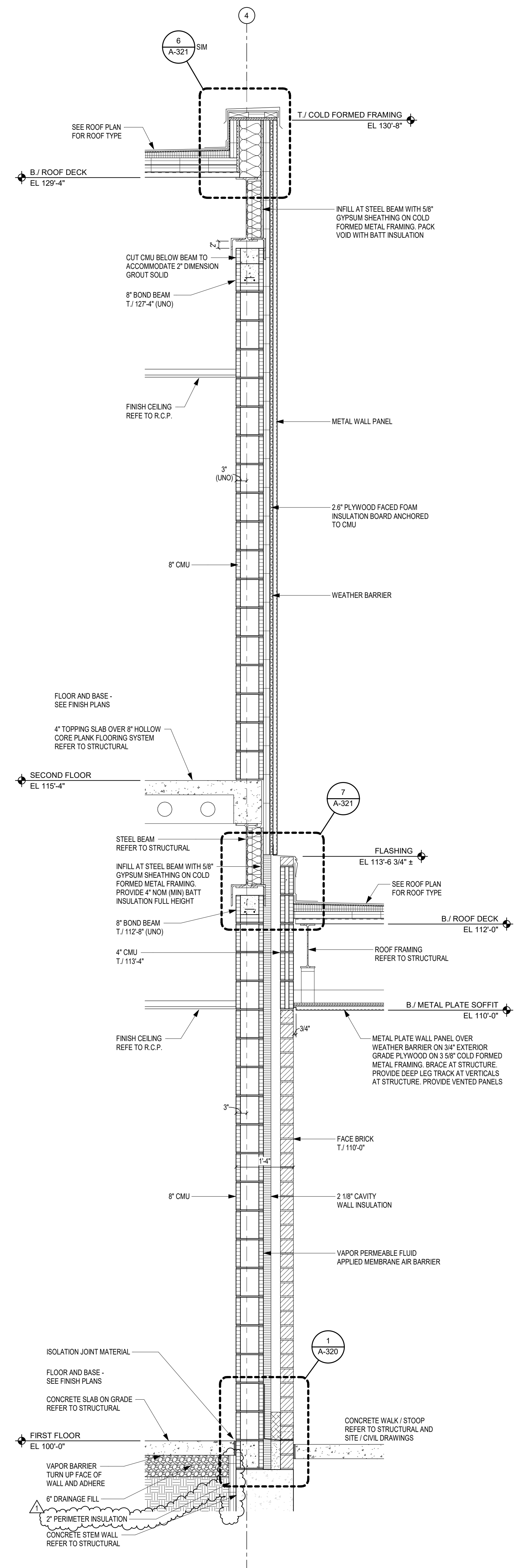


**4 WALL SECTION (ALTERNATE)**  
SCALE: 3/4" = 1'-0"

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



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



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

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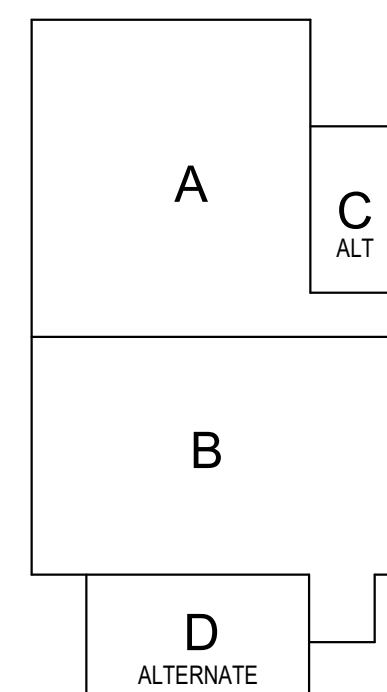
PENN-HARRIS-MADISON  
SCHOOL CORPORATION



ARCHITECT

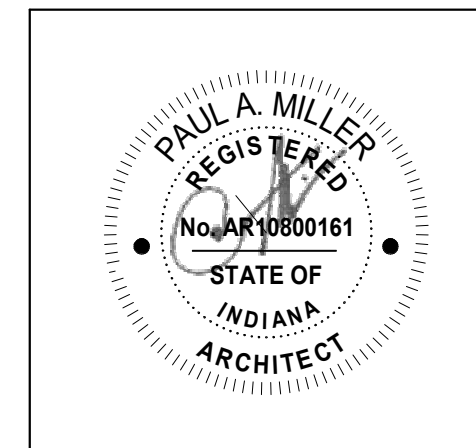
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### KEY PLAN

Construction Documents



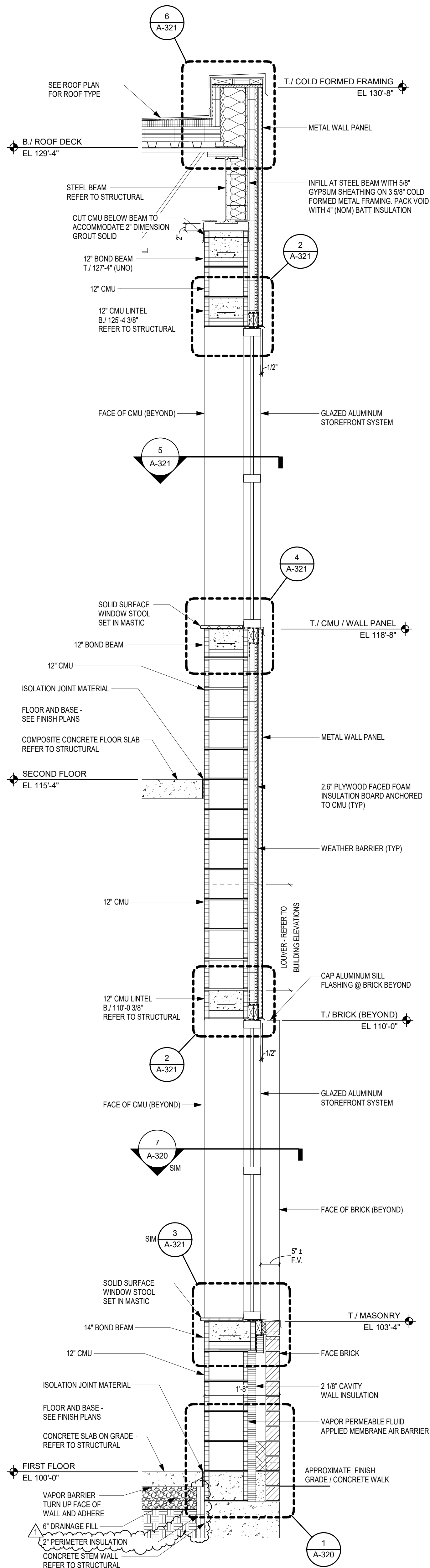
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PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

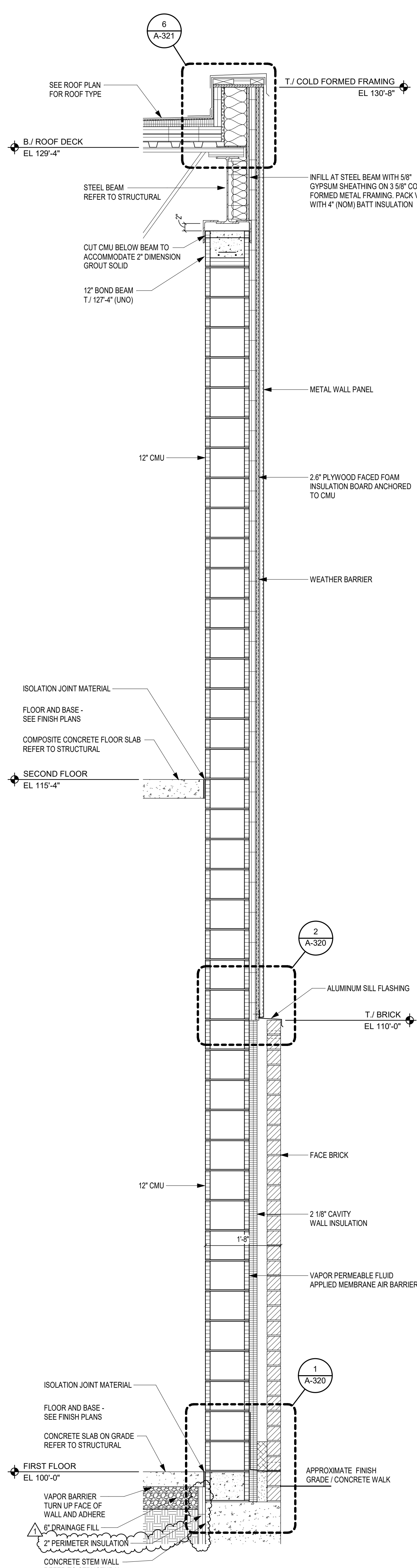
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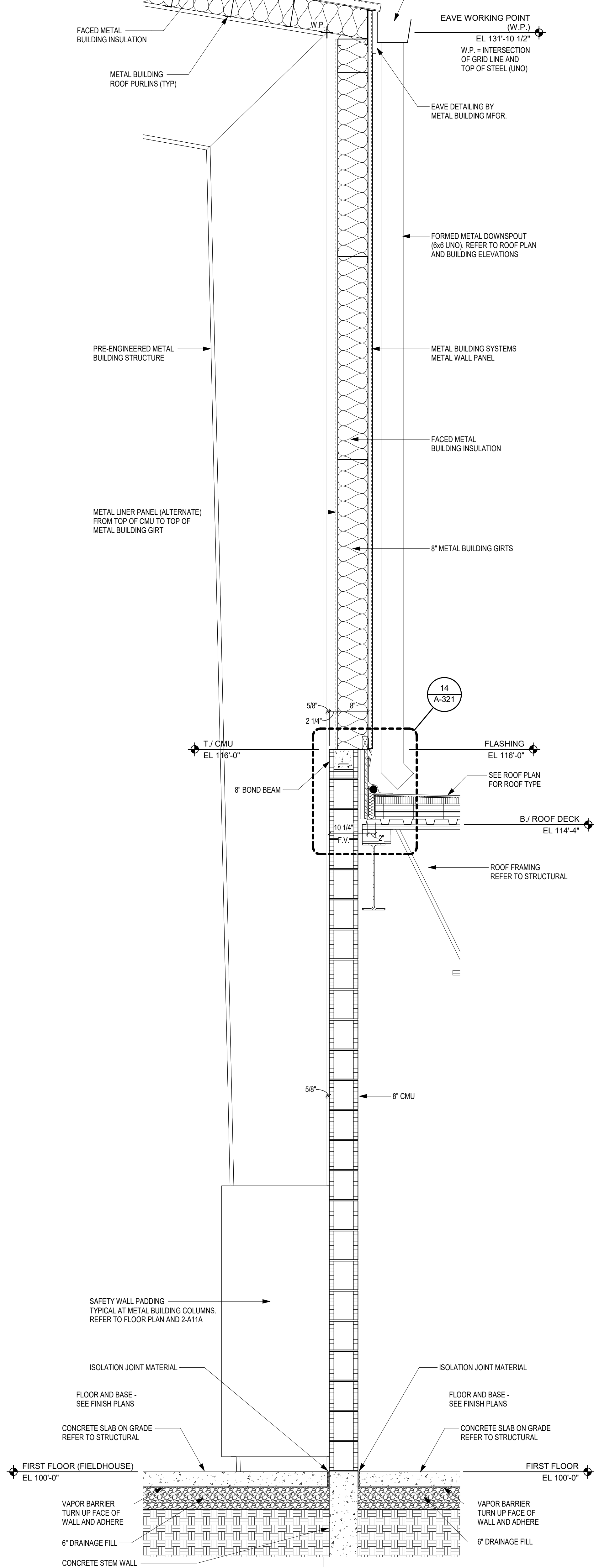
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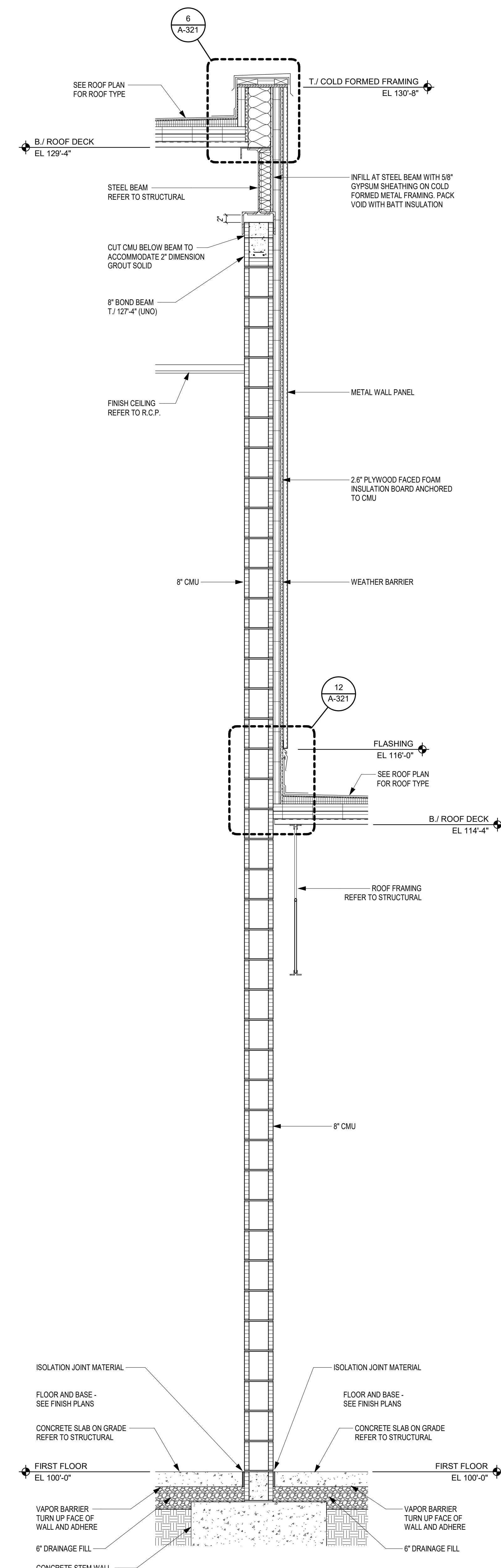
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SCALE: 3/4" = 1'-0"



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



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



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

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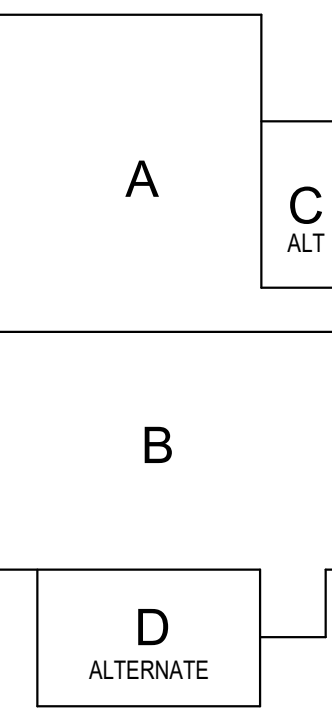
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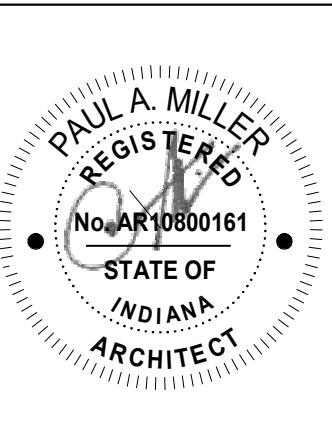
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



### KEY PLAN

Construction Documents



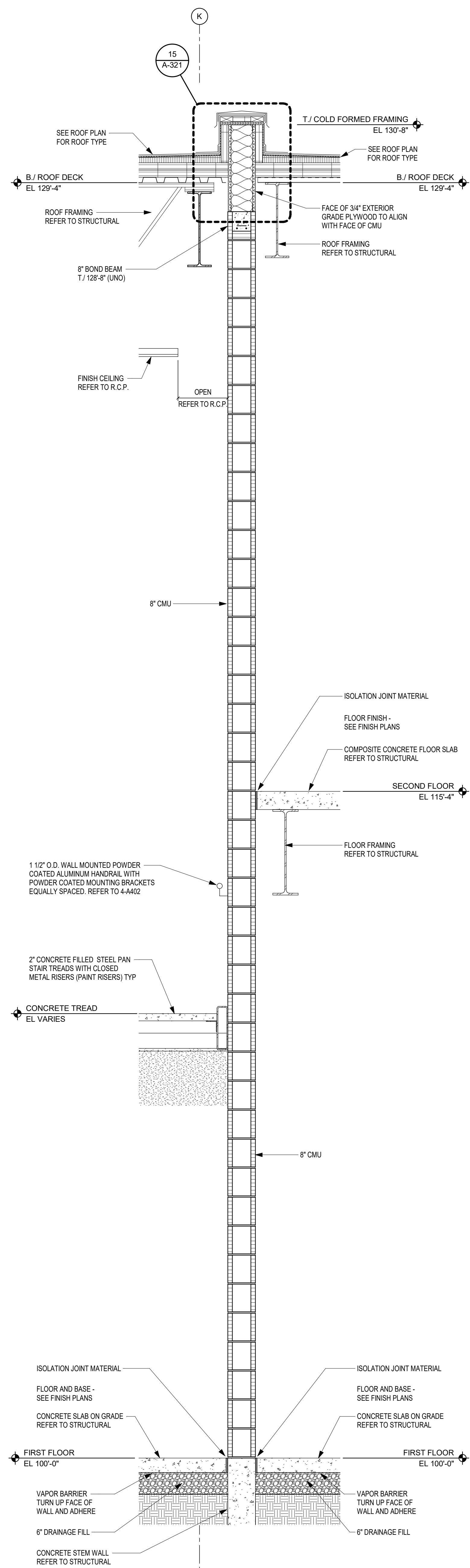
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DRAWN BY: MDM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

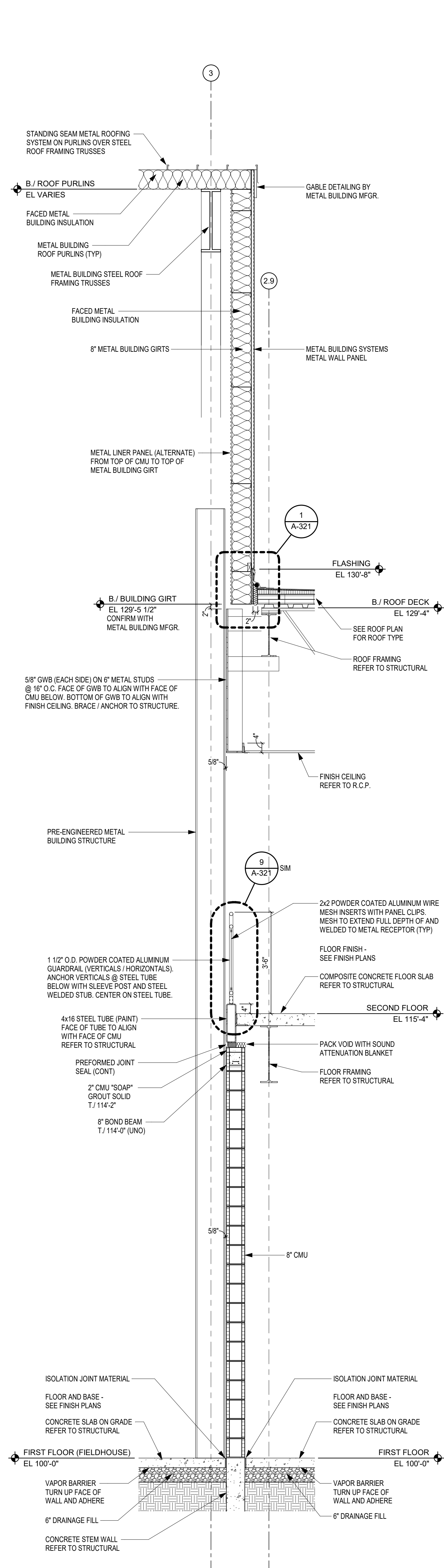
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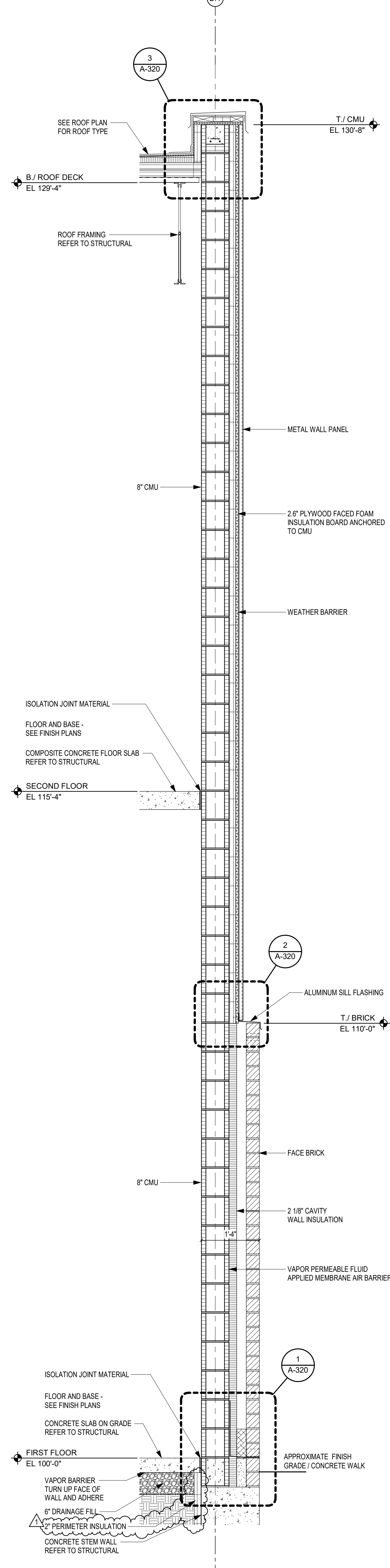
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**3 WALL SECTION (ALTERNATE)**  
SCALE: 3/4" = 1'-0"



**2 WALL SECTION (ALTERNATE)**  
SCALE: 1/2" = 1'-0"



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

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## PENN HIGH SCHOOL FIELDHOUSE

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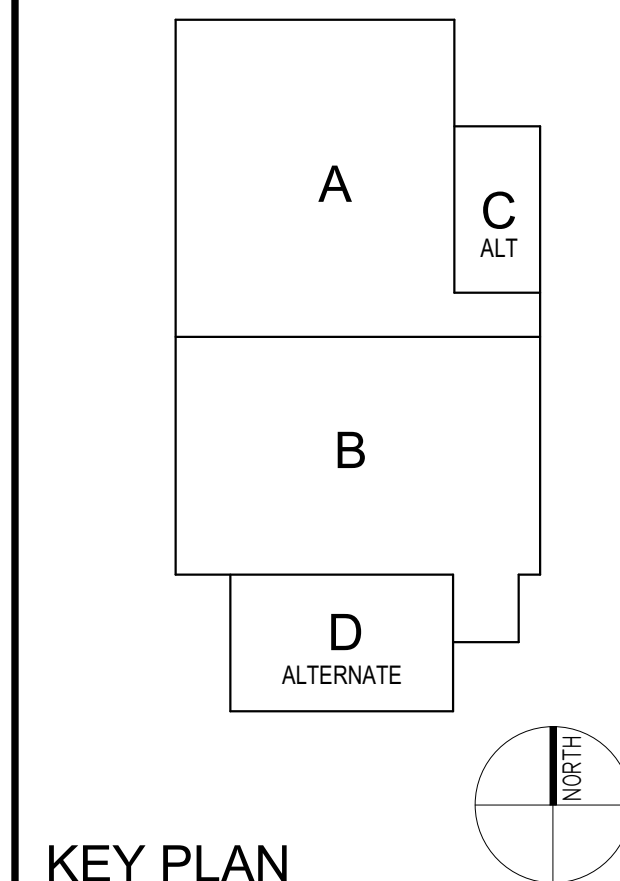
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

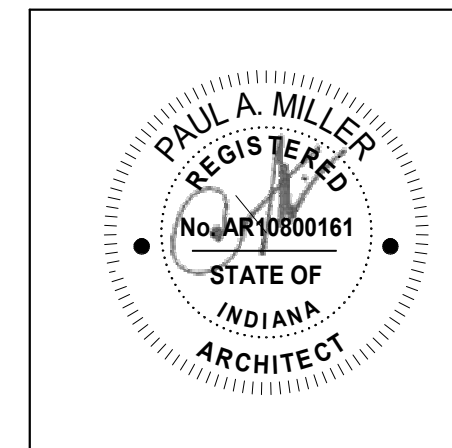
# FANNING HOWEY

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KEY PLAN

Construction Documents



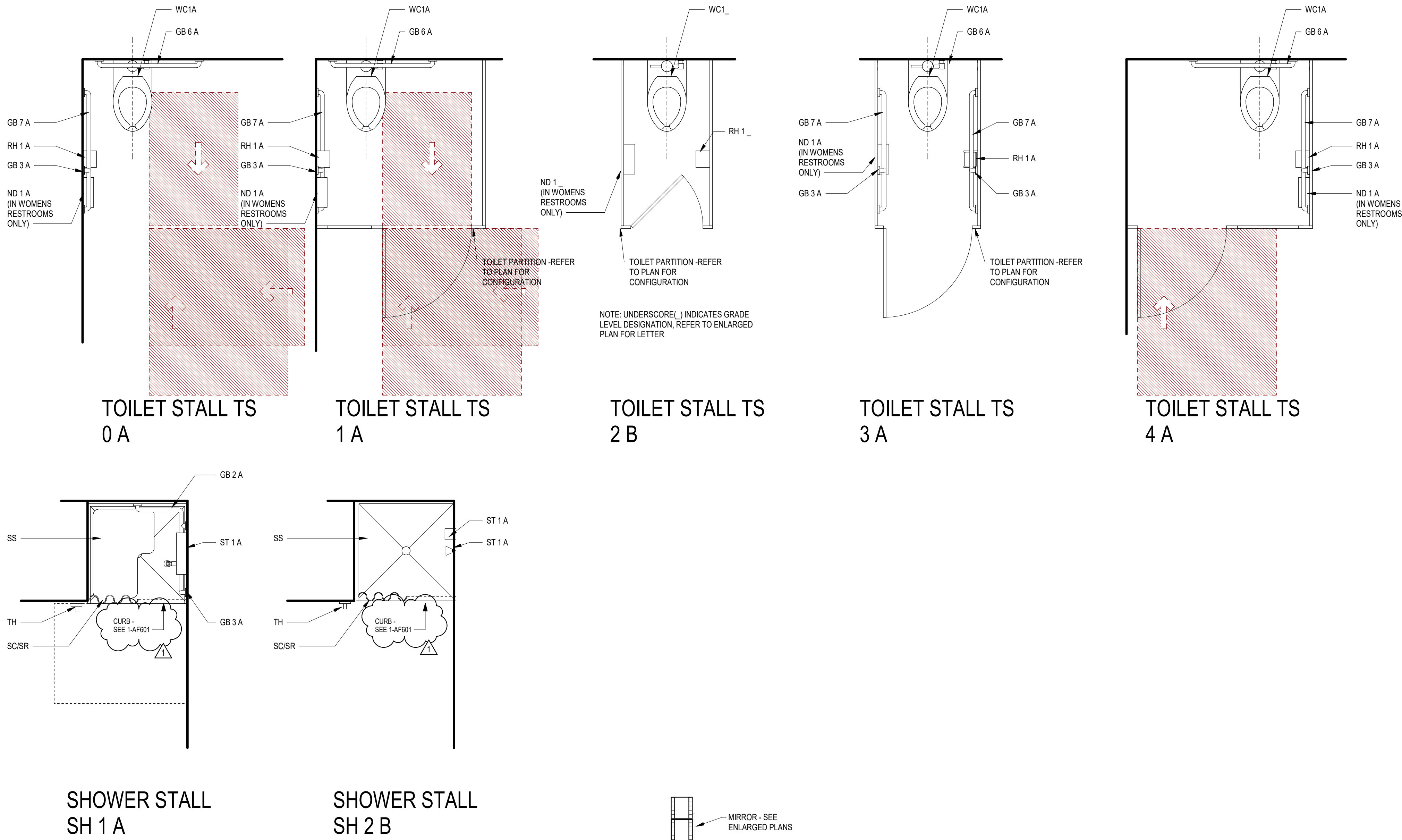
PROJECT MANAGER: MKS  
DRAWN BY: MDM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

WALL SECTIONS

# A-315

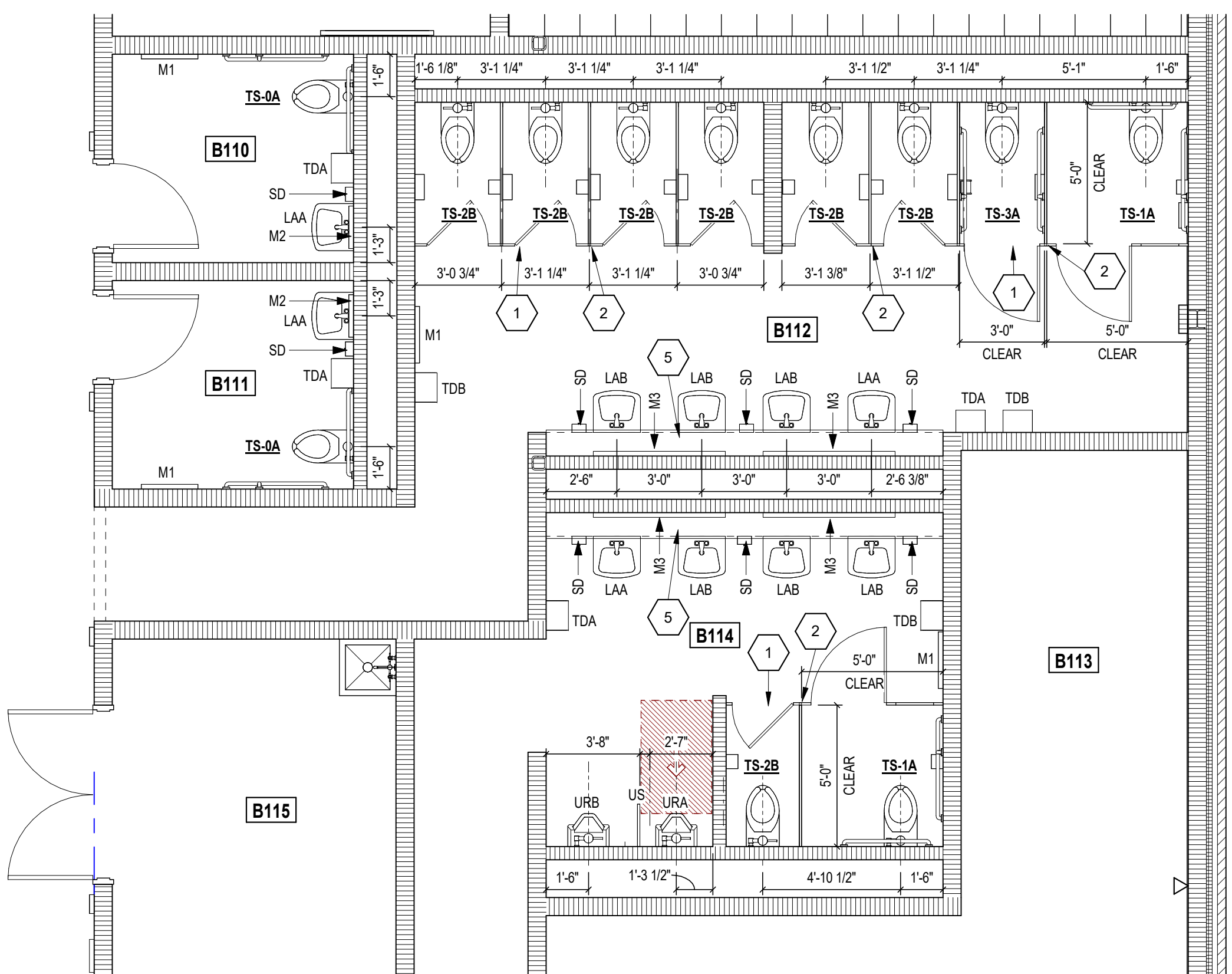




## LEGEND - TOILET AND SHOWER STALL

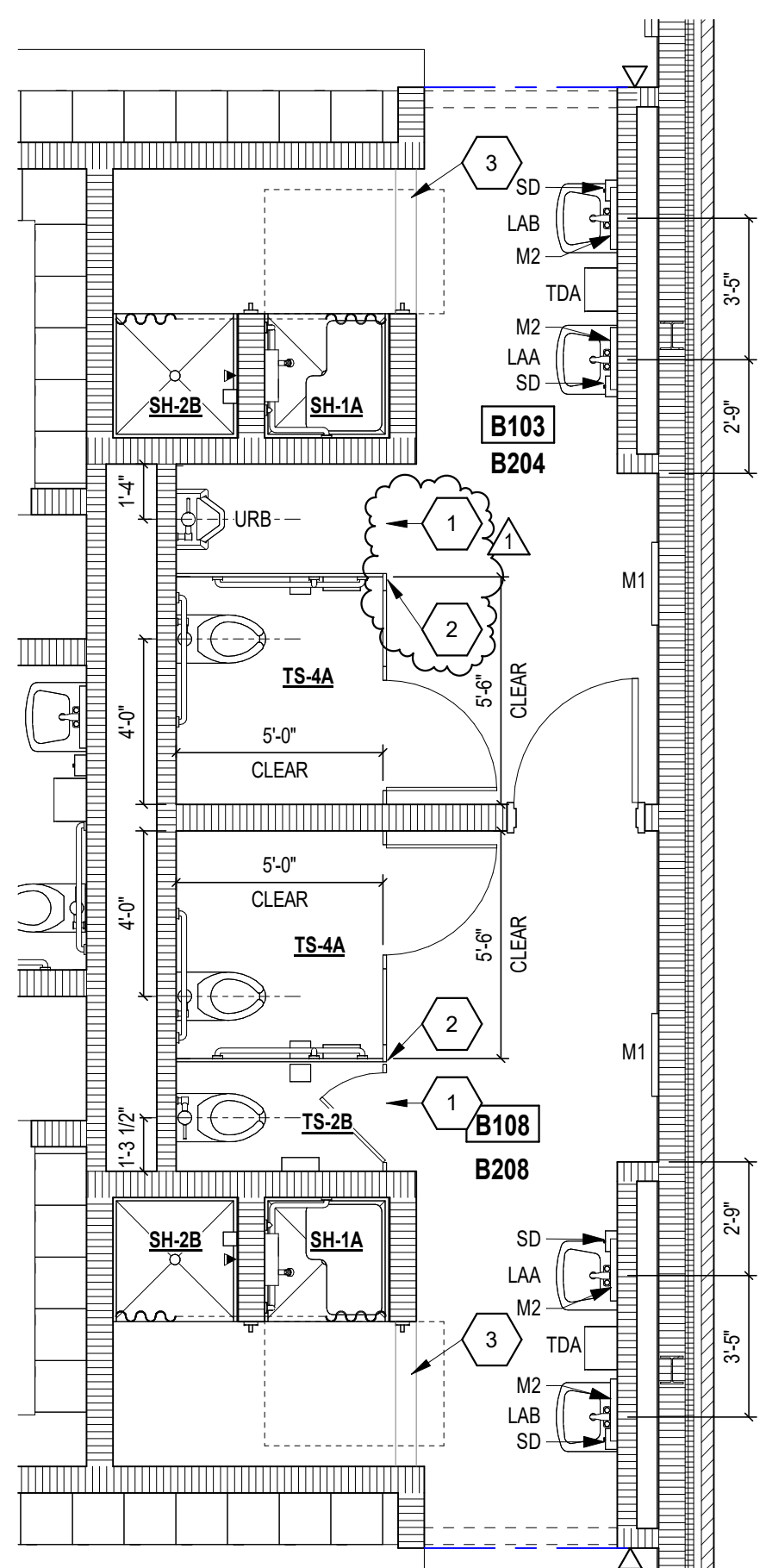
## 6 TYPICAL LAV SHELF

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



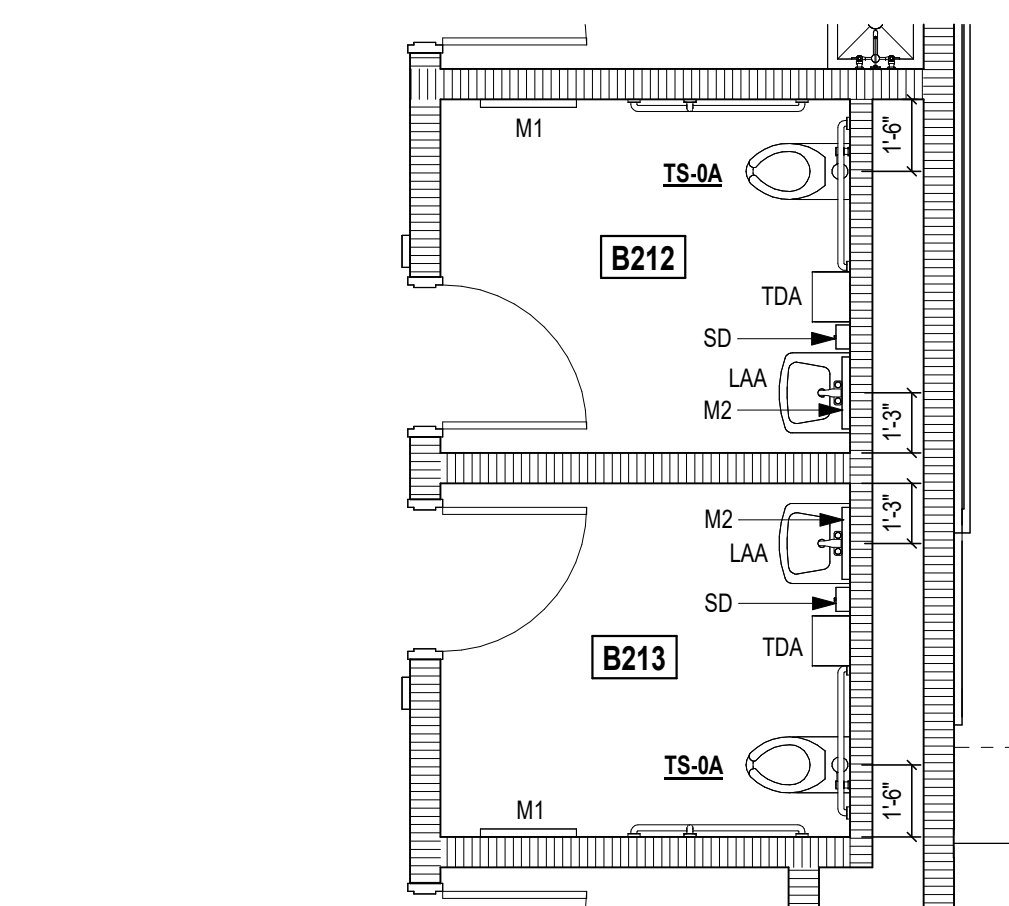
## 1 ROOMS B110 B111 B112 B114

SCALE: 1/4" = 1'-0"



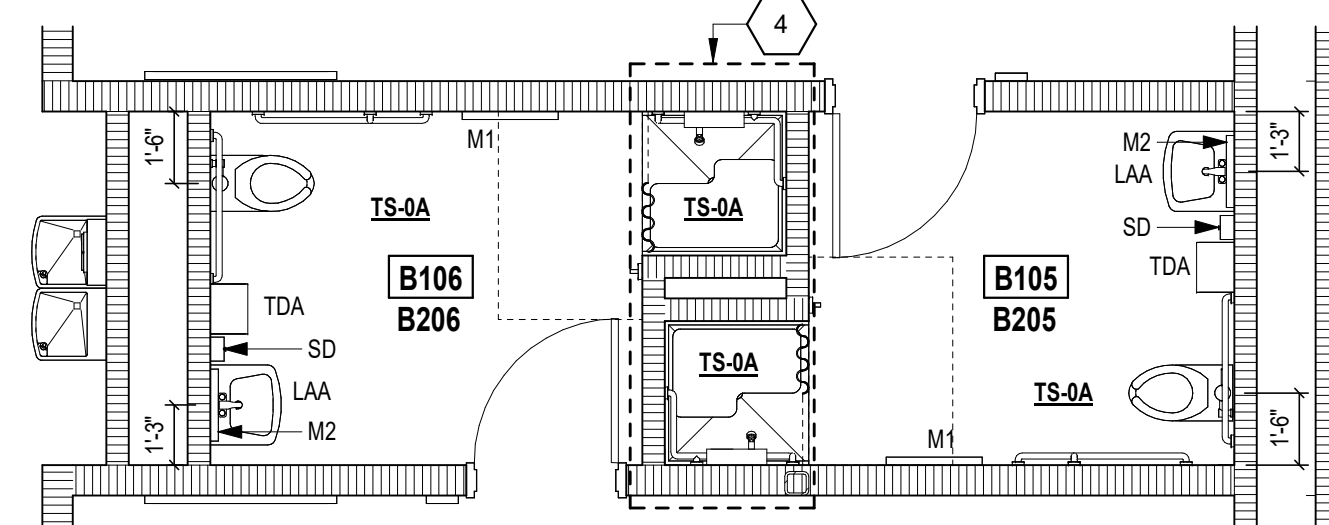
## 2 ROOMS B104 B108

SCALE: 1/4" = 1'-0" ALSO ALTERNATE 2ND FLOOR ROOMS B204 AND B208



## 3 ROOMS B212 B213

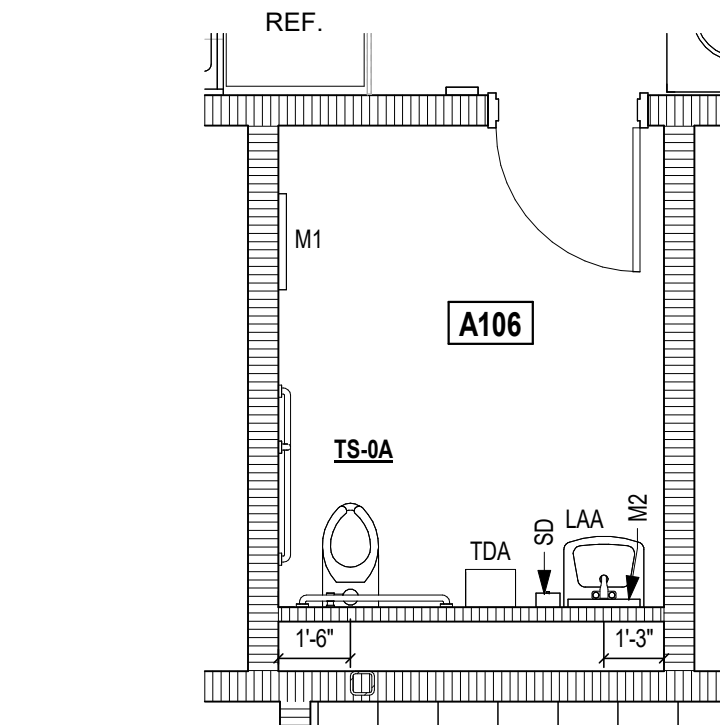
SCALE: 1/4" = 1'-0"



## 4 ROOMS B105 B106

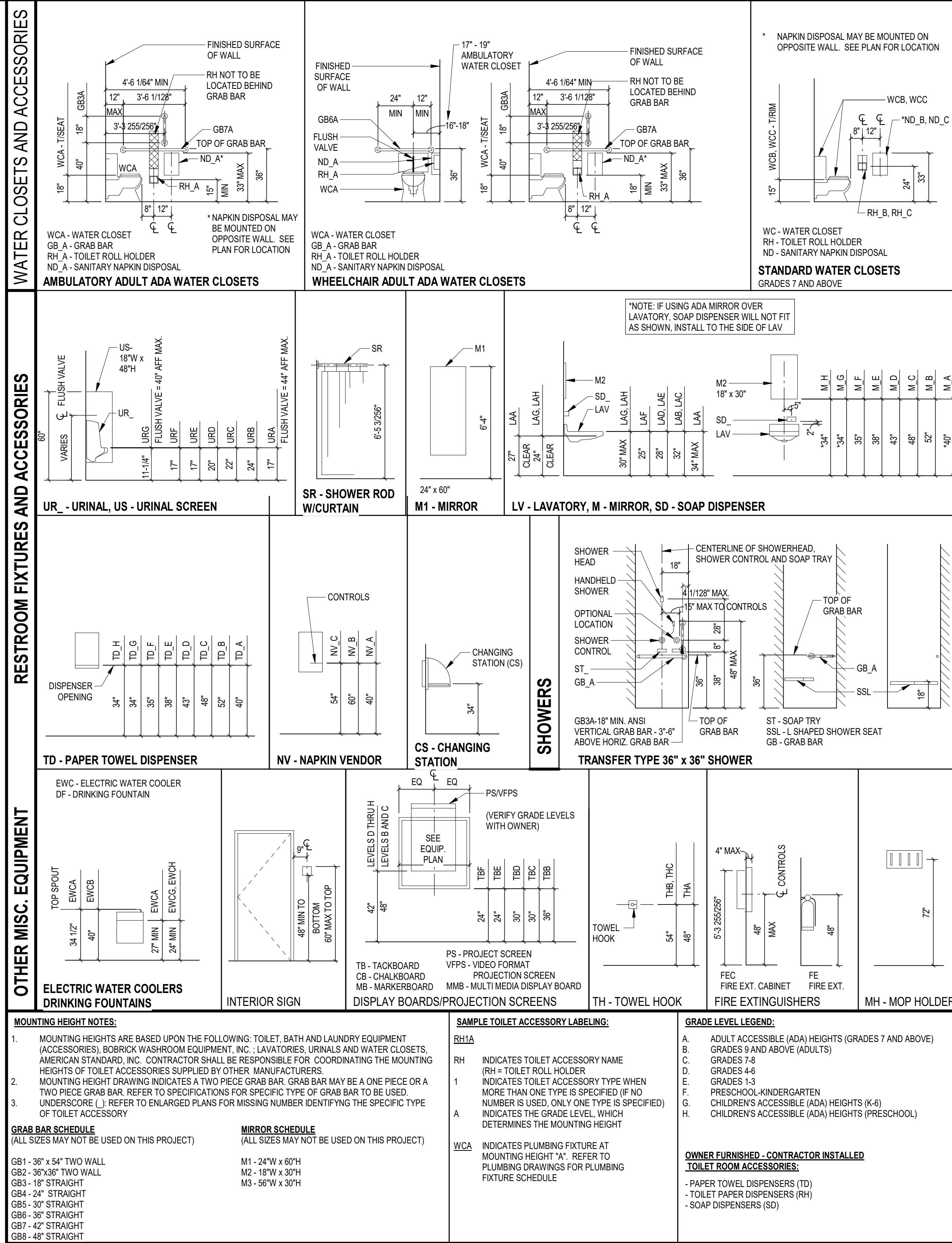
SCALE: 1/4" = 1'-0"

ALSO ALTERNATE 2ND FLOOR ROOMS B205 AND B206



## 5 ROOM A106

SCALE: 1/4" = 1'-0"



## WATER CLOSETS AND ACCESSORIES

## RESTROOM FIXTURES AND ACCESSORIES

## OTHER MISC. EQUIPMENT

## LEGEND - WATER CLOSET AND ACCESSORIES

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## PENN-HARRIS-MADISON SCHOOL CORPORATION



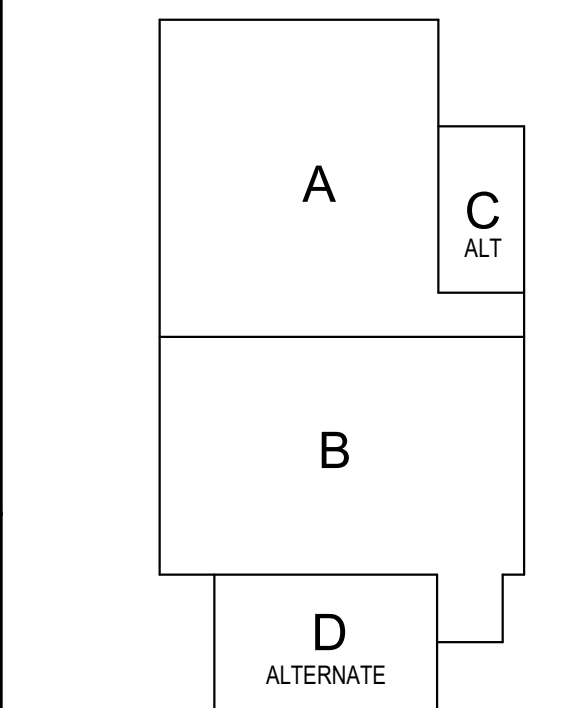
ARCHITECT

## FANNING HOWE

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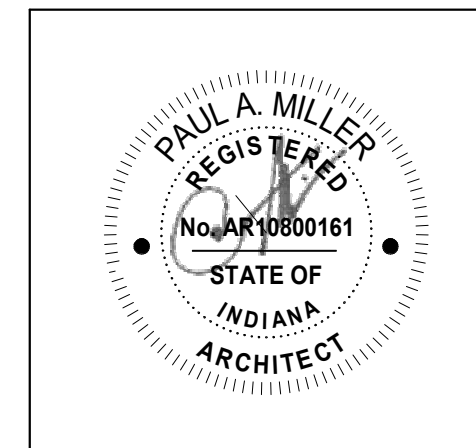
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## KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: Author

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ENLARGED TOILET ROOM PLANS & MOUNTING HEIGHTS LEGEND

## A-401

# PENN HIGH SCHOOL FIELDHOUSE

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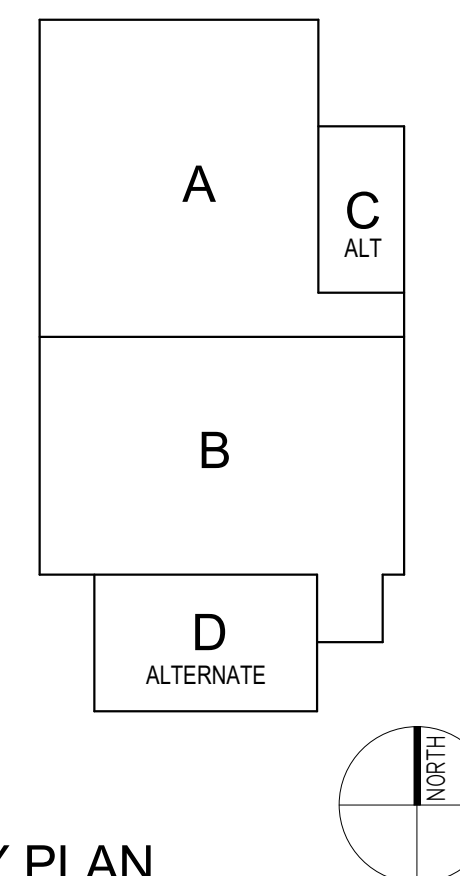
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

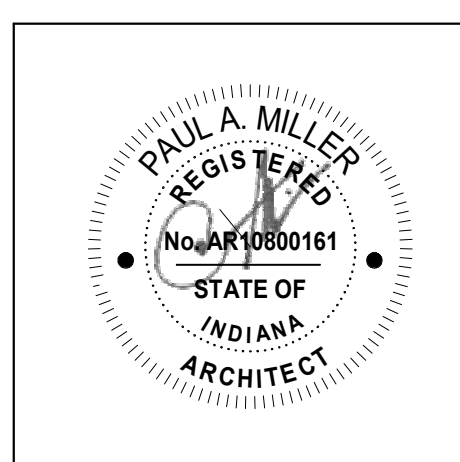
# FANNING HOWEY

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## KEY PLAN

Construction Documents

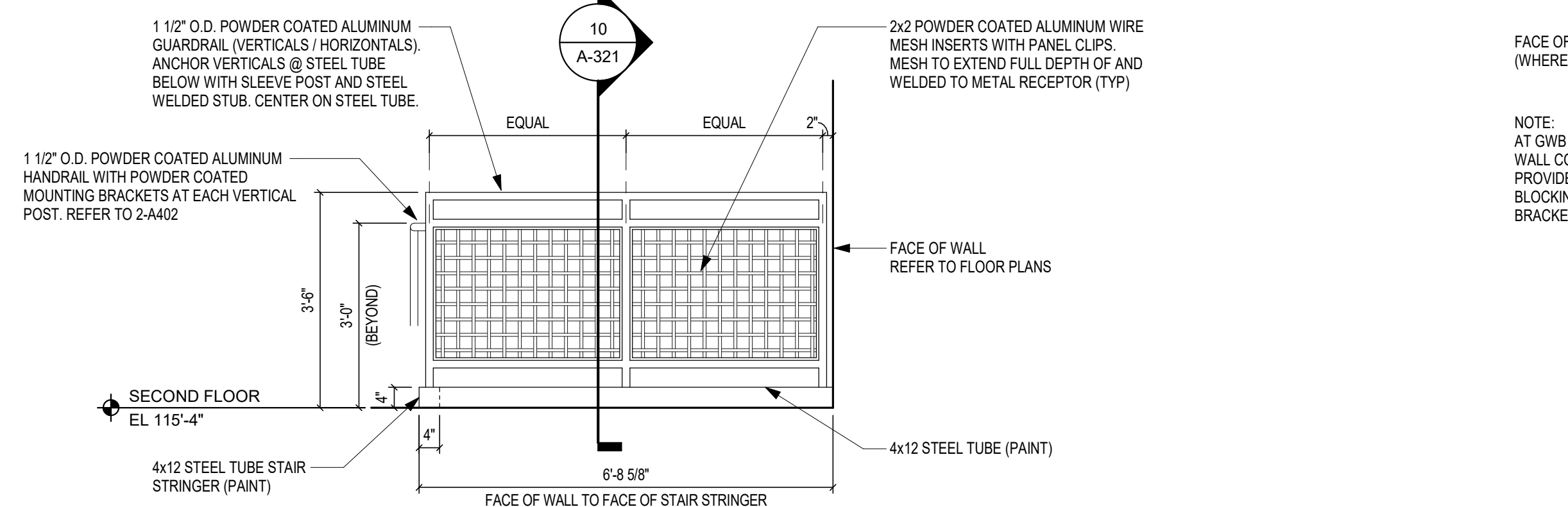


PROJECT MANAGER: MKS  
DRAWN BY: MDM  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

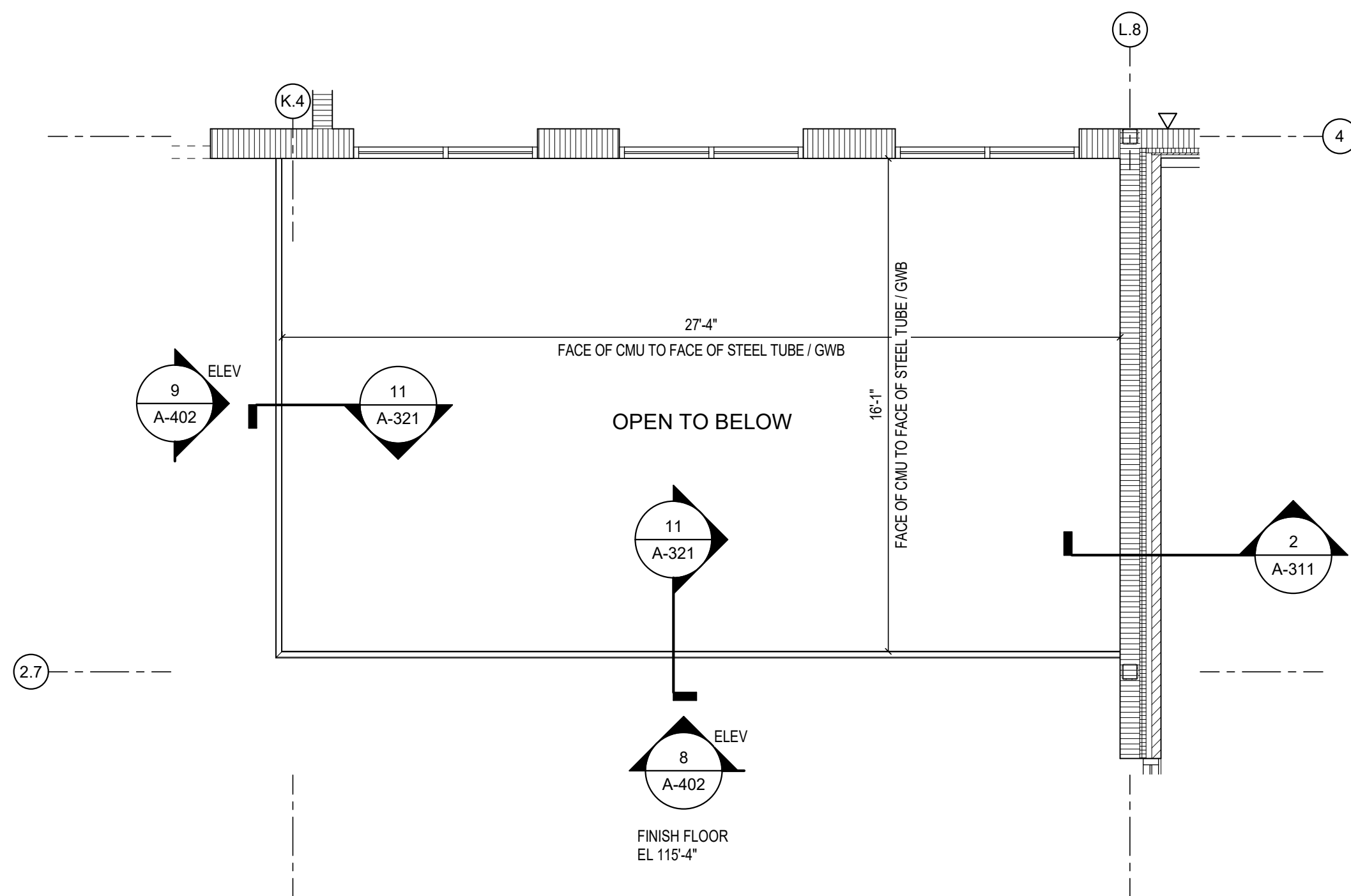
REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

ENLARGED PLANS

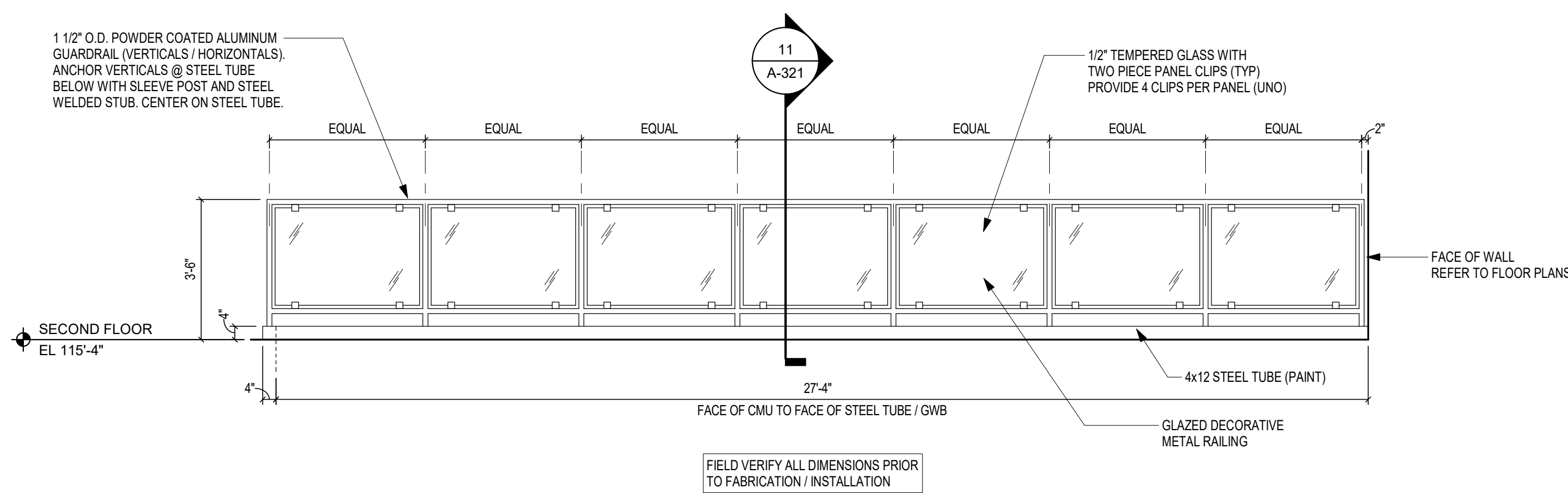
# A-402



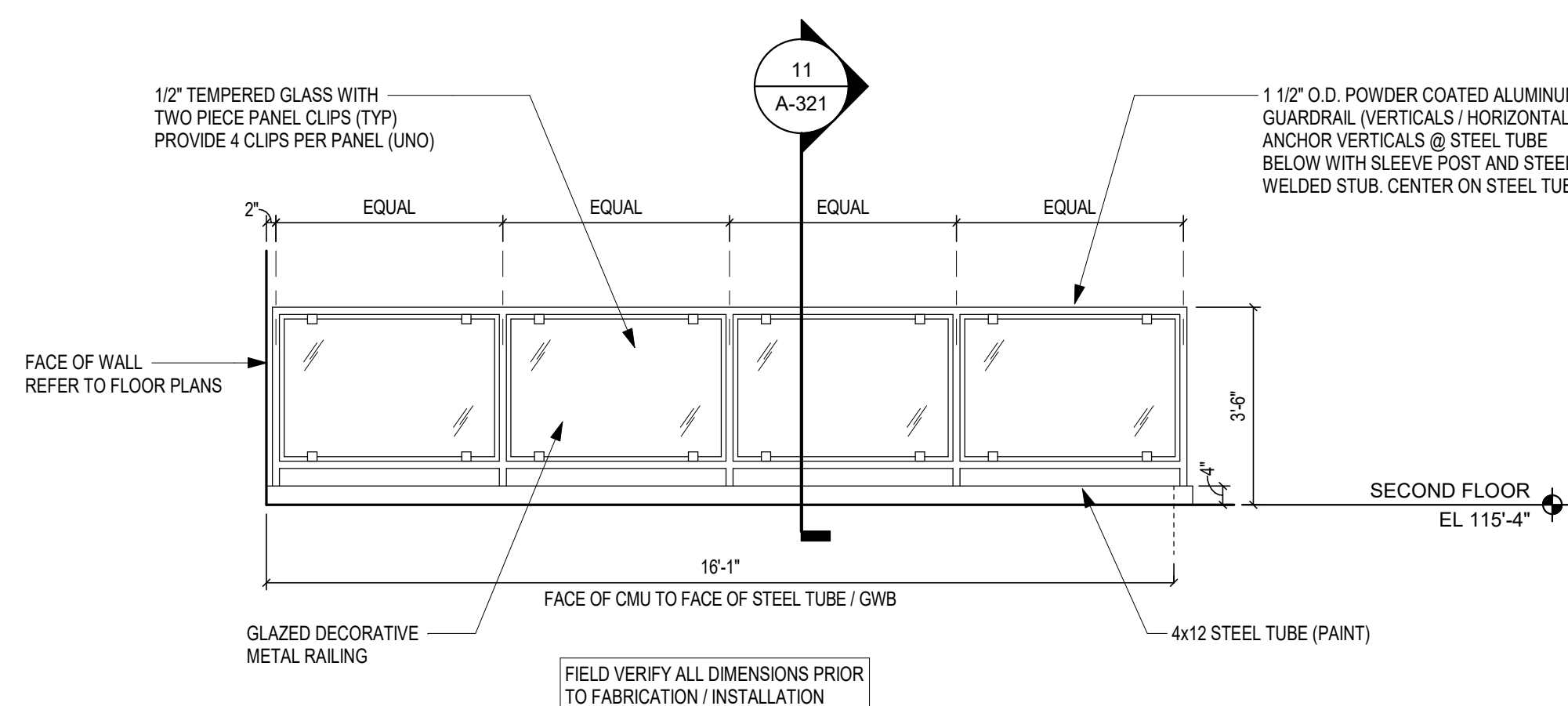
**6 ELEVATION - GUARDRAIL (STAIR S-1)**  
SCALE: 1/2" = 1'-0"



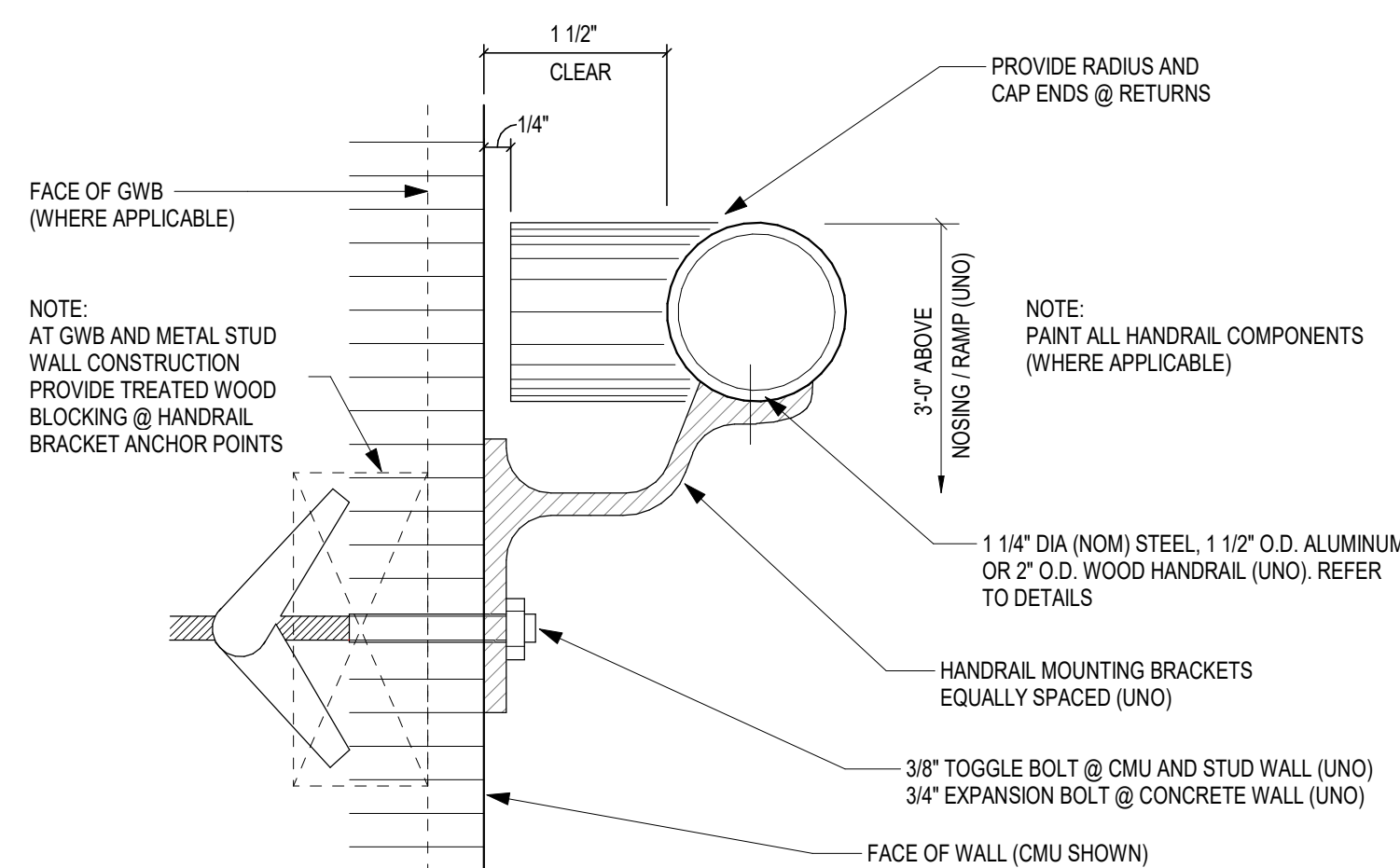
**7 PLAN - GLASS GUARDRAIL (B217)**  
SCALE: 1/4" = 1'-0"



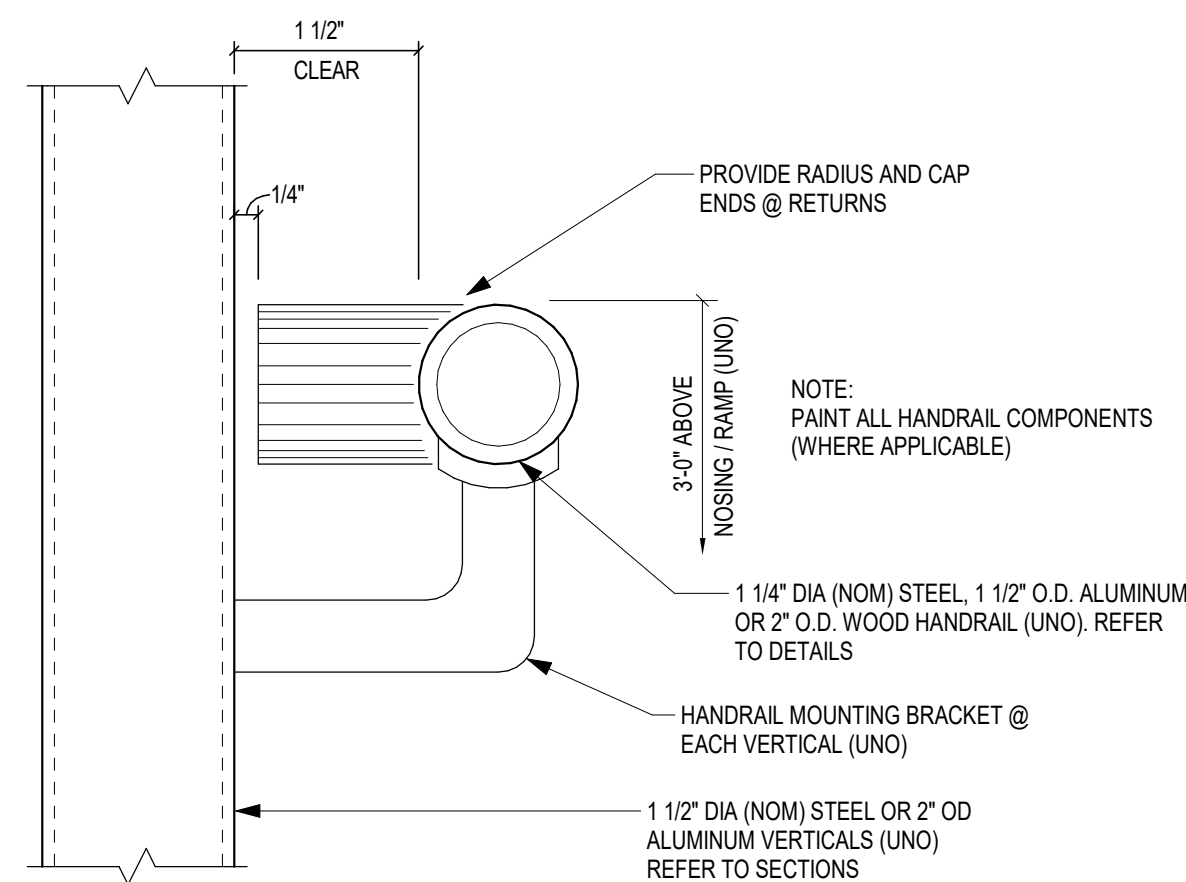
**8 ELEVATION - GUARDRAIL (B217)**  
SCALE: 3/8" = 1'-0"



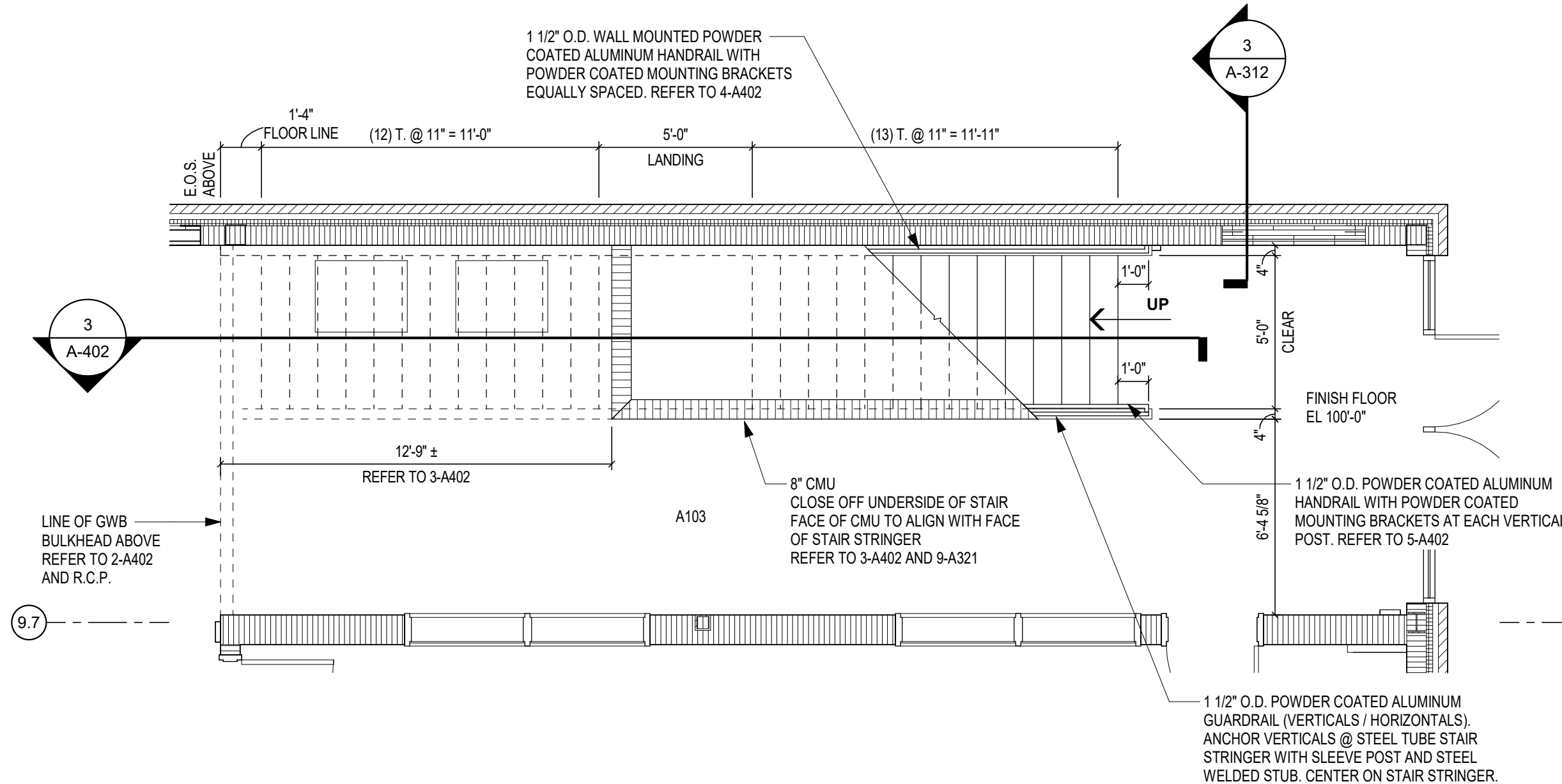
**9 ELEVATION - GUARDRAIL (B217)**  
SCALE: 3/8" = 1'-0"



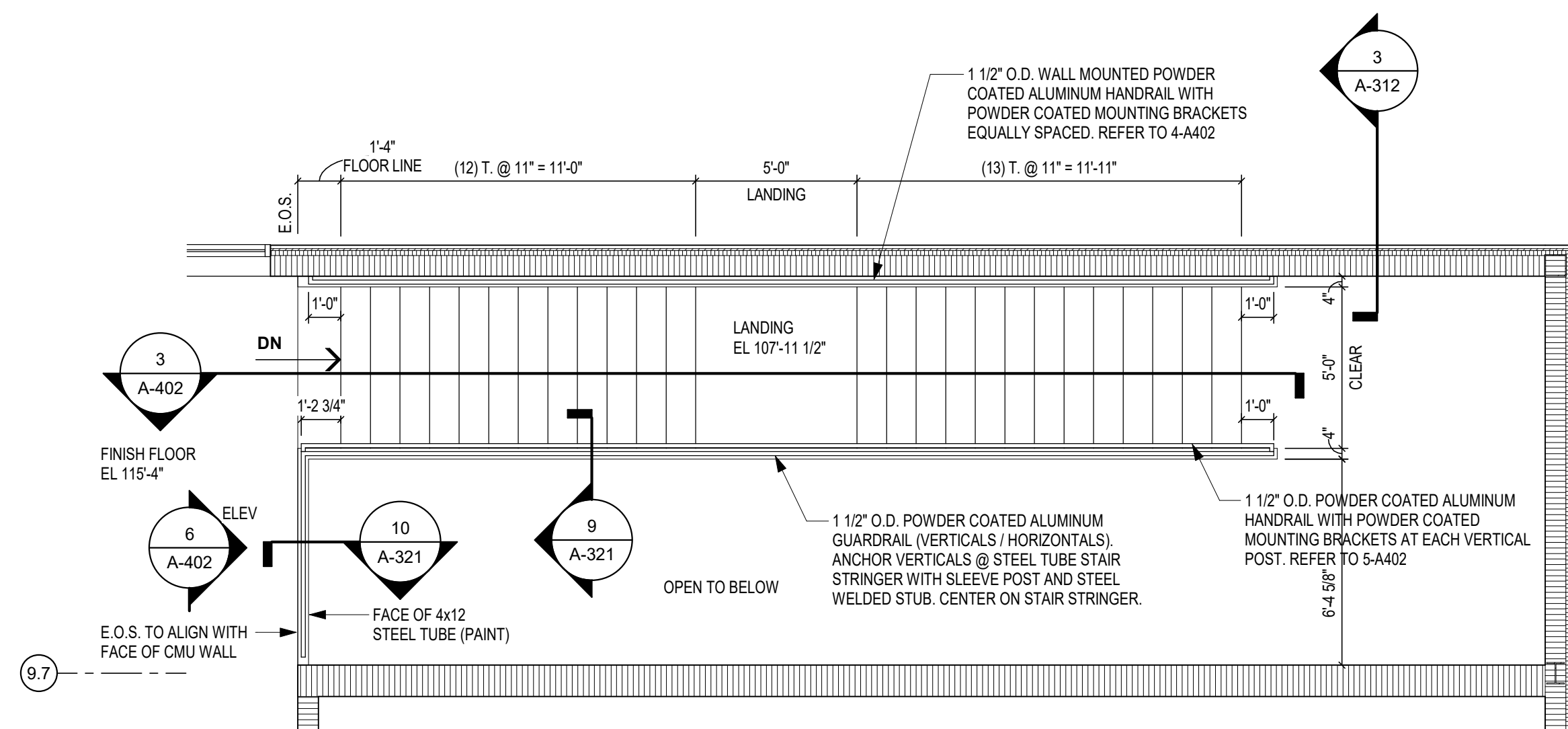
**4 HANDRAIL - WALL MOUNT**  
SCALE: 1 1/2" = 1'-0"



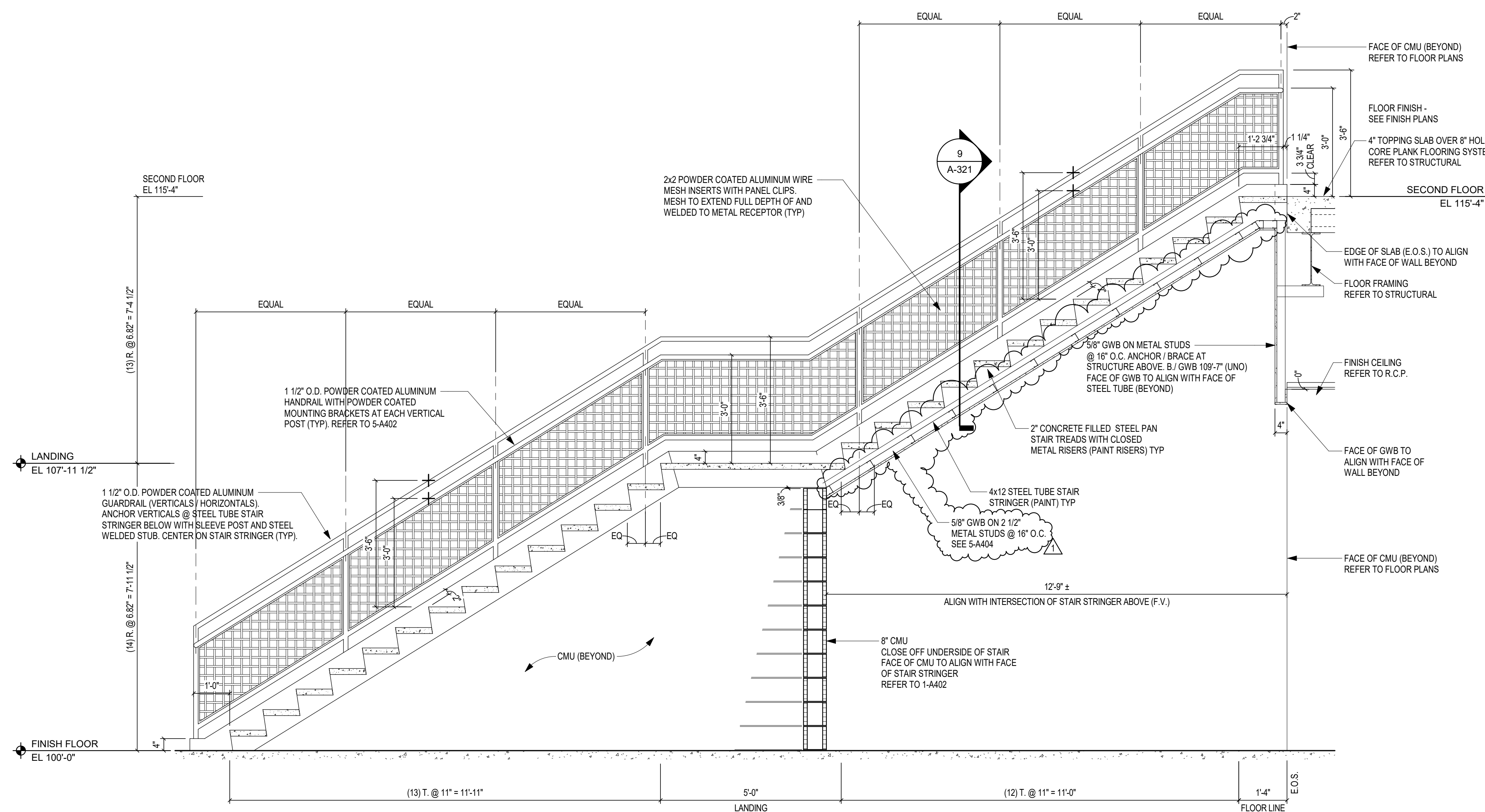
**5 HANDRAIL - VERTICAL METAL MOUNT**  
SCALE: 6" = 1'-0"



**1 PLAN - STAIR S-1 (FIRST FLOOR)**  
SCALE: 1/4" = 1'-0"



**2 PLAN - STAIR S-1 (SECOND FLOOR)**  
SCALE: 1/4" = 1'-0"



**3 SECTION - STAIR S-1**  
SCALE: 1/2" = 1'-0"

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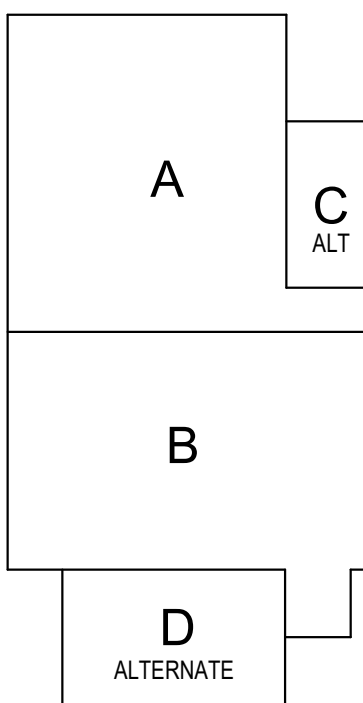
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ARCHITECT

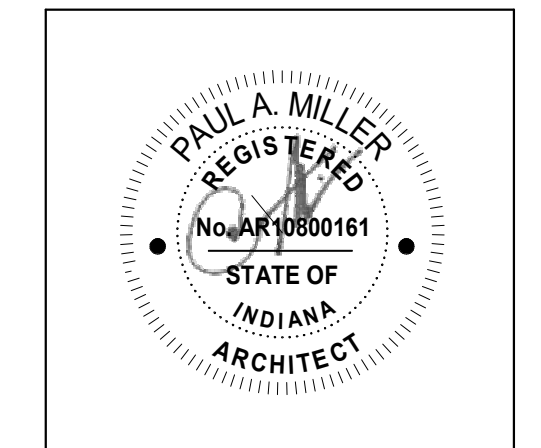
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### KEY PLAN

Construction Documents

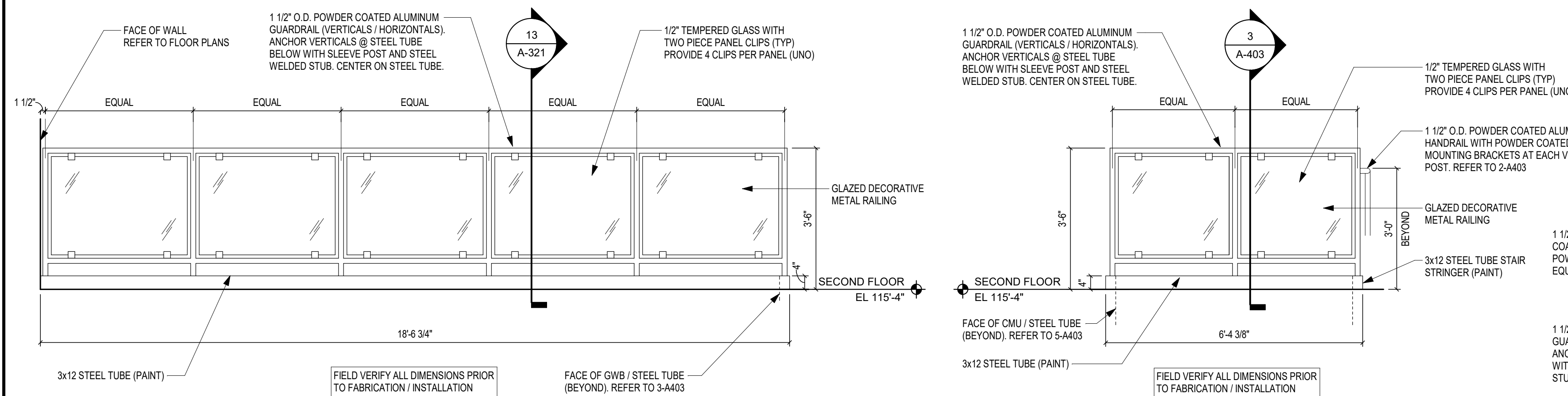


PROJECT MANAGER: MKS  
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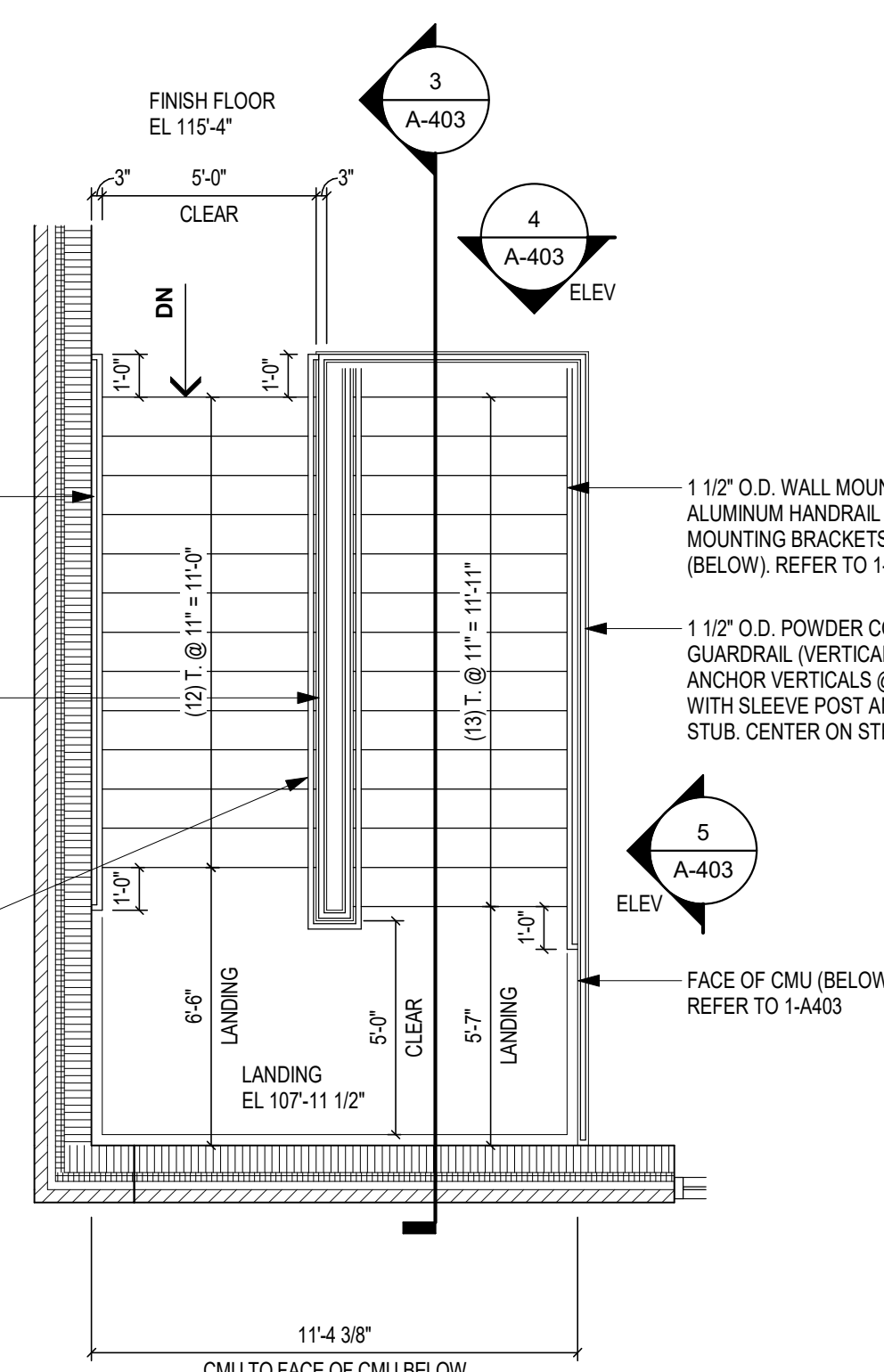
ENLARGED PLANS

# A-403

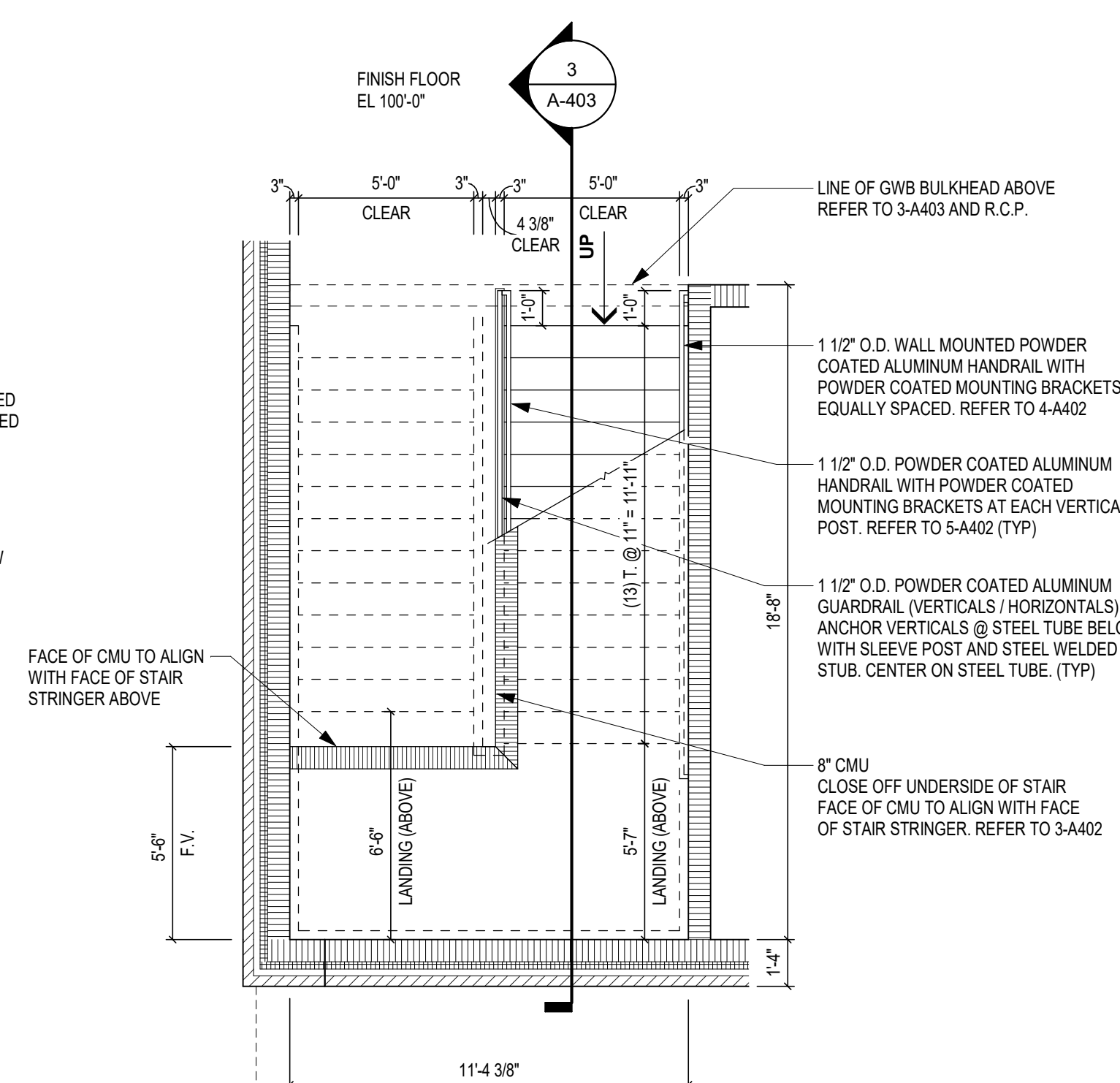


**5 ELEVATION - GUARDRAIL (STAIR S-2)**  
SCALE: 1/2" = 1'-0"

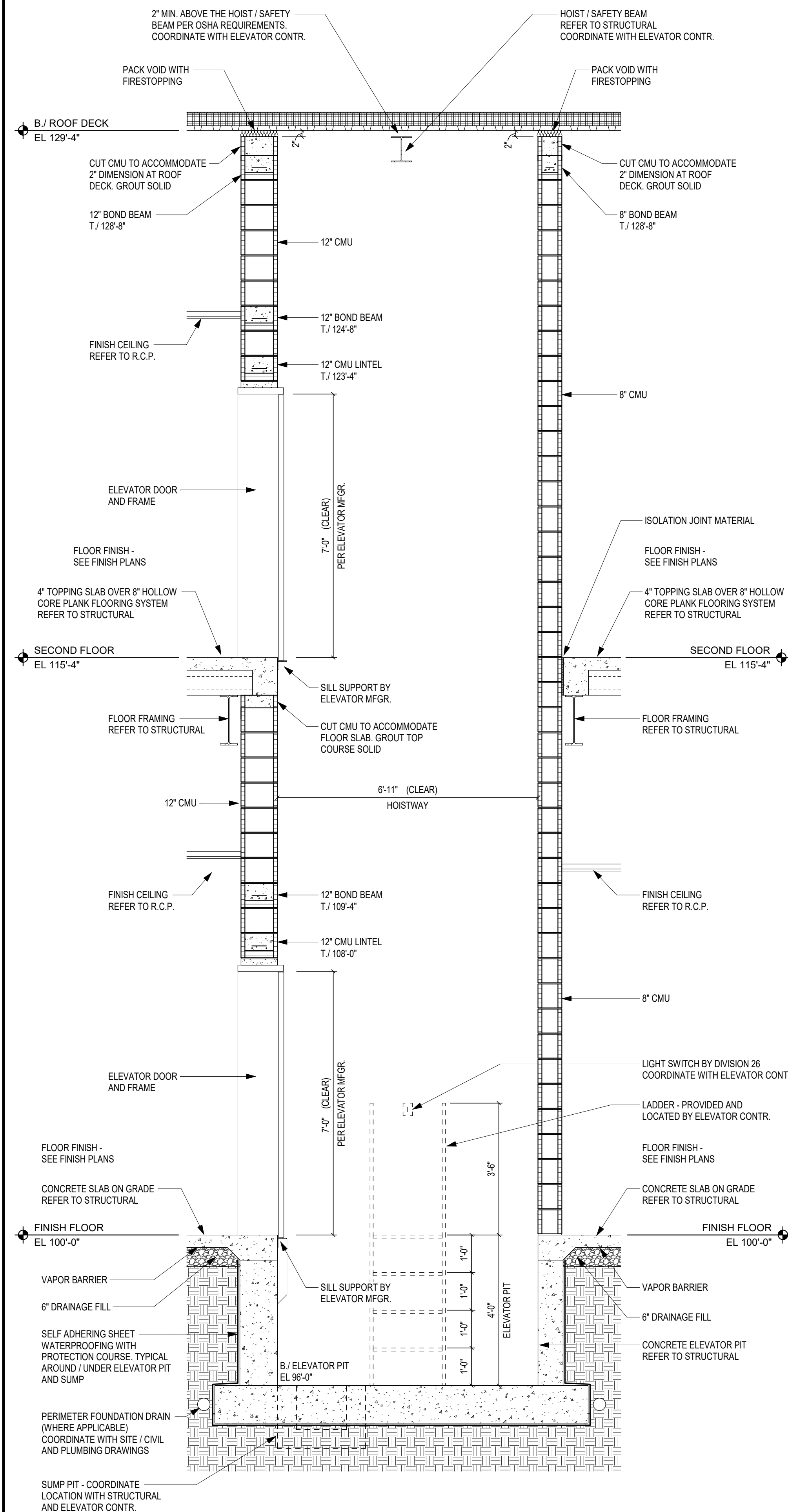
**4 ELEVATION - GUARDRAIL (STAIR S-2)**  
SCALE: 1/2" = 1'-0"



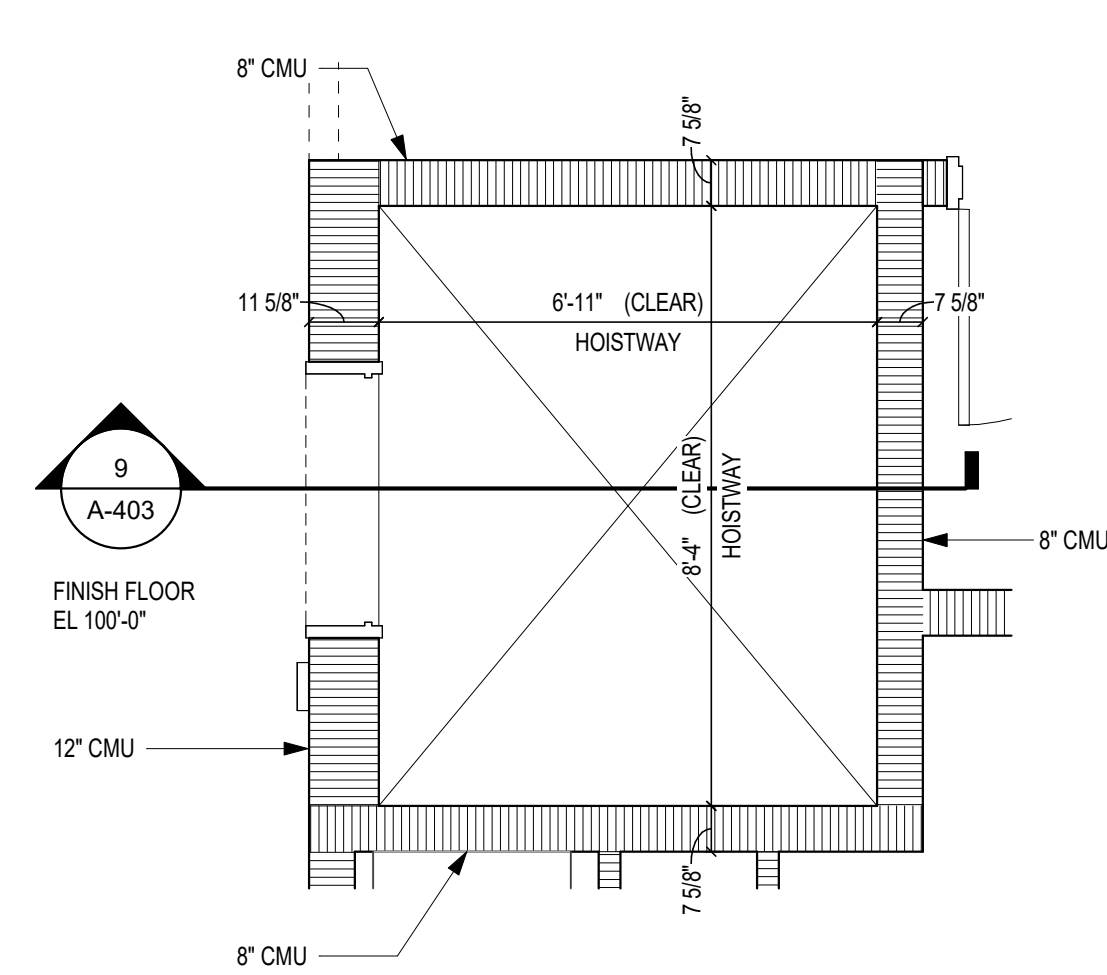
**2 PLAN - STAIR S-2 (SECOND FLOOR)**  
SCALE: 1/4" = 1'-0"



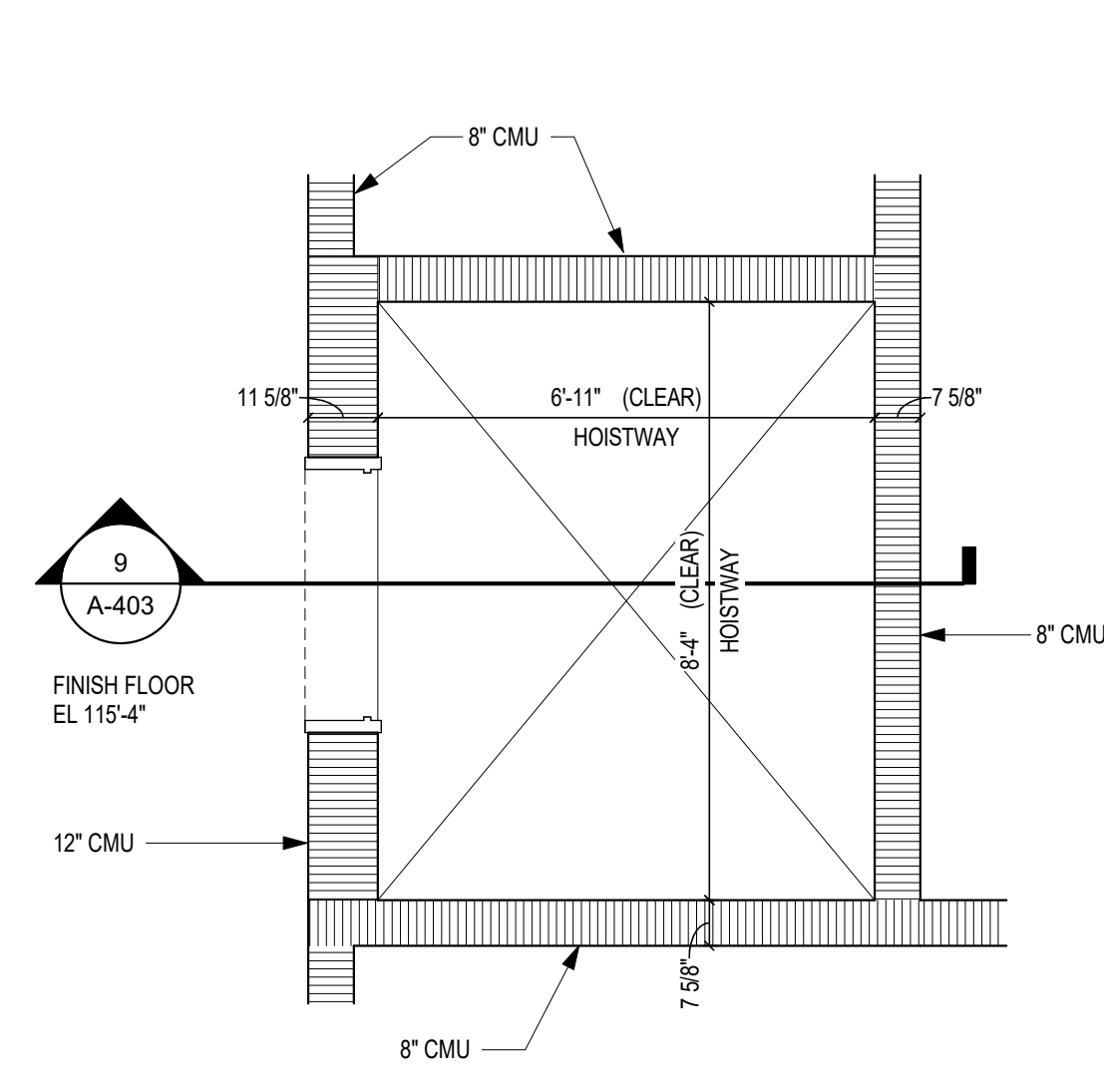
**1 PLAN - STAIR S-2 (FIRST FLOOR)**  
SCALE: 1/4" = 1'-0"



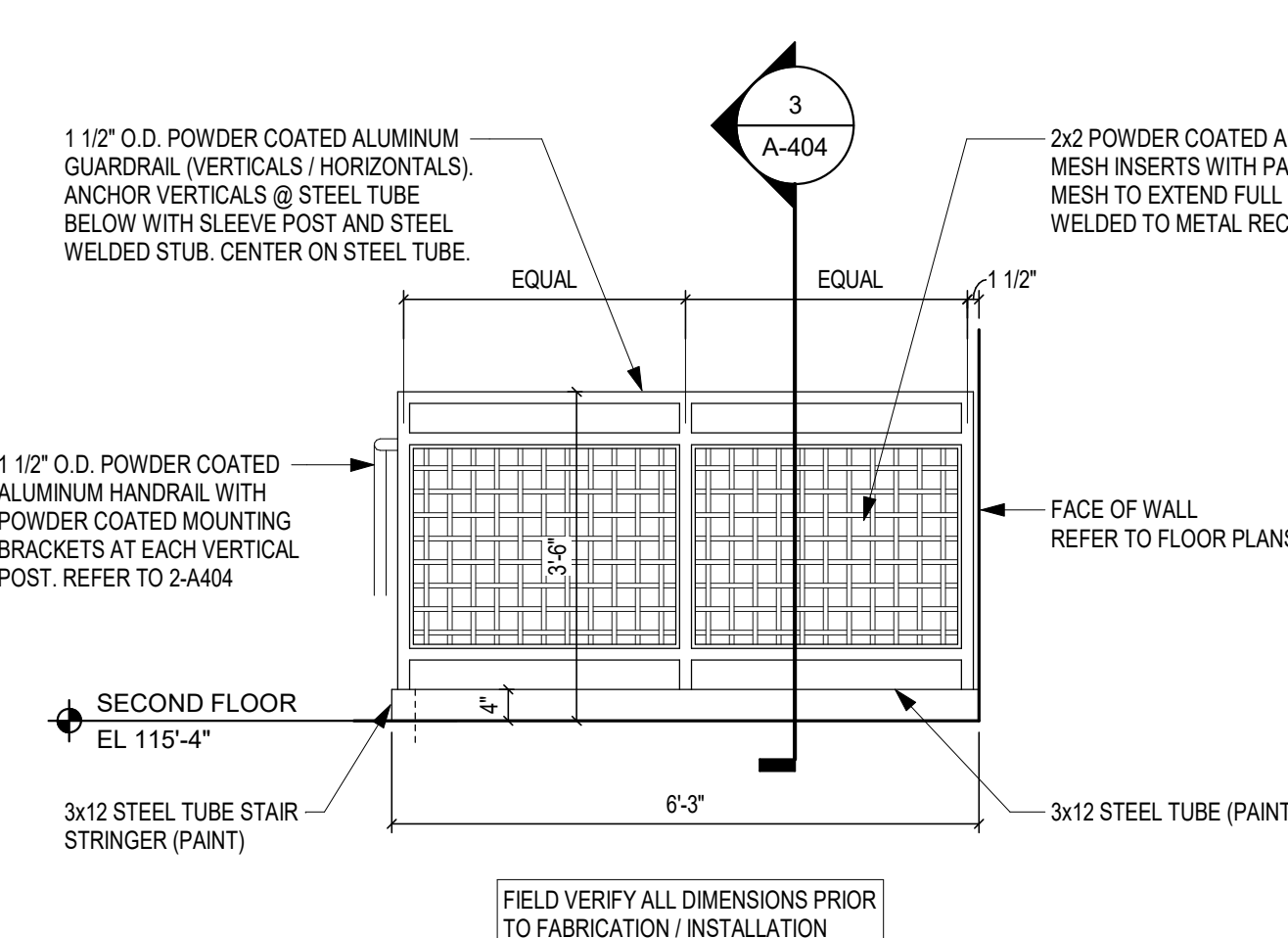
**9 SECTION - ELEVATOR (UNIT B)**  
SCALE: 1/2" = 1'-0"



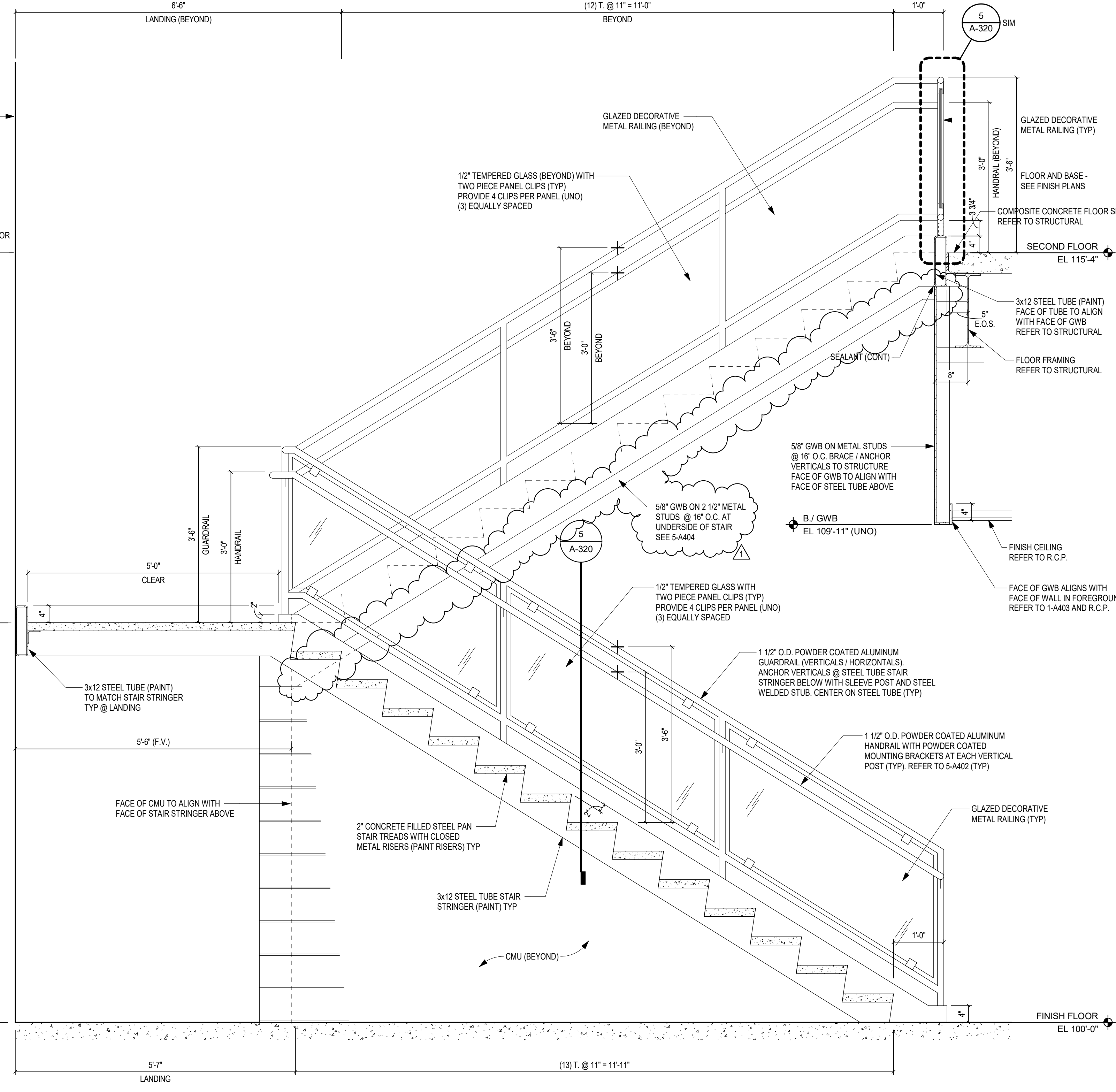
**6 PLAN - ELEVATOR (FIRST FLOOR)**  
SCALE: 3/8" = 1'-0"



**7 PLAN - ELEVATOR (SECOND FLOOR)**  
SCALE: 3/8" = 1'-0"



**8 ELEVATION - GUARDRAIL (STAIR S-3) ALTERNATE**  
SCALE: 1/2" = 1'-0"



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

PENN HIGH SCHOOL FIELDHOUSE

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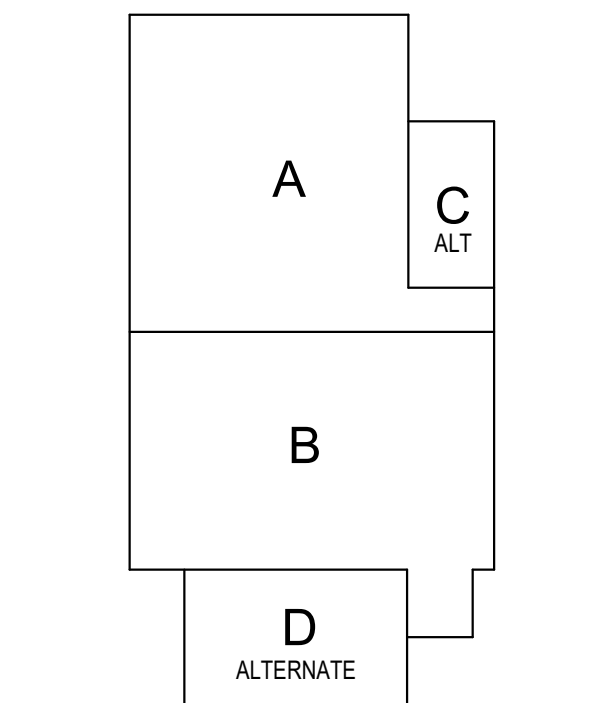
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

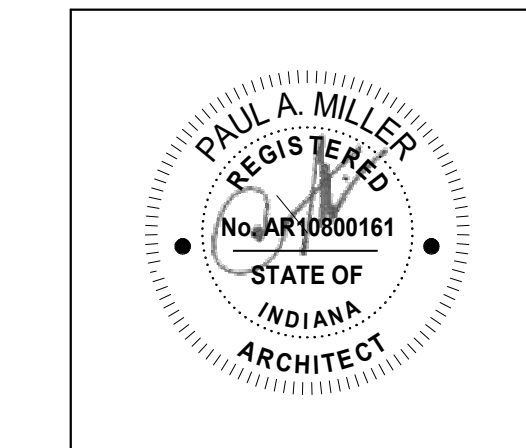
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KEY PLAN

Construction Documents

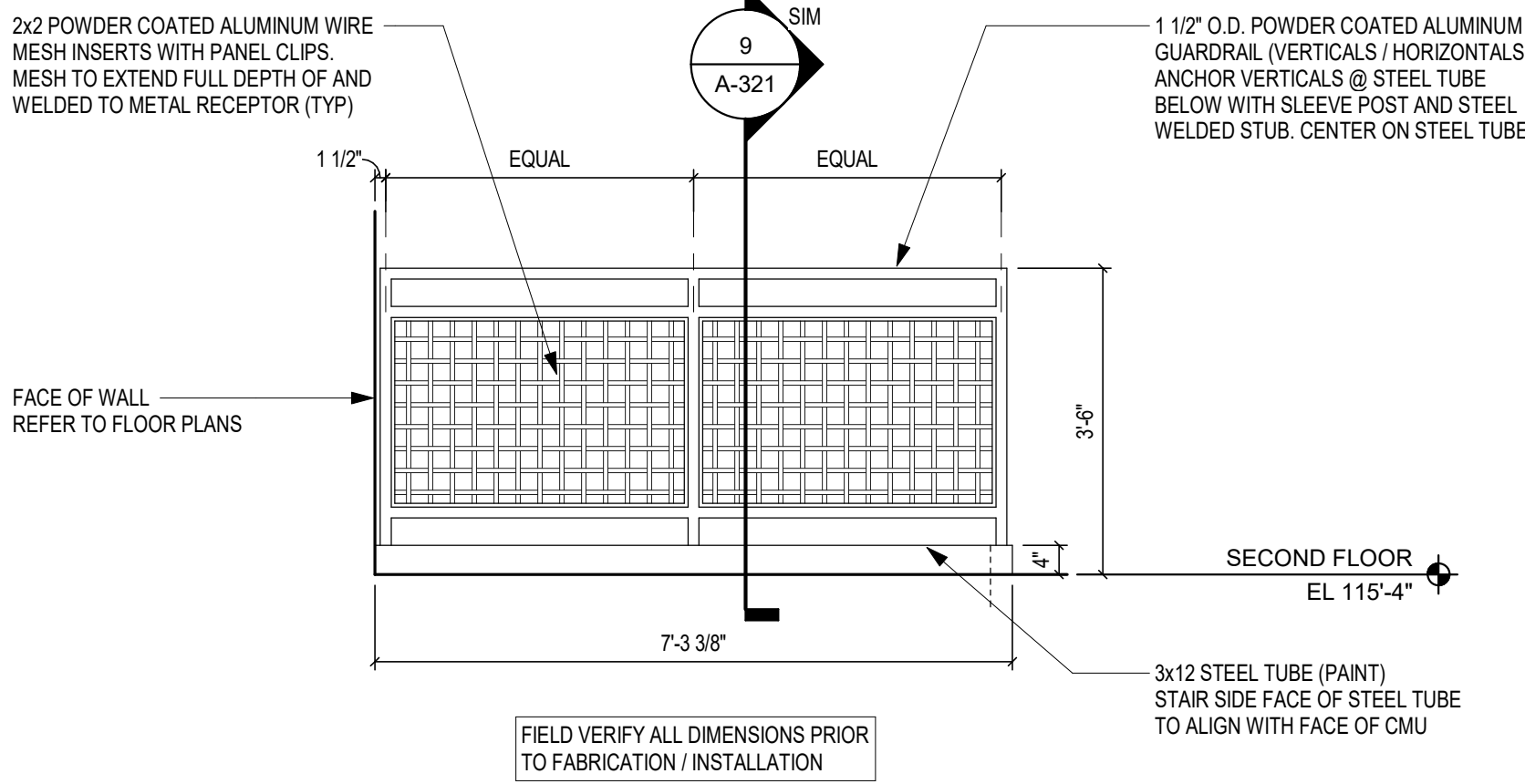
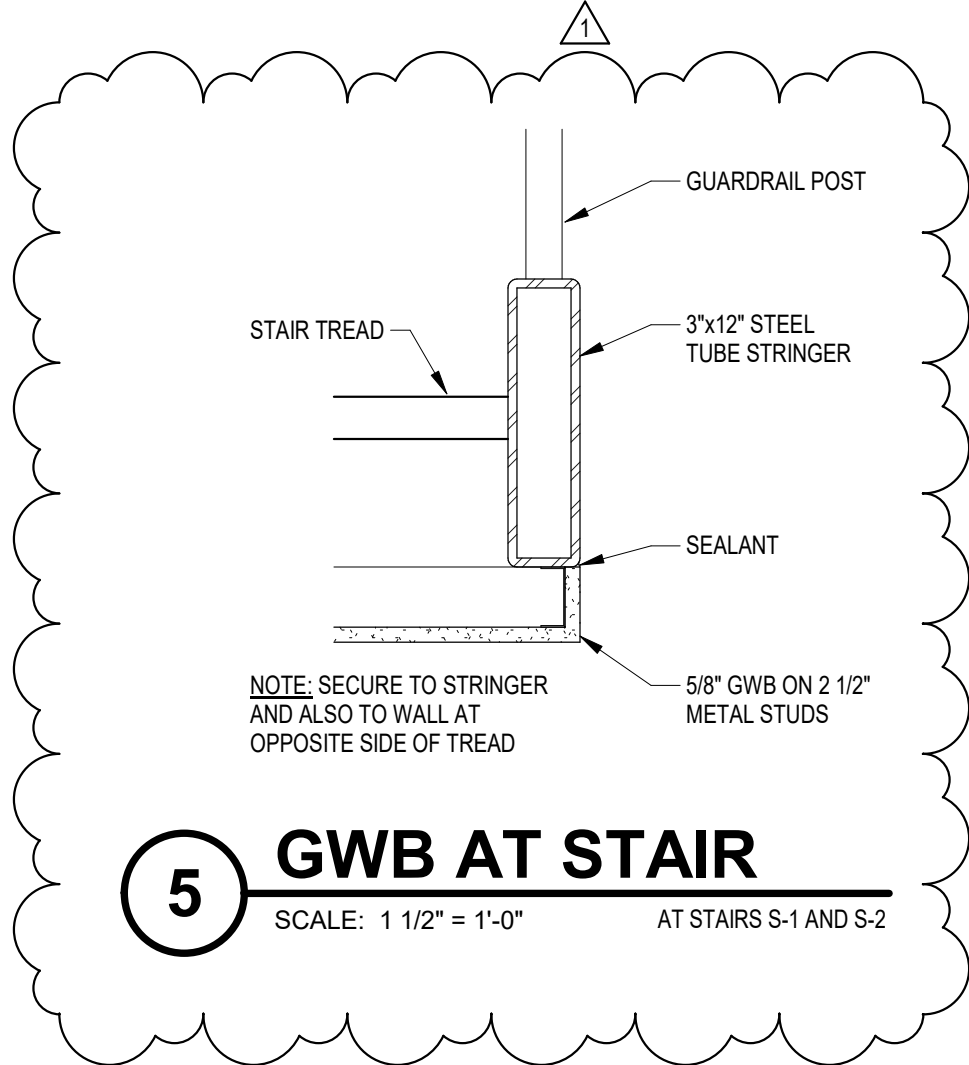


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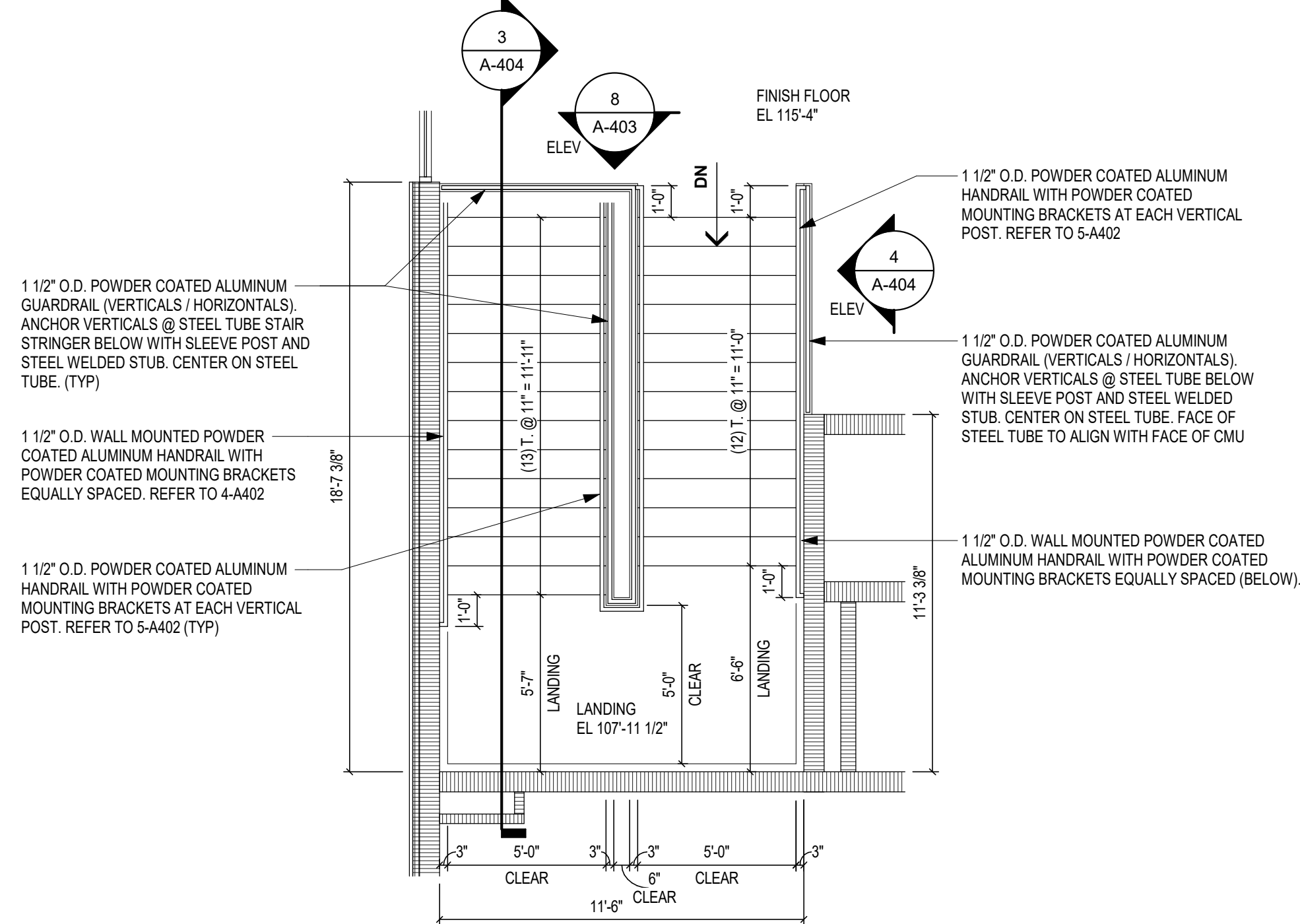
ENLARGED PLANS

A-404



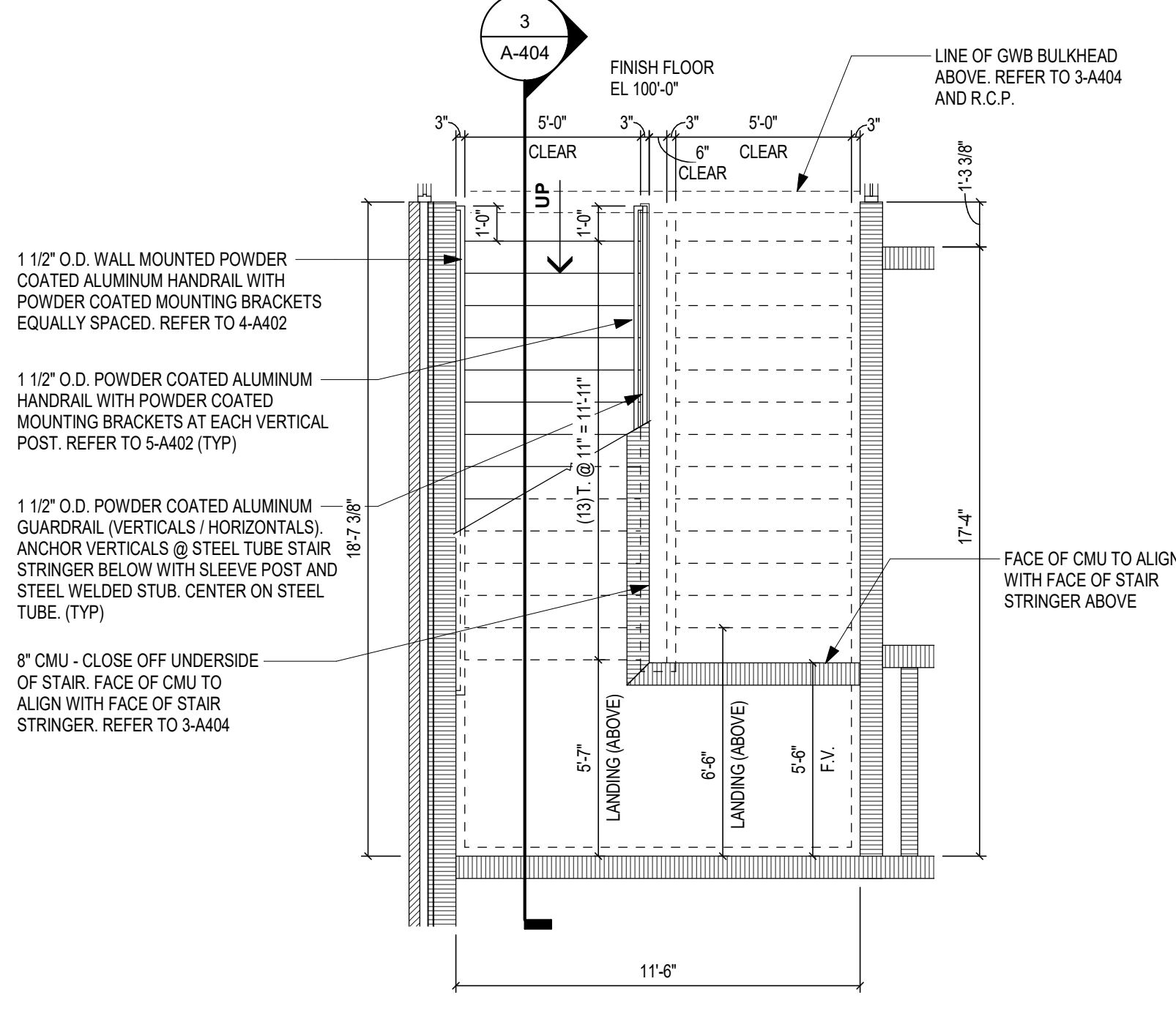
ELEVATION - GUARDRAIL (STAIR S-3) ALTERNATE

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



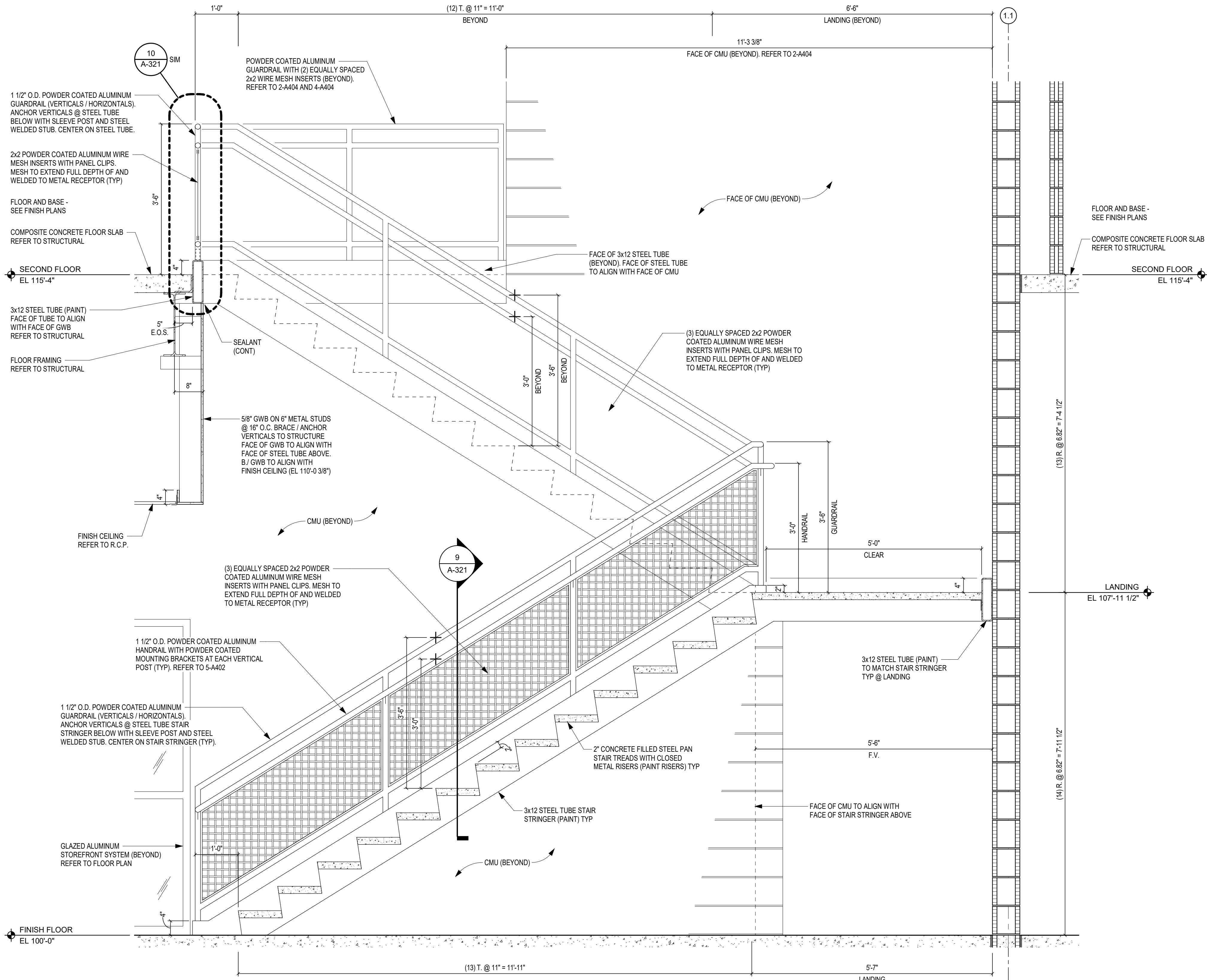
PLAN - STAIR S-3 (SECOND FLOOR) ALTERNATE

SCALE: 1/4" = 1'-0"



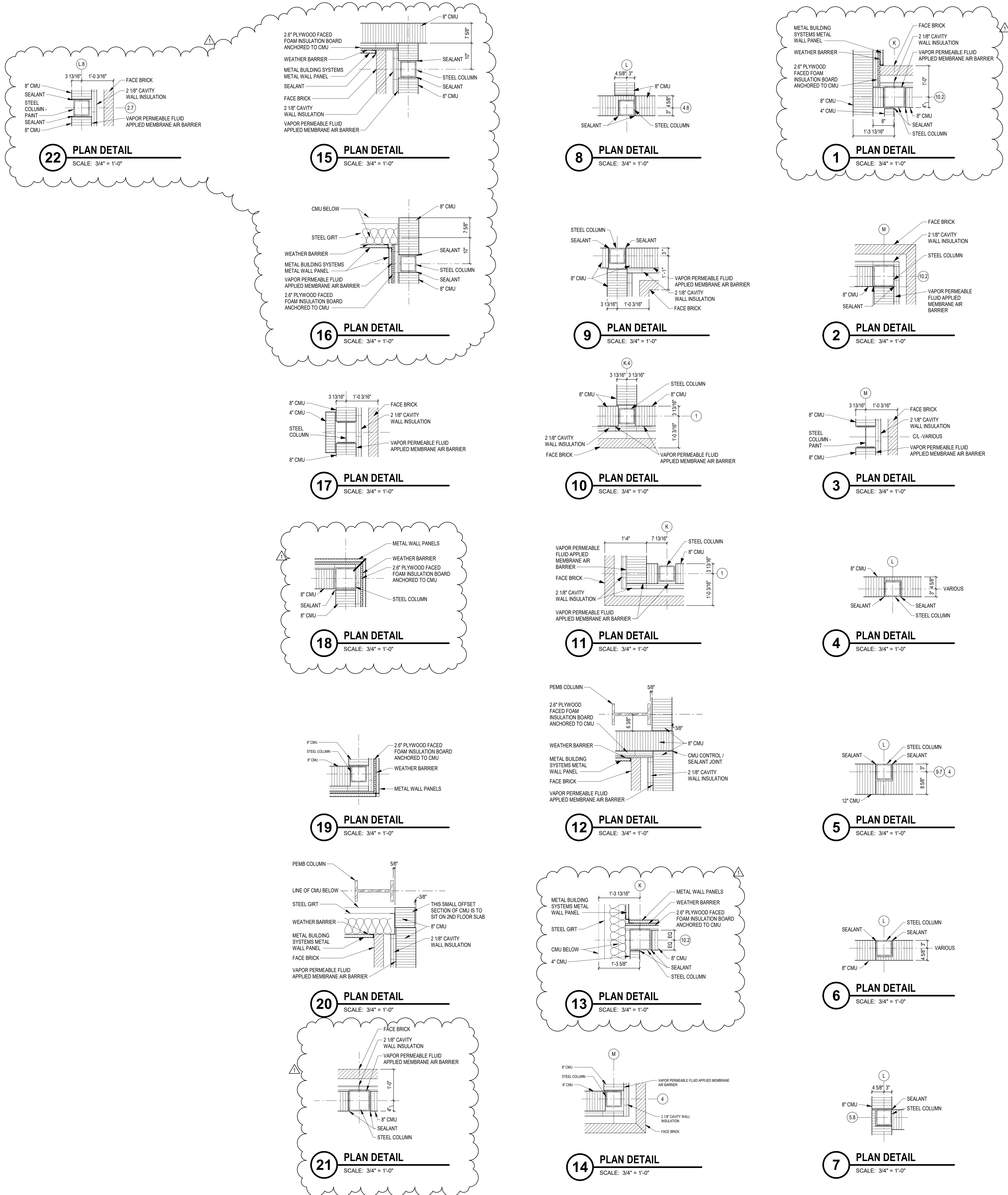
PLAN - STAIR S-3 (FIRST FLOOR) ALTERNATE

SCALE: 1/4" = 1'-0"



SECTION - STAIR S-3 (ALTERNATE)

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



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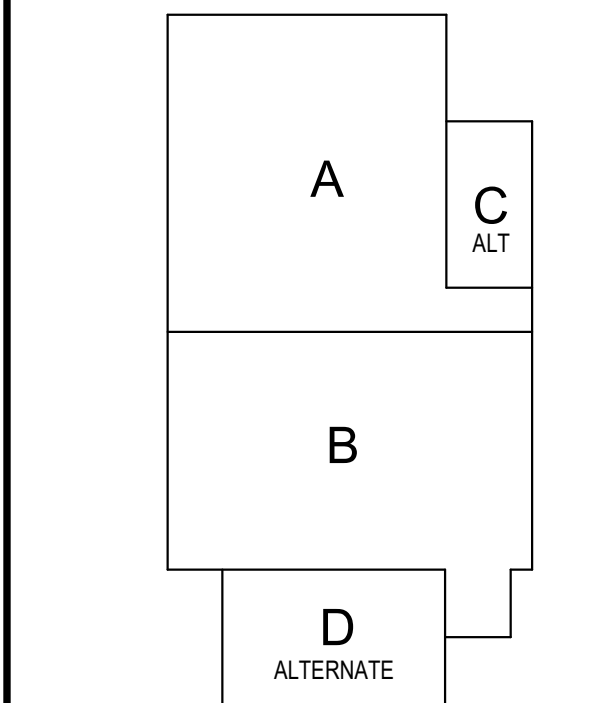
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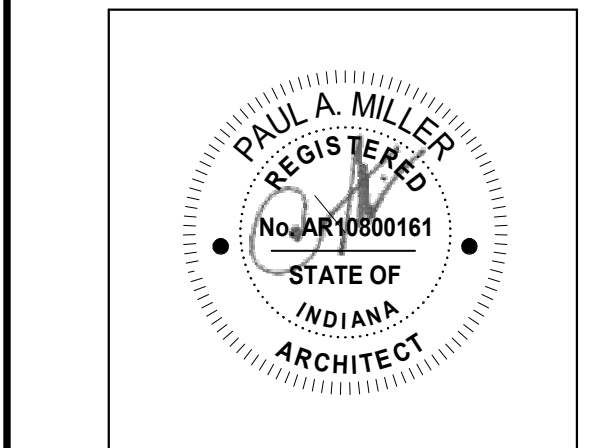
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## KEY PLAN

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PROJECT MANAGER: MKS  
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FLOOR PLAN DETAILS

# A-410

# PENN HIGH SCHOOL FIELDHOUSE

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PENN-HARRIS-MADISON SCHOOL CORPORATION



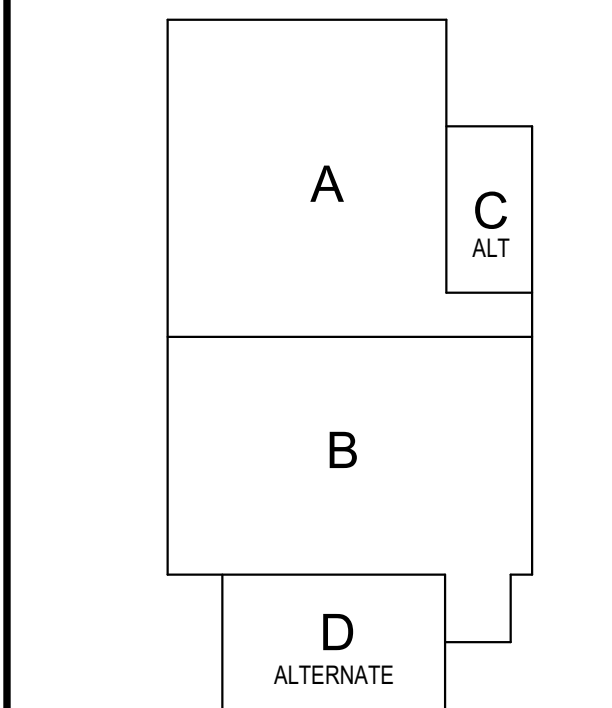
ARCHITECT

# FANNING HOWE

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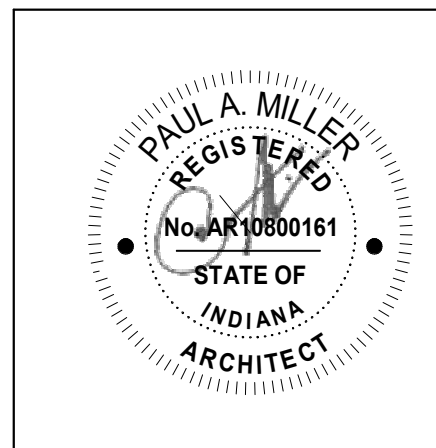
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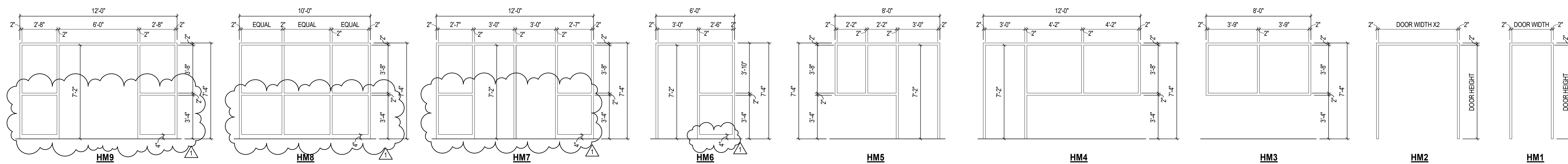


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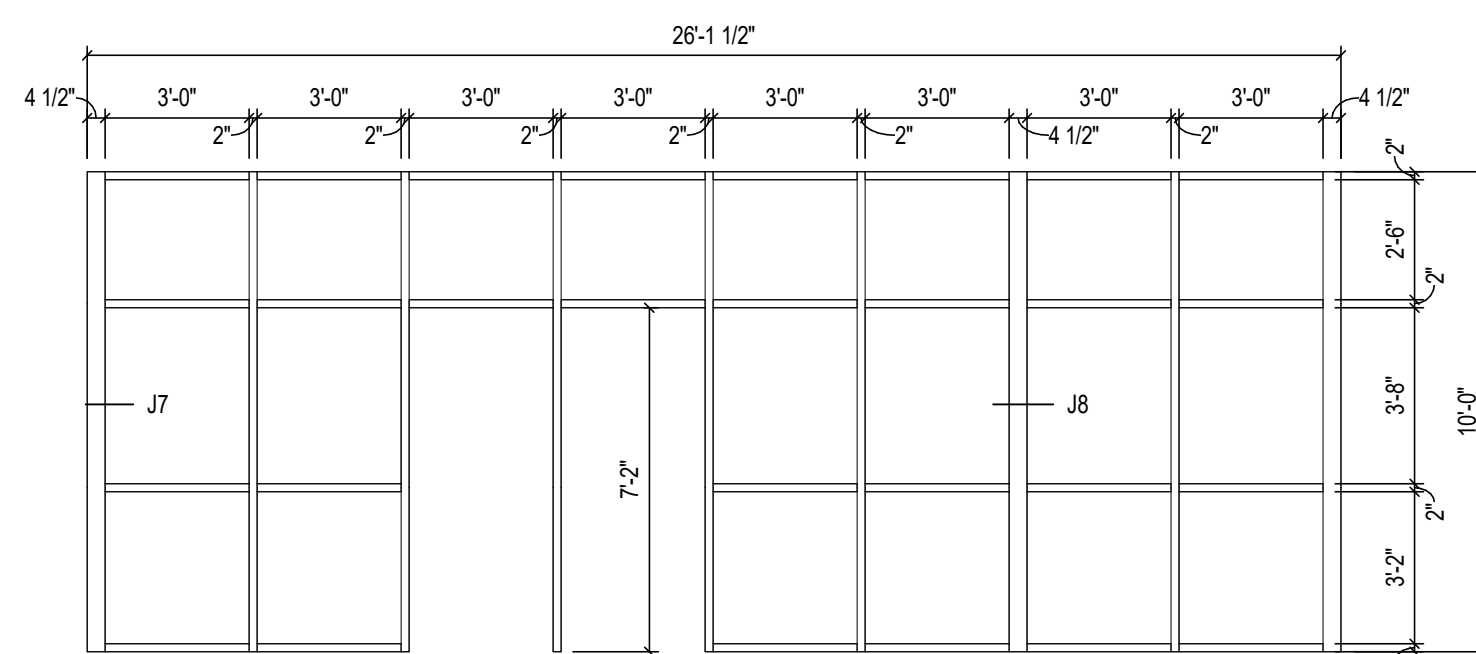
FRAME ELEVATIONS

# A-440



## HOLLOW METAL (HM) FRAME ELEVATIONS

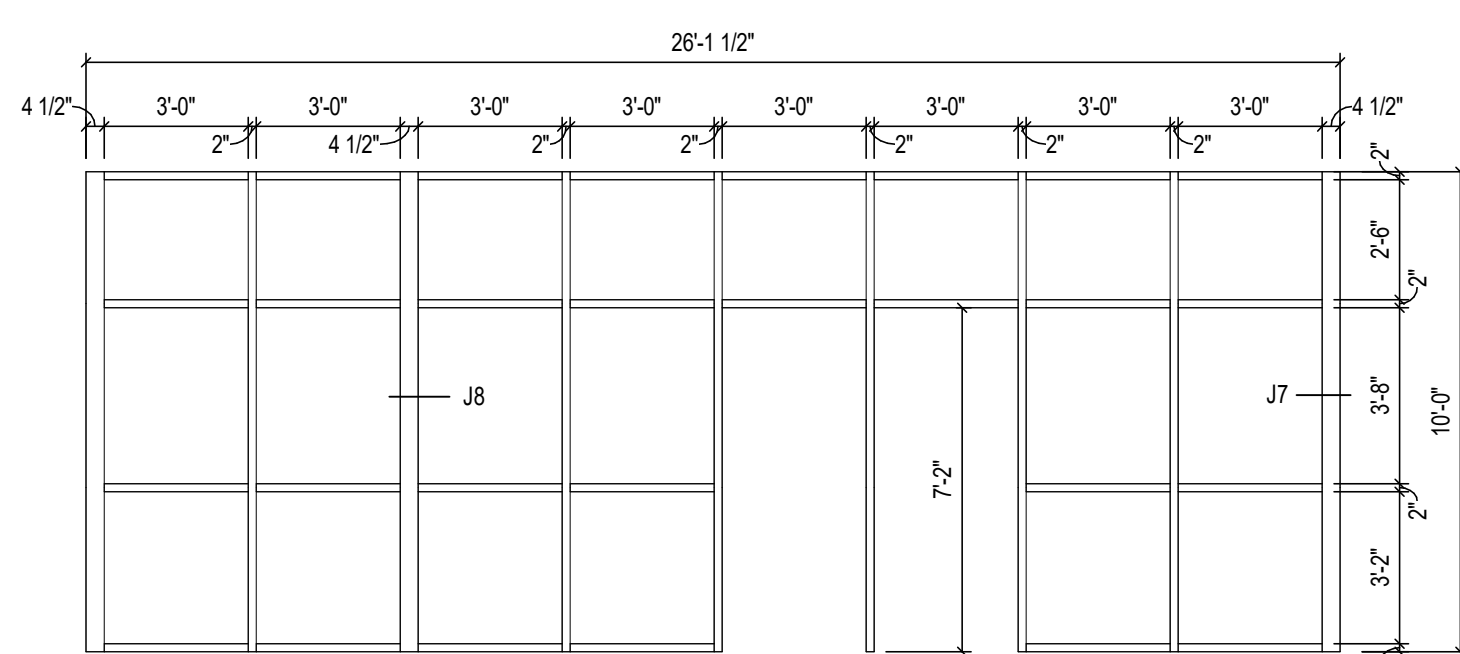
SCALE: 1/4" = 1'-0"



### Storefront SF6

SCALE: 1/4" = 1'-0"

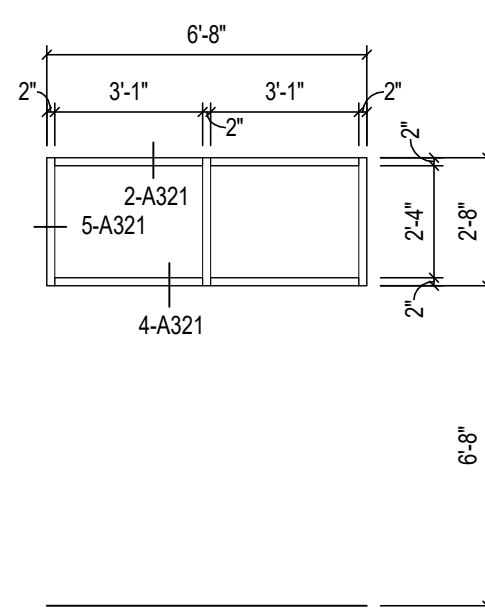
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF5

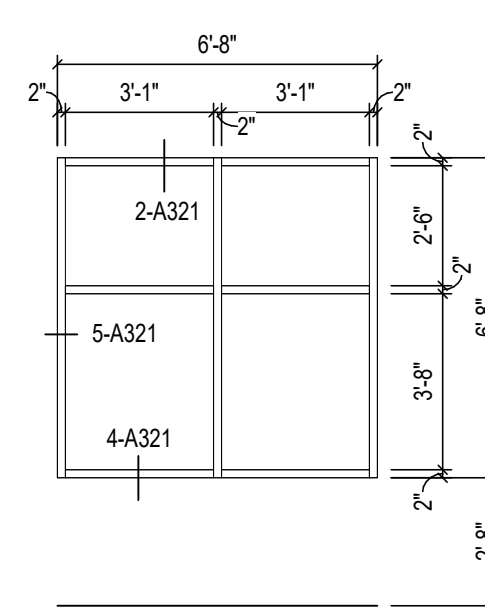
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SAFETY AND SECURITY FILM ON ALL GLAZING



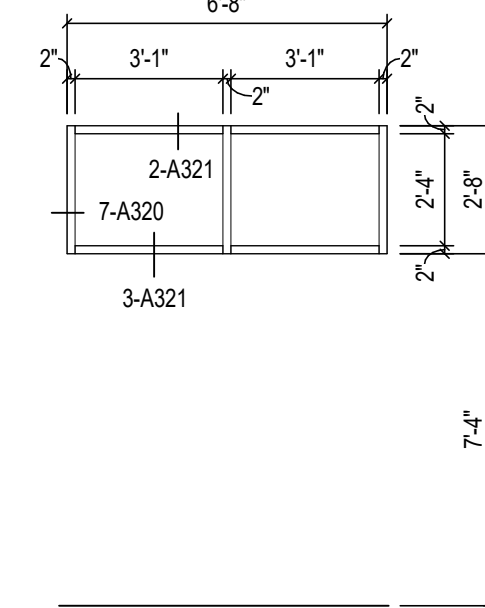
### Storefront SF4

SCALE: 1/4" = 1'-0"



### Storefront SF3

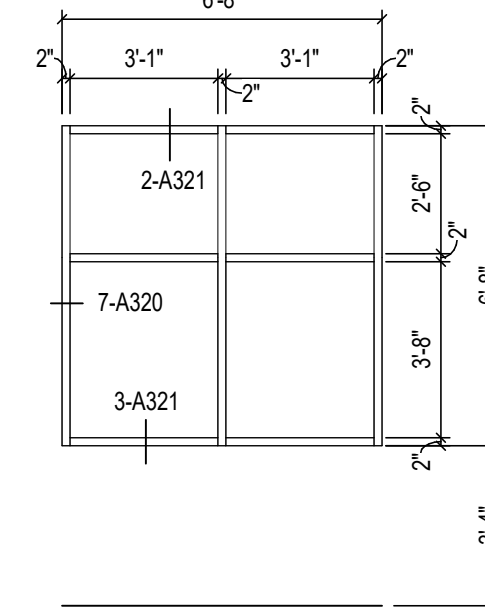
SCALE: 1/4" = 1'-0"



### Storefront SF2

SCALE: 1/4" = 1'-0"

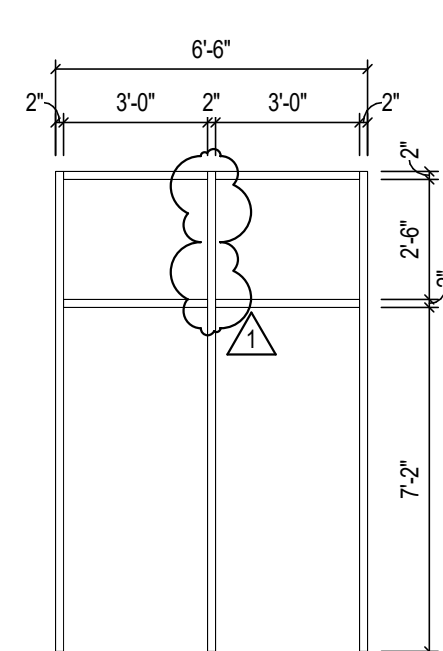
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF1

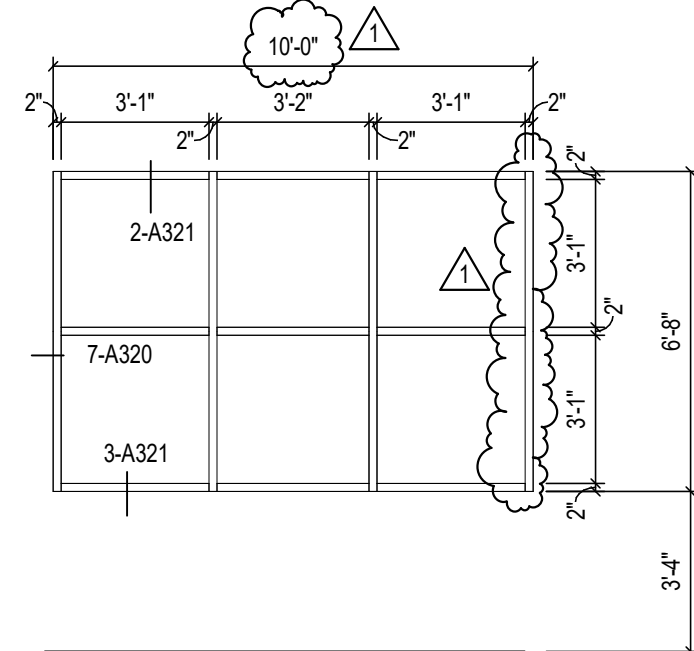
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SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF14

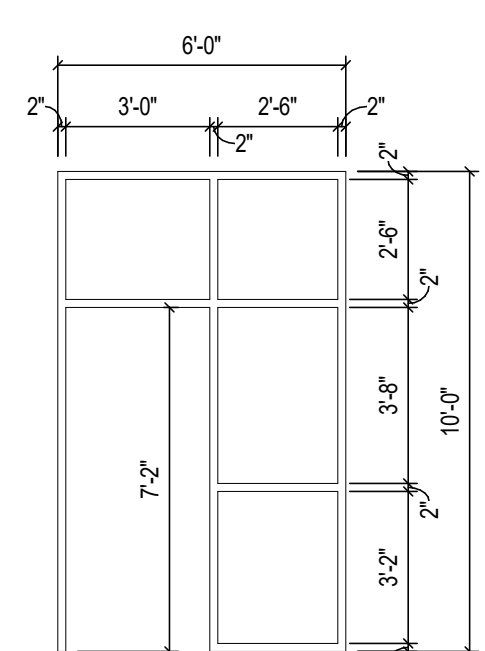
SCALE: 1/4" = 1'-0"



### Storefront SF13

SCALE: 1/4" = 1'-0"

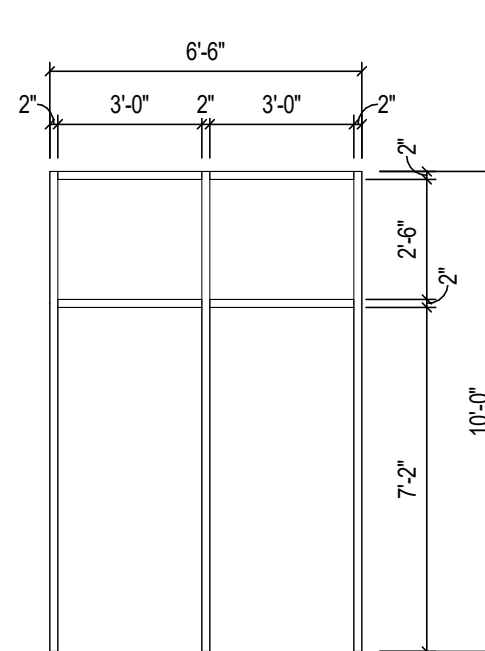
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF12

SCALE: 1/4" = 1'-0"

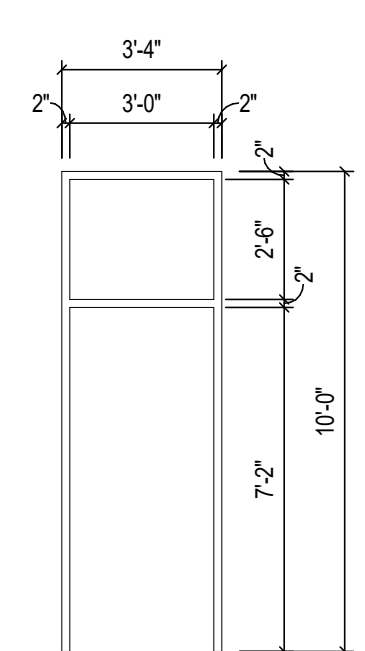
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF11

SCALE: 1/4" = 1'-0"

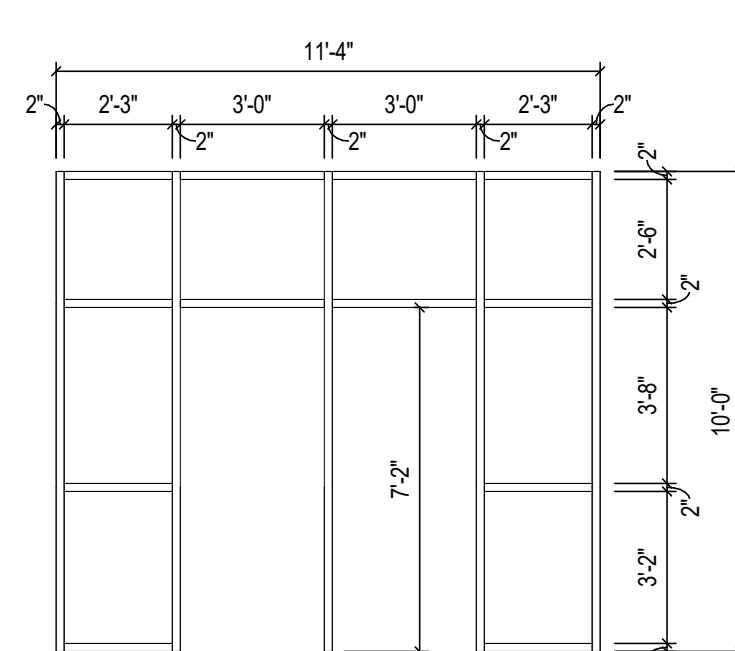
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF10

SCALE: 1/4" = 1'-0"

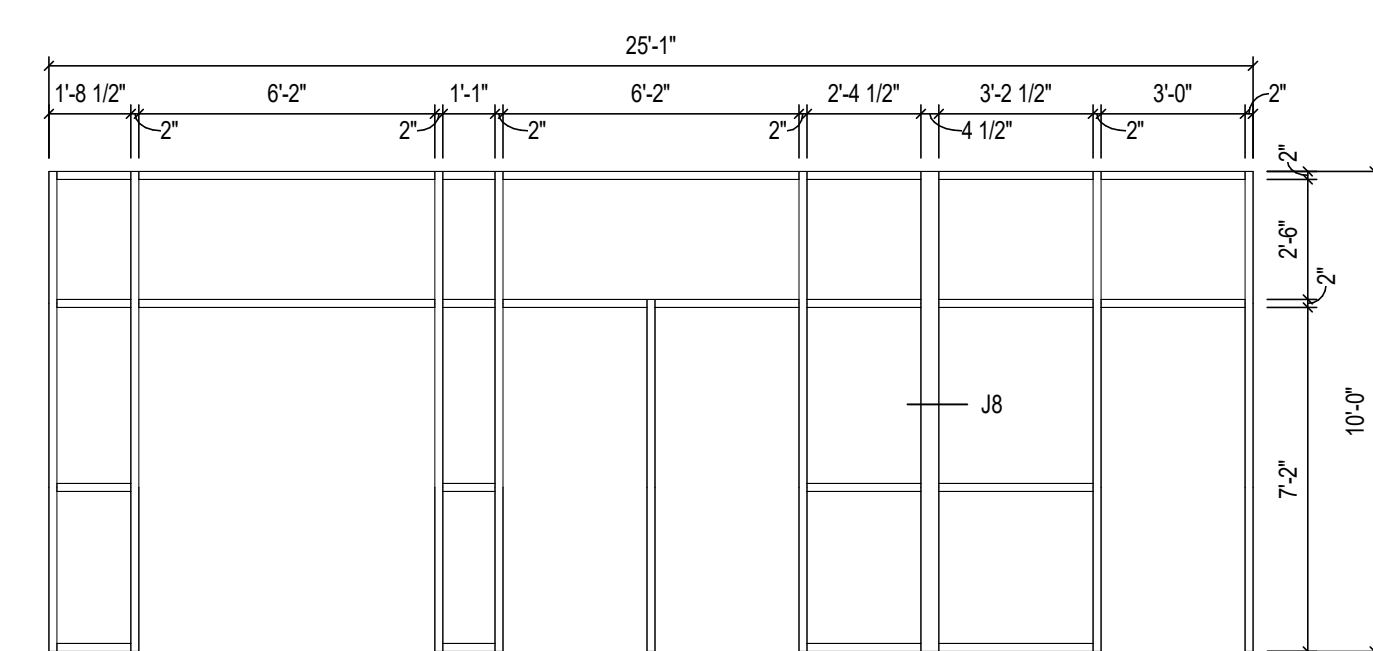
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF9

SCALE: 1/4" = 1'-0"

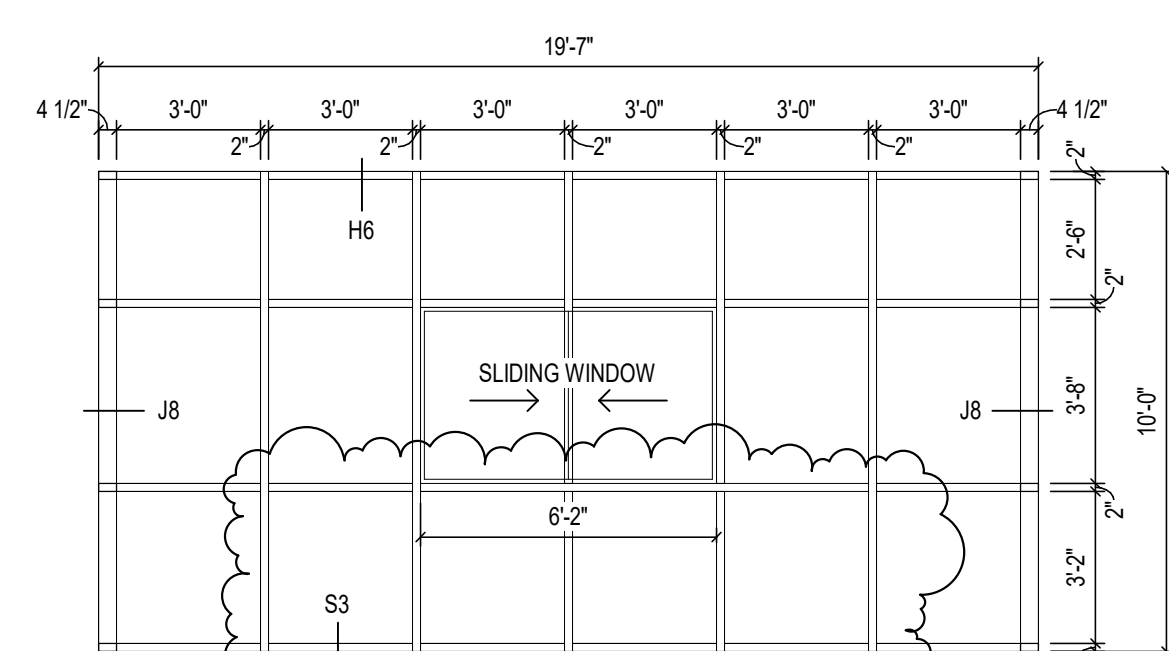
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF8

SCALE: 1/4" = 1'-0"

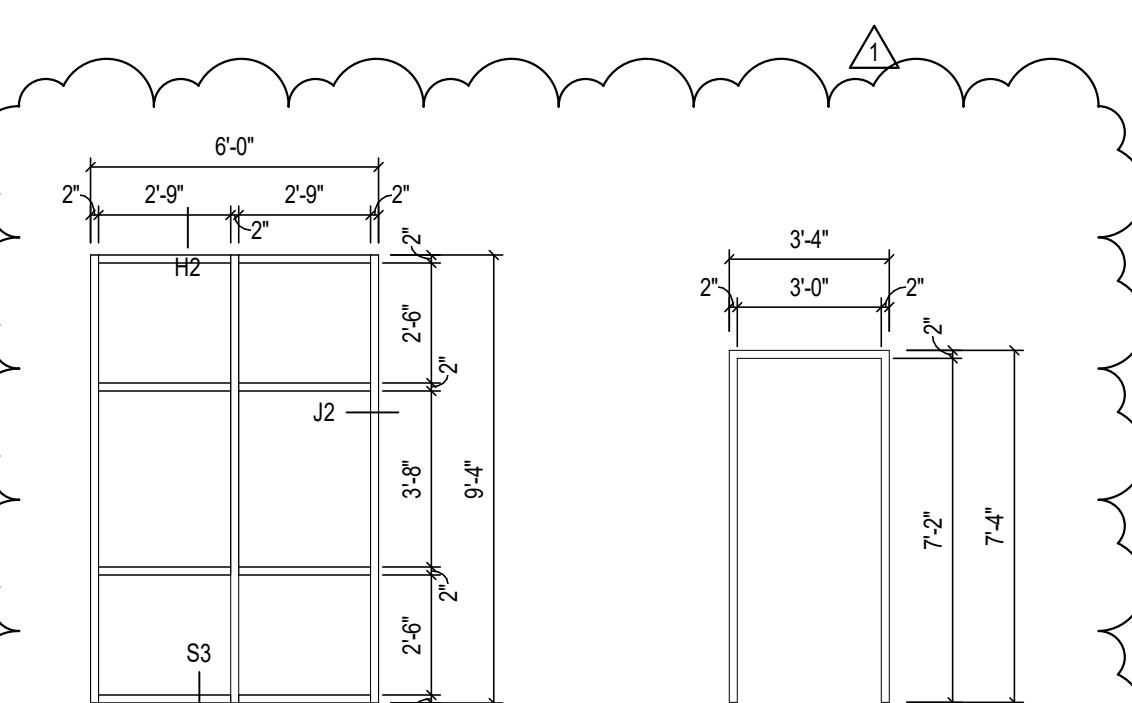
SAFETY AND SECURITY FILM ON ALL GLAZING



### Storefront SF7

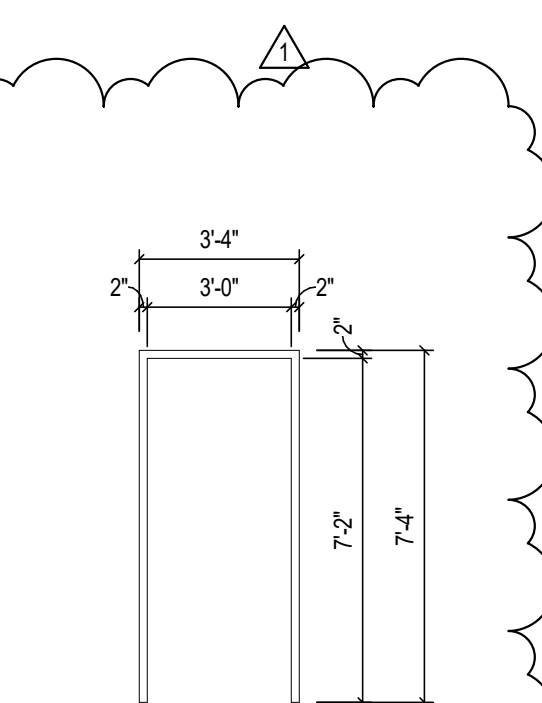
SCALE: 1/4" = 1'-0"

SAFETY AND SECURITY FILM ON ALL GLAZING



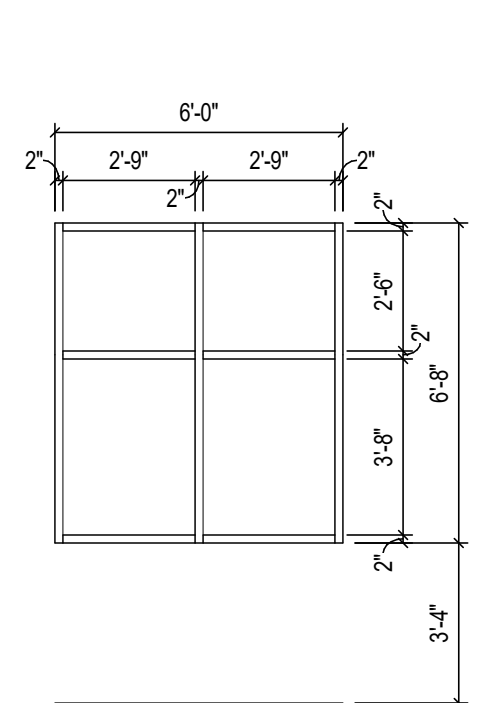
### Storefront SF24

SCALE: 1/4" = 1'-0"



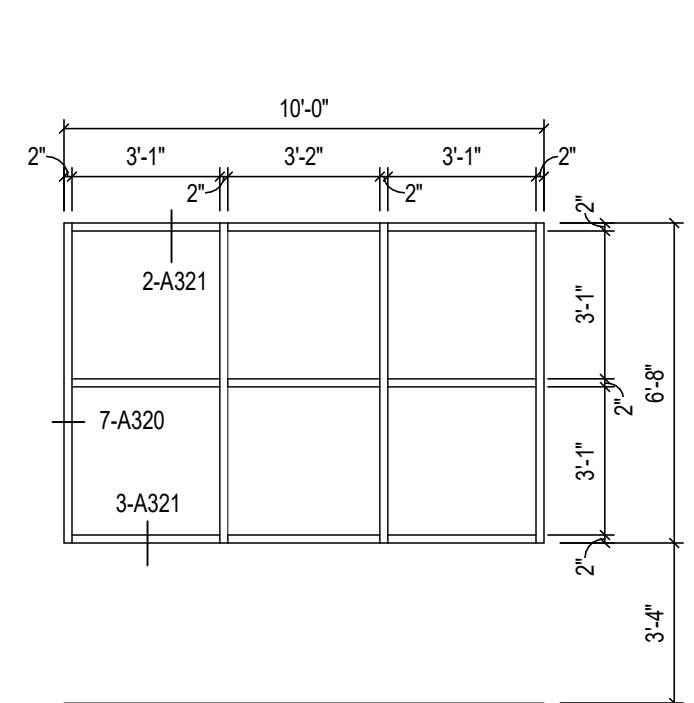
### Storefront SF23

SCALE: 1/4" = 1'-0"



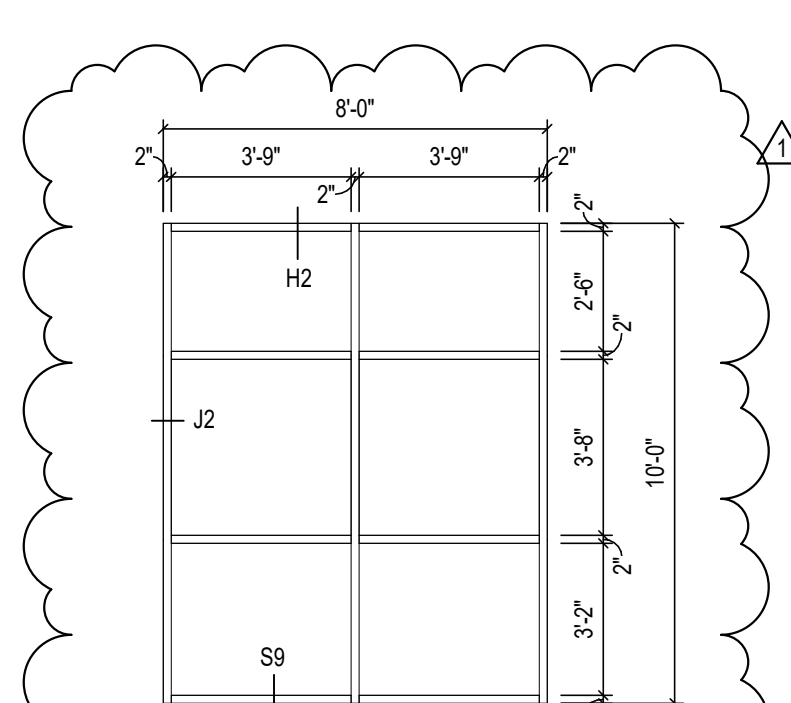
### Storefront SF22

SCALE: 1/4" = 1'-0"



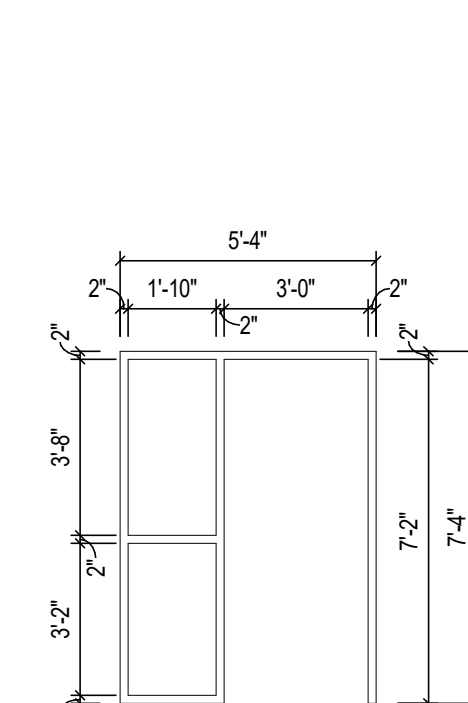
### Storefront SF21

SCALE: 1/4" = 1'-0"



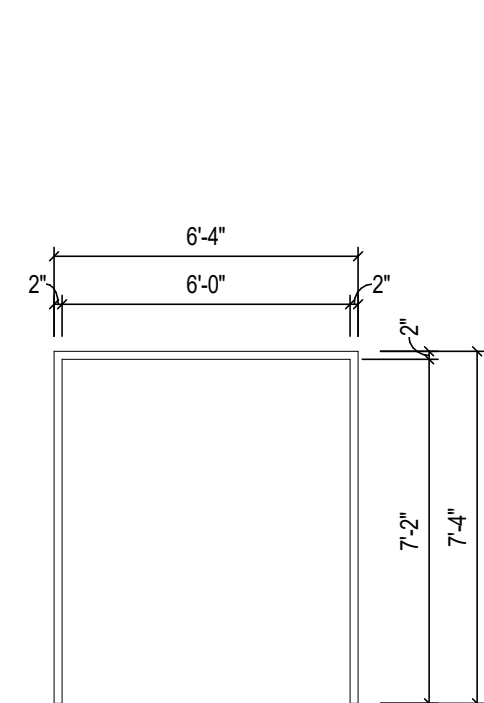
### Storefront SF20

SCALE: 1/4" = 1'-0"



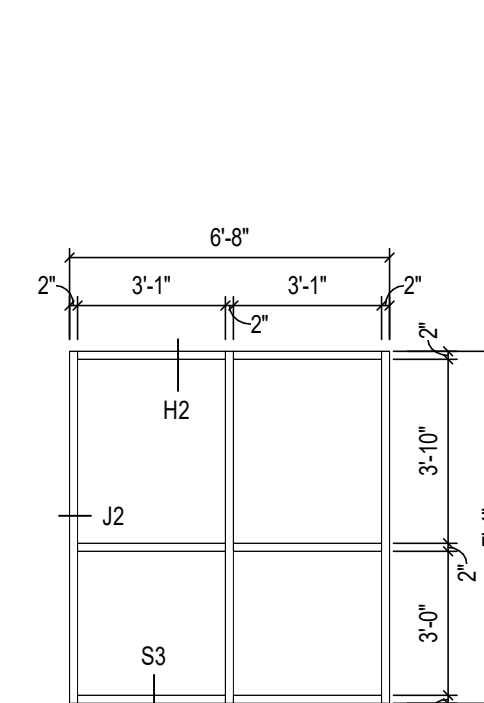
### Storefront SF19

SCALE: 1/4" = 1'-0"



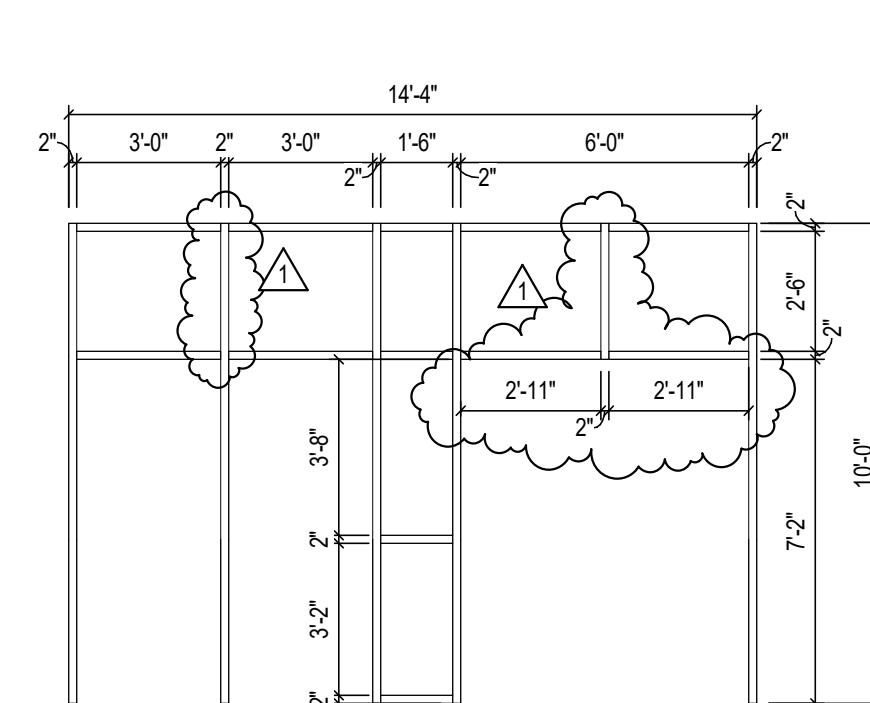
### Storefront SF18

SCALE: 1/4" = 1'-0"



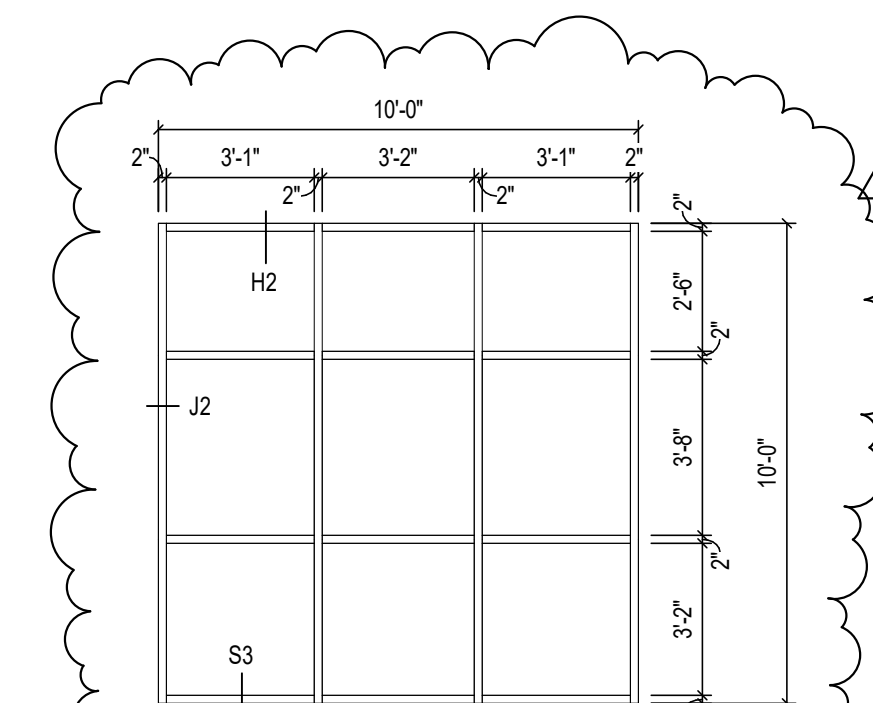
### Storefront SF17

SCALE: 1/4" = 1'-0"



### Storefront SF16

SCALE: 1/4" = 1'-0"



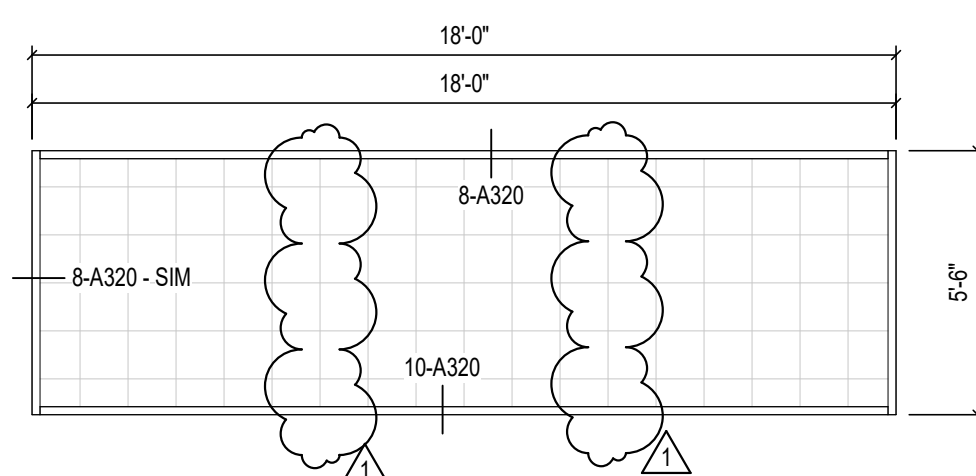
### Storefront SF15

SCALE: 1/4" = 1'-0"

NOTES:  
- SAFETY AND SECURITY FILM ON ALL FIRST FLOOR EXTERIOR GLAZING  
- SEE SHEETS A601 AND A602 FOR DETAILS NOTED BY H7, J7 AND S7

## ALUMINUM STOREFRONT (SF)

SCALE: 1/4" = 1'-0"

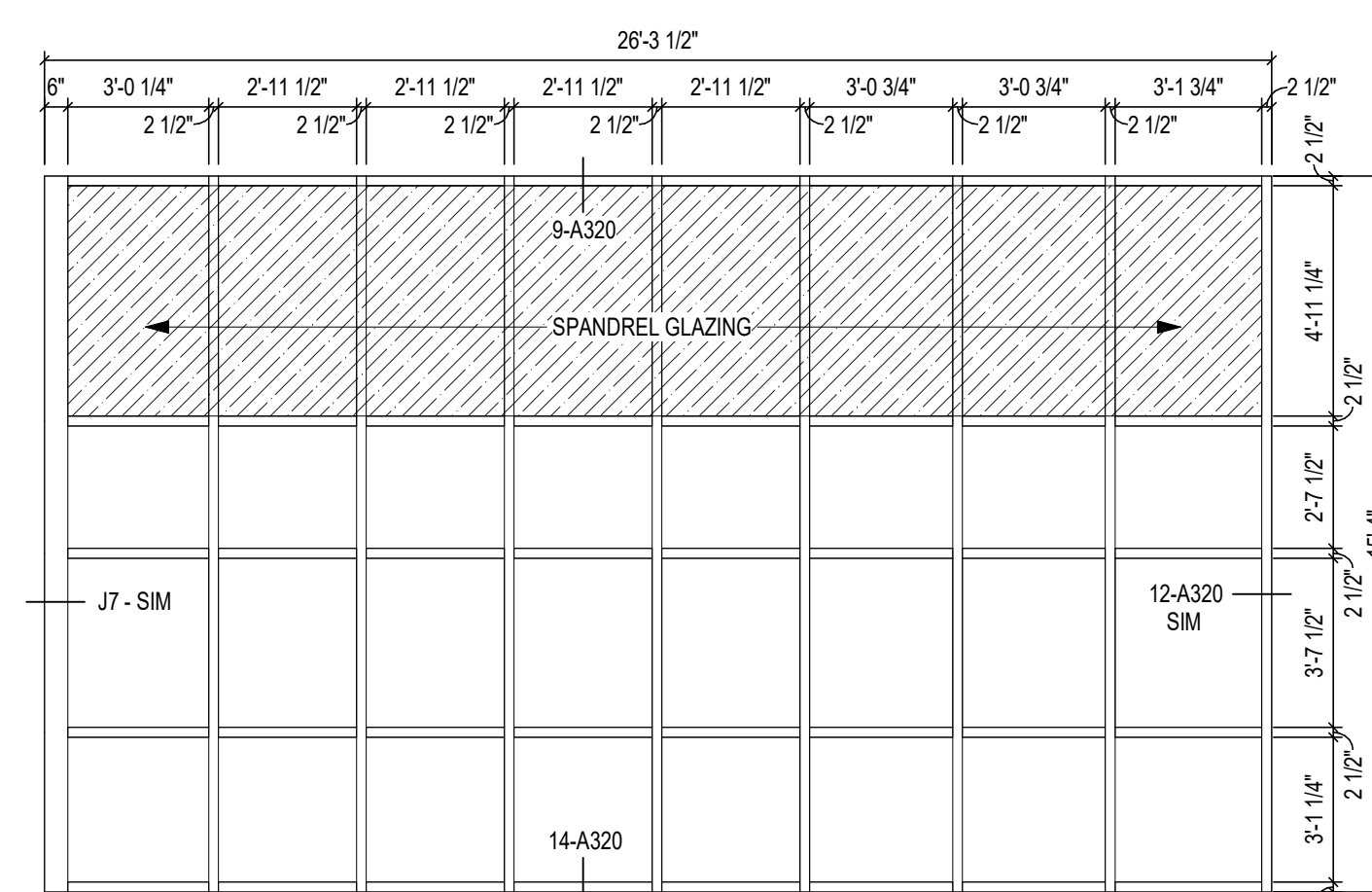


### PP1

SCALE: 1/4" = 1'-0"

## POLYCARBONATE PANEL (PP)

SCALE: 1/4" = 1'-0"

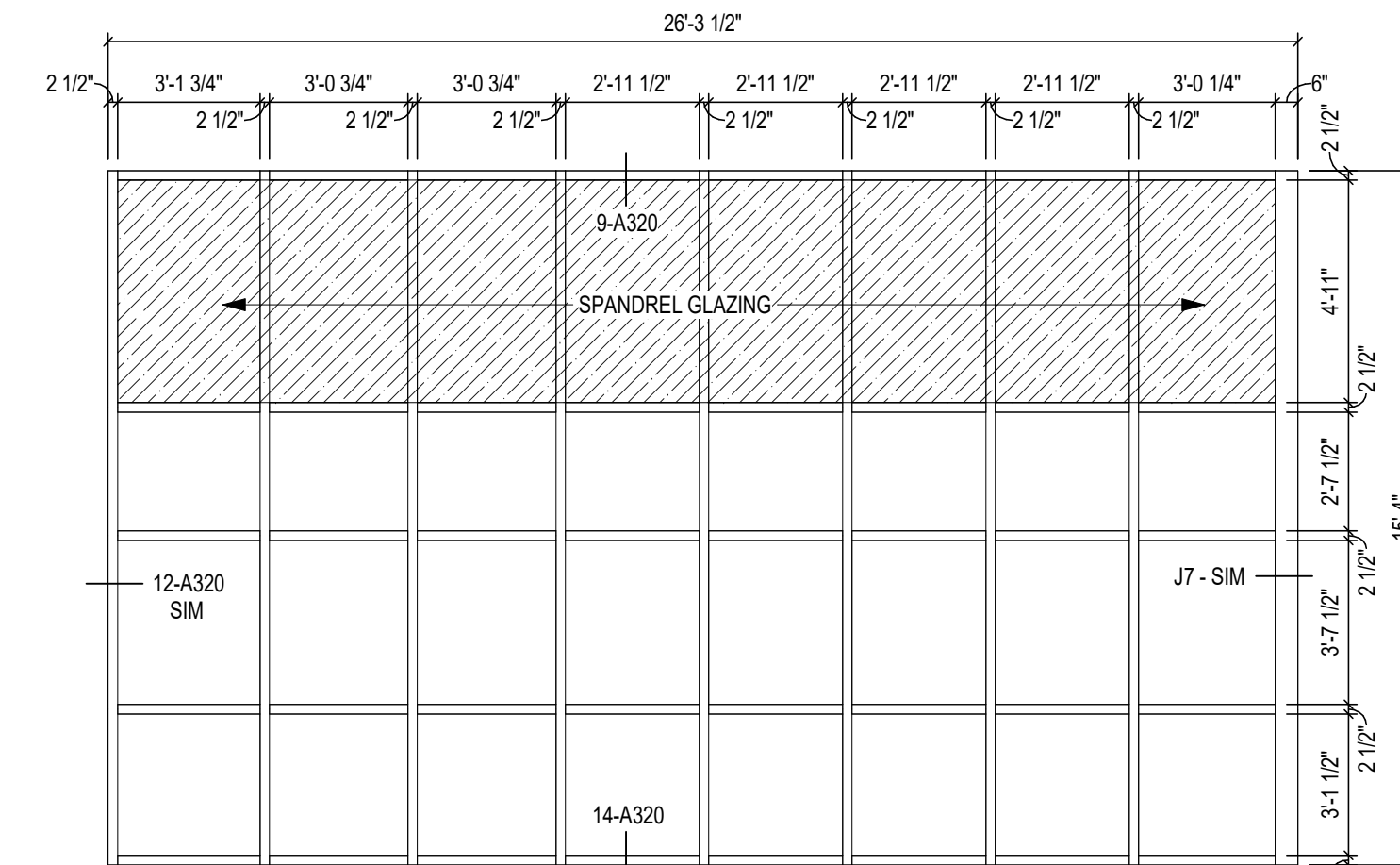


### Curtainwall CW2

SCALE: 1/4" = 1'-0"

## ALUMINUM CURTAINWALL (CW)

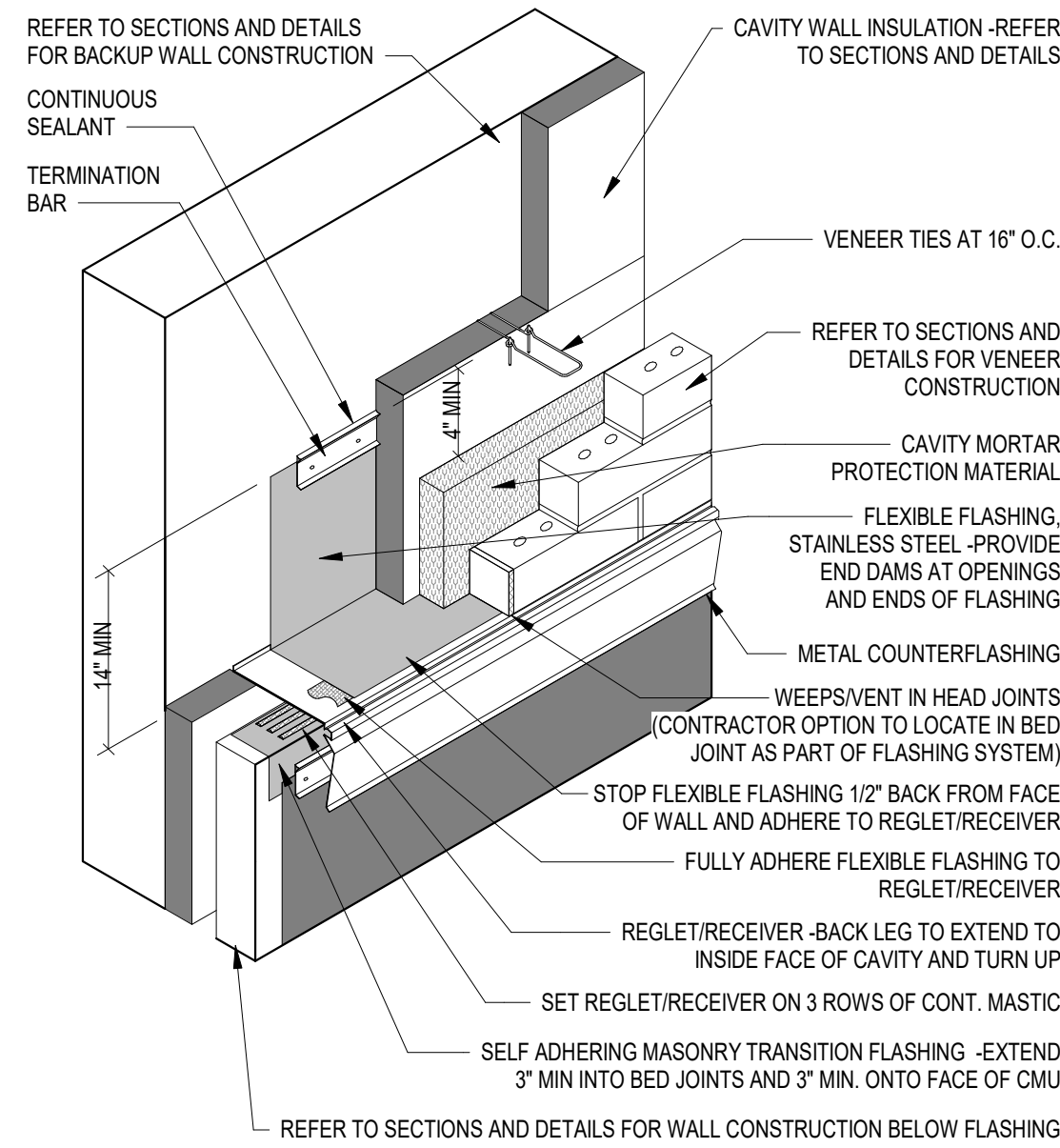
SCALE: 1/4" = 1'-0"



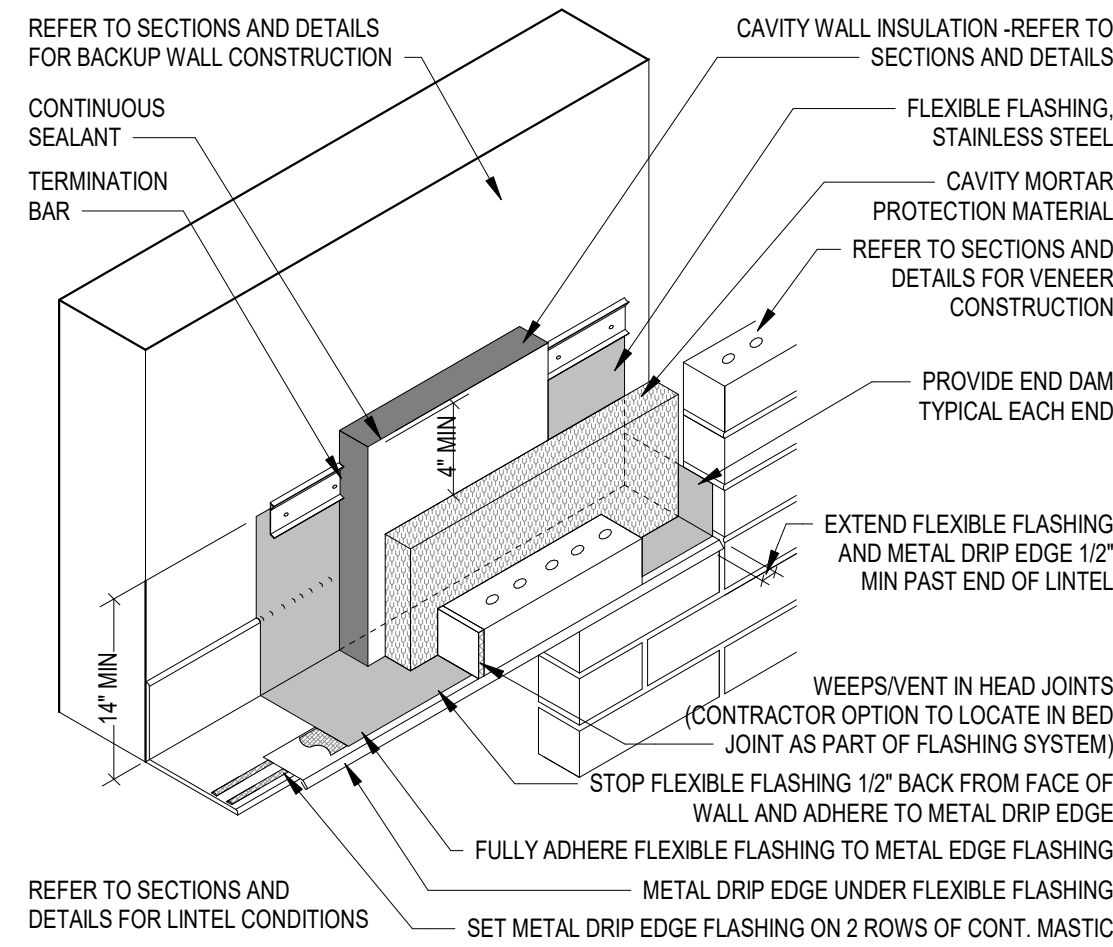
### Curtainwall CW1

SCALE: 1/4" = 1'-0"

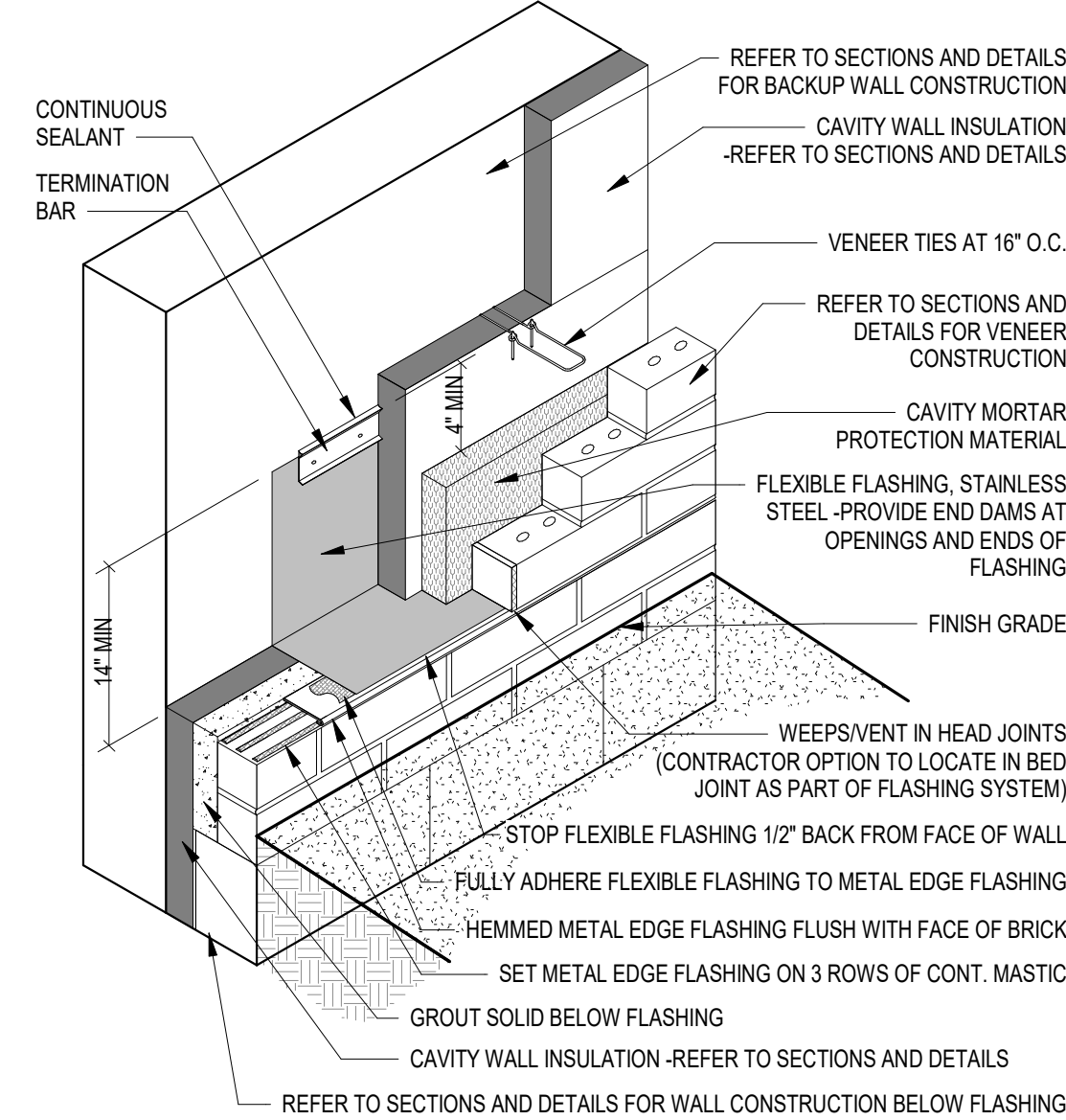
C:\Users\lgambill\Documents\2023\_Arch\_222130.00\_rgambill.rvt  
1/26/2024 9:02:19 AM



TYPICAL CAVITY WALL FLASHING AT ROOF TO WALL

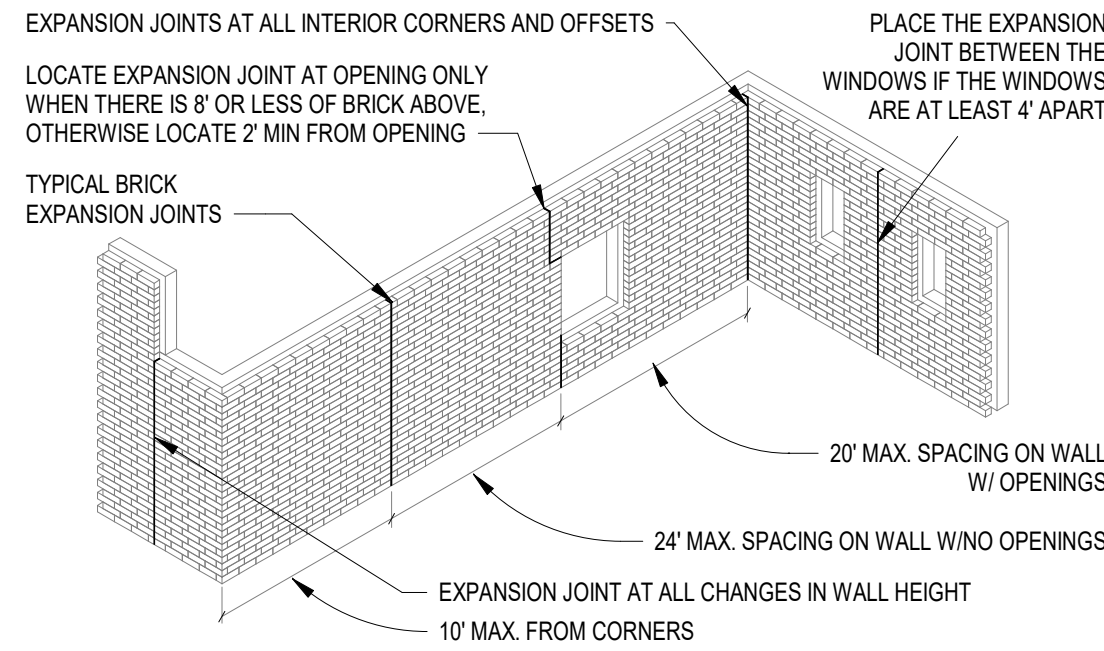


TYPICAL CAVITY WALL FLASHING ABOVE OPENINGS



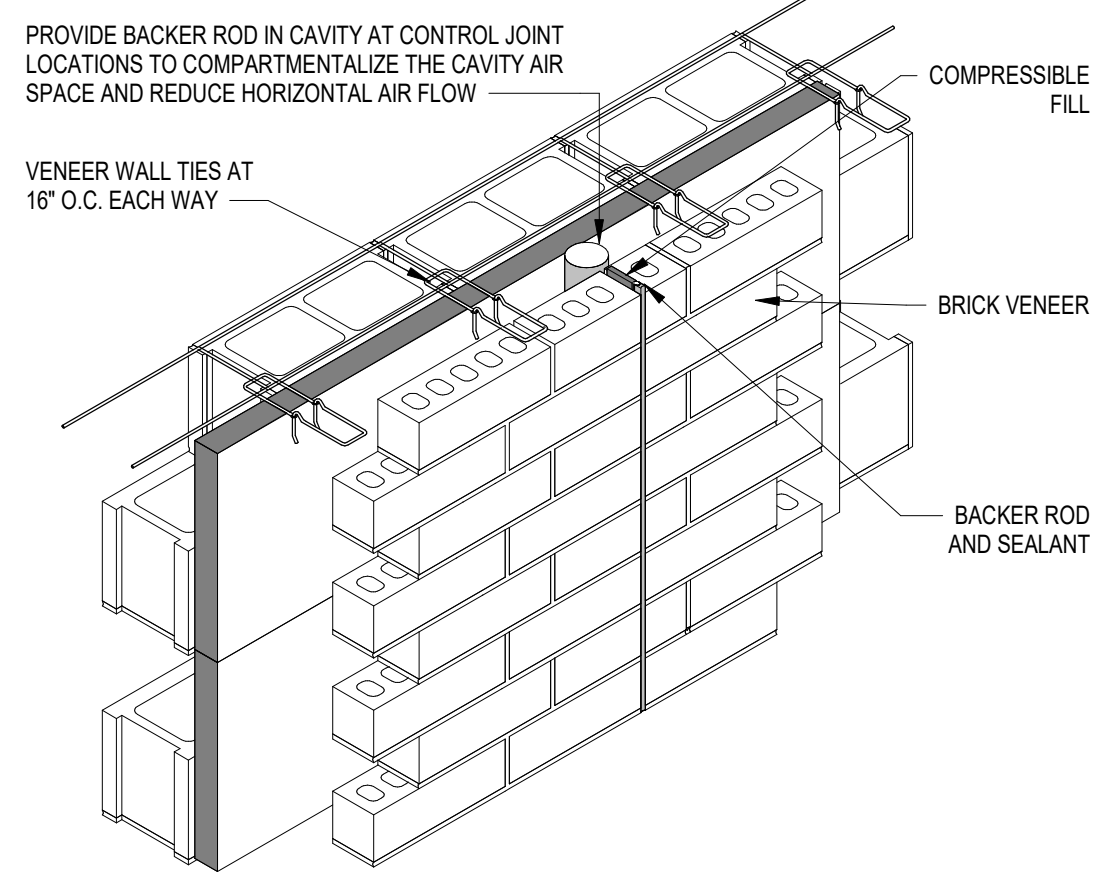
TYPICAL CAVITY WALL FLASHING AT BASE OF WALL

3 TYPICAL CAVITY WALL FLASHINGS  
NOT TO SCALE

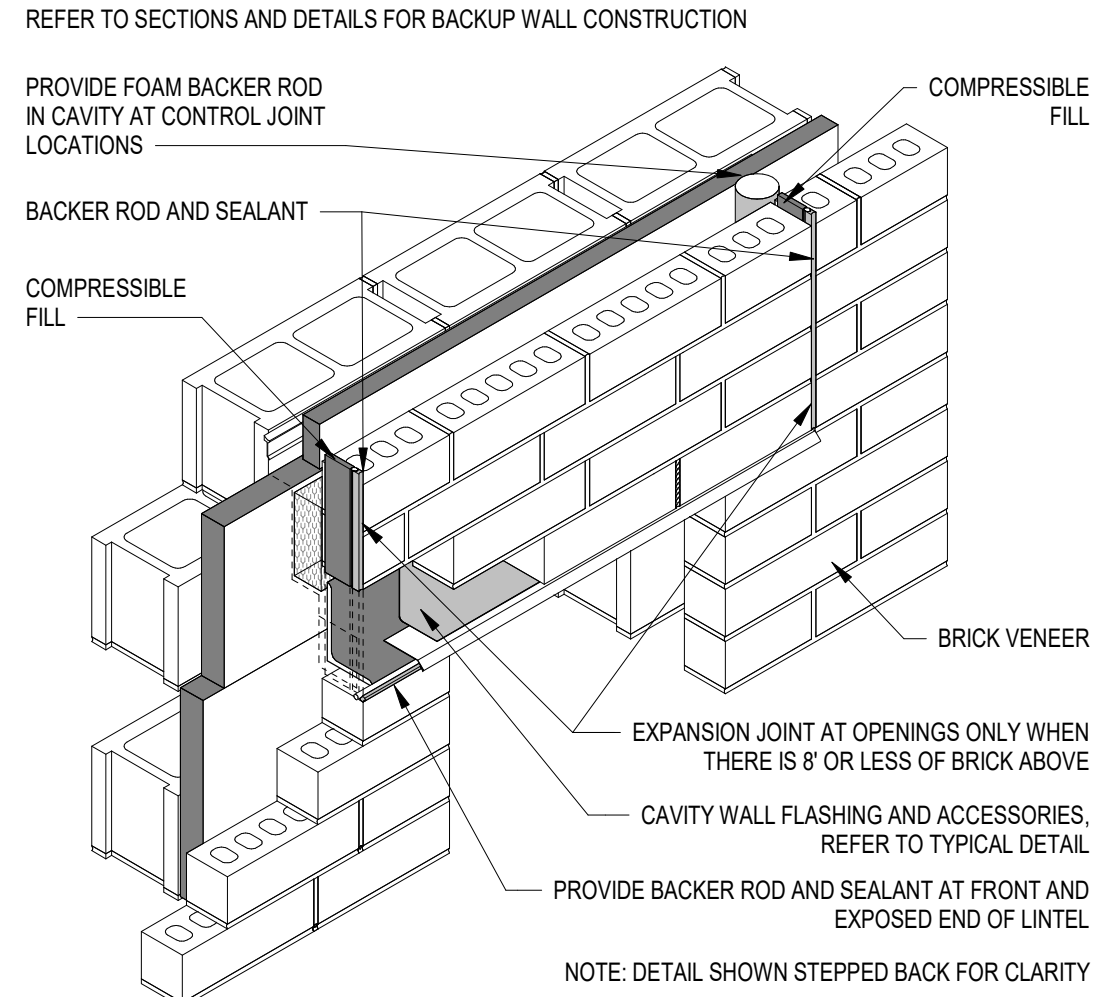


TYPICAL BRICK EXPANSION JOINT (EJ) LOCATIONS

use this set of details for steel angle lintels bearing from brick to brick  
REFER TO SECTIONS AND DETAILS FOR BACKUP WALL CONSTRUCTION

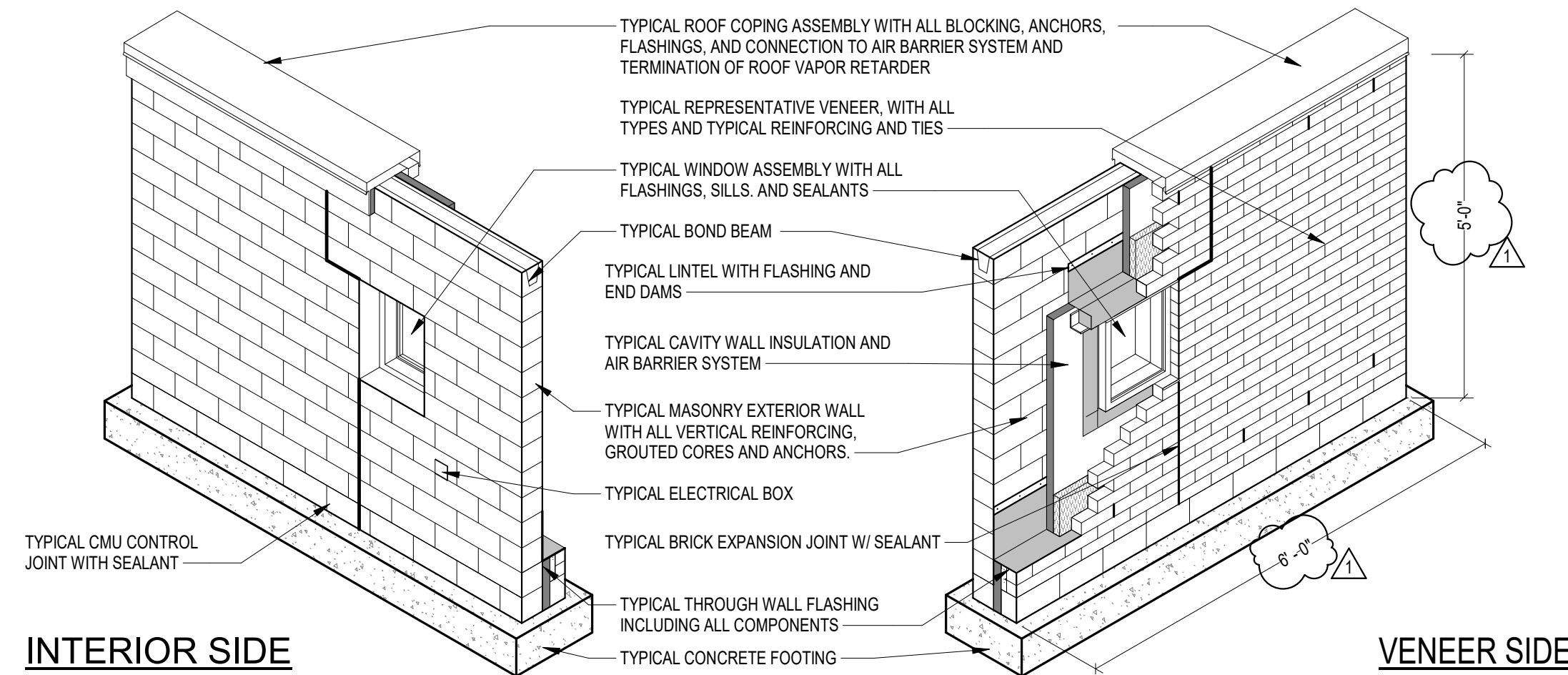


TYPICAL BRICK EXPANSION JOINT DETAIL



TYPICAL BRICK EXPANSION JOINT AT OPENINGS

1 TYPICAL BRICK EXPANSION JOINTS  
NOT TO SCALE



INTERIOR SIDE

2 EXTERIOR WALL MOCK-UP  
NOT TO SCALE

VENEEr SIDE

PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

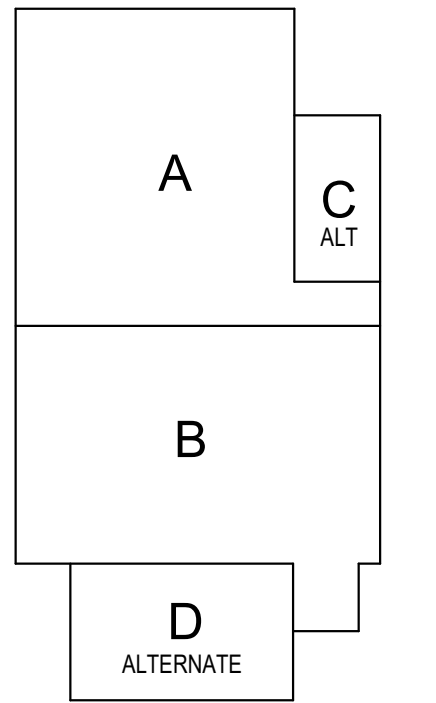
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

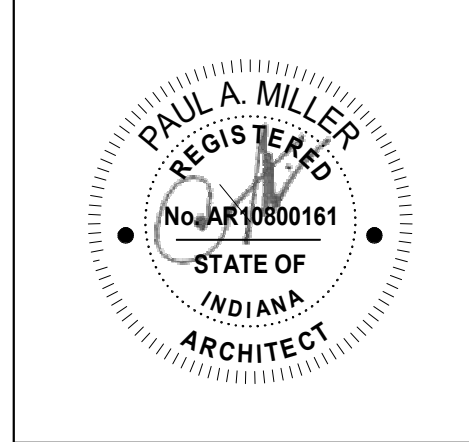
FANNING HOWEY

317.848.0966 WWW.FHAI.COM  
350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



KEY PLAN

Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: Author  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

DETAILS

A-501





# PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

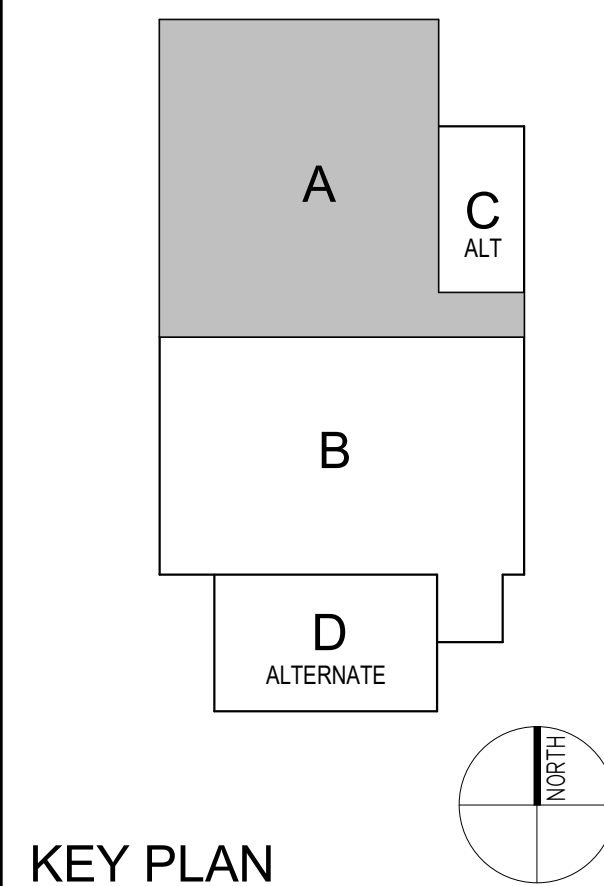
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

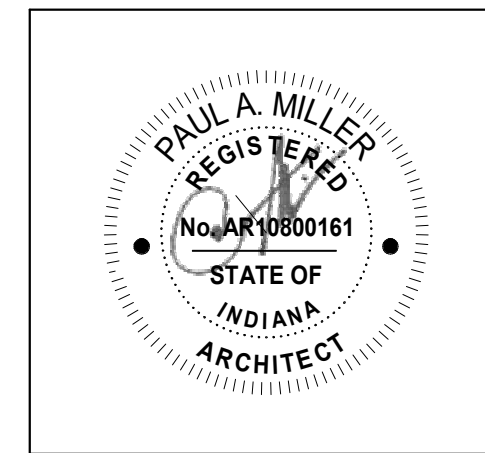
## FANNING HOWEY

317.848.0966 WWW.FHAI.COM  
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KEY PLAN

Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

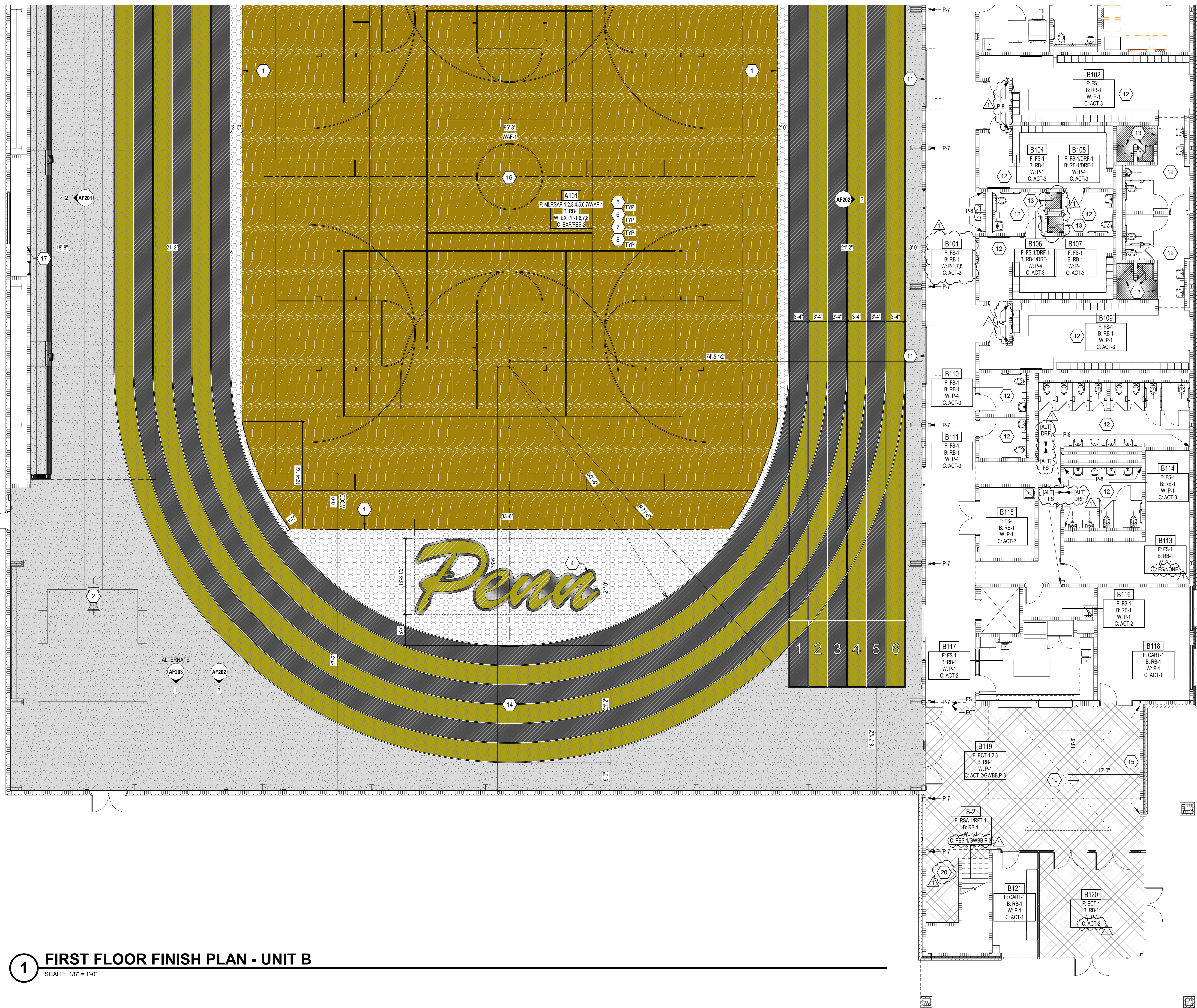
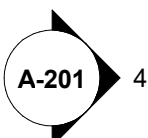
REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

FIRST FLOOR FINISH PLAN - UNIT A

# AF11A

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	296 SF
A104	TRAINING	416 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1,163 SF
B102	LOCKER ROOM #1	399 SF
S-1	STAIR	81 SF

INDOOR TRACK & FIELD EVENTS THAT SHALL BE ACCOMMODATED WITH MARKINGS (NOT SHOWN) FOR HIGH SCHOOL SPORTS ARE AS FOLLOWS:  
50M  
100M  
200M  
400M  
800M  
1600M  
3200M  
6400M  
12800M  
25600M  
51200M  
102400M  
204800M  
409600M  
819200M  
1638400M  
3276800M  
6553600M  
13107200M  
26214400M  
52428800M  
104857600M  
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419430400M  
838860800M  
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1413477559320551613751047288902400932577280015564800728064001542983626668800M  
282695511864110322750209457780480018651545600311296001485967253337600M  
565391023728220645500418915560960037303091200622592002



**1 FIRST FLOOR FINISH PLAN - UNIT B**  
SCALE: 1/8" = 1'-0"

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A106	ELECTRICAL	182 SF
A108	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1,163 SF
B102	LOCKER ROOM #1	369 SF
B103	SHOWER	184 SF
B104	DRESSING ROOM #1	261 SF
B105	TOILET	74 SF
B106	TOILET	75 SF
B107	DRESSING ROOM #2	270 SF
B108	SHOWER	184 SF
B109	LOCKER ROOM #2	401 SF
B110	TOILET	63 SF
B111	TOILET	63 SF
B112	GIRLS RESTROOM	388 SF
B113	FIRE RISER	304 SF
B114	BOYS RESTROOM	270 SF
B115	STORAGE	127 SF
B116	CUSTODIAN	68 SF
B117	CONCESSION	263 SF
B118	OFFICE	341 SF
B119	LOBBY	1,039 SF
B120	VESTIBULE	360 SF
B121	SRO OFFICE	157 SF
S-2	STAIR	115 SF

- GENERAL FINISH NOTES**
- A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
- B. PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO DISSIMILAR FLOORING MATERIAL.
- C. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEADS/OFFIT COLOR INDICATED (UNO).
- D. REFER TO AF601 FOR MATERIAL SELECTIONS.
- E. REFER TO FINISH PLANS FOR ACCENT WALL LOCATIONS.
- F. "PAINT TYPE GENERAL NOTES" IS A COMPREHENSIVE MATERIALS LIST AND SOME MATERIALS MAY NOT BE APPLICABLE FOR THIS SCHOOL.
- G. INTERIOR PAINTING: PAINTING OF EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, HANGERS, SUPPORTS, BRACING, ETC WHICH OCCURS IN SPACES TO BE PAINTED SHALL BE INCLUDED UNDER SPEC SECTION 09 91 23.
- H. SURFACES TO BE PAINTED WITH HIGH-PERFORMANCE COATINGS SHALL BE INCLUDED UNDER SPEC SECTION 09 96 00.
- I. PAINTING OF EXPOSED STRUCTURE (PES), SHALL INCLUDE ALL EXPOSED ELEMENTS AND MATERIALS UNLESS NOTED OTHERWISE.
- J. (ES) INDICATES EXPOSED STRUCTURE, TO REMAIN UNPAINTED.
- GENERAL NOTES FOR INTERIOR PAINTING SCOPE**
- A. PAINT ALL INTERIOR WALLS P-1, UNLESS OTHERWISE NOTED ON PLANS OR INTERIOR ELEVATIONS.
- B. PAINT ALL EXPOSED SIDES OF GWB BULKHEADS P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.
- C. PAINT ALL GWB CEILING P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.
- D. PAINT ALL HOLLOW METAL DOORS, DOOR FRAMES OR WINDOW FRAMES P-2, INCLUDING ANY EXTERIOR SIDES OF HOLLOW METAL DOORS AND FRAMES.
- E. PAINT ALL EXPOSED STEEL COLUMNS. REFER TO PLANS FOR COLOR SELECTIONS.
- F. PAINT ALL ACCESS PANELS THE SAME COLOR AS ADJACENT SURFACES.
- G. PAINT ALL EXPOSED WIREMOLD AND CONDUIT THE SAME COLOR AS ADJACENT SURFACES.
- H. PAINT ALL EXPOSED INTERIOR STRUCTURAL LINTELS. (EXP) INDICATES EXPOSED BUILDING MATERIALS, FACTORY FINISHED REQUIRES NO ON-SITE FINISHING.
- I. REFER TO AF601 FOR PAINT TYPE GENERAL NOTES.

- FLOOR PATTERN/FINISH KEY NOTES**
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
1. WOOD FLOOR TRANSITION DETAIL, SEE DETAIL 11A02
2. POLE VAULT VAULTING BOX SHALL HAVE MLRSF-5 FLOORING IN LID COVER.
3. LONG JUMP WITH PIT COVER SHALL HAVE MLRSF-5 FLOORING IN LID COVER.
4. "PENN" LOGO TO BE CUT INTO MLRSF FLOORING, ARCHITECT TO PROVIDE LOGO.
5. PAINT FRAMES AND END WALL COLUMNS SHALL BE PAINTED P-7.
6. PURLINS AT CEILING SHALL BE PAINTED P-6.
7. GIRTS EXPOSED SHALL BE PAINTED P-6.
8. REFER TO EQUIPMENT PLANS FOR COURT MARKINGS AND ADDITIONAL INFORMATION.
9. PAINTED LONG JUMP MARKINGS.
10. SCHOOL LOGO CUT INTO ECT. SEE 71A072 COURT LINE DETAILS FOR MORE INFORMATION.
11. AT THE OVERHEAD DOOR, THE MLRSF-5 SHALL STOP PRIOR TO THE DOOR TRACK WITH A TRANSITION STRIP.
12. BASE BID FINISHES AS SHOWN IN FINISH BOX; ALTERNATE BID TO INCLUDE DRF-1 FLOOR AND DRF-1 BASE.
13. DRF-1 SHOWER CURB, REFER TO DETAIL 11AF601 REFER TO TEXT BOX ON PLANS FOR TRACK EVENT MARKINGS.
14. FUTURE GRAPHIC ON THIS WALL, KEEP CLEAR OF DEVICES WHERE POSSIBLE.
15. REFER TO DETAIL 11A072 COURT LINE DETAILS FOR ATHLETIC LOGO INFORMATION.
16. (ALTERNATE) CONSTRUCT PARTIAL-HEIGHT CMU WALLS AS SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE.
17. INSTALL 50% CART-1 AND 50% CART-2 IN ASHLAR PATTERN.
18. INSTALL CART-2 INSIDE DASHED LINE AREA AND CART-1 OUTSIDE DASHED LINE AREA TO BE ASHLAR INSTALL.
19. PAINT GIB ON UNDERSIDE OF STAIR, P-3.
20. PAINTED LONG UNIFIED JUMP MARKINGS, 1M DISTANCE FROM PIT.
21. BASE BID: EXTEND FLOOR FINISH TO EXTERIOR WALL.

FINISH LEGEND		
	MLRSF-1 (FIELD COURT COLOR)	MLRSF-7 (LOGO)
	MLRSF-2 (TRACK)	WAF-1 (WOOD FLOOR)
	MLRSF-3 (TRACK)	ECT-1 (WALK-OFF CARPET)
	MLRSF-4 (COURTS)	DRF-1 (BASE BID)
	MLRSF-5 (FIELD TRACK COLOR)	RFT-1
	MLRSF-6 (LOGO)	

**VERIFICATION NOTE**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

### PENN-HARRIS-MADISON SCHOOL CORPORATION

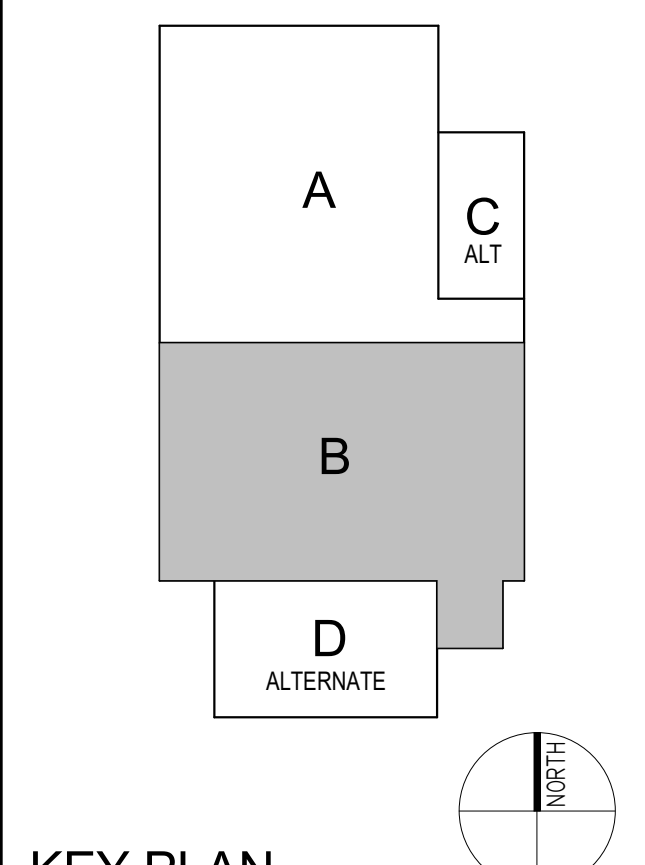


ARCHITECT

## FANNING HOWEY

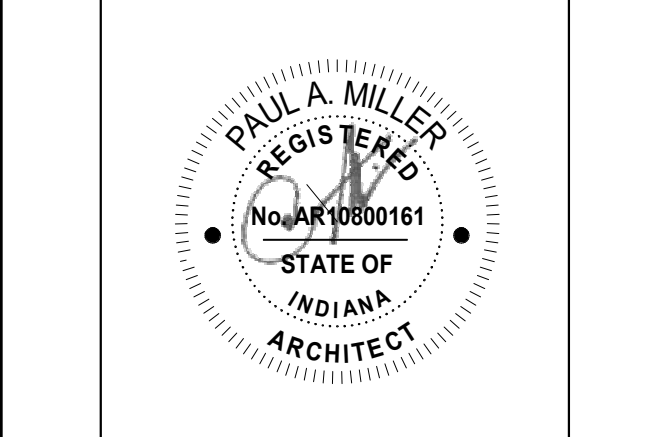
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



### KEY PLAN

#### Construction Documents



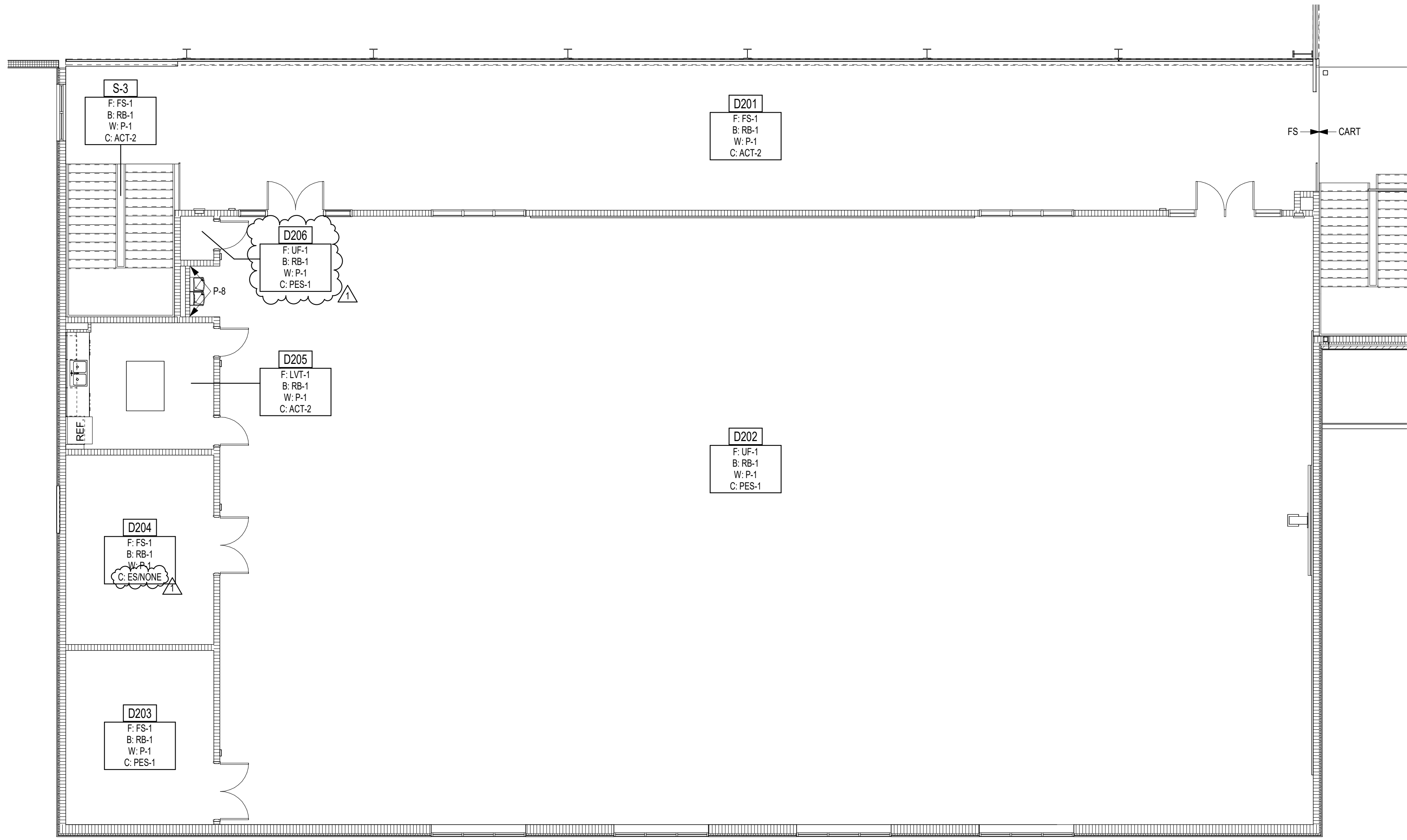
PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

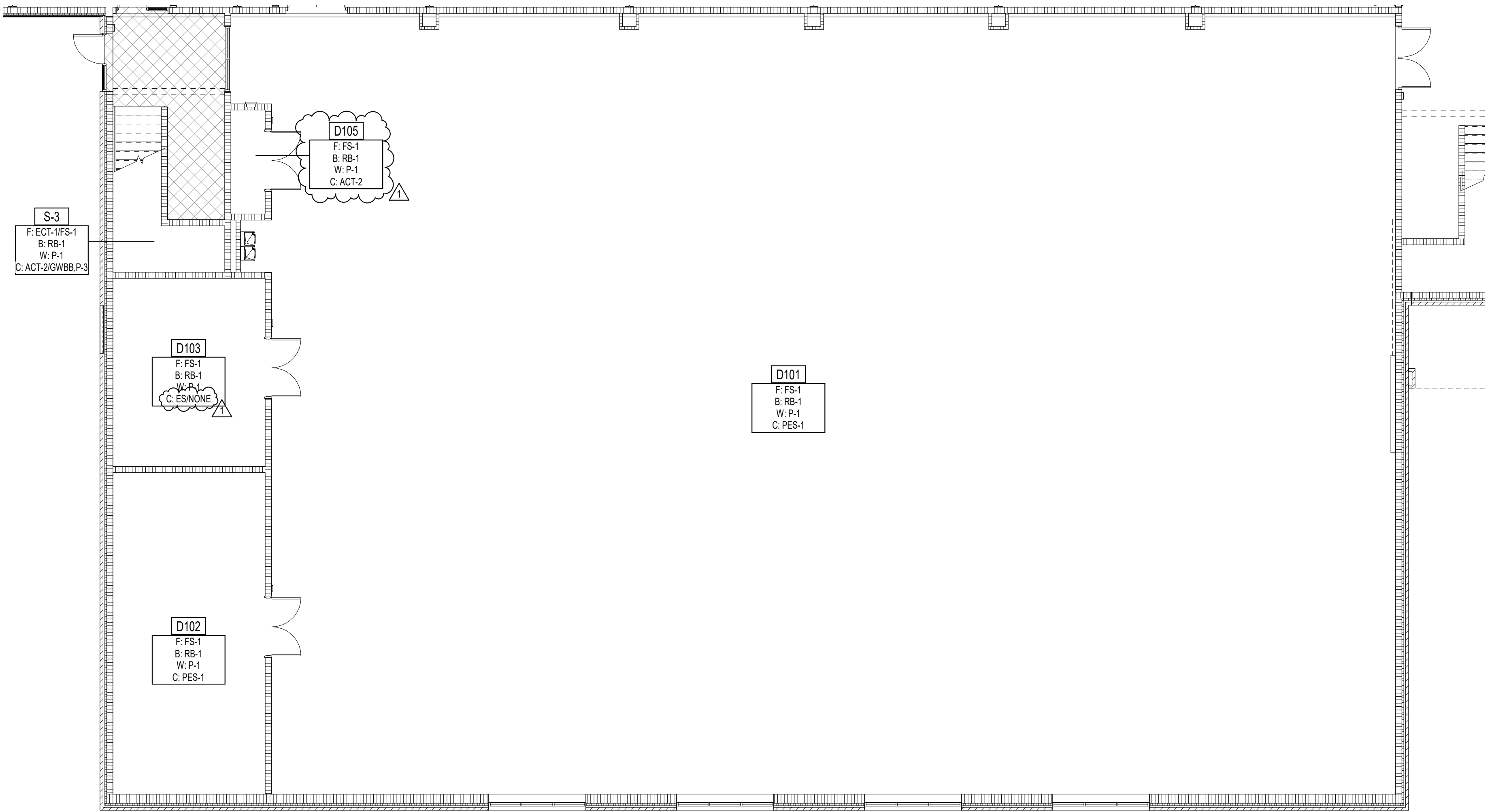
#### FIRST FLOOR FINISH PLAN - UNIT B

# AF11B

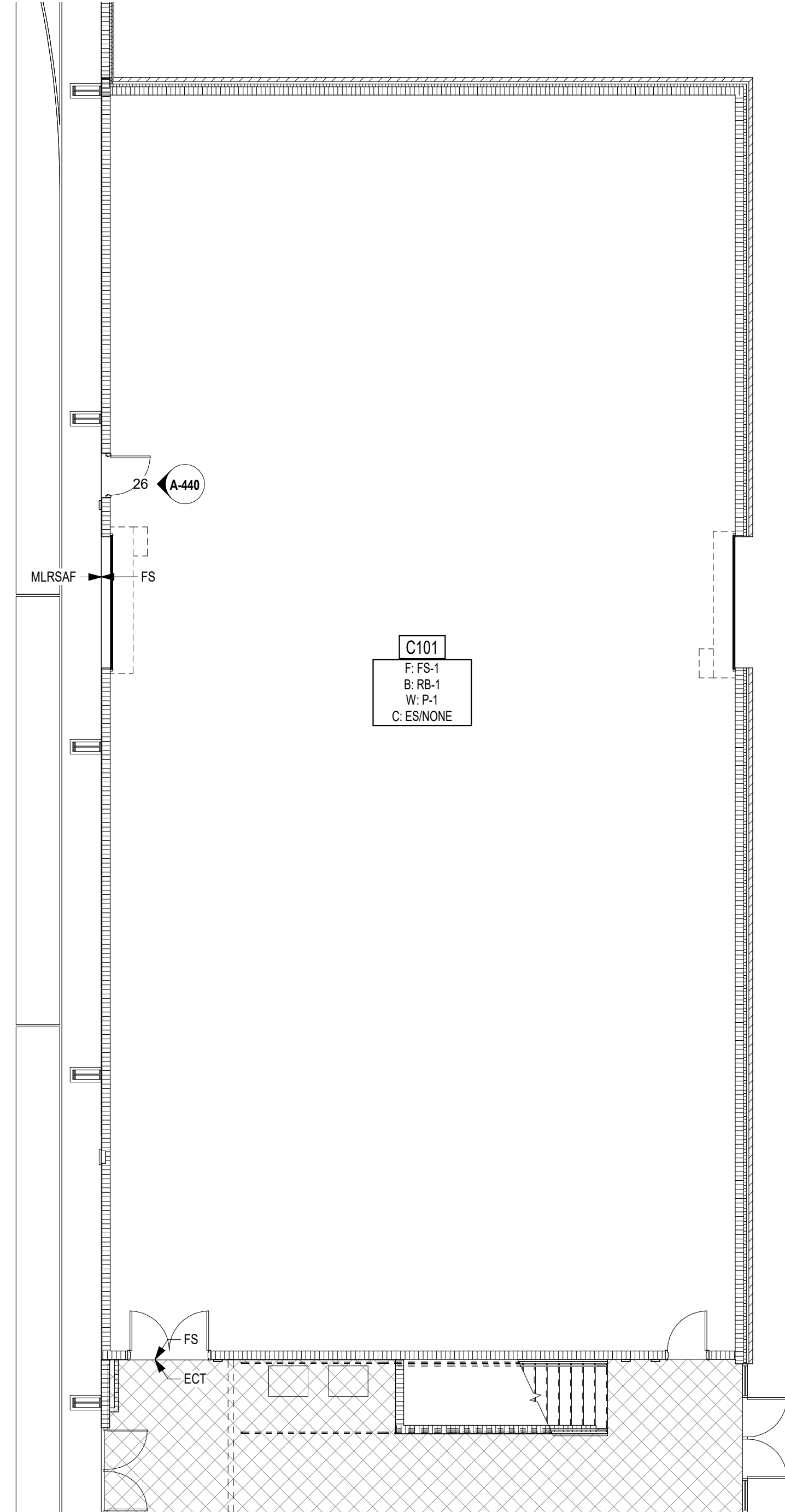
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**3 SECOND FLOOR FINISH PLAN ALTERNATE - UNIT B**  
SCALE: 1/8" = 1'-0"



**2 FIRST FLOOR FINISH PLAN ALTERNATE - UNIT B**  
SCALE: 1/8" = 1'-0"



**1 FIRST FLOOR FINISH PLAN ALTERNATE - UNIT A**  
SCALE: 1/8" = 1'-0"

ROOM LEGEND UNIT C		
ROOM NO.	ROOM NAME	AREA (SF)
C101	STORAGE	4,561 SF

ROOM LEGEND UNIT D		
ROOM NO.	ROOM NAME	AREA (SF)
D101	WRESTLING	9,337 SF
D102	STORAGE	519 SF
D103	MECHANICAL	303 SF
D104	VESTIBULE	104 SF
D105	SOUND CLOSET	38 SF
D201	OBSERVATION	1,996 SF
D202	DANCE	7,466 SF
D203	STORAGE	289 SF
D204	MECHANICAL	314 SF
D205	KITCHENETTE	207 SF
D206	SOUND CLOSET	16 SF

- GENERAL FINISH NOTES**
- SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
  - PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO DISSIMILAR FLOORING MATERIAL.
  - PANT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
  - REFER TO AF601 FOR MATERIAL SELECTIONS.
  - REFER TO FINISH PLANS FOR ACCENT WALL LOCATIONS.
  - "PAINT TYPE GENERAL NOTES" IS A COMPREHENSIVE MATERIALS LIST AND SOME MATERIALS MAY NOT BE APPLICABLE FOR THIS SCHOOL.
  - INTERIOR PAINTING: PAINTING OF EXPOSED POLES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, HANGERS, SUPPORTS, BRACING, ETC WHICH OCCURS IN SPACES TO BE PAINTED SHALL BE INCLUDED UNDER SPEC SECTION 09 91 23.
  - SURFACES TO BE PAINTED WITH HIGH-PERFORMANCE COATINGS SHALL BE INCLUDED UNDER SPEC SECTION 09 96 00.
  - PAINTING OF EXPOSED STRUCTURE (PES) SHALL INCLUDE ALL EXPOSED ELEMENTS AND MATERIALS UNLESS NOTED OTHERWISE.
  - (ES) INDICATES EXPOSED STRUCTURE, TO REMAIN UNPAINTED.

- GENERAL NOTES FOR INTERIOR PAINTING SCOPE**
- PAINT ALL INTERIOR WALLS P-1, UNLESS OTHERWISE NOTED ON PLANS OR INTERIOR ELEVATIONS.
  - PAINT ALL EXPOSED SIDES OF GWB BULKHEADS P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.
  - PAINT ALL GWB CEILING P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.
  - PAINT ALL HOLLOW METAL DOORS, DOOR FRAMES OR WINDOW FRAMES P-2, INCLUDING ANY EXTERIOR SIDES OF HOLLOW METAL DOORS AND FRAMES.
  - PAINT ALL EXPOSED STEEL COLUMNS. REFER TO PLANS FOR COLOR SELECTIONS.
  - PAINT ALL ACCESS PANELS THE SAME COLOR AS ADJACENT SURFACES.
  - PAINT ALL EXPOSED WIREMOLD AND CONDUIT THE SAME COLOR AS ADJACENT SURFACES.
  - PAINT ALL EXPOSED INTERIOR STRUCTURAL LINTELS.
  - (EXP) INDICATES EXPOSED BUILDING MATERIALS. FACTORY FINISHED REQUIRES NO ON-SITE FINISHING.
  - REFER TO AF601 FOR PAINT TYPE GENERAL NOTES.

- FLOOR PATTERN/FINISH KEY NOTES**
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- WOOD FLOOR TRANSITION DETAIL, SEE DETAIL 11/A302
  - POLE VAULT VAULTING BOX SHALL HAVE MLRSF-5 FLOORING IN LID COVER
  - LONG JUMP WITH PIT COVER SHALL HAVE MLRSF-6 FLOORING IN LID COVER
  - "PENNY LOGO TO BE CUT INTO MLRSF FLOORING. ARCHITECT TO PROVIDE LOGO
  - DOOR FRAMES AND WALL COLUMNS SHALL BE PAINTED P-7.
  - PURLINS AT CEILING SHALL BE PAINTED P-6.
  - GIRTS (EXPOSED) SHALL BE PAINTED P-6.
  - REFER TO EQUIPMENT PLANS FOR COURT MARKINGS AND ADDITIONAL INFORMATION.
  - PAINTED LONG JUMP MARKINGS
  - SCHOOL LOGO CUT INTO ECT SEE 7/AQ752 COURT LINE DETAILS FOR MORE INFORMATION.
  - AT THE OVERHEAD DOOR, THE MLRSF-5 SHALL STOP PRIOR TO THE DOOR TRACK WITH A TRANSITION STRIP
  - BASE BID FINISHES AS SHOWN IN FINISH BOX ALTERNATE BID TO INCLUDE DRP-1 FLOOR AND DRP-1 BASE
  - DRP-1 SHOWER CURB, REFER TO DETAIL 1/AF801
  - REFER TO TEXT BOX ON PLANS FOR TRACK EVENT MARKINGS.
  - FUTURE GRAPHIC ON THIS WALL, KEEP CLEAR OF DEVICES WHERE POSSIBLE
  - REFER TO DETAIL 8/AQ752 COURT LINE DETAILS FOR ATHLETIC LOGO INFORMATION.
  - (ALTERNATE) CONSTRUCT PARTIAL-HEIGHT CMU WALLS AS SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE
  - INSTALL 50% CART-1 AND 50% CART-2 IN ASHLAR PATTERN
  - INSTALL CART-2 INSIDE DASHED LINE AREA AND CART-1 OUTSIDE DASHED LINE AREA TO BE ASHLAR INSTALL
  - PANT GWB ON UNDERSIDE OF STAIR, P-3
  - PAINTED LONG UNIFIED JUMP MARKINGS, 1M DISTANCE FROM PIT
  - BASE BID: EXTEND FLOOR FINISH TO EXTERIOR WALL

FINISH LEGEND		
	MLRSF-1 (FIELD COURT COLOR)	MLRSF-7 (LOGO)
	MLRSF-2 (TRACK)	WAF-1 (WOOD FLOOR)
	MLRSF-3 (TRACK)	ECT-1 (WALK-OFF CARPET)
	MLRSF-4 (COURTS)	DRP-1 (BASE BID)
	MLRSF-5 (FIELD TRACK COLOR)	RFT-1
	MLRSF-6 (LOGO)	

**VERIFICATION NOTE**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.  
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

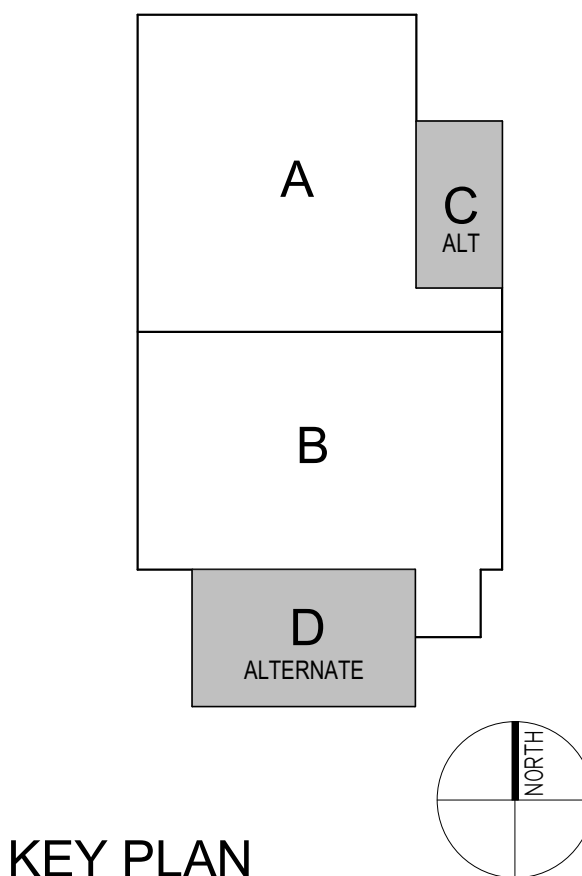
## PENN-HARRIS-MADISON SCHOOL CORPORATION



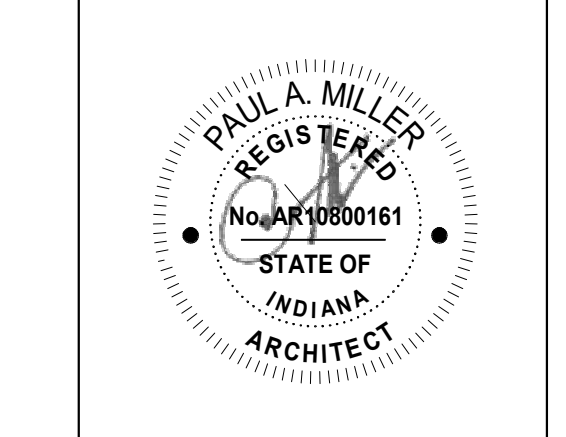
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### Construction Documents



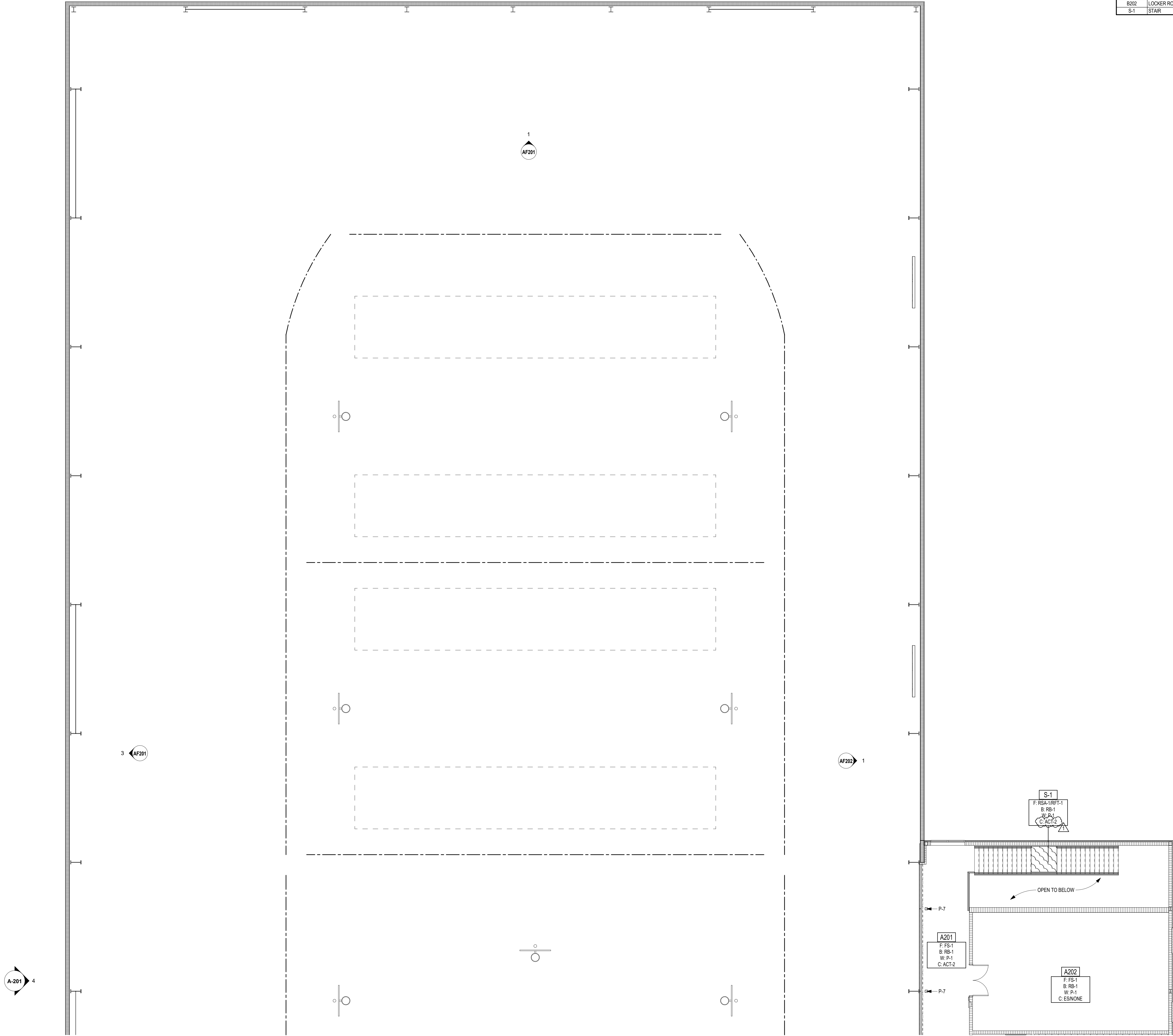
PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

### FINISH PLANS - ALTERNATES

# AF11C

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**1 SECOND FLOOR FINISH PLAN - UNIT A**  
SCALE: 1/8" = 1'-0"

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
S001	CORRIDOR	1,444 SF
S002	LOCKER ROOM #3	380 SF
S-1	STAIR	81 SF

- GENERAL FINISH NOTES**
- A. SEALANT SHALL BE APPLIED AT ALL MATERIAL TRANSITIONS, BACKSPLASHES, AND DOOR FRAMES. ALL LOCATIONS WHERE NEW FINISH ABUTS A DISSIMILAR MATERIAL.
- B. PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGE OF NEW FLOOR FINISH TO DISSIMILAR FLOORING MATERIAL.
- C. PAINT ALL SIDES (VERT. AND HORZ.) OF BULKHEAD/SOFFIT COLOR INDICATED (UNO).
- D. REFER TO AF601 FOR MATERIAL SELECTIONS.
- E. REFER TO FINISH PLANS FOR ACCENT WALL LOCATIONS.
- F. "PAINT TYPE GENERAL NOTES" IS A COMPREHENSIVE MATERIALS LIST AND SOME MATERIALS MAY NOT BE APPLICABLE FOR THIS SCHOOL.
- G. INTERIOR PAINTING: PAINTING OF EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, HANGERS, SUPPORTS, BRACING, ETC WHICH OCCURS IN SPACES TO BE PAINTED SHALL BE INCLUDED UNDER SPEC SECTION 09 91 23.
- H. SURFACES TO BE PAINTED WITH HIGH-PERFORMANCE COATINGS SHALL BE INCLUDED UNDER SPEC SECTION 09 96 00.
- I. PAINTING OF EXPOSED STRUCTURE (PES), SHALL INCLUDE ALL EXPOSED ELEMENTS AND MATERIALS UNLESS NOTED OTHERWISE.
- J. (ES) INDICATES EXPOSED STRUCTURE, TO REMAIN UNPAINTED.

- GENERAL NOTES FOR INTERIOR PAINTING SCOPE**
- A. PAINT ALL INTERIOR WALLS P-1, UNLESS OTHERWISE NOTED ON PLANS OR INTERIOR ELEVATIONS.
- B. PAINT ALL EXPOSED SIDES OF GWB BULKHEADS P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.
- C. PAINT ALL GWB CEILINGS P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.
- D. PAINT ALL HOLLOW METAL DOORS, DOOR FRAMES OR WINDOW FRAMES P-2, INCLUDING ANY EXTERIOR SIDES OF HOLLOW METAL DOORS AND FRAMES.
- E. PAINT ALL EXPOSED STEEL COLUMNS. REFER TO PLANS FOR COLOR SELECTIONS.
- F. PAINT ALL ACCESS PANELS THE SAME COLOR AS ADJACENT SURFACES.
- G. PAINT ALL EXPOSED WIREMOLD AND CONDUIT THE SAME COLOR AS ADJACENT SURFACES.
- H. PAINT ALL EXPOSED INTERIOR STRUCTURAL LINTELS. (EXP) INDICATES EXPOSED BUILDING MATERIALS, FACTORY FINISHED/REQUIRES NO ON-SITE FINISHING.
- J. REFER TO AF601 FOR PAINT TYPE GENERAL NOTES.

- FLOOR PATTERN/FINISH KEY NOTES**
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
1. WOOD FLOOR TRANSITION DETAIL, SEE DETAIL 11A502
2. POLE VAULT VAULTING BOX SHALL HAVE MLRSF-5 FLOORING IN LID COVER
3. LONG JUMP WITH PIT COVER SHALL HAVE MLRSF-5 FLOORING IN LID COVER
4. "PENN" LOGO TO BE CUT INTO MLRSF FLOORING, ARCHITECT TO PROVIDE LOGO
5. PAINT FRAMES AND END WALL COLUMNS SHALL BE PAINTED P-7
6. PURLINS AT CEILING SHALL BE PAINTED P-6
7. GIRTS (EXPOSED) SHALL BE PAINTED P-6
8. REFER TO EQUIPMENT PLANS FOR COURT MARKINGS AND ADDITIONAL INFORMATION
9. PAINTED LONG JUMP MARKINGS
10. SCHOOL LOGO CUT INTO ECT. SEE 7A0752 COURT LINE DETAILS FOR MORE INFORMATION
11. AT THE OVERHEAD DOOR, THE MLRSF-5 SHALL STOP PRIOR TO THE DOOR TRACK WITH A TRANSITION STRIP
12. BASE BID FINISHES AS SHOWN IN FINISH BOX. ALTERNATE BID TO INCLUDE DRF-1 FLOOR AND DRF-1 BASE
13. DRF-1 SHOWER CURB, REFER TO DETAIL 1A601
14. REFER TO TEXT BOX ON PLANS FOR TRACK EVENT MARKINGS
15. FUTURE GRAPHIC ON THIS WALL, KEEP CLEAR OF DEVICES WHERE POSSIBLE
16. REFER TO DETAIL 8A0752 COURT LINE DETAILS FOR ATHLETIC LOGO INFORMATION
17. (ALTERNATE) CONSTRUCT PARTIAL-HEIGHT CMU WALLS AS SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR WALL TYPE
18. INSTALL 50% CART-1 AND 50% CART-2 IN ASHLAR PATTERN
19. INSTALL CART-2 INSIDE DASHED LINE AREA AND CART-1 OUTSIDE DASHED AREA BOTH TO BE ASHLAR INSTALL
20. PAINT GWS ON UNDERSIDE OF STAIR P-3
21. PAINTED LONG UNIFIED JUMP MARKINGS, 1M DISTANCE FROM PIT
22. BASE BID: EXTEND FLOOR FINISH TO EXTERIOR WALL

FINISH LEGEND		
	MLRSF-1 (FIELD COURT COLOR)	MLRSF-7 (LOGO)
	MLRSF-2 (TRACK)	WAF-1 (WOOD FLOOR)
	MLRSF-3 (TRACK)	ECT-1 (WALK-OFF CARPET)
	MLRSF-4 (COURTS)	DRF-1 (BASE BID)
	MLRSF-5 (FIELD TRACK COLOR)	RFT-1
	MLRSF-6 (LOGO)	

**VERIFICATION NOTE**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.  
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

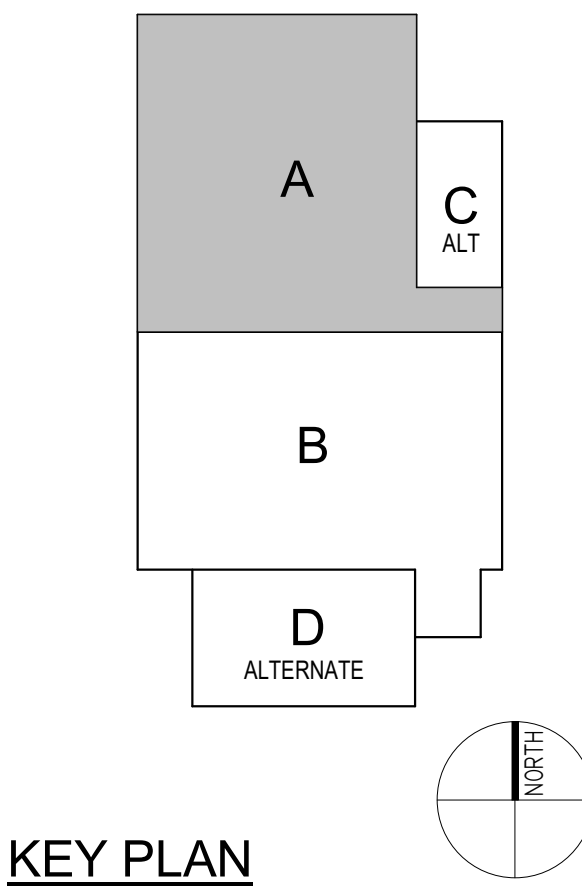
## PENN-HARRIS-MADISON SCHOOL CORPORATION



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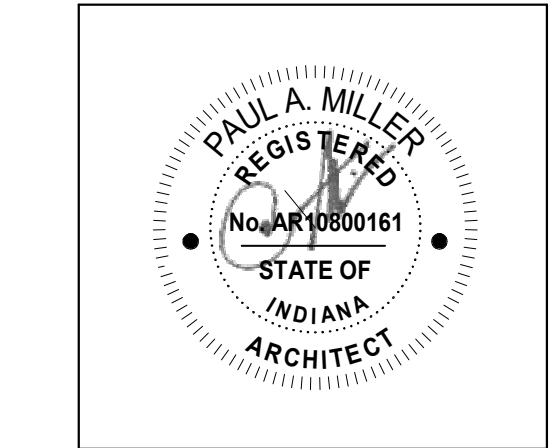
## FANNING HOWEY

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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



### KEY PLAN

### Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

### SECOND FLOOR FINISH PLAN - UNIT A

## AF12A

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**

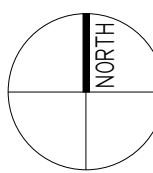


**FANNING  
HOWEY**

Diagram illustrating a 2D array structure with 4 rows and 3 columns. The cells are labeled as follows:

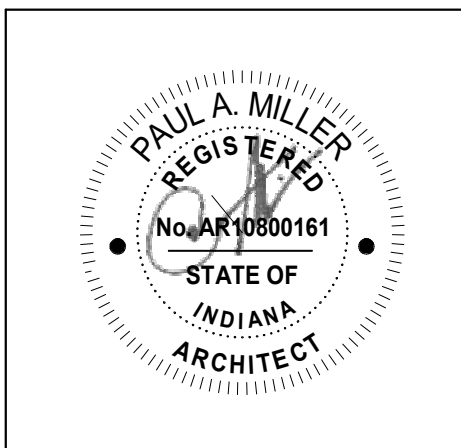
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- Row 2: A, B, C
- Row 3: A, B, C
- Row 4: D, E, F

The cell containing 'C' in Row 2, Column 3 is highlighted in gray and labeled 'ALT' below it.



## KEY PLAN

## Construction Documents



REV. \_\_\_\_\_

[illegible]

# AF12B

### GENERAL FINISH NOTES

- A. SEALANT SHALL BE APPLIED AT ALL DOOR THRESHOLDS, TRANSOMS, BACKSLIPS, AND DOOR FRAMES. ALL LOCATIONS WHERE THERE ARE FINISH ASSETS A DISSIMILAR MATERIAL.
- B. PROVIDE NEW RESILIENT TRANSITION STRIPS AT EXPOSED EDGES OF FLOOR FINISH TO DISSIMILAR FLOORING.
- C. PAINT ALL SIDES (VERT AND HORIZ) OF BULKHEAD/SOFFIT AND INTERIOR PARTING WALLS.
- D. REFER TO A601 FOR MATERIAL SELECTIONS.
- E. REFER TO FINISH PLANS FOR ACCENT WALL LOCATIONS.
- F. INTERIOR PARTING WALLS, NOTE: EVIDENCE OF MATERIAL LIST AND SOME MATERIALS MAY NOT BE APPLICABLE FOR THIS SCHOOL.
- G. INTERIOR PARTING WALLS: EXPOSED PORTS, HANGERS, BREACHING, CONDUIT, INSULATED PIPES, DUCTWORK, SUPPORTS, BRACING, ETC. WHICH OCCURS IN SPACES NOT PAINTED SHALL BE INCLUDED UNDER SPEC SECTION 09 12 13.
- H. SURFACES TO BE PAINTED WITH UNIFORM PERFORMANCE COATING SHALL BE INCLUDED UNDER SPEC SECTION 09 10 00.
- I. PAINTING OF EXPOSED STRUCTURE (PES), SHALL INCLUDE ALL EXPOSED ELEMENTS AND MATERIALS UNLESS NOTED OTHERWISE.
- J. (ES) INDICATES EXPOSED STRUCTURE, TO REMAIN UNPAINTED.

### GENERAL NOTES FOR INTERIOR PAINTING SCOPE








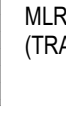
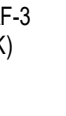

- |   |   |
|---|---|
| A | PAINT ALL INTERIOR WALLS P-1, UNLESS OTHERWISE NOTED ON PLANS OR INTERIOR ELEVATIONS.   |
| B | PAINT ALL EXPOSED SIDES OF GWB BULKHEADS P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.                       |
| C | PAINT ALL GWB CEILINGS P-3, UNLESS OTHERWISE INDICATED ON THE PLANS OR INTERIOR ELEVATIONS.   |
| D | PAINT ALL HOLLOW METAL DOORS, DOOR FRAMES OR HOLLOW METAL PARTS P-2, INCLUDING THE EXTERIOR SIDES OF HOLLOW METAL DOORS AND FRAMES. |
| E | PAINT ALL EXPOSED STEEL COLUMNS. REFER TO PLANS FOR COLOR SELECTIONS.   |
| F | PAINT ALL ACCESS PANELS THE SAME COLOR AS ADJACENT SURFACES.  |
| G | PAINT ALL EXPOSED WIREMOLD AND CONDUIT THE SAME COLOR AS ADJACENT SURFACES.   |
| H | PAINT ALL EXPOSED INTERIOR STRUCTURAL LUMENAL.  |
| I | PAINT ALL JOINTS EXPOSED TO FINISH MATERIALS, FACTORY FINISHED/ REQUIRES NO ON-SITE FINISHING                                       |
| J | REFER TO A601 FOR NON-PAINT TYPE GENERAL NOTES.   |

FLOOR PATTERN/FINISH KEY NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- 2 WOOD FLOOR TRANSITION DETAIL. SEE DETAIL #11A052  
3 PLEIN VALUET VAILTING BOX SHALL HAVE MURS&S-  
4 FLOORING FLOCHER.  
5 LONG JUMP WITH PIVOT COVER SHALL HAVE MURS&S-  
6 FLOORING AND COVER.  
7 "PENN" LOGO TO BE CUT INTO MURS&S FLOORING.  
8 PROJECT TO PROVIDE LOGO.  
9 WALL MARKERS AND LINE COLUMNS SHALL BE PAINTED  
10 P-7.  
11 PURLINS AT GELINGS SHALL BE PAINTED P-6.  
12 GIRTS (SPORED) SHALL BE PAINTED P-6.  
13 REFER TO EQUIPMENT PLANS FOR COURT MARKINGS AND  
14 ADDITIONAL INFORMATION.  
15 PAINTED LONG JUMP MARKINGS  
16 SCHOOL LOGO CUT INTO ECT. SEE #1A072/SR COURT  
17 DETAILS FOR MORE INFORMATION.  
18 AT THE OVERHEAD DOOR, THE MURS&S-5 SHALL STOP PRIOR  
19 TO THE DOOR TRACK WITH A TRANSITION STRIP.  
20 BASES FOR 1" X 2" SHOWERS SHALL ALTERNATE BY  
21 TO INCLUDE DFR-1 FLOOR AND DFR-1 BASE.  
22 DFR-1 SHOWER CURB. REFER TO DETAIL #1A061  
23 REFER TO TEXT BOX ON PLANS FOR COURT EVENT  
24 MARKINGS.  
25 FUTURE GRAPHING ON THIS WALL, KEEP CLEAR OF DEVICES  
26 WHERE POSSIBLE.  
27 REFER TO DETAIL #1A072/SR COURT LINE DETAILS FOR  
28 ATHLETIC LOGO INFORMATION.  
29 [ALTERNATE] CONSTRUCT PARTIAL-HEIGHT CMU WALLS AS  
30 SHOWN, REFER TO ARCHITECTURAL DRAWINGS FOR WALL  
31 TYPE.  
32 INSTALL 50% CANT-1 AND 50% CANT-2 LINE AND ASHLAR  
33 INSTALL CANT-2 INSIDE DASHED LINE AREA ON CANT-1  
34 OUTSIDE DASHED AREA. BOTH TO BE ASHLAR INSTALL.  
35 PAINT GWS ON UNDERSIDE OF STAIR, P-3.  
36 PAINTED LONG UNIFIED JUMP MARKINGS, 10" DISTANCE FROM  
37 PIT.  
38 BASE BID. EXTEND FLOOR FINISH TO EXTERIOR WALL

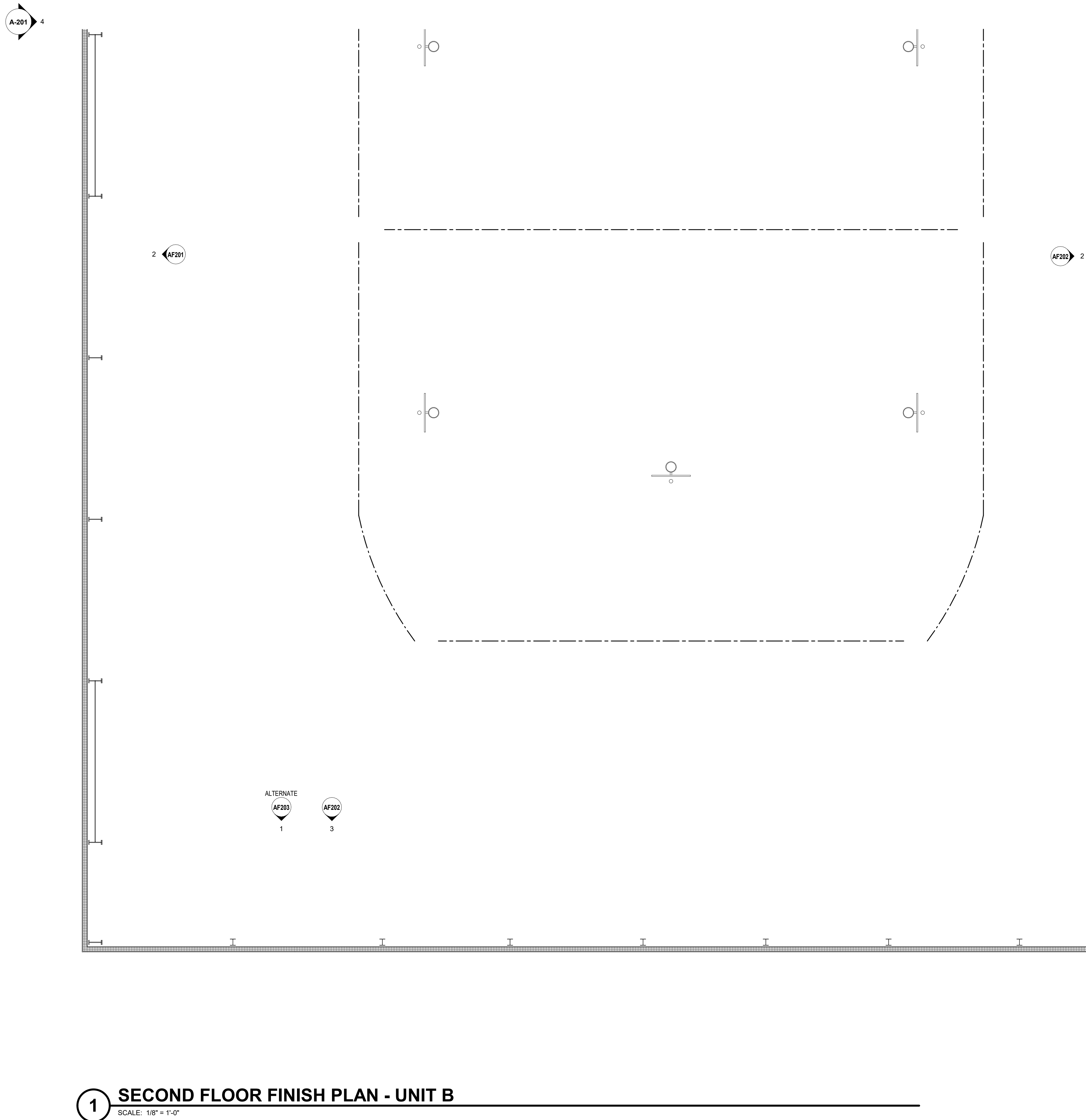
## FINISH LEGEND

	MLRSF-1 (FIELD COURT COLOR)		MLRSF-2 (TRACK)		WAF-1 (WOOD FLOOR)
	MLRSF-3 (TRACK)		ECT-1 (WALK-OFF CARPET)		MLRSF-4 (COURTS)
	MLRSF-5 (FIELD TRACK COLOR)		DRF-1 (BASE BIC)		RFT-1
	MLRSF-6 (LOGO)				

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

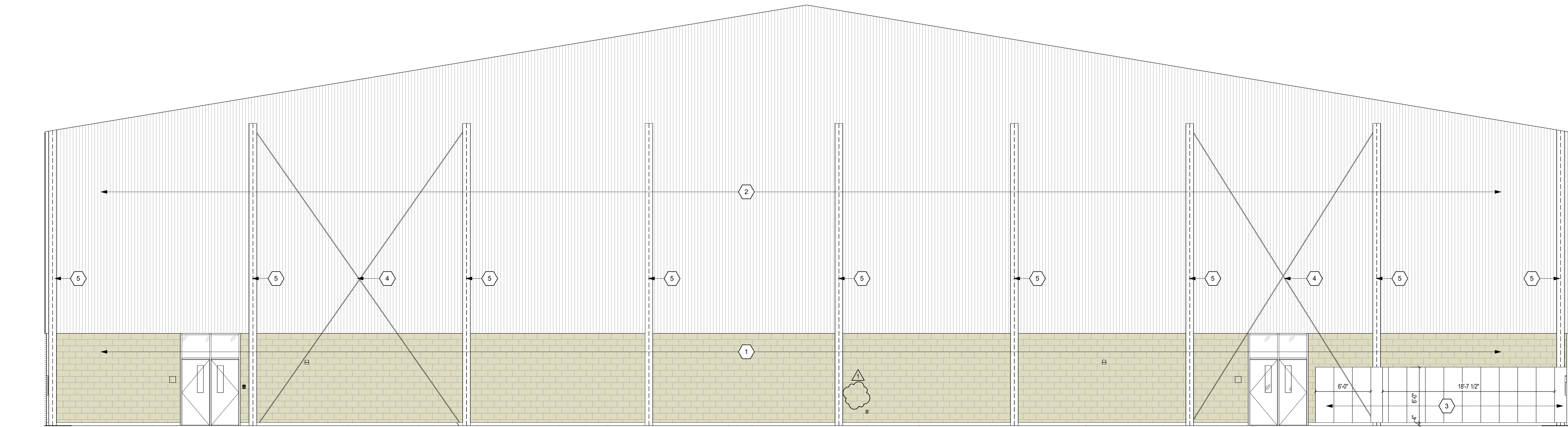
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



## SECOND FLOOR FINISH PLAN - UNIT B

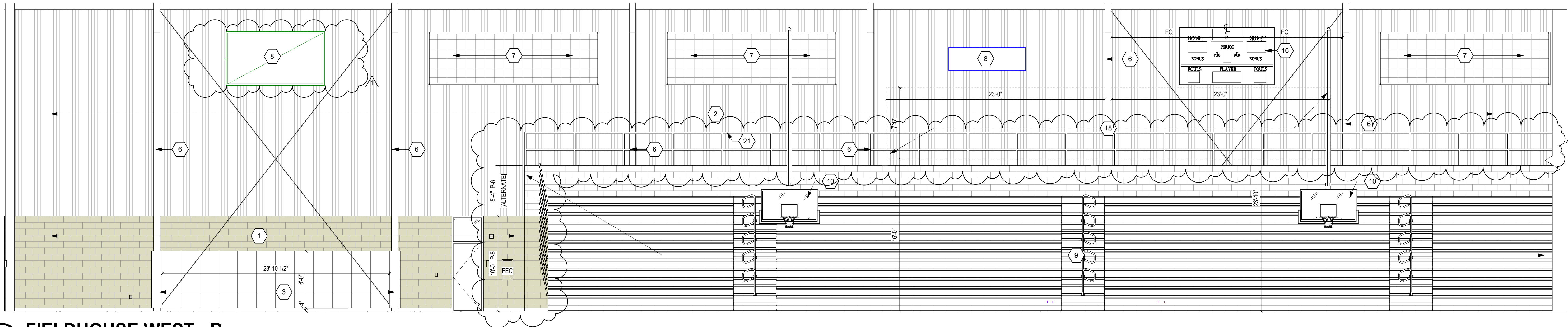
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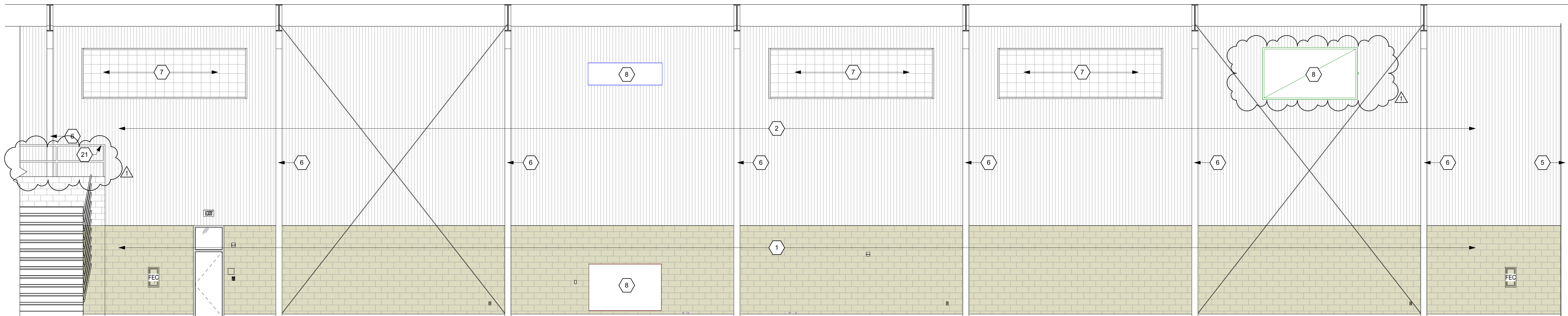
### 1 FIELDHOUSE - NORTH

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



### 2 FIELDHOUSE WEST - B

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



### 3 FIELDHOUSE WEST - A

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

#### INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- CMU TO BE PAINTED P-8
- BASE BID TO BE VINYL-FACED BATT INSULATION, ALTERNATE TO BE METAL LINER PANEL, PAINT EXPOSED GRTS, P-8
- P-8 ATHLETIC EQUIPMENT, WALL PADDING
- PAINT EXPOSED METAL BRACING, P-7
- END COLUMNS, TO BE PAINTED P-7
- MAIN FRAMES, TO BE PAINTED P-7
- POLYCARBONATE WINDOW, REFER TO A1 SERIES
- MECHANICAL GRILLE OR DUCT, REFER TO M-SERIES DRAWINGS
- (ALTERNATE) INSTALL TELESCOPING BLEACHERS AND CMU WALLS AS SHOWN, REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION, BASE BID TO INCLUDE CONTINUATION ADJACENT WALL TYPES AND MAINFRAMES, REFER TO DETAIL 10/KQ751 FOR BLEACHER GRAPHIC INFORMATION.
- P-1 ATHLETIC EQUIPMENT, BASKETBALL GOAL
- SCOREBOARD, TYPE 1
- SCOREBOARD, TYPE 2
- ALUMINUM WIRE MESH DECORATIVE METAL RAILING SYSTEM, FACTORY FINISHED, MATCH P-7
- OVERHEAD COLLING GRILLE, REFER TO ARCHITECTURAL DRAWINGS
- WINDOW, REFER TO ARCHITECTURAL DRAWINGS
- SCOREBOARD, TYPE 2, MOUNTED TO METAL LINER PANEL
- CONTROL PANEL FOR FAN UNITS, REFER TO M-SERIES DRAWINGS
- (ALTERNATE) LARGE SCALE GRAPHIC, PAINTED ON WALL SUBSTRATE, GRAPHIC TO BE 2-COLOR SCRIPT FONT, SPELLING "KINGSMEY", GRAPHIC SHALL BE PART OF THE METAL LINER PANEL, ALTERNATE AND FINAL LOCATION IS TO BE DETERMINED
- GLAZED DECORATIVE METAL RAILING SYSTEM, FACTORY FINISHED, FRAME TO MATCH P-7
- STEEL TUBE AT BOTTOM OF RAILING, PAINT P-7
- (ALTERNATE) FACTORY-FINISHED ALUMINUM RAILING
- P-10 ATHLETIC EQUIPMENT, EQUIPMENT CONTROL PANEL

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## PENN HIGH SCHOOL FIELDHOUSE

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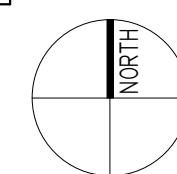
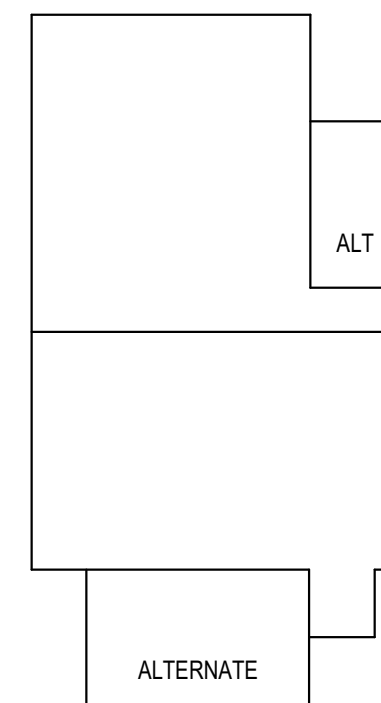
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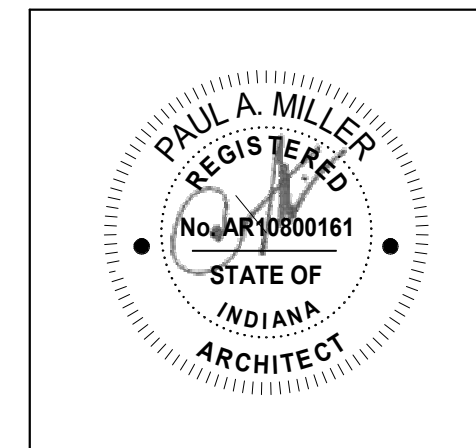
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Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

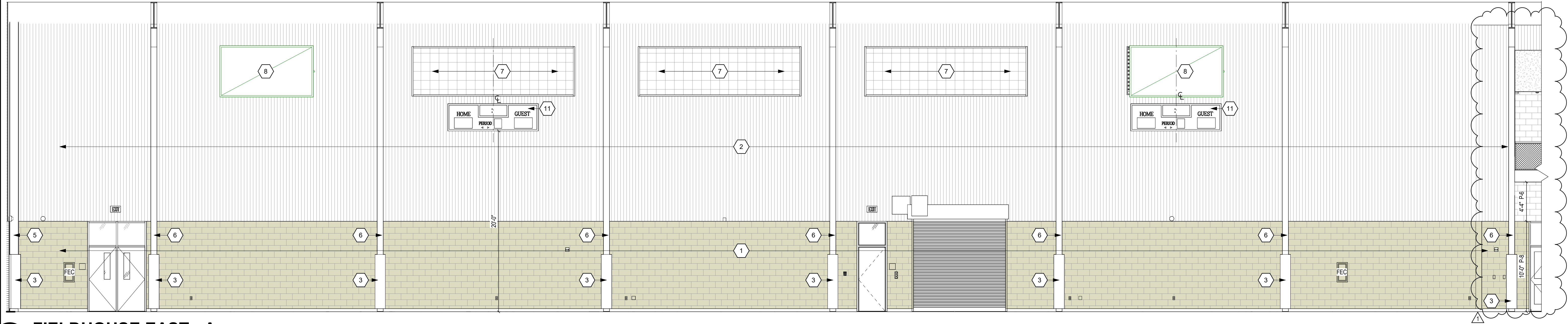
#### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

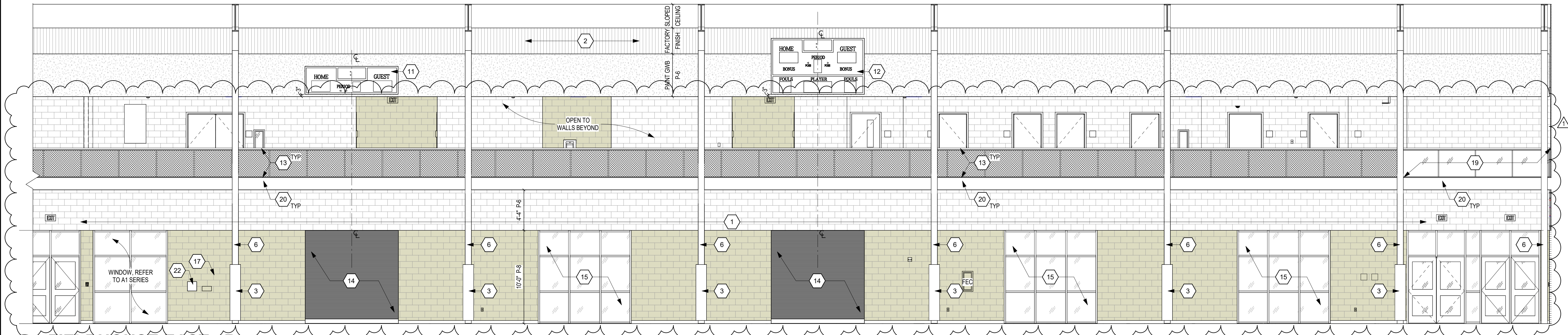
INTERIOR ELEVATIONS

## AF201



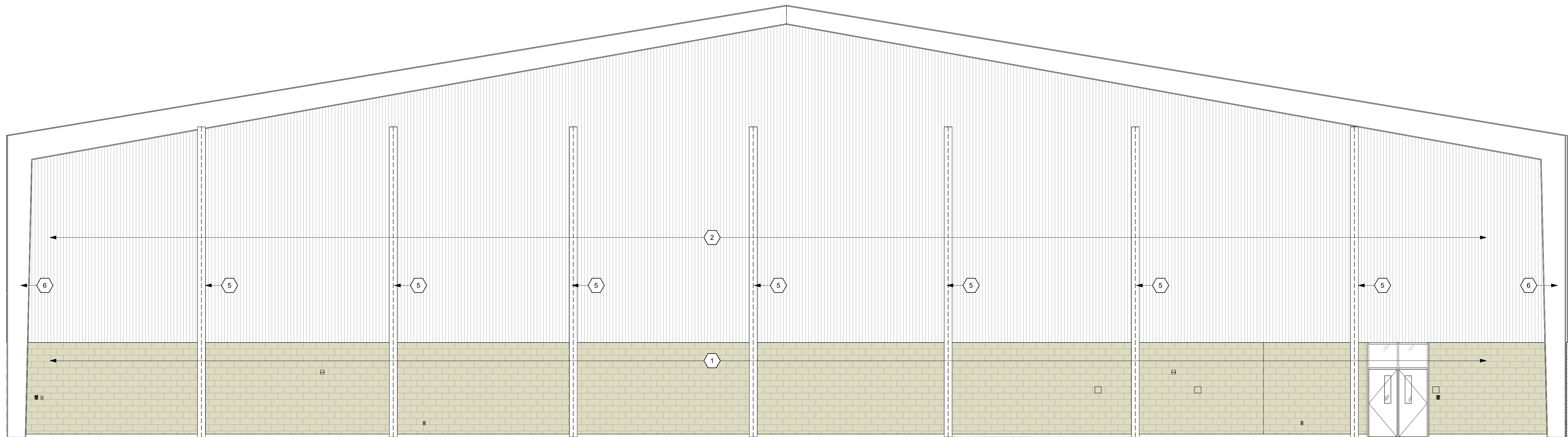
1 FIELDHOUSE EAST - A

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



2 FIELDHOUSE EAST - B

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



3 FIELDHOUSE - SOUTH

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

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- CMU TO BE PAINTED P-8
- BASE BID TO BE VINYL-FACED BATT INSULATION, ALTERNATE TO BE METAL LINER PANEL. PAINT EXPOSED GRTS. P-8
- P-8 ATHLETIC EQUIPMENT, WALL PADDING
- PAINT EXPOSED METAL BRACING, P-7
- END COLUMNS, TO BE PAINTED P-7
- MAIN FRAMES, TO BE PAINTED P-7
- POLYCARBONATE WINDOW, REFER TO A1 SERIES
- MECHANICAL GRILLE OR DUCT, REFER TO M SERIES DRAWINGS
- (ALTERNATE) INSTALL TELESCOPING BLEACHERS AND CMU WALLS AS SHOWN, REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. BASE BID TO INCLUDE CONTINUATION ADJACENT WALL TYPES AND MAINFRAMES. REFER TO DETAIL 100A751 FOR BLEACHER GRAPHIC INFORMATION.
- P-1 ATHLETIC EQUIPMENT, BASKETBALL GOAL
- SCOREBOARD, TYPE 1
- SCOREBOARD, TYPE 2
- ALUMINUM WIRE MESH DECORATIVE METAL RAILING SYSTEM, FACTORY FINISHED, MATCH P-7
- OVERHEAD COILING GRILLE, REFER TO ARCHITECTURAL DRAWINGS
- WINDOW, REFER TO ARCHITECTURAL DRAWINGS
- SCOREBOARD, TYPE 2, MOUNTED TO METAL LINER PANEL
- CONTROL PANEL FOR FAN UNITS, REFER TO M SERIES DRAWINGS
- (ALTERNATE) LARGE SCALE GRAPHIC, PAINTED ON WALL SUBSTRATE, GRAPHIC TO BE 2-COLOR SCRIPT FONT, SPELLING "KINGSMEYER" GRAPHIC SHALL BE PART OF THE METAL LINER PANEL ALTERNATE AND FINAL LOCATION IS TO BE DETERMINED
- GLAZED DECORATIVE METAL RAILING SYSTEM, FACTORY FINISHED, FRAME TO MATCH P-7
- STEEL TUBE AT BOTTOM OF RAILING, PAINT P-7
- (ALTERNATE) FACTORY-FINISHED ALUMINUM RAILING
- P-10 ATHLETIC EQUIPMENT, EQUIPMENT CONTROL PANEL

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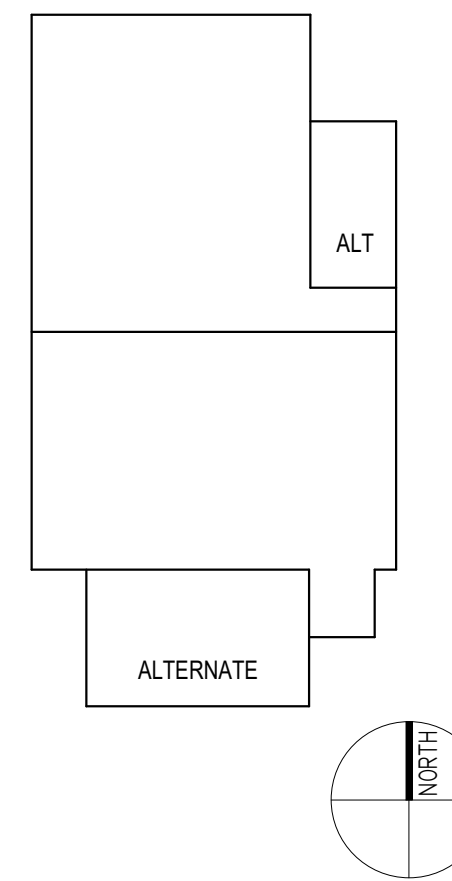
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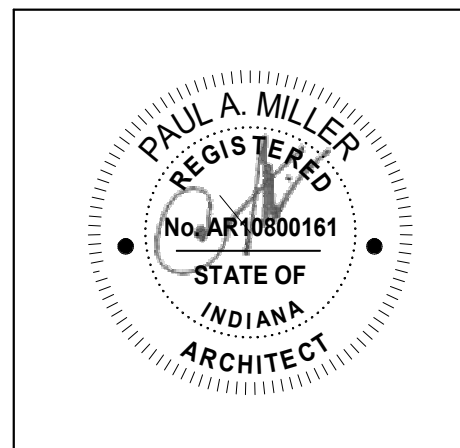
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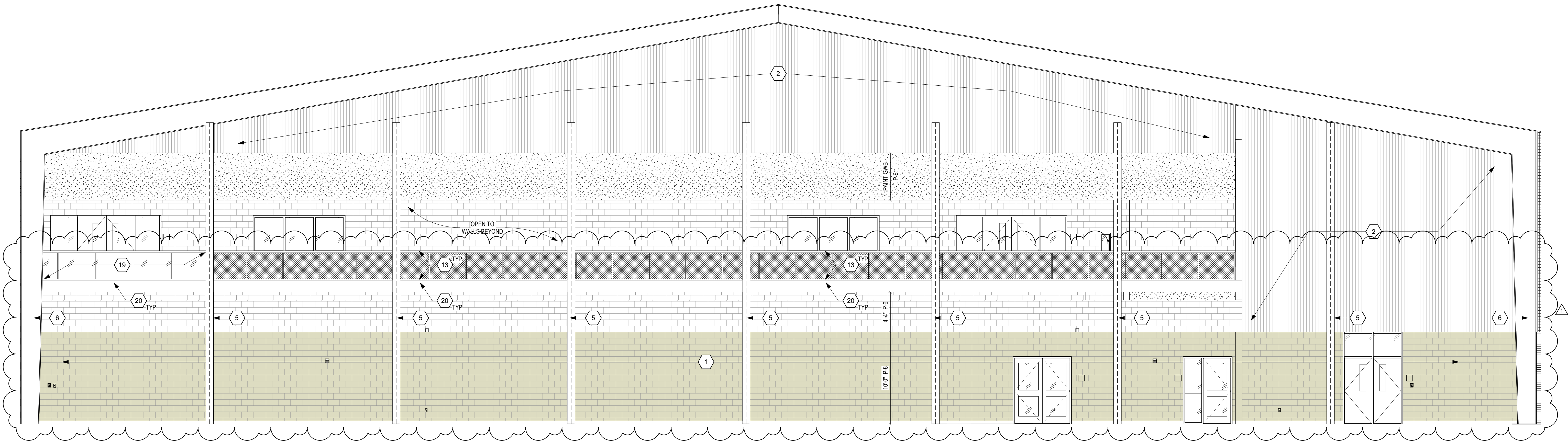
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REV. NO.	DESCRIPTION	DATE
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INTERIOR ELEVATIONS

AF202



1 ALTERNATE - FIELDHOUSE SOUTH  
SCALE: 3/16" = 1'-0"

INTERIOR ELEVATION NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- 1 CMU TO BE PAINTED P-8
- 2 BASE BID TO BE VINYL-FACED BATT INSULATION. ALTERNATE TO BE METAL LINER PANEL. PAINT EXPOSED GIRTS, P-6
- 3 P-9 ATHLETIC EQUIPMENT, WALL PADDING
- 4 PAINT EXPOSED METAL BRACING, P-7
- 5 END COLUMNS, TO BE PAINTED P-7
- 6 MAIN FRAMES, TO BE PAINTED P-7
- 7 POLYCARBONATE WINDOW, REFER TO A1 SERIES
- 8 MECHANICAL GRILLE OR DUCT, REFER TO M SERIES DRAWINGS
- 9 (ALTERNATE) INSTALL TELESCOPING BLEACHERS AND CMU WALLS AS SHOWN. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. BASE BID TO INCLUDE CONTINUATION ADJACENT WALL TYPES AND MAINFRAMES. REFER TO DETAIL 10/AQ751 FOR BLEACHER GRAPHIC INFORMATION.
- 10 P-1 ATHLETIC EQUIPMENT, BASKETBALL GOAL
- 11 SCOREBOARD, TYPE 1
- 12 SCOREBOARD, TYPE 2
- 13 ALUMINUM WIRE MESH DECORATIVE METAL RAILING SYSTEM, FACTORY FINISHED, MATCH P-7
- 14 OVERHEAD COILING GRILLE, REFER TO ARCHITECTURAL DRAWINGS
- 15 WINDOW, REFER TO ARCHITECTURAL DRAWINGS
- 16 SCOREBOARD, TYPE 2, MOUNTED TO METAL LINER PANEL
- 17 CONTROL PANEL FOR FAN UNITS, REFER TO M SERIES DRAWINGS
- 18 (ALTERNATE) LARGE SCALE GRAPHIC, PAINTED ON WALL SUBSTRATE. GRAPHIC TO BE 2-COLOR SCRIPT FONT. SPELLING "KINGSMENT" GRAPHIC SHALL BE PART OF THE METAL LINER PANEL. ALTERNATE AND FINAL LOCATION IS TO BE DETERMINED
- 19 GLAZED DECORATIVE METAL RAILING SYSTEM, FACTORY FINISHED, FRAME TO MATCH P-7
- 20 STEEL TUBE AT BOTTOM OF RAILING, PAINT P-7
- 21 (ALTERNATE) FACTORY-FINISHED ALUMINUM RAILING
- 22 P-10 ATHLETIC EQUIPMENT, EQUIPMENT CONTROL PANEL

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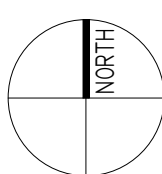
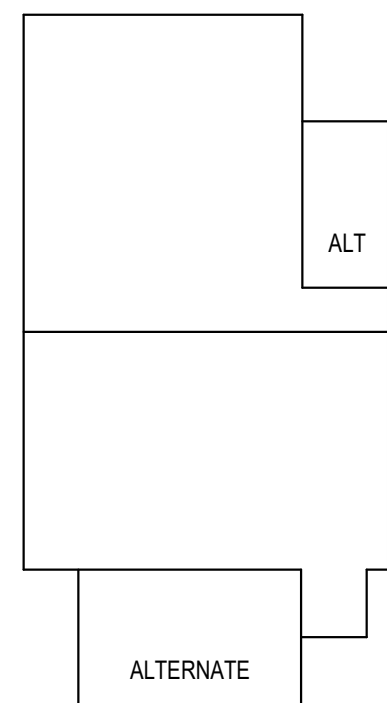
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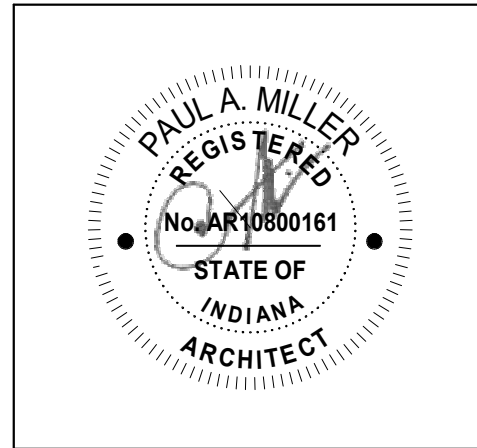
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INTERIOR ELEVATIONS - ALTERNATE

AF203



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# 1 FIRST FLOOR EQUIPMENT PLAN - UNIT A

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

## ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	296 SF
A104	TRAINING	416 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
S-1	STAIR	81 SF

## EQUIPMENT GENERAL NOTES

- ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE. REFER TO DETAIL 7 & 8A/Q72 FOR STANDARD COUNTER TOP DETAILS.
- HIDDEN CABINETS: INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER. NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (---) INDICATE OVERHEAD ITEMS INCLUDED IN CONSTRUCTION CONTRACTS.
- (TB) INDICATES 4" HIGH TACK BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
- (MS) INDICATES 4" HIGH MARKER BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
- PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.
- ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
- CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES.
- CASEWORK INSTALLER SHALL CALL OUT BETWEEN COUNTERS, BACKSPASHES, AND WALLS.
- ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF, UNLESS OTHERWISE NOTED.
- REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
- REFER TO A0752 FOR COURT LAYOUTS AND GRAPHICS.
- FOR LOCKER TYPES, REFER TO S4Q751.
- P-1 INDICATES ATHLETIC EQUIPMENT. REFER TO SCHEDULE N, PROJECT MANUAL.
- (FEC) INDICATES RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAIL 6A/Q751.

## EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- MAIN BASKETBALL COURT MARKINGS. SEE DETAIL 1A/Q752.
- MAIN VOLLEYBALL COURT MARKINGS. SEE DETAIL 4A/Q752.
- CROSSCOURT BASKETBALL MARKINGS. LINES SHALL BE 1 INCH AND NO CENTER CIRCLE IS REQUIRED.
- (ALTERNATE) TELESCOPING BLEACHERS, SHOWN IN CLOSED POSITION. REFER TO S4Q751 FOR BLEACHER GRAPHIC.
- POLE VAULT VAULTING BOX. REFER TO ATHLETIC EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- LONG JUMP WITH PIT FILL AND MHSAS-5 COVER. REFER TO ATHLETIC EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- UNIFIED TAKEOFF LINE. PAINT DISTANCE FROM PIT.
- TENNIS COURT MARKINGS (TOTAL OF 2). SEE DETAIL 3A/Q752.
- PICKLEBALL COURT MARKINGS (TOTAL OF 3 PER COURT). SEE DETAIL 6A/Q752.
- SHOT PUT SECTOR MARKINGS (TOTAL OF 2). SEE DETAIL 6A/Q752.
- WRAP PRE-ENGINEERED BUILDING MAIN FRAMES WITH WALL PADDING (P-4). REFER TO DETAIL 1A-11A FOR MORE INFORMATION.
- TOILET PARTITIONS TO BE SUPPORTED BY THREADED RODS AND HUNG FROM STEEL TUBE ABOVE. SEE DETAIL 1A/Q751.
- (ALTERNATE) OPERABLE WALL. REFER TO 1A/Q752.
- ALL WORK ASSOCIATED WITH THE WRESTLING AND DANCE TWO-STORY ADDITION AT "UNIT D" SHALL BE AN ALTERNATE.
- ALL WORK ASSOCIATED WITH THE STORAGE ROOM ONE-STORY ADDITION AT "UNIT C" SHALL BE AN ALTERNATE.
- SCORERS TABLE TO BE LOOSE EQUIPMENT (BY OWNER).
- INTERIOR SCOREBOARD (TYPE 1). REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- INTERIOR SCOREBOARD (TYPE 2 - COMPETITION COURT). REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- COMMERCIAL LAUNDRY EQUIPMENT (WASHER AND DRYER) SHALL BE LOOSE EQUIPMENT (BY OWNER).
- ICE MACHINE SHALL BE LOOSE EQUIPMENT (BY OWNER).
- HYDRO SOAKING TUBS SHALL BE LOOSE EQUIPMENT (BY OWNER).
- REFER TO FINISH PLANS FOR TRACK AND EVENT MARKINGS.
- PROVIDE A MOP HOLDER (MH) AT MOP SINK.
- PROVIDE LADDER TO ROOF HATCH. SEE DETAIL 1A/R01.
- SOLID SURFACE COUNTER (SSM-1) TO CONTINUE ACROSS COILING DOOR OPENING. RADIUS OUTSIDE CORNERS.
- PROVIDE SHELF ON TOP OF ALL METAL LOCKERS IN LOCKER ROOM. REFER TO DETAIL 3A/Q751.
- ALL WORK AND EQUIPMENT WITHIN THIS ROOM SHALL BE AN ALTERNATE. THEREFORE, TO BE COMPLETED AT A LATER DATE.
- SSM-1 LAVATORY SHELF ABOVE SINKS. SEE DETAIL 6A-401.
- INSTALL WIRE MESH PARTITIONS 34" WIDE WITH LOCKABLE DOOR AND THE DEPTH OF THE LOCKER SHELF. THIS WILL SECURE THE OWNER'S AIR CLEANER PLACED ON TOP OF THE SHELF.
- (UNIT D ALTERNATE) PROVIDE 6H WALL PADDING (P-8) AS SHOWN AROUND PILASTERS AND PERIMETER OF ROOM. PROVIDE INTER-CORNERS AT PILASTERS. PROVIDE PREMOULDED INSERTS TO ACCOMMODATE ELECTRICAL DEVICES. ADJUST HEIGHT OF PADDING TO ACCOMMODATE WINDOWS. STOP PADDING AT HOLLOW METAL DOOR FRAMES.
- OVERHEAD SHORT THROW PROJECTOR. REFER TO TECHNOLOGY DRAWINGS.
- INSTALL CONCRETE LOCKER BENCHES WITH TWO-TIER METAL ATHLETIC LOCKERS ABOVE. REFER TO DETAILS 2 & 3A/Q751. NOTES AT LOCKERS INDICATE LOCKER NUMBERING.
- BUILT-IN LOCKER ADA BENCH ALONG THIS RUN OF LOCKERS. REFER TO DETAIL 3A/Q751.
- WALL MOUNTED MONITOR. REFER TO TECHNOLOGY.
- (UNIT D ALTERNATE) PROJECTION SCREEN - 185" DIAGONAL (84-124" X 48" W) - ELECTRICALLY OPERATED.
- (UNIT D ALTERNATE) UNFRAMED MIRROR. MIRRORS SHALL VERTICAL JOINTS AT 4' O.C. AND MOUNTED AT 24" A.F.F. WITH TOP AT 7'-4".
- REFER TO S4Q761 FOR ISLAND DETAIL.
- REFRIGERATOR SHALL BE LOOSE EQUIPMENT (BY OWNER).
- VENDING MACHINES SHALL BE LOOSE EQUIPMENT (BY OWNER).
- (ALTERNATE) REFER TO S4Q761 FOR ISLAND DETAIL AND S4Q761 FOR ELEVATION AT WEST WALL.

## SIGNAGE GENERAL NOTES

- REFER TO BUILDING ELEVATIONS FOR ADDITIONAL BUILDING LETTERS.
- (RS, J) LETTERS ADJACENT TO ENTRY INDICATES ROOM SIGNAGE AND "J" FOR SIGN TYPE. REFER TO SHEET A0752 FOR SIGNAGE TYPES, DETAILS, AND ADDITIONAL INFORMATION.
- REFER TO MOUNTING HEIGHTS DRAWINGS FOR ADDITIONAL INFORMATION.
- OWNER TO APPROVE ALL DISIGNATION AND ROOM NUMBERING SYSTEM PRIOR TO FABRICATION.
- MAXIMUM CAPACITY SIGN TO BE TYPE K ON A0755 AND LOCATED AS INDICATED ON PLAN.
- SIGN TO HAVE 1/2" RADIUS CORNERS, TYPICAL ALL SIGNS ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS OTHERWISE NOTED.
- REFER TO PLAN FOR EXTERIOR DOOR NUMBERS.
- ALL EXTERIOR DOORS TO RECEIVE INTERIOR EXIT SIGN TYPE "I" WITH NUMBERS CORRESPONDING TO EXTERIOR DOOR NUMBER. OWNER SHALL APPROVE OF EXTERIOR DOOR NUMBERING SCHEME PRIOR TO FABRICATION.
- LOCAL FIRE CHIEF TO VERIFY MAXIMUM CAPACITY SIGNAGE PRIOR TO FABRICATION. SEE PLAN FOR LOCATIONS.
- INCREASE SIGN SIZE IF REQUIRED TO ACCOMMODATE SIGN COPY & GRAPHICS.

## SIGNAGE PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- THIS SIGN SHALL BE PART OF UNIT "D" ALTERNATE.
- THIS SIGN SHALL BE PART OF UNIT "C" ALTERNATE.
- EXTERIOR DOOR NUMBERS (HELVETICA MEDIUM) SHALL BE 10" VERTICAL LETTERS ON GLASS TRANSOMS.
- INCLUDE DIRECTIONAL ARROW ALONG WITH TEXT, POINTING TO EXIT.
- UNDER UNIT C ALTERNATE, THIS SIGNAGE IS NOT REQUIRED. SEE A0752 FOR UNIT C ALTERNATE SIGNAGE.

## EQUIPMENT ROOM TAG LEGEND

- SIGN COPY
- TRAINING  
A104
- CONSTRUCTION DOCUMENTS (REFERENCE ONLY)
- 117
- OWNER/ SIGNAGE ROOM NUMBER

## VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

## PENN-HARRIS-MADISON SCHOOL CORPORATION



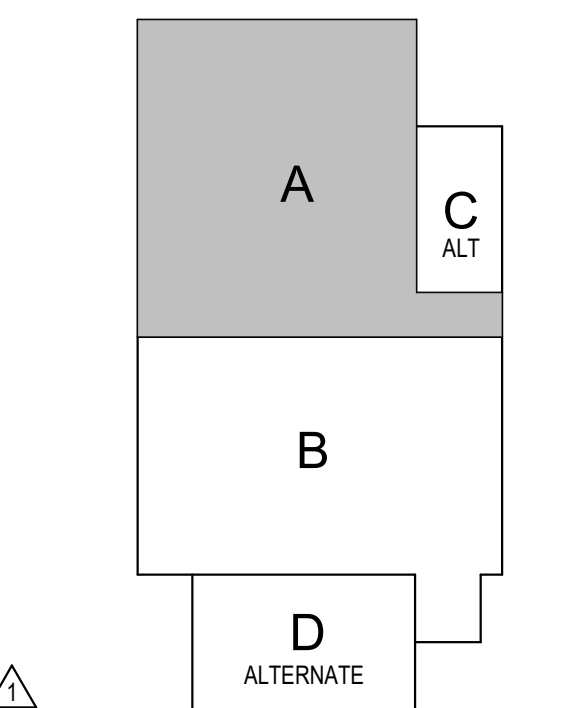
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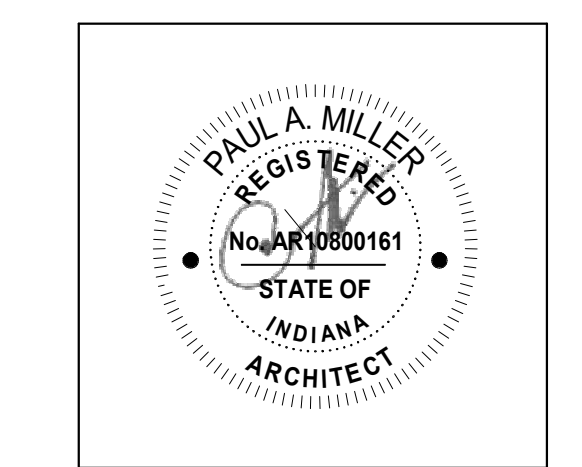
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



## KEY PLAN

### Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

## FIRST FLOOR EQUIPMENT PLAN - UNIT A

# AQ71A



# 1 FIRST FLOOR EQUIPMENT PLAN - UNIT B

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A106	TOILET	81 SF
B101	CORRIDOR	1,163 SF
B102	LOCKER ROOM #1	399 SF
B103	SHOWER	194 SF
B104	DRESSING ROOM #1	261 SF
B105	TOILET	74 SF
B106	TOILET	75 SF
B107	DRESSING ROOM #2	270 SF
B108	SHOWER	194 SF
B109	LOCKER ROOM #2	401 SF
B110	TOILET	83 SF
B111	TOILET	83 SF
B112	GIRLS RESTROOM	388 SF
B113	FIRE RISER	304 SF
B114	BOYS RESTROOM	270 SF
B115	STORAGE	127 SF
B116	CUSTODIAN	68 SF
B117	CONCESSION	263 SF
B118	OFFICE	341 SF
B119	LOBBY	1,039 SF
B120	VESTIBULE	369 SF
B121	SRO OFFICE	157 SF
S-2	STAIR	115 SF

## EQUIPMENT GENERAL NOTES

- ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE. REFER TO DETAIL 7 & 8(AQ72) FOR STANDARD COUNTERTOP DETAILS.
- INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGE OR BY OWNER. NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (---) INDICATE OVERHEAD ITEMS INCLUDED IN CONSTRUCTION CONTRACTS.
- (TB) INDICATES 4" HIGH TACK BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
- (MB) INDICATES 4" HIGH MARKER BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
- PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.
- ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
- CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES.
- CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERTOPS, BACKSPASHES, AND WALLS.
- ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF. UNLESS OTHERWISE NOTED.
- REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
- REFER TO A0752 FOR COURT LAYOUTS AND GRAPHICS.
- FOR LOCKER TYPES, REFER TO S0A251.
- P-X INDICATES ATHLETIC EQUIPMENT. REFER TO SCHEDULE N, PROJECT MANUAL.
- (FEC) INDICATES RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAIL 6(AQ75).

## EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- MAIN BASKETBALL COURT MARKINGS. SEE DETAIL 1(AQ752).
- MAIN VOLLEYBALL COURT MARKINGS. SEE DETAIL 4(AQ752).
- CROSSCOURT BASKETBALL MARKINGS. LINES SHALL BE 1" WIDE AND NO CENTER CIRCLE IS REQUIRED.
- (ALTERNATE) TELESCOPING BLEACHERS, SHOWN IN CLOSED POSITION. REFER TO SCHEDULE N FOR BLEACHER GRAPHIC.
- POLE VAULT VULTING BOX. REFER TO ATHLETIC EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- LONG JUMP WITH PIT FILL AND MLRSAP-5 COVER. REFER TO ATHLETIC EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- UNIFIED TAKEOFF LINE. DISTANCE FROM PIT.
- TENNIS COURT MARKINGS (TOTAL OF 2). SEE DETAIL 3(AQ752).
- PICKLEBALL COURT MARKINGS (TOTAL OF 3 PER COURT). SEE DETAIL 5(AQ752).
- SHOT PUT SECTOR MARKINGS (TOTAL OF 2). SEE DETAIL 6(AQ752).
- WRAP PRE-ENGINEERED BUILDING MAIN FRAMES WITH WALL PADDING (P-6). REFER TO DETAIL 1(A-1A) FOR MORE INFORMATION.
- TOILET PARTITIONS TO BE SUPPORTED BY THREADED RODS AND HUNG FROM STEEL TUBE ABOVE. SEE DETAIL 1(AQ751).
- (ALTERNATE) OPERABLE WALL. REFER TO 1(AQ751).
- ALL WORK ASSOCIATED WITH THE WRESTLING AND DANCE TWO-STORY ADDITION AT "UNIT D" SHALL BE AN ALTERNATE.
- ALL WORK ASSOCIATED WITH THE STORAGE ROOM ONE-STORY ADDITION AT "UNIT C" SHALL BE AN ALTERNATE.
- SCORER'S TABLE TO BE LOOSE EQUIPMENT (BY OWNER).
- INTERIOR SCOREBOARD (TYPE 1). REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- INTERIOR SCOREBOARD (TYPE 2 - COMPETITION COURT). REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- COMMERCIAL LAUNDRY EQUIPMENT (WASHER AND DRYER) SHALL BE LOOSE EQUIPMENT (BY OWNER).
- ICE MACHINE SHALL BE LOOSE EQUIPMENT (BY OWNER).
- HYDRO SOAKING TUBS SHALL BE LOOSE EQUIPMENT (BY OWNER).
- REFER TO FINISH PLANS FOR TRACK AND EVENT MARKINGS.
- PROVIDE A MOP HOLDER (MH) AT MOP SINK.
- PROVIDE LADDER TO ROOF HATCH. SEE DETAIL 1(A-1A).
- SOLID SURFACE COUNTER (SSM-1) TO CONTINUE ACROSS COLING DOOR OPENING; RADIUS OUTSIDE CORNERS.
- PROVIDE SHELF ON TOP OF ALL METAL LOCKERS IN LOCKER ROOM. REFER TO DETAIL 2(AQ751).
- ALL WORK AND EQUIPMENT WITHIN THIS ROOM SHALL BE AN ALTERNATE. THEREFORE, TO BE COMPLETED AT A LATER DATE.
- SSM-1 LAVATORY SHELF ABOVE SINKS. SEE DETAIL 6(A-401).
- INSTALL WIRE MESH PARTITIONS 2" WIDE WITH LOCKABLE DOOR AND THE BERTH OF THE LOCKER SHELF. THIS WILL SECURE THE OWNER'S AIR CLEANER PLACED ON TOP OF THE SHELF.
- (UNIT D ALTERNATE) PROVIDE 6H WALL PADDING (P-6) AS SHOWN AROUND PILASTERS. PERIMETER OF ROOM. PROVIDE MITER CORNERS AT PILASTERS. PROVIDE REMOLDED INSERTS TO ACCOMMODATE ELECTRICAL DEVICES. ADJUST HEIGHT OF PADDING TO ACCOMMODATE WINDOWS. STOP PADDING AT HOLLOW METAL DOOR FRAMES.
- OVERHEAD SHORT THROW PROJECTOR. REFER TO TECHNOLOGY DRAWINGS.
- INSTALL CONCRETE LOCKER BENCHES WITH TWO-TIER METAL ATHLETIC LOCKERS ABOVE. REFER TO DETAILS 2 & 3(AQ751). NOTES AT LOCKERS INDICATE LOCKER NUMBERS.
- BUILT-IN LOCKER ADA BENCH ALONG THIS RUN OF LOCKERS. REFER TO DETAIL 3(AQ751).
- WALL MOUNTED MONITOR. REFER TO TECHNOLOGY.
- (UNIT D ALTERNATE) PROJECTION SCREEN - 165" DIAGONAL (8'-12" X 4'-0" W) - ELECTRICALLY X OPERATED.
- (UNIT D ALTERNATE) UNFRAMED MIRROR. MIRRORS SHALL VERTICAL JOINTS AT 4' O.C. AND MOUNTED AT 24" A.F.F. WITH TOP AT 7'-4".
- REFER TO S0A761 FOR ISLAND DETAIL.
- REFRIGERATOR SHALL BE LOOSE EQUIPMENT (BY OWNER).
- VENDING MACHINES SHALL BE LOOSE EQUIPMENT (BY OWNER).
- INFRARED HEATING RADIATORS. SEE DETAIL 3(AQ751).
- (ALTERNATE) REFER TO S0A761 FOR ISLAND DETAIL AND S0A761 FOR ELEVATION AT WEST WALL.

## SIGNAGE GENERAL NOTES

- REFER TO BUILDING ELEVATIONS FOR ADDITIONAL BUILDING LETTERS.
- (RS, J) LETTERS ADJACENT TO ENTRY INDICATES ROOM SIGNAGE AND "J" FOR SIGN TYPE. REFER TO SHEET A0752 FOR SIGNAGE TYPES, DETAILS, AND ADDITIONAL INFORMATION.
- REFER TO MOUNTING HEIGHTS DRAWINGS FOR ADDITIONAL INFORMATION.
- OWNER TO APPROVE ALL DISIGNATION AND ROOM NUMBERING SYSTEM PRIOR TO FABRICATION.
- MAXIMUM CAPACITY SIGN TO BE TYPE K ON A0752 AND LOCATED AS INDICATED ON PLAN.
- SIGN TO HAVE 1/2" RADIUS CORNERS. TYPICAL ALL SIGNS ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS OTHERWISE NOTED.
- REFER TO PLAN FOR EXTERIOR DOOR NUMBERS.
- ALL EXTERIOR DOORS TO RECEIVE INTERIOR EXIT SIGN TYPE "I" WITH NUMBERS CORRESPONDING TO EXTERIOR DOOR NUMBER. OWNER SHALL APPROVE OF EXTERIOR DOOR NUMBERING SCHEME PRIOR TO FABRICATION.
- LOCAL FIRE CHIEF TO VERIFY MAXIMUM CAPACITY SIGNAGE PRIOR TO FABRICATION. SEE PLAN FOR LOCATIONS.
- INCREASE SIGN SIZE IF REQUIRED TO ACCOMMODATE SIGN COPY & GRAPHICS.

## SIGNAGE PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- THIS SIGN SHALL BE PART OF UNIT "D" ALTERNATE.
- THIS SIGN SHALL BE PART OF UNIT "C" ALTERNATE.
- EXTERIOR DOOR NUMBERS (HELVETICA MEDIUM) SHALL BE 10" VERTICAL LETTERS ON GLASS TRANSOMS.
- INCLUDE DIRECTIONAL ARROW ALONG WITH TEXT. POINTING TO EXIT.
- UNDER UNIT C ALTERNATE, THIS SIGNAGE IS NOT REQUIRED. SEE A0A701 FOR UNIT C ALTERNATE SIGNAGE.

## EQUIPMENT ROOM TAG LEGEND

- SIGN COPY
- TRAINING  
A104  
117
- CONSTRUCTION DOCUMENTS (REFERENCE ONLY)
- OWNER/ SIGNAGE ROOM NUMBER

## VERIFICATION NOTE

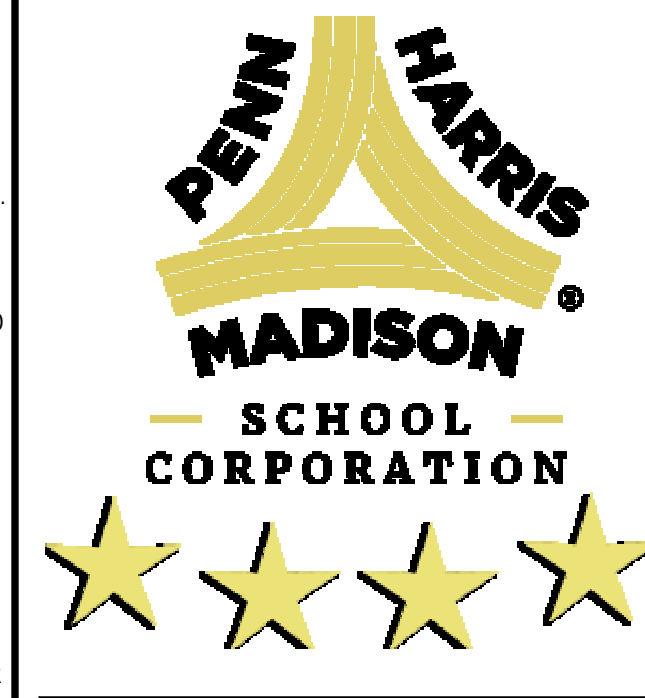
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

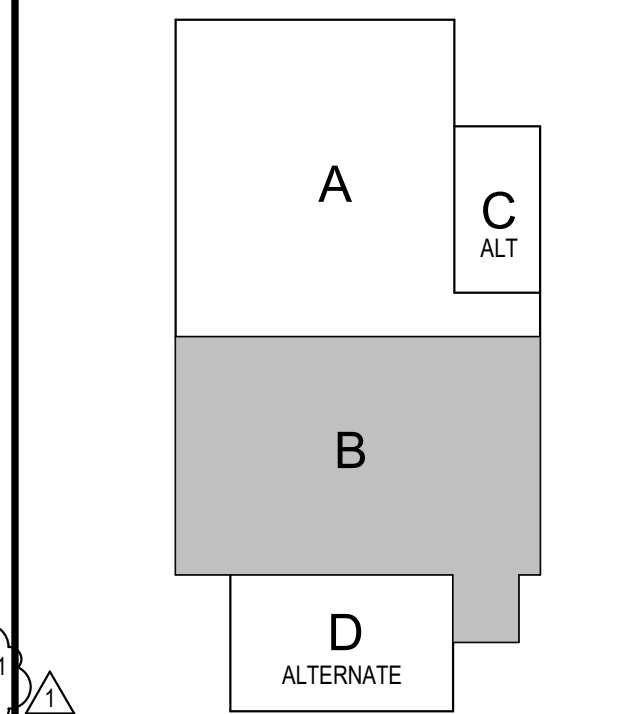
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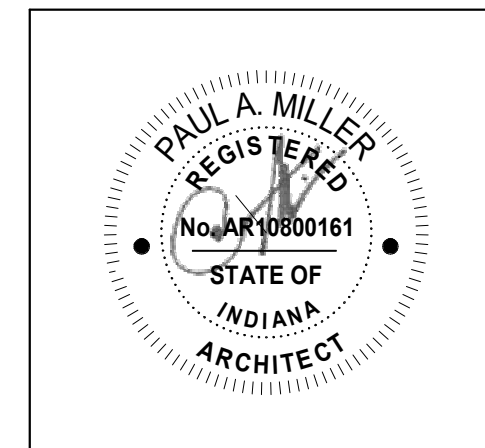
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## KEY PLAN

### Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

## FIRST FLOOR EQUIPMENT PLAN - UNIT B

# AQ71B



A-201 4

2 AF201

ALTERNATE  
AF203 1

AF202 3

## 1 SECOND FLOOR EQUIPMENT PLAN - UNIT B

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

### ROOM LEGEND

ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54,239 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
B201	CORRIDOR	1,444 SF
B202	LOCKER ROOM #3	399 SF
B203	SHOWER	184 SF
B204	DRESSING ROOM #3	261 SF
B205	TOILET	74 SF
B206	TOILET	75 SF
B207	DRESSING ROOM #4	270 SF
B208	SHOWER	184 SF
B209	LOCKER ROOM #4	402 SF
B210	CLASSROOM	842 SF
B211	CUSTODIAN	67 SF
B212	TOILET	63 SF
B213	TOILET	63 SF
B214	ELECTRICAL / TECHNOLOGY	58 SF
B215	ELEVATOR EQUIPMENT	55 SF
B216	CLASSROOM	840 SF
B217	COMMONS	584 SF
S-2	STAIR	175 SF

### EQUIPMENT GENERAL NOTES

- ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE. REFER TO DETAIL 7 & 8A/Q272 FOR STANDARD COUNTERTOP DETAILS.
- INDICATE ITEMS TO BE PART OF LOOSE EQUIPMENT PACKAGES OR BY OWNER. NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (---) INDICATE OVERHEAD ITEMS INCLUDED IN CONSTRUCTION CONTRACTS.
- (TB) INDICATES 4" HIGH TACK BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
- (MB) INDICATES 4" HIGH MARKER BOARD, LENGTH AS INDICATED. REFER TO MOUNTING HEIGHT DRAWING.
- PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL, OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE.
- ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED.
- CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES.
- CASEWORK INSTALLER SHALL CALLUX BETWEEN COUNTERTOPS, BACKSPASHES, AND WALLS.
- ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF, UNLESS OTHERWISE NOTED.
- REFER TO LIST OF FINISHES FOR COLOR SELECTIONS.
- REFER TO A0752 FOR COURT LAYOUTS AND GRAPHICS.
- FOR LOCKER TYPES, REFER TO S4Q751.
- P-X INDICATES ATHLETIC EQUIPMENT. REFER TO SCHEDULE N, PROJECT MANUAL.
- (FEC) INDICATES RECESSED FIRE EXTINGUISHER CABINET. REFER TO DETAIL 6A/Q701.

### EQUIPMENT NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- MAIN BASKETBALL COURT MARKINGS. SEE DETAIL 1A/Q752.
- MAIN VOLLEYBALL COURT MARKINGS. SEE DETAIL 4A/Q752.
- CROSSCOURT BASKETBALL MARKINGS. LINES SHALL BE 1 INCH AND NO CENTER CIRCLE IS REQUIRED.
- (ALTERNATE) TELESOPING BLEACHERS, SHOWN IN CLOSED POSITION. REFER TO S4Q751 FOR BLEACHER GRAPHIC.
- POLE VAULT VAULTING BOX. REFER TO ATHLETIC EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- LONG JUMP WITH PIT FILL AND MLRSAP-5 COVER. REFER TO ATHLETIC EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- UNIFIED TAKEOFF LINE PAINT. DISTANCE FROM PIT TO TENNIS COURT MARKINGS (TOTAL OF 2). SEE DETAIL 3A/Q752.
- PICKLEBALL COURT MARKINGS (TOTAL OF 3 PER COURT). SEE DETAIL S4Q752.
- SHOT PUT SECTOR MARKINGS (TOTAL OF 2). SEE DETAIL 6A/Q752.
- WRAP PRE-ENGINEERED BUILDING MAIN FRAMES WITH WALL PADDING (P-6). REFER TO DETAIL 1A-11A FOR MORE INFORMATION.
- TOILET PARTITIONS TO BE SUPPORTED BY THREADED RODS AND HUNG FROM STEEL TUBE ABOVE. SEE DETAIL 1A/Q751.
- (ALTERNATE) OPERABLE WALL. REFER TO 1A/C128.
- ALL WORK ASSOCIATED WITH THE WRESTLING AND DANCE TWO-STORY ADDITION AT "UNIT D" SHALL BE AN ALTERNATE.
- ALL WORK ASSOCIATED WITH THE STORAGE ROOM ONE-STORY ADDITION AT "UNIT C" SHALL BE AN ALTERNATE.
- SCORER'S TABLE TO BE LOOSE EQUIPMENT (BY OWNER).
- INTERIOR SCOREBOARD (TYPE 1). REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- INTERIOR SCOREBOARD (TYPE 2 - COMPETITION COURT). REFER TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- COMMERCIAL LAUNDRY EQUIPMENT (WASHER AND DRYER) SHALL BE LOOSE EQUIPMENT (BY OWNER).
- ICE MACHINE SHALL BE LOOSE EQUIPMENT (BY OWNER).
- HYDRO SOAKING TUBS SHALL BE LOOSE EQUIPMENT (BY OWNER).
- REFER TO FINISH PLANS FOR TRACK AND EVENT MARKINGS.
- PROVIDE A MOP HOLDER (MH) AT MOP SINK.
- PROVIDE LADDER TO ROOF HATCH. SEE DETAIL 1A/R111.
- SOLID SURFACE COUNTER (SSM-1) TO CONTINUE ACROSS COLLING DOOR OPENING; RADIUS OUTSIDE CORNERS.
- PROVIDE SHELF ON TOP OF ALL METAL LOCKERS IN LOCKER ROOM. REFER TO DETAIL 2A/Q751.
- ALL WORK AND EQUIPMENT WITHIN THIS ROOM SHALL BE AN ALTERNATE. THEREFORE, TO BE COMPLETED AT A LATER DATE.
- SSM-1 LAVATORY SHELF ABOVE SINKS. SEE DETAIL 6A-401.
- INSTALL WIRE MESH PARTITIONS 24" WIDE WITH LOCKABLE DOOR AND THE DEPTH OF THE LOCKER SHELF. THIS WILL SECURE THE OWNER'S AIR CLEANER PLACED ON TOP OF THE SHELF.
- (UNIT D ALTERNATE) PROVIDE 6H WALL PADDING (P-6) AS SHOWN AROUND PILASTERS AND PERIMETER OF ROOM. PROVIDE MITER CORNERS AT PLASTERS. PROVIDE PREMOULDED INSERTS TO ACCOMMODATE ELECTRICAL DEVICES. ADJUST HEIGHT OF PADDING TO ACCOMMODATE WINDOWS. STOP PADDING AT HOLLOW METAL DOOR FRAMES.
- OVERHEAD SHORT THROW PROJECTOR. REFER TO TECHNOLOGY DRAWINGS.
- INSTALL CONCRETE LOCKER BENCHES WITH TWO-TIER METAL ATHLETIC LOCKERS ABOVE. REFER TO DETAILS 2 & S4Q751. NOTES AT LOCKERS INDICATE LOCKER NUMBERS.
- BUILT-IN LOCKER ADA BENCH ALONG THIS RUN OF LOCKERS. REFER TO DETAIL 3A/Q751.
- WALL MOUNTED MONITOR. REFER TO TECHNOLOGY.
- (UNIT D ALTERNATE) PROJECTION SCREEN - 165" DIAGONAL (8'-12" X 4'-0" W) - ELECTRICALLY OPERATED.
- (UNIT D ALTERNATE) UNFRAMED MIRROR. MIRRORS SHALL VERTICAL JOINTS AT 4' O.C. AND MOUNTED AT 24" A.F.F. WITH TOP AT 7'-4".
- REFER TO S4Q761 FOR ISLAND DETAIL.
- REFRIGERATOR SHALL BE LOOSE EQUIPMENT (BY OWNER).
- VENDING MACHINES SHALL BE LOOSE EQUIPMENT (BY OWNER).
- REFER TO S4Q761 FOR ISLAND DETAIL.
- (ALTERNATE) REFER TO S4Q761 FOR ISLAND DETAIL AND S4Q761 FOR ELEVATION AT WEST WALL.

### SIGNAGE GENERAL NOTES

- REFER TO BUILDING ELEVATIONS FOR ADDITIONAL BUILDING LETTERS.
- (RS, J) LETTERS ADJACENT TO ENTRY INDICATES ROOM SIGNAGE. AND "1" FOR SIGN TYPE. REFER TO SHEET A0752 FOR SIGNAGE TYPES, DETAILS, AND ADDITIONAL INFORMATION.
- REFER TO MOUNTING HEIGHTS DRAWINGS FOR ADDITIONAL INFORMATION.
- OWNER TO APPROVE ALL DISIGNATION AND ROOM NUMBERING SYSTEM PRIOR TO FABRICATION.
- MAXIMUM CAPACITY SIGN TO BE TYPE K ON A0752 AND LOCATED AS INDICATED ON PLAN.
- SIGN TO HAVE 1/2" RADIUS CORNERS. TYPICAL. ALL SIGNS ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS INDICATED ARE TYPICAL PER SIGN TYPE, UNLESS OTHERWISE NOTED.
- REFER TO PLAN FOR EXTERIOR DOOR NUMBERS.
- ALL EXTERIOR DOORS TO RECEIVE INTERIOR EXIT SIGN. TYPE 1, WITH NUMBERS CORRESPONDING TO EXTERIOR DOOR NUMBER. OWNER SHALL APPROVE OF EXTERIOR DOOR NUMBERING SCHEME PRIOR TO FABRICATION.
- LOCAL FIRE CHIEF TO VERIFY MAXIMUM CAPACITY SIGNAGE PRIOR TO FABRICATION. SEE PLAN FOR LOCATIONS INCREASE SIGN SIZE IF REQUIRED TO ACCOMMODATE SIGN COPY & GRAPHICS.

### SIGNAGE PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- THIS SIGN SHALL BE PART OF UNIT "D" ALTERNATE.
- THIS SIGN SHALL BE PART OF UNIT "C" ALTERNATE.
- EXTERIOR DOOR NUMBERS (HELVETICA MEDIUM) SHALL BE 10" VERTICAL LETTERS ON GLASS TRANSOMS.
- INCLUDE DIRECTIONAL ARROW ALONG WITH TEXT, POINTING TO EXIT.
- UNDER UNIT C ALTERNATE THIS SIGNAGE IS NOT REQUIRED. SEE A0752 FOR UNIT C ALTERNATE SIGNAGE.

### EQUIPMENT ROOM TAG LEGEND

- SIGN COPY
- TRAINING
- A104 CONSTRUCTION DOCUMENTS (REFERENCE ONLY)
- 117 OWNER/ SIGNAGE ROOM NUMBER

### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

### PENN-HARRIS-MADISON SCHOOL CORPORATION



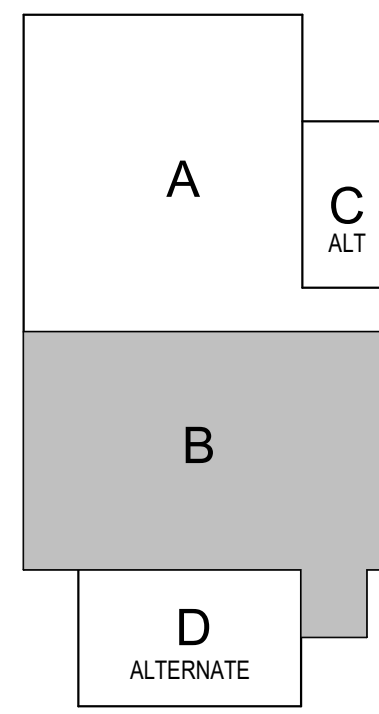
ARCHITECT

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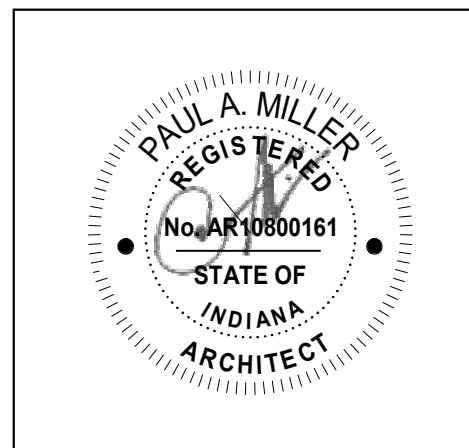
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



### KEY PLAN

#### Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML

PROJECT NUMBER: 222130.00

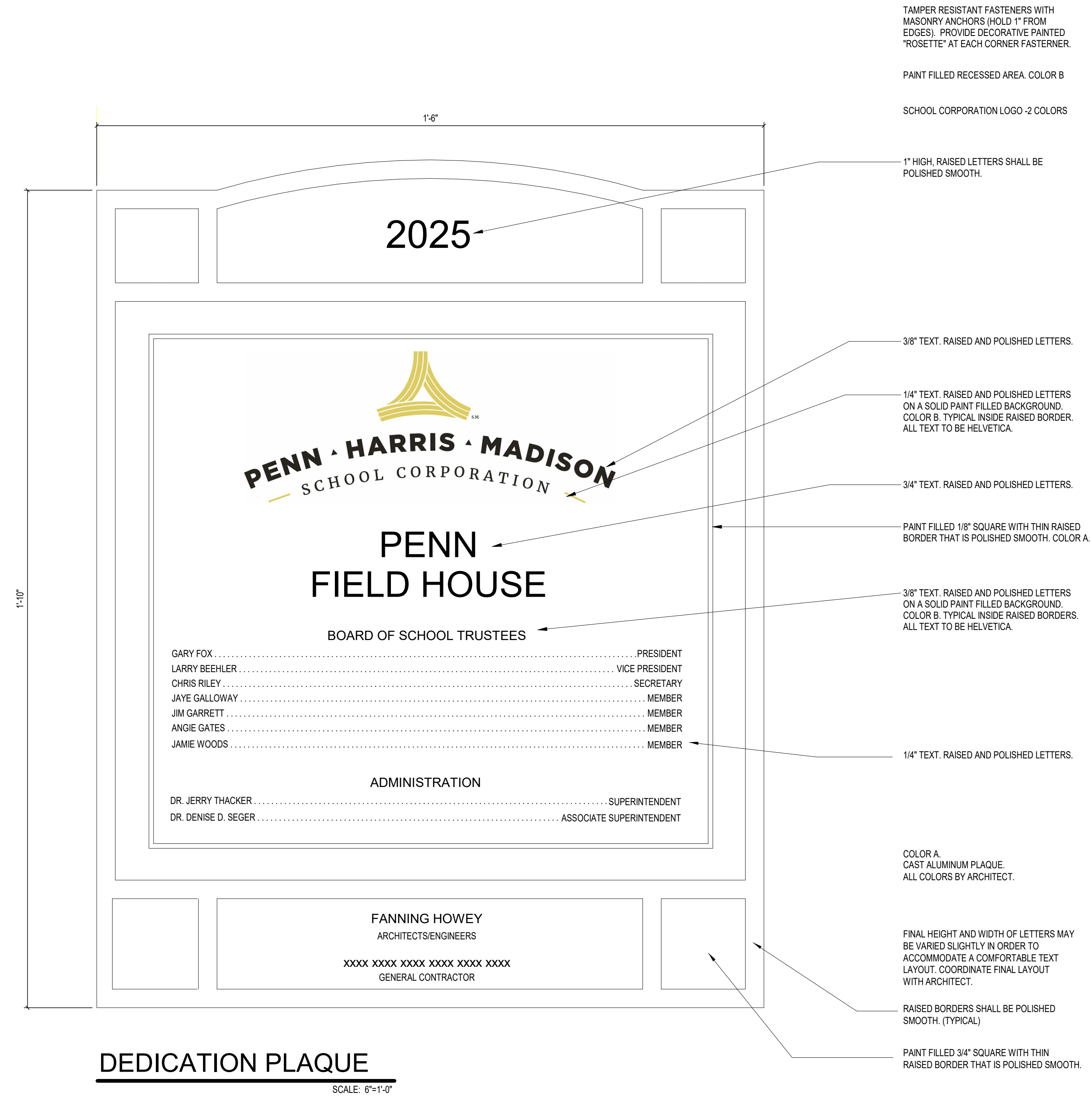
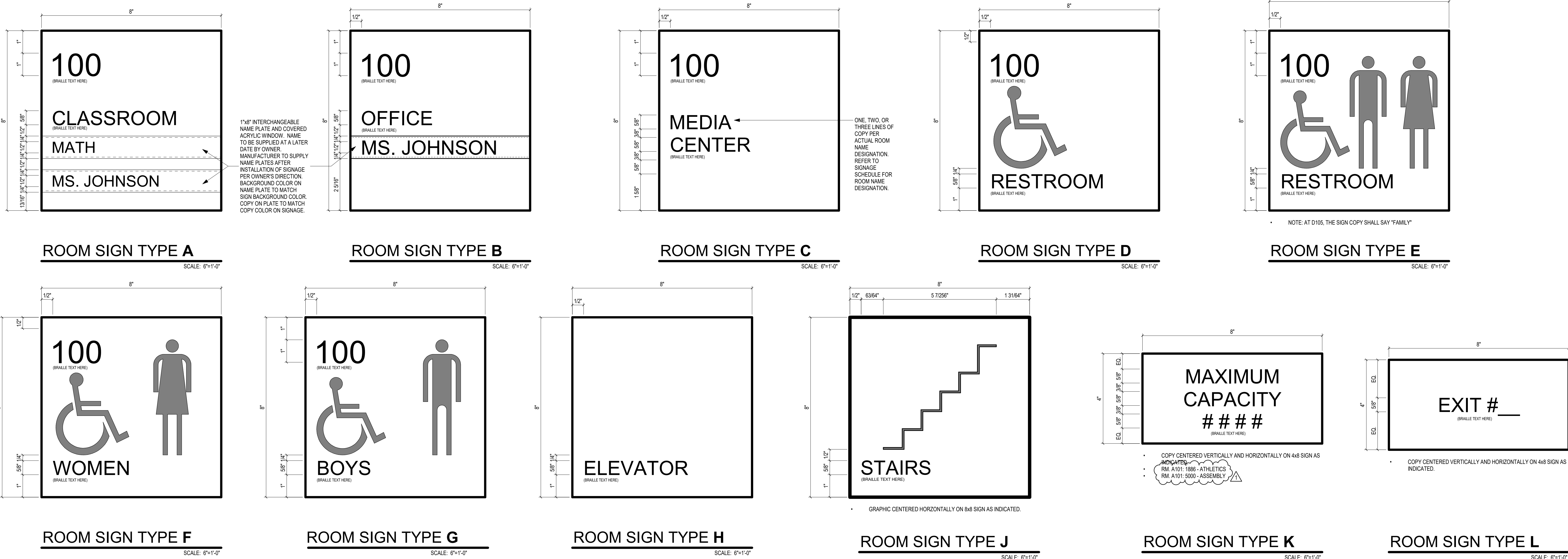
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

### SECOND FLOOR EQUIPMENT PLAN - UNIT B

# AQ72B





SIGNAGE - FIRST FLOOR						
OWNER ROOM NO.	ROOM NO.	ROOM NAME	SIGNAGE			
			TYPE	SIGN DESIGNATION	MAX. OCCUPANCY	NOTES
102	A101	FIELDHOUSE	RSC, RSL (2/RSK)	1886-ATHLETICS 5000-ASSEMBLY		SEE PLAN FOR RSL DESIGN
-	A102	CORRIDOR		EXIT #2		
-	A103	CORRIDOR	RSL			
117	A104	TRAINING	RSB			
117B	A105	ELECTRICAL	RSC			
118	A106	TOILET	RSD			
117A	A107	LAUNDRY	RSC			
-	B101	CORRIDOR				
115	B102	LOCKER ROOM #1	RSC			
-	B103	SHOWER				
114	B104	DRESSING ROOM #1	RSC			
114A	B105	TOILET	RSD			
113A	B106	TOILET	RSD			
113	B107	DRESSING ROOM #2	RSC			
-	B108	SHOWER				
112	B109	LOCKER ROOM #2	RSC			
111	B110	TOILET	RSE			
110	B111	TOILET	RSE			
109	B112	GIRLS RESTROOM	RSF			
108	B113	FIRE RISER	RSC			
107	B114	BOYS RESTROOM	RSB			
108	B115	STORAGE	RSC			
105	B116	CUSTODIAN	RSC			
104	B117	CONCESSION	RSC			
103	B118	OFFICE	RSA			
-	B119	LOBBY	RSL	EXIT #1		
-	B120	VESTIBULE	RSM			
101	B121	SRO OFFICE	RSA			
STAIR 2	S-1	STAIR	RSJ	STAIR 2		
STAIR 1	S-2	STAIR	RSJ	STAIR 1		
STAIR 1	S-2	STAIR				

SIGNAGE - SECOND FLOOR						
OWNER ROOM NO.	ROOM NO.	ROOM NAME	SIGNAGE			
			TYPE	SIGN DESIGNATION	MAX. OCCUPANCY	NOTES
-	A201	CORRIDOR				
212	A202	MECHANICAL				
-	B201	CORRIDOR				
211	B202	LOCKER ROOM #3	RSC			
210	B204	DRESSING ROOM #3	RSC			
210A	B205	TOILET	RSD			
208A	B206	TOILET	RSD			
209	B207	DRESSING ROOM #4	RSC			
208	B209	LOCKER ROOM #4	RSC			
207	B210	CLASSROOM	RSA			
206	B211	CUSTODIAN	RSC			
205	B212	TOILET	RSE			
204	B213	TOILET	RSE			
203	B214	ELECTRICAL / TECHNOLOGY	RSC			
202	B215	ELEVATOR EQUIPMENT	RSC			
201	B216	CLASSROOM	RSA			
-	B217	COMMONS				
-	B218	Room				

## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

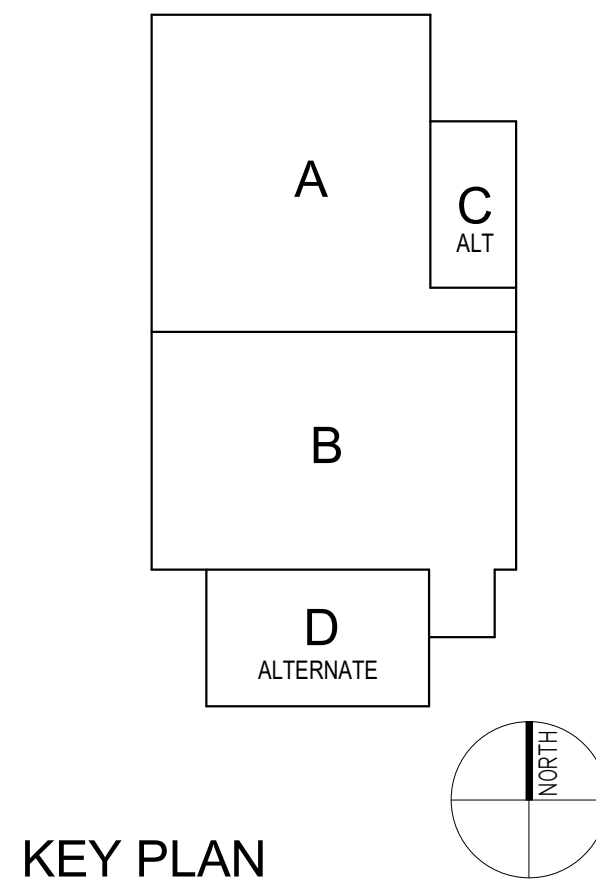
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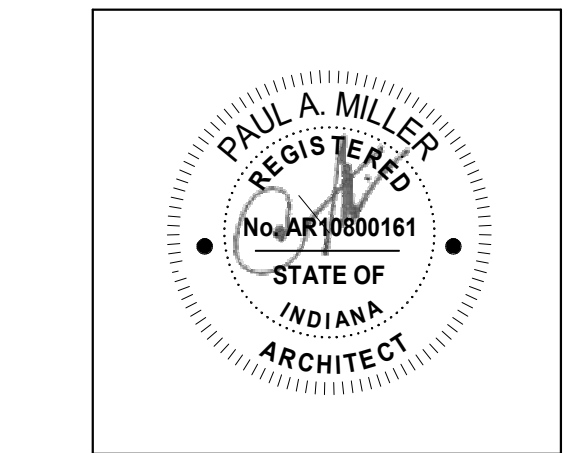


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## KEY PLAN

## Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: AML  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

## SIGNAGE DETAILS

# AQ753

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B114	BOYS RESTROOM	270 SF
B115	STORAGE	127 SF
B116	CUSTODIAN	68 SF
B117	CONCESSION	283 SF
B118	OFFICE	341 SF
B119	LOBBY	1039 SF
B120	VESTIBULE	369 SF
B121	SRO OFFICE	159 SF
S-2	STAIR	115 SF

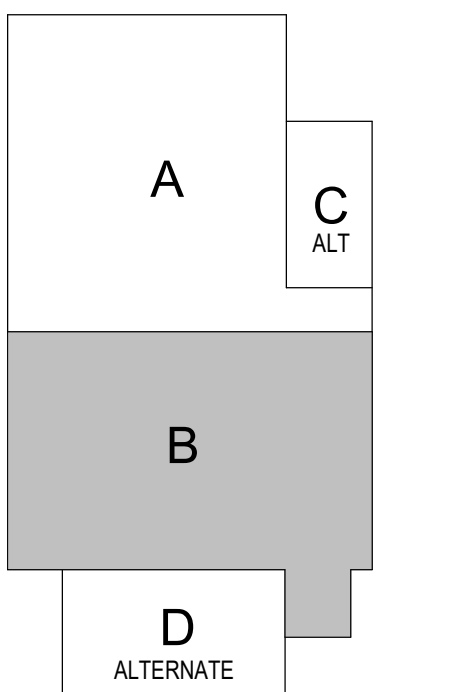
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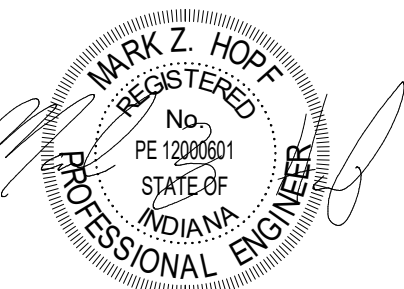
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## KEY PLAN

## Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: DJA  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

[illegible]

**FIRST FLOOR VENTILATION PLAN**  
**UNIT B**

# MV102

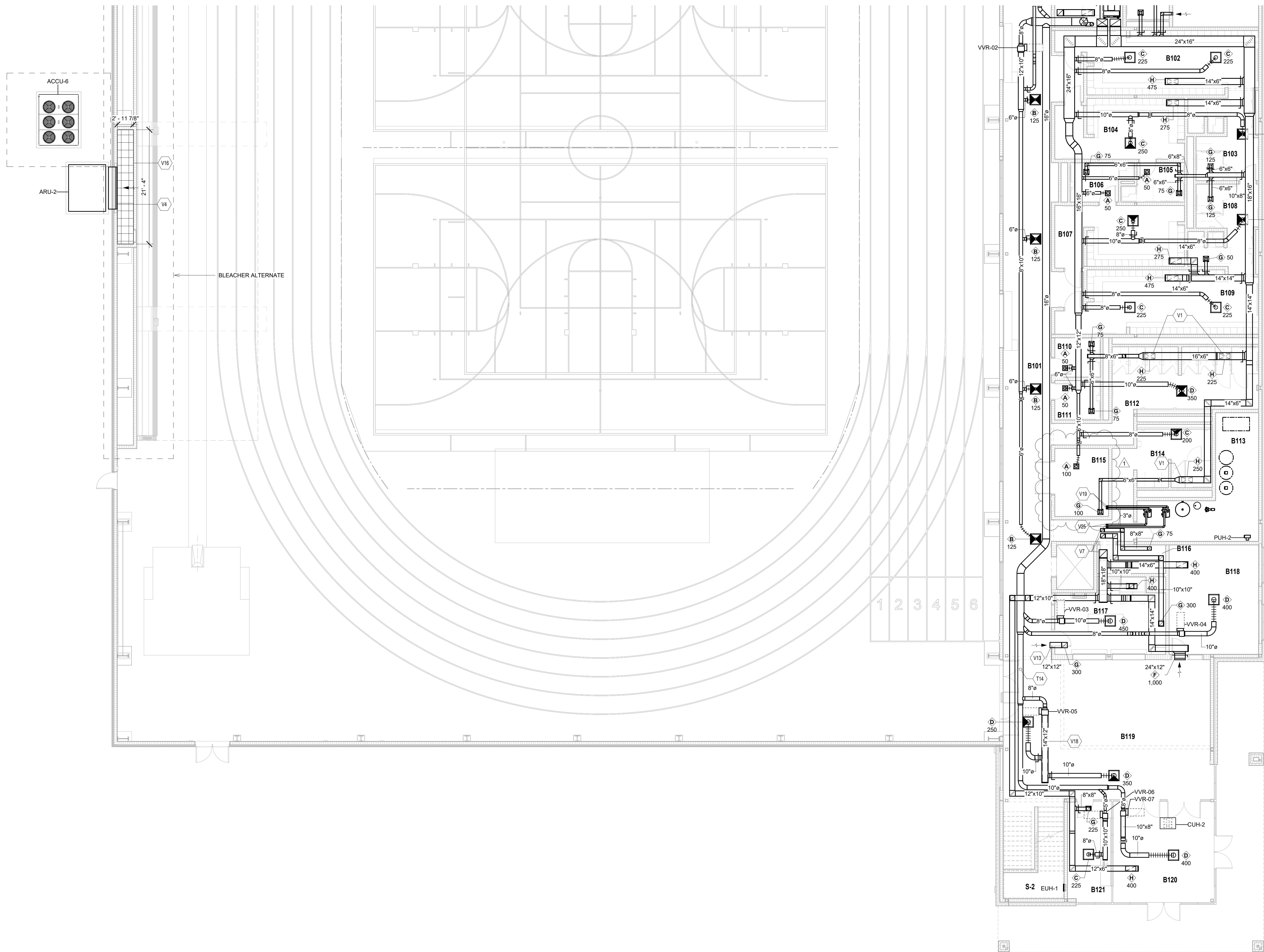
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- V3 APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE AND HUMIDITY TRANSDUCER MANUFACTURER. MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.
- V6 PROVIDE VOLUME DAMPER IN EXISTING DUCTWORK TO AID SUPPLY AIR
- V4 SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY THE ROTATION UNIT MANUFACTURER. CONTRACTOR TO PROVIDE THE INTERIOR AND EXTERIOR AIR GRILLES AND DIFFUSER/SIGLE AND AIR ROTATION UNIT. PAINT DIFFUSERS AND GRILLES TO MATCH EXISTING. COORDINATE PINAL-COLOR WITH ARCHITECT.
- V7 DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL, IN WABA.
- V5 DUCTWORK SHALL OPENING LOCATED ABOVE THE CEILING. COORDINATE EXACT LOCATION WITH ALL TRADES. END OF DUCT OPEN TO SPACE.
- V6 MECHANICAL CONTRACTOR TO PROVIDE MANHOLE BAR GRATING STANDARD DUPLY SPECIFIED, GALVANIZED STEEL, NOT REQUIRED "1 x 18" RECTANGULAR BAR GRATING (FOR EX OR ELEV) AND SUPPORT PORT OR GATE AS REQUIRED, COORDINATE WITH ARCHITECTURAL & STRUCTURAL.
- V16 DUCTWORK PROVIDED WITH INTERNAL LINEN INSULATION REFER TO MECHANICAL SPECIFICATIONS.
- PROVIDE AND INSTALL "X" EXHAUST VENT WITH A MINIMUM 1/4 INCH PER FOOT PITCH UPWARDS PER MANUFACTURERS REQUIREMENTS FOR EXHAUST VENT. COORDINATE FINAL VENT DIAMETER WITH APPROVED SUBMITTALS. EXHAUST VENT MUST BE 3 FEET ABOVE THE COMBUSTION AIR INTAKE. 2 FEET ABOVE THE EXHAUST AIR INTAKE. FROM THE BUILDING WITHIN 10 FEET. ROUTE FLUE UP THROUGH ROOF TRANSITION TO EXTERIOR THROUGH ROOF. AS REQUIRED. TERMINATE DUCT WITH SUPPORT COLLAR, ROOF FLASHING, AND VELOCITY CONE.
- V16 PROVIDE AND INSTALL "X" COMBUSTION AIR INLET PER MANUFACTURER REQUIREMENTS. COORDINATE WITH WATER HEATER). COORDINATE FINAL VENT DIAMETER WITH APPROVED SUBMITTALS. ROUTE COMBUSTION AIR DUCT UP THROUGH ROOF ABOVE EXHAUST AIR DUCT. TERMINATE CHASE AS REQUIRED. TERMINATE COMBUSTION AIR INLET WITH COSEOREN, REFER TO DETAIL. PIPE SIZE AND SUPPORT PER MANUFACTURER REQUIREMENTS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

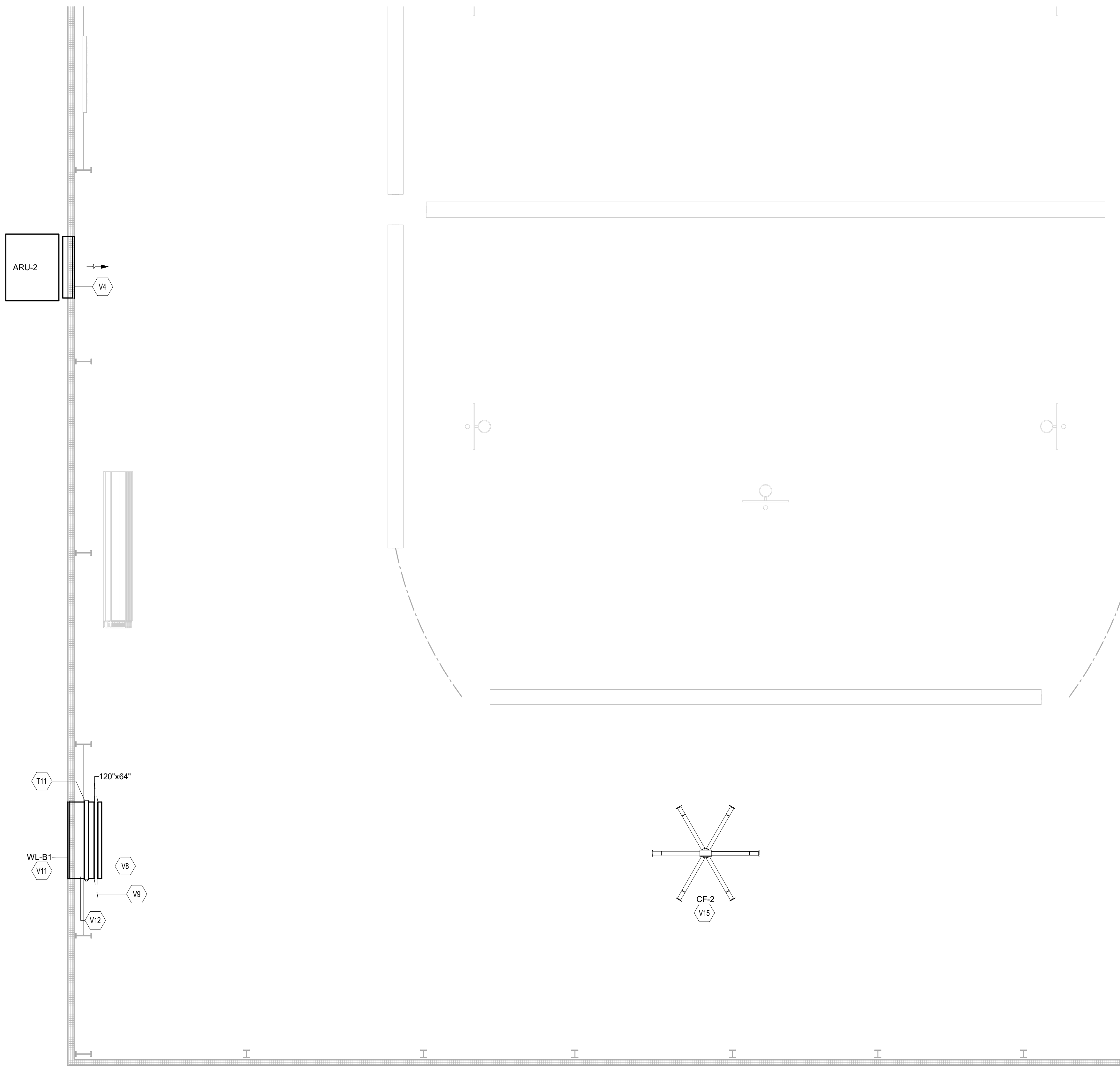
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



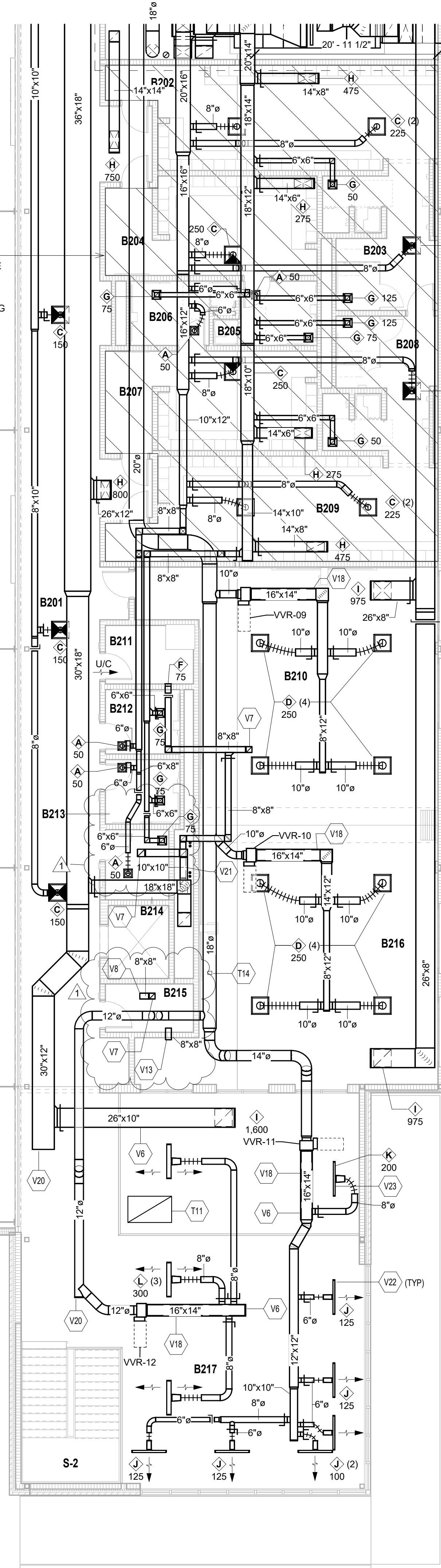
## UNIT B - FIRST FLOOR VENTILATION PLAN

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

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ALTERNATE, AS SHOWN.  
BASE BID, CONTRACTOR SHALL PROVIDE  
BALANCING DAMPER AS SHOWN AND  
EXTEND BRANCH DUCTWORK 24" OFF  
MAIN. BALANCING DAMPER SHALL  
INDICATE AIRFLOW AND MARK BALANCING  
DAMPER POSITION. AFTER BALANCING IS  
COMPLETE, CLOSE DAMPER.



- VENTILATION PLAN GENERAL NOTES
- A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
  - B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
  - C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
  - D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
  - E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES: SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
  - G. PROVIDE BALANCING DAMPERS AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
  - H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 4" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
  - I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
  - J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
  - L. ALL RETURN EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

- VENTILATION PLAN NOTES
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- T11 RELIEF CONTROL DAMPER PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST AND CALIBRATE RELIEF CONTROL DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.
  - T14 APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR. SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH ALL TRADES.
  - V4 SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLE PROVIDED BY AIR ROTATION UNIT MANUFACTURER. CONTRACTOR SHALL PROVIDE INTERCONNECTING DUCTWORK BETWEEN DIFFUSER/GRILLE AND AIR ROTATION UNIT. PAINT DIFFUSER AND GRILLE PROVIDED BY MANUFACTURER. COORDINATE FINAL COLOR WITH ARCHITECT.
  - V6 PAINT DUCTWORK TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
  - V7 DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL IN AREA.
  - V8 END OF DUCT OPENING TO SPACE. OPENING TO BE PROTECTED WITH BIRDSCREEN.
  - V9 BAROMETRIC RELIEF DAMPER. CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST AND CALIBRATE RELIEF DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.
  - V11 INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION. REFER TO DETAIL.
  - V12 INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 8" BEYOND DUCTWORK.
  - V13 AIR TRANSFER WALL OPENING LOCATED ABOVE THE CEILING. COORDINATE EXACT LOCATION WITH ALL TRADES. END OF DUCT OPEN TO SPACE.
  - V15 COORDINATE THE INSTALLATION OF THE HVLS FANS WITH ALL TRADES. PROPER CLEARANCES SHALL BE ADHERED TO. REFER TO MANUFACTURERS REQUIREMENTS FOR REQUIRED CLEARANCES. THE FAN SHALL BE SUPPORTED AND BRACED FROM STRUCTURED STEEL MEMBERS. SUPPORT AND/OR BRACING FROM THE LIGHT GAUGE ROOF PURLINS IS PROHIBITED.
  - V18 DUCTWORK PROVIDED WITH INTERNAL LINED INSULATION. REFER TO SPECIFICATIONS.
  - V20 CAP DUCT AIR TIGHT FOR FUTURE ADDITION.
  - V21 TRANSITION DUCTWORK IN AREA WITHIN CHASE.
  - V22 LINEAR DIFFUSER SHALL BE IN THE POSITION TO PROVIDE AIRFLOW IN THE HORIZONTAL DIRECTION.
  - V23 LINEAR DIFFUSER SHALL BE IN THE POSITION TO PROVIDE AIRFLOW IN THE DOWNWARD DIRECTION.

VERIFICATION NOTE  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.  
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

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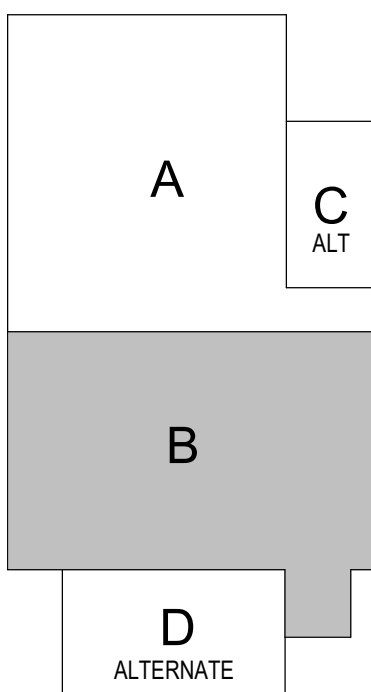
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## KEY PLAN

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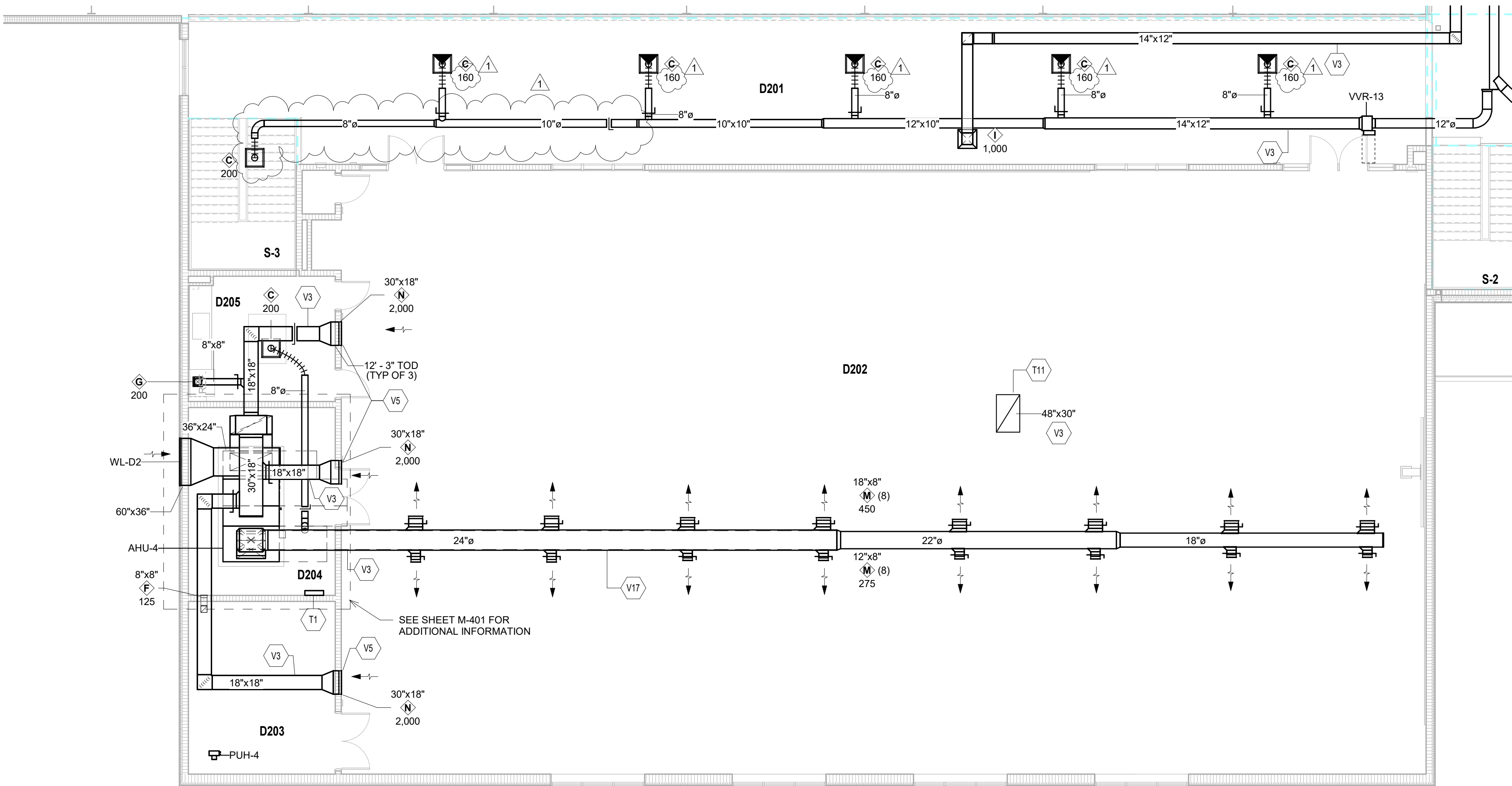
PROJECT MANAGER: MKS  
DRAWN BY: DJA  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

SECOND FLOOR VENTILATION PLAN  
- UNIT B

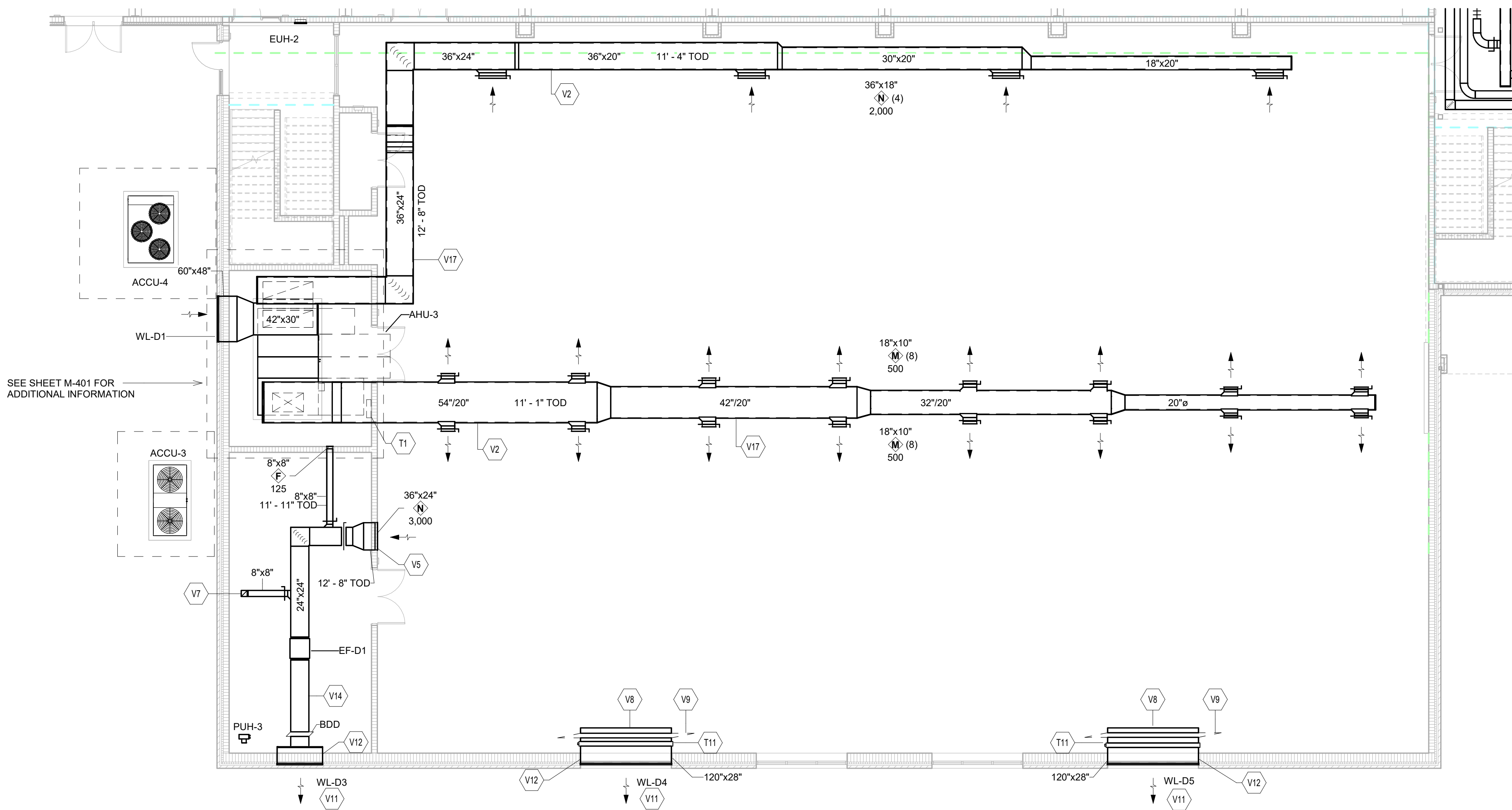
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UNIT D - SECOND FLOOR VENTILATION PLAN - ALTERNATE

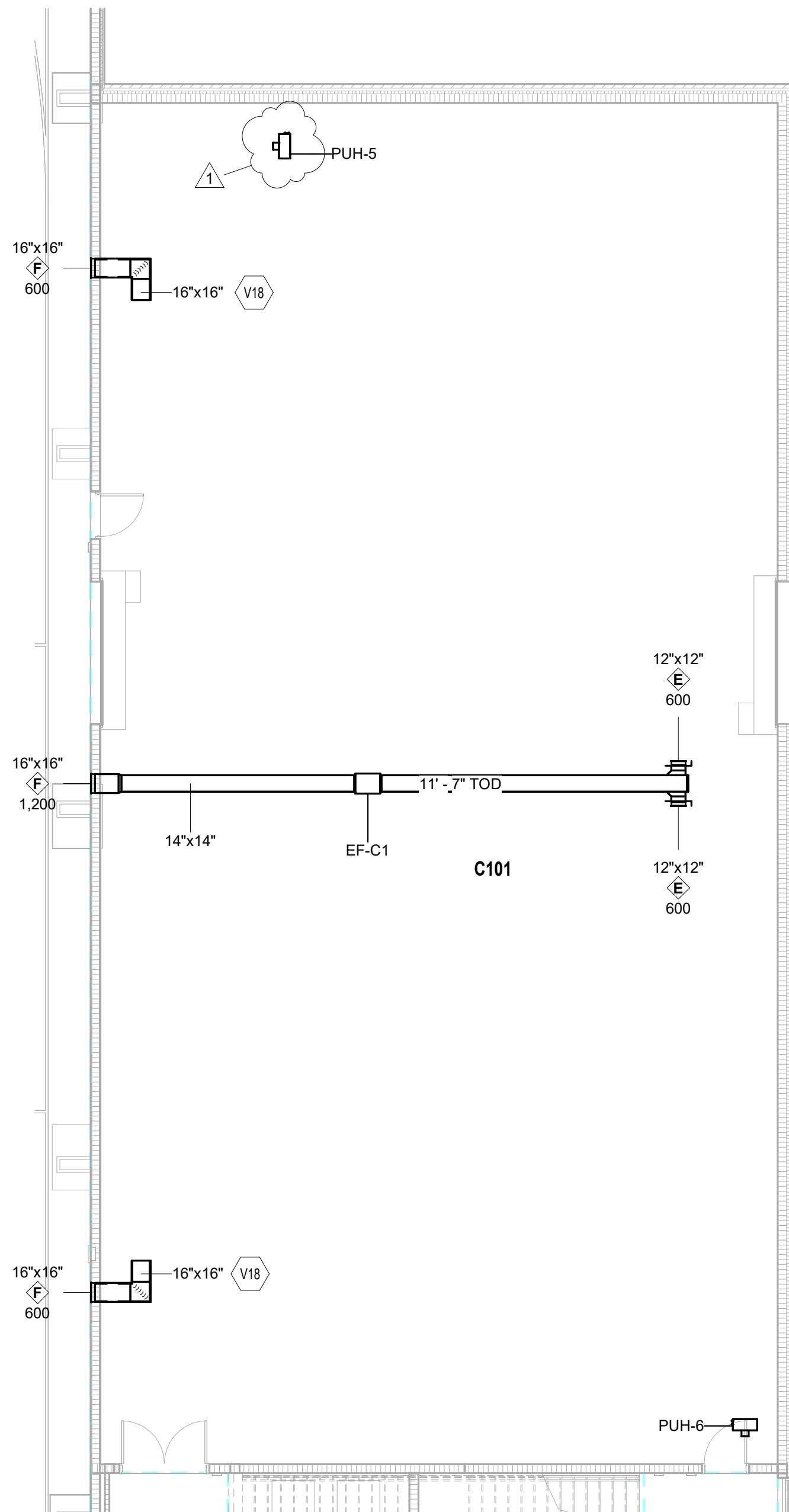
SCALE: 1/8" = 1'-0"



UNIT D - FIRST FLOOR VENTILATION PLAN - ALTERNATE

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

ROOM LEGEND - ALTERNATE		
ROOM NO.	ROOM NAME	AREA (SF)
C101	STORAGE	4561 SF
D101	WRESTLING	9337 SF
D102	STORAGE	518 SF
D103	MECHANICAL	303 SF
D104	VESTIBULE	104 SF
D105	SOUND CLOSET	38 SF
D201	OBSERVATION	1998 SF
D202	DANCE	7466 SF
D203	STORAGE	289 SF
D204	MECHANICAL	314 SF
D205	KITCHENETTE	207 SF
D206	SOUND CLOSET	16 SF
S-3	STAIR	119 SF
S-3	STAIR	187 SF



UNIT C - FIRST FLOOR VENTILATION PLAN - ALTERNATE

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

VENTILATION PLAN GENERAL NOTES

- ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
- REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
- PROVIDE BALANCING DAMPERS AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
- INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 4' ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
- COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
- COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
- ALL RETURN EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
- RELIEF CONTROL DAMPER PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST AND CALIBRATE RELIEF CONTROL DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.
- INSTALL DUCTWORK AS HIGH AS POSSIBLE. HOLD TIGHT TO STRUCTURES.
- ROUTE DUCTWORK BETWEEN/THROUGH STRUCTURAL STEEL. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR AND ALL OTHER TRADES.
- COORDINATE FINAL DIFFUSER/GRILLE COLOR WITH ARCHITECT.
- DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL IN AREA.
- END OF DUCT OPENING TO SPACE. OPENING TO BE PROTECTED WITH BIRDSCREEN.
- BAROMETRIC RELIEF DAMPER. CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST AND CALIBRATE RELIEF DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.
- INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION. REFER TO DETAIL.
- INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 8" BEYOND DUCTWORK.
- WRAP EXHAUST FAN DUCTWORK WITH INSULATION FROM WALL LOUVER TO EXHAUST FAN.
- PROVIDE DOUBLE WALL INSULATED DUCTWORK. PAINT EXPOSED DUCTWORK AND ASSOCIATED AIR DEVICES TO COLOR SELECTED BY THE ARCHITECT. COORDINATE WITH DIVISION 3.
- DUCTWORK PROVIDED WITH INTERNAL LINED INSULATION. REFER TO SPECIFICATIONS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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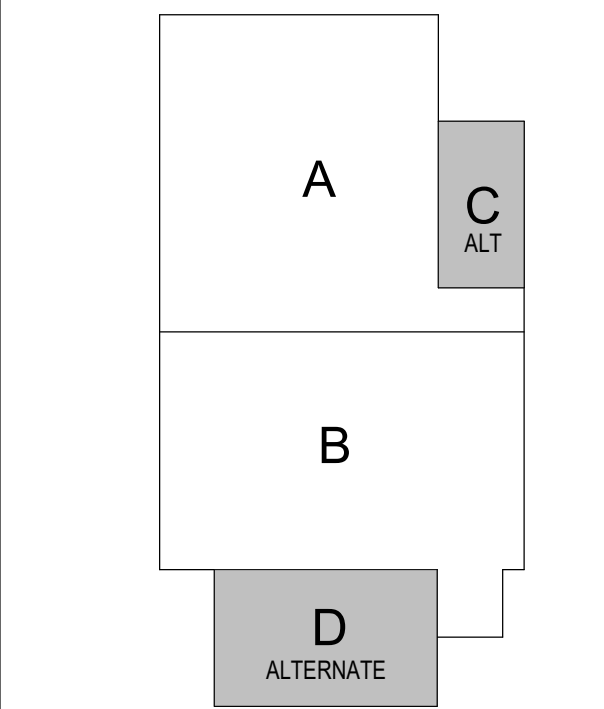
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PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

VENTILATION PLAN - UNIT C & D (ALTERNATE)

MV203

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**



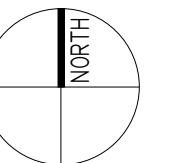
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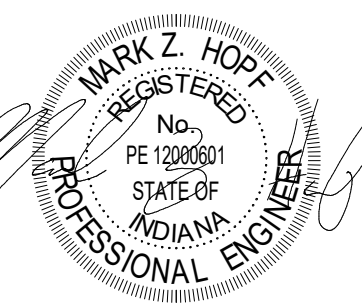
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C  
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D  
ALTERNATE



## Construction Documents

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# MP101

### HVAC PIPING PLAN GENERAL NOTES

- ### TEMPERATURE CONTROL PLAN GENERAL NOTES

- A.** REFER TO SECTION 23 05 00 GENERAL REQUIREMENTS AND CONDITIONS FOR THE TRANSPORT, STORAGE, DEMOLITION, & INSTALLATION AS DESCRIBED HEREIN.
- B.** **BUILDING HEATING & COOLING PLANT CONTROLS**  
TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ITEMS SUCH AS, BUT NOT BE LIMITED TO, CONTROL EQUIPMENT, VALVES, ACTUATORS, SENSORS, DEVICES, COMPONENTS, & COORDINATION FOR COMPLETE & FUNCTIONAL BUILDING TEMPERATURE CONTROL SYSTEM.



(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- P1 DASHED LINE INDICATES APPROPRIATE CLEARANCE  
REQUIRED IN FRONT OF CONTROL PANEL TO VARIABLE  
VOLUME.
- P5 INSTALL CONDENSING UNIT ON 6" CONCRETE PAD  
COORDINATE EXACT LOCATION AND INSTALLATION WITH  
ALL TRADES.
- P11 INSTALL ALL REFRIGERANT PIPING PER THE  
MANUFACTURER'S RECOMMENDATIONS. ALL PIPING ON THE  
ENTIRE BUILDING SHALL BE INSULATED WITH 1" POLYURETHANE  
INSULATION AND THEN COVERED WITH 1/2" PAPER JACKET PER  
THE PROJECT MANUAL. PROVIDE PIPE SUPPORTS AS  
REQUIRED TO PROPERLY SUPPORT THE PIPING.
- P12 CAP PIPING WATER TIGHT FOR FUTURE ADDITION.
- T12 APPROXIMATE LOCATION OF HIGH VOLUME LOW SPEED  
CEILING FAN CONTROLLER. COORDINATE EXACT LOCATION  
WITH ALL TRADES.
- T16 CONTRACTORS PROVIDED BY ELECTRICAL CONTRACTOR  
FOR EXTERIOR BUILDING LIGHTING AND PARKING LOT  
LIGHTING. COORDINATE EXACT LOCATION AND QUANTITY  
WITH ELECTRICAL CONTRACTOR. REFER TO  
WIRE-LOUDED WIRING TO THE TEMPERATURE  
CONTROL SYSTEM. COORDINATE EXACT LOCATION AND  
QUANTITY WITH ELECTRICAL CONTRACTOR. REFER TO  
TEMPERATURE CONTROL SPECIFICATION.



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

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

**PENN HIGH  
SCHOOL  
FIELDHOUSE**

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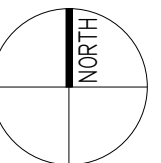
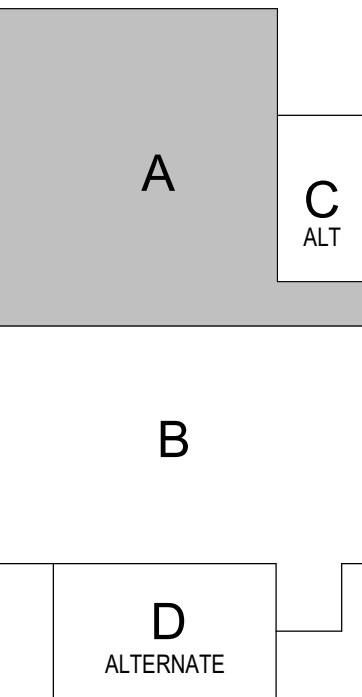
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## KEY PLAN

## Construction Documents



PROJECT MANAGER: MKS  
DRAWN BY: DJA  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: January 10, 2024

[illegible]

## SECOND FLOOR PIPING & CONTROL PLAN - UNIT A

# MP201

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54239 SF
A102	CORRIDOR	328 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	873 SF
B201	CORRIDOR	1444 SF
B202	LOCKER ROOM #3	399 SF
S-1	STAIR	81 SF

### HVAC PIPING PLAN GENERAL NOTES

- A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
- B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
- E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

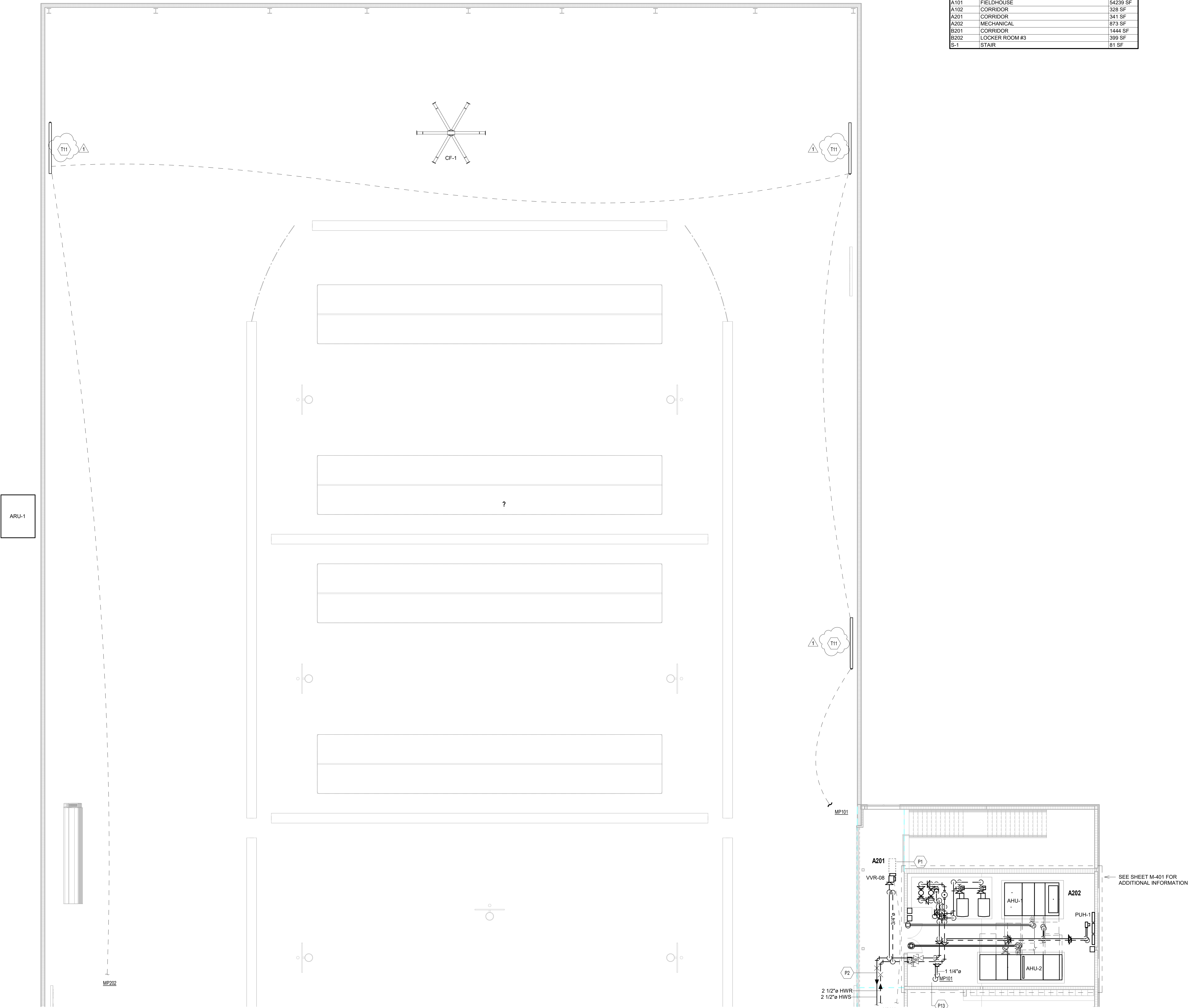
## TEMPERATURE CONTROL PLAN GENERAL NOTES

- A. REFER TO SECTION 23 05 00 GENERAL REQUIREMENTS AND CONDITIONS FOR THE TRANSPORT, STORAGE, DEMOLITION, & INSTALLATION AS DESCRIBED HEREIN.
- B. **BUILDING HEATING & COOLING PLANT CONTROLS:**  
TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ITEMS SUCH AS, BUT NOT BE LIMITED TO, CONTROL EQUIPMENT, VALVES, ACTUATORS, SENSORS, DEVICES, COMPONENTS, & COORDINATION FOR COMPLETE & FUNCTIONAL BUILDING TEMPERATURE CONTROL SYSTEM.

## HVAC PIPING &amp; CONTROL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- |     |  |
|-----|--|
| P1  | DASHED LINE INDICATES APPROXIMATE CLEARANCE<br>REQUIRED IN FRONT OF CONTROL PANEL TO VARIABLE<br>VOLUME TERMINAL   |
| P2  | PIPE ANCHOR. REFER TO PROJECT MANUAL SECTION<br>230516.  |
| P13 | PIPING ROUTED DOWN TO FLOOR BELOW. COORDINATE<br>WITH STRUCTURAL IN AREA   |
| T11 | RELIEF CONTROL DAMPER PROVIDED BY THE<br>TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY<br>THE MECHANICAL CONTRACTOR. CALIBRATED AND SET TO<br>MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE<br>SPACE. TEST AND CALIBRATE RELIEF CONTROL DAMPER<br>PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION. |



## UNIT A - SECOND FLOOR PIPING & CONTROL PLAN

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

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54239 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	673 SF
B201	CORRIDOR	1444 SF
B202	LOCKER ROOM #3	399 SF
B203	SHOWER	184 SF
B204	DRESSING ROOM #3	261 SF
B205	TOILET	74 SF
B206	TOILET	75 SF

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B207	DRESSING ROOM #4	270 SF
B208	SHOWER	184 SF
B209	LOCKER ROOM #4	402 SF
B210	CLASSROOM	842 SF
B211	CUSTODIAN	67 SF
B212	TOILET	63 SF
B213	TOILET	63 SF
B214	ELECTRICAL / TECHNOLOGY	58 SF
B215	ELEVATOR EQUIPMENT	55 SF

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
B216	CLASSROOM	840 SF
B217	COMMONS	984 SF
S-2	STAIR	175 SF

#### HVAC PIPING PLAN GENERAL NOTES

- A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
- B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
- E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

#### TEMPERATURE CONTROL PLAN GENERAL NOTES

- A. REFER TO SECTION 23 05 00 GENERAL REQUIREMENTS AND CONDITIONS FOR THE TRANSPORT, STORAGE, DEMOLITION, & INSTALLATION AS DESCRIBED HEREIN.
- B. **BUILDING HEATING & COOLING PLANT CONTROLS**  
TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ITEMS SUCH AS, BUT NOT BE LIMITED TO, CONTROL EQUIPMENT, VALVES, ACTUATORS, SENSORS, DEVICES, COMPONENTS, & COORDINATION FOR COMPLETE & FUNCTIONAL BUILDING TEMPERATURE CONTROL SYSTEM.

#### HVAC PIPING & CONTROL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- P1 DASHED LINE INDICATES APPROXIMATE CLEARANCE REQUIRED IN FRONT OF CONTROL PANEL TO VARIABLE VOLUME TERMINAL
- P2 PIPE ANCHOR. REFER TO PROJECT MANUAL SECTION 230616
- P4 NESTED HOSE AND BRAID PIPE EXPANSION LOOP SIZED FOR EXPANSION. REFER TO DETAIL
- P8 DIFFERENTIAL PRESSURE TRANSMITTER FOR HEATING WATER VARIABLE VOLUME PUMP CONTROL. TRANSMITTER PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR
- P13 PIPING ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL IN AREA
- T5 TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE AVERAGING THERMOSTATS
- T7 APPROXIMATE LOCATION OF 2-WAY MODULATING HEATING WATER CONTROL VALVE. SET TO MINIMUM FLOW THROUGHOUT THE HEATING SYSTEM (25 GPM). IF WRESTLING/DANCE ADDITION IS APPROVED THIS CAN BE ELIMINATED.
- T11 RELIEF CONTROL DAMPER PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST AND CALIBRATE RELIEF CONTROL DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.
- T13 EXHAUST FAN SHALL BE CONTROLLED VIA LOCAL TIMER SWITCH.

#### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

### PENN-HARRIS-MADISON SCHOOL CORPORATION



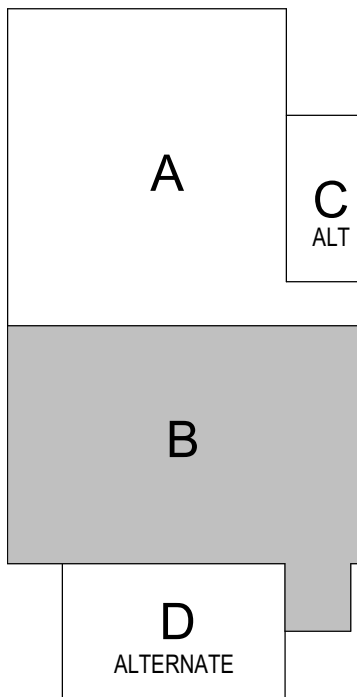
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#### KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

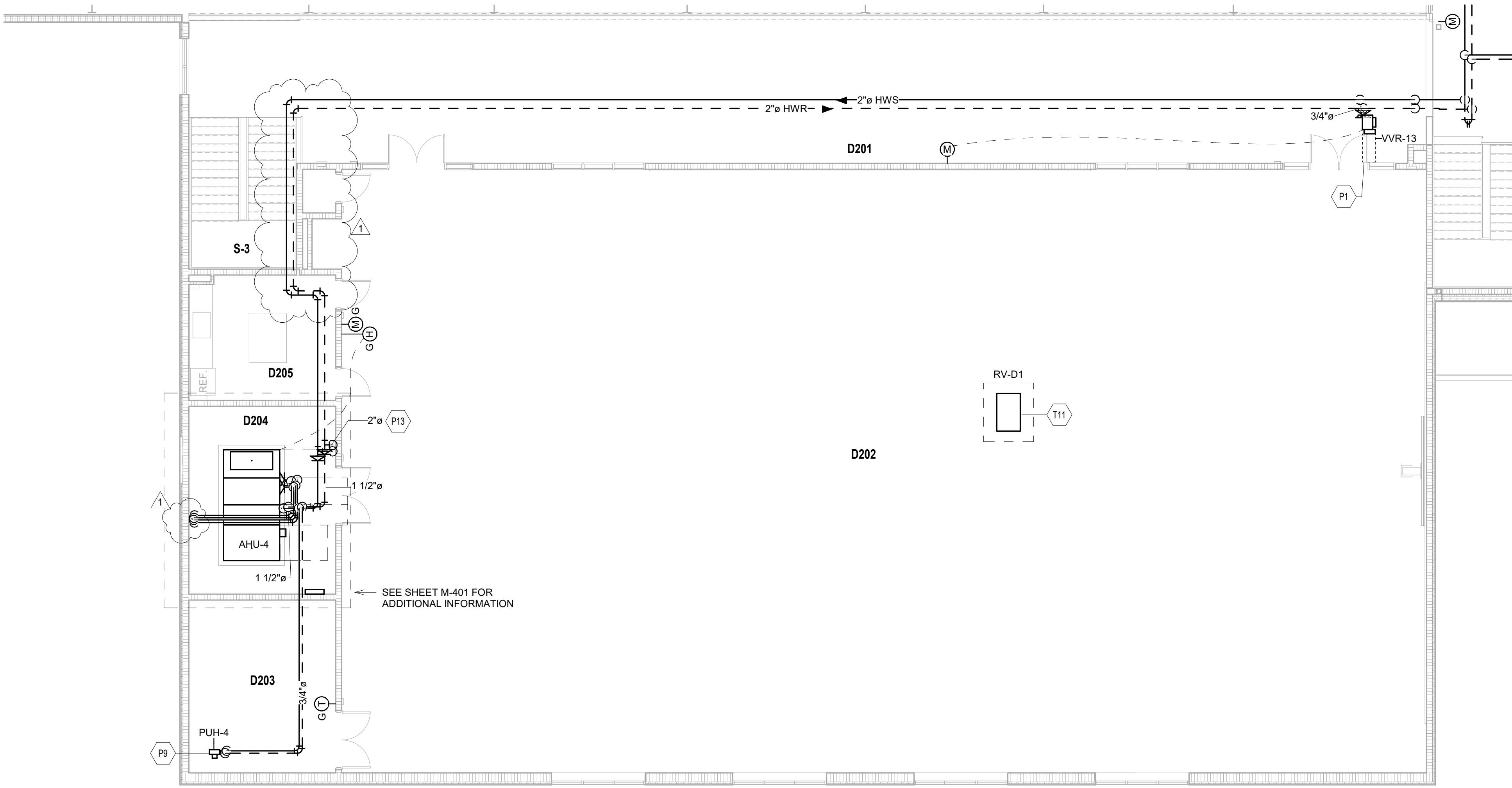
SECOND FLOOR PIPING & CONTROL PLAN - UNIT B

# MP202

## UNIT B - SECOND FLOOR PIPING & CONTROL PLAN

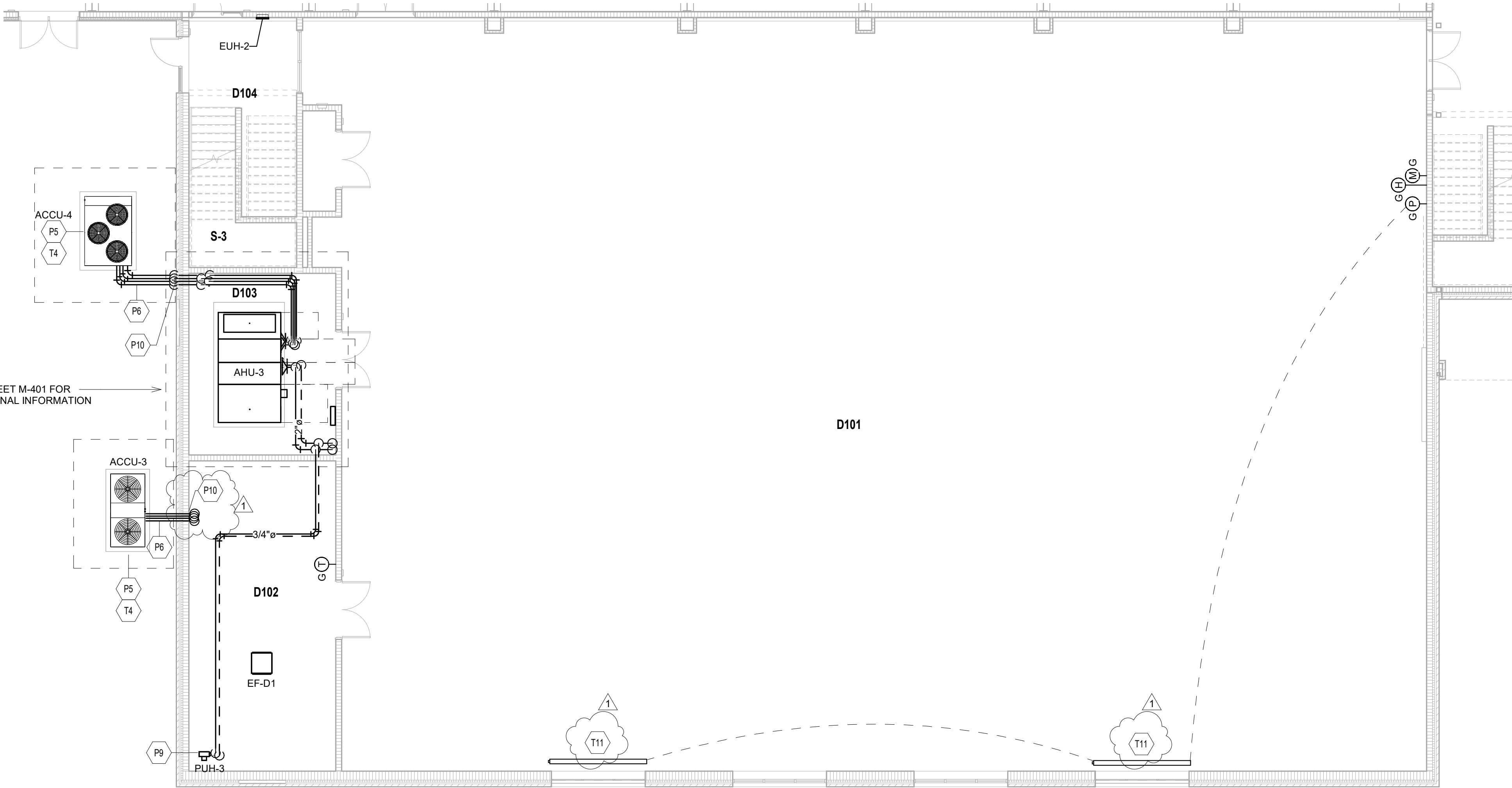
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### UNIT D - SECOND FLOOR PIPING & CONTROL PLAN - ALTERNATE

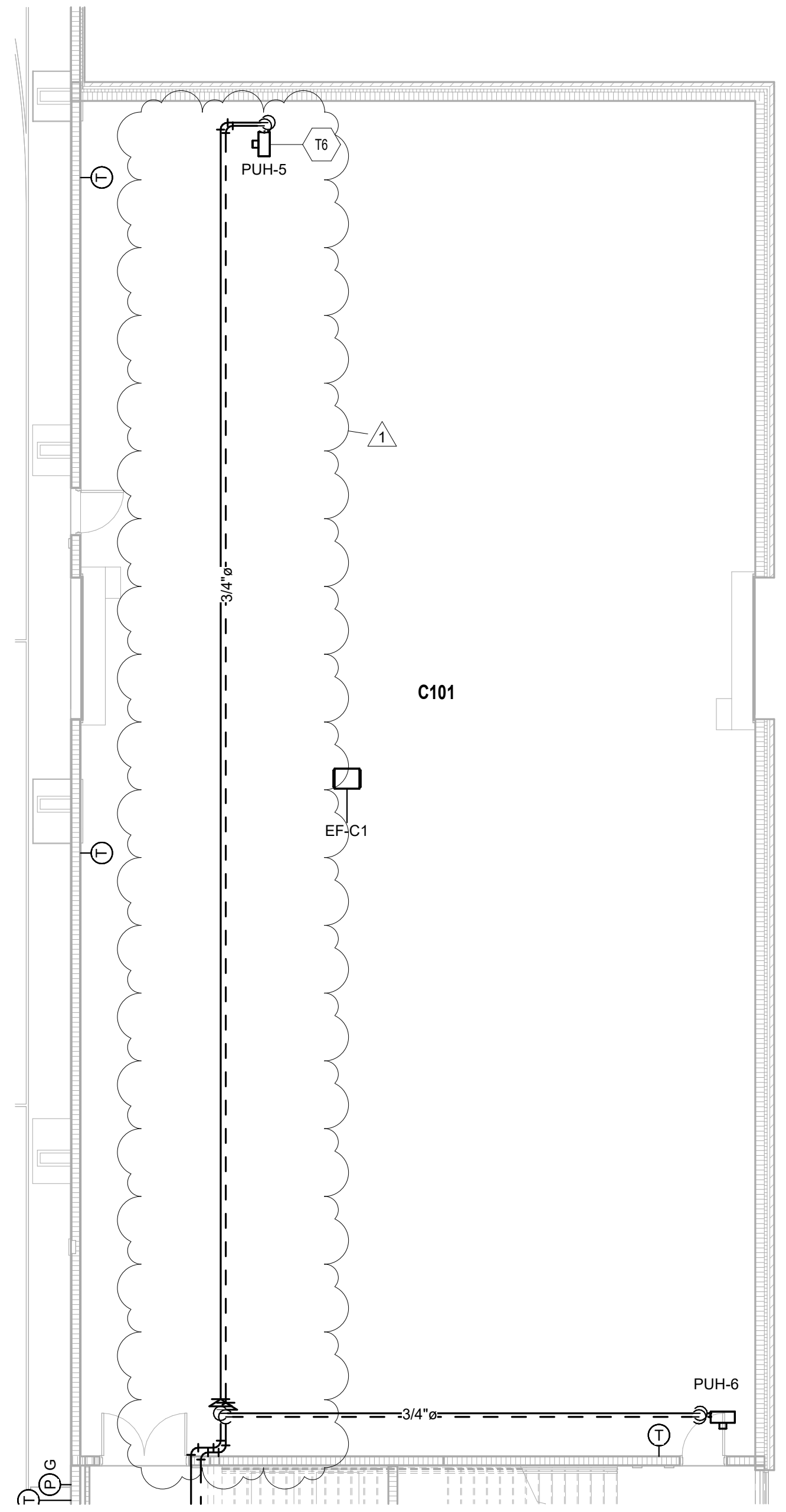
SCALE: 1/8" = 1'-0"



### UNIT D - FIRST FLOOR PIPING & CONTROL PLAN - ALTERNATE

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

ROOM LEGEND - ALTERNATE		
ROOM NO.	ROOM NAME	AREA (SF)
C101	STORAGE	4561 SF
D101	WRESTLING	9337 SF
D102	STORAGE	518 SF
D103	MECHANICAL	303 SF
D104	VESTIBULE	104 SF
D105	SOUND CLOSET	38 SF
D201	OBSERVATION	1998 SF
D202	DANCE	7466 SF
D203	STORAGE	289 SF
D204	MECHANICAL	314 SF
D205	KITCHENETTE	207 SF
D206	SOUND CLOSET	16 SF
S-3	STAIR	119 SF
S-3	STAIR	187 SF



### UNIT C - FIRST FLOOR PIPING & CONTROL PLAN - ALTERNATE

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

#### HVAC PIPING PLAN GENERAL NOTES

- A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- B. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- C. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

#### TEMPERATURE CONTROL PLAN GENERAL NOTES

- A. REFER TO SECTION 23 05 00 GENERAL REQUIREMENTS AND CONDITIONS FOR THE TRANSPORT, STORAGE, DEMOLITION, & INSTALLATION AS DESCRIBED HEREIN.
- B. **BUILDING HEATING & COOLING PLANT CONTROLS**  
TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ITEMS SUCH AS, BUT NOT BE LIMITED TO, CONTROL EQUIPMENT, VALVES, ACTUATORS, SENSORS, DEVICES, COMPONENTS, & COORDINATION FOR COMPLETE & FUNCTIONAL BUILDING TEMPERATURE CONTROL SYSTEM.

#### HVAC PIPING & CONTROL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- P1 DASHED LINE INDICATES APPROXIMATE CLEARANCE REQUIRED IN FRONT OF CONTROL PANEL TO VARIABLE VOLUME TERMINAL.
- P5 INSTALL CONDENSING UNIT ON 6" CONCRETE PAD. COORDINATE EXACT LOCATION AND INSTALLATION WITH ALL TRADES.
- P6 INSTALL ALL REFRIGERANT PIPING PER THE MANUFACTURER'S RECOMMENDATIONS. ALL PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE WRAPPED WITH INSULATION AND THEN COVERED WITH A PVC JACKET PER THE PROJECT MANUAL. PROVIDE PIPE SUPPORTS AS REQUIRED TO PROPERLY SUPPORT THE PIPING.
- P9 SUPPORT UNIT HEATER FROM STRUCTURE ABOVE WITH SUPPLEMENTAL STEEL AND THREADED ROD AS REQUIRED. COORDINATE FINAL HEIGHT IN FIELD.
- P10 ROUTE REFRIGERANT PIPING THROUGH THE WALL OR THROUGH ROOF. SEAL ALL AROUND THE PIPING.
- P13 PIPING ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL IN AREA.
- T4 TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING CONTROL WIRING TO OUTDOOR CONDENSING UNIT.
- T6 APPROXIMATE LOCATION OF 3-WAY MODULATING HEATING WATER CONTROL VALVE.
- T11 RELIEF CONTROL DAMPER PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. CALIBRATED AND SET TO MAINTAIN A SLIGHT POSITIVE PRESSURE WITHIN THE SPACE. TEST AND CALIBRATE RELIEF CONTROL DAMPER PRIOR TO CONSTRUCTION SUBSTANTIAL COMPLETION.

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## PENN HIGH SCHOOL FIELDHOUSE

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Indiana 46545

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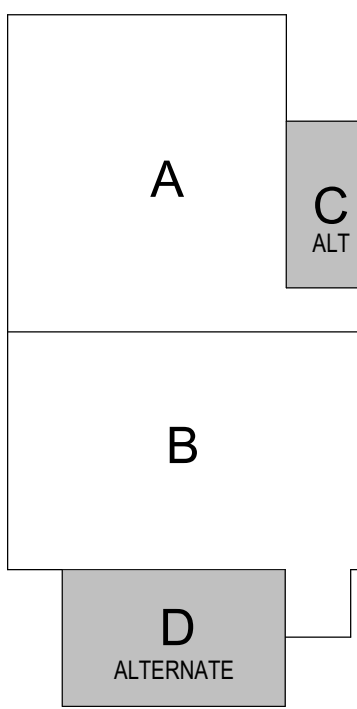
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#### KEY PLAN

Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

PIPING & CONTROL PLAN - UNIT C &  
D (ALTERNATE)

# MP203

#### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

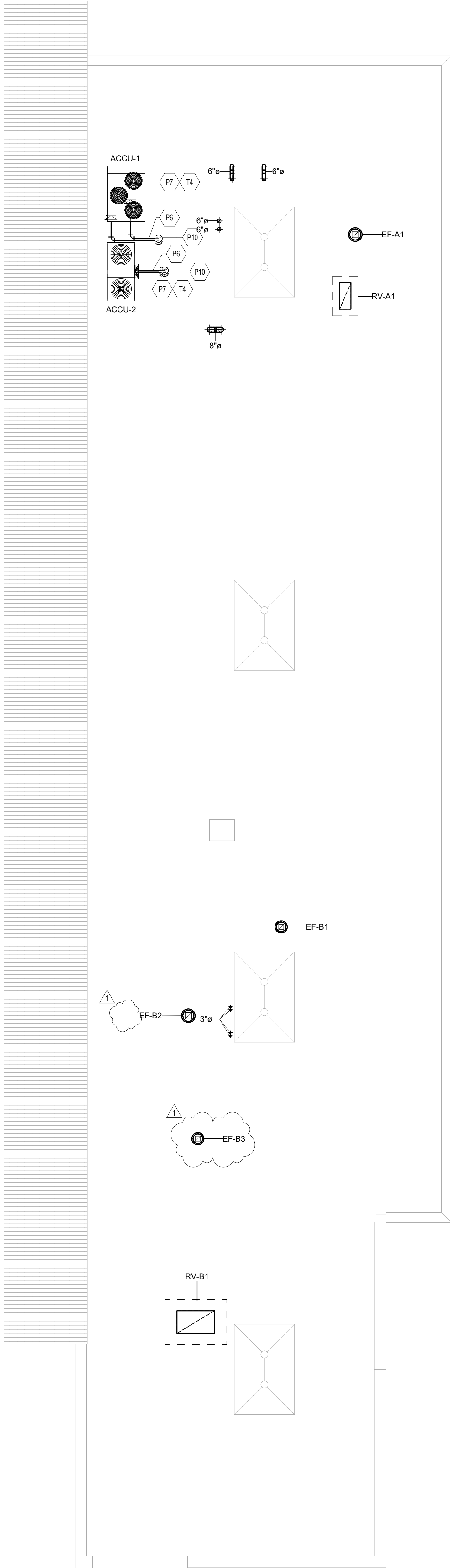
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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UNIT D - SECOND FLOOR ROOF PLAN - ALTERNATE

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



SECOND FLOOR ROOF PLAN

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

MECHANICAL ROOF PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- P6 INSTALL ALL REFRIGERANT PIPING PER THE MANUFACTURER'S RECOMMENDATIONS. ALL PIPING ON THE EXTERIOR OF THE BUILDING SHALL BE WRAPPED WITH INSULATION AND THEN COVERED WITH A PVC JACKET PER THE PROJECT MANUAL. PROVIDE PIPE SUPPORTS AS REQUIRED TO PROPERLY SUPPORT THE PIPING.
- P7 CONDENSING UNIT MOUNTED ON ROOF. INSTALLED ON INSULATED VIBRATION ISOLATION ROOF CURB.
- P10 ROUTE REFRIGERANT PIPING THROUGH THE WALL OR THROUGH ROOF. SEAL ALL AROUND THE PIPING.
- T4 TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING CONTROL WIRING TO OUTDOOR CONDENSING UNIT.

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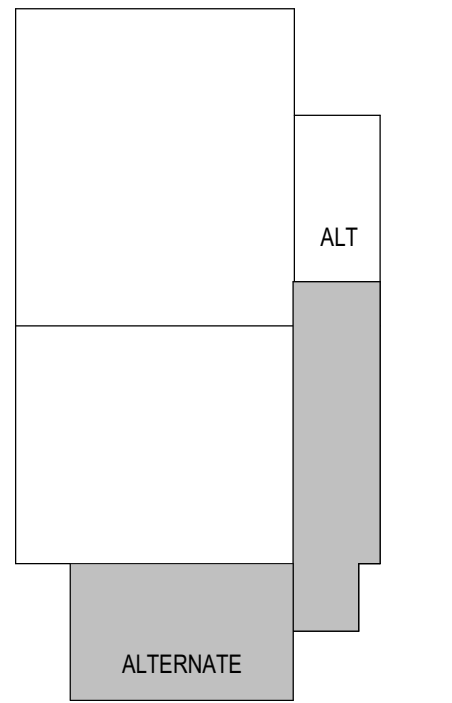
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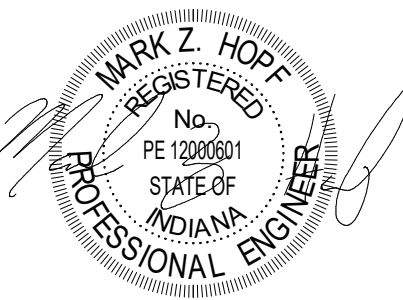
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Construction Documents



PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

VERIFICATION NOTE

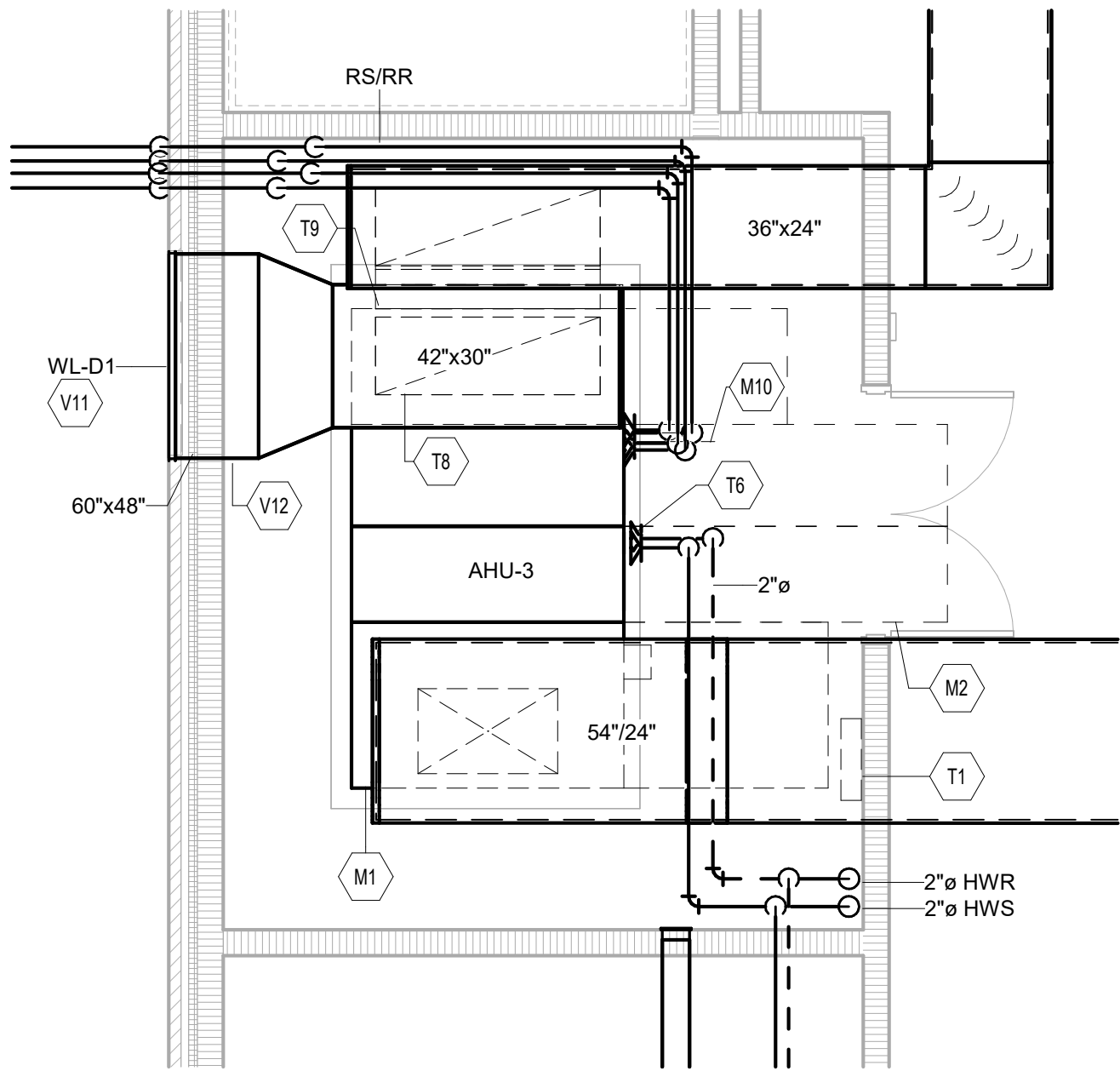
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

MECHANICAL ROOF PLAN

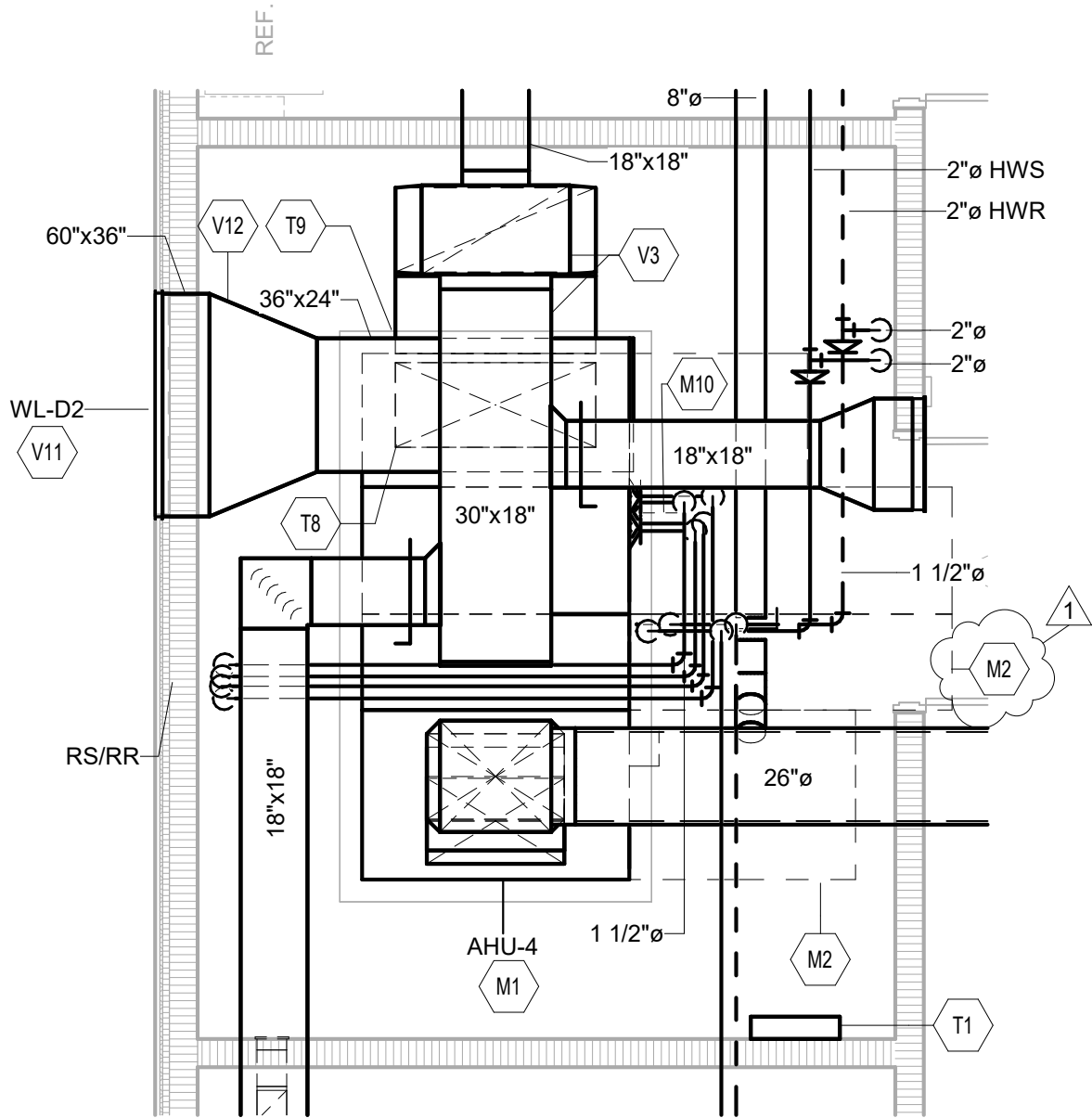
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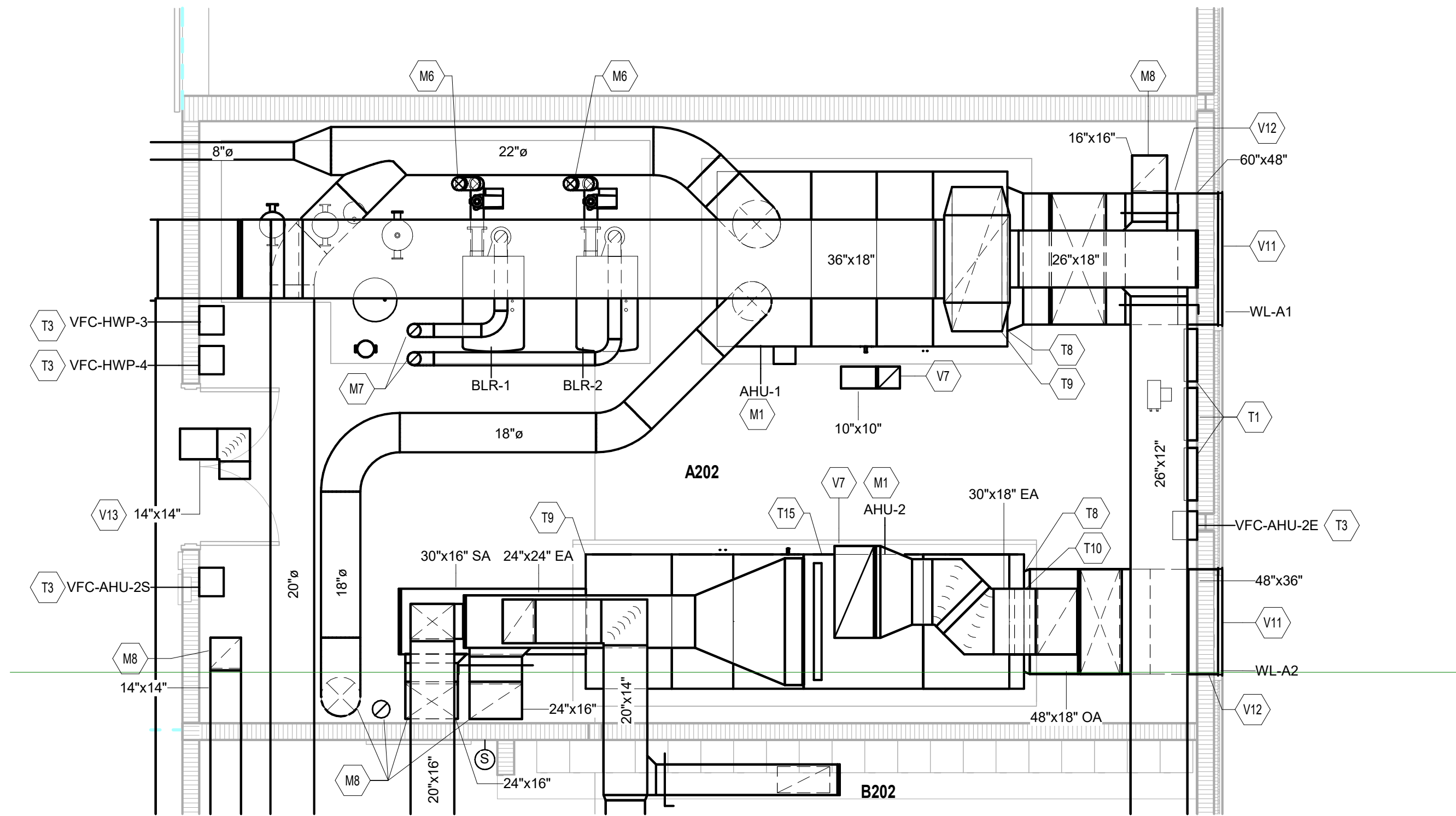
### UNIT D - FIRST FLOOR MECHANICAL ROOM

SCALE: 1/4" = 1'-0"



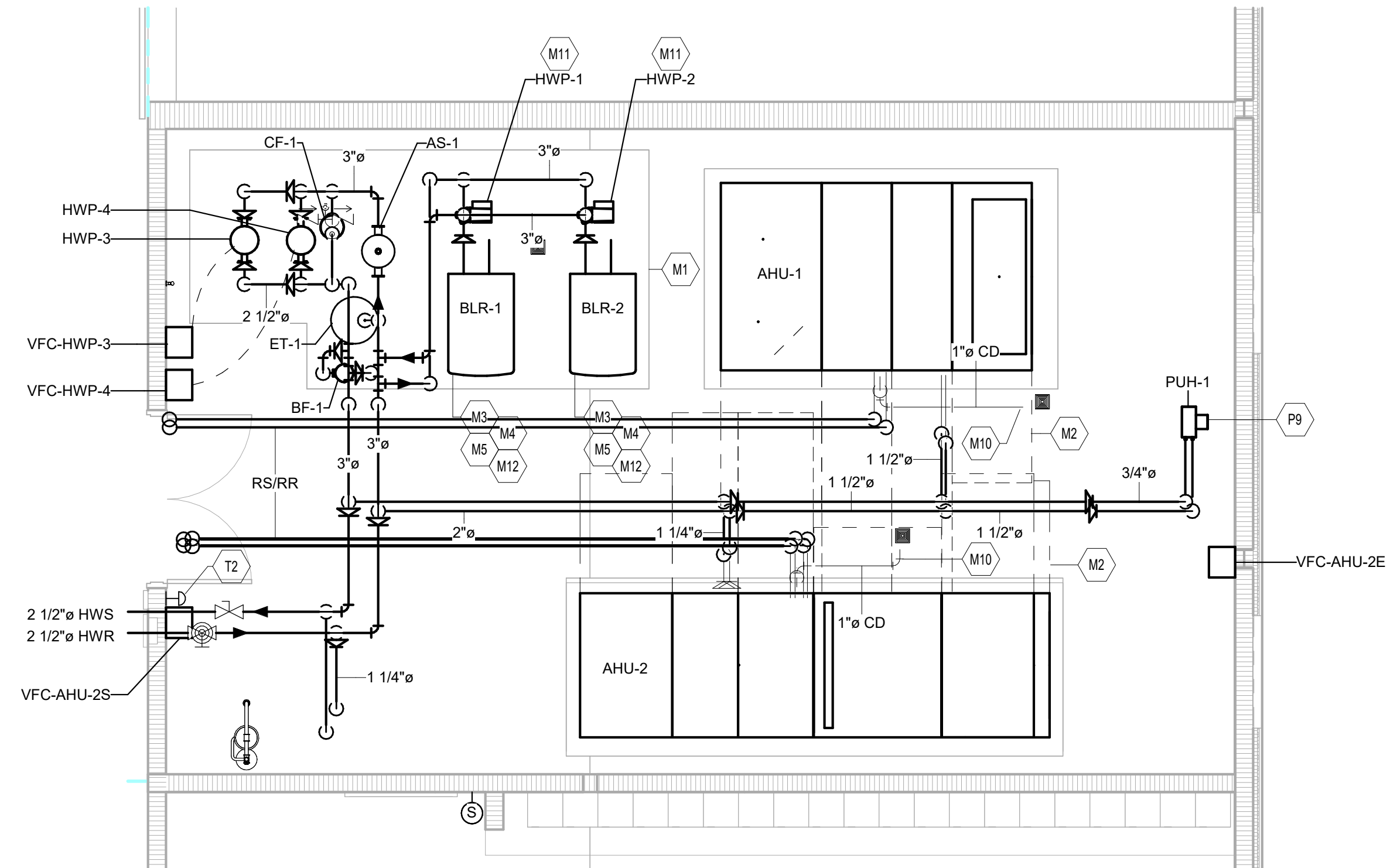
### UNIT D - SECOND FLOOR MECHANICAL ROOM

SCALE: 1/4" = 1'-0"



### UNIT A - SECOND FLOOR BOILER ROOM VENTILATION PLAN

SCALE: 1/4" = 1'-0"



### UNIT A - SECOND FLOOR BOILER ROOM PIPING PLAN

SCALE: 1/4" = 1'-0"

#### MECHANICAL ROOM PLAN GENERAL NOTES

- ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
- REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
- ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
- SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
- ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
- PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
- INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
- COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
- COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
- ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.
- HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

#### MECHANICAL ROOM PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- INSTALL EQUIPMENT ON 3.75" HIGH CONCRETE HOUSEKEEPING PAD.
- CLEARANCE REQUIRED FOR AIR HANDLING UNIT COIL PULLS.
- NATURAL GAS TRAIN APPROVED BY FACTORY MUTUAL (FM) DIVISION 2 PLUMBING CONTRACTOR TO INSTALL NATURAL GAS PIPING TO END OF GAS TRAIN. REFER TO DETAIL.
- PROVIDE AND INSTALL PRESSURE RELIEF VALVE TO BOILER. REFER TO BOILER MANUFACTURER FOR RECOMMENDED LOCATION, PIPE FULL SIZE TO FLOOR DRAIN. SUPPORT PIPING INDEPENDENTLY OF VALVE TO PREVENT STRESS AND TO ALLOW PROPER OPERATION.
- PROVIDE AND INSTALL CONDENSATE PIPING, TRAP, ASSEMBLY AND CONDENSATE NEUTRALIZER KIT PER MANUFACTURERS REQUIREMENTS FOR EACH BOILER. ROUTE CONDENSATE PIPING TO NEAREST FLOOR DRAIN AS SHOWN ON DRAWINGS. PROVIDE PIT FOR NEUTRALIZATION KIT AND SUPPORT FOR CONDENSATE TRAP AS NECESSARY.
- PROVIDE AND INSTALL 6" COMBUSTION AIR INLET PER MANUFACTURERS REQUIREMENTS FOR EACH BOILER. COORDINATE FINAL VENT DIAMETER WITH APPROVED SUBMITTALS. EXHAUST VENT MUST BE 3 FEET ABOVE THE COMBUSTION AIR INLET, AND 2 FEET ABOVE ANY HIGHER PORTION OF THE BUILDING WITHIN 10 FEET. TERMINATE THE VENT WITH AN SUPPORT COLLAR, ROOF FLASHING AND VENT COTE.
- DUCT ROUTED DOWN TO FLOOR BELOW. COORDINATE WITH STRUCTURAL STEEL IN AREA.
- CONDENSATE DRAIN PIPING WITH WATER SEAL TRAP FROM UNIT TO NEAREST FLOOR DRAIN. CUT END OF PIPE AT 45 DEGREE ANGLE. CONDENSATE DRAIN PIPING AND TRAP SIZED PER MANUFACTURERS REQUIREMENTS. REFER TO DETAIL.
- PROVIDE AND INSTALL IN-LINE PRIMARY PUMPS FOR EACH BOILER. REFER TO DETAIL. SEE MECHANICAL SCHEDULES AND SPECIFICATIONS.
- BOILER MAKE-UP WATER LINE SHALL CONNECT TO 1" DOMESTIC WATER LINE IN THIS ROOM. CONNECT TO DOMESTIC WATER LINE WITH BACKFLOW PREVENTER.
- SUPPORT UNIT HEATER FROM STRUCTURE ABOVE WITH SUPPLEMENTAL STEEL AND THREADED ROD AS REQUIRED. COORDINATE FINAL HEIGHT IN FIELD.
- APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL. COORDINATE EXACT LOCATION WITH ALL TRADES.
- APPROXIMATE LOCATION OF BOILER SHUT-DOWN SWITCH PROVIDED AND INSTALLED BY TEMPERATURE CONTROL CONTRACTOR. EMERGENCY EQUIPMENT SHUT-DOWN SWITCH SHALL SEND AN ALARM TO THE BAS. COORDINATE WITH ALL TRADES.
- TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING WIRING BETWEEN VARIABLE FREQUENCY CONTROLLER(S) AND EQUIPMENT.
- APPROXIMATE LOCATION OF 3-WAY MODULATING HEATING WATER CONTROL VALVE.
- OUTSIDE AIR CONTROL DAMPER SHALL BE FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED BY TEMPERATURE CONTROL CONTRACTOR.
- RETURN AIR CONTROL DAMPER SHALL BE FACTORY MOUNTED IN AIR HANDLING UNIT. DAMPER OPERATORS PROVIDED BY TEMPERATURE CONTROL CONTRACTOR.
- ENERGY RECOVERY WHEEL BYPASS DAMPERS SHALL BE FACTORY MOUNTED IN AIR HANDLING UNIT. WIRING AND TERMINATIONS BY TEMPERATURE CONTROL CONTRACTOR. DAMPER OPERATORS PROVIDED BY TEMPERATURE CONTROL CONTRACTOR.
- ROUTE DUCTWORK BETWEEN/THROUGH STRUCTURAL STEEL. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR AND ALL OTHER TRADES.
- DUCT ROUTED UP TO FLOOR ABOVE. COORDINATE WITH STRUCTURAL IN AREA.
- INSULATED SHEET METAL PLENUM MOUNTED BEHIND WALL LOUVER. TRANSITION BOTTOM OF DUCT AT A SLOPE DOWNWARD TO WALL LOUVER. SEAL ALL SEAMS AND EDGES WATER TIGHT. WRAP PLENUM WITH INSULATION. REFER TO DETAIL.
- INSTALL DRIP PAN UNDER WALL LOUVER. PAN SHALL BE SEALED WATER TIGHT. DRIP PAN TO EXTEND A MINIMUM OF 8" BEYOND DUCTWORK.
- AIR TRANSFER WALL OPENING LOCATED ABOVE THE CEILING. COORDINATE EXACT LOCATION WITH ALL TRADES. END OF DUCT OPEN TO SPACE.

#### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

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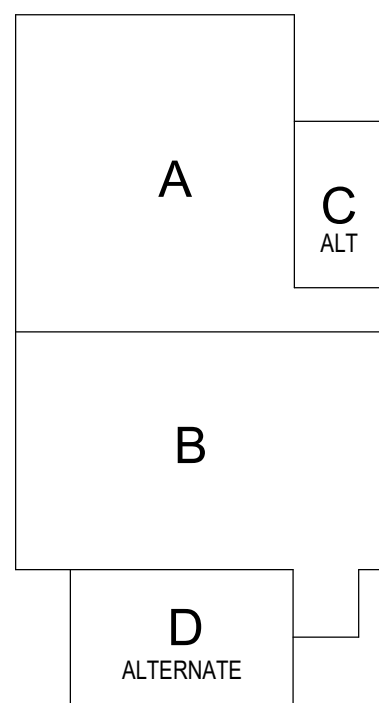
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## FANNING HOWEY

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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



#### KEY PLAN

#### Construction Documents

PROJECT MANAGER: MKS

DRAWN BY: DJA

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: January 10, 2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1-26-24

#### MECHANICAL ROOM

# M-401

NOTES:

10 2" MERV 8 FILTERS.

11 FACTORY MOUNTED OUTSIDE AND RETURN AIR DAMPERS SIZED FOR 100% AIRFLOW.

12 MAXIMUM NOISE LEVEL SHALL BE 70 dBA WHEN STANDING 10' AWAY AT GROUND LEVEL.

13 STAINLESS STEEL HEAT EXCHANGER.

14 20:1 TURN DOWN - GAS HEATER.

15 CUSTOM COLOR AS SELECTED BY THE ARCHITECT/ENGINEER.

AIR-TO-AIR ENERGY RECOVERY EQUIPMENT SCHEDULE																												
IDENTITY DATA			AREA SERVED	SUPPLY AIR DATA								EXHAUST AIR DATA								HEAT WHEEL ELECTRICAL	NOTES							
TAG	MFG	MODEL		AIR FLOW		SUMMER		WINTER		AIR FLOW		SUMMER		WINTER		APO (in=wg)												
				CFM	OUT	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	CFM	OUT	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)													
AHU-2	TRANE	CSAA010	LOCKERS	4,750	5,004	88.1	72.7	77.1	64.6	-2	-3	51.2	42.3	5,705	5,450	74	61.7	83.2	69.1	72	55	25.6	24.4	1.00	460	3	60	1.3,4.5,6,7,8,10,11,12

NOTE:

5	UNIT SHALL BE INSTALLED ON 6" CONCRETE HOUSEKEEPING PAD WITH VIBRATION ISOLATORS COORDINATE EXACT LOCATION IN FIELD.
6	INSTALL REFRIGERANT PIPING SIZES AND QUANTITIES PER MANUFACTURERS REQUIREMENTS.
7	SINGLE POINT POWER CONNECTION.
8	PROVIDE COMPRESSOR BLANKETS FOR SOUND ATTENUATION.
9	PROVIDE WITH SCCR RATING OF 10KCAL OR ABOVE.

NOTE:

5 UNIT FURNISHED WITH ADJUSTABLE LOUVER FIN DIFFUSERS TO PROVIDE DIRECTIONAL AIR FLOW CONTROL

6 LOW VOLTAGE WALL MOUNTED 2-STAGE TEMPERATURE SENSOR BY THE TCC.

7 SUPPORT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF FOUR (4), 3/8" DIAMETER THREADED RODS  
AND VIBRATION ISOLATORS.

NOTE:

1	HORIZONTAL RECESSED UNIT
2	ELECTRIC HEAT WITH INTERNAL THERMOSTAT.
3	INCLUDE FACTORY MOUNTED DISCONNECT
4	PROVIDED WITH BUILT-IN THERMOSTAT.

NOTE:

- 1 SUPPORT HEATER FROM STRUCTURE ABOVE WITH A MINIMUM OF (2) 3/8" DIAMETER THREADED RODS
- 2 UNIT FURNISHED WITH ADJUSTABLE LOUVER FIN DIFFUSERS TO PROVIDE DIRECTIONAL AIR FLOW CONTROL
- 3 INCLUDE FACTORY MOUNTED DISCONNECT
- 4 REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS.

NOTES:

1	REFER TO SPECIFICATION SECTION 233423 FOR ADDITIONAL REQUIREMENTS.
2	COLOR SHALL BE PROVIDED FROM MANUFACTURER'S FULL RANGE OF COLORS AS SELECTED BY ARCHITECT/ENGINEER.
3	MOUNT BOTTOM AT 10'-0" AFF.
4	VFC SHALL BE FACTORY MOUNTED TO THE MOTOR AND WALL MOUNTED CONTROLLER.

NOTE:

- 1 REFER TO PROJECT MANUAL SECTION 089000.
- 2 SEAL ALL AROUND WITH SILICONE.
- 3 REFER TO INSTALLATION DETAILS ON ARCHITECTURAL DRAWING
- 4 CUSTOM COLOR AS SELECTED BY ARCHITECT/ENGINEER.
- 5 COORDINATE SIZE AND LOCATION WITH ALL TRADES.

NOTE:  
1 REFER TO PROJECT MANUAL SECTION 233723  
2 HOODS TO BE MOUNTED ON MINIMUM 12" HIGH ROOF CURB.  
3 COLOR SHALL BE PROVIDED FROM MANUFACTURER'S FULL RANGE OF COLORS AS SELECTED BY ARCHITECT/ENGINEER  
4 UNITS TO BE PROVIDED WITH A HINGE BASE KIT.  
5 CONTROL DAMPER PROVIDED BY TEMPERATURE CONTROL CONTRACTOR WHERE REQUIRED.  
6 DRIP PAN TO EXTEND A MINIMUM OF 6" ON EACH SIDE OF HOOD

NOTE:	NOTES:
1 INCLUDE DISCONNECT SWITCH:	A AUTOMATIC OCCUPIED OPERATION BY LOCAL TEMPERATURE
2 INCLUDE BACKDRIFT DAMPER:	B TIMER SWITCH CONTROL BY DIVISION 26
3 SUPPORT FROM STRUCTURE ABOVE WITH VIBRATION ISOLATORS	1 WITH TIMER SWITCH
4 REFER TO SPECIFICATION SECTION 23343 FOR ADDITIONAL REQUIREMENTS	2 WITH LIGHTS
5 MOUNT ON 12" HIGH ROOF CURB:	3 WITH LOCAL SWITCH
6 INSTALL DRIP PAN UNDER UNIT.	C AUTOMATIC OPERATION BY REVERSE ACTING THERMOSTAT
7 INCLUDE SPEED CONTROL AND FACTORY MOUNTED DISCONNECT.	D INTERLOCK EXHAUST FAN WITH POPCORN MACHINE
8 STANDARD COLOR AS SELECTED BY ARCHITECT/ENGINEER.	

# M-601

# PENN HIGH SCHOOL FIELD HOUSE

2641 McKinley Highway  
Mishawaka, IN 46545

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**



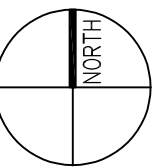
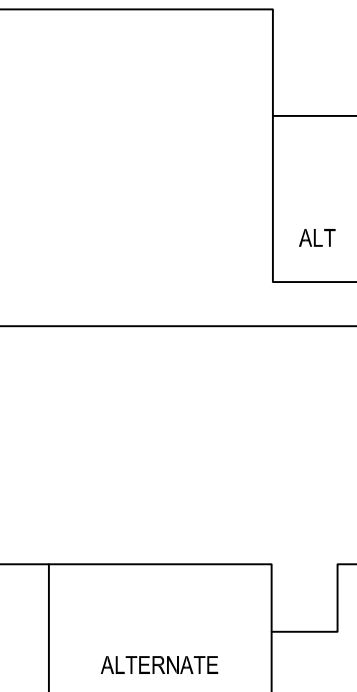
## ARCHITECT

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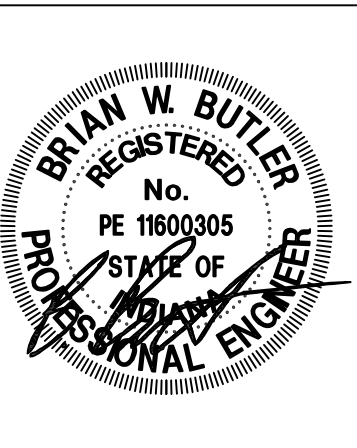
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## 100% Construction Documents



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PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 01.10.2024

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## ELECTRICAL SITE PLANS

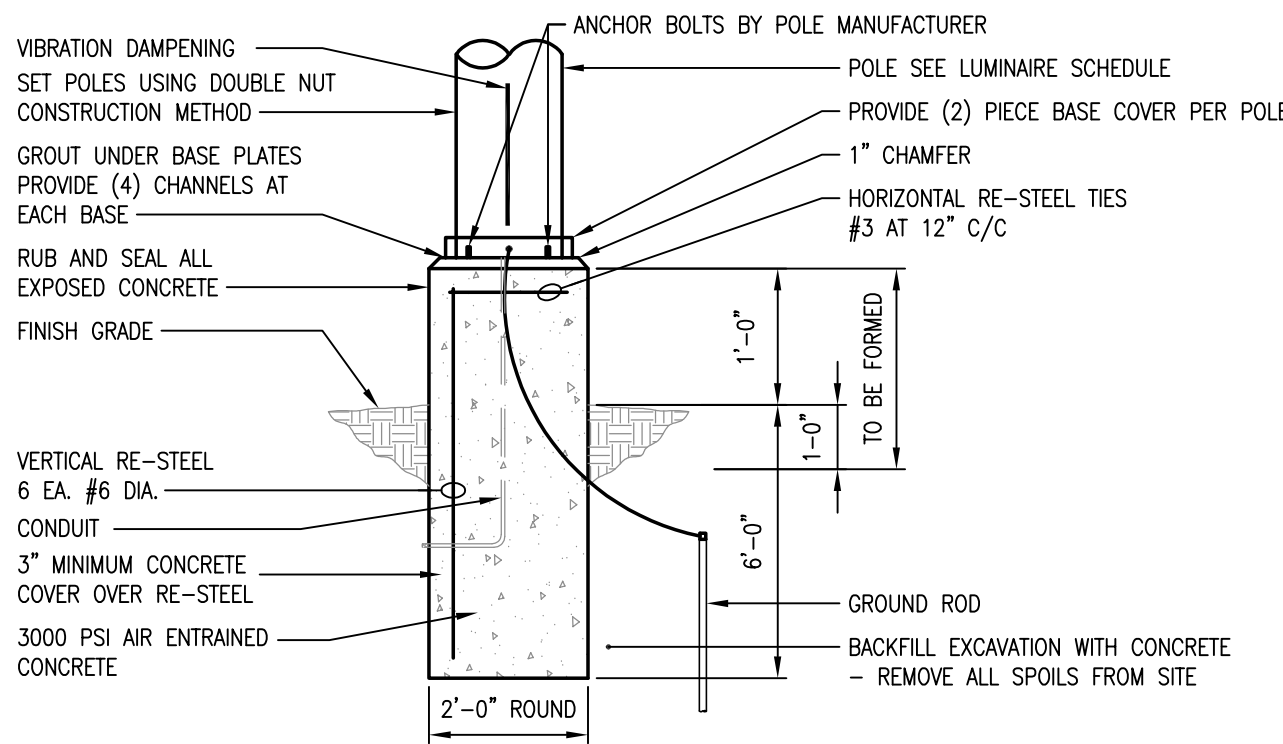
# ES101

**PLAN NOTES:**

- (L1)** WIRE SITE LIGHTING TO INDICATED 20A, 1-POLE CIRCUIT BREAKER IN PANEL "A1H1" VIA LIGHTING CONTACTOR LC-4 LOCATED ADJACENT TO PANEL. WIRE CONDUIT AND WIRE SIZE PER VOLTAGE DROP REQUIREMENTS.
- (L5)** PROVIDE WITH 2 # 8, #8 G IN 1" CONDUIT (TYPICAL).
- (L6)** IF ALTERNATE IS ACCEPTED, WIRE SOUTH PARKING LOT SITE LIGHTING TO LIGHTING CIRCUIT SERVING FIXTURES ALONG EXISTING DRIVE TO THE SOUTH.
- (P1)** UTILITY COMPANY PAD-MOUNTED TRANSFORMER. REQUIRE A PAD PER UTILITY COMPANY REQUIREMENTS.
- (P16)** PROVIDE 4" SCHEDULE 40 PVC CONDUIT FOR NEW UTILITY PRIMARY SERVICE.
- (P17)** PROVIDE 24" x 36" POLYMER CONCRETE PULL BOX LABELED "POWER" FOR UTILITY PRIMARY SERVICE.
- (P18)** IF ALTERNATE IS ACCEPTED, EXTEND UTILITY SERVICE CONDUIT TO ALTERNATE TRANSFORMER LOCATION.
- (E24)** GROUNDING FIELD FOR SECONDARY ELECTRIC SERVICE. REFER TO DETAILS ON SHEET E-501 FOR REQUIREMENTS. COORDINATE EXACT LOCATION WITH CIVIL DRAWINGS AND WITH OTHER SITE FEATURES IN THE SAME AREA.
- (E34)** BUILDING PERIMETER GROUNDING RING FOR SECONDARY ELECTRIC SERVICE. REFER TO PERIMETER MANUAL, SECTION 26 05 26 AND DETAILS ON SHEET E-501 FOR REQUIREMENTS. COORDINATE EXACT ROUTING WITH ALL EXISTING UTILITIES, CONDUIT, AND LEADERS, AND EXISTING CONDITIONS TO RUN GROUNDING CONDUCTOR CONTINUOUSLY AROUND PERIMETER OF BUILDING. CONNECT TO MAIN SERVICE GROUNDING BUSBAR IN ELECTRICAL ROOM IN ADDITION TO OTHER GROUNDING AND BONDING CONNECTIONS INDICATED IN PROJECT MANUAL, SECTION 26 05 26 AND DETAILS ON SHEET E-501.

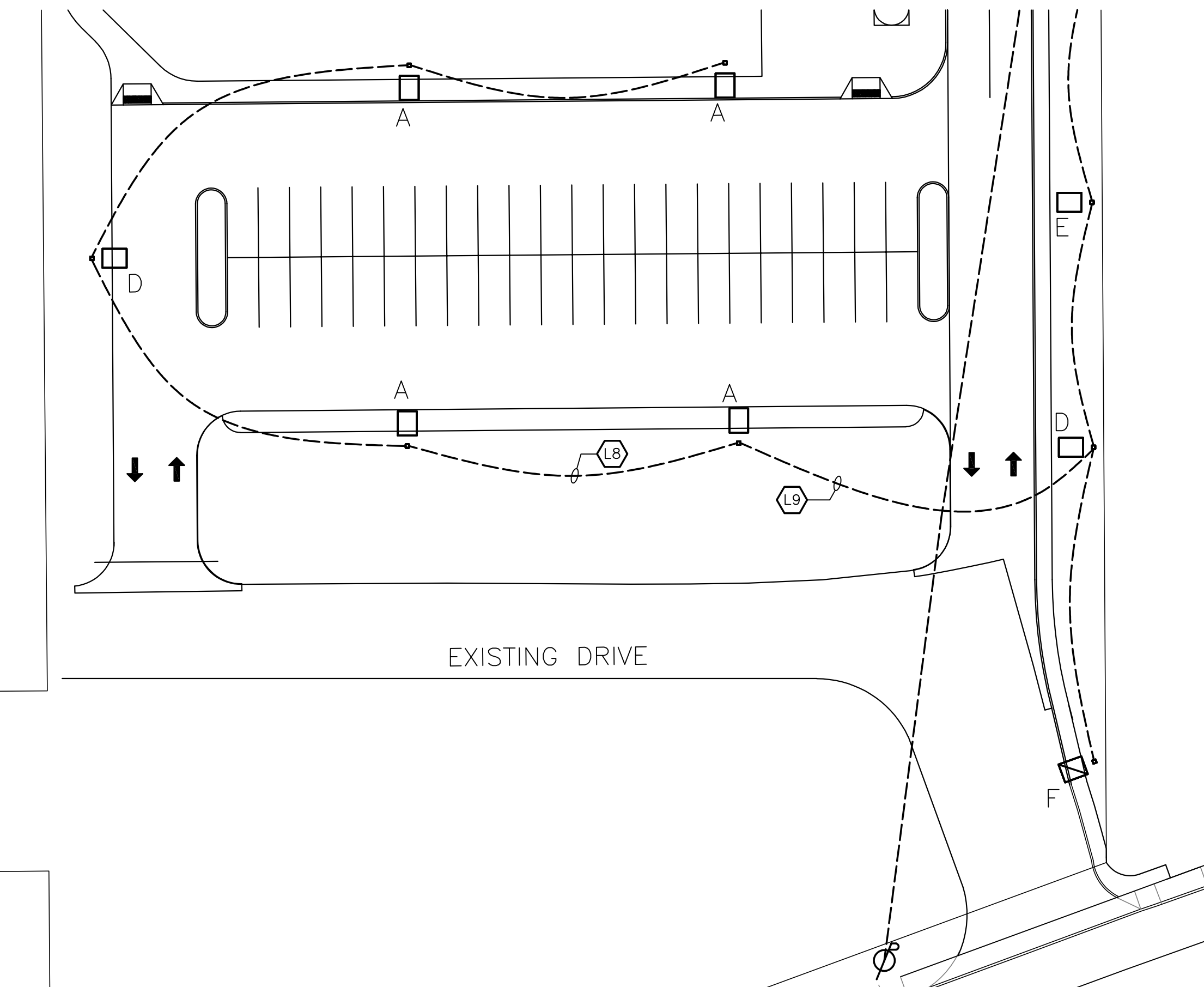
**GENERAL NOTES:**

- COORDINATE ALL UNDERGROUND OBSTRUCTIONS PRIOR TO CONSTRUCTION. PROVIDE A COMPLETE AND ACCURATE RECORD OF EXISTING PUBLIC AND PRIVATE UTILITY LOCATE SERVICES AND COORDINATE WITH OWNER. AVOID ALL UNDERGROUND OBSTRUCTIONS WHETHER IDENTIFIED OR NOT IDENTIFIED PRIOR TO CONSTRUCTION.
- B. THE TERM "PROVIDE" INDICATES CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE AND OPERABLE SYSTEM.
- C. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODES INCLUDING, BUT NOT LIMITED TO NFPA 70, NATIONAL ELECTRICAL CODE, NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODE, ETC.
- D. CONTRACTS PROVIDING THE APPLICABLE CODES, STANDARDS, AND THE PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO CONSTRUCTION.
- E. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
- F. IN THE EVENT OF CONFLICTS BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
- G. EXISTING WORK SHALL BE IN ACCORDANCE WITH ACCEPTANCE OF THE EXISTING CONDITIONS ASSOCIATED WITH THE WORK IN QUESTION.
- H. ALL EXISTING AND NEW UTILITIES AND VERIFIED UTILITY REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION. CONFLICTS BETWEEN UTILITY REQUIREMENTS AND THE PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE A WRITTEN NOTIFICATION WITH THE UTILITY COMPANY TO REVIEW REQUIREMENTS, INCOMING SERVICE CONDUITS AND SUBSTRUCTURES SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS.
- I. THESE DRAWINGS AND SPECIFICATIONS DO NOT CONSTITUTE A METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND CONSTRUCTION PRACTICES.
- J. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, AND CONDUIT. THE CONTRACTOR SHALL DETERMINE THE ARRANGEMENT OF PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. ITEMS NOT INDICATED ON DRAWINGS ARE ASSUMED TO BE INSTALLED TO THE WORK DESCRIBED SHALL BE FURNISHED AND INSTALLED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- K. WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S VENDORS, SUBSISTERS, AND OTHERS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN ADJUSTMENT TO VISIT THE SITE PRIOR TO BIDDING.
- L. IN LIMITED GROUND, CONDUCTOR SIZED PER NEC SHALL BE PROVIDED WITH EACH FEEDER AND BRANCH CIRCUIT.
- M. PROVIDE A DEDICATED NEUTRAL FOR EACH LINE TO NEUTRAL CIRCUIT. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON PLANS.
- N. MINIMUM WIRE SIZE IS #10 AWG. SEE SPECIFICATIONS FOR MINIMUM CONDUIT SIZE.
- O. EXISTING PANELED PANELS SHALL NOT BE LIMITED TO LIGHTING CONTROL PANELS, POWER DISTRIBUTION WILL HAVE A MAX DEVICE HEIGHT OF 72" AFF.
- P. PROVIDE GROUNDING. TYPE EXPANSION FITTINGS OR OTHERS APPROVED BY THE ARCHITECT ALLOW FOR EXPANSION, CONTRACTION, AND DEFLECTION.

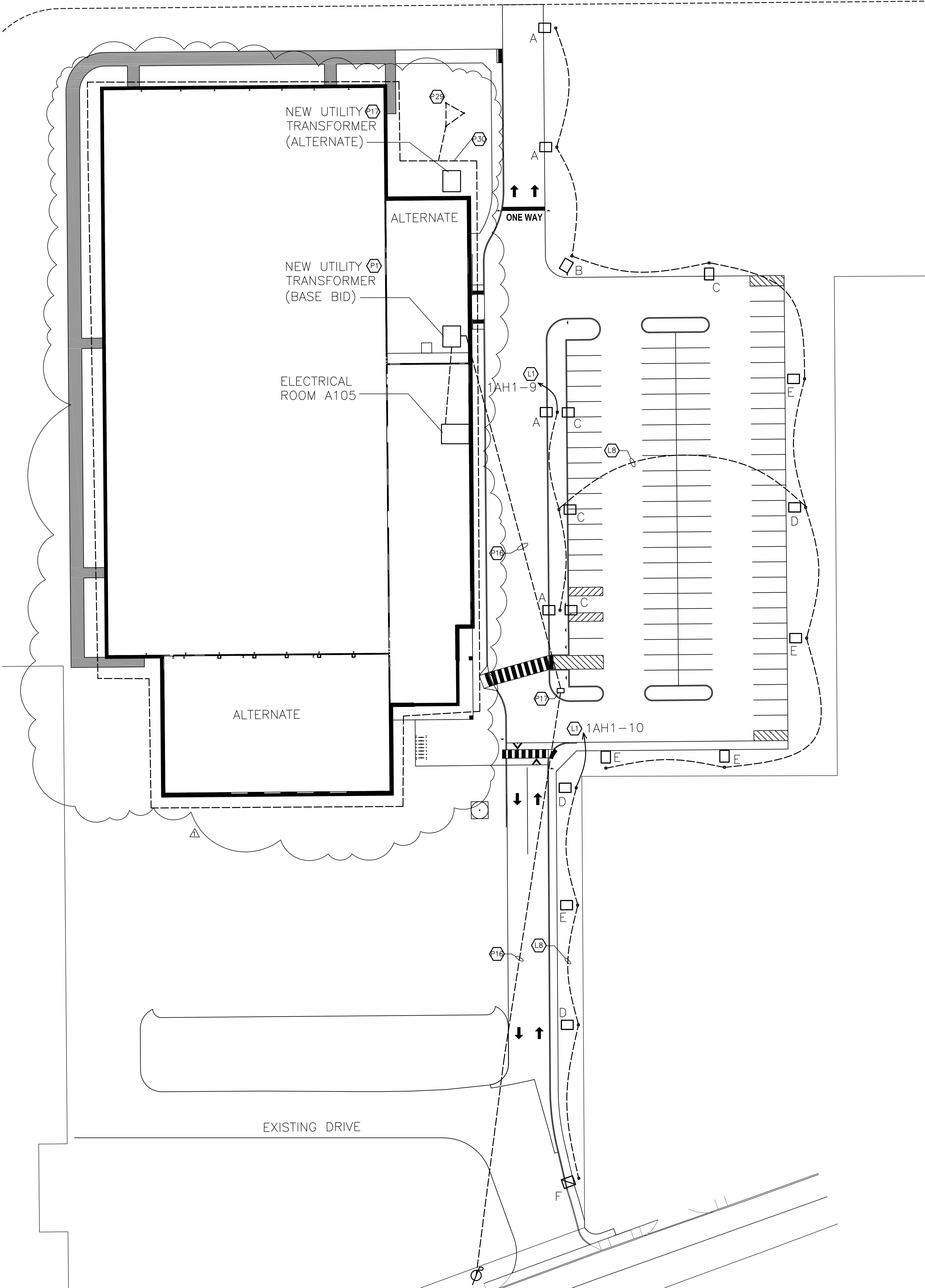


**NOTE:**  
PROVIDE 5/8" x 8'-0" GROUND ROD AT EACH POLE (TOP AT 2'-0" BELOW GRADE) AND CONNECT TO POLE WITH 1#6 ANCHOR BOLT AND 1/2" PVC CONDUIT.  
TACK WELD ALL ANCHOR BOLT NUTS IN PLACE WHEN POLES ARE SET AND PLUMB. REPAIR FINISH WITH GALCON PAINT.

**1 LIGHTING POLE FOUNDATION DETAIL (16'-6" TO 30'-0" LONG)**  
NO SCALE



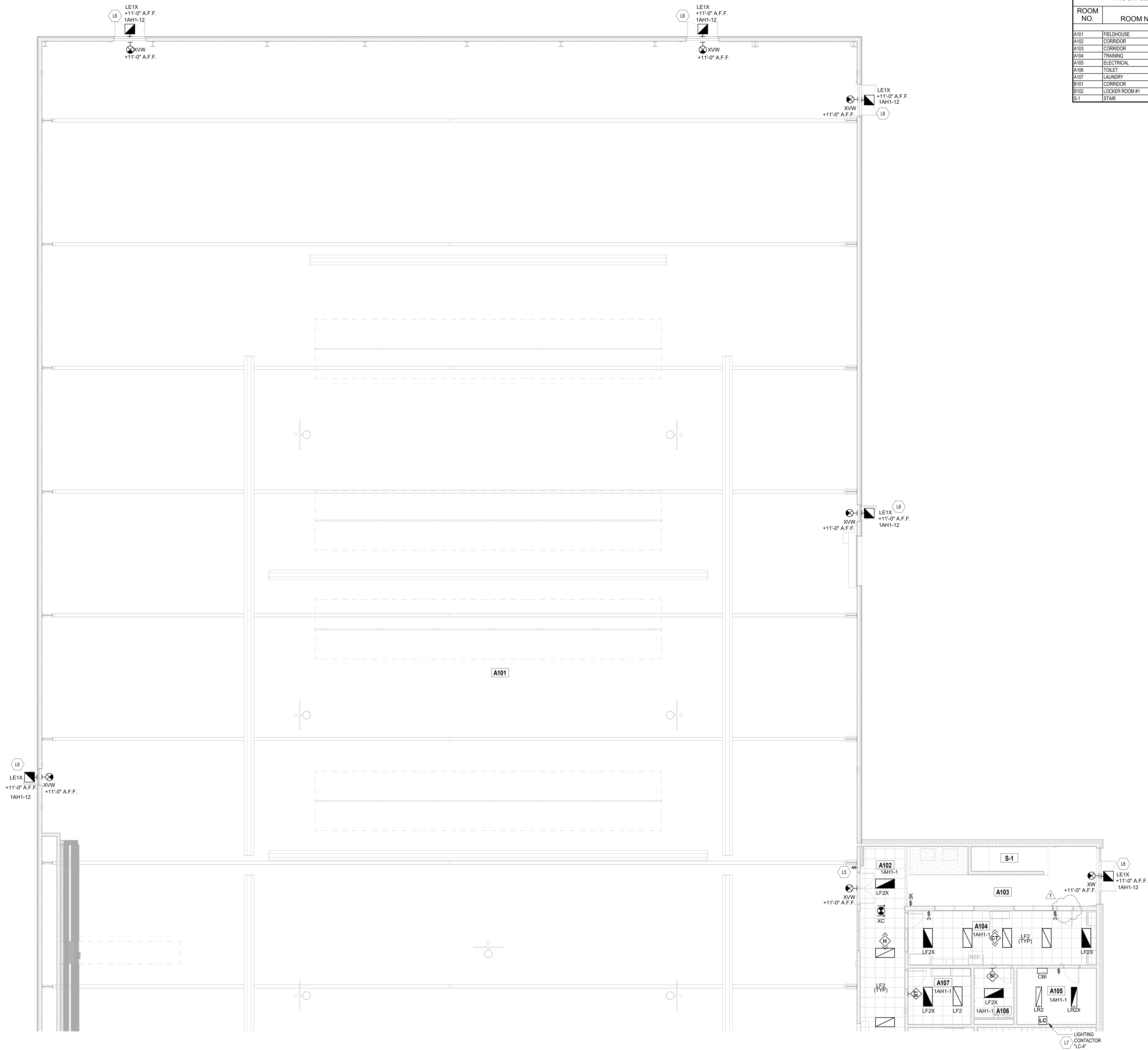
## SOUTH PARKING SITE PLAN ALTERNATE

$$1'' = 30'-0''$$


# ELECTRICAL SITE PLAN

$$1'' = 30'-0''$$

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FIRST FLOOR LIGHTING PLAN - UNIT A

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	286 SF
A104	TRAINING	416 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1163 SF
B102	LOCKER ROOM #1	389 SF
S-1	STAIR	81 SF

- LIGHTING PLAN GENERAL NOTES**
- GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
  - FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
  - RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "71E-501".
  - WHERE TWO SWITCHES ARE SHOWN ON PLAN, CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
  - LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP" IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGHOUT SAME ROOM UNLESS OTHERWISE INDICATED.
  - PROVIDE NO. 10 AWG. MINIMUM CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

- LIGHTING PLAN NOTES**
- (ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)
- L5 LOCATION OF FIELDHOUSE LIGHTING LEVEL WALL SWITCH.
  - L6 WIRE EXTERIOR LIGHT FIXTURE TO CIRCUIT IN PANEL 1AH1 VIA LIGHTING CONTACTOR LC-4 LOCATED ADJACENT TO PANEL. VERIFY CONDUIT AND WIRE SIZE PER VOLTAGE DROP REQUIREMENTS.
  - L7 INTEGRATE 4-POLE LIGHTING CONTACTOR LC-4 INTO BUILDING AUTOMATION SYSTEM.

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## PENN HIGH SCHOOL FIELDHOUSE

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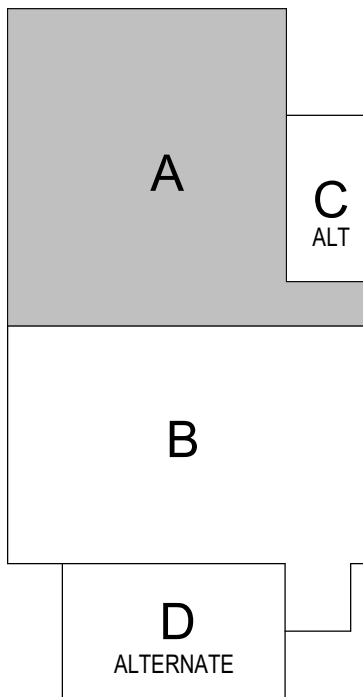
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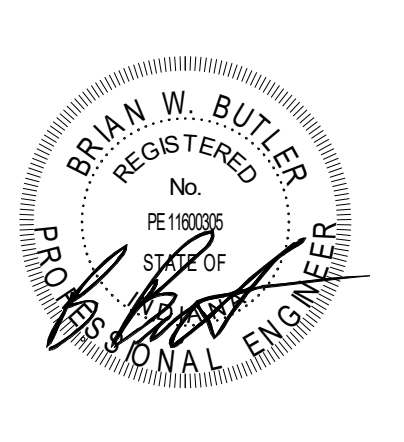
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KEY PLAN

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PROJECT NUMBER: 222130.00		
PROJECT ISSUE DATE: 01.10.2024		
REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01.26.2024

**VERIFICATION NOTE**  
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.  
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

FIRST FLOOR LIGHTING PLAN - UNIT A

# EL11A

**PENN HIGH  
SCHOOL  
FIELDHOUSE**

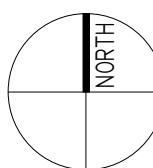
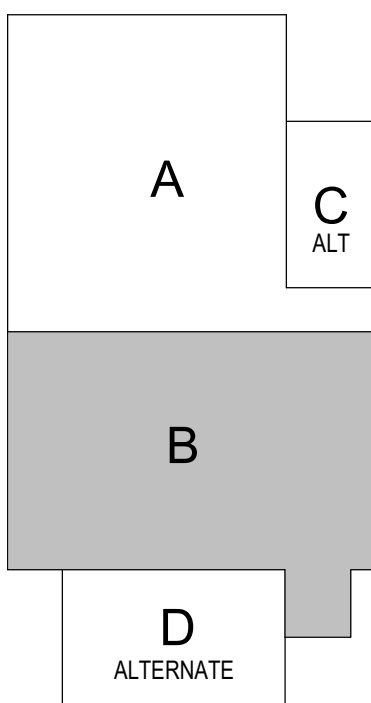
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**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**

**ARCHITECT**

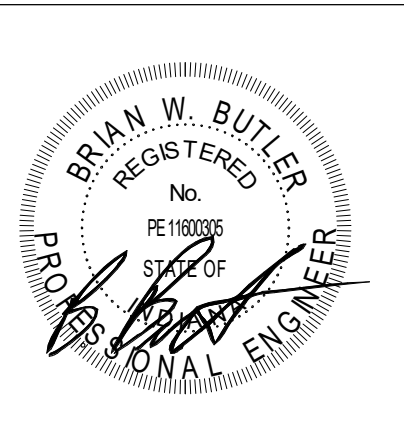
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## KEY PLAN

## 100% Construction Documents:



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PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 01.10.202

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**FIRST FLOOR LIGHTING PLAN - UNIT  
B**

# EL11B

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54239 SF
A102	CORRIDOR	328 SF
B101	CORRIDOR	1163 SF
B102	LOCKER ROOM #1	399 SF
B103	SHOWER	399 SF
B104	DRESSING ROOM #1	261 SF
B105	TOILET	74 SF
B106	TOILET	74 SF
B107	DRESSING ROOM #2	270 SF
B108	SHOWER	184 SF
B109	LOCKER ROOM #2	401 SF
B110	TOILET	63 SF
B111	TOILET	63 SF
B112	GIRLS RESTROOM	388 SF
B113	FINE RISER	370 SF
B114	BOYS RESTROOM	370 SF
B115	STORAGE	127 SF
B116	CUSTOM	68 SF
B117	CONCESSION	263 SF
B118	OFFICE	341 SF
B119	LOBBY	1039 SF
B120	VESTIBULE	369 SF
B121	SRO OFFICE	117 SF
B122	STAIR	115 SF

## LIGHTING PLAN GENERAL NOTES

- [illegible]

### LIGHTING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

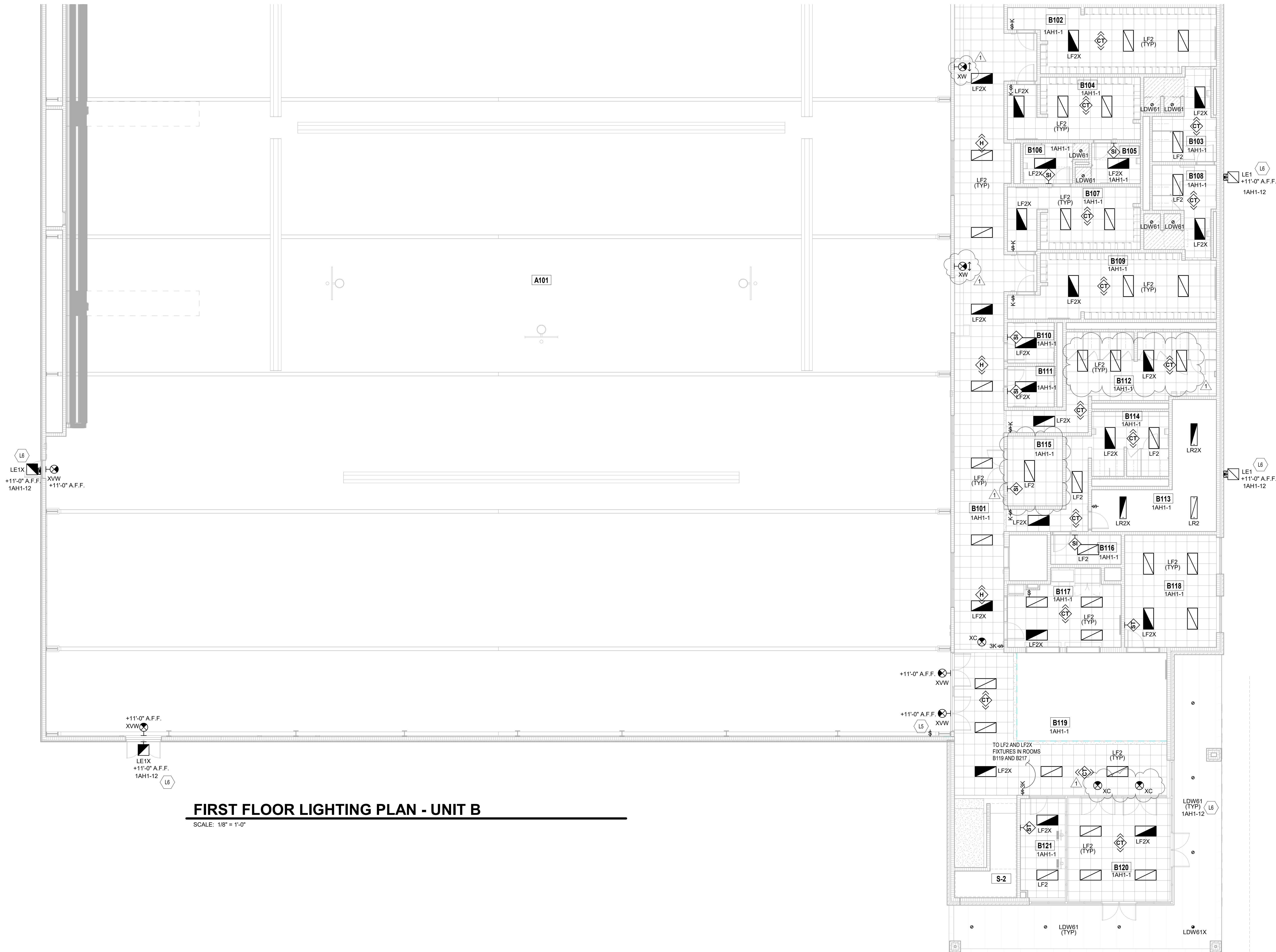
- L5 LOCATION OF FIELDHOUSE LIGHTING LEVEL WALL SWITCH.  
L6 WIRE EXTERIOR LIGHT FIXTURE TO CIRCUIT IN PANEL 1A1  
VIA LIGHTING CONTACTOR LC-4 LOCATED ADJACENT TO  
PANEL. VERIFY CONDUIT AND WIRE SIZE PER VOLTAGE DROP  
REQUIREMENTS.

1

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



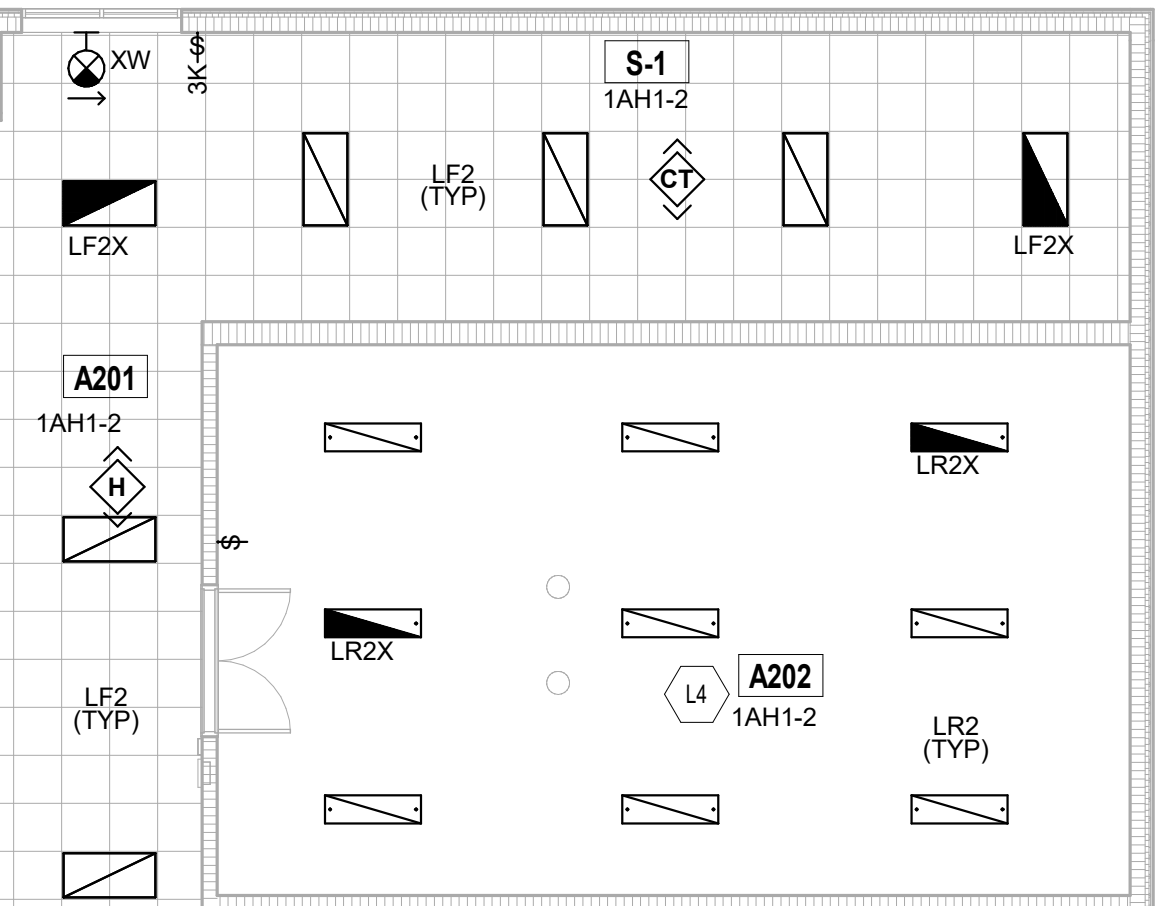
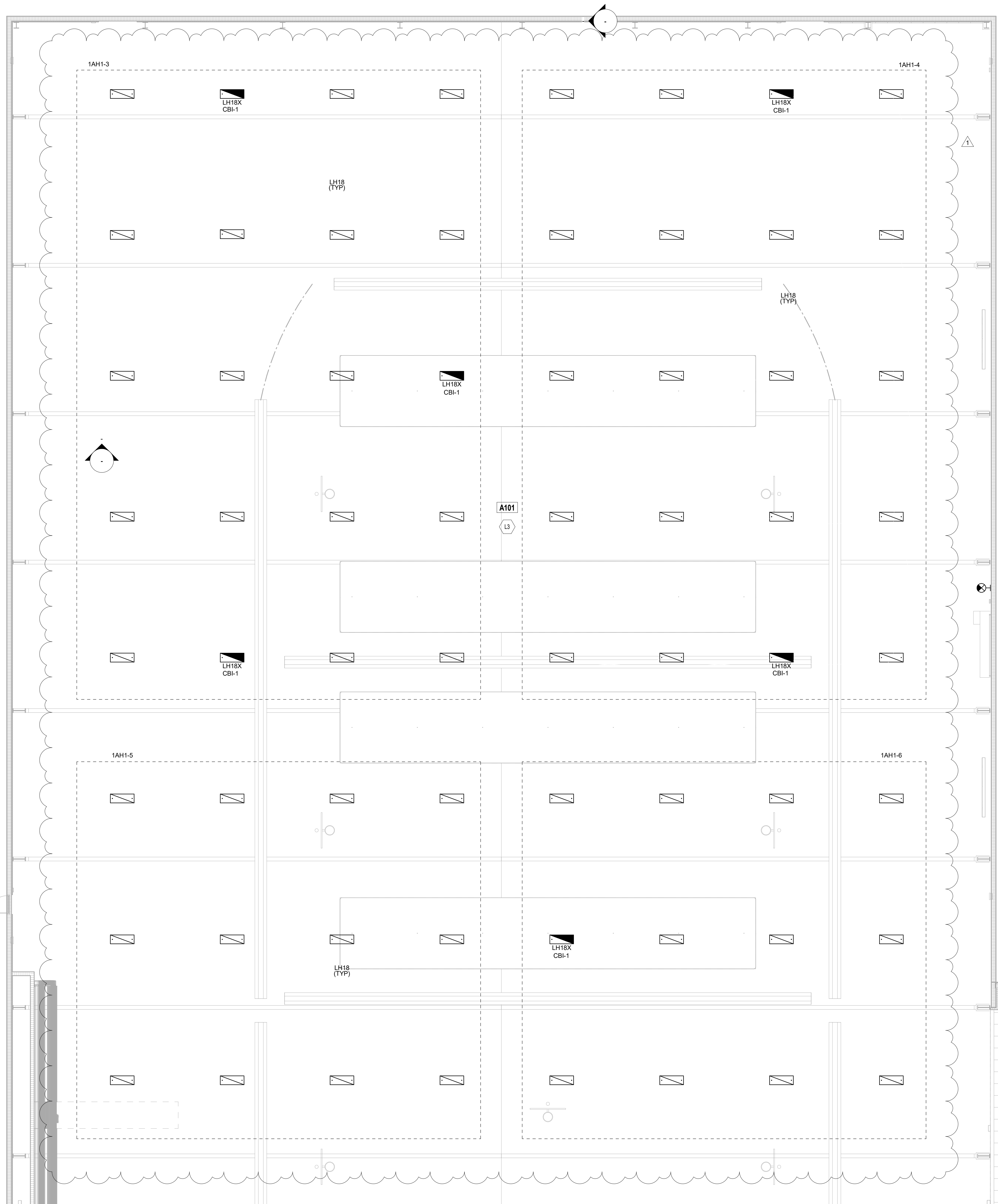
## FIRST FLOOR LIGHTING PLAN - UNIT B

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

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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SECOND FLOOR LIGHTING PLAN - UNIT A

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	5429 SF
A102	CORRIDOR	328 SF
A201	CORRIDOR	341 SF
A202	MECHANICAL	673 SF
S-1	CORRIDOR	1444 SF
S-1	STAIR	81 SF

LIGHTING PLAN GENERAL NOTES

- GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
- FINAL CONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT, MC CABLE OR MANUFACTURED WIRING SYSTEM.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
- RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL "71E-501".
- WHERE TWO SWITCHES ARE SHOWN ON PLAN, CONNECTED TO THE SAME LIGHT FIXTURE, CONTRACTOR SHALL WIRE TO PROVIDE MULTI-LEVEL LIGHTING. ONE SWITCH SHALL ENERGIZE THE INBOARD LAMPS AND ONE SWITCH SHALL ENERGIZE THE OUTBOARD LAMPS. ALL ROOMS SHALL BE WIRED THE SAME.
- LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP" IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
- PROVIDE NO. 10 AWG. MINIMUM CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

LIGHTING PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- L3 MOUNT LIGHT FIXTURES EVEN WITH THE BOTTOM CHORD OF STRUCTURE.
- L4 MOUNT LIGHT FIXTURES IN THIS ROOM TO MISS MECHANICAL EQUIPMENT.



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PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway  
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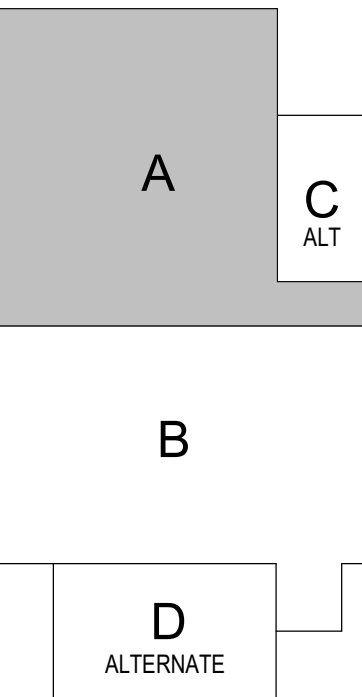
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ARCHITECT

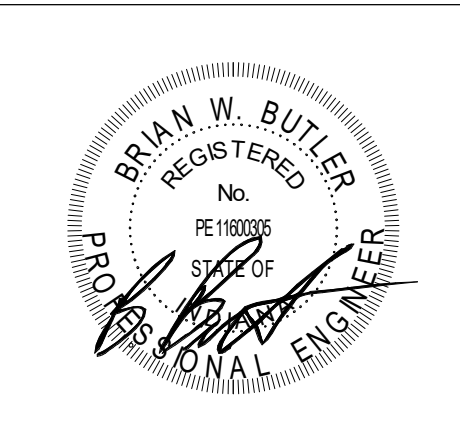
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KEY PLAN

100% Construction Documents



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1	Addendum #1	01.26.2024

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SECOND FLOOR LIGHTING PLAN -  
UNIT A

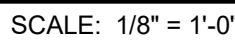
EL12A



**VERIFICATION NOTE**

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



**PENN HIGH  
SCHOOL  
FIELDHOUSE**

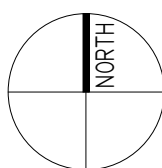
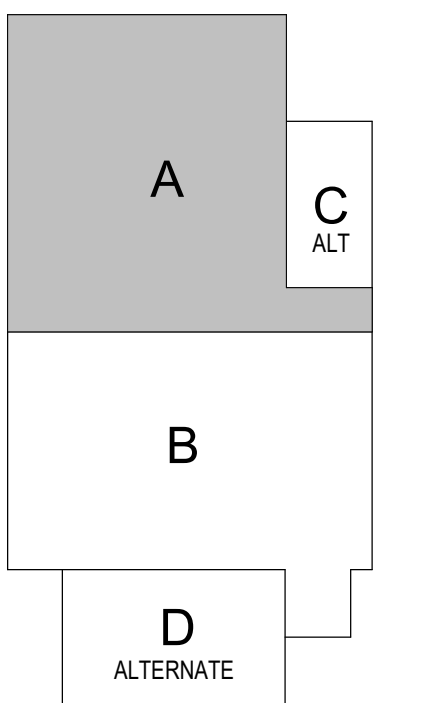
12641 McKinley Highway  
Mishawaka, IN 46545

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**

ARCHITECT

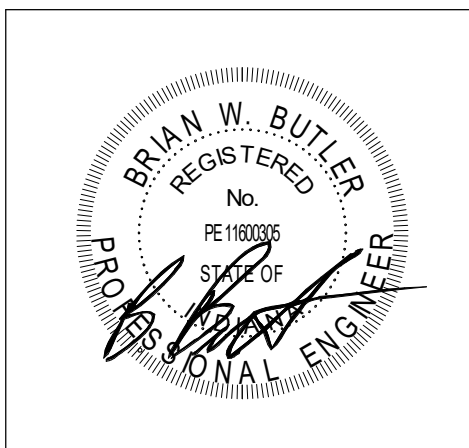
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## KEY PLAN

## 100% Construction Documents:



DRAWN BY: ISD

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 01.10.202

[illegible]

**FIRST FLOOR POWER PLAN - UNIT A**

# EP11A

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54239 SF
A102	CORRIDOR	328 SF
A103	CORRIDOR	296 SF
A104	TRAINING	416 SF
A105	ELECTRICAL	182 SF
A106	TOILET	81 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1163 SF
B102	LOCKER ROOM #1	399 SF
S-1	STAIR	81 SF

### POWER PLAN GENERAL NOTES

- PROVIDE REvised TYPE PANELBOARD DIRECTIONS FOR EACH PANELBOARD ADDOR MODIFIED DURING THE PROJECT. FIELD VERIFY ALL WORK. OBTAIN INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE ALL WORK IS ACCORDING TO THE PROJECT REQUIREMENTS. BREAKERS SHALL BE IN THE OFF POSITION.
- VOLTAGE PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE THE PROJECTOR. PROJECTOR SHALL BE MOUNTED TO THE UNO CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS. CONTRACTOR SHALL OBTAIN OWNER'S APPROVAL OF ANY WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.
- CONTRACTOR SHALL OBTAIN OWNER'S APPROVAL OF ANY CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPE I LABELMATED LABEL.
5. PROVIDE PROTECTIVE THERMOPLASTIC COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. PROVIDE ALL NEUTRAL CONDUCTOR CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED 3% (N.E.C. 90.5).
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES.
8. REFER TO "CONTROL SCHEMATIC" MECHANICAL DRAWINGS FOR LOCATION OF CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, SHALL BE INSTALLED IN A PROPER MANNER TO PREVENT SHORT CIRCUITING, GROUNDING CONDUCTOR, MAINTAIN MECHANICAL-ELECTRICAL BOND OF METALLIC RACEWAY SYSTEM.

## POWER PLAN NOTES

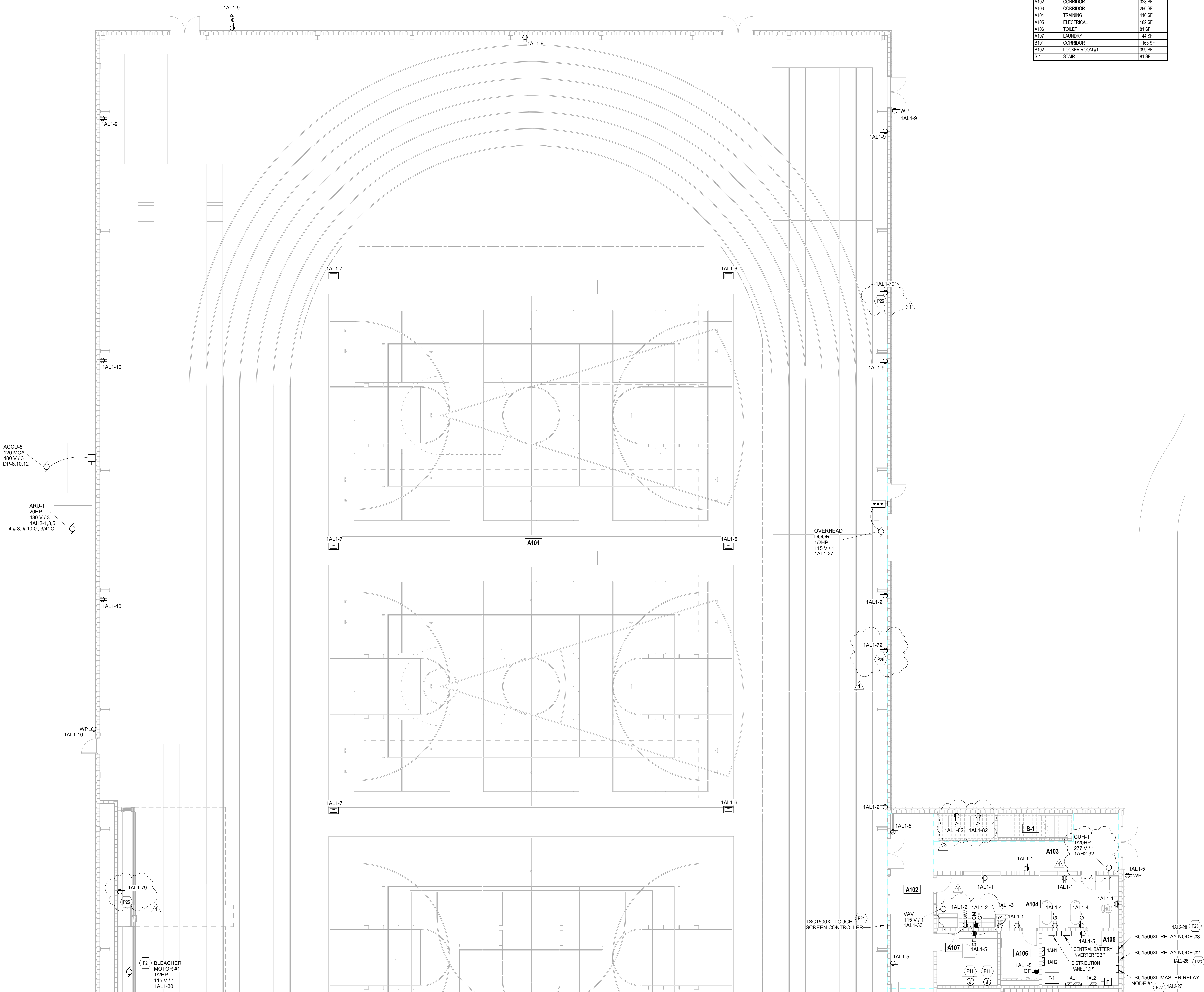
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- P2 UNDER BASE BOARD, PROVIDE #2 @ 10" 34" CONDUIT STUBBED UP  
TO EXTERIOR WALL FOR FUTURE INSTALLATION OF  
ELECTRICITY TO REACHER. PROVIDE #2 @ 10" 34" CONDUIT  
ALTERNATE BID, PROVIDE #2 @ 10" 16" 34" CONDUIT  
TO BLEACHER MOTOR AT AND TO THE LOCATION.
- P3 PROVIDE WIRE AND CONDUIT FROM PANELBOARD 14H1 OR  
11A TO THE LOCATION. REQUIREMENT: 120V 15A  
WASHER/DRYER. PROVIDE APPROPRIATE CIRCUIT BREAKER  
PER IN-PANELBOARD FOR ELECTRICAL CHARACTERISTICS OF  
EXISTING WASHER/DRYER.
- P4 PROVIDE TSC1500XL MASTER RELAY NODE AT THIS  
LOCATION. CONNECT TO INDICATED CIRCUIT. VERIFY  
INSTALLATION REQUIREMENTS WITH GYM EQUIPMENT  
CONTROLS MANUFACTURER.
- P5 PROVIDE TSC1500XL RELAY NODE AT THIS LOCATION.  
CONNECT TO MASTER NODE AT INDICATED CIRCUIT. VERIFY  
INSTALLATION REQUIREMENTS WITH GYM EQUIPMENT CONTROLS  
MANUFACTURER.
- P6 PROVIDE TSC1500XL TOUCH SCREEN AT THIS LOCATION.  
CONNECT TO MASTER NODE WITH #2 @ 12" @ 34"  
CONDUIT. VERIFY INSTALLATION REQUIREMENTS WITH GYM  
EQUIPMENT CONTROLS MANUFACTURER.
- P6B RECEPTACLE FOR THE SLOVEMASTER. REFER TO THE  
ARCHITECTURE INTERIOR ELEVATIONS FOR EXACT  
LOCATION, HEIGHT AND LOCATION.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



## FIRST FLOOR POWER PLAN - UNIT A

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

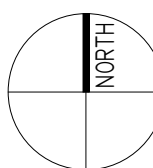
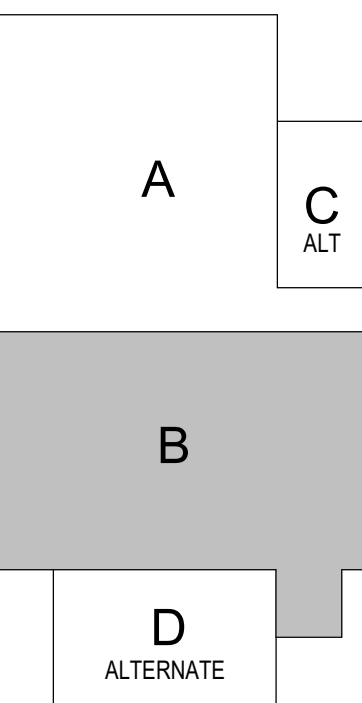
**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**



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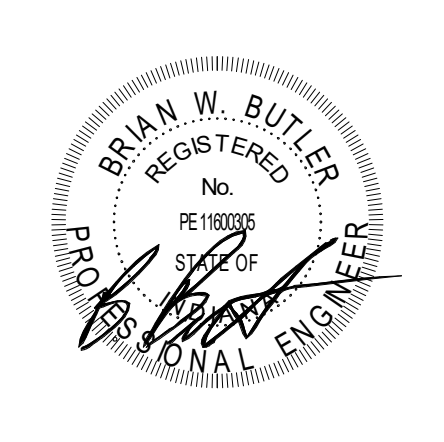
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## KEY PLAN

### 100% Construction Documents:



PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 01.10.202

[illegible]

**FIRST FLOOR POWER PLAN - UNIT B**

# EP11B

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	5429 SF
A102	CORRIDOR	328 SF
A106	ELECTRICAL	182 SF
A107	LAUNDRY	144 SF
B101	CORRIDOR	1193 SF
B102	LOCKER ROOM #1	399 SF
B103	SHOWER	184 SF
B104	DRESSING ROOM #1	261 SF
B105	TOILET	74 SF
B106	TOILET	75 SF
B107	DRESSING ROOM #2	270 SF
B108	SHOWER	184 SF
B109	LOCKER ROOM #2	401 SF
B110	TOILET	63 SF
B111	TOILET	63 SF
B112	GIRLS RESTROOM	386 SF
B113	BOYS RESTROOM	386 SF
B114	BOYS RESTROOM	375 SF
B115	STORAGE	127 SF
B116	CUSTODIAN	66 SF
B117	CONCESSION	293 SF
B118	OFFICE	341 SF
B119	LOBBY	1039 SF
B120	VESTIBULE	367 SF
B121	SNOW OFFICE	139 SF
B2	STAR	116 SF

PROVIDE REvised TYPE PANELBOARD DIRECTIONS FOR EACH PANELBOARD ADDOR MODIFIED DURING THE CONSTRUCTION FIELD VISIT. PROVIDE CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE THE PANELBOARD IS ACCEPTABLE TO THE USER. NO BREAKERS SHALL BE IN THE OFF POSITION.

VOLTA GE PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE THE PANELBOARD. PROJECTOR SHALL BE 10 FEET FROM THE CONDUCTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL OBTAIN THE USER'S AND THE WORK CONSTITUTE'S ACCEPTANCE OF CONDITIONS. THE CONTRACTOR SHALL OBTAIN THE USER'S AND THE WORK CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPE I LABEL MOUNTED.

5. PROVIDE PROTECTIVE THERMOPLASTIC COVER PLATE FOR ANY GFCI PROTECTED DEVICE.

6. PROVIDE ALL NEUTRAL CONDUCTOR CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED 3% (N.E.C. 90.5).

7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES.

8. REFER TO "CONTROL SCHEMATIC" MECHANICAL DRAWINGS FOR LOCATION OF CONTROL WIRING AND CONTROL CONNECTIONS.

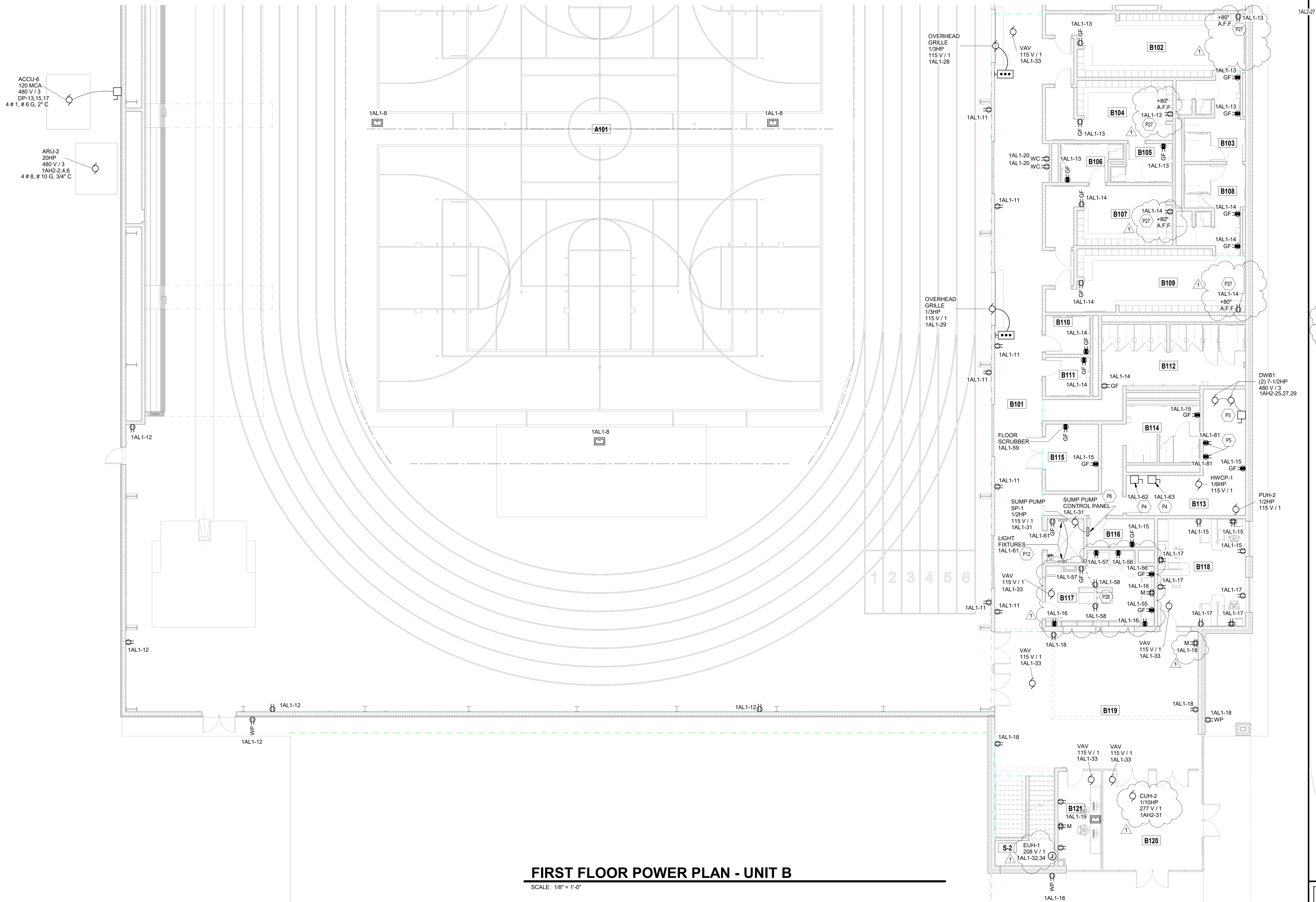
9. ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL GROUNDING CODE. MAINTAIN MECHANICAL/ELECTRICAL BOND OF METALLIC RACEWAY SYSTEM.

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

P3	PROVIDE SERVICE DISCONNECT FOR DUPLEX BOOSTER PUMP SET #2073, 30A NAME 1 ENCLOSURE. COORDINATE FINAL LOCATION OF DISCONNECT WITH OTHER DISCONNECTS TO ENSURE NO INTERFERENCE.
P4	PROVIDE WATER HEATER ENCLOSURE, 120V/1, 15A NAME 1 ENCLOSURE. COORDINATE FINAL LOCATION OF DISCONNECT WITH OTHER DISCONNECTS TO ENSURE NO INTERFERENCE.
P5	PROVIDE 5-15R RECEPTACLE AT THIS LOCATION FOR WATER SOFTENER AND CONNECT TO INDICATED CIRCUIT. COORDINATE FINAL LOCATIONS WITH PLUMBING CONTRACTOR.
P6	PROVIDE 120V CONNECTION TO ELEVATOR SUMP PUMP CONTROL PANEL AND CONNECT TO INDICATED CIRCUIT. COORDINATE LOCATIONS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
P12	COORDINATE LOCATION OF LIGHT SWITCH AND LIGHT FIXTURES WITH PLUMBING CONTRACTOR. PROVIDE PLASTER PATCH TO ROUGH-IN. TAP THE SOURCE SIDE OF THE 4" PIPING FOR THE 1/2" PIPING. PROVIDE 1/2" PIPING TO THIS LOCATION TO BE A 5/8" WATTED, 120V, 4 FOOT LONG, WALL MOUNTED, RESISTANT WRAP AROUND FOR KENNEL BARRIER. PROVIDE WOOD BRACKET FOR KENNEL BARRIER. MANUFACTURER FAL SPFA SERIES, HENKELBROS SERIES, LUMINAREE LED LV PVT1 SERIES, EQUIPSE D4 LED LIGHTS.
P27	PROVIDE RECEPTACLE FOR AIR PURIFIER UNIT AT THIS LOCATION. COORDINATE EXACT LOCATION OF RECEPTACLE WITH PLUMBING, FLOORING, AND FINISHES CONTRACTOR.
P28	COORDINATE ROUGH-IN WITH KNEE WALL LOCATION.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

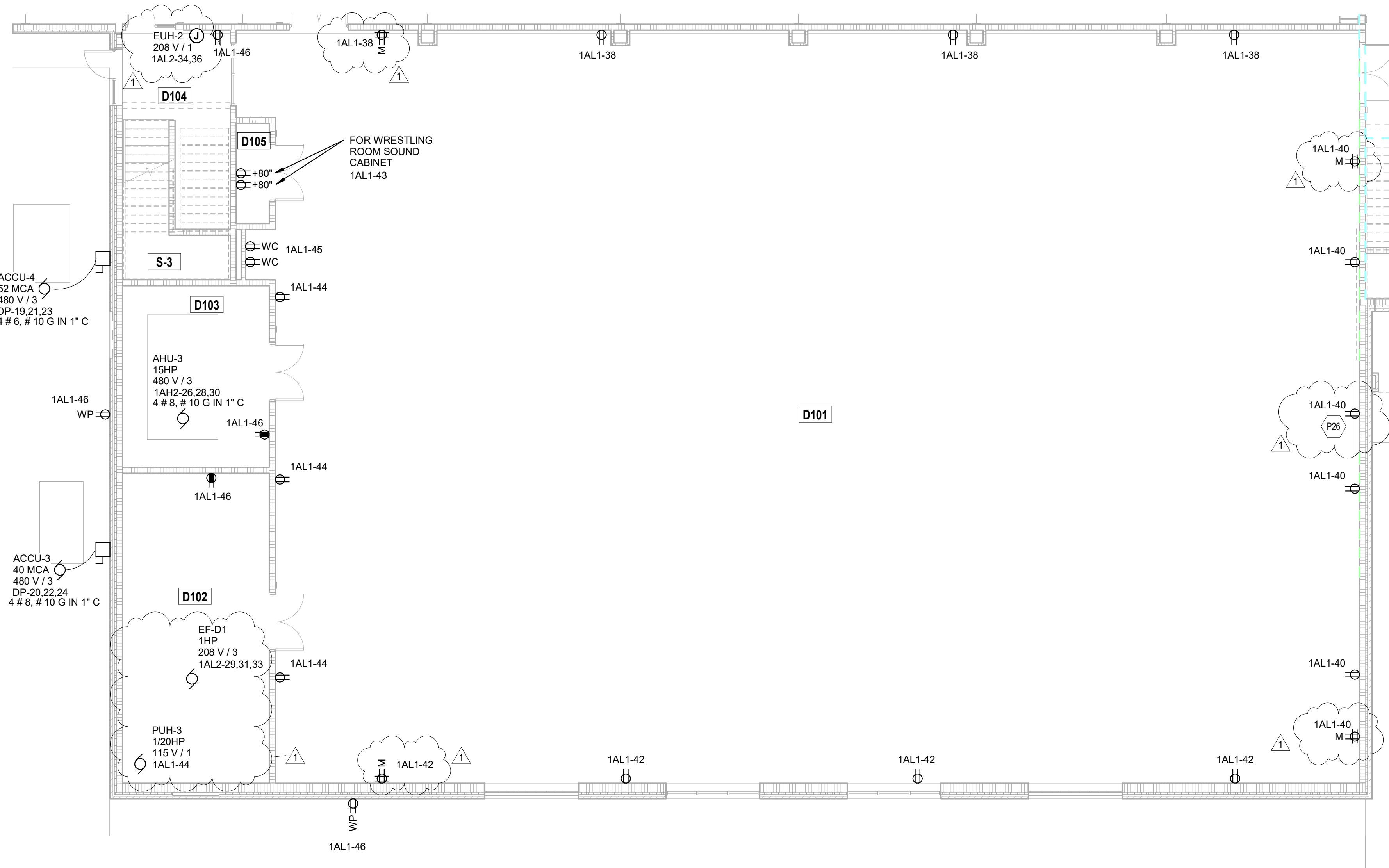
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



## FIRST FLOOR POWER PLAN - UNIT B

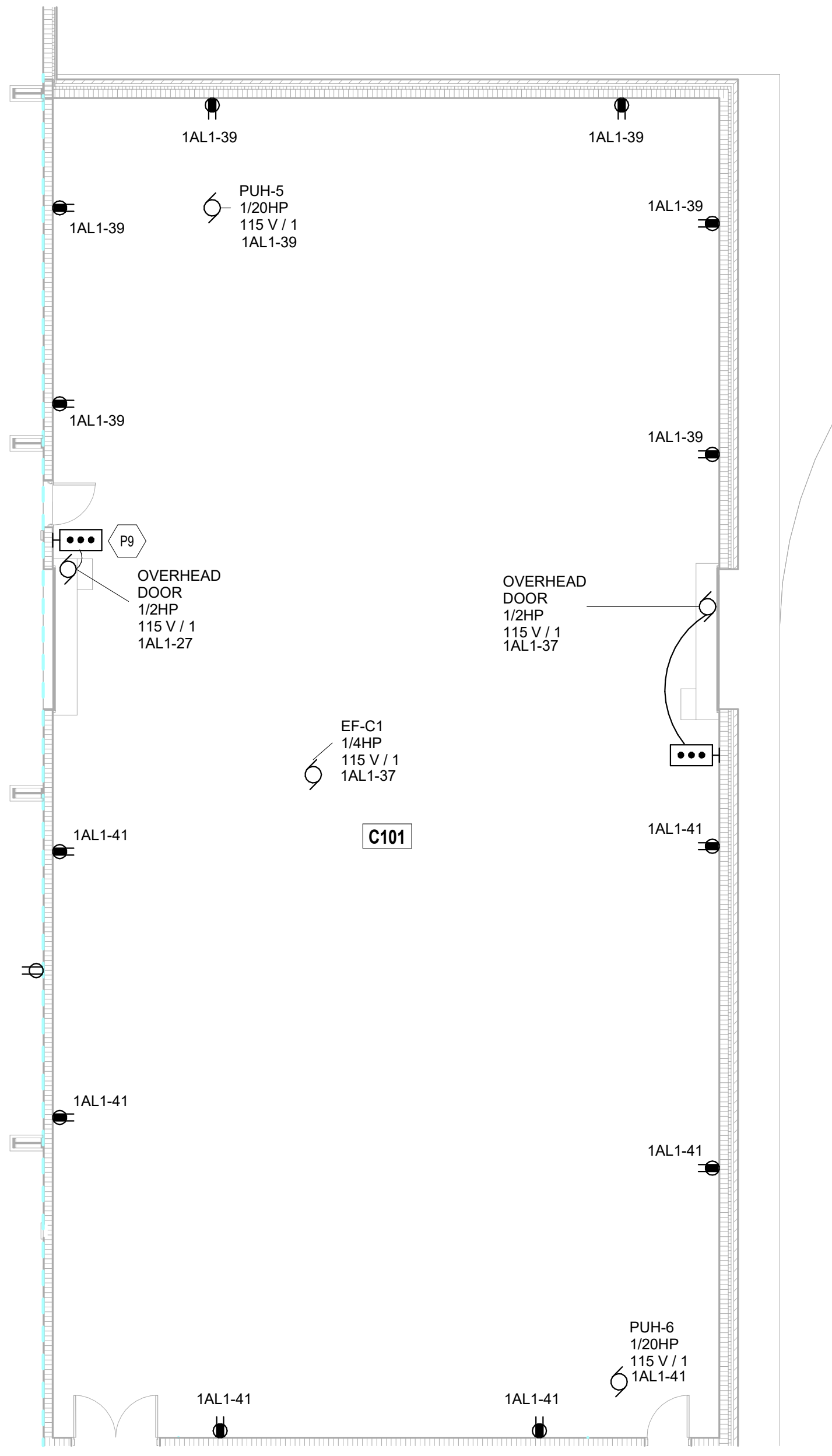
SCALE: 1/8" = 1'-0"

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FIRST FLOOR POWER PLAN ALTERNATE - UNIT D

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



FIRST FLOOR POWER PLAN ALTERNATE - UNIT C

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

ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	5429 SF
B119	LOBBY	1039 SF
S-2	STAIR	115 SF

POWER PLAN GENERAL NOTES

- PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
- VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 36" A.F.F. UNO. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
- LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
- PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
- CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
- REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
- REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
- ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

POWER PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- P9 UNDER ALTERNATE BID, PROVIDE THE PUSHBUTTON CONTROLLER FOR THE OVERHEAD DOOR ON THE UNIT C SIDE OF THE DOOR.
- P26 RECEPTACLE FOR THE SCOREBOARD. REFER TO THE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT MOUNTING HEIGHT AND LOCATION.

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PENN HIGH SCHOOL FIELDHOUSE

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Mishawaka, IN 46545

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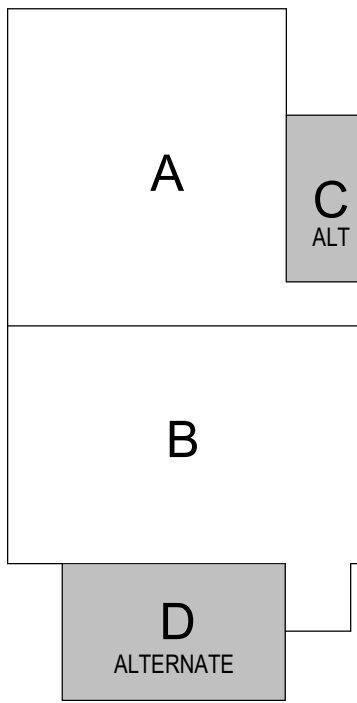
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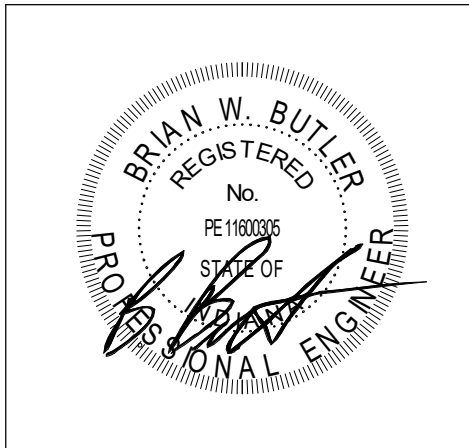
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KEY PLAN

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DRAWN BY: ISO

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 01.10.2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	01.26.2024

FIRST FLOOR POWER PLAN  
ALTERNATE- UNIT C AND D

EP11C

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

# EP12B

**PENN HIGH  
SCHOOL  
FIELDHOUSE**

12641 McKinley Highway  
Mishawaka, IN 46545

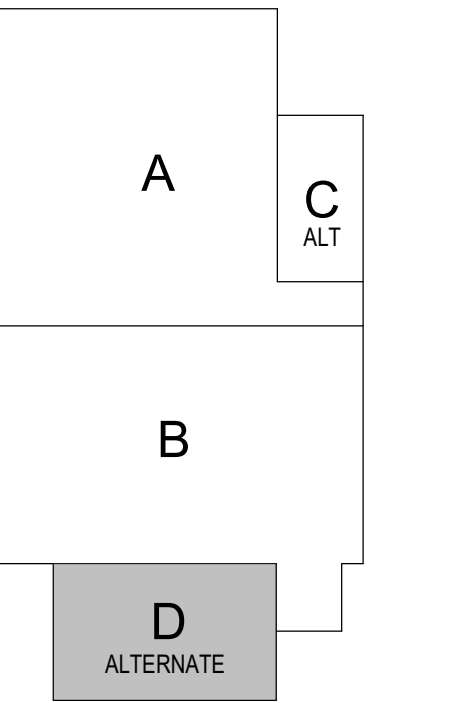
**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**



ARCHITECT

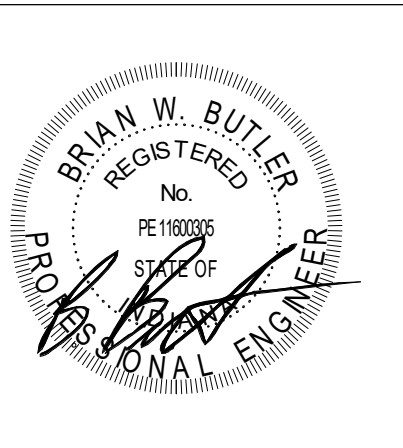
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## KEY PLAN

## 100% Construction Documents



DRAWN BY: ISD  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 01.10.2024

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## SECOND FLOOR POWER PLAN ALTERNATE - UNIT D

# EP12C

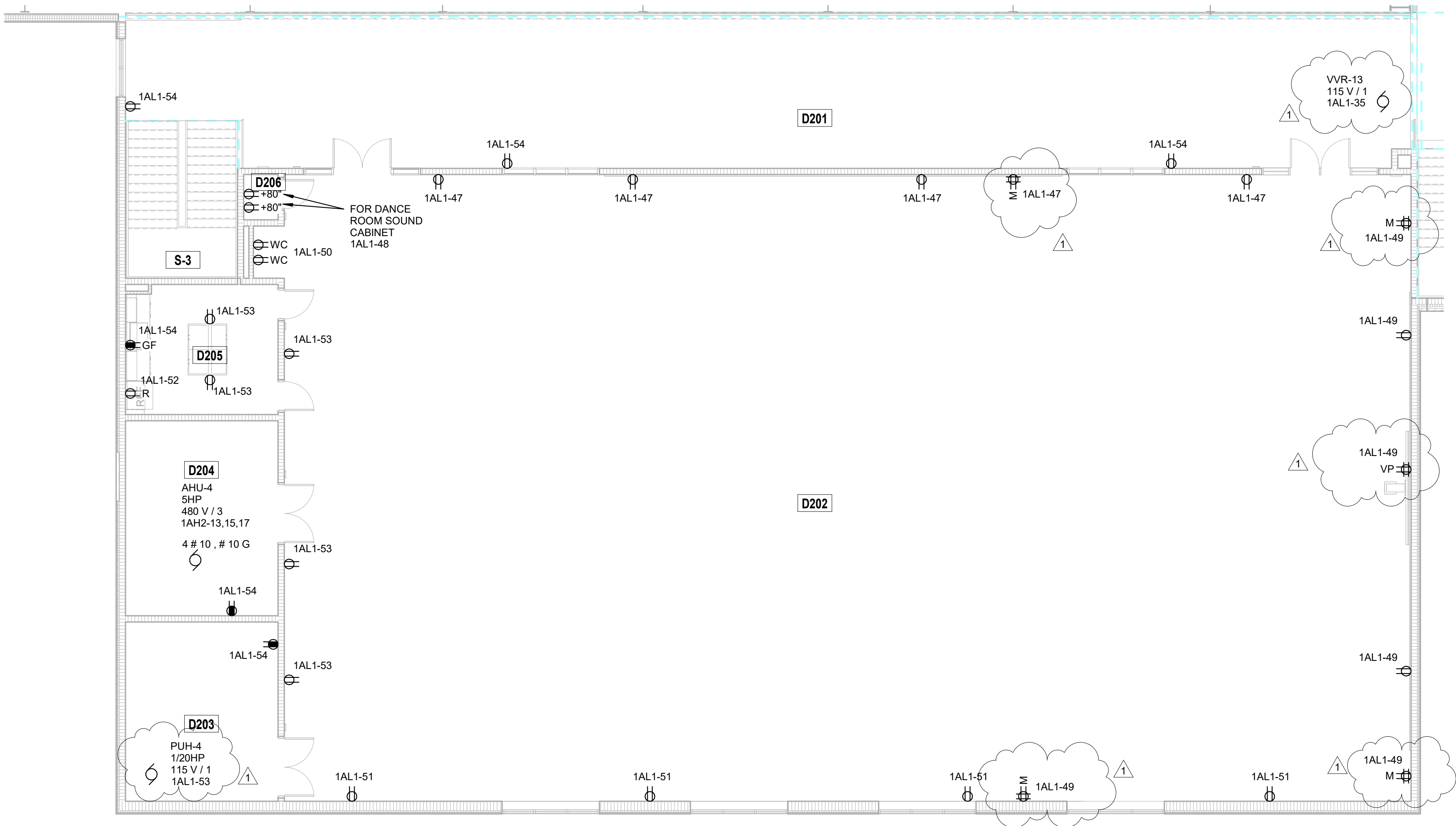
ROOM LEGEND		
ROOM NO.	ROOM NAME	AREA (SF)
A101	FIELDHOUSE	54239 SF
B201	CORRIDOR	1444 SF
B217	COMMONS	964 SF
S-2	STAIR	175 SF

## POWER PLAN GENERAL NOTES

- PROVIDE REINFORCED TYPE PANELBOARD DIRECTORIES FOR EACH PANELBOARD ABOVE AND MODIFIED DURING CONSTRUCTION. FIELD VERIFY ALL DIMENSIONS AND CIRCUMFERENCE WITH OWNER'S ASSISTANCE TO ENSURE ALL DIMENSIONS ARE ACCURATE. ALL DIMENSIONS OF BREAKERS SHALL BE IN THE OFF POSITION. UNDO PROJECTOR REPRODUCTION TO BE MOUNTED ABOVE EACH PANELBOARD. FIELD VERIFY ALL DIMENSIONS. UNDO CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS. FIELD VERIFY ALL DIMENSIONS AND CLEARANCES OF WORK CONSTITUTES. ACCEPTANCE OF CONDITIONS SHALL BE IN WRITING. CONTRACTOR SHALL VERIFY THAT THE CONTRACT ARCHITECT BEFORE PROCEEDING WITH WORK.
- LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
- PROTECT ALL ELECTRICAL WORK ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
- FIELD VERIFY ALL DIMENSIONS. CONTRACTOR CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED 3% IN 120 V. AND 5% IN 240 V.
- REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LABEL DISCONNECT SWITCHES.
- REFER TO "CONTROL SCHEMATICS" MECHANICAL PLANS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
- ALL DEVICES, EQUIPMENT, FIXTURES AND THE LIKE, SHALL BE IDENTIFIED AND A PROPORTIONAL CONTROL WIRING AND GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BOUNDS OF METALLIC RACEWAY

## POWER PLAN NOTES

ALL NOTES MAY NOT BE INDICATED ON THIS SHEET



## SECOND FLOOR POWER PLAN ALTERNATE - UNIT D

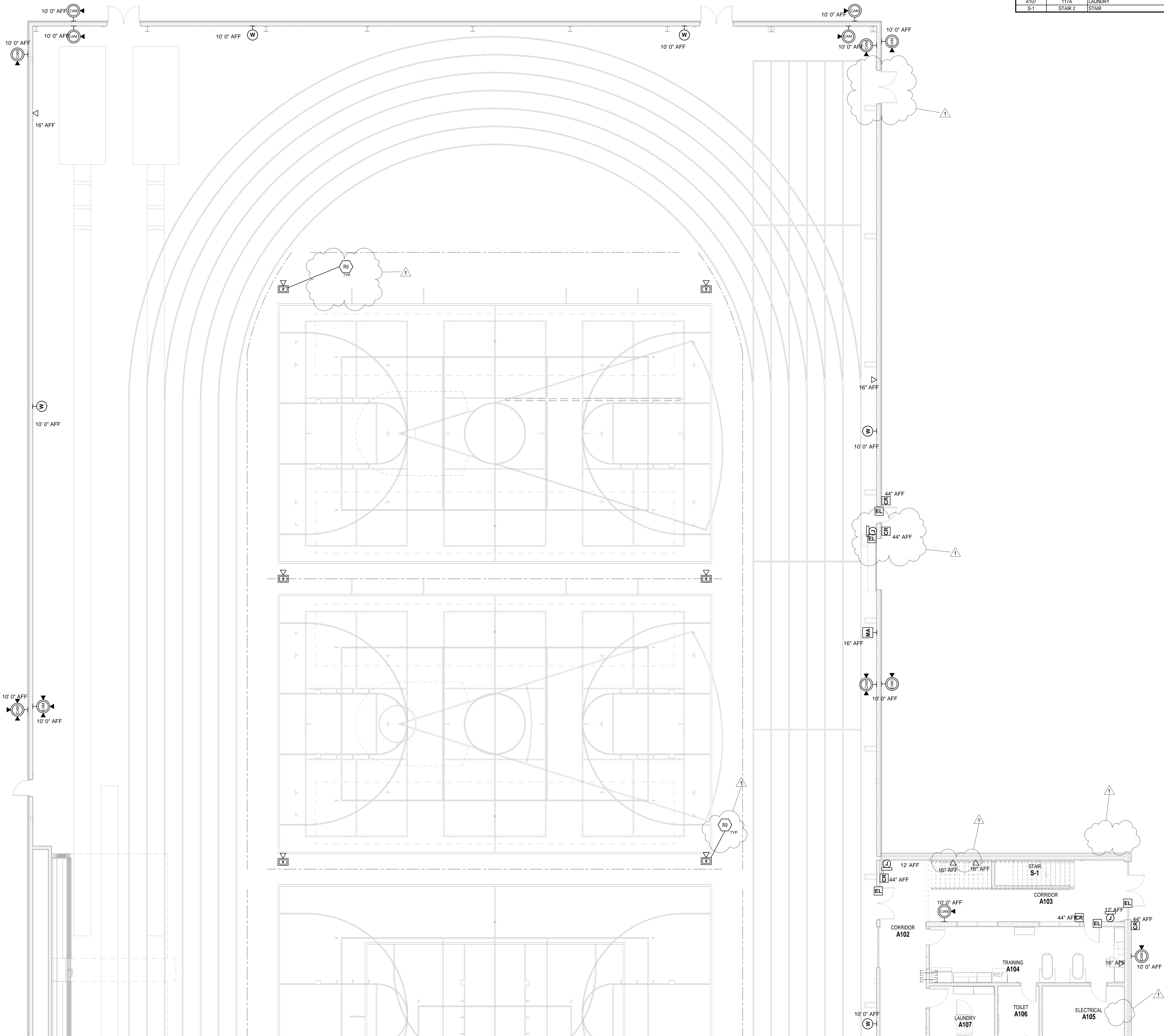
SCALE: 1/8" = 1'-0"

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	54239 SF
A102	-	CORRIDOR	328 SF
A103	-	CORRIDOR	286 SF
A104	117	TRAINING	416 SF
A105	117B	ELECTRICAL	182 SF
A106	116	TOILET	81 SF
A107	117A	LAUNDRY	143 SF
S-1	STAIR 2	STAIR	81 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

- A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- B. DIVISION 26 CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL DATA SLEEVES WITH PROPER BUSHINGS AS SHOWN ON THE E3 DRAWINGS AND ON ET001 DETAILS.
- C. COORDINATE THE INSTALLATION OF ALL SPEAKER LOCATION ROUGH-IN PLACEMENTS AND BACKBONE CONDUIT INSTALLATION WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.
- D. COORDINATE ALL CLOSET OR CABINET POWER NEEDS AND PLACEMENTS WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

# NOTE

R9 ALL FLOORBOXES IN FIELDHOUSE WILL HAVE ONE EMPTY CONDUIT TO EACH BOX FOR FUTURE DATA CABLING.

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PENN HIGH SCHOOL FIELDHOUSE

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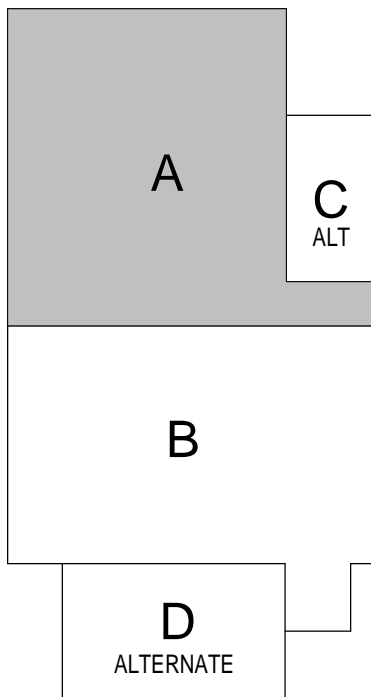
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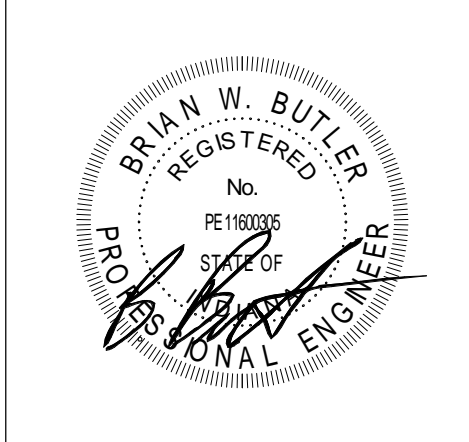
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KEY PLAN

CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS

DRAWN BY: CDT

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 1/13/2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1/26/2024

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

FIRST FLOOR TECHNOLOGY  
ROUGH-IN PLAN - UNIT A

ET11A



ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	54239 SF
A102	-	CORRIDOR	328 SF
A103	-	CORRIDOR	296 SF
A104	117	TRAINING	416 SF
B119	-	LOBBY	1039 SF
S-1	STAIR 2	STAIR	81 SF
S-2	STAIR 1	STAIR	115 SF

## TECHNOLOGY ROUGH-IN GENERAL NOTES

- A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- B. DIVISION 26 CONTRACTOR IS RESPONSIBLE TO PROVIDE AND MAINTAIN ALL DATA SHEET, AND PROPER FINISHINGS AS SHOWN ON THE E3 DRAWINGS AND ON ET501 DETAILS.
- C. COORDINATE THE INSTALLATION OF ALL SPEAKER LOCATION ROUGH IN PLACEMENTS AND BACKSCENE CONDUIT INSTALLATION WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.
- D. COORDINATOR CLOSET OR CABINETS, POWER NEEDS AND PLACEMENTS WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.

### ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NOTE

R11 COORDINATE POWER NEEDS WITH TECHNOLOGY AND SOUND SYSTEM COORDINATOR.

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FIELDHOUSE**

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**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**



**ARCHITECT**

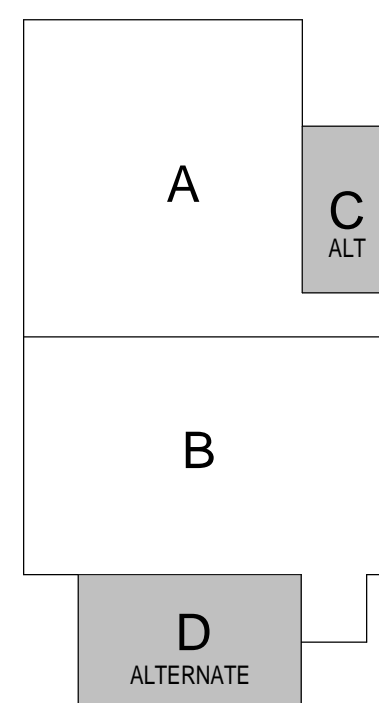


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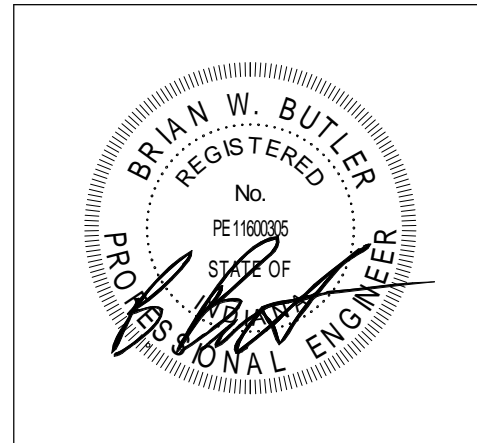
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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



## KEY PLAN

## CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS

DRAWN BY: CDT

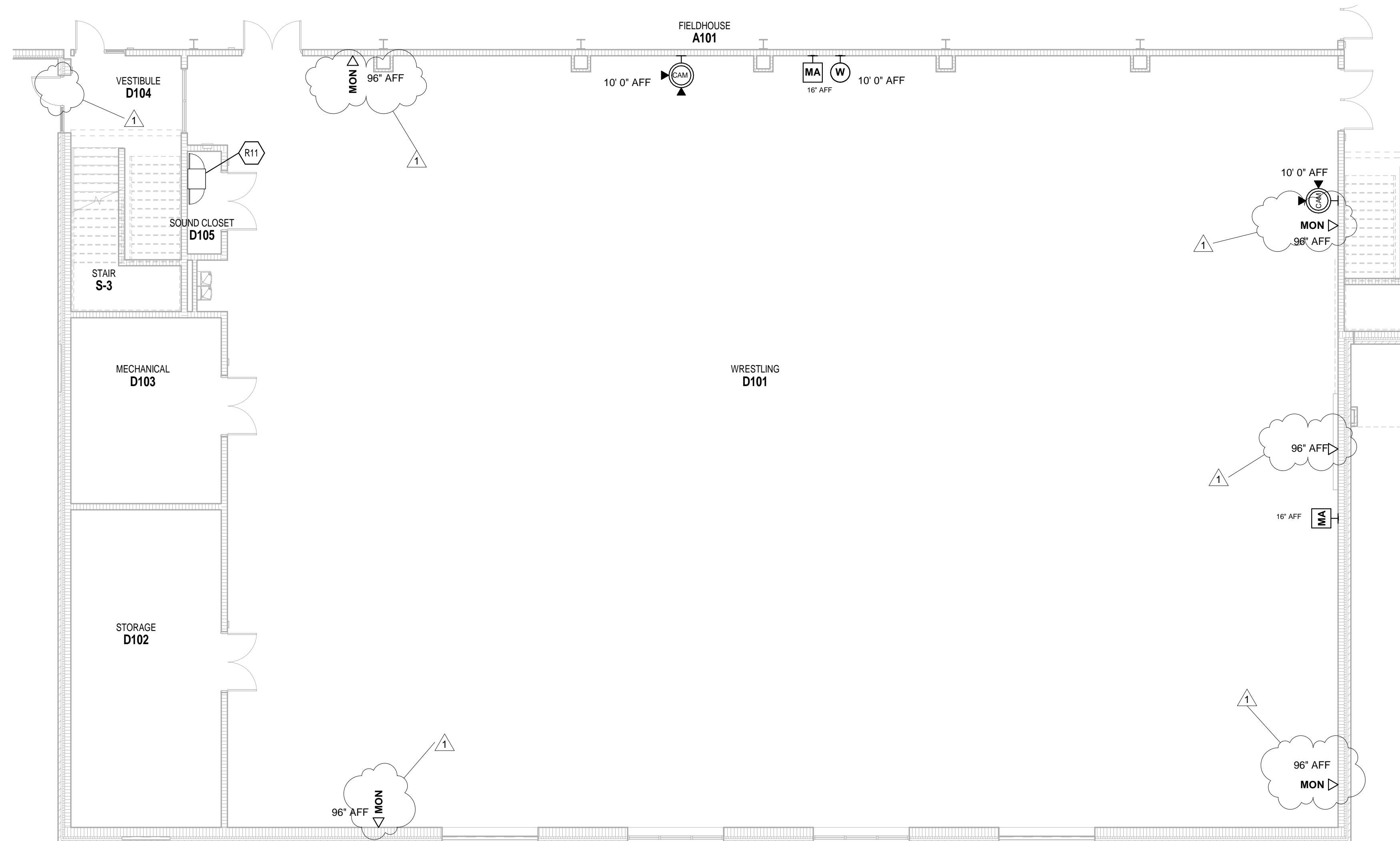
PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 1.13.2024

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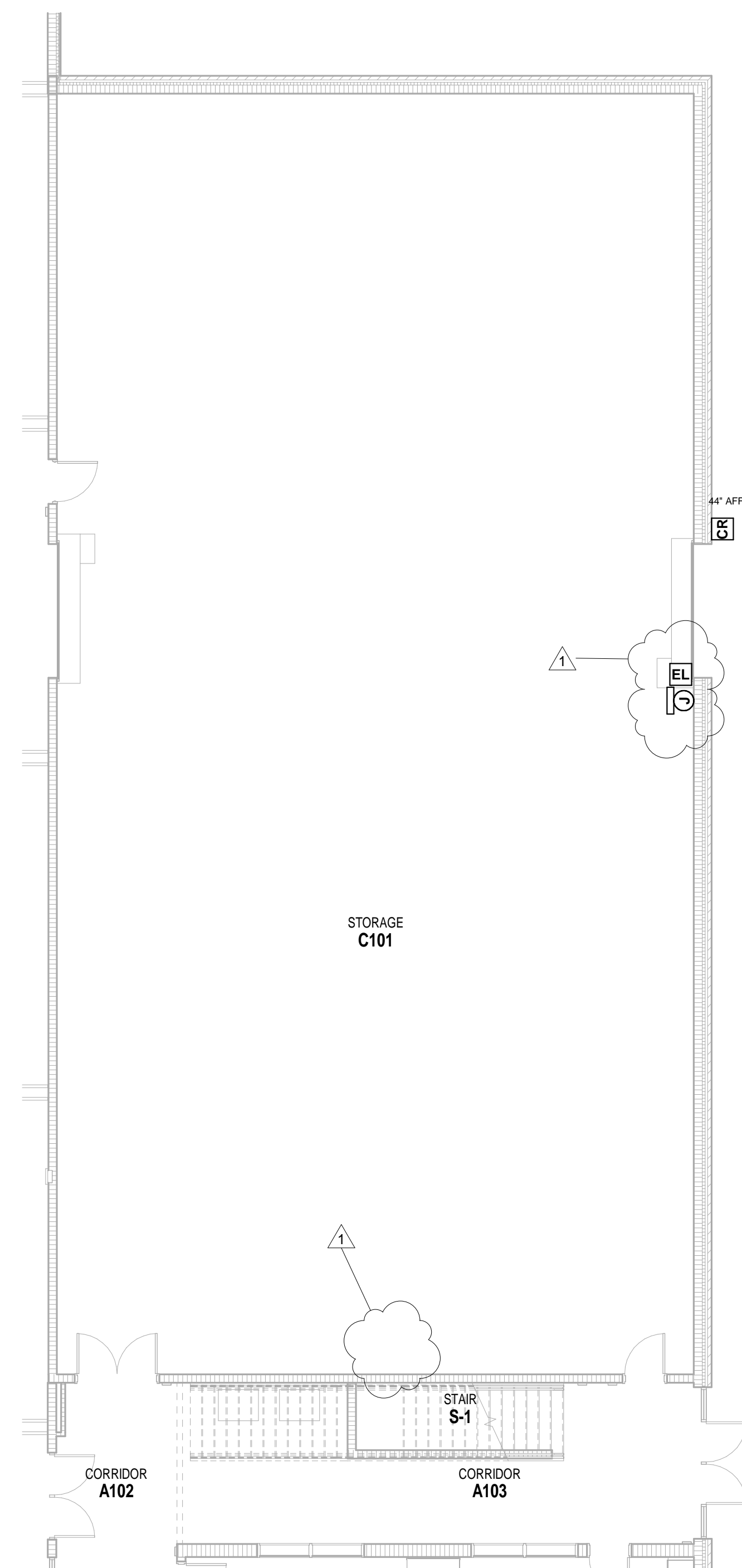
**FIRST FLOOR TECHNOLOGY  
ROUGH-IN PLAN - UNIT C& D ALT**

# ET11C



**FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT D  
ALTERNATE**

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



**FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT C  
ALTERNATE**

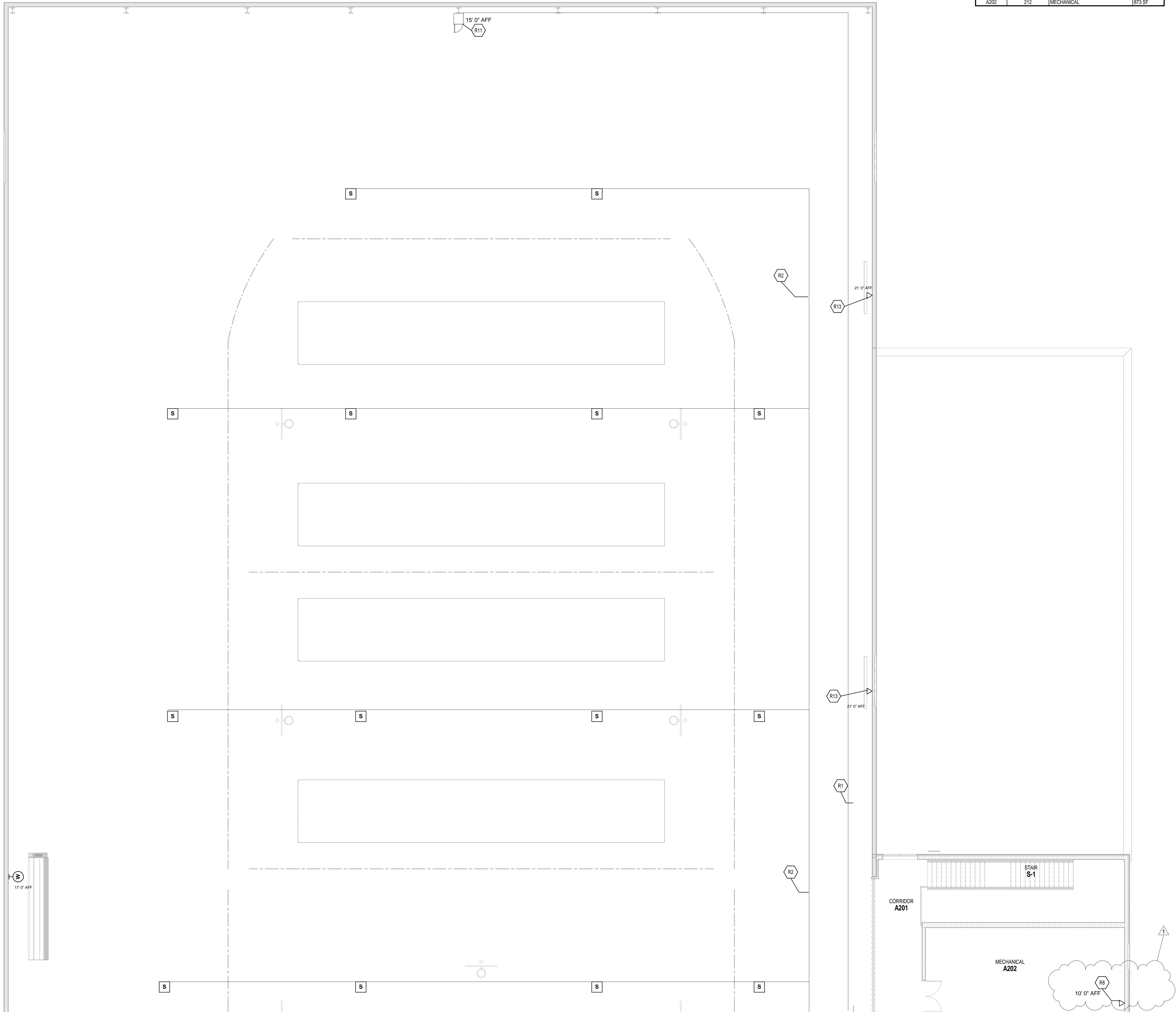
SCALE: 1/8" = 1'-0"

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	54239 SF
A102	-	CORRIDOR	328 SF
S-1	STAIR 2	STAIR	81 SF
A201	-	CORRIDOR	341 SF
A202	212	MECHANICAL	873 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

- A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- B. DIVISION 26 CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL ALL DATA SLEEVES WITH PROPER BUSHINGS AS SHOWN ON THE E3 DRAWINGS AND ON ET001 DETAILS. COORDINATE THE INSTALLATION OF ALL SPEAKER LOCATION ROUGH IN PLACEMENTS AND BACKBONE CONDUIT INSTALLATION WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.
- C. COORDINATE ALL CLOSET OR CABINET POWER NEEDS AND PLACEMENTS WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.
- D. COORDINATE SCOREBOARD ROUGH IN LOCATION WITH GENERAL CONTRACTOR.

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NOTE

- R1 PROVIDE 2" CONDUIT PATHWAY FROM 2ND FLOOR ER TO WALL MOUNTED TR. CONDUIT TO BE SAME COLOR AS CEILING.
- R2 SEE DETAIL S1 E3.02 FOR FIELDHOUSE/ BASKETBALL COURTS SOUND SYSTEM CONDUIT RISER DIAGRAM.
- R8 PROVIDE 3/4" CONDUIT TO ACCESSIBLE LAY-IN CEILING FOR TEMPERATURE CONTROL. VERIFY EXACT LOCATIONS WITH MECHANICAL CONTRACTOR.
- R11 COORDINATE POWER NEEDS WITH TECHNOLOGY AND SOUND SYSTEM COORDINATOR.
- R13 COORDINATE SCOREBOARD ROUGH IN LOCATION WITH GENERAL CONTRACTOR.

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PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



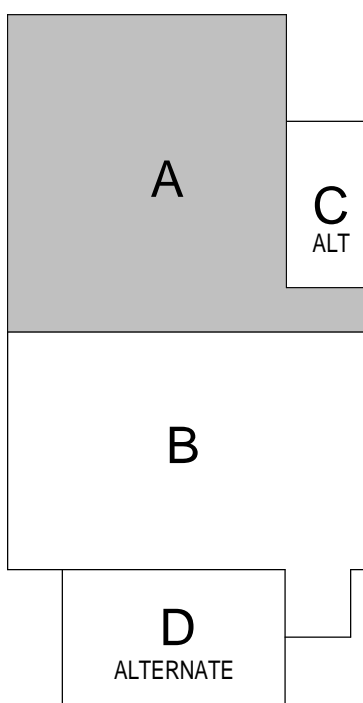
ARCHITECT



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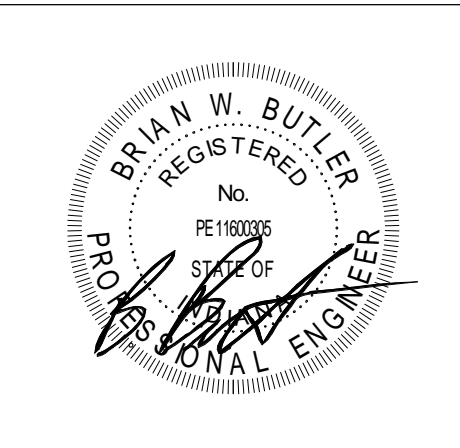
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350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



KEY PLAN

CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS

DRAWN BY: CDT

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 1/13/2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1/26/2024

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN - UNIT A

ET12A

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
B209	208	LOCKER ROOM #4	402 SF
B210	207	CLASSROOM	942 SF
B211	206	CUSTODIAN	67 SF
B212	205	TOILET	83 SF
B213	204	TOILET	63 SF
B214	203	ELECTRICAL / TECHNOLOGY	58 SF
B215	202	ELEVATOR EQUIPMENT	55 SF
B216	201	CLASSROOM	940 SF
B217		COMMONS	984 SF
S-2	STAIR 1	STAIR	175 SF

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

B. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL DATA SLEEVES WITH PROPER BUSHINGS AS SHOWN ON THE E3 DRAWINGS AND ON ETS01 DETAILS.

C. COORDINATE THE INSTALLATION OF ALL SPEAKER LOCATION ROUGH IN PLACEMENTS AND BACKBONE CONDUIT INSTALLATION WITH THE DIVISION 27 CONTRACTOR PRIOR TO ROUGH-IN.

D. COORDINATE ALL CLOSET OR CABINET POWER NEEDS AND PLACEMENTS WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.

# ET12B

**VERIFICATION NOTE**

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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

**PENN HIGH  
SCHOOL  
FIELDHOUSE**

12641 McKinley Highway, Mishawaka,  
Indiana 46545

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**

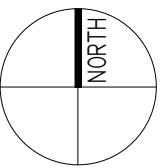
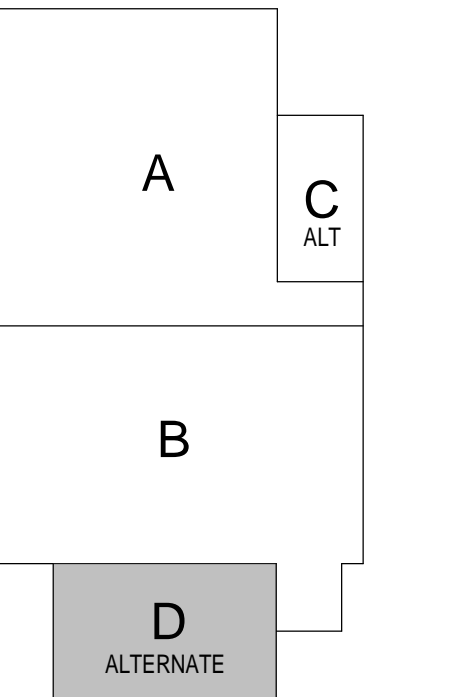


ARCHITECT



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50 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



## KEY PLAN

## CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS  
DRAWN BY: CDT  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 1.13.2024

[illegible]

**SECOND FLOOR TECHNOLOGY  
ROUGH-IN PLAN - UNIT D ALT**

# ET12D

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	54239 SF
B201	-	CORRIDOR	1444 SF
B217	-	COMMONS	984 SF
S-2	STAIR 1	STAIR	175 SF

## TECHNOLOGY ROUGH-IN GENERAL NOTES

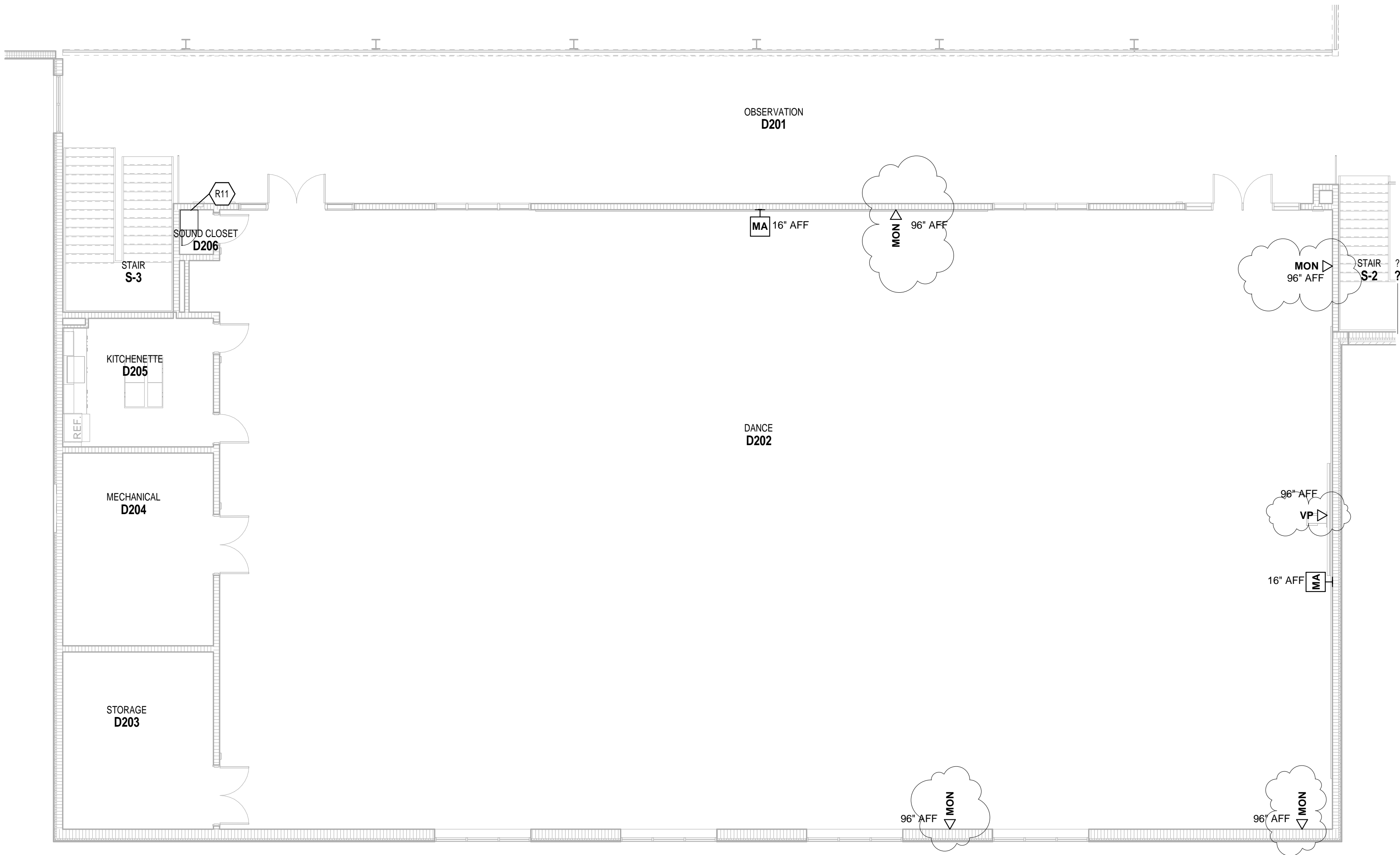
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- D. COORDINATE ALL CLOSET OR CABINET POWER NEEDS AND PLACEMENTS WITH THE DIVISION 27 CONTRACTOR PRIOR TO INSTALLATION.

### ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NOTE

- R11 COORDINATE POWER NEEDS WITH TECHNOLOGY AND SOUND SYSTEM COORDINATOR.



1  
N.T.S

**SECOND FLOOR TECHNOLOGY ROUGH-IN  
PLAN - UNIT D ALTERNATE**

### VERIFICATION NOTE

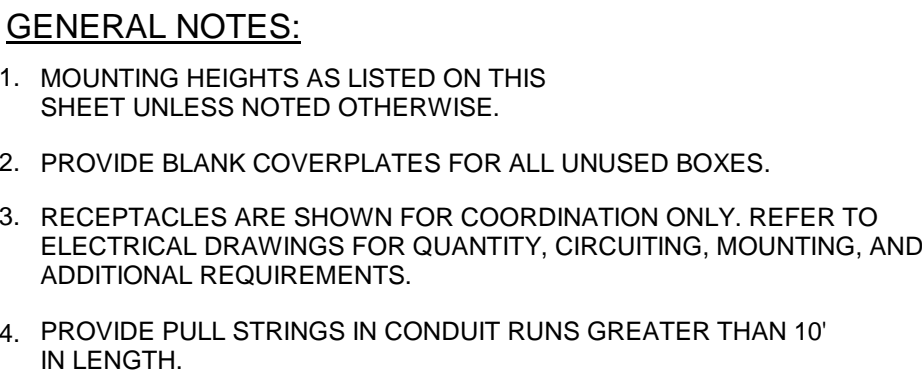
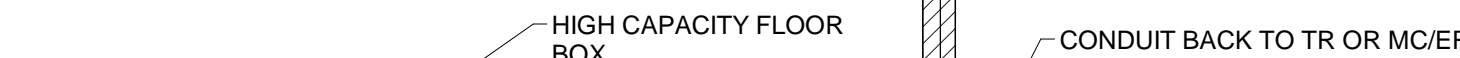
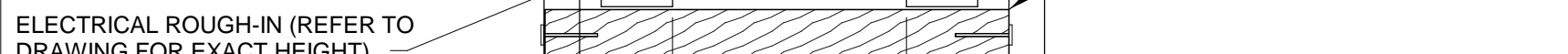
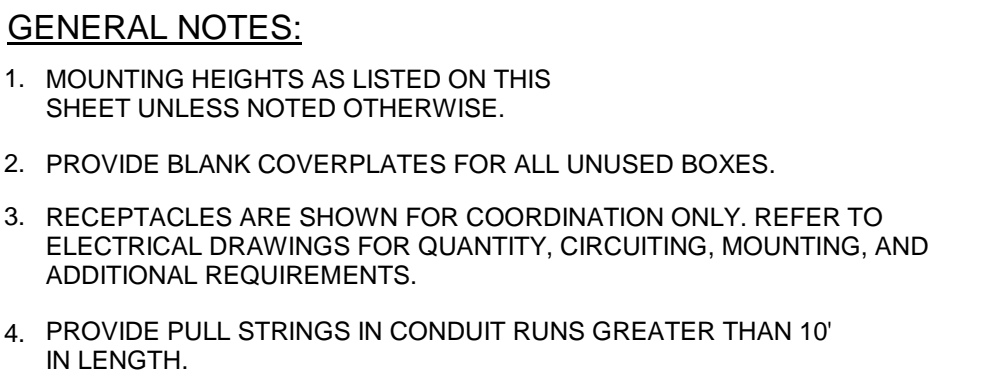
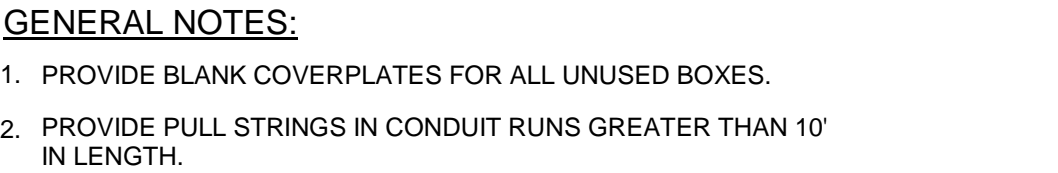
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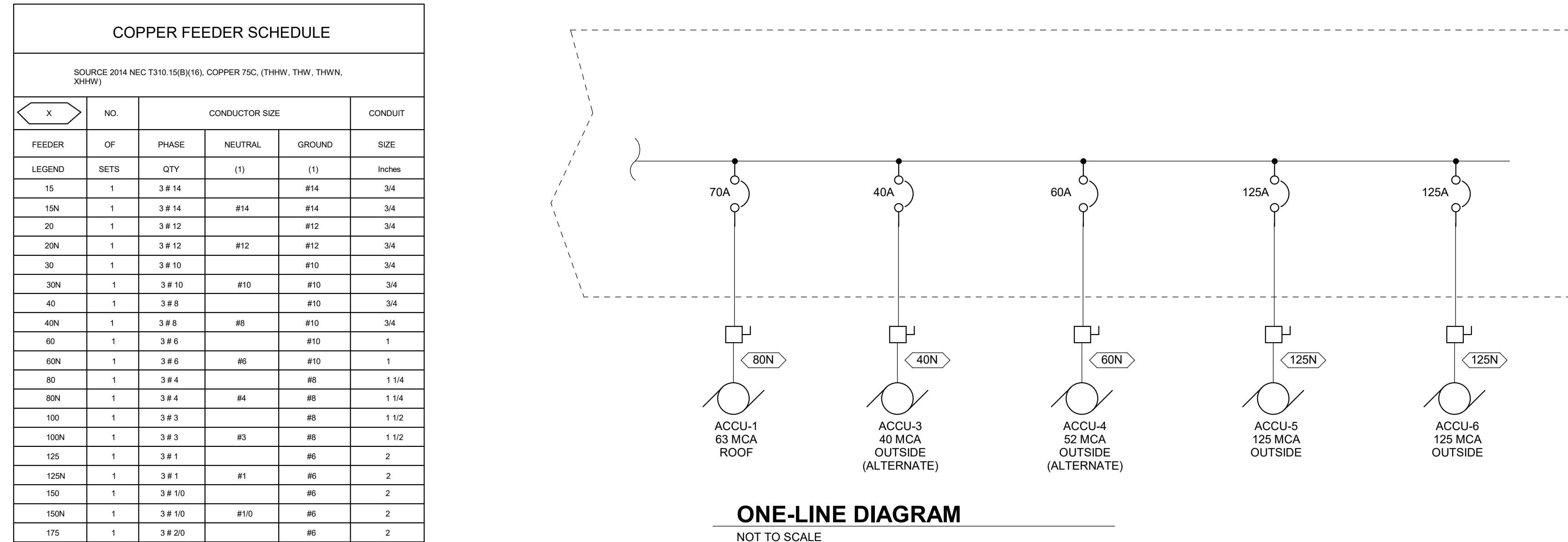
SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

## ACCESS CONTROL ROUGH-IN SYMBOLS

## INTRUSION DETECTION ROUGH-IN SYMBOLS

FLOOR



1

# E-601

Branch Panel: 1AH1											
Location: ELECTRICAL A105				Volts: 480/277 Wye				A.I.C. Rating:			
Supply From: DP				Phases: 3				Mains Type: M.C.B			
Mounting: Surface				Wires: 4				Mains Rating: 200 A			
Enclosure: Type 1								MCB Rating: 250 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	First floor lighting	20 A	1	3390... 3951...				1	20 A	Second floor lighting	2
3	Fieldhouse lighting	20 A	1		3840... 3840...			1	20 A	Fieldhouse lighting	4
5	Fieldhouse lighting	20 A	1			3840... 3840...		1	20 A	Fieldhouse lighting	6
7	Fieldhouse lighting	20 A	1	3072... 3072...				1	20 A	Fieldhouse lighting	8
9	Site lighting	20 A	1		0 VA	0 VA		1	20 A	Site lighting	10
11	Exterior lighting	20 A	1			0 VA	429 VA	1	20 A	Exterior lighting	12
13	Unit C - First Floor Lighting (NOTE 1)	--	1	-- --				1	--	Unit D - First Floor Lighting (NOTE 1)	14
15	D101 - Lighting #1 (NOTE 1)	--	1		-- --			1	--	Unit D - Second Floor Lighting (NOTE 1)	16
17	D101 - Lighting #2 (NOTE 1)	--	1			-- --	-- --	1	--	D201 - Lighting #1 (NOTE 1)	18
19	CB1	40 A	3	0 VA --				1	--	D201 - Lighting #2 (NOTE 1)	20
21	--	--	--		0 VA						22
23	--	--	--			0 VA					24
25											26
27											28
29											30
31											32
33											34
35											36
37											38
39											40
41											42
Total Load:				13485 VA	7680 VA	8109 VA					
Total Amps:				49 A	28 A	30 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Lighting		29274 VA		125.00%		36593 VA					
								Total Conn. Load: 29274 VA			
								Total Est. Demand: 36593 VA			
								Total Conn.: 35 A			
								Total Est. Demand: 44 A			
Notes:											
NOTE 1: PROVIDE CIRCUIT AS PART OF THE ALTERNATE BID.											

Branch Panel: 1AH2											
Location: ELECTRICAL A105				Volts: 480/277 Wye				A.I.C. Rating:			
Supply From: DP				Phases: 3				Mains Type:			
Mounting: Surface				Wires: 4				Mains Rating: 400 A			
Enclosure: Type 1								MCB Rating: 400 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	ARU-1	35 A	3	7479... 7479...	7479... 7479...		3	35 A	ARU-2	2	
3	--	--	--				--	--		4	
5	--	--	--			7479... 7479...	--	--		6	
7	Field House Fan CF-1	20 A	3	1163... 5817...			3	40 A	ACCU-2 Roof	8	
9	--	--	--		1163... 5817...		--	--		10	
11	--	--	--			1163... 5817...	--	--		12	
13	AHU-4 Rm. D204 (NOTE 1)	20 A	3	0 VA 5817...			3	40 A	AHU-1 Rm. A202	14	
15	--	--	--		0 VA 5817...		--	--		16	
17	--	--	--			0 VA 5817...	--	--		18	
19	AHU-2 Supply Rm. A202	20 A	3	3047... 2105...			3	20 A	AHU-2 Exhaust Rm. A202	20	
21	--	--	--		3047... 2105...		--	--		22	
23	--	--	--			3047... 2105...	--	--		24	
25	Booster pump DWB1 Rm. B113	20 A	3	5817... 0 VA			3	40 A	AHU-3 Rm. D103 (NOTE 1)	26	
27	--	--	--		5817... 0 VA		--	--		28	
29	--	--	--			5817... 0 VA	--	--		30	
31	CUH-2 Vest. B120	20 A	1	152 VA 152 VA			1	20 A	CUH-1 Corr. A103	32	
33										34	
35										36	
37										38	
39										40	
41										42	
Total Load:				39029 VA	38725 VA	38725 VA					
Total Amps:				141 A	140 A	140 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Motor		116478 VA		104.82%		122087 VA					
								Total Conn. Load: 116478 VA			
								Total Est. Demand: 122087 VA			
								Total Conn.: 140 A			
								Total Est. Demand: 147 A			
Notes:											
NOTE 1: PROVIDE CIRCUIT AS PART OF THE ALTERNATE BID.											

Branch Panel: 1AL1											
Location: ELECTRICAL A105				Volts: 120/208 Wye				A.I.C. Rating:			
Supply From: T-1				Phases: 3				Mains Type: M.C.B			
Mounting: Surface				Wires: 4				Mains Rating: 400 A			
Enclosure: Type 1								MCB Rating: 400 A			
Notes:											
CKT	Circuit Description	Trip	Poles	A	B	C	Poles	Trip	Circuit Description	CKT	
1	Convenience receptacles Corr. A103, Rm. A104	20 A	1	1080... 2000...	1000... 360 VA			1	20 A	Microwave and GFCI receptacles Rm. A104	2
3	Refrigerator receptacle Rm. A104	20 A	1					1	20 A	Tub receptacles Rm. A104	4
5	Convenience receptacles Corr. A102, Rms....	20 A	1			1080... 2160...		1	20 A	Fieldhouse floor boxes Rm. A101	6
7	Fieldhouse floor boxes Rm. A101	20 A	1	1080... 1080...				1	20 A	Fieldhouse floor boxes Rm. A101	8
9	Fieldhouse receptacles Rm. A101, Exterior wall	20 A	1		1440... 540 VA			1	20 A	Fieldhouse receptacles Rm. A101, Exterior wall	10
11	Receptacles Rm. A101, Corr. B101	20 A	1			1260... 900 VA	1	20 A	Fieldhouse receptacles Rm. A101, Exterior wall	12	
13	Receptacles Rms. B102-B106	20 A	1	1440... 1620...				1	20 A	Convenience receptacles Rms. B106-B112	14
15	Receptacles Rms. B113-B116, B118	20 A	1		1440... 720 VA			1	20 A	Convenience and monitor receptacles Rm. B117	16
17	Receptacles Rm. B118	20 A	1			1260... 1260...		1	20 A	Receptacles Rm. B119, Exterior walls	18
19	Receptacles Rm. B121	20 A	1	1080... 360 VA				1	20 A	Water cooler receptacles Corr. B101 (NOTE 2)	20
21	Convenience receptacles Corr. A201, Rm. A202	20 A	1		1412... 1440...		1	20 A	Receptacles Rms. B202-B206 (NOTE 1)	22	
23	Receptacles Corr. B201, Rms. B207-B209 (NOT...)	20 A	1			1260... 1800...	1	20 A	Convenience receptacles Corr. B201, Rms....	24	
25	Receptacles Rm. B210	20 A	1	1260... 1260...				1	20 A	Receptacles Rm. B216	26
27	Overhead Door #1 - A101	20 A	1		1127... 828 VA		1	20 A	Overhead Door #2 - A101	28	
29	Overhead Door #3 - A101	20 A	1			828 VA 1127...	1	20 A	Bleacher Motor #1	30	
31	Elevator Pump Pump and Control Panel	20 A	1	1127... 1000...			2	20 A	EUH-1 Stair, S-2	32	
33	First Floor VAVs	20 A	1		350 VA 1000...		--	--	--	34	
35	Second Floor VAVs	20 A	1			250 VA 0 VA	1	20 A	Monitor receptacles - East Wall D101 (NOTE 1)	36	
37	Overhead Door, Exhaust fan EF-C1 - C101 (NOT...)	20 A	1	0 VA 0 VA			1	20 A	Receptacles - North Wall D101 (NOTE 1)	38	
39	Receptacles #1, PUH-5 - C101 (NOTE 1)	20 A	1		0 VA 0 VA		1	20 A	Receptacles - East Wall D101 (NOTE 1)	40	
41	Receptacles #2, PUH-6 - C101 (NOTE 1)	20 A	1			0 VA 0 VA	1	20 A	Receptacles - South Wall D101 (NOTE 1)	42	
43	Sound Rack - D101 (NOTE 1)	20 A	1	0 VA 0 VA			1	20 A	Receptacles - West Wall D101, PUH-3 Rm. D102...	44	
45	Water Coolers - D101 (NOTE 1)	20 A	1		0 VA 0 VA		1	20 A	Receptacles - D102-104 & Exterior (NOTE 1)	46	
47	Receptacles - North Wall D202 (NOTE 1)	20 A	1			0 VA 0 VA	1	20 A	Sound Rack - D206 (NOTE 1)	48	
49	Receptacles - East Wall D202 (NOTE 1)	20 A	1	0 VA 0 VA			1	20 A	Water Coolers - D202 (NOTE 1)	50	
51	Receptacles - South Wall D202 (NOTE 1)	20 A	1		0 VA 0 VA		1	20 A	Refrigerator - D205 (NOTE 1)	52	
53	Receptacles - West Wall D202, Island D205...	20 A	1			0 VA 0 VA	1	20 A	Receptacles - D101, D103-105 (NOTE 1)	54	
55	Receptacles #1 - B117	20 A	1	180 VA 360 VA			1	20 A	Receptacles #2 - B117	56	
57	Receptacles #3 - B117	20 A	1		360 VA 360 VA		1	20 A	Receptacles - Island B117	58	
59	Receptacle - Floor Scrubber B115	20 A	1			180 VA 360 VA	1	20 A	Water cooler receptacles Corr. B101	60	
61	Elevator lights, receptacle	20 A	1	288 VA 720 VA			1	20 A	IDF Backboard receptacles Rm. B214	62	
63	IDF Rack receptacle Rm. B214	20 A	1		180 VA 360 VA		1	20 A	IDF Rack receptacle Rm. B214	64	
65	BLR-1 Control Panel Rm. A202	20 A	1			1920... 1920...	1	20 A	BLR-2 Control Panel Rm. A202	66	
67	HWP-1 Rm. A202	20 A	2	915 VA 915 VA			2	20 A	HWP-2 Rm. A202	68	
69	--	20 A	3	915 VA 915 VA			3	20 A	HWP-4 Rm. A202	70	
71	HWP-3 Rm. A202	20 A	3			1272... 1272...	--	--	--	72	
73	--	--	--	1272... 1272...			--	--	--	74	
75	--	--	--		1272... 1272...		--	--	--	76	
77	EF-A1 Roof	20 A	1			345 VA 750 VA	1	20 A	Temperature Control Panels Rm. A202	78	
79	Scoreboard receptacles	20 A	1	540 VA 1633...			1	20 A	Hot Water Return Pump HCW-1, PUH-2 Rm....	80	
81	Water Softener receptacles Rm. B113	20 A	1		360 VA 360 VA		1	20 A	Vending receptacle #1 Corr. A103 (NOTE 2)	82	
83	EF-B1,82-B3 - ROOF	20 A	1			805 VA				84	
Total Load:				22482 VA	18011 VA	22009 VA					
Total Amps:				192 A	150 A	189 A					
Legend:											
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals			
Motor		19864 VA		104.80%		20818 VA					
Other		6950 VA		100.00%		6950 VA		Total Conn. Load: 62502 VA			
Receptacle		3000 VA		100.00%		3000 VA		Total Est. Demand: 52220 VA			
Receptacle - Convenience		32328 VA		65.47%		21164 VA		Total Conn.: 173 A			
Receptacle - Special		360 VA		90.00%		288 VA		Total Est. Demand: 145 A			
Notes:											
NOTE 1: PROVIDE CIRCUIT UNDER THE ALTERNATE BID.											
NOTE 2: PROVIDE WITH 5mA GFCI BREAKER.											



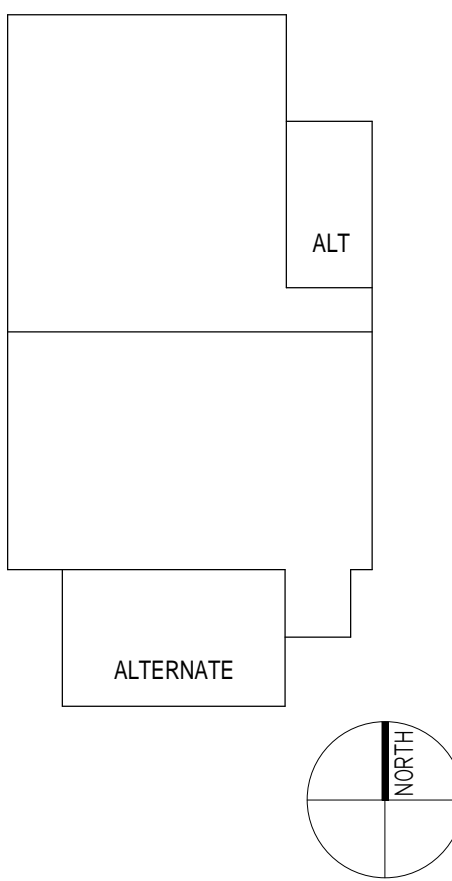
**ARCHITECT**

**FANNING  
HOWEY**

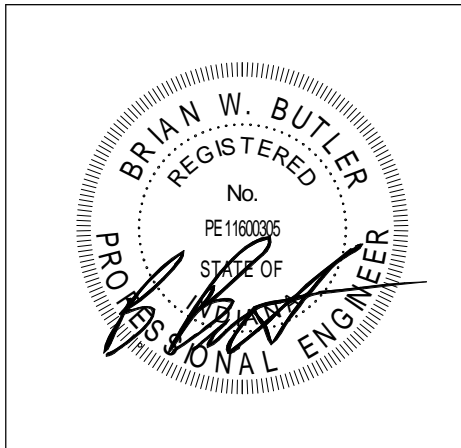
317.848.0966

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350 E NEW YORK ST #300, INDIANAPOLIS, IN 4620



## CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS  
DRAWN BY: CDT  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 1.13.2024



















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## TECHNOLOGY SYMBOLS & ABBREVIATIONS


# T-001

COMMUNICATIONS SYMBOLS LEGEND		
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
	COMMUNICATIONS OUTLET: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	2
	WALL MOUNTED COMMUNICATIONS OUTLET: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1
	MULTI CAPACITY FLOOR BOX: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	POKE-THRU FLOOR BOX: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	CEILING MOUNTED PROJECTOR: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-
	WALL MOUNTED PROJECTOR: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	8/T-501
	CEILING MOUNTED WIRELESS ACCESS POINT: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	2 CAT6A
	WALL MOUNTED WIRELESS ACCESS POINT: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	2 CAT6A
	CABLE TRAY	-
	LADDER TRAY	-
	CONDUIT SLEEVES BETWEEN WALLS	SHOWN ON E3 DRAWINGS
	2 (TWO) 4' CONDUIT SLEEVES BETWEEN FLOORS	-
	TELEPHONE TERMINATION BOARD	-
	TECHNOLOGY EQUIPMENT/SOUND RACK	7/T-501
	2-POST TECHNOLOGY EQUIPMENT RACK	-
	4-POST TECHNOLOGY EQUIPMENT RACK	7/T-501
	OVERHEAD DOCUMENT CAMERA: WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	-

ACCESS CONTROL SYMBOLS LEGEND		
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
	ACCESS CONTROL PANEL	2/T-502
	CARD READER	2/T-502
	ELECTRONIC LATCH SET WITH ELECTRONIC POWER TRANSFER	2/T-502
	AUTOMATIC DOOR PUSHBUTTON	-
	ABOVE CEILING WALL MOUNTED DOOR ACCESS CONTROLLER JUNCTION BOX. WHEN INDICATED WITH C-X-X = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	2/T-502
	PUSH TO RELEASE BUTTON	-
	AUTOMATIC DOOR OPERATOR	2/T-502
	LOCKDOWN BUTTON	-
	AIPHONE DOOR INTERCOM/CAMERA	-
	AIPHONE MAIN INTERCOM/CAMERA CONSOLE DESKPHONE	-

PUBLIC ADDRESS AND MASS NOTIFICATION SYSTEMS		
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
	ANTENNA	-
	CLASSROOM SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED	3/T-502
 G	GYMNASIUM SOUND REINFORCEMENT SPEAKER - CEILING MOUNTED	-
 MP	MULTI-PURPOSE ROOM SOUND SPEAKER - CEILING MOUNTED	-
	CLASSROOM SOUND REINFORCEMENT SPEAKER - WALL MOUNTED	-
 C	WALL MOUNTED SPEAKER	-
	WALL MOUNTED SPEAKER-OUTLET	-
 S	CEILING MOUNTED PA SPEAKER	1/T-503
 S A	LINE ARRAY COLUMN SPEAKERS - WALL MOUNTED	-
 F	FULL RANGE CEILING SPEAKER	-
 IC	CEILING MOUNTED INTERCOM SPEAKER	-
 M	WALL MICROPHONE INPUT	-
 M	CEILING MICROPHONE	-
 A	AUX. INPUT	-
 S M	MONITOR OUTPUT	-
	RECESSED JUNCTION BOX FOR SOUND SYSTEM	-
	SUBWOOFER	-
 MA	WALL MOUNTED MICROPHONE/AUXILIARY INPUT	1/T-503

INTERIOR VIDEO SURVEILLANCE CAMERA SYMBOLS LEGEND		
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1/7-502
	WALL MOUNTED VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1/7-502

EXTERIOR VIDEO SURVEILLANCE CAMERA SYMBOLS LEGEND		
SYMBOL	DESCRIPTION	WIRING DETAIL(S) UNLESS NOTED OTHERWISE
	WALL MOUNTED WEATHERPROOF VIDEO SURVEILLANCE CAMERA. WHEN INDICATED WITH C-x, x = THE QUANTITY OF COMMUNICATIONS COPPER HORIZONTAL CABLING, IN ADDITION TO OTHER CABLES NOTED.	1/T-502

TELECOMMUNICATIONS 6A CABLE COLOR LEGEND				
SYSTEM	TERMINATION (RJ45) PANDUIT	CABLE GENERAL	PATCH CABLE (PATCH PANEL)	PATCH CABLE (STATION)
DATA	WHITE	BLUE	BLUE	BLACK
WIRELESS	BLUE	BLUE	WHITE	WHITE
CAMERA	BLUE	BLUE	BLACK	BLACK
ACCESS	YELLOW	YELLOW	YELLOW	YELLOW
HVAC	RED	RED	RED	RED

	CONTRACTOR FURNISH	CONTRACTOR INSTALL	OWNER FURNISH	OWNER INSTALL
ACCESS CARD READERS, DOOR CONTACTS	NO	NO	YES	YES
ACCESS, SECURITY CABLING & ROUGH INS	YES	YES	NO	NO
AV PROJECTOR AND MOUNTS	YES	YES	NO	NO
AV PROJECTOR MISC. CABLING (IN WALL)	YES	YES	NO	NO
AV MONITOR PATCH CABLES	YES	YES	NO	NO
WIRELESS CLOCKS	NO	NO	YES	YES
FIBER BACKBONE	YES	YES	NO	NO
FIBER TERM AND TEST	YES	YES	NO	NO
FIBER ENCLOSURE WITH LC COUPLER PANEL	YES	YES	NO	NO
NETWORK EQUIPMENT	NO	NO	YES	YES
NETWORK SFP	NO	NO	YES	YES
IDF RACKS	YES	YES	NO	NO
SOUND REINFORCEMENT	YES	YES	NO	NO
SURVEILLANCE CAMERAS	NO	NO	YES	YES
SURVEILLANCE CAMERAS CAT6A CABLING	YES	YES	NO	NO
WIRELESS ACCESS POINTS	NO	YES	YES	NO
WIRELESS ACCESS POINTS CAT6A CABLING	YES	YES	NO	NO

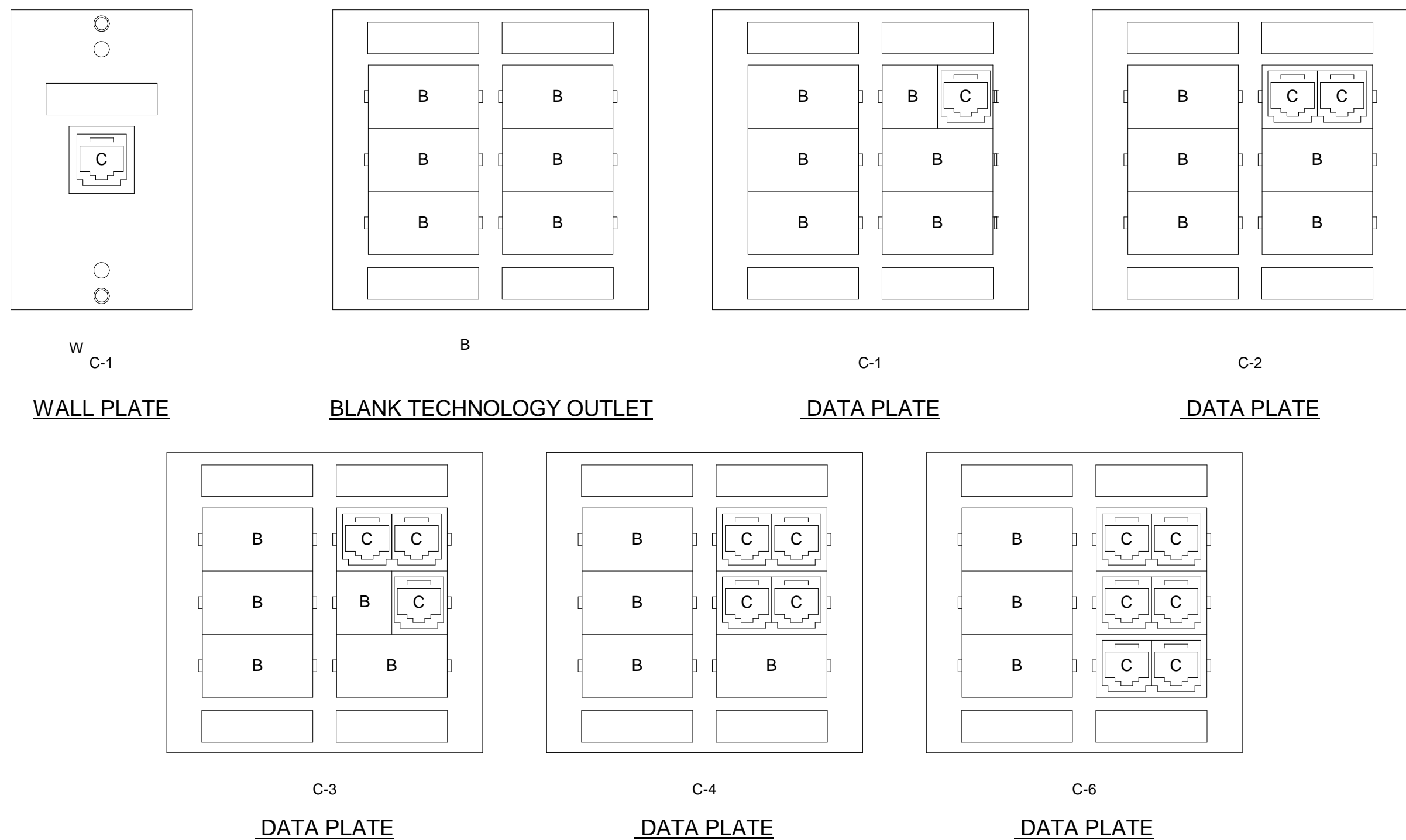
## TECHNOLOGY GENERAL NOTES

- A THE COMMUNICATIONS CABLEING CONTRACTOR(S) IS/ARE RESPONSIBLE FOR ANY ADDITIONAL CONDUIT SLEEVES, OUTLET/JUNCTION BOXES, SURFACE RACEWAY, CABLE TRAY, DOUBLE GANG SOLID PLASTER ANCHORS, ETC. NOT SHOWN ON THE E3 ROUGH IN DRAWINGS.
- B THE COMMUNICATIONS CABLEING CONTRACTOR(S) IS/ARE RESPONSIBLE FOR COORDINATING WITH ELECTRICAL CONTRACTOR IN EXTENDING THE ELECTRICAL SERVICE FROM THE ELECTRICAL JUNCTION BOX IN THE SPACE TO ALL THE COMMUNICATIONS RACKS/CABINETS.
- C THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR REPLACING/REPAIRING DAMAGED CEILING GRID/TILE AS A RESULT OF THEIR INSTALLATION.
- D THE CONTRACTOR SHALL VERIFY THE SURFACE RACEWAY LOCATIONS, ROUTING, OPENINGS, ETC. WITH THE BUILDING ELECTRICAL CONTRACTOR. PROVIDE PROPER COVER PLATES FOR THE DEVICES AS REQUIRED.
- E THE COMMUNICATIONS CABLEING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF THE MONITORS AND VIDEO PROJECTOR WITH THE WHITEBOARD INSTALLATION CONTRACTOR AND ELECTRICAL CONTRACTOR TO INSURE A FULL AND CLEAR PROJECTION IMAGE.

## TECHNOLOGY ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW

AFG	ABOVE FINISH FLOOR
AFB	ABOVE FINISH GRADE
B	BLANK
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION
J	JUNCTION BOX
MC/ER / MDF	MAIN CROSS-CONNECT/EQUIPMENT ROOM / MAIN DISTRIBUTION FRAME
+N	INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVICE
NTS	NOT TO SCALE
TOP	TEMPERATURE CONTROL PANEL
TR / IDF	TELECOMMUNICATIONS ROOM / INTERMEDIATE DISTRIBUTION FRAME
T.T.B.	TELEPHONE TERMINATION BOARD
TV	TELEVISION
UNO	UNLESS NOTED OTHERWISE
V	VERIFY IN FIELD
W	WALL MOUNTED
W	VIDEO INPUT LOCATION
WG	WIRE GUARD
R	RELEASE
D	DUAL FACE
W	WEATHER PROOF
VO	VIDEO OUTPUT
PTZ	PAN TILT ZOOM
E	EXISTING TO REMAIN
VP	VIDEO PROJECTOR
S	SURFACE MOUNTED

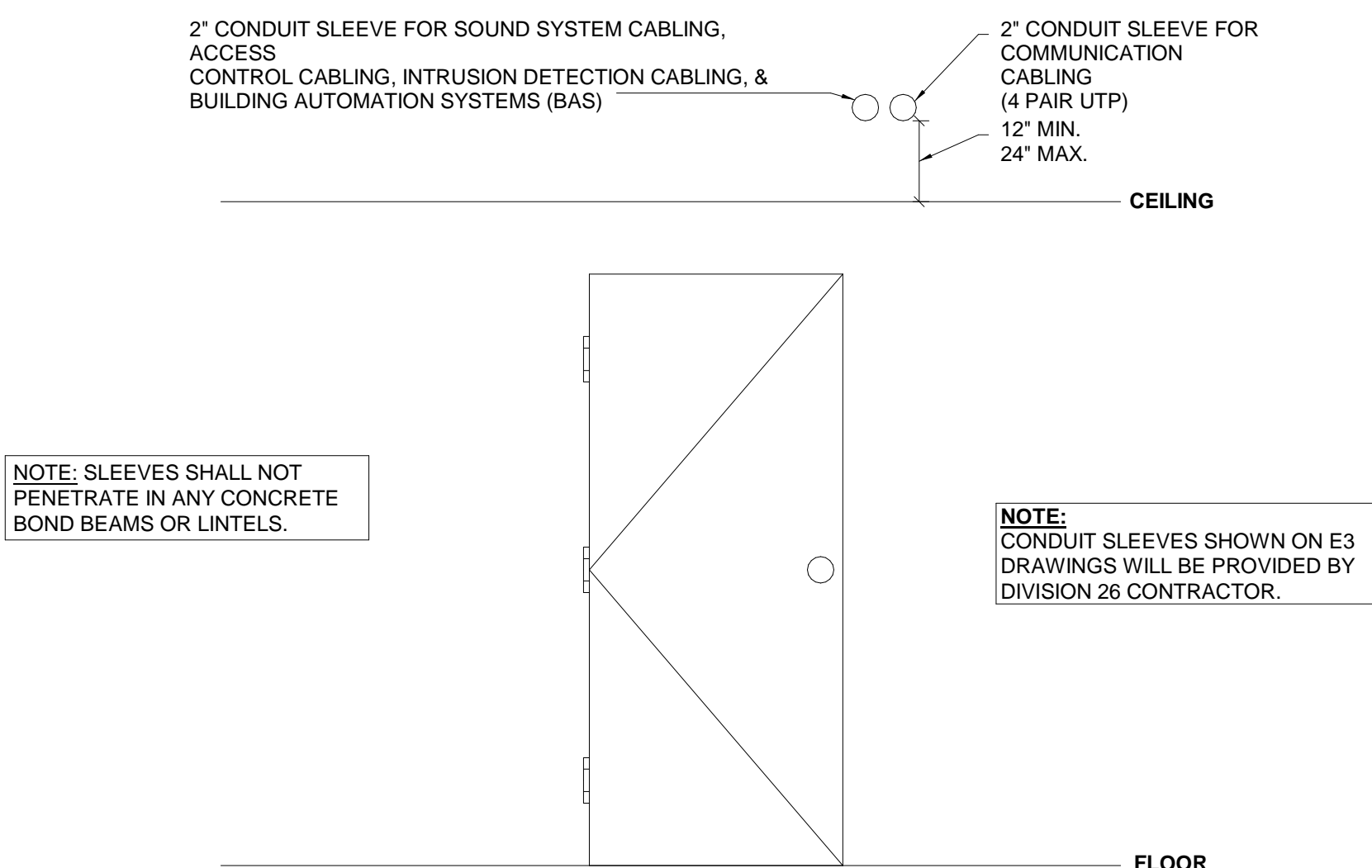
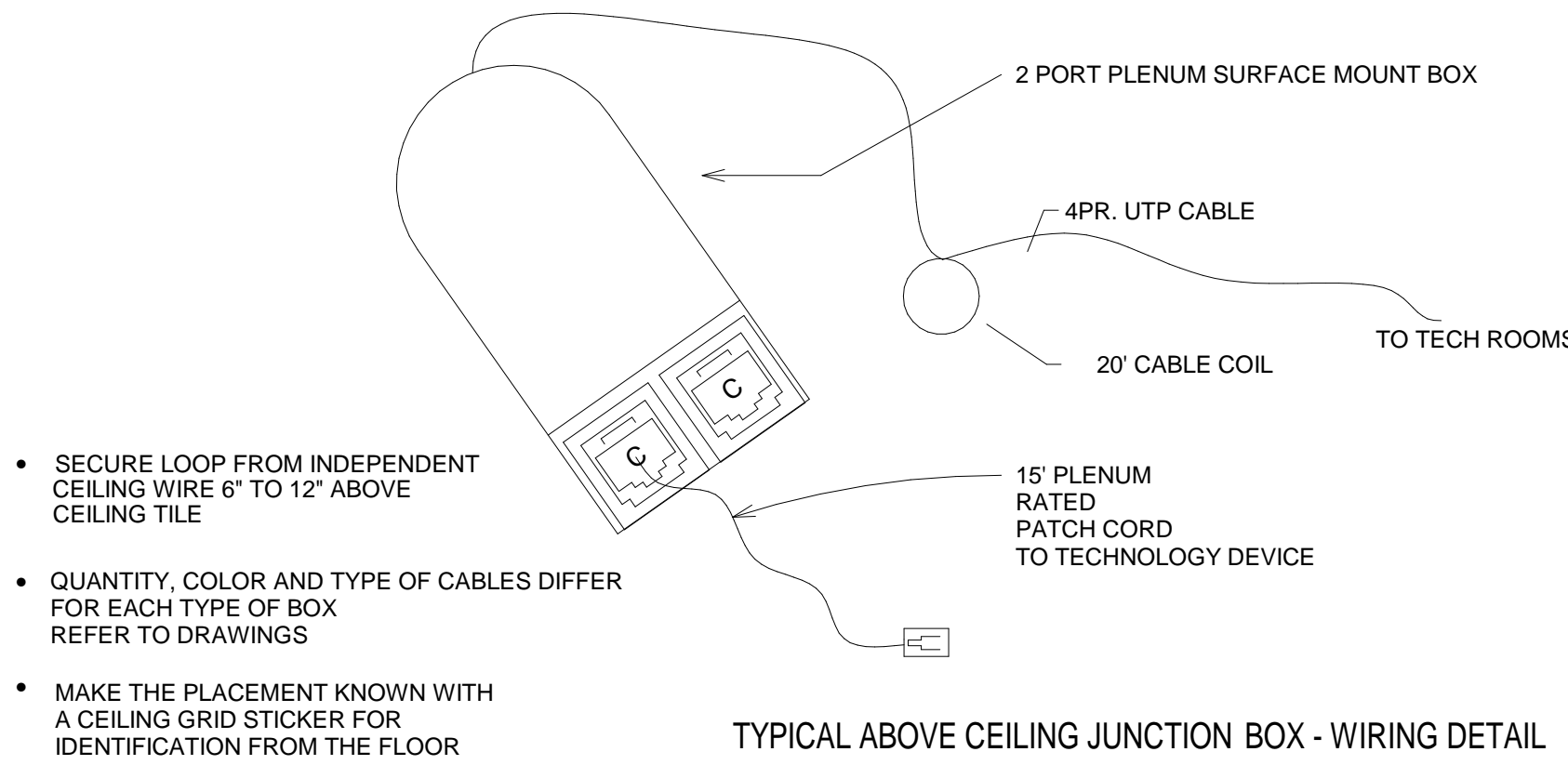


**NOTE:**  
REFER TO AV WIRING DETAILS FOR  
EXACT CONFIGURATIONS OF VIDEO  
INPUT (V.I.), VIDEO OUTPUT (VO), AND  
AV CABINET LOCATIONS..

WALL PLATE CONFIGURATIONS  
NO SCALE

## TECHNOLOGY FACEPLATE ABBREVIATIONS

C - RJ45 DATA JACK  
B - BLANK INSERT  
WB - RJ-45 JACK FOR USB INTERACTIVITY  
HD - RJ45 JACK FOR VIDEO  
3.5mm - 3.5mm JACK  
HDMI - HDMI CONNECTOR

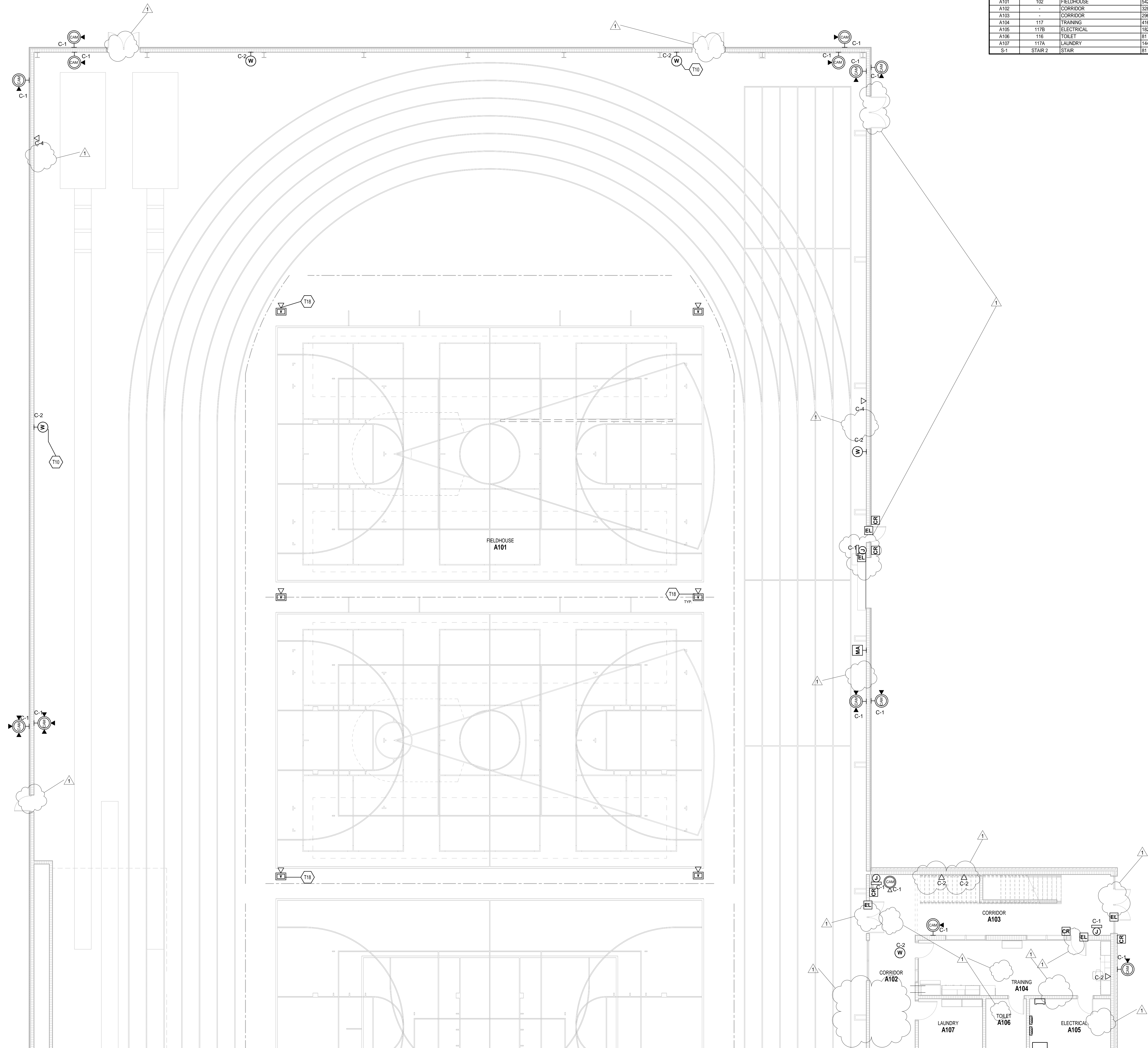


**NOTE: SLEEVES SHALL NOT PENETRATE IN ANY CONCRETE BOND BEAMS OR LINTELS.**

**NOTE:**  
CONDUIT SLEEVES SHOWN ON E3  
DRAWINGS WILL BE PROVIDED BY  
DIVISION 26 CONTRACTOR.

CONDUIT SLEEVES DETAIL

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ROOM LEGEND			
ROOM NO.	OWNER	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	5428 SF
A102	-	CORRIDOR	328 SF
A103	-	CORRIDOR	296 SF
A104	117	TRAINING	416 SF
A105	117B	ELECTRICAL	182 SF
A106	116	TOILET	81 SF
A107	117A	LAUNDRY	144 SF
S-1	STAIR 2	STAIR	81 SF

#### TECHNOLOGY PLAN GENERAL NOTES

- A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- B. CAT6A PATCH CORDS TO BE PROVIDED BY OTHERS.
- C. NETWORK EQUIPMENT AND WIRELESS ACCESS POINTS TO BE PROVIDED BY OWNER. INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLEING BY DIVISION 27 CONTRACTOR.
- D. CLASSROOM PROJECTORS AND SOUND REINFORCEMENT KITS TO BE PROVIDED TURNKEY BY THE DIVISION 27 CONTRACTOR. DIV 27 IS RESPONSIBLE FOR INSTALLATION AND TERMINATION OF ALL CONNECTIVITY WIRING NEEDED AS SHOWN ON DETAILS.
- E. ACCESS CONTROL IS ROUGH-IN WIRING ONLY AS SHOWN ON DETAILS. KANTECH SYSTEM EQUIPMENT AND PROGRAMMING TO BE PROVIDED BY OTHERS. (WIRELESS TECHNOLOGY SOLUTIONS)
- F. DOOR CONTACTS AND WIRING TO BE PROVIDED BY DOOR HARDWARE (087100) CONTRACTOR.
- G. VIDEO SURVEILLANCE EXAMVISION CAMERAS TO BE PROVIDED BY OTHERS. WIRELESS TECHNOLOGY SOLUTIONS) INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLEING BY DIVISION 27 CONTRACTOR. FIELDHOUSE FLOOR BOIES WILL HAVE ONE EMPTY CONDUIT TO EACH ONE FOR FUTURE TECH CABLES.
- H.

#### TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

# NOTE

- T10 PROVIDE CATEGORY 6A DATA FOR WIRELESS ACCESS POINTS. PROVIDE 20FT. SLACK LOOP COILED NEATLY AND SUPPORTED ABOVE THE CEILING. TERMINATE CABLES AND TEST PER SPECIFICATIONS. NOTE LOCATION ON RECORD DRAWINGS AND MARK LOCATION ON CEILING GRID WITH BLUE DOT. SLACK LOOP NOT NECESSARY FOR LOCATIONS WITH CONDUIT. SUCH AS GYMNASIUMS.
- T18 ALL FLOORBOIES IN FIELDHOUSE WILL HAVE ONE EMPTY CONDUIT TO EACH BOX FOR FUTURE DATA CABLEING.

#### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

12641 McKinley Highway, Mishawaka, Indiana 46545

PENN-HARRIS-MADISON SCHOOL CORPORATION



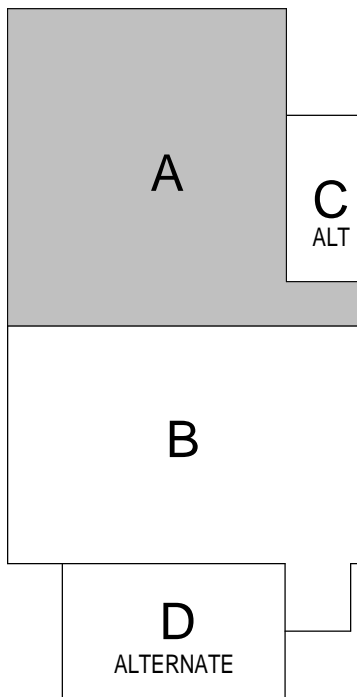
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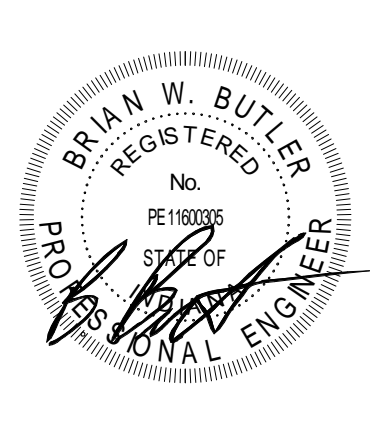
WWW.FHAI.COM

350 E NEW YORK ST #500, INDIANAPOLIS, IN 46204



#### KEY PLAN

#### CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS

DRAWN BY: CDT

PROJECT NUMBER: 222130.00

PROJECT ISSUE DATE: 1/13/2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1/26/2024

FIRST FLOOR TECHNOLOGY PLAN - UNIT A

# T-11A

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
B110	111	TOILET	63 SF
B111	111	TOILET	63 SF
B112	109	GIRLS RESTROOM	388 SF
B113	106	FIRE RISER	304 SF
B114	107	BOYS RESTROOM	370 SF
B115	108	STORAGE	127 SF
B116	105	CUSTODIAN	66 SF
B117	104	CONCESSION	263 SF
B118	103	OFFICE	341 SF
B119	102	LOBBY	1039 SF
B120	-	VESTIBULE	369 SF
B121	101	SHOW OFFICE	1168 SF
S-2	STAIR 1	STAIR	1115 SF

DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE PROVIDED BY OTHERS. WIRING SHALL BE PROVIDED BY OTHERS. THE CONTRACTOR SHALL PROVIDE THE CASEWORK ARCHITECTURAL FEATURES AND OTHER TRAVELERS PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED TO LAID OUT THE SYSTEM, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF ELECTRICAL DRAWINGS AND OTHER TRADES. ANY RELOCATION OF DEVICES SHALL BE THE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

CATCH PADS SHALL BE PROVIDED BY OTHERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND REMOVAL OF THE PADS TO BE PROVIDED BY OWNER. INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLE BY DIVISION 27 CONTRACTOR.

CLASSROOM PROJECTORS AND SOUND REINFORCEMENT KITS TO BE PROVIDED TURNKEY BY THE DIVISION 27 CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND TERMINATION OF ALL CONNECTIVITY WIRING NEEDED FOR THE PROJECT. ALL CABLES SHALL BE SHIELDED METALS.

ACCESS CONTROL IS ROUGH-IN WIRING ONLY AND NOT ON DETAILS. KATECH SYSTEM EQUIPMENT AND ACCESS CONTROL TO BE PROVIDED BY OTHERS. (WIRELESS TECHNOLOGY SOLUTIONS)

DOOR CONTACTS AND WIRING TO BE PROVIDED BY DOOR SCHEDULING CONTRACTOR.

VIDEO SURVEILLANCE EXAMINATION CAMERAS TO BE PROVIDED BY OTHERS. WIRING, INSTALLATION, LABELING AND TESTING OF CABLES BY DIVISION 27 CONTRACTOR. FIELD AND DOOR SCHEDULING CONTRACTOR SHALL BE REQUIRED TO CONDUIT TO EACH ONE FOR FUTURE TIE BACK.

12641 McKinley Highway, Mishawaka,  
Indiana 46545



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A diagram showing a 2x2 grid of cells. The top-left cell is white and labeled 'A'. The top-right cell is white and labeled 'C' with 'ALT' written below it. The bottom-left cell is gray and labeled 'B'. The bottom-right cell is white and labeled 'D' with 'ALTERNATE' written below it.

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# T-11B

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

# NOTE

T9 PROVIDE ACCESS CONTROL ON BOTH FLOORS FOR ELEVATOR. COORDINATE WITH ELEVATOR CONTRACTOR.

T10 PROVIDE CATEGORY 6A DATA FOR WIRELESS ACCESS POINTS. PROVIDE 20FT. SLOAP LOCK COORD NEATLY AND SUPPORTED ABOVE THE CEILING. TERMINATE CABLES AND TEST PER SPECIFICATIONS. NOTE LOCATION ON RECORD DRAWINGS AND MARK LOCATION ON CEILING GRID WITH BLUE DOT. SLOAP LOCK NOT NECESSARY FOR LOCATIONS WITH TWO FLOORS.

T16 PROVIDE CABLES FOR OWNER PROVIDE VIDEO ENTRY PHONE AND CALL BUTTON TO ALLOW COMMUNICATION AND DOOR REELEASE FROM SRO OFFICE AREA.

T17 TWO MAIN ENTRANCE DOORS TO HAVE BUZZ THROUGH CONTROL THAT WILL BE SEPARATELY CONTROLLED FROM WITH OR OFF SUCH ACCESS.

T18 ALL FLOORSCES IN FIELDHOUSE WILL HAVE ONE EMPTY CONDUIT TO EACH BOX FOR FUTURE DATA CABLING.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	54239 SF
A102	-	CORRIDOR	328 SF
A103	-	CORRIDOR	286 SF
A104	117	TRAINING	416 SF
B119	-	LOBBY	1039 SF
S-1	STAIR 2	STAIR	81 SF
S-2	STAIR 1	STAIR	115 SF

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)

## TECHNOLOGY PLAN GENERAL NOTES

- A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/WORK/WORK ARCHITECTURE TO PREVENT CONFLICTS. TRADES PRIOR TO ROUGH-IN: IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF SPACE, THE RELOCATION OF ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- B. CAT5A PATCH CORDS TO BE PROVIDED BY OTHERS.
- C. VIDEO SURVEILLANCE EQUIPMENT AND CABLES MUST BE PROVIDED BY OWNER. INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLEING BY DIVISION 27 CONTRACTOR.
- D. CLASSROOM PROJECTORS AND SOUND REINFORCEMENT CABLES TO BE PROVIDED TURKEY BY THE DIVISION 27 CONTRACTOR. DIVISION 27 CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND TERMINATION OF ALL CONNECTIVITY WIRING NEEDED TO SUPPORT ALL ON DETAILS.
- E. ACCESS CONTROL IS ROUGH-IN WIRING ONLY AS SHOWN ON DETAILS. KANTESH SYSTEM EQUIPMENT AND ACCESS CONTROLS TO BE PROVIDED BY OTHERS. (WIRELESS TECHNOLOGY SOLUTIONS)
- F. DOOR CONTACTS AND WIRING TO BE PROVIDED BY DOOR CONTRACTOR. 80% TO BE PROVIDED BY OTHERS.
- G. VIDEO SURVEILLANCE EXAMINATION CAMERAS TO BE PROVIDED BY OTHERS. INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLEING BY DIVISION 27 CONTRACTOR.
- H. FLOOR FLOOR SOLID WIRE SHALL BE PROVIDED BY DIVISION 27 CONTRACTOR TO EACH ONE FOR FUTURE TIE BACK CABLES.

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**PENN HIGH  
SCHOOL  
FIELDHOUSE**

12641 McKinley Highway, Mishawaka,  
Indiana 46545

**PENN-HARRIS-MADISON  
SCHOOL CORPORATION**

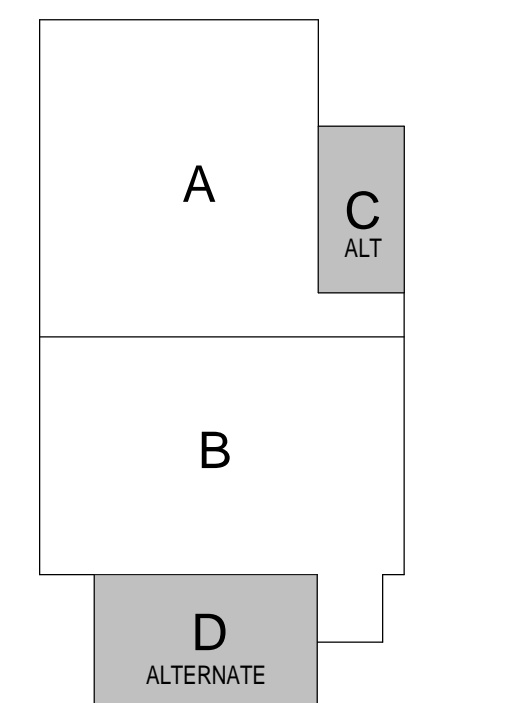


**ARCHITECT**



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350 E NEW YORK ST #300, INDIANAPOLIS, IN 46204



## KEY PLAN

## CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS  
DRAWN BY: CDT  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 1.13.2024

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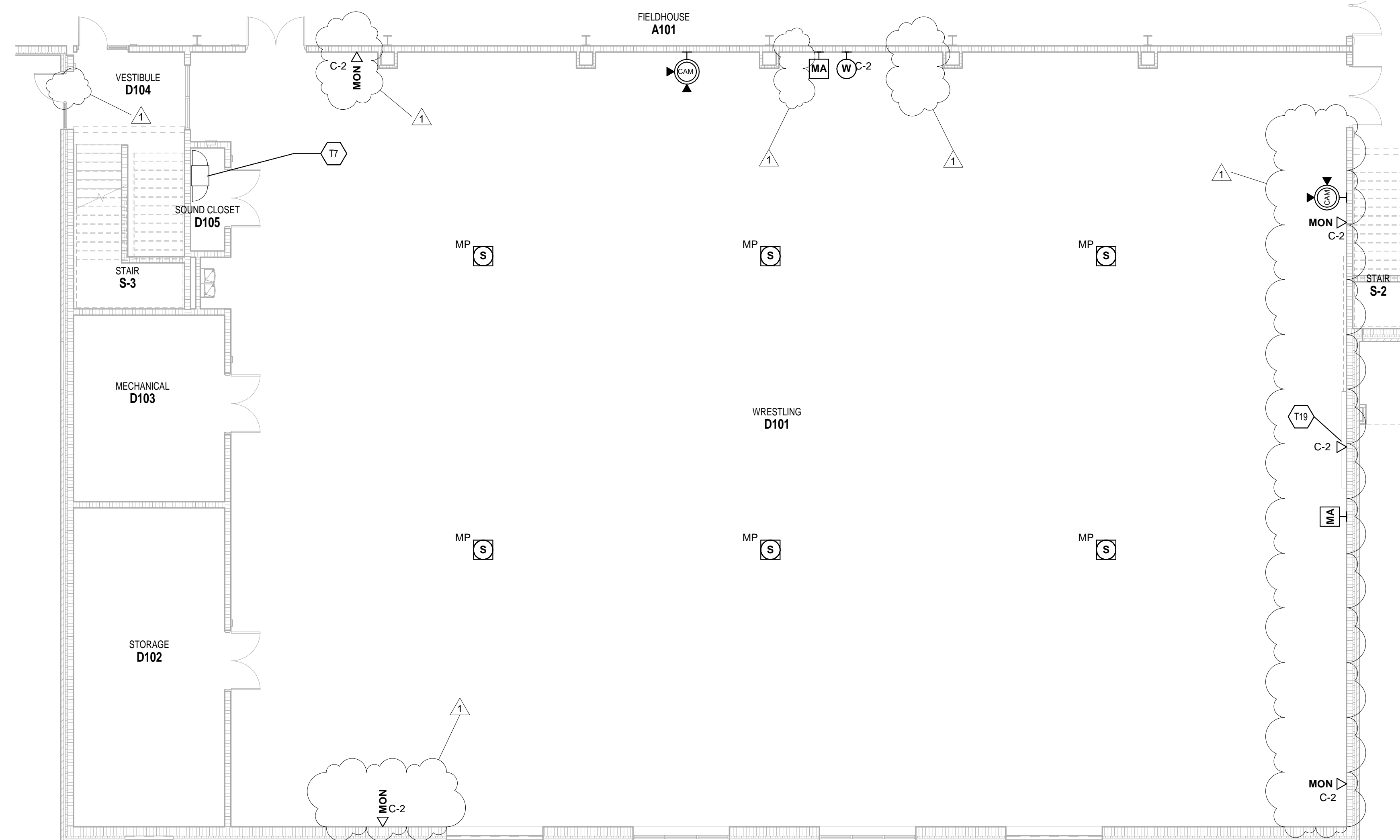
FIRST FLOOR TECHNOLOGY PLAN -  
UNIT C & D ALT

**T-11C**

## TECHNOLOGY PLAN NOTES

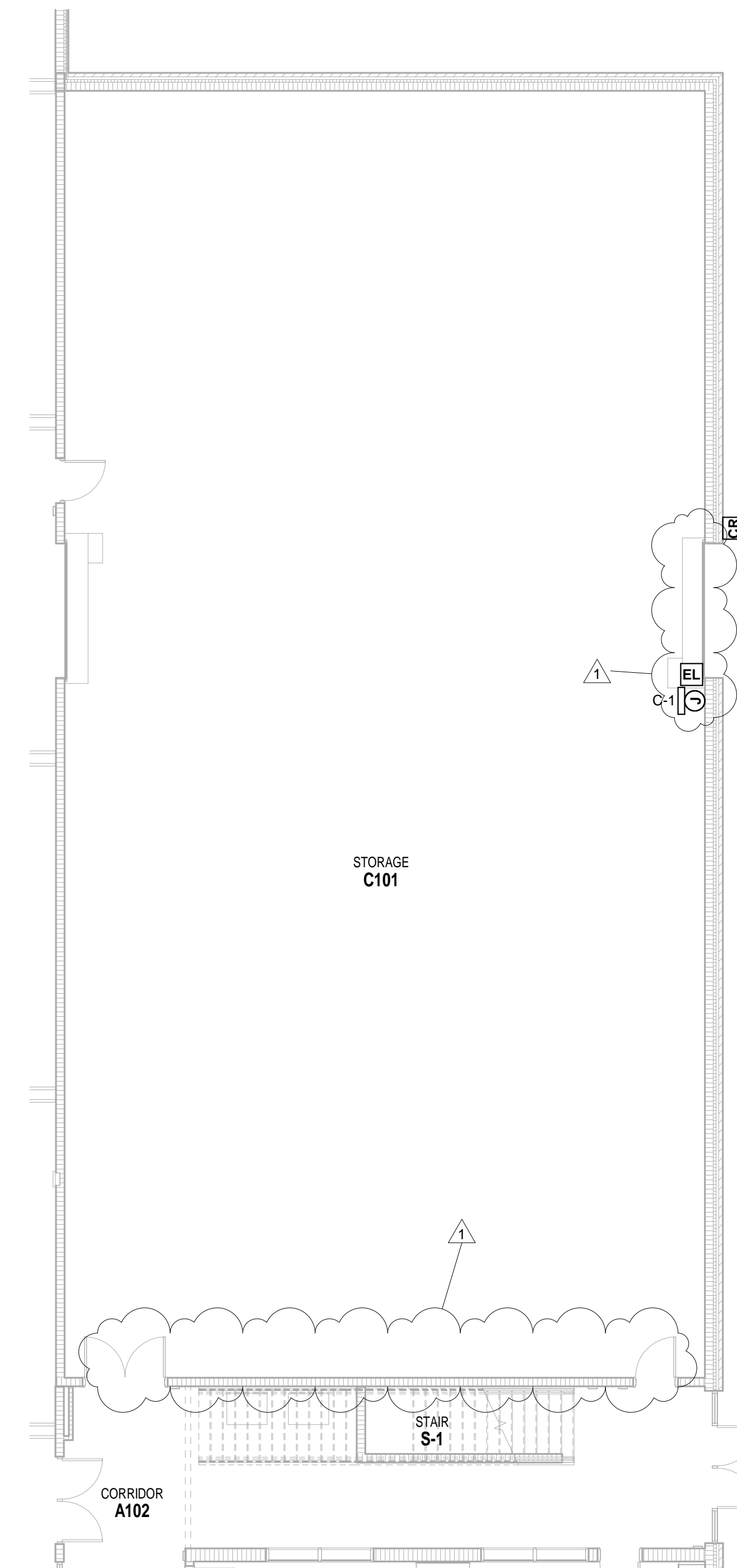
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#	NOTE
T7	SEE DETAIL 2/T-503 FOR WRESTLING AND DANCE ROOM SOUND SYSTEMS.
T19	COORDINATE WITH ELECTRICAL AND GENERAL CONTRACTOR ON SCOREBOARD CABLE TERMINATIONS.



**2 FIRST FLOOR TECHNOLOGY PLAN - UNIT D ALTERNATE**  
SCALE: 1/8" = 1'-0"

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



**1 FIRST FLOOR TECHNOLOGY PLAN - UNIT C ALTERNATE**  
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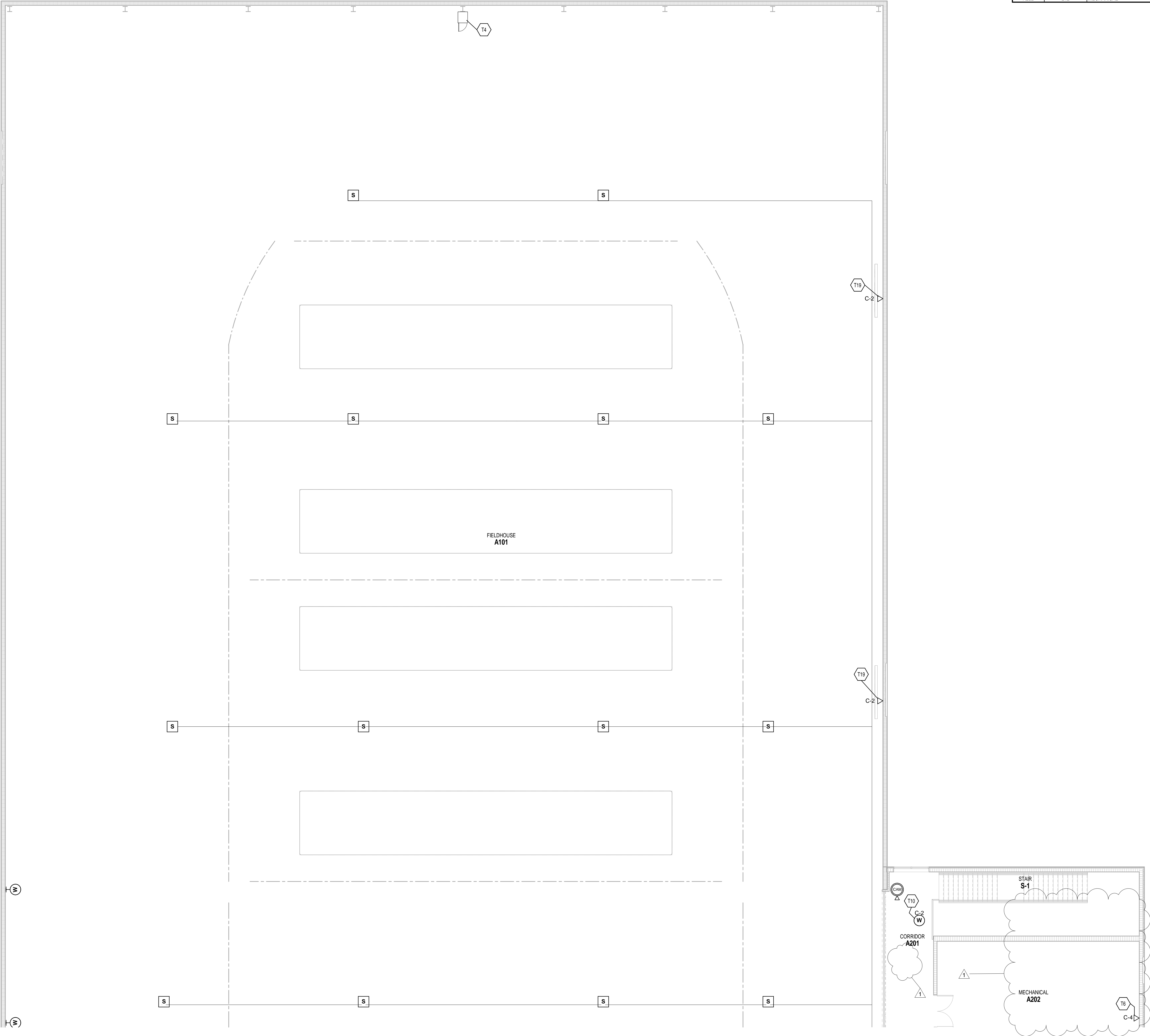
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VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
A101	102	FIELDHOUSE	54239 SF
A102	-	CORRIDOR	328 SF
S-1	STAIR 2	STAIR	81 SF
A201	-	CORRIDOR	341 SF
A202	212	MECHANICAL	873 SF

#### TECHNOLOGY PLAN GENERAL NOTES

- A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.
- B. CAT6A PATCH CORDS TO BE PROVIDED BY OTHERS.
- C. NETWORK EQUIPMENT AND WIRELESS ACCESS POINTS TO BE PROVIDED BY OWNER. INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLING BY DIVISION 27 CONTRACTOR.
- D. CLASSROOM PROJECTORS AND SOUND REINFORCEMENT KITS TO BE PROVIDED TURNKEY BY THE DIVISION 27 CONTRACTOR. DIV 27 IS RESPONSIBLE FOR INSTALLATION AND TERMINATION OF ALL CONNECTIVITY WIRING NEEDED AS SHOWN ON DETAILS.
- E. ACCESS CONTROL IS ROUGH-IN WIRING ONLY AS SHOWN ON DETAILS. KANTECH SYSTEM EQUIPMENT AND PROGRAMMING TO BE PROVIDED BY OTHERS. (WIRELESS TECHNOLOGY SOLUTIONS)
- F. DOOR CONTACTS AND WIRING TO BE PROVIDED BY DOOR HARDWARE (867100) CONTRACTOR.
- G. VIDEO SURVEILLANCE EXAMVISION CAMERAS TO BE PROVIDED BY OTHERS. (WIRELESS TECHNOLOGY SOLUTIONS) INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLING BY DIVISION 27 CONTRACTOR. FIELDHOUSE FLOOR BOSES WILL HAVE ONE EMPTY CONDUIT TO EACH ONE FOR FUTURE TECH CABLES.
- H.

#### TECHNOLOGY PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- # NOTE
- T4 LOCATION OF TR EQUIPMENT CABINET(S), SWITCHES AND UPS ETC. REFERENCE TO DETAIL 217-503 FOR MORE INFORMATION.
- T6 PROVIDE CABLES FOR TEMP. CONTROL PANELS. VERIFY EXACT LOCATION WITH TEMP. CONTROL CONTRACTOR.
- T10 PROVIDE CATEGORY 6A DATA FOR WIRELESS ACCESS POINTS. PROVIDE 20FT. SLACK LOOP COILED NEATLY AND SUPPORTED ABOVE THE CEILING. TERMINATE CABLES AND TEST PER SPECIFICATIONS. NOTE LOCATION ON RECORD DRAWINGS AND MARK LOCATION ON CEILING GRID WITH BLUE DOT. SLACK LOOP NOT NECESSARY FOR LOCATIONS WITH CONDUIT SUCH AS GYMNASIUMS.
- T19 COORDINATE WITH ELECTRICAL AND GENERAL CONTRACTOR ON SCOREBOARD CABLE TERMINATIONS.

#### VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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## PENN HIGH SCHOOL FIELDHOUSE

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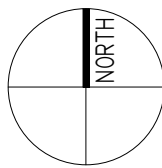
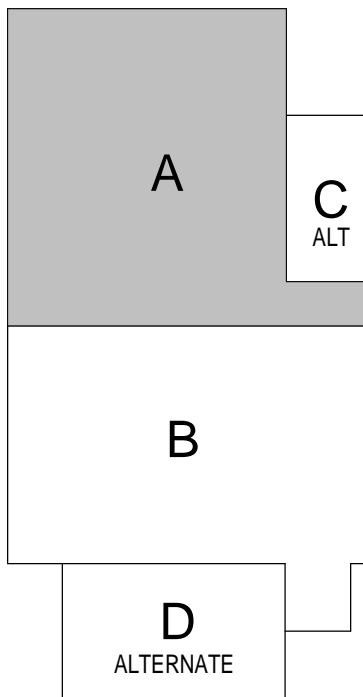
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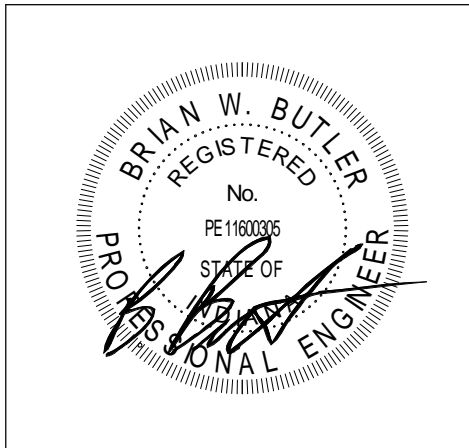
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#### KEY PLAN

#### CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS  
DRAWN BY: CDT  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 1/13/2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1/26/2024

#### SECOND FLOOR TECHNOLOGY PLAN - UNIT A

# T-12A

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
B209	208	LOCKER ROOM #4	402 SF
B210	207	CLASSROOM	842 SF
B211	206	CUSTODIAN	67 SF
B212	205	TOILET	63 SF
B213	204	TOILET	63 SF
B214	203	ELECTRICAL / TECHNOLOGY	56 SF
B215	202	ELEVATOR EQUIPMENT	55 SF
B216	201	CLASSROOM	840 SF
B217	-	COMMONS	984 SF
S-2	STAIR 1	STAIR	175 SF

DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHERS (ELECTRICAL, MECHANICAL, CASWORK/ARCHITECTURAL FEATURES AND OTHERS) PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL DRAWINGS AND OTHERS, TRADES, AND EQUIPMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL CONTRACTOR.

C. CAT5 PATCH PANELS TO BE PROVIDED BY OTHERS. NETWORK CABLES TO BE PROVIDED BY OTHERS. THE CONTRACTOR IS TO BE PROVIDED BY OWNER, INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLEING BY DIVISION 27 CONTRACTOR.

D. CLASSROOM PROJECTORS AND SOUND REINFORCEMENT KITS TO BE PROVIDED TURKEY BY THE DIVISION 27 CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND TERMINATION OF ALL CONNECTIVITY WIRING NEEDED FOR DETAILS.

E. ACCESS CONTROL & ROUGH-IN WIRING ONLY AS SHOWN ON DETAILS. KANTESH SYSTEM EQUIPMENT AND ACCESSORIES TO BE PROVIDED BY OTHERS, (ELECTRICAL TECHNOLOGY SOLUTIONS).

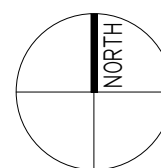
F. DOOR CONTACTS AND WIRING TO BE PROVIDED BY DOOR CONTRACTOR.

G. VIDEO SURVEILLANCE (WIRELESS CAMERA) TO BE PROVIDED BY OTHERS. (WIRELESS TECHNOLOGY SOLUTIONS). INSTALLATION, LABELING AND TESTING OF FIELDING CABLE BY DIVISION 27 CONTRACTOR.

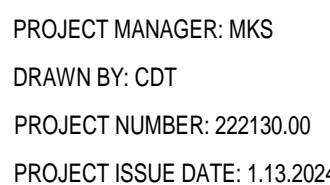
H. FLEETHOUSE FLOOR BOIES WILL HAVE ONE EMPTY SPACE FOR FLOOR BOIES TO BE PROVIDED BY OTHERS.

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## CONSTRUCTION DOCUMENTS



# T-12B

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



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A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH THE ARCHITECT AND THE OWNER. CASEWORK ARCHITECTURAL FEATURES AND OTHER DEVICES PRIOR TO ROUGH-IN. RELOCATION OF DEVICES SHALL BE REQUIRED DUE TO THE NEED FOR ELECTRICAL DRAWINGS AND OTHER TRADES. ANY RELOCATIONISTS SHALL BE THE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

B. CATCH PATCH CORDS TO BE PROVIDED BY OTHERS. POWER EQUIPMENT AND CABLES TO BE PROVIDED BY OTHERS. INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLE BY DIVISION 27 CONTRACTOR.

C. CLASSROOM PROJECTORS AND SOUND REINFORCEMENT SYSTEMS TO BE PROVIDED BY OTHERS. CONTRACTOR, DIV 27 IS RESPONSIBLE FOR INSTALLATION AND TERMINATION OF ALL CONNECTIVITY WIRING NEEDED AS SHOWN ON DETAILS.

D. ACCESS CONTROL IS ROUGH-IN WIRING ONLY AS SHOWN ON DETAILS. KANTCHEY SYSTEM EQUIPMENT AND CABLES TO BE PROVIDED BY OTHERS. WIRELESS TECHNOLOGY SOLUTIONS.

E. ACCESS AND WIRING TO BE PROVIDED BY DOOR HARDWARE 09110 CONTRACTOR.

F. VIDEO SURVEILLANCE EXAMINATION CAMERAS TO BE PROVIDED BY OTHERS. VIDEO TECHNOLOGY SOLUTIONS (INSTALLATION, TERMINATION, LABELING AND TESTING OF CABLE BY DIVISION 27 CONTRACTOR).

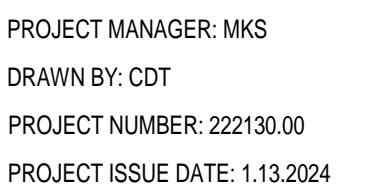
G. SECURITY FLOOR SHALL BE PROVIDED BY OTHERS. CONDUIT TO EACH ONE FOR FUTURE TIE BACK CABLES.

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## CONSTRUCTION DOCUMENTS



## SECOND FLOOR TECHNOLOGY PLAN

### - UNIT D ALT

**VERIFICATION NOTE**

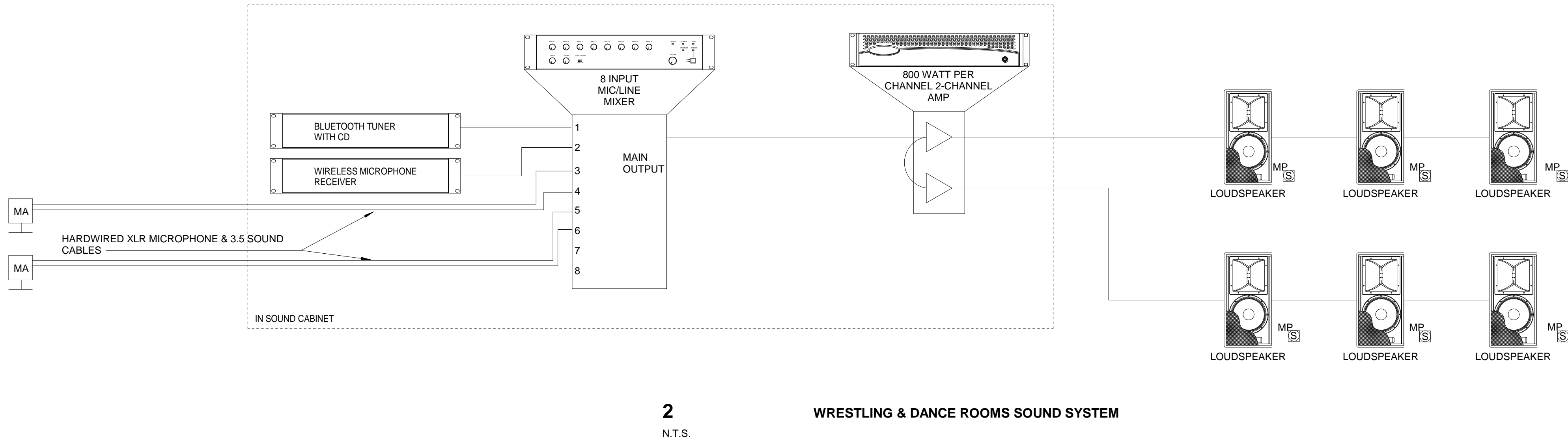
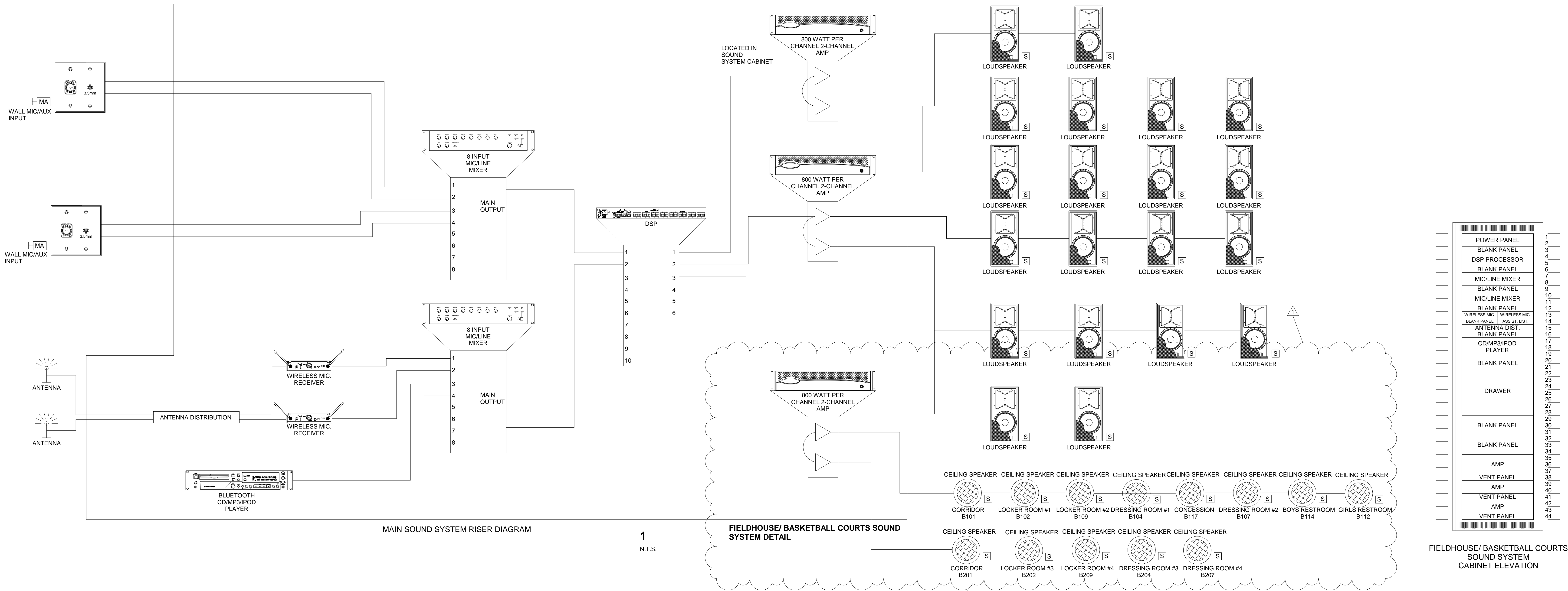
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SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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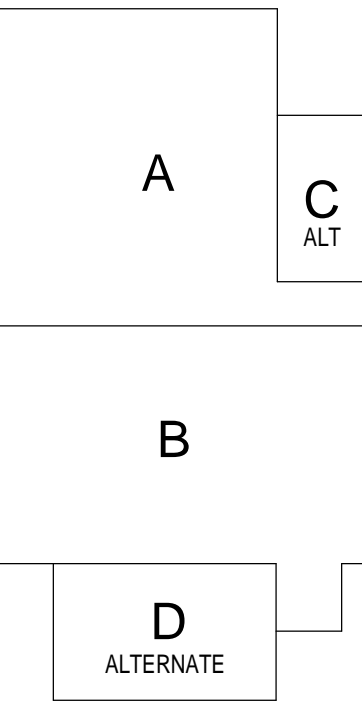
PENN-HARRIS-MADISON SCHOOL CORPORATION



ARCHITECT

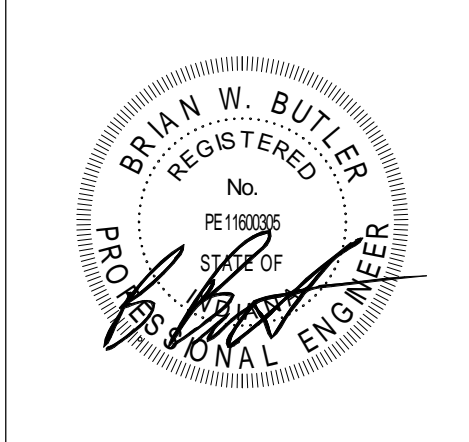
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KEY PLAN

CONSTRUCTION DOCUMENTS



PROJECT MANAGER: MKS  
DRAWN BY: CDT  
PROJECT NUMBER: 222130.00  
PROJECT ISSUE DATE: 1/13/2024

REV. NO.	DESCRIPTION	DATE
1	Addendum #1	1/26/2024

TECHNOLOGY DETAILS

T-503