

Project Name: Pattengill - Bid Package 2 – Footings & Foundations
Project No.: 221125-190
Architect: Kingscott
Date: 4/12/24

Bid Package No.: 2
Bid Due Date: 4/18/2024 @ 2:00PM

This Addendum is issued to inform the bidders of modifications in the scope of work being bid for this project.

A. Documents included in this Addendum:

- Kingscott Addendum 2 Writeup
- Updated Work Scopes
 - WC 10 – Structural Concrete
 - Add Specific Note and Detail #3
 - Provide and install concrete footings and foundations that were changed from CMU to concrete in BP2 addendum #2. Include all accessories for a complete installation, including but not limited to steel reinforcement and steel embeds.
 - WC 11 – Masonry
 - Add Specific Notes & Details #1 A.
 - Provide and install brick assembly including but not limited to brick, weeps, vents, mortar net, spray foam insulation, flashing, termination bar, grout, drip edge, cast stone sills, backer rod/caulking, lintels, and brick ties.
 - Add Related Work by Others #2
 - CMU foundations changed to concrete foundations per BP2 addendum #2, concrete foundations by WC 10.

B. Other modifications:

- Remove Scope Clarification Diagram Detail 6/S2.0.

C. Bids are due 4/18/2024 @ 2:00PM.

- **Include in your bid the increase or decrease for all materials, labor, supervision, overhead and profit required to properly and completely execute the work described in this Addendum.**
- **Acknowledge receipt of this Addendum on the Bid Proposal Form.**

The applicable provisions of the Contract Documents shall govern all work included herein unless specifically noted otherwise.

END OF ADDENDUM NO. [2]

Date: April 11, 2024
Project: Pattengill Modular Classroom Building
Owner: Lansing School District
Location: Lansing, MI
A/E #: 2616.05

ADDENDUM NO. 2

SPECIAL NOTE:

The Notice to Bidders, Instructions to Bidders, General Conditions of the Contract for Construction, Supplementary Conditions of the Contract for Construction, and all modifications and previously issued Contract Documentation are a part of this Addendum.

SCOPE OF WORK:

The following items are changes, additions, deletions, clarifications and/or errors and omissions in plans & specifications and shall be considered by each Bidder in making up and submitting their proposal. All items shall be considered a part of the Contract Documents.

NOTICE TO ALL BIDDERS:

All Bidders shall take note of all items covered by this Addendum. Each Bidder shall review the total scope of his responsibilities with respect to his contract work and his interface with the work of others, as well as his required interface with their work.

ARCHITECTURAL/ STRUCTURAL:

ATTACHMENTS: G0.1, A3.1, A4.1, S0.1, S1.0, S2.0, MODULAR DRAWINGS (FOR REFERENCE)

Drawings (General/ Architectural):

G0.1 Title Sheet

- Updated sheet index to include Architectural sheets.

A3.1 Exterior Elevations

- Exterior Elevations Sheet added.

A4.1 Wall Sections

- Wall Sections Sheet added.

Drawings (Structural):

S0.1: Structural Notes and Special Inspections

- Design Criteria updated to listed the design loads provided by the pre-manufactured unit supplier. Note that the supplier declined to provide reactions itemized for each load case as is customary with delegated design packages. Therefore, RDA has had to make assumptions in the design revisions to the foundations and take no responsibility for the adequacy of any pre-manufactured unit design or construction.

S1.0: Foundation and Lintel Framing Plans

- 1/S1.0 “Foundation Plan” added disclaimer stating the pre-manufactured unit supplier has declined to provide necessary reactions and RDA waives any responsibility for pre-manufactured unit design.
- 1/S1.0 “Foundation Plan” adjust footing sizes and locations based on updated pre-manufactured unit plans provided. Also changed from reinforced CMU foundations to reinforced concrete foundations and added a portion of backfilled area within the crawl space below water meter room (Detail 3/S1.0).

S2.0: Sections and Details

- 1/S2.0, revised section from reinforced CMU foundations to reinforced concrete foundations.
- 2/S2.0, revised section from reinforced CMU foundations to reinforced concrete foundations.
- 3/S2.0, revised detail from reinforced CMU to reinforced concrete.
- 4/S2.0, revised detail from reinforced CMU to reinforced concrete.
- 5/S2.0, revised detail from reinforced CMU to reinforced concrete, and added ventilation louvers.
- 6/S2.0, revised detail from reinforced CMU to reinforced concrete.
- 13,14,15/S2.0, removed typical CMU details and provided additional typical concrete details.

Drawings (Modular):

Attached are the modular drawings provided for the Modular scope of work, for reference for coordination as needed only.



PATTENGILL MODULAR CLASSROOM BUILDING

LANSING SCHOOL DISTRICT

EARLY FOUNDATION WORK BP#2
03.22.2024



**PATTENGILL MODULAR
CLASSROOM BUILDING**

LANSING SCHOOL DISTRICT

815 North Fairview Avenue, Lansing, MI

DIRECTORY

CLIENT:

LANSING SCHOOL DISTRICT
519 WEST KALAMAZOO ST
LANSING, MI
P. (517) 755-1000

ARCHITECT & CIVIL ENGINEER:

KINGSCOTT ASSOCIATES INC.
254 E MICHIGAN AVE, SUITE 308
KALAMAZOO, MI 49007
TEL. (800) 692-7815

CONSTRUCTION MANAGER:

THE CHRISTMAN COMPANY
208 N CAPITOL AVENUE
LANSING, MI 48933
P. (517) 482-1488

STRUCTURAL ENGINEER:

ROBERT DARVAS ASSOCIATES
440 S MAIN ST
ANN ARBOR, MI 48104
P. (734) 761-8713

MEP ENGINEER:

SES ENGINEERING
4200 WEST 11 MILE ROAD
BERKLEY, MI 48072
(248) 398-1900

TECHNOLOGY:

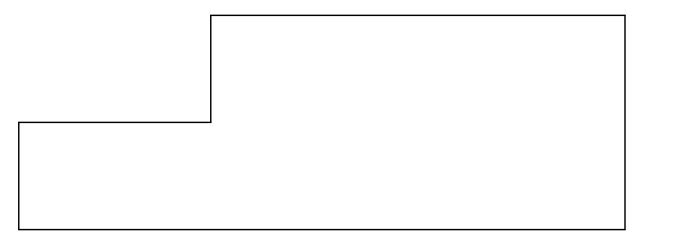
BARTON MALOW
26500 AMERICAN DR
SOUTHFIELD, MI 48034
(248) 436-5000

SHEET INDEX:

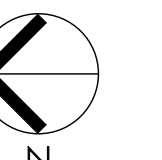
NO.	NAME
G0.1	TITLE SHEET
CIVIL - BP01 - FOR REFERENCE	
C0.0	COVER
C1.0	TOPOGRAPHICAL SURVEY
C2.0	EXISTING CONDITIONS & DEMOLITION PLAN
C4.0	UTILITY PLAN
C5.0	STORMWATER MANAGEMENT DETAILS
C6.0	SITE LAYOUT PLAN
C7.0	DETAILS AND SPECIFICATIONS
C8.0	GRADING PLAN
C8.1	GROUND IMPROVEMENTS
C9.0	SOIL EROSION AND SEDIMENTATION CONTROL PLAN
STRUCTURAL-BP 02	
S0.1	STRUCTURAL NOTES AND SPECIAL INSTRUCTIONS
S1.0	FOUNDATION AND LINTLE FRAMING PLANS
S2.0	SECTIONS AND DETAILS
ARCHITECTURAL - BP 02	
A3.1	EXTERIOR ELEVATIONS
A4.1	WALL SECTIONS
MODULAR - FOR REFERENCE	
A0.0	COVER SHEET
A0.1	SPECIFICATIONS
A1.0	EXTERIOR ELEVATIONS
A2.1	FLOOR PLAN
A2.2	PRODUCTION FLOOR PLAN MOD 1-9
A2.3	PRODUCTION FLOOR PLAN MOD 10
A2.4	PRODUCTION FLOOR PLAN MOD 11-18
A3.1	REFLECTIVE CEILING PLAN
A4.1	SEAM CLOSURE FLOOR PLAN
E2.1	ELECTRICAL PLAN
E3.1	JUNCTION BOX PLAN
E4.1	ELECTRICAL SCHEDULE
M2.1	MECHANICAL PLAN
M3.1	DUCT DETAILS
P2.1	DWV SCHEMATICS
P3.1	SUPPLY SCHEMATICS
S0.0	SUGGESTED BLOCKING PLAN
S1.1	GROSS SECTION
S2.1	FRAME PLATE
S3.1	FLOOR FRAMING PLAN
S4.1	WALL FRAMING ELEVATIONS
S4.2	WALL FRAMING ELEVATIONS
S5.1	ROOF FRAMING PLAN
S5.2	ROOFTOP PLAN
S5.3	W10x22 MATE BEAM DETAILS



ISSUANCES	DATE
EARLY FOUNDATION WORK BP#2	03.22.2024
ADDENDUM 02	04.11.2024



KEY PLAN



JOB NO. 2616.05

SHEET TITLE
TITLE SHEET

SHEET NO.

G0.1

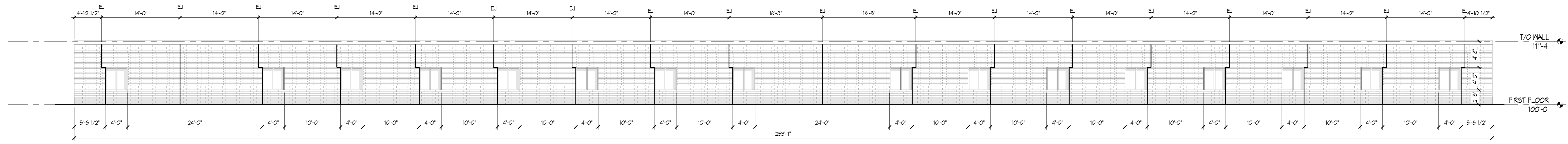
THESE DRAWINGS AND THE WORK REPRESENTED THEREIN ARE THE PROPERTY OF KINGSCOTT ASSOCIATES INC. AND ARE NOT TO BE USED OR REPRODUCED WITHOUT PERMISSION. KINGSCOTT ASSOCIATES INC. 254 E MICHIGAN AVE, SUITE 308, KALAMAZOO, MI 49007



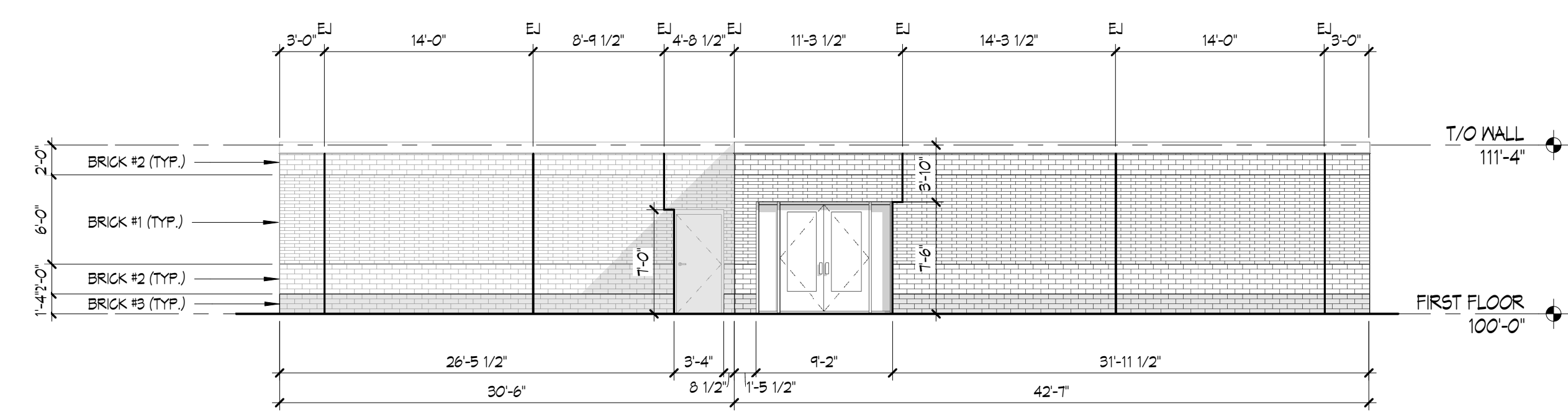
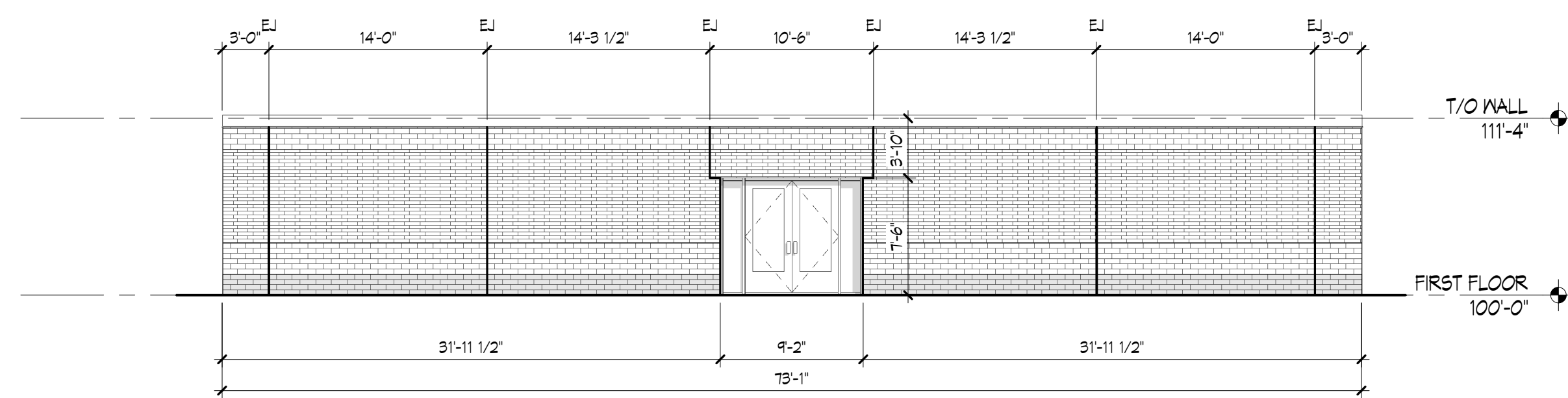
PATTENGILL MODULAR CLASSROOM BUILDING

LANSING SCHOOL DISTRICT

815 North Fairview Avenue, Lansing, MI

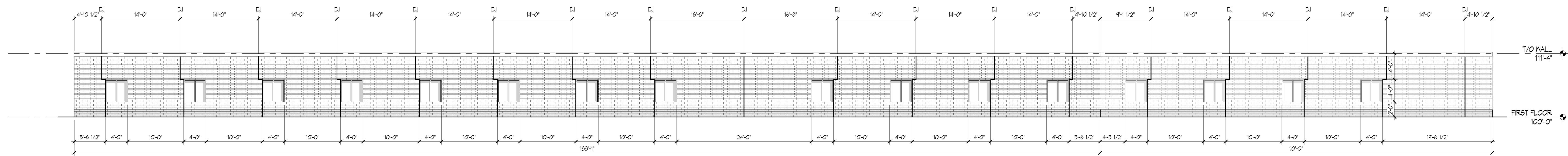


4 WEST ELEVATION
1/8" = 1'-0"



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

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



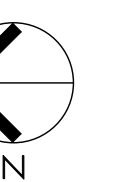
1 EAST ELEVATION
1/8" = 1'-0"



ISSUANCES	DATE
ADDENDUM 02	04.11.2024



KEY PLAN



JOB NO. 2616.05
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NO.
A3.1

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PATTENGILL MODULAR CLASSROOM BUILDING

LANSING SCHOOL DISTRICT

815 North Fairview Avenue, Lansing, MI



ISSUANCES ADDENDUM 02 DATE 04.11.2024



KEY PLAN



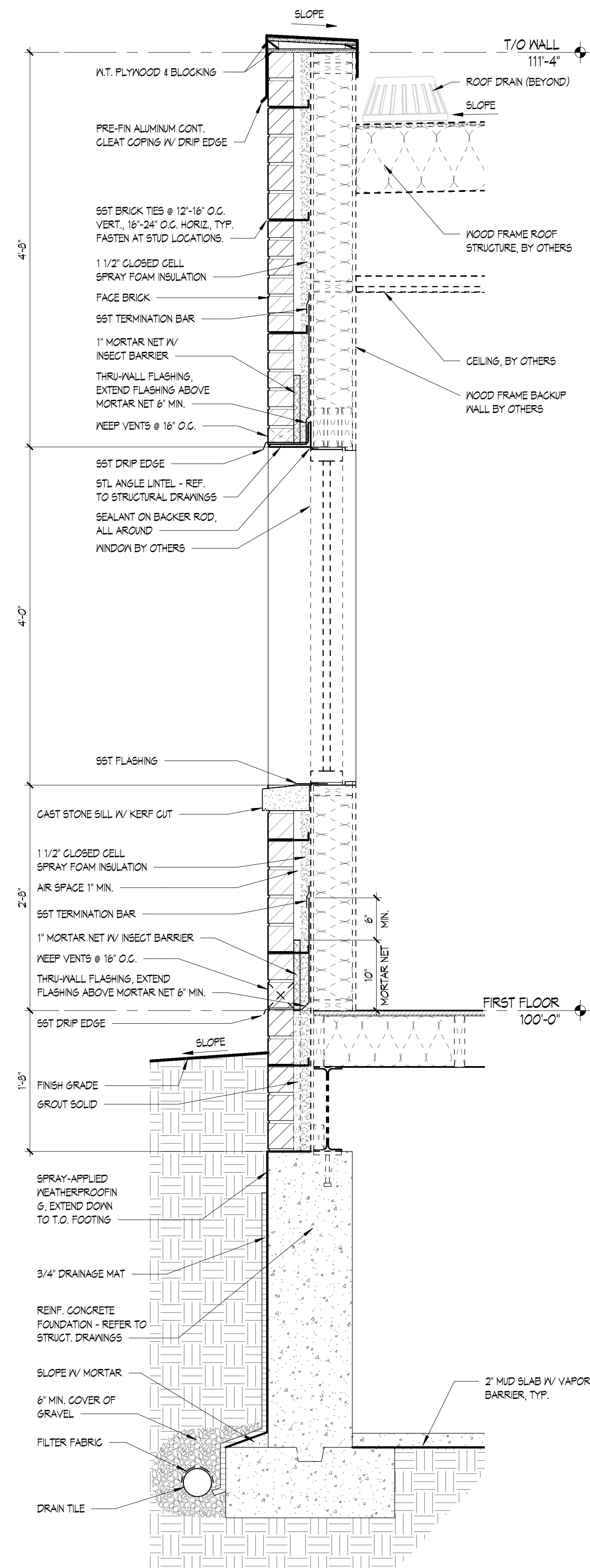
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SHEET TITLE
WALL SECTIONS

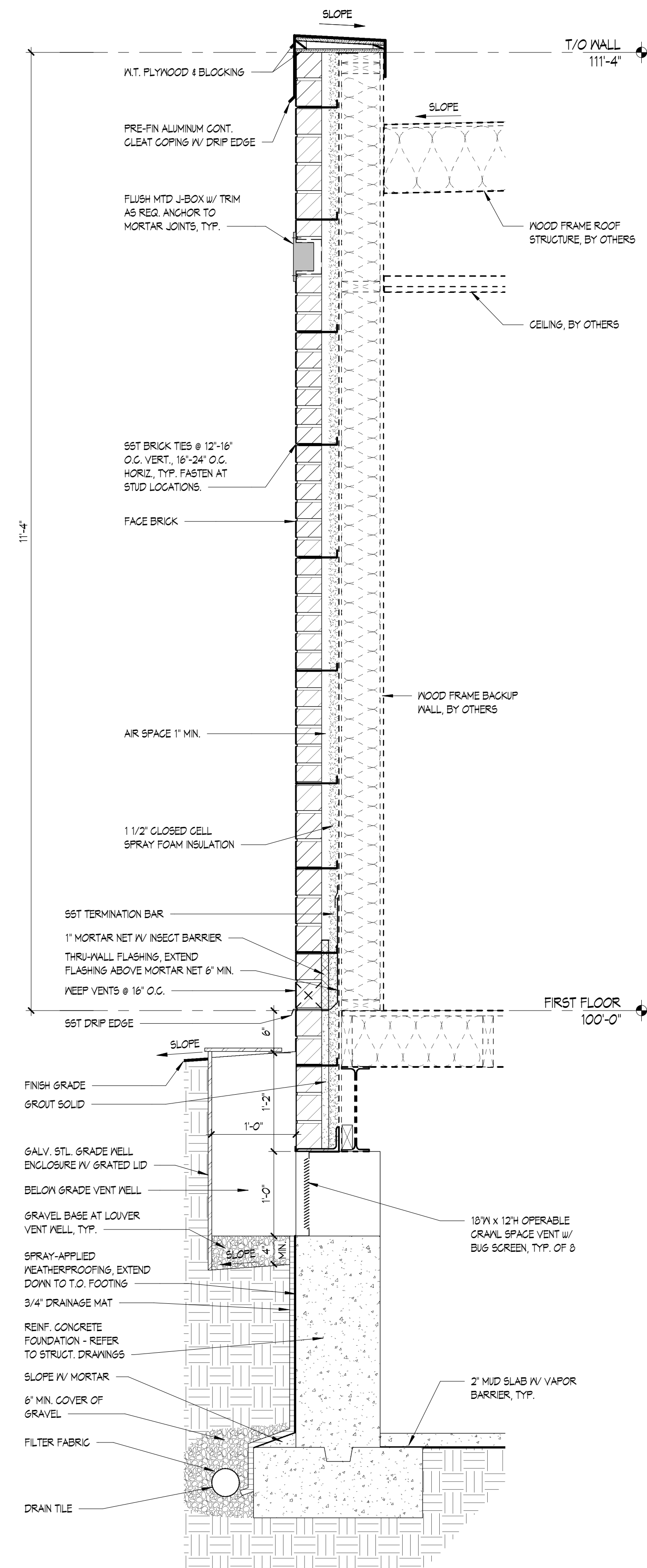
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A4.1

KINGSCOTT ASSOCIATES INC. KALAMAZOO, MICHIGAN



2 TYPICAL WALL SECTION @ WINDOW
1" = 1'-0"



1 WALL SECTION @ CRAWL SPACE VENT
1" = 1'-0"

THESE DRAWINGS AND THE WORK REPRESENTED THEREIN ARE THE PROPERTY OF KINGSCOTT ASSOCIATES INC. AND ARE NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION. 04/11/2024
C:\Users\michael\Documents\25_Pattengill Modular Expansion_Arch_2023\mwall02.dwg

STRUCTURAL NOTES

GENERAL

- THESE NOTES ARE TO BE READ IN CONJUNCTION WITH THE DRAWINGS AND THE WRITTEN SPECIFICATIONS. IN THE EVENT OF CONFLICT BETWEEN THE INFORMATION ON THE WRITTEN SPECIFICATIONS, THE DRAWINGS, AND THESE NOTES, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETED STRUCTURE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING DURING CONSTRUCTION TO ACCOUNT FOR ALL FORCES, INCLUDING BUT NOT LIMITED TO GRAVITY, WIND, EARTH PRESSURE, AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCES, AND JOB SAFETY.
- THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION METHODS WILL NOT CAUSE DAMAGE TO ADJACENT BUILDINGS, UTILITIES, OR OTHER PROPERTIES.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK, AS WELL AS ANY OTHER APPLICABLE TRADES. NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES AND/OR INTERFERENCES IMMEDIATELY.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK. CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND BE RESPONSIBLE FOR SAME.
- IN CASES OF CONFLICT BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND OTHER DISCIPLINES OR EXISTING CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AND OBTAIN CLARIFICATION PRIOR TO BIDDING AND/OR PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES. THE DRAWINGS DO NOT SHOW ALL OPENINGS REQUIRED. ADDITIONAL OPENINGS, BLOCKOUTS, AND SLEEVES MAY BE REQUIRED BY OTHER DISCIPLINES. OPENINGS REQUIRED BUT NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- APPLY DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL, TITLE, OR NOTE.
- DO NOT SCALE DRAWINGS. ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS.
- ISOMETRIC VIEWS, IF INCLUDED, ARE TO GIVE A GENERAL SENSE OF THE STRUCTURE AND MASSING. THEY DO NOT SUPERSEDE THE STRUCTURAL DRAWINGS AND ARE PROVIDED AS SUPPLEMENTAL INFORMATION ONLY. THE STRUCTURE SHALL BE PROVIDED PER THE STRUCTURAL DRAWINGS, DETAILS, NOTES, AND SPECIFICATIONS.
- CENTERLINES OF FOUNDATIONS COINCIDE WITH COLUMN LOCATIONS, UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL OBTAIN COPIES OF THE LATEST CONTRACT DOCUMENTS INCLUDING ALL BULLETINS AND ADDENDA, AND SHALL PROVIDE THE RELEVANT PORTIONS TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTAL OF SHOP DRAWINGS, FABRICATION, AND ERECTION OF STRUCTURAL MEMBERS.
- STRUCTURAL ENGINEER OF RECORD'S ACCEPTANCE MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS.
- NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE REDUCED IN STRENGTH UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
- THE GENERAL CONTRACTOR IS TO PROVIDE AN APPROPRIATE NUMBER OF COPIES OF ONE COMPLETE COORDINATED DRAWING SET SHOWING ALL SLEEVES, CONDUITS, BLOCKOUTS, DUCT OPENINGS, ETC. AS REQUIRED FOR ALL TRADES FOR THE STRUCTURAL ENGINEER OF RECORD'S APPROVAL. THIS SHALL BE DONE A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTING AFFECTED SLABS, BEAMS, WALLS, COLUMNS, OR FOOTINGS.
- SUPPORT DETAILS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING EQUIPMENT IS BASED UPON AVAILABLE INFORMATION OF MANUFACTURER. CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ACTUAL EQUIPMENT SUPPLIED WITH DETAILS AND SHALL PROVIDE ANY ADDITIONAL FRAMING REQUIRED.
- PERIODIC SITE OBSERVATION VISITS MAY BE PROVIDED BY THE ARCHITECT/ENGINEER. THE SOLE PURPOSE OF THESE OBSERVATIONS IS TO REVIEW THE GENERAL CONFORMANCE OF THE CONSTRUCTION WITH THE CONTRACT DOCUMENTS. THESE LIMITED OBSERVATIONS SHALL NOT BE CONSIDERED AS CONTINUOUS OR EXHAUSTIVE INVESTIGATIONS TO VERIFY THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

REFERENCED CODES AND STANDARDS

- PERFORM ALL CONSTRUCTION IN CONFORMANCE WITH THE LATEST EDITIONS OF THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE CONTRACT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS. LATEST EDITIONS AS REFERENCED IN THE CURRENT BUILDING CODE IN THE STATE OF THE PROJECT, UNLESS NOTED OTHERWISE.
 - 2018 MICHIGAN BUILDING CODE
 - ASCE 7, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 - ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
 - ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - TMS 402/602, BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES
 - HOT AND COLD WEATHER MASONRY CONSTRUCTION BY THE MASONRY INDUSTRY COUNCIL
 - AISS 303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES
 - AISS 303, SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

DESIGN CRITERIA

- GENERAL
 - CONCRETE DESIGN LFRD
 - STEEL DESIGN LFRD
 - RISK CATEGORY III
- DEAD LOADS (PER UNIT MANUFACTURER)
 - CORRIDOR 10.0 PSF
 - CLASSROOMS 10.0 PSF
 - ROOF 10.0 PSF
- LIVE LOADS (PER UNIT MANUFACTURER)
 - CORRIDOR 100.0 PSF
 - CLASSROOMS 50.0 PSF
 - ROOF 30.0 PSF
- SNOW LOADS (NOT PROVIDED BY MANUFACTURER)
 - GROUND SNOW LOAD 30.0 PSF
 - SNOW EXPOSURE FACTOR (C_s) 0.9
 - SNOW IMPORTANCE FACTOR (I_s) 1.1
 - THERMAL FACTOR (C_t) 1.0
 - FLAT ROOF SNOW LOAD (P_f) 21.0 PSF
 - MINIMUM SNOW LOAD (P_{min}) 22.0 PSF
- WIND LOADS (NOT PROVIDED BY MANUFACTURER)
 - BASIC WIND SPEED (V) 115 MPH
 - EXPOSURE CATEGORY B
 - (SEE WIND LOAD DIAGRAMS)
- SEISMIC LOADS (NOT PROVIDED BY MANUFACTURER)
 - SEISMIC SITE CLASS D
 - DESIGN SPECTRAL ACCELERATION (S_{DS}) 0.098
 - DESIGN SPECTRAL ACCELERATION (S_{DI}) 0.074
 - SEISMIC DESIGN CATEGORY B
 - SEISMIC IMPORTANCE FACTOR (I_e) 1.25
 - WOOD WALLS SHEATHED WITH WOOD PANELS (R) 6.5
 - SEISMIC RESPONSE COEFFICIENT (C_s) 0.018
- PRE-MANUFACTURED UNIT SUPPLIER DECLINED TO PROVIDE REACTIONS (ITEMIZED FOR EACH LOAD CASE (DEAD, LIVE, ROOF LIVE, SNOW, WIND (N-S, E-W, AND UPLIFT), AND SEISMIC (N-S, E-W, AND UPLIFT), ASSUMPTIONS WERE THEREFORE MADE TO DESIGN FOUNDATIONS, SUPPLIER TO PROVIDE FINAL ENGINEERED PLANS, SECTIONS, AND DETAILS, WITH CALCULATIONS, ALL SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MICHIGAN AS A SEPARATE DELEGATED DESIGN PACKAGE FOR WHICH ROAD TAKES NO RESPONSIBILITY FOR THE ADEQUACY OF ANY PRE-MANUFACTURED UNIT DESIGN OR CONSTRUCTION.

SUBMITTALS

- THE CONTRACTOR SHALL SUBMIT FOR ARCHITECT/ENGINEER REVIEW A SCHEDULE WHICH DETAILS THE ESTIMATED QUANTITY OF SUBMITTALS AND THE DATE THEY WILL BE RECEIVED, AT LEAST TWENTY (20) WORKING DAYS PRIOR TO THE FIRST SUBMITTAL. THE SCHEDULE SHOULD ACCOUNT FOR AT LEAST TEN (10) WORKING DAYS OF REVIEW TIME BY THE ARCHITECT/ENGINEER FOR EACH SUBMITTAL.
- SHOP DRAWINGS AND/OR DETAILS THAT ARE PREPARED FROM REPRODUCTIONS OF THE STRUCTURAL ENGINEER OF RECORD'S DESIGN DOCUMENTS, IN WHOLE OR IN PART, SHALL NOT BE USED AND WILL BE REJECTED.
- THE ARCHITECT/ENGINEER MAY RETURN, WITHOUT COMMENT, SUBMITTALS WHICH THE CONTRACTOR HAS NOT STAMPED OR WHICH DO NOT MEET THE PROJECT REQUIREMENTS.
- THE CONSTRUCTION, MANUFACTURE, AND/OR FABRICATION OF ANY ITEMS PRIOR TO THE ARCHITECT/ENGINEER REVIEW WILL BE ENTIRELY AT THE RISK OF THE CONTRACTOR.
- ARCHITECT/ENGINEER'S REVIEW IS FOR GENERAL CONFORMANCE AND COMPLIANCE WITH THE DESIGN CONCEPT AND CONTRACT DOCUMENTS. ANY ACTION NOTED DOES NOT WAIVE ANY REQUIREMENT OF CONTRACT DOCUMENTS, COORDINATION OF TRADES, AND SATISFACTORY PERFORMANCE OF THEIR WORK WHICH ARE THE CONTRACTOR'S COMPLETE RESPONSIBILITY.
- FOR COMPONENTS THAT REQUIRE A SPECIALTY ENGINEER, THE SUBMITTAL SHALL BE SEALED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN. "SPECIALTY ENGINEER" IS DEFINED AS THE STRUCTURAL ENGINEER EMPLOYED BY THE SUPPLIER TO DESIGN PRODUCTS TO MEET THE SPECIFIC CRITERIA OUTLINED IN THE CONTRACT DOCUMENTS. SEALING OF THE SUBMITTAL IMPLIES THAT THE SPECIALTY ENGINEER HAS REVIEWED THE CONTRACT DOCUMENTS AND HAS, TO THE BEST OF THEIR KNOWLEDGE, INCORPORATED ALL OF THE SPECIAL DESIGN CRITERIA CONTAINED THEREIN.
- ITEMS THAT REQUIRE SUBMITTAL FOR STRUCTURAL REVIEW ARE:
 - CONCRETE MIX DESIGNS
 - CONCRETE REINFORCING LAYOUT
 - MASONRY UNIT STRENGTHS
 - MORTAR/GROUT MIX DESIGNS
 - MASONRY REINFORCING LAYOUT
 - ANCHOR RODS
 - STRUCTURAL STEEL
 - PRE-FABRICATED BUILDING LOADS

SAW CUTTING EXISTING CONCRETE AND/OR MASONRY

- SAW CUTTING OF NEW OPENINGS IN EXISTING CONCRETE AND/OR MASONRY WALLS SHALL BE DONE WITHOUT OVERCUTTING BEYOND THE BOUNDARIES OF THE INTENDED OPENING. ANY STRUCTURAL REPAIRS REQUIRED BY THE STRUCTURAL ENGINEER OF RECORD AS A RESULT OF OVERCUTTING BEYOND THE BOUNDARIES OF AN OPENING SHALL BE PAID FOR BY THE SAW CUTTING CONTRACTOR. SEE DRAWINGS FOR ADDITIONAL INFORMATION.

FOUNDATIONS

- FOUNDATION CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SOIL REPORT BY SOIL AND MATERIALS ENGINEER, 2663 EATON RAPIDS ROAD, LANSING, MICHIGAN DATED MARCH 5, 2024 (SME JOB NO. 095623.00). THE CONTRACTOR SHALL OBTAIN A COPY OF THE SOIL REPORT AND BECOME FAMILIAR WITH THE REQUIREMENTS AND RECOMMENDATIONS THEREIN.
- A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE RETAINED BY THE CONTRACTOR TO VERIFY FOUNDATION INSTALLATION AND CONSTRUCTION IS IN CONFORMANCE WITH THE RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL INVESTIGATION REPORT.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, HAVING A MINIMUM SAFE BEARING CAPACITY OF 3,000 PSF.
- CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEER WHEN EXCAVATIONS ARE COMPLETED SO THAT CONDITIONS MAY BE INSPECTED PRIOR TO PLACEMENT OF ANY FILL, REINFORCING, OR CONCRETE. NOTIFY ARCHITECT/ENGINEER OF ANY VARIATION FROM THE ANTICIPATED BEARING CAPACITY FOR APPROPRIATE REDESIGN OR LOWERING OF FOOTING.
- THE BOTTOMS OF ALL FOOTINGS SHALL BE MINIMUM 3'-6" BELOW FINISHED GRADE. IF SUCH ADDITIONAL FOOTING DEPTH WILL CAUSE UNDERMINING OF ADJACENT EXISTING FOOTINGS OR STRUCTURES, SUCH SHORING, BRACING, OR UNDERPINNING AS REQUIRED, OR LEAVE FOOTING ELEVATION AS DESIGNED AND PROVIDE CONTINUED PROTECTION AND HEAT TO PREVENT FORMATION OF FROST BELOW FOOTING AND ADJACENT TO FOOTING.
- EDGES OF FOOTINGS SHALL NOT BE PLACED AT A GREATER THAN 1 VERTICAL TO 2 HORIZONTAL SLOPE WITH RESPECT TO ANY ADJACENT FOOTING OR EXCAVATION, UNLESS UNDERPINNING OR SHORING AND BRACING OF EXISTING FOOTING OR EXCAVATION IS PROVIDED. UNDERPINNING SHALL BE DONE SO AS NOT TO CAUSE SETTLEMENTS OF EXISTING STRUCTURE AND SHALL BE SUCH THAT COMPLETE CONTACT IS ACHIEVED BETWEEN NEW UNDERPINNING AND EXISTING CONCRETE.
- DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL CONCRETE HAS ATTAINED 100 PERCENT OF ITS DESIGN STRENGTH. DO NOT PLACE BACKFILL AGAINST FOUNDATION WALLS UNTIL BASEMENT SLAB ON GRADE AND FIRST FLOOR STRUCTURE ARE IN PLACE. SHORE AND BRACE WALLS AS REQUIRED IF BACKFILLING OPERATIONS ARE TO BE CARRIED OUT PRIOR TO PLACEMENT OF BASEMENT SLAB AND/OR FLOOR STRUCTURE.
- NO FOUNDATIONS OR SLABS SHALL BE PLACED ON OR AGAINST SUB-GRADE CONTAINING WATER, FROST, OR ICE. CONTRACTOR SHALL FURNISH ALL REQUIRED DE-WATERING EQUIPMENT TO MAINTAIN A DRY EXCAVATION UNTIL BACKFILL IS COMPLETE.
- CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PROTECT EXCAVATIONS AND SUB-GRADES OF COMPLETED NON-FROST PROTECTED FOUNDATIONS AND SLABS FROM DAMAGE DUE TO FREEZING CONDITIONS UNTIL THE FULL BUILDING ENCLOSURE IS COMPLETED AND HEATED.
- SLABS ON GRADE SHALL REST ON GRANULAR FILL PER GEOTECHNICAL REPORT. ALL BACKFILL WITHIN BUILDING LINES SHALL BE ENGINEERED GRANULAR FILL PLACED UNDER THE FULL-TIME SUPERVISION OF A SOIL ENGINEER AND SHALL BE COMPACTED TO ACHIEVE 95% MODIFIED PROCTOR DENSITY (AS DEFINED BY ASTM D1557 MODIFIED PROCTOR TEST). FILL SHALL BE PLACED IN 9" MAXIMUM LIFTS.
- THE CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS, ADJACENT STRUCTURES, PAVEMENTS, AND UTILITIES. DO NOT REMOVE SHORING, SUCH AS SHEET PILING, IF IT WILL CAUSE SETTLEMENT OR DAMAGE TO EXISTING OR NEW STRUCTURES, PAVEMENT, AND/OR UTILITIES.
- MAXIMUM LENGTH OF FOUNDATION WALL PLACED IN ONE OPERATION SHALL NOT EXCEED 60 FEET.
- THE FOUNDATION CONTRACTOR SHALL REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL LOCATIONS OF TRENCHES, PITS, CONDUITS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS.

CONCRETE

- ALL CONCRETE SHALL BE MADE WITH PORTLAND CEMENT AND STONE AGGREGATE, WITH MIXES DESIGNED TO MEET 28-DAY MINIMUM COMPRESSIVE STRENGTHS IN VARIOUS ELEMENTS OF THE STRUCTURE AS FOLLOWS. (UNLESS NOTED OTHERWISE):
 - ELEMENT FC MAX. AGG. MAX. W/C MAX. SLUMP
 - FOOTINGS 3,000 III 1 1/2" 0.49 4" (+/- 1")
 - WALLS 4,500 III 3/4" 0.46 4" (+/- 1")
 - SLABS ON GRADE 4,500 III 3/4" 0.46 4" (+/- 1")
- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE ACI 301, 318, AND SP-66 (213 INCLUDED AS A CHAPTER), LATEST EDITIONS.
- PROVIDE NORMAL WEIGHT CONCRETE WITH CURED DENSITY OF 145 PCF AND AGGREGATE CONFORMING TO ASTM C33.
- CONCRETE EXPOSED TO MOISTURE AND FREEZING-AND-THAWING CYCLES (WITH OR WITHOUT EXPOSURE TO DE-ICING CHEMICALS) SHALL BE AIR-ENTRAINED.
- THE USE OF CALCIUM CHLORIDE AND/OR OTHER CHEMICAL CONTAINING AGENTS IS PROHIBITED. THE USE OF RECYCLED CONCRETE IS PROHIBITED. PLACEMENT WITHIN AND CONTACT BETWEEN ALUMINUM FORMS AND CONCRETE IS PROHIBITED.
- NO CONCRETE SHALL BE PLACED UNTIL CONCRETE DESIGN MIXES AND PREVIOUS TESTS HAVE BEEN SUBMITTED FOR EACH CLASS OF CONCRETE NOTED ABOVE AND HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. CONCRETE PROPORTIONS SHALL BE BASED UPON FIELD EXPERIENCE AND/OR TRIAL BATCHES PER ACI 301 AND ACI 318. THE CONTROLLED CONCRETE TO BE USED SHALL CONFORM TO THE APPROVED DESIGN MIX. THE USE OF ANY ADDITIVES NOT PRESENT IN THE DESIGN MIX IS PROHIBITED. REPRESENTATIVE TEST CYLINDERS WILL BE TAKEN FROM THE CONCRETE PLACED EACH DAY IN ACCORDANCE WITH THE CONCRETE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAWINGS FOR REVIEW OF ALL JOINTS IN THE CONCRETE WORK INCLUDING CONSTRUCTION, EXPANSION, CONTRACTION, AND MOVEMENT JOINTS. DRAWINGS SHALL BE SUBMITTED AT LEAST TWO WEEKS PRIOR TO EXPECTED START OF WORK. JOINT LOCATIONS SHALL COMPLY WITH RECOMMENDATIONS AND REQUIREMENTS DESCRIBED IN ACI 224, LATEST EDITION.
- ALL CONCRETE STRUCTURAL MEMBERS SHALL BE PLACED FOR THEIR FULL DEPTHS IN ONE OPERATION. CONSTRUCTION JOINTS, SUCH AS DAYS END PLACEMENT JOINTS, SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN AND BE ROUGHENED, REINFORCING TO RUN THROUGH THE JOINT, BULKHEAD, AND/OR KEY JOINTS. REMOVE LATANCE PRIOR TO NEXT POUR.
- CONTRACTOR SHALL CALCULATE AND INCLUDE ALL ADDITIONAL CONCRETE THAT MAY BE REQUIRED DURING PLACING DUE TO DEFLECTION OF STRUCTURE AND PROVIDE A LEVEL CONCRETE SURFACE. THICKNESS OF SLAB CALLED OUT ON DRAWINGS IS THE MINIMUM THICKNESS AND SHALL BE MEASURED AT COLUMNS.
- ALL CONCRETE SHALL INCLUDE REINFORCEMENT. IF REINFORCEMENT IS NOT SPECIFICALLY INDICATED ON THE DRAWINGS, VERIFY WITH THE STRUCTURAL ENGINEER OF RECORD.
- CONCRETE SHALL NOT BE PLACED UNTIL PREPARATIONS HAVE BEEN APPROVED BY THE TESTING AND INSPECTION AGENCY INCLUDING FORMWORK, REINFORCEMENT, EMBEDMENTS, AND ACCESSORIES.

CONCRETE REINFORCEMENT

- REINFORCEMENT SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:
 - DEFORMED BARS ASTM A615, GRADE 60
- UNLESS NOTED OTHERWISE, THE CONCRETE COVER FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE SHALL NOT BE LESS THAN THE FOLLOWING:
 - CAST AGAINST EARTH 3" 3/4"
 - EXPOSED TO EARTHWEATHER 2"
 - SLABS, WALLS, AND JOISTS 3/4"
- DETAIL REINFORCEMENT BASED ON THE PROJECT REQUIREMENTS, ACI 318, ACI 318R, AND THE ACI DETAILING MANUAL SP-066, LATEST EDITIONS.
- WHERE A 90-DEGREE, 135-DEGREE, OR 180-DEGREE HOOK IS GRAPHICALLY INDICATED, PROVIDE CORRESPONDING ACI STANDARD HOOKS, UNLESS NOTED OTHERWISE.
- DOVELLS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCEMENT, UNLESS NOTED OTHERWISE.
- LAP WELDED WIRE REINFORCEMENT TWO PANEL SPACES, WERE WESH SHALL BE SUPPORTED ON CHAIRS SO PROPER COVER IS MAINTAINED, DO NOT USE METHOD OF PULLING UP WITH A HOOK DURING CONCRETE POURING TO POSITION THE REINFORCING.
- UNLESS NOTED OTHERWISE, TERMINATE BARS AT DISCONTINUOUS ENDS WITH STANDARD HOOKS.

CONCRETE MASONRY

- LOAD BEARING AND BACKUP WALL CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:
 - CONCRETE BLOCK ASTM C90, NORMAL WEIGHT, TYPE 1
 - MORTAR ASTM C270, TYPE II OR S PORTLAND/OLIME
 - GROUT ASTM C476 (3,000 PSI AT 28-DAYS)
 - REINFORCEMENT ASTM A615, GRADE 60, (MIN. 2" LAP)
 - JOINT REINFORCEMENT ASTM A951, LADDER TYPE, (MIN. 5/8-GAGE), GALV.
- UNLESS NOTED OTHERWISE, THE MASONRY COVER FOR REINFORCEMENT SHALL NOT BE LESS THAN THE FOLLOWING:
 - MASONRY FACE EXPOSED TO WEATHER 1 1/2"
 - MASONRY FACE NOT EXPOSED TO WEATHER 1 1/2"
 - GALVANIZED WIRE JOINT REINFORCING 3/4"
- CONCRETE MASONRY ASSEMBLAGE SHALL DEVELOP 2,500 PSI COMPRESSIVE STRENGTH IN 28-DAYS, UNLESS NOTED OTHERWISE.
- MORTAR FOR CONCRETE MASONRY SHALL BE TYPE M FOR ALL BELOW GRADE UNITS AND TYPE S AT ABOVE GRADE UNITS.
- CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
- LAY MASONRY IN RUNNING BOND, UNLESS NOTED OTHERWISE.
- HOLLOW UNIT MASONRY SHALL HAVE FACE SHELL BEDDING EXCEPT AT PIERS, COLUMNS, PILASTERS, THE COURSE IMMEDIATELY ABOVE FOUNDATIONS, AND WHERE CONTAINMENT OF GROUT OR LOOSE FILL INSULATION REQUIRES THAT WETS AND FACE SHELLS BE MORTARED, IN FULLY GROUTED OR UN-GROUTED MASONRY, ONLY THE FACE SHELLS NEED TO BE MORTARED.
- PROVIDE A CONTINUOUS BOND BEAM WITH (2) #5 BARS CONTINUOUS IN THE TOP COURSE OF ALL BLOCK WALLS, AT LOCATIONS WHERE FRAMING MEMBERS ARE BOLTED TO FACE OF CMU WALLS, BELOW BEAM BEARINGS, AND AT LOCATIONS INDICATED ON THE DRAWINGS. BOND BEAMS SHALL HAVE CORNER BARS AROUND CORNERS AND AT WALL INTERSECTIONS.
- FILL ALL VOIDS AND BLOCK CELLS LOCATED BELOW GRADE SOLIDLY WITH GROUT. GROUT SHALL BE VIBRATED AND RE-VIBRATED AFTER INITIAL WATER LOSS TO ENSURE COMPLETE FILLING OF CORES.

BRICK MASONRY

- BRICK MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING STANDARDS:
 - BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES, TMS 402/602
 - TECHNICAL NOTES ON BRICK CONSTRUCTION, TECHNICAL NOTES 1-48, 8/A
 - GUIDE SPECIFICATION FOR BRICK MASONRY, TECHNICAL NOTES 11-A/E, 8/A
 - HOT AND COLD WEATHER MASONRY CONSTRUCTION BY THE MASONRY INDUSTRY COUNCIL.
- BRICK UNITS FOR EXTERIOR USE AS A VENEER SHALL CONFORM TO ASTM C216 GRADE SW, WITH THE FOLLOWING EXCEPTIONS:
 - THE SATURATION COEFFICIENT (C_B) REQUIREMENT SHALL NOT BE WAIVED AS ALLOWED IN SECTIONS 5.1 AND 5.2 UNLESS ENGINEERING DATA AND FIELD RECORDS CAN BE PROVIDED WHICH DEMONSTRATES THE UNITS TO BE SUFFICIENTLY DURABLE AND RESISTANT TO FREEZE-THAW DEGRADATION.
 - INITIAL RATE OF ABSORPTION (IRA) SHALL NOT EXCEED 20 GRAMS PER MINUTE PER 30 SQUARE INCHES OF FACE AREA FOR COLD WEATHER CONSTRUCTION. THE BRICKS SHALL HAVE A MINIMUM IRA OF 6 GRAMS PER MINUTE PER 30 SQUARE INCHES OF FACE AREA.
- BRICK MANUFACTURER OR DISTRIBUTOR SHALL PROVIDE THE ARCHITECT WITH BRICK TEST DATA, CERTIFICATE OF COMPLIANCE WITH ASTM C216 GRADE SW, AND THE ABOVE-NOTED EXCEPTIONS. BRICK UNITS SHALL NOT BE SHIPPED TO THE SITE UNTIL APPROVAL HAS BEEN RECEIVED FROM THE ARCHITECT.
- MORTAR FOR BRICK MASONRY SHALL CONFORM TO ASTM C270. MORTAR SHALL BE TYPE M FOR ALL BELOW GRADE UNITS AND TYPE N ABOVE GRADE.

STRUCTURAL STEEL

- STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS UNLESS NOTED OTHERWISE:
 - W-SHAPES ASTM A992, MN 50 KSI
 - HSS-SHAPES ASTM A501, GRADE C, MN 50 KSI
 - PIPING ASTM A53, GRADE B, MN 35 KSI
 - ALL OTHER ASTM A36, MN 36 KSI
- CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING MINIMUM REQUIREMENTS OR AS NEEDED FOR CONNECTION DESIGN:
 - ANGLES PLATES ASTM A36, MN 36 KSI
 - WT-SHAPES ASTM A992, MN 50 KSI
 - BOLTS ASTM F1554
 - NUTS ASTM A563
 - WASHERS ASTM F436
 - THREADED RODS ASTM A36, MN 36 KSI
 - ANCHOR RODS ASTM F1554 WELDABLE, GRADE E5
 - WELD ELECTRODES E70XX
- ALL CONNECTIONS NOT SPECIFICALLY DETAILED, SHALL BE BEARING TYPE CONNECTIONS DESIGNED AND DETAILED BY THE FABRICATOR TO SUPPORT THE END REACTIONS NOTED ON THE DRAWINGS. SHEAR TAB CONNECTIONS ARE PERMISSIBLE FOR SECONDARY BEAMS, PRIMARY RODS REQUIRE DOUBLE CLIP ANGLES, TYP.
- SPICES SHALL BE ALLOWED ONLY AT LOCATIONS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS UNLESS APPROVED OTHERWISE BY THE STRUCTURAL ENGINEER OF RECORD.
- DO NOT USE OVERSIZED OR SLOTTED HOLES FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- STEEL THAT MAY ACCUMULATE WATER SHALL HAVE DRAIN HOLES. ALL DRAIN PENETRATIONS THROUGH MAIN MEMBERS SHALL NOT EXCEED 1-INCH IN DIAMETER AND SHALL BE GROUND SMOOTH. THESE DRAINS MUST BE KEPT CLEAN AND OPEN.
- SHOW ALL COPES, HOLES, OPENINGS, AND MODIFICATIONS REQUIRED IN STRUCTURAL STEEL MEMBERS FOR ERECTION OR THE WORK OF OTHER TRADES ON THE SHOP DRAWINGS.
- ALL WELDING SHALL BE DONE BY CERTIFIED, LICENSED WELDERS AND SHALL BE IN CONFORMANCE WITH THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY ANSIIAWS D1.1, LATEST EDITION.
- NO PENETRATIONS ARE PERMITTED THROUGH STRUCTURAL STEEL MEMBERS UNLESS INDICATED ON STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
- APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD SHALL BE MANDATORY FOR THE USE OF CUTTING TORCH IN THE FIELD.
- ALL GROUT UNDER STEEL PLATES SHALL BE NON-SHRINK "PRE-MIX" TYPE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI, TESTED IN ACCORDANCE WITH CONCRETE SPECIFICATIONS. USE NON-STAINING GROUT AT EXPOSED LOCATIONS.
- THE STEEL FABRICATOR MAY SUBSTITUTE HEAVIER SECTIONS IN PLACE OF THE SECTIONS SHOWN ON THE DRAWINGS TO ACHIEVE ECONOMY OF REPEITION, FOR AVAILABILITY, OR TO TAKE ADVANTAGE OF ROLLING MILL PRODUCTION SCHEDULES SO LONG AS THE CHANGES ARE MADE KNOWN TO THE ARCHITECT AND STRUCTURAL ENGINEER, AND ARE ACCEPTABLE TO BOTH.
- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP-APPLIED COAT OF RUST INHIBITING PRIMER AFTER SURFACE PREPARATION BY THE SOCIETY FOR PROTECTIVE COATINGS (SSPC) SP3 "POWER TOOL CLEANING", UNLESS NOTED OTHERWISE. DO NOT PAINT PORTIONS OF STEEL MEMBERS THAT ARE TO RECEIVE SPRAY-ON FIREPROOFING. NON SURFACES TO RECEIVE WELDED SHEAR STUDS, STEEL STRUCTURE THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR SHALL BE HOT DIP GALVANIZED ACCORDING TO ASTM A123.
- FOR MISCELLANEOUS STEEL CONSTRUCTION NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

FIELD DRILLED ADHESIVE ANCHORS

- BASIS OF DESIGN FOR FIELD DRILLED ADHESIVE ANCHORS AND REBAR IN CONCRETE SHALL BE HLTI-HI-HY 200 V3 AS MANUFACTURED BY HILTI, OR EQUIVALENT PRODUCT. BASIS OF DESIGN FOR FIELD DRILLED ADHESIVE ANCHORS AND REBAR IN MASONRY SHALL BE HLTI-HI-HY 270 AS MANUFACTURED BY HILTI, OR EQUIVALENT PRODUCT. FOR HOLLOW OR MULTI-WYTHE MASONRY, PROVIDE APPROPRIATELY SIZED SCREEN TUBE PER INSTALLATION INSTRUCTIONS. FOR SUBSTITUTION PURPOSES, SIGNED AND SEALED CALCULATIONS SHALL BE PROVIDED FOR REVIEW, INDICATING THE SUBSTITUTED ANCHOR MEETS THE CAPACITY REQUIREMENTS OF THE DETAILED ANCHOR.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- USE ONLY CODE-APPROVED ANCHORS WITH VALID EVALUATION REPORT FOR USE IN THE BASE MATERIAL, SHOWN ON THE CONSTRUCTION DOCUMENTS. SUBMIT EVALUATION REPORT TO STRUCTURAL ENGINEER OF RECORD AND SPECIAL INSPECTION AGENT FOR APPROVAL. DO NOT INSTALL ANCHORS UNTIL SUBMITTAL IS RETURNED "REVIEWED WITHOUT COMMENT".
- ONLY ONE LENGTH ANCHOR SHALL BE PRESENT ON THE JOB SITE FOR A GIVEN ANCHOR DIAMETER, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- ALL FIELD INSTALLED ADHESIVE ANCHORS SHALL CONFORM TO AC-308. INSTALLER OF FIELD INSTALLED ADHESIVE ANCHORS SHALL BE TRAINED BY ANCHOR MANUFACTURER TO ENSURE PROPER INSTALLATION REQUIREMENTS SUCH AS HOLE CLEANING, HORIZONTAL AND OVERHEAD APPLICATIONS, EMBEDMENT DEPTHS GREATER THAN 10 INCHES, AND WATER FILLED HOLES.
- ADHESIVE ANCHORS OF THE DIAMETER AND EMBEDMENT SHOWN ON THE DRAWINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS UNDER THE CONTINUOUS SUPERVISION OF AN INDEPENDENT TESTING AGENCY, WHERE THE PROVISIONS OF THE ABOVE REFERENCED DOCUMENTS ARE IN CONFLICT, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. AT LOCATIONS WHERE ANCHORAGE IS NOT SPECIFIED, CONSULT STRUCTURAL ENGINEER OF RECORD.
- CLEAN EXISTING CONCRETE SURFACE TO SOLID STRUCTURAL CONCRETE. GRIND SMOOTH FOR FULL STEEL CONTACT AND TO PREVENT GAPS BETWEEN STEEL AND CONCRETE. ALTERNATIVELY, PROVIDE NON-SHRINK GROUT IN ALL VOIDS BETWEEN STEEL AND BASE MATERIAL. FOREIGN MATERIAL SHALL NOT BE PLACED IN THE HOLES THAT RECEIVE ADHESIVE ANCHORS. ALL ABANDONED HOLES DRILLED IN CONCRETE SHALL BE COMPLETELY FILLED WITH STRUCTURAL GRADE EPOXY.
- THE CONTRACTOR SHALL CREATE A TEMPLATE AT EACH ADHESIVE ANCHOR CONNECTION LOCATION PRIOR TO FABRICATING HOLES IN CONNECTING PLATES OR ROLLED SHAPES. TEMPLATES SHALL BE MADE BY FIRST LOCATING EXISTING REINFORCING STEEL USING NON-DESTRUCTIVE TESTING EQUIPMENT, AND THEN DRILLING ANCHOR HOLES SUCH THAT NO CONFLICT EXISTS WITH THE EXISTING REINFORCING. ANCHOR LOCATIONS IN THE FIELD MAY BE RELOCATED A MAXIMUM OF 1/2 INCHES FROM THE DIMENSIONS SHOWN ON THE DRAWINGS TO AVOID CONFLICTS WITH THE EXISTING REINFORCING STEEL. HOWEVER, DO NOT EXCEED MINIMUM ANCHOR SPACINGS OR EDGE DISTANCES PER MANUFACTURER'S REQUIREMENTS.
- ADHESIVE ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE FACE OF THE SURFACE BEING DRILLED. THE MAXIMUM TOLERANCE FOR DEVIATION FROM PERPENDICULAR SHALL BE 6 DEGREES. ALL ADHESIVE ANCHORS INSTALLED OUTSIDE OF THE SPECIFIED TOLERANCE SHALL BE CONSIDERED UNACCEPTABLE. USE OF DIAMOND CORE BIT WITH ROUGHENING TOOL FOR ANCHOR HOLES REQUIRES APPROVAL FROM STRUCTURAL ENGINEER OF RECORD PRIOR TO DRILLING.
- HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 3/16 INCH LARGER THAN THE ADHESIVE ANCHOR ROD DIAMETER. IF LARGER DIAMETER HOLES ARE USED FOR ERECTION PURPOSES, THE CONTRACTOR MUST PROVIDE PLATE WASHERS WITH HOLES NO MORE THAN 1/16 INCH LARGER THAN THE ANCHOR. PLATE WASHERS MUST BE WELDED TO THE CONNECTION PLATE TO TRANSFER THE LOAD. WELDING MUST TAKE PLACE AFTER HOLES ARE DRILLED, BUT PRIOR TO ADHESIVE INSTALLATION TO AVOID BURNING OR MELTING THE ADHESIVE.

FIELD DRILLED MECHANICAL ANCHORS

- BASIS OF DESIGN FOR FIELD DRILLED MECHANICAL ANCHORS IN CONCRETE AND SOLID GROUTED MASONRY SHALL BE HLTI-KVHK BOLT T22 ANCHORS AS MANUFACTURED BY HILTI, OR EQUIVALENT PRODUCT. FOR SUBSTITUTION PURPOSES, SIGNED AND SEALED CALCULATIONS SHALL BE PROVIDED FOR REVIEW, INDICATING THE SUBSTITUTED ANCHOR MEETS THE CAPACITY REQUIREMENTS OF THE DETAILED ANCHOR.
- ANCHOR CAPACITY IS DEPENDENT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE OR MASONRY. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.
- USE ONLY CODE-APPROVED ANCHORS WITH VALID EVALUATION REPORT FOR USE IN THE BASE MATERIAL, SHOWN ON THE CONSTRUCTION DOCUMENTS. SUBMIT EVALUATION REPORT TO STRUCTURAL ENGINEER OF RECORD AND SPECIAL INSPECTION AGENT FOR APPROVAL. DO NOT INSTALL ANCHORS UNTIL SUBMITTAL IS RETURNED "REVIEWED WITHOUT COMMENT".
- ONLY ONE LENGTH ANCHOR SHALL BE PRESENT ON THE JOB SITE FOR A GIVEN ANCHOR DIAMETER, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.
- ALL FIELD INSTALLED MECHANICAL ANCHORS SHALL CONFORM TO AC-109. INSTALLER OF FIELD INSTALLED MECHANICAL ANCHORS SHALL BE TRAINED BY ANCHOR MANUFACTURER TO ENSURE PROPER INSTALLATION REQUIREMENTS SUCH AS DRILLING METHODS, HOLE CLEANING, AND INSTALLATION TORQUE.
- MECHANICAL ANCHORS OF THE DIAMETER AND EMBEDMENT SHOWN ON THE DRAWINGS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS UNDER THE CONTINUOUS SUPERVISION OF AN INDEPENDENT TESTING AGENCY, WHERE THE PROVISIONS OF THE ABOVE REFERENCED DOCUMENTS ARE IN CONFLICT, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. AT LOCATIONS WHERE ANCHORAGE IS NOT SPECIFIED, CONSULT STRUCTURAL ENGINEER OF RECORD.
- CLEAN EXISTING CONCRETE SURFACE TO SOLID STRUCTURAL CONCRETE. GRIND SMOOTH FOR FULL STEEL CONTACT AND TO PREVENT GAPS BETWEEN STEEL AND CONCRETE. ALTERNATIVELY, PROVIDE NON-SHRINK GROUT IN ALL VOIDS BETWEEN STEEL AND BASE MATERIAL. FOREIGN MATERIAL SHALL NOT BE PLACED IN THE HOLES THAT RECEIVE MECHANICAL ANCHORS. ALL ABANDONED HOLES DRILLED IN CONCRETE SHALL BE COMPLETELY FILLED WITH STRUCTURAL GRADE EPOXY.
- THE CONTRACTOR SHALL CREATE A TEMPLATE AT EACH MECHANICAL ANCHOR CONNECTION LOCATION PRIOR TO FABRICATING HOLES IN CONNECTING PLATES OR ROLLED SHAPES. TEMPLATES SHALL BE MADE BY FIRST LOCATING EXISTING REINFORCING STEEL USING NON-DESTRUCTIVE TESTING EQUIPMENT, AND THEN DRILLING ANCHOR HOLES SUCH THAT NO CONFLICT EXISTS WITH THE EXISTING REINFORCING. ANCHOR LOCATIONS IN THE FIELD MAY BE RELOCATED A MAXIMUM OF 1/2 INCHES FROM THE DIMENSIONS SHOWN ON THE DRAWINGS TO AVOID CONFLICTS WITH THE EXISTING REINFORCING STEEL. HOWEVER, DO NOT EXCEED MINIMUM ANCHOR SPACINGS OR EDGE DISTANCES MANUFACTURER'S REQUIREMENTS.
- MECHANICAL ANCHORS SHALL BE INSTALLED PERPENDICULAR TO THE FACE OF THE SURFACE BEING DRILLED. THE MAXIMUM TOLERANCE FOR DEVIATION FROM PERPENDICULAR SHALL BE 6 DEGREES. ALL MECHANICAL ANCHORS INSTALLED OUTSIDE OF THE SPECIFIED TOLERANCE SHALL BE CONSIDERED UNACCEPTABLE. USE OF DIAMOND CORE BIT WITH ROUGHENING TOOL FOR ANCHOR HOLES REQUIRES APPROVAL FROM STRUCTURAL ENGINEER OF RECORD PRIOR TO DRILLING.
- HOLES IN CONNECTION PLATES SHALL BE NO MORE THAN 3/16 INCH LARGER THAN THE MECHANICAL ANCHOR ROD DIAMETER. IF LARGER DIAMETER HOLES ARE USED FOR ERECTION PURPOSES, THE CONTRACTOR MUST PROVIDE PLATE WASHERS WITH HOLES NO MORE THAN 1/16 INCH LARGER THAN THE ANCHOR. PLATE WASHERS MUST BE WELDED TO THE CONNECTION PLATE TO TRANSFER THE LOAD.

MASONRY CONSTRUCTION REQUIREMENTS PER TMS 602/ACI 530.1/ASSE 6				
TMS 602 - TABLE 3 - MINIMUM VERIFICATION REQUIREMENTS				
Minimum Verification	LVL 1	LVL 2	LVL 3	
Prior to construction, verification of compliance of submittals	R	R	R	R
Prior to construction, verification of f'm and FAAC, except where specifically exempted by the Code	NR	R	R	R
During construction, verification of Slump Flow and Evaporation Stability Index (VSI) when self-consolidating grout is delivered to the project site	NR	R	R	R
During construction, verification of f'm and FAAC for every 5,000 sq. ft.	NR	NR	R	R
During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	NR	NR	R	R
TMS 602 - TABLE 4 - MINIMUM SPECIAL INSPECTION REQUIREMENTS				
Minimum Verification	LVL 1	LVL 2	LVL 3	
As masonry construction begins, verify that the following are in compliance:				
Proportions of site-prepared mortar	NR	P	P	P
Grade, type, and size of reinforcement, connectors, anchor bolts	NR	P	P	P
Prior to grouting, verify that the following are in compliance:				
Grout space	NR	P	C	C
Placement of reinforcement, connectors, and anchor bolts	NR	P	C	C
Proportions of site-prepared grout	NR	P	C	C
Verify compliance of the following during construction:				
Materials and procedures with the approved submittals	NR	P	P	P
Placement of masonry units and mortar joint construction	NR	P	P	P
Size and location of structural members	NR	P	P	P
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	NR	P	C	C
Welding of reinforcement	NR	C	C	C
Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F)	NR	P	P	P
Observe preparation of grout specimens, mortar specimens, and/or prisms	NR	P	C	C

MICHIGAN BUILDING CODE 2015			
TABLE 1705.3 - REQUIRED SPECIAL INSPECTION AND TESTS OF CONCRETE CONSTRUCTION			
TYPE	CONTINUOUS	PERIODIC	
Inspect reinforcement, including prestressing tendons, and verify placement.	--	X	
Reinforcing bar welding			
Verify weldability of reinforcing bars other than ASTM A706	--	X	
Inspect single-pass fillet welds, maximum 5/16"	--	X	
Inspect all			

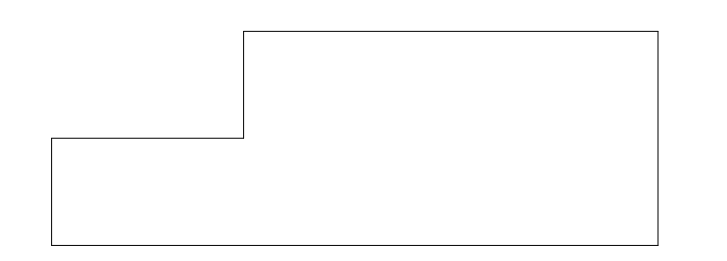
PATTENGILL MODULAR CLASSROOM BUILDING

LANSING SCHOOL DISTRICT

815 North Fairview Avenue, Lansing, MI



ISSUANCE Early Foundation Work BP #2 Addendum #2
DAT 03.22.2024 04.11.2024



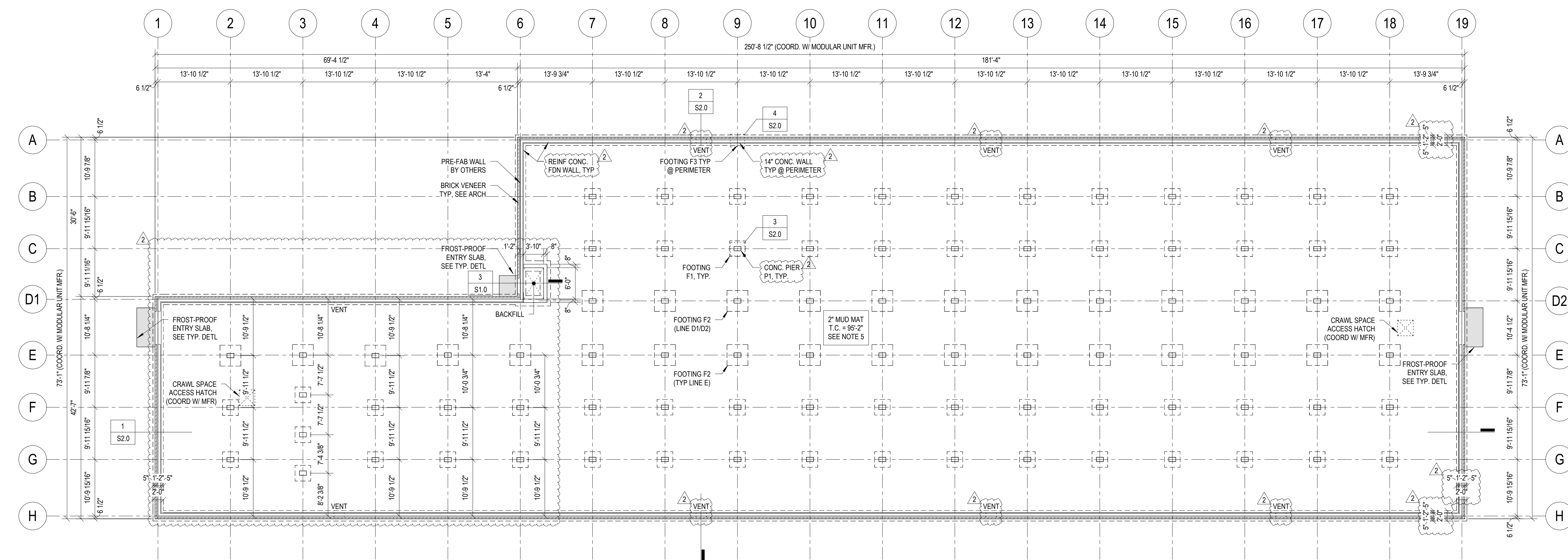
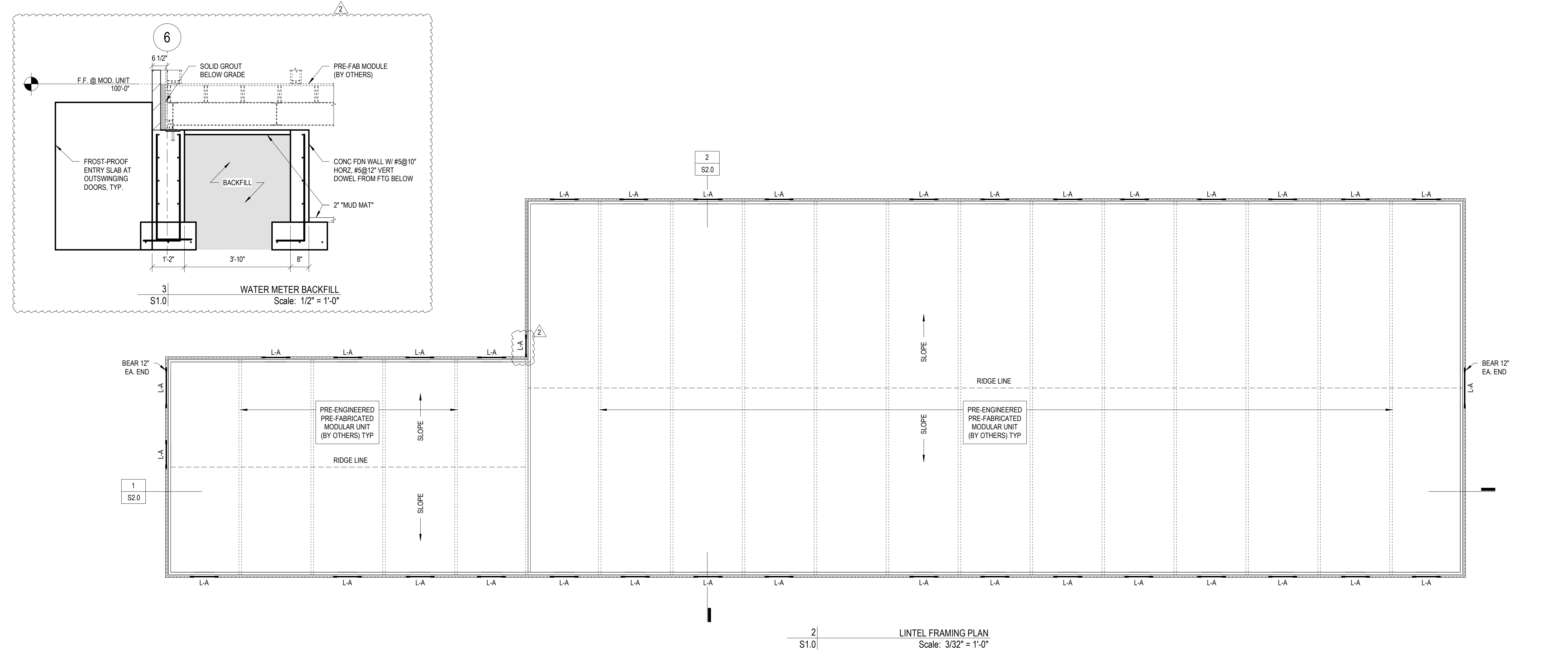
KEY PLAN

JOB NO. 24013

SHEET TITLE
FOUNDATION AND LINTEL FRAMING PLANS

SHEET NO.

S1.0



MARK	TYPE	TYPE	REINF
F1	CONC COL FTG	3'-0"x3'-0"x1'-0"	(4) #5 BOT. EACH WAY
F2	CONC COL FTG	4'-0"x4'-0"x1'-0"	(5) #5 BOT. EACH WAY
F3	CONC STRIP FTG	2'-0"x1'-0"	(3) #5 BOT. CONT.
P1	CONC PIER	10"x16"	(4) #6 VERT. DOWEL FROM FTG W/ #3 TIES, 3@3" OC TOP, BAL @12" OC
P2	CONC PIER	-	NOT USED

1
S1.0 FOUNDATION PLAN
Scale: 3/32" = 1'-0"

- PLAN NOTES:**
- SEE SHEET S0.1 FOR STRUCTURAL NOTES AND TYPICAL DETAILS.
 - GENERAL CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 - VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND MODULAR UNIT DRAWINGS.
 - ALL FOUNDATION CONDITIONS ARE TO BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO REBAR AND CONCRETE PLACEMENT. MINIMUM ALLOWABLE BEARING PRESSURE = 3,000 PSF.
 - SLAB ON GRADE TO BE 2" THICK (MINIMUM) MUD MAT.
 - PROVIDE BOND BREAKER BETWEEN SLAB & FOUNDATION ELEMENTS.
 - ALL MASONRY CORES AND VOIDS BELOW GRADE TO BE SOLID GROUTED.
 - STEEL LINTEL AT OPENINGS IN BRICK VENEER TO BE 16"x12" 3/8" (L-A) BEAR 8" EACH END.
 - ALL STEEL TO BE HOT-DIP GALVANIZED.
 - ALL FRAMING CLIPS, STRAPS, AND HANGERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUAL U.O.N.
 - ALL HANGERS, FASTENERS, NAILS, SCREWS, ETC. TO BE STAINLESS STEEL AT EXTERIOR CONDITIONS.
- PRE-MANUFACTURED UNIT SUPPLIER DECLINED TO PROVIDE REACTIONS ITEMIZED FOR EACH LOAD CASE (DEAD, LIVE, ROOF, WIND, SNOW, WIND (S, E-W, AND UPLIFT), AND SEISMIC (N-S, E-W, AND UPLIFT)). ASSUMPTIONS WERE THEREFORE MADE TO DESIGN FOUNDATIONS. SUPPLIER TO PROVIDE FINAL ENGINEERED PLANS, SECTIONS, AND DETAILS, WITH CALCULATIONS, ALL SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF MICHIGAN AS A SEPARATE DELEGATED DESIGN PACKAGE FOR WHICH ROA TAKES NO RESPONSIBILITY FOR THE ADEQUACY OF ANY PRE-MANUFACTURED UNIT DESIGN OR CONSTRUCTION.

PATTENGILL MODULAR CLASSROOM BUILDING

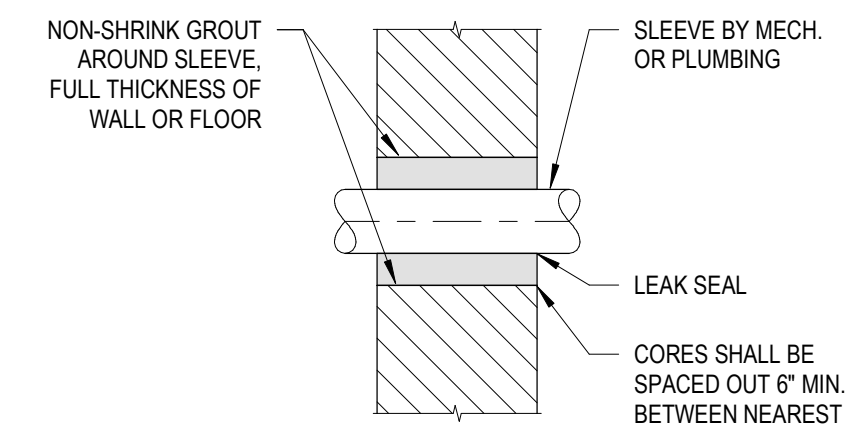
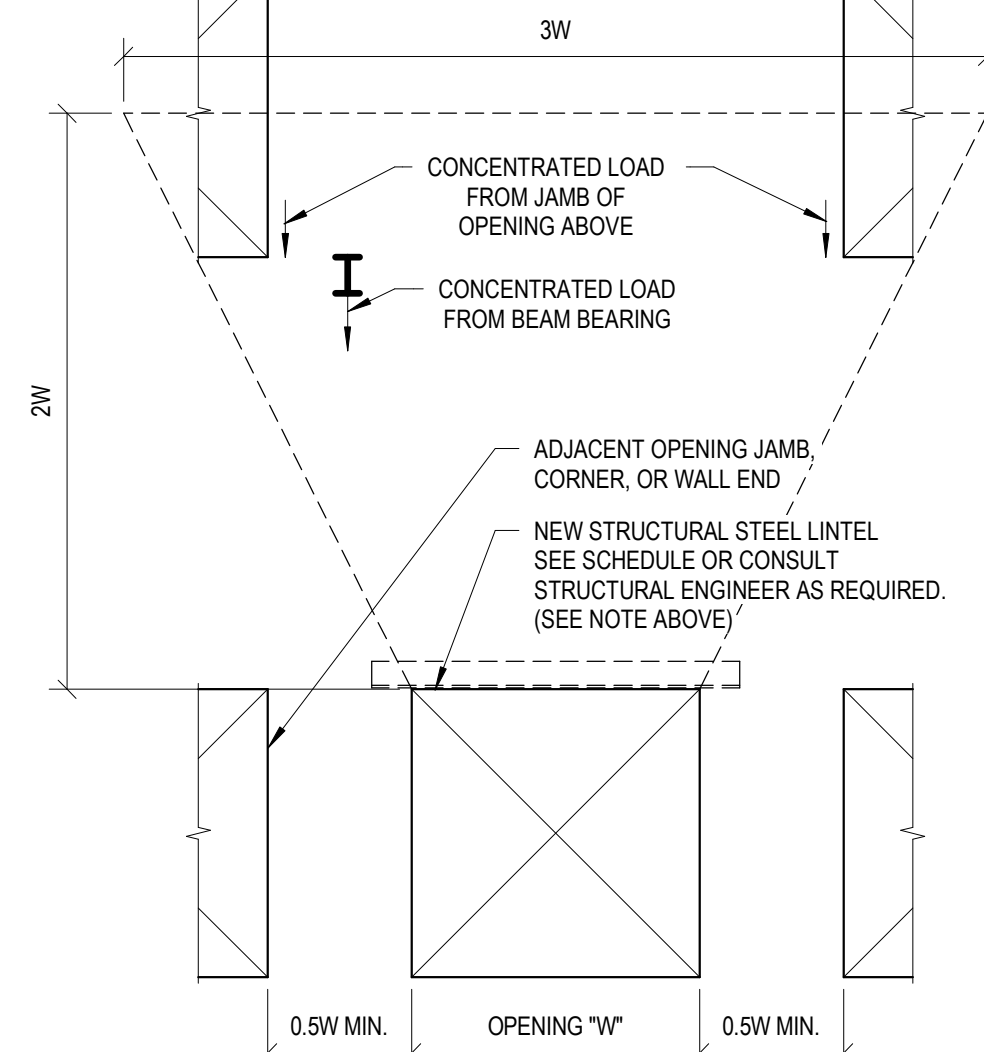
LANSING SCHOOL DISTRICT

815 North Fairview Avenue, Lansing, MI

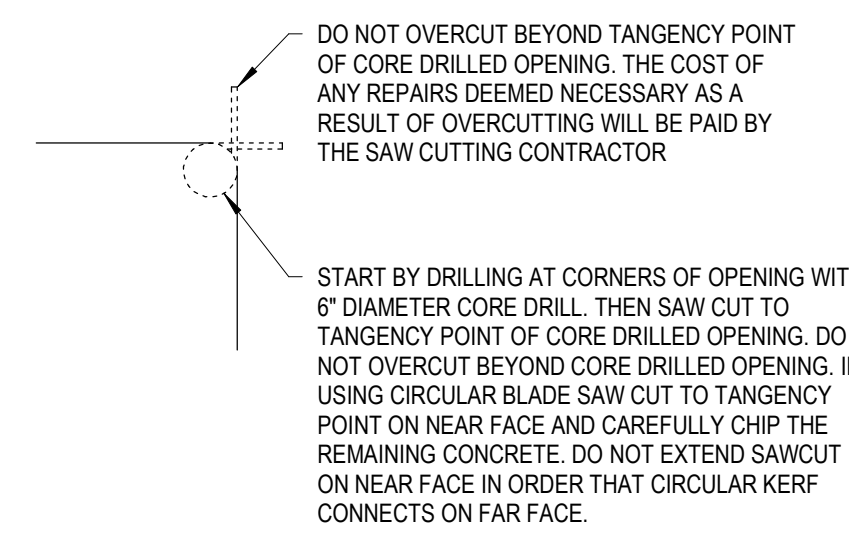
OPENING WIDTH "W"	SIZE OF LINTEL TO BE USED FOR EA. 4" OF WALL THICKNESS	MIN. BRG.
< 8"	NO LINTEL REQUIRED	-
8" TO 3'-0"	L3 1/2" x 3 1/2" x 1/4"	8"
3'-0" TO 3'-6"	L5" x 3 1/2" x 1/4" LLV	8"
3'-6" TO 5'-0"	L6" x 3 1/2" x 5/16" LLV	8"
5'-0" TO 6'-0"	L6" x 3 1/2" x 3/8" LLV	12"
> 6'-0"	CONSULT STRUCTURAL	

SELECT LINTEL FROM SCHEDULE ABOVE IF BOTH CONDITIONS BELOW ARE MET. IF EITHER CONDITION IS NOT MET, CONSULT THE PROJECT STRUCTURAL ENGINEER FOR LINTEL SIZE, BEARING, AND DETAIL UON.

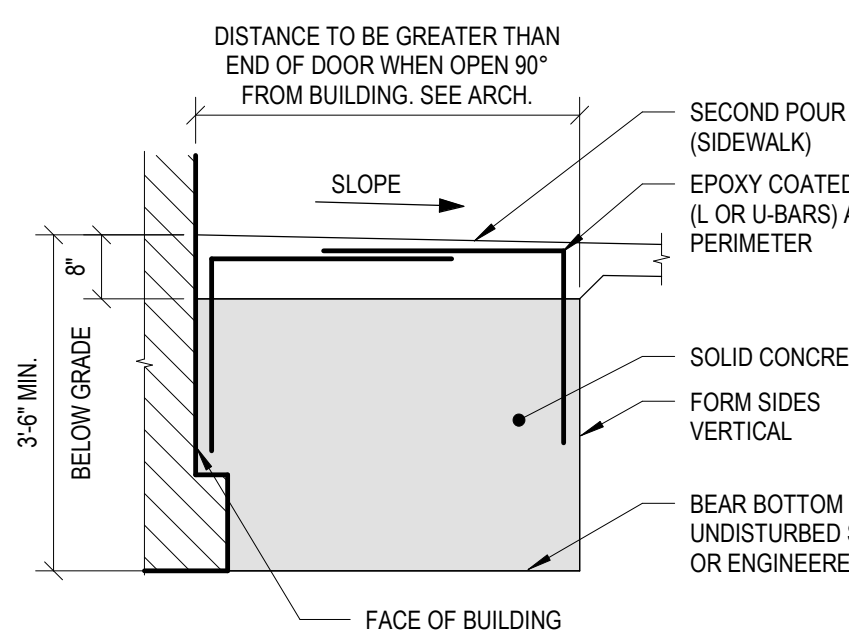
CONDITION A: NO CONCENTRATED LOADS FROM BEAM BEARING OR MASONRY JAMBS FALL WITHIN AN AREA 3W HORIZONTAL BY 2W VERTICAL.
CONDITION B: THE DISTANCE TO THE CLOSEST ADJACENT OPENING, JAMB, CORNER, OR WALL END IS GREATER THAN 0.5W



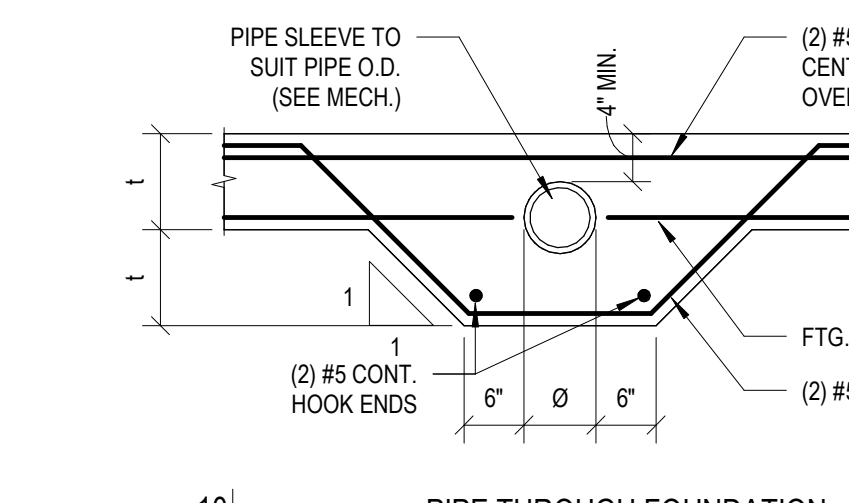
7 CORING AND SLEEVING IN EXISTING CONCRETE
Not to Scale



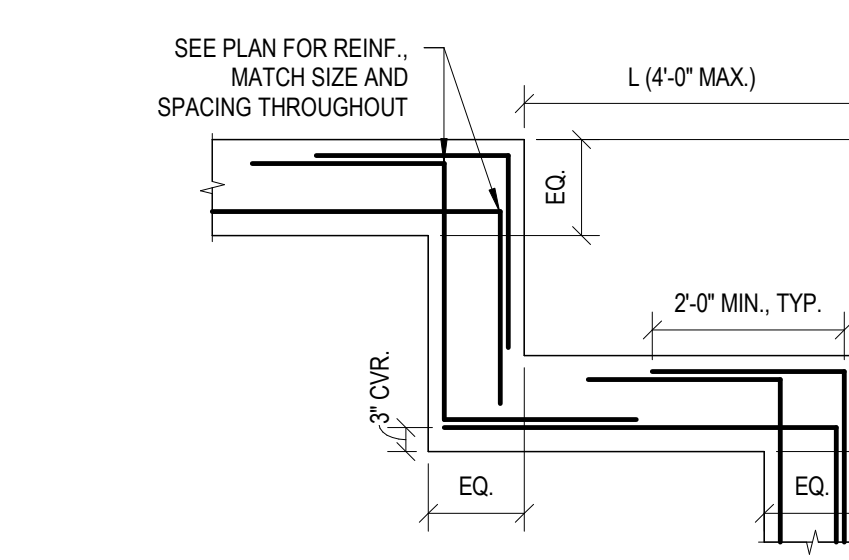
8 NEW OPENINGS IN EXISTING CONCRETE
Not to Scale



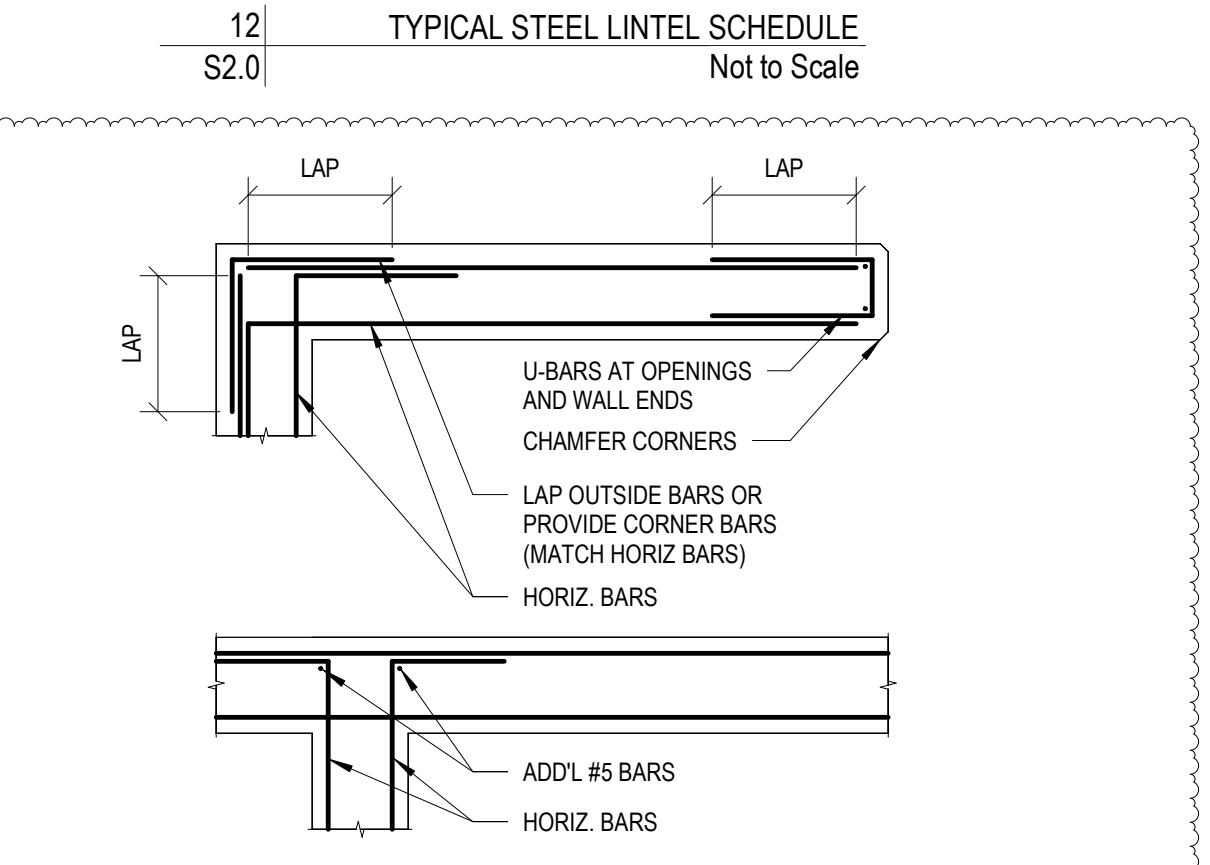
9 FROST-PROOF ENTRY SLAB
Not to Scale



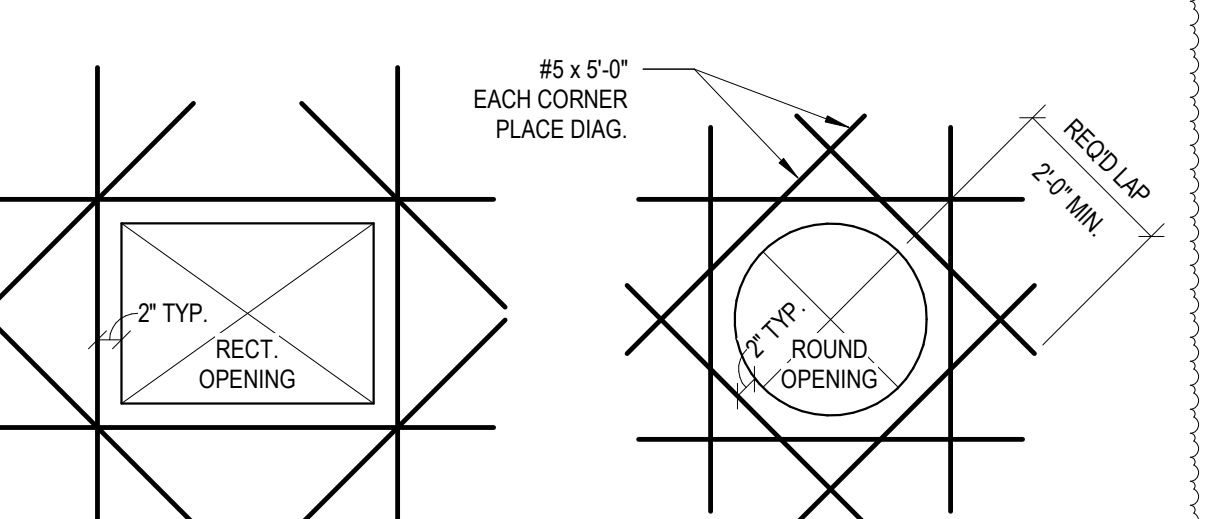
10 PIPE THROUGH FOUNDATION
Not to Scale



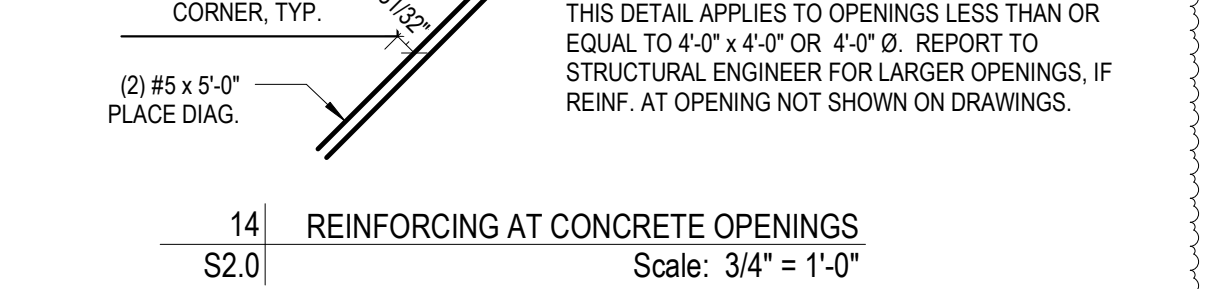
11 STEPPED FOUNDATION DETAIL
Not to Scale



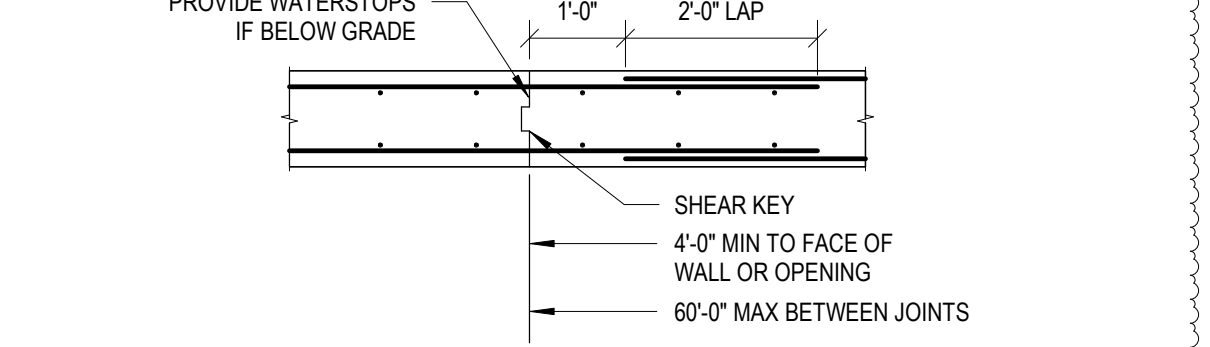
12 TYPICAL STEEL LINTEL SCHEDULE
Not to Scale



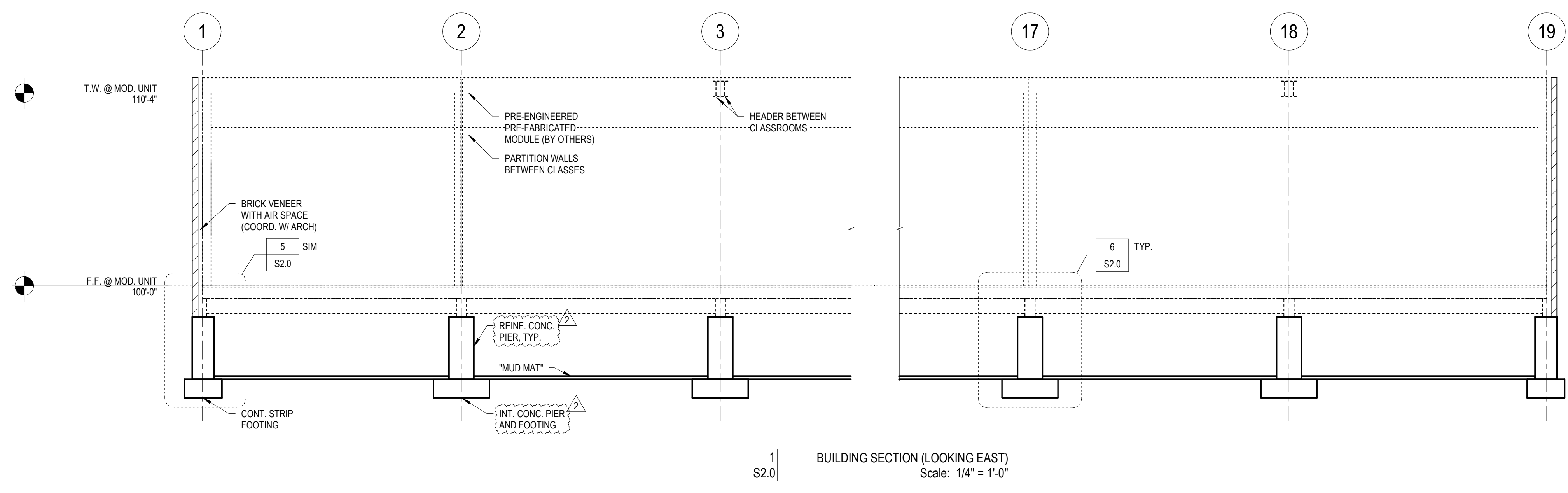
13 TYPICAL WALL AND CORNER REINFORCING
Not to Scale



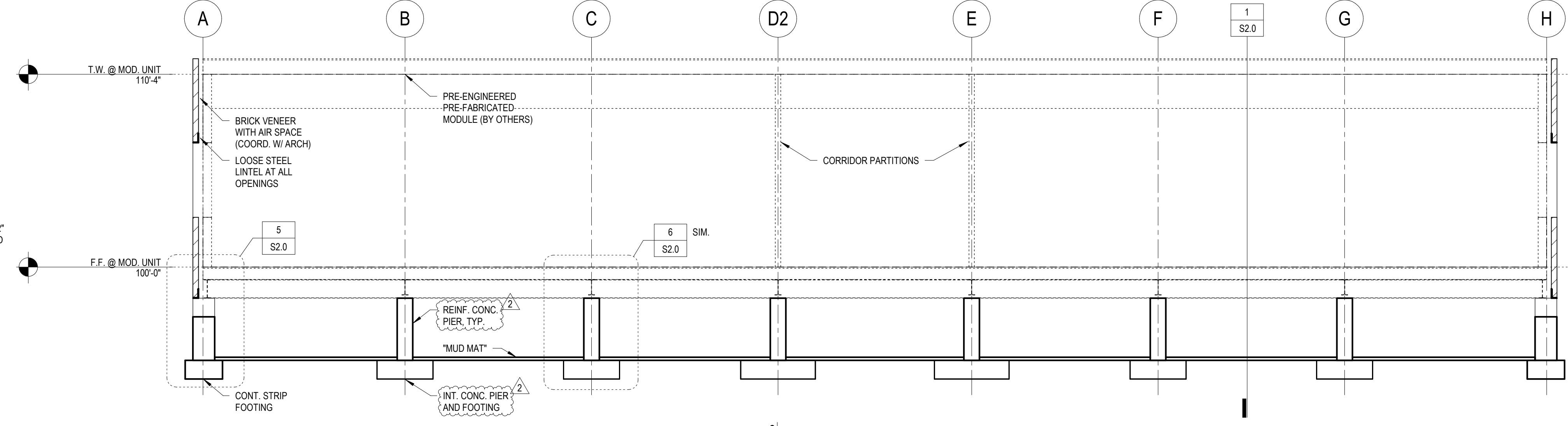
14 REINFORCING AT CONCRETE OPENINGS
Scale: 3/4" = 1'-0"



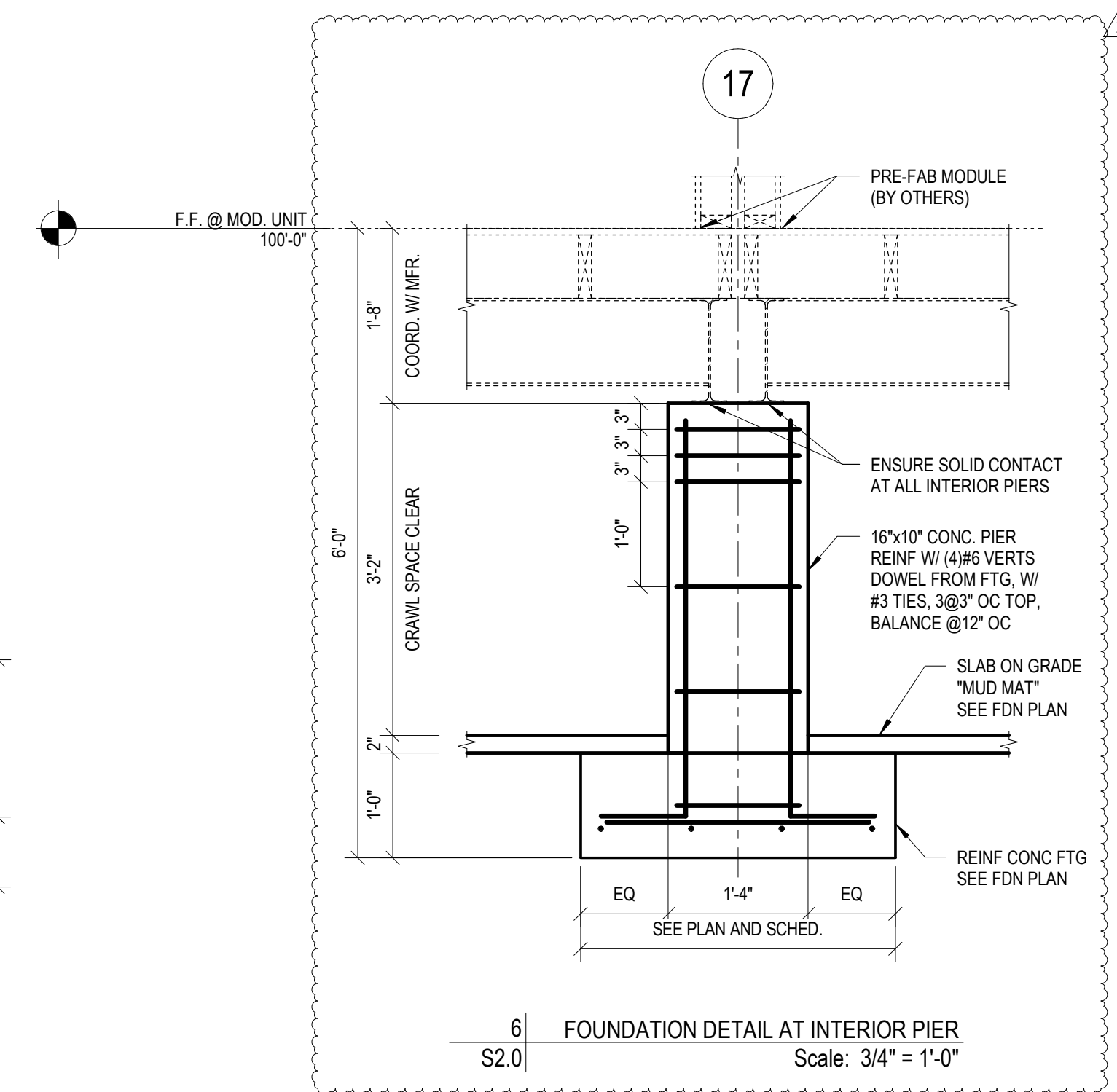
15 WALL CONSTRUCTION JOINT
Scale: 1/2" = 1'-0"



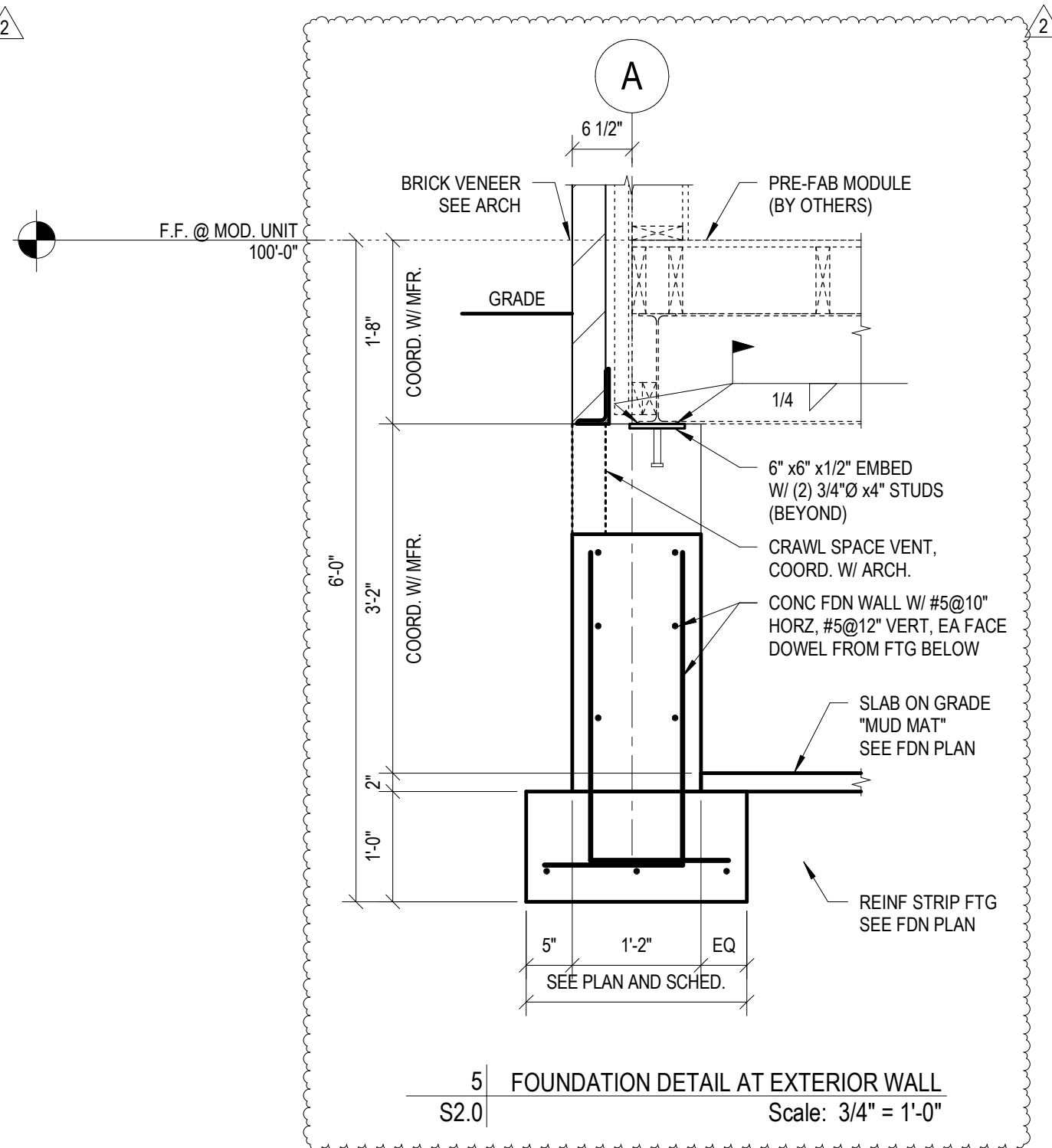
1 BUILDING SECTION (LOOKING EAST)
Scale: 1/4" = 1'-0"



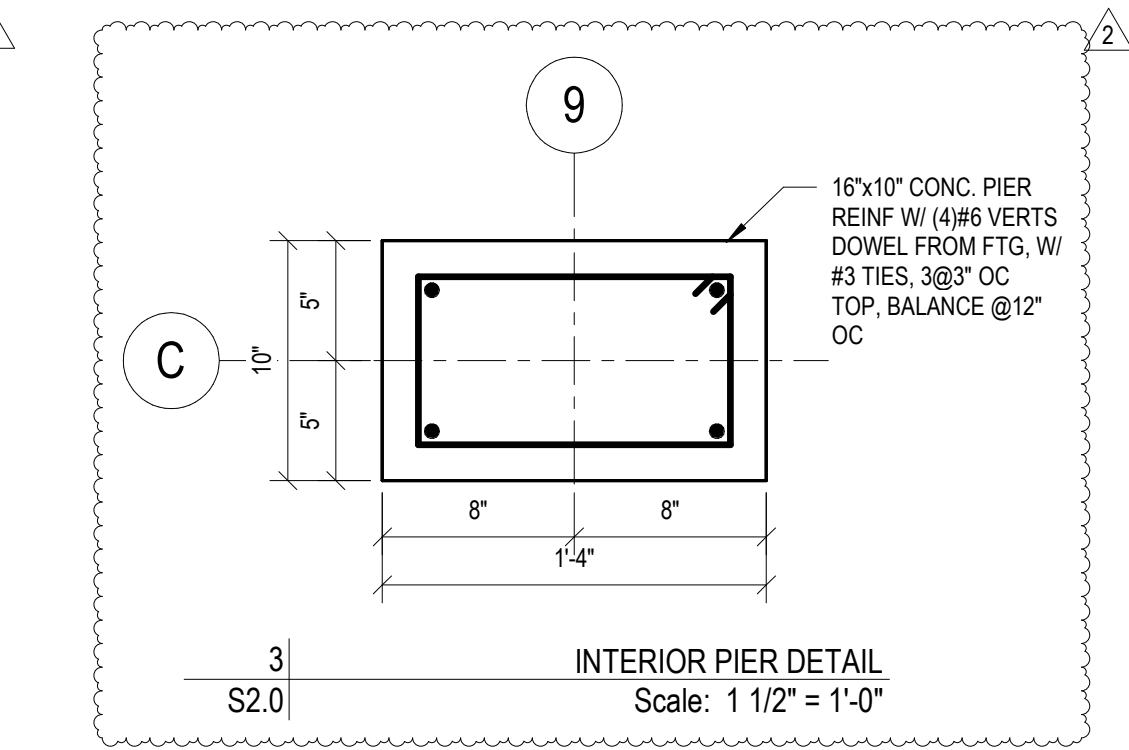
2 BUILDING SECTION (LOOKING SOUTH)
Scale: 1/4" = 1'-0"



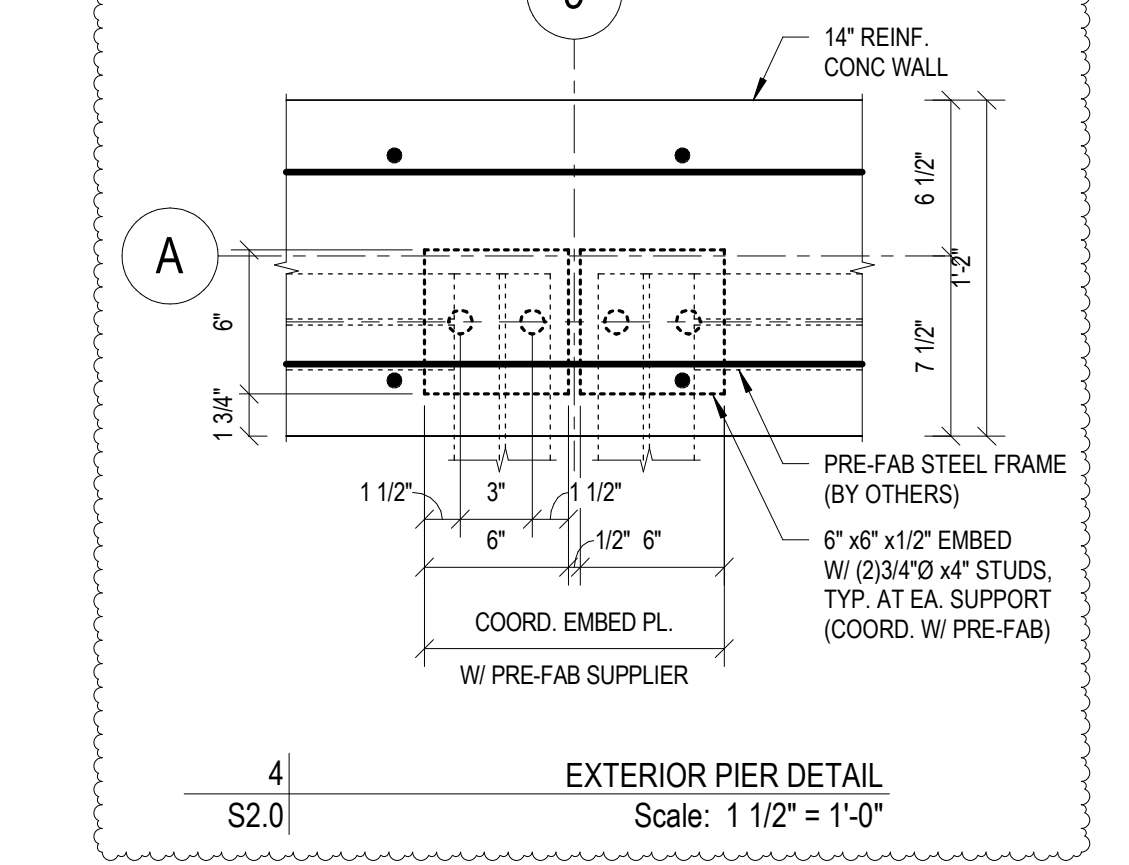
6 FOUNDATION DETAIL AT INTERIOR PIER
Scale: 3/4" = 1'-0"



5 FOUNDATION DETAIL AT EXTERIOR WALL
Scale: 3/4" = 1'-0"



3 INTERIOR PIER DETAIL
Scale: 1 1/2" = 1'-0"



4 EXTERIOR PIER DETAIL
Scale: 1 1/2" = 1'-0"

MICHIGAN DESIGN CODES:

BU	2015	MICHIGAN BUILDING CODE
ME	2015	MICHIGAN MECHANICAL CODE
PL	2018	MICHIGAN PLUMBING CODE
EL	2017	NFPA - 70 NATIONAL ELECTRICAL CODE
EN	2015	MICHIGAN ENERGY CODE (2013 ASHRAE)
FR	2015	MICHIGAN BUILDING CODE
FG	2015	INTERNATIONAL FUEL GAS CODE
AC	2015	MICHIGAN BUILDING CODE
LS	2015	MICHIGAN CODE

M-MISCELLANEOUS:

4 FIRE SPRINKLER: N.F.P.A. "LIGHT HAZARD" SPRINKLER SYSTEM:
 - SCHED. 40 BLACK OR GALV. STEEL PIPE;
 - 165°F EXPOSED HEADS W/SCOUTCHIONS ABOVE AND BELOW CEILING
 - CROSS-SEAM PIPING BY OTHERS ON SITE.
 - FACTORY-INSTALLED PIPING STUBBED THRU EXTERIOR WALL; ALARM, RISER, AND FLOW SWITCH BY OTHERS ON SITE.
 - SPRINKLER SYSTEM (INCL. SITE-WORK) TO BE BY LICENSED FIRE-PROTECTION CONTRACTOR.

UNIT LABELS:

THIRD PARTY LABEL
 DATA PLATES AND LABELS LOCATED ABOVE SUSPENDED CEILING ON THE "FRONT" WALL OF THE MODULE
 MBI LABEL
 LIST STATE LABELS HERE

SEALED DRAWINGS:

MI

MODEL APPROVAL:

REGISTERED ARCHITECT
 FOR THE STATE OF MICHIGAN

BUILDING INFORMATION:

BUILDING USE GROUP ----- E
 TYPE OF CONSTRUCTION ----- VB (WOOD FRAME - PROTECTED)
 SQUARE FOOTAGE ----- 15857 SQ FT
 OCCUPANT LOAD OF BUILDING ----- 317, OR LESS

BUILDING DESIGN LOADS:

FLOOR LIVE LOAD UNIFORM ----- 50 PSF
 FLOOR LIVE LOAD CONCENTRATED ----- 2000 LBS
 FLOOR IMPACT LOAD ----- N/A LBS
 FLOOR LIVE LOAD (CORRIDOR) ----- 100 PSF
 FLOOR DEAD LOAD ----- 10 PSF
 ROOF LIVE LOAD (SNOW) ----- 30 PSF
 ROOF DEAD LOAD ----- 10 PSF
 GROUND SNOW LOAD ----- 30 PSF
 FLAT ROOF SNOW LOAD ----- 21 PSF
 BUILDING RISK CATEGORY ----- III
 SNOW IMPORTANCE FACTOR Is ----- 1.1
 SEISMIC IMPORTANCE FACTOR Ie ----- 1.25
 SNOW EXPOSURE FACTOR ----- 1.00
 THERMAL FACTOR ----- 1.0
 BASIC WIND SPEED ----- 115 MPH
 WIND EXPOSURE ----- C
 DESIGN WIND PRESSURE ----- SEE WIND/SEISMIC CALC
 SPECTRAL RESPONSE COEFFICIENT S_{RS} ----- 0.087
 SPECTRAL RESPONSE COEFFICIENT S_{RS1} ----- 0.072
 SITE CLASS ----- D
 BASIC SEISMIC-FORCE-RESISTING SYSTEM ----- A-13
 DESIGN BASE SHEAR ----- SEE WIND/SEISMIC CALC
 SEISMIC DESIGN CATEGORY ----- B

GENERAL SPECIFICATION NOTES:

- BUILDING NOT TO BE LOCATED IN A DESIGNATED FIRE ZONE.
- THIS BUILDING SHALL BE LOCATED MORE THAN 10 FEET AWAY FROM ANY PROPERTY LINE OR ANY INTERIOR LOT LINE BETWEEN IT AND ANY OTHER BUILDING.
- THIS BUILDING NOT TO BE LOCATED IN A FLOOD PRONE AREA.
- WHITLEY MFG. CO., INC. IS NOT RESPONSIBLE FOR THE LOCAL BUILDING CODE REQUIREMENTS OVER AND ABOVE THE ENCLOSED SPECIFICATIONS. THE SPECIFICATIONS ARE BASED ON THE DESIGN PARAMETERS OF THE CODES LISTED ABOVE.
- DRINKING FOUNTAINS AND SERVICE SINKS SHALL BE PROVIDED AND INSTALLED BY OTHERS ON SITE. BOTTLED WATER MAY BE PROVIDED IN LIEU OF A DRINKING FOUNTAIN.
- DUPLICATES OF THIS BUILDING CAN BE BUILT AS A MIRROR IMAGE
- DUPLICATES OF THIS BUILDING CAN BE BUILT AS A SHELL
- THIS BUILDING DOES NOT HAVE FIRE-RATED EXTERIOR WALLS.
- THIS BUILDING SHALL NOT BE LOCATED IN AREAS WITH SNOW, WIND, AND/OR SEISMIC LOADS IN EXCESS OF THOSE NOTED ABOVE IN BUILDING DESIGN LOADS.

BUILDING CODES:

- ATTIC VENTILATION SHALL COMPLY WITH APPLICABLE CODES.
- ALL LOCKS TO BE UNLOCKABLE FROM INTERIOR WITHOUT THE USE OF A KEY.
- CORROSION RESISTANT FLASHING REQUIRED AT TOP AND SIDES OF DOORS, WINDOW, AND ROOF PENETRATORS.
- SAFETY GLAZING SHALL BE INSTALLED PER APPLICABLE CODES.
- EXTERIOR EGRESS ELEMENTS TO BE SITE PROTECTED FROM SNOW AND ICE ACCUMULATION.
- DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS INCLUDING ALL ADA REQUIRED STEPS, RAMPS, HANDRAILS, PARKING, ETC. AND APPLICABLE SIGNAGE (INTERIOR AND EXTERIOR) FOR THE VISUALLY IMPAIRED AND NON-AMBULATORY

BUILDING CODE FIELD NOTES:

- TIE-DOWN ANCHORING TO BE INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
- PLUMBING AND ELECTRICAL CONNECTIONS TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
- ALL ADA REQUIRED STEPS, RAMPS, HANDRAILS, PARKING, ETC... AND APPLICABLE SIGNAGE. (INTERIOR AND EXTERIOR) FOR THE VISUALLY IMPAIRED AND NON-AMBULATORY TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.

ELECTRICAL :

- ALL RECEPTACLES TO BE GROUNDING TYPE.
- ALL WIRING TO BE PER N.E.C. TYPE MC METAL CLAD CABLE, THHN COPPER w/ GROUND; 90°C RATED.
- MAIN PANEL TO BE MARKED "SUITABLE FOR USE AS SERVICE EQUIPMENT," AND TO HAVE MAIN BREAKER TYPE OVERCURRENT PROTECTION.
- PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
- DISCONNECTING MEANS WITHIN SIGHT REQUIRED FOR ALL MOTORS.
- WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS AND RECEPTACLES.
- PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT.
- ALL FLUORESCENT FIXTURES REQUIRE THERMAL PROTECTION.
- COMBINATION EXHAUST FANLIGHT AND ALL RECESSED INCANDESCENT FIXTURES TO BE WITH THERMAL PROTECTION.
- ALL EMERGENCY LIGHTING (IF REQUIRED) AND EXIT SIGNS WILL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES PER NEC SECTION 700-12 (f).
- ALL EMERGENCY LIGHTING HAS A BATTERY PACK TO ASSURE CONTINUED ILLUMINATION.
- GROUNDING ELECTRODE SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250 N.E.C.
- MAIN DISTRIBUTION PANEL(S) SHALL BE INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
- SERVICE ENTRANCE CONDUCTORS TO BE MINIMUM 75c RATED TYPE THWN COPPER
- WATER HEATER (IF APPLICABLE) TO HAVE LOCKABLE BREAKER OR PROVIDE DISCONNECTING MEANS WITHIN SIGHT OF W.H. PER NEC 422.21 (b)
- RECEPTS UP 18" TO BOTTOM OF BOX.

ELECTRICAL FIELD NOTES:

- ELECTRICAL SERVICE ENTRANCE CONDUCTORS TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.
- GROUNDING ELECTRODES TO BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.

MECHANICAL :

- VENTILATION AIR, EXHAUST FANS AND VENTING EQUIPMENT PROVIDED IN ACCORDANCE WITH APPLICABLE CODES.
- EXHAUST FANS TO BE INSTALLED PER APPLICABLE CODES.
- RETURN AIR VIA RETURN AIR DUCT OR THRU GRILLE AT UNIT.
- RETURN AIR VIA CEILING CAVITY PLENUM.
- MECHANICAL VENTILATION PER APPLICABLE CODES.
- DUCT COVERINGS SHALL COMPLY WITH APPLICABLE CODES.
- DUCTS SHALL BE CONSTRUCTED PER APPLICABLE CODES.

STRUCTURAL :

- TRUSSES, IF INSTALLED, TO BE DESIGNED FOR REQUIRED LOADS AND APPLICATION.
- INTERIOR PARTITIONS TO BE CONSTRUCTED TO WITHSTAND A 5 PSF HORIZONTAL FORCE.
- ALL LUMBER TO BE GRADED AND MARKED.
- COMPRESSION PLATES REQUIRED TO ENSURE WOOD TO WOOD CONTACT @ BEARING WALL TO ROOF JOINTS.
- DADOS AND NOTCHING SHALL NOT OCCUR IN CENTER 1/3 OF LENGTH OF WALL STUDS STUDS
- EXTERIOR BRACING MAY BE PROVIDED WITH WOOD SIDING, 7/16" HARDBOARD SIDING, 3/8" CDX PLYWOOD W/ EXTERIOR GLUES, OR ANY APPROVED STRUCTURAL GRADE SHEATHING.

DWV:

- DWV PIPING TO BE SCHEDULE 40 PVC.
- PVC PIPE TO BE SECURED @ 4'-0" O.C. HORIZONTALLY & 5'-0" O.C. VERTICALLY FOR 2" DIA. AND SMALLER PIPE OR 10'-0" O.C. VERTICALLY FOR PIPE LARGER THAN 2" DIA.
- ALL CLEAN-OUTS SHALL BE ACCESSIBLE, PROVIDED @ THE BASE OF ALL WASTE AND SOIL STACKS. AND PROVIDED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED BY A CLEANOUT TOOL WITHOUT PASSING THROUGH MORE THAN 45 DEGREES OF TURN.
- HORIZONTAL BRANCH PIPES 2 1/2" AND SMALLER IN DIAMETER TO HAVE A MINIMUM 1/4" PER FOOT SLOPE; PIPES 3" TO 6" DIAMETER TO HAVE A MINIMUM OF 1/8" PER FOOT SLOPE.
- VENTS SHALL BE A MINIMUM OF 3" IN DIAMETER FOR 12" ABOVE AND 24" BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' HORIZONTALLY OF ANY BUILDING AIR INTAKE OPENING.
- ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGE OF DIRECTION SHALL BE THROUGH A LONG TURN T-Y OR COMBINATION WYE AND EIGHTH BEND.
- ALL HORIZONTAL TO VERTICAL CHANGE OF DIRECTION SHALL BE THROUGH A SANITARY TEE, OR IF @ THE SAME LEVEL ON A VERTICAL STACK, THROUGH AN APPROVED DOUBLE FIXTURE FITTING.
- IN CONCEALED LOCATIONS AT PLUMBING PIPING, PROTECTIVE SHIELD PLATES SHALL BE INSTALLED THAT ARE A MINIMUM 1/16" THICK STEEL AND SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

SUPPLY:

- WATER SUPPLY LINES TO BE PEX.
- PEX PIPE 1" DIA., OR SMALLER, TO BE SECURED @ 2'-8" O.C. HORIZONTALLY. COPPER PIPE LARGER THAN 1" DIA., TO BE SECURED @ 4'-0" O.C. HORIZONTALLY. PEX PIPE 2" DIA., OR SMALLER, TO BE SECURED @ 5'-0" O.C. VERTICALLY. PEX PIPE LARGER THAN 2" DIA. TO BE SECURED @ 10'-0" O.C. VERTICALLY.
- WATER TEMPERATURE FACTORY SET @ 120 DEGREES F. (CONTROLS BEHIND COVER PANEL.)
- A SHUT-OFF VALVE IS REQUIRED FOR EACH FIXTURE.
- WATER HAMMER ARRESTORS SHALL BE PROVIDED AS REQUIRED WITH QUICK-CLOSING VALVES.
- WATER HEATER TO BE EQUIPPED WITH DRAIN COCK.
- DIELECTRIC UNIONS TO BE USED @ CONNECTIONS OF WATER LINES TO WATER HEATER.
- COLD WATER INLET TO HAVE A SHUT-OFF VALVE ABOVE FLOOR & NEAR WATER HEATER.
- FULL SIZE SHUT-OFF VALVE TO BE PROVIDED BETWEEN BUILDING & WATER MAIN (METER).
- SUPPLY SYSTEM DESIGNED FOR INLET PRESSURES OF 60 TO 80 PSI.
- WATER HEATERS WITH BOTTOM AND/OR SIDE INLET SHALL HAVE A VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER INLET LINE, LOCATED ABOVE THE TOP OF THE WATER HEATER. PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS.
- IN CONCEALED LOCATIONS AT PLUMBING PIPING, PROTECTIVE SHIELD PLATES SHALL BE INSTALLED THAT ARE A MINIMUM 1/16" THICK STEEL AND SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

FIELD NOTE:

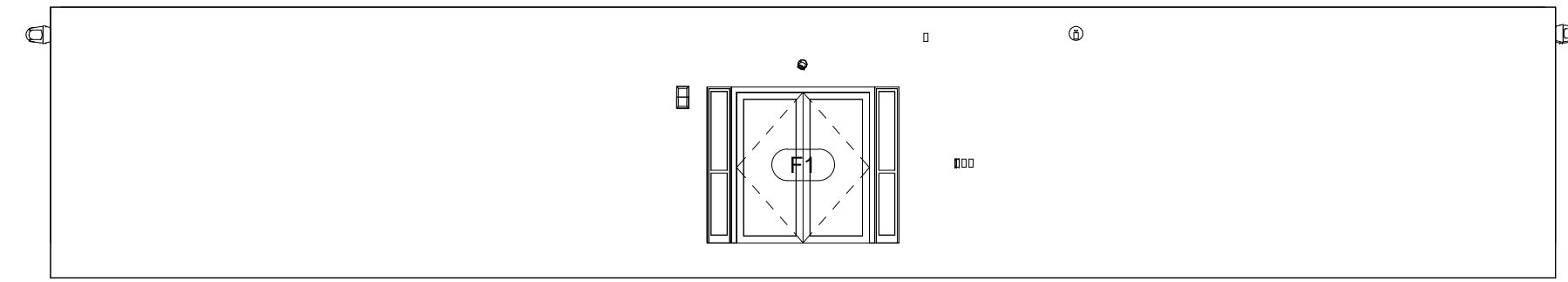
- ALL LINES REPRESENTED BY A BROKEN LINE ON SCHEMATIC DRAWINGS SHALL BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.

FOR REFERENCE

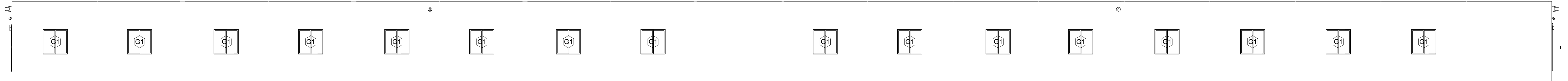
No.	Description	Date	No.	Description	Date
				THIS DRAWING AND ALL INFORMATION CONTAINED HEREON IS THE PROPERTY OF WHITLEY MFG. CO., INC. AND IS NOT TO BE REPRODUCED WITHOUT THE EXPRESS PERMISSION OF WHITLEY MFG. CO., INC. WHITLEY MFG. CO., INC. ASSUMES NO RESPONSIBILITY FOR UNAUTHORIZED USE OF THIS DRAWING.	
				WHITLEY MFG. CO. INC. 201 WEST FIRST STREET P.O. BOX 496 SOUTH WHITLEY, IN 46787 PHONE: 260.723.5131 FAX: 260.723.6396 www.whitleyman.com	Whitley East LLC 64 HESS ROAD LEGA, PA 17640 PHONE: 717.656.2081 Whitley Mfg. Co., Inc. dba: Modular Builders 2758 & 3089 E. FORT WAYNE ROAD P.O. BOX 505 ROCHESTER, IN 46875 PHONE: 574.223.4834
				Drawn By: RLH Checked By: AP/DL Rev:	Date: 3-5-24 Scale: 1/4" = 1'-0" Page No: A0.0
				Serial No: 5448-5465 Quote No: 50589C-18 Model No: 8092 Job No: 2024-005-WR	COVER SHEET MOBILE MODULAR PATTENGILL BIOTECHNICAL MAGNET SCHOOL (13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

4/5/2024 4:17:38 PM

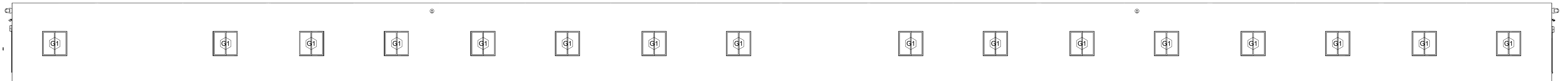
A-FRAME		NOTE: FRAME(S) TO BE MIG WELDED, INCLUDING SPRING HANGER ATTACHMENT AND HITCH CONSTRUCTION	F-DOORS		1 EXT. DOOR:	72"W X 84"H COMMERCIAL GLASS DOOR W/ SIDELITES R.O. 110 1/4" X 88"	F-DOORS CONT.:		7 EXT. DOOR:	36"W X 80"H FLUSH FRP DOOR IN ALUMINUM FRAME R.O. 37 3/4"W X 80 3/4" FRAME THROAT: 6 3/4"	H-ELECTRICAL:		1 PANEL BOARD:	208/120 V 3-PH. 60Hz 4-WIRE MAIN SIZED AS REQUIRED
1	TYPE:	W12"x14# BEAM	HARDWARE SET 1:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (112XY) CONTINUOUS HINGE	2	SERV. ENT.:	2" CONDUIT STUBBED THRU FLOOR	
2	MAIN BEAM:	W12"x14# BEAM	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP	3	WIRING:	MC CABLE W/ INTERLOCKING TAPE SHEATH (R12 MIN WIRE SIZE) - TYPE THHN 900C	
3	X-MEMBER:	W10 X 12# @ 48" O.C.	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP EDA) SURFACE CLOSER	3a	CROSS-SEAM WIRING:	PIGTAIL AND JUNCTION BOX	
4	HITCH:	BOLT ON	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP-18PA) PA MOUNTING PLATE	4	INT. LIGHTS:	24" X 48" L.E.D. (LAY-IN) W/ DIFFUSER AND EMERGENCY BALAST	
5	AXLES:	AS REQUIRED	e:	IVES (VR914 NL) DOOR PULL	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	f:	LCN (4040XP-18PA) PA MOUNTING PLATE	f:	ZERO-INTERNATIONAL (8192AA) DOOR SWEEP	5	INT. LIGHTS:	24" X 48" L.E.D. (LAY-IN) W/ DIFFUSER	
6	SPRINGS:	MULTI-LEAF, OVERSLUNG	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	g:	LCN (4642) SURF. AUTO OPERATOR	g:	LCN (8310-853T) WALL MOUNT ACTUATOR	g:	ZERO-INTERNATIONAL (655 A) THRESHOLD SENTINEL (1076D-G) DOOR CONTACT	6	EXT. LIGHTS:	LED WALL PACK	
7	TIRES:	8:00 X 14.5, 14 PLY	g:	LCN (4642) SURF. AUTO OPERATOR	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	h:	SCHLAGE (CON-XXXXP) WIRE HARNESS	h:	ELECTRIFIED HARDWARE TO POWER TRANSFER	7	EGRESS LIGHTS:	EXT/EMERGENCY LIGHT W/ BATTERY PACK & EXTERIOR REMOTE HEAD (W.P.) - UP 84" TO BOTTOM	
8	MISC:	1 BEAM CLAMPS 15" O" O.C. MAX. (SHIP-LOOSE)	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	i:	LCN (8310-867S) SURFACE MOUNT BOX	i:	ZERO INTERNATIONAL (8192AA) DOOR SWEEP	i:	ZERO-INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	8	RECEPTS:	125V/20A DUPLEX	
9	MISC:	THIS UNIT WILL HAVE STEEL TUBE COLUMNS	i:	ZERO INTERNATIONAL (8192AA) DOOR SWEEP	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	ZERO-INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	ELECTRIFIED HARDWARE TO POWER TRANSFER	9	RECEPTS:	125V/20A DUPLEX GFCI - UP 18" TO BOTTOM OF BOX UNLESS NOTED OTHER-WISE	
10	MISC:	RUST INHIBITIVE LATEX TYPE PAINT, BLACK. 100% COVERAGE OF STRUCTURAL MEMBERS.	j:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	ELECTRIFIED HARDWARE TO POWER TRANSFER	10	RECEPTS:	125V/20A DUPLEX GFI (DEDICATED), INSTALLED BELOW FLOOR	
11	UNDER COATING:	RUST INHIBITIVE LATEX TYPE PAINT, BLACK. 100% COVERAGE OF STRUCTURAL MEMBERS.	k:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	ELECTRIFIED HARDWARE TO POWER TRANSFER	11	RECEPTS:	125V/20A QUAD - UP 18" TO BOTTOM OF BOX UNLESS NOTED OTHER-WISE	
B-FLOOR		FS-25, CLASS A, SHEPWEAVE II R-30 KRAFT FACED FIBERGLASS BATT 2 X 8 (#2 SPF) AT 16-IN O.C. NOMINAL LONGITUDINAL JOISTS (NO WHEEL WELLS)	HARDWARE SET 2:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (5BB1HW 4.5 X 4.5) HINGES	12	RECEPTS:	125V/20A QUAD - UP 18" TO BOTTOM OF BOX UNLESS NOTED OTHER-WISE	
1	BOTTOM BOARD:	FS-25, CLASS A, SHEPWEAVE II R-30 KRAFT FACED FIBERGLASS BATT 2 X 8 (#2 SPF) AT 16-IN O.C. NOMINAL LONGITUDINAL JOISTS (NO WHEEL WELLS)	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP	13	SWITCHES:	120V/20A SINGLE POLE - UP 44" TO BOTTOM	
2	INSULATION:	R-30 KRAFT FACED FIBERGLASS BATT 2 X 8 (#2 SPF) AT 16-IN O.C. NOMINAL LONGITUDINAL JOISTS (NO WHEEL WELLS)	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP RW/PA TBSRT) CLOSER	14	SWITCHES:	120V/20A 3-WAY - UP 44" TO BOTTOM	
3	JOISTS:	2 X 8 (#2 SPF) AT 16-IN O.C. NOMINAL LONGITUDINAL JOISTS (NO WHEEL WELLS)	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP-18PA) PA MOUNTING PLATE	15	SWITCHES:	120V OCCUPANCY/VACANCY SENSOR, WALL-MOUNTED - UP 44" TO BOTTOM	
4	DECKING:	3/4" T&G UNDERLAYMENT PLYWOOD (RATED 48/24) (HOLD BACK DECKING 10 1/2" AT MATELINE)	e:	IVES (VR914 NL) DOOR PULL	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	f:	LCN (4040XP EDA) CLOSER	f:	ZERO INTERNATIONAL(488S) GASKETING	16	DATA DROPS:	2X4 JUNCTION BOX, UP 18" TO BOTTOM, UNLESS OTHER-WISE NOTED	
5	COVERING:	NONE	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	g:	LCN (4642) SURF. AUTO OPERATOR	g:	LCN (8310-853T) WALL MOUNT ACTUATOR	g:	SCHLAGE (CON-XXXXP) WIRE HARNESS	17	DATA DROPS:	2X4 JUNCTION BOX, UP 84" TO BOTTOM, FOR SOUND FIELD DEVICES	
5a	COVERING:	EPOXY FLOORING WITH INTEGRAL BASE IN BATHS ONLY	g:	LCN (4642) SURF. AUTO OPERATOR	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	h:	SCHLAGE (CON-XXXXP) WIRE HARNESS	h:	ELECTRIFIED HARDWARE TO POWER TRANSFER	18	DATA DROPS:	2X4 JUNCTION BOX, UP 96" TO BOTTOM, FOR DIGITAL CLOCK	
C-EXTERIOR WALLS		AT OPEN MATELINE AREAS TO BE COVERED W/VISQUEEN, INSTALL PANELING STRIPS @ 2" O.C. VERTICALLY, FOR THE FIRST SIX- FEET LENGTH OF OPEN AREA	HARDWARE SET 3:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (5BB1HW 4.5 X 4.5) HINGES	19	DATA DROPS:	2X4 JUNCTION BOX, UP 96" TO BOTTOM, FOR SECURITY CAMERA	
1	STUDS:	2 X 6 (SPF STUD) @ 16" O.C.	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP	20	DATA DROPS:	2X4 JUNCTION BOX, UP 96" TO BOTTOM, FOR SECURITY CAMERA	
2	SIDE WALL HT.:	9'-7 5/16" STUD LENGTH: 110 13/16 IN.	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP RW/PA TBSRT) CLOSER	21	DATA DROPS:	2X4 JUNCTION BOX, UP 42" TO BOTTOM, FOR VIDEO INTERCOM	
3	END WALL HT.:	9'-7 5/16" STUD LENGTH: 110 13/16 IN.	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP RW/PA TBSRT) CLOSER	22	DATA DROPS:	2X4 JUNCTION BOX, UP 120" TO BOTTOM, FOR PA SPEAKER	
4	WDBL STUDS EACH END OF SIDEWALLS (SPF #3):	WDBL STUDS EACH END OF SIDEWALLS (SPF #3):	e:	IVES (VR914 NL) DOOR PULL	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	f:	LCN (4040XP EDA) CLOSER	f:	ZERO INTERNATIONAL(488S) GASKETING	23	DATA DROPS:	2X4 JUNCTION BOX, UP 120" TO BOTTOM, FOR PA HORN	
5	SGL JAMBSTUD AT DOORS & WINDOWS (SPF #2):	SGL JAMBSTUD AT DOORS & WINDOWS (SPF #2):	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	g:	LCN (4642) SURF. AUTO OPERATOR	g:	LCN (8310-853T) WALL MOUNT ACTUATOR	g:	SCHLAGE (CON-XXXXP) WIRE HARNESS	24	CARD READER:	2X4 JUNCTION BOX, UP 42" TO BOTTOM, FOR PA HORN	
6	SGL JACKSTUD UNDER WINDOW HEADERS (SPF #2):	SGL JACKSTUD UNDER WINDOW HEADERS (SPF #2):	g:	LCN (4642) SURF. AUTO OPERATOR	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	h:	SCHLAGE (CON-XXXXP) WIRE HARNESS	h:	ELECTRIFIED HARDWARE TO POWER TRANSFER	25	PUSH BUTTON:	2X4 JUNCTION BOX, UP 42" TO BOTTOM, FOR PA HORN	
7	DBL JACKSTUD UNDER DOOR HEADERS (SPF #2):	DBL JACKSTUD UNDER DOOR HEADERS (SPF #2):	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	i:	LCN (8310-867S) SURFACE MOUNT BOX	i:	SCHLAGE (CON-XXXXP) WIRE HARNESS	i:	ELECTRIFIED HARDWARE TO POWER TRANSFER	26	FIRE ALARM:	REMOE POWER SUPPLY UP 44" TO BOTTOM	
8	W/DBL 2 X 4 HEADERS (SPF #2) [DBL 2 X 6 (SPF #2) HEADERS IF OVER 48" ROUGH OPENING]	W/DBL 2 X 4 HEADERS (SPF #2) [DBL 2 X 6 (SPF #2) HEADERS IF OVER 48" ROUGH OPENING]	i:	ZERO INTERNATIONAL (8192AA) DOOR SWEEP	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	ELECTRIFIED HARDWARE TO POWER TRANSFER	27	FIRE ALARM:	ROUGH-IN ONLY FOR PULL STATION -- 2x4 BOX UP 44" TO BOTTOM, w/3/4" CONDUIT TO CEILING CAVITY	
9	HEADERS IF OVER 48" ROUGH OPENING	HEADERS IF OVER 48" ROUGH OPENING	j:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	ELECTRIFIED HARDWARE TO POWER TRANSFER	28	FIRE ALARM:	ROUGH-IN ONLY FOR AUDIO/VISUAL DEVICE -- 4x4 BOX UP 80" TO BOTTOM, w/ 1/2" EMT	
10	INSTALL CONTINUOUS BLOCKING BETWEEN STUDS UP 102" TO BOTTOM OF BLOCK	INSTALL CONTINUOUS BLOCKING BETWEEN STUDS UP 102" TO BOTTOM OF BLOCK	k:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	ELECTRIFIED HARDWARE TO POWER TRANSFER	29	MISC:	2" CONDUIT STUBBED THRU WALL	
2	BOTTOM PLATE:	(1) 2 X 6 (#3 SPF)	HARDWARE SET 4:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (5BB1HW 4.5 X 4.5) HINGES	NOTE: SEE FIRE ALARM PLAN FOR EMT SIZE(S) & LAYOUT			
3	TOP PLATE:	(2) 2x6 (#3 SPF)	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP	NOTE: FIRE ALARM SYSTEM TO BE PROVIDED AND INSTALLED ON SITE BY OTHERS, NOT BY FACTORY.			
4	COVERING:	1/2" VINYL COV. GYP. BOARD (CLASS I F.S.)	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP RW/PA TBSRT) CLOSER	NOTE: ALL CONDUIT ROUGH-INS TO HAVE PULL WIRES INSTALLED.			
5	SHEATHING:	3/8" CDX PLYWOOD OR OSB (RATED 24/0)	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP RW/PA TBSRT) CLOSER				
5a	SHEATHING:	WATER/WEATHER-RESISTIVE BARRIER (TYVEK OR EQUAL) STAGGER SHEATHING SEAMS FROM INT. WALL COVERING SEAMS--SIDEWALLS ONLY	e:	IVES (VR914 NL) DOOR PULL	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	f:	LCN (4040XP EDA) CLOSER	f:	ZERO INTERNATIONAL(488S) GASKETING				
6	INSULATION:	R-21 KRAFT FACED FIBERGLASS BATT (R-9.3) 1 1/2" RIGID FOAM INSULATION	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	g:	LCN (4642) SURF. AUTO OPERATOR	g:	LCN (8310-853T) WALL MOUNT ACTUATOR	g:	SCHLAGE (CON-XXXXP) WIRE HARNESS				
6a	INSULATION:	R-21 KRAFT FACED FIBERGLASS BATT (R-9.3) 1 1/2" RIGID FOAM INSULATION	g:	LCN (4642) SURF. AUTO OPERATOR	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	h:	SCHLAGE (CON-XXXXP) WIRE HARNESS	h:	ELECTRIFIED HARDWARE TO POWER TRANSFER				
7	SIDING:	NONE (BY OTHERS ON SITE)	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	i:	LCN (8310-867S) SURFACE MOUNT BOX	i:	SCHLAGE (CON-XXXXP) WIRE HARNESS	i:	ELECTRIFIED HARDWARE TO POWER TRANSFER				
9	SKIRTING:	NONE, SUPPLIED AND INSTALLED BY OTHERS ON SITE	i:	ZERO INTERNATIONAL (8192AA) DOOR SWEEP	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	ELECTRIFIED HARDWARE TO POWER TRANSFER				
D-INTERIOR WALLS		HOLD BACK COVERING AT MATE LINE	HARDWARE SET 5:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (5BB1HW 4.5 X 4.5) HINGES	J-PLUMBING:			
1	STUDS:	2 X 4 (SPF STUD) @ 16" O.C.	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP	1	WTR CLST:	TANK TYPE (HANDICAPPED) W/ ELONGATED BOWL AND OPEN FRONT SEAT - UP 18" TO SEAT	
2	INT. WALL HT.:	8'-6" STUD LENGTH: 97 1/2"	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP RW/PA TBSRT) CLOSER	2	MOD PART:	SOLID PLASTIC FLOOR MOUNTED OVERHEAD BRACED	
3	MT. WALL HT.:	9'-7 5/16" STUD LENGTH: 110 13/16"	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP RW/PA TBSRT) CLOSER	2a	MOD PART:	COLOR: 3010 DOVE GRAY	
4	COVERING:	1/2" VINYL COV. GYP. BOARD (CLASS I F.S.)	e:	IVES (VR914 NL) DOOR PULL	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	f:	LCN (4040XP EDA) CLOSER	f:	ZERO INTERNATIONAL(488S) GASKETING	3	URINAL SCREEN:	SOLID PLASTIC DEPTH-24"	
4b	COVERING:	ALTR TOEGULS SUBWAY PATTERN IN BATHS OVER 1/2" UNFINISHED GYPSUM	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	g:	LCN (4642) SURF. AUTO OPERATOR	g:	LCN (8310-853T) WALL MOUNT ACTUATOR	g:	SCHLAGE (CON-XXXXP) WIRE HARNESS	4	URINAL:	COLOR: 3010 DOVE GRAY	
5	INSULATION:	R-11 UNFACED FIBERGLASS BATT	g:	LCN (4642) SURF. AUTO OPERATOR	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	h:	SCHLAGE (CON-XXXXP) WIRE HARNESS	h:	ELECTRIFIED HARDWARE TO POWER TRANSFER	5	LAVATORY:	WALL HUNG W/ FLUSH VALVE & INTEGRAL TRAP	
E-ROOF		HOLD BACK COVERING AT SEAM LINE	HARDWARE SET 6:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (5BB1HW 4.5 X 4.5) HINGES	6	WTR HTR:	CHINA WALL HUNG UP 34" TO RIM	
1	RAFTERS:	2 X 10 (#2SPF) AT 16" O.C.	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP	7	FIRE ALARM:	ROUGH-IN ONLY FOR PULL STATION -- 2x4 BOX UP 44" TO BOTTOM, w/3/4" CONDUIT TO CEILING CAVITY	
2	MATE BEAM:	W10" X 22LB/FT MAX. SPAN: 30'	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP RW/PA TBSRT) CLOSER	8	FIRE ALARM:	ROUGH-IN ONLY FOR AUDIO/VISUAL DEVICE -- 4x4 BOX UP 80" TO BOTTOM, w/ 1/2" EMT	
3	NOTE:	INSTALL 12"L SECTIONS OF LUMBER IN WEB AS BLOCKING TO ATTACH ROOF SIDE RAIL	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP RW/PA TBSRT) CLOSER	9	SUPPLY:	INSULATE HOT WATER & HOT WATER RETURN PIPING; INSULATE COLD WATER PIPING IN CEILING CAVITY	
4	CEILING:	1/2" HOLES @ 32" O.C. IN BOTTOM FLANGE TO FASTEN SHIPPING WALLS	e:	IVES (VR914 NL) DOOR PULL	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	f:	LCN (4040XP EDA) CLOSER	f:	ZERO INTERNATIONAL(488S) GASKETING	10	DWV:	SCHEDULE 40 PVC	
5	TRUE CEILING:	BE PROTECTED w/ (2) LAYERS 5/8" TYPE-X GYPSUM BOARD (CLASS I F.S.)	f:	GLYNN-JOHNSON (100S) OVERHEAD STOP	g:	LCN (4642) SURF. AUTO OPERATOR	g:	LCN (8310-853T) WALL MOUNT ACTUATOR	g:	SCHLAGE (CON-XXXXP) WIRE HARNESS	14	MISC:	GRAB BARS (SEE FLOOR PLAN)	
5a	TRUE CEILING:	SUSPENDED T-GRID w/ 2' X 2' LAY-IN TILE	g:	LCN (4642) SURF. AUTO OPERATOR	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	h:	SCHLAGE (CON-XXXXP) WIRE HARNESS	h:	ELECTRIFIED HARDWARE TO POWER TRANSFER	16	MISC:	SIDE BAR: 42"L BACK BAR: 36"L VERTICAL BAR: 18"L	
6	INSULATION:	FINISH CEILING HT: 8'-6"	h:	LCN (8310-853T) WALL MOUNT ACTUATOR	i:	LCN (8310-867S) SURFACE MOUNT BOX	i:	SCHLAGE (CON-XXXXP) WIRE HARNESS	i:	ELECTRIFIED HARDWARE TO POWER TRANSFER	17	MISC:	HORIZONTAL GRAB BARS ARE UP 33"H TO 36"H TO TOP	
6a	INSULATION:	CEILING TILE, GRID TEES, & WALL ANGLE FOR MATE LINE SHIPPED LOOSE FOR INSTALLATION BY OTHERS ON SITE	i:	ZERO INTERNATIONAL (8192AA) DOOR SWEEP	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	SCHLAGE (CON-XXXXP) WIRE HARNESS	j:	ELECTRIFIED HARDWARE TO POWER TRANSFER	19	MISC:	VERTICAL BAR IS UP 38" - 41" TO BOTTOM	
7	SHEATHING:	CEILING TILE, GRID TEES, & WALL ANGLE FOR CORRIDOR SHIPPED LOOSE FOR INSTALLATION BY OTHERS ON SITE	j:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	SCHLAGE (CON-XXXXP) WIRE HARNESS	k:	ELECTRIFIED HARDWARE TO POWER TRANSFER	20	MISC:	18"Wx36"H STAINLESS STEEL EDGED MIRROR - UP 38"	
8	ROOFING:	CEILING TILE, GRID TEES, & WALL ANGLE FOR CORRIDOR SHIPPED LOOSE FOR INSTALLATION BY OTHERS ON SITE	k:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	SCHLAGE (CON-XXXXP) WIRE HARNESS	l:	ELECTRIFIED HARDWARE TO POWER TRANSFER	19	MISC:	TOILET PAPER DISPENSER - UP 24"	
11	VENTS:	CEILING TILE, GRID TEES, & WALL ANGLE FOR CORRIDOR SHIPPED LOOSE FOR INSTALLATION BY OTHERS ON SITE	l:	ZERO INTERNATIONAL (655A) THRESHOLD SCHLAGE (CON-XXXXP) WIRE HARNESS	m:	SCHLAGE (CON-XXXXP) WIRE HARNESS	m:	SCHLAGE (CON-XXXXP) WIRE HARNESS	m:	ELECTRIFIED HARDWARE TO POWER TRANSFER	20	MISC:	FIBERGLASS MOP BASIN	
F-DOORS		CEILING TILE, GRID TEES, & WALL ANGLE FOR CORRIDOR SHIPPED LOOSE FOR INSTALLATION BY OTHERS ON SITE	HARDWARE SET 7:		a:	IVES (112XY EPT) CONTINUOUS HINGE	HARDWARE:		a:	IVES (5BB1HW 4.5 X 4.5) HINGES	PVC FLOOR DRAIN 3" DIA. WITH TRAP PRIMER			
1	EXT. DOOR:	72"W X 84"H COMMERCIAL GLASS DOOR W/ SIDELITES R.O. 110 1/4" X 88"	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	b:	VON DUPRIN (EPT10 CON) POWER TRANSFER	c:	SCHLAGE (L9024 03A) EXIT LOCK	c:	GLYNN-JOHNSON (100S) OVERHEAD STOP				
3	INT. DOOR:	36"W X 80"H S.C. WOOD R.O. 37 3/4"W X 80 3/4"H (STEEL JAMBS) FRAME THROAT: 4 7/8"	c:	VON DUPRIN(LX-RX-QEL-98-NL-OP-110MD-CON) ELECTRIC PANIC	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	d:	SCHLAGE (80-035) SFC CONST. CORE	d:	LCN (4040XP RW/PA TBSRT) CLOSER				
4	INT. DOOR:	36"W X 80"H S.C. WOOD R.O. 37 3/4"W X 80 3/4"H (STEEL JAMBS) FRAME THROAT: 4 5/8"	d:	BEST (1E72 (LESS CORE) RIM CYLINDER	e:	IVES (VR914 NL) DOOR PULL	e:	GLYNN-JOHNSON (100S) OVERHEAD STOP	e:	LCN (4040XP RW/PA TBSRT) CLOSER				
5	INT. DOOR:	36"W X 80"H S.C. WOOD												



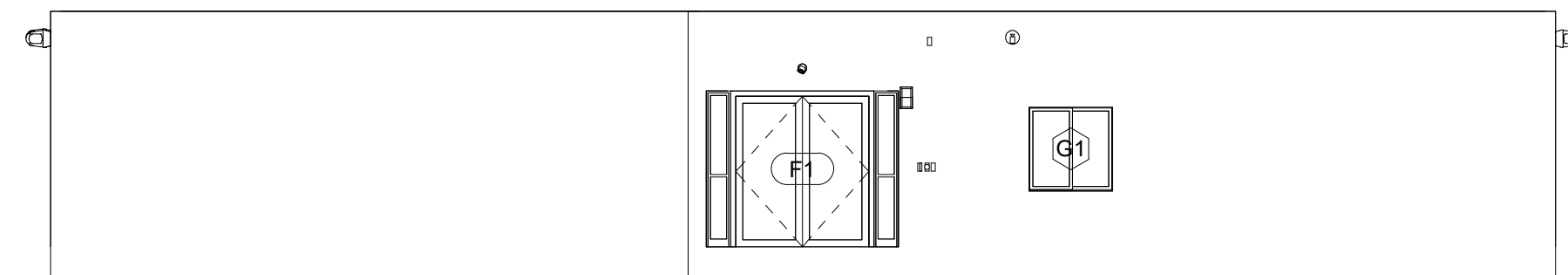
① South Elevation
1/8" = 1'-0"



② East Elevation
1/8" = 1'-0"



③ West Elevation
1/8" = 1'-0"



④ North Elevation
1/8" = 1'-0"

FOR REFERENCE

No.	Description	Date	No.	Description	Date

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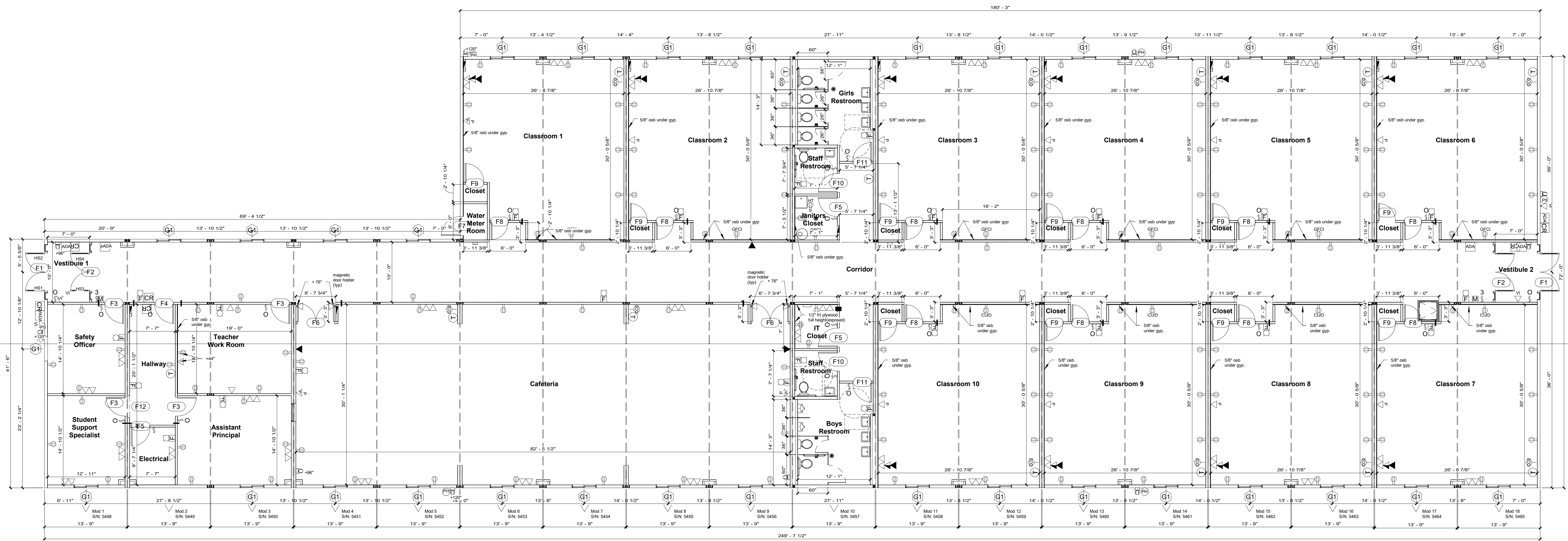
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AP/DL
Rev:

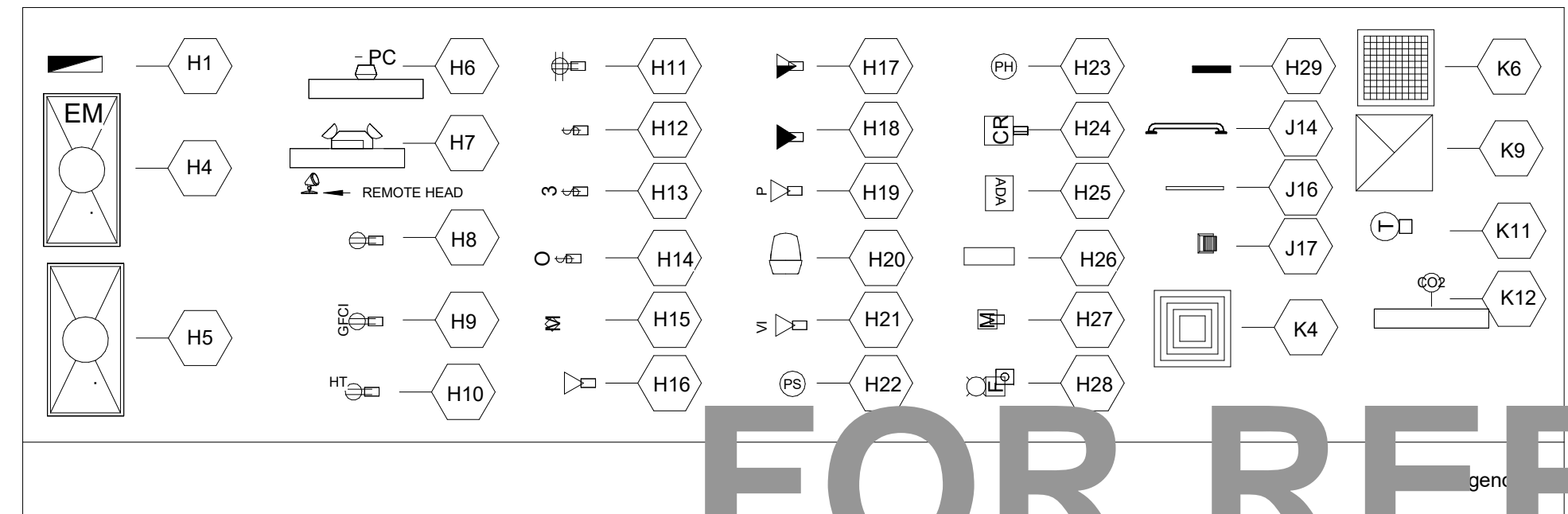
EXTERIOR ELEVATIONS

MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No.	5448-5465	Date:	3-5-24
Quote No.	50589C-18	Scale:	1/8" = 1'-0"
Model No.	8092	Page No.	A1.0
Job No.	2024-005-WR		



1 Floor Plan
1/8" = 1'-0"



Note: Identification hexagons on the drawings and in the symbol legend correspond to the project specifications (Sht AD-0). The letter in the hexagon matches the specification section, the number in the hexagon matches the section number.

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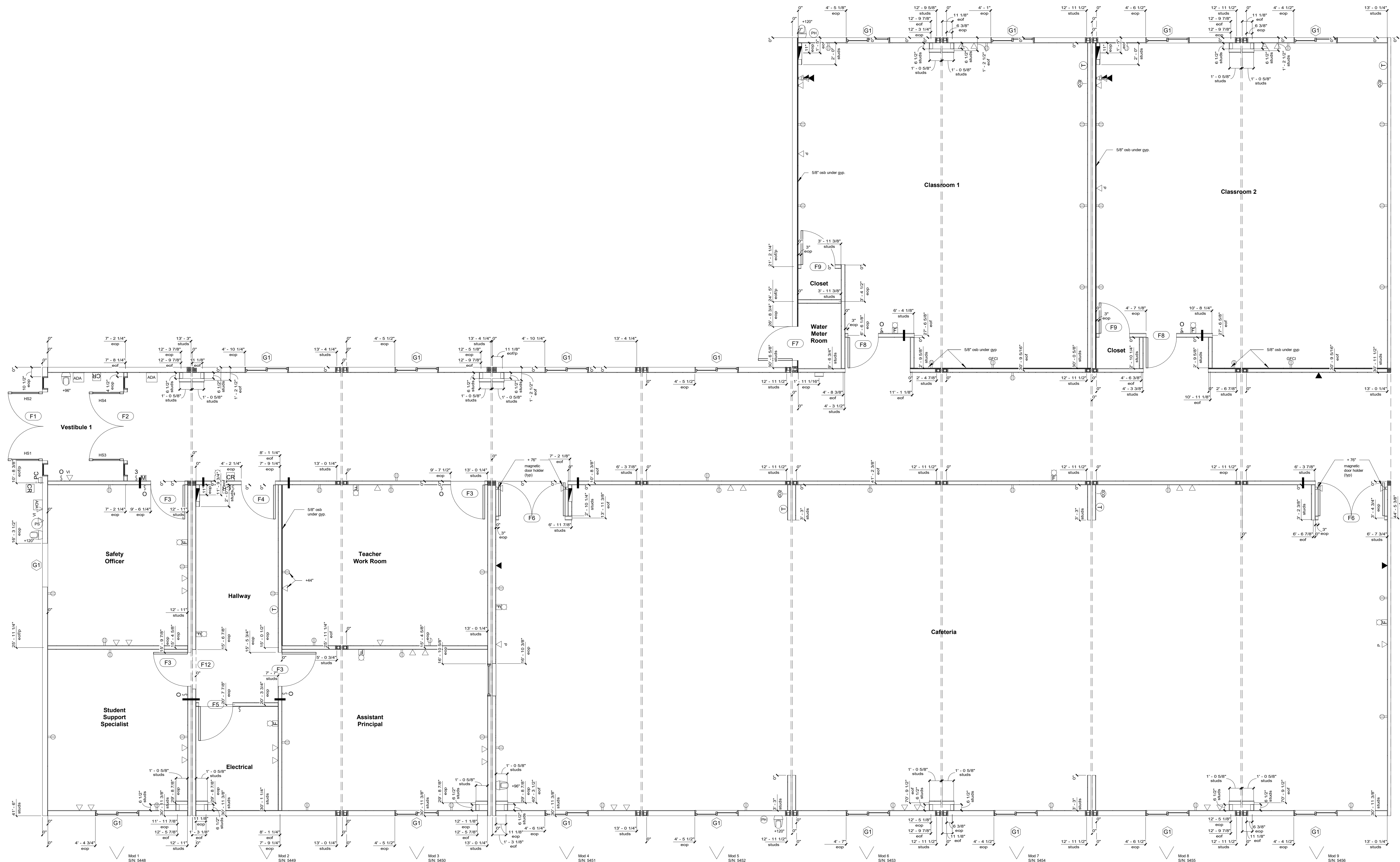
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dba: Modular Builders
2756 & 3089
E. FORT WAYNE ROAD
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PHONE: 574.223.4834

Drawn By: RLH	<p align="center">FLOOR PLAN</p> <p align="center">MOBILE MODULAR</p> <p align="center">PATTENGILL BIOTECHNICAL MAGNET SCHOOL</p> <p align="center">(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES</p>	Serial No. 5448-5465	Date: 3-5-24
Checked By: AP/DL		Quote No. 50589C-18	Scale: As indicated
Rev:		Model No. 8092	Page No. A2.1
		Job No. 2024-005-WR	



1 Production Floor Plan Mods 1-9
1/4" = 1'-0"

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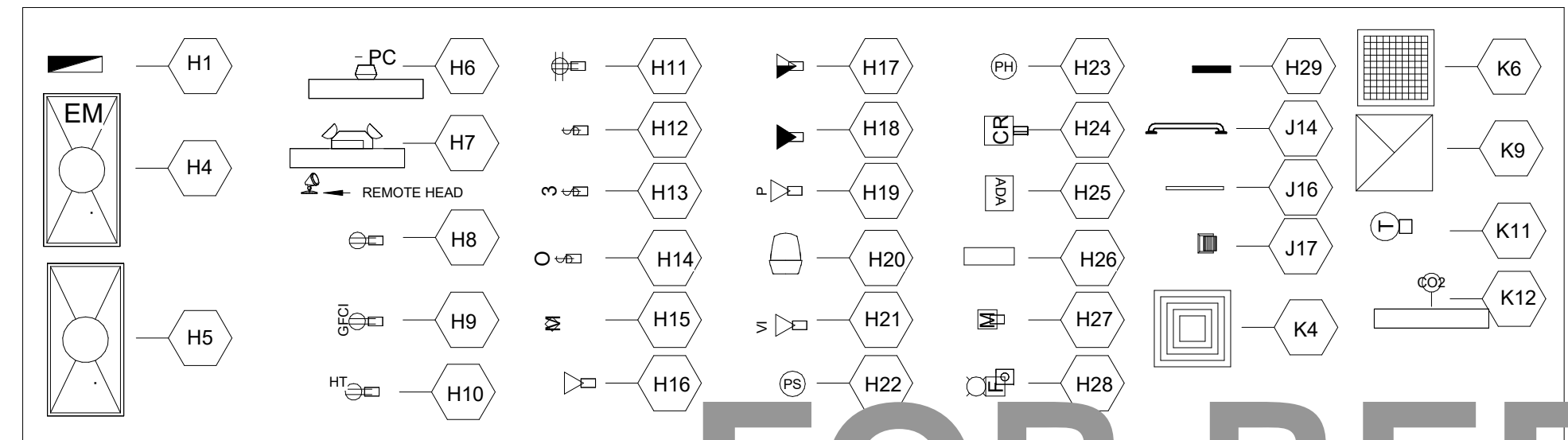
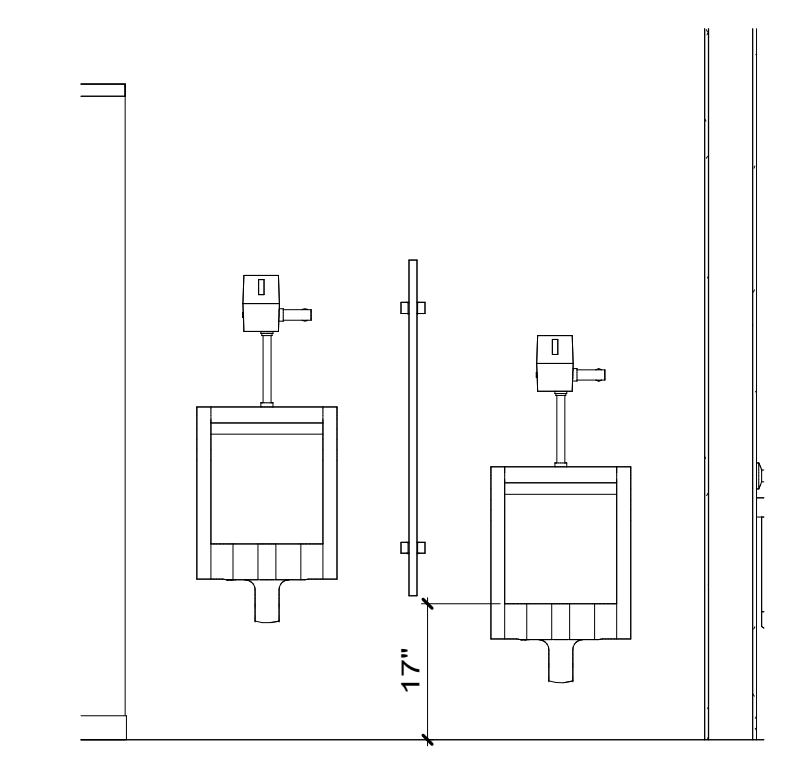
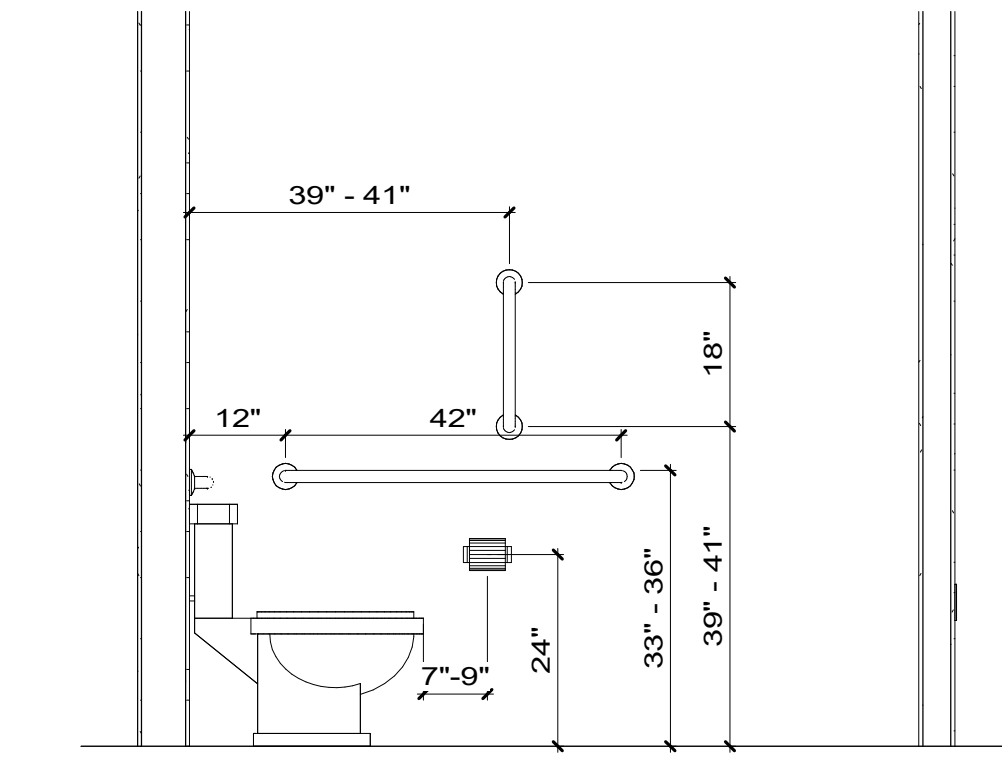
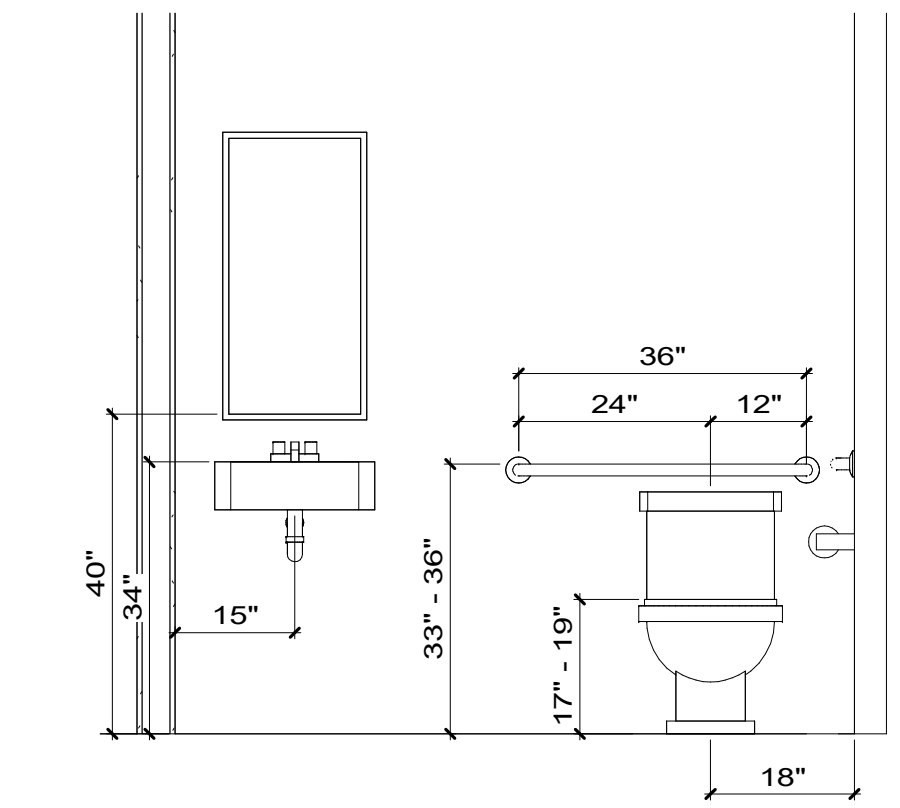
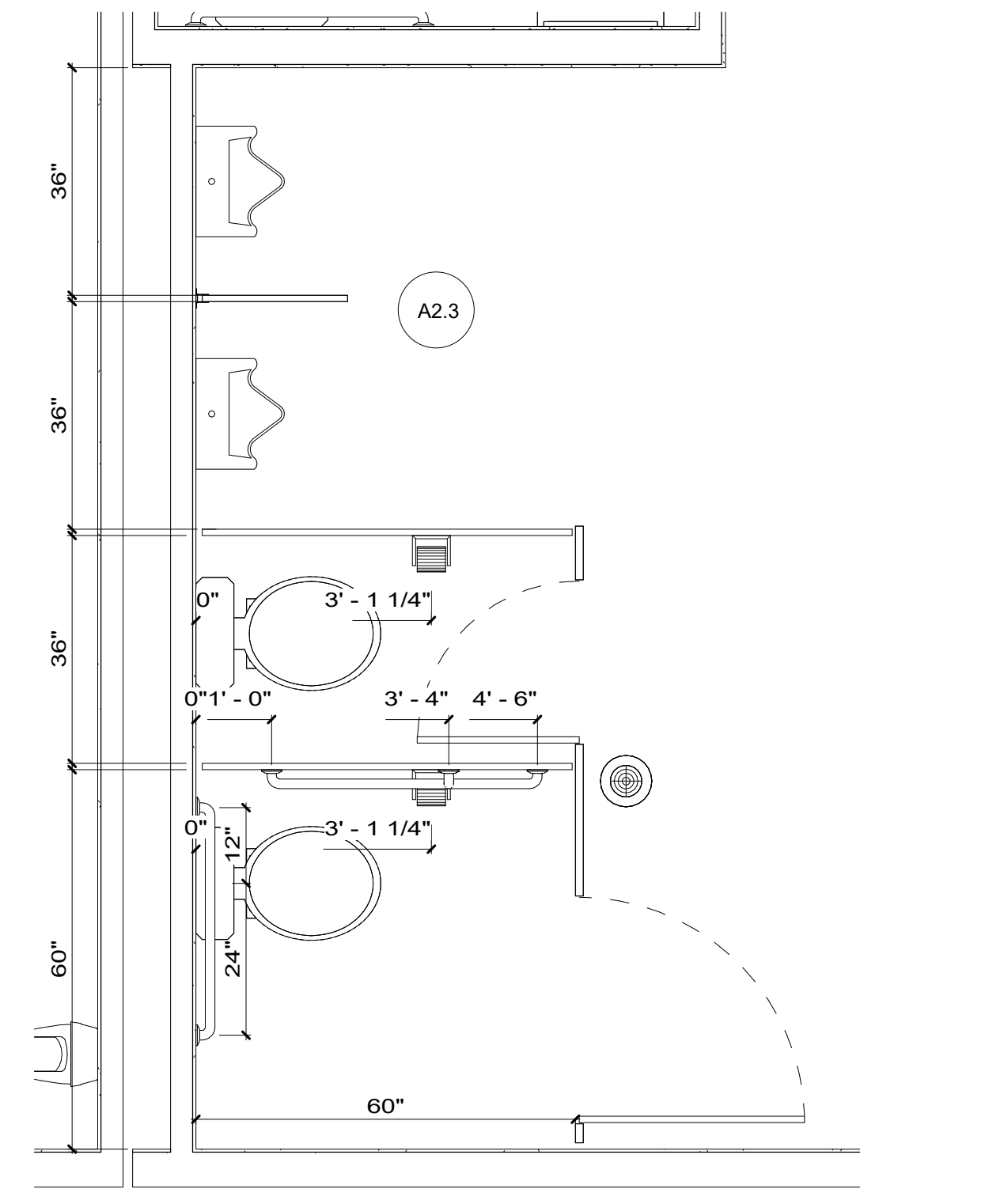
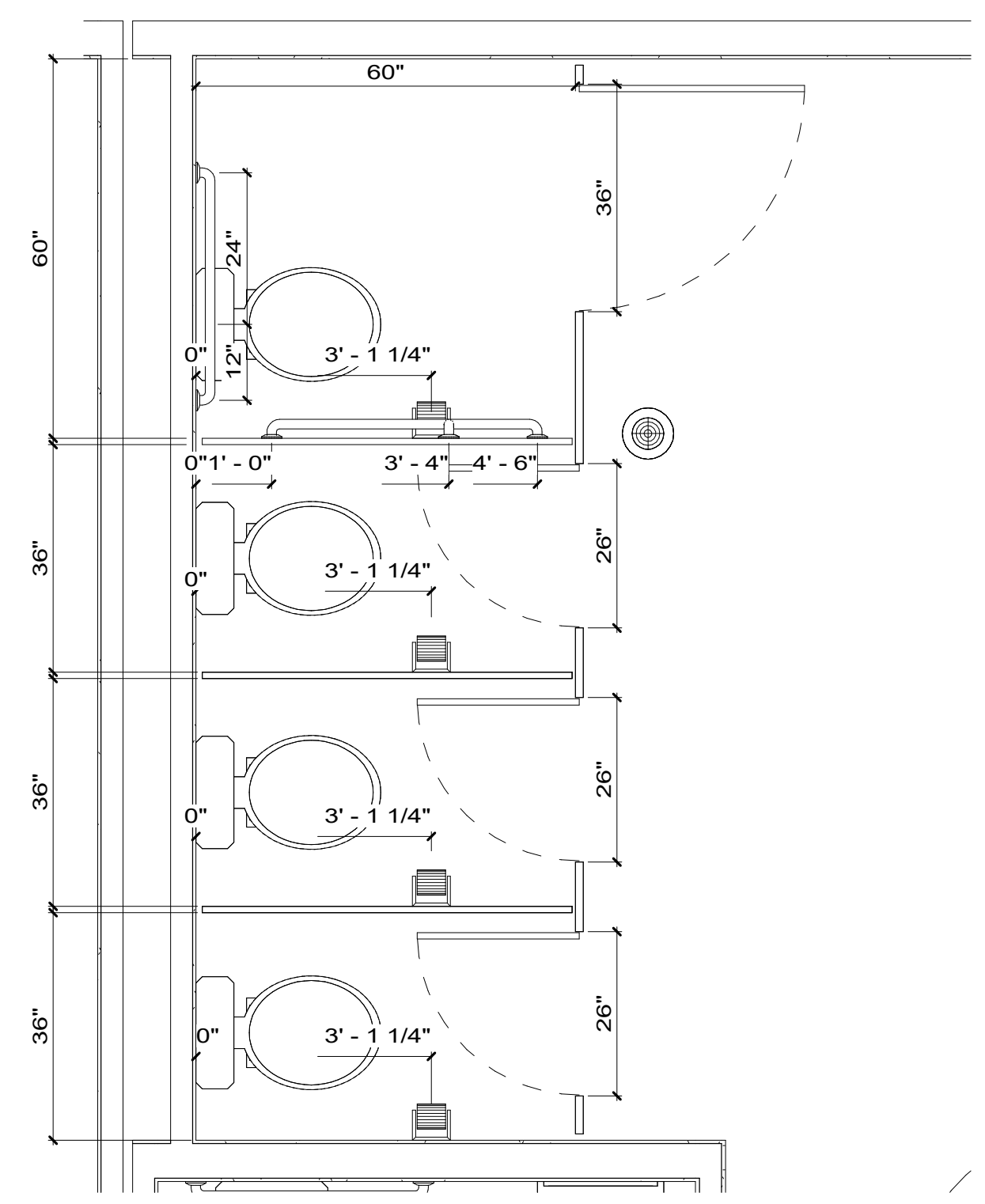
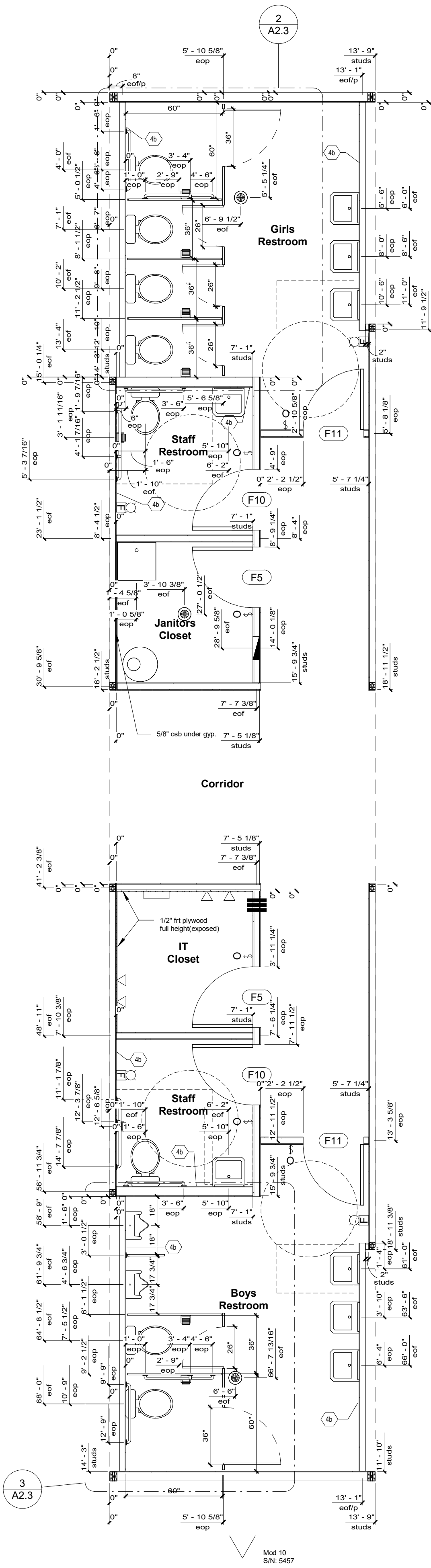
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PRODUCTION FLOOR PLAN MODS 1-9
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No.	5448-5465	Date:	3-5-24
Quote No.	50589C-18	Scale:	1/4" = 1'-0"
Model No.	8092	Page No.	A2.2
Job No.	2024-005-WR		

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Note: Identification hexagons on the drawings and in the symbol legend correspond to the project specifications (Sht AD.0). The letter in the hexagon matches the specification section, the number in the hexagon matches the section number.

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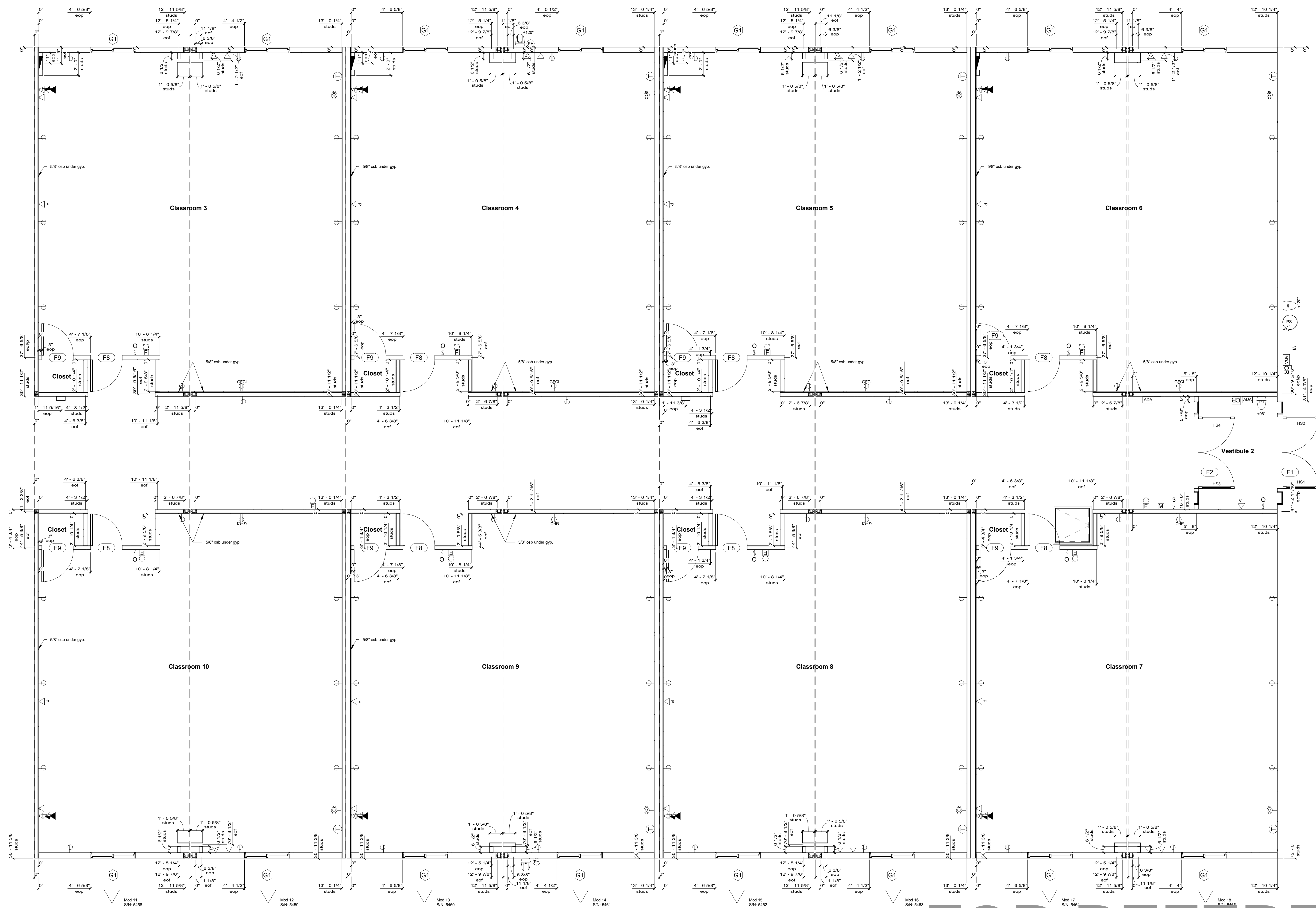
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Rev:

PRODUCTION FLOOR PLAN MOD 10
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No:	5448-5465	Date:	3-5-24
Quote No:	50589C-18	Scale:	As indicated
Model No:	8092	Page No:	A2.3
Job No:	2024-005-WR		

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1 Production Floor Plan Mods 11-18
1/4" = 1'-0"

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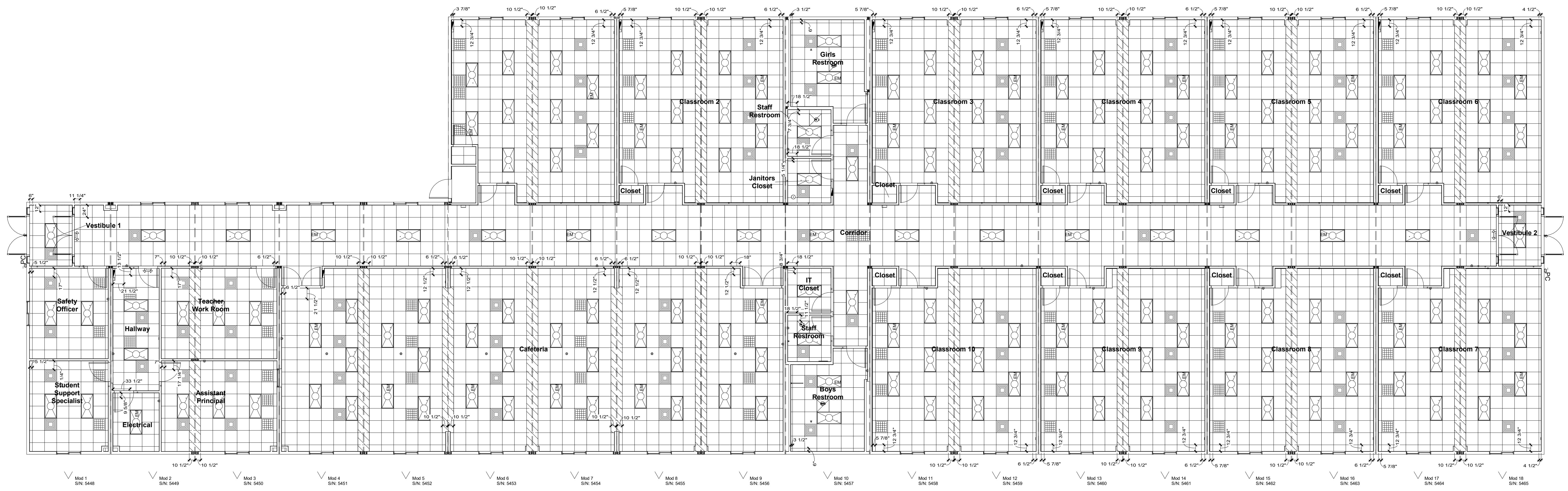
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Rev:

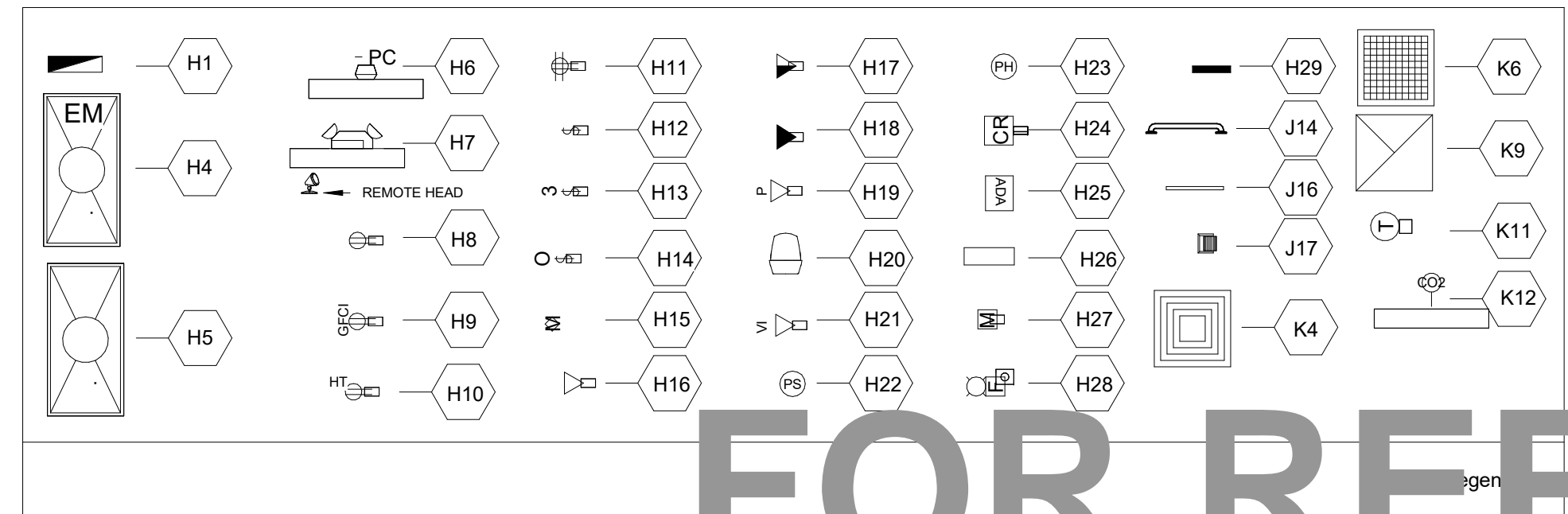
PRODUCTION FLOOR PLAN MODS 11-18
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No.	5448-5465	Date:	3-5-24
Quote No.	50589C-18	Scale:	1/4" = 1'-0"
Model No.	8092	Page No.	
Job No.	2024-005-WR		

A2.4



1 Ceiling Plan
1/8" = 1'-0"



Note: Identification hexagons on the drawings and in the symbol legend correspond to the project specifications (Sht AD.0). The letter in the hexagon matches the specification section, the number in the hexagon matches the section number.

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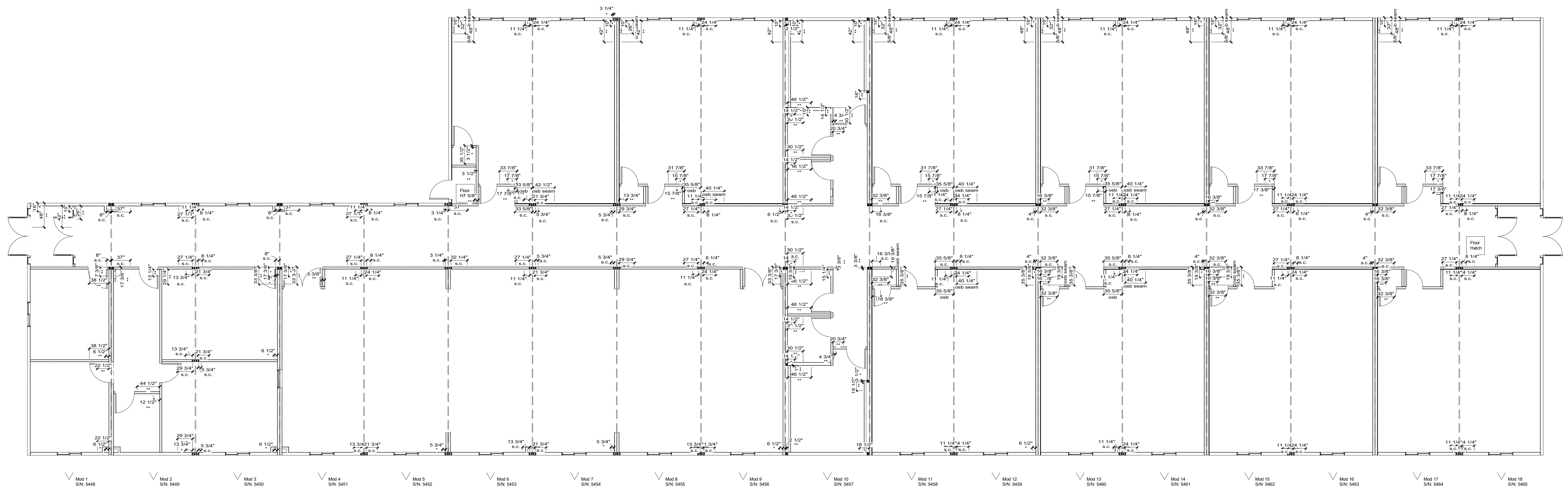
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d/b/a: Modular Builders
2756 & 3089
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P.O. BOX 505
ROCHESTER, IN 46975
PHONE: 574.223.4834

Drawn By: RLH
Checked By: AP/DL
Rev:

REFLECTIVE CEILING PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No. 5448-5465	Date: 3-5-24
Quote No. 50589C-18	Scale: As indicated
Model No. 8092	Page No.
Job No. 2024-005-WR	A3.1

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① Gyp Seam Plan
1/8" = 1'-0"

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PHONE: 574.223.4834

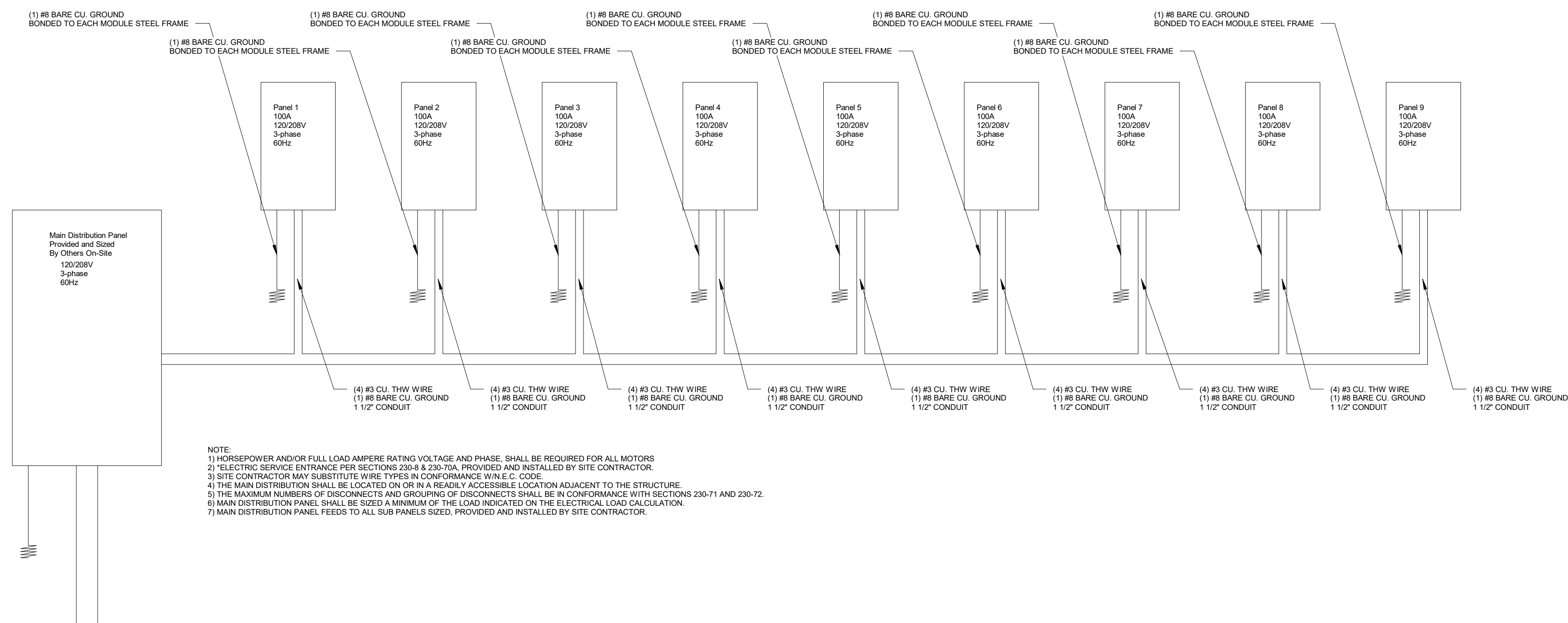
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Checked By:
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Rev:

SEAM CLOSURE FLOOR PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

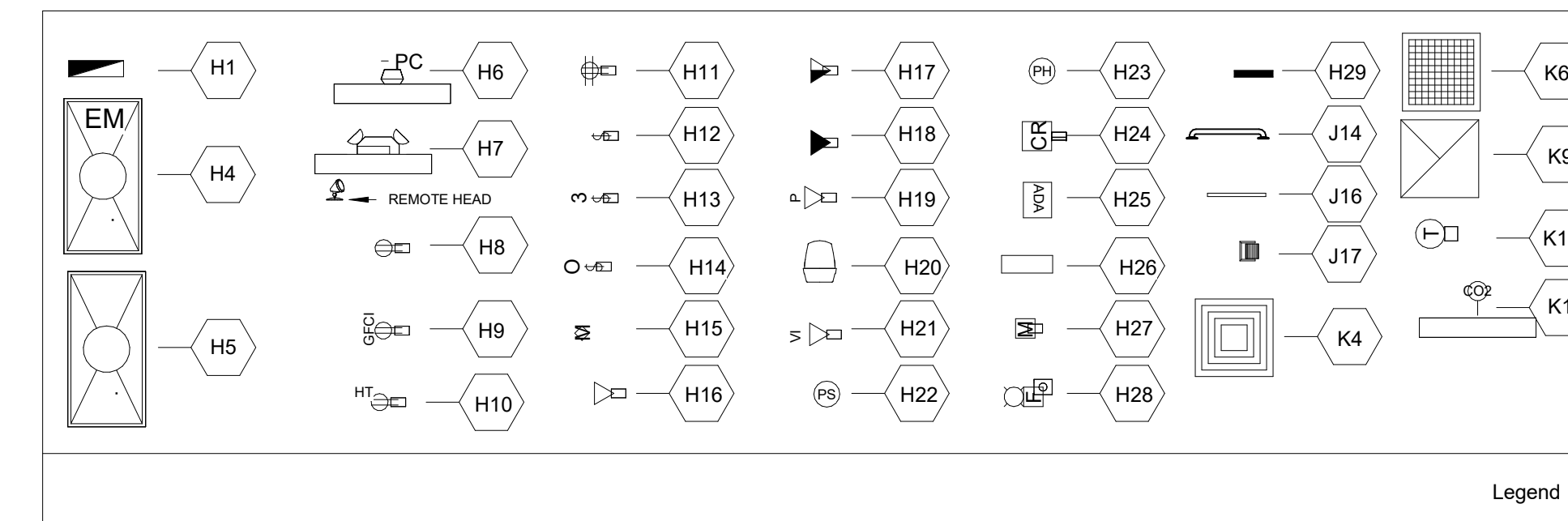
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Quote No. 50589C-18	Scale: 1/8" = 1'-0"
Model No. 8092	Page No.
Job No. 2024-005-WR	A4.1



1 Electrical Plan
1/8" = 1'-0"



NOTE:
 1) HORSEPOWER AND/OR FULL LOAD AMPERE RATING VOLTAGE AND PHASE SHALL BE REQUIRED FOR ALL MOTORS
 2) ELECTRIC SERVICE ENTRANCE PER SECTIONS 230-8 & 230-70A PROVIDED AND INSTALLED BY SITE CONTRACTOR
 3) SITE CONTRACTOR MAY SUBSTITUTE WIRE TYPES IN CONFORMANCE WITH I.E.C. CODE.
 4) THE MAIN DISTRIBUTION SHALL BE LOCATED ON OR IN A READILY ACCESSIBLE LOCATION ADJACENT TO THE STRUCTURE.
 5) THE MAXIMUM NUMBERS OF DISCONNECTS AND GROUPING OF DISCONNECTS SHALL BE IN CONFORMANCE WITH SECTIONS 230-71 AND 230-72.
 6) MAIN DISTRIBUTION PANEL SHALL BE SIZED A MINIMUM OF THE LOAD INDICATED ON THE ELECTRICAL LOAD CALCULATION.
 7) MAIN DISTRIBUTION PANEL FEEDS TO ALL SUB PANELS SIZED, PROVIDED AND INSTALLED BY SITE CONTRACTOR.



Note: Identification hexagons on the drawings and in the symbol legend correspond to the project specifications (SHT A0.0). The letter in the hexagon matches the specification section, the number in the hexagon matches the section number.

2 Riser Diagram
3/4" = 1'-0"

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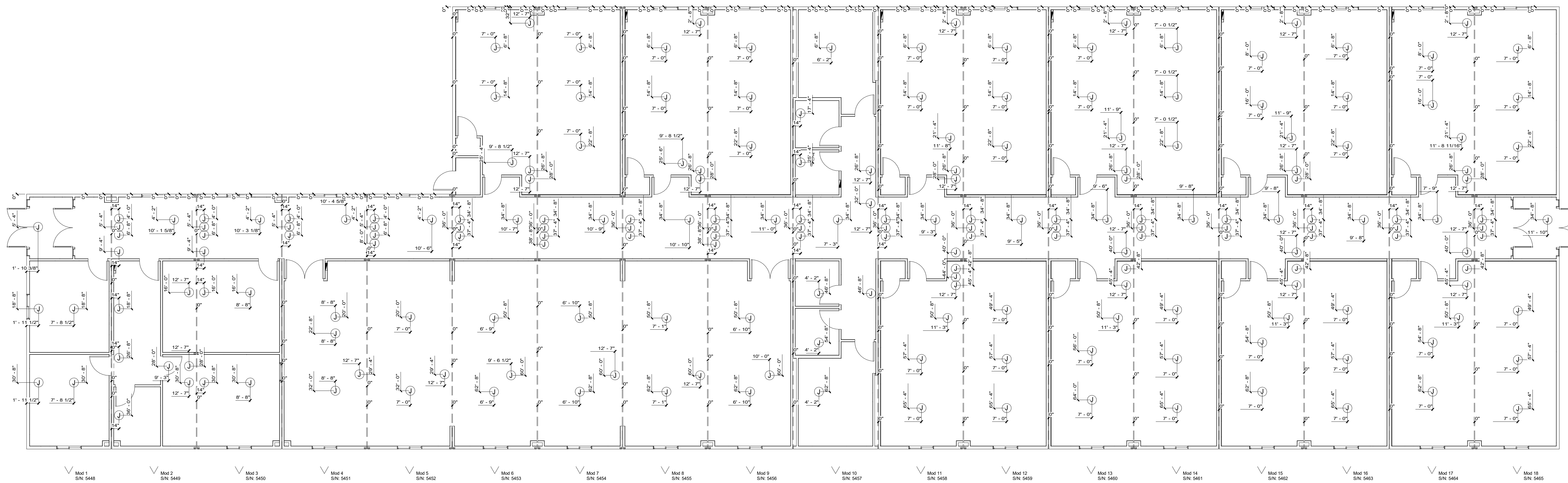
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ELECTRICAL PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No:
5448-5465
 Quote No:
50589C-18
 Model No:
809Z
 Job No:
2024-005-WR

Date:
3-5-24
 Scale:
As indicated
 Page No:
E2.1

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1 Junction Box Plan
1/8" = 1'-0"

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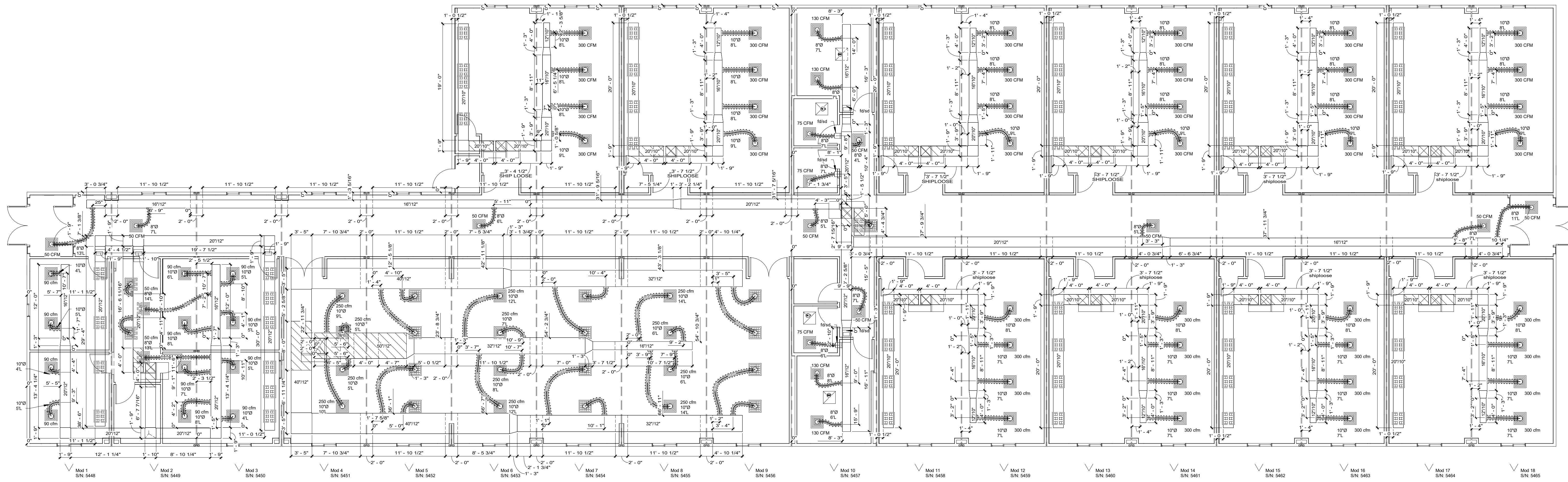
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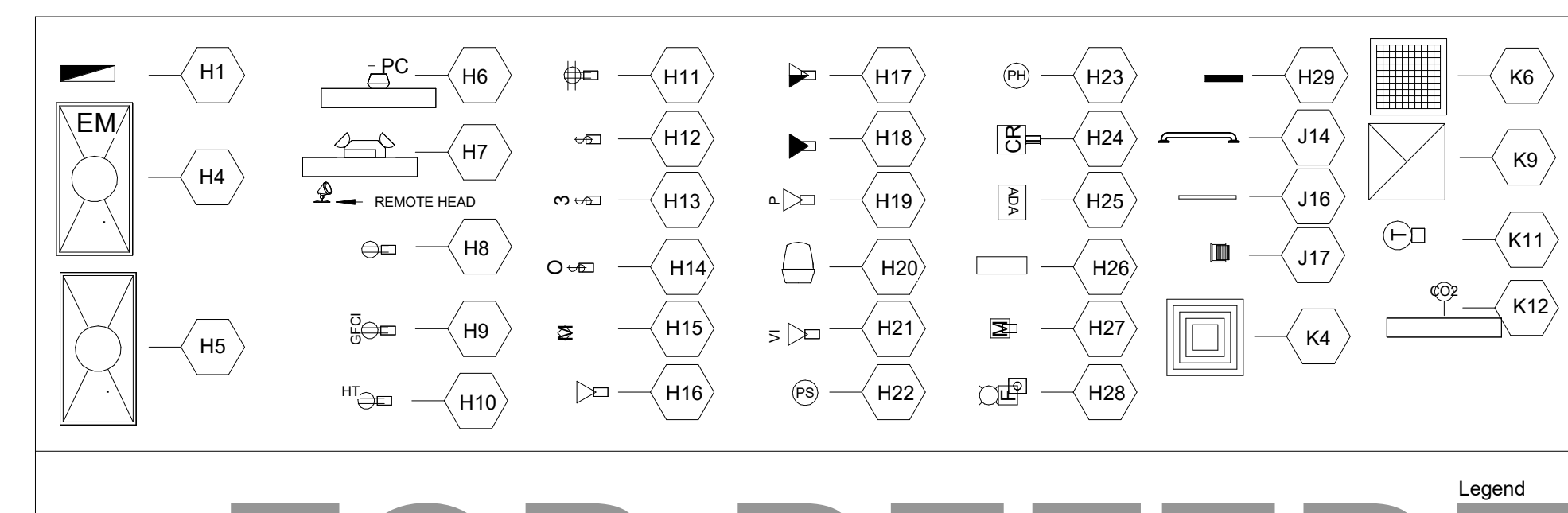
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Checked By:
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Rev:

JUNCTION BOX PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No. 5448-5465	Date: 3-5-24
Quote No. 50589C-18	Scale: 1/8" = 1'-0"
Model No. 8092	Page No.
Job No. 2024-005-WR	E3.1



1 HVAC Plan
1/8" = 1'-0"



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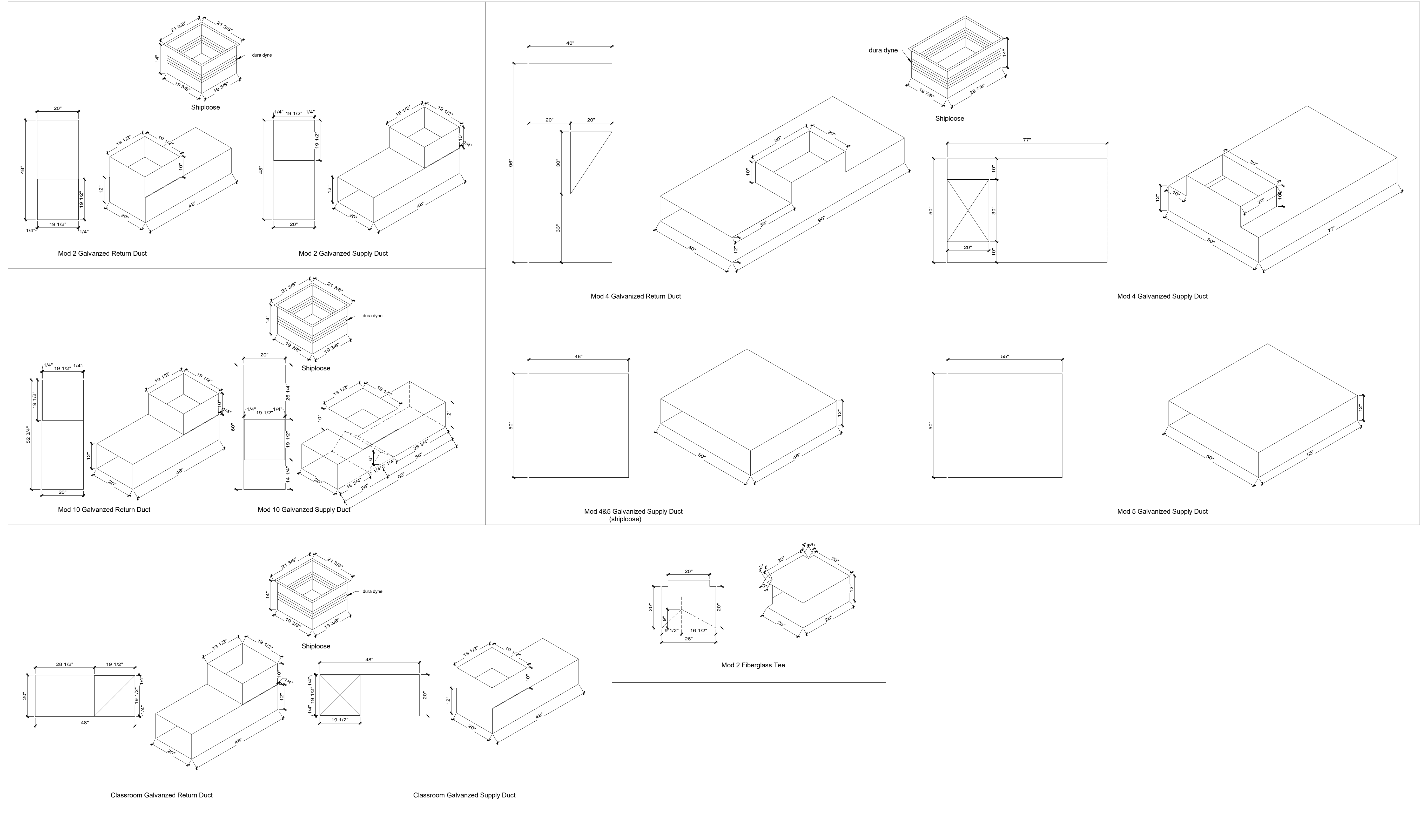
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Drawn By: RLH	MECHANICAL PLAN MOBILE MODULAR PATTENGILL BIOTECHNICAL MAGNET SCHOOL (13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES	Serial No: 5448-5465	Date: 3-5-24
Checked By: AP/DL		Quote No: 50589C-18	Scale: As indicated
Rev:		Model No: 8092	Page No: M2.1
		Job No: 2024-005-WR	



1 Duct Details
1/2" = 1'-0"

FOR REFERENCE

No.	Description	Date	No.	Description	Date

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Rev:

DUCT DETAILS
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

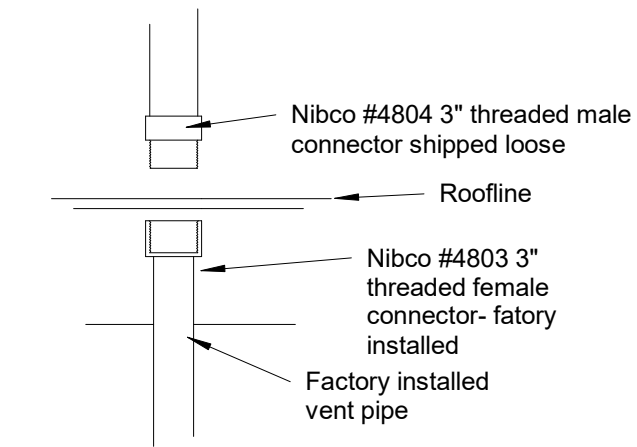
Serial No.	5448-5465	Date:	3-5-24
Quote No.	50589C-18	Scale:	1/2" = 1'-0"
Model No.	8092	Page No.	M3.1
Job No.	2024-005-WR		

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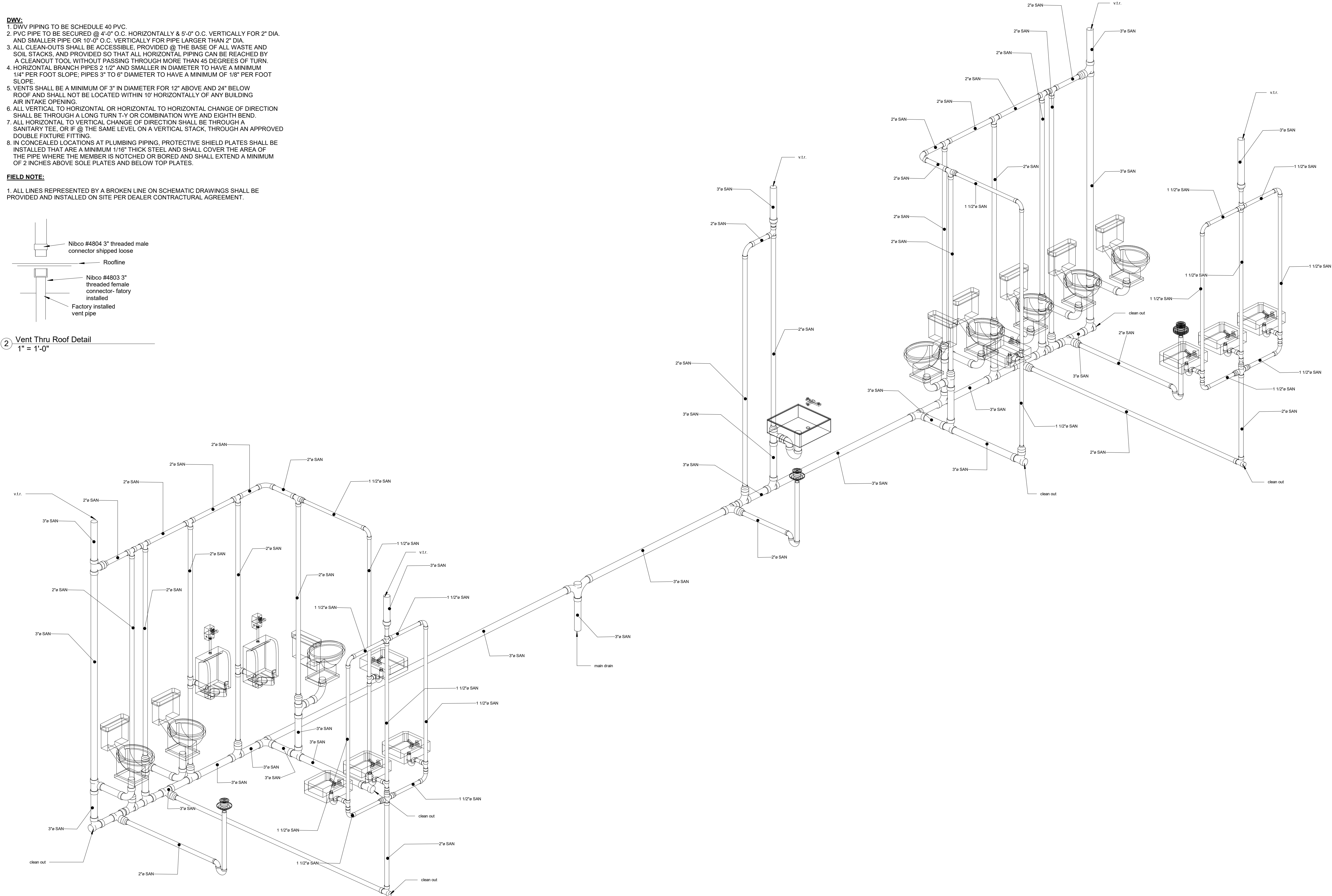
- DWV:**
- DWV PIPING TO BE SCHEDULE 40 PVC.
 - PVC PIPE TO BE SECURED @ 4'-0" O.C. HORIZONTALLY & 5'-0" O.C. VERTICALLY FOR 2" DIA. AND SMALLER PIPE OR 10'-0" O.C. VERTICALLY FOR PIPE LARGER THAN 2" DIA.
 - ALL CLEAN-OUTS SHALL BE ACCESSIBLE, PROVIDED @ THE BASE OF ALL WASTE AND SOIL STACKS, AND PROVIDED SO THAT ALL HORIZONTAL PIPING CAN BE REACHED BY A CLEANOUT TOOL WITHOUT PASSING THROUGH MORE THAN 45 DEGREES OF TURN.
 - HORIZONTAL BRANCH PIPES 2 1/2" AND SMALLER IN DIAMETER TO HAVE A MINIMUM 1/4" PER FOOT SLOPE, PIPES 3" TO 6" DIAMETER TO HAVE A MINIMUM OF 1/8" PER FOOT SLOPE.
 - VENTS SHALL BE A MINIMUM OF 3" IN DIAMETER FOR 12" ABOVE AND 24" BELOW ROOF AND SHALL NOT BE LOCATED WITHIN 10' HORIZONTALLY OF ANY BUILDING AIR INTAKE OPENING.
 - ALL VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL CHANGE OF DIRECTION SHALL BE THROUGH A LONG TURN T-Y OR COMBINATION WYE AND EIGHTH BEND.
 - ALL HORIZONTAL TO VERTICAL CHANGE OF DIRECTION SHALL BE THROUGH A SANITARY TEE, OR IF @ THE SAME LEVEL ON A VERTICAL STACK, THROUGH AN APPROVED DOUBLE FIXTURE FITTING.
 - IN CONCEALED LOCATIONS AT PLUMBING PIPING, PROTECTIVE SHIELD PLATES SHALL BE INSTALLED THAT ARE A MINIMUM 1/16" THICK STEEL AND SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

FIELD NOTE:

- ALL LINES REPRESENTED BY A BROKEN LINE ON SCHEMATIC DRAWINGS SHALL BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTURAL AGREEMENT.



2 Vent Thru Roof Detail
1" = 1'-0"



1 Plumbing Schematic DWV

FOR REFERENCE

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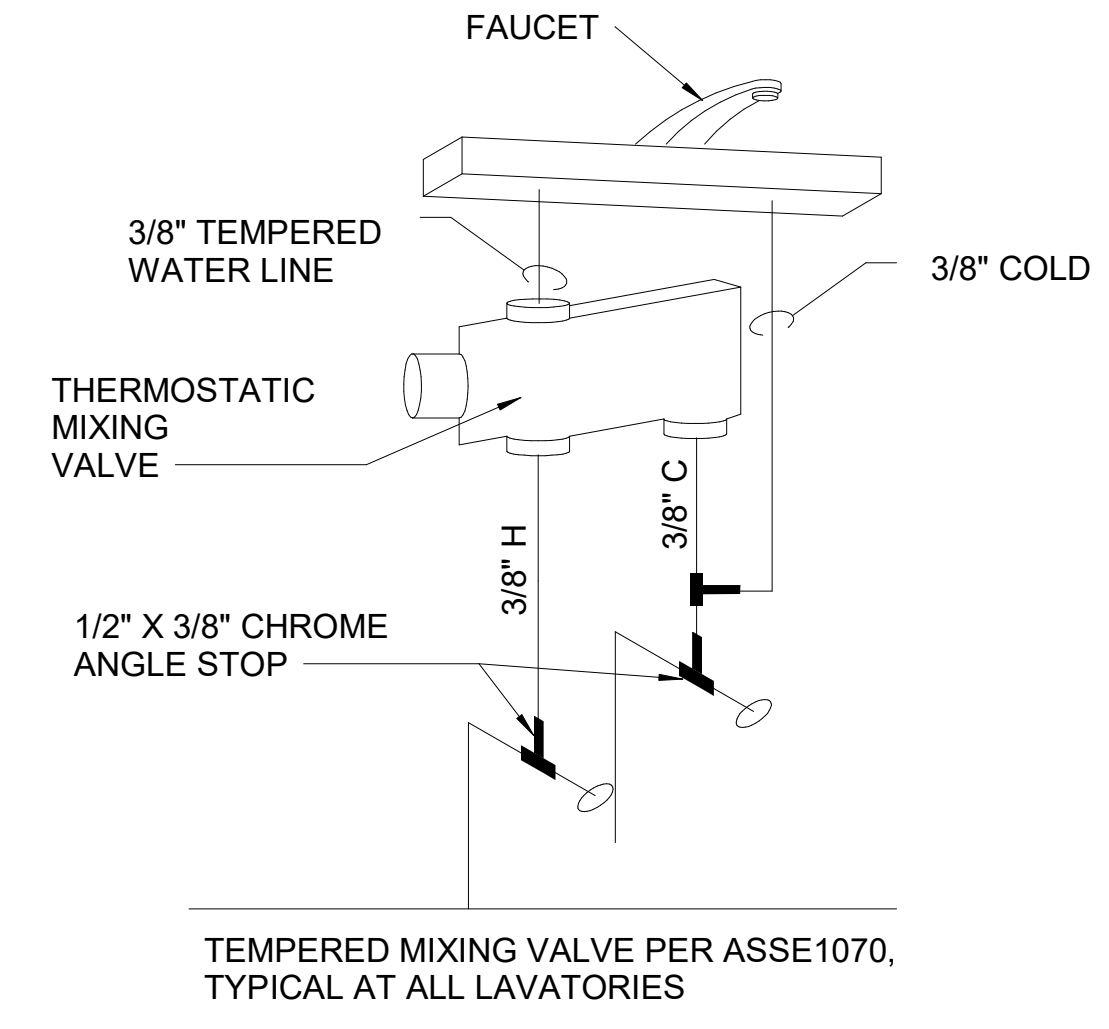
DWV SCHEMATICS
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No. 5448-5465	Date: 3-5-24
Quote No. 50589C-18	Scale: 1" = 1'-0"
Model No. 8092	Page No.
Job No. 2024-005-WR	P2.1

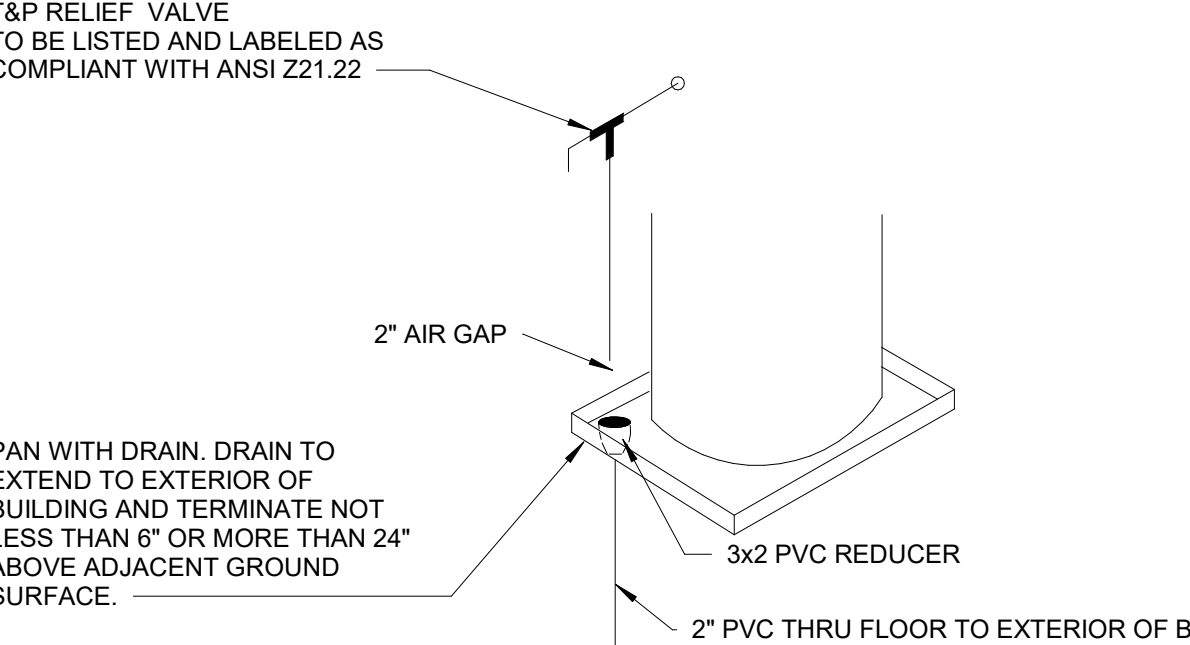
- SUPPLY:**
1. WATER SUPPLY LINES TO BE TYPE "L" COPPER.
 2. COPPER PIPE 1 1/4" DIA. OR SMALLER, TO BE SECURED @ 6'-0" O.C. HORIZONTALLY. COPPER PIPE LARGER THAN 1 1/4" DIA., TO BE SECURED @ 10'-0" O.C. HORIZONTALLY. ALL COPPER PIPE TO BE SECURED @ 10'-0" O.C. VERTICALLY.
 3. WATER TEMPERATURE FACTORY SET @ 120 DEGREES F. (CONTROLS BEHIND COVER PANEL.)
 4. A SHUT-OFF VALVE IS REQUIRED FOR EACH FIXTURE.
 5. WATER HAMMER ARRESTORS SHALL BE PROVIDED AS REQUIRED WITH QUICK-CLOSING VALVES.
 6. WATER HEATER TO BE EQUIPPED WITH DRAIN COCK.
 7. DIELECTRIC UNIONS TO BE USED @ CONNECTIONS OF WATER LINES TO WATER HEATER.
 8. COLD WATER INLET TO HAVE A SHUT-OFF VALVE ABOVE FLOOR & NEAR WATER HEATER.
 9. FULL SIZE SHUT-OFF VALVE TO BE PROVIDED BETWEEN BUILDING & WATER MAIN (METER).
 10. SUPPLY SYSTEM DESIGNED FOR INLET PRESSURES OF 60 TO 80 PSI.
 11. WATER HEATERS WITH BOTTOM AND/OR SIDE INLET SHALL HAVE A VACUUM RELIEF VALVE INSTALLED IN THE COLD WATER INLET LINE, LOCATED ABOVE THE TOP OF THE WATER HEATER. PER MANUFACTURER'S RECOMMENDED INSTRUCTIONS.
 12. IN CONCEALED LOCATIONS AT PLUMBING PIPING, PROTECTIVE SHIELD PLATES SHALL BE INSTALLED THAT ARE A MINIMUM 1/16" THICK STEEL AND SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND A MINIMUM OF 2 INCHES ABOVE SOLE PLATES AND BELOW TOP PLATES.

FIELD NOTE:

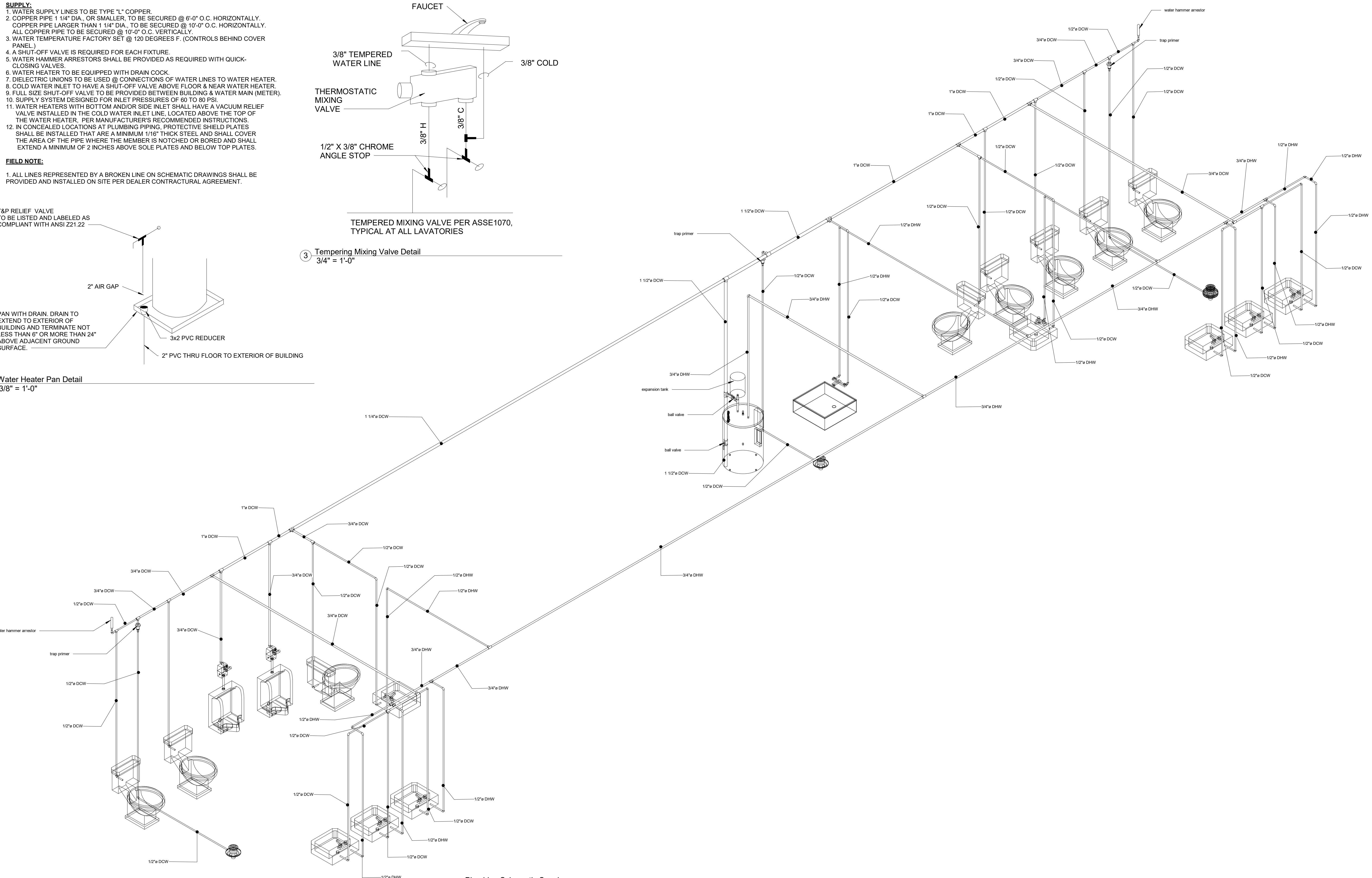
1. ALL LINES REPRESENTED BY A BROKEN LINE ON SCHEMATIC DRAWINGS SHALL BE PROVIDED AND INSTALLED ON SITE PER DEALER CONTRACTUAL AGREEMENT.



③ Tempering Mixing Valve Detail
3/4" = 1'-0"



② Water Heater Pan Detail
3/8" = 1'-0"



① Plumbing Schematic Supply

FOR REFERENCE

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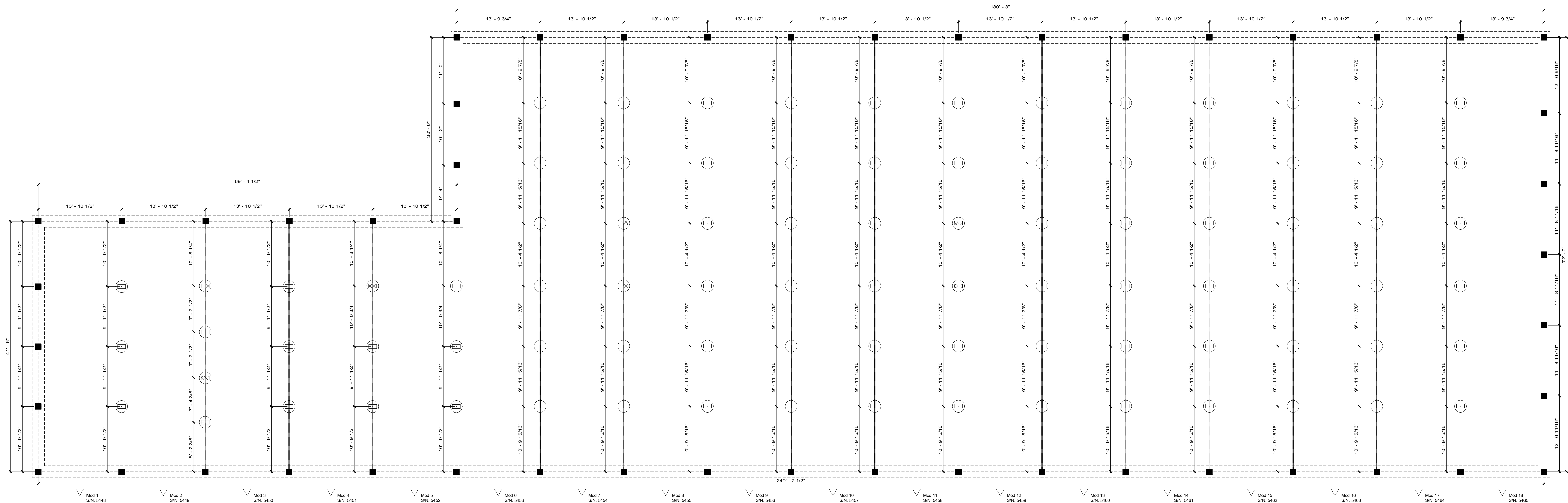
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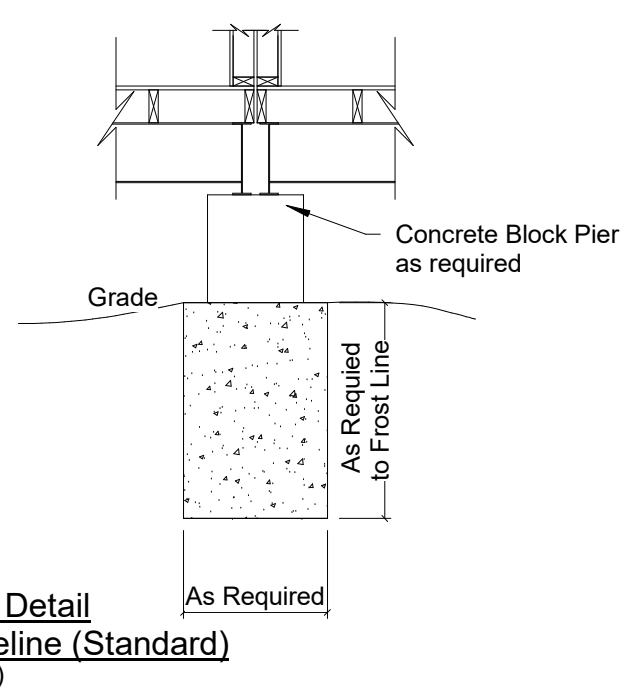
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d/b/a: Modular Builders
2756 & 3089
E. FORT WAYNE ROAD
P.O. BOX 505
ROCHESTER, IN 46875
PHONE: 574.223.4934

Drawn By: RLH	SUPPLY SCHEMATICS MOBILE MODULAR PATTENGILL BIOTECHNICAL MAGNET SCHOOL (13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES	Serial No. 5448-5465	Date: 3-5-24
Checked By: AP/DL		Quote No. 50589C-18	Scale: As indicated
Rev:		Model No. 8092	Page No. P3.1
		Job No. 2024-005-WR	

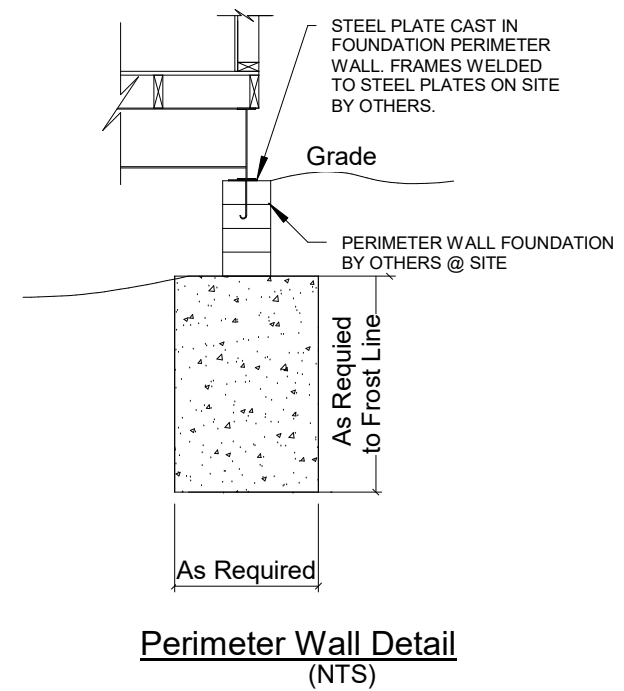
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① Foundation Plan
1/8" = 1'-0"



② Foundation 4
3/16" = 1'-0"



③ Foundation 5
3/16" = 1'-0"

- Foundation Notes:**
1. Loads in 1000 lbs.
 2. Crawlspace ventilation shall not be less than 1/150th of the crawlspace horizontal area.
 3. This is a suggested plan only. Foundations to be designed by a professional engineer per local soil and climate conditions.
 4. Provide access to crawlspace. Minimum 22" x 24".
 5. Minimum footing depth 3'-6", or as required by local conditions.
- Field Notes:**
1. All foundation work shown on this drawing to be provided and installed on site per dealer under contractual agreement.

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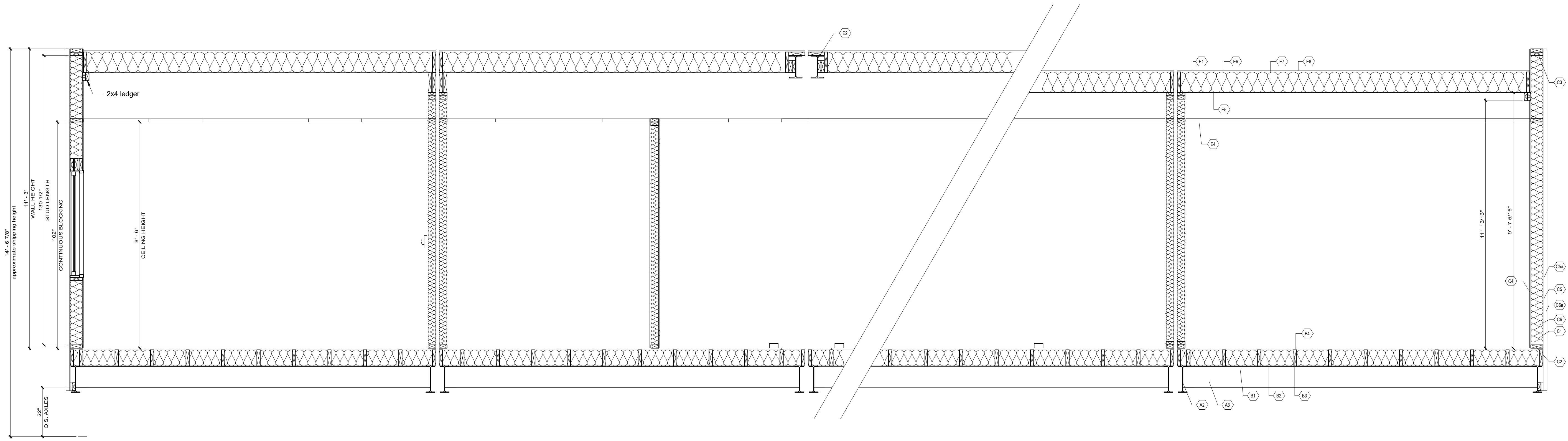
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Drawn By: RLH	SUGGESTED BLOCKING PLAN MOBILE MODULAR PATTENGILL BIOTECHNICAL MAGNET SCHOOL (13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES	Serial No: 5448-5465	Date: 3-5-24
Checked By: AP/DL		Quote No: 50589C-18	Scale: As indicated
Rev:		Model No: 8092	Page No: S0.0
		Job No: 2024-005-WR	



① Cross Section
1/2" = 1'-0"

FOR REFERENCE

No.	Description	Date	No.	Description	Date

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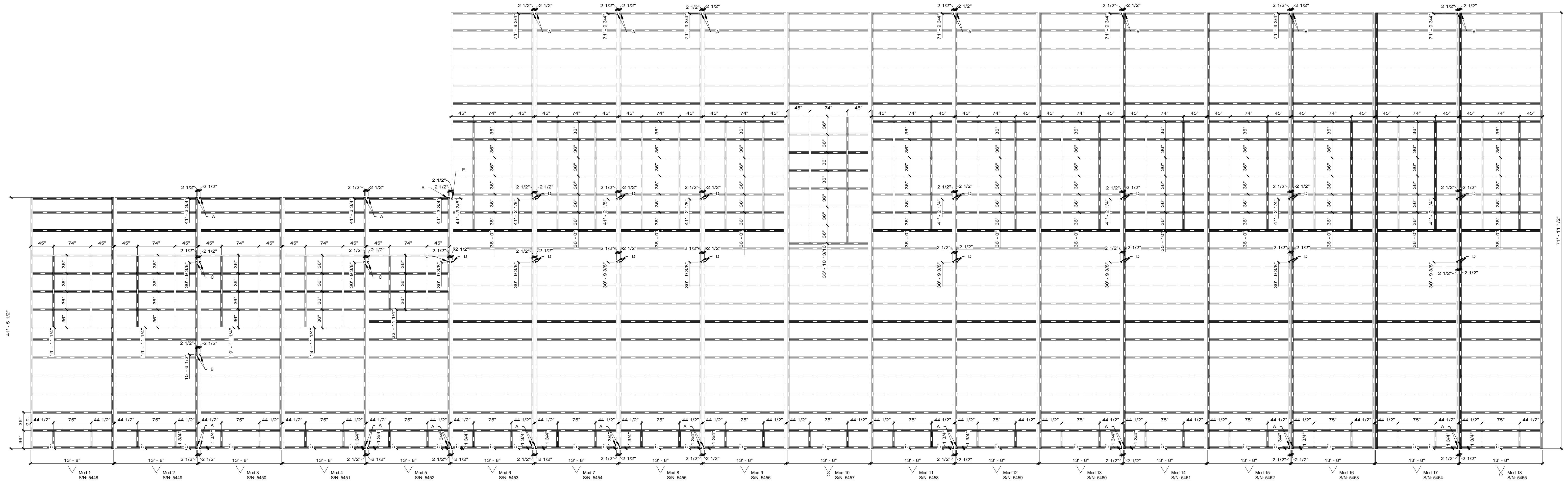
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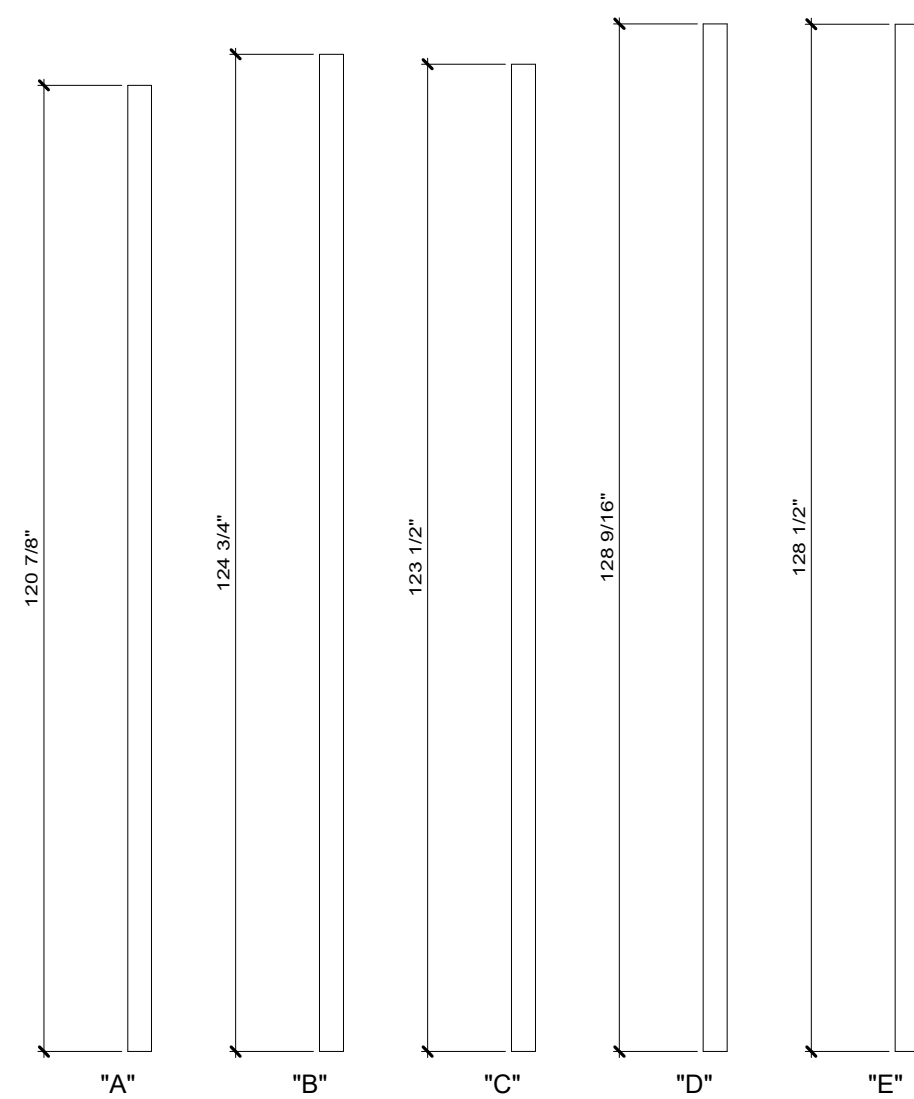
Drawn By:
RLH
Checked By:
AP/DL
Rev:

CROSS SECTION
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

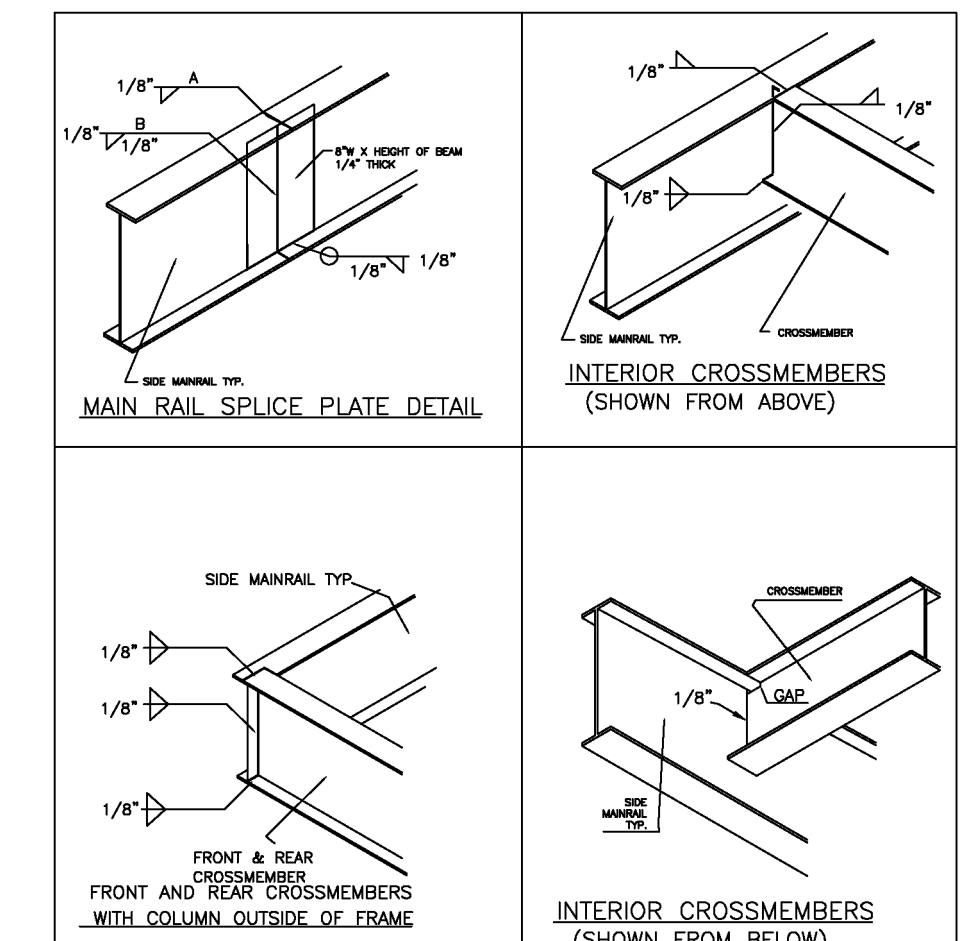
Serial No.	5448-5465	Date:	3-5-24
Quote No.	50589C-18	Scale:	1/2" = 1'-0"
Model No.	8092	Page No.	S1.1
Job No.	2024-005-WR		



① Frame Plan
1/8" = 1'-0"



② Steel Column Heights
1/2" = 1'-0"



FOR REFERENCE

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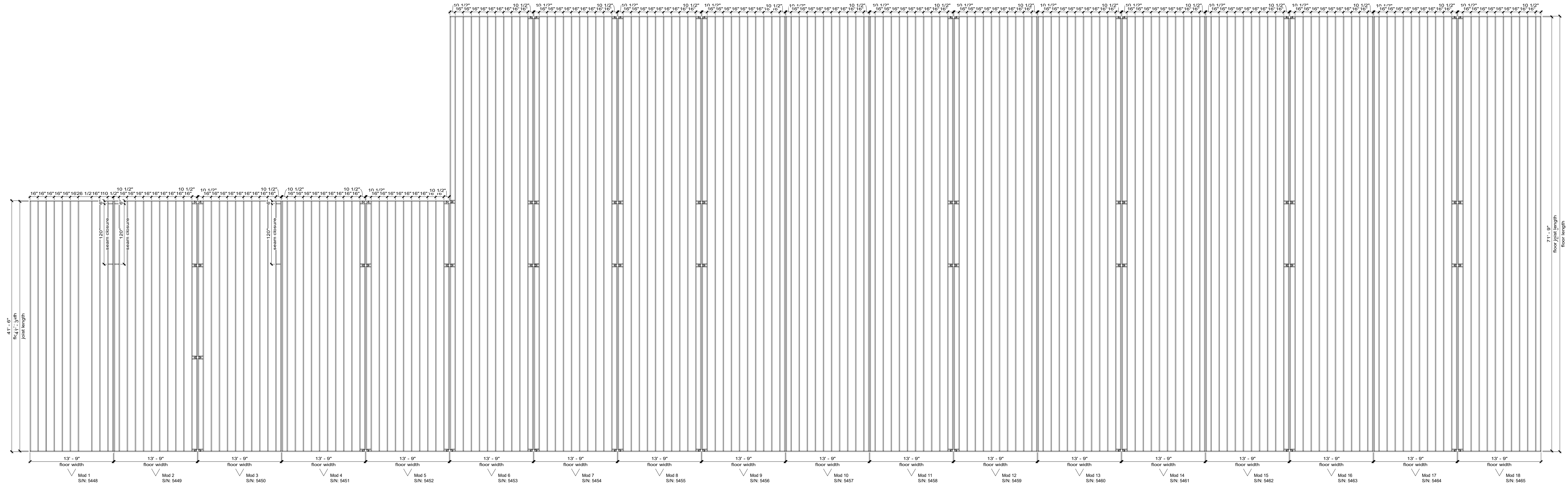
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Rev:

FRAME PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No:
5448-5465
Quote No:
50589C-18
Model No:
8092
Job No:
2024-005-WR

Date:
3-5-24
Scale:
As indicated
Page No:
S2.1



1 Floor Framing Plan
1/8" = 1'-0"

FOR REFERENCE

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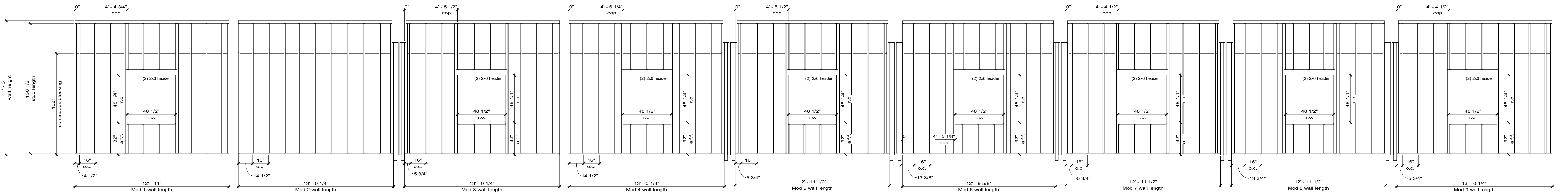
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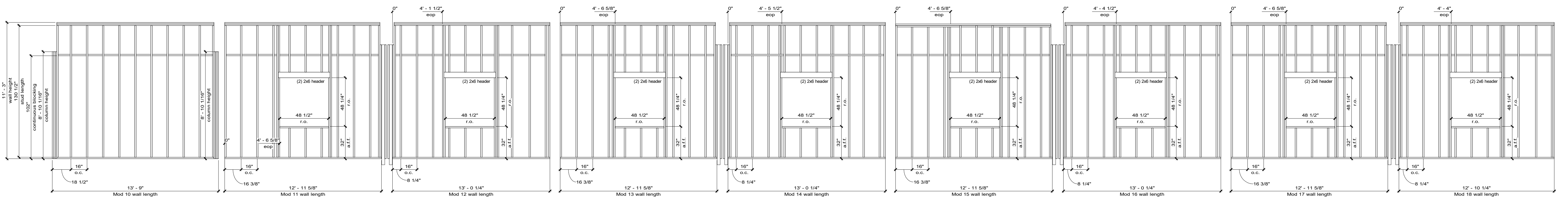
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Rev:

FLOOR FRAMING PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

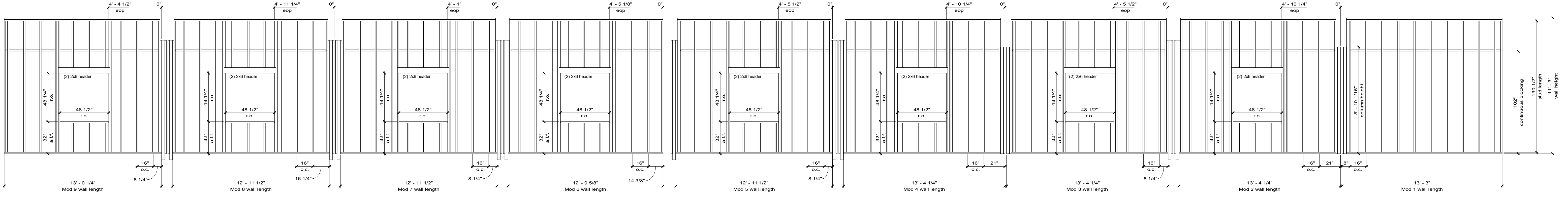
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Quote No. 50589C-18	Scale: 1/8" = 1'-0"
Model No. 8092	Page No.
Job No. 2024-005-WR	S3.1



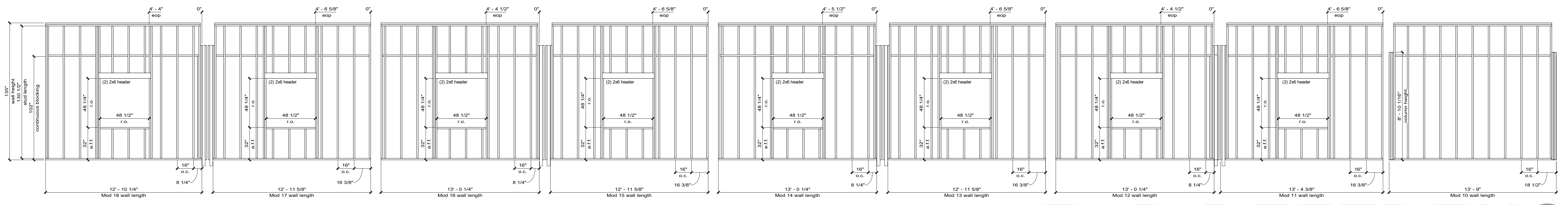
1 Mods 1-9 Hitch Endwall Wall Framing
Elevation
1/4" = 1'-0"



2 Mods 10-18 Hitch Endwall Wall Framing
Elevation
1/4" = 1'-0"



3 Mods 1-9 Rear Wall Framing Elevation
1/4" = 1'-0"



4 Mods 10-18 Rear Wall Framing Elevation.
1/4" = 1'-0"

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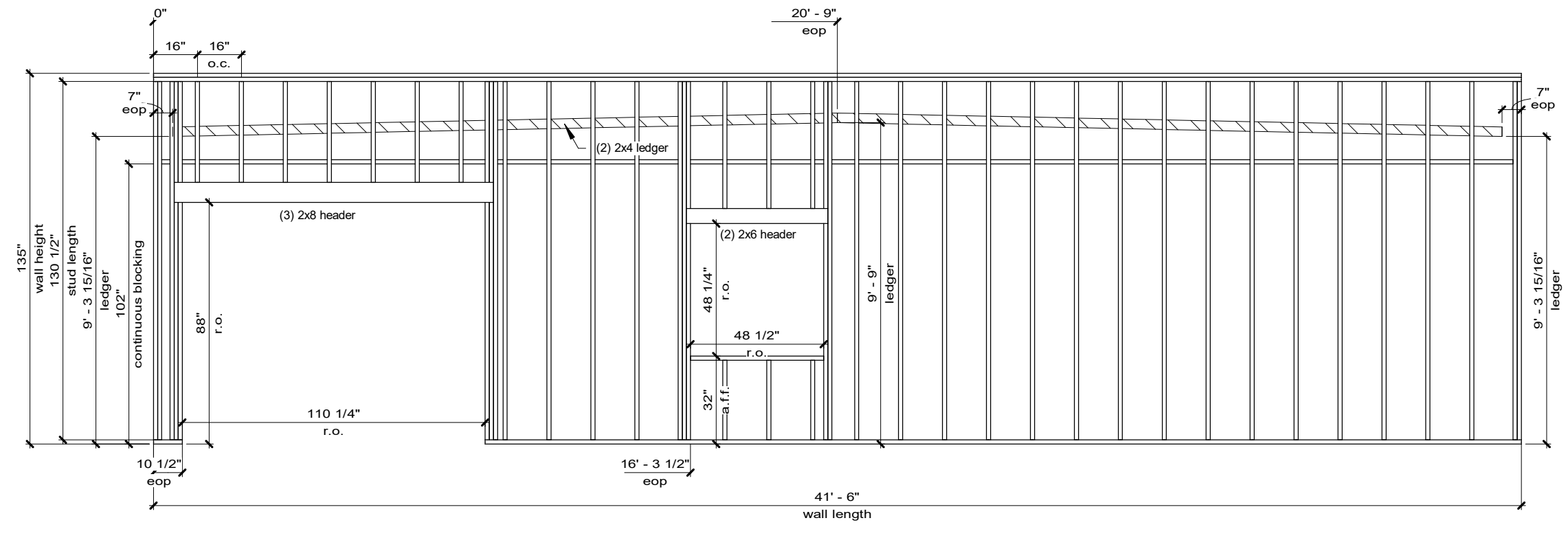
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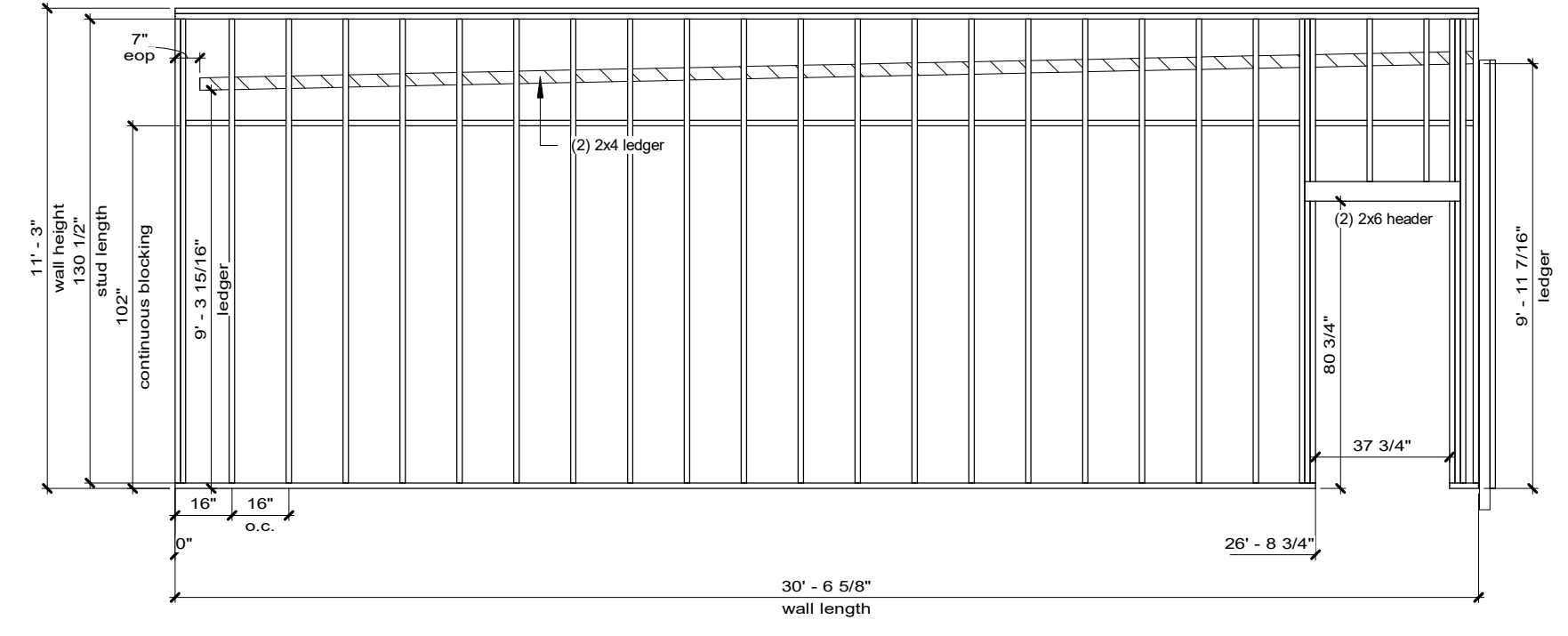
WALL FRAMING ELEVATIONS
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No:	5448-5465	Date:	3-5-24
Quote No:	50599C-18	Scale:	1/4" = 1'-0"
Model No:	8092	Page No:	S4.1
Job No:	2024-005-WR		

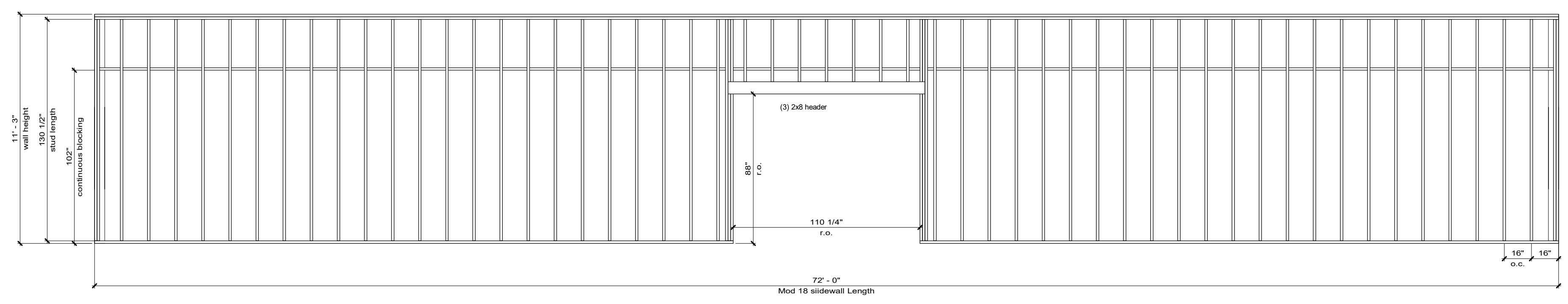
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1 Mod 1 Sidewall Framing Elevation
1/4" = 1'-0"



2 Mod 6 Sidewall Framing Elevation
1/4" = 1'-0"




3 Mod 18 Sidewall Framing Elevation
1/4" = 1'-0"

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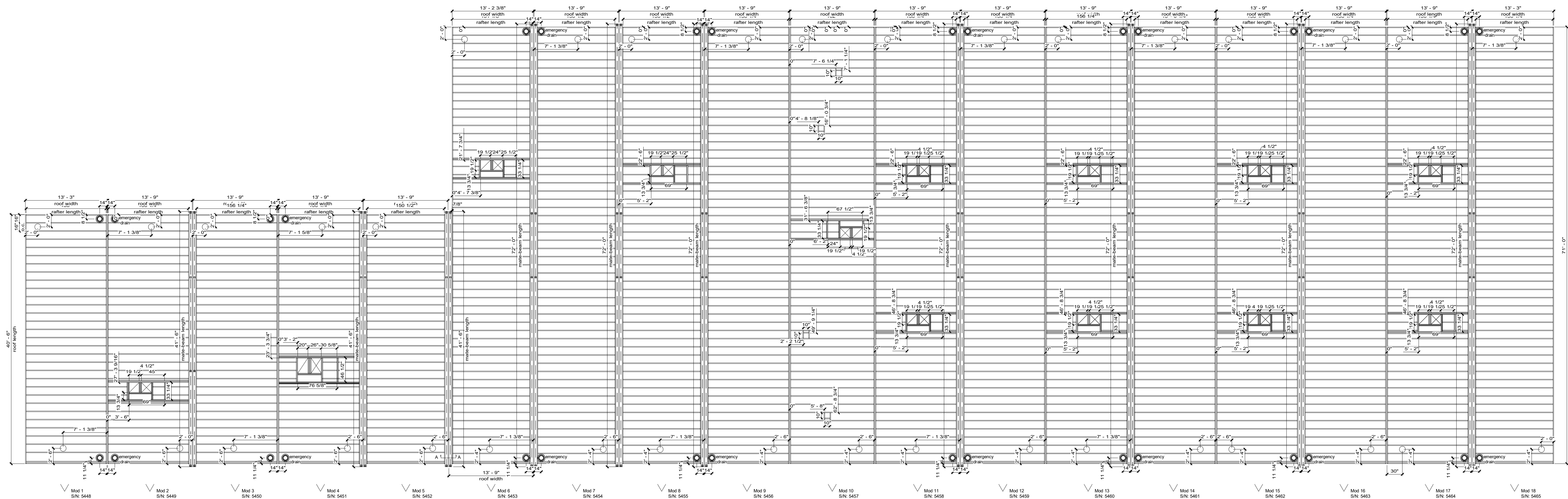
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Rev:

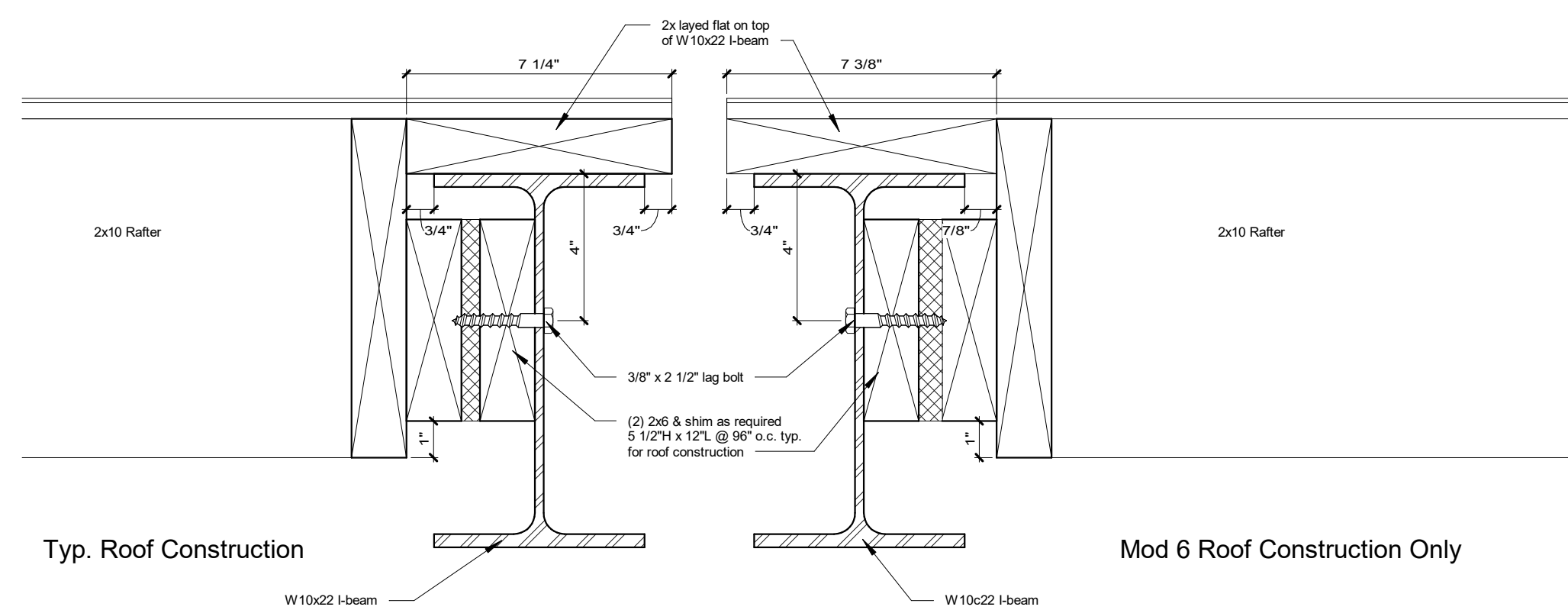
WALL FRAMING ELEVATIONS
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No: 5448-5465
Quote No: 50589C-18
Model No: 8092
Job No: 2024-005-WR

Date: 3-5-24
Scale: 1/4" = 1'-0"
Page No: S4.2



1 Roof Framing Plan
1/8" = 1'-0"



2 Section A-A
3" = 1'-0"

FOR REFERENCE

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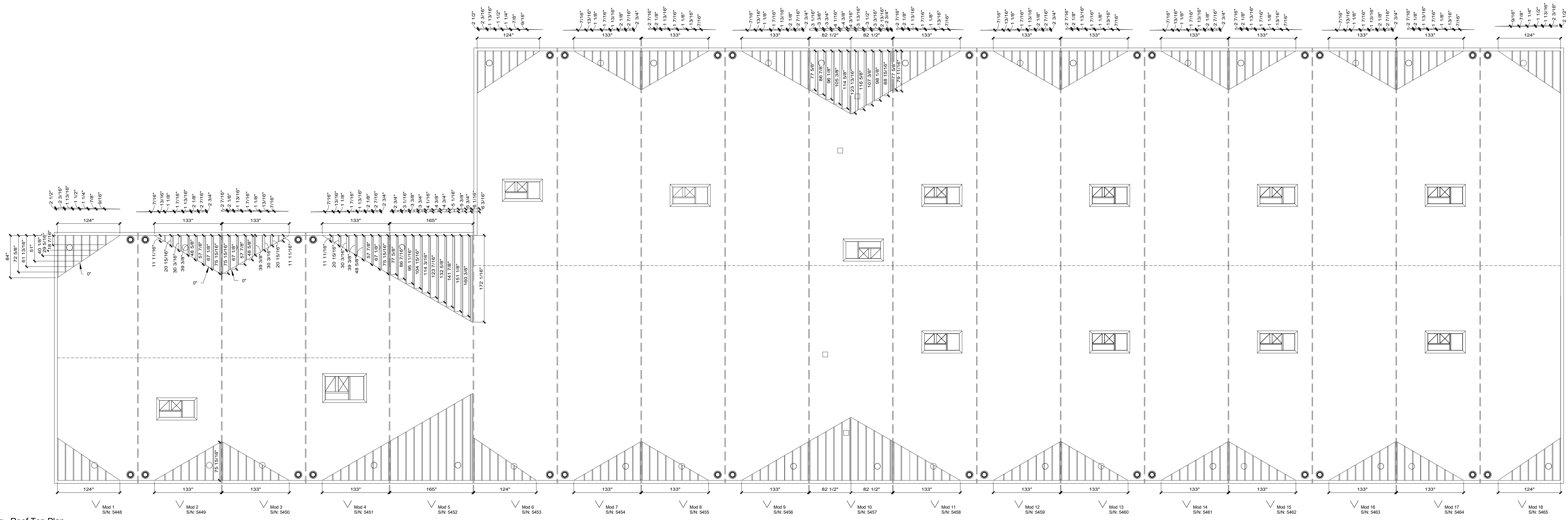
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Rev:

ROOF FRAMING PLAN
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No.
5448-5465
Quote No.
50589C-18
Model No.
8092
Job No.
2024-005-WR

Date:
3-5-24
Scale:
As indicated
Page No.
S5.1

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1 Roof Top Plan
1/8" = 1'-0"

FOR REFERENCE

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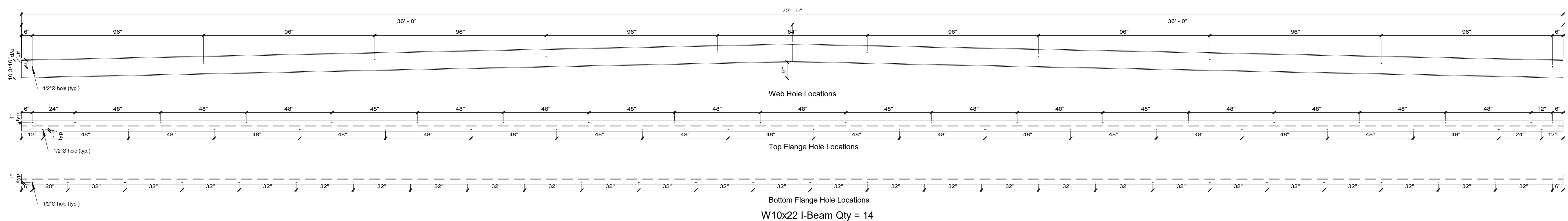
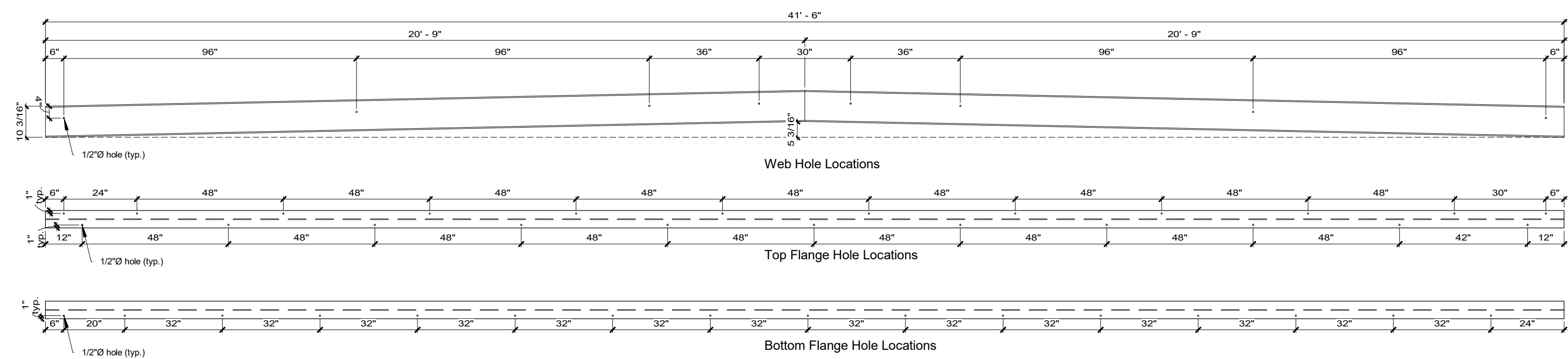


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Drawn By: RLH	ROOF TOP PLAN MOBILE MODULAR PATTENGILL BIOTECHNICAL MAGNET SCHOOL (13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES	Serial No. 5448-5465	Date: 3-5-24
Checked By: AP/DL		Quote No. 50589C-18	Scale: 1/8" = 1'-0"
Rev:		Model No. 8092	Page No. S5.2
		Job No. 2024-005-WR	



1 W10x22 I-Beam Details
3/8" = 1'-0"

FOR REFERENCE

No.	Description	Date	No.	Description	Date

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P.O. BOX 505
ROCHESTER, IN 46875
PHONE: 574.223.4934

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Rev:

W10X22 MATE BEAM DETAILS
MOBILE MODULAR
PATTENGILL BIOTECHNICAL MAGNET SCHOOL
(13) 72' X 13'-9" AND (5) 41'-6" X 13'-9" MODULES

Serial No. 5448-5465	Date: 3-5-24
Quote No. 50589C-18	Scale: 3/8" = 1'-0"
Model No. 8092	Page No.
Job No. 2024-005-WR	S5.3

Work Category No. 10 – Structural Concrete**Work Included:**

The subcontractor shall timely perform all Structural Concrete work, as detailed below, in accordance with the contract documents (including Bidding Requirements, Proposal Section, Contract Forms, General Conditions, Supplemental Conditions, General Requirements, Addenda, etc.), including, but not limited to, the following Specification Sections and Work Scope Items. Unless otherwise noted, this contractor is responsible for all items specified in the following specifications sections:

Reference Work Category Index

Work Category Notes:

1. Furnish and install all cast-in-place concrete as shown and/or specified including but not limited to foundations, slab-on-grade, elevated slabs and elevated slabs on metal decks, and mud mats.
2. Includes re-steel, foundation waterproofing, waterstops, pre-molded joint filler, bonding agents, vapor barriers, perimeter foundation and below slab rigid insulation, grouting of structural steel leveling & base plates, expansion and control joints, floor sealers and hardeners, curing compounds, drilling and grouting of dowels, fine grading under slabs-on-grade.
3. All grouting as shown and specified including pump/equipment bases, steel base plates, and grouting of steel beam floor reinforcing.
4. Includes installation of anchor bolts, embeds, dovetail anchors, floor doors, unitstrut, and sleeves embedded in structural concrete supplied by others. Coordinate and assist other trades in setting sleeves in formwork.
5. Includes all forming, placing, finishing, reinforcement, finishing as required, setting, shoring, recesses for other work, dowels, manhole steps, epoxy adhesives.
6. Includes all required layouts for the performance of this W.C. All surveying necessary to establish proper layout and elevations are the responsibility of this work category.
7. Provide block outs for other trades as shown in contract documents and approved by the construction manager.
8. Floor finish tolerances (i.e. flatness and levelness requirements) to be installed to meet requirements of specifications.
9. This contractor is responsible for the subgrade protection from frost, water, etc once excavation for concrete is complete and forming is to proceed. This includes dewatering.
10. Provide engineered shoring system for supported cast in place concrete walls and formed supported slabs as specified, including all engineering of and installation of any required reshoring.
11. All concrete embedded items, which are furnished by others, shall be installed, received, inventoried, unloaded, handled and protected by this work category, i.e. Steel, Pre-cast and Curtain wall embedded items, inserts, anchor bolts, Elevator embeds, misc. iron embeds etc., shall be clearly marked and labeled per approved and previously provided erection drawings, and be appropriately delivered (FOB jobsite) to this subcontractor for installation.
12. Any saw cutting, grinding, chipping and patching work etc. generating concrete dust, shall be approved in advance by the Construction Manager. Dust control and safety procedures will be reviewed and enforced during this activity.

13. Drill and epoxy dowels into existing concrete structures as required.
14. Create, maintain, and remove concrete waste from concrete wash out pit(s) in a location agreed to with the Construction manager for the duration of this trades work.

Specific Notes and Details:

The following details and notes are included in this Work Category; this list is to clarify the specific items noted below and does not exclude other details or otherwise limit the scope of work for this Work Category.

1. Furnish and install frost-proof entry slabs (sidewalk already bought out in BPI Earthwork).
2. Provide and install mud mat.
3. Provide and install concrete footings and foundations that were changed from CMU to concrete in BP 2 addendum #2. Include all accessories for a complete installation, including but not limited to steel reinforcement and steel embeds. (BP2 ADD 2)

Related Work by Others:

1. Furnish anchor bolts and leveling bases by Vesta Modular.
2. Concrete materials testing and periodic “in progress” field inspections by Owner. However, if excessive re-testing is required, this subcontractor will be assessed re-testing costs.
3. Site concrete pavements & curb/gutter by WC 02 (Bid Package 1).
4. Excavation and backfill for footings by WC 02 (Bid Package 1).
5. Cavity wall insulation by WC 11.
6. Reinforcing steel contained entirely within unit masonry by W.C. 11.
7. Embedded items in concrete furnished by others.
8. De-watering of all excavations to be performed by WC 02 until forming begins.
9. Perimeter draining by W.C. 02.
10. Grouting of precast concrete planks and masonry by others. Precast hollowcore ends should be either grouted or dammed by the precast contractor prior to WC 10.

Allowances:

This Contractor shall include in their Base Bid a Construction Manager’s allowance of **\$10,000**. Reference Section 01020 for specific instructions on allowances. Intent is for final connections of utilities to the building once that information is known.

Unit Prices:

Unit Prices are to be complete furnished in-place operations, and include all costs, incidental materials and work, insurance, fringes, bonds, engineering, overhead and profit. Reference the Trade Contract Proposal form for unit pricing required.

End of Work Category No. 10

Work Category No. 11 - Masonry

Work Included:

The subcontractor shall timely perform all Masonry work, as detailed below, in accordance with the contract documents (including Bidding Requirements, Proposal Section, Contract Forms, General Conditions, Supplemental Conditions, General Requirements, Addenda, etc.), including, but not limited to, the following Specification Sections and Work Scope Items. Unless otherwise noted, this contractor is responsible for all items specified in the following specifications sections:

Reference Work Category Index

Work Category Notes, including, but not limited to:

1. Furnish and install all brick/masonry assemblies, stone assemblies, concrete masonry units, cast stone caps, necessary anchoring of unit masonry work to structural and miscellaneous steel, weeps, and vents. Includes all labor, material, accessories, and equipment for a complete installation.
2. Furnish and install horizontal and vertical masonry wall reinforcement, anchors, through wall flashing, bond beams, insulation, dampproofing, fire safing (including perimeter of walls), top of wall plates, sealants, caulking, expansion joints assemblies and covers, compressible fillers, expansion joint fillers, and isolation material.
3. All through wall flashings shall be inspected by local building authority (if applicable) and Construction Manager prior to being concealed.
4. Receive and install all metal embedded lintels, masonry wall angle supports, bearing plates, anchors, steel lintels, counter flashing reglets, roof counter flashing, etc. as supplied by others to be installed in masonry. Includes final adjustment of items including where masonry walls abut metal deck or steel members.
5. Cooperate and coordinate masonry Work with other trades for proper locations of rough-ins and penetrations thru masonry walls. Required preparation of openings including cutting of block, grouting of walls, and installation of bearing plates by this contractor.
6. Include sawcutting and necessary patching where the removal of brick is required for structural tie-in or for corridor penetrations. All saw cutting needs to be wet cut to help reduce dust.
7. This work category will be responsible for review/coordination of approved shop drawings such as the curtain wall system, door and window openings, etc, prior to work taking place. These documents can be obtained for review from the Construction Manager.
8. Provide required brick and stone samples as well as a mock-up wall as indicated in the specifications, to be reviewed and approved by the architect and owner prior to construction starting for this work category.
9. Masonry wall cavities and top of walls shall be covered and protected each day.
10. Clean and wash all masonry and stone as specified and in accordance with approved sample. Protect any finished products from the cleaning agents.
11. Protect any new and/or existing adjacent surfaces, including from overspray of insulation, waterproofing, dampproofing, or mortar droppings.

Specific Notes and Details:

The following details and notes are included in this Work Category; this list is to clarify the specific items noted

below and does not exclude other details or otherwise limit the scope of work for this Work Category.

1. Brick veneer details, elevations, specifications, etc. to follow up in upcoming addendum. Brick work scope to be included in this work category.
 - A. Provide and install brick assembly including but not limited to brick, weeps, vents, mortar net, spray foam insulation, flashing, termination bar, grout, drip edge, cast stone sills, backer rod/caulking, lintels, and brick ties. (BP2 ADD2)
2. Provide and install steel embeds and lintels in masonry walls.

Related Work by Others:

1. Foundation insulation by WC 10.
2. CMU foundations changed to concrete foundations per BP2 addendum #2, concrete foundations by WC 10. (BP2 ADD2)

Allowances:

This Contractor shall include in their Base Bid a Construction Manager's allowance of **\$10,000**. Reference Section 01020 for specific instructions on allowances.

Unit Prices:

Unit Prices are to be complete furnished in-place operations, and include all costs, incidental materials and work, insurance, fringes, bonds, engineering, overhead and profit. Reference the Trade Contract Proposal form for unit pricing required.

End of Work Category No. 11