

ADDENDUM DATE: March 26, 2024

PROJECT: Northwoods Park Middle School Gymnasium & Renovation
904 Sioux Dr.
Jacksonville, NC 28540

OWNER: Onslow County Schools
200 Broadhurst Rd
Jacksonville, NC 28540

ARCHITECT: Smith Sinnett Architecture, P.A.
4600 Lake Boone Trail, Suite 205
Raleigh, North Carolina 27607

BIDS DUE: Thursday, **April 11th, 2024 at 2:00 p.m.**
Onslow County Schools Office
200 Broadhurst Rd.
Jacksonville, NC 28540
Meeting Room # 4



Please note, Project Documents, Addenda, and Contractors list are available at www.smithsinnett.com under the 'Documents' icon on the navigation bar.

Among other items, this Addendum addresses the Pre-Bid Agenda notes and Sign In sheet of those that attended are attached.

This Addendum shall be included in the contract for the above-referenced project. All General, Supplementary and Special Conditions, etc., as originally specified or as modified below shall apply to these items.

General

1. All questions and Requests for Substitution shall be submitted to the Architect prior to April 4th, 2024.
2. Exhibit A - Existing Drawings have been attached to this addendum.

Specifications

1. **Replace:** Section 04 20 00 - 5 – Unit Masonry
Section updated to provide correct information on brick size and bond pattern per architectural drawings.
2. **Replace:** Section 08 45 23 - 3 – Translucent Wall and Roof Assemblies
Section updated to provide correct Manufacturers 2.1. Kingspan has been deleted and replaced with Major Industries.

Architectural – Drawings

1. **Revision:** Replace sheet A1-02 FLOOR PLAN – GYM ADDITION
Floor plan has been revised to show concrete bench beyond and extents of sidewalk around the gym addition.

2. **Revision:** Remove example sheets EX1.0, EX1.1 and the Duke Energy Progress lighting plan from the bid set.

Attached:

Pre-Bid Conference Agenda (19th March, 2024)
Pre-Bid Sign In (19th March, 2024)
Section 04 20 00 - 5 – Unit Masonry
Section 08 45 23 - 3 – Translucent Wall and Roof Assemblies
Sheet A1-02 FLOOR PLAN – GYM ADDITION
Exhibit A – Existing Drawings

Northwoods Park Middle School Gymnasium & Renovations
Project No. 2022035
Pre-Bid Conference Agenda
March 19th, 2024, at 10:00 a.m.



Owner: Onslow County Schools
200 Broadhurst Rd.
Jacksonville, North Carolina 27870

Location: 904 Sioux Dr, Jacksonville NC 28540

Architect: Smith Sinnett Architecture, P.A.

4600 Lake Boone Trail, Suite 205
Raleigh, NC 27607
Phone: (919) 781-8582
Fax: (919) 781-3979

Amber Christensen achristensen@smithsinnett.com
Christine Proctor cproctor@smithsinnett.com
Ed Gordon egordon@smithsinnett.com

On behalf of the Owner and Smith Sinnett Architecture, we would like to thank you for your interest and attendance at this Pre-Bid Conference.

I Bid:

Bids will be received until **2:00 pm on Thursday April 11th, 2024** for a Single Prime Contract at:

Onslow County Schools Administration
200 Broadhurst Road
Jacksonville, NC 28540

- Meeting Room #4

As this is a formal bid process, all bids will be opened publicly at 2:00 p.m. on the date listed above.

II Bid Day Documents: Refer to Specifications.

1. Proposal Form - Signed, Sealed and Attested (or witnessed)
2. Bid Bond (5%) or Certified Check (5%)
3. Minority Business Guidelines (10% Goal)
4. Affidavit A or Affidavit B
5. E-Verify Affidavit – Exhibit A
6. Bid envelope should be sealed with the following information listed on the outside of the envelope.
 - a. Bidder's Name and Address
 - b. North Carolina Contractor's License Number
 - c. Name of Project
7. If awarded the Contract, the Bidder must provide an executed Performance Bond and Payment Bond for 100% of the Contract by a company licensed in North Carolina. Certificates of Insurance meeting the requirements indicated in the Specifications will also be required.
8. Any bids that have qualifying notes or comments will be rejected.
9. For mailed bids, it is the contractor's responsibility to ensure the bid arrives prior to the bid opening time. Place the bid in a double envelope with "Sealed Bid Do Not Open" written on the envelope.

III Alternates / Allowances:

ALTERNATES:

- A. **Alternate No. 1; Paint Existing Exposed Steel:** State the amount to be added to the Base Bid for providing all labor and materials to prepare and paint all exterior exposed steel as shown and noted in the Contract Drawings per the plans and specifications.
- B. **Alternate No. 2; Owner Preferred Door Hardware Manufacturers:** State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below:
1. Door Locks: Manufacturer / Schlage
 2. Exit Devices: Manufacturer / Von Duprin
 3. Closers: Manufacturer / LCN
- C. **Alternate No. 3; Owner Preferred Plumbing Manufacturer:** State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below:
1. Water Cooler with Bottle Filler: Manufacturer / Elkay
- D. **Alternate No. 4; Owner Preferred Mechanical Manufacturers:** State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below:
1. HVAC Equipment for Chillers and Air Handlers: Manufacturer
 - a. Trane – For the Existing Building Renovation portion of the project
 - b. Aaon – For the new Gymnasium Building
 2. HVAC Controls: Manufacturer / Schneider **OR** Brady
- E. **Alternate No. 5; Owner Preferred Electrical Manufacturers:** State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below:
1. Fire Alarm System: Manufacturer / Notifier
 2. Electrical Equipment: Manufacturer / Square D
 3. Intercom Equipment: Manufacturer / Nyquist Paging
- F. **Alternate No. 6; Owner Preferred Termite Treatment Manufacturer:** State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below:
1. Termiticide / Termidor SC
- G. **Alternate No. 7; Owner Preferred Translucent Wall Manufacturer:** State the amount to be added to the Base Bid for providing all labor and materials indicated and required to accomplish Work involved in providing the Owner Preferred Manufacturers Listed Below:
1. Translucent Wall Assemblies / Kalwall
- H. Note that for any and all Preferred Alternates, equal products are **ONLY** allowed in the Base Bid.

ALLOWANCES

(Refer to Division 01 Section 01 21 00 – Allowances for amounts to be included in bid) *** Follow the below numbering when filling out the proposal form.

- A. **Allowance No. UP/A-1:** Unsuitable soils removal and disposal off-site.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 2. Unit of measurement: cubic yard in place prior before removal.
 3. Include the following in the unit price:
 - a. Excavation, loading, transport and legal disposal of all materials.
 - b. All disposal fees.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum.
 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 6. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 7. **Allowance Quantity: 1,000-cy.**
- B. **Allowance No. UP/A-2:** Replacement of removed rock or unsuitable soils removal with off-site suitable soil in-place.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 2. Unit of measurement: cubic yard of void to be filled.
 3. Include the following in the unit price:
 - a. Suitable soil materials from Contractor's off-site source.
 - b. Excavation, loading, transport, placement, moisture control and compaction of suitable soil into void remaining from removed rock or unsuitable soil.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum. Unit price shall not include the excavation of unsuitable soil or rock.
 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 6. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 7. **Allowance Quantity: 500-cy.**
- C. **Allowance No. UP/A-3:** Replacement of authorized excavation of unsuitable soils or rock with Aggregate Base Course (ABC) stone material.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 2. Unit of measurement: cubic yard of void to be filled, compacted in place.
 3. Include the following in the unit price:
 - a. Certified ABC materials from Contractor's off-site source.
 - b. Excavation, loading, transport, placement, moisture control and compaction of materials into void remaining from removed rock or unsuitable soils.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum. Unit price shall not include the excavation of unsuitable soil or rock.
 5. Include costs related to removal of rock or unsuitable soil in other Unit Prices.
 6. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 7. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 8. **Allowance Quantity: 250-cy.**

- D. **Allowance No. UP/A-4:** Replacement of authorized excavation of unsuitable soils or rock with #57 Washed Stone material.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 2. Unit of measurement: cubic yard of void to be filled, compacted in place.
 3. Include the following in the unit price:
 - a. Certified #57 Washed Stone materials from Contractor's off-site source.
 - b. Excavation, loading, transport, placement, moisture control and compaction of materials into void remaining from removed rock or unsuitable soil.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum. Unit price shall not include the excavation of unsuitable soil or rock.
 5. Include costs related to removal of rock or unsuitable soil in other Unit Prices.
 6. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner based on volume of void to be filled.
 7. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 8. **Allowance Quantity: 250-cy.**
- E. **Allowance No. UP/A-5:** Woven Geo-Textile Fabric in place.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 2. Unit of measurement: square yard of ground surface covered. Overlap, waste or excess shall not be included in payment measurements.
 3. Include the following in the unit price:
 - a. Materials and transport to site.
 - b. Unloading, handling, and placement.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum.
 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 6. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 7. **Allowance Quantity: 260-sy.**
- F. **Allowance No. UP/A-6:** Biaxial Geo-Grid in place.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.
 2. Unit of measurement: square yard of ground surface covered. Overlap, waste or excess shall not be included in payment measurements.
 3. Include the following in the unit price:
 - a. Materials and transport to site.
 - b. Unloading, handling, and placement.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum.
 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 6. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 7. **Allowance Quantity: 260-sy.**
- G. **Allowance No. UP/A-7:** Subsurface Drain.
1. Purpose: To adjust the contract sum in case a quantity different from that indicated in the allowance is required.

2. Unit of measurement: linear foot of 24" wide x 36" deep backhoe excavated trenches filled with NCDOT No. 57 Stone encapsulated in non-woven geotextile fabric, Mirafi 140N, or approved equal. 4" perforated HDPE pipe installed near bottom of drain. Drain by gravity at a minimum slope of 0.25 percent.
 3. Include the following in the unit price:
 - a. Materials and transport to site.
 - b. Unloading, handling, placement, and compaction.
 - c. Overhead and profit.
 4. Include all other related costs in the contract sum.
 5. Method of measurement: Quantities will be verified by a soils and materials engineer employed by the Owner.
 6. Quantity Allowance: Coordinate unit price with allowance adjustment requirements of Division 01 Section "Allowances."
 7. **Allowance Quantity: 500-lf.**
- H. **Allowance No. UP/A-8:** Topical Moisture Mitigation System
1. Include sufficient moisture vapor mitigation system to be applied to the existing building's concrete slab as an Allowance in the Base Bid where moisture emissions exceed 5 lbs / 1000sf in 24 hours. Allowance shall be based on the unit price quoted in the Proposal.
 2. **Quantity: 8,000 sf.**
- I. **Allowance No. A-9:** Access Control – Security Cameras, Intrusion Detection, & Card Readers
1. Allow a lump sum for purchase and installation of Security Cameras, Intrusion Detection, and a complete Access Control System, as required by the Owner for connections between existing system and new addition and renovations, and as defined by and specified in contract documents. **Lump Sum: \$90,000.**
- J. **Allowance No. A-10:** Structured Cabling
1. Allow a lump sum for purchase and installation of structured cabling, as defined by and specified in contract documents. **Lump Sum: \$60,000.**
- K. **Allowance No. A-11:** Technology, Furnishings, & Gymnasium Sound System
1. Allow a lump sum for purchase and installation of network electronics and furnishings, including but not limited to switches, wireless access points, (6) mobile display carts with monitors, and complete gymnasium sound system as defined by and specified in contract documents. **Lump Sum: \$110,000.00.**
- L. **Allowance No. A-12:** Appliances
1. Allow a lump sum for purchase and installation of appliances, as defined by and specified in contract documents. **Lump Sum: \$15,000.00.**
- M. **Allowance No. A-13:** Signage
1. Allow a lump sum for purchase and/or construction of wayfinding, site signage, interior graphics, interior panel signage, fire extinguisher signage, and dimensional lettering, as defined by and specified in "Signage" section of Division 10. Signage material and applicable sales taxes will be paid for as part of this allowance. Note: Labor for Sign Installation shall be included in the Base Bid. **Lump Sum: \$10,000.00.**
- N. **Allowance No. A-14:** Bi-directional Amplification (BDA)
1. Allow a lump sum for purchase and installation of a BDA system. Determination of the need of a BDA system will be determined via field testing which will occur near the end of construction.
 2. **Lump Sum: \$75,000.**
- O. **Allowance No. A-14:** Contingency
1. Contingency allowance shall be provided as follows and the price shall be adjusted based on the actual cost of subcontracts, materials, and labor, excluding overhead and profit. Allowances for overhead and

profit shall be provided within the contract price. If there is unused allowance at the conclusion of the project, the allowance plus 5% profit will be deducted from the contract.

2. **Contingency: \$385,000.00**

IV E-Procurement Vendors

E-Procurement rules WILL apply for Registered E-Procurement Vendors only. If the low bidder is an E-Procurement Vendor, the owner will not be responsible for any fees associated with the E-Procurement process incurred by the low bidder or any subcontractor. Refer to 009010 Special Conditions Article 8.

V Schedule:

Notice to Proceed:

Substantial Completion Phase 1

Substantial Completion Phase 2

Final Completion:

May 10th, 2024 - *anticipated*

June 1st, 2025

December 1st, 2025

30 days after Substantial Completion

VI Liquidated Damages:

See Supplementary General Conditions: \$1,000.00 each calendar day in excess of the stated completion time.

VII Examination of Bid Documents:

All Bidders are expected to fully examine and familiarize themselves with the Drawings, Specifications and Existing Conditions. All Bidders should read the scopes of the bid package. Any questions or clarifications should be directed to the Architect. No allowances will be made after the bids are received for any oversight due to failure to examine the documents.

VIII Substitutions:

Substitutions or approvals of "Equals" will only be accepted if approved by the Architect in writing at least seven (7) days business prior to the receipt of bids: April 2nd, 2024.

IX Technical Questions:

Technical questions should be submitted to the Architects representative as soon as possible by phone or preferred email.

Amber Christensen
achristensen@smithsinnett.com
(919) 781-8582

X Construction Documents:

This is a formal bid and construction documents and specifications are available in PDF format upon ShareFile link request. All addenda as well as the plan holders list will also be posted to the Smith Sinnett Architecture website under the "Documents" tab. If you have any issues or cannot download any of the documents, please let us know and we will work to make sure you can get them.

XI Addenda:

Addenda will be the responsibility of the contractor and every effort will be made to emailed everyone on the Architect's plan holders list.

XII Plan Holders and Bidders List:

Plan Holders and Bidders List will be posted on our website. @ <http://smithsinnett.com/documents/>

XII Sexual Offender Registry Check Certification Form

Exhibit B – Required Prior to Award

All Contractor, Subcontractor, and other individuals must sign in at the school to verify no person is on the registry.

Northwoods Park Middle School Gymnasium & Renovations
Project No. 2022035
Pre-Bid Conference Agenda
March 19th, 2024, at 10:00 a.m.

smithsinnett
ARCHITECTURE

XIV Architect's brief description of the project:
Verbal description / discussion / walk the project site

2.3 CONCRETE MASONRY UNITS (CMUs)

- A. Shapes: Provide shapes indicated and as follows:
1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
 2. Provide square-edged units for outside corners, unless otherwise indicated.
- B. Concrete Masonry Units: **ASTM C 90 (latest edition)**.
1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 2000 psi net average of three units.
 2. Weight Classification: Units shall be lightweight blended with aggregates that comply with ASTM C331 and ASTM C33 with a total mix weight not more than 105 lbs./cuft. and not less than 90lbs/cuft.
 3. Size (Width): Manufactured to dimensions 3/8 inch less than nominal dimensions.
 4. Exposed Faces: Provide color and texture matching the range represented by Architect's sample.
 5. Aggregates: Do not use aggregates made from pumice, scoria, or tuff. All units will be free of organic impurities that will cause rusting, staining, or popouts and will not contain combustible material. The use of coal cinders, coal ash, bottom ash or other similar waste products are not permitted and shall not be allowed.
 6. CMU used in fire rated walls shall meet UL Design Assembly criteria.
 7. Basis for Design: Oldcastle APG - Adams: Redline
 8. Approved Manufacturers:
 - a. Oldcastle APG - Adams
 - b. Johnson Concrete
 - c. York Building Products
 - d. Martinsville Concrete Products
 9. Products offered for substitution shall be pre-approved prior to bidding in accordance with the conditions of the contract documents and shall be so indicated in an addendum prior to bid only. Any other approval shall not be valid.
- C. Concrete Building Brick: ASTM C 55.
1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of **3500 psi**.
 2. Weight Classification: Normal Weight
 3. Size (Actual Dimensions): 3-5/8 inches wide by 2-1/4 inches high by 7-5/8 inches long.

2.4 BRICK

- A. General: Provide shapes indicated and as follows:
1. For ends of sills and caps and for similar applications that would otherwise expose unfinished brick surfaces, provide units without cores or frogs and with exposed surfaces finished.
- B. Face Brick: ASTM C 216, Grade SW Type FBX.
1. Size (Actual Dimensions): **3-5/8 inches** wide by **2-1/4 inches** high by **7-5/8 inches** long.
 2. Bond Pattern: Unless otherwise indicated, lay exposed masonry in **running bond**.
 3. Basis for Design:
 - a. Type 1: Palmetto Brick- Flashed Wirecut
 - b. Type 2: Palmetto Brick- Whitestone
 4. Provide for one of the following:
 - a. Type 1:
 - 1) Palmetto Brick: Flashed Wirecut
 - 2) Palmetto Brick: Flashed Smooth
 - 3) Triangle Brick: Flashed Common
 - 4) Approved Equal
 - b. Type 2:
 - 1) Palmetto Brick: Whitestone
 - 2) Approved Equal

- C. Provide anchors and inserts to be placed in adjacent construction in proper sequence so as not to delay the Work.
- D. Ensure that locating templates and other information required for installation of products of this section are furnished to affected trades in time to prevent interruption of construction progress.
- E. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
- F. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.7 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of units that fails in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Uncontrolled water leakage.
 - b. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
 - c. Yellowing of acrylic glazing.
 - d. Breakage of polycarbonate glazing.
 - e. Deterioration of insulating-glass hermetic seal.
 - 2. Warranty Period: **Five** years from date of Final Acceptance.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. American Skylites.
 - 2. APC Daylites; C/S Group.
 - 3. Auburn Skylights; Major Industries, Inc.
 - 4. Bristolite Skylights.
 - 5. CPI International.
 - 6. Dur-Red Products.
 - 7. Exarc Skylights, Inc.
 - 8. Fiore Skylights, Inc.
 - 9. Fox Lite, Inc.; Skymaster Skylights.43
 - 10. GE Polymer Shapes; General Electric Company.
 - 11. Glazed Structures Inc.
 - 12. Hi Pro International, Inc.
 - 13. Kalwall Corporation.
 - 14. Lane-Aire Manufacturing Corp.
 - 15. Naturalite Skylight Systems; Vistawall Group (The).
 - 16. Plasteco, Inc.
 - 17. Plastic Engineering Company of Tulsa, Inc.
 - 18. Skyline Sky-Lites, LLC.
 - 19. Solar Industries, Inc.
 - 20. Sunglo Skylight Products.
 - 21. VELUX America.
 - 22. Wasco Products, Inc.
 - 23. **Major Industries**

- NOTES:**
- ALL INTERIOR WALL TYPES TO BE 'A' UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR WALL TYPES TO BE '1' UNLESS OTHERWISE NOTED.
 - WALL DIMENSIONS ARE TO FACE OF METAL STUD, FACE OF CONCRETE MASONRY UNIT (CMU), OR CENTERLINE OF COLUMN.
 - ALL RATED WALL CONSTRUCTION TO COMPLY WITH ALL REQUIREMENTS.
 - ALL CMU WALLS GOING TO BOTTOM OF DECK ARE TO PROVIDE A 1" GAP FOR DEFLECTION, FILL GAP WITH MINERAL WOOL INSULATION ALONG THE ENTIRE LENGTH OF WALL, AT FIRE RATED WALLS, ENSURE SPRAY APPLIED FIRE SEALANT BOTH SIDES.
 - ALL METAL STUD WALLS TERMINATING AT BOTTOM OF DECK ARE TO PROVIDE A DEFLECTION TRACK SECURED TO THE UNDERSIDE OF THE DECKING, NEST TOP TRACK BUT DO NOT ATTACH TO DEFLECTION TRACK, FILL FLUTE IN METAL DECK WHERE REQUIRED.
 - ALL WALLS EXTEND TO DECK AND ARE BRACED TO DECK AT HEAD ON ALTERNATE STUDS OR 32" OC FOR CMU WALLS, UNLESS OTHERWISE NOTED.
 - CONTROL JOINTS SHALL BE AS SHOWN ON PLANS AND ELEVATIONS OR SPACED AT A MINIMUM OF 20'-0" OC AND A MAXIMUM OF 32'-0" OC WITH ONE CONTROL JOINT LOCATED WITHIN 3'-4" OF ANY CORNER. FOR INTERIOR GYPSUM WALL CONTROL JOINTS SEE DETAIL. SEE FINISH PLANS AND SCHEDULE FOR WALL, FLOOR, BASE, AND CEILING TYPES AND FINISHES.
 - REFER TO STRUCTURAL DRAWINGS FOR LOCATION OF REINFORCING, BOND BEAMS, BRACING, ETC.
 - ALL COLUMN CHASES TO HAVE GYP BOARD ON ROOM SIDE OF WALL, TYPICAL UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR SIDEWALKS SHALL SLOPE AWAY FROM THE BUILDING AT 1/4" PER FOOT, MINIMUM.
 - ALL EXTERIOR WINDOWS TO HAVE ROLLER SHADE BLINDS UNLESS OTHERWISE NOTED.
 - FURNITURE AND EQUIPMENT SHOWN DASHED ON PLANS IS NOT IN CONTRACT (NIC), GC TO PROVIDE WOOD BLOCKING FOR ALL WALL/CEILING MOUNTED ACCESSORIES.
 - FIELD VERIFY FINAL ROOM DIMENSIONS PRIOR TO CASEWORK FABRICATION.
 - ALL CERAMIC TILE TO HAVE CONTROL JOINTS THAT ALIGN WITH CONTROL JOINTS IN CONCRETE SLAB.
 - THERE SHALL BE NO PENETRATIONS IN THROUGH WALL FLASHING.
 - DOOR JAMB FROM INTERSECTING WALLS: CMU - 8" UNLESS OTHERWISE NOTED. STUD - 4" UNLESS OTHERWISE NOTED.

Section 303 Structural Design

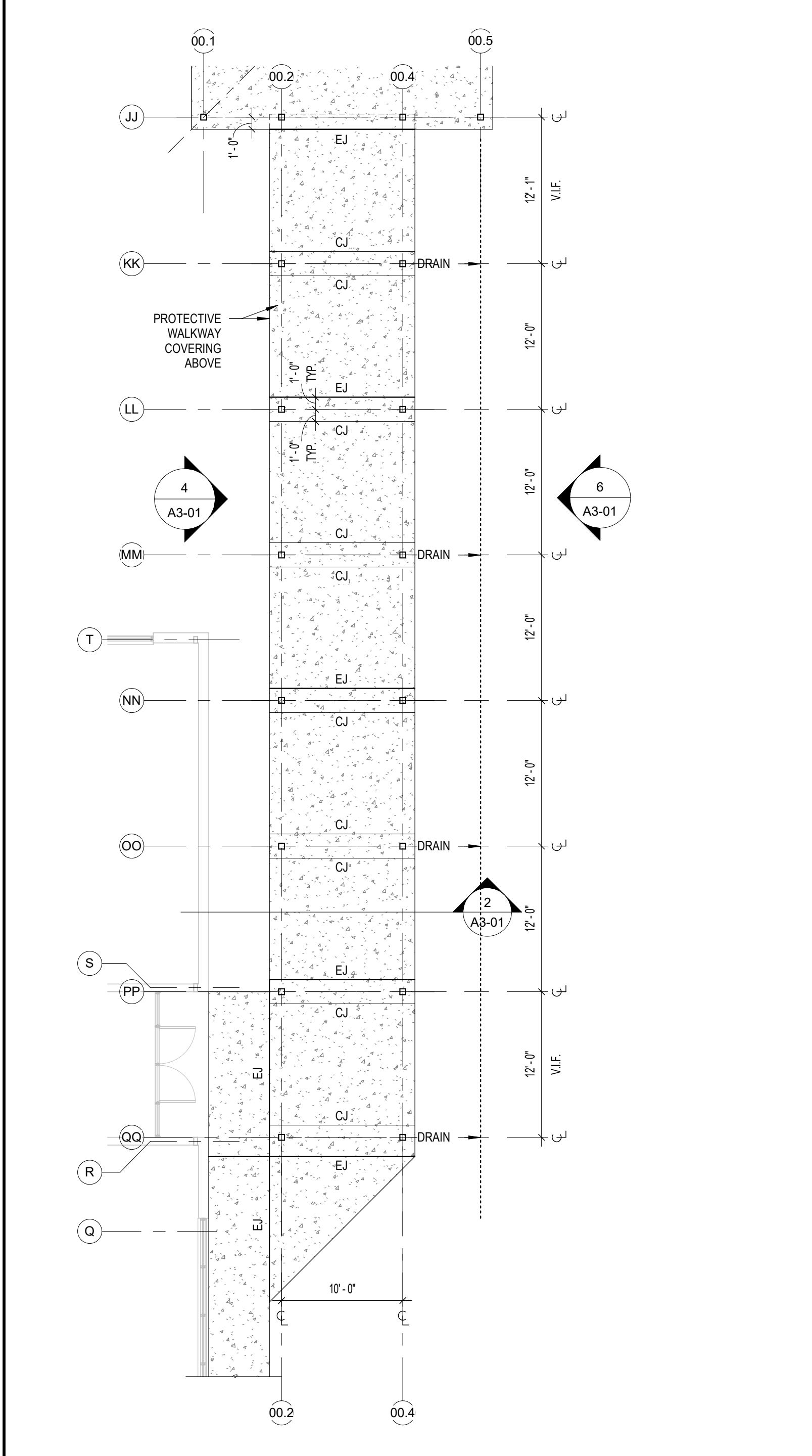
303.1 Design
The structural design shall be in accordance with the building code.

303.2 Loads
Beams, girders and joists, ceiling, and girders shall be designed for a uniform live load of 100 pounds per square foot (psf) (4788 Pa). Prest. beams shall be designed for a uniform live load of 50 psf (2394 Pa). The components of the installation shall be designed to support the loads listed in Table 303.2.

TABLE 303.2 DESIGN LOADS

TIERED SEATING ELEMENT	LOAD TYPE	LOAD
Seats (vertical)	L	120 pounds per linear foot.
Treads	L	Stair treads and stepped joist treads shall be designed to resist a minimum concentrated load of 300 pounds on an area of 4 square inches.
Handrails and guards, uniform load	R _u	Handrail assemblies and guards shall be designed to resist a load of 50 pounds per linear foot (pounds per foot) applied in any direction at the top. The supporting elements shall transfer this load to the structure.
Handrails and guards, concentrated load	R _c	Handrail assemblies and guards shall be able to resist a single concentrated load of 200 pounds, applied in any direction at any point along the top. Attachment devices and supporting elements shall transfer this load to the structure.
Guards, rail components	R _g	Intermediate rails (all those except the handrail, balusters, and panel fills (including infill components)) shall be designed to withstand a horizontally applied normal load of 50 pounds on an area equal to 1 square foot, including openings and space between rails. Application of the loads shall not allow joint openings greater than that permitted by Sections 403.2 and 503.2.

For SI: 1 square inch = 645.16 mm²; 1 square foot = 0.0929 m²; 1 pound = 4.448 N; 1 pound per linear foot = 14.594 N/m.

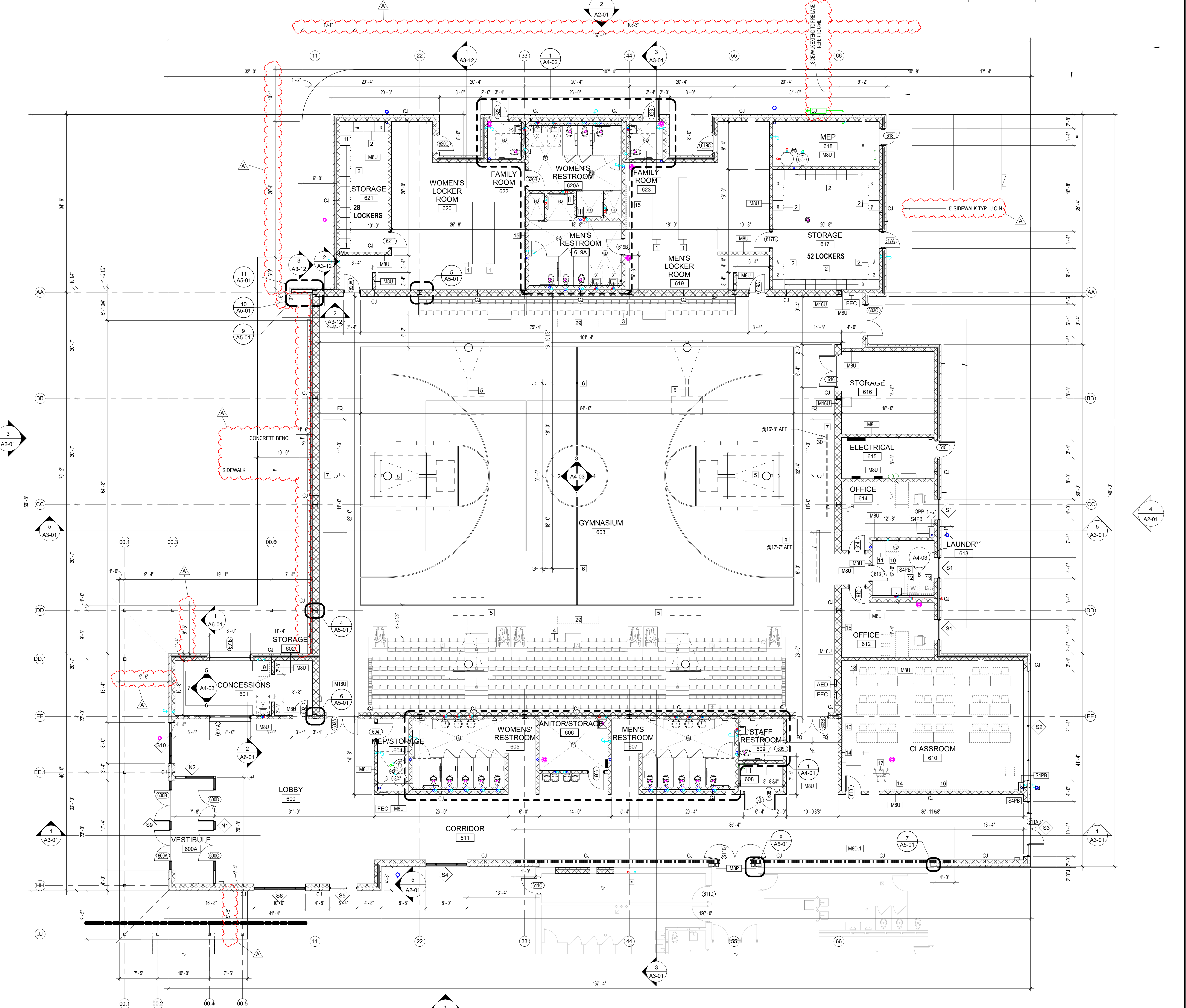


EQUIPMENT SCHEDULE - NWPMS

MARK	ITEM	FURNISHED AND INSTALLED BY	REMARKS
1	LOCKER BENCH	CFCI	
2	LOCKER	CFCI	DOUBLE TIER
3	BLEACHERS (TEAM SIDE)	CFCI	
4	BLEACHERS (SPECTATOR SIDE)	CFCI	
5	BASKETBALL HOOP, CEILING SUSPENDED, FORWARD FOLD	CFCI	ELECTRIC, REFER TO ELECTRICAL DRAWINGS
6	VOLLEYBALL TENNIS FLOOR SLEEVES	CFCI	
7	WALL PADS	CFCI	
8	8'x2' BASKETBALL/VOLLEYBALL WRESTLING LED SCOREBOARD	CFCI	WIRELESS RECEIVER W/ CONTROLLERS
9	WASHER	CFCI	
10	ICE MAKER	CFCI	
11	REFRIGERATOR	CFCI	
12	WASHER	CFCI	
13	DRYER	CFCI	
14	4'-0" W X 4'-0" H TAC BOARD	CFCI	

EQUIPMENT SCHEDULE - NWPMS

MARK	ITEM	FURNISHED AND INSTALLED BY	REMARKS
15	8' MARKER BOARD	CFCI	
16	12' MARKER BOARD	CFCI	
17	MOBILE TV CART	CFCI	REFER TO ALLOWANCES
18	PAPER TOWEL DISPENSER	CFCI	
19	SOAP DISPENSER	CFCI	
20	EMERGENCY SHOWER EYEWASH	CFCI	<varies>
21	DISHWASHER	CFCI	REFER TO ALLOWANCES, APPLIANCES
22	24" HOOK STRIP	CFCI	MOUNT @ 46" AFF
23	36" HOOK STRIP	CFCI	MOUNT @ 46" AFF
24	FIRE BLANKET CABINET	CFCI	
25	GOOGLE CABINET	CFCI	
26	SAFETY DATA SHEET BINDER RACK	CFCI	
28	SCORERS TABLE	CFCI	
30	MOTORIZED PROJECTION SCREEN - CEILING MOUNTED	CFCI	
31	EMERGENCY EYEFACE WASH - COUNTERTOP MOUNTED	CFCI	
32	MOBILE DEMONSTRATION BENCH	CFCI	



2 A1-02 FLOOR PLAN - CONNECTOR CANOPY
1/8" = 1'-0"

1 A1-02 FLOOR PLAN - GYM ADDITION
1/8" = 1'-0"

smith sinnett ARCHITECTURE

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Raleigh, NC 27607

info@smithsinnett.com

ARCHITECTURAL SEAL

SMITH SINNETT ARCHITECTURE, P.A.

NO. 00712

CONSTRUCTION DOCUMENTS

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Smith Sinnett Architecture, P.A. 2024

THIS DRAWING IS FORMATTED TO BE PRINTED ON A 30" X 42" SHEET

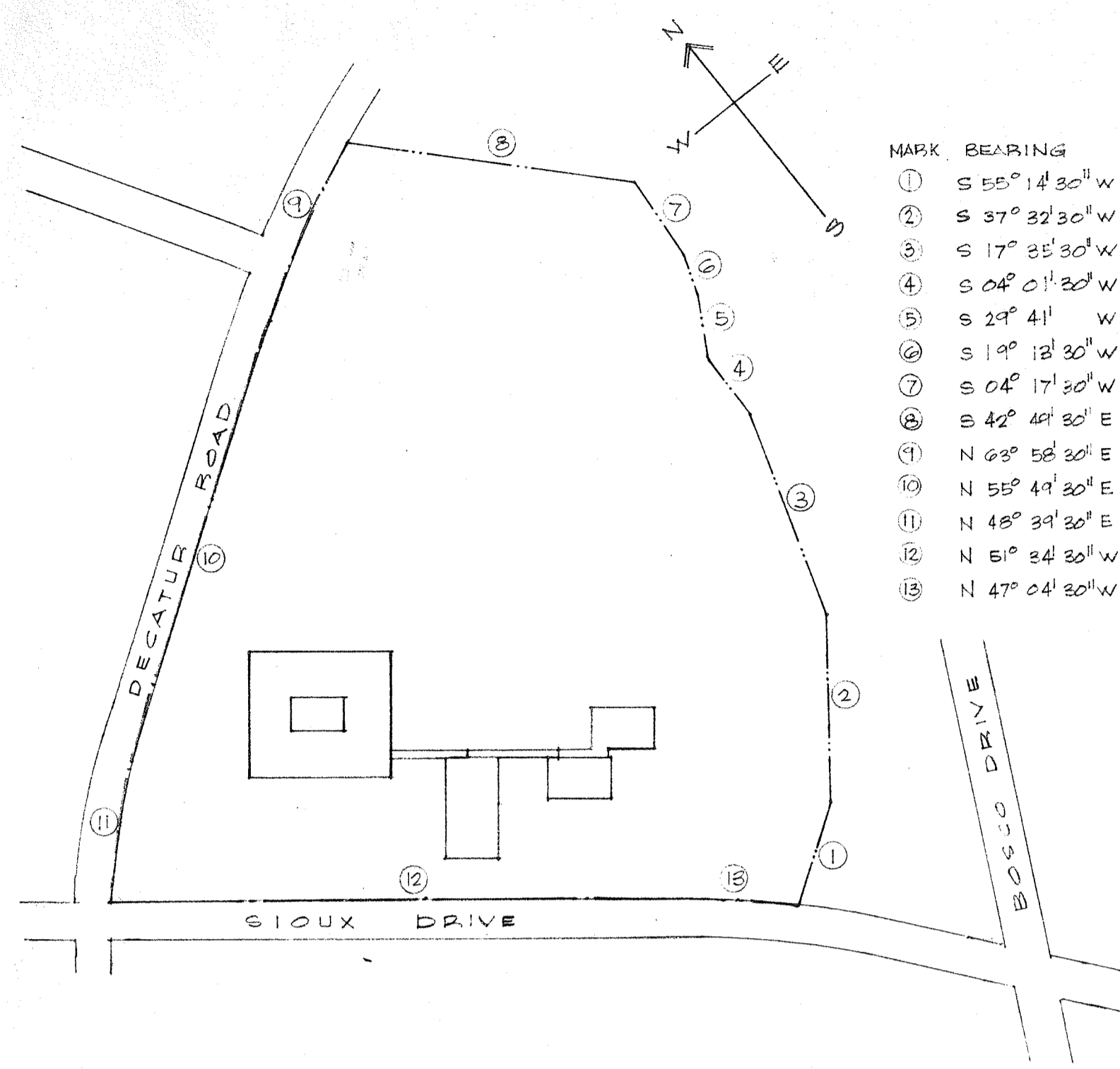
ONslow COUNTY SCHOOLS
NORTHWOODS PARK MIDDLE SCHOOL
GYMNASIUM & RENOVATION
904 SIOUX DR, JACKSONVILLE, NC 28540

ID	DATE	DESCRIPTION
A	03/29/2024	ADDENDUM 1

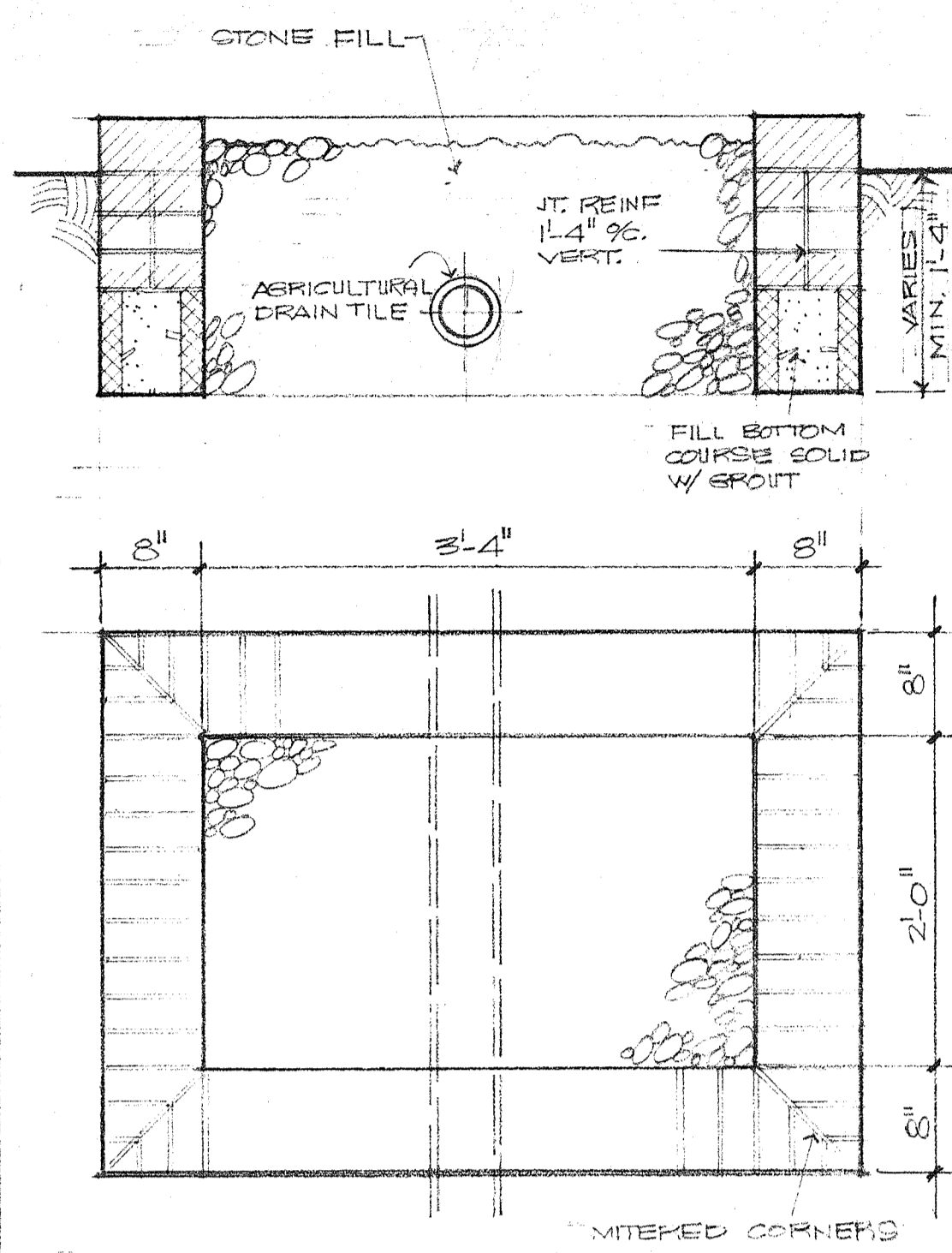
KEY PLAN: NO SCALE

DRAWN BY: AC, MA
CHECKED BY: FJ, LP

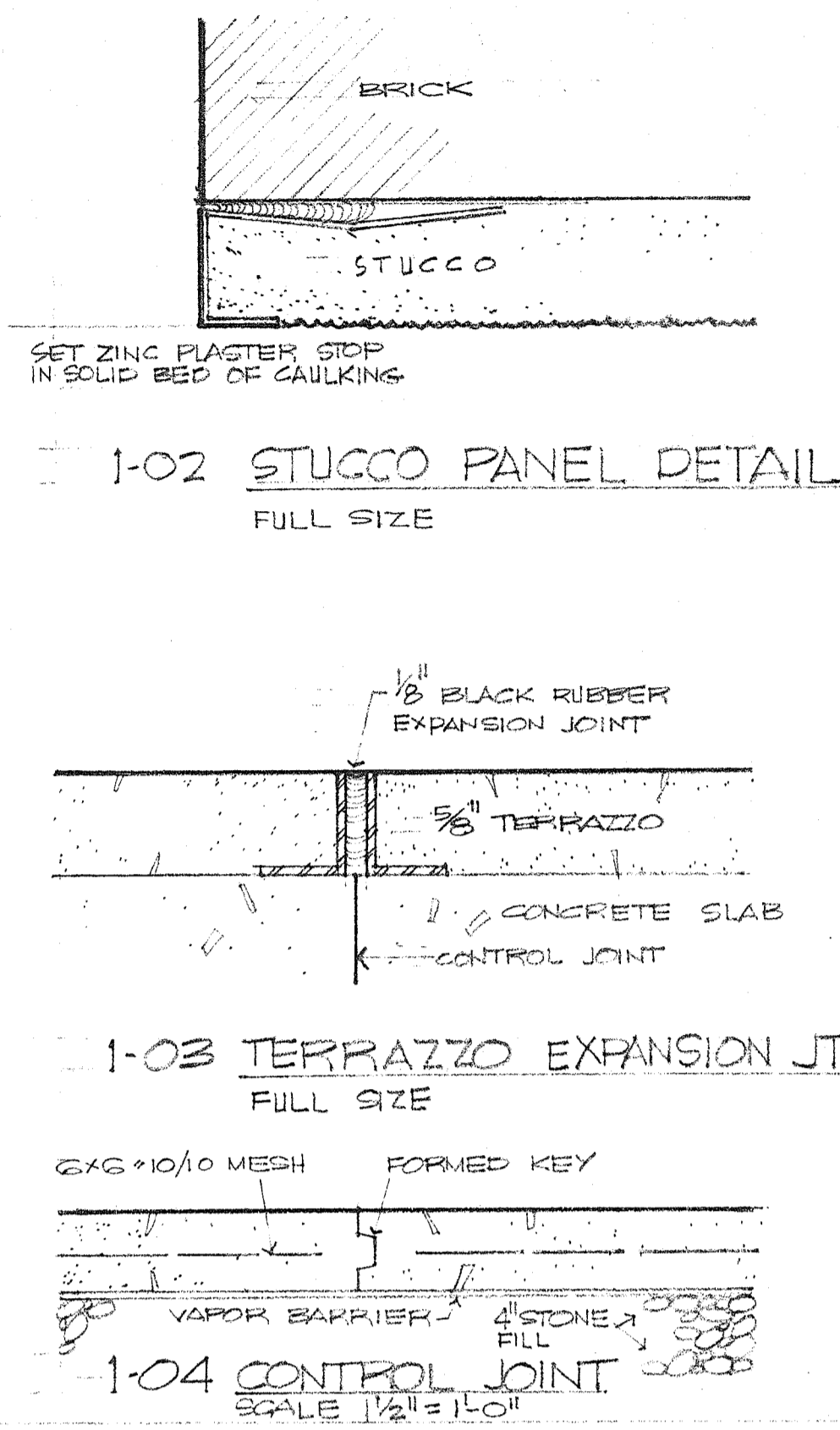
FLOOR PLAN - GYM ADDITION



MARK	BEARING	LENGTH
1	S 55° 14' 30" W	159.5
2	S 37° 27' 30" W	280.0
3	S 17° 25' 30" W	205.0
4	S 04° 01' 30" W	110.0
5	S 24° 41' W	100.0
6	S 1° 12' 30" W	60.0
7	S 04° 17' 30" W	125.0
8	S 42° 44' 30" E	425.15
9	N 69° 58' 30" E	230.7
10	N 55° 41' 30" E	765.27
11	N 48° 34' 30" E	178.84
12	N 51° 24' 30" W	786.37
13	N 47° 24' 30" W	228.18



1-01 TYPICAL CATCH BASIN
SCALE 1" = 1'-0"
PROVIDE ONE PER EA. ROOFTER.



1-02 STUCCO PANEL DETAIL
FULL SIZE

1-03 TERRAZZO EXPANSION JT.
FULL SIZE

1-04 CONTROL JOINT
SCALE 1/4" = 1'-0"

LEGEND OF MATERIALS

- BRICK
- MASONRY BLOCK
- CONCRETE
- FIBER DECKING
- STRUCTURAL STEEL
- EARTH
- STONE FILL

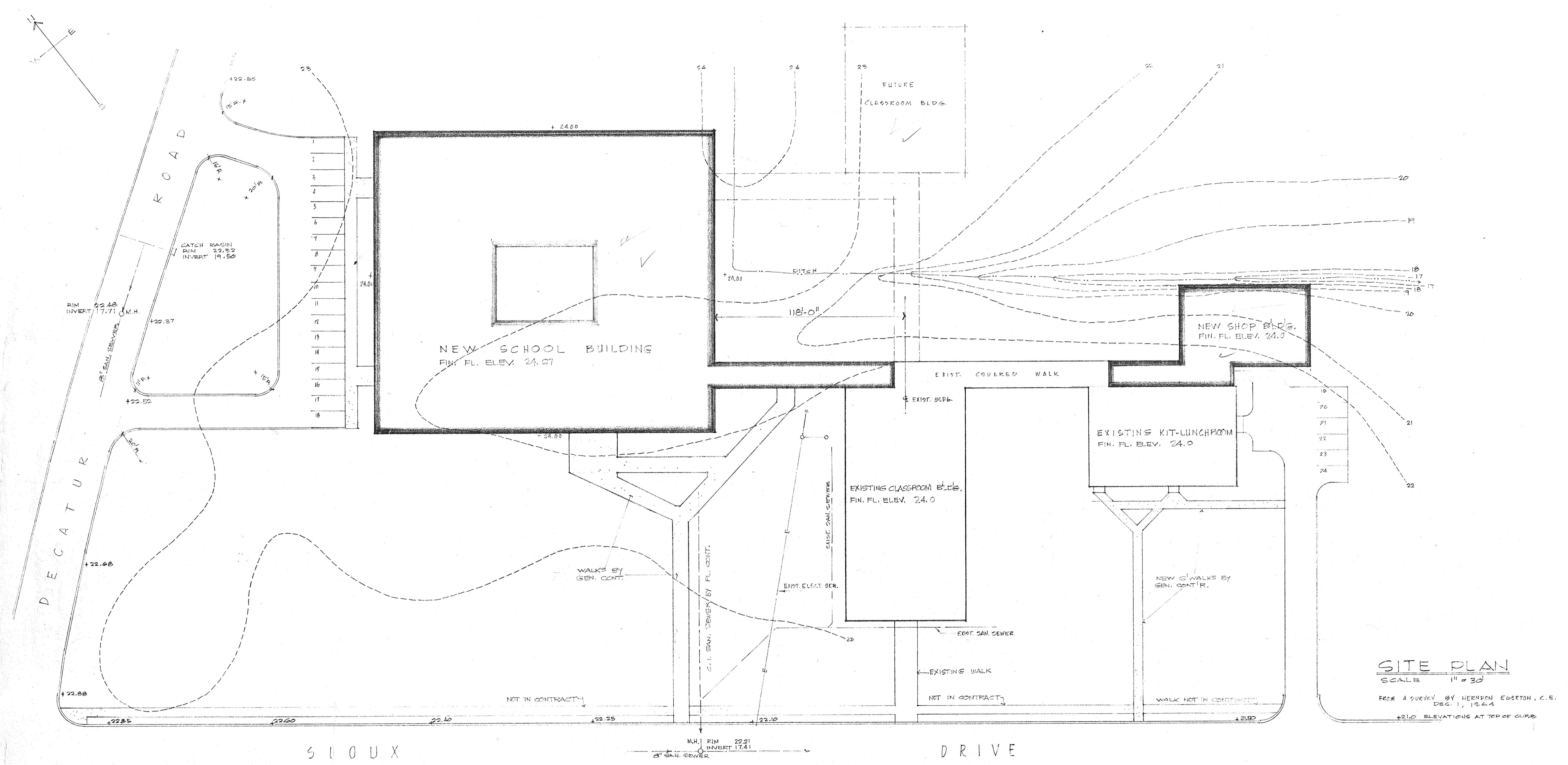
SCHEDULE OF DRAWINGS

- A-1 SITE PLAN
- A-2 FLOOR PLAN
- A-3 FLOOR PLAN
- A-4 SCHEDULES
- A-5 ELEVATIONS
- A-6 ELEVATIONS
- A-7 WALL SECTIONS - DETAILS
- A-8 BUILDING SECTIONS - DETAILS
- A-9 LARGE SCALE PLANS - CABINETWORK
- S-1 FOUNDATION PLAN - DETAILS
- S-2 FOUNDATION PLAN
- S-3 FRAMING PLAN - DETAILS
- S-4 FRAMING PLAN
- S-5 STRUCTURAL DETAILS
- P-1 PLUMBING SITE PLAN - DETAILS
- P-2 PLUMBING PLANS - DETAILS
- P-3 PLUMBING DETAILS
- P-4 PLUMBING DETAILS
- H-1 HEATING SITE PLAN - DETAILS
- H-2 HEATING FLOOR PLAN
- H-3 HEATING DETAILS
- E-1 ELECTRICAL SITE PLAN - FLOOR PLAN
- E-2 ELECTRICAL FLOOR PLAN
- E-3 ELECTRICAL DETAILS

DETAIL NOMENCLATURE

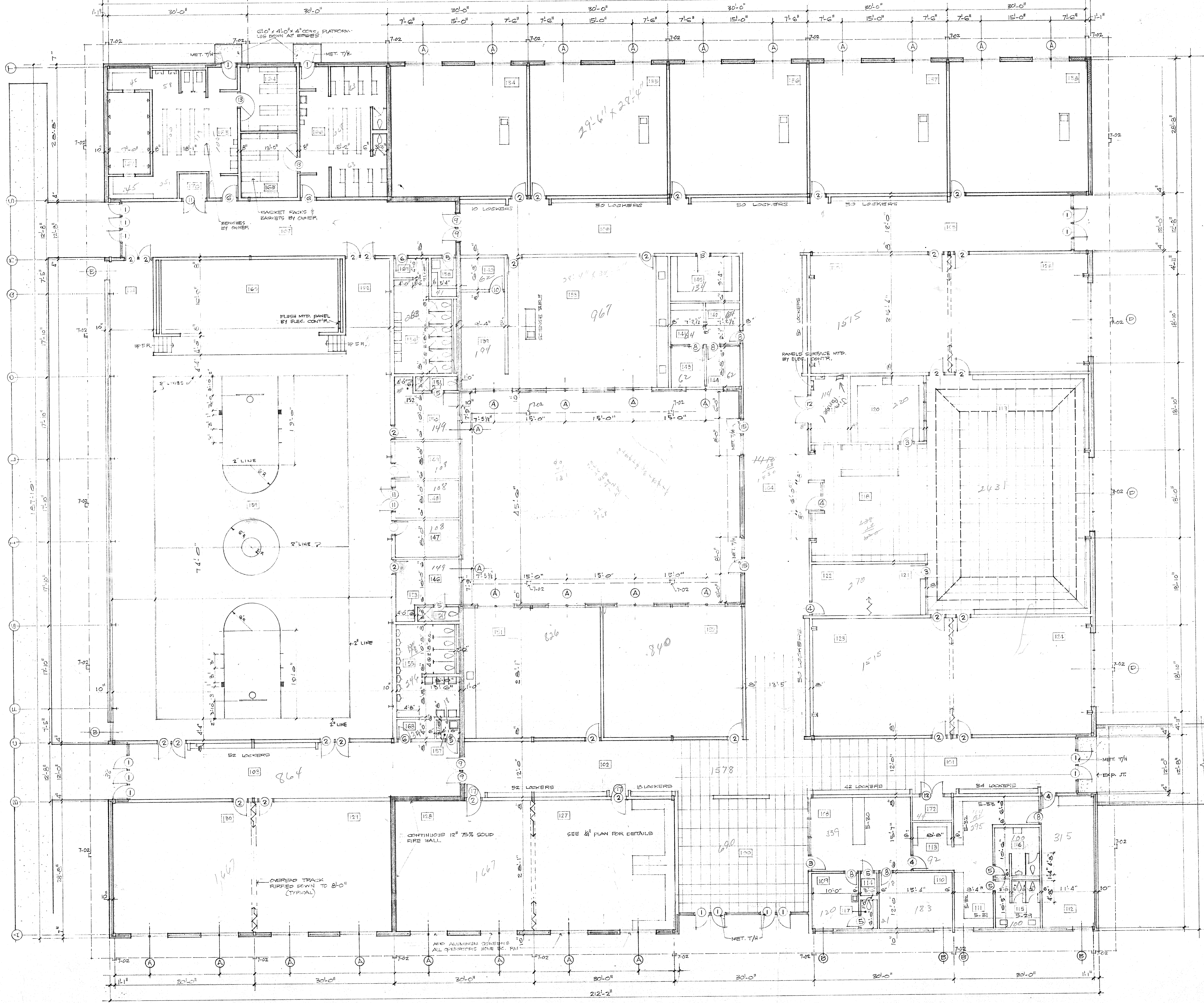
- DESIGNATED SHEET NO. ON WHICH DETAIL WILL BE FOUND
- DESIGNATES DETAIL NO. ON SHEET

BOUNDARY MAP SCALE 1" = 200'



SITE PLAN
SCALE 1" = 30'

FROM A SURVEY BY HERBERT ECKSTON, C.E.
DEC. 1, 1964
+21.0 ELEVATIONS AT TOP OF CURB



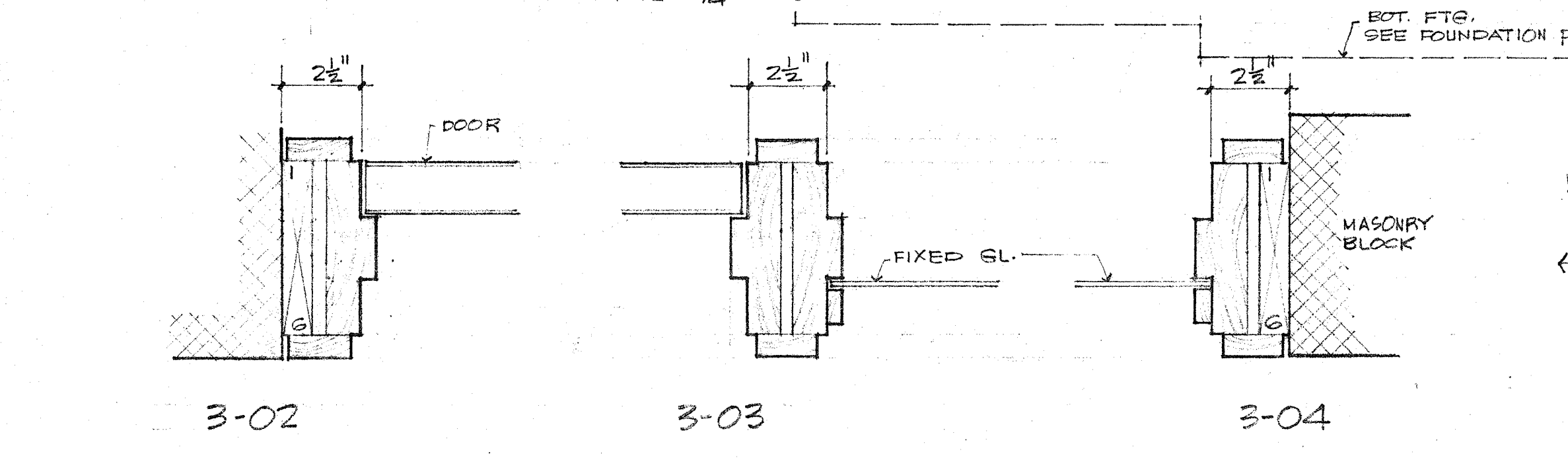
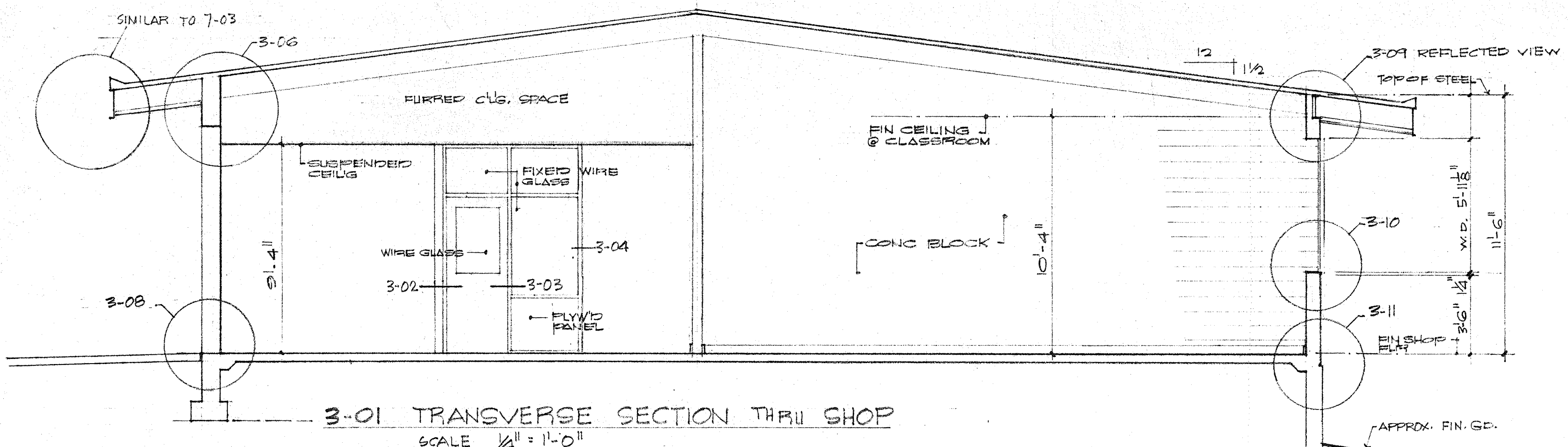
JOB NO. 6414
 DATE NOV 14, 1965
 DRAWN BY TJP, JWC

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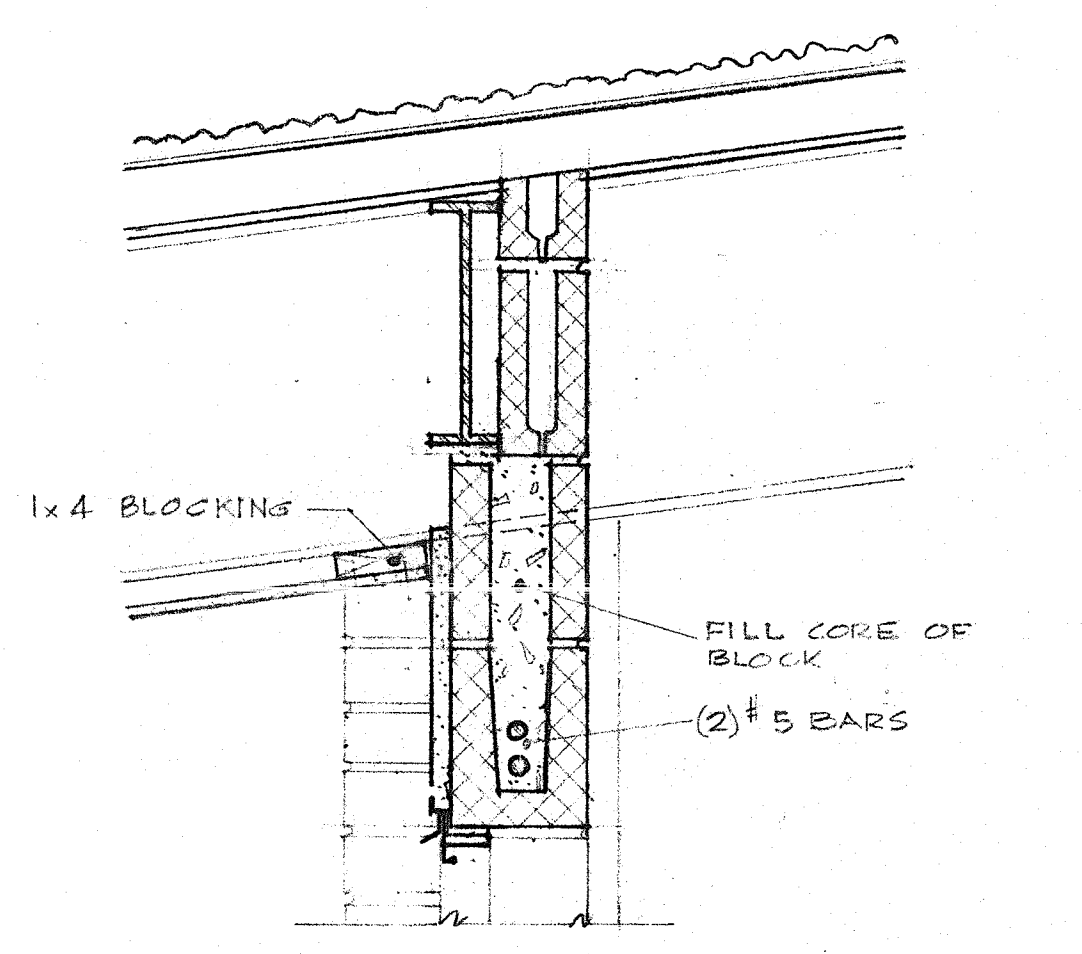
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FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
 JACKSONVILLE, NORTH CAROLINA

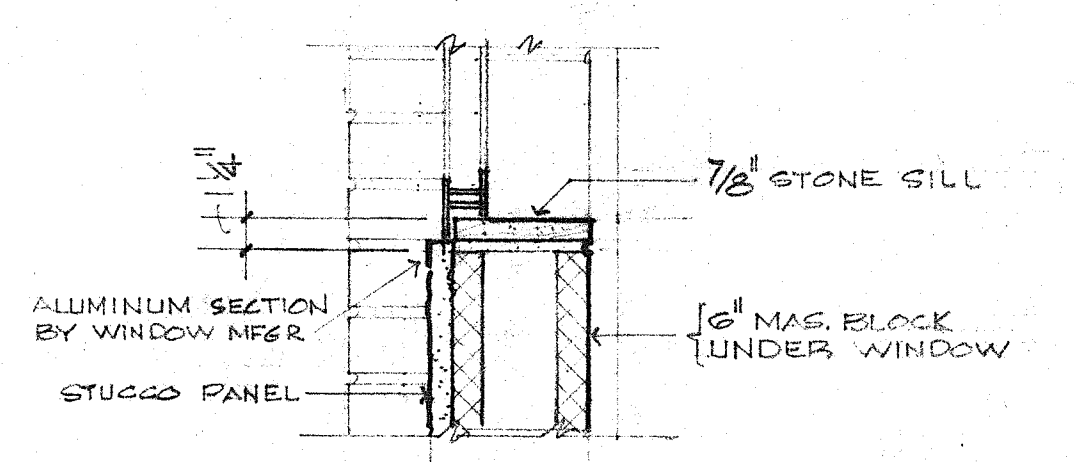
A-2



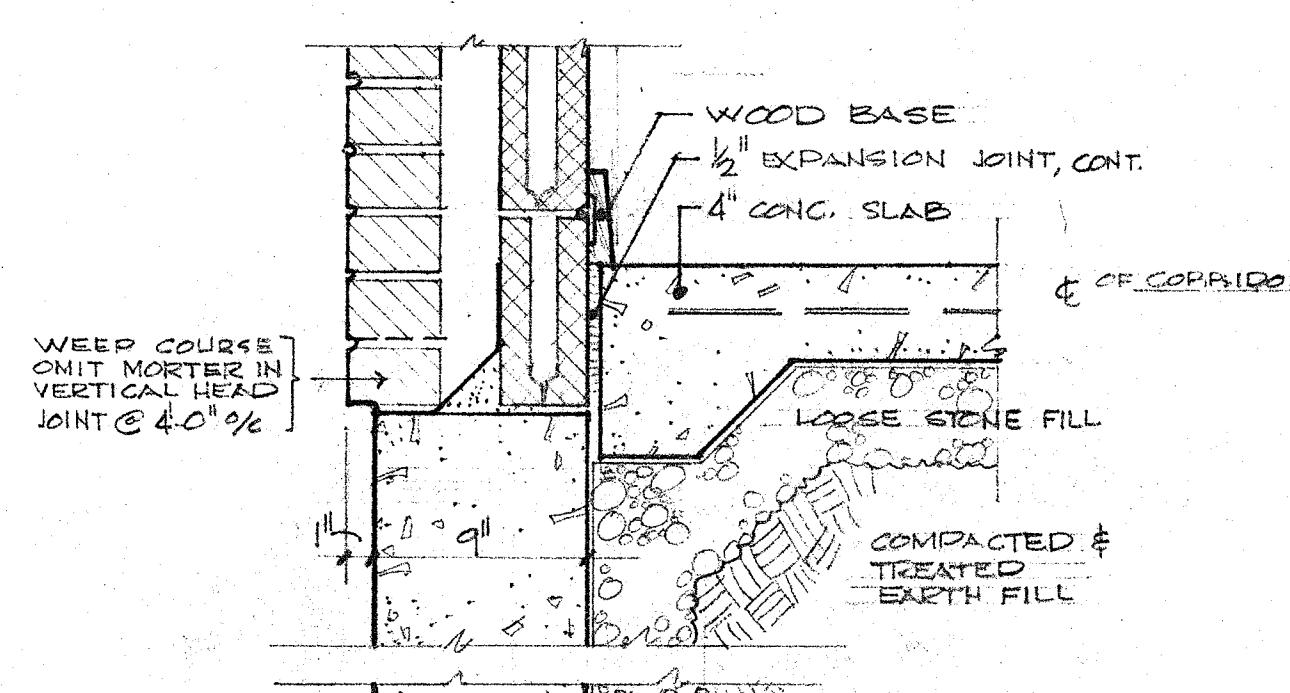
3-02 3-03 3-04
OFFICE PARTITION DETAILS
SCALE 3/8" = 1'-0"



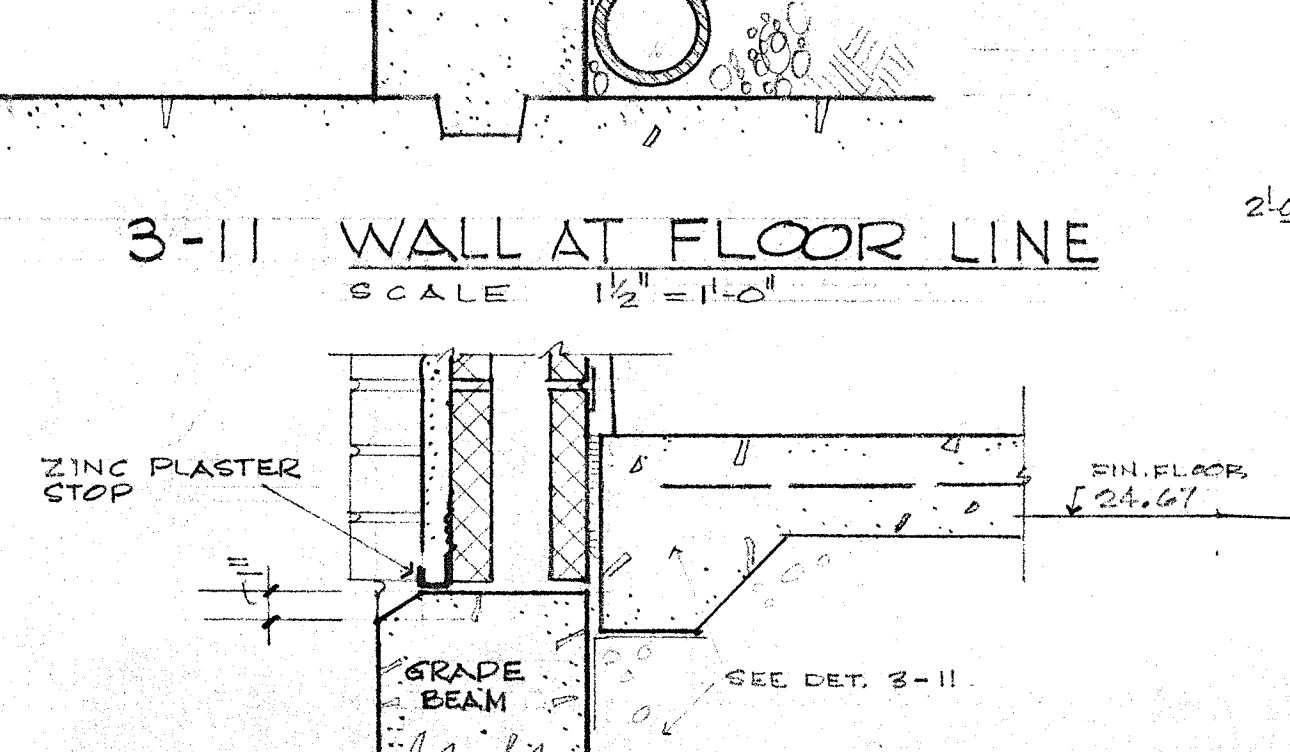
3-09 SHOP WINDOW HEAD
SCALE 1 1/2" = 1'-0"



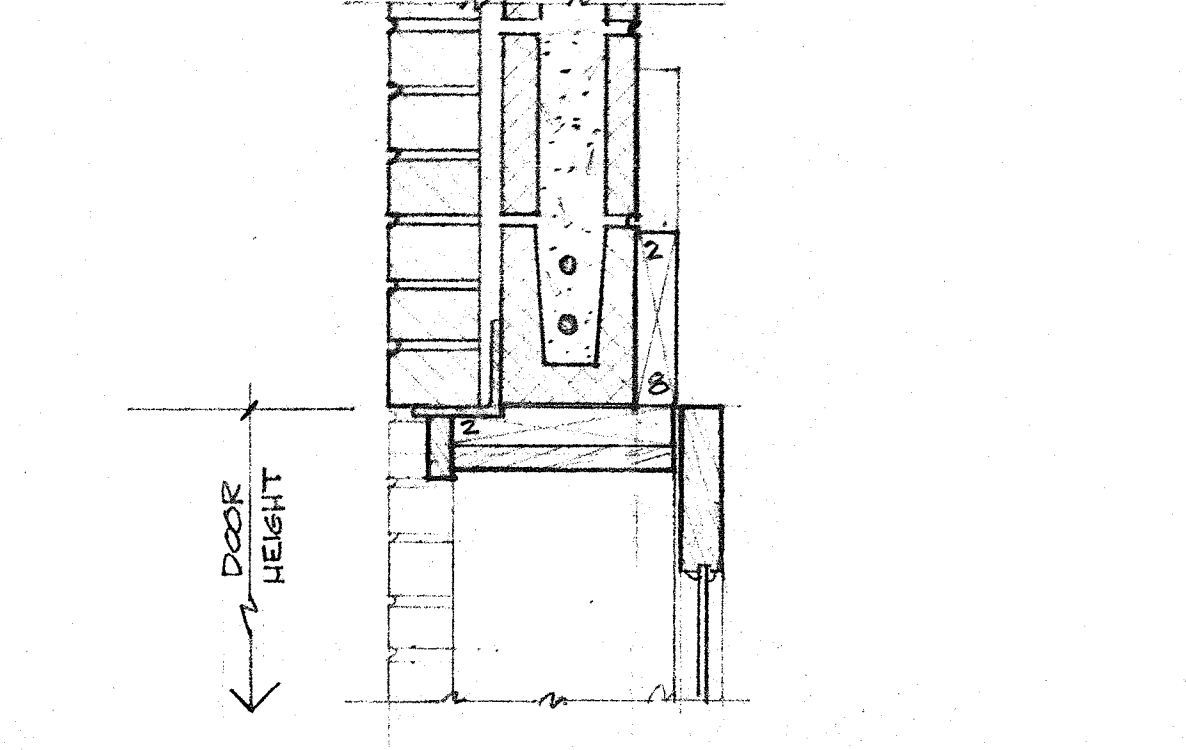
3-10 SHOP WINDOW SILL
SCALE 1 1/2" = 1'-0"



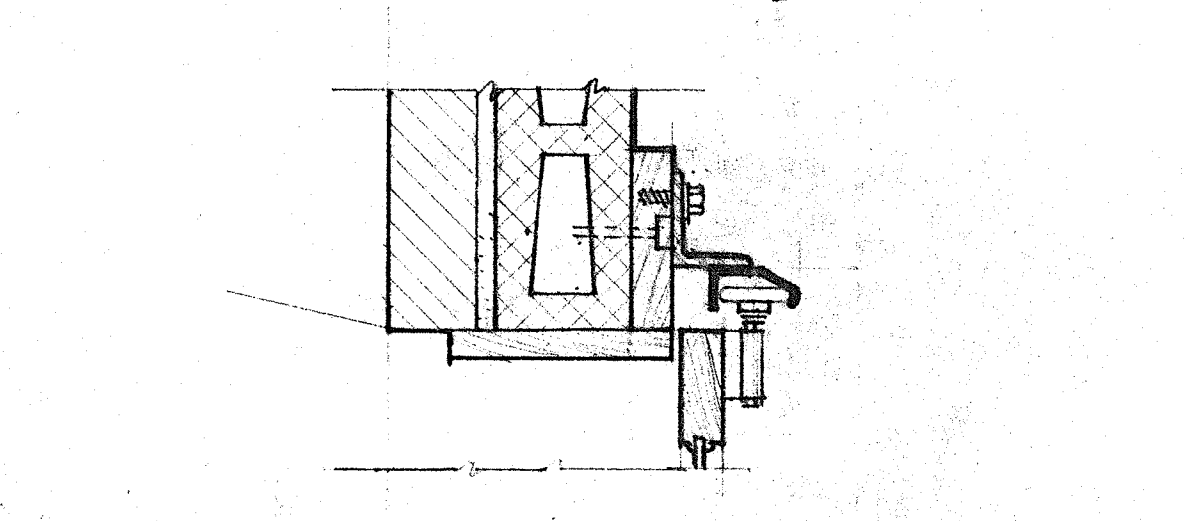
3-11 WALL AT FLOOR LINE
SCALE 1 1/2" = 1'-0"



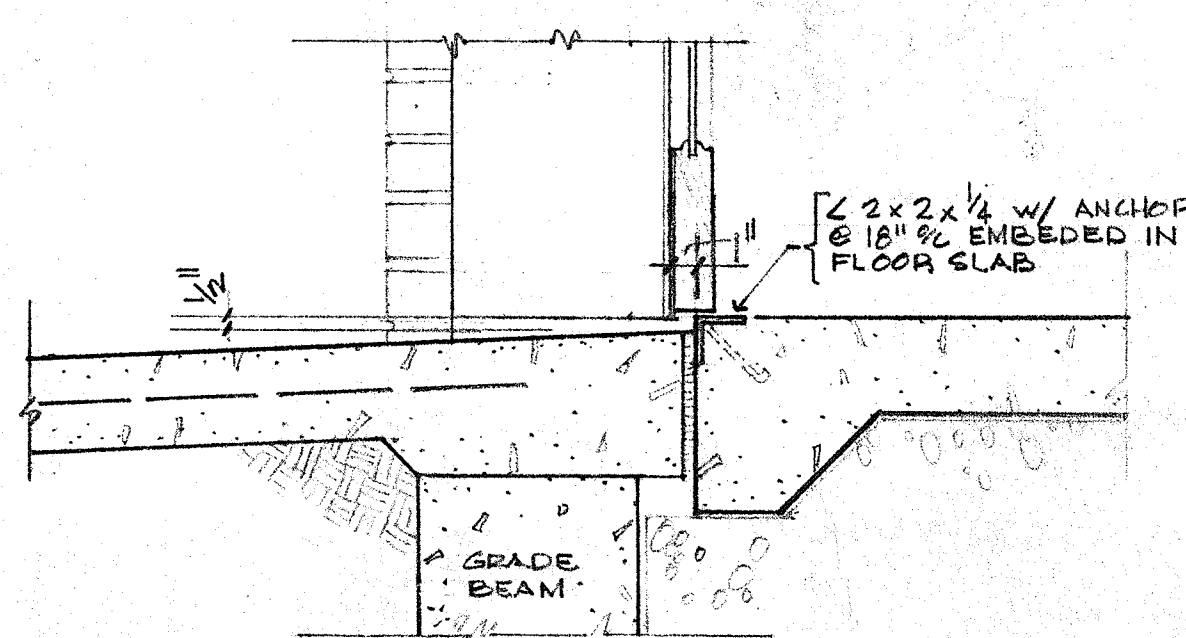
3-12 STUCCO PANEL AT FLOOR LINE
SCALE 1 1/2" = 1'-0"



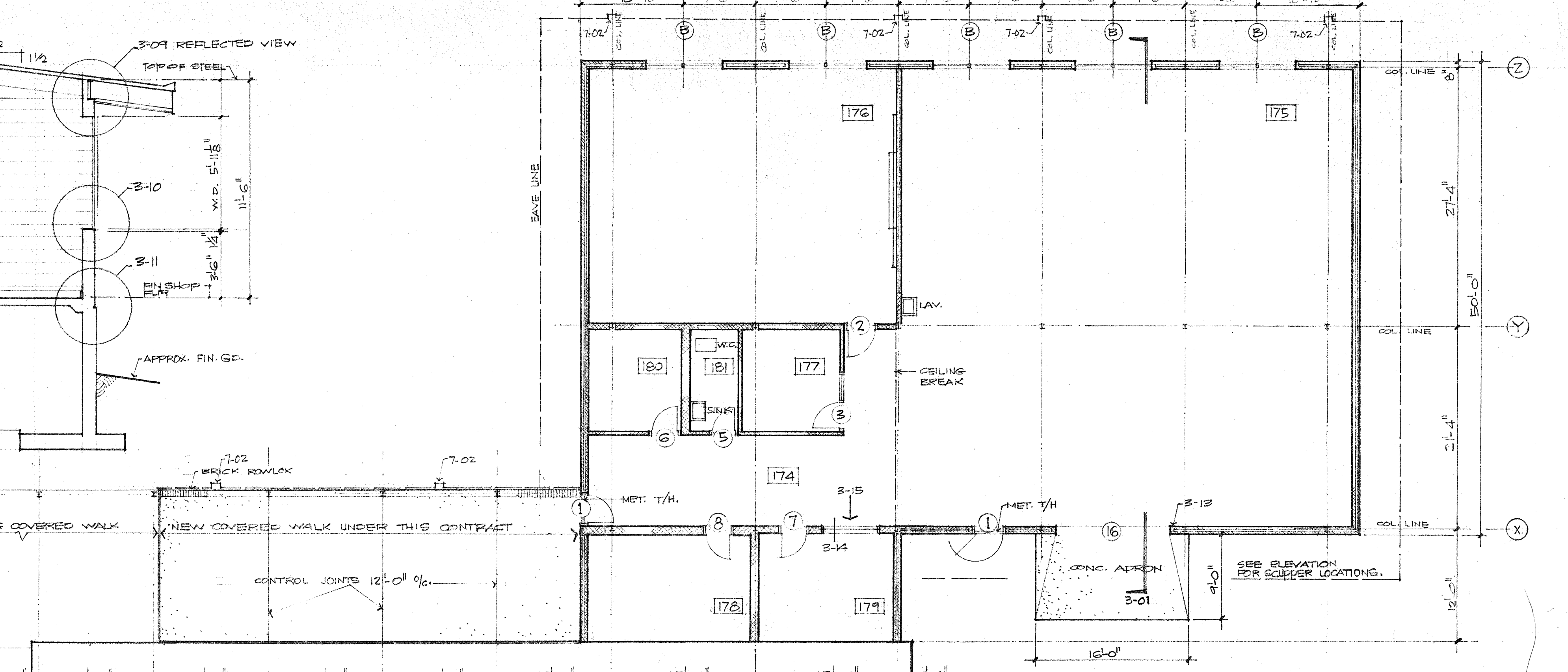
3-06 HEAD DETAIL
SCALE 1 1/2" = 1'-0"



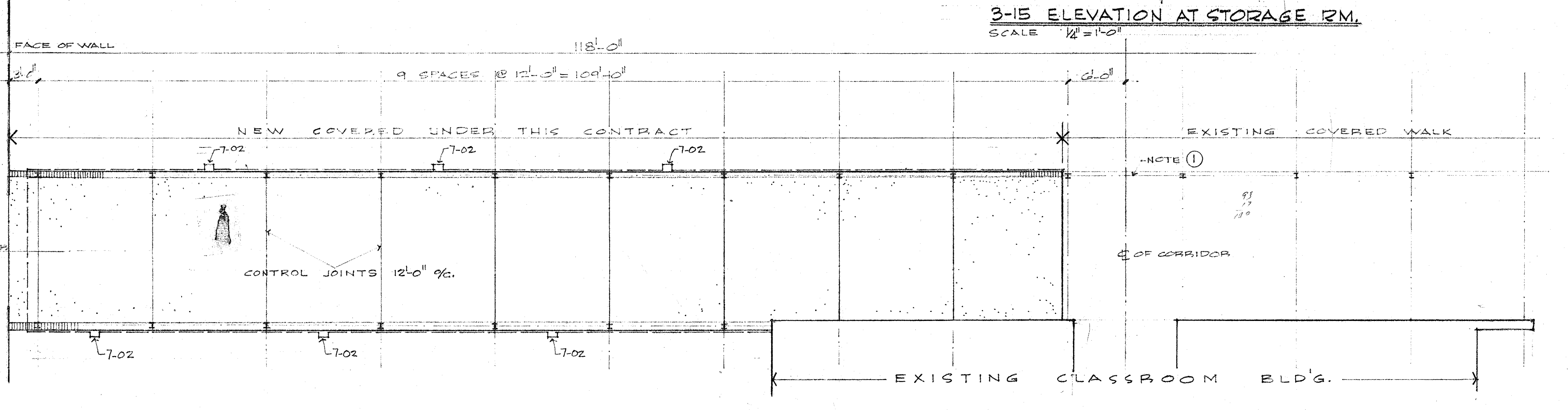
3-07 JAMB DETAIL
SCALE 1 1/2" = 1'-0"



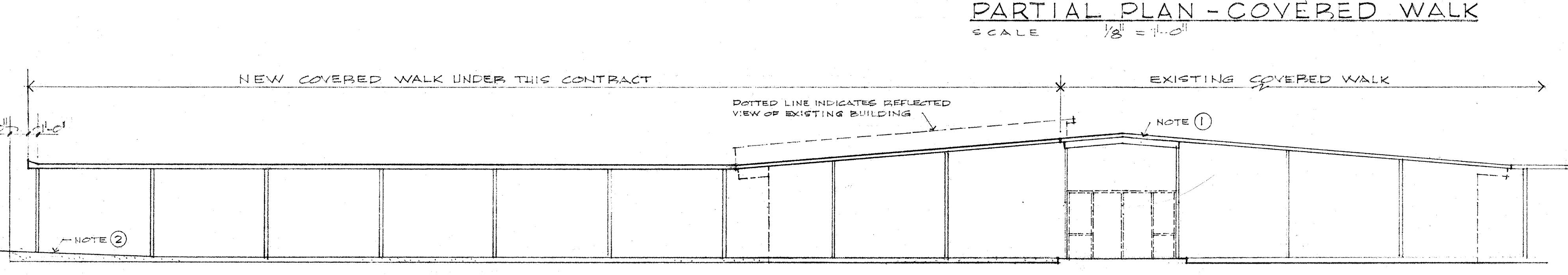
3-08 SILL DETAIL
SCALE 1 1/2" = 1'-0"



PLAN OF SHOP
SCALE 1/4" = 1'-0"



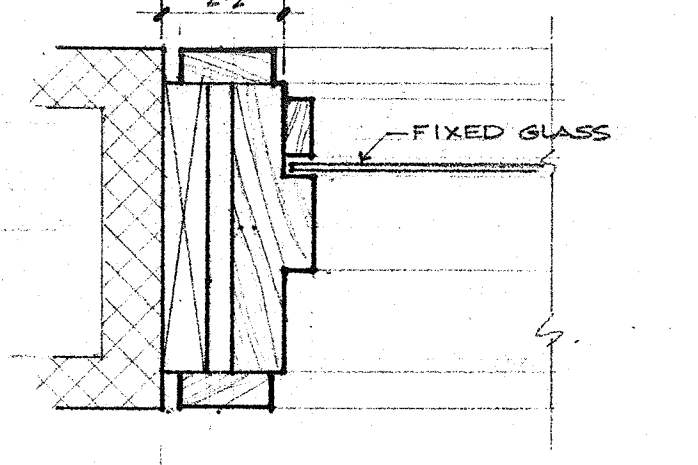
PARTIAL PLAN - COVERED WALK
SCALE 1/8" = 1'-0"



3-16 SECTION THRU COVERED WALK
SCALE 1/8" = 1'-0"

NOTE: ALL MEMBERS TO BE TREATED 2x8. GENERAL CONTR. TO FURNISH JAMB FOR OVERHEAD. SECURE W/ GRATED-ROD BOLTS W/ WASHERS, 1-4" 9/16" STAGGERED.

3-13 DETAIL OF WOOD JAMB FOR OVERHEAD DOORS
SCALE 1/4" = 1'-0"



3-14 TYPICAL HEAD JAMB & SILL DET.
SCALE 3/8" = 1'-0"

3-15 ELEVATION AT STORAGE RM.
SCALE 1/2" = 1'-0"

- NOTES
 ① REMOVE TEMPORARY BRACINGS AND INSTALL NEW FABRICATED ROLLED MEMBER. BULB TEES ARE SPICED AT RIDGE.
 ② RAMP UP SLAB TO ELEV. 24.27' FINISH FLOOR AT NEW BUILDING. ALL COVERED WALK GLASS ARE APPROX. 1" LOWER THAN FINISH FLOOR.

JOB NO. G 414
DATE NOV 14, 1965
DRAWN BY TJP JWC

THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA

ONslow COUNTY BOARD OF EDUCATION
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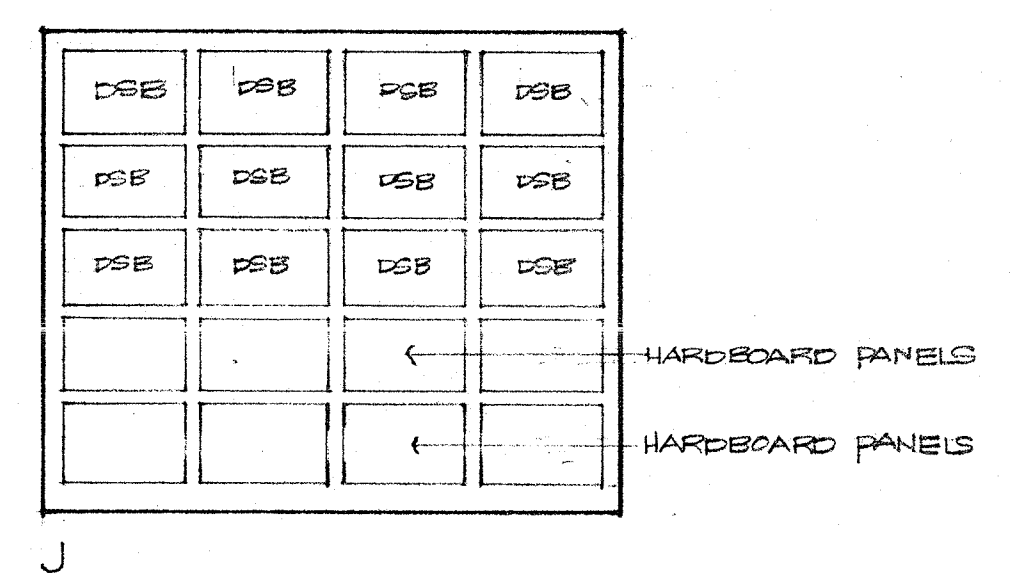
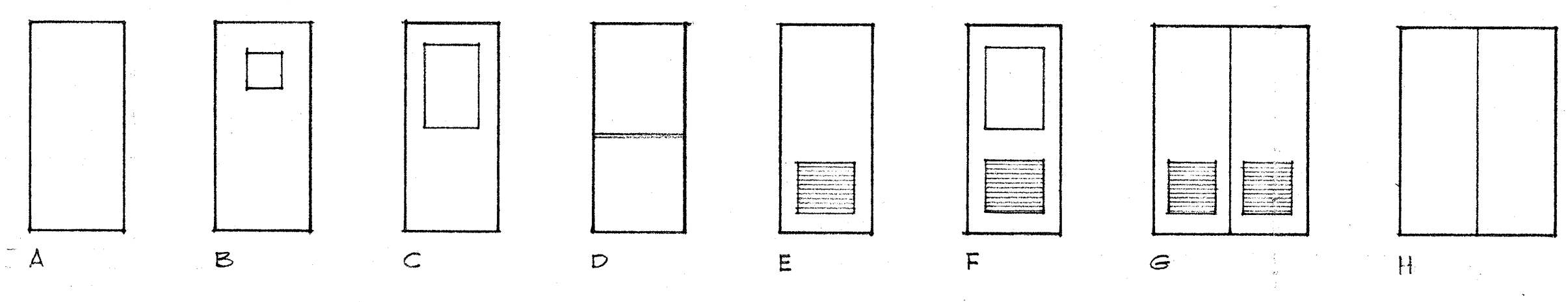
FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
JACKSONVILLE, NORTH CAROLINA

A-3

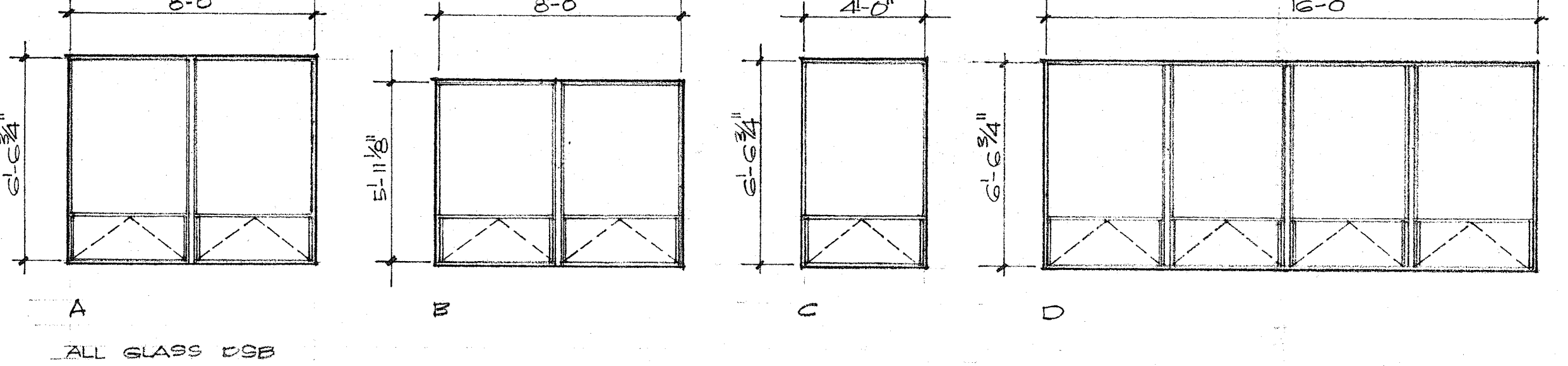
D O O R S C H E D U L E							
MARK	TYPE	SIZE	MATERIAL	DOOR FIN.	FRAME	FRAME FIN.	REMARKS
1	A	3-0 x 6-8 x 1 3/4	Flush metal	Painted	Metal	Painted	
2	B	3-0 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	Glaze w/DSB
3	C	2-8 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	Glaze w/DSB
4	C	2-8 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	Glaze w/figured glass
5	E	2-6 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	18" x 8" wood louver
6	E	2-8 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	20" x 12" wood louver
7	B	2-8 x 6-8 x 1 3/4	Flush metal	Painted	Metal	Painted	Fire Door
8	F	2-8 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	20" x 12" wood louver-glaze w/figured glass
9	B	2-8 x 6-8 x 1 3/4	Flush metal	Painted	Metal	Painted	Fire door-glaze w/wire gl.
10	E	2-6 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	18" x 8" light-proof louver
11	G	2-6 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	18" x 8" wood louver
12	H	2-6 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	
13	D	2-8 x 6-8 x 1 3/4	Flush wood solid core	Stained	Metal	Painted	Dutch door
14	B	2-8 x 6-8 x 1 3/4	Metal	Painted	Metal	Painted	Fire door
15	C	3-0 x 6-8 x 1 3/4	Flush wood solid core	Painted	Metal	Painted	
16	J	12-0 x 10-0 x 1 3/4	Wood overhead	Painted	Wood	Painted	

I N T E R I O R F I N I S H S C H E D U L E												
AREA	FIN. FLOOR	BASE	BASE FIN.	WALLS	WALL FINISH	CEILING	CEILING FIN.	CIG. HEIGHT	REMARKS			
100	Lobby	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	10-6			
101	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
102	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
103	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
104	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
105	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
106	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
107	Corridor	terrazzo	wood	painted	masonry block	plastic finish	suspended tiles	factory	9-4			
108	General Office	terrazzo	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
109	Health Room	terrazzo	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
110	Principal's Office	carpet	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
111	Work Room	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
112	Teacher's Lounge	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
113	Central Store Rm.	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
114	Closet	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
115	Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
116	Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
117	Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
118	Library Entry	carpet	wood	painted	masonry block	painted	suspended tiles	factory				
119	Reading Room	carpet	wood	painted	masonry block	painted	suspended tiles	factory	14-8 varies			
120	Office/Work Room	carpet	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
121	Conference Room	carpet	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
122	Conference Room	carpet	wood	painted	masonry block	painted	suspended tiles	factory	9-4			
123	Classroom	terrazzo	wood	painted	masonry block	painted	suspended tiles	factory	10-6			
124	Classroom	terrazzo	wood	painted	masonry block	painted	suspended tiles	factory	10-6			
125	Classroom	terrazzo	wood	painted	masonry block	painted	suspended tiles	factory	10-6			
126	Classroom	terrazzo	wood	painted	masonry block	painted	suspended tiles	factory	10-6			
127	Home Economics C.R.	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
128	Home Economics C.R.	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
129	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
130	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
131	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
132	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
133	Science Room	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
134	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
135	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
136	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
137	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
138	Classroom	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
139	Science Work Rm.	terrazzo	wood	painted	masonry block	painted	exposed deck	painted	varies			
140	Darkroom	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
141	Conference Room	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	8-8			
142	Conference Room	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	8-8			
143	Conference Room	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	8-8			
144	Conference Room	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	8-8			
145	Student Supply Rm.	resilient tile	wood	painted	masonry block	painted	suspended tiles	factory	8-8			
146	Coch's Office	quarry tile	quarry tile	factory	masonry block	painted	suspended tiles	factory	8-8			
147	Athletic Storage	treated concrete	wood	painted	masonry block	none	suspended tiles	factory	8-8			
148	Chair Storage	treated concrete	wood	painted	masonry block	none	suspended tiles	factory	8-8			
149	Athletic Storage	treated concrete	wood	painted	masonry block	none	suspended tiles	factory	8-8			
150	Coch's Office	quarry tile	quarry tile	factory	masonry block	painted	suspended tiles	factory	8-8			
151	Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
152	Lavatory	quarry tile	quarry tile	factory	masonry block	painted	suspended tiles	factory	8-8			
153	Lavatory	quarry tile	quarry tile	factory	masonry block	painted	suspended tiles	factory	8-8			
154	Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
155	Boy's Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
156	Girl's Toilet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
157	Janitor's Closet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
158	Janitor's Closet	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	8-8			
159	Multipurpose Rm.	hardwood	wood	natural	masonry block	painted	exposed deck	painted	varies			
160	Platform	hardwood	wood	natural	masonry block	painted	suspended tiles	factory	varies see details			
161	Entry	hardwood	wood	natural	masonry block	painted	suspended tiles	factory	9-4			
162	Entry	hardwood	wood	natural	masonry block	painted	suspended tiles	factory	9-4			
163	Basket Room	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
164	Basket Room	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
165	Boy's Dressing Rm.	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
166	Girl's Dressing Rm.	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
167	Boy's Shower Rm.	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
168	Vestibule	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
169	Vestibule	quarry tile	quarry tile	factory	masonry block	plastic finish	suspended tiles	factory	9-4			
170	Mechanical Rm.	treated concrete	none		masonry block	none	exposed deck	painted	varies			
171	Mechanical Rm.	treated concrete	none		masonry block	none	exposed deck	painted	varies			
172	Mechanical Rm.	treated concrete	none		masonry block	none	exposed deck	painted	varies			
174	Entry	treated concrete	wood	painted	masonry block	plastic finish	suspended tiles	factory	10-6			
175	Industrial Arts Shop	treated concrete	wood	painted	masonry block	painted	exposed deck	painted	varies			
176	Industrial Arts C.R.	treated concrete	wood	painted	masonry block	painted	exposed deck	painted	varies			
177	Office	treated concrete	wood	painted	masonry block	painted	suspended tiles	factory	8-8			
178	Project Storage	treated concrete	wood	painted	masonry block	plastic finish	suspended tiles	factory	8-8			
179	Storage room	treated concrete	wood	painted	masonry block	plastic finish	suspended tiles	factory	8-8			
180	Supply Rm.	treated concrete	wood	painted	masonry block	plastic finish	suspended tiles	factory	8-8			
181	Toilet	treated concrete	wood	painted	masonry block	plastic finish	suspended tiles	factory	8-8			

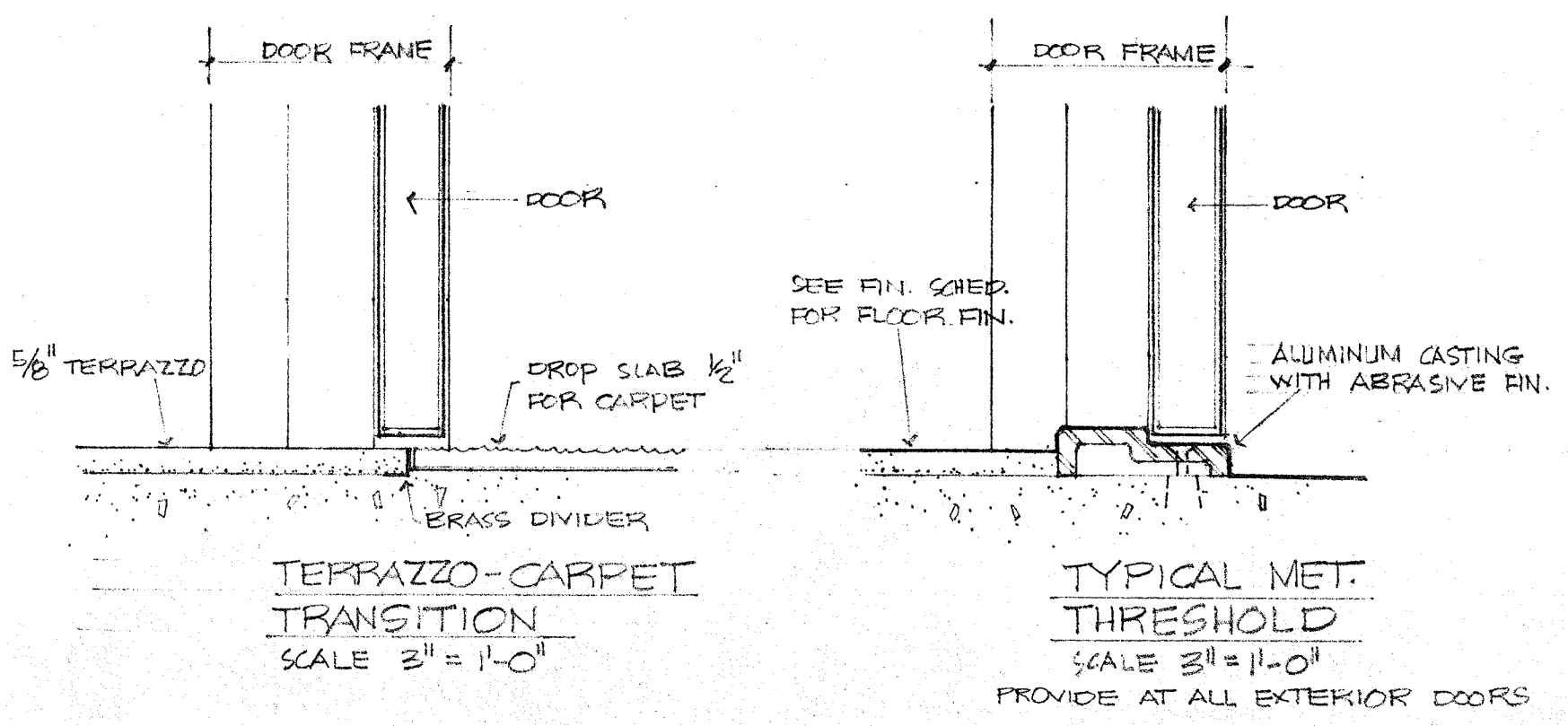
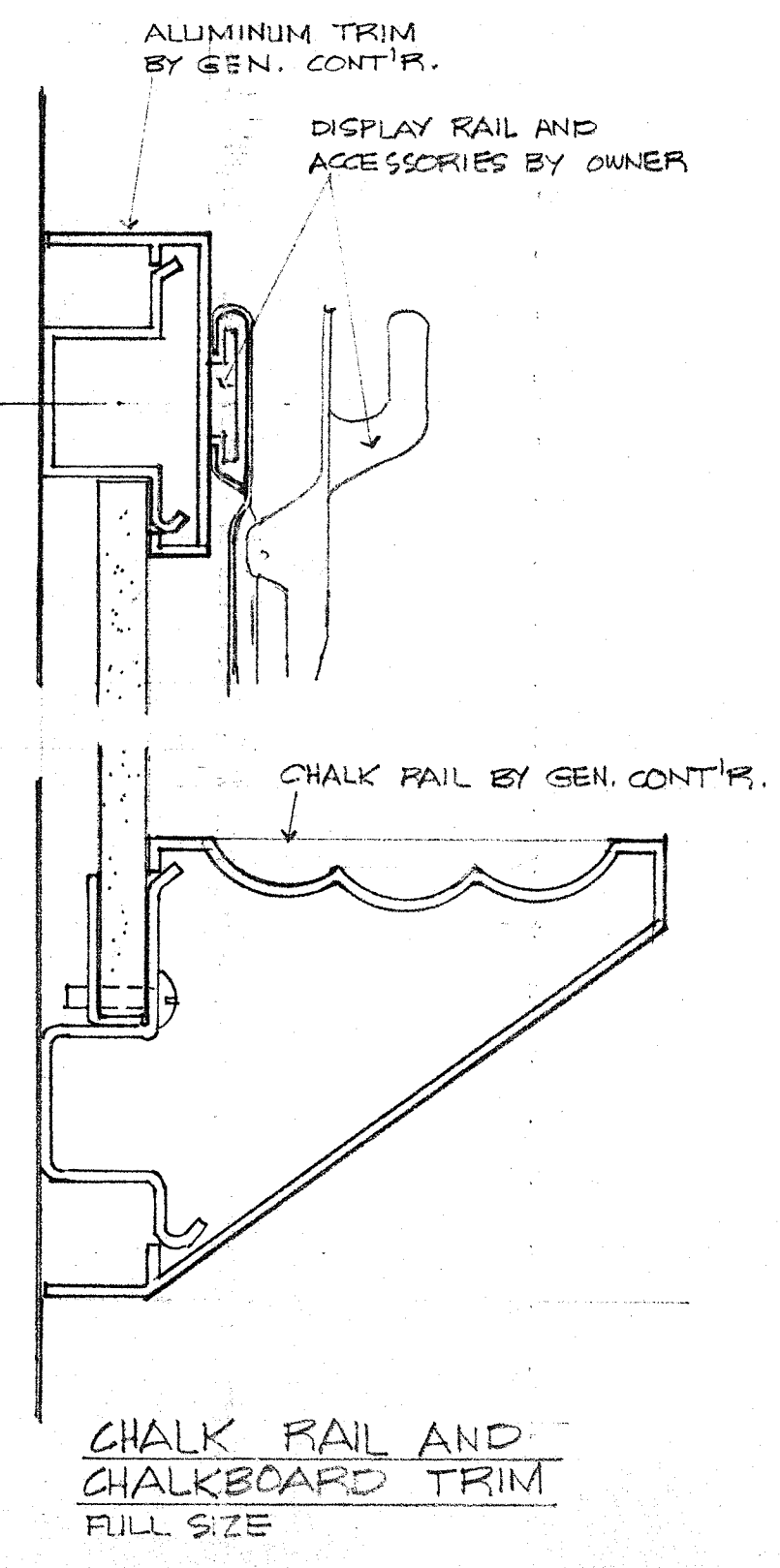
DOOR TYPES NO SCALE



WINDOW SCHEDULE NO SCALE



ALL GLASS DSB

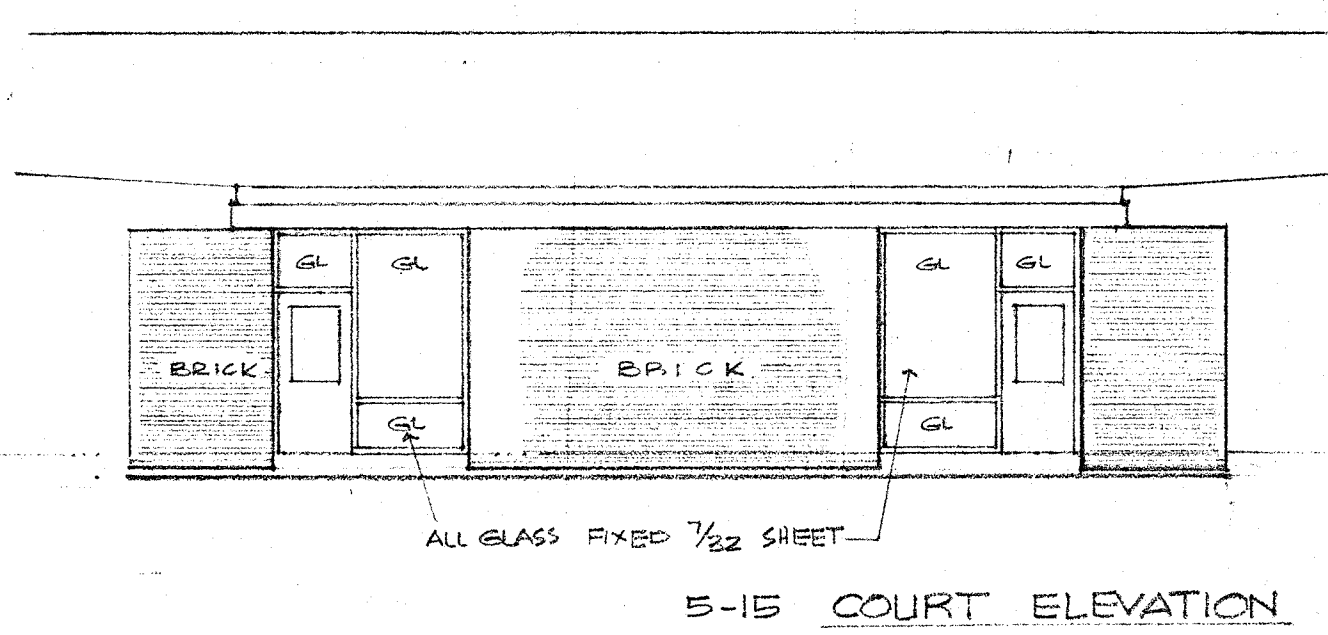


JOB NO. G414
DATE NOV 14, 1965
DRAWN BY TJP, JWC

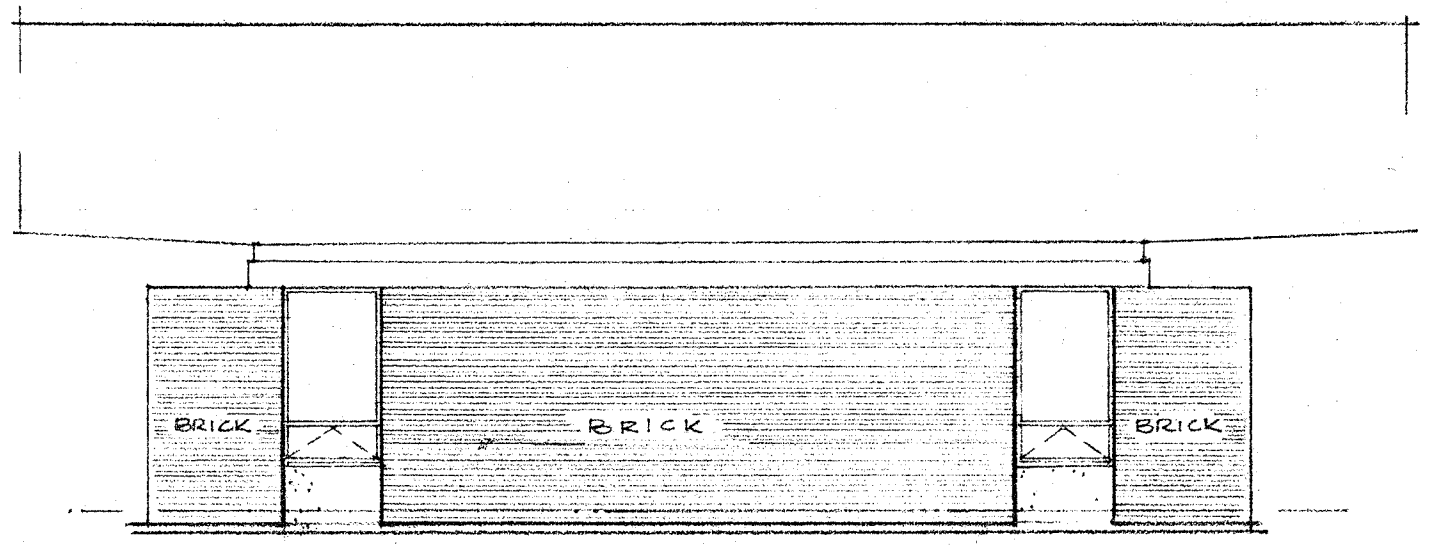
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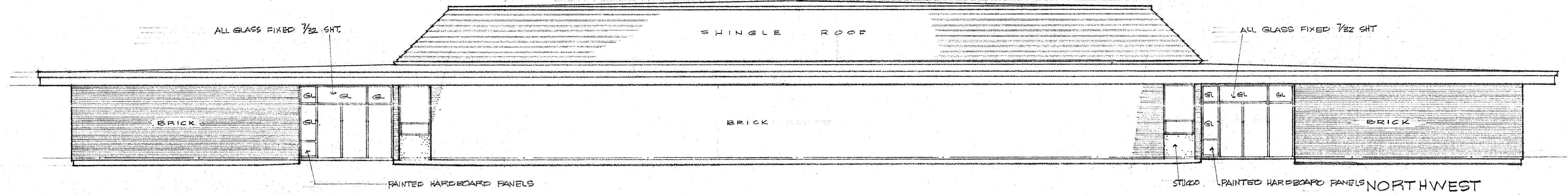
FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
JACKSONVILLE, NORTH CAROLINA



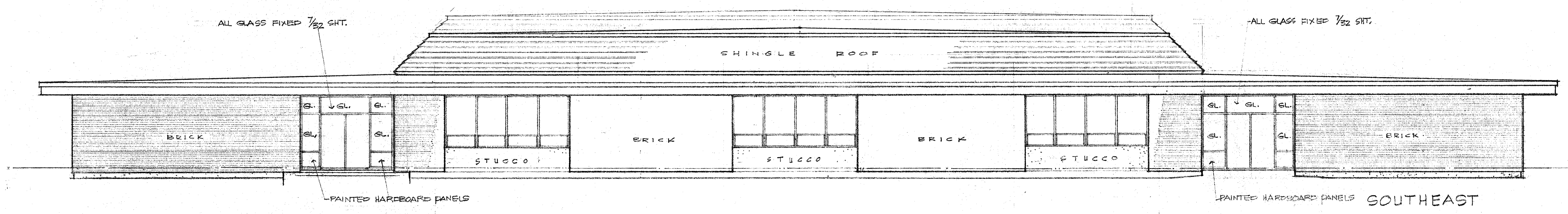
5-15 COURT ELEVATION



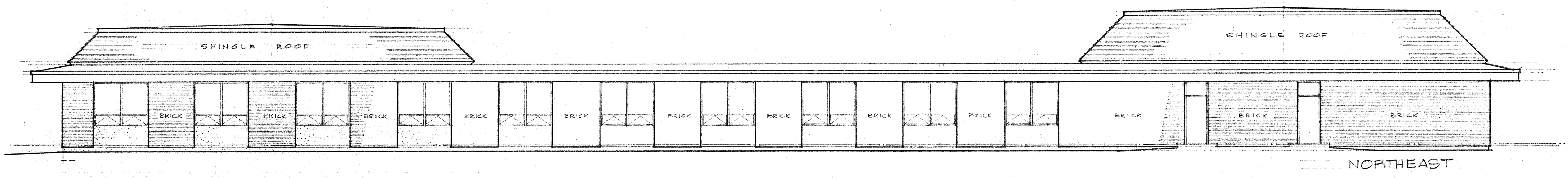
5-16 COURT ELEVATION



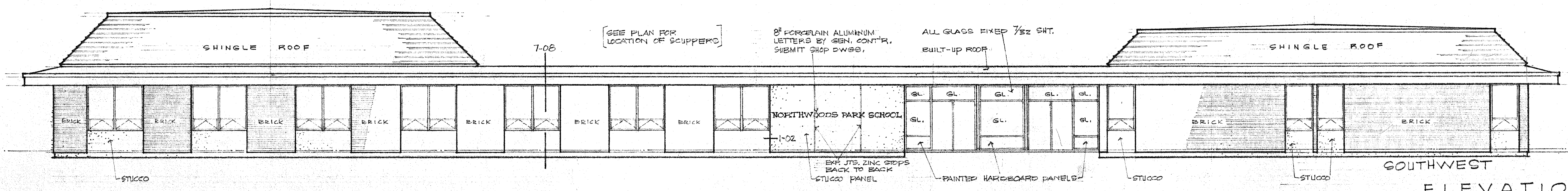
NORTHWEST



SOUTHEAST



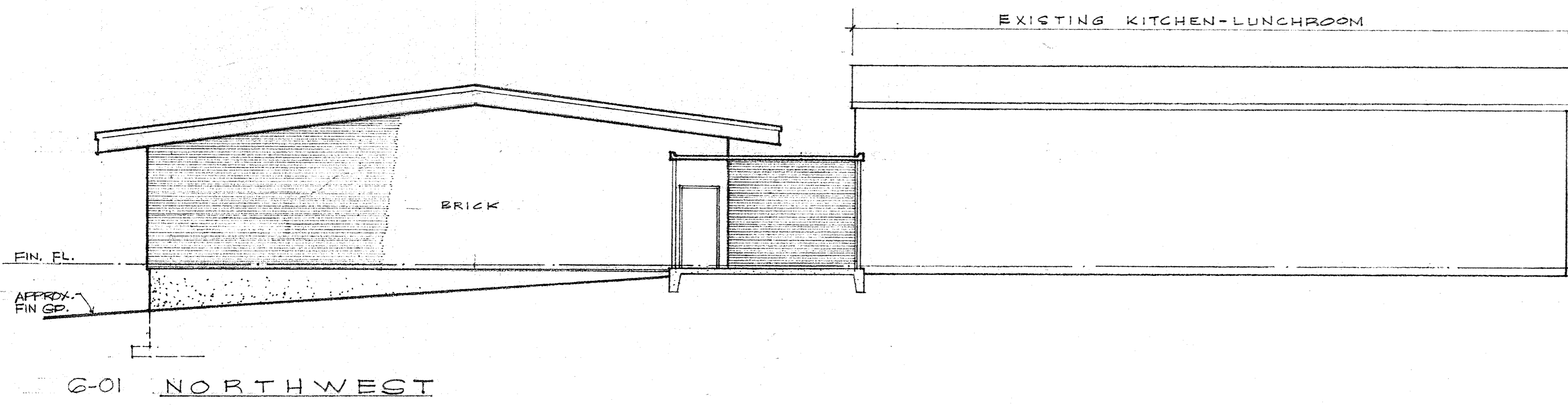
NORTHEAST



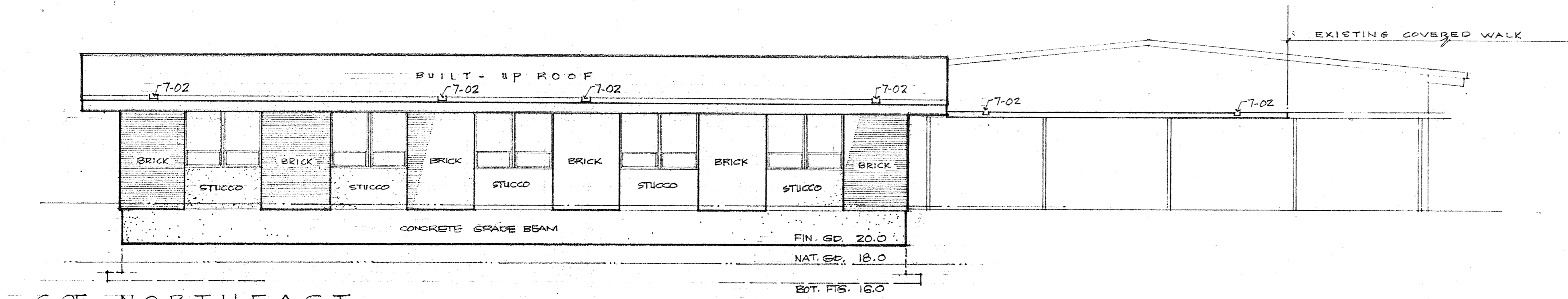
SOUTHWEST

ELEVATIONS

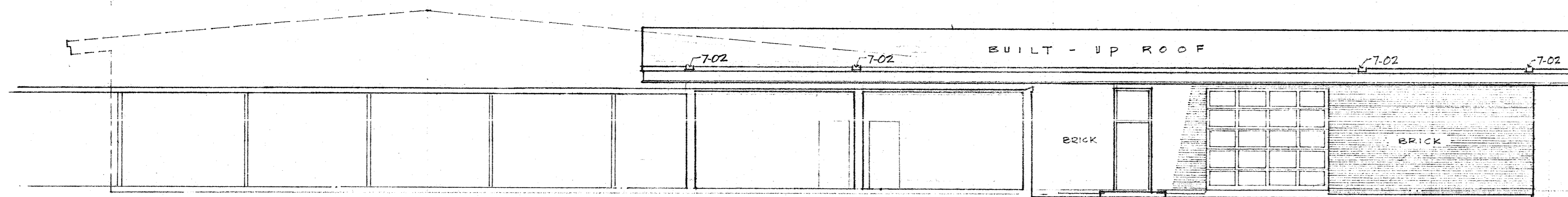
SCALE 1/8" = 1'-0"



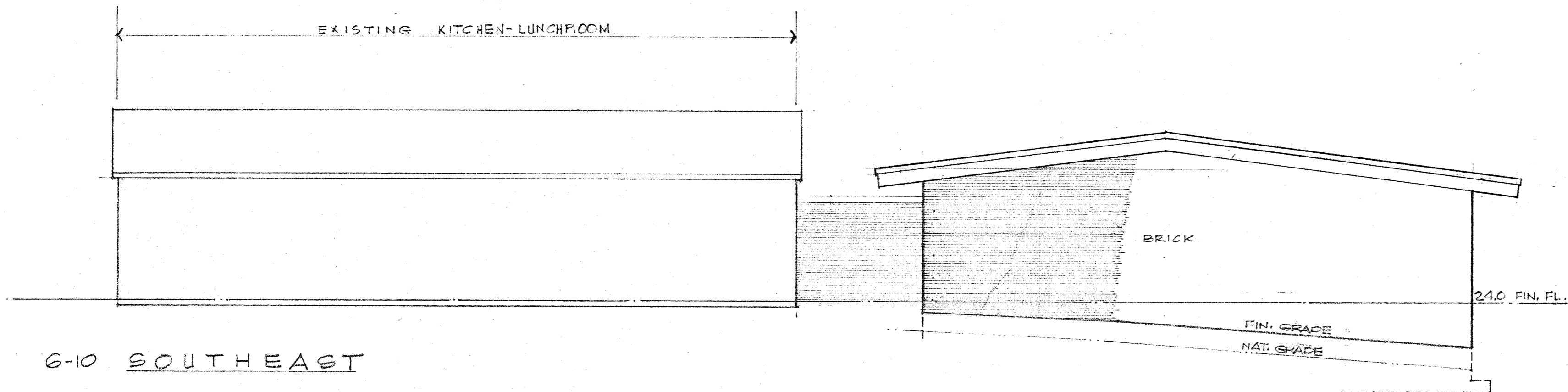
G-01 NORTHWEST



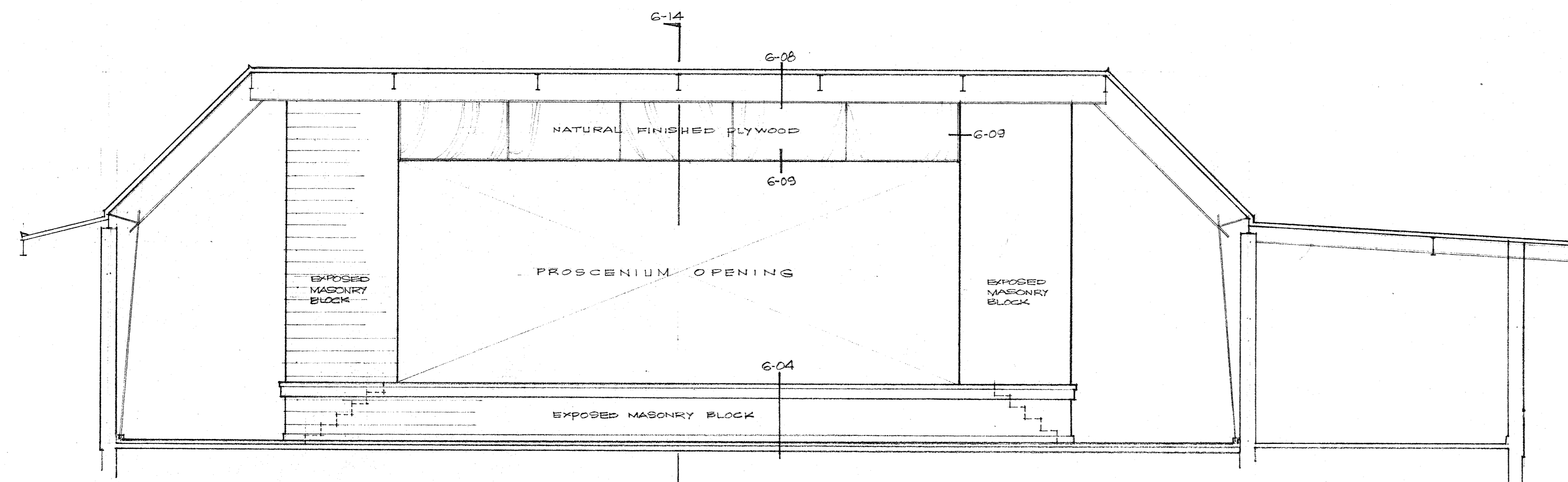
G-05 NORTHEAST



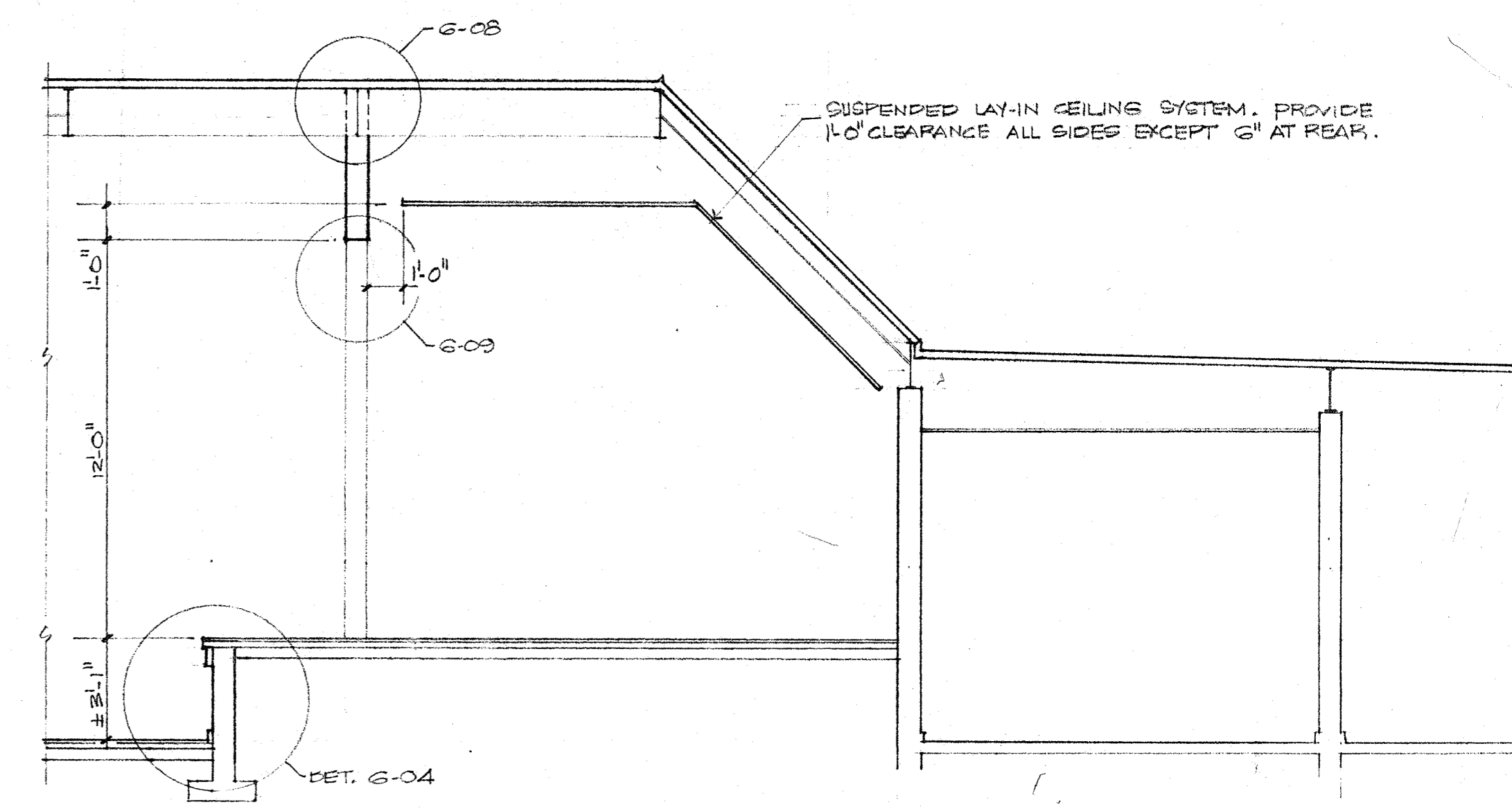
G-06 SOUTHWEST



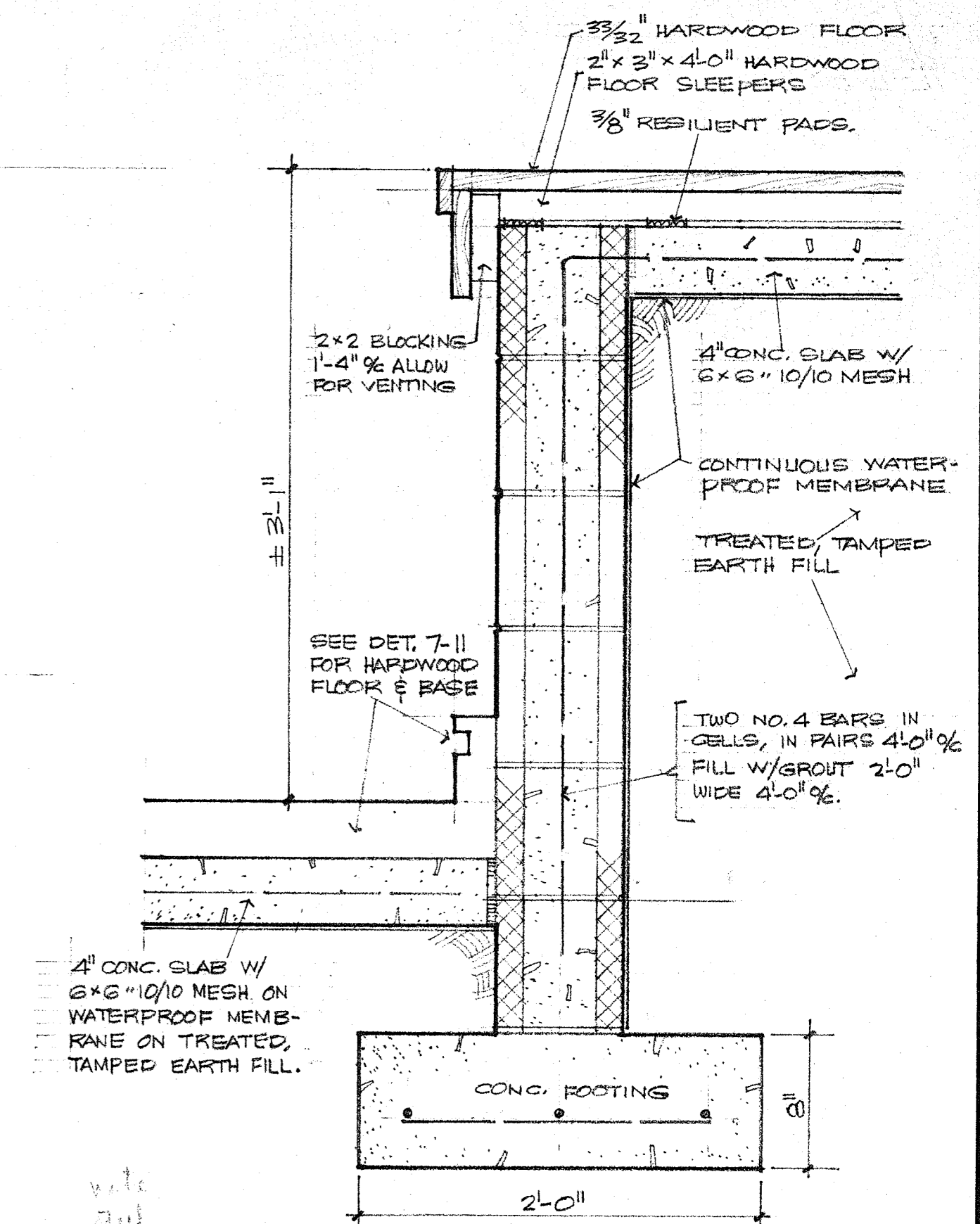
G-10 SOUTHEAST



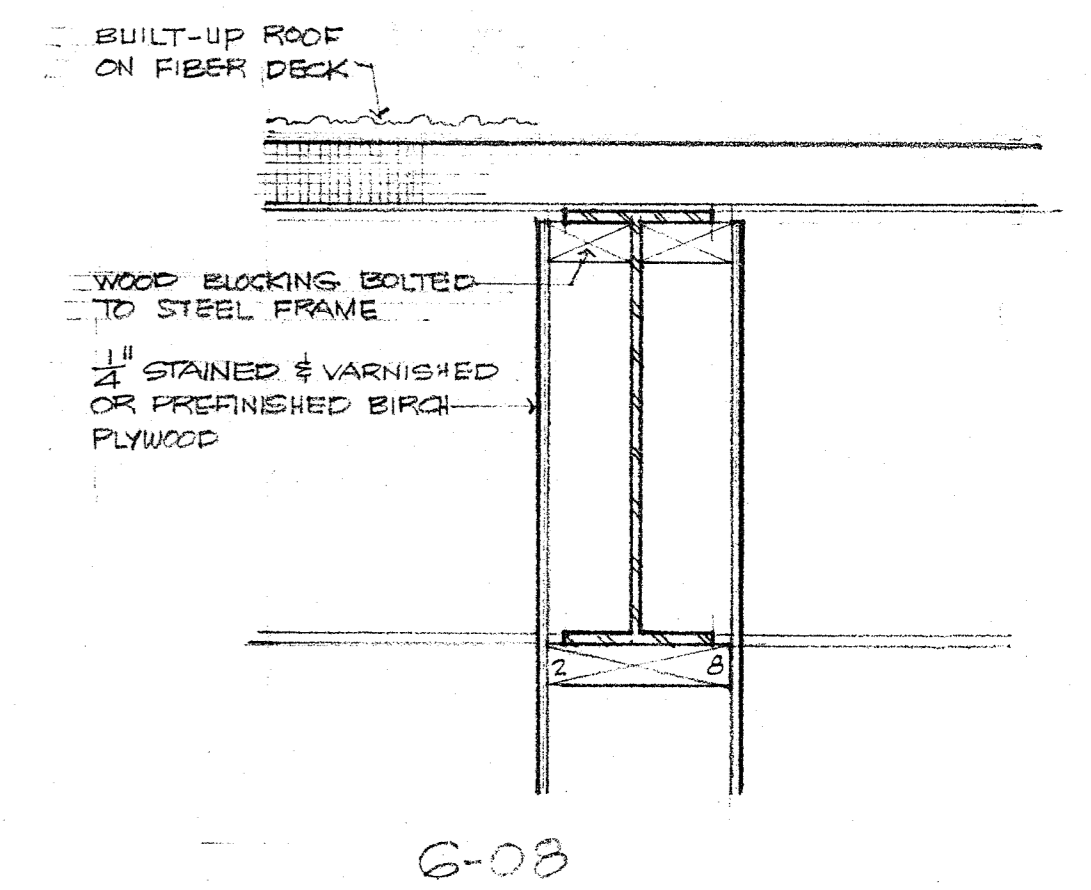
G-13 TRANSVERSE SECTION THRU MULTI-PURPOSE ROOM
SCALE 1/4" = 1'-0"



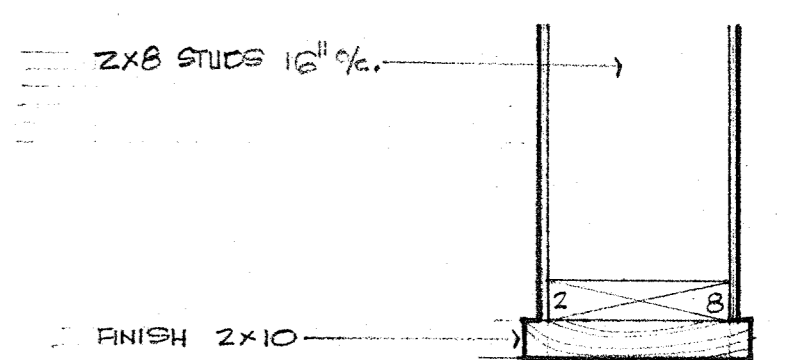
G-14 LONGITUDINAL SECTION THRU MULTI-PURPOSE ROOM
SCALE 1/4" = 1'-0"



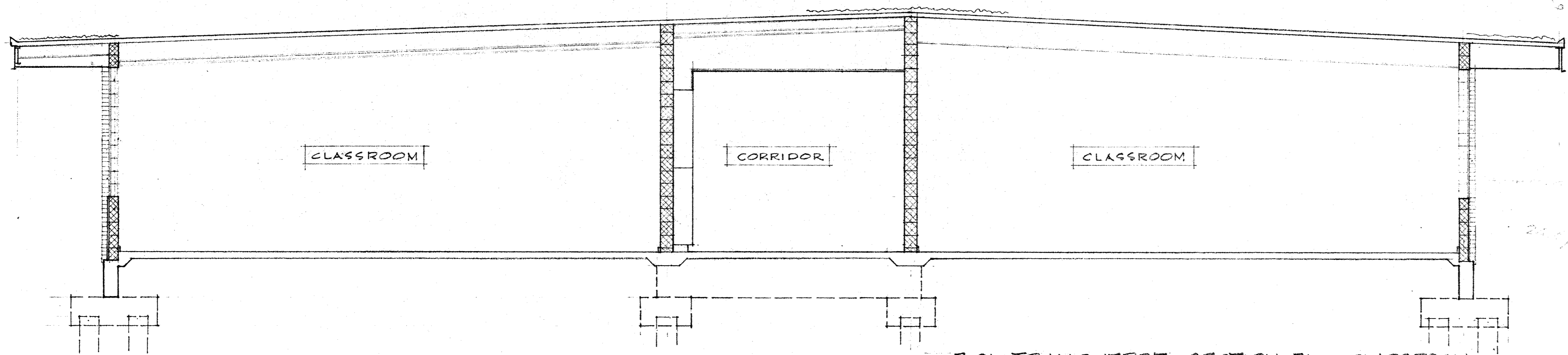
G-04 PLATFORM FRONT WALL
SCALE 1 1/2" = 1'-0"



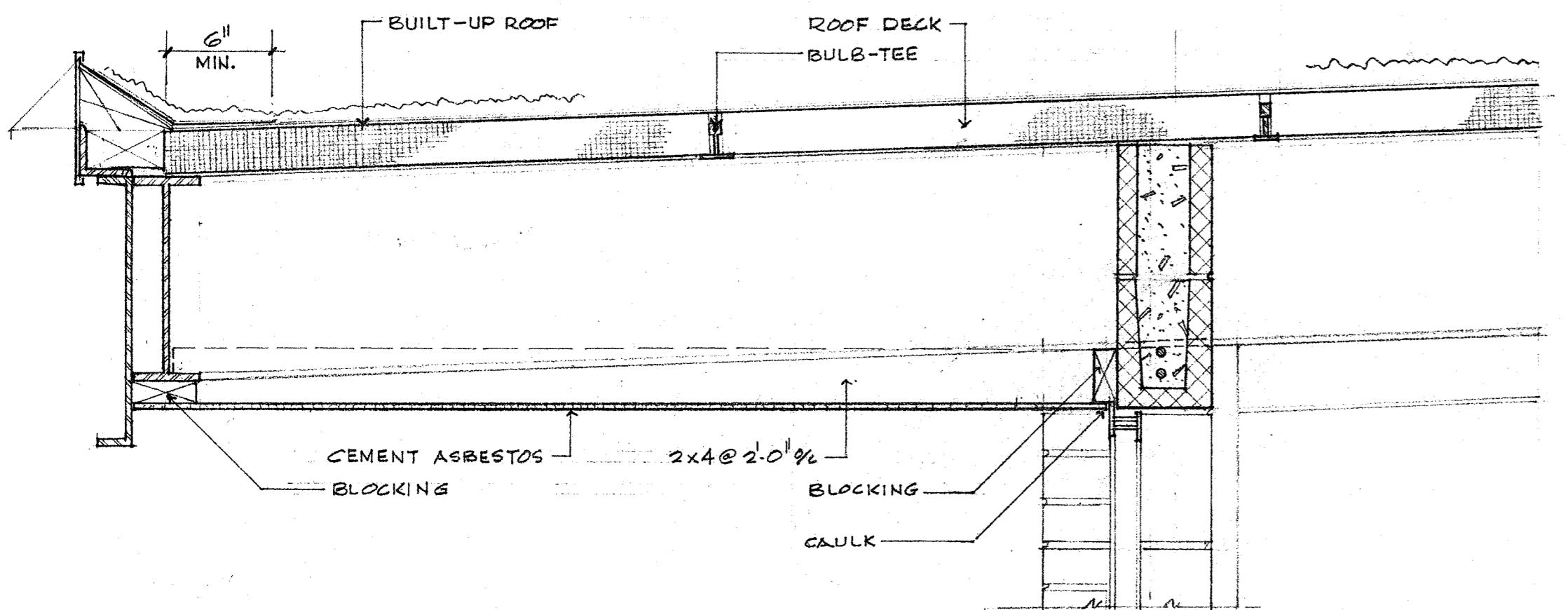
G-08



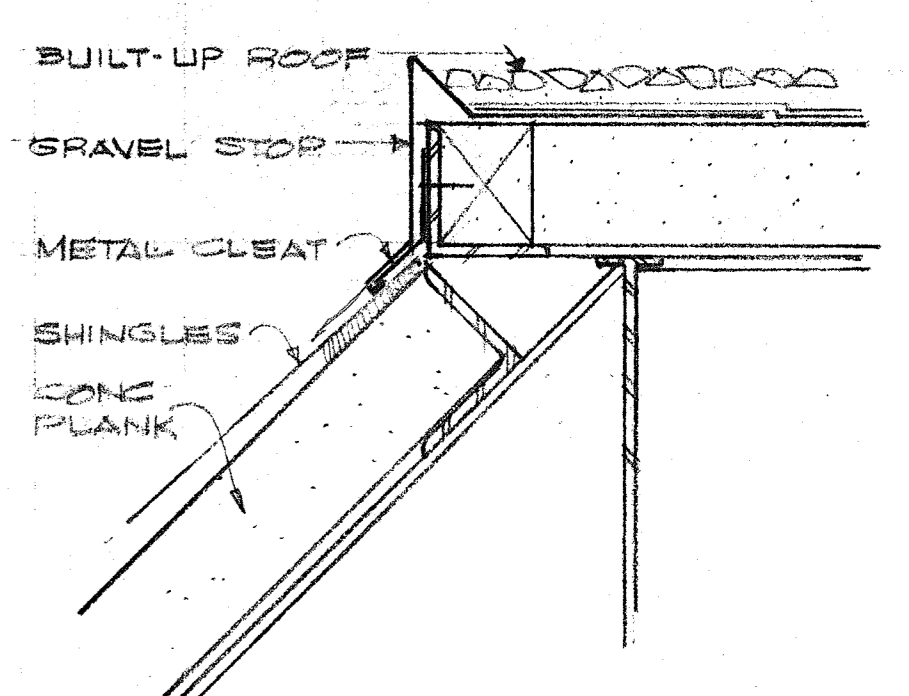
G-09 PROSCENIUM
SCALE 1 1/2" = 1'-0"



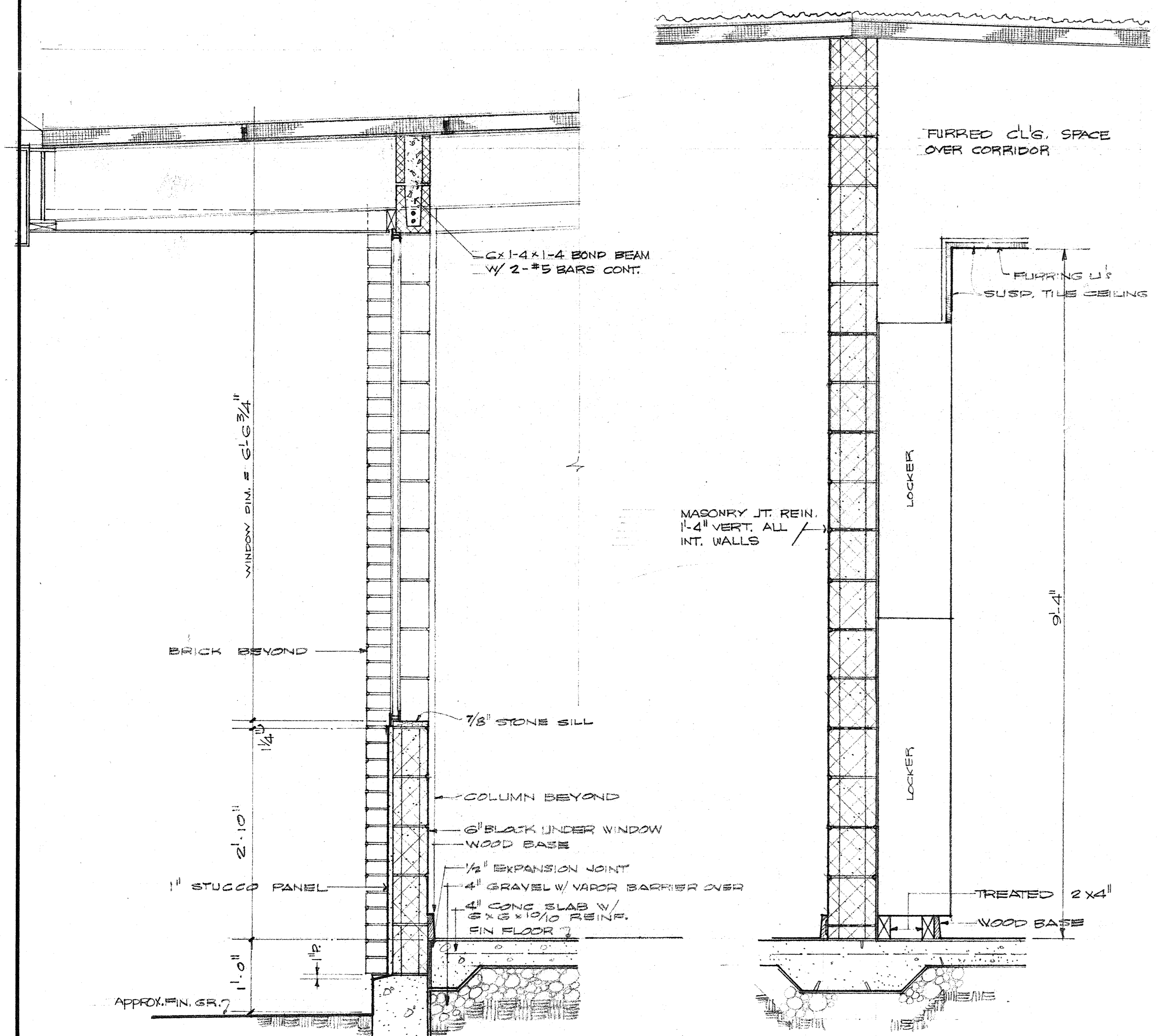
7-01 TRANSVERSE SECTION THRU CLASSROOM
SCALE 1/4" = 1'-0"



7-03 EAVE AND WINDOW HEAD
SCALE 1/2" = 1'-0"

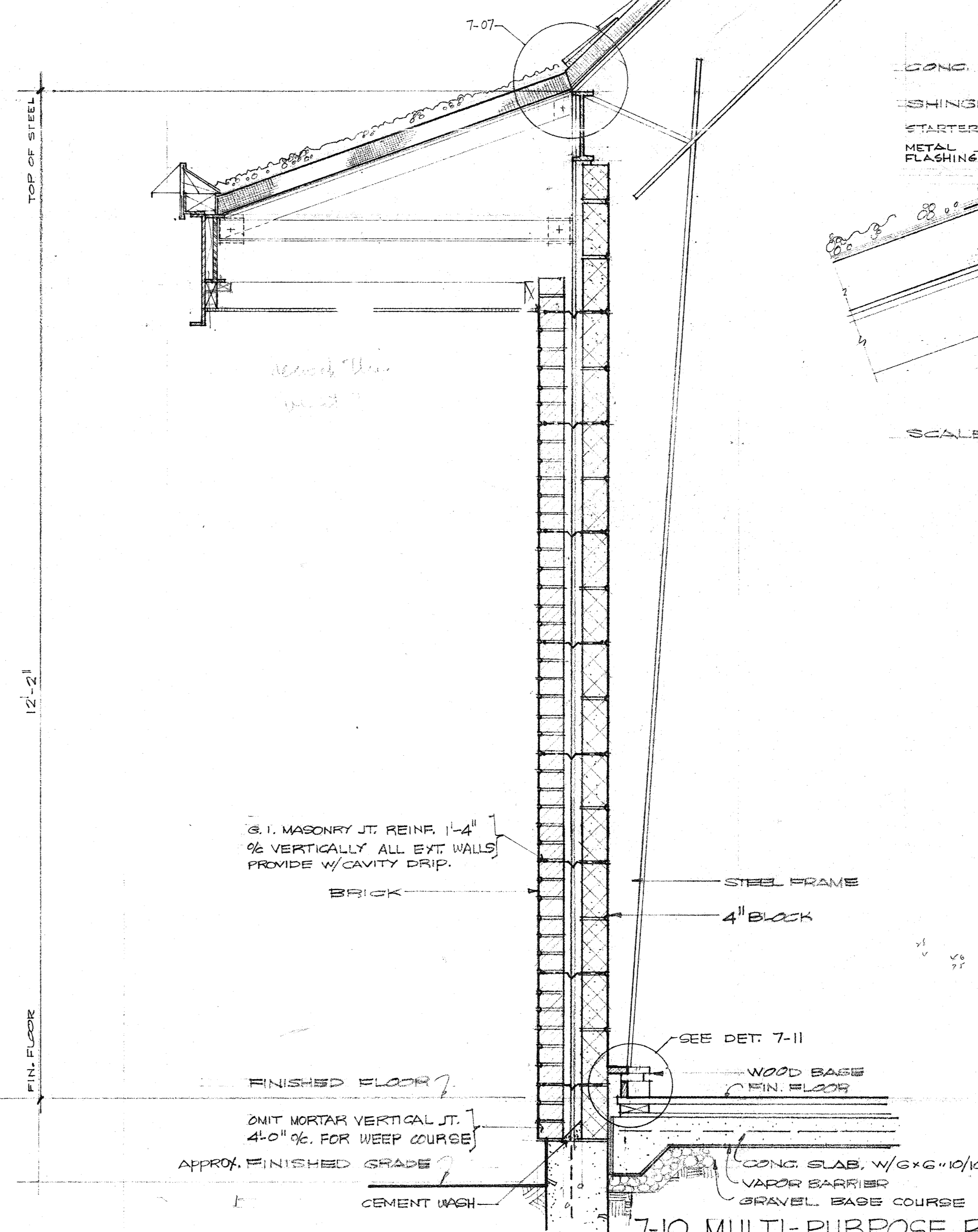


SCALE: 3" = 1'-0" 7-06

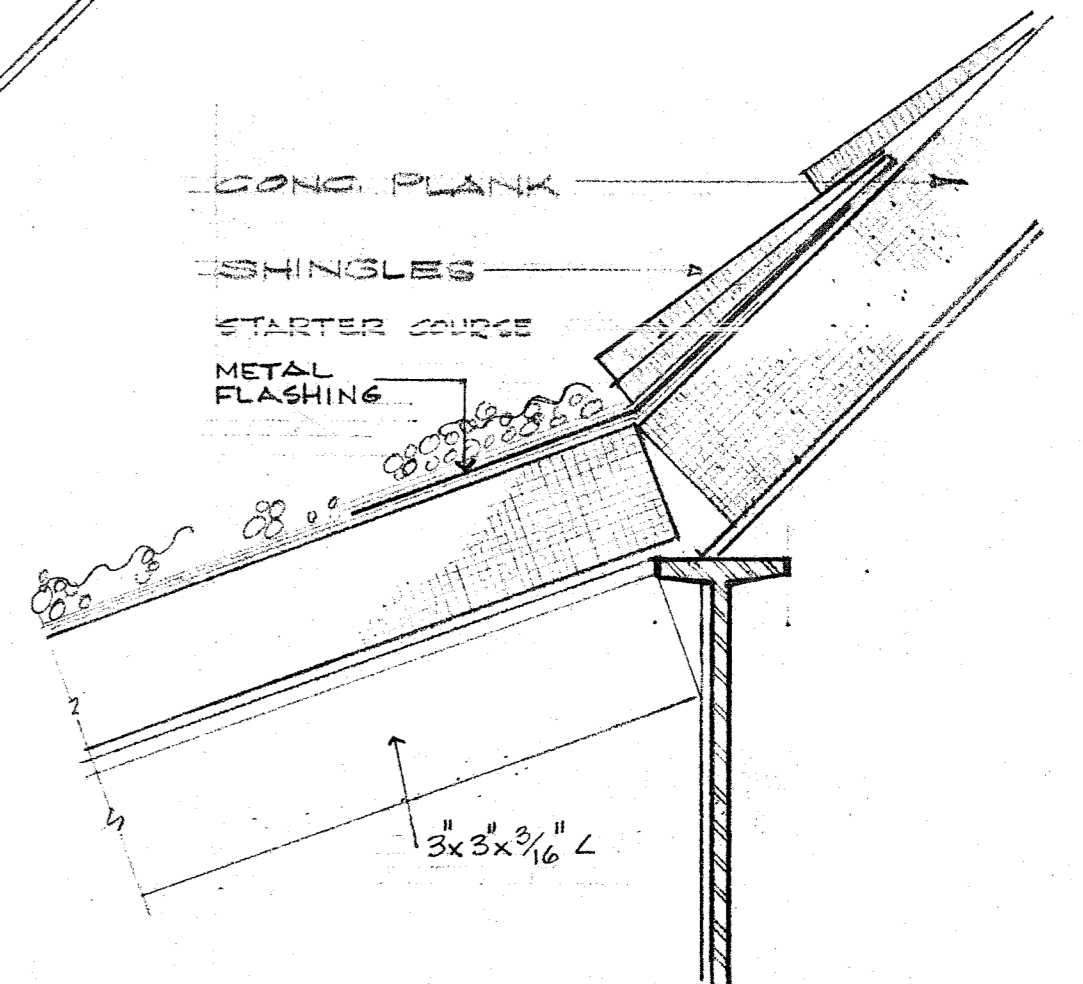


7-08 EXTERIOR CLASSROOM WALL SCALE 1" = 1'-0"

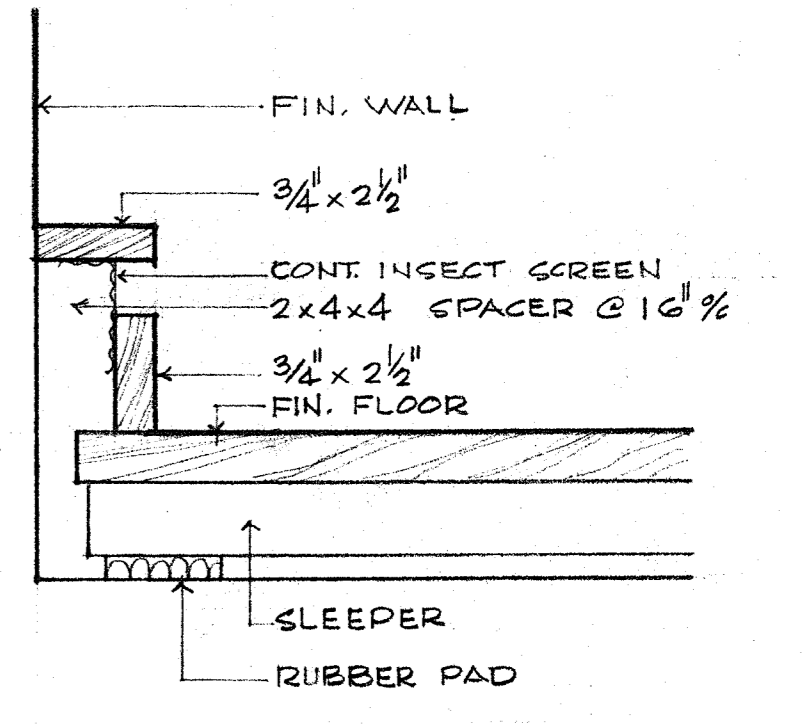
7-09 TYPICAL CORRIDOR WALL SCALE 1" = 1'-0"



7-10 MULTI-PURPOSE ROOM EXTERIOR WALL SCALE 1" = 1'-0"

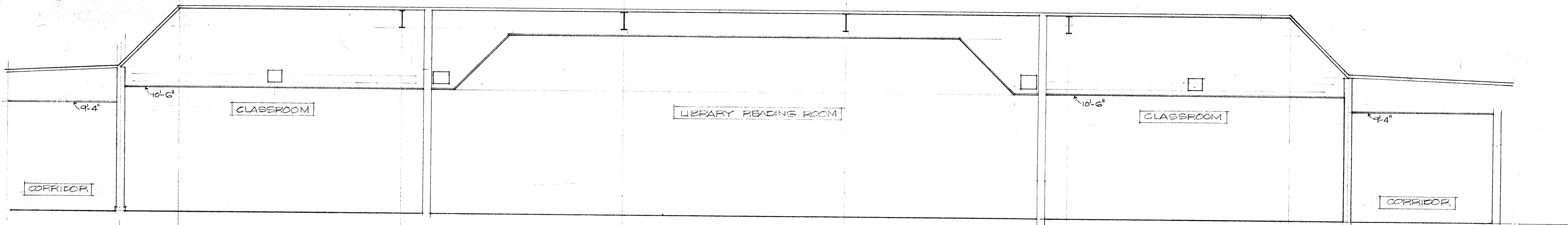


SCALE: 3" = 1'-0" 7-07

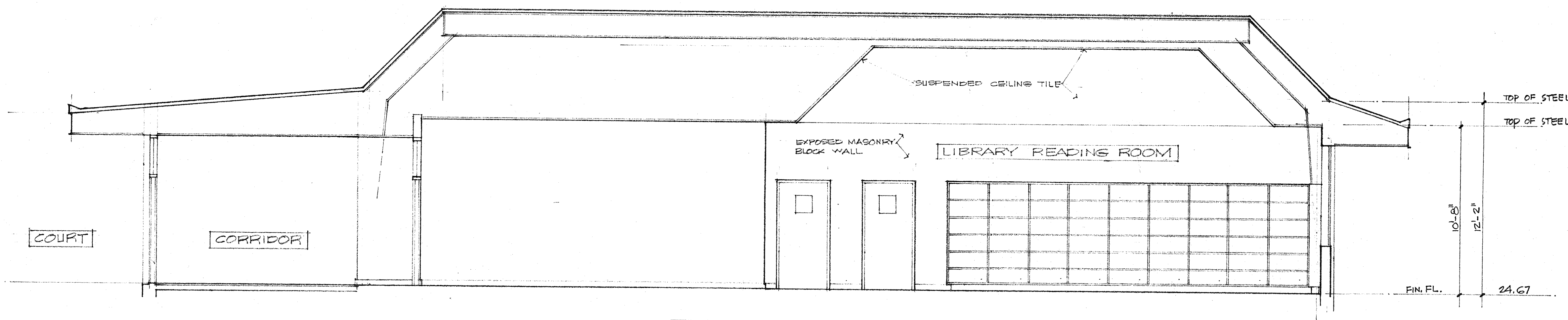


7-11 MULTIPURPOSE RM. FLOOR & BASE DET. SCALE 3" = 1'-0"

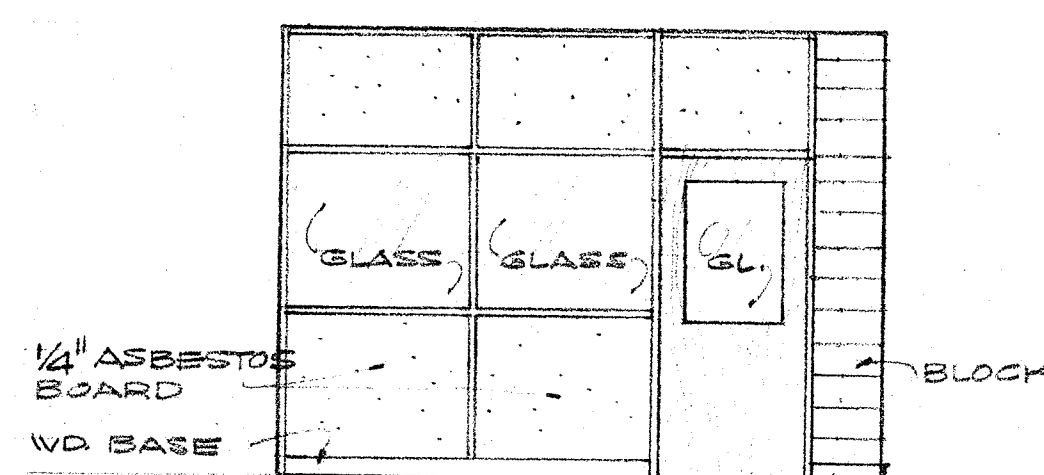
SEE SPECIFICATIONS FOR COMPLETE HARDWOOD FLOOR DATA.



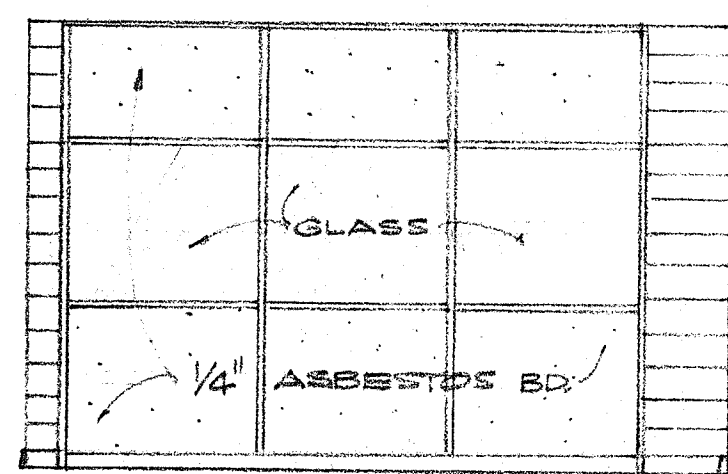
8-01 SECTION THRU LIBRARY
SCALE 1/4" = 1'-0"



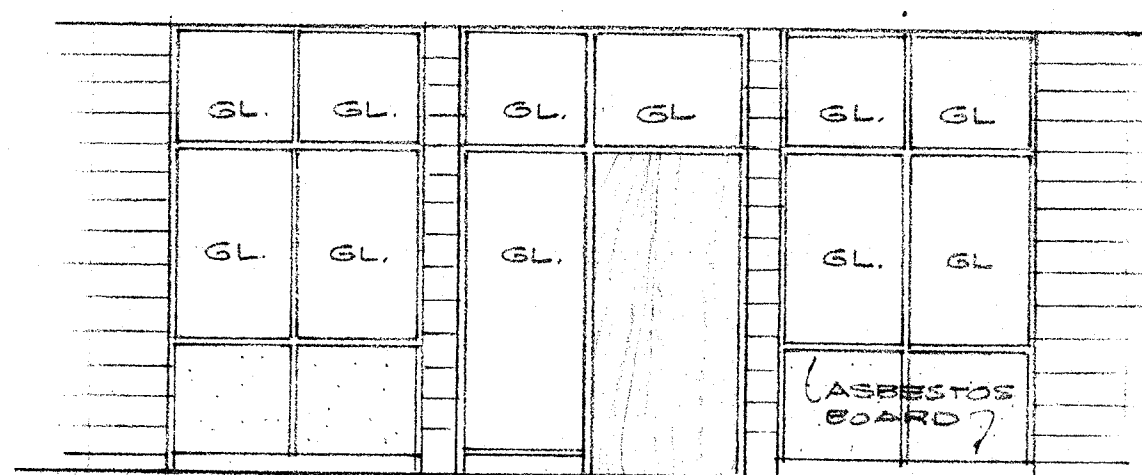
8-02 TRANSVERSE SECTION THRU LIBRARY
SCALE 1/4" = 1'-0"



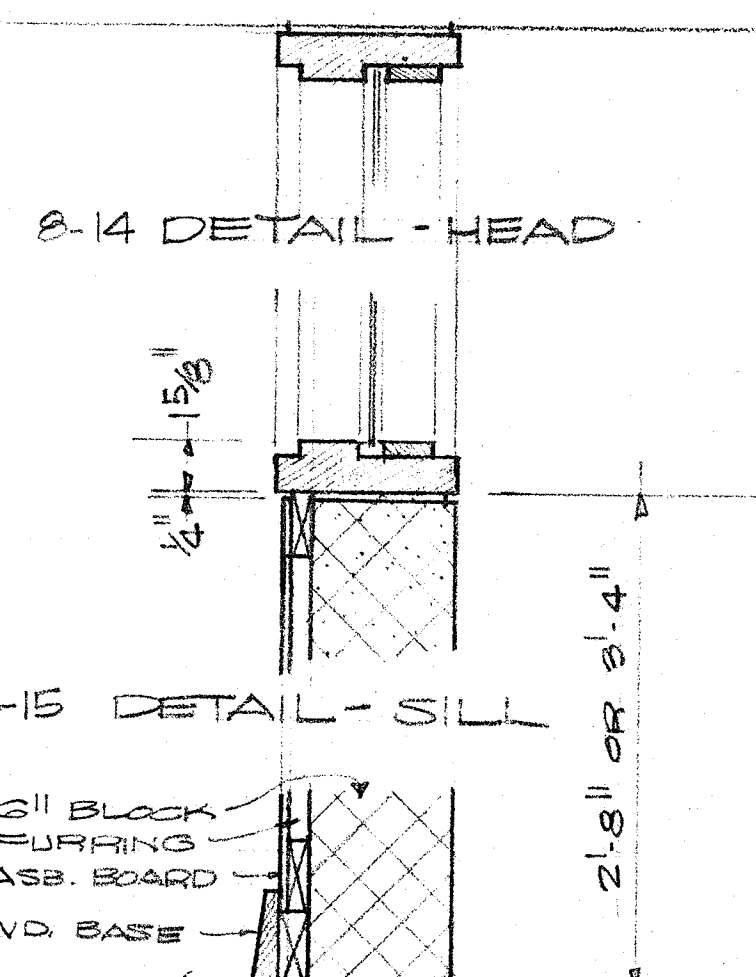
8-11 ELEVATION
1/4" = 1'-0"



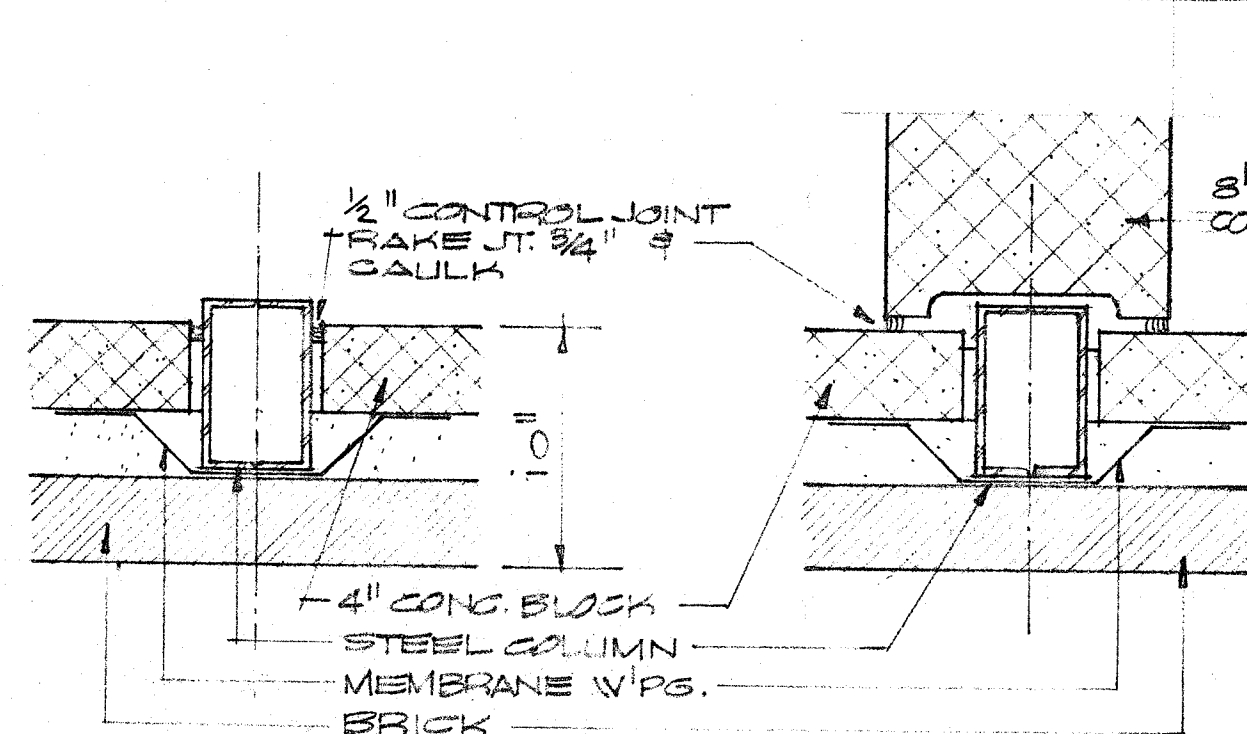
8-12 ELEVATION
1/4" = 1'-0"



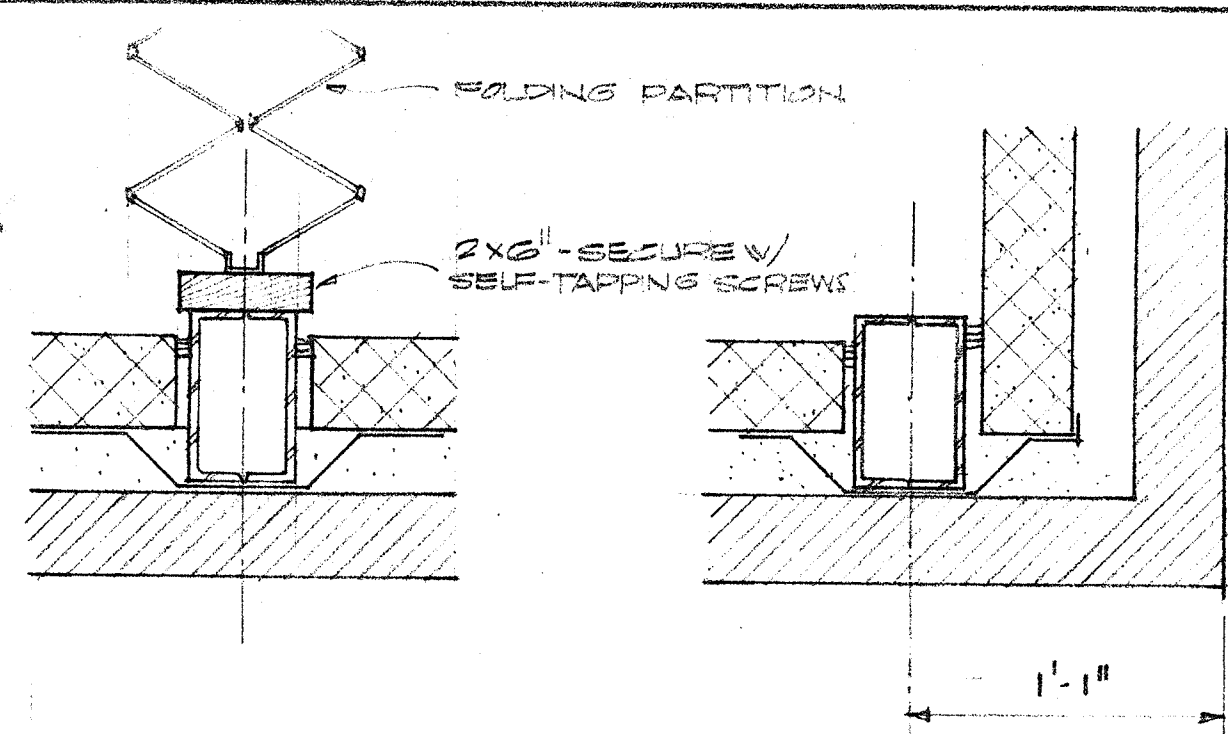
8-13 ELEVATION
1/4" = 1'-0"



8-14 DETAIL - HEAD
8-15 DETAIL - SILL
8-16 DETAIL - BASE
1/2" = 1'-0"

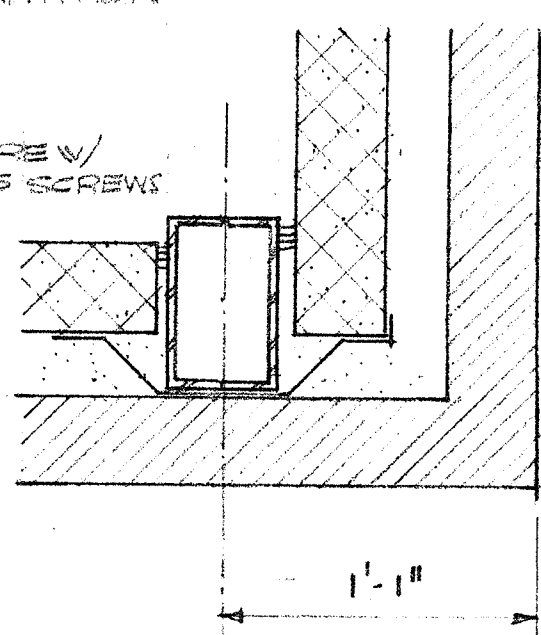


8-17 1 1/2" = 1'-0"

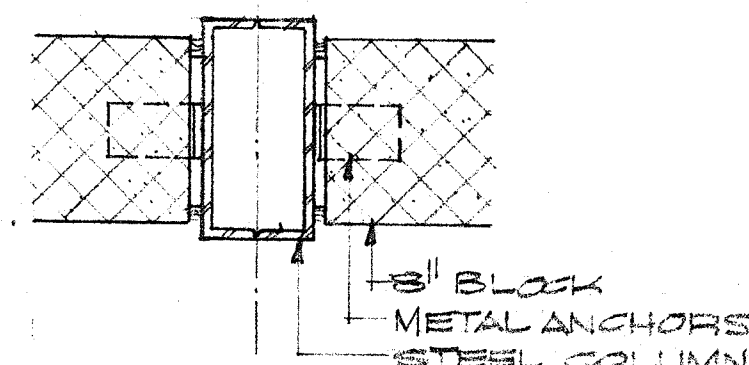


8-18 1 1/2" = 1'-0"

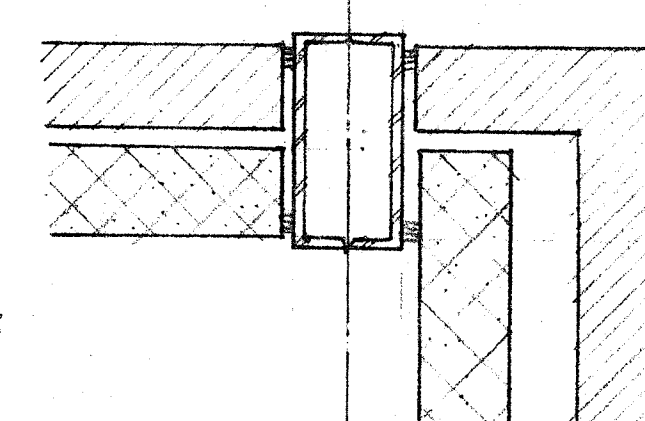
8-19 1 1/2" = 1'-0"



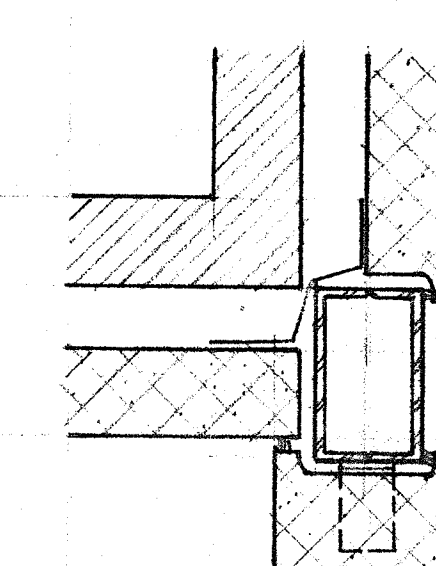
8-20 1 1/2" = 1'-0"



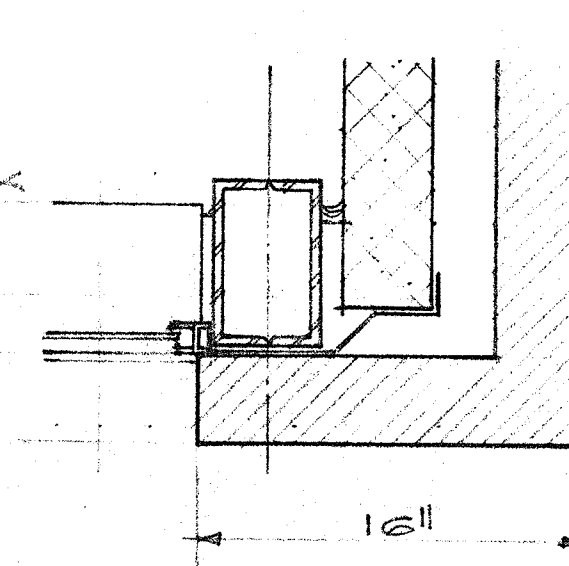
8-21 1 1/2" = 1'-0"



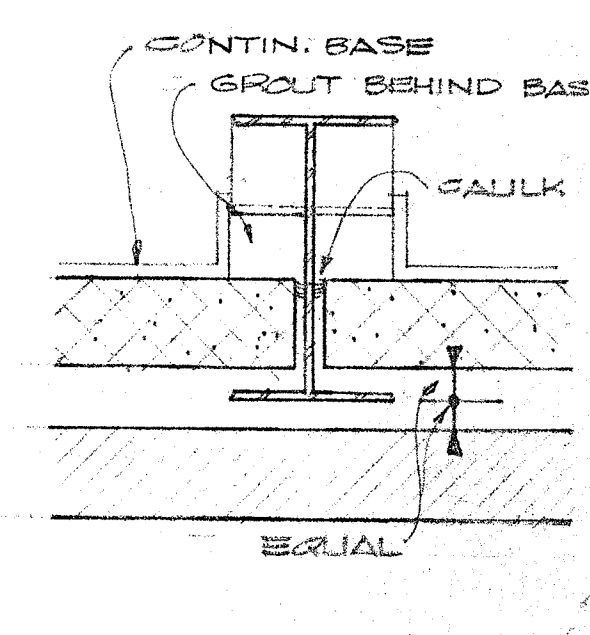
8-22 1 1/2" = 1'-0"



8-23 1 1/2" = 1'-0"



8-24 1 1/2" = 1'-0"



8-25 1 1/2" = 1'-0"

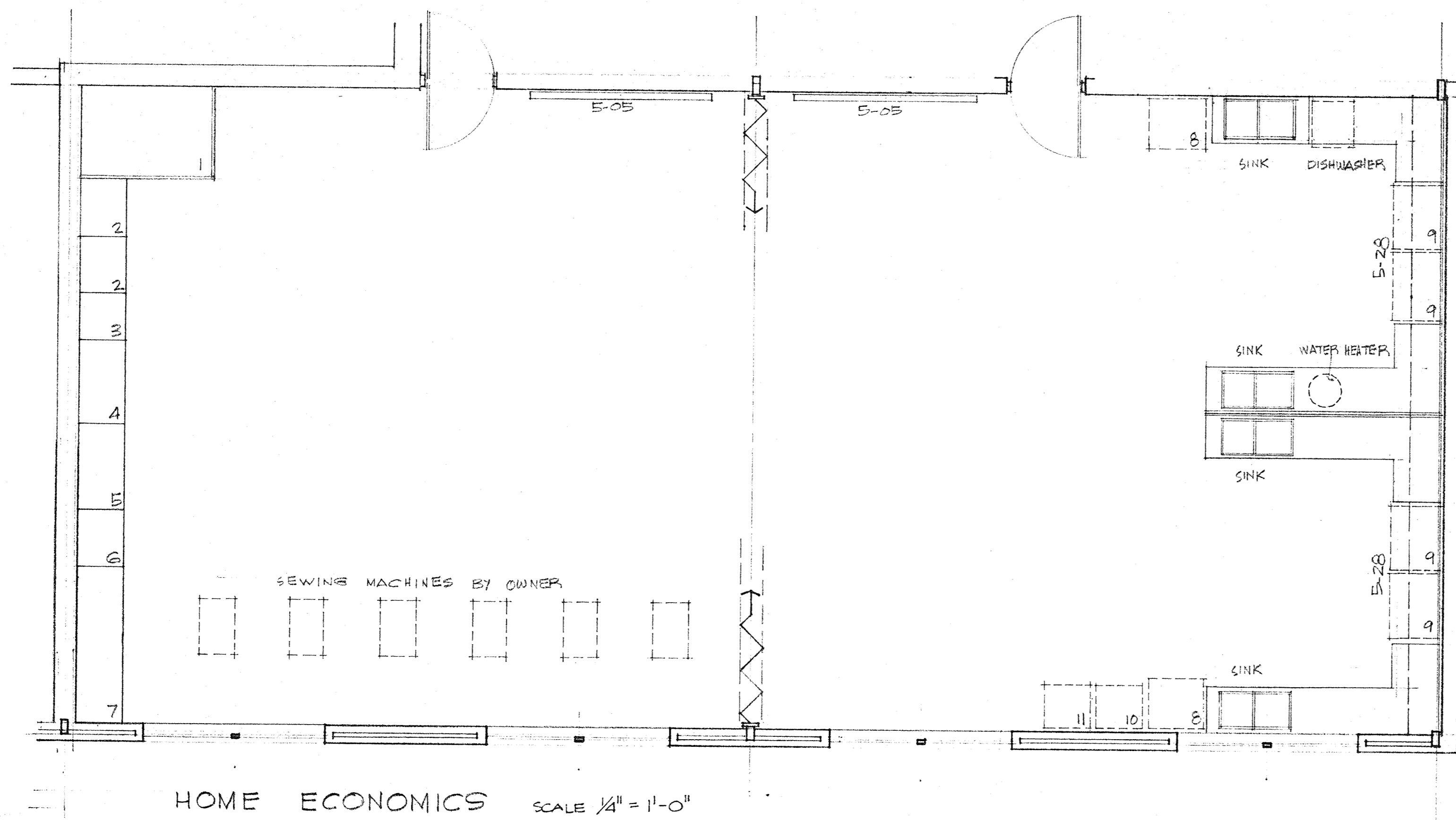
JOB NO. 6414
DATE NOV 14, 1965
DRAWN BY TJP: JWC

THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA

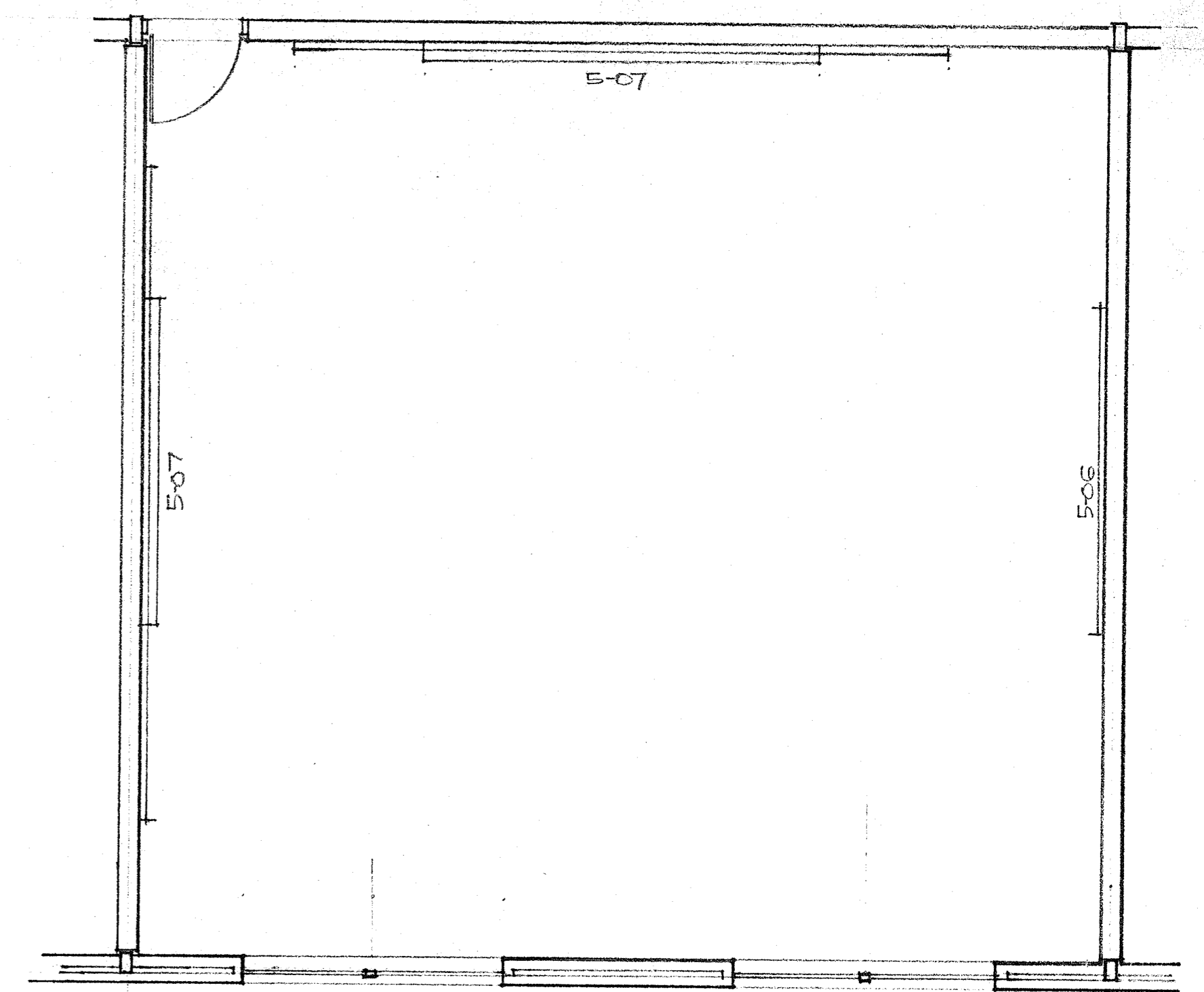
ON SLOW COUNTY BOARD OF EDUCATION
JAMES D. PIVER, CHAIRMAN
J. PAUL TYNDALL, SUPERINTENDENT

FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
JACKSONVILLE, NORTH CAROLINA

A B



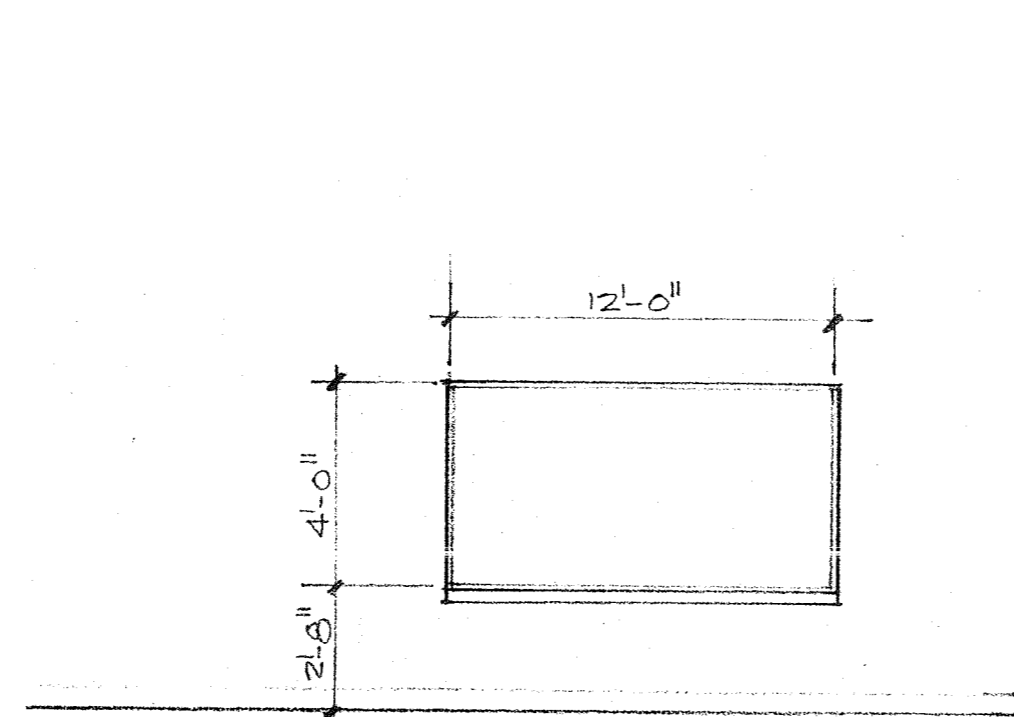
HOME ECONOMICS SCALE 1/4" = 1'-0"



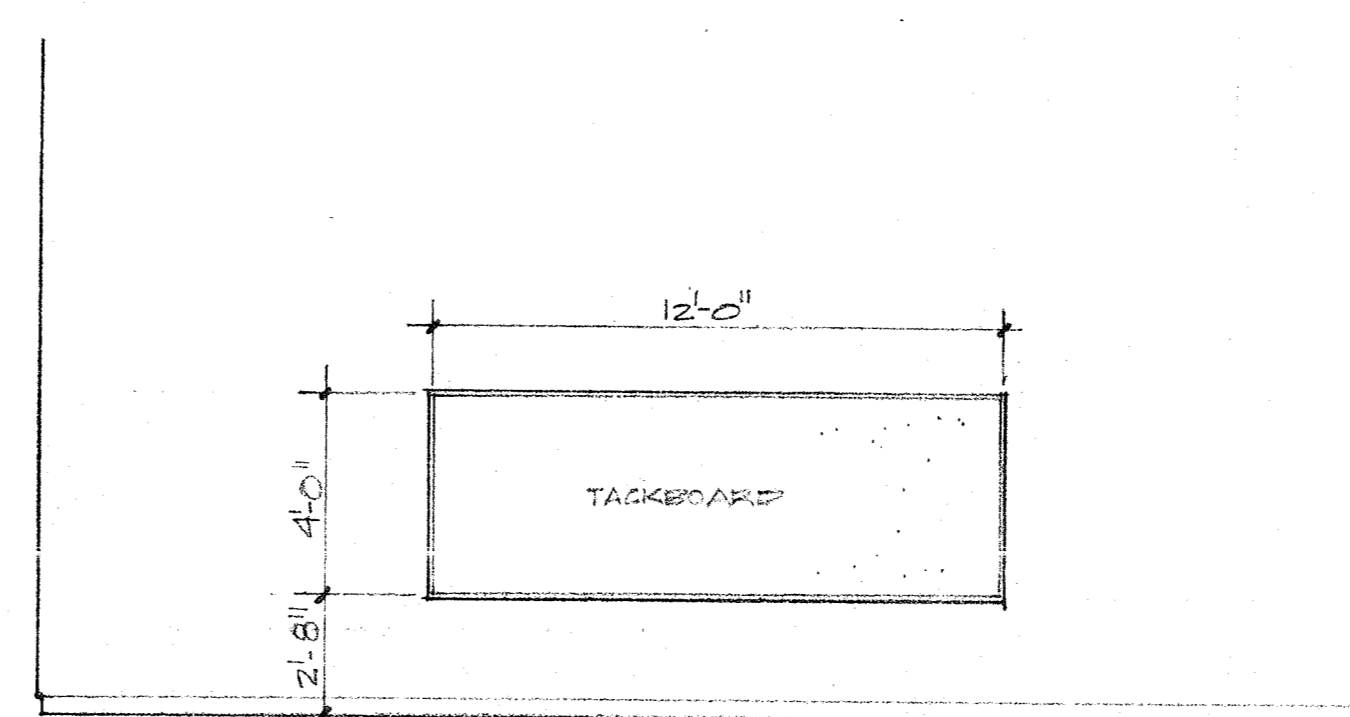
TYPICAL CLASSROOM SCALE 1/4" = 1'-0"

SCHEDULE OF EQUIPMENT TO BE FURNISHED BY OWNER

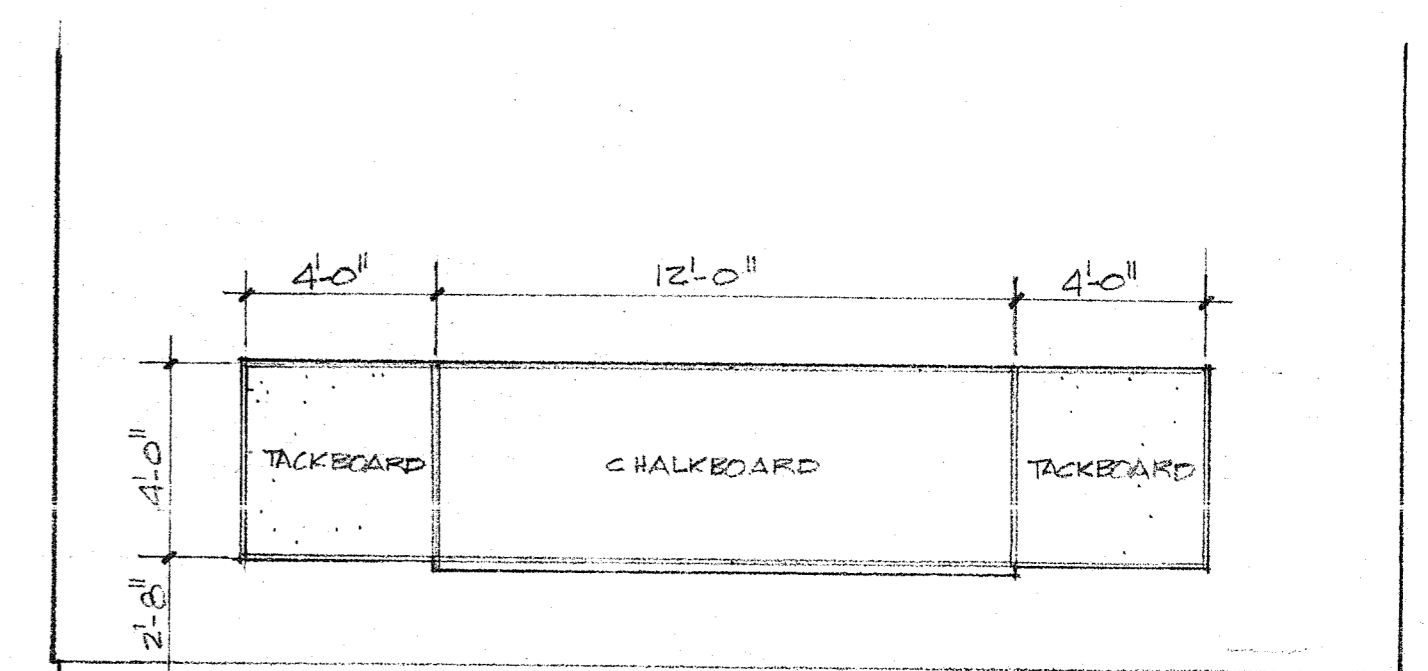
- 1 DRESSING CUBICLE
- 2 WARDROBE
- 3 MIRROR
- 4 MRPS & CHAIRS
- 5 TOTE TRAYS
- 6 IRONING BOARD
- 7 GENERAL STORAGE
- 8 REFRIGERATOR
- 9 RANGE
- 10 WASHER
- 11 DRYER



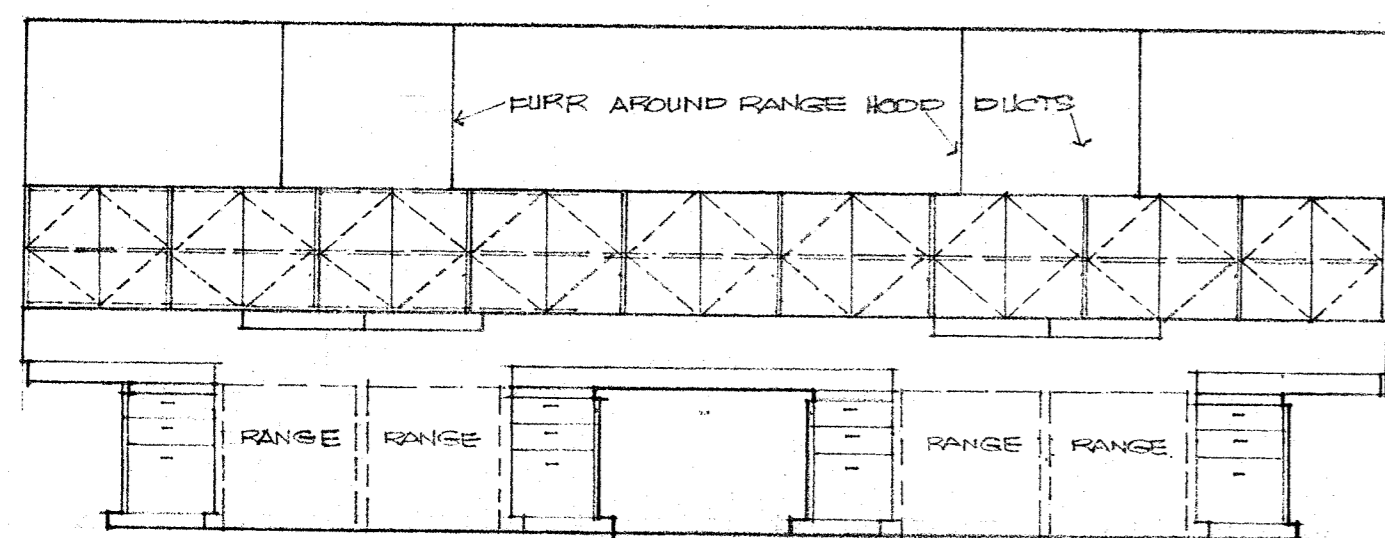
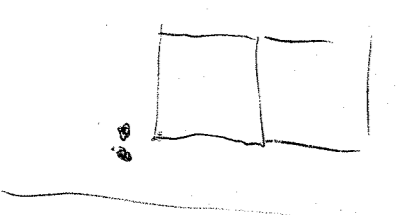
5-05 CHALKBOARD SCALE 1/4" = 1'-0"



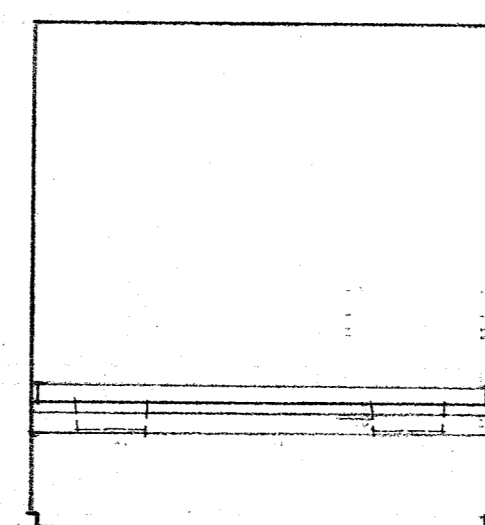
5-06 TACKBOARD SCALE 1/4" = 1'-0"



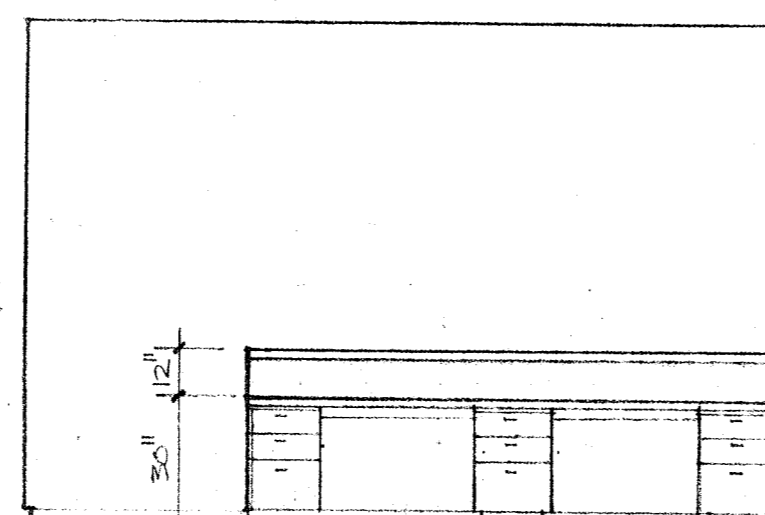
5-07 CHALKBOARD/TACKBOARD SCALE 1/4" = 1'-0"



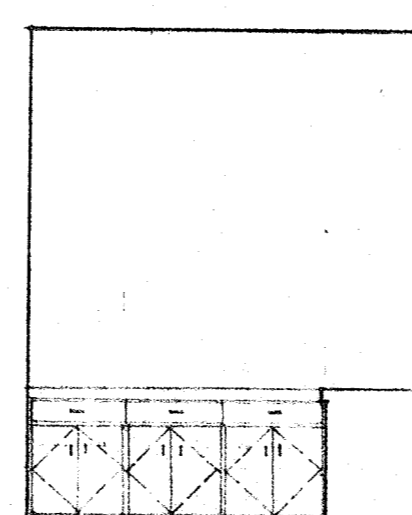
5-28 HOME ECONOMICS SCALE 1/4" = 1'-0"



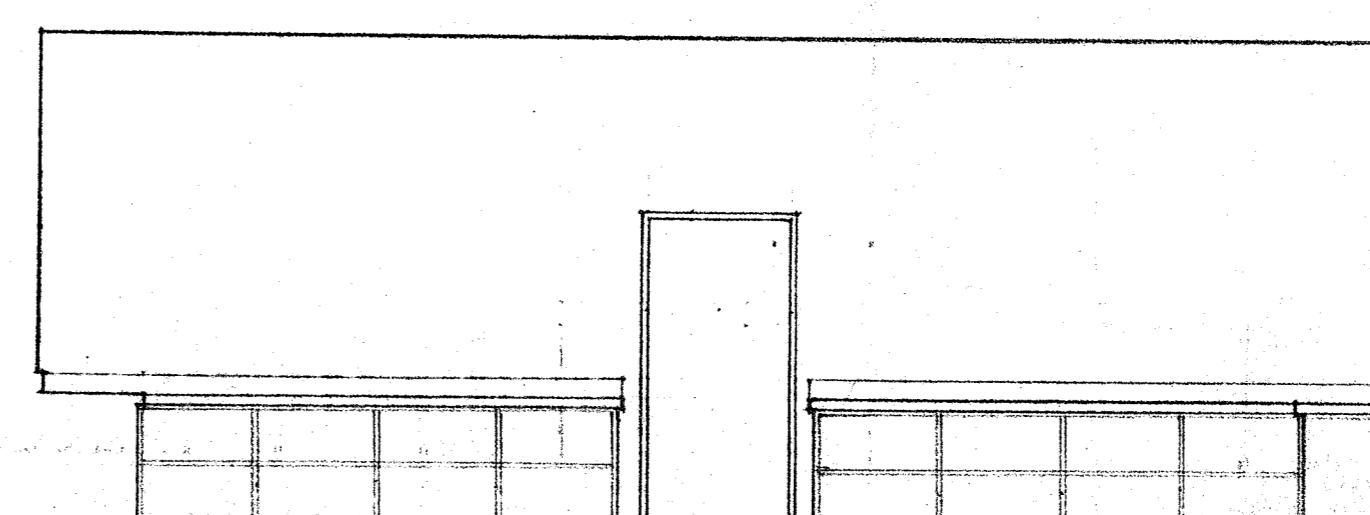
5-29 LADIES' LOUNGE SCALE 1/4" = 1'-0"



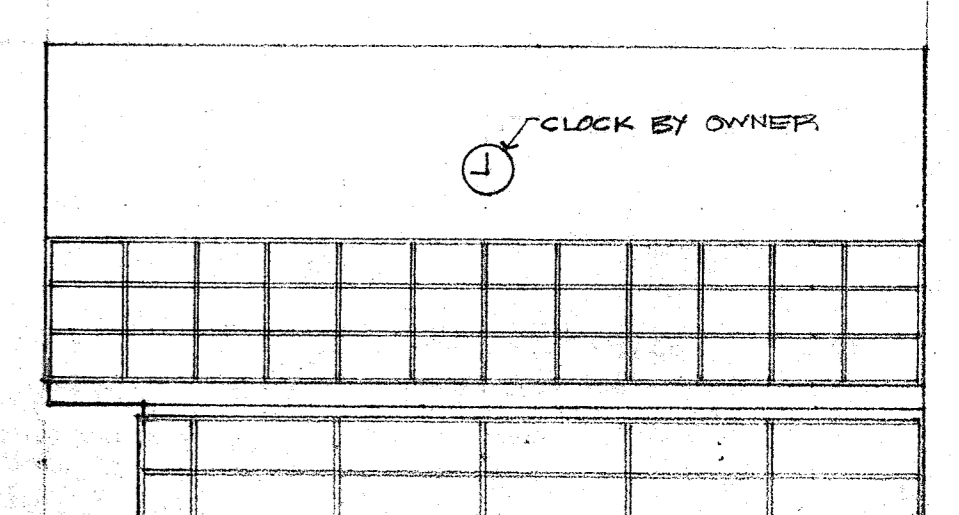
5-30 GENERAL OFFICE SCALE 1/4" = 1'-0"



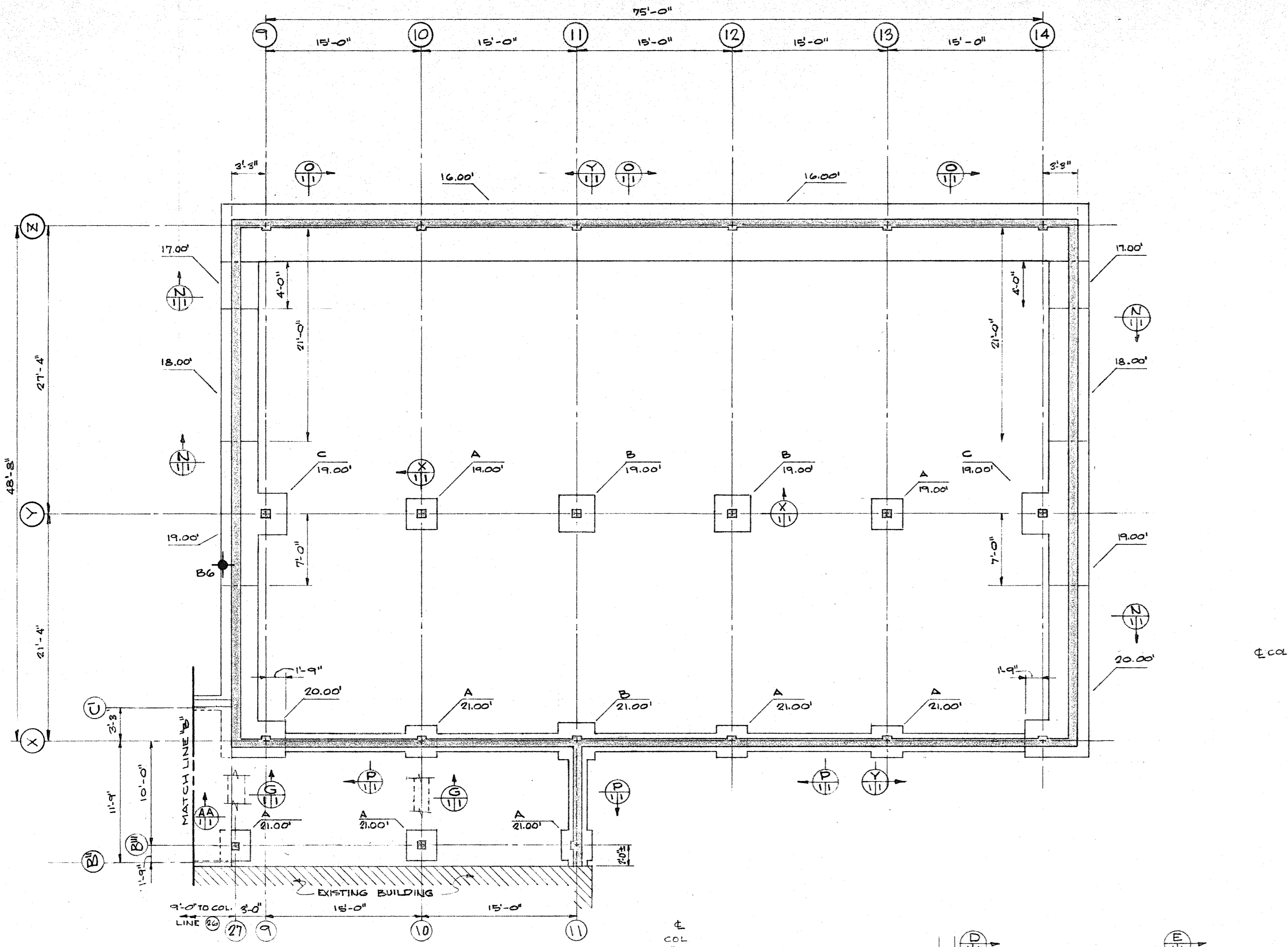
5-31 WORK RM. SCALE 1/4" = 1'-0"



5-32 WORK ROOM SCALE 1/4" = 1'-0"

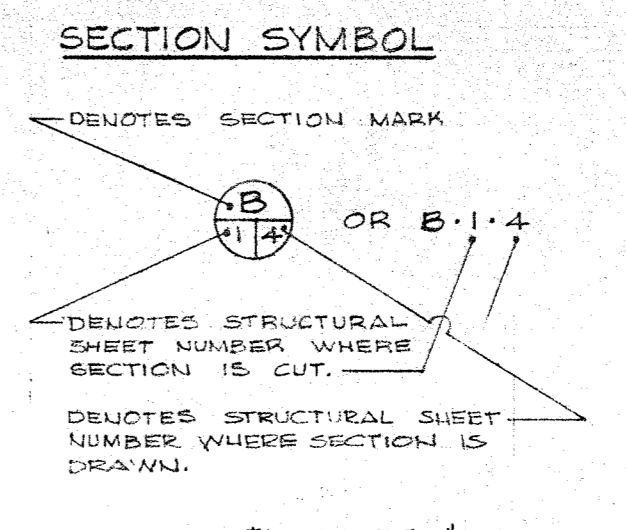


5-33 FACILITY MAILBOXES SCALE 1/4" = 1'-0"

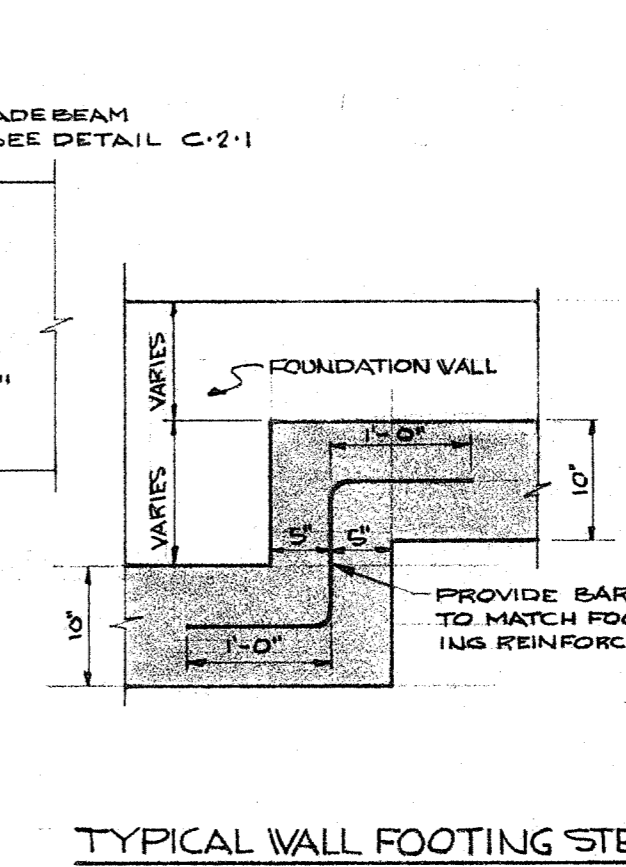
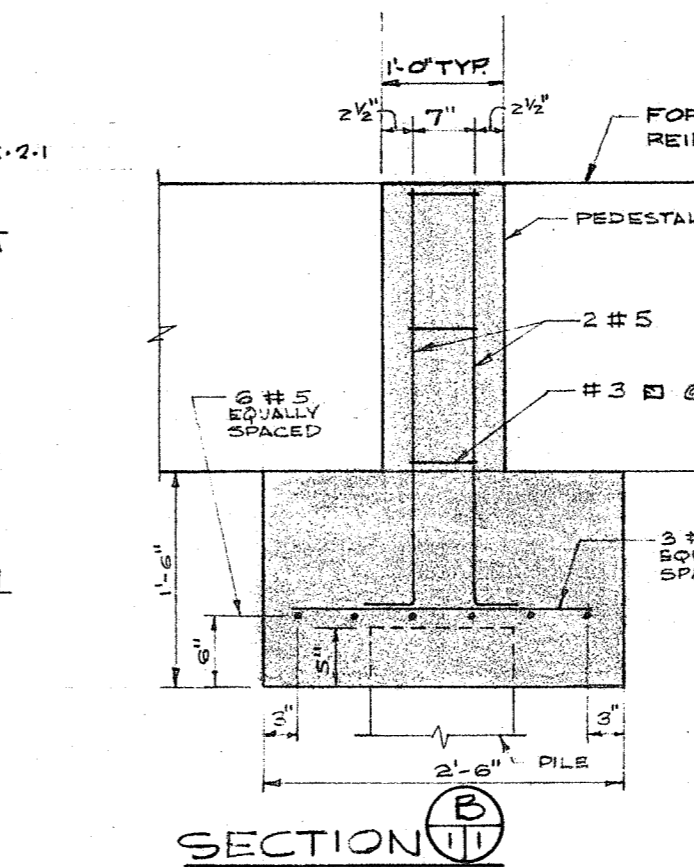
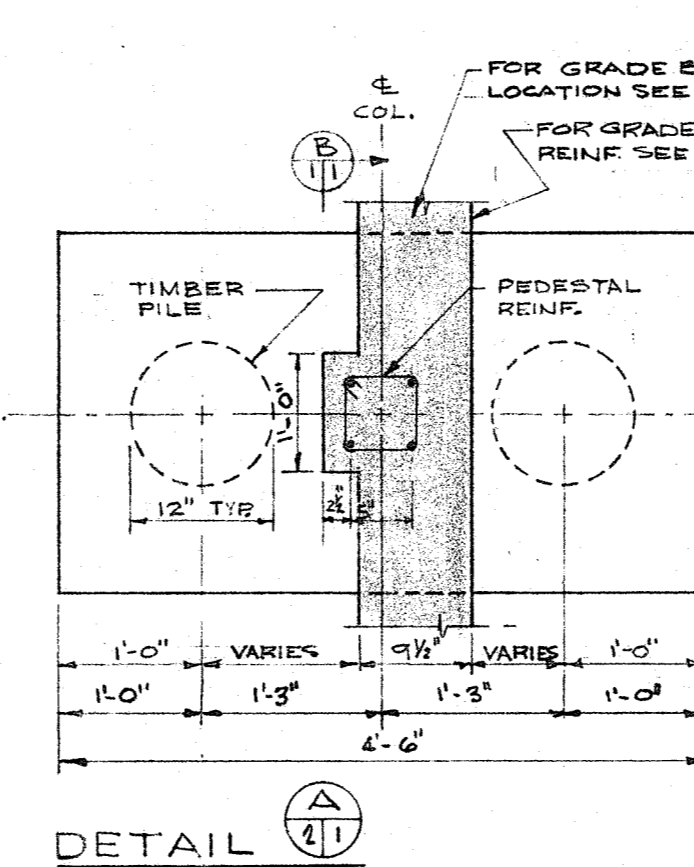
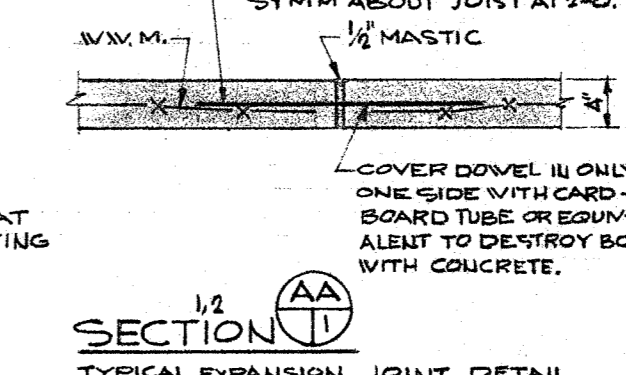
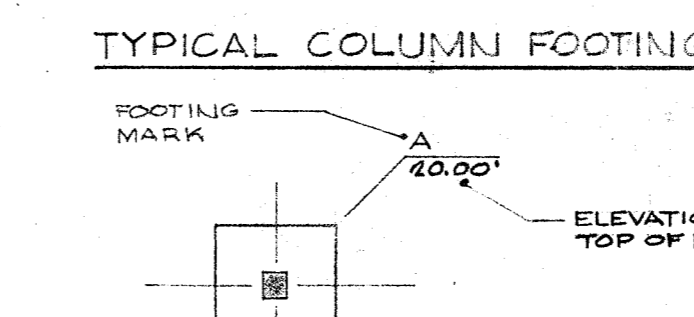
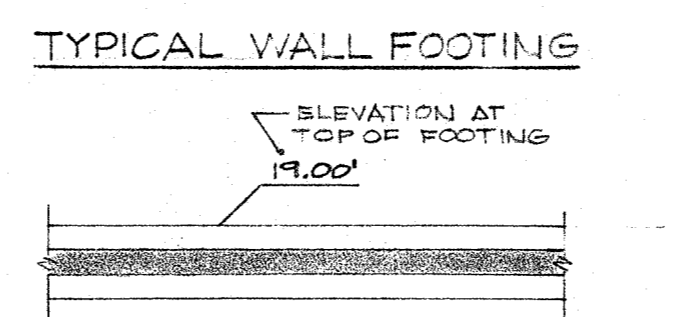


SIZE	REMARKS
2x4 @ 16" O.C.	FOR EACH 4" OF WALL
2x6 @ 16" O.C.	FOR EACH 4" OF WALL
2x8 @ 16" O.C.	FOR EACH 4" OF WALL
2x10 @ 16" O.C.	FOR EACH 4" OF WALL
2x12 @ 16" O.C.	FOR EACH 4" OF WALL
2x14 @ 16" O.C.	FOR EACH 4" OF WALL
2x16 @ 16" O.C.	FOR EACH 4" OF WALL
2x18 @ 16" O.C.	FOR EACH 4" OF WALL
2x20 @ 16" O.C.	FOR EACH 4" OF WALL
2x22 @ 16" O.C.	FOR EACH 4" OF WALL
2x24 @ 16" O.C.	FOR EACH 4" OF WALL
2x26 @ 16" O.C.	FOR EACH 4" OF WALL
2x28 @ 16" O.C.	FOR EACH 4" OF WALL
2x30 @ 16" O.C.	FOR EACH 4" OF WALL
2x32 @ 16" O.C.	FOR EACH 4" OF WALL
2x34 @ 16" O.C.	FOR EACH 4" OF WALL
2x36 @ 16" O.C.	FOR EACH 4" OF WALL
2x38 @ 16" O.C.	FOR EACH 4" OF WALL
2x40 @ 16" O.C.	FOR EACH 4" OF WALL
2x42 @ 16" O.C.	FOR EACH 4" OF WALL
2x44 @ 16" O.C.	FOR EACH 4" OF WALL
2x46 @ 16" O.C.	FOR EACH 4" OF WALL
2x48 @ 16" O.C.	FOR EACH 4" OF WALL
2x50 @ 16" O.C.	FOR EACH 4" OF WALL
2x52 @ 16" O.C.	FOR EACH 4" OF WALL
2x54 @ 16" O.C.	FOR EACH 4" OF WALL
2x56 @ 16" O.C.	FOR EACH 4" OF WALL
2x58 @ 16" O.C.	FOR EACH 4" OF WALL
2x60 @ 16" O.C.	FOR EACH 4" OF WALL
2x62 @ 16" O.C.	FOR EACH 4" OF WALL
2x64 @ 16" O.C.	FOR EACH 4" OF WALL
2x66 @ 16" O.C.	FOR EACH 4" OF WALL
2x68 @ 16" O.C.	FOR EACH 4" OF WALL
2x70 @ 16" O.C.	FOR EACH 4" OF WALL
2x72 @ 16" O.C.	FOR EACH 4" OF WALL
2x74 @ 16" O.C.	FOR EACH 4" OF WALL
2x76 @ 16" O.C.	FOR EACH 4" OF WALL
2x78 @ 16" O.C.	FOR EACH 4" OF WALL
2x80 @ 16" O.C.	FOR EACH 4" OF WALL
2x82 @ 16" O.C.	FOR EACH 4" OF WALL
2x84 @ 16" O.C.	FOR EACH 4" OF WALL
2x86 @ 16" O.C.	FOR EACH 4" OF WALL
2x88 @ 16" O.C.	FOR EACH 4" OF WALL
2x90 @ 16" O.C.	FOR EACH 4" OF WALL
2x92 @ 16" O.C.	FOR EACH 4" OF WALL
2x94 @ 16" O.C.	FOR EACH 4" OF WALL
2x96 @ 16" O.C.	FOR EACH 4" OF WALL
2x98 @ 16" O.C.	FOR EACH 4" OF WALL
2x100 @ 16" O.C.	FOR EACH 4" OF WALL

DESIGN LIVE LOADS	REMARKS
WIND	35 PSF
ROOF	20 PSF

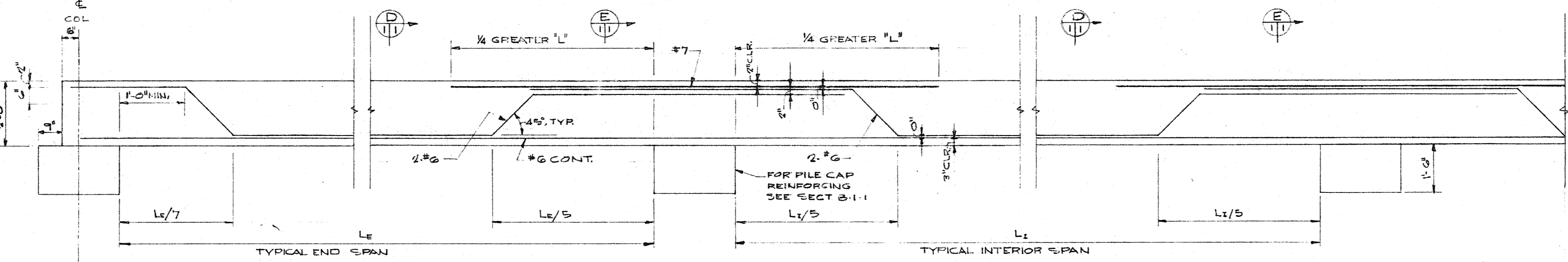


- GENERAL NOTES**
- FOOTINGS SHALL BEAR ON UNDISTURBED SOIL WITH A MINIMUM BEARING CAPACITY OF 2000 P.S.F.
 - FOOTINGS SHALL BE CONSTRUCTED AT A LOWER ELEVATION THAN THAT INDICATED ON THE DRAWINGS IF REQUIRED BY THE ARCHITECT TO OBTAIN FIRM UNDISTURBED SOIL.
 - ALL SLABS ON GRADE SHALL BE PLACED OVER A WELL COMPACTED GRAVEL OR SAND FILL PLACED ON ORIGINAL SOIL OR ON EARTH FILL AS SPECIFIED IN NOTE 5.
 - ALL INTERIOR FILL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY, A.S.T.M. D 1557-57 AT OPTIMUM MOISTURE CONTENT. EACH LAYER OF FILL SHALL BE NO GREATER THAN 4" THICK AND SHALL BE COMPACTED TO 95% OF ITS MAXIMUM DENSITY FROM TOP TO THE PLACEMENT OF EACH LAYER.
 - ALL PILES SHALL BE DRIVEN TO A MINIMUM PENETRATION OF 15 TONS MINIMUM CAPACITY. ALL PILES SHALL BE GIVEN APPROXIMATELY 25 FEET TO A PENETRATION RESISTANCE OF AT LEAST 2 AND NOT MORE THAN 5 BLOW'S PER INCH, AVERAGED OVER THE LAST 6 INCHES, WITH A POWER HAMMER WHOSE RATE CAPACITY IS AT LEAST 8750 BLOW'S PER MINUTE.

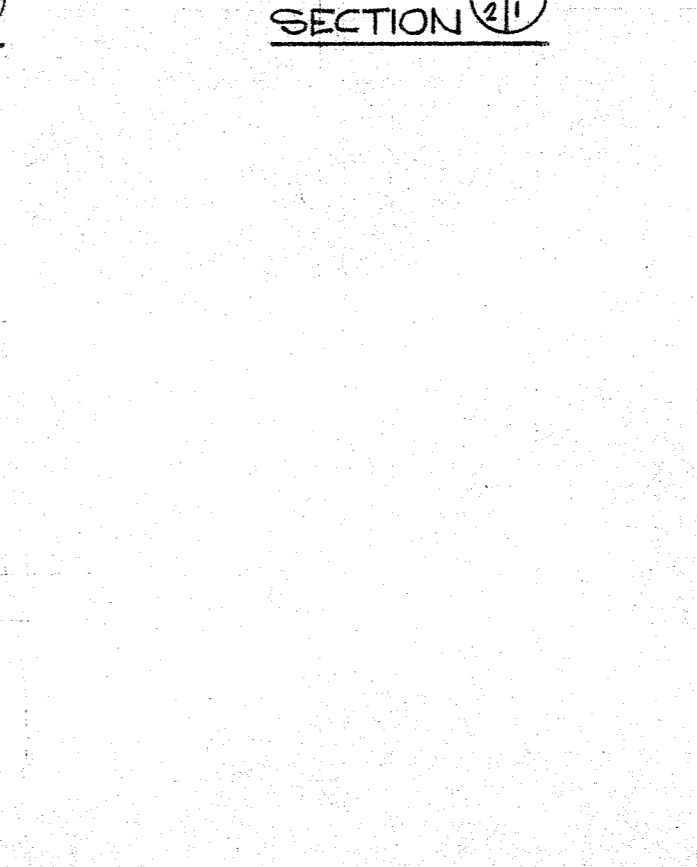
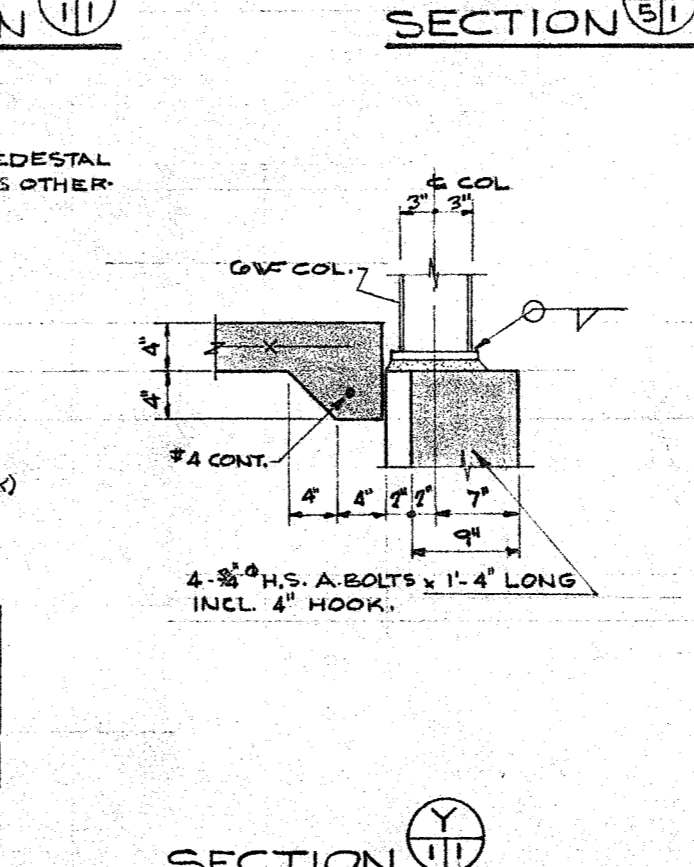
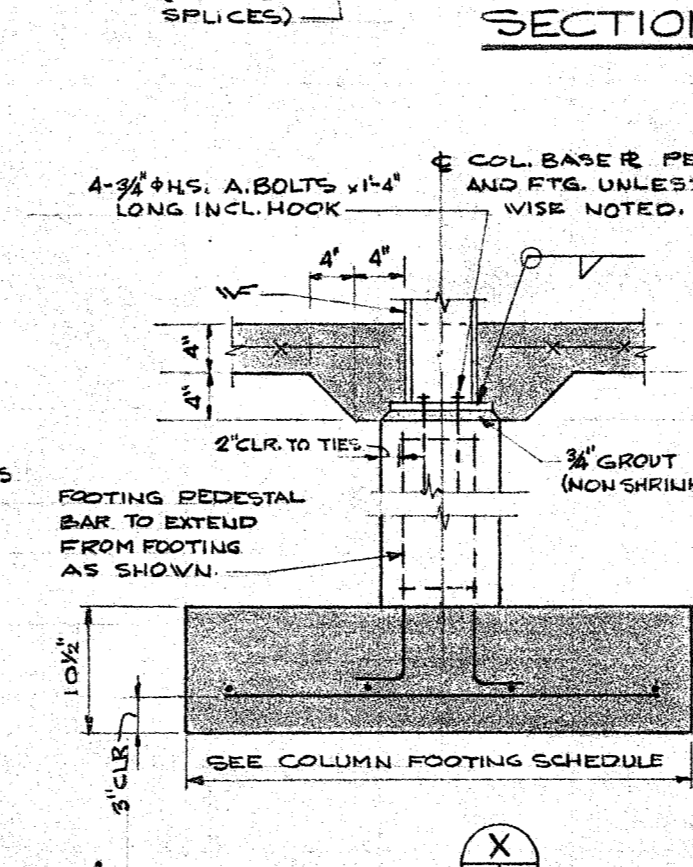
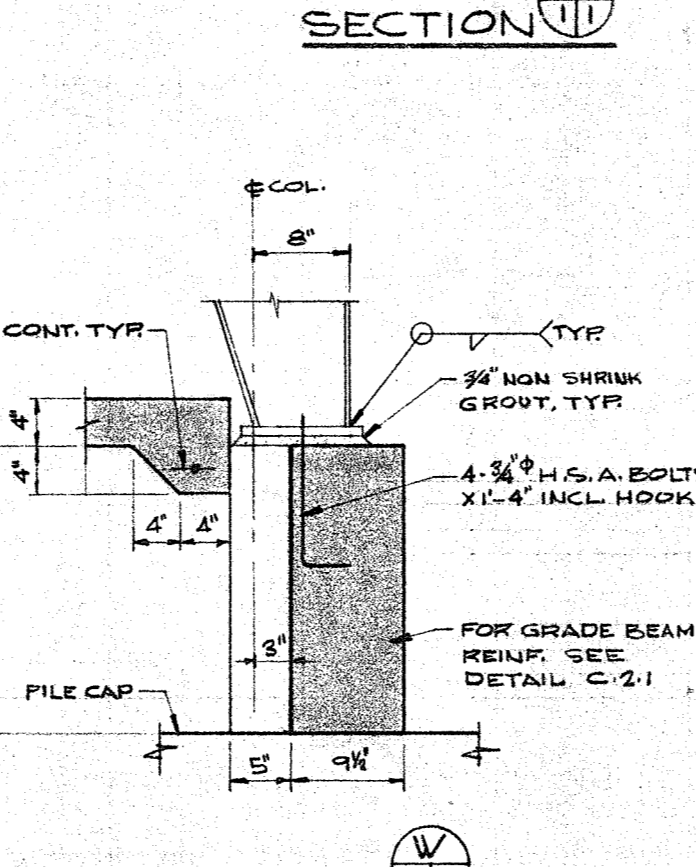
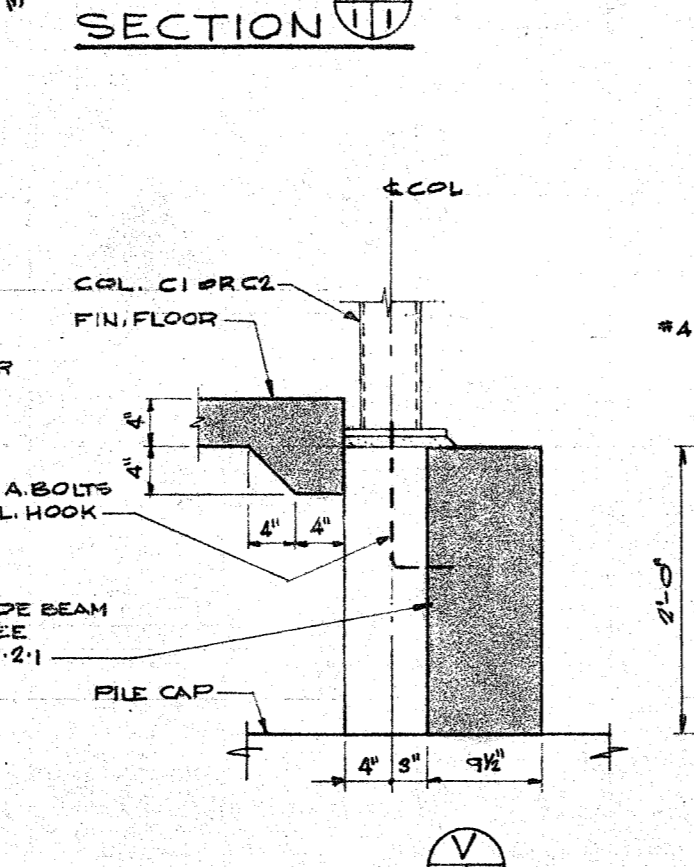
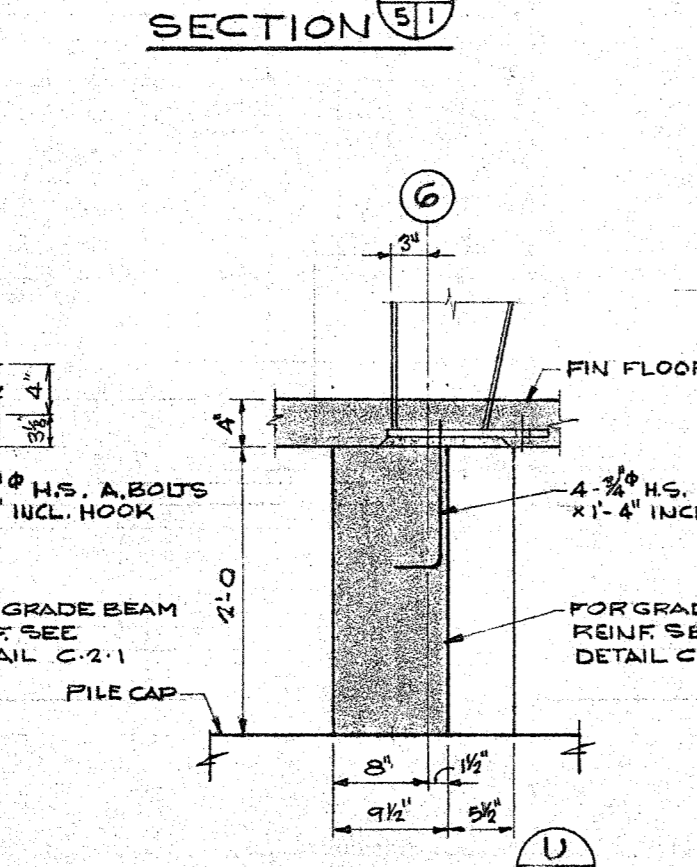
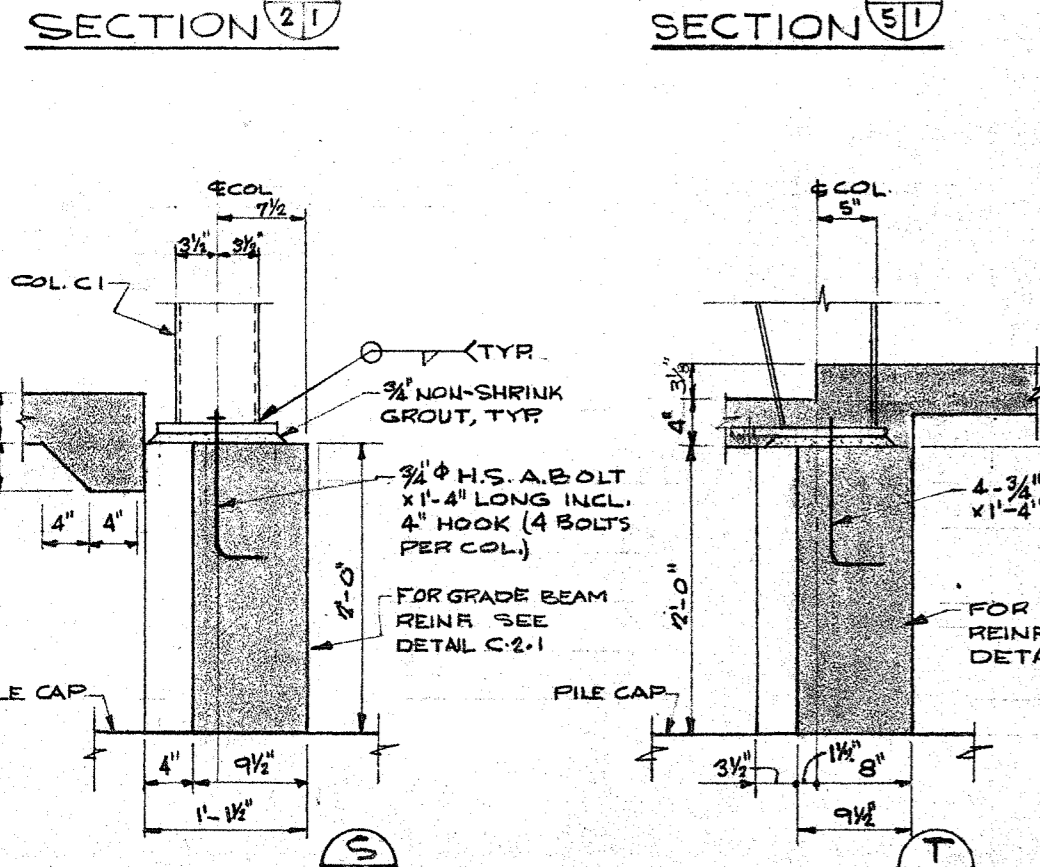
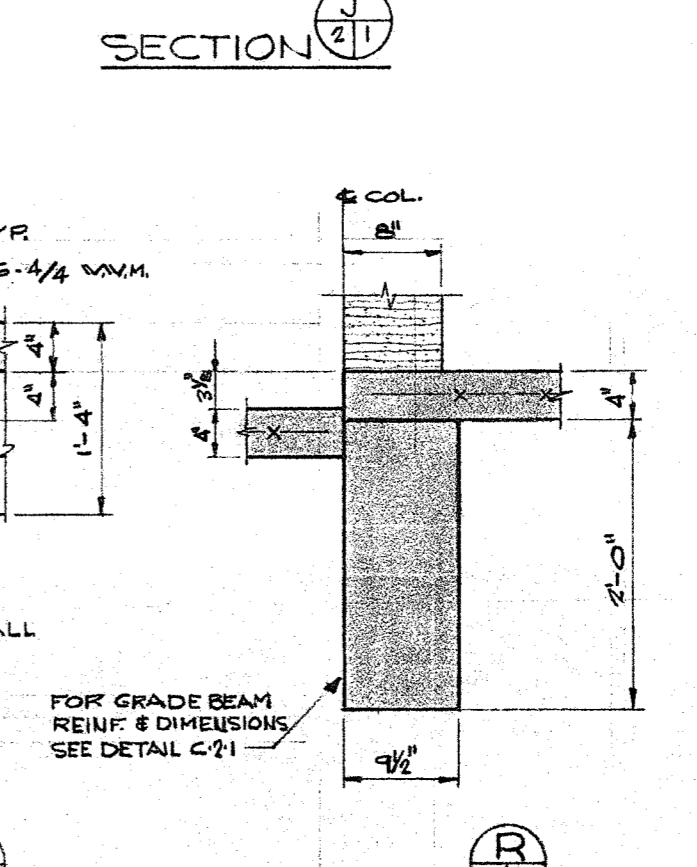
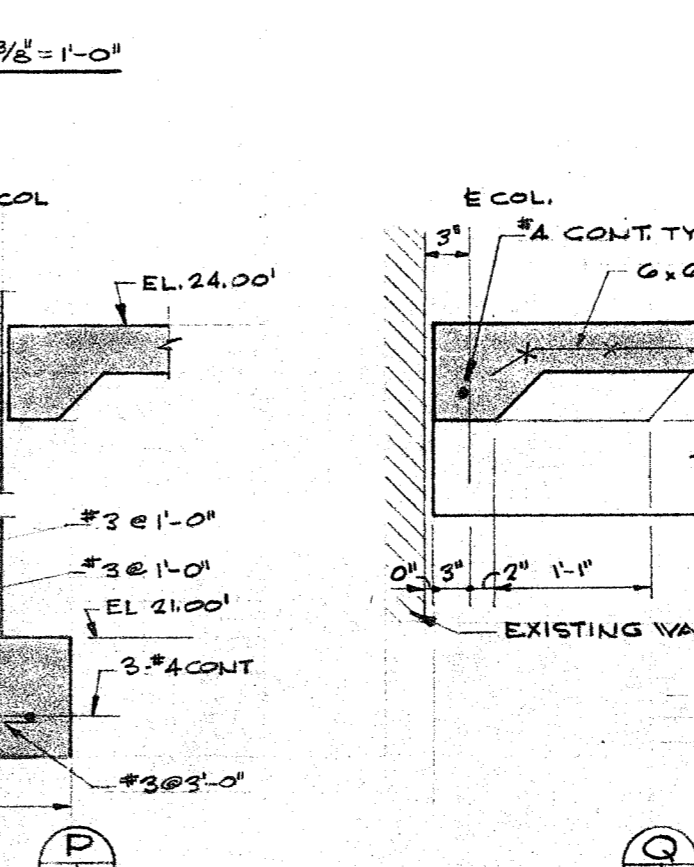
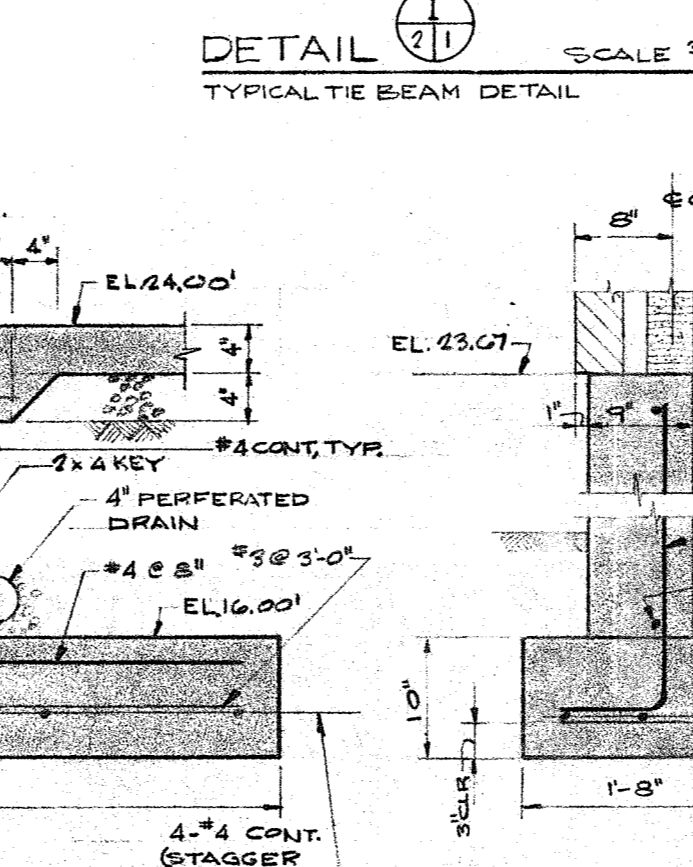
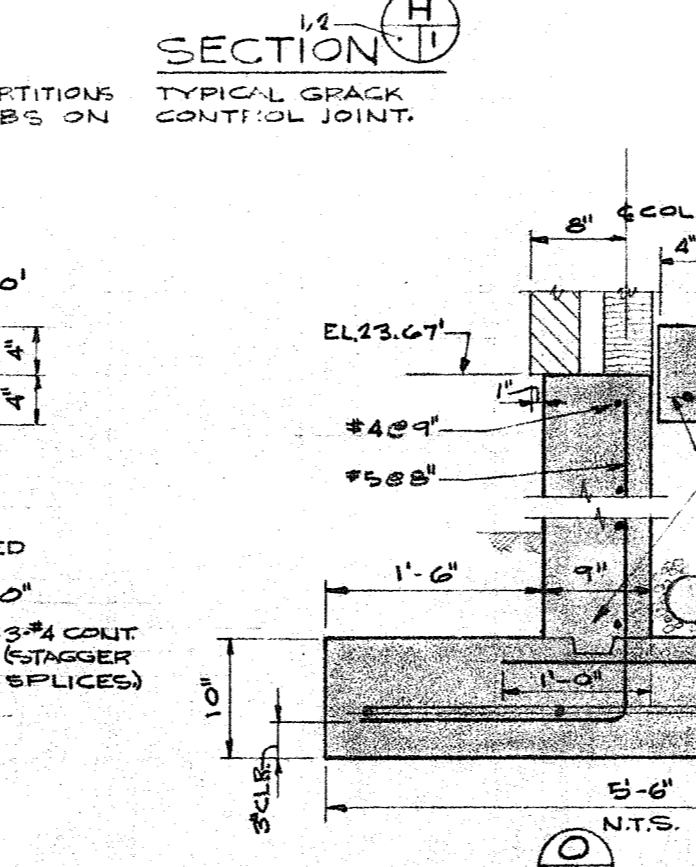
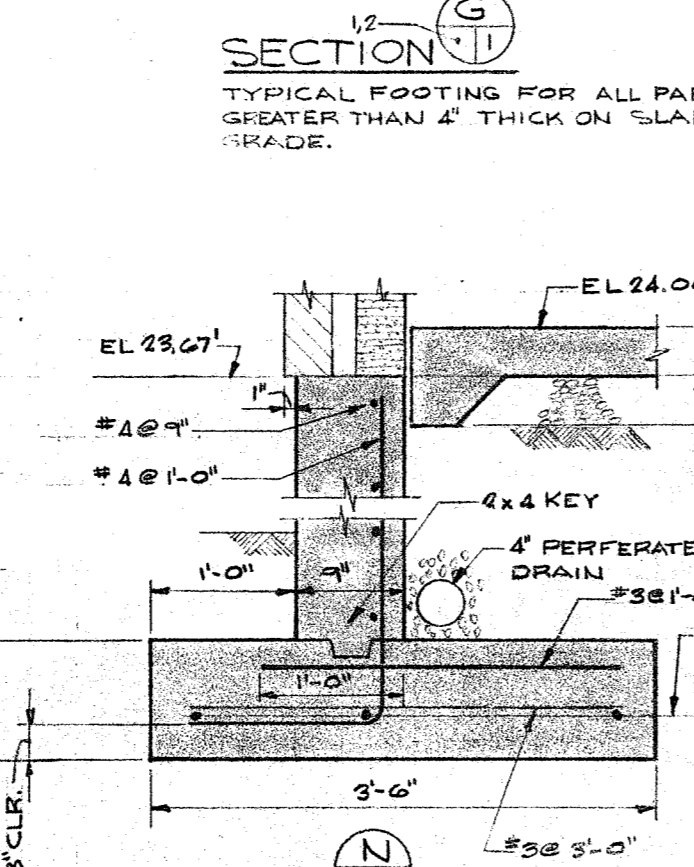
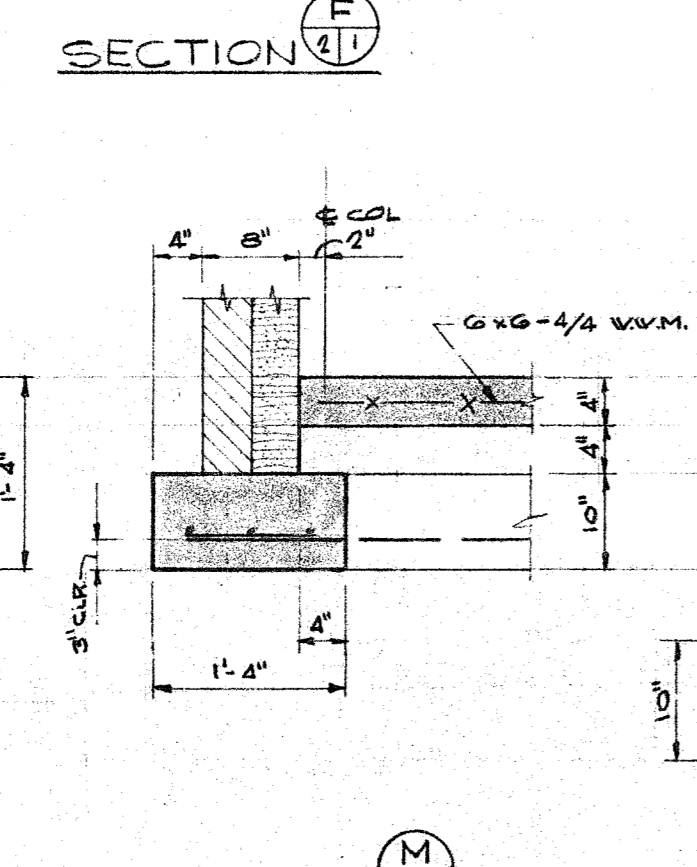
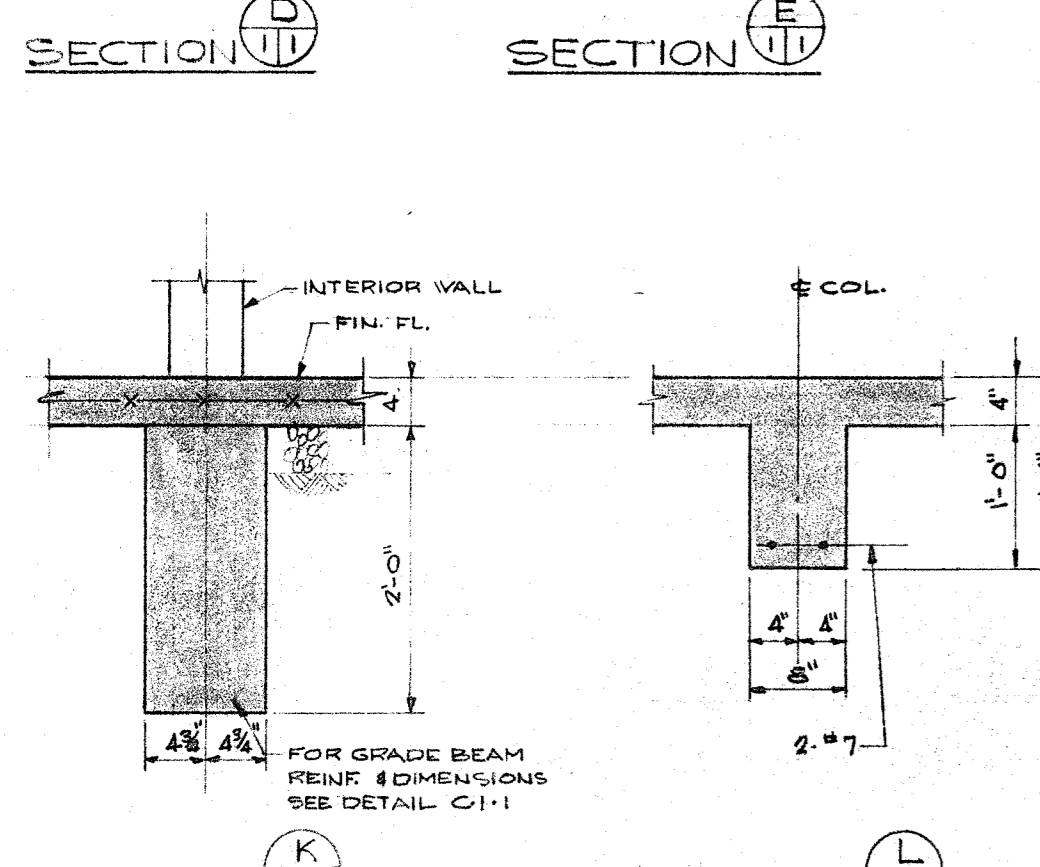
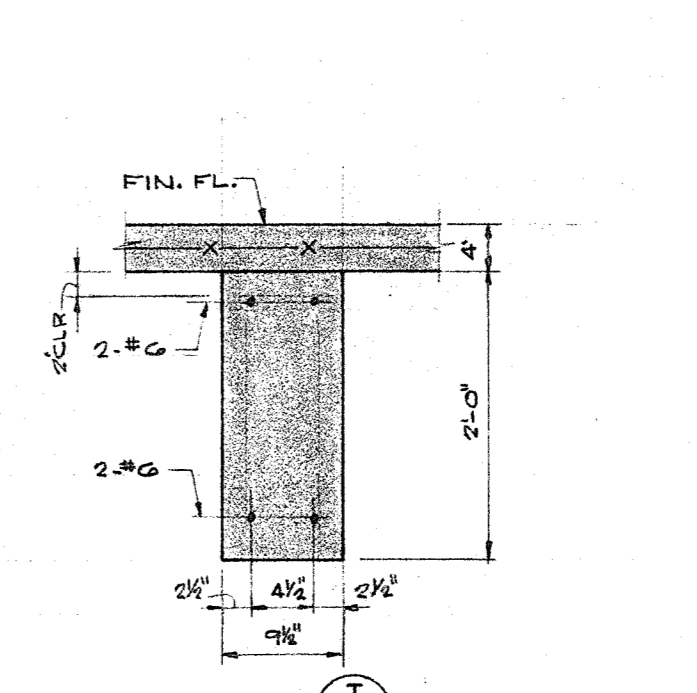
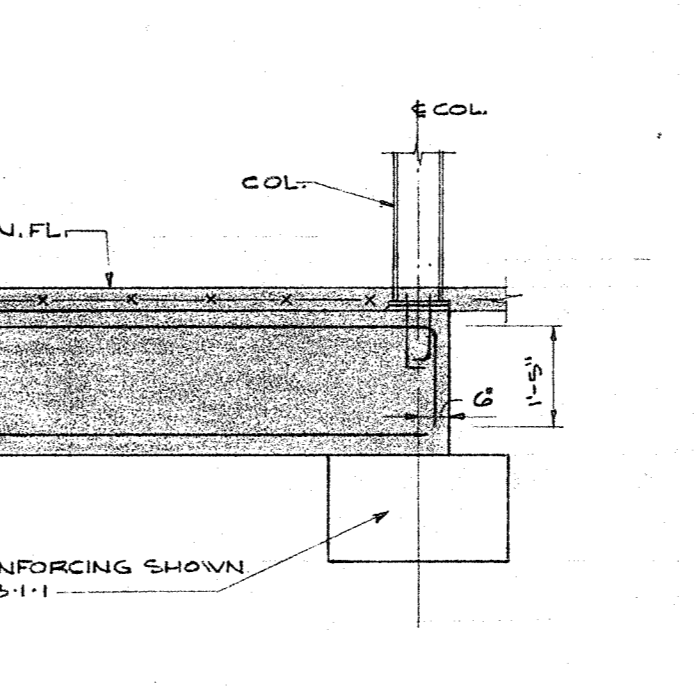
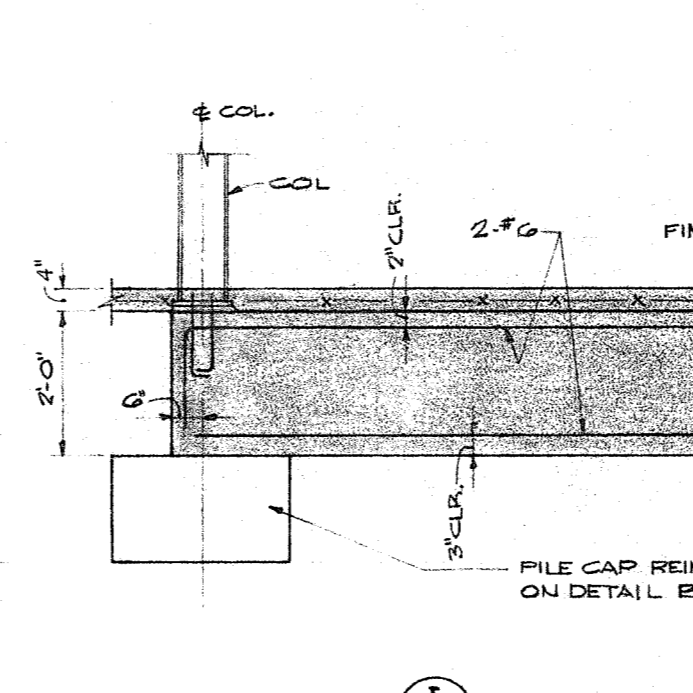
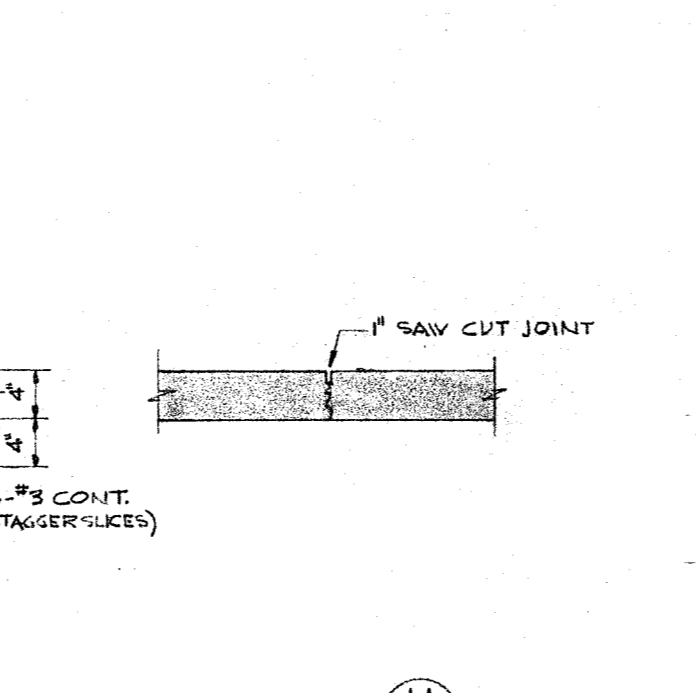
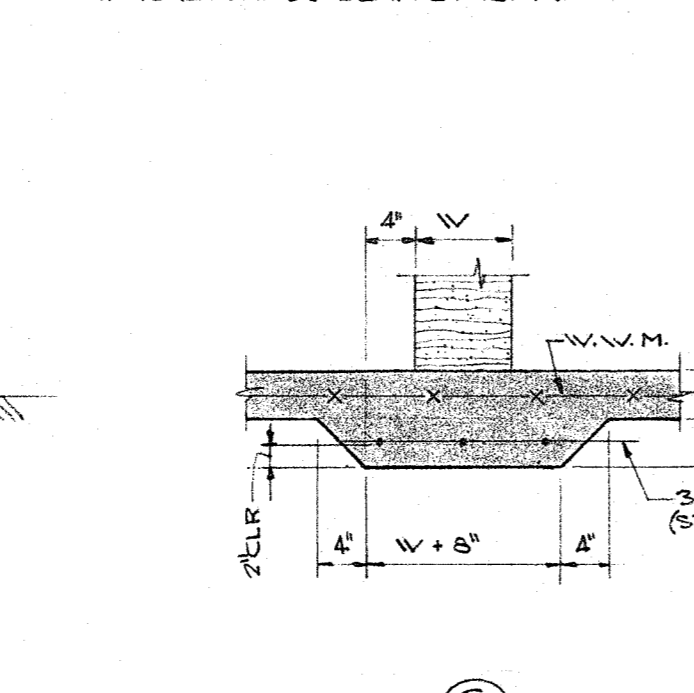
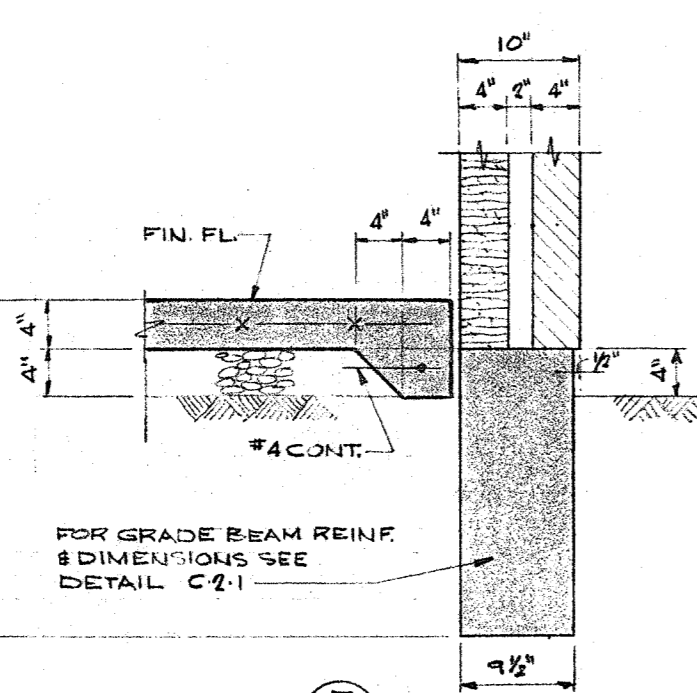
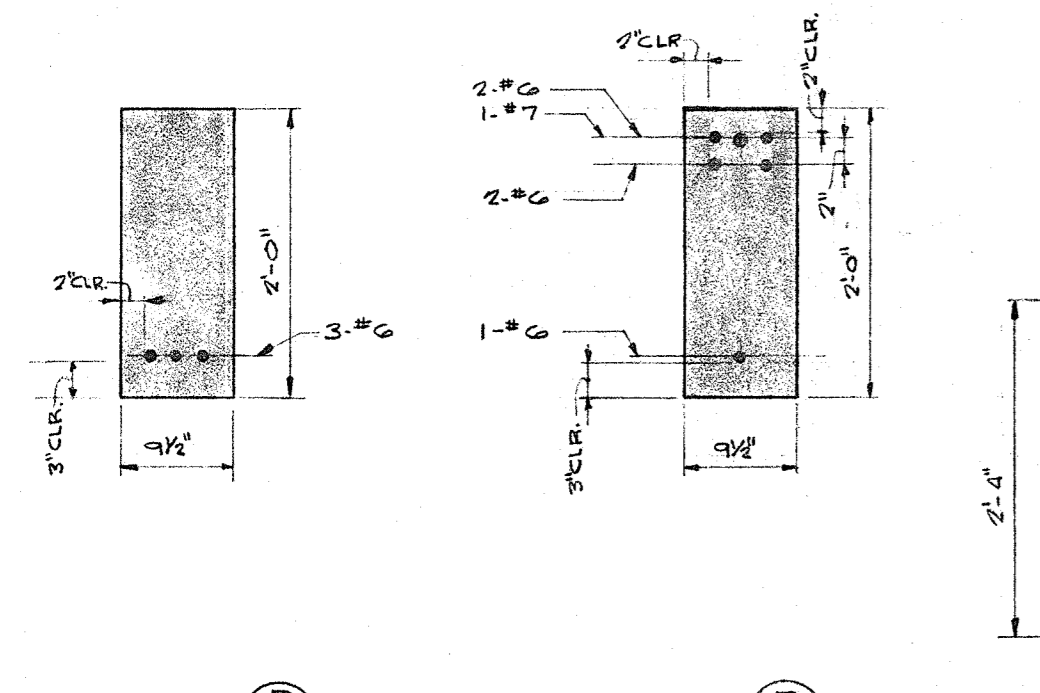


FOUNDATION PLAN SCALE 1/8" = 1'-0"
FINISH FLOOR AT ELEVATION 24.00 FEET.
ALL PEDESTALS ARE 10" X 10" AND REINFORCED WITH 4 #6.

MARK	SIZE	DEPTH	REIN. E.A. WAY
A	3'-0" x 3'-0"	10"	3 #4 SPC EQUALLY
B	3'-6" x 5'-0"	10"	4 #4 SPC EQUALLY
C	4'-0" x 4'-0"	10"	5 #4 SPC EQUALLY

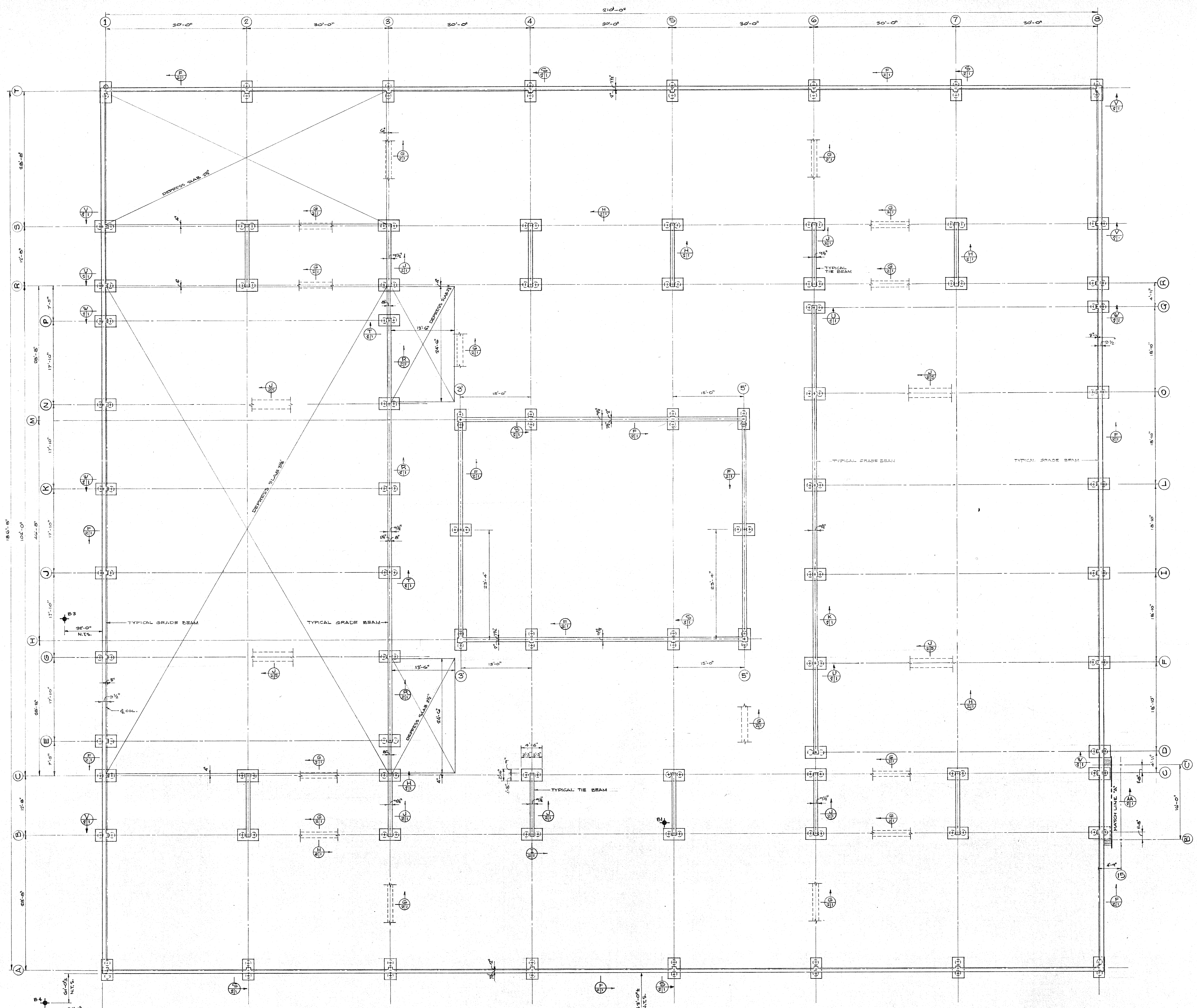


DETAIL A SCALE 3/8" = 1'-0"
TYPICAL GRADE BEAM DIAGRAM



- MISCELLANEOUS NOTES**
- ALL SECTIONS ON STRUCTURAL DRAWINGS ARE DRAWN TO 3/8" = 1'-0" UNLESS OTHERWISE NOTED.
 - STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING FIELD CONDITIONS BEFORE PROCEEDING WITH CONSTRUCTION.
 - ALL CONCRETE BLOCK ON STRUCTURAL FLOOR OR ON STRUCTURAL MEMBERS SHALL HAVE LIGHT WEIGHT AGGREGATE.
 - WHERE ANCHOR BOLTS ARE SET IN MASONRY WALLS, CONCRETE BLOCK CELLS SHALL BE FILLED WITH CONCRETE FOR TWO COURSES BELOW R ELEVATION.
 - CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE (LATEST EDITION).
 - DEPRESS SLABS FOR QUARRY TILE ETC. AS REQUIRED BY ARCHT DWGS.
 - ALL ABBREVIATIONS ARE AS LISTED IN THE ARCHITECTURAL GRAPHIC STANDARDS.
 - ALL BULLETS SHALL BE WELDED TO THE SUPPORTING STRUCTURAL MEMBER WITH A MINIMUM OF 1" OF 1/2" WELD ON EACH SIDE.

ELEVATION	TEST BORING LOG					
	1	2	3	4	5	6
100'-0"	1	2	3	4	5	6
90'-0"	1	2	3	4	5	6
80'-0"	1	2	3	4	5	6
70'-0"	1	2	3	4	5	6
60'-0"	1	2	3	4	5	6
50'-0"	1	2	3	4	5	6
40'-0"	1	2	3	4	5	6
30'-0"	1	2	3	4	5	6
20'-0"	1	2	3	4	5	6
10'-0"	1	2	3	4	5	6
0'-0"	1	2	3	4	5	6



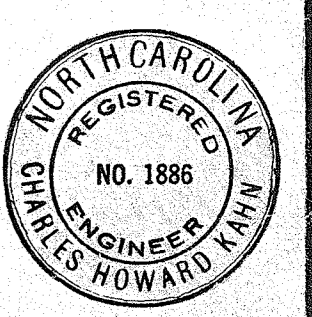
FOUNDATION PLAN SCALE 1/8"=1'-0"
 FINISH FLOOR AT ELEVATION 24.67 FEET.
 ELEVATION AT TOP OF PILE CAP 22.33 FEET.

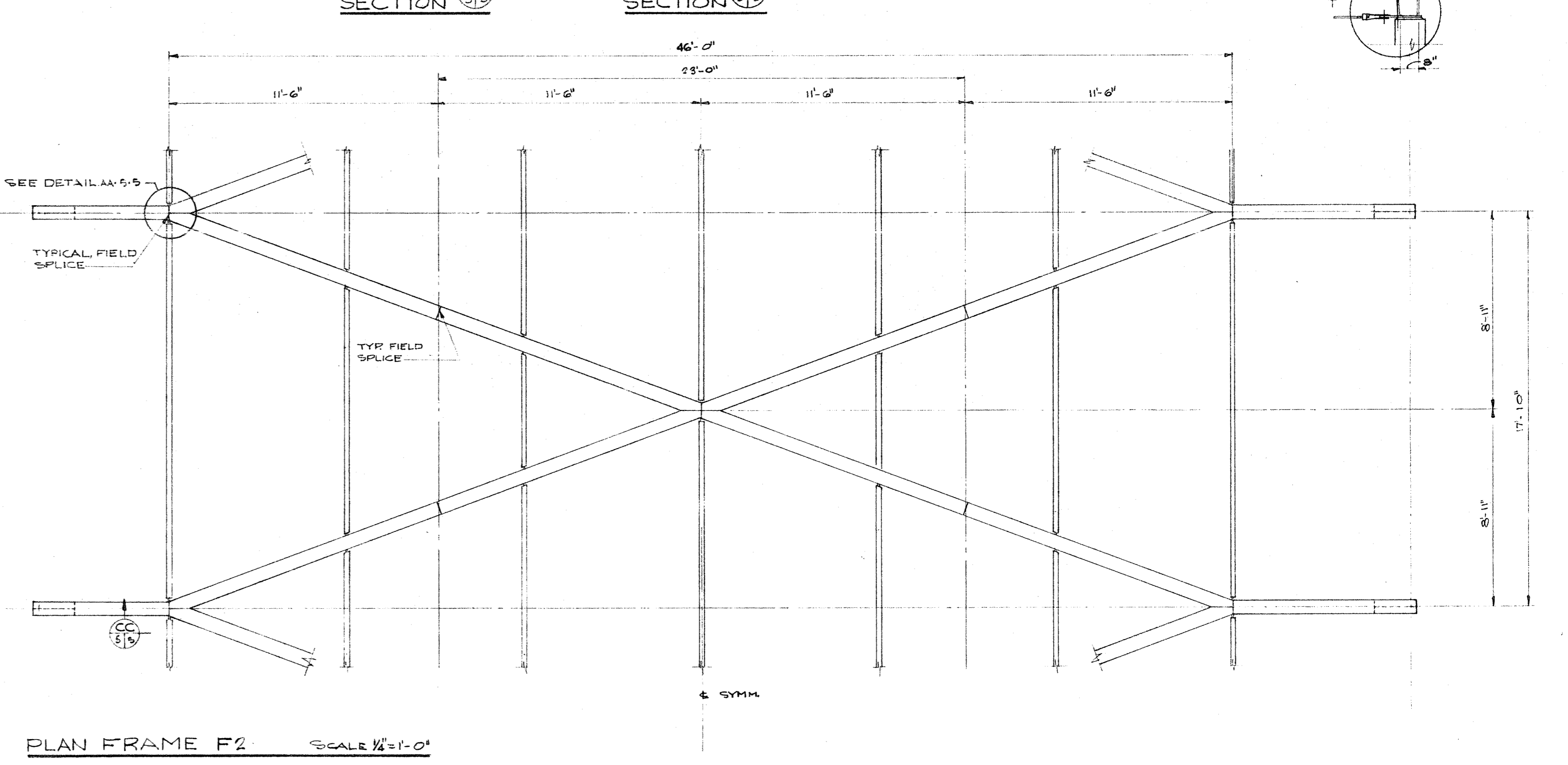
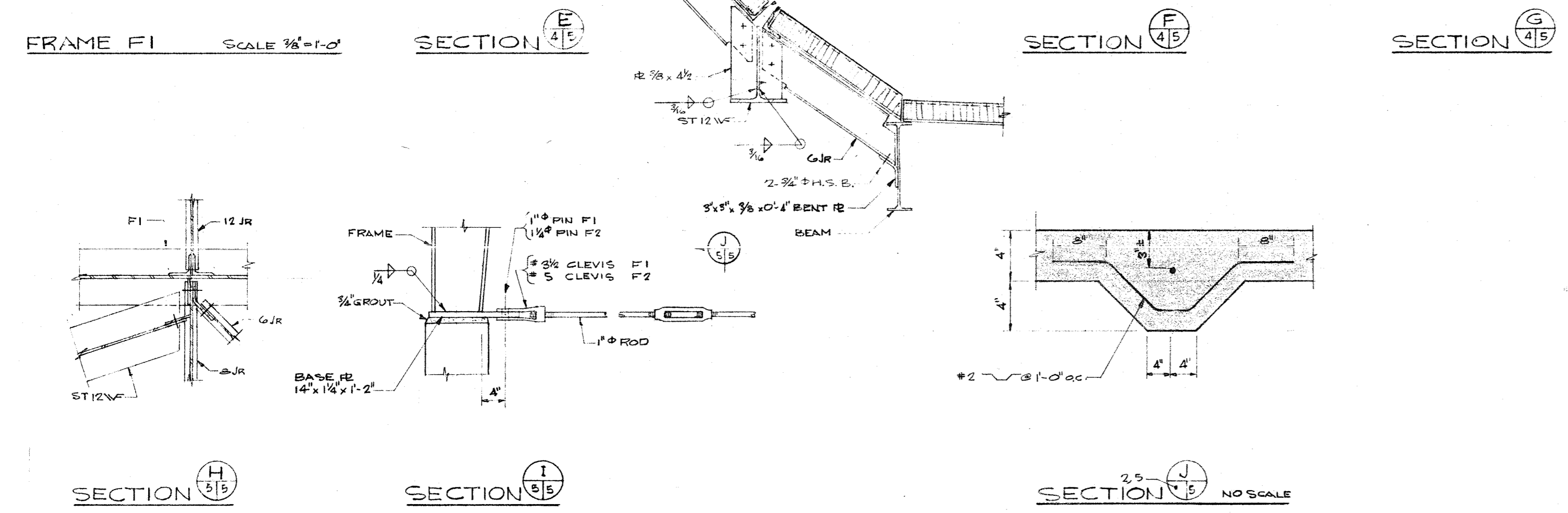
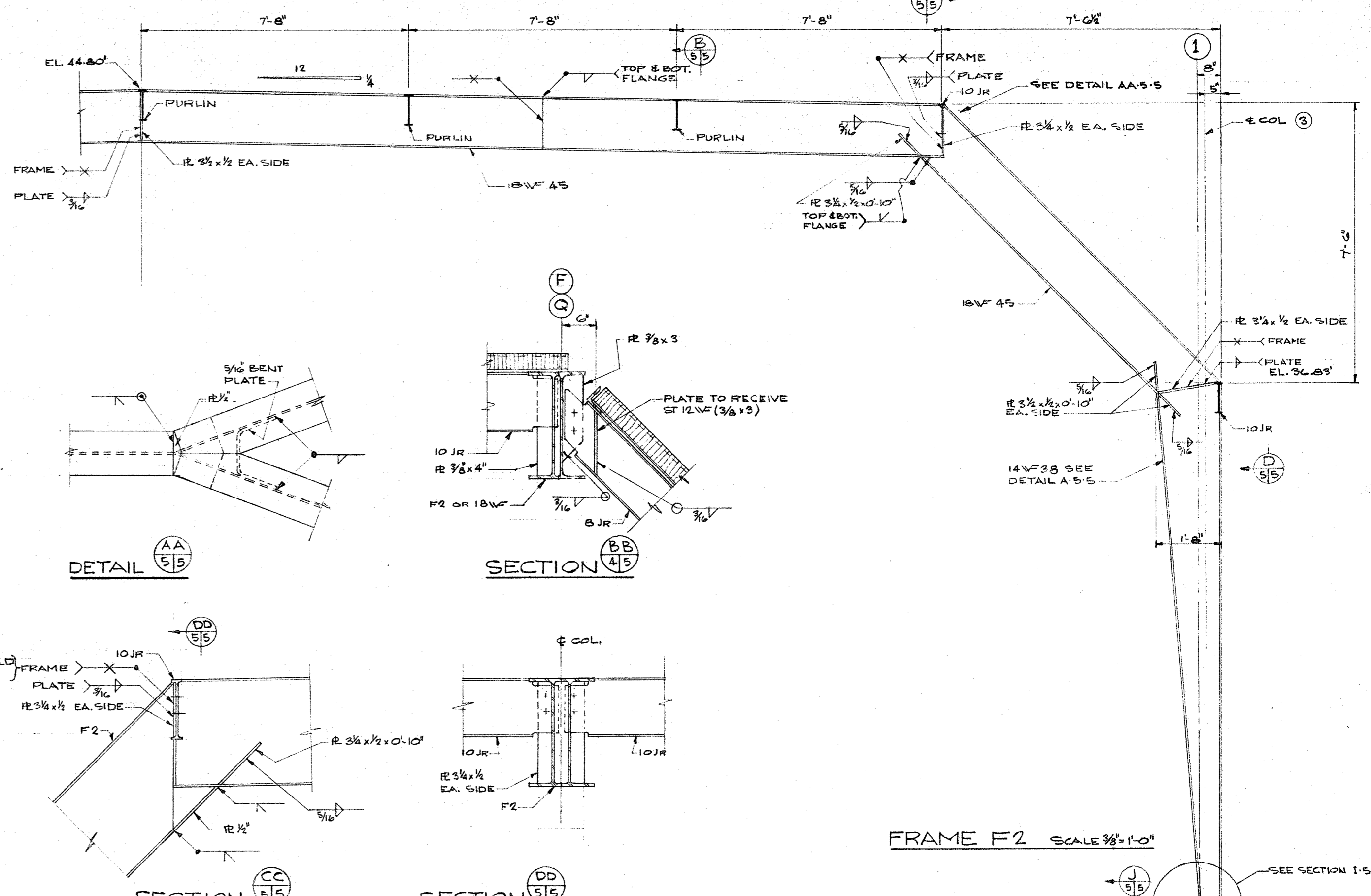
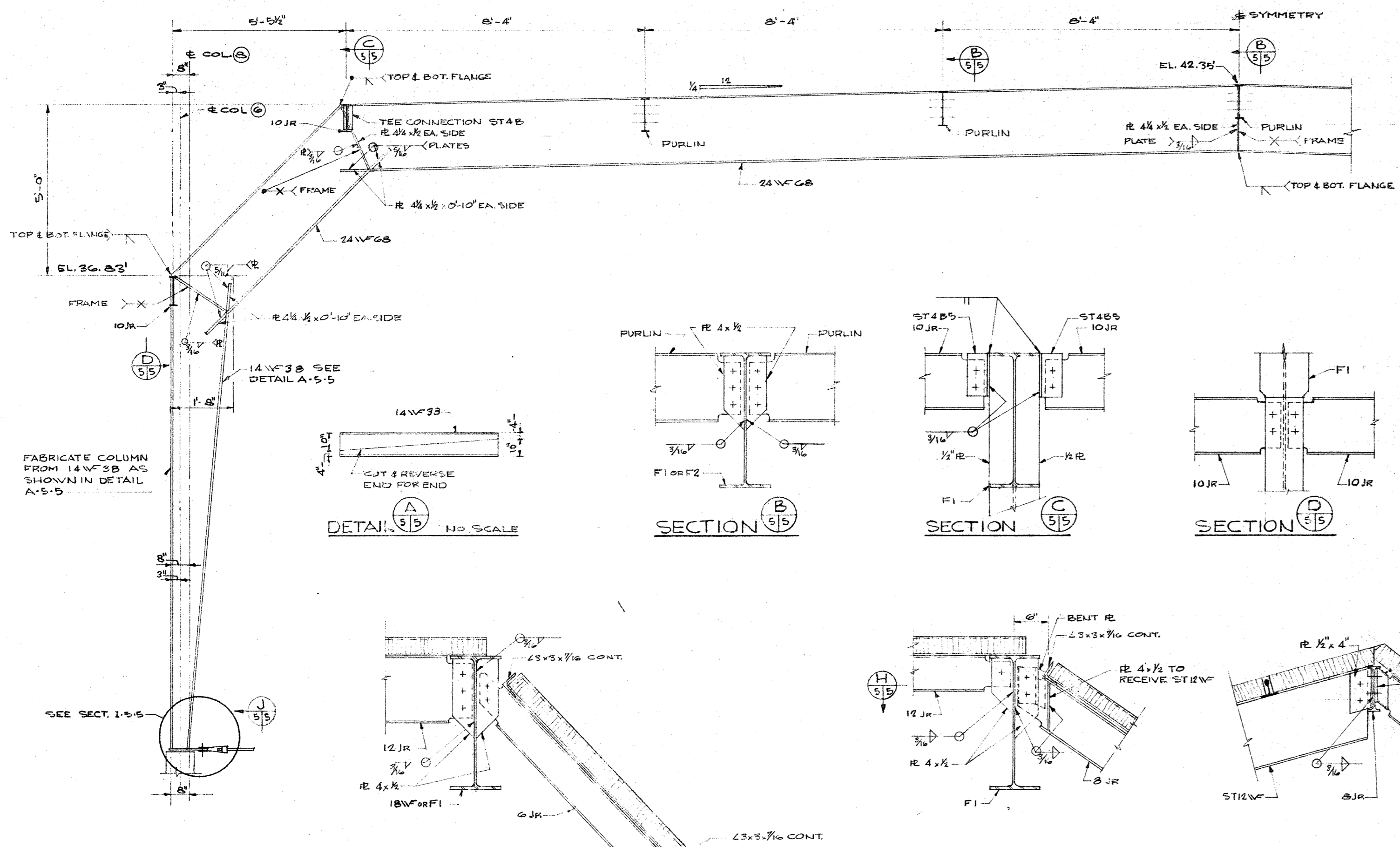
JOB NO.
 DATE 9-24-65
 DRAWN BY HMA

THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA
 CHARLES H. KAHN AND ASSOCIATES, STRUCTURAL ENGINEERS, RALEIGH, N.C.

ONSLOW COUNTY BOARD OF EDUCATION
 JAMES D. PIVER, CHAIRMAN
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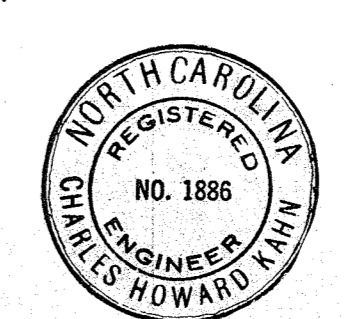
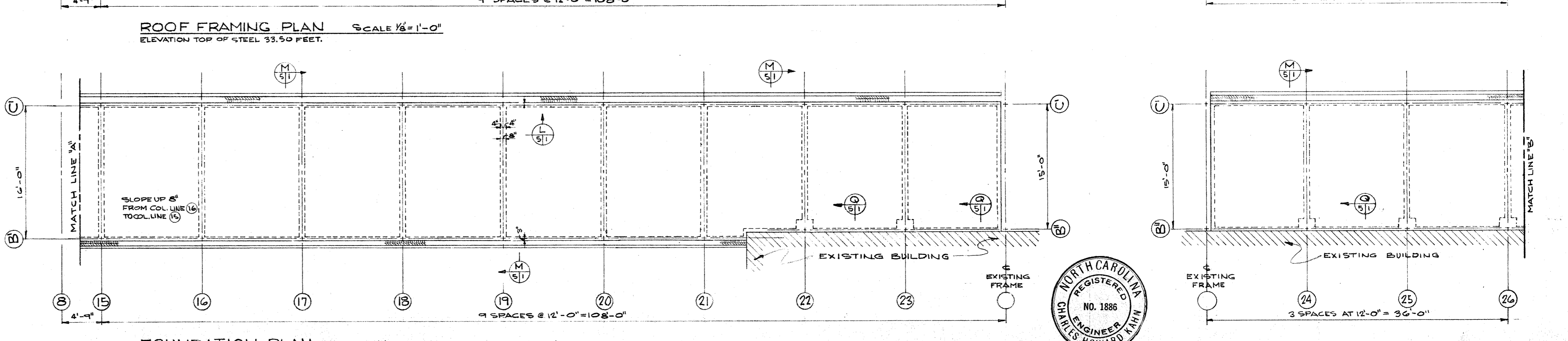
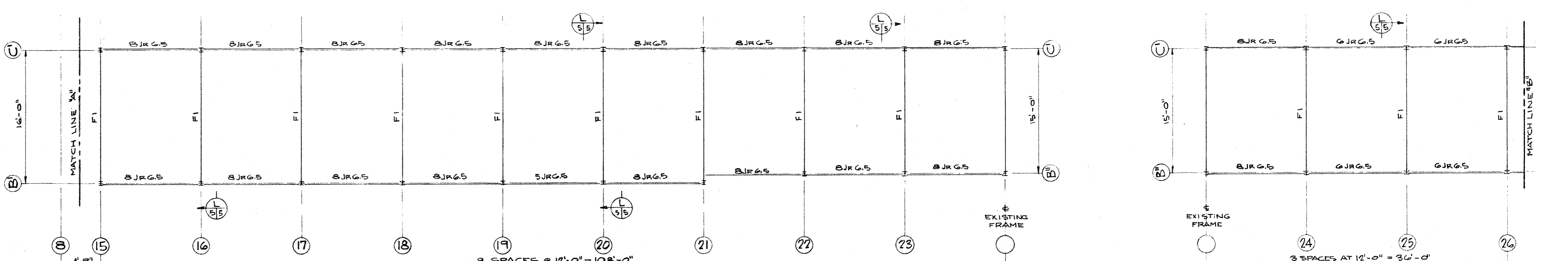
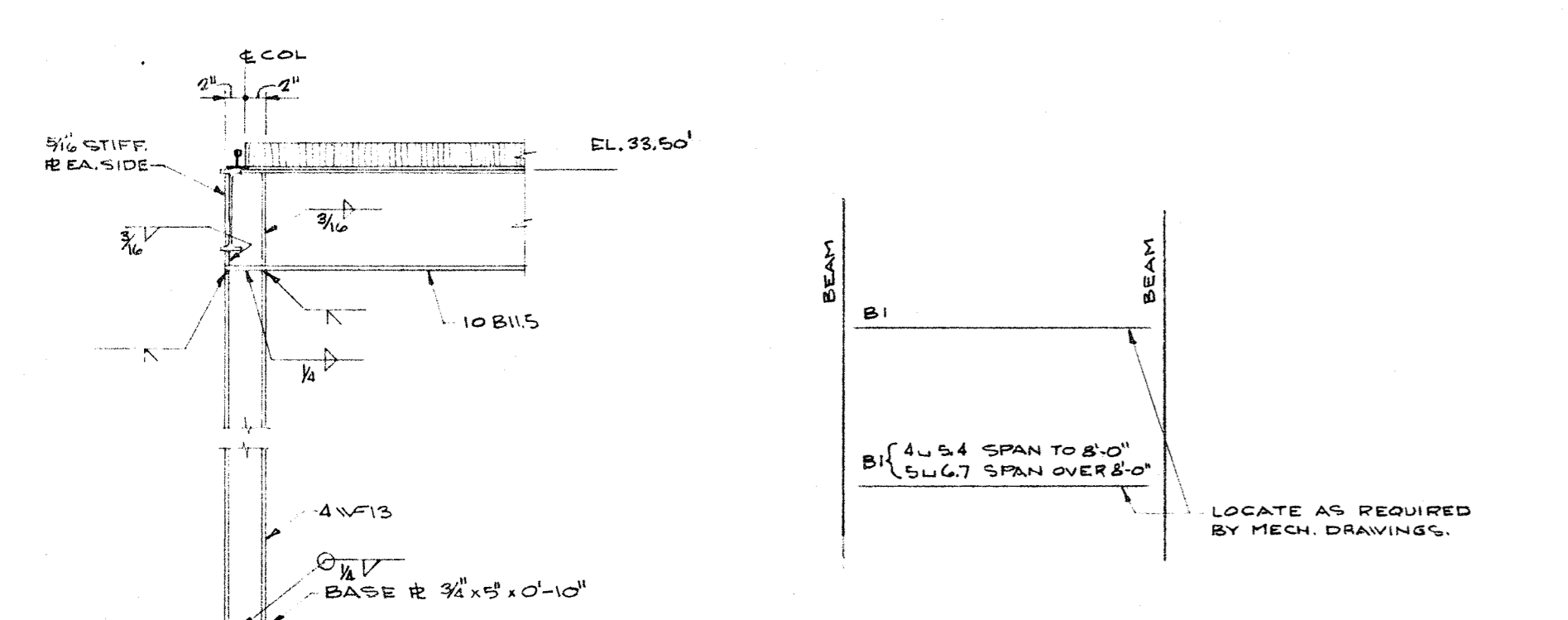
FEDERAL PROJECT NO. N.C. 64-C-7A14
 NORTHWOODS PARK SCHOOL PHASE II
 JACKSONVILLE, NORTH CAROLINA



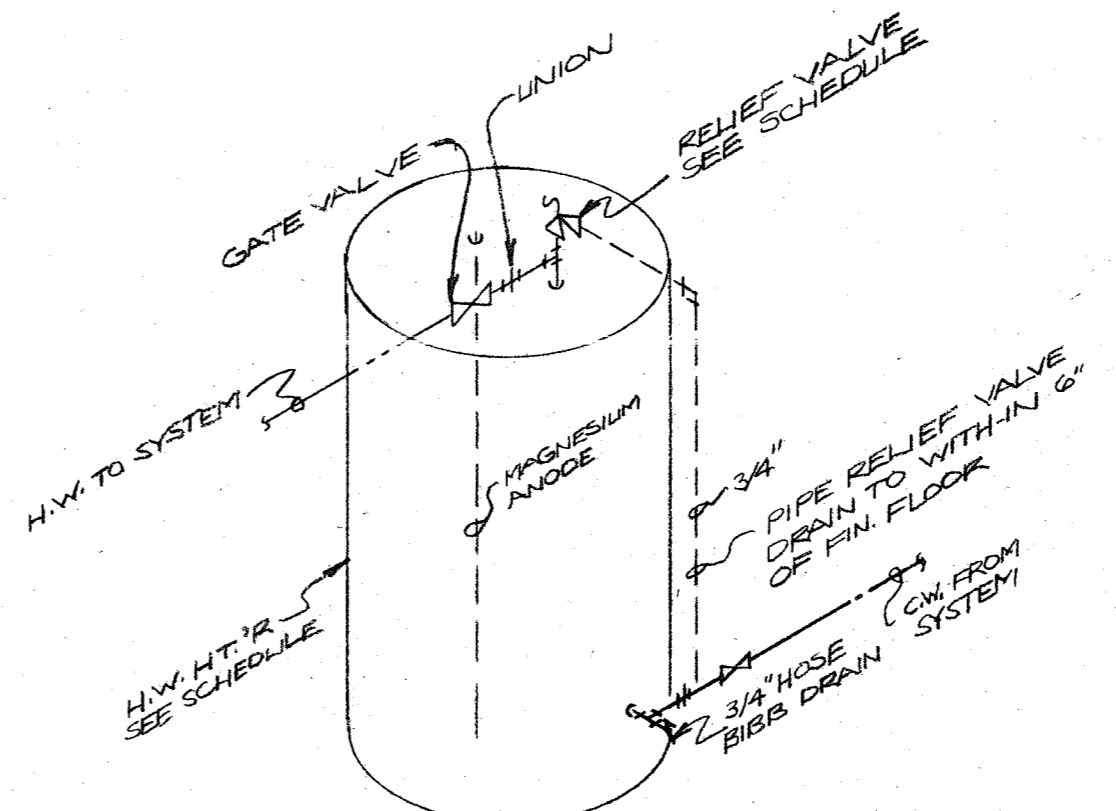
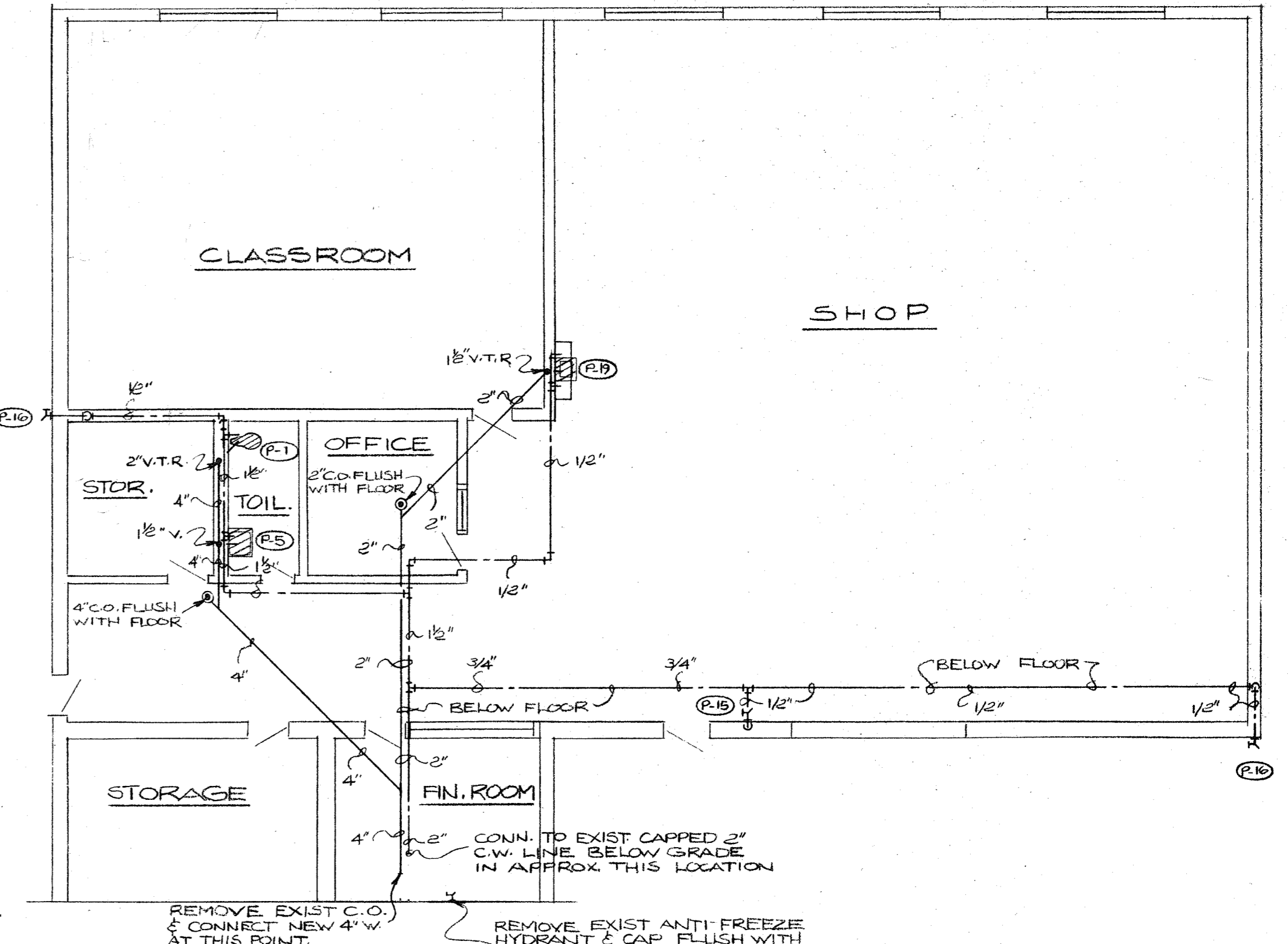
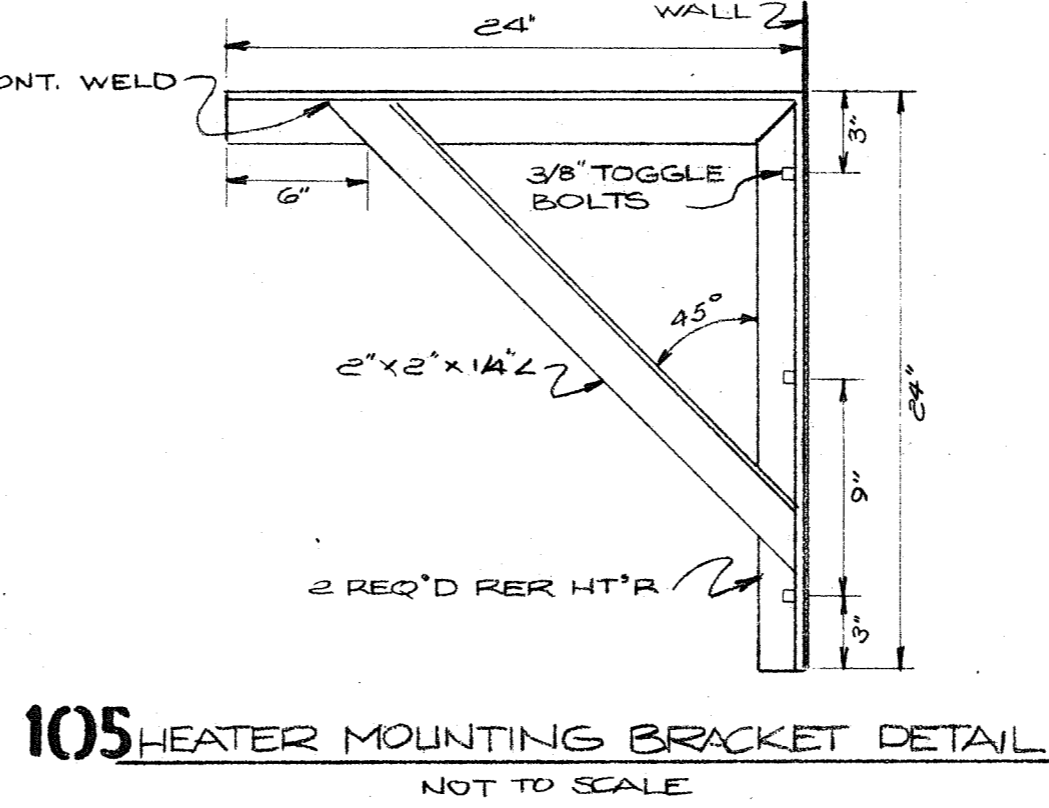
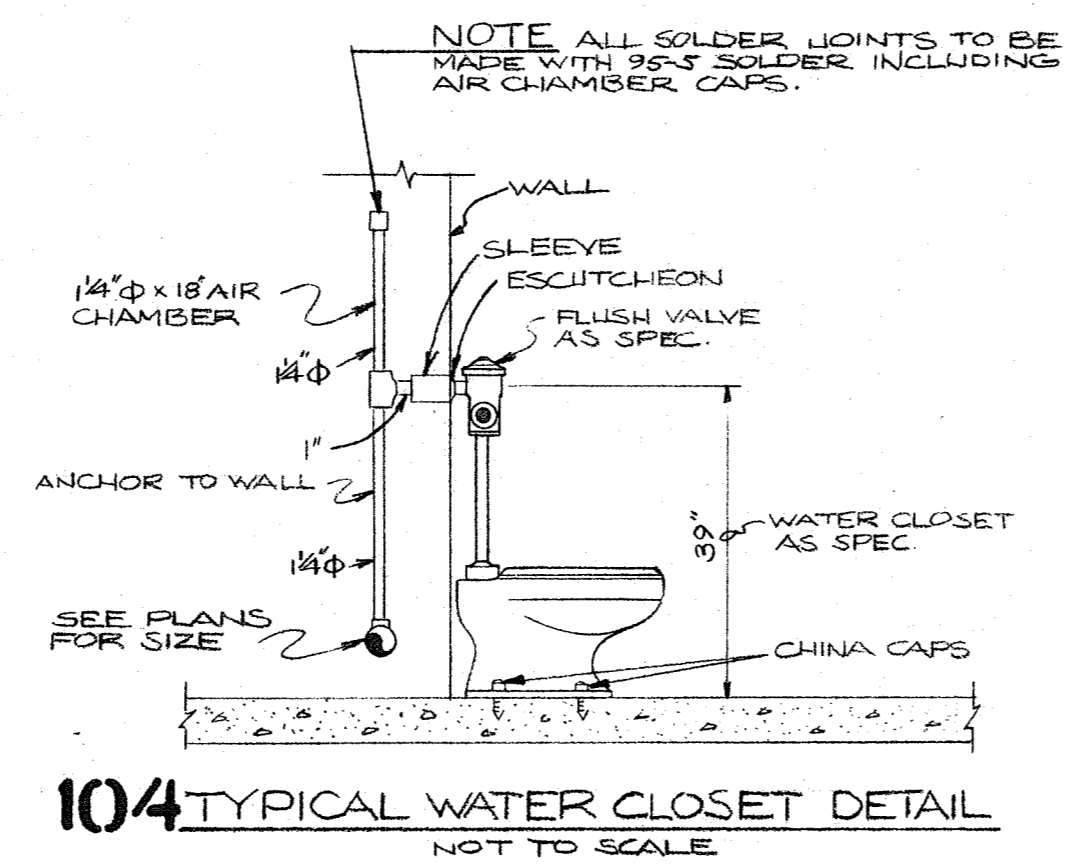
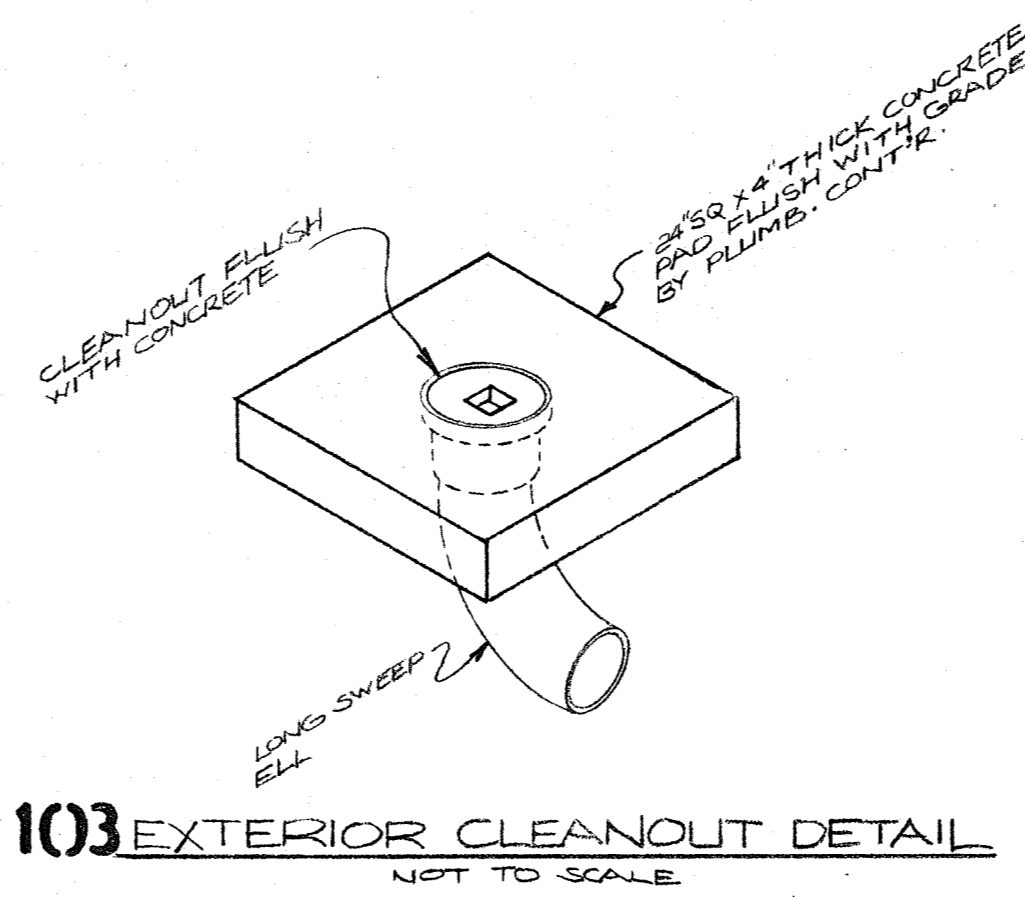


FRAME F1 AND F2 NOTES

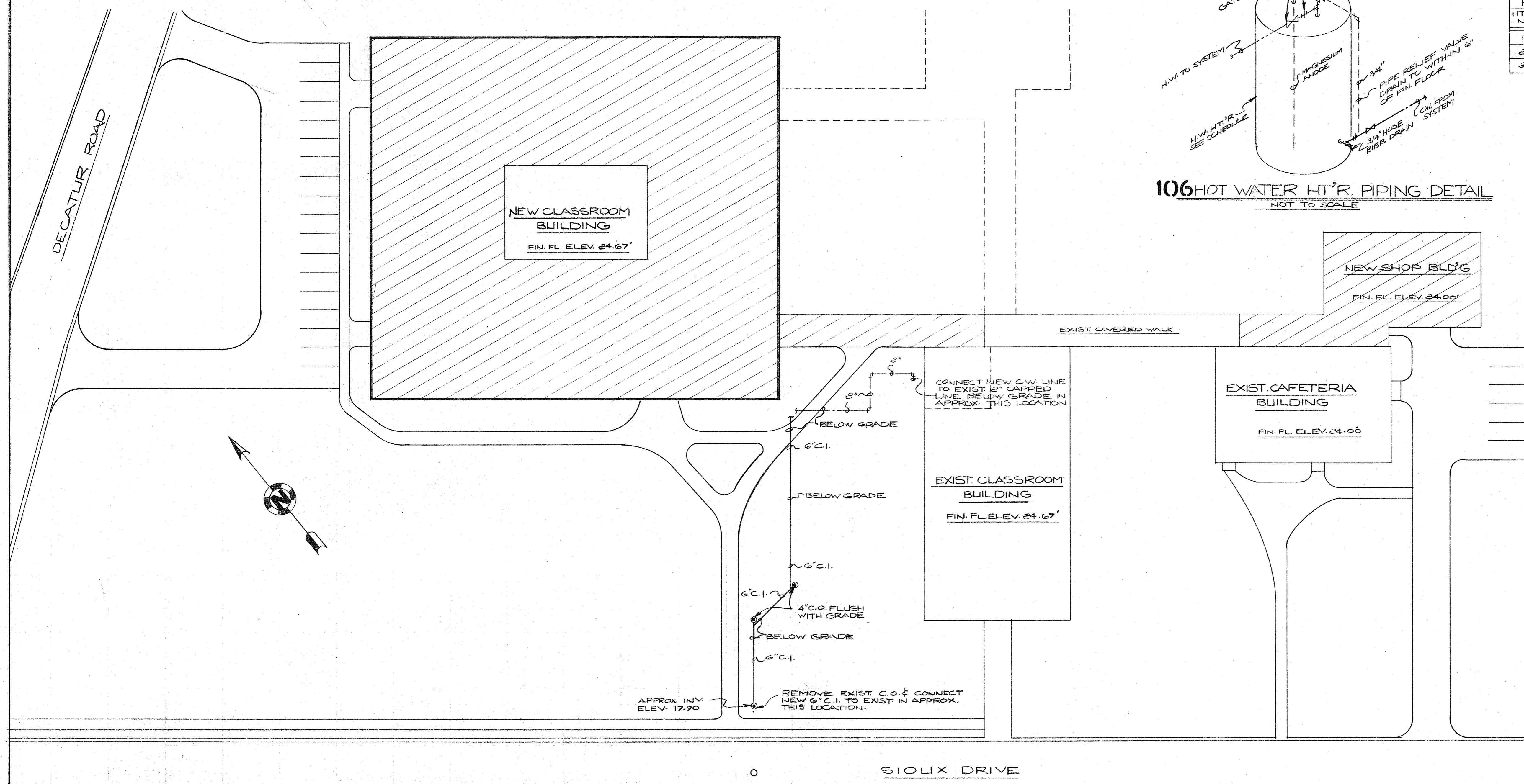
1. FIELD SPICES AT JOINTS OF COMPONENT PARTS OF FRAMES F1 & F2 (SEE DETAILS) ARE TO BE PERFORMED ON THE GROUND. THE FRAMES SHALL BE SUPPORTED SUCH THAT NO STRESSES EXIST IN THESE MEMBERS DURING WELDING OPERATIONS.
2. THE STRUCTURAL STEEL FABRICATOR SHALL BE RESPONSIBLE FOR THE FIELD WELDING OF THE SPICES. COPIES OF THE WELDERS' CERTIFICATE SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO ANY WELDING.
3. FIELD RADIOGRAPHIC INVESTIGATION BY AN INDEPENDENT TESTING LABORATORY SHALL BE PERFORMED ON FIFTEEN (15) SPICE JOINTS TO BE SELECTED AT RANDOM BY THE ARCHITECT. THE RESULTS OF THE INVESTIGATION SHALL BE SUBMITTED IN TRIPPLICATE TO THE ARCHITECT. THE GENERAL CONTRACTOR SHALL BEAR THE EXPENSE OF THE FIRST FIFTEEN RADIOGRAPHIC INVESTIGATIONS. IF ANY WELDS ARE FOUND TO BE DEFECTIVE RADIOGRAPHIC INVESTIGATIONS SHALL BE PERFORMED ON ALL THE REMAINING SPICE JOINTS. ALL DEFECTIVE WELDS SHALL BE REPERFORMED AS REQUIRED BY THE ARCHITECT. THE COST OF ALL ADDITIONAL RADIOGRAPHIC INVESTIGATION AND ALL REPAIRS TO DEFECTIVE WELDS SHALL BE BORNE BY THE STRUCTURAL STEEL FABRICATOR.



PLUMBING FIXTURE SCHEDULE					
MARK	DESCRIPTION	WASTE	C.W.	H.W.	REMARKS
P-1	WATER CLOSET	4"	1 1/2"	—	R.V. MT. HT. 39"±
P-2	URINAL	2"	3/4"	—	
P-3	LAVATORY	1 1/2"	1/2"	—	
P-4	LAVATORY	1 1/2"	1/2"	1/2"	
P-5	SERVICE SINK	3"	1/2"	—	
P-6	DRINKING FOUNTAIN	1 1/4"	1/2"	—	
P-7	ELECTRIC WATER COOLER	1 1/4"	1/2"	—	
P-8	SHOWER	—	1/2"	1/2"	
P-9	COUNTERTOP SINK	1 1/2"	1/2"	1/2"	
P-10	COUNTERTOP SINK	1 1/2"	1/2"	—	
P-11	SHOWER DRAIN	2"	—	—	
P-12	SHOWER DRAIN	4"	—	—	
P-13	FLOOR DRAIN	3"	—	—	
P-14	FLOOR DRAIN	3"	—	—	
P-15	HOSE BIBB	—	1/2"	—	
P-16	ANTI-FREEZE HYDRANT	—	1/2"	—	
P-17	COUNTERTOP LAVATORY	1 1/2"	1/2"	1/2"	
P-18	DWYER UNIT	1 1/2"	1/2"	1/2"	
P-19	HANDWASH SINK	1 1/2"	1/2"	1/2"	
P-20	GAS COCK	—	—	1/2" I.P.S., SEE SPEC.	
P-21	KITCHEN SINK	1 1/2"	1/2"	1/2"	WITH DISPOSAL
P-22	WASHER CONNECTION UNIT	2"	1/2"	1/2"	
P-23	DISHWASHER	1"	—	1/2"	BY OWNER



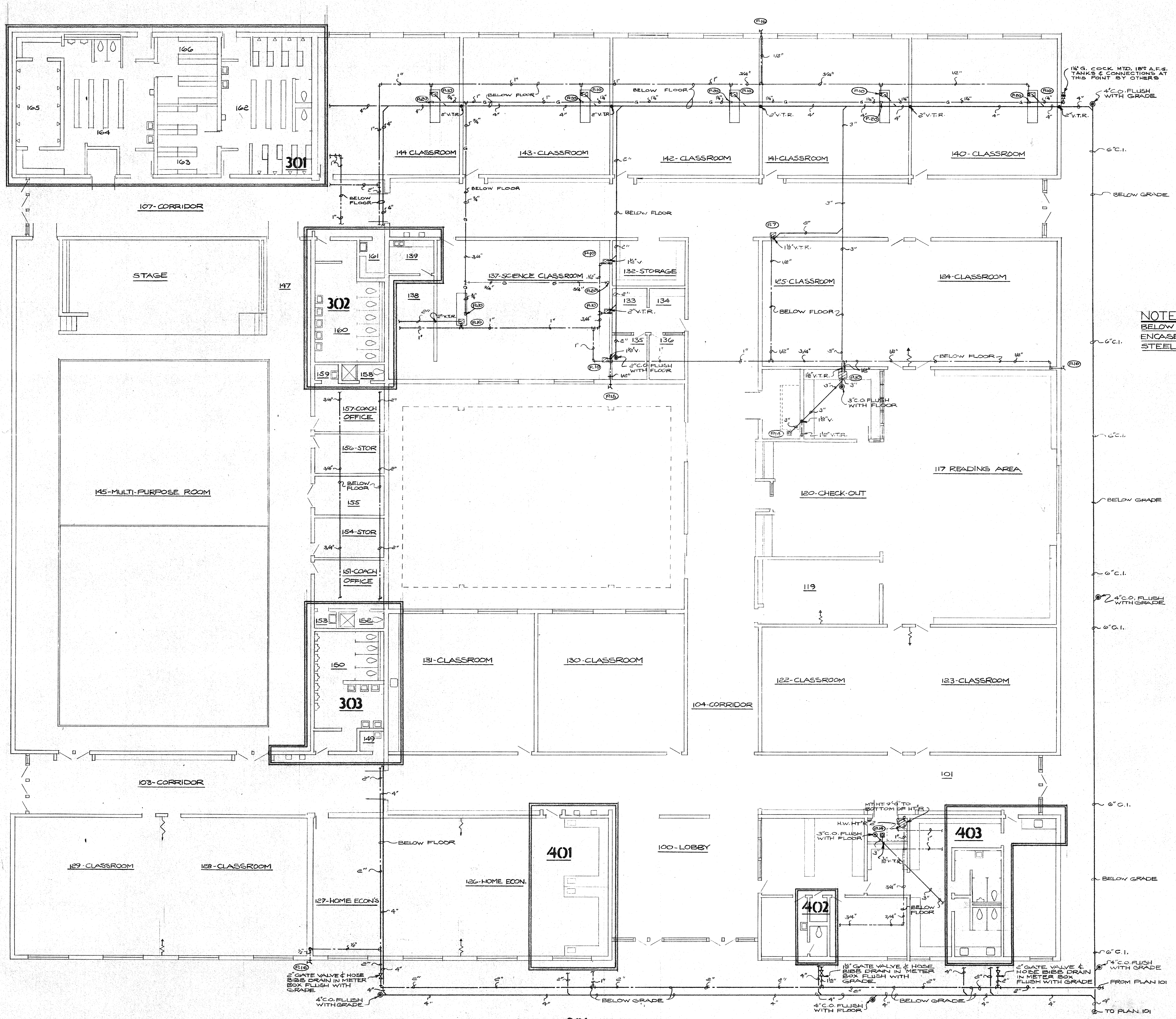
HOT WATER HEATER SCHEDULE					
HT'R. NO.	NOMINAL CAPACITY	TOTAL KW INPUT	VOLTAGE & PHASE	RELIEF VALVE SIZE	REMARKS
1	1000 GAL.	90 KW.	208V. 3Ø	3/4"	777.6MBH COATES 1000G-32090T
2	12 GAL.	1.5 KW.	120V. 1Ø	3/4"	80.0MBH JACKSON GTR-12
3	30 GAL.	5 KW.	208V. 1Ø	3/4"	80.0MBH JACKSON GB3-D



LEGEND	
W	WASTE PIPING
V	VENT PIPING
C.W.	COLD WATER PIPING
H.W.	HOT WATER PIPING
G	GAS PIPING
V.T.R.	VENT THRU ROOF
C.O.	CLEANOUT
C.I.	CAST IRON
T.C.	TERRA COTTA
CONC.	CONCRETE
A.C.	AIR CHAMBER
M.H.	MANHOLE
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE

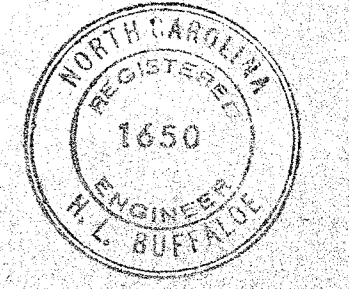
TOTAL CONNECTED LOAD		
	WASTE	COLD WATER
EXIST. BLD'G	156	111
NEW BLD'G	370	360
TOTAL FIXTURE UNITS	526	471

101 SITE PLAN
SCALE 1"=30'-0"



NOTE: ALL GAS PIPING BELOW FLOOR TO BE ENCASED IN 2" BLACK STEEL SLEEVE

201 FLOOR PLAN
SCALE 1/8" = 1'-0"



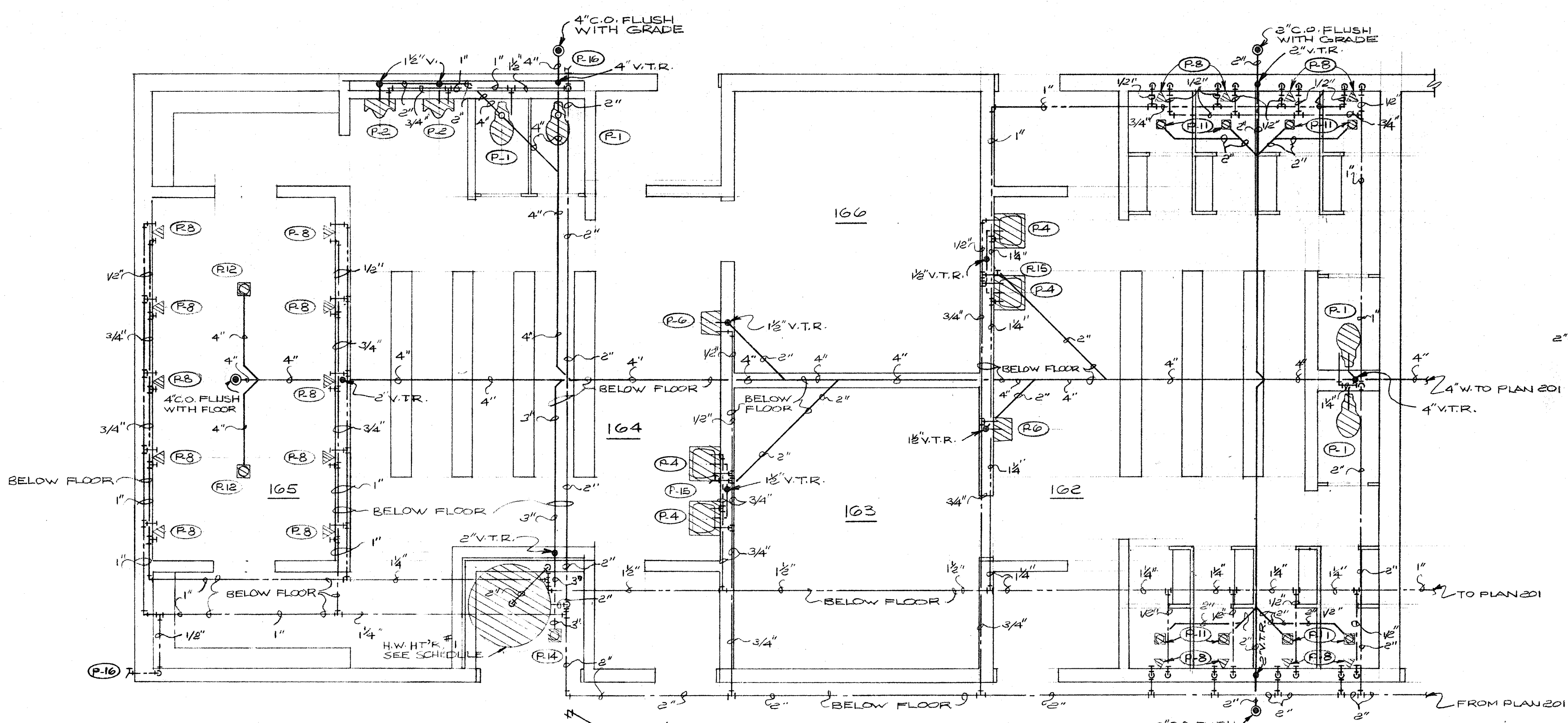
JOB NO.
DATE

THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA

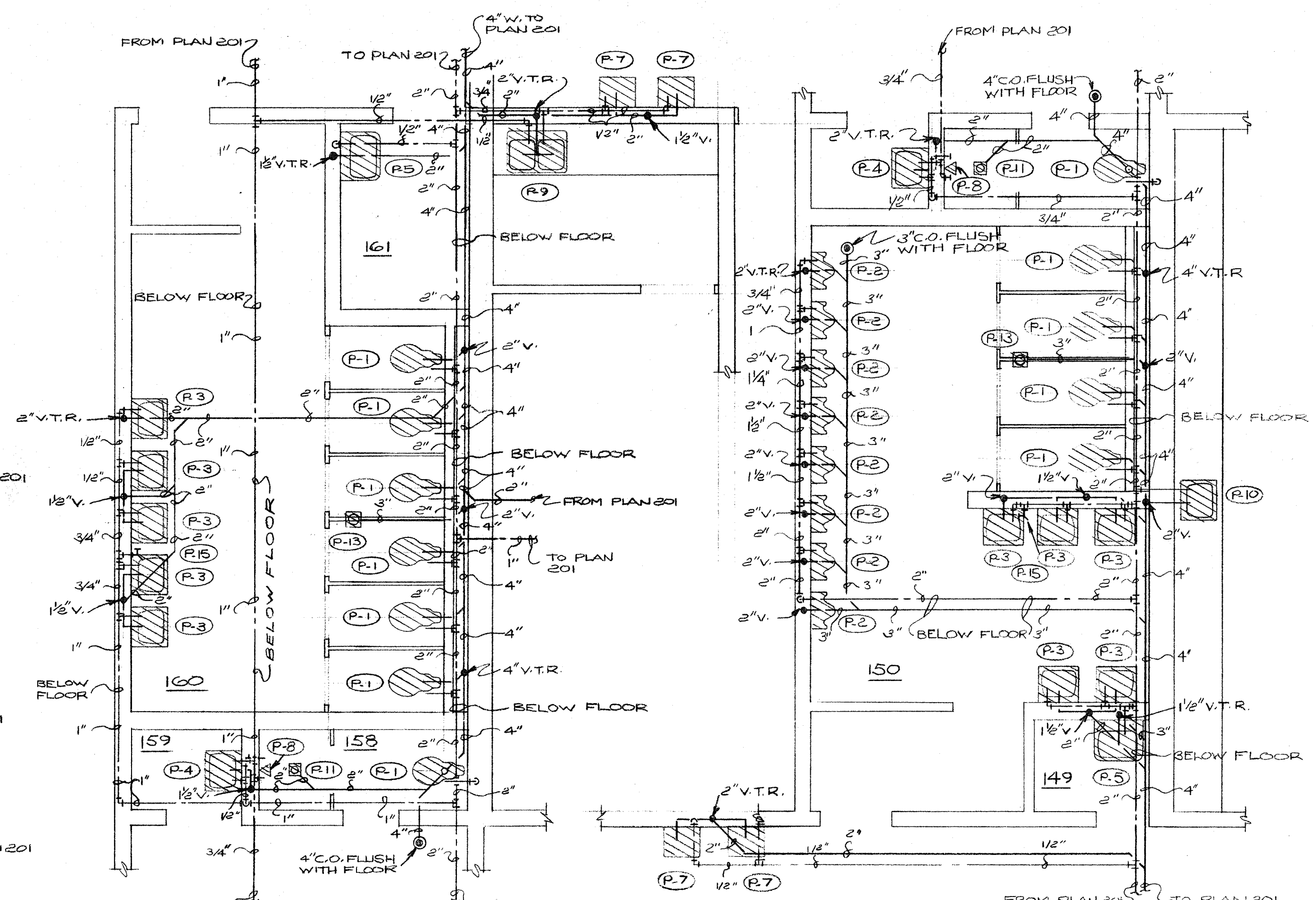
ONSLAW COUNTY BOARD OF EDUCATION
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FEDERAL PROJECT NO. N.C. 64-C-7A14

NORTHWOODS PARK SCHOOL PHASE II P.2



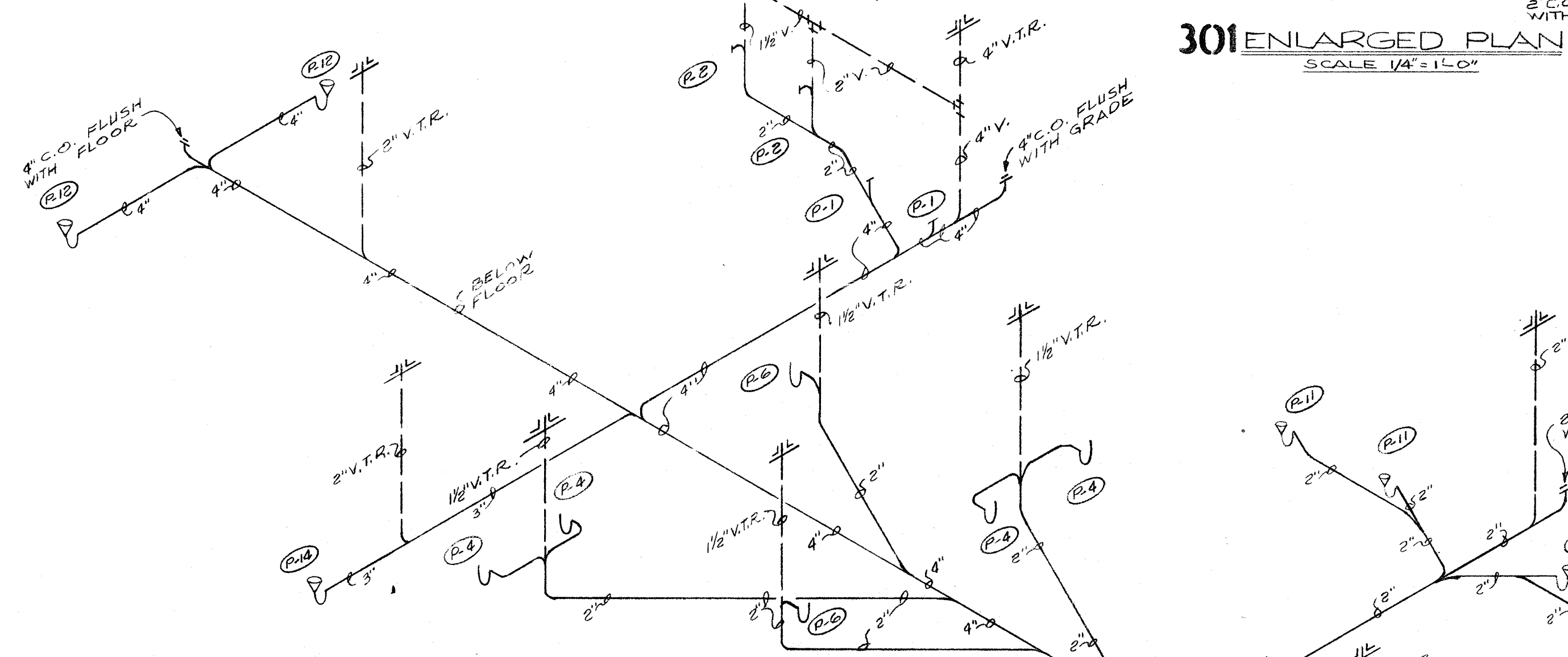
301 ENLARGED PLAN
SCALE 1/4" = 1'-0"



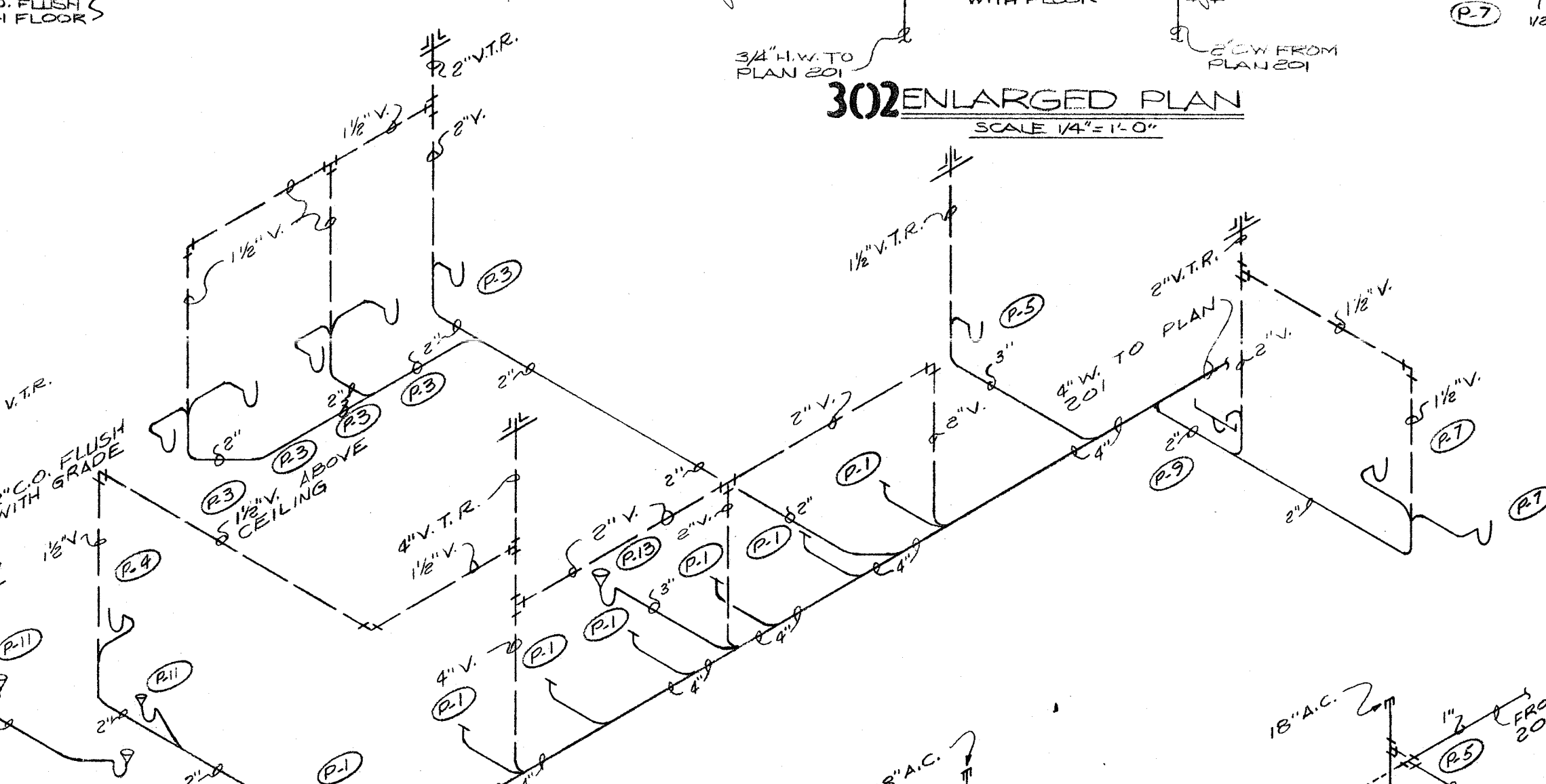
302 ENLARGED PLAN
SCALE 1/4" = 1'-0"

303 ENLARGED PLAN
SCALE 1/4" = 1'-0"

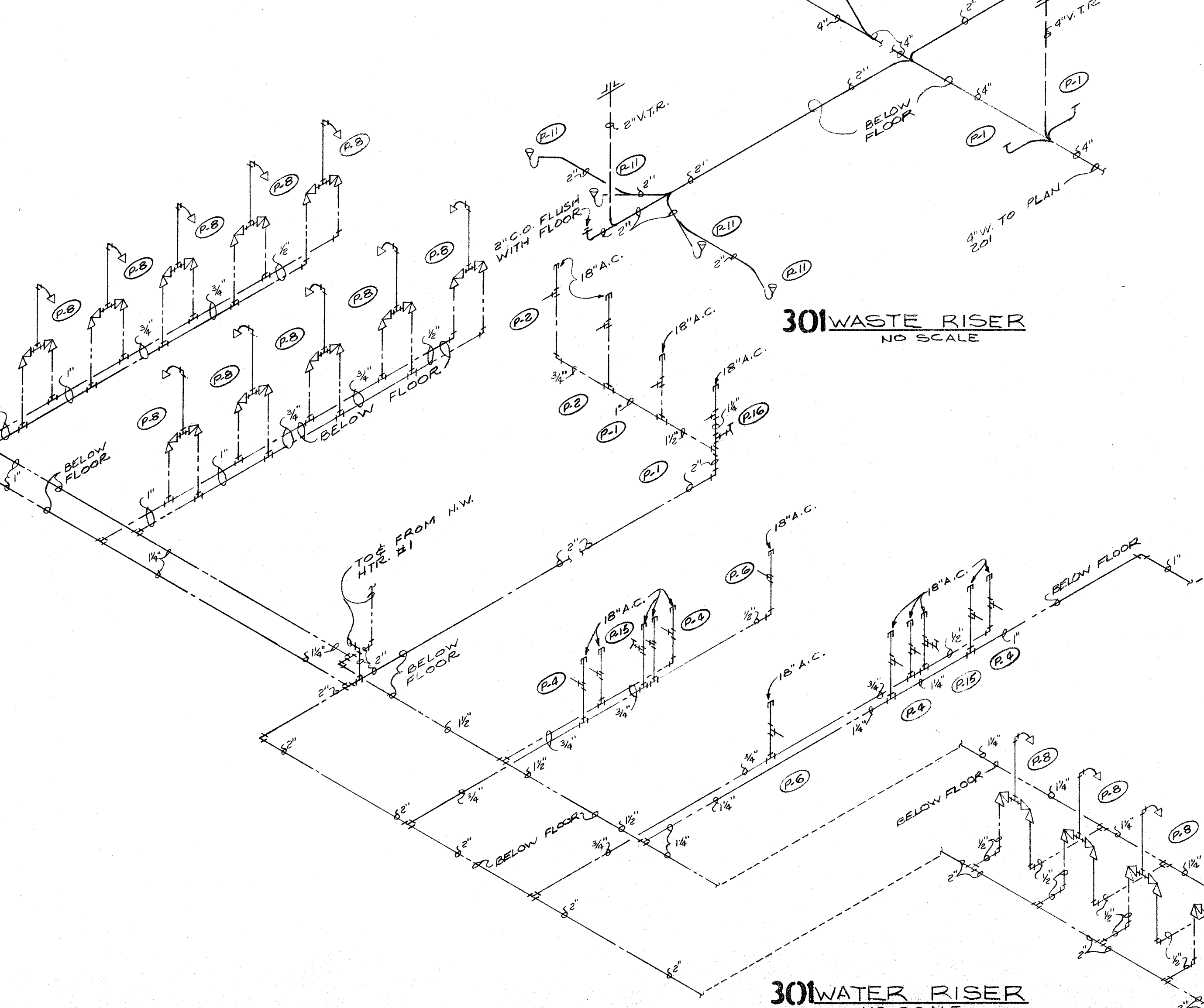
NOTE: SEE SHEET P-4 FOR RISERS



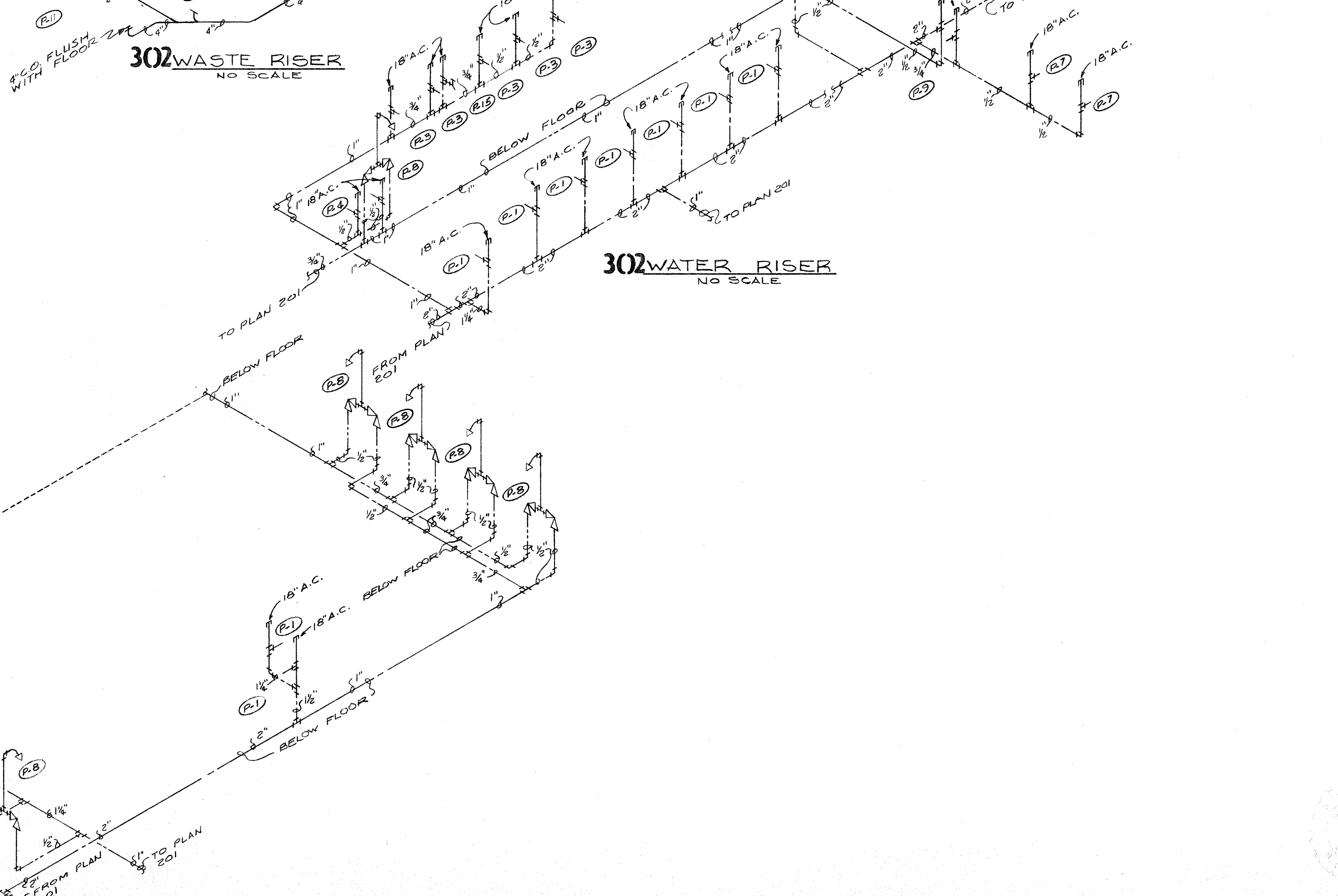
301 WASTE RISER
NO SCALE



302 WASTE RISER
NO SCALE



301 WATER RISER
NO SCALE



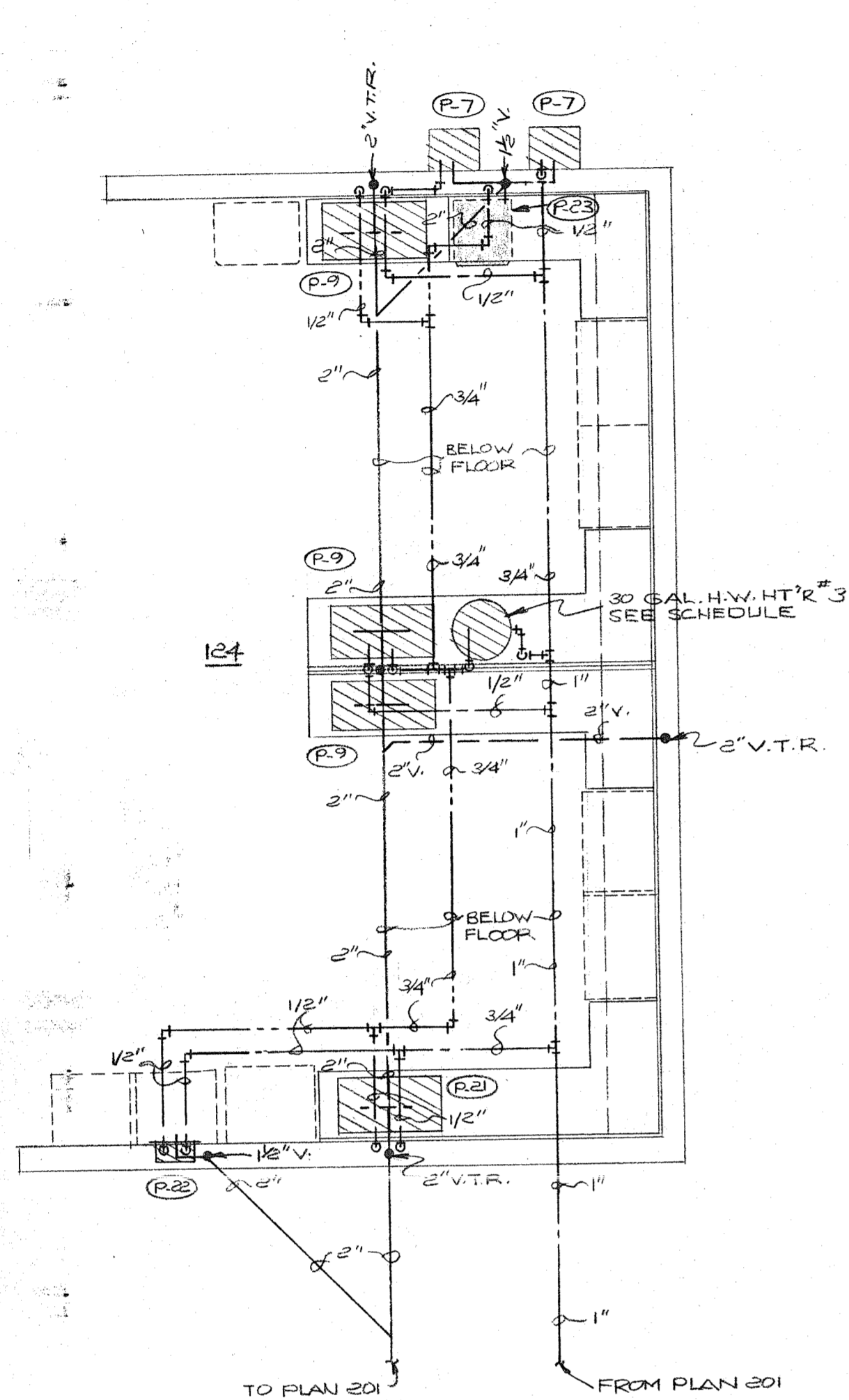
302 WATER RISER
NO SCALE

JOB NO.
DATE
DRAWN BY DHU/JGW

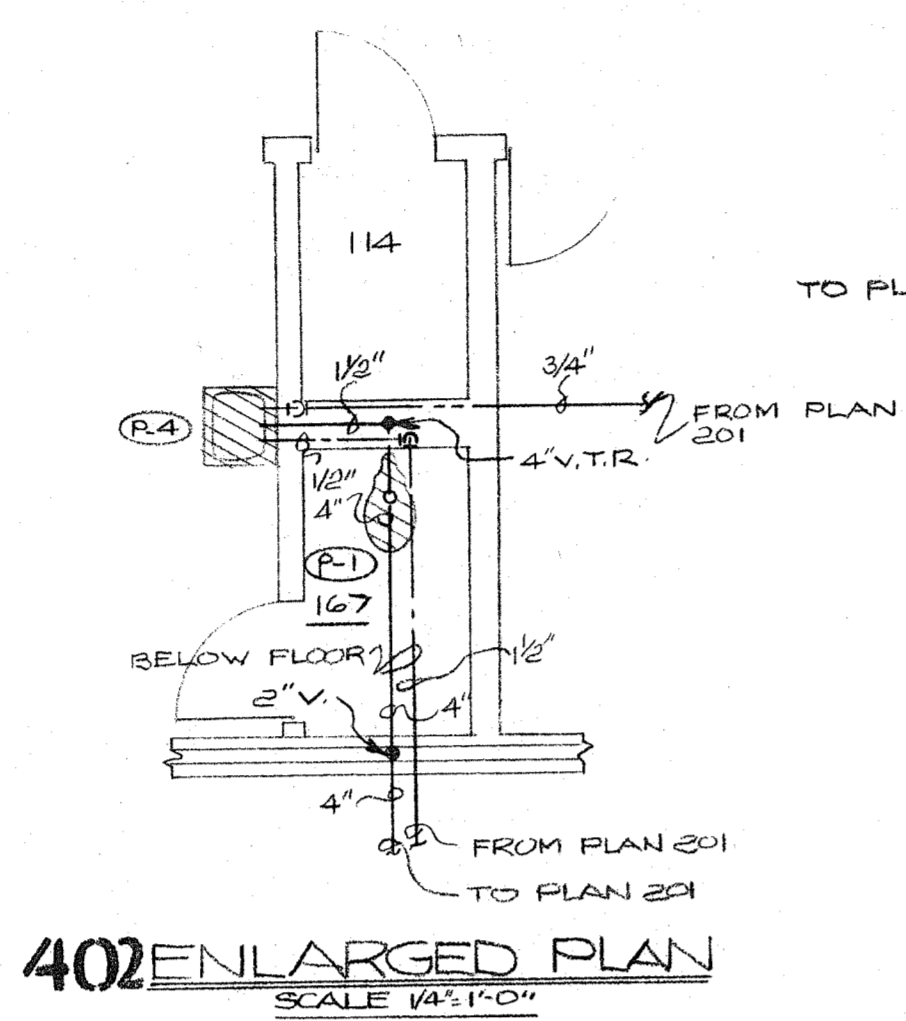
THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA

ONSLow COUNTY BOARD OF EDUCATION
JAMES D. PIVER, CHAIRMAN
J. PAUL TYNDALL, SUPERINTENDENT

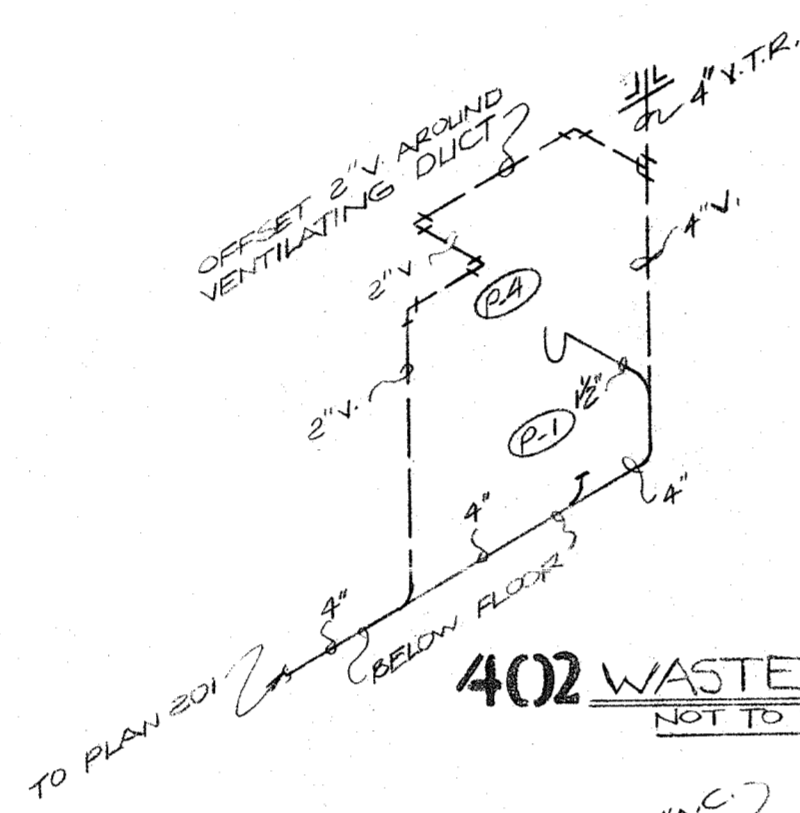
FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
JACKSONVILLE, NORTH CAROLINA



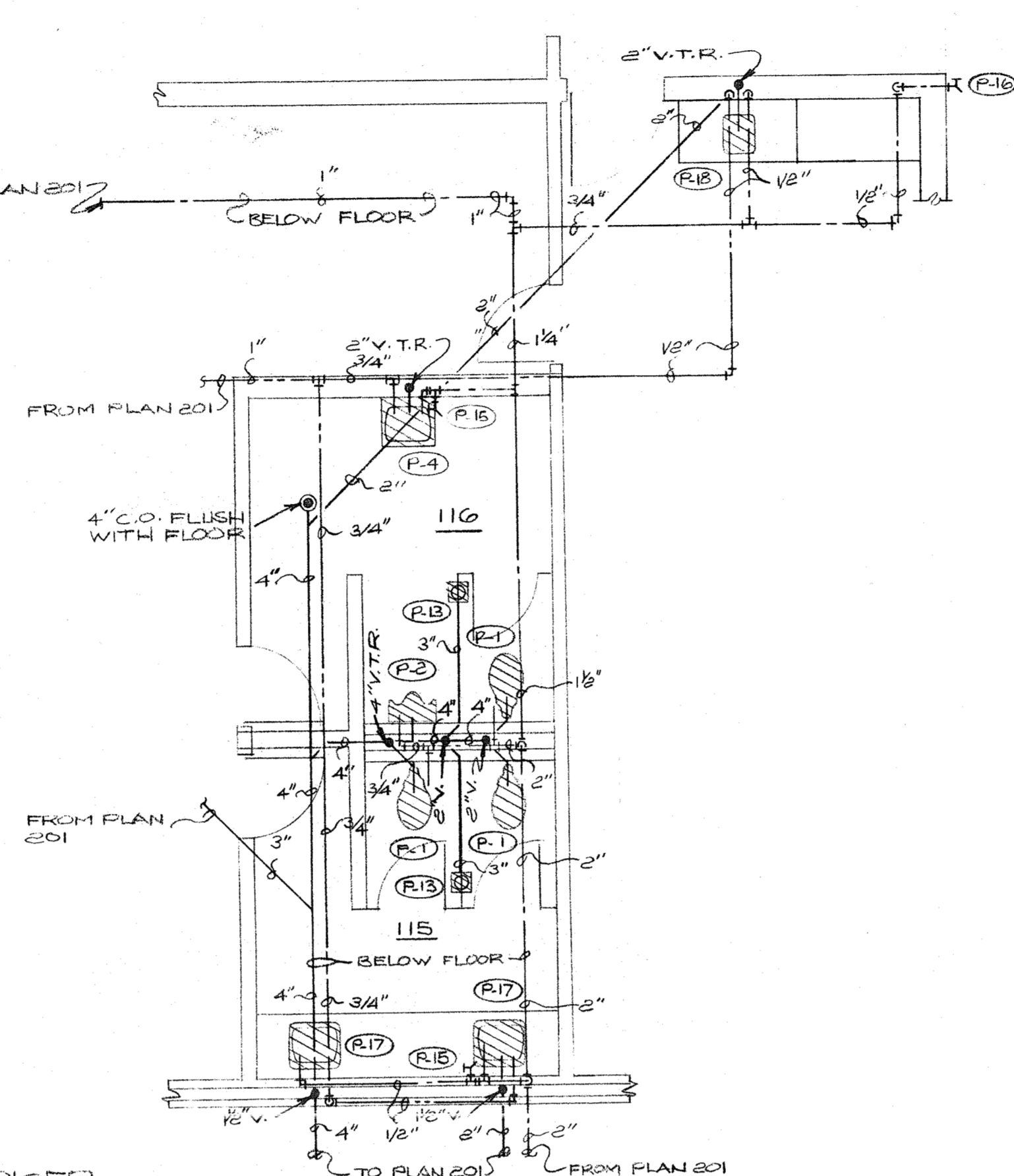
401 ENLARGED PLAN
SCALE 1/4" = 1'-0"



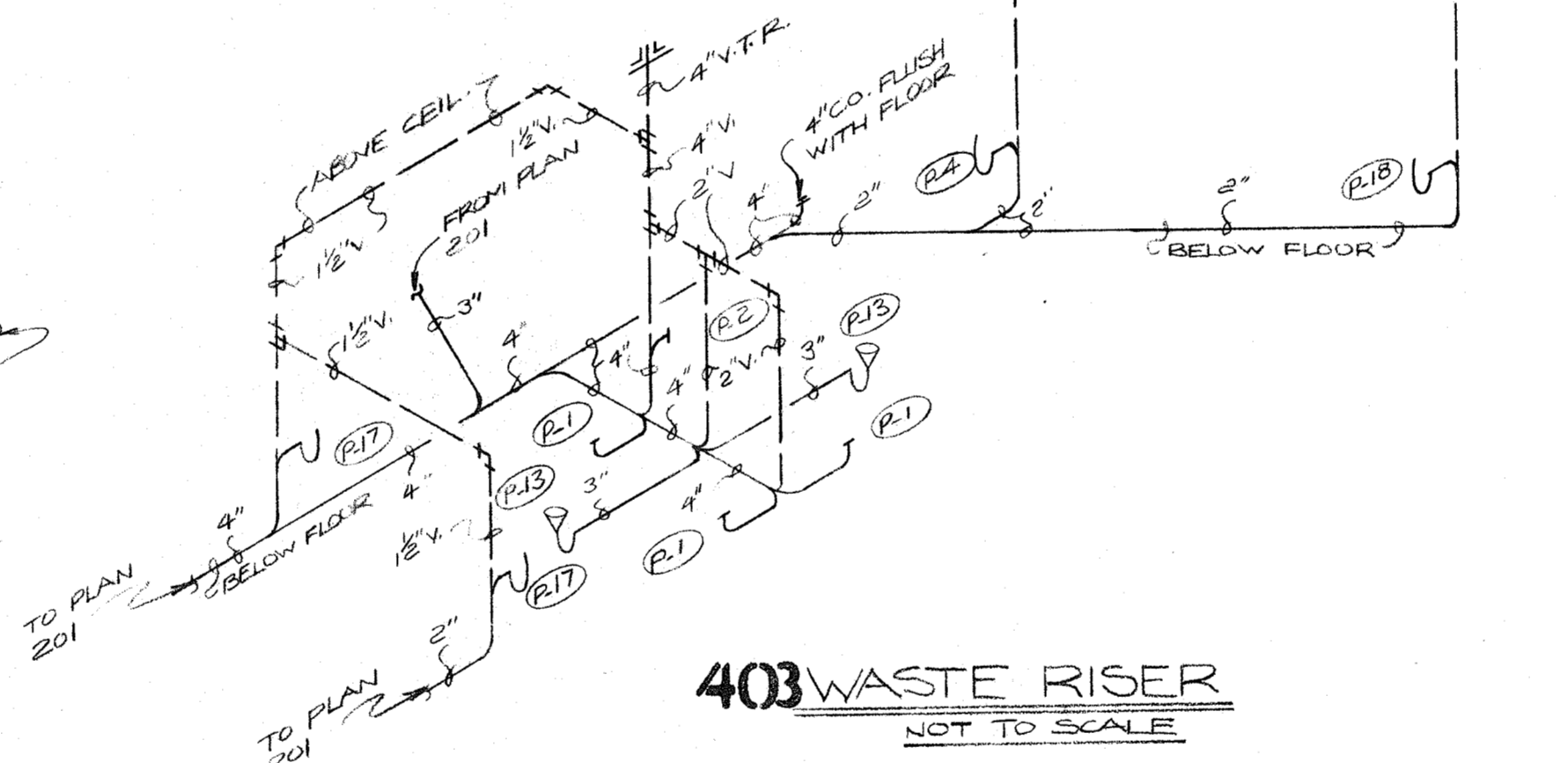
402 ENLARGED PLAN
SCALE 1/4" = 1'-0"



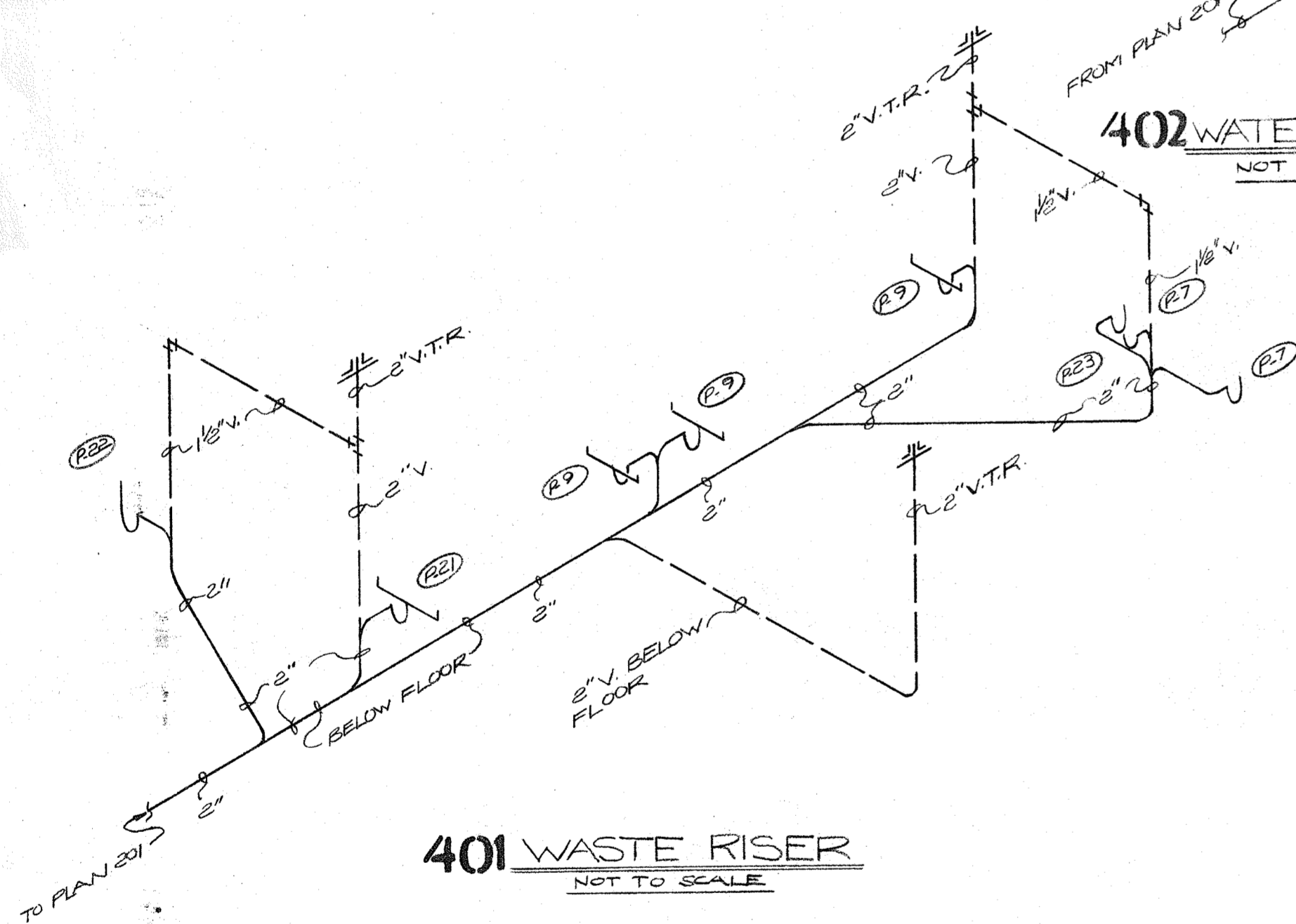
402 WASTE RISER
NOT TO SCALE



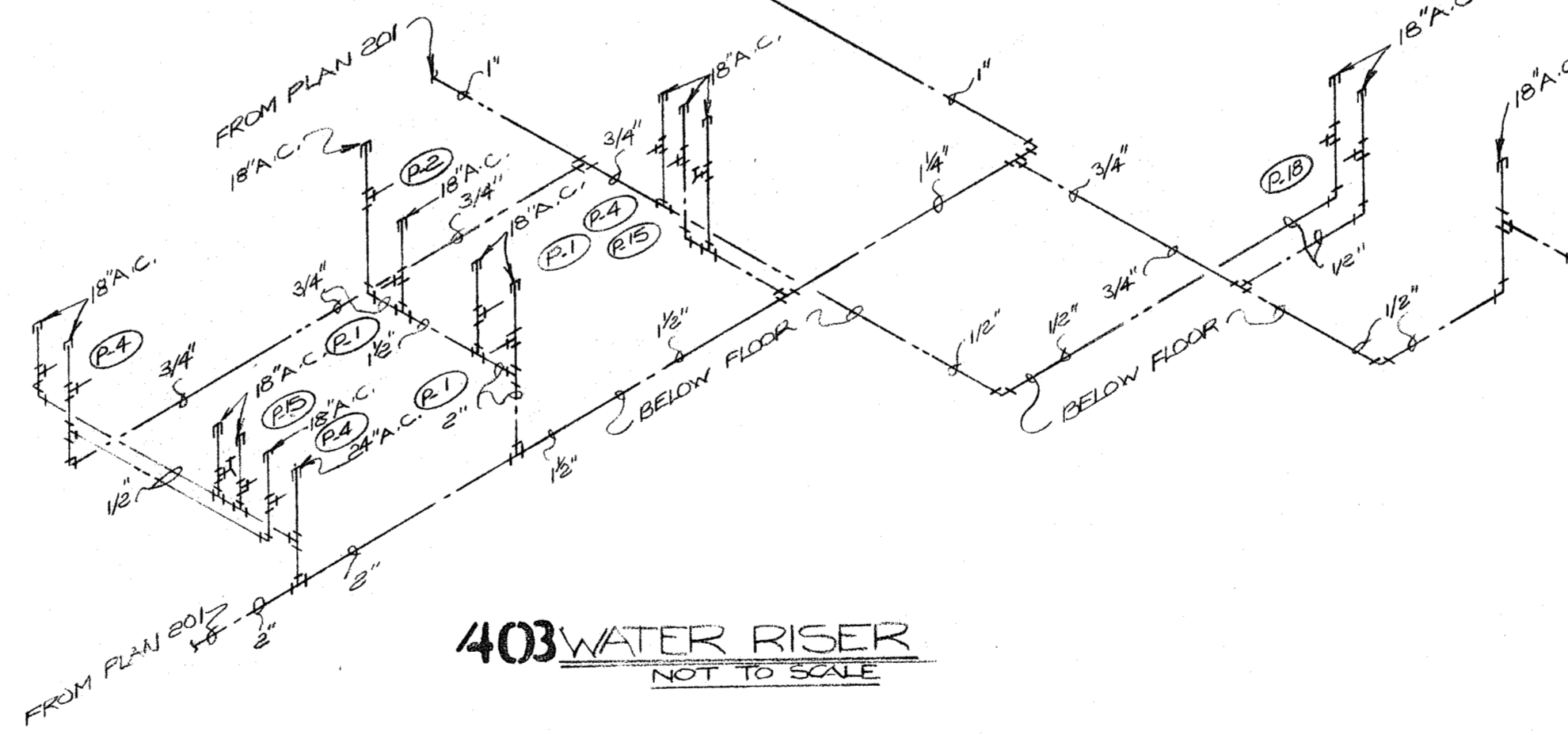
403 ENLARGED PLAN
SCALE 1/4" = 1'-0"



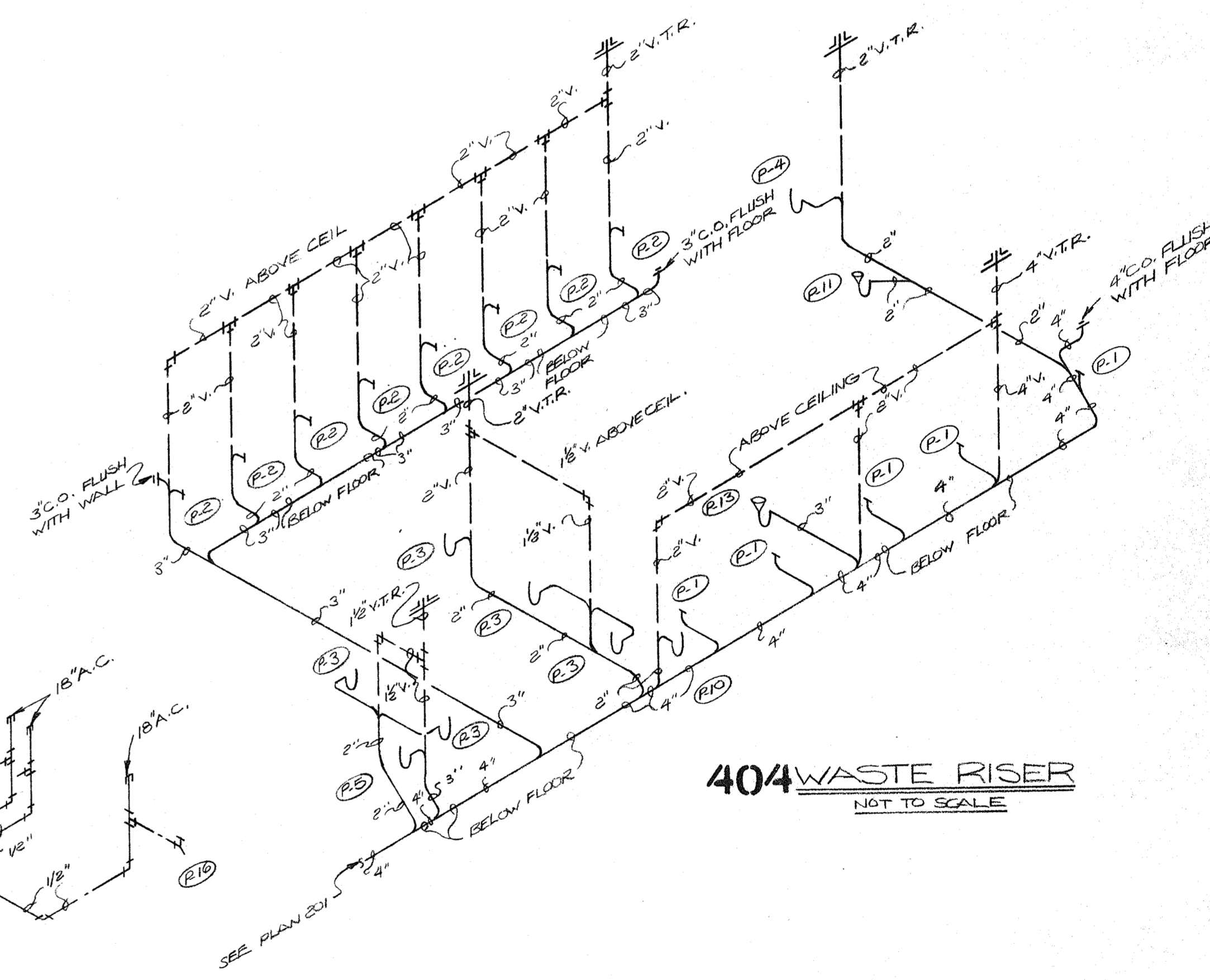
403 WASTE RISER
NOT TO SCALE



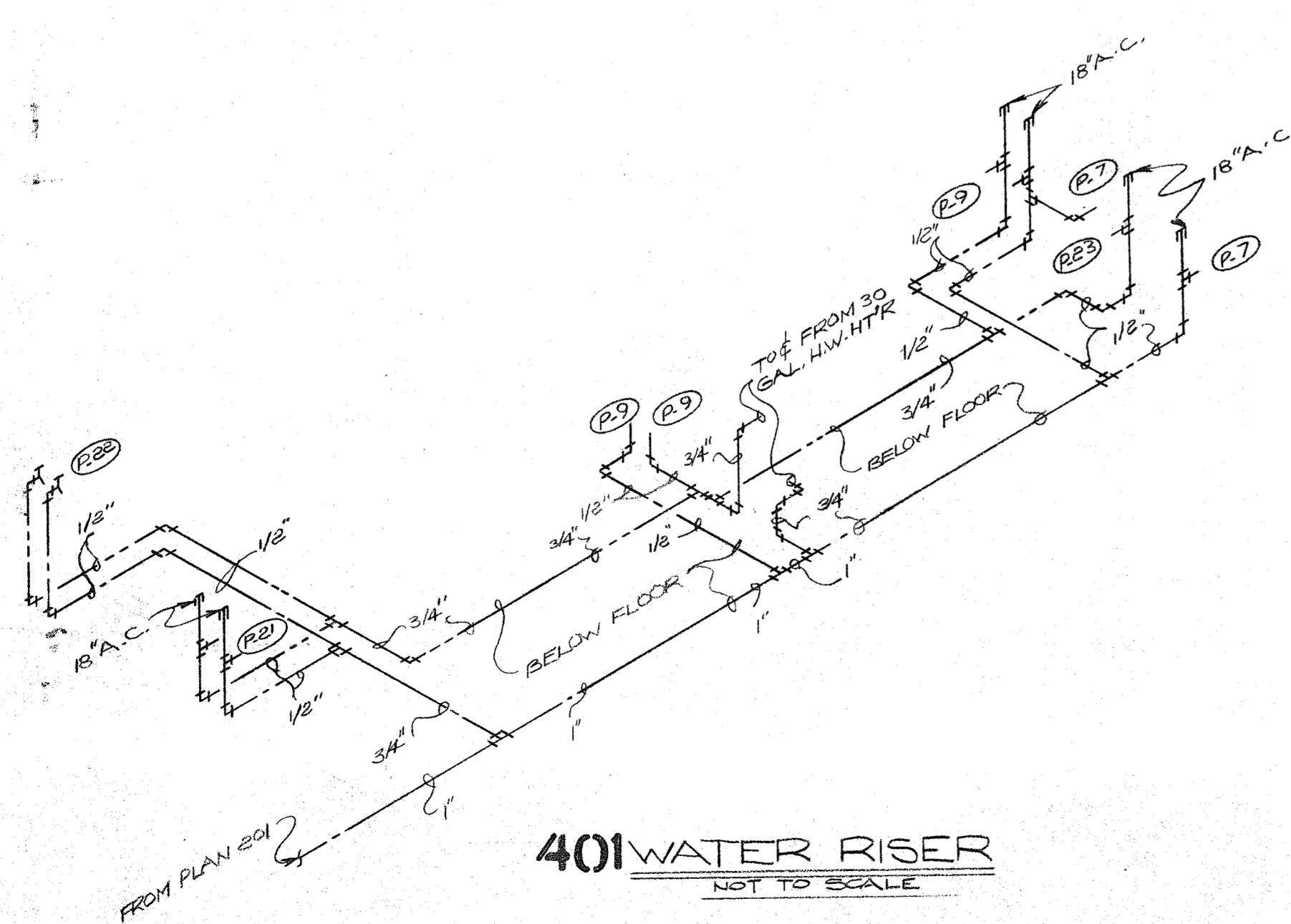
401 WASTE RISER
NOT TO SCALE



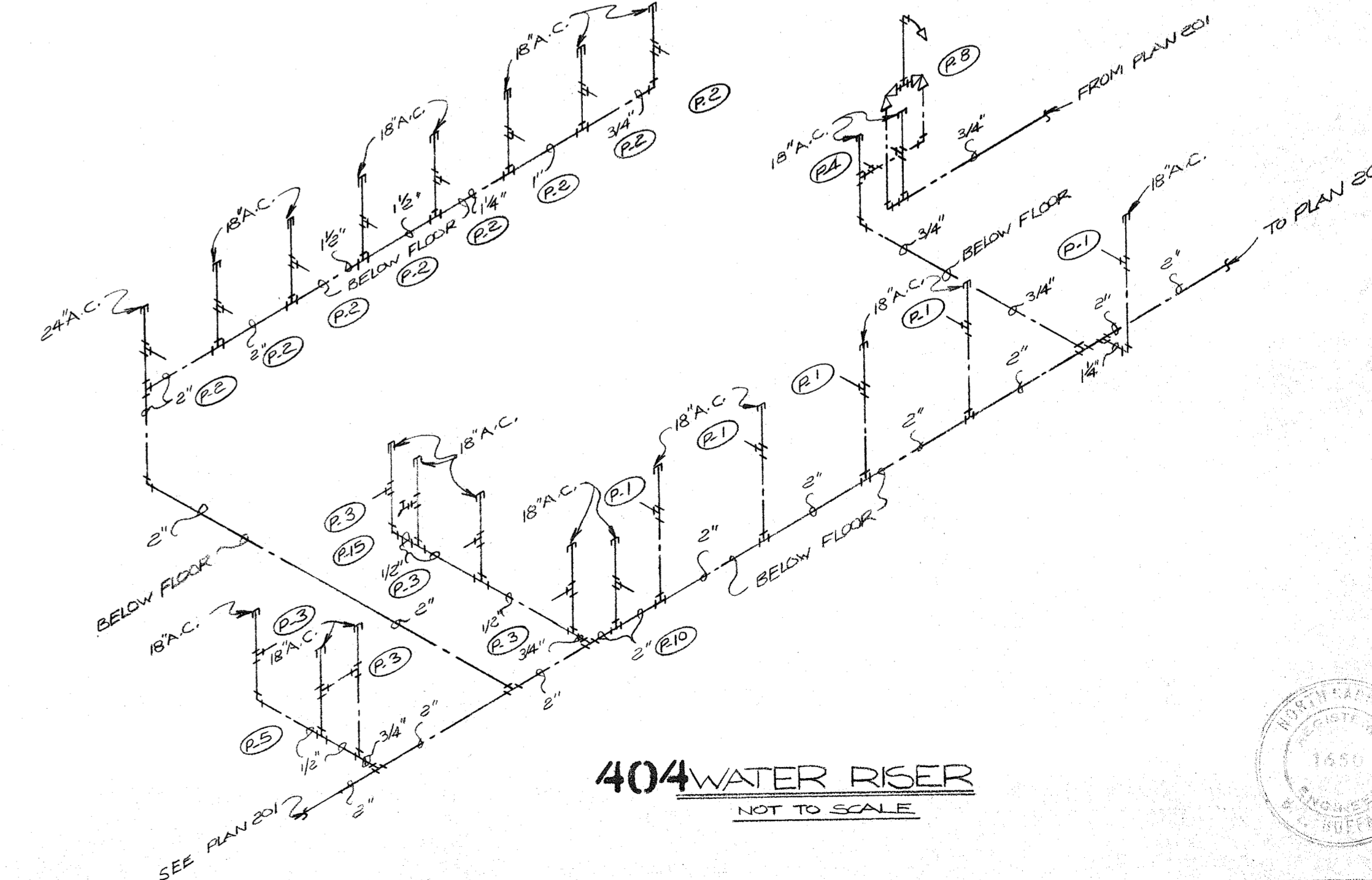
403 WATER RISER
NOT TO SCALE



404 WASTE RISER
NOT TO SCALE



401 WATER RISER
NOT TO SCALE



404 WATER RISER
NOT TO SCALE

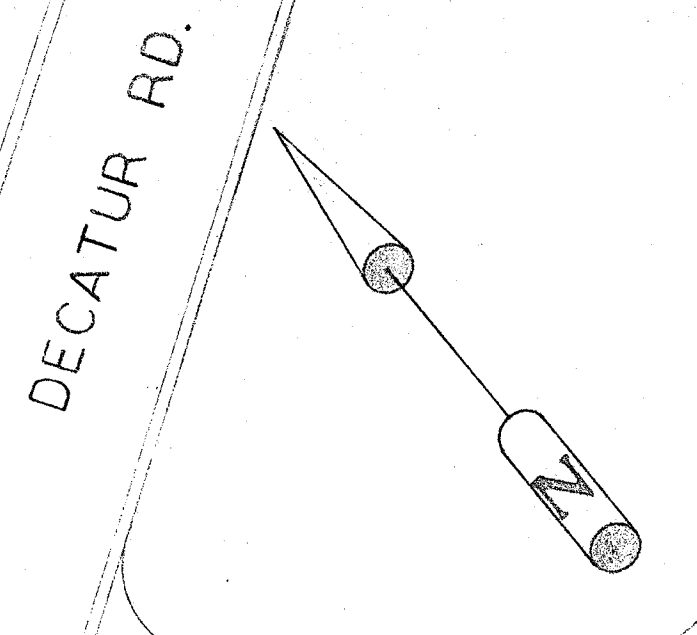
JOB NO.
DATE
DRAWN BY

THEODORE J. PETERS A.I.A. ARCHITECT

JACKSONVILLE, NORTH CAROLINA

ONSLAW COUNTY BOARD OF EDUCATION
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FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
JACKSONVILLE, NORTH CAROLINA



NEW CLASSROOM BUILDING

NEW SHOP BUILDING

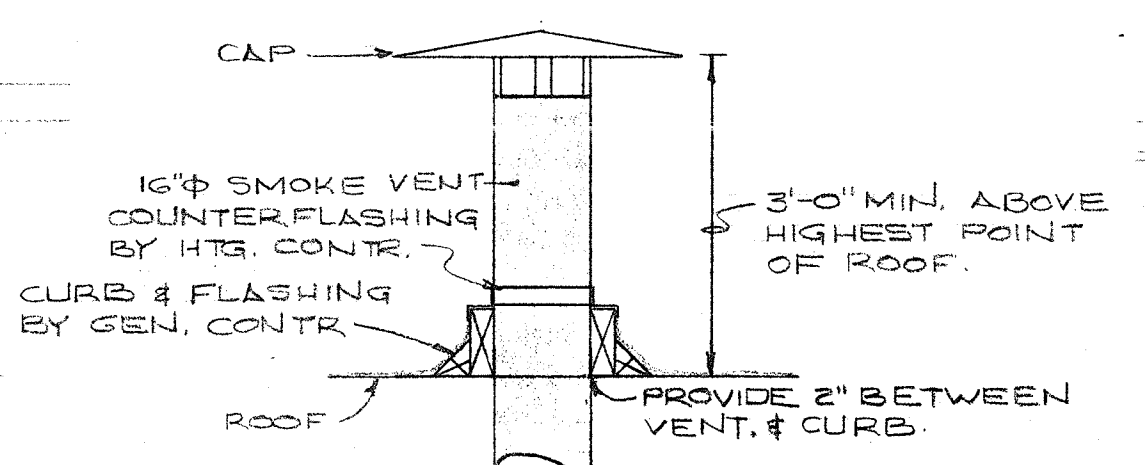
EXISTING CAFETERIA BUILDING

EXISTING CLASSROOM BUILDING

CONNECTED LOAD

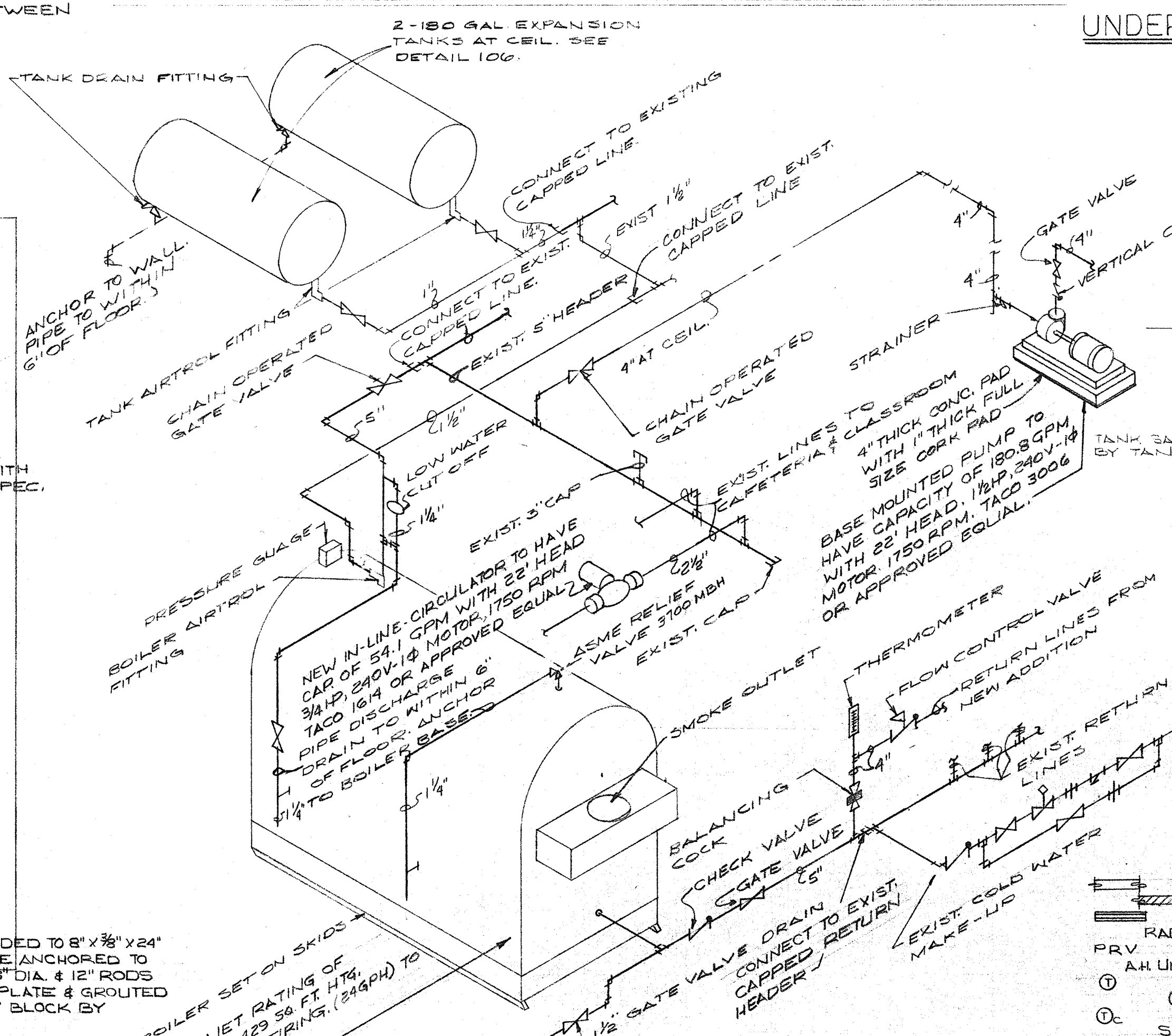
EXISTING LOAD	714.0 MBH
NEW CLASSROOM BLDG.	1807.6 MBH
NEW SHOP BLDG.	239.5 MBH
TOTAL CONNECTED LOAD	2761.1 MBH
EXIST. BOILER CAPACITY	1994.0 MBH
NEW BOILER CAPACITY	3928.0 MBH
TOTAL CAPACITY	5928.0 MBH
SPARE CAPACITY	1226.9 MBH

SIoux RD.

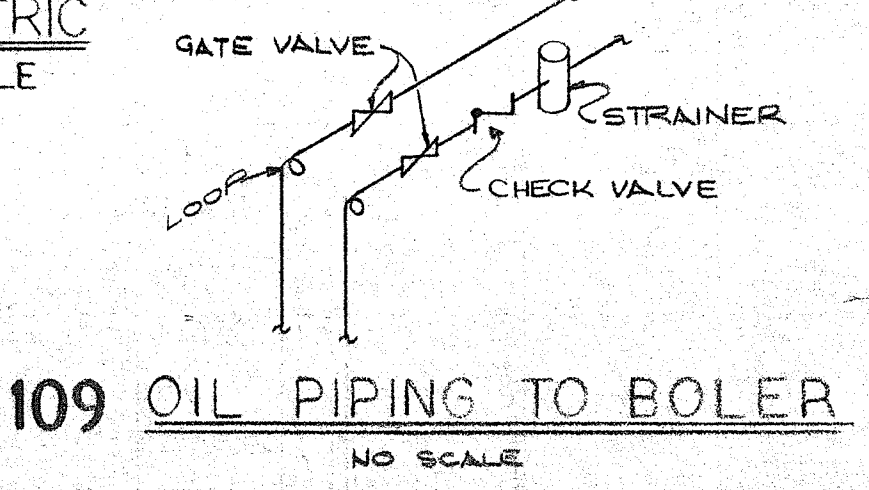


110 BOILER VENT DETAIL
NO SCALE

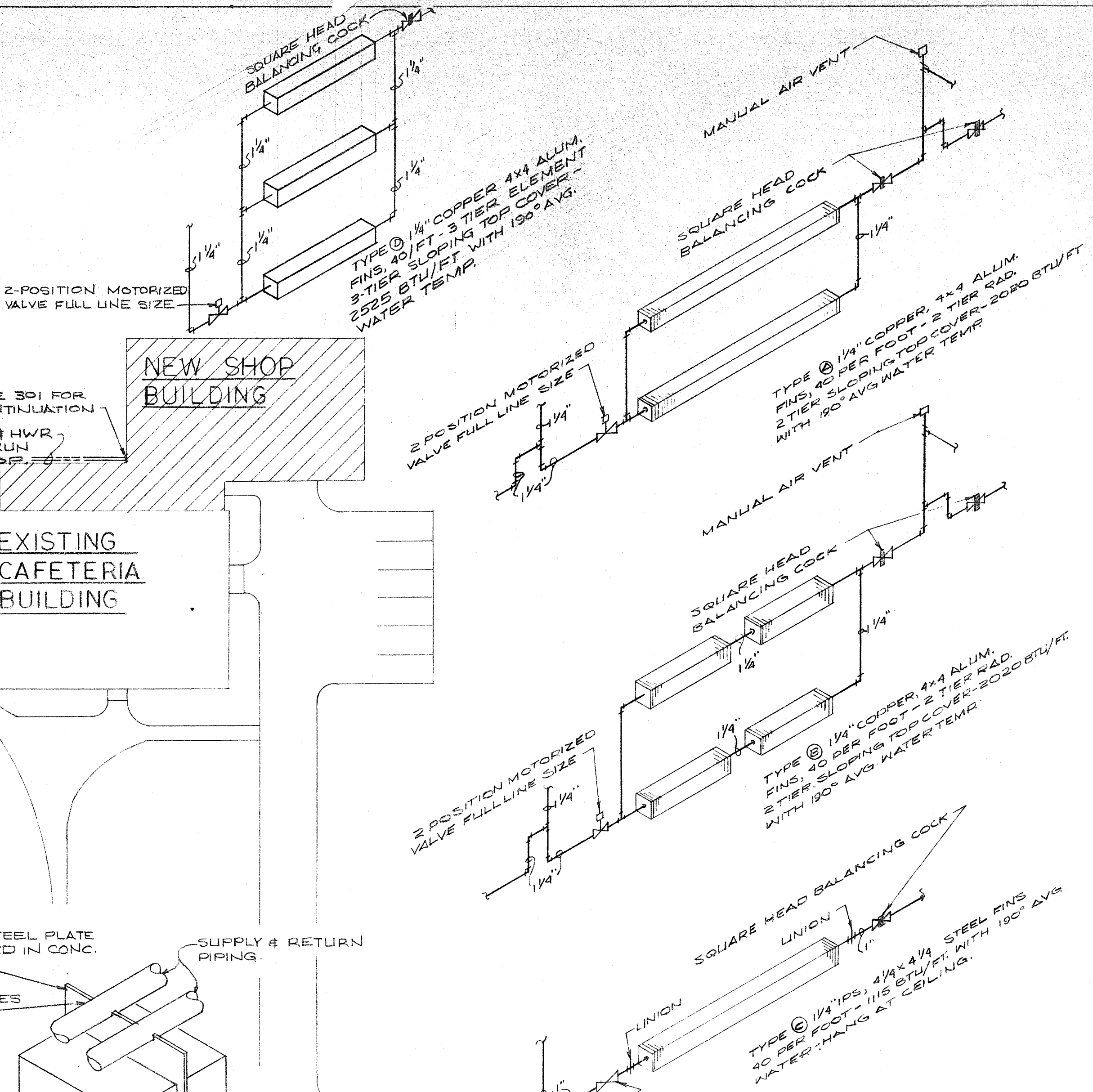
101 PLOT PLAN
SCALE 1/8"=10'-0"



105 BOILER PIPING ISOMETRIC
NO SCALE

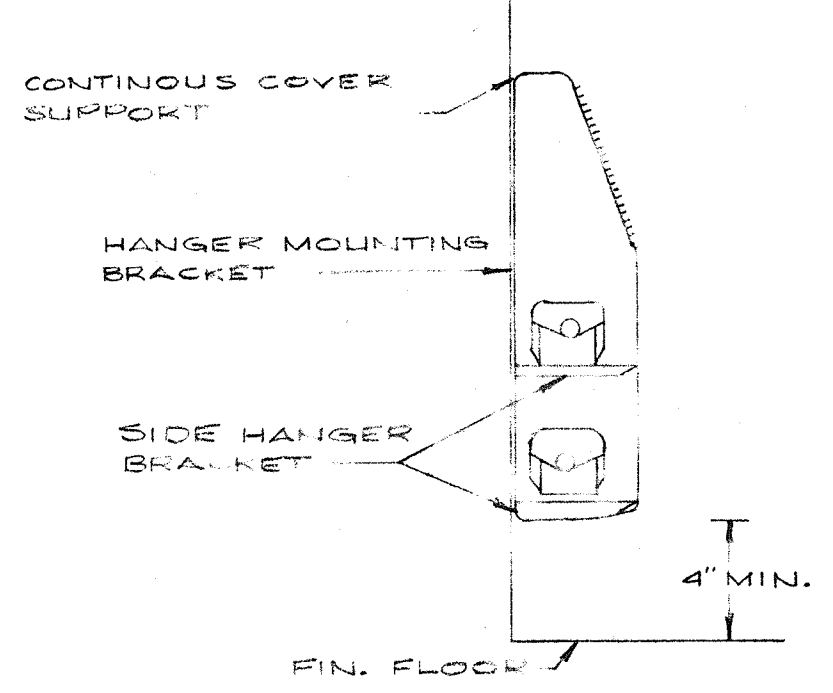
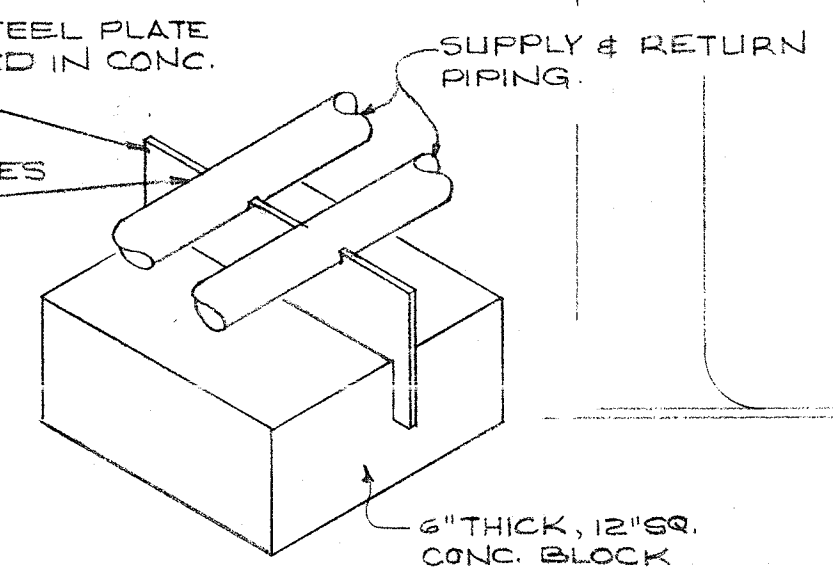


109 OIL PIPING TO BOILER
NO SCALE

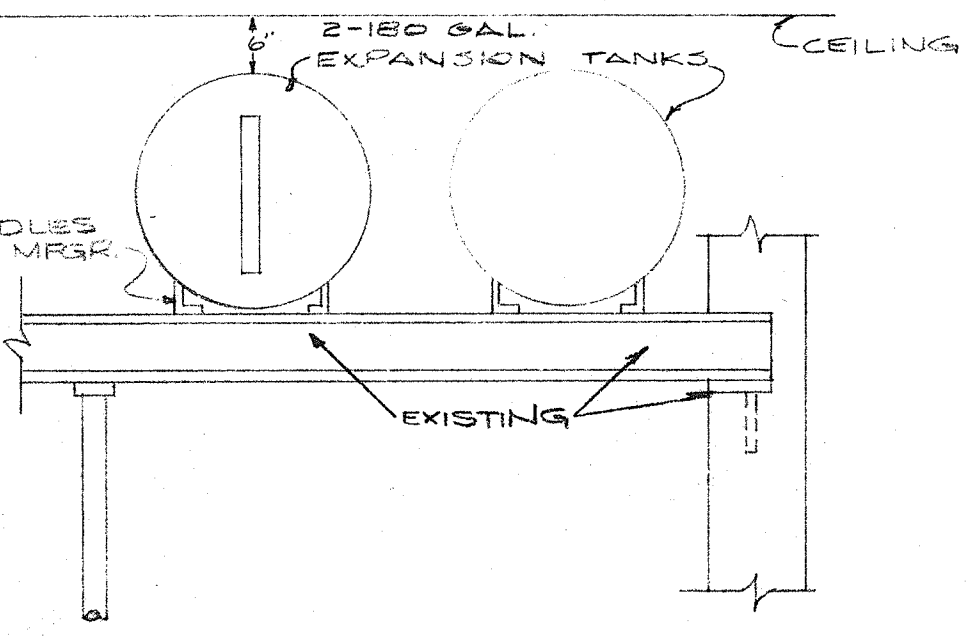


103 RADIATION PIPING DETAIL
NO SCALE

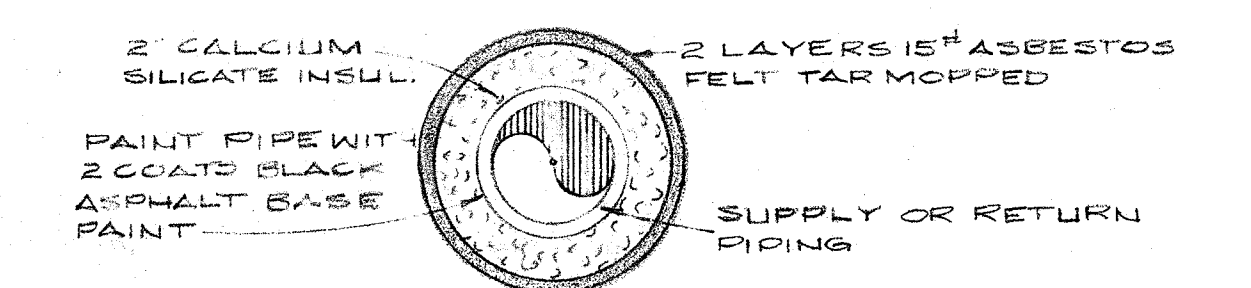
UNDERGROUND ANCHOR DETAIL
NO SCALE



104 RAD. COVER HANGING DETAIL
NO SCALE



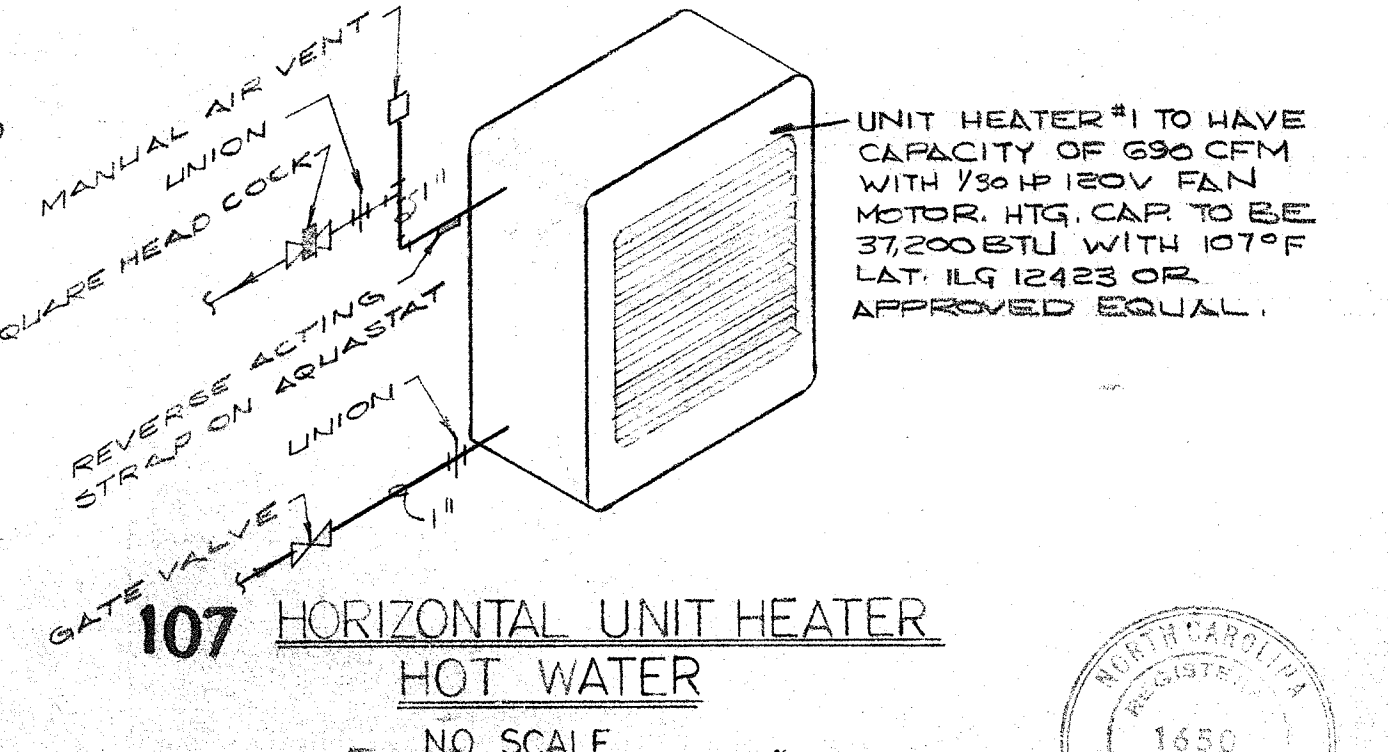
108 EXPANSION TANK MOUNTING DETAIL
NO SCALE



106 UNDERGROUND PIPING DETAIL
NO SCALE

LEGEND

[Symbol]	DUCTWORK
[Symbol]	LINED DUCTWORK
[Symbol]	RADIATION
[Symbol]	POWER ROOF VENTILATOR
[Symbol]	AIR HANDLING UNIT
[Symbol]	THERMOSTAT
[Symbol]	NIGHT SETBACK THERMOSTAT
[Symbol]	THERMOSTAT WITH DIAL GUARD
[Symbol]	SUPPLY AIR
[Symbol]	RETURN AIR
[Symbol]	GATE VALVE
[Symbol]	FLOW CONTROL VALVE
[Symbol]	SQUARE HEAD BALANCING COCK
[Symbol]	STRAINER
[Symbol]	UNION
[Symbol]	2-POSITION MOTORIZED VALVE
[Symbol]	HOT WATER SUPPLY PIPING
[Symbol]	HOT WATER RETURN PIPING
[Symbol]	4" THROAT - 28" FACE
[Symbol]	CEILING
[Symbol]	HWS
[Symbol]	HWR
[Symbol]	TSTAT



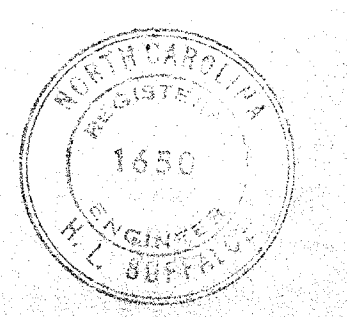
107 HORIZONTAL UNIT HEATER HOT WATER
NO SCALE

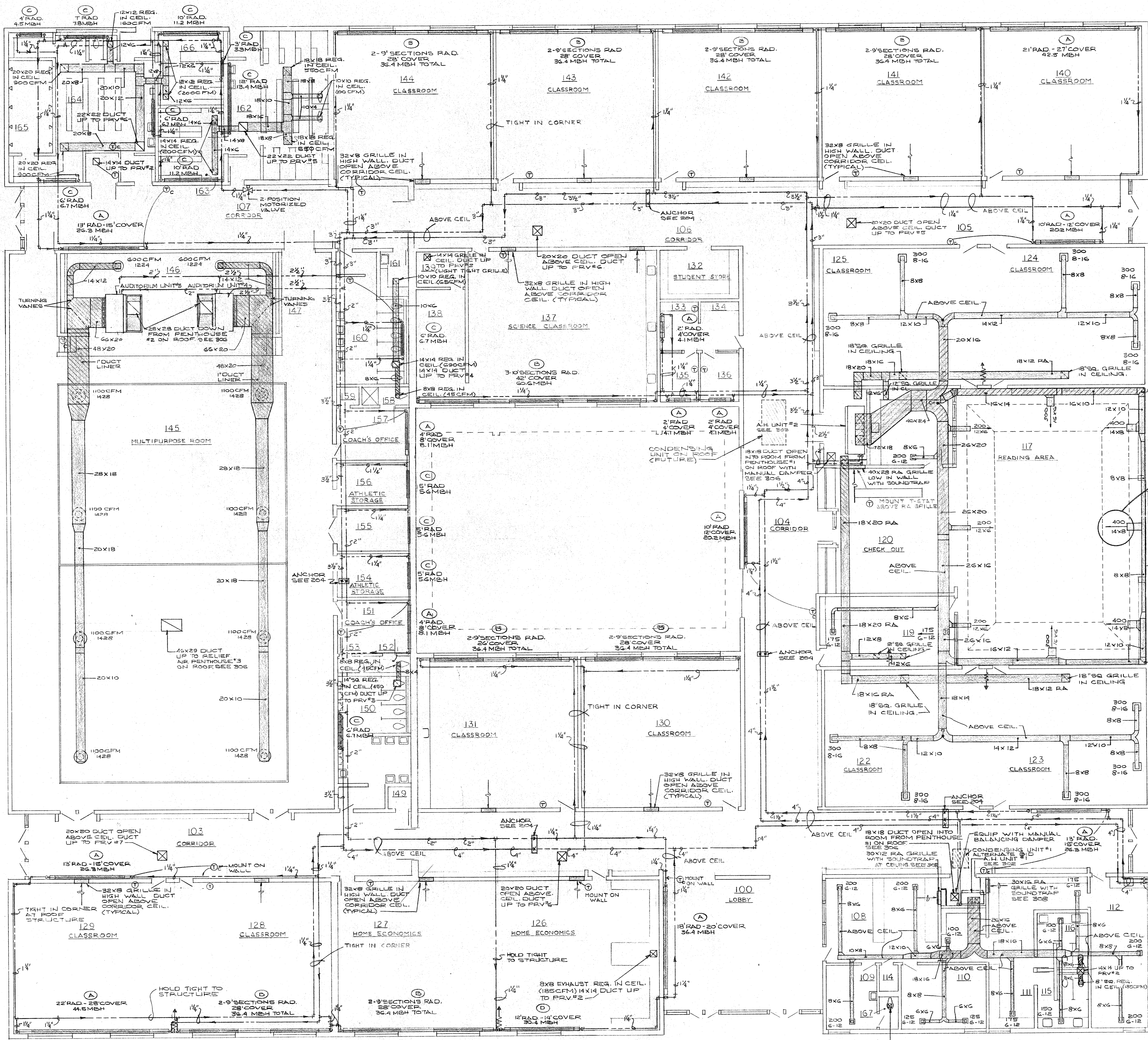
JOB NO.
DATE
DRAWN BY R.W.B., S.R.W.

THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA

ONSLow COUNTY BOARD OF EDUCATION
JAMES D. PIVER, CHAIRMAN
J. PAUL TYNDALL, SUPERINTENDENT

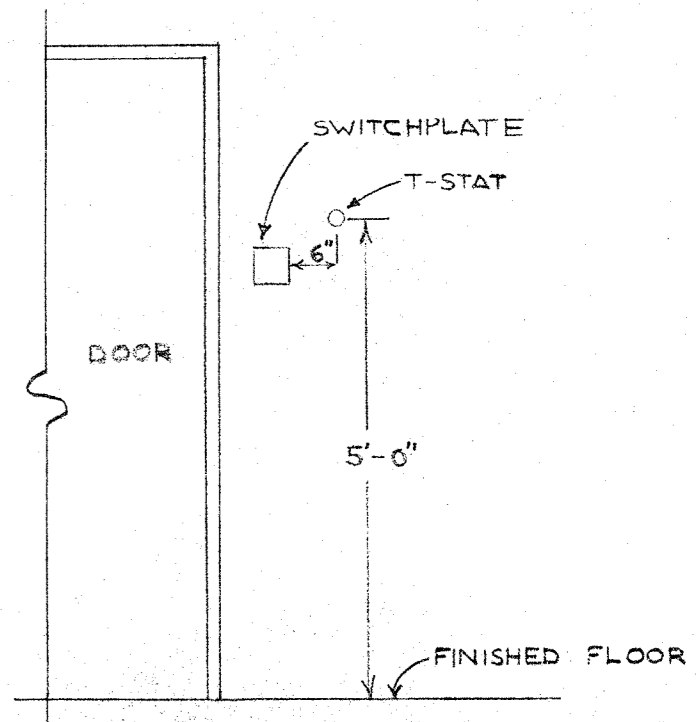
FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II
JACKSONVILLE, NORTH CAROLINA



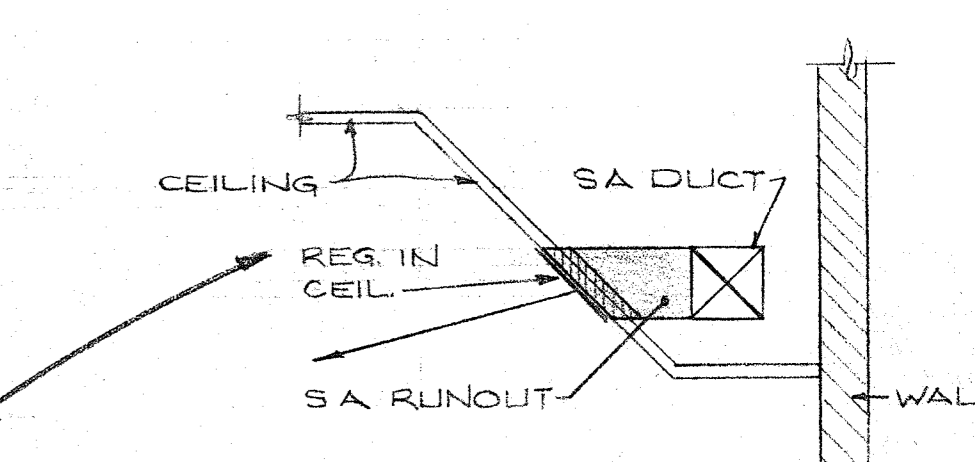


201 CLASSROOM BLDG. FLOOR PLAN
SCALE: 1/8" = 1'-0"

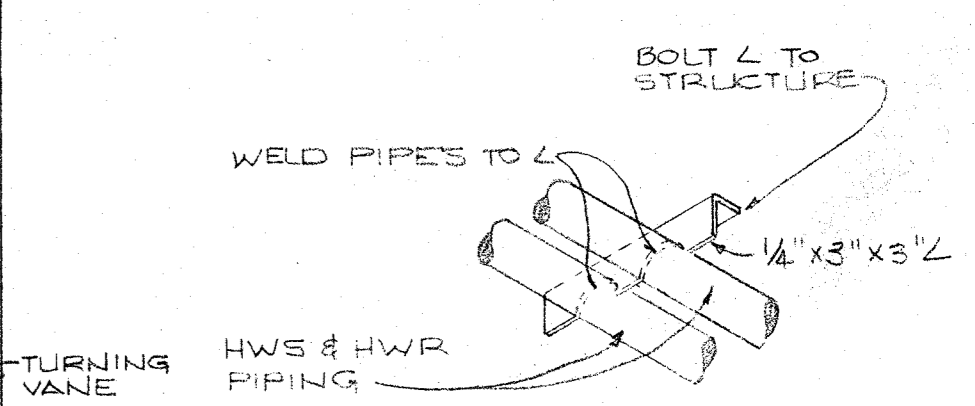
202 TYPICAL THERMOSTAT MOUNTING FOR CLASSROOM
SCALE: 1/2" = 1'-0"



203 SA REGISTER IN CEILING
NO SCALE



204 ANCHOR DETAIL
NO SCALE

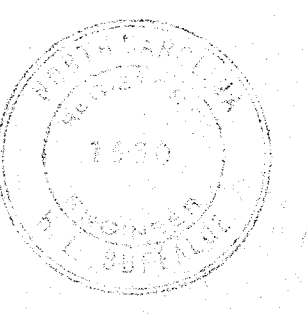


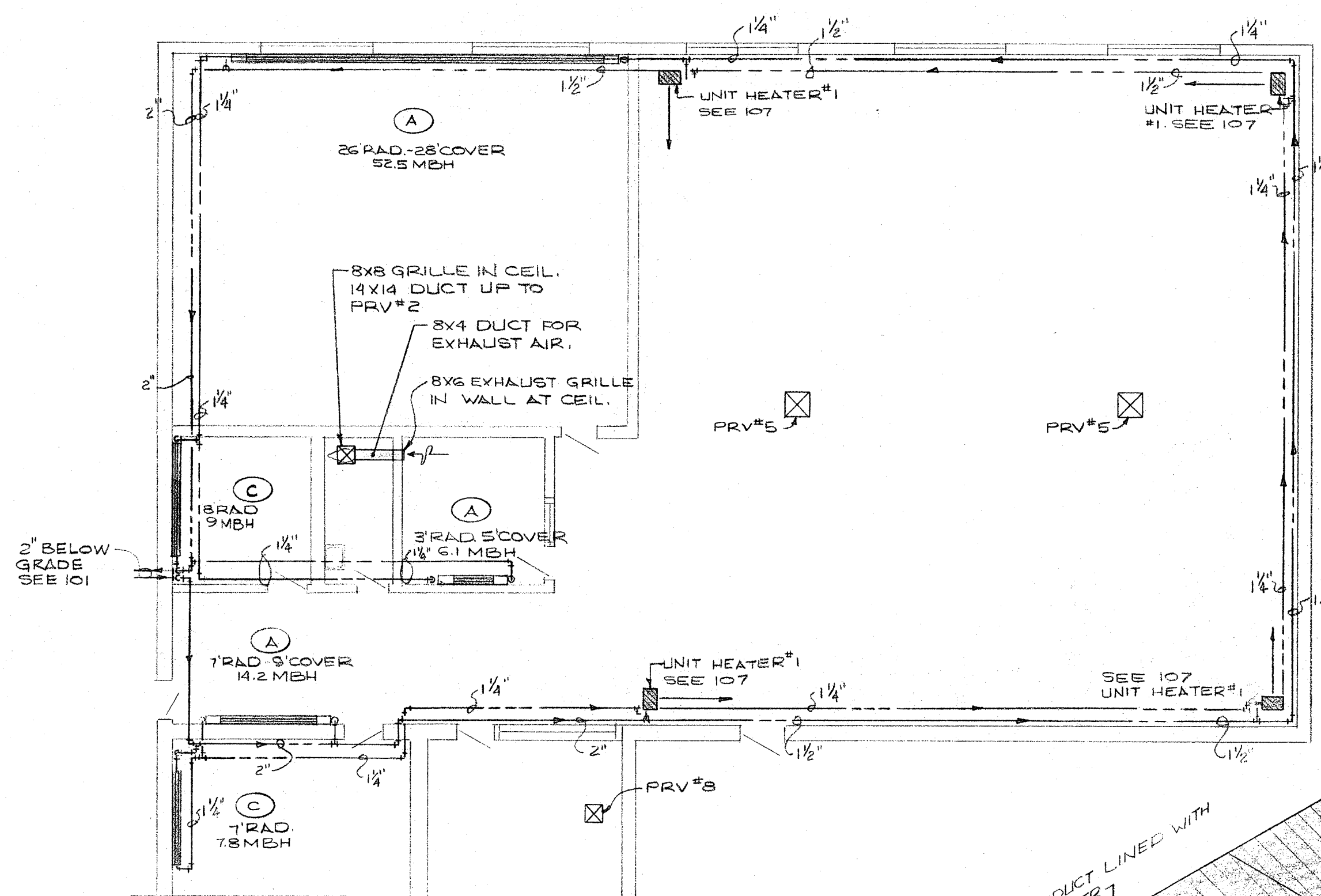
JOB NO.
DATE
DRAWN BY SRV

THEODORE J. PETERS A.I.A. ARCHITECT JACKSONVILLE, NORTH CAROLINA

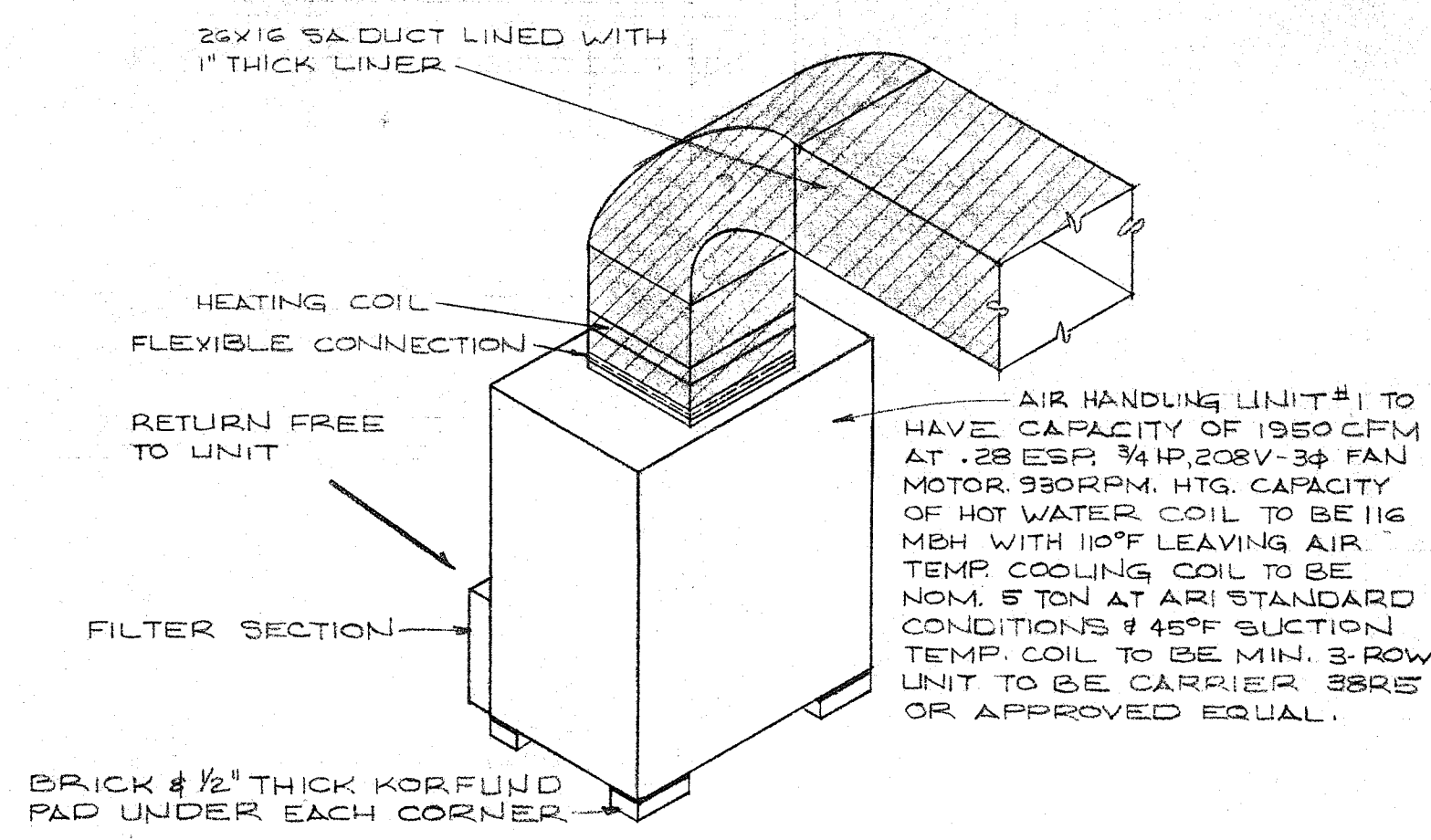
ONSLOW COUNTY BOARD OF EDUCATION
JAMES D. PIVER, CHAIRMAN
J. PAUL TYNDALL, SUPERINTENDENT

FEDERAL PROJECT NO. N.C. 64-C-7A14
NORTHWOODS PARK SCHOOL PHASE II H-2
JACKSONVILLE, NORTH CAROLINA

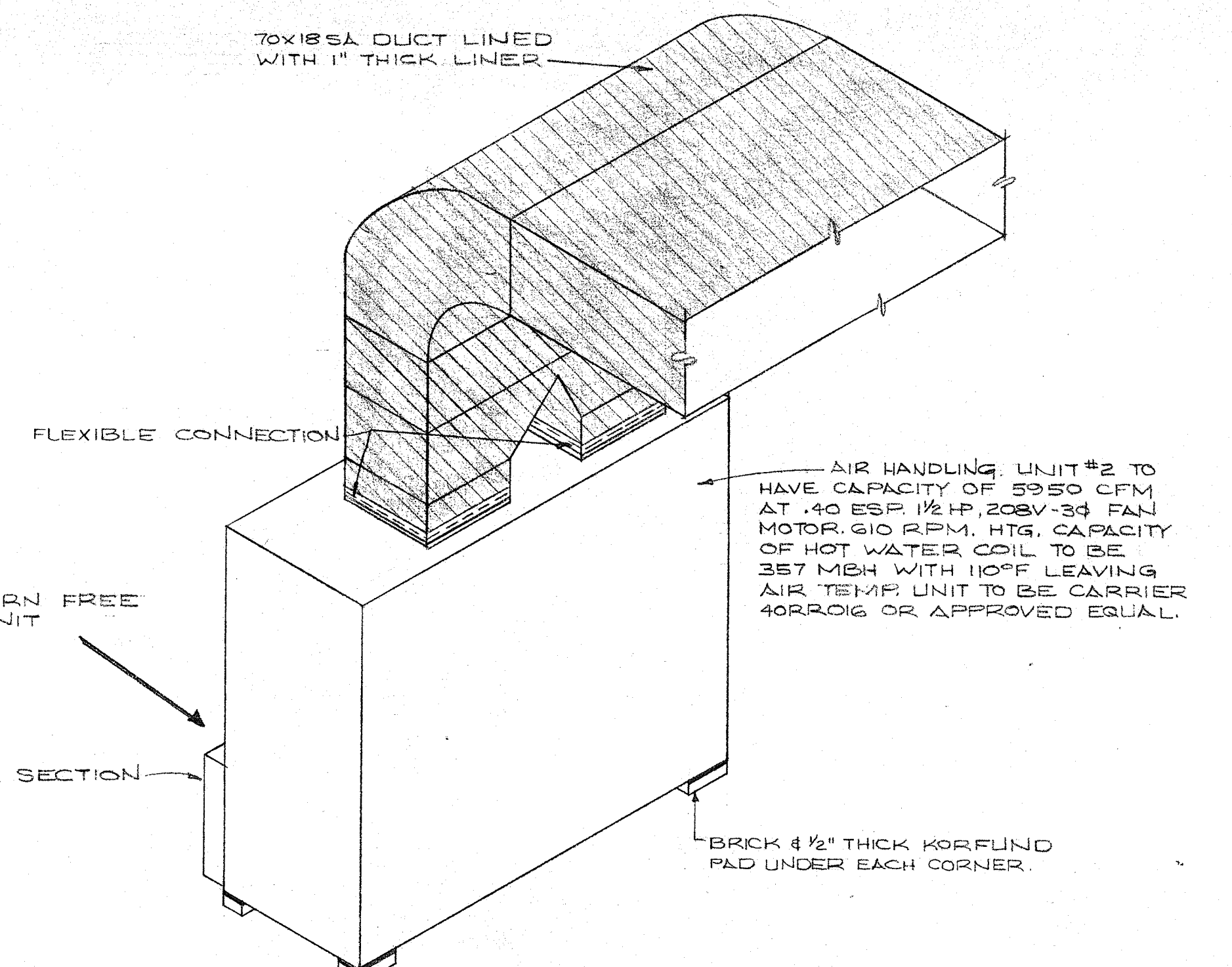




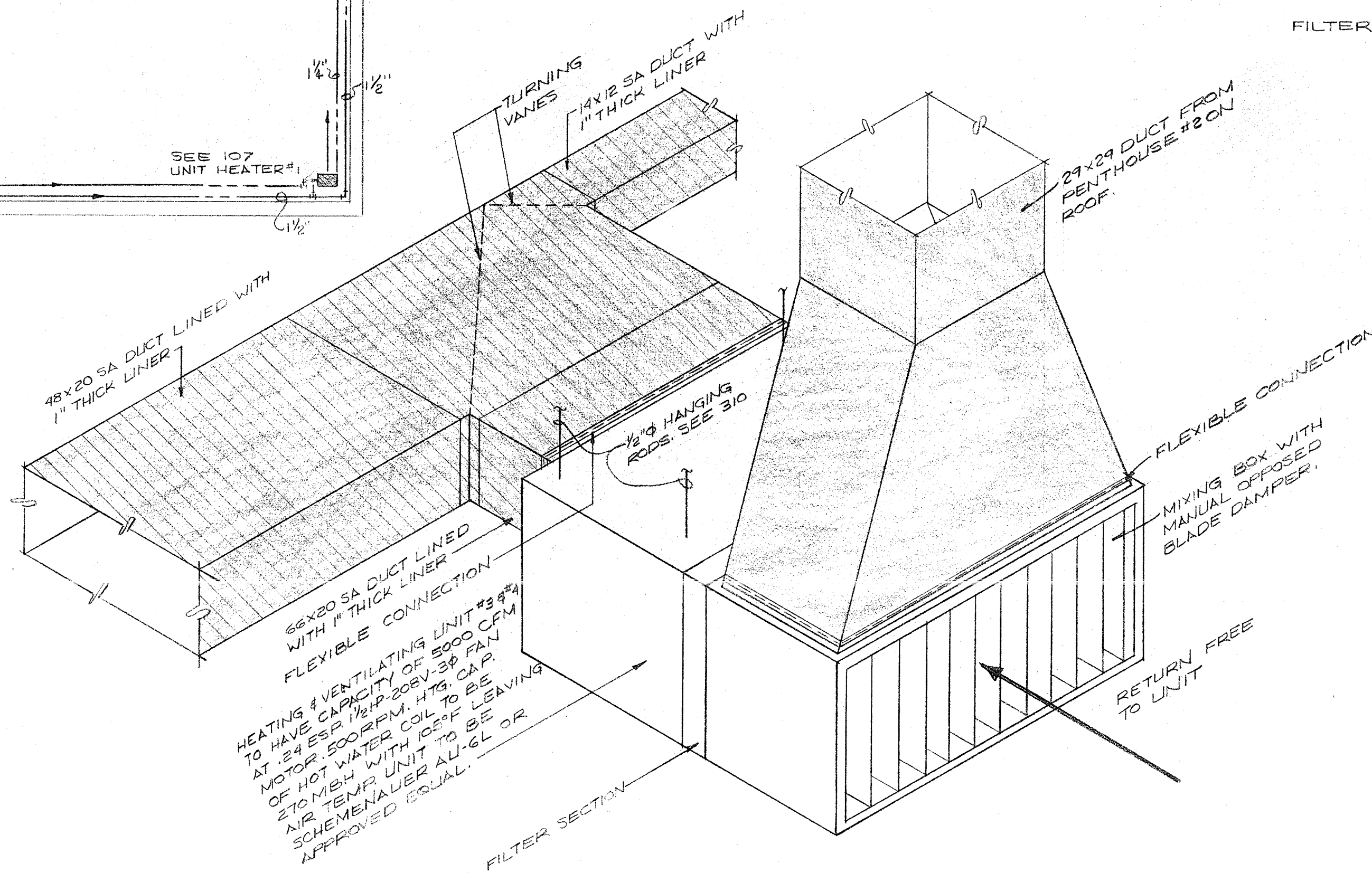
301 SHOP FLOOR PLAN
SCALE 1/8"=1'-0"



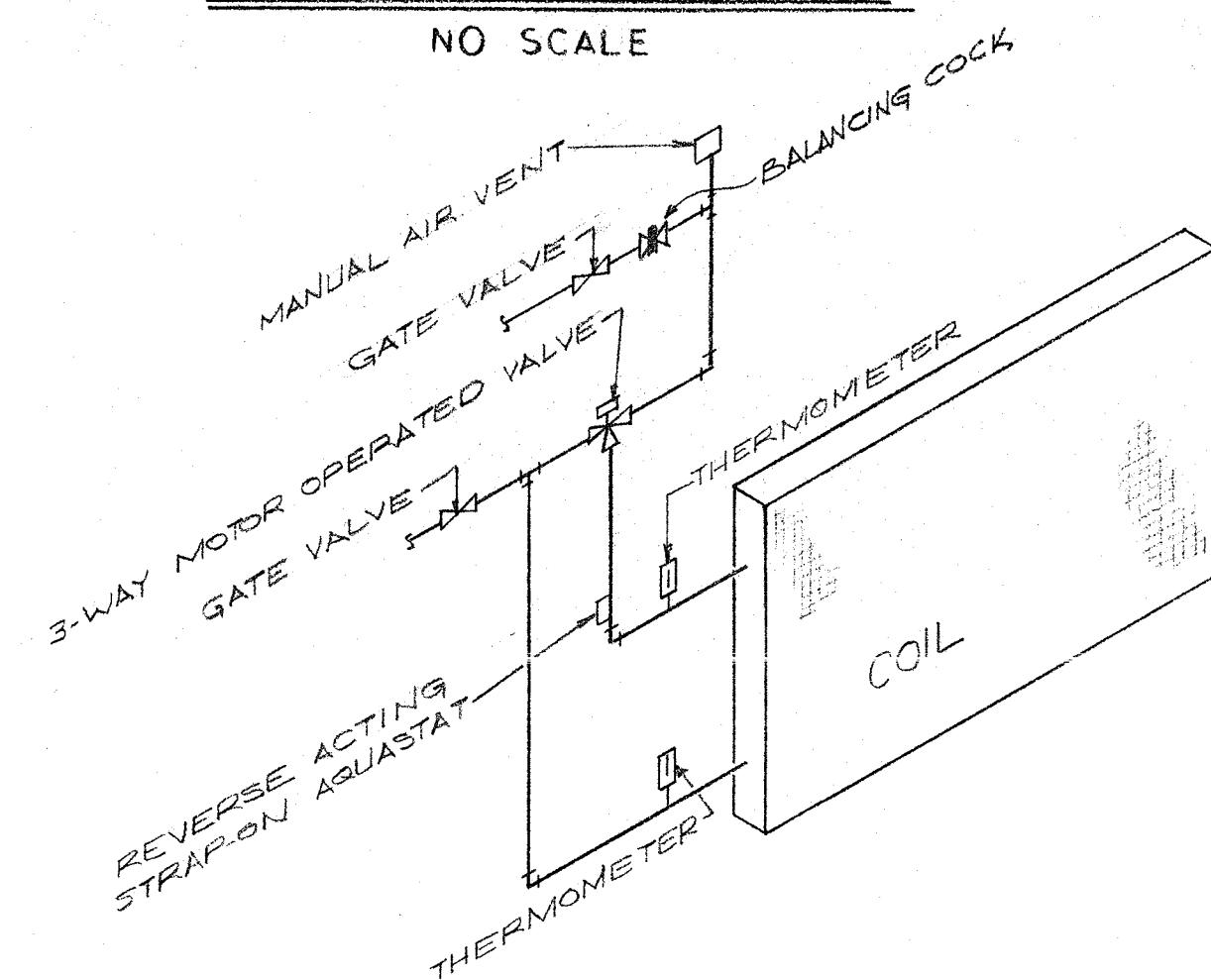
302 ISOMETRIC A.H. UNIT #1
NO SCALE



303 ISOMETRIC A.H. UNIT #2
NO SCALE



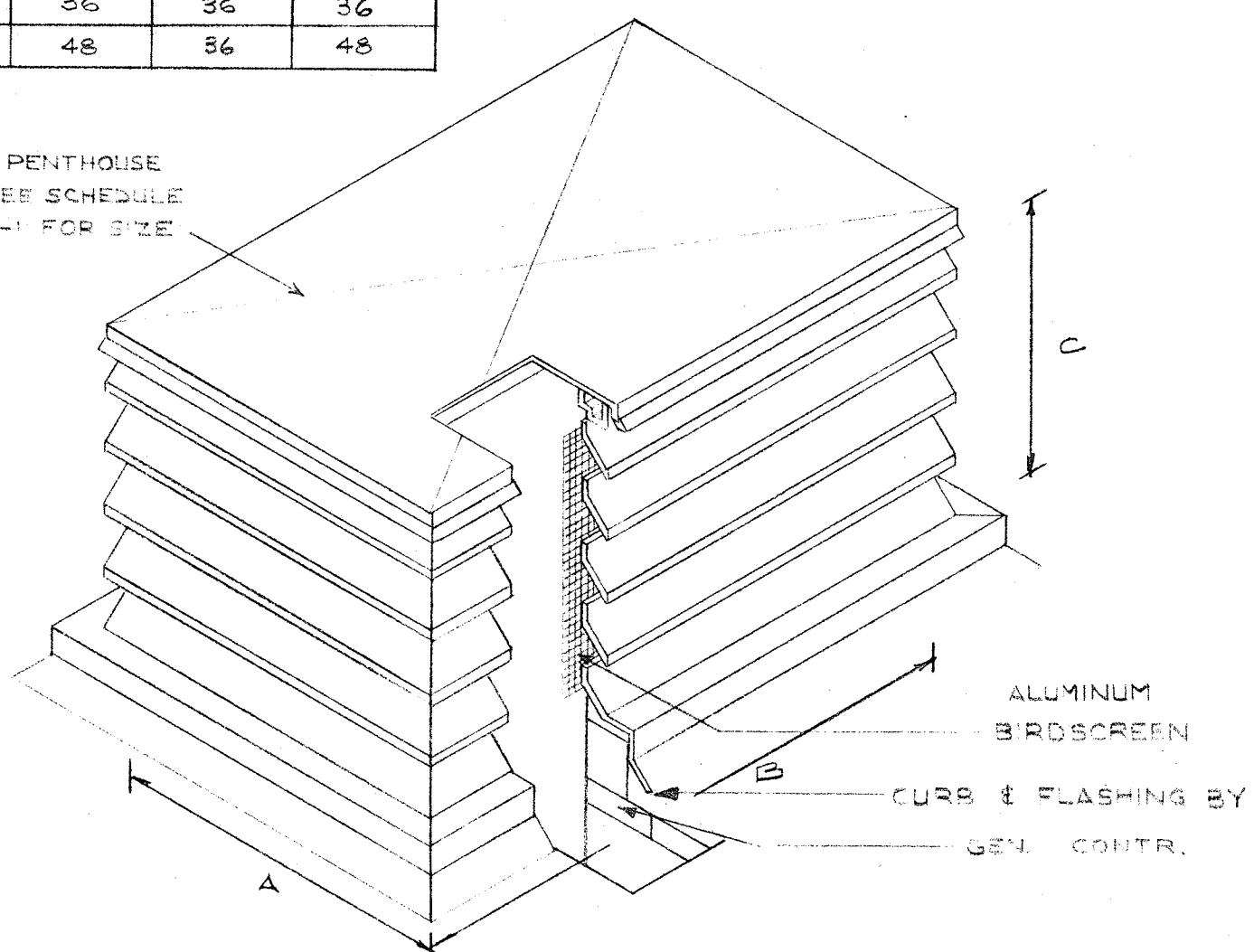
304 TYPICAL ISOMETRIC A.H. UNIT #3 & #4
NO SCALE



305 TYPICAL HOT WATER COIL PIPING DETAIL
NO SCALE

PENTHOUSE SCHEDULE			
NO.	A	B	C
1	18	18	18
2	26	36	36
3	48	56	48

TYPICAL PENTHOUSE
DETAIL SEE SCHEDULE
S&T. 44" FOR SIZE

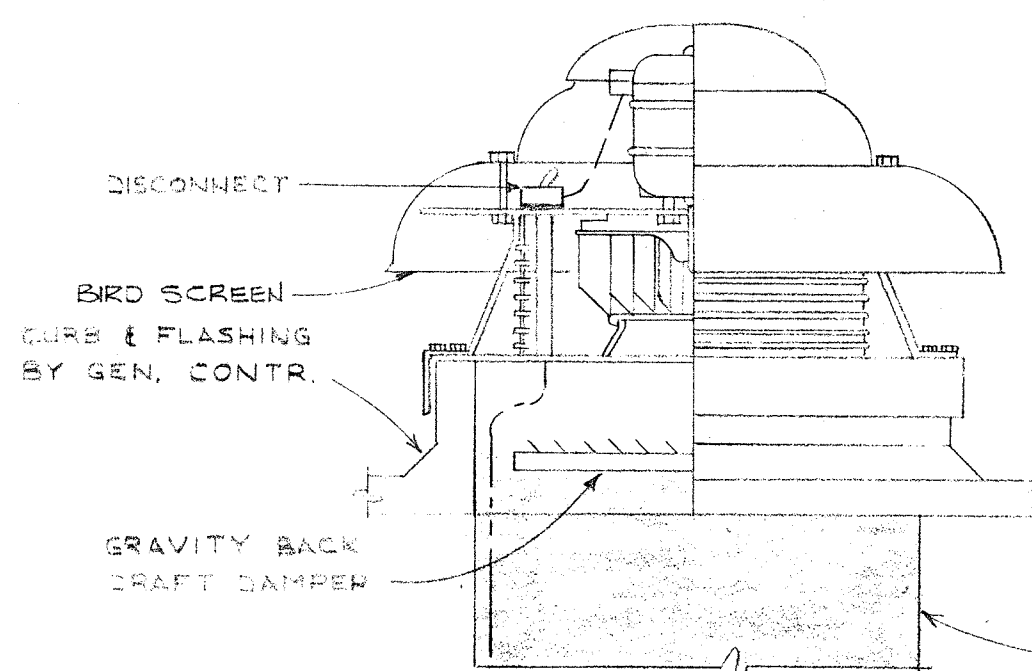


306 TYPICAL PENTHOUSE DETAIL
NO SCALE

POWER ROOF VENTILATOR SCHEDULE

NO.	CFM	RPM	EP	VOLTS	Φ	HP	CURB SIZE
1	96	1100	1/8	120	1	1/200	14x14
2	371	1550	1/8	120	1	1/250	14x14
3	497	1100	1/8	120	1	1/300	14x14
4	803	1650	1/8	120	1	1/400	14x14
5	1700	1140	1/8	120	1	1/500	20x20
6	2370	1140	1/8	120	1	1/500	20x20
7	1210	855	1/8	120	1	1/200	20x20
*8	803	1650	1/8	120	1	1/400	20x20

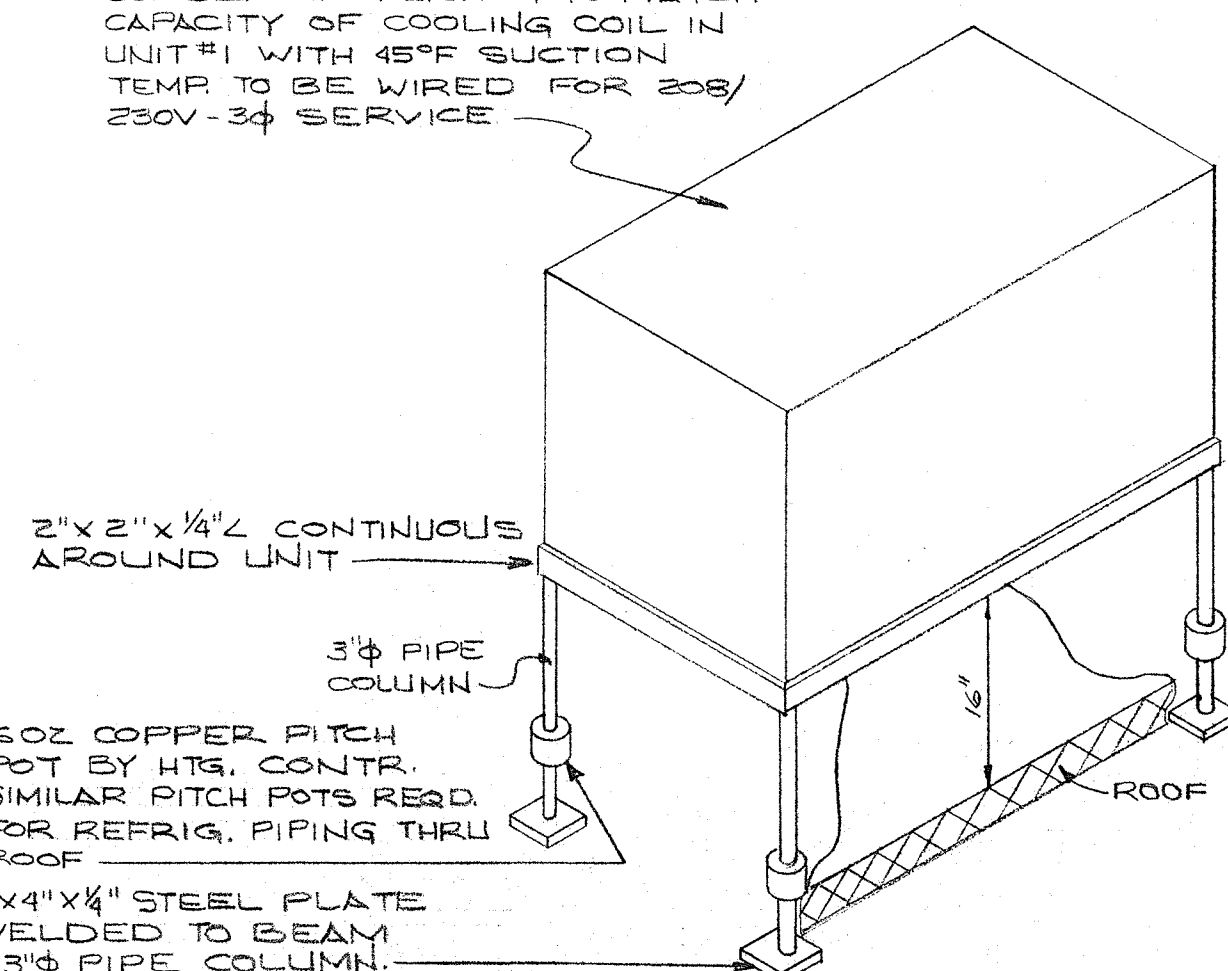
*PRV#8 TO BE EXPLOSION PROOF.



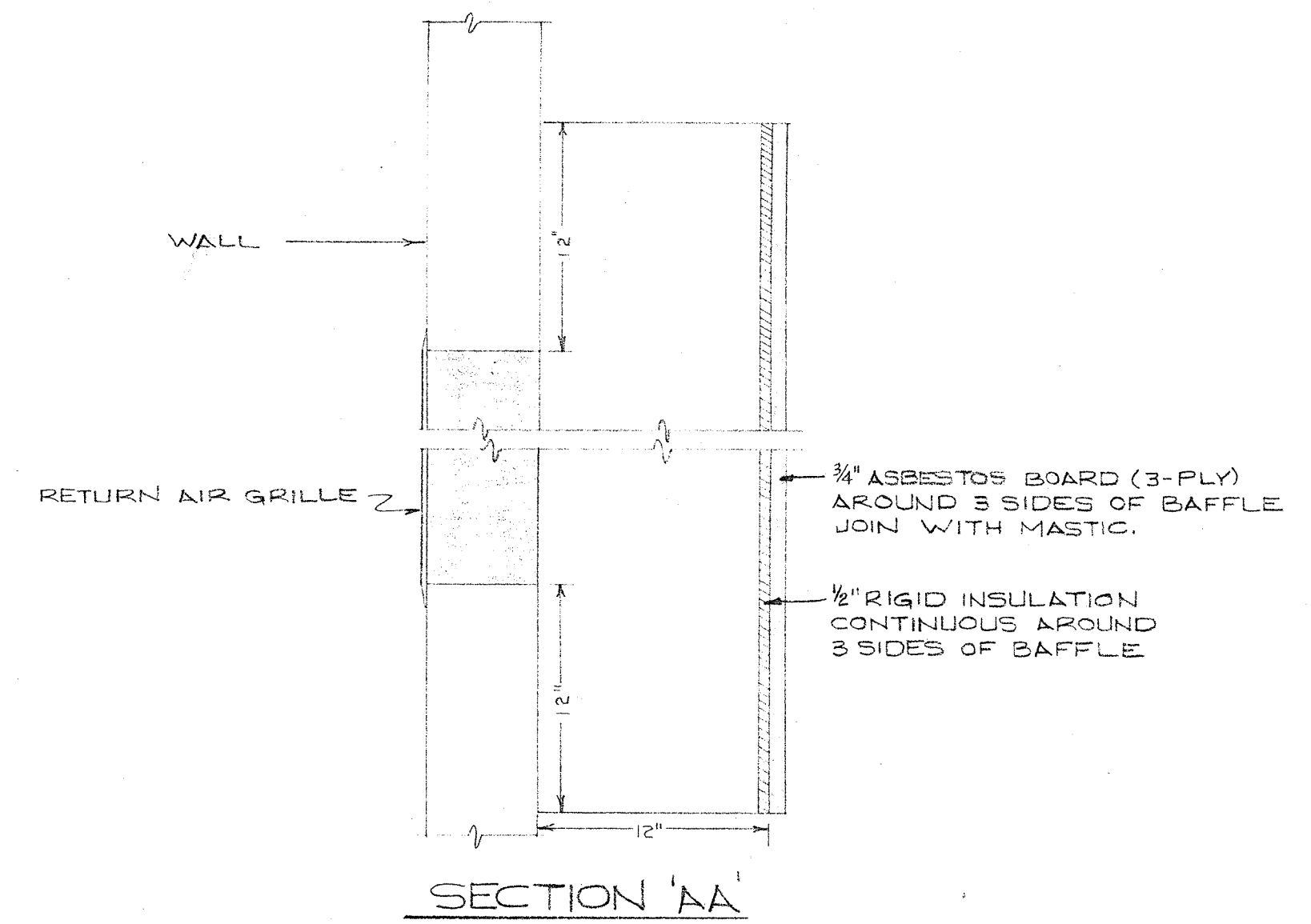
307 TYPICAL POWER ROOF VENTILATOR DETAIL
NO SCALE

CONDENSING UNIT #1 TO MATCH CAPACITY OF COOLING COIL IN UNIT #1 WITH 45°F SUCTION TEMP. TO BE WIRED FOR 208/230V-3Φ SERVICE.

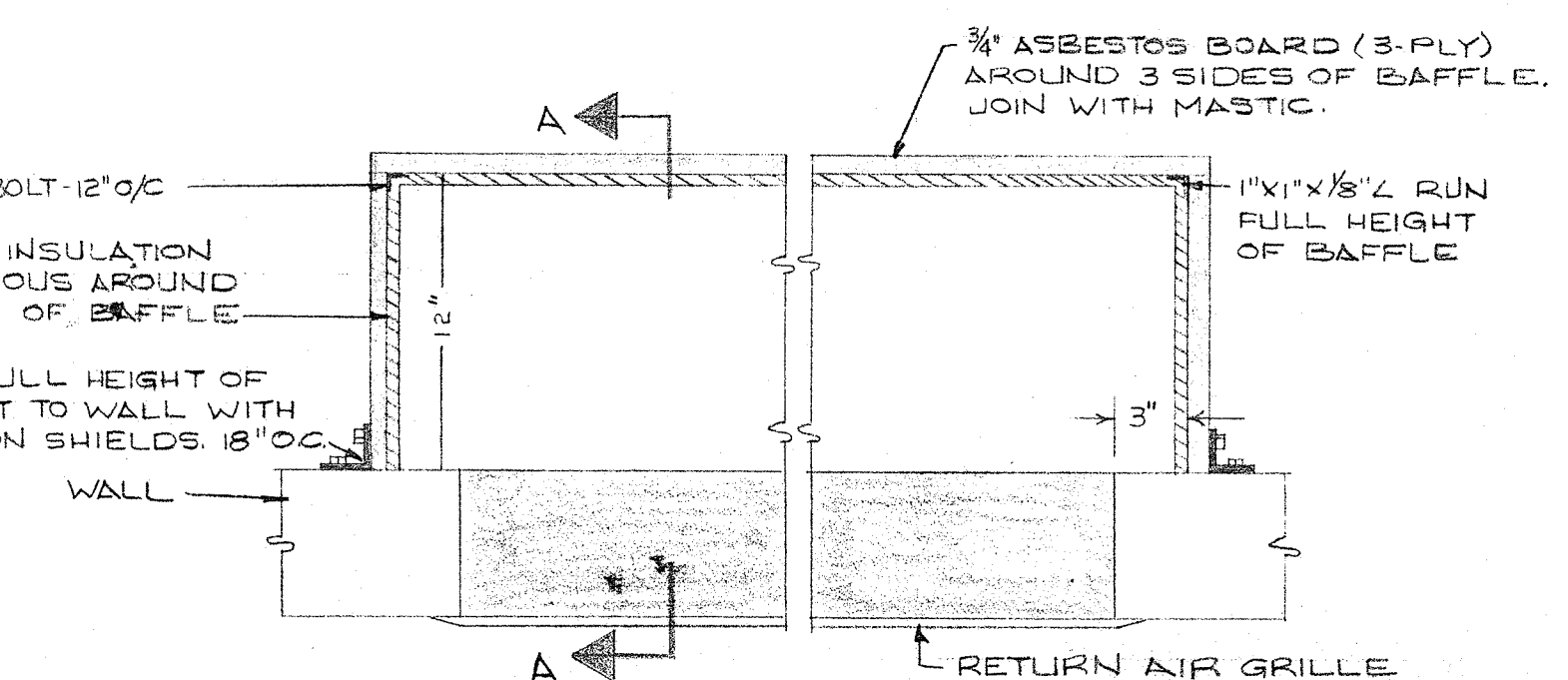
CONDENSING UNIT #2 & FRAME, UNDER ALTERNATE BID, 3Φ PIPE COLUMNS & ALL PITCH POTS FOR UNITS #1 & #2 TO BE INSTALLED UNDER BASE BID.



309 TYPICAL CONDENSING UNIT MOUNTING DETAIL - ADD ALT
NO SCALE



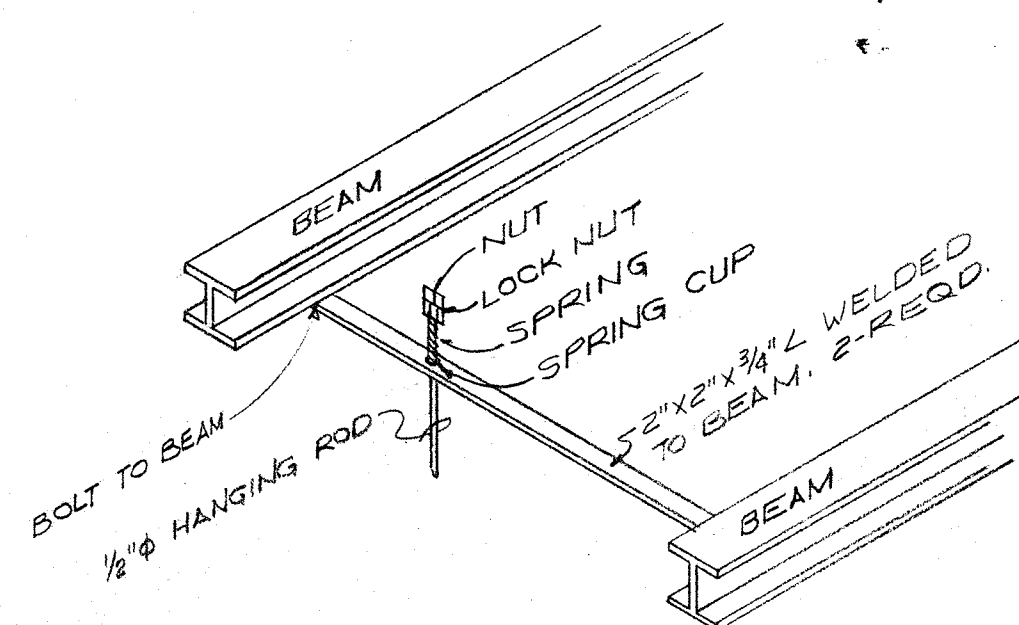
SECTION 'AA'



PLAN VIEW

308 SOUNDTRAP DETAILS

310 HANGING DETAIL FOR UNITS #3 & #4



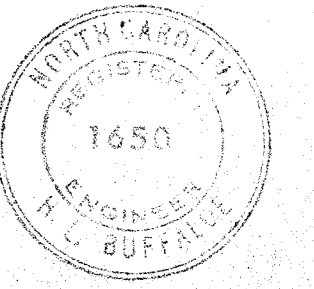
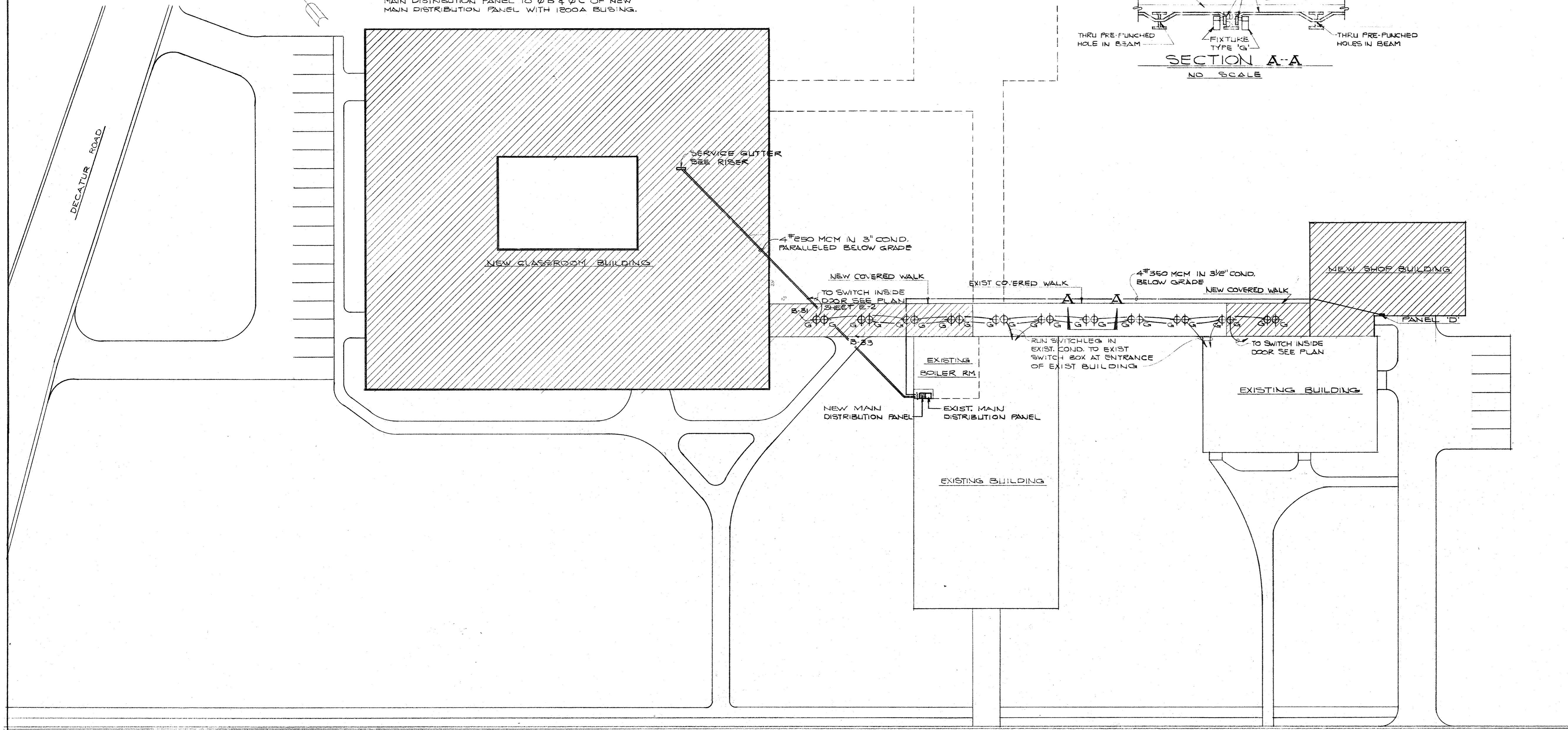
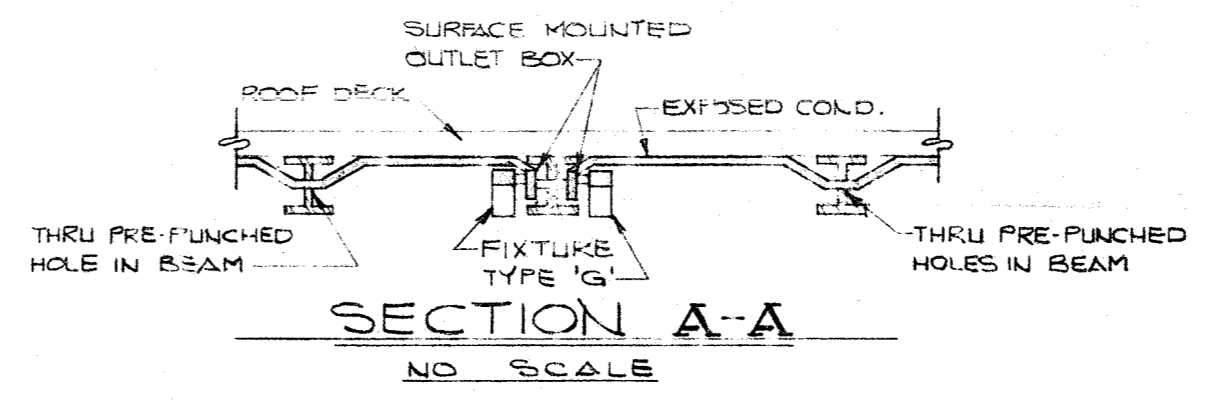
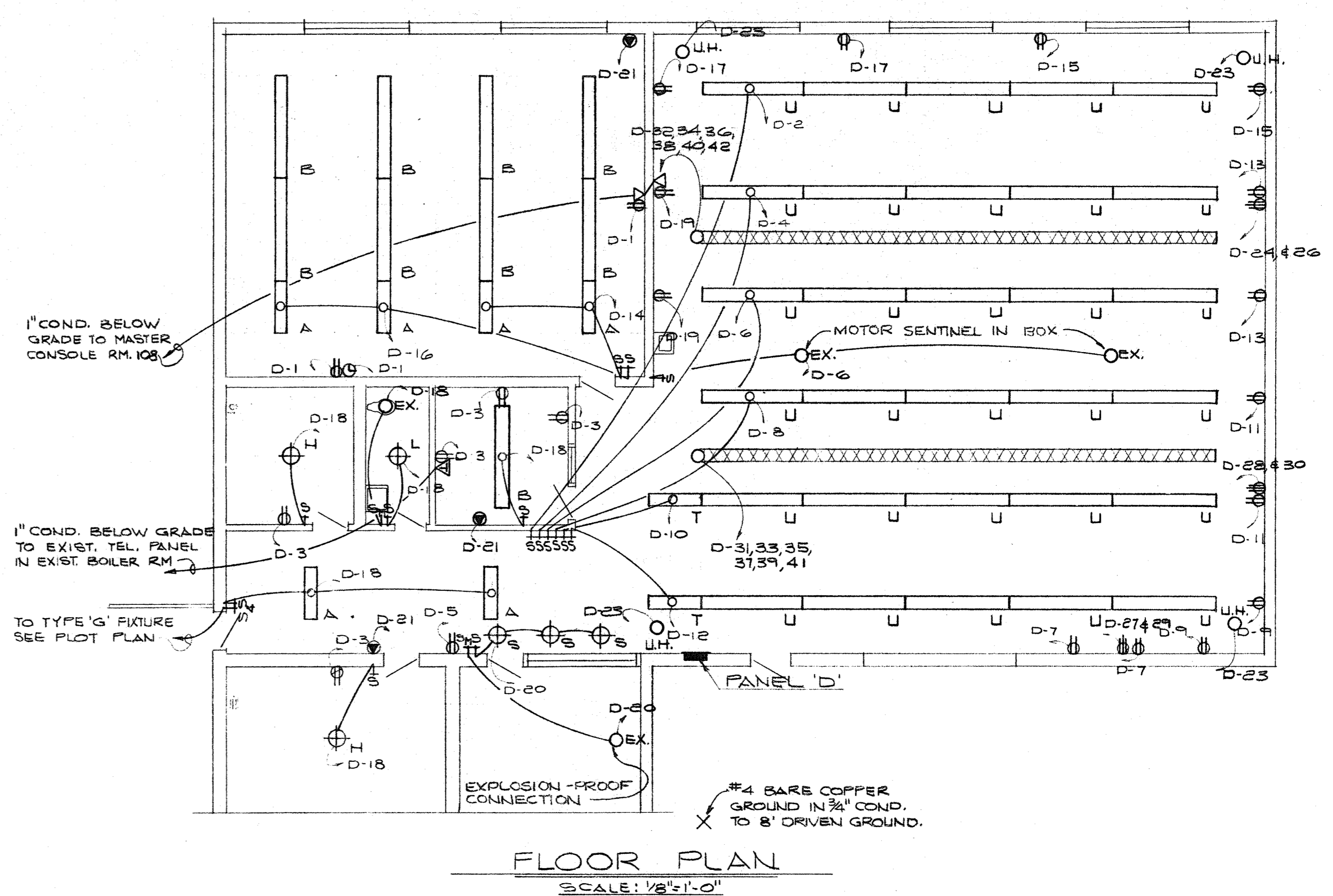
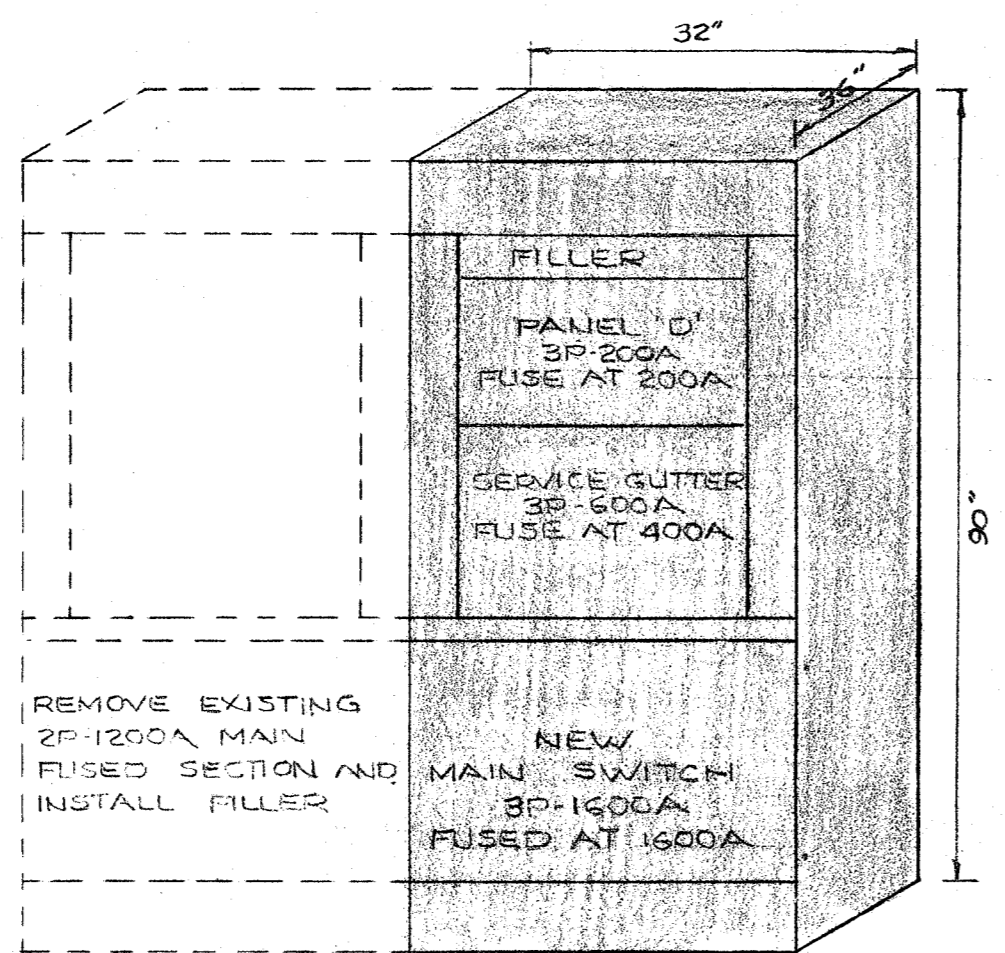
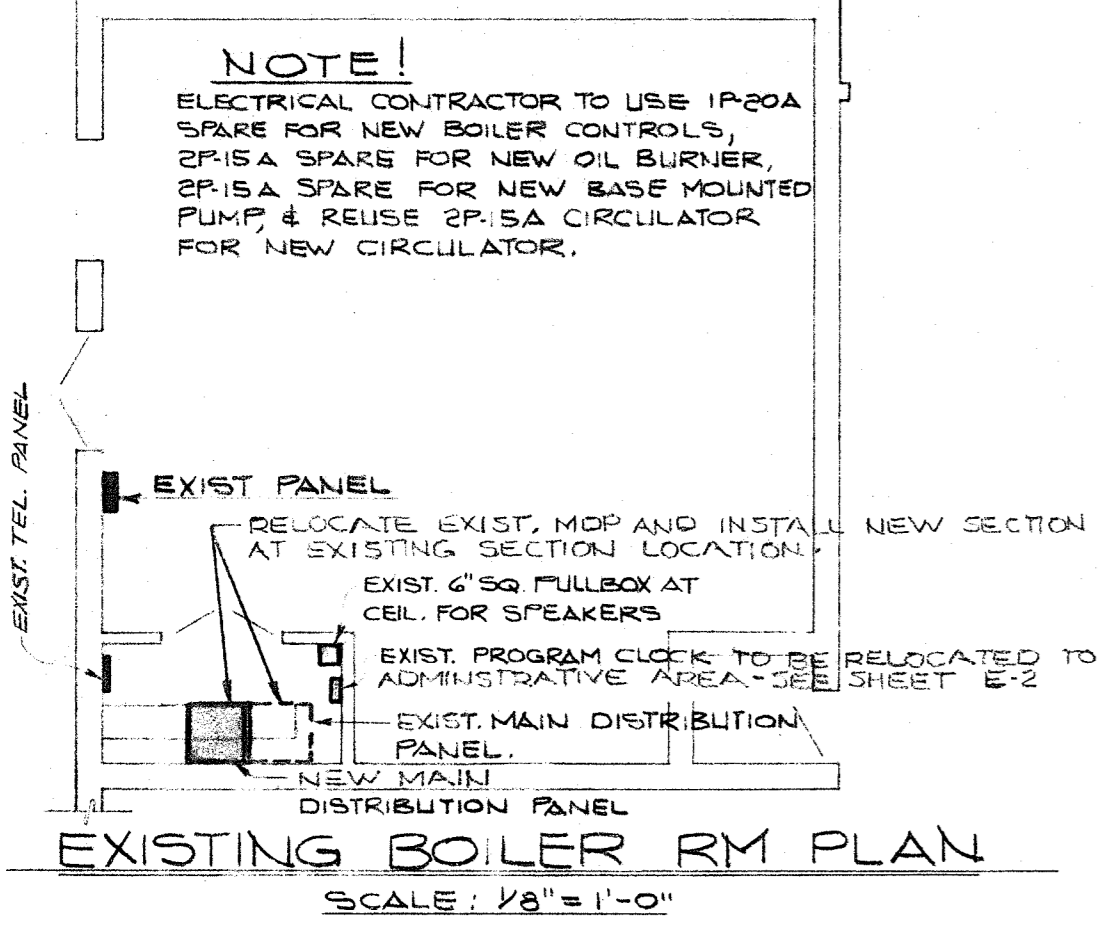
LEGEND

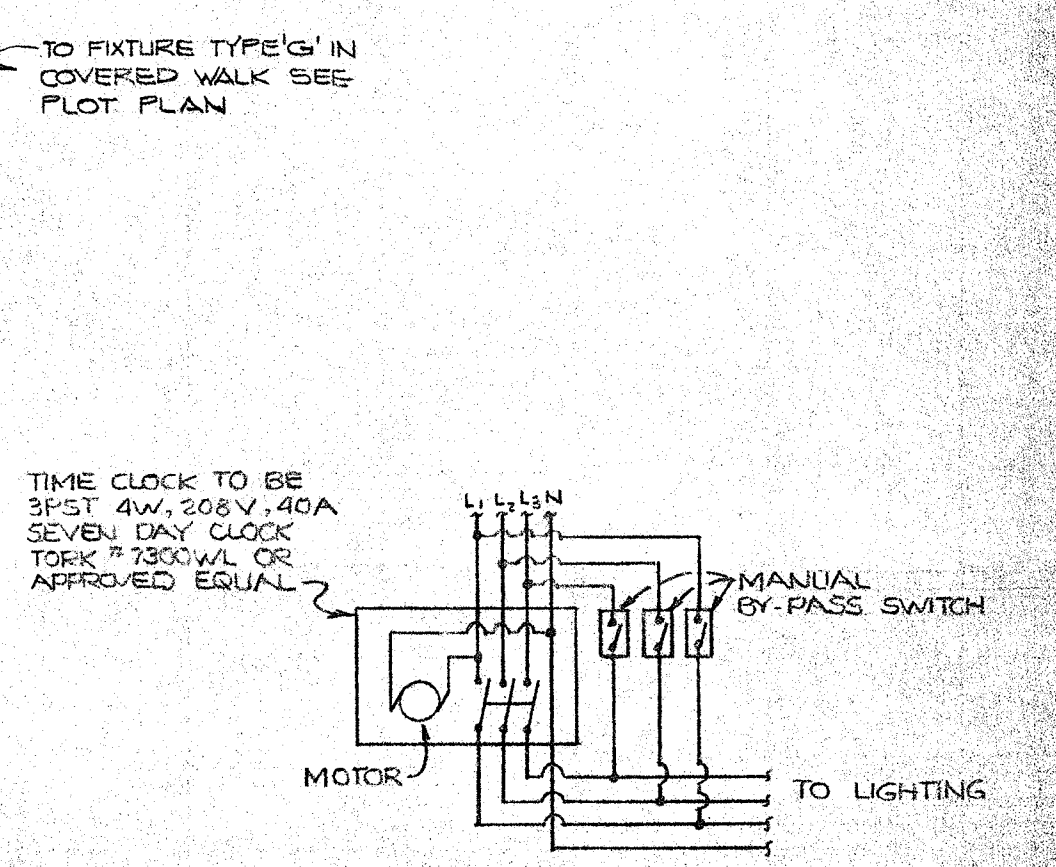
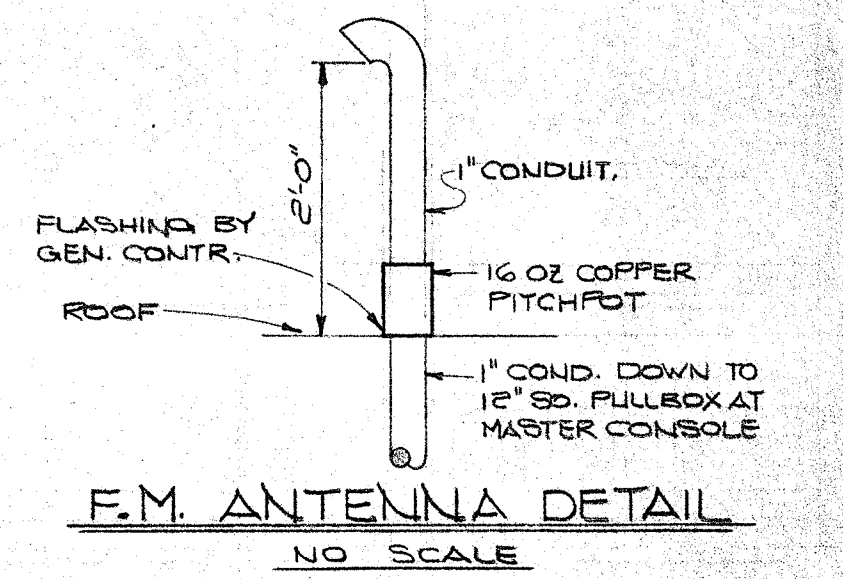
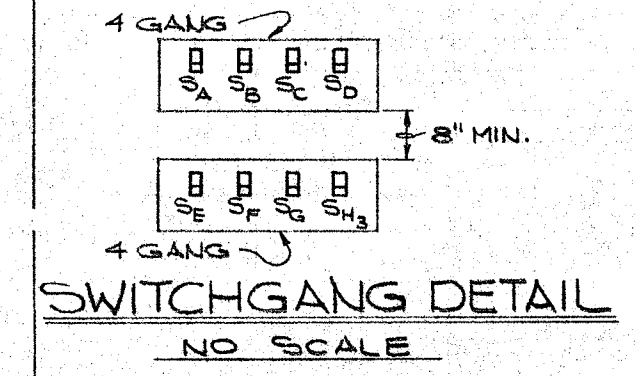
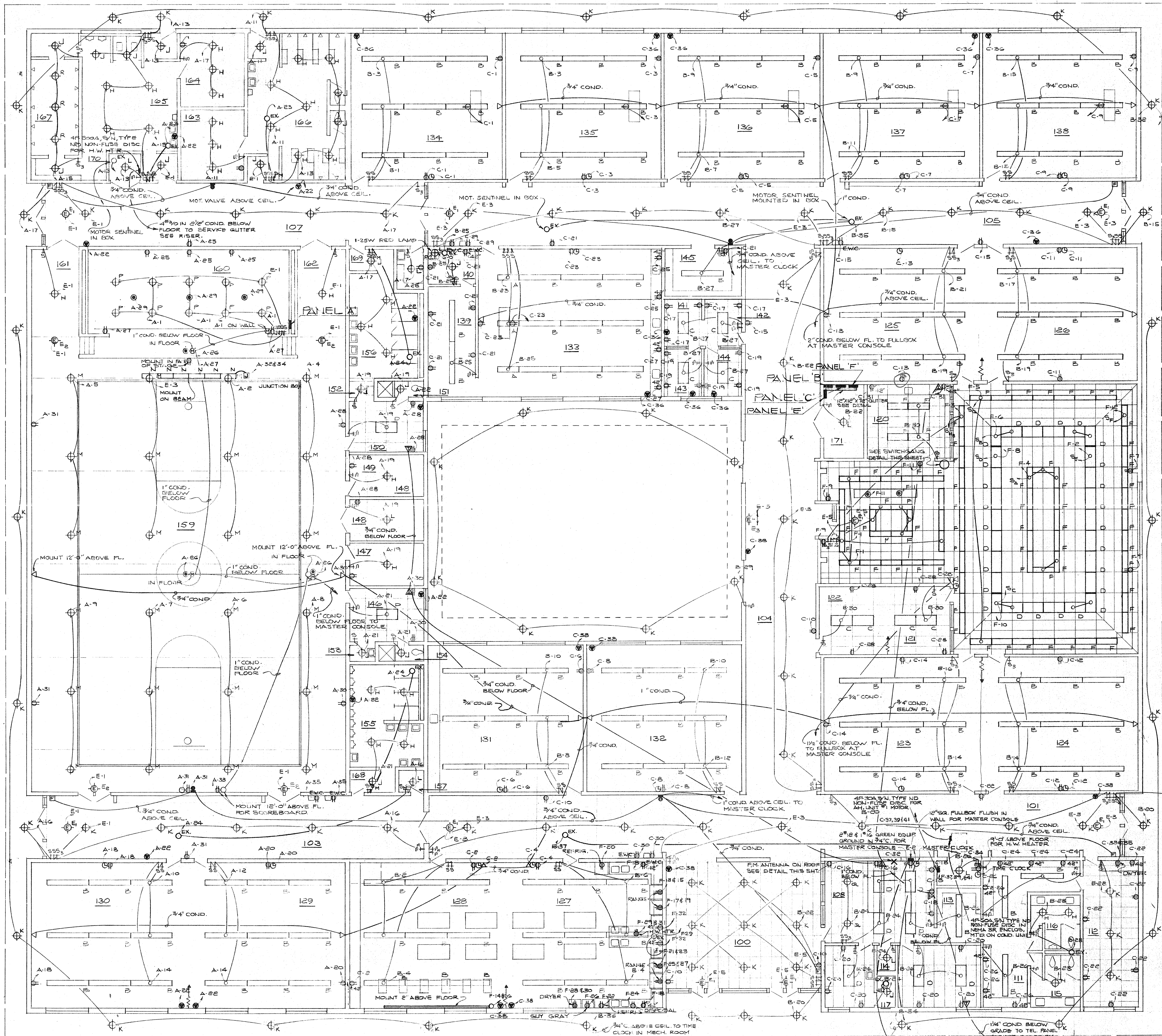
⊕	FLUORESCENT FIXTURE
⊕	INCANDESCENT FIXTURE
⊕	EXIT FIXTURE
⊕	120 VOLT DUPLEX RECEPTACLE
⊕	120 VOLT RECEPTACLE IN FLOOR BOX
⊕	208 VOLT RECEPTACLE
⊕	OUTLET FOR MOTORIZED VALVE
⊕	OUTLET FOR EXHAUST FAN
⊕	OUTLET FOR UNIT HEATER
⊕	OUTLET FOR CLOCK
⊕	OUTLET BOX
⊕	OUTLET FOR MICROPHONE
⊕	BELL
⊕	SPEAKER
⊕	OUTLET FOR TELEPHONE
⊕	FIRE ALARM BREAK-GLASS STATION
⊕	SWITCH
⊕	3-WAY SWITCH
⊕	4-WAY SWITCH
⊕	MANUAL MOTOR SENTINEL
⊕	UNDER FLOOR DUCT
⊕	ELECTRIC WATER COOLER
⊕	PULLCHAIN
⊕	WEATHERPROOF
⊕	PLUG MOLD (MOUNT 2" ABOVE FLOOR)

CONNECTED LOAD
208 VOLT, 3ϕ

LIGHTING	267.4A
RECEPTACLES	81.5A
HEATING & COOLING	198.9A
MISCELLANEOUS	264.4A
TOTAL	812.2A
EXISTING 240 VOLT, 1ϕ	
TOTAL	1064.4A
GRAND TOTAL	1876.6A

- NOTES:**
1. ALL FLUORESCENT FIXTURES TO BE EQUIPPED WITH WARM WHITE RAPID START TUBES.
 2. ALL FLUORESCENT FIXTURES TO HAVE EXTERNALLY FUSED BALLAST.
 3. ALL FLUSH MOUNTED PANELS TO HAVE 1" EMPTY CONDUIT UP IN WALL TO 4" SQUARE FULCRUM ABOVE CEILING.
 4. ALL PANELS TO HAVE 1P-60AMP BREAKERS UNLESS OTHERWISE INDICATED.

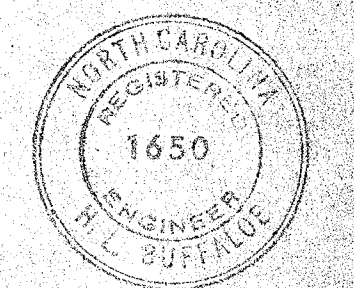


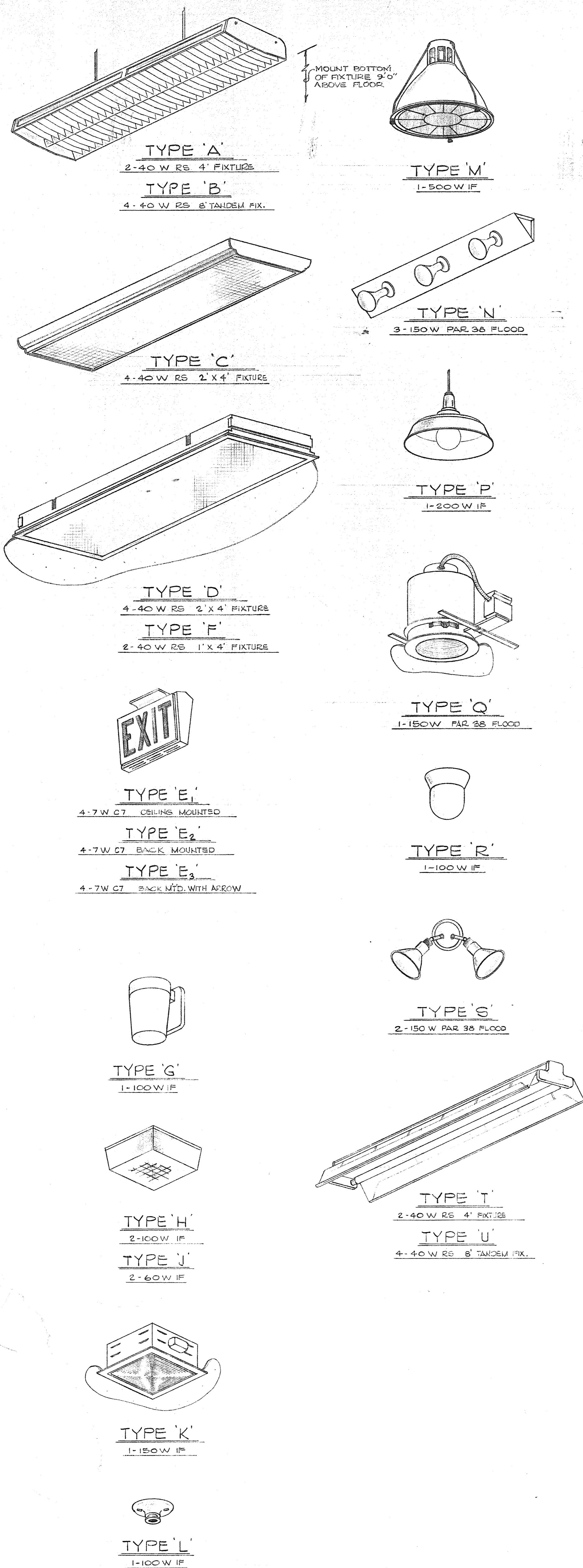


NOTE!
CONDUIT FOR SOUND SYSTEM IS TO BE RUN BELOW FLOOR AND UP IN WALL TO SPEAKER UNLESS NOTED OTHERWISE ON PLAN.

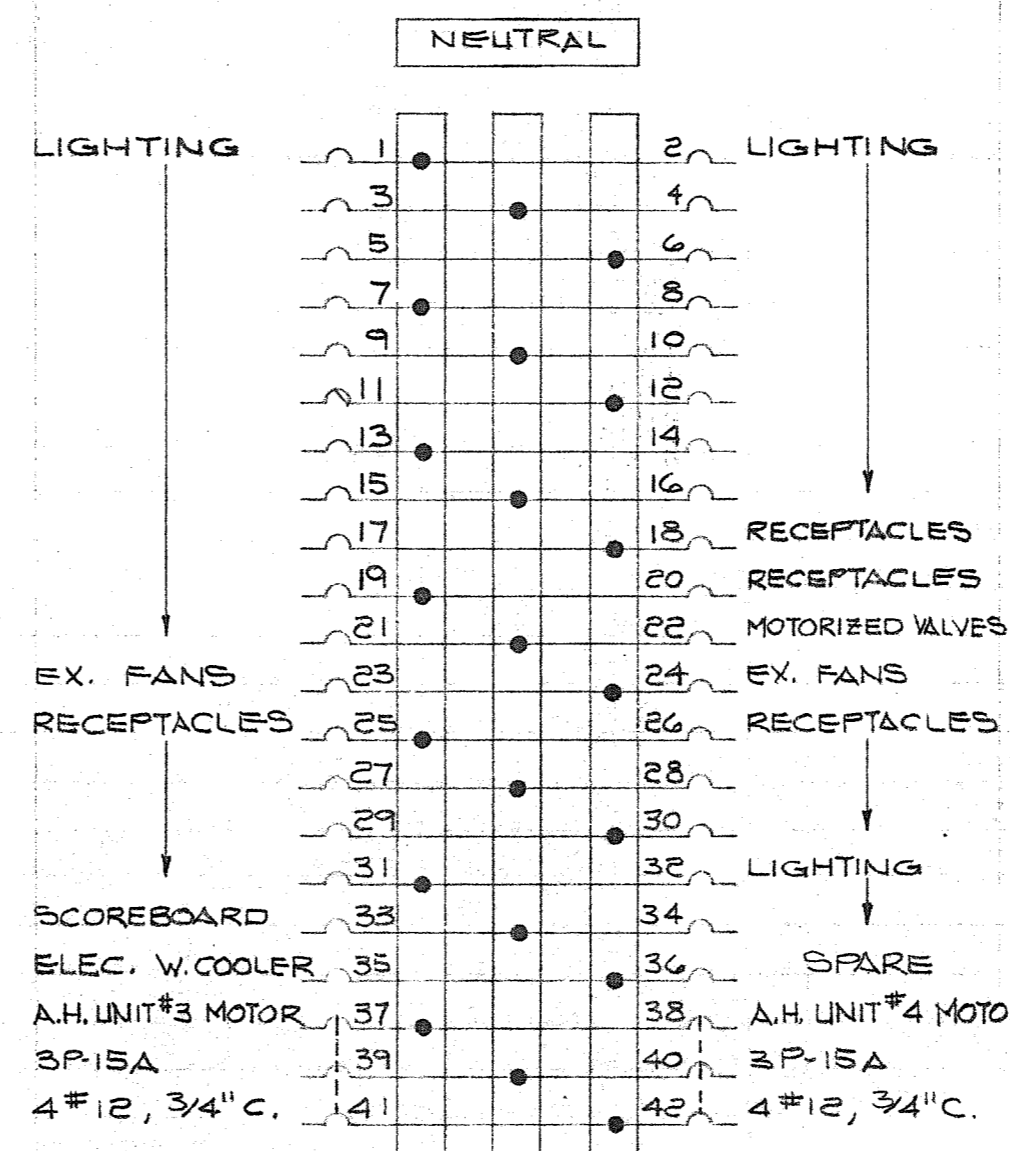
FLOOR PLAN
SCALE 1/8" = 1'-0"

1/4" CONDUIT BELOW GRADE TO EXIST. BOX IN BOILER RM. FROM RELOCATED PROGRAM CLOCK.
1/4" CONDUIT ABOVE CEIL. TO TIME CLOCK IN MECH. ROOM.
POINT OF GROUND CONNECTION TO LINE SIDE OF C.W. CUT-OFF VALVE IN BOX.

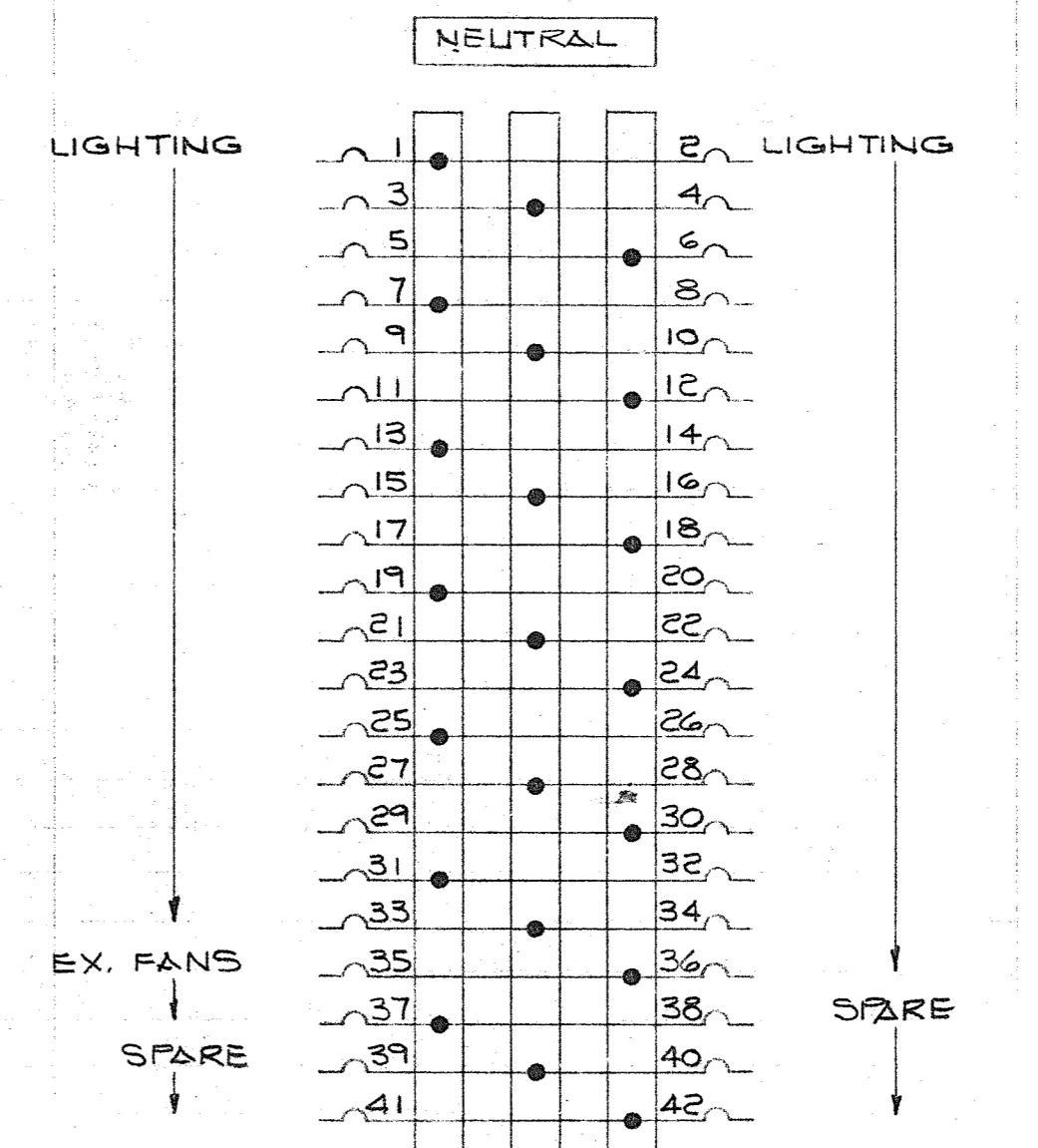




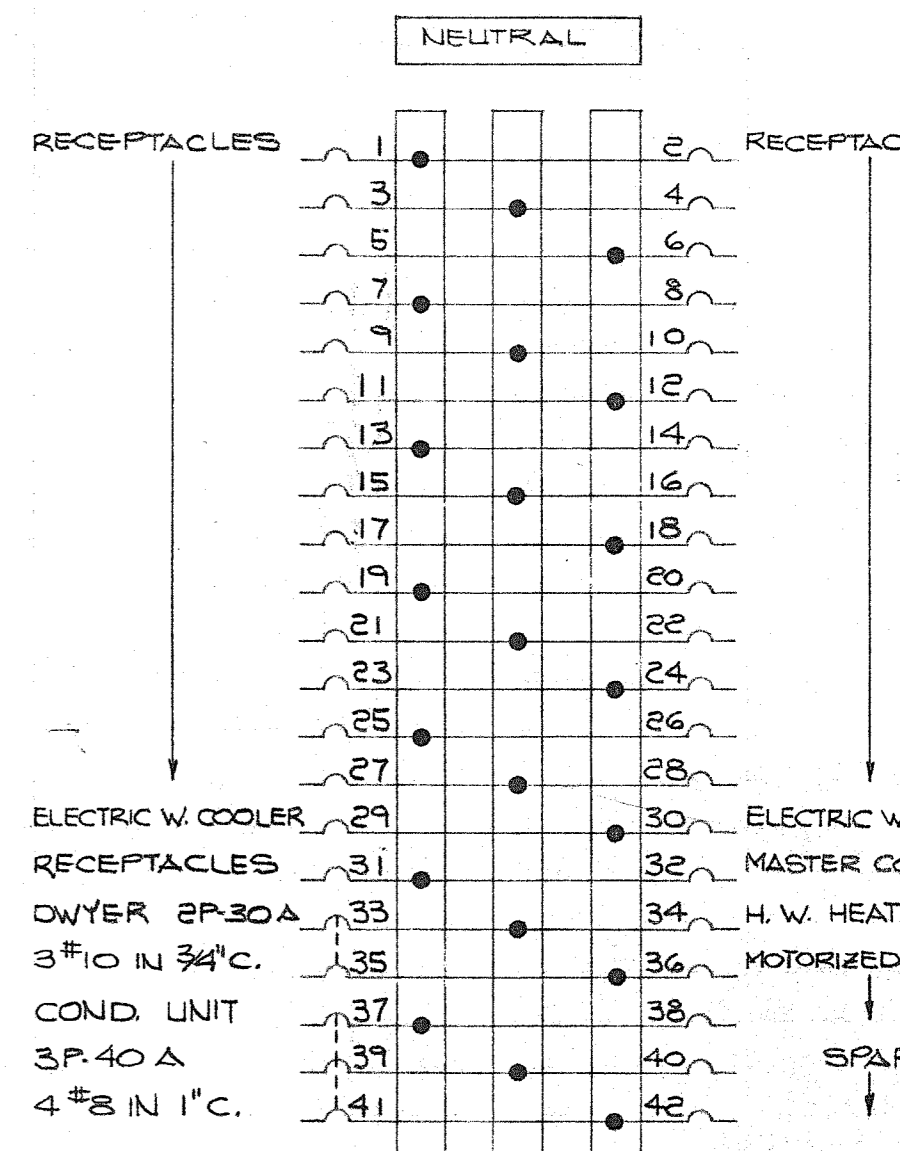
PANEL 'A' FLUSH MOUNT TYPE NQ08
120/208 VOLT, 4 WIRE, 30, A.C., 5/N, 225A MAINS
WITH 225 A MAIN BREAKER.



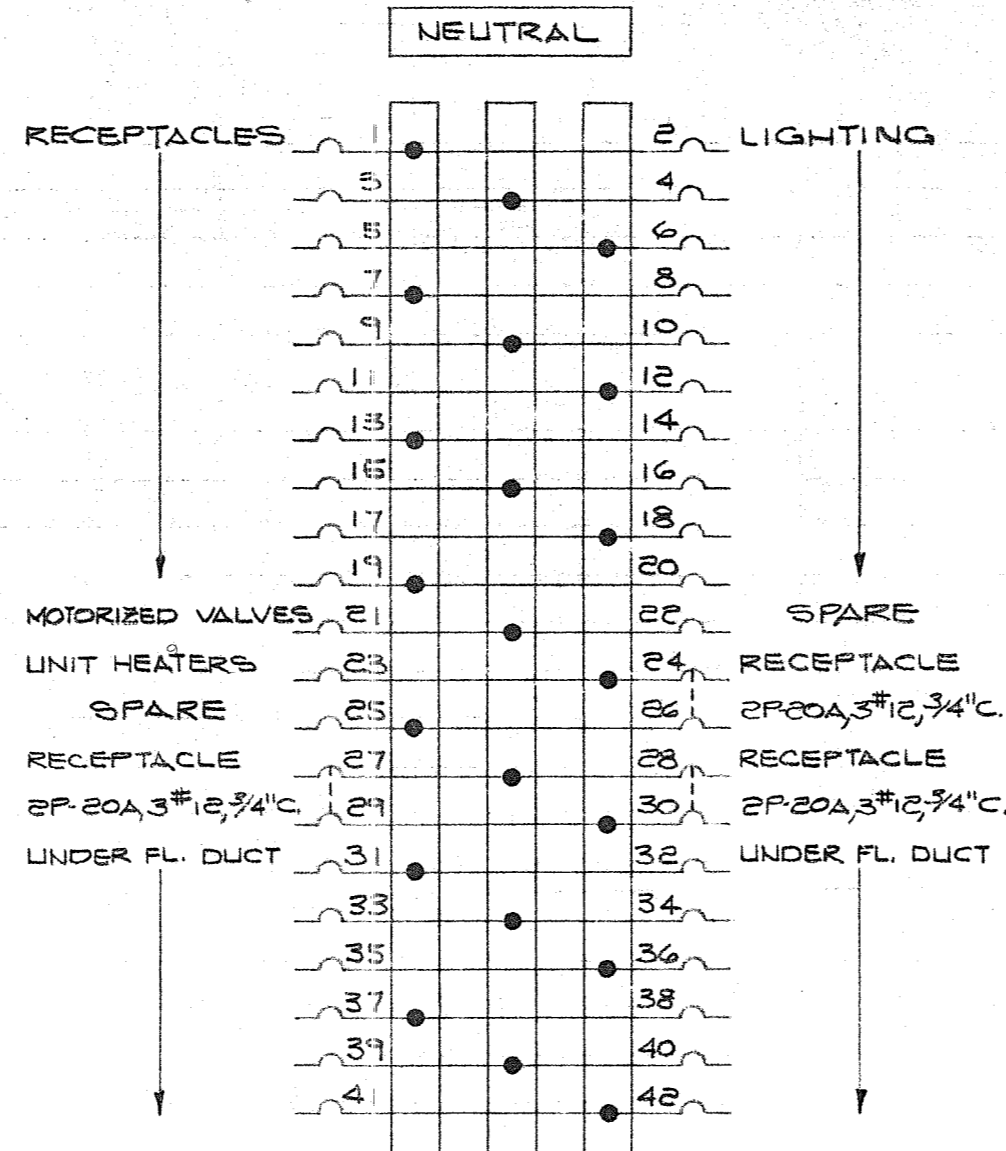
PANEL 'B' SURFACE MOUNT TYPE NQ08
120/208 VOLT, 4 WIRE, 30, A.C., 5/N, 225A MAINS
WITH 100 A MAIN BREAKER.



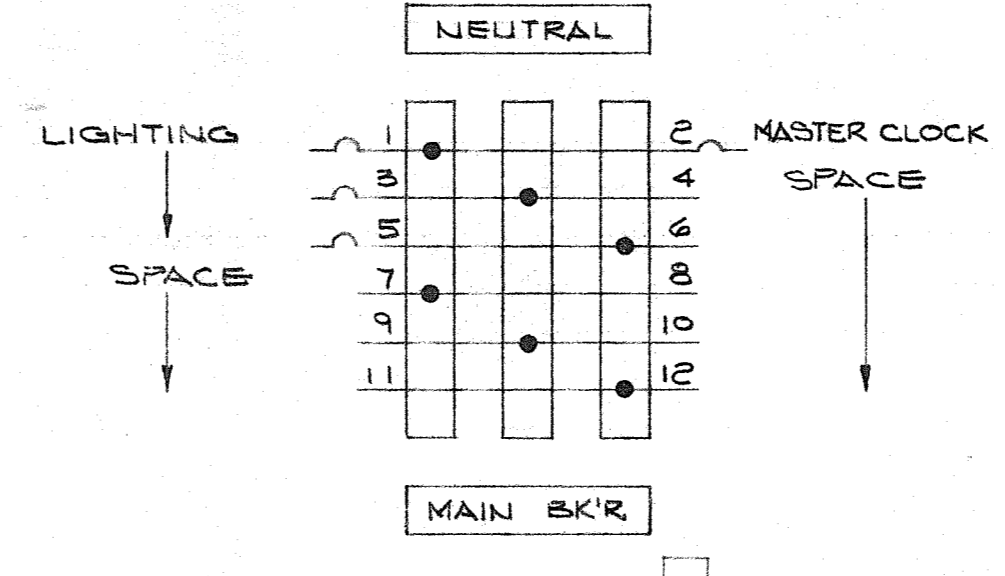
PANEL 'C' SURFACE MOUNT TYPE NQ08
120/208 VOLT, 4 WIRE, 30, A.C., 5/N, 225A MAINS
WITH 100 A MAIN BREAKER.



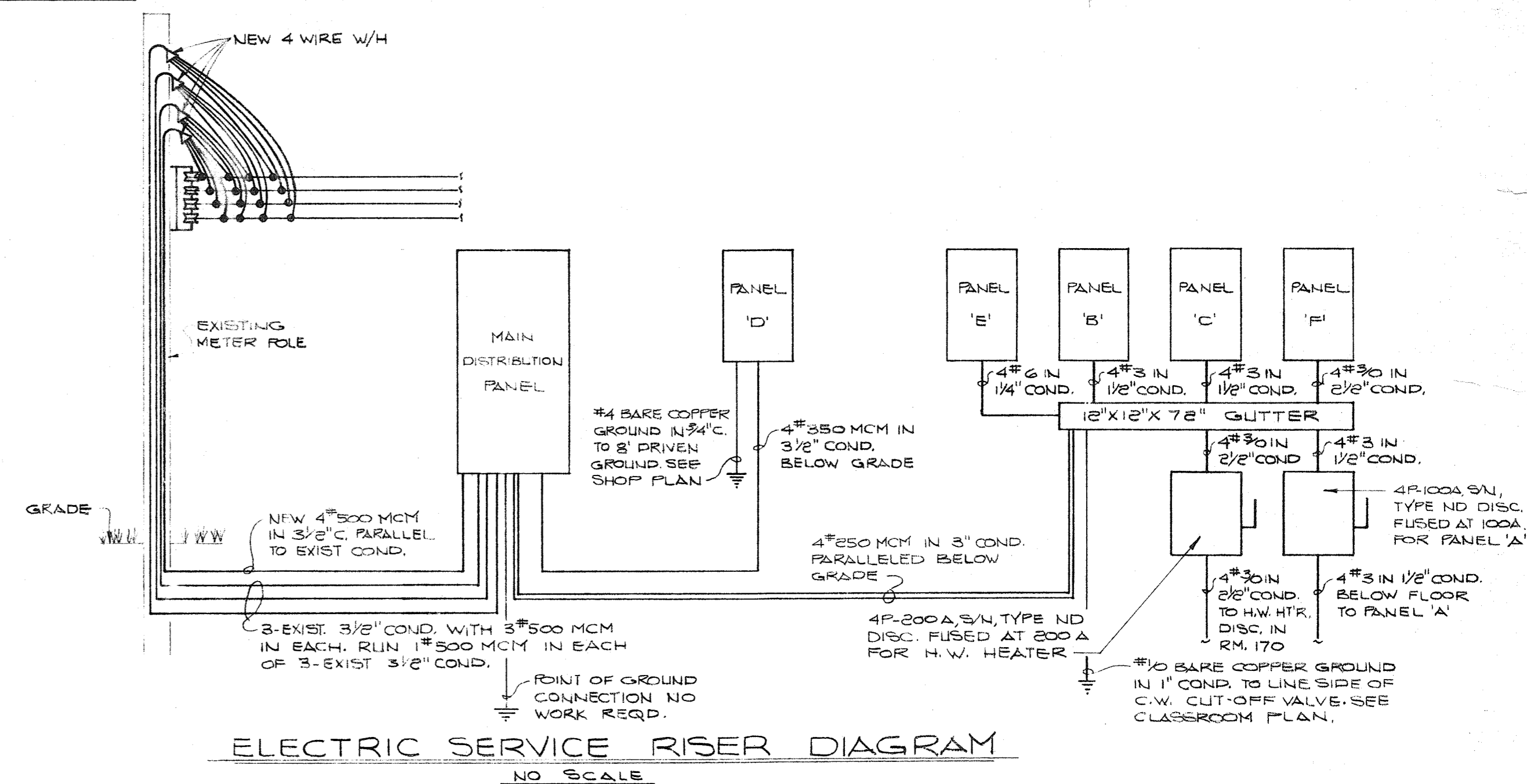
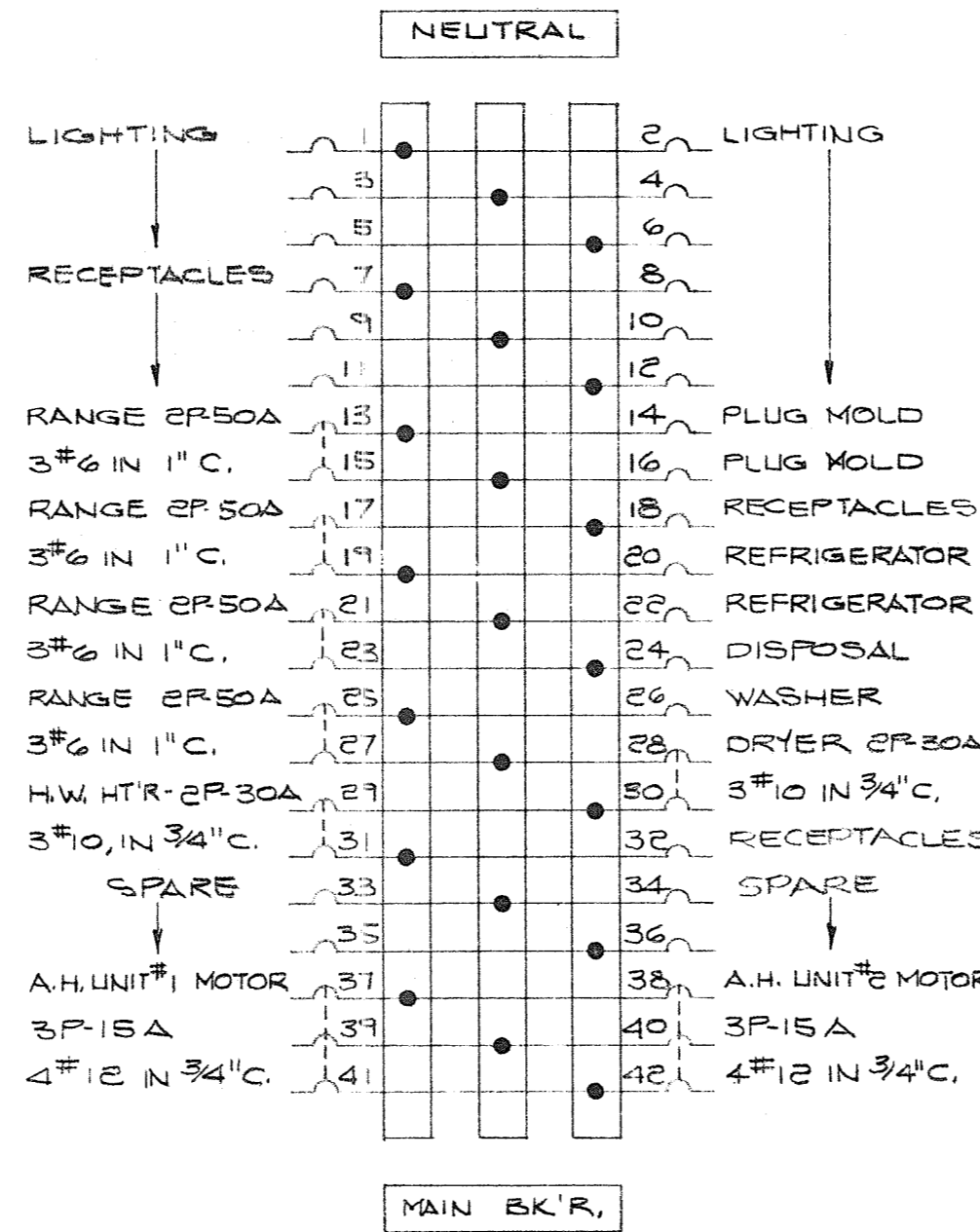
PANEL 'D' FLUSH MOUNT TYPE NQ08
120/208 VOLT, 4 WIRE, 30, A.C., 5/N, 225A MAINS
WITH 225 A MAIN BREAKER.



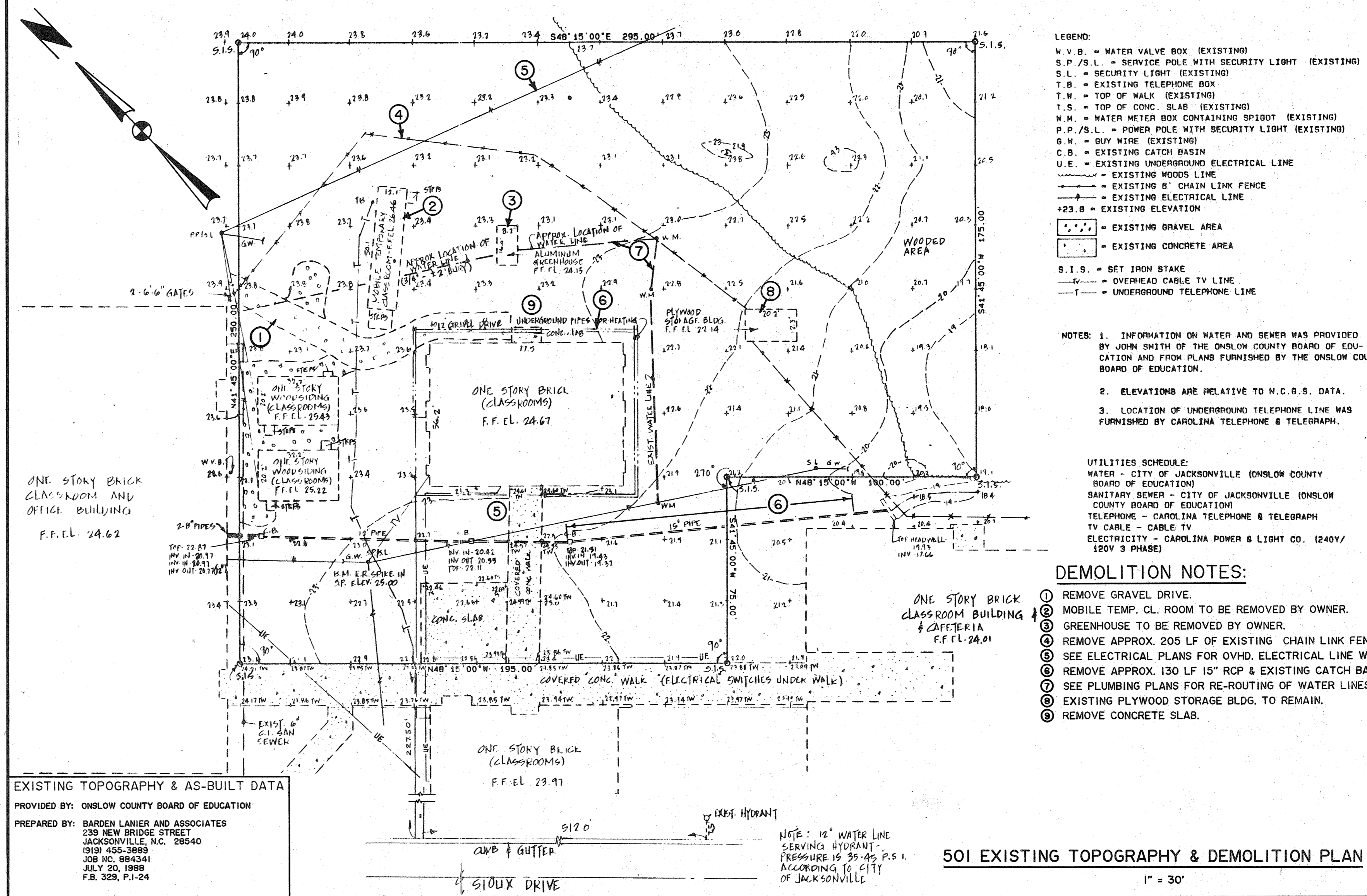
PANEL 'E' SURFACE MOUNT TYPE NQ08
120/208 VOLT, 4 WIRE, 30, A.C., 5/N, 100A MAINS
WITH 50 A MAIN BREAKER.



PANEL 'F' SURFACE MOUNT TYPE NQ08
120/208 VOLT, 4 WIRE, 30, A.C., 5/N, 225A MAINS
WITH 225 A MAIN BREAKER.



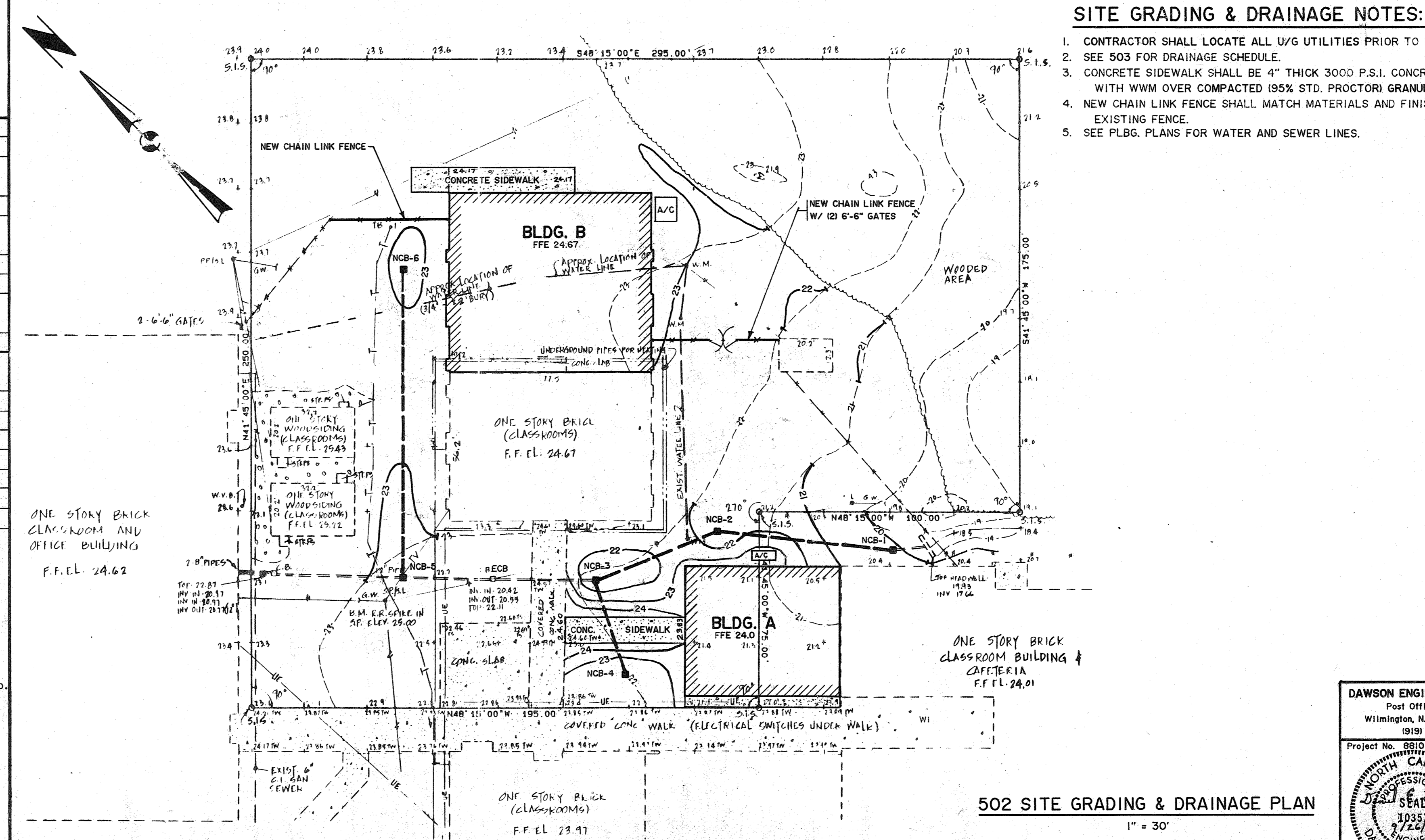
NORTHWOODS PARK MIDDLE SCHOOL
CLASSROOM BUILDING ADDITIONS
 Jacksonville, North Carolina



- LEGEND:**
- W.V.B. = WATER VALVE BOX (EXISTING)
 - S.P./S.L. = SERVICE POLE WITH SECURITY LIGHT (EXISTING)
 - S.L. = SECURITY LIGHT (EXISTING)
 - T.B. = EXISTING TELEPHONE BOX
 - T.W. = TOP OF WALK (EXISTING)
 - T.S. = TOP OF CONC. SLAB (EXISTING)
 - W.M. = WATER METER BOX CONTAINING SPIGOT (EXISTING)
 - P.P./S.L. = POWER POLE WITH SECURITY LIGHT (EXISTING)
 - O.W. = OIL WIRE (EXISTING)
 - C.B. = EXISTING CATCH BASIN
 - E.U. = EXISTING UNDERGROUND ELECTRICAL LINE
 - - - - - EXISTING WOODS LINE
 - - - - - EXISTING CHAIN LINK FENCE
 - - - - - EXISTING ELECTRICAL LINE
 - +23.8 = EXISTING ELEVATION
 - □ □ = EXISTING GRAVEL AREA
 - □ □ = EXISTING CONCRETE AREA
 - S.I.S. = SET IRON STAKE
 - - - - - OVERHEAD CABLE TV LINE
 - - - - - UNDERGROUND TELEPHONE LINE
- NOTES:**
1. INFORMATION ON WATER AND SEWER WAS PROVIDED BY JOHN SMITH OF THE ONSLOW COUNTY BOARD OF EDUCATION AND FROM PLANS FURNISHED BY THE ONSLOW COUNTY BOARD OF EDUCATION.
 2. ELEVATIONS ARE RELATIVE TO N.C.G.S. DATA.
 3. LOCATION OF UNDERGROUND TELEPHONE LINE WAS FURNISHED BY CAROLINA TELEPHONE & TELEGRAPH.
- UTILITIES SCHEDULE:**
- WATER - CITY OF JACKSONVILLE (ONSLAW COUNTY BOARD OF EDUCATION)
 - SANITARY SEWER - CITY OF JACKSONVILLE (ONSLAW COUNTY BOARD OF EDUCATION)
 - TELEPHONE - CAROLINA TELEPHONE & TELEGRAPH
 - TV CABLE - CABLE TV
 - ELECTRICITY - CAROLINA POWER & LIGHT CO. (240V/ 120V 3 PHASE)
- DEMOLITION NOTES:**
- ① REMOVE GRAVEL DRIVE.
 - ② MOBILE TEMP. CL. ROOM TO BE REMOVED BY OWNER.
 - ③ GREENHOUSE TO BE REMOVED BY OWNER.
 - ④ REMOVE APPROX. 205 LF OF EXISTING CHAIN LINK FENCE.
 - ⑤ SEE ELECTRICAL PLANS FOR OVHD. ELECTRICAL LINE WORK.
 - ⑥ REMOVE APPROX. 130 LF 15" RCP & EXISTING CATCH BASIN.
 - ⑦ SEE PLUMBING PLANS FOR RE-ROUTING OF WATER LINES.
 - ⑧ EXISTING PLYWOOD STORAGE BLDG. TO REMAIN.
 - ⑨ REMOVE CONCRETE SLAB.

EXISTING TOPOGRAPHY & AS-BUILT DATA
 PROVIDED BY: ONSLOW COUNTY BOARD OF EDUCATION
 PREPARED BY: BARDEN LANIER AND ASSOCIATES
 238 NEW BRIDGE STREET
 JACKSONVILLE, N.C. 28540
 (919) 455-3889
 JOB NO. 884341
 JULY 20, 1988
 F.B. 329, P.I.-24

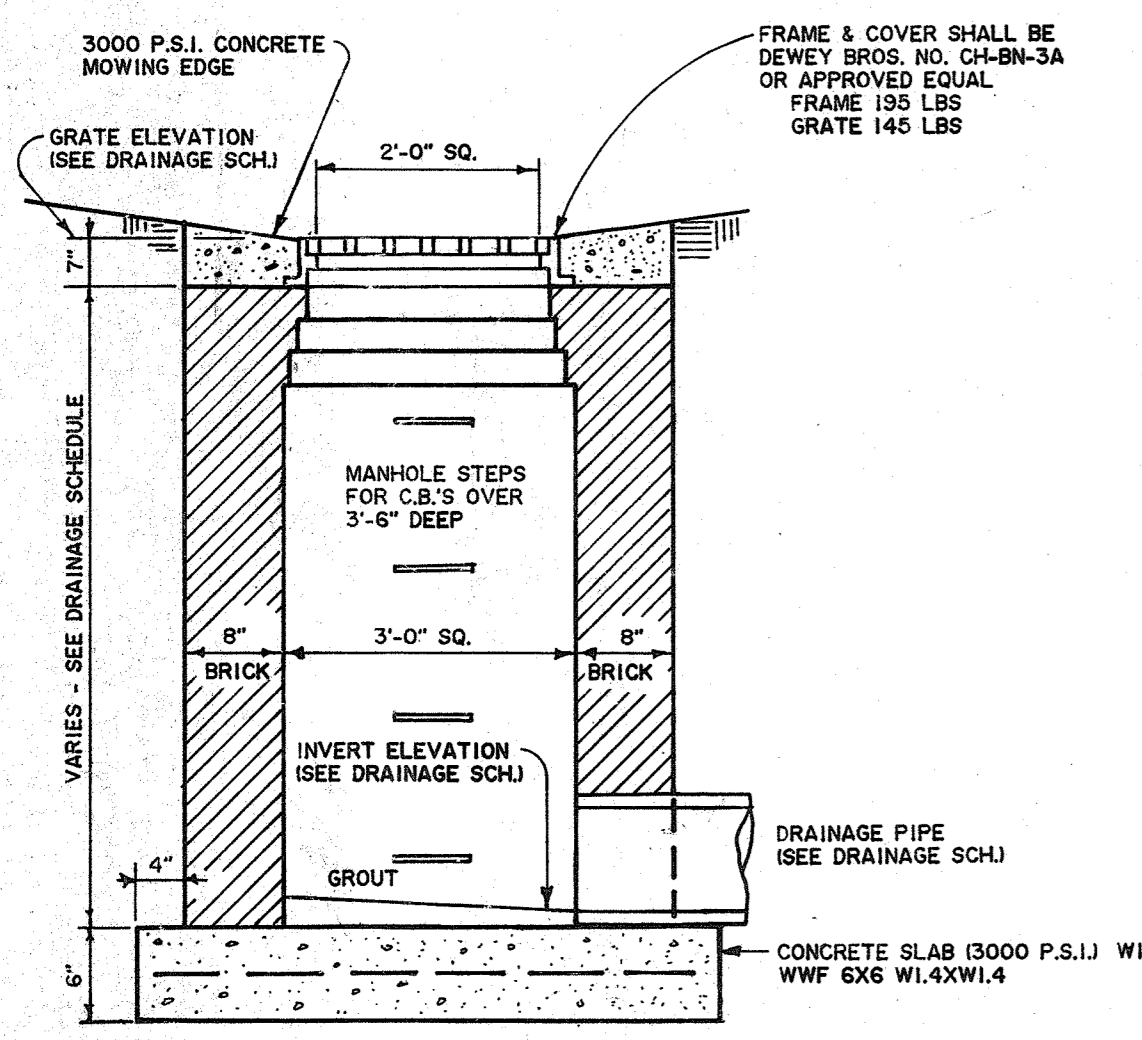
501 EXISTING TOPOGRAPHY & DEMOLITION PLAN
 1" = 30'



- SITE GRADING & DRAINAGE NOTES:**
1. CONTRACTOR SHALL LOCATE ALL U/G UTILITIES PRIOR TO DIGGING.
 2. SEE 503 FOR DRAINAGE SCHEDULE.
 3. CONCRETE SIDEWALK SHALL BE 4" THICK 3000 P.S.I. CONCRETE WITH W/M OVER COMPACTED 19% STD. PROCTOR GRANULAR FILL.
 4. NEW CHAIN LINK FENCE SHALL MATCH MATERIALS AND FINISH OF EXISTING FENCE.
 5. SEE PLBG. PLANS FOR WATER AND SEWER LINES.

DRAINAGE SCHEDULE							
STRUCTURE DATA			PIPE DATA			REMARKS	
STRUCT. ID.	DETAIL NO.	GRATE ELEV.	INVERT ELEV.	DIA. (IN)	LENGTH (FT)		SLOPE (%)
NORTHWOODS PARK							
NCB-1	504	20.10	17.86	15	68	1.28	TIE INTO EXISTING LINE APPROX. 14 FT. FROM HW
NCB-2	504	21.80	18.73	15	50	1.28	
NCB-3	504	21.40	19.37	12	38	0.40	REPLACE EXISTING C.B. AND CONNECT TO EXIST. 12" RCP
NCB-4	504	22.00	19.52	12	120	0.40	
NCB-5	504	22.50	20.56	12	120	0.40	TIE INTO EXISTING 12" RCP APPROX. 35 FT. FROM ECB
NCB-6	504	22.80	21.04	12	120	0.40	
TREKLER							
ECB	---	49.75	46.80	15	205	0.50	TIE INTO ECB
NCB-7	504	50.75	47.80	12	82	1.16	
NCB-8	504	51.75	48.75	12	82	1.16	

- NOTES:**
1. NCB = NEW CATCH BASIN. ECB = EXISTING CATCH BASIN.
 2. PIPE LENGTHS INDICATED ARE APPROXIMATE. (BASED ON CENTER OF STRUCTURE TO CENTER OF STRUCTURE ESTIMATED DISTANCES)
 3. DUE TO INSUFFICIENT PIPE COVER, CONTRACTOR SHALL PROTECT PIPES FROM CONSTRUCTION TRAFFIC AND LOADS.
 4. STORM DRAINAGE PIPE SHALL BE CLASS XII REINFORCED CONCRETE PIPE CONFORMING TO LATEST REQUIREMENTS OF A.S.T.M. STANDARD C76.
 5. PIPE BEDDING SHALL BE CLASS A, B OR C.
 6. BACKFILL SHALL BE COMPACTED TO NOT LESS THAN 95 PERCENT A.S.T.M. STANDARD D698 (STANDARD PROCTOR).
 7. PROTECT STORM DRAINAGE SYSTEM FROM SEDIMENT AND SILTATION WITH SILT FENCES, HAY BALES OR FILTER FABRIC UNTIL FINAL TURF IS ESTABLISHED. CONTRACTOR SHALL PROVIDE WATER AND FINISH ALL DRAINAGE PIPES AND STRUCTURES (NEW AND EXISTING) IF SEDIMENT OR SILT ENTERS THE DRAINAGE SYSTEM.



504 CATCH BASIN
 N.T.S.

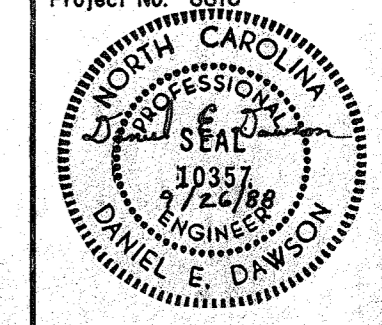
503 DRAINAGE SCHEDULE

502 SITE GRADING & DRAINAGE PLAN
 1" = 30'

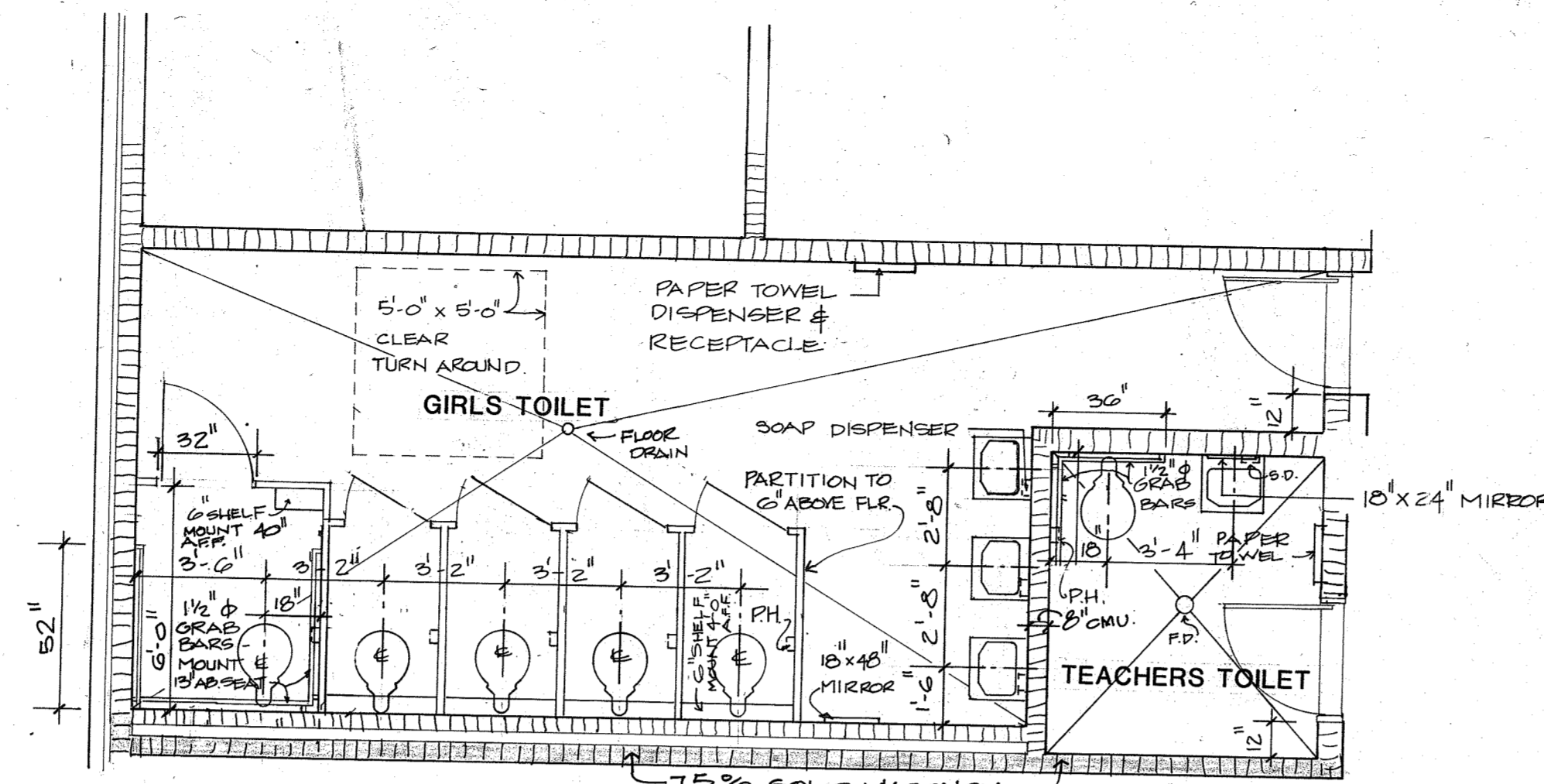
boney architects
 120 south fifth avenue
 wilmington north carolina
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designed by
CHARLES H. BONEY, AIA
 drawn by
 checked by
 date
 boney project no.

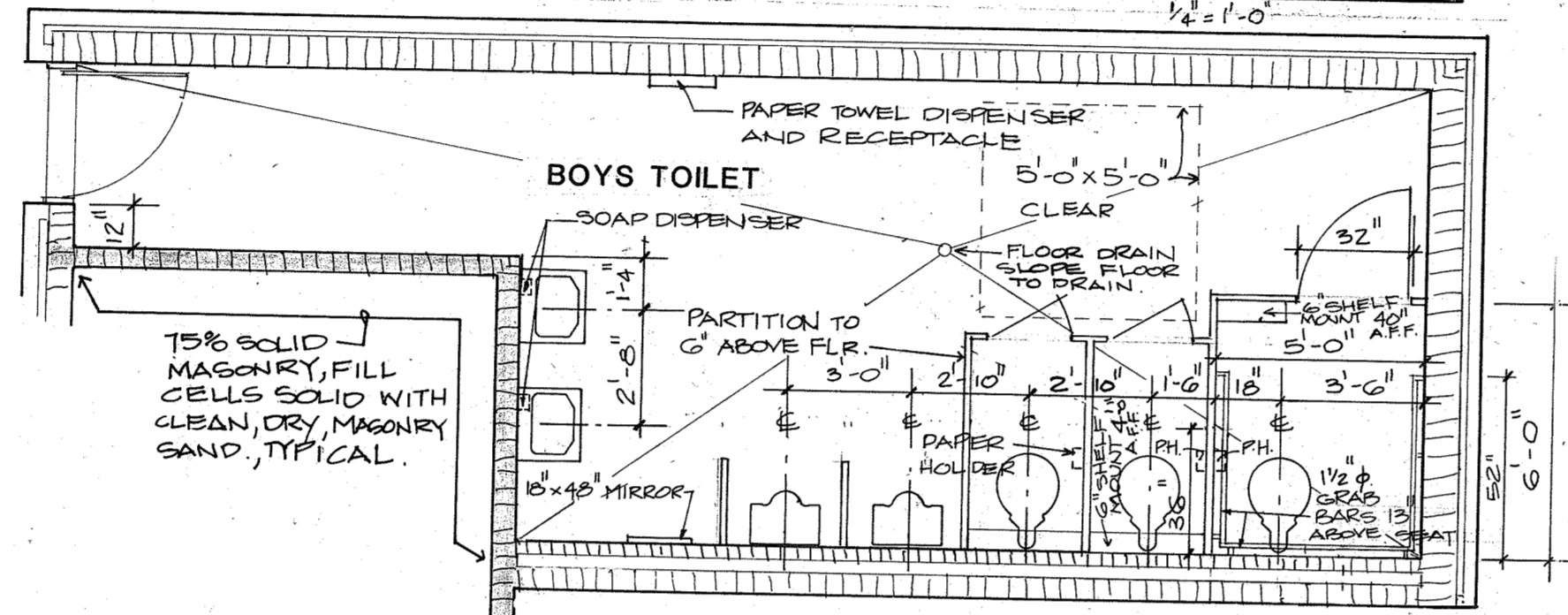
DAWSON ENGINEERING
 Post Office Box 42
 Wilmington, N.C. 28402
 (919) 762-4200



A-5
 Northwoods



1/4" GIRLS TOILET & TEACHERS TOILET PLAN
1/4" = 1'-0"



1/4" BOYS TOILET PLAN
1/4" = 1'-0"

FINISH SCHEDULE - BLDG. A.

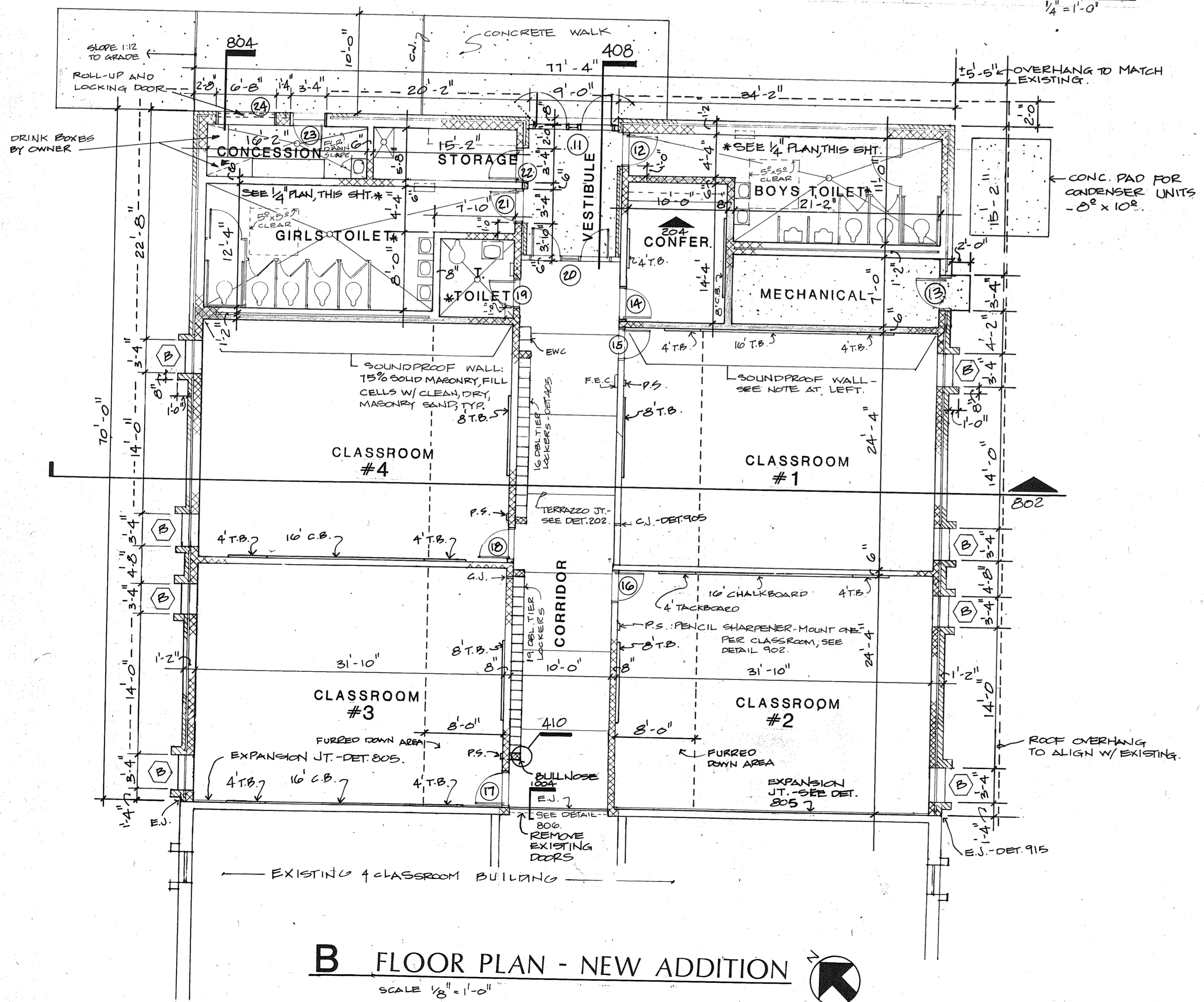
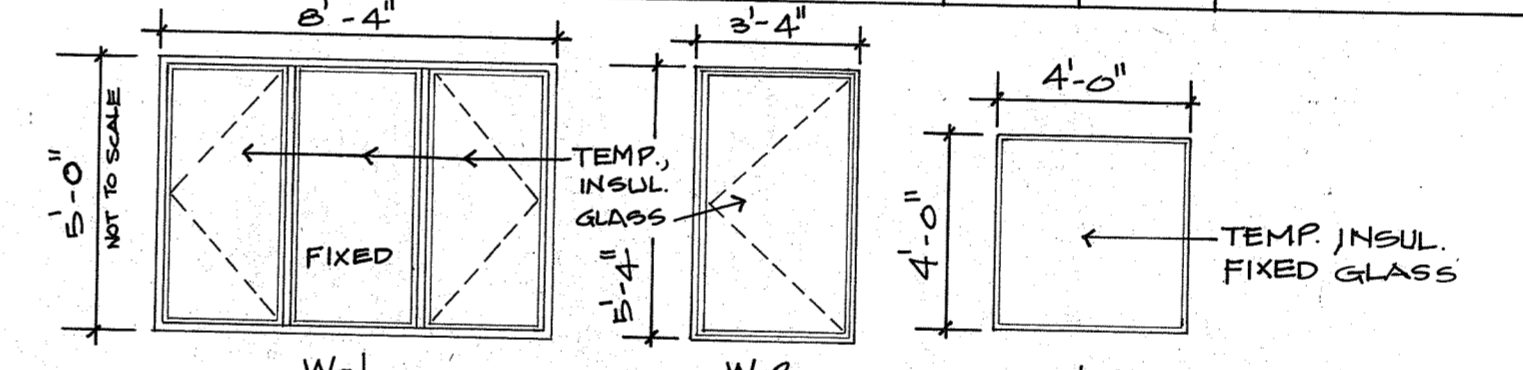
ROOM	FLOOR	BASE	WALLS	CEILING	REMARKS
ART	V.C.T.	WOOD-PAINTED	CONC. BLK.-PAINTED	GYP. BD.	
CHORUS	V.C.T.	WOOD-PAINTED	CONC. BLK.-PAINTED	GYP. BD.	
MECH.	CONC.	-	CONC. BLK.-PAINTED	SUSP. ACQ. TILE	
OFFICE	V.C.T.	WOOD-PAINTED	CONC. BLK.-PAINTED	SUSP. ACQ. TILE	
STORAGE	V.C.T.	WOOD-PAINTED	CONC. BLK.-PAINTED	SUSP. ACQ. TILE	
DRESSING	V.C.T.	WOOD-PAINTED	CONC. BLK.-PAINTED	SUSP. ACQ. TILE	

FINISH SCHEDULE - BLDG. B.

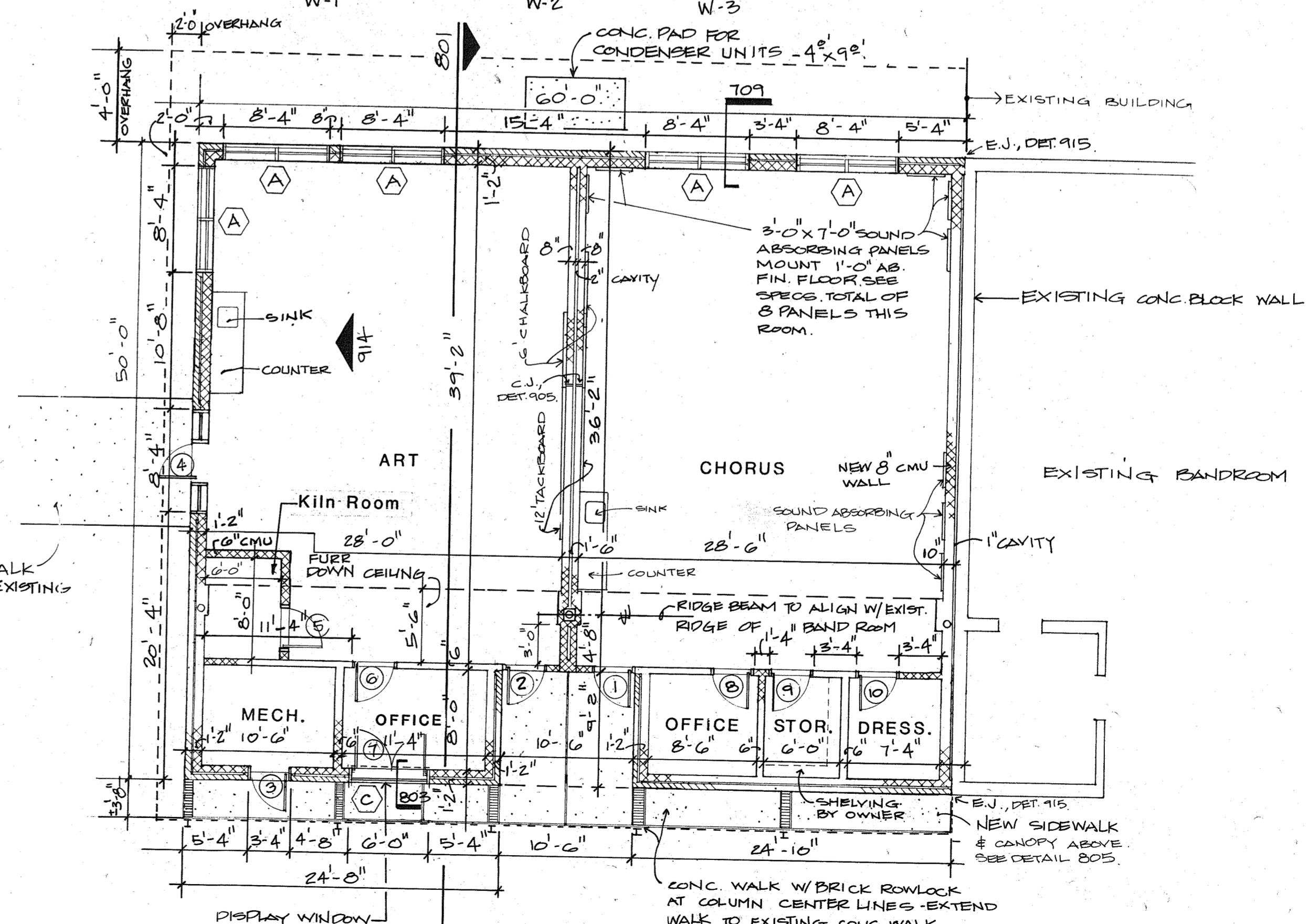
ROOM	FLOOR	BASE	WALLS	CEILING	REMARKS
CLASSROOM #1, 2, 3, 4	V.C.T.	WOOD-PAINTED	CONC. BLK.-PNTD.	SUSP. ACQ. TILE	
GIRLS TOILET	CERAMIC TILE	C.T.	C.T.	M.R. GYP. BD.	
BOYS TOILET	C.T.	C.T.	C.T.	M.R. GYP. BD.	
TEACHERS TOILET	C.T.	C.T.	C.T.	M.R. GYP. BD.	
CONCESSION	CONC.	WOOD-PNTD.	CONC. BLK.-PNTD.	GYP. BD.	
STORAGE	V.C.T.	WOOD-PNTD.	CONC. BLK.-PNTD.	GYP. BD.	
CONFERENCE	CARPET	WOOD-PNTD.	CONC. BLK.-PNTD.	SUSP. ACQ. TILE	
MECHANICAL	CONC.	-	CONC. BLK.-PNTD.	SUSP. ACQ. TILE	
CORRIDOR	TERRAZZO	TERRAZZO	CONC. BLK.-PNTD.	-	
VESTIBULE	CONC.	-	BRICK	GYP. BD.	

WINDOW SCHEDULE

WINDOW	SIZE	ELEV.	MATERIAL	HEAD	JAMB	REMARKS
A	8'-4" x 5'-0"	W-1	ALUMINUM	DET. 109	DET. 109	SILL - SEE DET. 109
B	3'-4" x 5'-4"	W-2	ALUMINUM	DET. 1003	DET. 1003	
C	4'-0" x 4'-0"	W-3	ALUMINUM	DET. 203	DET. 203	



B FLOOR PLAN - NEW ADDITION
SCALE 1/8" = 1'-0"

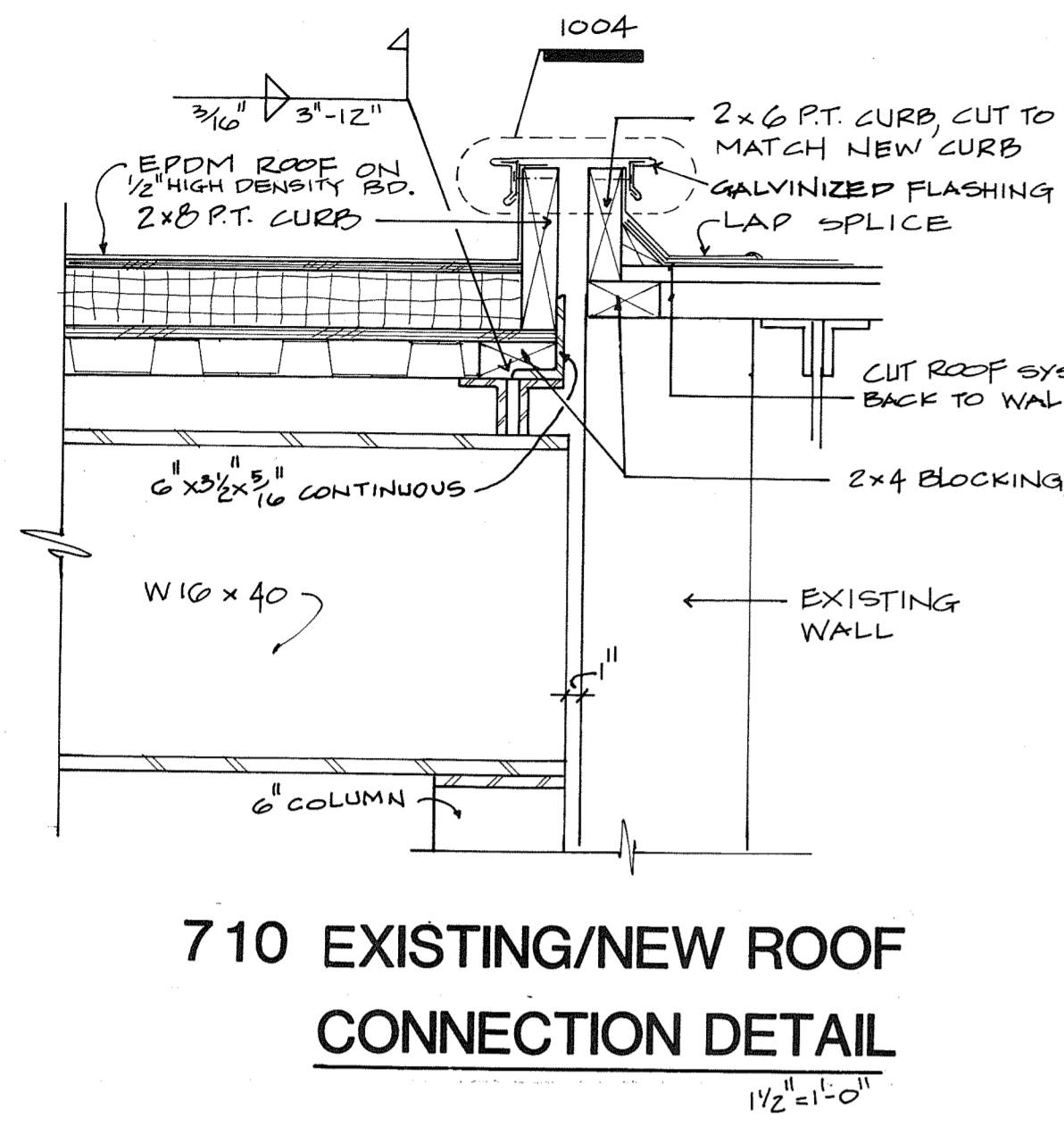


A FLOOR PLAN - NEW ADDITION
SCALE 1/8" = 1'-0"

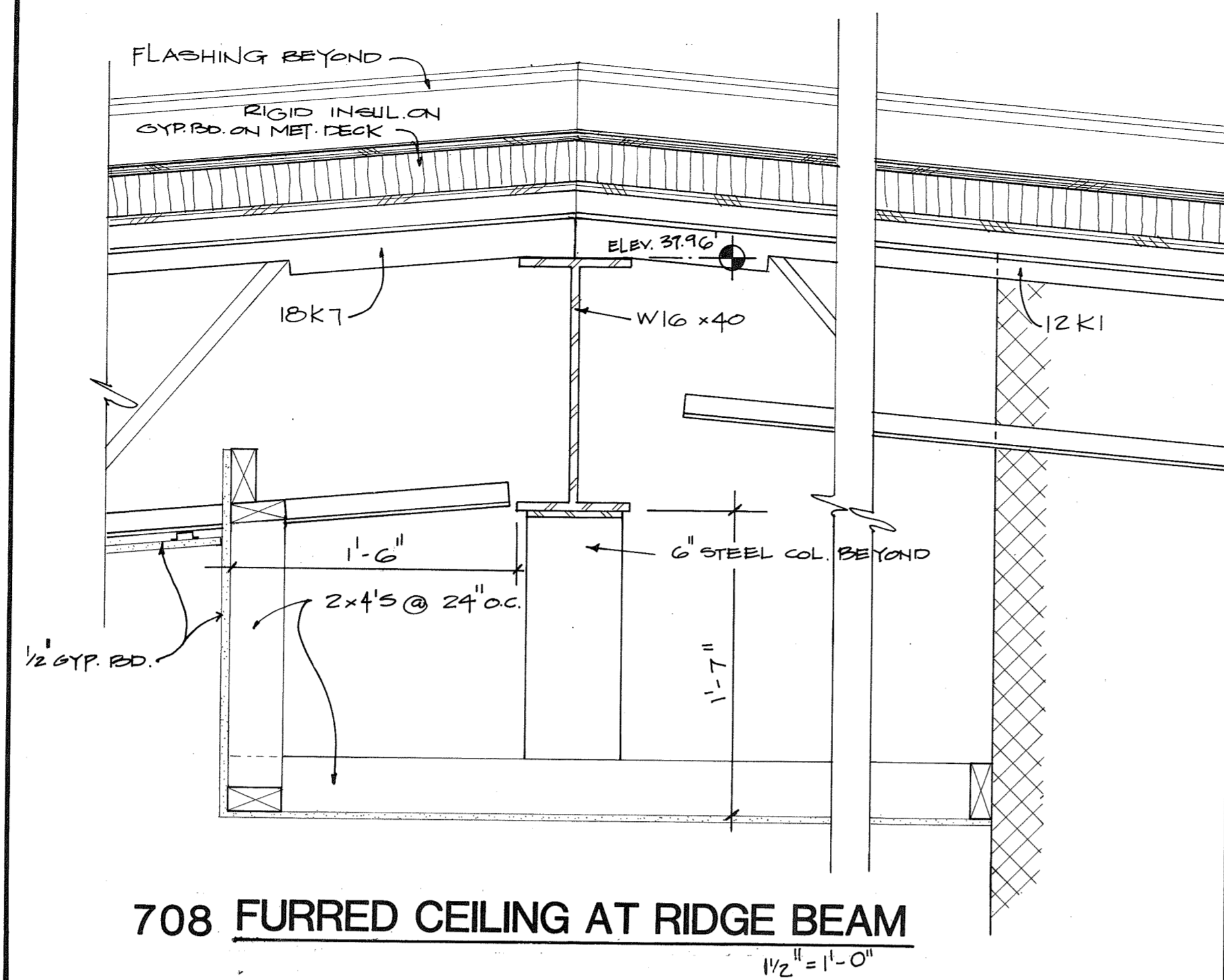
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CLASSROOM BUILDING ADDITIONS
Jacksonville, North Carolina

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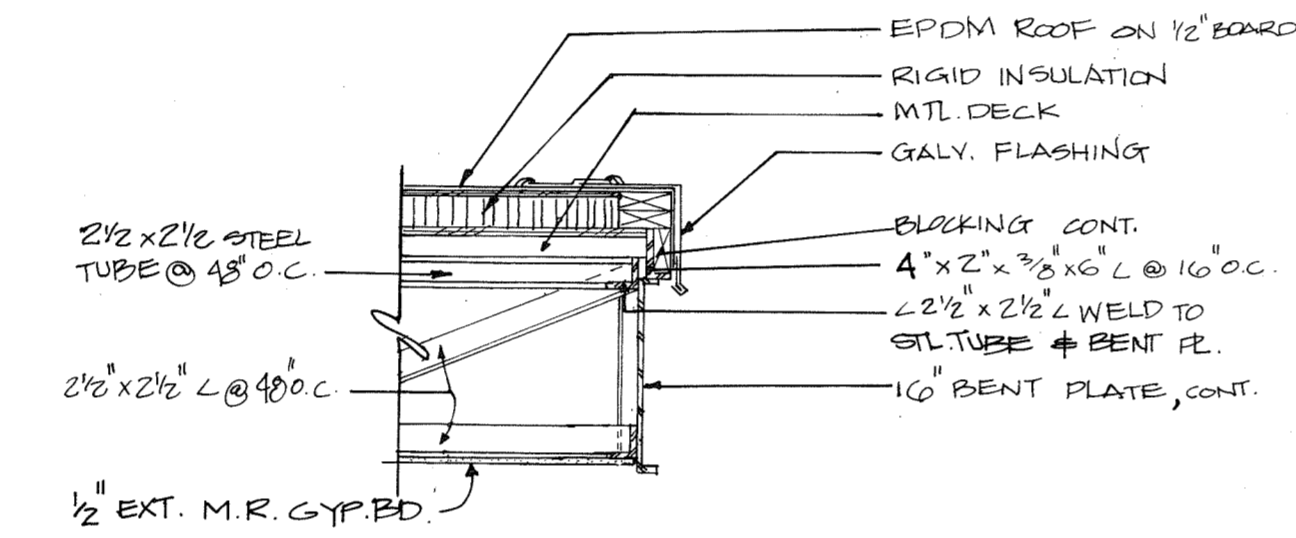
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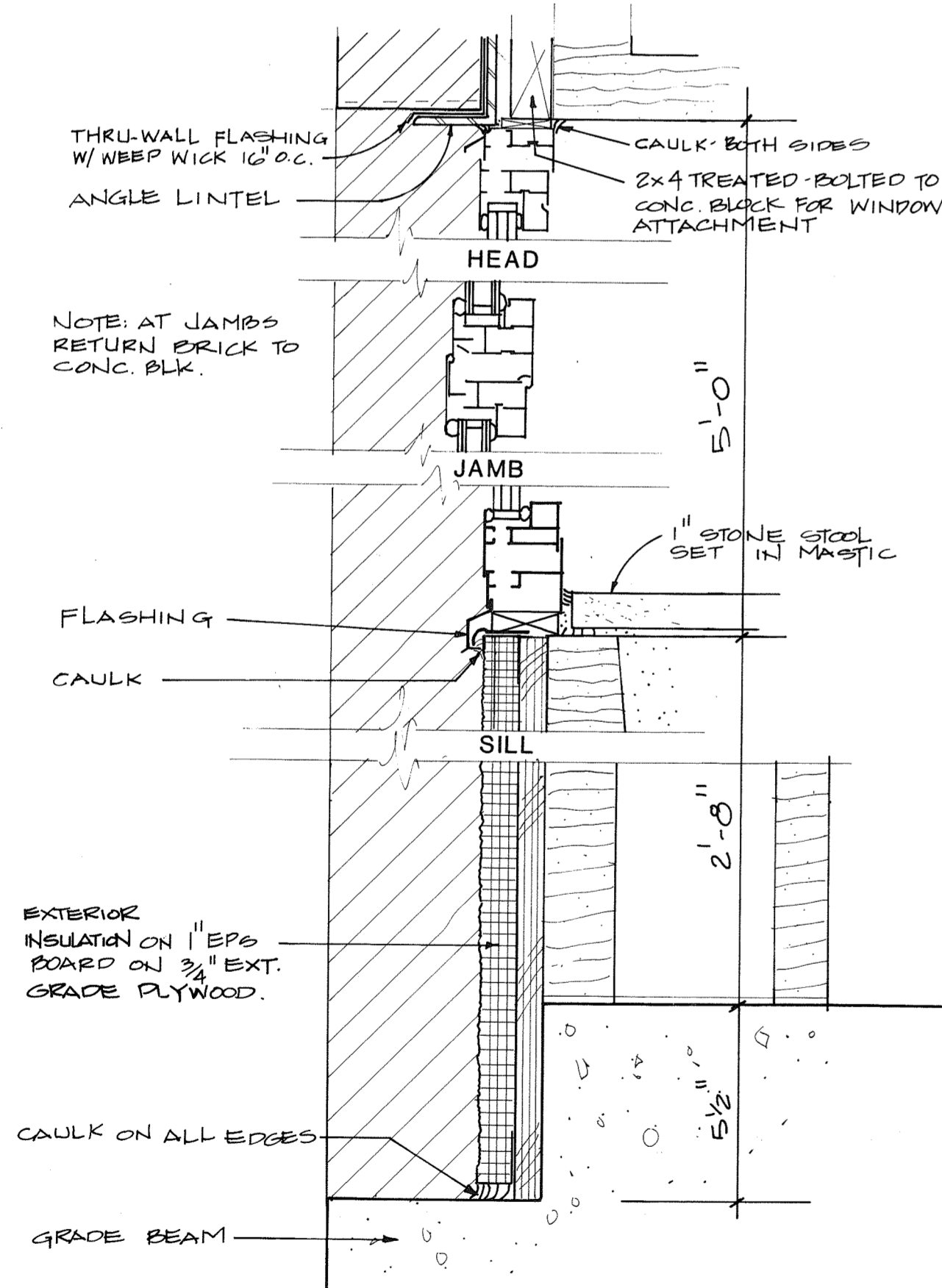
710 EXISTING/NEW ROOF CONNECTION DETAIL
1/2" = 1'-0"



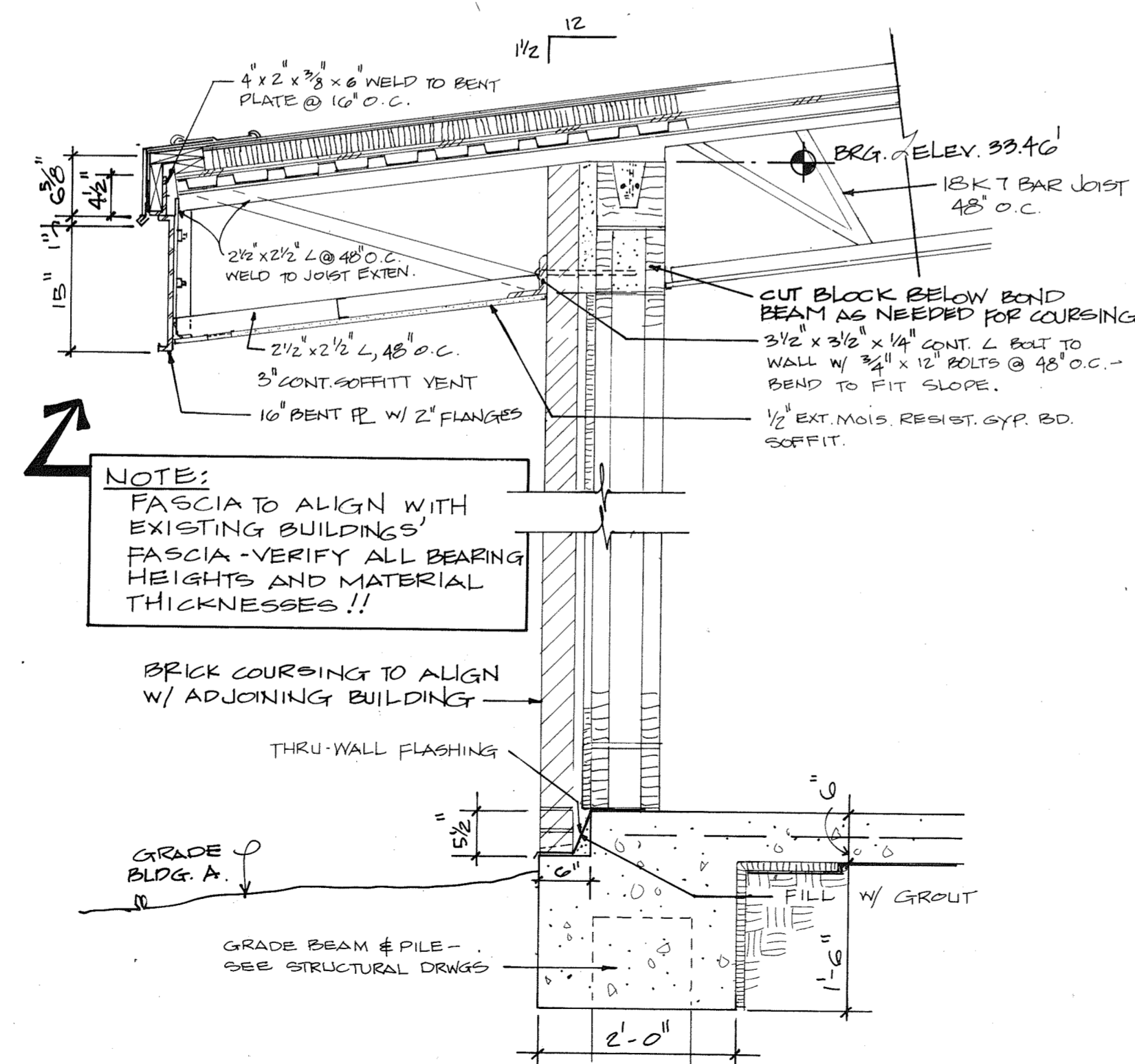
708 FURRED CEILING AT RIDGE BEAM
1/2" = 1'-0"



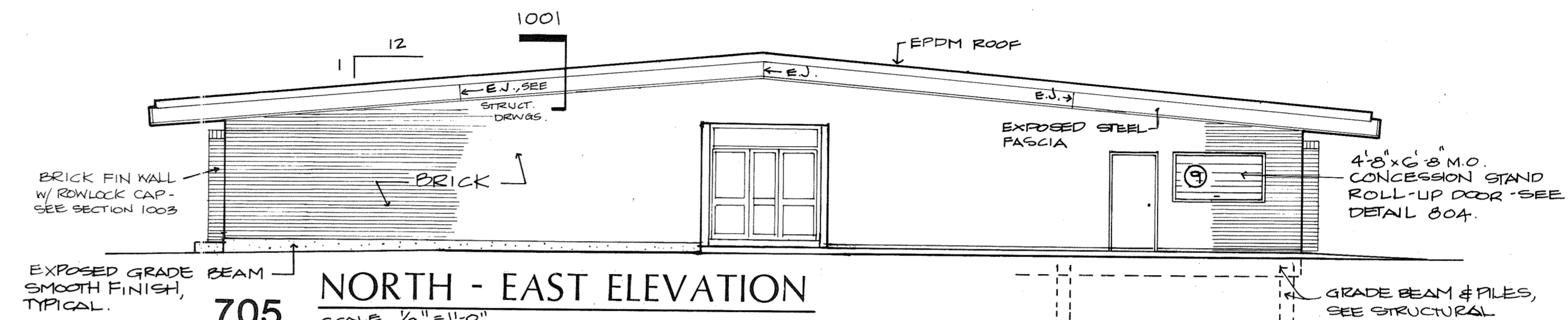
707 DETAIL at GABLE END
3/4" = 1'-0"



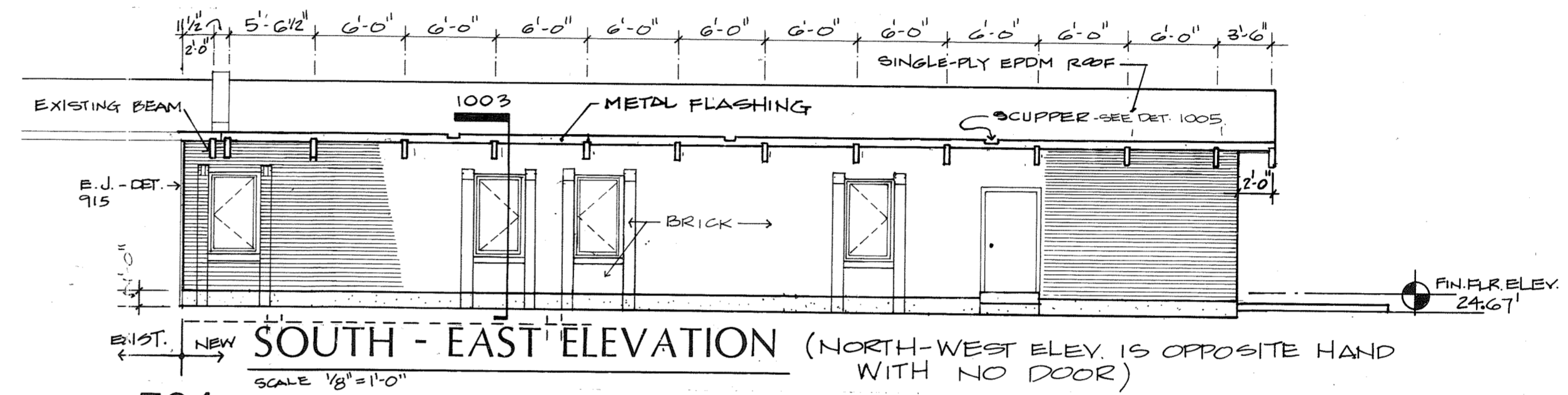
709 WINDOW SECTION-BUILDING A
3/8" = 1'-0"



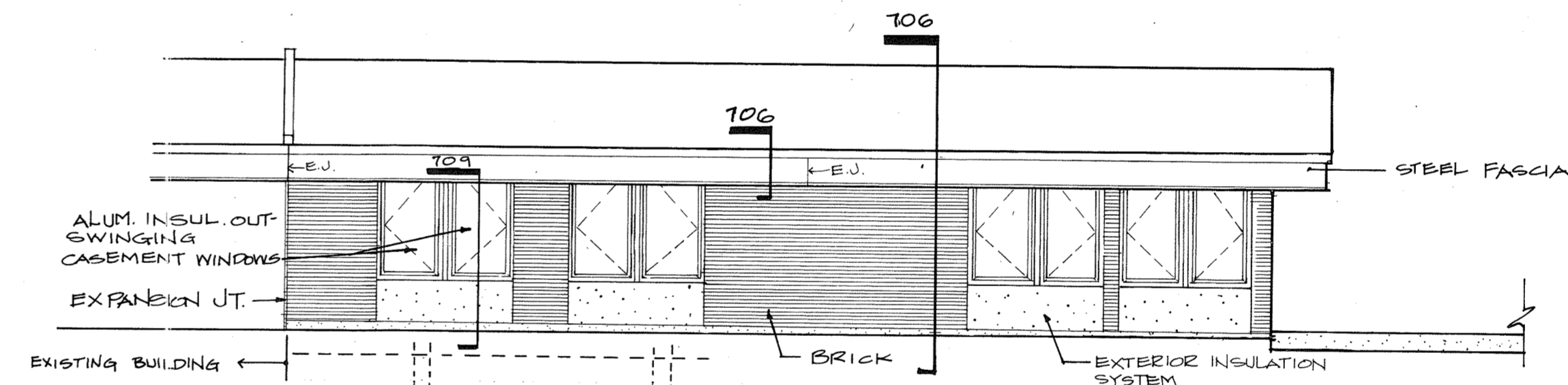
706 WALL SECTION
3/4" = 1'-0"



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



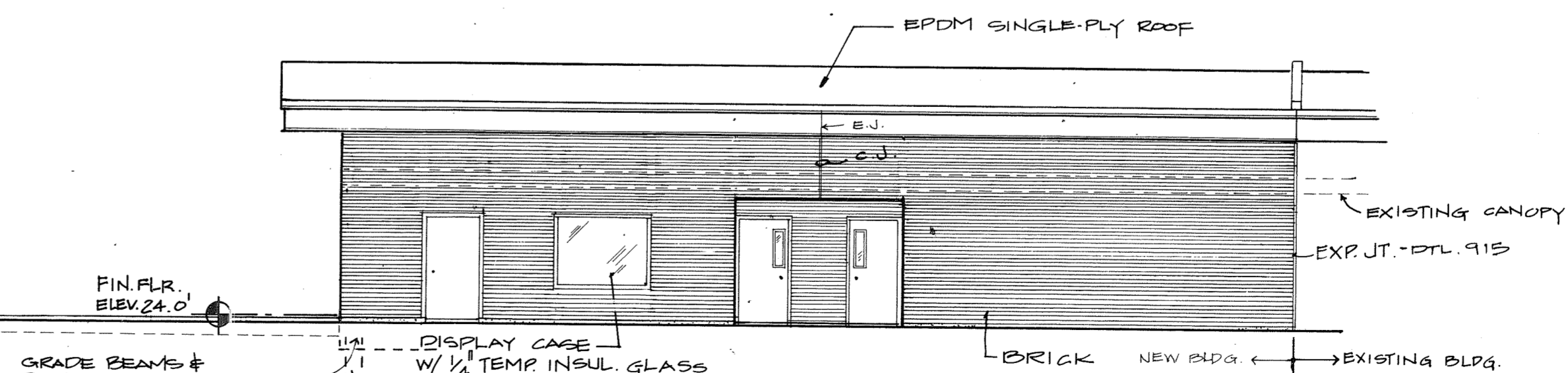
704 SOUTH - EAST ELEVATION (NORTH - WEST ELEV. IS OPPOSITE HAND WITH NO DOOR)
SCALE 1/8" = 1'-0"



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

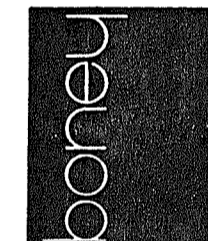


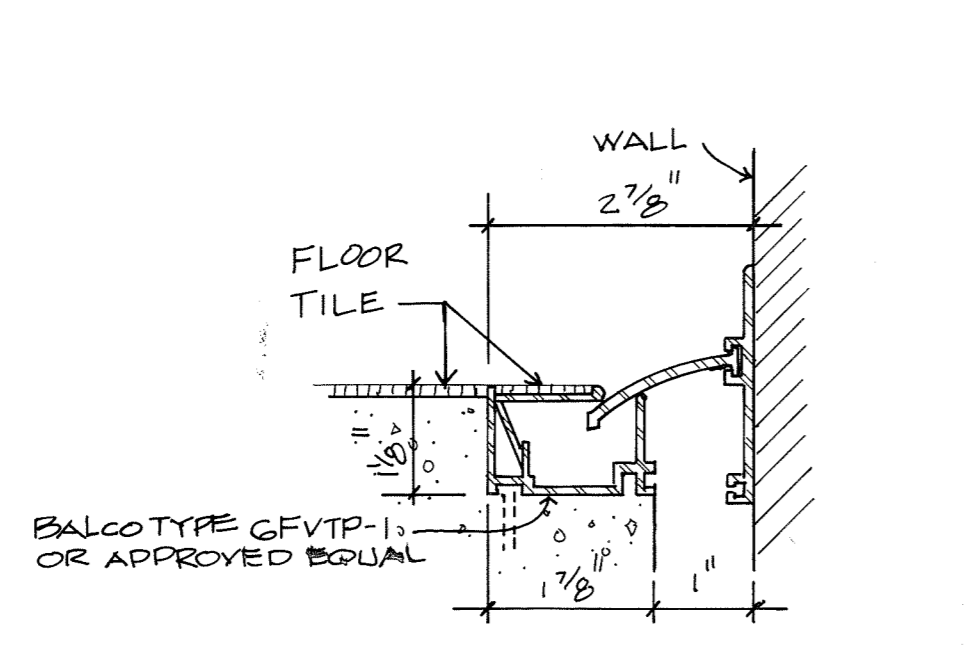
702 NORTH - WEST ELEVATION
SCALE 1/8" = 1'-0"



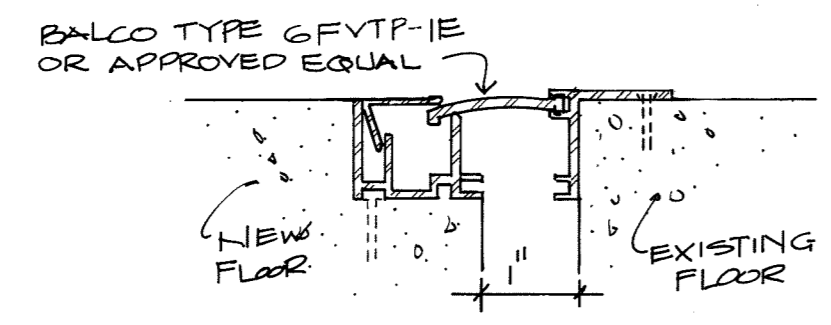
701 SOUTH - WEST ELEVATION
SCALE 1/8" = 1'-0"

BUILDING A

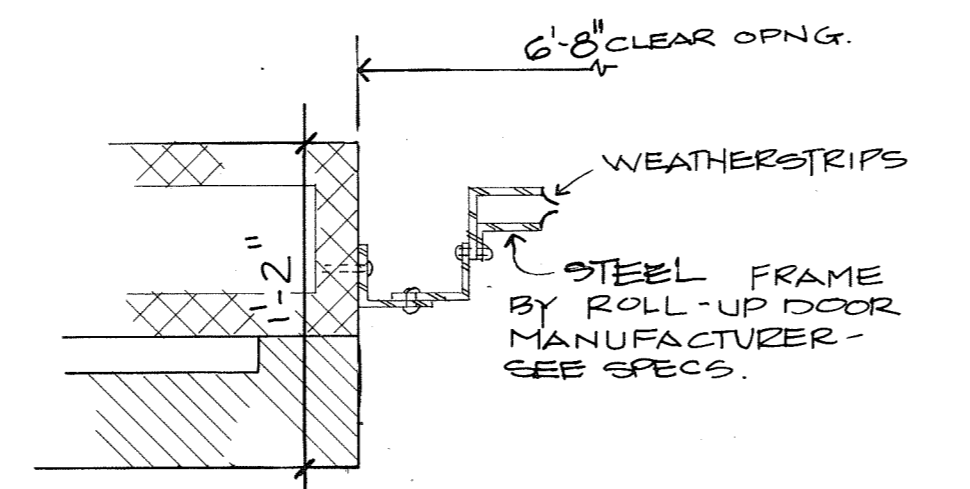




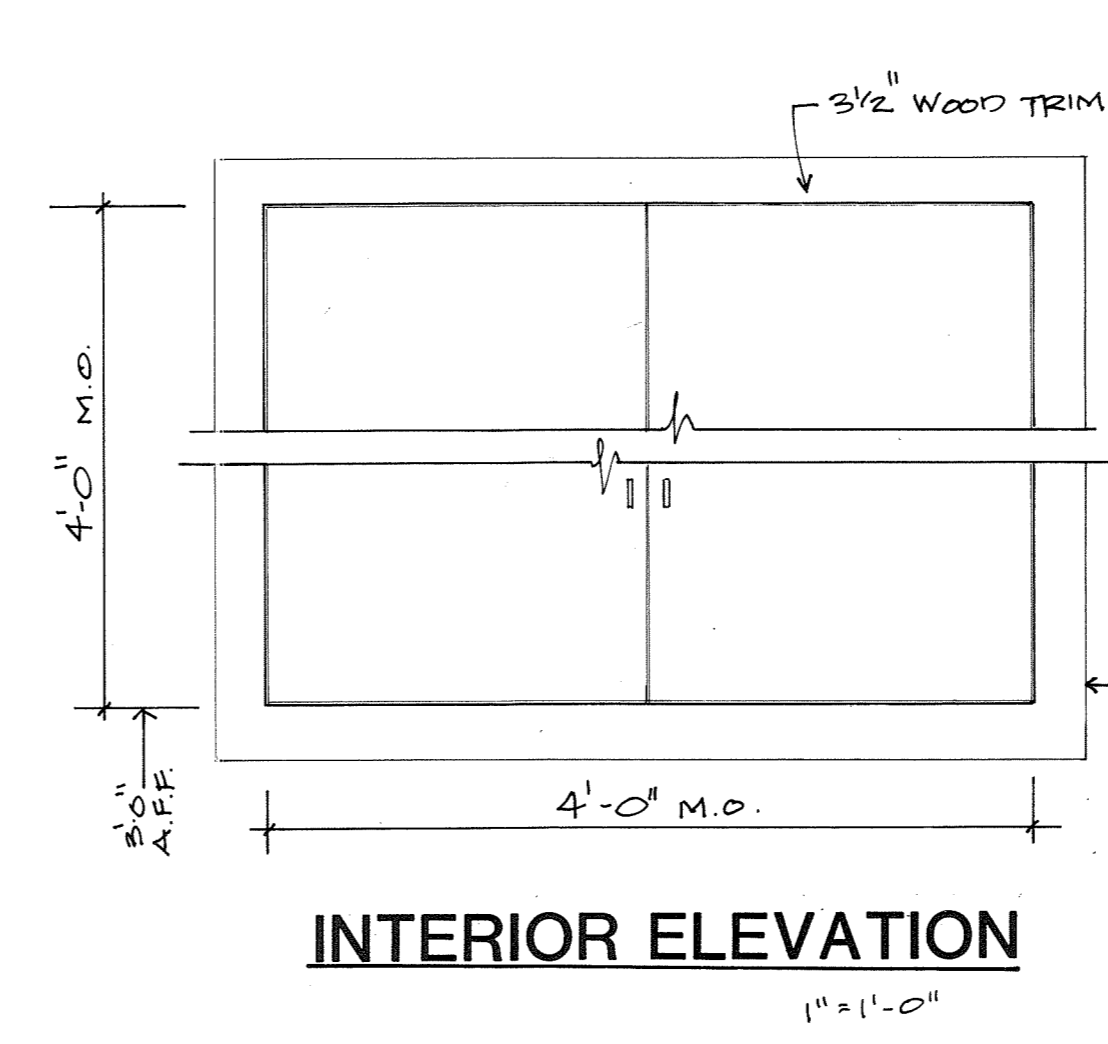
805 WALL TO FLOOR EXPANSION JOINT
1/8" = 1'-0"



806 FLOOR TO FLOOR EXPANSION JOINT
1/8" = 1'-0"

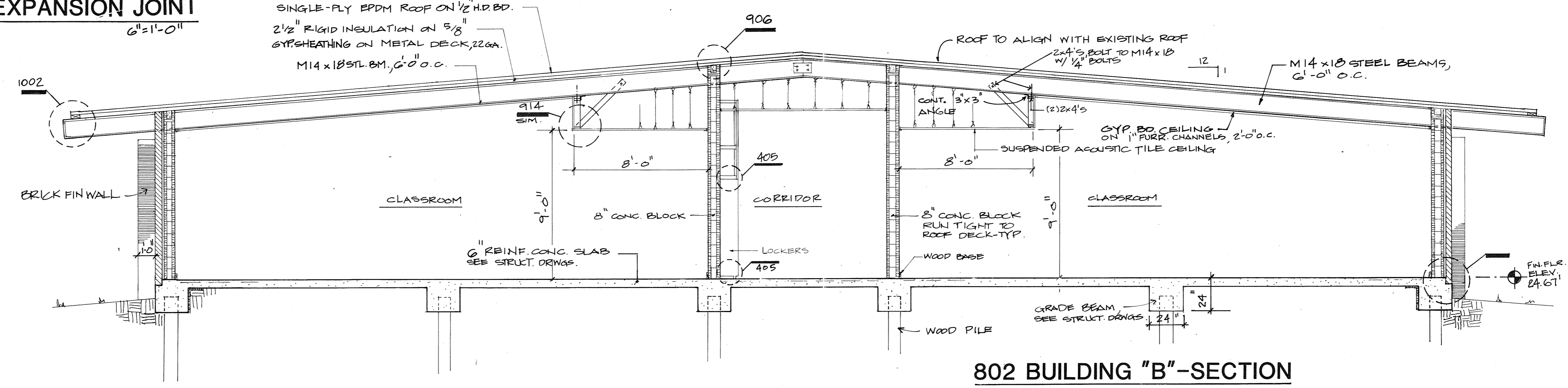


804 ROLL-UP DOOR DETAILS
1/8" = 1'-0"

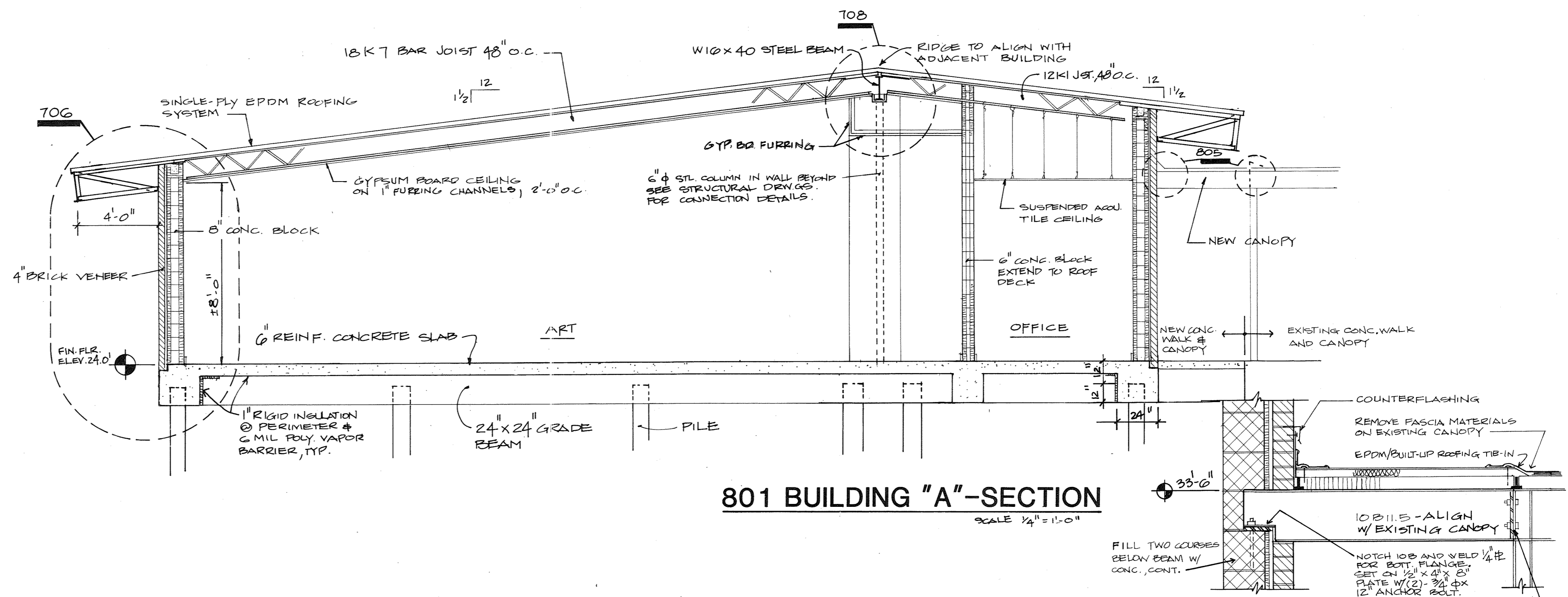


INTERIOR ELEVATION
1/8" = 1'-0"

803 DISPLAY WINDOW-BLDG. "A"
1/8" = 1'-0"



802 BUILDING "B"-SECTION
SCALE 1/4" = 1'-0"

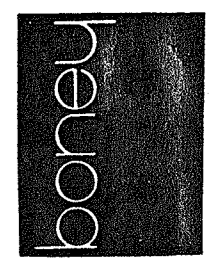


801 BUILDING "A"-SECTION
SCALE 1/4" = 1'-0"

805 CANOPY CONNECTION-BLDG. "A"
3/4" = 1'-0"

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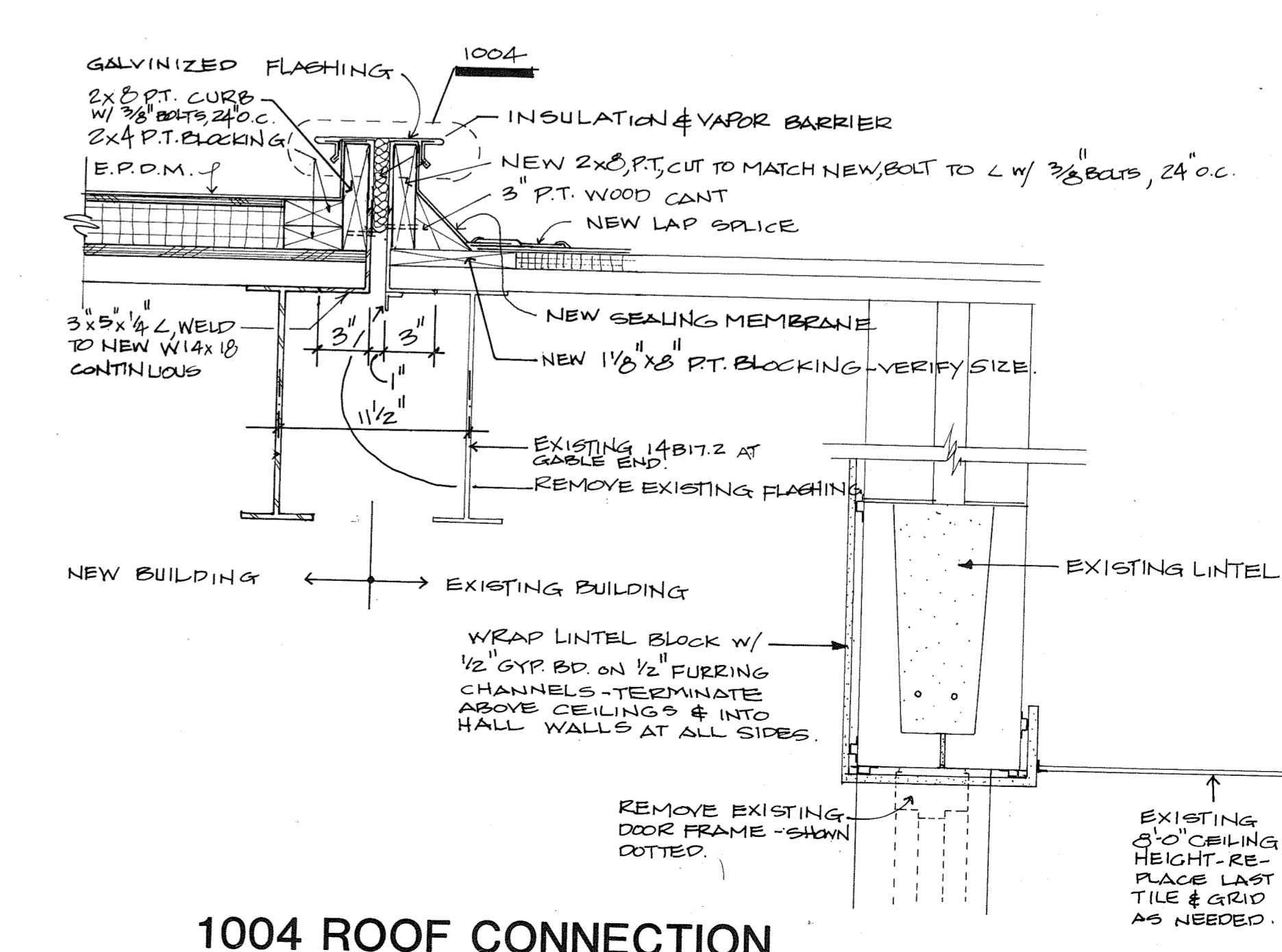
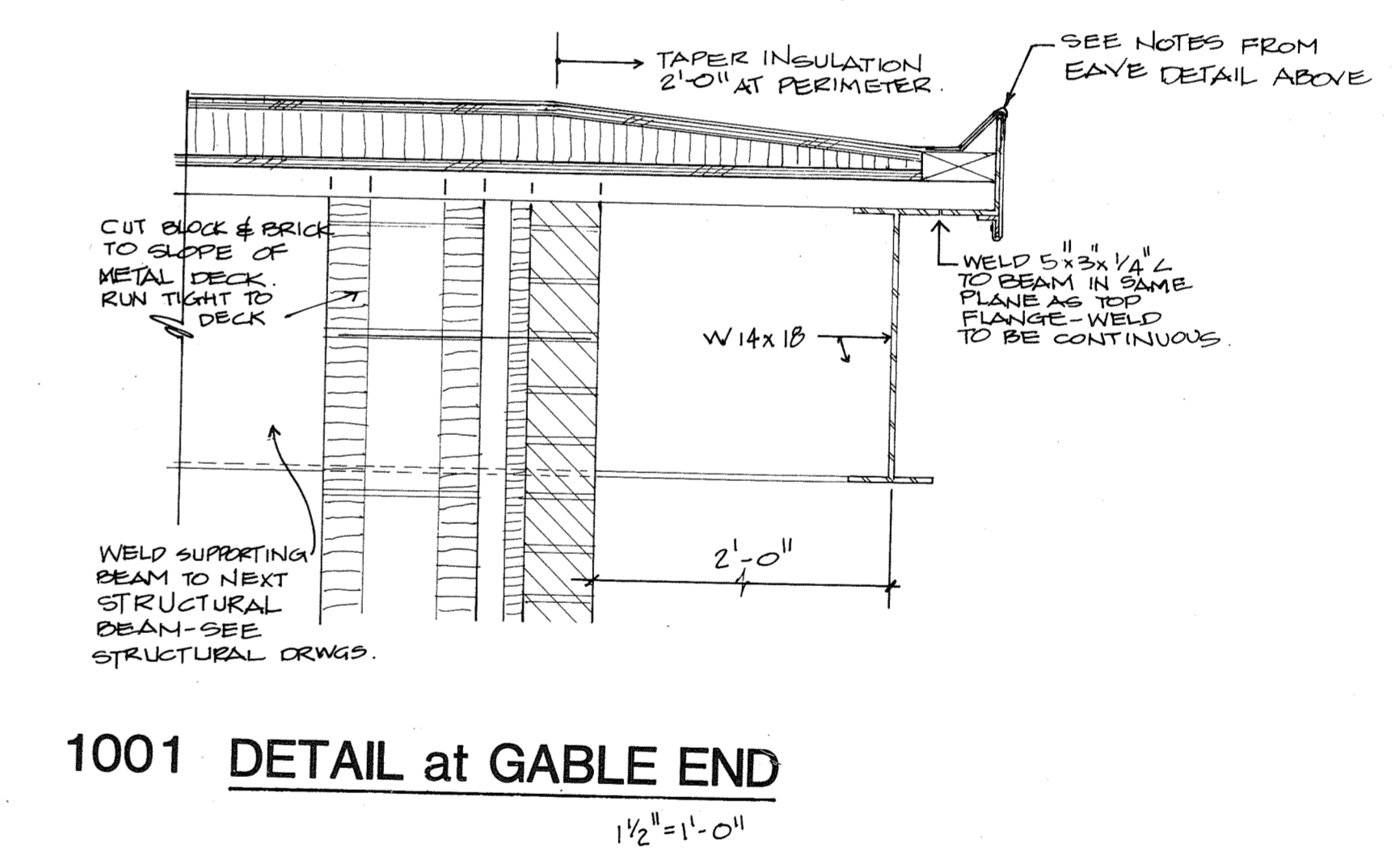
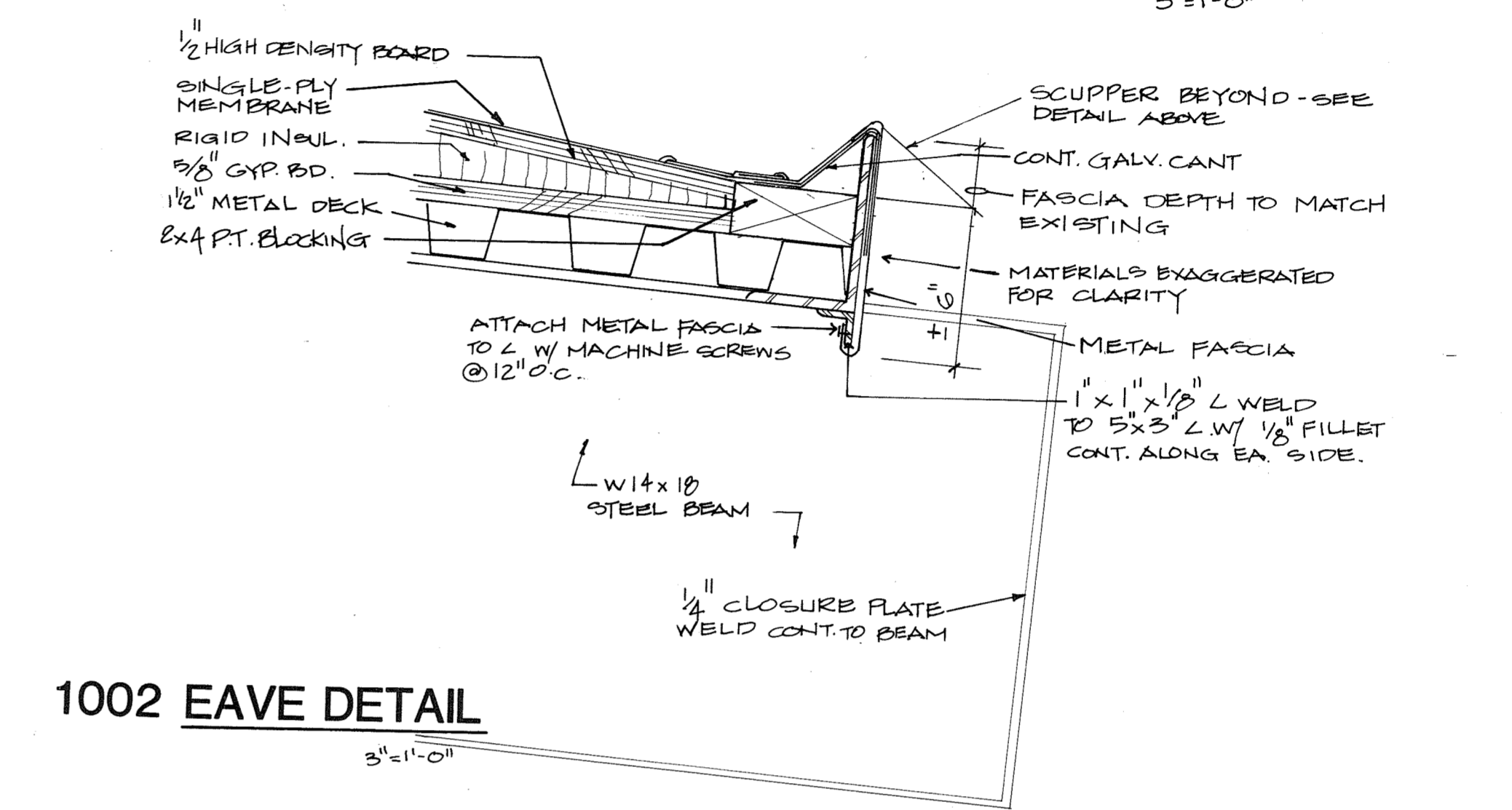
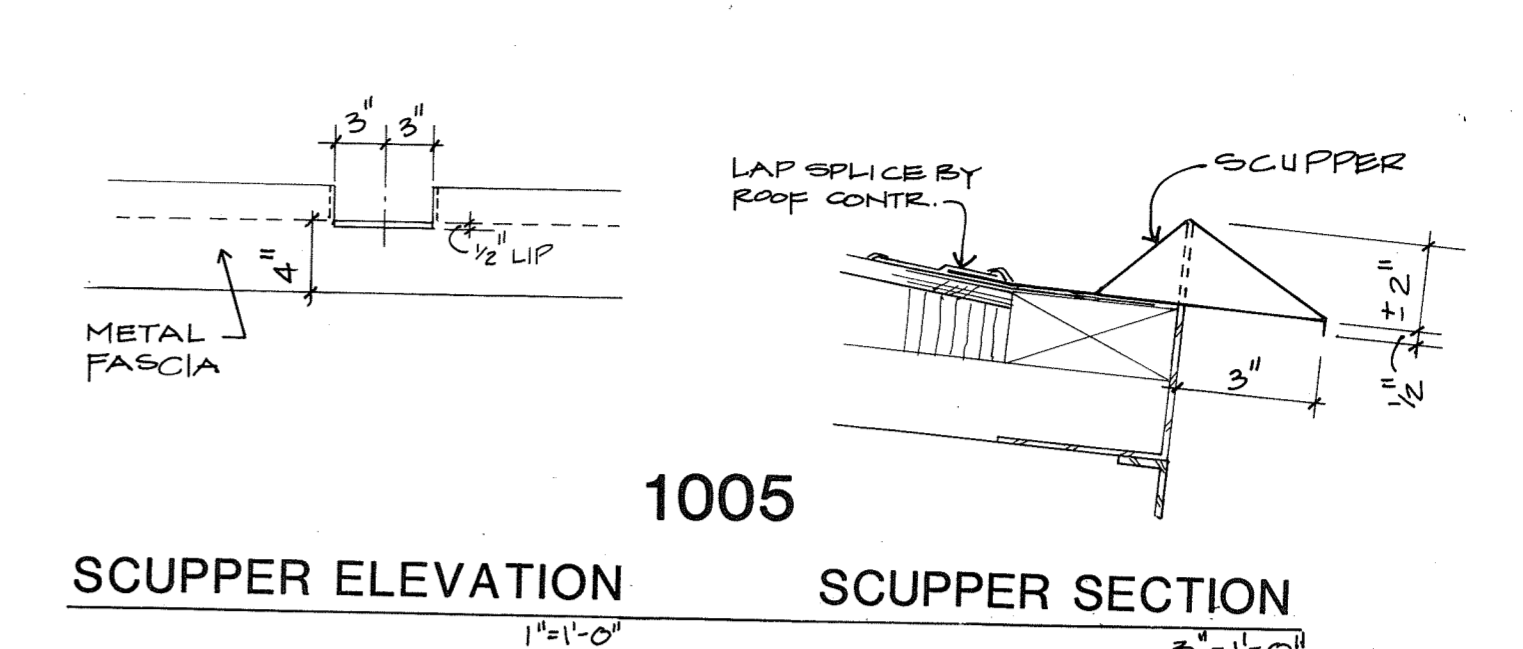
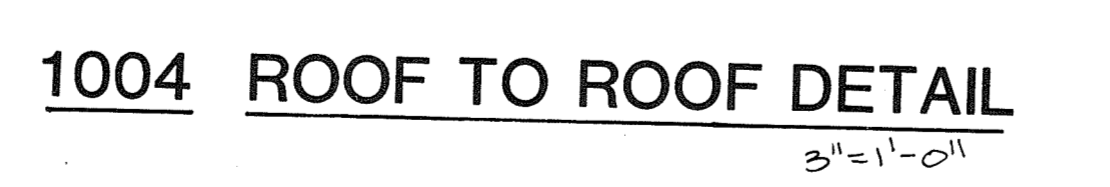
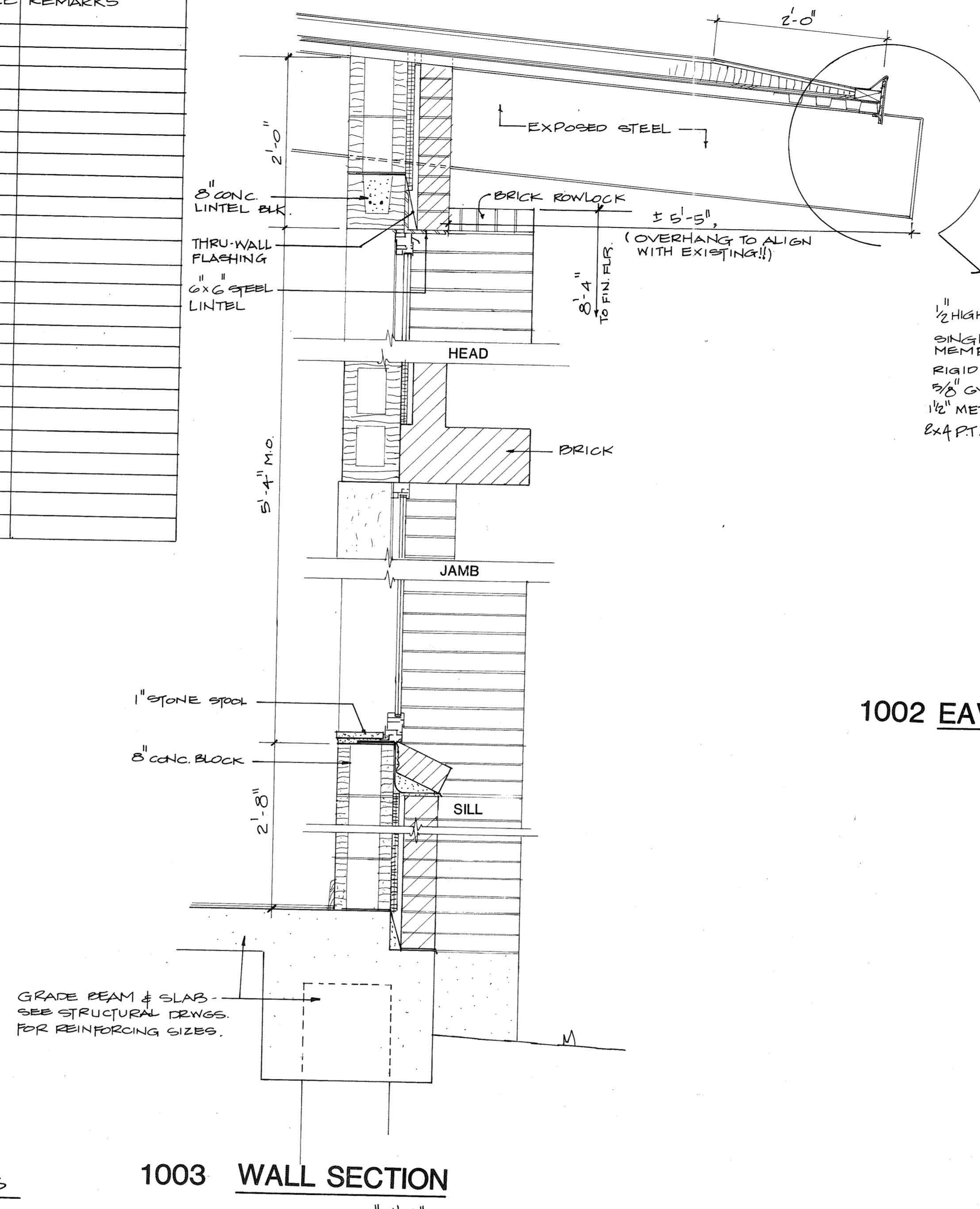
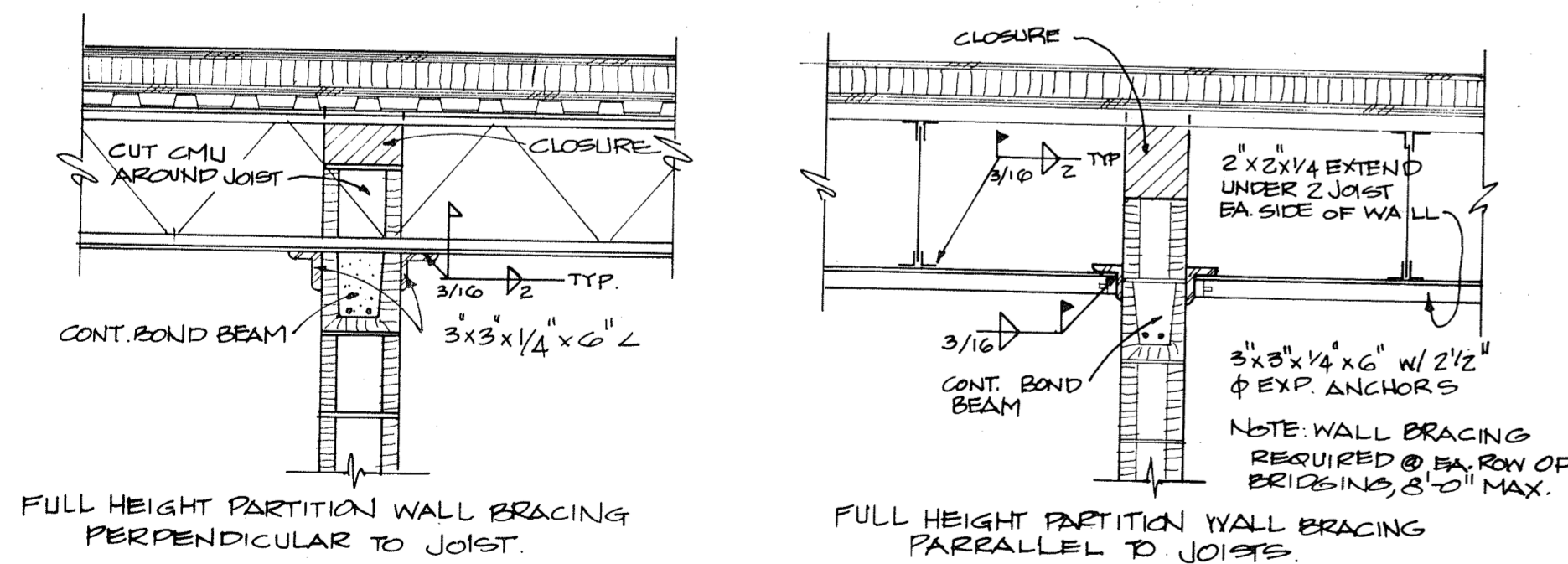
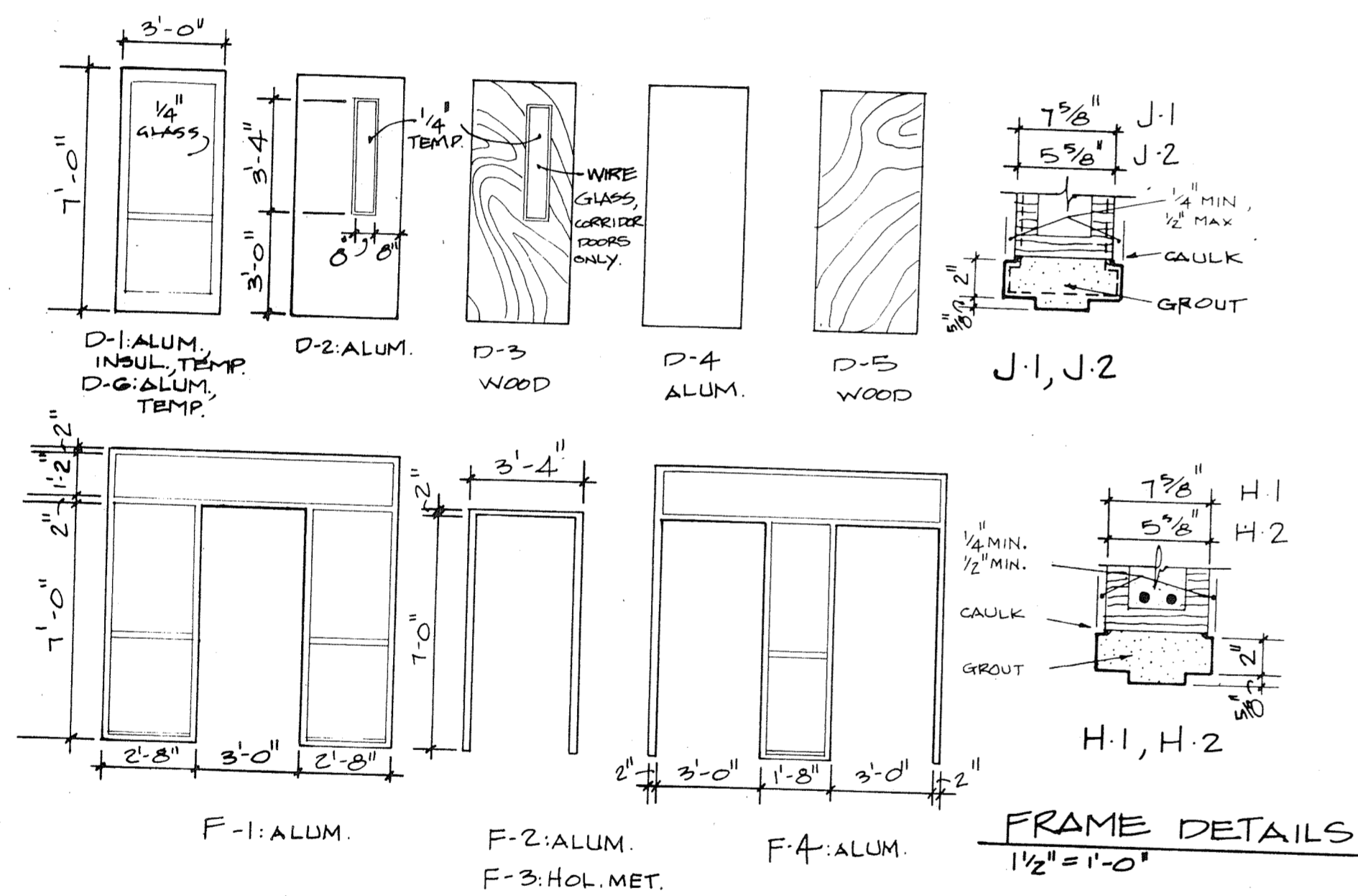
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A-8
Northwoods

NORTHWOODS

DOOR SCHEDULE-BUILDING A & B

N ^o	SIZE	MATERIAL	ELEVATION	FRAME			HEAD	JAMB	HARDWARE	REMARKS
				MATERIAL	ELEV.	FINISH				
1	3'-0" x 7'-0"	ALUMINUM	D-2	ALUM.	F-2	-	SIM TO DET. 408	SIM TO DET. 408	9	
2	3'-0" x 7'-0"	"	D-2	"	F-2	-	"	"	9	
3	3'-0" x 7'-0"	"	D-4	"	F-2	-	"	"	6	
4	3'-0" x 7'-0"	"	D-1	"	F-1	-	"	"	10	
5	3'-0" x 7'-0"	WOOD	D-3	HOL. MET.	F-3	STAINED	H-2	J-2	4	
6	3'-0" x 7'-0"	"	"	"	"	"	"	"	4	
7	PR 2'-0" x 4'-0"	"	DET. 803	WOOD	DET. 803	"	DET. 803	DET. 803	11	
8	3'-0" x 7'-0"	"	D-3	HOL. MET.	F-3	"	H-2	J-2	4	
9	3'-0" x 7'-0"	"	D-5	"	"	"	"	"	4	
10	3'-0" x 7'-0"	"	"	"	"	"	"	"	4	
11	PR 3'-0" x 7'-0"	ALUM.	D-1	ALUM.	F-4	-	SIM TO DET. 408	SIM TO DET. 408	1	
12	3'-0" x 7'-0"	WOOD	D-5	HOL. MET.	F-3	STAINED	"	"	2	
13	3'-0" x 7'-0"	ALUM.	D-4	ALUM.	F-2	-	"	"	6	
14	3'-0" x 7'-0"	WOOD	D-3	HOL. MET.	F-3	STAINED	H-1	J-1	4	
15	3'-0" x 7'-0"	"	"	"	"	"	"	"	3	
16	3'-0" x 7'-0"	"	"	"	"	"	"	"	3	
17	3'-0" x 7'-0"	"	"	"	"	"	"	"	3	
18	3'-0" x 7'-0"	"	"	"	"	"	"	"	3	
19	3'-0" x 7'-0"	"	D-5	"	"	"	"	"	3	
20	PR 3'-0" x 7'-0"	ALUM.	D-1	ALUM.	F-4	-	SIM TO DET. 408	SIM TO DET. 408	1	
21	3'-0" x 7'-0"	WOOD	D-5	HOL. MET.	F-3	STAINED	H-1	J-1	2	
22	3'-0" x 7'-0"	"	"	"	"	"	"	"	4	
23	3'-0" x 7'-0"	ALUM.	D-4	ALUM.	F-2	-	SIM TO DET. 408	SIM TO DET. 408	6	
24	6'-0" x 4'-8"	STEEL	ELEV. 705	STEEL	85%	-	DET. 804	DET. 804	12	



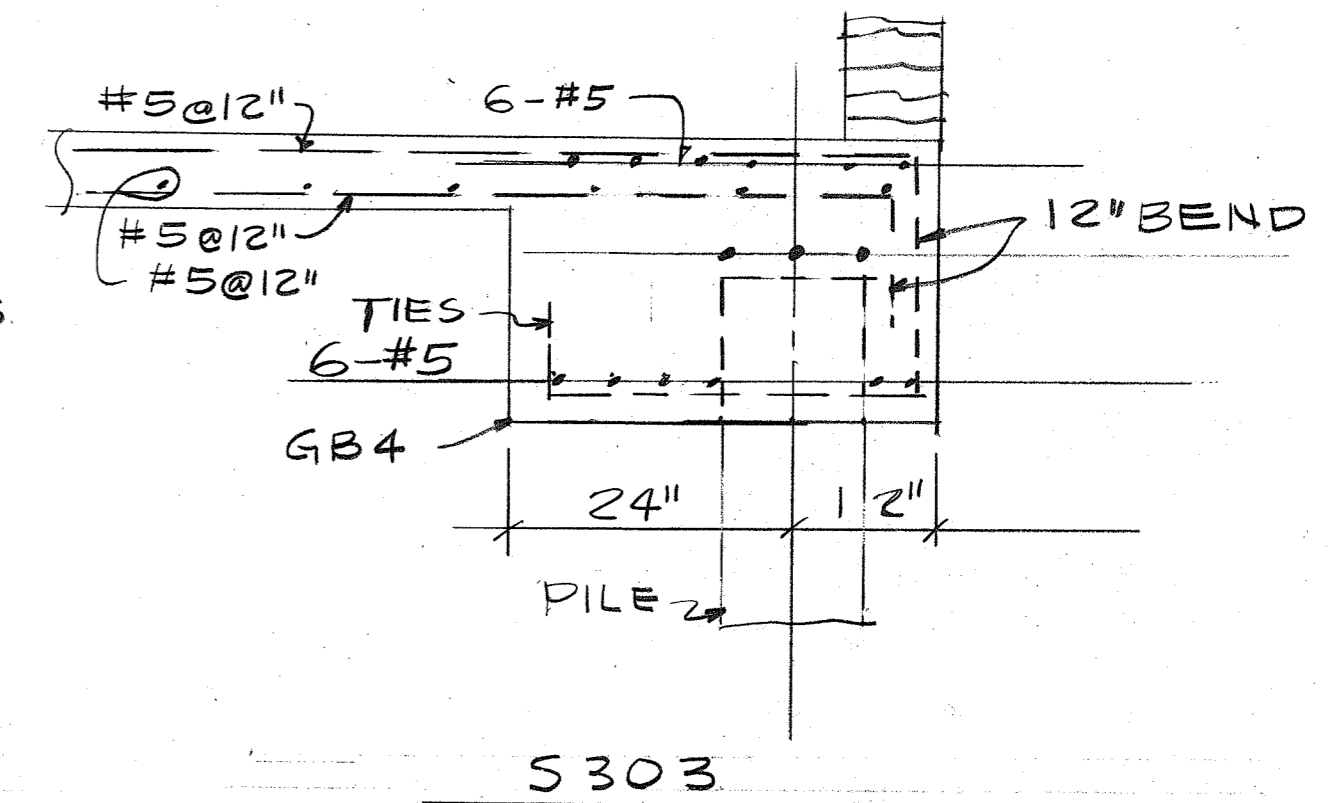
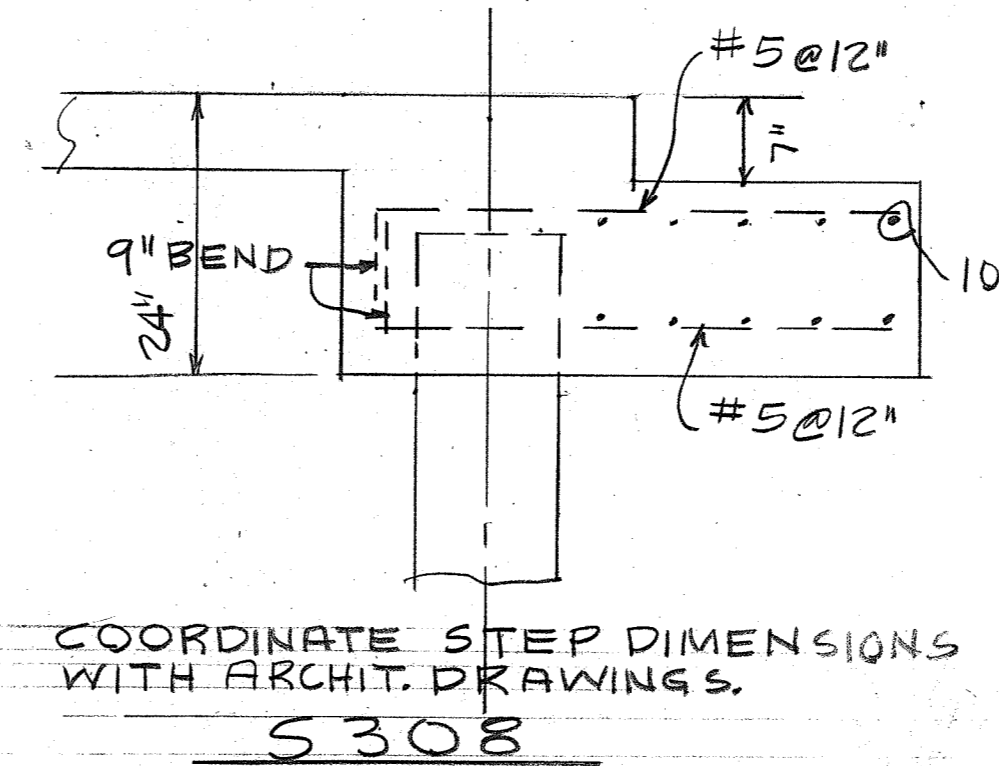
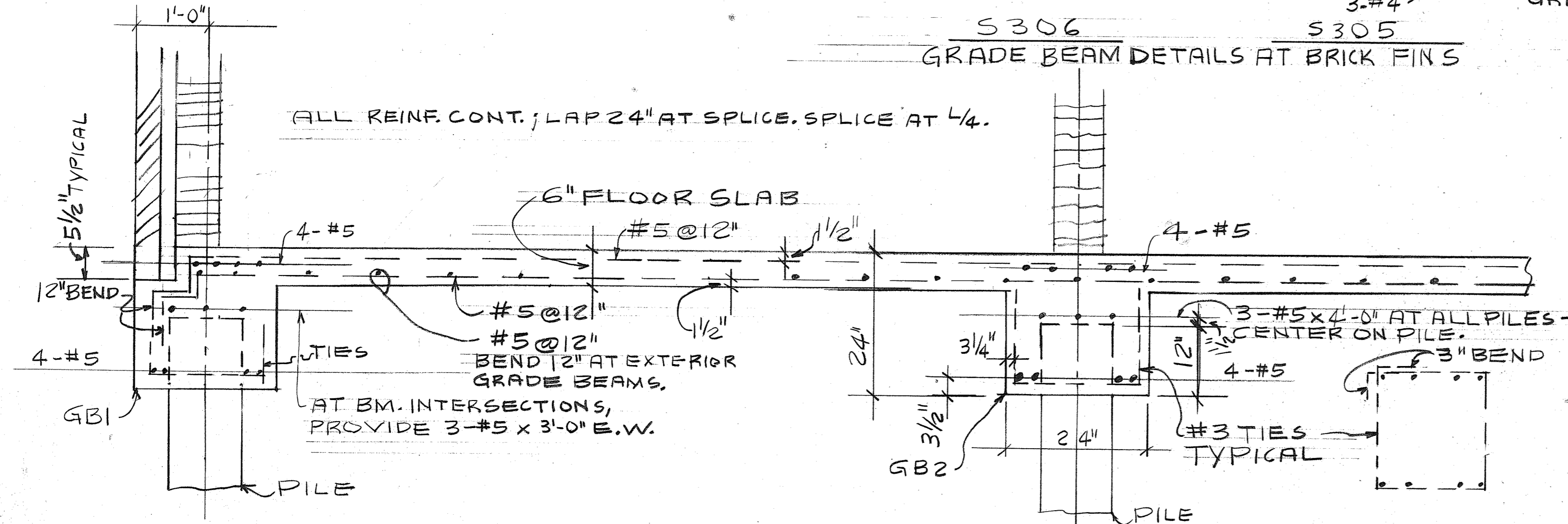
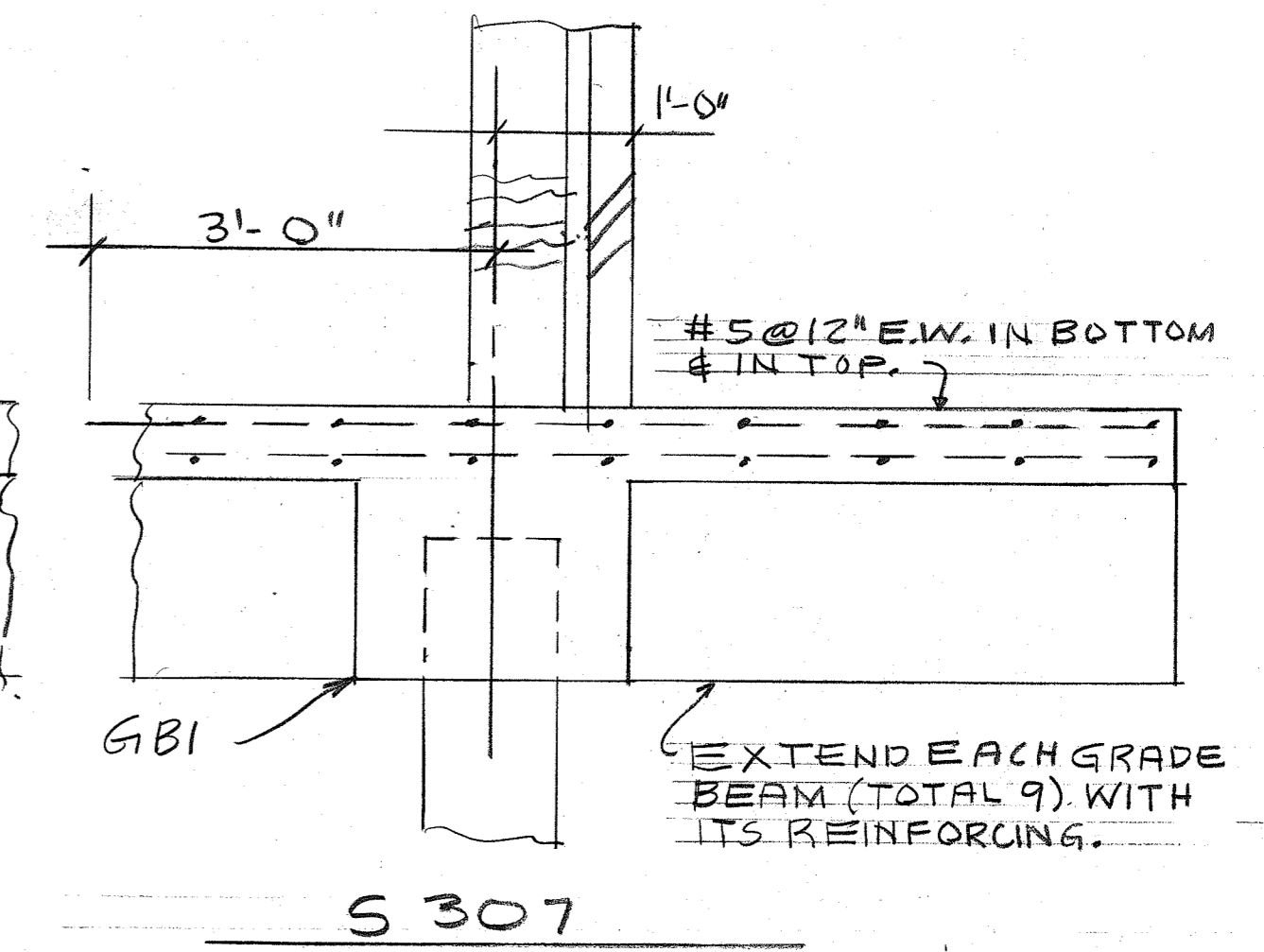
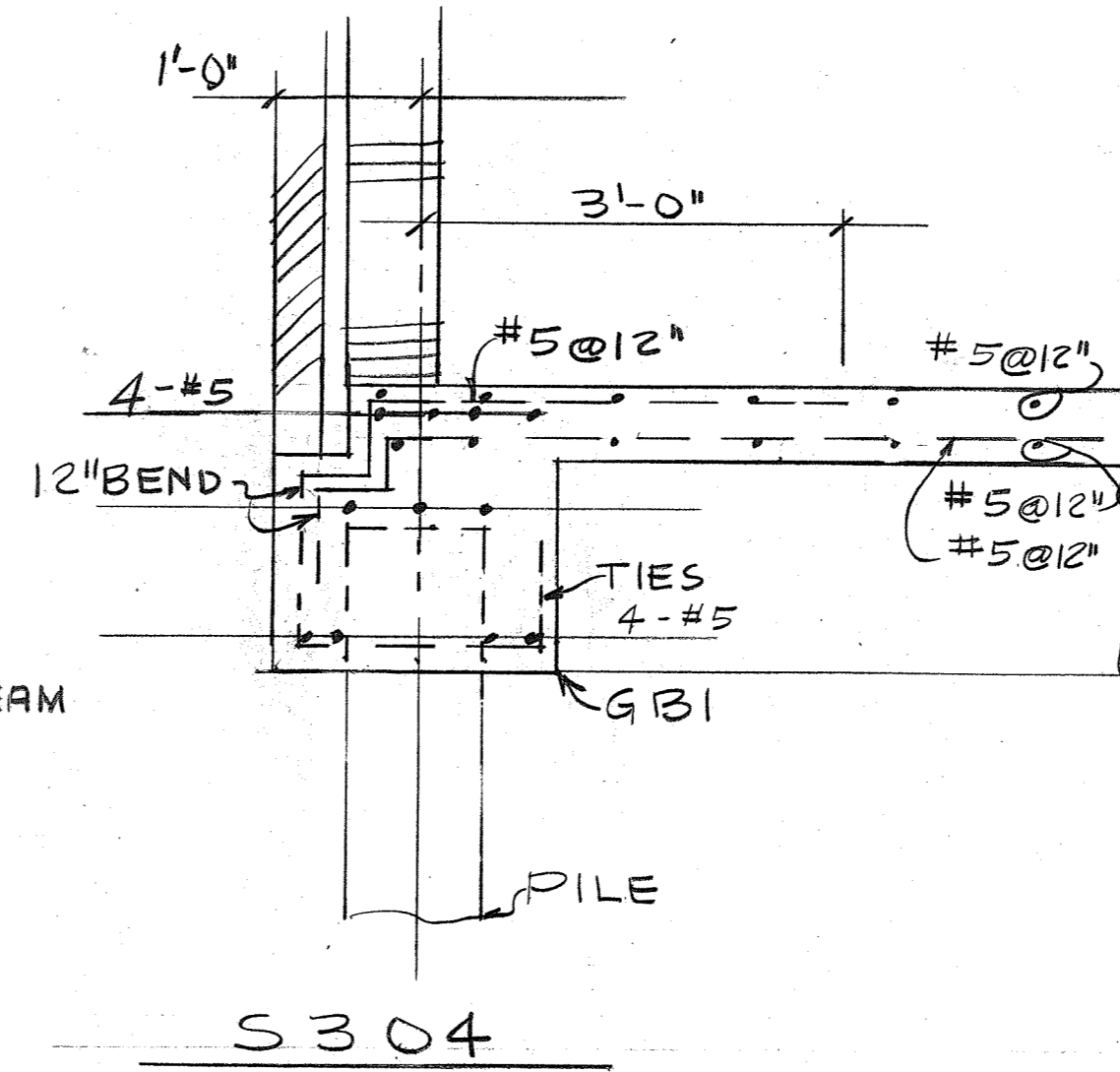
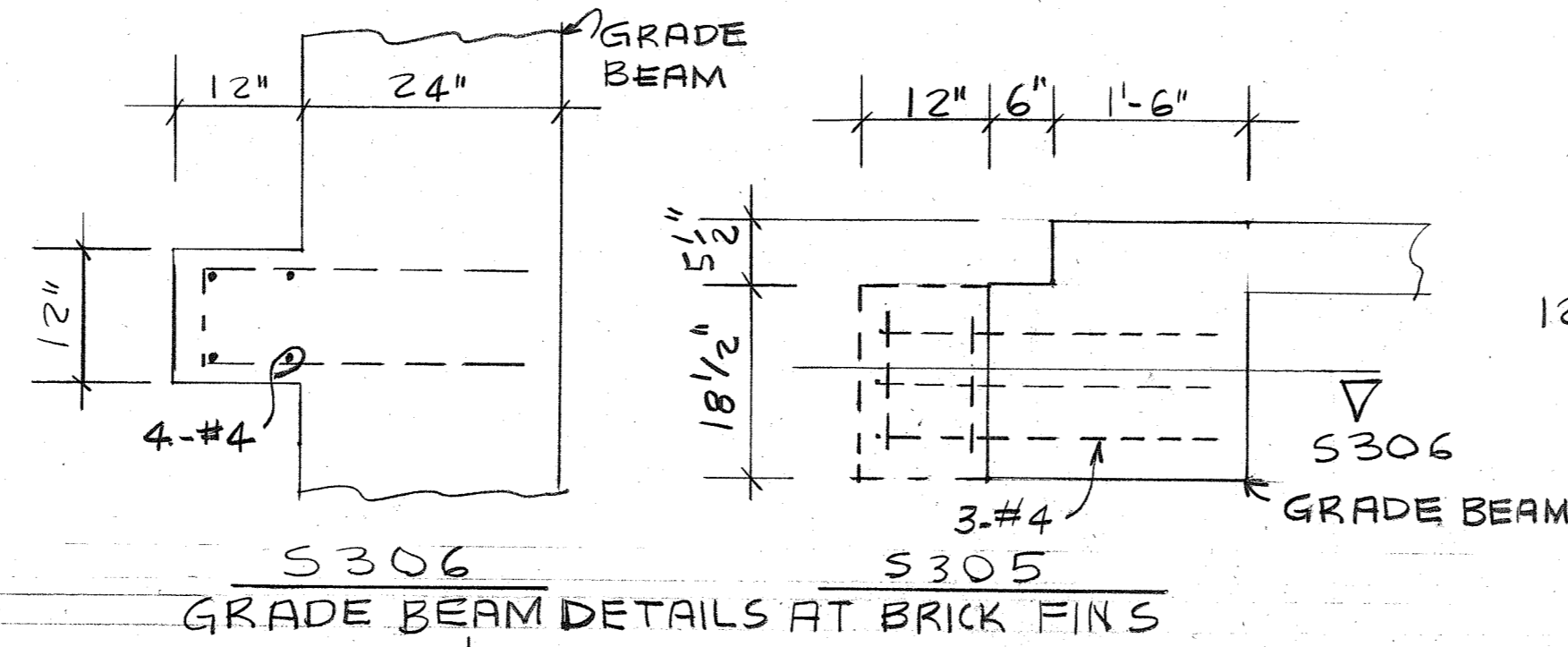
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CLASSROOM BUILDING ADDITIONS
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GRADE BEAM SCHEDULE

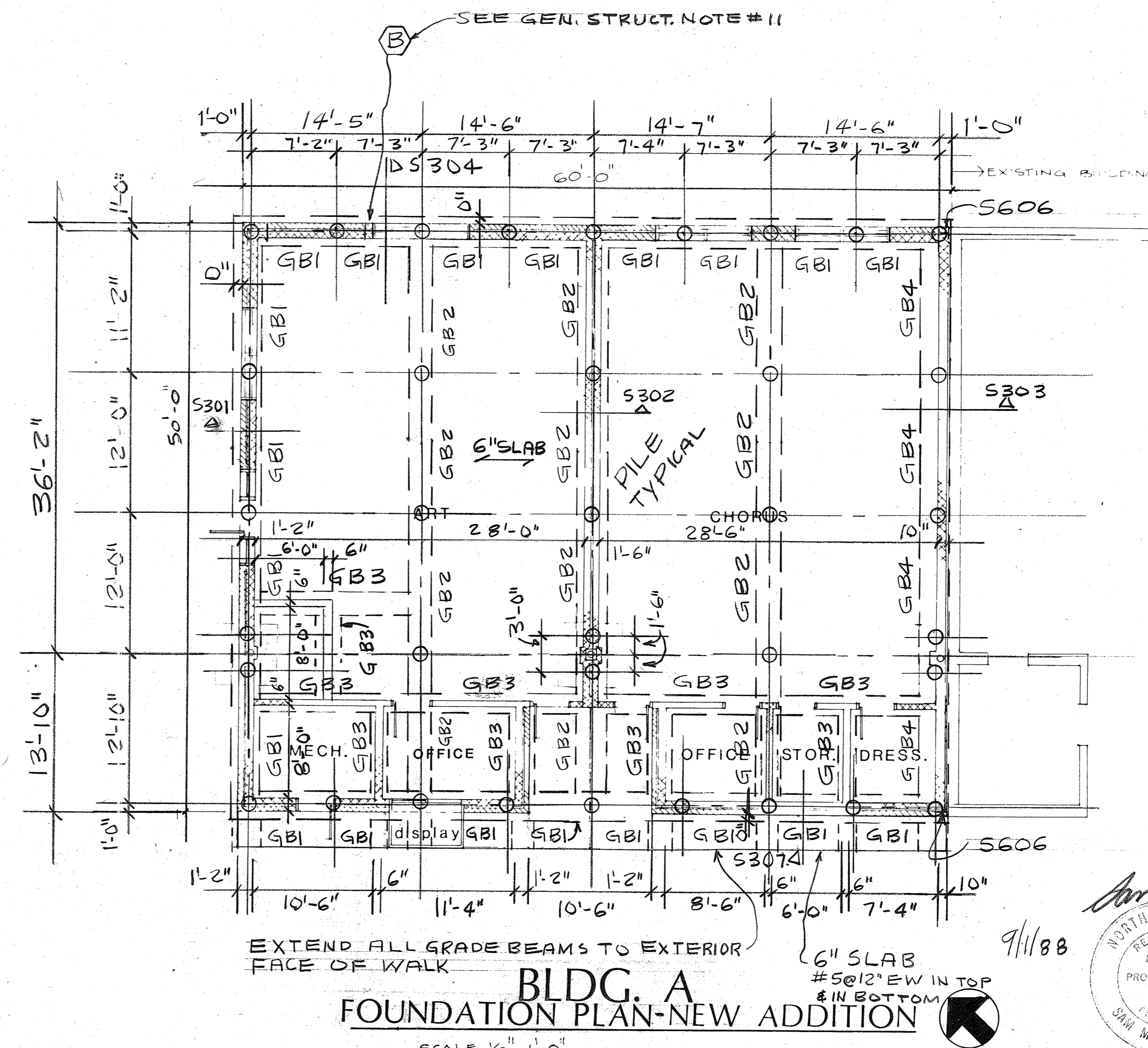
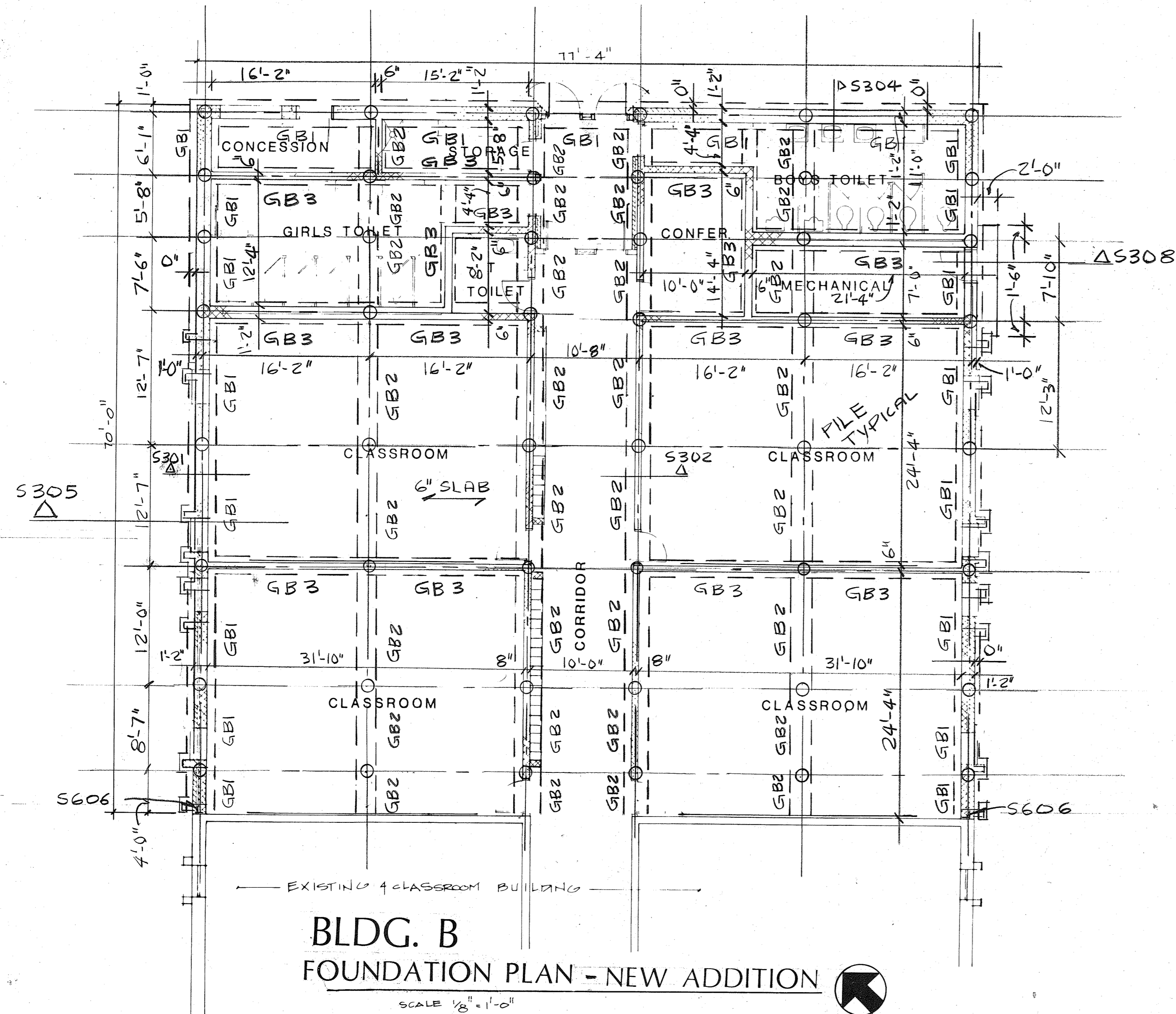
MARK	WIDTH	DEPTH	BOTT. BARS	TOP BARS	TIES #3
GB1	24"	24"	4-#5	4-#5	2@6", @12"
GB2	24"	24"	4-#5	4-#5	2@6", @12"
GB3	12"	24"	4-#5	4-#5	2@6", @12"
GB4	36"	24"	6-#5	6-#5	2@3", 4@6", @12"



S301 EXTERIOR GRADE BEAM

S302 INTERIOR GRADE BEAM

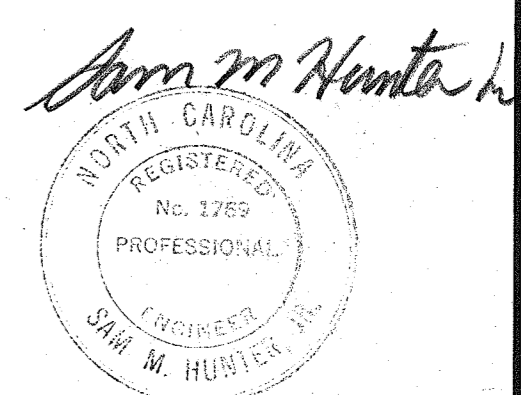
COORDINATE STEP DIMENSIONS WITH ARCHT. DRAWINGS.



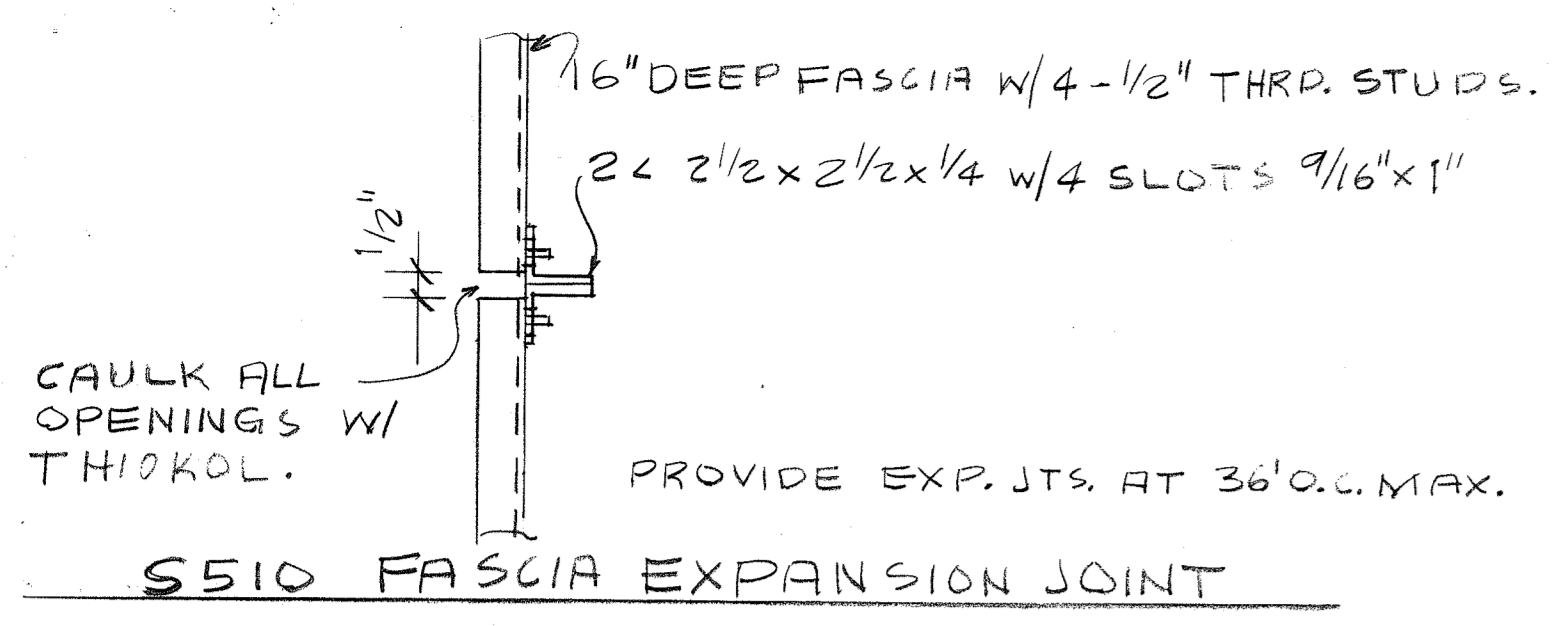
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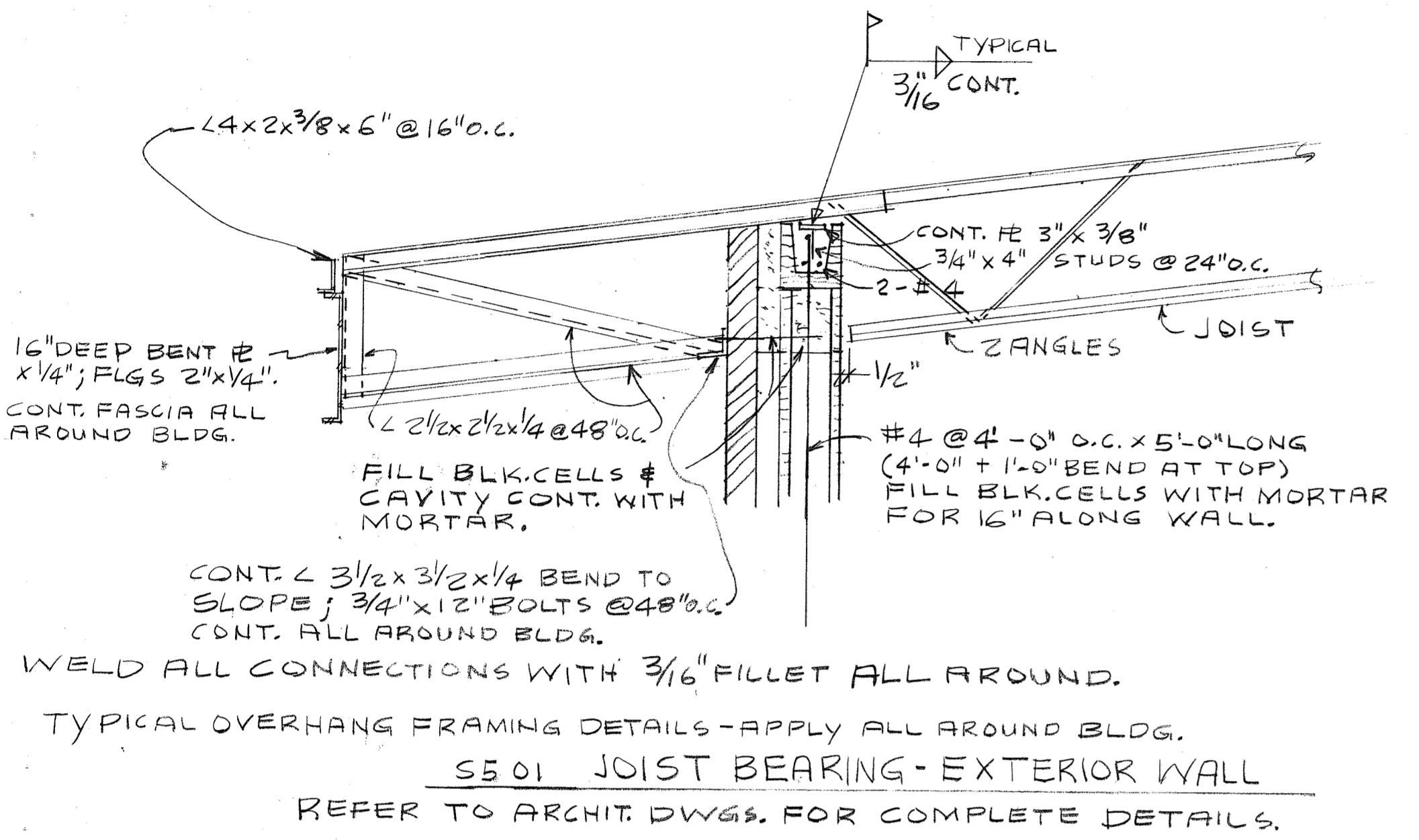
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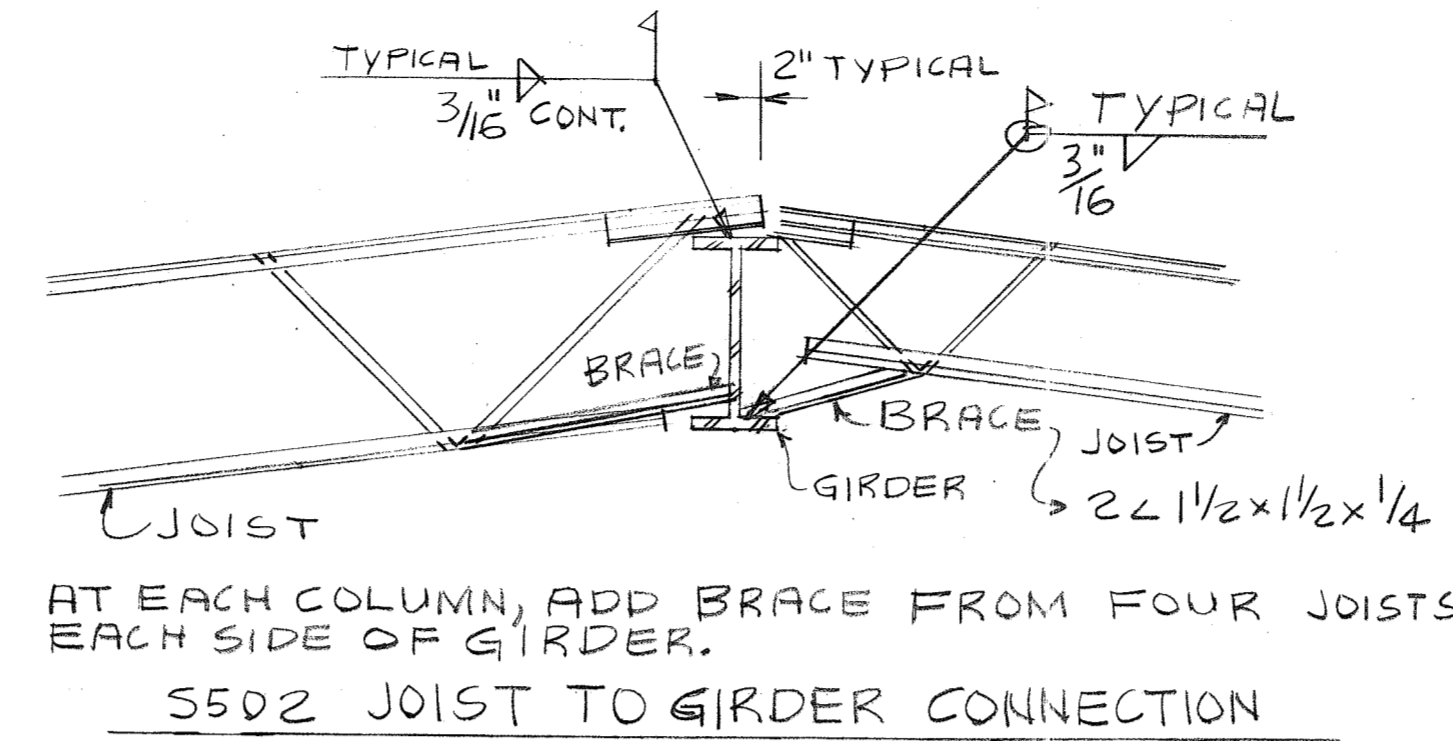
S-3
 NORTHWOODS



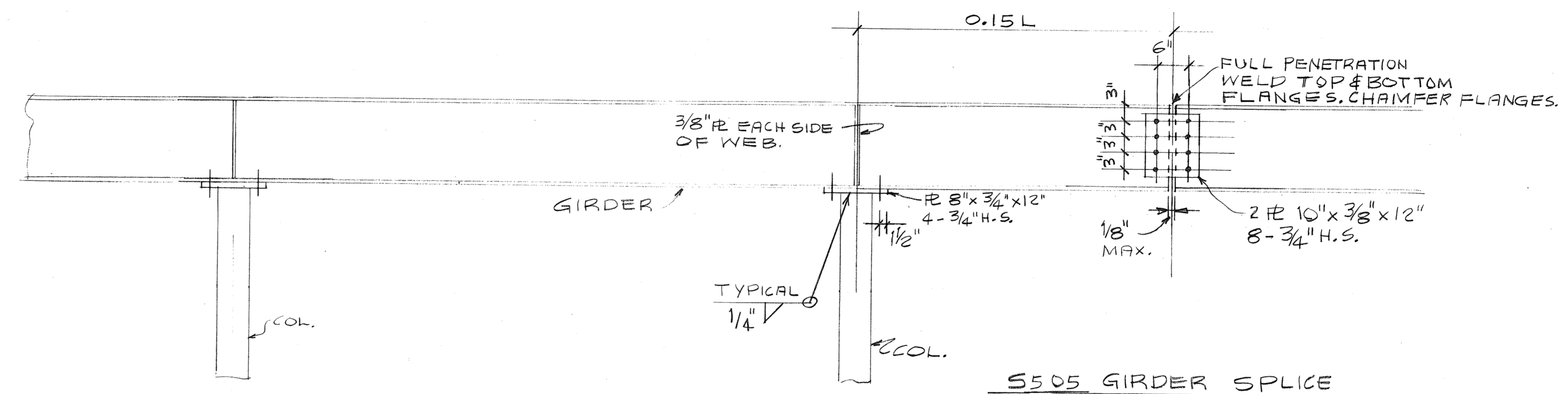
S510 FASCIA EXPANSION JOINT



S501 JOIST BEARING - EXTERIOR WALL
REFER TO ARCHIT. DWGS. FOR COMPLETE DETAILS.

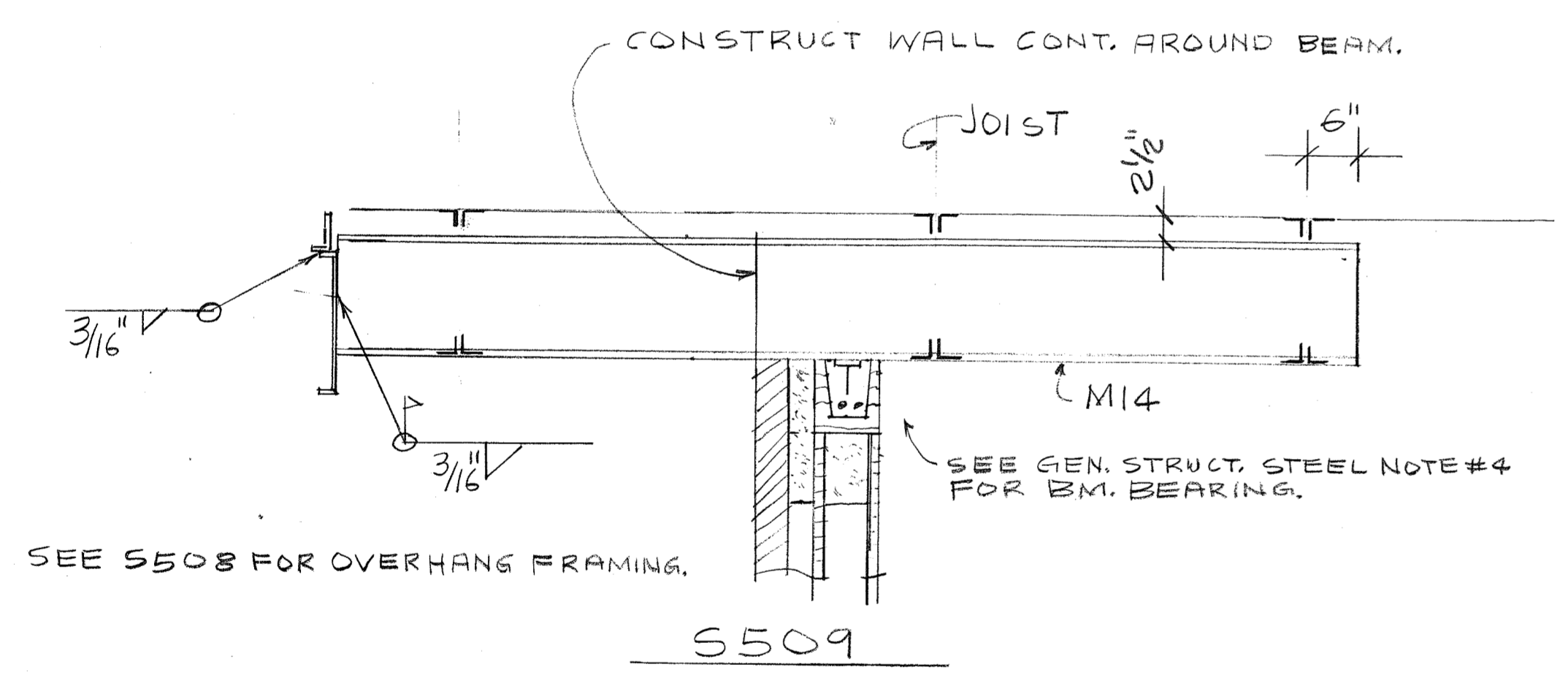


S502 JOIST TO GIRDER CONNECTION
AT EACH COLUMN, ADD BRACE FROM FOUR JOISTS EACH SIDE OF GIRDER.

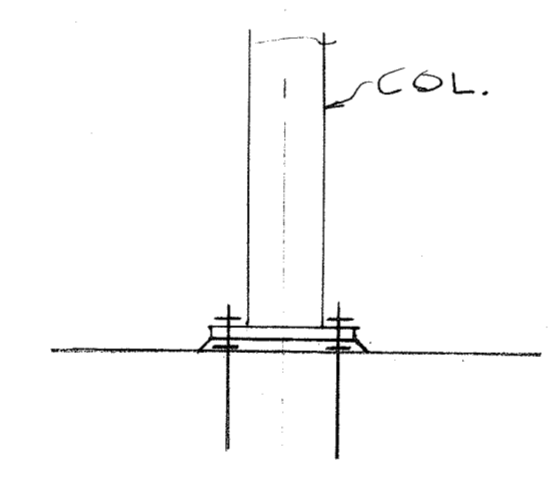


S503 GIRDER TO EXTERIOR COLUMN
SEE S504 FOR DETAILS.

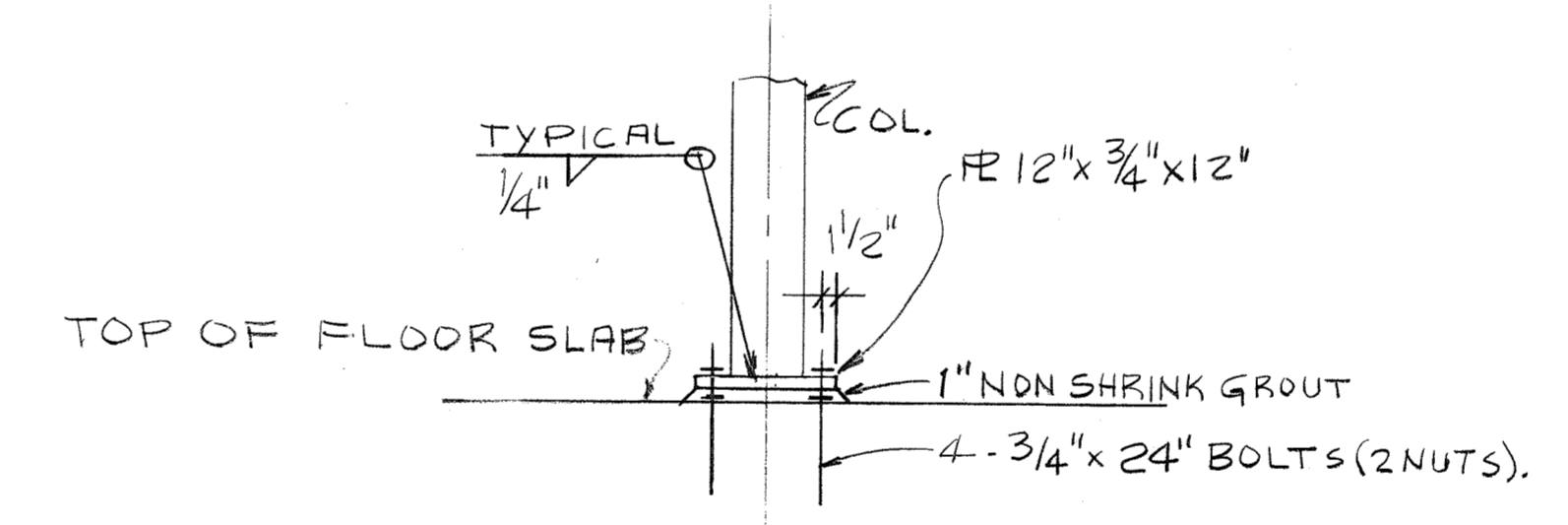
S504 GIRDER TO INTERIOR COLUMN



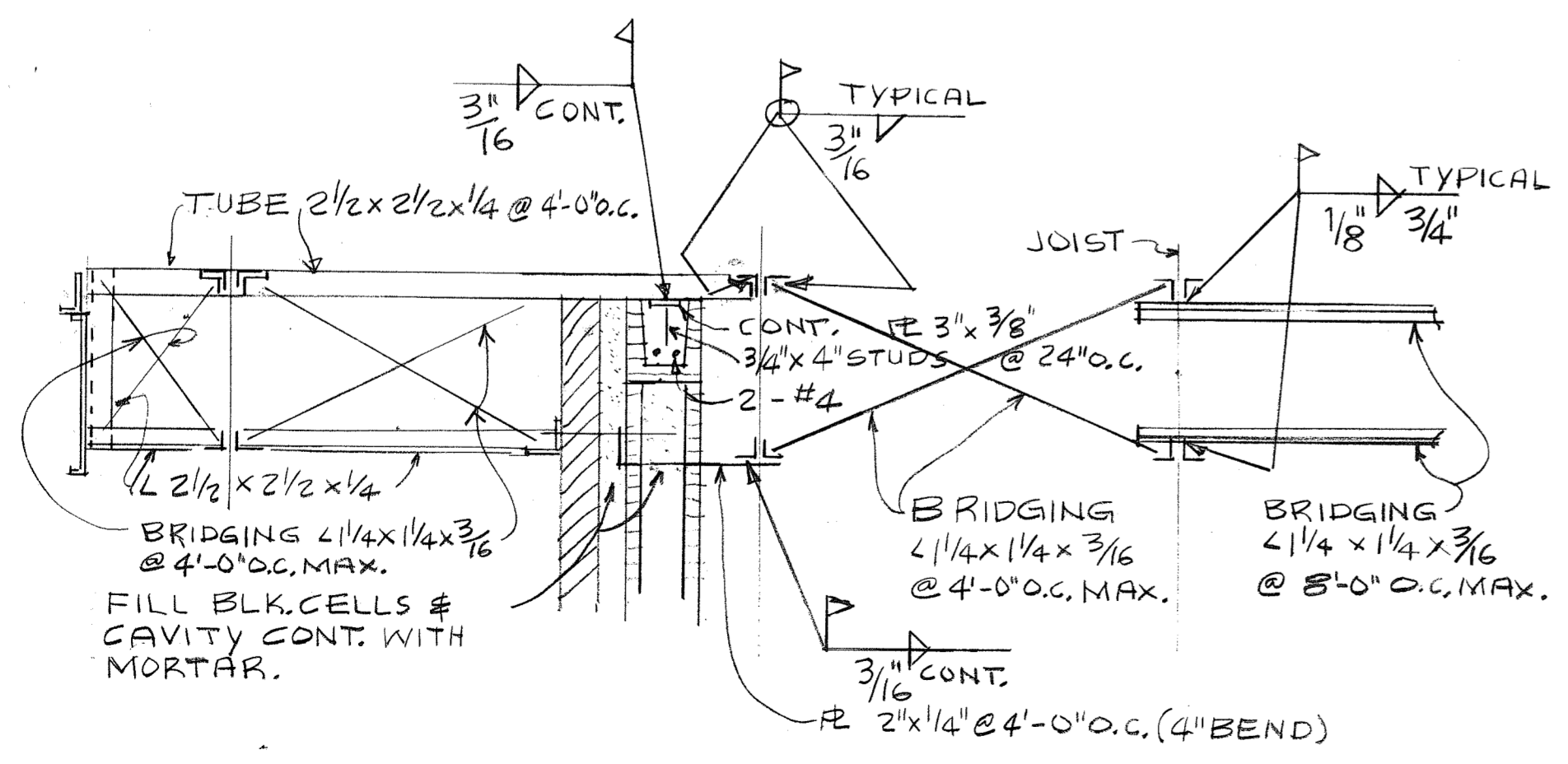
S509
SEE S508 FOR OVERHANG FRAMING.



S506 EXTERIOR COL. BASE
SEE S507 FOR DETAILS.



S507 INTERIOR COL. BASE



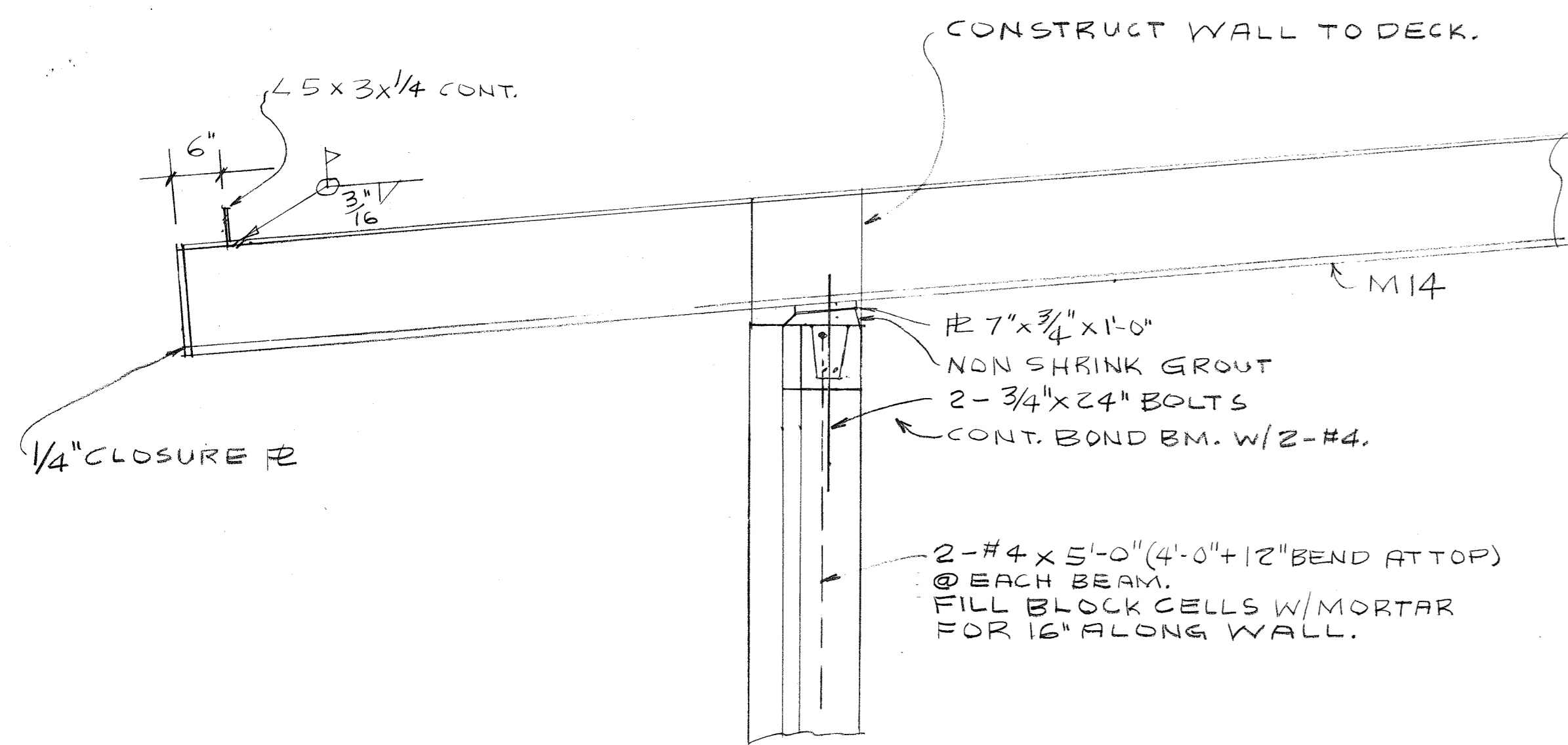
S508 JOIST BRIDGING DETAILS

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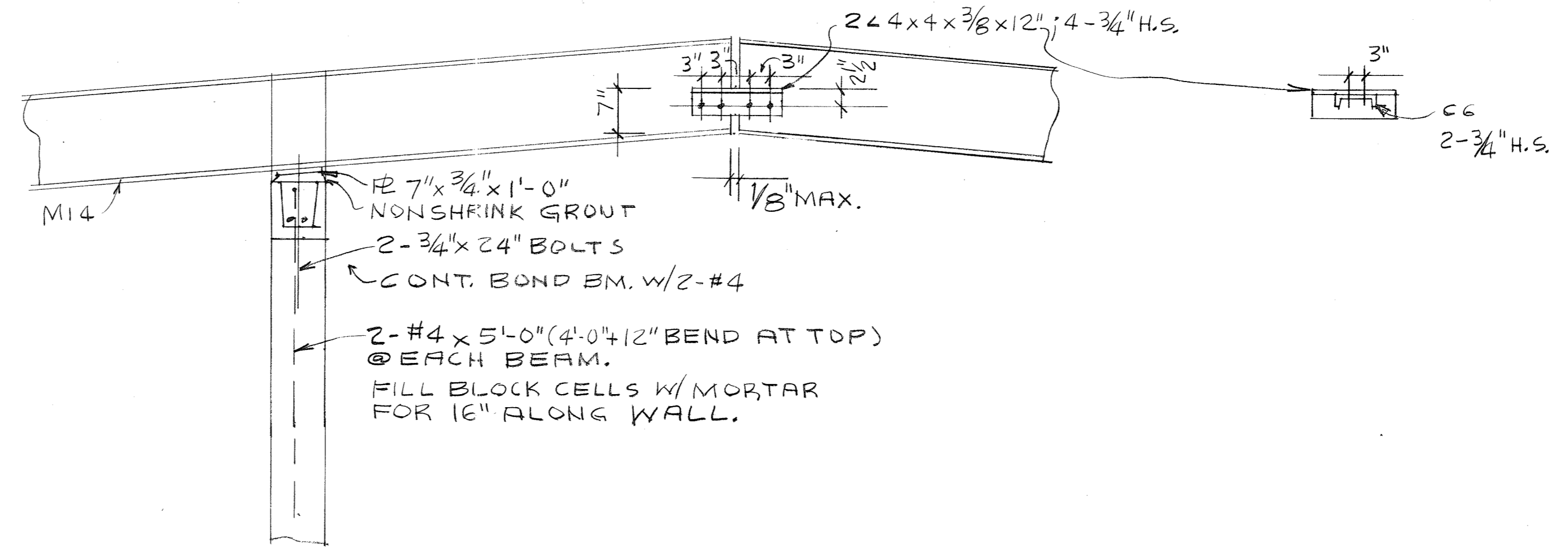
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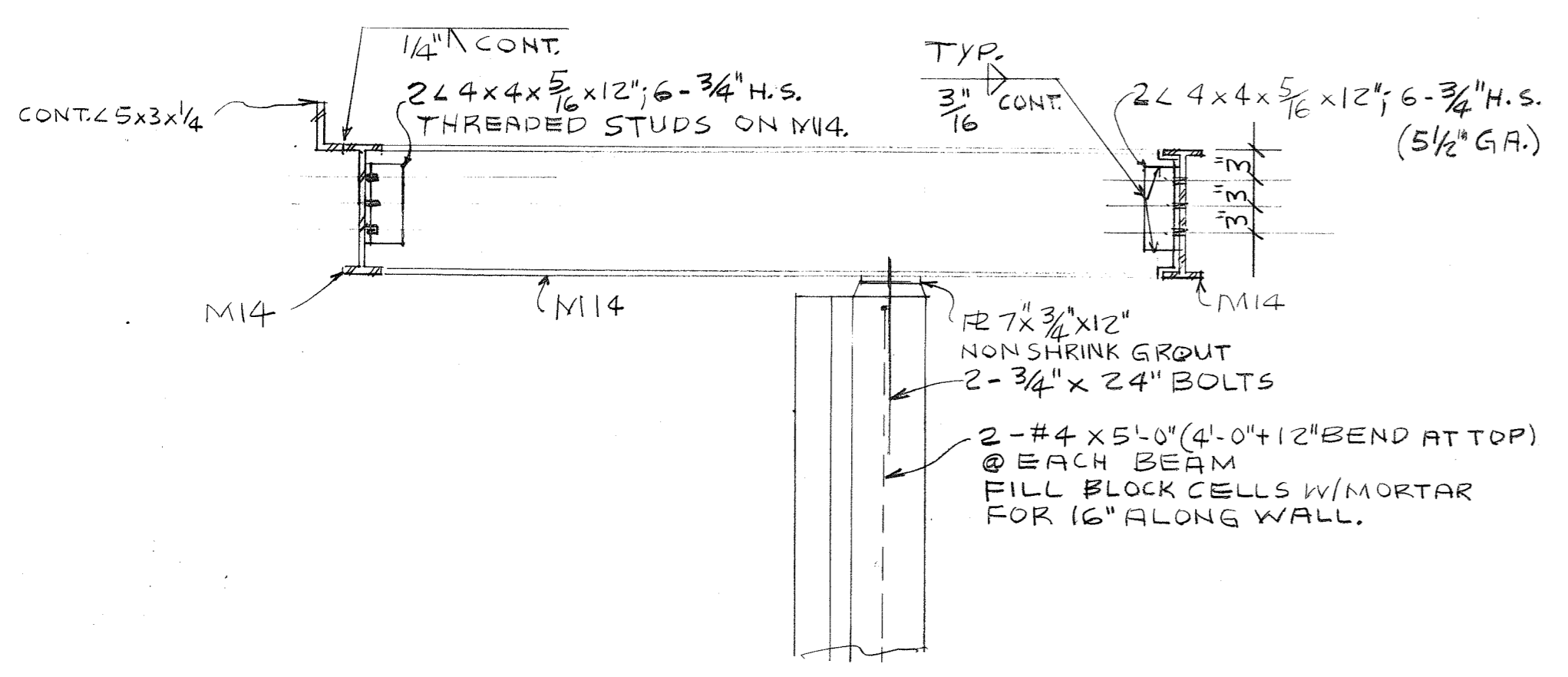
Ann M. Hunter Jr
9/1/88



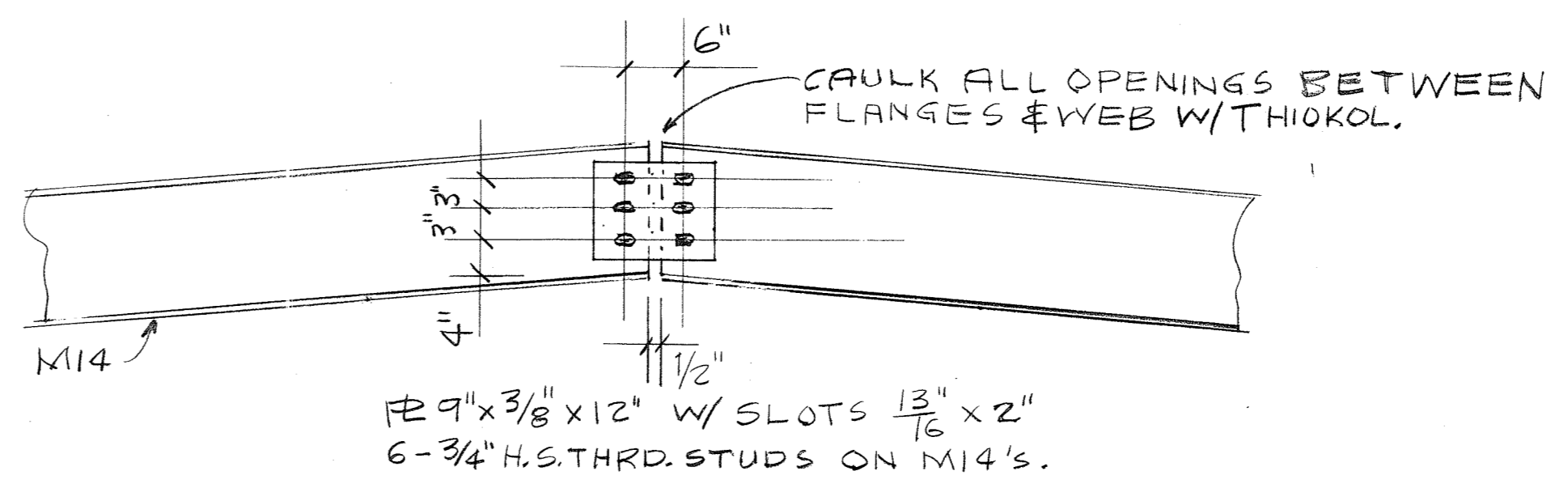
S601 BEAM BEARING AT EXTERIOR WALL



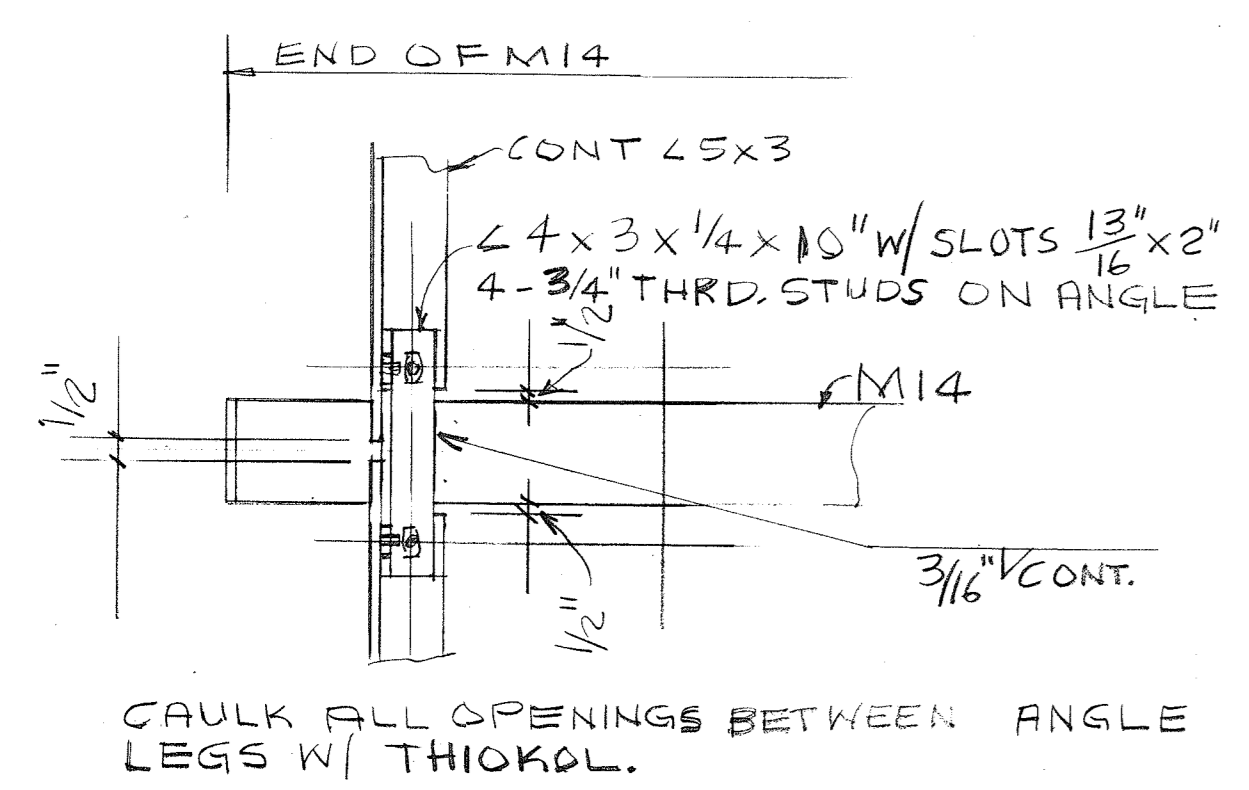
S602 BEAM BEARING AT INTERIOR WALL



S603 BEAM DETAILS AT END WALL



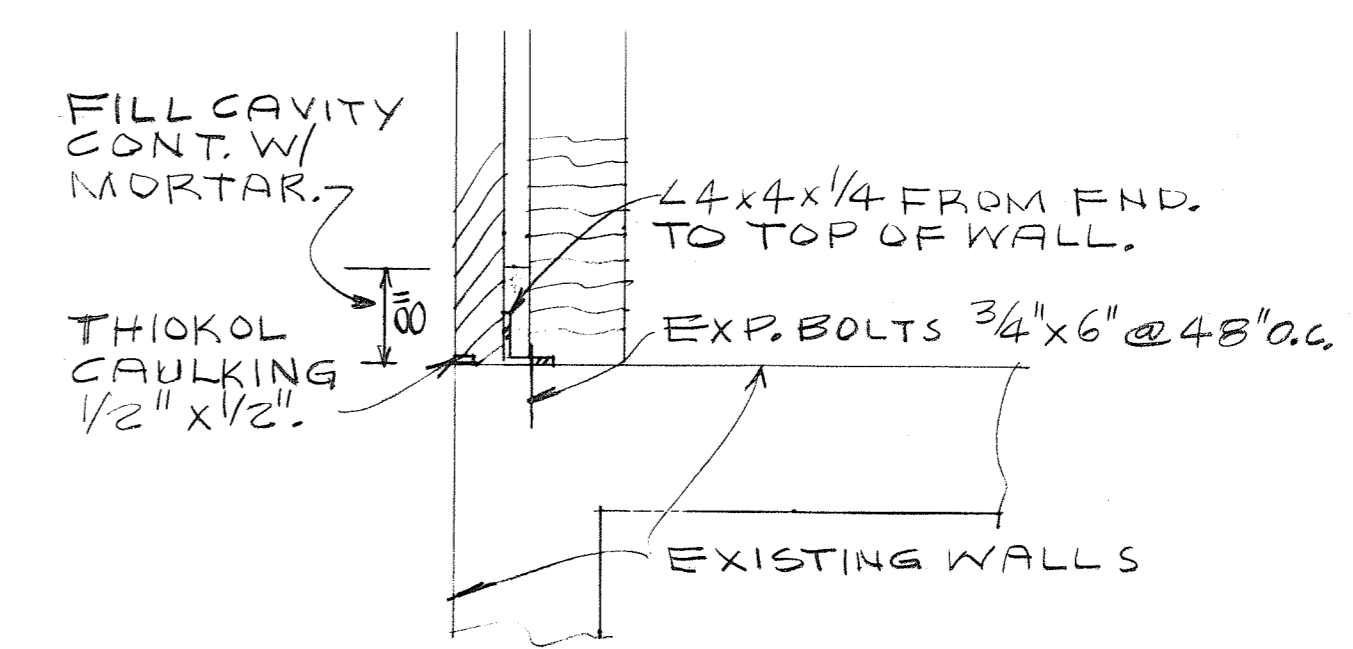
S604 FASCIA BEAM EXPANSION JOINT



CAULK ALL OPENINGS BETWEEN ANGLE LEGS W/ THIKOL.

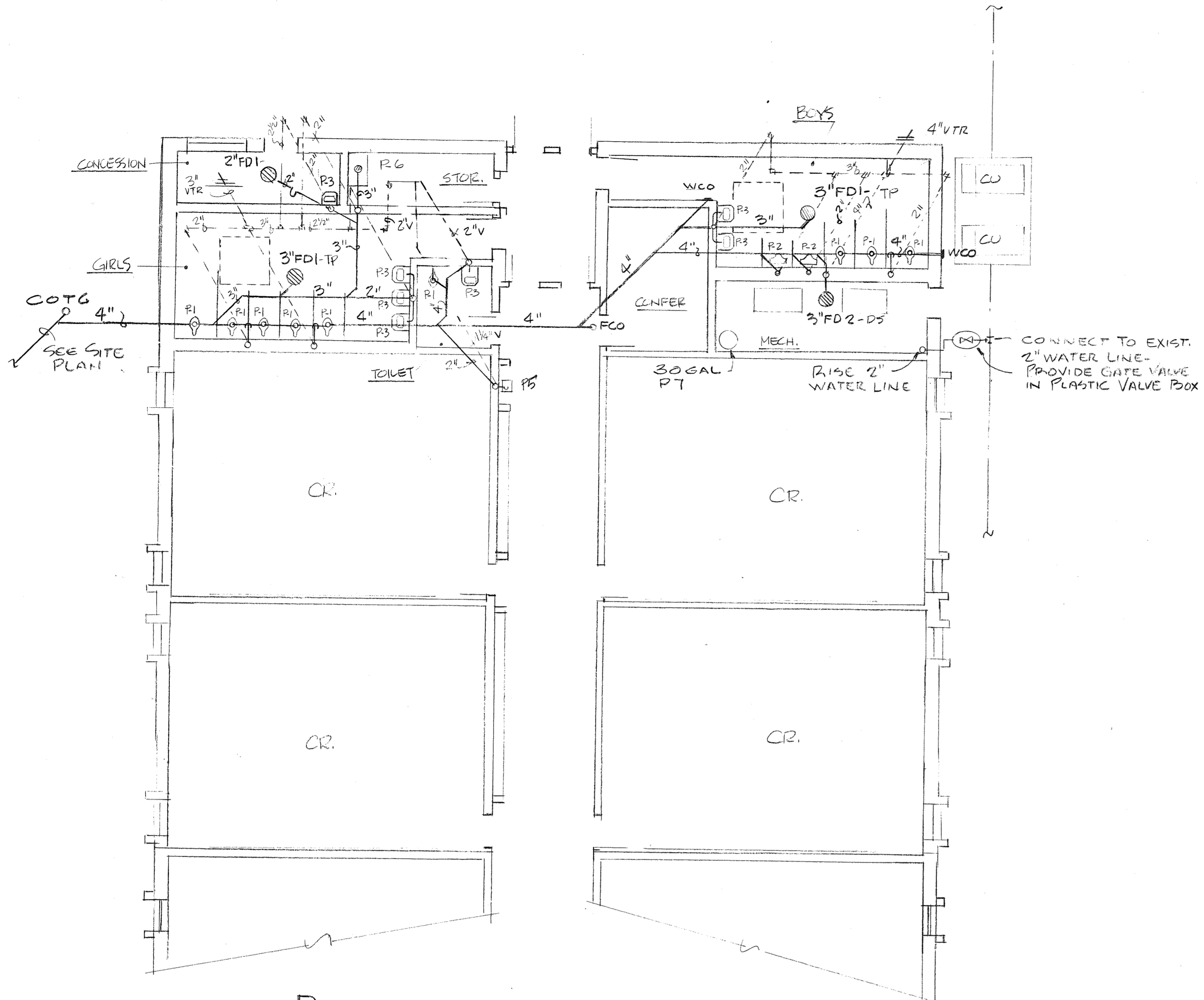
S605 FASCIA ANGLE EXPANSION JOINT

PROVIDE EXP. JTS. AT 36'-0\"/>

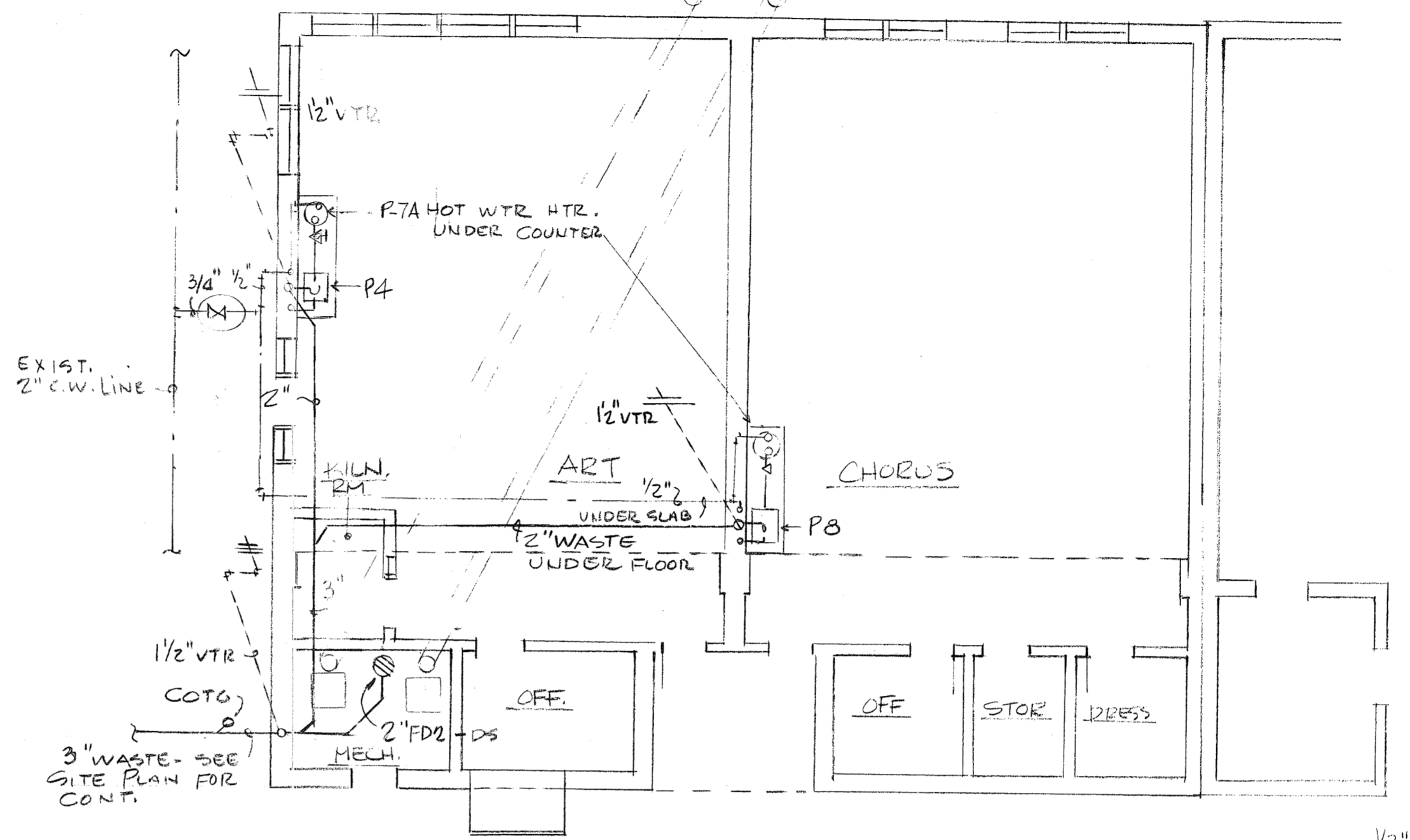
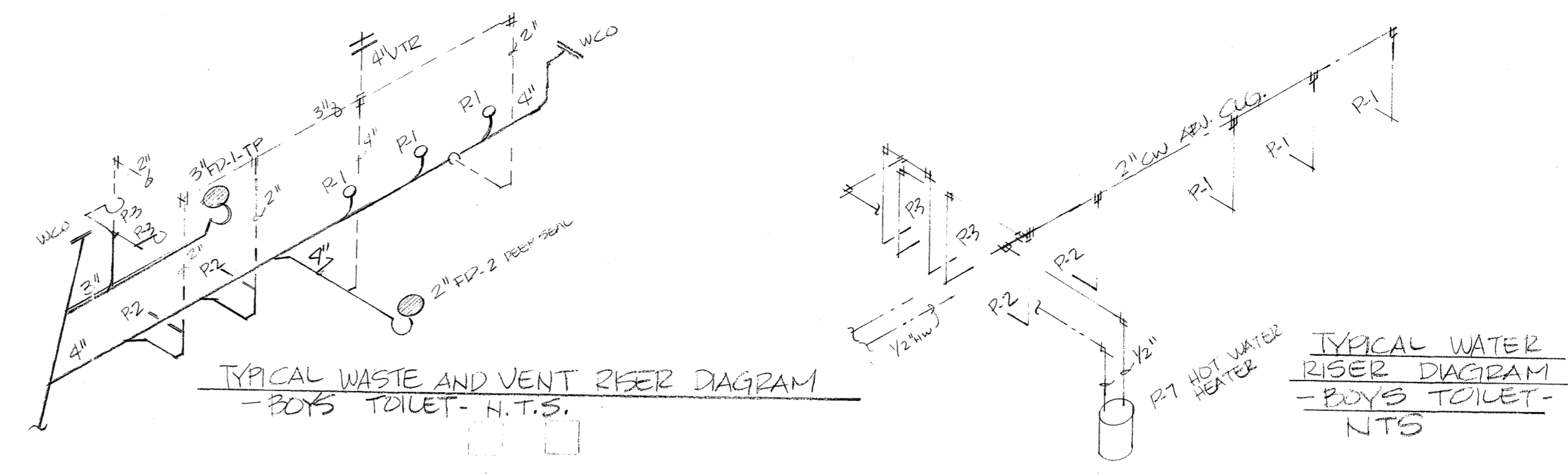


S606 CONNECTION NEW WALL TO EXIST. WALL
PLAN

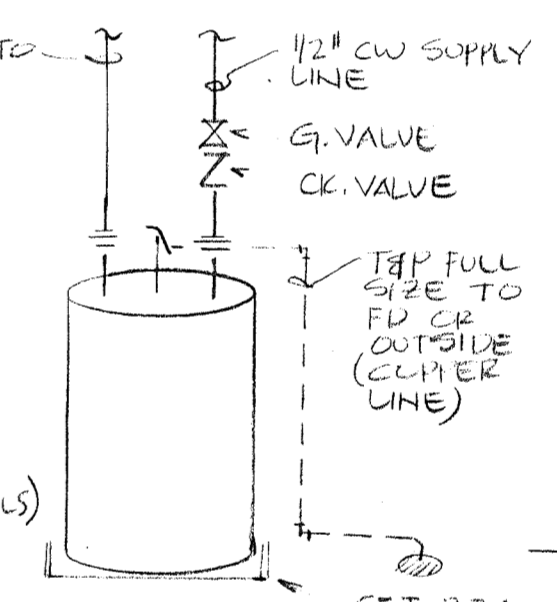
John M. Hovatta Jr
9/1/88



B FLOOR PLAN NEW ADDITION
SCALE 1/8" = 1'-0"



A - FLOOR PLAN - NEW ADDITION
SCALE 1/8" = 1'-0"



WATER HEATER DESCRIPTIONS (BOTH SCHOOLS)

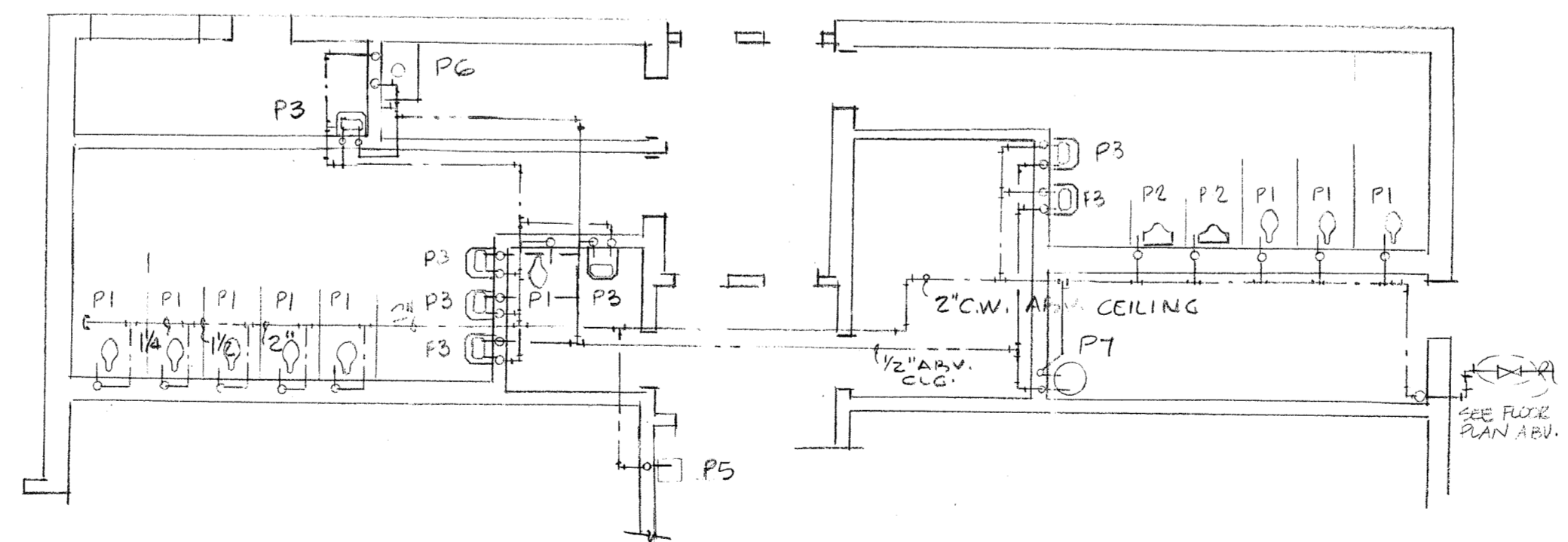
- P7 - 30 GAL - MEDIUM SIZE 2" FIBERGLASS INSULATION, DUAL ANODE RODS, SAND HOG DUAL ELEMENTS, 2-9.5 KW NON-SIMULTANEOUS, FOR 200 V STATE # TV-30-2LES
- P7A 6 GAL. MIDJET MODEL, FIBERGLASS INSULATION, ANODE ROD, 1650 WATT ELEM. WITH PLASTIC PAN., STATE # CV-G-15MS-K PIPE TAP TO OUTSIDE

FLOOR DRAIN SCHEDULE - BOTH SCHOOLS				
SYMBOL	DESCRIPTION	TOP	MANUFAC.	MODEL NO
FD-1	CAST IRON BODY, FLANGED CLAMPING COLLAR, SEWAGE ONLY, ADJUST. TOP SIZE AS SHOWN ON PLANS	5'x5' SQUARE NICKEL BRONZE	WADE	W-1100-G
FD-2	SAME AS FD-1 BUT WITH EXTENDED PIN - OUTLET SIZE AS SHOWN ON PLANS.	5'x5' - NICKEL BRONZE	WADE	W-1100-G

NOTE - SUFFIX DS DENOTES DEEP SEAL TRAPS
SUFFIX TP DENOTES TRAP PLUMBER TAPPING (W-6) WITH 1/2" CW. LINE FROM UNDER FLOOR FROM NEARBY LAVATORY WITH WADE W-2400 TRAP PRIMER VALVE.

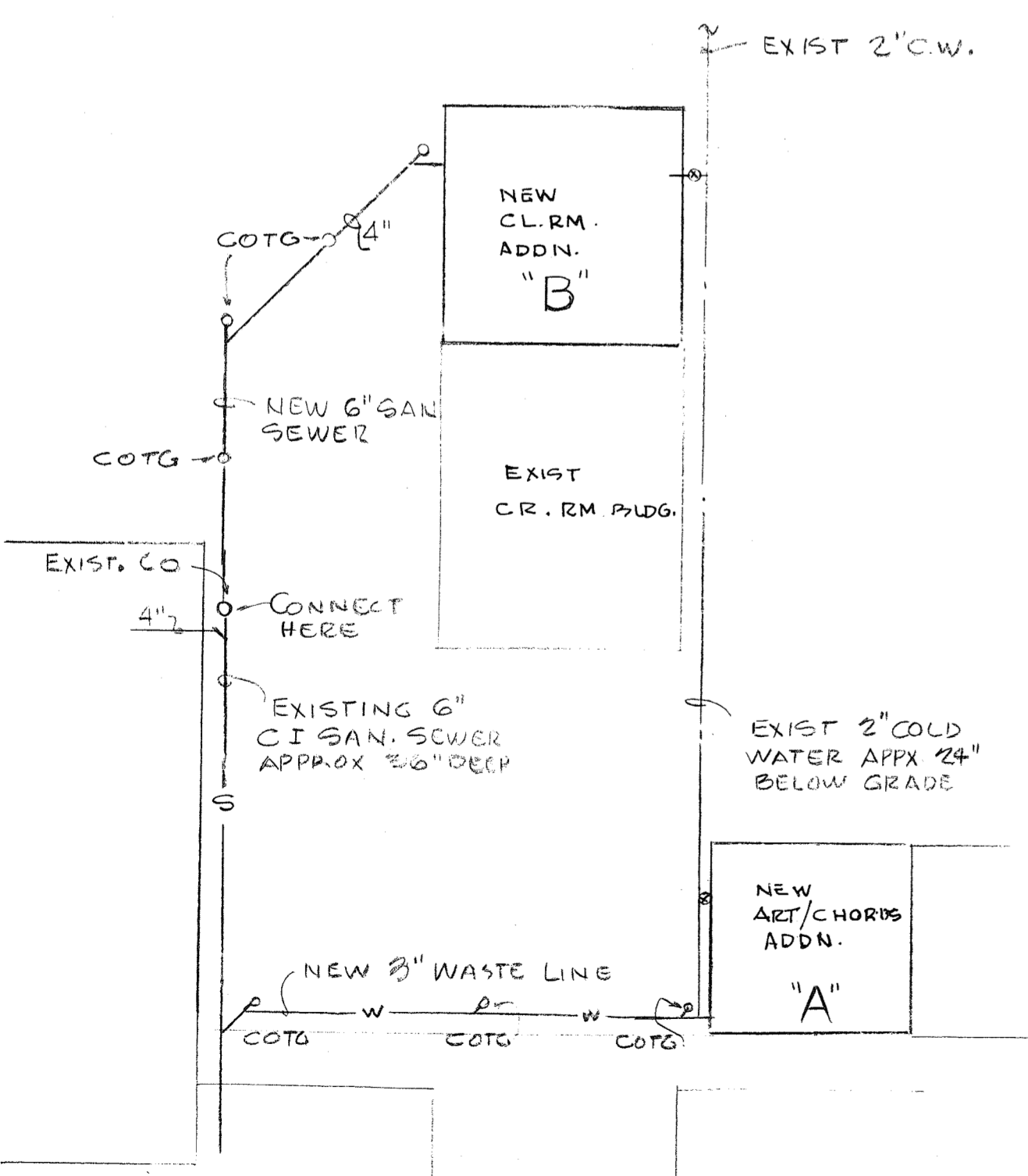
PLUMBING FIXTURE SCHEDULE

TYPE	PRIME#	DESCRIPTION	HW	CW	WASTE	REMARKS
P1		WATER CLOSET, FLUSH VALVE	-	1"	4"	
P2		URINAL	-	1"	2"	
P3		LAVATORY HOT + COLD	1/2"	1/2"	1 1/4"	1 1/4" P TRAP
P4		ART RM SINK 24x12x12	1/2"	1/2"	1 1/2"	WITH PLASTER TRAP
P5		ELEC WATER COOLER	-	1/2"	1 1/4"	
P6		JANITOR FLOOR SINK	1/2"	1/2"	3"	24x36"
P7		HOT WATER HEATER	1/2"	1/2"	TAP TO FD-2	30 GAL-SEE DESCRIPTION
P7A		HOT WATER HEATER	1/2"	1/2"	TAP TO OUTSIDE	6 GAL-SEE DESCRIPTION
P8		BAND RM SINK 31x20x12"D	1/2"	1/2"	1 1/2"	SEE SPECS ON TRAXLER SCHOOL SHT P-1



PART PLAN - WATER PIPING
SCALE 1/8" = 1'-0"

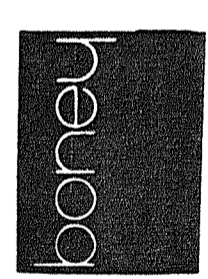
TOTAL CONNECTED LOAD
FIXTURE UNITS WASTE - 95
" " COLD WATER - 115
MAX DEMAND TO GPM WATER



PART SITE PLAN
APPX SCALE 1" = 50'

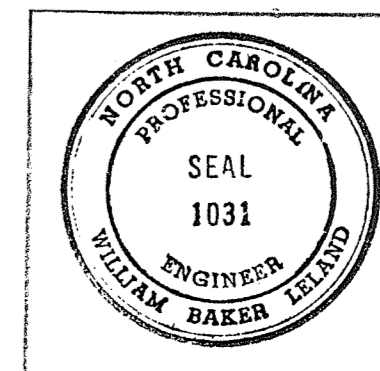
NORTHWOODS PARK MIDDLE SCHOOL
CLASSROOM BUILDING ADDITIONS
Jacksonville, North Carolina

boney architects
120 south fifth avenue
wilmington north carolina



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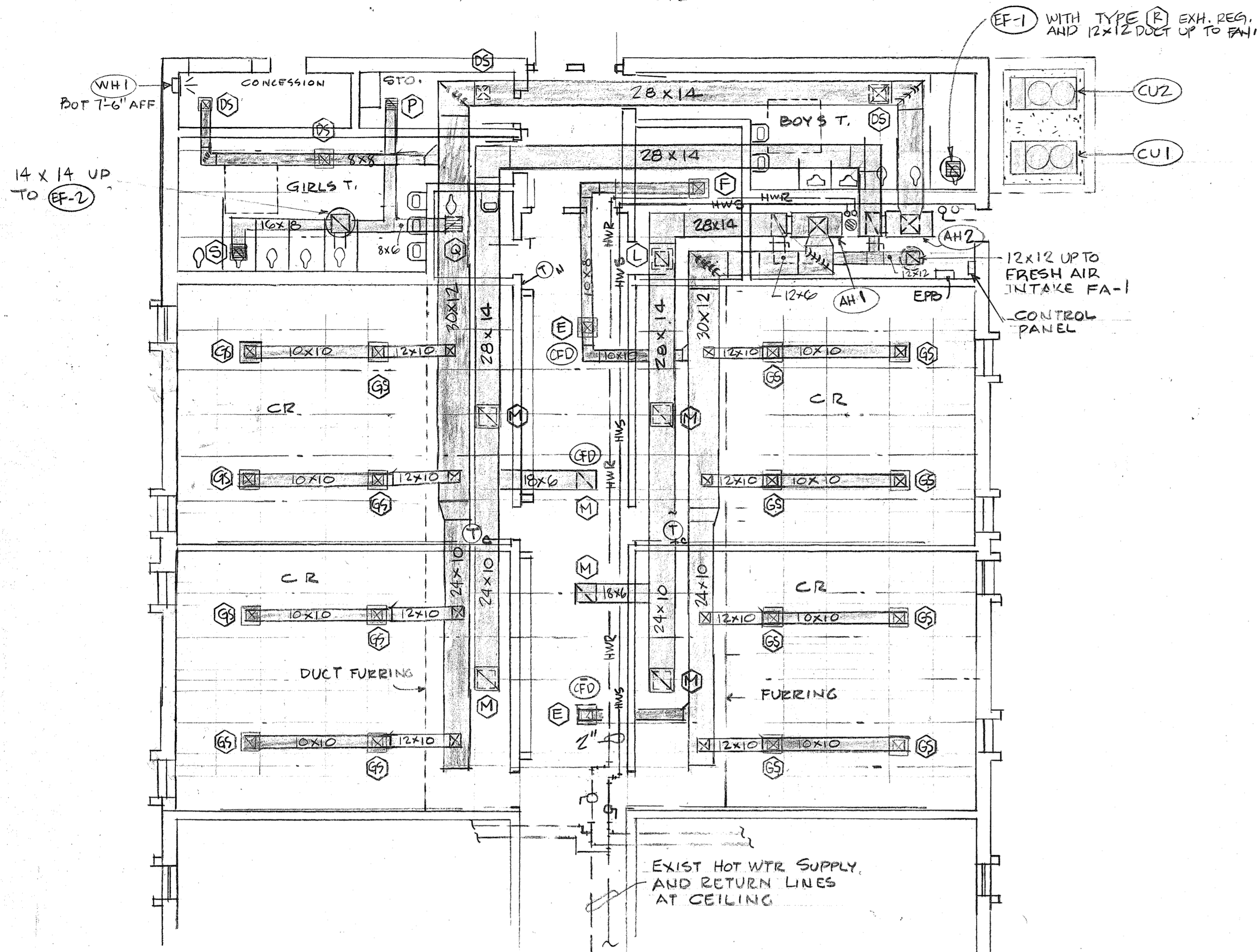
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CHARLES H. BONEY, AIA
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date SEPT. 19, 1988
boney project no



PLUMBING
WILLIAM B. LELAND
ENGINEER
CHARLESTON, S.C.
JOB NO: 1728-B
DATE: SEP-88
SHT NO: P-10P1

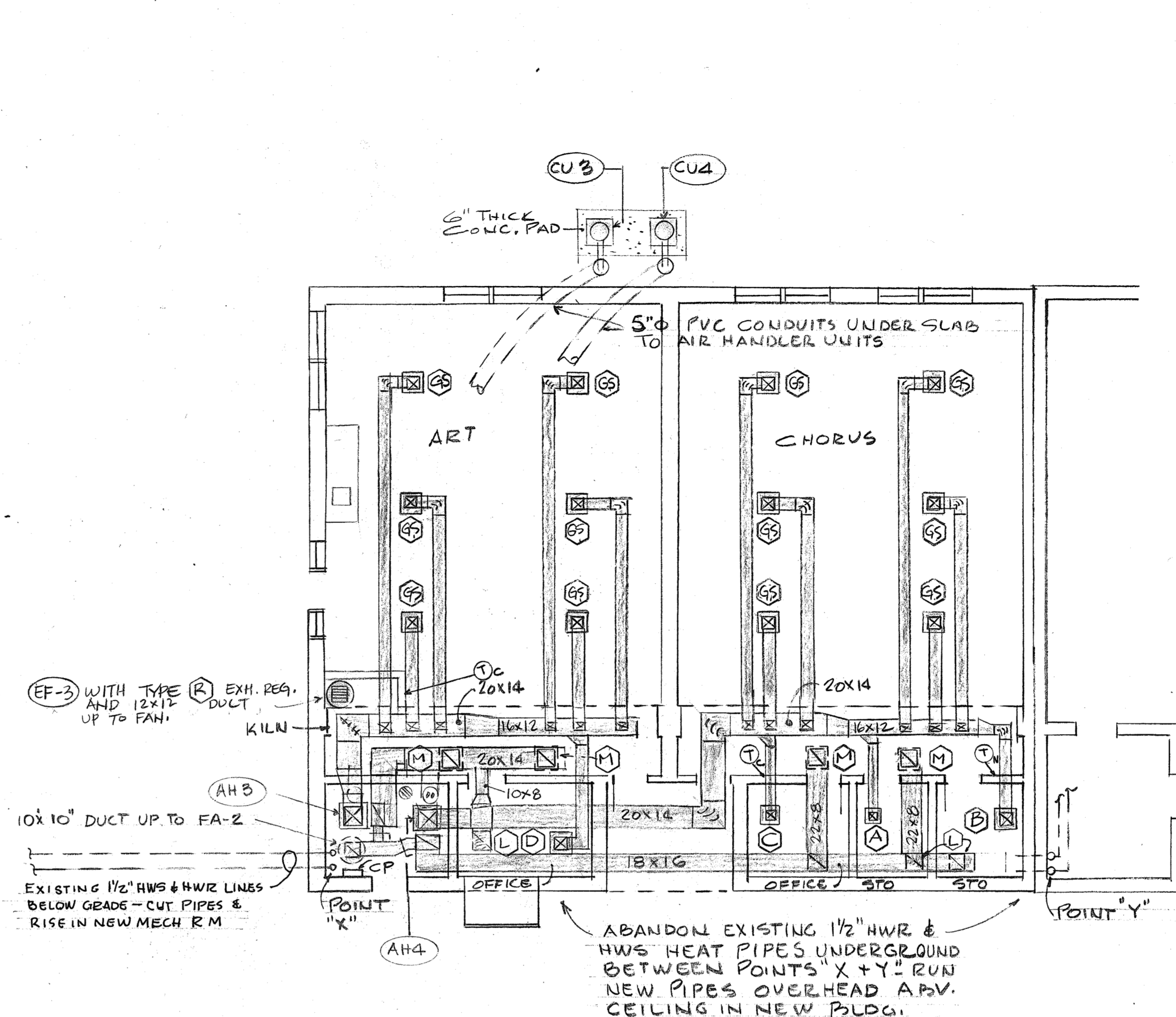
WH-1 DESCRIPTION

WH-1 WALL HEATED, HEAVY DUTY, 3000 WATTS AT 208V, 1ϕ, WITH BUILT-IN THERMOSTAT CONTROL. UNIDAL RESISTANT, MARTEL MODEL # 3420.



B FLOOR PLAN NEW ADDITION

SCALE 1/8"=1'-0"



A FLOOR PLAN NEW ADDITION

SCALE 1/8"=1'-0"

(NORTHWOODS PARK ONLY)

INDOOR UNIT						OUTDOOR UNIT											
SYMBOL	CFM TOT OA	EXT SP "H ₂ O	FAN MOTOR			HEATING COIL			DESIGN UNIT	SYMBOL	COOL CAPY ARI	ELECTRICAL			DESIGN UNIT	REF. LINES	
			HP	φ	V	BTUH Rows	GPM PD	MCA				KW	φ	V			
AH-1	3000	1"	1 1/2	3φ	208	955	2	6.0	SE TRANS BWE090C	CU1	92.0	41.0	8.0	3	208	GE TRANE BTA090C-300M	1 3/8"
AH-2	300	DO	1 1/2	3φ	208	955	2	7.2		CU2	DO						1/2"
AH-3	2000	0.6"	1	1φ	208	67.0	2	4	BWE060C	CU3	60.0	25.2	6.67	3	208	TJA060A-300A	1 1/8"
AH-4	200	DO						3.0		CU4							3/8"

NOTES

- HOT WATER COILS RATED AT 70°F ENT AIR 180°F ENT WATER
- FILTERS IN AH-1, 2 ARE 2-24x24x1 SEMI-PERM. IN AH-3, 4 1-1"x21 1/2"x27" DIT TO
- REFRIGERANT LINE SIZES ARE FOR ESTIMATES ONLY - INSTALL AS PER MFRS RECOMMENDATIONS.

EXHAUST FAN SCHEDULE - NORTHWOODS ONLY

SYMBOL	CFM	STATIC PRESS	ELECTRICAL	HP	MAXIMUM TIP SPEED	MANUFAC	MODEL	REMARKS
EF1	590	1/8"	120-1φ-60	1/6	3581	GREEN HECK	A1-12B	LOW PROFILE FAN - MAX HT 13" ABV. CURB
EF-2	922	1/4"	"	1/4	5419	"	A1-12A	DIT TO
EF3	898	1/8"	"	1/20	4869	"	A1-12B	PROVIDE SPEED CONTROL SW.

NOTE: SEE SHEET M-1 - TRAXLER FOR ADDITIONAL SCHEDULES AND DETAILS.

HVAC LEGEND

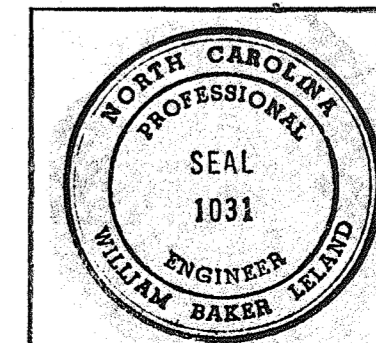
- 24x12 RECTANGULAR SUPPLY, RETURN, OR EXHAUST DUCT - 24"W x 12"D (INSIDE DIMENSION)
- ☒ SUPPLY DUCT SECTION
- ☑ RETURN DUCT SECTION
- ☒ A SUPPLY DIFFUSER - TYPE A NOTED
- ☒ M RETURN GRILLE - TYPE M NOTED
- ☒ S EXHAUST REGISTER OR GRILLE - TYPE S NOTED
- VD VOLUME DAMPER
- SD SPLITTER DAMPER
- ☐ SQUARE CORNER WITH TURNING VANES
- CP CONTROL PANEL
- STREAMLINE DUCT TAKEOFF
- HWS — HOT WATER SUPPLY PIPING
- HWR — HOT WATER RETURN PIPING
- ⊗ GATE VALVES
- ⊙ BALL VALVE
- ⊖ BALANCING COCK
- ⊥ STRAINER
- ⊥ CHECK VALVE
- ⊥ FCV FLOW CONTROL VALVE
- ⊖ TCC THERMOSTAT CONTROL CENTER (HEAT & COOL)
- ⊖ UNION
- ⊖ N NIGHT LOW LIMIT T'STAT 8'-0" AFF
- F.A.I. FRESH AIR INTAKE

DESIGN CONDITIONS

SEASON	OUT DOOR		INDOOR		CAPACITY	
	DB	WB	DB	WB	DESIGN	INSTALLED
WINTER	15	-	70	-	9 + 14 = 23T	10 + 15 = 25T
SUMMER	95	78	78	65	108 + 188 = 296 MBH	181 + 134 = 315 MBH

T = TONS REF MBH = 1000 PSHW
SPARE BOILER CAPY = 900 MBH I

H.V.A.C.



WILLIAM B. LELAND
ENGINEER
CHARLESTON, S.C.

JOB NO: 1728-13
DATE: SEP-88
SHT NO: M-1 OF 3

NORTHWOODS PARK MIDDLE SCHOOL
CLASSROOM BUILDING ADDITIONS
Jacksonville, North Carolina

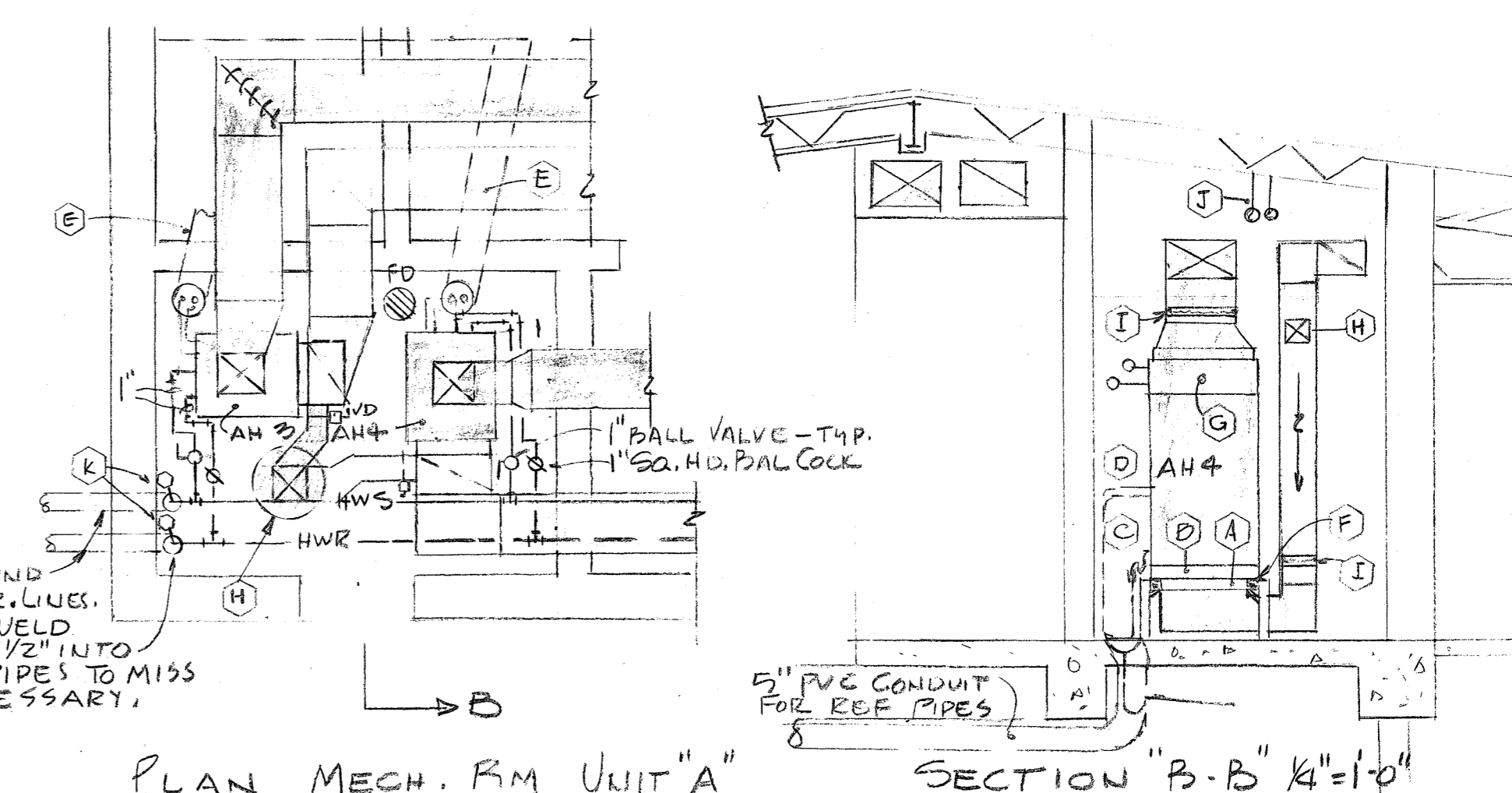
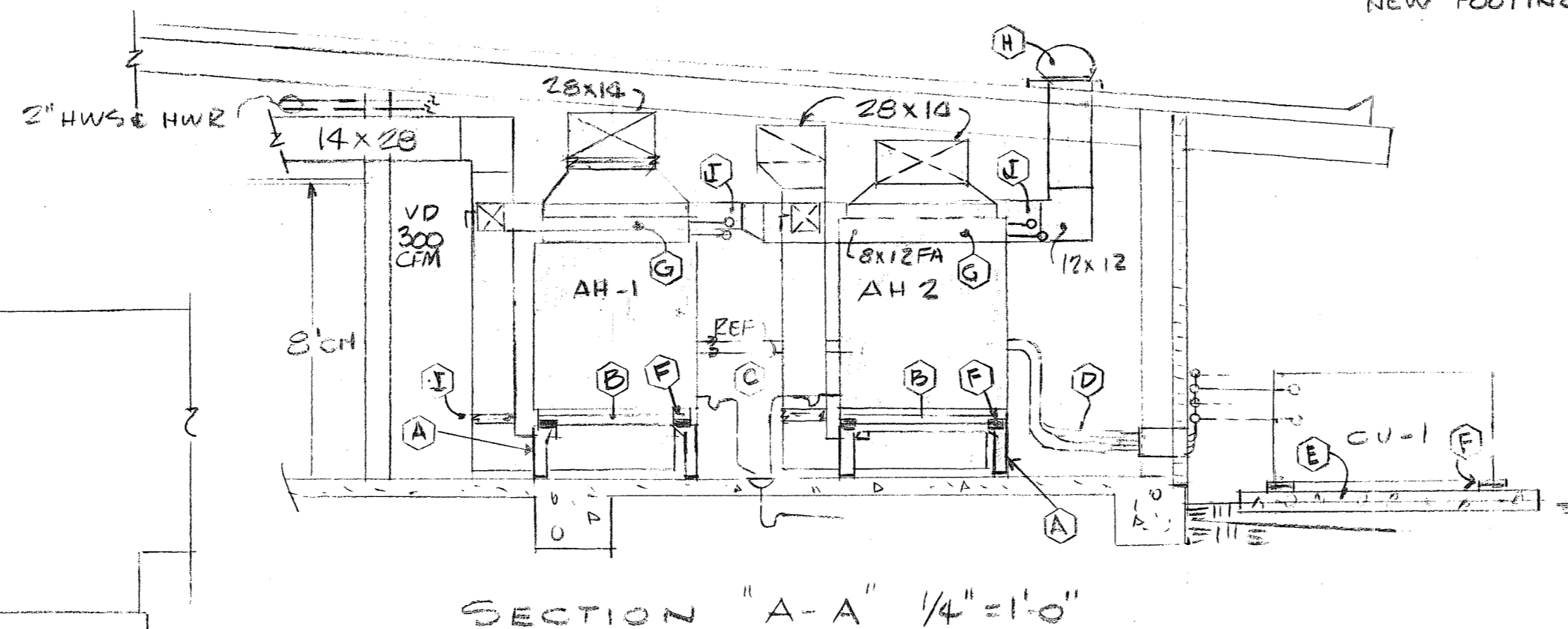
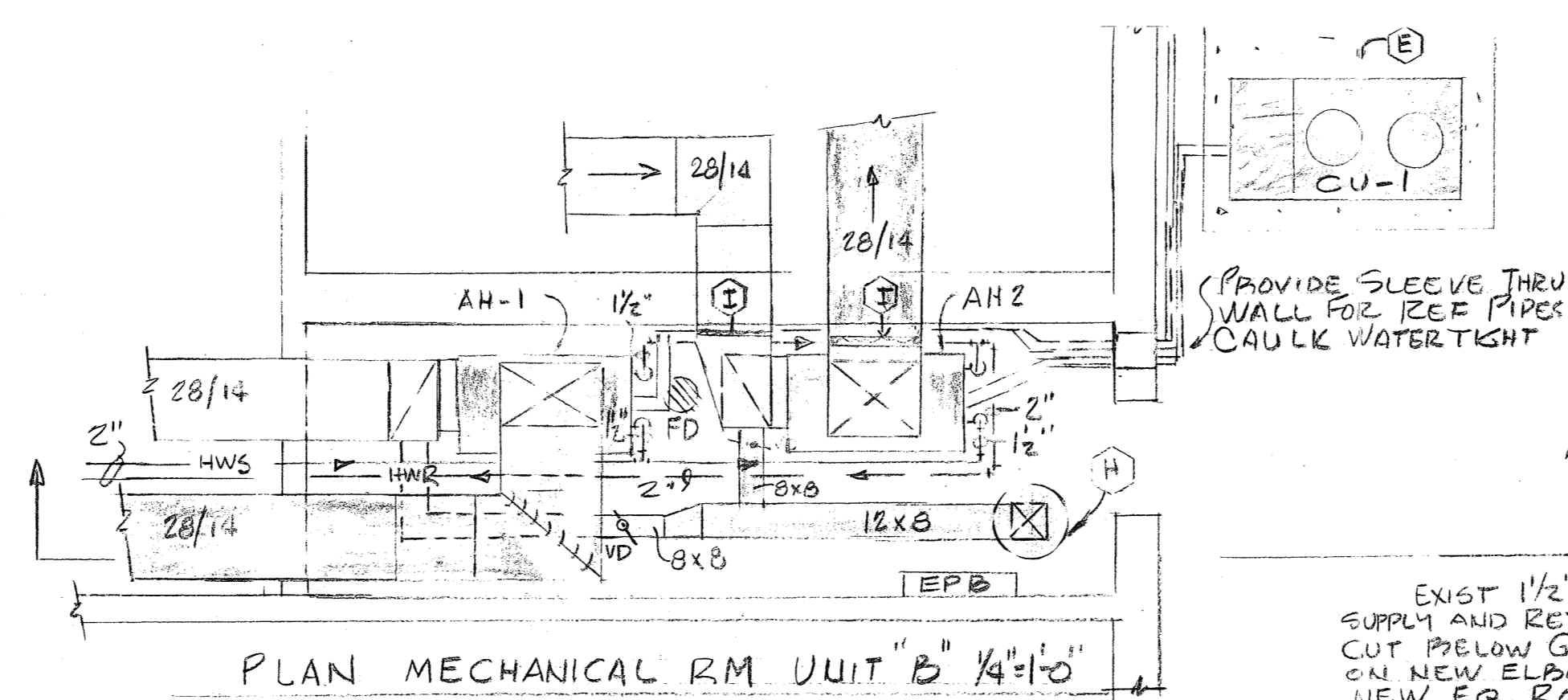
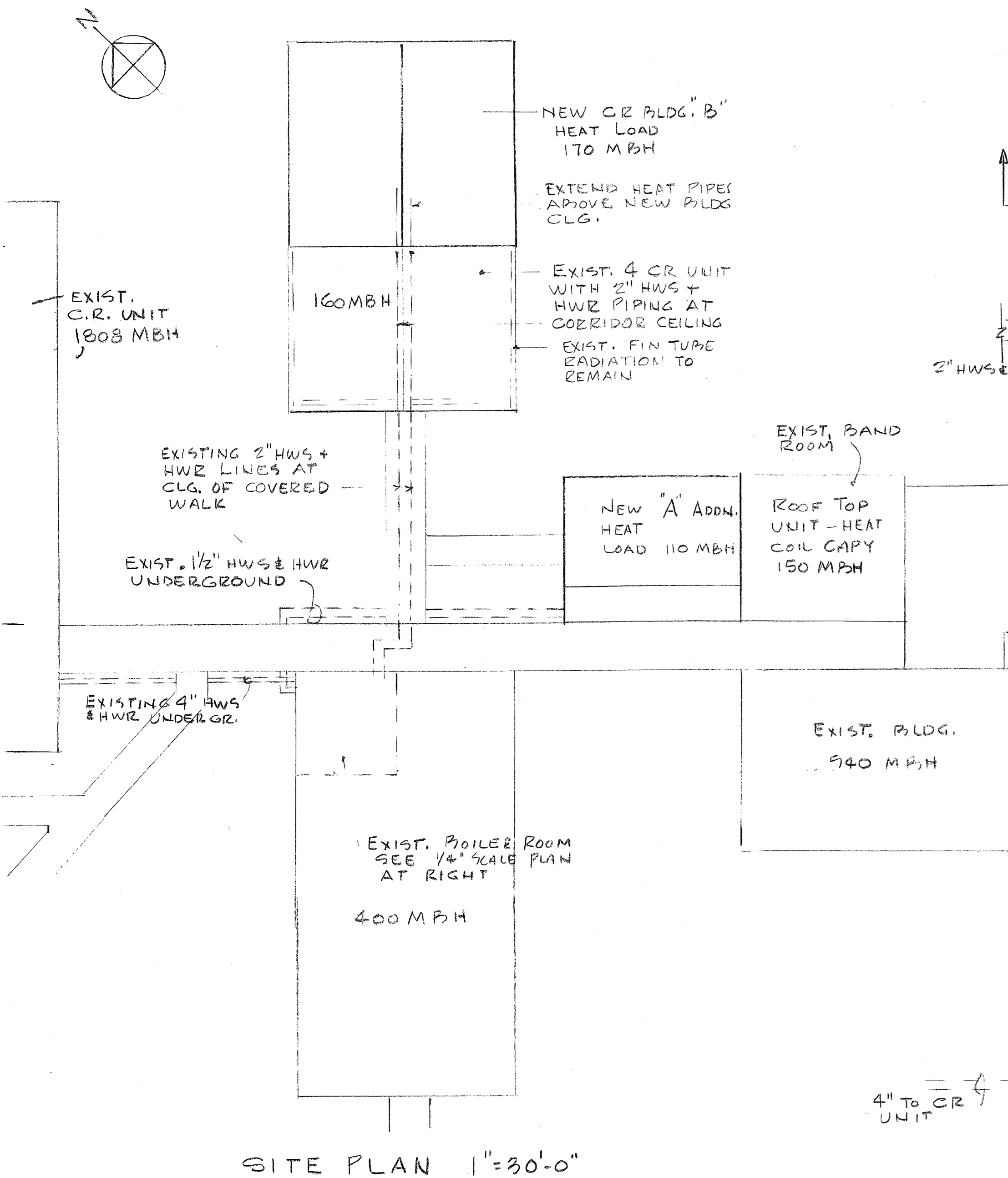
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M-4

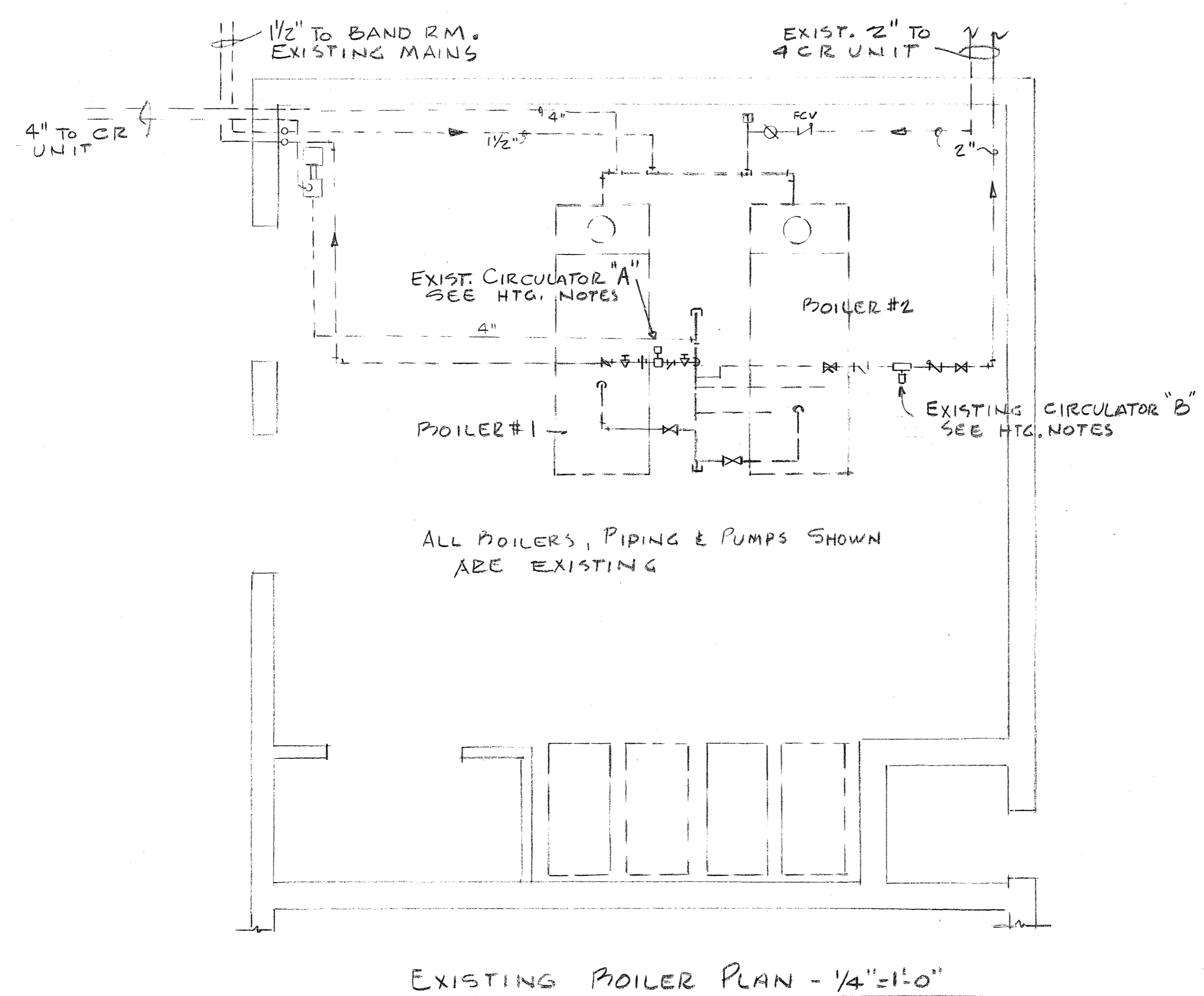


- (A) ANGLE IRON FRAME PAINT 2 COATS BLACK ENAMEL
- (B) FILTER RACK WITH 1-1'x21"x21 1/2" SEMI PERM. H.V.
- (C) 3/4" INSULATED CU DRAIN TO FLOOR DRAIN-PROVIDE PTEAP
- (D) REFRIGERANT LINES-SIZE AS REC BY MFR.
- (E) 5" DIA PVC CONDUIT TO CONDENSING UNIT-RUN UNDER SLAB-INSULATE SECTION
- (F) CORK AND RUBBER PADS UNDER EACH AH UNIT 4"x4"x1"
- (G) HEATING COIL IN FACTORY FURN. ENCLOSURE
- (H) PROVIDE GREENHECK #GRS-10 FRESH AIR INTAKE HOOD ON ROOF WITH 10"x10" PLENUM AND 8"x8" DUCT TO EACH UNIT R.A. DUCT. PROVIDE VOL. DPR SET FOR 200CFM.
- (I) FLEXIBLE CONNECTION
- (J) 1/2" HWS + HWR LINES-NEW PIPING-CONTINUE TO POINT "Y" ON M-1 FLOOR PLAN.
- (K) AUTO AIR VENTS AT HIGH POINT-1/8" PIPED DISCHARGE TO OUTSIDE OR TO F.D.

- (A) ANGLE IRON FRAME FOR AH UNITS - PAINT 2 COATS BLACK ENAMEL
- (B) FILTER RACK WITH 2- 24x24x1" SEMI PERM. FILTERS
- (C) 3/4" COPPER CONDENSATE DRAINS - TRAP & INSULATE - RUN TO FLOOR DRAIN PROVIDED BY PLBG. CONTR.
- (D) REFRIGERANT LINES - BACK ON WALL NEATLY AS POSSIBLE
- (E) CONCRETE PAD 6" DEEP - 6" WIDER & LONGER THAN UNIT
- (F) CORK AND RUBBER PADS - 6"x6"x1" AT CU 4"x4"x1" AT AHU PROVIDE 4 AT EACH UNIT
- (G) HEATING COIL IN FACTORY ENCLOSURE
- (H) FRESH AIR INTAKE GREENHECK GRS-12 OR EQUAL AS SPEC.
- (I) FLEXIBLE CONNECTORS IN ALL SUPPLY & RETURN CONNECTIONS
- (J) HEATING MAINS - HANG ON CLEVIS TYPE HANGERS.

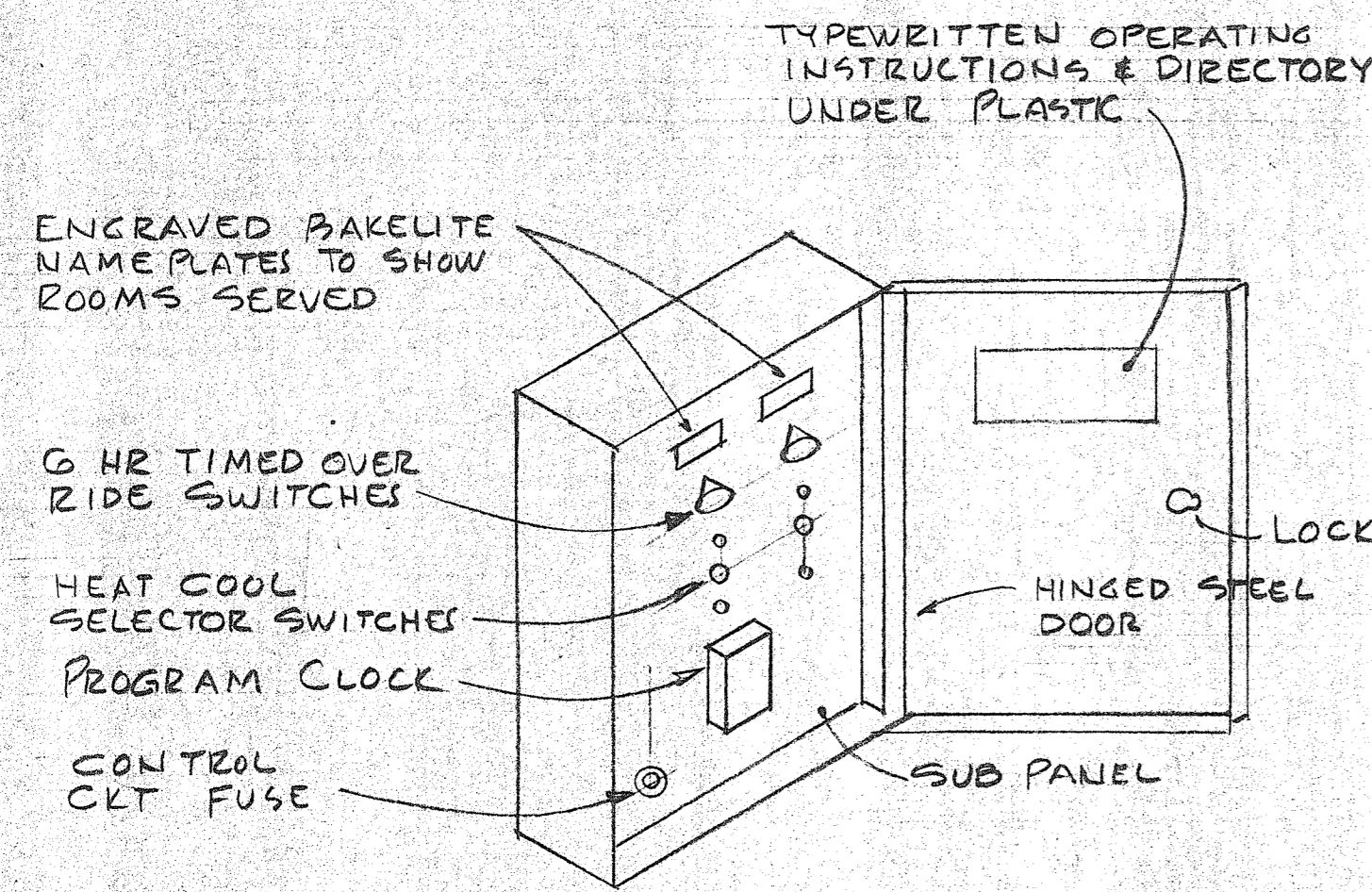
HEATING NOTES

- CAPACITY OF EXISTING BOILERS IS 3,980 MBH EXISTING BLDG. LOAD EQUALS - 3,058 " LOAD ADDED IN ADDITIONS "A" & "B" = 280 "
- CIRCULATOR "A" IS 1/2HP 120V 14 1/2 GPM AT 32' TDH. CONTRACTOR SHALL REPLACE WITH NEW CIRCULATOR P+G MODEL PD 385 WITH 1HP 120V MOTOR 25 GPM AT 32' TDH. REWIRE TO 30A 1P 120V CKT BRK WITH #10 THWN COPPER USING EXISTING CONTROLS
- CIRCULATOR "B" IS 1/3HP 120V 16 GPM AT 26' TDH - CONTRACTOR SHALL REPLACE WITH NEW CIRCULATOR P+G MODEL PD 375 WITH 3/4HP 120V MOTOR 30 GPM AT 27 FT TDH. REWIRE TO EXISTING 20A 1P 120V CKT BRK WITH #12-1/2" USING EXISTING CONTROLS
- CIRCUIT A - 1/2" PIPES 25 GPM > 600 MIL INCHES / FT. P.E.S. DROP
- CIRCUIT B - 2" " 30 GPM > 300 MIL INCH / FT P.D.
- HEATING CONTRACTOR PROVIDE ADDITIONAL SQUARE HEAD BALANCING COCKS IN EXISTING HEATING SUPPLY AND/OR RETURN LINES TO INSURE ADEQUATE HOT WATER FLOW TO ALL NEW AND EXISTING HEATING EQUIPMENT.



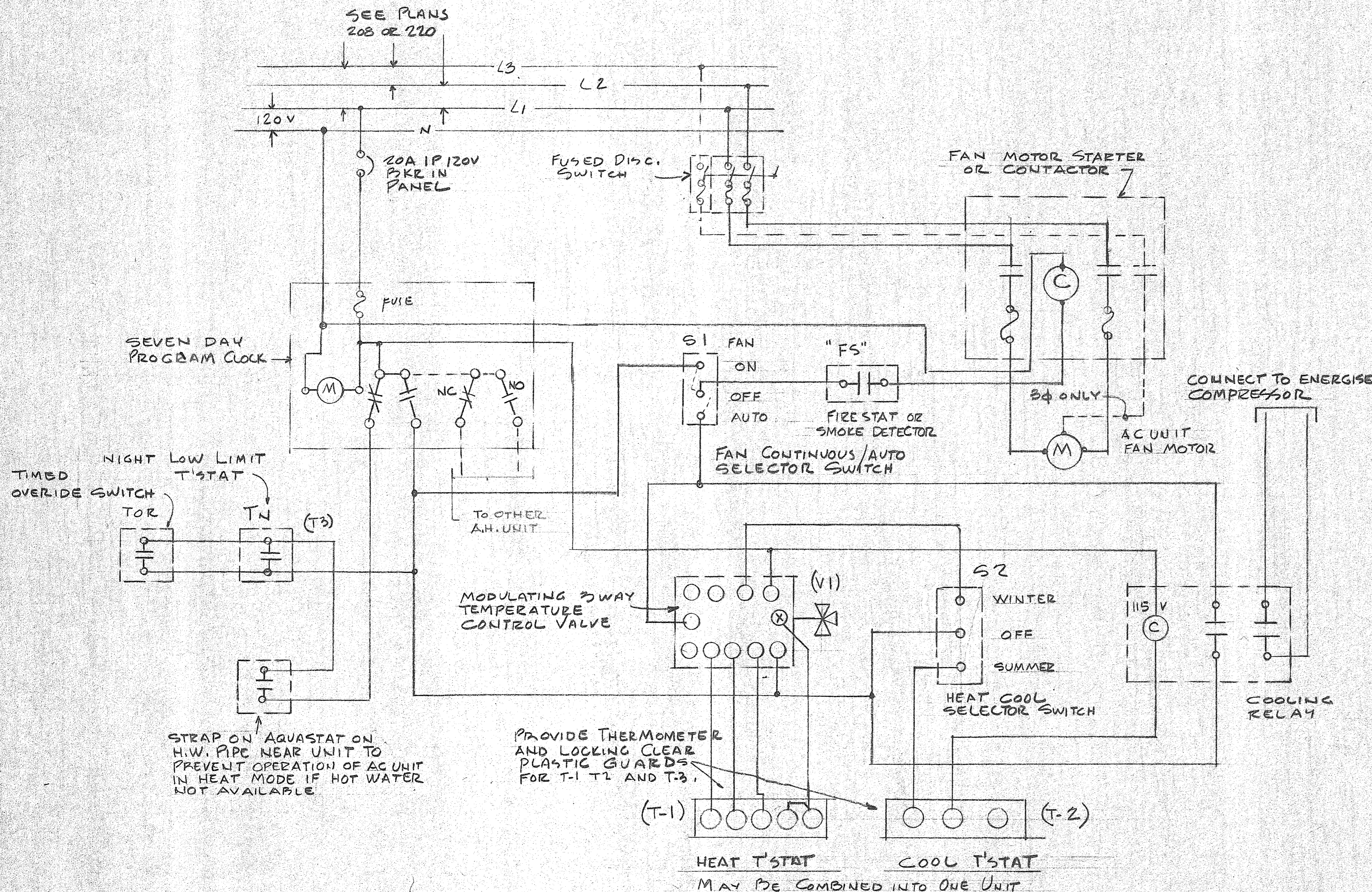
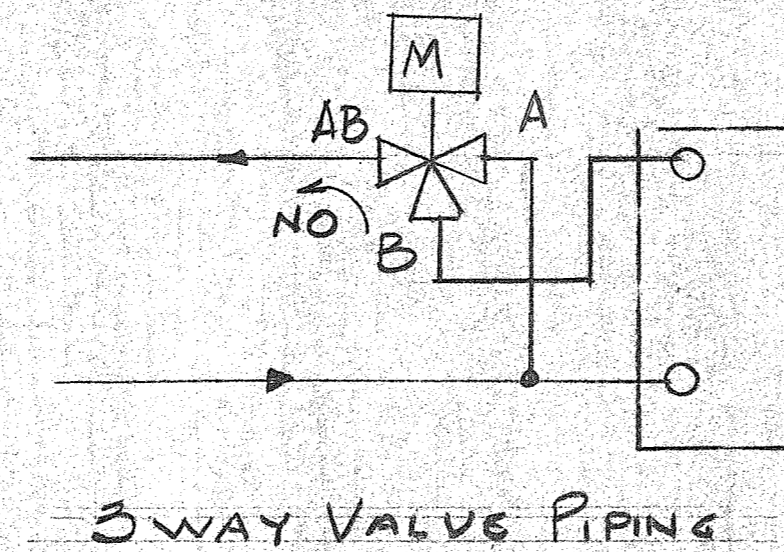
H.V.A.C.

WILLIAM B. LELAND
 PROFESSIONAL ENGINEER
 CHARLESTON, S.C.
 JOB NO: 1723B
 DATE: SEP 28
 SHT NO: M 2 OF 3



CONTROL PANEL DETAIL
N.T.S.

ONE PANEL REQUIRED FOR EACH BLDG. ADDITION



TEMPERATURE AND PROGRAM CONTROL - TYPICAL WIRING DIAGRAM

- SEQUENCE OF OPERATION**
1. TIME CLOCK "TC" : WITH FAN SW. (S1) IN THE AUTO POSITION, SYSTEM SELECTOR SWITCH (S2) IN SUMMER POSITION AND CLOCK CONTACTS IN DAY CYCLE.
 2. ON A CALL FOR COOLING BY THERMOSTAT T-2, RELAY R2 IS ENERGIZED TO START CONDENSING UNIT AND A C UNIT FAN.
 3. WITH SYSTEM SELECTOR SWITCH (S2) IN WINTER POSITION AND STRAP ON AQUASTAT CONTACTS CLOSED TO PROVE HOT WATER IS AVAILABLE, FAN SWITCH (S1) IN AUTO POSITION, THERMOSTAT (T1) MODULATES 3WAY VALVE (V1) TO MAINTAIN DESIRED SPACE TEMPERATURE. AS SOON AS VALVE OPENS AUXILIARY SWITCH ENERGIZES AC UNIT FAN.
 4. FAN SWITCH S1 IN ON POSITION OPERATES FAN CONTINUOUSLY DURING DAY CYCLE.
 5. WITH TIME CLOCK (TC) IN UNOCCUPIED HOUR POSITION, NIGHT LOW LIMIT THERMOSTAT (T3) WILL ACTIVATE HEATING SYSTEM PROVIDING HOT WATER IS AVAILABLE AT AC UNITS 3WAY VALVE. SET T-3 FOR 49°F OR AS DIRECTED.
 6. SYSTEM CAN BE MANUALLY OPERATED BY INTERVAL TIMER (TOR) FOR A VARIABLE PERIOD UP TO 6 HOURS.
 7. FIRESTAT OR SMOKE DETECTOR IN RETURN AIR DUCT WILL SHUT DOWN FAN MOTOR IF UNUSUAL CONDITIONS EXIST.

NORTHWOODS PARK SCHOOL
H.V.A.C.
TEMPERATURE CONTROLS

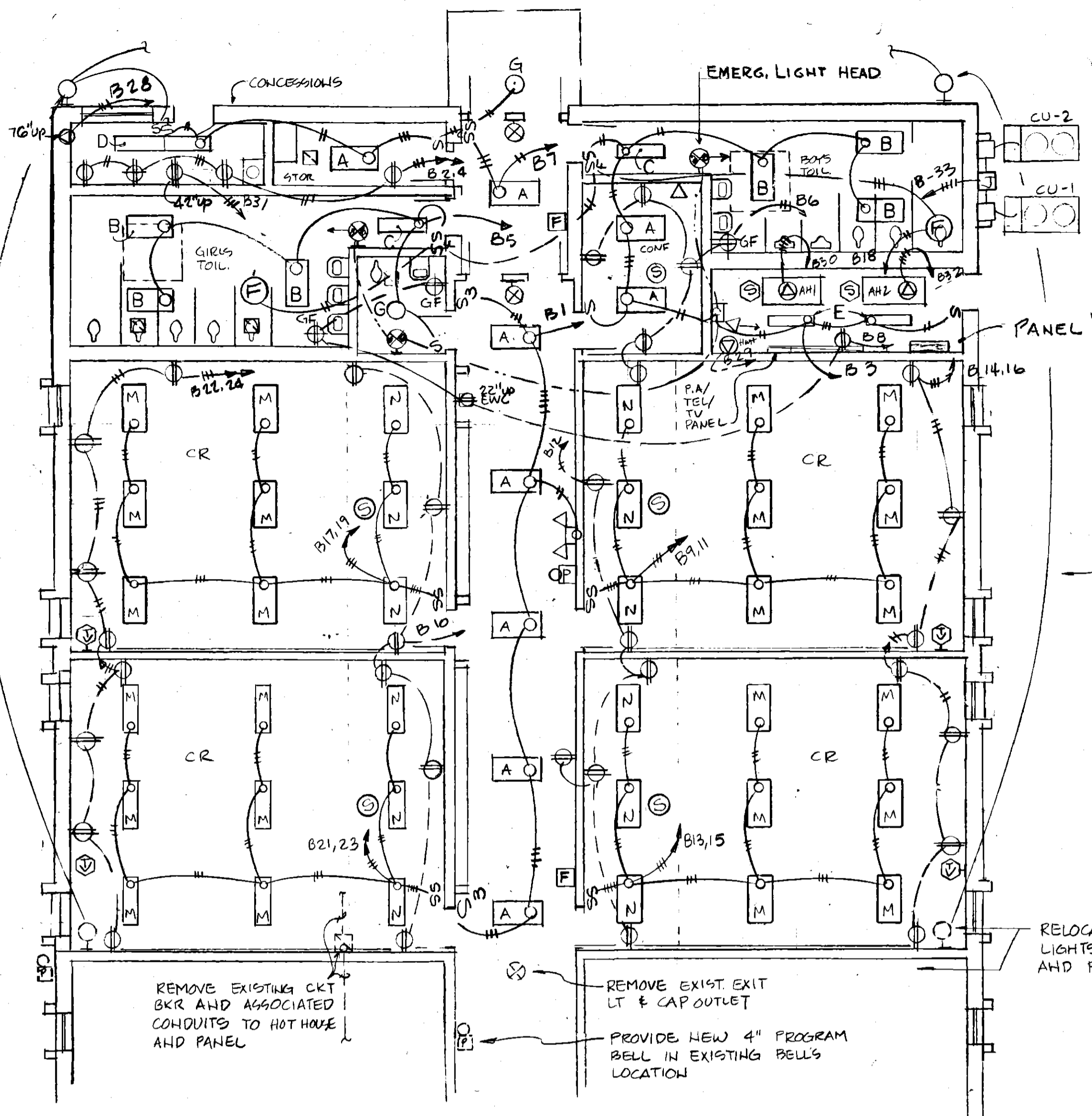
	WILLIAM B. LELAND ENGINEER CHARLESTON, S.C.
	JOB NO: 1728-B
	DATE: SEP 88
	SHT NO. M3 OF 3

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CLASSROOM BUILDING ADDITIONS
Jacksonville, North Carolina

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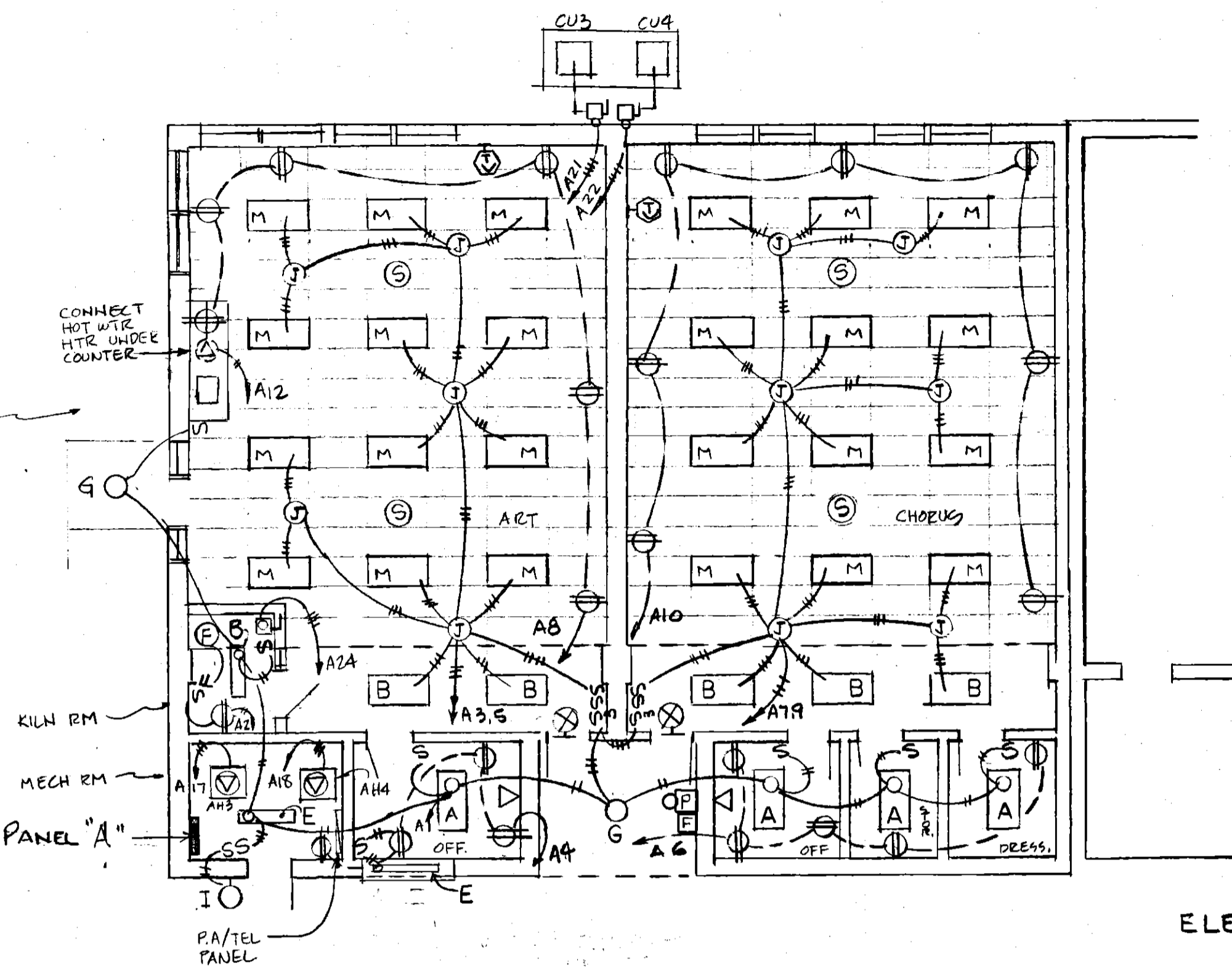
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CLASSROOM BUILDING ADDITIONS
Jacksonville, North Carolina



NOTE: WHERE 2 SWITCHES ARE SHOWN IN CLASSROOMS, ART & CHORUS, WIRE FOR 2 LEVELS OF LIGHT WITH 2 CENTER TUBES ON ONE SWITCH & 2 OUTER TUBES ON OTHER SWITCH.

RELOCATE 2 EXISTING DOUBLE FLOOD LIGHTS TO NEW END OF BLDG - RELAMP AND PROVIDE NEW SWITCH IN CONCESSIONS.



ELECTRICAL LOADS

EXIST BLDGS -CONNECTED LOAD	365KW
NEW BLDGS	126
TOTAL LOAD	491KW
AMPS CONNECTED LOAD	1378
SERVICE CAPY	1600 AMPS

B FLOOR PLAN NEW ADDITION
SCALE 1/8"=1'-0"

A FLOOR PLAN NEW ADDITION
SCALE 1/8"=1'-0"

		NEUTRAL BAR			
		1	2		
1.2	LIGHTS			FAN & RCPT - KILN RM	1.0
1.4	"	3	4	RCPT & LIGHT	1.0
1.4	"	5	6	"	1.0
1.5	"	7	8	"	1.2
1.5	"	9	10	"	1.4
1.0	SPARE	11	12	HOT WATER HTR	1.0
1.0	"	13	14	SPARE	1.0
1.0	"	15	16	"	1.0
1.5	AIR HANDLER (1 HP) 3#12-3/4" (AH-3)	20A	18	AIR HANDLER (1 HP) 3#12-3/4" (AH-4)	1.5
2.0	SPARE	30A	20	SPACE ONLY	2.0
6.7	5 TON A/C OUTSIDE UNIT 4#8-1" (CU-3)	40A	21	5 TON A/C OUTSIDE UNIT 4#8-1" (CU-4)	6.7
60.0	PANEL "B" 4#1/0-2" C	150A	23	KILN VIA FDS 4#9-1 1/4" C	14.0
9.0	SPARE 3P	40A	25	SPACE ONLY	5.0
89.2					37.8
97.8					45.8
127.0	CONN. LD				19.6
90.0	DEMAND LD				65.4
					40.0

350 AMP, 304W, (20/208V) MAIN CKT BREAKER

PANEL "A"

		NEUTRAL BAR			
		1	2		
1.0	COOR. LIGHTS			RCPT - CONCESSION	1.0
1.0	BATH LIGHTS	3	4	"	1.0
1.0	LIGHTS	5	6	" - CONF	1.2
1.2	LIGHTS	7	8	" - EWC, ETC	.8
1.4	CR LIGHTS	9	10	" - CR	1.2
1.0	"	11	12	" - CR	1.2
1.0	"	13	14	" - CR	.8
1.0	"	15	16	" - CR	.6
1.5	"	17	18	TOILET FANS (2)	1.0
1.0	"	19	20	SPARE	1.0
2.0	"	21	22	RCPT - CR	.8
1.0	"	23	24	RCPT - CR	.8
1.0	SPARE	25	26	SPARE	1.0
1.0	SPARE	27		ELEC. HEATER (3KW) 3#10-3/4" C	3.0
4.5	HOT WATER HEATER 3#10-3/4" C	30A	28	AIR HANDLER #1 (1 1/2 HP) 4#10-3/4" C	2.1
4.0	208V RCPT-CONCESSION 3#10-3/4" C	30A	30	AIR HANDLER #2 (1 1/2 HP) 4#10-3/4" C	2.1
5.0	COND. UNIT #1 & 2 4#3-1 1/4" C	100A	32		2.1
					19.6
					45.8
					19.6
					65.4
					40.0

150 AMP, 304W, (20/208V) MAIN LUGS ONLY

PANEL "B"

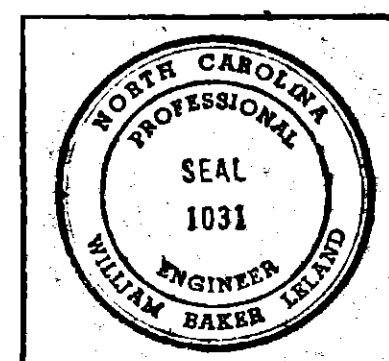
NOTE: ALL CIRCUITS ARE 20A, 1P, 120V CIRCUIT BREAKERS, #12 WIRE - 1/2" AND 3/4" CONDUITS, UNLESS OTHERWISE NOTED

LIGHTING FIXTURE SCHEDULE			
TYPE	LAMP	BRIEF DESCRIPTION	MFGR & CAT #
A	4-34 WATT CW RS	2' x 4' FLUOR. TROFFER FOR LAY-IN TILE CEILING, .125" ACRYLIC DIFFUSER, 4 1/2" MIN DEPTH	LITHONIA 2SPG-440
B	4-34 WATT CW RS	SAME AS TYPE "A" BUT FOR GYP BD CEILING	LITHONIA 2SPF-440
C	2-34 WATT CW RS	SAME AS TYPE "B" BUT 1' x 4'	LITHONIA SPF-240
D	4-34 WATT CW RS	8 FT SURFACE WRAPAROUND FLUOR., ACRYLIC DIFFUSER	LITHONIA 8T2SB240A
E	2-34 WATT CW RS	4 FT OPEN FLUOR. STRIP	LITHONIA C240
G	2-15W	SURFACE INCANDESCENT SQUARE LIGHT, LEXAN	HARRIS MODEL 1200
H	-	NOT USED	-
I	1-60 W	WALL BRACKET INCANDESCENT, VANDALPROOF LENS	HARRIS MODEL 300
K	2-34 WATT CW RS	SAME AS TYPE "A" BUT 1' x 4'	LITHONIA SPG240
L	2-60W	WALL BRACKET INCANDESCENT, FOR TOILETS	LITHONIA GOTHAM WUP PC
M	4-34W CW RS	PENDANT MOUNT LOUVERED COMMERCIAL FLUOR, PLASTIC SIDES, 4' L x 17" W x 5 1/4" H, MOUNT 9' AFF	LITHONIA HL 440 P WITH SQ HARBEE
N	4-34W CW RS	SAME AS TYPE "M" BUT SURFACE MOUNTED ON LAY-IN TILE CEILING	LITHONIA HL 440 P

- ⊕ EMERGENCY LIGHT w/ HEADS AS INDICATED LITHONIA ELU-2P
- ⊙ REMOTE HEAD LITHONIA ELA H080G P36, 6WATT
- ⊗ EXIT SIGN, BATTERY BACKUP, LITHONIA XSIREL

SEE TREXLER SCHOOL E-1 FOR THE ELECTRICAL LEGEND

ELECTRICAL



WILLIAM B. LELAND
ENGINEER
CHARLESTON, S.C.
JOB NO: 1728-B
DATE: SEP 88
SHT NO: E-3 OF 4

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