

**MONTGOMERY COLLEGE - OFFICE OF PROCUREMENT  
HEALTH SCIENCES CENTER NURSING SKILLS CLASSROOM  
TAKOMA PARK/SILVER SPRING CAMPUS  
RFP NO.: 623-004  
RFP CLOSING DATE AND TIME: JANUARY 13, 2023 @ 2:00 PM**

**ADDENDUM #2  
Issued: January 5, 2023**

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**THE PURPOSE OF ADDENDUM IS TO MAKE CHANGES, AND PROVIDE ANSWERS TO THE REQUEST FOR CLARIFICATIONS TO THE RFP DOCUMENTS.**

**Please make changes to the RFP documents as follows:**

Item 2-1 Revise and reissue Price Proposal Form in its entirety to include \$5,000 allowance for sprinklers. See attached. Please use the revised form for price proposal submission. Failure to do so will deem a proposal non-responsive.

Item 2-2 Delete Part 10.3.B of Section 002113-7 in its entirety, and replace with the following:

B. Price Proposal (Part B):

Price Proposals from only those Offerors who are deemed qualified following the review of the Technical Proposals, will then be opened, and examined for responsiveness and responsibility by the College Procurement Office. To be considered for the award, Offeror must bid all line items in the Price Proposal Form and fill out all blanks. Failure to do so may deem an offer non-responsive.

Contractor's Price Proposal will be evaluated based on the following:

- a. Total Base Price Amount
- b. Submission of an acceptable Bid Bond (required if the total bid amount exceeds \$100,000)
- c. Bonding Company Letter Guaranteeing the Required 100% Performance, Labor and Material Payment Bonds

Item 2-3 Question: Drawing M.001, Note 11: Please review and advise if this note is applicable to this project. Due to the limited scope of work related to the HVAC work, we do not believe that this note may be applicable.

"11. PRIOR TO THE BALANCING OF SYSTEMS BY THE AABC CERTIFIED BALANCING CONTRACTOR, ALL HIGH PRESSURE AND LOW PRESSURE SYSTEMS SHALL BE TESTED BY THE MECHANICAL CONTRACTOR FOR DUCT LEAKAGE. DUCT LEAKAGE SHALL NOT EXCEED 1% FOR A DURATION OF TEN (10) MINUTES. SEE SPECIFICATIONS FOR ADDITIONAL TESTING CRITERIA. INSULATION MATERIALS SHALL NOT BE APPLIED UNTIL SYSTEMS HAVE BEEN WITNESSED, DOCUMENTED AND SUBMITTED TO MEET THE ABOVE TESTING REQUIREMENTS. REFER SPECIFICATIONS FOR SYSTEMS INDICATED AS LOW PRESSURE OR HIGH PRESSURE. THE BALANCE CONTRACTOR SHALL WITNESS AND CERTIFY ALL DUCT PRESSURE TESTS"

Answer: Testing of existing ductwork is not required. Please delete Note 11.

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Item 2-4 Question: Drawing M.001, Note 12: Please review and advise if this note is applicable to this project. Due to the limited scope of work related to the HVAC work, we do not believe that this note may be applicable.

“12. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A TESTING AGENCY TO PLAN AND IMPLEMENT AN INDOOR AIR QUALITY CONSTRUCTION MANAGEMENT PLAN PER THE REQUIREMENTS OF THE INTERNATIONAL GREEN CONSTRUCTION CODE.”

Answer: Montgomery County has adopted 2018 IGCC. The Contractor shall have a plan in place to ensure that existing HVAC systems are protected from dust and particulates during the duration of construction. A testing agency is not required.

Item 2-5 Question: Drawing P.401 Submittal Review: Please confirm that submittal review time is to be 15 business days as indicated under Note 1.2A. We would like to recommend for an expedited review due to the provided schedule.

“A. A DETAILED SUBMITTAL REVIEW SCHEDULE INDICATING PRIORITY SUBMITTALS FOR CRITICAL PATH OR LONG LEAD SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER AND AGREED TO PRIOR TO THE START OF ANY SUBMITTAL REVIEWS. THE ENGINEER SHALL BE PROVIDED UP TO 15 DAYS IN THE CONSTRUCTION SCHEDULE TO PROVIDE THE REVIEW, PROCESSING, AND RETURN ANY SUBMITTALS OR RESUBMITTALS. ADDITIONAL REVIEW/PROCESSING TIME MAY BE NEEDED FOR CONCURRENT REVIEW OF MULTIPLE SUBMITTALS IF MORE THAN FOUR (4) ARE RECEIVED ON THE SAME DAY”

Answer: Refer to Division 1 Specifications on Sheet AR.100 (specifically Section 01330 - Submittal Procedures) for requirements. Please delete Section 1.2 on Sheet P.401.

Item 2-6 Question: Drawing P.401 Submittal Review Charge by the Engineer: Please confirm that all materials and equipment are to be provided per Basis of Design and there should be no deviation. Note 1.2\_F\_2 indicates that Engineer will charge the General Contractor for the review of submittals if material provided is not basis of design.

“F. THE ENGINEER WILL PROVIDE A MAXIMUM OF TWO (2) SUBMITTAL REVIEWS PER EQUIPMENT SUBMITTAL; THE INITIAL REVIEW PLUS ONE (1) RE-SUBMITTAL. ALLOW UP TO 15 DAYS IN THE CONSTRUCTION SCHEDULE FOR REVIEW. SHOULD THE RE-SUBMITTAL BE RETURNED “NOT ACCEPTABLE” OR “REVISE AND RESUBMIT”, THE CONTRACTOR SHALL CHOOSE ONE OF THE FOLLOWING COURSES OF ACTION:

1. PROVIDE THE EXACT MANUFACTURER AND MODEL INDICATED IN THE CONTRACT DOCUMENTS AS THE BASIS OF DESIGN, OR
2. REIMBURSE THE ENGINEER FOR ALL ADDITIONAL REVIEW TIME REQUIRED TO ACHIEVE A SUBMITTAL REVIEW FROM THE ENGINEER OF “NO EXCEPTIONS TAKEN.”

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SHOULD THE CONTRACTOR CHOOSE OPTION 2 ABOVE, THE ENGINEER SHALL BE REIMBURSED AT AN HOURLY RATE OF \$175 PER HOUR WITH PAYMENT DUE PRIOR TO THE RETURN OF THE FINAL SUBMITTAL. IN ADDITION, THE CONTRACTOR SHALL ACCEPT COMPLETE RESPONSIBILITY FOR ALL DELAYS RESULTING FROM THE SUBMITTAL REVIEW PROCESS EXTENDING BEYOND TWO (2) REVIEWS PER EQUIPMENT SUBMITTAL.”

Answer: Refer to Division 1 Specifications on Sheet AR.100 (specifically, 012500 Substitution Procedures) for requirements. Please delete Section 1.2 on Sheet P.401.

Item 2-7 Question: Drawing P.401 BIM Requirement: Note 1.6 requires for the General Contractor to provide BIM LOD 400. Please review and advise if this note is applicable to this project. Due to the limited MEP scope of work, this note may not be applicable.

“1.6 CONTRACTOR'S INSTALLATION DRAWINGS

A. PRIOR TO FABRICATION AND INSTALLATION, SUBMIT SHOP DRAWINGS (MIN. SCALE - 1/4" = 1' - 0") ILLUSTRATING ALL MECHANICAL, ELECTRICAL AND PLUMBING (MEP) SYSTEM ELEMENTS (INCLUDING BUT NOT LIMITED TO: DUCTWORK, HVAC PIPING, PLUMBING PIPING, INSULATION, LIGHTING FIXTURES, CABLE TRAY, CONDUIT, EXPANSION LOOPS, SUPPORTS, ALIGNMENT GUIDES, FIRE PROTECTION, ETC.) COORDINATED WITH EACH OTHER AS WELL AS THE ARCHITECTURAL AND STRUCTURAL BUILDING ELEMENTS. INSTALLATION DRAWINGS SHALL BE BASED UPON PROJECT SPECIFIC, APPROVED, PRODUCT INFORMATION FOR EACH OF THE MEP ELEMENTS LISTED ABOVE (AS WELL AS ARCHITECTURAL, STRUCTURAL, ETC. SYSTEMS), AND SHALL BE PREPARED AT A MINIMUM BIM LOD 400 (BUILDING INFORMATION MODELING LEVEL OF DEVELOPMENT 400) LEVEL OF DETAIL. INSTALLATION DRAWINGS SHALL BE REVIEWED BY OWNER'S REPRESENTATIVE PRIOR TO FABRICATION AND INSTALLATION OF ANY NEW WORK AND PRIOR TO THE ORDERING OF ANY MECHANICAL EQUIPMENT.”

Answer: BIM modeling is not a requirement. Delete Note 1.6. Careful coordination of new plumbing piping will be required vs. existing conditions. Once Contractor has exposed above-ceiling existing conditions in the affected locations, schedule an on-site meeting with the Owner and Design Team to discuss proposed routing of piping. Coordinate efforts to minimize the number of on-site review meetings required. Provide follow-up shop drawing submittal to document the result of the discussions.

Item 2-8 Question: Demolition: Please review drawing AD.101 and advise if Notes 13 and 16 are applicable to this project.

Answer: Note 13 is correct and pertains to A5/AD.102. Please disregard Note 16, this referred to scope on AD.103 that has since been removed from the project.

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**The following items offer clarification that do not change the requirements of the RFP documents.**

Item 2-9 Question: Drawing M.001, Note 21: Please review and advise if this note is applicable to this project. Due to the limited scope of work related to the HVAC work, we do not believe that this note may be applicable.

“21. CONTRACTOR SHALL TEST/BALANCE ALL AIR AND HYDRONIC EQUIPMENT AND DEVICES INDICATED ON THE DOCUMENTS. AIR SYSTEM EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: AIR VOLUME TERMINAL UNITS, AIR DEVICES, DUCT MOUNTED VOLUME DAMPERS, ETC. HYDRONIC EQUIPMENT AND DEVICES SHALL INCLUDE, BUT NOT BE LIMITED TO: COILS, BALANCING VALVES, ETC. BALANCE ALL EQUIPMENT AND DEVICES TO THE AIR/WATER FLOWS (CFM OR GPM) INDICATED ON THE DOCUMENTS (WHERE FLOWS ARE NOT CLEARLY INDICATED, CONTACT THE A/E FOR CLARIFICATION).”

Answer: Note 21 is applicable to the project. The Contractor is expected to pre-test all HVAC equipment and rebalance those systems after construction to ensure that the areas are returned to the owner as they were prior to construction.

Item 2-10 Question: Drawing P.001 Sprinkler General Notes: Please review and advise the College and Design Team anticipates any modifications to the existing sprinkler system. If so, please confirm that sprinkler system work is to be performed off-hours since the building will be occupied.

Answer: Contractor shall modify sprinkler heads in Classroom 301 if necessary to accommodate new partitions. Sprinklers are to be modified in accordance with NFPA 13. Coordinate any outages and/or special work hours requirements in advance with the Owner.

Item 2-11 Question: Commissioning: Please review and advise if Commissioning will be performed by Montgomery College or if Commissioning is applicable to this project. On recent completed projects at TPSS Campus, DPS required for Lighting to be commissioned as part of final inspections.

Answer: Lighting Commissioning is not required.

Item 2-12 Question: Building Permit: Please advise on the status of the Building Permit, please advise anticipated issuance date.

Answer: All AHJ reviews are complete, and Building Permit issuance is awaiting submittal of contractor information forms once a successful bidder has been identified.

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- Item 2-13 Question: Room 119 Nursing Classroom: Per Architectural and Plumbing drawing floor plans, a new sink is to be provided along the corridor wall. There is no indication of under-slab work for sanitary line connection nor the plumbing drawings indicate new sanitary and hot water for the sink. Please review and advise if removal of floor slab is required and provide sanitary piping and hot water piping on P.201 floor plan and P.301 riser diagram.
- Answer: The sink in Classroom 119 is a portable unit (with integral insta-hot water heater) that requires no connection to sanitary - it has a waste storage tank that must be periodically emptied by MC staff. Plumbing work is limited to a wall connection for domestic cold water per the Plumbing drawings. See Electrical for power required for the water heater.
- Item 2-14 Question: DPS Inspections: At the pre-bid meeting we discussed the potential challenges with Plumbing Inspections at above ceilings. Please advise if MC has reviewed with DPS if inspections can be performed off-hours to avoid disruption of classes.
- Answer: A meeting with DPS to discuss inspections can be arranged after bid award.
- Item 2-15 Question: Demolition Notes: Please review demolition notes and confirm that all notes are applicable to this project.
- Answer: All demolition notes on the AD series (except for Note 16 per the response to Item 2-8 above), are applicable to the project. All demolition notes on the E- series drawings are applicable to the project except for Note 3, all existing ceiling mounted speakers are to remain, refer to the architectural RCP drawings.
- Item 2-16 Question: Bid Form: Please review spec sections and bid form and confirm that requested breakdown is in alignment with spec sections.
- Answer: Division 12 items (countertops) should be included in the Division 6 line item on the Bid Form. All IT/AV/Security scope should be included in the Division 26 line item along with Electrical.
- Item 2-17 Question: Please provide the deck height for Rooms 119, 224, 301, 309, and 421.
- Answer: Floor-to-floor heights for 119, 224, and 301 are 14'-8". Roof structure above 421 is sloped, and varies in height. A PDF copy of the original 2002 construction drawings is attached to this addendum for contractor's information.

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- Item 2-18 Question: Please clarify if the general contractor is to furnish and Install New Message Board in Room 301, or will this be carried by the AV/IT contractor?
- Answer: Message Board will be provided and installed by the Owner.
- Item 2-19 Question: Please clarify if the general contractor to furnish and install new wall mounted phones, or will this be by the AV/IT contractor.
- Answer: Wall-mounted phones will be provided and installed by the Owner.
- Item 2-20 Question: Please confirm that in the RFP Spec 002413-1 Section 1.2 there is not to be a section I as the required submissions jump from H to J and we want to ensure we will have all items that are required submitted.
- Answer: The omission of article "i" is intentional.
- Item 2-21 Question: Please confirm there are no hazardous materials that are to be abated for this project.
- Answer: Given the age of the existing building, no hazardous materials are expected to be present. If suspected hazardous materials are encountered during construction, notify Owner immediately for testing (and abatement, if required).
- Item 2-22 Question: Due to site constraints and the relative size of this project, will an office trailer be required by the general contractor per Section 3.10.4 "Temporary Facilities" Specification 007200-22.
- Answer: A jobsite trailer is not a project requirement.
- Item 2-23 Question: Please confirm that Materials Testing and Inspections are to be by the general contractor and paid for by the general contractor.
- Answer: Given the limited scope of the project, Materials Testing & Inspection are not anticipated. If necessary, these services would be provided by a third party engaged by the Owner.

All other specifications, terms and conditions remain unchanged.

**Sections or Portions Reissued in Entirety**  
Price Proposal Form (Revised on 1/5/2023)



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Drawings

NONE

Sketches

NONE

Items Issued for Informational Purposes

Original 2002 Building Construction Drawings.

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Patrick Johnson, MBA  
Director of Procurement

Please **sign** below to acknowledge receipt of this Addendum and return with the **Technical Proposal submission**.  
Failure to return this Acknowledgement of Addendum may deem a proposal nonresponsive.

**NOTE: ACKNOWLEDGEMENT OF RECEIPT OF RFP ADDENDA WILL NOT BE ACCEPTED BY FACSIMILE OR E-MAIL.**

---

Company Name

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Authorized Signature

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Date

---

Printed/Typed Signature

**PRICE PROPOSAL FORM (REVISED)**

**To:** Montgomery College

**Re:** RFP No.: 623-004  
Health Sciences Center Nursing Skills Classrooms  
Takoma Park/Silver Spring Campus

**Attn.:** Procurement Office  
Montgomery College  
9221 Corporate Boulevard  
Rockville, Maryland 20850

**From:** \_\_\_\_\_  
**(Provide Your Company's Name)**

**PART 1** - Contractor must submit **one (1) original plus one photocopy**, marked "Original " or "Copy" accordingly, of the Price Proposal Form and all attachments.

**PART 2** - Please read the questions, note what is requested, then provide appropriate responses. Failure to answer any of the applicable questions contained in this section will make the proposal non-responsive and be grounds for rejection of the entire proposal. **Conditional proposals will not be accepted.** In order to be considered for the award, Contractor must bid all items and fill out all the blanks. Failure to do so may deem a Contractor non-responsive.

**PART 3-** Contractor acknowledges receipt of the following Addenda:

Number \_\_\_\_\_ Date \_\_\_\_\_

Number \_\_\_\_\_ Date \_\_\_\_\_

Number \_\_\_\_\_ Date \_\_\_\_\_

Number \_\_\_\_\_ Date \_\_\_\_\_

Number \_\_\_\_\_ Date \_\_\_\_\_

Number \_\_\_\_\_ Date \_\_\_\_\_



**PART 4 - BASE PRICE TOTAL (State amounts in both words and numbers where indicated)**

Due to the different types of funding sources to be used for the project, Offeror is required to provide Base Price Total and the price breakdowns as follows:

- 4.1 General Conditions, Allowance No. 1, Insurance, Performance & Payment bond for the entire project.
- 4.2 The cost of hard construction and overhead & profit for Room 301 only (grant funded).
- 4.3 The cost of hard construction and overhead & profit for the rest of the scope of work.

The proposed **Total Base Price Amount (sum of the subtotal of Item 4.1, Item 4.2 and Item 4.3)** to complete the construction services for the **Health Sciences Center Nursing Skills Classrooms on the Takoma Park/Silver Spring Campus**, per terms, conditions, drawings and specifications, including all costs associated with the requirements specified in the RFP documents, and having examined both the site of the Work and all matters referred to in the RFP documents, is:

(In Words): \_\_\_\_\_ Dollars

(In Numbers): \$ \_\_\_\_\_

Part 4.1 Breakdown for General Conditions, Allowance No. 1, Insurance, Performance & Payment bond for the Entire project

Item #	Description	Dollar Amount (\$)
1	Division 01 General Conditions	
2	Allowance No. 1 (See PART 5.A)	
3	Insurance, Performance & Payment Bonds	
4	<b>Sub-total</b>	

Part 4.2 Breakdown Costs of Hard Construction and Overhead & Profit for Room 301 only

Item #	Description	Dollar Amount (\$)
2	Division 02 Existing Conditions	
3	Division 06 Wood and Plastics	
5	Division 08 Openings	
6	Division 09 Finishes	
7	Division 10 Specialties	
8	Division 11 Equipment	
9	Division 22 Plumbing	
10	Division 23 HVAC	
11	Division 26 Electrical	
12	Overhead & Profit	
13	<b>Sub-total</b>	

Part 4.3 Breakdown Costs of Hard Construction and Overhead & Profit for the Rest of the Scope of Work.

Item #	Description	Dollar Amount (\$)
2	Division 02 Existing Conditions	
3	Division 06 Wood and Plastics	
5	Division 08 Openings	
6	Division 09 Finishes	
7	Division 10 Specialties	
8	Division 11 Equipment	
9	Division 22 Plumbing	
10	Division 23 HVAC	
11	Division 26 Electrical	
12	Overhead & Profit	
13	<b>Sub-total</b>	

**PART 5 - SPECIAL PRICING REQUIREMENTS (State amounts in both words and numbers)**

**A. ALLOWANCES**

**Allowance No. 1: Sprinklers**

Include five thousand dollars (\$5,000.00) allowance for sprinkler work. To expend funds from this allowance, contractor must secure written authorization from Montgomery College. Any unused funds shall be returned to Montgomery College.

**B. UNIT PRICES – NOT USED**

**C. ALTERNATES**

**Add Alternate No. 1: Lounge 309**

Add Alternate: Labor and materials to renovate Lounge 309 as described on Sheet A.105

(In Words): \$ \_\_\_\_\_

(In Numbers): \$ \_\_\_\_\_

**D. SEPARATELY IDENTIFIED PRICES – NOT USED**

**PART 6- BID SURETY**

**A.** The bid surety attached in the sum of \_\_\_\_\_ Dollars (\$ \_\_\_\_\_) is to become the property of the College in the event the Contract and Bond are not executed with the time set forth, as liquidated damages for the delay and additional expense to the College caused thereby.

**B.** The undersigned includes the following submissions as part of the Price Proposal Form:  
 Bid Bond (AIA Document A310-2010, “Bid Bond”) if the total bid amount exceeding \$100,000.  
 Bonding Company Letter

**PART 7 – PRICE PROPOSAL SUBMITTAL ATTACHMENTS**

- A. AIA Document A310-2010, Bid Bond or Certified Check in an amount not less than 5% of the Base Bid Amount, including all add alternates, but excluding all deduct alternates, if applicable.
- B. Bonding Company Letter Guaranteeing the Required 100% Performance, Labor and Material Payment Bonds.

**PART 8** – The undersigned agrees, if selected as the Contractor, to execute a Contract in accordance with the terms of this Request for Proposals and the Contract Documents, within five (5) days, Saturdays, Sundays and legal holidays excluded, after presentation thereof by the College.

**PART 9** – Upon contract award, the undersigned agrees to hold prices firm for the duration of the overall contract term.

**PART 10** - The undersigned acknowledges the right of the College in its sole discretion to accept any Proposal or to reject any or all Proposals.

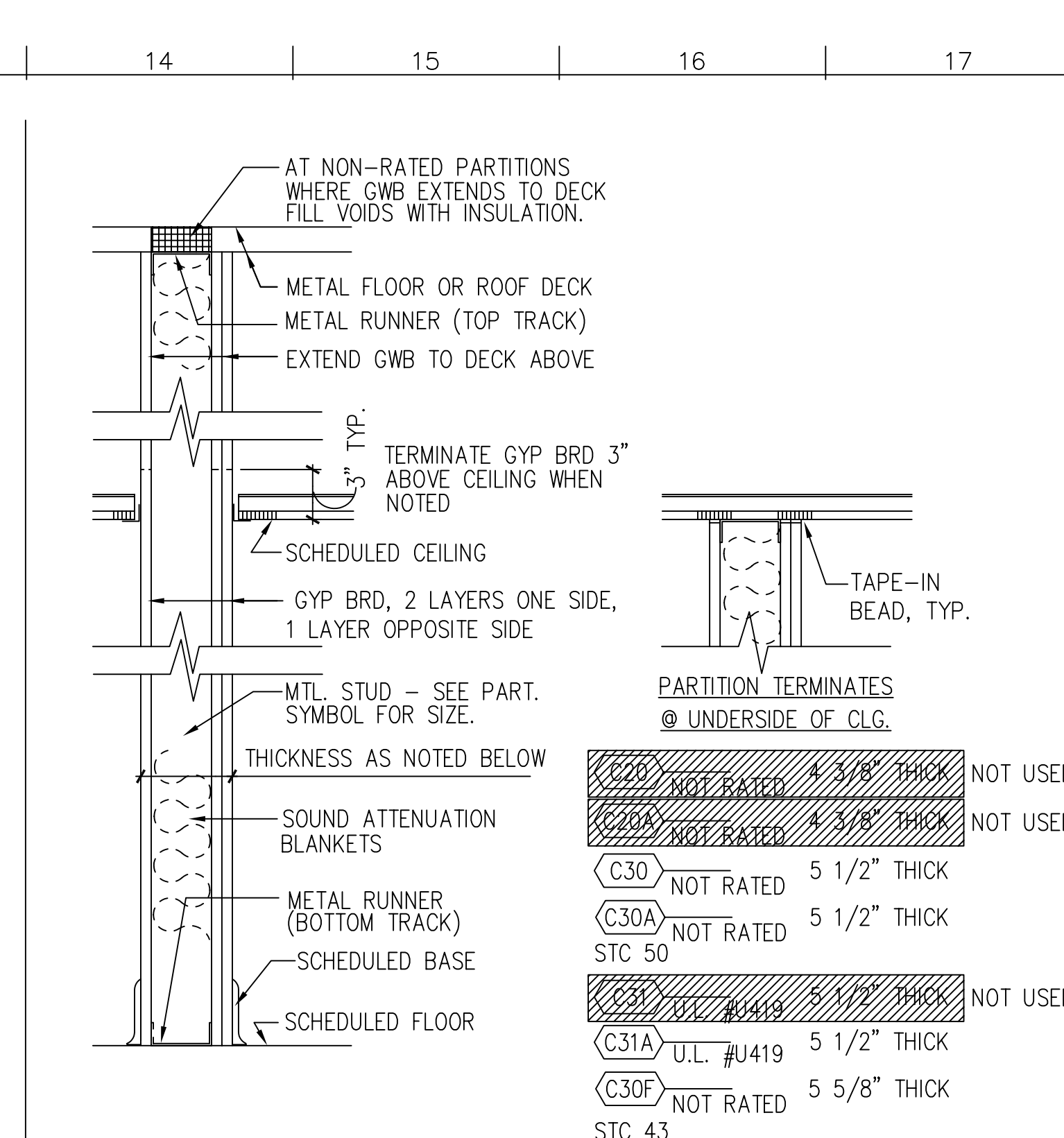
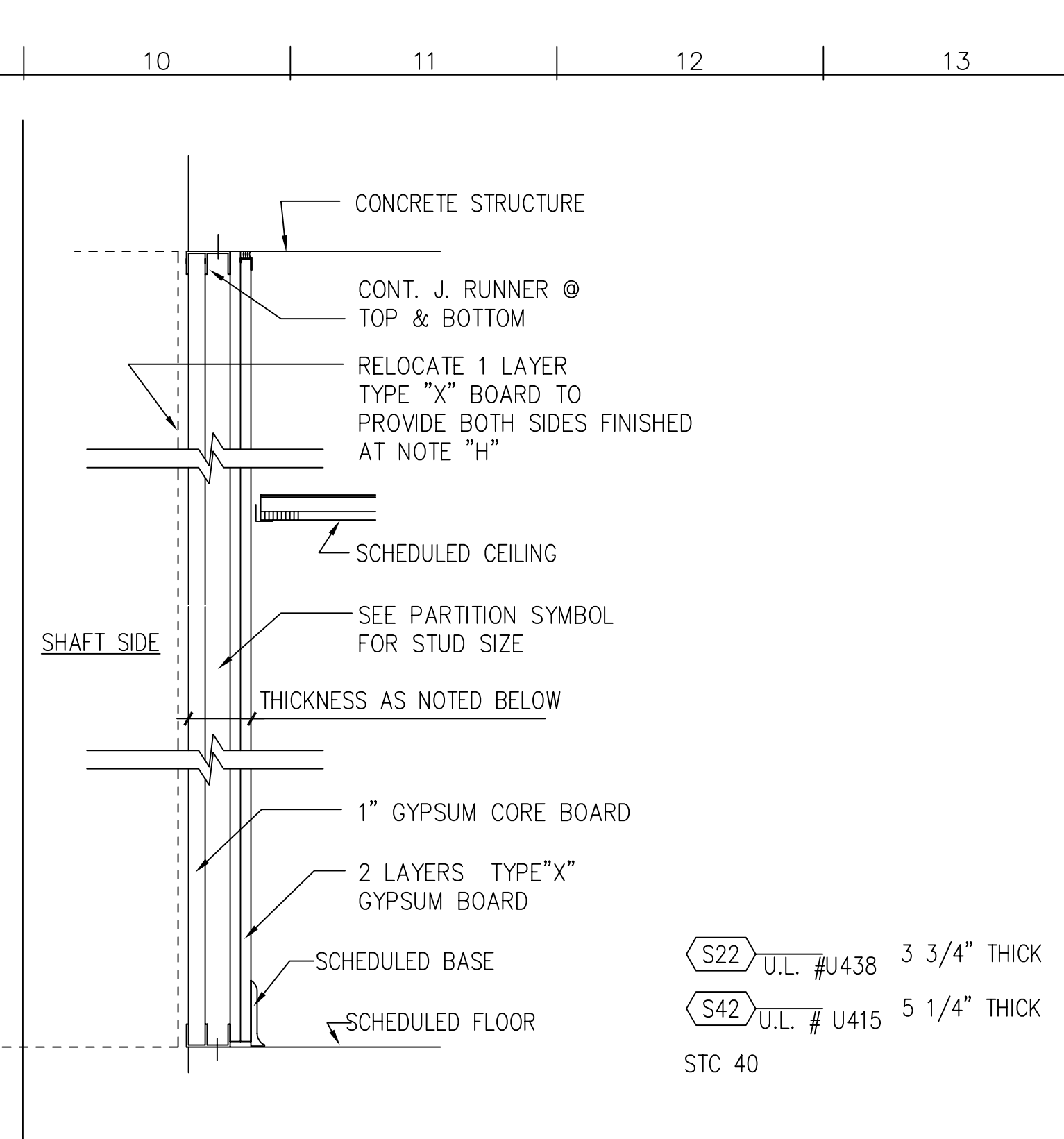
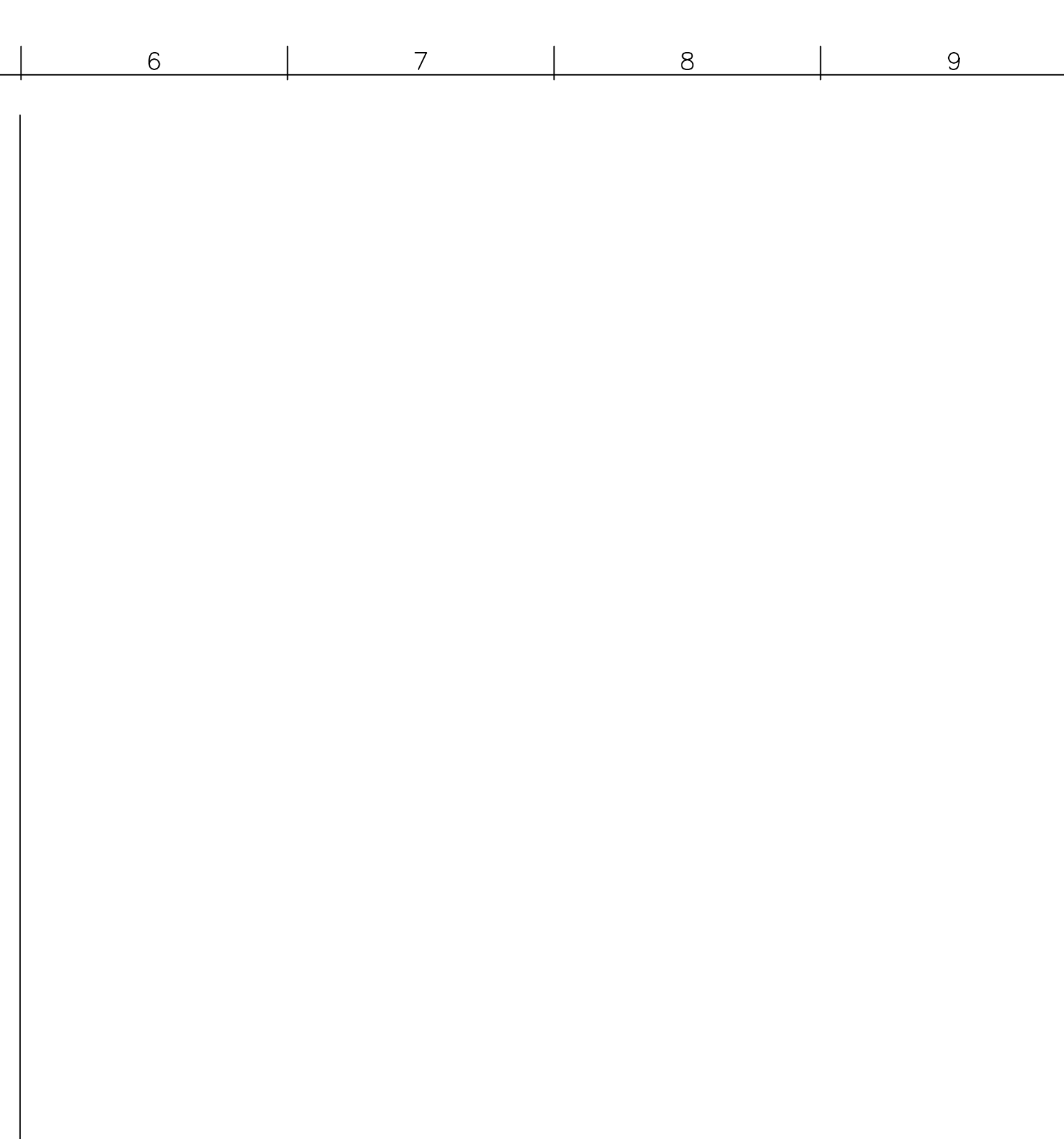
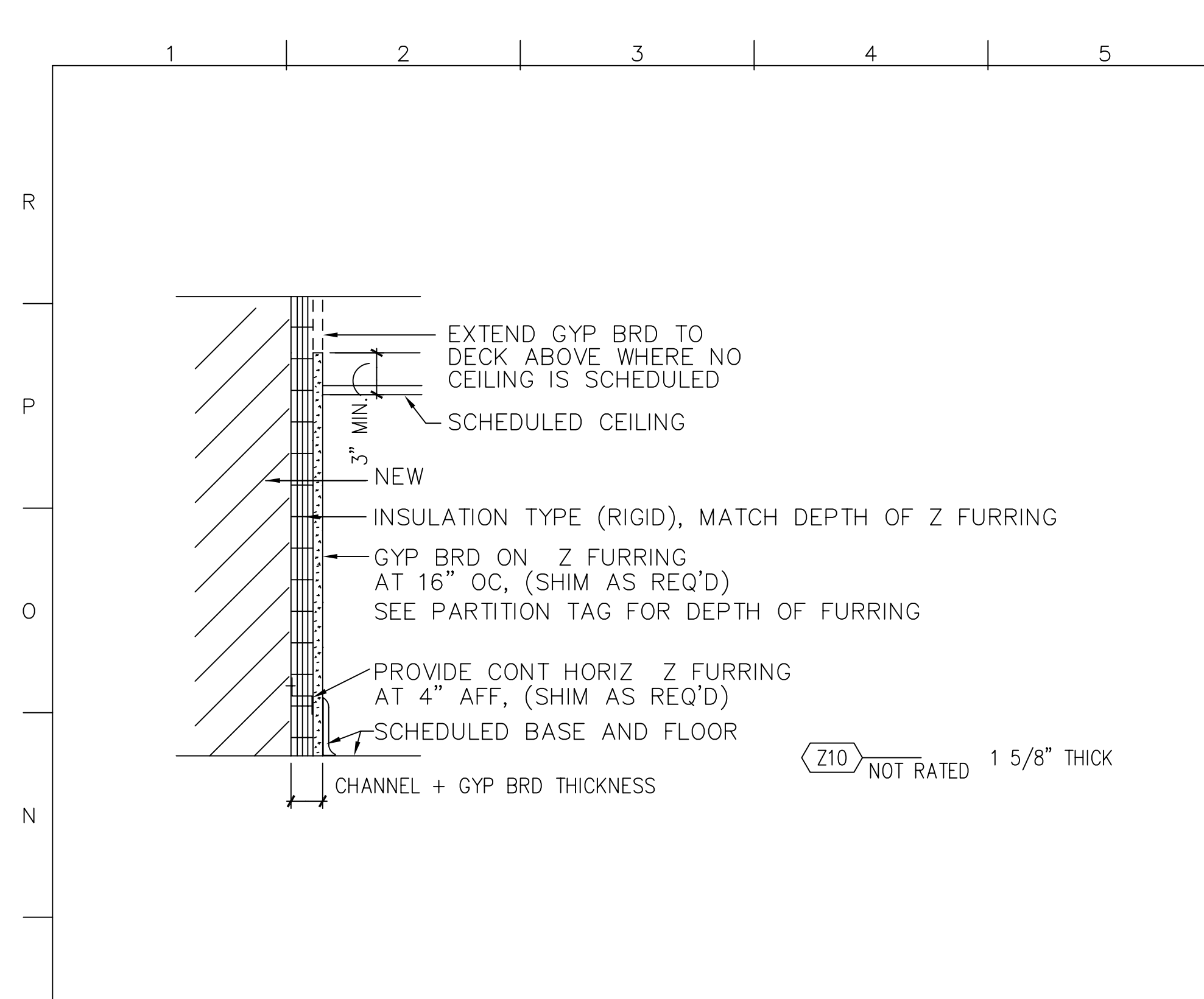
**PART 11** - The undersigned further certifies under the penalties of perjury that this proposal is in every respect bona-fide, fair and made without collusion or fraud with another person, joint venture, corporation, partnership or other business or legal entity.

**PART 12 - SIGNATURES:**

(Date)	(Company Name)
	(Address)
	(Telephone Number)
	(Facsimile Number)
<b>By:</b> <b>SEAL IF A CORPORATION</b>	Authorized Agent & Title (Print)
	Signature
	(F.E.I.N.)
	(Contractor License Number)
	(Contact E-mail Address)

**BE SURE TO SIGN YOUR BID**





**GENERAL NOTES**

**CMU PARTITIONS:**

- ALL CMU PARTITIONS TO EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE.
- FIRE RATING FOR CONCRETE MASONRY UNITS IS BASED ON THE EQUIVALENT THICKNESS METHOD PER BOCA AND NCMCA.
- ALL CMU TO BE LIGHTWEIGHT UNLESS NOTED OTHERWISE.

**GYPSUM BOARD PARTITIONS:**

- PROVIDE TYPE "X" GYPSUM BOARD AT ALL FIRE RATED GYPSUM BOARD AND METAL STUD PARTITIONS.
- SPACE STUDS AT 16"OC, MAX, UNLESS NOTED OTHERWISE.
- GYPSUM BOARD SHALL BE 5/8" THICK UNLESS NOTED OTHERWISE.
- METAL STUDS AND ALL LAYERS OF GYPSUM BOARD ARE TO EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK ABOVE UNLESS NOTED OTHERWISE.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD BEHIND ALL CERAMIC TILE WAINSCOTS AND FULL HEIGHT CERAMIC TILE WALLS. UNO
- PROVIDE SAG RESISTANT GYPSUM BOARD AT ALL INTERIOR CEILING APPLICATIONS.
- WHERE SEALANT IS NOTED: PROVIDE FIRERATED SEALANT EQUAL TO FIRE RATING OF PTN OR ACOUSTICAL SEALANT IF PTN IS NOTED.
- FACE LAYER TO BE MOISTURE RESISTANT GYP BRD AT ALL HOUSEKEEPING CLOSETS
- ALL FACE LAYERS, PERIMETER WALLS & COLUMNS SHALL BE ABUSE RESISTANT GYP BRD TO ABOVE CLG.
- ALL METAL STUDS AND RUNNERS SHALL BE 20 GA

**ADDITIONAL NOTES:**

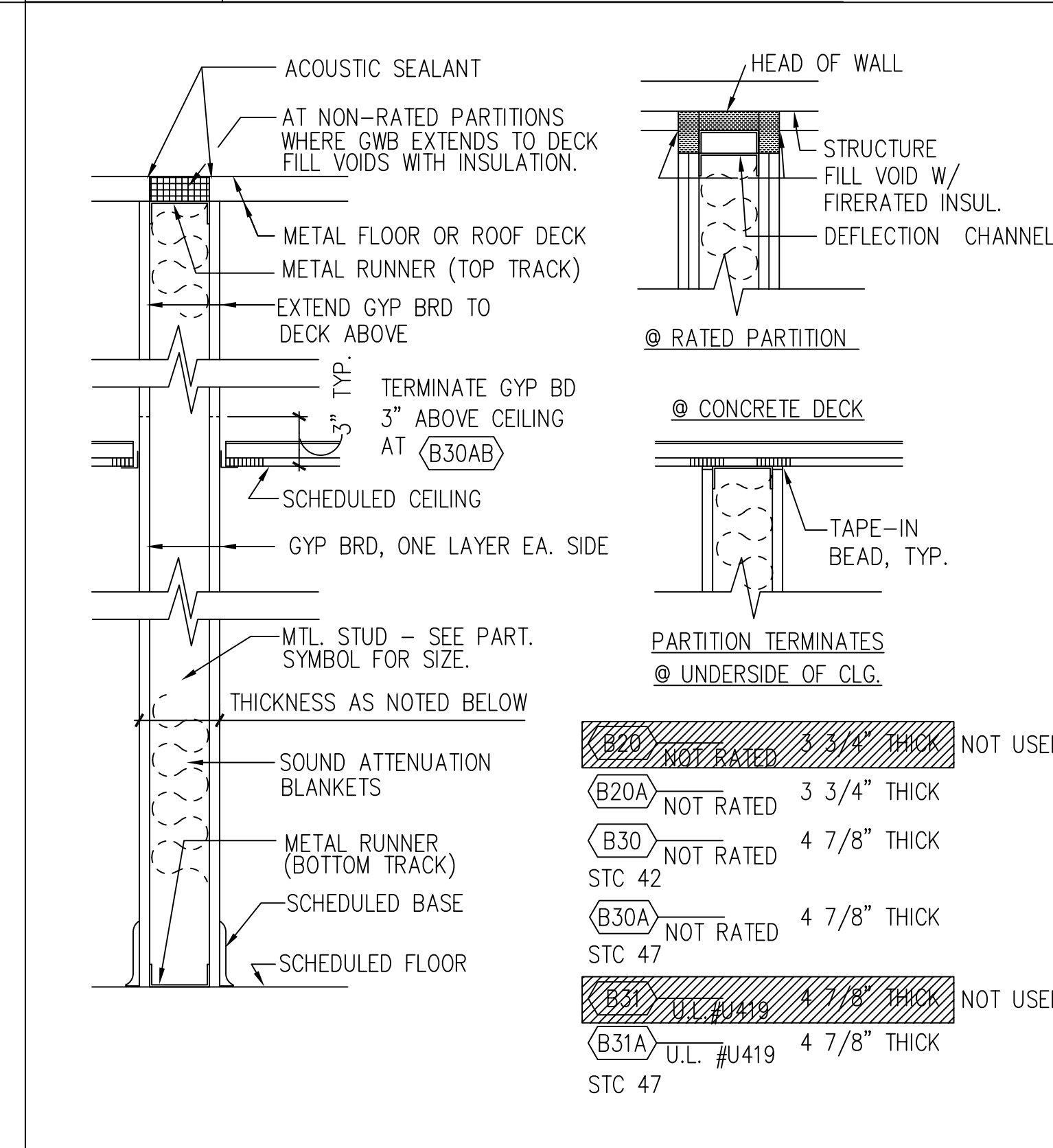
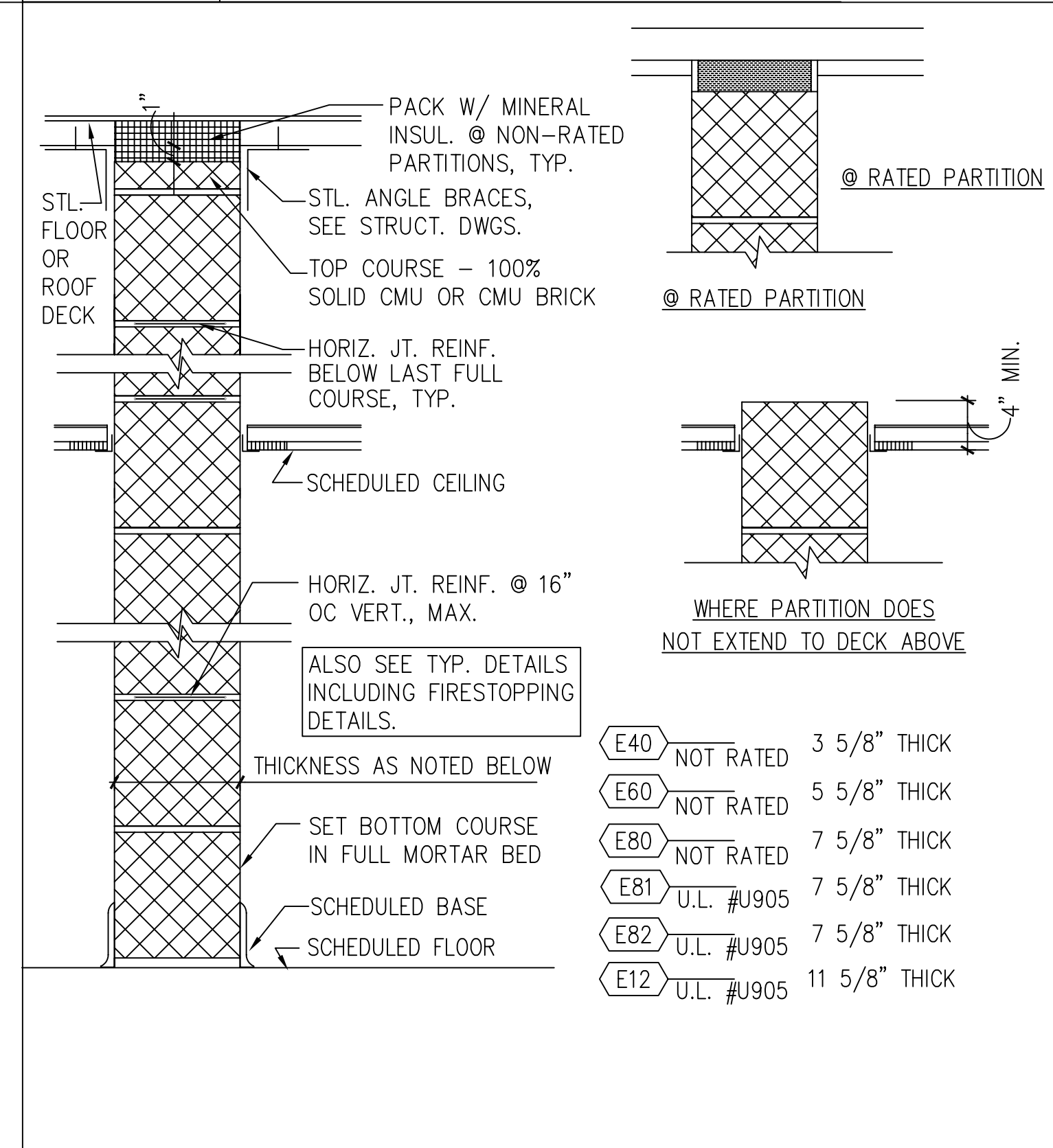
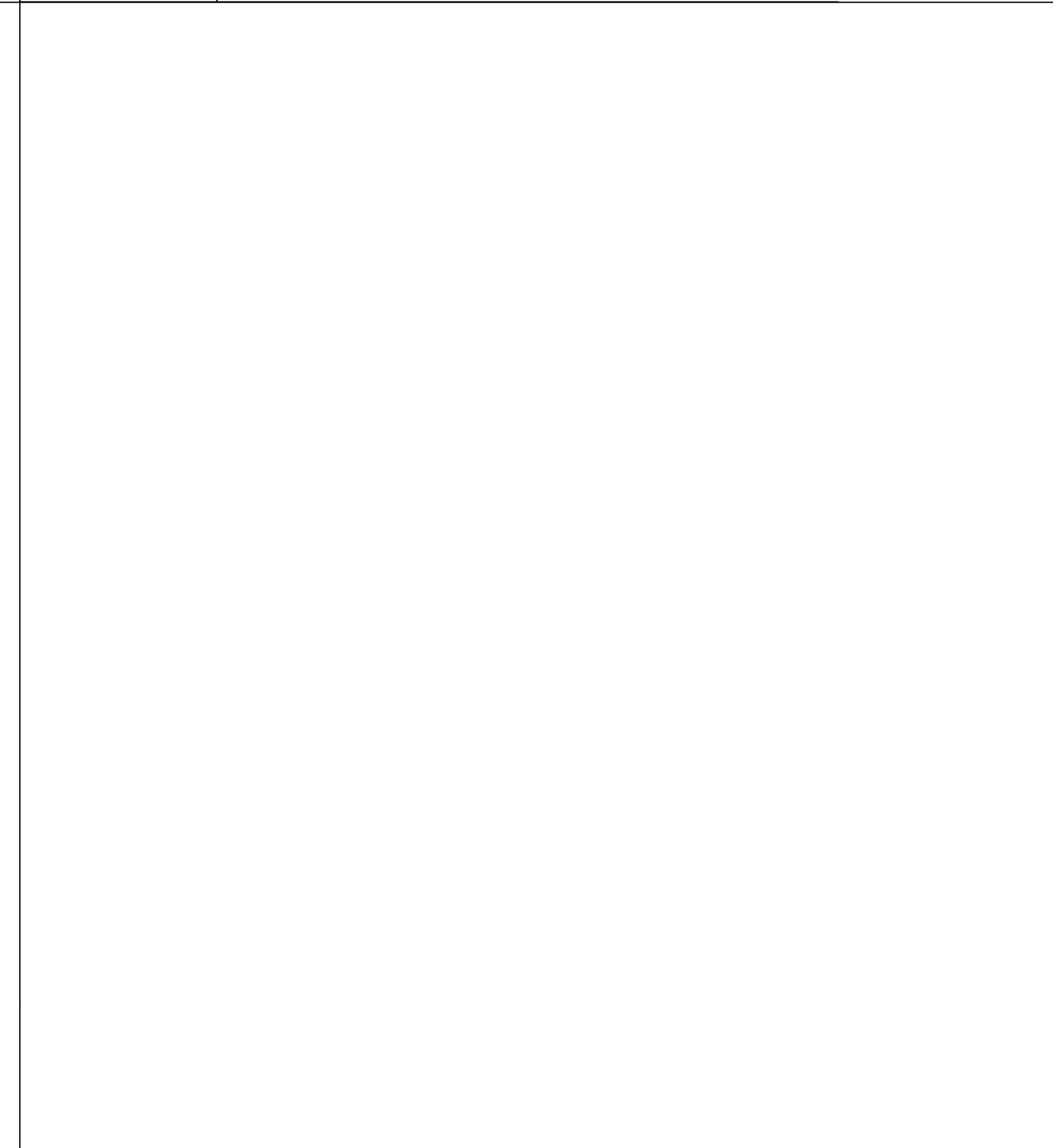
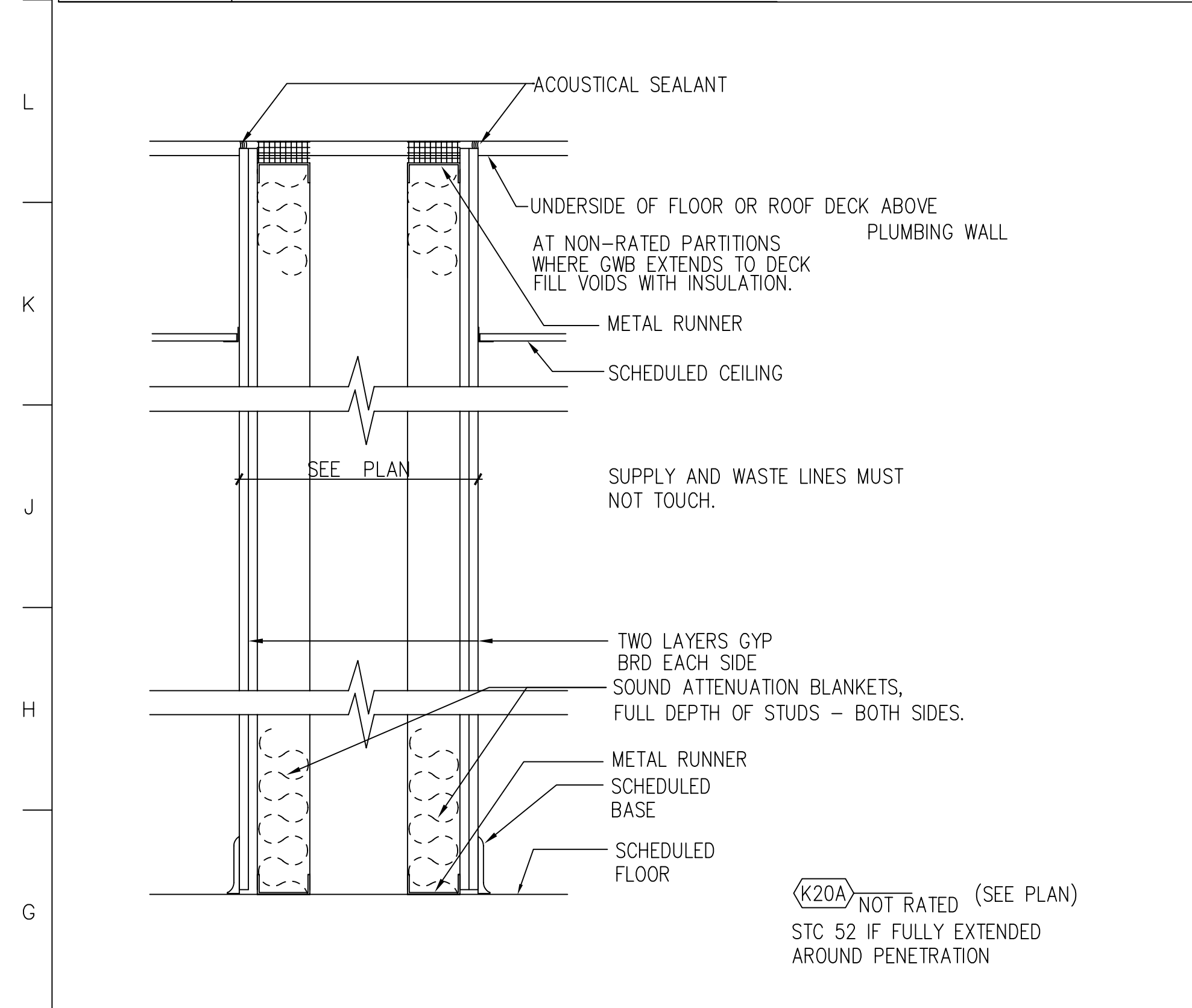
- PROVIDE SOUND ATTENUATION BLANKET FULL THICKNESS OF STUD.
- TERMINATE GYP BRD 3" ABOVE CEILING INSTEAD OF EXTENDING FULL HEIGHT.
- PROVIDE CEMENT BACKER BOARD INSTEAD OF GYP BRD.
- PARTITION TERMINATES AT UNDERSIDE OF CEILING.
- FACE LAYER TO BE MOISTURE RESISTANT GYP. BD.
- PROVIDE LEAD LINING IN THICKNESS SHOWN TO HEIGHT OF 7'-0" AFF.
- LOW WALL PARTITION 42" ABOVE FINISHED FLOOR, UNO.
- RELOCATE 1 LAYER, TYPE "X" BOARD TO PROVIDE FINISH SURFACE AT BOTH SIDES OF WALL

M1 PARTITION TYPE "Z" - ZEE FURRING  
1 1/2"=1'-0"

M6 PARTITION TYPE "M6"  
1 1/2"=1'-0"

M10 PART. TYPE "S" - SHAFT WALL  
1 1/2"=1'-0"

M14 PARTITION TYPE "C" - GWB  
1 1/2"=1'-0" A1



**KEY TO PARTITION TAG**

PARTITION TYPE

FIRE RATING REQUIRED IN HOURS ("0" INDICATES NO RATING REQUIRED)

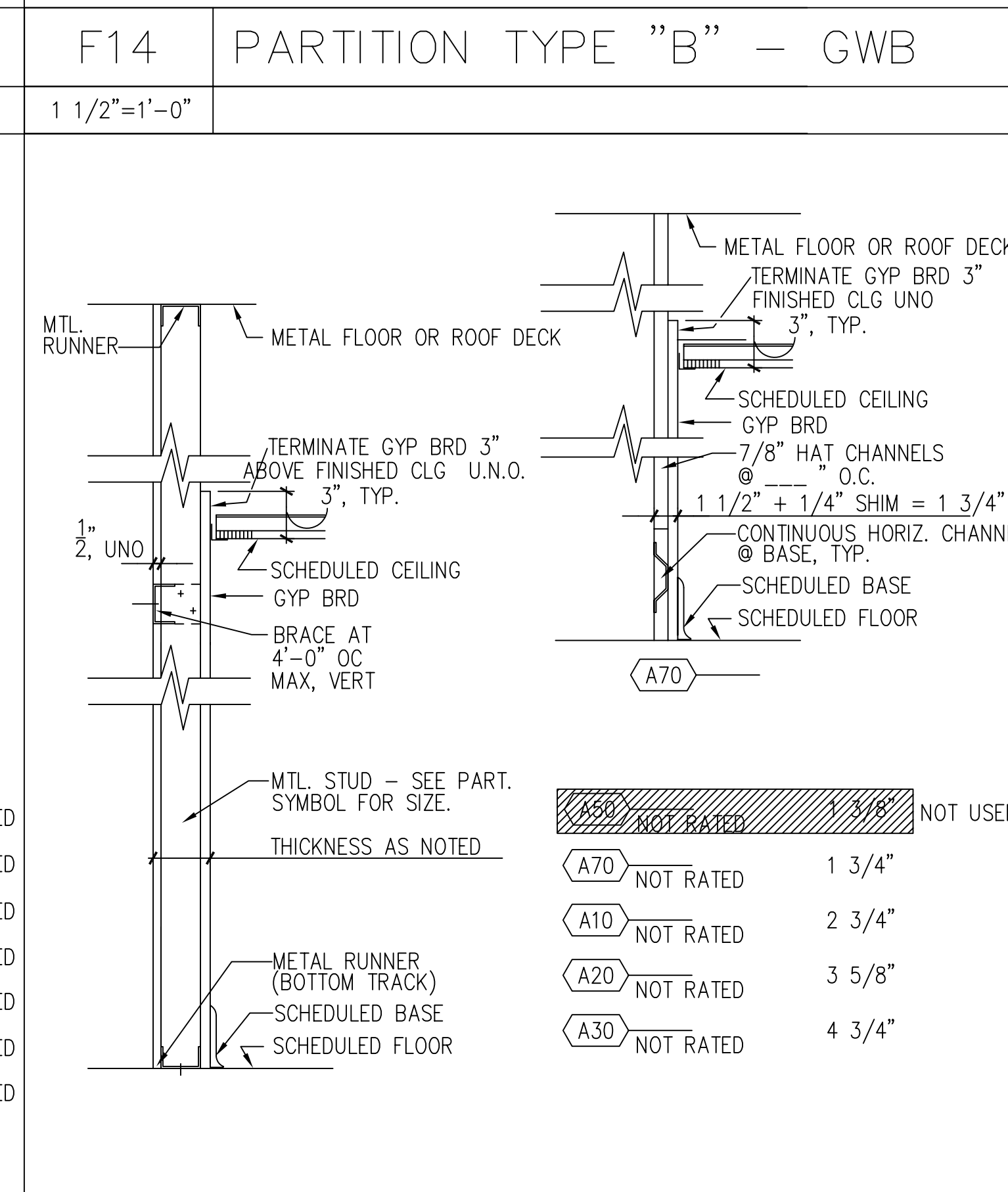
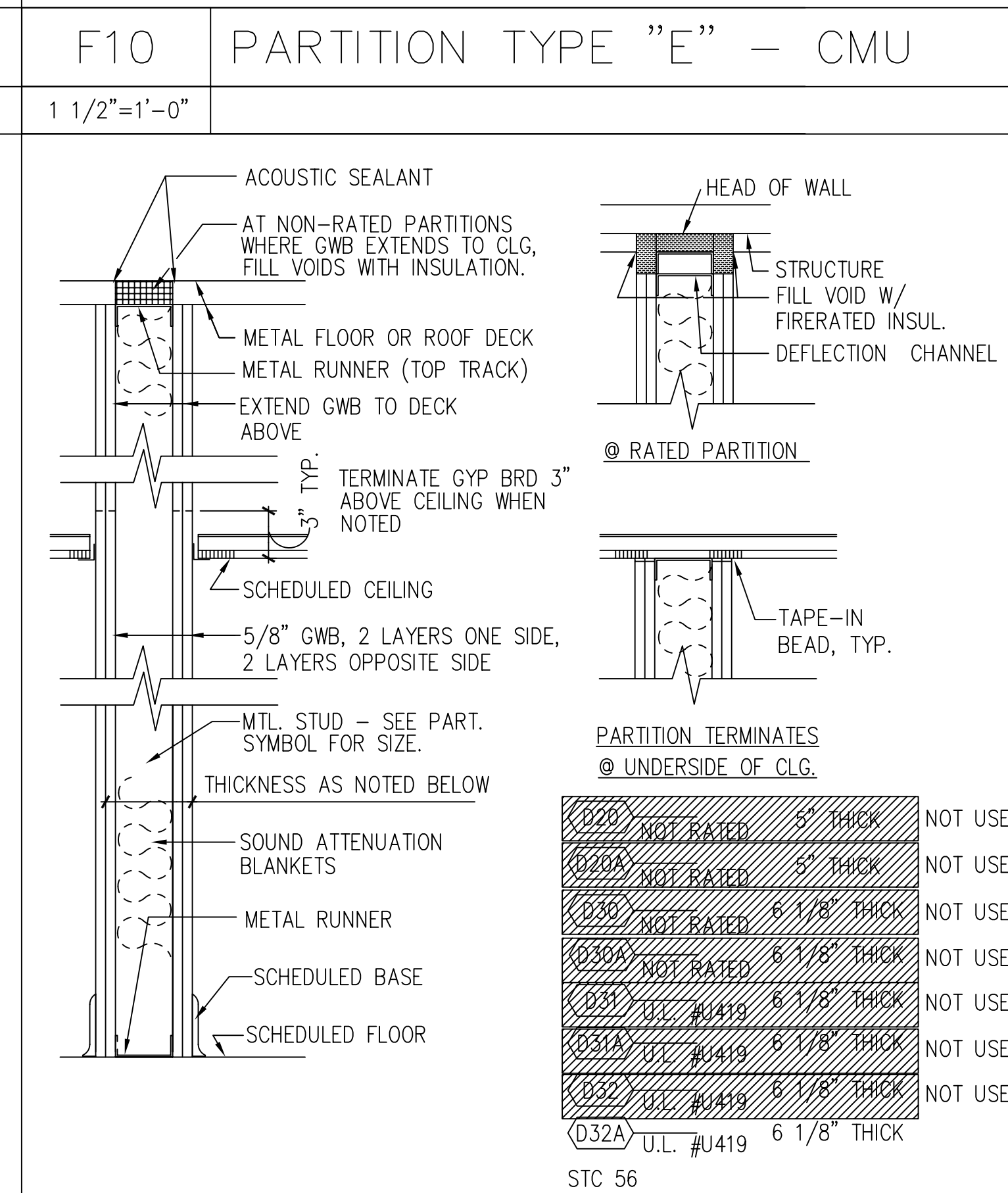
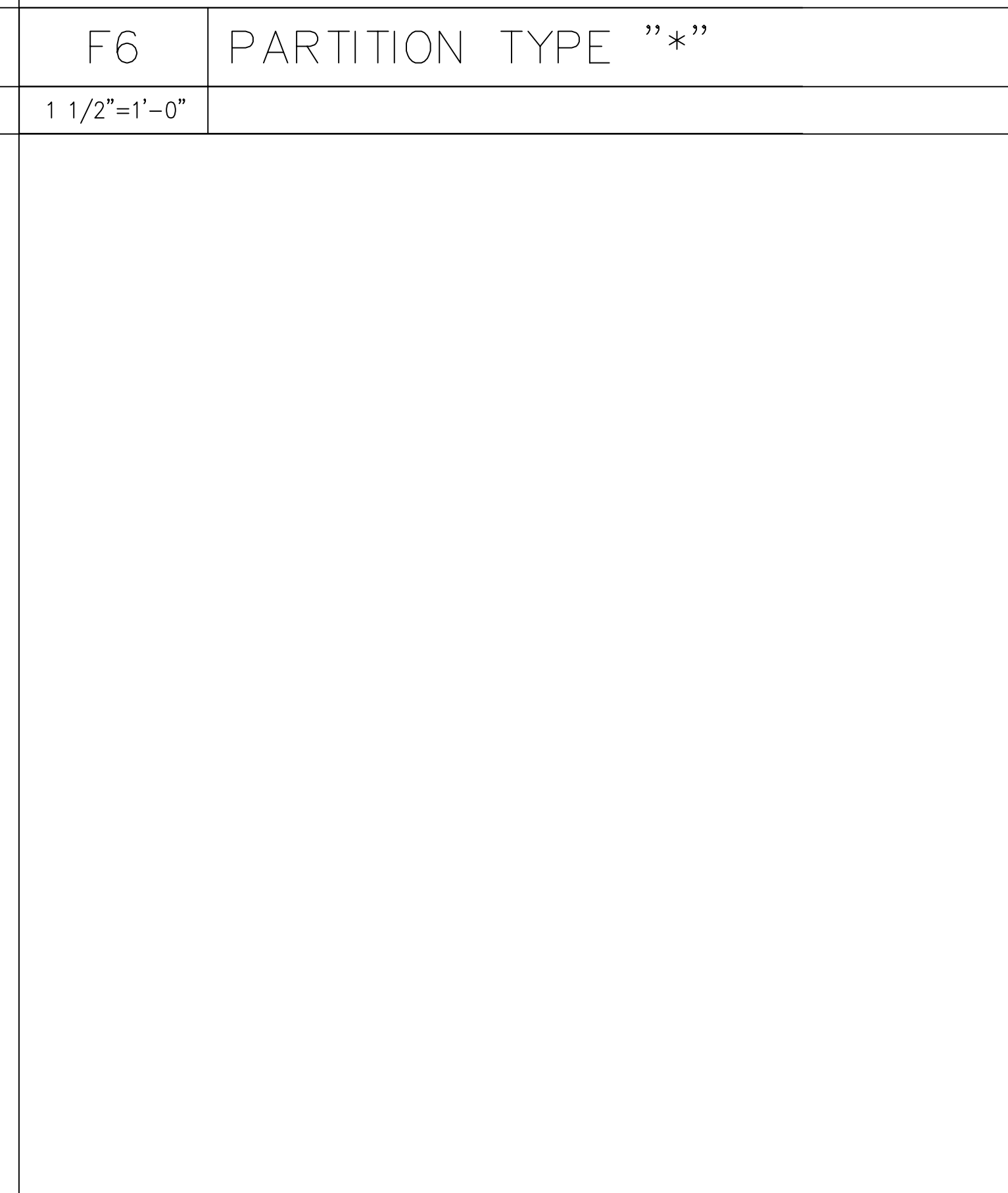
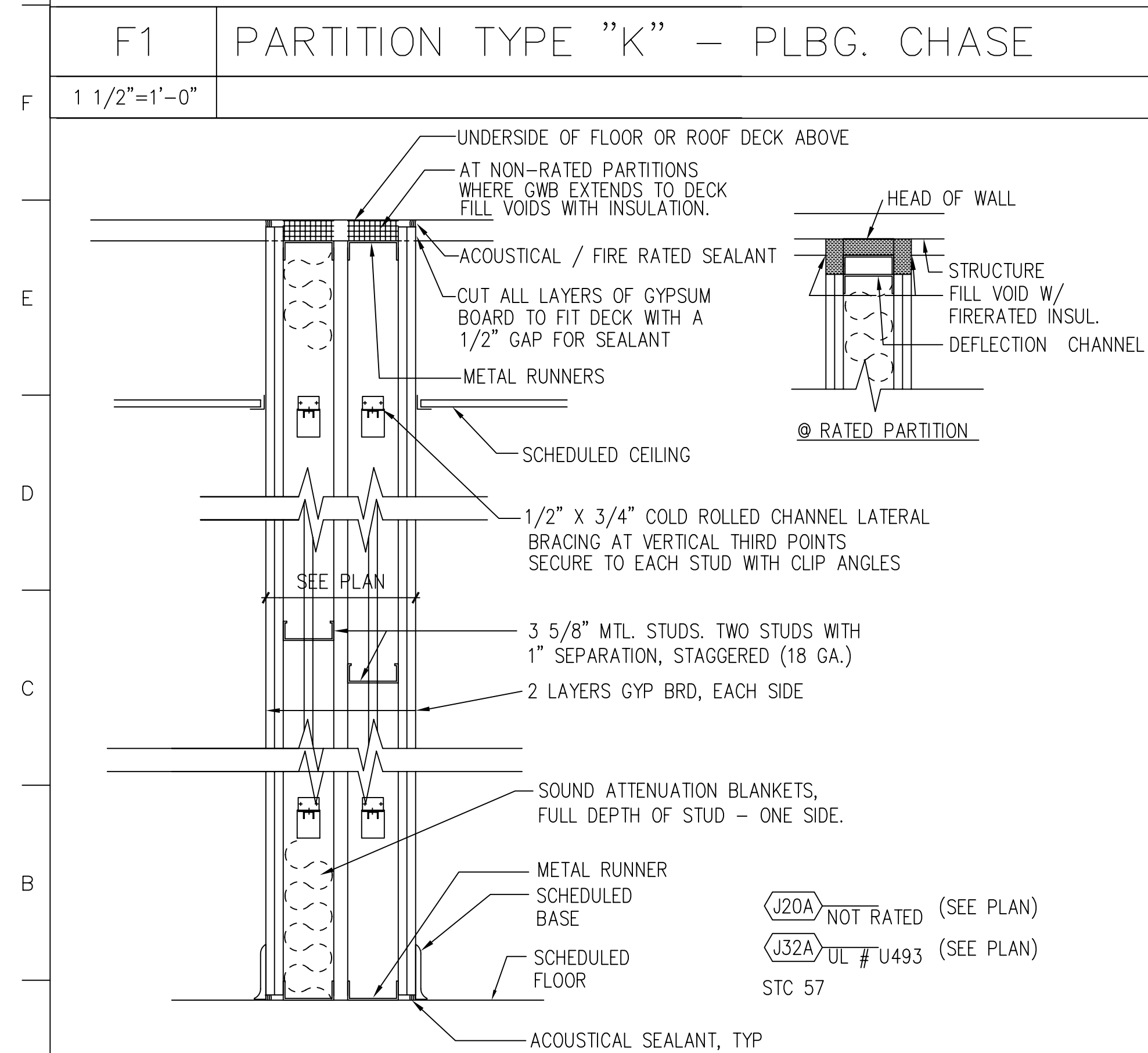
ADDITIONAL NOTES

NOMINAL WIDTH OF CMU OR STUD

FOR SHAFT WALLS STUD SIZE IS INDICATED AS FOLLOWS:  
2 - 2 1/2" CH OR 1 STUD  
4 - 4" CH OR 1 STUD

FOR CMU WALLS THICKNESS IS INDICATED AS FOLLOWS:  
1 - 11 5/8" CMU  
4 - 3 5/8" CMU  
6 - 5 5/8" CMU  
8 - 7 5/8" CMU  
9 - 9 5/8" CMU

FOR STUD WALLS STUD SIZE IS INDICATED AS FOLLOWS:  
1 - 1 5/8" STUD OR 1 1/2" ZEE  
2 - 2 1/2" STUD  
3 - 3 5/8" STUDS  
4 - 4" STUDS  
5 - 1/2" RESILIENT FURRING CHANNELS  
6 - 8" STUDS  
7 - 7/8" HAT SHAPED FURRING CHANNELS  
8 - 8" STUDS



**KEY TO PARTITION TAG**

PARTITION TYPE

FIRE RATING REQUIRED IN HOURS ("0" INDICATES NO RATING REQUIRED)

ADDITIONAL NOTES

NOMINAL WIDTH OF CMU OR STUD

FOR SHAFT WALLS STUD SIZE IS INDICATED AS FOLLOWS:  
2 - 2 1/2" CH OR 1 STUD  
4 - 4" CH OR 1 STUD

FOR CMU WALLS THICKNESS IS INDICATED AS FOLLOWS:  
1 - 11 5/8" CMU  
4 - 3 5/8" CMU  
6 - 5 5/8" CMU  
8 - 7 5/8" CMU  
9 - 9 5/8" CMU

FOR STUD WALLS STUD SIZE IS INDICATED AS FOLLOWS:  
1 - 1 5/8" STUD OR 1 1/2" ZEE  
2 - 2 1/2" STUD  
3 - 3 5/8" STUDS  
4 - 4" STUDS  
5 - 1/2" RESILIENT FURRING CHANNELS  
6 - 8" STUDS  
7 - 7/8" HAT SHAPED FURRING CHANNELS  
8 - 8" STUDS

A1 PARTITION TYPE "J" - SEPARATED STUDS  
1 1/2"=1'-0" A1

A6 PARTITION TYPE "M6"  
1 1/2"=1'-0"

A10 PART. TYPE "D" - GWB, 2 LYRS.  
1 1/2"=1'-0"

A14 PART. TYPE "A" - FURRED GWB  
1 1/2"=1'-0"

**HEALTH SCIENCES BUILDING**

**MONTGOMERY COLLEGE**

SILVER SPRING, MARYLAND

Takoma Park Campus Expansion

13th Election District

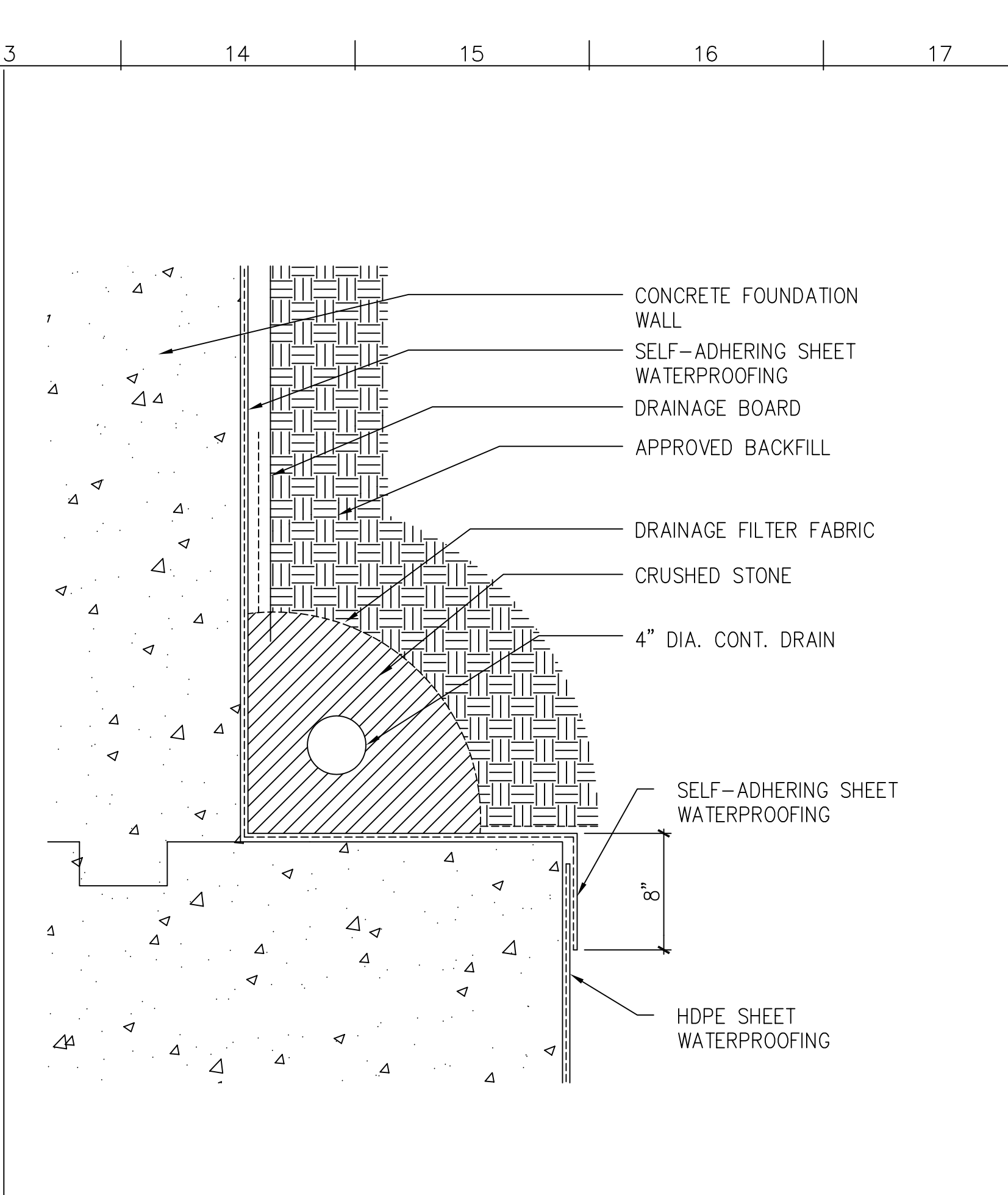
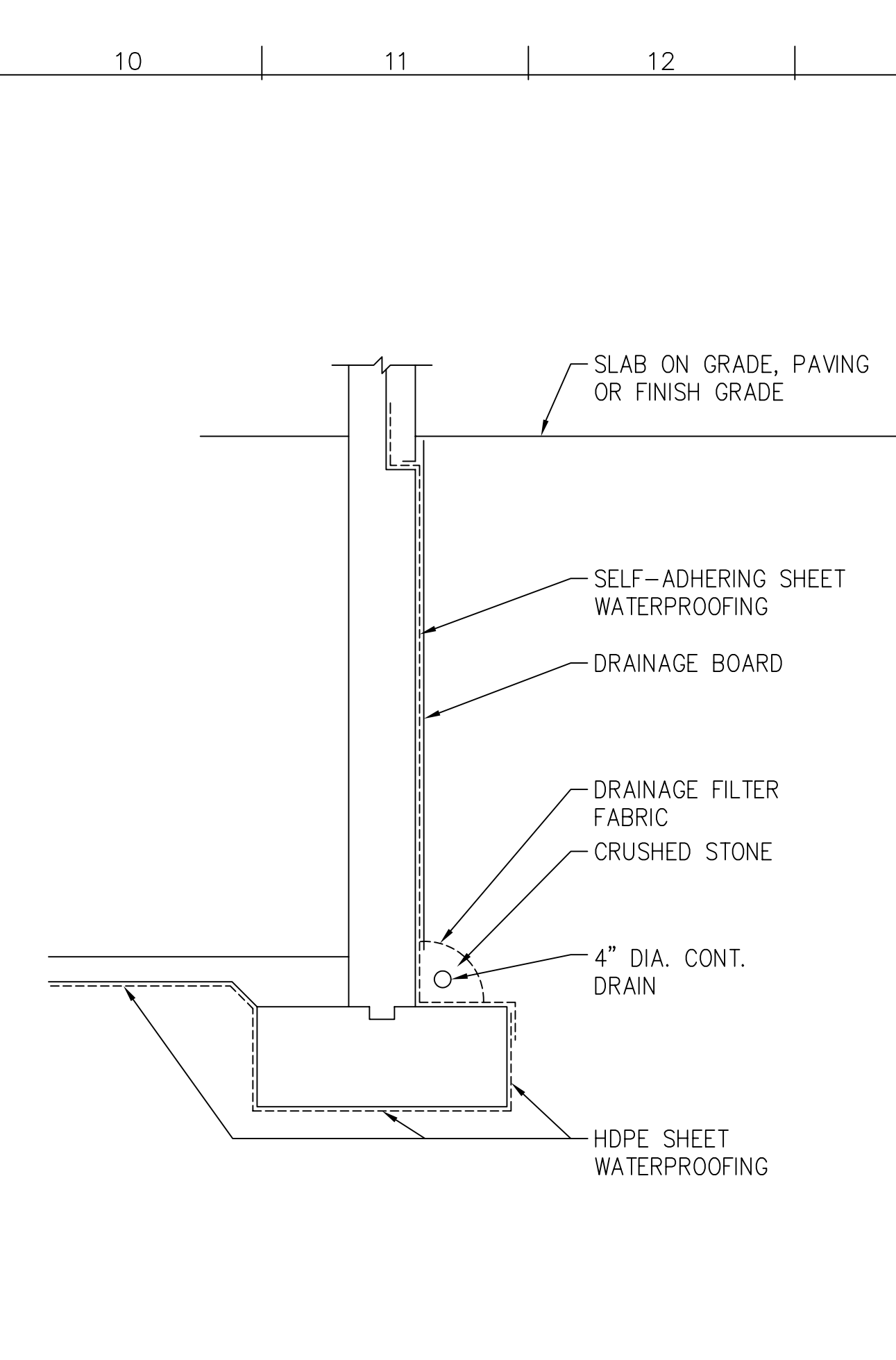
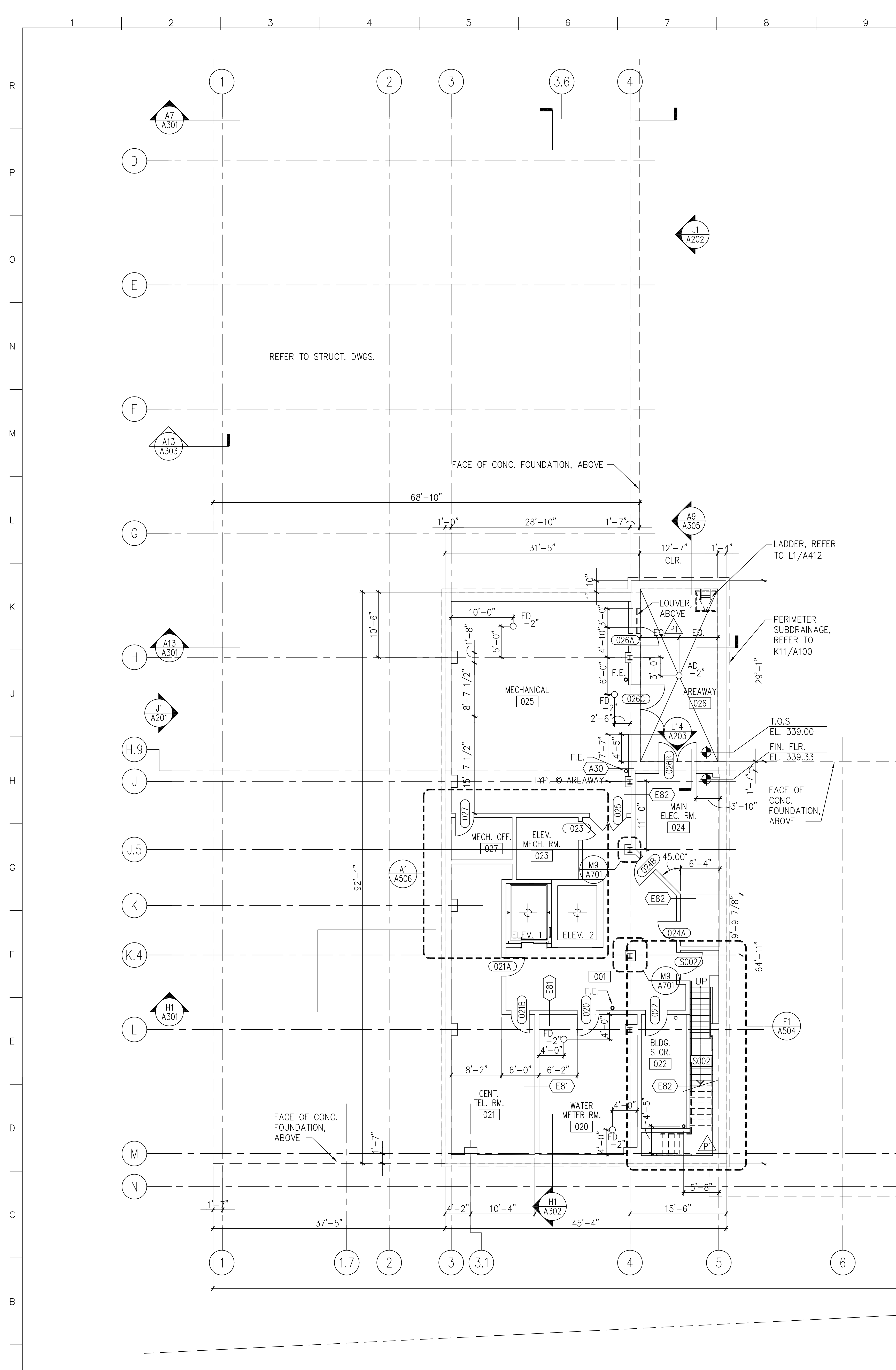
Montgomery County, Maryland

PROJECT NO. 3449501

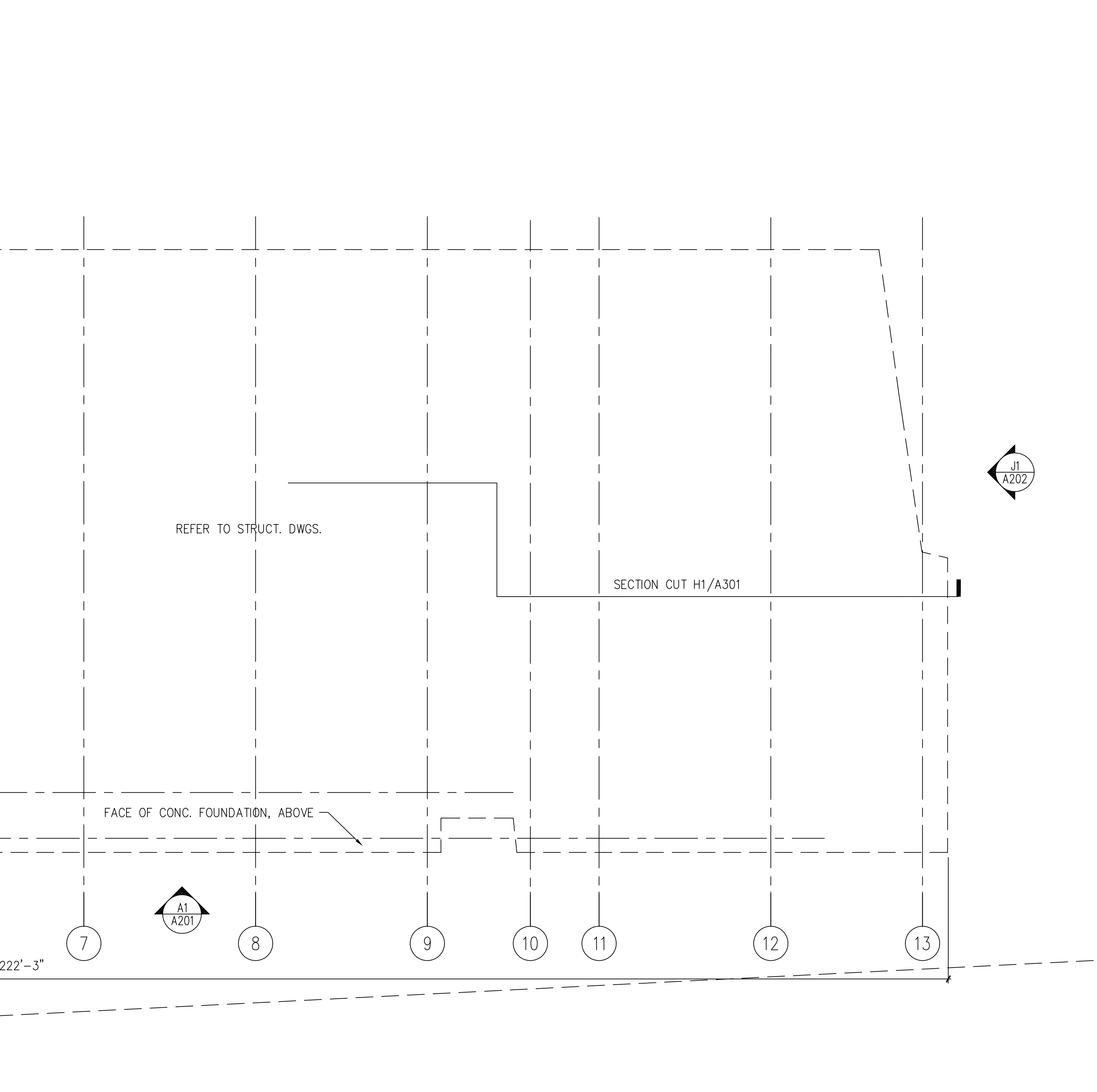
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A002

SHEET NO. OF 22

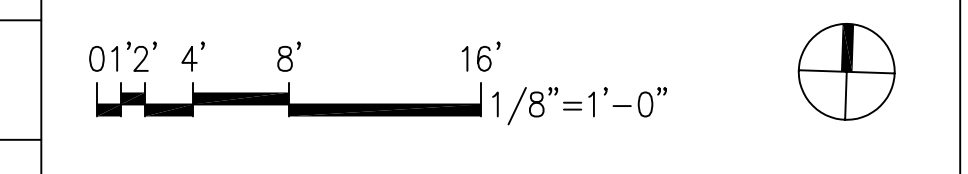


L11	FDN. SUBDRAINAGE SECTION	P11	FDN. SUBDRAINAGE DETAIL
3/8"=1'-0"	A1/A100	1 1/2"=1'-0"	A1/A100



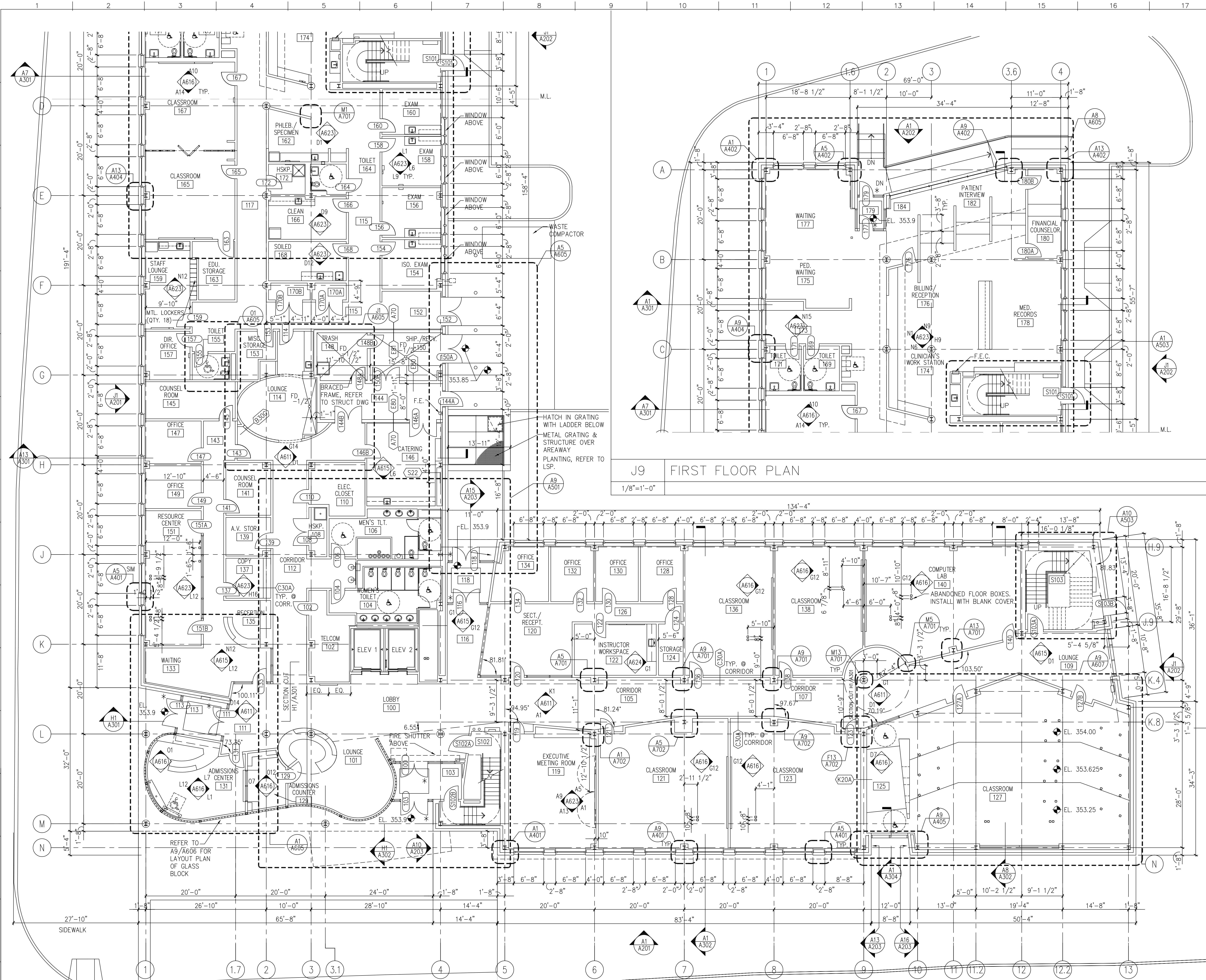
A1 BASEMENT PLAN  
1/8"=1'-0"

no.	revisions/submissions	date



PROJECT NO. A100	DATE: 2/20/02	HEALTH SCIENCES BUILDING	Basement Plan	MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC 97/98-318	MONTGOMERY COLLEGE APPROVAL	DATE
PROJECT MANAGER			DATE	TITLE		
CHIEF - PROJ. MGT. & DESIGN			DATE	DATE		

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J9 FIRST FLOOR PLAN

1/8"=1'-0"

GROSS AREA CALCULATIONS

PENTHOUSE	2,672 GSF
FOURTH FLOOR	15,581 GSF
THIRD FLOOR	24,486 GSF
SECOND FLOOR	26,151 GSF
FIRST FLOOR	25,302 GSF
BASEMENT	3,846 GSF
<b>TOTAL AREA</b>	<b>98,038 GSF</b>

GROSS FLOOR AREA (1ST) 25,242 SF

GENERAL NOTES

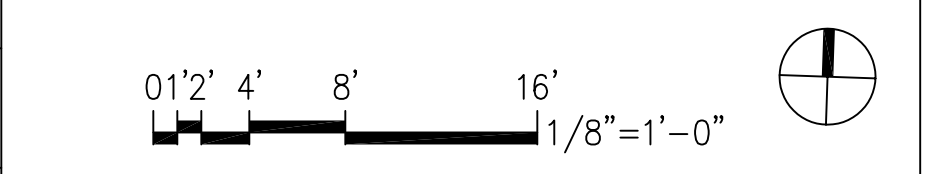
- REFER TO DWG. A002 PARTITION TYPES.
- ALL PARTITIONS SHALL BE TYPE B30A U.N.O.
- WALLS BETWEEN FACULTY OFFICES SHALL BE TYPE B30AB, U.N.O.
- ALL PARTITIONS AT INTERIOR FACE OF EXTERIOR WALLS SHALL BE TYPE A20, U.N.O.
- REFER TO ENLARGED PLANS FOR PARTITION TYPES AND DIMENSIONS WITHIN ENLARGED PLAN AREAS.
- REFER TO A800 SERIES DWGS. FOR REFLECTED CEILING PLANS.
- REFER TO DWG. A900 FOR DOOR SCHEDULE.
- REFER TO DWG. A902 FOR TYP. DIM. FOR LOCATION OF DOORS AND DOOR RECESSES.
- REFER TO ID100 SERIES DWGS AND A624 FOR FLOOR PATTERNS.
- REFER TO A600 SERIES AND ID100 SERIES DWGS FOR IDENTIFICATIONS AND LOCATIONS OF MARKER BOARDS AND TACK BOARDS.
- ALL EXTERIOR WINDOWS AND CURTAIN WALLS SHALL RECEIVE HORIZONTAL BLINDS EXCEPT AT ENTRANCE VESTIBLES AND STAIRS. WINDOWS RECEIVING ADDITIONAL ROLL SHADING ARE NOTED ID SERIES DRAWINGS. REF. DETAIL J12/A711.
- CENTER PARTITIONS ON CENTERLINE OF COLUMN LINE OR PIER, UNLESS OTHERWISE INDICATED.
- PROVIDE 2 HR. FIRE RATED FIREPROOFING FOR SUPPORTING STRUCTURE OF STAIRS, ELEVATOR AND MECHANICAL SHAFTS. REFER TO LS104, LS105, AND LS106 FOR EXTENT OF FIREPROOFING.

\* DENOTES POWER OPERATED DOOR

A1 FIRST FLOOR PLAN

1/8"=1'-0"

no.	revisions/submissions	date



MONTGOMERY COLLEGE  
APPROVAL

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DEPARTMENT OF GENERAL SERVICES  
APPROVAL

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First Floor Plan  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

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HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

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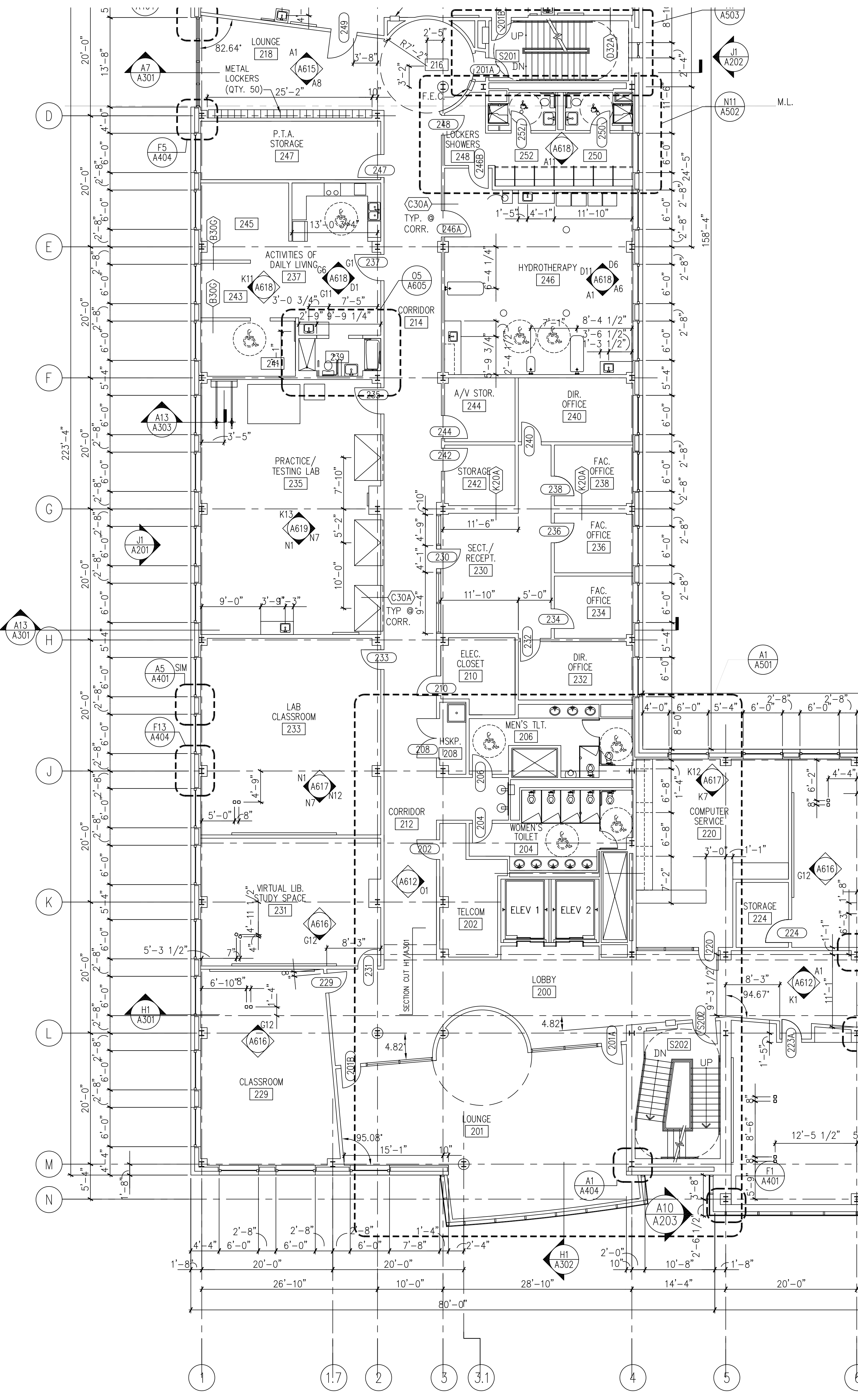
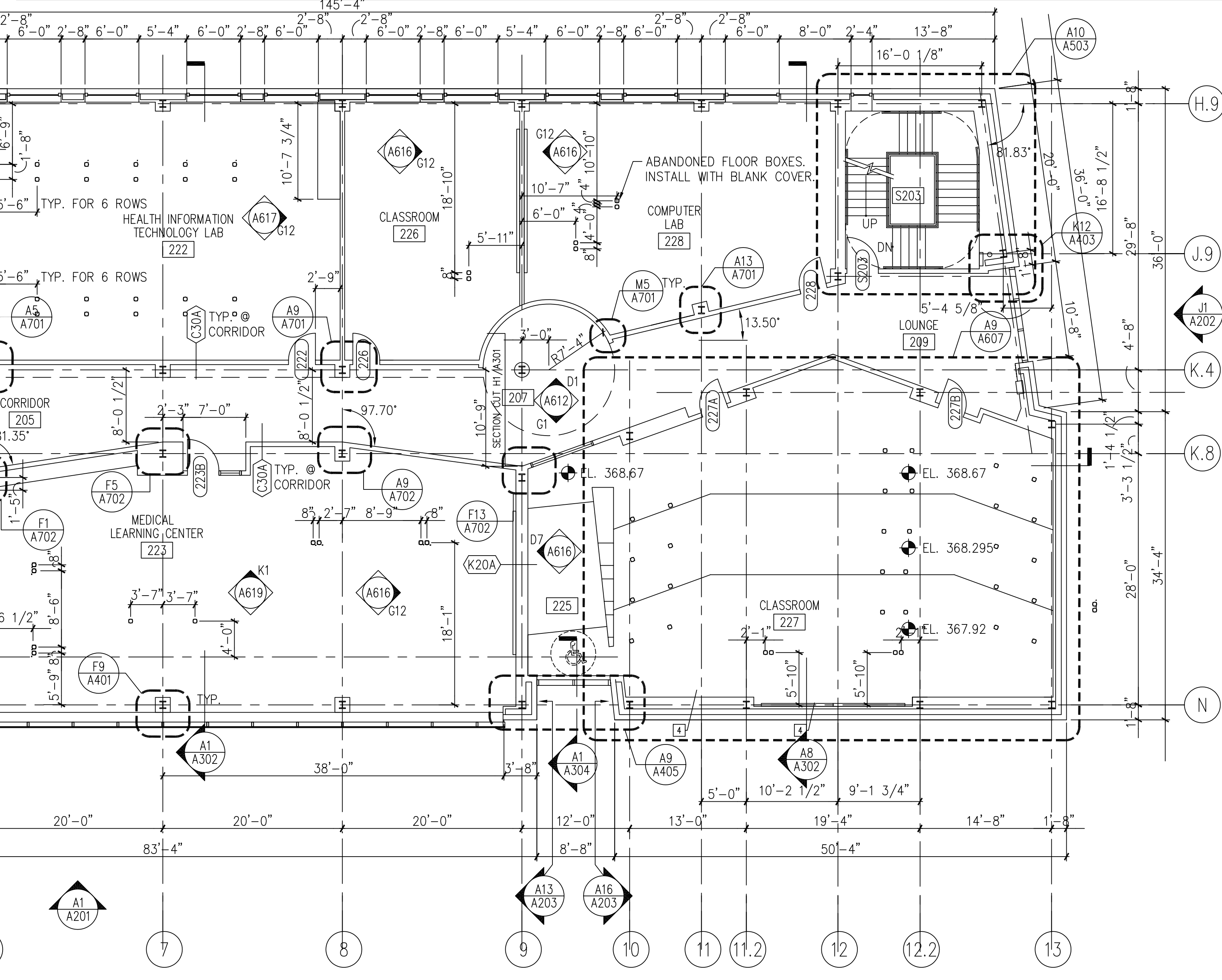
PROJECT NO. 34495.01  
DATE: 2/20/02  
A101  
SHEET 1 OF 22

GENERAL NOTES

- REFER TO DWG. A002 PARTITION TYPES.  
A. ALL PARTITIONS SHALL BE TYPE B30A U.N.O.  
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J9 SECOND FLOOR PLAN

1/8"=1'-0"



A1 SECOND FLOOR PLAN

1/8"=1'-0"

no.	revisions/submissions	date



MONTGOMERY COLLEGE  
APPROVAL

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

Second Floor Plan

HEALTH SCIENCES BUILDING

PROJECT NO. 34495.01  
DATE: 2/20/02

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

A102  
SHEET 1 OF XX

PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

DATE  
DATE  
DATE

TITLE

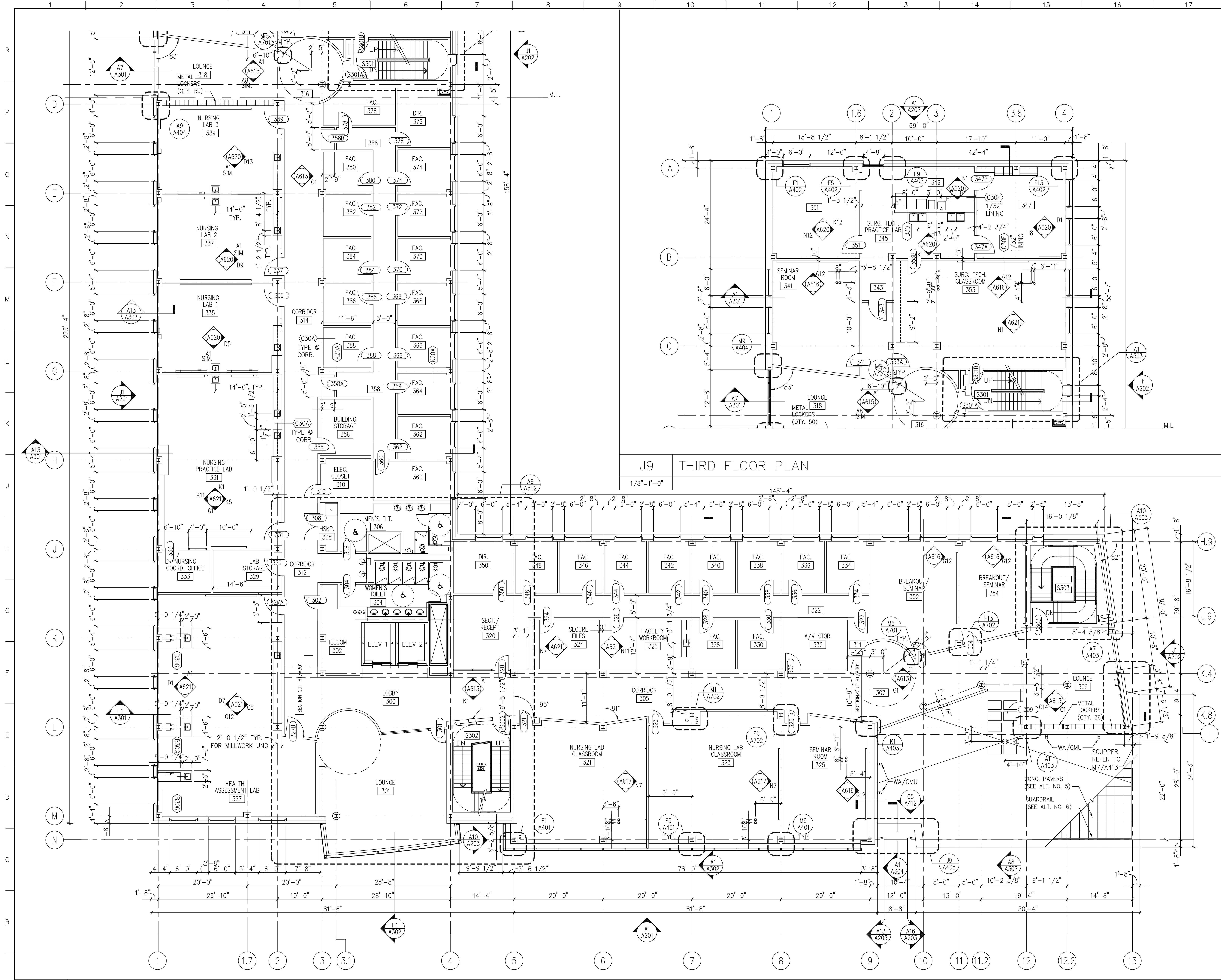
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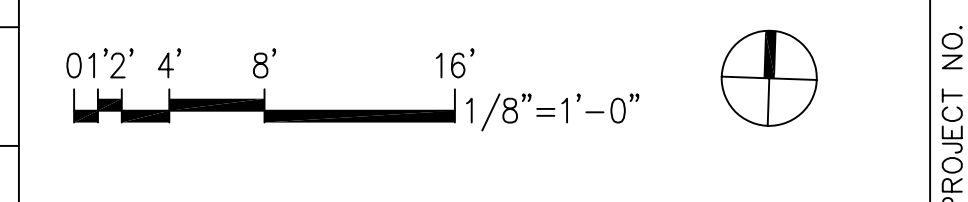


J9 THIRD FLOOR PLAN  
1/8"=1'-0"

GENERAL NOTES

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no.	revisions/submissions	date



A1 THIRD FLOOR PLAN  
1/8"=1'-0"

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

Third Floor Plan

MONTGOMERY COLLEGE  
Takom Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

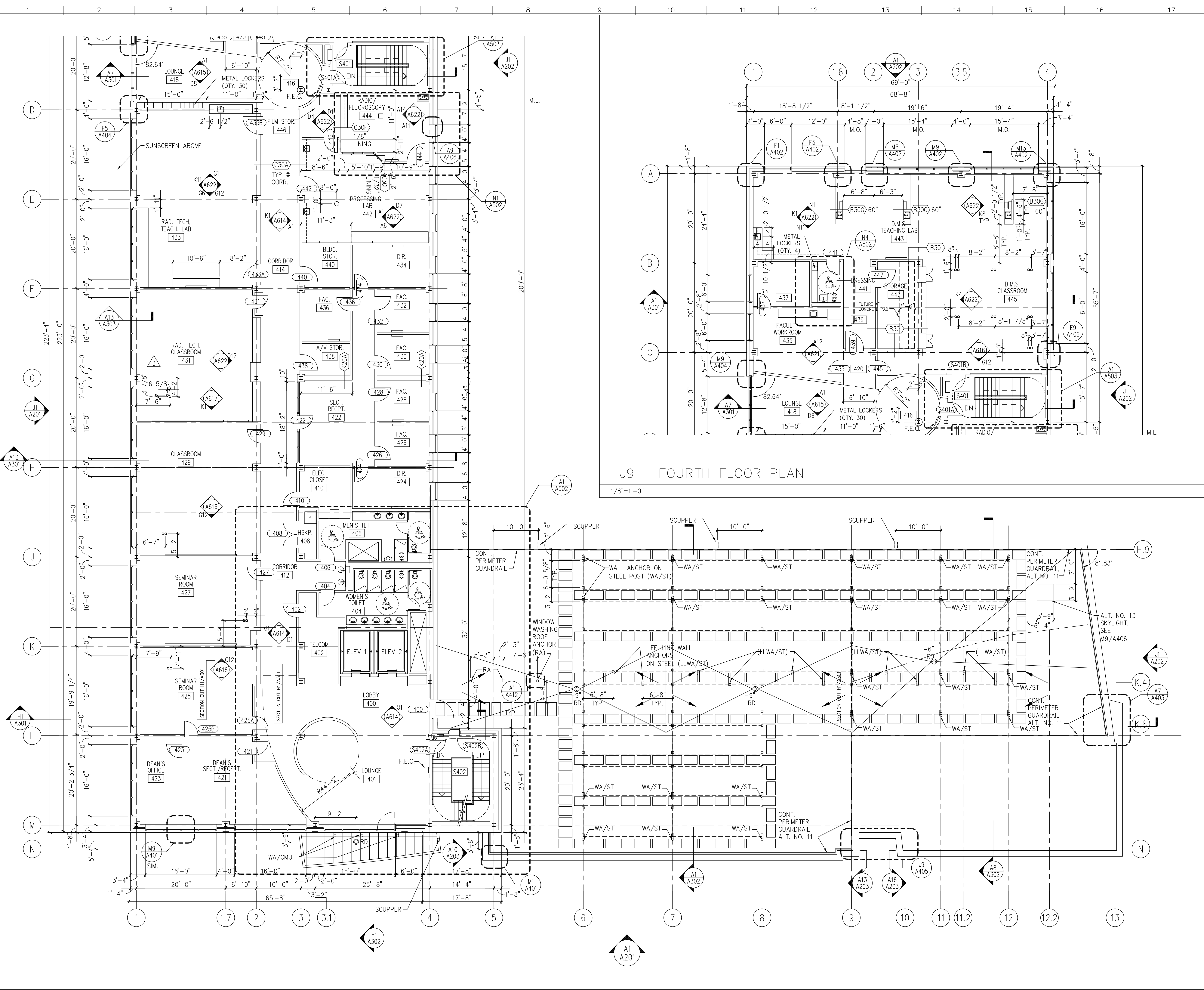
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DATE: 2/20/02  
SHEET X of XX

DATE TITLE

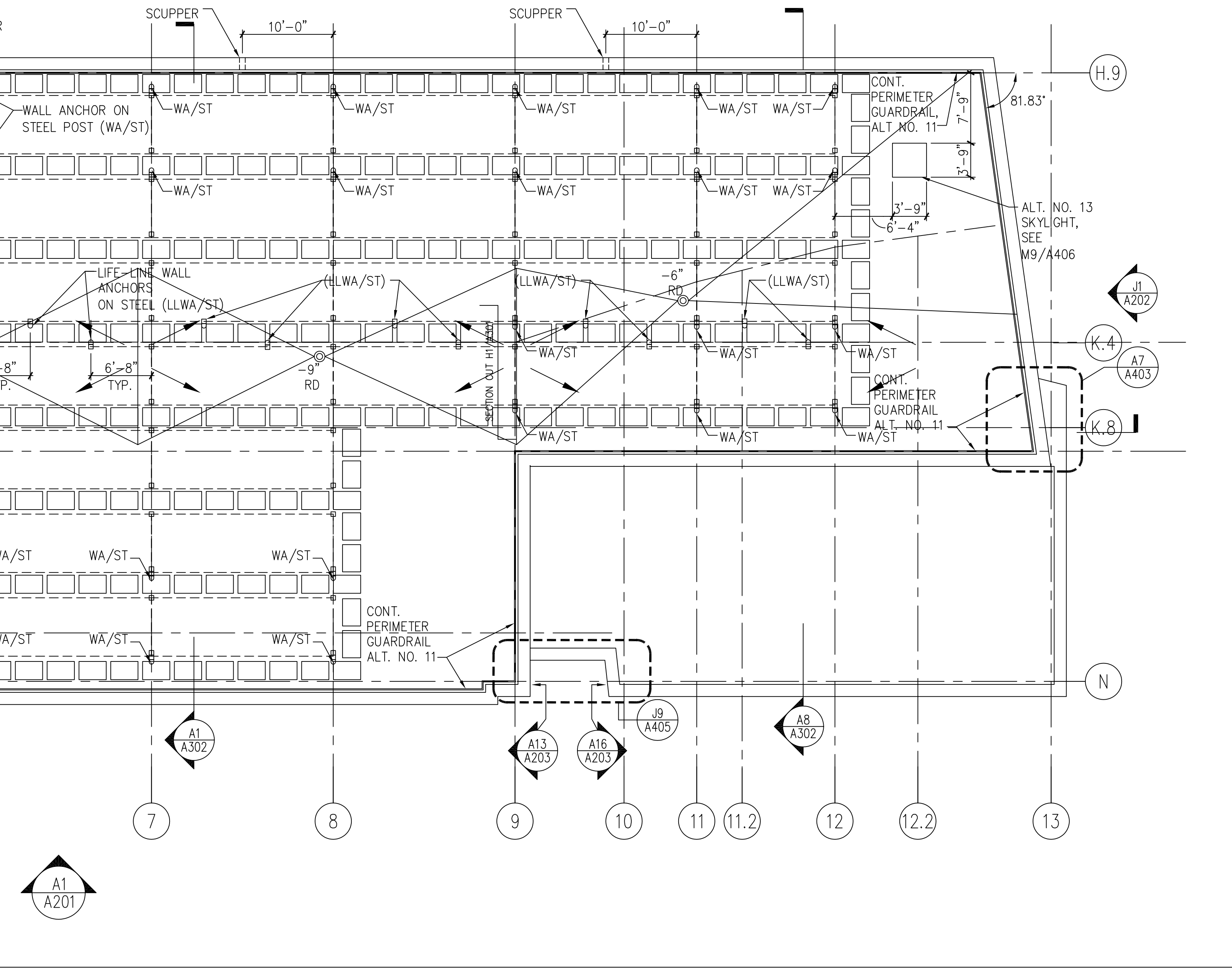
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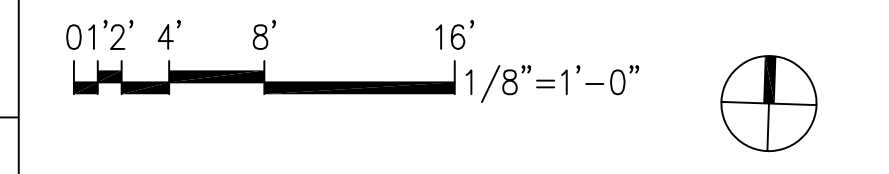


J9 FOURTH FLOOR PLAN  
 1/8"=1'-0"



A1 A201  
 1/8"=1'-0"

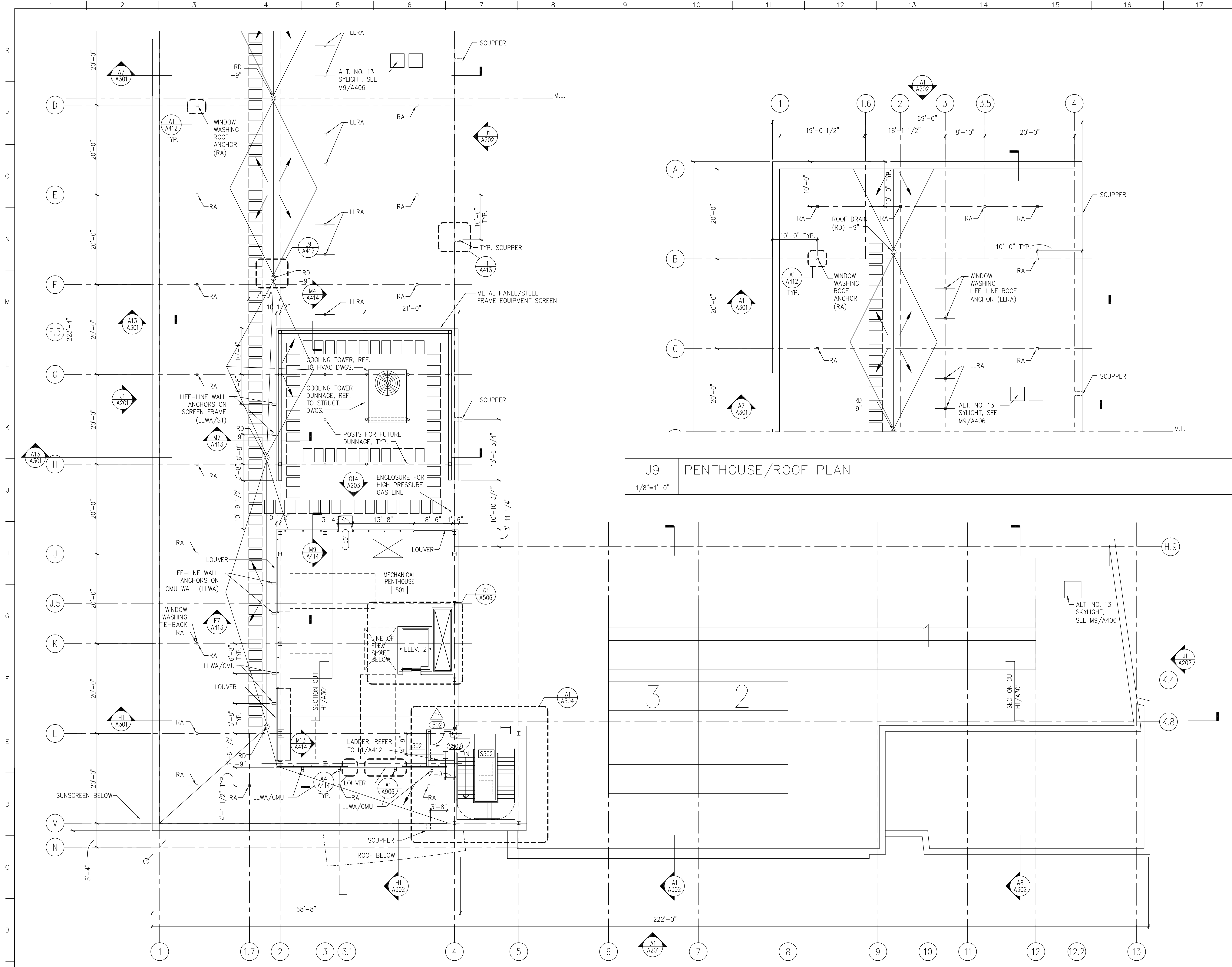
no.	revisions/submissions	date



A1 FOURTH FLOOR PLAN  
 1/8"=1'-0"

PROJECT NO. <b>A104</b> DATE: 2/20/02	HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC-97/98-318	DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER DATE CHIEF - PROJ. MGT. & DESIGN DATE TITLE	MONTGOMERY COLLEGE APPROVAL DATE TITLE	SHEET <b>X</b> OF <b>XX</b>

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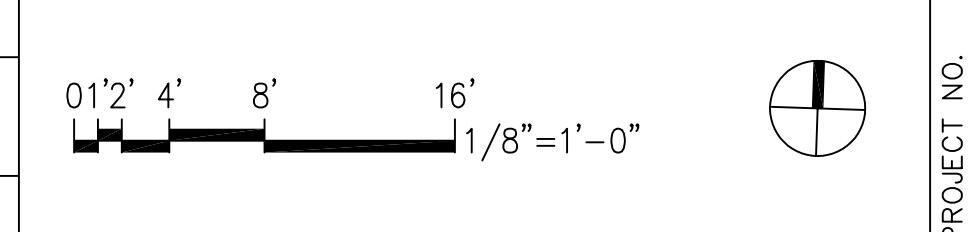


J9 PENTHOUSE/ROOF PLAN  
1/8"=1'-0"

GENERAL NOTES

1. REFER TO DWG. A002 PARTITION TYPES.  
A. ALL PARTITIONS SHALL BE TYPE B30A U.N.O.  
B. WALLS BETWEEN FACULTY OFFICES SHALL BE TYPE B30AB, U.N.O.  
C. ALL PARTITIONS AT INTERIOR FACE OF EXTERIOR WALLS SHALL BE TYPE A20, U.N.O.
2. REFER TO ENLARGED PLANS FOR PARTITION TYPES AND DIMENSIONS WITHIN ENLARGED PLAN AREAS.
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4. REFER TO DWG. A900 FOR DOOR SCHEDULE.  
REFER TO DWG. A902 FOR TYP. DIM. FOR LOCATION OF DOORS AND DOOR RECESSES.
5. REFER TO ID100 SERIES DWGS AND A624 FOR FLOOR PATTERNS.
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9. CENTER PARTITIONS ON CENTERLINE OF COLUMN LINE OR PIER, UNLESS OTHERWISE INDICATED.
10. PROVIDE 2 HR FIRE RATED FIREPROOFING FOR SUPPORTING STRUCTURE OF STAIRS, ELEVATOR AND MECHANICAL SHAFTS. REFER TO LS104, LS105, AND LS106 FOR EXTENT OF FIREPROOFING.

no.	revisions/submissions	date



MONTGOMERY COLLEGE  
APPROVAL

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DEPARTMENT OF GENERAL SERVICES  
APPROVAL

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Penthouse/Roof Plan  
MONTGOMERY COLLEGE  
Takoma Park, Corridor Expansion  
Montgomery County, Maryland

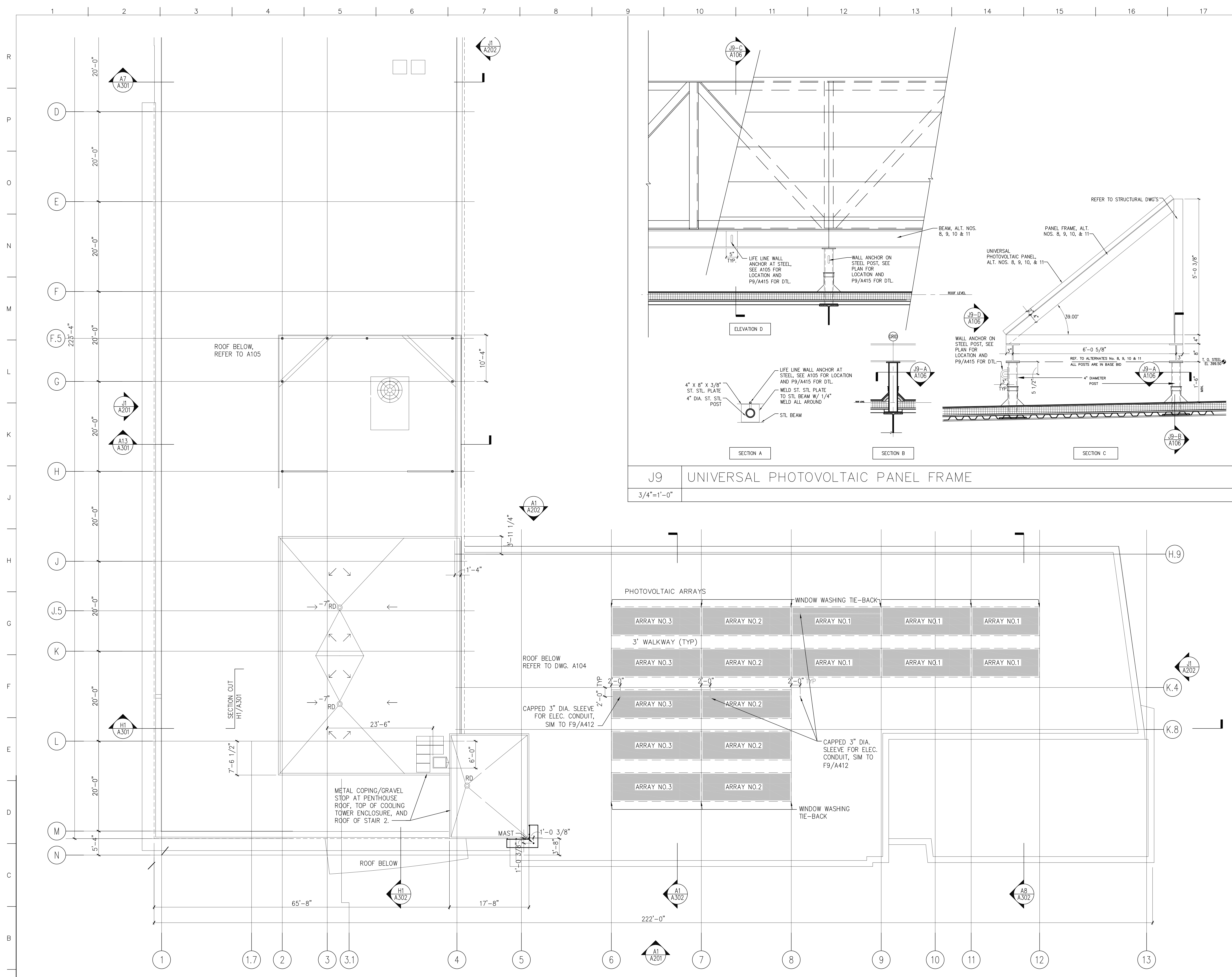
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HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

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PROJECT NO. A105  
DATE: 2/20/02  
SHEET X of XX

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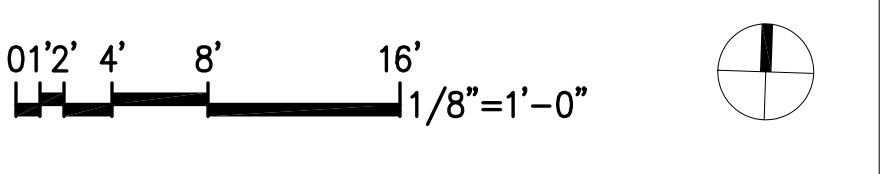
**GENERAL NOTES**

1. REFER TO DWG. A002 PARTITION TYPES.  
 A. ALL PARTITIONS SHALL BE TYPE B30A U.N.O.  
 B. WALLS BETWEEN FACULTY OFFICES SHALL BE TYPE B30AB, U.N.O.  
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**J9 UNIVERSAL PHOTOVOLTAIC PANEL FRAME**  
 3/4"=1'-0"

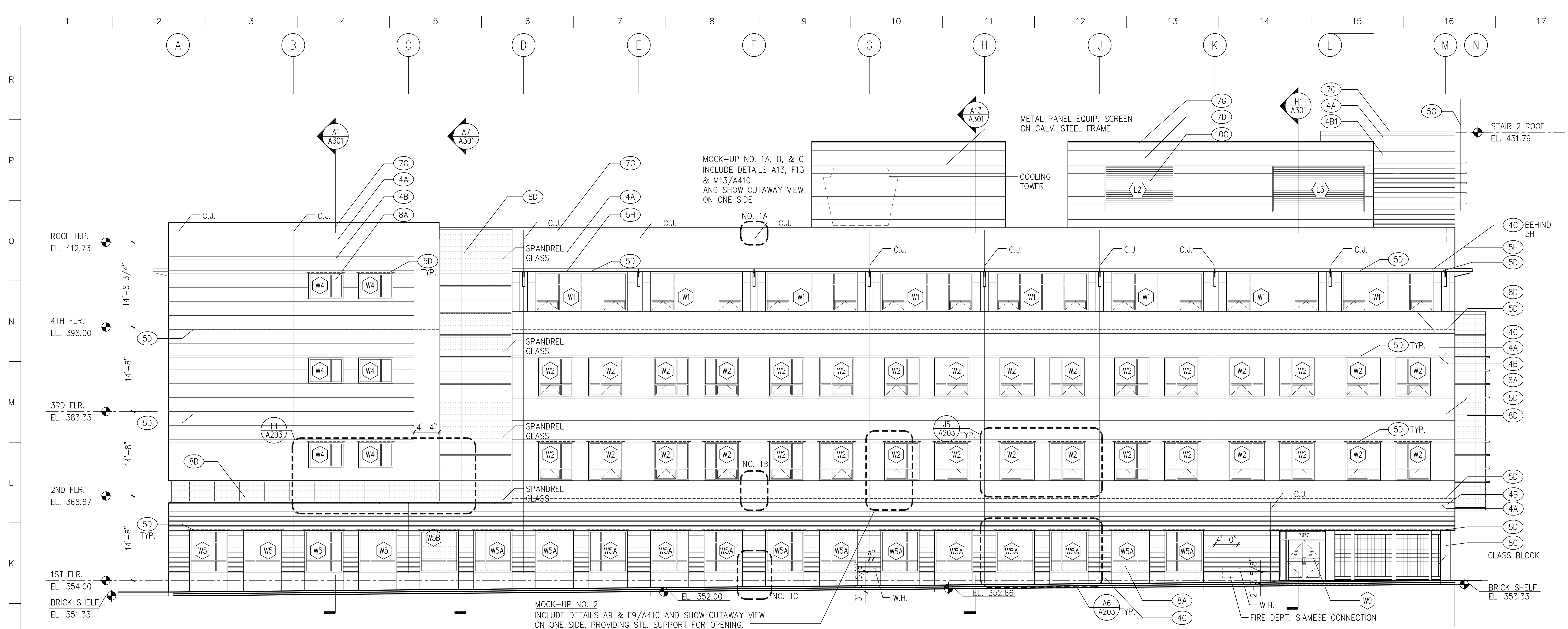
HEALTH SCIENCES BUILDING	MONTGOMERY COLLEGE SILVER SPRING, MARYLAND	MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland	PROJECT # CC-01-MC-97/98-318	PROJECT NO. 34495.01 DATE: 2/20/02
A106	PHOTOVOLTAIC/PENTHOUSE ROOF PLAN	MONTGOMERY COLLEGE APPROVAL	DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE
SHEET XX OF XX	PROJECT MANAGER	DATE	DATE	DATE
CHIEF - PROJ. MGT. & DESIGN	DATE	DATE	DATE	DATE

no.	revisions/submissions	date

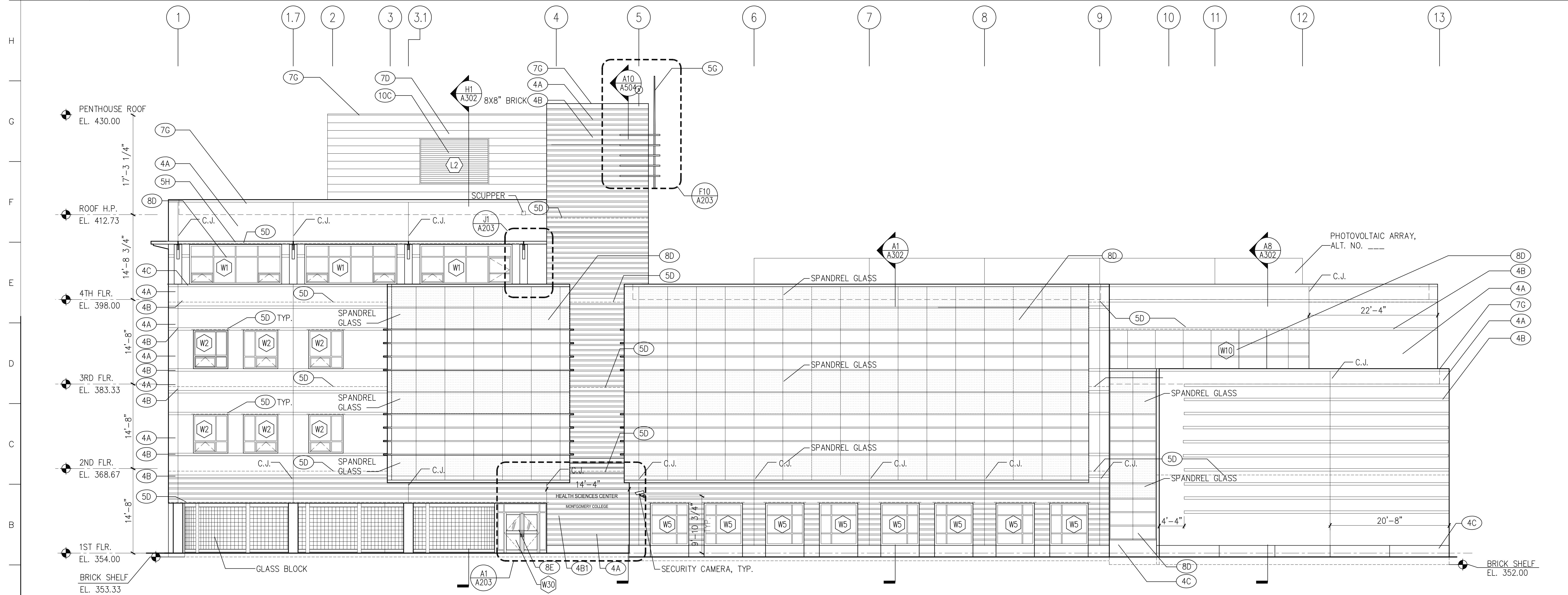


**A1 PENTHOUSE/ROOF PLAN**  
 1/8"=1'-0"

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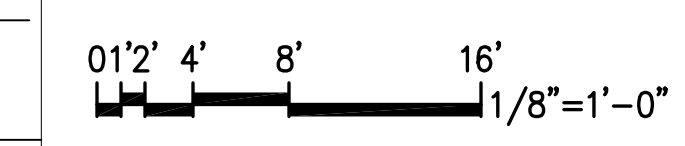
J1 WEST ELEVATION  
1/8"=1'-0"



A1 SOUTH ELEVATION  
1/8"=1'-0"

NOTE 1: CONTROL JOINTS ARE LOCATED ON COLUMN CENTER LINE UNLESS INDICATED OTHERWISE.  
NOTE 2: MATERIALS NOTED AS "ARCHITECTURAL PRECAST CONCRETE" OR "PRECAST CONCRETE" ARE TO BE CAST STONE, PER SECTION 04720.

no.	revisions/submissions	date



HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC 977/98-318

Elevations  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

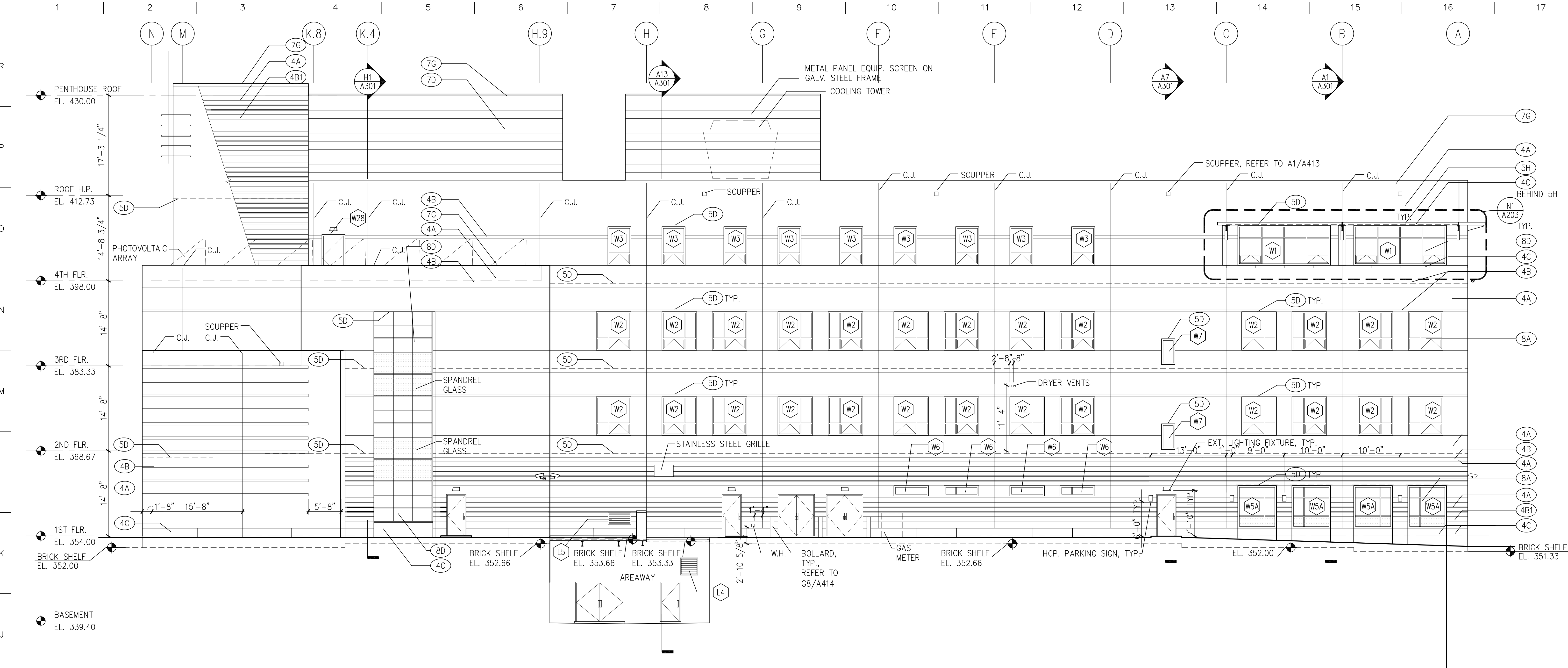
PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

DATE  
DATE  
DATE  
DATE

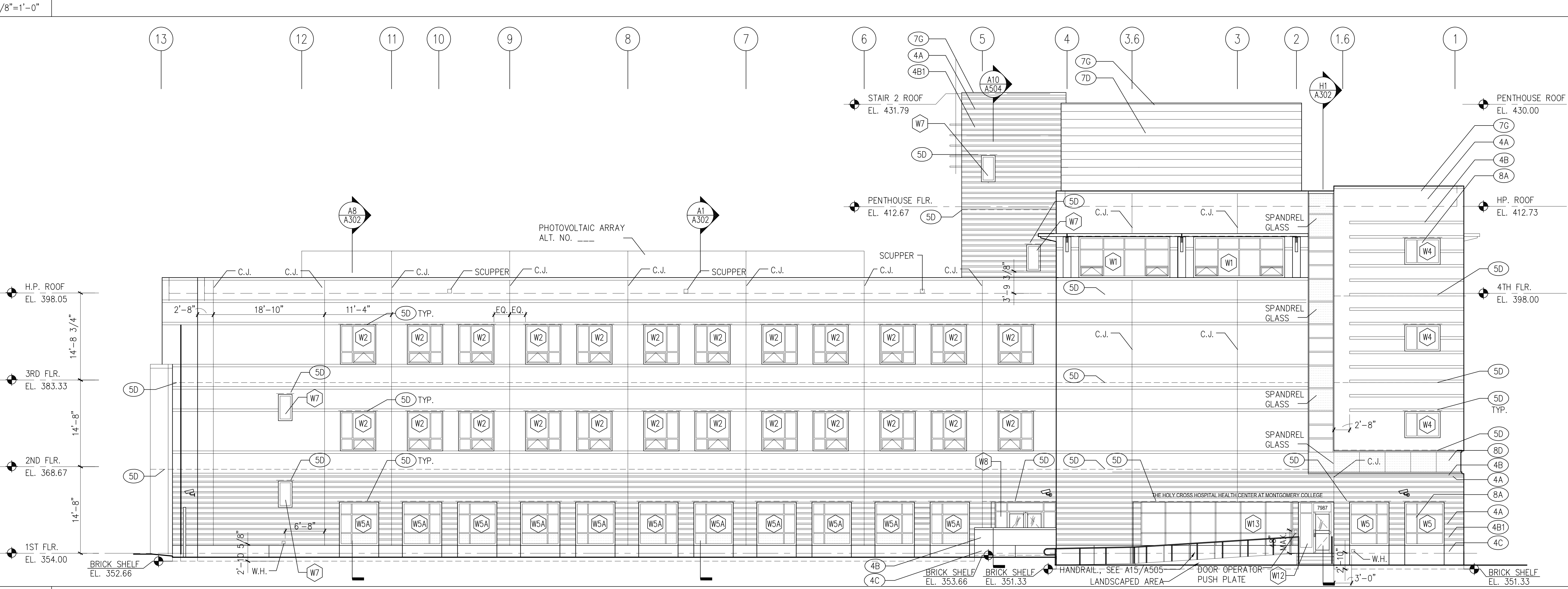
TITLE  
DATE

APPROVAL  
MONTGOMERY COLLEGE  
APPROVAL

PROJECT NO. 34495.01  
DATE: 2/20/02  
A201  
SHEET X OF XX



**J1 EAST ELEVATION**



**A1 NORTH ELEVATION**

**MATERIAL KEYED NOTES**

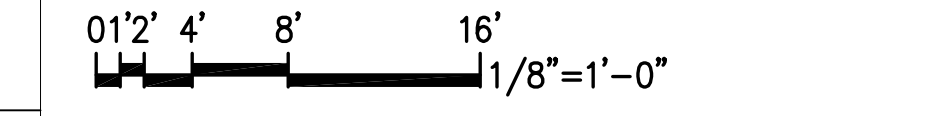
- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING FORMED ALUMINUM COPING
- (7G) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9J) RESILIENT BASE
- (9K) PAINT (Color-Ref. to Schedule)
- (9L) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

NOTE 1: CONTROL JOINTS ARE LOCATED ON COLUMN CENTER LINE UNLESS INDICATED OTHERWISE.

NOTE 2: MATERIALS NOTED AS "ARCHITECTURAL PRECAST CONCRETE" OR "PRECAST CONCRETE" ARE TO BE CAST STONE, PER SECTION 04720.

no.	revisions/submissions	date



APPROVAL

DEPARTMENT OF GENERAL SERVICES

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE

SILVER SPRING, MARYLAND

Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

PROJECT # CC-01-MC-97/98-318

PROJECT MANAGER

DATE

CHIEF - PROJ. MGT. & DESIGN

DATE

TITLE

DATE

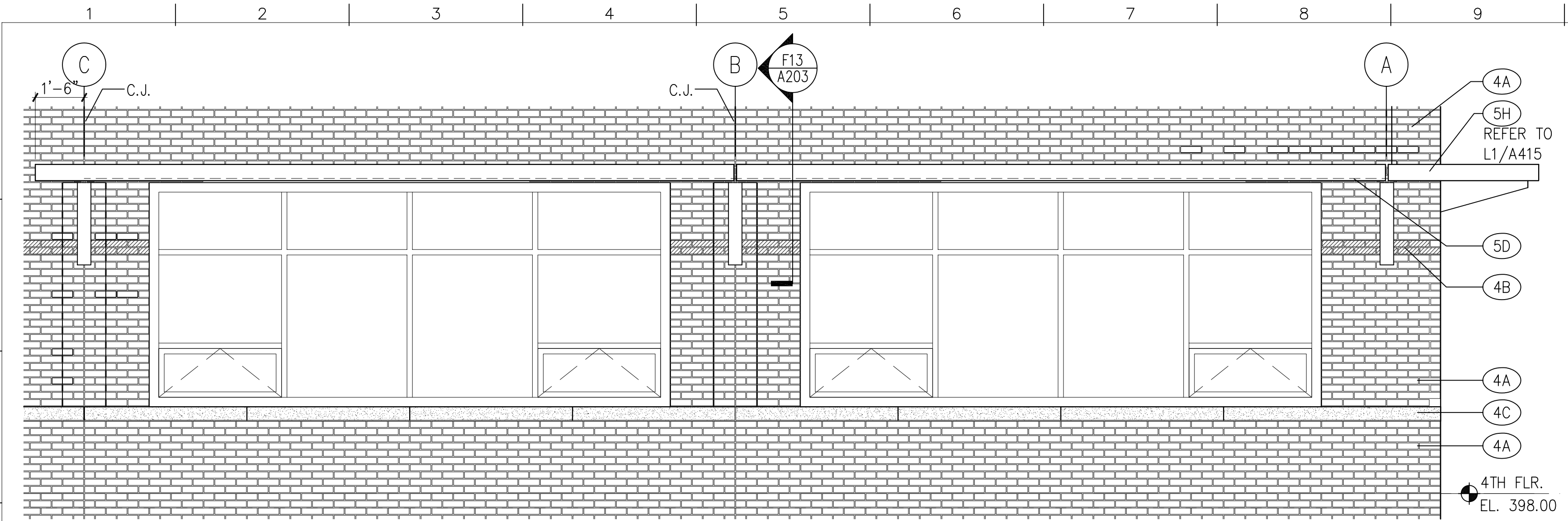
**Elevations**

PROJECT NO. 14499.01

DATE: 2/20/02

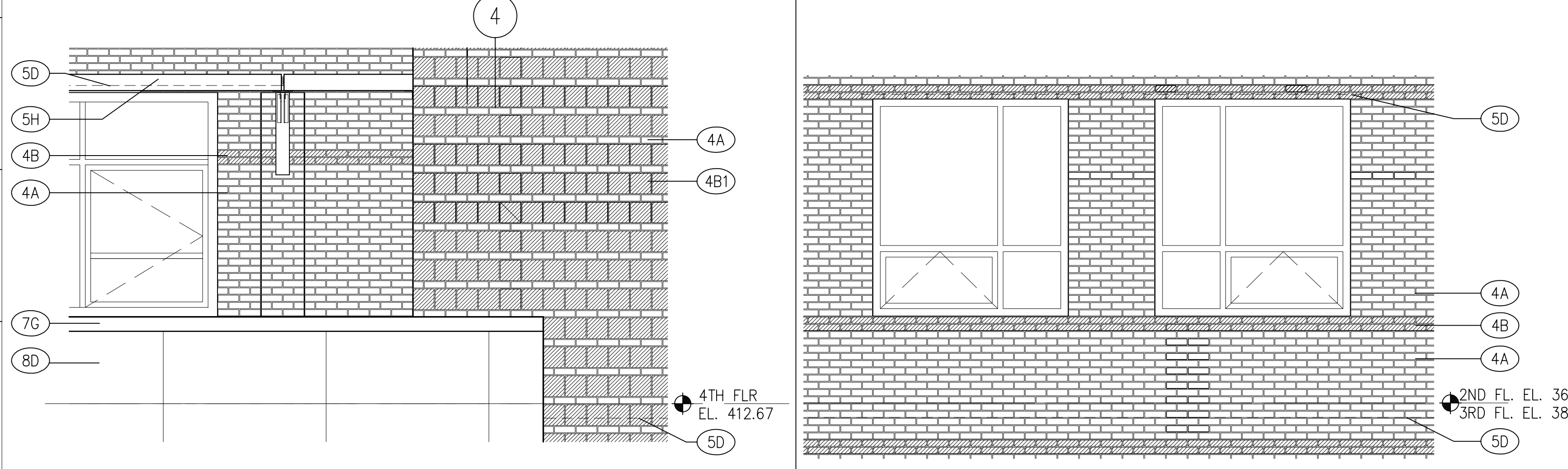
**A202**

SHEET **XX** OF **XX**



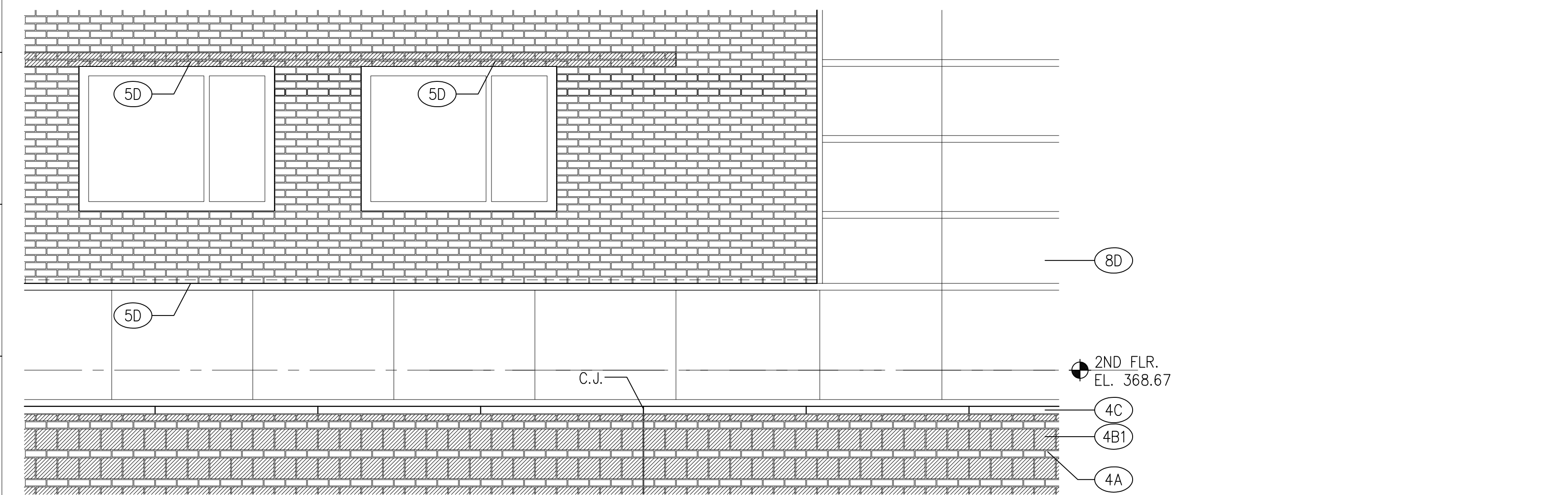
**N1 ELEVATION DETAIL AT FOURTH FLOOR**

3/8" = 1'-0" J1/A202



**J1 ELEVATION DETAIL**

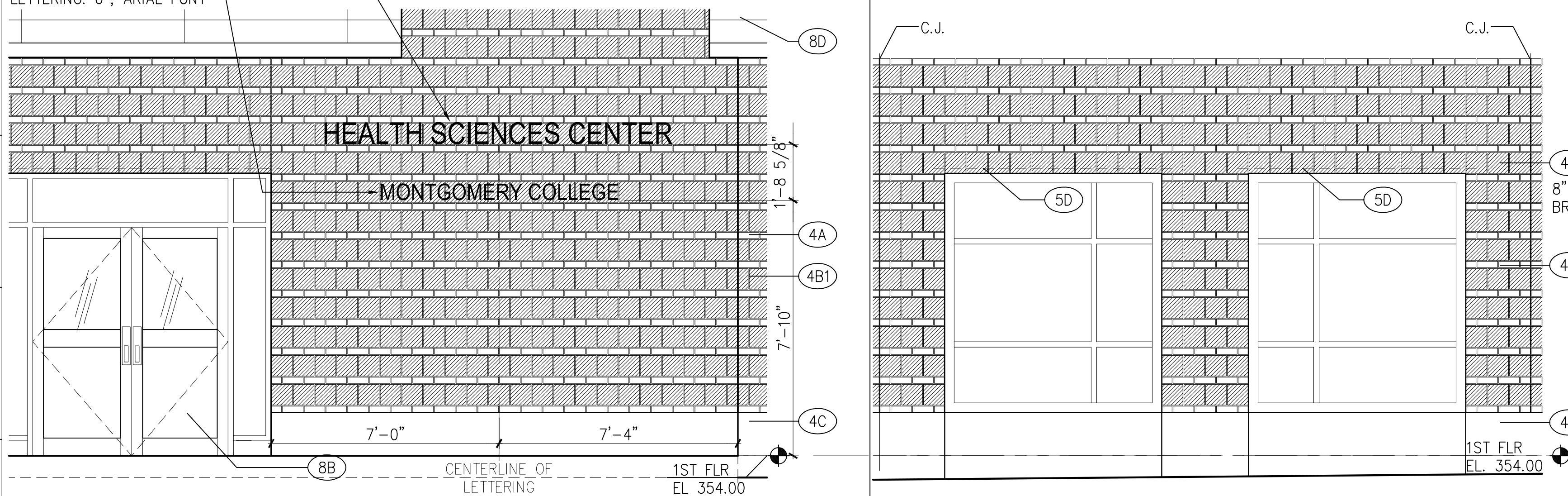
3/8" = 1'-0" J1/A201



**E1 ELEVATION DETAIL**

3/8" = 1'-0" J1/A201

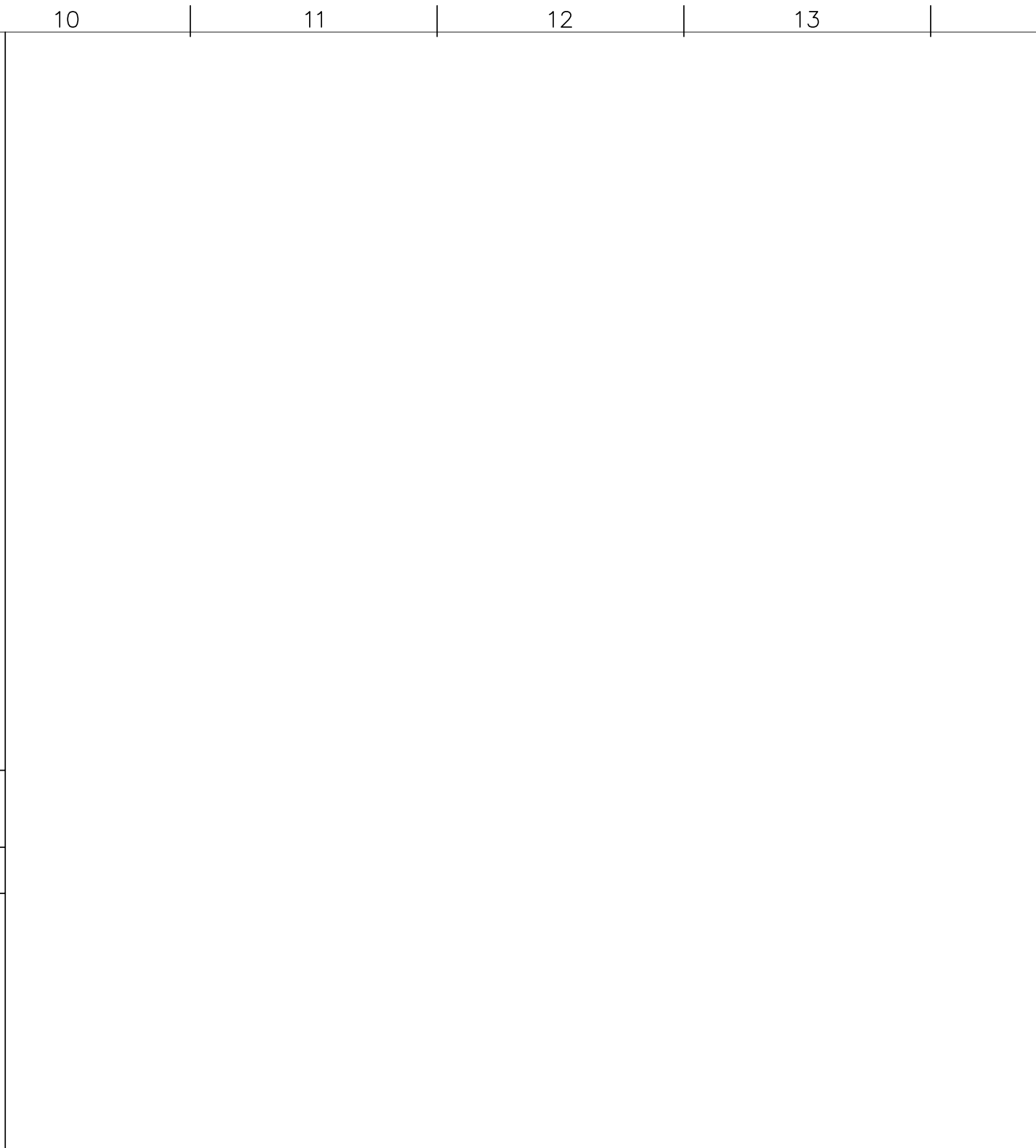
EXTERIOR CAST ALUM DIMENSIONAL LETTERING, 8", ARIAL FONT  
 EXTERIOR CAST ALUM DIMENSIONAL LETTERING, 6", ARIAL FONT  
 NOTE: PROVIDE 3 COAT FLUOROPOLYMER METALLIC FINISH FOR ALL EXTERIOR SIGNAGE, TYP.



**A1 ELEV. DETAIL AT ENTRANCE**

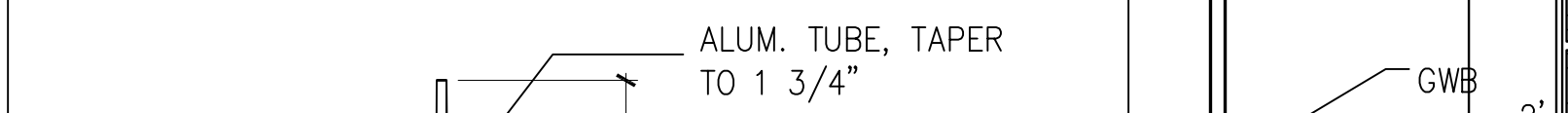
3/8" = 1'-0" A1/A201

PROJECT NO. 34495.01 VARCH/PL/OT/VSB-A203.DWG  
 DATE: 2/20/02  
 PRINTED BY: ENE



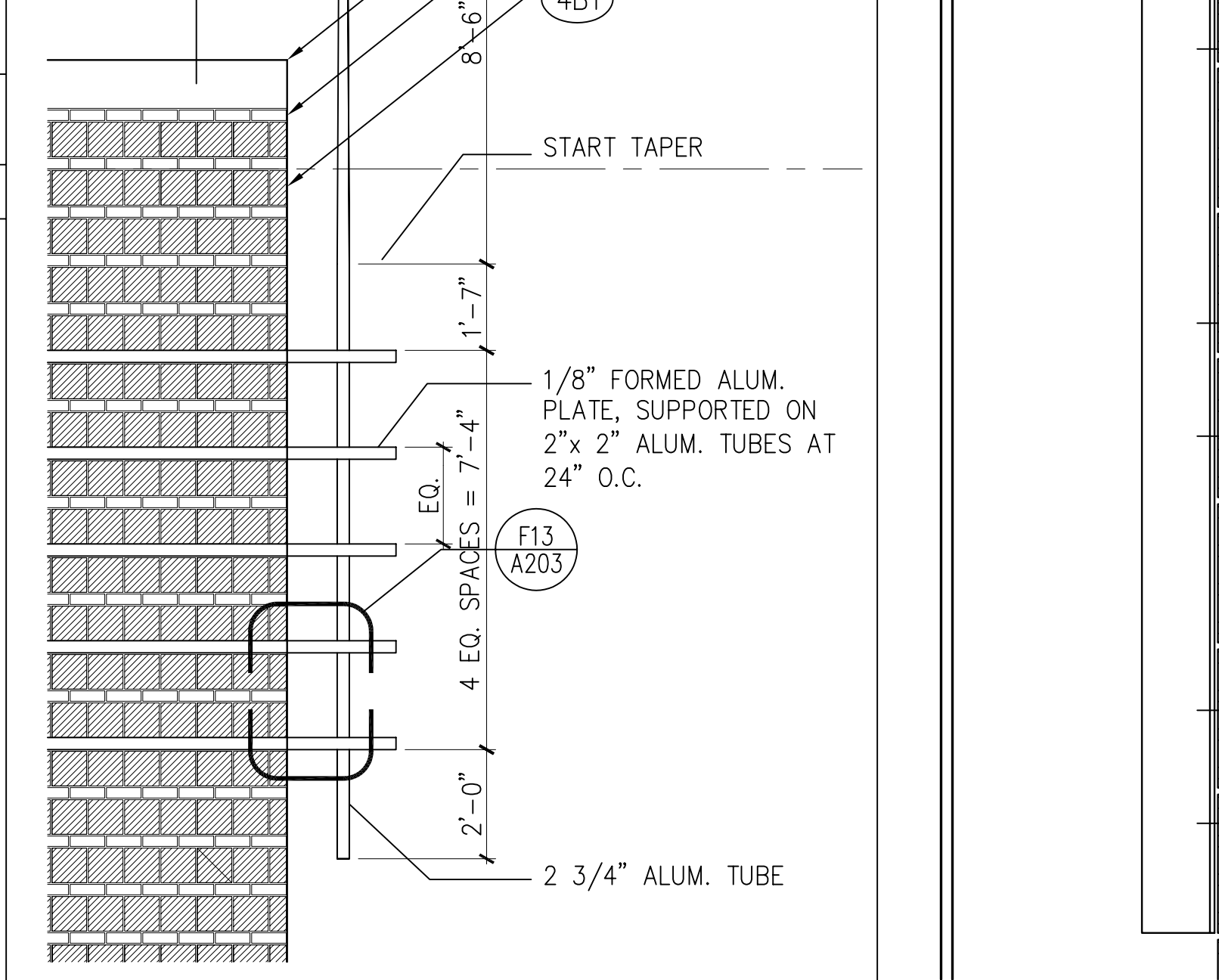
**O14 PENTHOUSE ELEVATION**

1/8" = 1'-0" A105



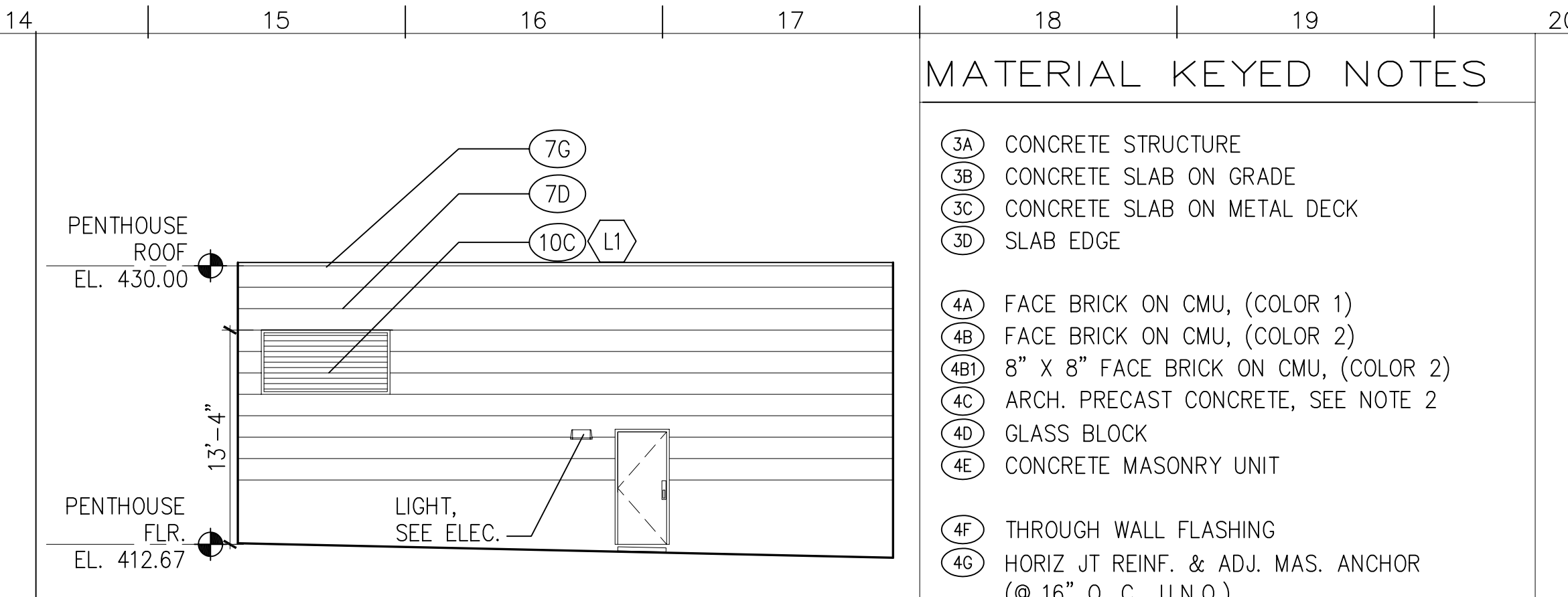
**L10 NOT USED**

3/8" = 1'-0" A1/A201



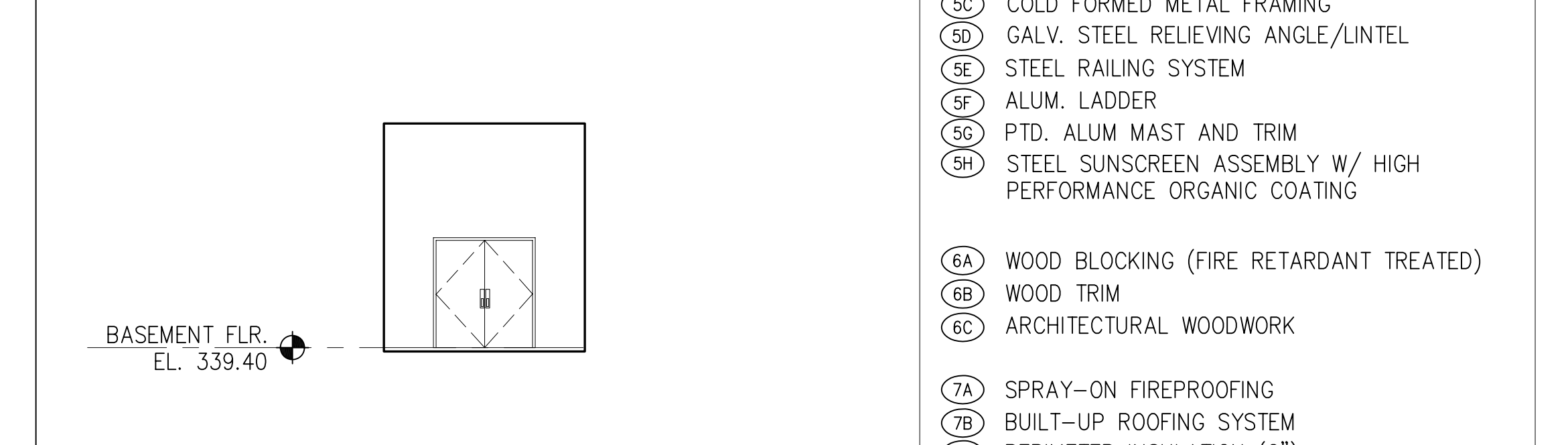
**F10 MAST ELEV. DETAIL**

3/8" = 1'-0" A1/A201



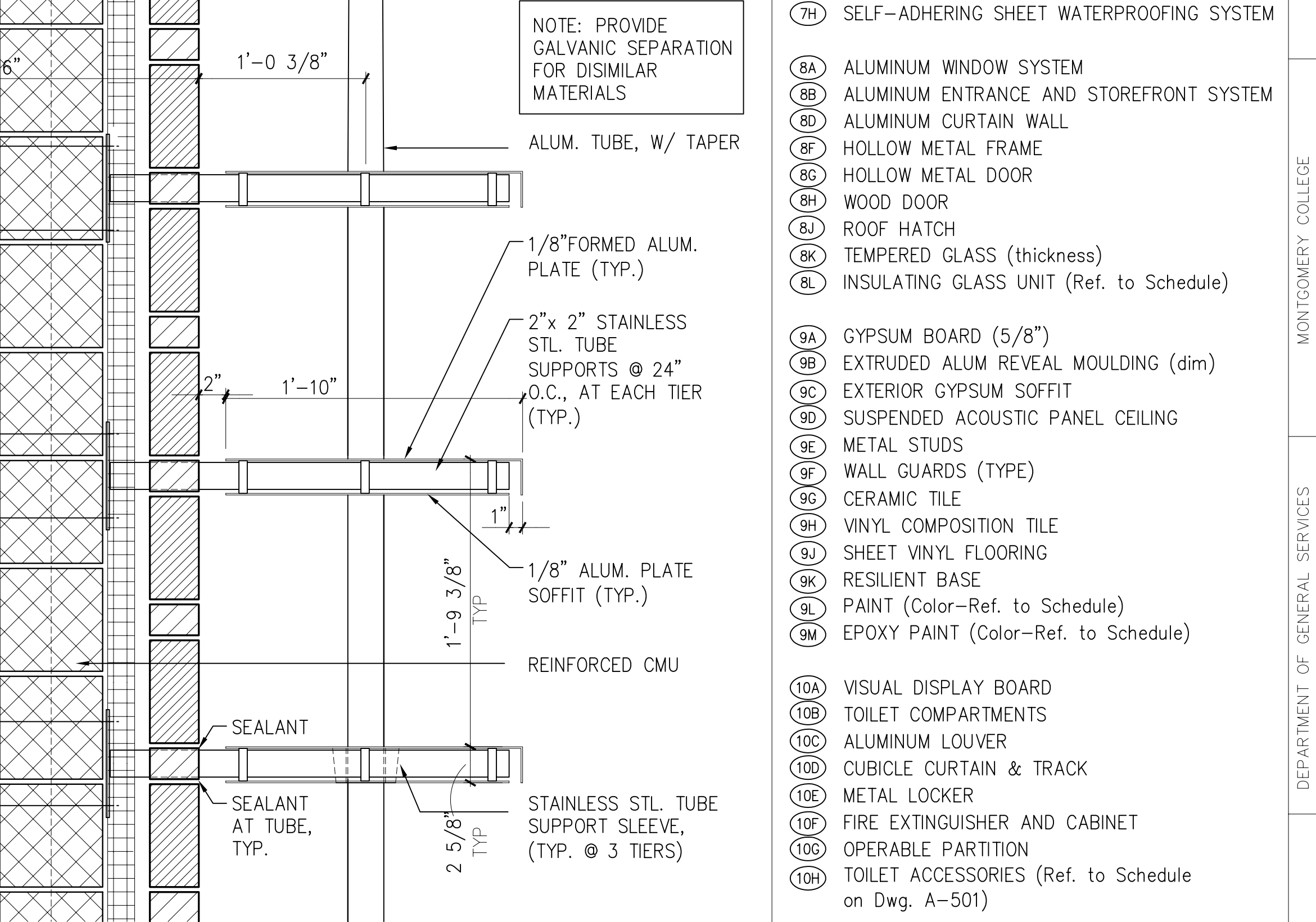
**L14 AREAWAY ELEVATION**

1/8" = 1'-0" A100



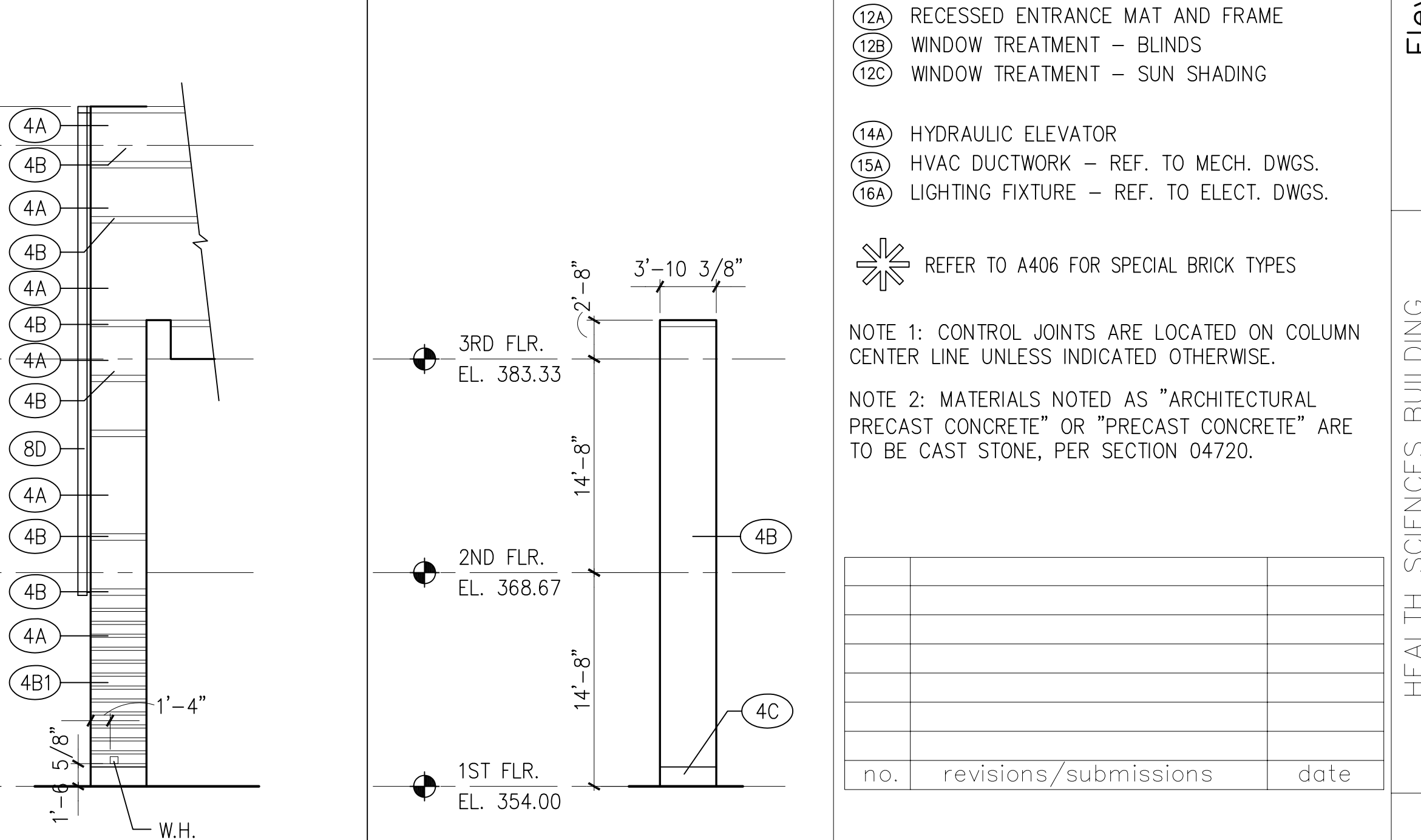
**F13 DETAIL AT MAST**

1 1/2" = 1'-0" F10/A203



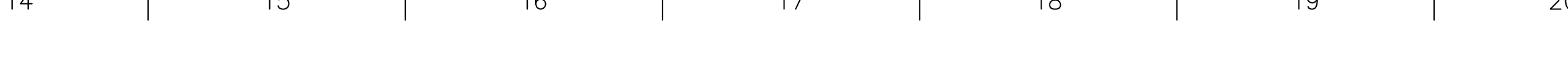
**A10 ELEVATION**

1/8" = 1'-0" A101, A102, A103, A104



**A13 ELEVATION**

1/8" = 1'-0" A101, A102, A103, A104

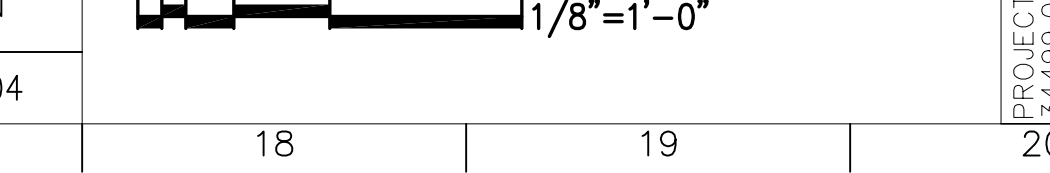


**A16 ELEVATION**

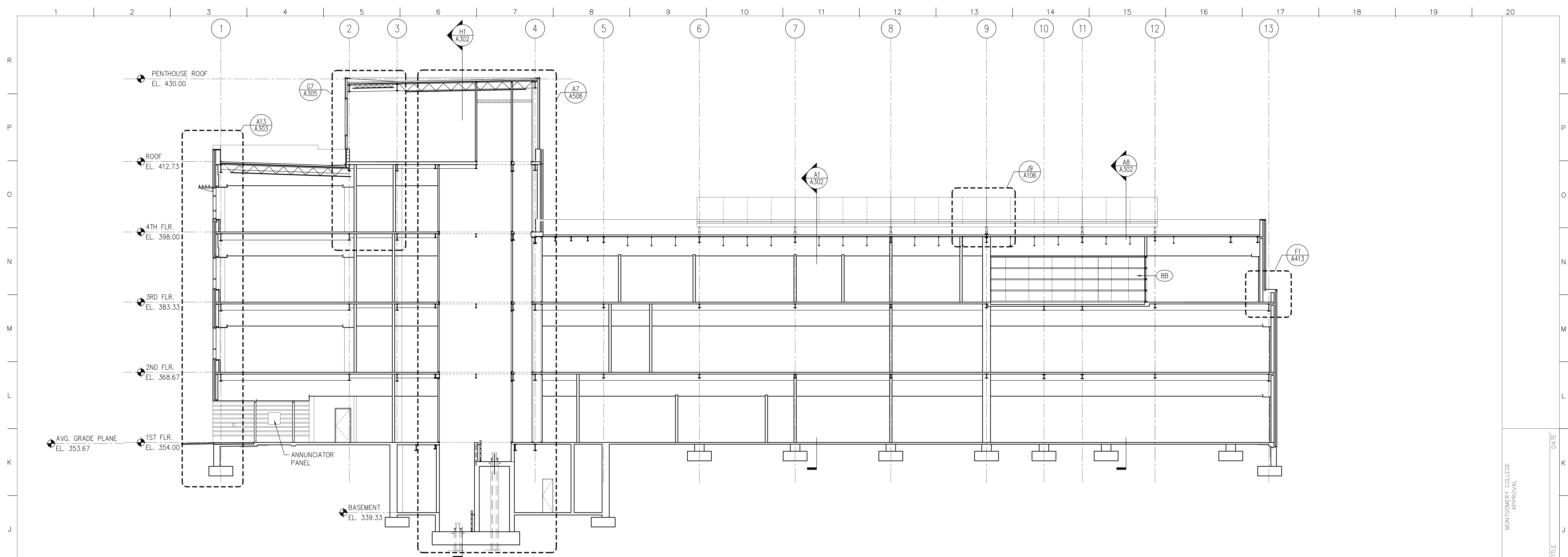
1/8" = 1'-0" A101, A102, A103, A104

**MATERIAL KEYED NOTES**

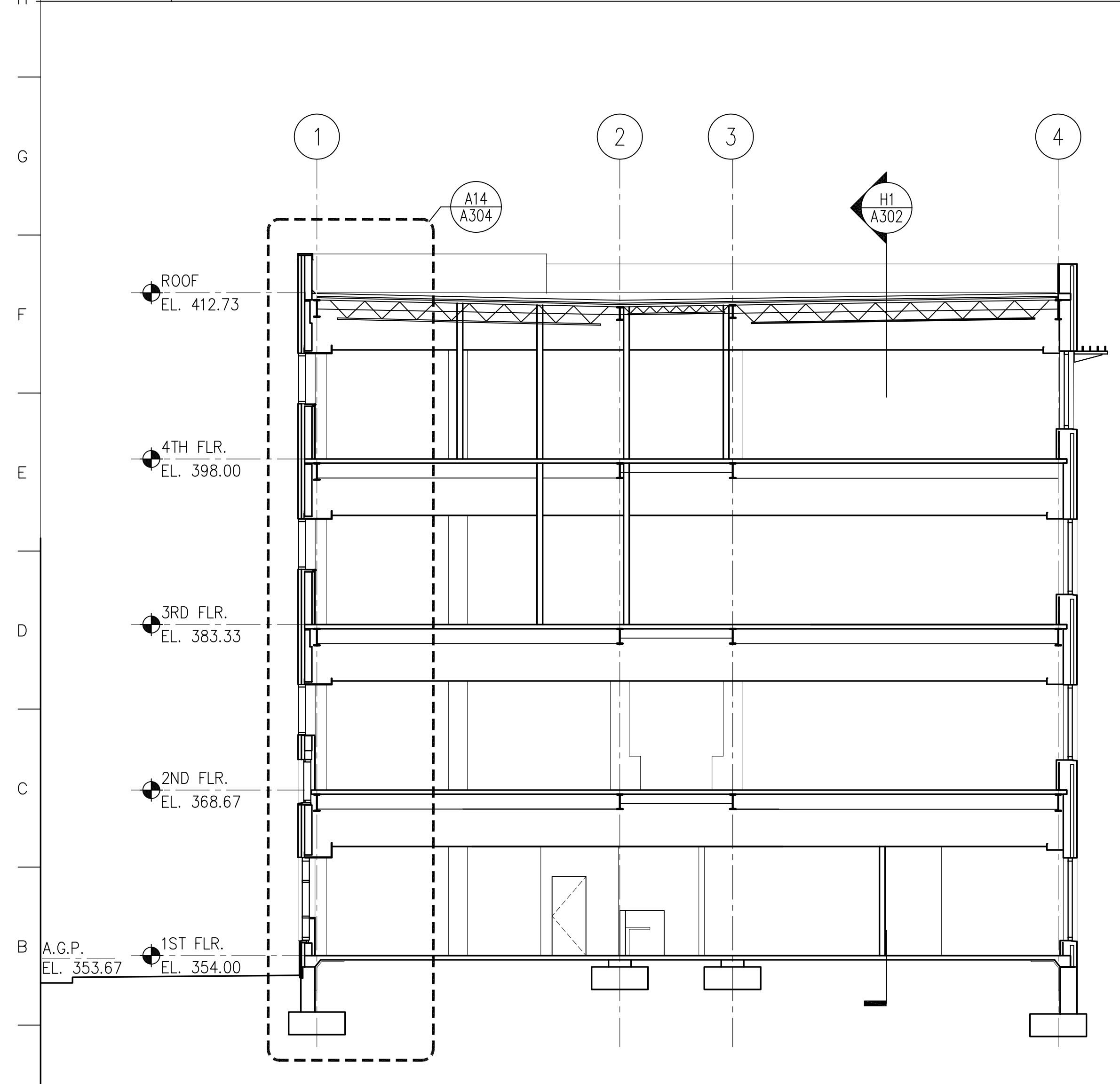
- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING FORMED ALUMINUM COPING
- 7G SELF-ADHERING SHEET WATERPROOFING SYSTEM
- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8I INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9J RESILIENT BASE
- 9K PAINT (Color-Ref. to Schedule)
- 9L EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.



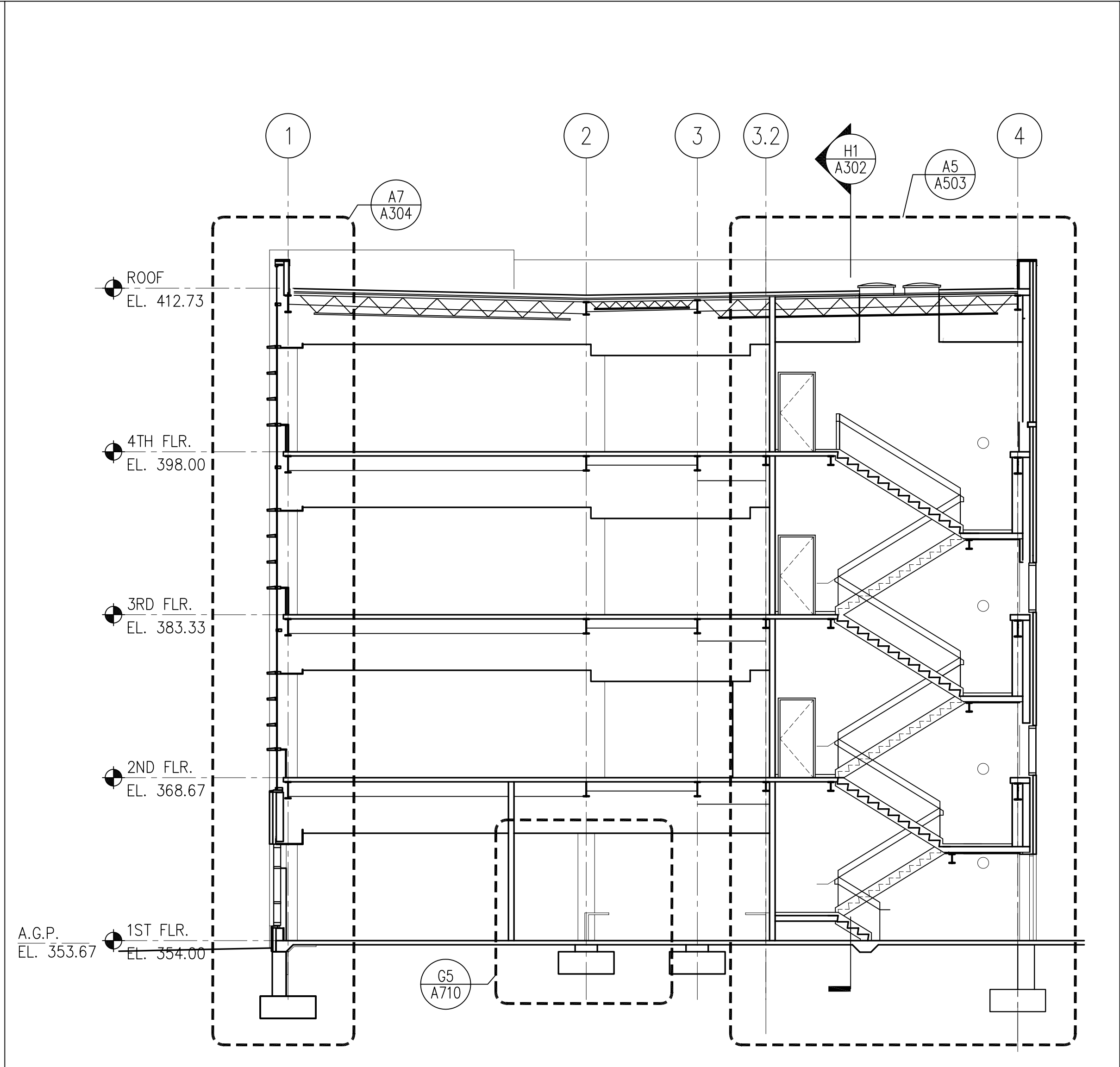
PROJECT NO.	DATE	PROJECT MANAGER	PROJ. MGT. & DESIGN	DATE	TITLE
34495.01	2/20/02				
<b>Elevations</b>					
MONTGOMERY COLLEGE					
MONTGOMERY COLLEGE					
SILVER SPRING, MARYLAND					
PROJECT # CC-01-MC-97/98-318					
HEALTH SCIENCES BUILDING					
MONTGOMERY COLLEGE					
13th Election District					
Montgomery County, Maryland					
no.		revisions/submissions		date	



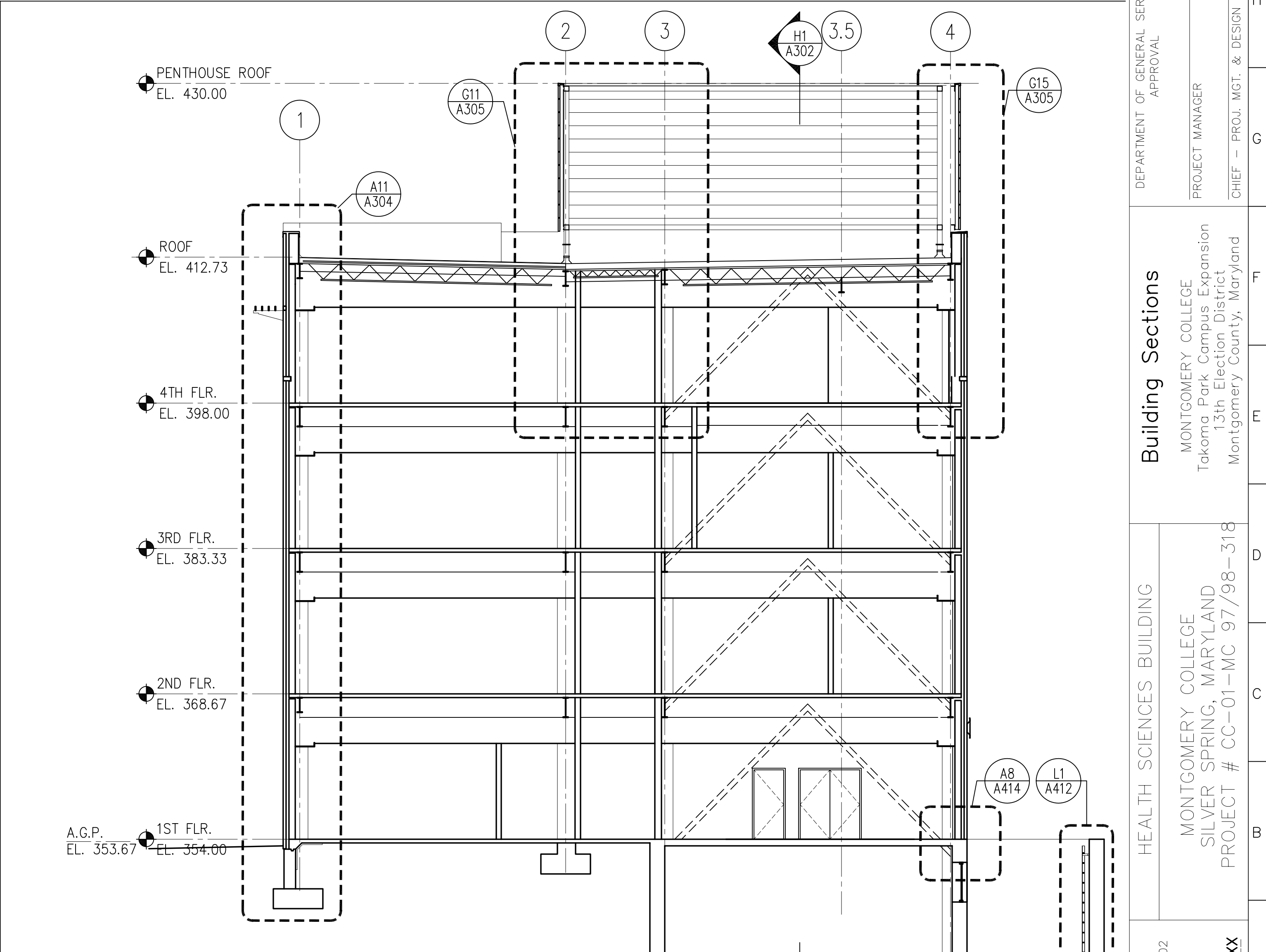
**H1 SECTION**  
 1/8"=1'-0"  
 A100, A101, A102, A103, A104, A105



**A1 SECTION**  
 1/8"=1'-0"  
 A100, A101, A102, A103, A104, A105



**A7 SECTION**  
 1/8"=1'-0"  
 A100, A101, A102, A103, A104, A105

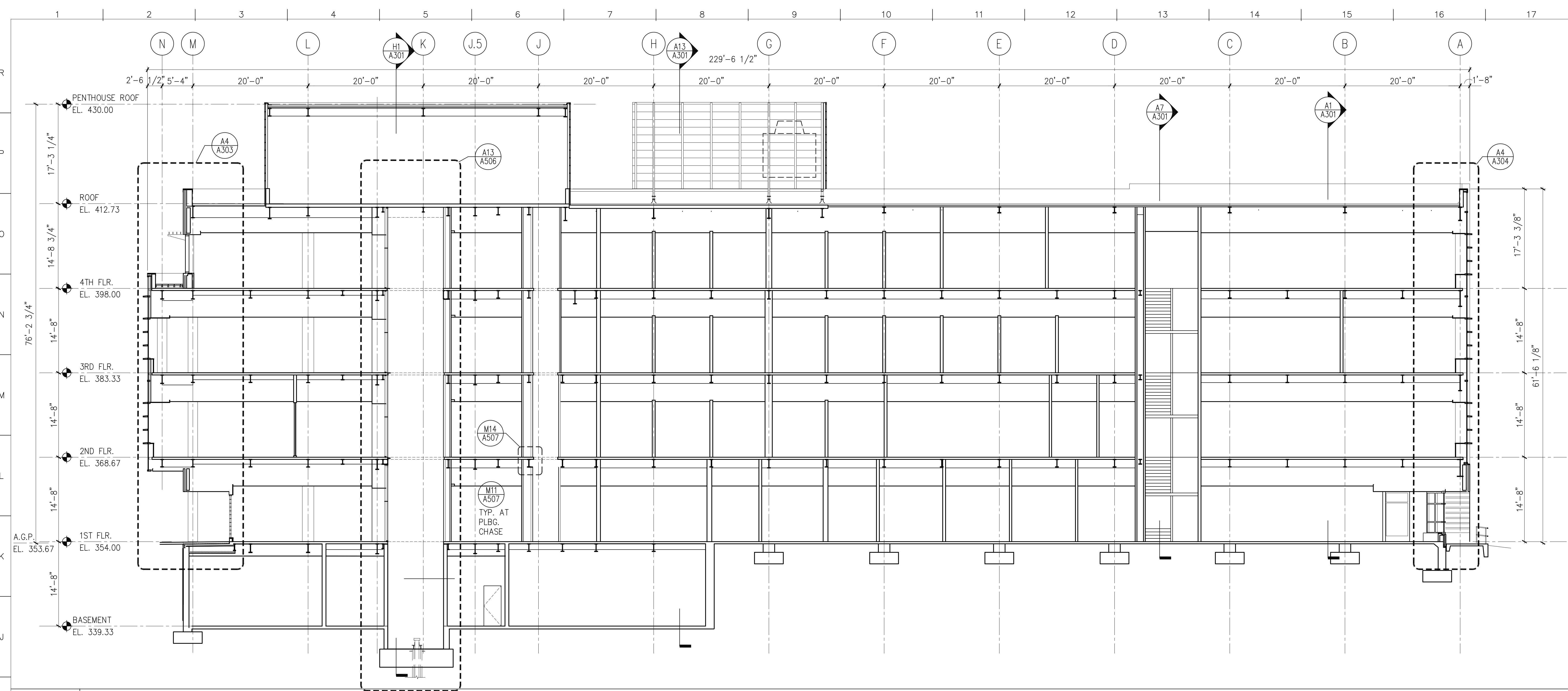


**A13 SECTION**  
 1/8"=1'-0"  
 A100, A101, A102, A103, A104, A105

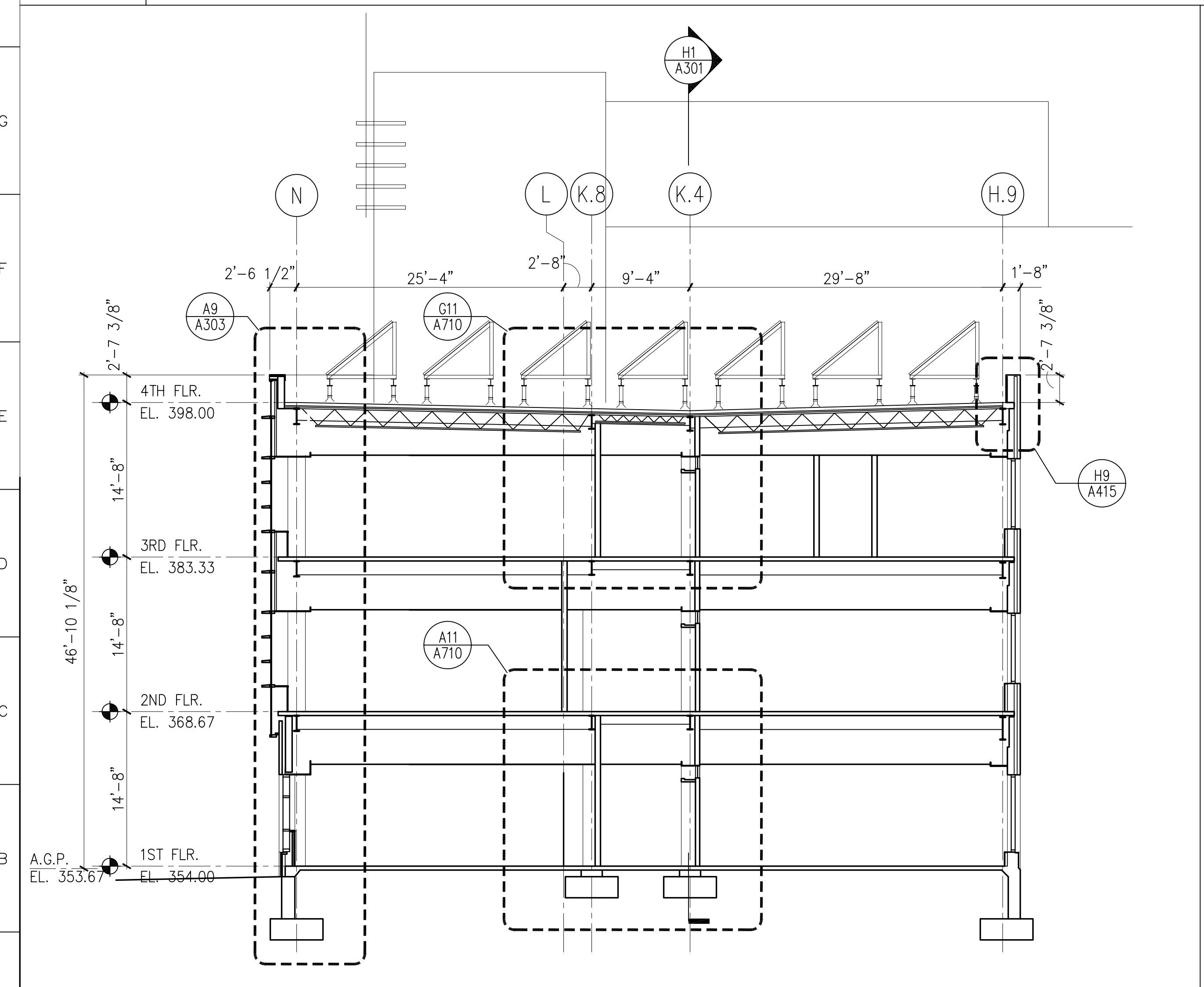
PROJECT NO. 34495.01	DATE 2/20/02	<b>A301</b>	SHEET X OF XX
HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC-977/98-318			
BUILDING SECTIONS MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland		PROJECT MANAGER	DATE
DEPARTMENT OF GENERAL SERVICES APPROVAL		CHIEF - PROJ. MGT. & DESIGN	DATE
MONTGOMERY COLLEGE APPROVAL		TITLE	DATE

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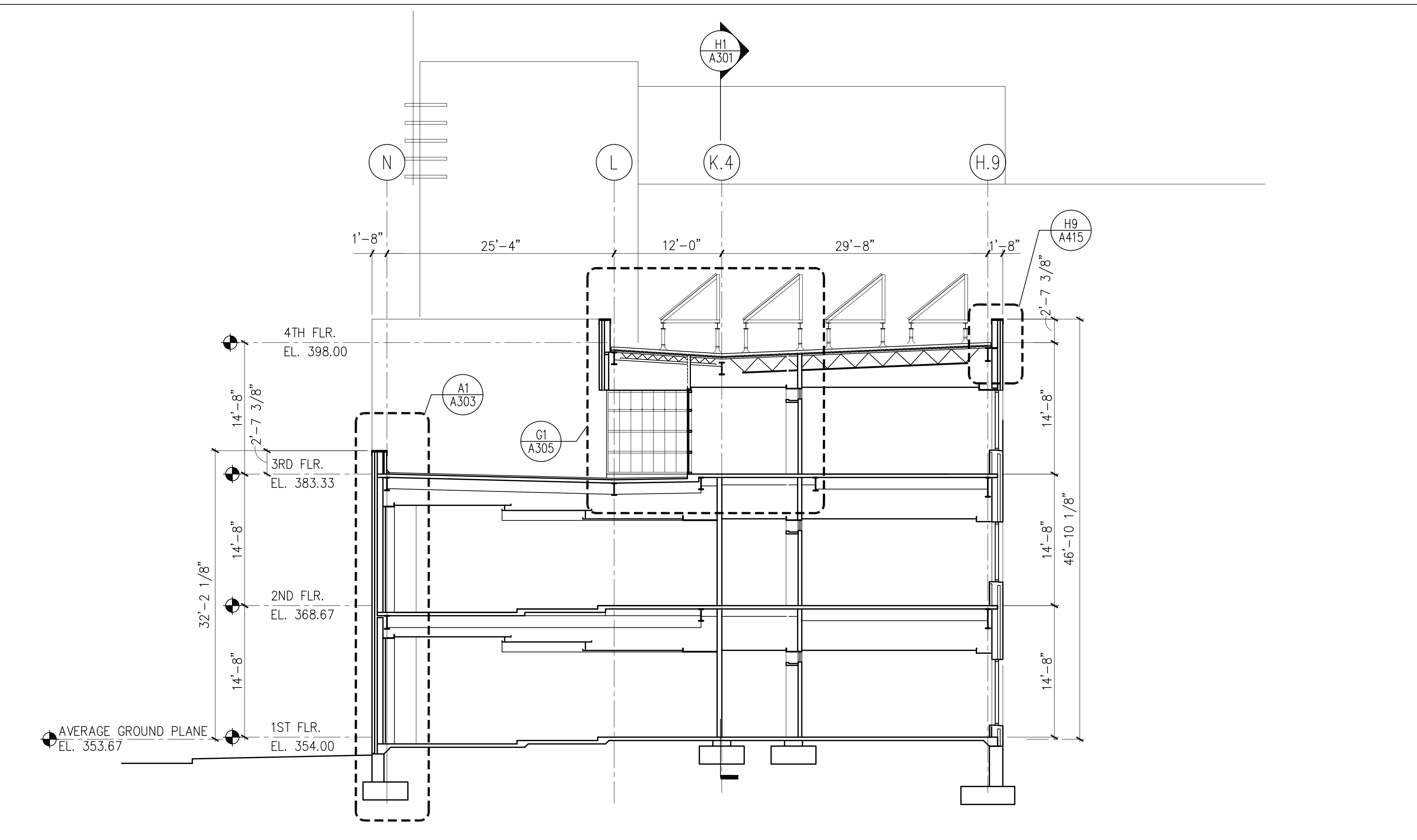




**H1 SECTION**  
1/8"=1'-0"  
A100, A101, A102, A103, A104, A105



**A1 SECTION**  
1/8"=1'-0"  
A100, A101, A102, A103, A104, A105



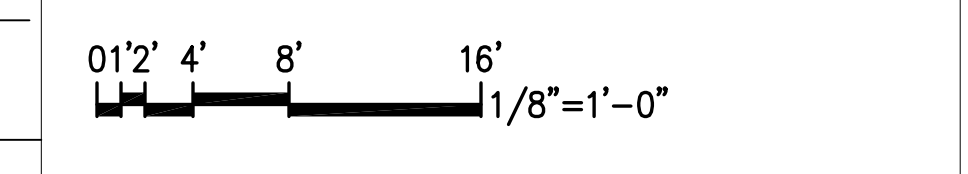
**A8 SECTION**  
1/8"=1'-0"  
A100, A101, A102, A103, A104, A105

**MATERIAL KEYED NOTES**

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ. JT REINF. & ADJ. MAS. ANCHOR @ 16" O. C., U.N.O.
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM. MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM. REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9J) RESILIENT BASE
- (9K) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date



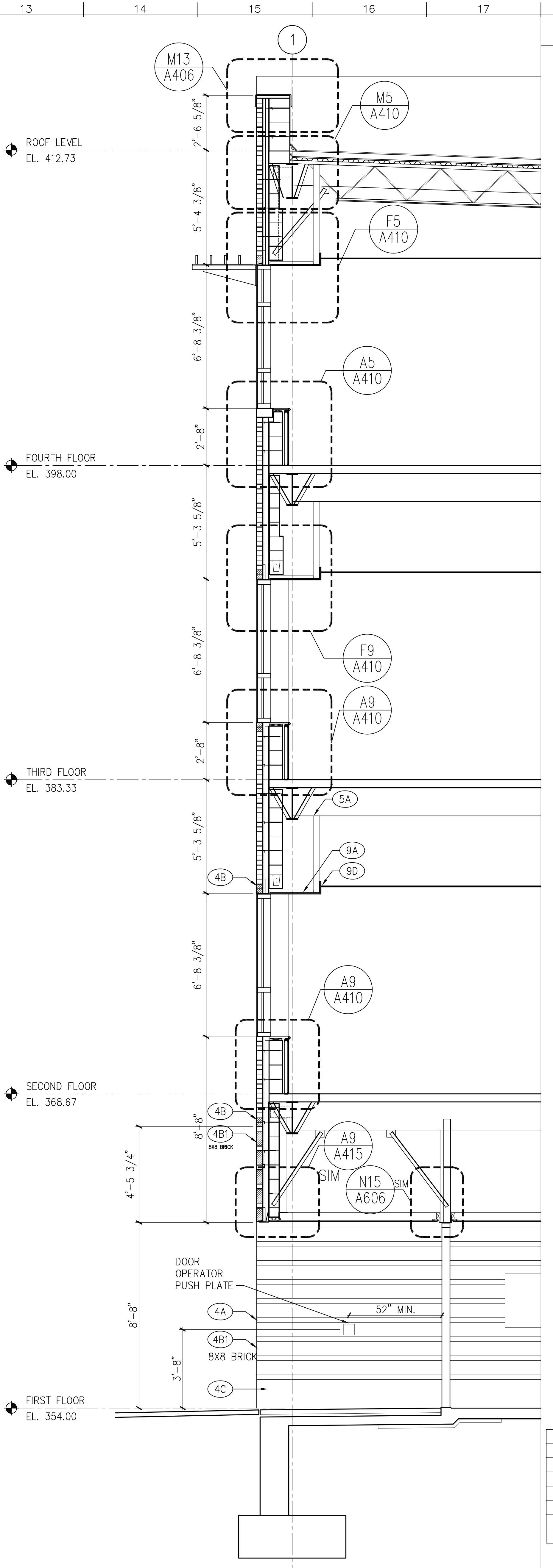
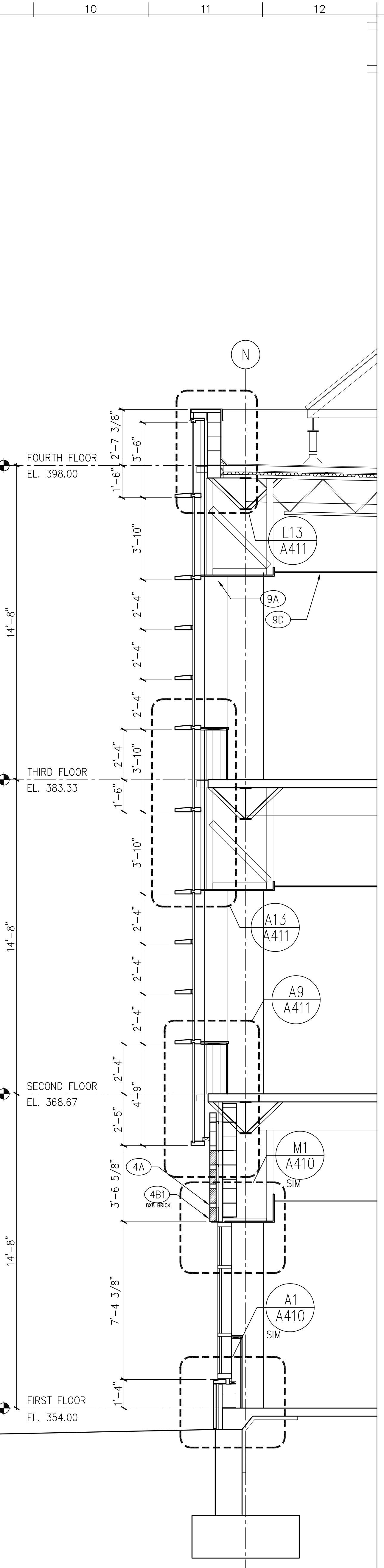
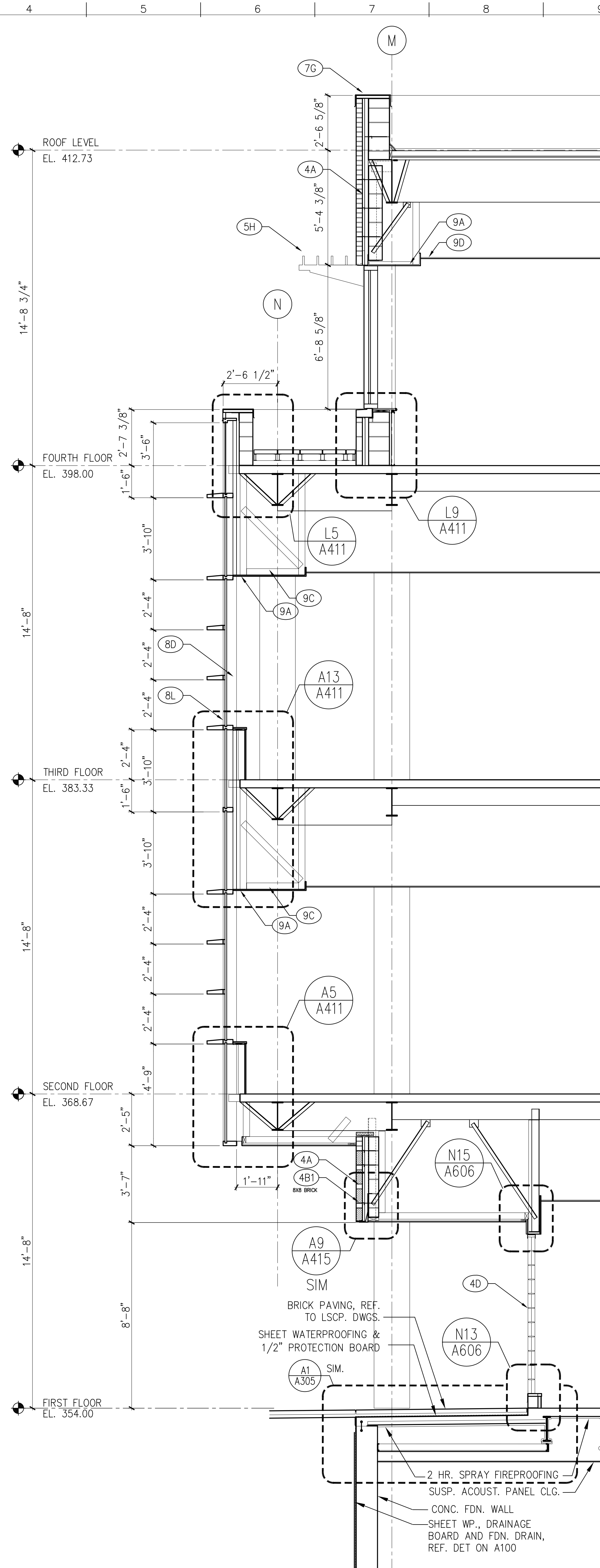
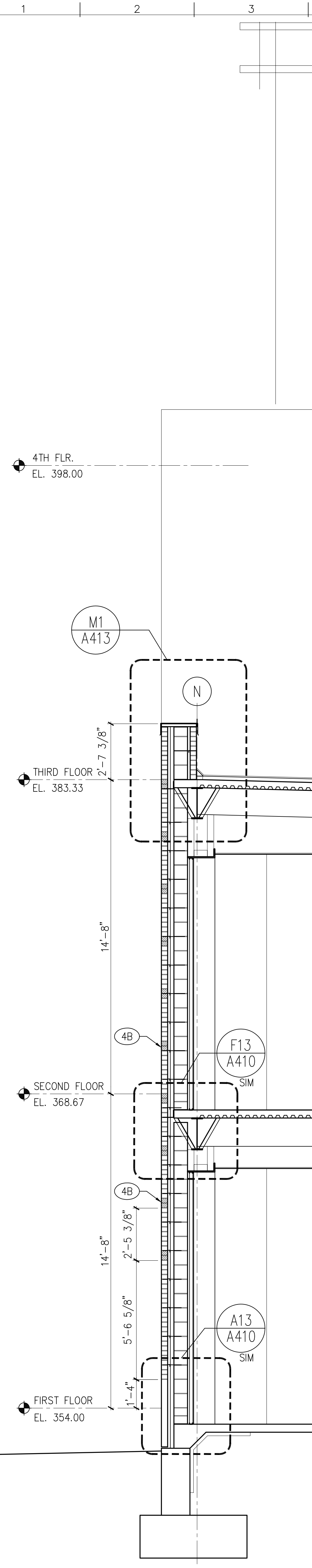
PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A302**  
 SHEET 1 OF 11

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

Building Sections  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

APPROVAL	DATE	TITLE
MONTGOMERY COLLEGE APPROVAL		
DEPARTMENT OF GENERAL SERVICES APPROVAL		
PROJECT MANAGER		
CHIEF - PROJ. MGT. & DESIGN		

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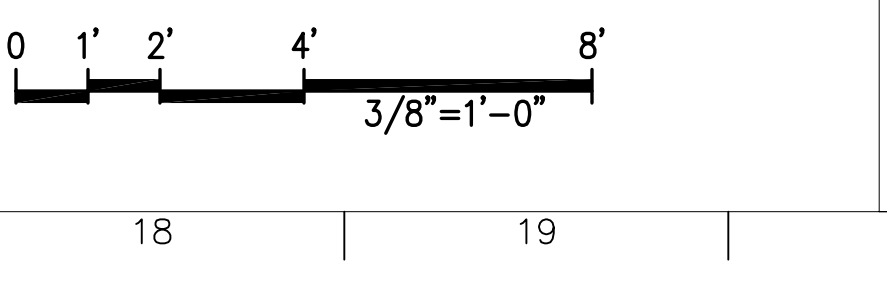
A1 WALL SECTION  
3/8"=1'-0"  
A8/A302

A4 WALL SECTION  
3/8"=1'-0"  
H1/A302

A9 WALL SECTION  
3/8"=1'-0"  
A1/A302

A13 WALL SECTION  
3/8"=1'-0"  
H1/A301

no.	revisions/submissions	date



HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

WALL SECTIONS  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

PROJECT MANAGER  
DATE

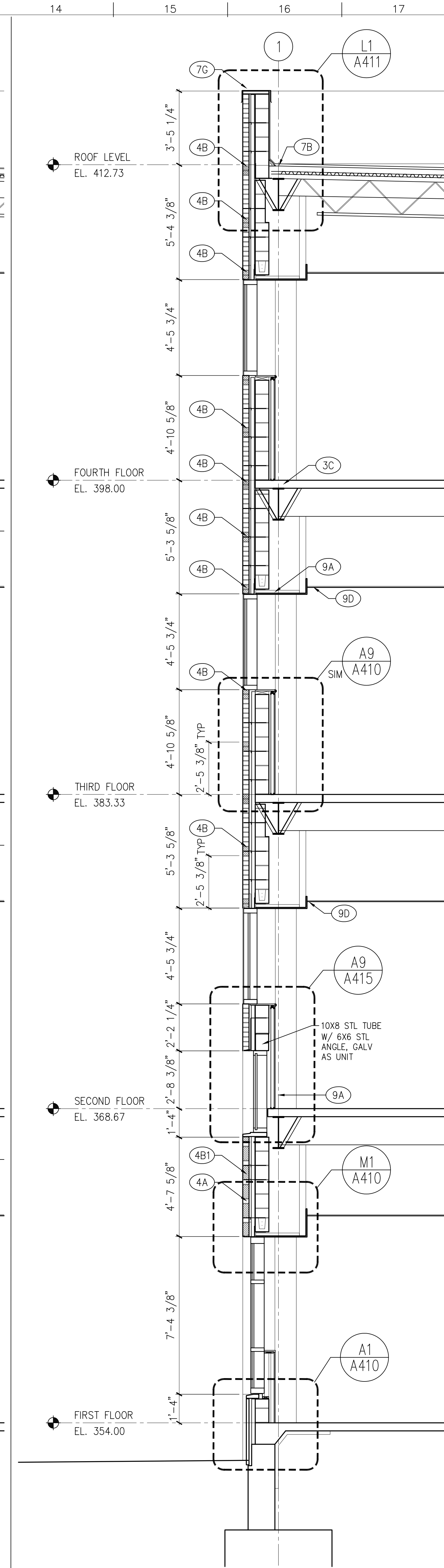
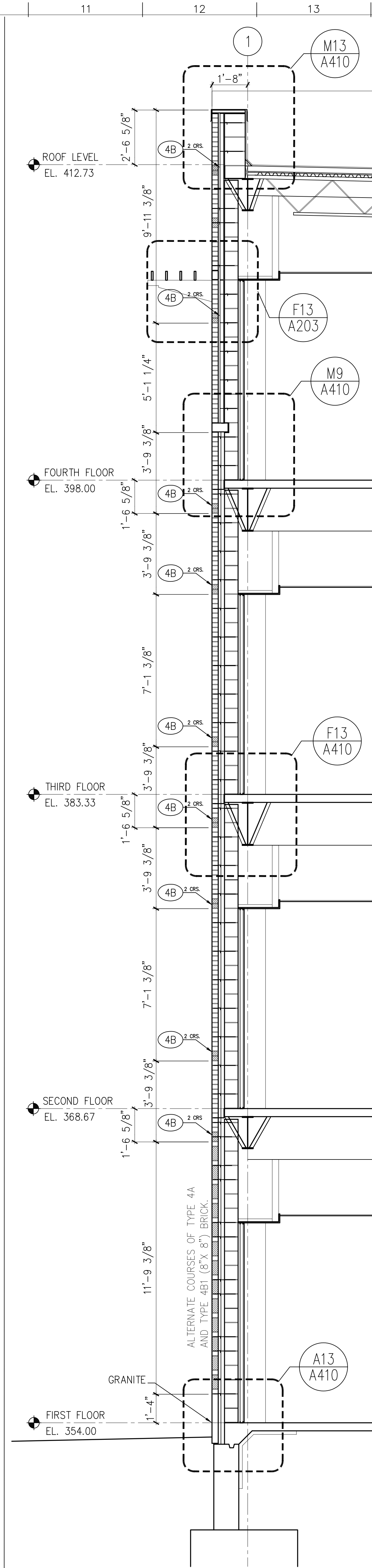
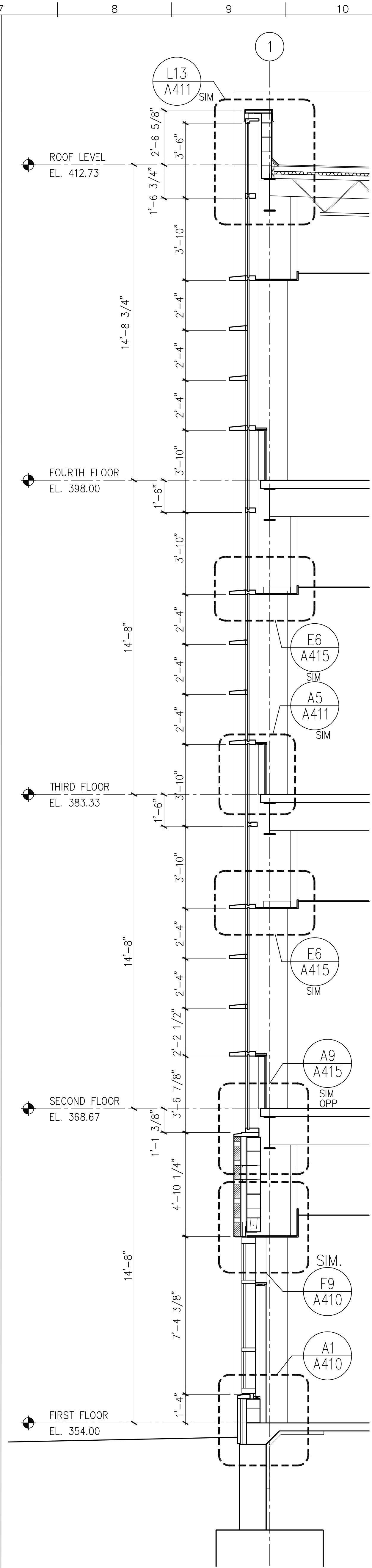
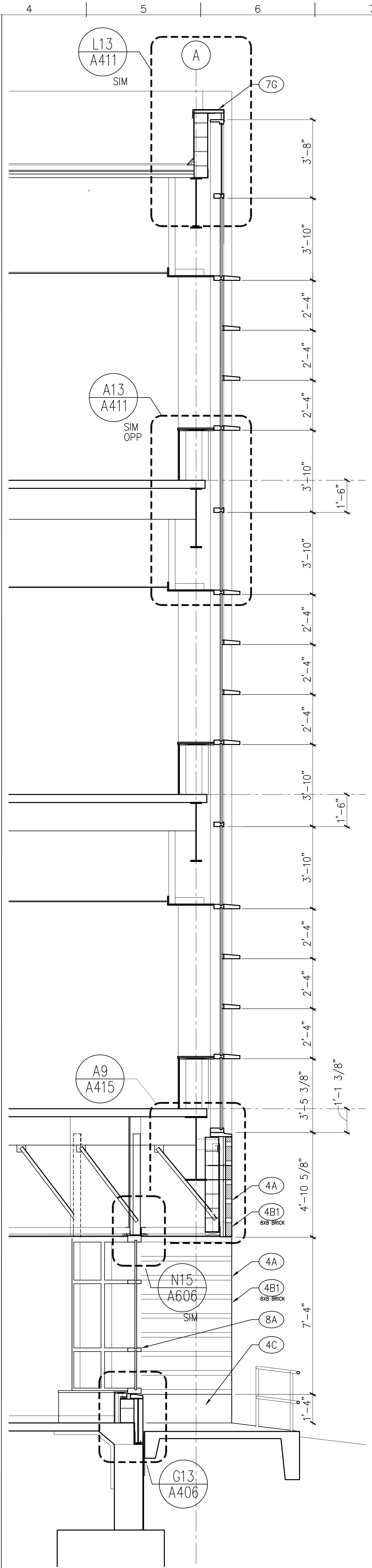
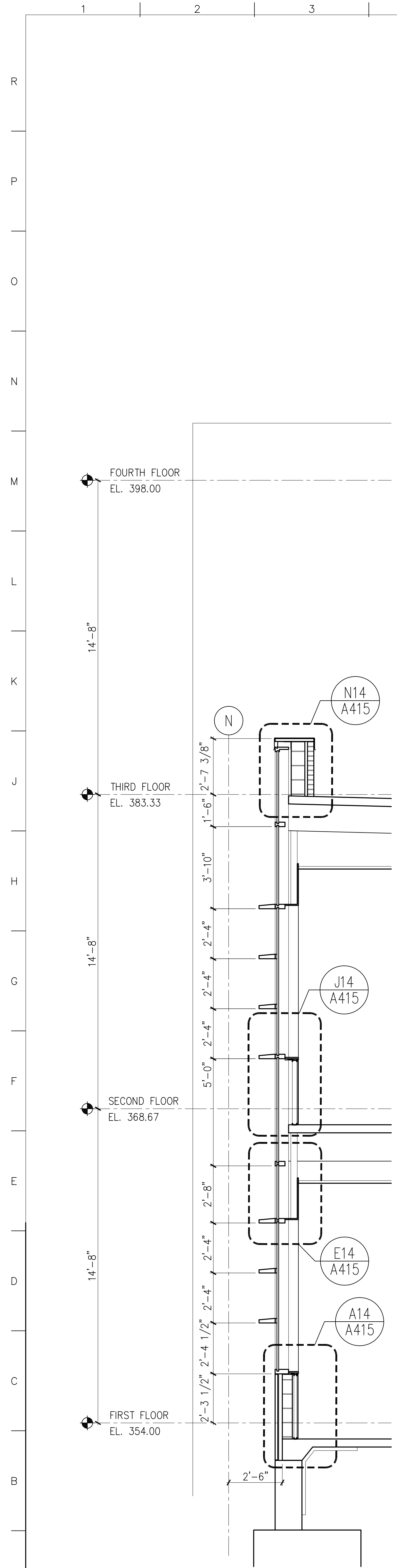
CHIEF - PROJ. MGT. & DESIGN  
DATE

TITLE  
DATE

APPROVAL  
MONTGOMERY COLLEGE  
APPROVAL

PROJECT NO.  
34495.01  
DATE: 2/20/02

A303  
SHEET X OF XX



- MATERIAL KEYED NOTES**
- (3A) CONCRETE STRUCTURE
  - (3B) CONCRETE SLAB ON GRADE
  - (3C) CONCRETE SLAB ON METAL DECK
  - (3D) SLAB EDGE
  - (4A) FACE BRICK ON CMU, (COLOR 1)
  - (4B) FACE BRICK ON CMU, (COLOR 2)
  - (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
  - (4D) GLASS BLOCK
  - (4E) CONCRETE MASONRY UNIT
  - (4F) THROUGH WALL FLASHING
  - (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
  - (4H) CAVITY WALL INSULATION (2" U.N.O.)
  - (5A) STRUCTURAL STEEL
  - (5B) METAL DECK
  - (5C) COLD FORMED METAL FRAMING
  - (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
  - (5E) STEEL LADDER SYSTEM
  - (5F) ALUM. LADDER
  - (5G) PTD. ALUM MAST AND TRIM
  - (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
  - (6B) WOOD TRIM
  - (6C) ARCHITECTURAL WOODWORK
  - (7A) SPRAY-ON FIREPROOFING
  - (7B) BUILT-UP ROOFING SYSTEM
  - (7C) PERIMETER INSULATION (2")
  - (7D) INSULATED METAL PANEL
  - (7E) METAL FLASHING
  - (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - (7G) FORMED ALUMINUM COPING
  - (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - (8A) ALUMINUM WINDOW SYSTEM
  - (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - (8C) ALUMINUM CURTAIN WALL
  - (8D) HOLLOW METAL FRAME
  - (8E) HOLLOW METAL DOOR
  - (8F) WOOD DOOR
  - (8G) ROOF HATCH
  - (8H) TEMPERED GLASS (thickness)
  - (8I) INSULATING GLASS UNIT (Ref. to Schedule)
  - (9A) GYPSUM BOARD (5/8")
  - (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
  - (9C) EXTERIOR GYPSUM SOFFIT
  - (9D) SUSPENDED ACOUSTIC PANEL CEILING
  - (9E) METAL STUDS
  - (9F) WALL GUARDS (TYPE)
  - (9G) CERAMIC TILE
  - (9H) VINYL COMPOSITION TILE
  - (9I) SHEET VINYL FLOORING
  - (9J) RESILIENT BASE
  - (9K) PAINT (Color-Ref. to Schedule)
  - (9L) EPOXY PAINT (Color-Ref. to Schedule)
  - (10A) VISUAL DISPLAY BOARD
  - (10B) TOILET COMPARTMENTS
  - (10C) ALUMINUM LOUVER
  - (10D) CUBICLE CURTAIN & TRACK
  - (10E) METAL LOCKER
  - (10F) FIRE EXTINGUISHER AND CABINET
  - (10G) OPERABLE PARTITION
  - (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - (11A) RECESSED, MOTORIZED PROJECTION SCREEN
  - (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - (12A) RECESSED ENTRANCE MAT AND FRAME
  - (12B) WINDOW TREATMENT - BLINDS
  - (12C) WINDOW TREATMENT - SUN SHADING
  - (14A) HYDRAULIC ELEVATOR
  - (14B) HVAC DUCTWORK - REF. TO MECH. DWGS.
  - (14C) LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES

**A1 CURT. WALL; LECTURE RM**  
 3/8"=1'-0"  
 A101, A102, A103

**A4 WALL SECTION**  
 3/8"=1'-0"  
 H1/A302

**A7 WALL SECTION**  
 3/8"=1'-0"  
 A7/A301

**A11 WALL SEC/TYP. COURSING**  
 3/8"=1'-0"  
 A13/A301

**A14 WALL SECTION**  
 3/8"=1'-0"  
 A1/A301

0' 1' 2' 4' 8'  
 3/8"=1'-0"

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

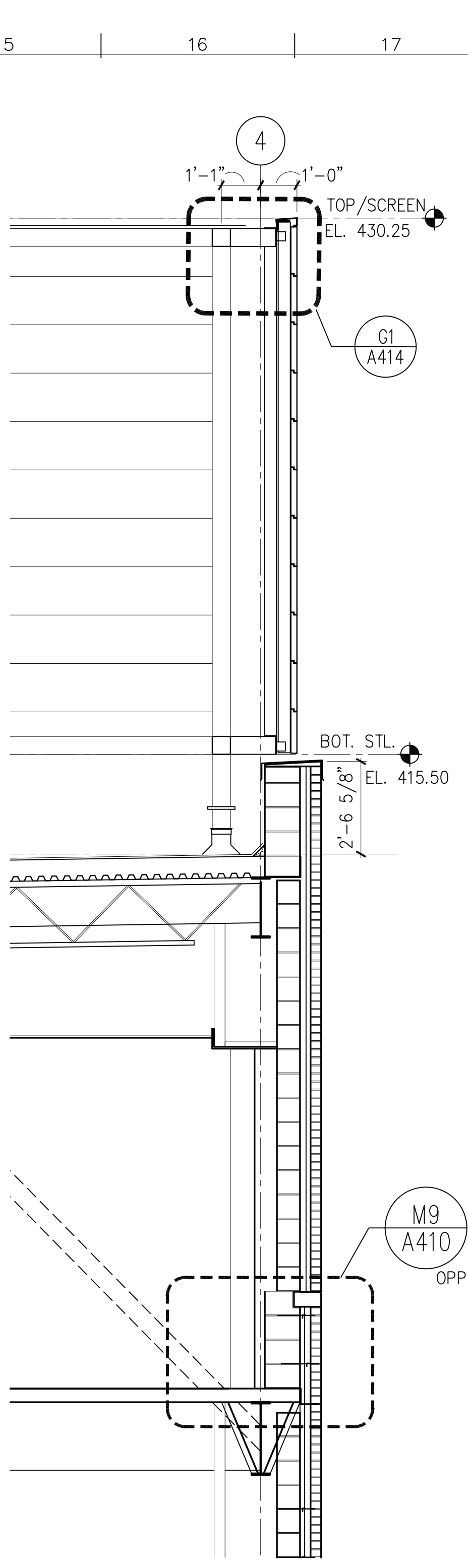
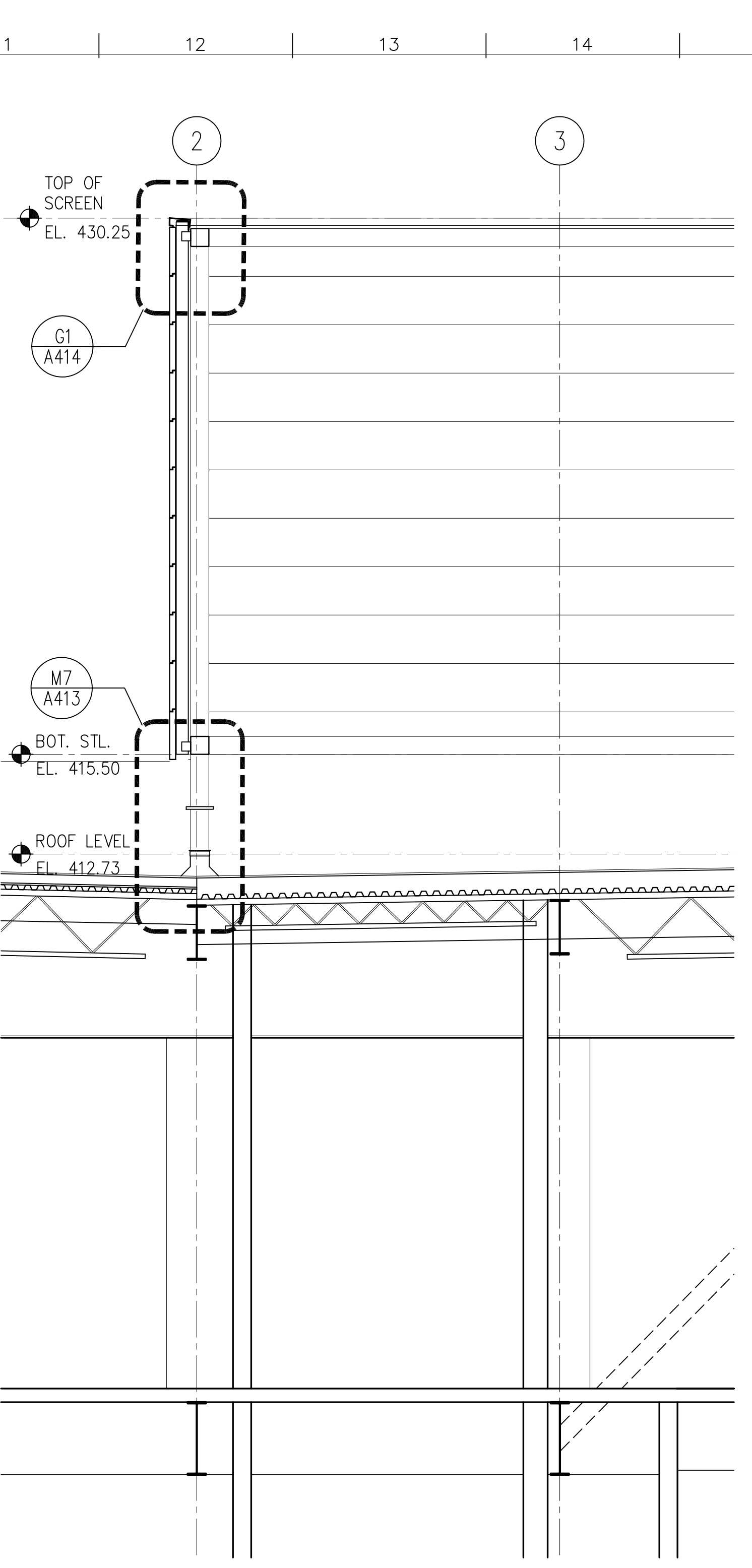
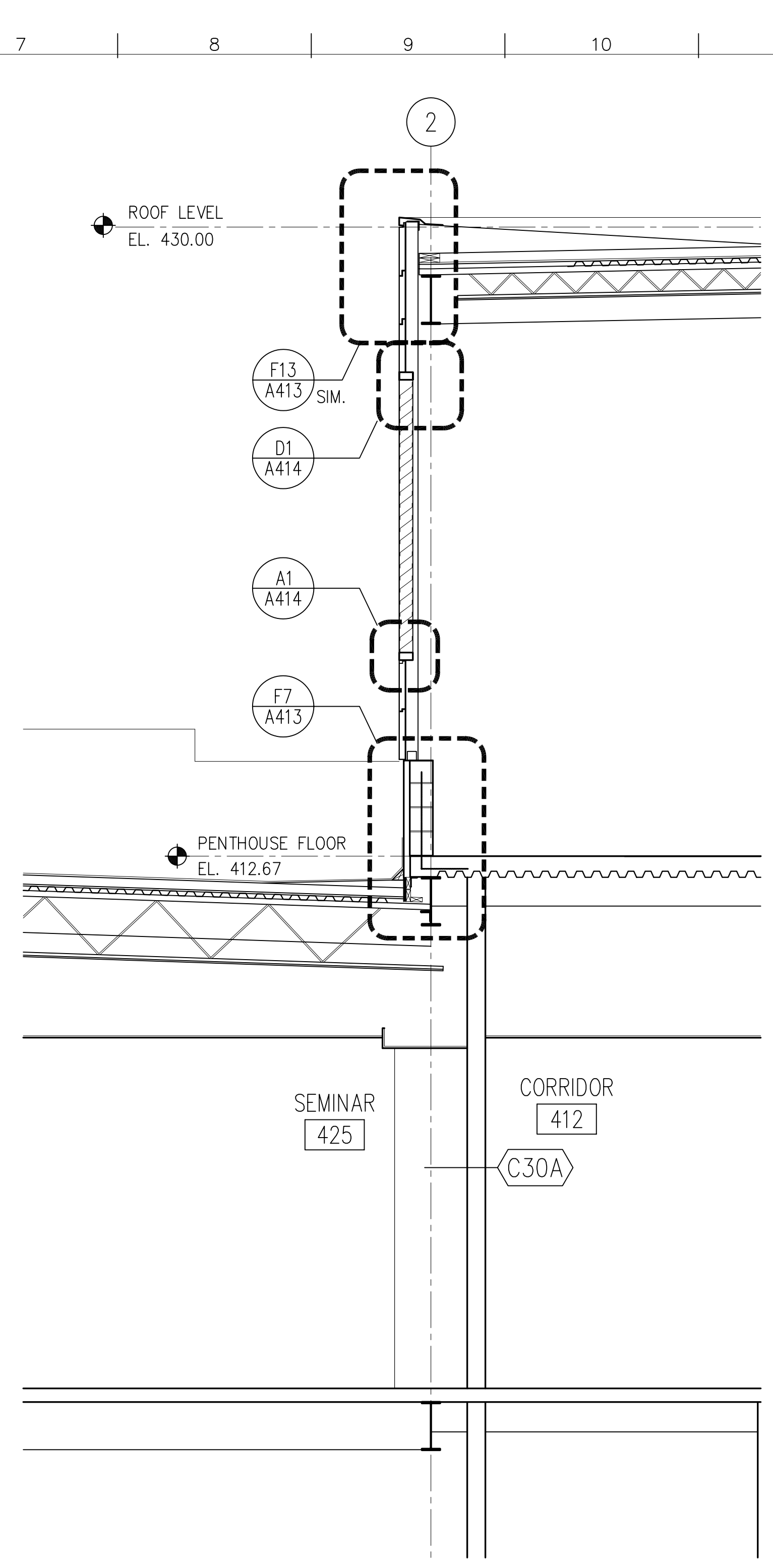
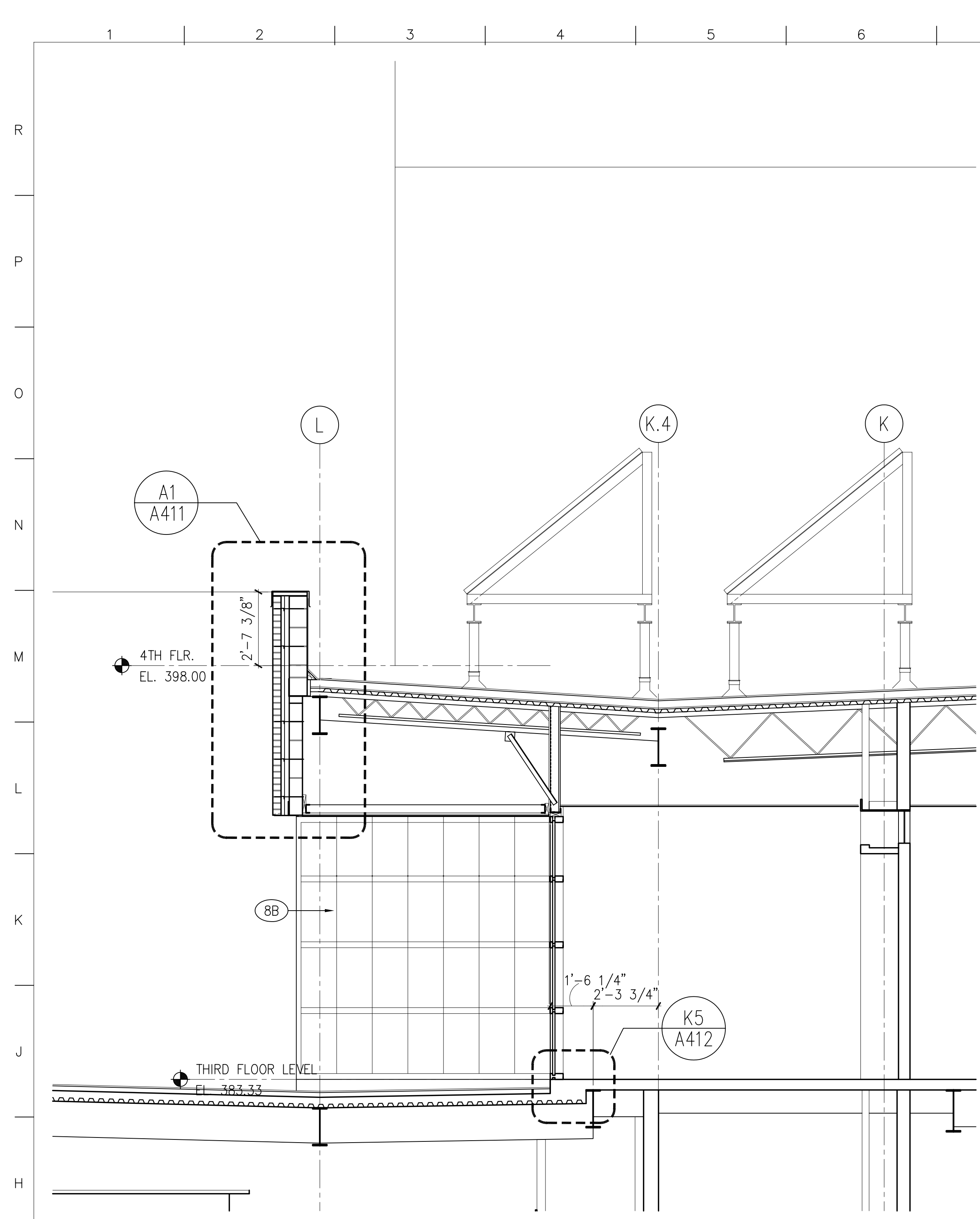
WALL SECTIONS

MONTGOMERY COLLEGE  
 APPROVAL

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL

PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A304**  
 SHEET 1 OF XX



**MATERIAL KEYED NOTES**

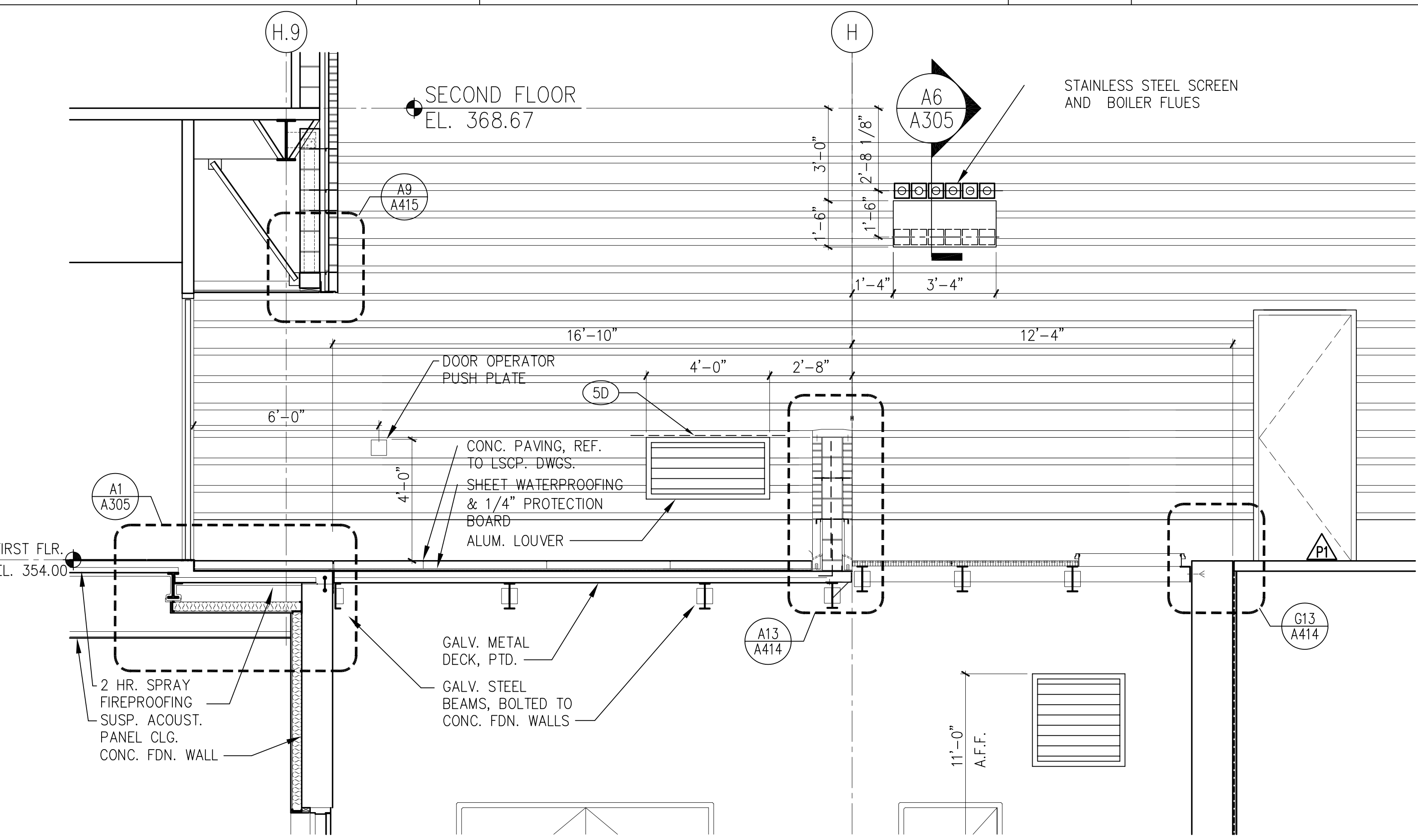
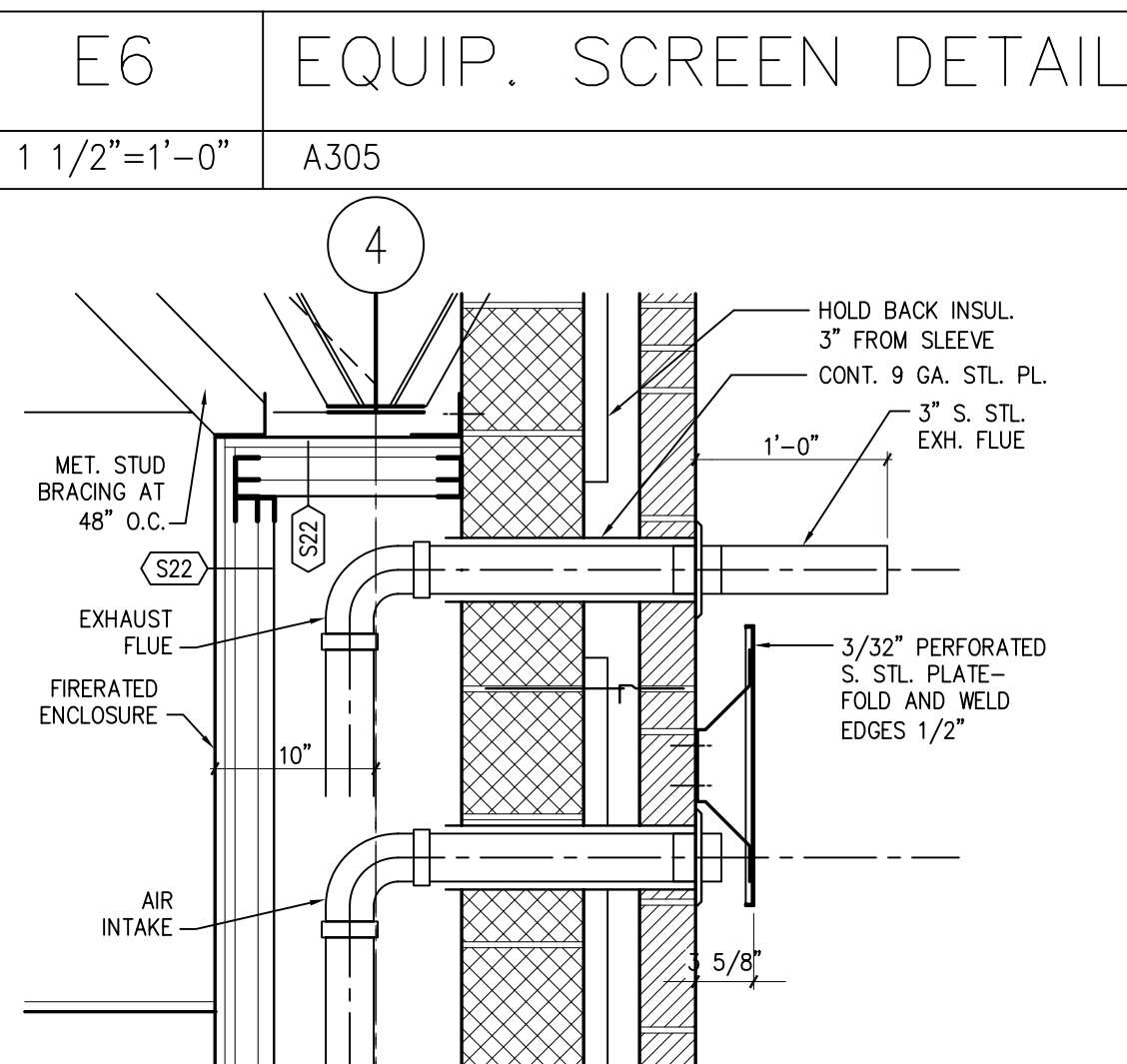
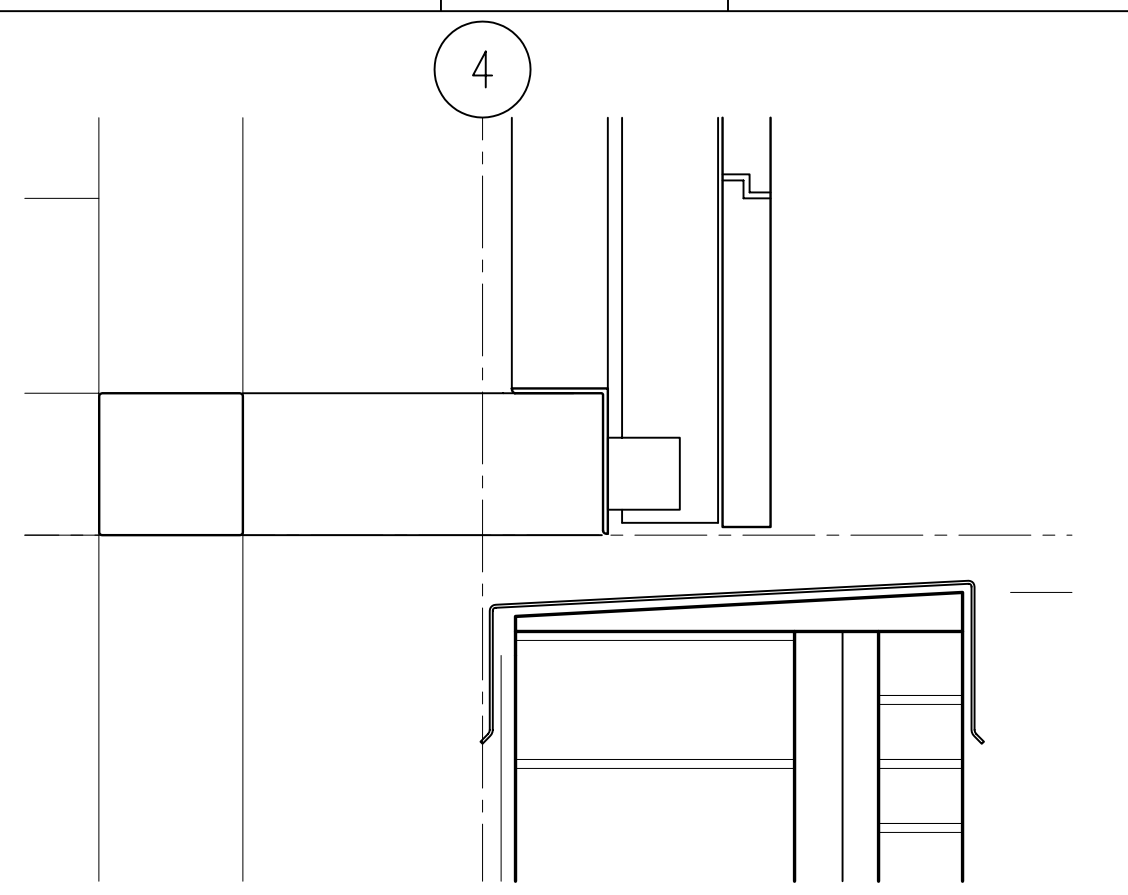
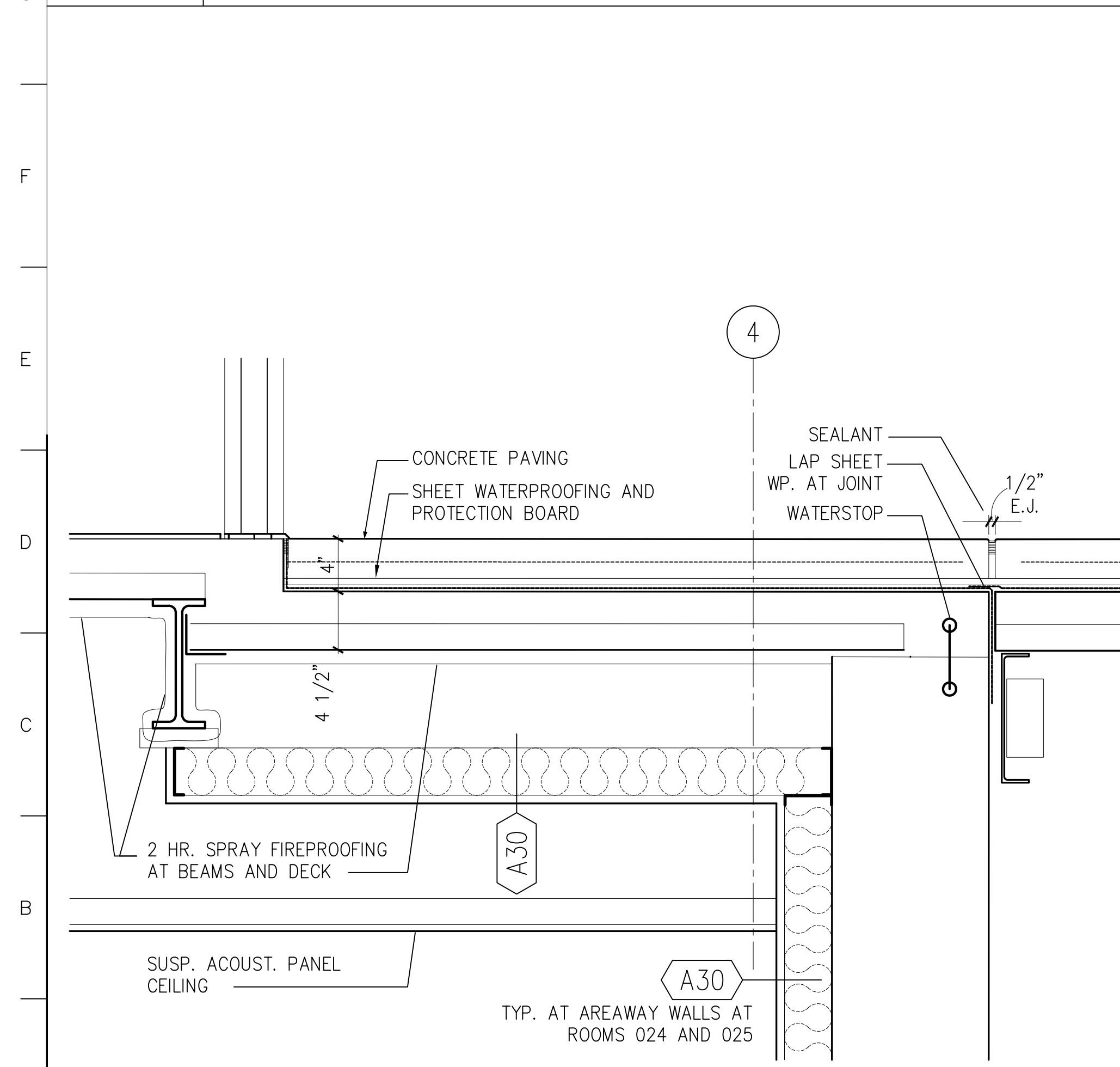
- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING FORMED ALUMINUM COPING
- (7G) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8L) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9K) RESILIENT BASE
- (9L) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

**G1 WALL SECTION**  
3/8"=1'-0" A8/A302

**G7 PENTHOUSE SECTION**  
3/8"=1'-0" H1/A301

**G11 WALL SECTION**  
3/8"=1'-0" A13/A301

**G15 WALL SECTION**  
3/8"=1'-0" A13/A301



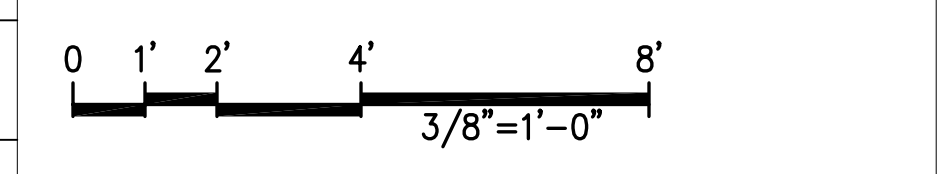
**A1 DETAIL AT WATERPROOF DECK**  
1 1/2"=1'-0" A305

**A6 FLUE EXH. DETAIL**  
1"=1'-0" A305

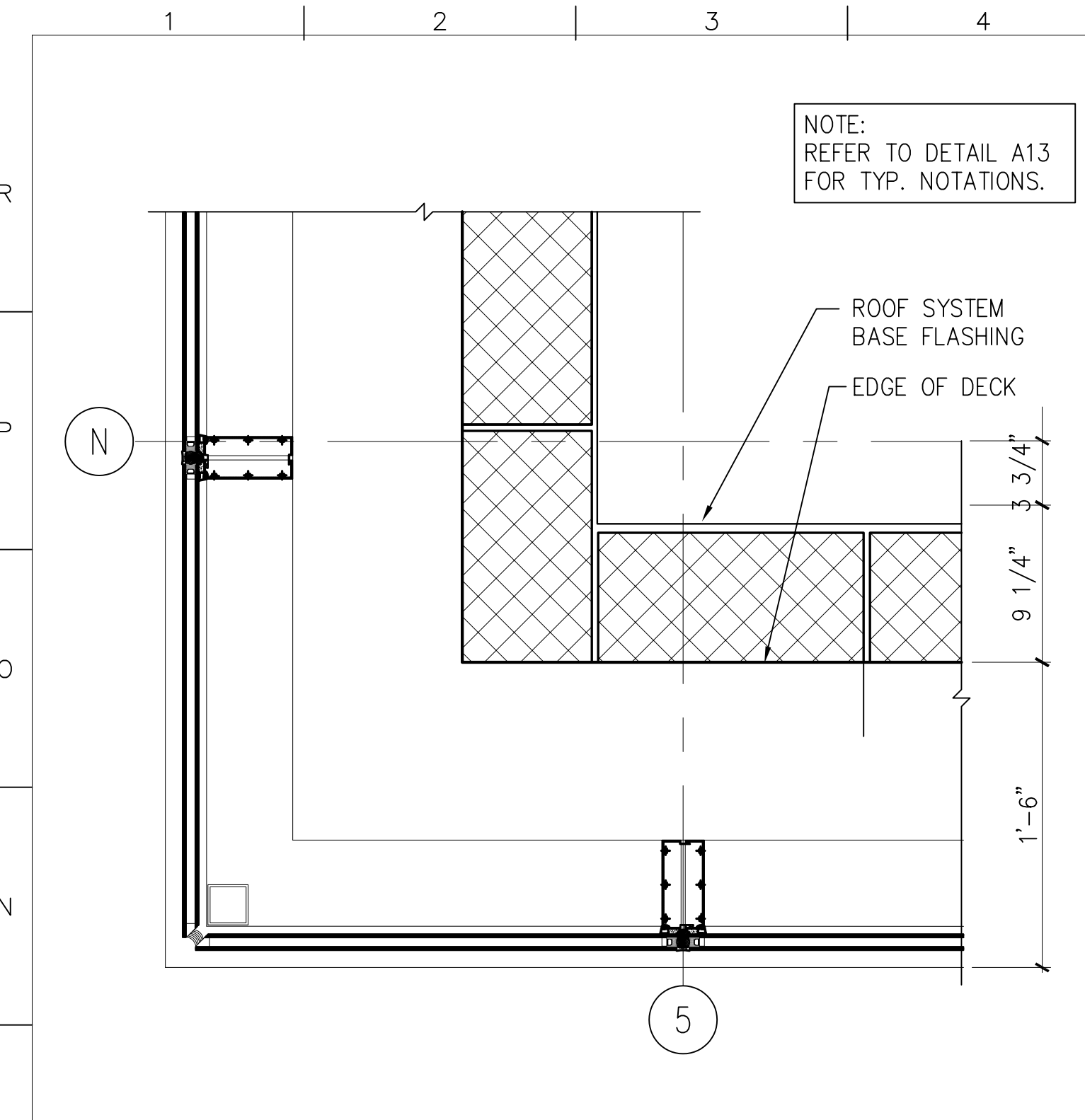
**A9 AREAWAY SECTION**  
3/8"=1'-0" A100, A101

REFER TO A406 FOR SPECIAL BRICK TYPES

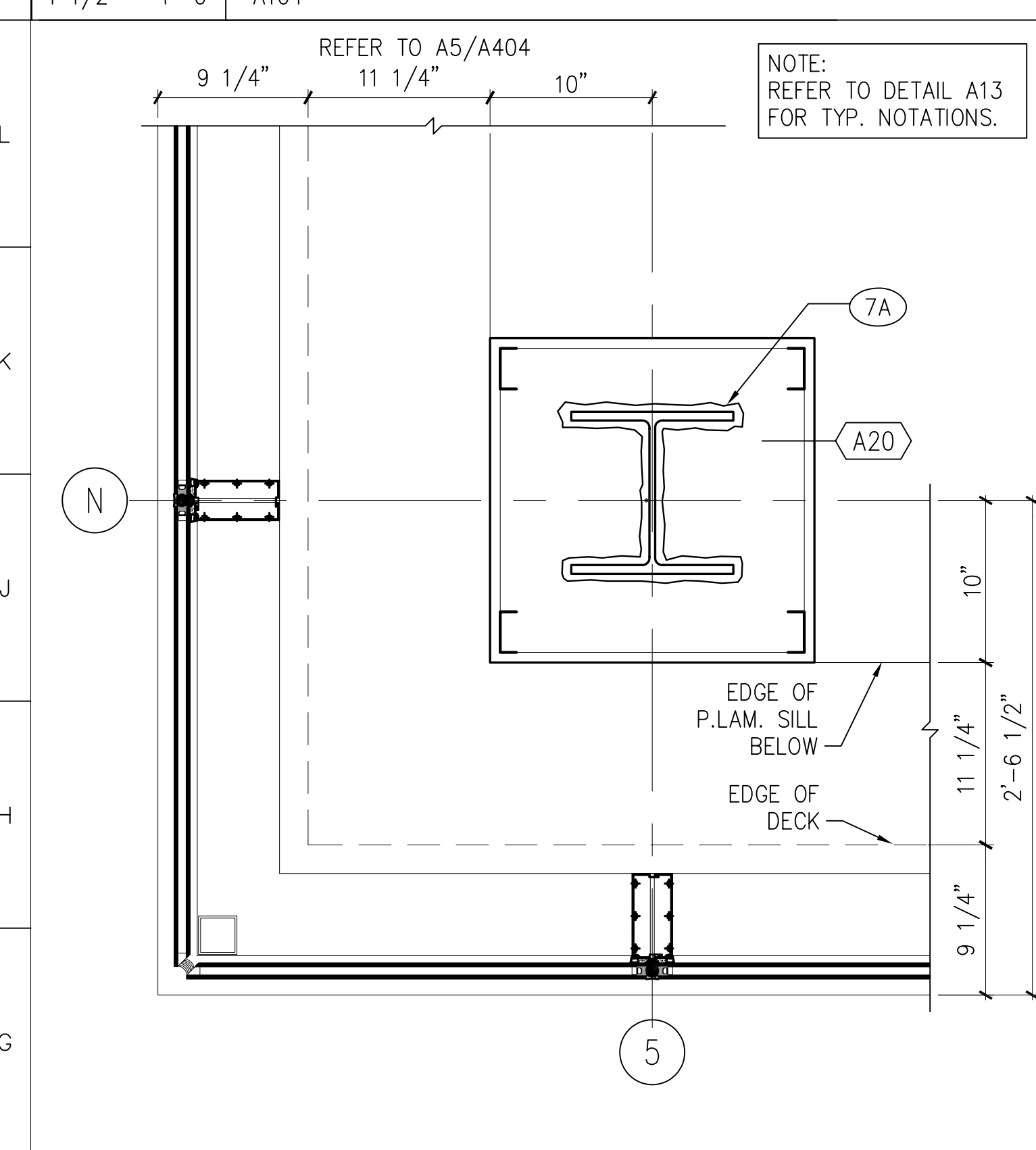
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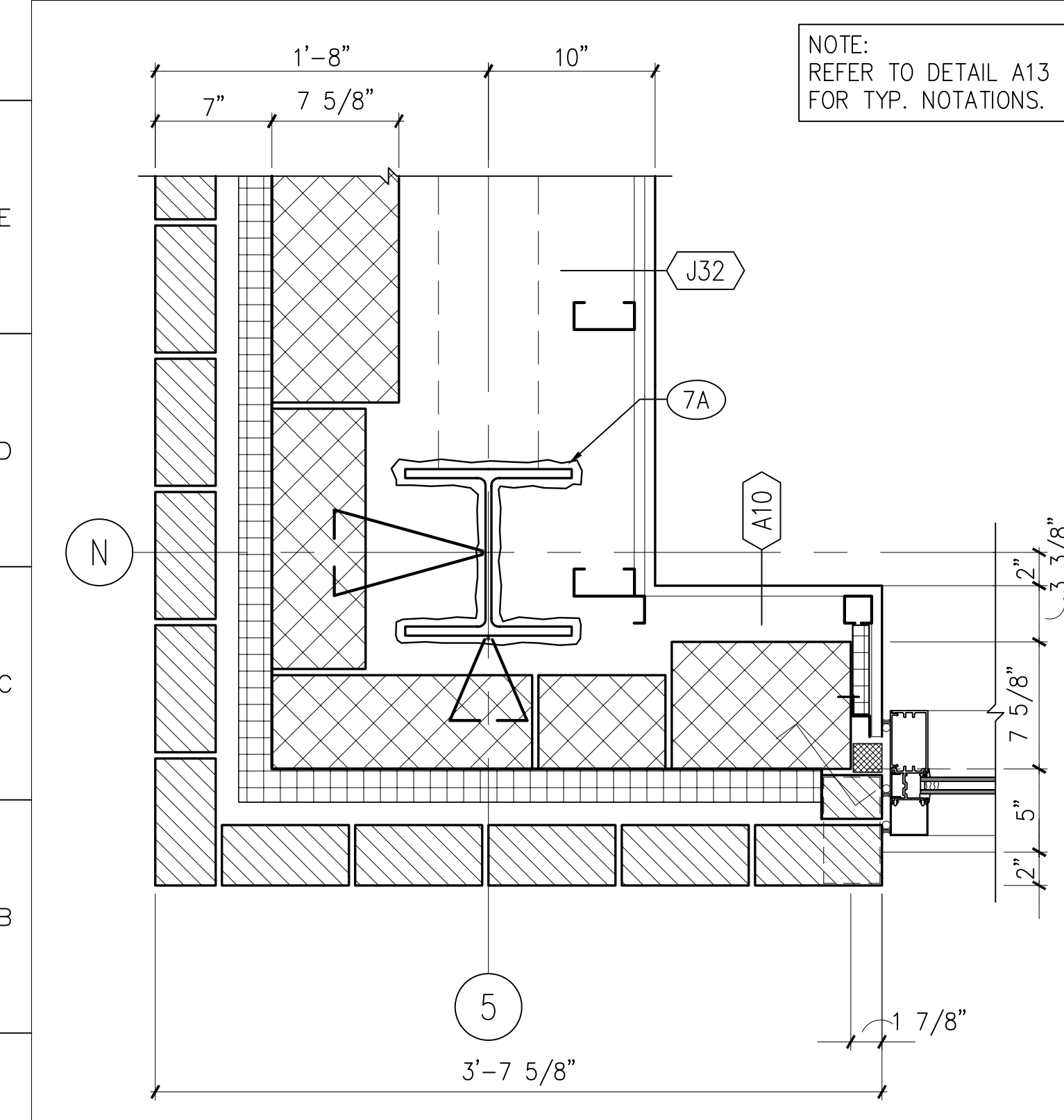
MONTGOMERY COLLEGE APPROVAL  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE TITLE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE  
**Wall Sections**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-97/98-318  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A305**  
 SHEET 1 OF XX



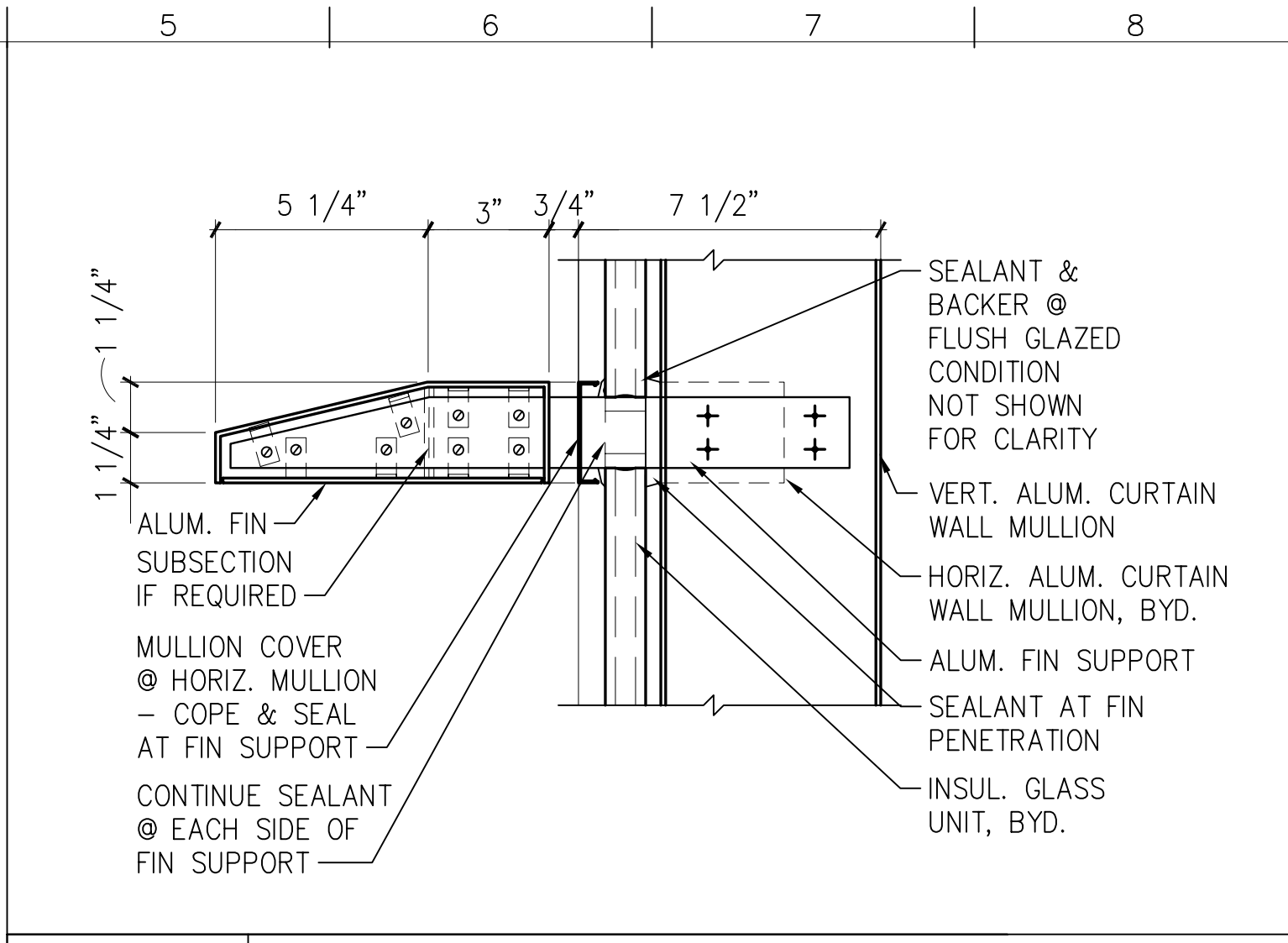
M1 DETAIL AT PARAPET  
1 1/2" = 1'-0" A104



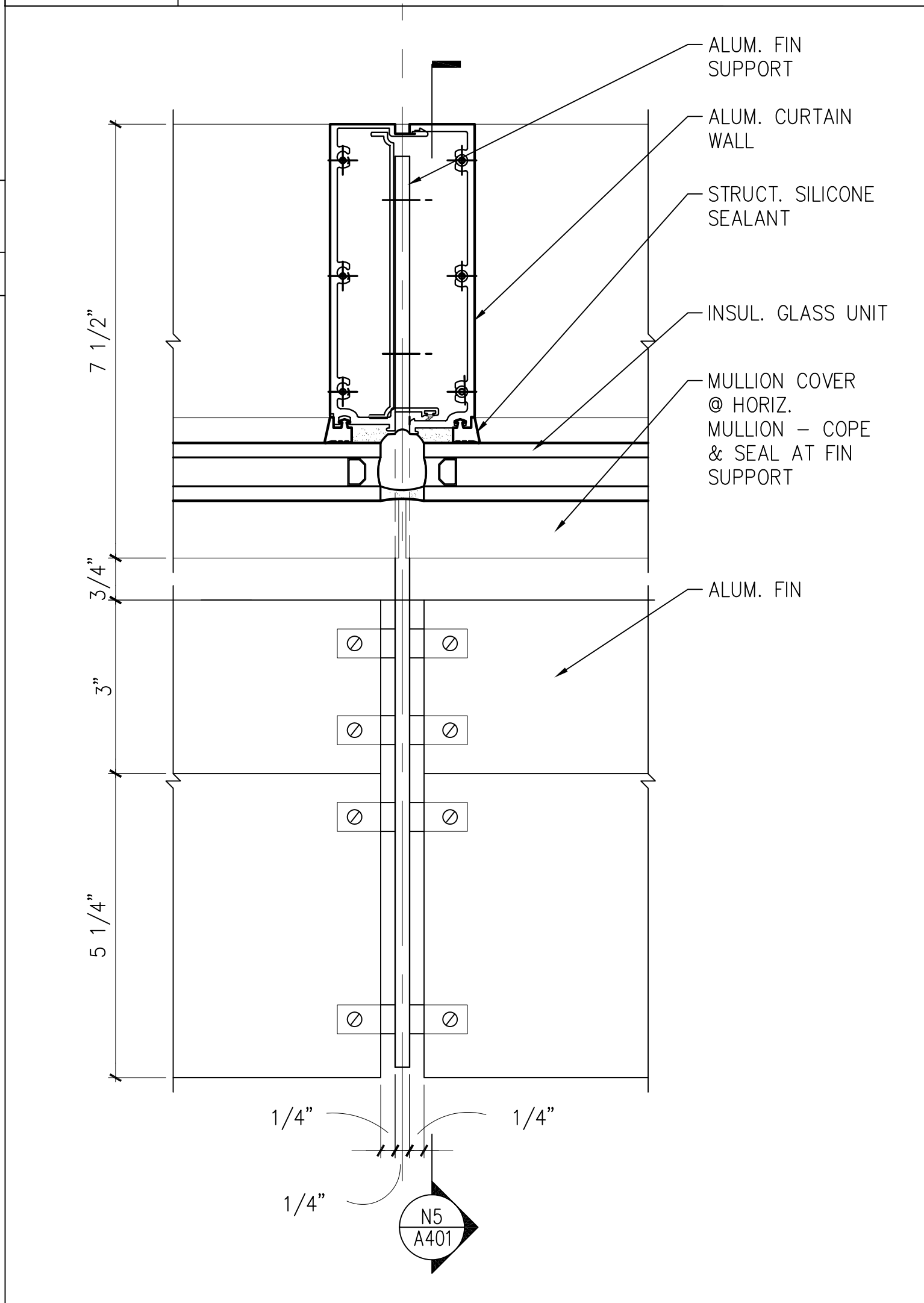
F1 DTL. AT SECOND/THIRD FLOOR  
1 1/2" = 1'-0" A102, A103



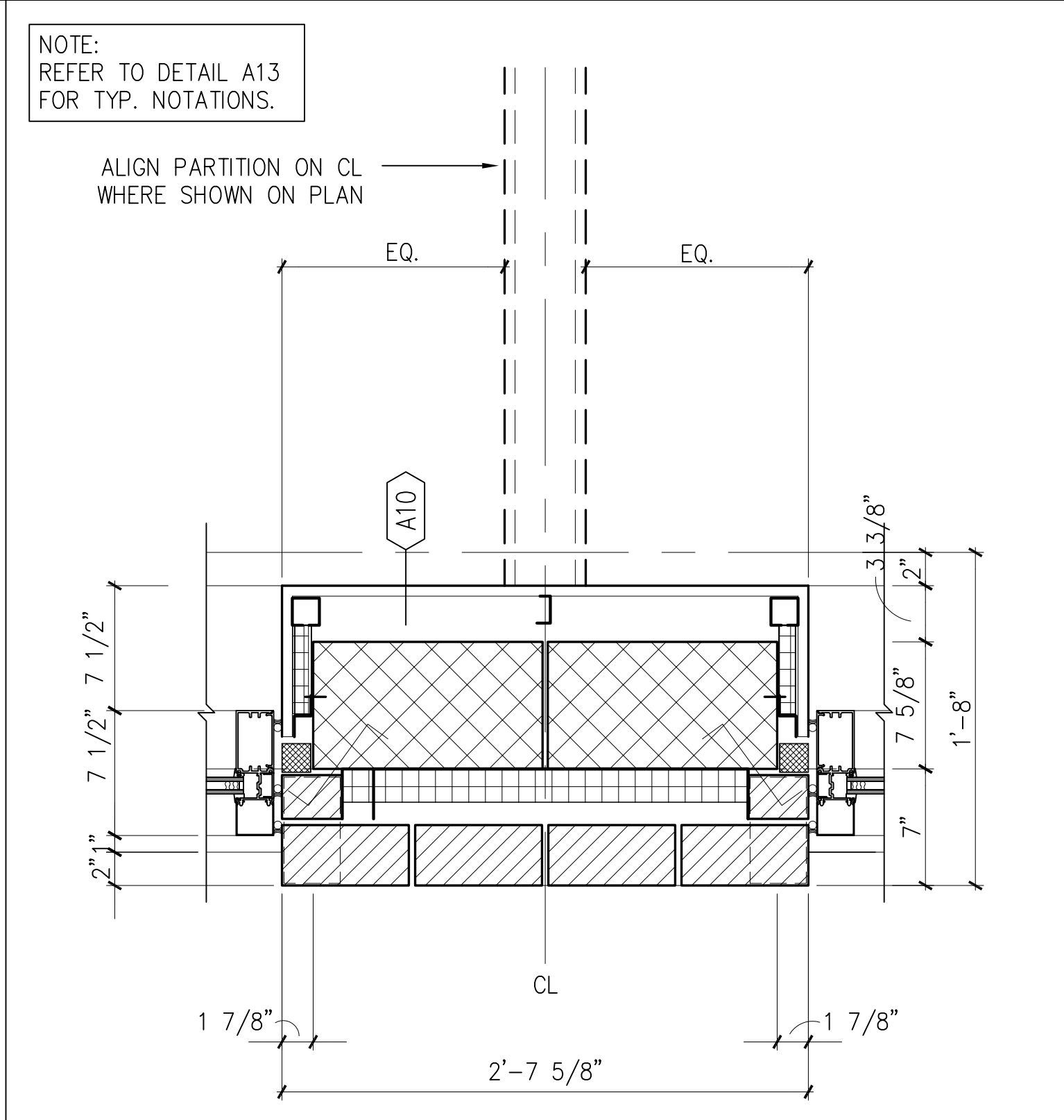
A1 DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A101



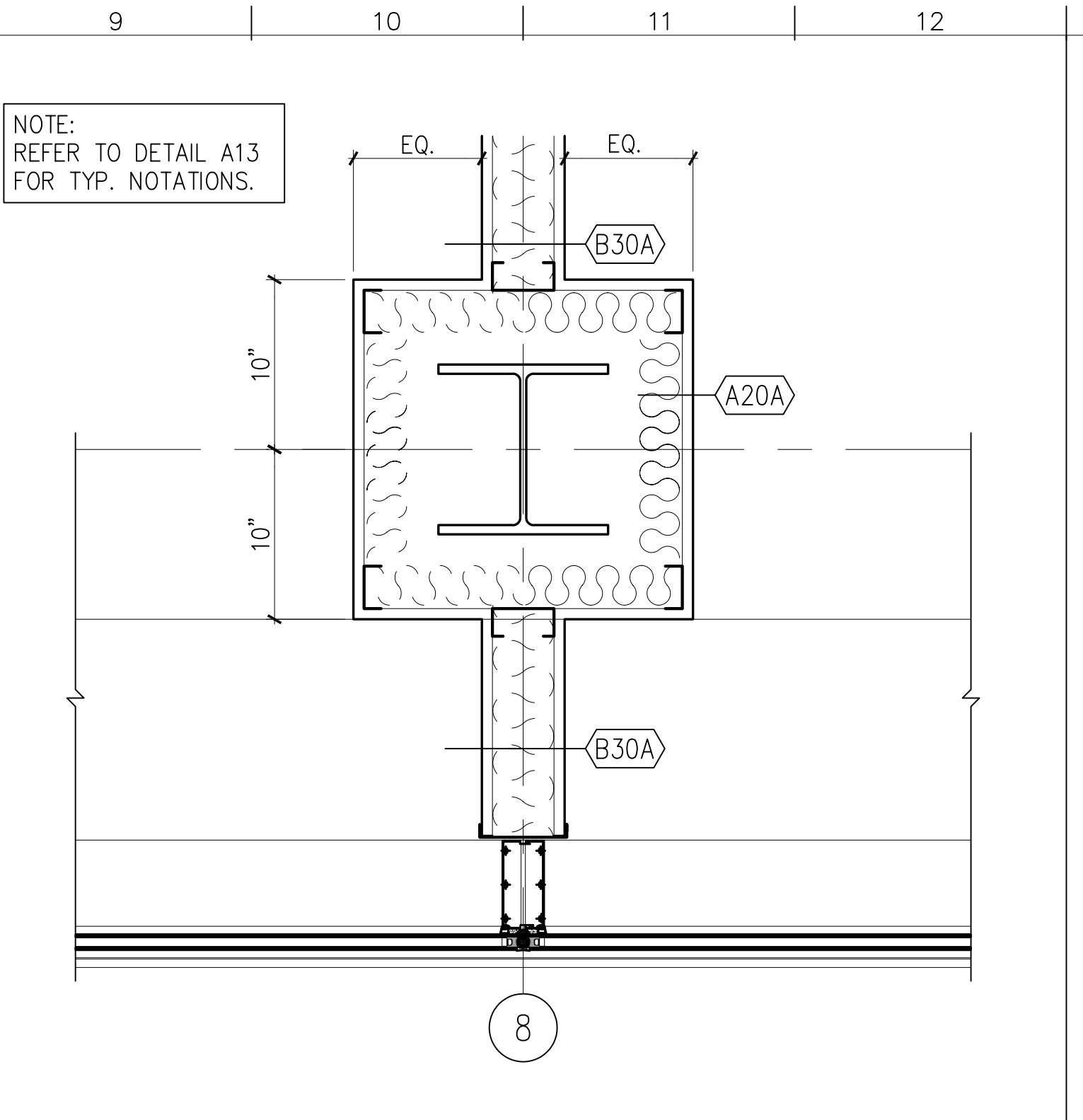
N5 DTL. AT CURTAIN WALL FIN  
3" = 1'-0" F5/A401



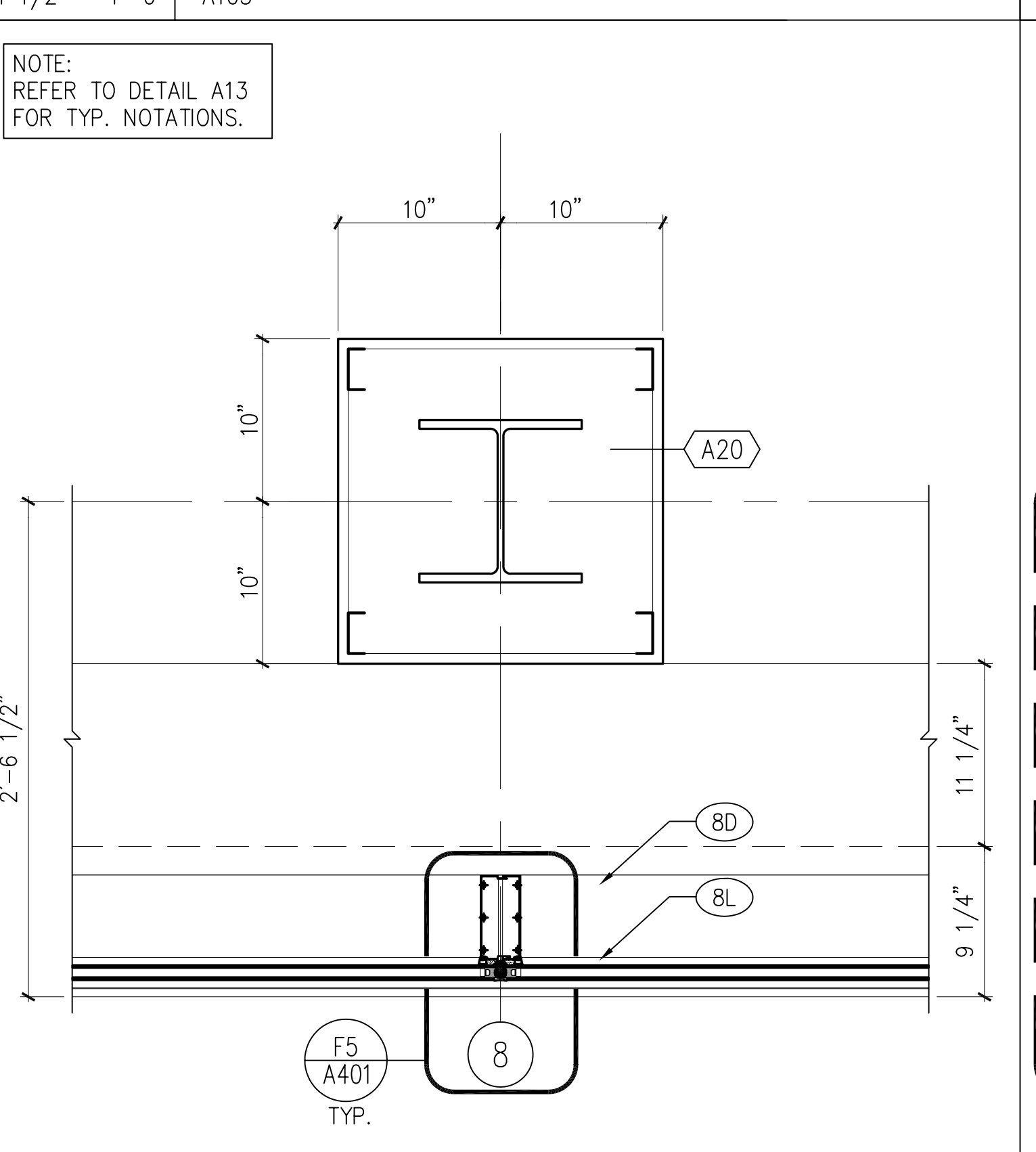
F5 DTL. AT CURTAIN WALL FIN  
6" = 1'-0" F9/A401



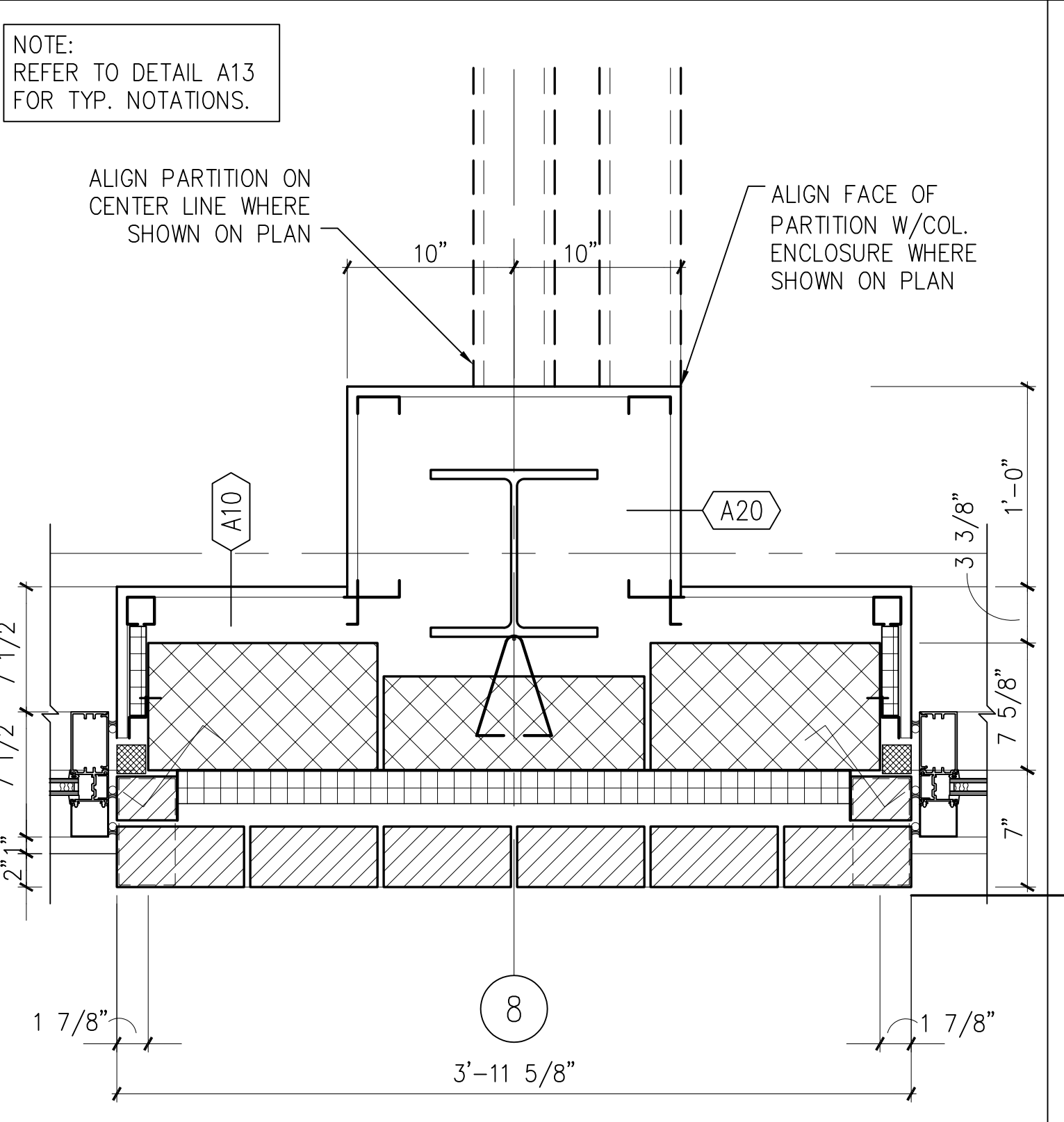
A5 PLAN DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A101



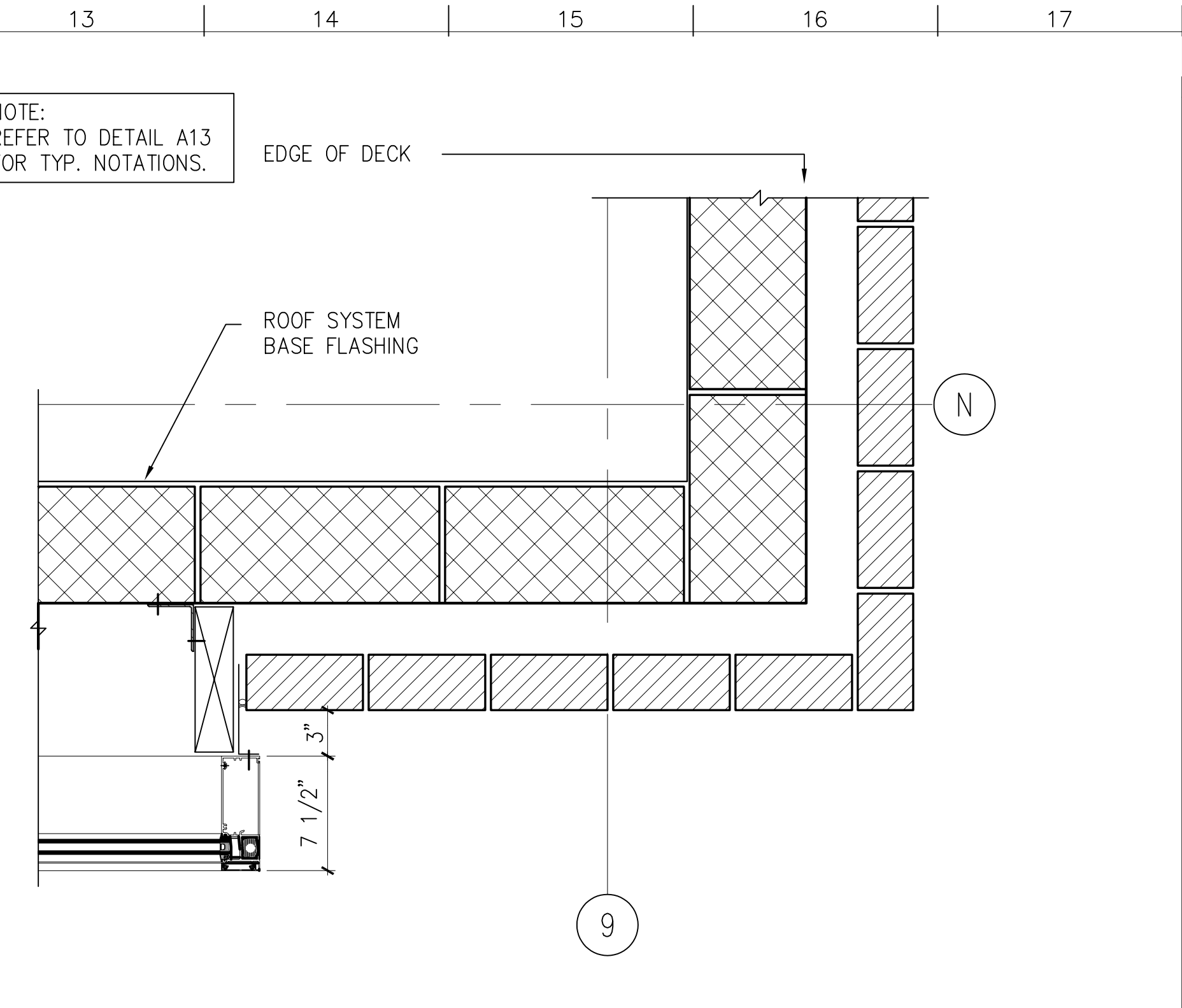
M9 DETAIL AT THIRD FLOOR  
1 1/2" = 1'-0" A103



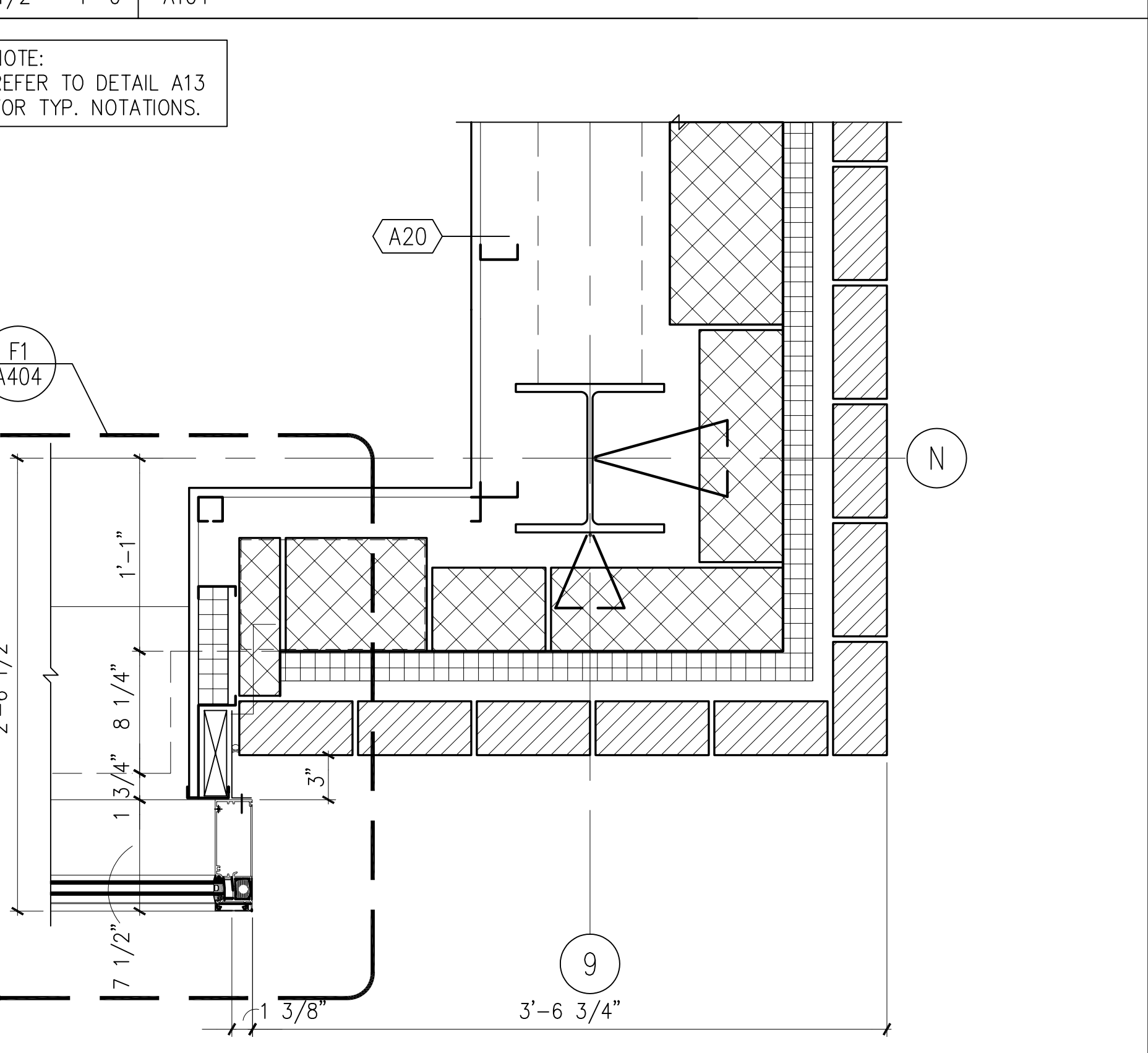
F9 DTL. AT SECOND/THIRD FLOOR  
1 1/2" = 1'-0" A102, A103



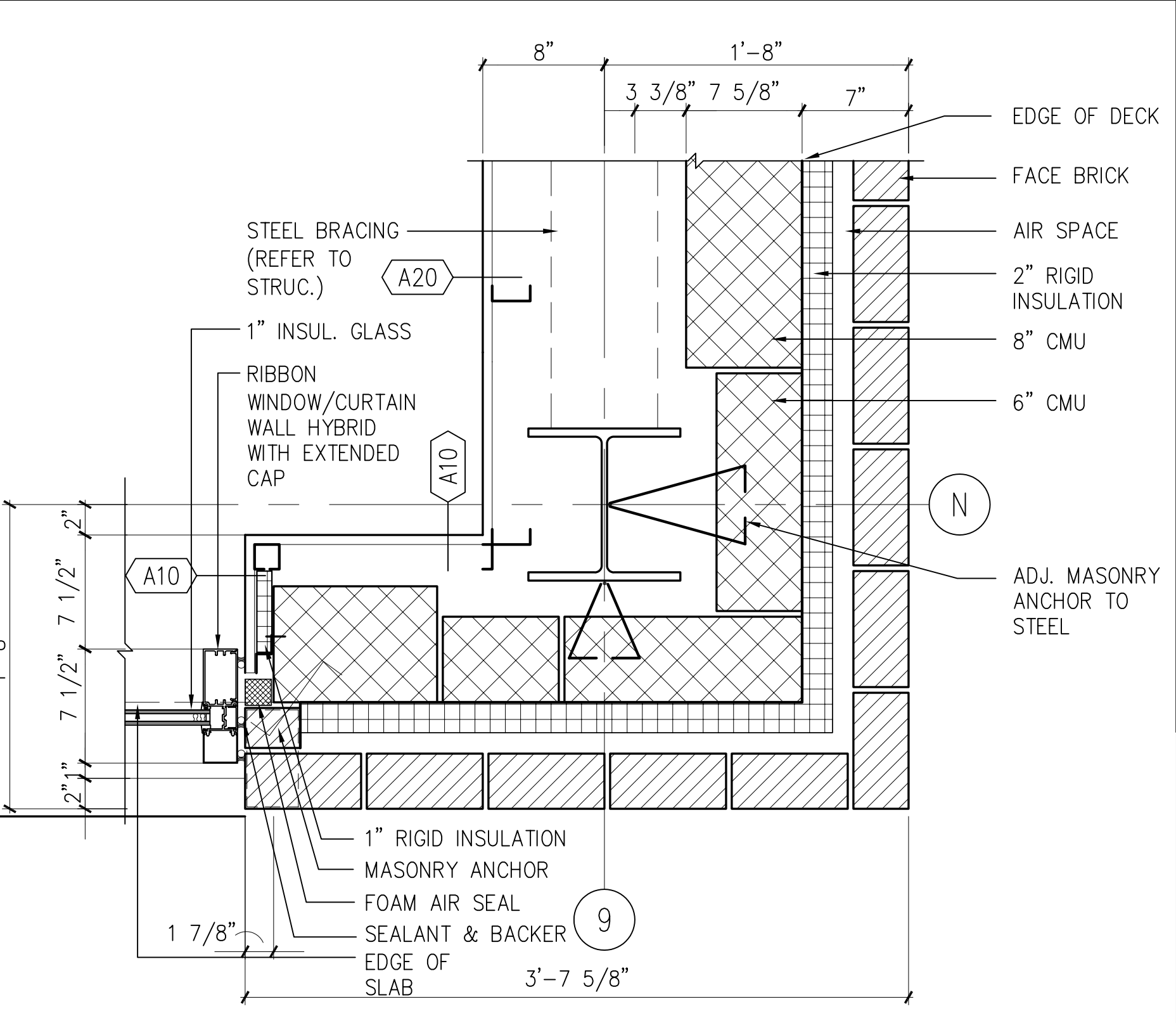
A9 PLAN DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A101



M13 DETAIL AT PARAPET  
1 1/2" = 1'-0" A104



F13 DETAIL AT SECOND/THIRD FLOOR  
1 1/2" = 1'-0" A102, A103



A13 PLAN DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A101

MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8L INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9K RESILIENT BASE
- 9L PAINT (Color-Ref. to Schedule)
- 9M EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)

Horizontal Details

- 11A RECESSED, MOTORIZED PROJECTION SCREEN
  - 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - 12A RECESSED ENTRANCE MAT AND FRAME
  - 12B WINDOW TREATMENT - BLINDS
  - 12C WINDOW TREATMENT - SUN SHADING
  - 14A HYDRAULIC ELEVATOR
  - 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
  - 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- \* REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

PROJECT NO. 34495.01  
DATE: 2/20/02

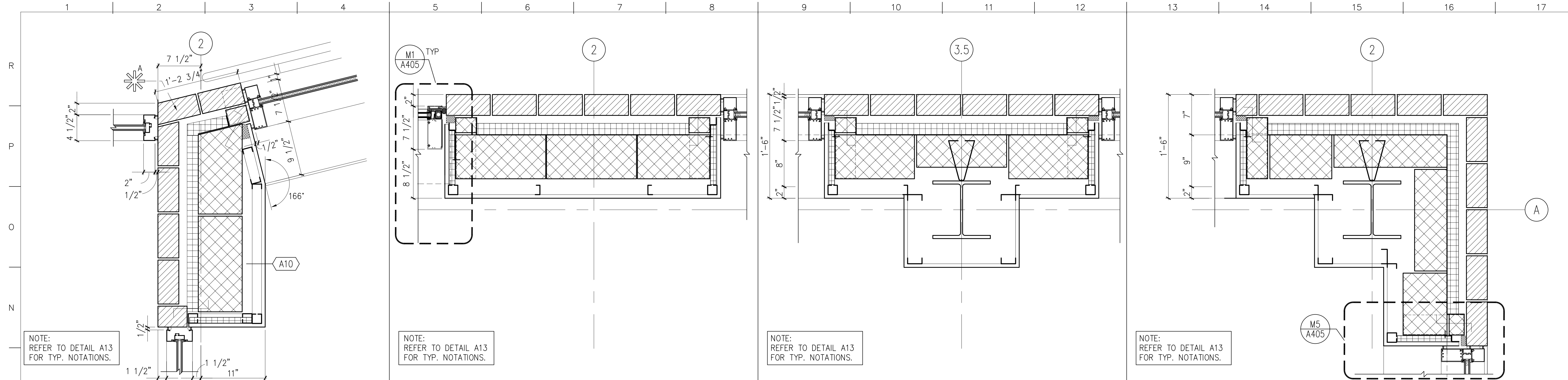
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Horizontal Details  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

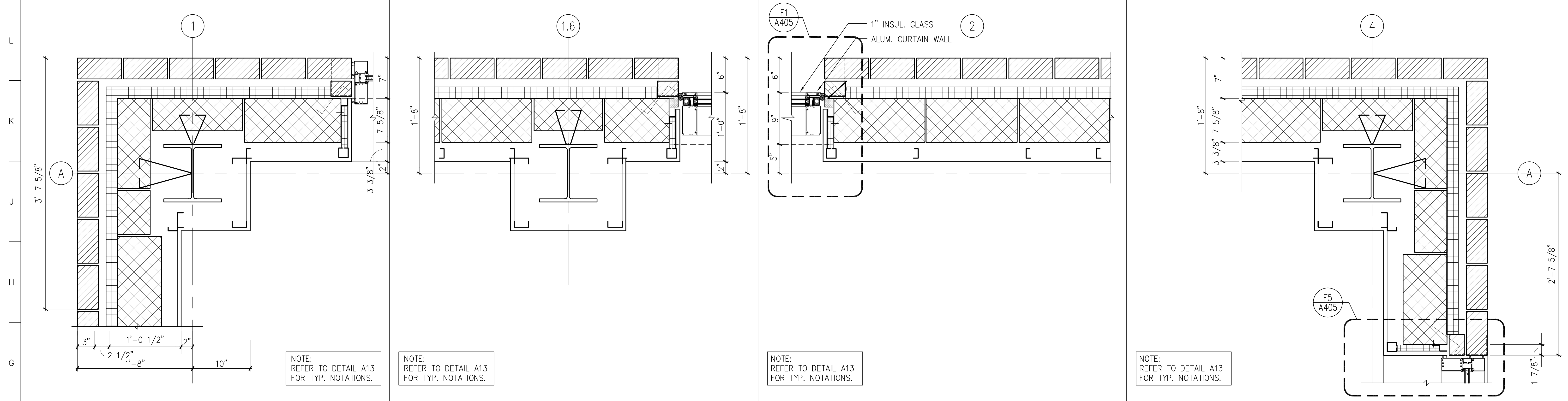
DEPARTMENT OF GENERAL SERVICES  
APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE  
APPROVAL  
DATE

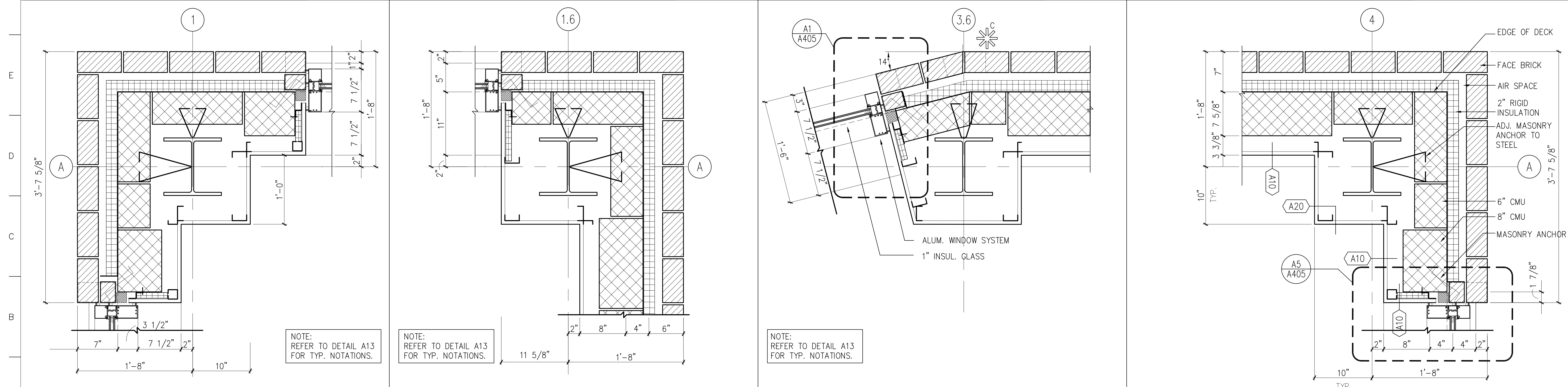
SHEET 1 OF 22



M1	DETAIL AT FIRST FLOOR	M5	DETAIL AT FOURTH FLOOR	M9	DETAIL AT FOURTH FLOOR	M13	PLAN DETAIL AT FOURTH FLOOR
1 1/2" = 1'-0"	A8/605	1 1/2" = 1'-0"	A104	1 1/2" = 1'-0"	A104	1 1/2" = 1'-0"	A104



F1	PLAN DETAIL	F5	PLAN DETAIL AT CURTAIN WALL	F9	PLAN DETAIL AT CURTAIN WALL	F13	DETAIL AT SECOND/THIRD FLOOR
1 1/2" = 1'-0"	A102, A103, A104	1 1/2" = 1'-0"	A102, A103, A104	1 1/2" = 1'-0"	A102, A103	1 1/2" = 1'-0"	A102, A103



A1	PLAN DETAIL AT FIRST FLOOR	A5	PLAN DETAIL AT FIRST FLOOR	A9	PLAN DETAIL AT FIRST FLOOR	A13	PLAN DETAIL AT FIRST FLOOR
1 1/2" = 1'-0"	A101	1 1/2" = 1'-0"	A101	1 1/2" = 1'-0"	A101	1 1/2" = 1'-0"	A101

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8K) TEMPERED GLASS (thickness)
- (8L) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9J) SHEET VINYL FLOORING
- (9K) RESILIENT BASE
- (9L) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
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- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

- \* REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A402**  
 SHEET X OF XX

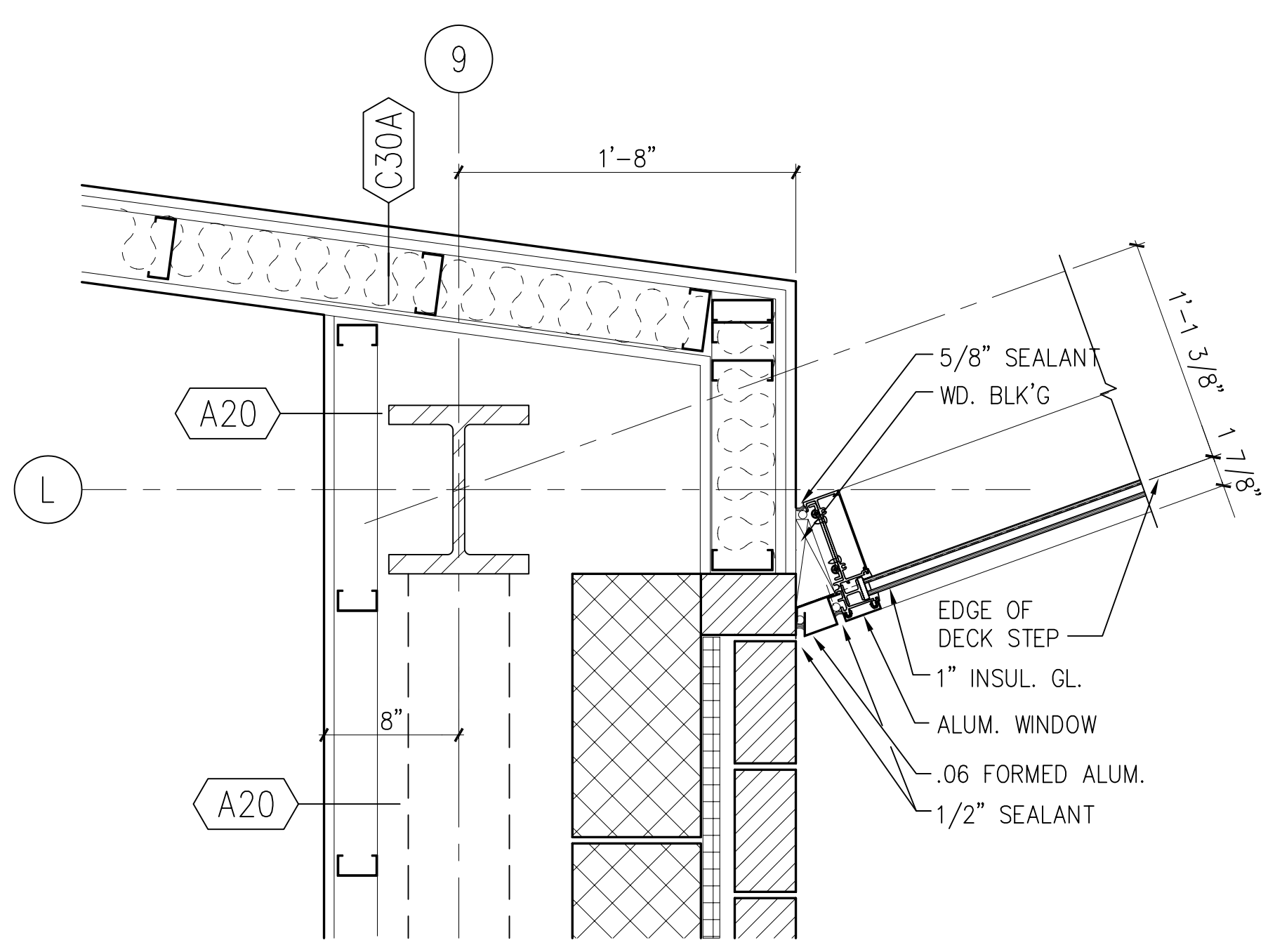
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

Horizontal Details  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

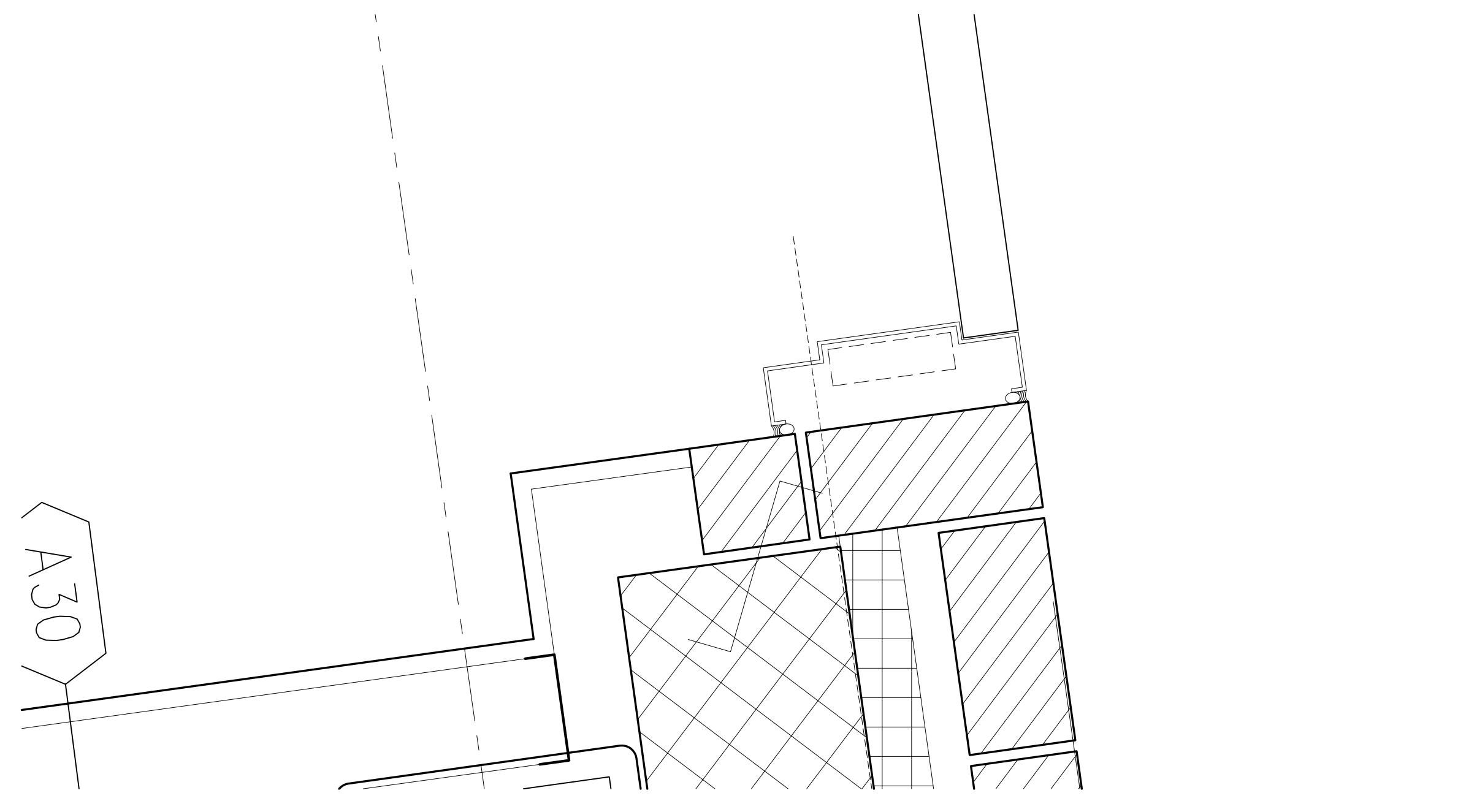
DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

MONTGOMERY COLLEGE APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

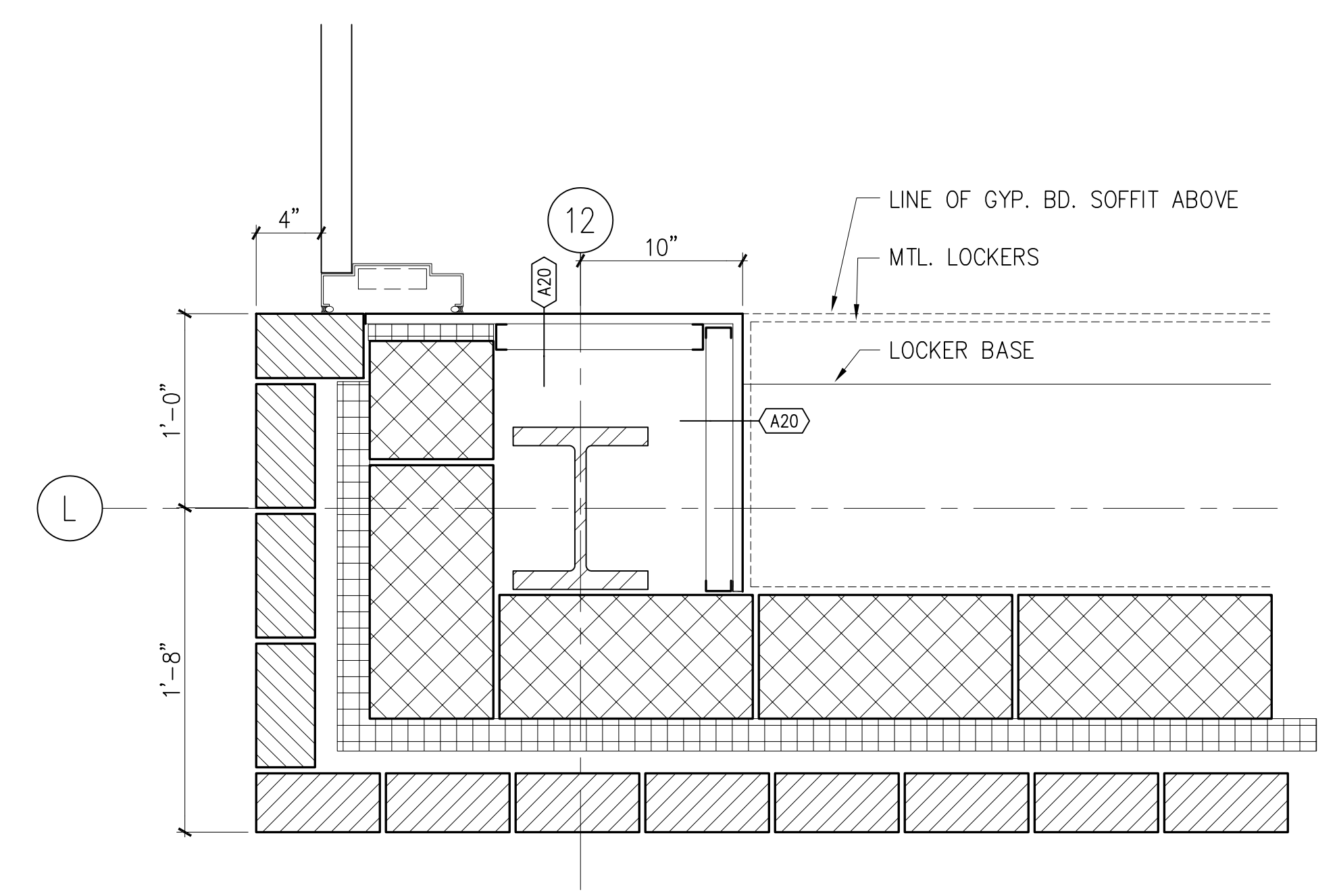
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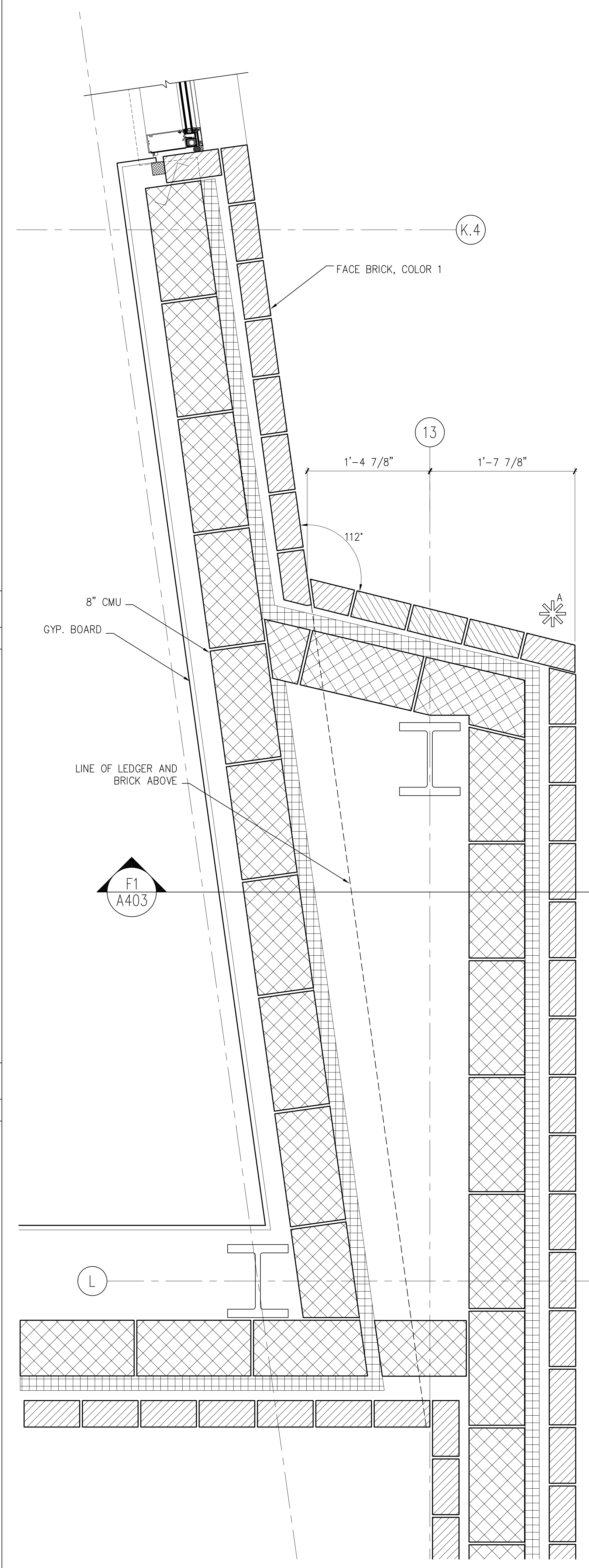
**K1** DETAIL AT 3RD FLOOR TERRACE  
 1" = 1'-0" A103



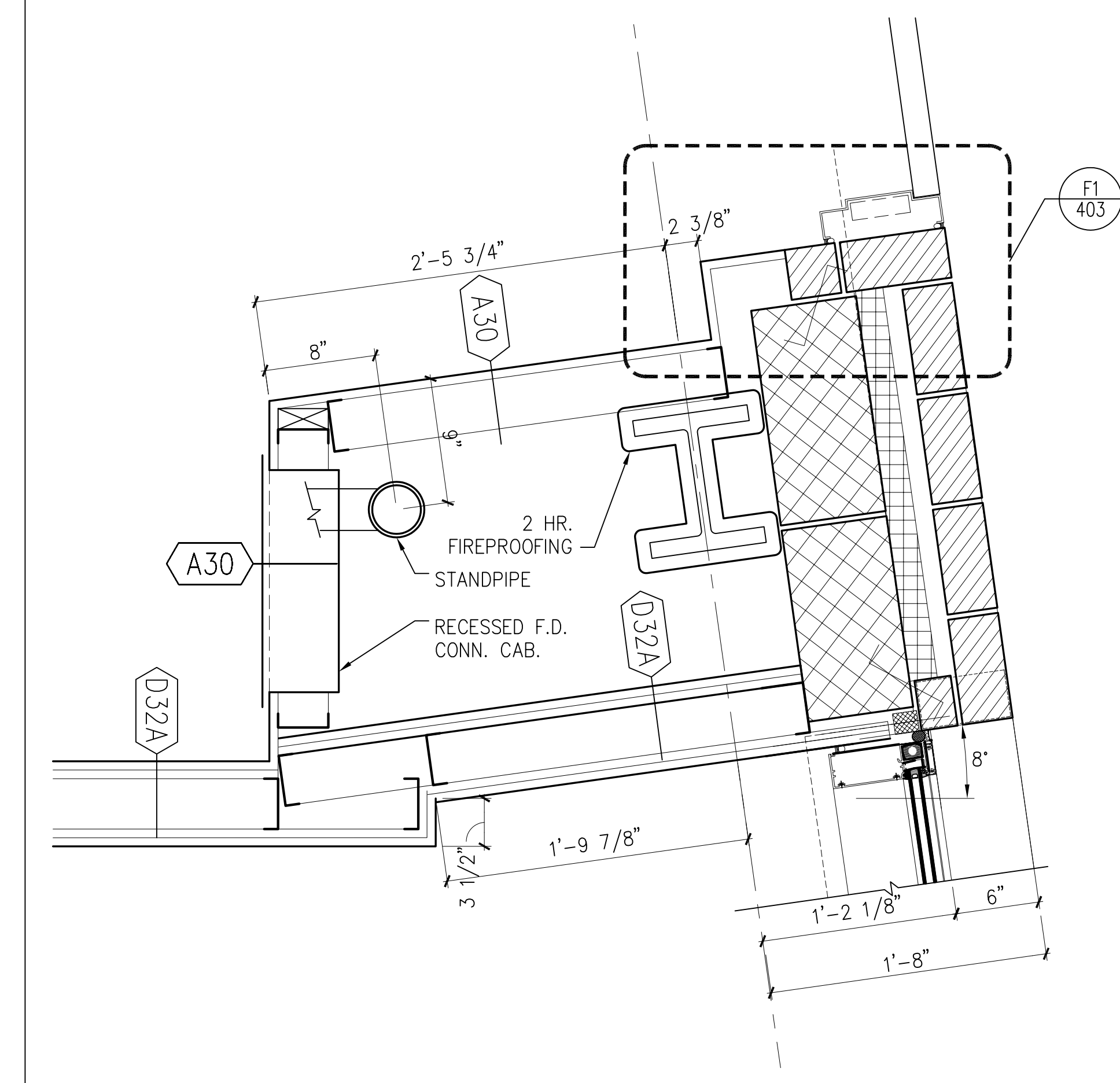
**F1** DOOR FRAME DETAIL AT FIRST FLOOR  
 3" = 1'-0" K12/A403



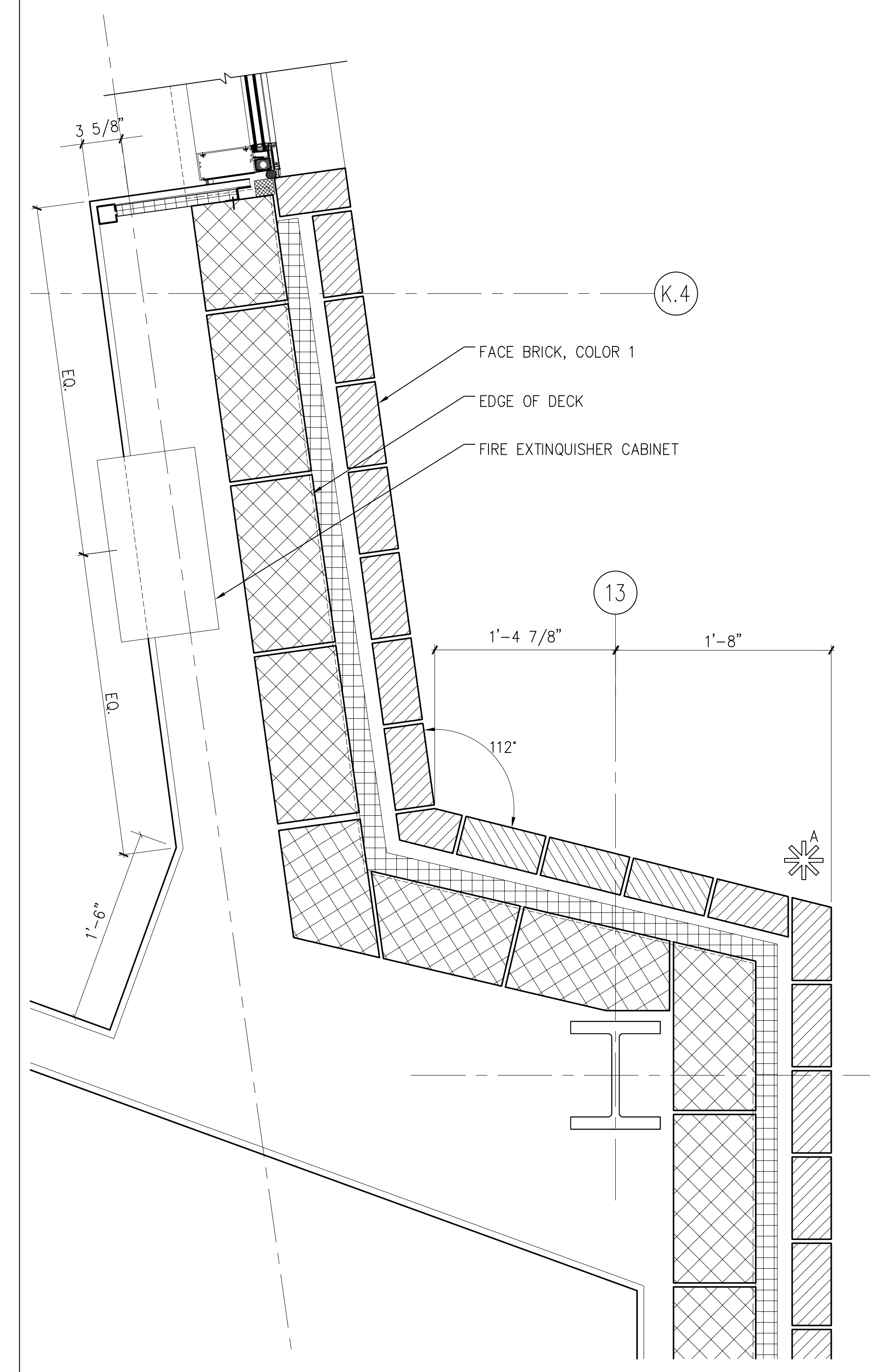
**A1** DETAIL AT THIRD FLOOR TERRACE  
 1 1/2" = 1'-0" A103



**A7** DETAIL AT THIRD FLOOR  
 1 1/2" = 1'-0" A103



**K12** DETAIL AT FIRST FLOOR, STAIR #3  
 1 1/2" = 1'-0" A101



**A12** DETAIL AT FIRST/SECOND FLOOR  
 1 1/2" = 1'-0" A101/A102

**MATERIAL KEYED NOTES**

- 3A CONCRETE STRUCTURE
  - 3B CONCRETE SLAB ON GRADE
  - 3C CONCRETE SLAB ON METAL DECK
  - 3D SLAB EDGE
  - 4A FACE BRICK ON CMU, (COLOR 1)
  - 4B FACE BRICK ON CMU, (COLOR 2)
  - 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
  - 4D GLASS BLOCK
  - 4E CONCRETE MASONRY UNIT
  - 4F THROUGH WALL FLASHING
  - 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
  - 4H CAVITY WALL INSULATION (2" U.N.O.)
  - 5A STRUCTURAL STEEL
  - 5B METAL DECK
  - 5C COLD FORMED METAL FRAMING
  - 5D GALV. STEEL RELIEVING ANGLE/LINTEL
  - 5E STEEL RAILING SYSTEM
  - 5F ALUM. LADDER
  - 5G PTD. ALUM. MAST AND TRIM
  - 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
  - 6B WOOD TRIM
  - 6C ARCHITECTURAL WOODWORK
  - 7A SPRAY-ON FIREPROOFING
  - 7B BUILT-UP ROOFING SYSTEM
  - 7C PERIMETER INSULATION (2")
  - 7D INSULATED METAL PANEL
  - 7E METAL FLASHING
  - 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - 7G FORMED ALUMINUM COPING
  - 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - 8A ALUMINUM WINDOW SYSTEM
  - 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - 8C ALUMINUM CURTAIN WALL
  - 8D HOLLOW METAL FRAME
  - 8E HOLLOW METAL DOOR
  - 8F WOOD DOOR
  - 8G ROOF HATCH
  - 8H TEMPERED GLASS (thickness)
  - 8I INSULATING GLASS UNIT (Ref. to Schedule)
  - 9A GYPSUM BOARD (5/8")
  - 9B EXTRUDED ALUM REVEAL MOULDING (dim)
  - 9C EXTERIOR GYPSUM SOFFIT
  - 9D SUSPENDED ACOUSTIC PANEL CEILING
  - 9E METAL STUDS
  - 9F WALL GUARDS (TYPE)
  - 9G CERAMIC TILE
  - 9H VINYL COMPOSITION TILE
  - 9I SHEET VINYL FLOORING
  - 9J RESILIENT BASE
  - 9K PAINT (Color-Ref. to Schedule)
  - 9L EPOXY PAINT (Color-Ref. to Schedule)
  - 10A VISUAL DISPLAY BOARD
  - 10B TOILET COMPARTMENTS
  - 10C ALUMINUM LOUVER
  - 10D CUBICLE CURTAIN & TRACK
  - 10E METAL LOCKER
  - 10F FIRE EXTINGUISHER AND CABINET
  - 10G OPERABLE PARTITION
  - 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - 11A RECESSED, MOTORIZED PROJECTION SCREEN
  - 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - 12A RECESSED ENTRANCE MAT AND FRAME
  - 12B WINDOW TREATMENT - BLINDS
  - 12C WINDOW TREATMENT - SUN SHADING
  - 14A HYDRAULIC ELEVATOR
  - 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
  - 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- ☼ REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

**Horizontal Details**

MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

PROJECT # CC-01-MC-97/98-318

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

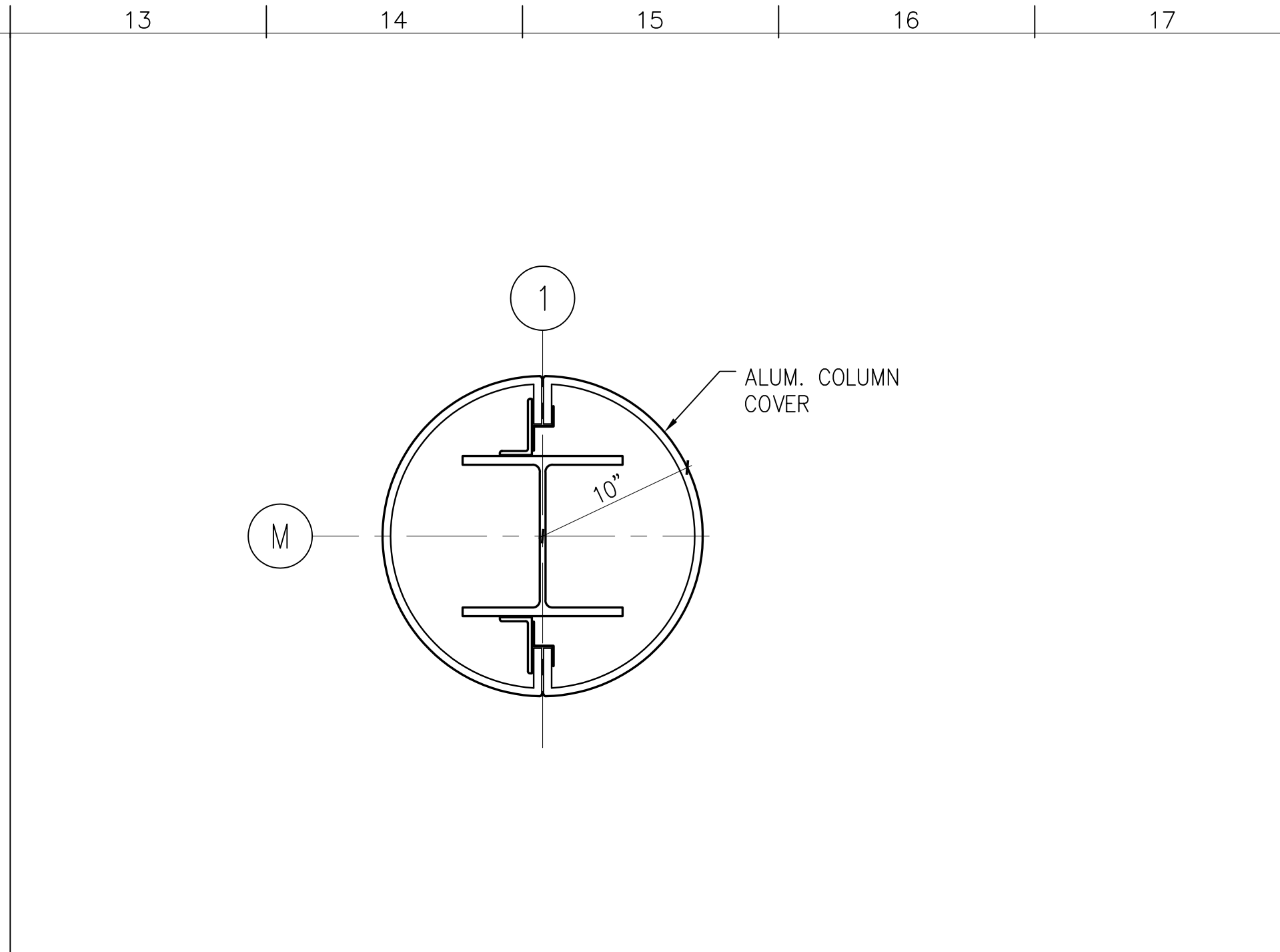
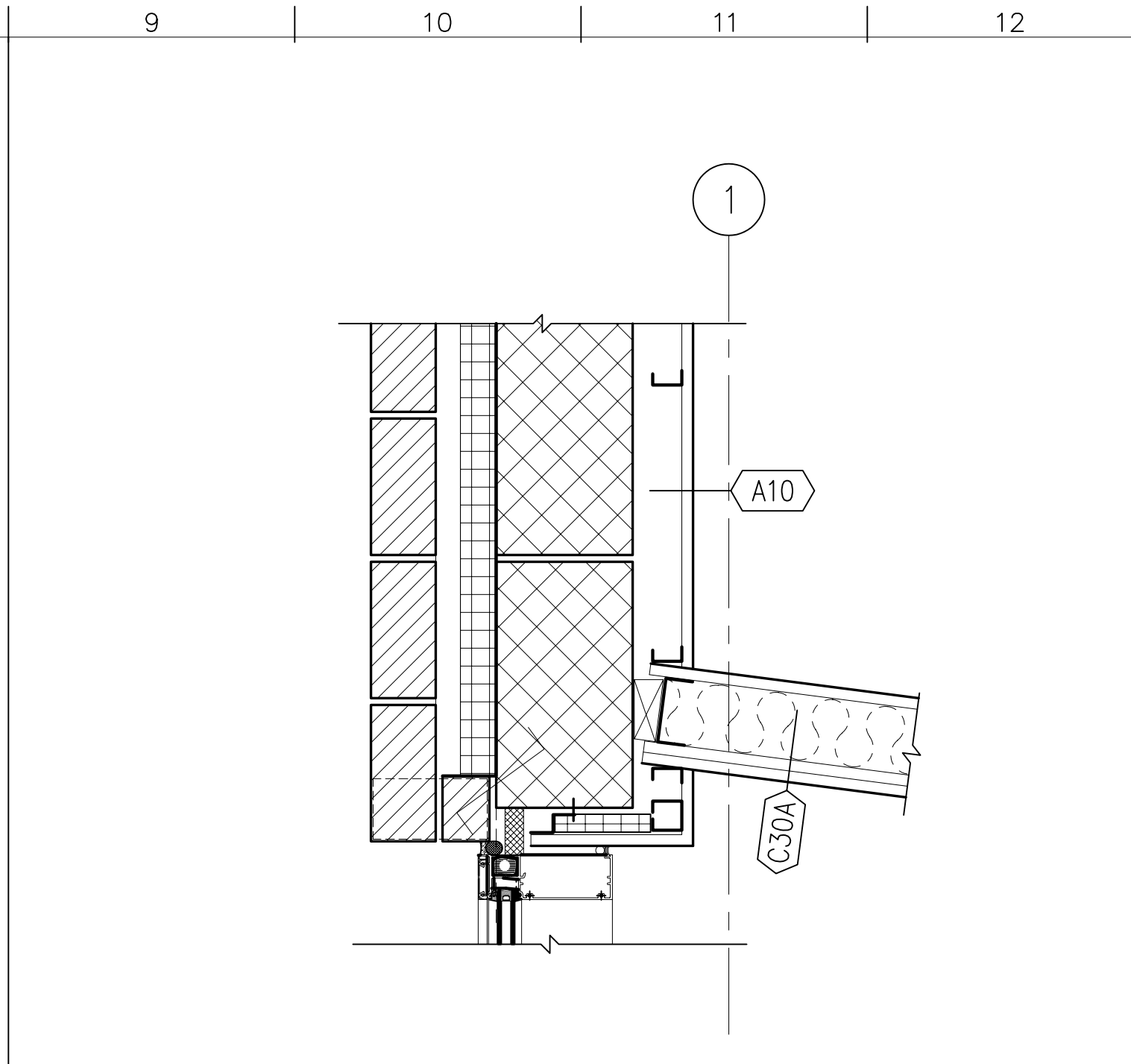
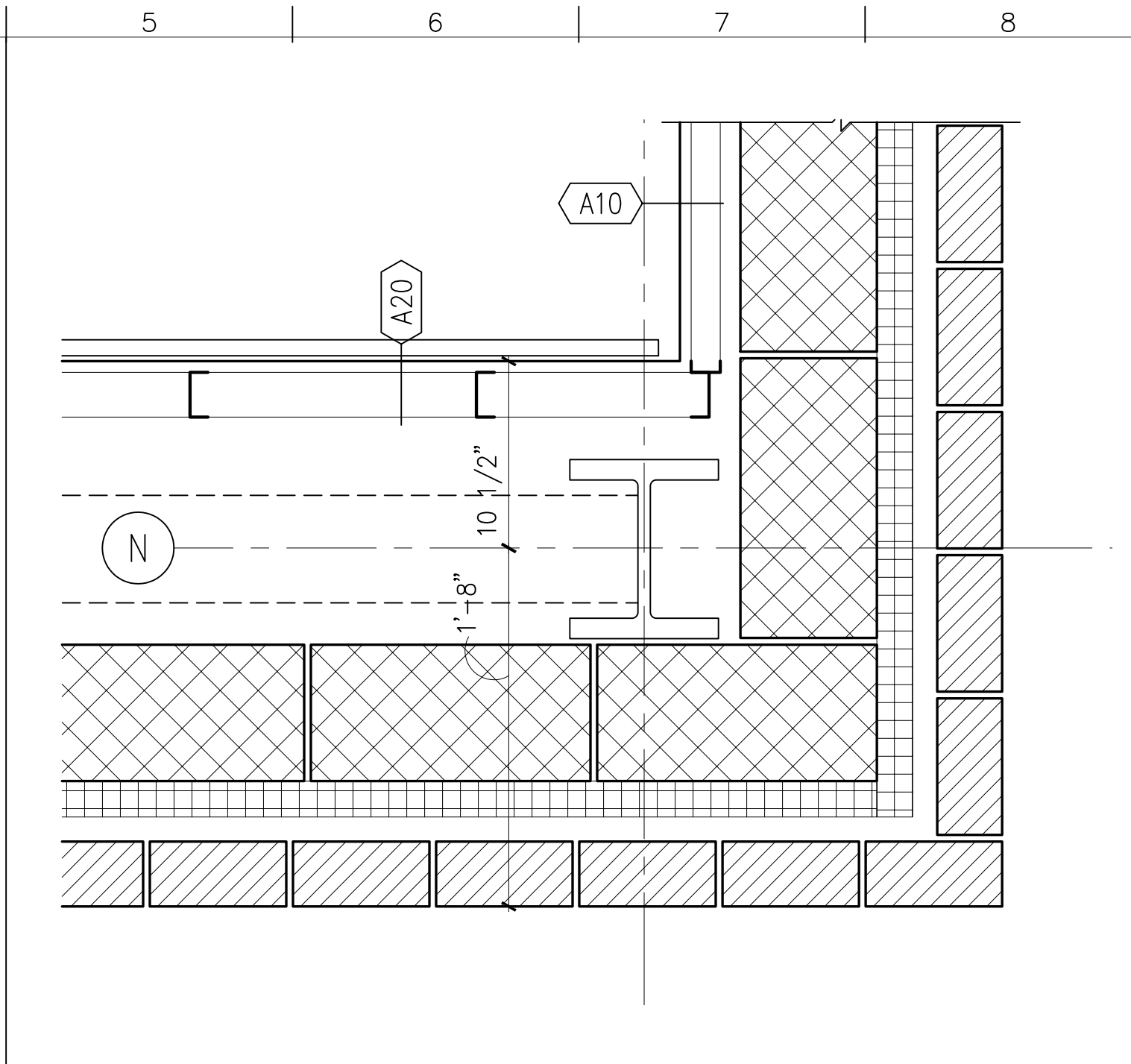
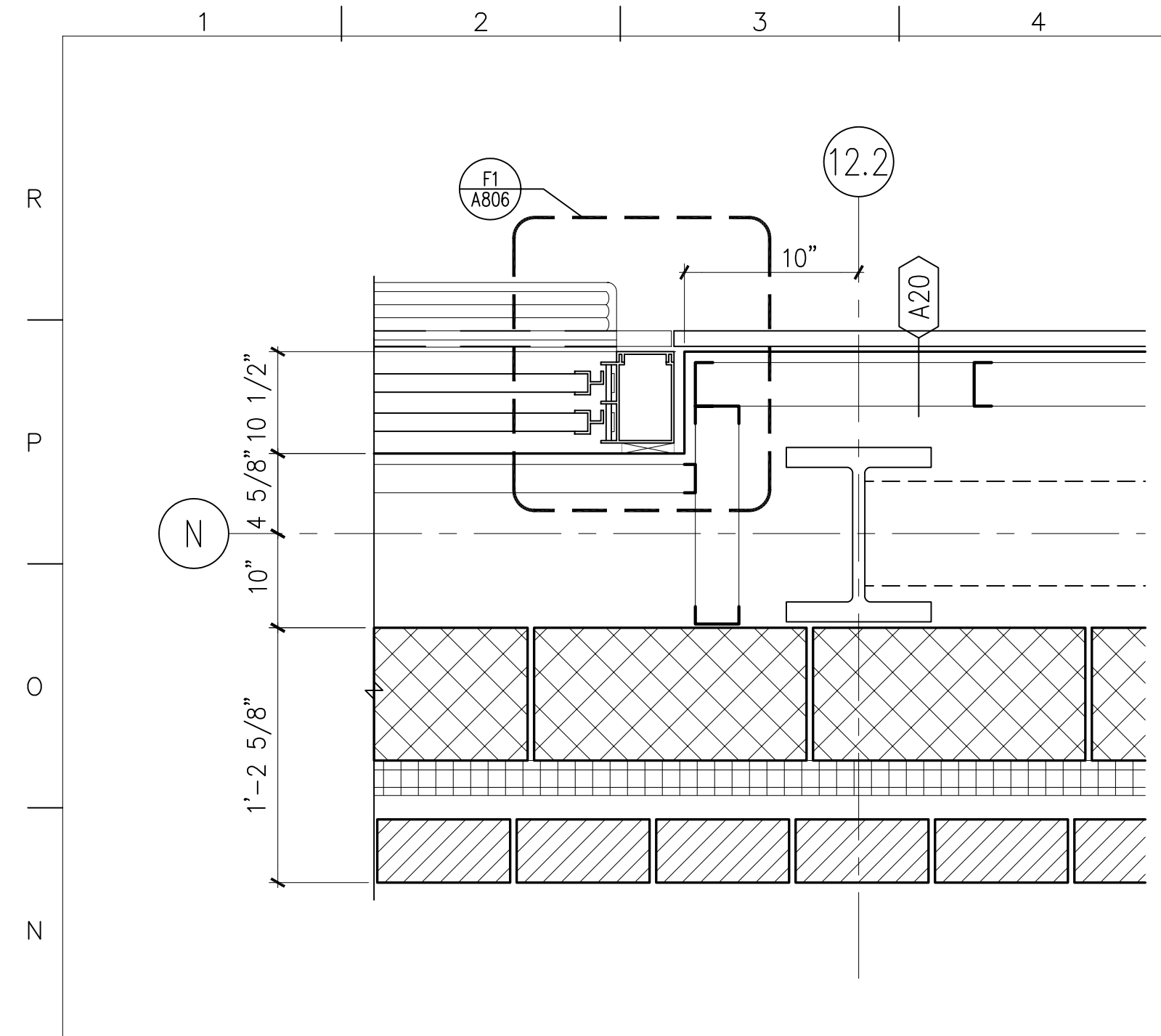
A403  
 SHEET X OF XX

MONTGOMERY COLLEGE  
 APPROVAL

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL

PROJECT MANAGER DATE TITLE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

DATE

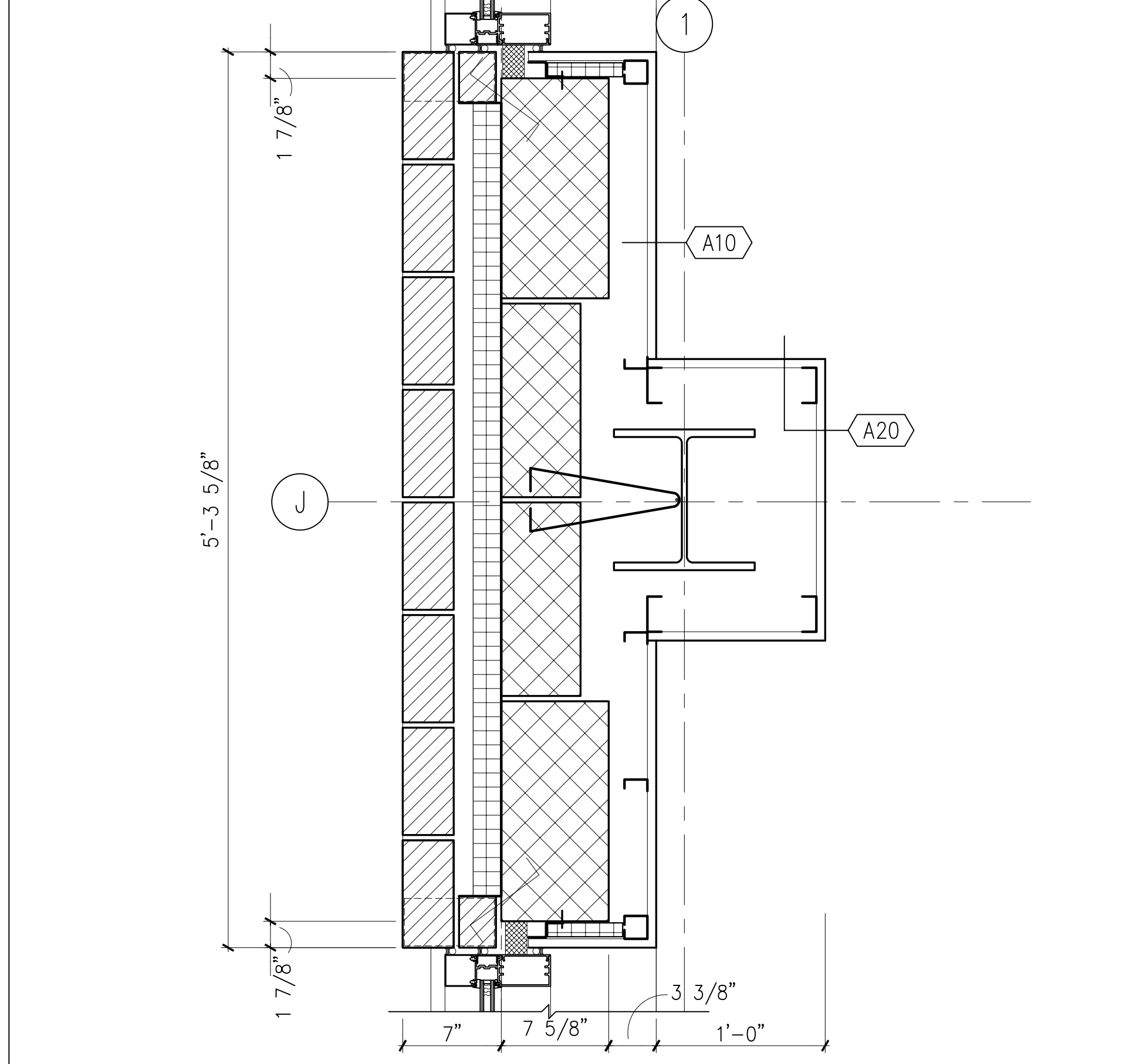
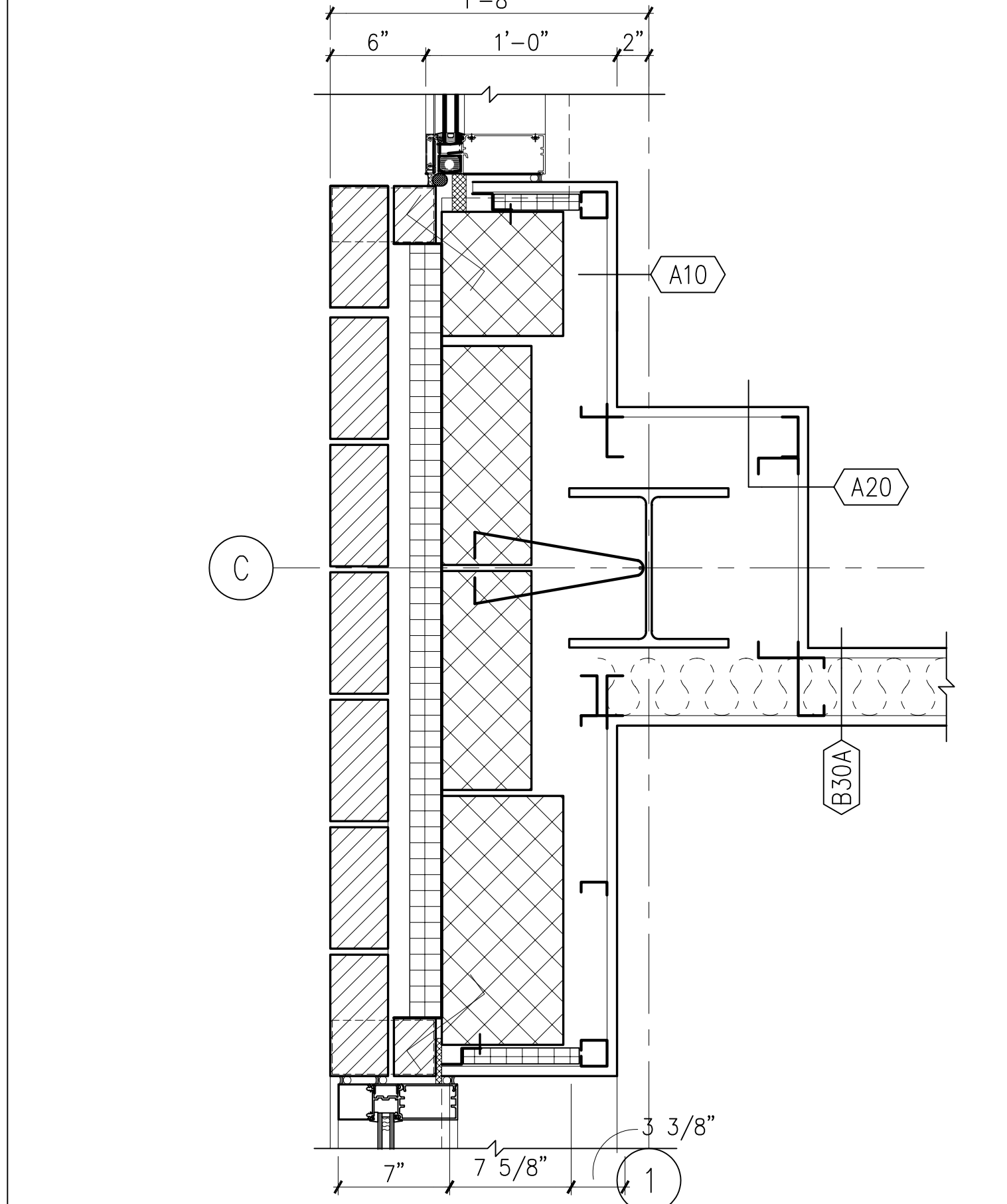
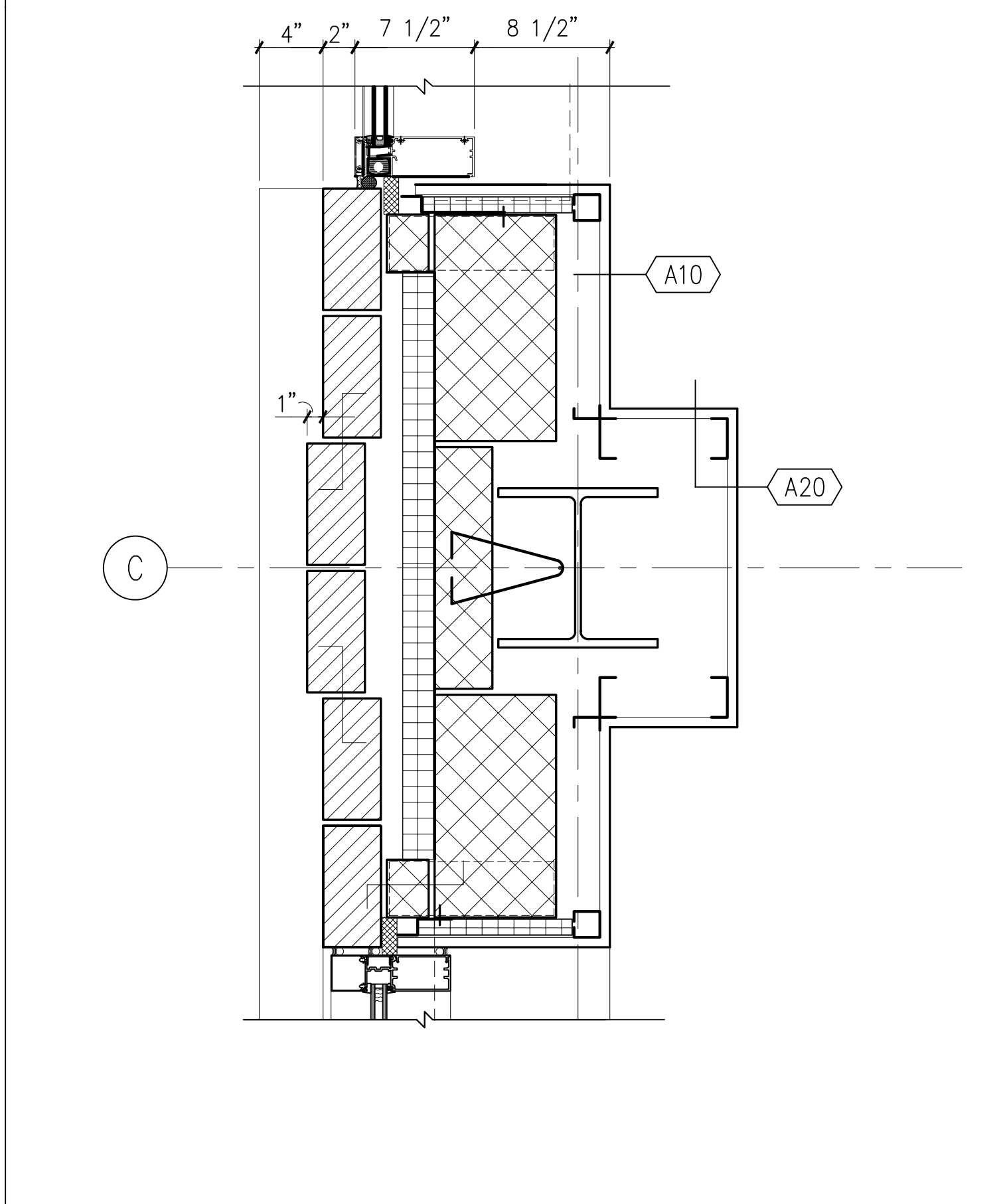
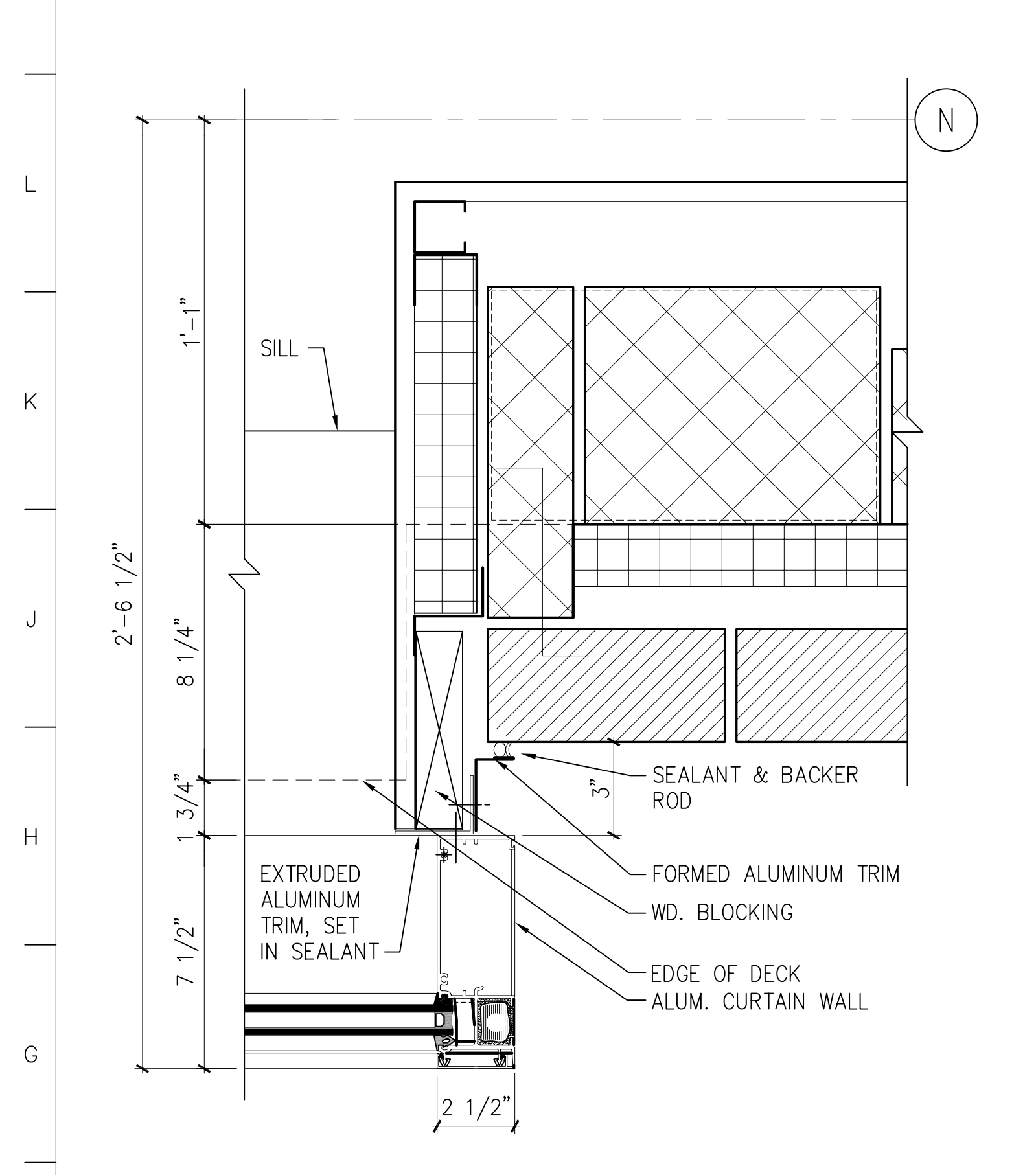


M1 DETAIL AT 1ST/2ND FLR.  
1 1/2" = 1'-0" A101, A102

M5 DETAIL AT 1ST/2ND FLR.  
1 1/2" = 1'-0" A101, A102

M9 DTL. AT 2ND/3RD/4TH FLR  
1 1/2" = 1'-0" A102, A103

M13 TYP. ALUMINUM COLUMN COVER  
1 1/2" = 1'-0" A101

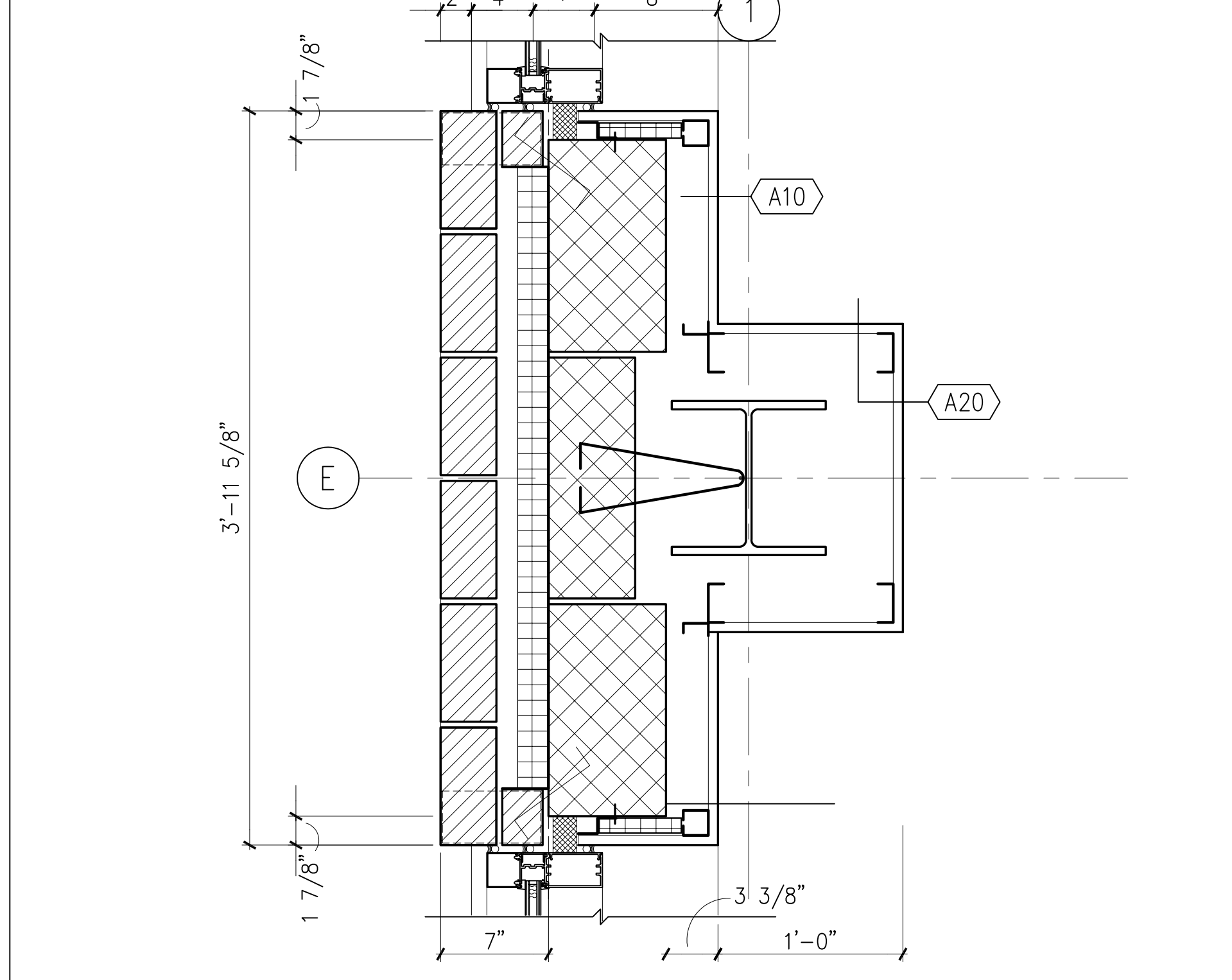
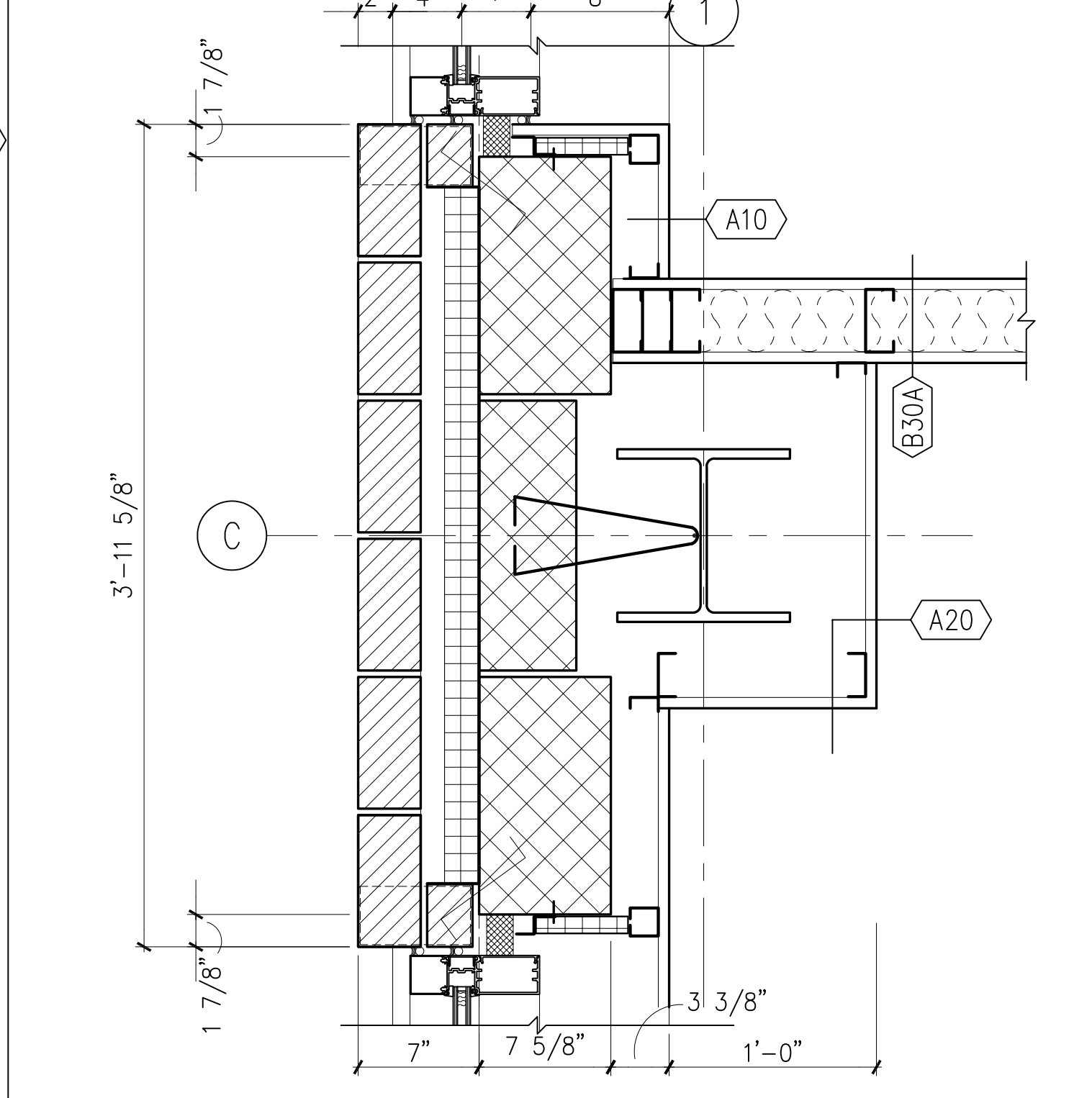
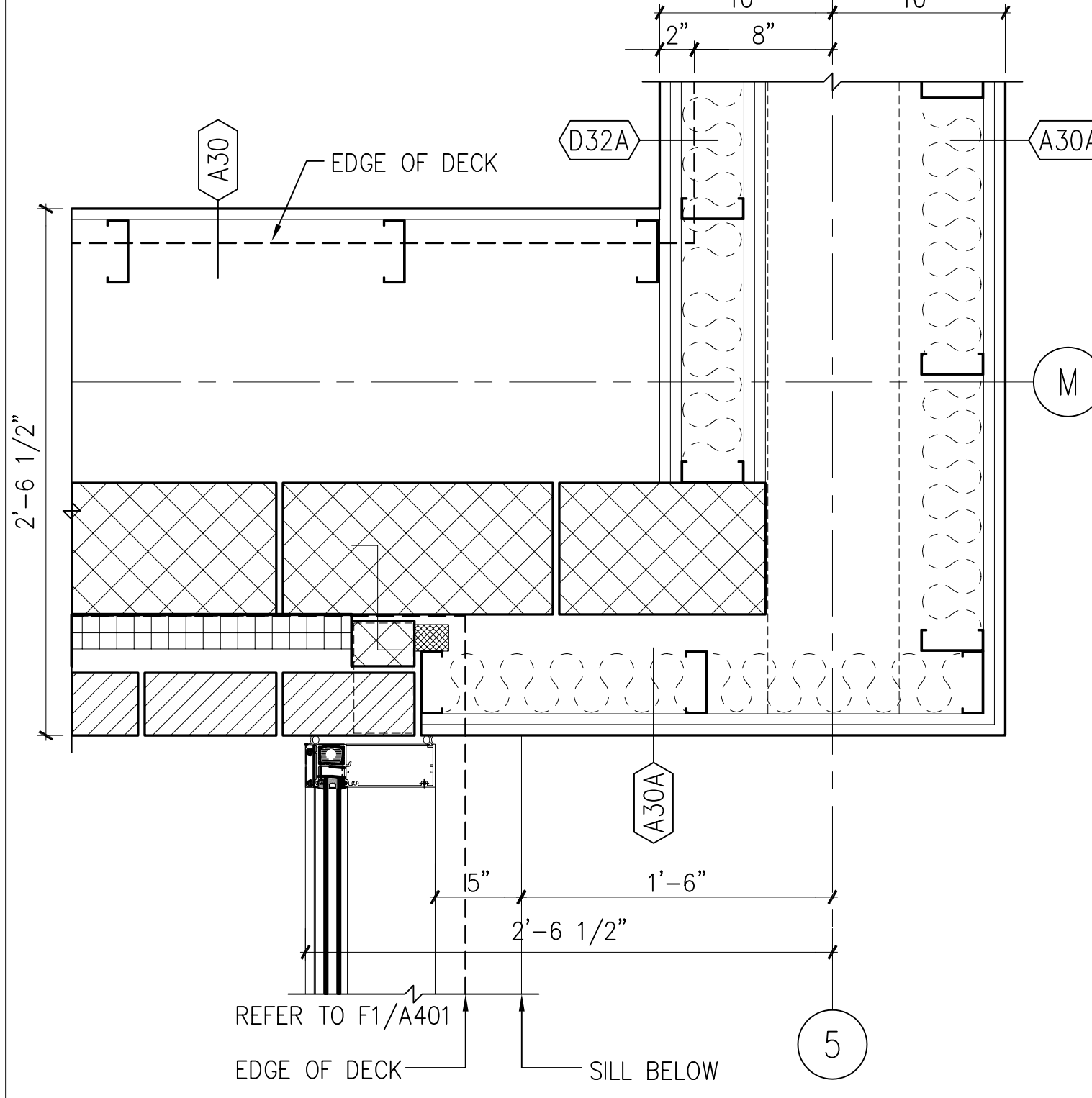
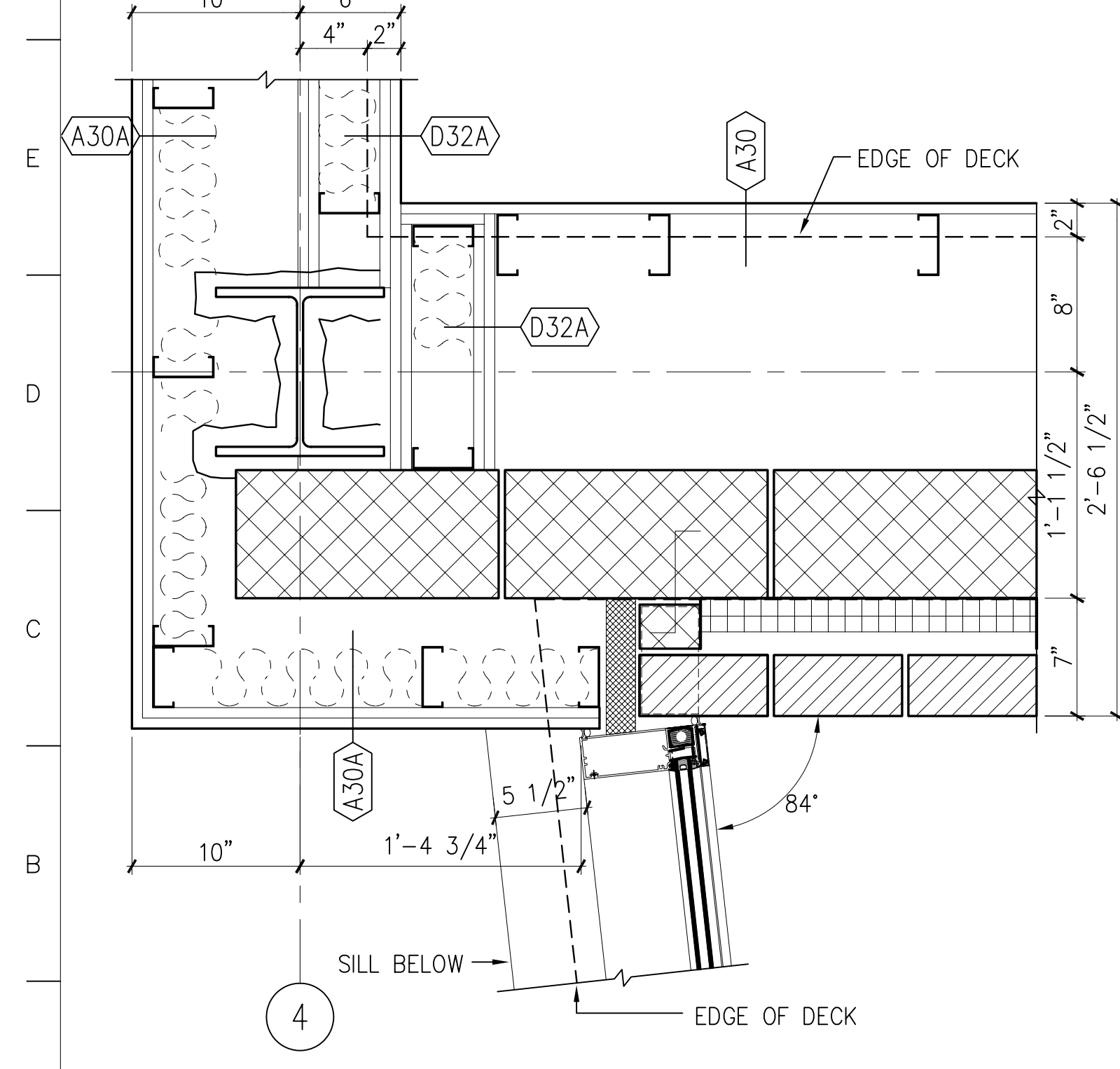


F1 DETAIL AT SECOND/THIRD FL.  
3" = 1'-0" A401

F5 DETAIL AT FOURTH FLOOR  
1 1/2" = 1'-0" A102, A103

F5 DTL. AT SECOND/THIRD FLOOR  
1 1/2" = 1'-0" A102, A103

F13 TYP. DETAIL AT SECOND/THIRD FLOOR  
1 1/2" = 1'-0" A102, A103



A1 DTL. AT 2nd AND 3rd FLOORS  
1-1/2" = 1'-0" A102, A103

A5 DTL. AT 2nd AND 3rd FLOORS  
1 1/2" = 1'-0" A102, A103

A9 DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A101

A13 TYPICAL DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A101

MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
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- 5F ALUM. LADDER
- 5G PTD. ALUM. MAST AND TRIM
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- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
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- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8K TEMPERED GLASS (thickness)
- 8L INSULATING GLASS UNIT (Ref. to Schedule)
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- 9B EXTRUDED ALUM. REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9K RESILIENT BASE
- 9L PAINT (Color-Ref. to Schedule)
- 9M EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES

MONTGOMERY COLLEGE  
APPROVAL

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

Horizontal Details  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

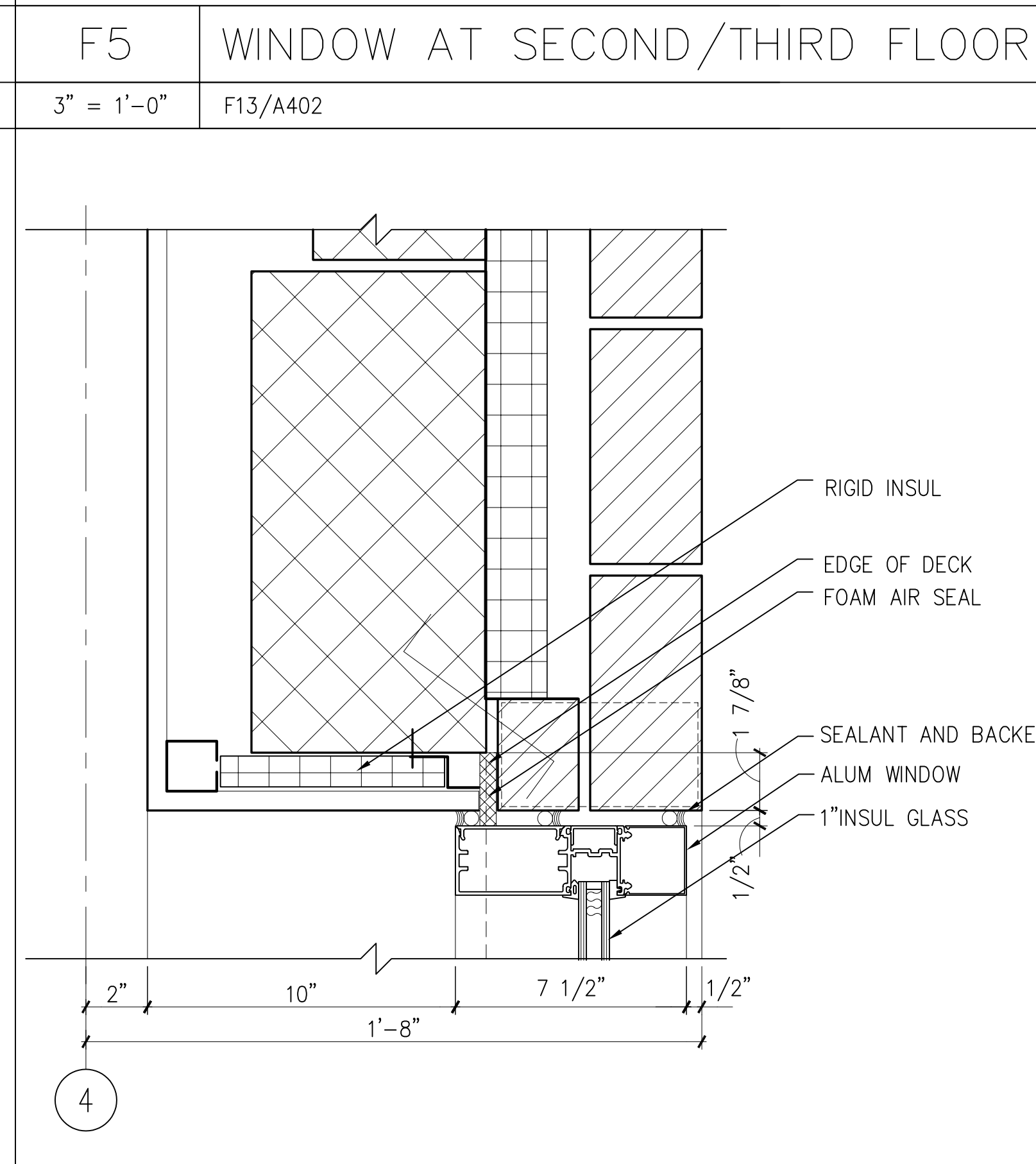
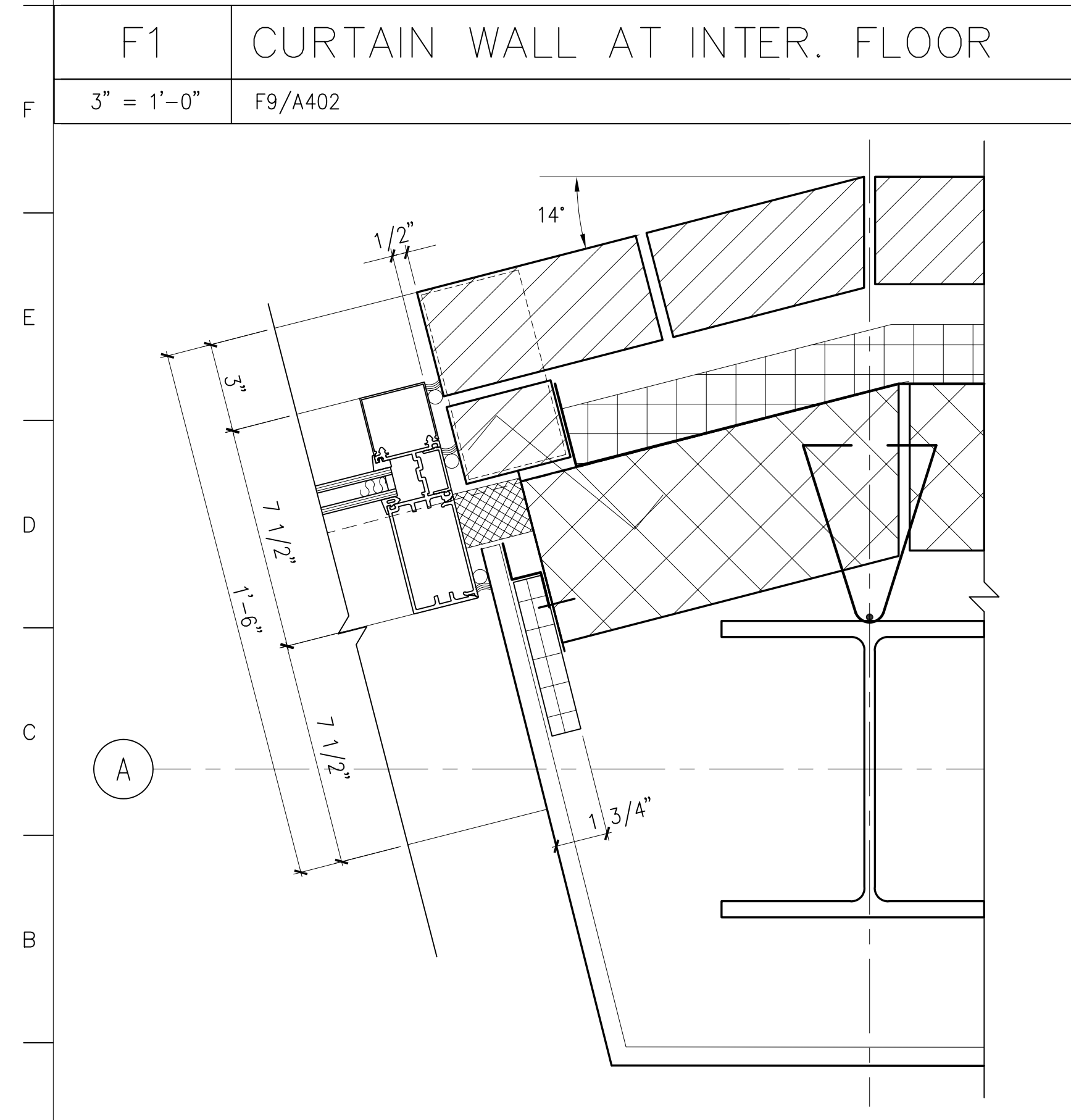
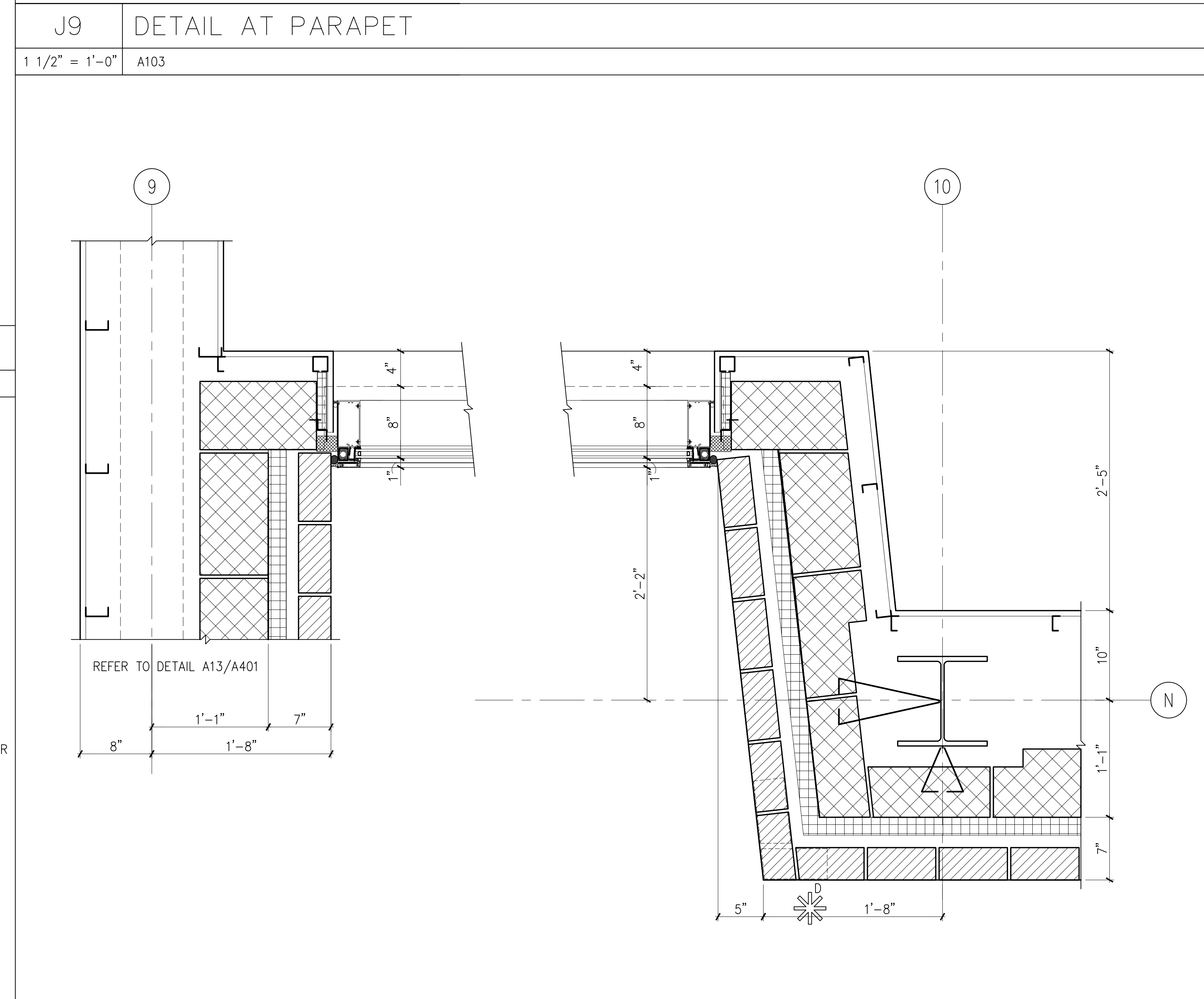
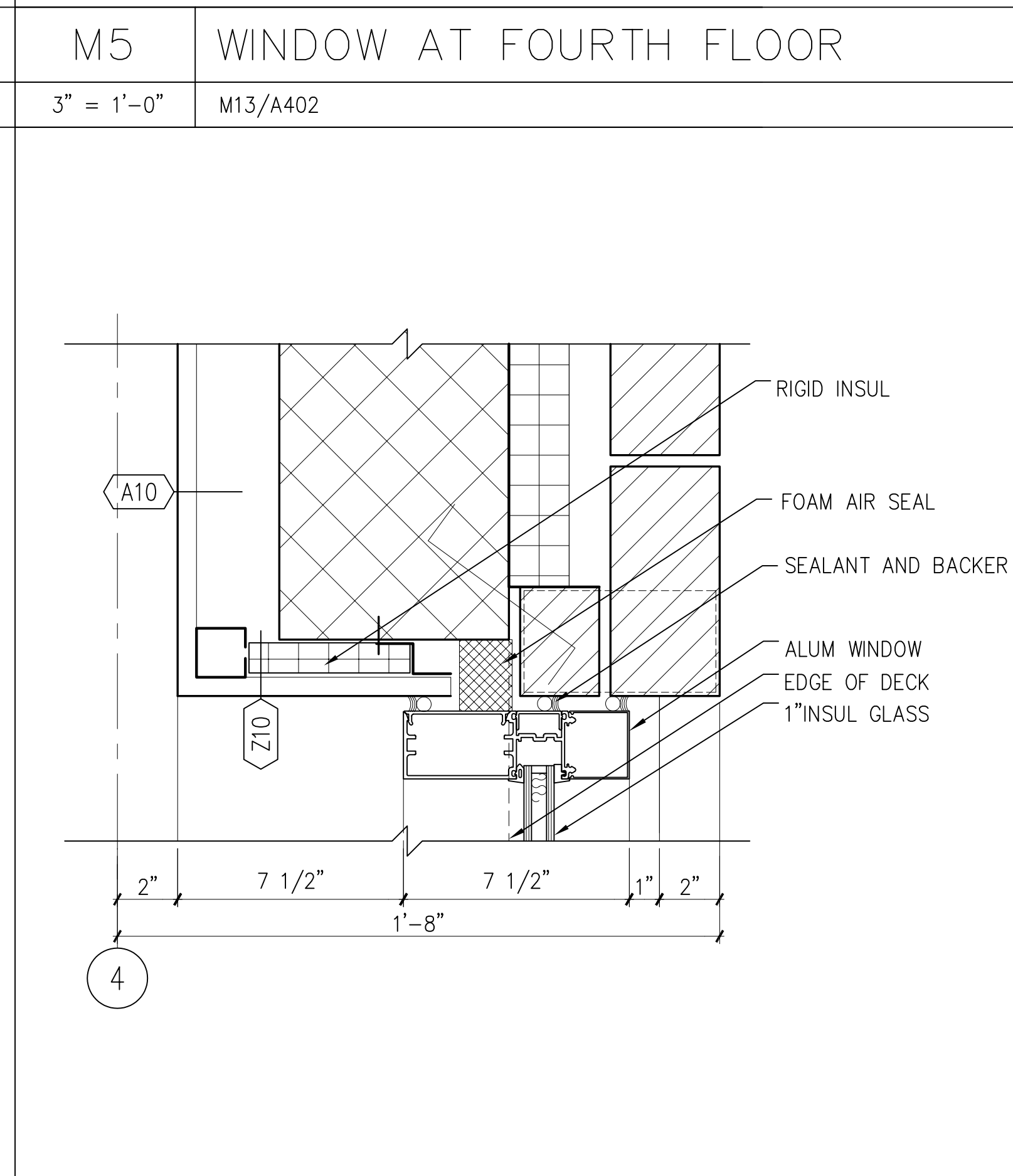
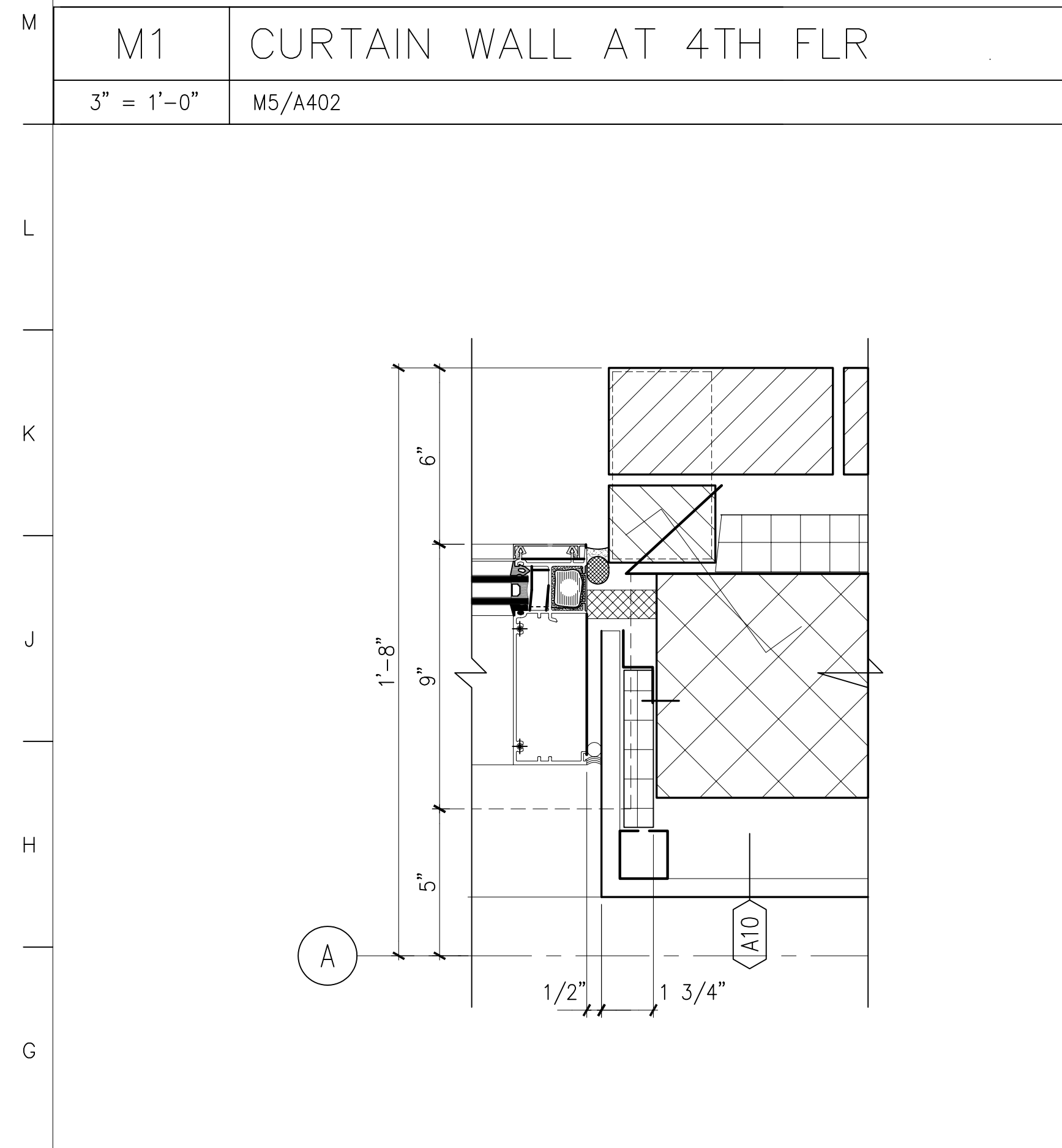
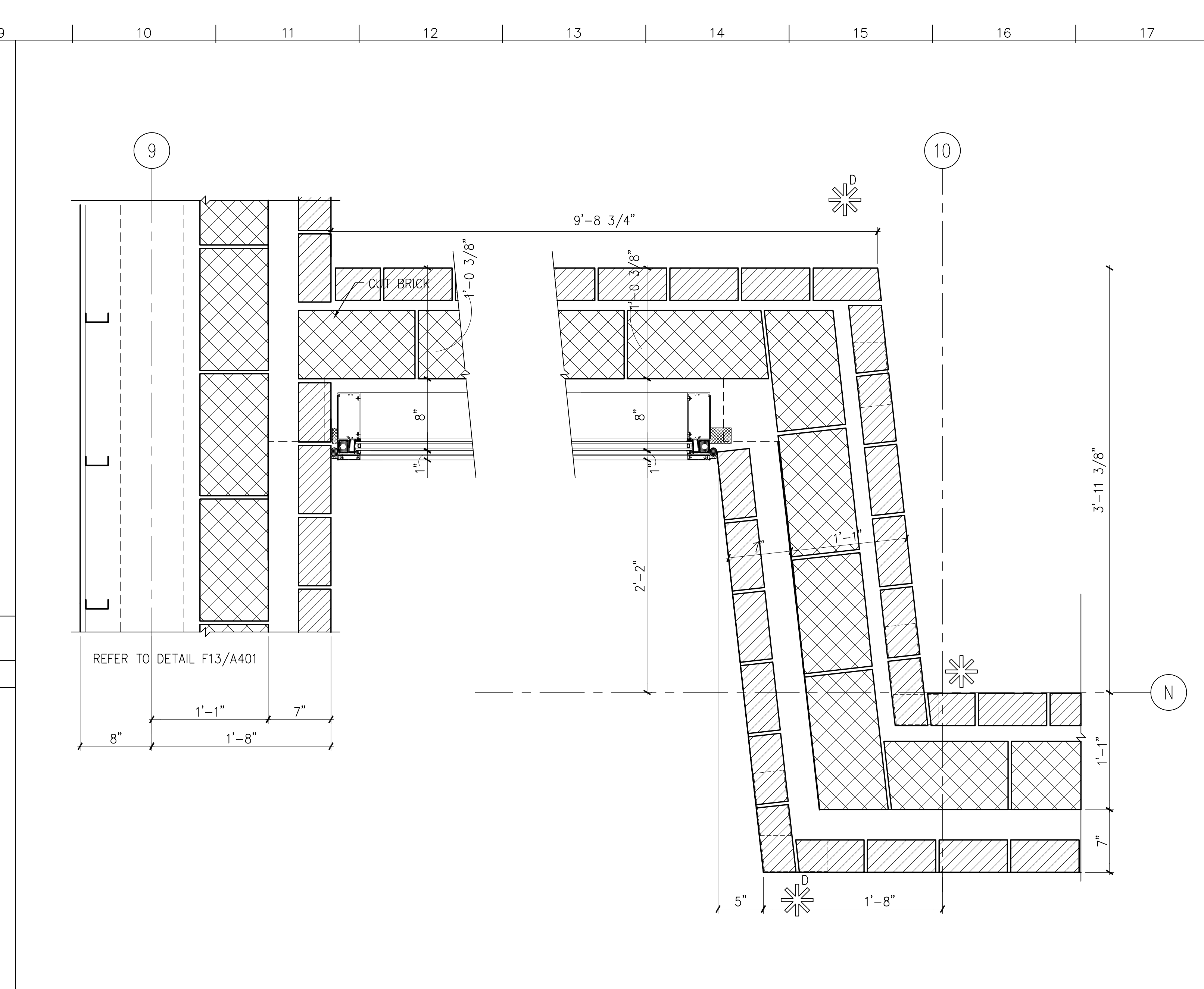
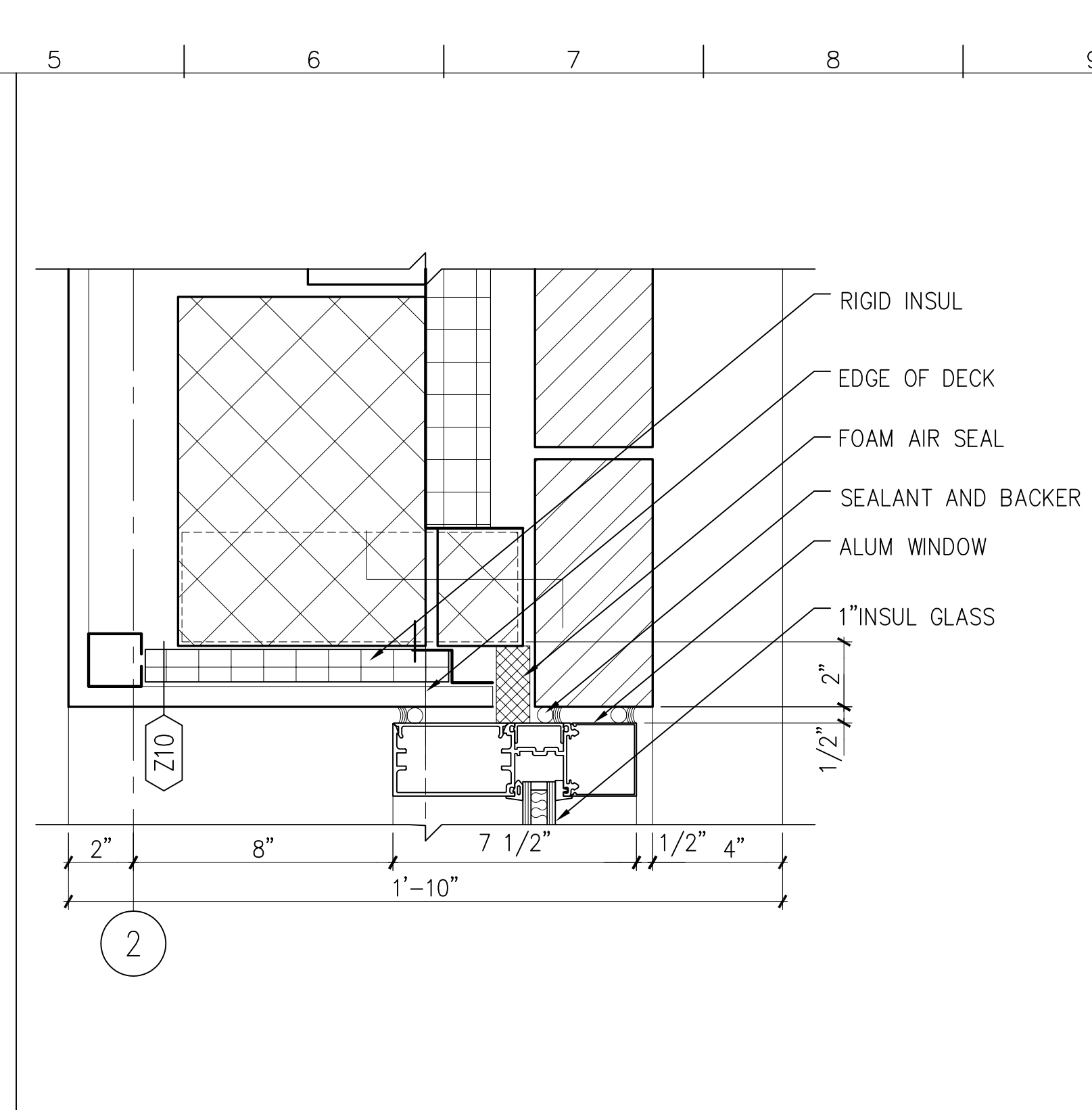
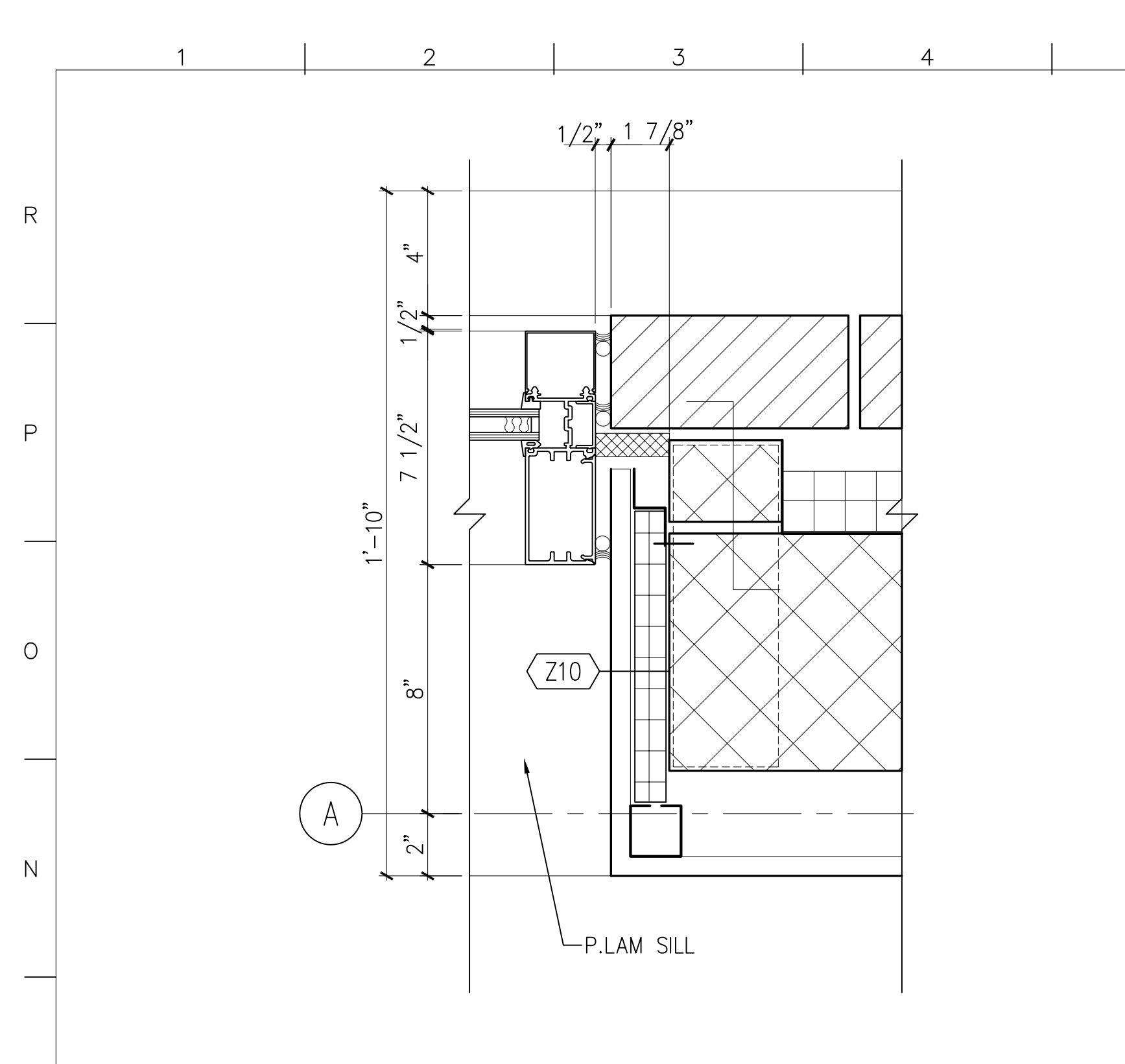
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-977/98-318

PROJECT NO. 34495.01  
DATE: 2/20/02  
A404  
SHEET 1 OF 22

no.	revisions/submissions	date

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Printed by Eng. E.





MATERIAL KEYED NOTES	
3A	CONCRETE STRUCTURE
3B	CONCRETE SLAB ON GRADE
3C	CONCRETE SLAB ON METAL DECK
3D	SLAB EDGE
4A	FACE BRICK ON CMU, (COLOR 1)
4B	FACE BRICK ON CMU, (COLOR 2)
4B1	8" X 8" FACE BRICK ON CMU, (COLOR 2)
4C	ARCH. PRECAST CONCRETE, SEE NOTE 2
4D	GLASS BLOCK
4E	CONCRETE MASONRY UNIT
4F	THROUGH WALL FLASHING
4G	HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
4H	CAVITY WALL INSULATION (2" U.N.O.)
5A	STRUCTURAL STEEL
5B	METAL DECK
5C	COLD FORMED METAL FRAMING
5D	GALV. STEEL RELIEVING ANGLE/LINTEL
5E	STEEL RAILING SYSTEM
5F	ALUM. LADDER
5G	PTD. ALUM MAST AND TRIM
5H	STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
6A	WOOD BLOCKING (FIRE RETARDANT TREATED)
6B	WOOD TRIM
6C	ARCHITECTURAL WOODWORK
7A	SPRAY-ON FIREPROOFING
7B	BUILT-UP ROOFING SYSTEM
7C	PERIMETER INSULATION (2")
7D	INSULATED METAL PANEL
7E	METAL FLASHING
7F	2 PIECE METAL RECEIVER & COUNTERFLASHING
7G	FORMED ALUMINUM COPING
7H	SELF-ADHERING SHEET WATERPROOFING SYSTEM
8A	ALUMINUM WINDOW SYSTEM
8B	ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
8C	ALUMINUM CURTAIN WALL
8D	HOLLOW METAL FRAME
8E	HOLLOW METAL DOOR
8F	WOOD DOOR
8G	ROOF HATCH
8H	TEMPERED GLASS (thickness)
8I	INSULATING GLASS UNIT (Ref. to Schedule)
9A	GYPSUM BOARD (5/8")
9B	EXTRUDED ALUM REVEAL MOULDING (dim)
9C	EXTERIOR GYPSUM SOFFIT
9D	SUSPENDED ACOUSTIC PANEL CEILING
9E	METAL STUDS
9F	WALL GUARDS (TYPE)
9G	CERAMIC TILE
9H	VINYL COMPOSITION TILE
9I	SHEET VINYL FLOORING
9K	RESILIENT BASE
9L	PAINT (Color-Ref. to Schedule)
9M	EPOXY PAINT (Color-Ref. to Schedule)
10A	VISUAL DISPLAY BOARD
10B	TOILET COMPARTMENTS
10C	ALUMINUM LOUVER
10D	CUBICLE CURTAIN & TRACK
10E	METAL LOCKER
10F	FIRE EXTINGUISHER AND CABINET
10G	OPERABLE PARTITION
10H	TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
11A	RECESSED, MOTORIZED PROJECTION SCREEN
11B	MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
12A	RECESSED ENTRANCE MAT AND FRAME
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12C	WINDOW TREATMENT - SUN SHADING
14A	HYDRAULIC ELEVATOR
15A	HVAC DUCTWORK - REF. TO MECH. DWGS.
16A	LIGHTING FIXTURE - REF. TO ELECT. DWGS.
	REFER TO A406 FOR SPECIAL BRICK TYPES
	SPECIAL BRICK SHAPE

A1 CURTAIN WALL AT INTER. FLOOR  
3" = 1'-0" A9/A402

A5 WINDOW AT FIRST FLOOR  
3" = 1'-0" A13/A402

A9 DETAIL AT FIRST/SECOND FLOOR  
1 1/2" = 1'-0" A101, A102

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

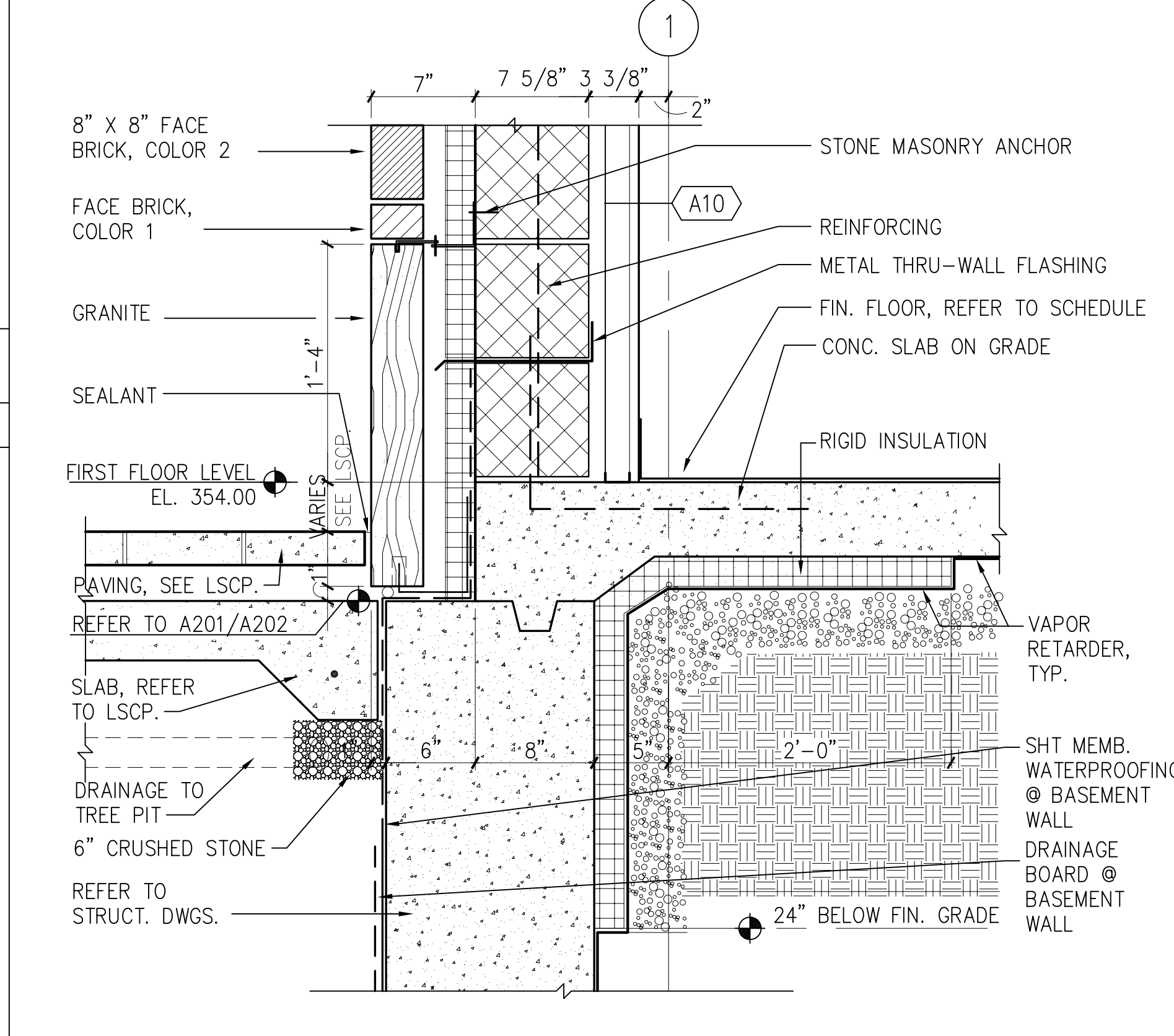
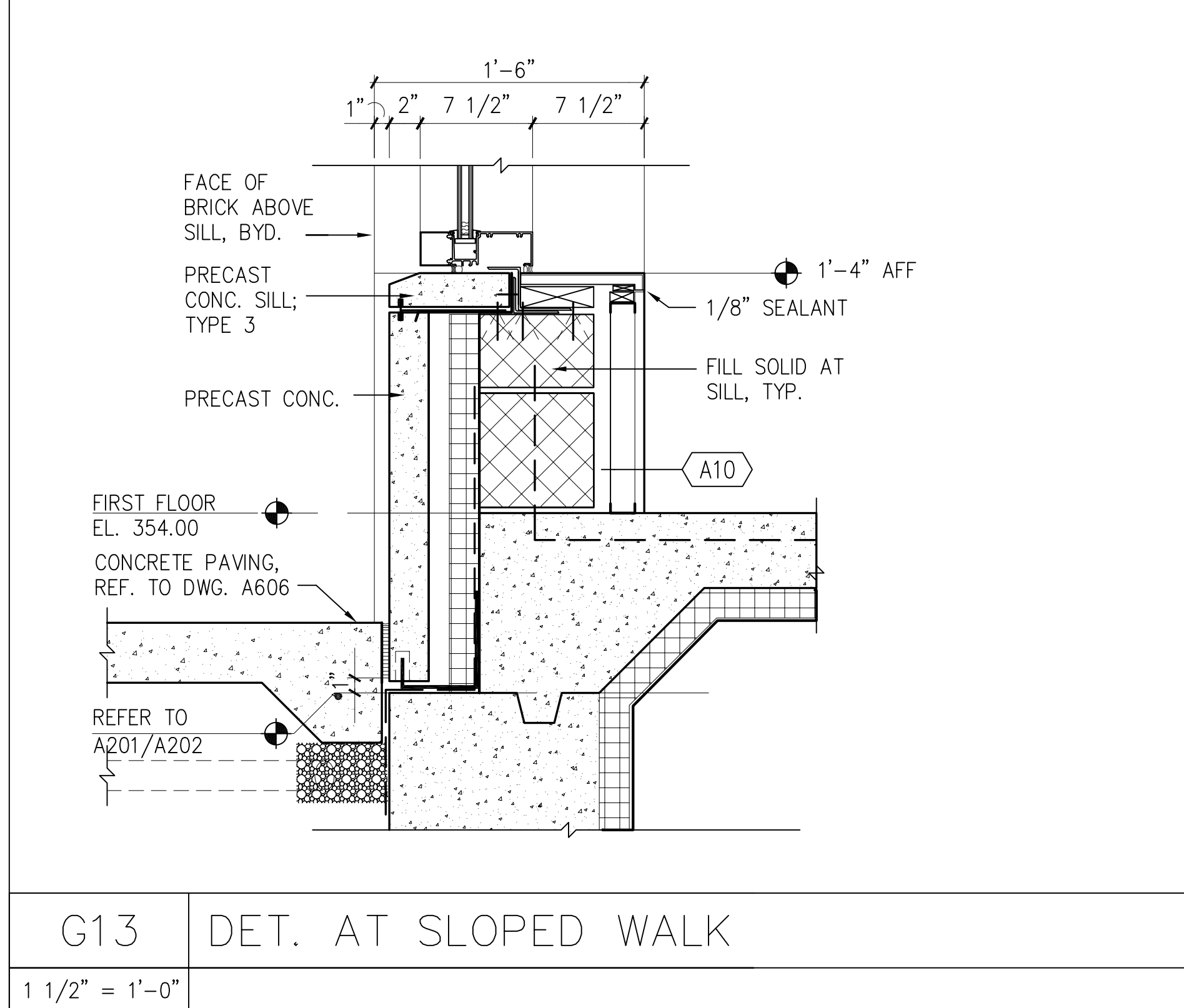
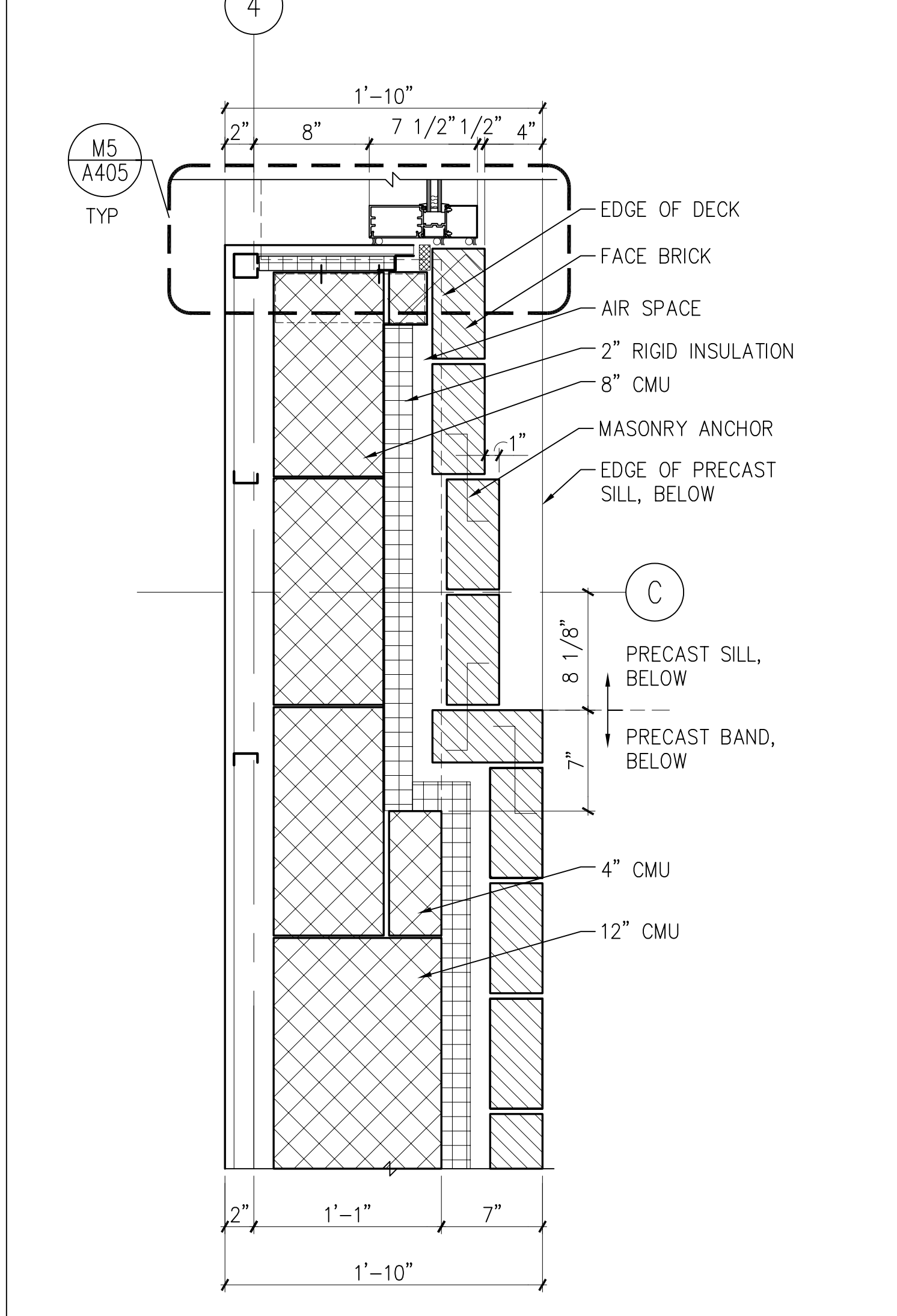
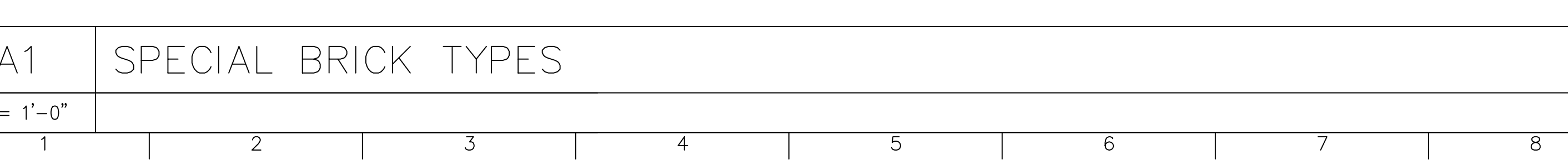
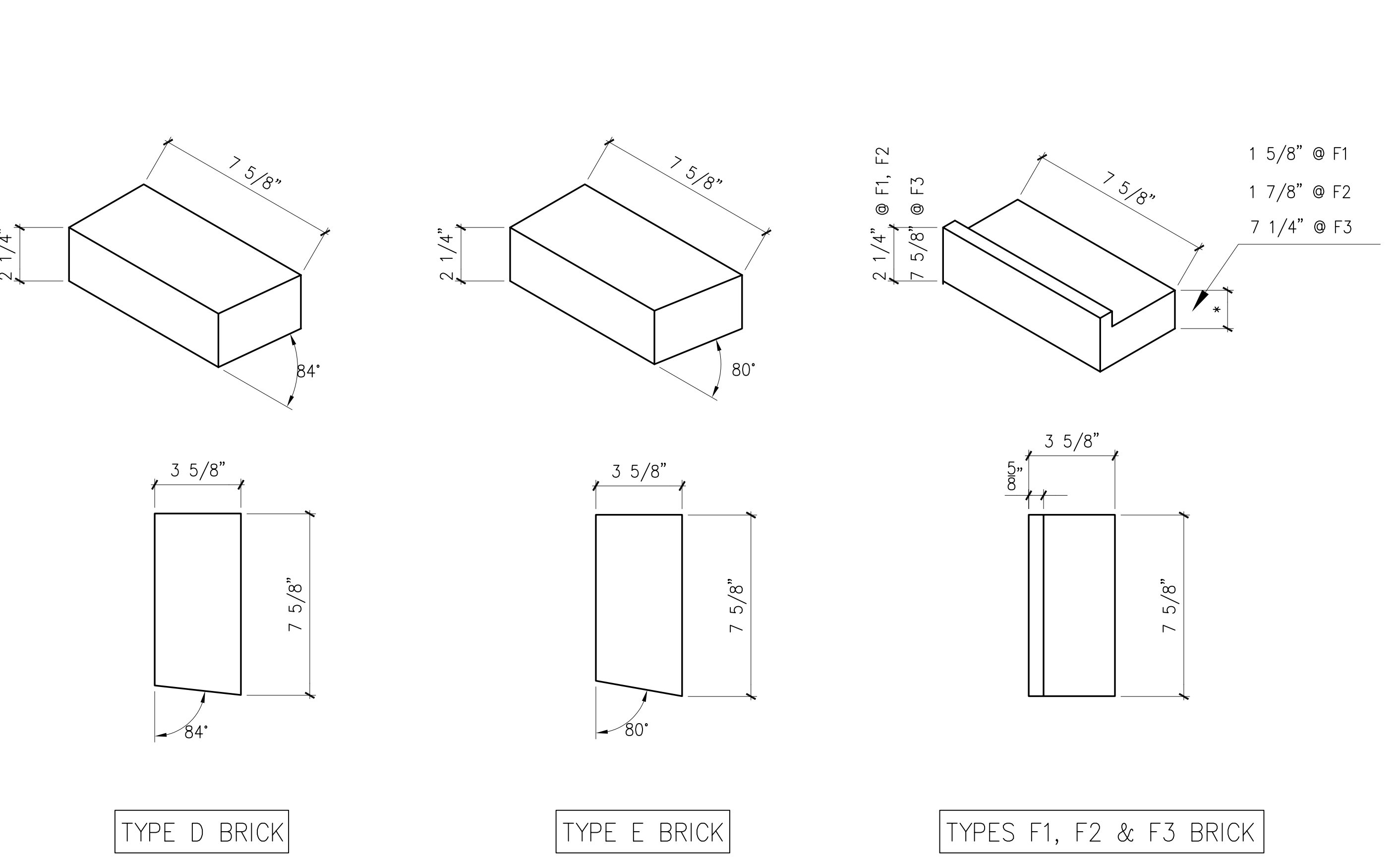
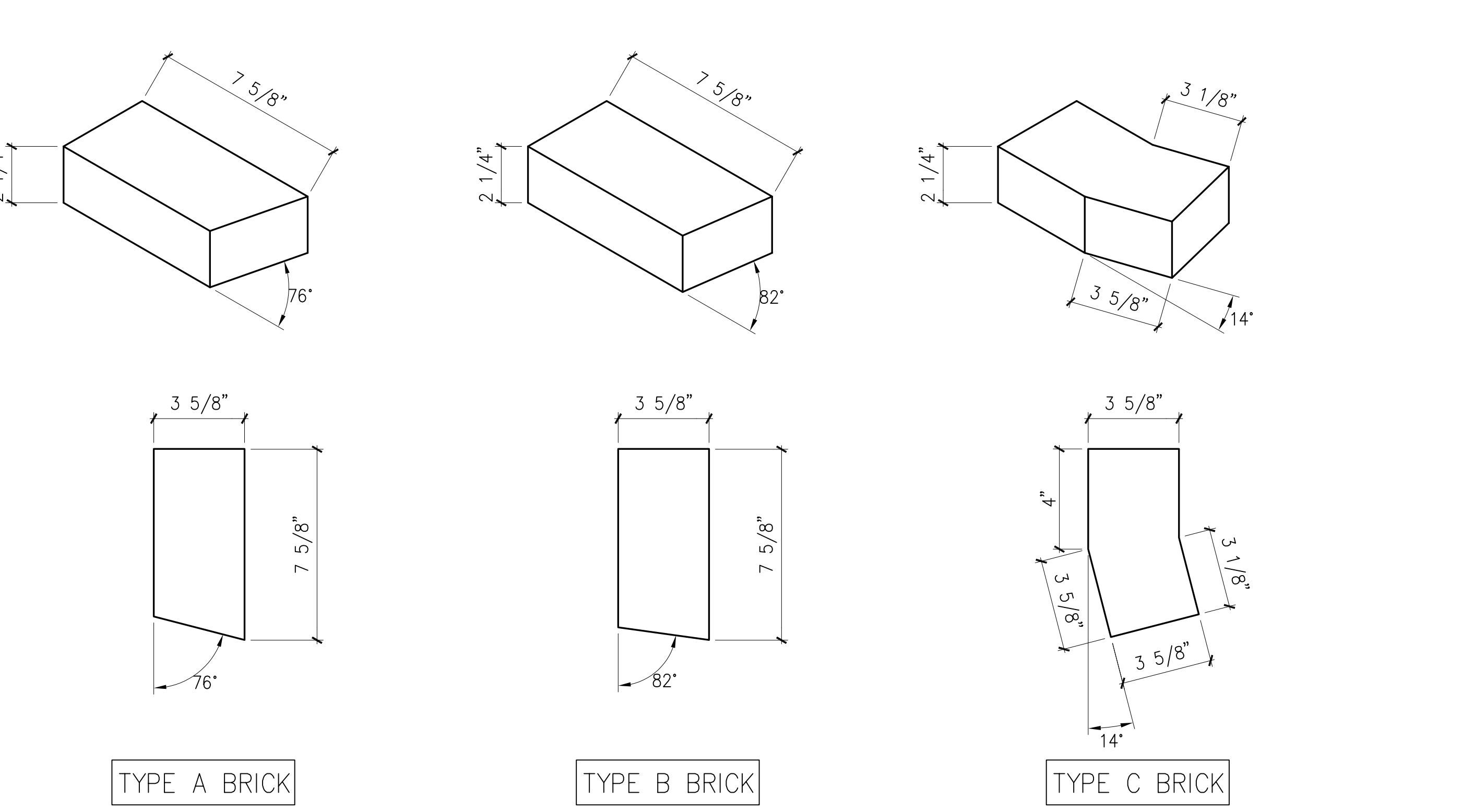
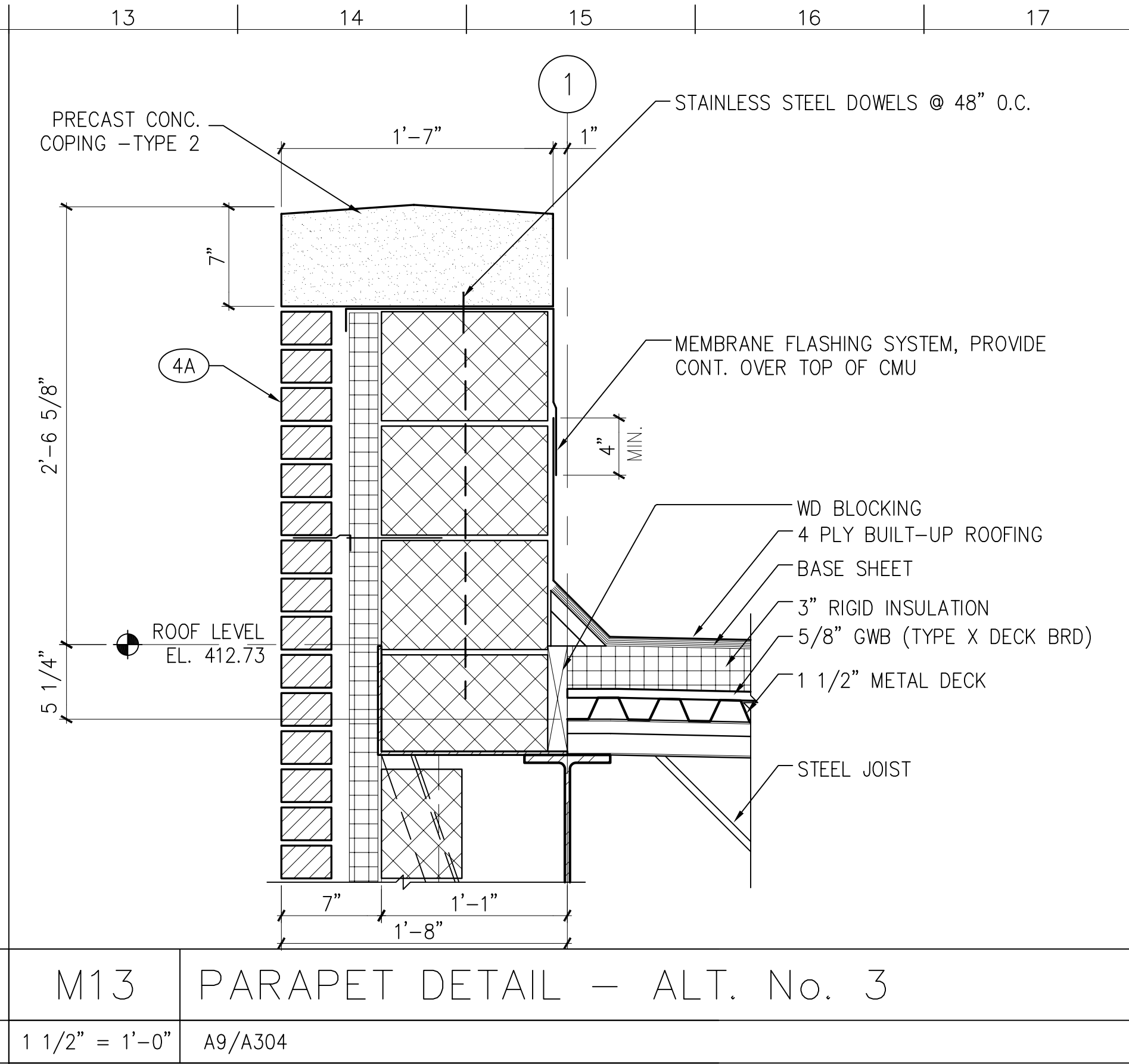
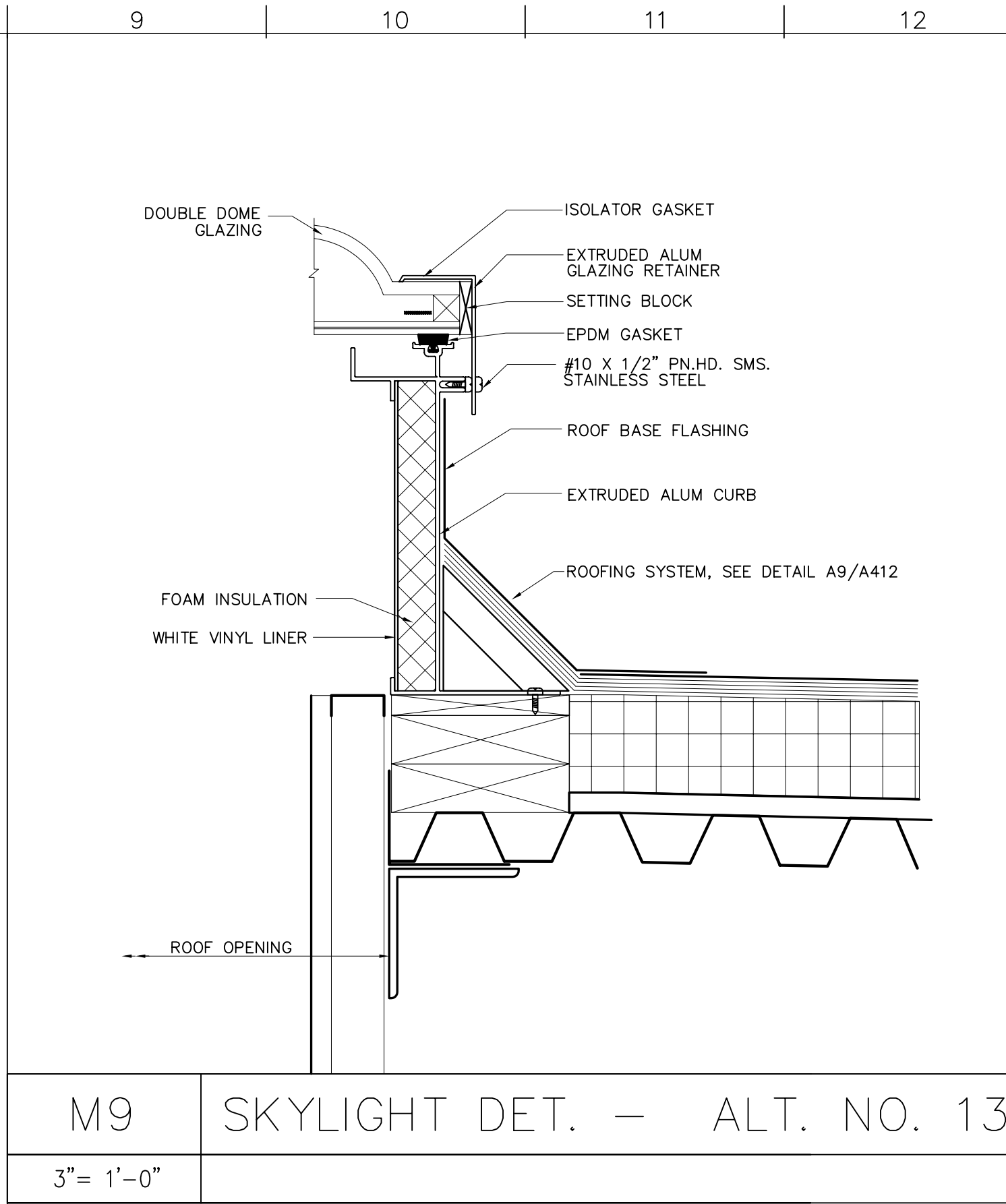
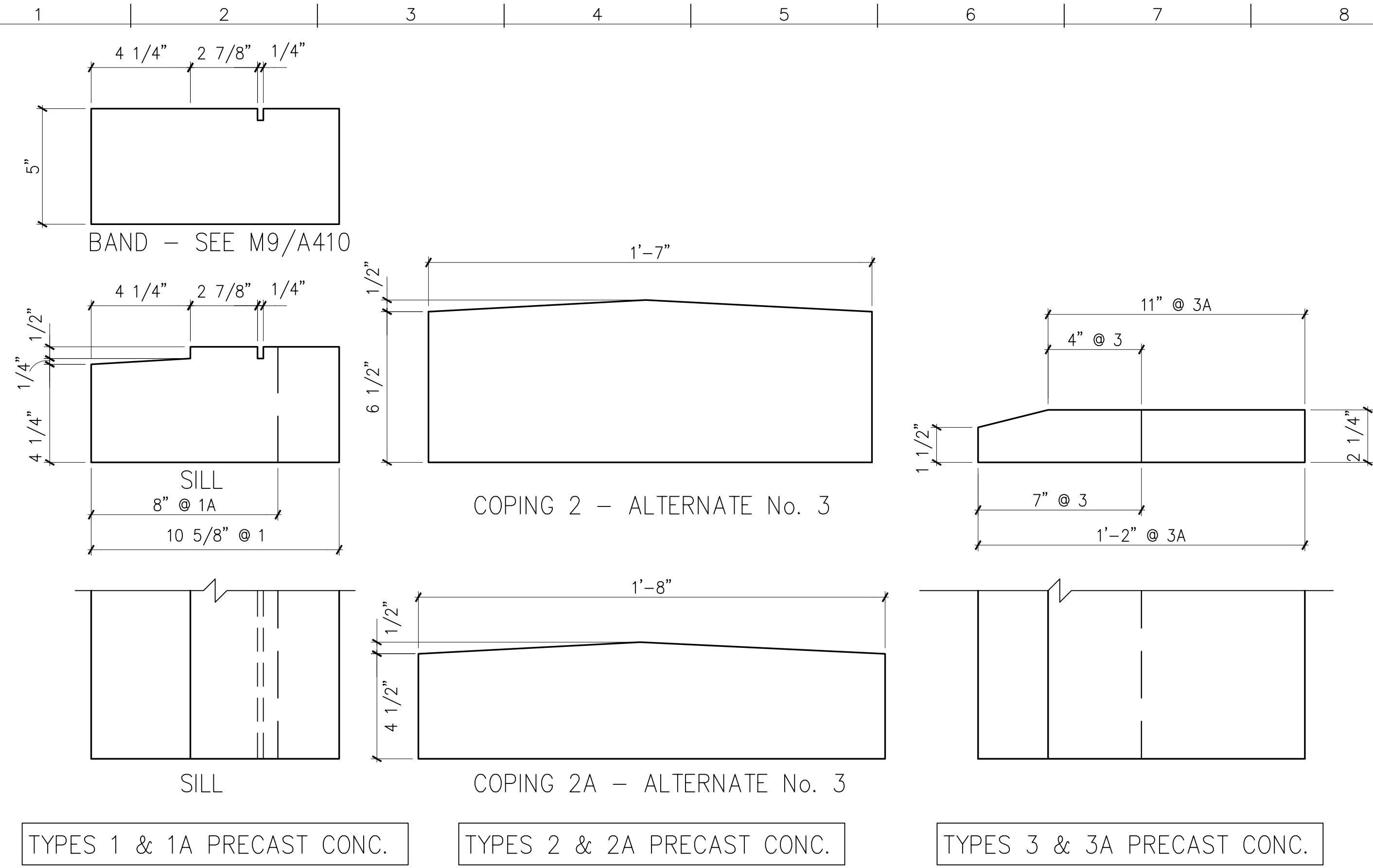
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PROJECT NO. 34495.01  
DATE: 2/20/02  
A405  
SHEET X OF XX

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PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

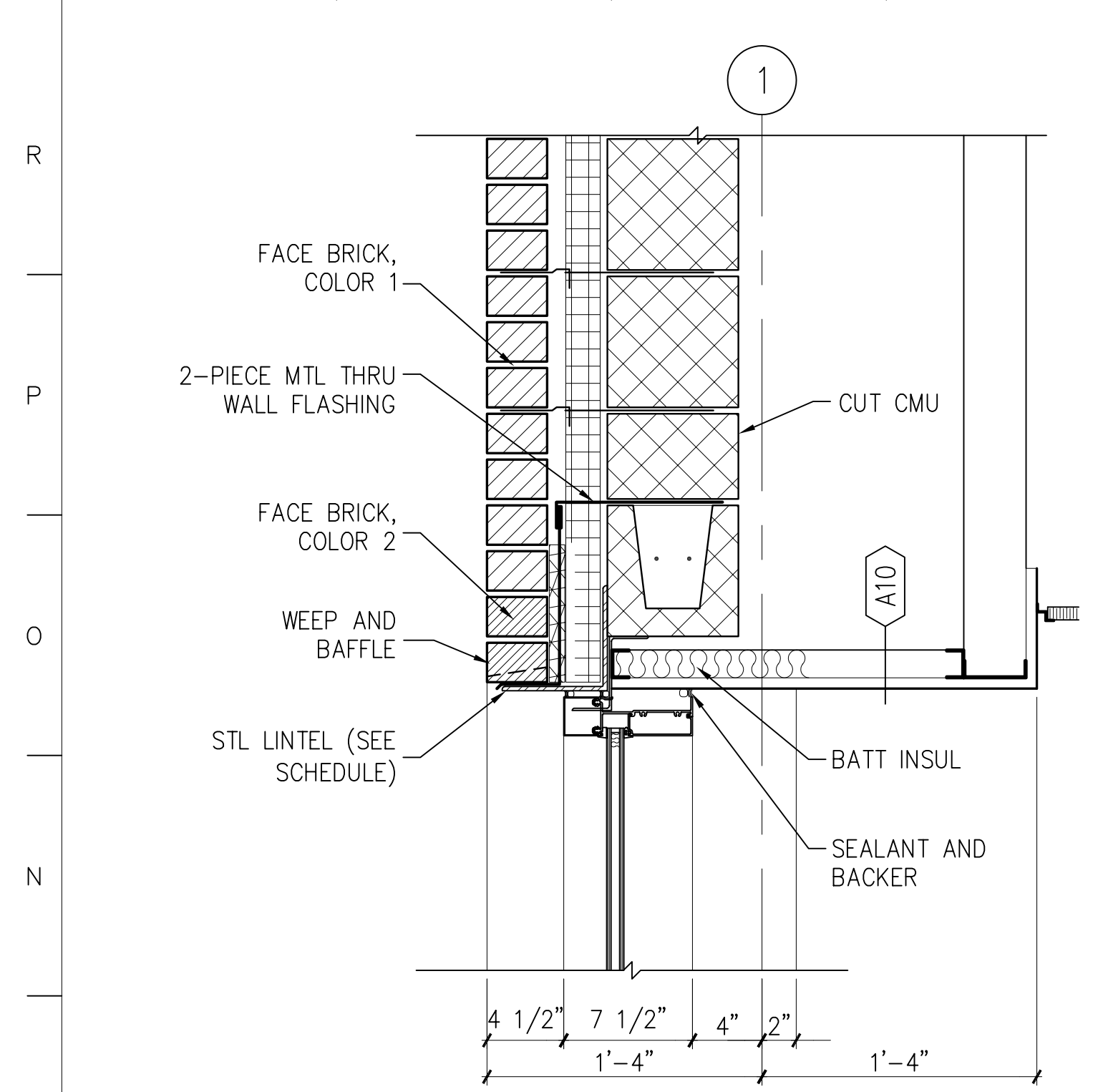
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DATE

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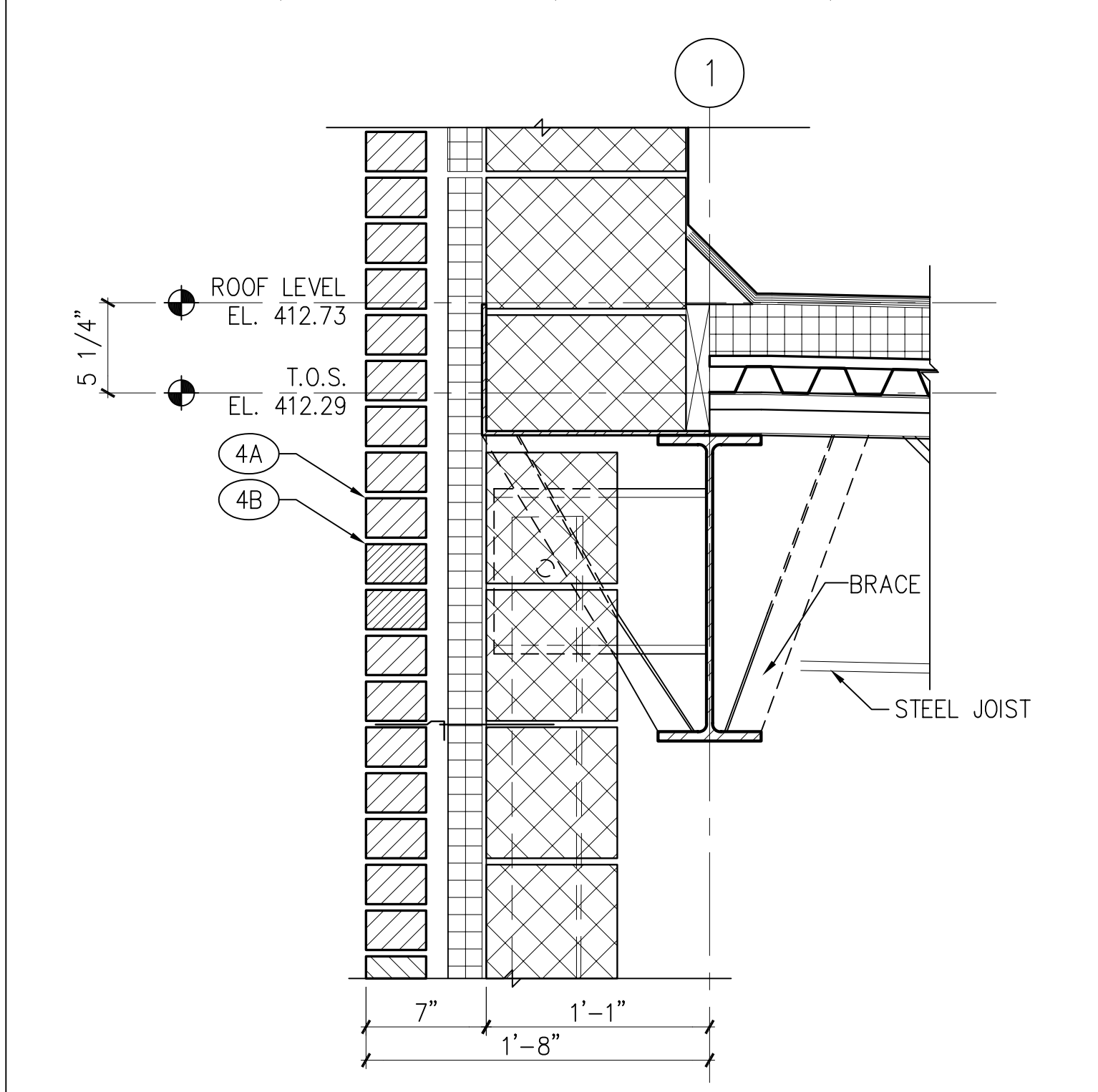


no.			revisions/submissions	date
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<p>HEALTH SCIENCES BUILDING          MONTGOMERY COLLEGE          SILVER SPRING, MARYLAND          PROJECT # CC-01-MC-97/98-318</p>				
<p>EXTERIOR DETAILS          MONTGOMERY COLLEGE          Takoma Park Campus Expansion          13th Election District          Montgomery County, Maryland</p>				
DEPARTMENT OF GENERAL SERVICES APPROVAL			PROJECT MANAGER	DATE
MONTGOMERY COLLEGE APPROVAL			CHIEF - PROJ. MGT. & DESIGN	DATE
			TITLE	DATE

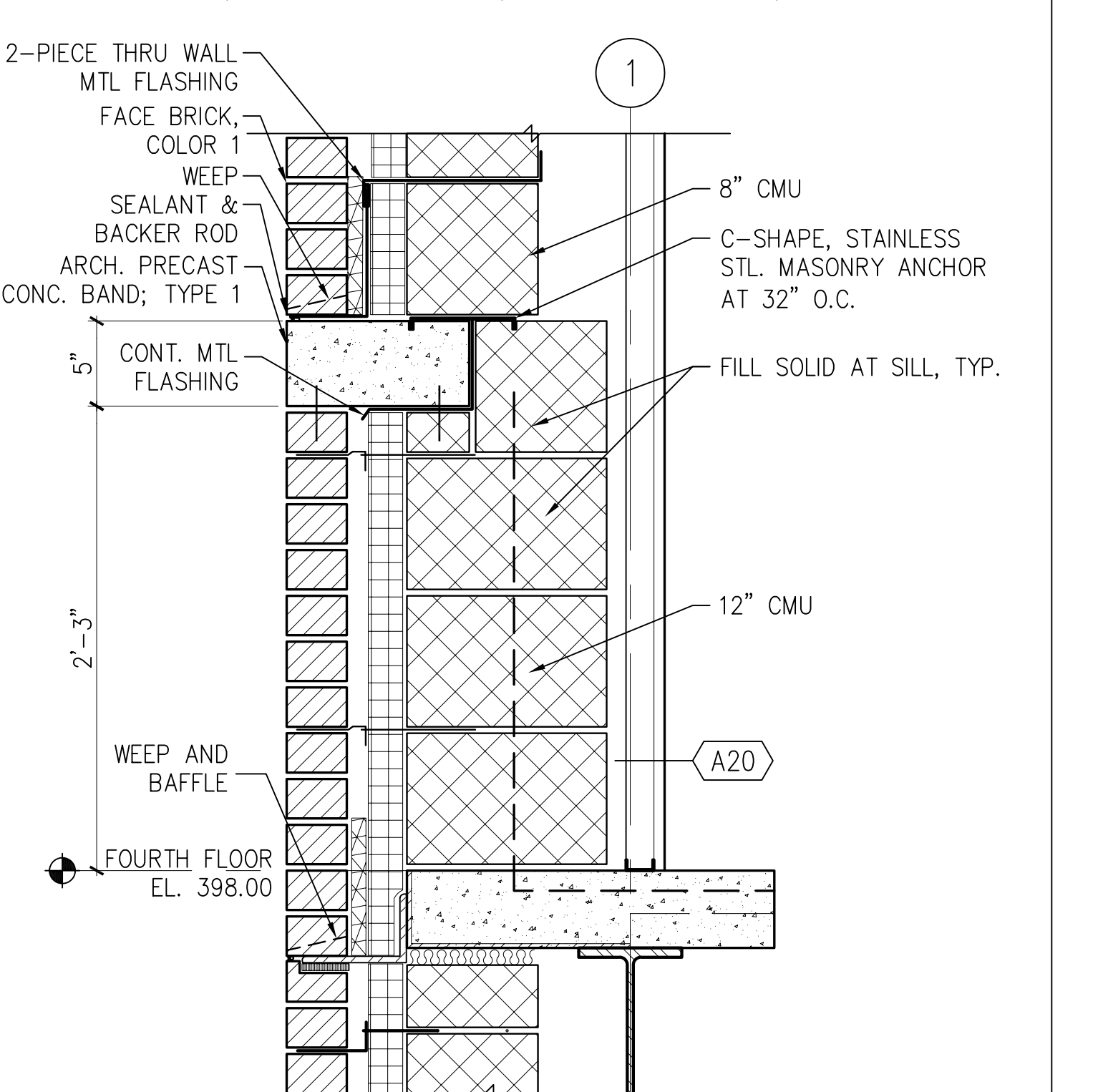
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M1 HEAD DETAIL AT FIRST FLOOR  
1 1/2" = 1'-0" A14/A304



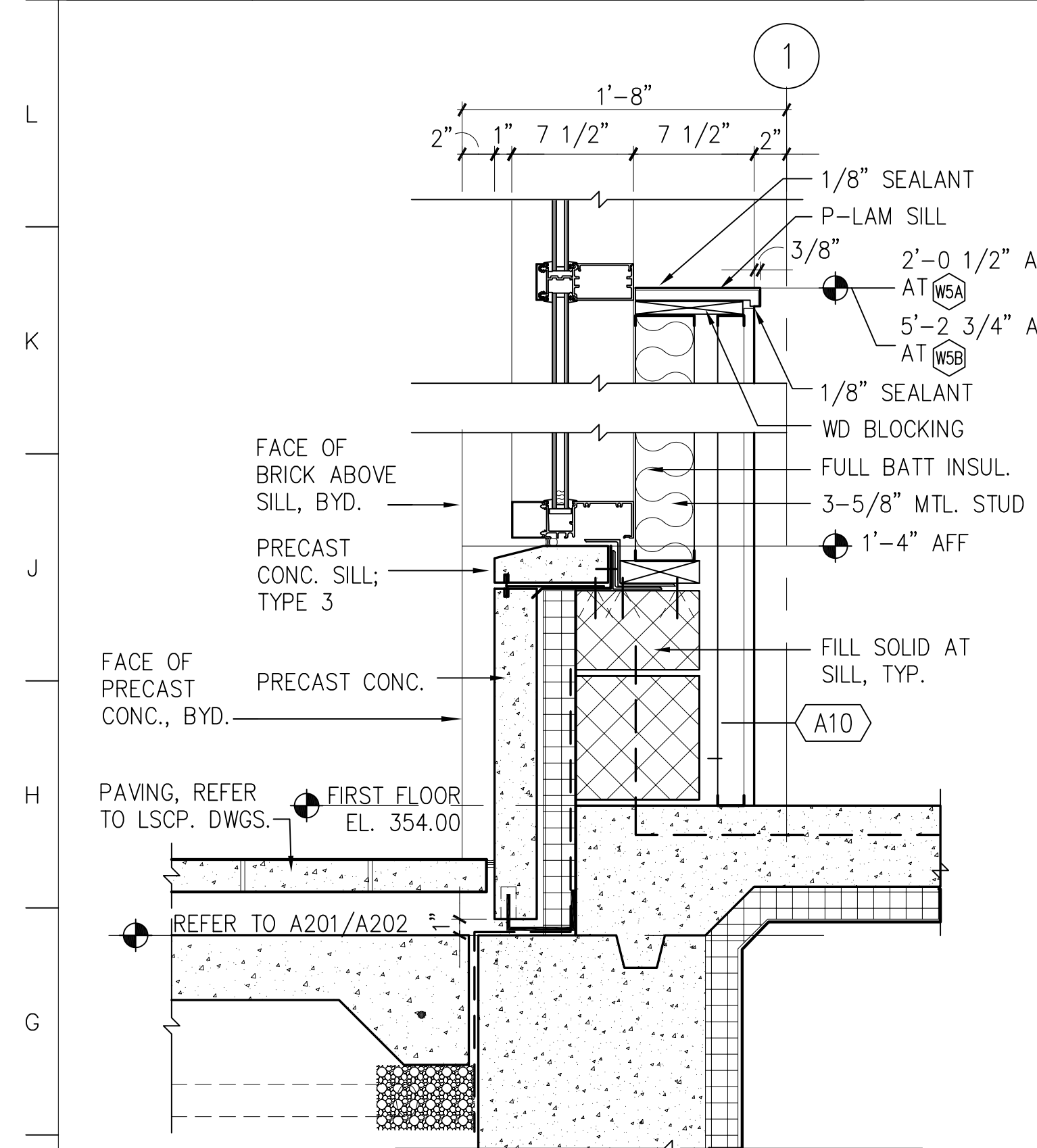
M5 DETAIL AT ROOF  
1 1/2" = 1'-0" A13/A303



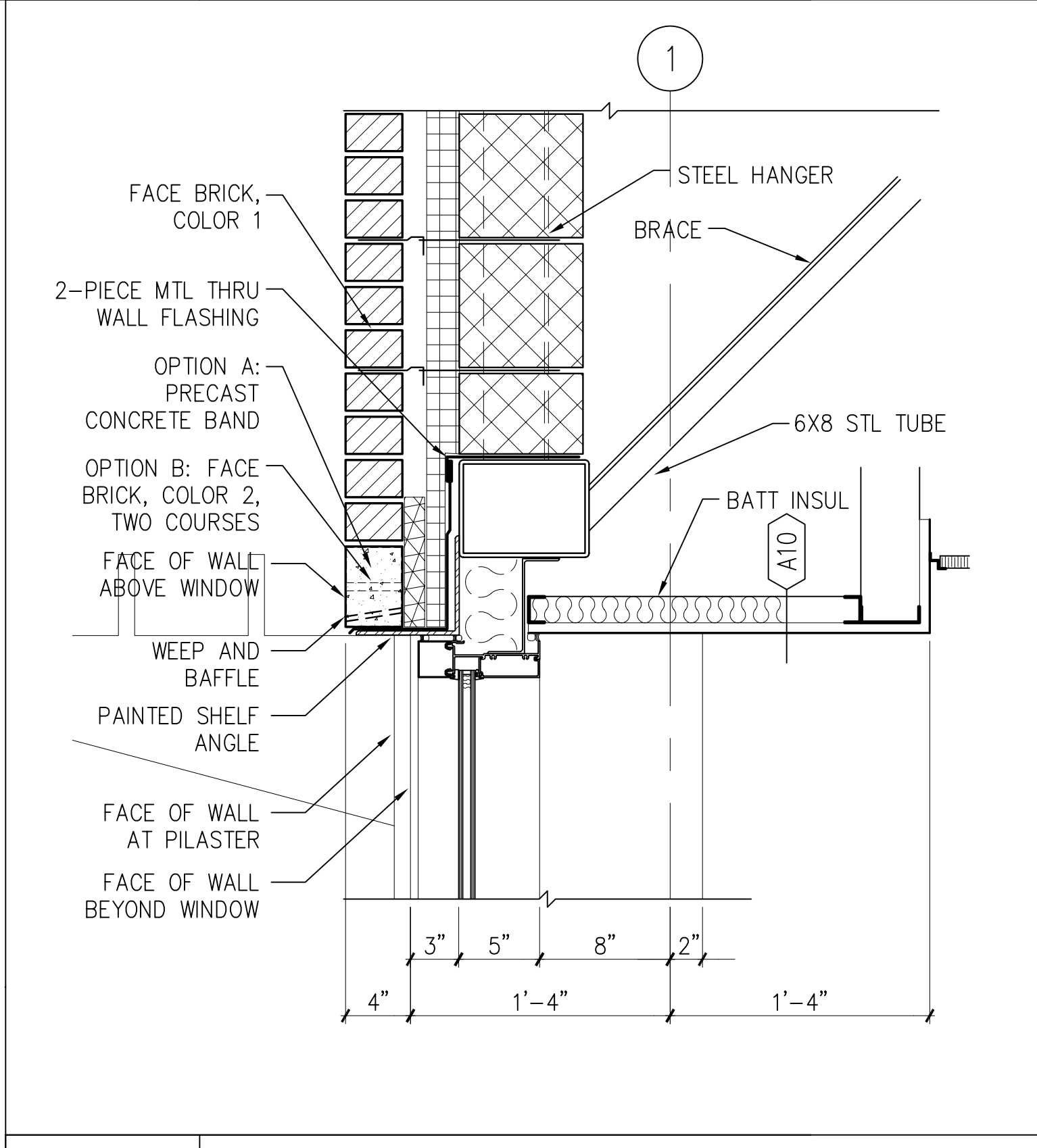
M9 DETAIL AT FOURTH FLOOR  
1 1/2" = 1'-0" A11/A304



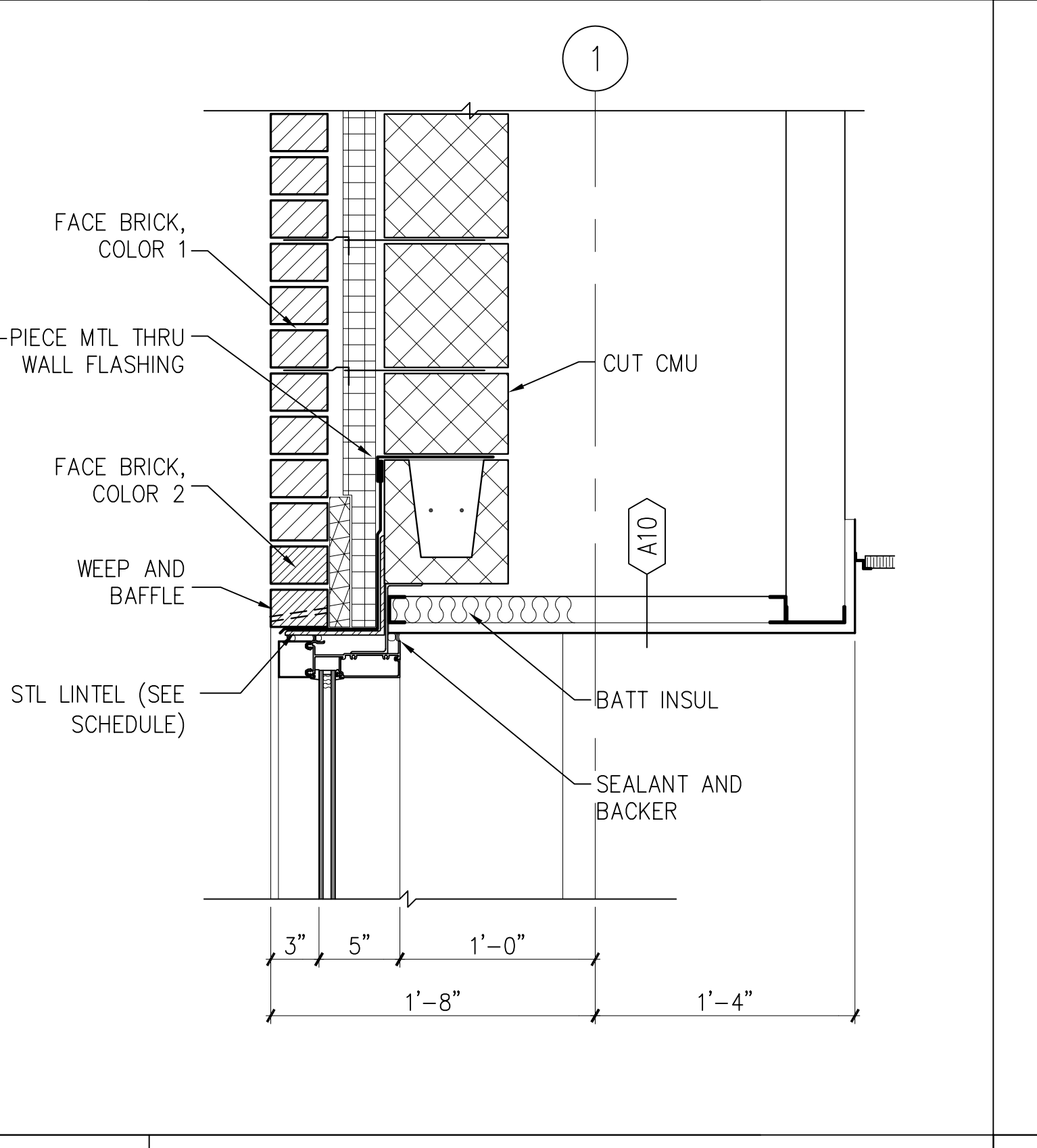
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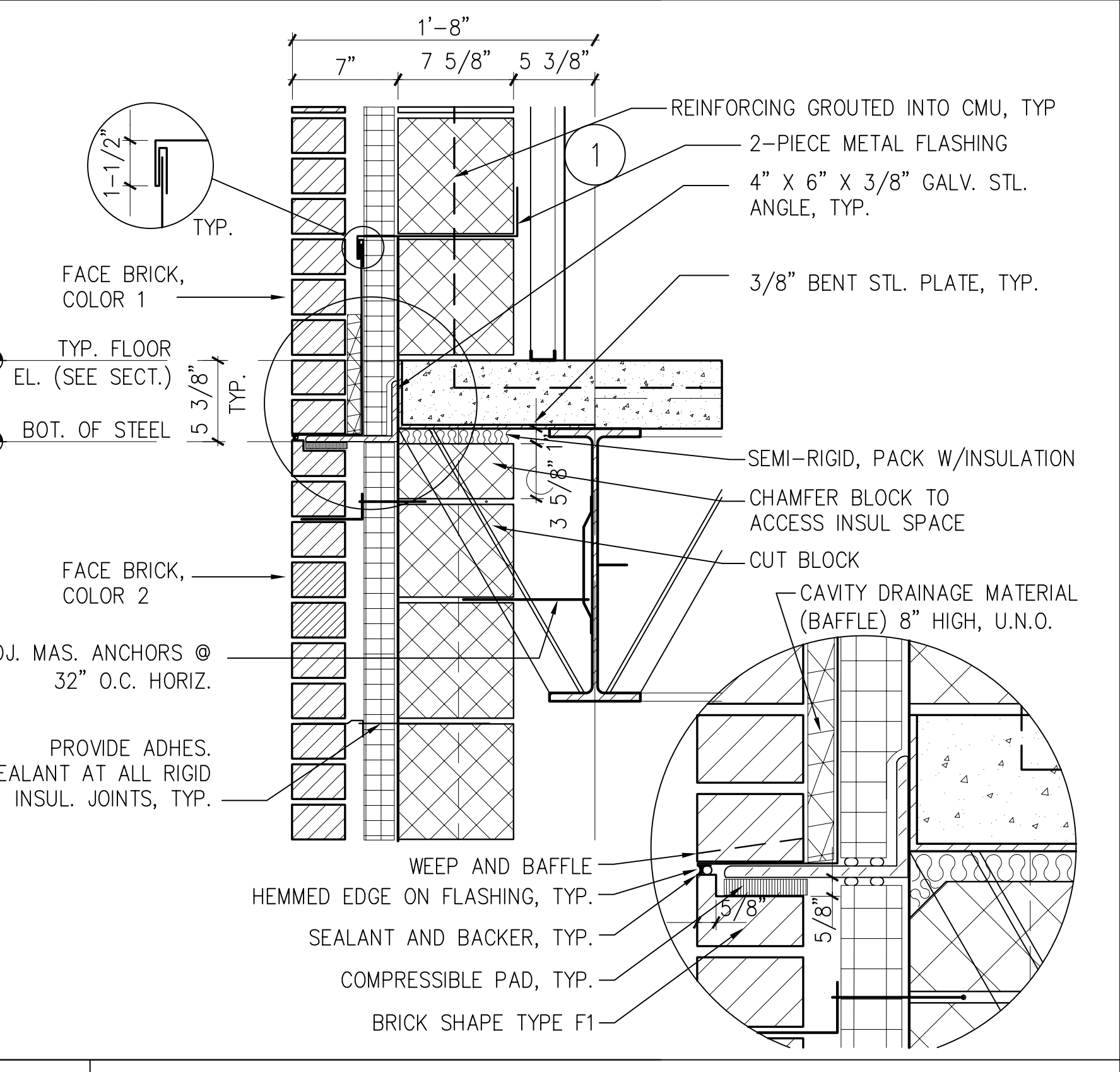
DETAIL AT WINDOW TYPES W5A AND W5B



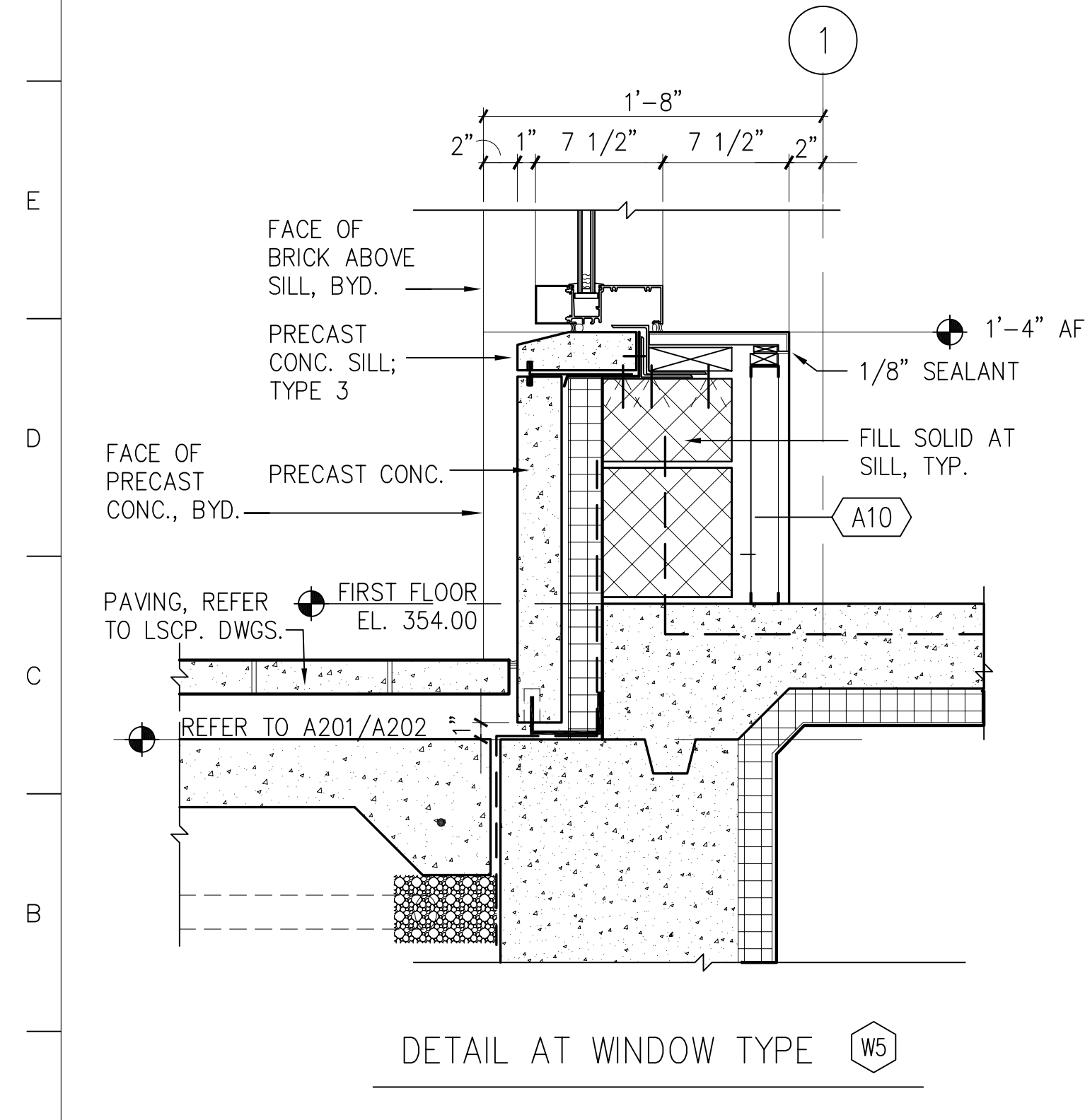
F5 HEAD DETAIL AT FOURTH FLOOR  
1 1/2" = 1'-0" A13/A303



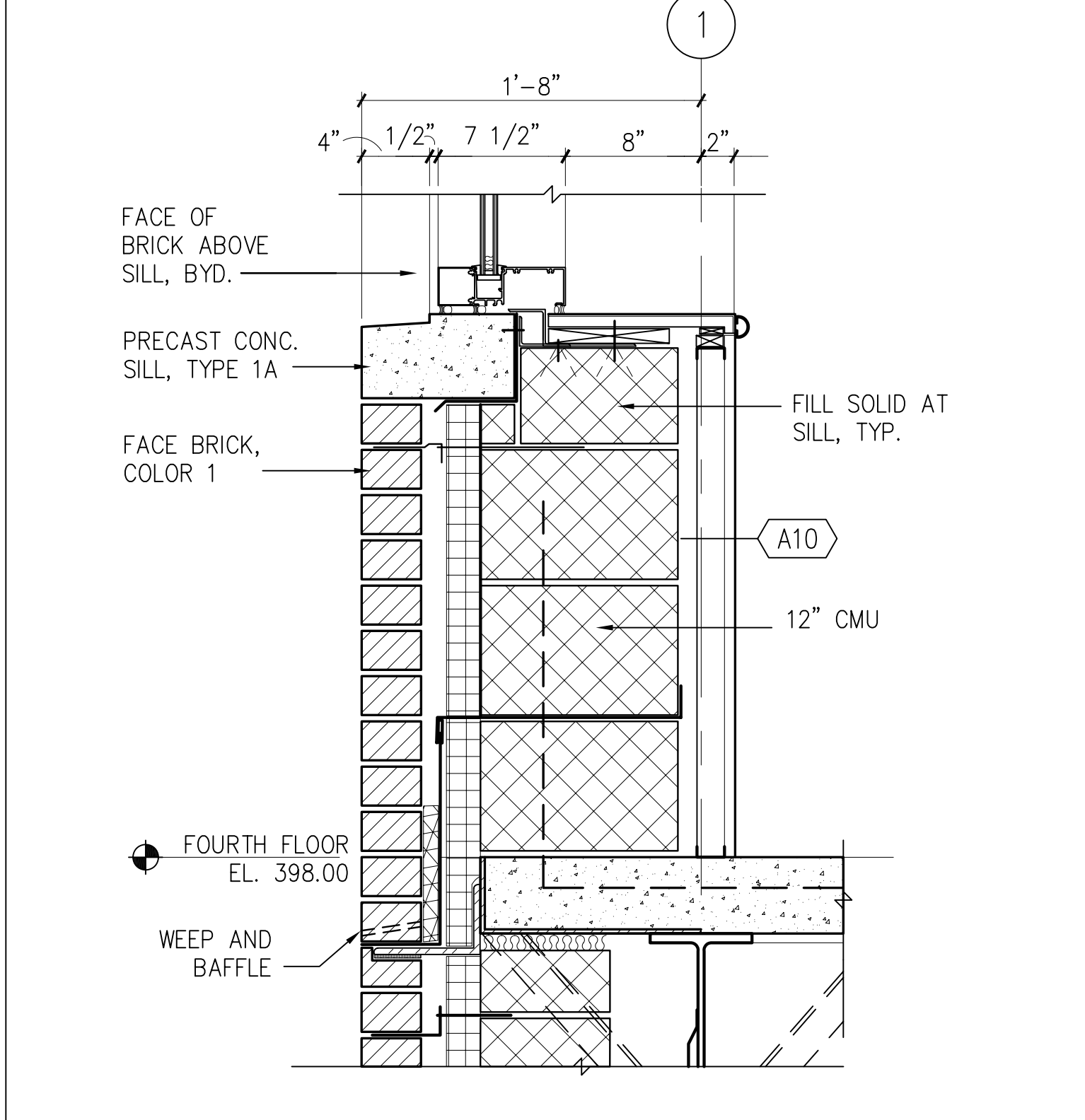
F9 HEAD DTL. AT INTERMEDIATE FL.  
1 1/2" = 1'-0" A13/A303



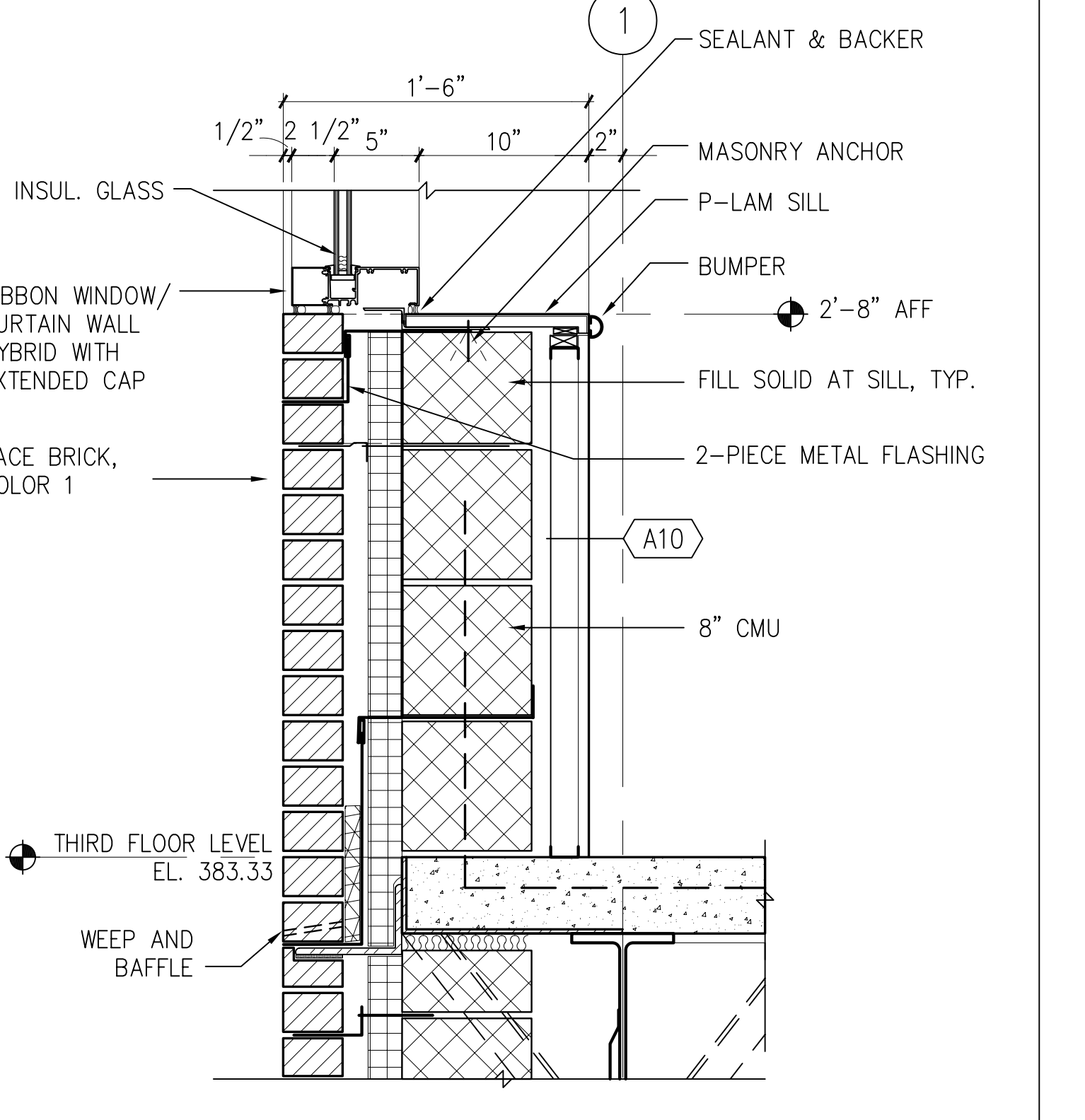
F13 DETAIL AT INTERMEDIATE FLOOR  
1 1/2" = 1'-0" A11/A304



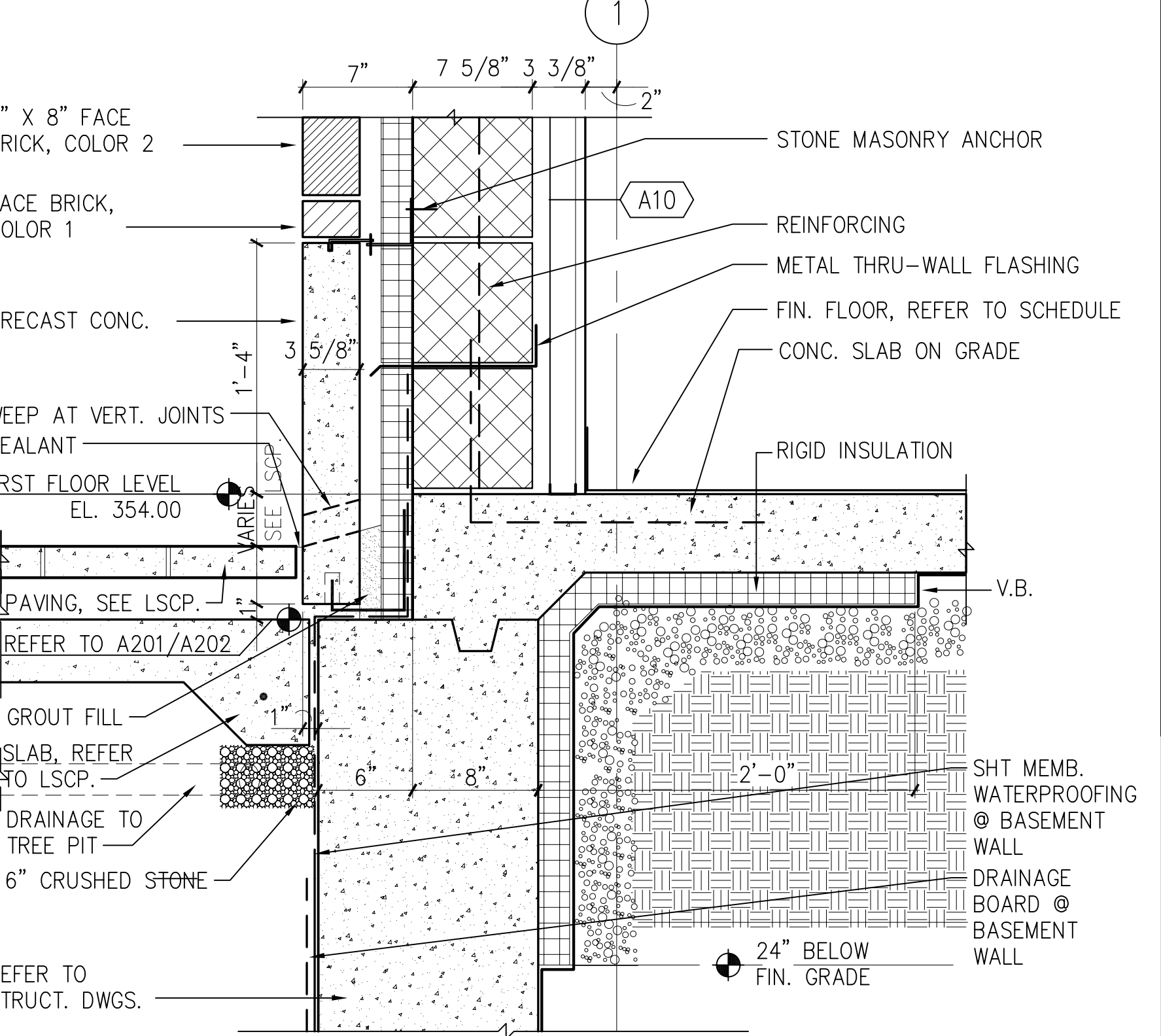
DETAIL AT WINDOW TYPE W5



A5 SILL DETAIL AT FOURTH FLOOR  
1 1/2" = 1'-0" A13/A303



A9 SILL DTL. AT INTERMEDIATE FL.  
1 1/2" = 1'-0" A13/A303



A13 DETAIL AT GRADE  
1 1/2" = 1'-0" A11/A304

no.	revisions/submissions	date

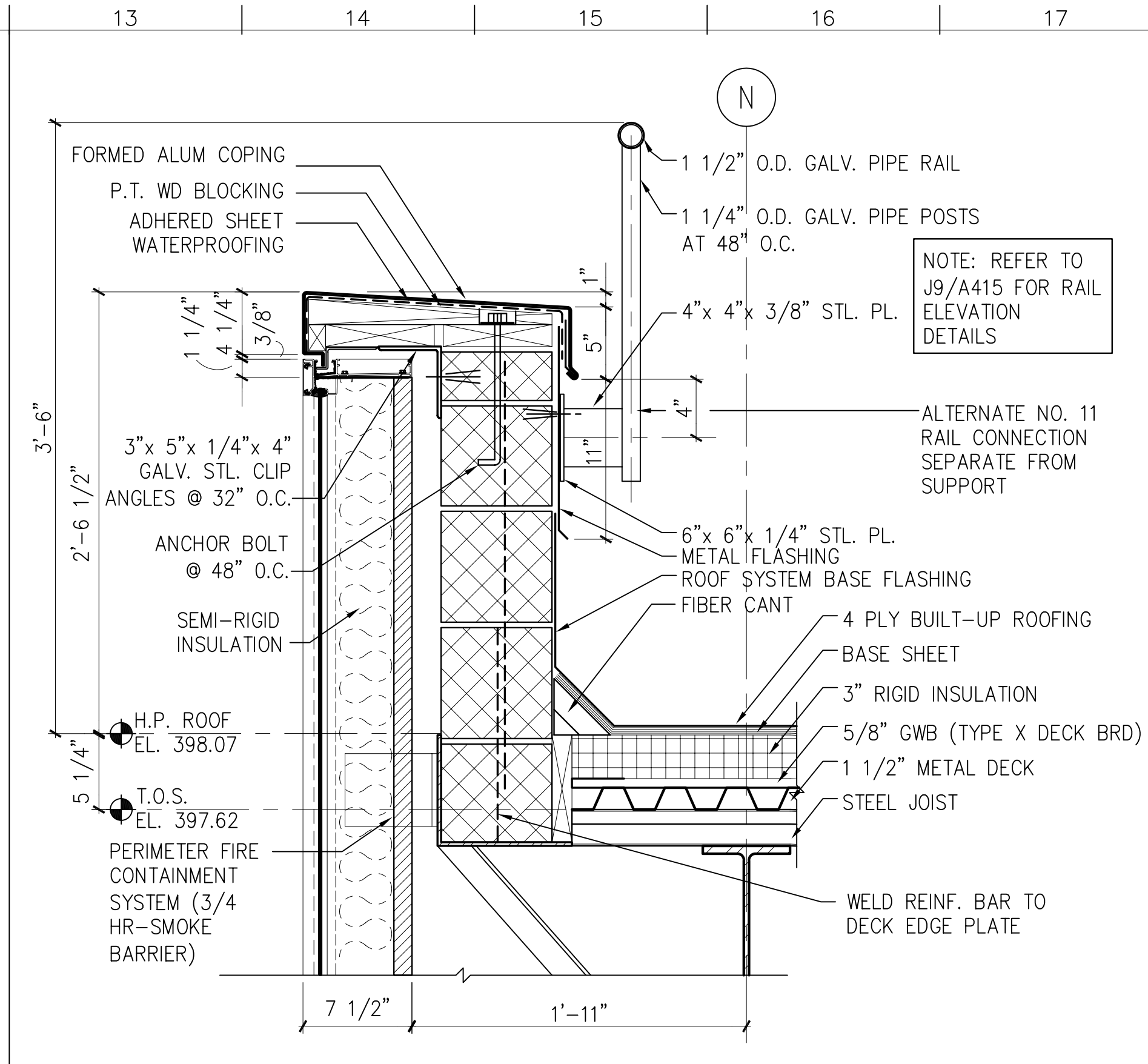
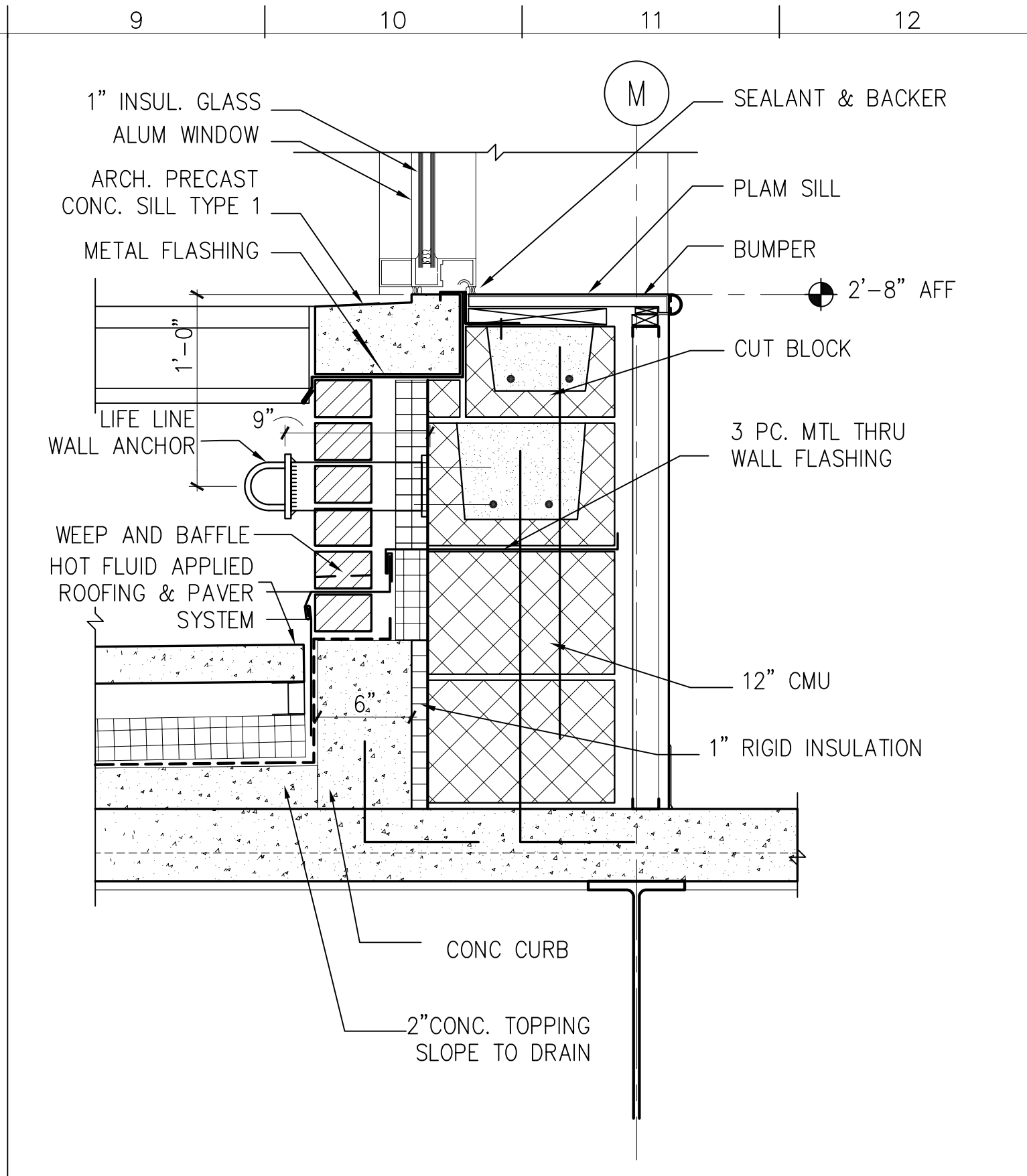
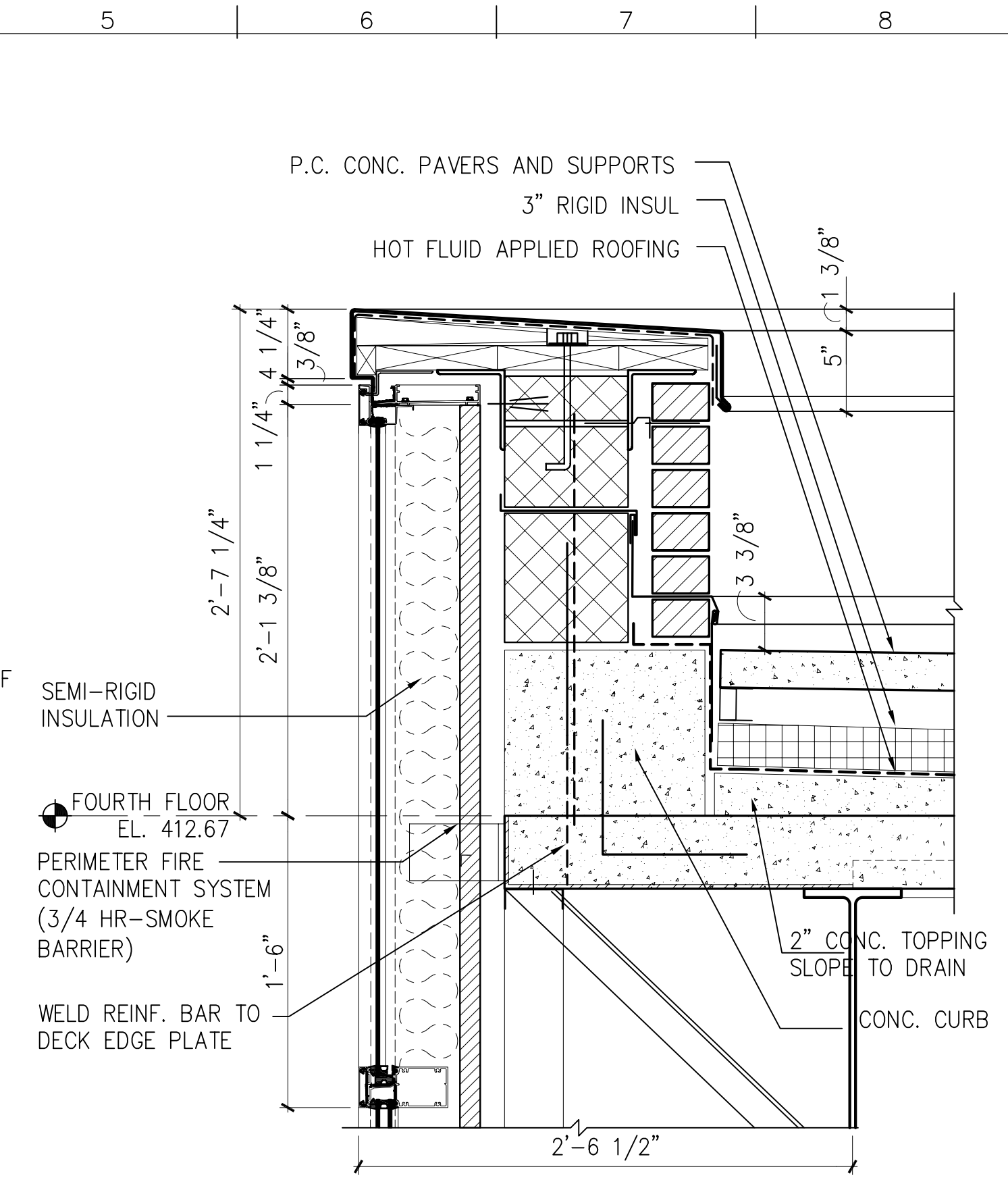
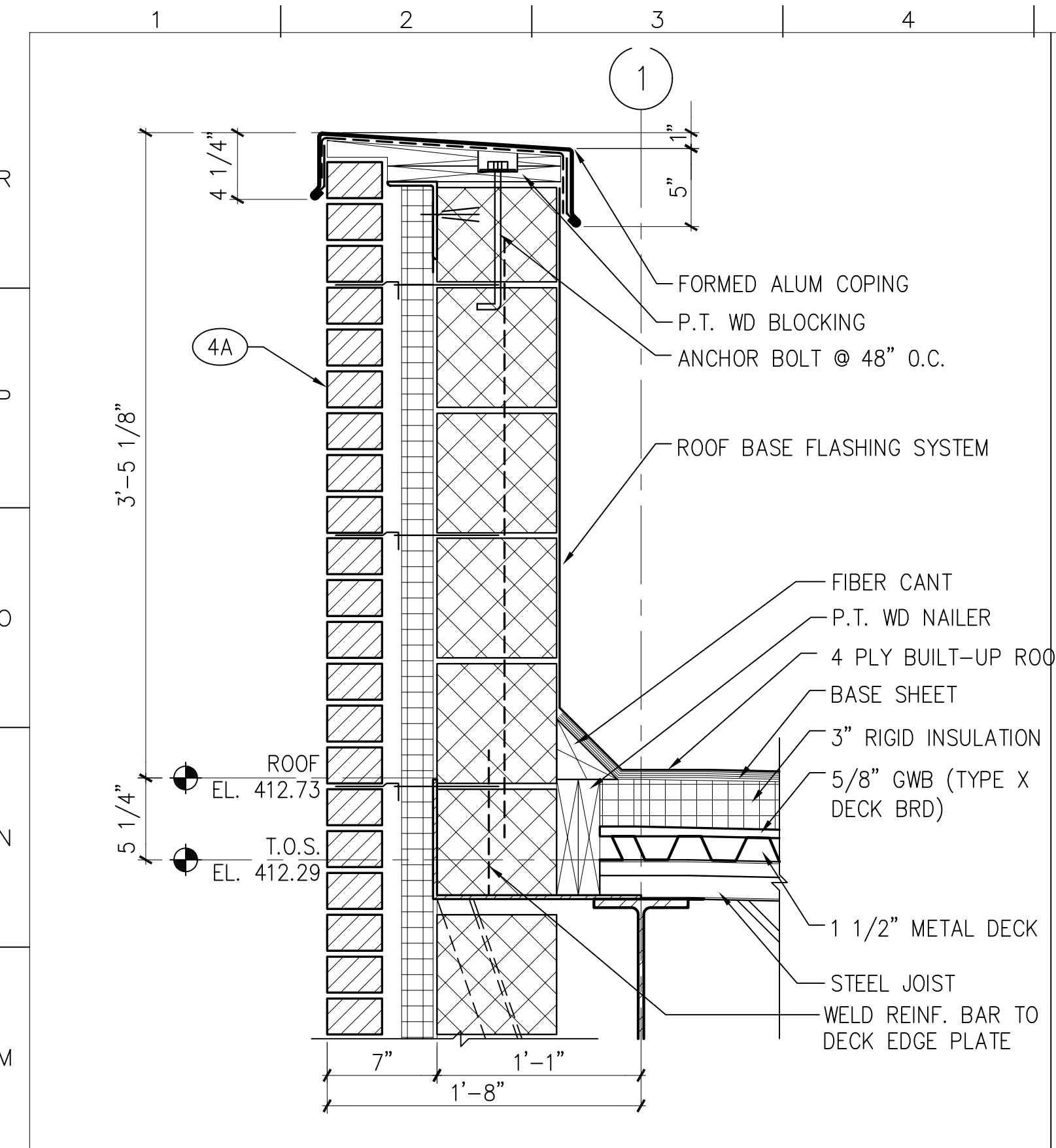
PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A410**  
 SHEET X OF XX

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

Vertical Details  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE  
 DATE

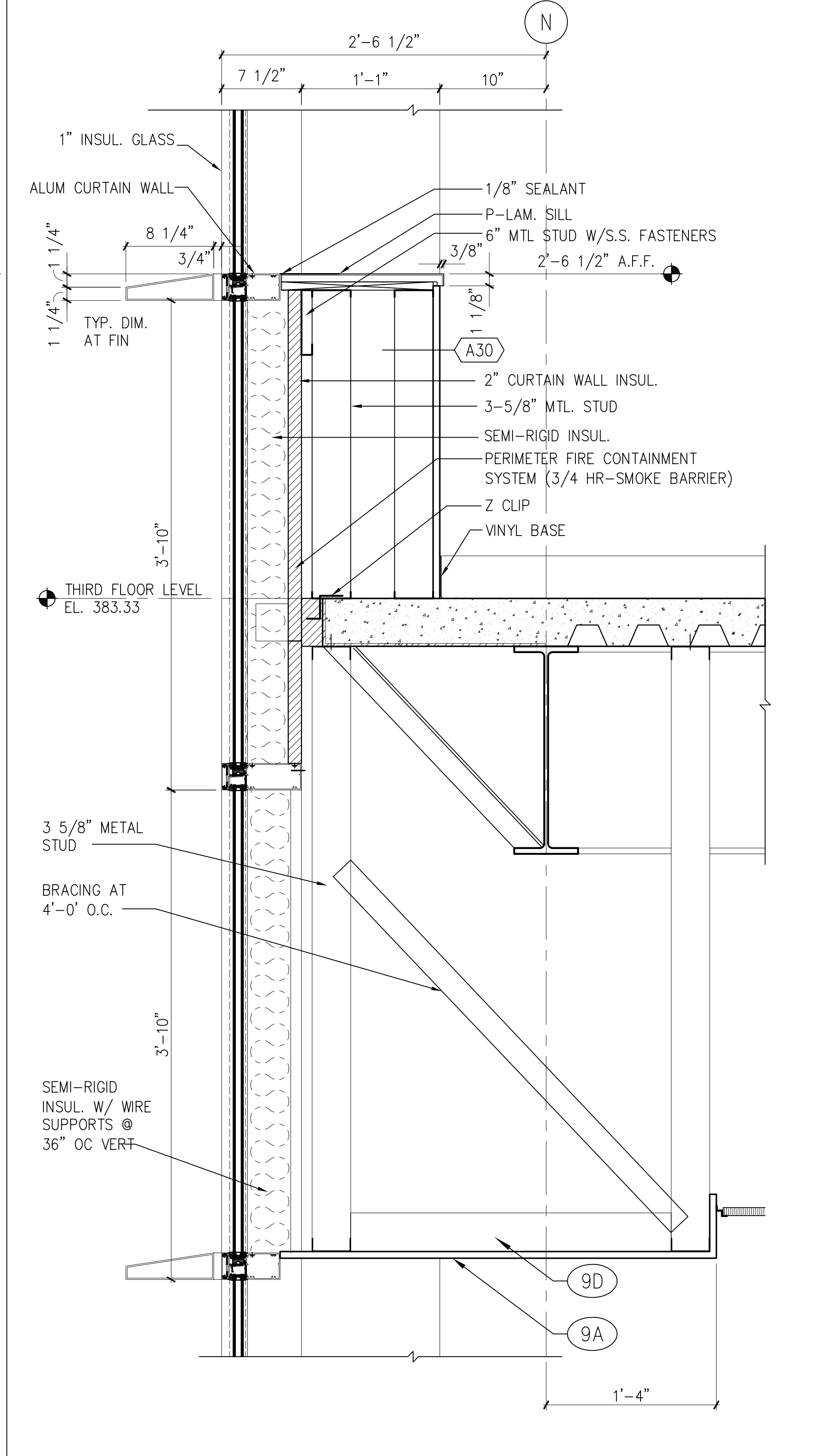
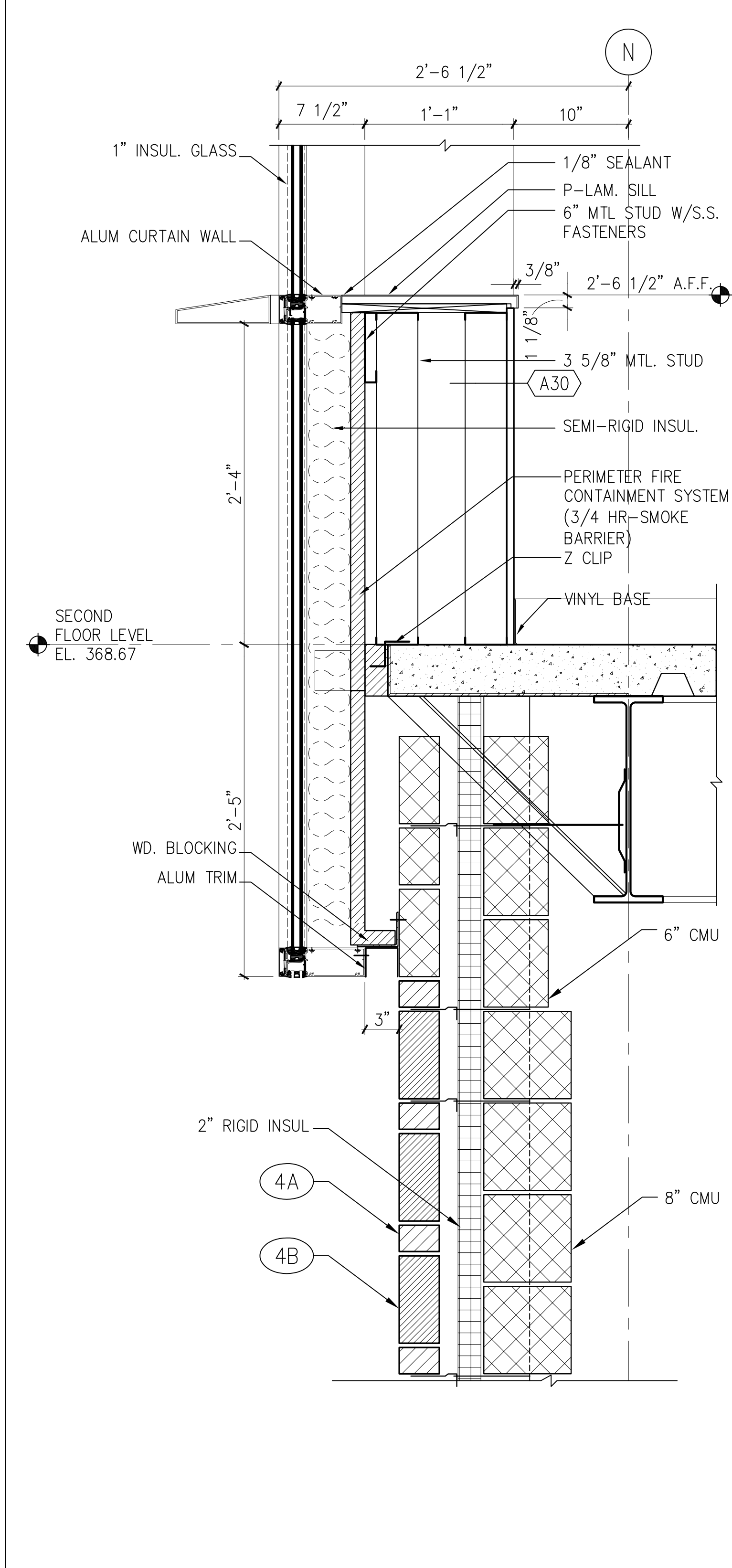
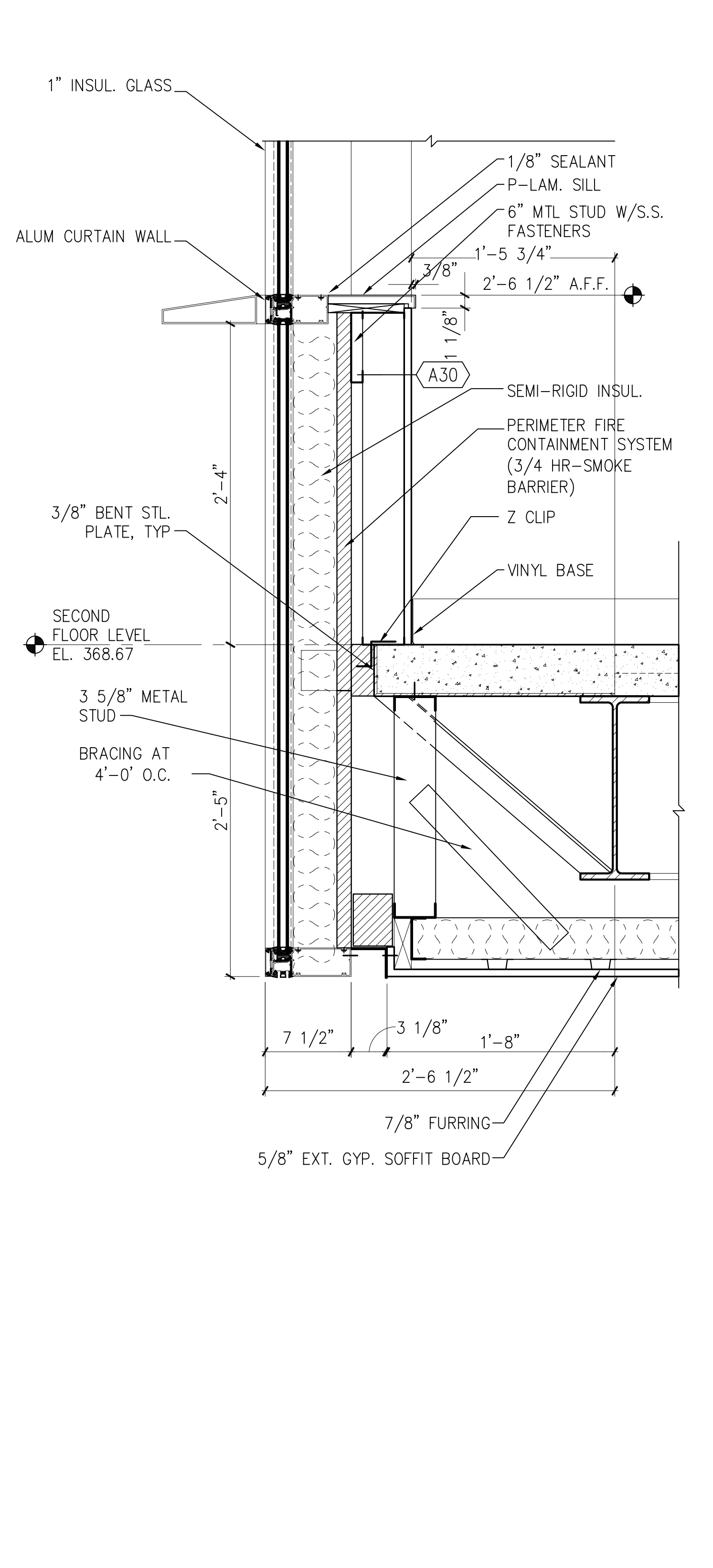
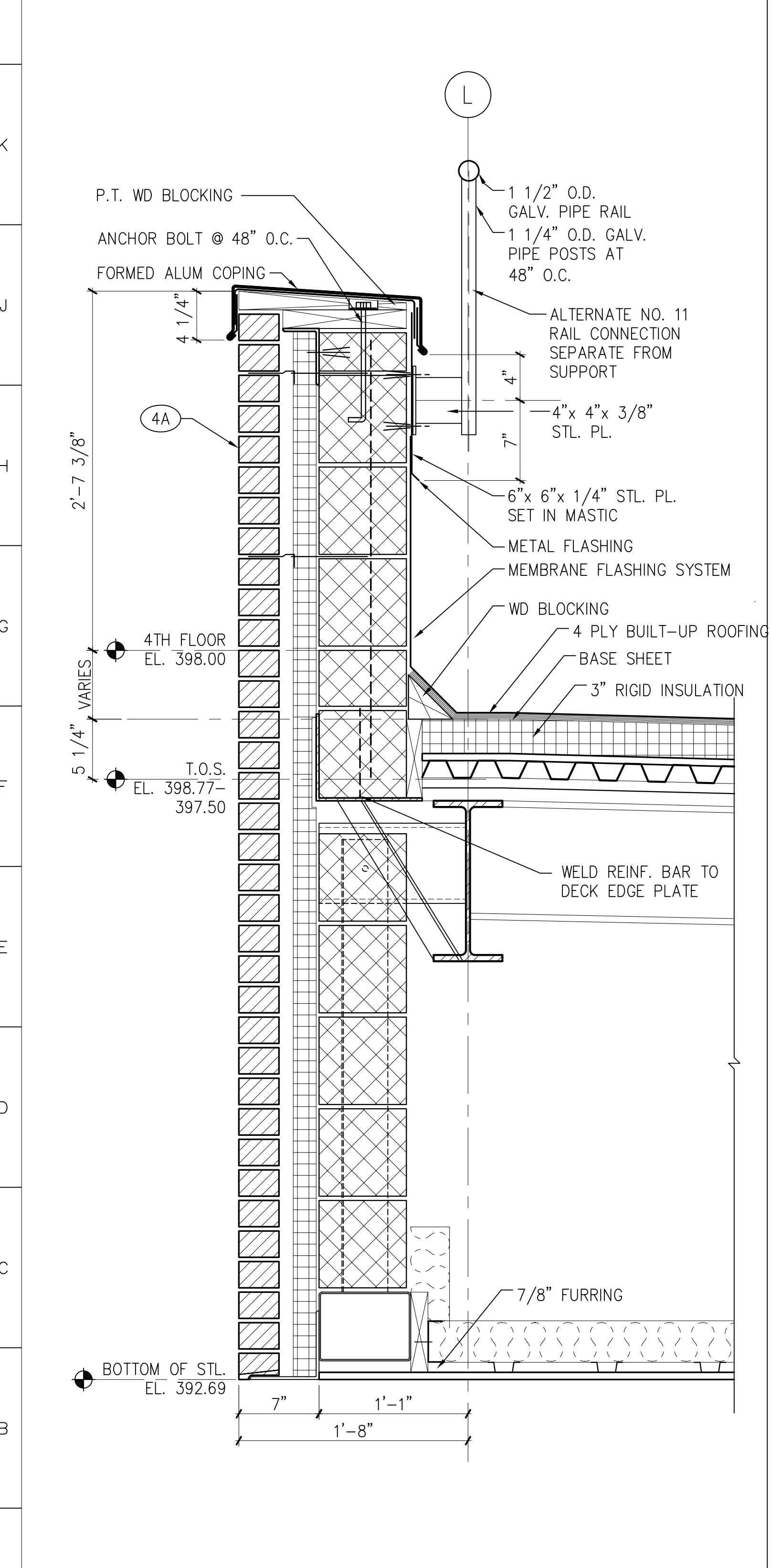


L1 PARAPET DETAIL  
1 1/2" = 1'-0" A14/A304

L5 CURTAIN WALL AT PARAPET  
1 1/2" = 1'-0" A4/A303

L9 SILL DETAIL AT FOURTH FLOOR  
1 1/2" = 1'-0" A4/A303

L13 CURTAIN WALL AT PARAPET  
1 1/2" = 1'-0" A9/A303



A1 PARAPET DETAIL AT ROOF LEVEL  
1 1/2" = 1'-0" G1/A305

A5 CURTAIN WALL AT BASE  
1 1/2" = 1'-0" A4/A303

A9 CURTAIN WALL AT BASE  
1 1/2" = 1'-0" A9/A303

A13 TYP CURTAIN WALL AT INTERMEDIATE FLR  
1 1/2" = 1'-0" A9/A303

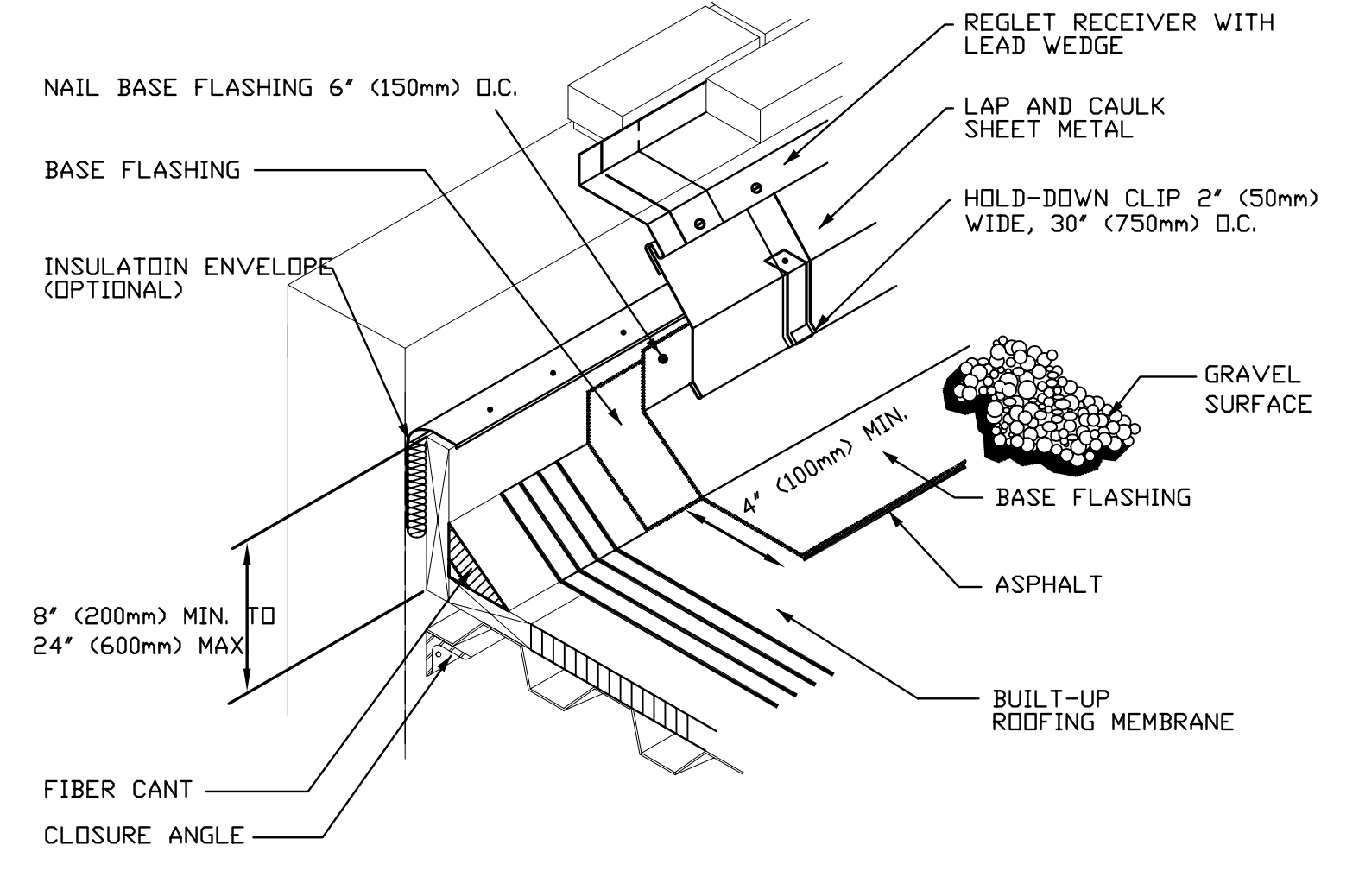
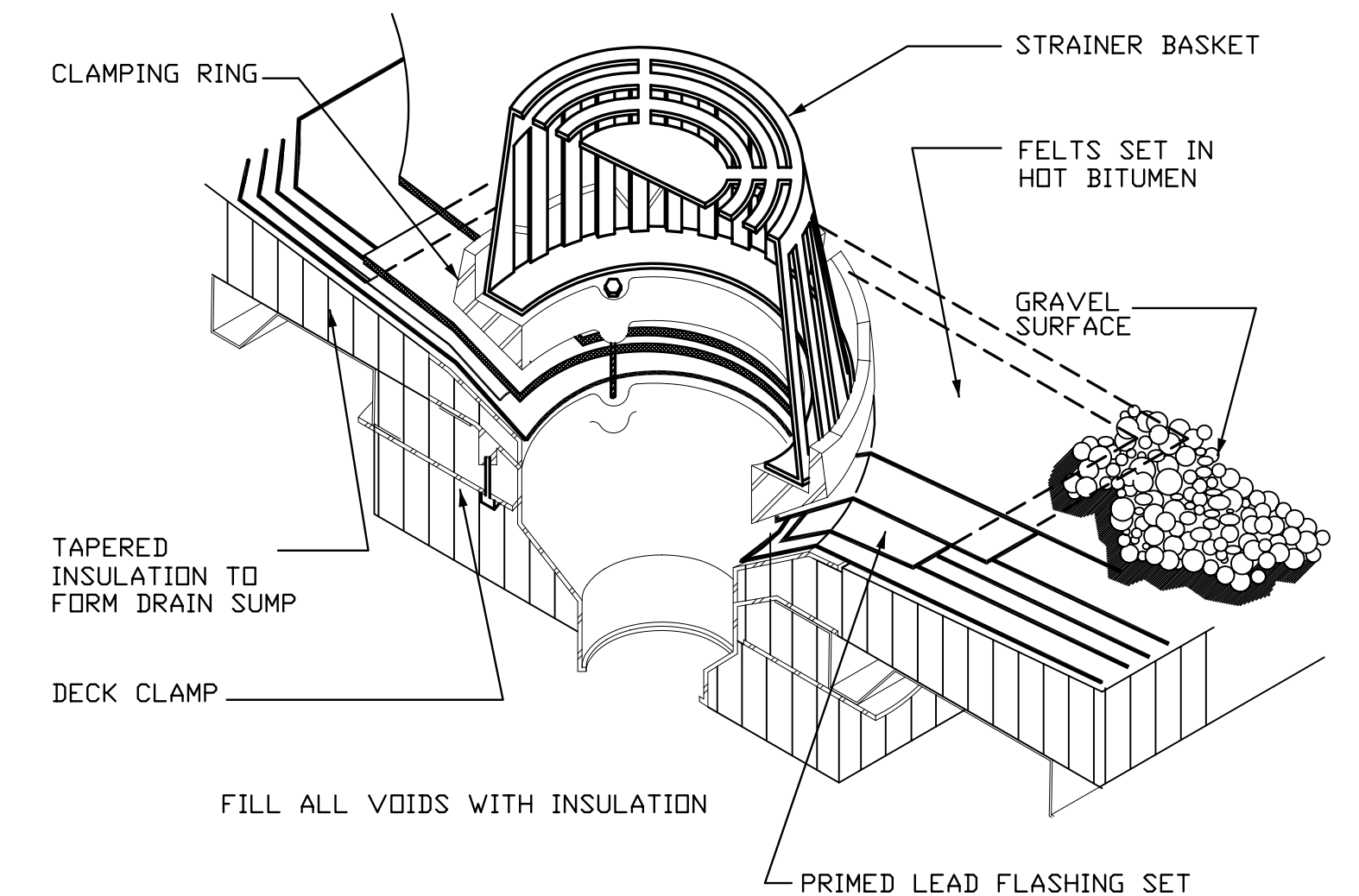
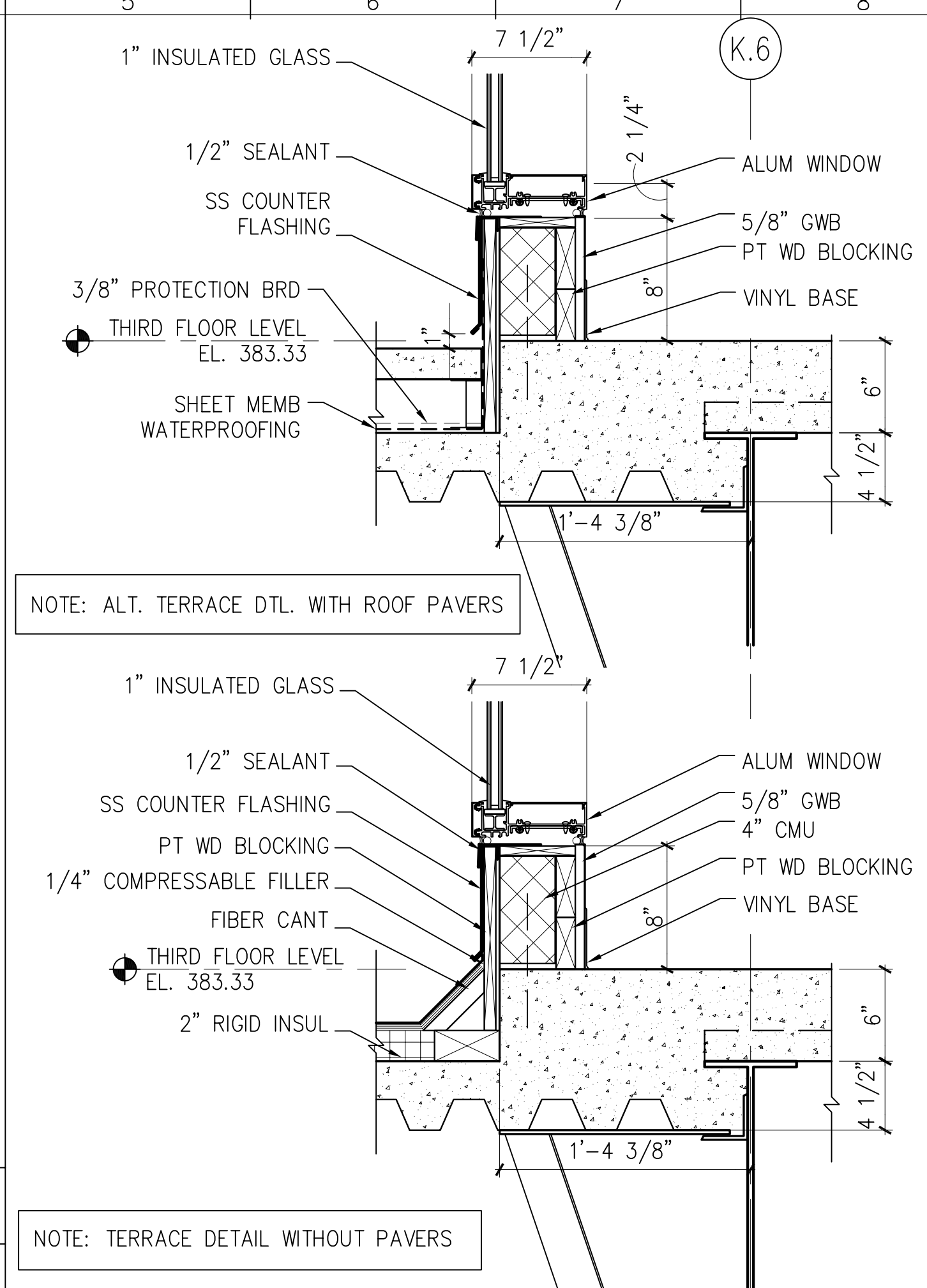
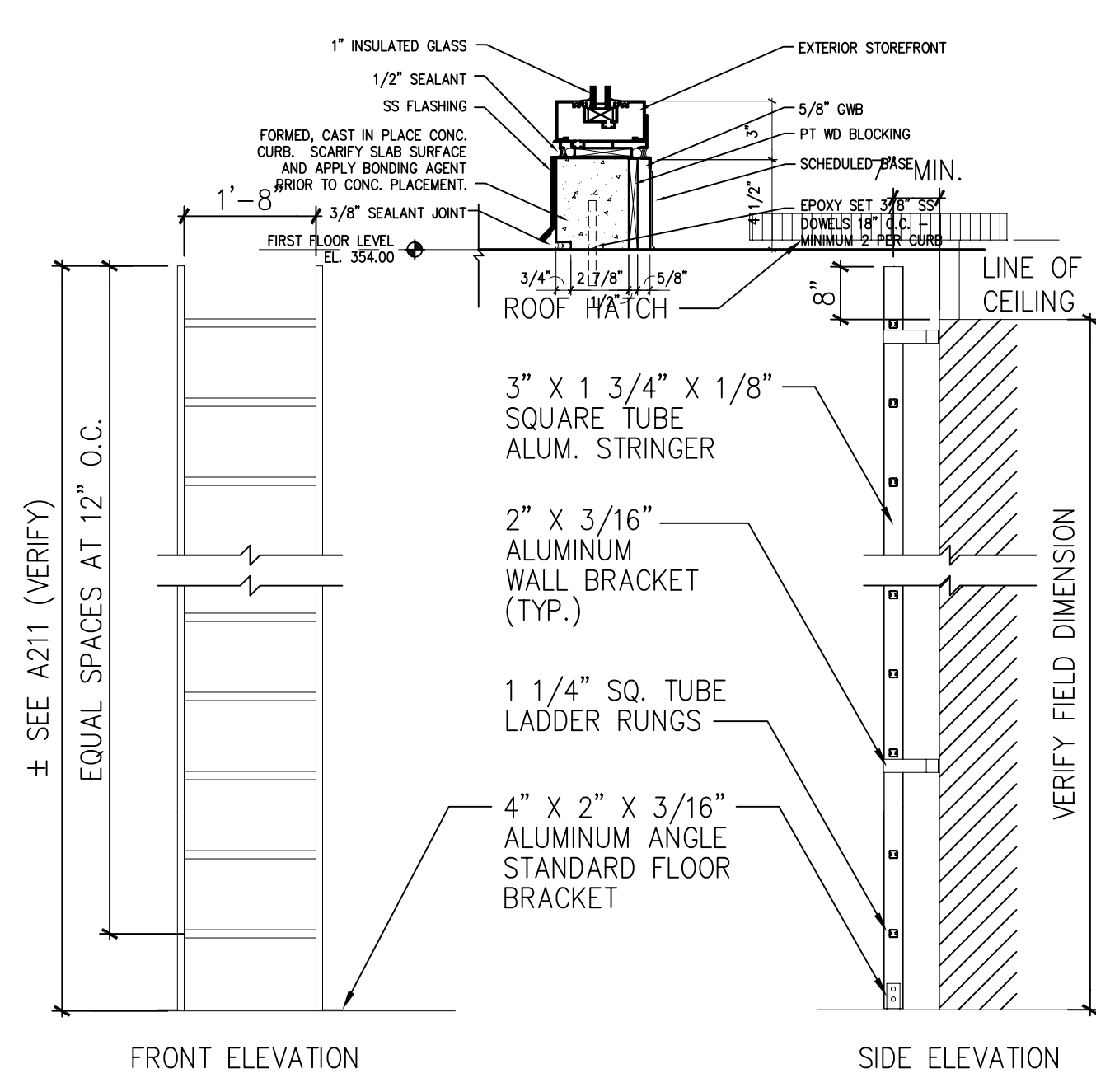
no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A411**  
 SHEET X OF XX

**Vertical Details**  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE

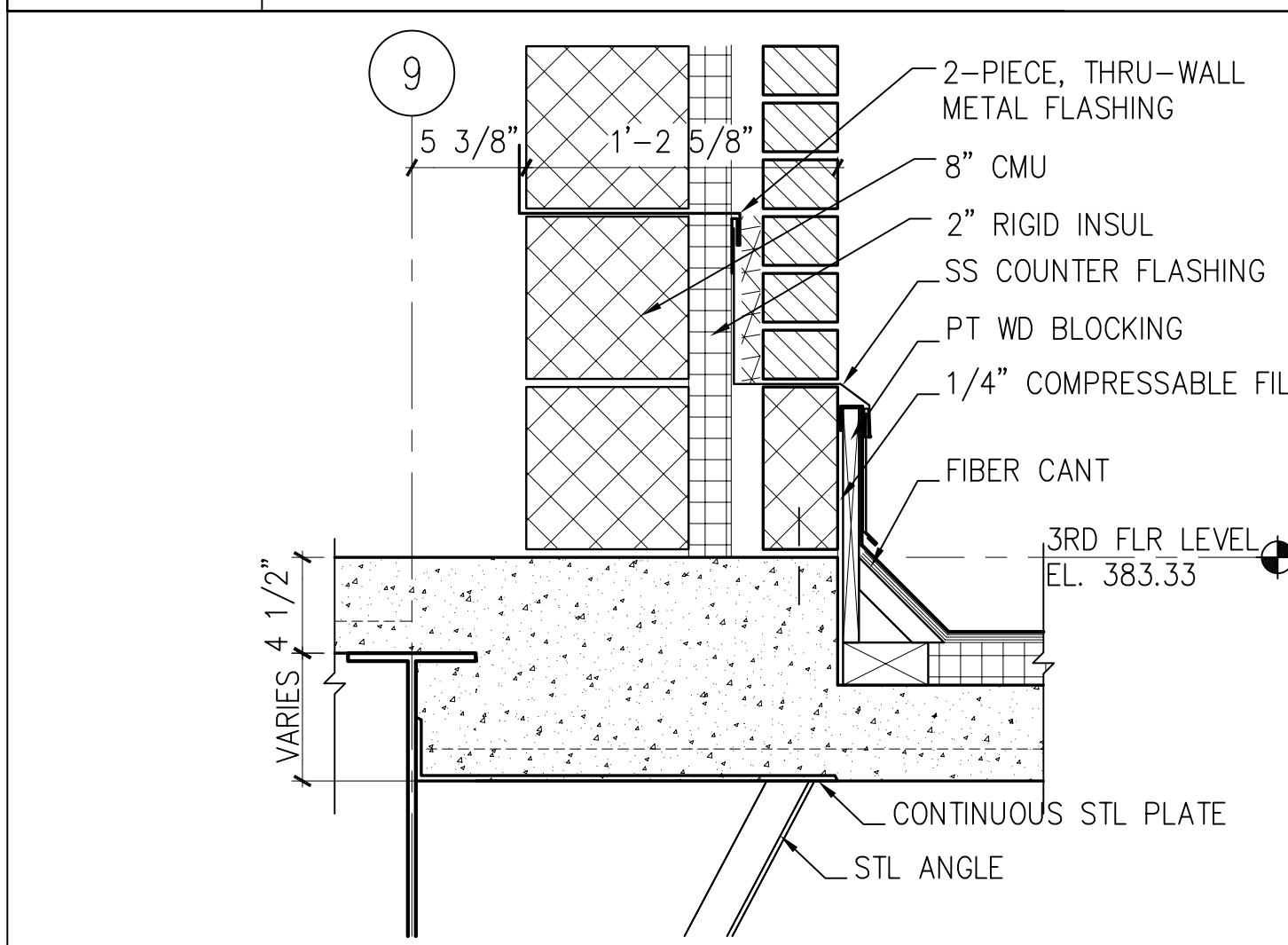
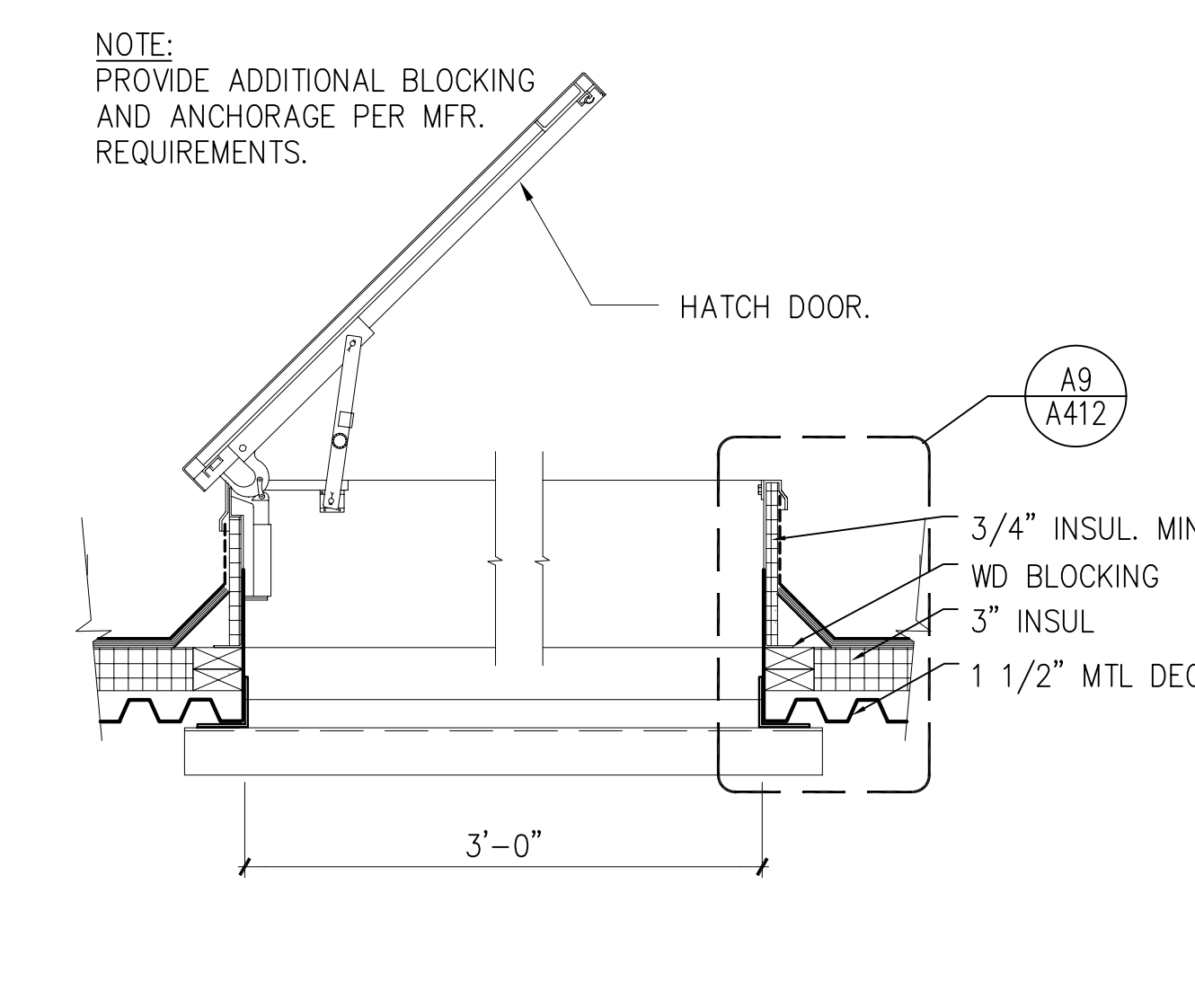


L1 LADDER DETAIL  
3/4" = 1'-0" A100, A105

K5 DTL AT THIRD FLOOR TERRACE  
3" = 1'-0" A8/302

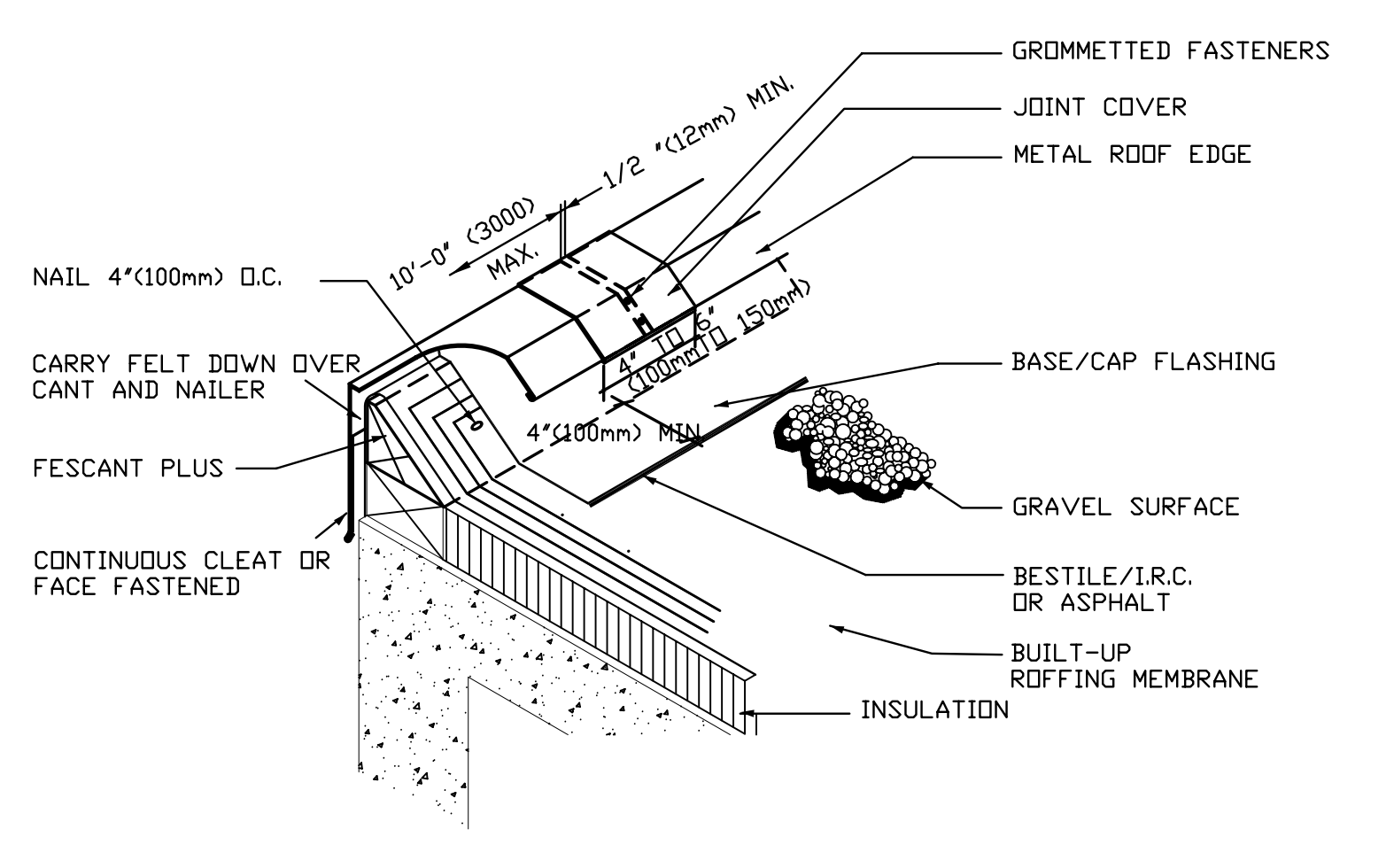
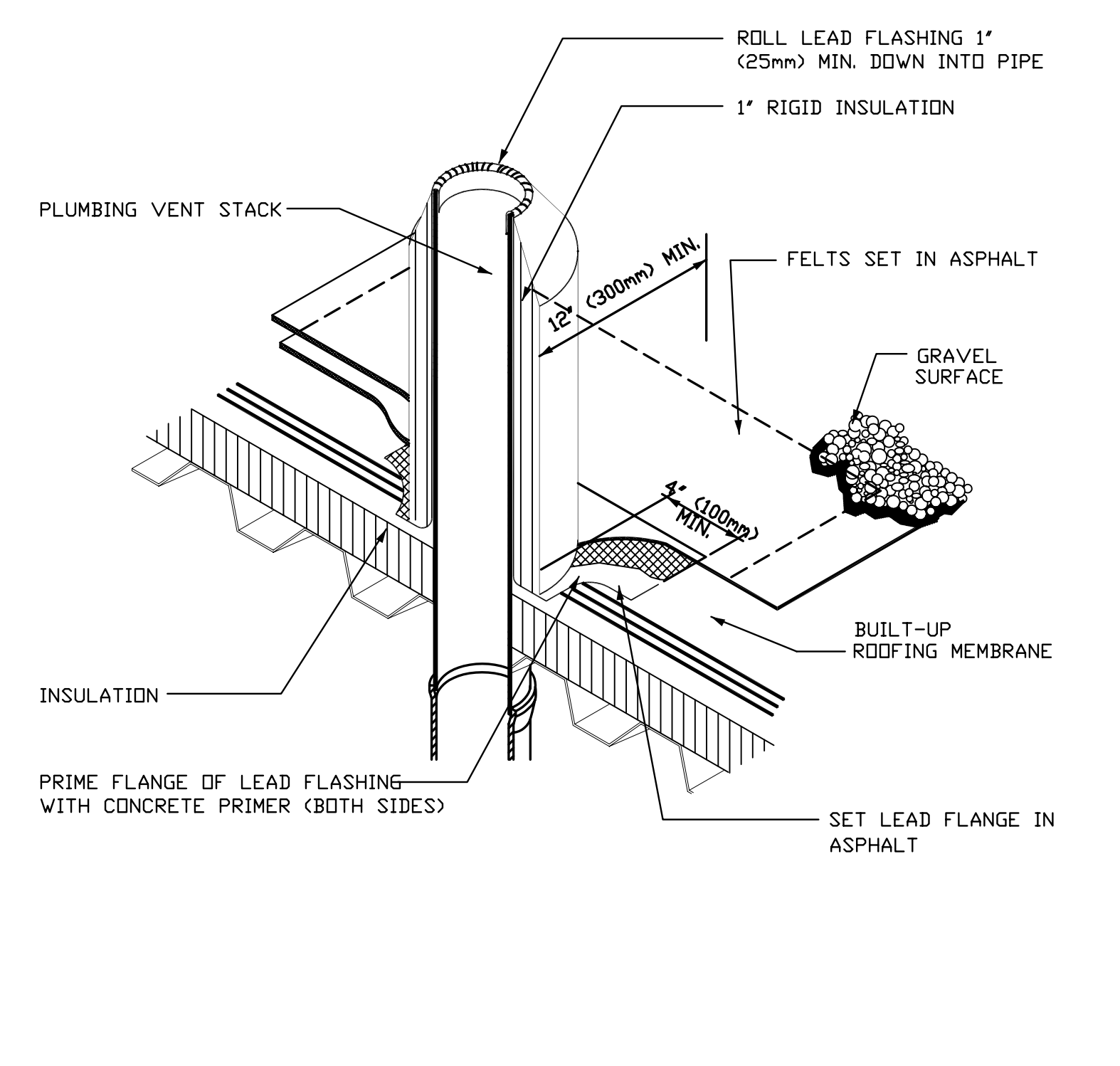
L9 FLASHING TO METAL DRAIN  
NTS

L13 BASE FLASHING AT ROOF  
NTS



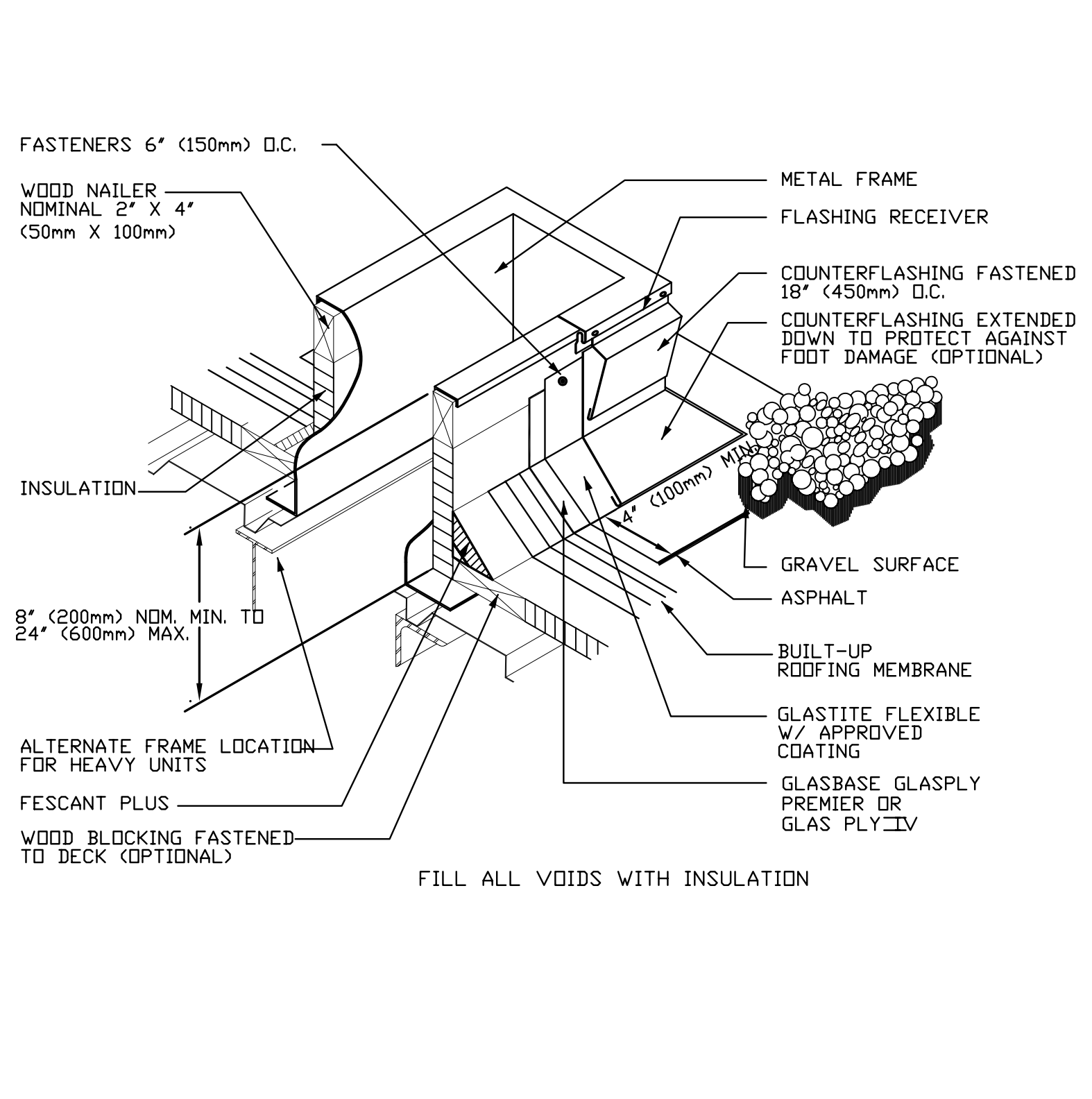
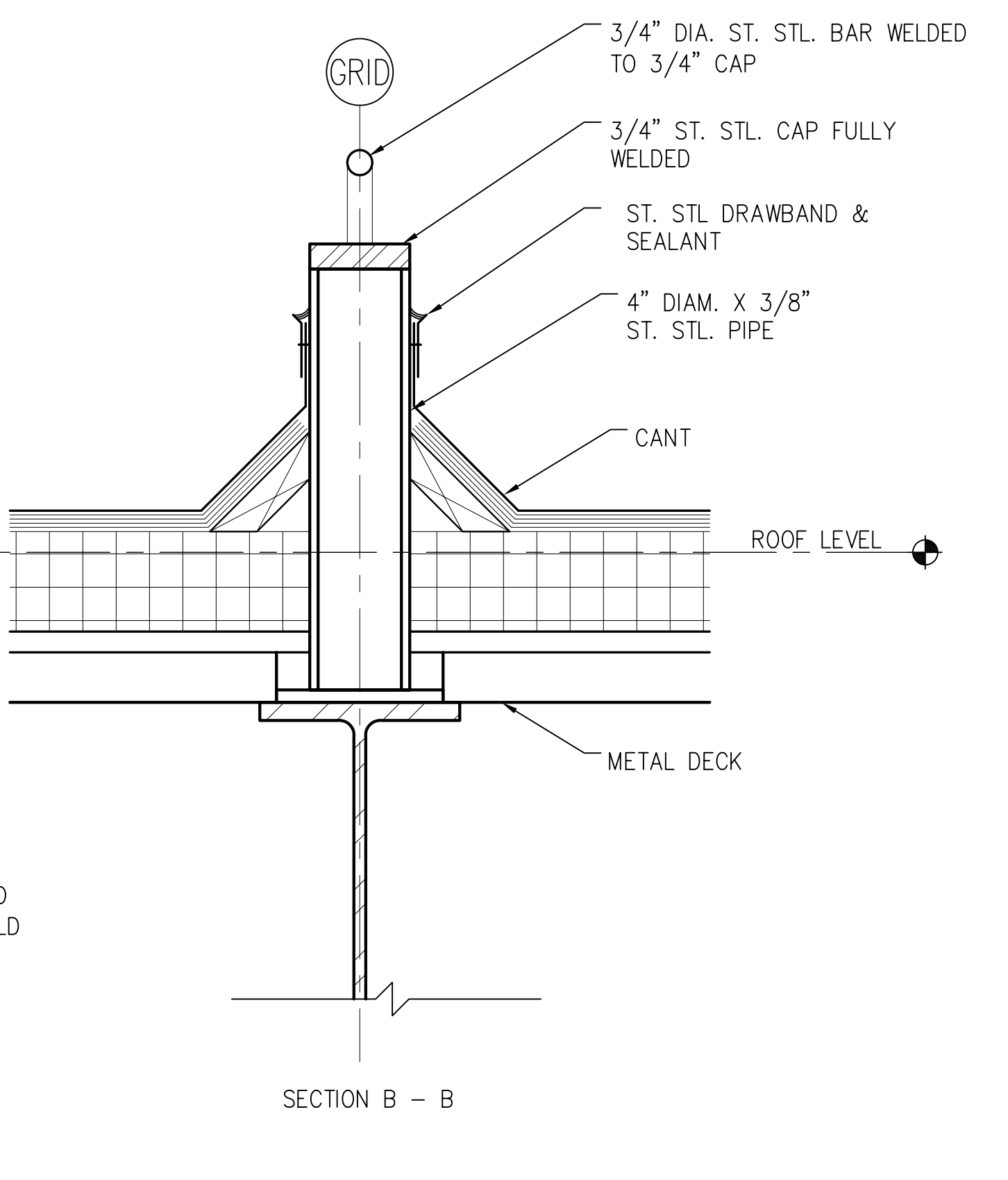
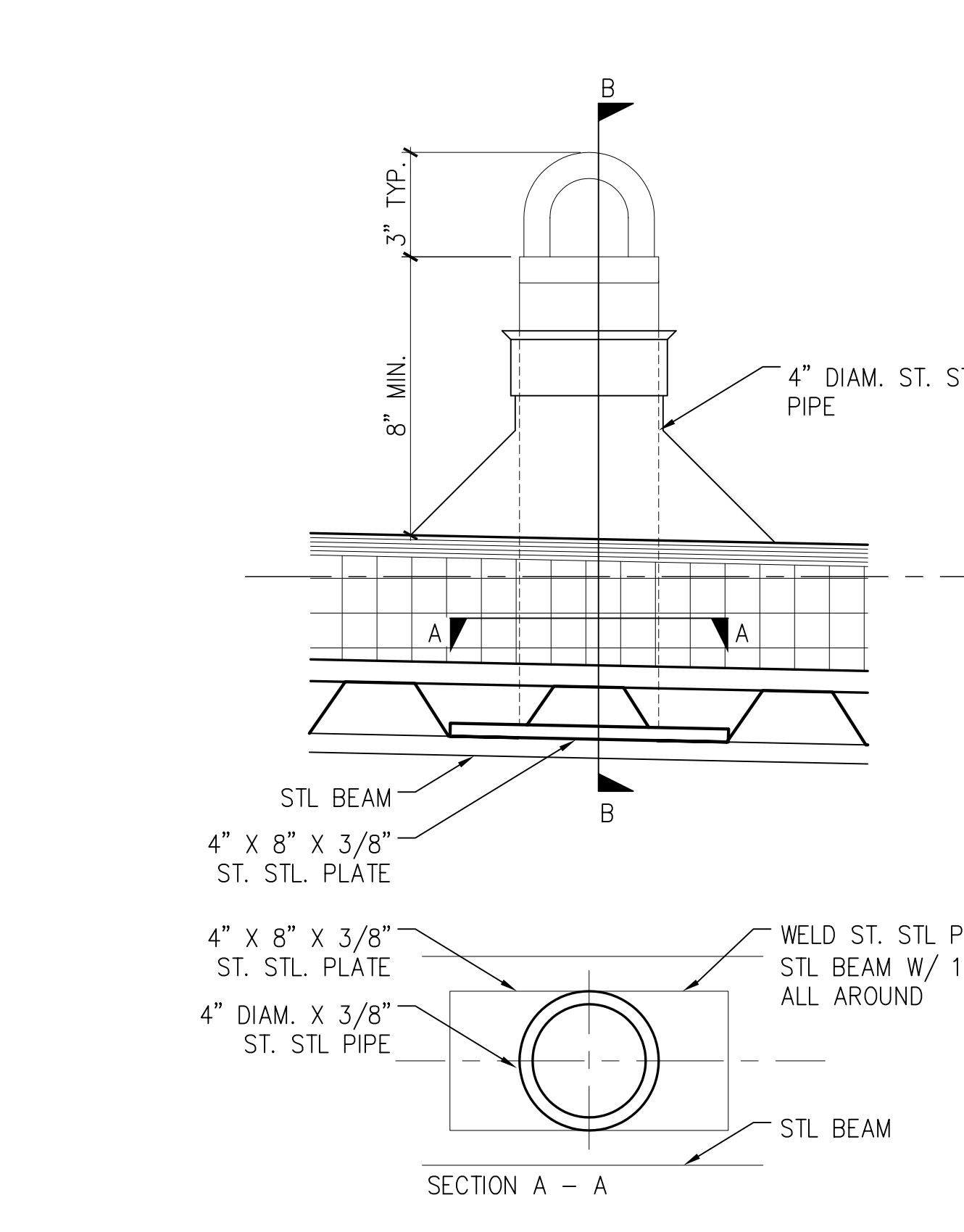
G1 ROOF HATCH DETAIL  
1" = 1'-0"

G5 DTL AT THIRD FLOOR TERRACE  
3" = 1'-0" A103



F9 FLASHING TO PLUMBING VENT  
NTS

F13 ROOF EDGE DETAIL  
NTS



A1 WINDOW WASHING TIE-BACK  
3" = 1'-0"

A9 FLASHING TO PREFAB. CURB  
NTS

A9 FLASHING TO PREFAB. CURB  
NTS

A13 BASE FLASHING AT ROOF  
NTS

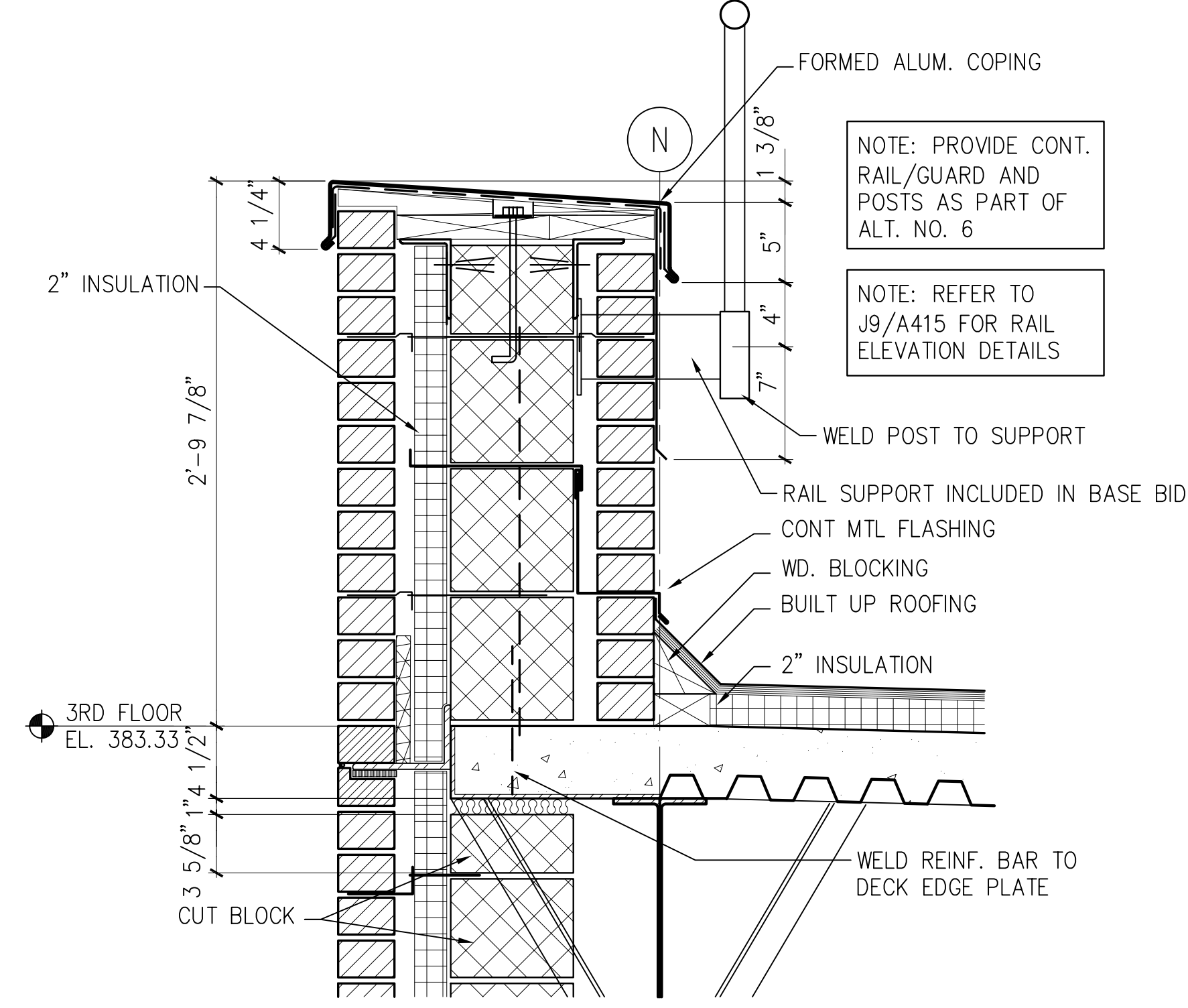
no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A412**  
 SHEET 1 OF 22

**Roof Details**  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

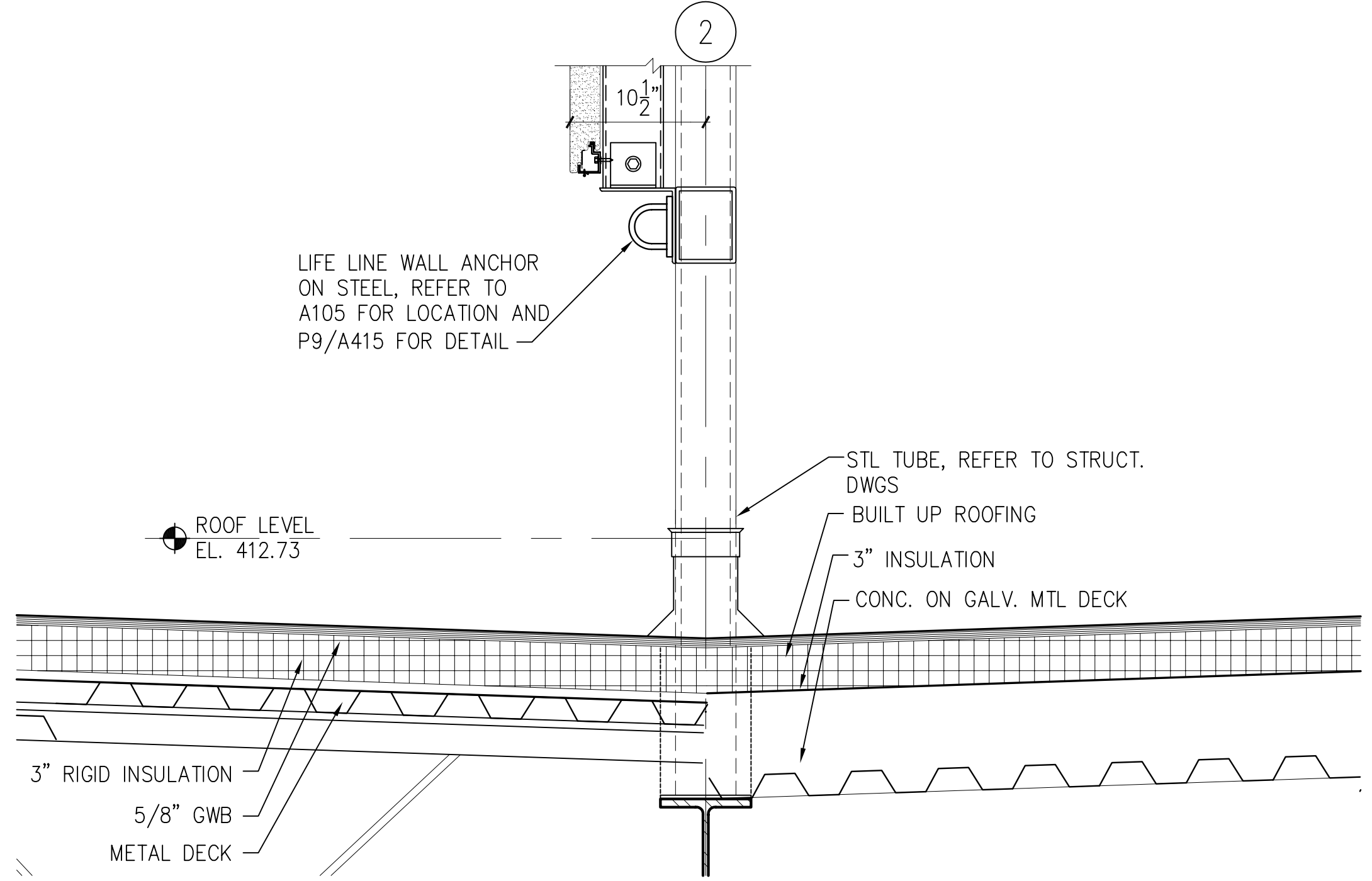
MONTGOMERY COLLEGE APPROVAL  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

P:\099\34495.01\Arch\Plot\HSH-4412.DWG  
 PLOTTED BY: EASE  
 DATE: 2/20/02



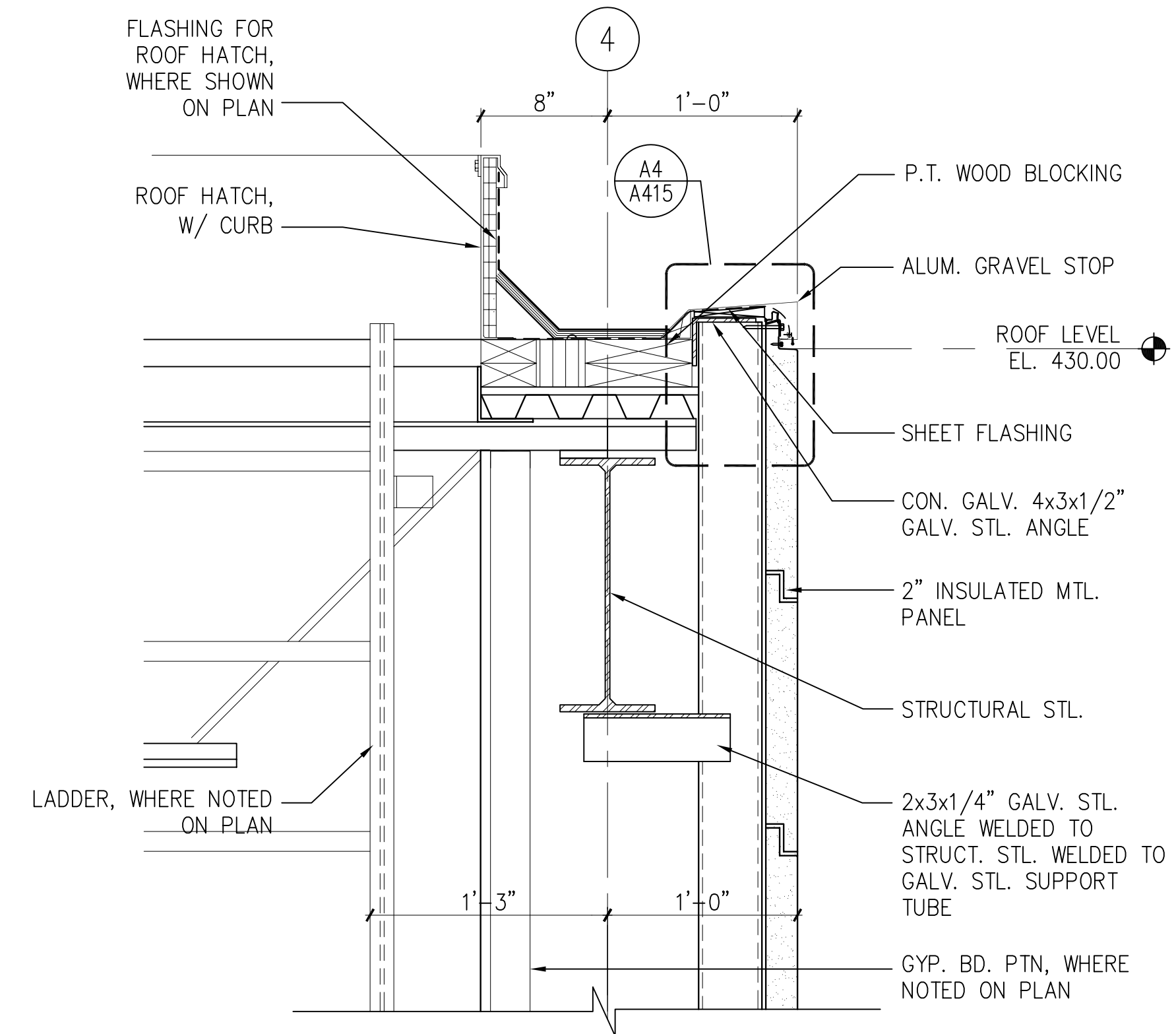
M1 PARAPET AT TERRACE

1 1/2" = 1'-0" A1/A303



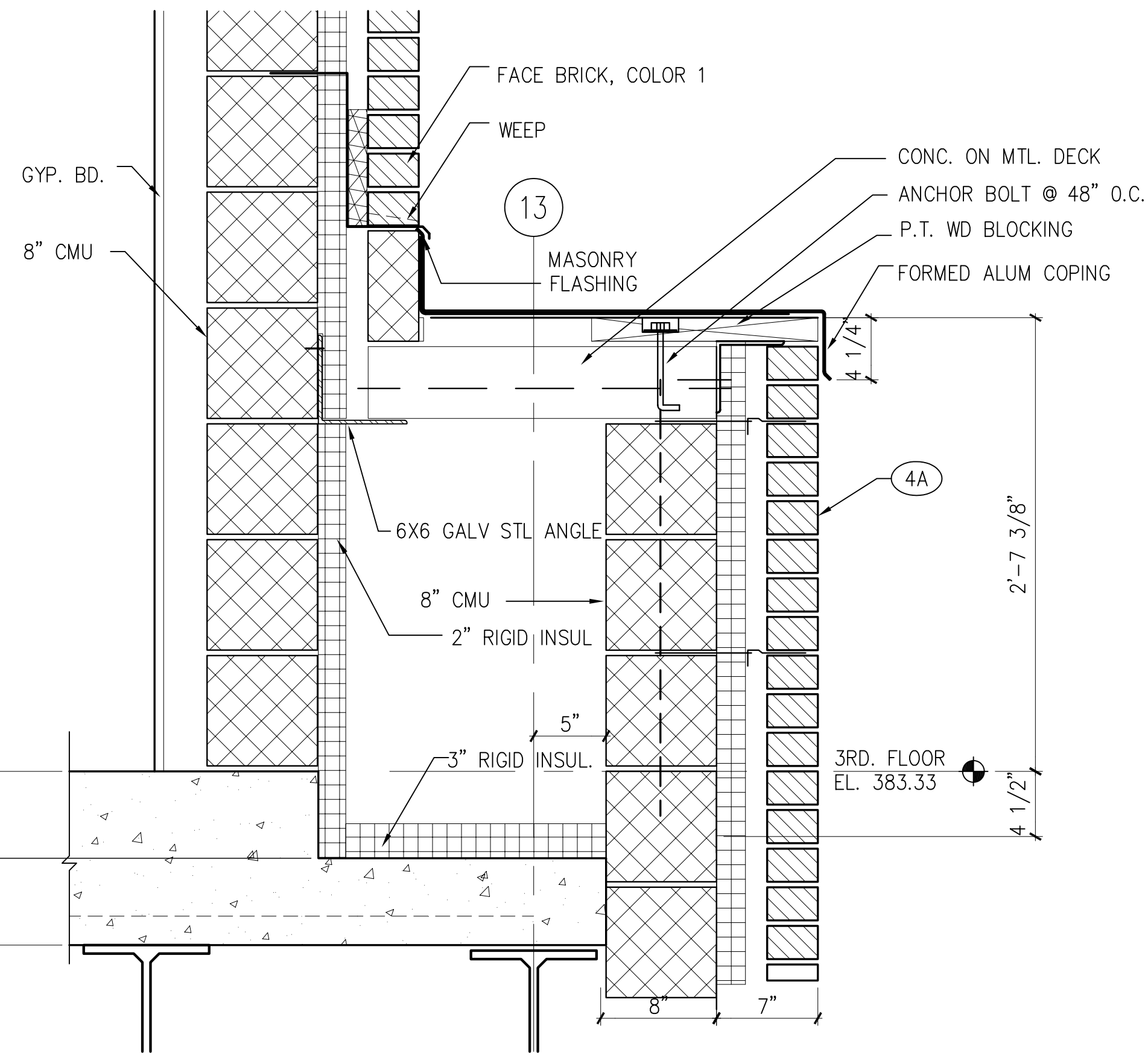
M7 ROOF SCREEN DETAIL

1 1/2" = 1'-0" G11/A305



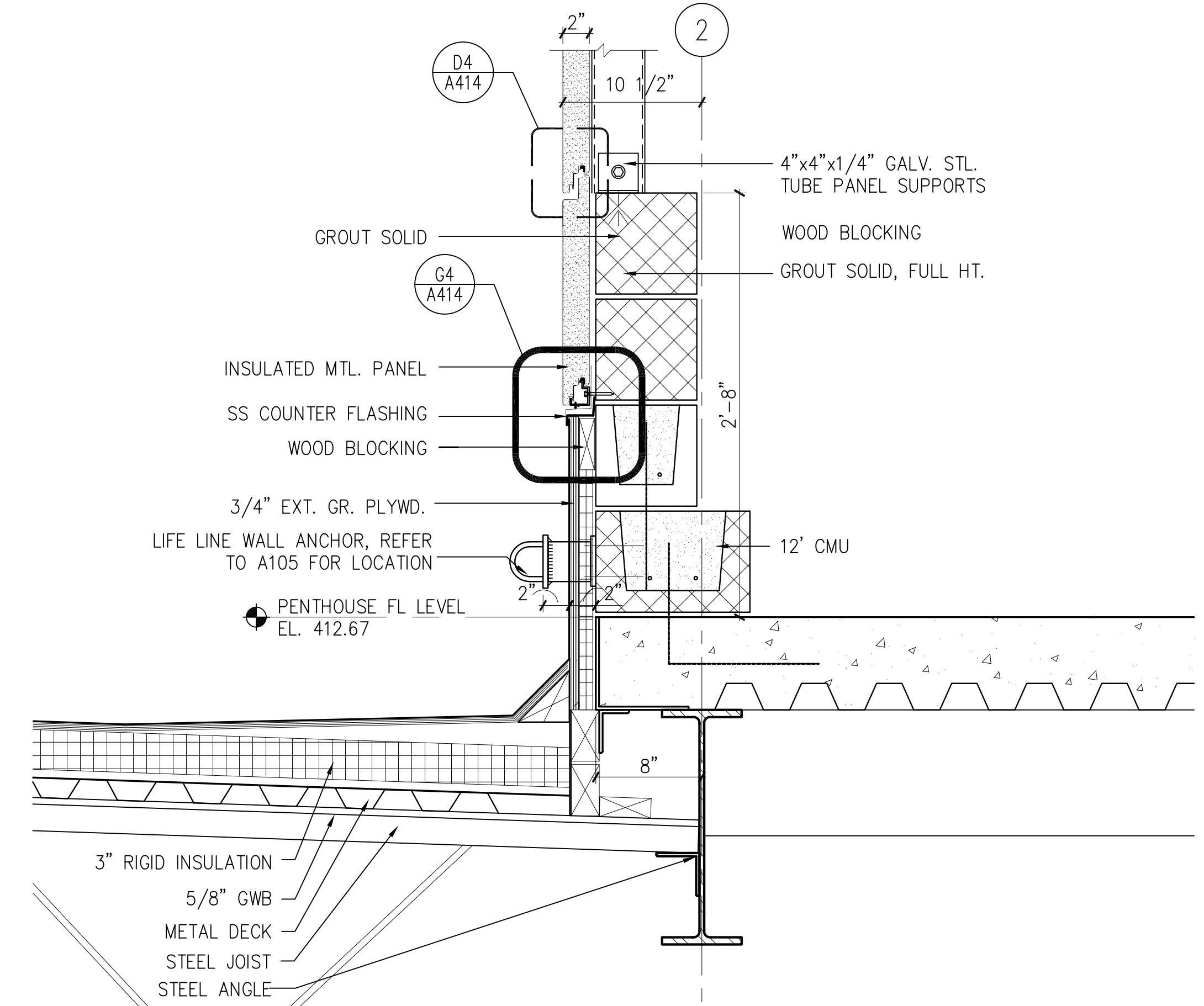
F13 DETAIL AT PENTHOUSE

1 1/2" = 1'-0" A7/A506



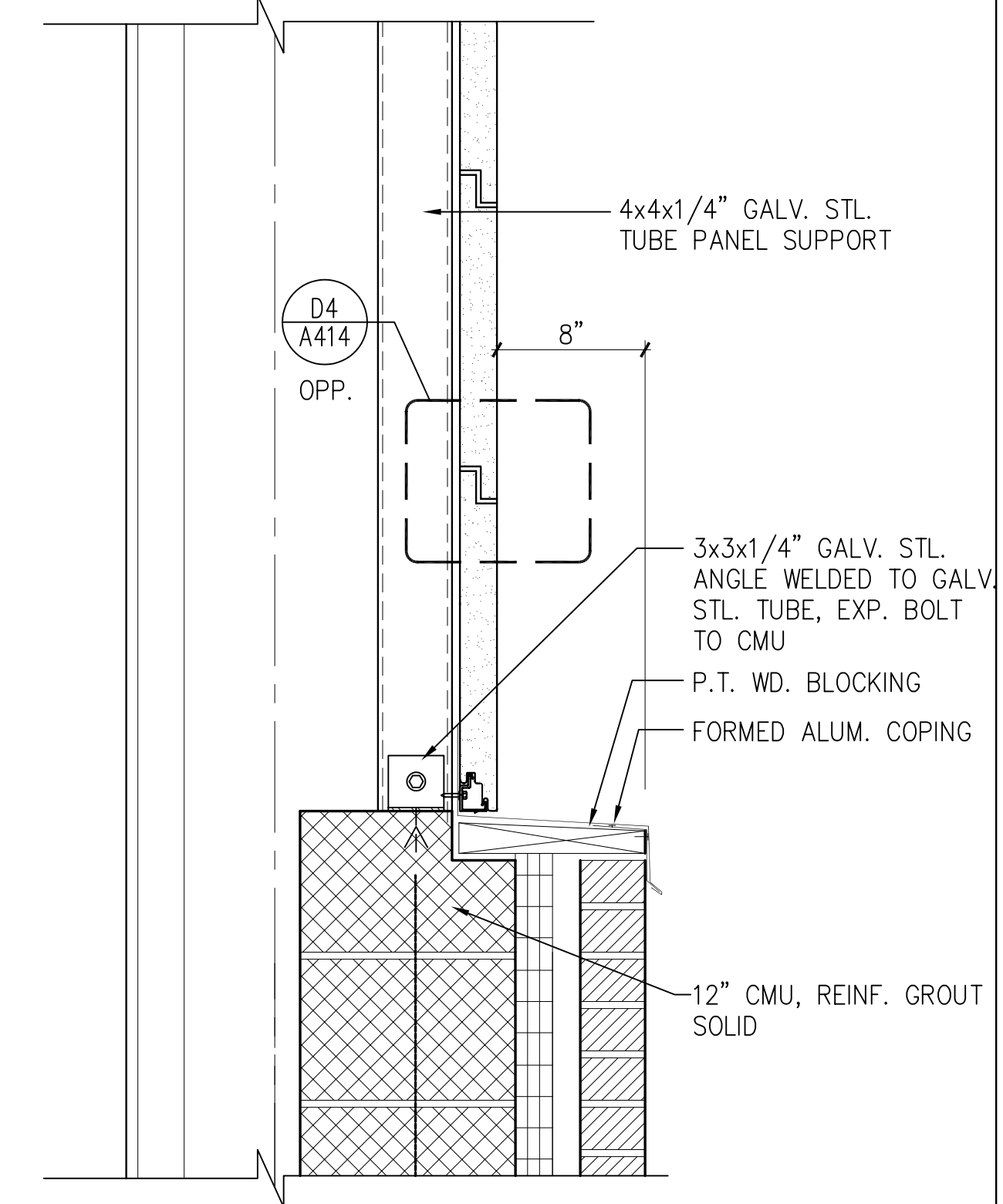
F1 DETAIL AT THIRD FLOOR TERRACE

1 1/2" = 1'-0" A7/A403, H1/A301



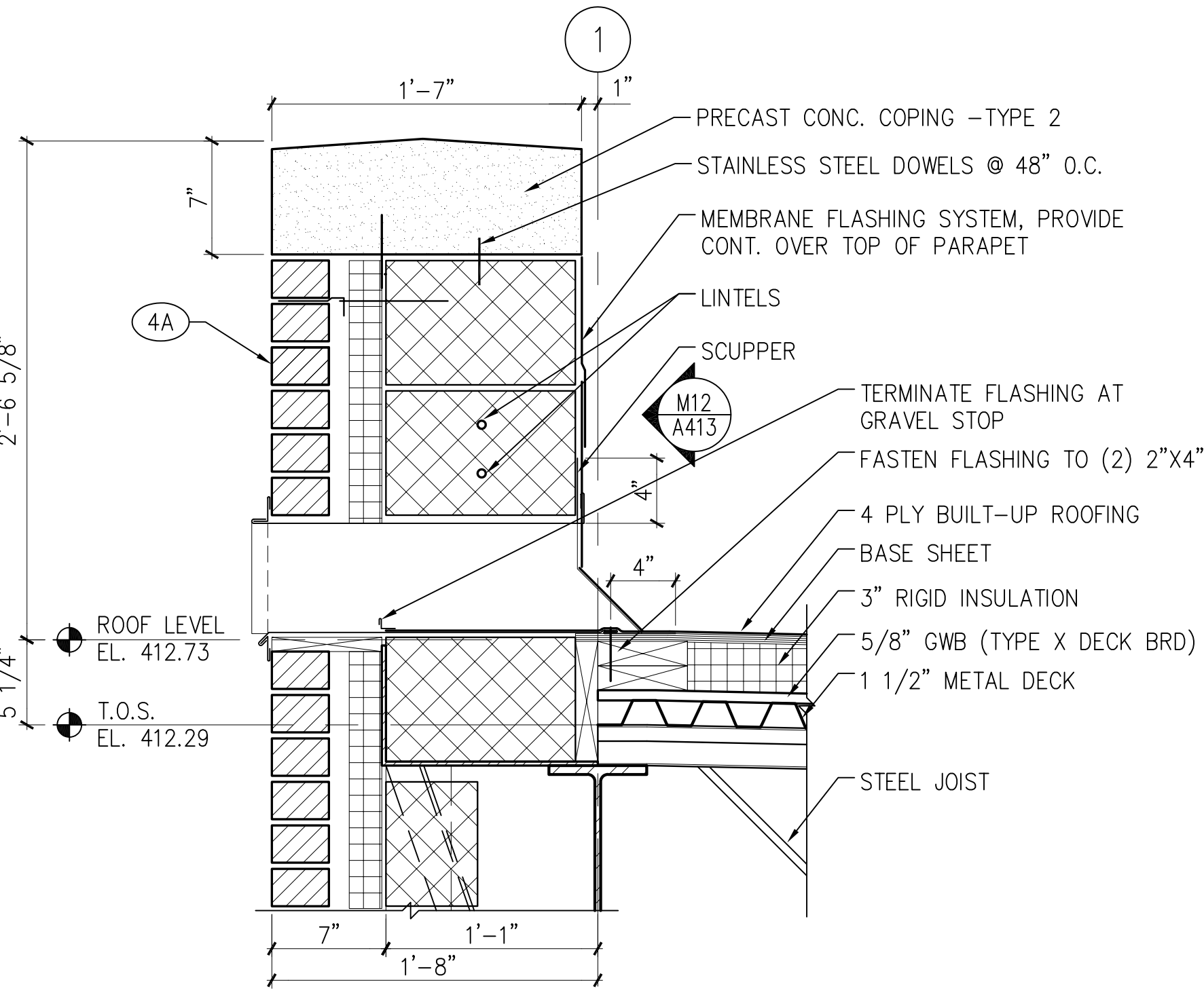
F7 DETAIL AT PENTHOUSE

1 1/2" = 1'-0" G7/A305



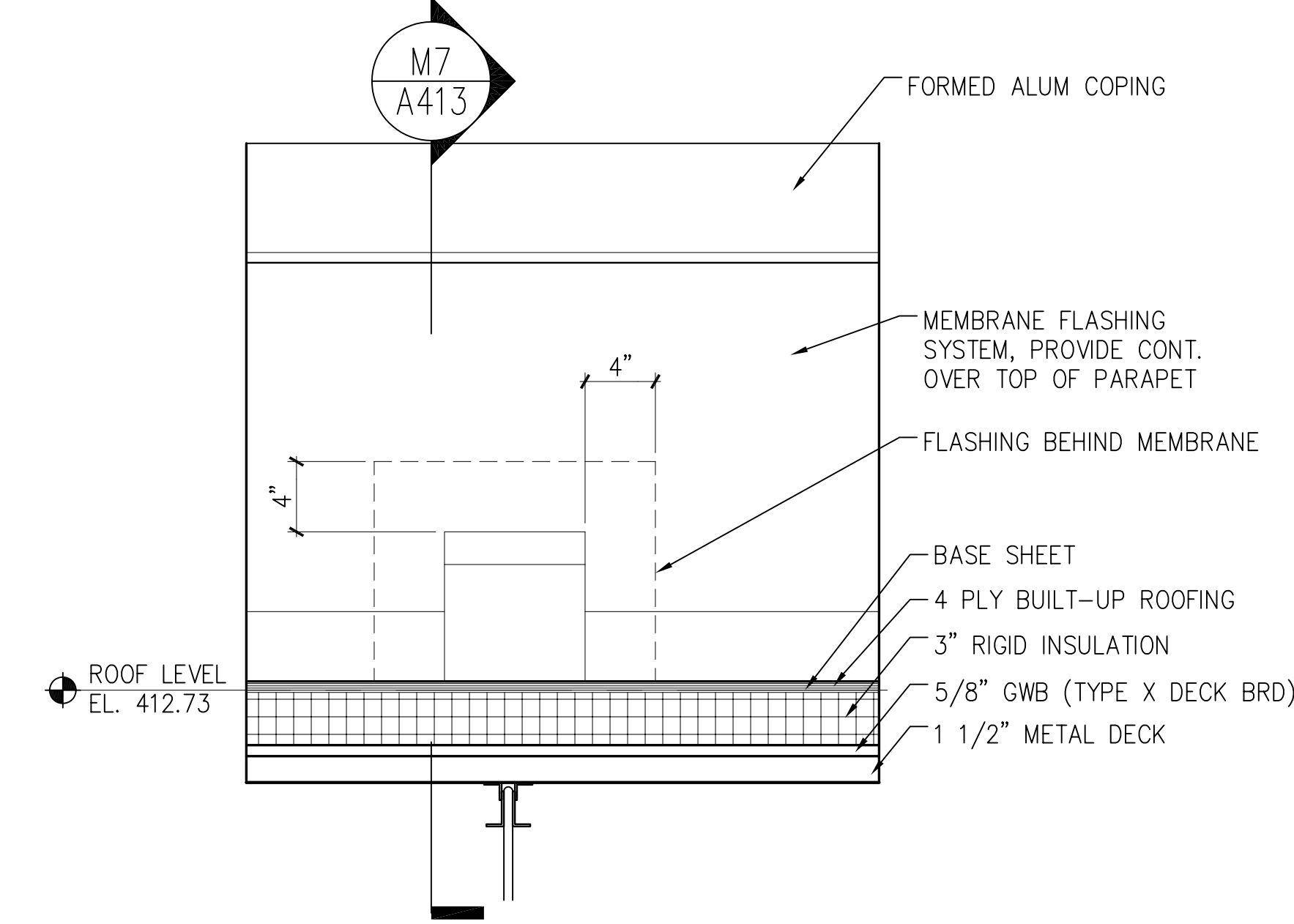
F13 DETAIL AT PENTHOUSE

1 1/2" = 1'-0" A7/A506



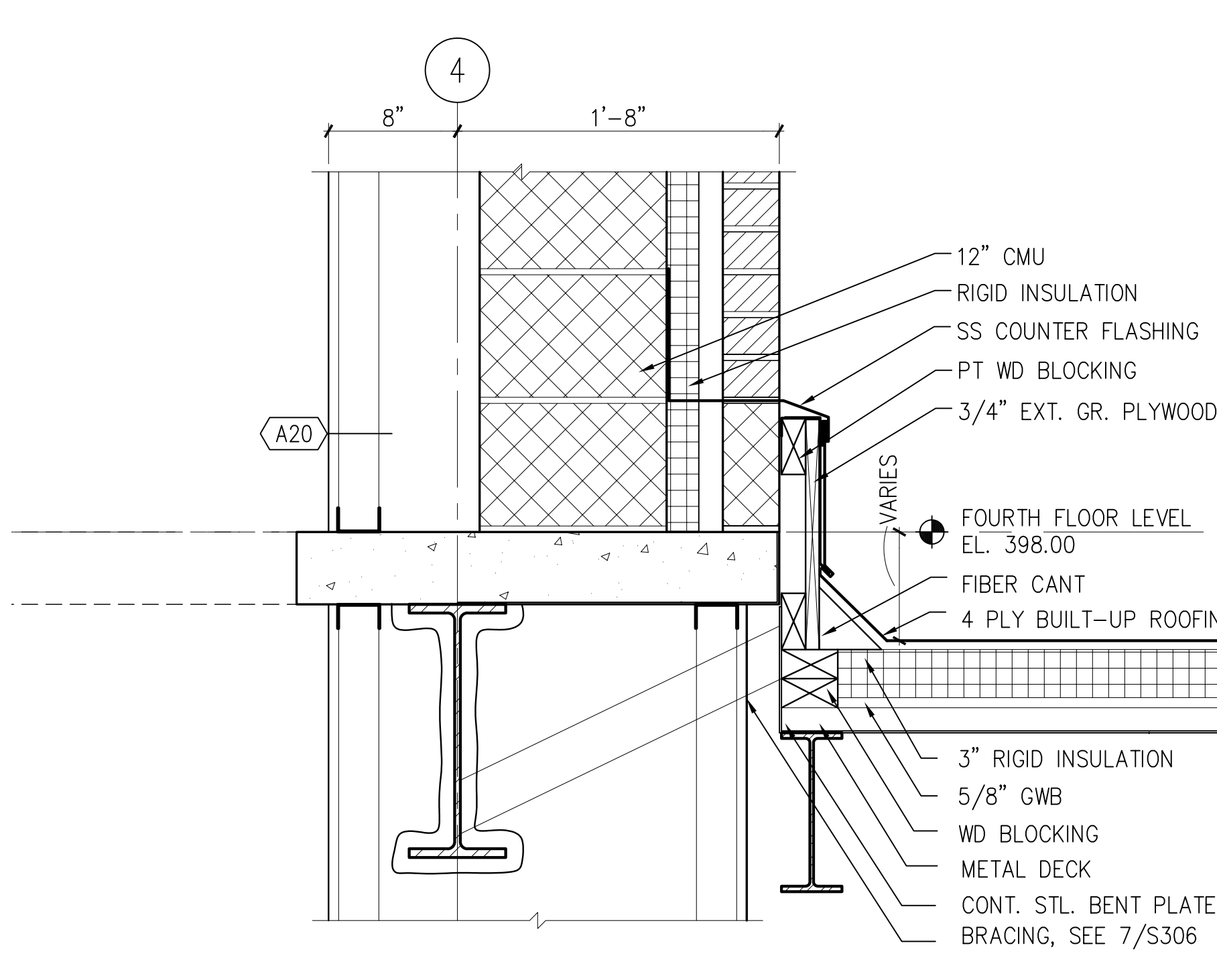
A1 SCUPPER DETAIL AT PARAPET

1 1/2" = 1'-0"



A7 SCUPPER DETAIL AT PARAPET

1 1/2" = 1'-0"



A13 ROOF DETAIL

1 1/2" = 1'-0" A7/A506

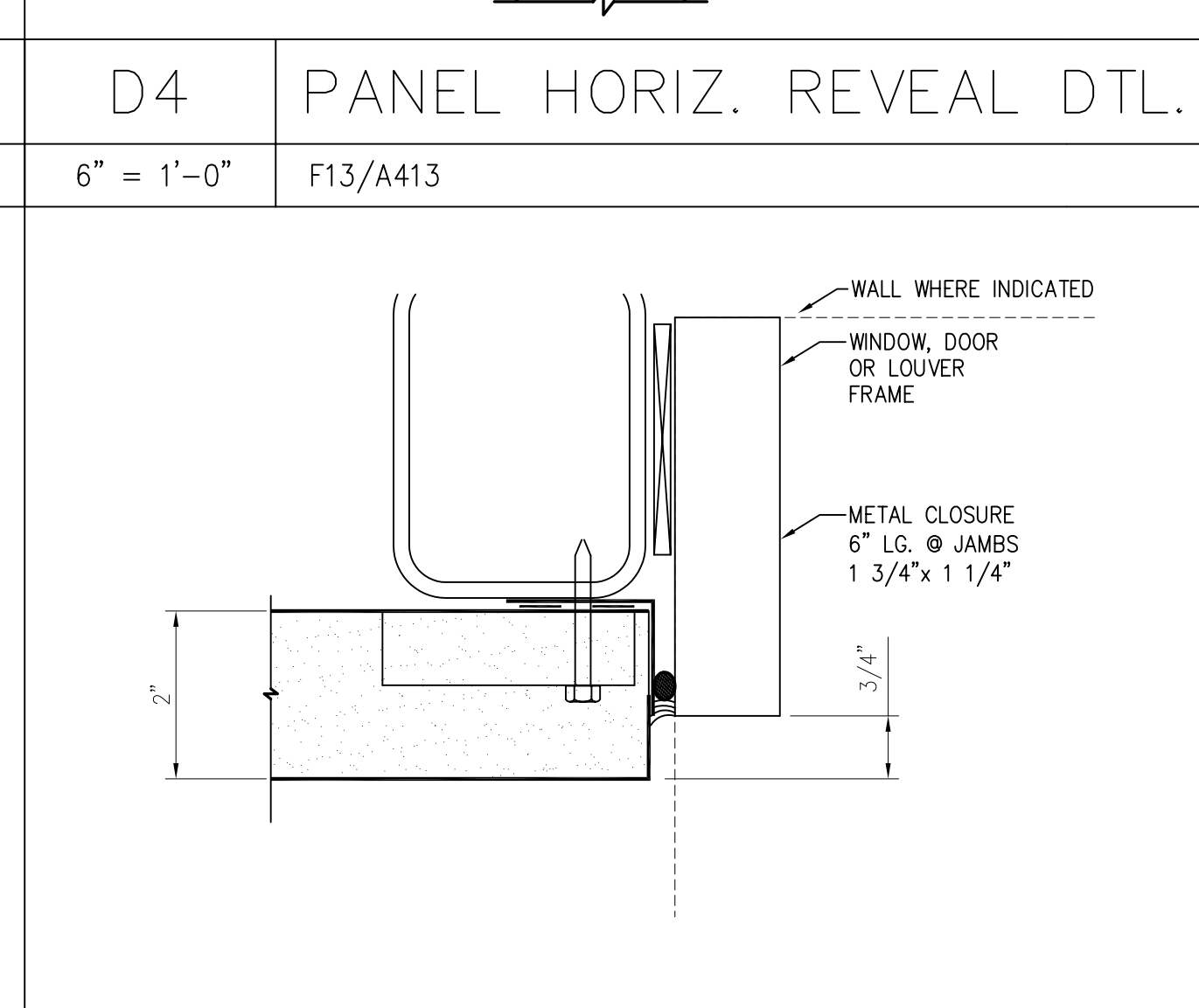
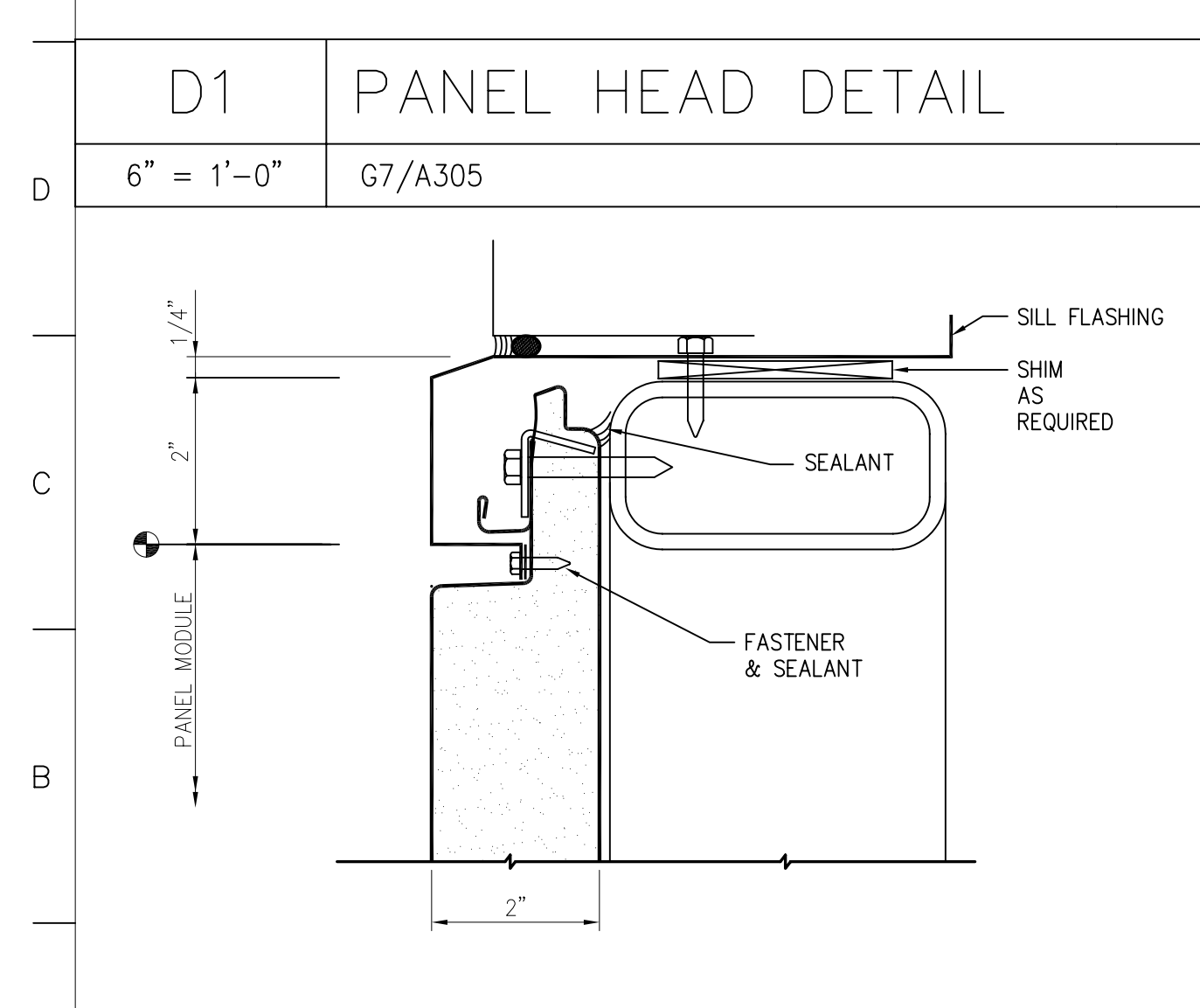
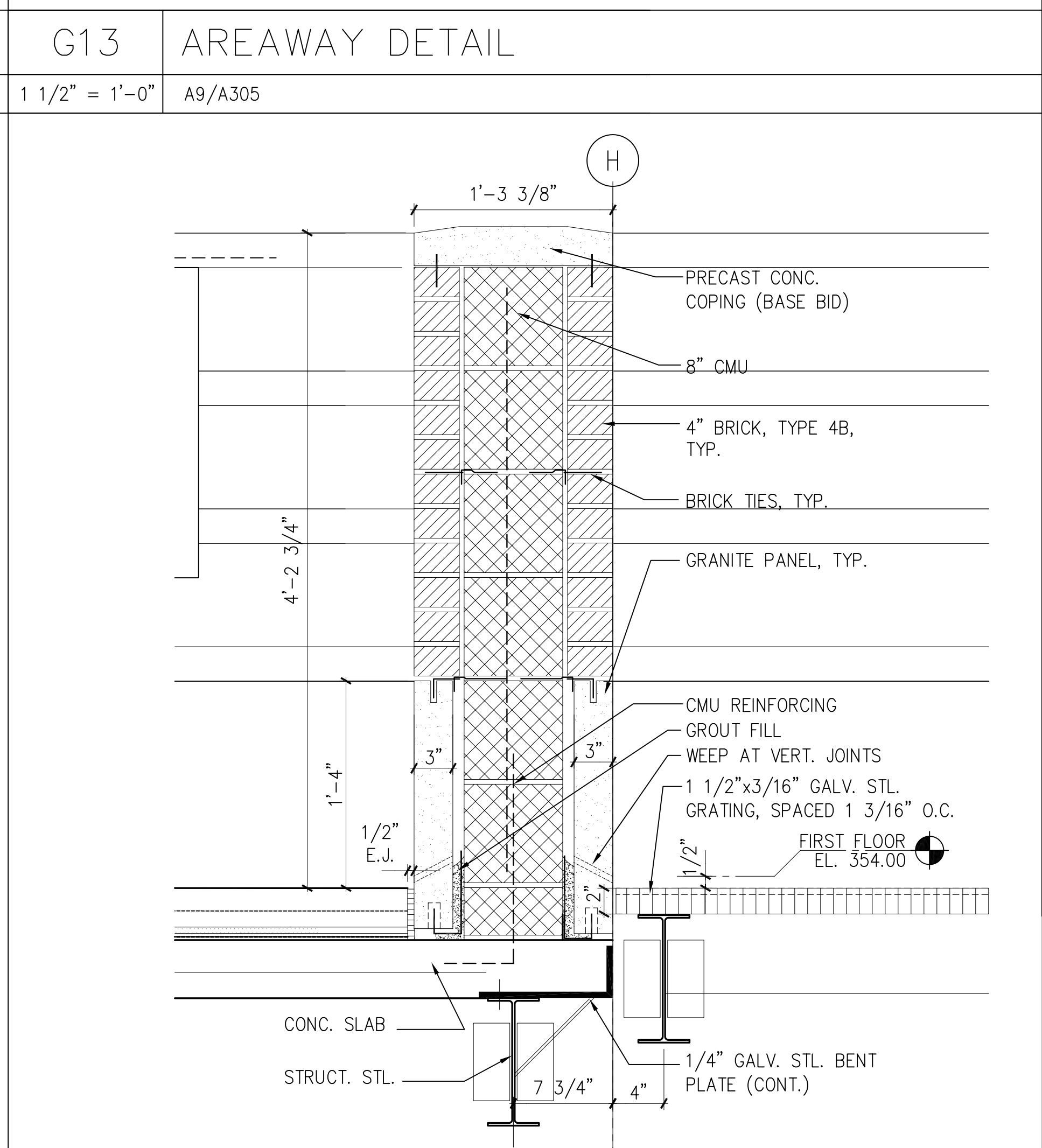
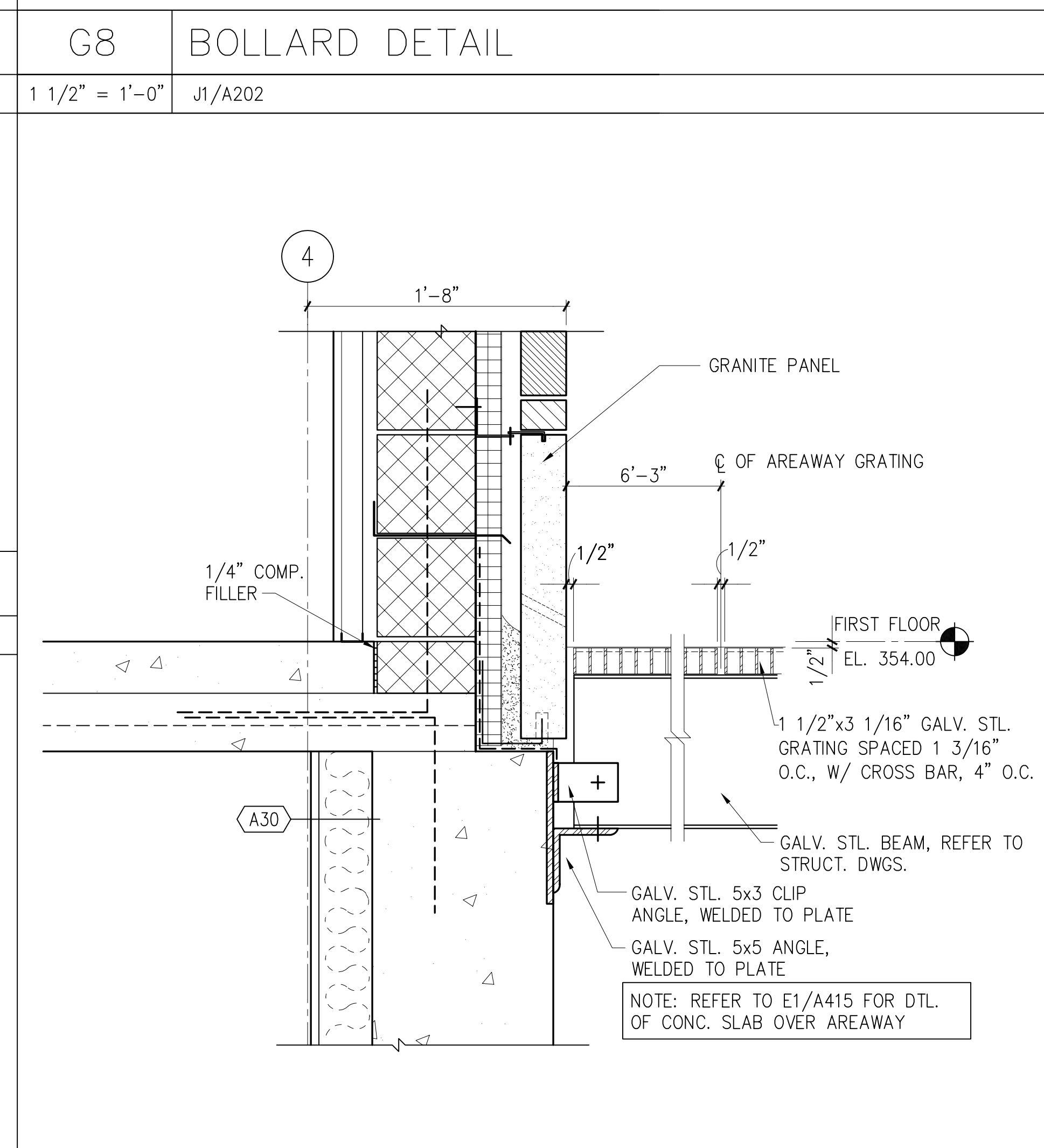
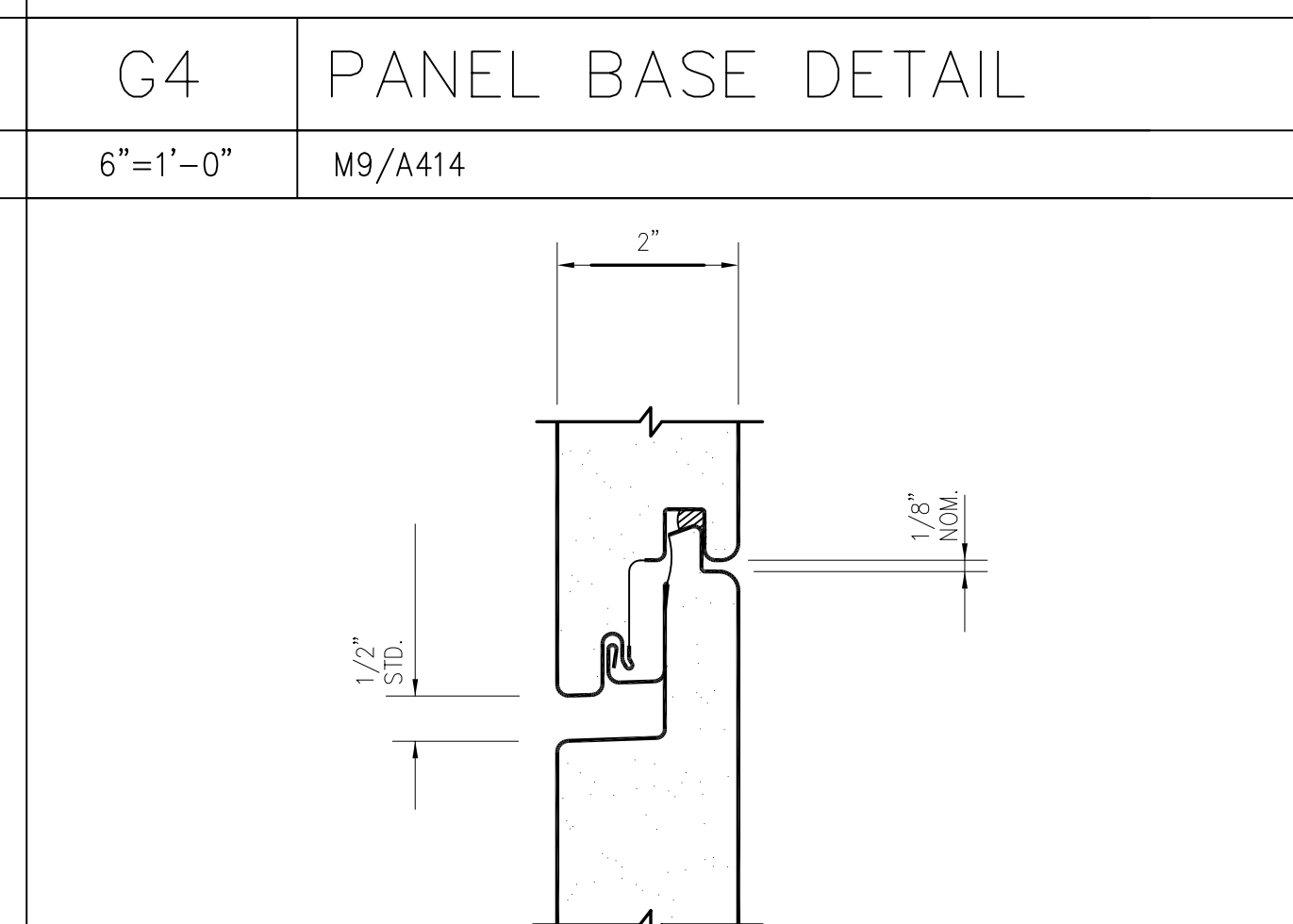
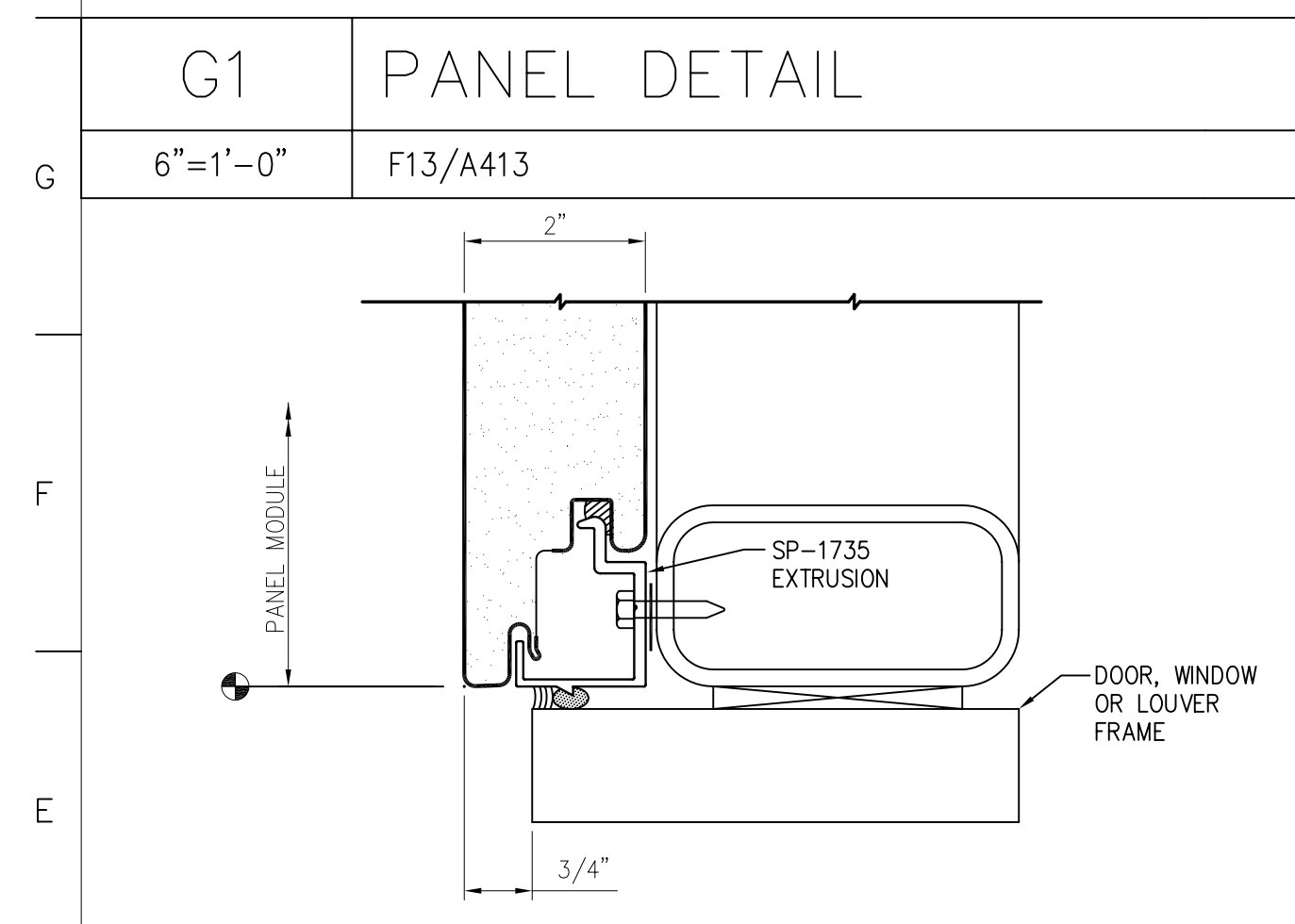
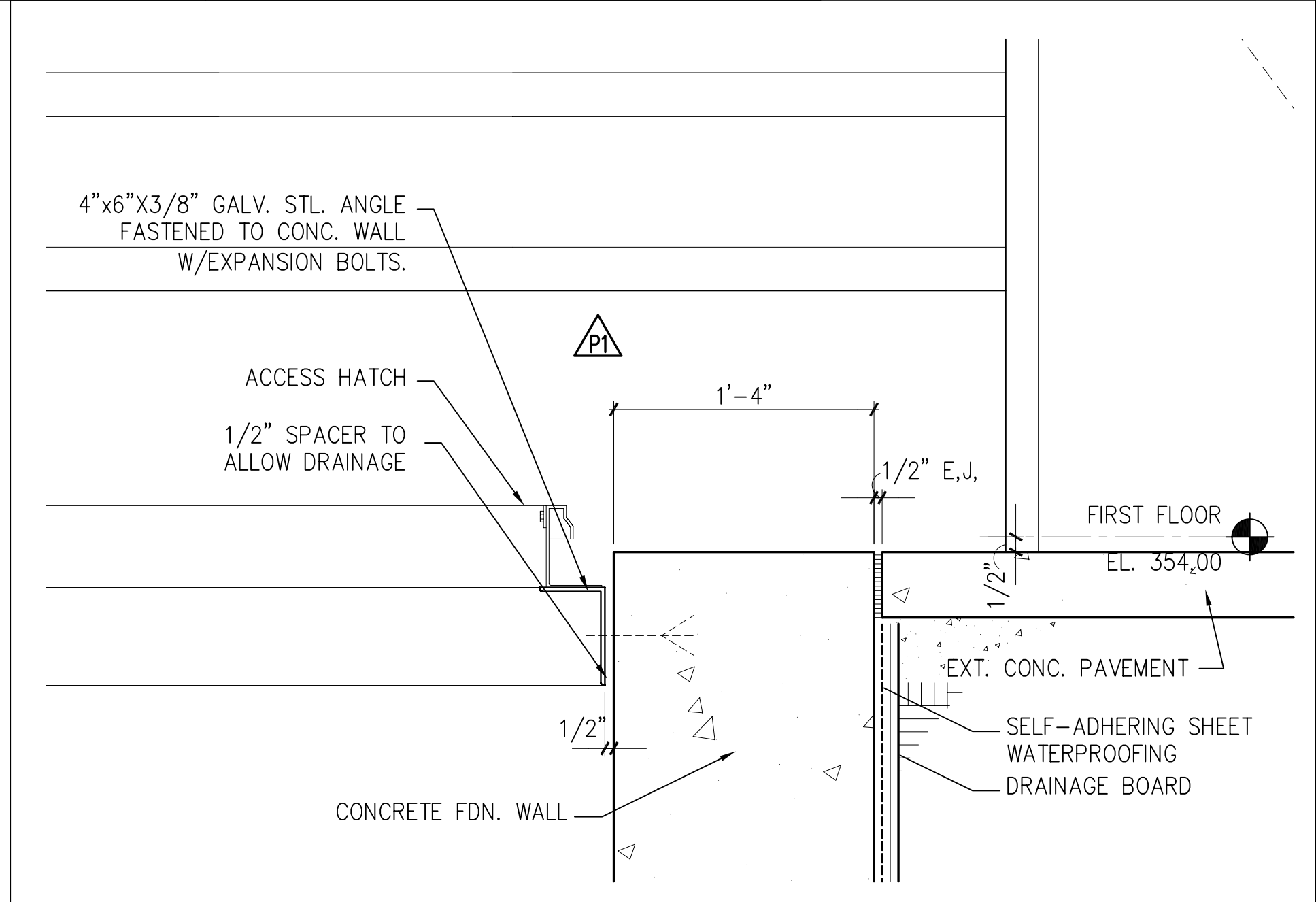
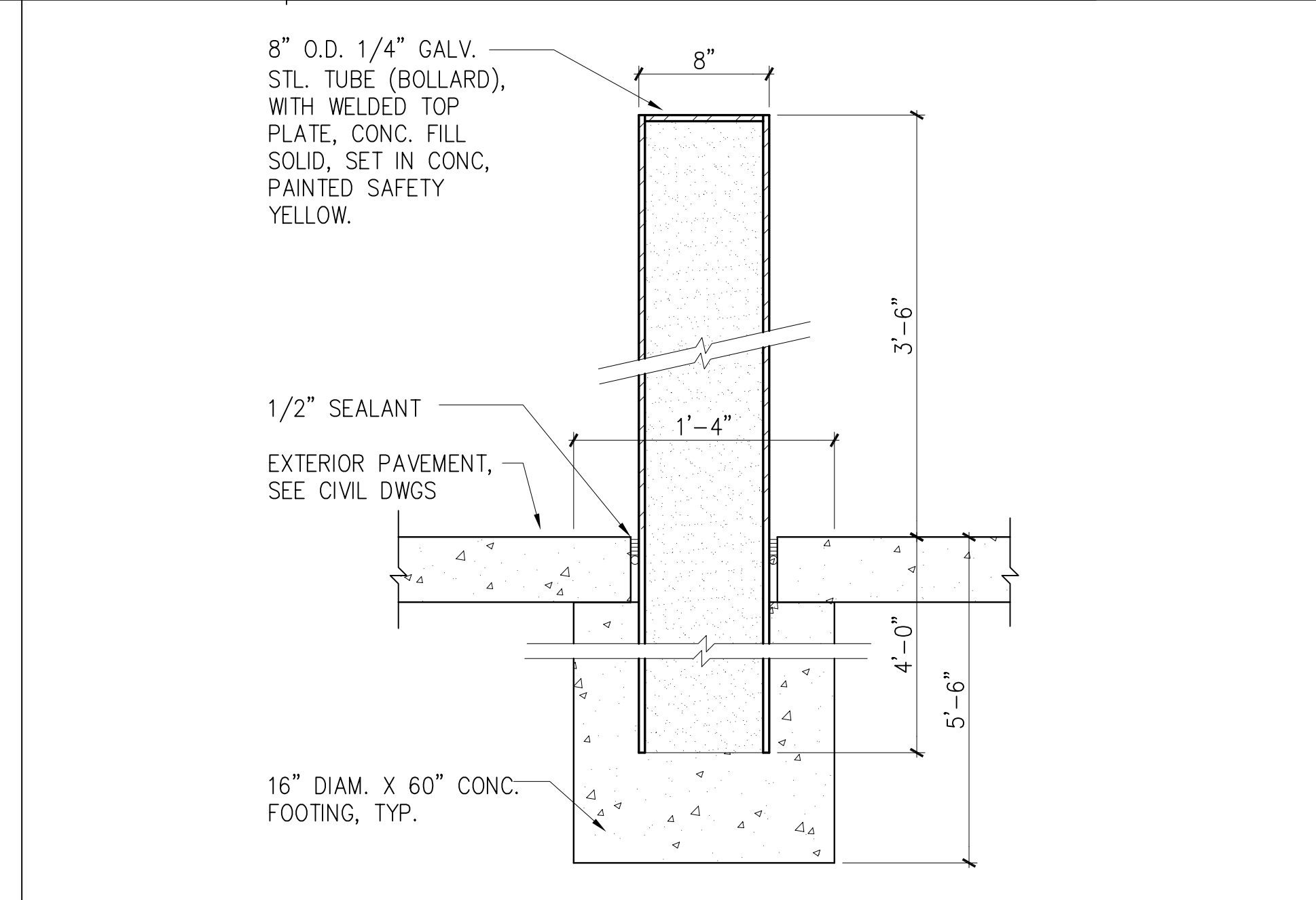
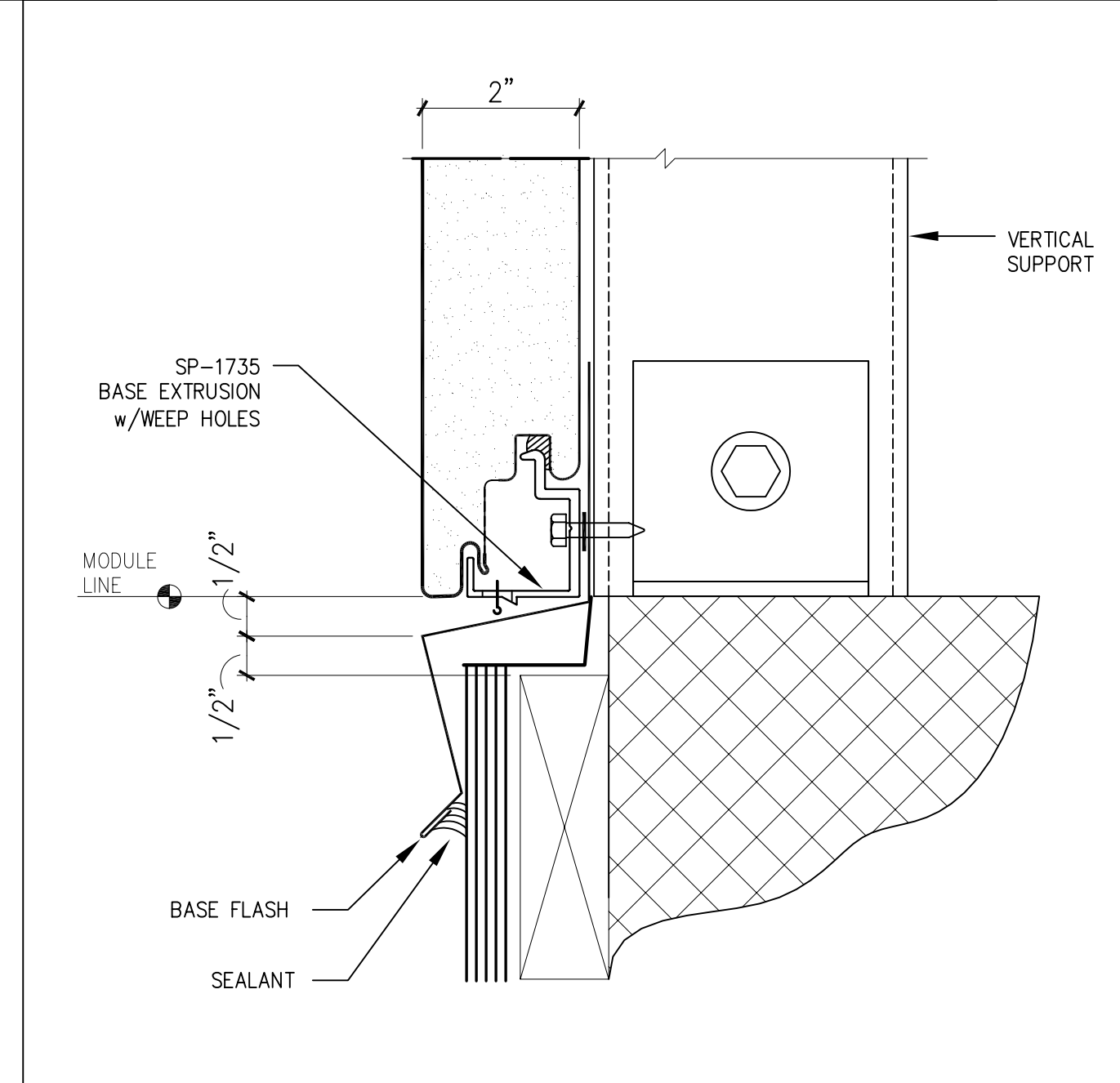
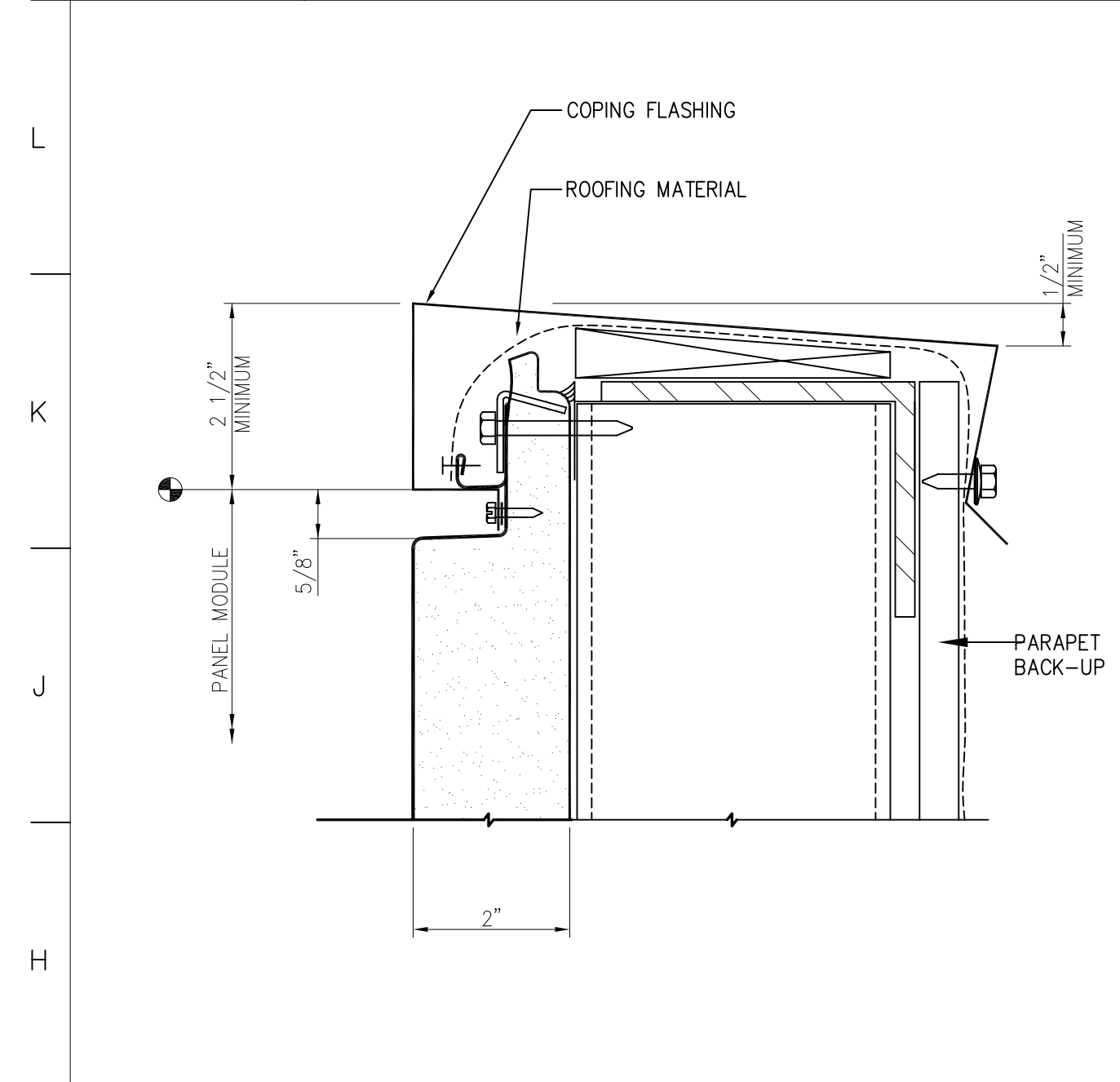
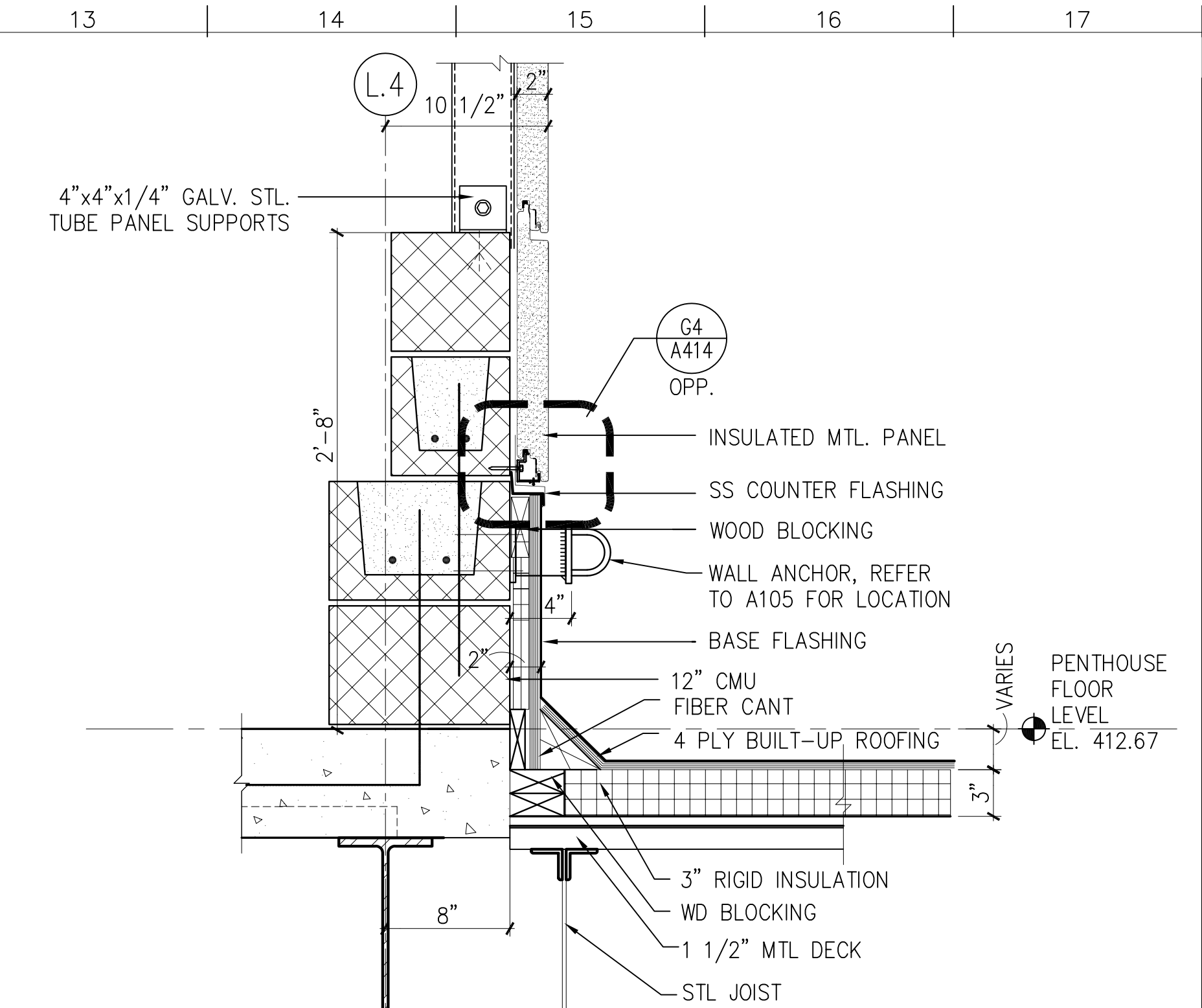
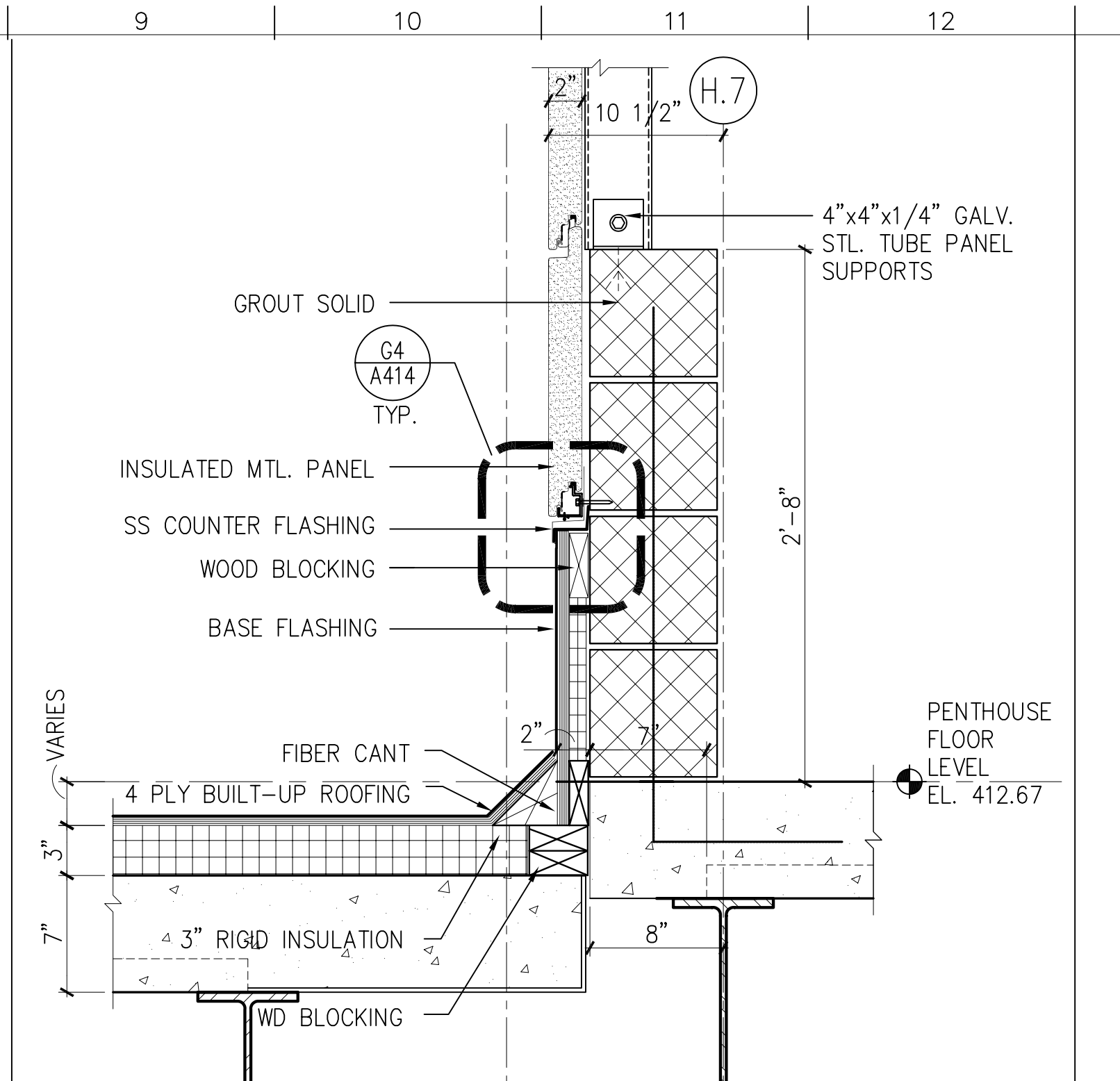
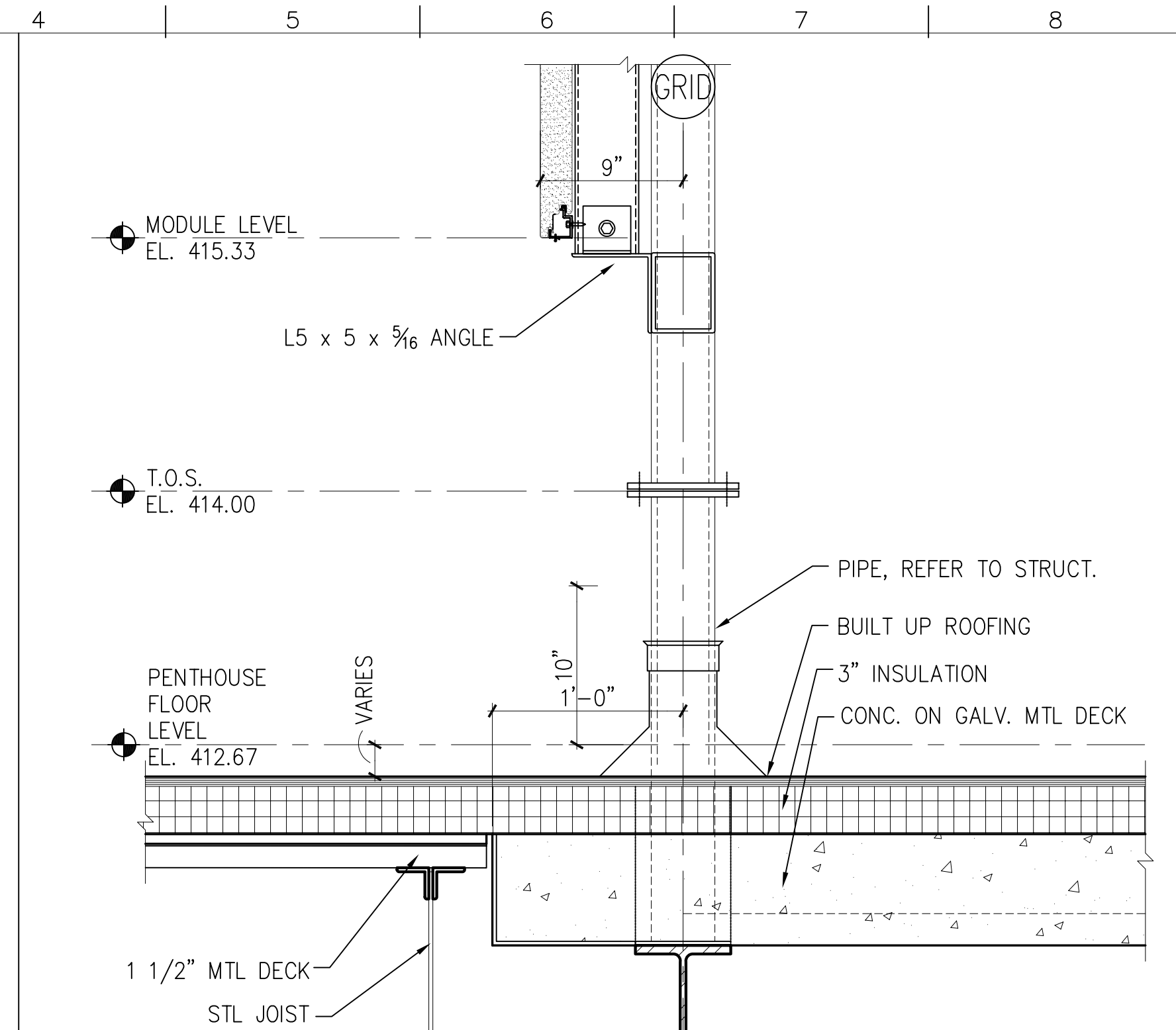
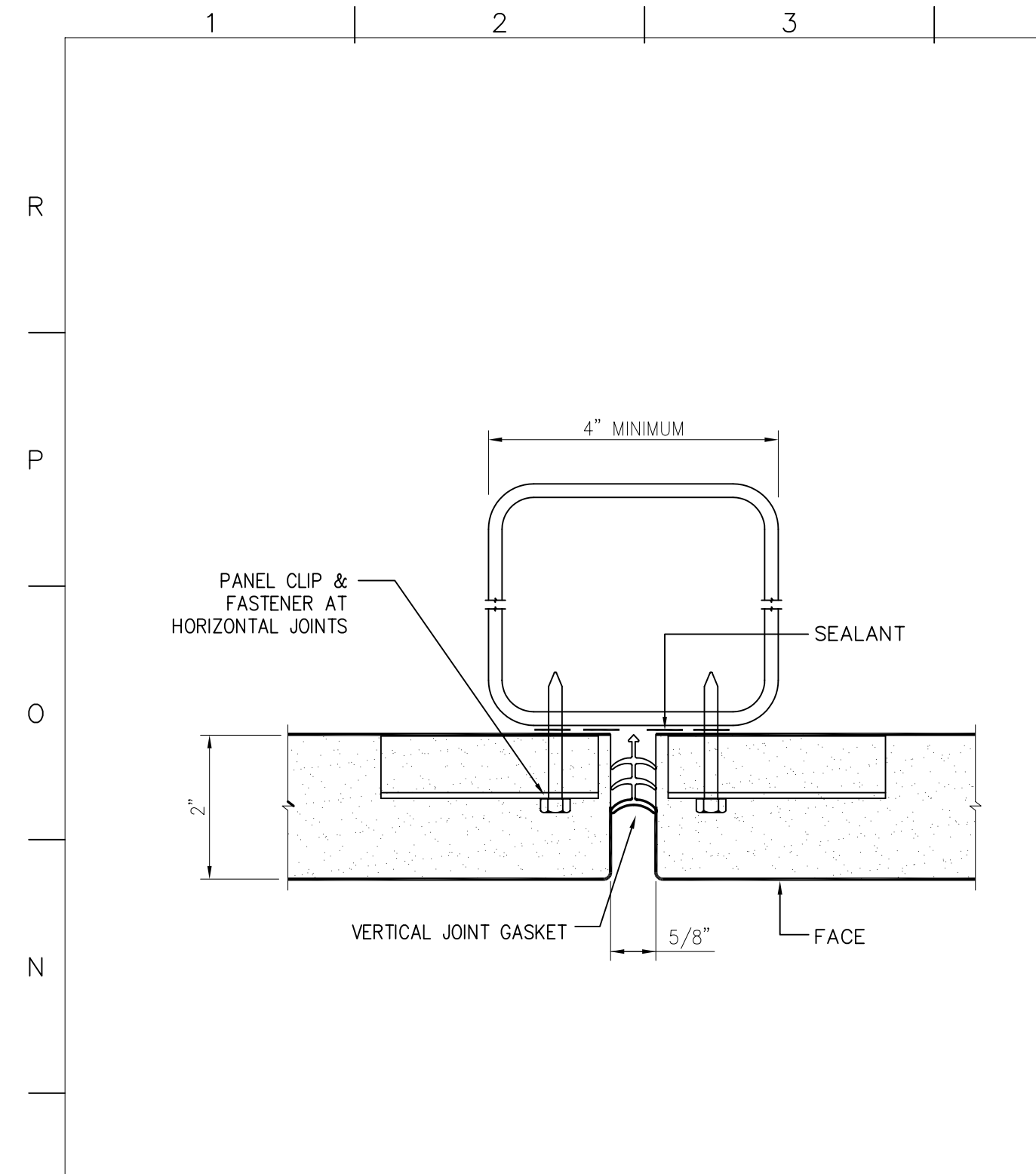
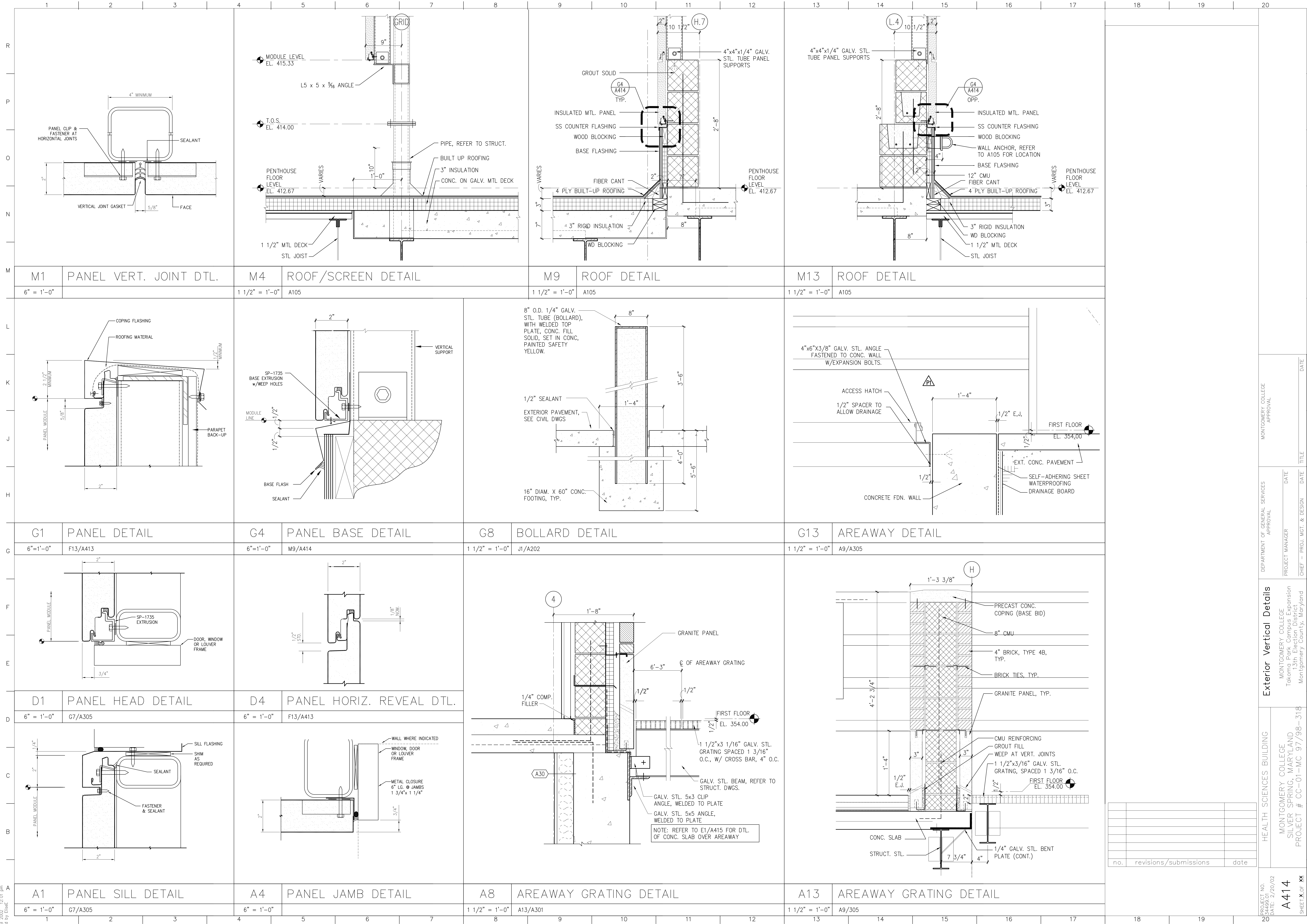
no.	revisions/submissions	date

PROJECT NO. 14499.01  
 DATE: 2/20/02  
**A413**  
 SHEET X OF XX

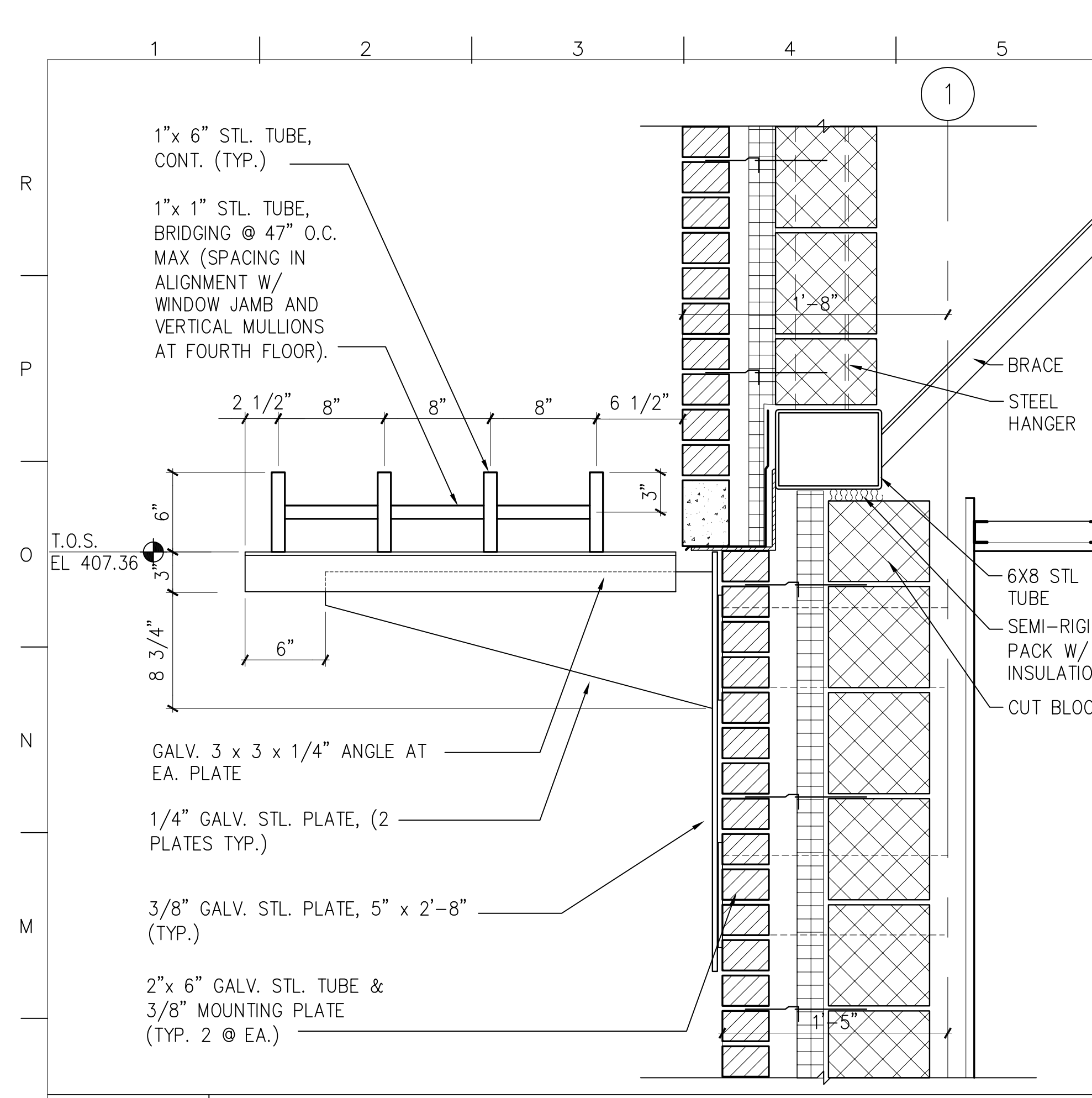
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Roof and Exterior Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

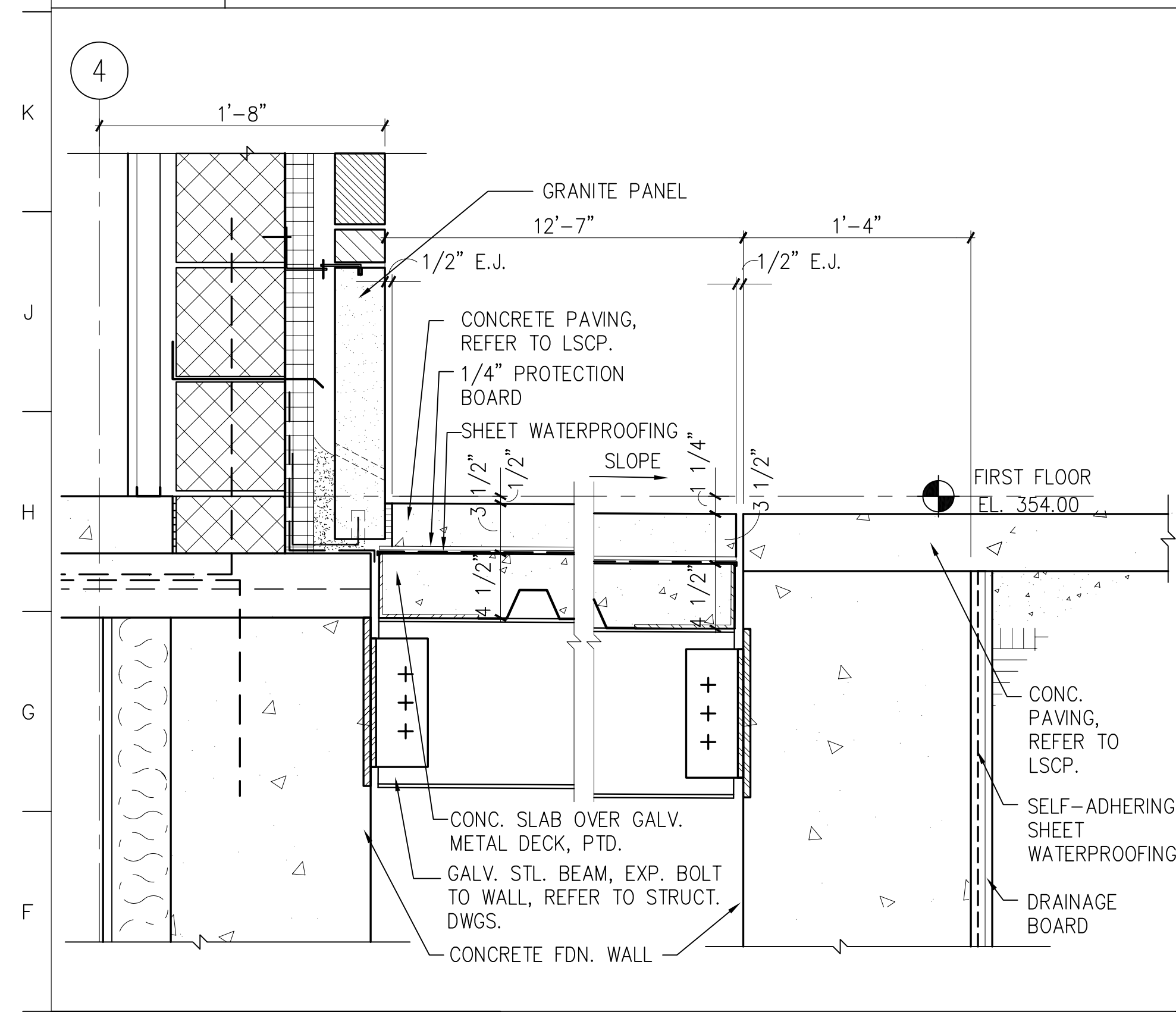
APPROVAL	DATE	TITLE	DATE
MONTEGOMERY COLLEGE			
DEPARTMENT OF GENERAL SERVICES			
APPROVAL			
PROJECT MANAGER			
CHIEF - PROJ. MGT. & DESIGN			



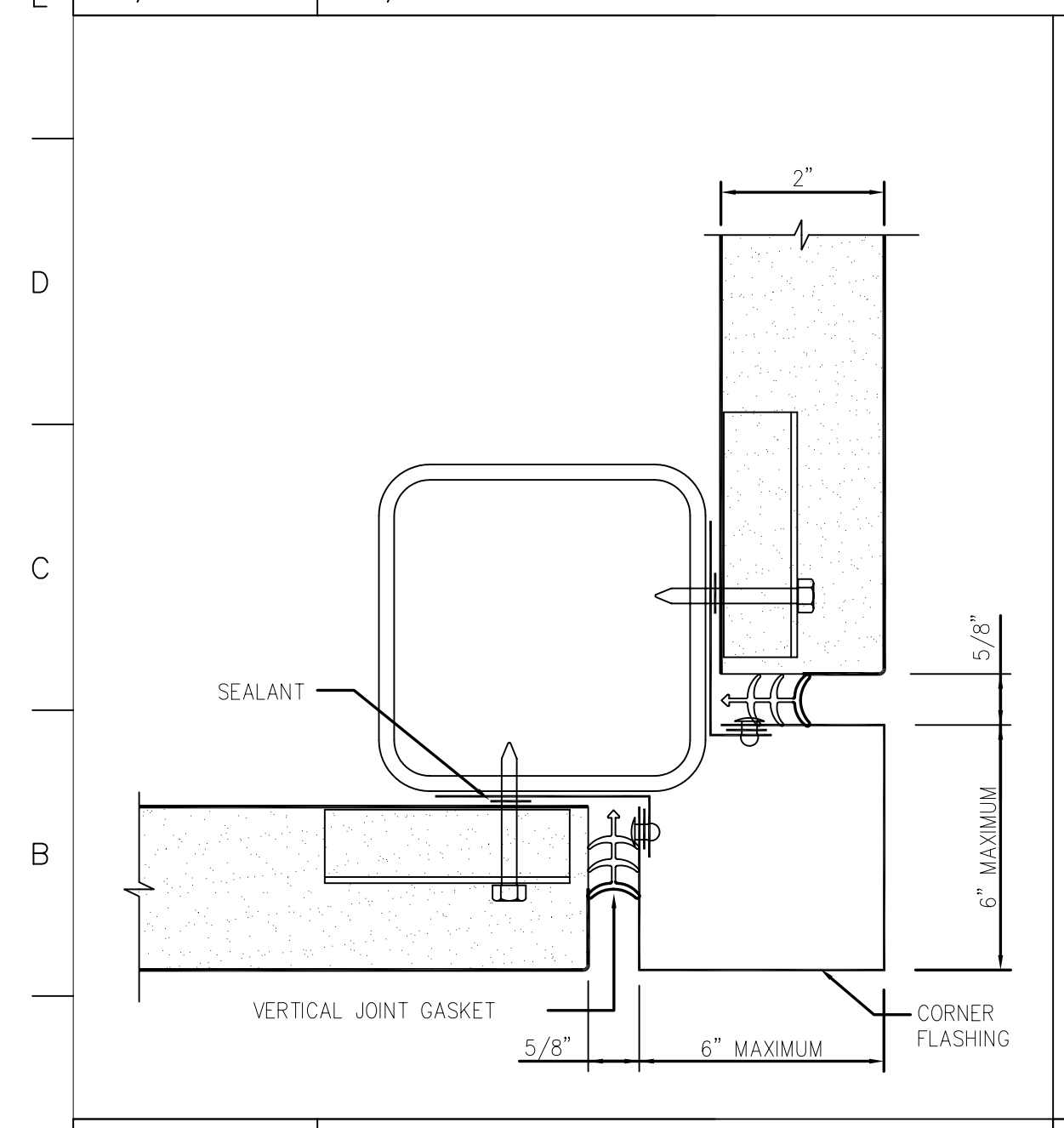
no.	revisions/submissions	date



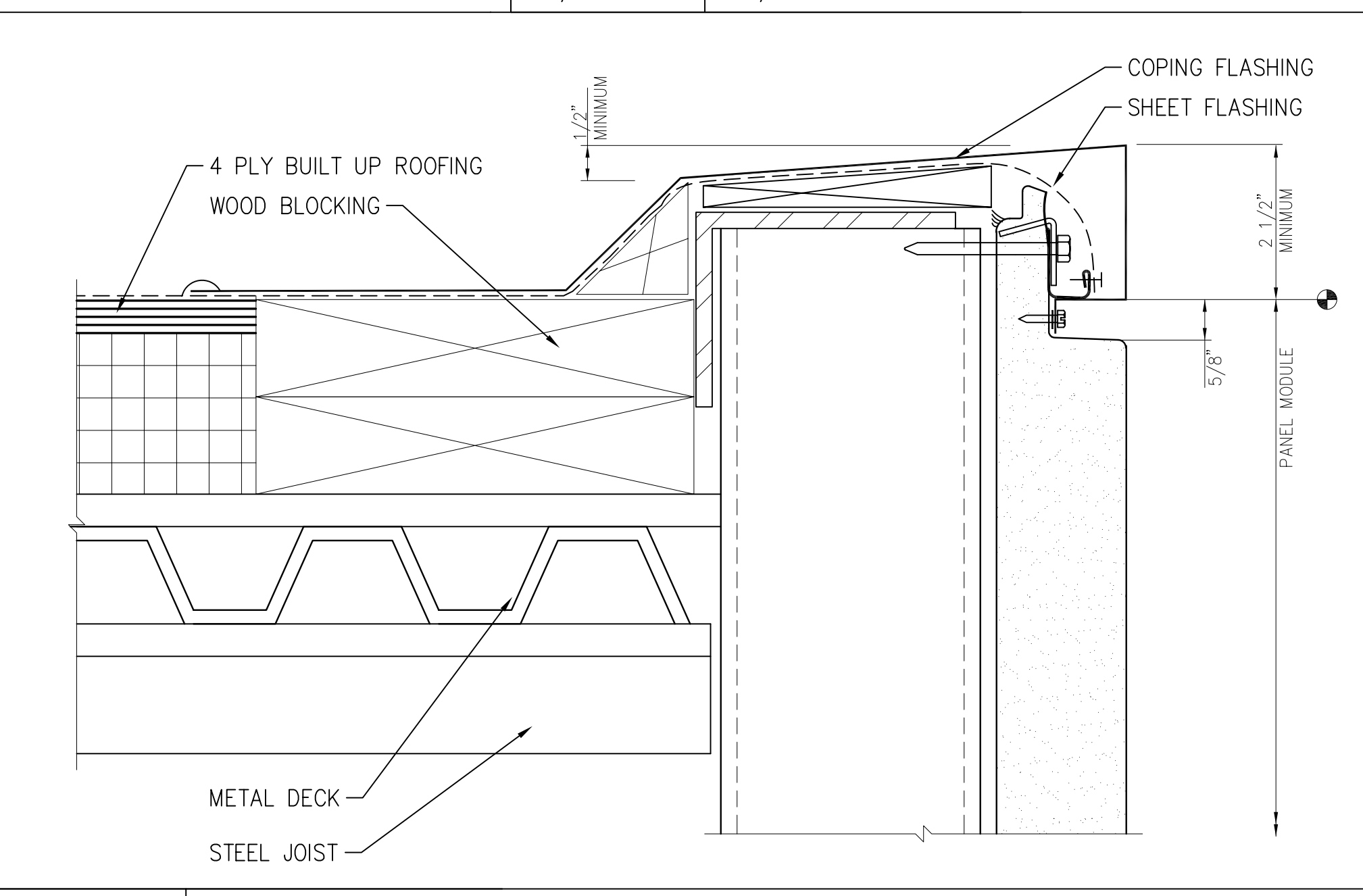
**L1 SUNSCREEN DETAIL**  
1 1/2" = 1'-0" N1/A203



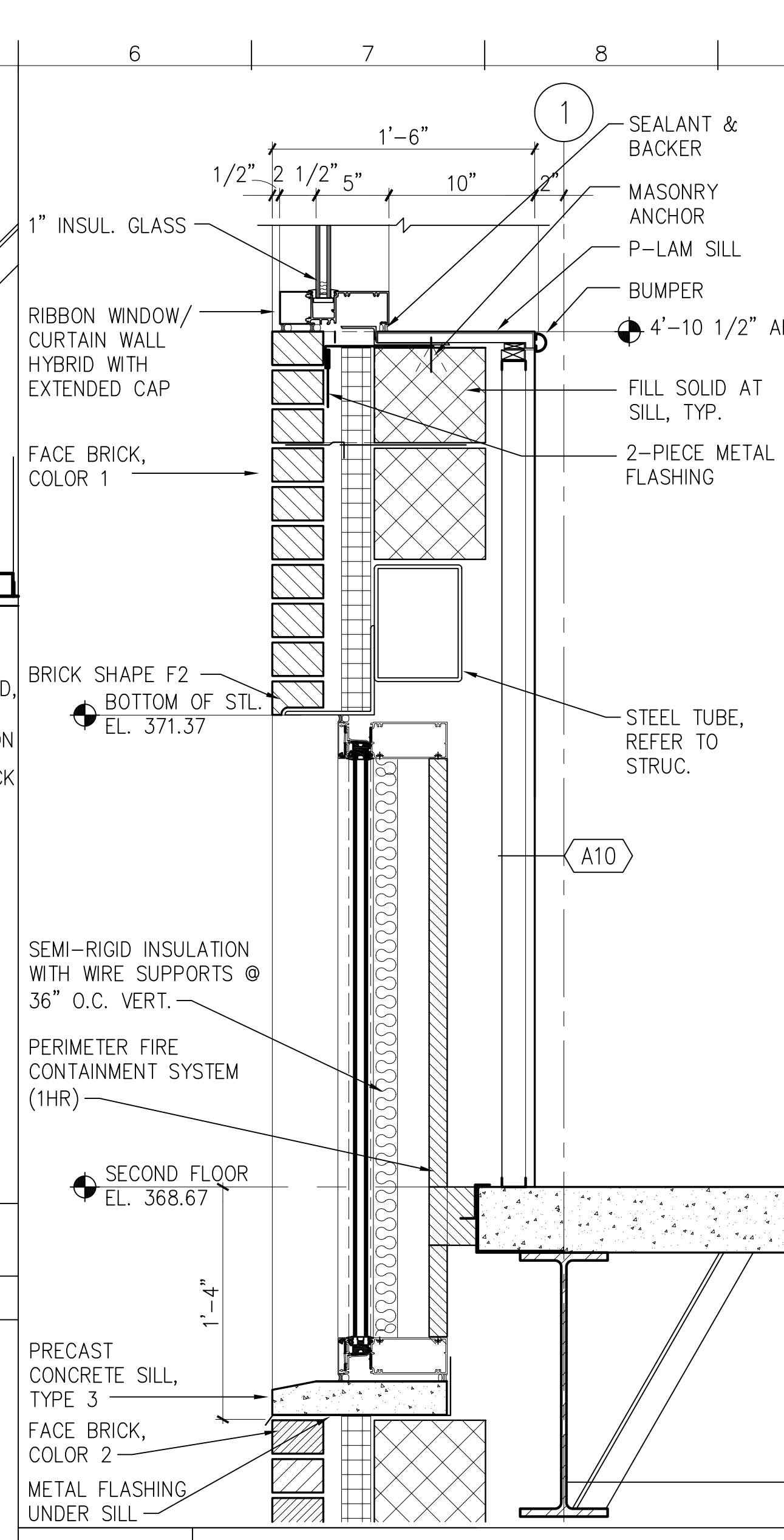
**E1 AREAWAY DETAIL**  
1 1/2" = 1'-0" A8/A414



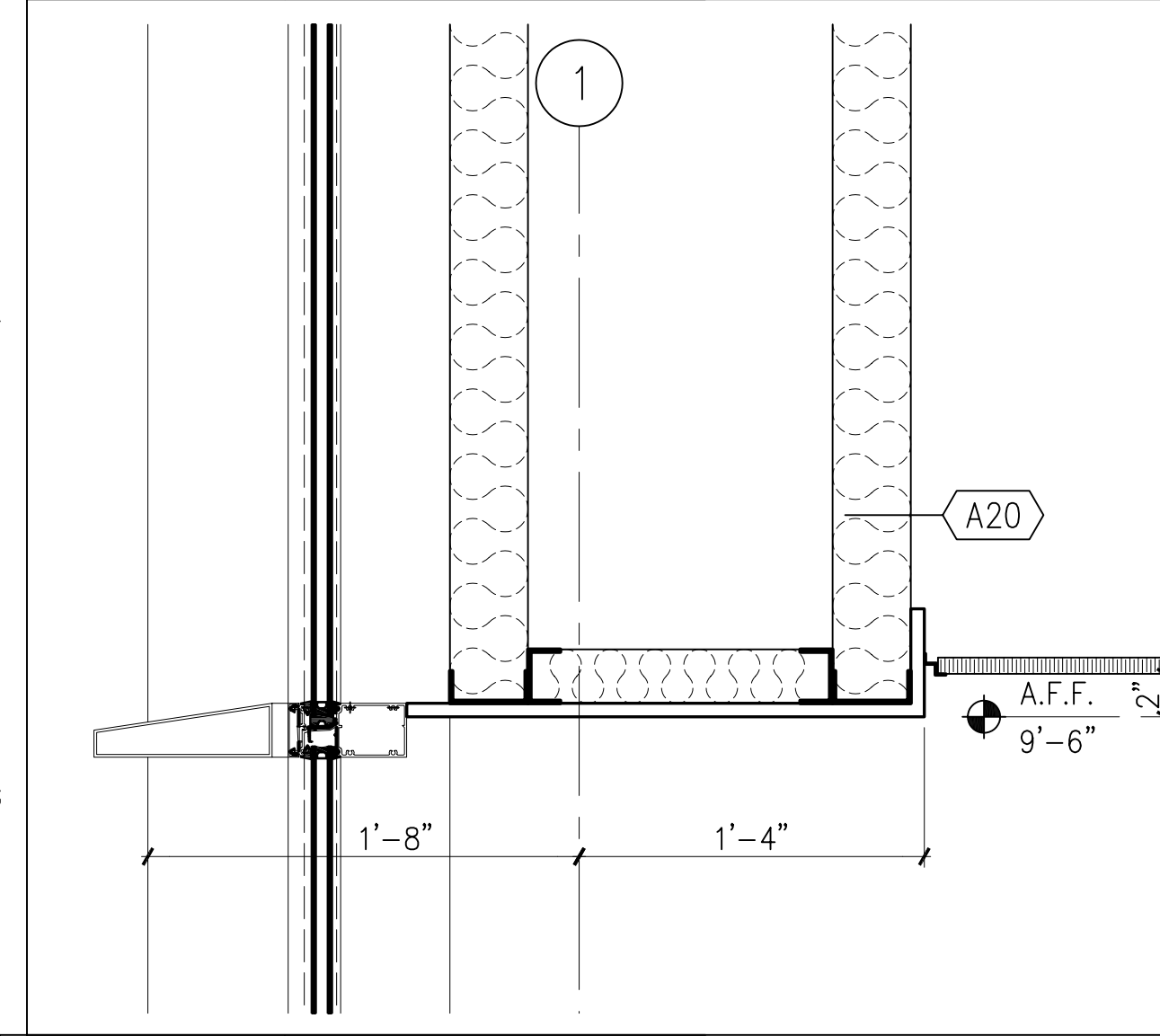
**A1 MTL. PANEL CORNER**  
6" = 1'-0" A105



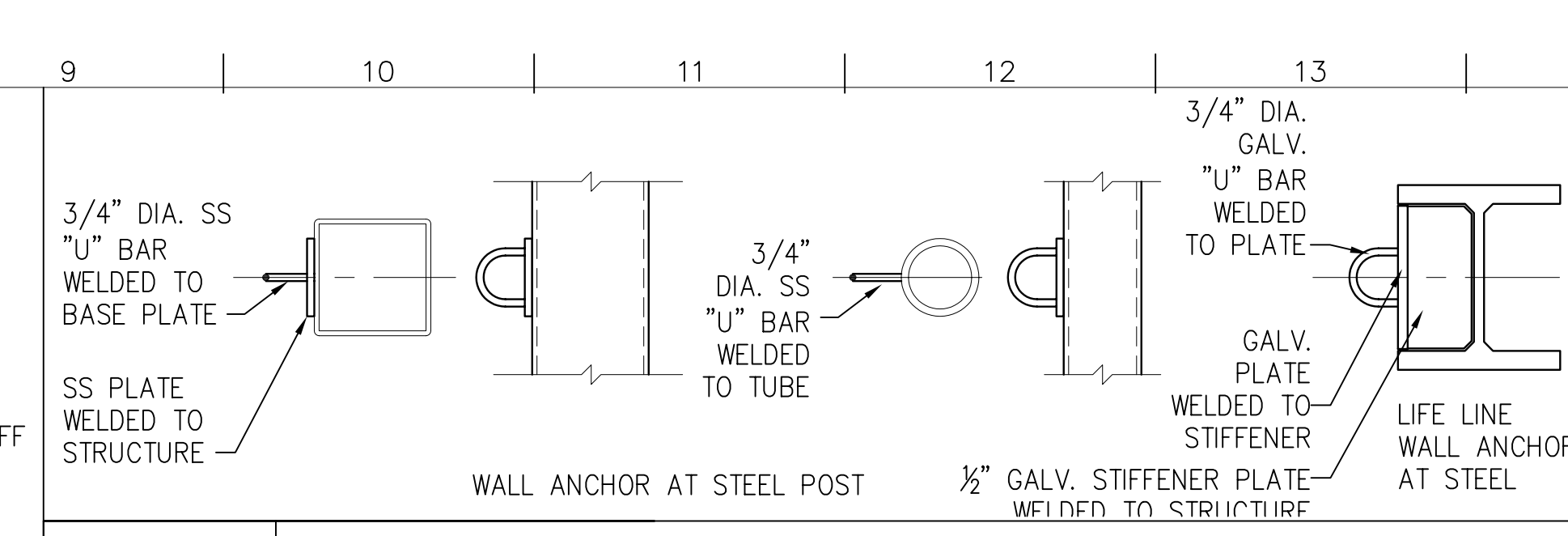
**A4 METAL PANEL HEAD DETAIL**  
6" = 1'-0" F13/A413



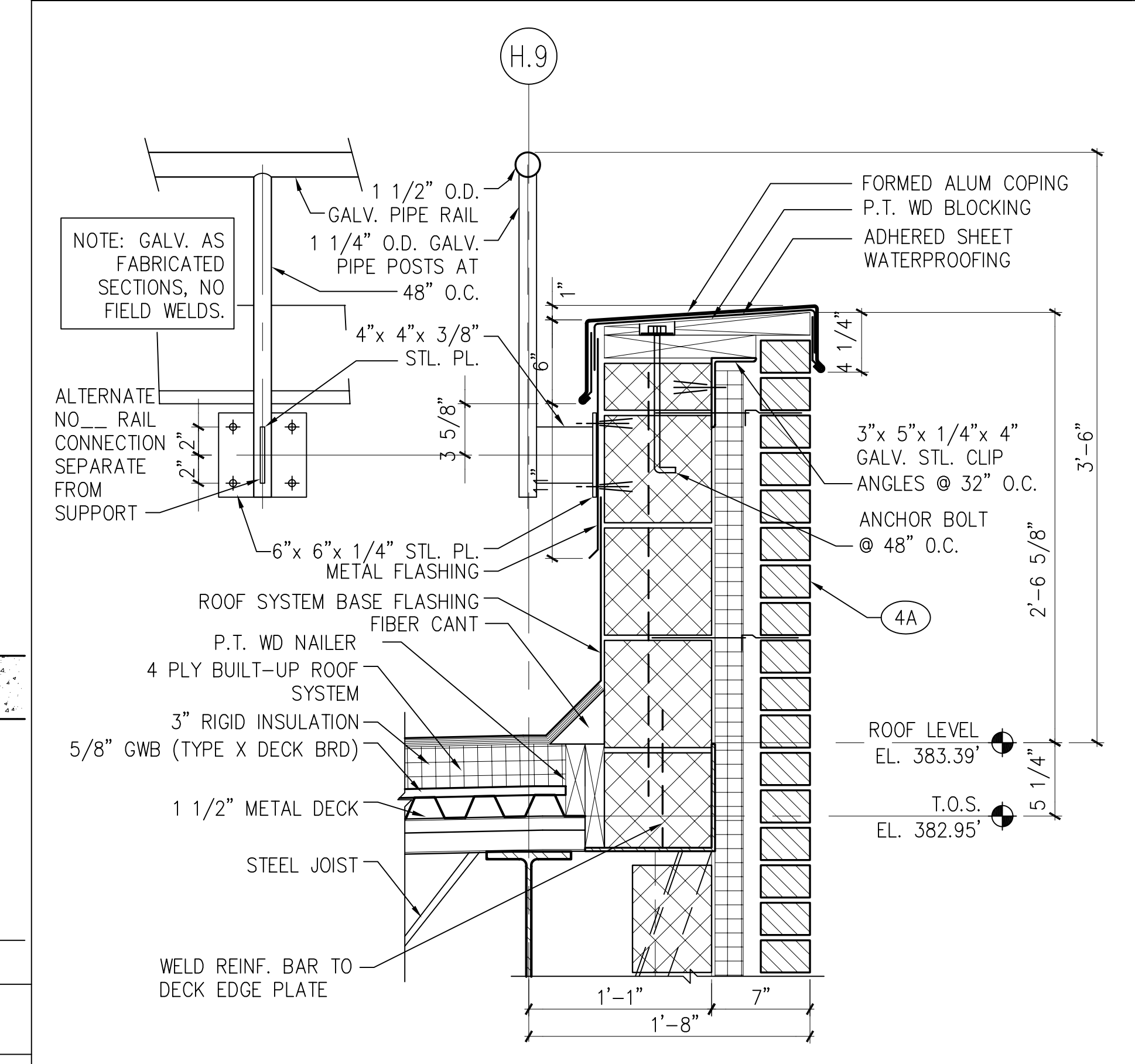
**J6 CURTAIN WALL DETAIL**  
1-1/2" = 1'-0" A14/A304



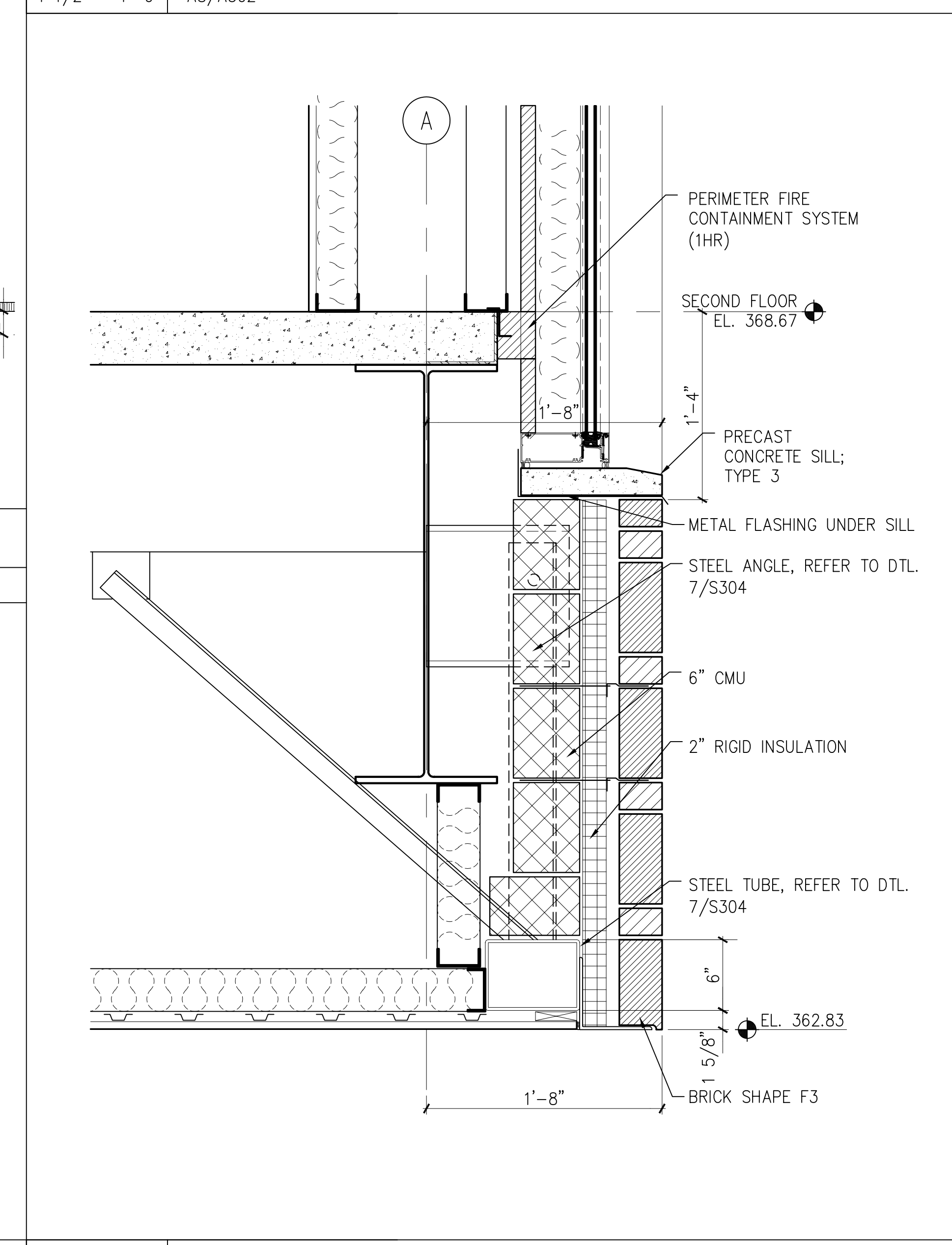
**E6 CURTAIN WALL DETAIL**  
1 1/2" = 1'-0" A7/A304



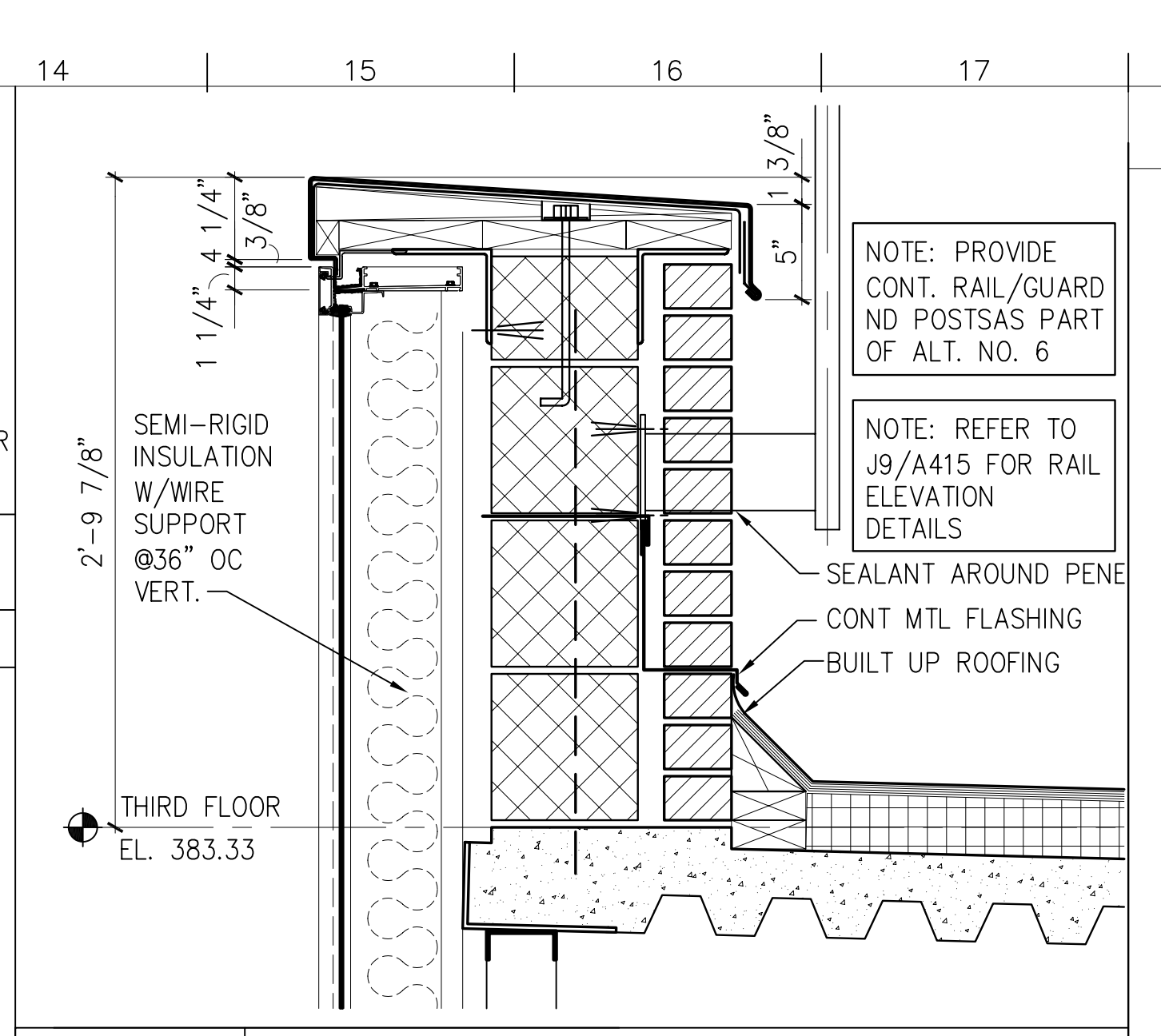
**P9 LLWA/ST AND WA/ST DETAILS**  
N.T.S. J9/A106



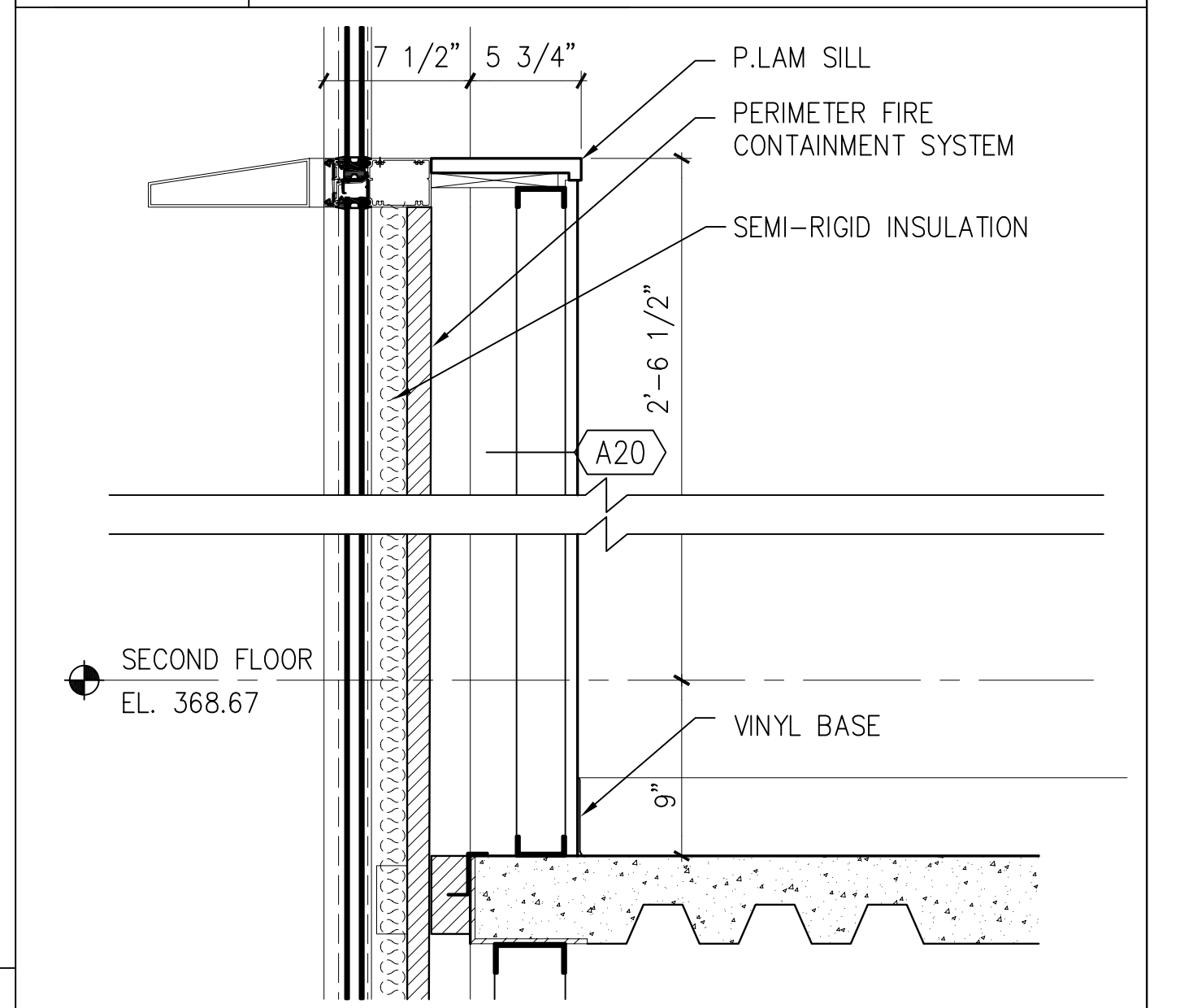
**J9 PARAPET DTL WITH RAILING**  
1 1/2" = 1'-0" A8/A302



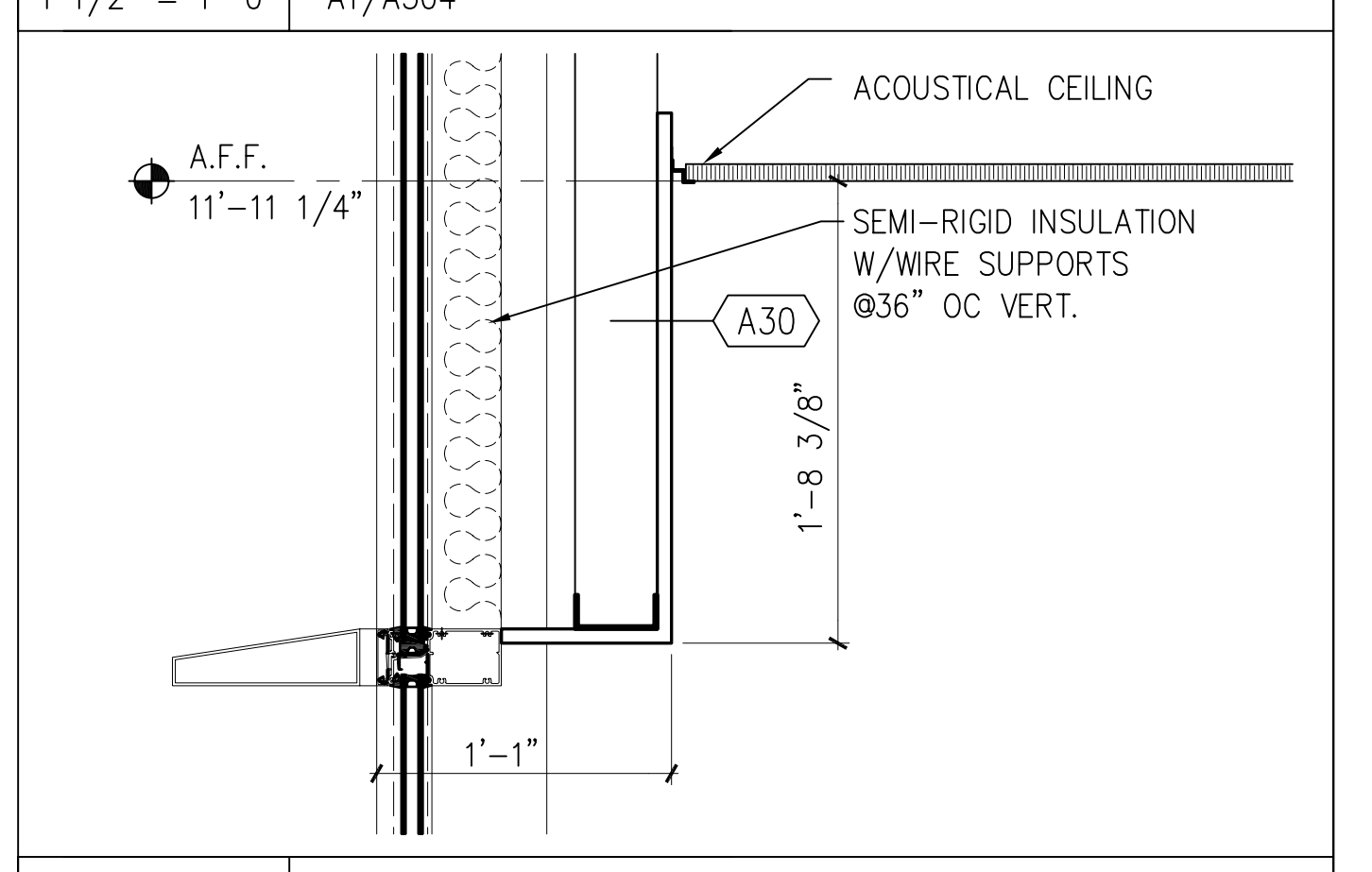
**A9 SPANDREL GLASS DETAIL**  
1 1/2" = 1'-0" A4/A304



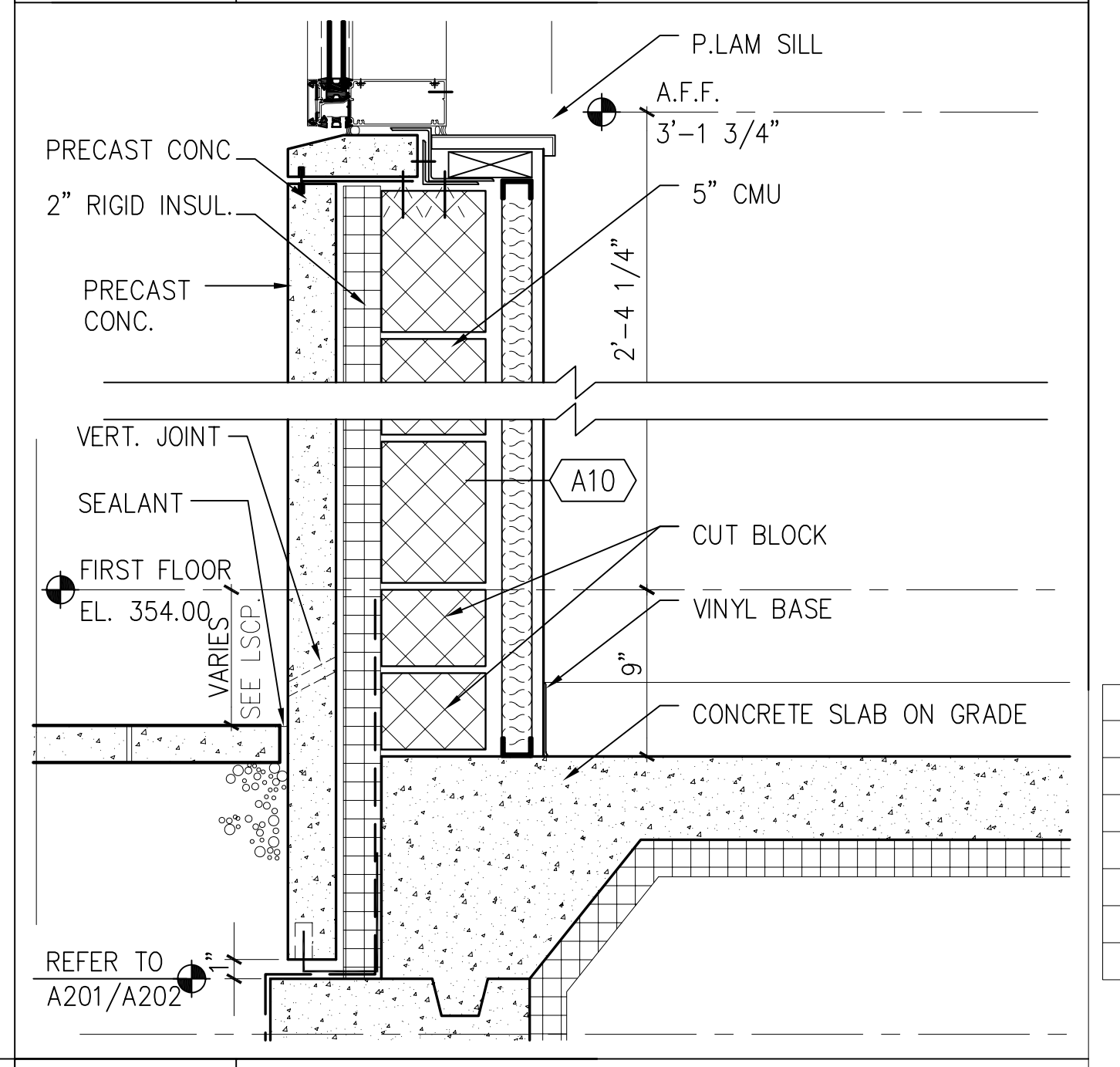
**N14 PARAPET DETAIL**  
1 1/2" = 1'-0" A1/A304



**J14 CURTAIN WALL DETAIL**  
1 1/2" = 1'-0" A1/A304



**E14 CURTAIN WALL DETAIL**  
1 1/2" = 1'-0" A1/A304



**A14 SILL DETAIL**  
1 1/2" = 1'-0" A1/A304

no.		revisions/submissions	date

PROJECT NO. 4449501  
 DATE: 2/20/02  
**A415**  
 SHEET X OF XX

**Health Sciences Building**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Exterior Vertical Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL  
 DATE

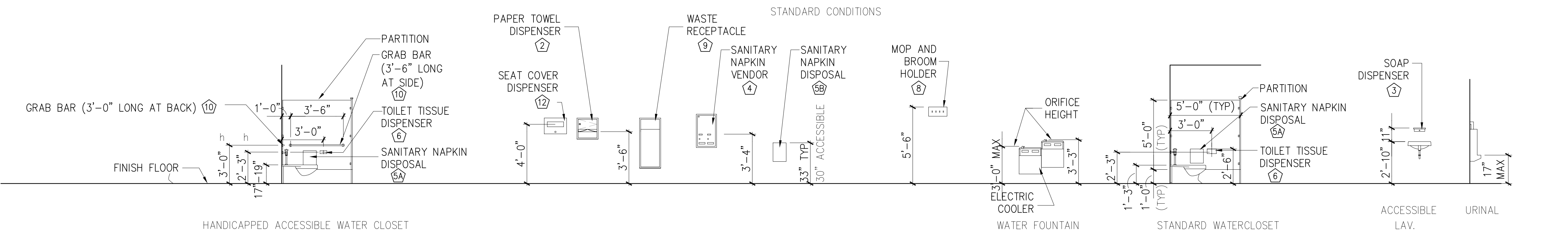
P:\10291\3449501\Arch\Plot\FHSB-4415.DWG  
 PLOTTED BY: JLS  
 DATE: 2/25/02



THE HEIGHTS SHOWN ON THIS DRAWING ARE TYPICAL AND DO NOT NECESSARILY SHOW ALL DEVICES THAT ARE LOCATED ON THE WALLS.

THE OBJECT OF THIS DRAWING IS TO ESTABLISH GUIDE LINES FOR THE LOCATION OF DEVICES VERTICALLY AT THE WALL GENERALLY THROUGHOUT THE PROJECT.

THE DIMENSIONS CALLED OUT ARE TO THE TOP OR BOTTOM OF DEVICES FACE PLATE AS SHOWN, UNLESS INDICATED OTHERWISE.



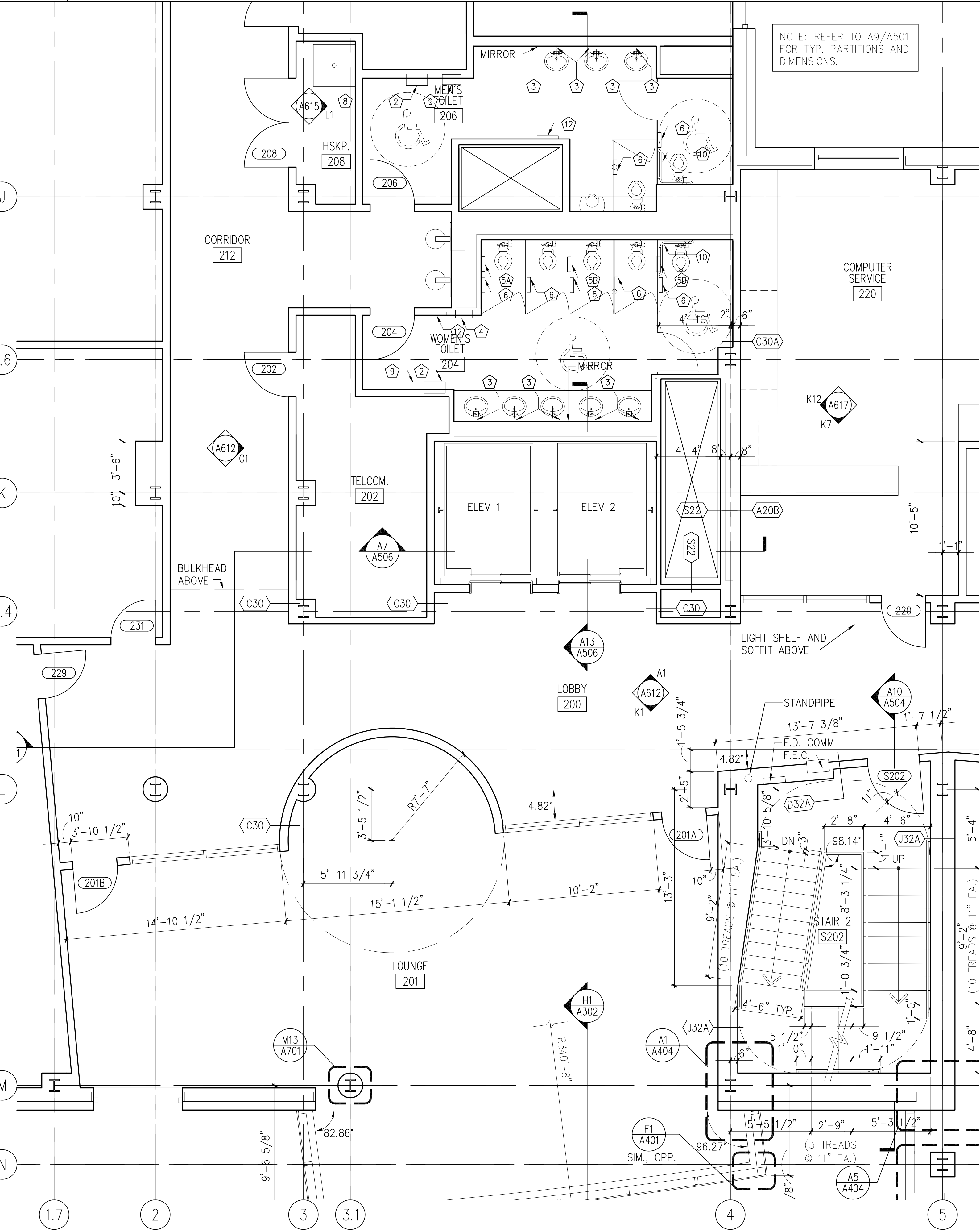
TOILET ACCESSORY SCHED.

☐ → TBA NUMBER IN THE TOILET ACCESSORY SCHEDULE IN THE SPECIFICATIONS

- ① MIRROR UNIT
- ② PAPER TOWEL DISPENSER
- ③ SOAP DISPENSER
- ④ SANITARY NAPKIN VENDOR
- ⑤ WALL MOUNTED SANITARY NAPKIN DISPOSAL UNIT
- ⑥ PARTITION MOUNTED SANITARY NAPKIN DISPOSAL UNIT
- ⑦ TOILET TISSUE DISPENSER
- ⑧ SHELF
- ⑨ MOP AND BROOM HOLDER
- ⑩ WASTE RECEPTACLE
- ⑪ GRAB BAR
- ⑫ SHOWER ROD
- ⑬ SEAT COVER DISPENSER
- ⑭ FOLDING SHOWER SEAT
- ⑮ ROBE HOOK
- ⑯ TOWEL BAR
- ⑰ SPECIMEN PASS-THROUGH WINDOW
- ⑱ GLOVE DISPENSER
- ⑲ GLOVE DISPENSER

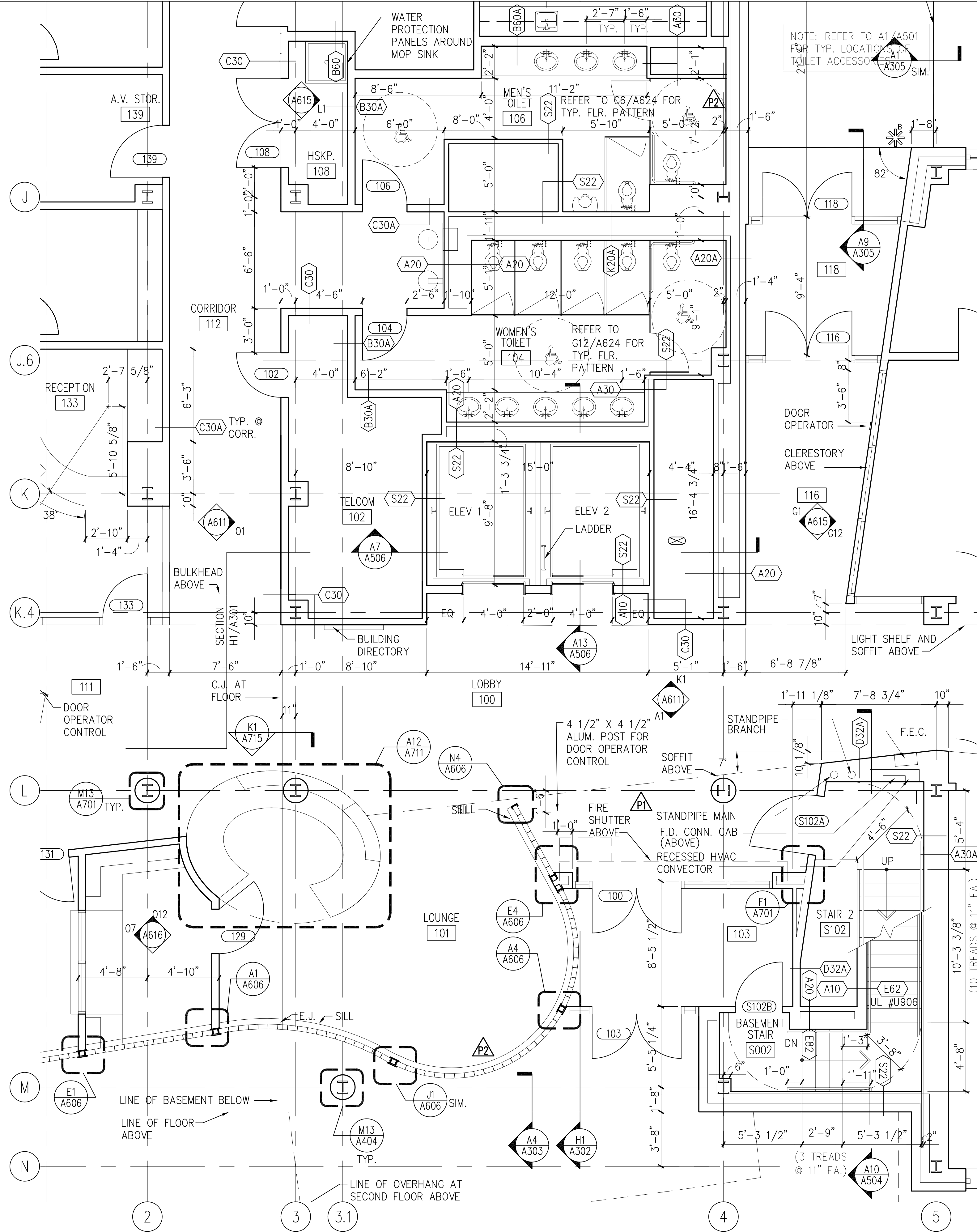
N1 TYPICAL TOILET FIXTURE AND TOILET ACCESSORY MOUNTING HEIGHTS

1/4"=1'-0"



A1 CORE PLAN @ SECOND FLOOR: LOBBY AND STAIR # 2

1/4"=1'-0"



A9 CORE PLAN @ FIRST FLOOR: LOBBY AND STAIR # 2

1/4"=1'-0"

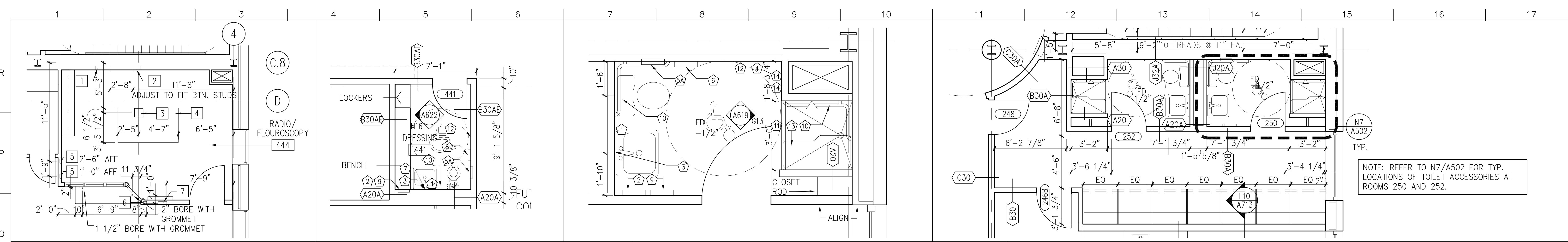
no.	revisions/submissions	date

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

**Core Plans**  
MONTGOMERY COLLEGE  
Silver Spring, Maryland  
13th Election District  
Montgomery County, Maryland  
PROJECT # CC-01-MC-97/98-318

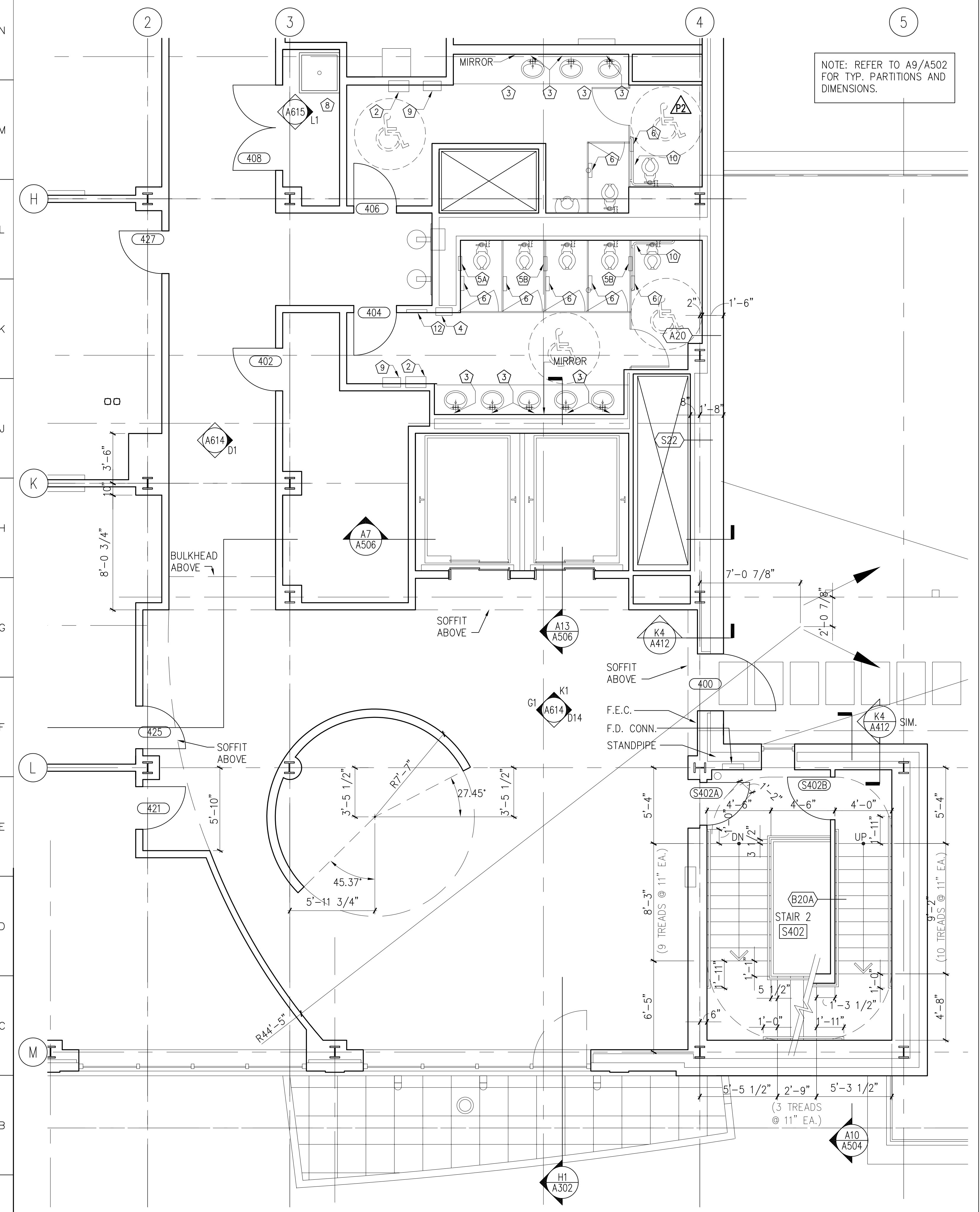
PROJECT NO. 34495-01  
DATE: 2/20/02  
**A501**  
SHEET 1 OF 11



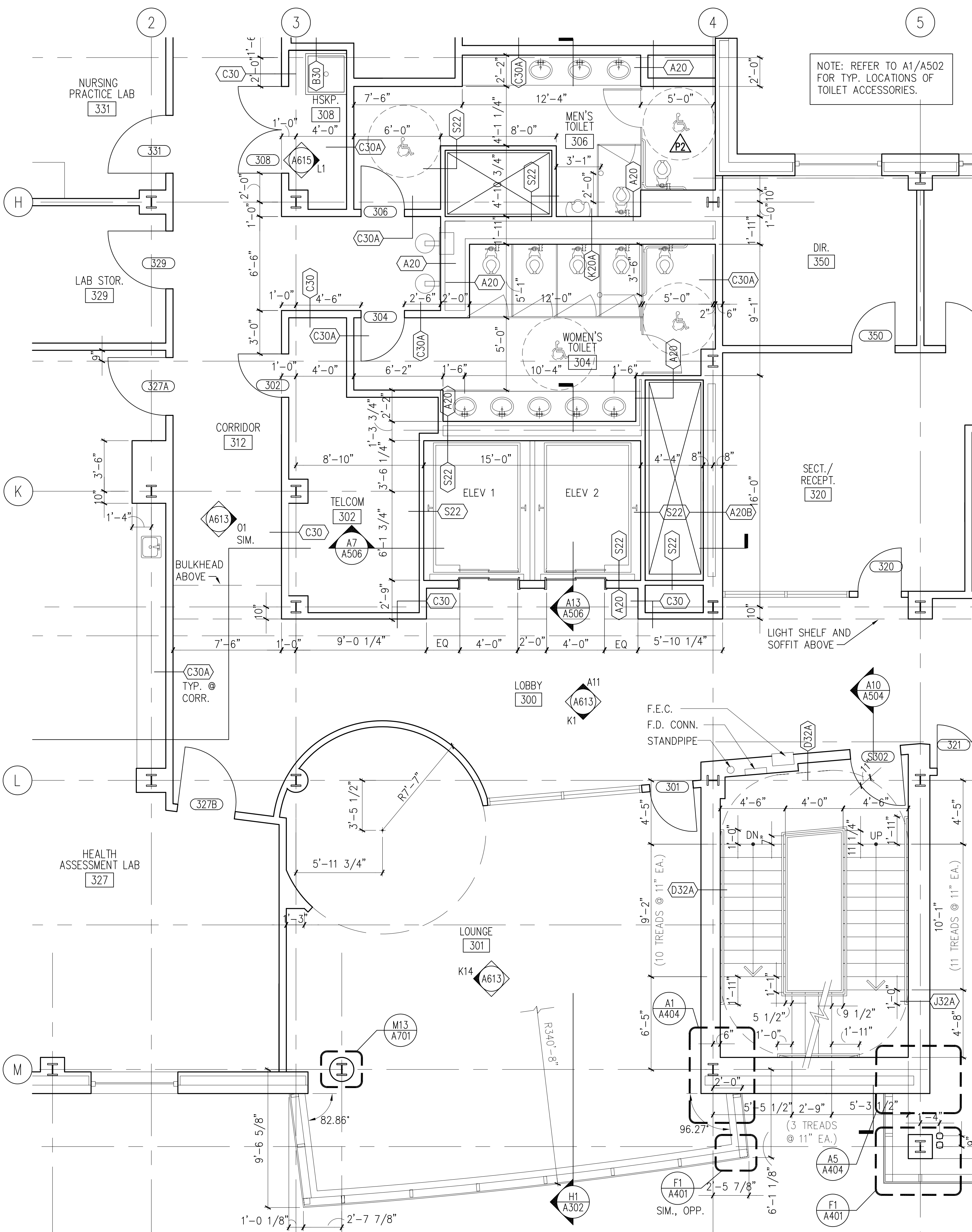
N1 R/F ROOM PLAN 3/16" = 1'-0" A104  
 N4 DRESSING RM. PLAN 1/4"=1'-0" A104  
 N7 SHOWER ROOM DETAIL 1/2"=1'-0" N11/A502  
 N11 LOCKER/SHOWER RMS. PLAN 1/4"=1'-0" A102

**TOILET ACCESSORY SCHED.**

1	TBA NUMBER IN THE TOILET ACCESSORY SCHEDULE IN THE SPECIFICATIONS
2	MIRROR UNIT
3	PAPER TOWEL DISPENSER
4	SOAP DISPENSER
5	SANITARY NAPKIN VENDOR
6	WALL MOUNTED SANITARY NAPKIN DISPOSAL UNIT
7	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL UNIT
8	TOILET TISSUE DISPENSER
9	SHELF
10	MOP AND BROOM HOLDER
11	WASTE RECEPTACLE
12	GRAB BAR
13	SHOWER ROD
14	SEAT COVER DISPENSER
15	FOLDING SHOWER SEAT
16	ROBE HOOK
17	TOWEL BAR
18	SPECIMEN PASS-THROUGH WINDOW
19	GLOVE DISPENSER
20	GLOVE DISPENSER



A1 CORE PLAN @ FOURTH FLOOR: LOBBY AND STAIR NO. 2 1/4"=1'-0"



A9 CORE PLAN @ THIRD FLOOR: LOBBY AND STAIR NO. 2 1/4"=1'-0"

**KEYED NOTES**

- MAIN X-RAY LINE IN RECESSED ENCLOSURE. HORIZONTAL CENTER TO BE 5'-0" AFF.
- 10" X 10" RACEWAY COVER FOR TUBE STAND. BOTTOM ELEVATION TO BE 8'-4" AFF. ALSO PROVIDE 10" X 10" RACEWAY COVER FOR EQUIPMENT CABINET. BOTTOM ELEVATION TO BE 5'-0" AFF.
- 12" X 12" X 3 1/2 CAST JUNCTION BOX
- 1/32" THICK LEAD SHEETING UNDER VINYL FLOOR.
- 6" X 6" X 3 1/2" RECESSED JUNCTION BOX. BOTTOM ELEVATION AS NOTED.
- SHUNT TRIP OPERATOR IN RECESSED BOX. HORIZONTAL CENTER TO BE 5'-0" AFF.
- X-RAY LOAD CENTER IN RECESSED BOX. HORIZONTAL CENTER TO BE 5'-0" AFF.

**GENERAL NOTES**

- REFER TO DWG. A002 PARTITION TYPES. A. ALL PARTITIONS SHALL BE TYPE B30A U.N.O. B. WALLS BETWEEN FACULTY OFFICES SHALL BE TYPE B30AB, U.N.O. C. ALL PARTITIONS AT INTERIOR FACE OF EXTERIOR WALLS SHALL BE TYPE A20, U.N.O.
- REFER TO ENLARGED PLANS FOR PARTITION TYPES AND DIMENSIONS WITHIN ENLARGED PLAN AREAS.
- REFER TO A800 SERIES DWGS. FOR REFLECTED CEILING PLANS.
- REFER TO DWG. A900 FOR DOOR SCHEDULE. REFER TO DWG. A902 FOR TYP. DIM. FOR LOCATION OF DOORS AND DOOR RECESSES.
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- CENTER PARTITIONS ON CENTERLINE OF COLUMN LINE OR PIER, UNLESS OTHERWISE INDICATED.
- PROVIDE 2 HR FIRE RATED FIREPROOFING FOR SUPPORTING STRUCTURE OF STAIRS, ELEVATOR AND MECHANICAL SHAFTS. REFER TO LS104, LS105, AND LS106 FOR EXTENT OF FIREPROOFING.

**REVISIONS**

NO.	REVISIONS/SUBMISSIONS	DATE

**APPROVALS**

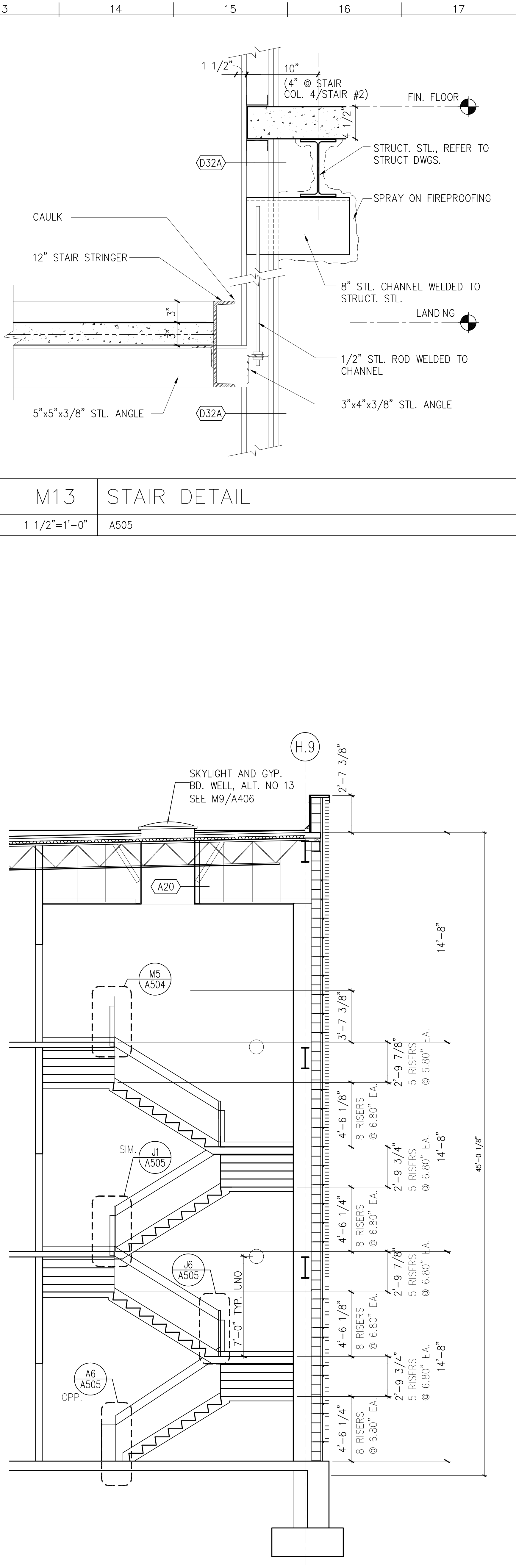
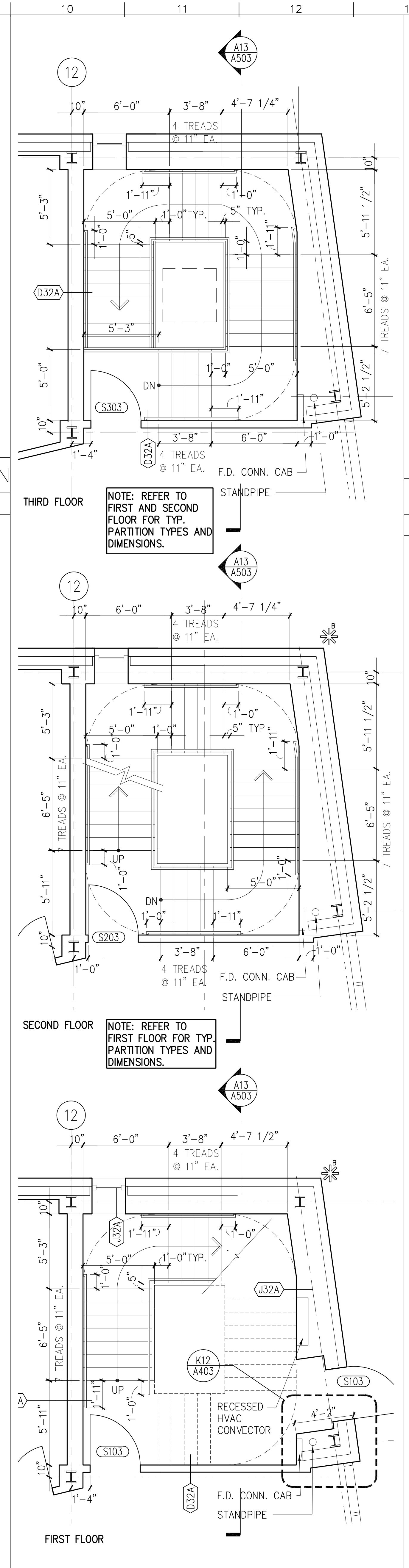
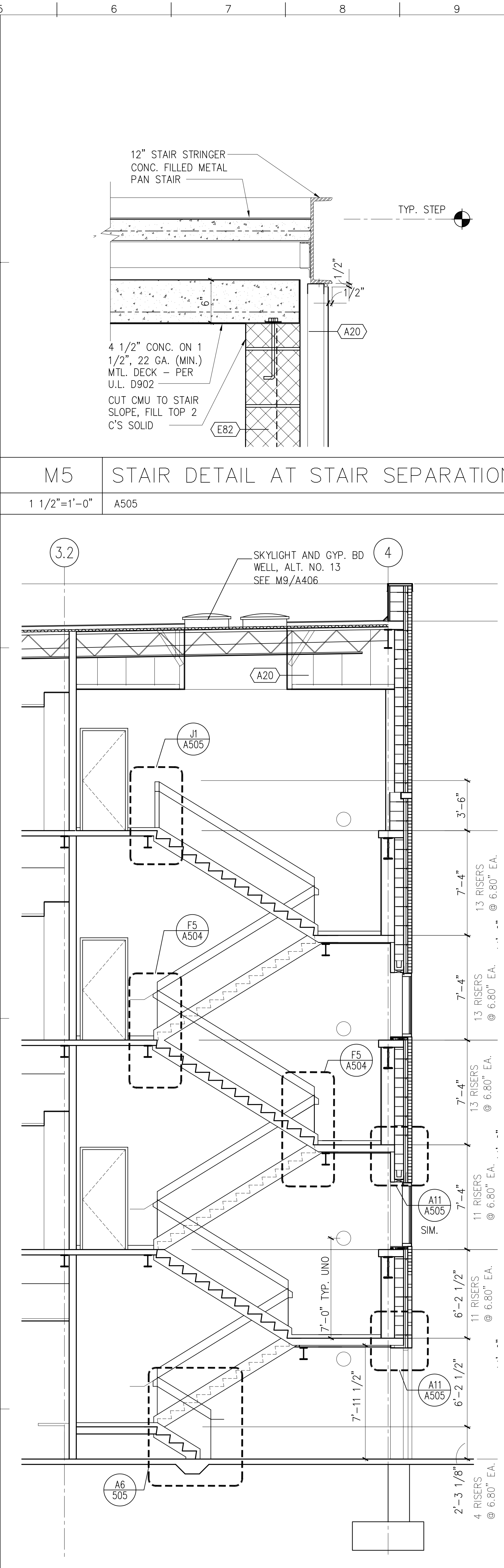
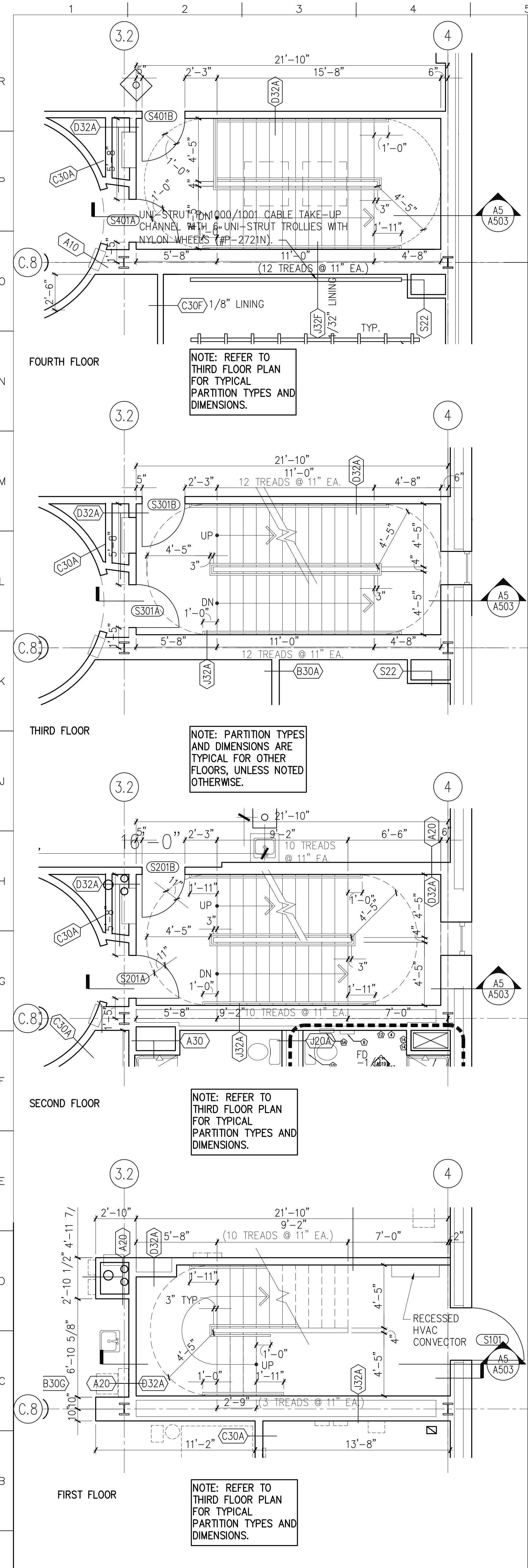
PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A502**  
 SHEET X OF XX

**HEALTH SCIENCES BUILDING**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Core Plans**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL

MONTGOMERY COLLEGE  
 APPROVAL



- GENERAL NOTES**
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**A1 STAIR #1 - PLANS**  
1/4"=1'-0"

**A5 STAIR #1 - SECTION**  
1/4"=1'-0"

**A10 STAIR #3 - PLANS**  
1/4"=1'-0"

**A13 STAIR #3 - SECTION**  
1/4"=1'-0"

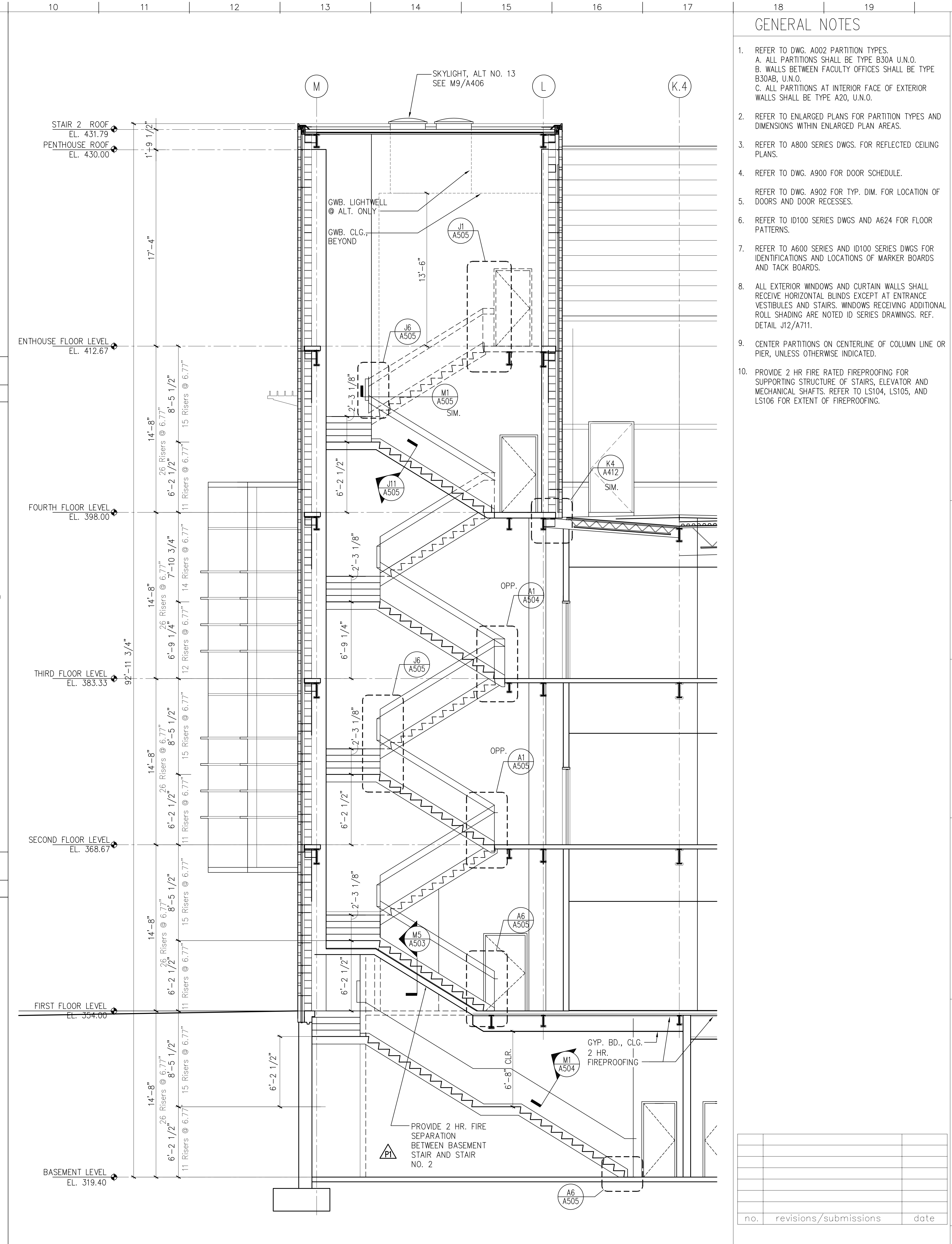
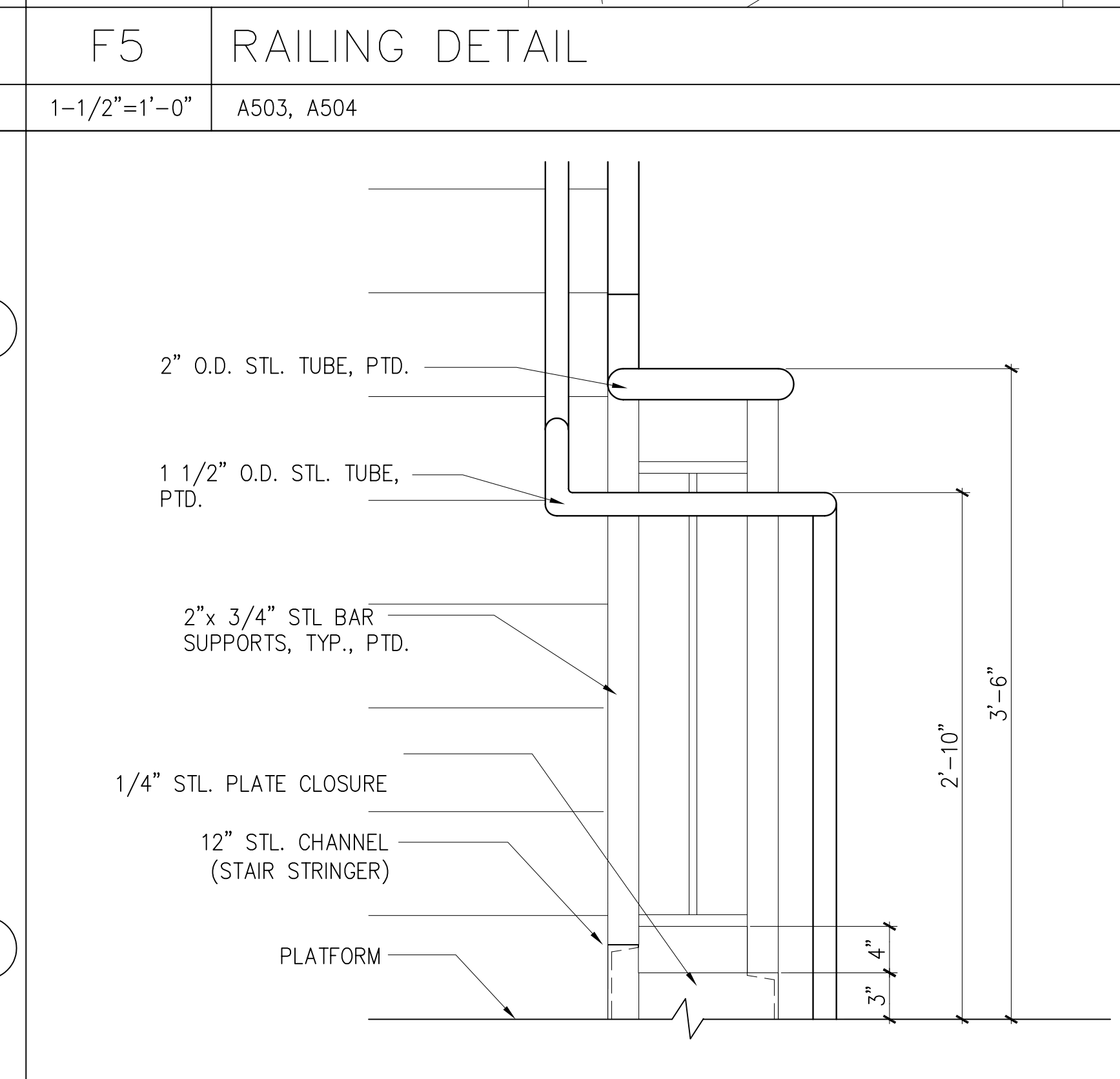
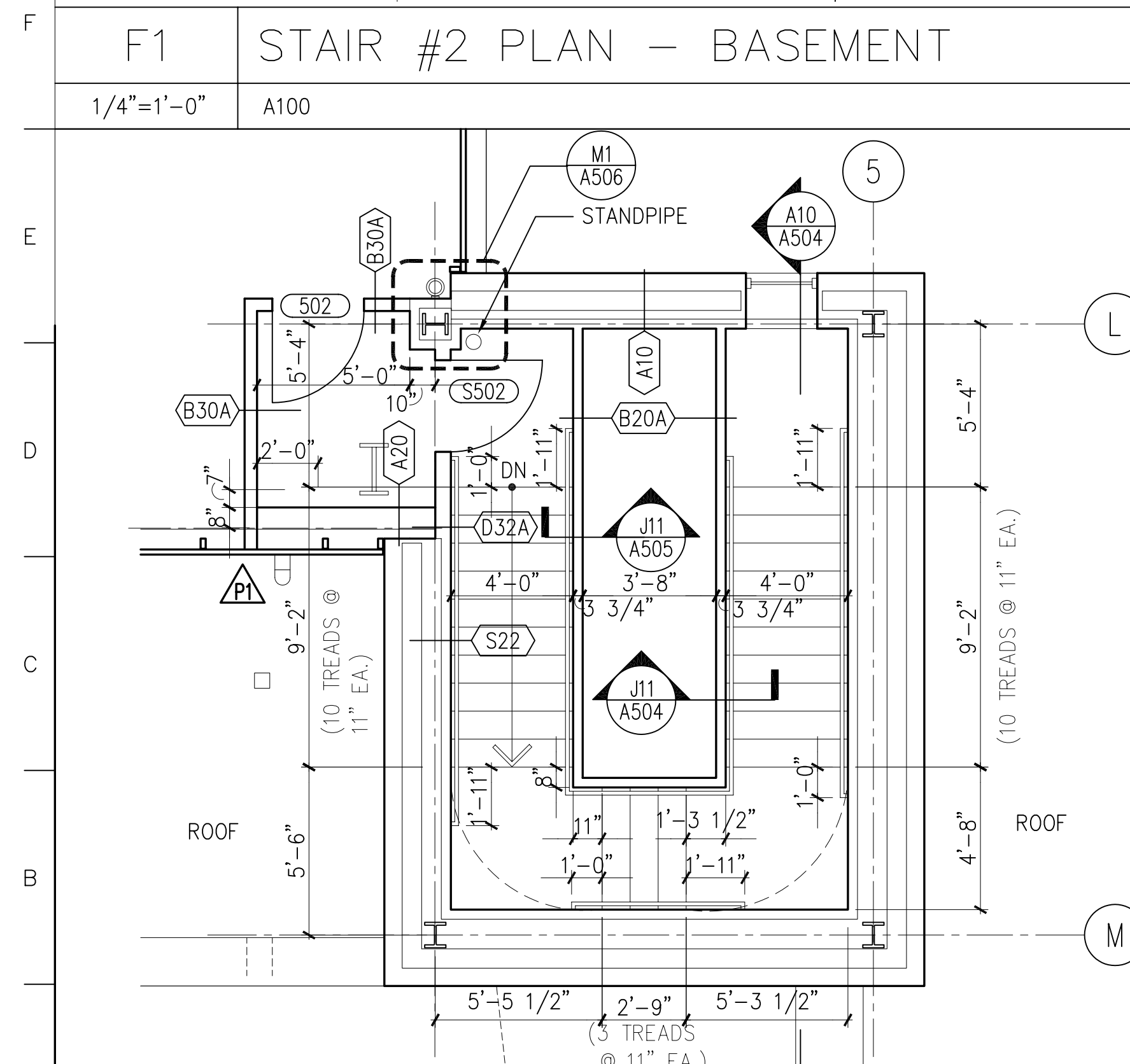
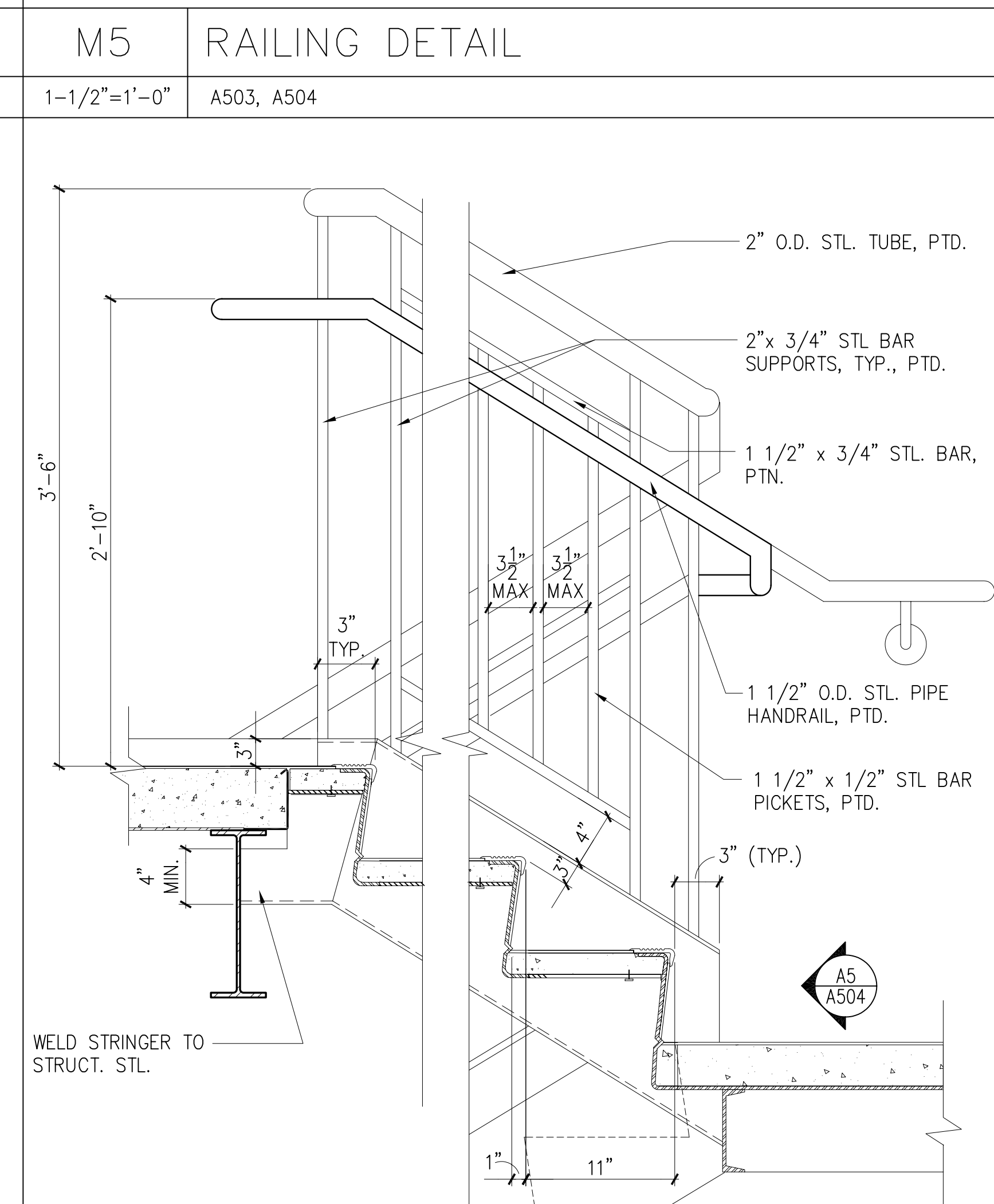
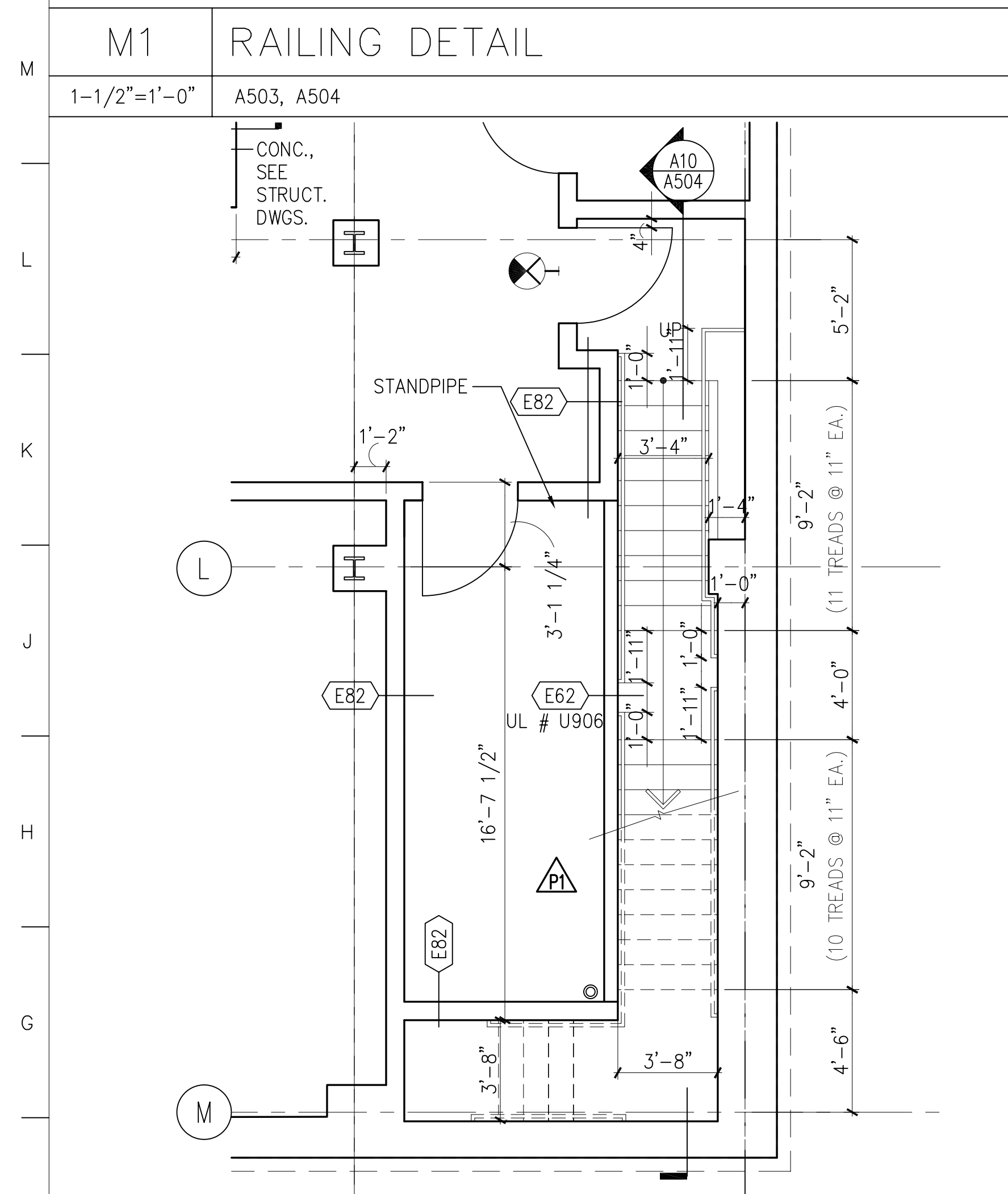
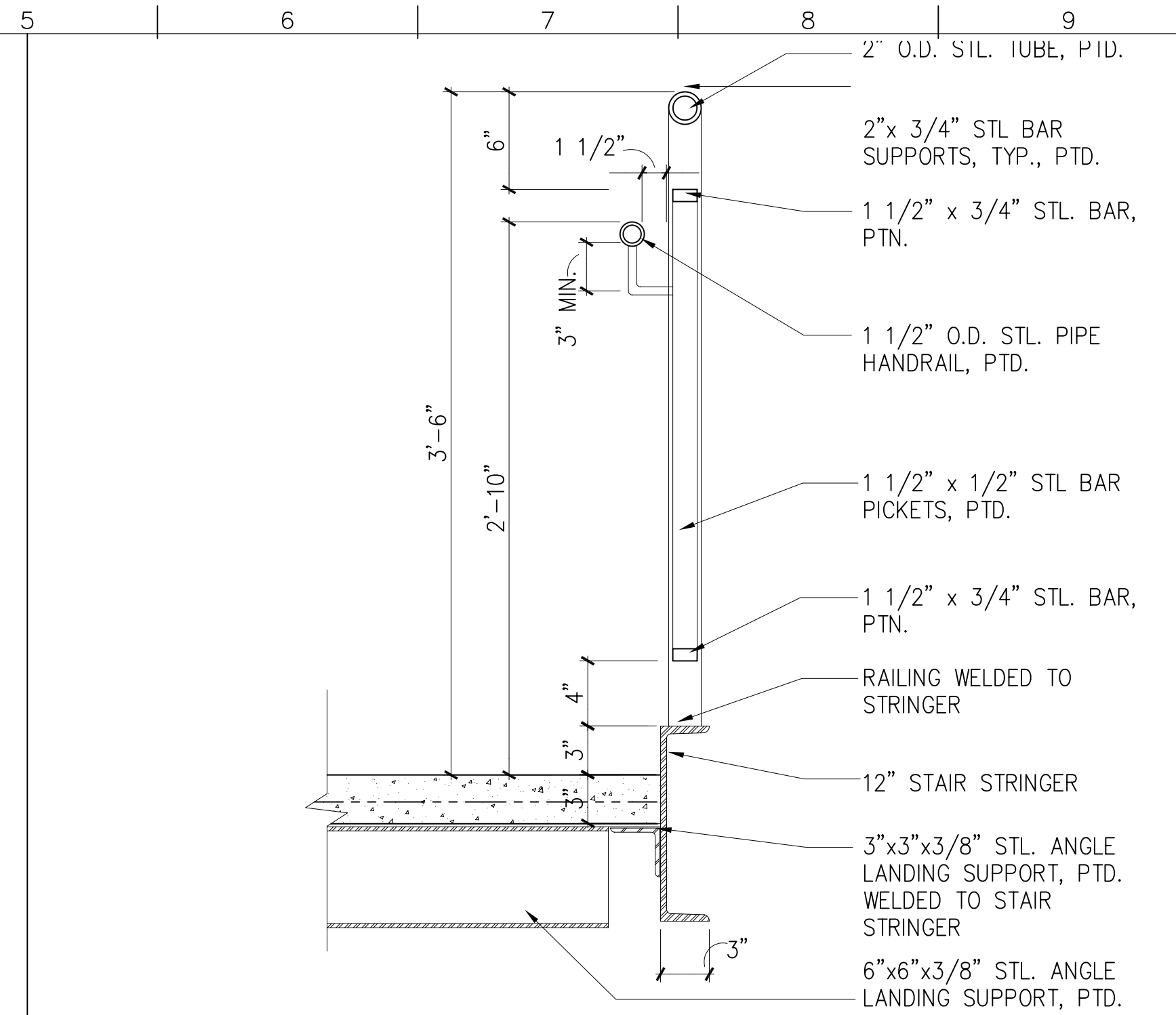
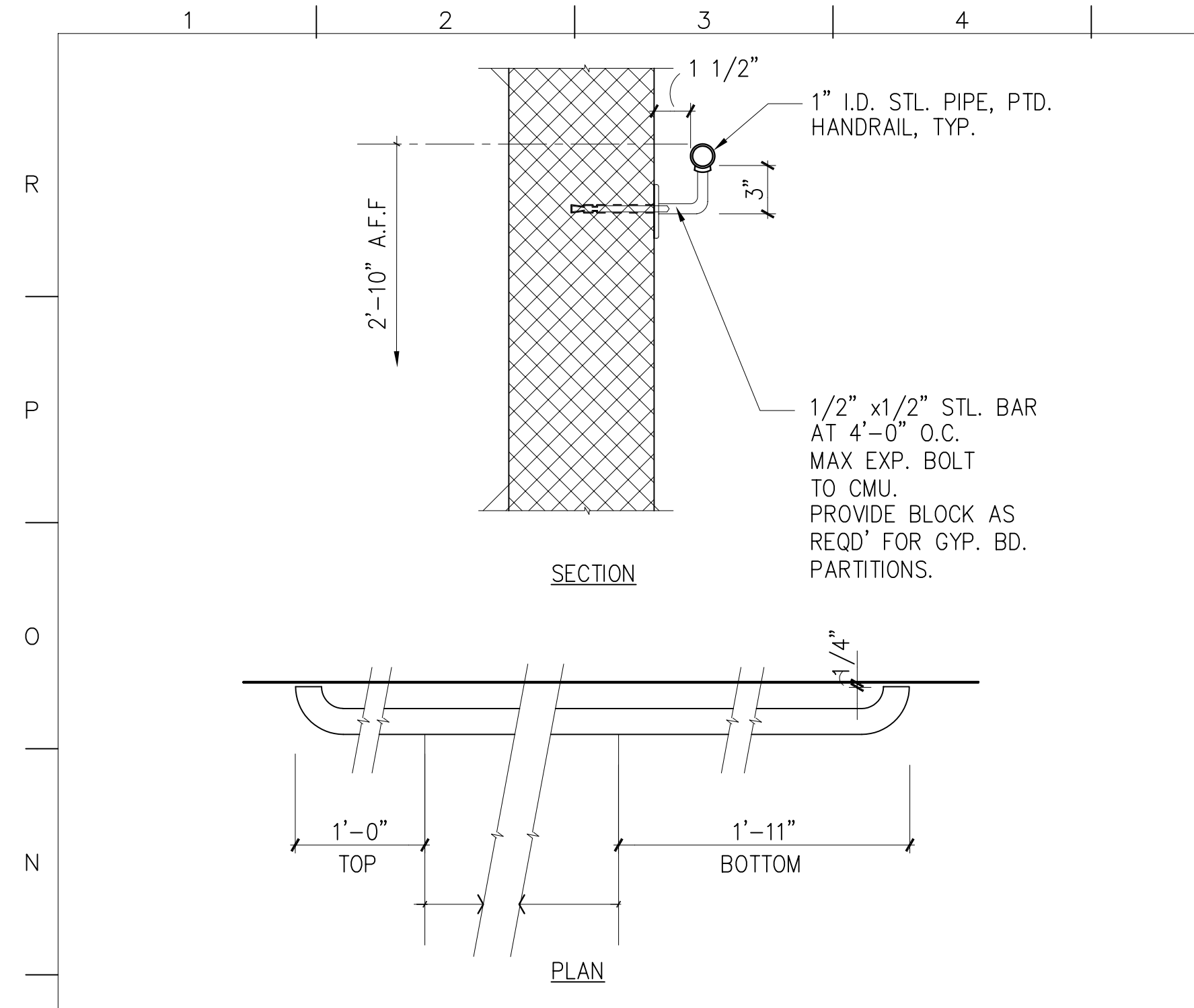
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DATE: 2/20/02  
**A503**  
SHEET NO. XX

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Stair #1 and #3  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL  
PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
APPROVAL  
DATE  
DATE  
TITLE



GENERAL NOTES

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no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A504**  
 SHEET 10 OF 22

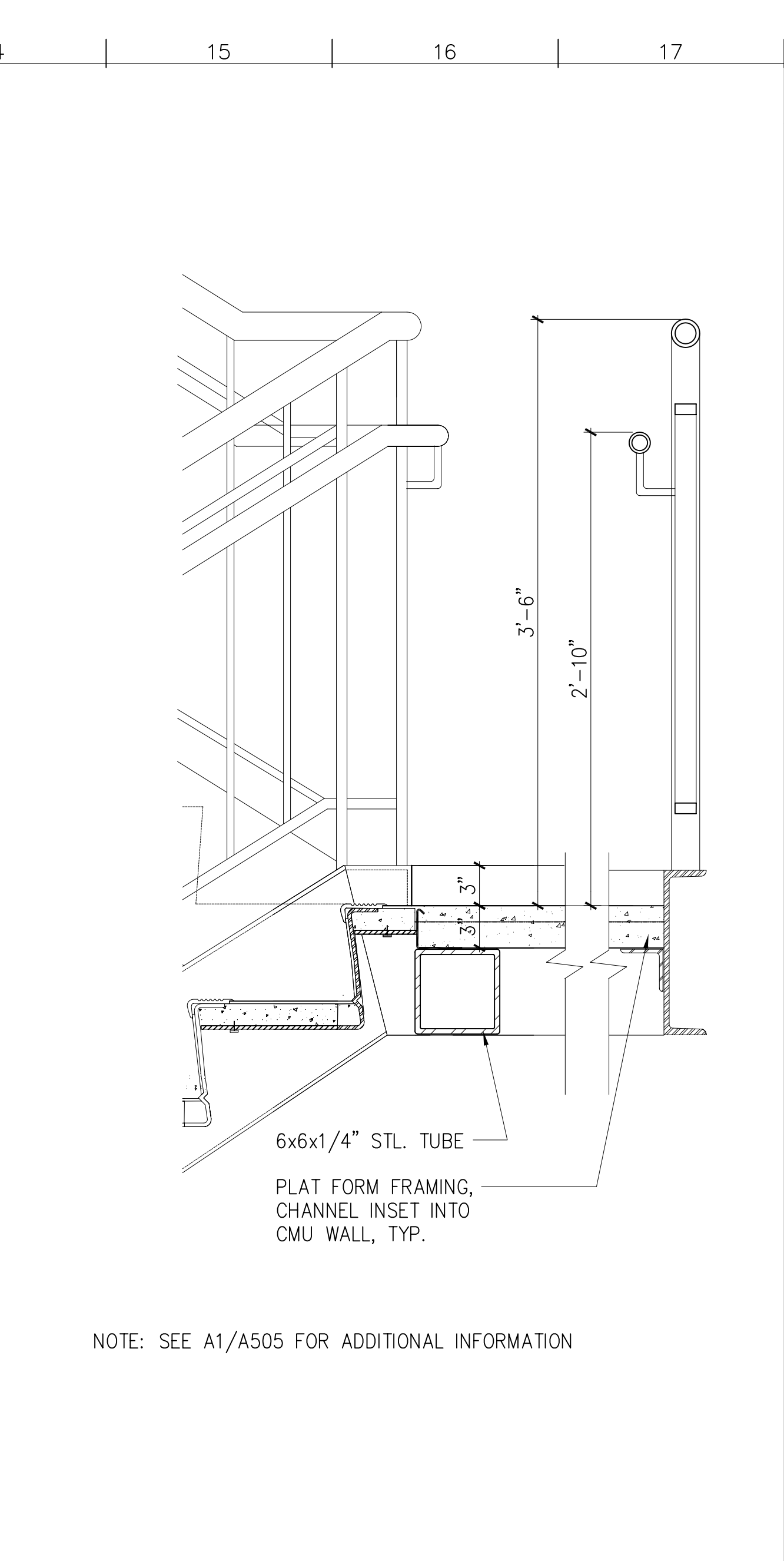
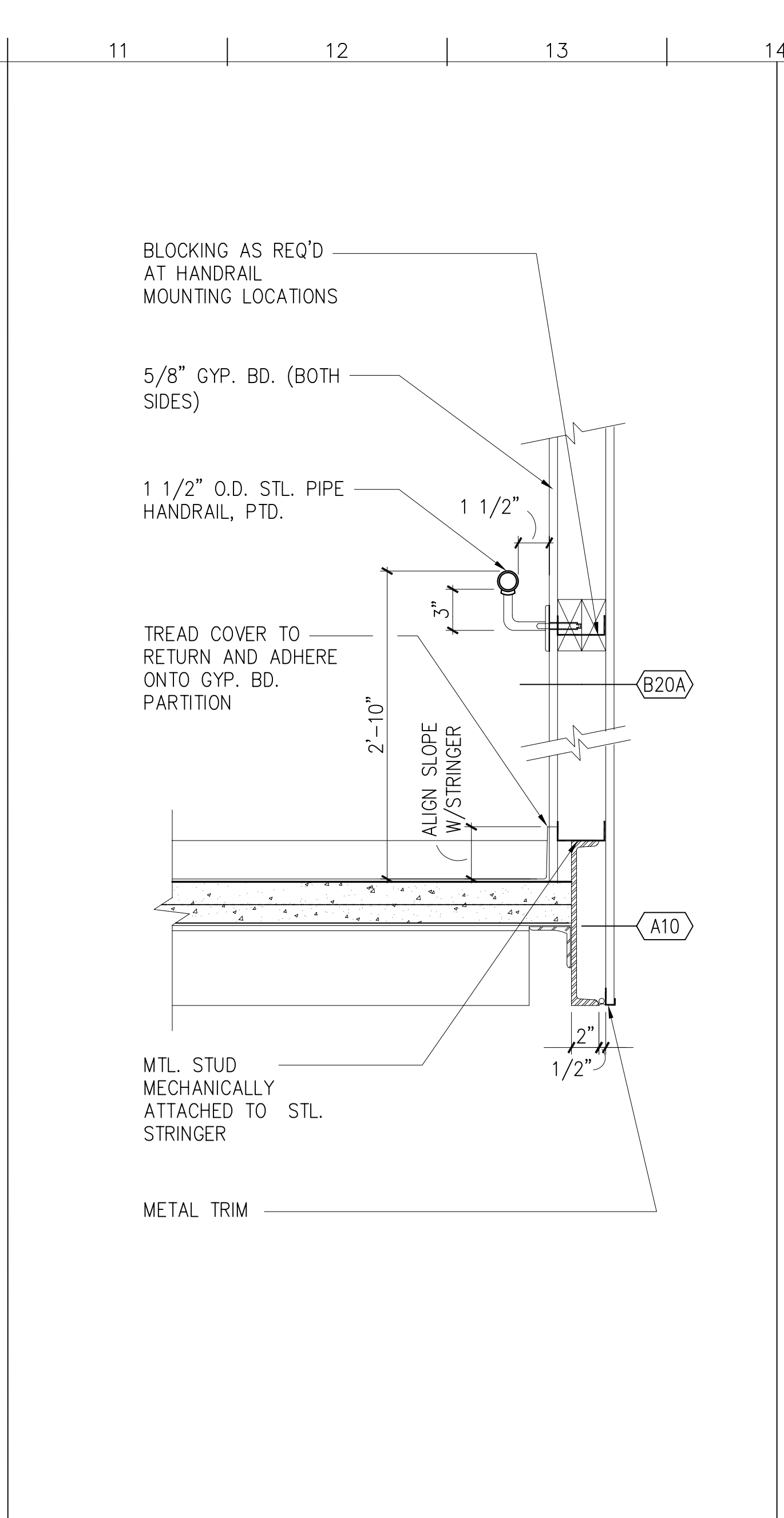
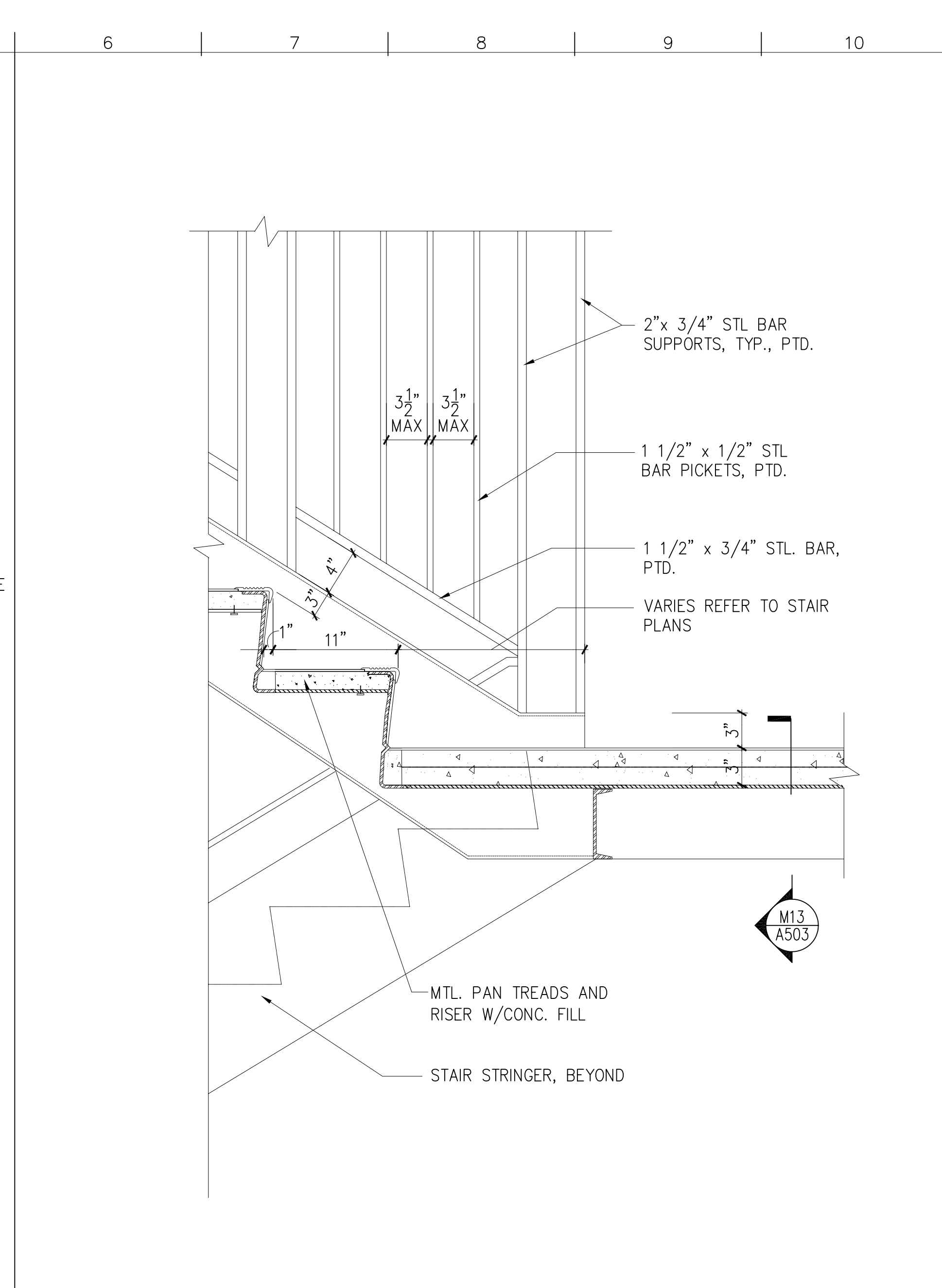
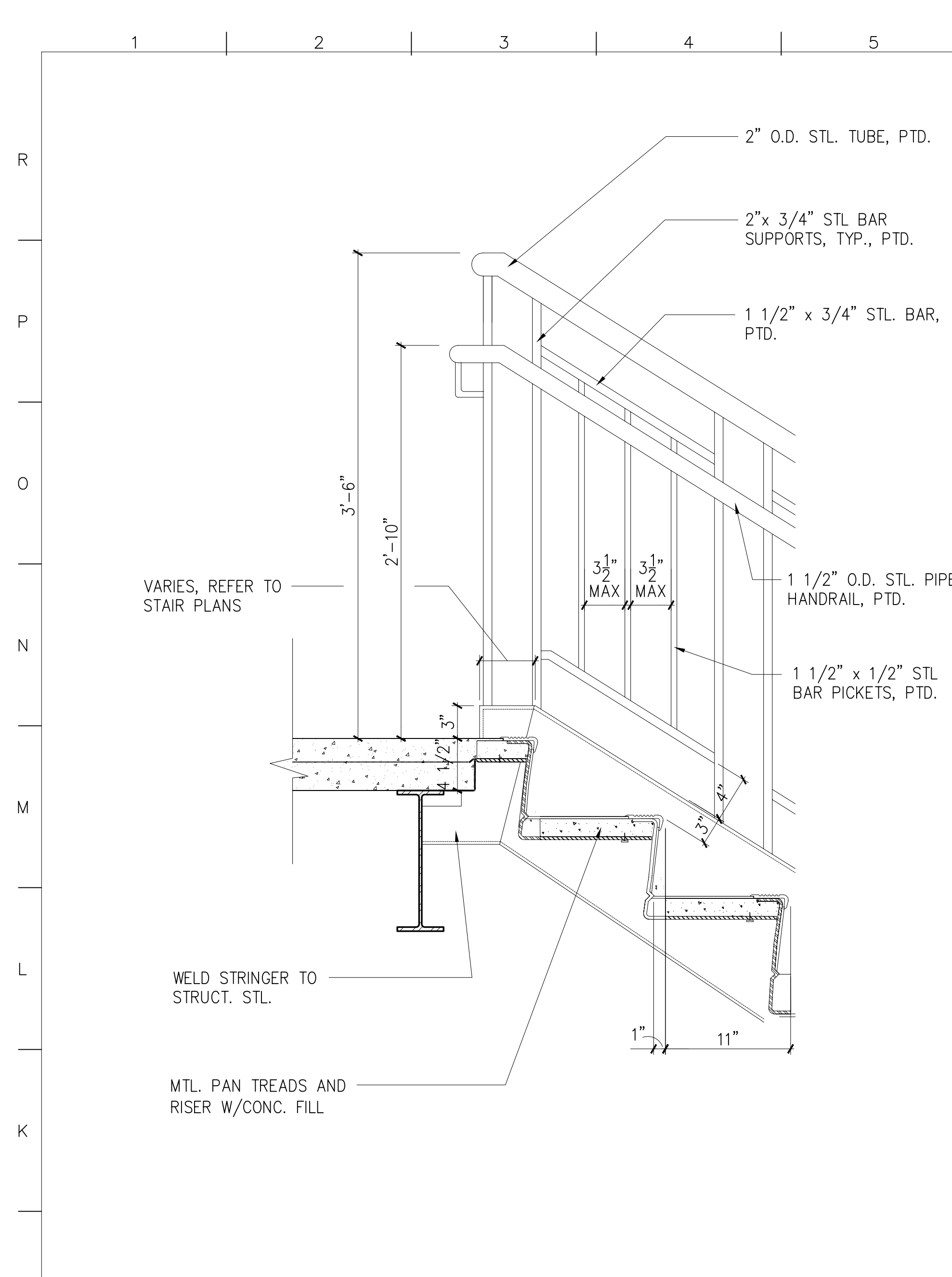
**Stair #2 And Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

MONTGOMERY COLLEGE APPROVAL  
 DATE

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**GENERAL NOTES**

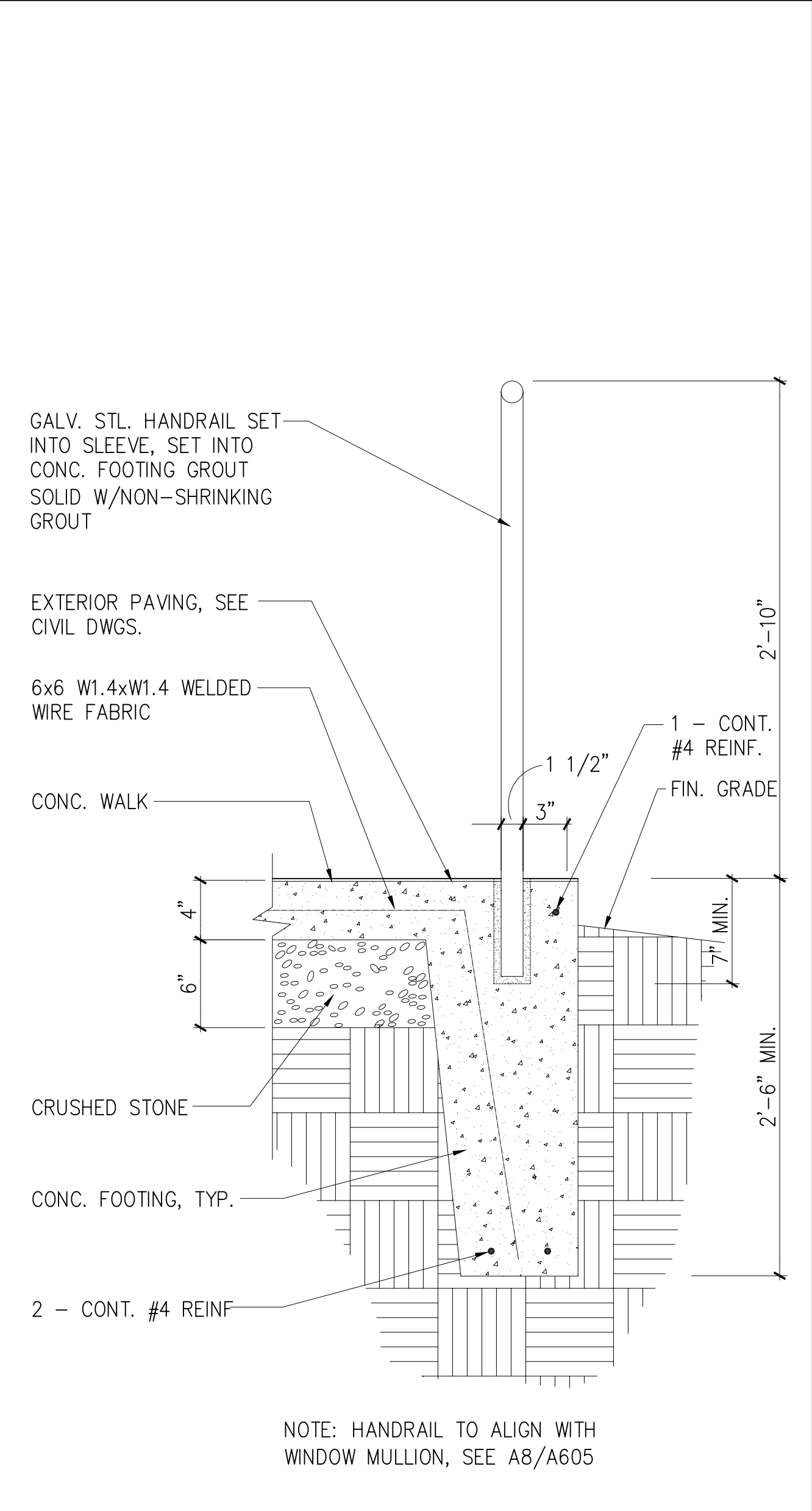
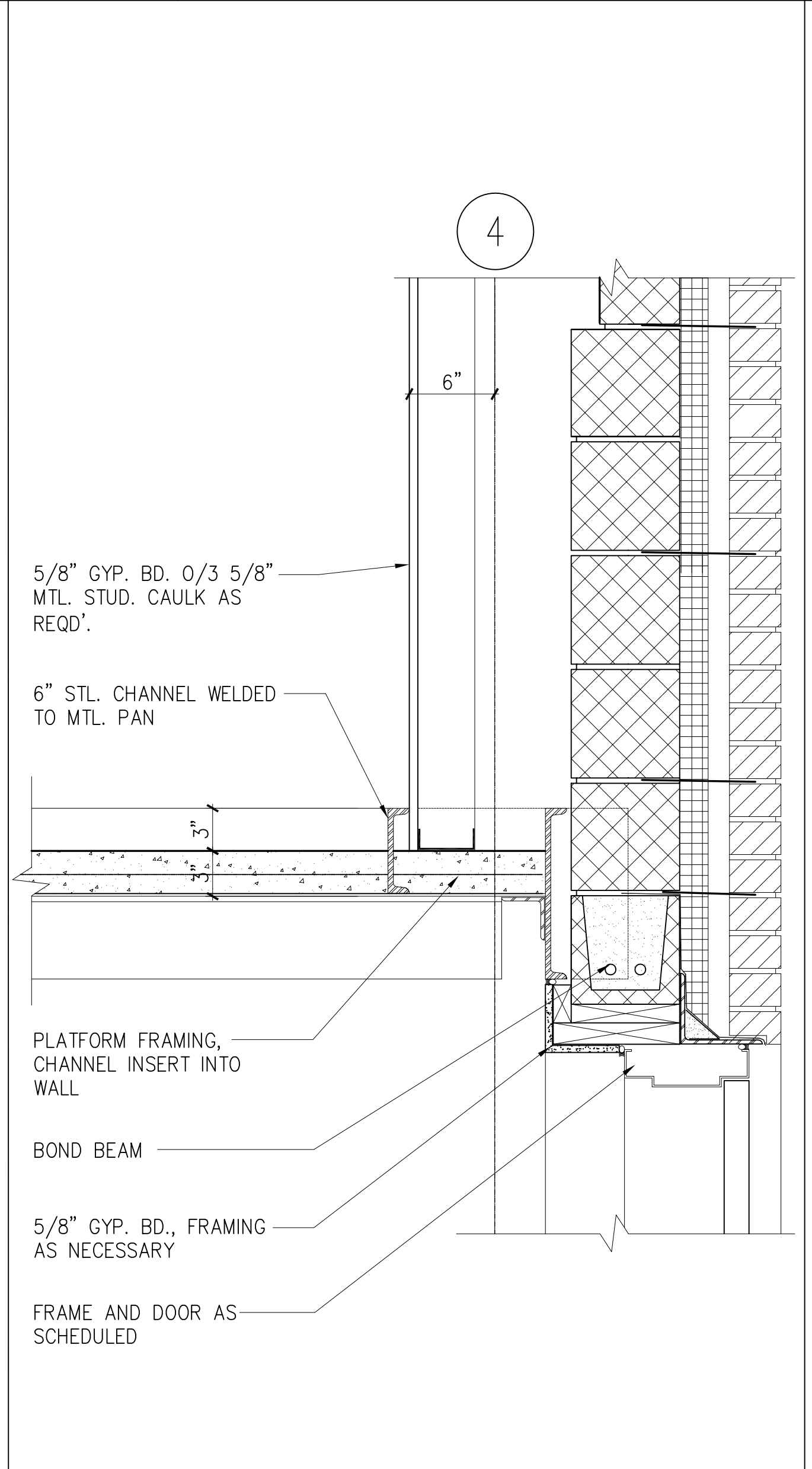
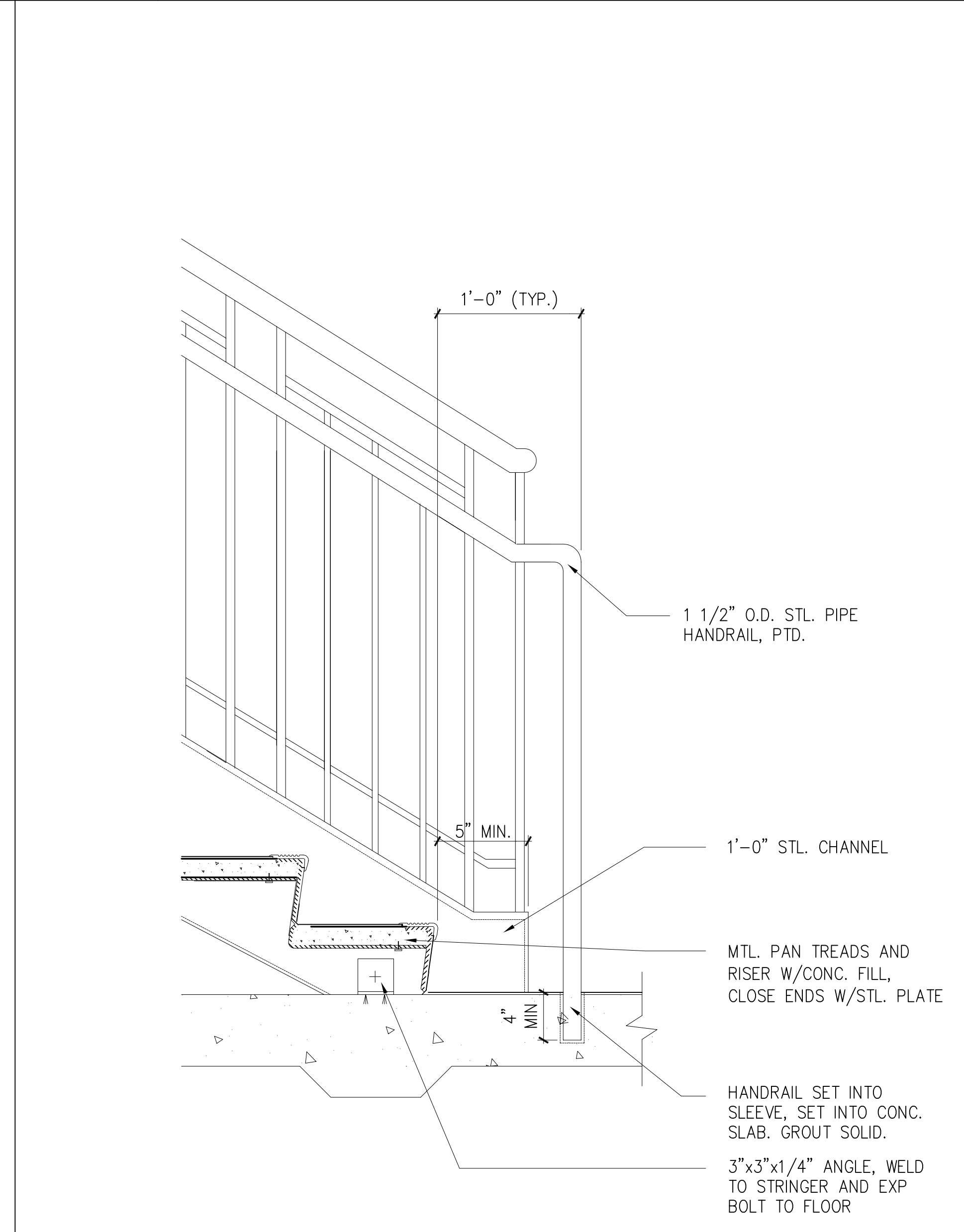
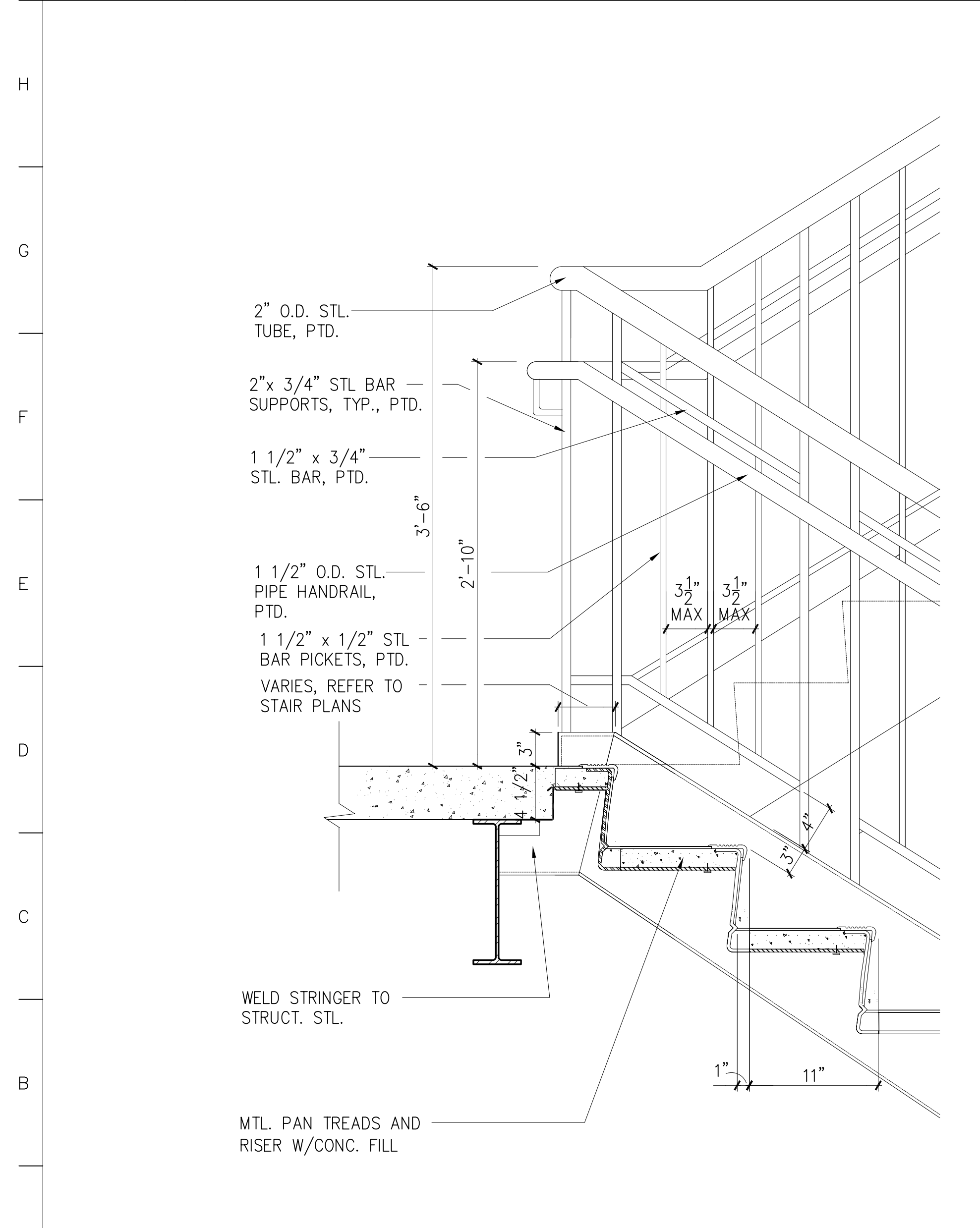
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**J1 STAIR DETAIL- TOP FLOOR**  
1-1/2"=1'-0" A503 A504

**J6 STAIR DETAIL- TYP. LANDING**  
1-1/2"=1'-0" A503 A504

**J11 STAIR DETAIL**  
1-1/2"=1'-0"

**J15 STAIR DETAIL**  
1-1/2"=1'-0"



**A1 STAIR DETAIL- TYP. FLOOR**  
1-1/2"=1'-0" A503 A504

**A6 STAIR DETAIL- GROUND**  
1-1/2"=1'-0" A503 A504

**A11 LANDING DETAIL**  
1-1/2"=1'-0" A503 A504

**A15 EXTERIOR HANDRAIL DETAIL**  
1-1/2"=1'-0" A503 A504

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A505**  
 SHEET X OF XX

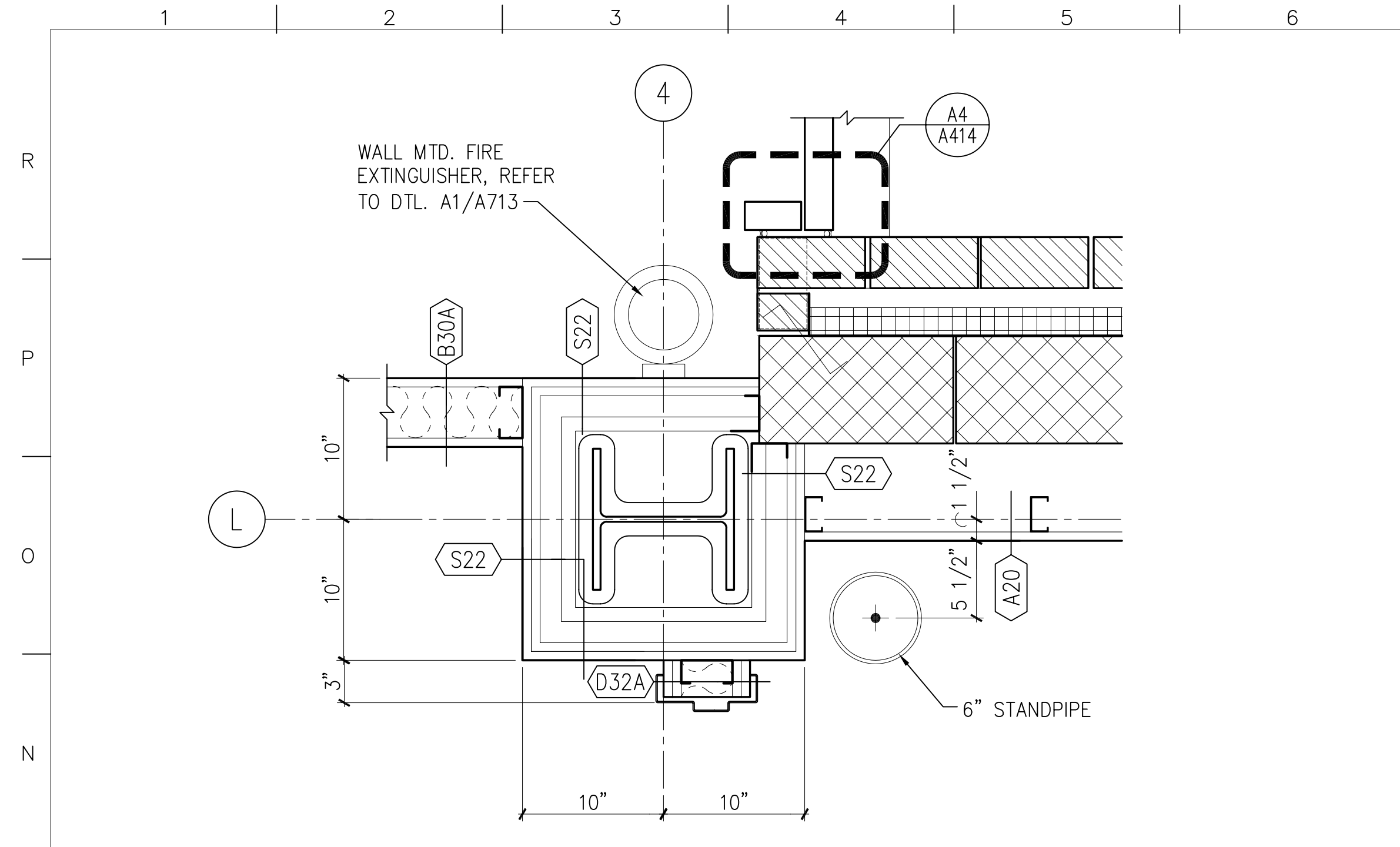
**Stair Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

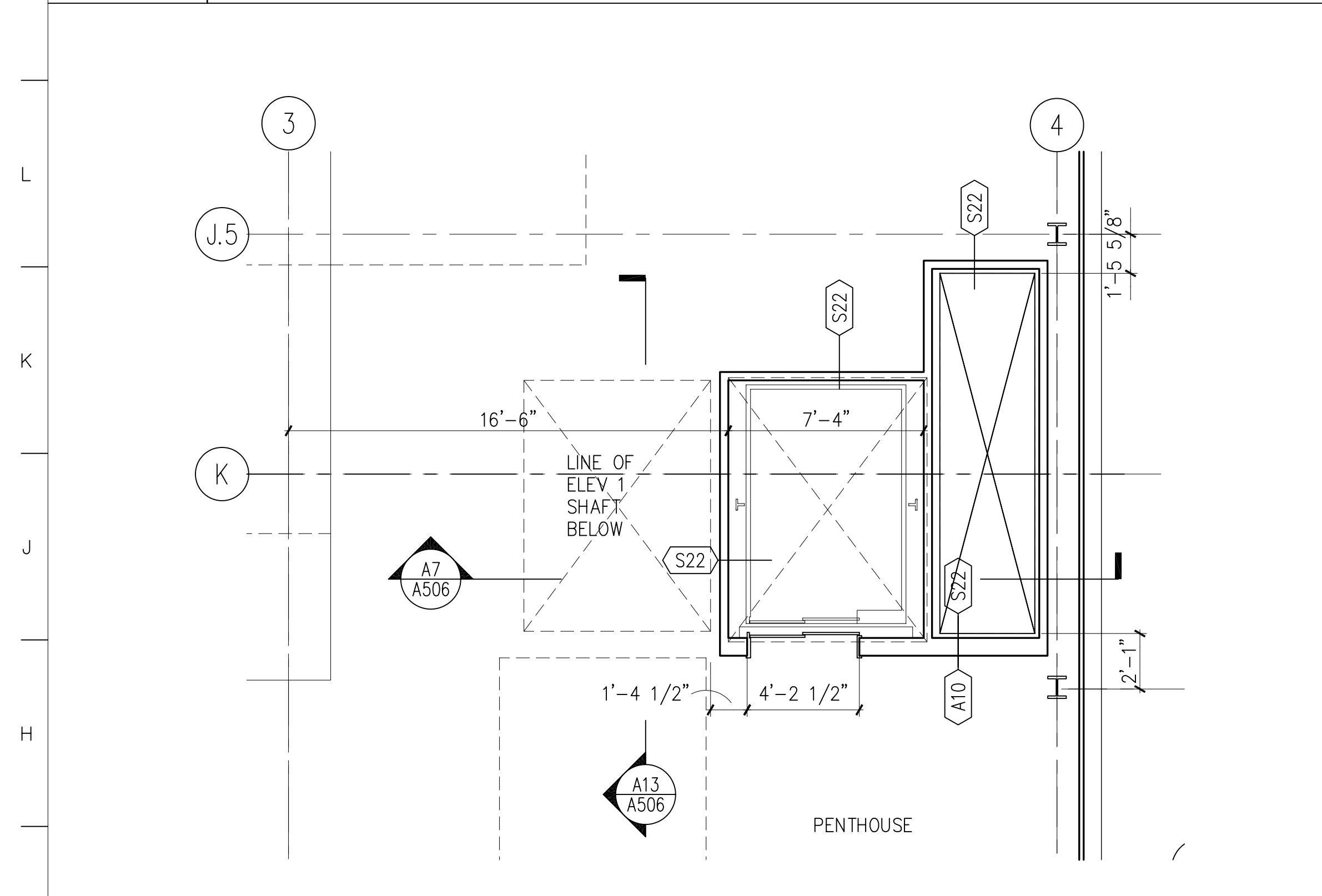
DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
 DATE

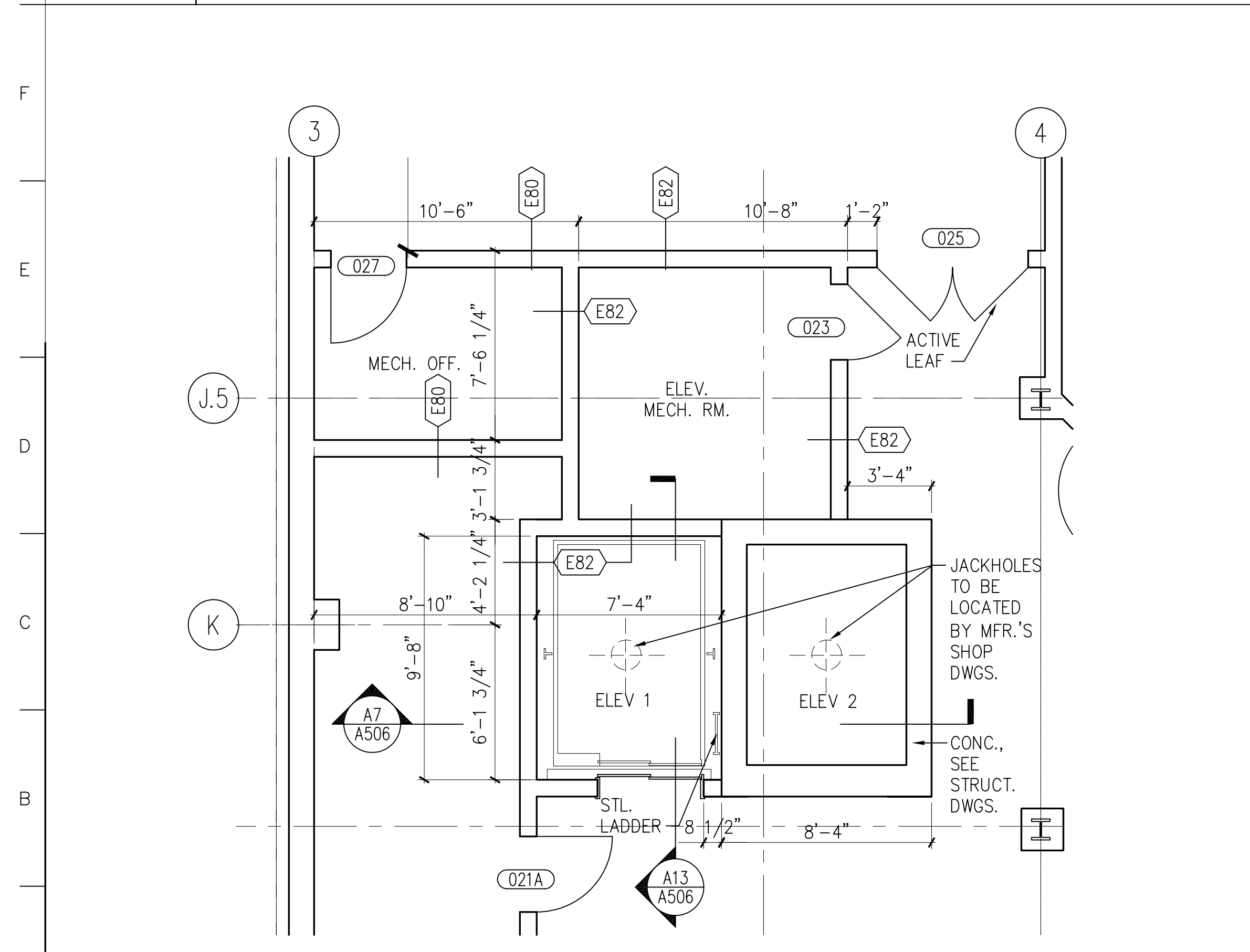
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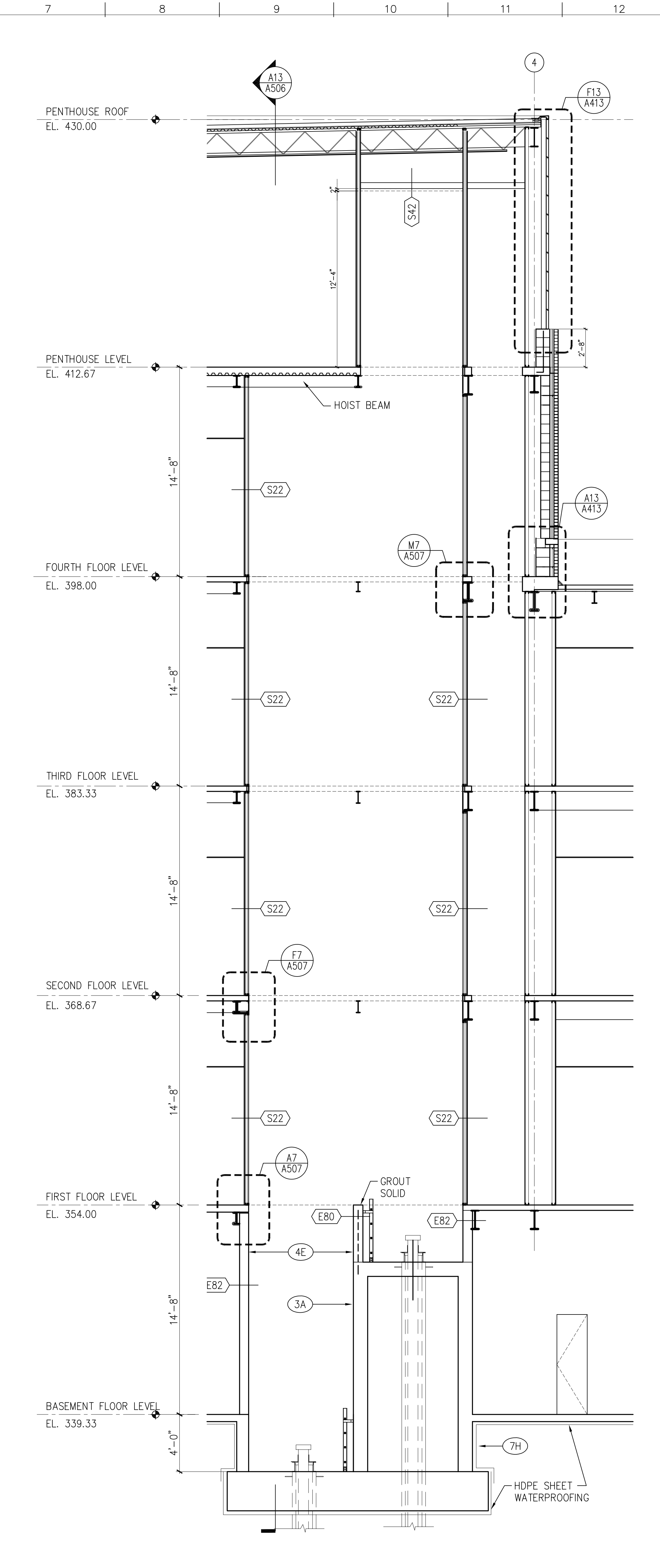
**M1** DETAIL AT PENTHOUSE VESTIBULE  
 1 1/2" = 1'-0" A1/A504



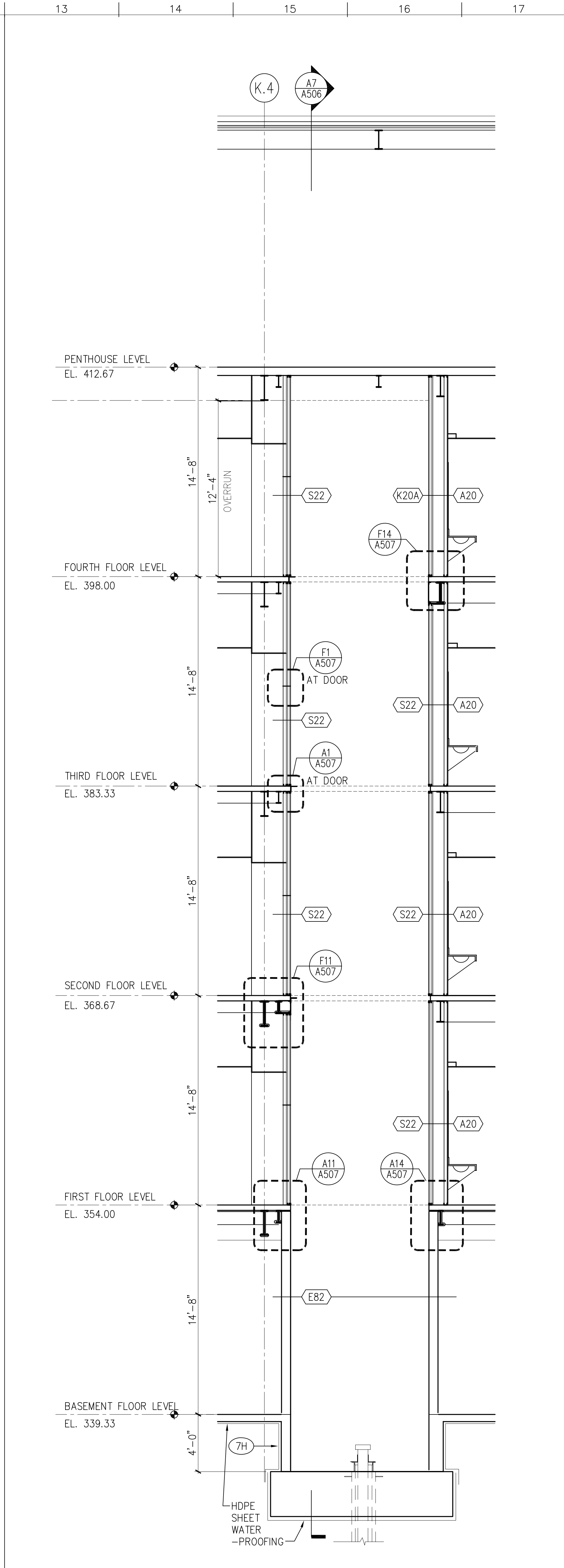
**G1** ELEVATOR PLAN - PENTHOUSE  
 1/4" = 1'-0" A105



**A1** ELEVATOR AND MACHINE ROOM PLAN - BASEMENT  
 1/4" = 1'-0" A100



**A7** ELEVATOR SECTION  
 1/4" = 1'-0" A301



**A13** ELEVATOR SECTION  
 1/4" = 1'-0" A302

**MATERIAL KEYED NOTES**

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM. MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM. REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9K) RESILIENT BASE
- (9L) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

no.	revisions/submissions	date

**Elevator and Details**

MONTGOMERY COLLEGE  
 Silver Spring, Maryland  
 Project # CC-01-MC-97/98-318

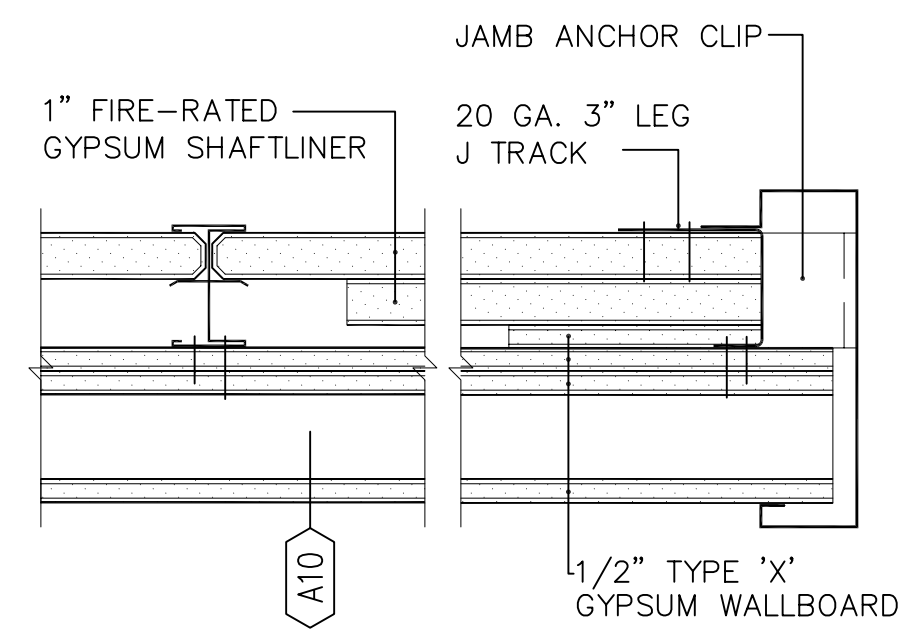
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A506**  
 SHEET XX OF XX

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

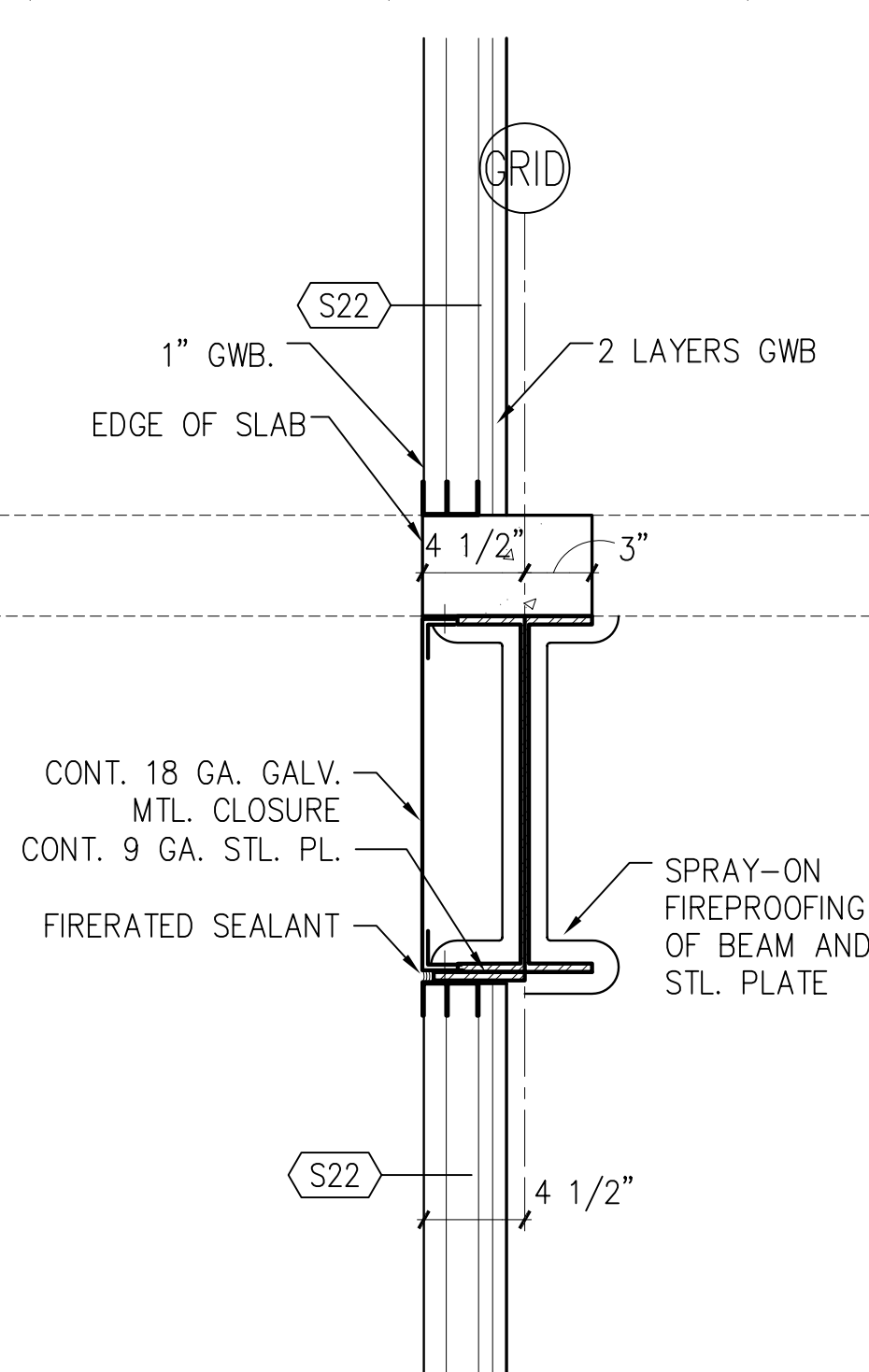
MONTGOMERY COLLEGE APPROVAL  
 DATE

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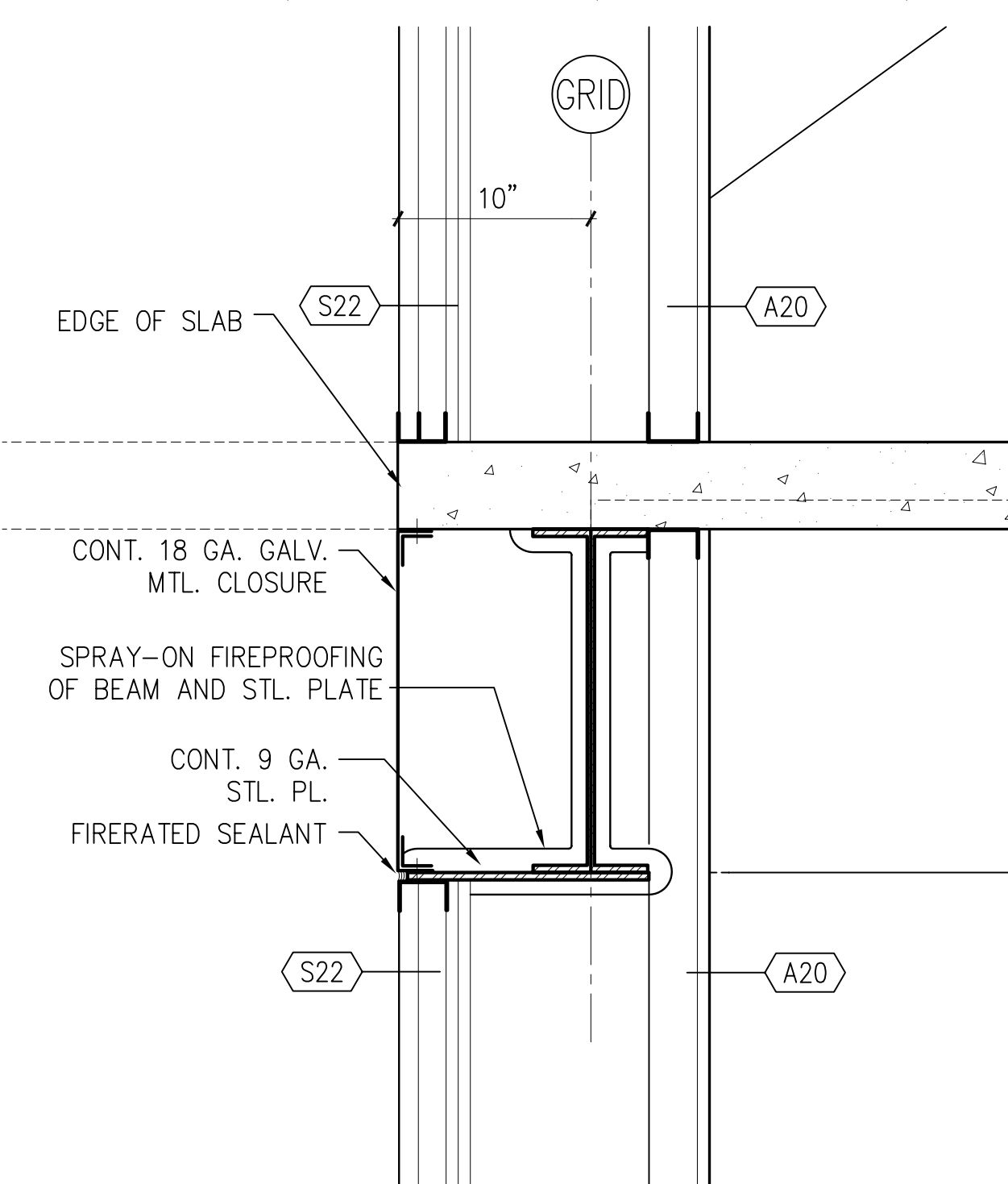
M1 ELEVATOR DOOR JAMB

3"=1'-0" A9/A501



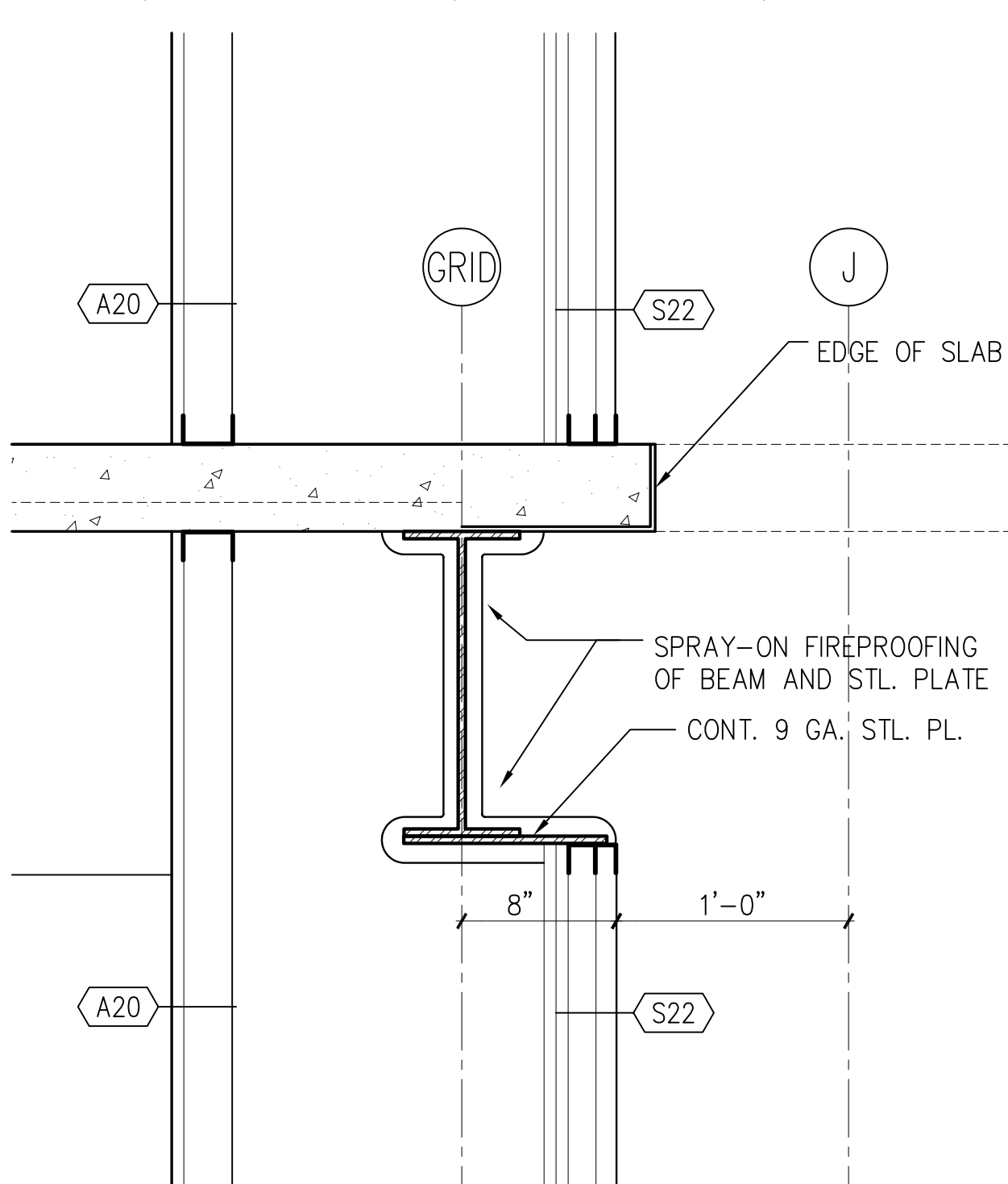
M7 ELEVATOR SHAFT DETAIL

1-1/2" = 1'-0" A7/A506



M11 PLUMBING CHASE DETAIL

1-1/2" = 1'-0" H1/A302

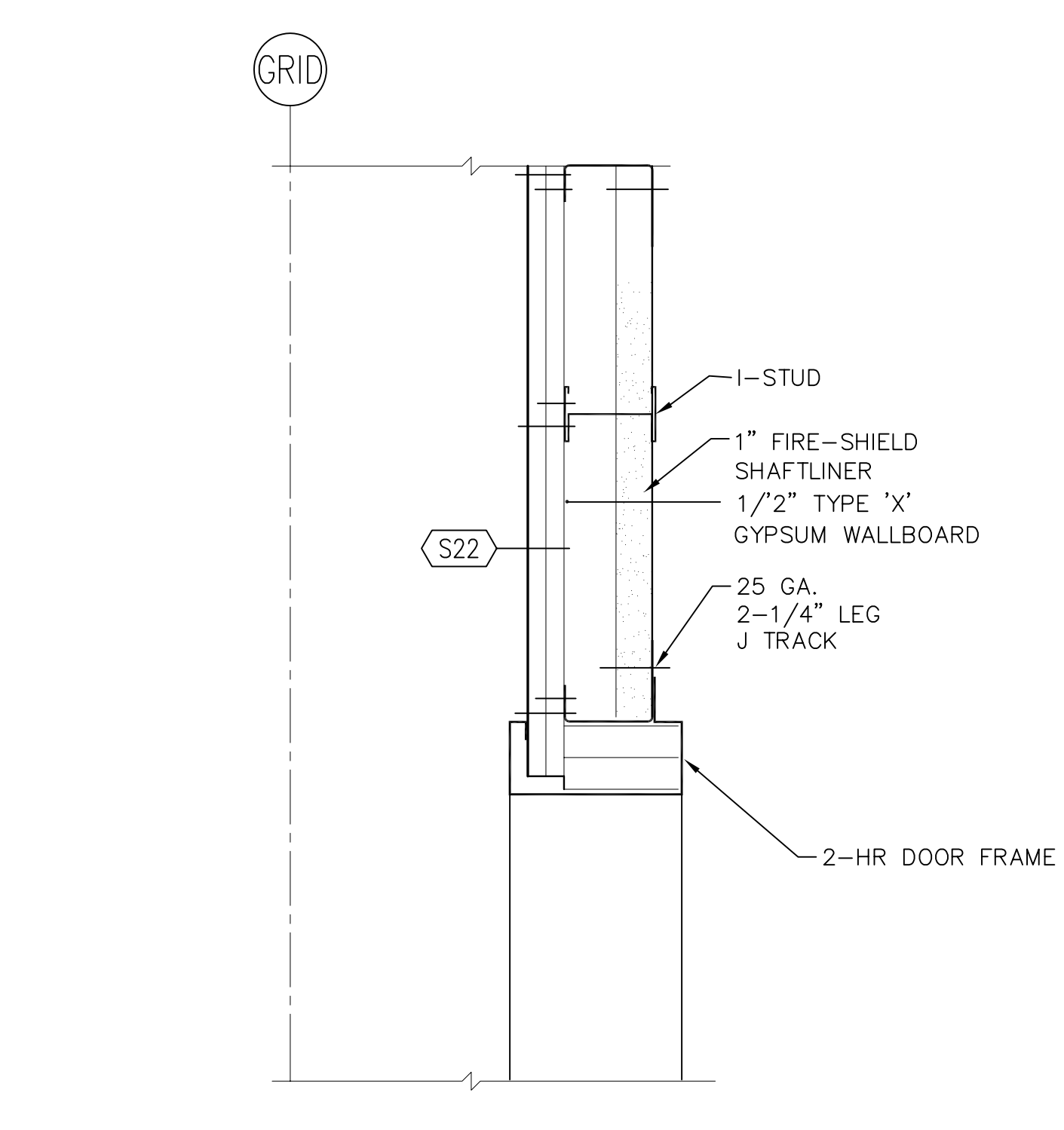


M14 DUCT SHAFT DETAIL

1-1/2" = 1'-0" H1/A302

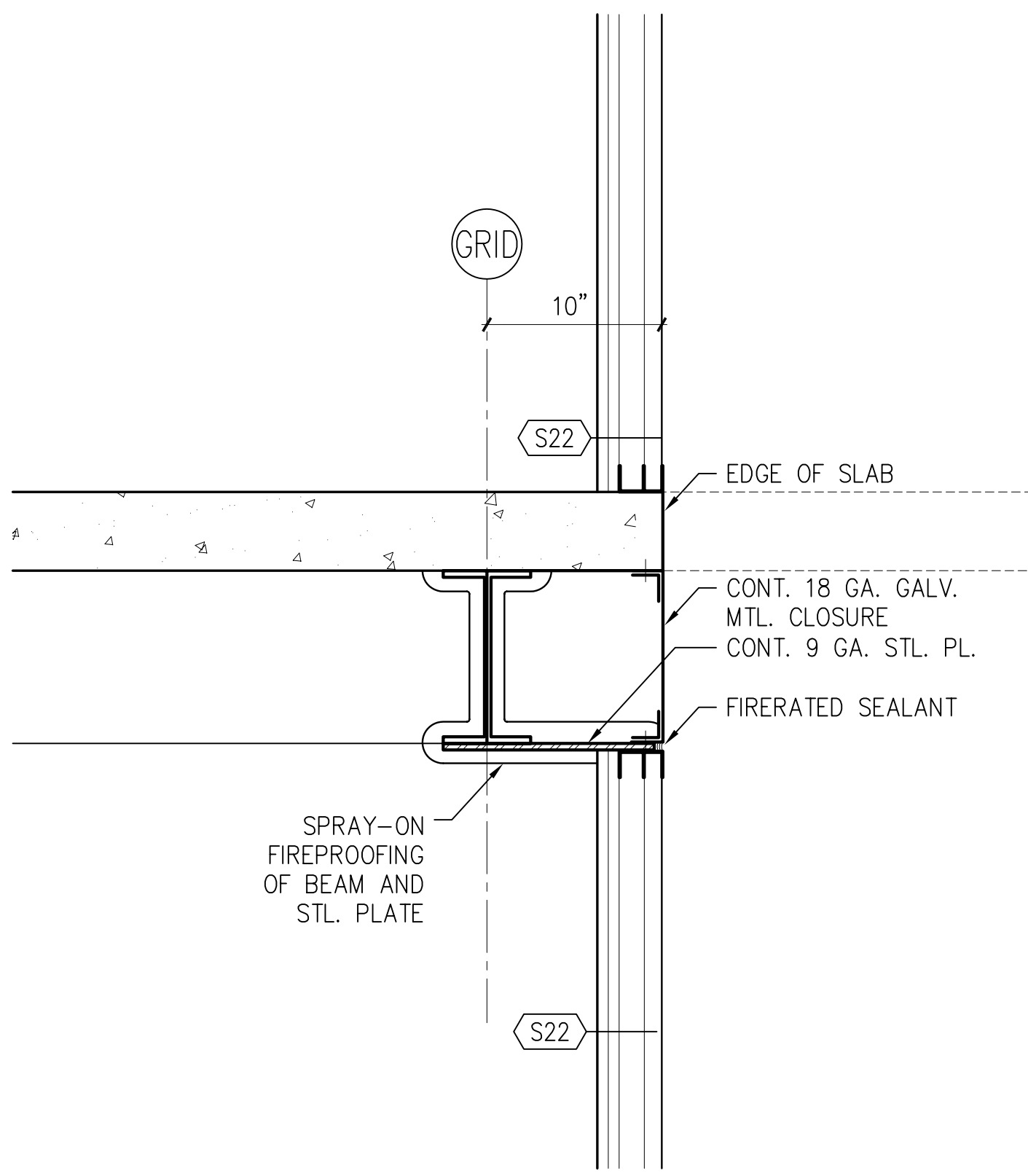
MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8L INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9K RESILIENT BASE
- 9L PAINT (Color-Ref. to Schedule)
- 9M EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.



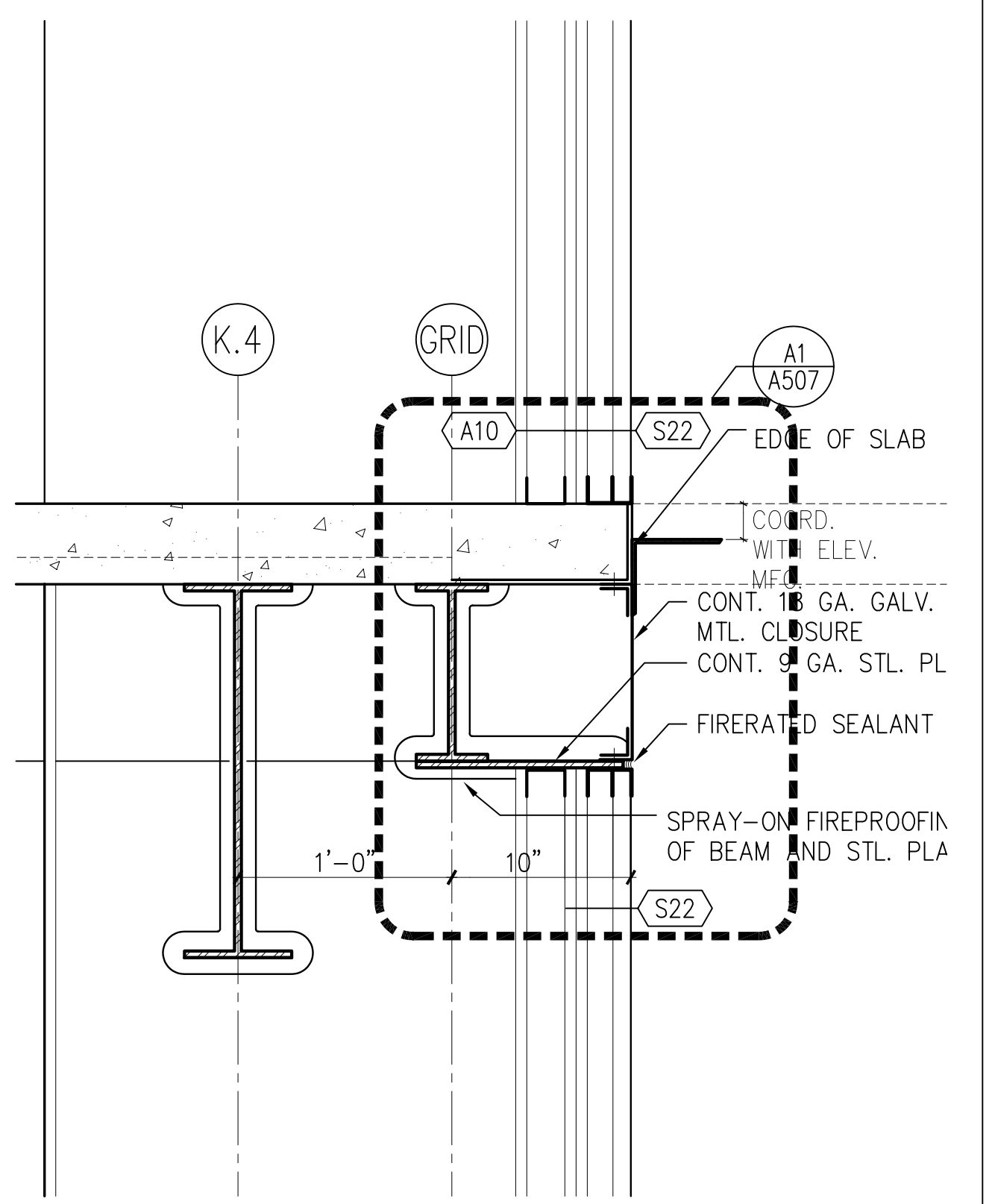
F1 ELEVATOR DOOR HEAD

3"=1'-0" A12/A506



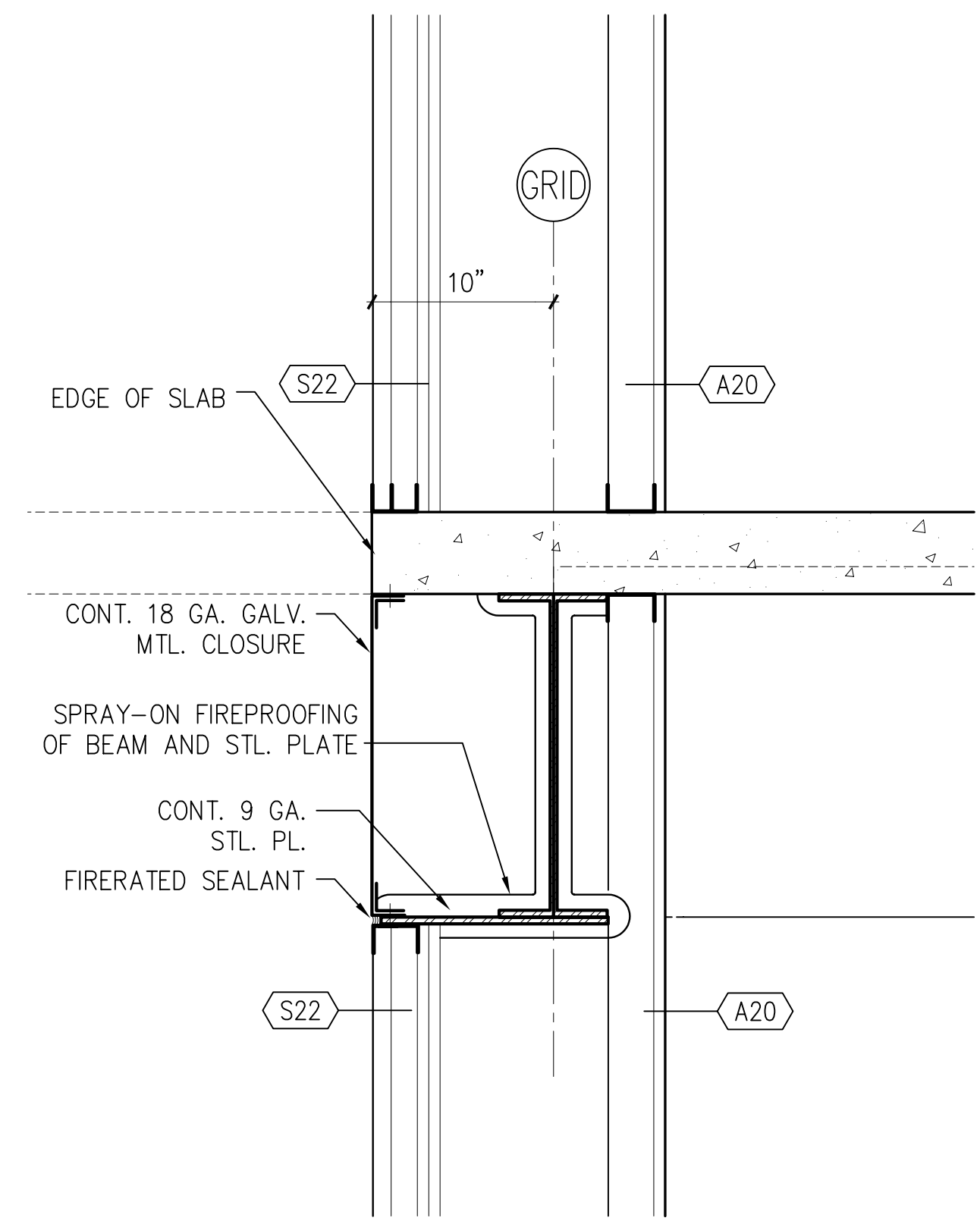
F7 ELEVATOR SHAFT DTL

1 1/2"=1'-0" A7/A506



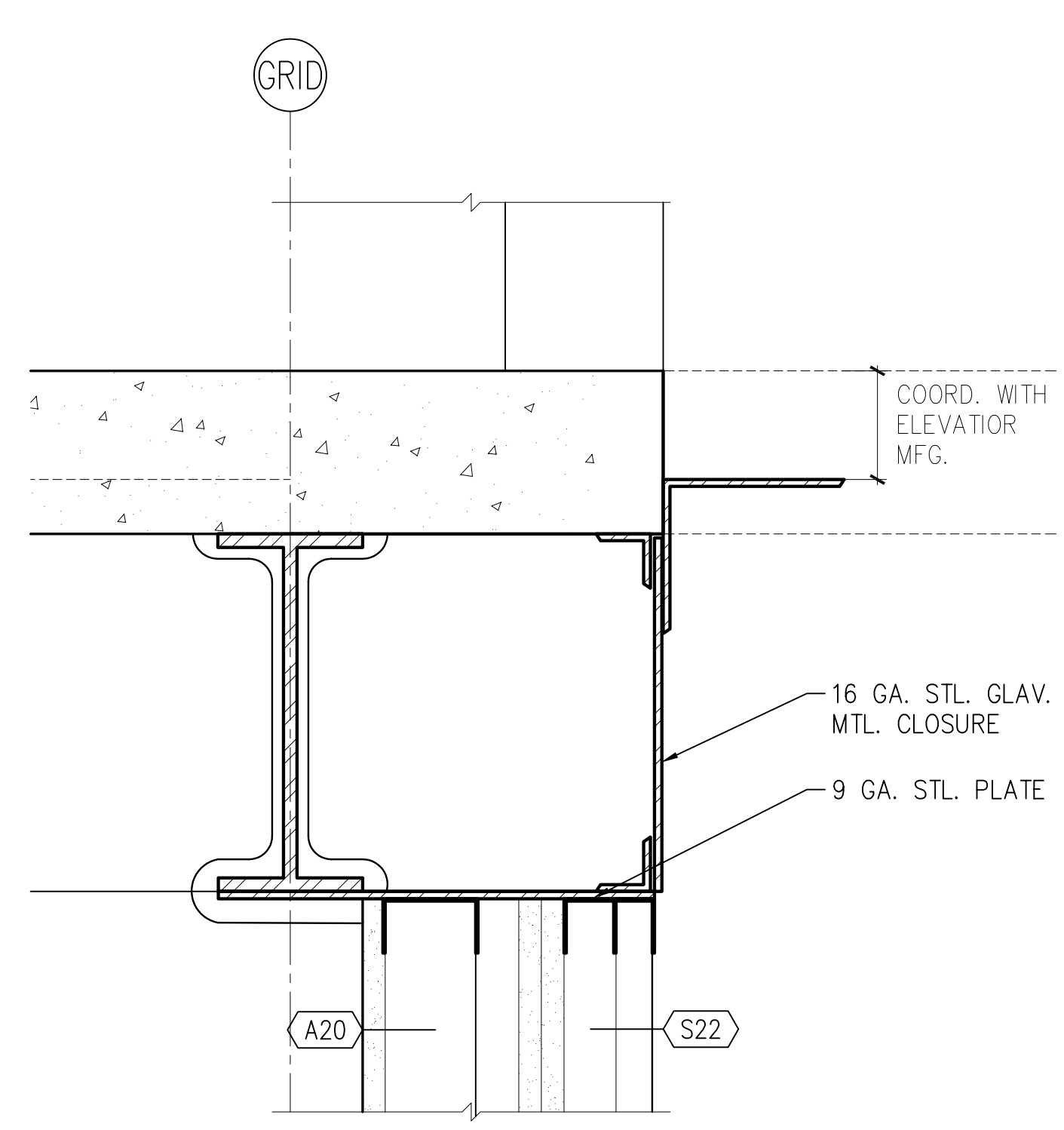
F11 ELEVATOR SHAFT DTL

1 1/2"=1'-0" A12/A506



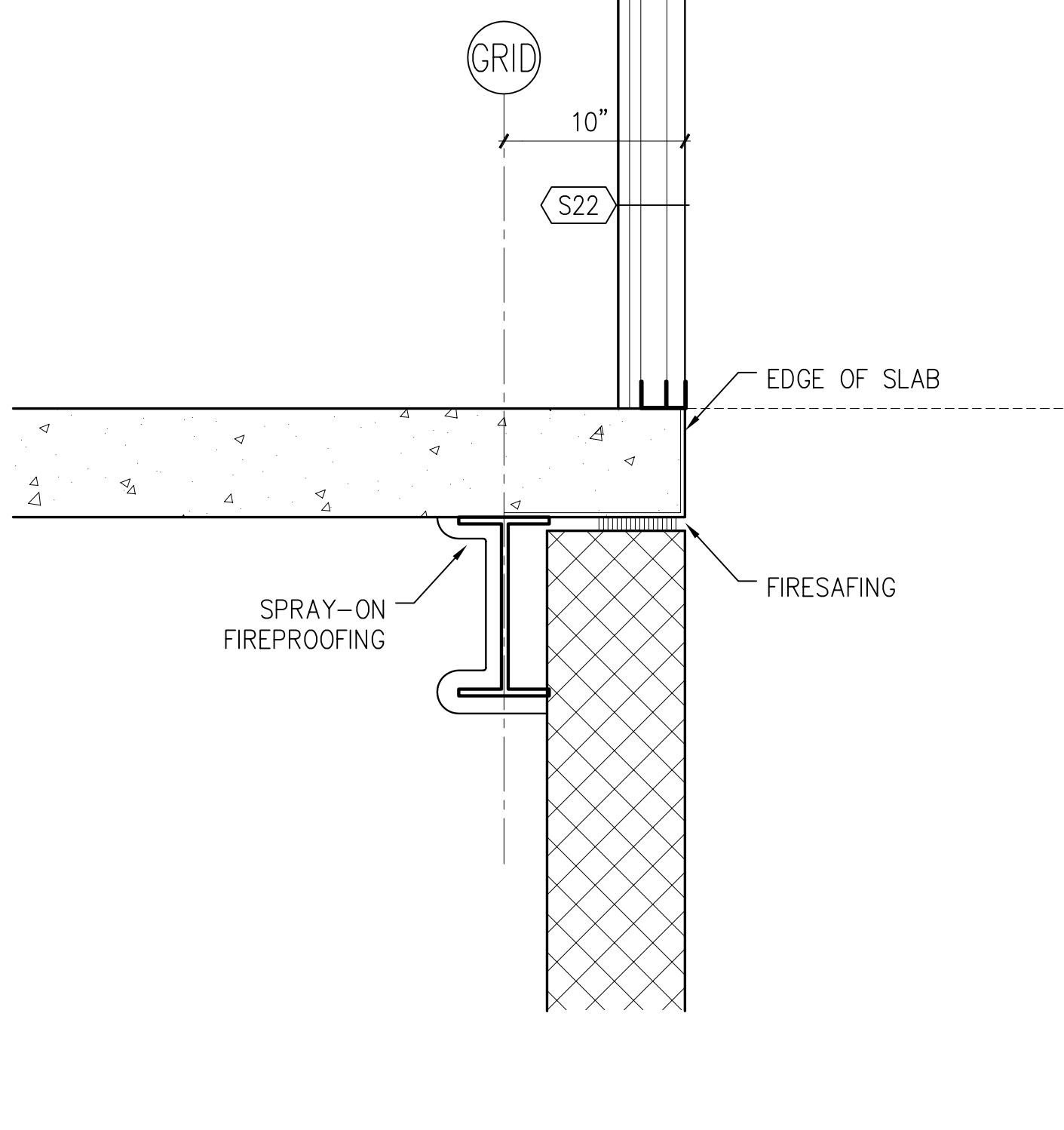
F14 ELEVATOR SHAFT DETAIL

1-1/2" = 1'-0" A13/A506



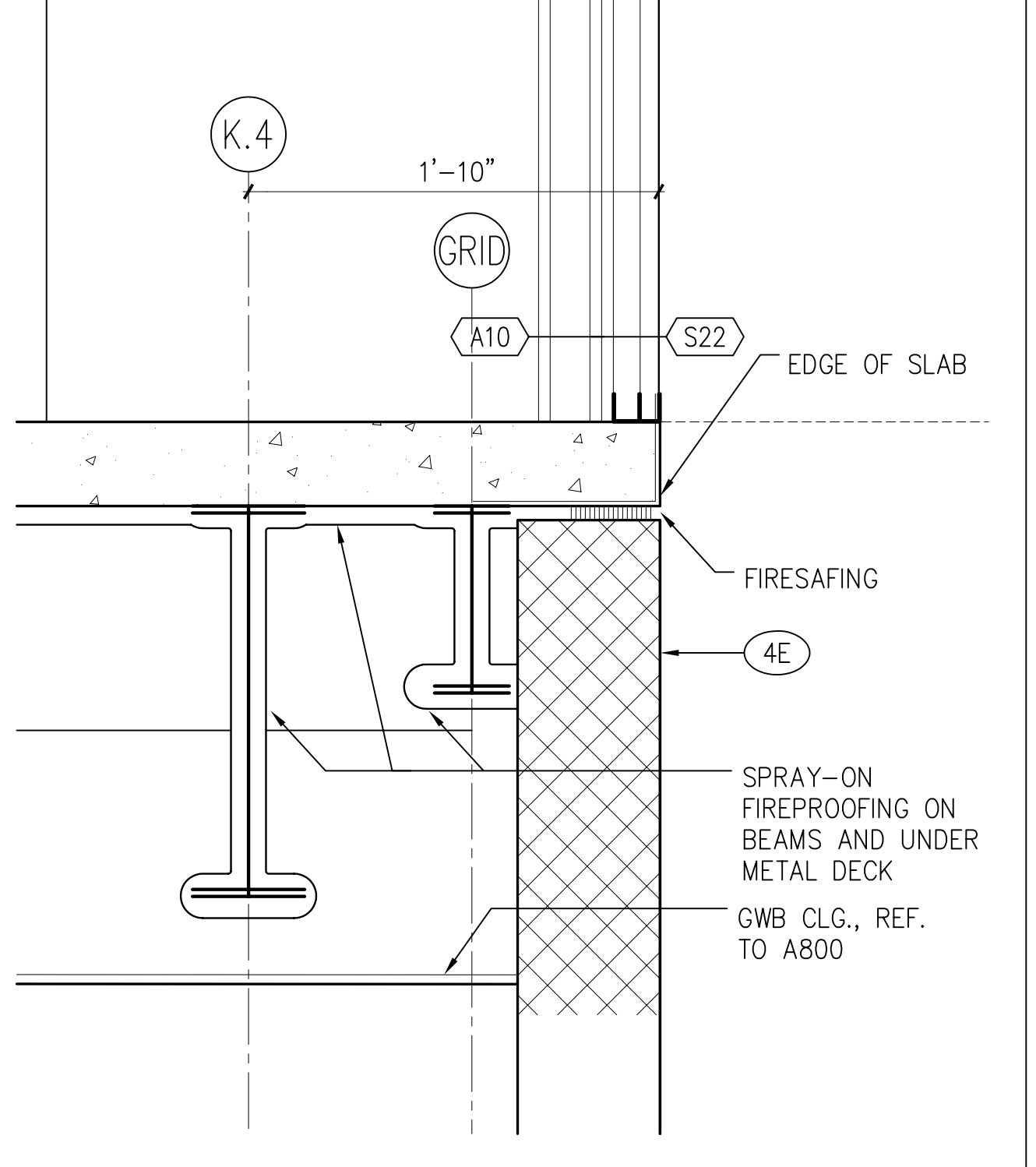
A1 ELEVATOR DOOR SILL

3"=1'-0" A12/A506



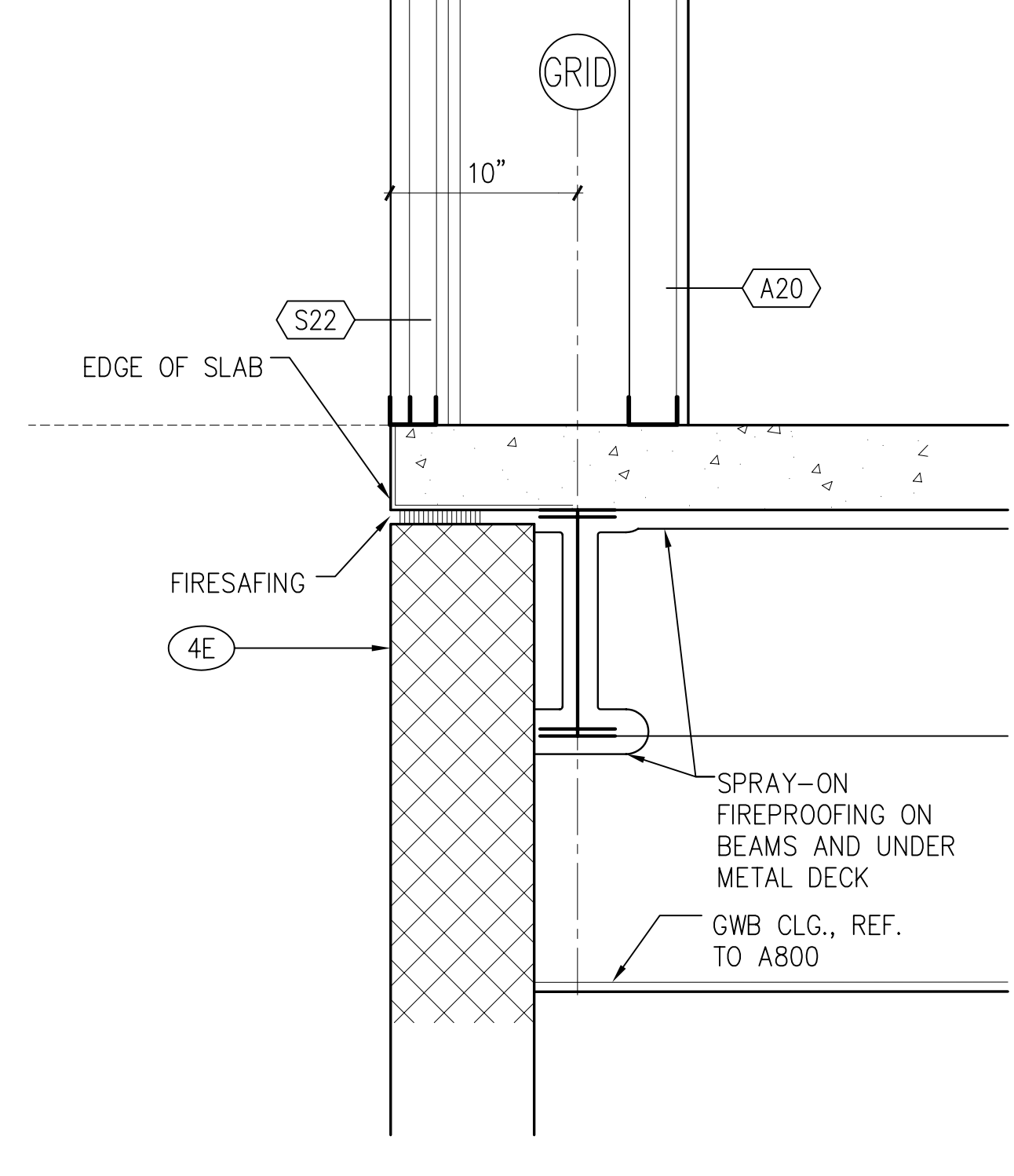
A7 ELEV DTL AT FIRST FLR

1 1/2"=1'-0" A7/A506



A11 ELEV DTL AT FIRST FLR

1 1/2"=1'-0" A12/A506



A14 ELEV DTL AT FIRST FLR

1 1/2"=1'-0" A12/A506

- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

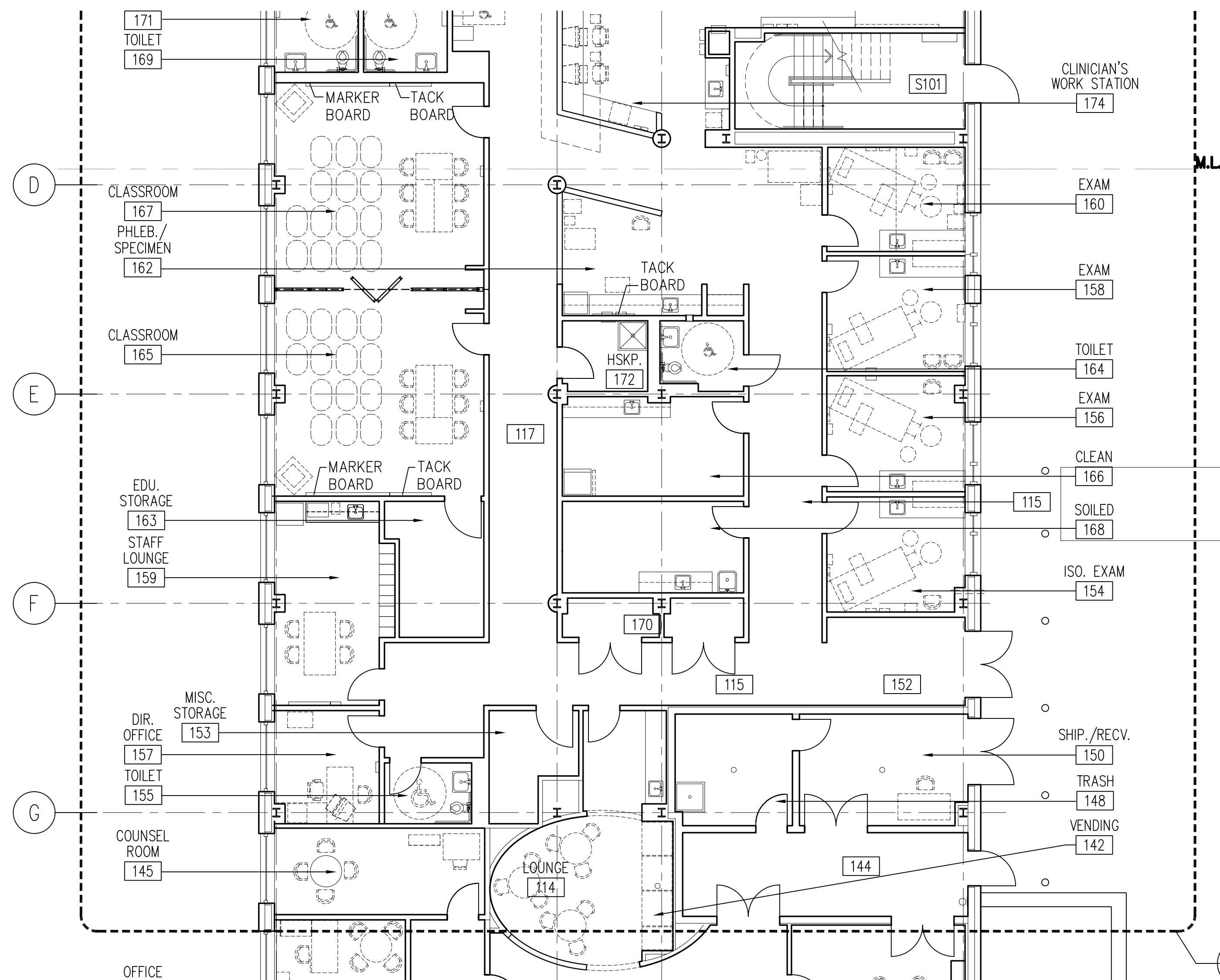
Elevator and Details

PROJECT NO. 34495.01  
 DATE: 2/20/02  
 A507  
 SHEET X OF XX

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

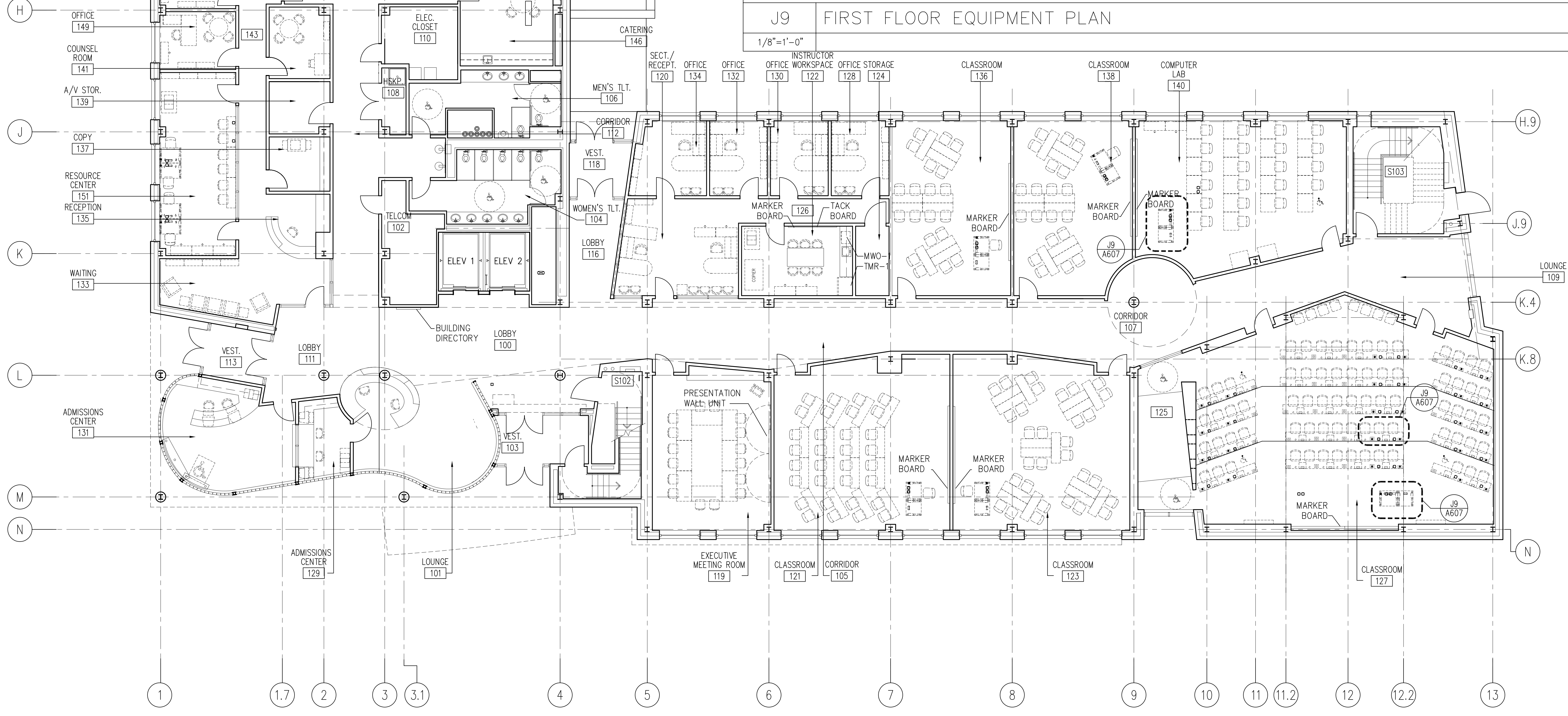
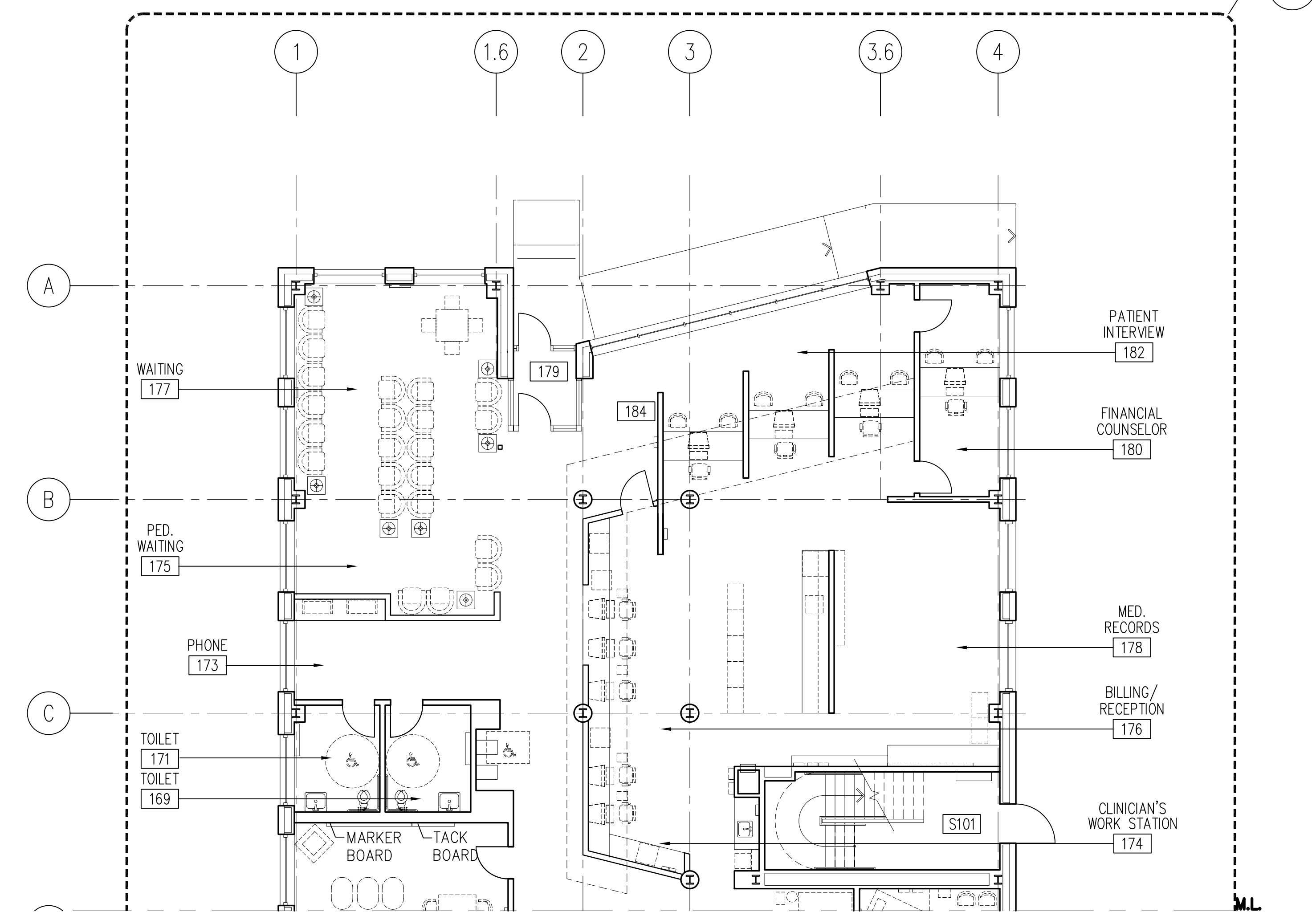
MONTGOMERY COLLEGE APPROVAL  
 DATE

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 Plotted by Engc



### J9 FIRST FLOOR EQUIPMENT PLAN

1/8"=1'-0"



### A1 FIRST FLOOR EQUIPMENT PLAN

1/8"=1'-0"

no.	revisions/submissions	date

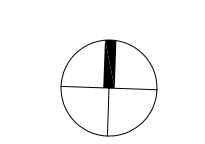
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

First Floor Equipment  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

PROJECT NO. 34499.01  
 DATE: 2/20/02  
 A601  
 SHEET XX OF XX

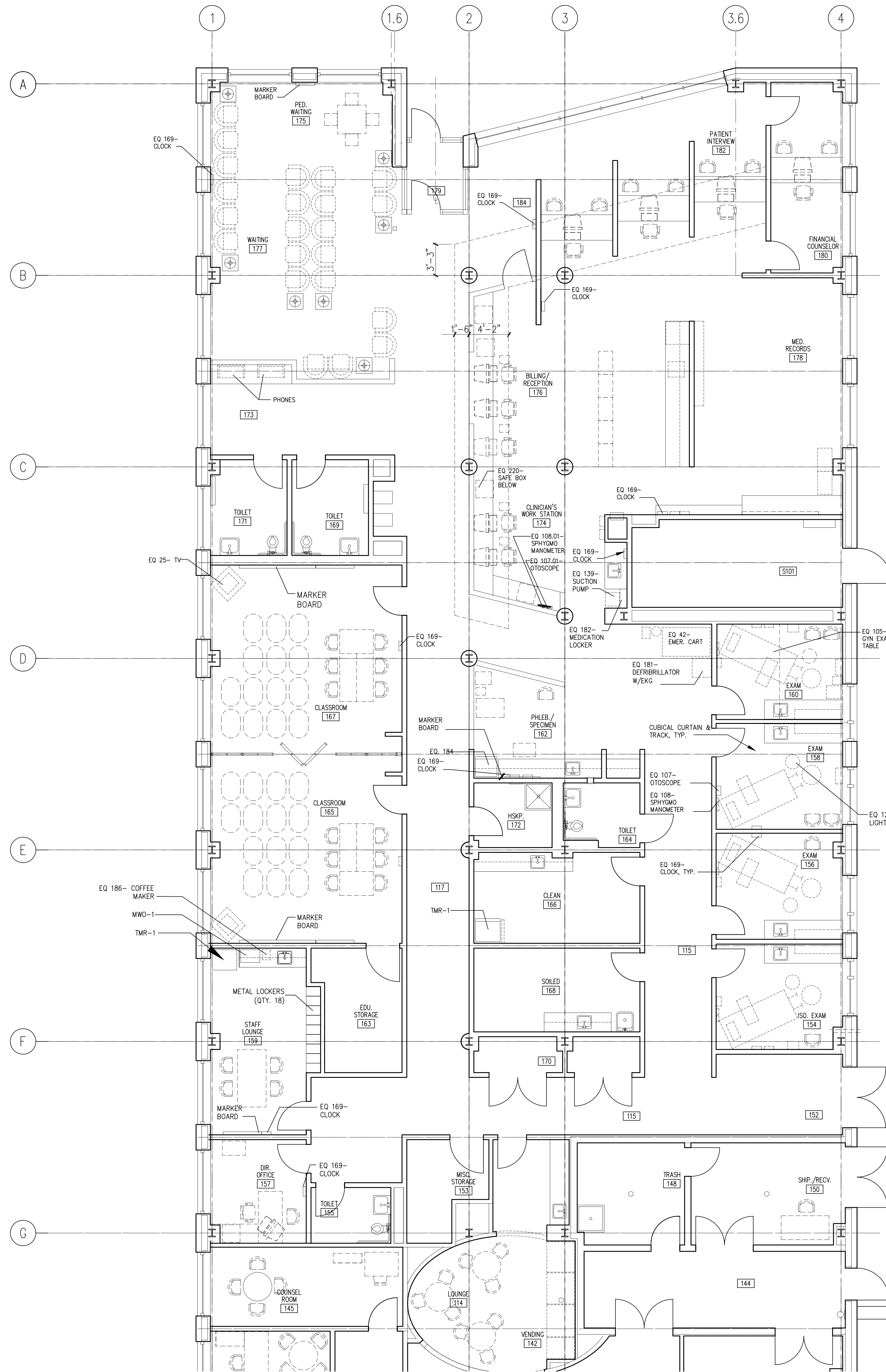
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 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL  
 DATE

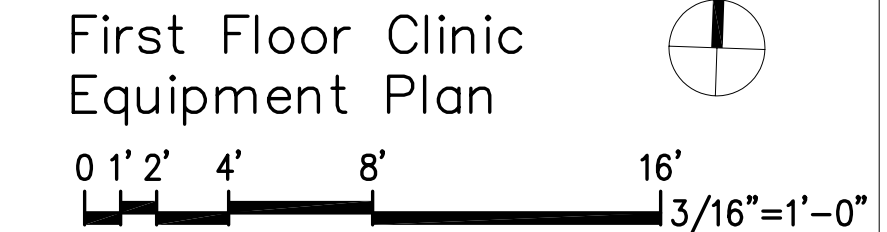


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no.	revisions/submissions	date



First Floor Clinic Equipment Plan

A1 NOT USED

A7 FIRST FLOOR HOLY CROSS CLINIC EQUIPMENT PLAN

3/16"=1'-0"

A601

PROJECT NO. 34499.01  
DATE: 2/20/02  
A601A  
SHEET X OF XX

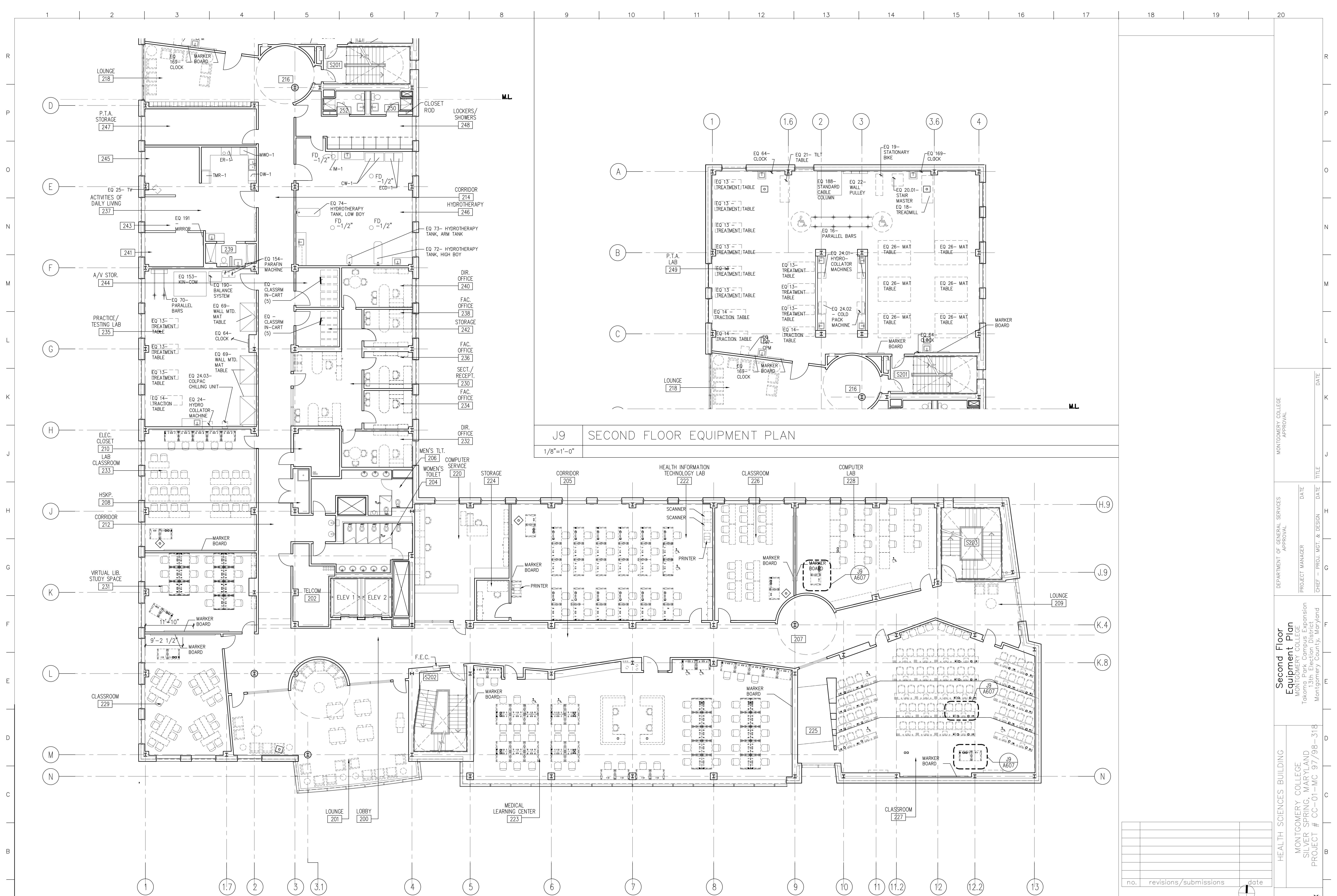
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

FIRST FLOOR CLINIC  
EQUIPMENT PLAN  
MONTGOMERY COLLEGE  
TAKOMA PARK CAMPUS EXPANSION  
13th ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL  
DATE

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J9 SECOND FLOOR EQUIPMENT PLAN  
1/8"=1'-0"

A1 SECOND FLOOR EQUIPMENT PLAN  
1/8"=1'-0"

no.	revisions/submissions	date

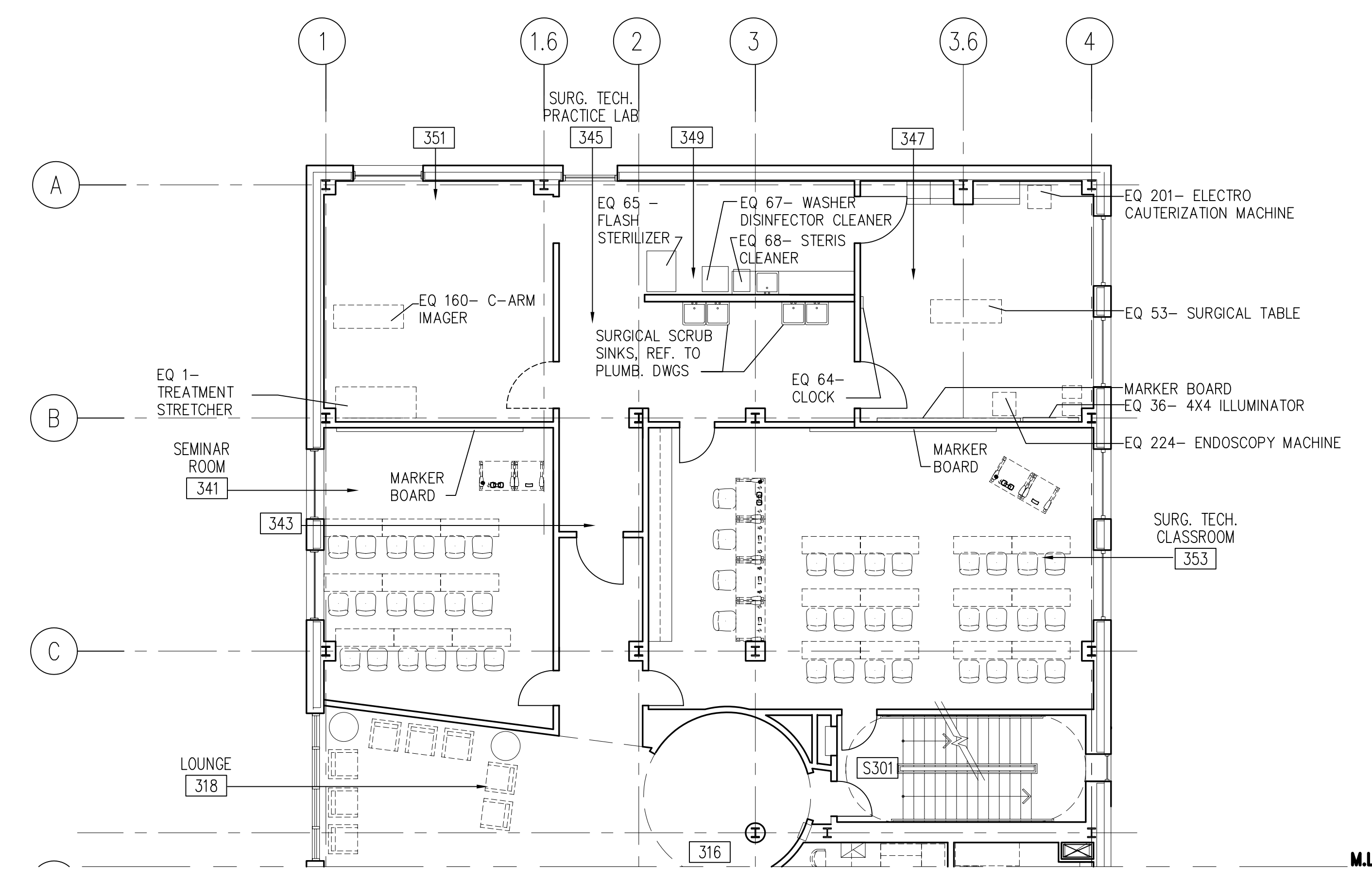
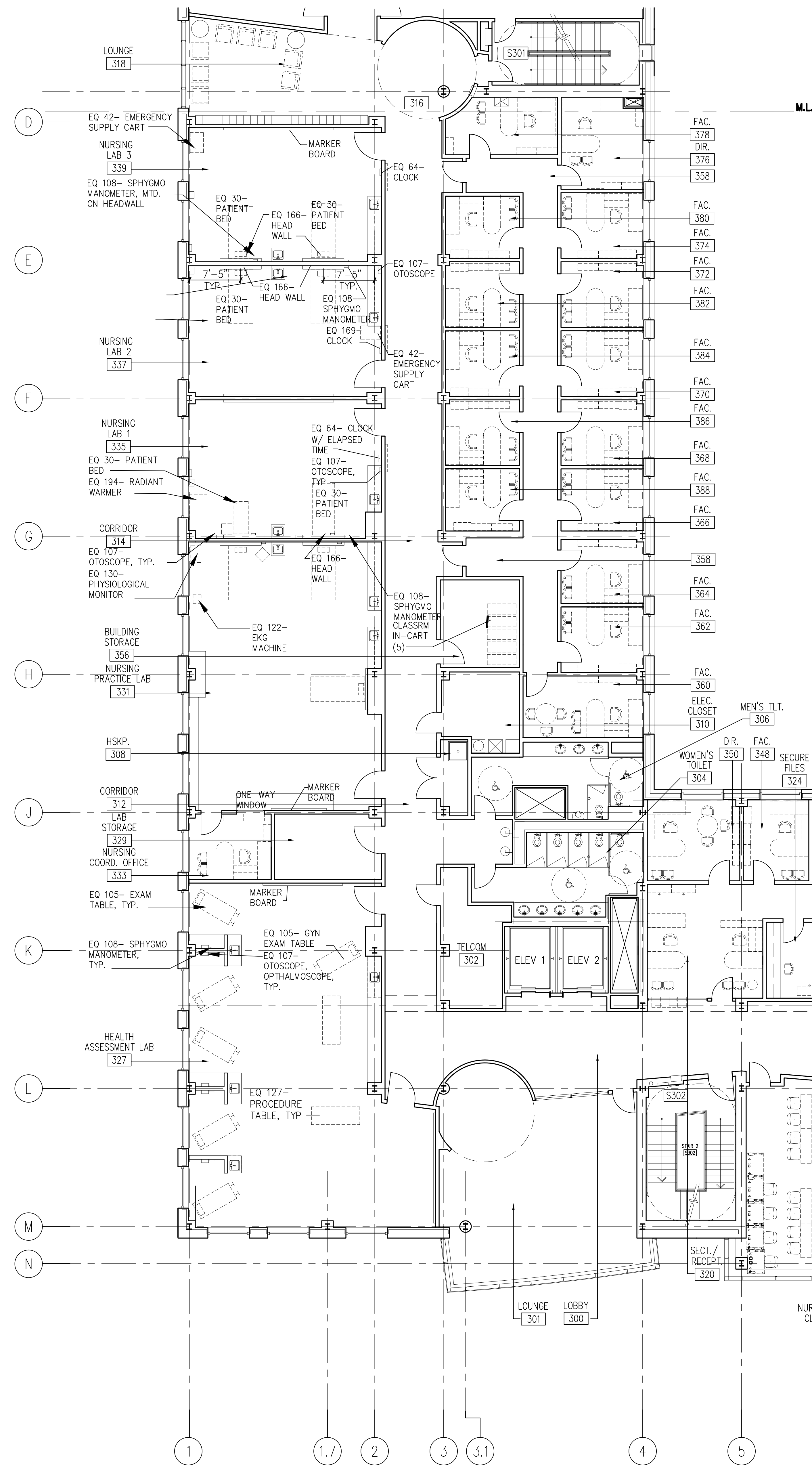
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

Second Floor  
 Equipment Plan  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

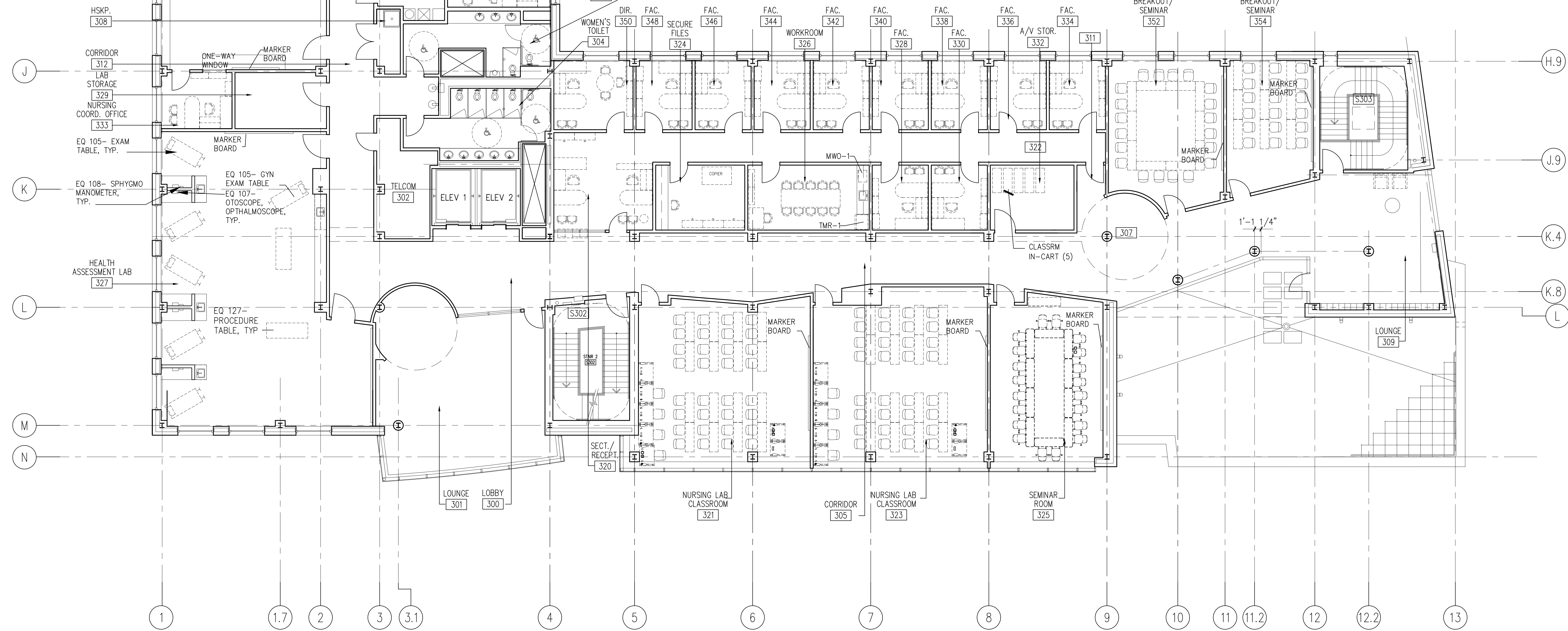
DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE

PROJECT NO.  
 34499.01  
 DATE: 2/20/02  
**A602**  
 SHEET X OF XX



J9 THIRD FLOOR EQUIPMENT PLAN  
1/8"=1'-0"



A1 THIRD FLOOR EQUIPMENT PLAN  
1/8"=1'-0"

no.	revisions/submissions	date

PROJECT NO. 34499.01  
 DATE: 2/20/02  
**A603**  
 SHEET X OF XX

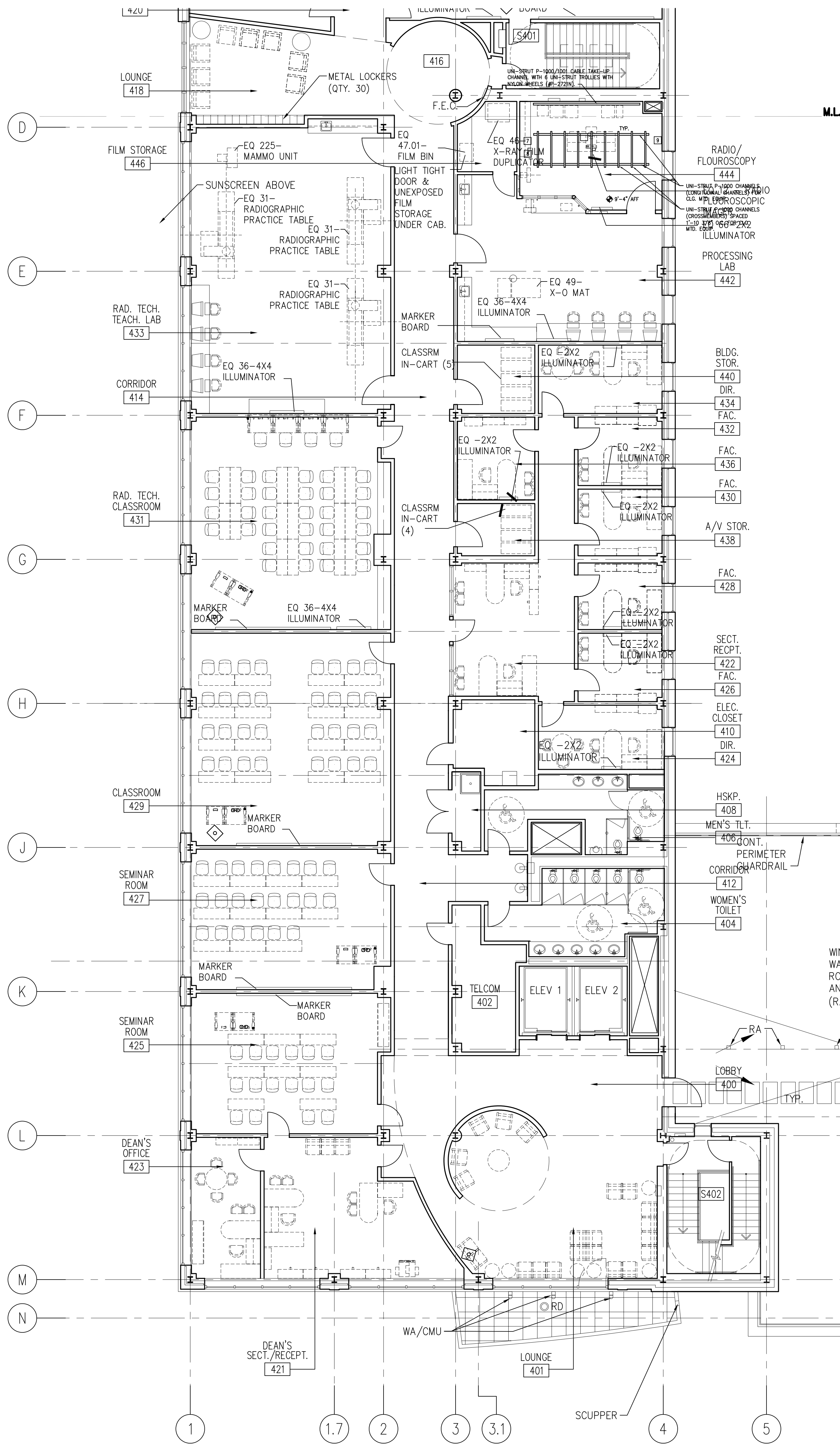
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

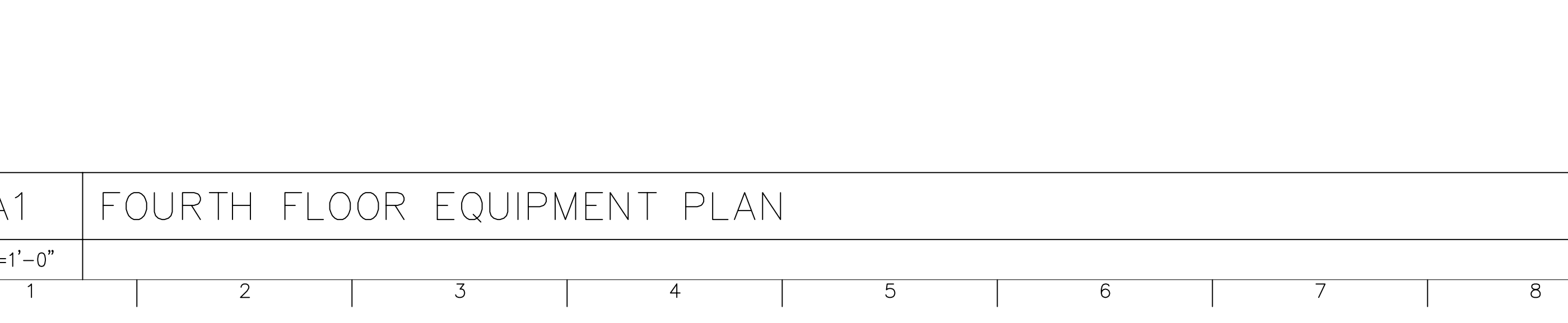
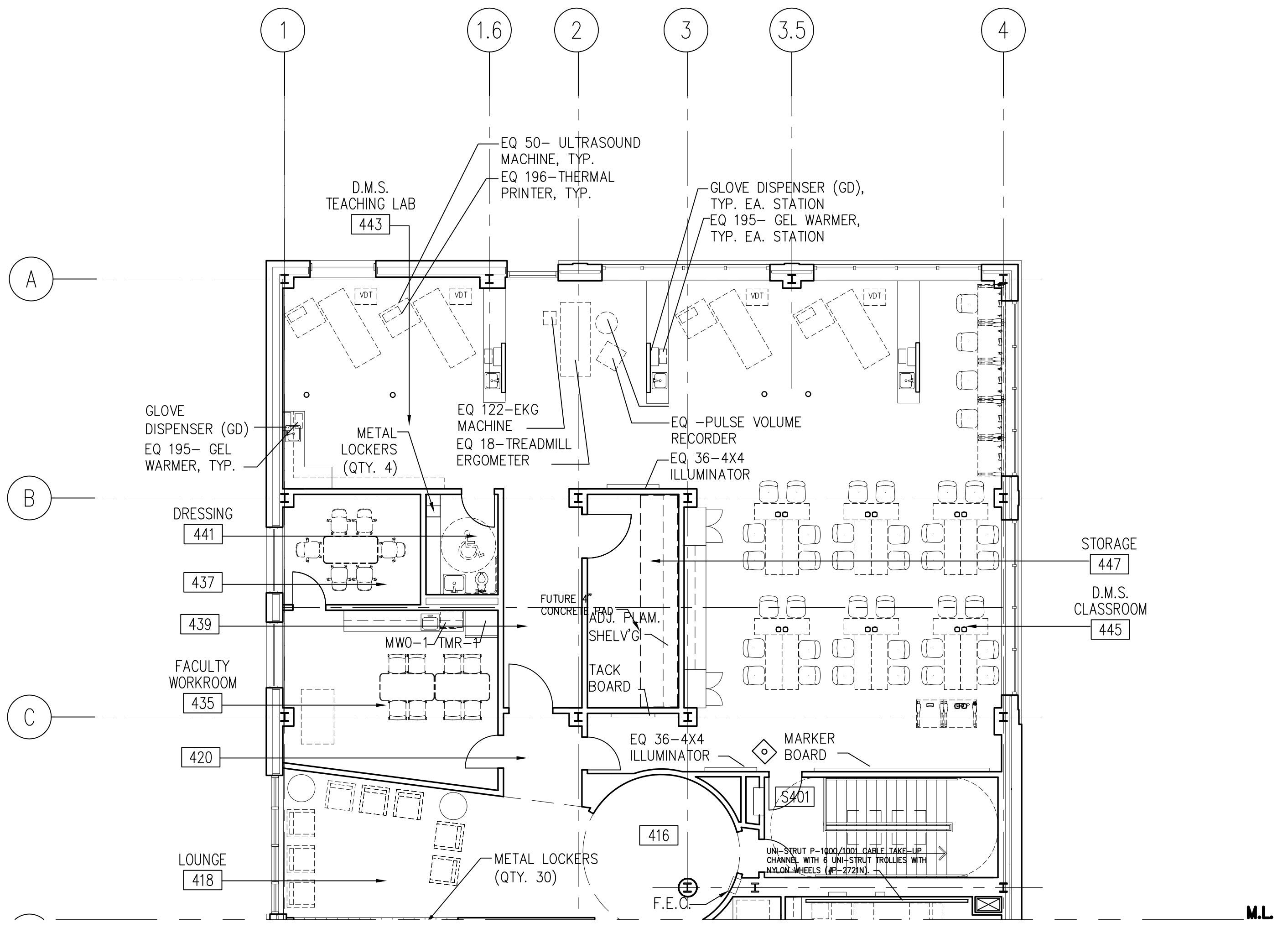
MONTGOMERY COLLEGE APPROVAL  
 DATE

**Third Floor Equipment Plan**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

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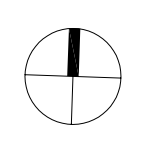
J9 FOURTH FLOOR EQUIPMENT PLAN  
 1/8"=1'-0"



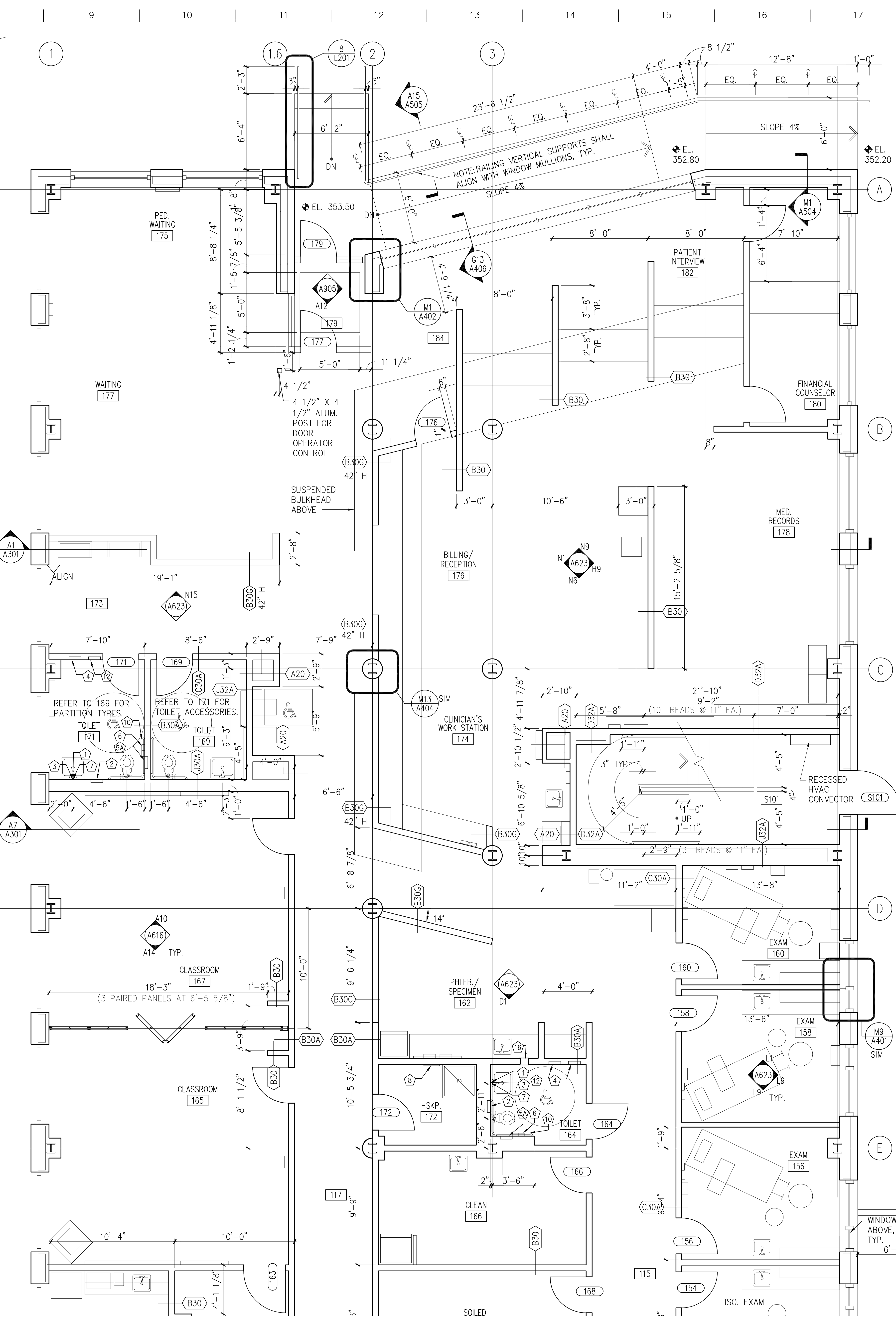
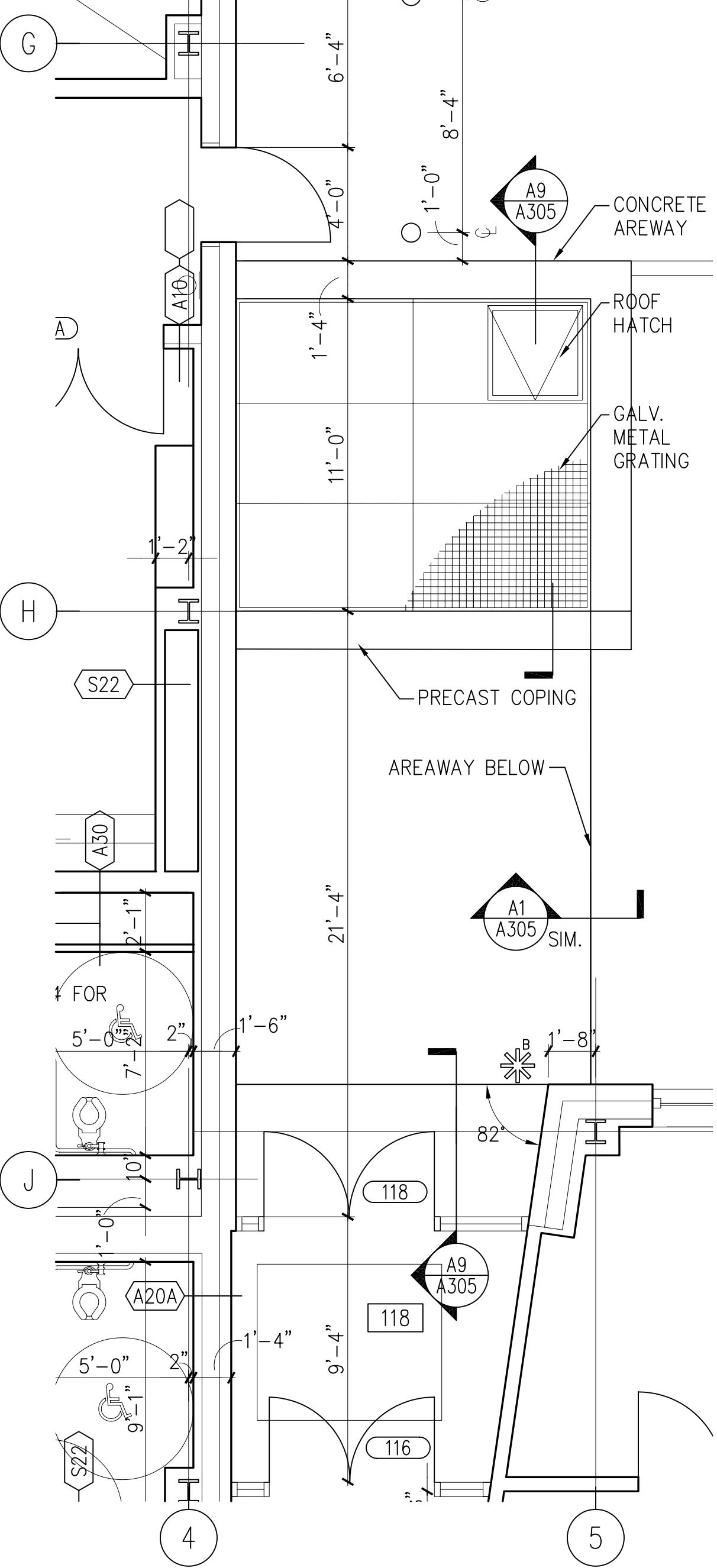
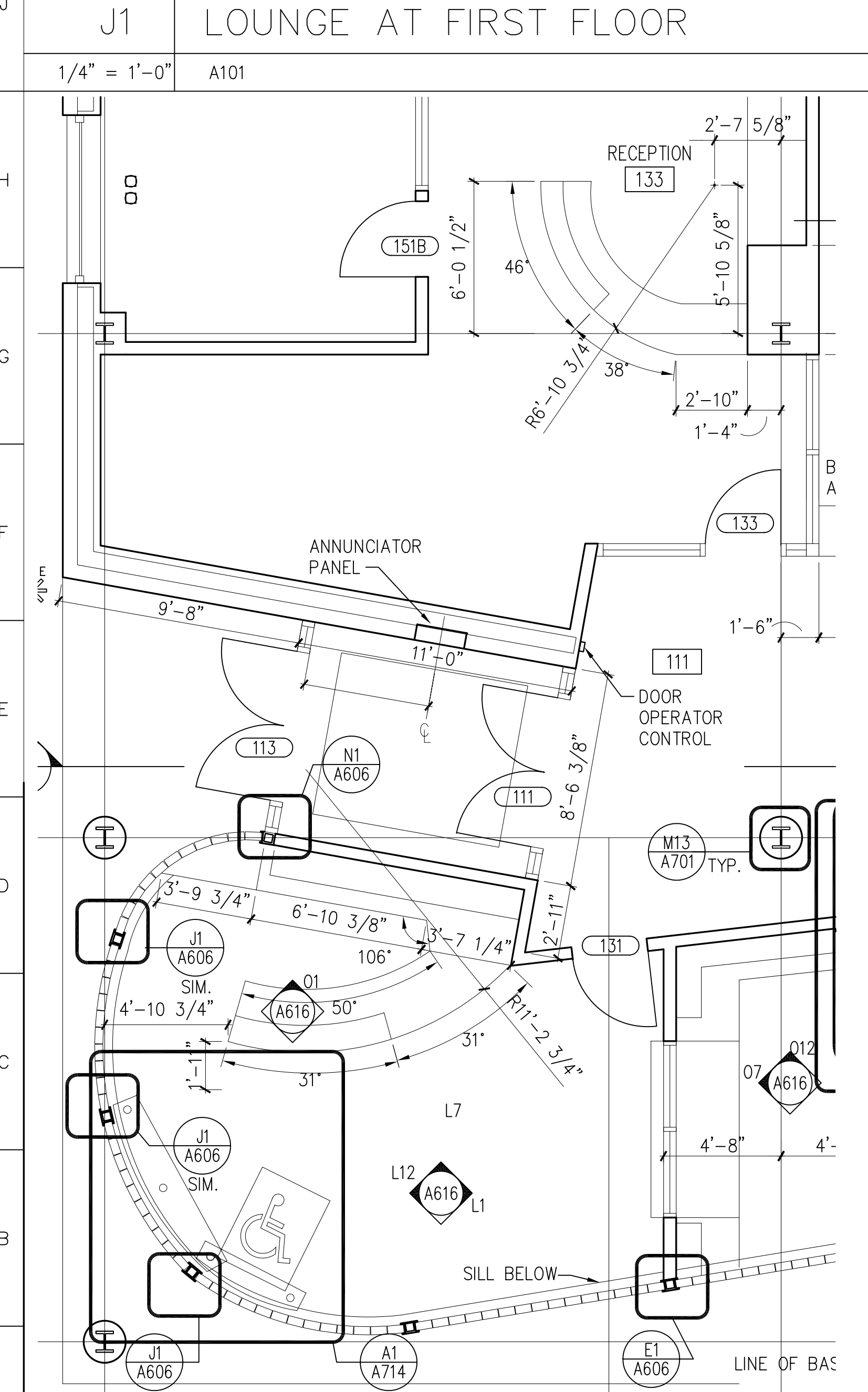
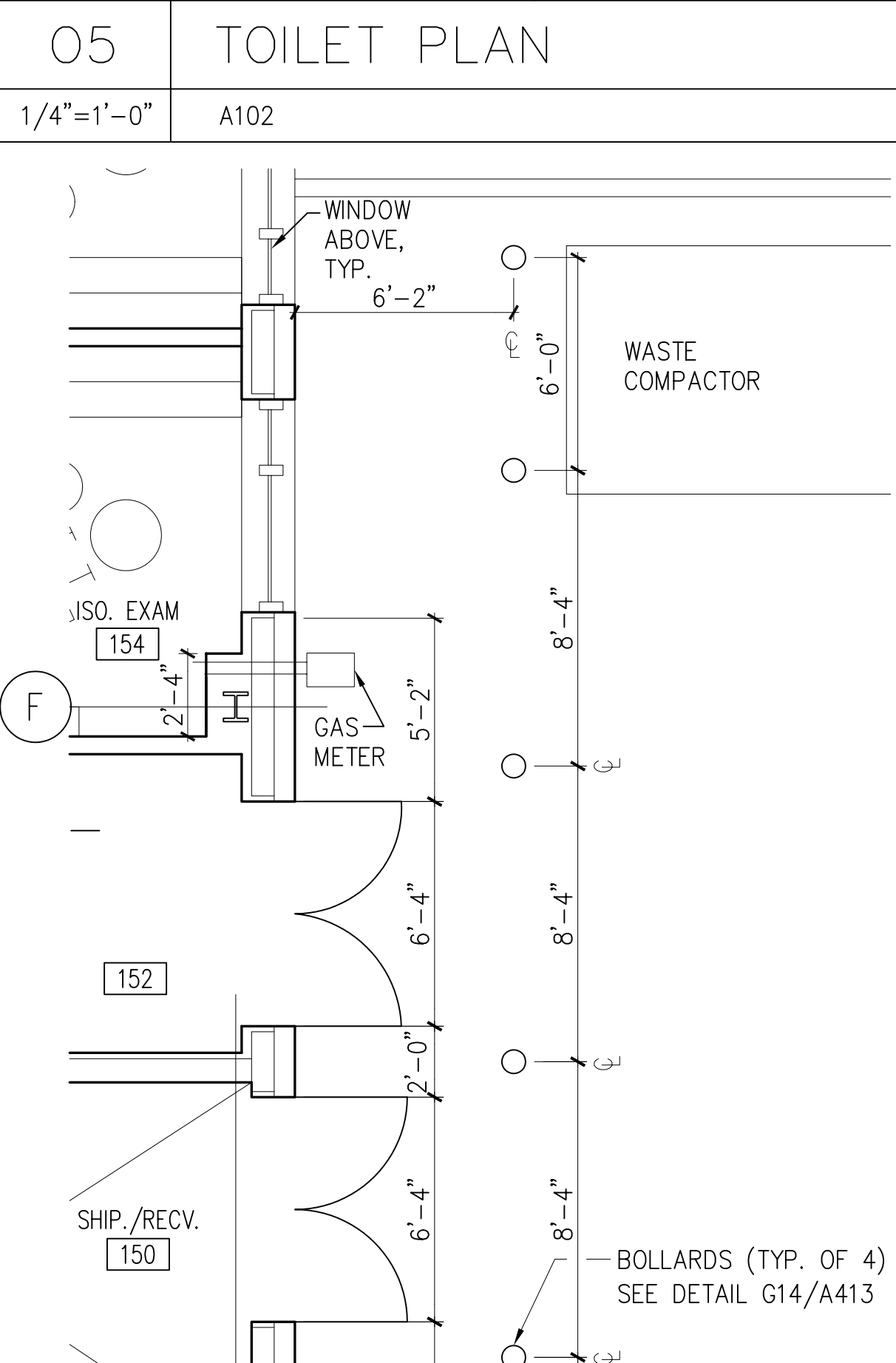
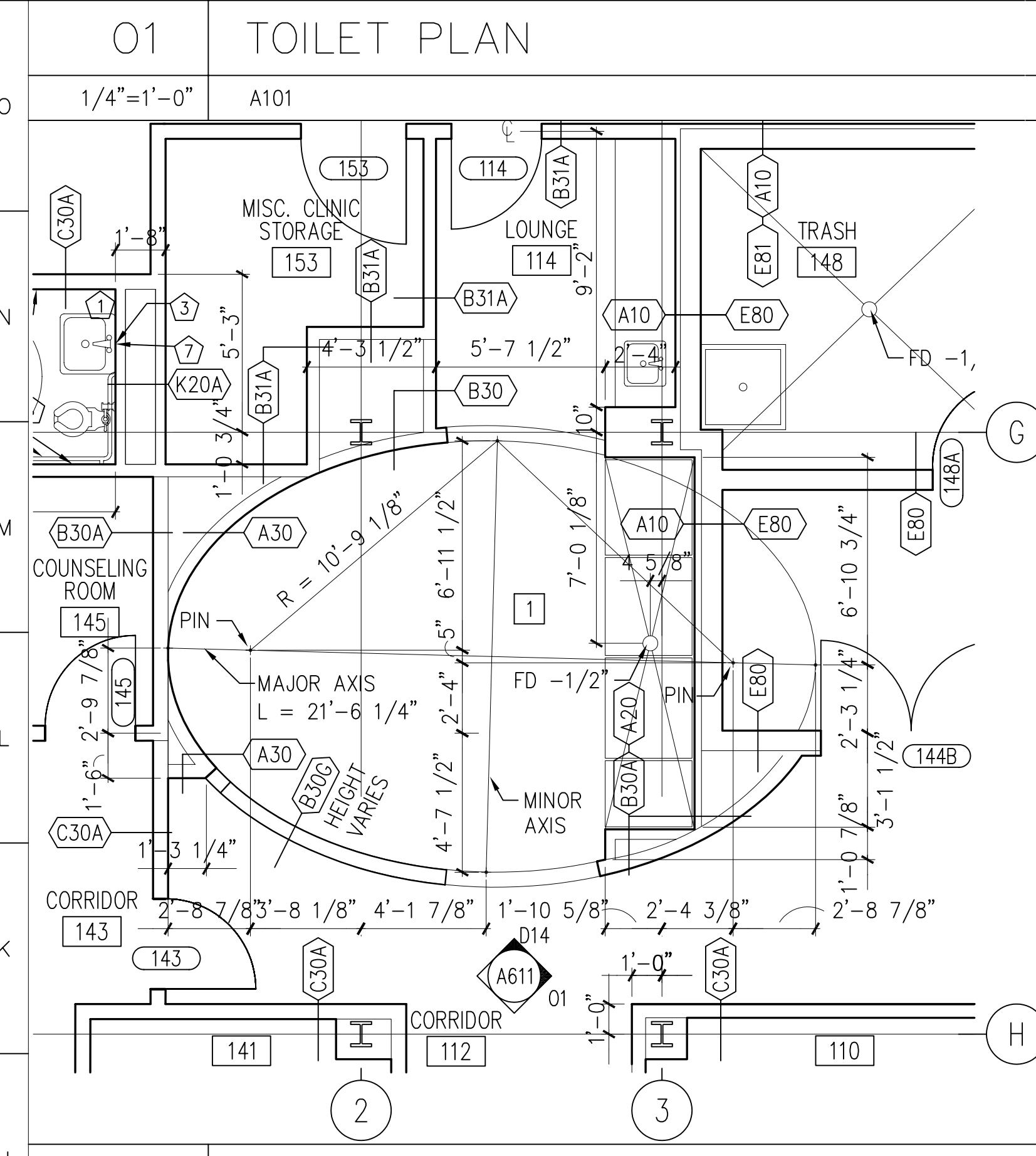
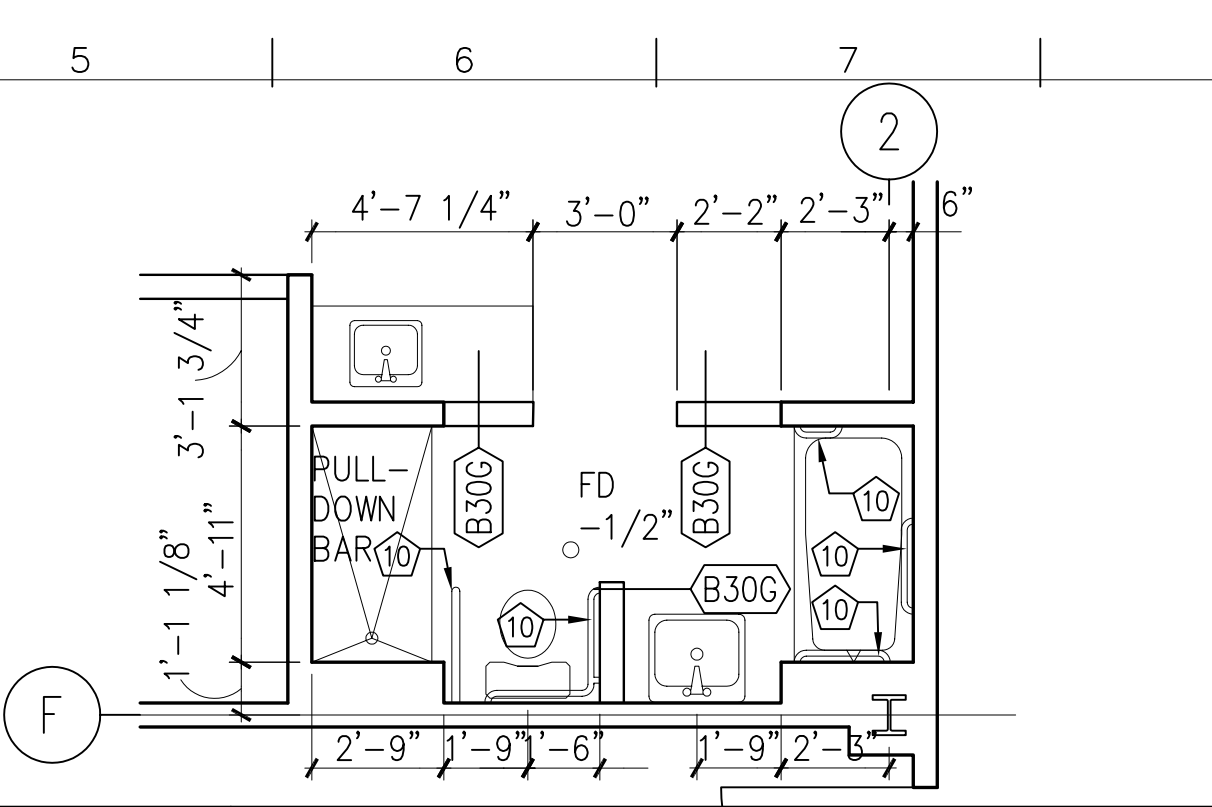
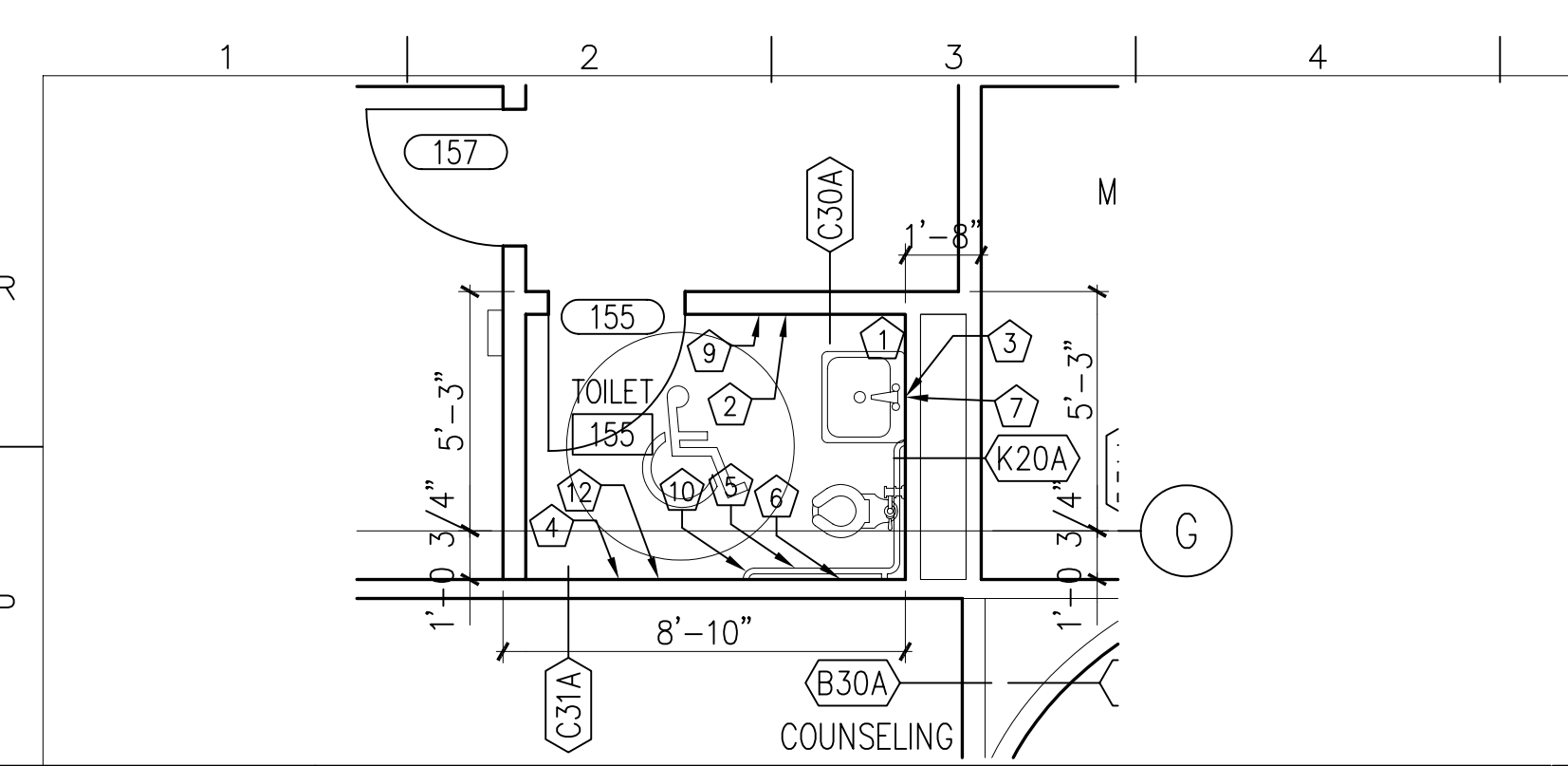
A1 FOURTH FLOOR EQUIPMENT PLAN  
 1/8"=1'-0"

PROJECT NO. 34499.01	DATE: 2/20/02	HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC 97/98-318	APPROVAL	DATE
A604	XX		DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE
SHEET X OF XX			PROJECT MANAGER	DATE
			CHIEF - PROJ. MGT. & DESIGN	DATE
			TITLE	DATE

no.	revisions/submissions	date



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**TOILET ACCESSORY SCHED.**

1	TBA NUMBER IN THE TOILET ACCESSORY SCHEDULE IN THE SPECIFICATIONS
2	MIRROR UNIT
3	PAPER TOWEL DISPENSER
4	SOAP DISPENSER
5	SANITARY NAPKIN VENDOR
6	WALL MOUNTED SANITARY NAPKIN DISPOSAL UNIT
7	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL UNIT
8	TOILET TISSUE DISPENSER
9	SHELF
10	MOP AND BROOM HOLDER
11	WASTE RECEPTACLE
12	GRAB BAR
13	SHOWER ROD
14	SEAT COVER DISPENSER
15	FOLDING SHOWER SEAT
16	ROBE HOOK
17	TOWEL BAR
18	SPECIMEN PASS-THROUGH WINDOW
19	GLOVE DISPENSER
20	GLOVE DISPENSER

**GENERAL NOTES**

1 DETERMINE ELLIPSE SHAPE BY STRING METHOD. STRING LENGTH BETWEEN PINS IS EQUAL TO LENGTH (L) OF MAJOR AXIS.

Xre

**KEYED NOTES**

no.	revisions/submissions	date

**A1 PLAN DETAIL**  
1/4" = 1'-0" A101

**A5 PLAN DETAIL**  
1/4" = 1'-0" A101

**A8 PLAN DETAIL**  
1/4" = 1'-0" A101

PROJECT NO. 34495.01  
DATE: 2/20/02

**A605**

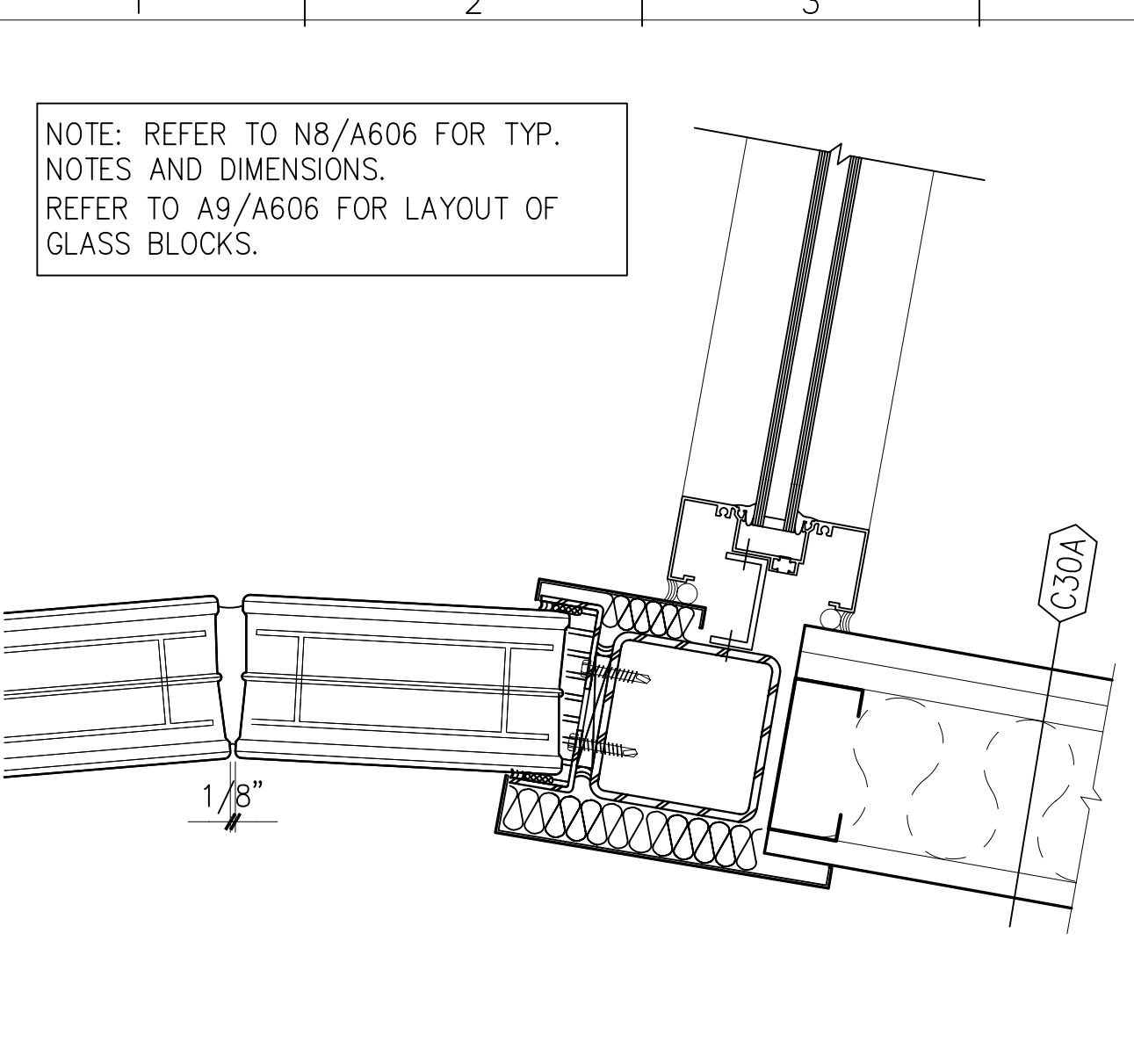
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Plan Details  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

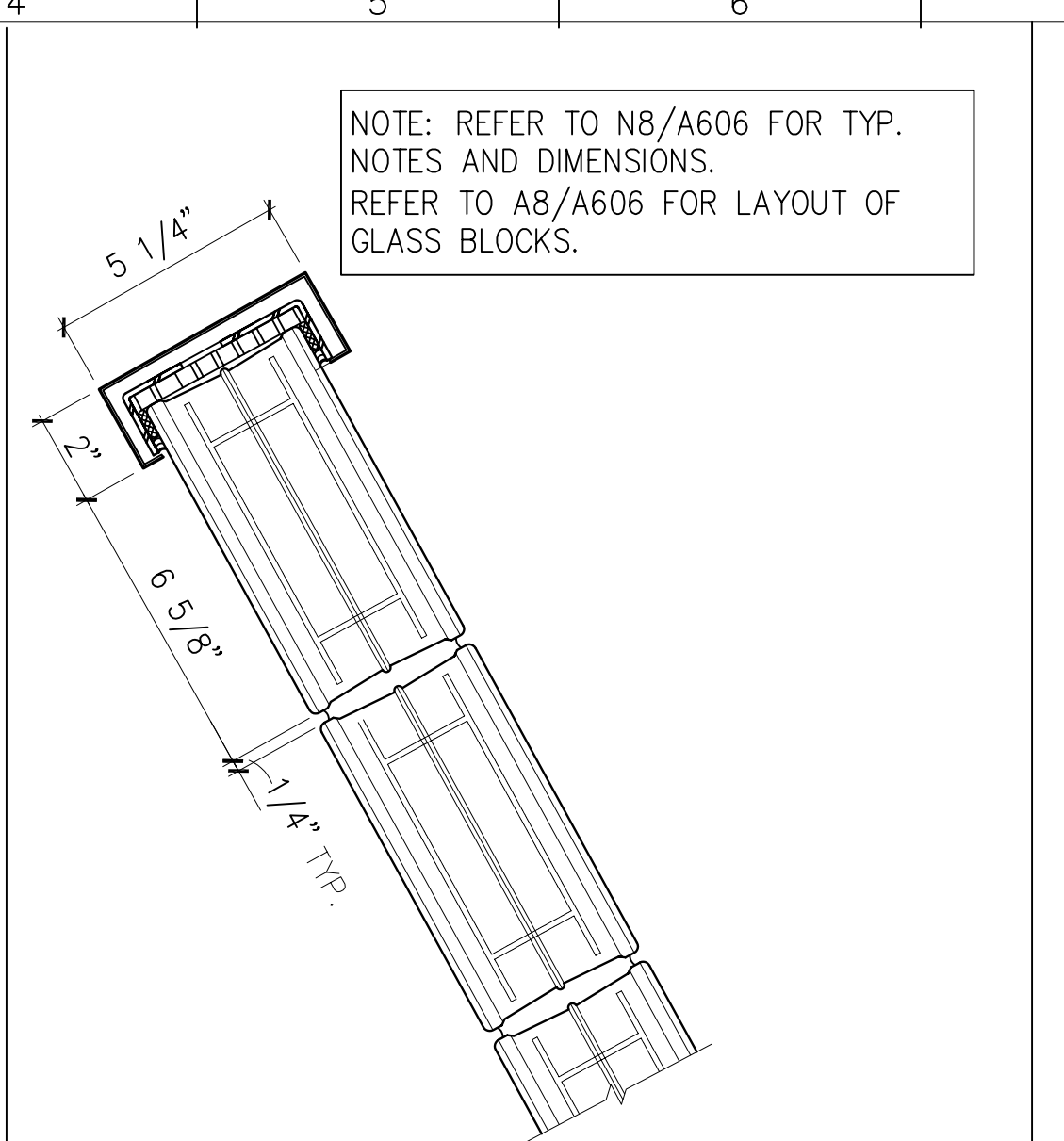
DEPARTMENT OF GENERAL SERVICES  
MONTGOMERY COLLEGE  
APPROVAL

PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

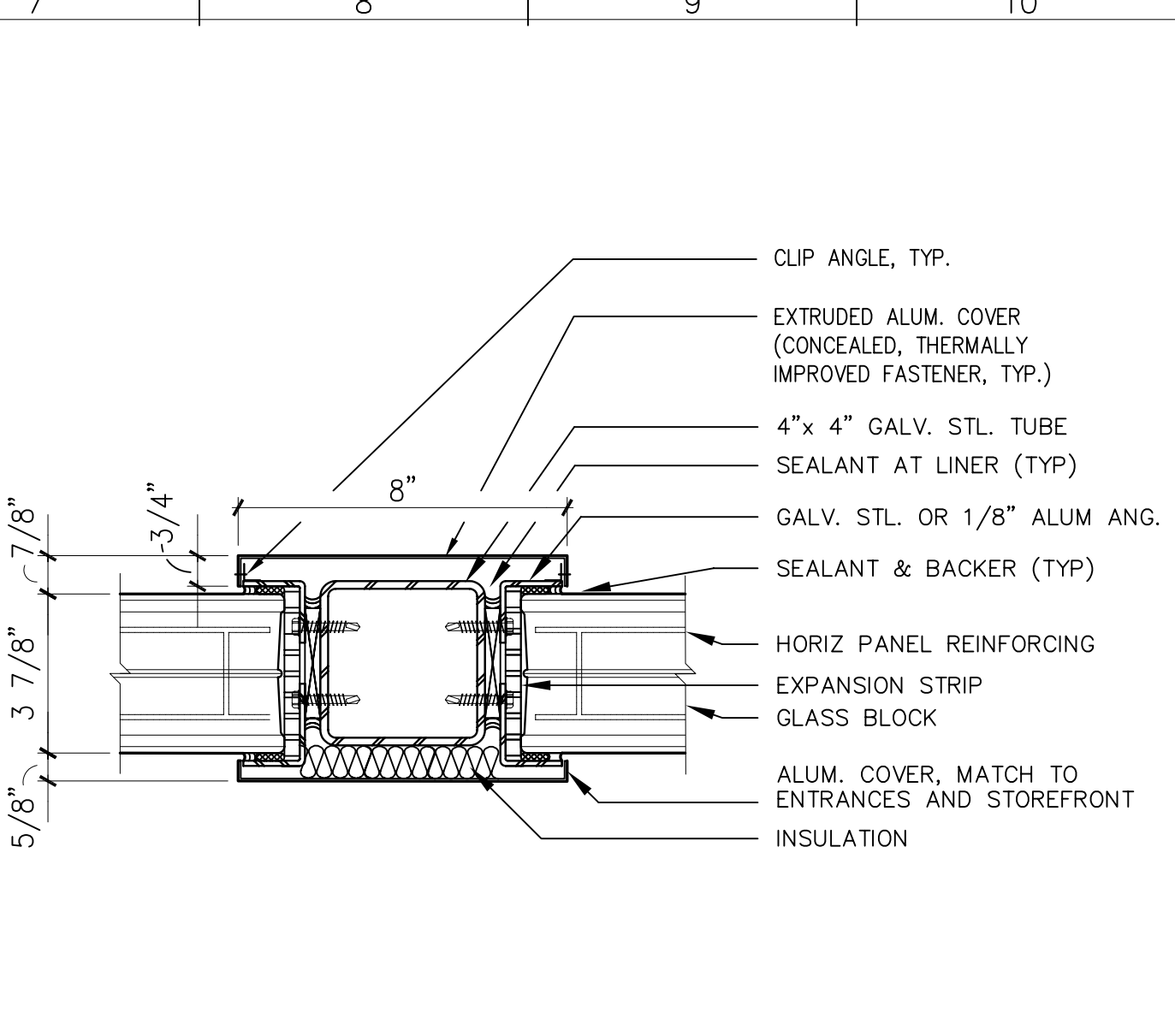
SHEET XX OF XX



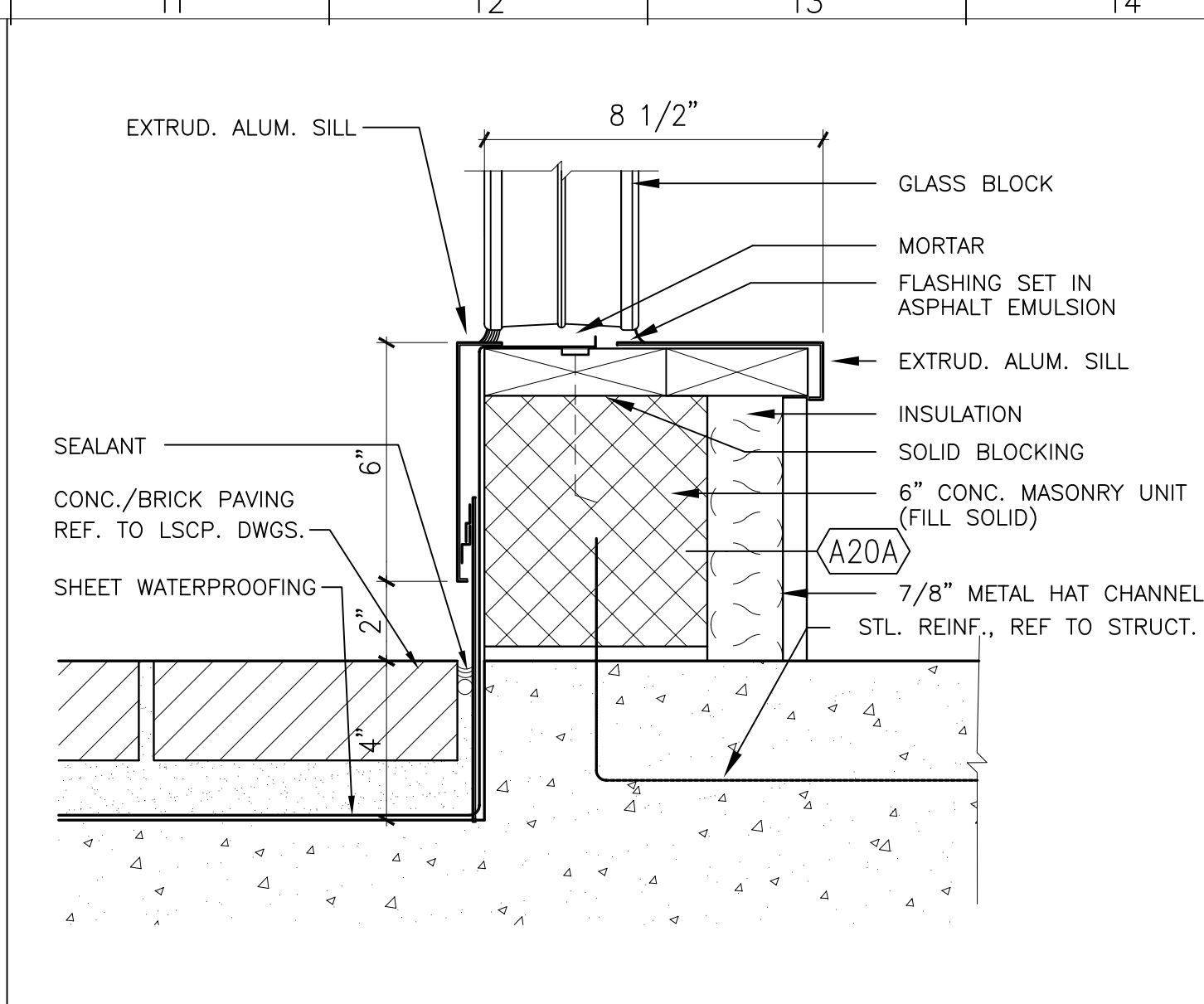
N1 GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



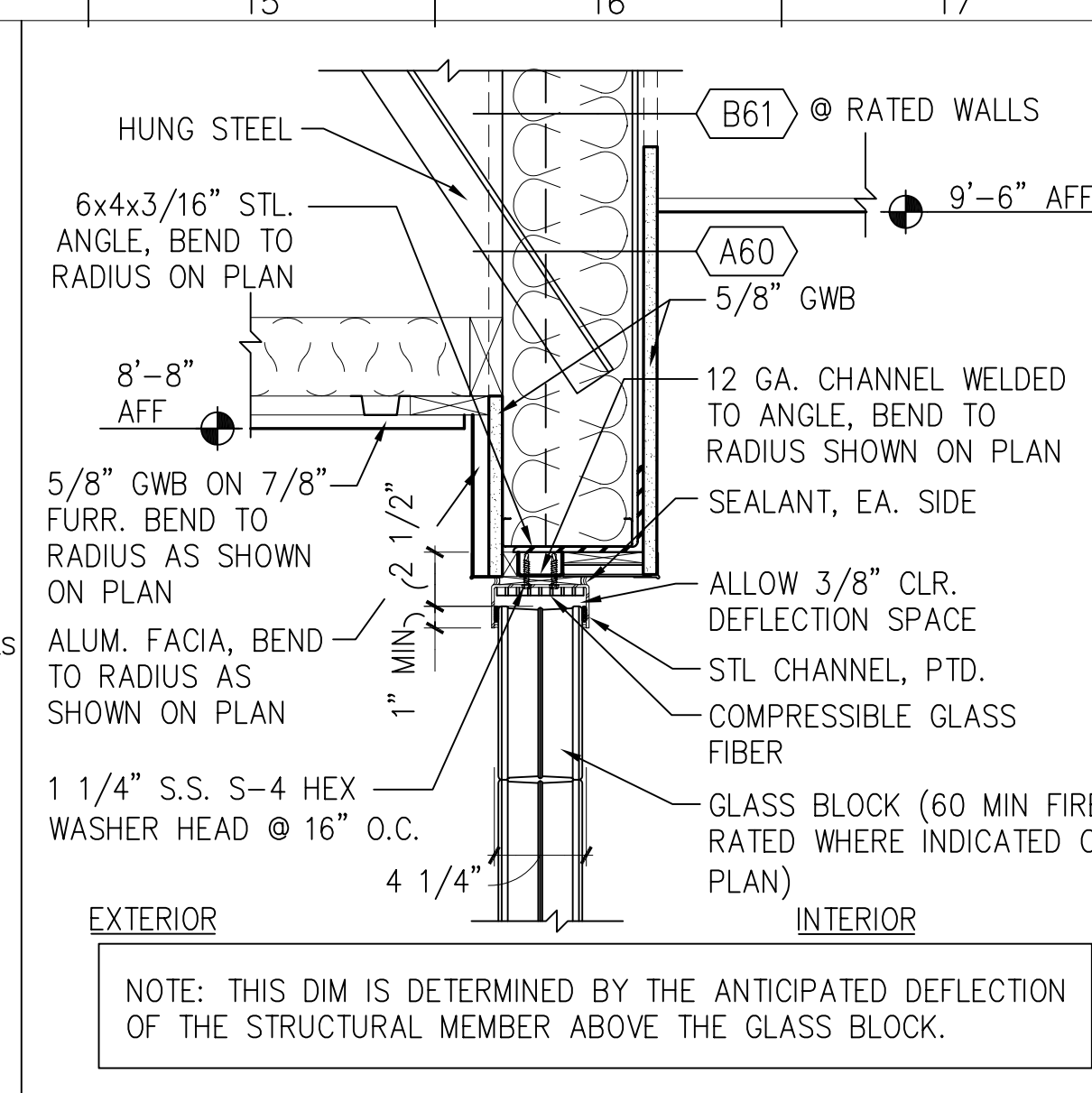
N4 GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



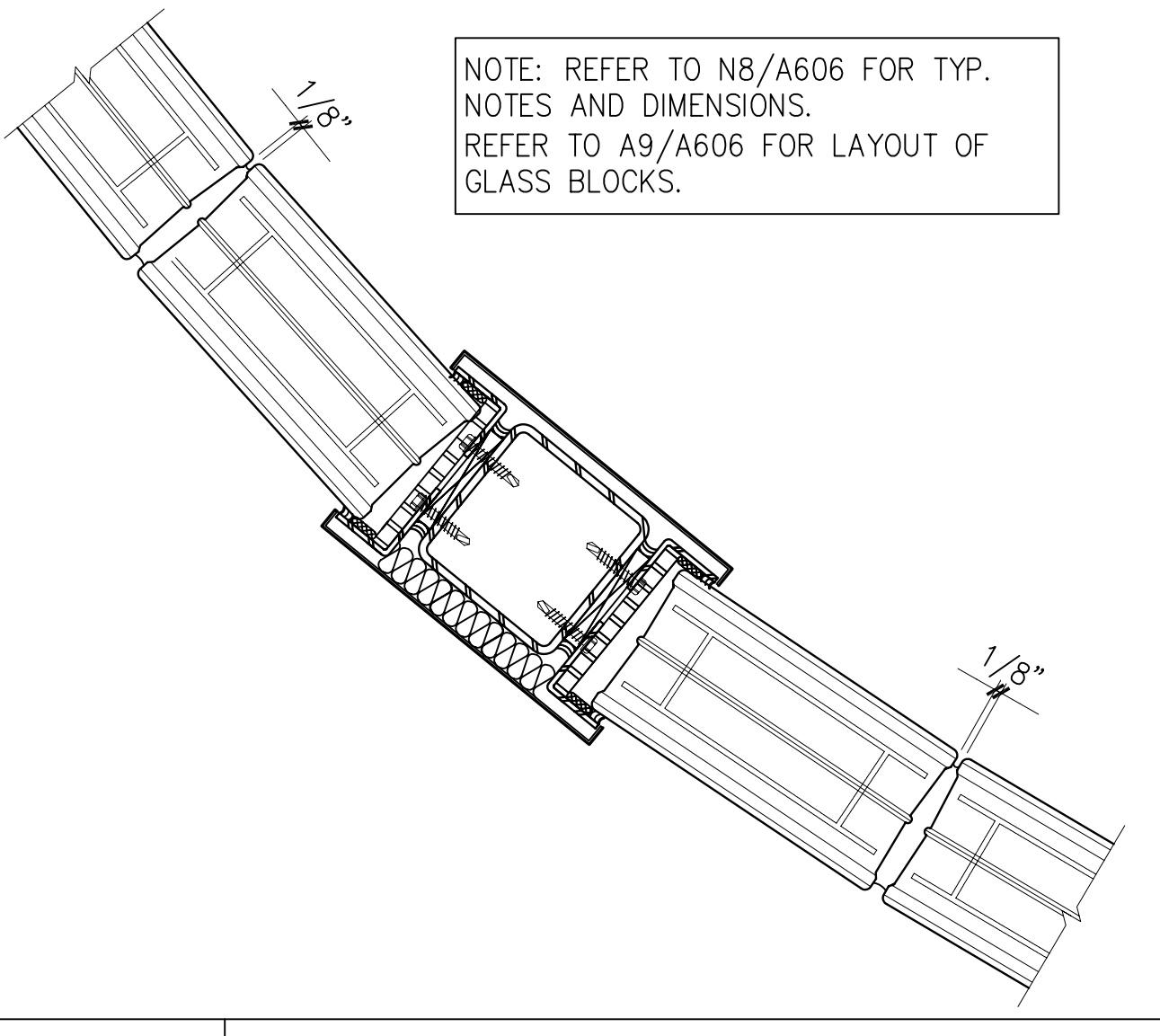
N8 TYPICAL GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



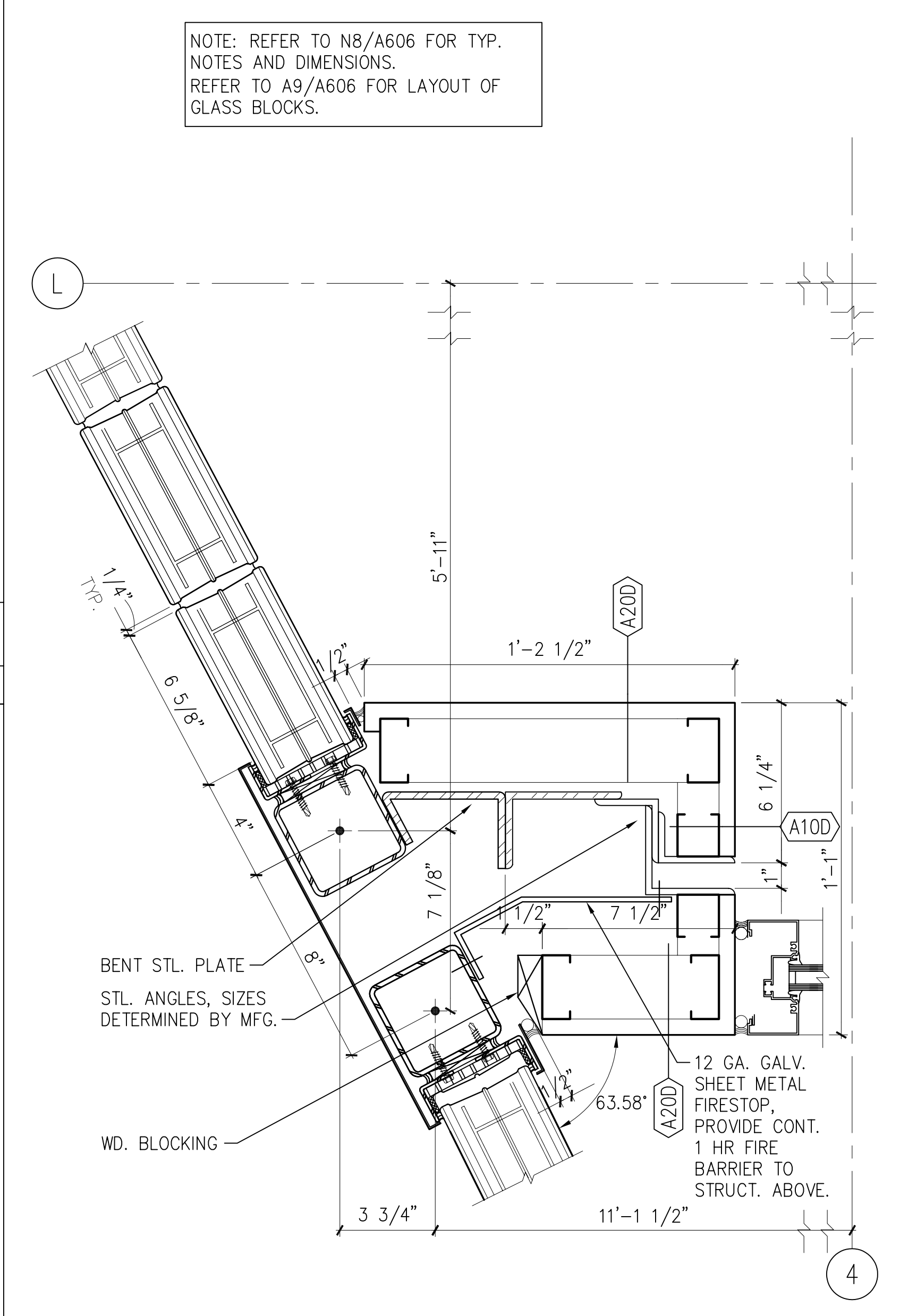
N13 TYPICAL SILL AT GLASS BLOCK  
3" = 1'-0" A8/A606



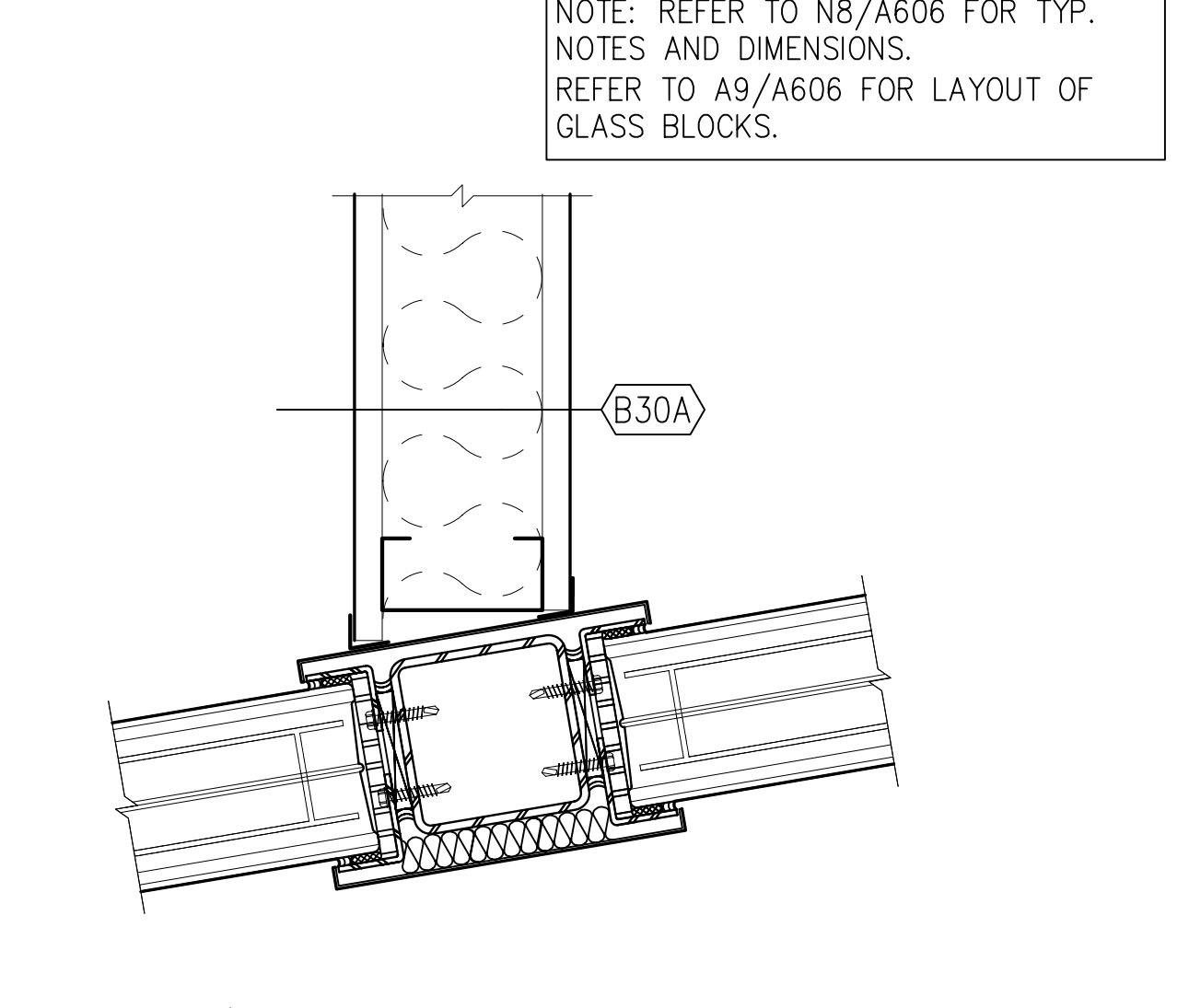
N15 GLASS BLK HEAD DTL.  
1 1/2" = 1'-0" A4/A303



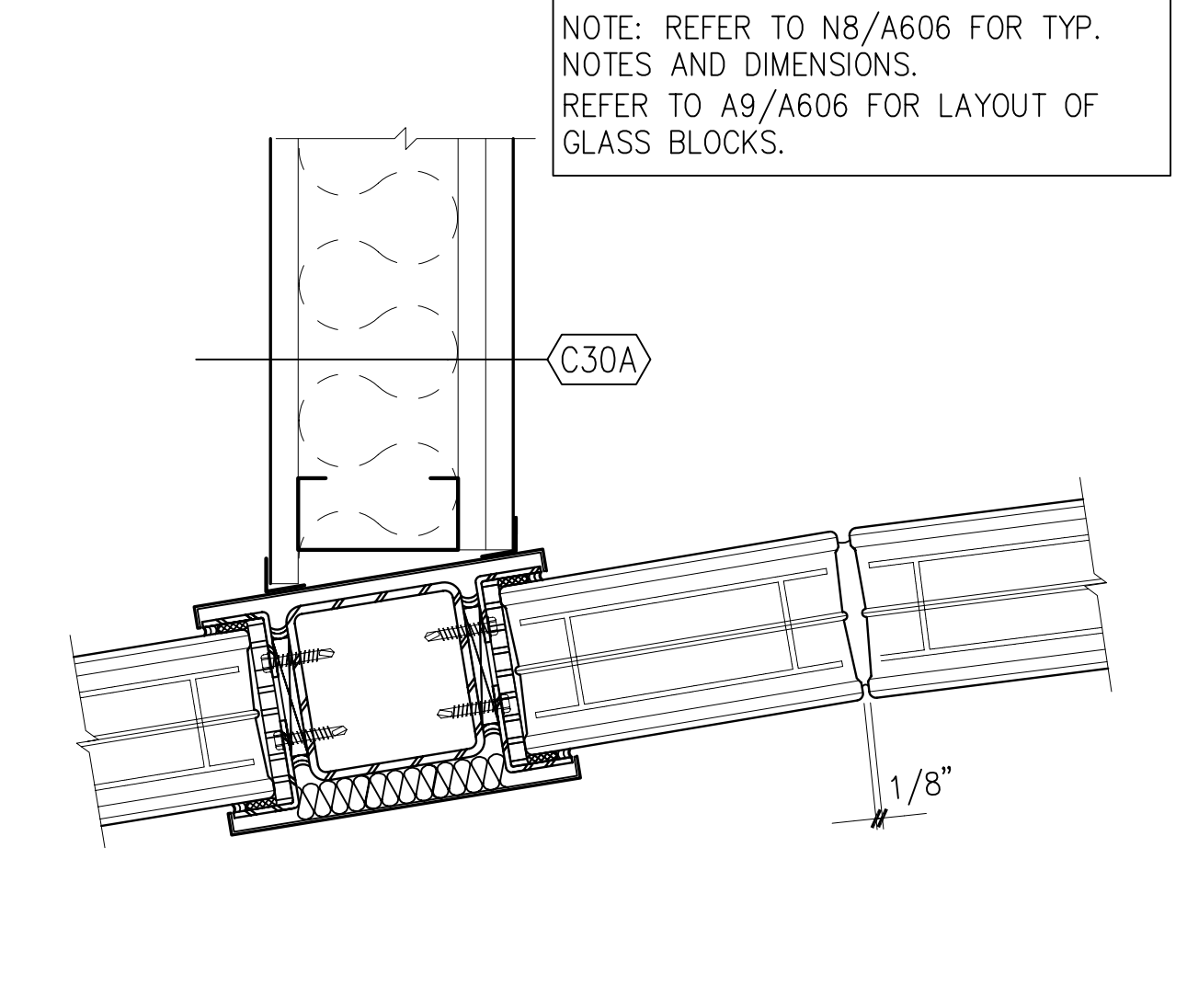
J1 GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



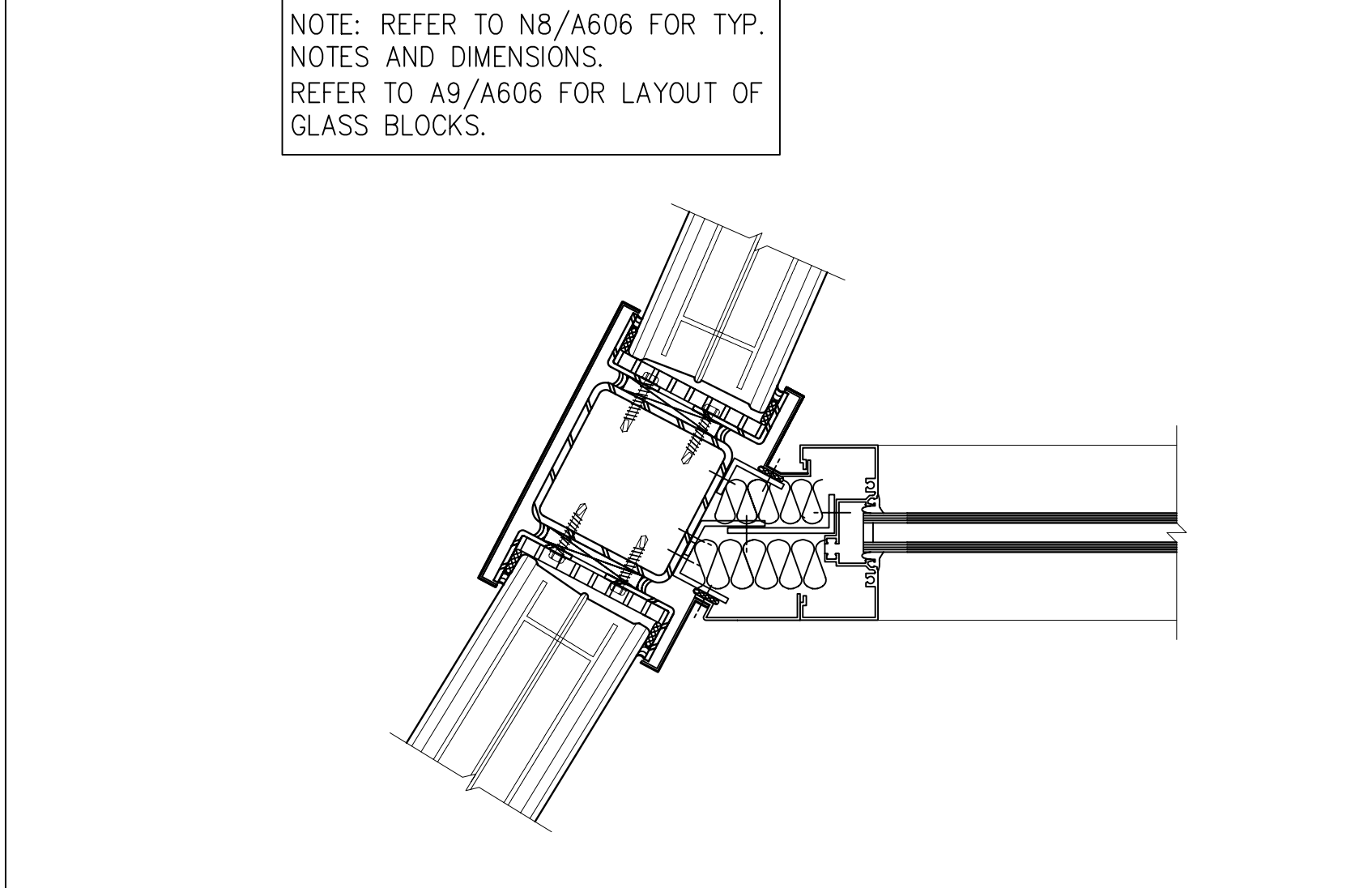
E4 GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



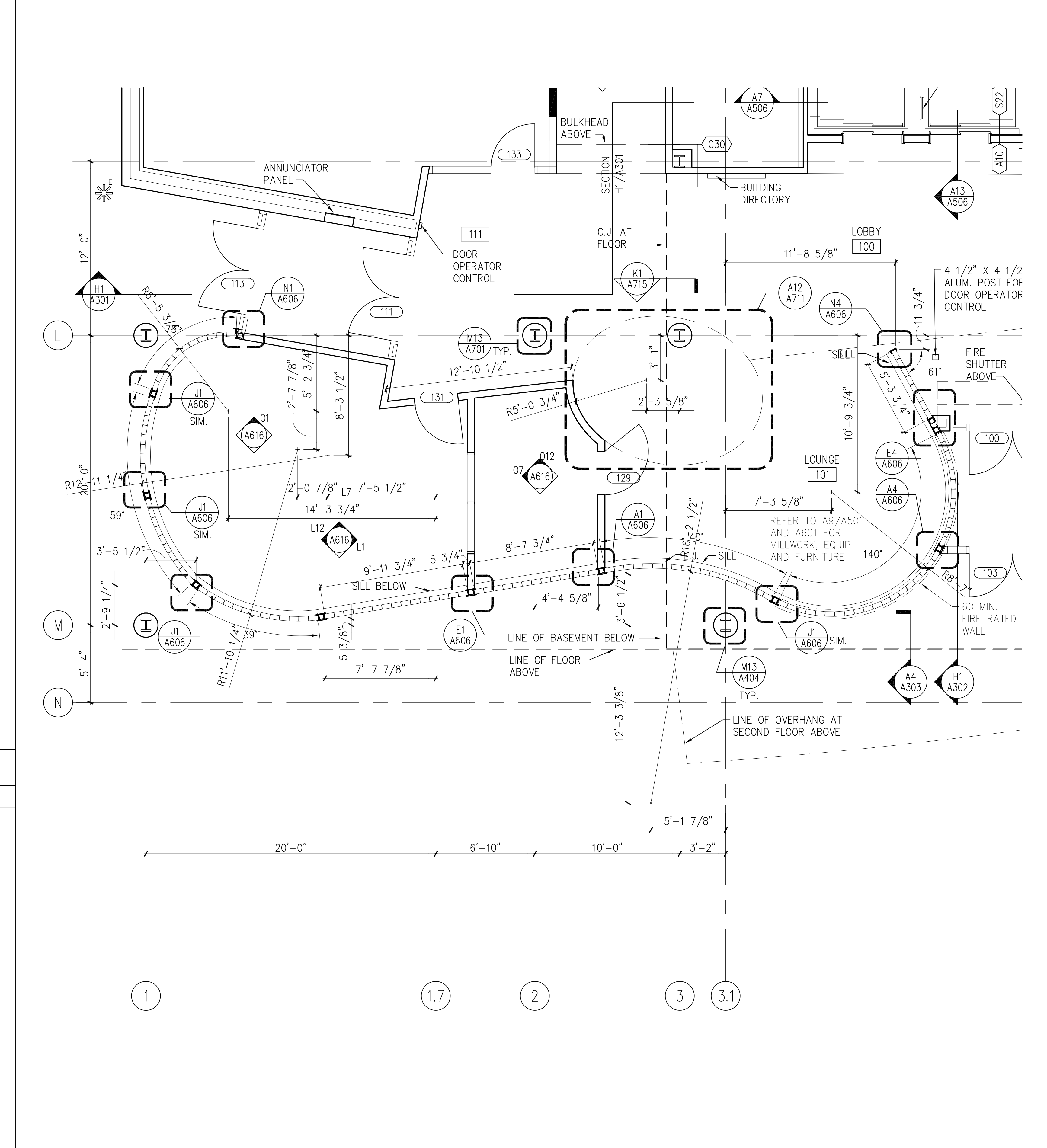
E1 GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



A1 GLASS BLOCK DETAIL  
3" = 1'-0" A8/A606



A4 GLASS BLOCK DETAIL  
3" = 1'-0" A9/A606



A9 LAYOUT PLAN  
1/4" = 1'-0" A101

GENERAL NOTES

- REFER TO DWG. A002 PARTITION TYPES.
- ALL PARTITIONS SHALL BE TYPE B30A U.N.O.
- WALLS BETWEEN FACULTY OFFICES SHALL BE TYPE B30AB, U.N.O.
- ALL PARTITIONS AT INTERIOR FACE OF EXTERIOR WALLS SHALL BE TYPE A20, U.N.O.
- REFER TO ENLARGED PLANS FOR PARTITION TYPES AND DIMENSIONS WITHIN ENLARGED PLAN AREAS.
- REFER TO A800 SERIES DWGS. FOR REFLECTED CEILING PLANS.
- REFER TO DWG. A900 FOR DOOR SCHEDULE.
- REFER TO DWG. A902 FOR TYP. DIM. FOR LOCATION OF DOORS AND DOOR RECESSES.
- REFER TO ID100 SERIES DWGS AND A624 FOR FLOOR PATTERNS.
- REFER TO A600 SERIES AND ID100 SERIES DWGS FOR IDENTIFICATIONS AND LOCATIONS OF MARKER BOARDS AND TACK BOARDS.
- ALL EXTERIOR WINDOWS AND CURTAIN WALLS SHALL RECEIVE HORIZONTAL BLINDS EXCEPT AT ENTRANCE VESTIBULES AND STAIRS. WINDOWS RECEIVING ADDITIONAL ROLL SHADING ARE NOTED IN SERIES DRAWINGS. REF. DETAIL J12/A711.
- CENTER PARTITIONS ON CENTERLINE OF COLUMN LINE OR PIER, UNLESS OTHERWISE INDICATED.
- PROVIDE 2 HR FIRE RATED FIREPROOFING FOR SUPPORTING STRUCTURE OF STAIRS, ELEVATOR AND MECHANICAL SHAFTS. REFER TO LS104, LS105, AND LS106 FOR EXTENT OF FIREPROOFING.

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

PROJECT NO. 34499.01  
DATE: 2/20/02  
A606  
SHEET X OF XX

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
DATE

GENERAL NOTES

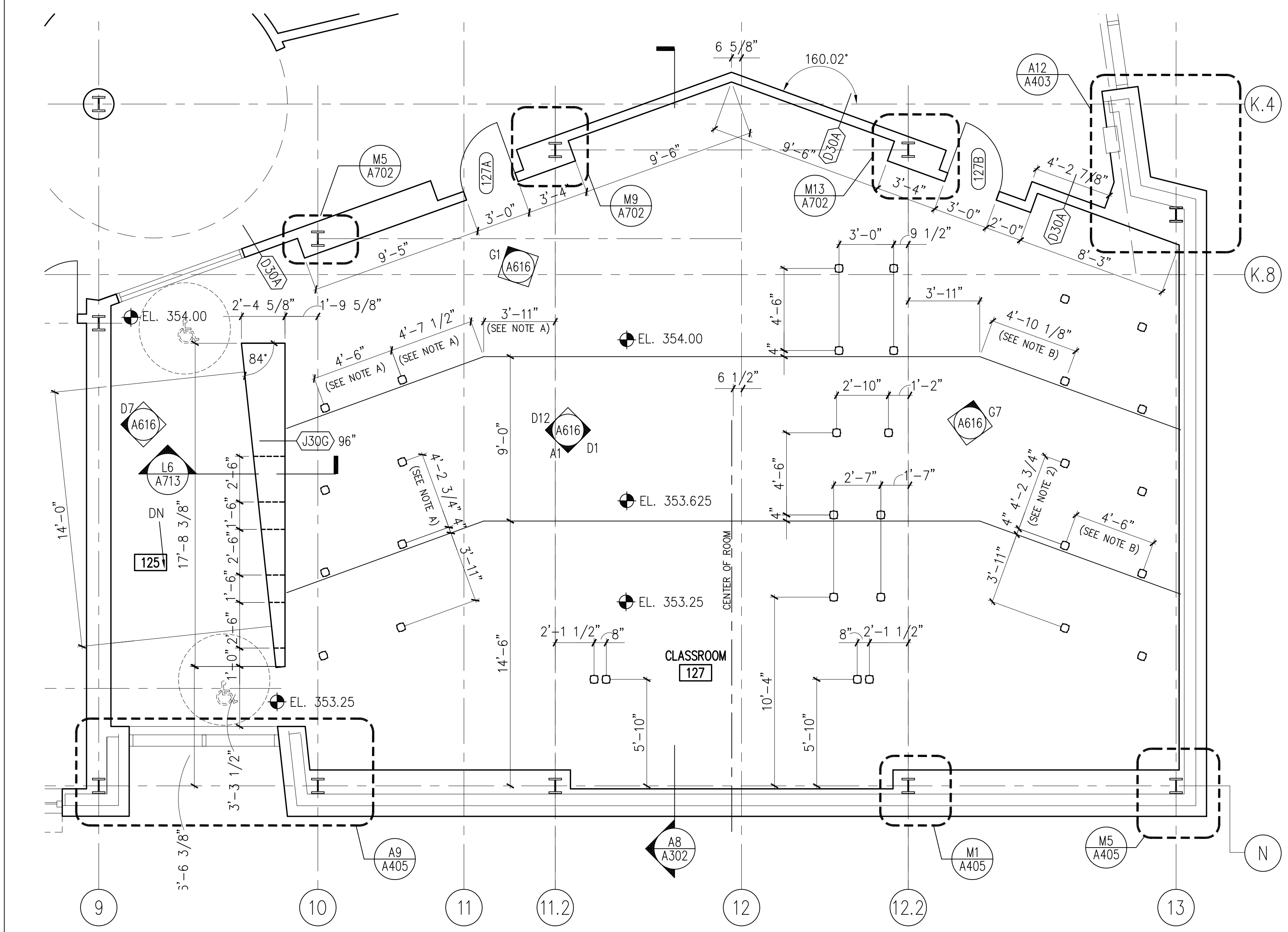
- REFER TO DWG. A002 PARTITION TYPES.  
A. ALL PARTITIONS SHALL BE TYPE B30A U.N.O.  
B. WALLS BETWEEN FACULTY OFFICES SHALL BE TYPE B30AB, U.N.O.  
C. ALL PARTITIONS AT INTERIOR FACE OF EXTERIOR WALLS SHALL BE TYPE A20, U.N.O.
- REFER TO ENLARGED PLANS FOR PARTITION TYPES AND DIMENSIONS WITHIN ENLARGED PLAN AREAS.
- REFER TO A800 SERIES DWGS. FOR REFLECTED CEILING PLANS.
- REFER TO DWG. A900 FOR DOOR SCHEDULE.
- REFER TO DWG. A902 FOR TYP. DIM. FOR LOCATION OF DOORS AND DOOR RECESSES.
- REFER TO ID100 SERIES DWGS AND A624 FOR FLOOR PATTERNS.
- REFER TO A600 SERIES AND ID100 SERIES DWGS FOR IDENTIFICATIONS AND LOCATIONS OF MARKER BOARDS AND TACK BOARDS.
- ALL EXTERIOR WINDOWS AND CURTAIN WALLS SHALL RECEIVE HORIZONTAL BLINDS EXCEPT AT ENTRANCE VESTIBULES AND STAIRS. WINDOWS RECEIVING ADDITIONAL ROLL SHADING ARE NOTED IN SERIES DRAWINGS. REF. DETAIL J12/A711.
- CENTER PARTITIONS ON CENTERLINE OF COLUMN LINE OR PIER, UNLESS OTHERWISE INDICATED.
- PROVIDE 2 HR FIRE RATED FIREPROOFING FOR SUPPORTING STRUCTURE OF STAIRS, ELEVATOR AND MECHANICAL SHAFTS. REFER TO LS104, LS105, AND LS106 FOR EXTENT OF FIREPROOFING.

□ = FLOOR BOXES

J9 LOCATION OF SYSTEMS FURNITURE

1 1/2" = 1'-0"

A601, A602, A9/A607



NOTE A: DIMENSIONS TYPICAL FOR 4 ROWS OF FLOOR BOXES ON LEFT SIDE OF ROOM.

NOTE B: DIMENSIONS TYPICAL FOR 5 ROWS OF FLOOR BOXES ON RIGHT SIDE OF ROOM.

A9 FIRST/SECOND FLOOR PLAN DETAIL

1/4" = 1'-0"

A101, A102

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Plan Details

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL

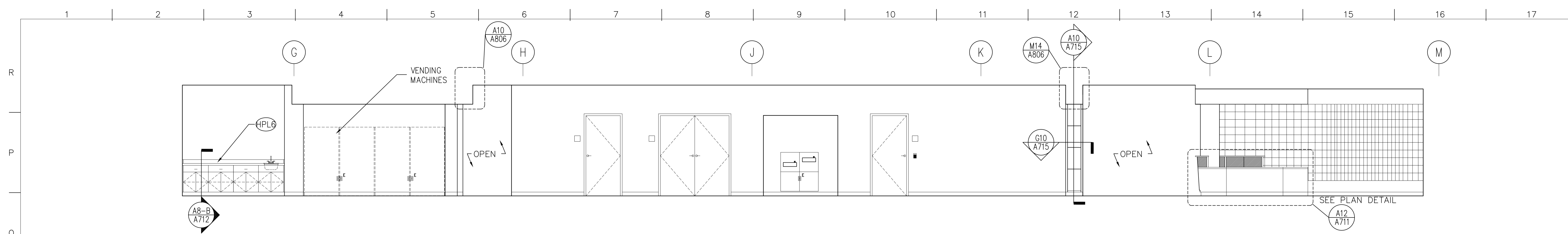
TITLE DATE

PROJECT NO. 34495.01  
DATE: 2/20/02

A607

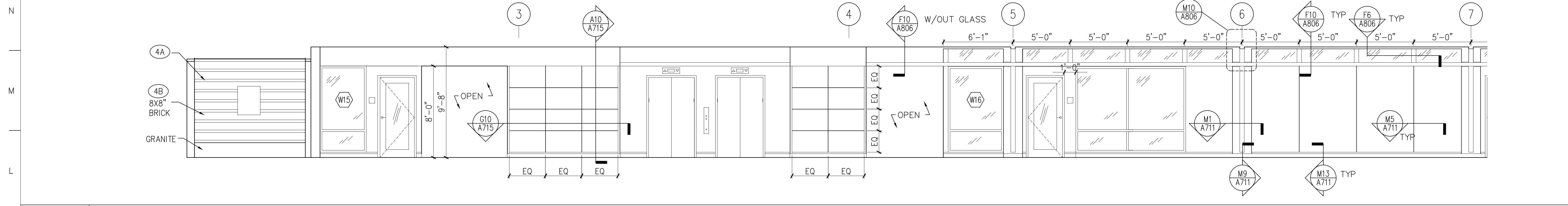
SHEET X OF XX

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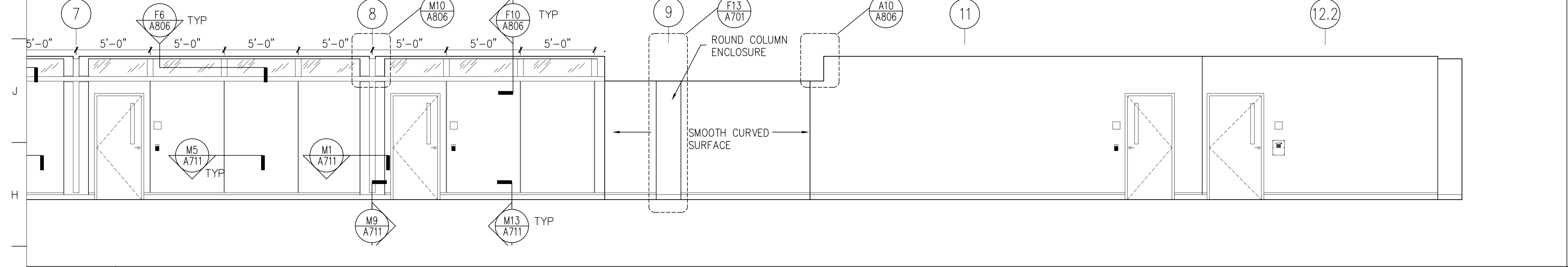
O1 FIRST FLOOR NORTH-SOUTH CORRIDOR (EAST FACE)

1/4"=1'-0" Lounge 114 / Corridor 112



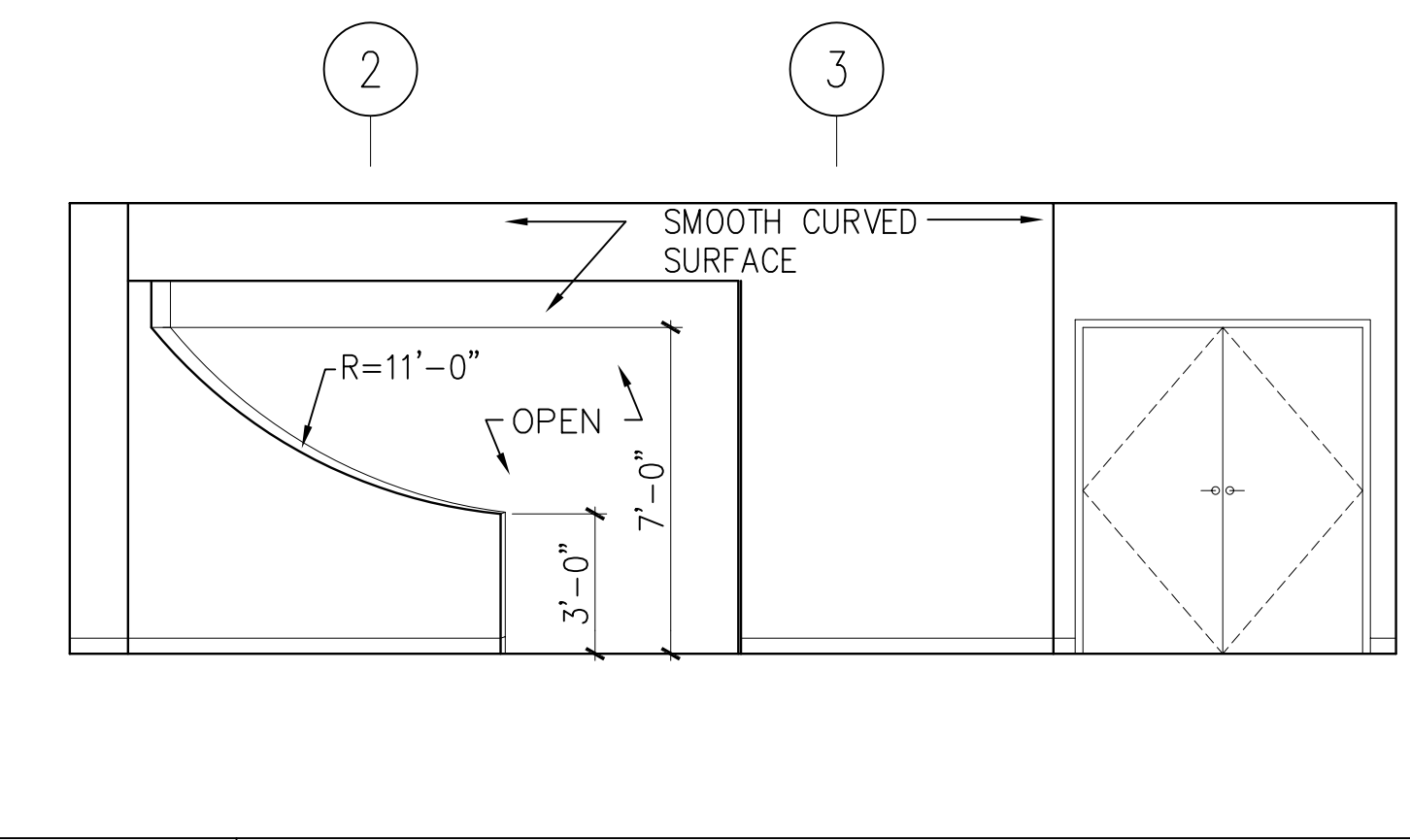
K1 FIRST FLOOR EAST-WEST CORRIDOR ELEVATION (NORTH FACE)

1/4"=1'-0" Lobby 100 / Corridor 105



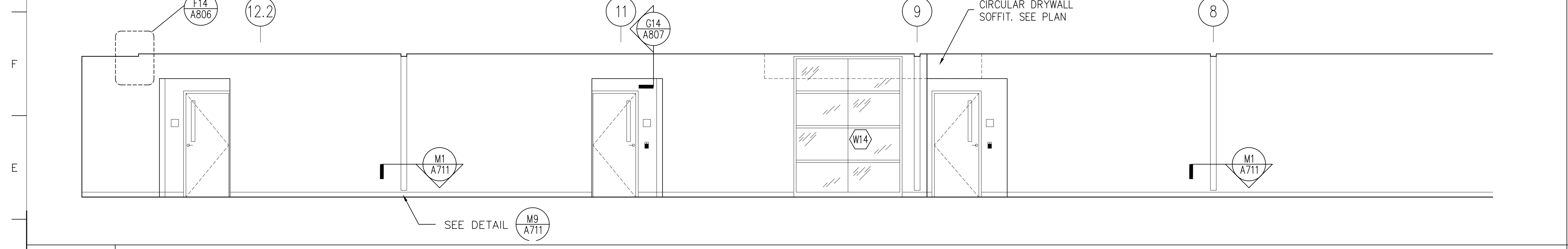
G1 FIRST FLOOR EAST-WEST CORRIDOR ELEVATION (NORTH FACE)

1/4"=1'-0" Corridor 105 / 107 / Lounge 109



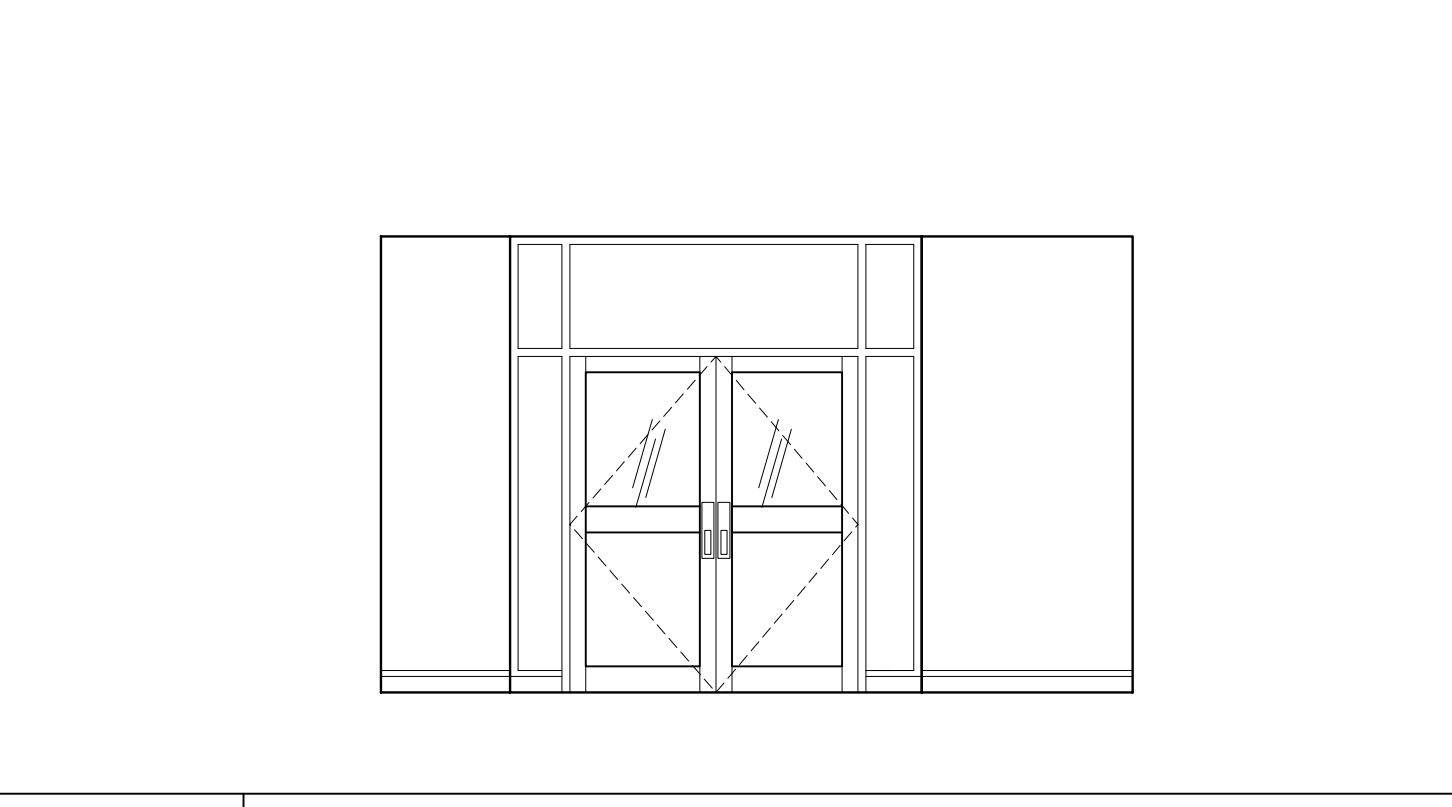
G14 N-S CORRIDOR (NORTH FACE)

1/4"=1'-0" Looking at lounge 114



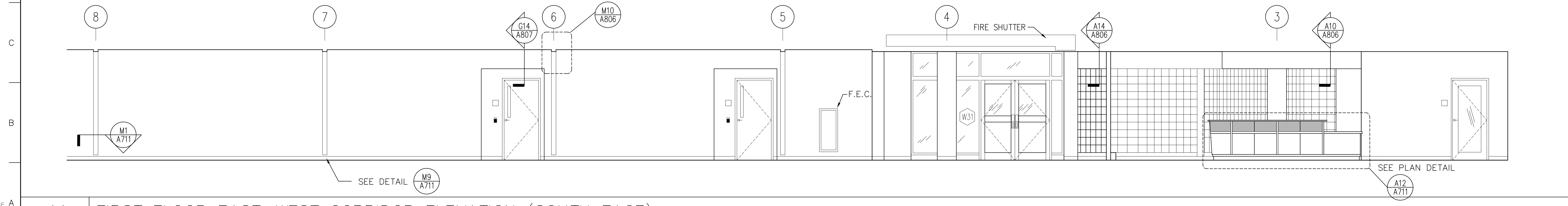
D1 FIRST FLOOR EAST-WEST CORRIDOR ELEVATION (SOUTH FACE)

1/4"=1'-0" Lounge 109 / Corridor 107 / 105



D14 W. WALL - LOBBY

1/4"=1'-0" LOBBY 100 / 111



A1 FIRST FLOOR EAST-WEST CORRIDOR ELEVATION (SOUTH FACE)

1/4"=1'-0" Corridor 105 / Lobby 100

MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE. SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4C HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)

- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING

- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM

- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8D ALUMINUM CURTAIN WALL
- 8F HOLLOW METAL FRAME
- 8G HOLLOW METAL DOOR
- 8H WOOD DOOR
- 8J ROOF HATCH
- 8K TEMPERED GLASS (thickness)
- 8L INSULATING GLASS UNIT (Ref. to Schedule)

- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9J SHEET VINYL FLOORING
- 9K RESILIENT BASE
- 9L PAINT (Color-Ref. to Schedule)
- 9M EPOXY PAINT (Color-Ref. to Schedule)

- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)

- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING

- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

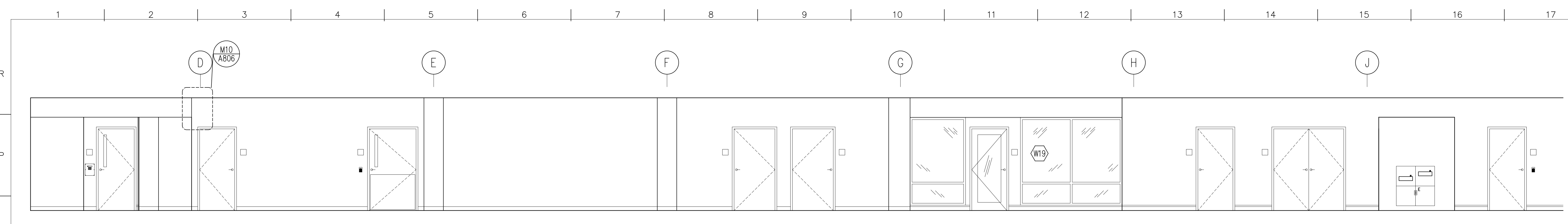
GENERAL NOTES

1. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.
2. REFER TO A13/A612, D13/A612, AND A910 FOR SIGNAGE DETAILS.

no.	revisions/submissions	date

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 MONTGOMERY COLLEGE APPROVAL  
 PROJECT MANAGER DATE TITLE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE  
 Interior Elevations  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-977/98-318  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318  
 PROJECT NO. 34495.01  
 DATE: 2/20/02  
 A611  
 SHEET X OF XX





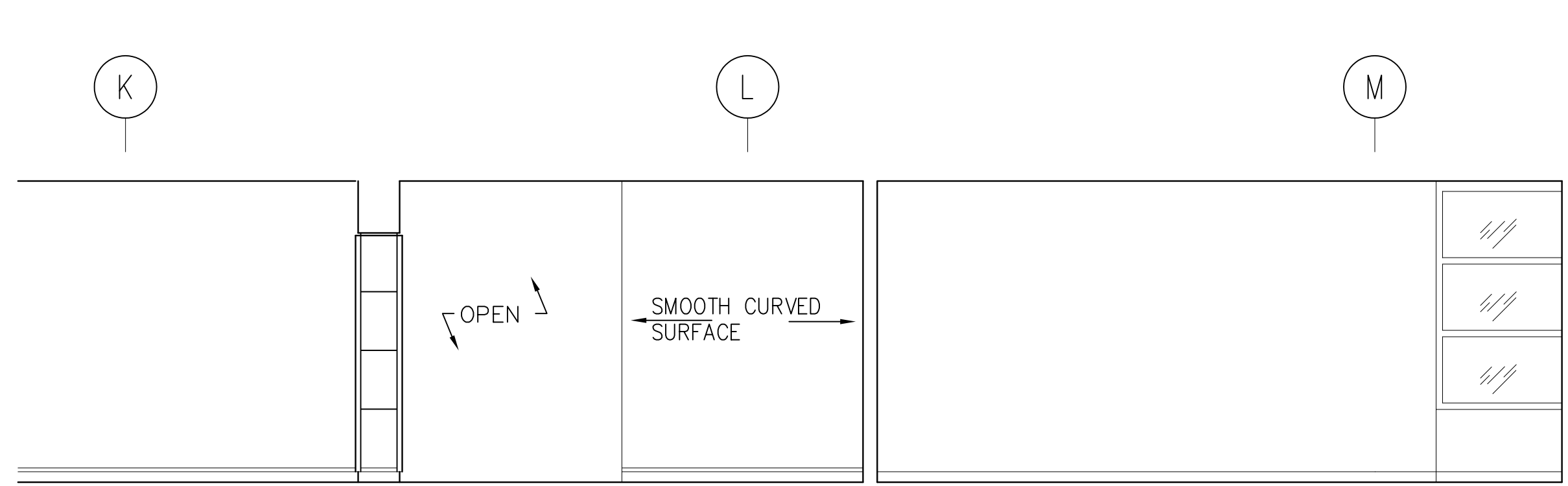
**O1 SECOND FLOOR NORTH-SOUTH CORRIDOR ELEVATION (EAST FACE)**

1/4"=1'-0" Corridor 216 / 214 / 212



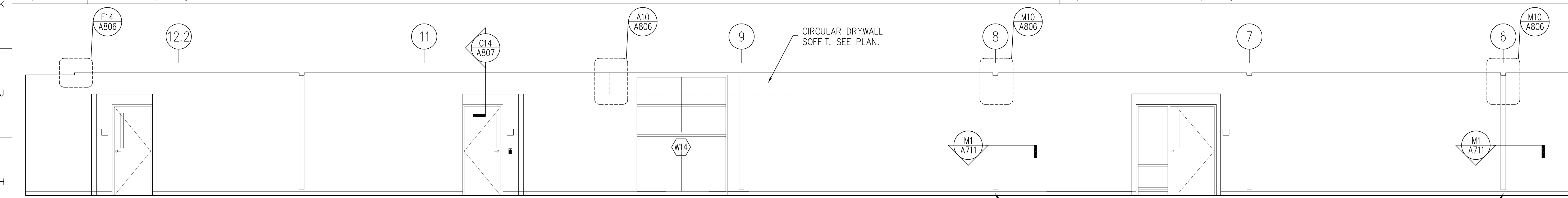
**K1 SECOND FLOOR EAST-WEST CORRIDOR ELEVATION (SOUTH FACE)**

1/4"=1'-0" Corridor 205 / Lobby 200



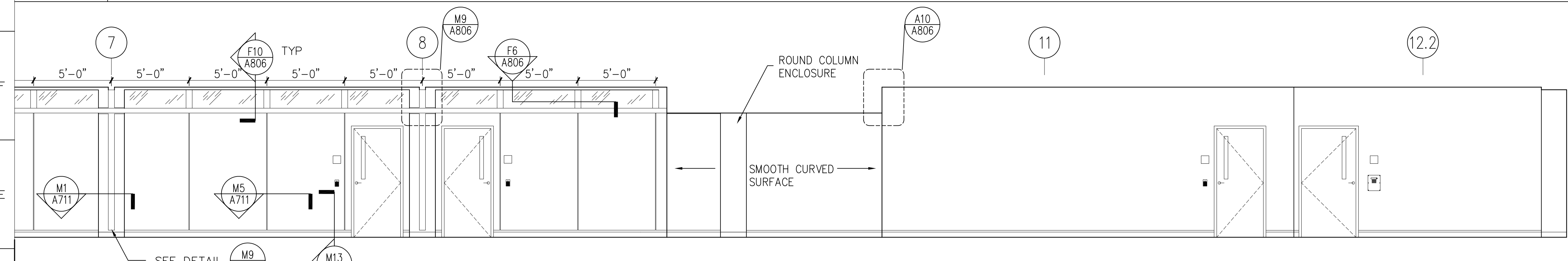
**K14 LOUNGE 201 SOUTH ELEVATION**

1/4"=1'-0" Corridor 205 / Lobby 200



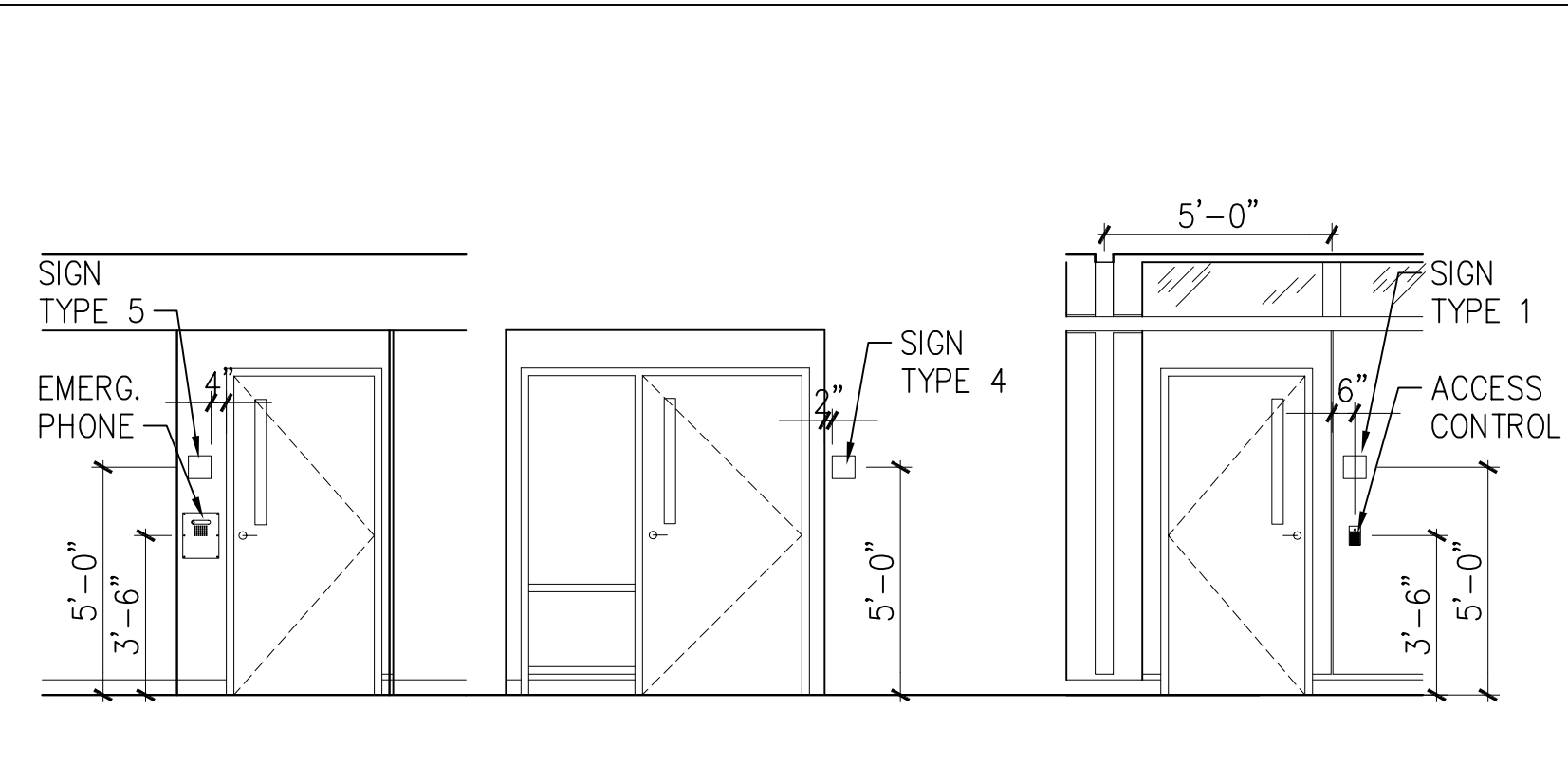
**G1 SECOND FLOOR EAST-WEST CORRIDOR ELEVATION (SOUTH FACE)**

1/4"=1'-0" Lounge 209 / Corridor 207 / 205



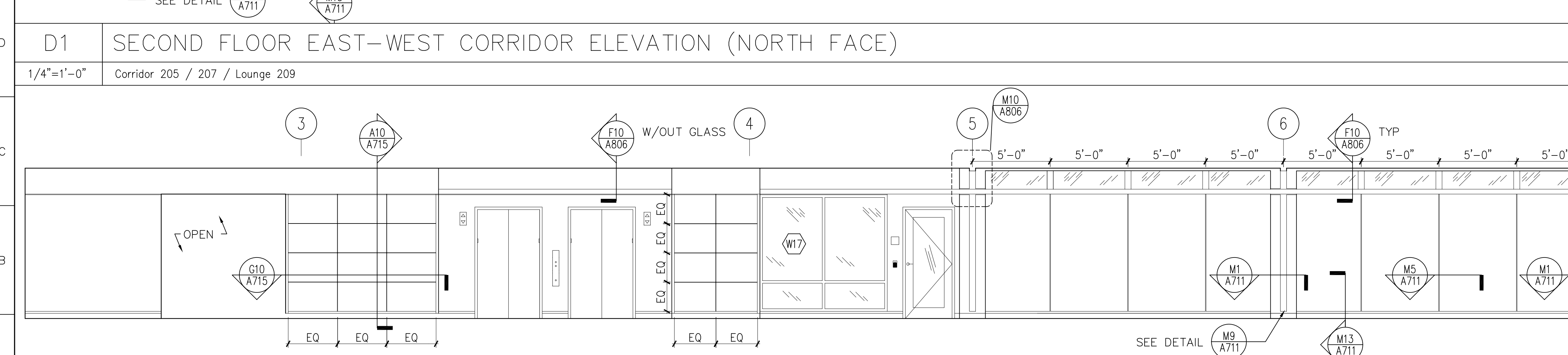
**D1 SECOND FLOOR EAST-WEST CORRIDOR ELEVATION (NORTH FACE)**

1/4"=1'-0" Corridor 205 / 207 / Lounge 209



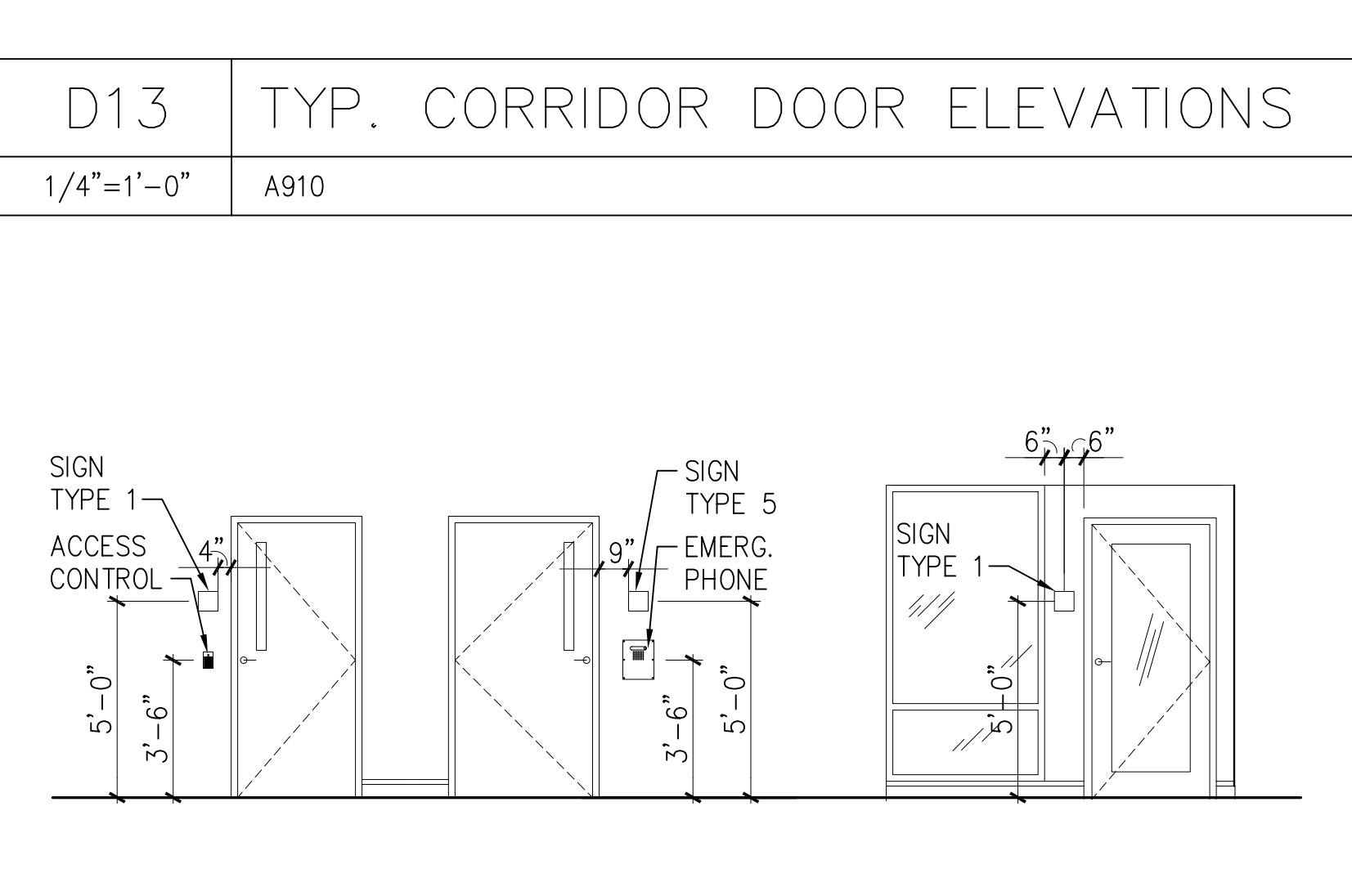
**D13 TYP. CORRIDOR DOOR ELEVATIONS**

1/4"=1'-0" A910



**A1 SECOND FLOOR EAST-WEST CORRIDOR ELEVATION (NORTH FACE)**

1/4"=1'-0" Lobby 200 / Corridor 205



**A13 TYP. CORRIDOR DOOR ELEVATIONS**

1/4"=1'-0" A910

**MATERIAL KEYED NOTES**

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE. SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4C HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8D ALUMINUM CURTAIN WALL
- 8F HOLLOW METAL FRAME
- 8C HOLLOW METAL DOOR
- 8H WOOD DOOR
- 8J ROOF HATCH
- 8K TEMPERED GLASS (thickness)
- 8L INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9J SHEET VINYL FLOORING
- 9K RESILIENT BASE
- 9L PAINT (Color-Ref. to Schedule)
- 9M EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.

**GENERAL NOTES**

1. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.
2. REFER TO A13/A612, D13/A612, AND A910 FOR SIGNAGE DETAILS.

no.	revisions/submissions	date

PROJECT NO. 14499.01  
 DATE: 2/20/02  
**A612**  
 SHEET X OF XX

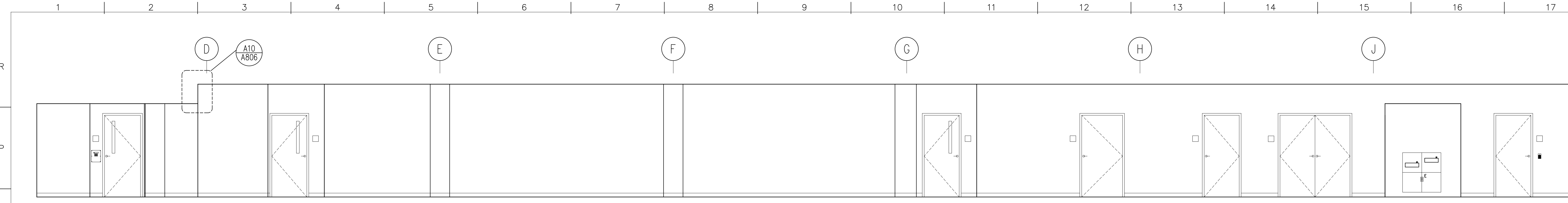
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Interior Elevations**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

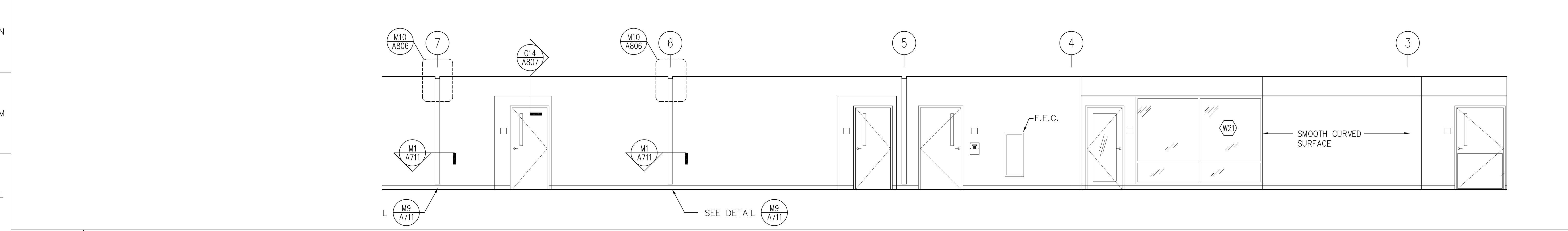
DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE

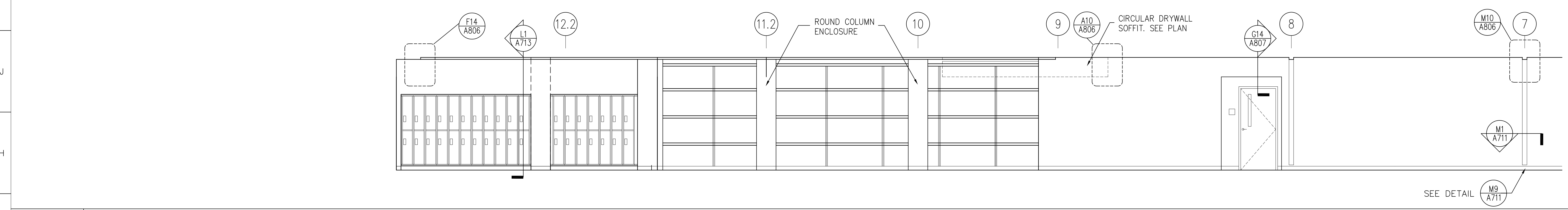
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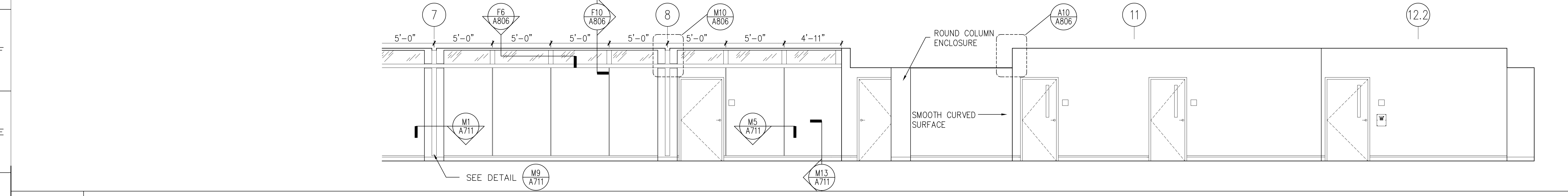
O1 THIRD FLOOR NORTH-SOUTH CORRIDOR (EAST FACE)  
 1/4"=1'-0" Corridor 316 / 314 / 312



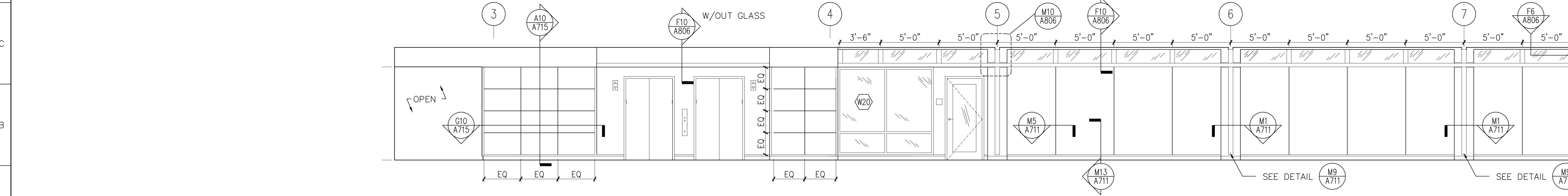
K1 THIRD FLOOR EAST-WEST CORRIDOR ELEVATION (SOUTH FACE)  
 1/4"=1'-0" Corridor 305 / Lobby 300



G1 THIRD FLOOR EAST-WEST CORRIDOR ELEVATION (SOUTH FACE)  
 1/4"=1'-0" Lounge 309 / Corridor 207 / 205



D1 THIRD FLOOR EAST-WEST CORRIDOR ELEVATION (NORTH FACE)  
 1/4"=1'-0" Corridor 305 / 307 / Lounge 309



A1 THIRD FLOOR EAST-WEST CORRIDOR ELEVATION (NORTH FACE)  
 1/4"=1'-0" Lobby 300 / Corridor 305

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8F) HOLLOW METAL FRAME
- (8G) HOLLOW METAL DOOR
- (8H) WOOD DOOR
- (8J) ROOF HATCH
- (8K) TEMPERED GLASS (thickness)
- (8L) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9J) SHEET VINYL FLOORING
- (9K) RESILIENT BASE
- (9L) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

GENERAL NOTES

1. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.
2. REFER TO A13/A612, D13/A612, AND A910 FOR SIGNAGE DETAILS.

no.	revisions/submissions	date

PROJECT NO. 14499.01  
 DATE: 2/20/02  
**A613**  
 SHEET X OF XX

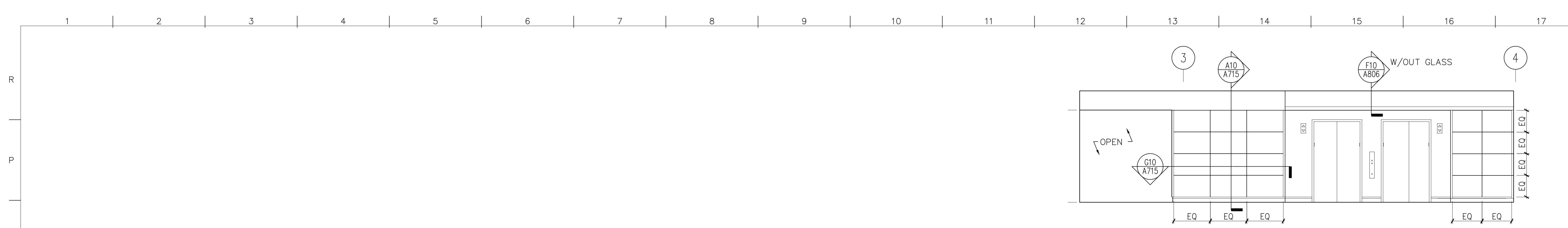
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

Interior Elevations  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

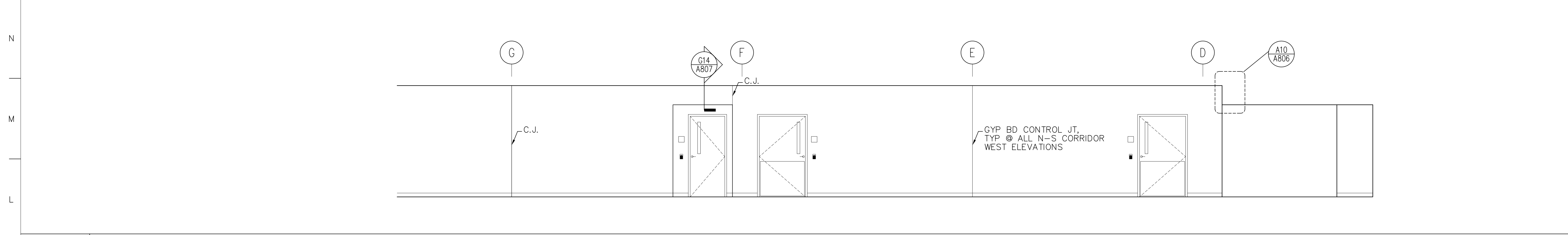
DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
 DATE

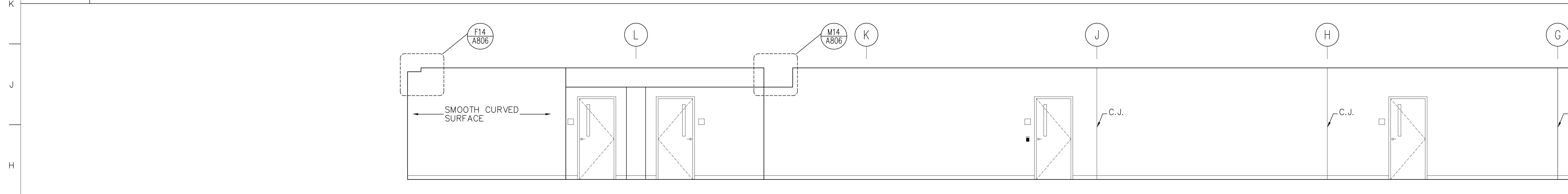
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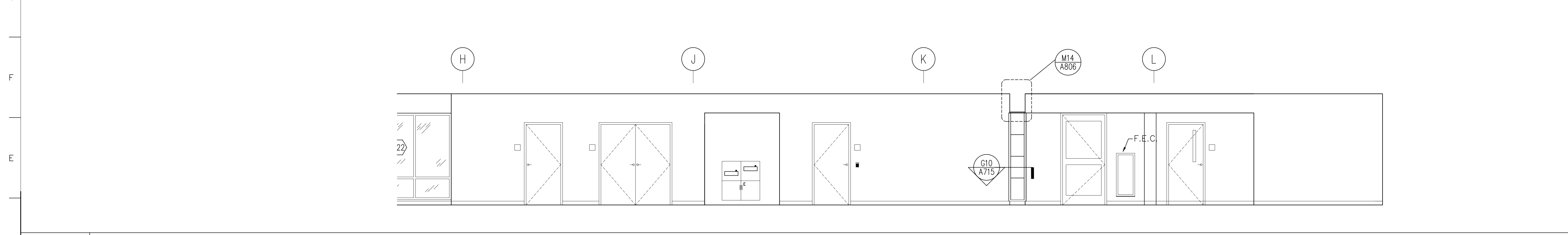
O1 LOBBY 400 (NORTH FACE)  
 1/4"=1'-0" Lobby 400



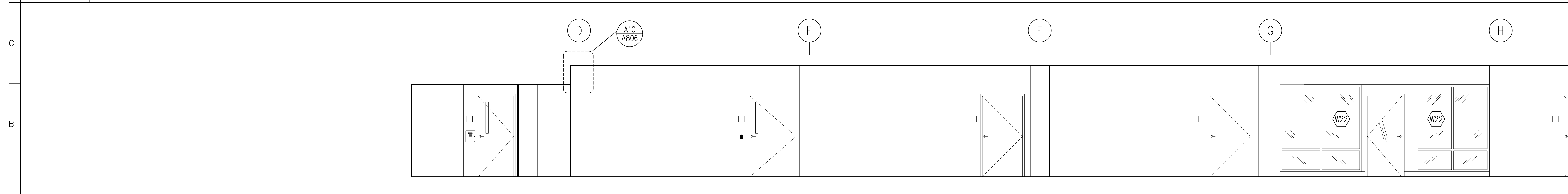
K1 FOURTH FLOOR NORTH-SOUTH CORRIDOR ELEVATION (WEST FACE)  
 1/4"=1'-0" Corridor 414 / 416 (similar at floors 2 & 3)



G1 FOURTH FLOOR NORTH-SOUTH CORRIDOR ELEVATION (WEST FACE)  
 1/4"=1'-0" Lounge 410 / Corridor 412 / 414



D1 FOURTH FLOOR NORTH-SOUTH CORRIDOR ELEVATION (EAST FACE)  
 1/4"=1'-0" Corridor 414 / 412



A1 FOURTH FLOOR NORTH-SOUTH CORRIDOR ELEVATION (EAST FACE)  
 1/4"=1'-0" Corridor 416 / 414

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8D) ALUMINUM CURTAIN WALL
- (8F) HOLLOW METAL FRAME
- (8C) HOLLOW METAL DOOR
- (8I) WOOD DOOR
- (8J) ROOF HATCH
- (8K) TEMPERED GLASS (thickness)
- (8L) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9A) SHEET VINYL FLOORING
- (9K) RESILIENT BASE
- (9L) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

GENERAL NOTES

1. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.
2. REFER TO A13/A612, D13/A612, AND A910 FOR SIGNAGE DETAILS.

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A614**  
 SHEET X OF XX

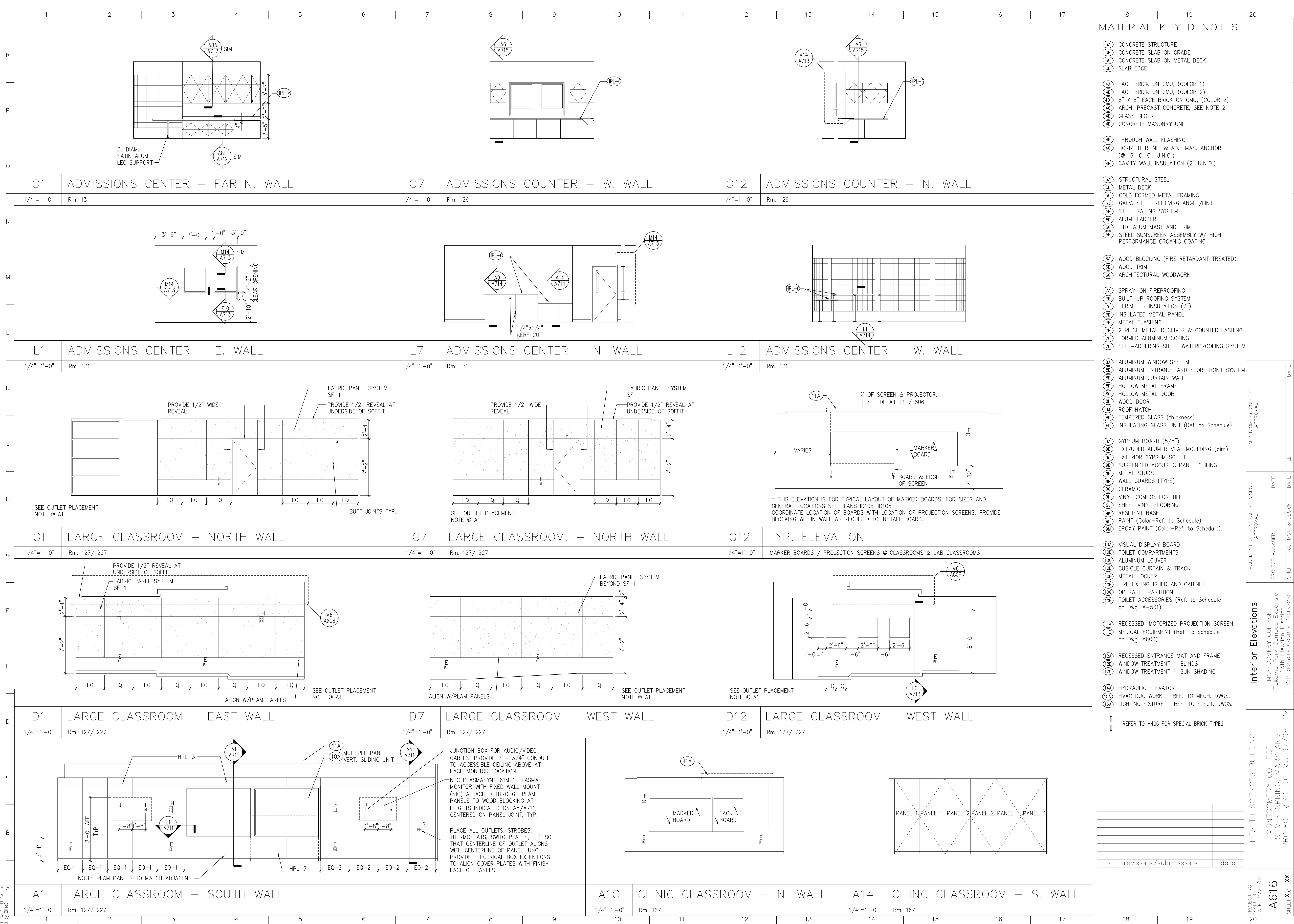
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

Interior Elevations  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE

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 2/20/02 10:45 AM  
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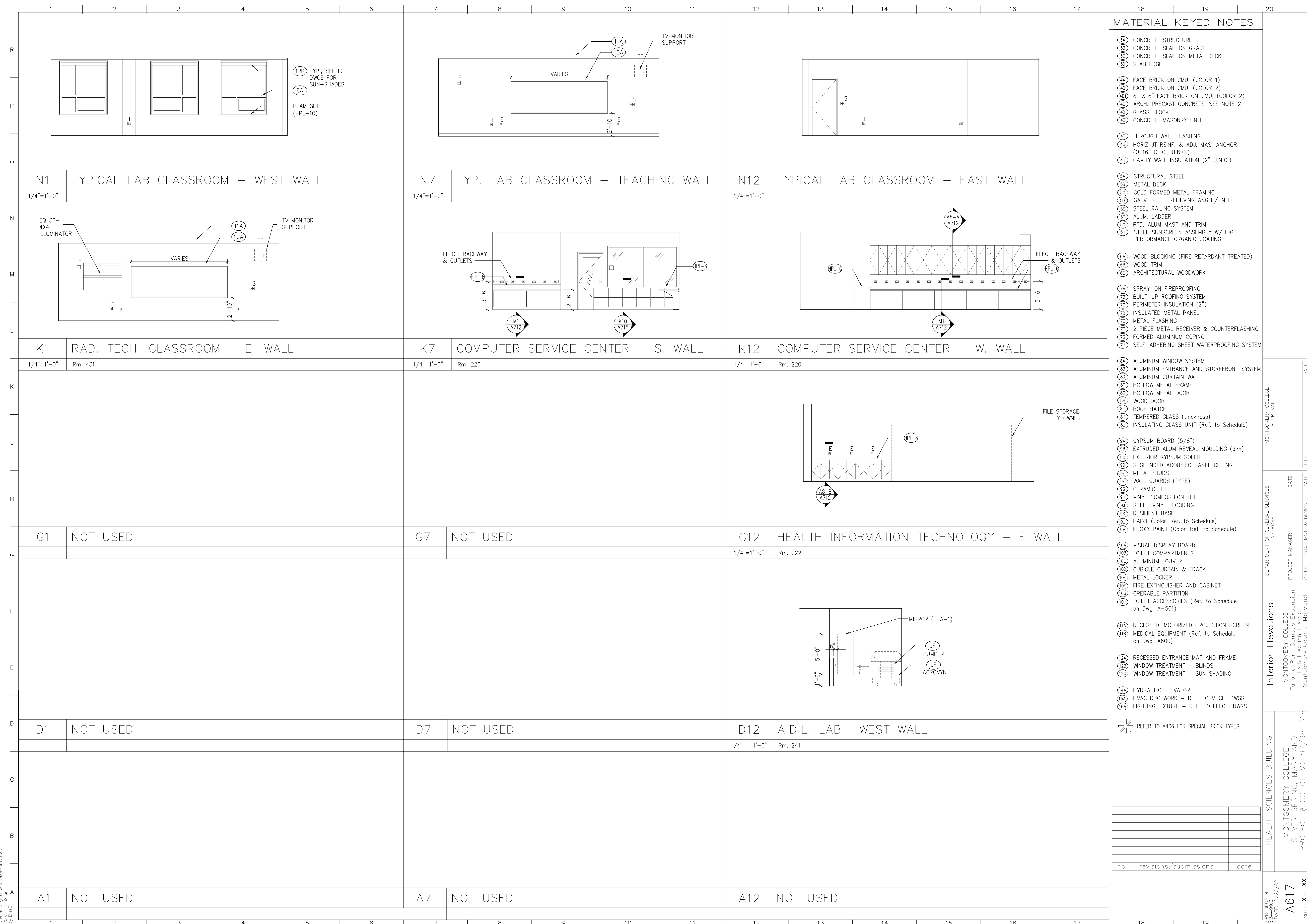
**MATERIAL KEYED NOTES**

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM. MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8I INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9J RESILIENT BASE
- 9K PAINT (Color-Ref. to Schedule)
- 9L EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A616**  
 SHEET XX OF XX  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 Interior Elevations  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

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 Plotted by Euseb



MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM

- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9J) RESILIENT BASE
- (9K) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)

- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING

- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

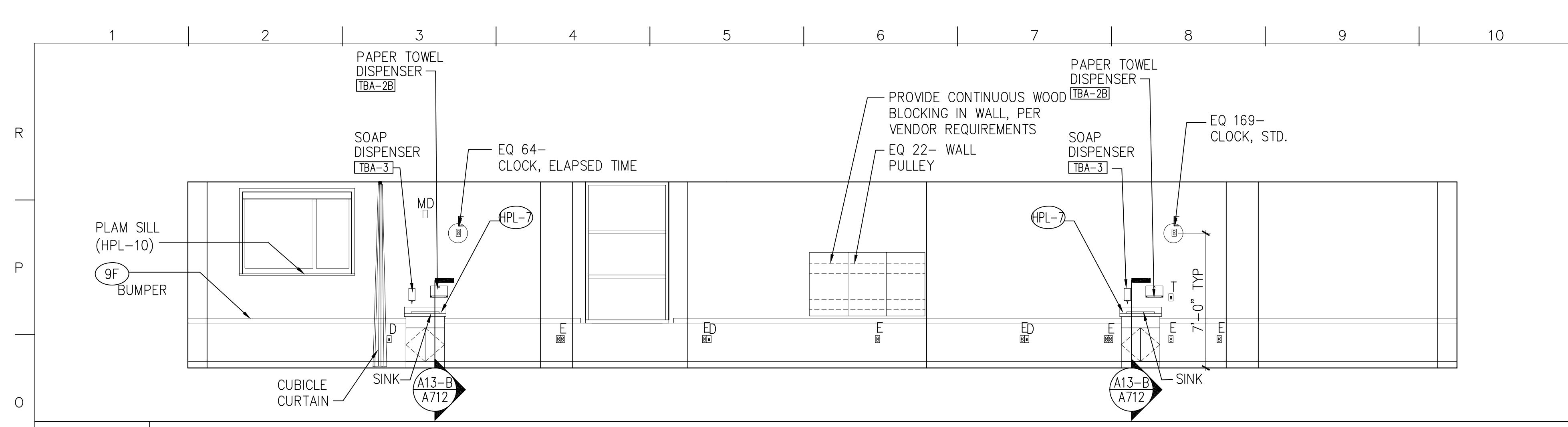
PROJECT NO. 34499.01  
 DATE: 2/20/02  
**A617**  
 SHEET 2 OF 2X

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

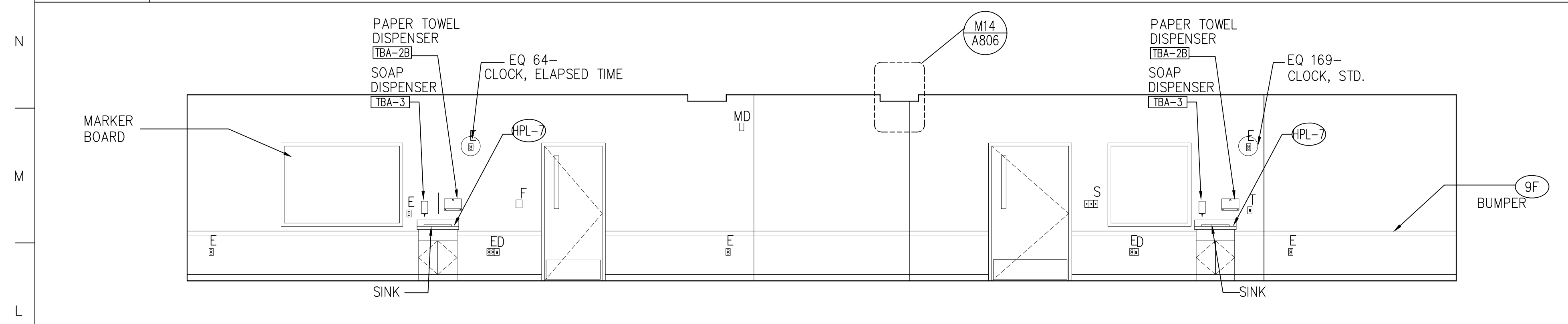
Interior Elevations  
 MONTGOMERY COLLEGE  
 Tokoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF - PROJ. MGT. & DESIGN \_\_\_\_\_ DATE \_\_\_\_\_

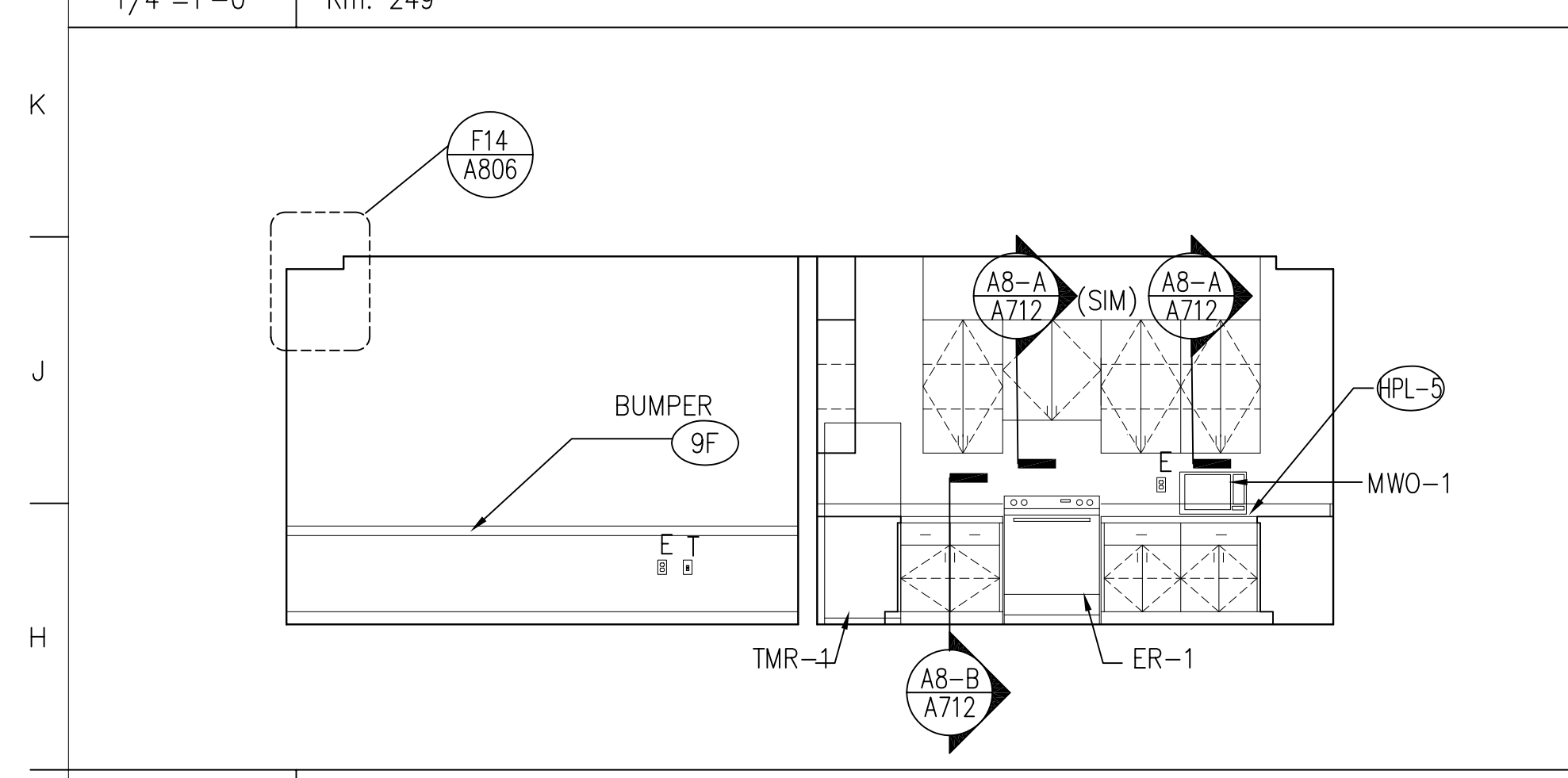
MONTGOMERY COLLEGE  
 APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF - PROJ. MGT. & DESIGN \_\_\_\_\_ DATE \_\_\_\_\_



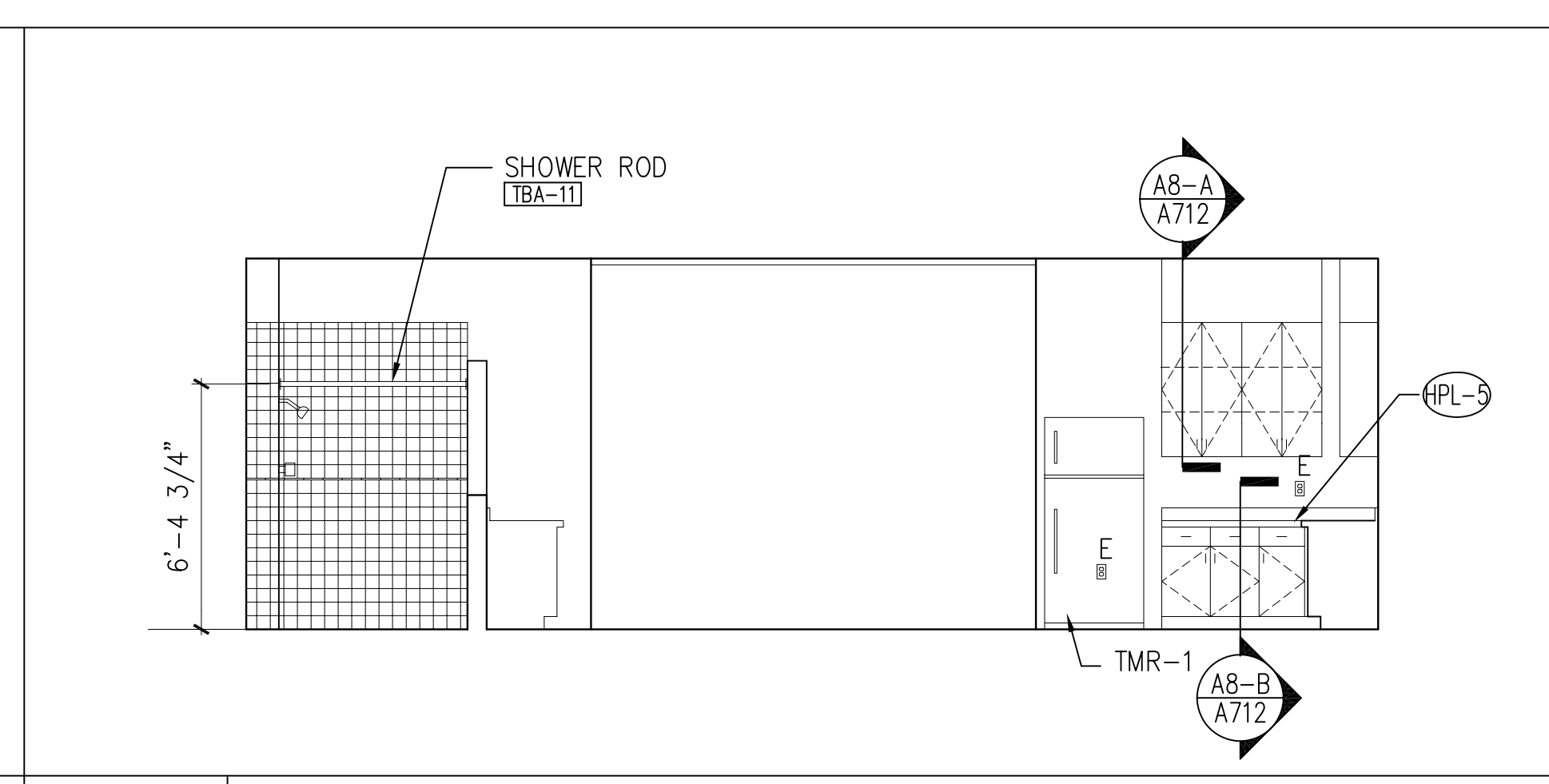
N1 P.T.A. LAB - NORTH WALL  
1/4"=1'-0" Rm. 249



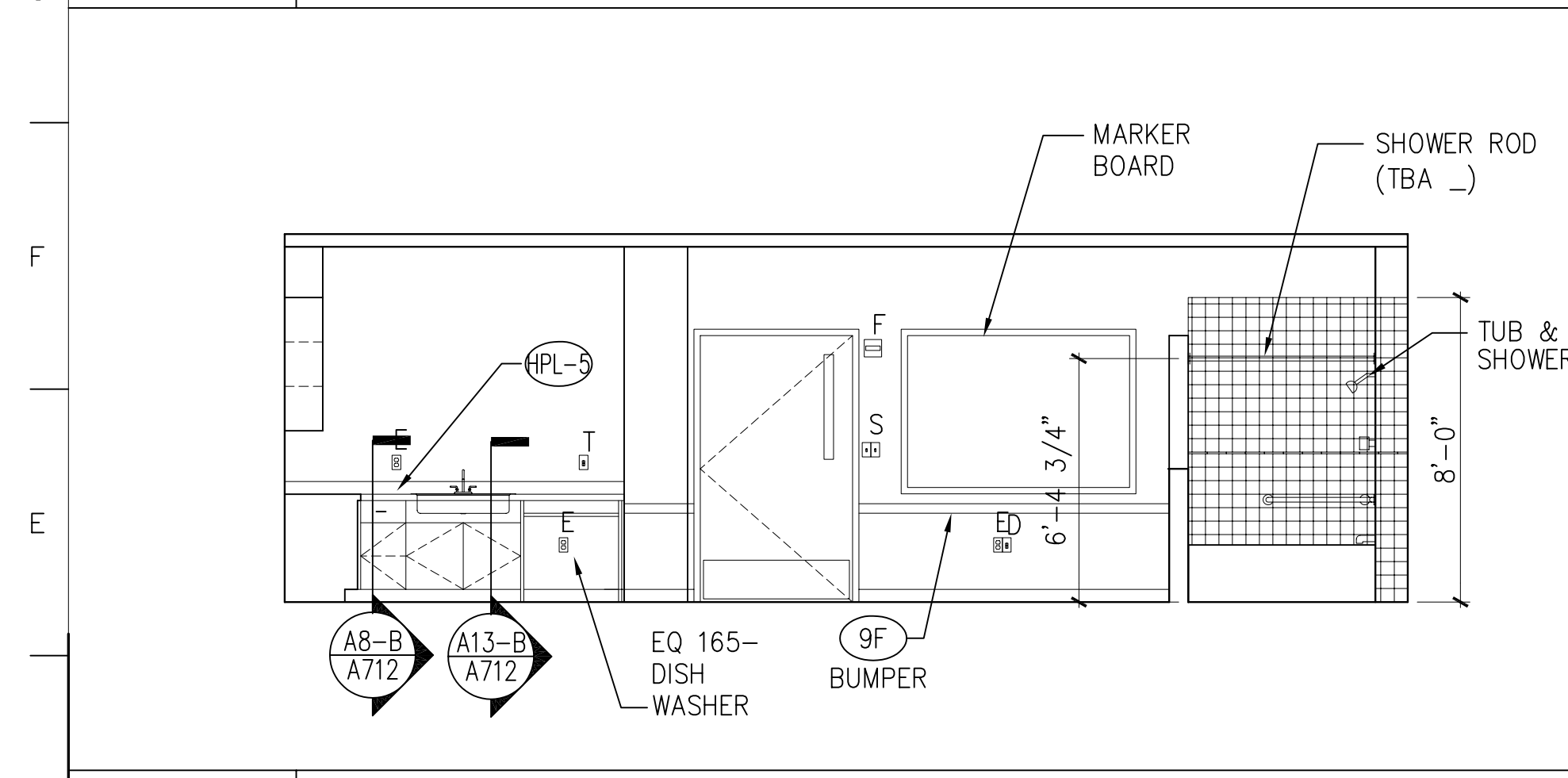
K1 P.T.A. LAB - SOUTH WALL  
1/4"=1'-0" Rm. 249



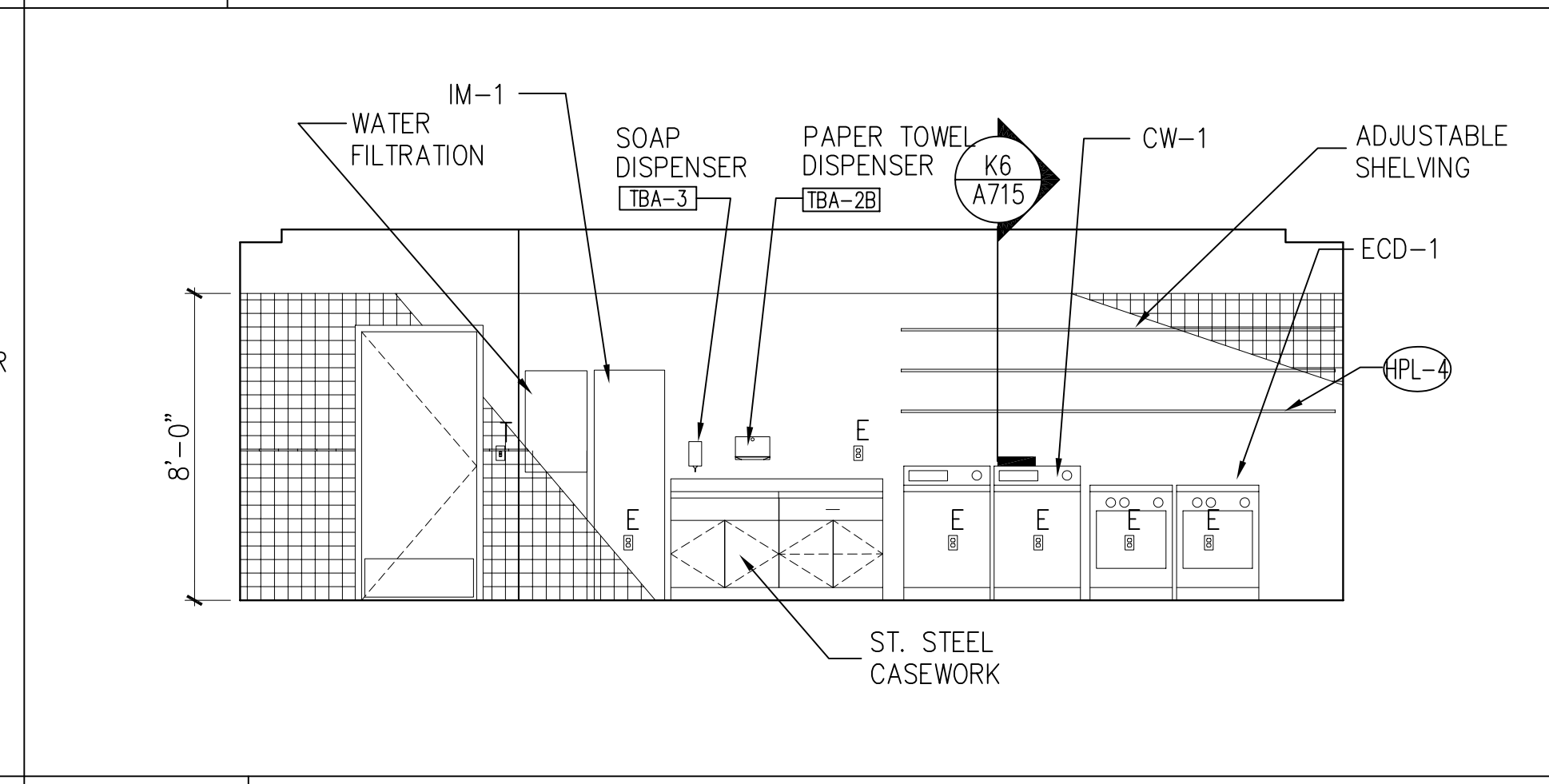
G1 A.D.L. LAB - NORTH WALL  
1/4"=1'-0" Rm. 237



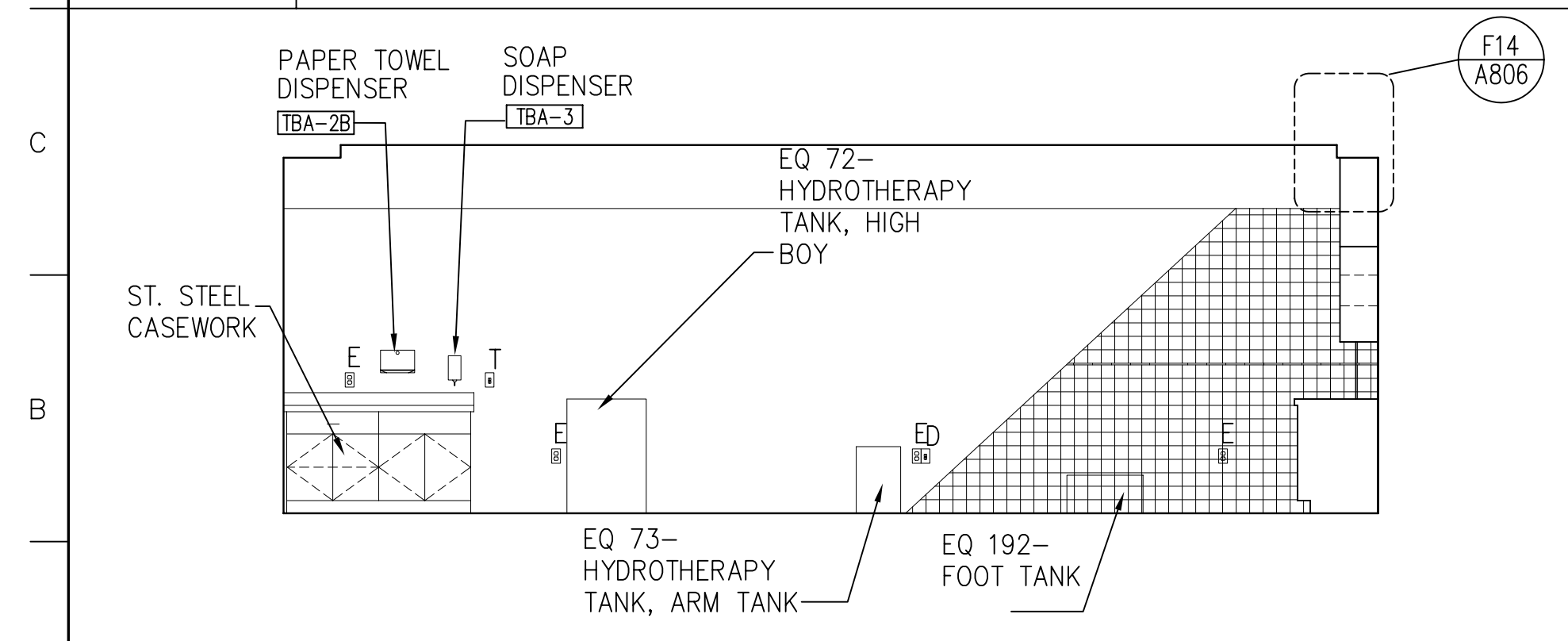
G6 A.D.L. LAB - WEST WALL  
1/4"=1'-0" Rm. 237



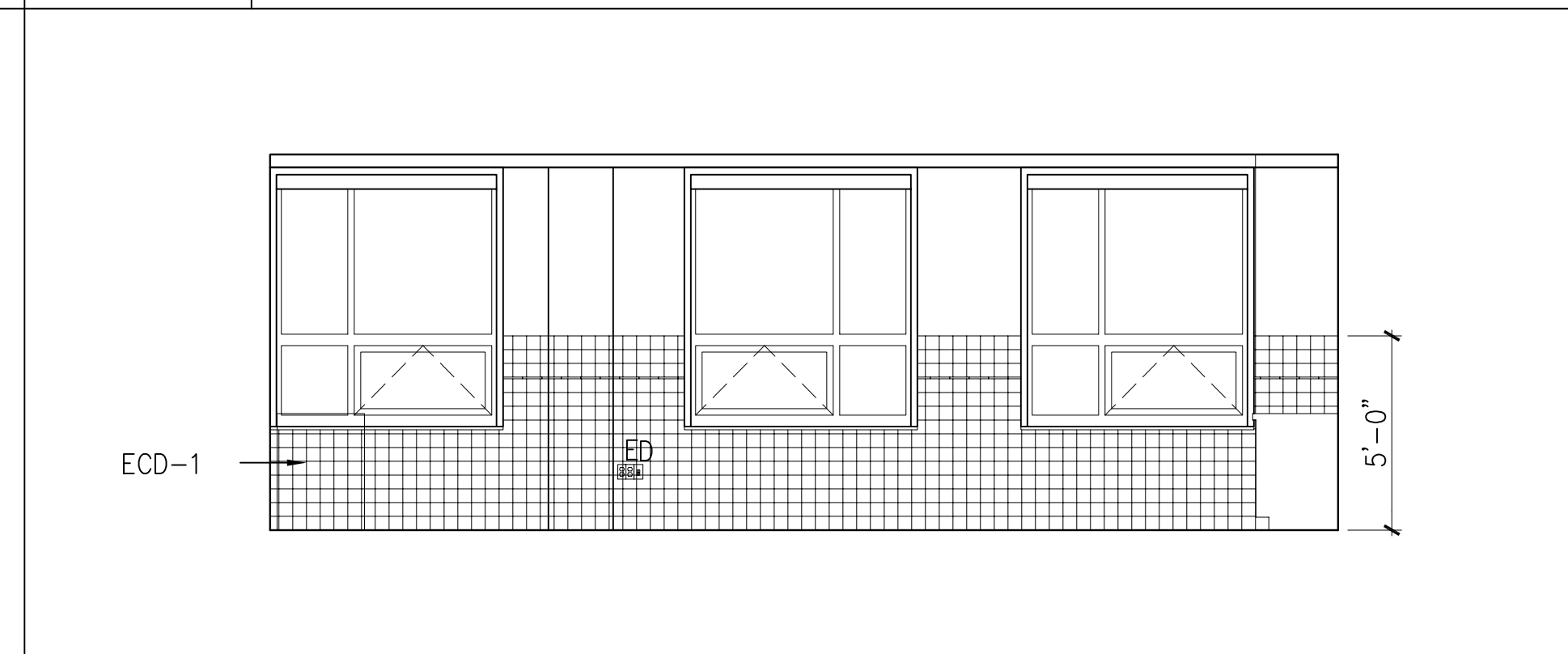
D1 A.D.L. LAB - EAST WALL  
1/4"=1'-0" Rm. 237



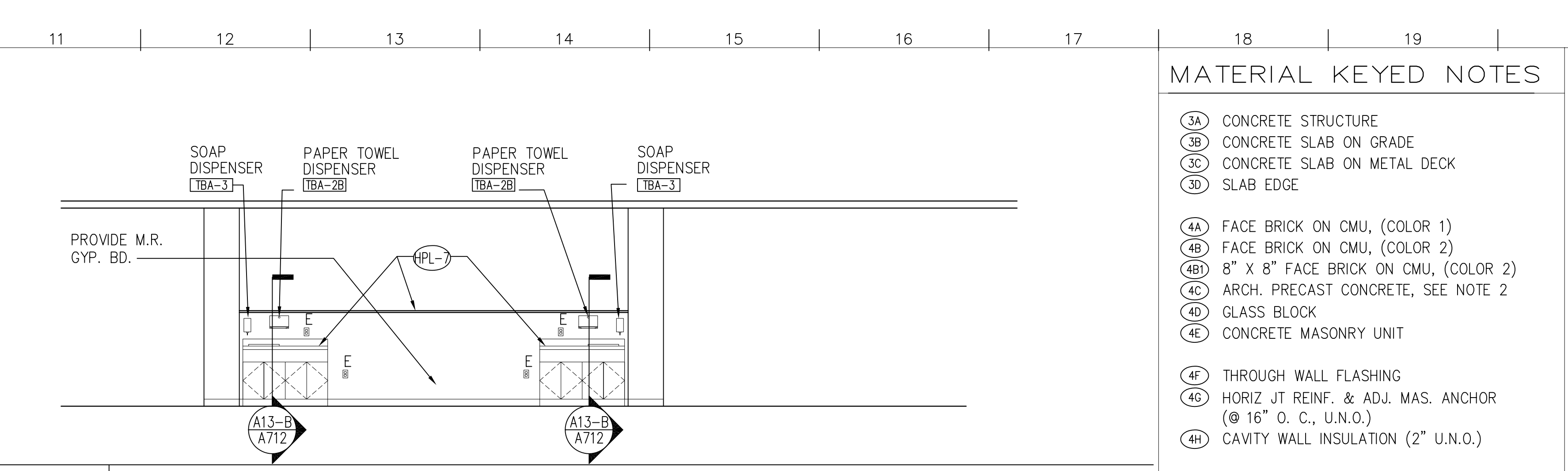
D6 HYDROTHERAPY RM. - NORTH WALL  
1/4"=1'-0" Rm. 246



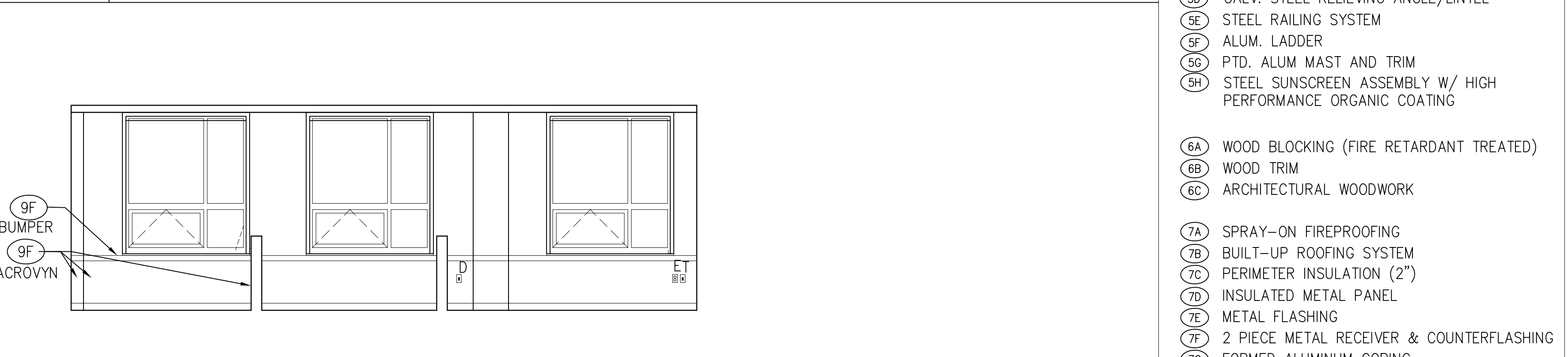
A1 HYDROTHERAPY ROOM - SOUTH WALL  
1/4"=1'-0" Rm. 246



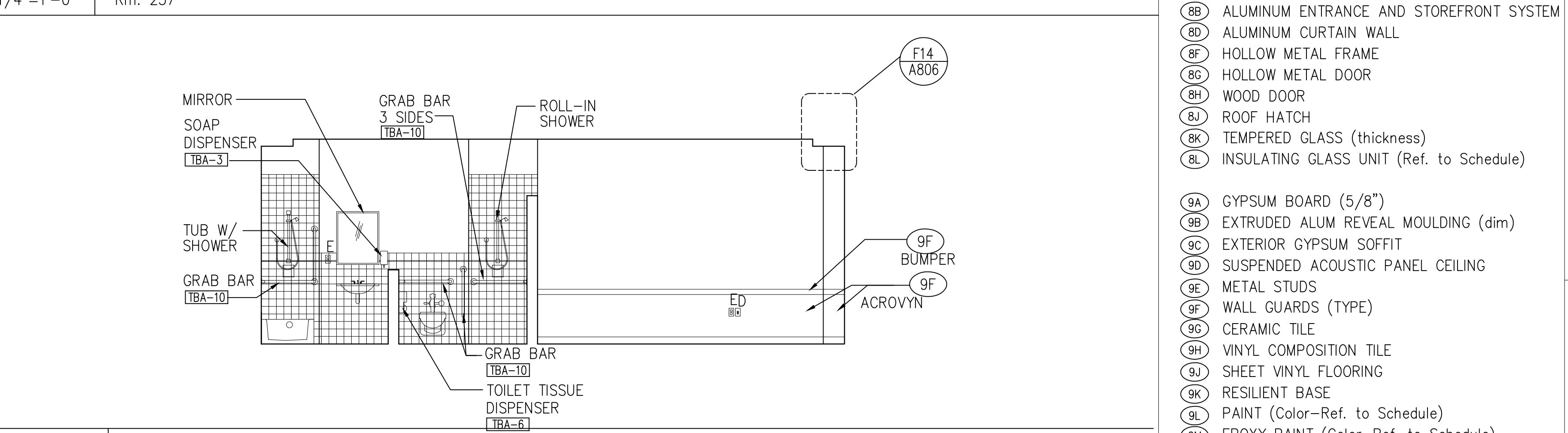
A6 HYDROTHERAPY RM. - EAST WALL  
1/4"=1'-0" Rm. 246



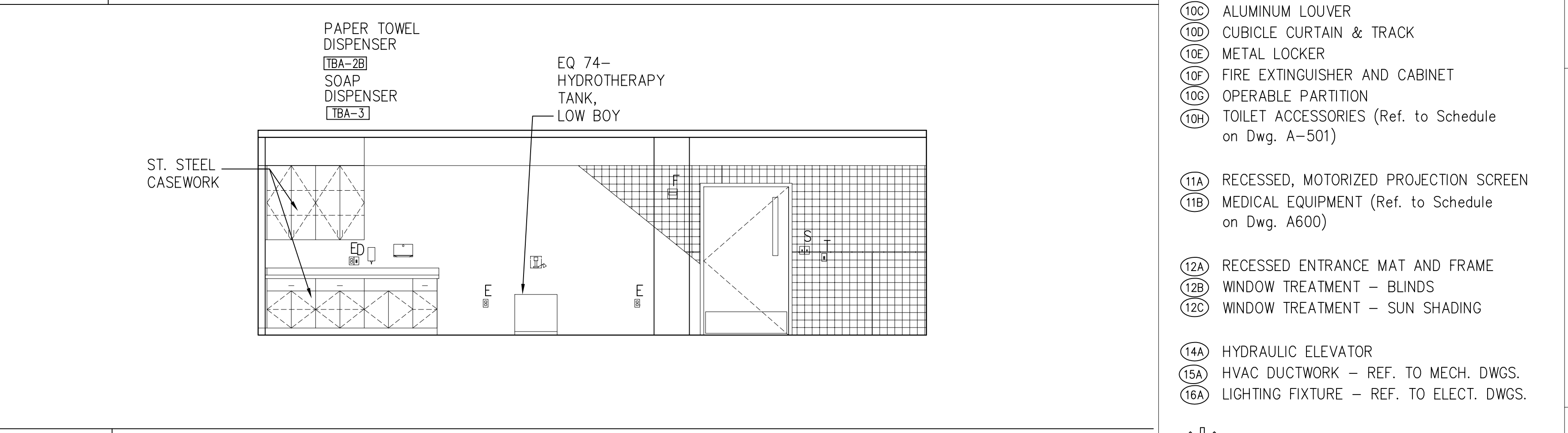
N11 P.T.A. LAB - INTERIOR WALL  
1/4"=1'-0" Rm. 249



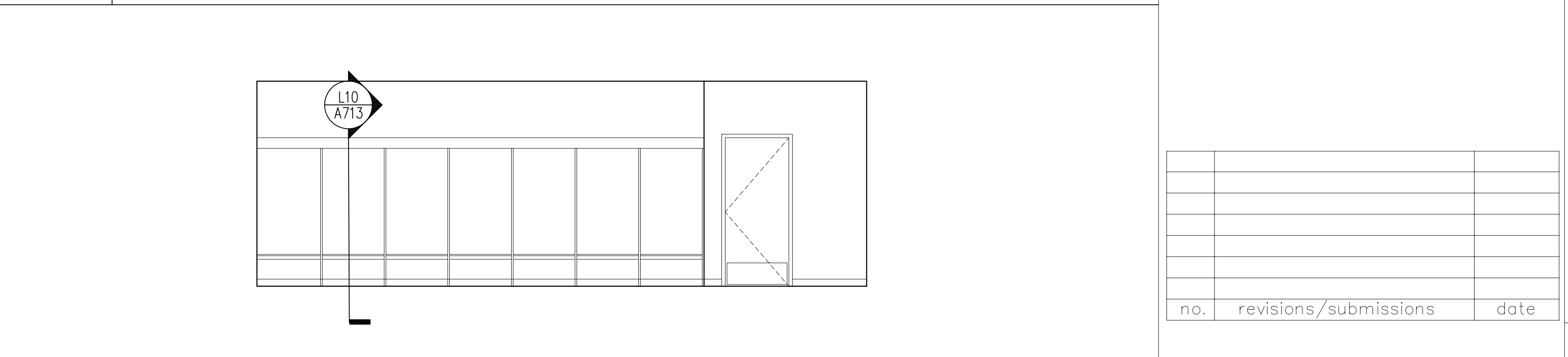
K11 A.D.L. LAB - WEST WALL  
1/4"=1'-0" Rm. 237



G11 A.D.L. LAB - SOUTH WALL  
1/4"=1'-0" Rm. 237



D11 HYDROTHERAPY ROOM - WEST WALL  
1/4"=1'-0" Rm. 246



A11 LOCKERS / SHOWERS - S. WALL  
1/4"=1'-0" Rm. 248

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9J) RESILIENT BASE
- (9K) PAINT (Color-Ref. to Schedule)
- (9L) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A618**  
 SHEET 18 OF 22

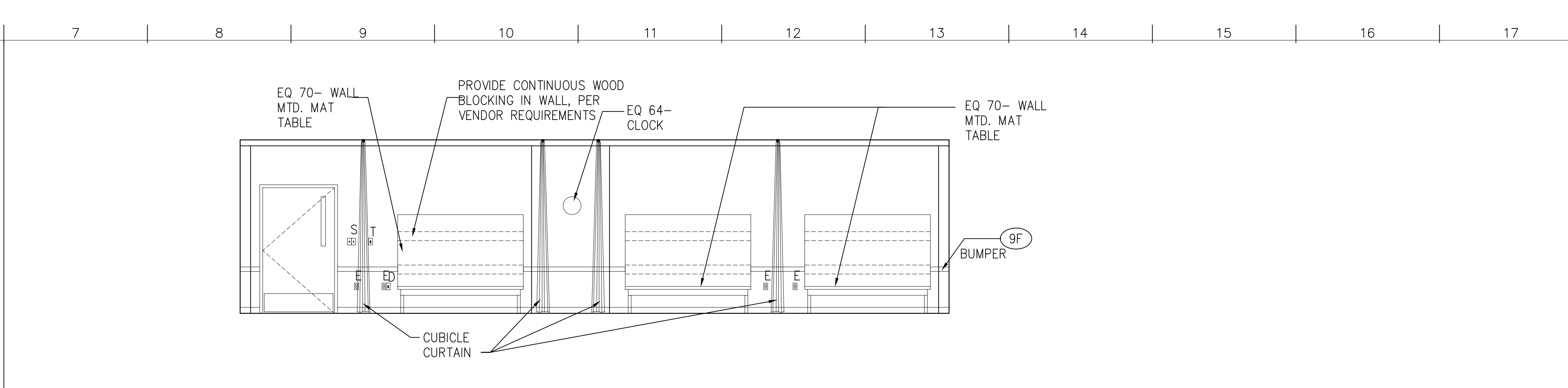
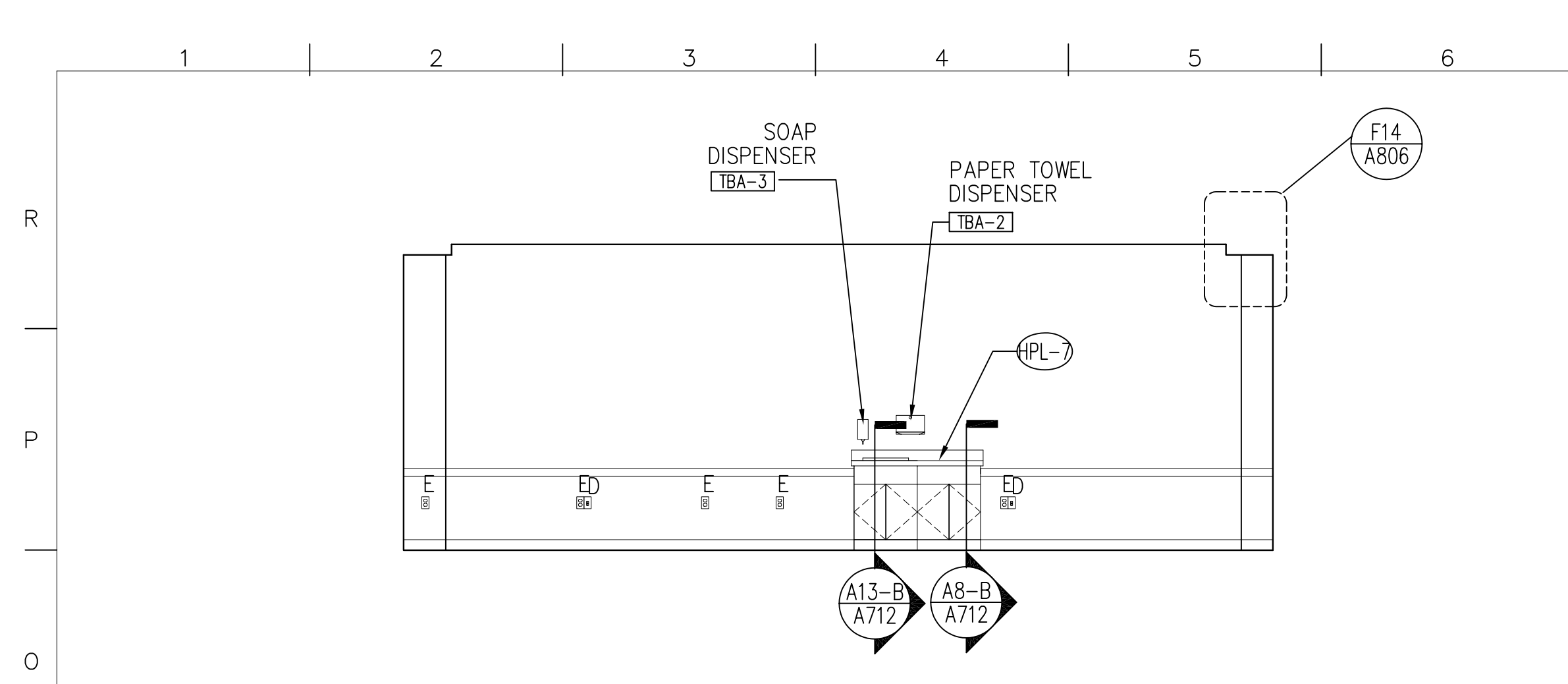
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

Interior Elevations  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

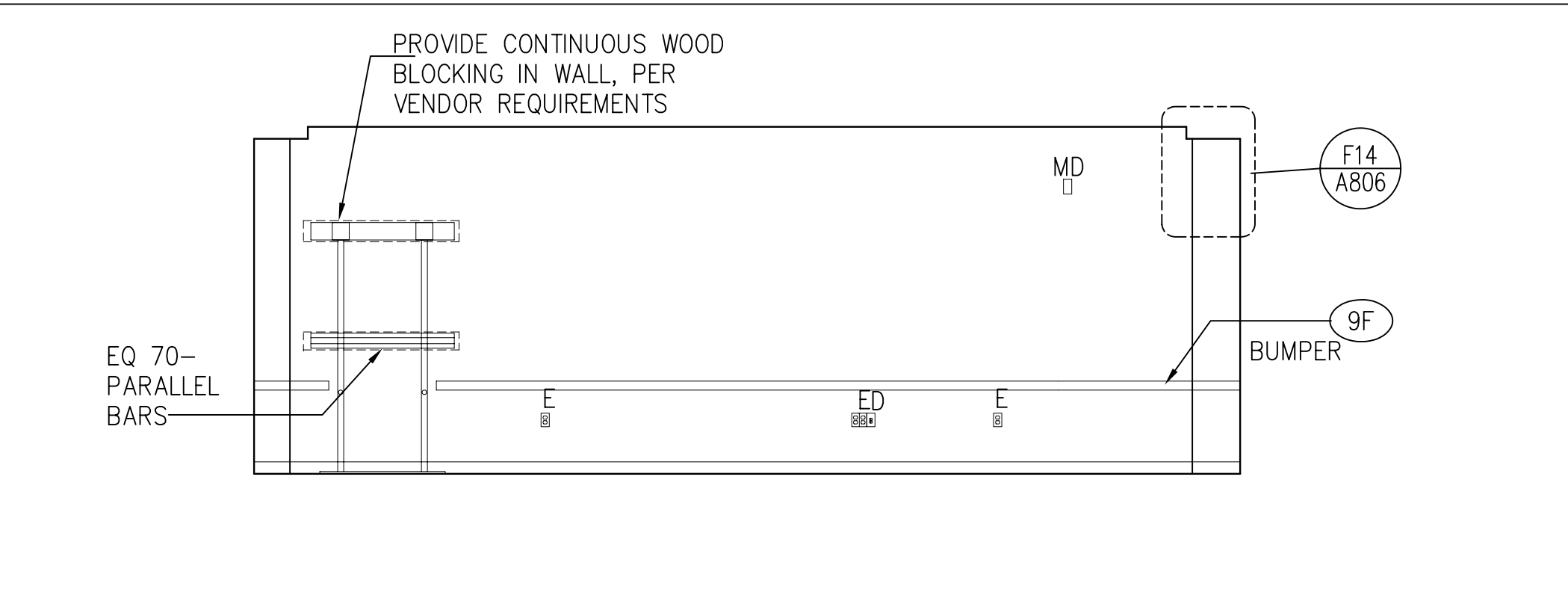
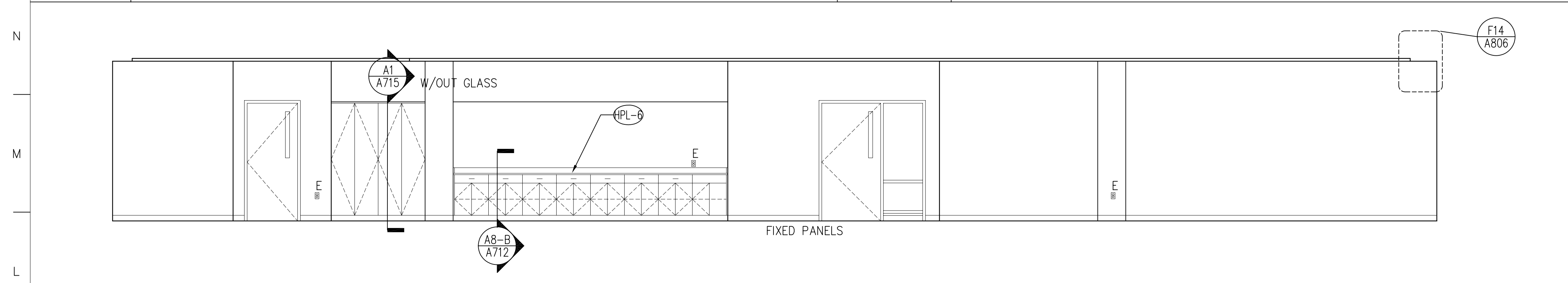
MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE  
 DATE

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 Printed by EngE



N1 PRACTICE TESTING LAB - S WALL  
1/4"=1'-0" Rm. 235

N7 PRACTICE TESTING LAB - E WALL  
1/4"=1'-0" Rm. 235



K1 MEDICAL LEARNING CENTER - N WALL  
1/4"=1'-0" Rm. 223

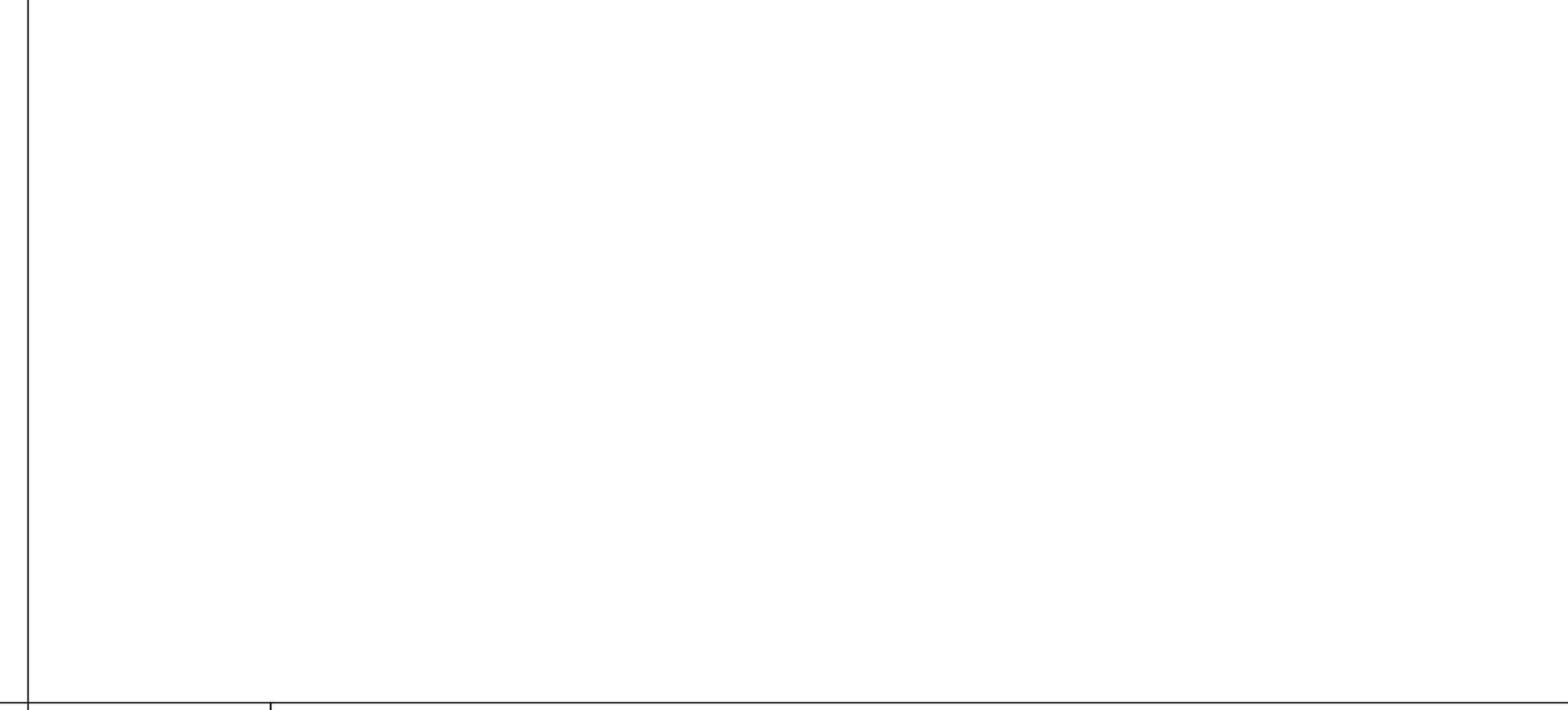
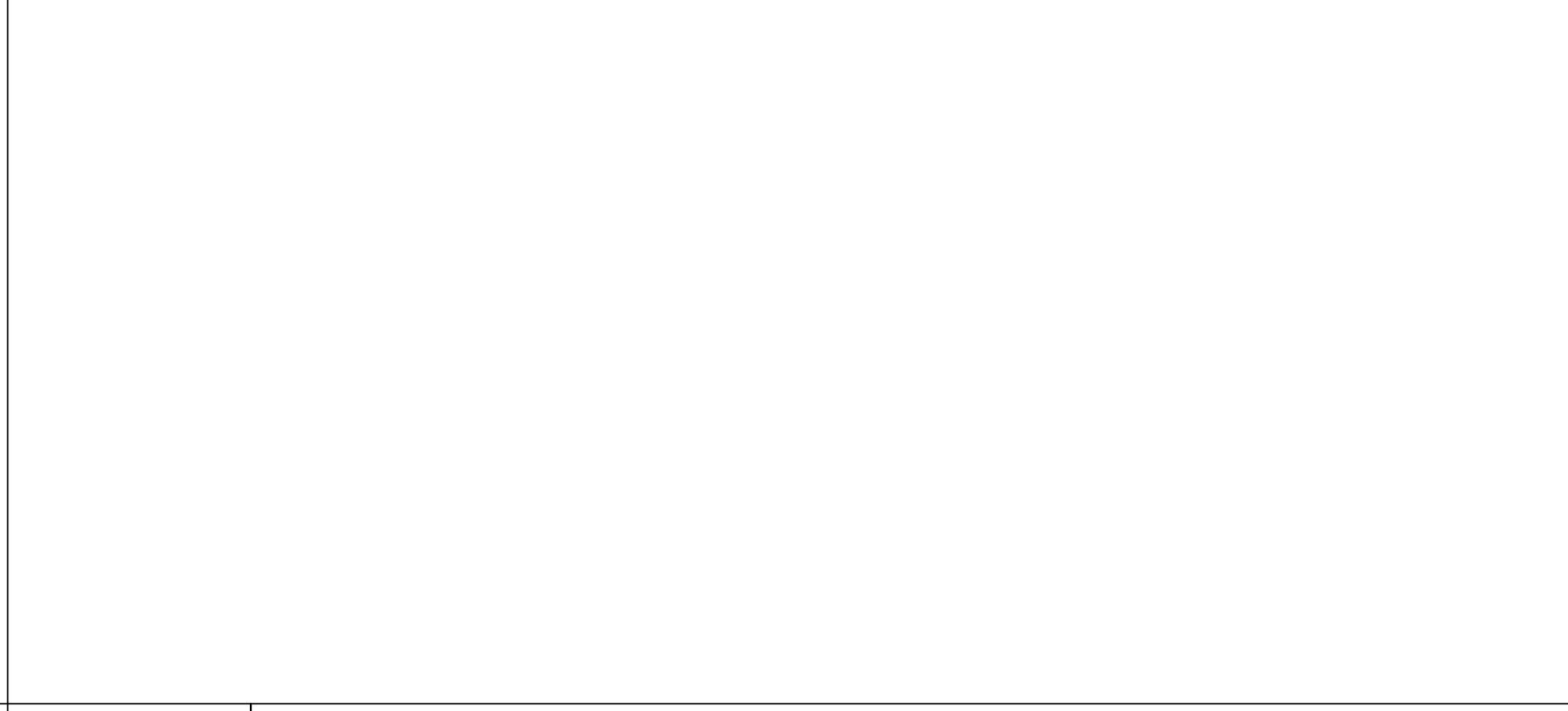
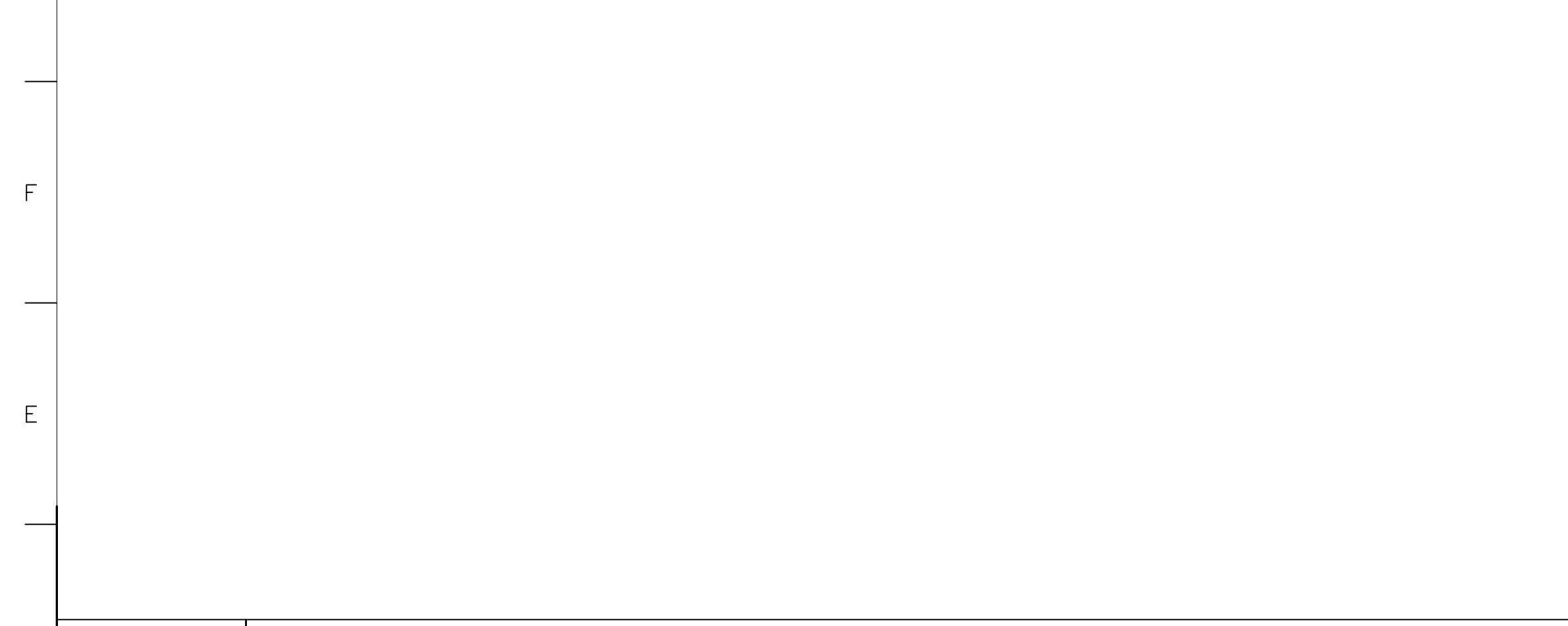
K13 PRACTICE TESTING LAB - N WALL  
1/4"=1'-0" Rm. 225



G1 NOT USED

G7 NOT USED

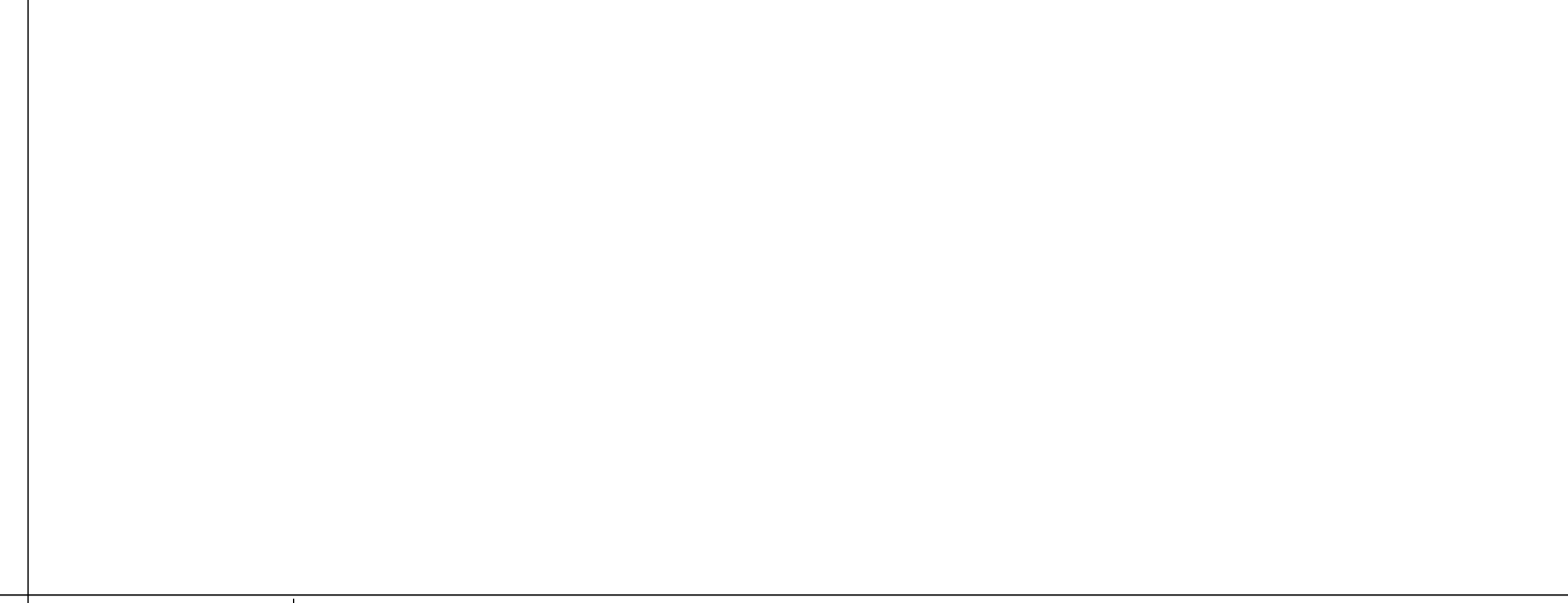
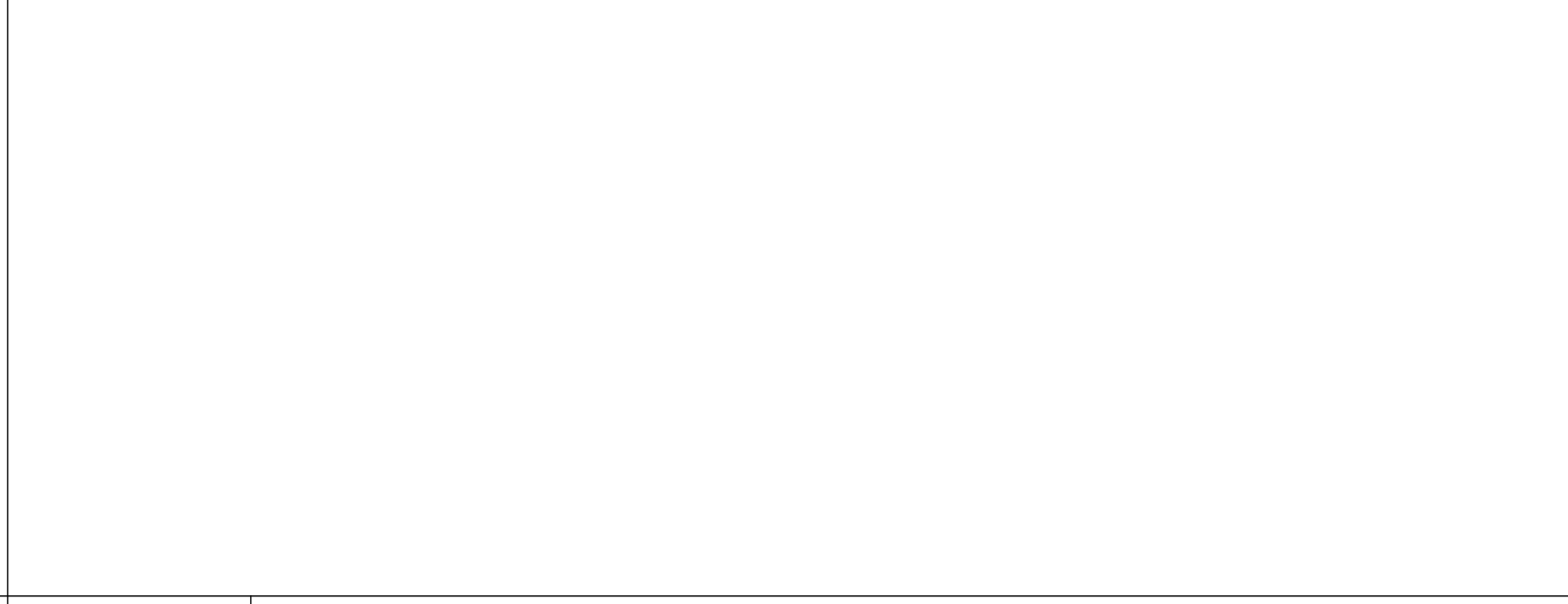
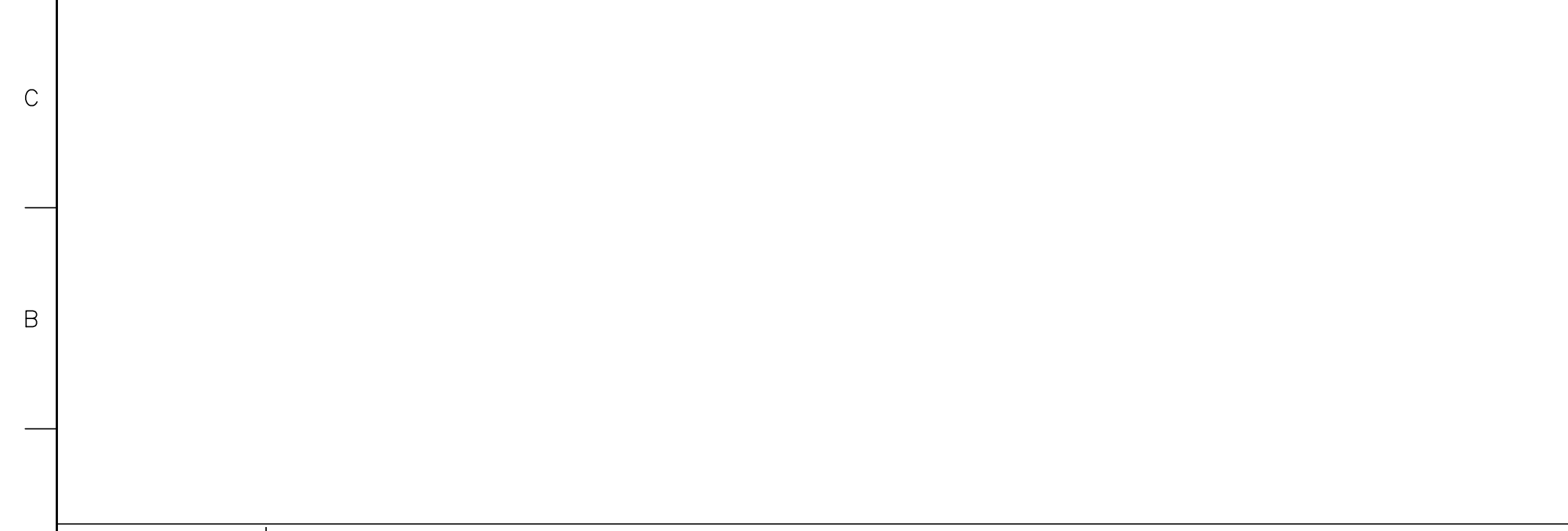
G13 SHOWER ROOM ELEVATION - EAST WALL  
1/4" = 1'-0" Room 250



D1 NOT USED

D7 NOT USED

D13 NOT USED



A1 NOT USED

A7 NOT USED

A13 NOT USED

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
  - (3B) CONCRETE SLAB ON GRADE
  - (3C) CONCRETE SLAB ON METAL DECK
  - (3D) SLAB EDGE
  - (4A) FACE BRICK ON CMU, (COLOR 1)
  - (4B) FACE BRICK ON CMU, (COLOR 2)
  - (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
  - (4D) GLASS BLOCK
  - (4E) CONCRETE MASONRY UNIT
  - (4F) THROUGH WALL FLASHING
  - (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
  - (4H) CAVITY WALL INSULATION (2" U.N.O.)
  - (5A) STRUCTURAL STEEL
  - (5B) METAL DECK
  - (5C) COLD FORMED METAL FRAMING
  - (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
  - (5E) STEEL RAILING SYSTEM
  - (5F) ALUM. LADDER
  - (5G) PTD. ALUM MAST AND TRIM
  - (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
  - (6B) WOOD TRIM
  - (6C) ARCHITECTURAL WOODWORK
  - (7A) SPRAY-ON FIREPROOFING
  - (7B) BUILT-UP ROOFING SYSTEM
  - (7C) PERIMETER INSULATION (2")
  - (7D) INSULATED METAL PANEL
  - (7E) METAL FLASHING
  - (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - (7G) FORMED ALUMINUM COPING
  - (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - (8A) ALUMINUM WINDOW SYSTEM
  - (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - (8C) ALUMINUM CURTAIN WALL
  - (8D) HOLLOW METAL FRAME
  - (8E) HOLLOW METAL DOOR
  - (8F) WOOD DOOR
  - (8G) ROOF HATCH
  - (8H) TEMPERED GLASS (thickness)
  - (8I) INSULATING GLASS UNIT (Ref. to Schedule)
  - (9A) GYPSUM BOARD (5/8")
  - (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
  - (9C) EXTERIOR GYPSUM SOFFIT
  - (9D) SUSPENDED ACOUSTIC PANEL CEILING
  - (9E) METAL STUDS
  - (9F) WALL GUARDS (TYPE)
  - (9G) CERAMIC TILE
  - (9H) VINYL COMPOSITION TILE
  - (9I) SHEET VINYL FLOORING
  - (9J) RESILIENT BASE
  - (9K) PAINT (Color-Ref. to Schedule)
  - (9L) EPOXY PAINT (Color-Ref. to Schedule)
  - (10A) VISUAL DISPLAY BOARD
  - (10B) TOILET COMPARTMENTS
  - (10C) ALUMINUM LOUVER
  - (10D) CUBICLE CURTAIN & TRACK
  - (10E) METAL LOCKER
  - (10F) FIRE EXTINGUISHER AND CABINET
  - (10G) OPERABLE PARTITION
  - (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - (11A) RECESSED, MOTORIZED PROJECTION SCREEN
  - (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - (12A) RECESSED ENTRANCE MAT AND FRAME
  - (12B) WINDOW TREATMENT - BLINDS
  - (12C) WINDOW TREATMENT - SUN SHADING
  - (14A) HYDRAULIC ELEVATOR
  - (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
  - (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Interior Elevations  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

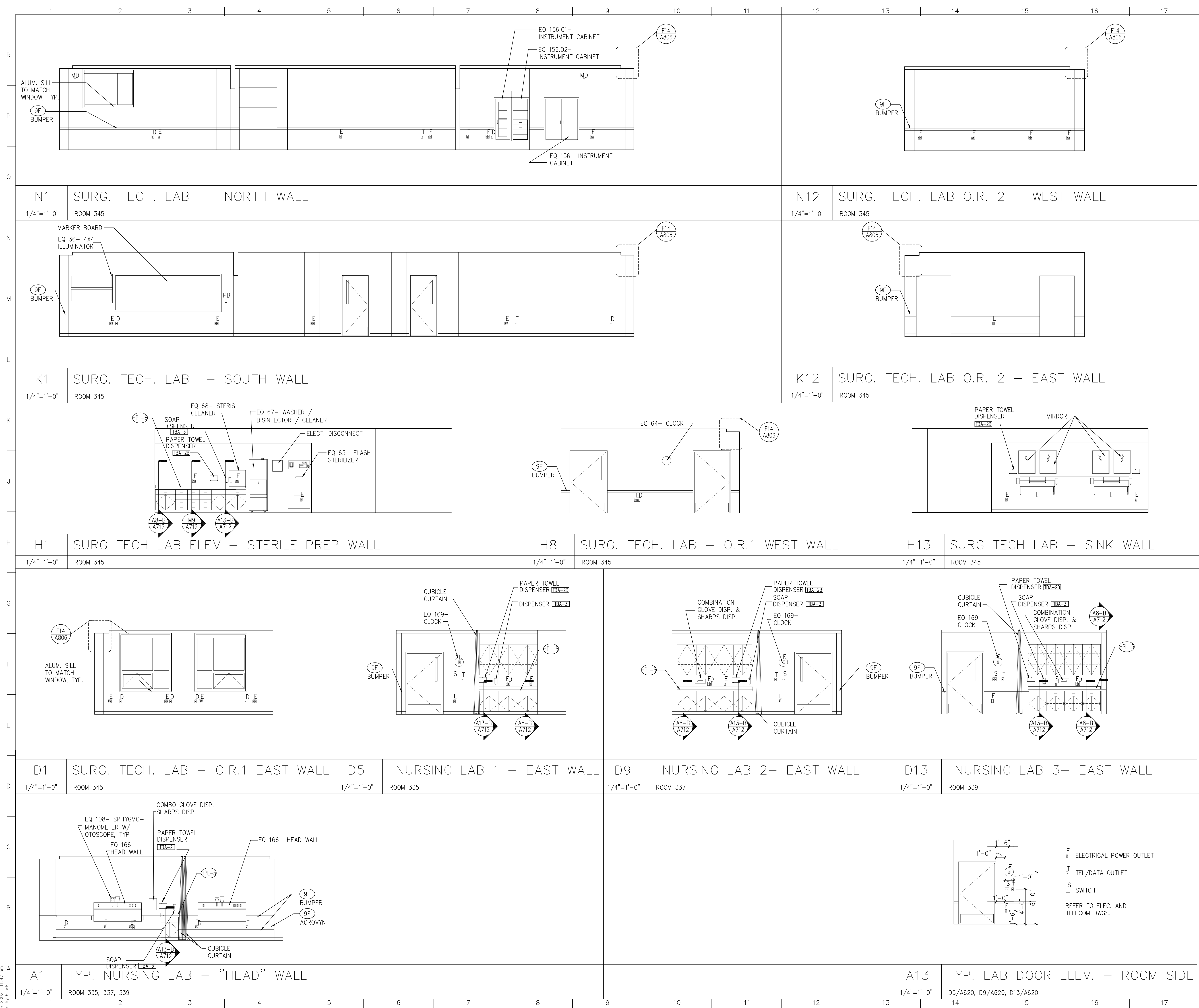
DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
DATE

PROJECT NO. 34499.01  
DATE: 2/20/02  
A619  
SHEET X OF XX

no.	revisions/submissions	date

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Printed by Eng'g



**MATERIAL KEYED NOTES**

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
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- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
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- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
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- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9J) RESILIENT BASE
- (9K) PAINT (Color-Ref. to Schedule)
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- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
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- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

no.	revisions/submissions	date

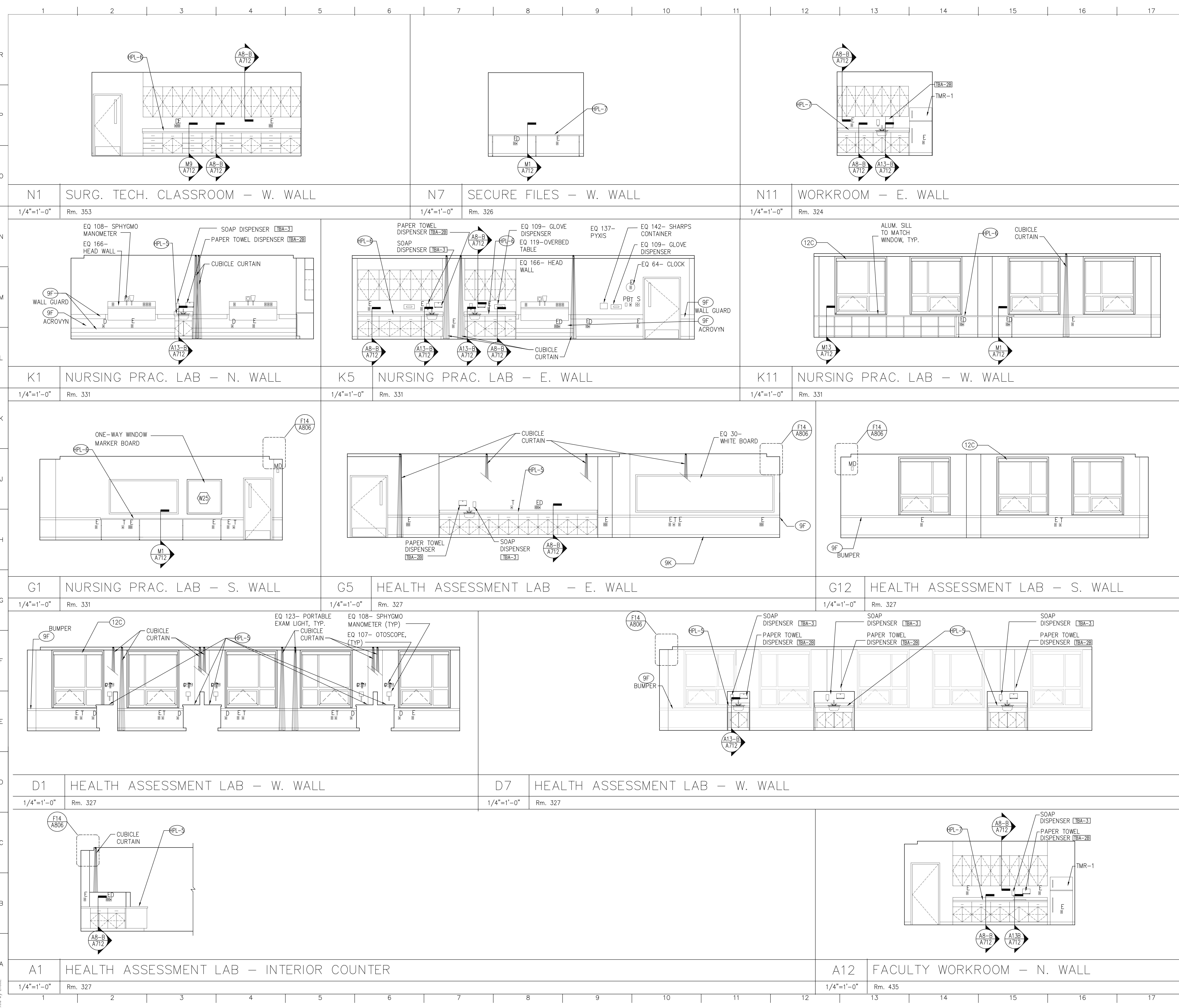
MONTGOMERY COLLEGE  
 DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

**Interior Elevations**

MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-97/98-318

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 Printed by Elnor





**MATERIAL KEYED NOTES**

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
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- (4E) CONCRETE MASONRY UNIT
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- (5F) ALUM. LADDER
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- (9K) PAINT (Color-Ref. to Schedule)
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- (10B) TOILET COMPARTMENTS
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- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK – REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE – REF. TO ELECT. DWGS.

**GENERAL NOTES**

1. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A621**  
 SHEET X OF XX

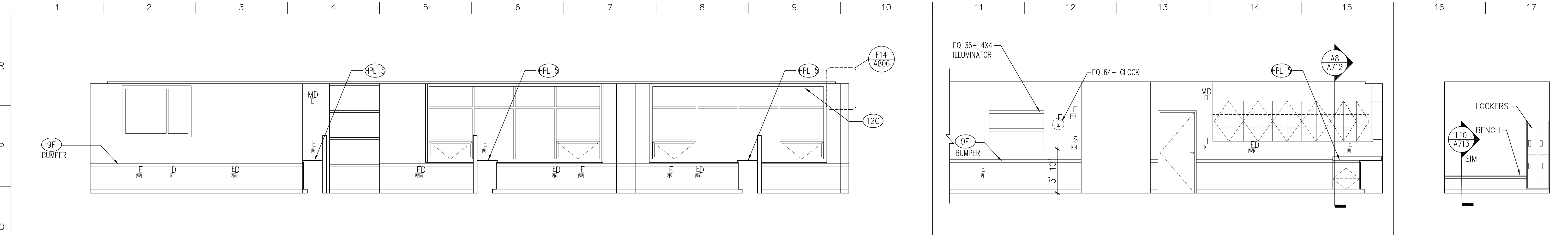
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

**Interior Elevations**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF – PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL  
 DATE

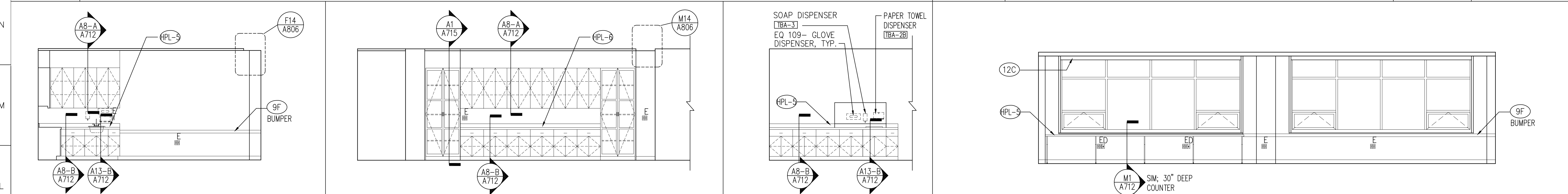
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N1 D.M.S. TECH. LAB - N. WALL 1/4"=1'-0" Rm. 443

N11 D.M.S. TECH. LAB - S. WALL 1/4"=1'-0" Rm. 443

N16 DRESS. RM. 1/4" = 1'-0" Room 441

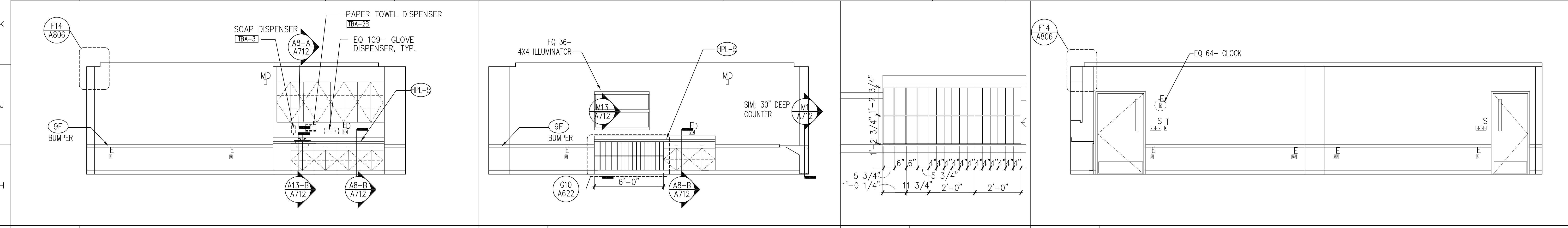


K1 D.M.S. LAB ELEV. - W. WALL 1/4"=1'-0" Rm. 443

D.M.S. CLASSROOM - W. WALL 1/4"=1'-0" Rm. 445

K8 D.M.S. TYP. CAB. K11 1/4"=1'-0" Rm. 443

RAD. TECH. TEACH. LAB - W. WALL 1/4"=1'-0" Rm. 433

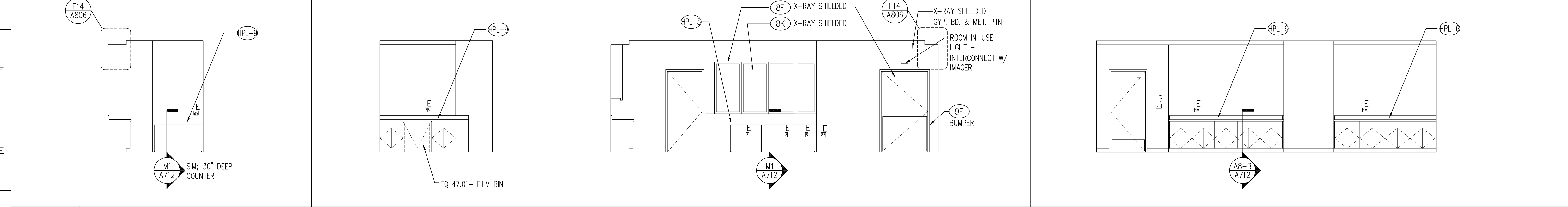


G1 RAD. TECH. TEACH. LAB - N. WALL 1/4"=1'-0" Rm. 433

G6 RAD. TECH. TCH. LAB - S. WALL 1/4"=1'-0" Rm. 433

G10 CAB. ELEV. 1/2"=1'-0" Rm. 433

G12 RAD. TECH. TEACH. LAB - E. WALL 1/4"=1'-0" Rm. 433

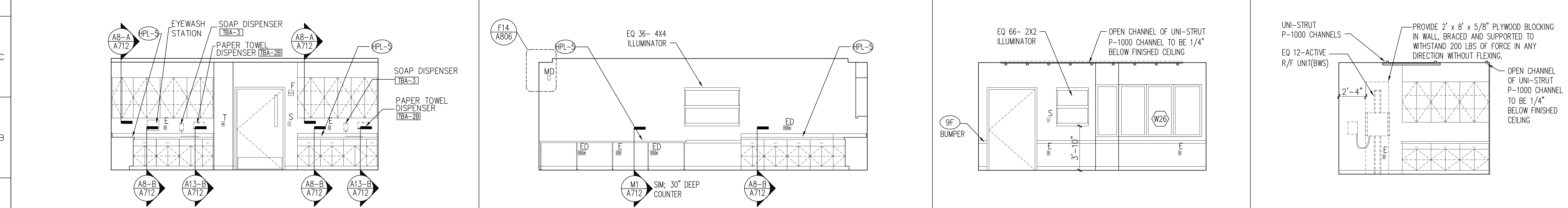


D1 DARKROOM - N. WALL 1/4"=1'-0" Rm. 446

D4 DARKROOM - W. WALL 1/4"=1'-0" Rm. 446

D7 PRO. LAB - N. WALL 1/4"=1'-0" Rm. 442

D12 RAD. TECH. CLASSROOM - E. WALL 1/4"=1'-0" Rm. 431



A1 PRO. LAB - W. WALL 1/4"=1'-0" Rm. 442

A6 PRO. LAB - S. WALL 1/4"=1'-0" Rm. 442

A11 RAD. FLOUROSC. - S. WALL 1/4"=1'-0" Rm. 444

A14 RAD. FLOUROSC. - W. WALL 1/4"=1'-0" Rm. 444

**MATERIAL KEYED NOTES**

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" x 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4C) HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
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- (5B) METAL DECK
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- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5C) PTD. ALUM. MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
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- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
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- (8D) ALUMINUM CURTAIN WALL
- (8F) HOLLOW METAL FRAME
- (8C) HOLLOW METAL DOOR
- (8I) WOOD DOOR
- (8J) ROOF HATCH
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- (8L) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM. REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
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- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
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- (9H) VINYL COMPOSITION TILE
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- (9L) PAINT (Color-Ref. to Schedule)
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- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
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- (12A) RECESSED ENTRANCE MAT AND FRAME
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- (12C) WINDOW TREATMENT - SUN SHADING
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- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

**GENERAL NOTES**

1. REFER TO A406 FOR SPECIAL BRICK TYPES

2. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.

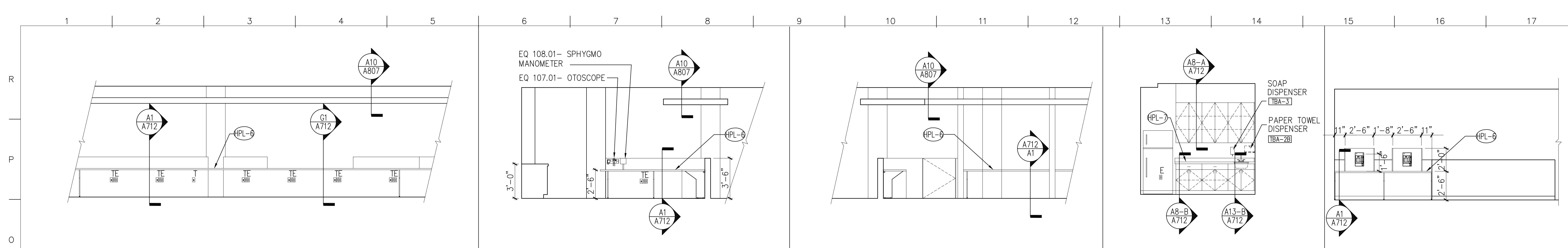
no.	revisions/submissions	date

**Interior Elevations**

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

PROJECT NO. 34495.01  
DATE: 2/20/02  
A622  
SHEET 13 OF 22

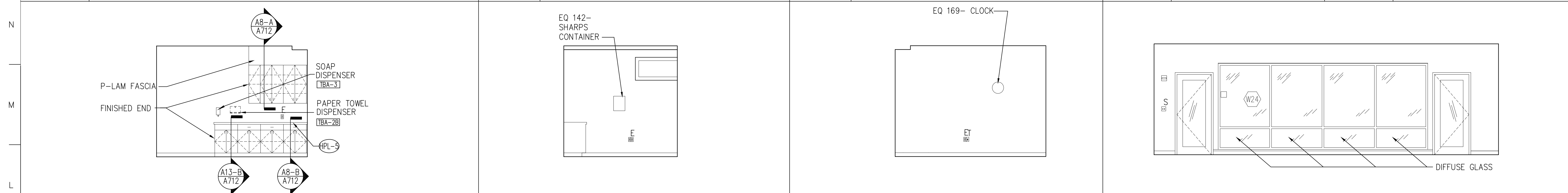
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N1 CLINIC BILLING/RECEPTION LOOKING WEST  
1/4"=1'-0" Rm. 176

N6 CLINIC BILL./RECEP. LOOK.  
1/4"=1'-0" Rm. 176

SN9 CLINIC BILL./RECEP. LOOK.  
1/4"=1'-0" Rm. 176

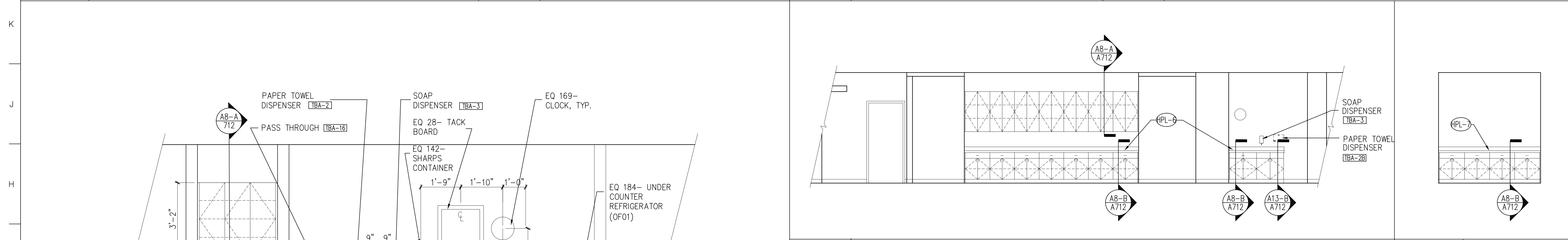


L1 EXAM ROOM TYP. - N. WALL  
1/4"=1'-0" Rm. 158

L6 EXAM RM. TYP. - E. WALL  
1/4"=1'-0" Rm. 158

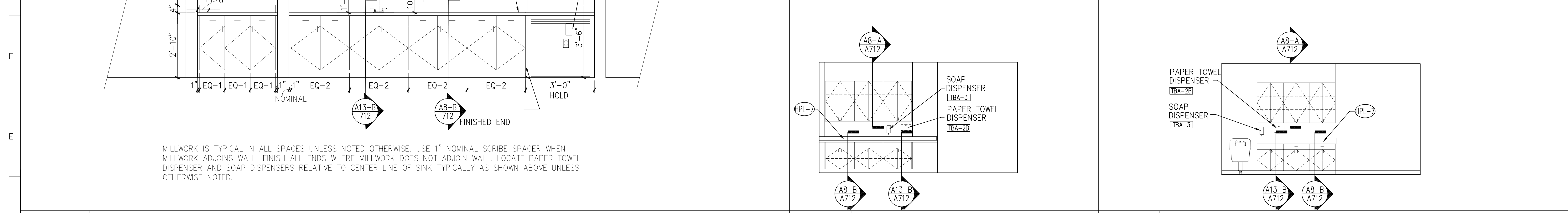
L9 EXAM RM. TYP. - S. WALL  
1/4"=1'-0" Rm. 158

L12 RESOURCE CENTER - E. WALL  
1/4"=1'-0" Rm. 151



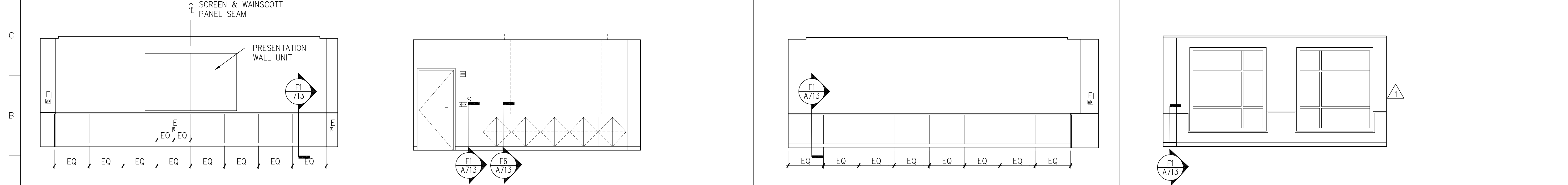
H9 CLINIC BILLING / RECEPTION - LOOKING EAST  
1/4"=1'-0" Rm. 176 / 174

H16 COPY RM. -  
1/4"=1'-0" Rm. 137



D1 PHLEB./SPECIMEN - SOUTH WALL  
1/2"=1'-0" Rm. 162

D9 CLEAN ROOM  
1/4"=1'-0" Rm. 166



A1 EXEC. MEETING ROOM - E. WALL  
1/4"=1'-0" Rm. 119

A5 EXEC. MEETING ROOM - N. WALL  
1/4"=1'-0" Rm. 119

A9 EXEC. MEETING ROOM - W. WALL  
1/4"=1'-0" Rm. 119

A13 EXEC. MEETING ROOM - S. WALL  
1/4"=1'-0" Rm. 119

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
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- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4C) HORIZ JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
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- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5C) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
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- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8D) ALUMINUM CURTAIN WALL
- (8F) HOLLOW METAL FRAME
- (8C) HOLLOW METAL DOOR
- (8H) WOOD DOOR
- (8J) ROOF HATCH
- (8K) TEMPERED GLASS (thickness)
- (8L) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9J) SHEET VINYL FLOORING
- (9K) RESILIENT BASE
- (9L) PAINT (Color-Ref. to Schedule)
- (9M) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- (11A) RECESSED, MOTORIZED PROJECTION SCREEN
- (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- (12A) RECESSED ENTRANCE MAT AND FRAME
- (12B) WINDOW TREATMENT - BLINDS
- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.

GENERAL NOTES

1. REFER TO A907 FOR INTERIOR WINDOW SCHEDULE AND DETAILS.

no.	revisions/submissions	date

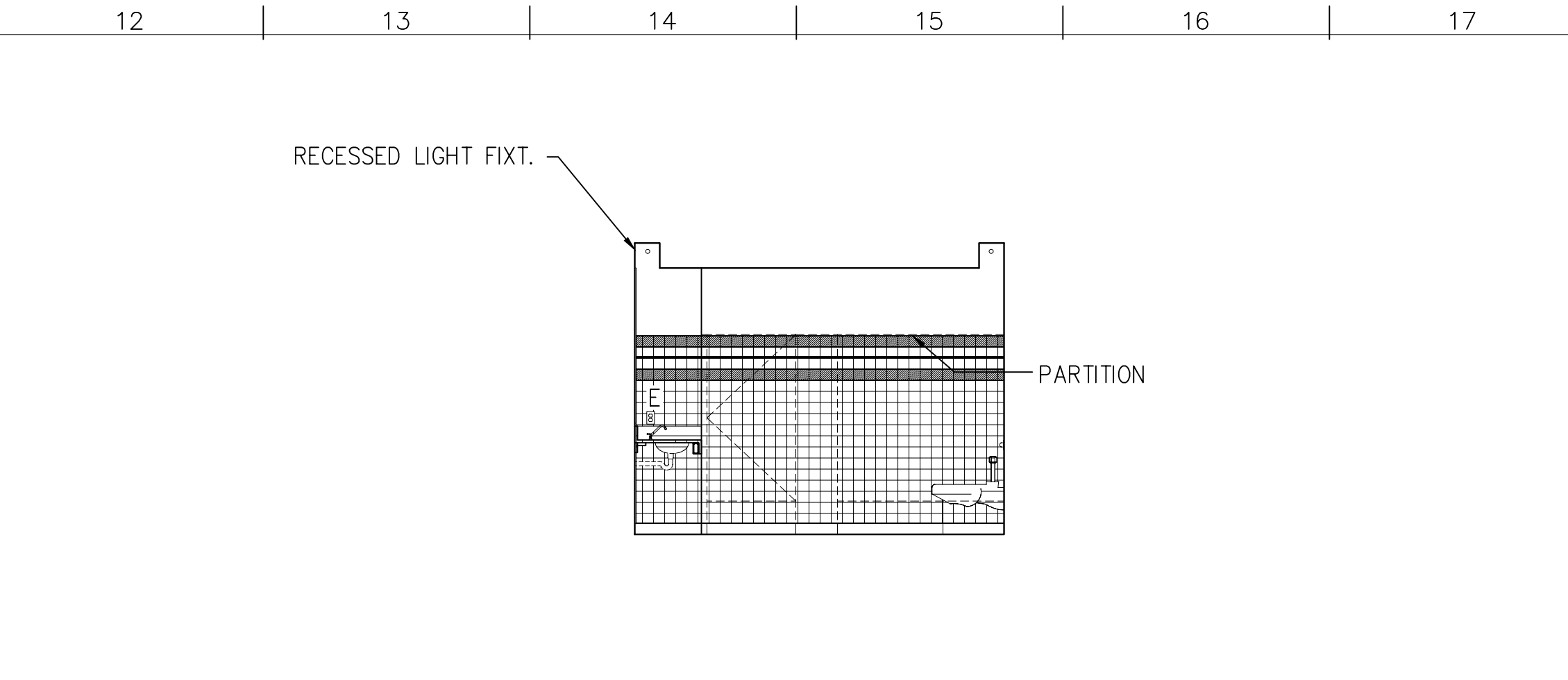
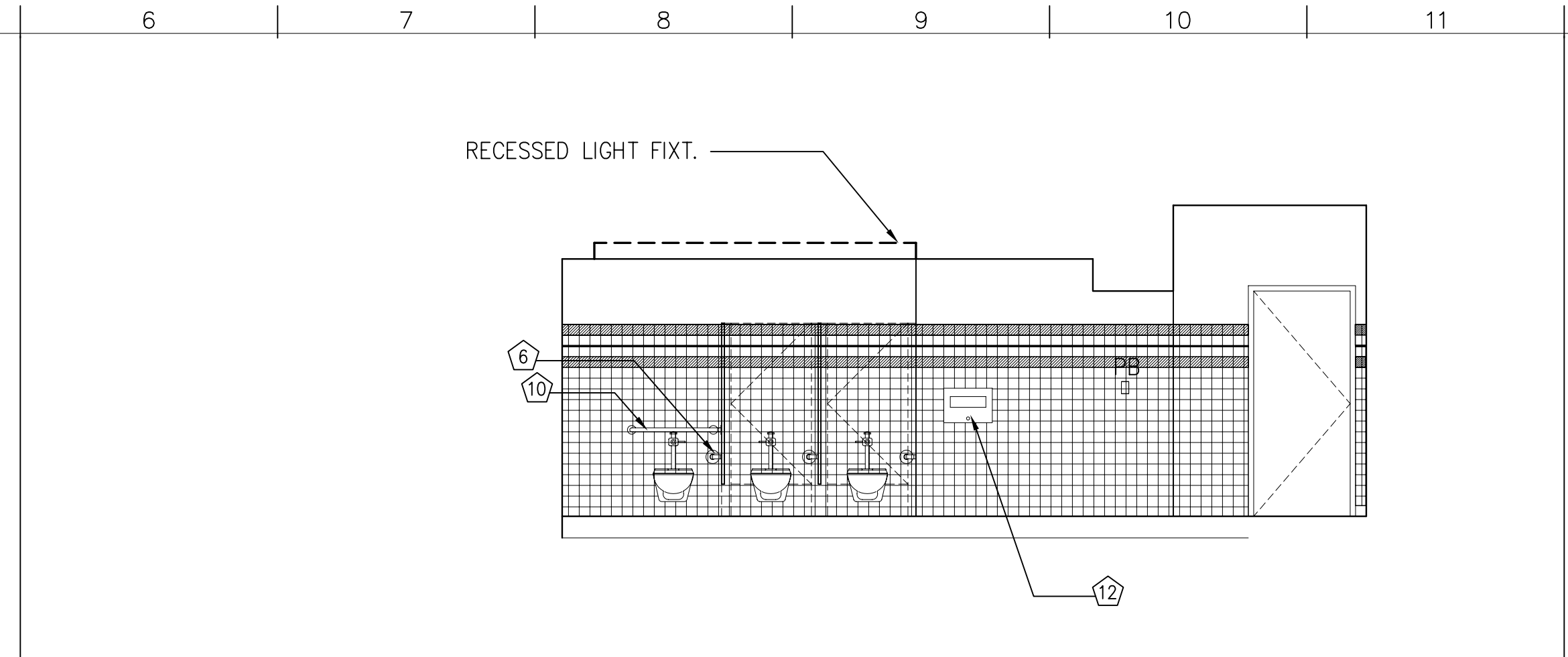
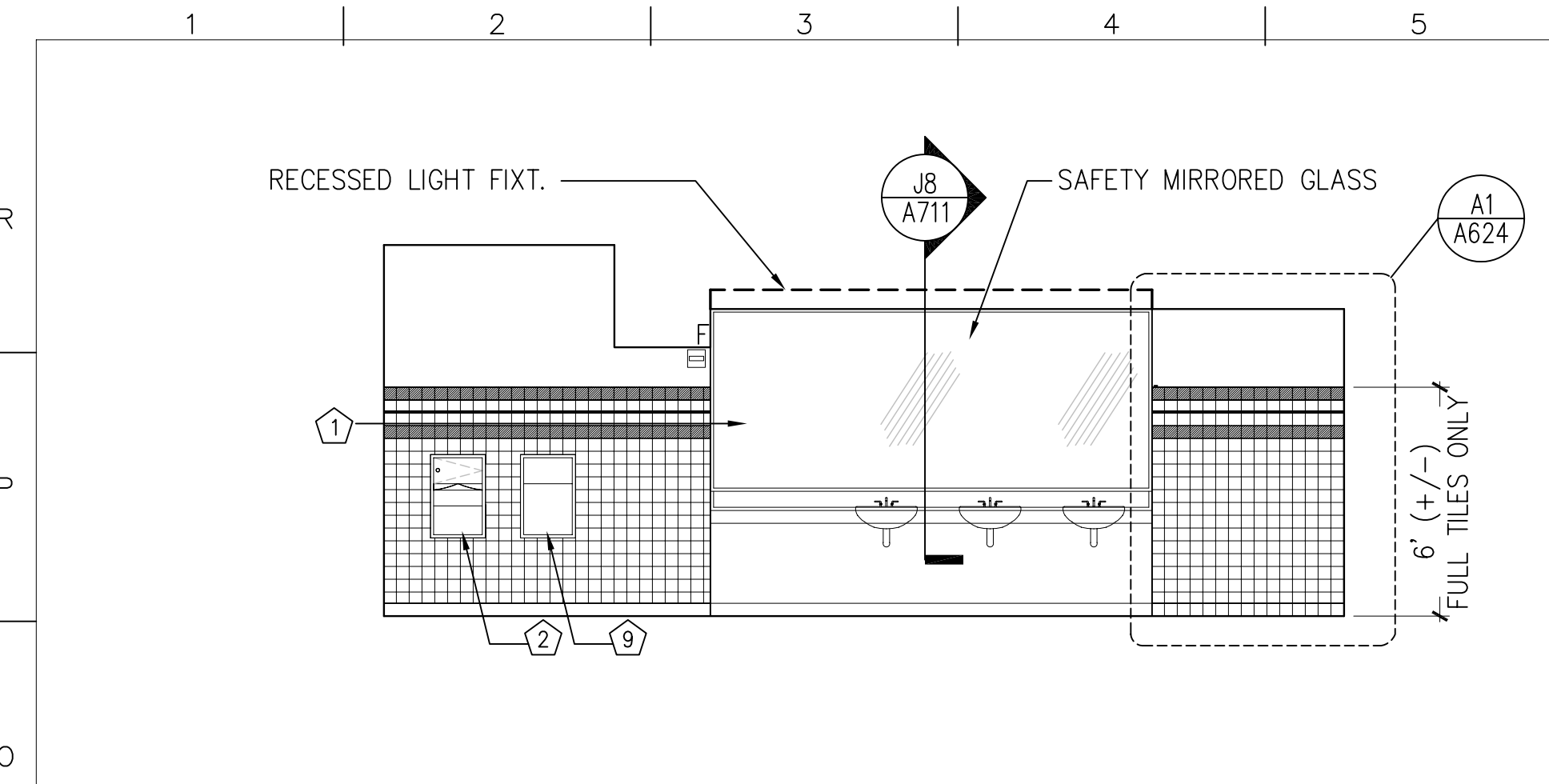
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Interior Elevations  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

PROJECT NO. 34495.01  
DATE: 2/20/02  
A623  
SHEET XX OF XX

DEPARTMENT OF GENERAL SERVICES APPROVAL  
MONTGOMERY COLLEGE APPROVAL

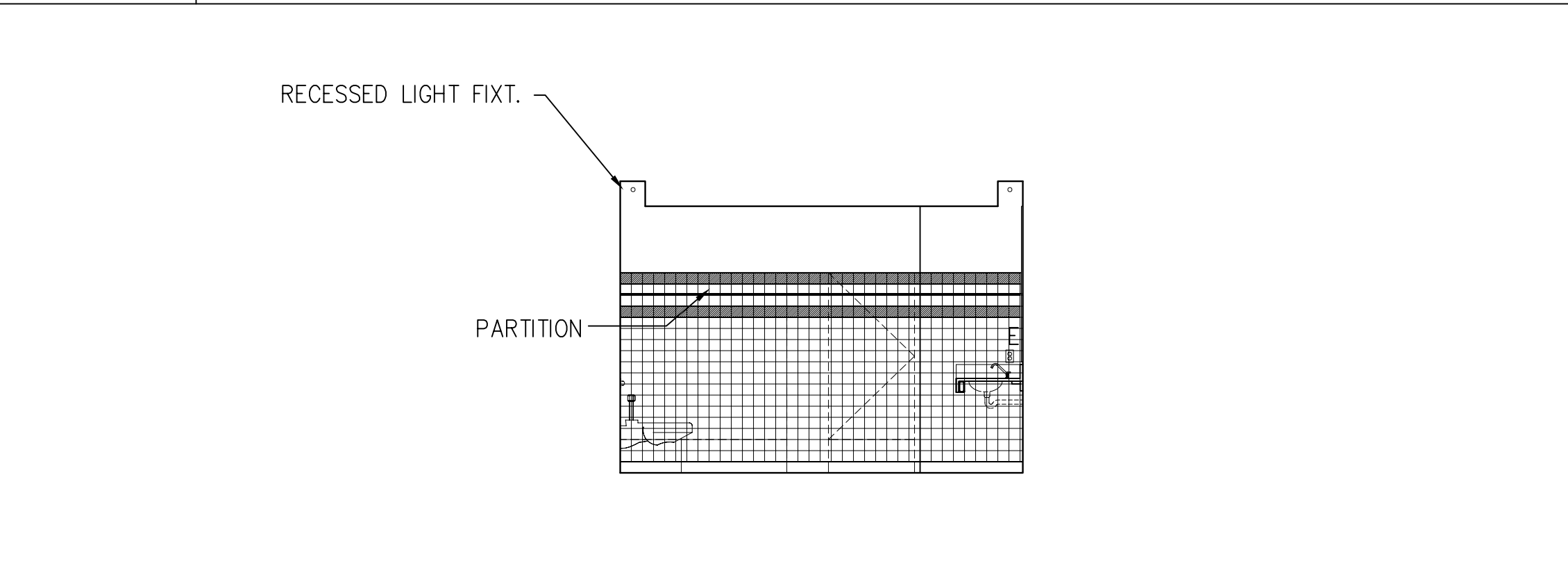
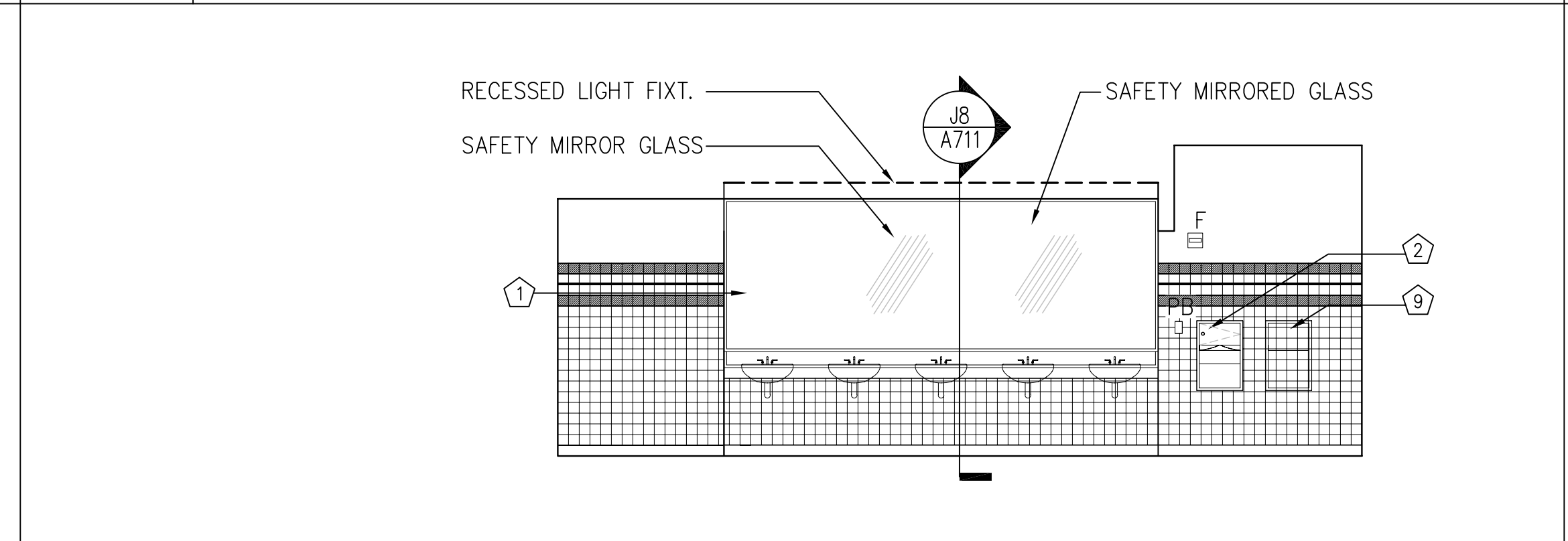
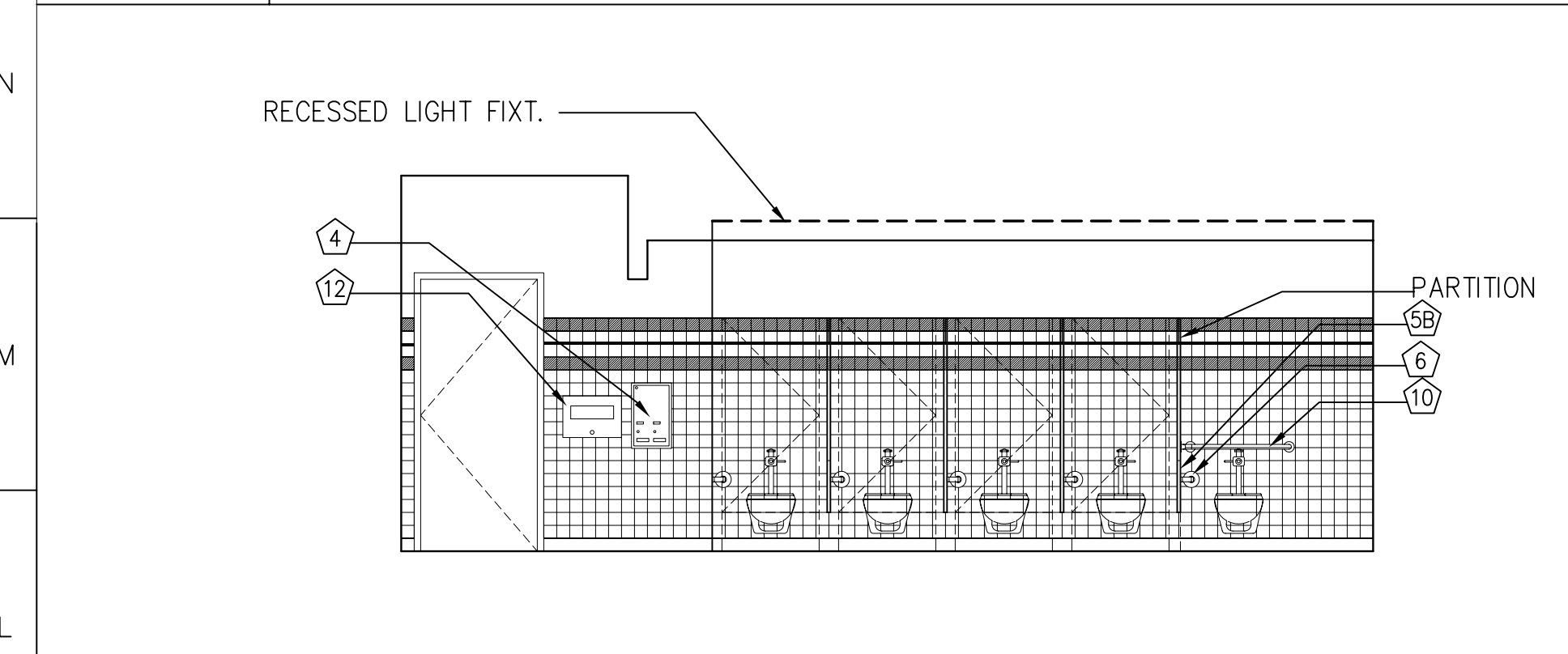
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE



N1 MEN'S ROOM ELEV. - NORTH WALL  
1/4"=1'-0"

N6 MEN'S ROOM ELEV. - SOUTH WALL  
1/4"=1'-0"

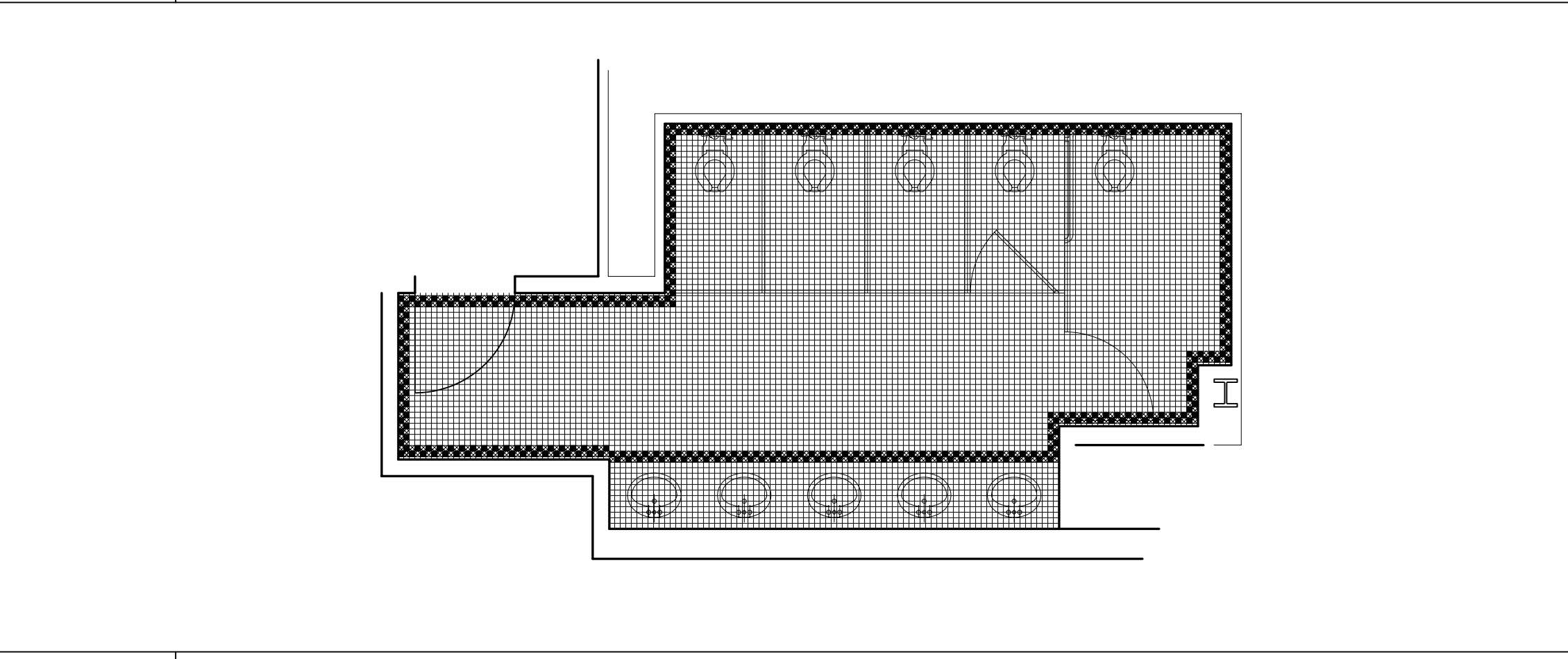
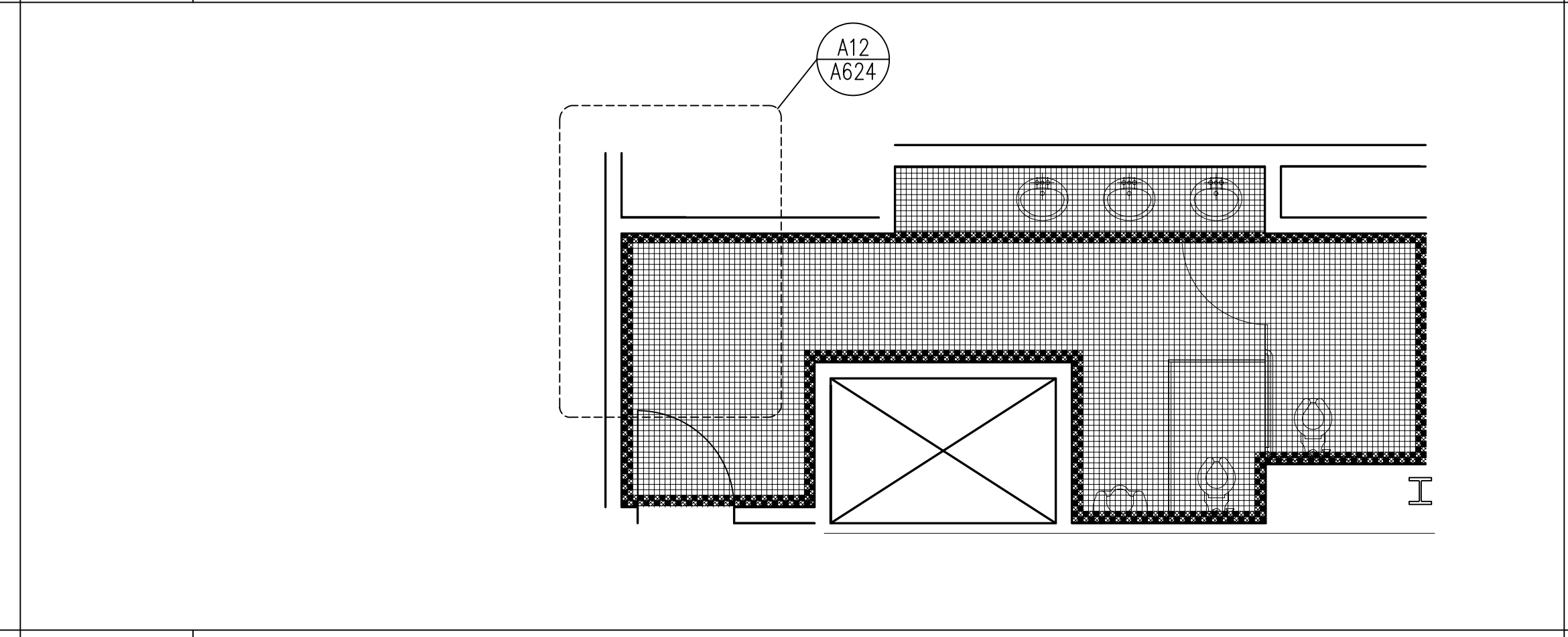
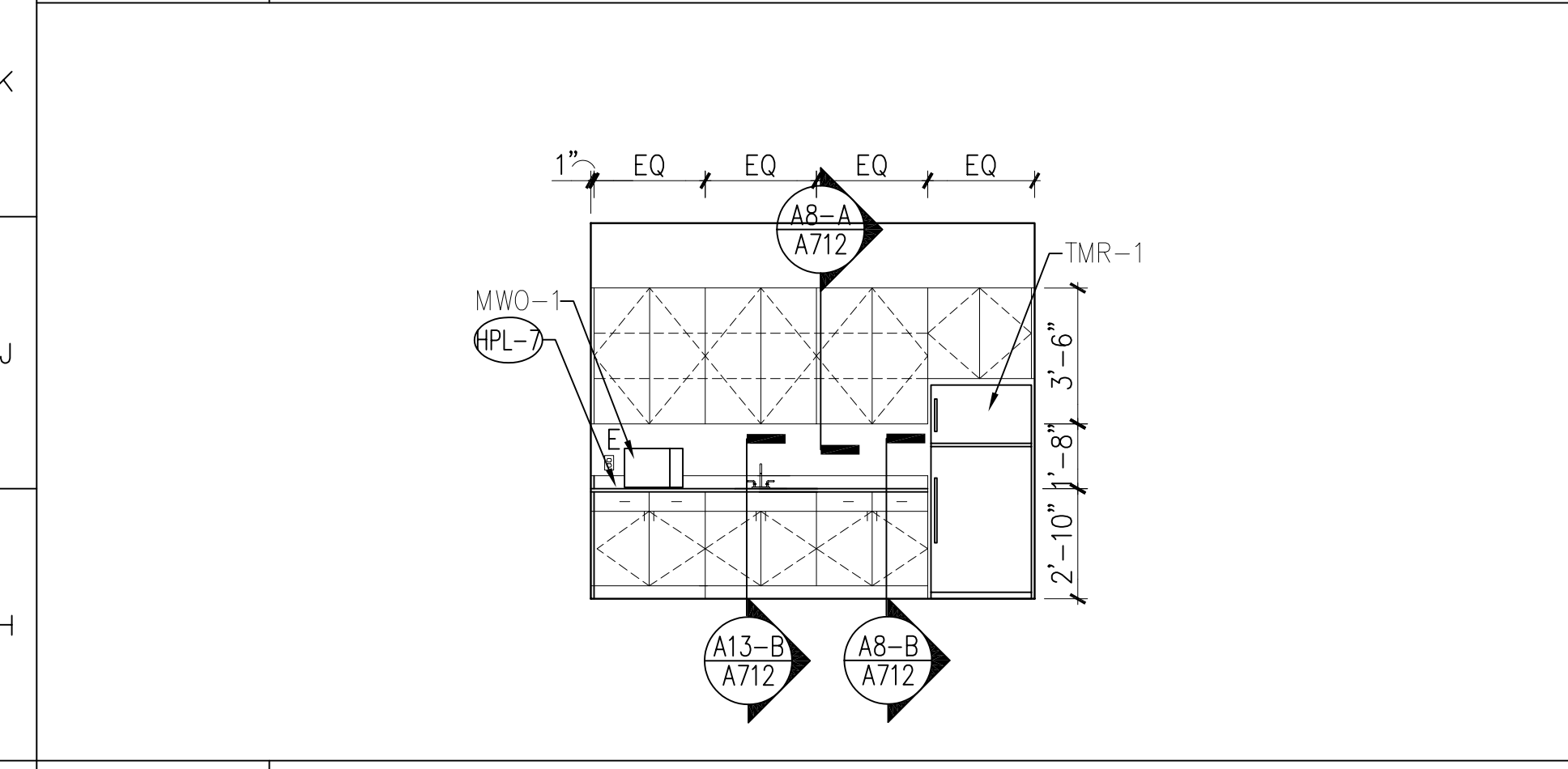
N12 MEN'S ROOM ELEV. - EAST WALL  
1/4"=1'-0"



K1 WOMEN'S ROOM ELEV. - NORTH WALL  
1/4"=1'-0"

K6 WOMEN'S ROOM ELEV. - SOUTH WALL  
1/4"=1'-0"

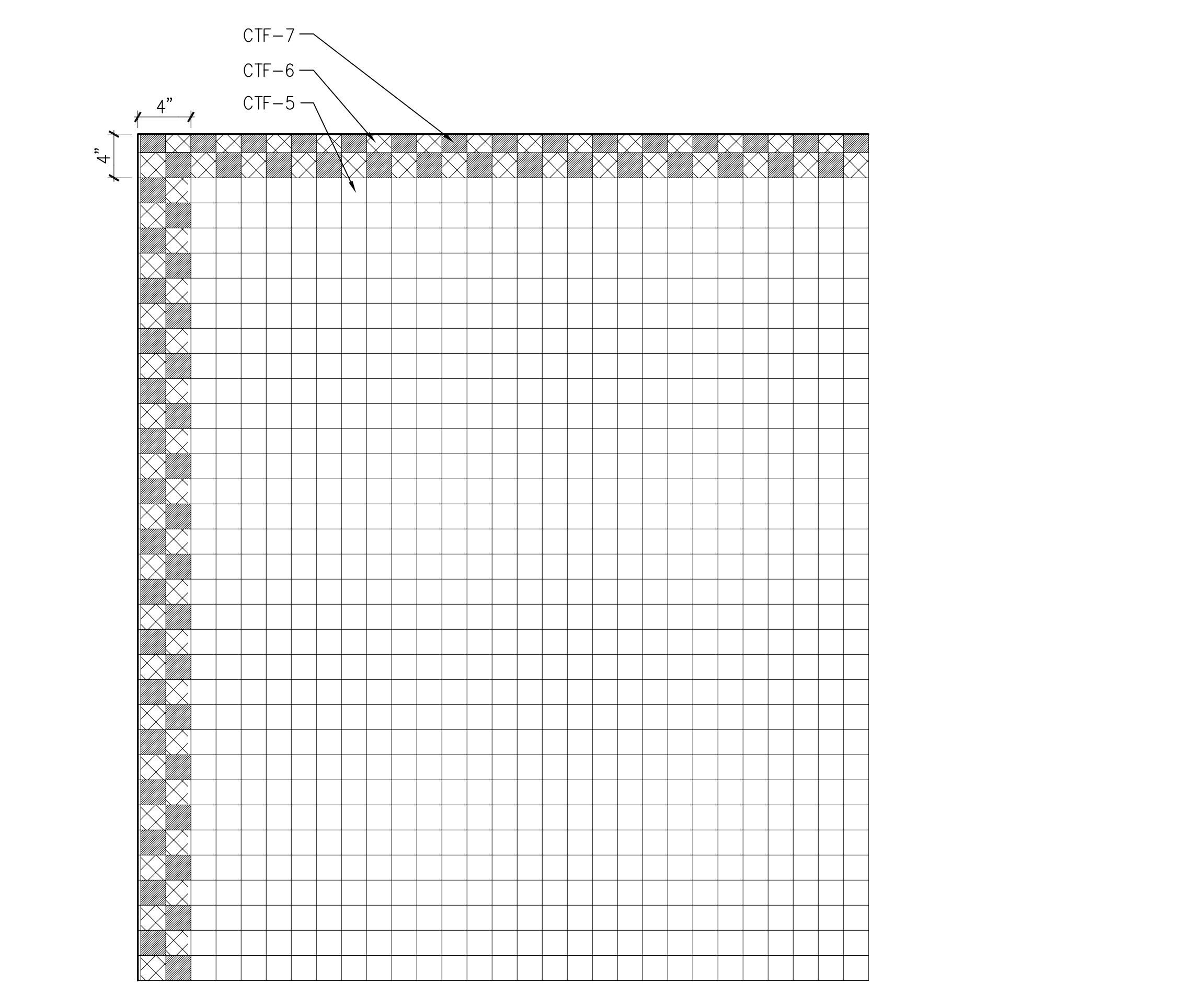
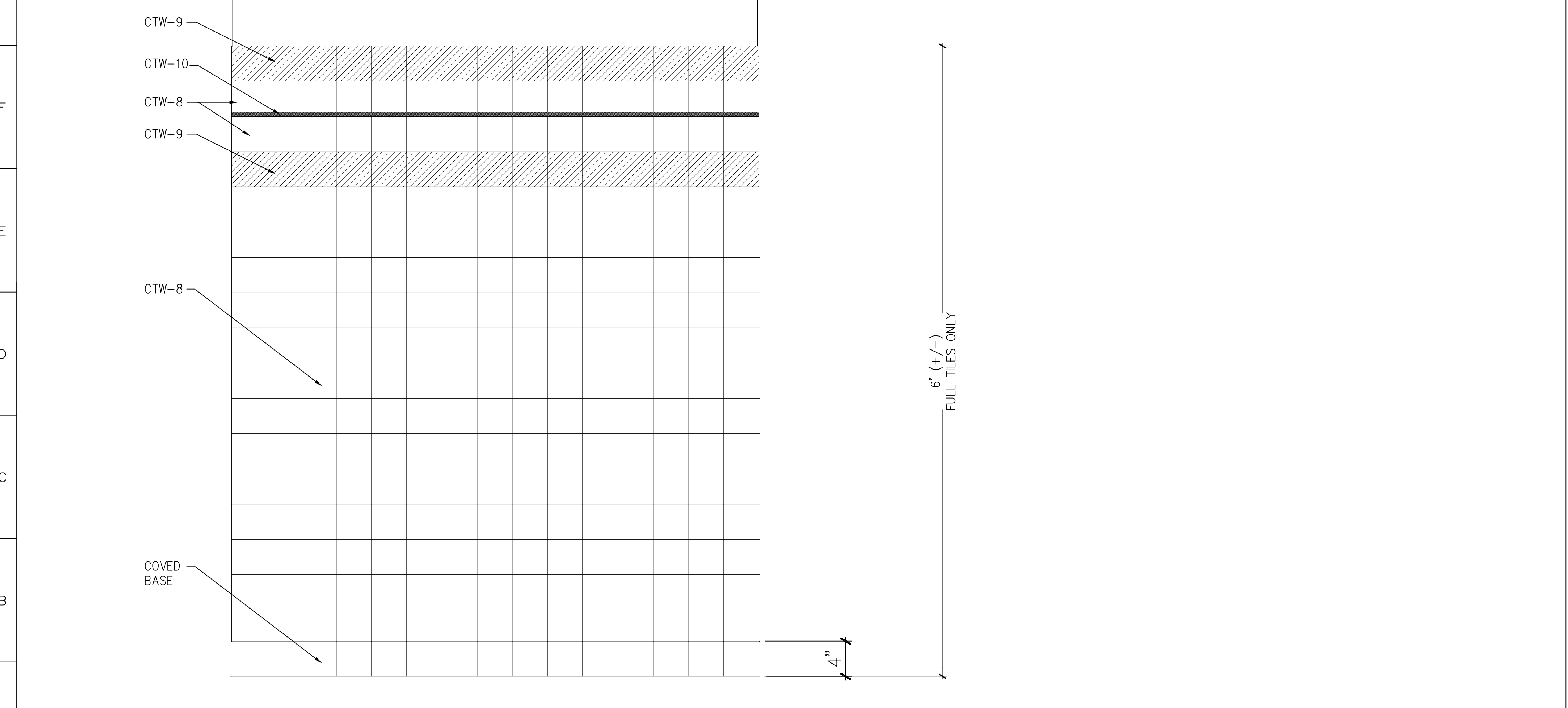
K12 WOMEN'S ROOM ELEV. - EAST WALL  
1/4"=1'-0"



G1 WORK ROOM ELEV. - EAST WALL  
1/4"=1'-0"

G6 MEN'S ROOM  
1/4"=1'-0"

G12 WOMEN'S ROOM  
1/4"=1'-0"



A1 RESTROOM WALL TILE DETAIL  
1 1/2"=1'-0"

A12 RESTROOM FLOOR TILE DETAIL  
1 1/2"=1'-0"

MATERIAL KEYED NOTES

- (3A) CONCRETE STRUCTURE
- (3B) CONCRETE SLAB ON GRADE
- (3C) CONCRETE SLAB ON METAL DECK
- (3D) SLAB EDGE
- (4A) FACE BRICK ON CMU, (COLOR 1)
- (4B) FACE BRICK ON CMU, (COLOR 2)
- (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
- (4D) GLASS BLOCK
- (4E) CONCRETE MASONRY UNIT
- (4F) THROUGH WALL FLASHING
- (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- (4H) CAVITY WALL INSULATION (2" U.N.O.)
- (5A) STRUCTURAL STEEL
- (5B) METAL DECK
- (5C) COLD FORMED METAL FRAMING
- (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
- (5E) STEEL RAILING SYSTEM
- (5F) ALUM. LADDER
- (5G) PTD. ALUM MAST AND TRIM
- (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
- (6B) WOOD TRIM
- (6C) ARCHITECTURAL WOODWORK
- (7A) SPRAY-ON FIREPROOFING
- (7B) BUILT-UP ROOFING SYSTEM
- (7C) PERIMETER INSULATION (2")
- (7D) INSULATED METAL PANEL
- (7E) METAL FLASHING
- (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
- (7G) FORMED ALUMINUM COPING
- (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
- (8A) ALUMINUM WINDOW SYSTEM
- (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- (8C) ALUMINUM CURTAIN WALL
- (8D) HOLLOW METAL FRAME
- (8E) HOLLOW METAL DOOR
- (8F) WOOD DOOR
- (8G) ROOF HATCH
- (8H) TEMPERED GLASS (thickness)
- (8I) INSULATING GLASS UNIT (Ref. to Schedule)
- (9A) GYPSUM BOARD (5/8")
- (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
- (9C) EXTERIOR GYPSUM SOFFIT
- (9D) SUSPENDED ACOUSTIC PANEL CEILING
- (9E) METAL STUDS
- (9F) WALL GUARDS (TYPE)
- (9G) CERAMIC TILE
- (9H) VINYL COMPOSITION TILE
- (9I) SHEET VINYL FLOORING
- (9J) RESILIENT BASE
- (9K) PAINT (Color-Ref. to Schedule)
- (9L) EPOXY PAINT (Color-Ref. to Schedule)
- (10A) VISUAL DISPLAY BOARD
- (10B) TOILET COMPARTMENTS
- (10C) ALUMINUM LOUVER
- (10D) CUBICLE CURTAIN & TRACK
- (10E) METAL LOCKER
- (10F) FIRE EXTINGUISHER AND CABINET
- (10G) OPERABLE PARTITION
- (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
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- (12C) WINDOW TREATMENT - SUN SHADING
- (14A) HYDRAULIC ELEVATOR
- (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
- (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Interior Elevations  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

PROJECT MANAGER  
DATE

CHIEF - PROJ. MGT. & DESIGN  
DATE

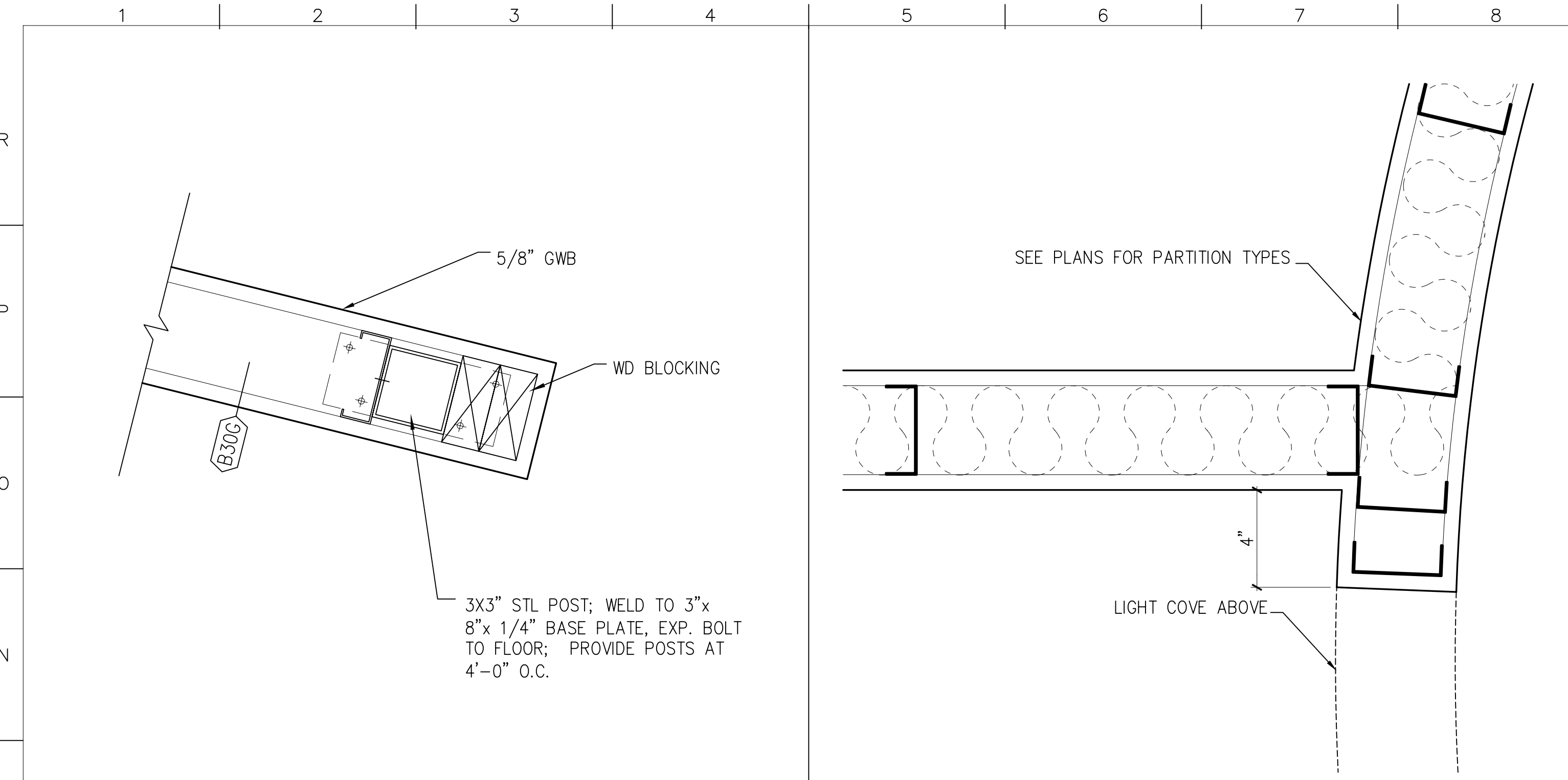
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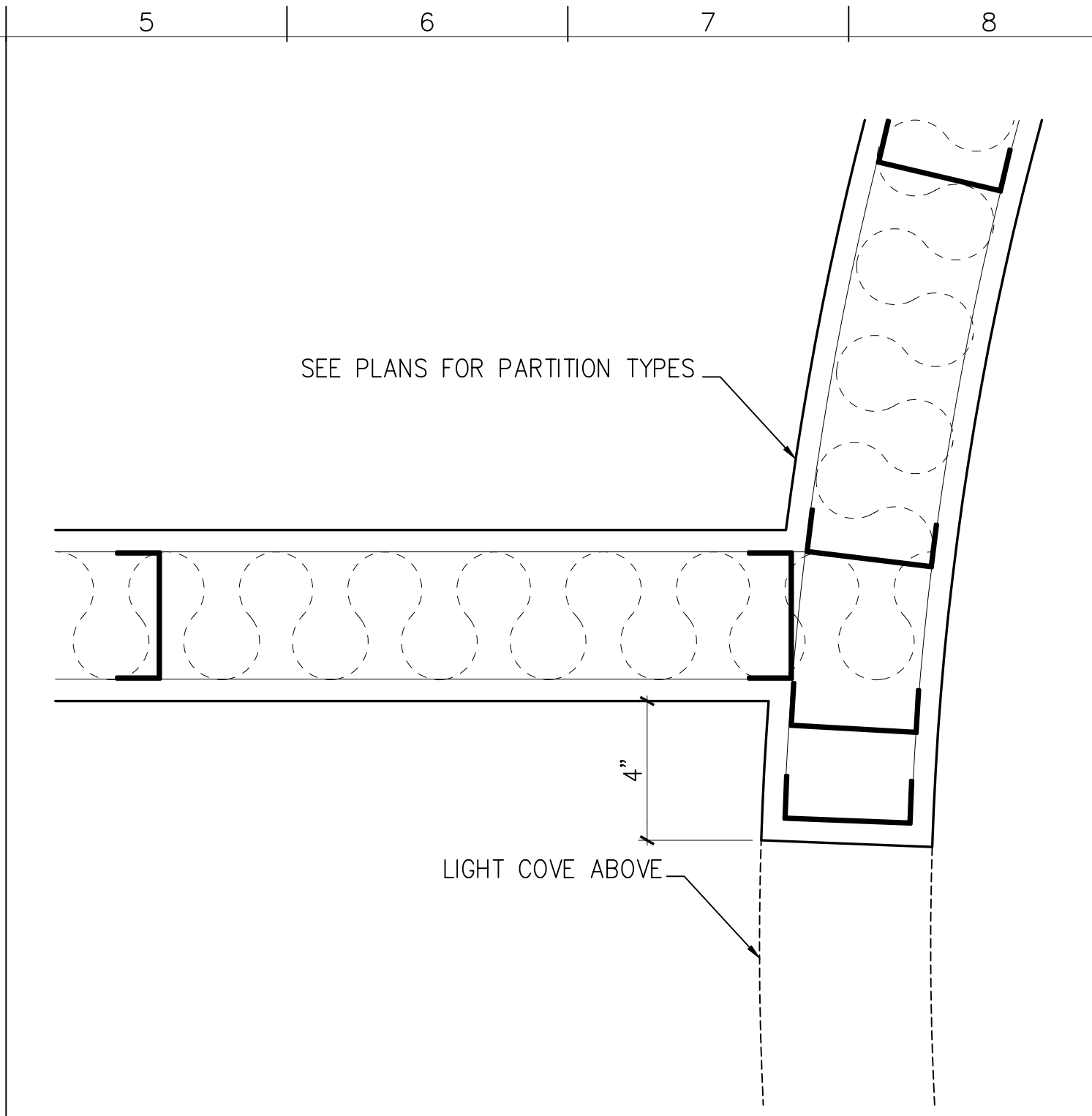
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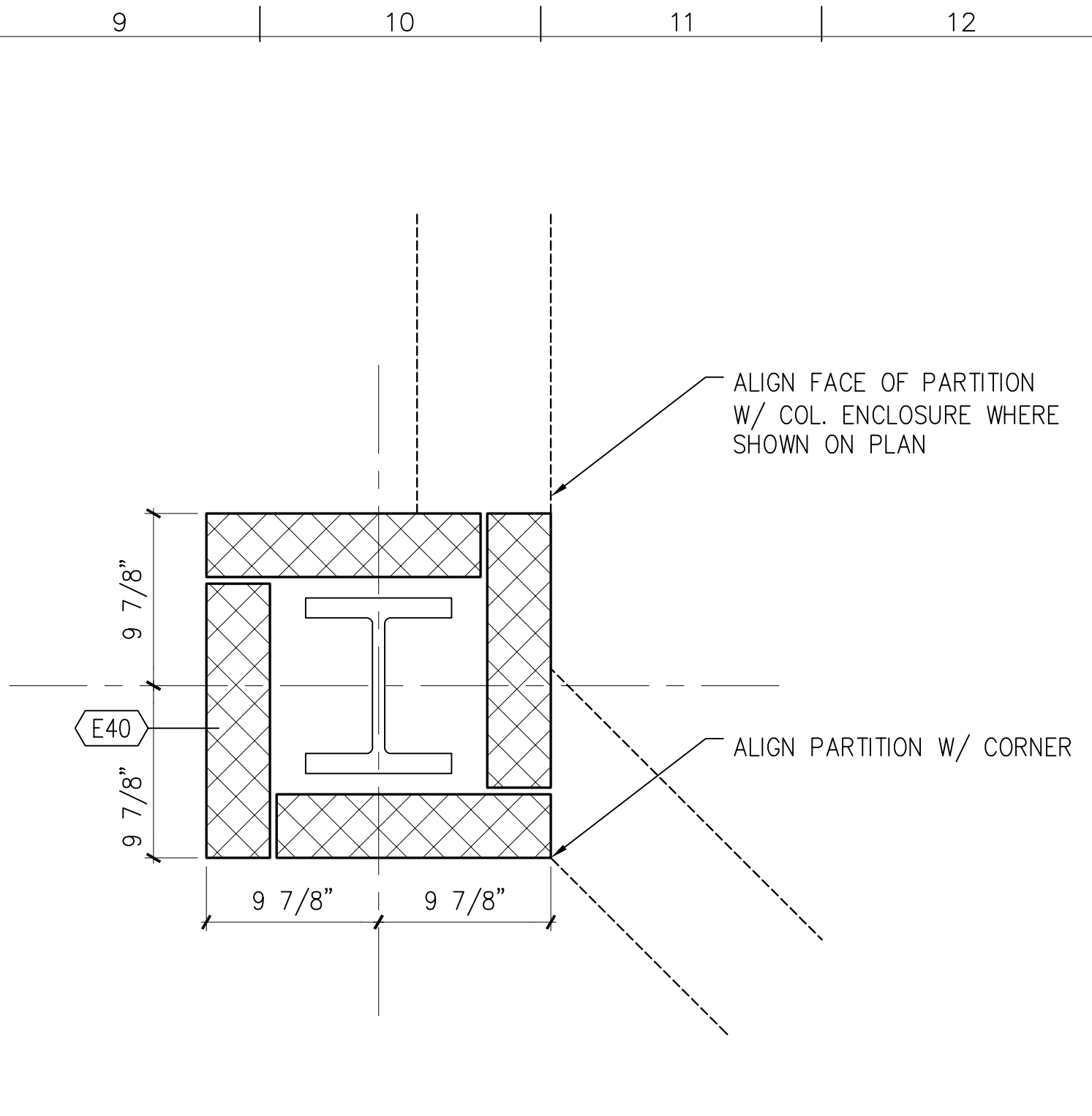
PROJECT NO. 34495.01  
DATE: 2/20/02  
A624  
SHEET X OF XX



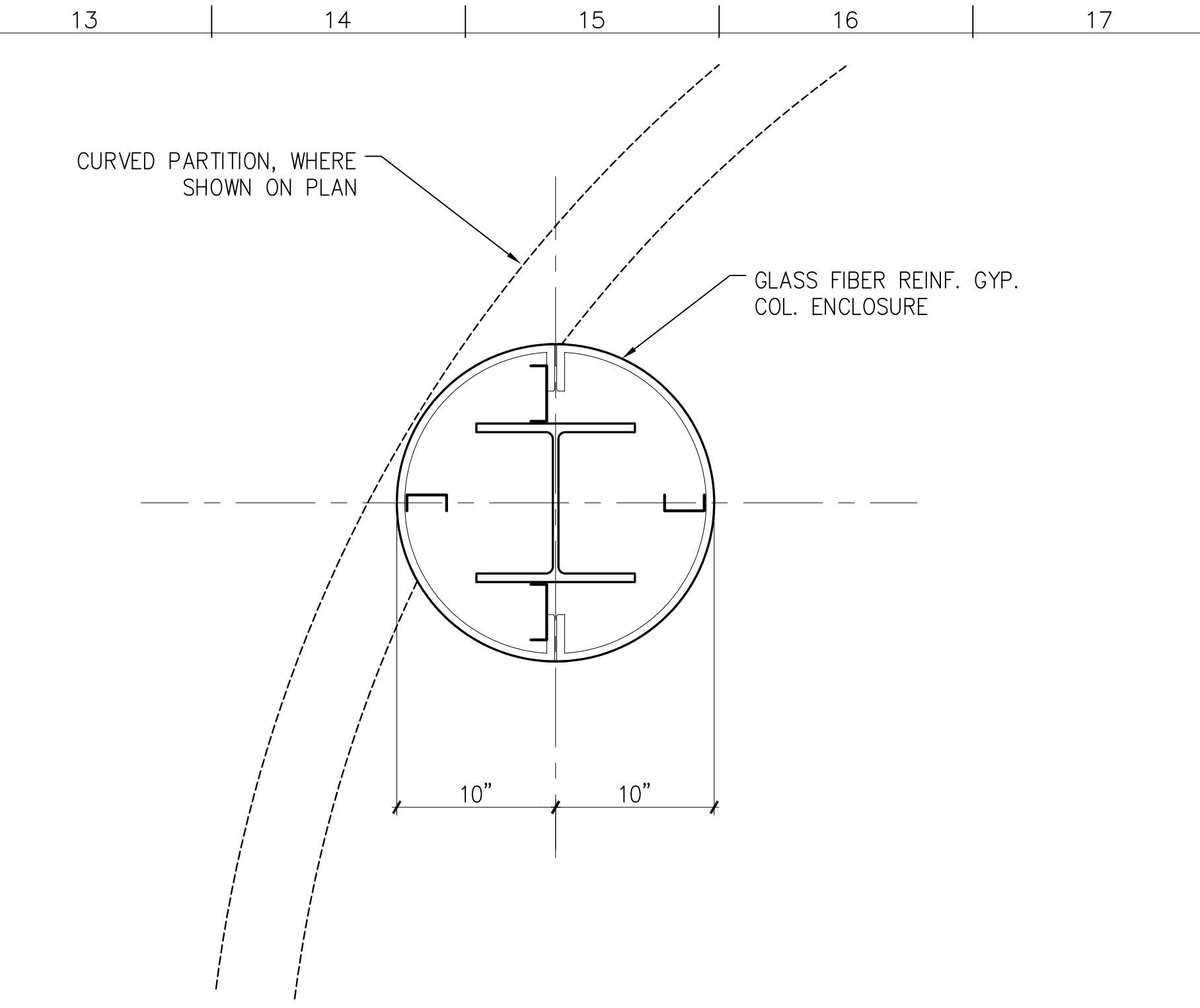
M1 42" LOW WALL DETAIL  
3" = 1'-0" A101



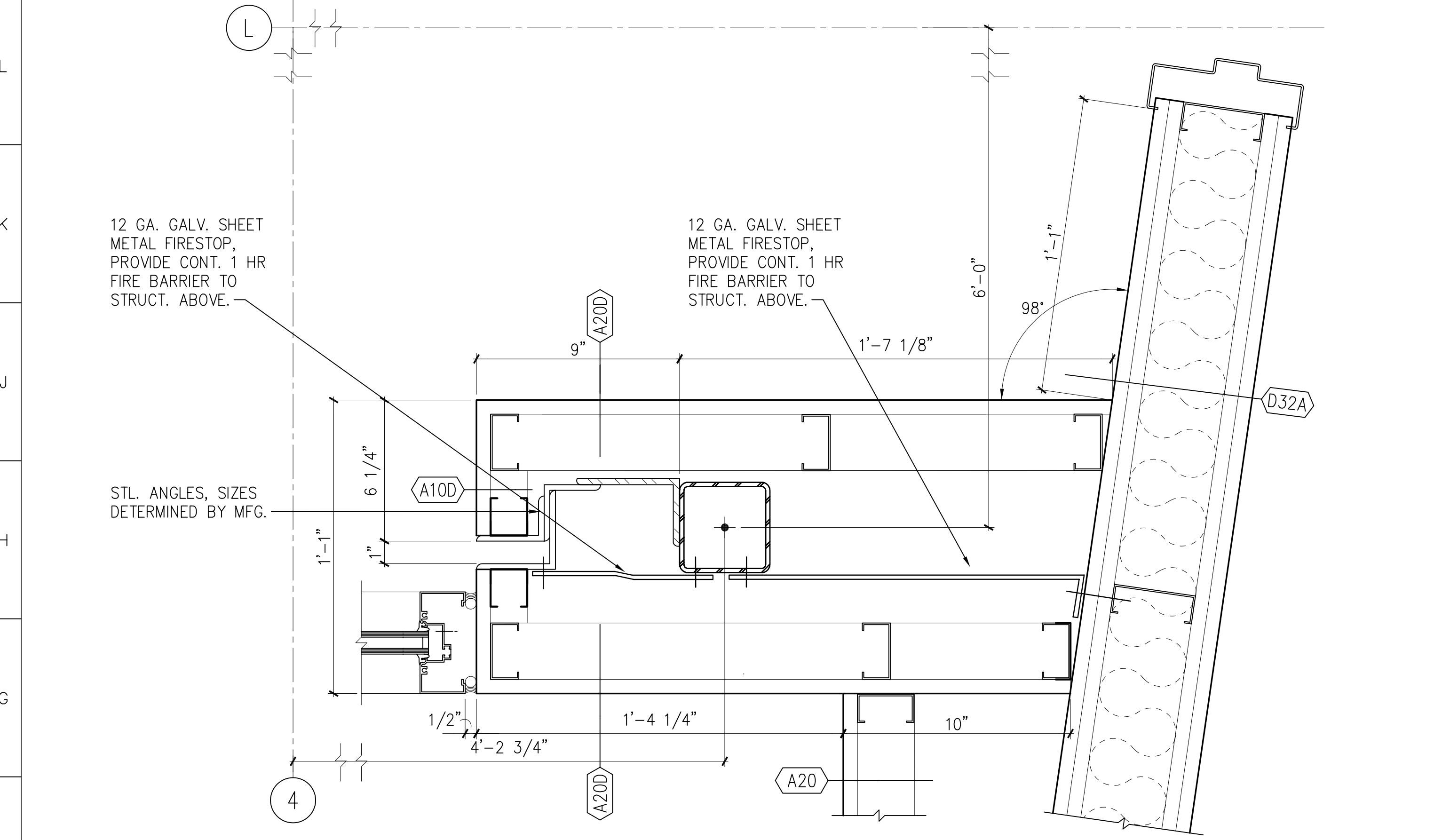
M5 TYP. DET. AT CURVED PTN. END  
3" = 1'-0" A101, A102, A103, A104



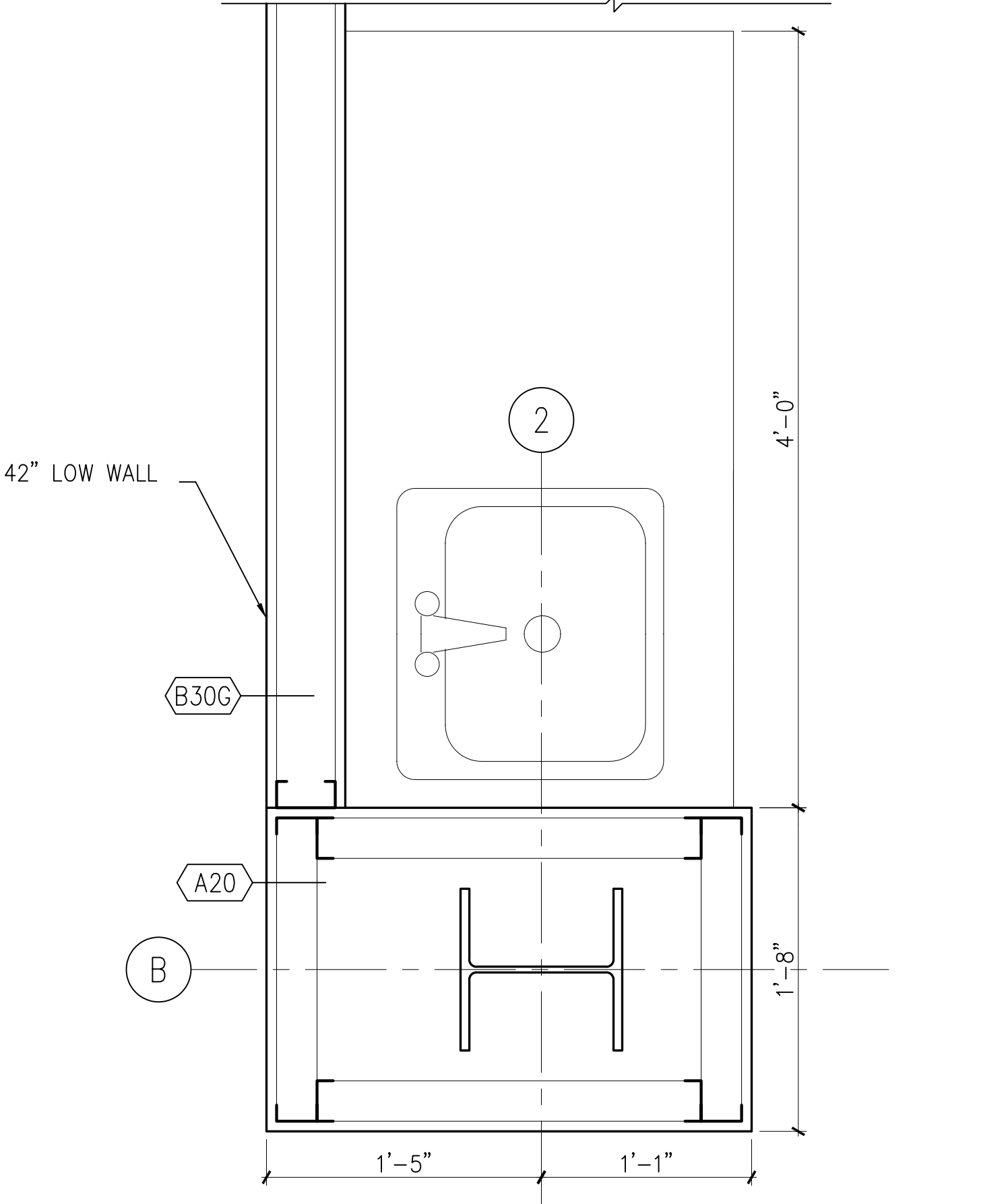
M9 CMU COLUMN ENCLOSURE  
1 1/2" = 1'-0" A100



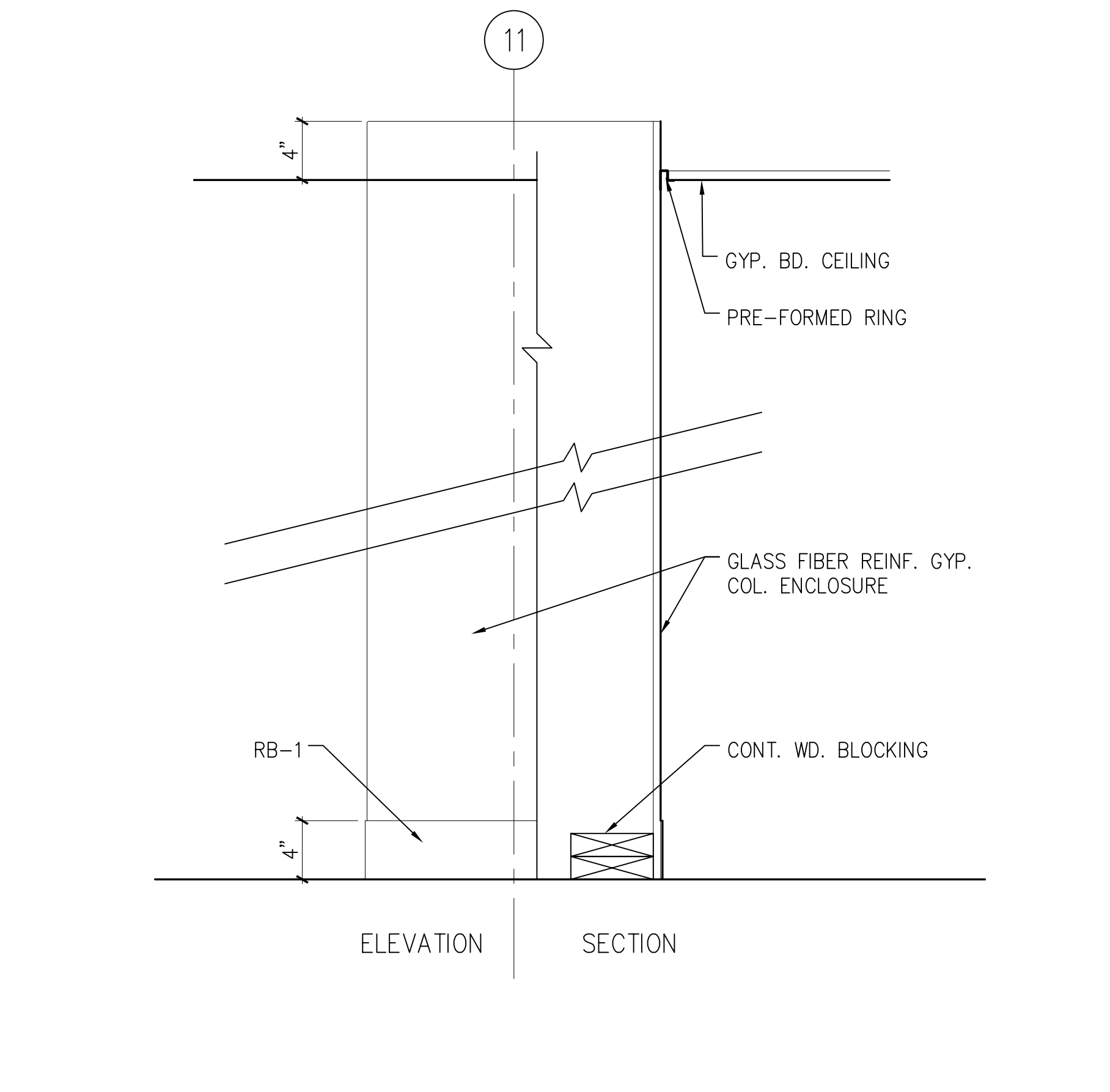
M13 TYPICAL INTERIOR COL. COVER PLAN  
1 1/2" = 1'-0" A101, A102, A103, A104



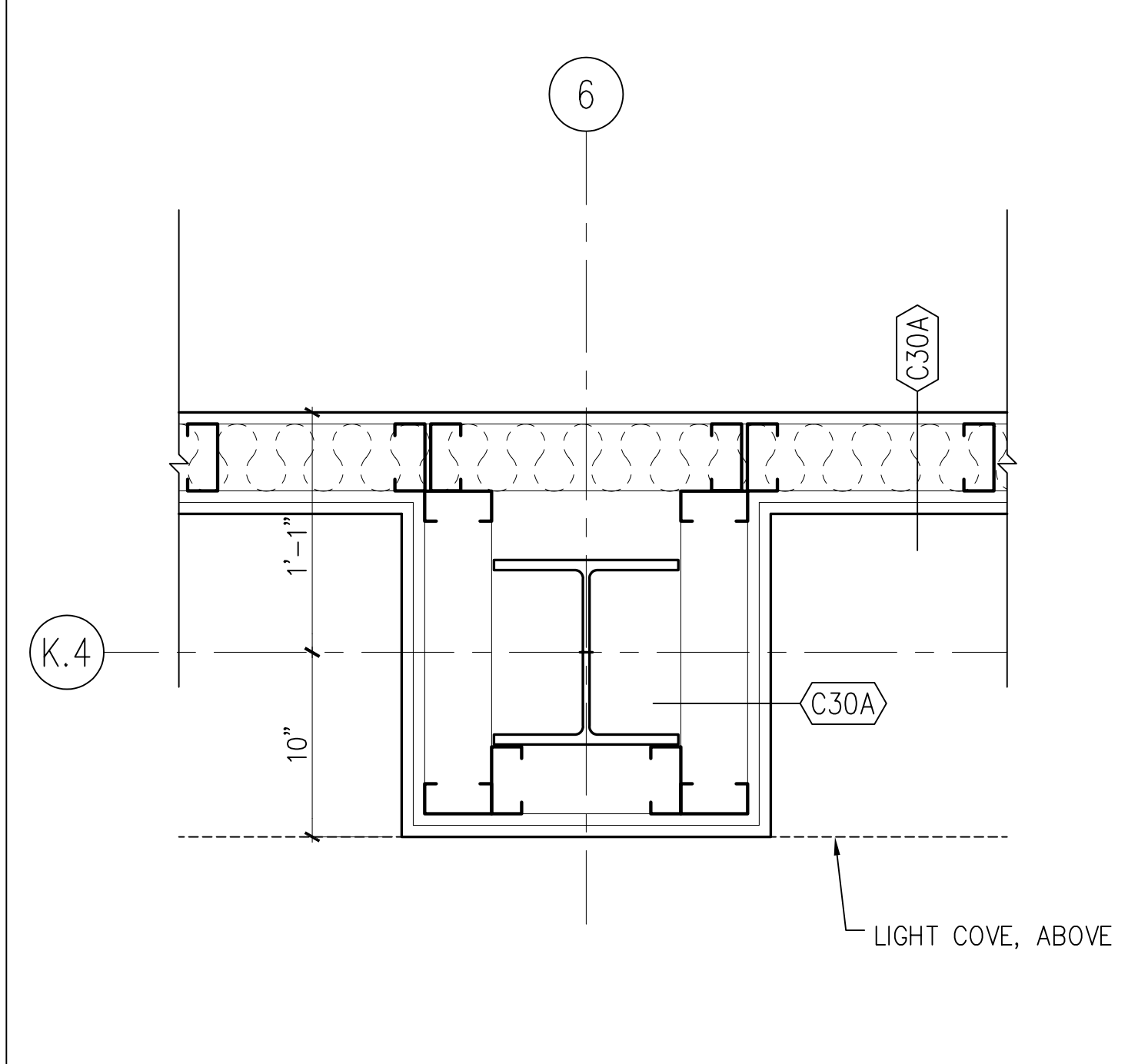
F1 FIRST FLOOR DETAIL  
3" = 1'-0" A9/A501



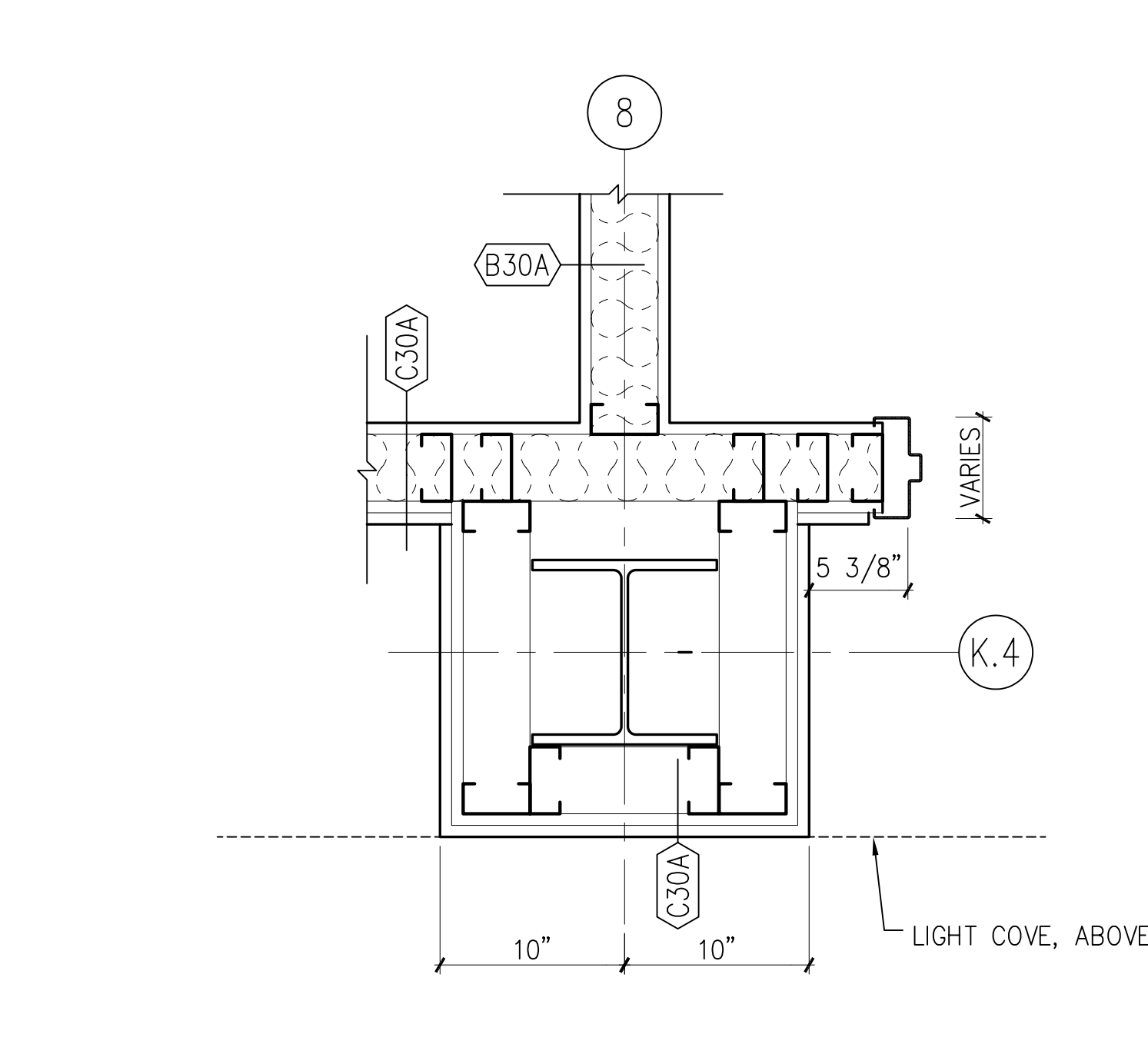
F9 DTL AT NORTH WING, 2ND FLR  
1 1/2" = 1'-0" A102



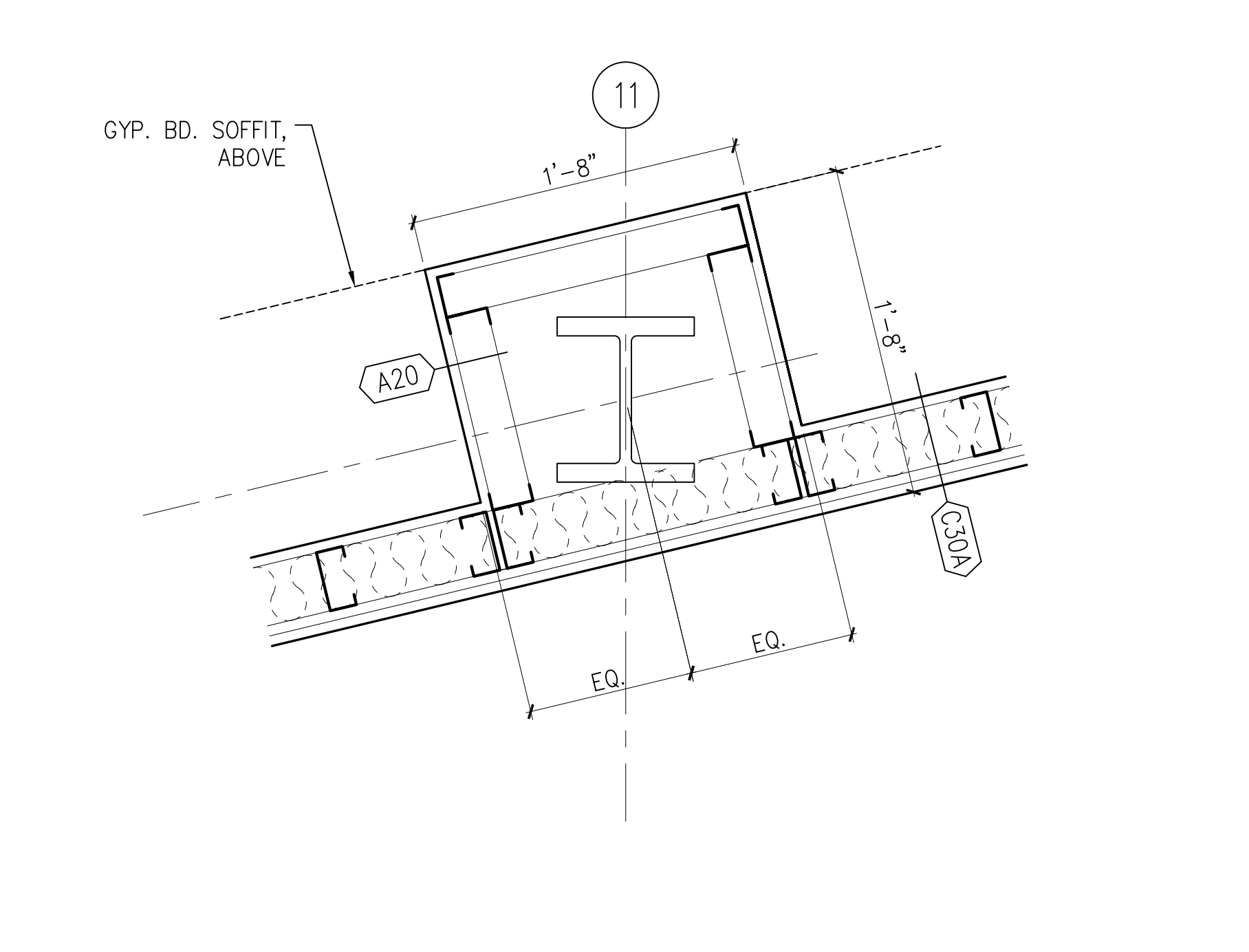
F13 COLUMN COVER SECT./ ELEV.  
1 1/2" = 1'-0" A701



A5 TYPICAL DETAIL  
1 1/2" = 1'-0" A102



A9 DTL AT FIRST/SECOND FLOOR  
1 1/2" = 1'-0" A101, A102



A13 DTL AT FIRST/SECOND FLOOR  
1 1/2" = 1'-0" A101, A102

MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM. MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8I INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9J RESILIENT BASE
- 9K PAINT (Color-Ref. to Schedule)
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- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
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- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
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- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
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REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A701**  
 SHEET 1 OF 22

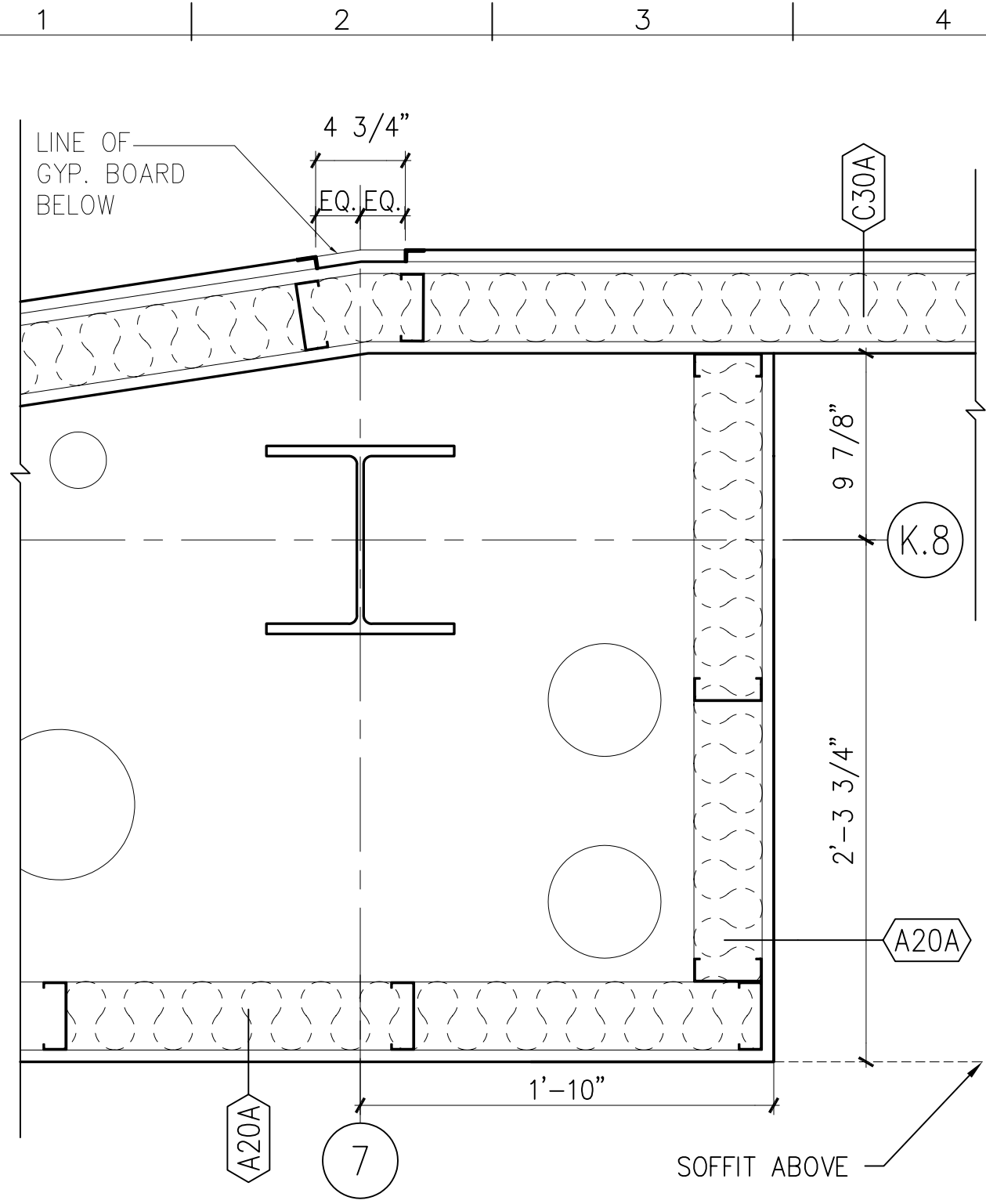
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

HORIZONTAL DETAILS  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

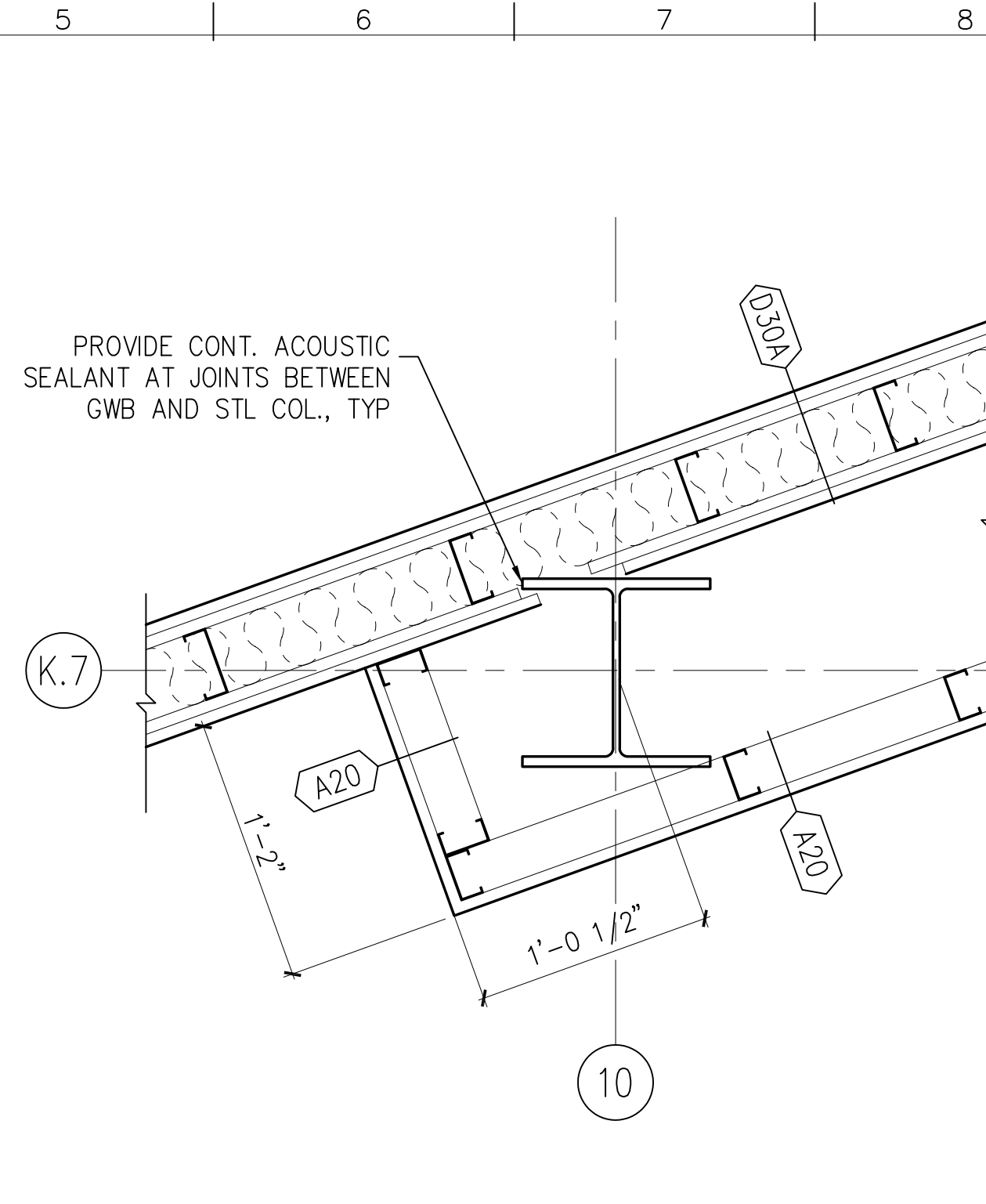
MONTGOMERY COLLEGE  
 APPROVAL  
 DATE

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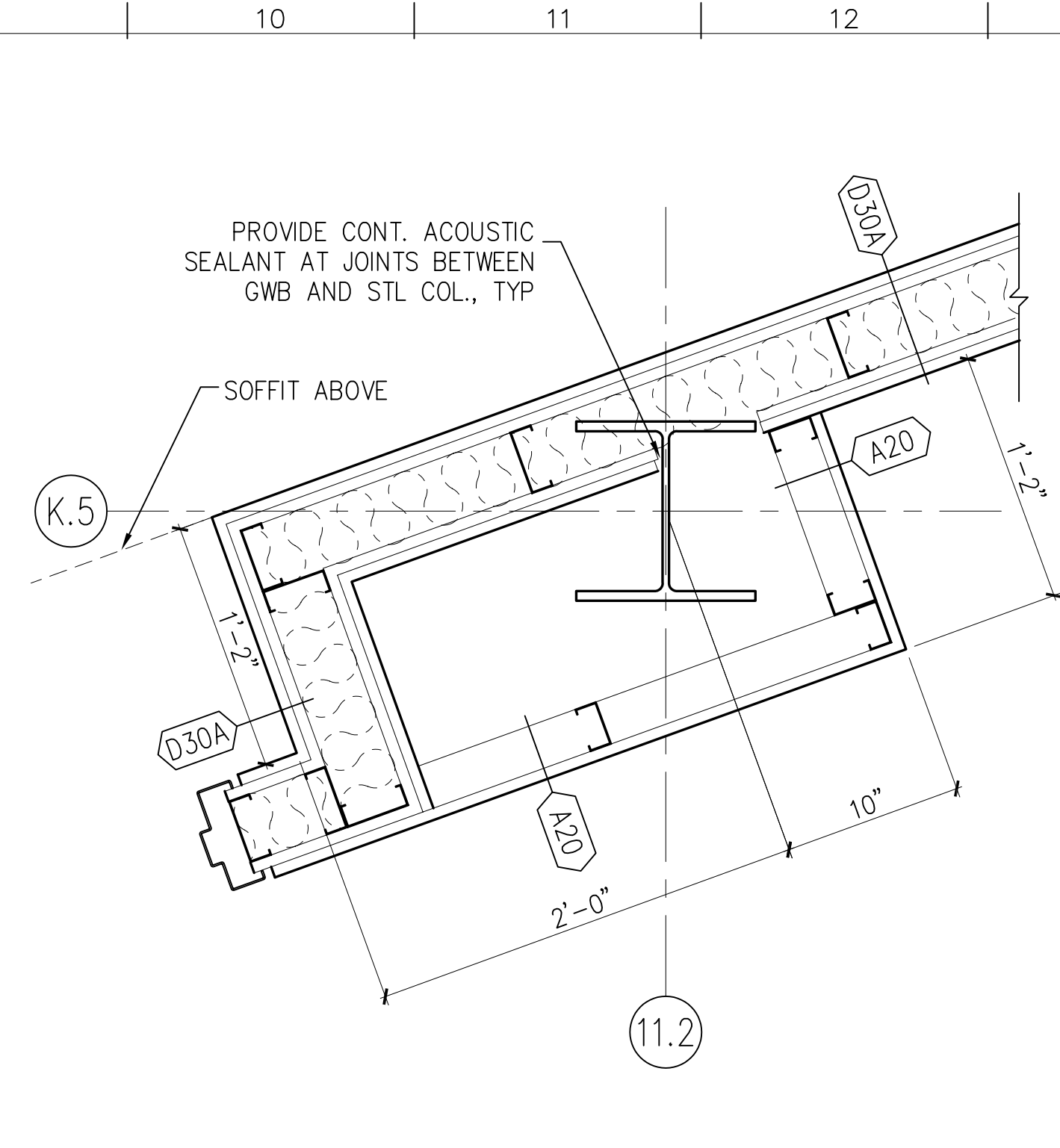
M1 DTL AT THIRD FLOOR

1 1/2" = 1'-0" A103



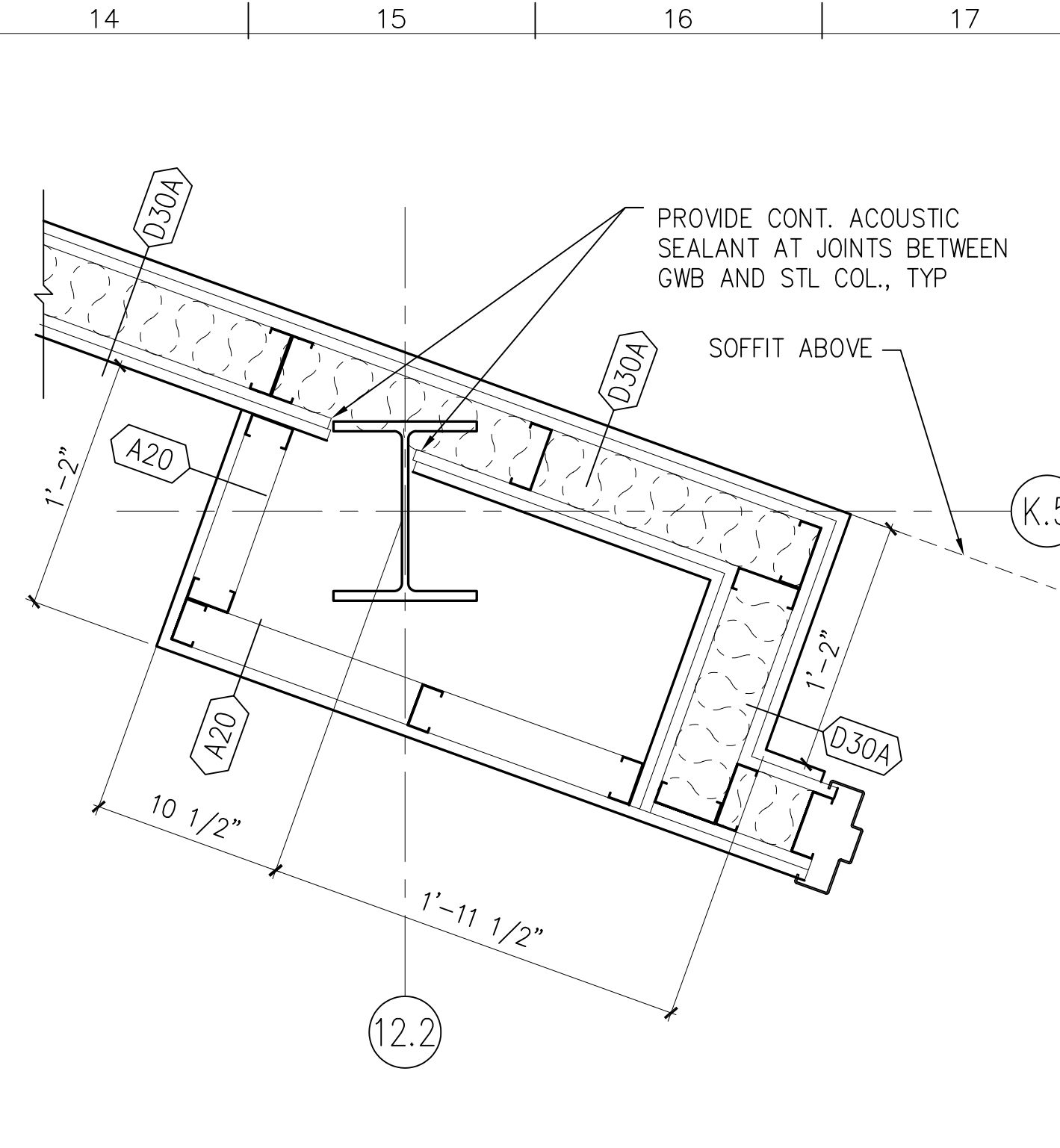
M5 DTL AT THIRD FLOOR

1 1/2" = 1'-0" A101, A102



M9 DTL AT FIRST/SECOND FLOOR

1 1/2" = 1'-0" A101, A102



M13 DETAIL AT FIRST/SECOND FLOOR

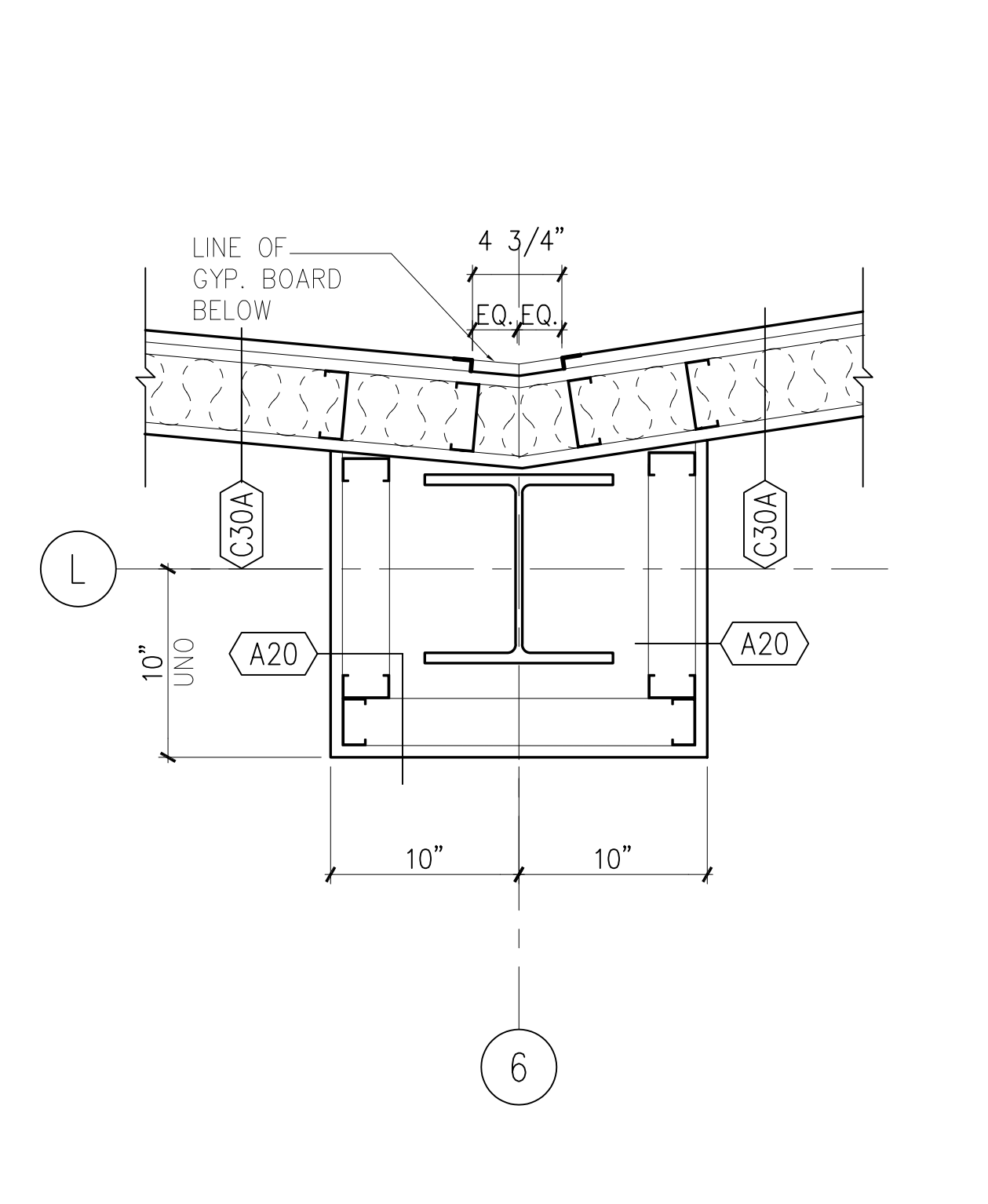
1 1/2" = 1'-0" A101,102

MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
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- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8I INSULATING GLASS UNIT (Ref. to Schedule)
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9J RESILIENT BASE
- 9K PAINT (Color-Ref. to Schedule)
- 9L EPOXY PAINT (Color-Ref. to Schedule)
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
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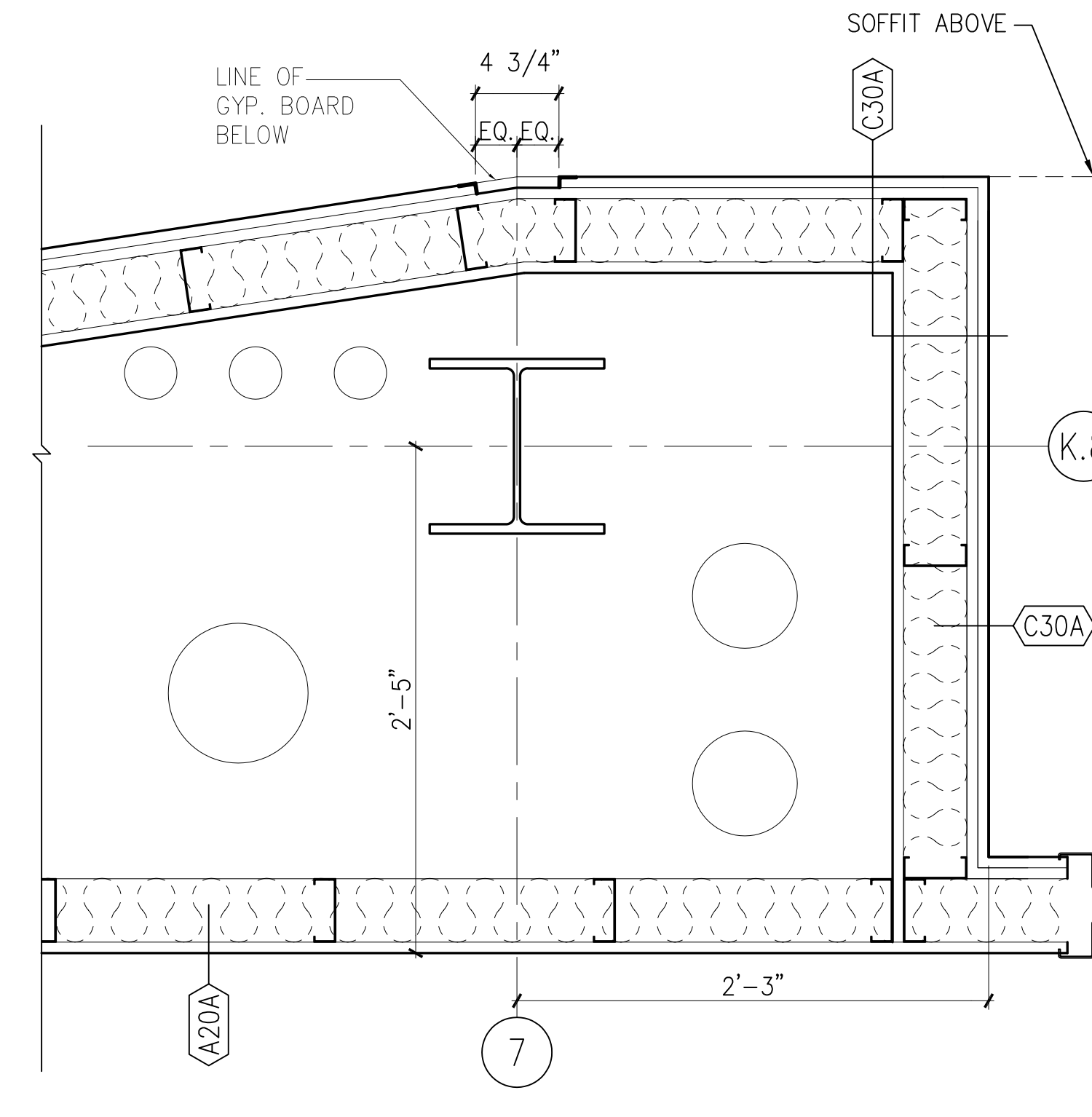
REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date



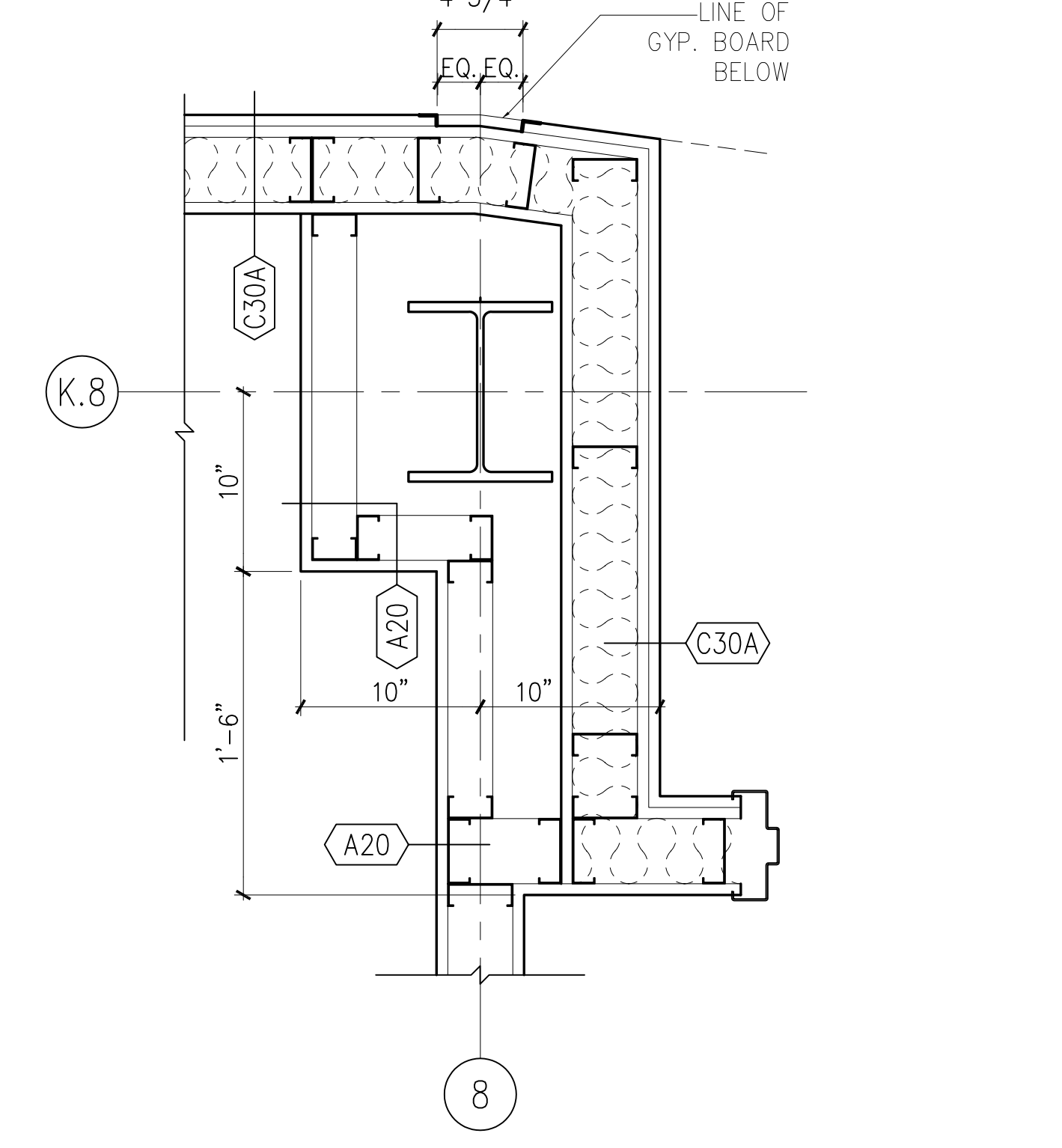
F1 DTL AT SECOND/THIRD FLOOR

1 1/2" = 1'-0" A102, A103



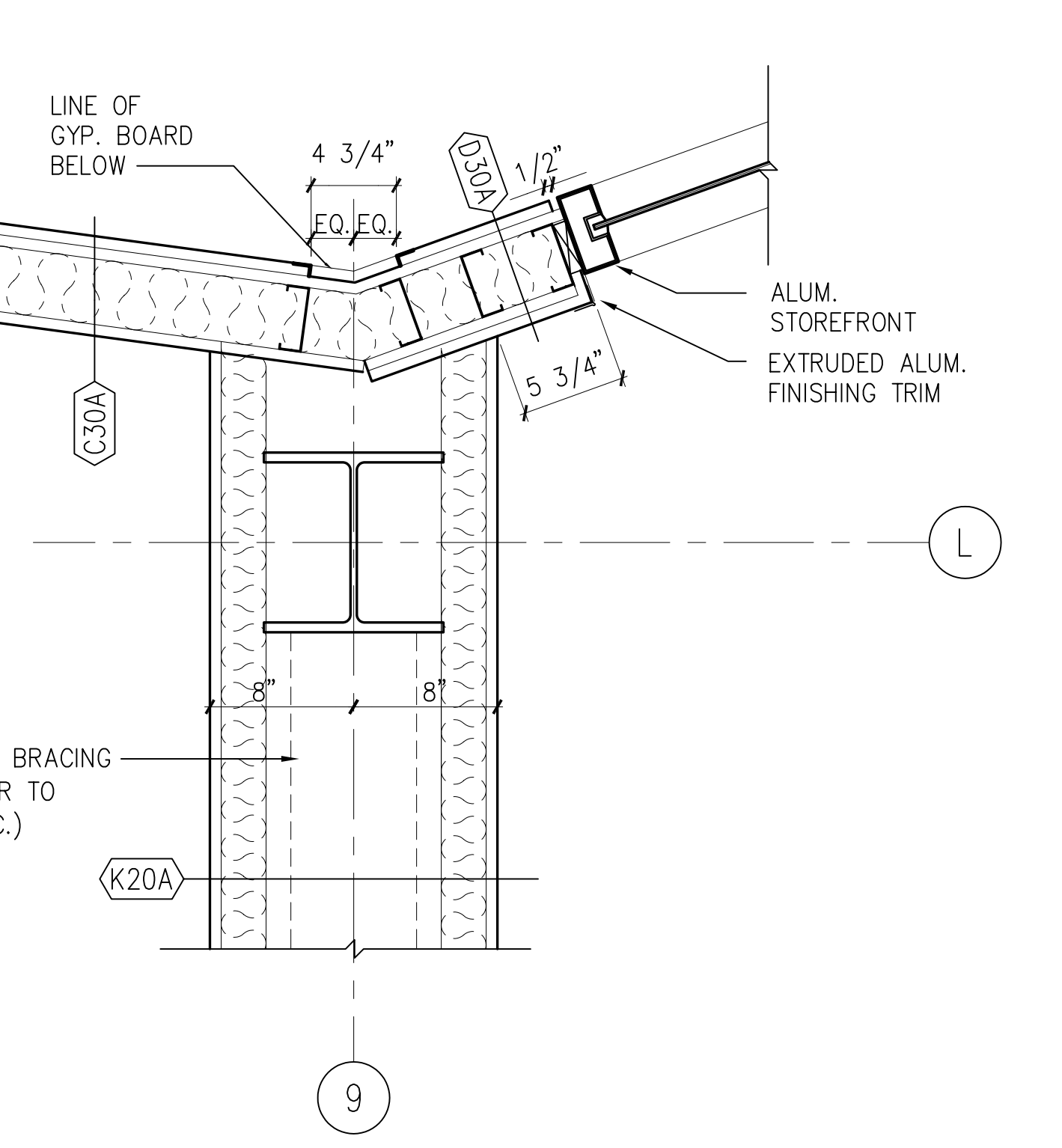
F5 DTL AT SECOND FLOOR

1 1/2" = 1'-0" A102



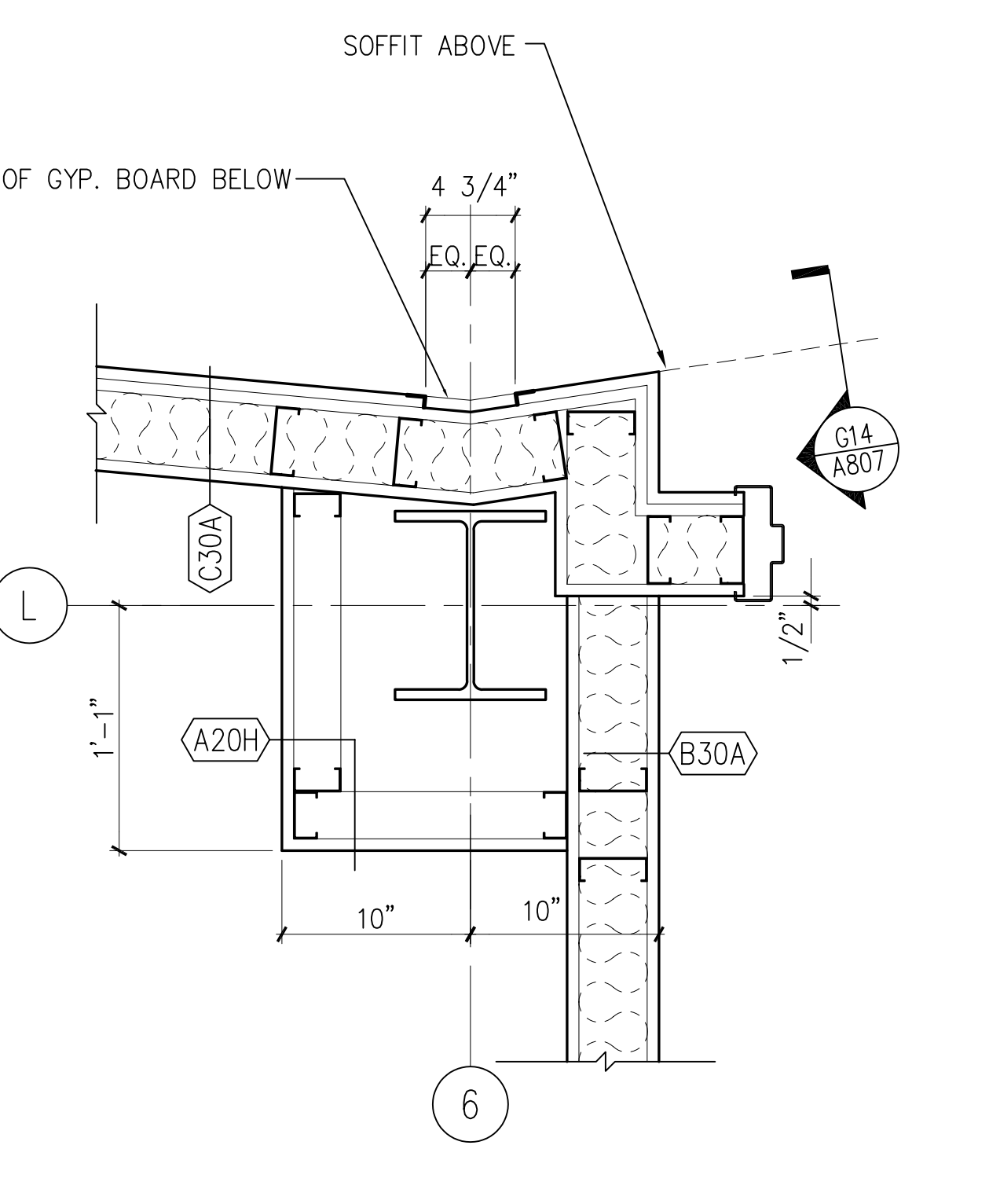
F9 DTL AT THIRD FLOOR

1 1/2" = 1'-0" A103



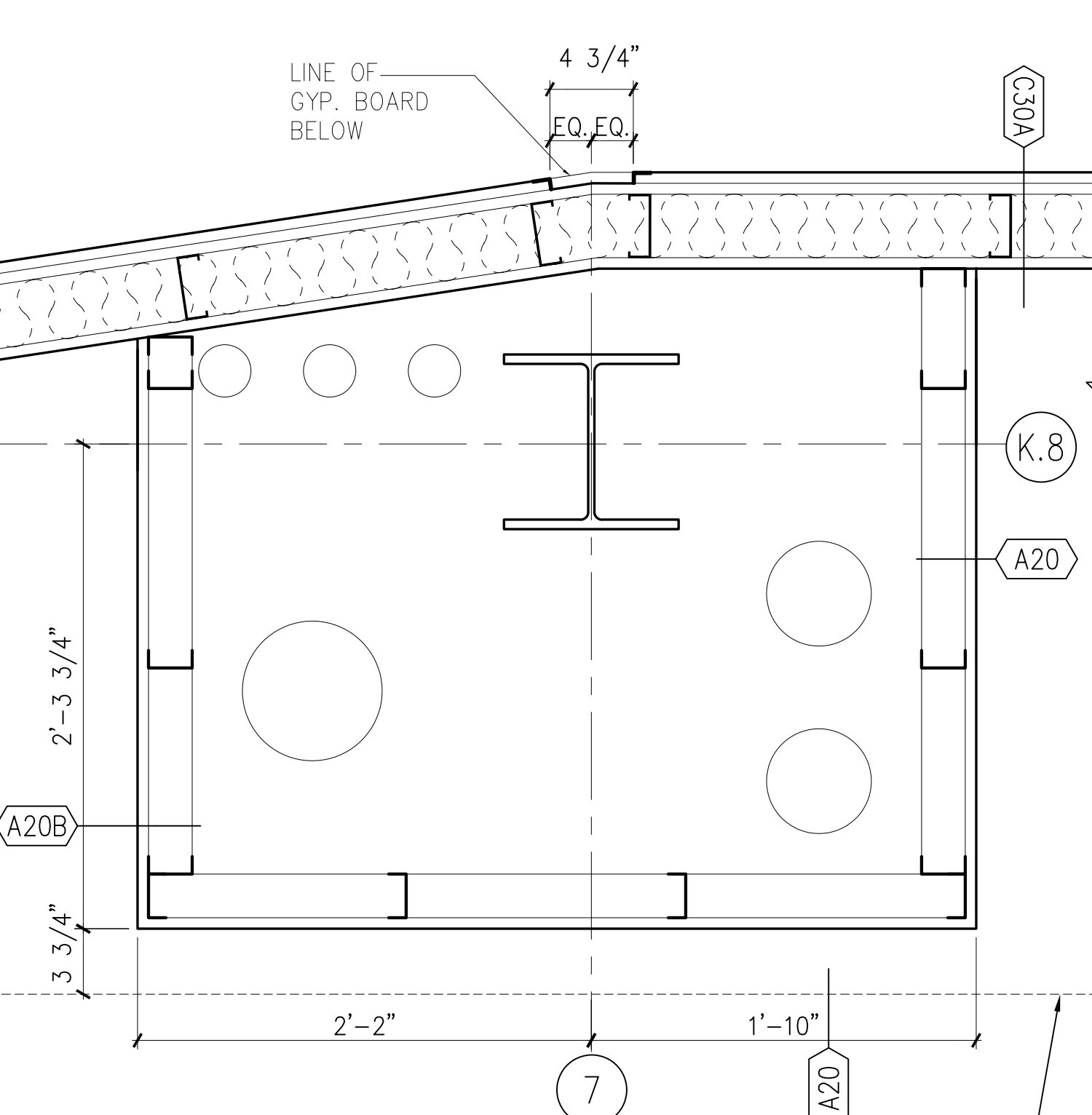
F13 PLAN DETAIL AT SECOND FLOOR

1 1/2" = 1'-0" A102



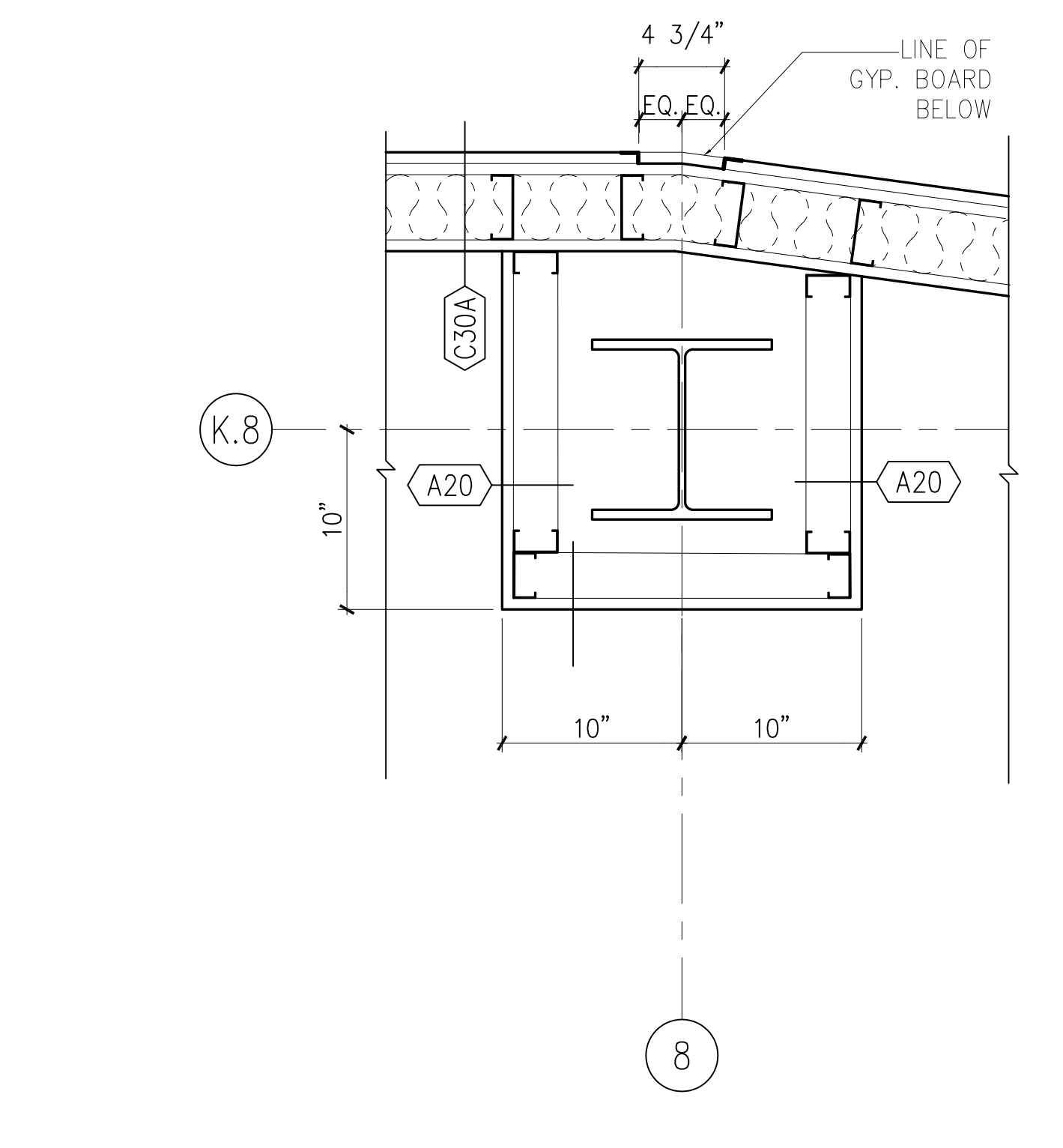
A1 DETAIL AT FIRST FLOOR

1 1/2" = 1'-0" A101



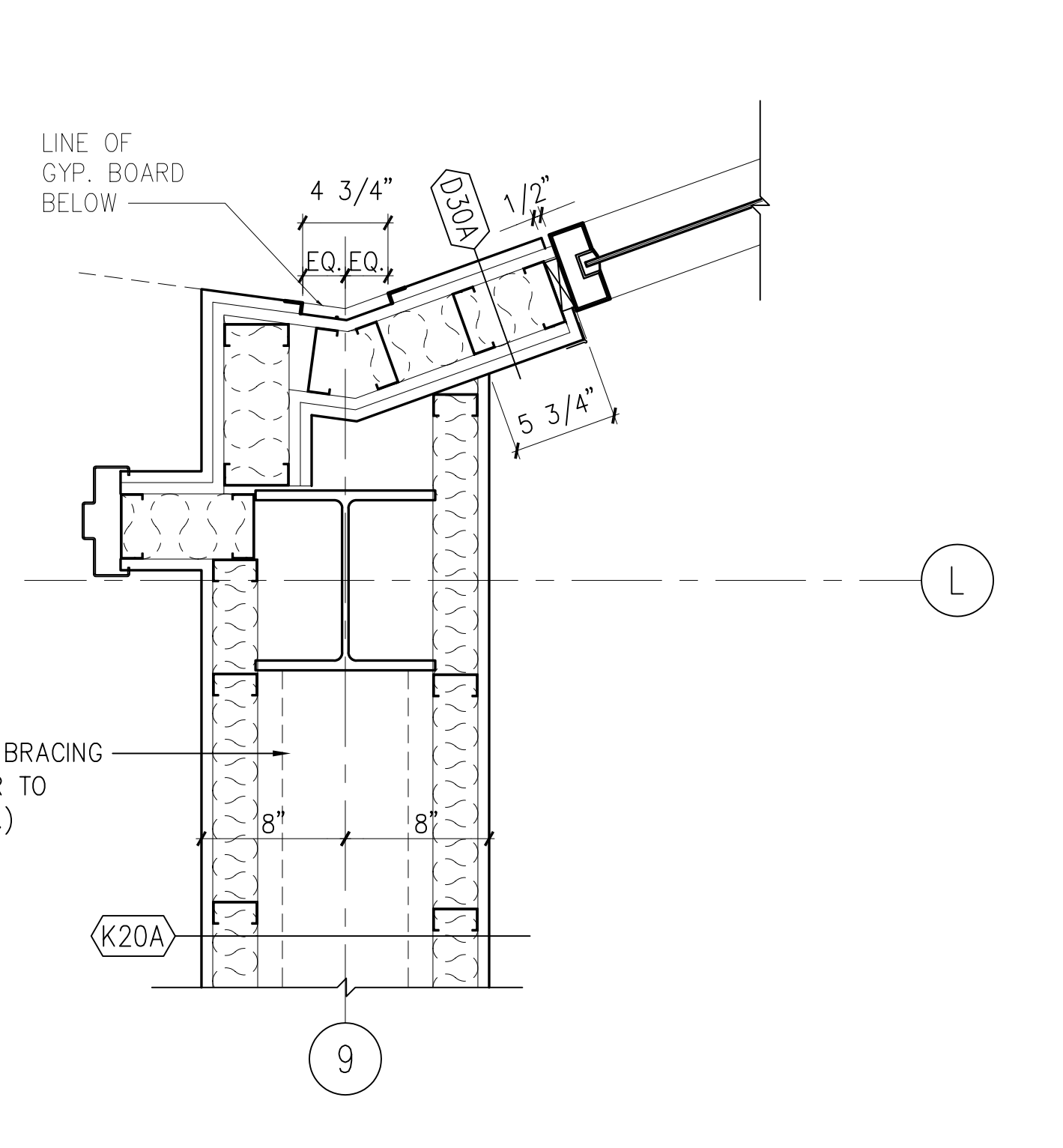
A5 DTL AT FIRST FLOOR

1 1/2" = 1'-0" A101



A9 DTL. AT FIRST/SECOND FLOOR

1 1/2" = 1'-0" A101, A102



A13 PLAN DETAIL AT FIRST FLOOR

1 1/2" = 1'-0" A101

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A702**  
 SHEET X OF XX

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

Horizontal Details  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE  
 DATE

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MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
- 3B CONCRETE SLAB ON GRADE
- 3C CONCRETE SLAB ON METAL DECK
- 3D SLAB EDGE
- 4A FACE BRICK ON CMU, (COLOR 1)
- 4B FACE BRICK ON CMU, (COLOR 2)
- 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
- 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
- 4D GLASS BLOCK
- 4E CONCRETE MASONRY UNIT
- 4F THROUGH WALL FLASHING
- 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
- 4H CAVITY WALL INSULATION (2" U.N.O.)
- 5A STRUCTURAL STEEL
- 5B METAL DECK
- 5C COLD FORMED METAL FRAMING
- 5D GALV. STEEL RELIEVING ANGLE/LINTEL
- 5E STEEL RAILING SYSTEM
- 5F ALUM. LADDER
- 5G PTD. ALUM MAST AND TRIM
- 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING

- 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
- 6B WOOD TRIM
- 6C ARCHITECTURAL WOODWORK
- 7A SPRAY-ON FIREPROOFING
- 7B BUILT-UP ROOFING SYSTEM
- 7C PERIMETER INSULATION (2")
- 7D INSULATED METAL PANEL
- 7E METAL FLASHING
- 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
- 7G FORMED ALUMINUM COPING
- 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM

- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8I INSULATING GLASS UNIT (Ref. to Schedule)

- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9J RESILIENT BASE
- 9K PAINT (Color-Ref. to Schedule)
- 9L EPOXY PAINT (Color-Ref. to Schedule)

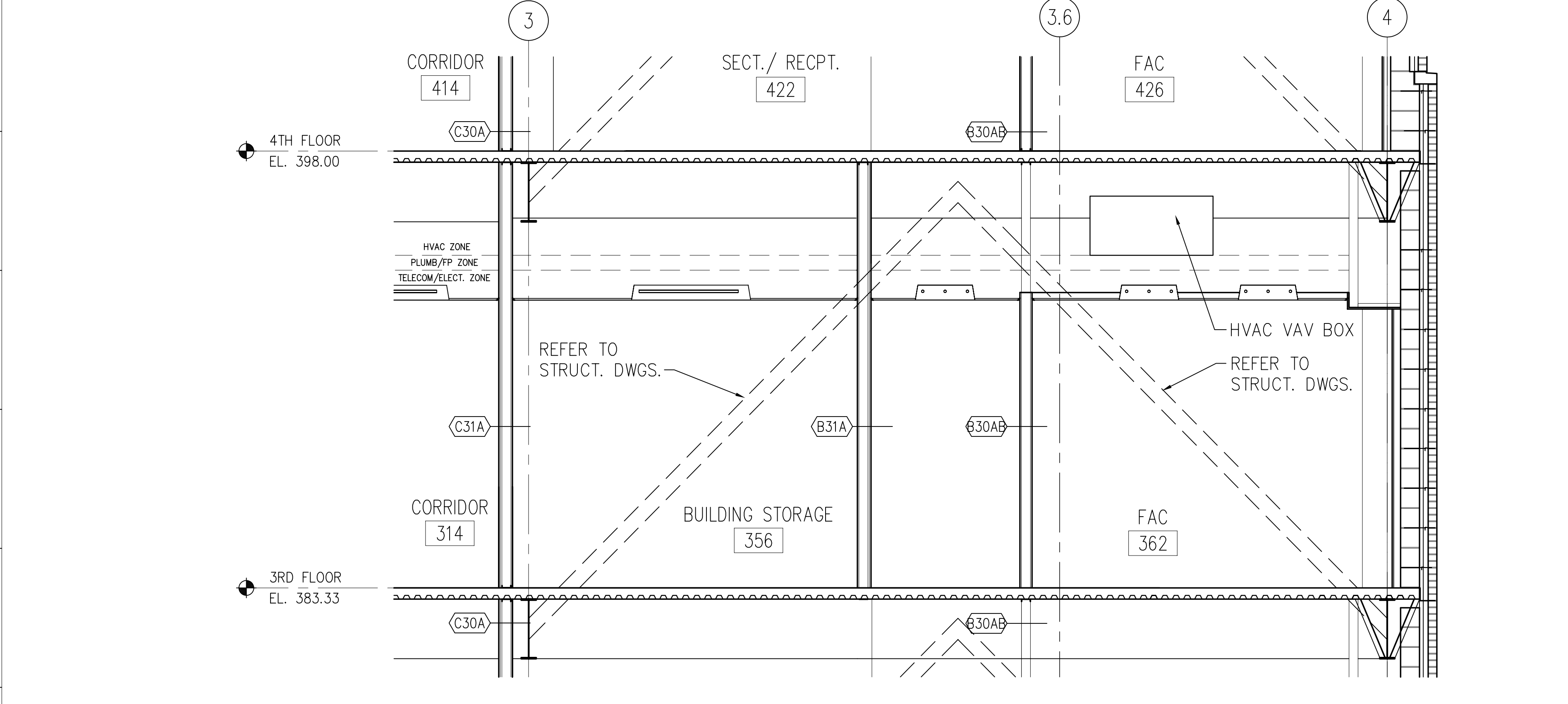
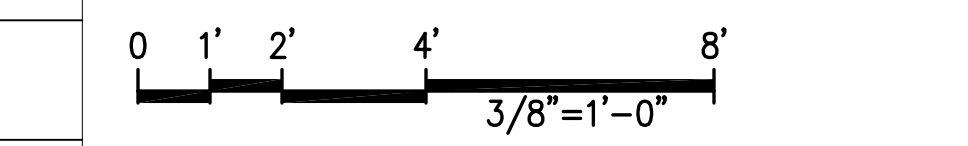
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)

- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING

- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.

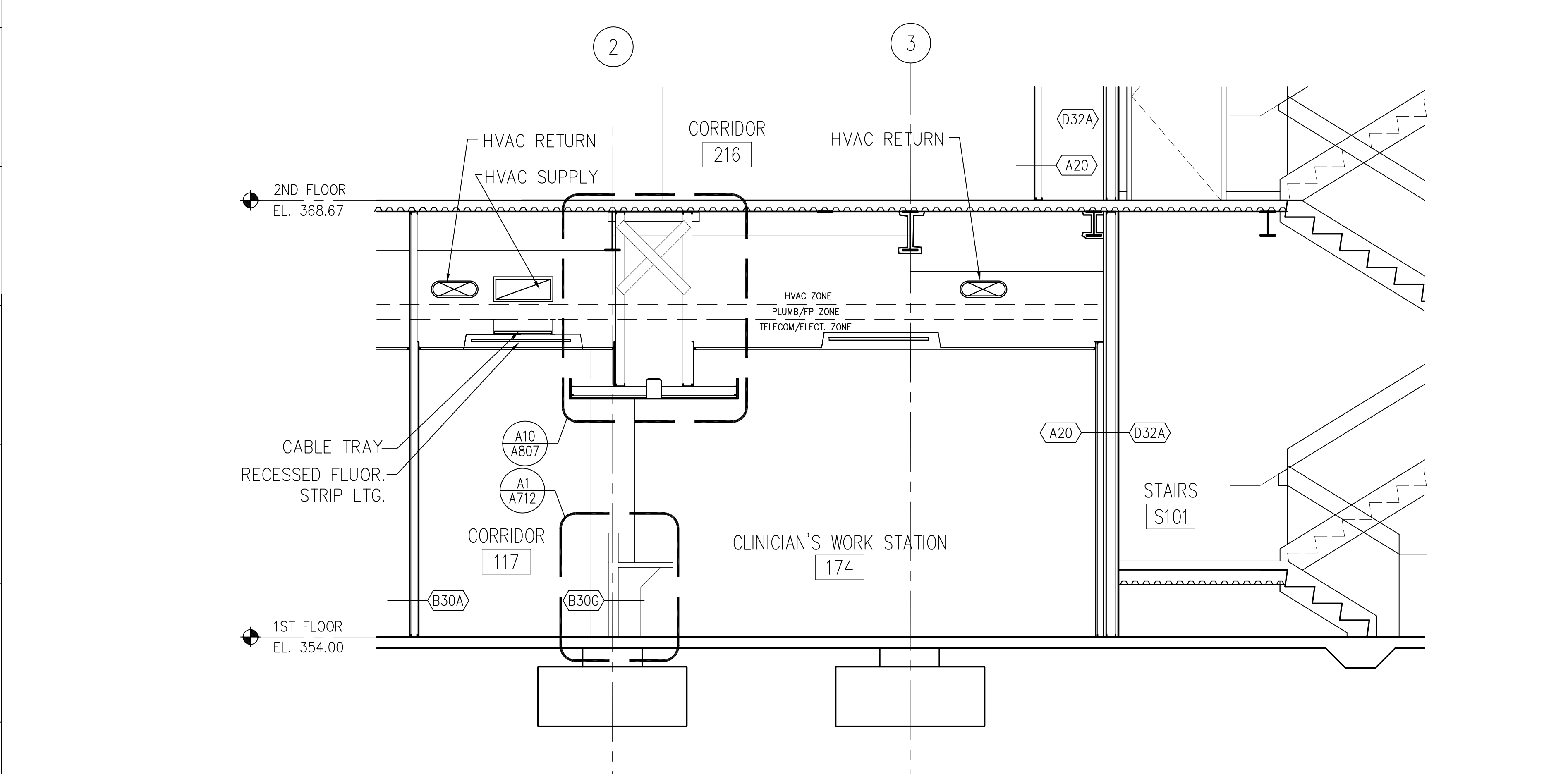
REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

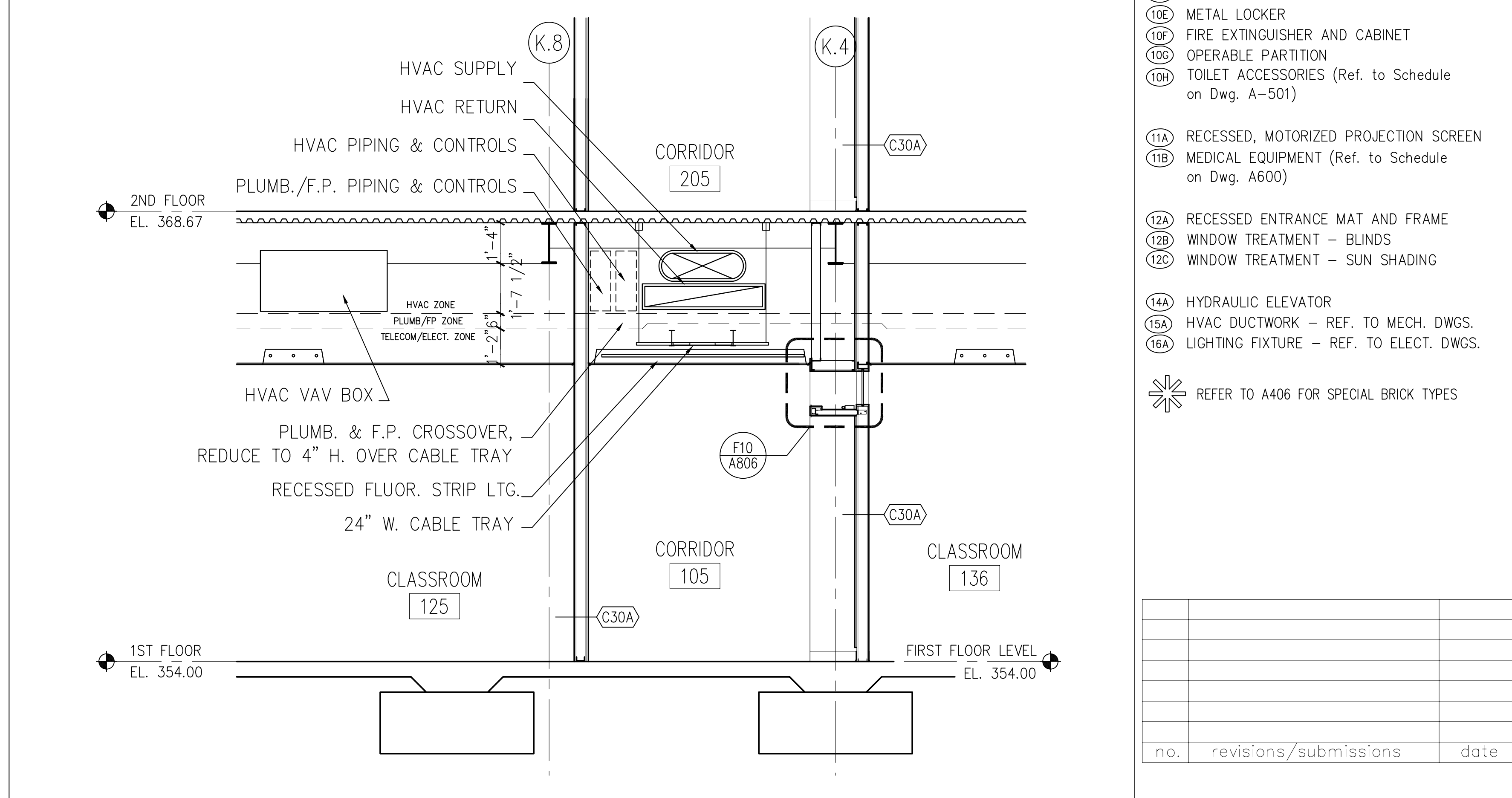


G1 NORTH WING, THIRD FLOOR OFFICE CORRIDOR SECTION  
3/8"=1'-0" A13/301

G11 EAST WING, THIRD FLOOR CORRIDOR SECTION  
3/8"=1'-0" A1/302



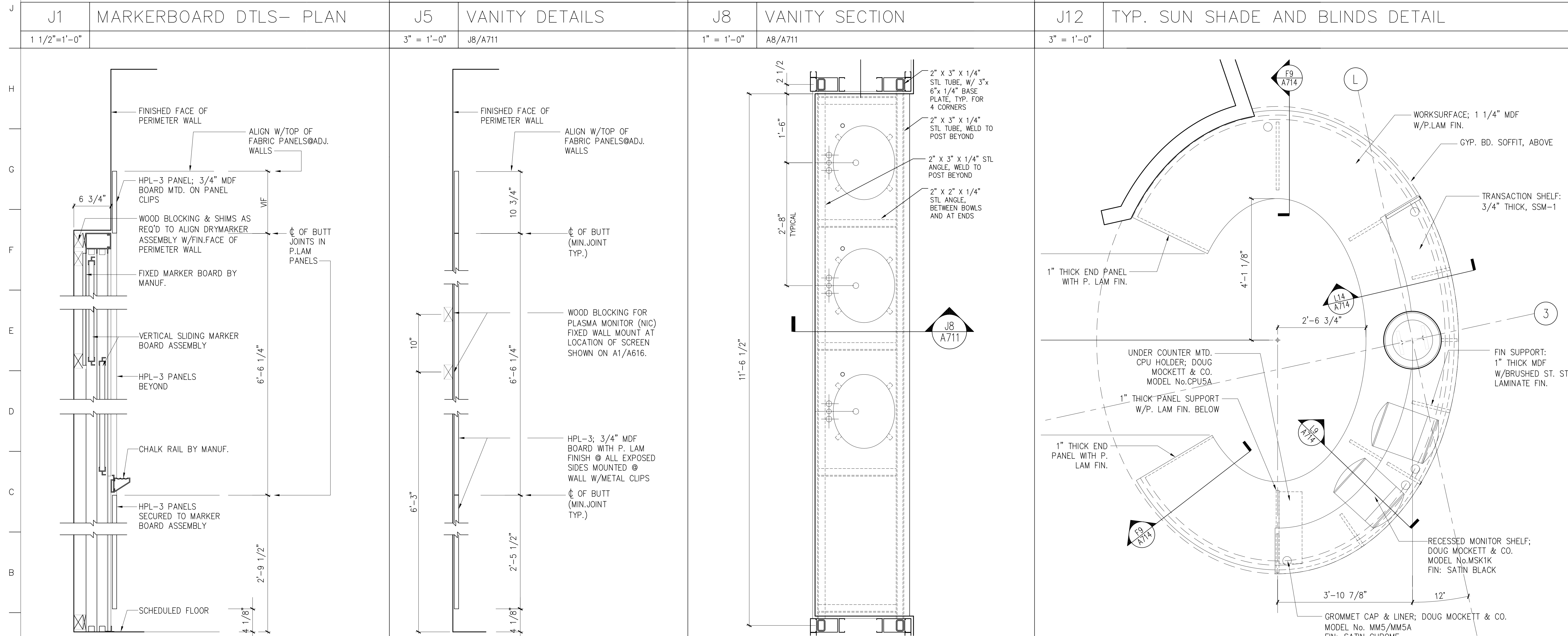
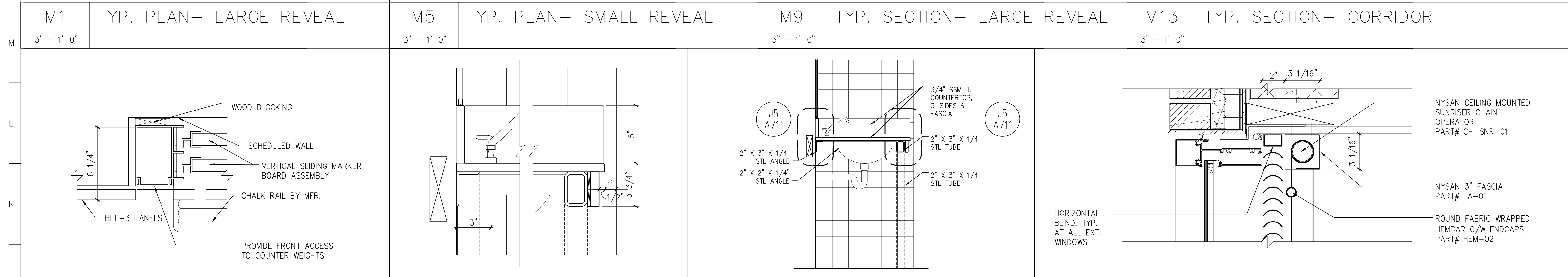
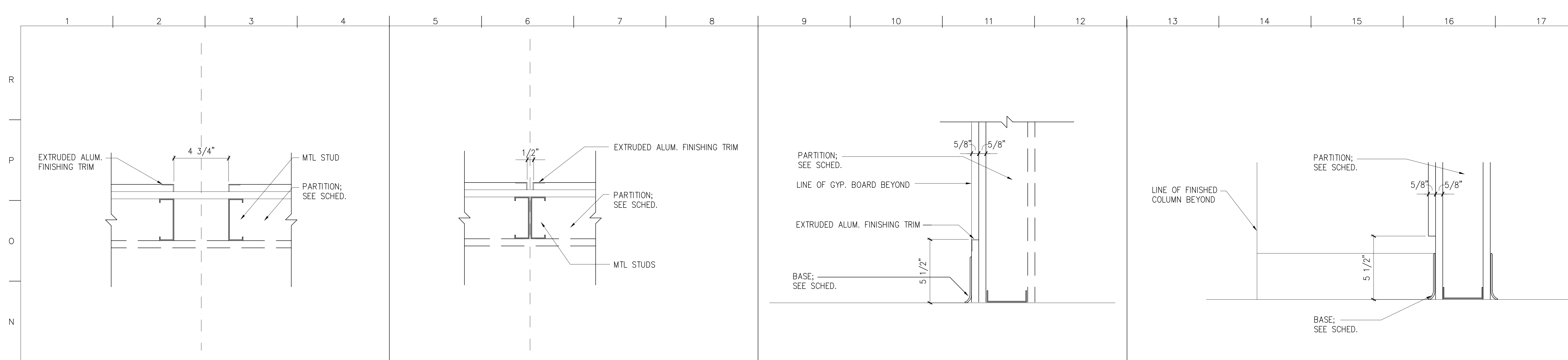
A1 NORTH WING, FIRST FLOOR AT CLINIC AND STAIR 1  
3/8"=1'-0" A13/301



A11 EAST WING, FIRST FLOOR CORRIDOR SECTION  
3/8"=1'-0" A1/302

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE  
 MONTGOMERY COLLEGE APPROVAL  
 Interior Sections  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-97/98-318  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 PROJECT NO. 34495.01  
 DATE: 2/20/02  
 A710  
 SHEET 1 OF XX

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**MATERIAL KEYED NOTES**

- 3A CONCRETE STRUCTURE
  - 3B CONCRETE SLAB ON GRADE
  - 3C CONCRETE SLAB ON METAL DECK
  - 3D SLAB EDGE
  - 4A FACE BRICK ON CMU, (COLOR 1)
  - 4B FACE BRICK ON CMU, (COLOR 2)
  - 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
  - 4D GLASS BLOCK
  - 4E CONCRETE MASONRY UNIT
  - 4F THROUGH WALL FLASHING
  - 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
  - 4H CAVITY WALL INSULATION (2" U.N.O.)
  - 5A STRUCTURAL STEEL
  - 5B METAL DECK
  - 5C COLD FORMED METAL FRAMING
  - 5D GALV. STEEL RELIEVING ANGLE/LINTEL
  - 5E STEEL RAILING SYSTEM
  - 5F ALUM. LADDER
  - 5G PTD. ALUM. MAST AND TRIM
  - 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
  - 6B WOOD TRIM
  - 6C ARCHITECTURAL WOODWORK
  - 7A SPRAY-ON FIREPROOFING
  - 7B BUILT-UP ROOFING SYSTEM
  - 7C PERIMETER INSULATION (2")
  - 7D INSULATED METAL PANEL
  - 7E METAL FLASHING
  - 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - 7G FORMED ALUMINUM COPING
  - 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - 8A ALUMINUM WINDOW SYSTEM
  - 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - 8C ALUMINUM CURTAIN WALL
  - 8D HOLLOW METAL FRAME
  - 8E HOLLOW METAL DOOR
  - 8F WOOD DOOR
  - 8G ROOF HATCH
  - 8H TEMPERED GLASS (thickness)
  - 8I INSULATING GLASS UNIT (Ref. to Schedule)
  - 9A GYPSUM BOARD (5/8")
  - 9B EXTRUDED ALUM. REVEAL MOULDING (dim)
  - 9C EXTERIOR GYPSUM SOFFIT
  - 9D SUSPENDED ACOUSTIC PANEL CEILING
  - 9E METAL STUDS
  - 9F WALL GUARDS (TYPE)
  - 9G CERAMIC TILE
  - 9H VINYL COMPOSITION TILE
  - 9I SHEET VINYL FLOORING
  - 9K RESILIENT BASE
  - 9L PAINT (Color-Ref. to Schedule)
  - 9M EPOXY PAINT (Color-Ref. to Schedule)
  - 10A VISUAL DISPLAY BOARD
  - 10B TOILET COMPARTMENTS
  - 10C ALUMINUM LOUVER
  - 10D CUBICLE CURTAIN & TRACK
  - 10E METAL LOCKER
  - 10F FIRE EXTINGUISHER AND CABINET
  - 10G OPERABLE PARTITION
  - 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - 11A RECESSED, MOTORIZED PROJECTION SCREEN
  - 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - 12A RECESSED ENTRANCE MAT AND FRAME
  - 12B WINDOW TREATMENT - BLINDS
  - 12C WINDOW TREATMENT - SUN SHADING
  - 14A HYDRAULIC ELEVATOR
  - 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
  - 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A711**  
 SHEET X OF XX

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Horizontal Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DATE	TITLE	DESIGN	DATE	DATE

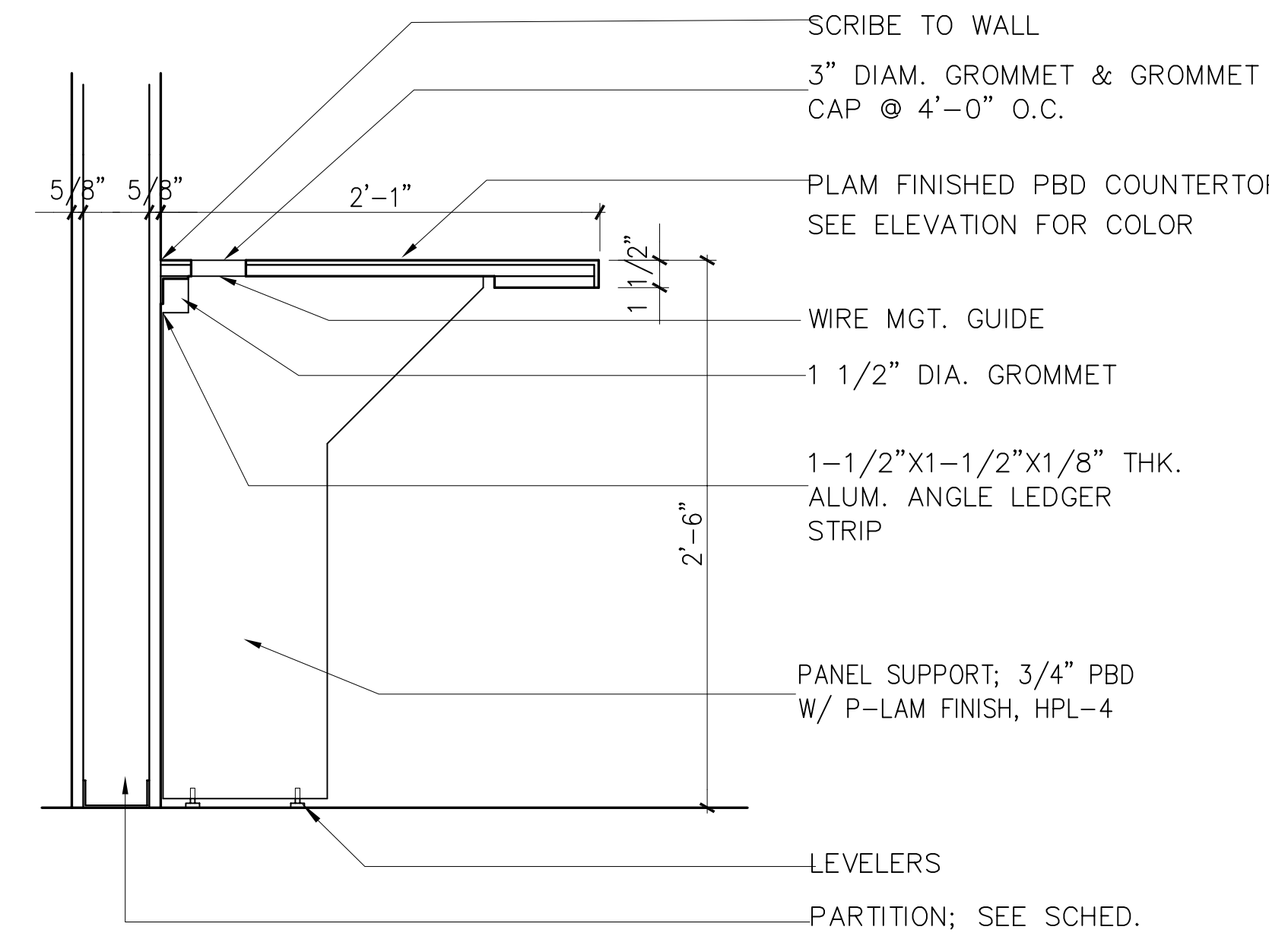
DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE APPROVAL  
 DATE

no.	revisions/submissions	date

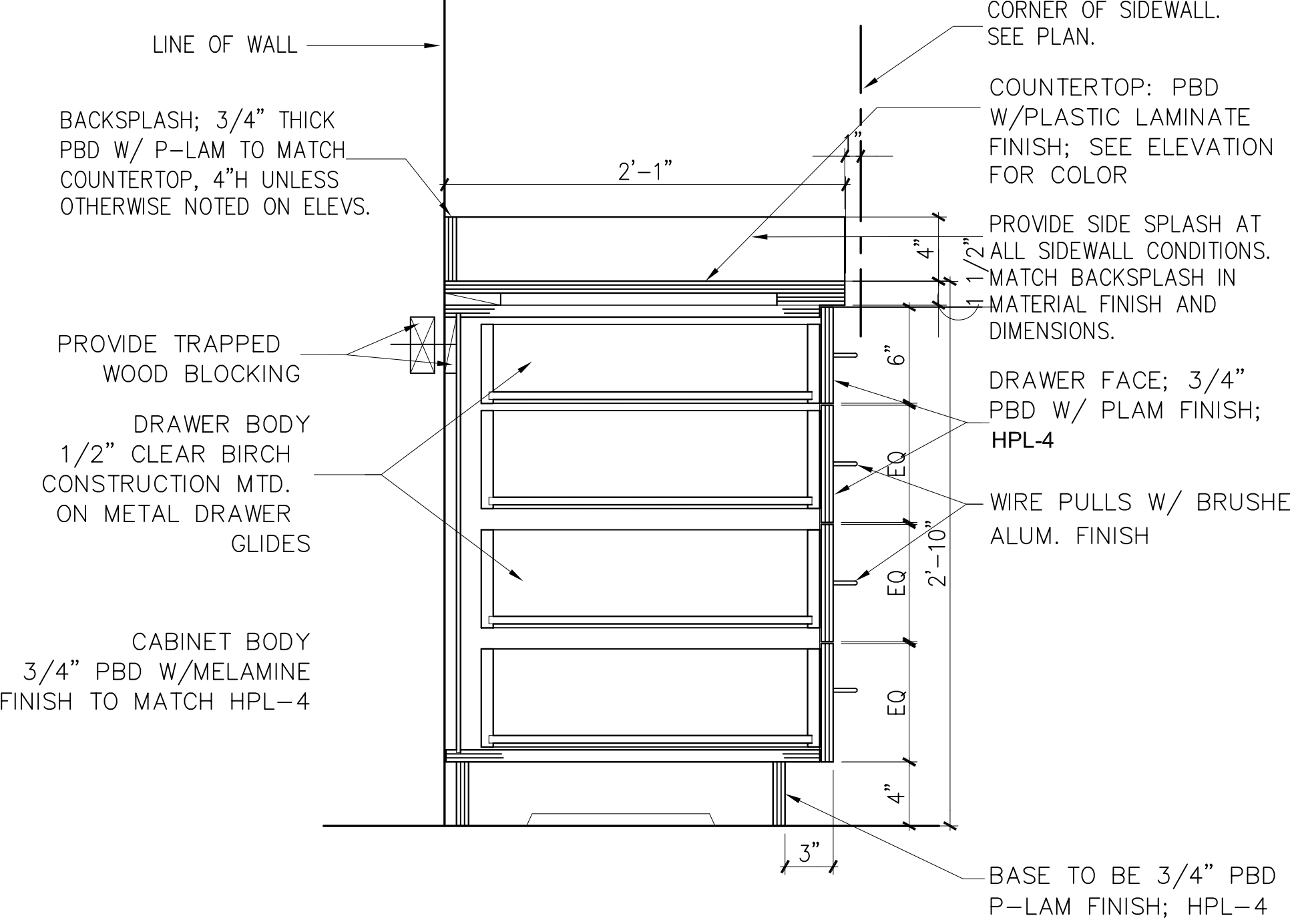
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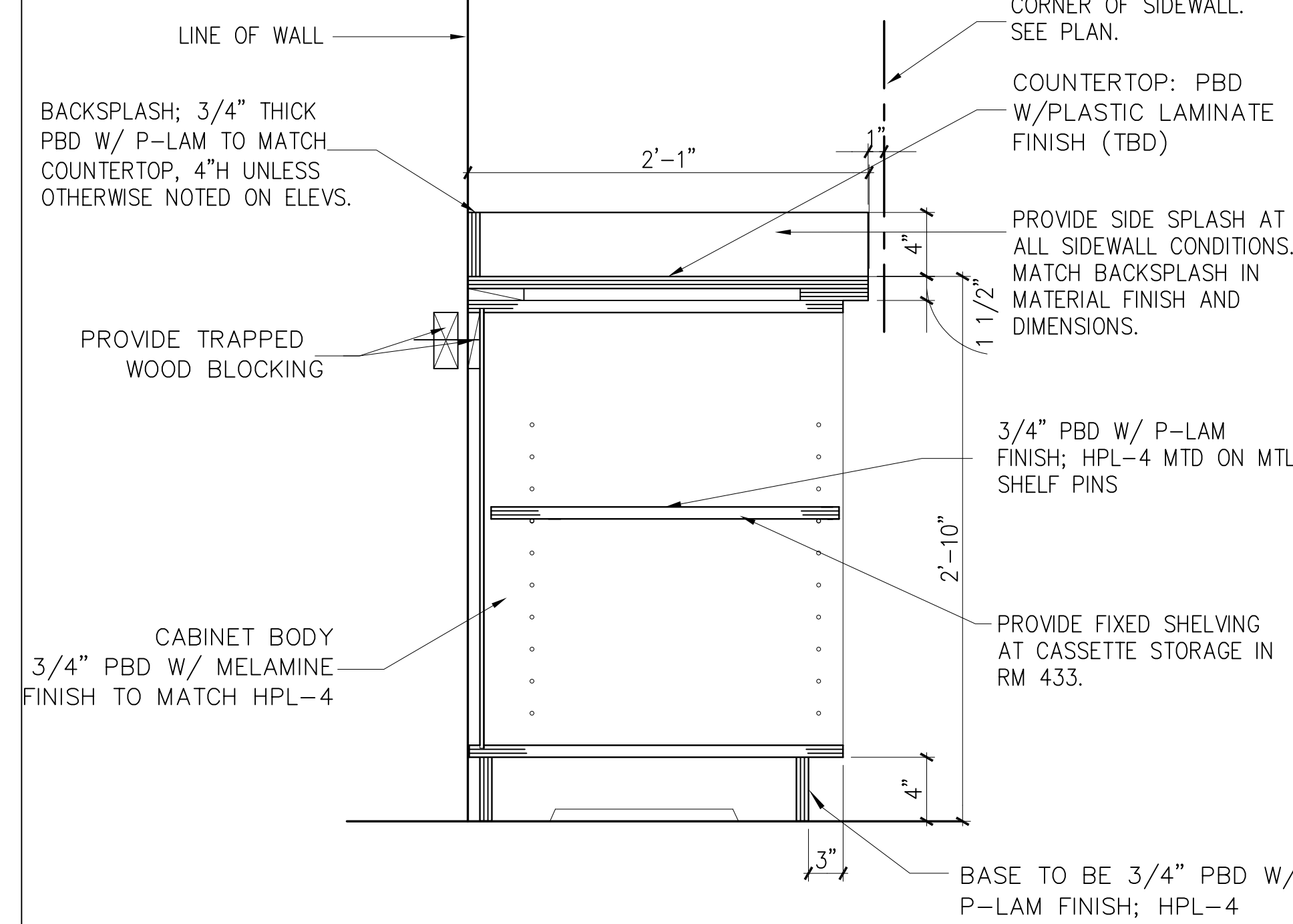
M1 TYP COUNTERTOP W/ OUT BASE

1 1/2" = 1'-0" A712



M9 TYPICAL DRAWER BASE

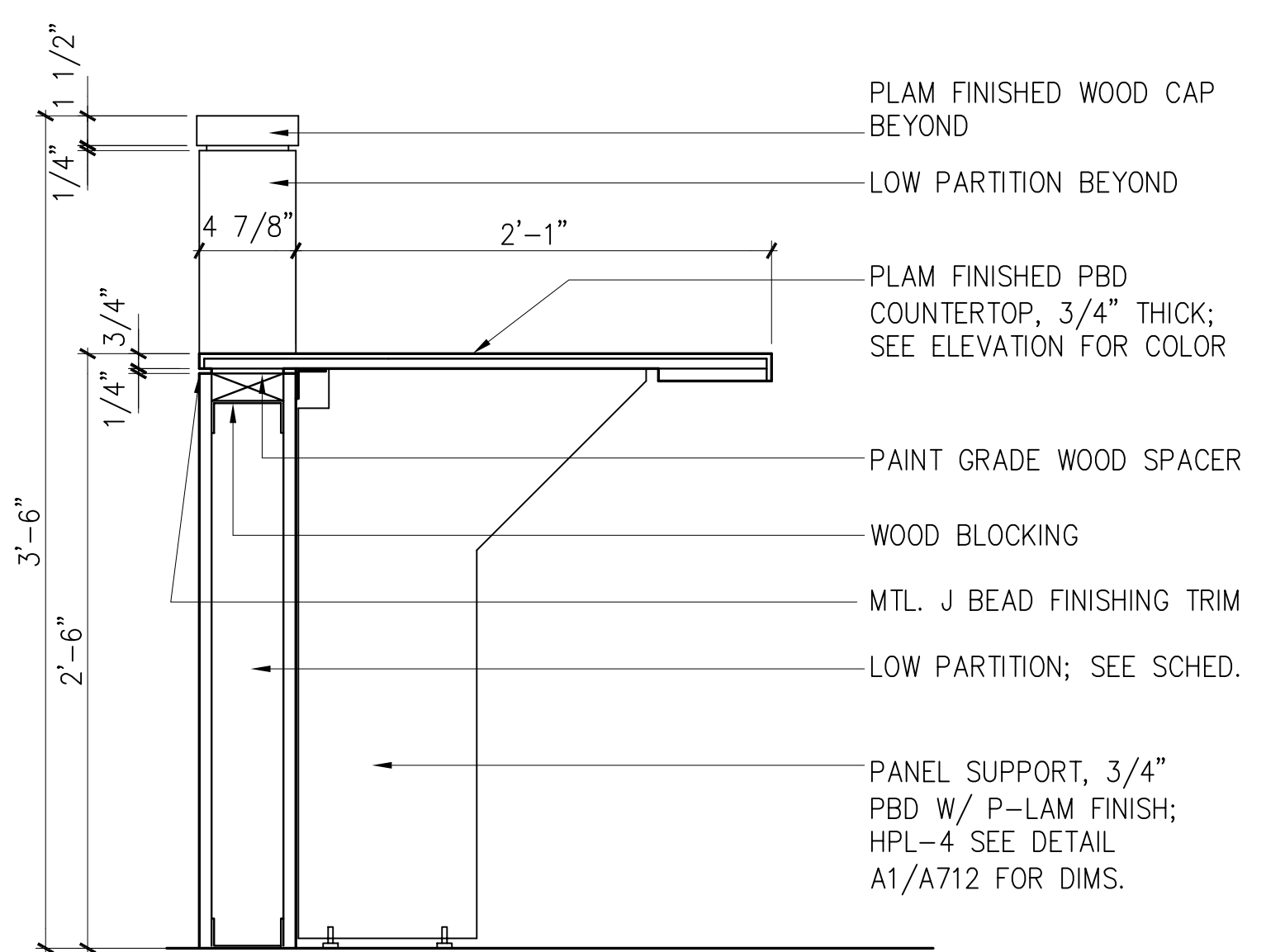
1 1/2" = 1'-0" A712



M13 TYP. OPEN STORAGE CABINET

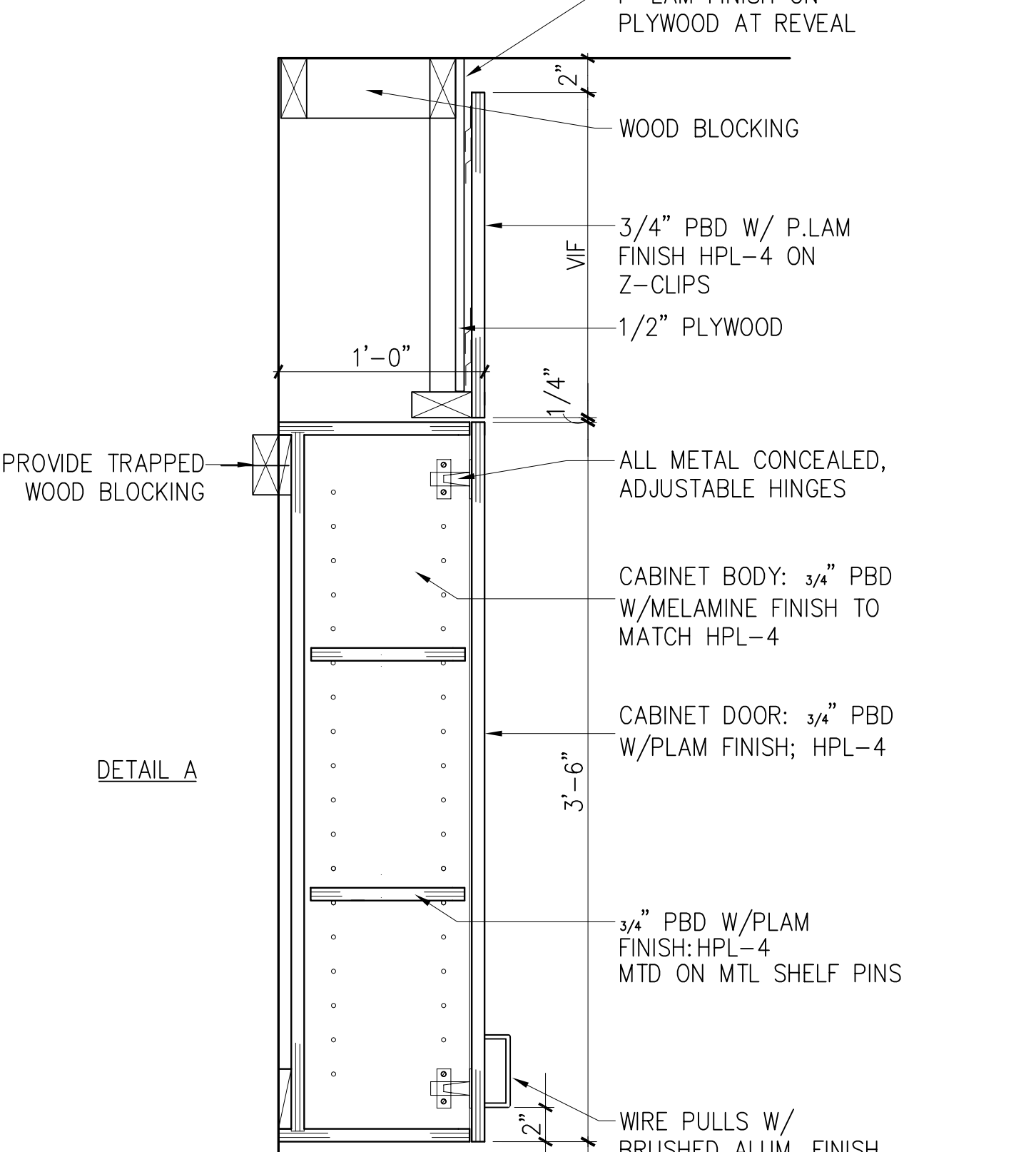
3" = 1'-0" A712

- MATERIAL KEYED NOTES
- (3A) CONCRETE STRUCTURE
  - (3B) CONCRETE SLAB ON GRADE
  - (3C) CONCRETE SLAB ON METAL DECK
  - (3D) CONCRETE SLAB ON GRADE
  - (4A) FACE BRICK ON CMU, (COLOR 1)
  - (4B) FACE BRICK ON CMU, (COLOR 2)
  - (4C) 8" x 8" FACE BRICK ON CMU, (COLOR 2)
  - (4D) ARCH. PRECAST CONCRETE, SEE NOTE 2
  - (4E) GLASS BLOCK
  - (4F) CONCRETE MASONRY UNIT
  - (4G) THROUGH WALL FLASHING
  - (4H) HORIZ JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
  - (4I) CAVITY WALL INSULATION (2" U.N.O.)
  - (5A) STRUCTURAL STEEL
  - (5B) METAL DECK
  - (5C) COLD FORMED METAL FRAMING
  - (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
  - (5E) STEEL RAILING SYSTEM
  - (5F) ALUM. LADDER
  - (5G) PTD. ALUM MAST AND TRIM
  - (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
  - (6B) WOOD TRIM
  - (6C) ARCHITECTURAL WOODWORK
  - (7A) SPRAY-ON FIREPROOFING
  - (7B) BUILT-UP ROOFING SYSTEM
  - (7C) PERIMETER INSULATION (2")
  - (7D) INSULATED METAL PANEL
  - (7E) METAL FLASHING
  - (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - (7G) FORMED ALUMINUM COPING
  - (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - (8A) ALUMINUM WINDOW SYSTEM
  - (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - (8C) ALUMINUM CURTAIN WALL
  - (8D) HOLLOW METAL FRAME
  - (8E) HOLLOW METAL DOOR
  - (8F) WOOD DOOR
  - (8G) ROOF HATCH
  - (8H) TEMPERED GLASS (thickness)
  - (8I) FORMED ALUMINUM COPING
  - (8J) SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - (9A) GYPSUM BOARD (5/8")
  - (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
  - (9C) EXTERIOR GYPSUM SOFFIT
  - (9D) SUSPENDED ACOUSTIC PANEL CEILING
  - (9E) METAL STUDS
  - (9F) WALL GUARDS (TYPE)
  - (9G) CERAMIC TILE
  - (9H) VINYL COMPOSITION TILE
  - (9I) SHEET VINYL FLOORING
  - (9J) RESILIENT BASE
  - (9K) PAINT (Color-Ref. to Schedule)
  - (9L) EPOXY PAINT (Color-Ref. to Schedule)
  - (10A) VISUAL DISPLAY BOARD
  - (10B) TOILET COMPARTMENTS
  - (10C) ALUMINUM LOUVER
  - (10D) CUBICLE CURTAIN & TRACK
  - (10E) METAL LOCKER
  - (10F) FIRE EXTINGUISHER AND CABINET
  - (10G) OPERABLE PARTITION
  - (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - (11A) RECESSED, MOTORIZED PROJECTION SCREEN
  - (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - (12A) RECESSED ENTRANCE MAT AND FRAME
  - (12B) WINDOW TREATMENT - BLINDS
  - (12C) WINDOW TREATMENT - SUN SHADING
  - (14A) HYDRAULIC ELEVATOR
  - (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
  - (16A) LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES



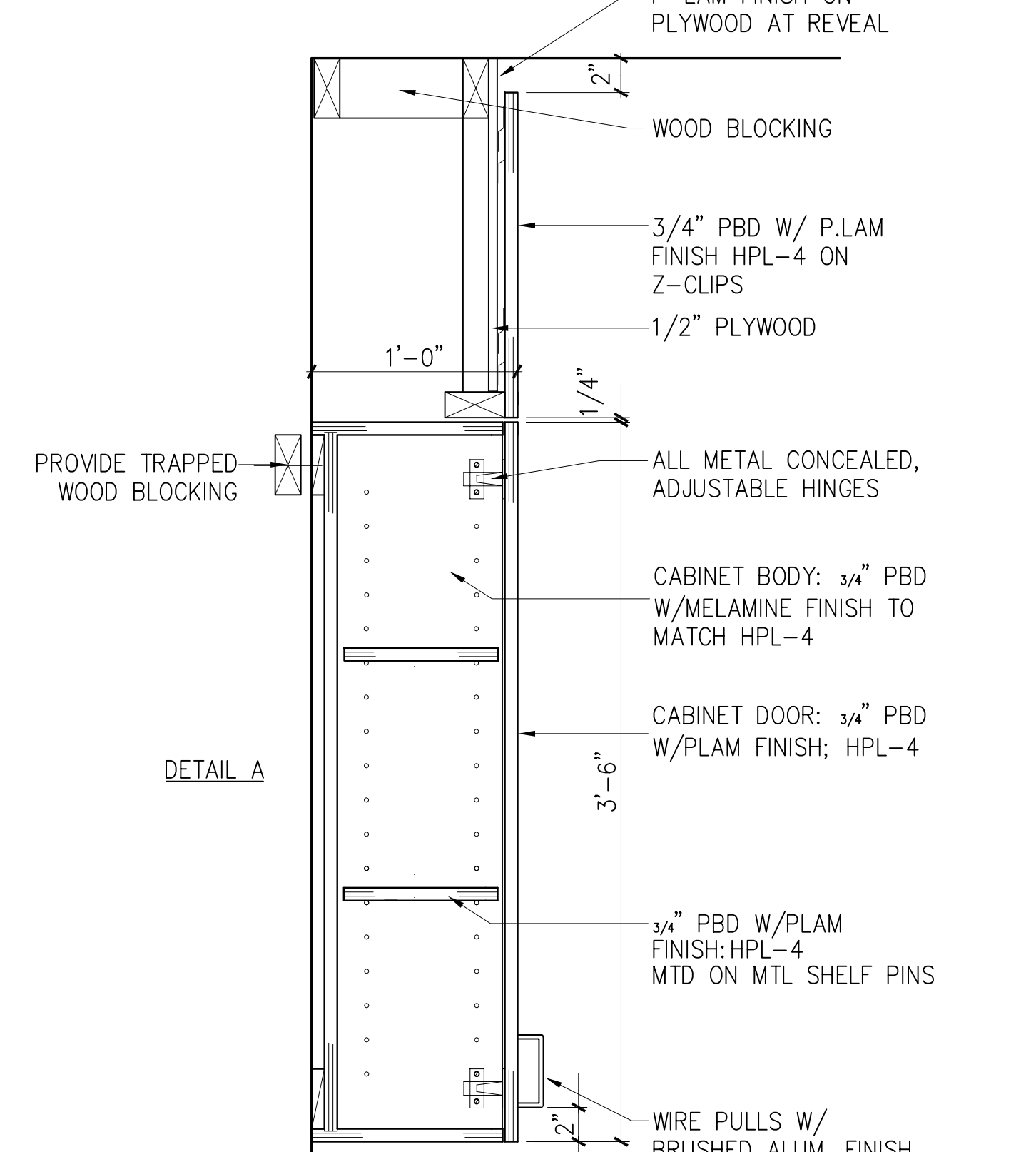
G1 CLINIC COUNTER DETAIL

1-1/2" = 1'-0" A101



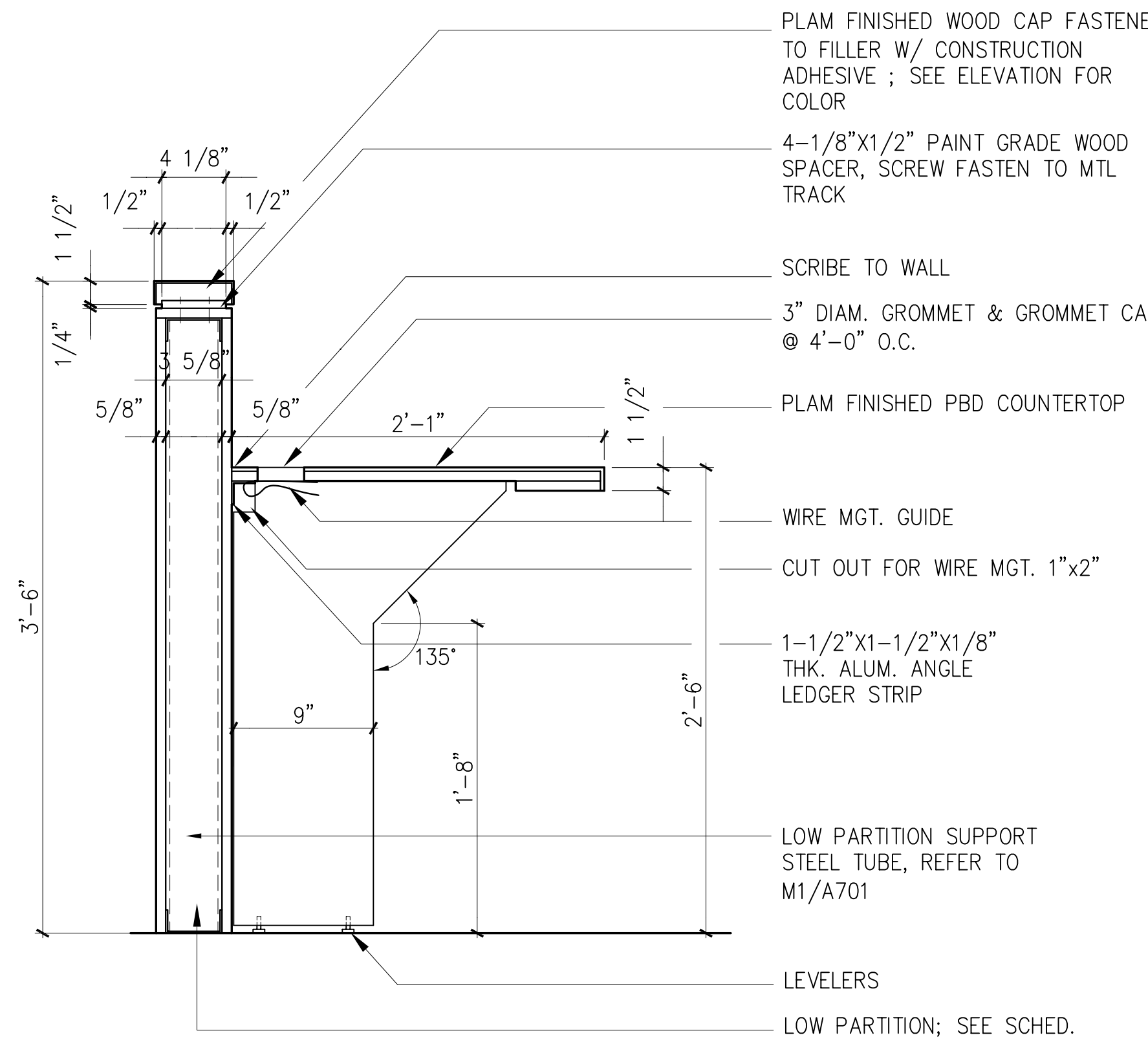
A8 TYP. COUNTER SECTION AT COUNTER

1 1/2" = 1'-0"



A13 TYP. SECTION AT SINK

1 1/2" = 1'-0"



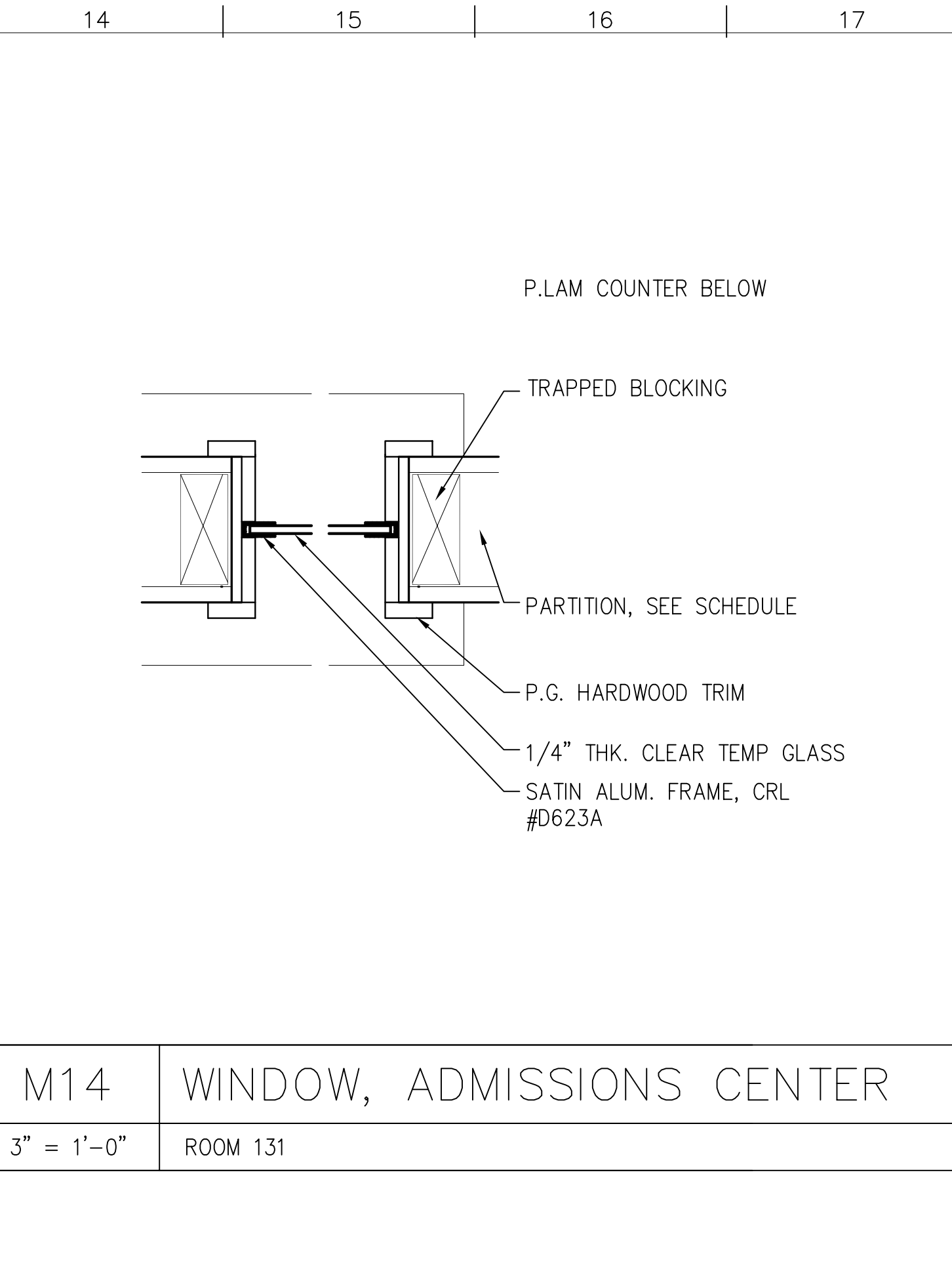
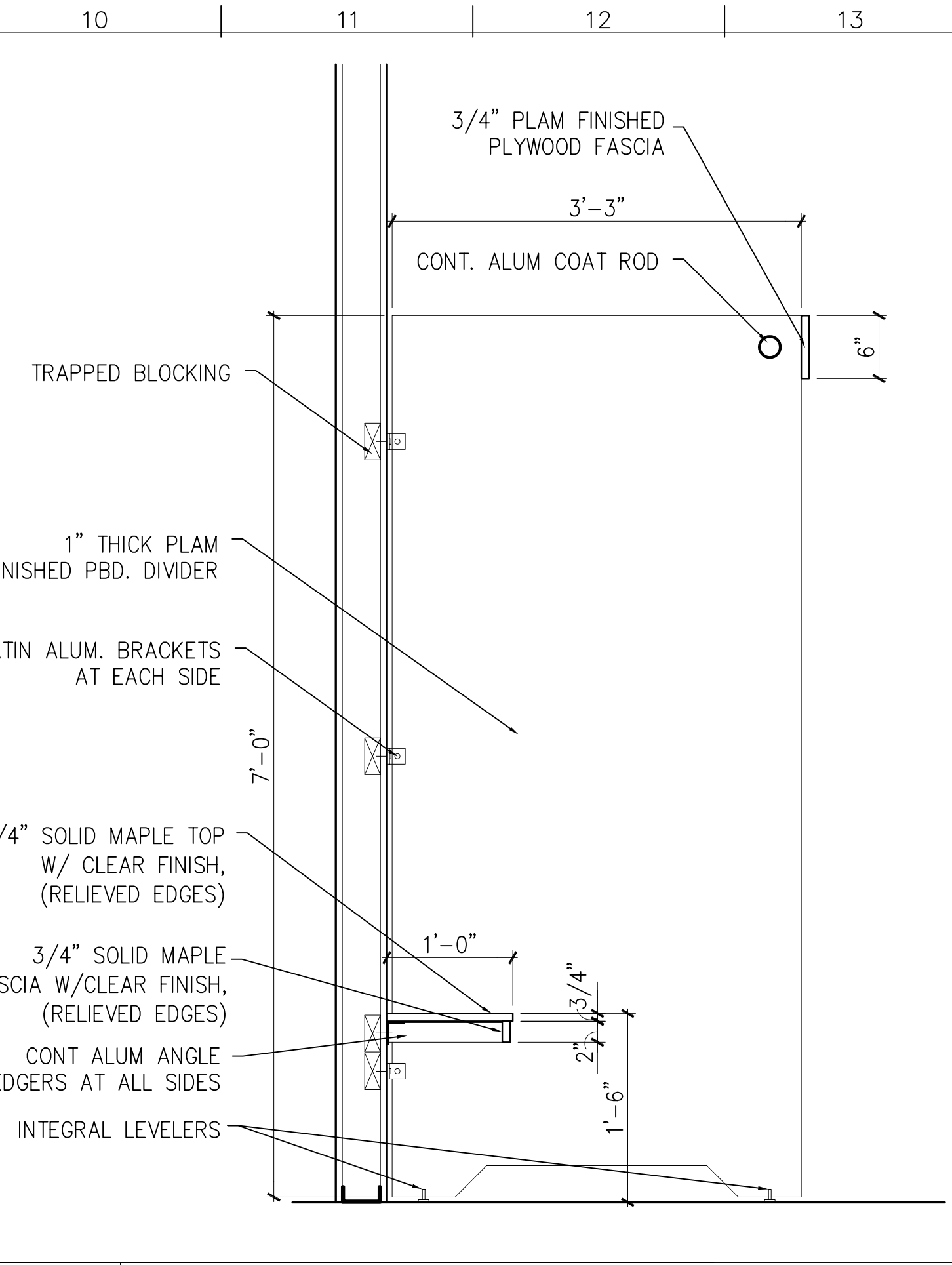
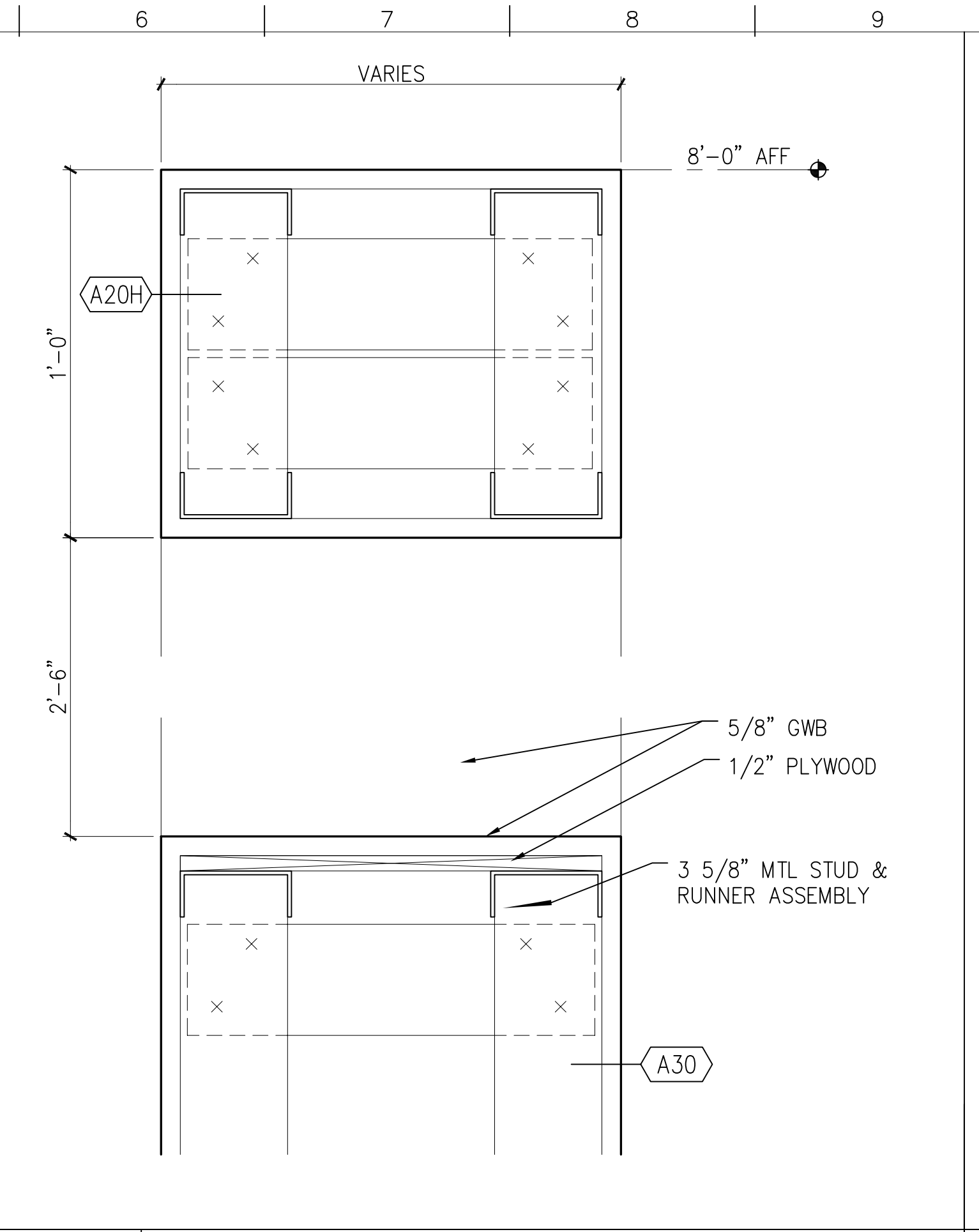
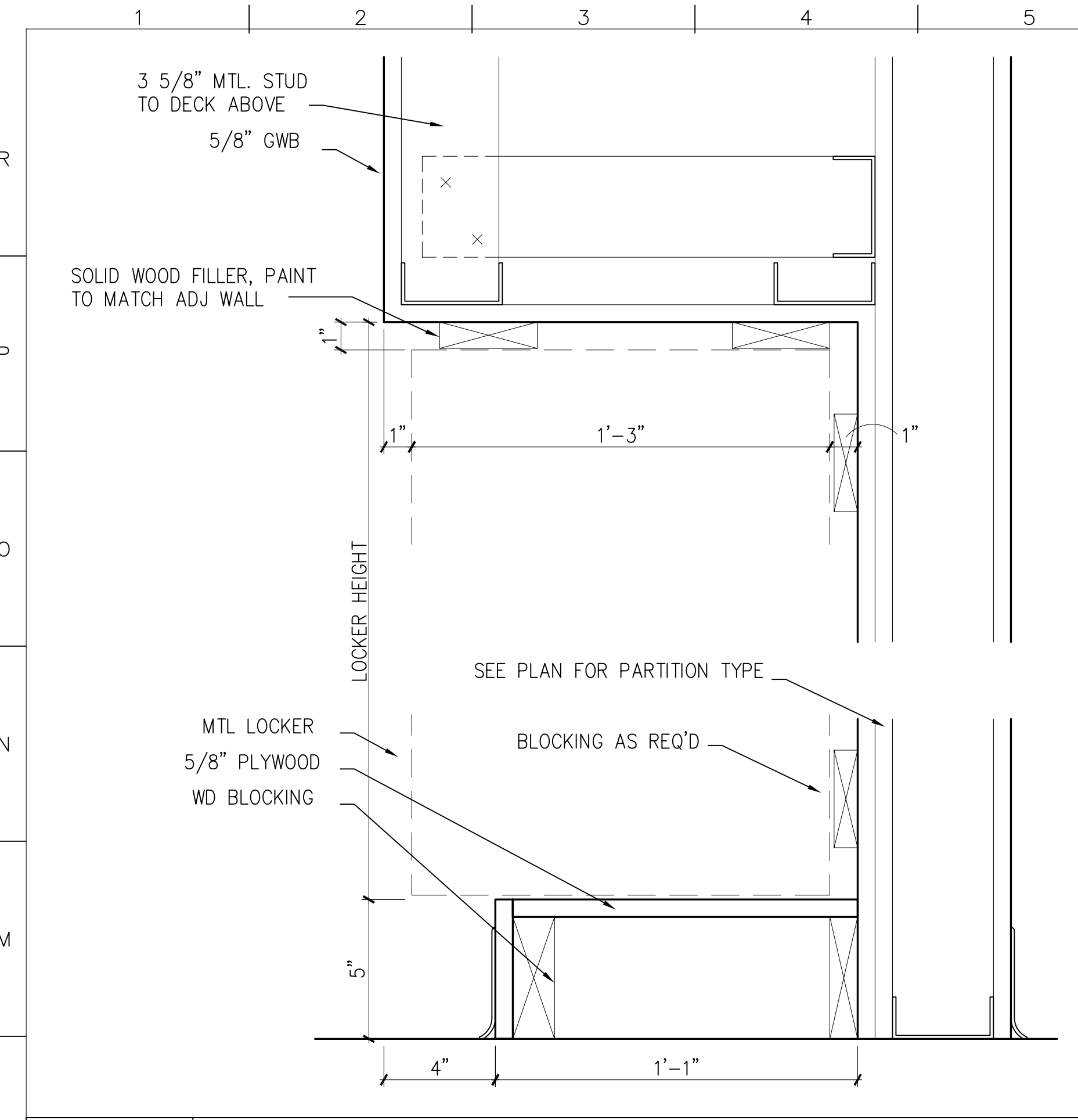
A1 CLINIC COUNTER DETAIL

1-1/2" = 1'-0" A101

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE  
 INTERIOR DETAILS  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 Silver Spring, Maryland  
 PROJECT # CC-01-MC 97/98-318

no.	revisions/submissions	date

PROJECT NO.  
 34489-01  
 DATE: 6/20/02  
 A712  
 SHEET 2 of 22

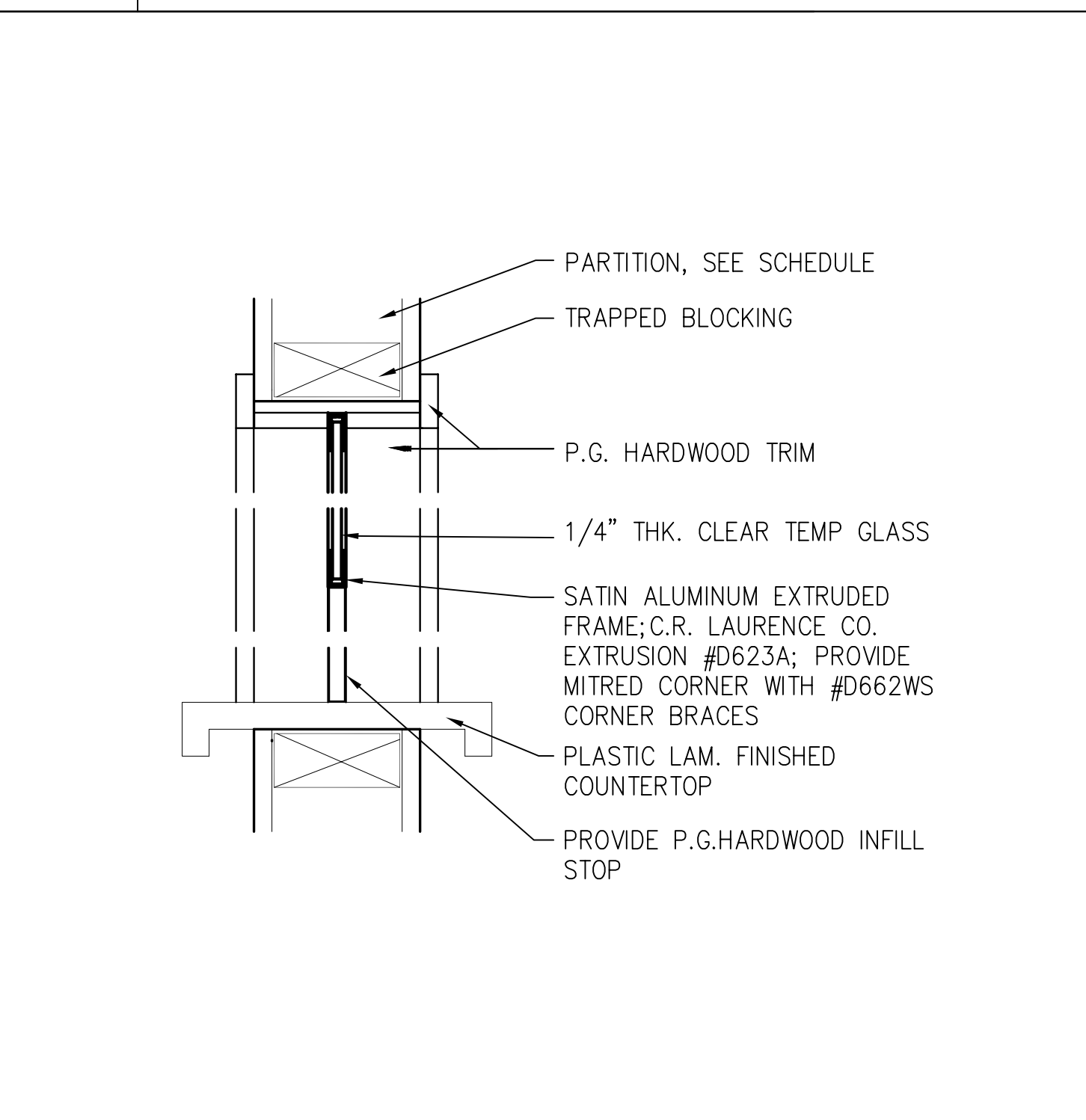
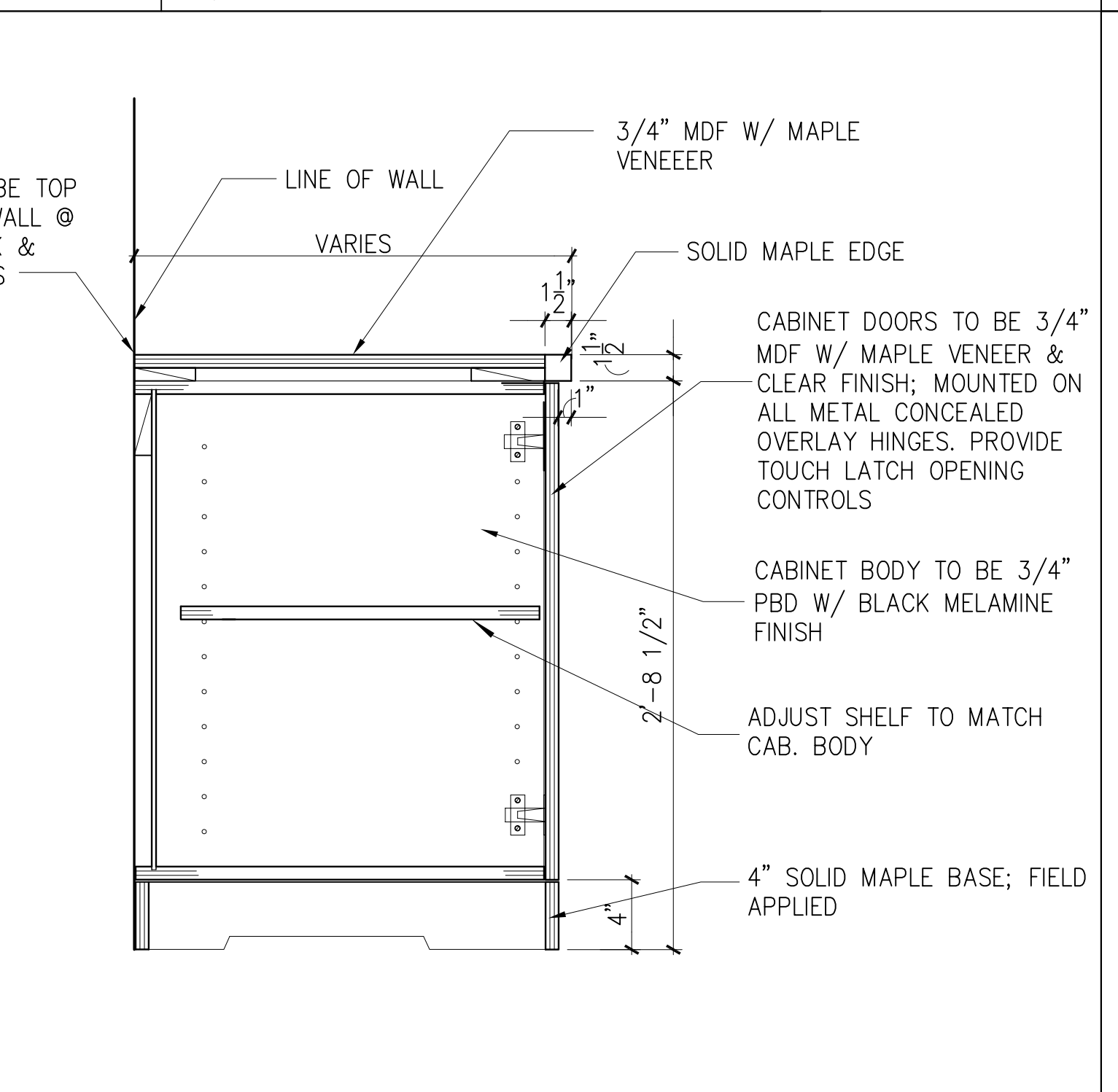
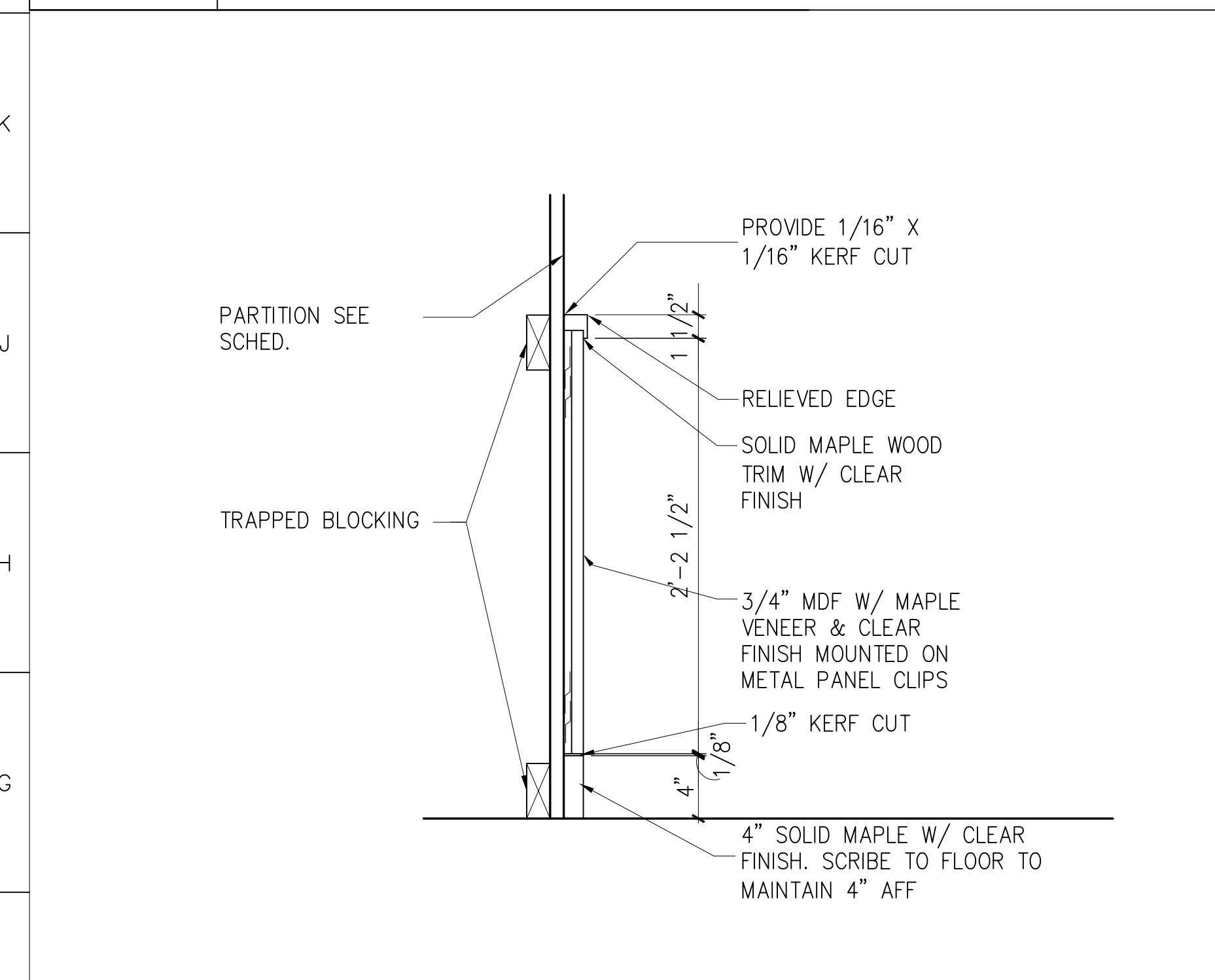


L1 LOCKER BASE AND SOFFIT DETAIL  
3" = 1'-0"

L6 SECTION AT WEDGE  
3" = 1'-0" J1/A605

L10 RM. 248 DRESSING BOOTHS  
3/4" = 1'-0"

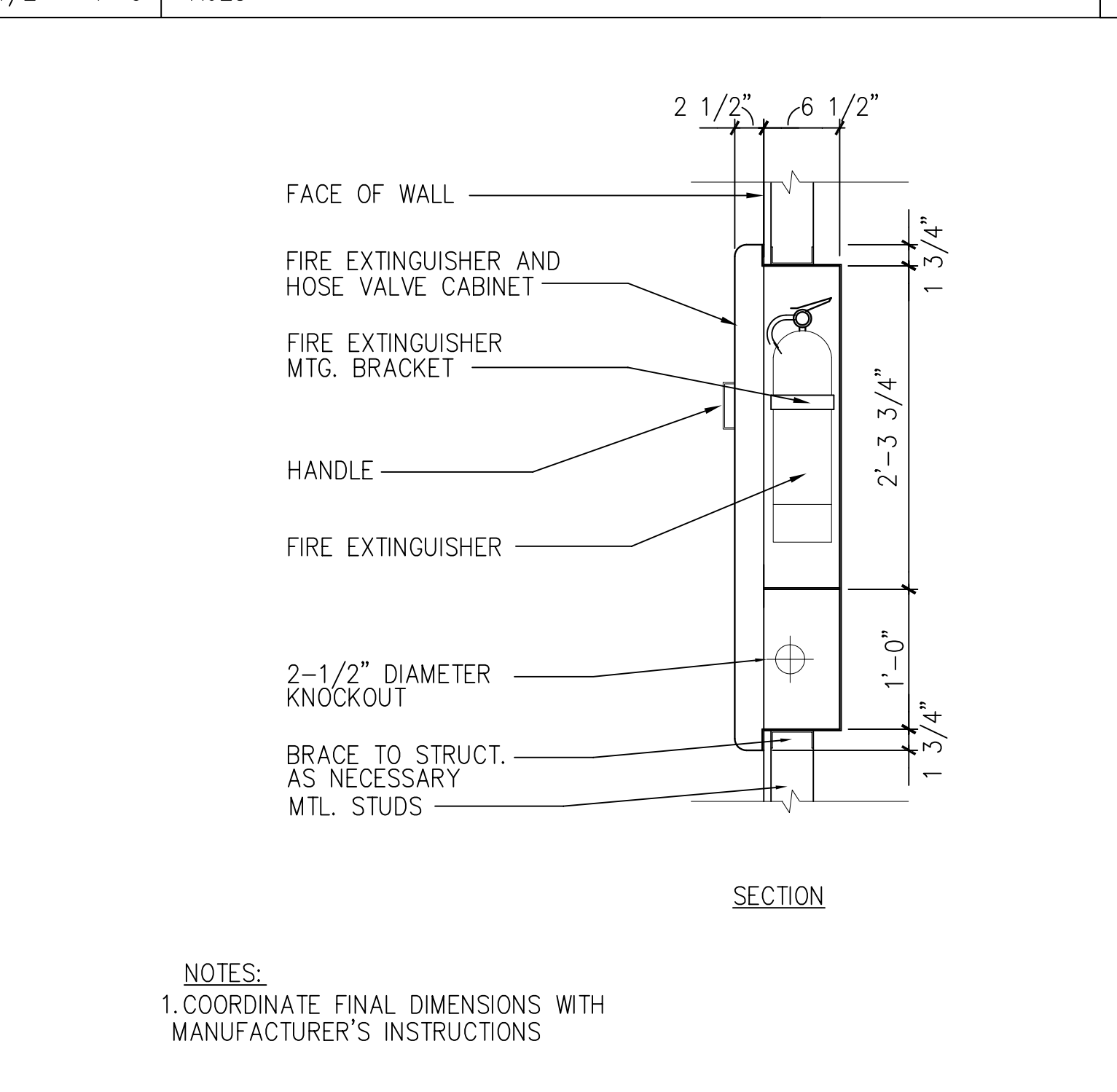
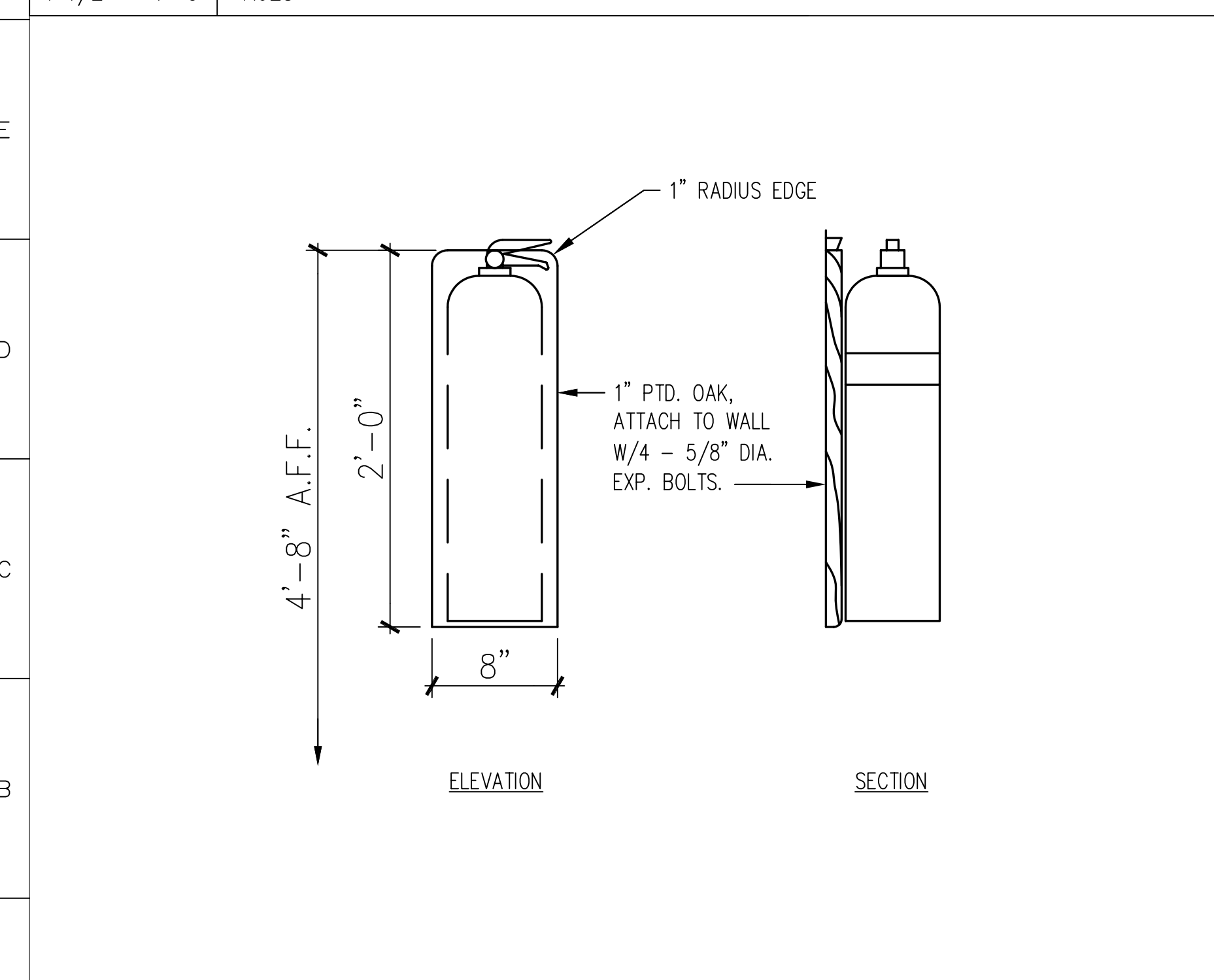
M14 WINDOW, ADMISSIONS CENTER  
3" = 1'-0" ROOM 131



F1 WAINSCOT  
1 1/2" = 1'-0" A623

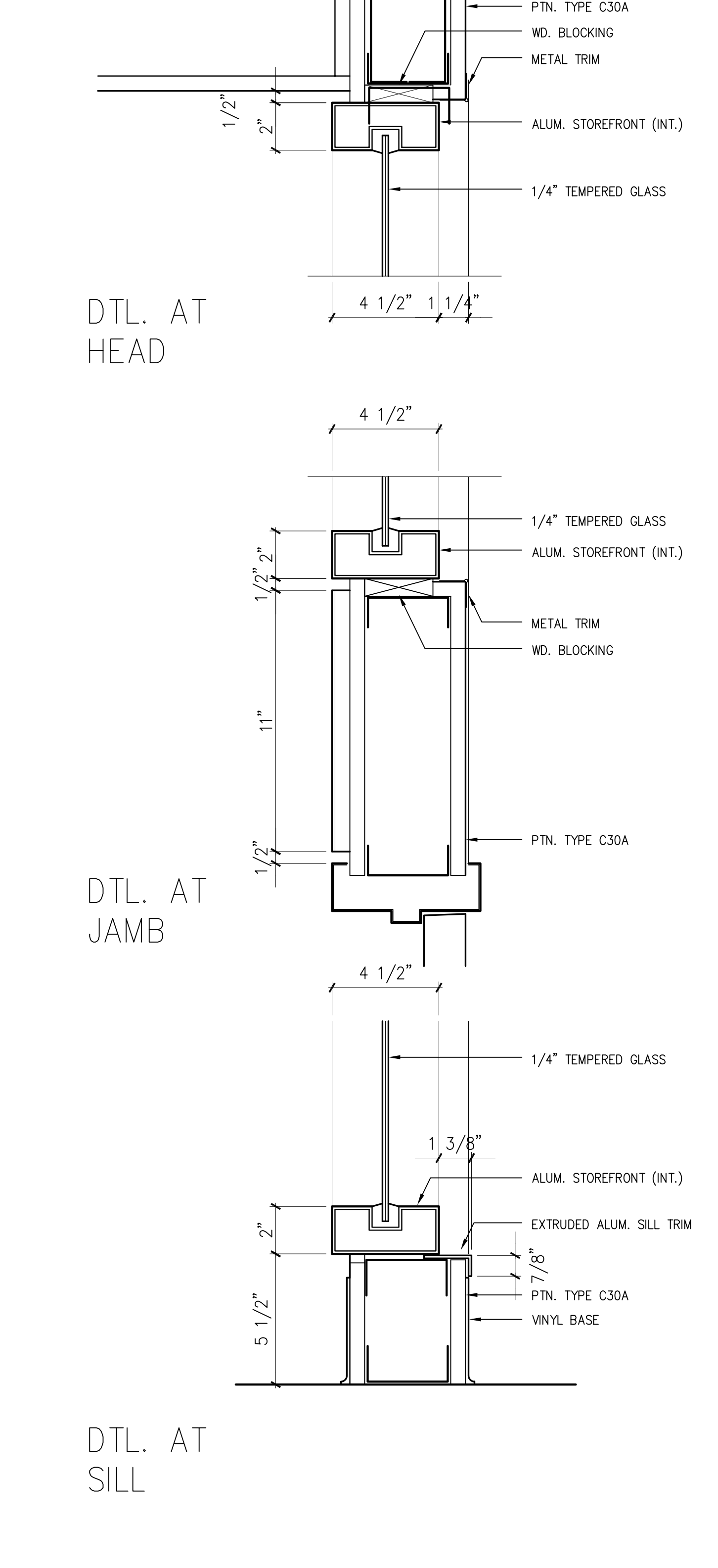
F6 EXEC. MTG. RM. CREDENZA  
1-1/2" = 1'-0" A623

F10 WINDOW, ADMISSIONS CENTER  
3" = 1'-0" ROOM 131



A1 FIRE EXTINGUISHER DETAILS  
1 1/2" = 1'-0" A100, A105

A6 FIRE EXTINGUISHER CABINET DETAILS  
1" = 1'-0" A101, A102, A103, A104



A14 INTERIOR STOREFRONT DETAILS  
3" = 1'-0" A907

MATERIAL KEYED NOTES	
(3A)	CONCRETE STRUCTURE
(3B)	CONCRETE SLAB ON GRADE
(3C)	CONCRETE SLAB ON METAL DECK
(3D)	SLAB EDGE
(4A)	FACE BRICK ON CMU, (COLOR 1)
(4B)	FACE BRICK ON CMU, (COLOR 2)
(4B1)	8" X 8" FACE BRICK ON CMU, (COLOR 2)
(4C)	ARCH. PRECAST CONCRETE, SEE NOTE 2
(4D)	GLASS BLOCK
(4E)	CONCRETE MASONRY UNIT
(4F)	THROUGH WALL FLASHING
(4G)	HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
(4H)	CAVITY WALL INSULATION (2" U.N.O.)
(5A)	STRUCTURAL STEEL
(5B)	METAL DECK
(5C)	COLD FORMED METAL FRAMING
(5D)	GALV. STEEL RELIEVING ANGLE/LINTEL
(5E)	STEEL RAILING SYSTEM
(5F)	ALUM. LADDER
(5G)	PTD. ALUM MAST AND TRIM
(5H)	STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
(6A)	WOOD BLOCKING (FIRE RETARDANT TREATED)
(6B)	WOOD TRIM
(6C)	ARCHITECTURAL WOODWORK
(7A)	SPRAY-ON FIREPROOFING
(7B)	BUILT-UP ROOFING SYSTEM
(7C)	PERIMETER INSULATION (2")
(7D)	INSULATED METAL PANEL
(7E)	METAL FLASHING
(7F)	2 PIECE METAL RECEIVER & COUNTERFLASHING
(7G)	FORMED ALUMINUM COPING
(7H)	SELF-ADHERING SHEET WATERPROOFING SYSTEM
(8A)	ALUMINUM WINDOW SYSTEM
(8B)	ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
(8C)	ALUMINUM CURTAIN WALL
(8D)	HOLLOW METAL FRAME
(8E)	HOLLOW METAL DOOR
(8F)	WOOD DOOR
(8G)	ROOF HATCH
(8H)	TEMPERED GLASS (thickness)
(8I)	INSULATING GLASS UNIT (Ref. to Schedule)
(9A)	GYPSUM BOARD (5/8")
(9B)	EXTRUDED ALUM REVEAL MOULDING (dim)
(9C)	EXTERIOR GYPSUM SOFFIT
(9D)	SUSPENDED ACOUSTIC PANEL CEILING
(9E)	METAL STUDS
(9F)	WALL GUARDS (TYPE)
(9G)	CERAMIC TILE
(9H)	VINYL COMPOSITION TILE
(9I)	SHEET VINYL FLOORING
(9K)	RESILIENT BASE
(9L)	PAINT (Color-Ref. to Schedule)
(9M)	EPOXY PAINT (Color-Ref. to Schedule)
(10A)	VISUAL DISPLAY BOARD
(10B)	TOILET COMPARTMENTS
(10C)	ALUMINUM LOUVER
(10D)	CUBICLE CURTAIN & TRACK
(10E)	METAL LOCKER
(10F)	FIRE EXTINGUISHER AND CABINET
(10G)	OPERABLE PARTITION
(10H)	TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
(11A)	RECESSED, MOTORIZED PROJECTION SCREEN
(11B)	MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
(12A)	RECESSED ENTRANCE MAT AND FRAME
(12B)	WINDOW TREATMENT - BLINDS
(12C)	WINDOW TREATMENT - SUN SHADING
(14A)	HYDRAULIC ELEVATOR
(15A)	HVAC DUCTWORK - REF. TO MECH. DWGS.
(16A)	LIGHTING FIXTURE - REF. TO ELECT. DWGS.
	REFER TO A406 FOR SPECIAL BRICK TYPES
no.	revisions/submissions
	date

PROJECT NO. 34495.01  
DATE: 2/20/02  
A713  
SHEET 1 OF 22

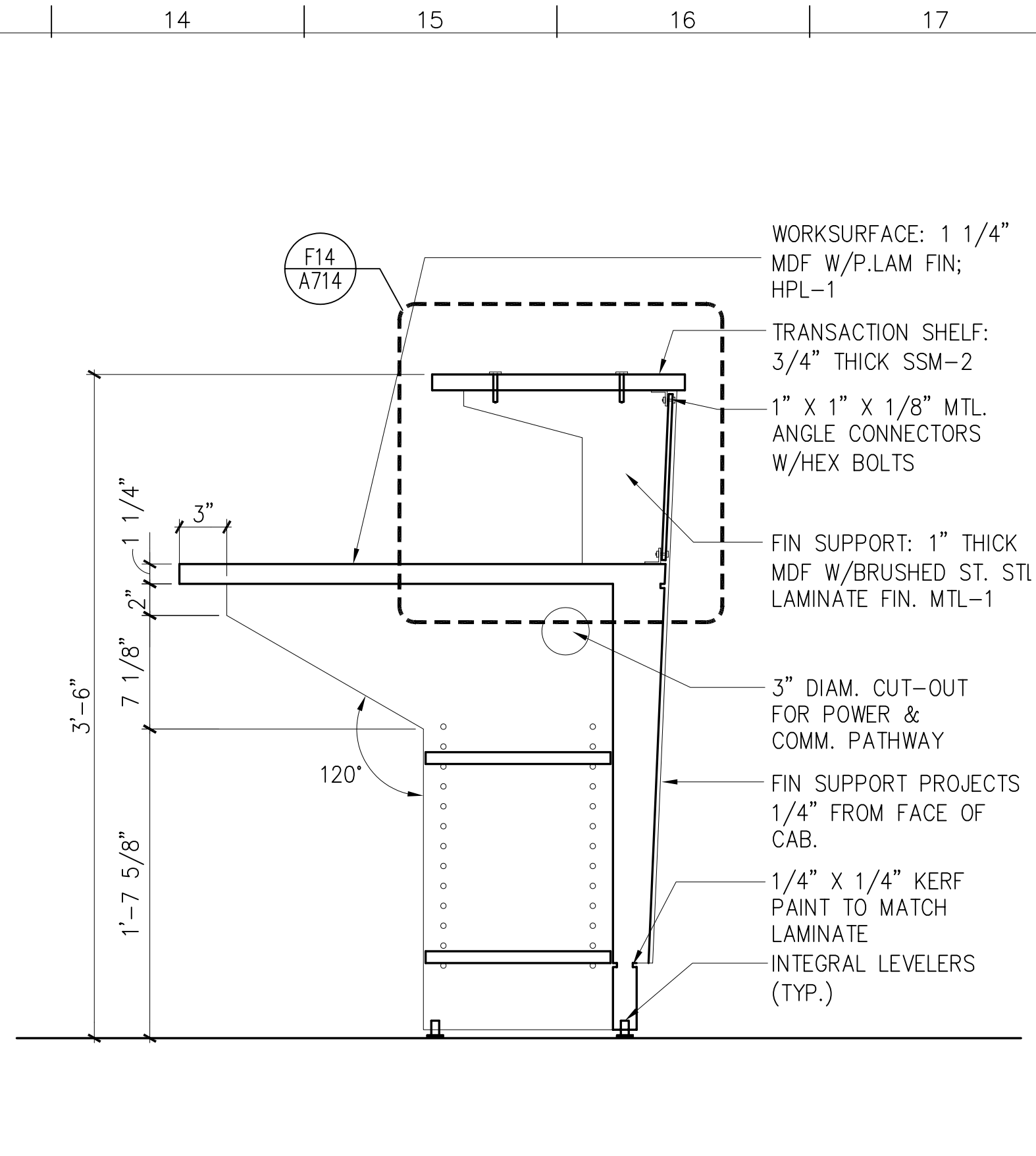
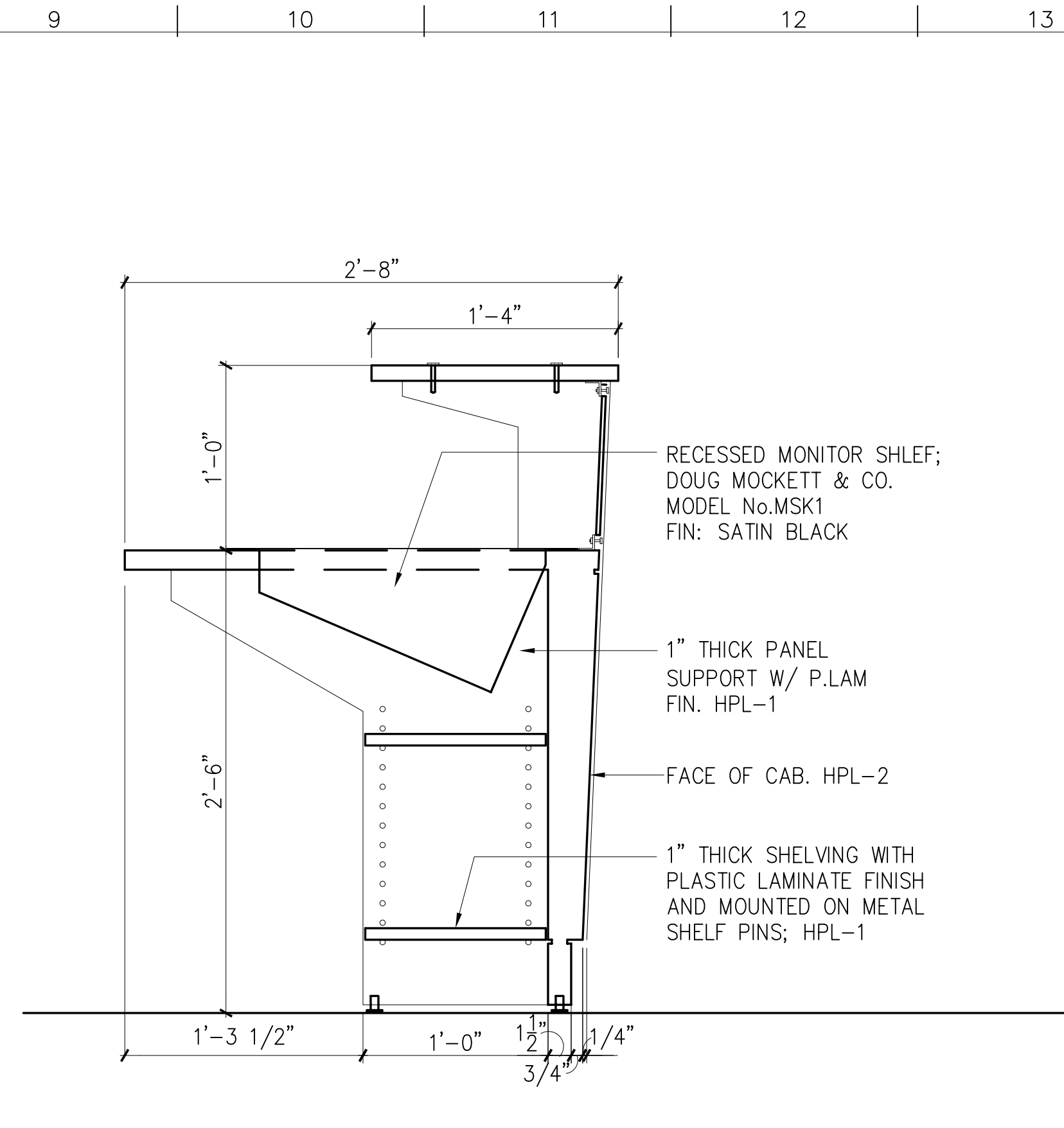
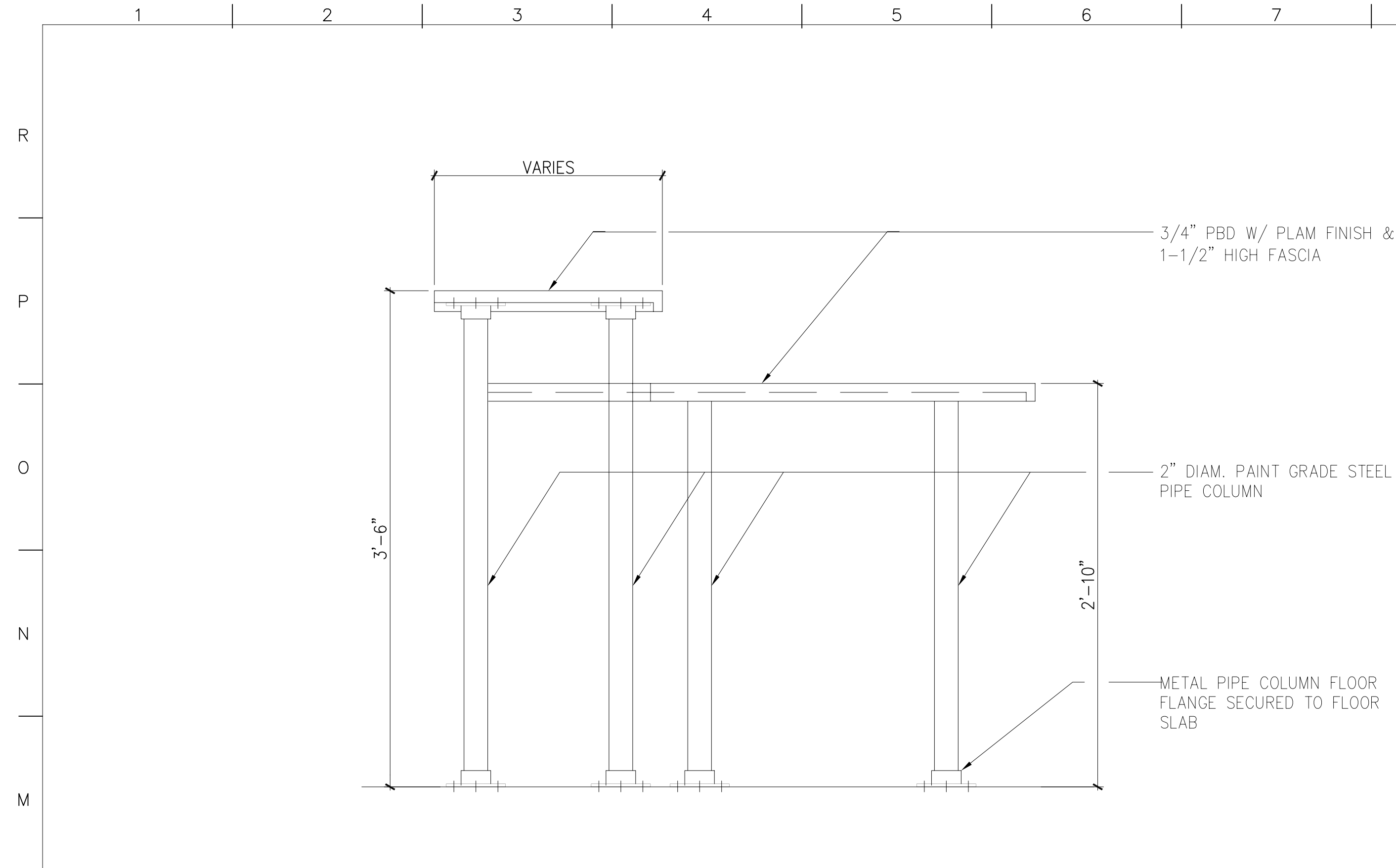
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Interior Details

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
DATE

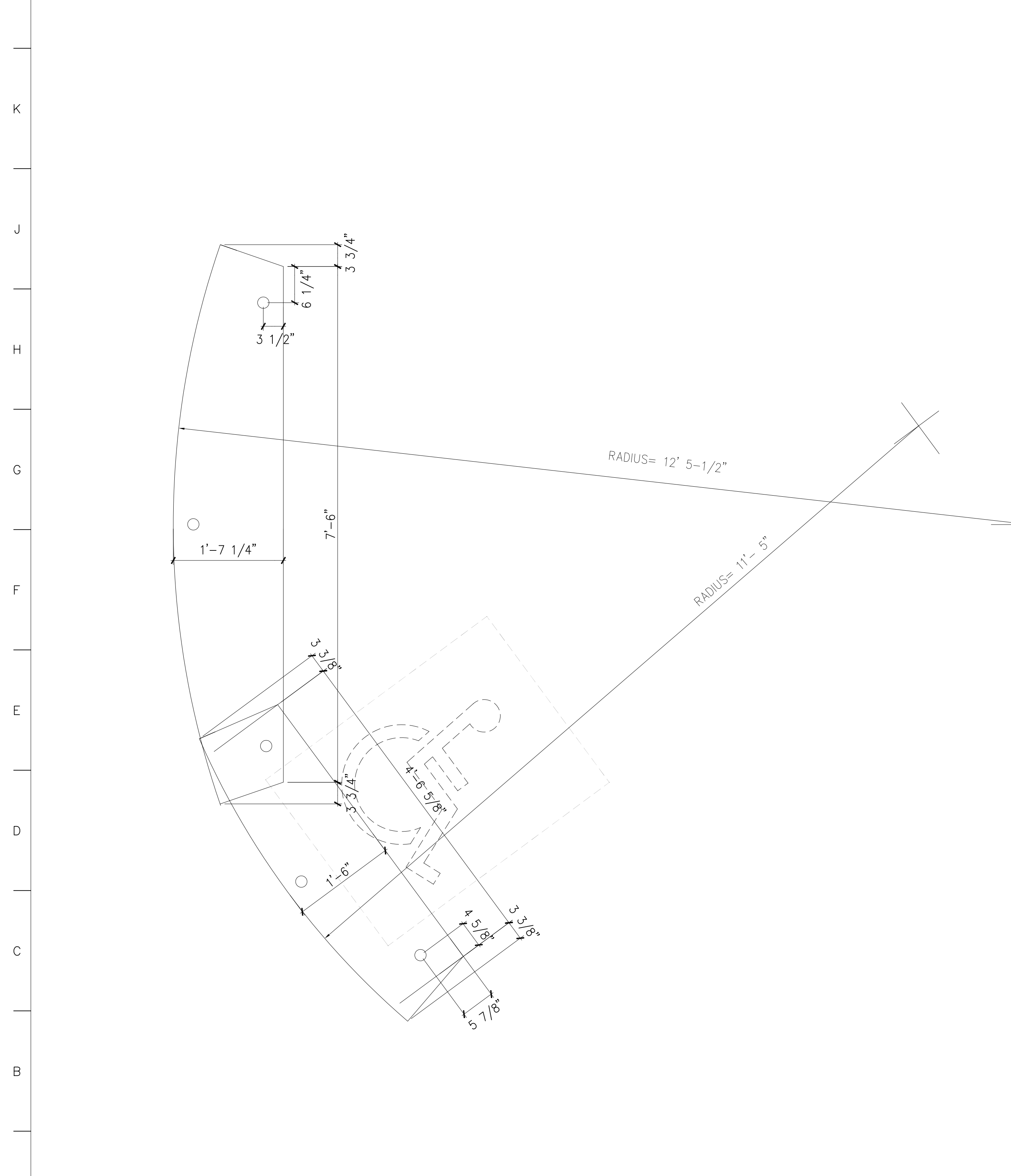
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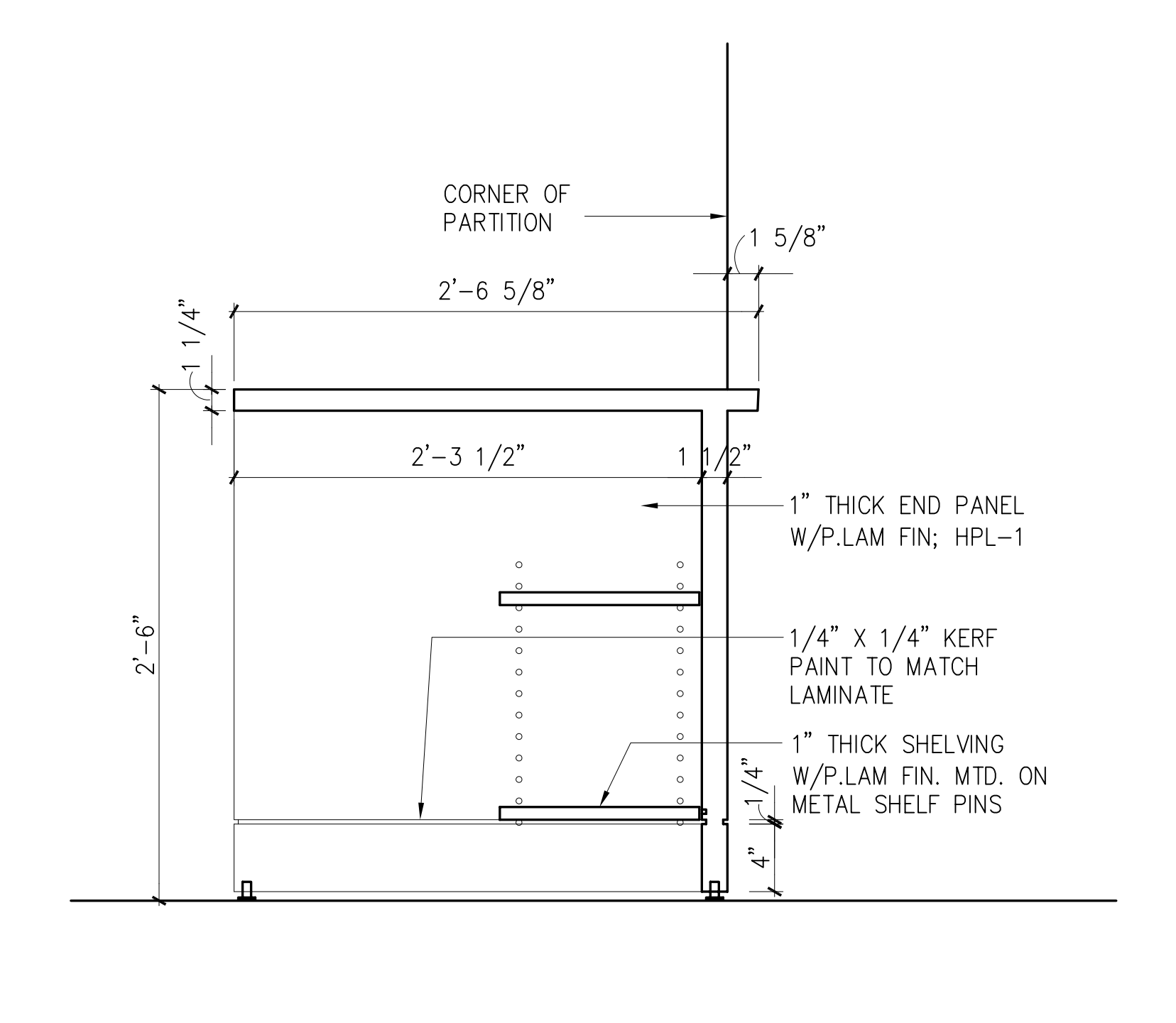
L1 SECTION THROUGH ADMISSIONS DESK  
1 1/2" = 1'-0" A1/A714

L9 SECTION THROUGH GUARD DESK  
1 1/2" = 1'-0" A12/711

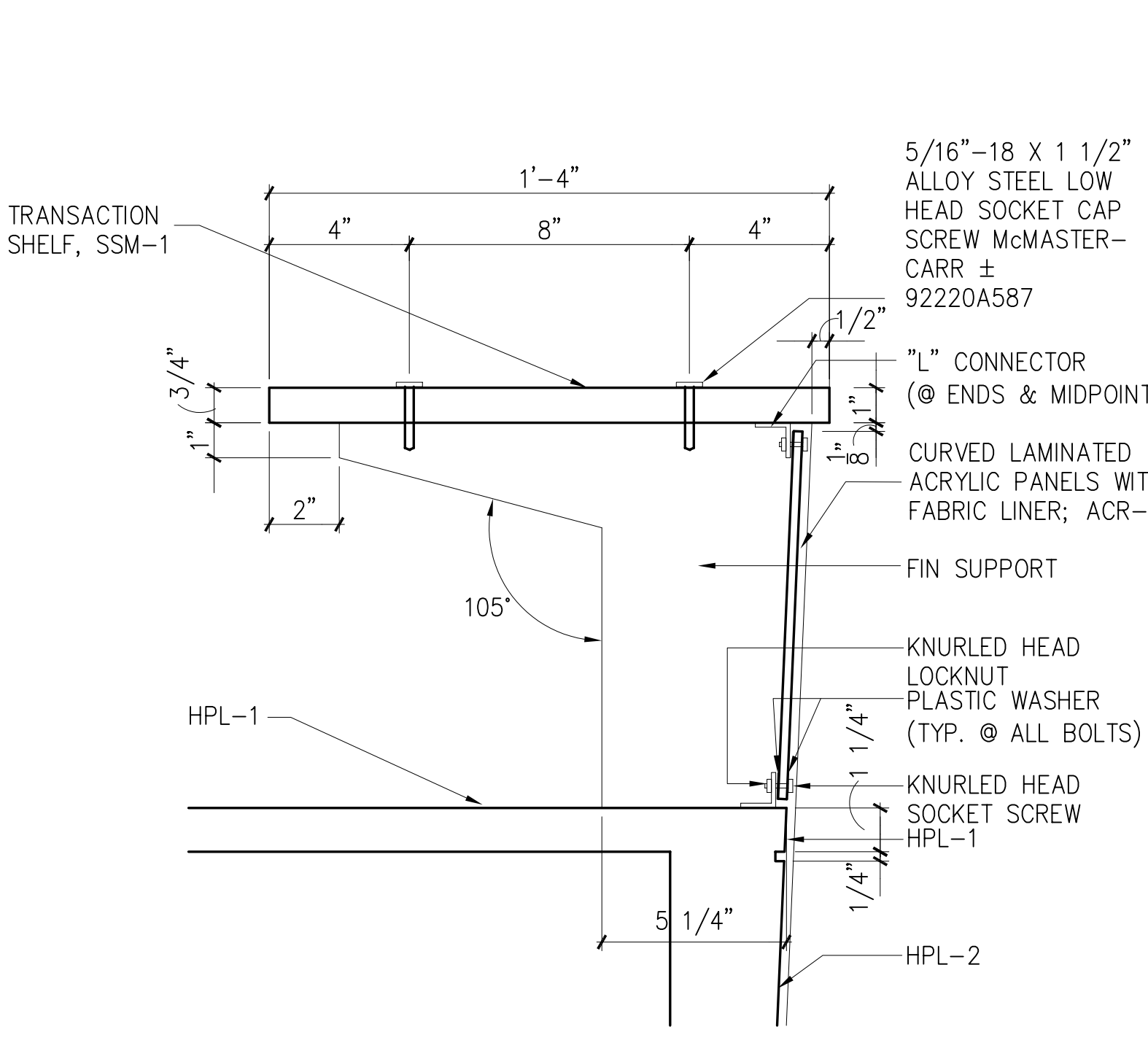
L14 SECTION THROUGH GUARD DESK  
1 1/2" = 1'-0" A12/711



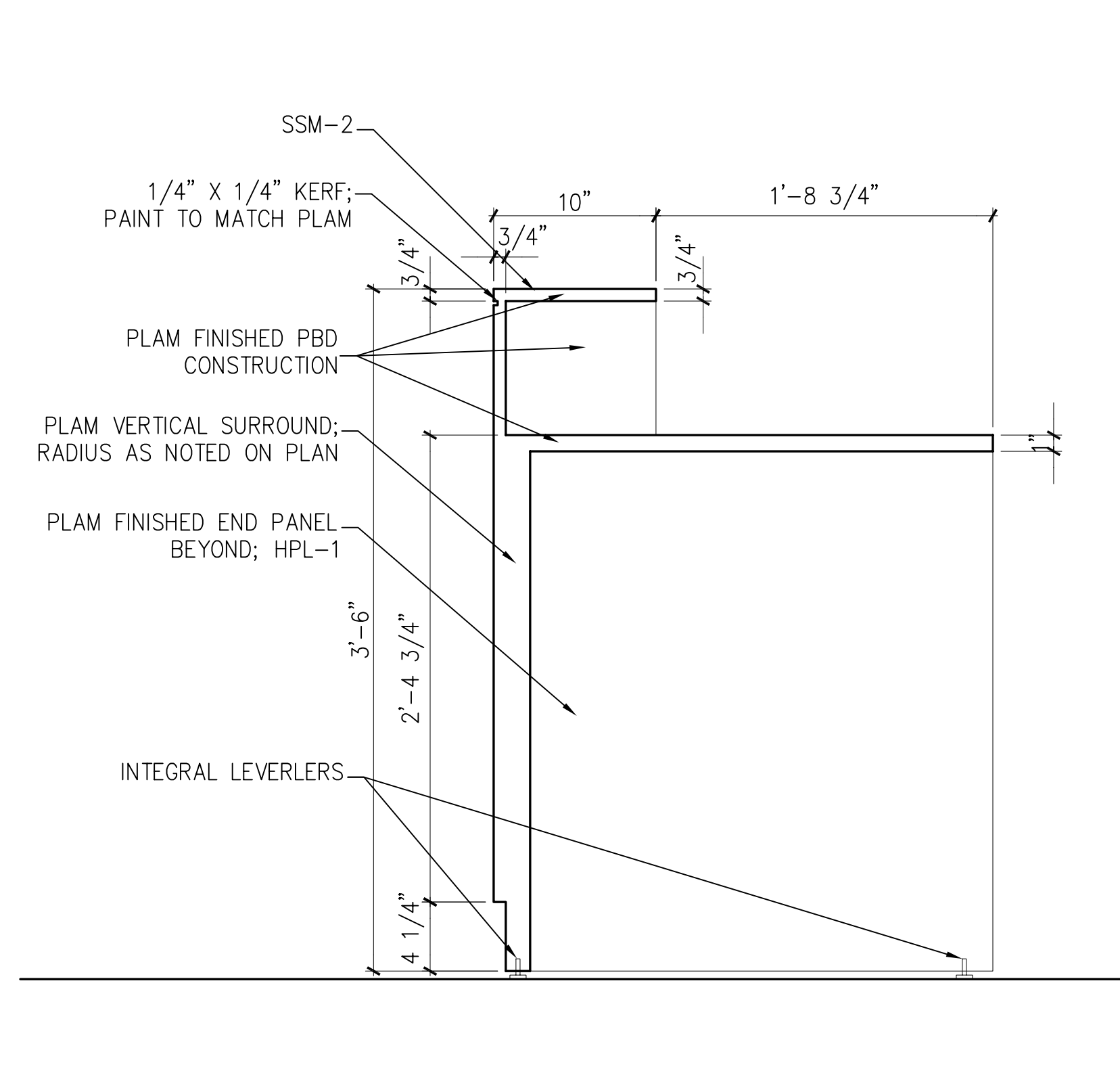
A1 ADMISSIONS DESK  
1" = 1'-0" A1/A605



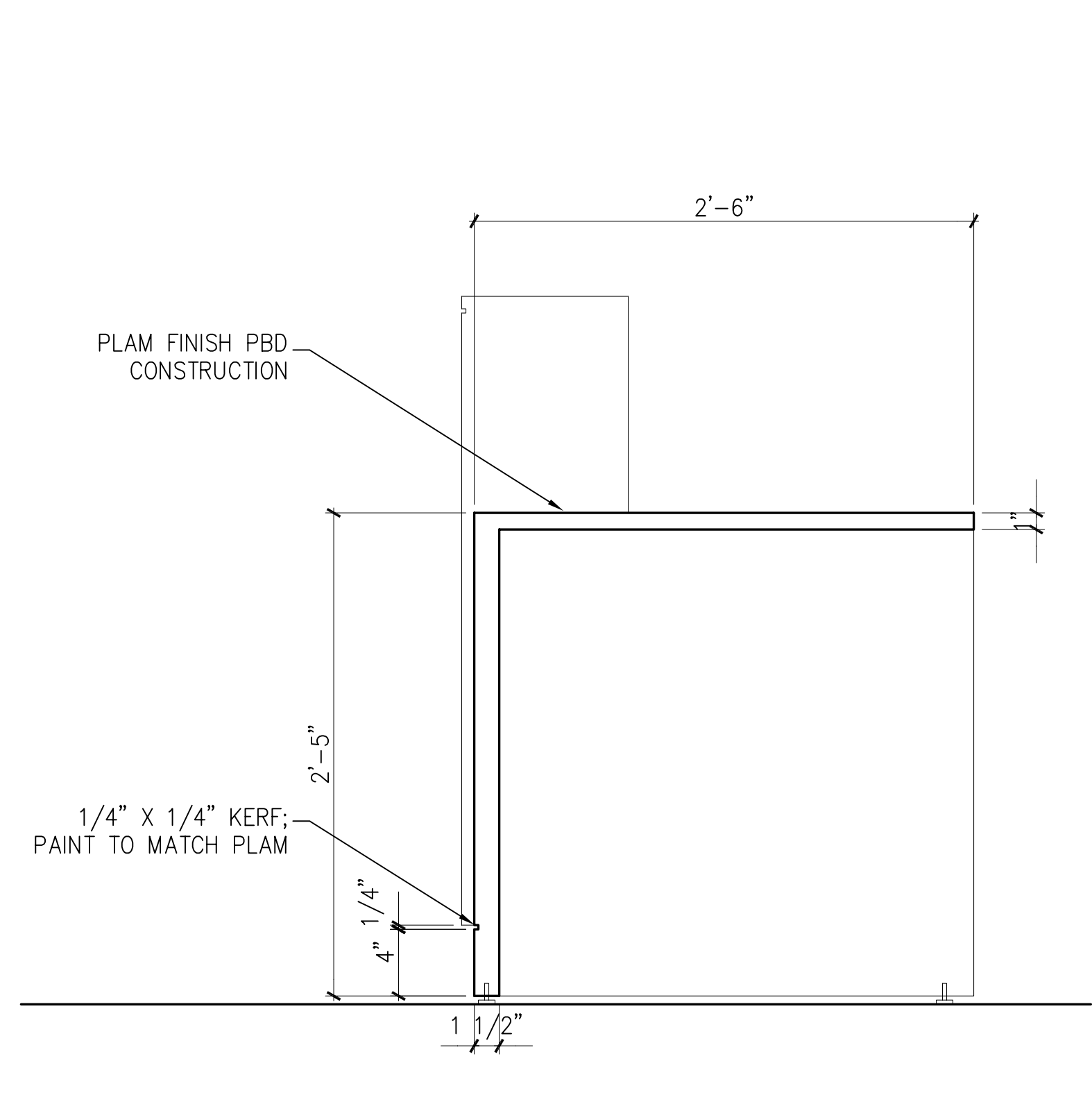
F9 SECTION THROUGH GUARD DESK  
1 1/2" = 1'-0" A12/711



F14 GUARD DESK  
1 1/2" = 1'-0" L14/A714



A9 CUST. SERVICE COUNTER RM. 131  
1 1/2" = 1'-0"



A14 CUST. SERVICE COUNTER RM. 131  
1 1/2" = 1'-0"

MATERIAL KEYED NOTES

- 3A CONCRETE STRUCTURE
  - 3B CONCRETE SLAB ON GRADE
  - 3C CONCRETE SLAB ON METAL DECK
  - 3D SLAB EDGE
  - 4A FACE BRICK ON CMU, (COLOR 1)
  - 4B FACE BRICK ON CMU, (COLOR 2)
  - 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
  - 4D GLASS BLOCK
  - 4E CONCRETE MASONRY UNIT
  - 4F THROUGH WALL FLASHING
  - 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (Ø 16" O. C., U.N.O.)
  - 4H CAVITY WALL INSULATION (2" U.N.O.)
  - 5A STRUCTURAL STEEL
  - 5B METAL DECK
  - 5C COLD FORMED METAL FRAMING
  - 5D GALV. STEEL RELIEVING ANGLE/LINTEL
  - 5E STEEL RAILING SYSTEM
  - 5F ALUM. LADDER
  - 5G PTD. ALUM MAST AND TRIM
  - 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
  - 6B WOOD TRIM
  - 6C ARCHITECTURAL WOODWORK
  - 7A SPRAY-ON FIREPROOFING
  - 7B BUILT-UP ROOFING SYSTEM
  - 7C PERIMETER INSULATION (2")
  - 7D INSULATED METAL PANEL
  - 7E METAL FLASHING
  - 7F 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - 7G FORMED ALUMINUM COPING
  - 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - 8A ALUMINUM WINDOW SYSTEM
  - 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - 8C ALUMINUM CURTAIN WALL
  - 8D HOLLOW METAL FRAME
  - 8E HOLLOW METAL DOOR
  - 8F WOOD DOOR
  - 8G ROOF HATCH
  - 8H TEMPERED GLASS (thickness)
  - 8I INSULATING GLASS UNIT (Ref. to Schedule)
  - 9A GYPSUM BOARD (5/8")
  - 9B EXTRUDED ALUM REVEAL MOULDING (dim)
  - 9C EXTERIOR GYPSUM SOFFIT
  - 9D SUSPENDED ACOUSTIC PANEL CEILING
  - 9E METAL STUDS
  - 9F WALL GUARDS (TYPE)
  - 9G CERAMIC TILE
  - 9H VINYL COMPOSITION TILE
  - 9I SHEET VINYL FLOORING
  - 9K RESILIENT BASE
  - 9L PAINT (Color-Ref. to Schedule)
  - 9M EPOXY PAINT (Color-Ref. to Schedule)
  - 10A VISUAL DISPLAY BOARD
  - 10B TOILET COMPARTMENTS
  - 10C ALUMINUM LOUVER
  - 10D CUBICLE CURTAIN & TRACK
  - 10E METAL LOCKER
  - 10F FIRE EXTINGUISHER AND CABINET
  - 10G OPERABLE PARTITION
  - 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - 11A RECESSED, MOTORIZED PROJECTION SCREEN
  - 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - 12A RECESSED ENTRANCE MAT AND FRAME
  - 12B WINDOW TREATMENT - BLINDS
  - 12C WINDOW TREATMENT - SUN SHADING
  - 14A HYDRAULIC ELEVATOR
  - 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
  - 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.
- REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Interior Details

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT MANAGER DATE

CHIEF - PROJ. MGT. & DESIGN DATE

TITLE DATE

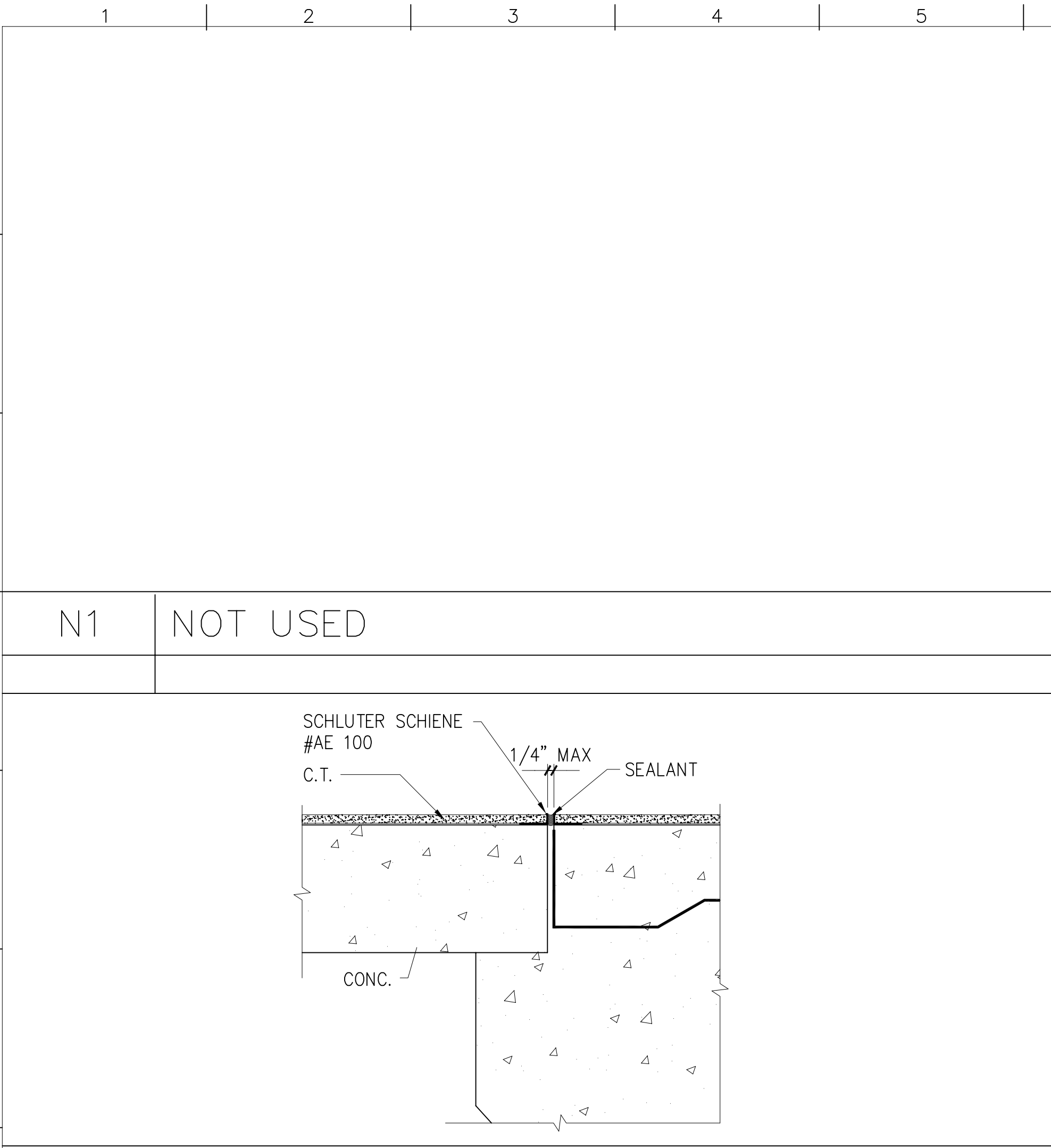
MONTGOMERY COLLEGE APPROVAL

DATE

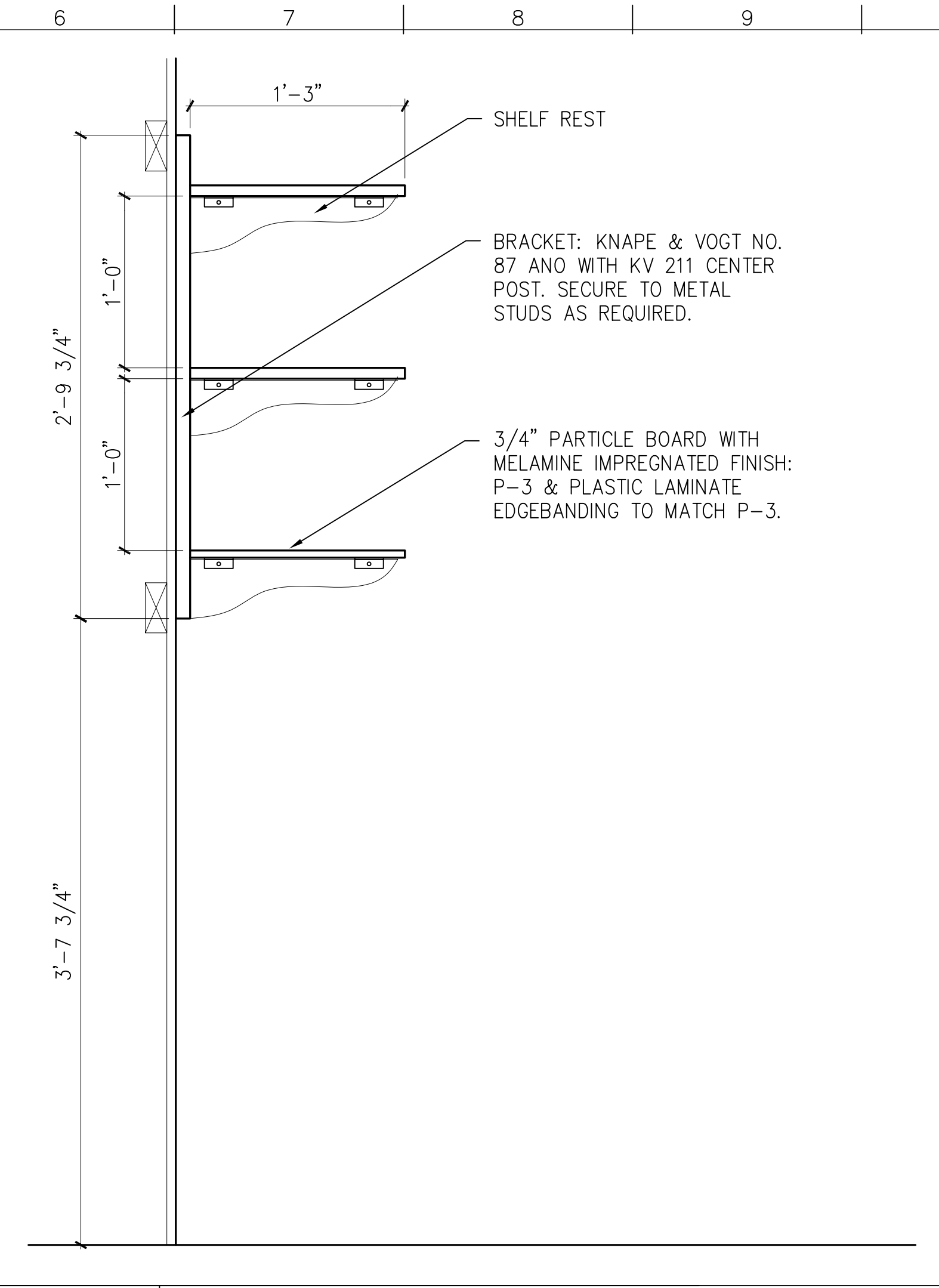
PROJECT NO. 34495.01  
DATE: 2/20/02

A714

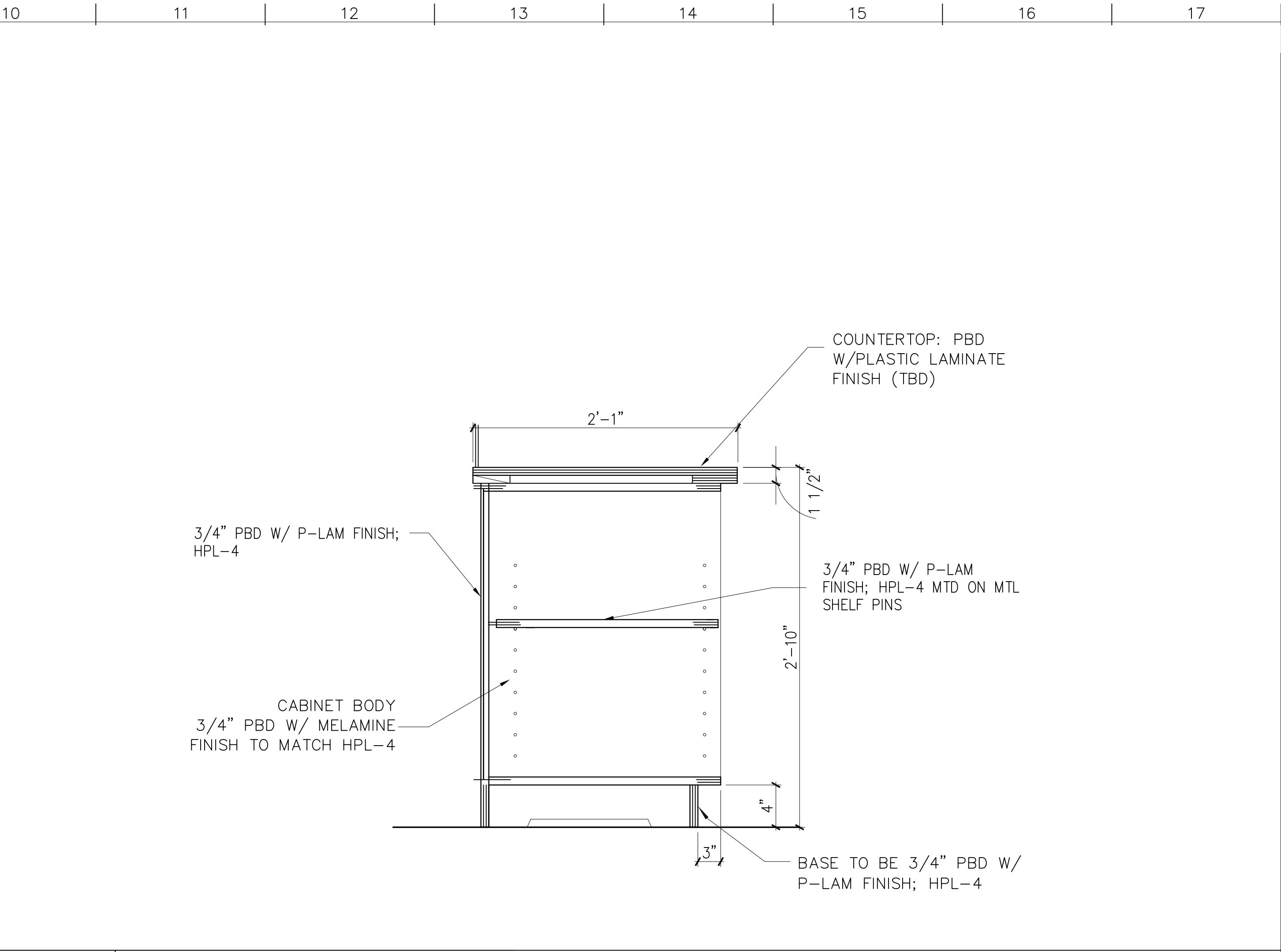
SHEET X OF XX



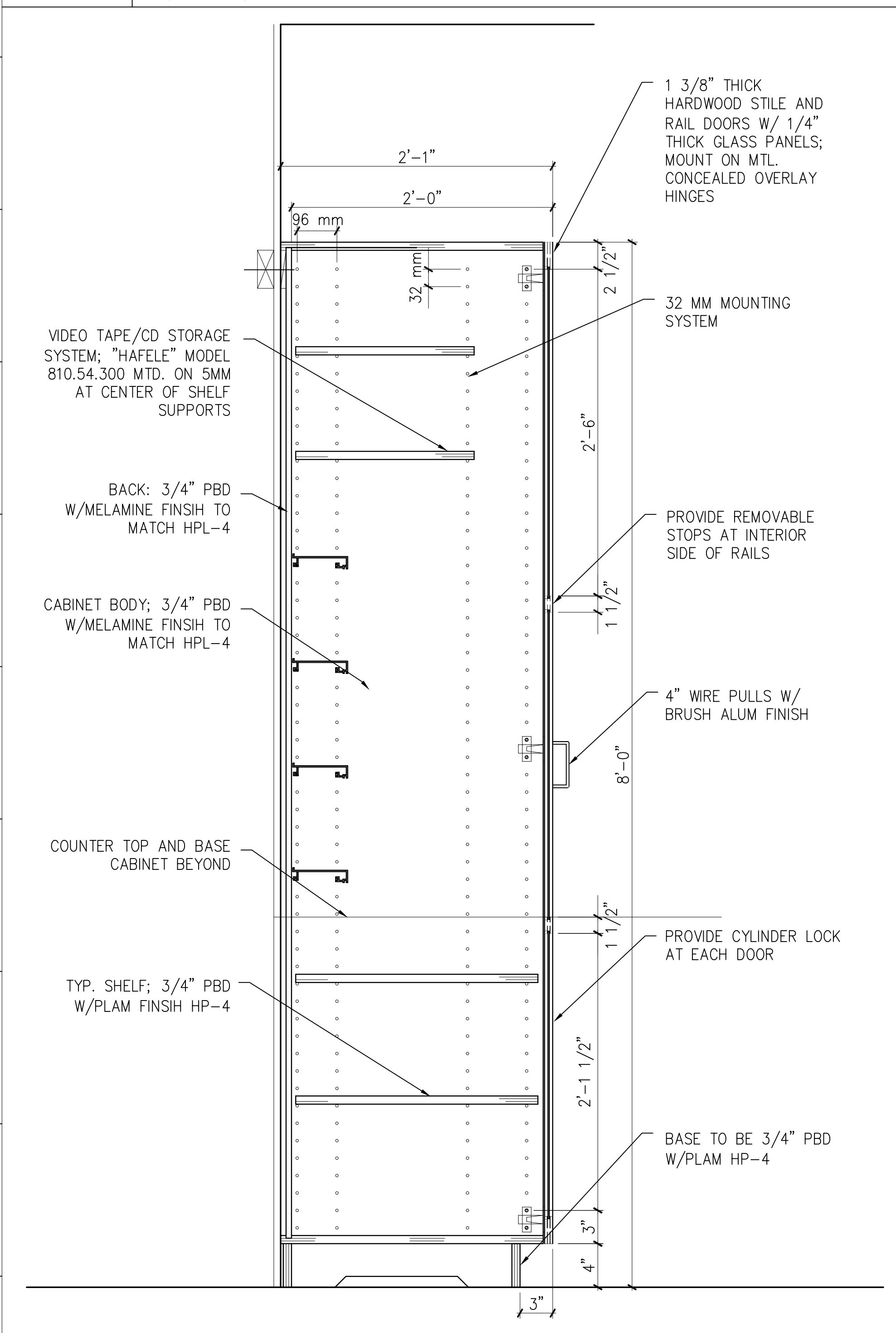
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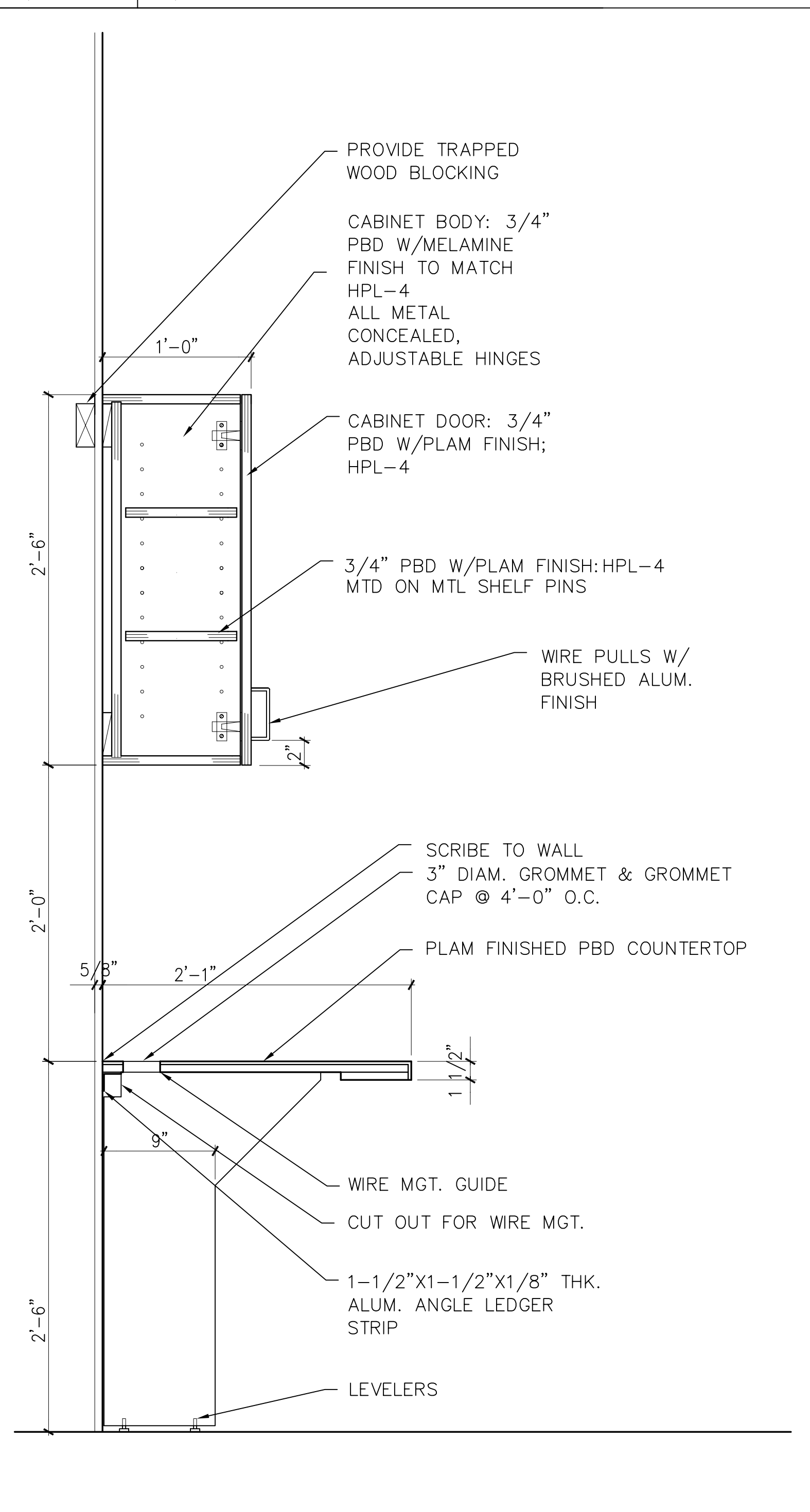
K6 SECTION AT ADJ. SHELVING



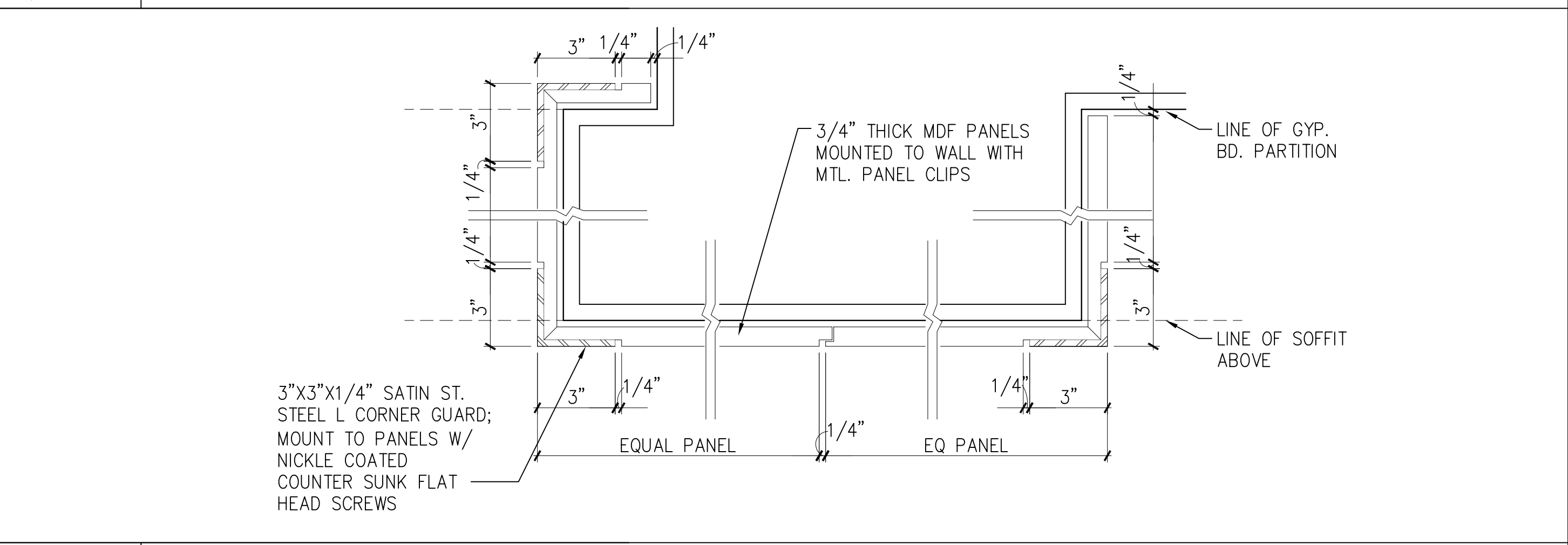
K10 COUNTER AT COMPUTER SERVICE CENTER



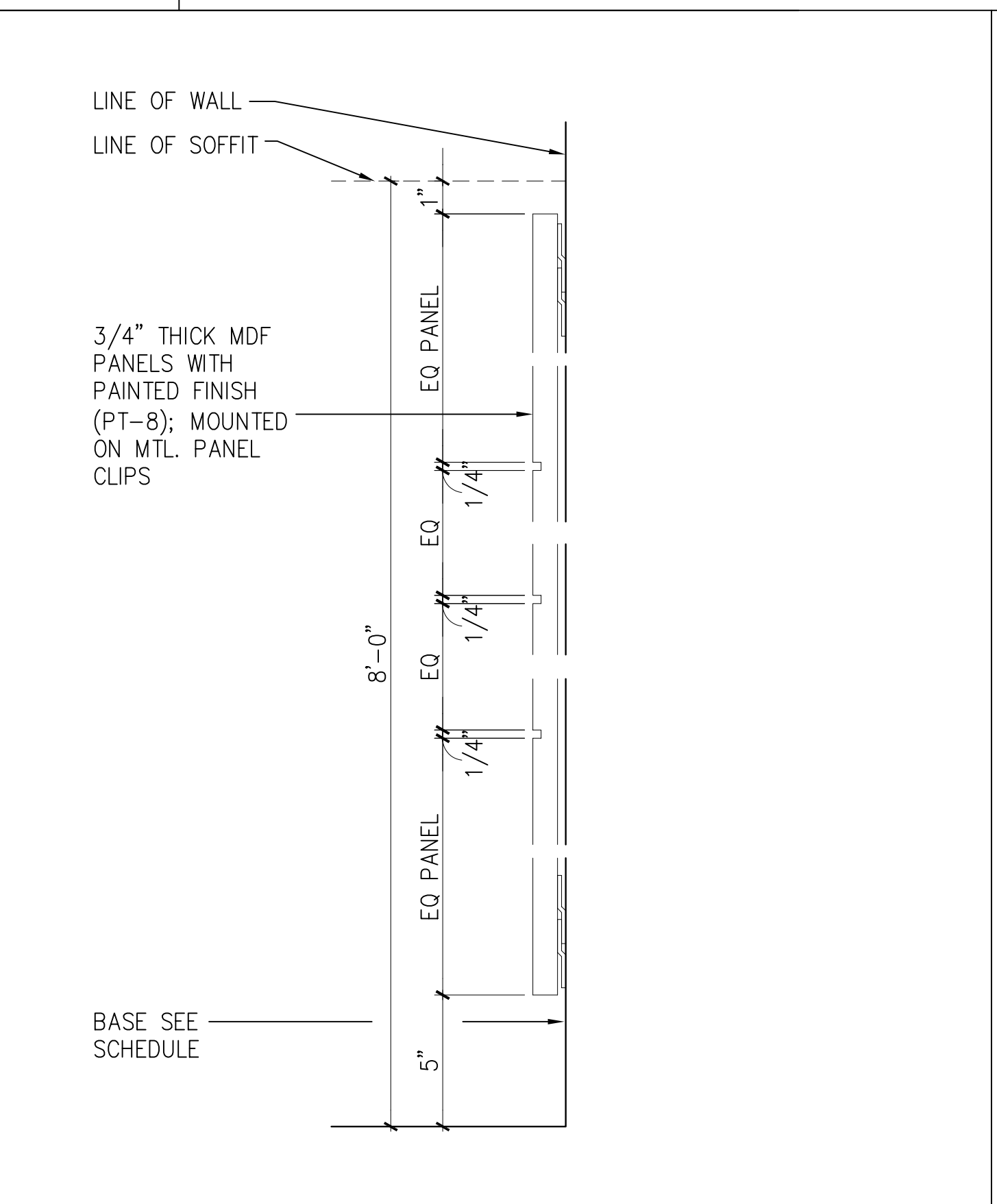
A1 FULL HEIGHT GLASS CABINET



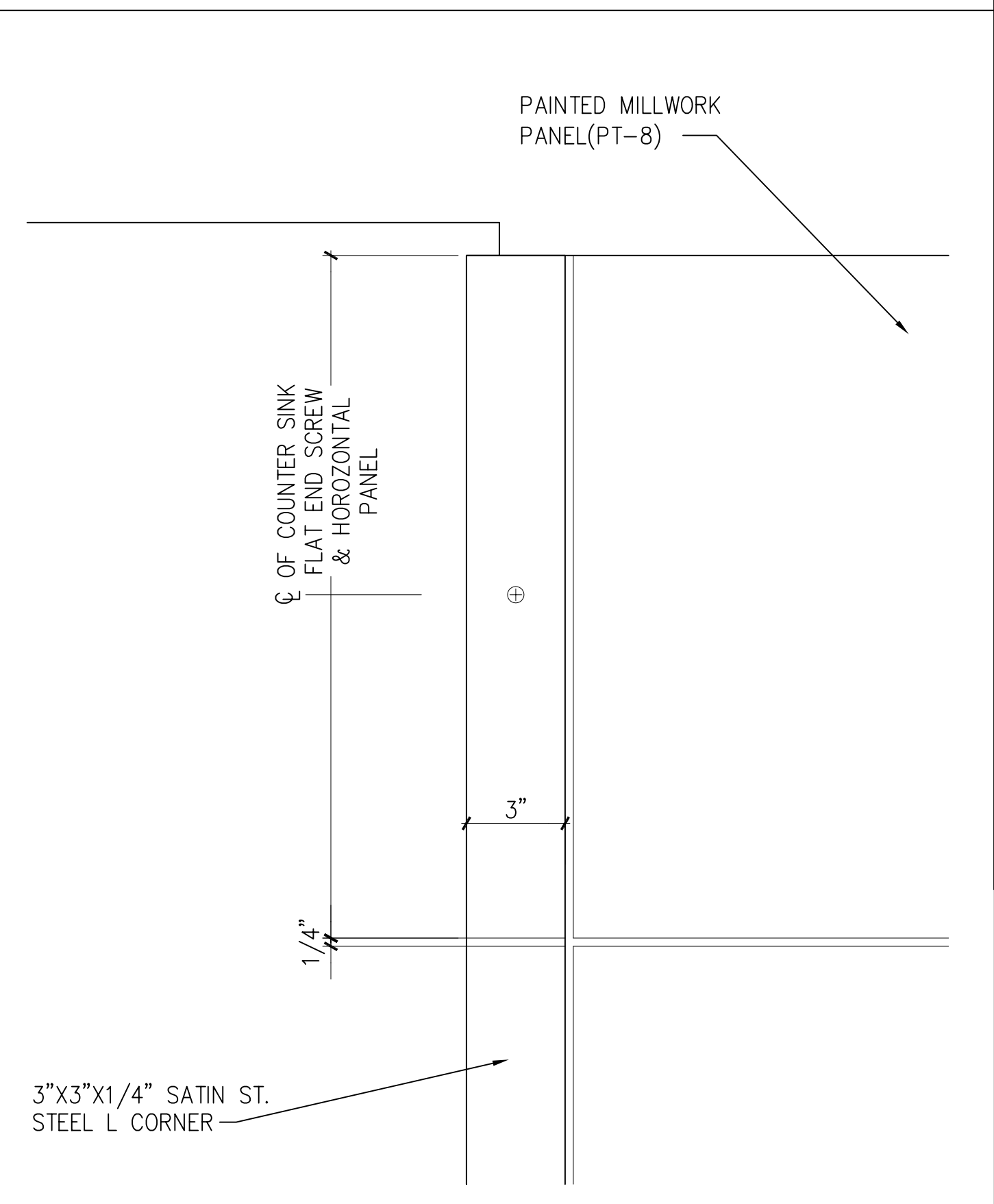
A6 ADMISSIONS COUNTER



G10 PLAN SECTION AT MDF WALL PANELS



A10 VERT. SECT. AT MDF PANELS



A14 PART. ENLARG. ELEV.

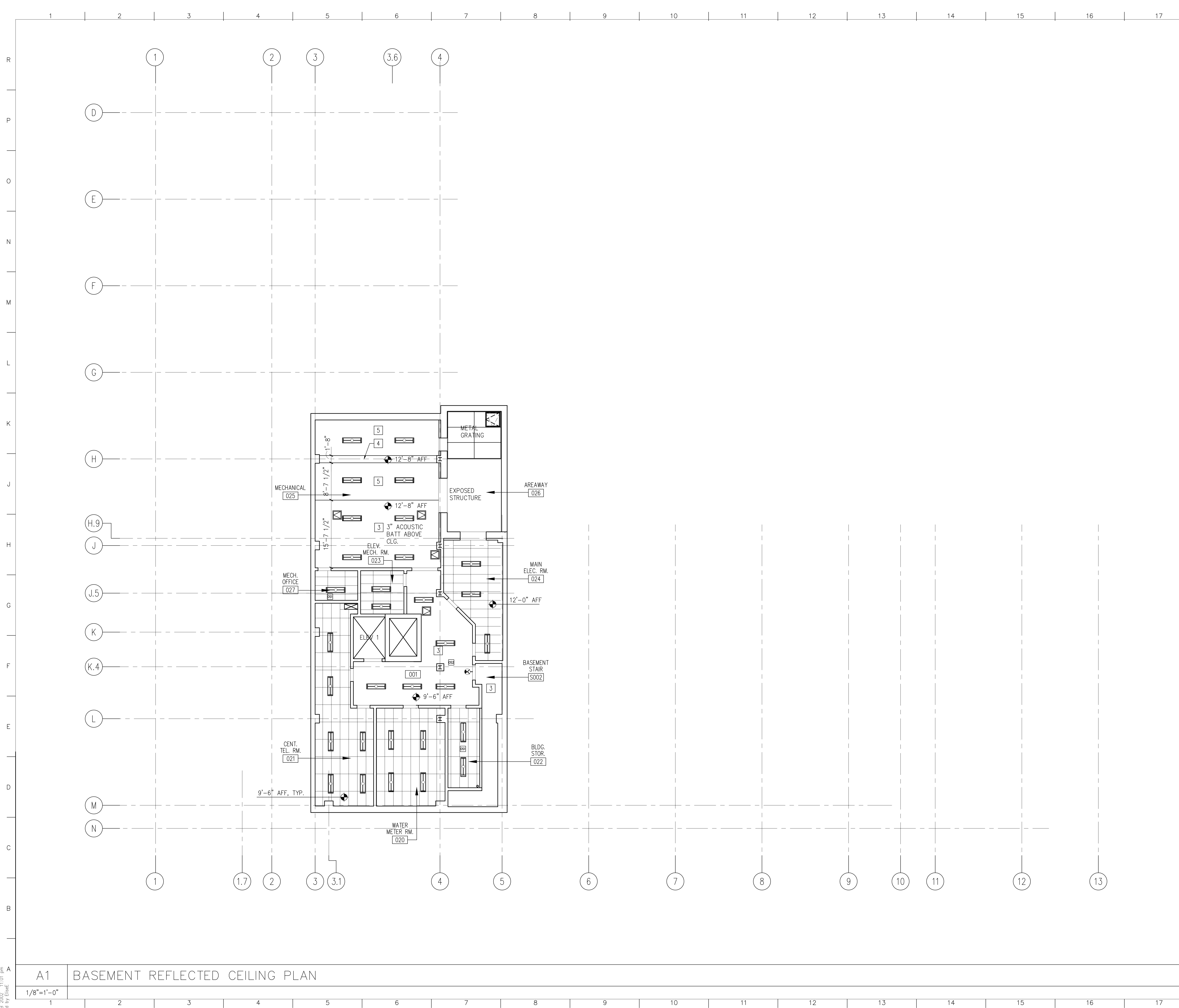
no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A715**  
 SHEET **I** OF **XX**

**Interior Details**  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

MONTGOMERY COLLEGE  
 APPROVAL  
 DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

P:\0299\34495.01\MARCH\PL01\MSB-A715.DWG  
 PLOTTED BY: EAC



**GENERAL NOTES**

- ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO. DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
- FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

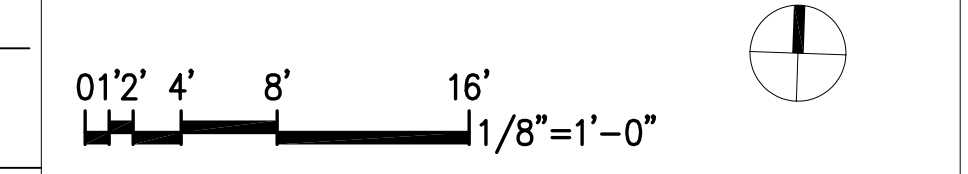
**SYMBOLS**

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊙ PENDANT MOUNTED LIGHTING FIXTURE
- ⊙ WALL -MTD LIGHT FIXTURE
- CLG-MTD PROJECTOR (N.I.C.)
- COVE-MTD FLUORESCENT FIXTURE
- SUSPENDED FLUORESCENT FIXTURE
- 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- GYPSUM BOARD FINISH, PAINTED
- SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊙ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊙ AIR DIFFUSER
- ⊙ AIR RETURN
- ⊙ VIDEO MONITOR SUPPORT
- ⊙ ACCESS PANEL OR ROOF HATCH

**KEYED NOTES**

- 1 PROJECTION SCREEN
- 2 EXTERIOR GWB. SOFFIT, PAINTED.
- 3 GWB. CEILING, PAINTED.
- 4 GWB. SOFFIT, PAINTED, PART. TYPE A20.
- 5 EXPOSED CEILING
- 6 CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.

no.	revisions/submissions	date



**Basement Reflected Ceiling Plan**

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

PROJECT # CC-01-MC-97/98-318

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND

PROJECT # CC-01-MC-97/98-318

A800

SHEET 1 OF 1

PROJECT NO. 34495.01  
DATE: 2/20/02

DEPARTMENT OF GENERAL SERVICES APPROVAL

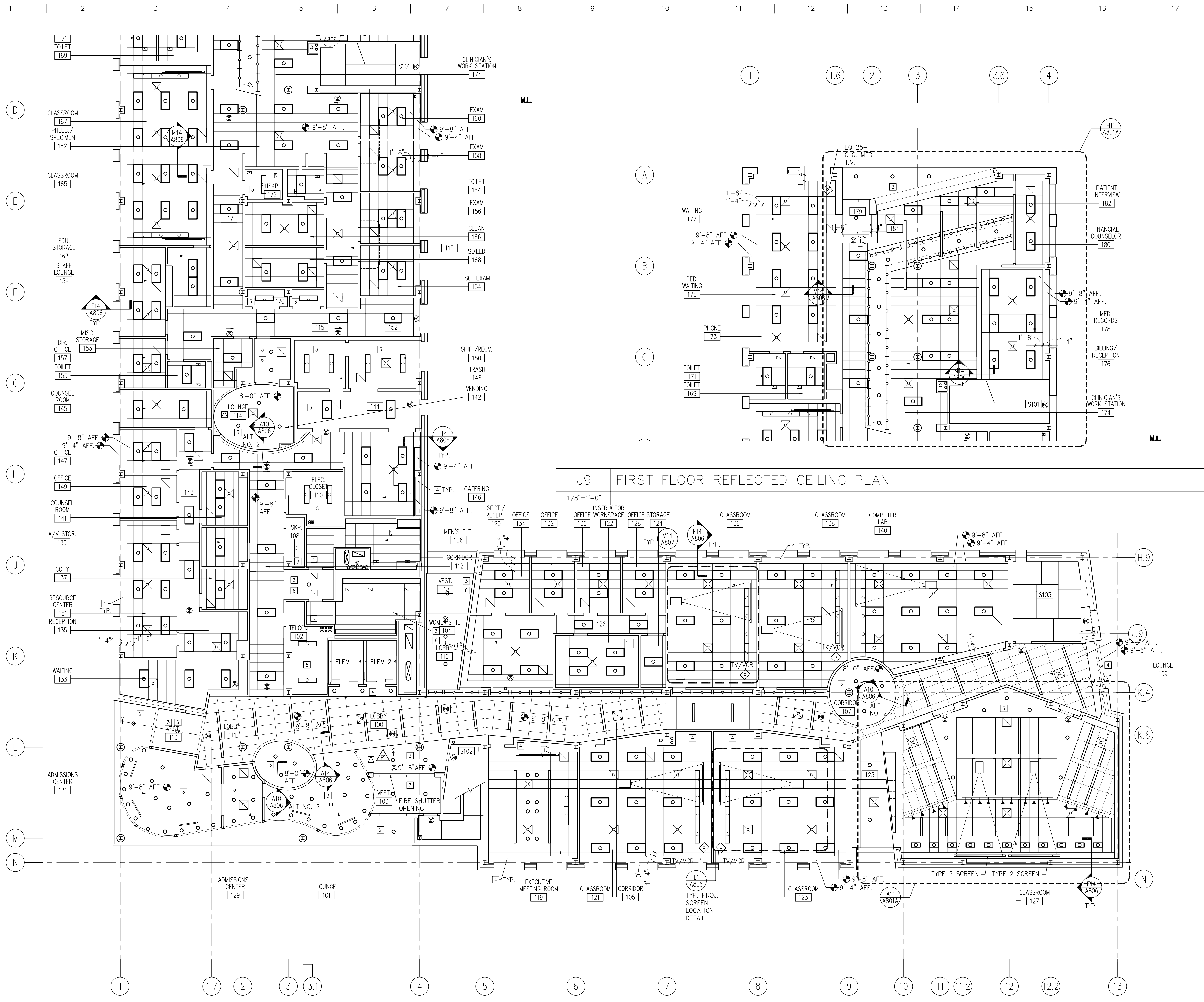
MONTGOMERY COLLEGE APPROVAL

PROJECT MANAGER DATE TITLE

CHIEF - PROJ. MGT. & DESIGN DATE TITLE

A1 BASEMENT REFLECTED CEILING PLAN  
1/8"=1'-0"

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Printed by Elise



J9 FIRST FLOOR REFLECTED CEILING PLAN  
1/8"=1'-0"

GENERAL NOTES

1. ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO. DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
2. FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

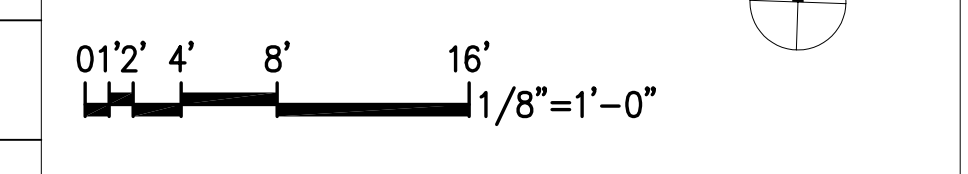
SYMBOLS

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊕ PENDANT MOUNTED LIGHTING FIXTURE
- ⊗ WALL -MTD LIGHT FIXTURE
- CLG-MTD PROJECTOR (N.I.C.)
- COVE-MTD FLUORESCENT FIXTURE
- SUSPENDED FLUORESCENT FIXTURE
- 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- GYPSUM BOARD FINISH, PAINTED
- SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- ▭ RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊗ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊗ AIR DIFFUSER
- ⊗ AIR RETURN
- ⊗ VIDEO MONITOR SUPPORT
- ⊗ ACCESS PANEL OR ROOF HATCH

KEYED NOTES

- 1] PROJECTION SCREEN
- 2] EXTERIOR GWB. SOFFIT, PAINTED.
- 3] GWB. CEILING, PAINTED.
- 4] GWB. SOFFIT, PAINTED, PART. TYPE A20.
- 5] EXPOSED CEILING
- 6] CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.

no.	revisions/submissions	date



HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

First Floor Reflected Ceiling Plan

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

PROJECT MANAGER DATE TITLE

CHIEF - PROJ. MGT. & DESIGN DATE TITLE

PROJECT NO. 34495.01  
DATE: 2/20/02  
A801  
SHEET 1 OF 1

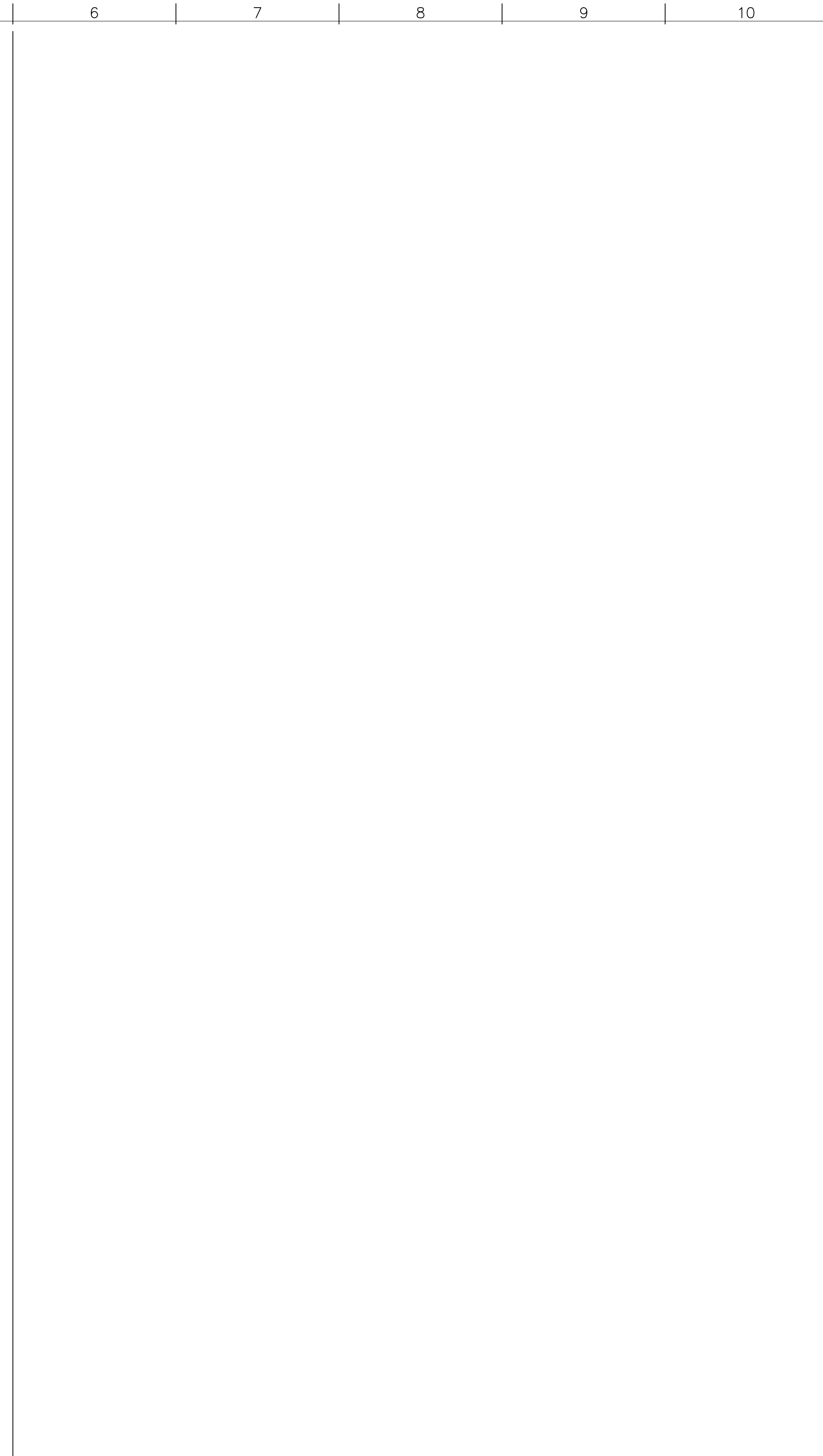
A1 FIRST FLOOR REFLECTED CEILING PLAN  
1/8"=1'-0"

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2/20/02 10:25 AM  
Printed by ELEC

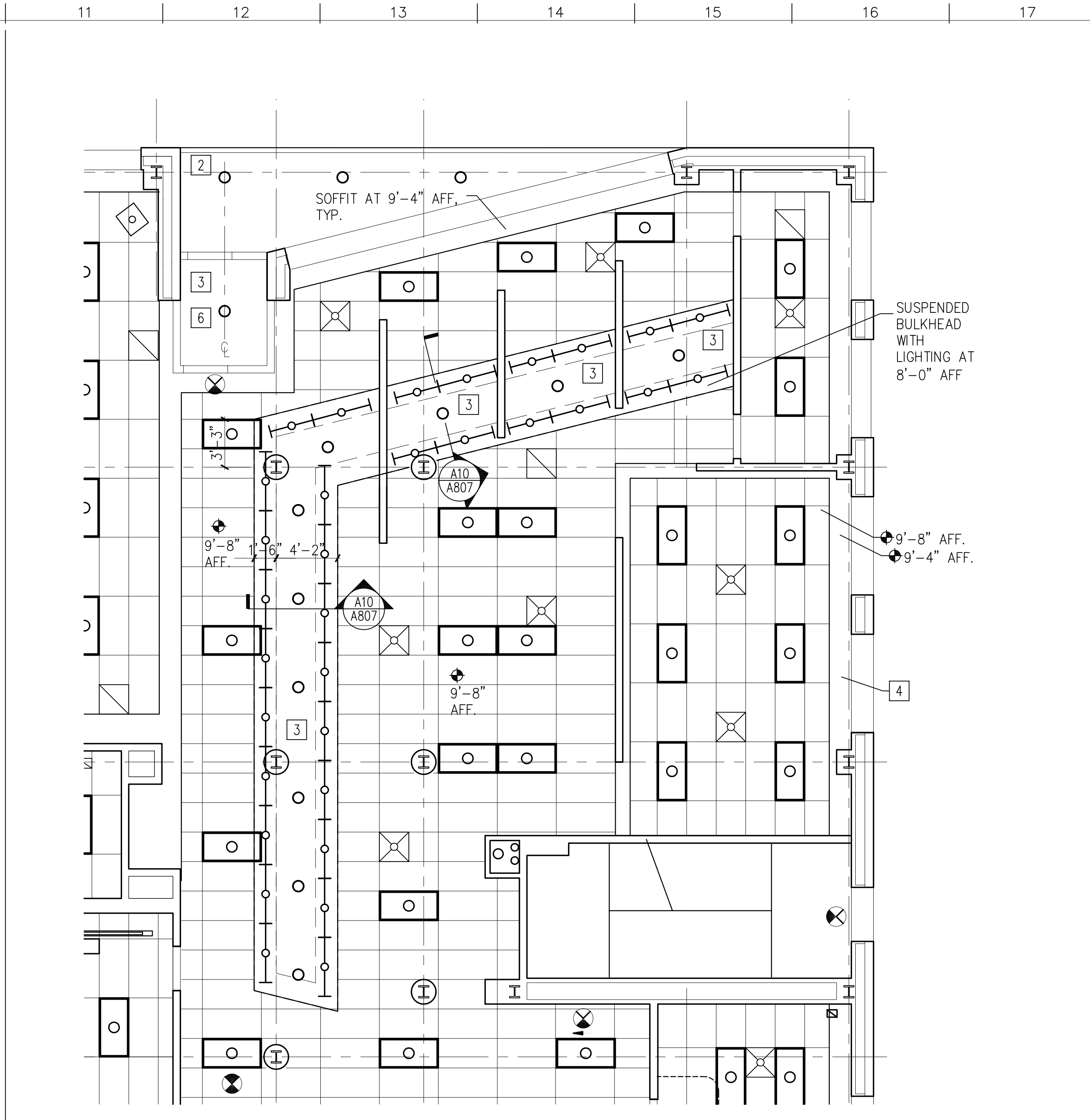
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 Printed by Elise



**A6 ROOM 444 REFLECTED CEILING PLAN**  
 1/4" = 1'-0"  
 A1/A804



**H11 FIRST FLOOR CLINIC REFLECTED CEILING PLAN**  
 3/16" = 1'-0"  
 J9/A801



**A11 FIRST FLOOR LECTURE ROOM REFLECTED CEILING PLAN**  
 3/16" = 1'-0"  
 A1/A801

**GENERAL NOTES**

- ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO. DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
- FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

**SYMBOLS**

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊕ PENDANT MOUNTED LIGHTING FIXTURE
- ⊖ WALL -MTD LIGHT FIXTURE
- CLG-MTD PROJECTOR (N.I.C.)
- COVE-MTD FLUORESCENT FIXTURE
- SUSPENDED FLUORESCENT FIXTURE
- 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- GYPSUM BOARD FINISH, PAINTED
- ▨ SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- ▭ RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊗ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊠ AIR DIFFUSER
- ⊡ AIR RETURN
- ⊙ VIDEO MONITOR SUPPORT
- ⊠ ACCESS PANEL OR ROOF HATCH

**KEYED NOTES**

- PROJECTION SCREEN
- EXTERIOR GWB. SOFFIT, PAINTED.
- GWB. CEILING, PAINTED.
- GWB. SOFFIT, PAINTED, PART. TYPE A20.
- EXPOSED CEILING
- CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.
- MAIN UNI-STRUT RAILS (16") TO BE LEVEL IN ALL PLANS TO WITHIN 1/32" CUMULATIVE.
- MAIN UNI-STRUT RAILS TO BE SECURED TO STRUCTURE ABOVE CEILING WITH OPEN FACE OF P1000 EXTENDING 1/4" BELOW FINISHED CEILING.
- ALL DIMENSIONS FOR UNI-STRUT ARE TO CENTERLINES OF THE CHANNELS.

**HEALTH SCIENCES BUILDING**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**First Floor Reflected Ceiling Plan**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

no.	revisions/submissions	date

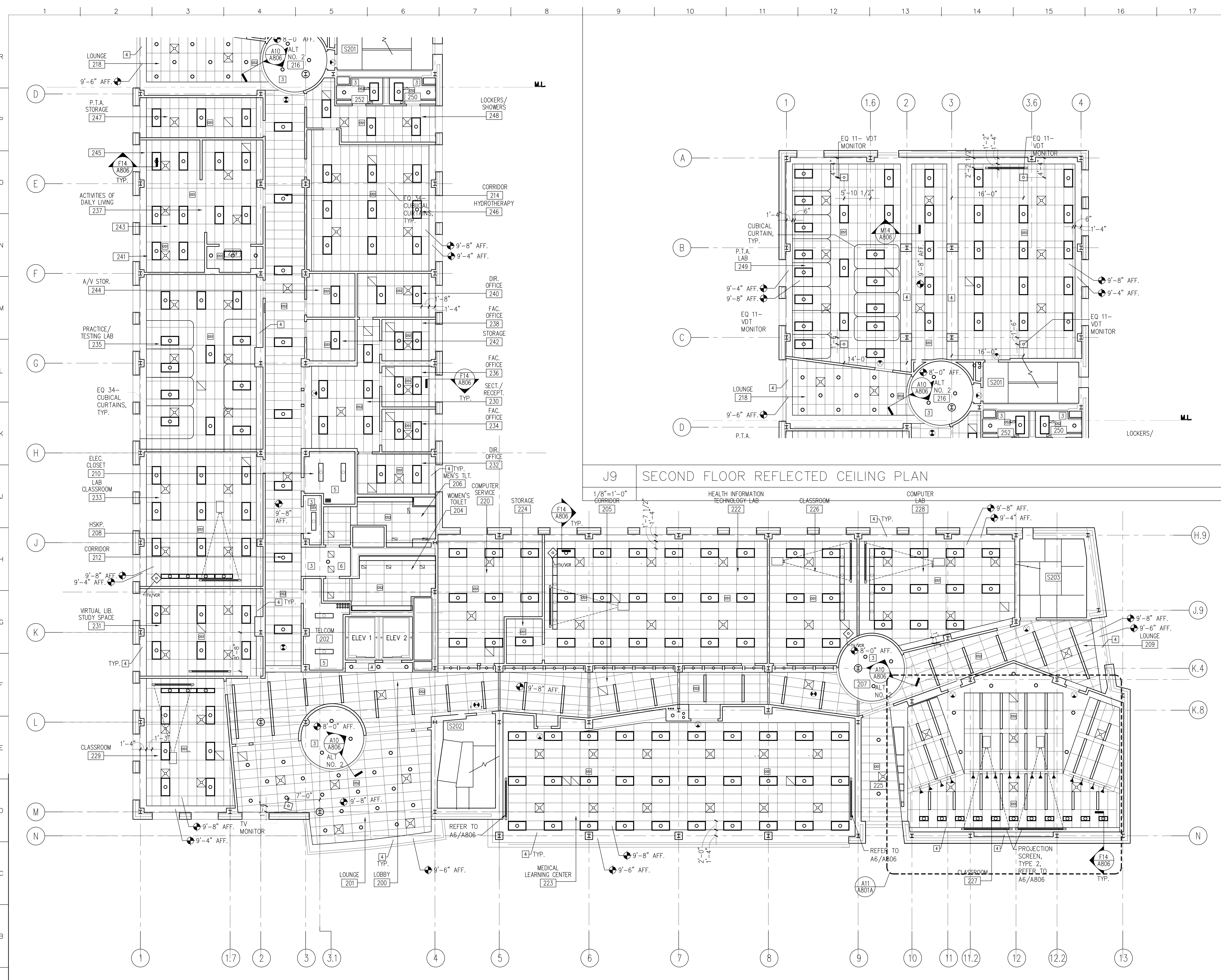
0' 12' 4' 8' 16'  
 1/8" = 1'-0"

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

CHIEF - PROJ. MGT. & DESIGN: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A801A**  
 SHEET X OF X



J9 SECOND FLOOR REFLECTED CEILING PLAN

GENERAL NOTES

- ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO. DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
- FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

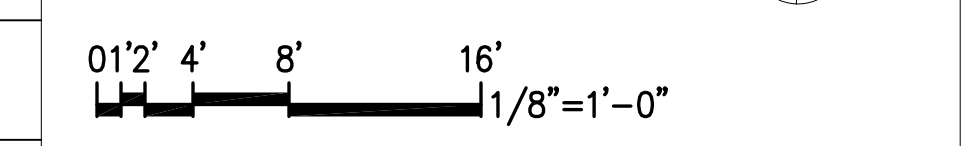
SYMBOLS

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊕ PENDANT MOUNTED LIGHTING FIXTURE
- ⊖ WALL -MTD LIGHT FIXTURE
- CLG-MTD PROJECTOR (N.I.C.)
- COVE-MTD FLUORESCENT FIXTURE
- SUSPENDED FLUORESCENT FIXTURE
- 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- GYPSUM BOARD FINISH, PAINTED
- SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- ▾ RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊗ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊠ AIR DIFFUSER
- ⊡ AIR RETURN
- ⊞ VIDEO MONITOR SUPPORT
- ⊞ ACCESS PANEL OR ROOF HATCH

KEYED NOTES

- PROJECTION SCREEN
- EXTERIOR GWB. SOFFIT, PAINTED.
- GWB. CEILING, PAINTED.
- GWB. SOFFIT, PAINTED, PART. TYPE A20.
- EXPOSED CEILING
- CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.

no.	revisions/submissions	date



A1 SECOND FLOOR REFLECTED CEILING PLAN

1/8"=1'-0"

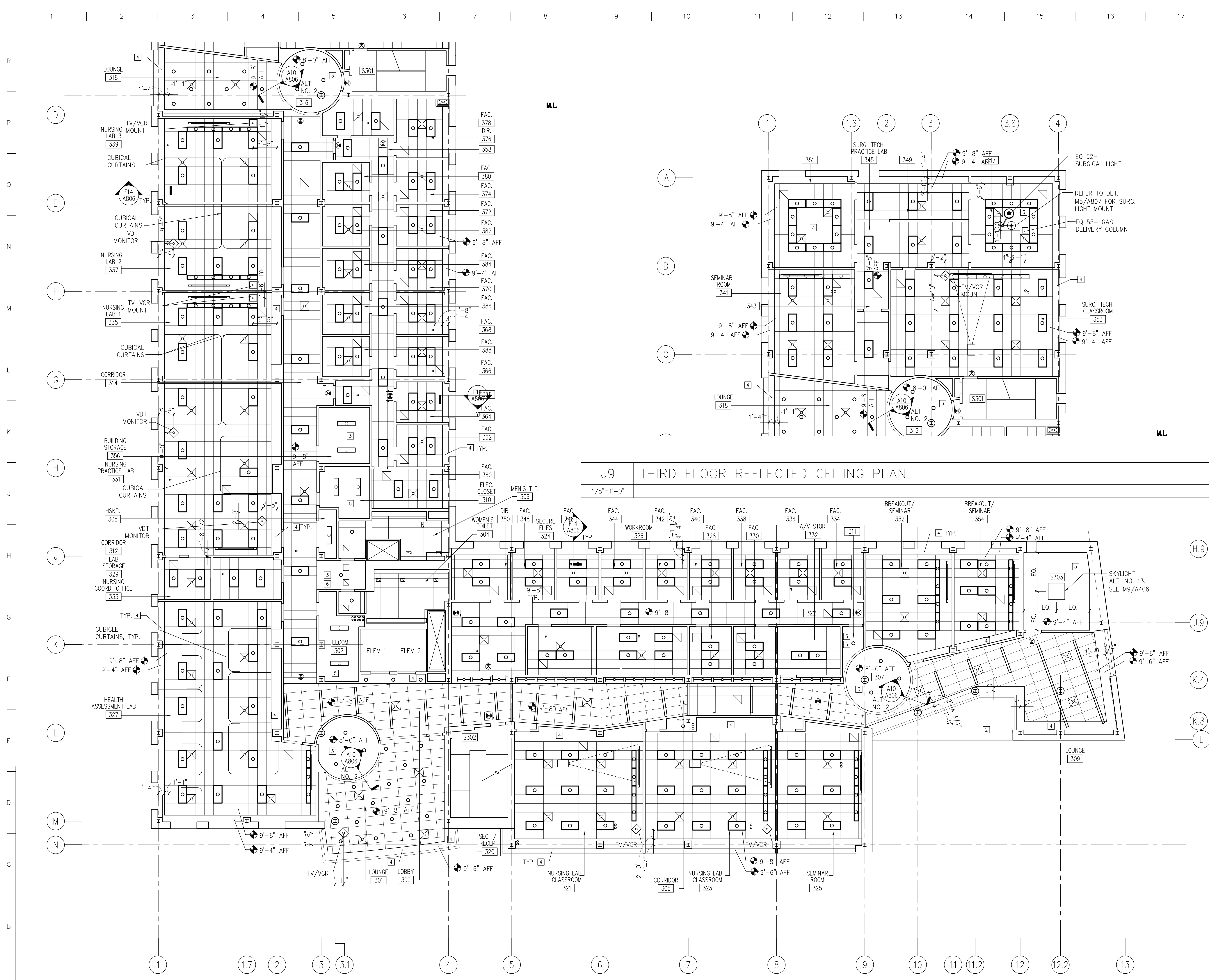
MONTGOMERY COLLEGE APPROVAL  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

**Second Floor Reflected Ceiling Plan**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-97/98-318

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A802**  
 SHEET X OF XX





J9 THIRD FLOOR REFLECTED CEILING PLAN  
1/8"=1'-0"

GENERAL NOTES

- ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
- FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

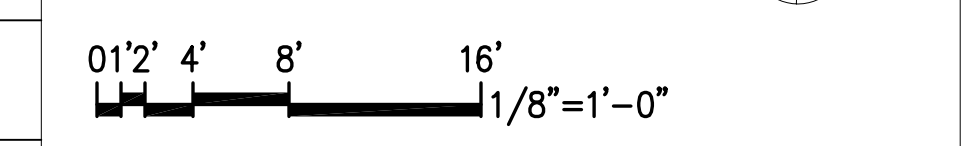
SYMBOLS

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊕ PENDANT MOUNTED LIGHTING FIXTURE
- ⊖ WALL -MTD LIGHT FIXTURE
- ⊞ CLG-MTD PROJECTOR (N.I.C.)
- ⊟ COVE-MTD FLUORESCENT FIXTURE
- ⊠ SUSPENDED FLUORESCENT FIXTURE
- ⊡ 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- ⊢ 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- ⊣ CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- ⊤ GYPSUM BOARD FINISH, PAINTED
- ⊥ SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- ⊦ RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊧ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊨ AIR DIFFUSER
- ⊩ AIR RETURN
- ⊪ VIDEO MONITOR SUPPORT
- ⊫ ACCESS PANEL OR ROOF HATCH

KEYED NOTES

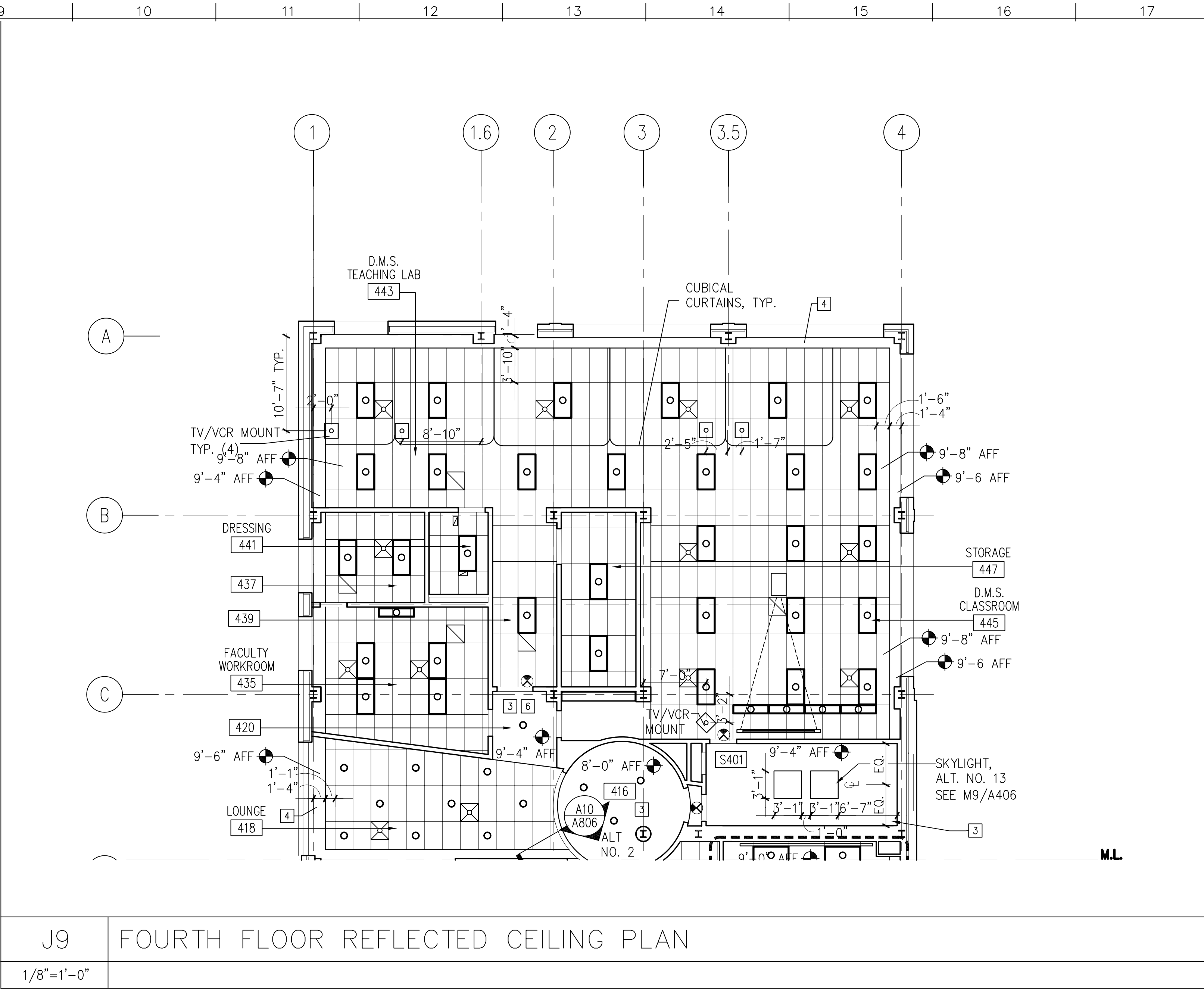
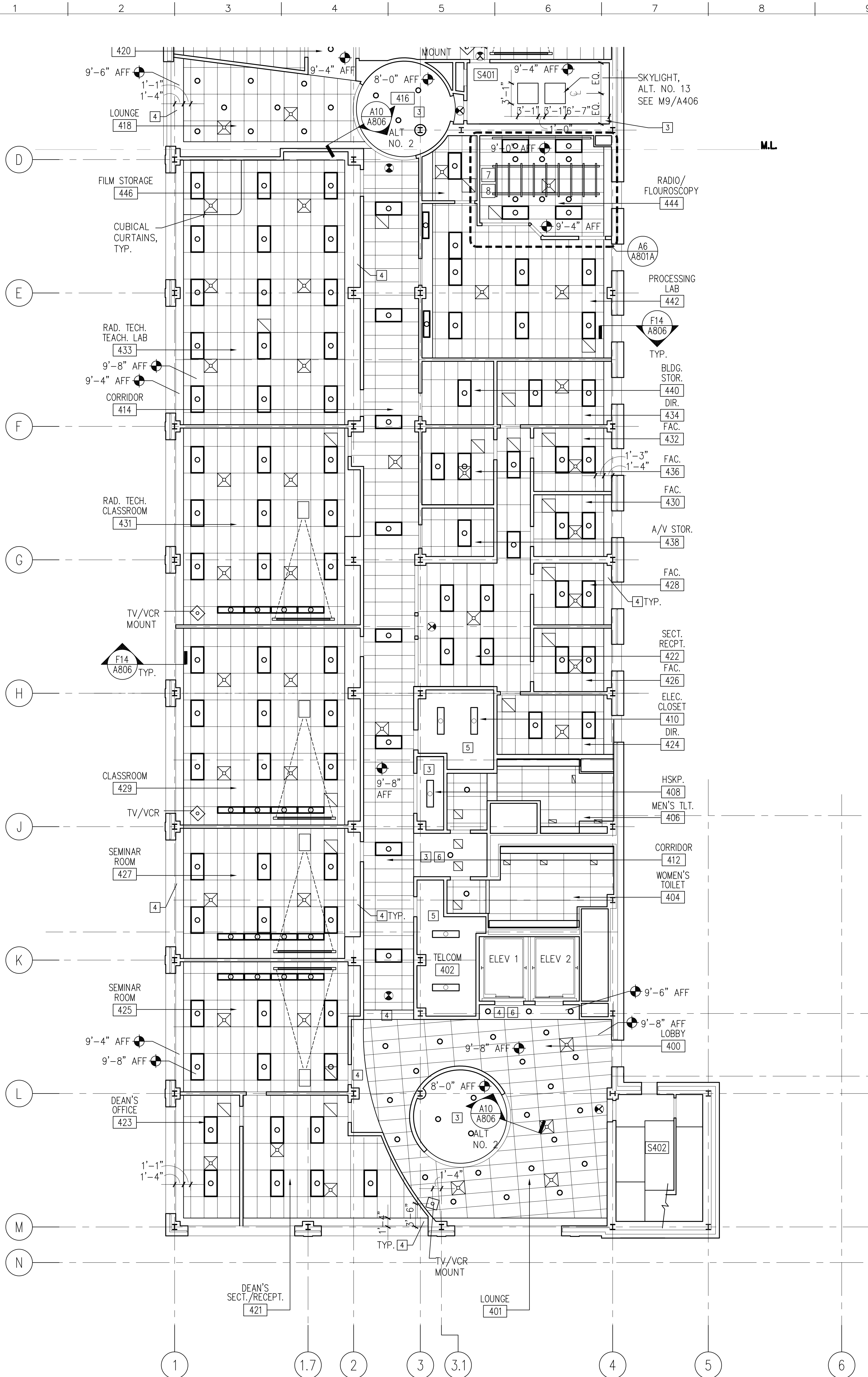
- 1] PROJECTION SCREEN
- 2] EXTERIOR GWB. SOFFIT, PAINTED.
- 3] GWB. CEILING, PAINTED.
- 4] GWB. SOFFIT, PAINTED, PART. TYPE A20.
- 5] EXPOSED CEILING
- 6] CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.

no.	revisions/submissions	date



A1 THIRD FLOOR REFLECTED CEILING PLAN  
1/8"=1'-0"

MONTGOMERY COLLEGE APPROVAL  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE TITLE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE  
**Third Floor Reflected Ceiling Plan**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 PROJECT NO. 34495.01  
 DATE: 2/20/02  
**A803**  
 SHEET X OF XX



J9 FOURTH FLOOR REFLECTED CEILING PLAN  
1/8"=1'-0"

GENERAL NOTES

- ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO. DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
- FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

SYMBOLS

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊙ PENDANT MOUNTED LIGHTING FIXTURE
- ⊙ WALL -MTD LIGHT FIXTURE
- CLG-MTD PROJECTOR (N.I.C.)
- COVE-MTD FLUORESCENT FIXTURE
- SUSPENDED FLUORESCENT FIXTURE
- 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- GYPSUM BOARD FINISH, PAINTED
- SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊙ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊙ AIR DIFFUSER
- ⊙ AIR RETURN
- ⊙ VIDEO MONITOR SUPPORT
- ⊙ ACCESS PANEL OR ROOF HATCH

KEYED NOTES

- 1 PROJECTION SCREEN
- 2 EXTERIOR G.W.B. SOFFIT, PAINTED.
- 3 G.W.B. CEILING, PAINTED.
- 4 G.W.B. SOFFIT, PAINTED, PART. TYPE A20.
- 5 EXPOSED CEILING
- 6 CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.
- 7 R/F EQUIPMENT VENDOR TO PROVIDE FOR MISC. METAL FRAMING FOR CEILING MTD. EQUIPMENT
- 8 CONTRACTORS SHALL COORDINATE CEILING LIGHTING AND HVAC WITH R/F EQUIPMENT VENDOR

no.	revisions/submissions	date



A1 FOURTH FLOOR REFLECTED CEILING PLAN  
1/8"=1'-0"

PROJECT NO. 44495.01  
 DATE: 2/20/02  
**A804**  
 SHEET X OF XX

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Fourth Floor Reflected Ceiling Plan**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

DATE  
 TITLE  
 DATE  
 DATE

P:\099\34495.01\MARCH\PL01\WB-804.DWG  
 2/20/02  
 Printed by Euseb



**GENERAL NOTES**

1. ACOUSTICAL PANEL CEILING GRIDS SHALL BE CENTERED WITHIN EACH ROOM IN BOTH DIRECTIONS. UNO. DIMENSIONS ARE SHOWN ON THE PLANS LOCATING THE START OF ACOUSTICAL PANEL CEILING GRIDS FROM THE COLUMN LINE AT THE EXTERIOR WALL.
2. FOR ROOMS WITH PROJECTION SCREENS, REFER TO DETAILS L1/A806 AND M14/A807 TO ESTABLISH THE TYPICAL RELATIONSHIP OF THE CEILING GRID TO THE FRONT WALL AND LOCATE LIGHTING, PROJECTION SCREENS, PROJECTOR MOUNTS AND MONITOR MOUNTS.

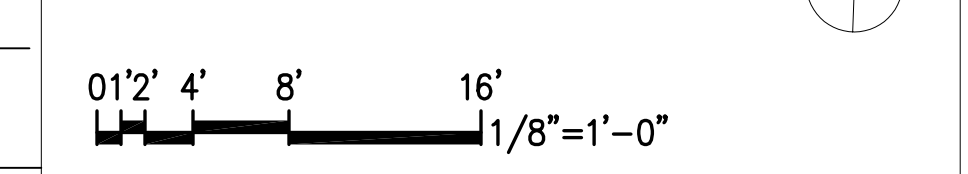
**SYMBOLS**

- RECESSED DOWNLIGHT
- ⊙ SURFACE MOUNTED DOWNLIGHT
- ⊙ PENDANT MOUNTED LIGHTING FIXTURE
- ♀ WALL -MTD LIGHT FIXTURE
- CLG-MTD PROJECTOR (N.I.C.)
- |— COVE-MTD FLUORESCENT FIXTURE
- |— SUSPENDED FLUORESCENT FIXTURE
- |— 1'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- |— 2'X4' RECESSED FLUORESCENT LIGHT FIXTURE
- |— CONTINUOUS LINEAR RECESSED MOUNTED LIGHT FIXTURE
- GYPSUM BOARD FINISH, PAINTED
- ▤ SUSPENDED ACOUSTIC CEILING PANEL SYSTEM
- ▤ RECESSED PROJECTION SCREEN, TYPE 1, U.N.O.
- ⊗ EXIT LIGHT (ARROW INDICATES DIRECTION TO EXIT)
- ⊠ AIR DIFFUSER
- ⊠ AIR RETURN
- VIDEO MONITOR SUPPORT
- ⊠ ACCESS PANEL OR ROOF HATCH

**KEYED NOTES**

- 1 PROJECTION SCREEN
- 2 EXTERIOR G.W.B. SOFFIT, PAINTED.
- 3 G.W.B. CEILING, PAINTED.
- 4 G.W.B. SOFFIT, PAINTED, PART. TYPE A20.
- 5 EXPOSED CEILING
- 6 CENTER LIGHT FIXTURES IN LENGTH AND WIDTH OF CEILING, UNLESS NOTED OTHERWISE.

no.	revisions/submissions	date



**Penthouse Reflected Ceiling Plan**

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

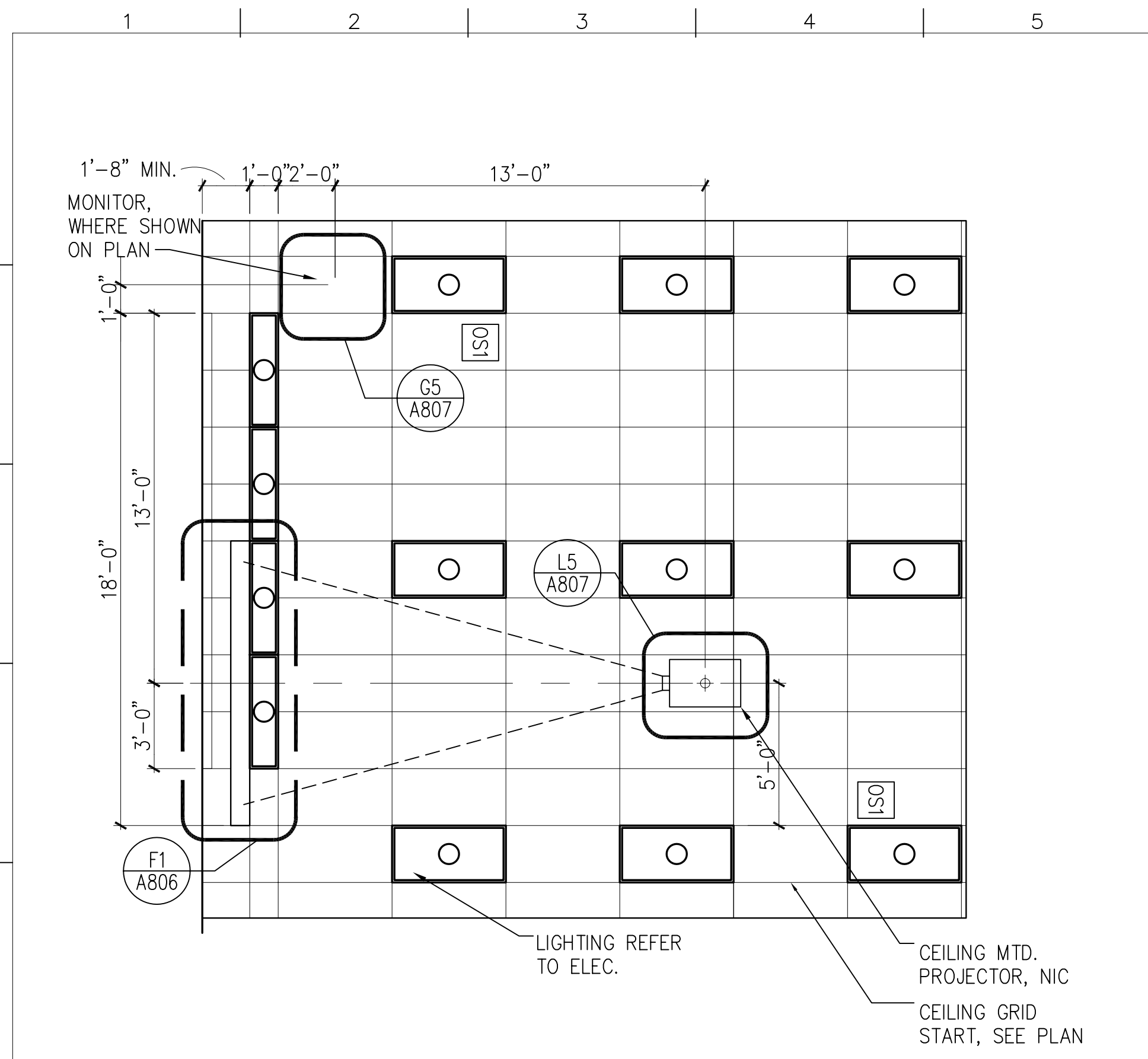
PROJECT NO. 34495.01  
DATE: 2/20/02  
**A805**  
SHEET X OF XX

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

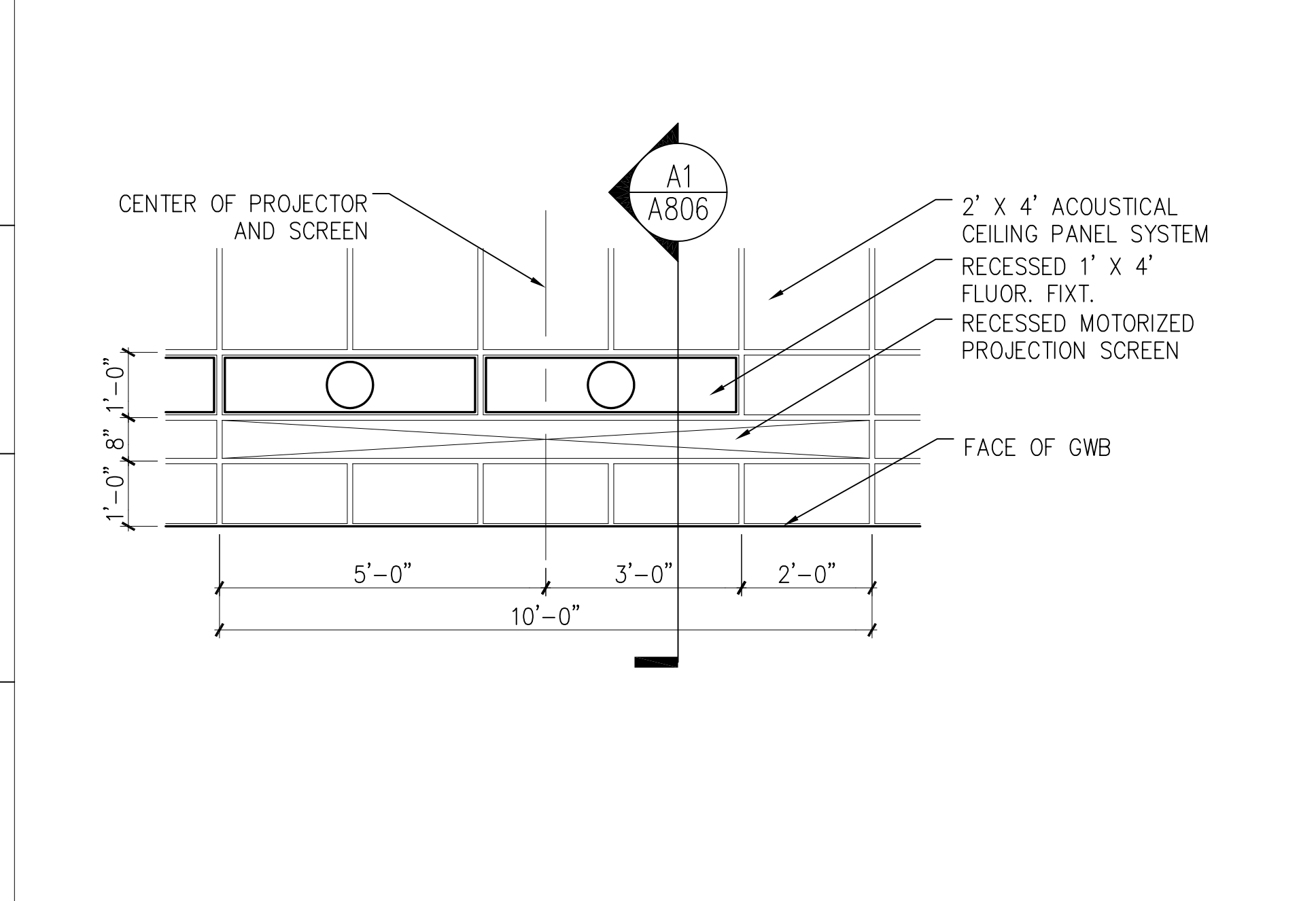
MONTGOMERY COLLEGE APPROVAL  
DATE

A1 PENTHOUSE REFLECTED CEILING PLAN  
1/8"=1'-0"

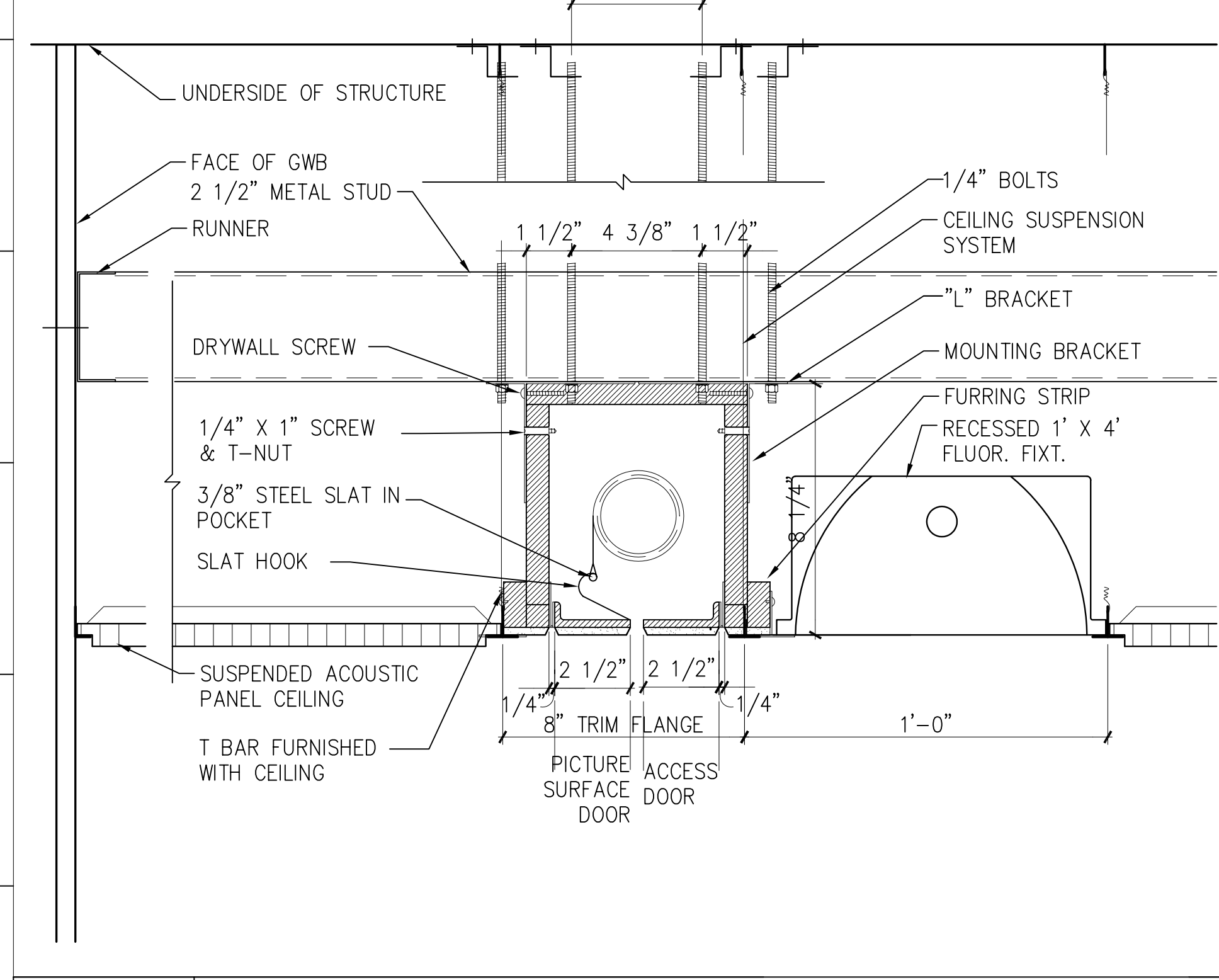
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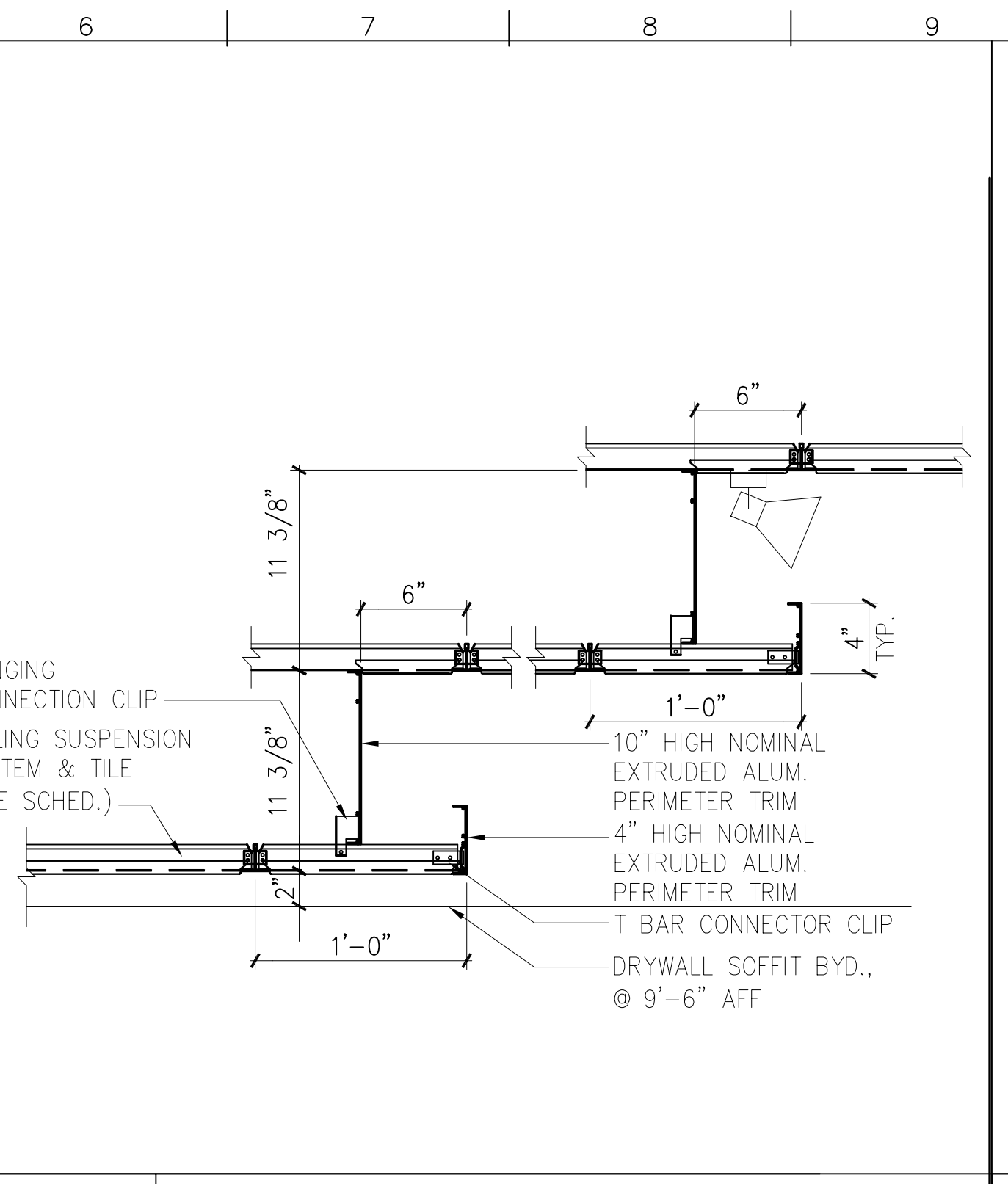
**L1** CLG. EQUIPMENT LOCATION DETAIL  
1/4" = 1'-0" A801, A802, A803, A804



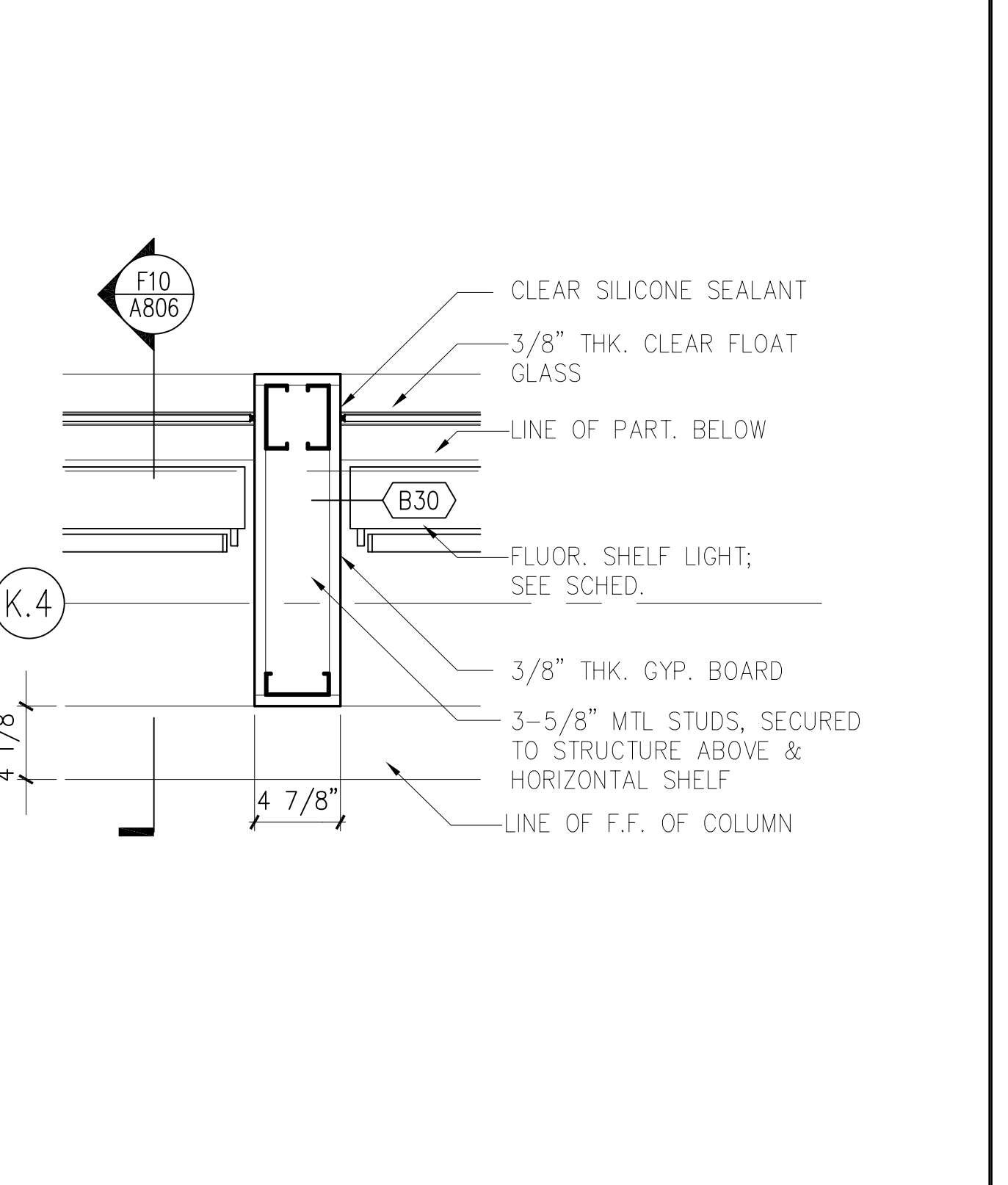
**F1** TYP. SCREEN DETAIL  
1/2" = 1'-0" A801, A802, A803, A804



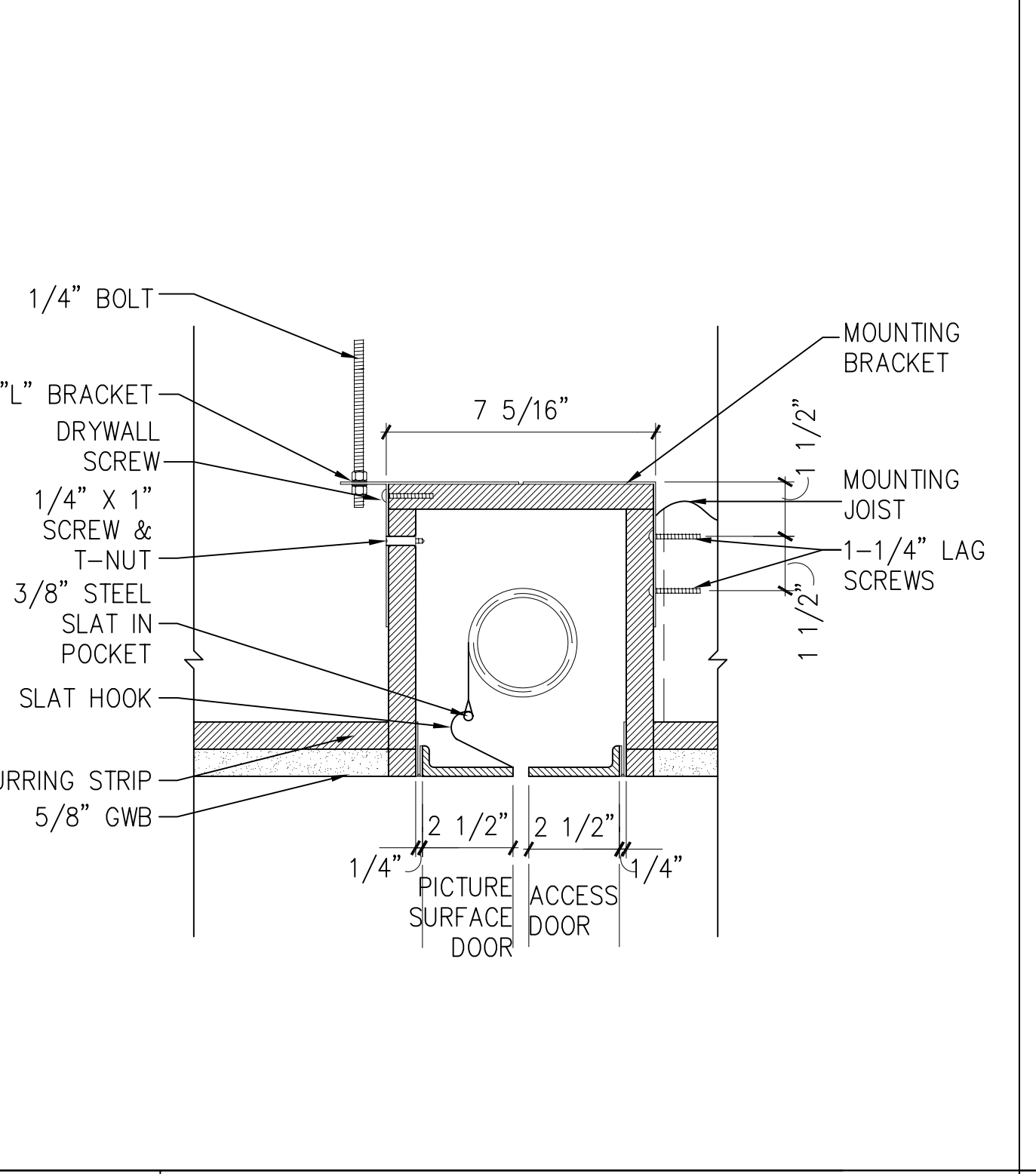
**A1** SCREEN MOUNT W/SUSPENDED CEILING  
3" = 1'-0" A801, A802, A803, A804



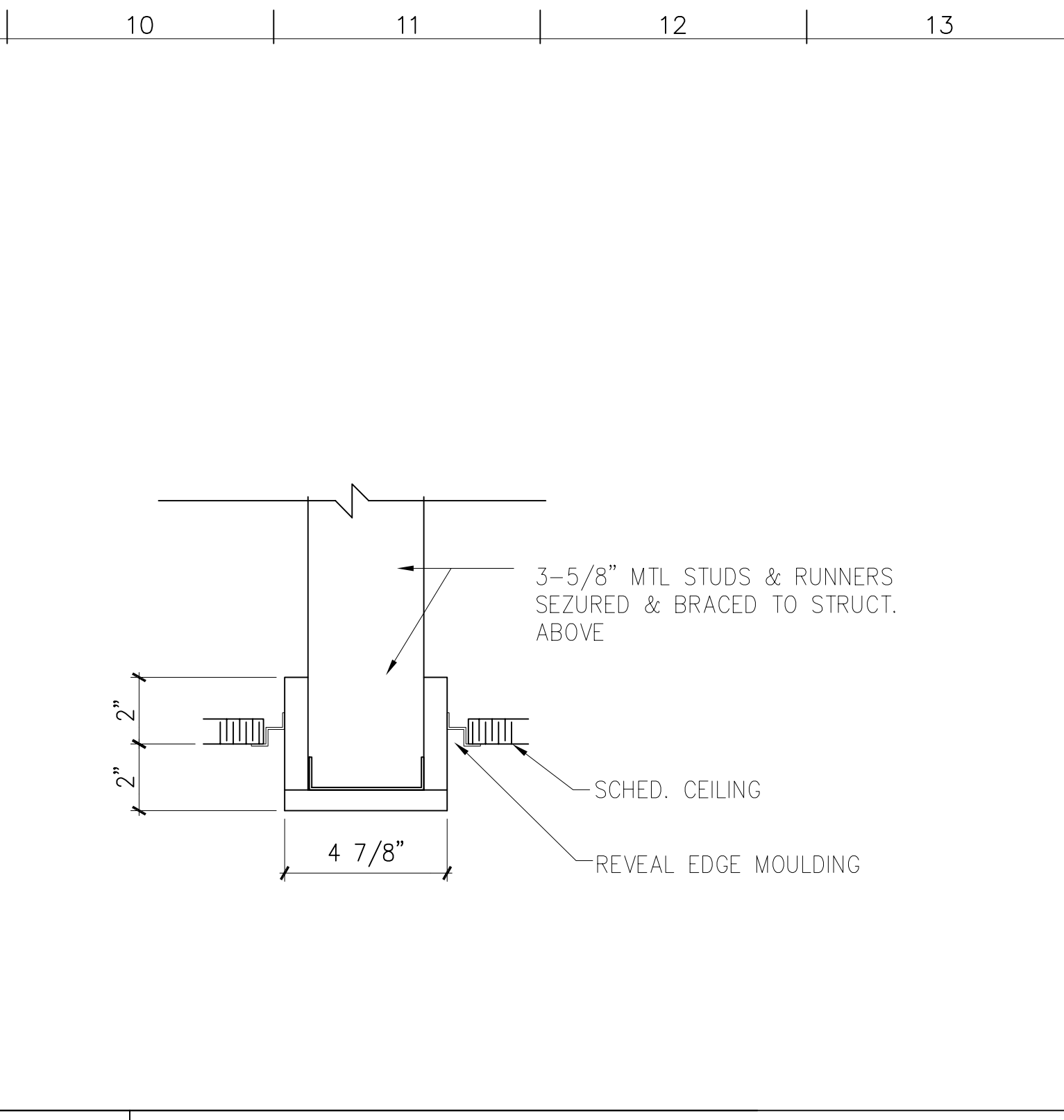
**M6** DETAIL AT LECTURE HALL  
1 1/2" = 1'-0"



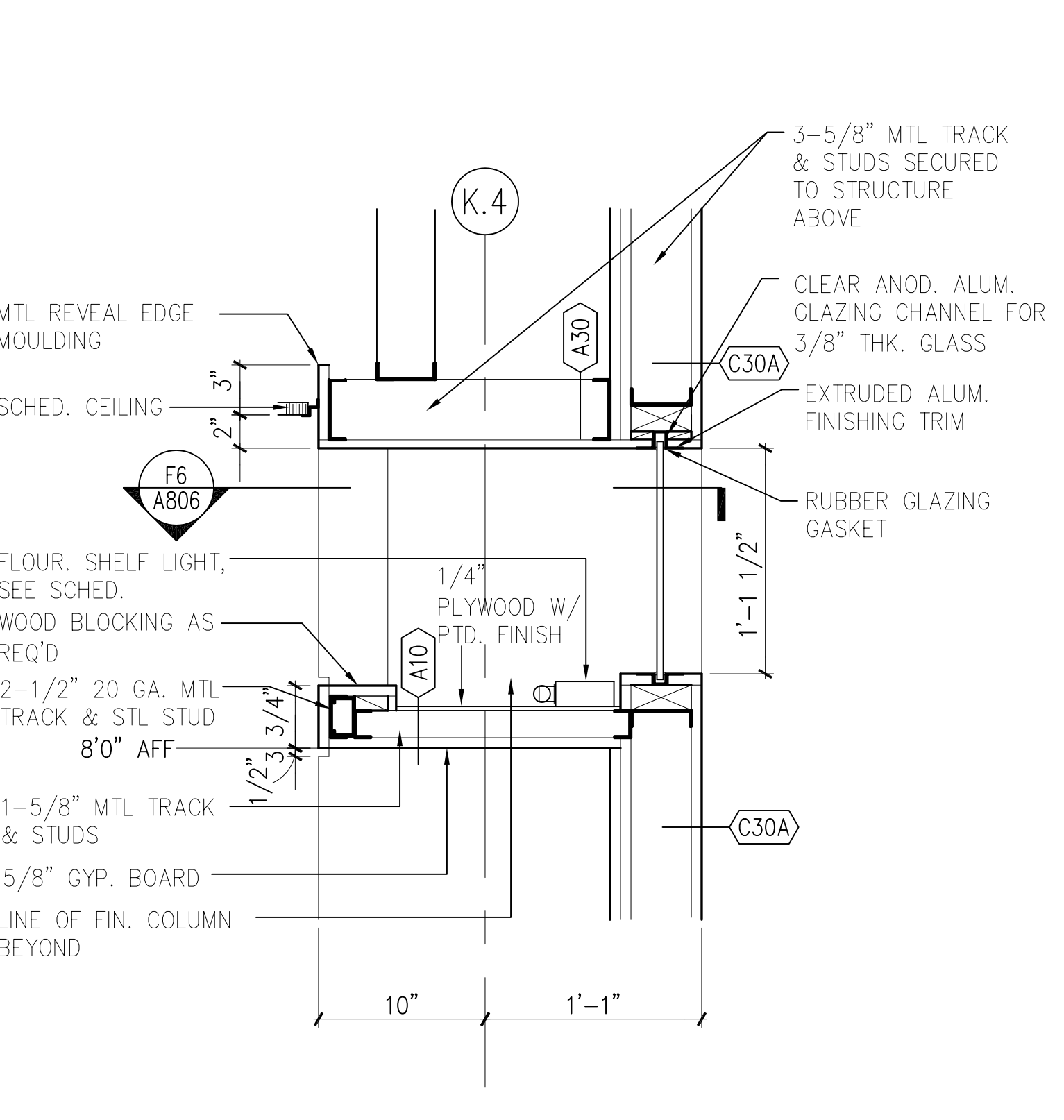
**F6** DETAIL AT CLERESTORY FIN  
1 1/2" = 1'-0"



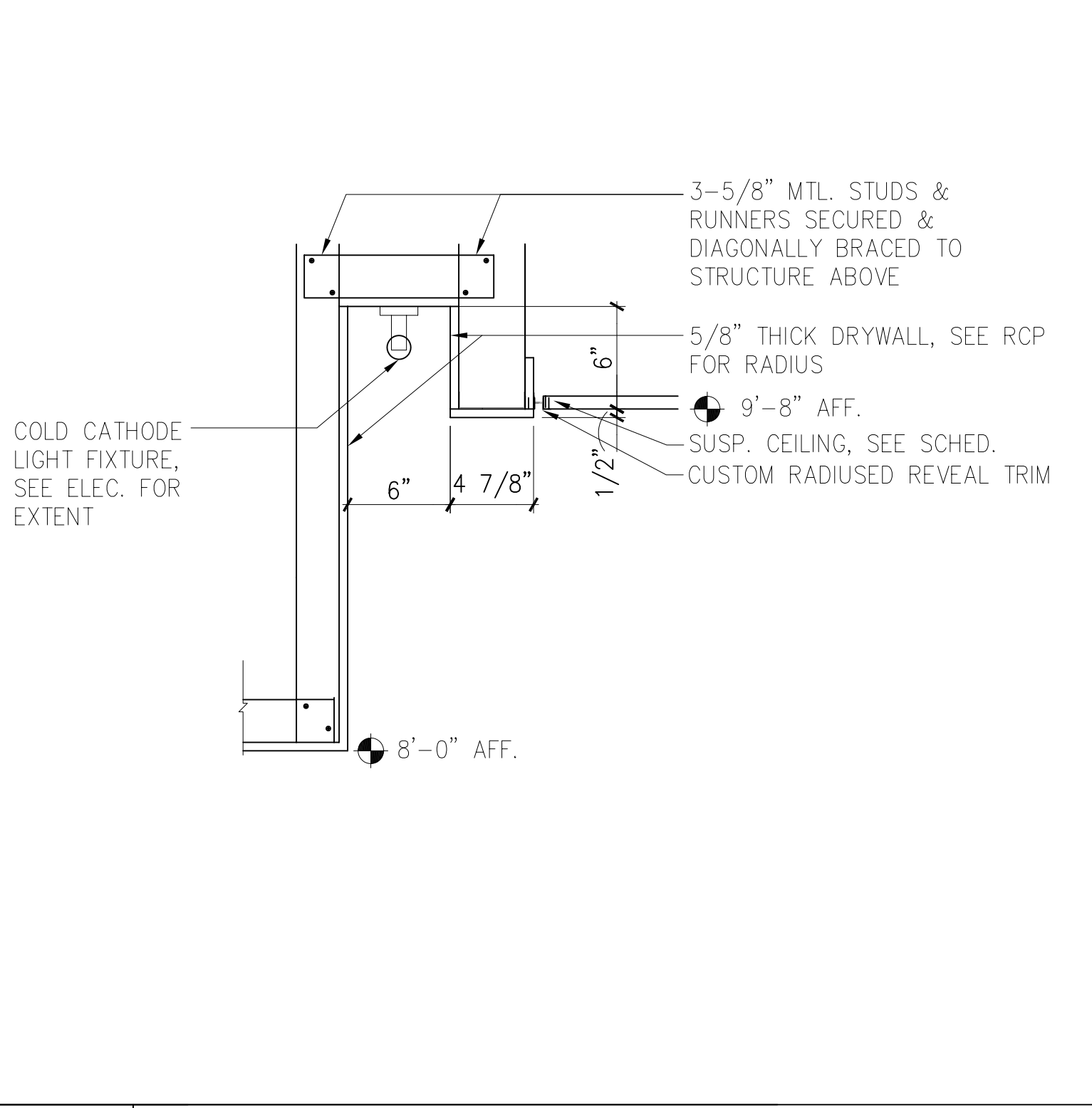
**A6** SCR.N. MOUNT W/GWB CEILING  
3" = 1'-0" A801, A802, A803, A804



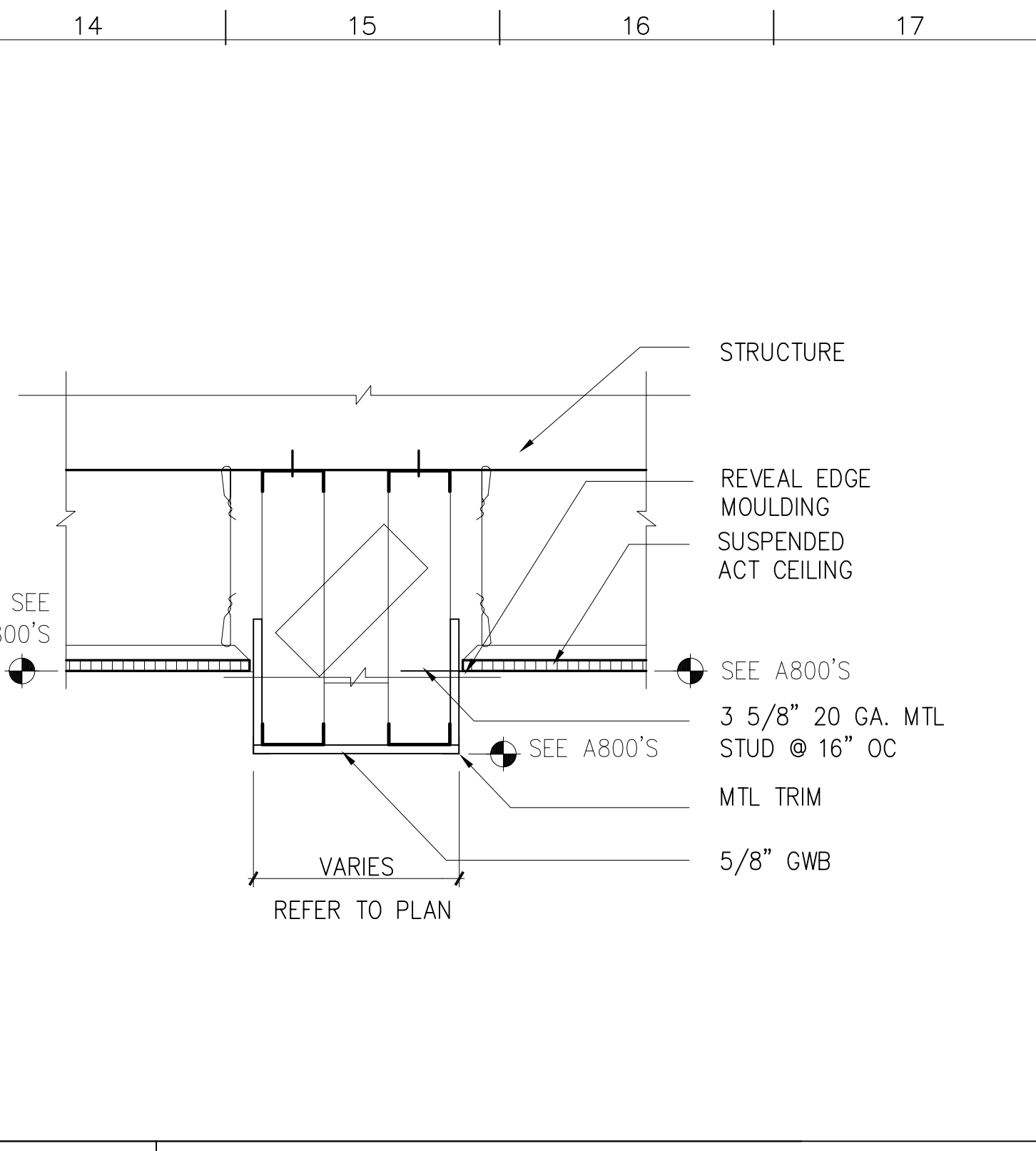
**M10** CEILING DETAIL AT CORRIDOR  
3" = 1'-0"



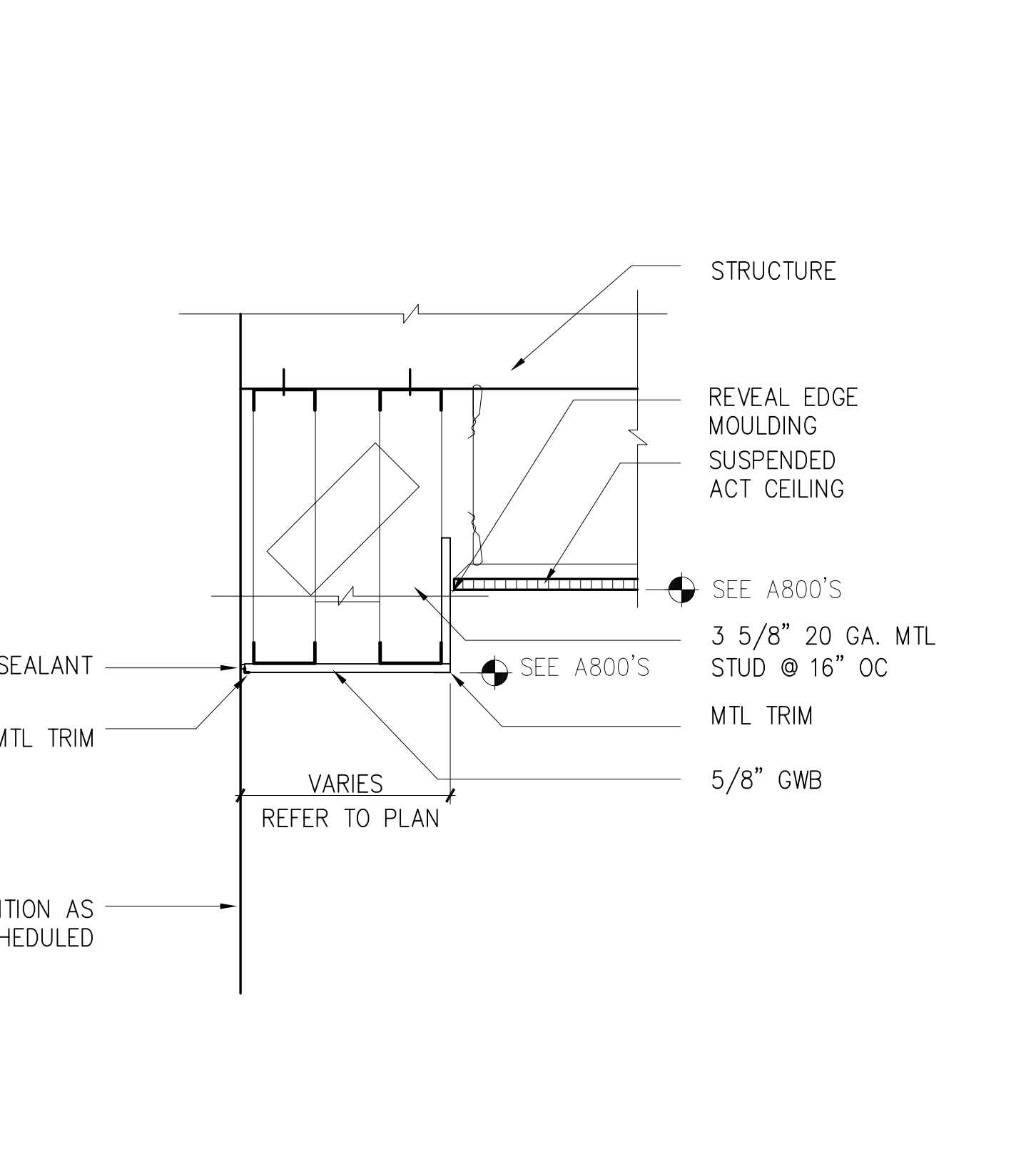
**F10** LIGHT SHELF DTL. AT CORRIDOR  
1 1/2" = 1'-0"



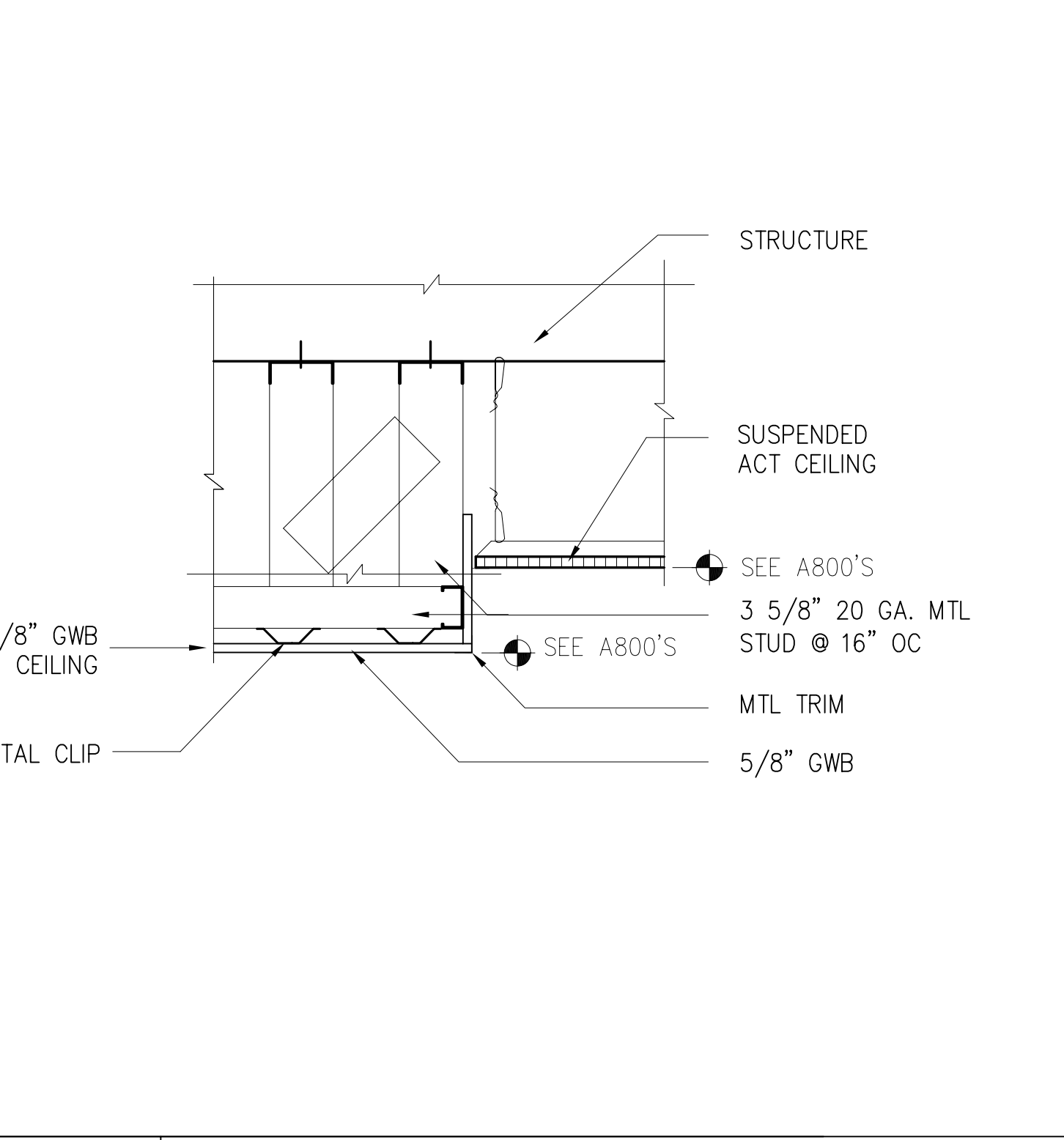
**A10** LIGHT COVE DTL., ALT NO. 2  
1 1/2" = 1'-0" A101, A102, A103, A104



**M14** TYPICAL SOFFIT DETAIL  
1 1/2" = 1'-0"



**F14** TYPICAL SOFFIT DETAIL  
1 1/2" = 1'-0"



**A14** TYP. CEILING DETAIL  
1 1/2" = 1'-0"

**MATERIAL KEYED NOTES**

- (3A) CONCRETE STRUCTURE
  - (3B) CONCRETE SLAB ON GRADE
  - (3C) CONCRETE SLAB ON METAL DECK
  - (3D) SLAB EDGE
  - (4A) FACE BRICK ON CMU, (COLOR 1)
  - (4B) FACE BRICK ON CMU, (COLOR 2)
  - (4B1) 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - (4C) ARCH. PRECAST CONCRETE, SEE NOTE 2
  - (4D) GLASS BLOCK
  - (4E) CONCRETE MASONRY UNIT
  - (4F) THROUGH WALL FLASHING
  - (4G) HORIZ JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
  - (4H) CAVITY WALL INSULATION (2" U.N.O.)
  - (5A) STRUCTURAL STEEL
  - (5B) METAL DECK
  - (5C) COLD FORMED METAL FRAMING
  - (5D) GALV. STEEL RELIEVING ANGLE/LINTEL
  - (5E) STEEL RAILING SYSTEM
  - (5F) ALUM. LADDER
  - (5G) PTD. ALUM MAST AND TRIM
  - (5H) STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  - (6A) WOOD BLOCKING (FIRE RETARDANT TREATED)
  - (6B) WOOD TRIM
  - (6C) ARCHITECTURAL WOODWORK
  - (7A) SPRAY-ON FIREPROOFING
  - (7B) BUILT-UP ROOFING SYSTEM
  - (7C) PERIMETER INSULATION (2")
  - (7D) INSULATED METAL PANEL
  - (7E) METAL FLASHING
  - (7F) 2 PIECE METAL RECEIVER & COUNTERFLASHING
  - (7G) FORMED ALUMINUM COPING
  - (7H) SELF-ADHERING SHEET WATERPROOFING SYSTEM
  - (8A) ALUMINUM WINDOW SYSTEM
  - (8B) ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
  - (8C) ALUMINUM CURTAIN WALL
  - (8D) HOLLOW METAL FRAME
  - (8E) HOLLOW METAL DOOR
  - (8F) WOOD DOOR
  - (8G) ROOF HATCH
  - (8H) TEMPERED GLASS (thickness)
  - (8I) INSULATING GLASS UNIT (Ref. to Schedule)
  - (9A) GYPSUM BOARD (5/8")
  - (9B) EXTRUDED ALUM REVEAL MOULDING (dim)
  - (9C) EXTERIOR GYPSUM SOFFIT
  - (9D) SUSPENDED ACOUSTIC PANEL CEILING
  - (9E) METAL STUDS
  - (9F) WALL GUARDS (TYPE)
  - (9G) CERAMIC TILE
  - (9H) VINYL COMPOSITION TILE
  - (9I) SHEET VINYL FLOORING
  - (9J) RESILIENT BASE
  - (9K) PAINT (Color-Ref. to Schedule)
  - (9M) EPOXY PAINT (Color-Ref. to Schedule)
  - (10A) VISUAL DISPLAY BOARD
  - (10B) TOILET COMPARTMENTS
  - (10C) ALUMINUM LOUVER
  - (10D) CUBICLE CURTAIN & TRACK
  - (10E) METAL LOCKER
  - (10F) FIRE EXTINGUISHER AND CABINET
  - (10G) OPERABLE PARTITION
  - (10H) TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  - (11A) RECESSED, MOTORIZED PROJECTION SCREEN
  - (11B) MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  - (12A) RECESSED ENTRANCE MAT AND FRAME
  - (12B) WINDOW TREATMENT - BLINDS
  - (12C) WINDOW TREATMENT - SUN SHADING
  - (14A) HYDRAULIC ELEVATOR
  - (15A) HVAC DUCTWORK - REF. TO MECH. DWGS.
  - (16A) LIGHTING FIXTURE - REF. TO ELEC. DWGS.
- ☼ REFER TO A406 FOR SPECIAL BRICK TYPES

no.	revisions/submissions	date

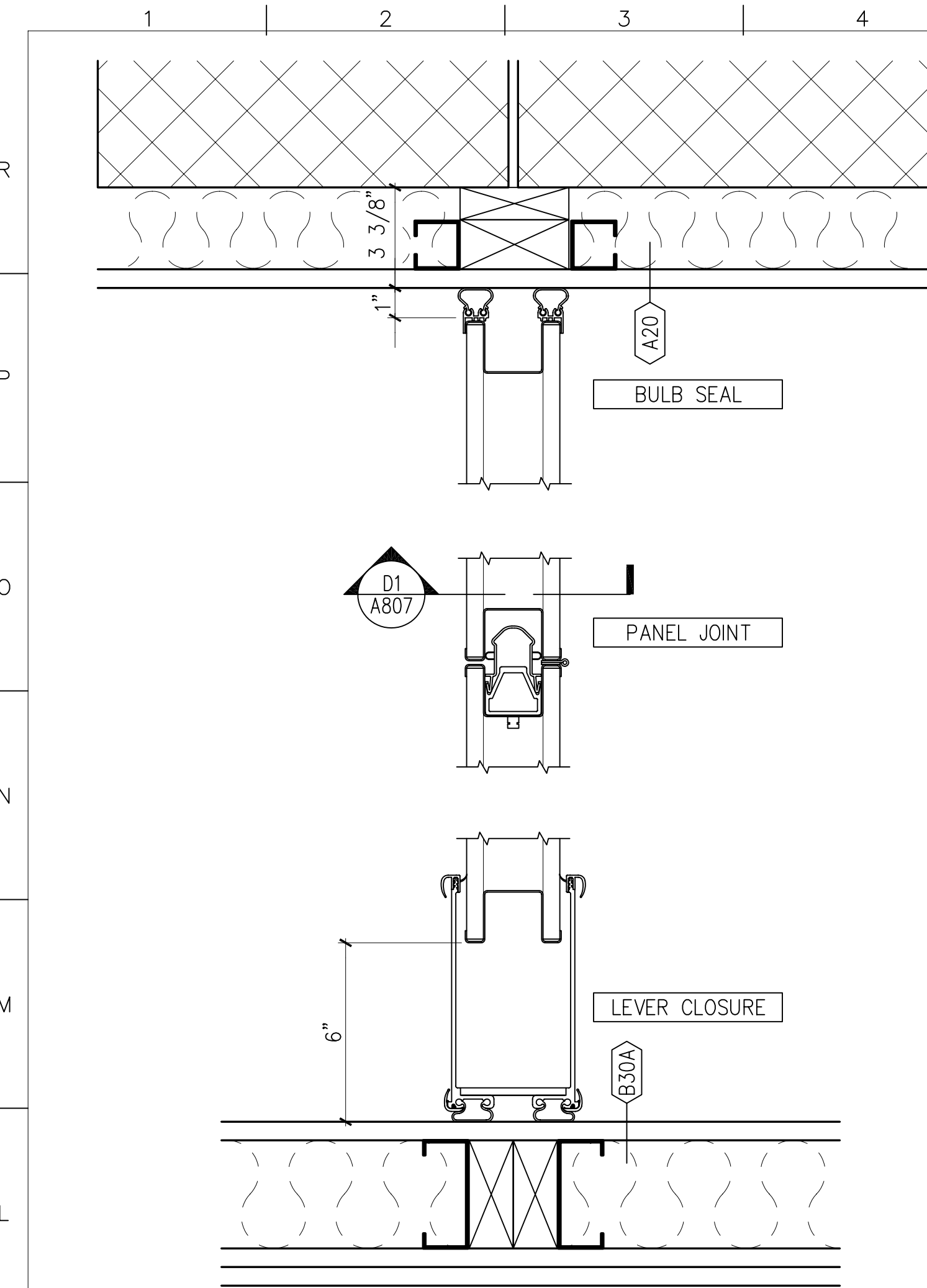
PROJECT NO. 34499.07  
 DATE: 6/20/02  
**A806**  
 SHEET # OF 33

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

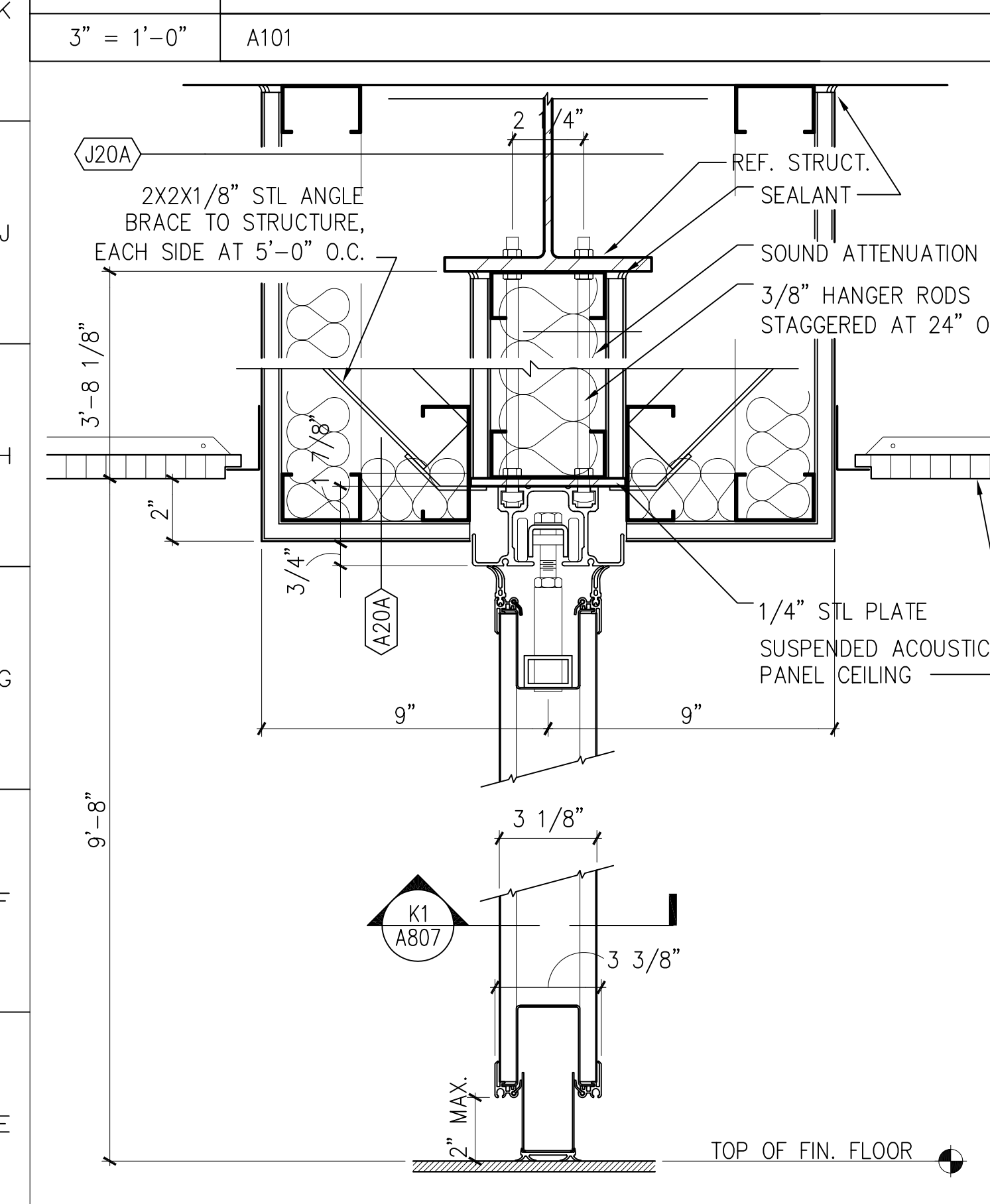
CEILING DETAILS  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE

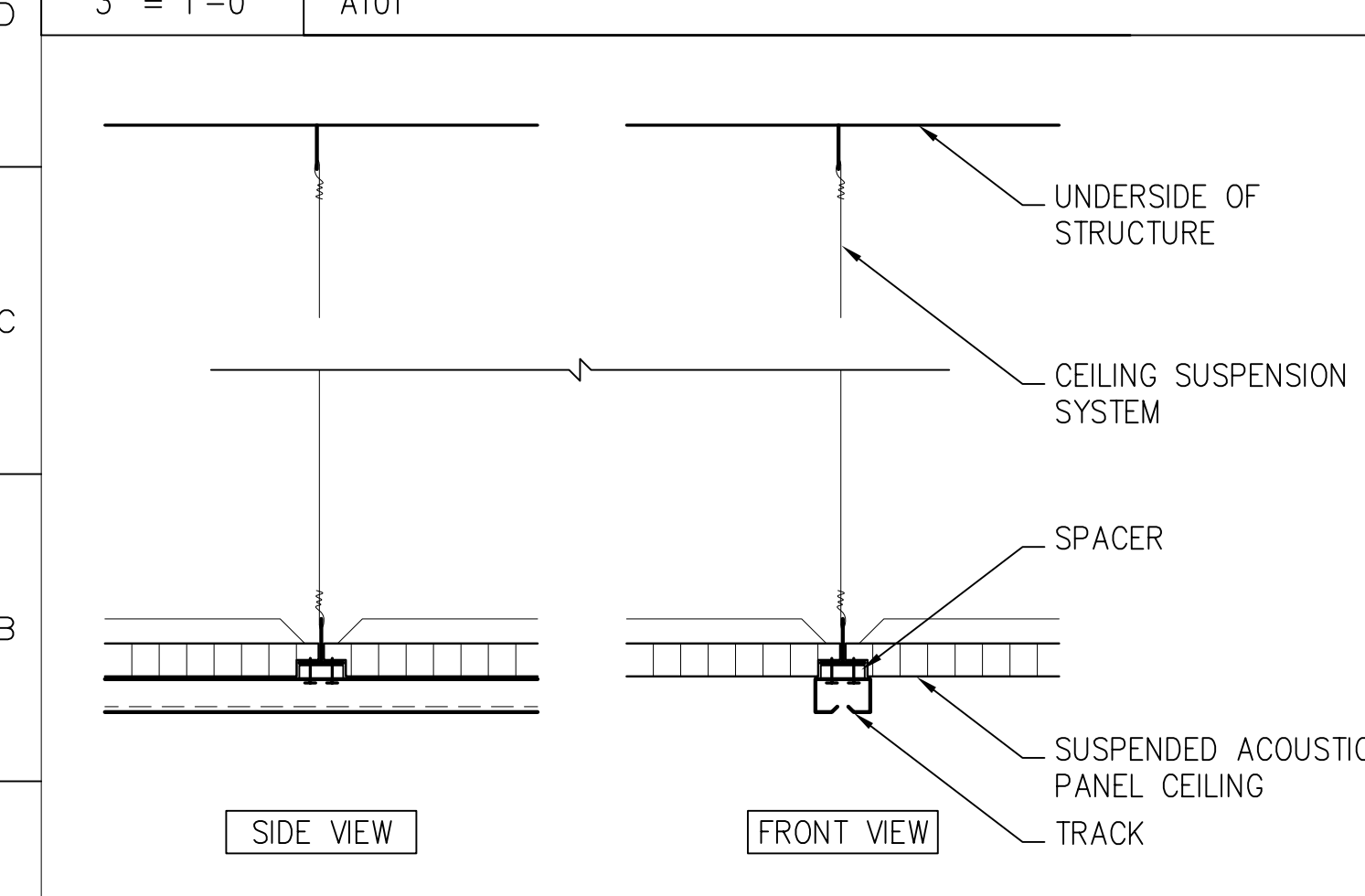
MONTGOMERY COLLEGE  
 APPROVAL  
 DATE



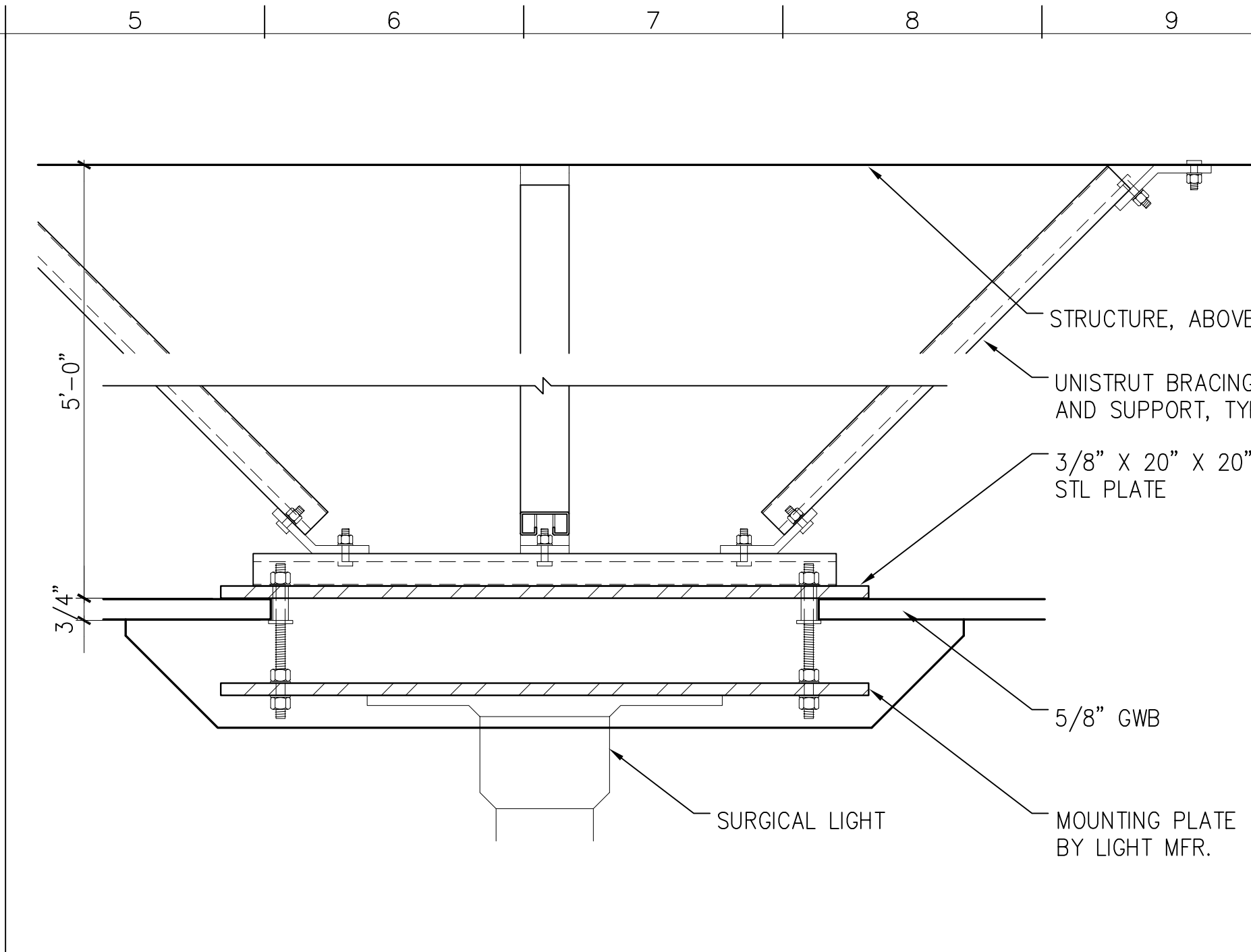
K1 PARTITION HORIZONTAL DETAIL  
3" = 1'-0" A101



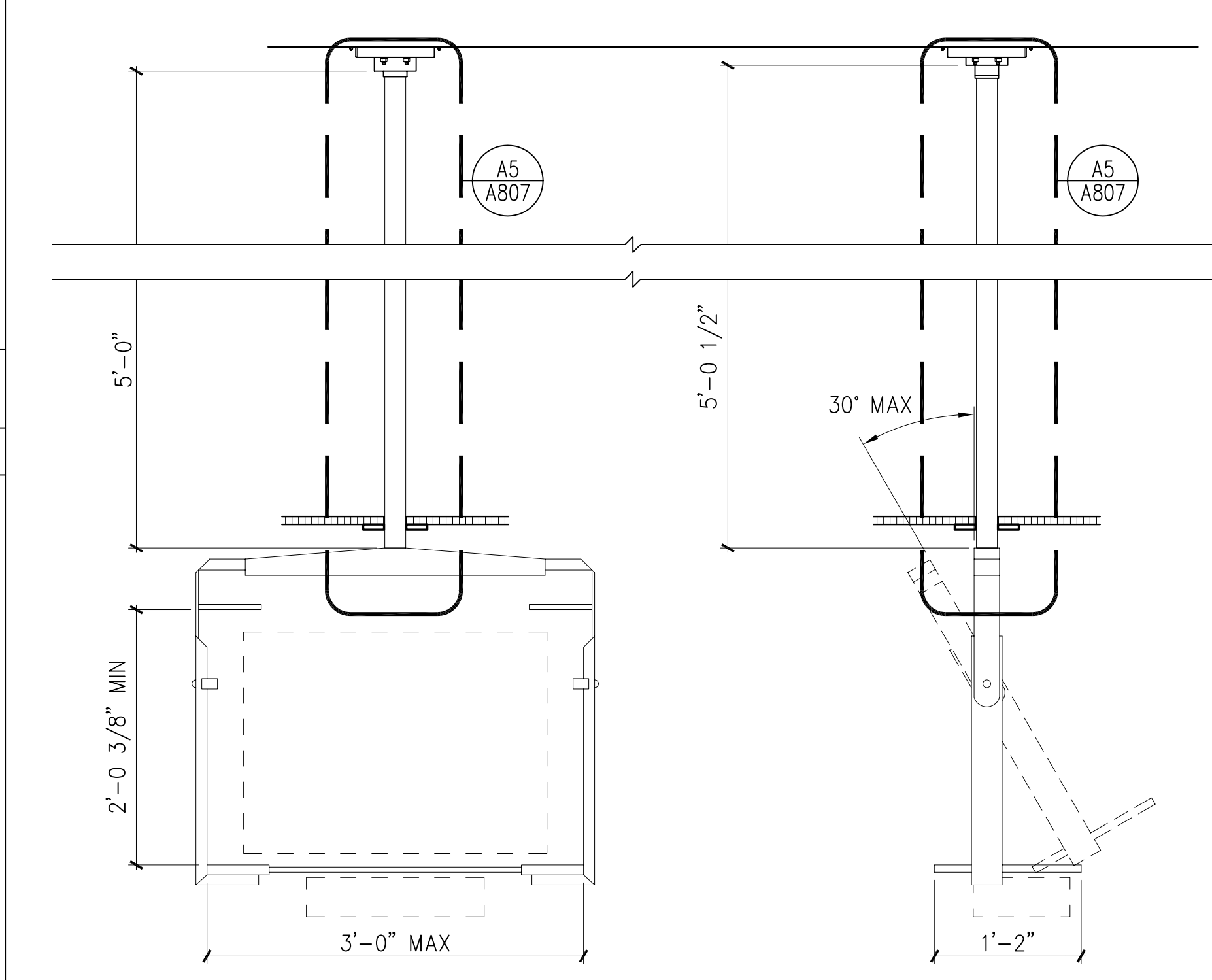
D1 OPERABLE PARTITION TRACK  
3" = 1'-0" A101



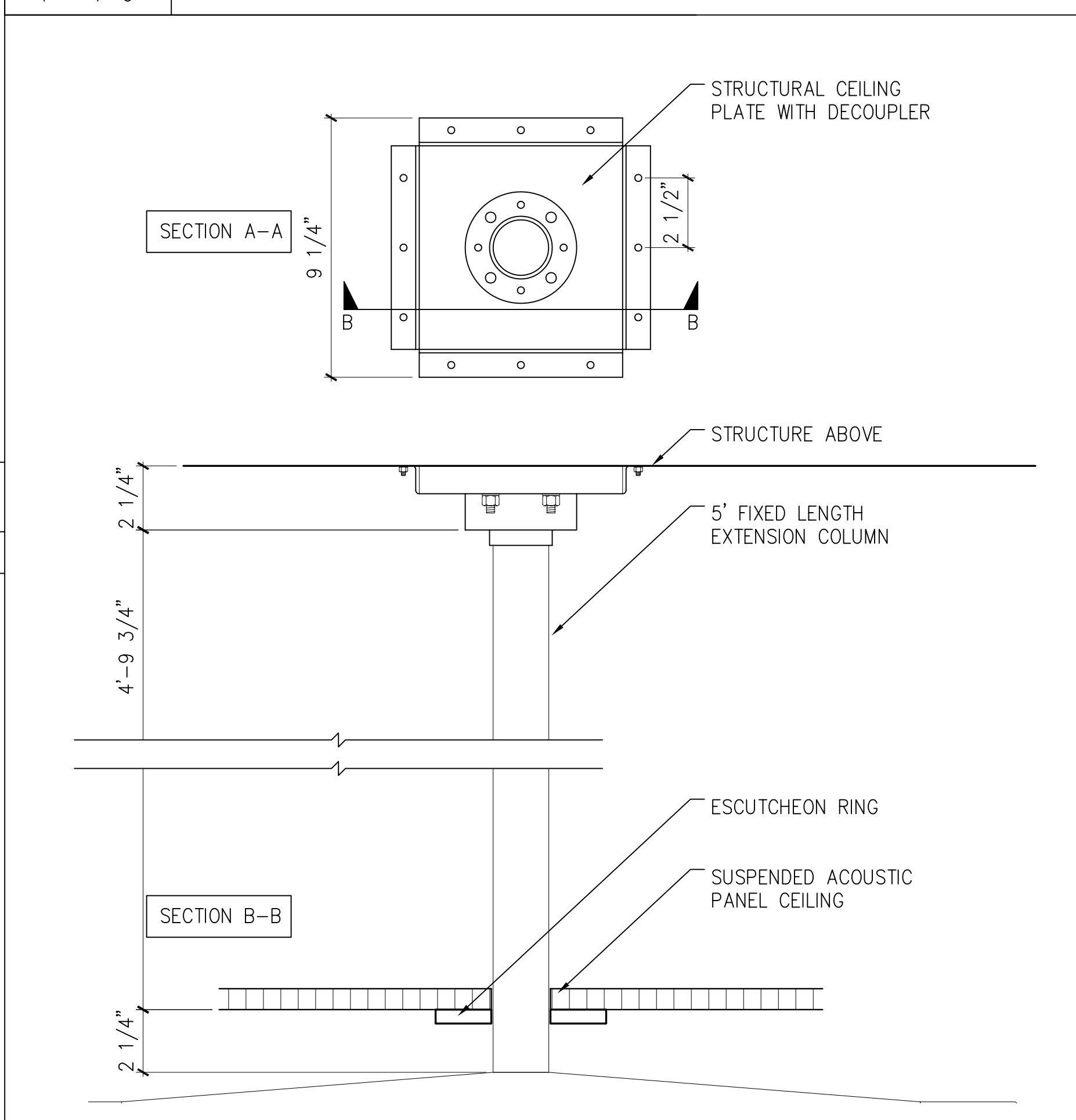
A1 CUBICLE CURTAIN TRACK  
3" = 1'-0"



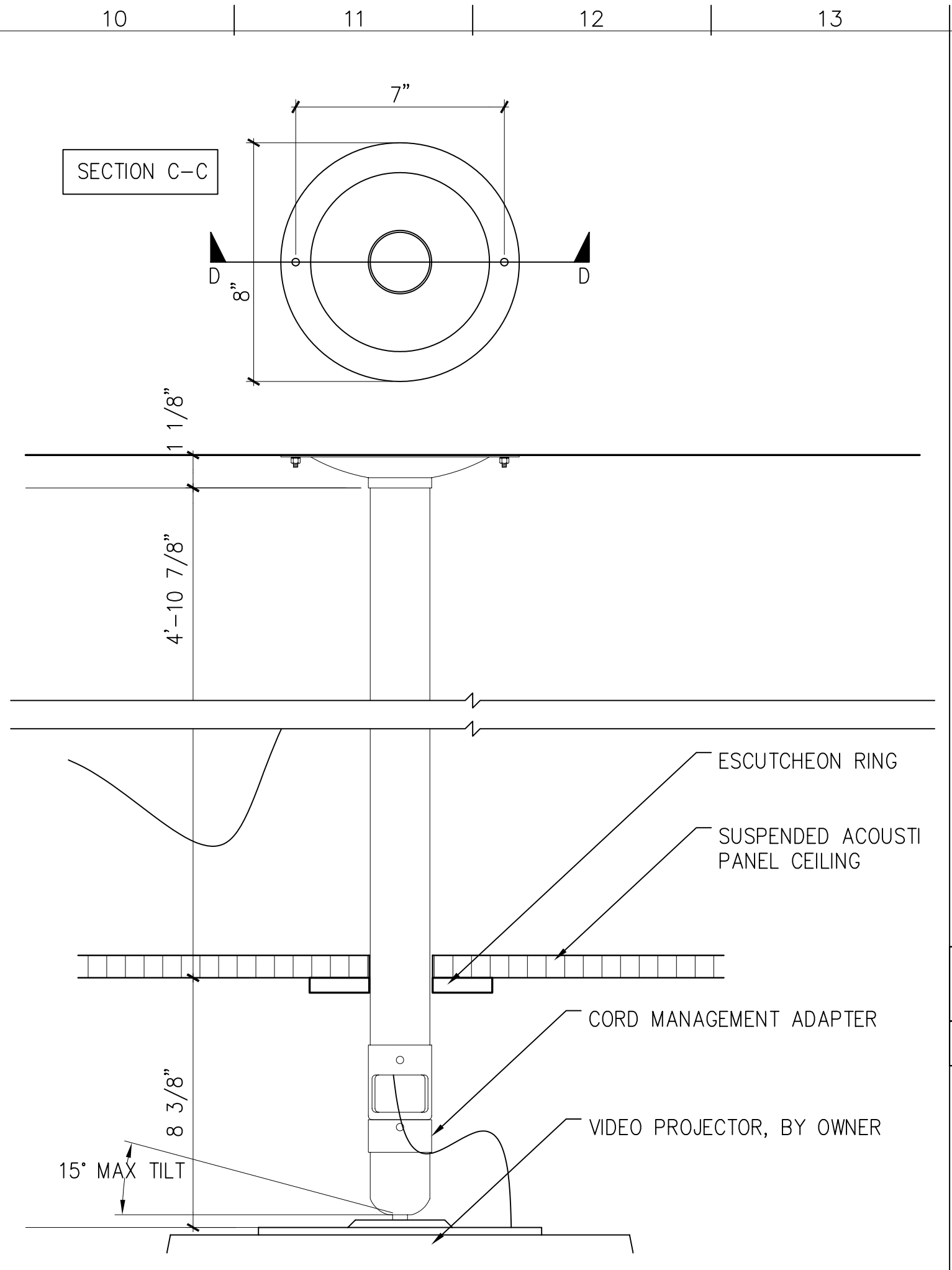
M5 SURGICAL LIGHT MOUNTING DETAIL  
3" = 1'-0" A806



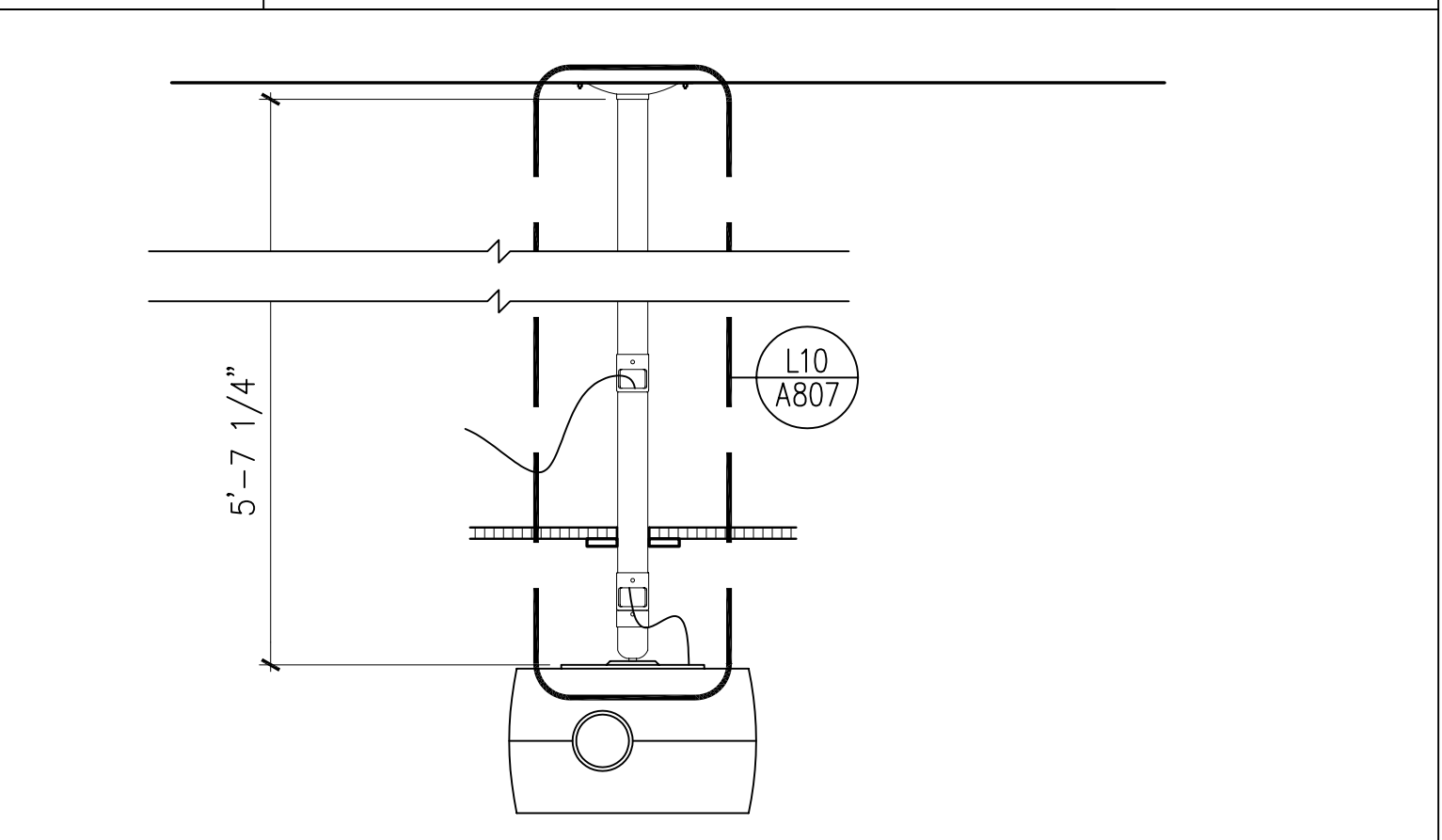
G5 MONITOR MOUNTING DETAIL  
1" = 1'-0"



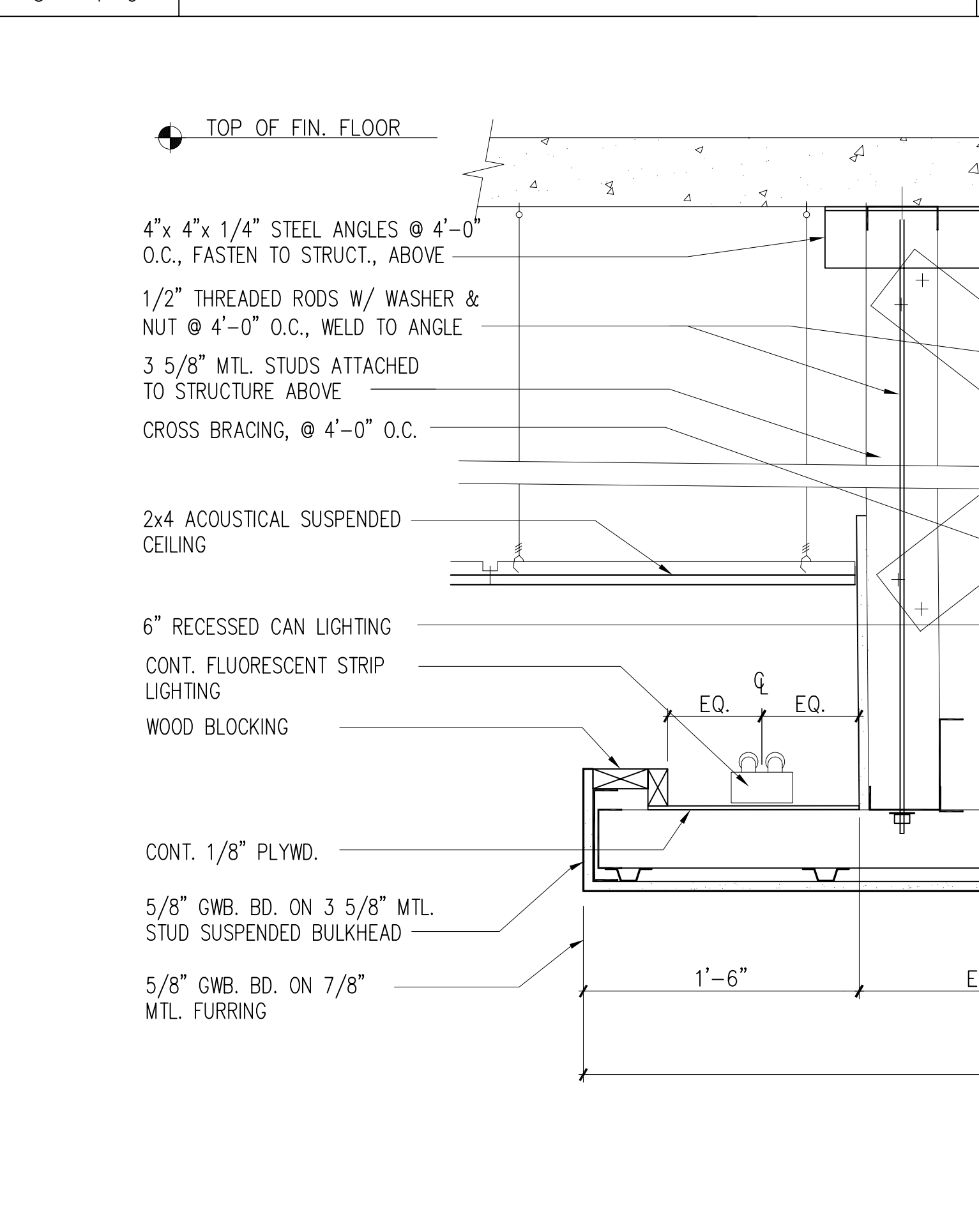
A5 MONITOR MOUNTING DETAIL  
3" = 1'-0" G5/A807



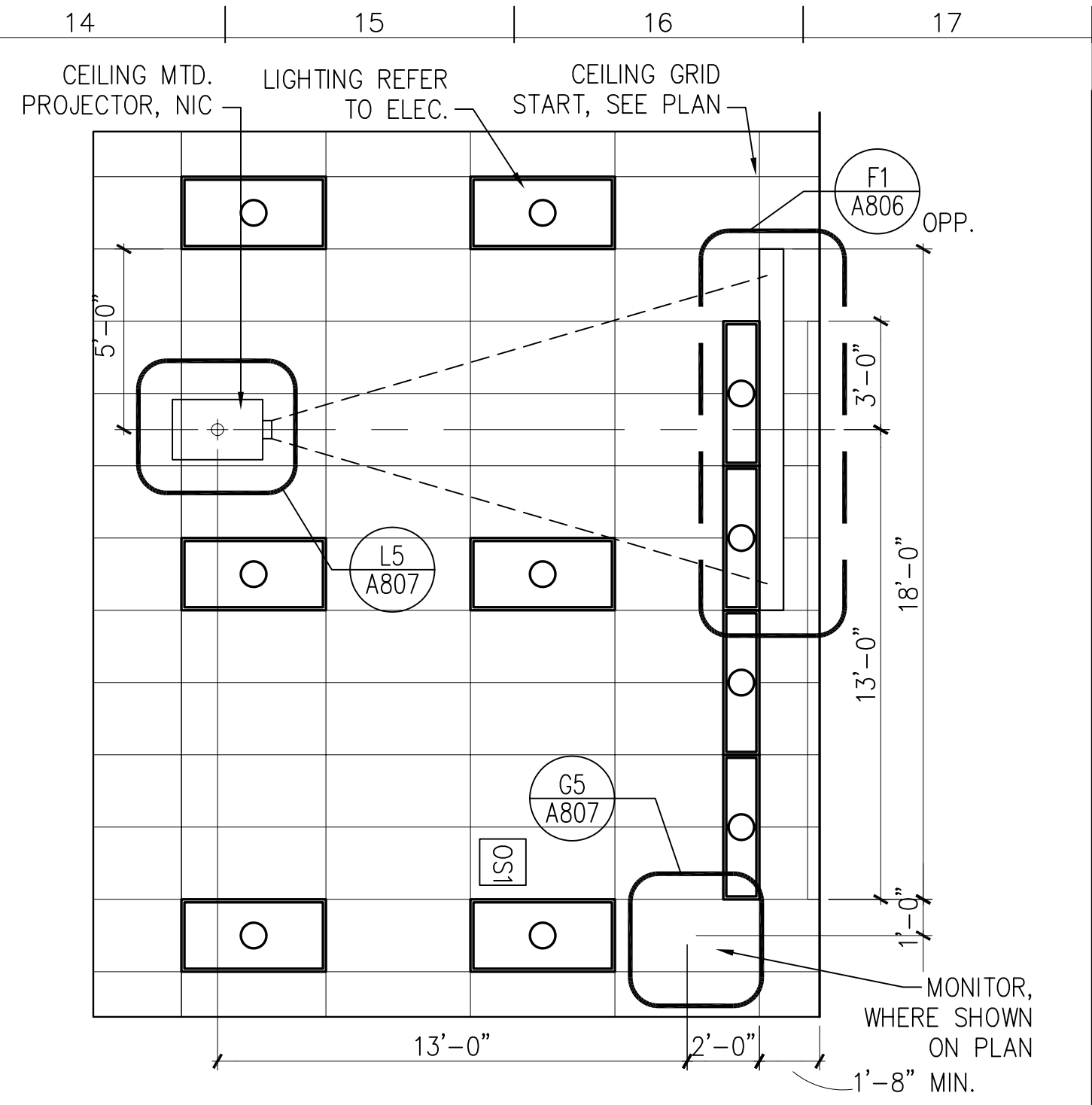
L10 VIDEO PRJ. MOUNT DTL  
3" = 1'-0" G10/A807



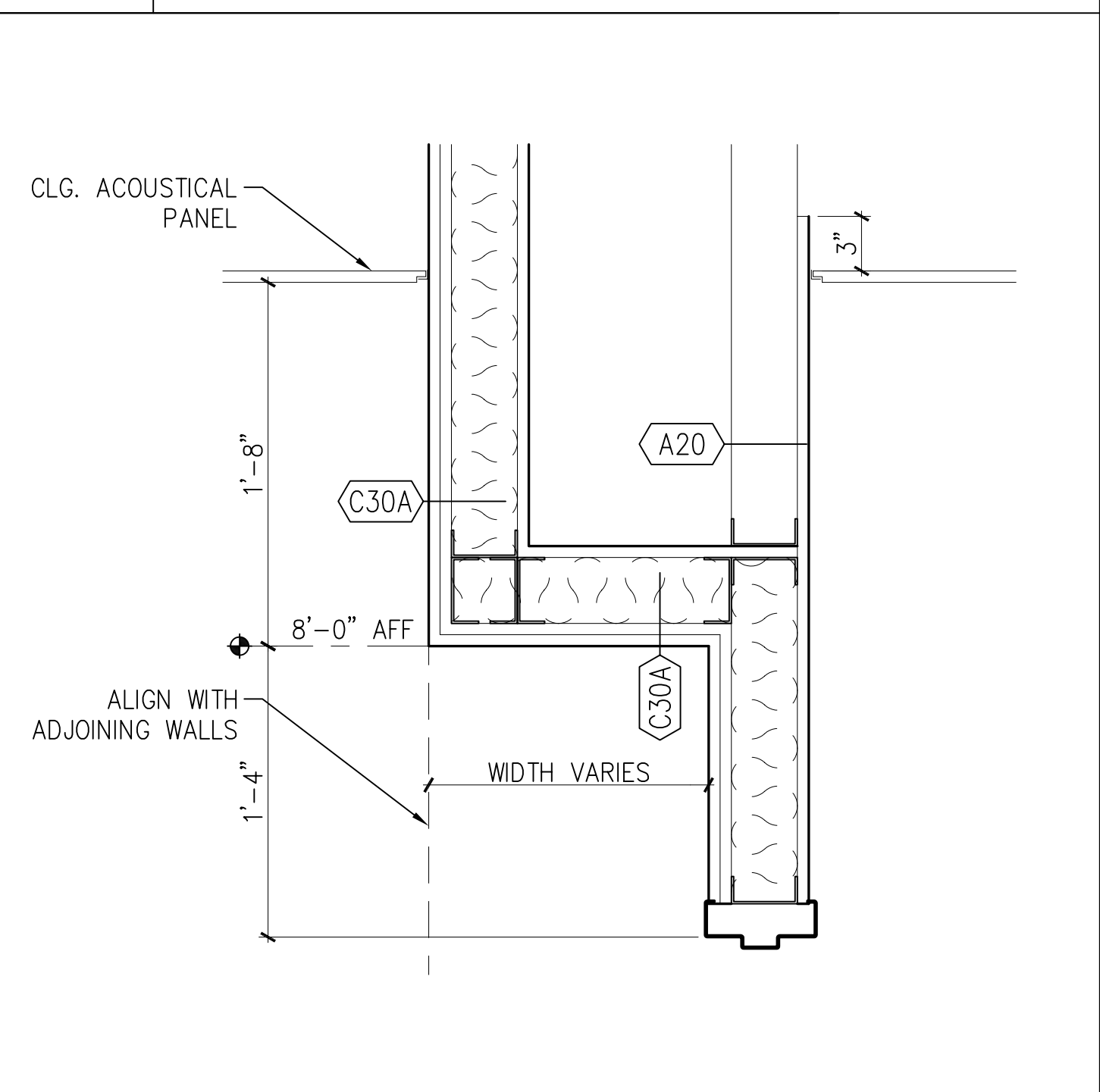
G10 VIDEO PRJ. MOUNT DTL  
3" = 1'-0"



A10 SUSPENDED BULKHEAD DETAIL  
3" = 1'-0"



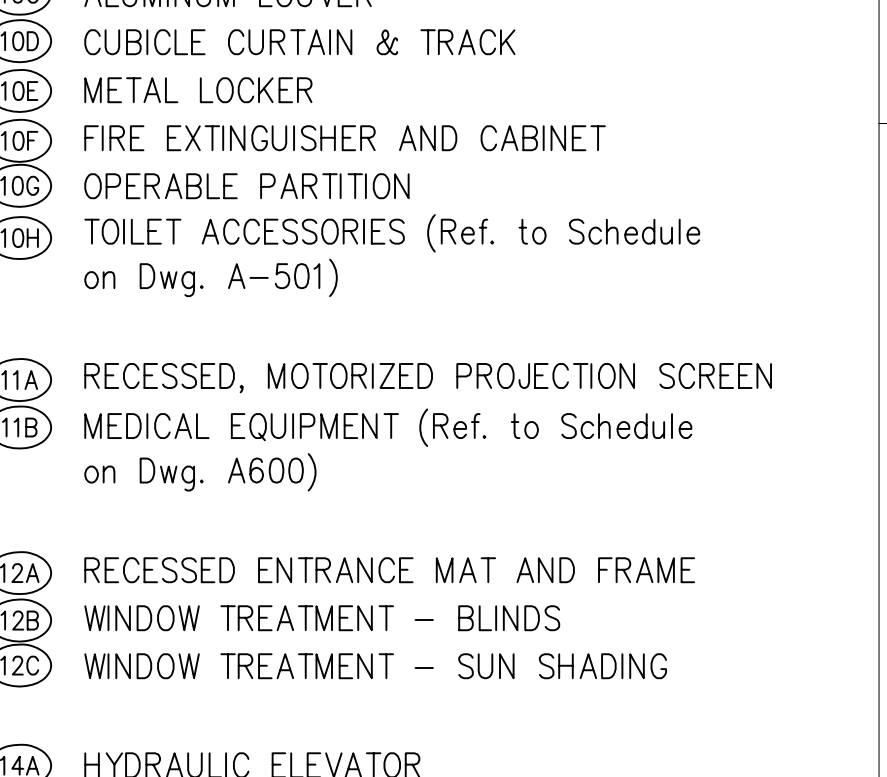
M14 TYPICAL EQUIP. LOCATIONS  
1/4" = 1'-0" A801, A802, A803, A804



G14 SOFFIT OVER DOORS  
1 1/2" = 1'-0" A702

- ### MATERIAL KEYED NOTES
- 3A CONCRETE STRUCTURE
  - 3B CONCRETE SLAB ON GRADE
  - 3C CONCRETE SLAB ON METAL DECK
  - 3D SLAB EDGE
  
  - 4A FACE BRICK ON CMU, (COLOR 1)
  - 4B FACE BRICK ON CMU, (COLOR 2)
  - 4B1 8" X 8" FACE BRICK ON CMU, (COLOR 2)
  - 4C ARCH. PRECAST CONCRETE, SEE NOTE 2
  - 4D GLASS BLOCK
  - 4E CONCRETE MASONRY UNIT
  
  - 4F THROUGH WALL FLASHING
  - 4G HORIZ. JT REINF. & ADJ. MAS. ANCHOR (@ 16" O. C., U.N.O.)
  - 4H CAVITY WALL INSULATION (2" U.N.O.)
  
  - 5A STRUCTURAL STEEL
  - 5B METAL DECK
  - 5C COLD FORMED METAL FRAMING
  - 5D GALV. STEEL RELIEVING ANGLE/LINTEL
  - 5E STEEL RAILING SYSTEM
  - 5F ALUM. LADDER
  - 5G PTD. ALUM. MAST AND TRIM
  - 5H STEEL SUNSCREEN ASSEMBLY W/ HIGH PERFORMANCE ORGANIC COATING
  
  - 6A WOOD BLOCKING (FIRE RETARDANT TREATED)
  - 6B WOOD TRIM
  - 6C ARCHITECTURAL WOODWORK
  
  - 7A SPRAY-ON FIREPROOFING
  - 7B BUILT-UP ROOFING SYSTEM
  - 7C PERIMETER INSULATION (2")
  - 7D INSULATED METAL PANEL
  - 7E METAL FLASHING
  - 7F 2 PCE METAL RECEIVER & COUNTERFLASHING
  - 7G FORMED ALUMINUM COPING
  - 7H SELF-ADHERING SHEET WATERPROOFING SYSTEM

- 8A ALUMINUM WINDOW SYSTEM
- 8B ALUMINUM ENTRANCE AND STOREFRONT SYSTEM
- 8C ALUMINUM CURTAIN WALL
- 8D HOLLOW METAL FRAME
- 8E HOLLOW METAL DOOR
- 8F WOOD DOOR
- 8G ROOF HATCH
- 8H TEMPERED GLASS (thickness)
- 8I INSULATING GLASS UNIT (Ref. to Schedule)
  
- 9A GYPSUM BOARD (5/8")
- 9B EXTRUDED ALUM. REVEAL MOULDING (dim)
- 9C EXTERIOR GYPSUM SOFFIT
- 9D SUSPENDED ACOUSTIC PANEL CEILING
- 9E METAL STUDS
- 9F WALL GUARDS (TYPE)
- 9G CERAMIC TILE
- 9H VINYL COMPOSITION TILE
- 9I SHEET VINYL FLOORING
- 9J RESILIENT BASE
- 9K PAINT (Color-Ref. to Schedule)
- 9M EPOXY PAINT (Color-Ref. to Schedule)
  
- 10A VISUAL DISPLAY BOARD
- 10B TOILET COMPARTMENTS
- 10C ALUMINUM LOUVER
- 10D CUBICLE CURTAIN & TRACK
- 10E METAL LOCKER
- 10F FIRE EXTINGUISHER AND CABINET
- 10G OPERABLE PARTITION
- 10H TOILET ACCESSORIES (Ref. to Schedule on Dwg. A-501)
  
- 11A RECESSED, MOTORIZED PROJECTION SCREEN
- 11B MEDICAL EQUIPMENT (Ref. to Schedule on Dwg. A600)
  
- 12A RECESSED ENTRANCE MAT AND FRAME
- 12B WINDOW TREATMENT - BLINDS
- 12C WINDOW TREATMENT - SUN SHADING
  
- 14A HYDRAULIC ELEVATOR
- 15A HVAC DUCTWORK - REF. TO MECH. DWGS.
- 16A LIGHTING FIXTURE - REF. TO ELECT. DWGS.



DOOR SCHEDULE

Table with columns: Omg No, Ext, Room Name, Door, Frame, Details, Fire, Sill, Seds, Hdw, Notes. Includes sections for BASEMENT, FIRST FLOOR, and SECOND FLOOR (CONT.).

SECOND FLOOR (CONT.)

Table with columns: Omg No, Ext, Room Name, Door, Frame, Details, Fire, Sill, Seds, Hdw, Notes. Continuation of the door schedule for the second floor.

THIRD FLOOR

Table with columns: Omg No, Ext, Room Name, Door, Frame, Details, Fire, Sill, Seds, Hdw, Notes. Continuation of the door schedule for the third floor.

FOURTH FLOOR

Table with columns: Omg No, Ext, Room Name, Door, Frame, Details, Fire, Sill, Seds, Hdw, Notes. Continuation of the door schedule for the fourth floor.

PENTHOUSE

Table with columns: Omg No, Ext, Room Name, Door, Frame, Details, Fire, Sill, Seds, Hdw, Notes. Continuation of the door schedule for the penthouse.

GENERAL NOTES

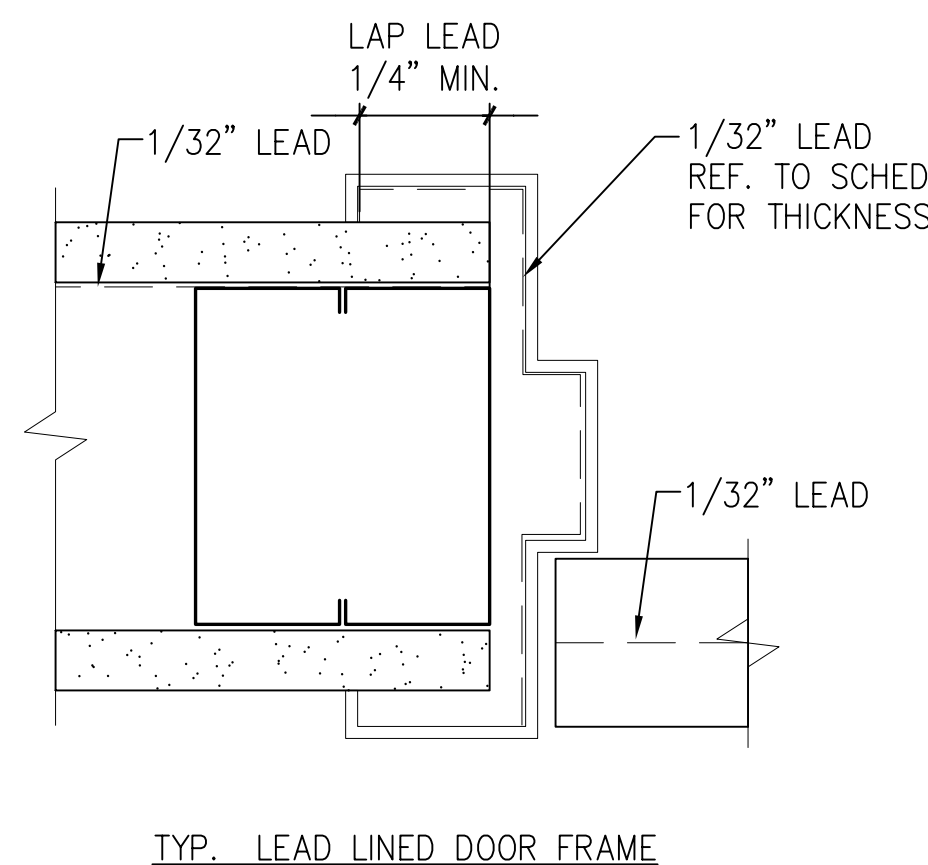
- 1. IN DOOR SCHEDULE, DOOR QUANTITY IS 1, U.N.O.
DOOR MATERIAL:
ST-STEEL
AL-ALUMINUM
WD-WOOD
2. STEEL DOOR CONSTRUCTION (REFER TO SPEC)
2-LEVEL 2
3-LEVEL 3
4-LEVEL 4
3. STUD DOORS ARE LEVEL 2, U.N.O.
4. FOR FRAME MATERIALS
ST-STEEL
AL-ALUM
5. FOR FRAME TYPES (REFER TO DTL A6/A900)

N1 OPEN

NO SCALE

N3 OPEN

NO SCALE

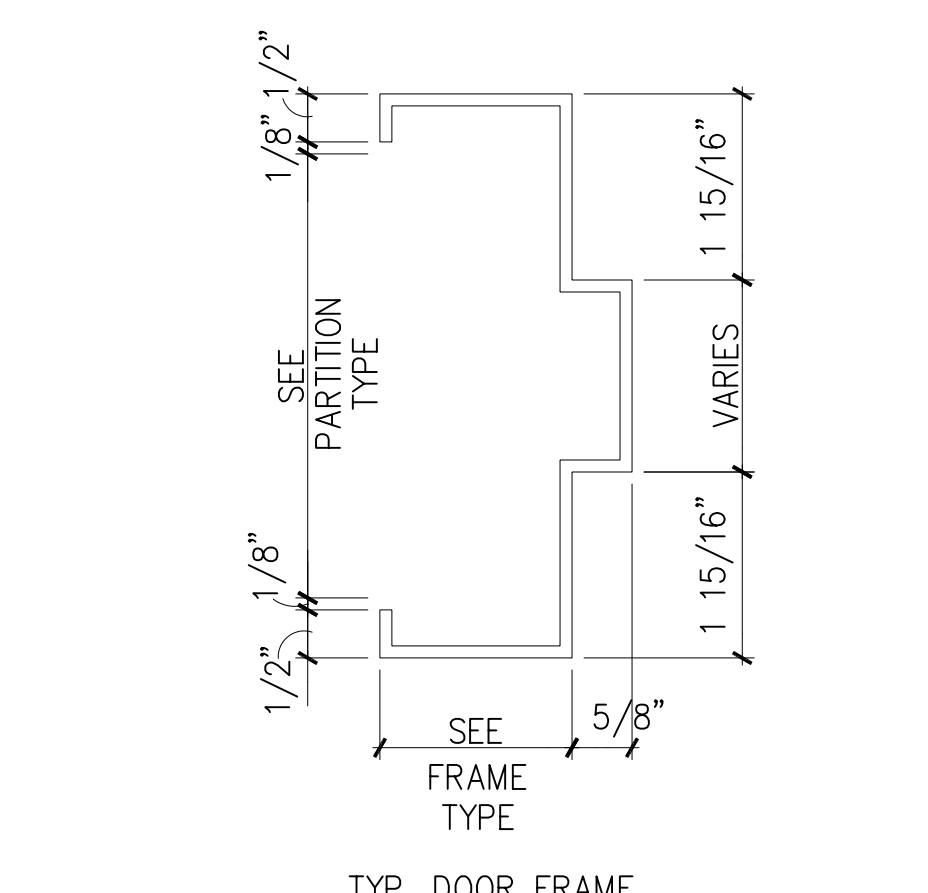


J1 OPEN

NO SCALE

J3 FRAME DETAIL

3\"/>

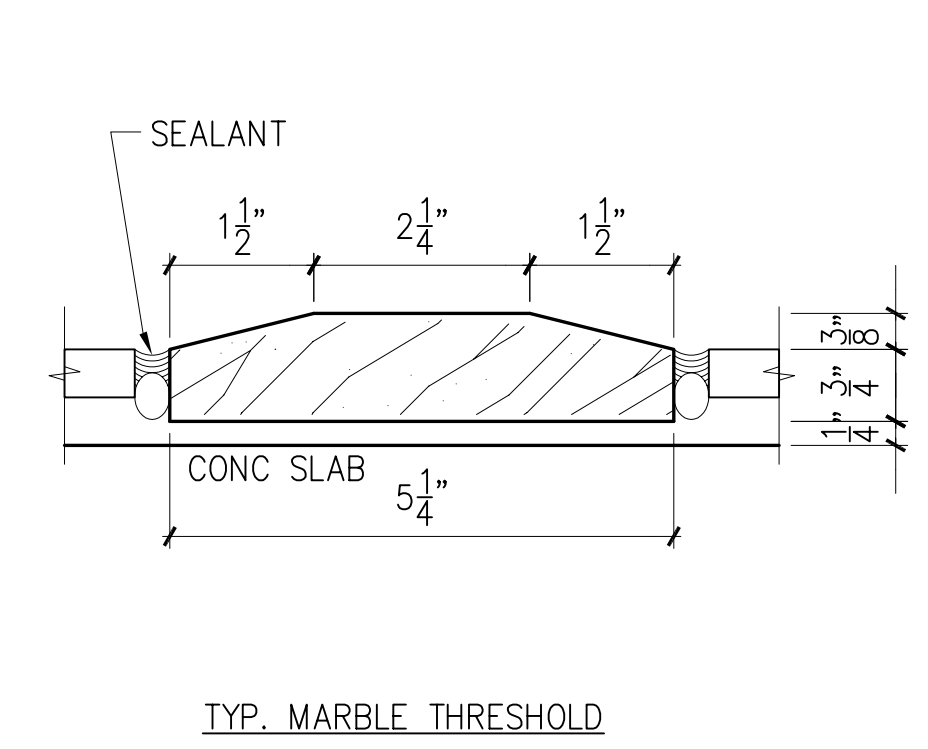


E1 OPEN

NO SCALE

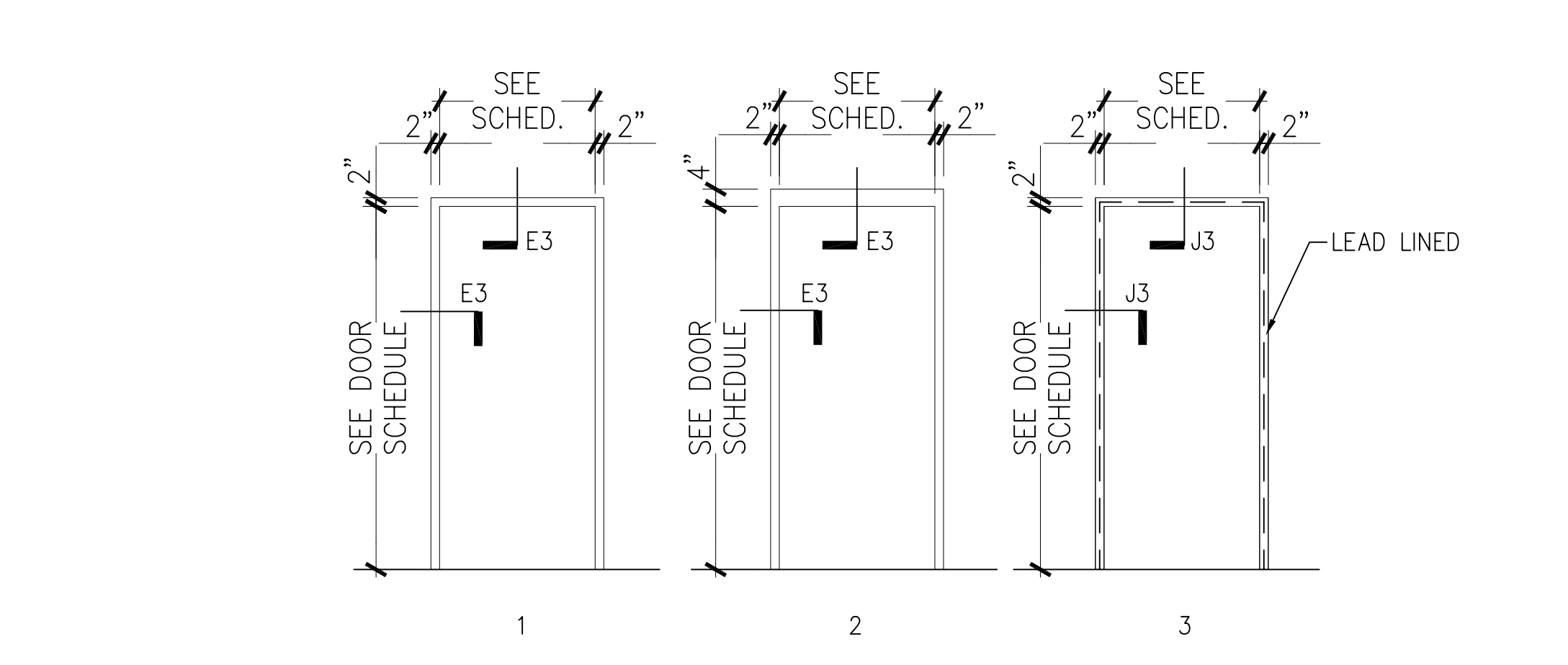
E3 FRAME DETAIL

3\"/>



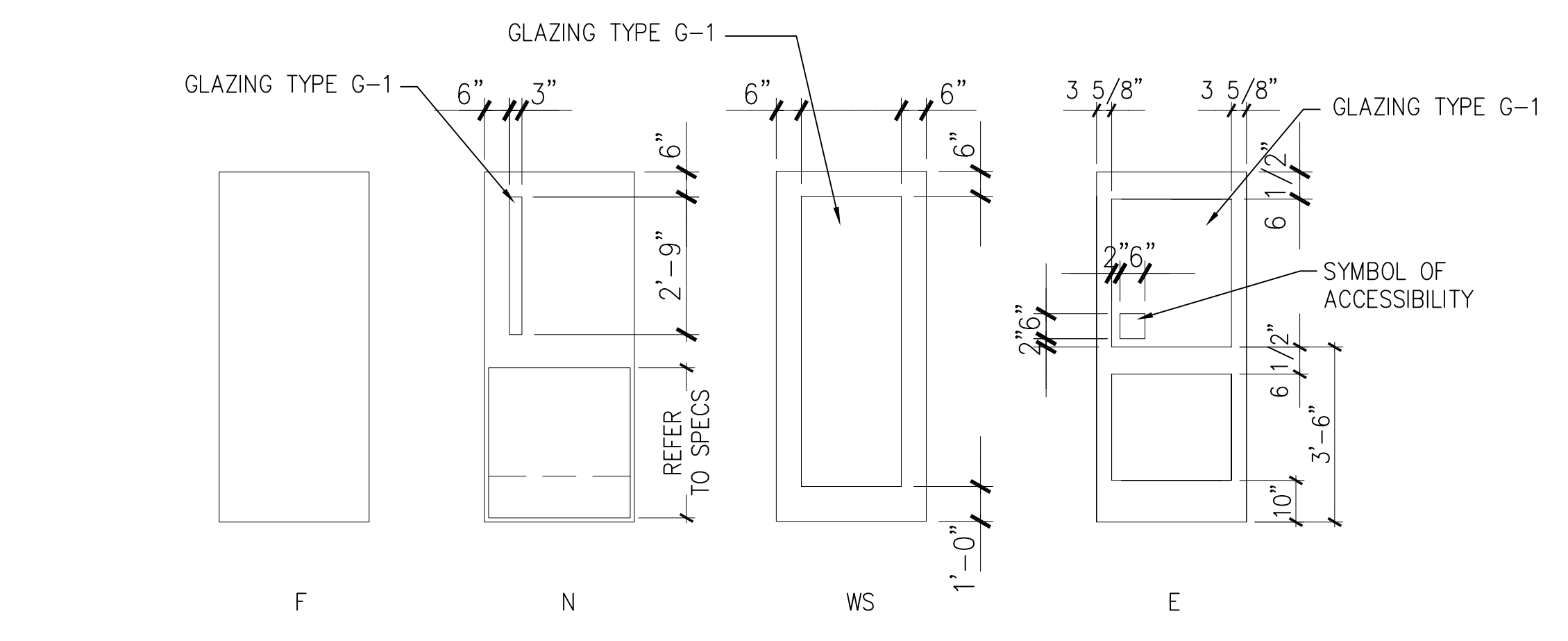
E6 DOOR AND FRAME SCHEDULE

NO SCALE



A12 DOOR PANEL TYPES

3/8\"/>



A1 OPEN

NO SCALE

A3 THRESHOLD

6\"/>

A6 DOOR FRAME TYPES

3/8\"/>

A12 DOOR PANEL TYPES

3/8\"/>

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

Door Schedule And Details

HEALTH SCIENCES BUILDING

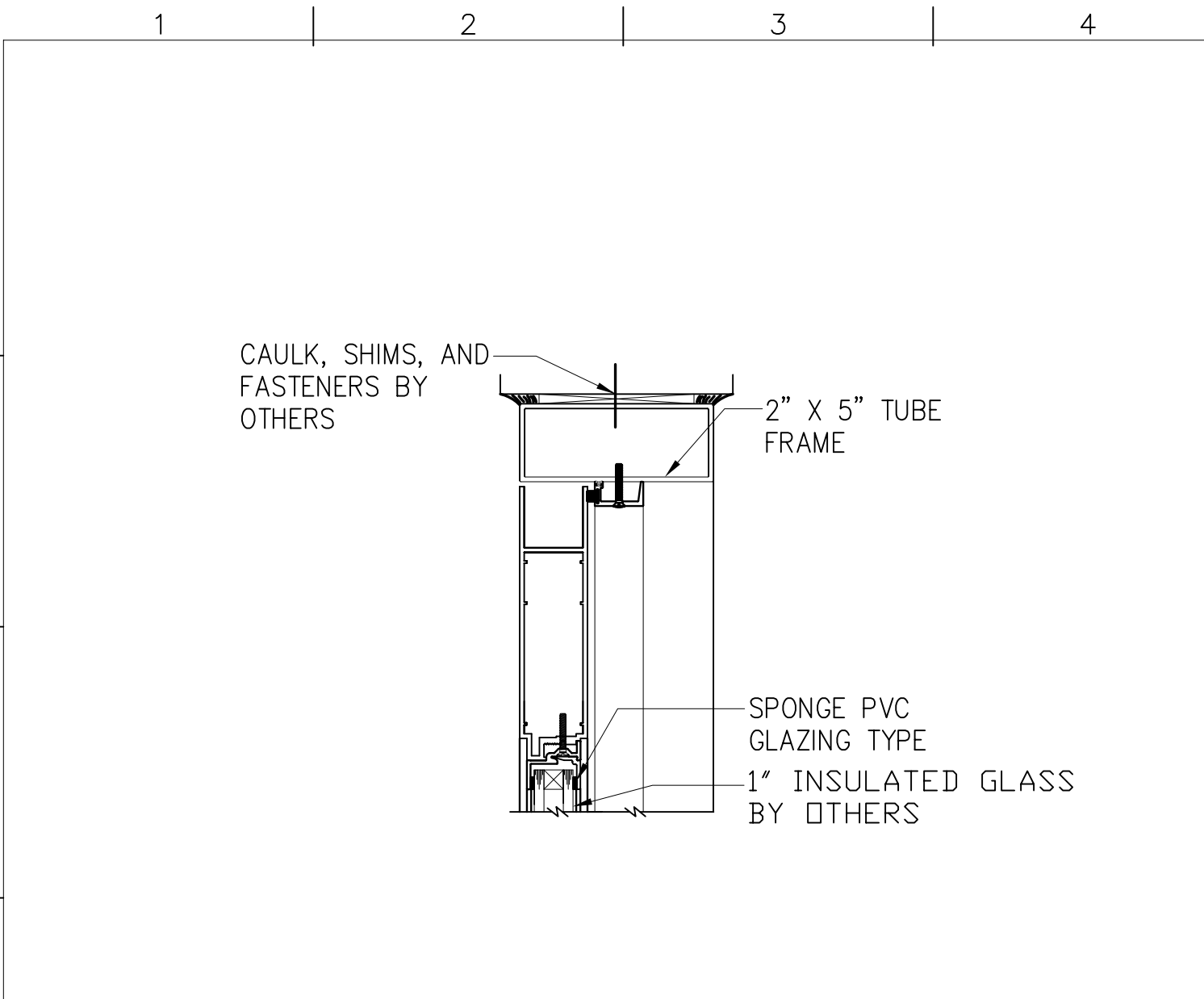
MONTGOMERY COLLEGE

MONTGOMERY COLLEGE
Takoma Park Campus
13th Election District
Montgomery County, Maryland
PROJECT # CC-01-MC-97/98-318

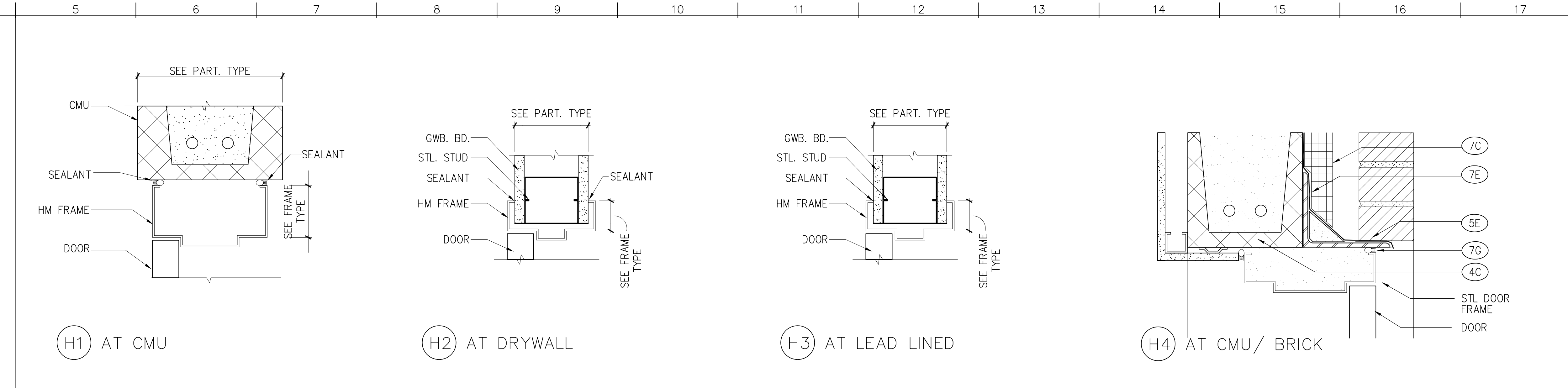
A900
SHEET 1 OF 11

Table with columns: no., revisions/submissions, date.

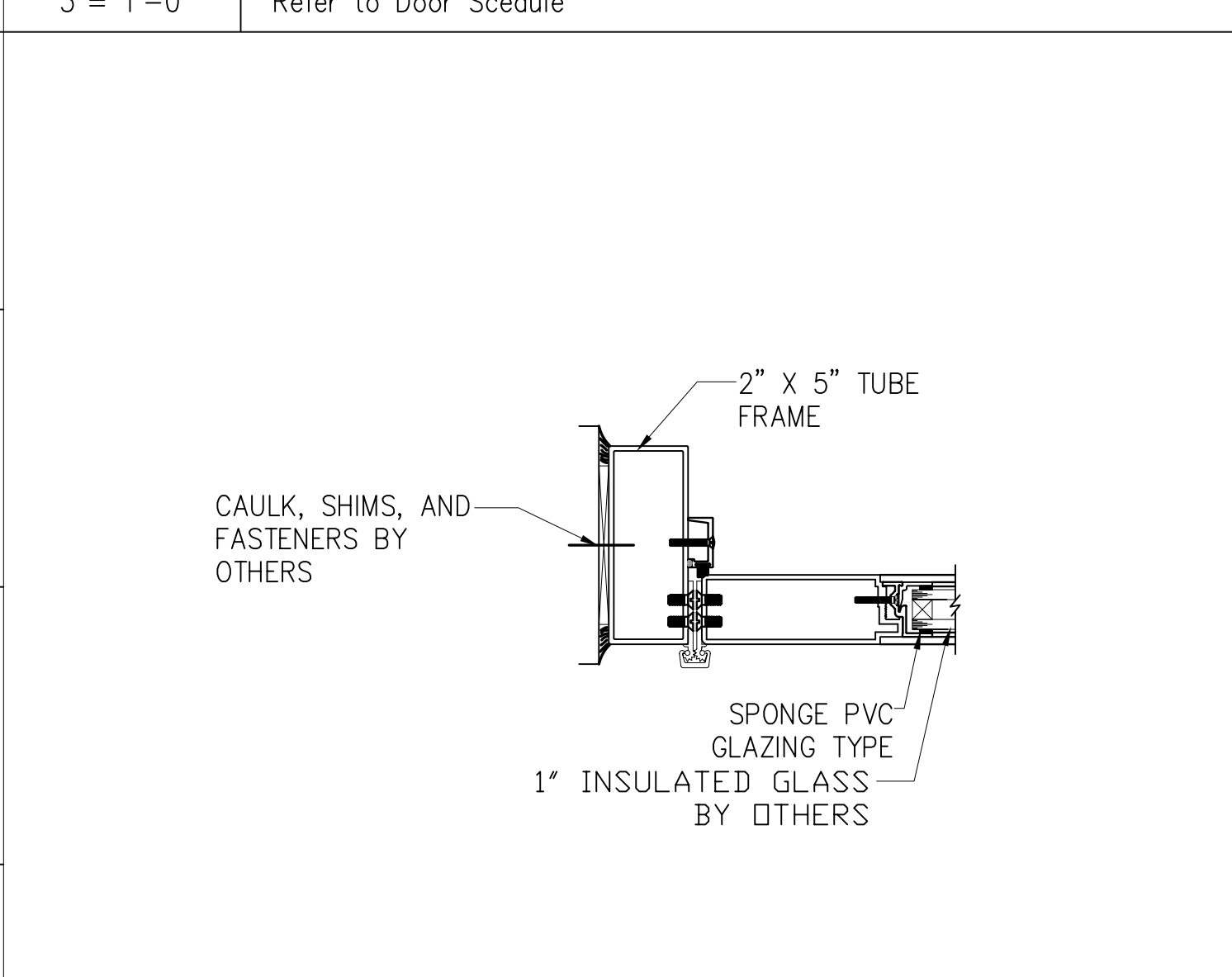
P:\1099\34495\01\MARCH\PL01\MSB-A902.DWG  
 PLOTTED BY ENG.  
 DATE: 2/20/02  
 SHEET 1 OF 22



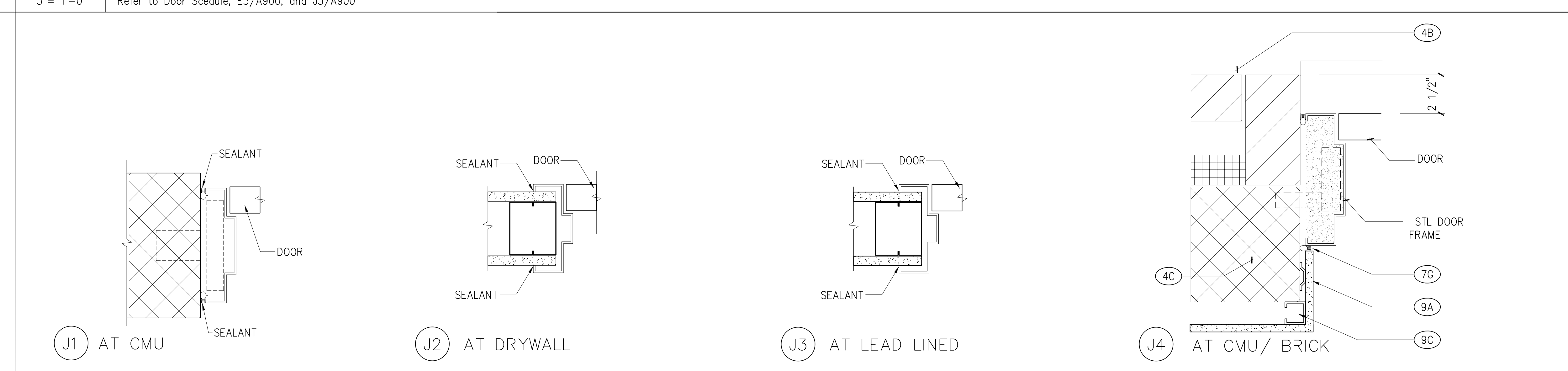
**N1** STOREFRONT DETAILS AT HEAD  
 3" = 1'-0" Refer to Door Schedule



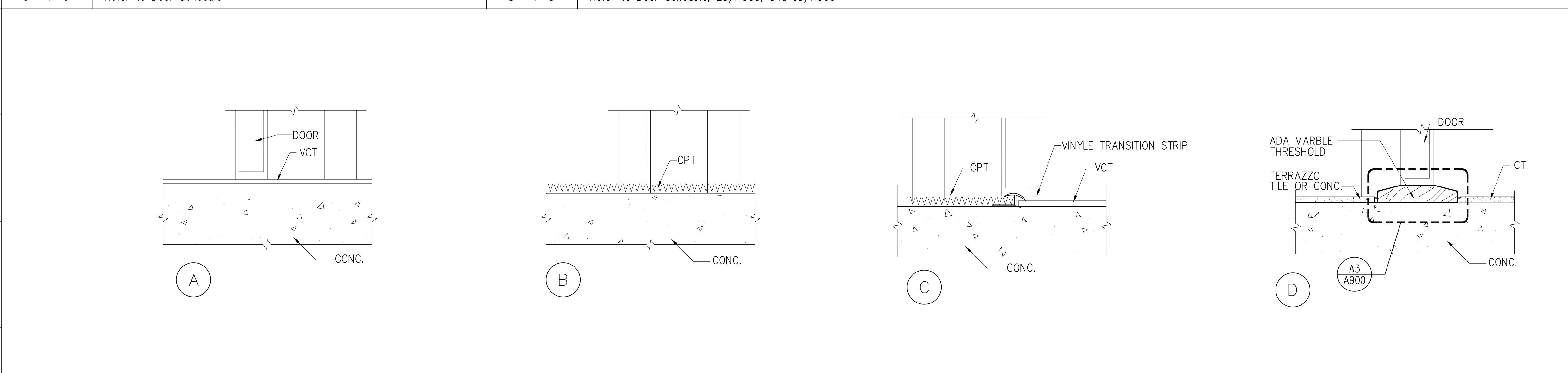
**N5** DOOR FRAME DETAILS AT HEAD  
 3" = 1'-0" Refer to Door Schedule, E3/A900, and J3/A900



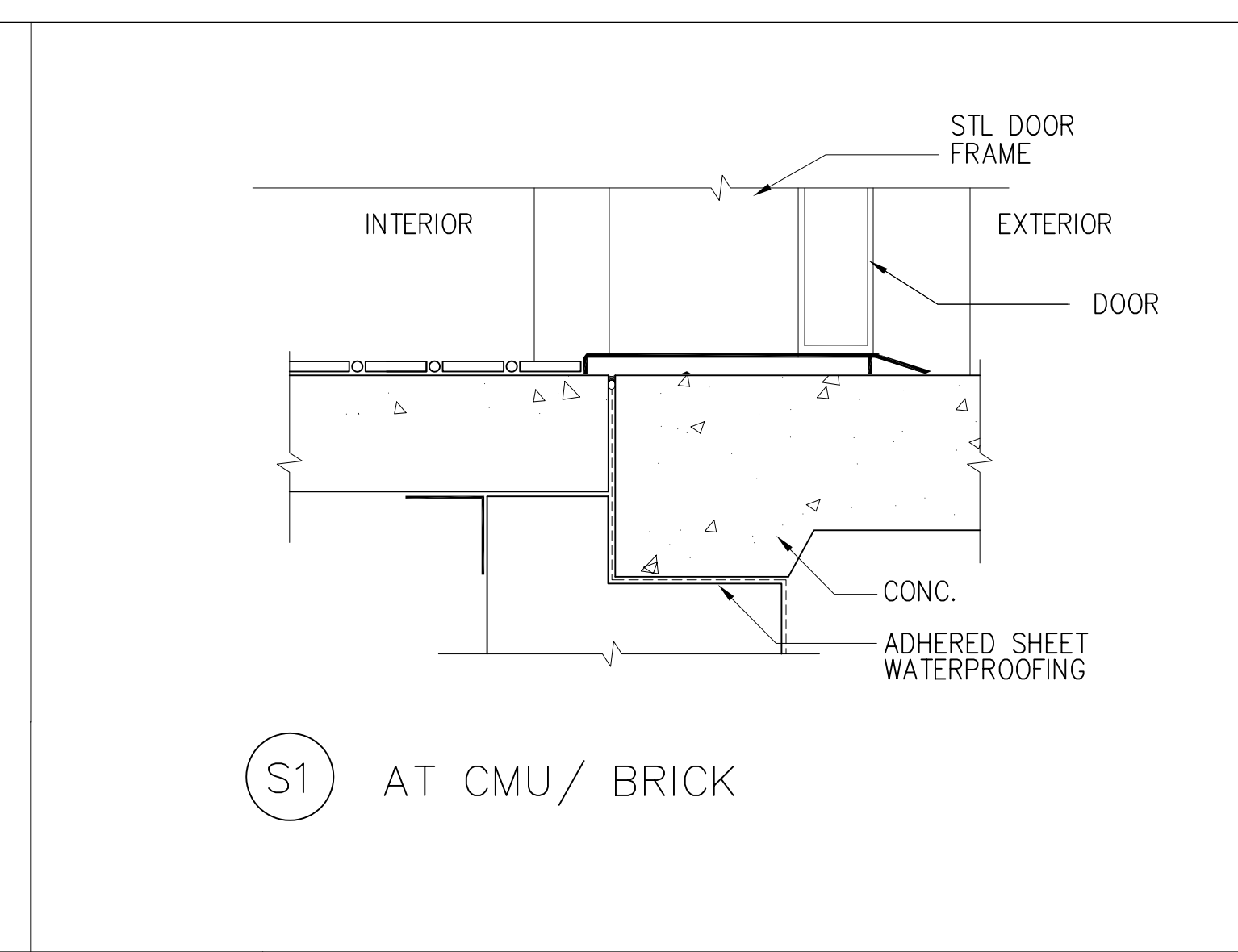
**J1** STOREFRONT DETAILS AT JAMB  
 3" = 1'-0" Refer to Door Schedule



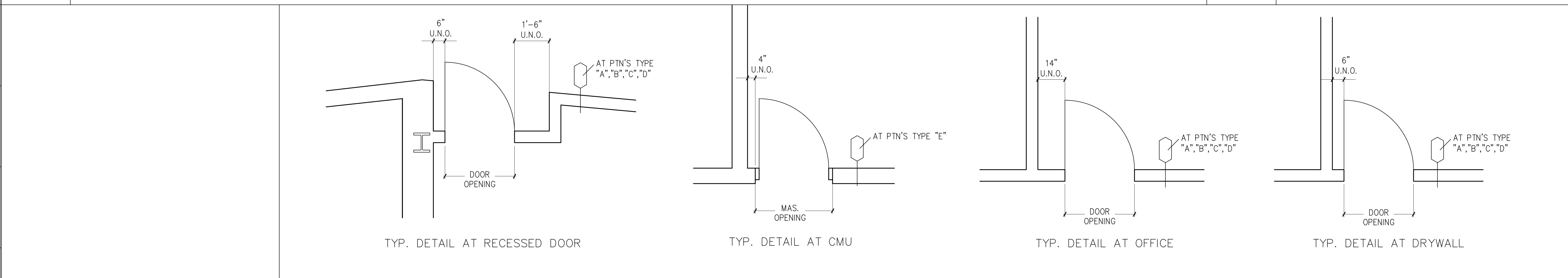
**J5** DOOR FRAME DETAILS AT JAMB  
 3" = 1'-0" Refer to Door Schedule, E3/A900, and J3/A900



**E1** THRESHOLD DETAILS  
 3" = 1'-0" Refer to Door Schedule



**E14** SILL DETAILS  
 3" = 1'-0" Refer to Door Schedule



**A6** TYP. DIMENSIONING AT DOORWAYS  
 1/2" = 1'-0" Refer to Door Schedule

**MATERIAL KEYED NOTES**

○ MATERIALS WITH THESE SYMBOLS LISTED BELOW

- 4B STONE VENER
- 4C CONCRETE MASONRY UNIT
- 5C GALV. STEEL LINTEL
- 7C INSULATION BOARD
- 7E SHEET METAL FLASHING trim metal coping
- 7G JOINT SEALANT
- 9A GYPSUM BOARD
- 9C STEEL STUD

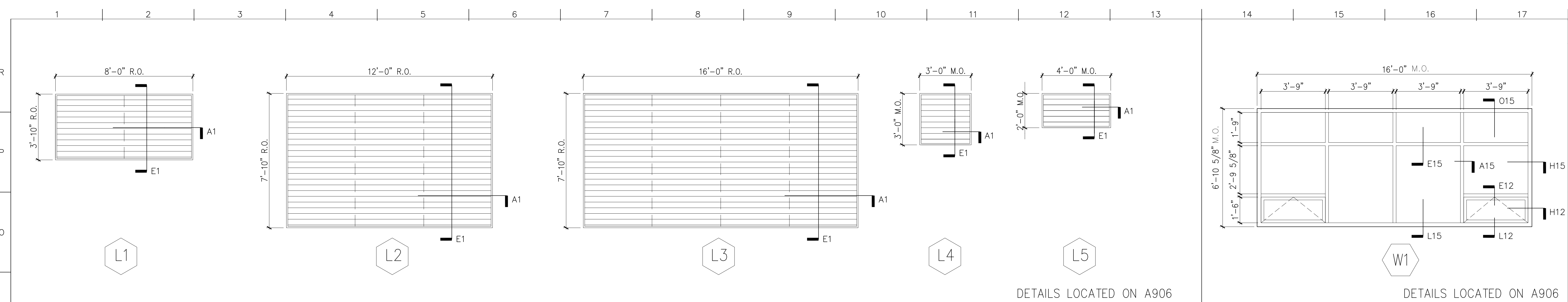
no.	revisions/submissions	date

**HEALTH SCIENCES BUILDING**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
**A902**  
 SHEET 1 OF 22

**Door Frame Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE  
 DATE



N1 LOUVERS  
3/8" = 1'-0"

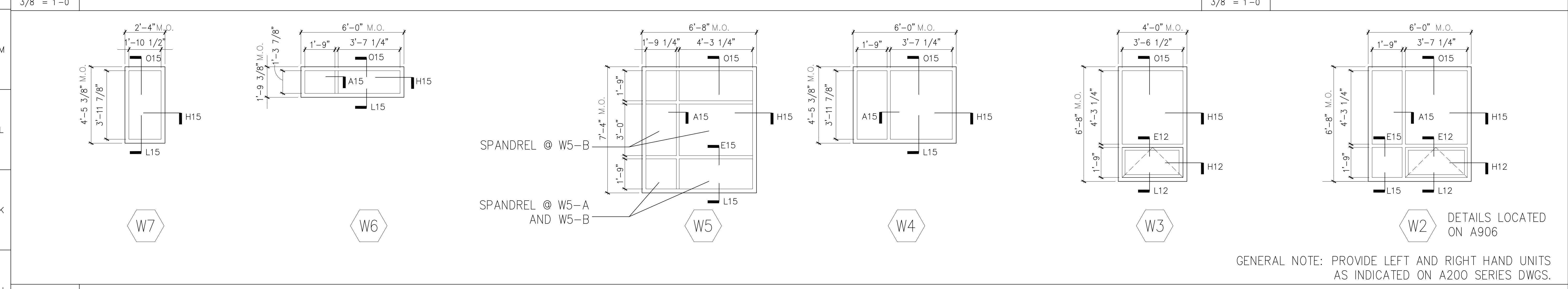
N14 WINDOW @ FOURTH FLOOR  
3/8" = 1'-0"

**GLAZING SCHEDULE**

- (G-1) 1/4" CLEAR, TEMPERED
- (G-2) 1/2" CLEAR, TEMPERED
- (G-3) 1/4" WIRE GLASS, DIAMOND MESH
- (G-4) 1" INSULATING UNIT:  
EXTERIOR- 1/4" CLEAR, HS, LOW-E GLASS  
INTERIOR- 1/4" CLEAR, HS, GLASS
- (G-5) 1" INSULATING UNIT:  
EXTERIOR- 1/4" CLEAR, HS, LOW-E GLASS  
INTERIOR- 1/4" CLEAR, HS, GLASS W/ OPACIFIER

**GENERAL NOTES**

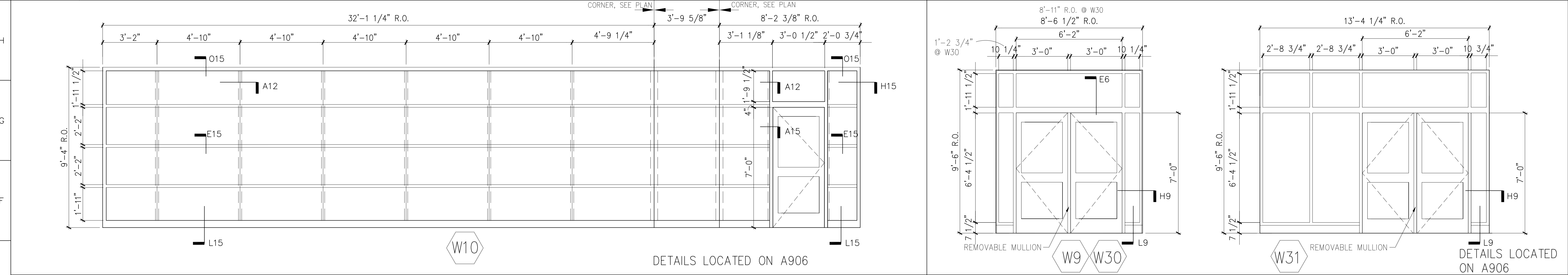
1. TYP. JOINT WIDTH OF 1/2" U.N.O.
2. REFER TO DWG. A906 FOR DETAILS



J1 WINDOWS  
3/8" = 1'-0"

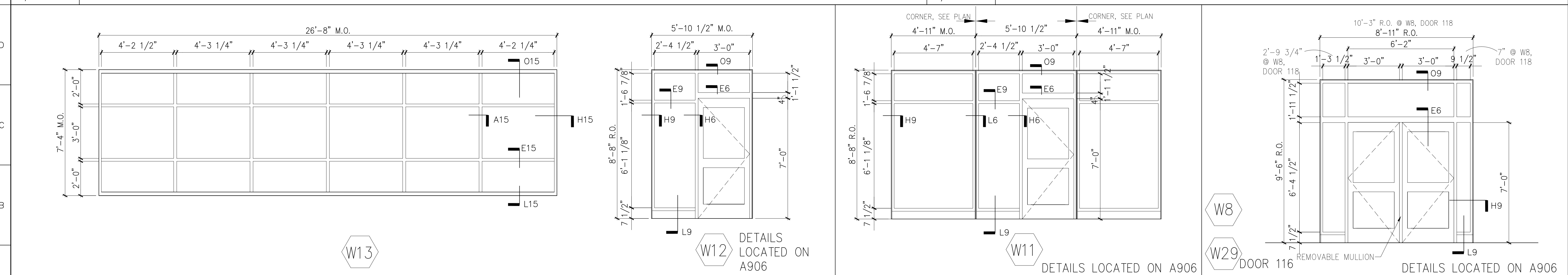
N14 WINDOW @ FOURTH FLOOR  
3/8" = 1'-0"

GENERAL NOTE: PROVIDE LEFT AND RIGHT HAND UNITS AS INDICATED ON A200 SERIES DWGS.



E1 STOREFRONT @ THIRD FLOOR LOUNGE  
3/8" = 1'-0"

E11 STOREFRONTS  
3/8" = 1'-0"



A1 WINDOW AND STOREFRONT @ FIRST FLOOR CLINIC  
3/8" = 1'-0"

A10 STOREFRONT @ CLINIC VESTIBULE  
3/8" = 1'-0"

A14 STOREFRONTS  
3/8" = 1'-0"

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Window Schedule and Details  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

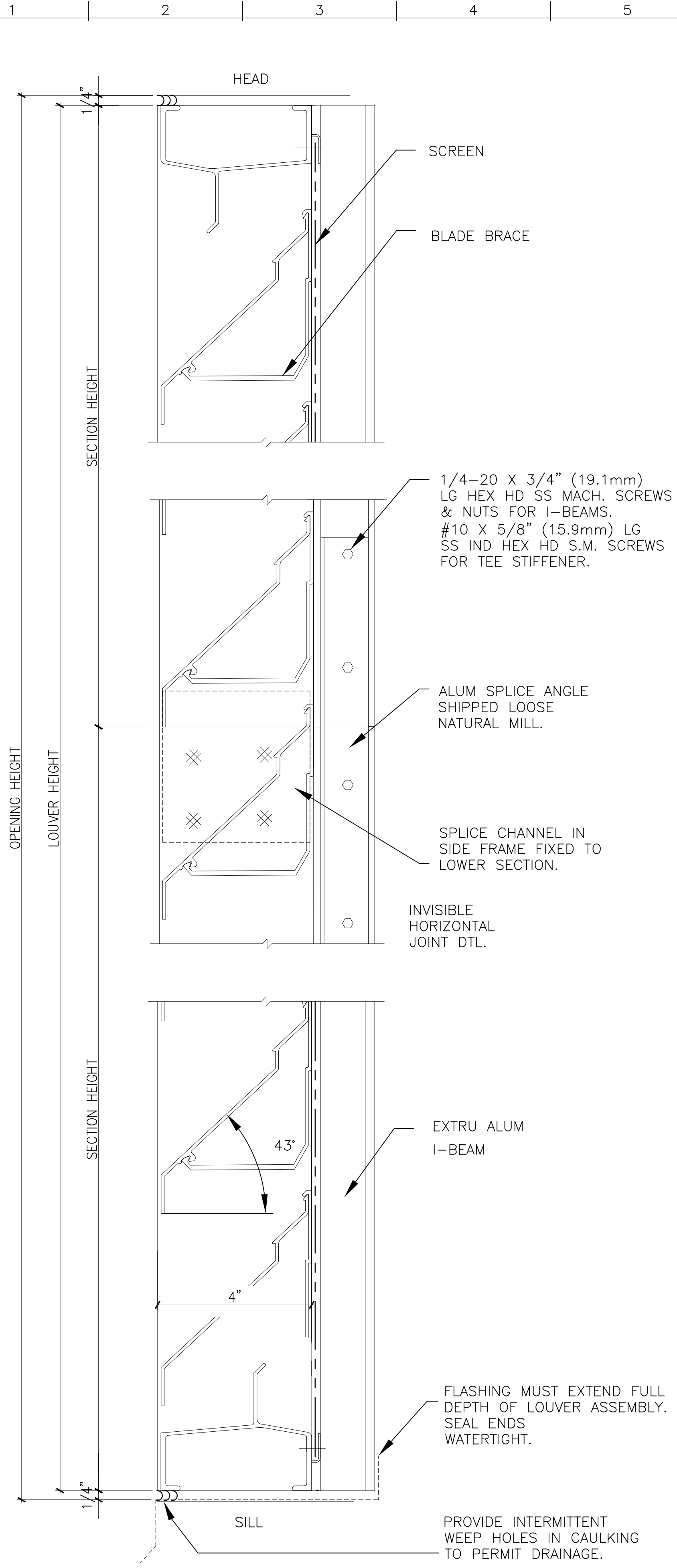
DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE APPROVAL  
DATE  
TITLE

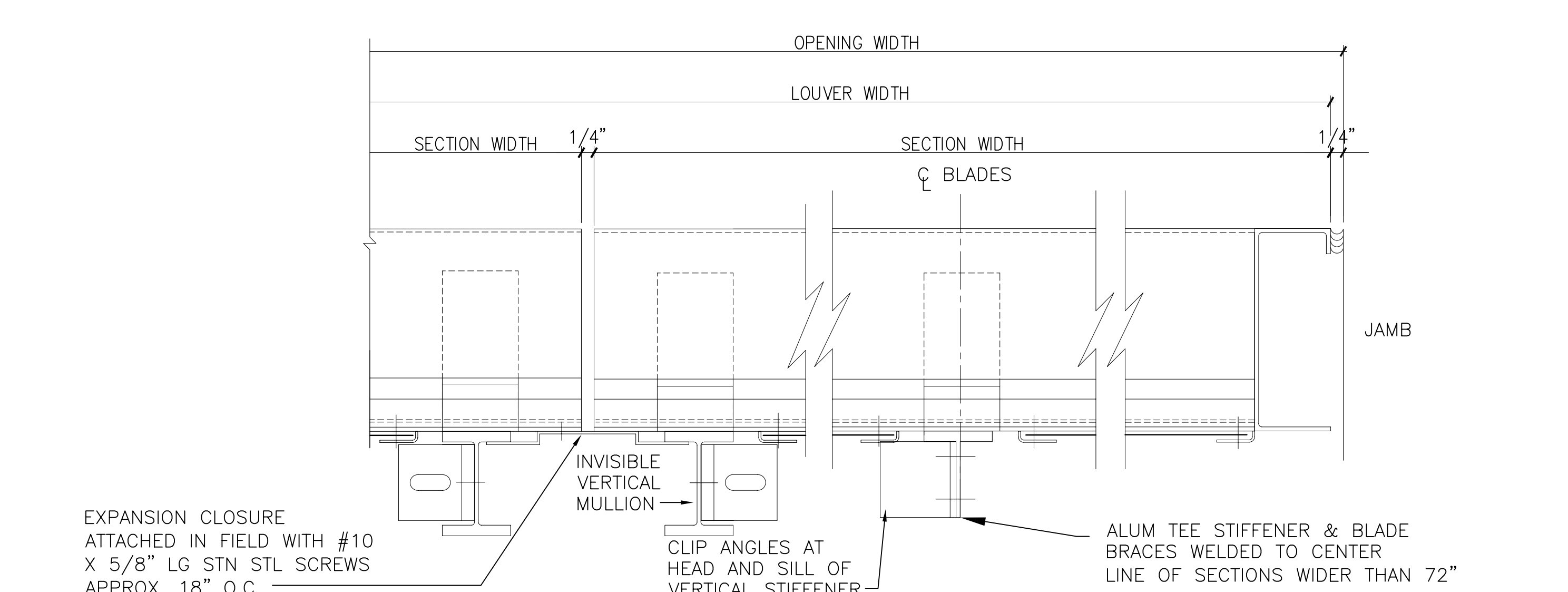
PROJECT NO. 34495.01  
DATE: 2/20/02  
A905  
SHEET XX OF XX

P:\0999\_34495.01\MARCH\PL01\W8-A905.DWG  
Printed by Euseb



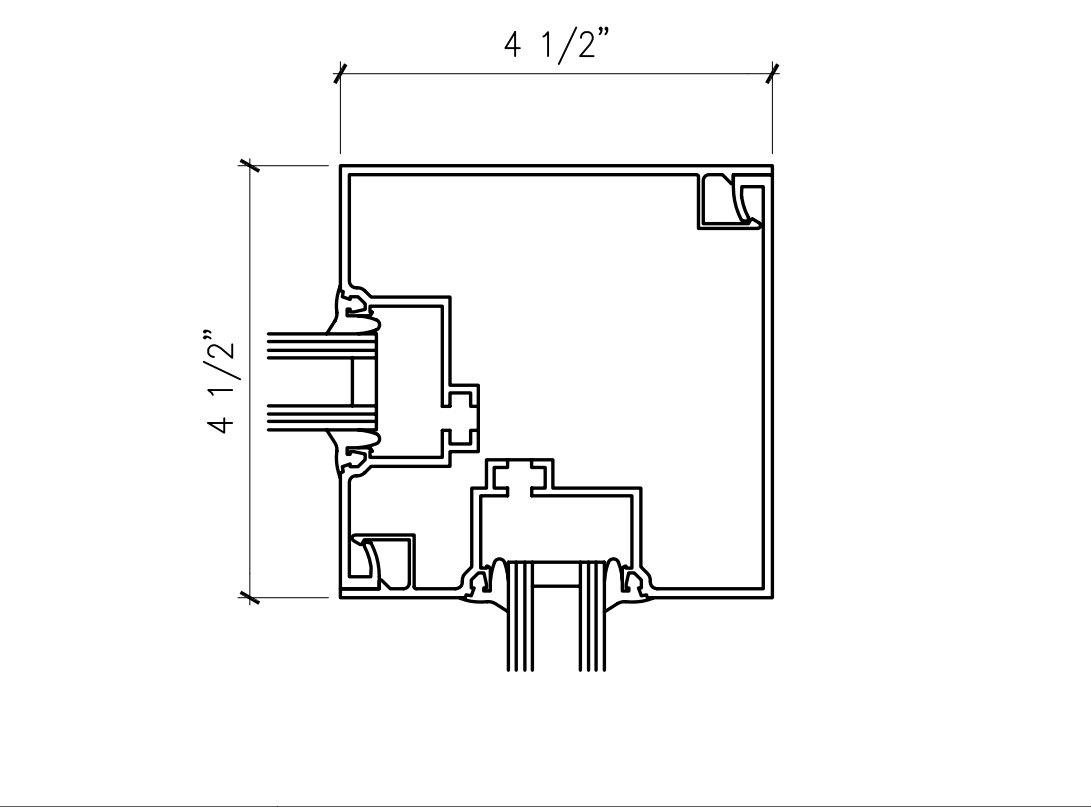


**E1 TYP. LOUVER VERTICAL DETAILS**  
6"= 1'-0" A905

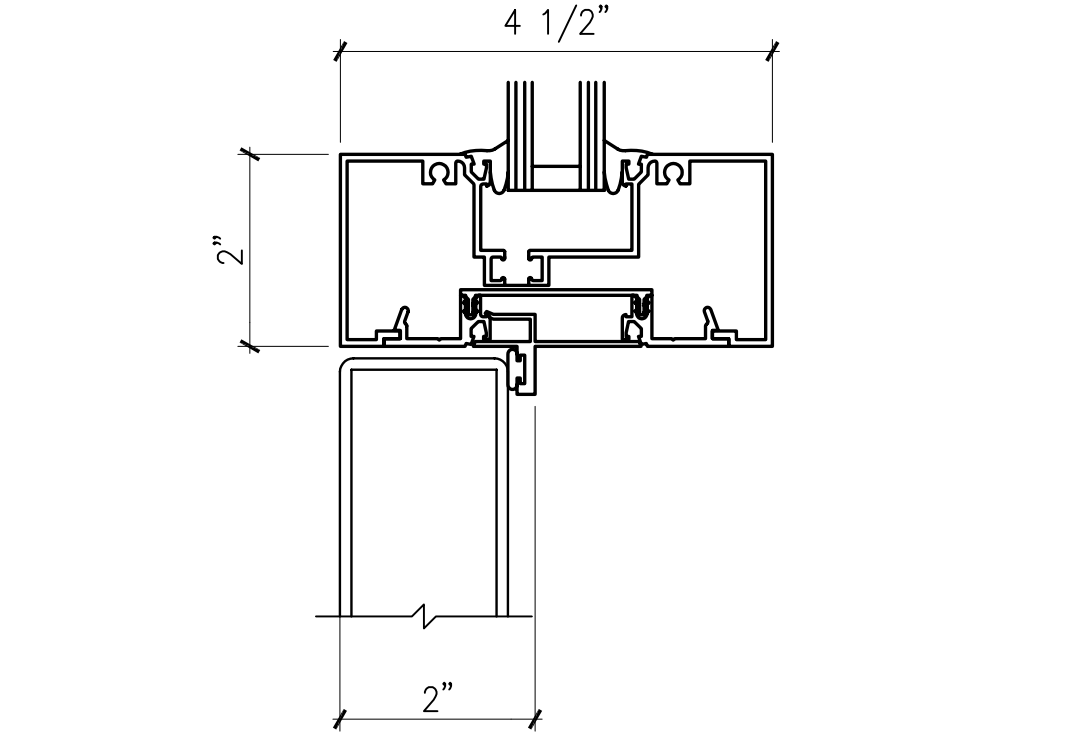


**A1 TYP. LOUVER HORIZ. DETAILS**  
6"= 1'-0" A905

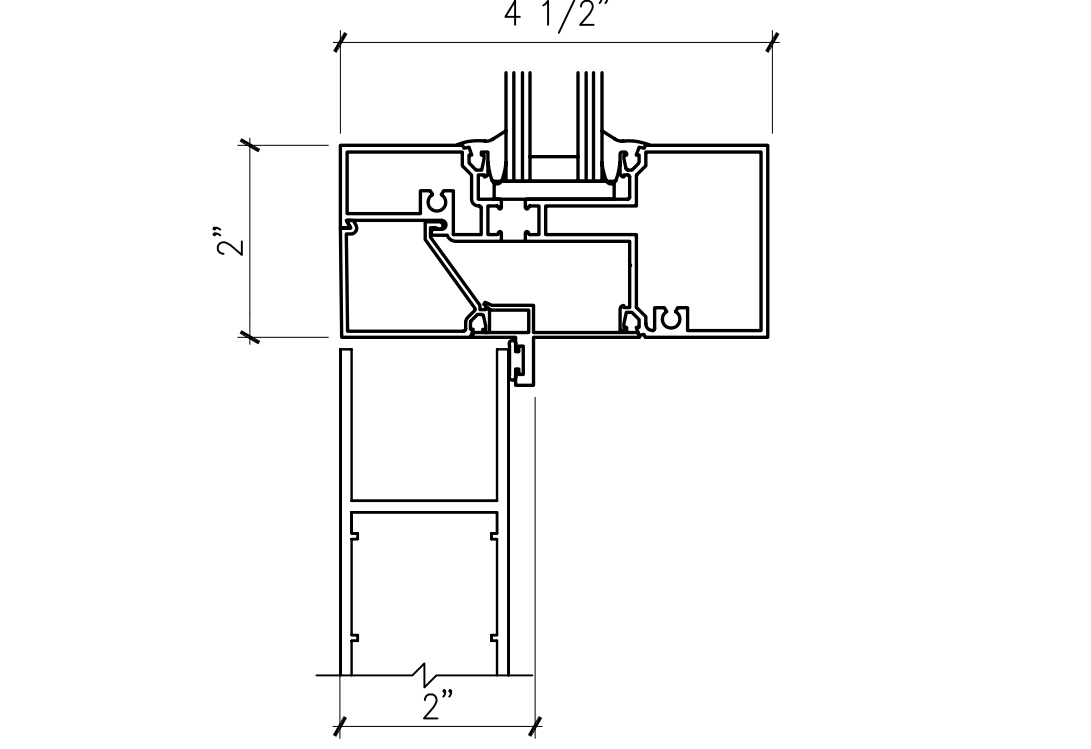
**O6 NOT USED**



**L6 TYP. CORNER**  
6"= 1'-0" A905

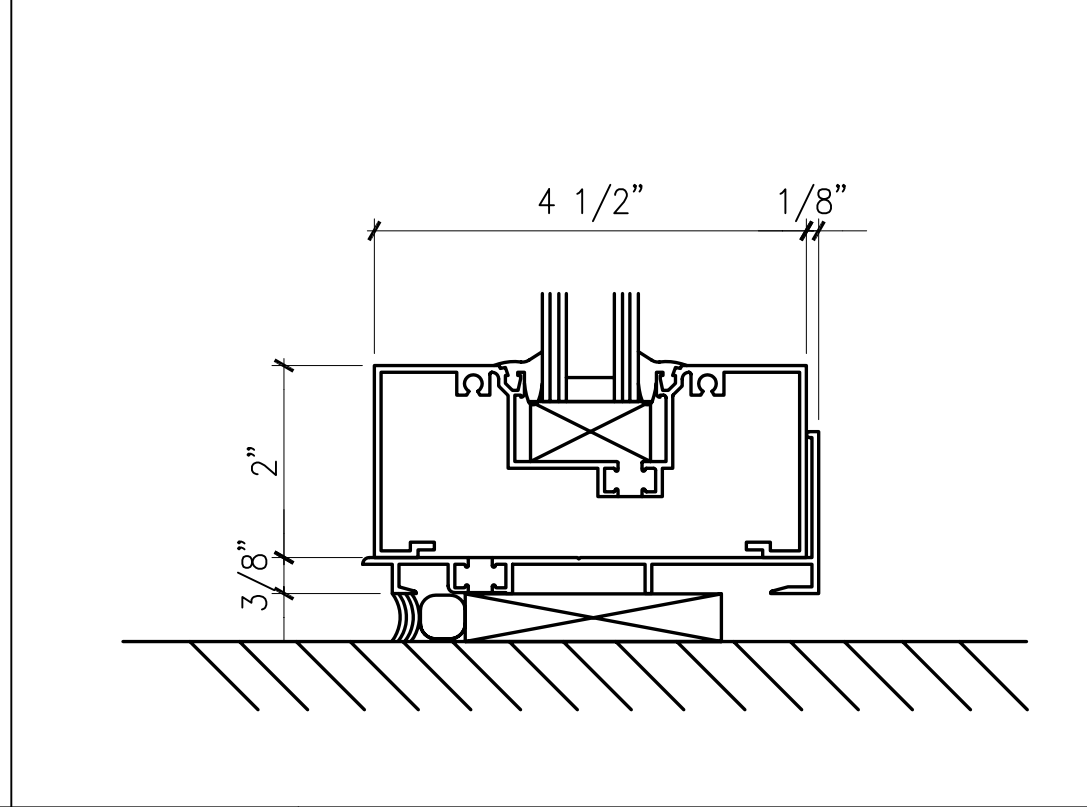


**H6 TYP. JAMB AT DOOR**  
6"= 1'-0" A905

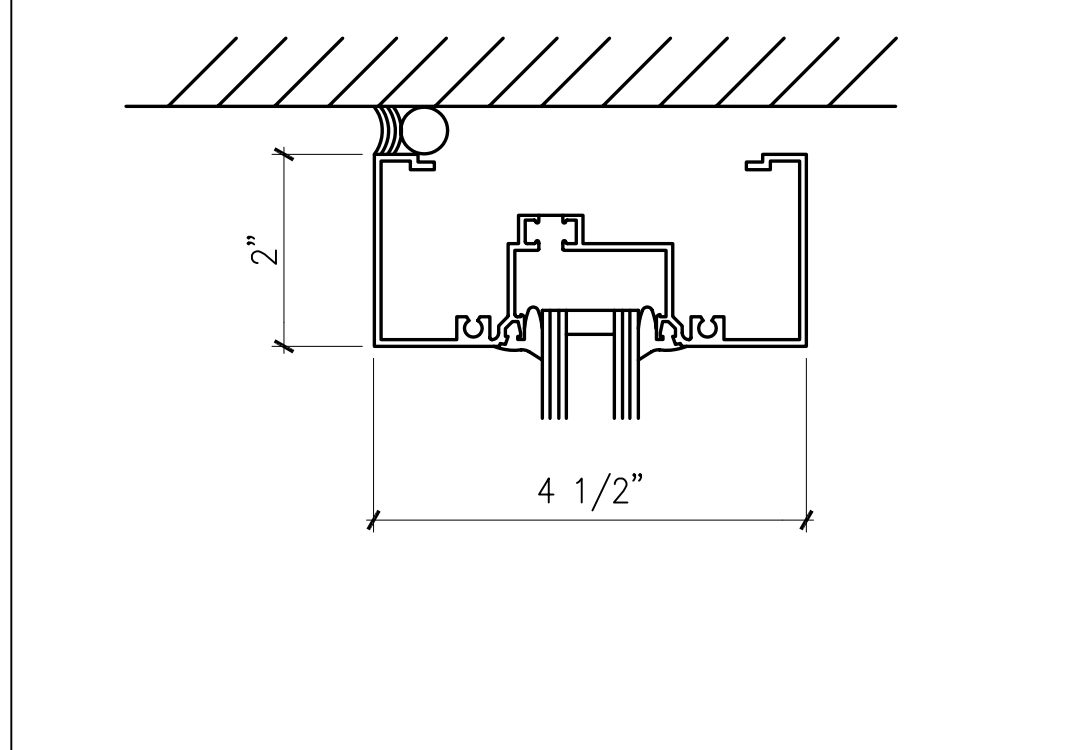


**E6 TYP. HEAD AT DOOR**  
6"= 1'-0" A905

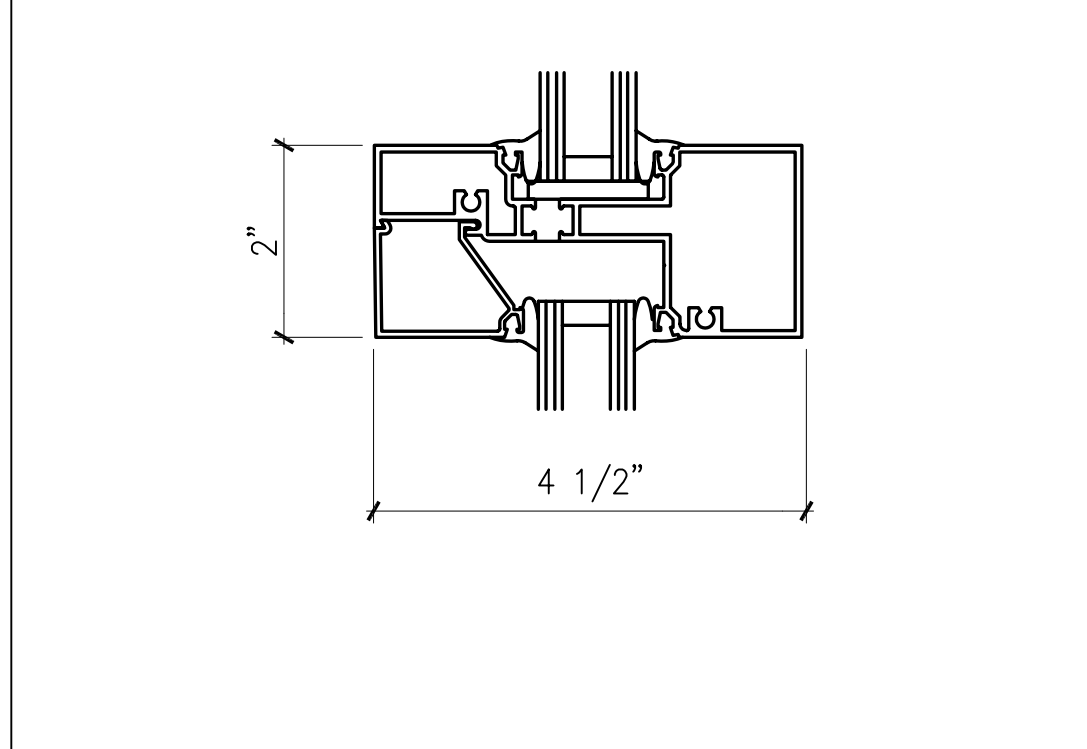
**O9 TYP. HEAD**  
6"= 1'-0" A905



**L9 TYP. SILL**  
6"= 1'-0" A905

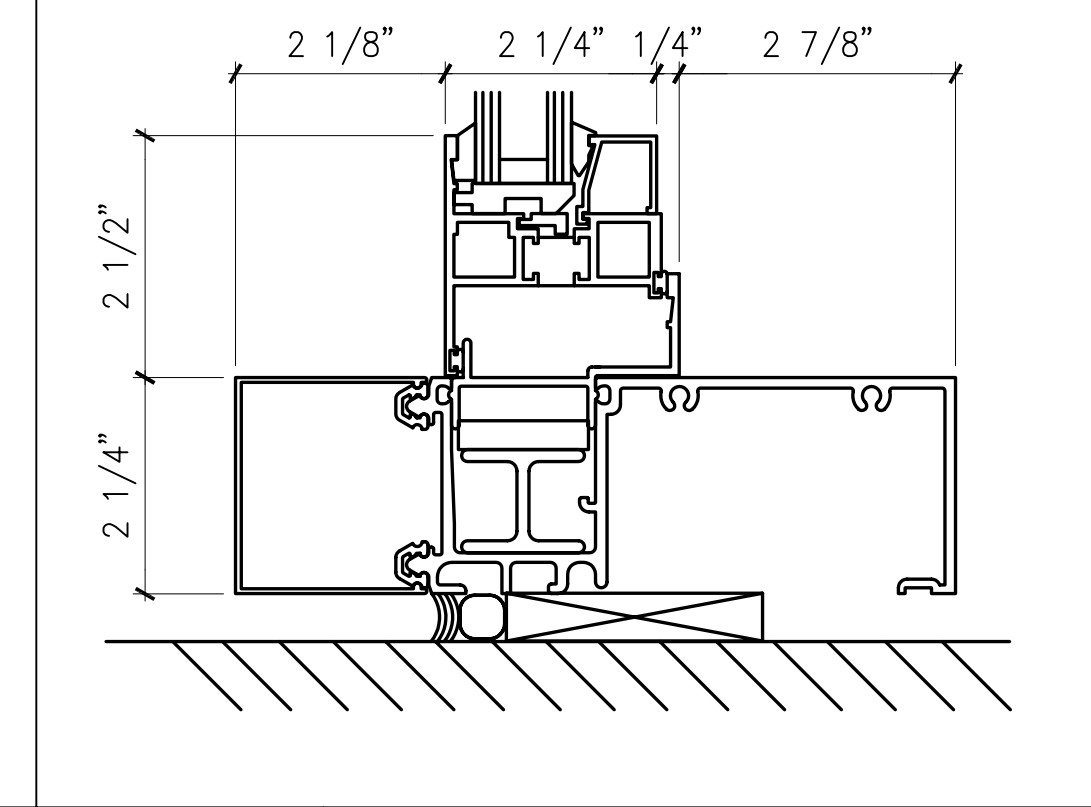


**H9 TYP. JAMB**  
6"= 1'-0" A905

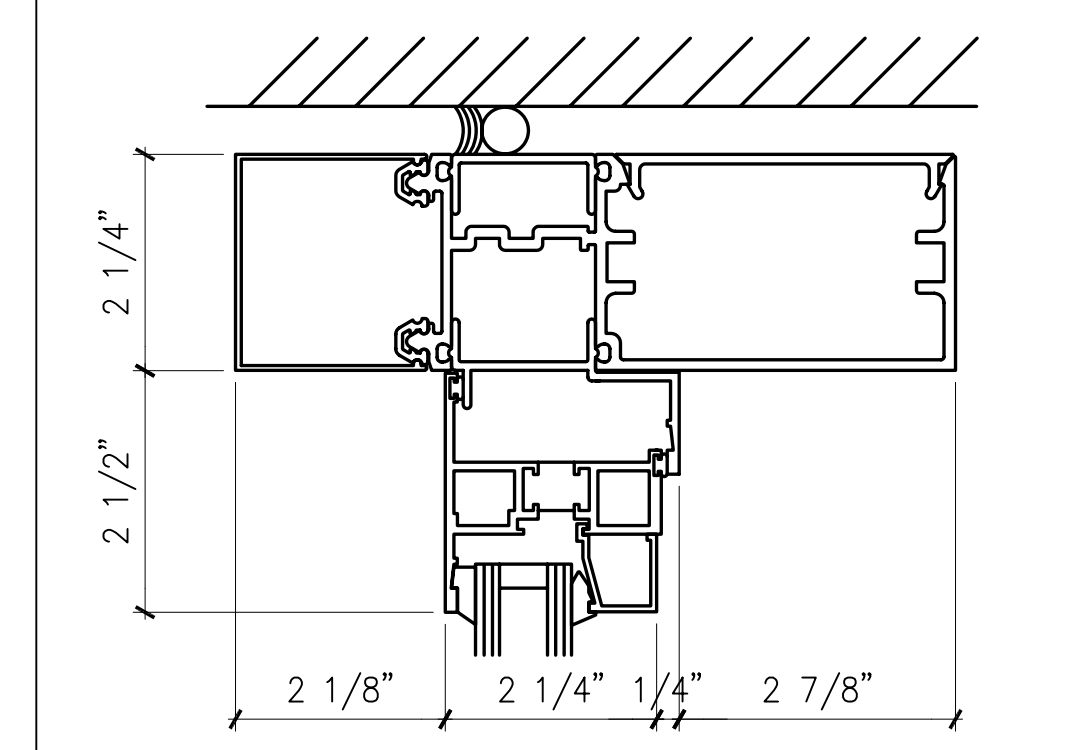


**E9 TYP. HORIZ. MULLION**  
6"= 1'-0" A905

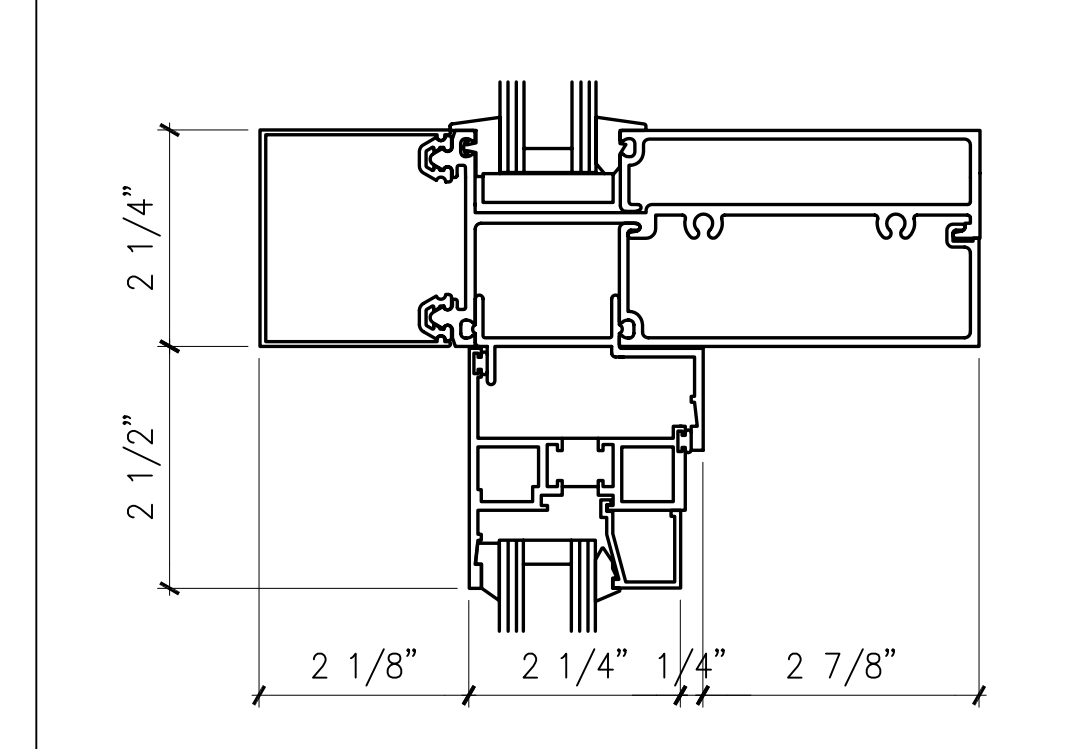
**O12 NOT USED**



**L12 VENT SILL**  
6"= 1'-0" A905

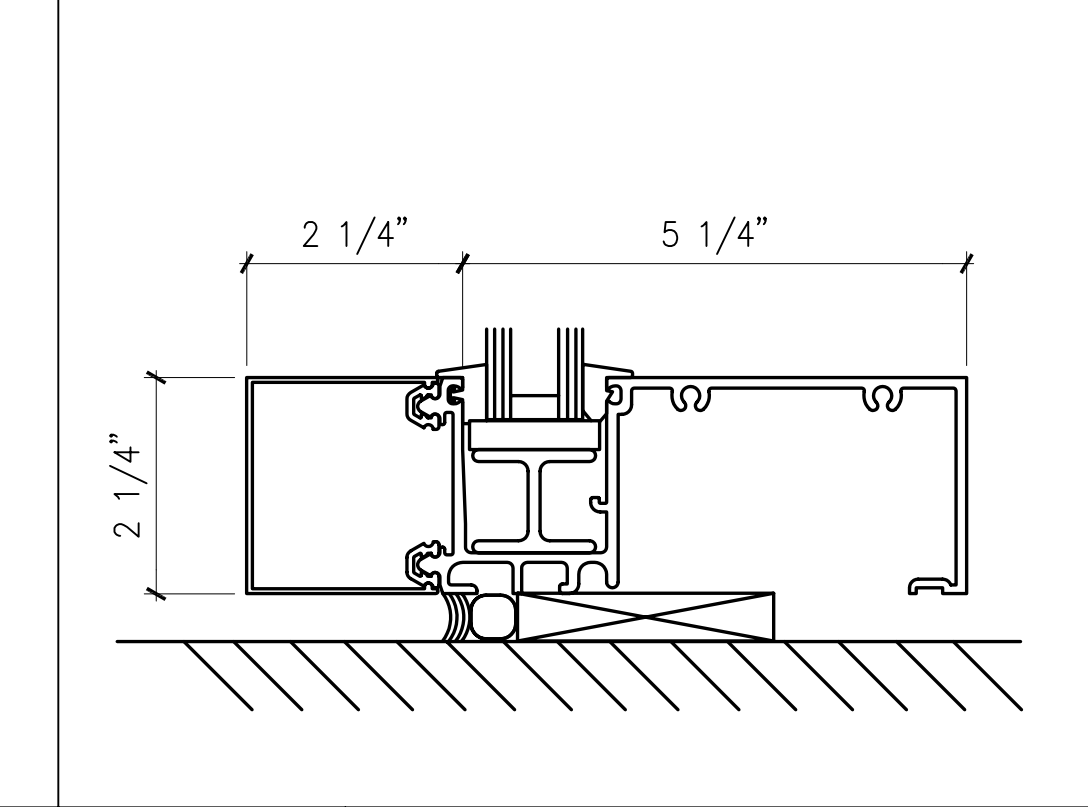


**H12 VENT JAMB**  
6"= 1'-0" A905

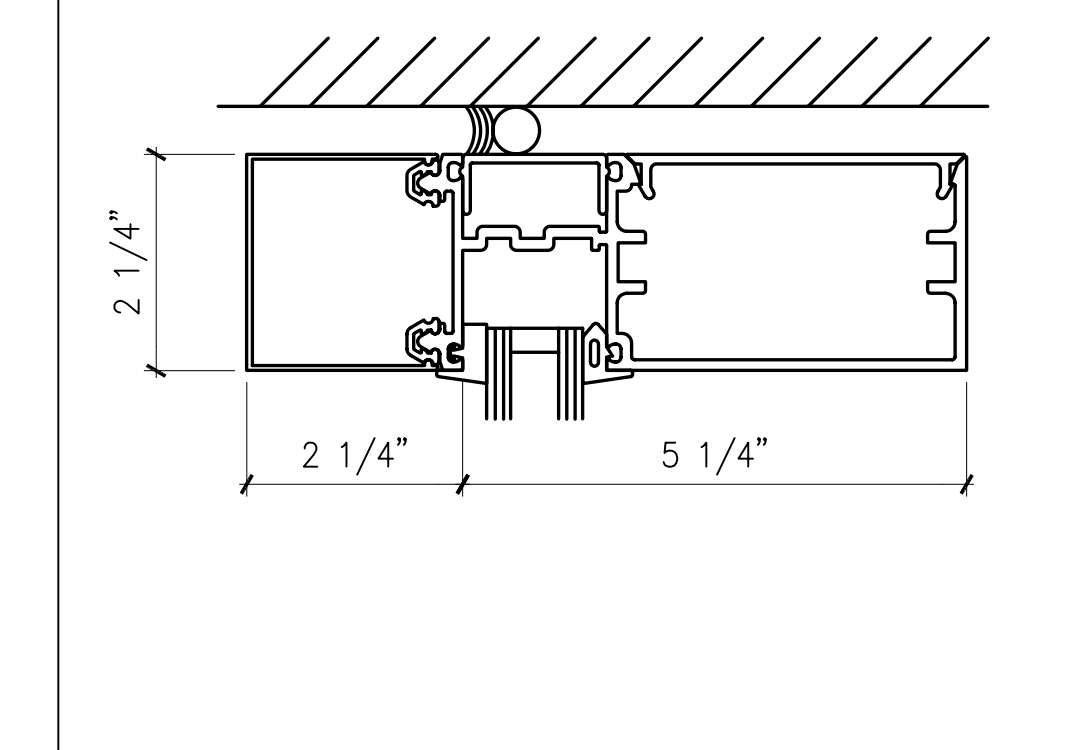


**E12 VENT HEAD**  
6"= 1'-0" A905

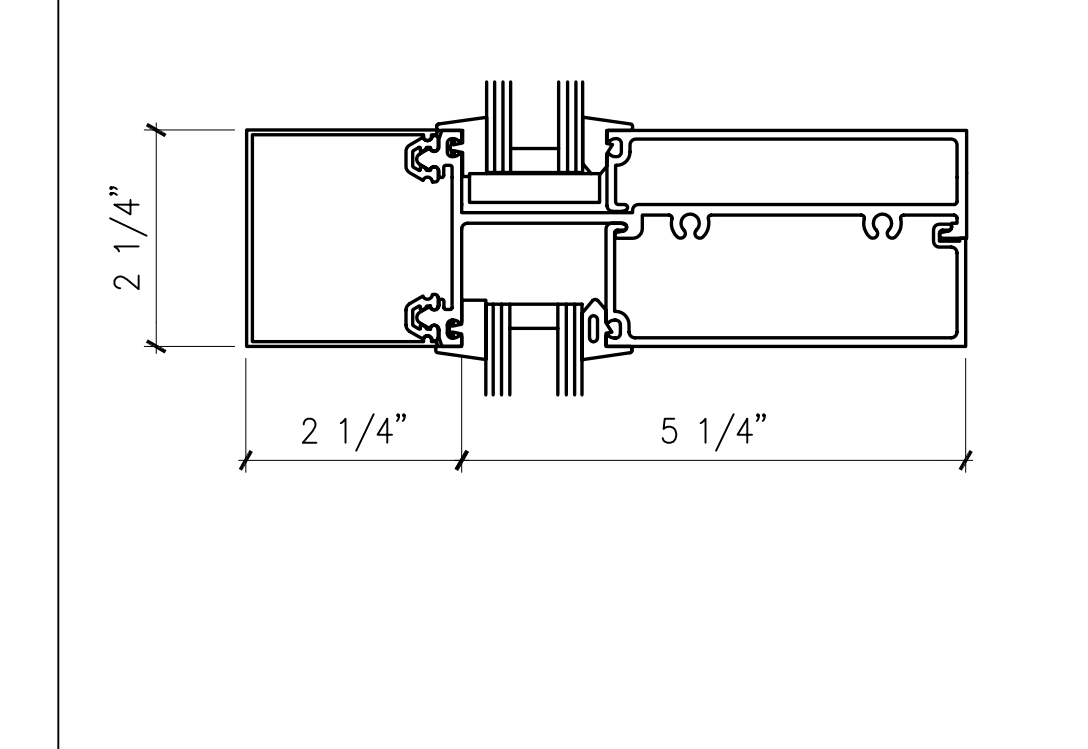
**O15 WINDOW AT HEAD**  
6"= 1'-0" A905



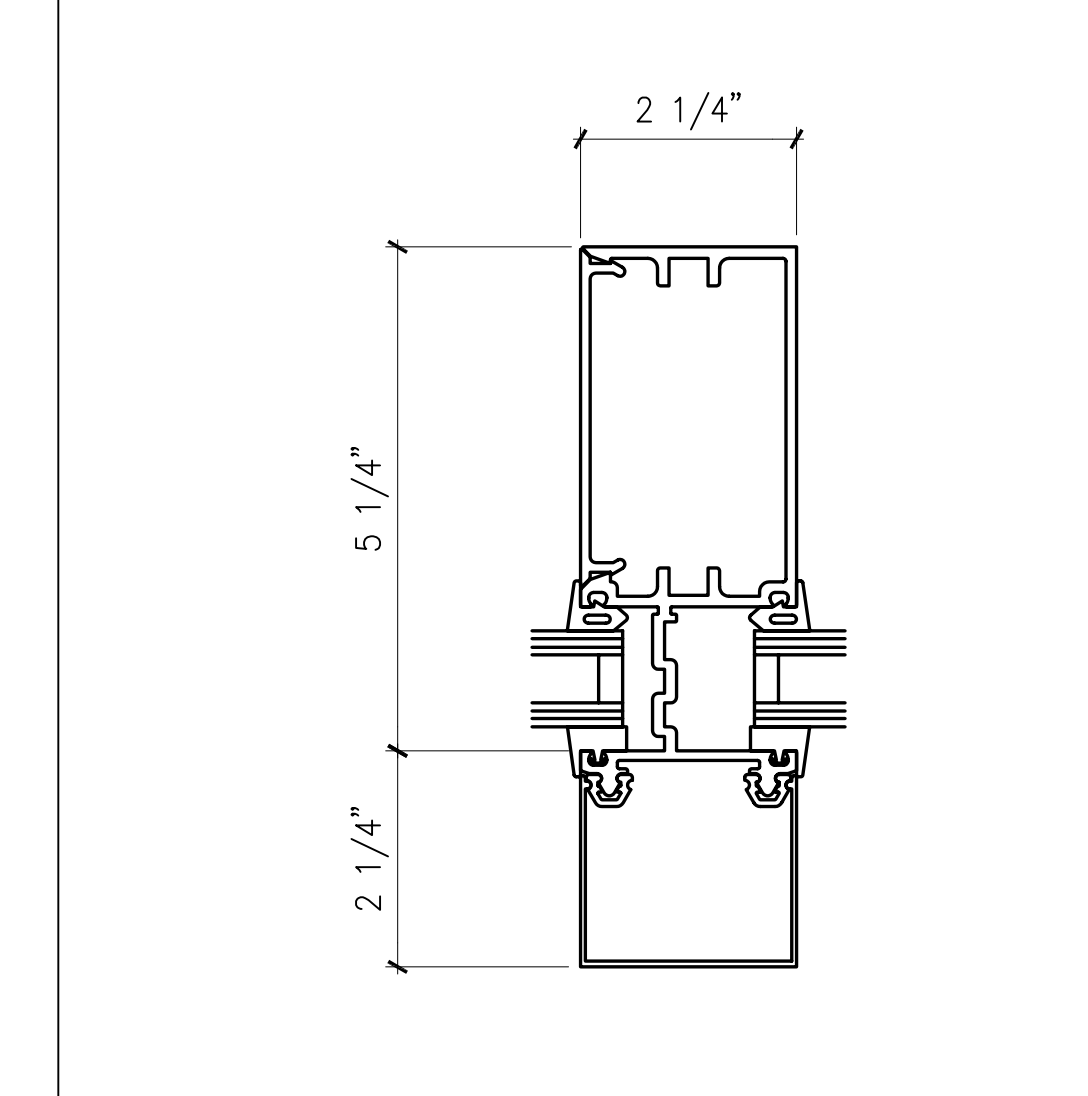
**L15 WINDOW AT SILL**  
6"= 1'-0" A905



**H15 WINDOW AT JAMB**  
6"= 1'-0" A905



**E15 TYP. HORIZ. MULLION**  
6"= 1'-0" A905



**A15 TYP. VERT. MULLION**  
6"= 1'-0" A905

**A9 TYP. VERT. MULLION**  
6"= 1'-0" A905

**GLAZING SCHEDULE**

- (G-1) 1/4" CLEAR, TEMPERED
- (G-2) 1/2" CLEAR, TEMPERED
- (G-3) 1/4" WIRE GLASS, DIAMOND MESH
- (G-4) 1" INSULATING UNIT:  
EXTERIOR- 1/4" CLEAR, HS, LOW-E GLASS  
INTERIOR- 1/4" CLEAR, HS, GLASS
- (G-5) 1" INSULATING UNIT:  
EXTERIOR- 1/4" CLEAR, HS, LOW-E GLASS  
INTERIOR- 1/4" CLEAR, HS, GLASS W/ OPACIFIER

DATE	TITLE

DATE	DESIGN

DATE	DESIGN

no.	revisions/submissions	date

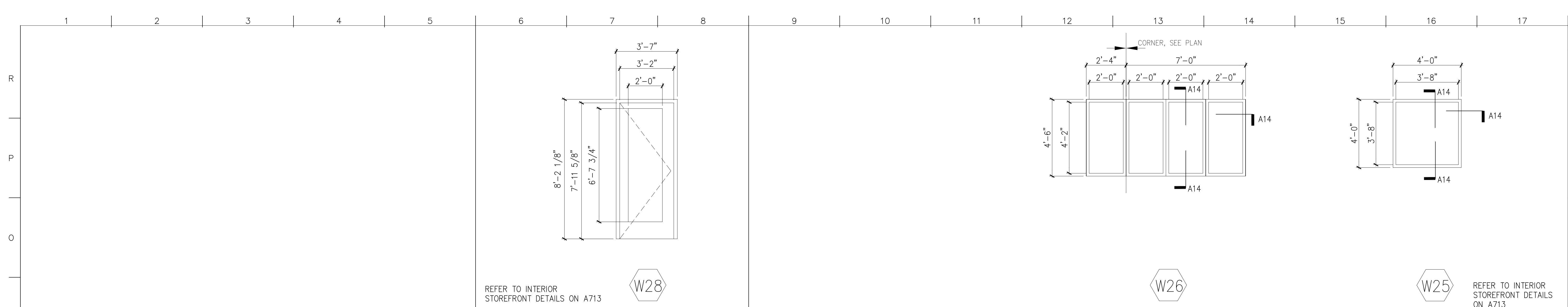
**Window Details**  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

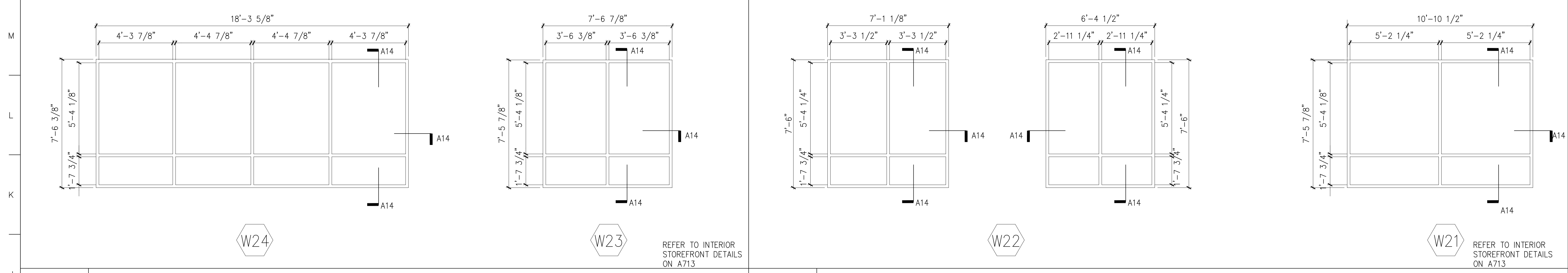
PROJECT NO. 34495.01  
DATE: 2/20/02  
**A906**  
SHEET X OF XX

DEPARTMENT OF GENERAL SERVICES APPROVAL  
MONTGOMERY COLLEGE APPROVAL

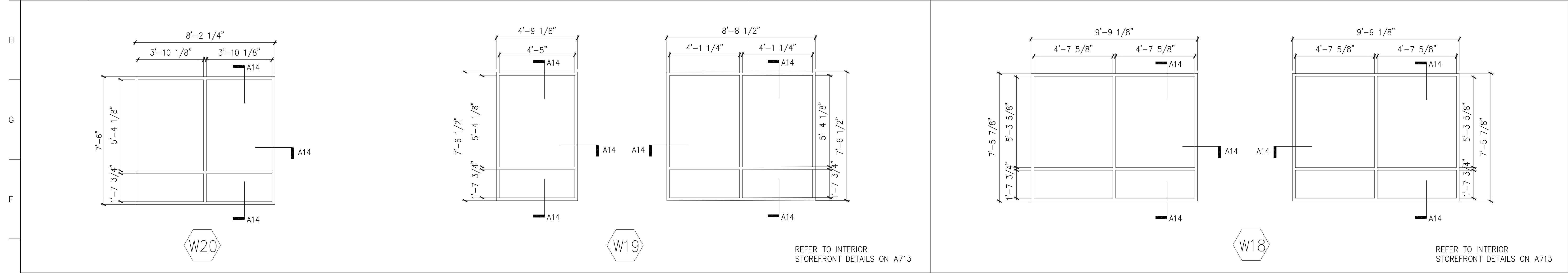
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Printed by Elnor



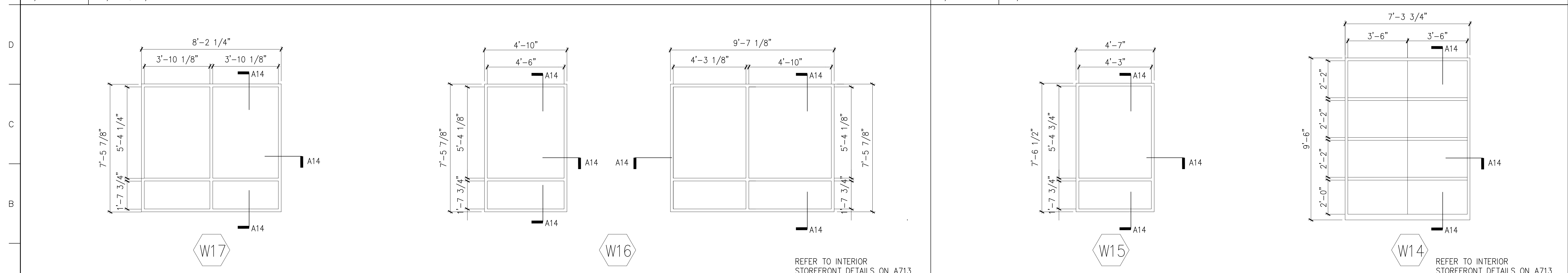
N1	OPEN	N6	EXTERIOR STOREFRONT	N9	INTERIOR WINDOWS
3/8" = 1'-0"		3/8" = 1'-0"	J11/A202	3/8" = 1'-0"	G1/A621, A11/A622



J1	INTERIOR STOREFRONTS	J9	INTERIOR STOREFRONT
3/8" = 1'-0"	L12/A614, L12/A623	3/8" = 1'-0"	K1/A613, A1/A614



E1	INTERIOR STOREFRONTS	E11	INTERIOR STOREFRONTS
3/8" = 1'-0"	O1/A612, A1/A613	3/8" = 1'-0"	K1/A612



A1	INTERIOR STOREFRONTS	A11	INTERIOR STOREFRONTS
3/8" = 1'-0"	K1/A611, A1/A612	3/8" = 1'-0"	D1/A611, K1/A611, G1/A612

GLAZING SCHEDULE	
(G-1)	1/4" CLEAR, TEMPERED
(G-2)	1/2" CLEAR, TEMPERED
(G-3)	1/4" WIRE GLASS, DIAMOND MESH
(G-4)	1" INSULATING UNIT: EXTERIOR- 1/4" CLEAR, HS, LOW-E GLASS INTERIOR- 1/4" CLEAR, HS, GLASS
(G-5)	1" INSULATING UNIT: EXTERIOR- 1/4" CLEAR, HS, LOW-E GLASS INTERIOR- 1/4" CLEAR, HS, GLASS W/ OPACIFIER

**NOTES**

- TYP. JOINT WIDTH OF 1/2" U.N.O.
- REFER TO A13/A713 FOR TYPICAL HEAD, SILL AND JAMB DETAILS AT STOREFRONT WINDOWS.

DATE	
TITLE	
APPROVAL	

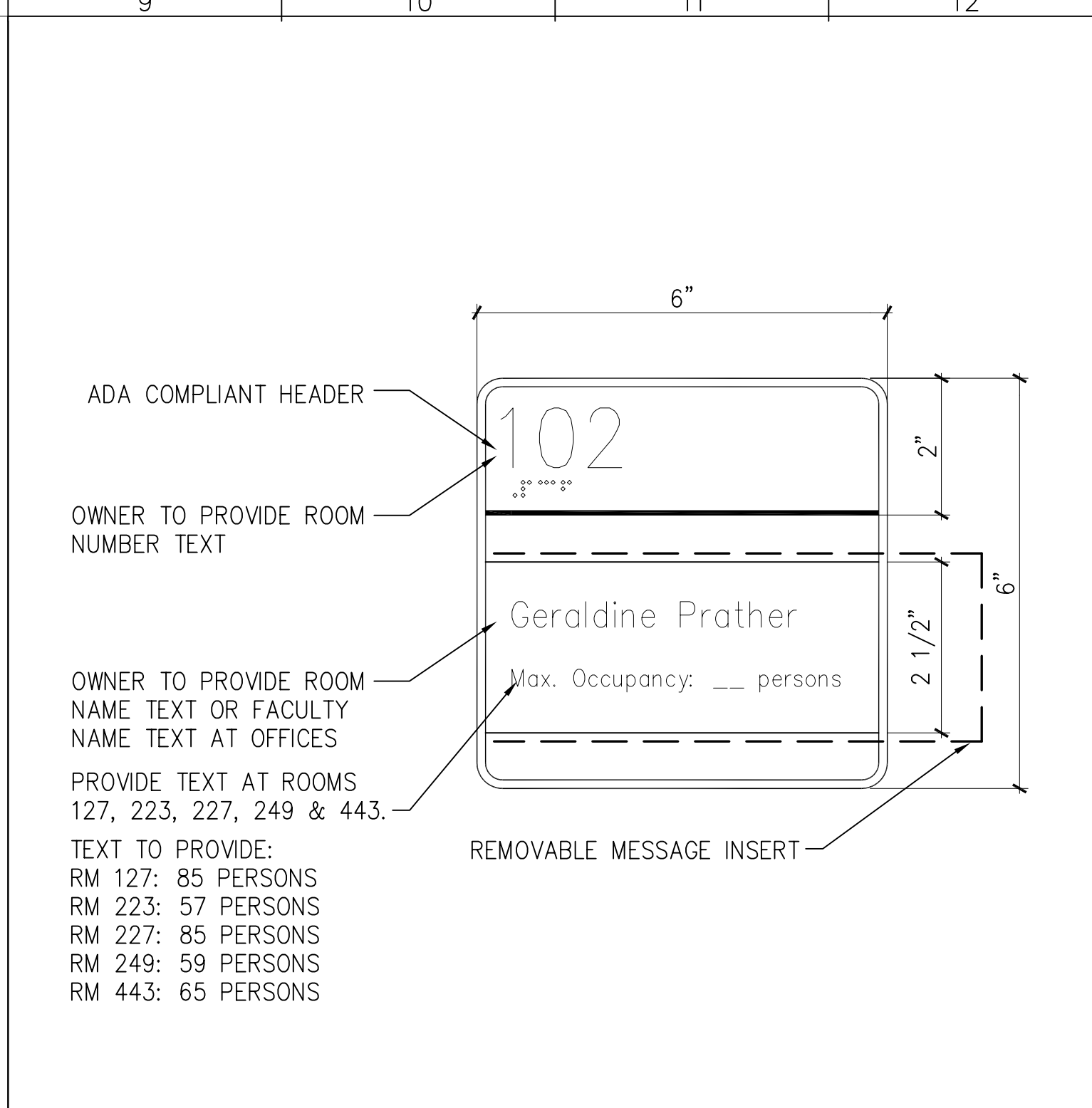
DATE	
DESIGN	
MANAGER	
CHIEF	

**Window Schedule and Details**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

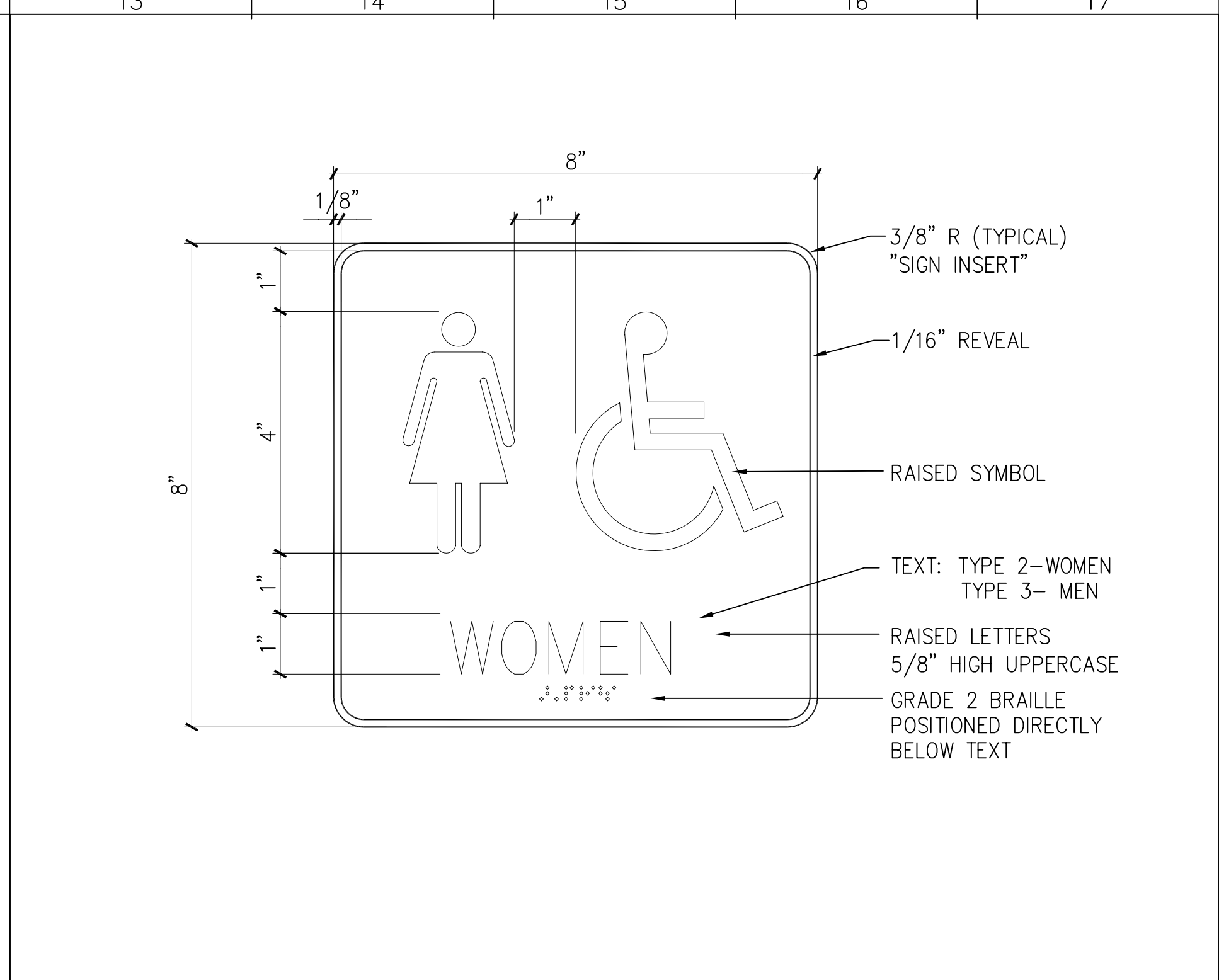
HEALTH SCIENCES BUILDING	
MONTGOMERY COLLEGE	
SILVER SPRING, MARYLAND	
PROJECT # CC-01-MC-97/98-318	
no.	revisions/submissions
	date

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 3/20/02  
 Printed by Eusebio

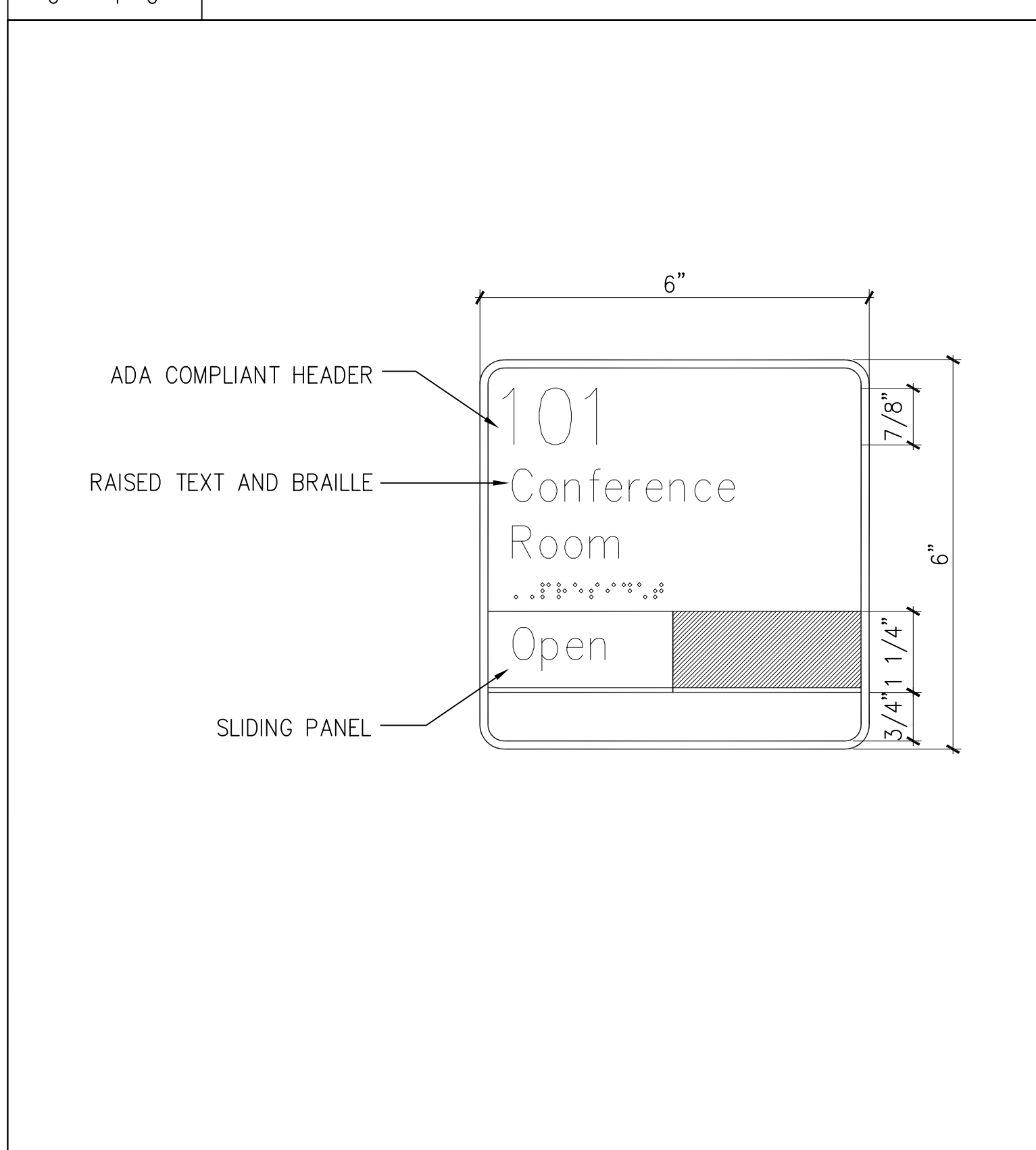
R  
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D  
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B  
A



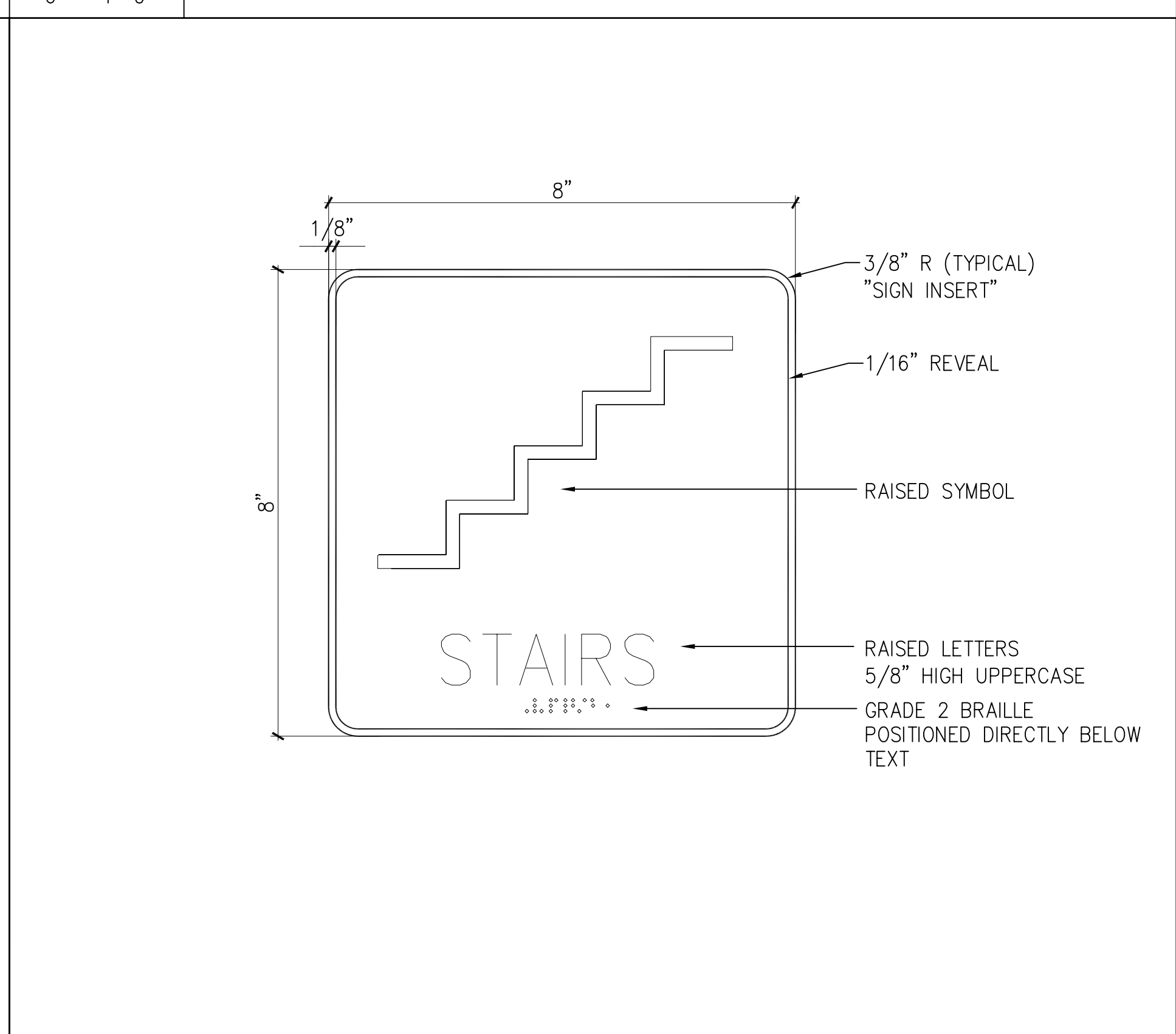
M9 SIGN TYPE 1 (ROOM ID)  
6" = 1'-0"



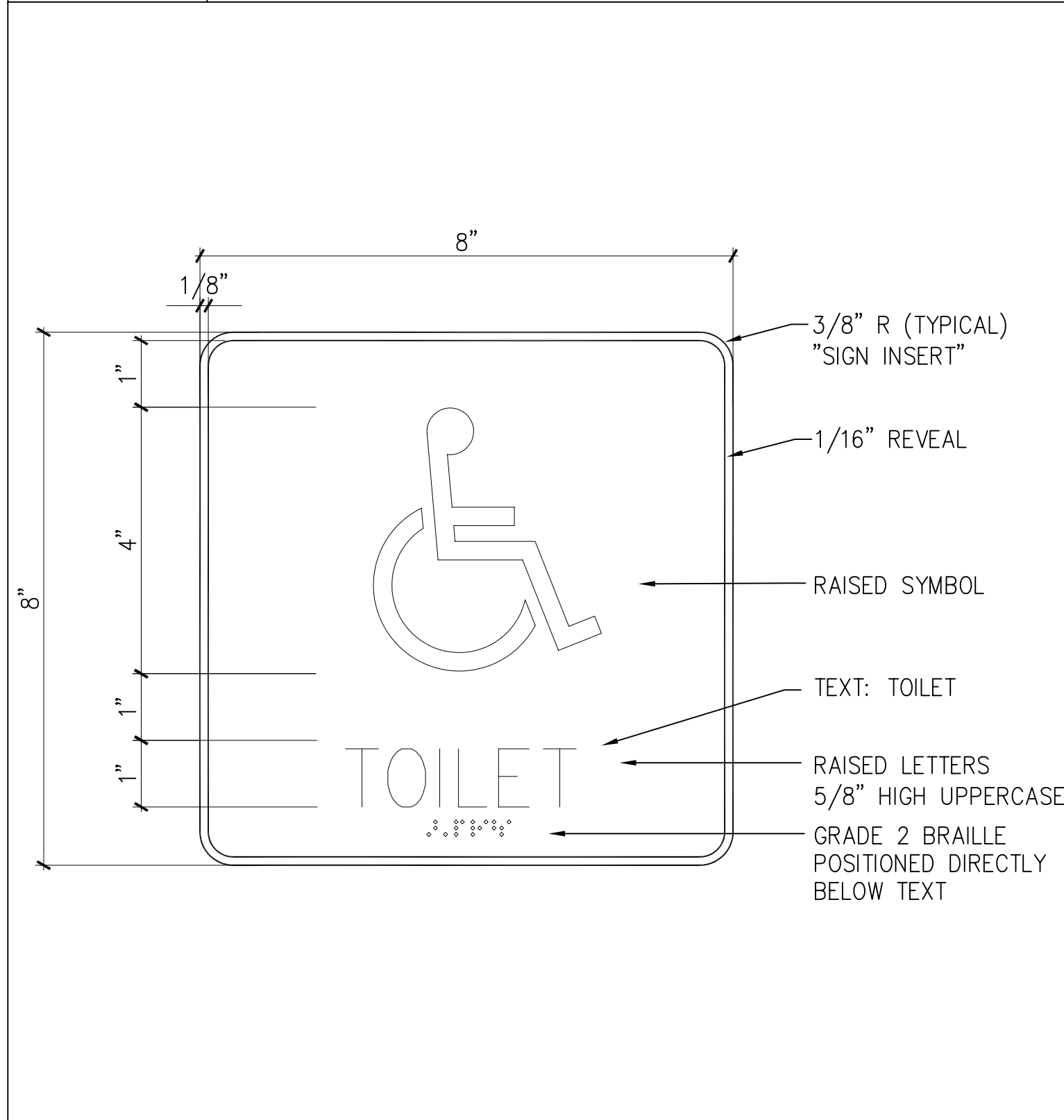
M13 SIGN TYPE 2 & 3 (RESTROOM SIGN)  
6" = 1'-0"



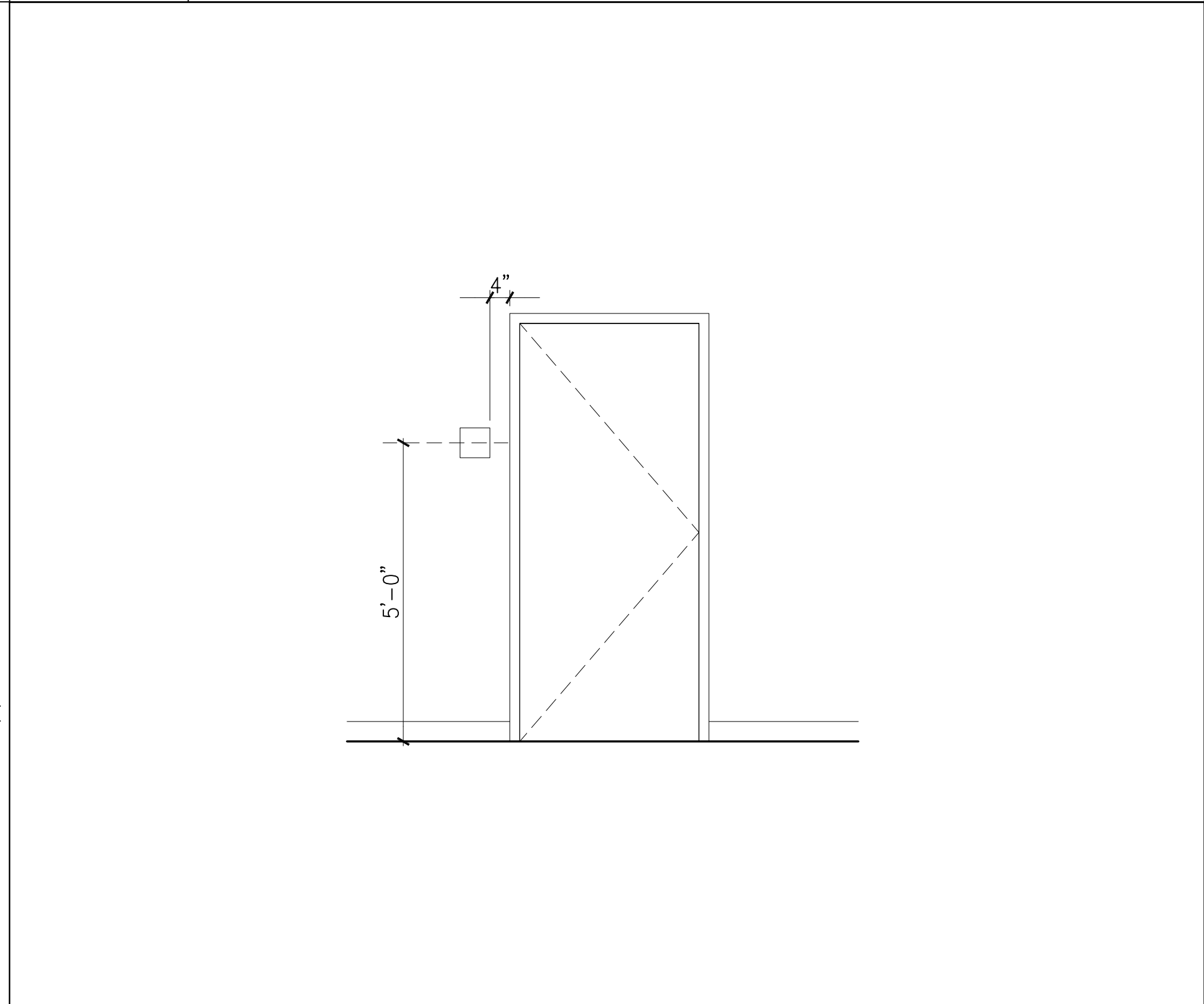
F9 SIGN TYPE 4 (CONFERENCE RM)  
6" = 1'-0"



F13 SIGN TYPE 5 (STAIRS)  
6" = 1'-0"



A9 SIGN TYPE 6 (TOILET ROOM)  
6" = 1'-0"



A13 TYP. SIGNAGE WALL MOUNT (ADJ. TO DOOR)  
1/2" = 1'-0"

- GENERAL NOTES
1. PROVIDE SIGN TYPE 1, UNO.
  2. PROVIDE SIGN TYPE 2 FOR WOMEN'S RESTROOMS.
  3. PROVIDE SIGN TYPE 3 FOR MEN'S RESTROOMS.
  4. PROVIDE SIGN TYPE 4 FOR ROOMS 119, 325, 341, 352, 354, 425, 427 & 437.
  5. PROVIDE SIGN TYPE 5 FOR FOR STAIRS.
  6. PROVIDE SIGN TYPE 6 FOR TOILET ROOMS.

no.	revisions/submissions	date
1	BID ADDENDUM NO. 2	3/13/02

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

DEPARTMENT OF GENERAL SERVICES APPROVAL  
MONTGOMERY COLLEGE APPROVAL

PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

PROJECT NO. 34495.01  
DATE: 2/20/02  
A910  
SHEET X OF XX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AFF	ABOVE FINISHED FLOOR	GAL	GALLONS	NIC	NOT IN CONTRACT
APPROX	APPROXIMATELY	GPH	GALLONS PER HOUR	NO	NUMBER
BHP	BRAKE HORSEPOWER	GPM	GALLONS PER MINUTE	NPLV	NON-STANDARD PART LOAD VALUE
BLDG	BUILDING	GR	GRAINS	NTS	NOT TO SCALE
BTU	BRITISH THERMAL UNIT	HD	HEAD	OA (O/A)	OUTDOOR AIR
CFM	CUBIC FEET PER MINUTE	HORIZ	HORIZONTAL	PD	PRESSURE DROP
CONT	CONTINUATION	HP	HORSEPOWER	PSI	POUNDS PER SQUARE INCH
COP	COEFFICIENT OF PERFORMANCE	HZ	HERTZ (CYCLES PER SECOND)	PSIG	PSI GAUGE
CV	CONSTANT VOLUME	IN	INCHES	RA	RETURN AIR
DB	DECIBEL	KW	KILOWATTS	RH	RELATIVE HUMIDITY
DB	DRY BULB	LAT	LEAVING AIR TEMPERATURE	RLA	RATED LOAD AMPS
DIA	DIAMETER	LBS	POUNDS	RPM	REVOLUTIONS PER MINUTE
DN	DOWN	LF	LINEAR FEET	SA	SUPPLY AIR
DWG	DRAWING	LRA	LOCKED ROTOR AMPS	SP	STATIC PRESSURE
EA	EXHAUST AIR	LWT	LEAVING WATER TEMPERATURE	TD	TEMPERATURE DIFFERENCE
EAT	ENTERING AIR TEMPERATURE	MAX	MAXIMUM	TSTAT	THERMOSTAT
EFF	EFFICIENCY	MBH	THOUSANDS OF BTUS PER HOUR	TYP	TYPICAL
EL	ELEVATION	MIN	MINIMUM	VAV	VARIABLE AIR VOLUME
ESP	EXTERNAL STATIC PRESSURE	MISC	MISCELLANEOUS	VSD	VARIABLE SPEED DRIVE
EWT	ENTERING WATER TEMPERATURE	N.C.	NORMALLY CLOSED	VERT	VERTICAL
FLA	FULL LOAD AMPS	N.O.	NORMALLY OPEN	W/	WITH
FPM	FEET PER MINUTE	N/A	NOT APPLICABLE	WB	WET BULB
FT	FEET	NC	NOISE CRITERIA		

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
AC	AIR CURTAIN	FST	FUEL STORAGE TANK
ACC	AIR COOLED CONDENSER	H	HUMIDIFIER
ACCU	AIR COOLED CONDENSING UNIT	HC	HEATING COIL
ACU	AIR CONDITIONING UNIT	HP	HEAT PUMP
AFCV	AIR FLOW CONTROL VALVE	HX	HEAT EXCHANGER
AFMS	AIR FLOW MEASURING STATION	P	PUMP
AHU	AIR HANDLING UNIT	PF	PREFILTER
AS	AIR SEPARATOR	PRV	PRESSURE REDUCING VALVE
B	BOILER	RF	RETURN FAN
BFP	BOILER FEED PUMP	RP	RADIANT PANEL
CC	COOLING COIL	SA	SOUND ATTENUATOR
CD	CEILING DIFFUSER	SF	SUPPLY FAN
CH	CHILLER	SFT	STEAM FLASH TANK
CP	CONDENSATE PUMP	SRV	SAFETY RELIEF VALVE
CT	COOLING TOWER	ST	STEAM TRAP
DC	DRY COOLER	TG	TRANSFER GRILLE
EF	EXHAUST FAN	UH	UNIT HEATER
EJ	EXPANSION JOINT		
ER	EXHAUST REGISTER		
ET	EXPANSION TANK		
FCU	FAN COIL UNIT		
FF	FINAL FILTER		
FM	FLOW METER		

### HVAC DRAWING LIST

H001	HVAC SYMBOLS & ABBREVIATIONS
H108	FIRST FLOOR PLAN - DUCTWORK
H101	FIRST FLOOR PLAN - DUCTWORK
H102	SECOND FLOOR PLAN - DUCTWORK
H103	THIRD FLOOR PLAN - DUCTWORK
H104	FOURTH FLOOR PLAN - DUCTWORK
H105	PENTHOUSE/ROOF PLAN - DUCTWORK
H208	BASEMENT FLOOR PLAN - PIPING
H201	FIRST FLOOR PLAN - PIPING
H202	SECOND FLOOR PLAN - PIPING
H203	THIRD FLOOR PLAN - PIPING
H204	FOURTH FLOOR PLAN - PIPING
H205	PENTHOUSE/ROOF PLAN - PIPING
H301	BASEMENT MECHANICAL ROOM
H302	PENTHOUSE MECHANICAL ROOM
H303	HVAC DUCT RISERS
H401	MECHANICAL FLOW DIAGRAMS
H402	MECHANICAL FLOW DIAGRAMS
H501	MECHANICAL DETAILS
H502	MECHANICAL DETAILS
H503	MECHANICAL DETAILS
H504	MECHANICAL DETAILS
H601	HVAC CONTROL DIAGRAMS
H701	HVAC EQUIPMENT SCHEDULES
H702	HVAC EQUIPMENT SCHEDULES

- SYMBOL AND ABBREVIATION LISTS ARE COMPOSITE. SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT, EXCEPT WHEN SPECIFICALLY DIMENSIONED OR DETAILED. THE CONTRACTOR SHALL MAKE REASONABLE MODIFICATIONS IN ARRANGEMENT REQUIRED FOR PROPER EXECUTION OF THE WORK AND TO AVOID CONFLICTS WITH EXISTING CONSTRUCTION, PIPING, ELECTRICAL WORK, DUCTWORK, EQUIPMENT, ETC. AT NO ADDITIONAL COST TO THE OWNER.
- REFER TO THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR CEILING HEIGHTS AND TYPES, EQUIPMENT AND FURNITURE LAYOUTS, AND STRUCTURAL SLAB, COLUMN, AND BEAM DIMENSIONS AND LOCATIONS.
- COORDINATED SHOP DRAWINGS MUST BE REVIEWED AND APPROVED PRIOR TO INSTALLATION OF ANY HVAC PIPING, DUCTWORK, OR EQUIPMENT IN ORDER TO ASSURE PROPER INSTALLATION AND ACCESSIBILITY OF ALL SYSTEMS AND EQUIPMENT.
- COORDINATE INSTALLATION OF MECHANICAL WORK WITH WORK OF OTHER TRADES TO ENSURE THAT ADEQUATE CLEARANCES ARE PROVIDED. LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED IN A FULLY ACCESSIBLE POSITION.
- IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO DELEGATE ALL WORK BETWEEN SUBCONTRACTORS. REFERENCES TO VARIOUS TRADES IN THESE DOCUMENTS ARE ONLY SUGGESTED DIVISIONS OF RESPONSIBILITY BASED ON INDUSTRY STANDARD PRACTICE.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE CONTRACT SPECIFICATIONS, AND REVIEWED SHOP DRAWINGS.
- MAINTAIN ALL MANUFACTURER'S RECOMMENDED CLEARANCES AROUND EQUIPMENT.
- VERIFY LOCATIONS AND SIZES OF PIPING AND DUCTWORK CONNECTIONS TO NEW EQUIPMENT.
- IN GENERAL, ALL PIPING AND DUCTWORK SHALL BE RUN CONCEALED ABOVE SUSPENDED CEILINGS OR WITHIN SHAFTS AND CHASES, UNLESS SPECIFICALLY NOTED OTHERWISE.
- CEILING ACCESS IS REQUIRED AT ALL TERMINAL UNITS, REHEAT COILS, VALVES, DAMPERS AND OTHER ITEMS WHICH REQUIRED ROUTINE INSPECTION OR MAINTENANCE WHICH ARE LOCATED ABOVE SUSPENDED CEILINGS. COORDINATE LOCATION OF ACCESS PANELS REQUIRED IN GYPSUM BOARD CEILINGS WITH OTHER TRADES.
- PROVIDE SLEEVED SEALABLE OPENINGS WHERE PIPES AND DUCTS ARE REQUIRED TO RUN THROUGH FOUNDATIONS, SLABS, WALLS, BEAMS OR ROOFS.
- PROVIDE DUCT ACCESS PANELS FOR ALL DUCT MOUNTED EQUIPMENT SUCH AS HEATING COILS AND DAMPERS.
- TEMPERATURE SENSORS LOCATED ON OUTSIDE WALLS SHALL BE MOUNTED ON INSULATED BACKING MATERIAL TO MINIMIZE WALL EFFECTS.
- CONSTRUCT ALL HVAC DUCTWORK AND FITTINGS IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTIONS STANDARDS FOR THE APPROPRIATE PRESSURE CLASSIFICATION OF DUCTWORK.
- PROVIDE ALL TRANSITIONS REQUIRED FOR INSTALLATION OF DUCTWORK, DUCT ACCESSORIES AND EQUIPMENT.
- ALL DUCT AND PLENUM SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
- USE FLEXIBLE DUCT ONLY FOR CONNECTIONS BETWEEN DIFFUSERS AND DUCT TRUNKS. LIMIT FLEXIBLE DUCT LENGTH TO EIGHT FEET. DO NOT EXTEND FLEXIBLE DUCT THROUGH WALLS OR SLABS.
- ALL DUCT LINING SHALL BE 1-INCH THICK UNLESS OTHERWISE NOTED.
- LINE DUCTWORK UPSTREAM OF RELIEF AND EXHAUST FANS FOR A LENGTH OF 25 FEET FROM THE INLET OF THE FAN.
- LINE ALL DUCTWORK DOWNSTREAM OF AIR TERMINAL UNITS.
- BLANK OFF ALL UNUSED PORTIONS OF ARCHITECTURAL LOUVERS WITH SHEET METAL.
- BLANK OFF ALL USED PORTIONS OF LINEAR SLOT DIFFUSERS.
- NOTIFY THE BUILDING OWNER'S REPRESENTATIVE IN WRITING AT LEAST TWO WEEKS IN ADVANCE OF ANY SHUTDOWN OF WATER, HVAC, ELECTRICAL SERVICE, OR ANY OTHER UTILITY. COORDINATE CLOSELY WITH SUBCONTRACTORS TO RESTRICT TIME OF OUTAGE TO A MINIMUM.
- THERMOSTAT MOUNTING HEIGHT TO BE 48-INCHES ABOVE FINISHED FLOOR.

### L1 HVAC ABBREVIATIONS

### L8 HVAC EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CHILLED WATER RETURN		2-WAY CONTROL VALVE		PIPE DROP
	CHILLED WATER SUPPLY		3-WAY CONTROL VALVE		PIPE GUIDE
	CONDENSER WATER RETURN		AIR VENT (AUTOMATIC)		PIPE RISE
	CONDENSER WATER SUPPLY		AIR VENT (MANUAL)		PRESSURE GAUGE
	DRAIN PIPE (INDIRECT)		AUTOMATIC FLOW SETTING VALVE		PRESSURE REDUCING VALVE
	GLYCOL WATER RETURN		BALANCING VALVE		PRESSURE SENSOR
	GLYCOL WATER SUPPLY		BALL VALVE		PRESSURE SWITCH
	HOT WATER RETURN		BUTTERFLY VALVE		REDUCER
	HOT WATER SUPPLY		CHECK VALVE		RELIEF VALVE
	DOMESTIC MAKE-UP WATER		DIRECTION OF PIPE PITCH		SOLENOID VALVE
	REFRIGERANT HOT GAS		EXPANSION JOINT		STRAINER
	REFRIGERANT LIQUID		FLEXIBLE CONNECTION		STRAINER (WITH VALVE)
	REFRIGERANT SUCTION		FLOW DIRECTION		TEMPERATURE SENSOR
	REFRIGERANT VENT		FLOW MEASURING DEVICE		THERMOMETER IN WELL
	VENT		FLOW SENSOR		UNION
			FLOW SWITCH		VALVE IN RISER
			PIPE ANCHOR		
			PIPE CAP		
			PIPE CONNECTION - ABOVE		
			PIPE CONNECTION - BELOW		
			PIPE CONTINUES		

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	DUCTWORK		DUCT SECTION, POSITIVE PRESSURE
	RECTANGULAR DUCTWORK		DUCT SECTION, NEGATIVE PRESSURE
	FLAT OVAL DUCTWORK		ACCESS DOORS, VERTICAL OR HORIZONTAL
	ROUND DUCTWORK		ACOUSTICAL LINING, SEE SPECIFICATIONS FOR LINING DESCRIPTION
			ELBOW WITH TURNING VANES
			FLEXIBLE CONNECTION
			FLEXIBLE DUCT
			STANDARD BRANCH
			TRANSITION
			AUTOMATIC DAMPER
			BACKDRAFT DAMPER
			COMBINATION SMOKE AND FIRE DAMPER
			FIRE DAMPER
			MANUAL DAMPER
			SMOKE DAMPER

### H13 GENERAL NOTES

SYMBOL	DESCRIPTION
	SMOKE DETECTOR
	HUMIDISTAT
	THERMOSTAT
	DOOR LOUVER (REFER TO ARCHITECTURAL PLANS)
	DOOR UNDERCUT (REFER TO ARCHITECTURAL PLANS)
	DIFFUSER/REGISTER/GRILLE TAG
	DUCT RISER
	PIPE RISER
	SECTION MARKER
	DETAIL MARKER

no.	revisions/submissions	date

### A1 HVAC PIPING SYMBOLS

### A9 HVAC DUCTWORK SYMBOLS

### A13 GENERAL HVAC SYMBOLS

PROJECT NO. 14495.01  
DATE: 2/20/02

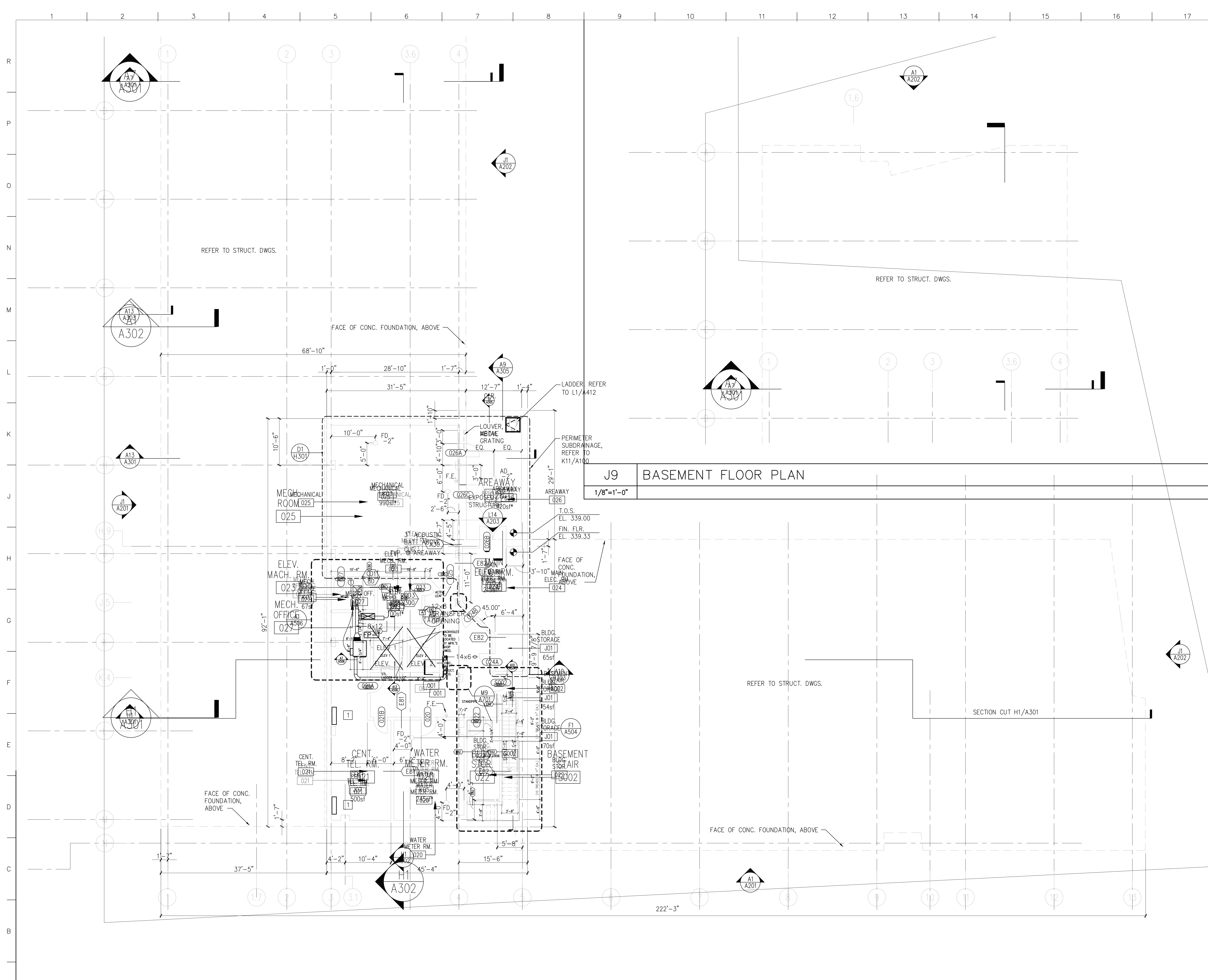
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

HVAC Symbols and Abbreviations  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
DATE

SHEET 1 OF 25



**KEY NOTES**

- 1. PROVIDE SPLIT SYSTEM A/C UNIT WITH AIR COOLED CONDENSER, TOTAL CAPACITY 18.0 MBH, SENSIBLE CAPACITY 16.1 MBH. BASIS OF DESIGN: LIEBERT DATAMATE MODEL DME020E. FIELD ROUTE REFRIGERANT LINES FROM INDOOR UNIT TO OUTDOOR UNIT IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

**GENERAL NOTES**

- 1. REFER TO DRAWING M001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

**J9 BASEMENT FLOOR PLAN**  
1/8"=1'-0"

**A1 BASEMENT FLOOR PLAN**  
1/8"=1'-0"

no.	revisions/submissions	date

**BASEMENT FLOOR PLAN**

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

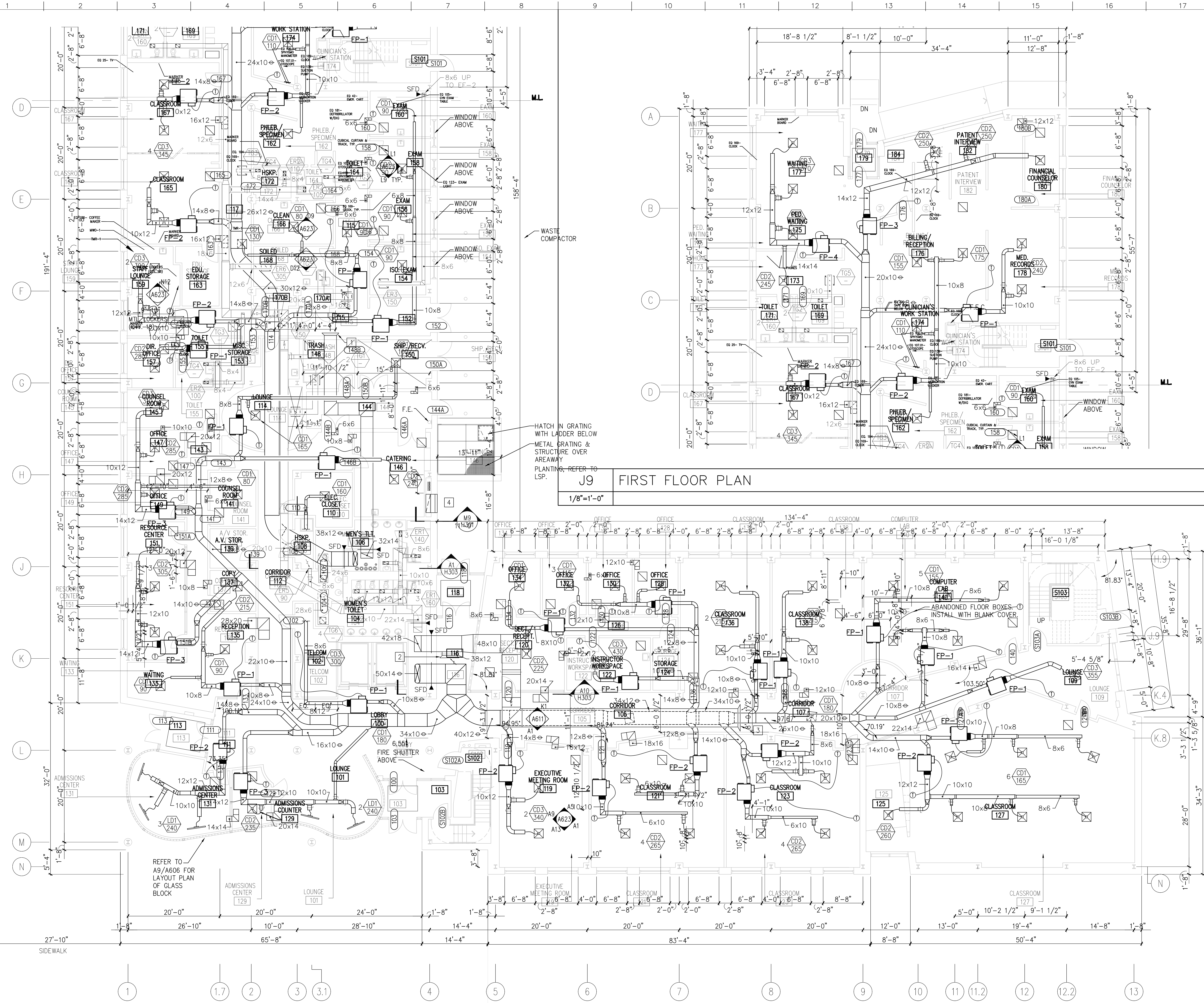
Basement Floor Plan -  
 Ductwork  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**H10B**  
 SHEET 2 OF 25

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE  
 TITLE DATE

MONTGOMERY COLLEGE APPROVAL  
 DATE

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**J9 FIRST FLOOR PLAN**  
1/8"=1'-0"

**KEY NOTES**

- 1 PROVIDE 44x18 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 2 PROVIDE 50x16 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 3 PROVIDE 70x12 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 4 4' x 2' INTAKE LOUVER MIN. 50% FREE AREA 24" DEEP INSULATED PLENUM

**GENERAL NOTES**

1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

no.	revisions/submissions	date

**FIRST FLOOR PLAN**  
0 1' 2' 4' 8' 16'  
1/8"=1'-0"

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

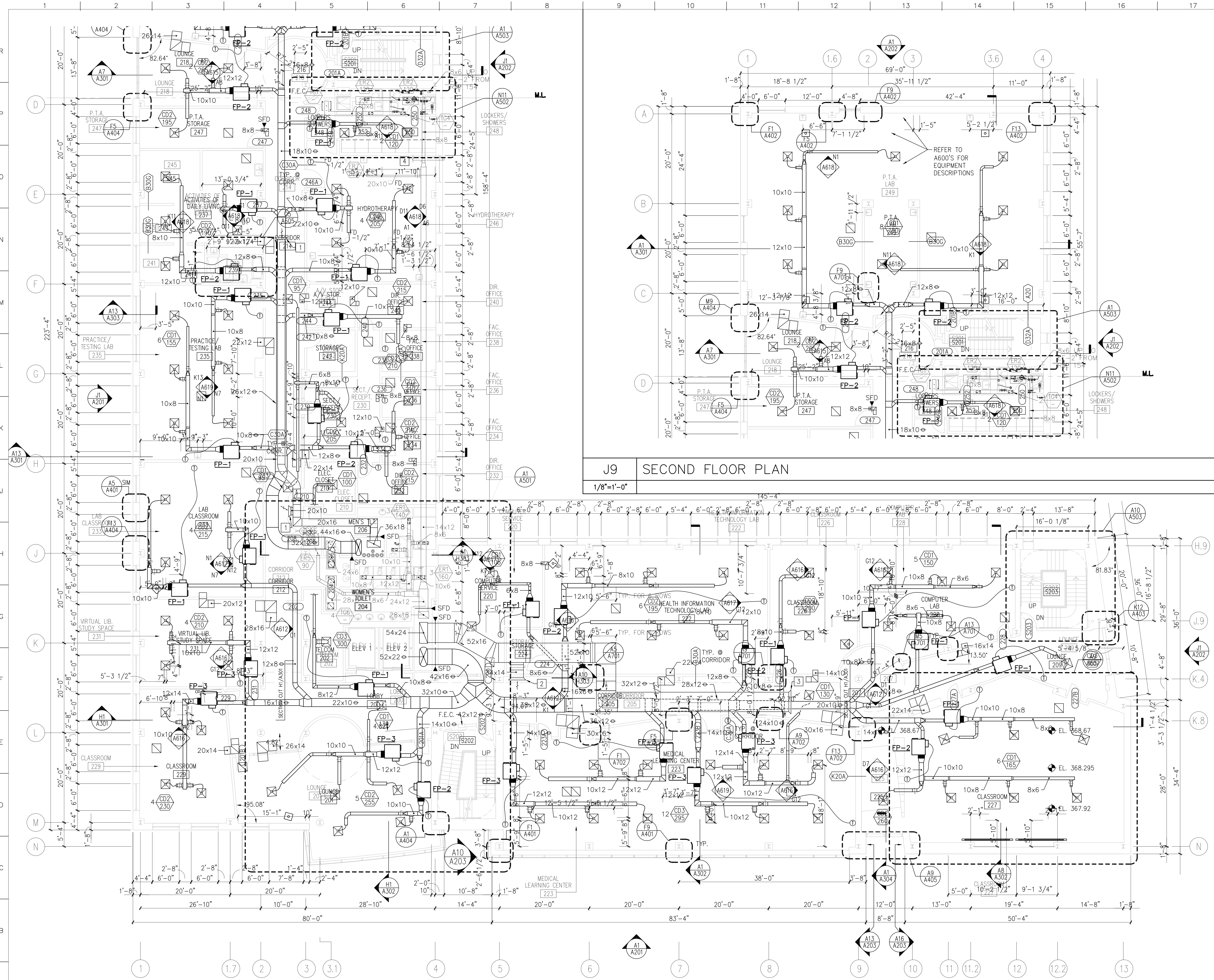
First Floor Plan -  
 Ductwork  
 MONK  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

PROJECT NO. H101  
 DATE: 2/20/02  
 SHEET 3 OF 25

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN  
 TITLE  
 DATE

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE

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**KEY NOTES**

- 1 PROVIDE 30x10 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 2 PROVIDE 46x18 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 3 PROVIDE 64x10 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 4 PROVIDE EXHAUST DUCT FOR TWO DRYER VENTS. TERMINATE ON OUTSIDE OF BUILDING AND PROVIDE WEATHER CAP AND BACKDRAFT DAMPER.

**GENERAL NOTES**

1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

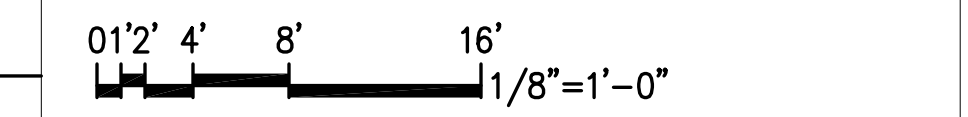
**J9 SECOND FLOOR PLAN**

1/8"=1'-0"

**A1 SECOND FLOOR PLAN**

1/8"=1'-0"

**SECOND FLOOR PLAN**



no.	revisions/submissions	date

PROJECT NO. 134495.01  
 DATE: 2/20/02  
**H102**  
 SHEET 4 OF 25

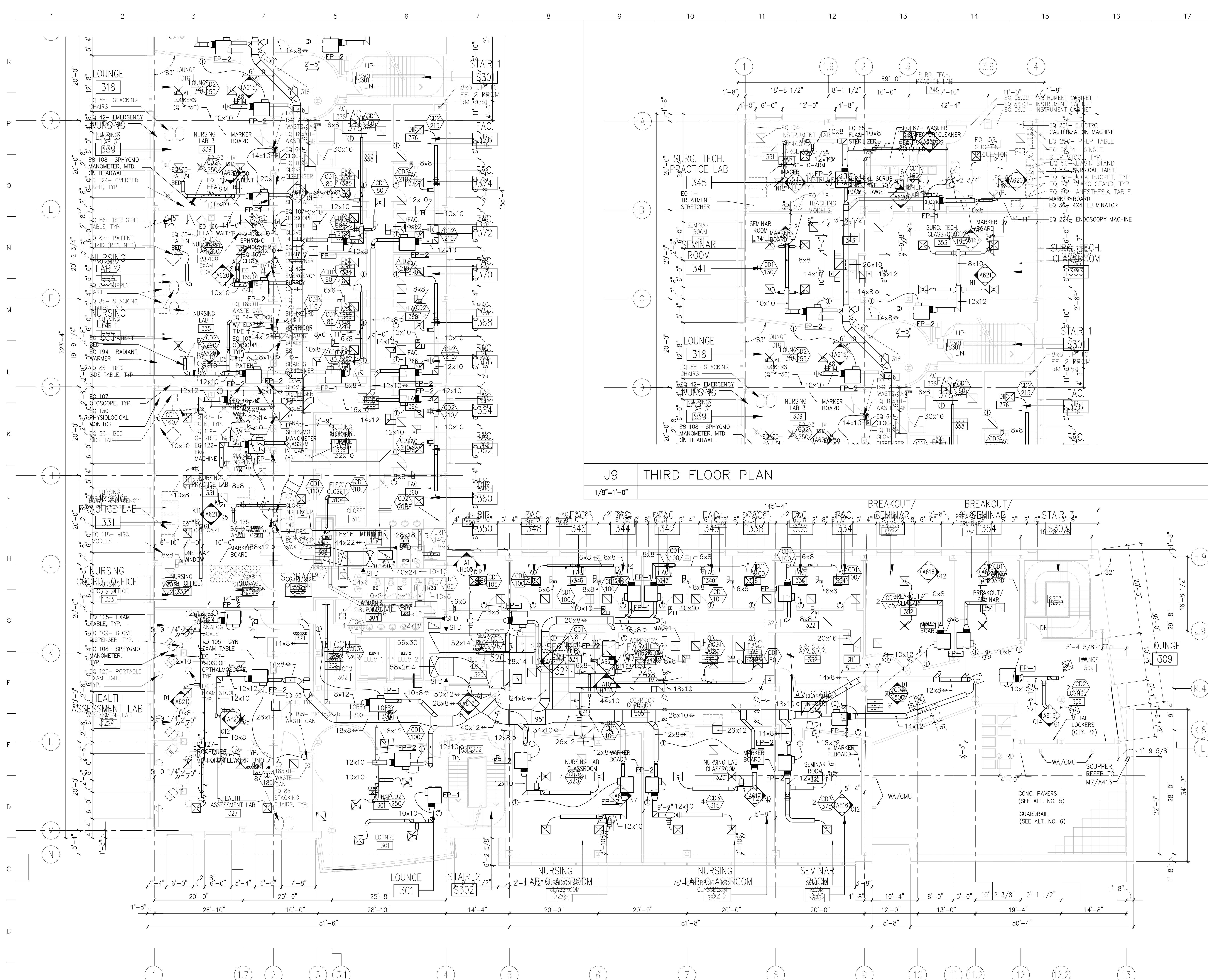
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

Second Floor Plan  
 — Ductwork  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF — PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE  
 DATE

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**J9 THIRD FLOOR PLAN**  
1/8"=1'-0"

- KEY NOTES**
- 1 PROVIDE 44x10 BELLMOUTH OPENING WITH WIRE MESH SCREEN
  - 2 PROVIDE 30x16 BELLMOUTH OPENING WITH WIRE MESH SCREEN
  - 3 PROVIDE 40x18 BELLMOUTH OPENING WITH WIRE MESH SCREEN
  - 4 PROVIDE 56x10 BELLMOUTH OPENING WITH WIRE MESH SCREEN

**GENERAL NOTES**

1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

**A1 THIRD FLOOR PLAN**  
1/8"=1'-0"

**THIRD FLOOR PLAN**

01' 2' 4' 8' 16'  
1/8"=1'-0"

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Third Floor Plan -  
Ductwork

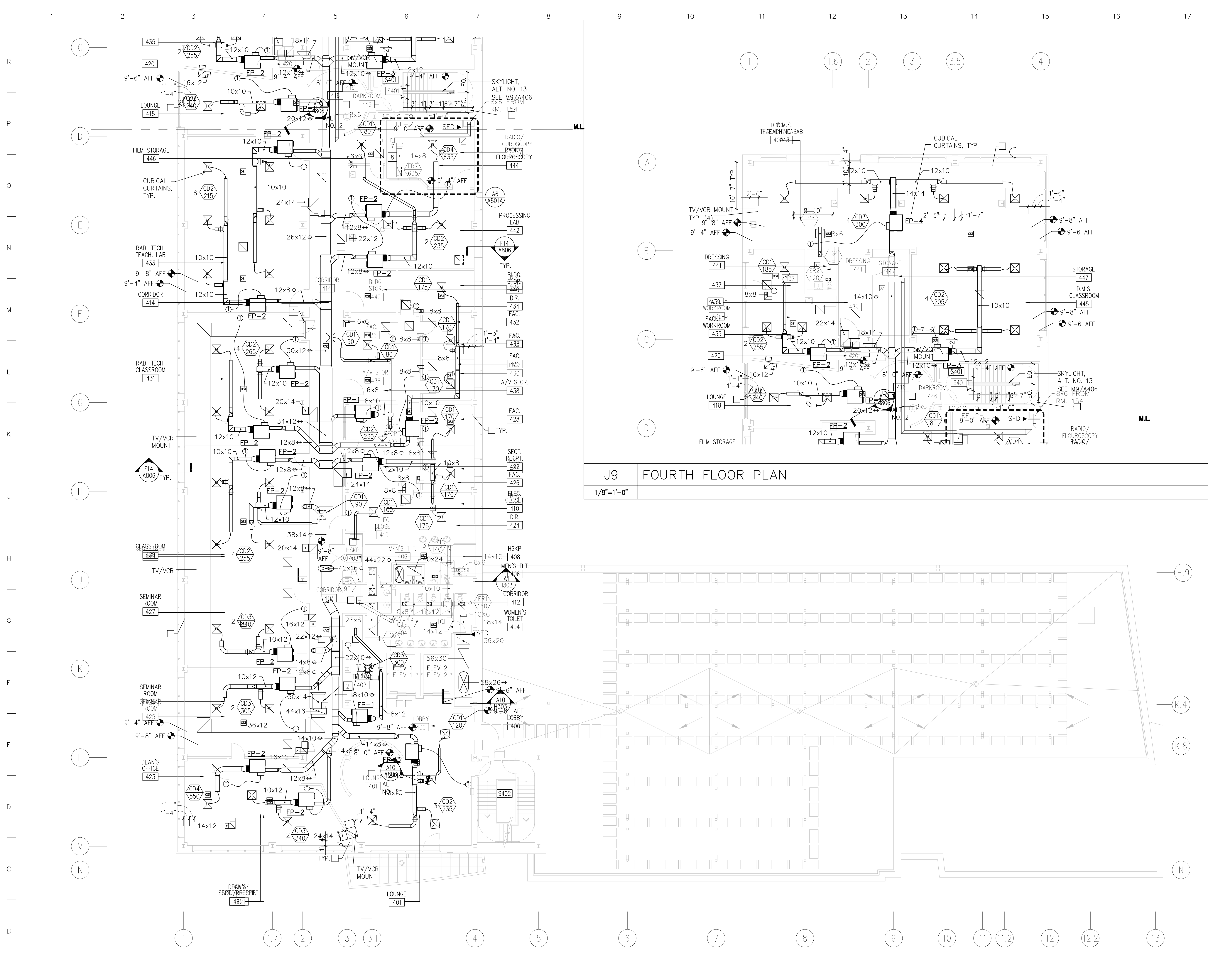
PROJECT NO. 134495.01  
DATE: 2/20/02  
H103

DEPARTMENT OF GENERAL SERVICES  
APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE  
APPROVAL

SHEET 5 OF 25





**KEY NOTES**

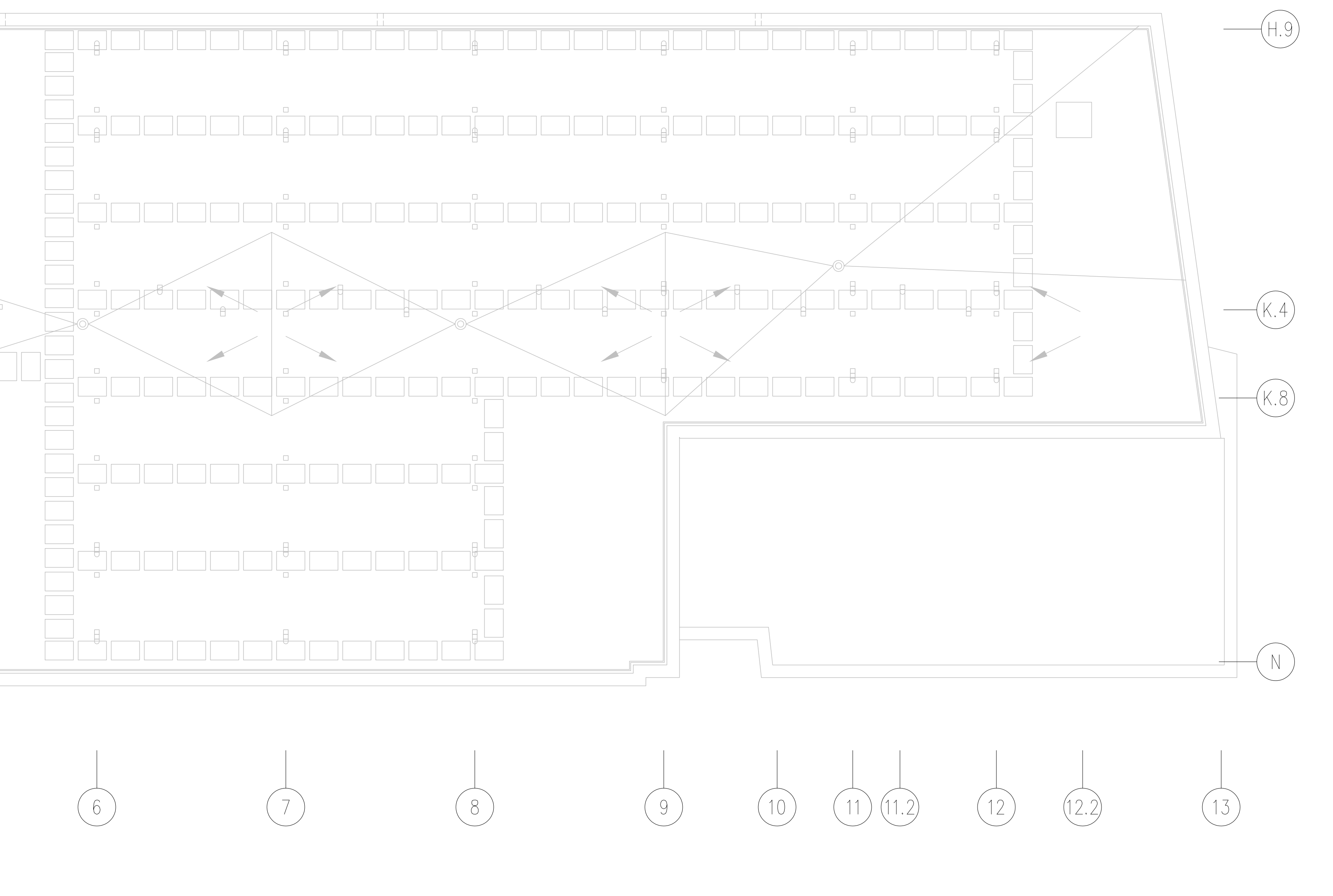
- 1 PROVIDE 48x16 BELLMOUTH OPENING WITH WIRE MESH SCREEN
- 2 PROVIDE 42x16 BELLMOUTH OPENING WITH WIRE MESH SCREEN

**GENERAL NOTES**

- 1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

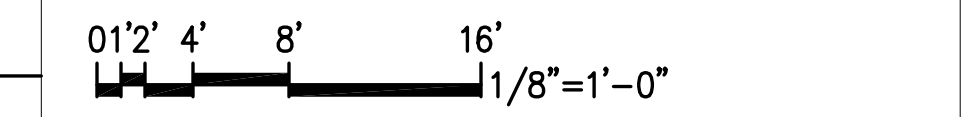
**J9 FOURTH FLOOR PLAN**

1/8"=1'-0"



no.	revisions/submissions	date

**FOURTH FLOOR PLAN**



**A1 FOURTH FLOOR PLAN**

1/8"=1'-0"

**Fourth Floor Plan - Ductwork**

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

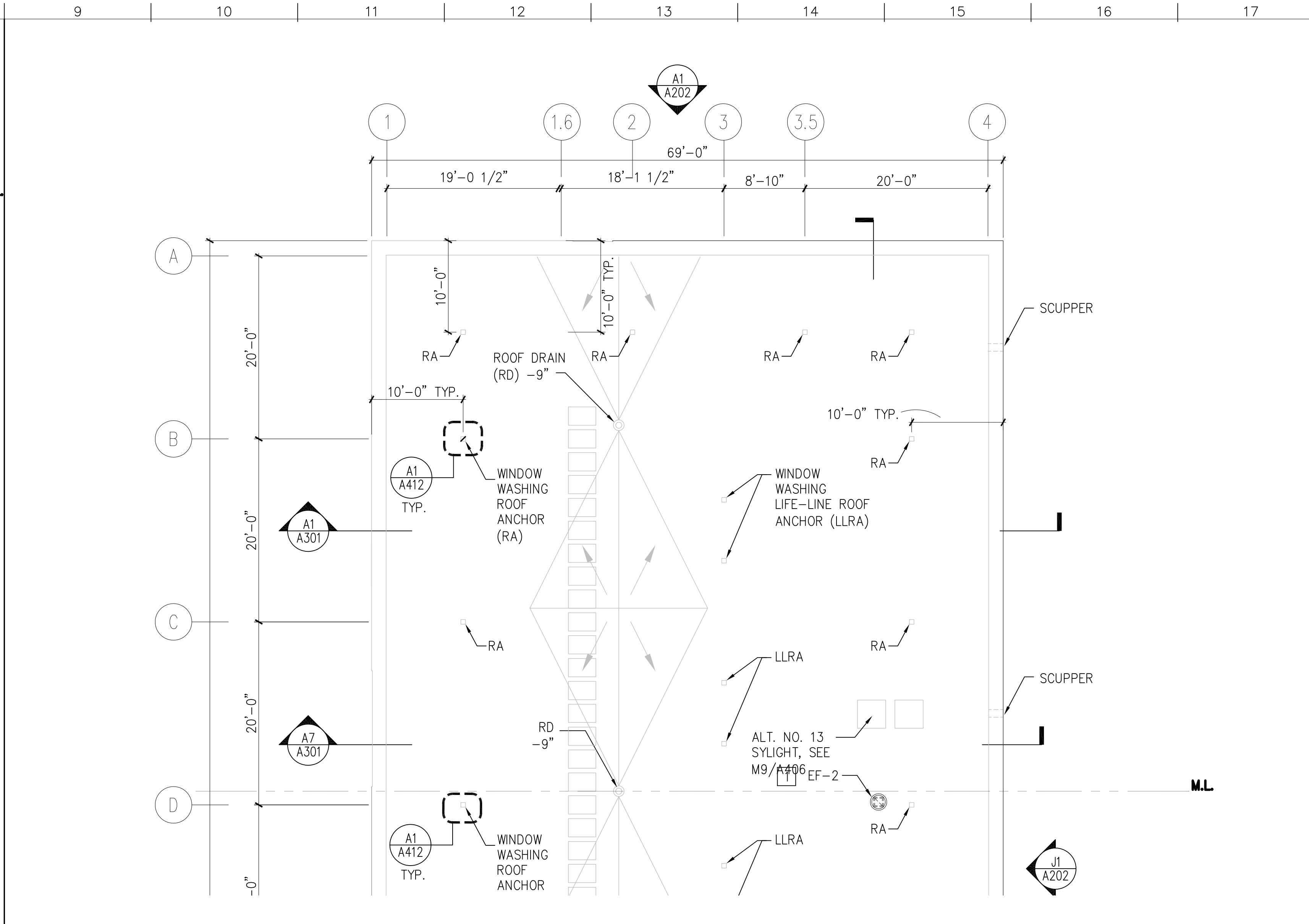
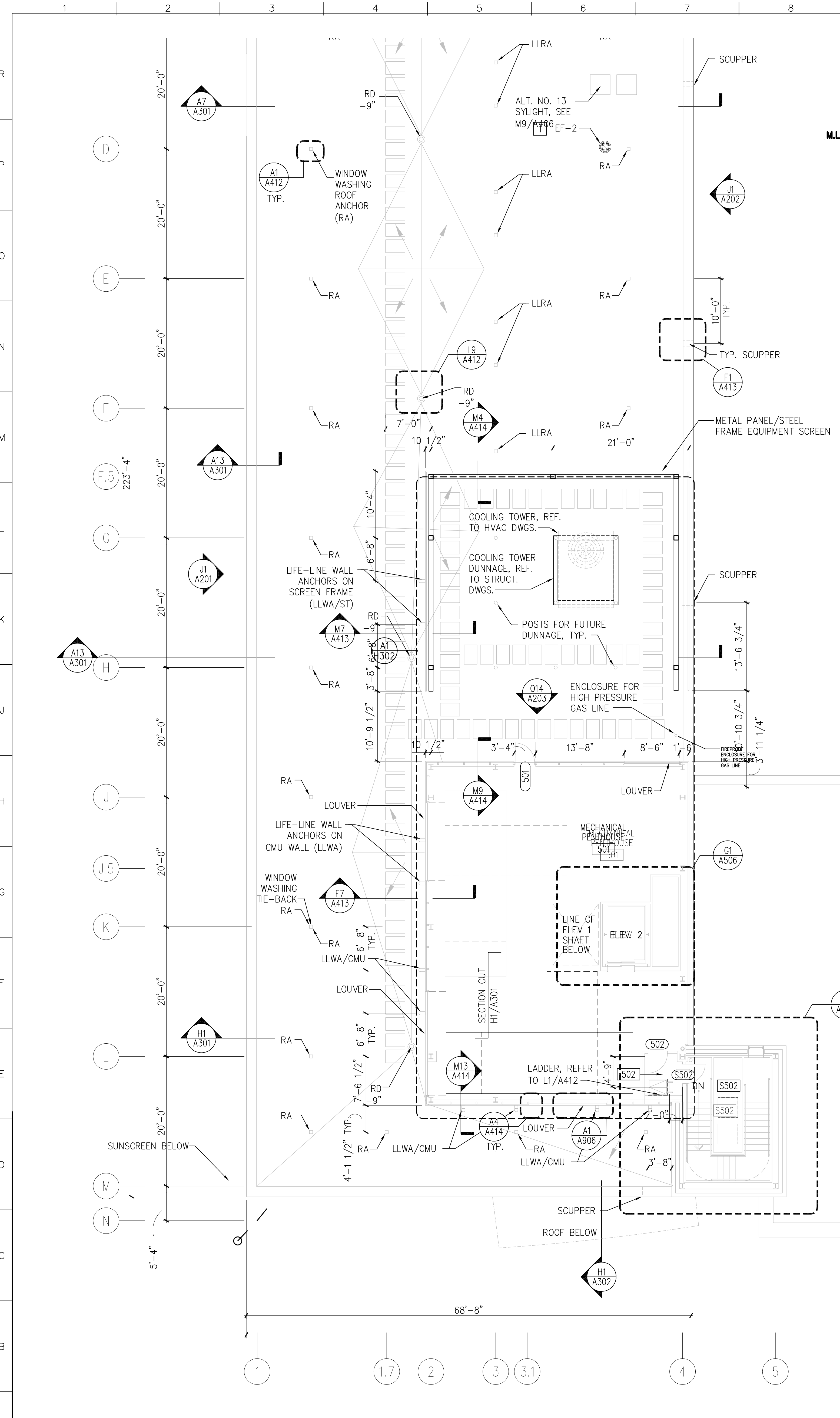
PROJECT # CC-01-MC-97/98-318

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

PROJECT NO. 4449501  
DATE: 2/20/02  
**H104**  
SHEET 6 OF 25

MONTGOMERY COLLEGE APPROVAL	DATE
DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE
PROJECT MANAGER	DATE
CHIEF - PROJ. MGT. & DESIGN	DATE
TITLE	DATE



J9 PENTHOUSE/ROOF PLAN  
1/8"=1'-0"

KEY NOTES

- 1 MOUNT EF-2 USING MANUFACTURERS ROOF CURB

GENERAL NOTES

- 1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

A1 PENTHOUSE/ROOF PLAN  
1/8"=1'-0"

no.	revisions/submissions	date

PENTHOUSE/ROOF PLAN

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

Penthouse/Roof Plan  
Ductwork  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL

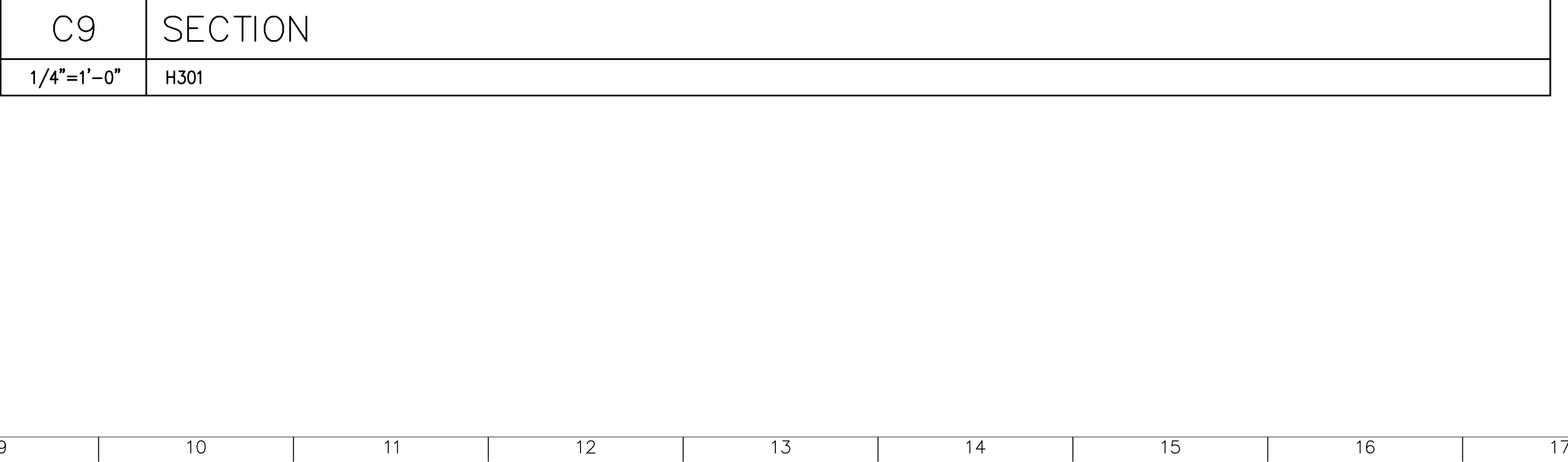
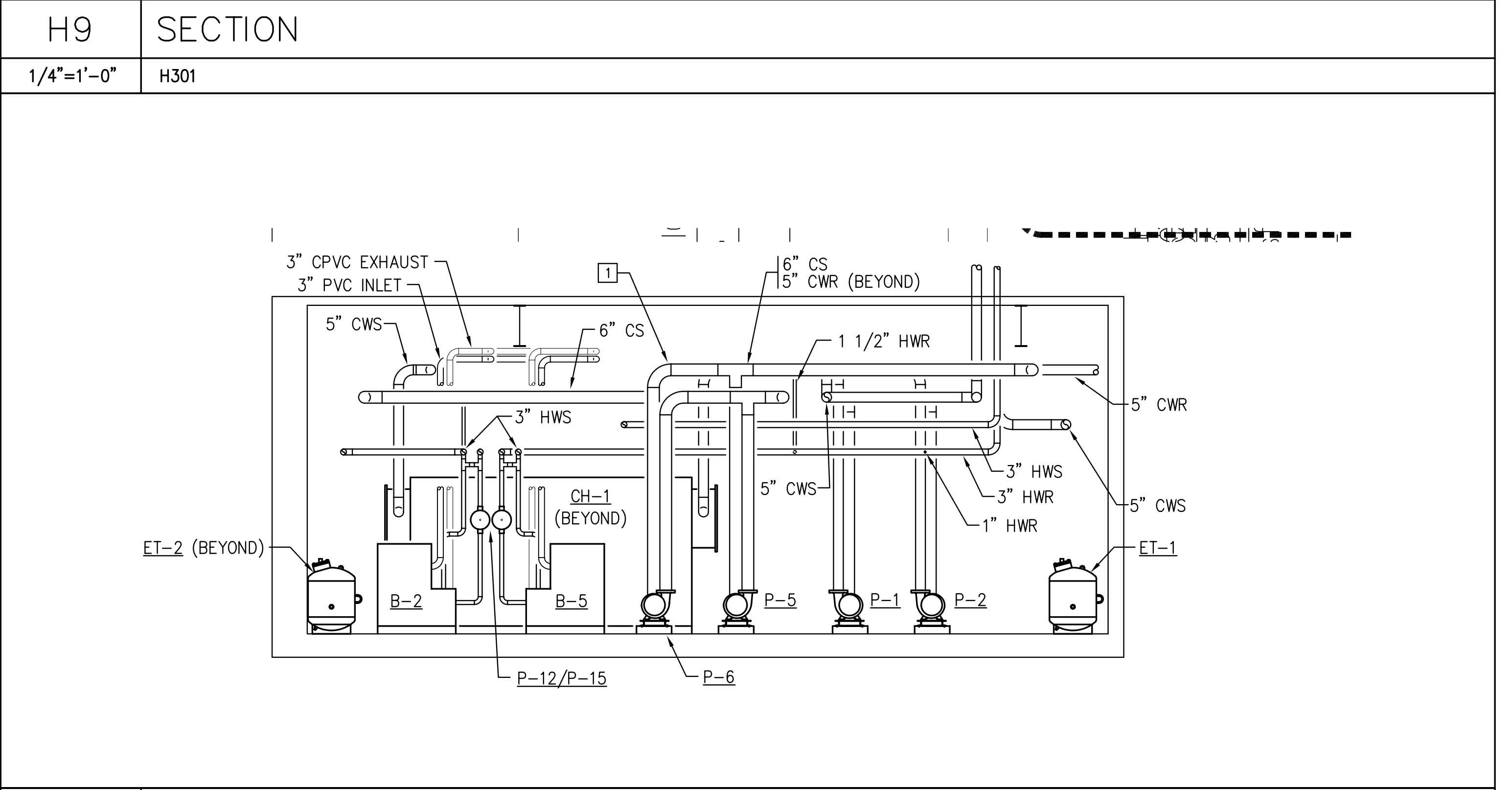
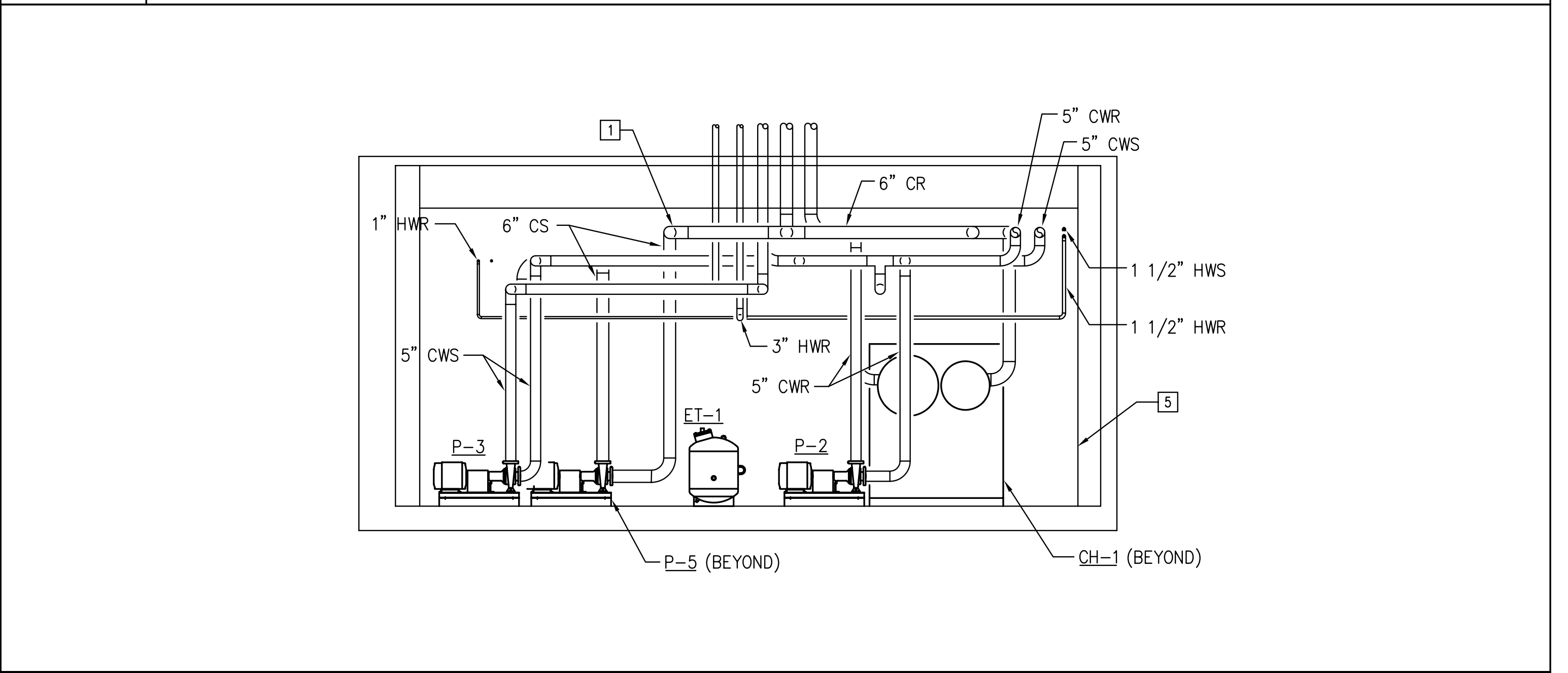
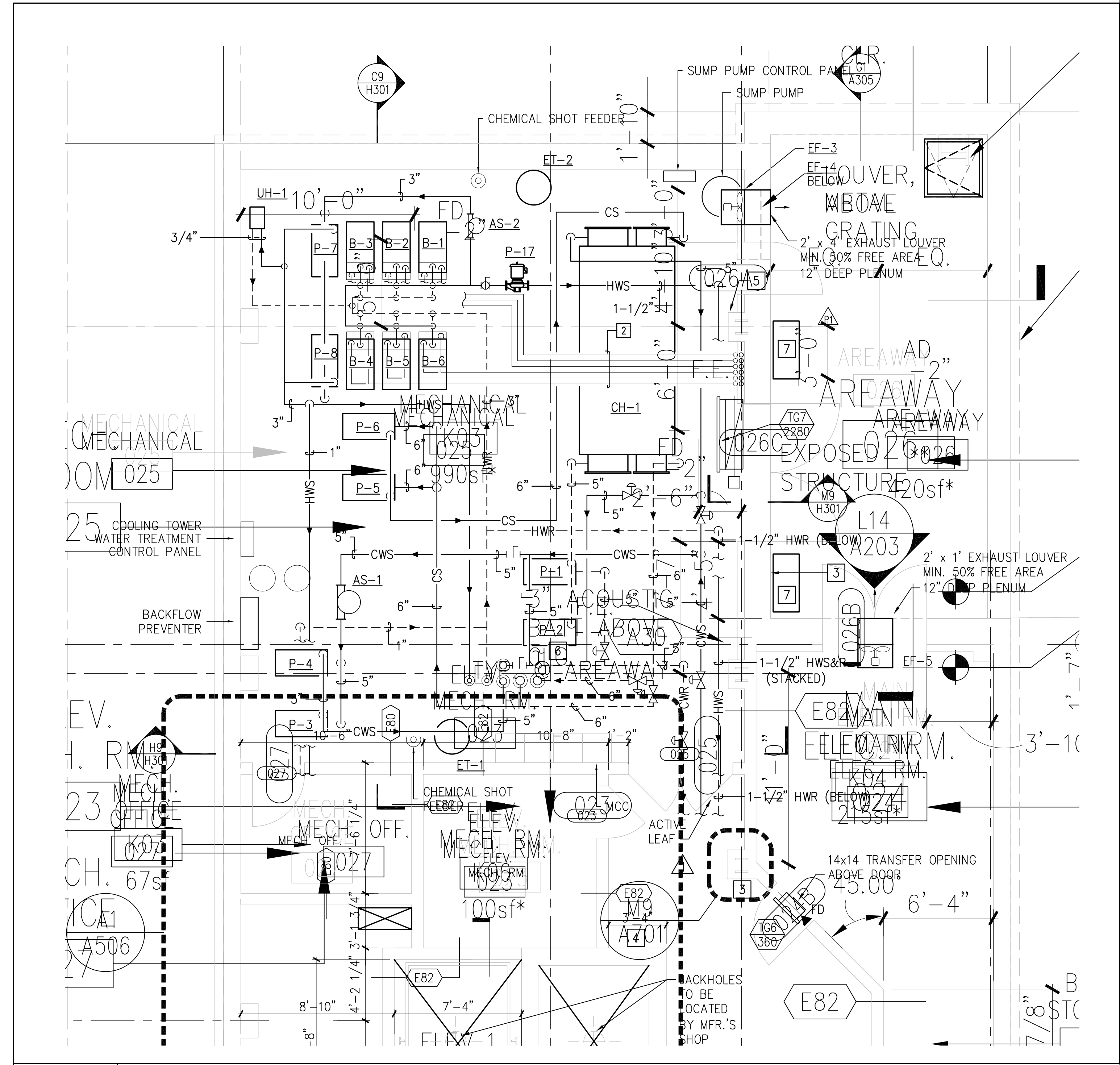
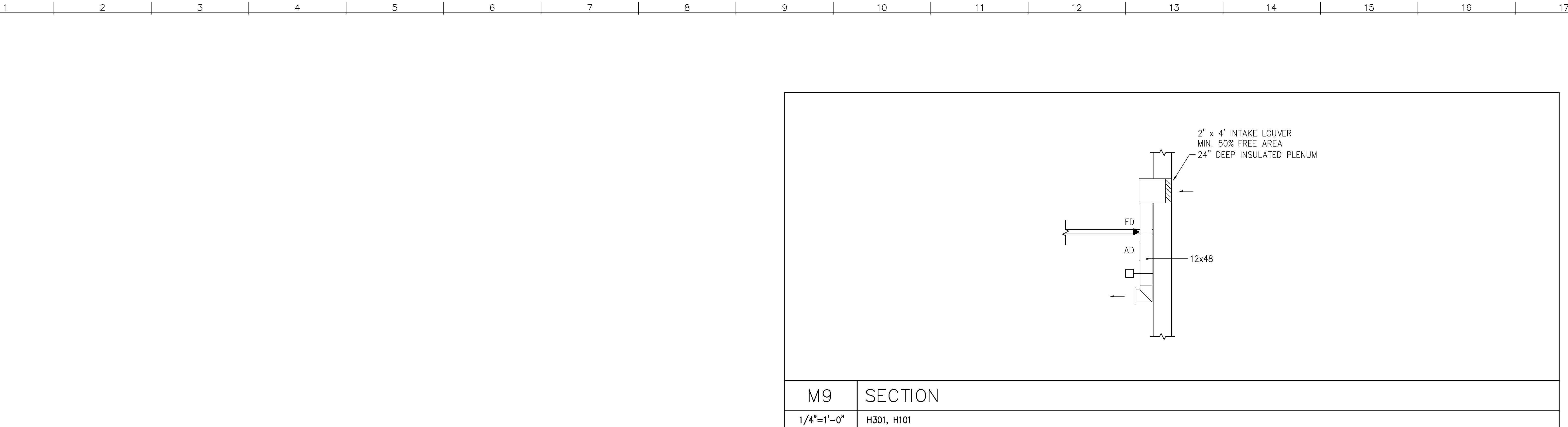
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL

DATE

PROJECT NO. 3449501  
DATE: 2/20/02  
H105  
SHEET 7 OF 25

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- ### KEY NOTES
- ALLOW 9" BETWEEN THE BOTTOM OF THE BEAM AND PIPING TO ALLOW ROOM FOR ELECTRICAL PIPING
  - 3" EXHAUST CPVC AND 3" INLET AIR PVC STACKED RUN ABOVE ALL OTHER PIPING TO FIRST FLOOR
  - REFRIGERANT LEAK DETECTION SYSTEM ALARM.
  - PROVIDE SELF-CONTAINED BREATHING APPARATUS IN ACCORDANCE WITH ASHRAE STANDARD 15-1992 IN THIS LOCATION.
  - MAINTAIN MINIMUM SPACING OF 3" BETWEEN CHILLER AND COLUMN TO ALLOW ACCESS TO AREAWAY.
  - 2" REFRIGERANT RELIEF PIPING TO CHILLER. SIZE AND CONNECT RELIEF PIPING TO CHILLER IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
  - PROVIDE AIR COOLED CONDENSING UNIT FOR TELCOM ROOM A/C UNIT. BASIS OF DESIGN: LIEBERT DATAMATE MODEL PFC020A. FIELD ROUTE REFRIGERANT LINES FROM OUTDOOR UNIT TO INDOOR UNIT IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

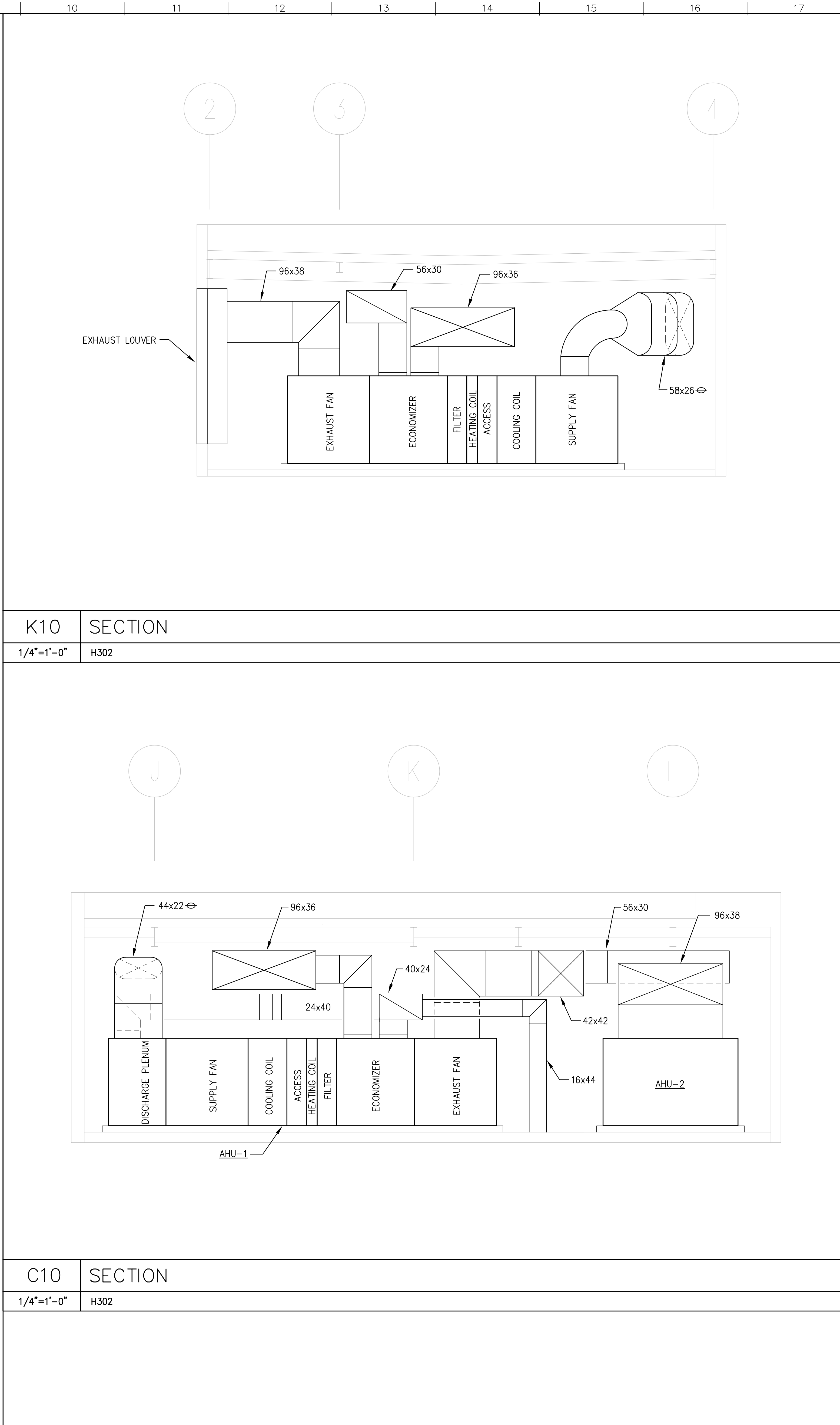
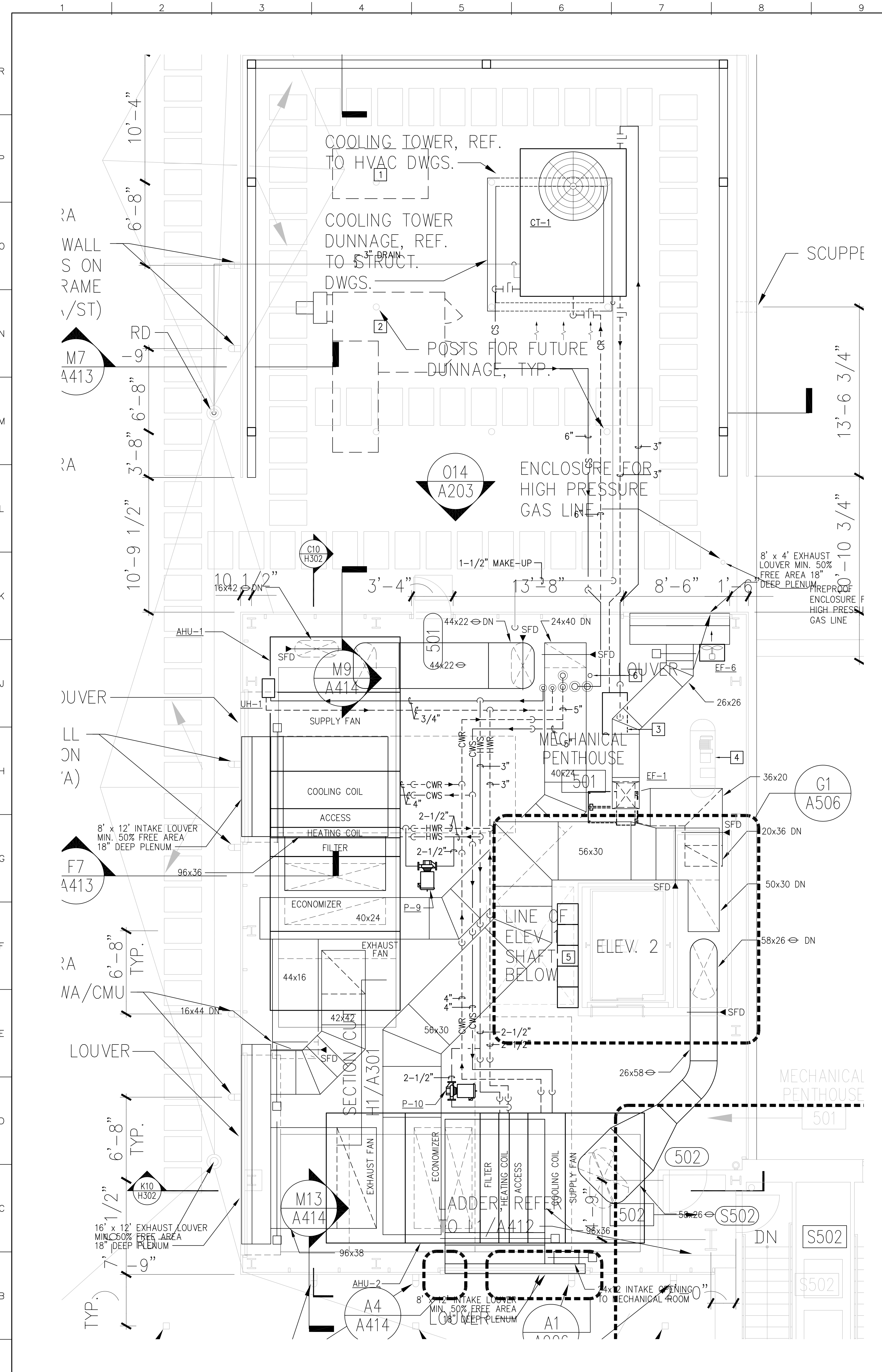
- ### GENERAL NOTES
- REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.

C1	BASEMENT MECHANICAL ROOM DETAIL
1/4"=1'-0"	H10B, H20B

C9	SECTION
1/4"=1'-0"	H301

HEALTH SCIENCES BUILDING		MONTGOMERY COLLEGE	
MONTGOMERY COLLEGE		TAKOMA PARK CAMPUS EXPANSION	
SILVER SPRING, MARYLAND		13th ELECTION DISTRICT	
PROJECT # CC-01-MC-97/98-318		MONTGOMERY COUNTY, MARYLAND	
PROJECT NO. 34495.01	DATE: 2/20/02	PROJECT MANAGER	DATE
H301		CHIEF - PROJ. MGT. & DESIGN	DATE
SHEET 14 OF 25		TITLE	DATE
no. revisions/submissions		date	
BASEMENT MECHANICAL ROOM PLAN			
0' 2" 4" 8" 16" 1/8"=1'-0"			

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- KEY NOTES**
- 1 FUTURE MICROTURBINE GENERATOR.
  - 2 FUTURE OUTDOOR AIR PRETREATMENT SYSTEM.
  - 3 COOLING TOWER BASIN CLEANING SYSTEM.
  - 4 VACUUM PUMP. REFER TO PLUMBING DRAWINGS.
  - 5 MOTOR CONTROL CENTER. REFER TO ELECTRICAL DRAWINGS.
  - 6 2" REFRIGERANT RELIEF PIPING UP THROUGH PENTHOUSE ROOF.

- GENERAL NOTES**
1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.
  2. HEAT TRACE ALL EXPOSED PIPING ON ROOF.

**K10 SECTION**  
1/4"=1'-0" H302

**C10 SECTION**  
1/4"=1'-0" H302

**A1 PENTHOUSE MECHANICAL ROOM DETAIL**  
1/4"=1'-0" H105, H205

no.	revisions/submissions	date

**PENTHOUSE MECHANICAL PLAN**

01'2" 4' 8' 16' 1/8"=1'-0"

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

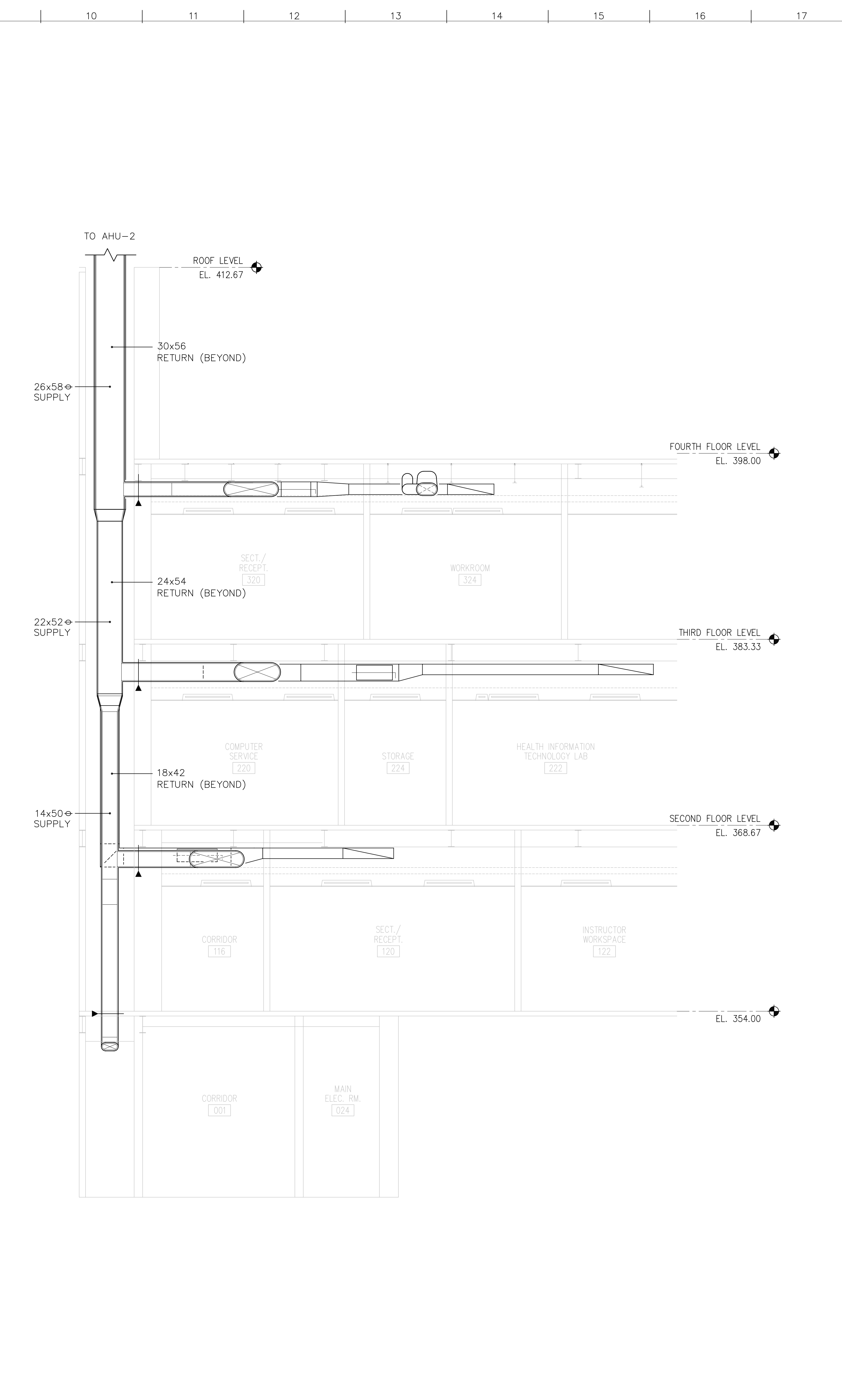
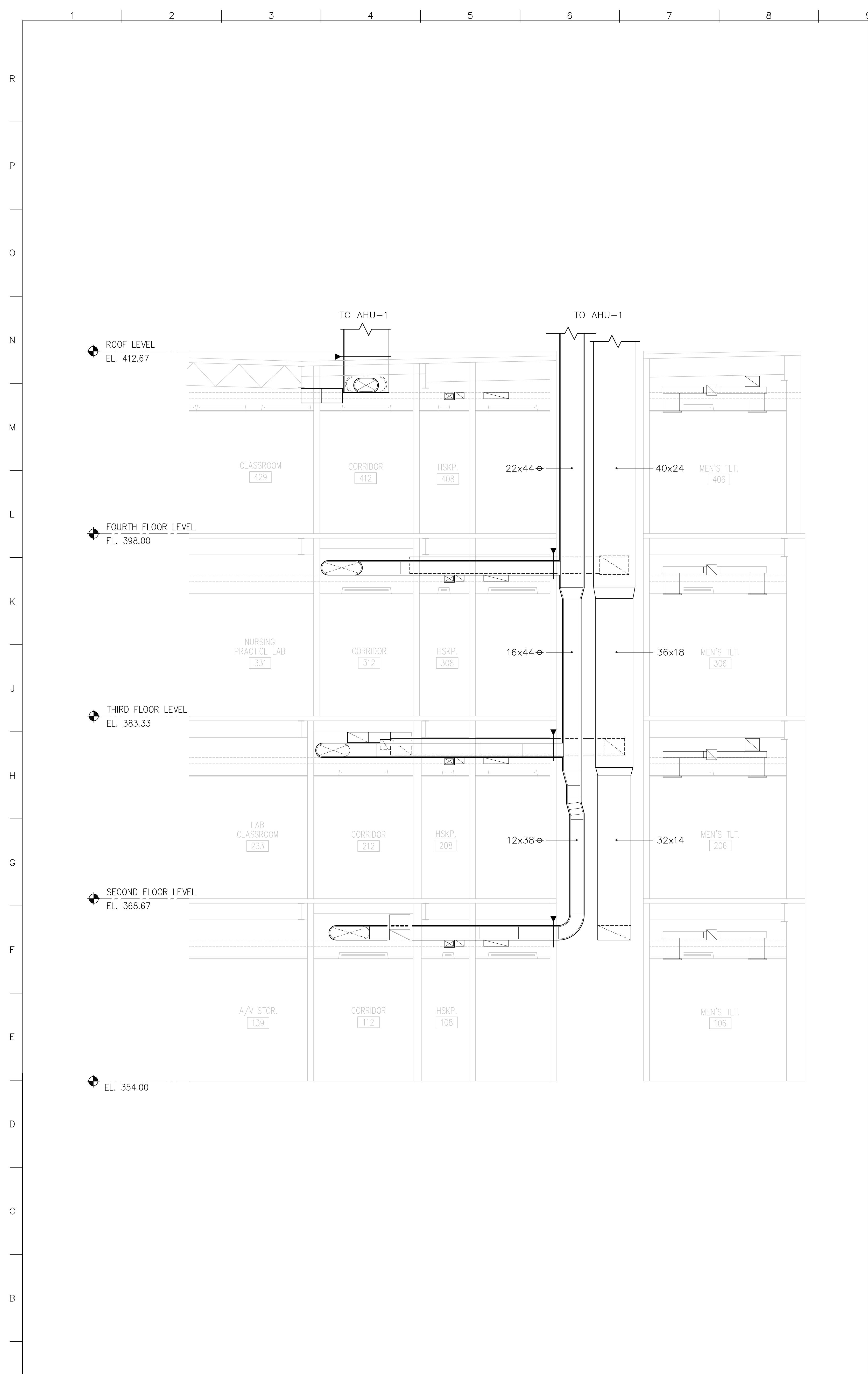
Penthouse Mechanical  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL  
DATE

PROJECT NO. 34495.01  
DATE: 2/20/02  
**H302**  
SHEET 15 OF 25

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Printed by BenC



KEY NOTES

GENERAL NOTES

1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.
2. FOR PURPOSES OF CLARITY, ALL OF THE DUCTWORK AND SIZES MAY NOT BE SHOWN ON THIS DRAWING. FOR DUCTWORK AND SIZES NOT SHOWN, REFER TO THE H100 SERIES DRAWINGS.

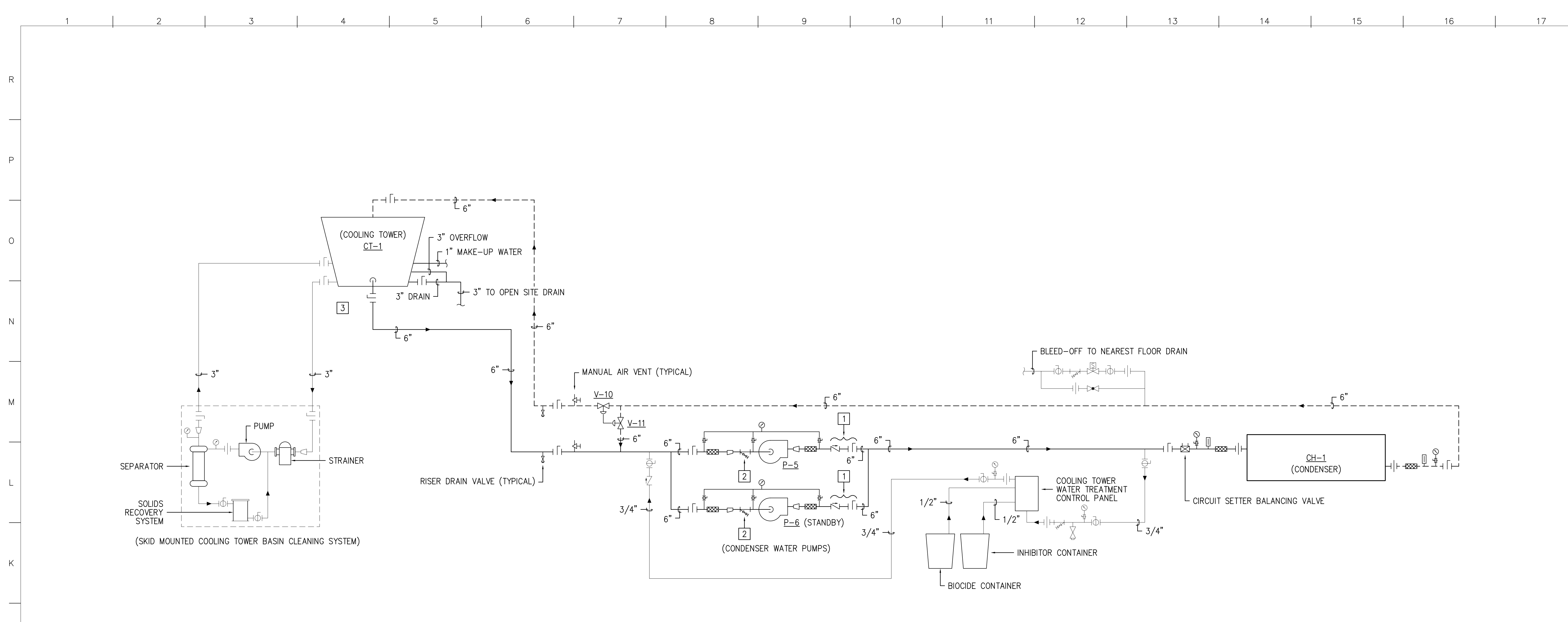
no.	revisions/submissions	date

**A1** NORTH SHAFT DUCT RISER DIAGRAM  
 1/4"=1'-0" H101, H102, H103, H104

**A10** EAST SHAFT DUCT RISER DIAGRAM  
 1/4"=1'-0" H10B, H101, H102, H103, H104

PROJECT NO. 34499.01 DATE: 2/20/02 <b>H303</b> SHEET 16 OF 25	HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC 97/98-318	HVAC Duct Risers MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland	DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER CHIEF - PROJ. MGT. & DESIGN	MONTGOMERY COLLEGE APPROVAL DATE DATE DATE DATE DATE DATE	TITLE DATE DATE DATE DATE DATE

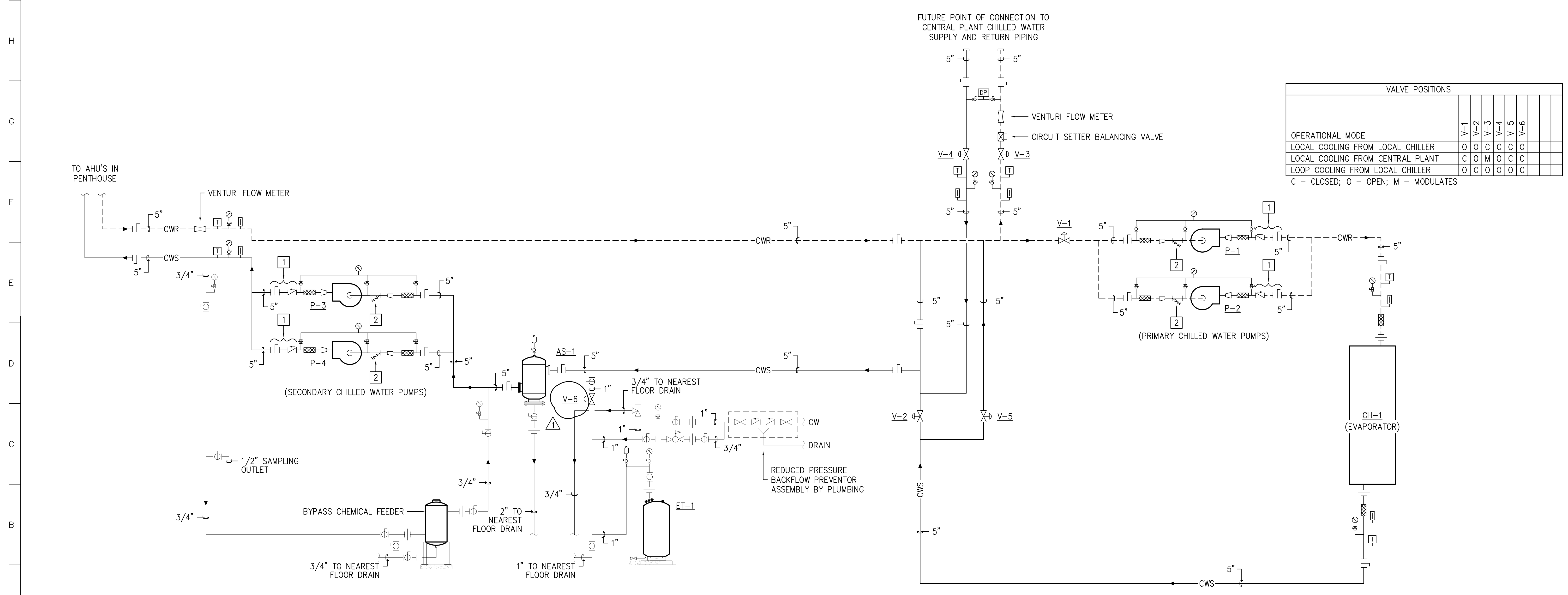
P:\0999\_34499.01\Drawings\HSP-H303.DWG  
 3/1/02 10:33 AM  
 Printed by BenC



- KEY NOTES**
- TRIPLE DUTY VALVE AS INDICATED ON DETAIL N1/H501.
  - SUCTION DIFFUSER W/STRAINER AS INDICATED ON DETAIL N1/H501.
  - HEAT TRACE ALL PIPING EXPOSED OUTSIDE PENTHOUSE MECHANICAL ROOM.

- GENERAL NOTES**
- REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.
  - SOME VALVES AND EQUIPMENT ACCESSORIES MAY NOT BE SHOWN ON THE FLOW DIAGRAMS. REFER TO DETAILS ON H500 SERIES DRAWINGS FOR COMPLETE PIPING, VALVING, AND MISCELLANEOUS COMPONENTS RELATED TO INDIVIDUAL PIECES OF EQUIPMENT.
  - POSITIONS OF EQUIPMENT AND PIPING INDICATED ON THE FLOW DIAGRAMS ARE DIAGRAMMATIC ONLY. REFER TO THE FLOOR PLANS FOR ACTUAL EQUIPMENT LOCATIONS.

**J1** CONDENSER WATER SYSTEM FLOW DIAGRAM  
NTS



**A1** CHILLED WATER SYSTEM FLOW DIAGRAM  
NTS

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

CHIEF - PROJ. MGT. & DESIGN: \_\_\_\_\_ DATE: \_\_\_\_\_

**Mechanical Flow Diagrams**

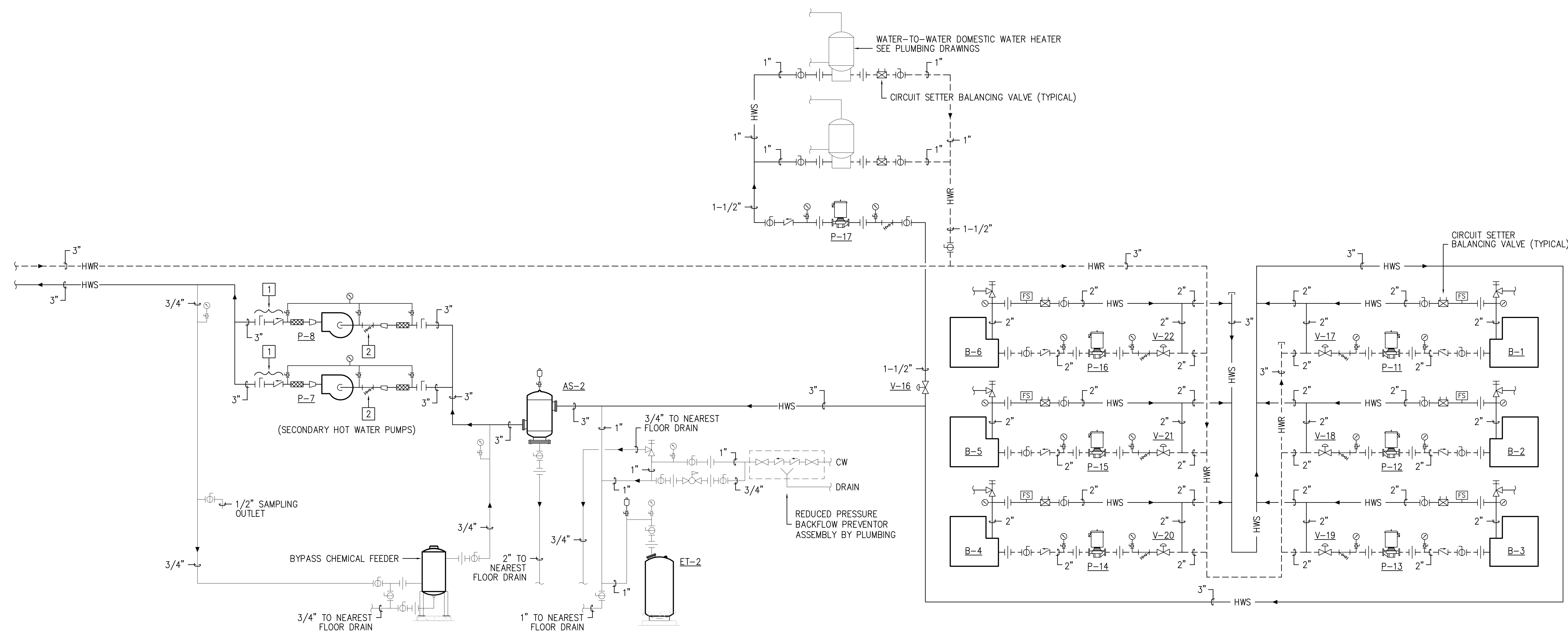
HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

PROJECT NO. 34495.01  
DATE: 2/20/02  
**H401**  
SHEET 17 OF 25

no.	revisions/submissions	date

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Printed by ELEC



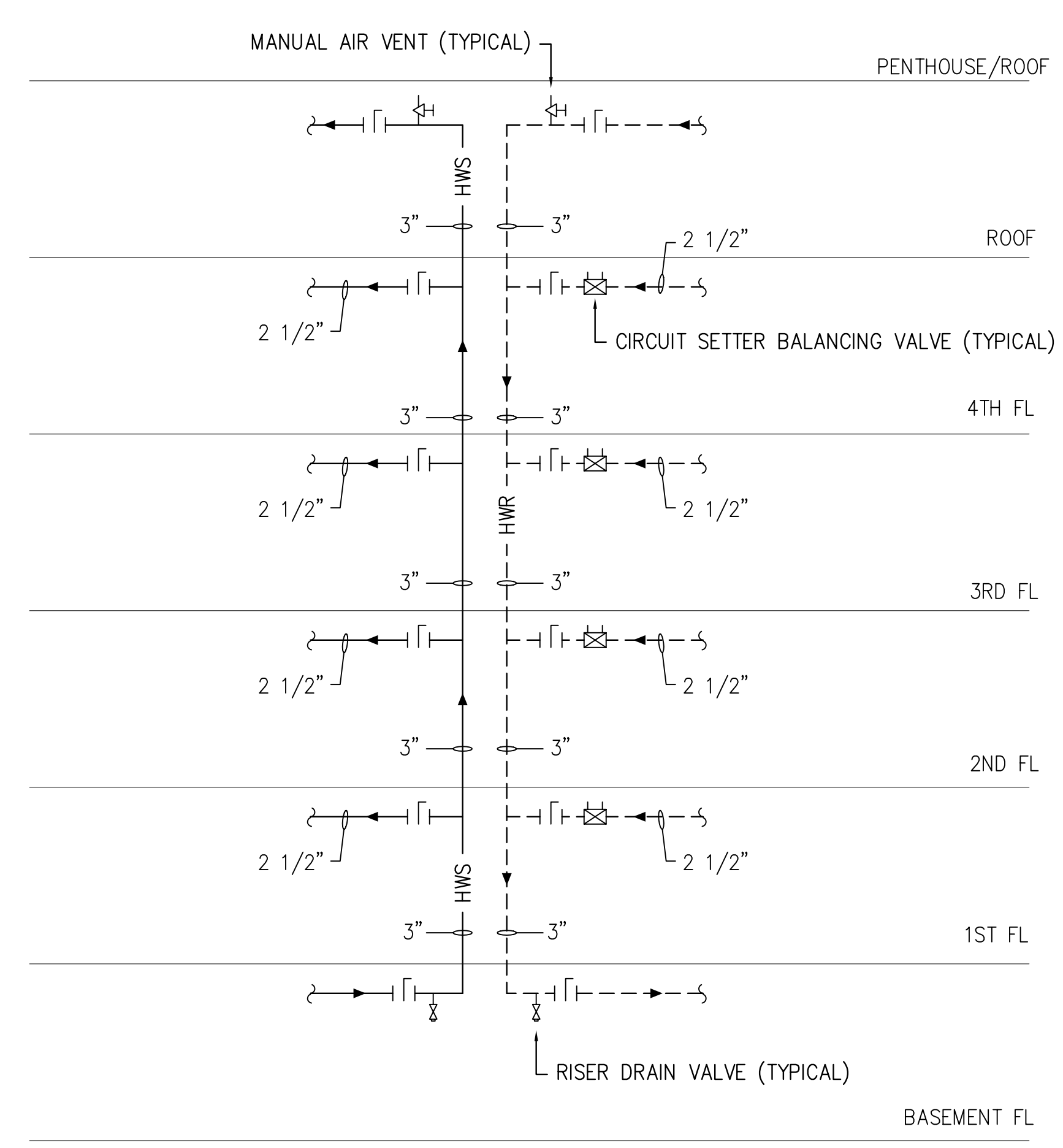
**KEY NOTES**

- 1 TRIPLE DUTY VALVE AS INDICATED ON DETAIL N1/H501.
- 2 SUCTION DIFFUSER W/STRAINER AS INDICATED ON DETAIL N1/H501.

**GENERAL NOTES**

- 1. REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.
- 2. SOME VALVES AND EQUIPMENT ACCESSORIES MAY NOT BE SHOWN ON THE FLOW DIAGRAMS. REFER TO DETAILS ON H500 SERIES DRAWINGS FOR COMPLETE PIPING, VALVING, AND MISCELLANEOUS COMPONENTS RELATED TO INDIVIDUAL PIECES OF EQUIPMENT.
- 3. POSITIONS OF EQUIPMENT AND PIPING INDICATED ON THE FLOW DIAGRAMS ARE DIAGRAMMATIC ONLY. REFER TO THE FLOOR PLANS FOR ACTUAL EQUIPMENT LOCATIONS.

J1 HOT WATER SYSTEM FLOW DIAGRAM  
NTS



A1 HOT WATER SYSTEM RISER DIAGRAM  
NTS

no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**H402**  
 SHEET 18 of 25

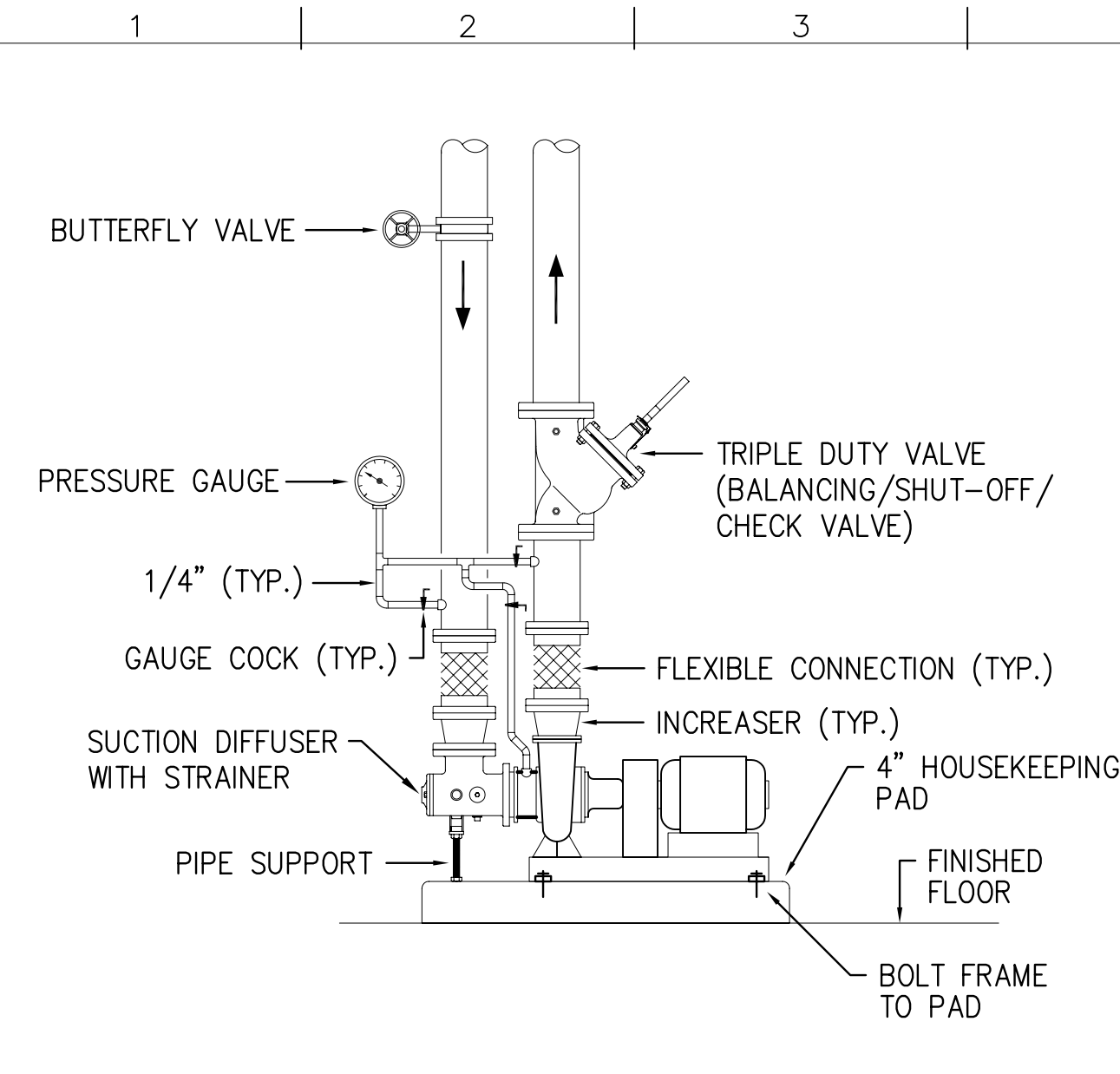
**Mechanical Flow Diagrams**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-97/98-318

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

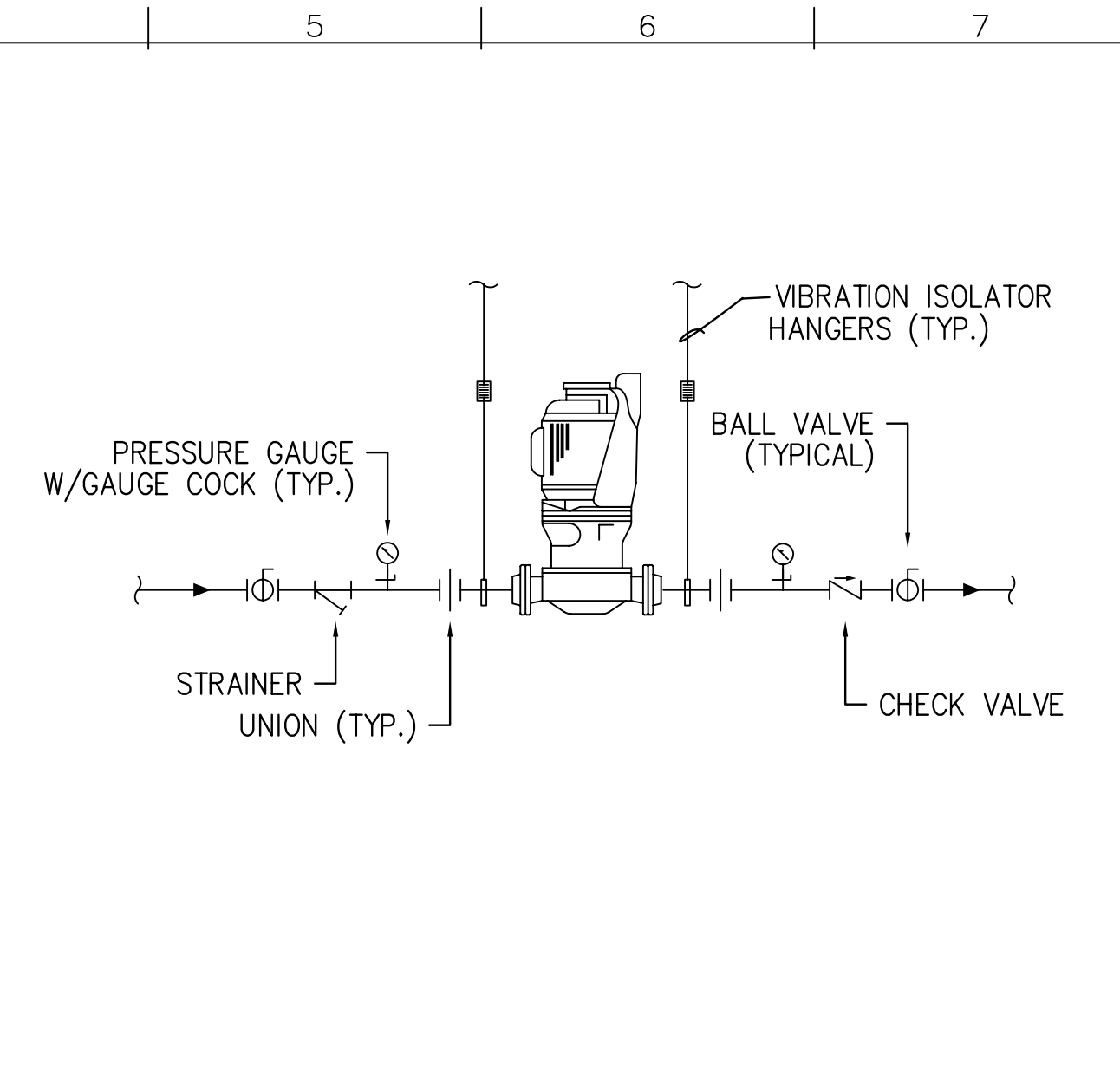
DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
 DATE

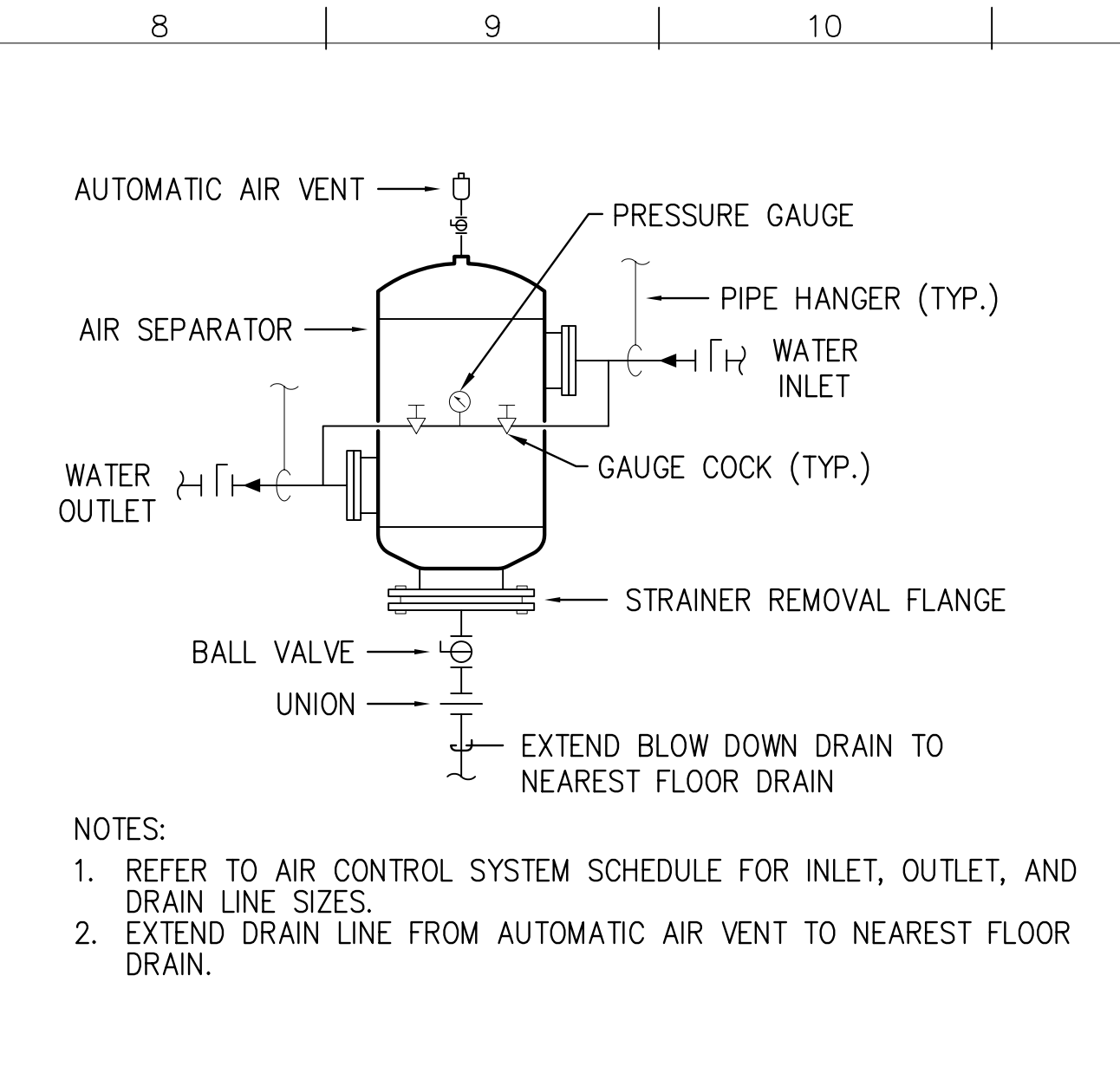
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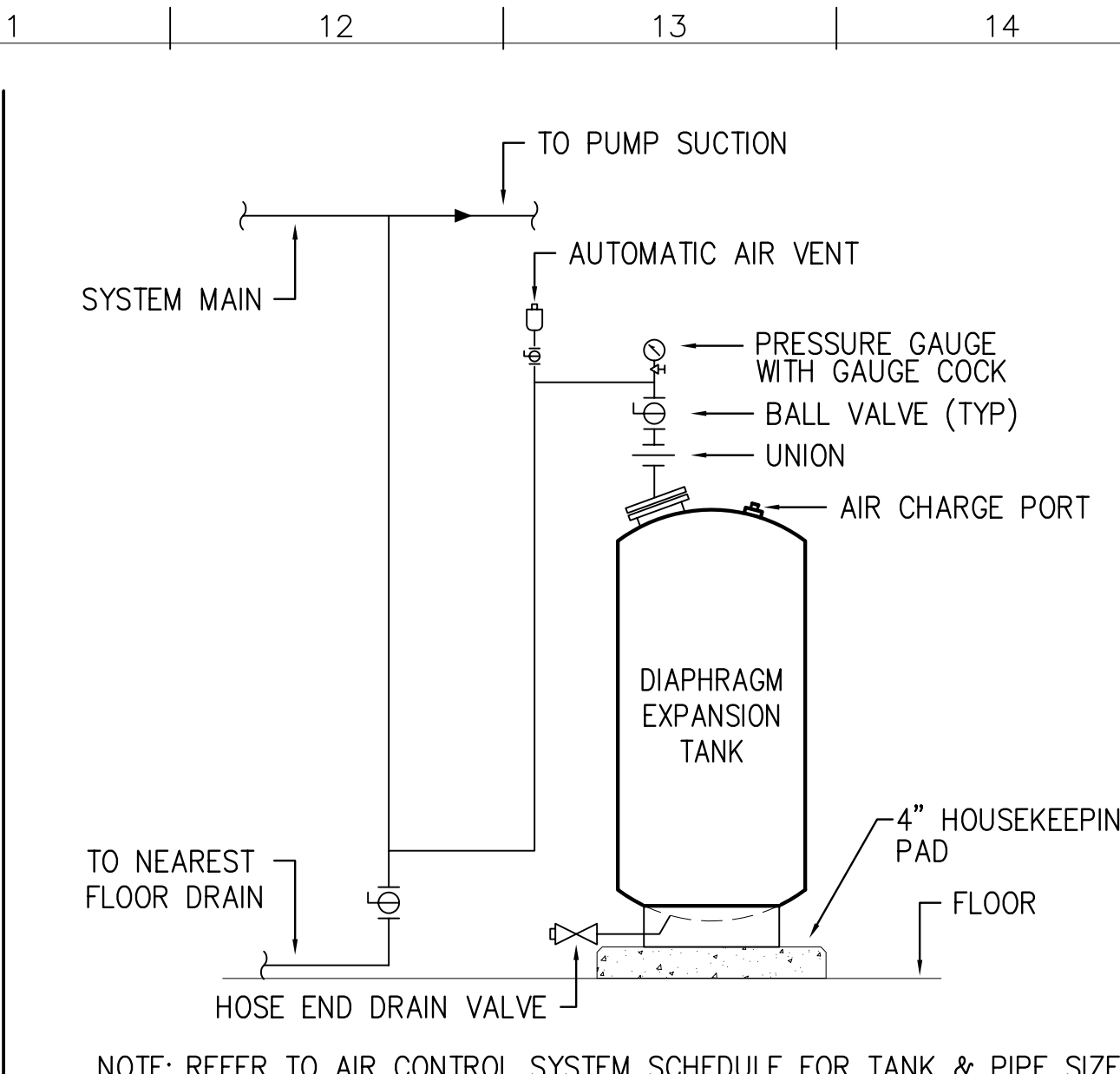
N1 END SUCTION PUMP DETAIL  
NTS H301/H401/H402



N4 IN-LINE PUMP DETAIL  
NTS H302/H402



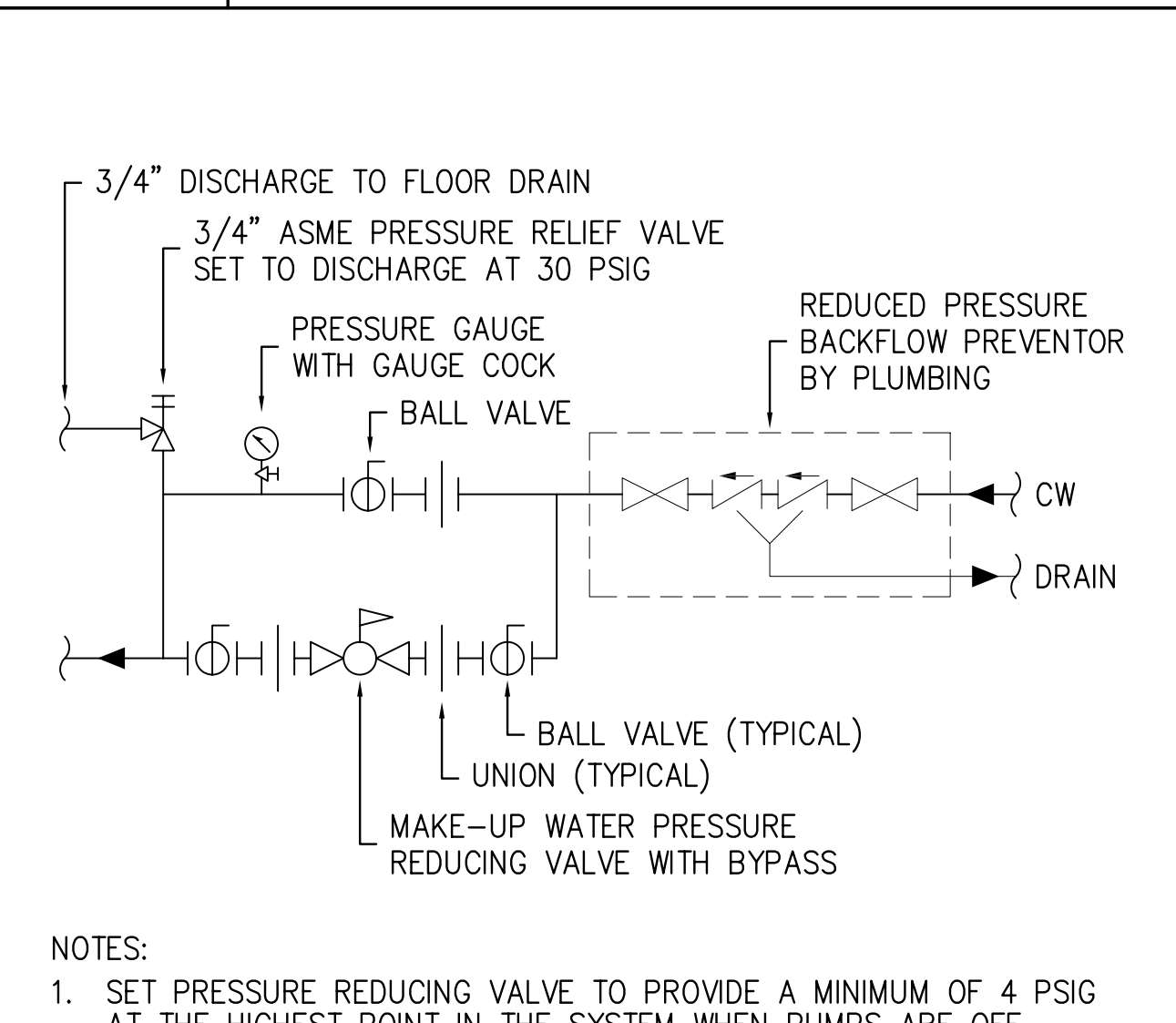
N8 TYPICAL AIR SEPARATOR  
NTS H301/H401/H402



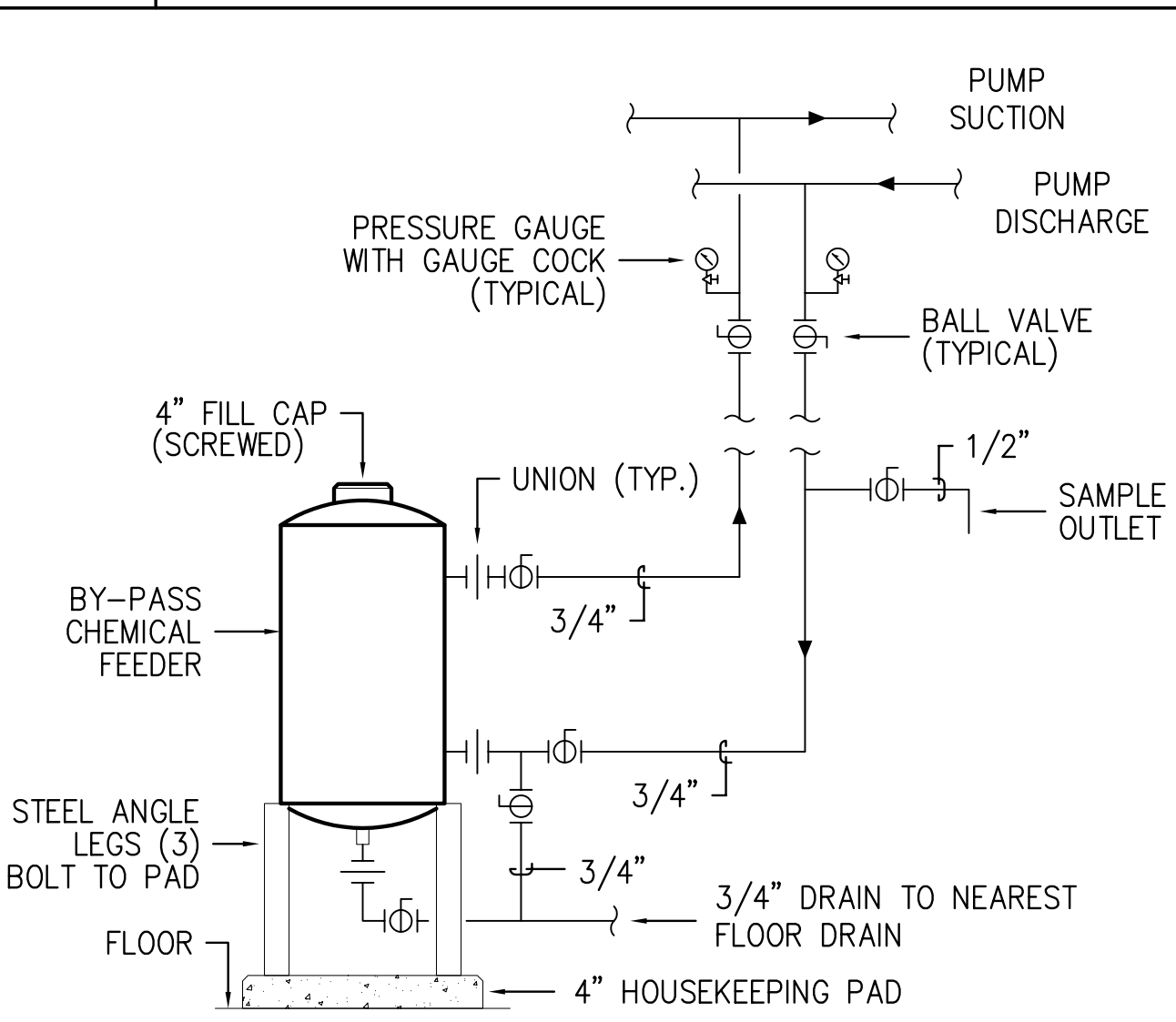
N11 DIAPHRAGM EXPANSION TANK  
NTS H301/H401/H402

GENERAL NOTES

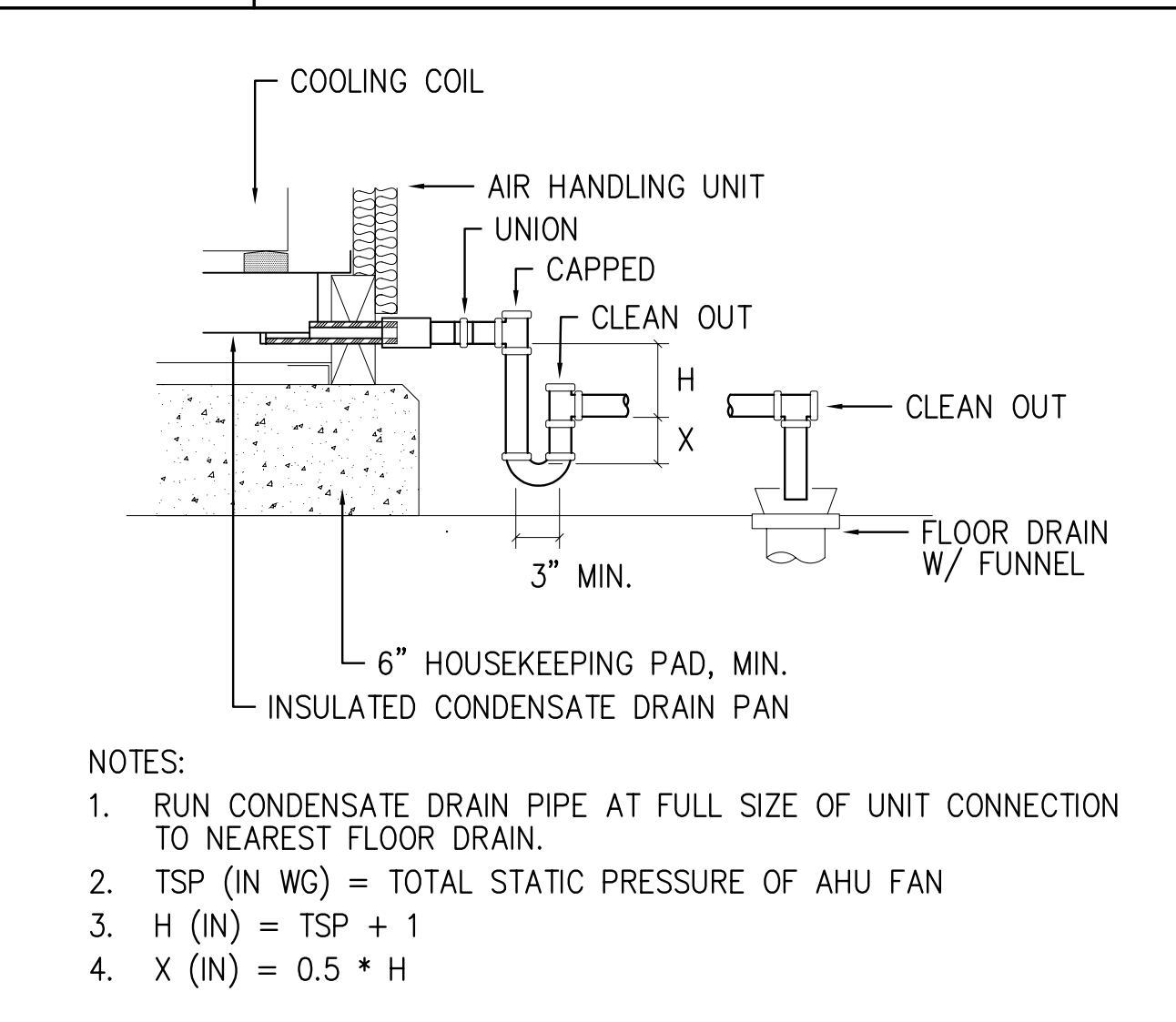
- REFER TO MECHANICAL EQUIPMENT SCHEDULES ON M700 SERIES DRAWINGS FOR EQUIPMENT CAPACITIES AND DESIGN CONDITIONS.
- REFER TO SPECIFICATION SECTION 15250 FOR PIPING, DUCTWORK, AND EQUIPMENT INSULATION REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 15240 FOR PIPING, DUCTWORK, AND EQUIPMENT VIBRATION ISOLATION REQUIREMENTS.



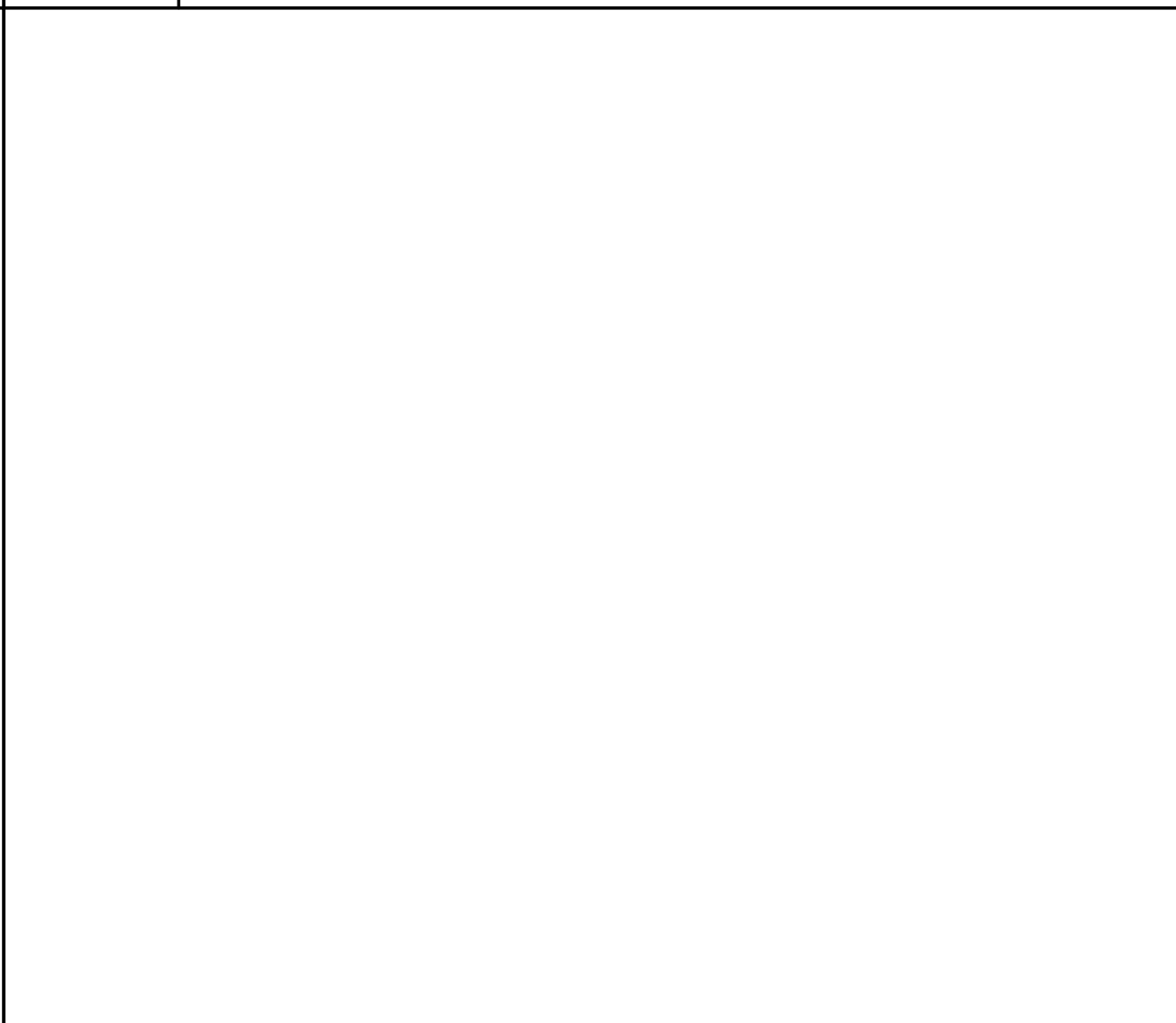
J1 MAKEUP WATER CONNECTION  
NTS H301/H401/H402



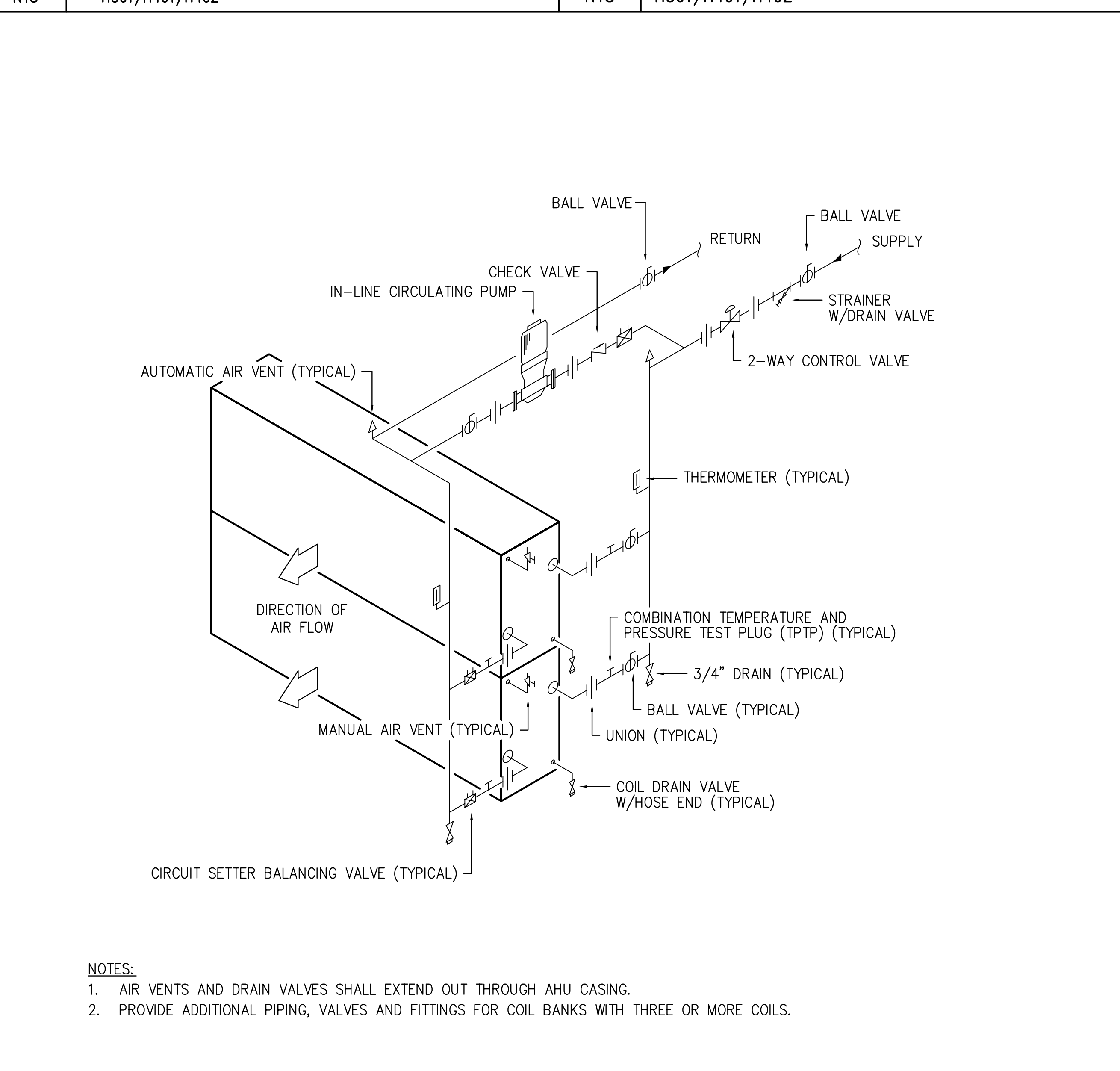
J4 BY-PASS CHEMICAL FEEDER  
NTS H301/H401/H402



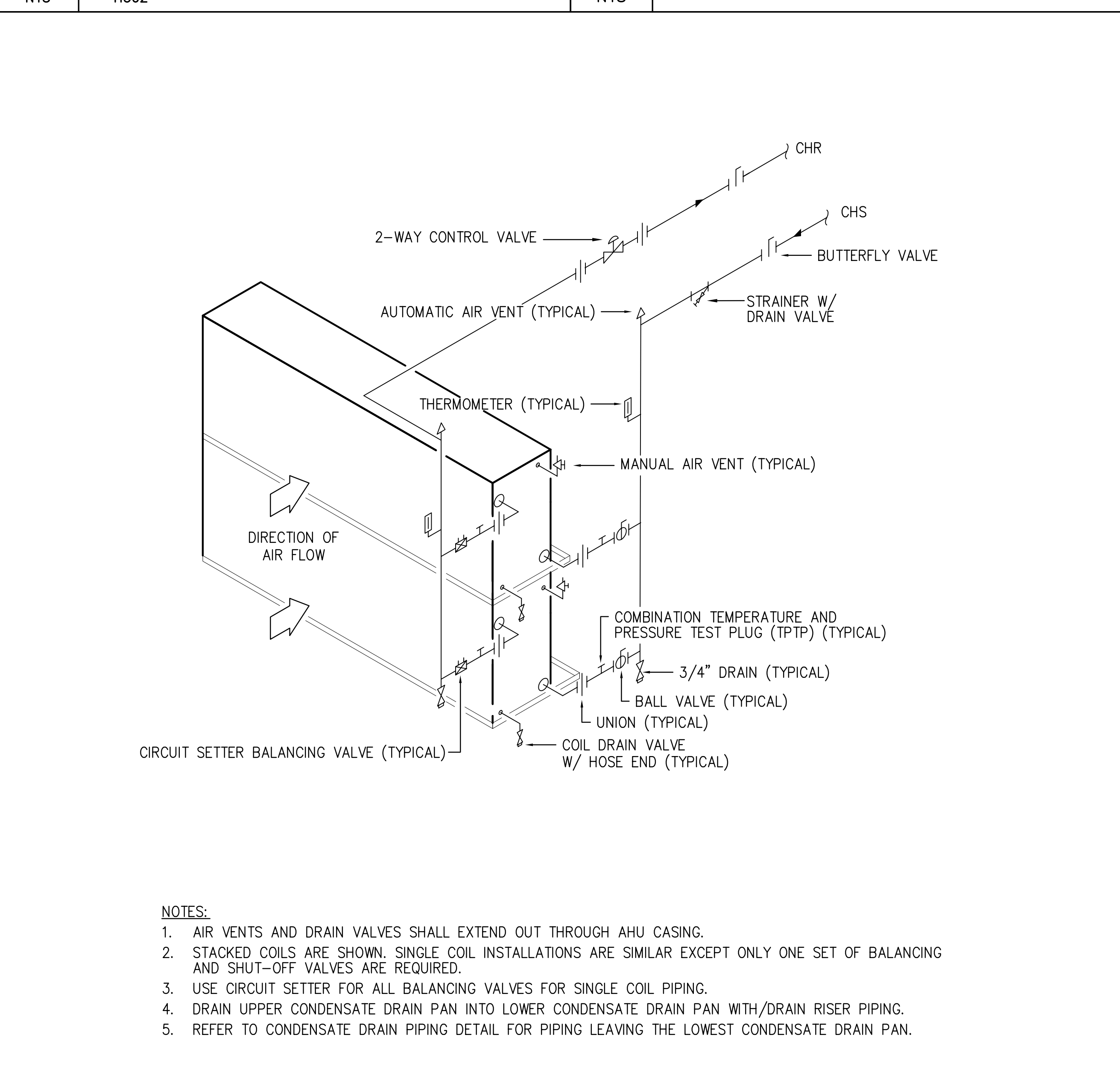
J8 CONDENSATE DRAIN TRAP  
NTS H302



J11 NOT USED  
NTS



A1 TYPICAL HOT WATER PREHEAT COIL PIPING DETAIL  
NTS H302



A8 TYPICAL CHILLED WATER COOLING COIL PIPING DETAIL  
NTS H302

no.	revisions/submissions	date

PROJECT NO. 34499.01  
DATE: 2/20/02  
H501  
SHEET 19 OF 25

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

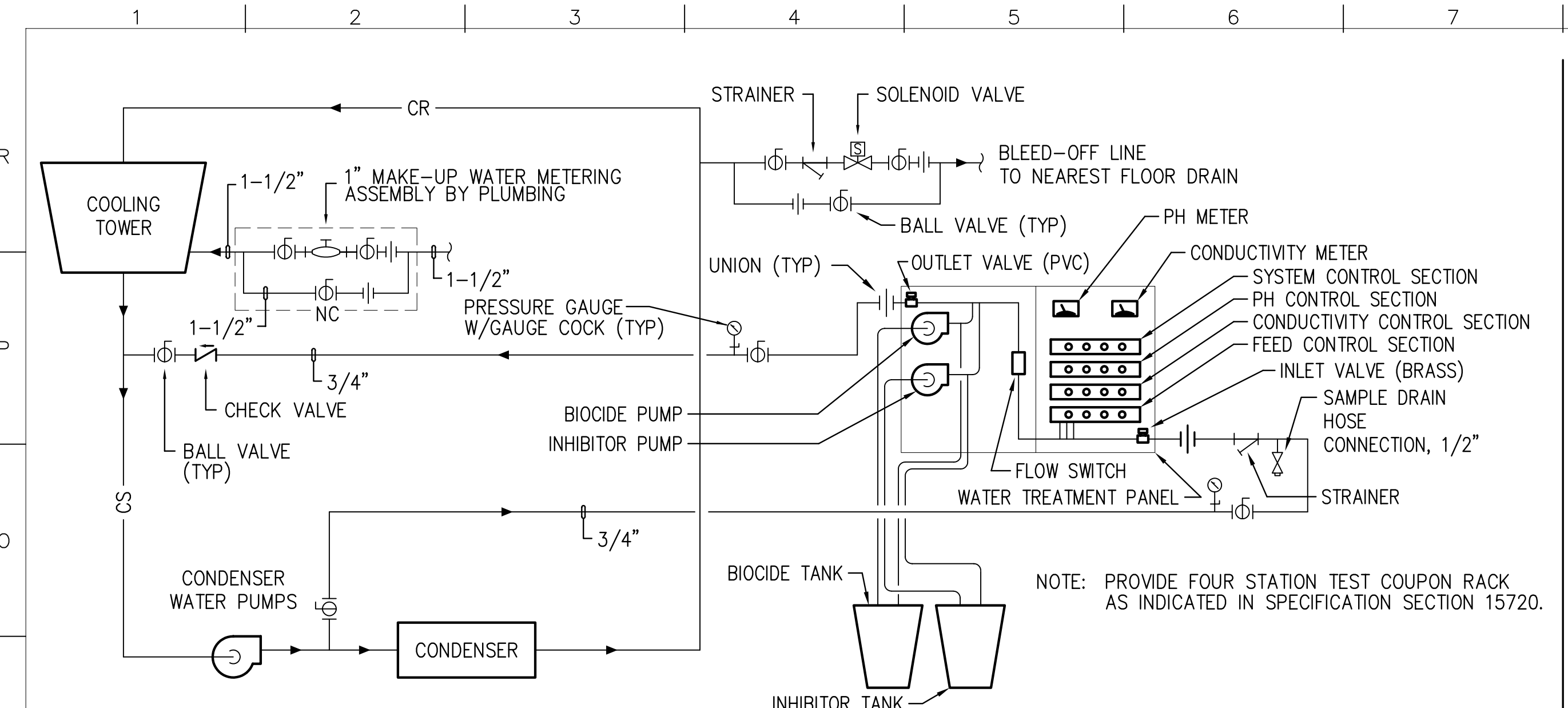
MECHANICAL DETAILS  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

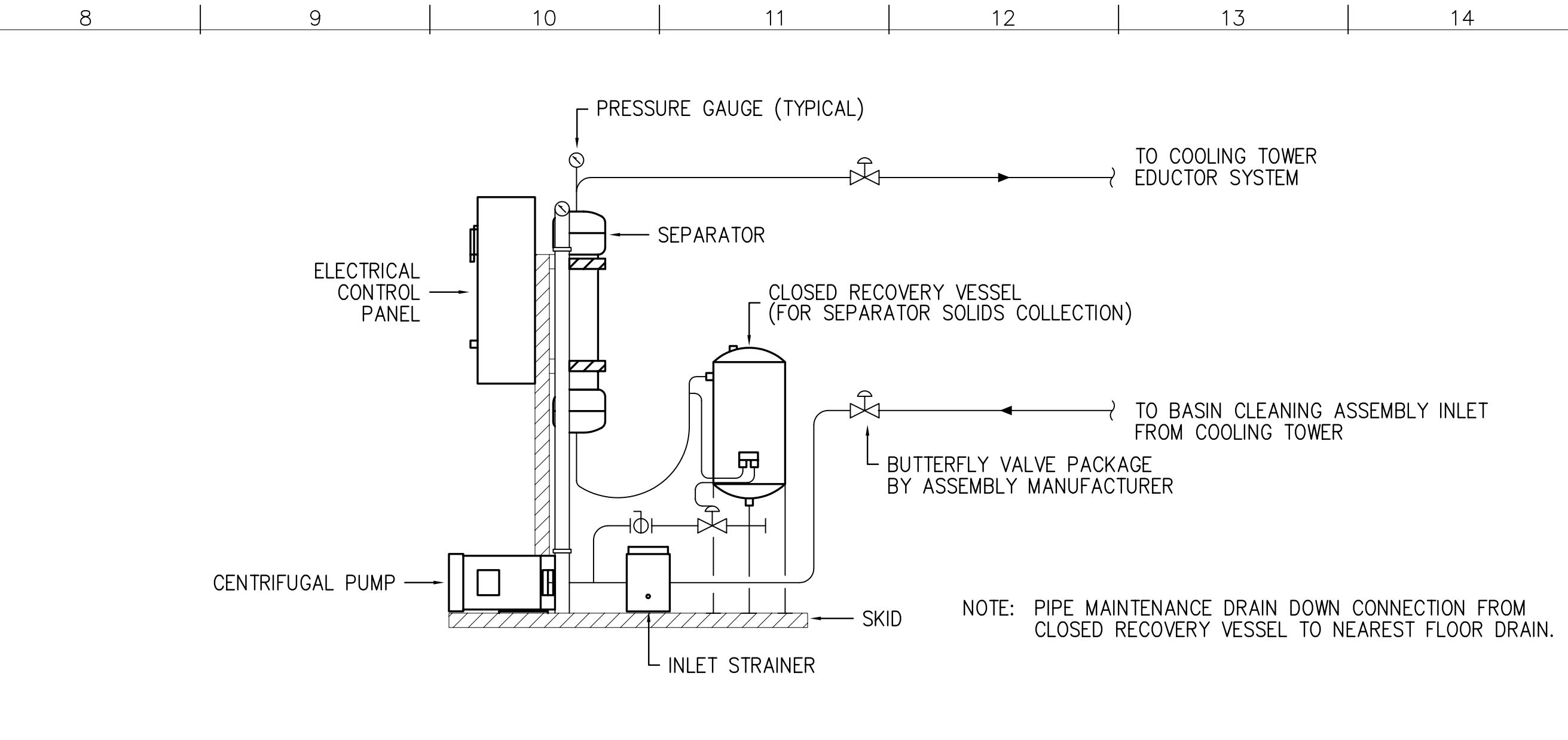
MONTGOMERY COLLEGE APPROVAL  
DATE

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Printed by BenC

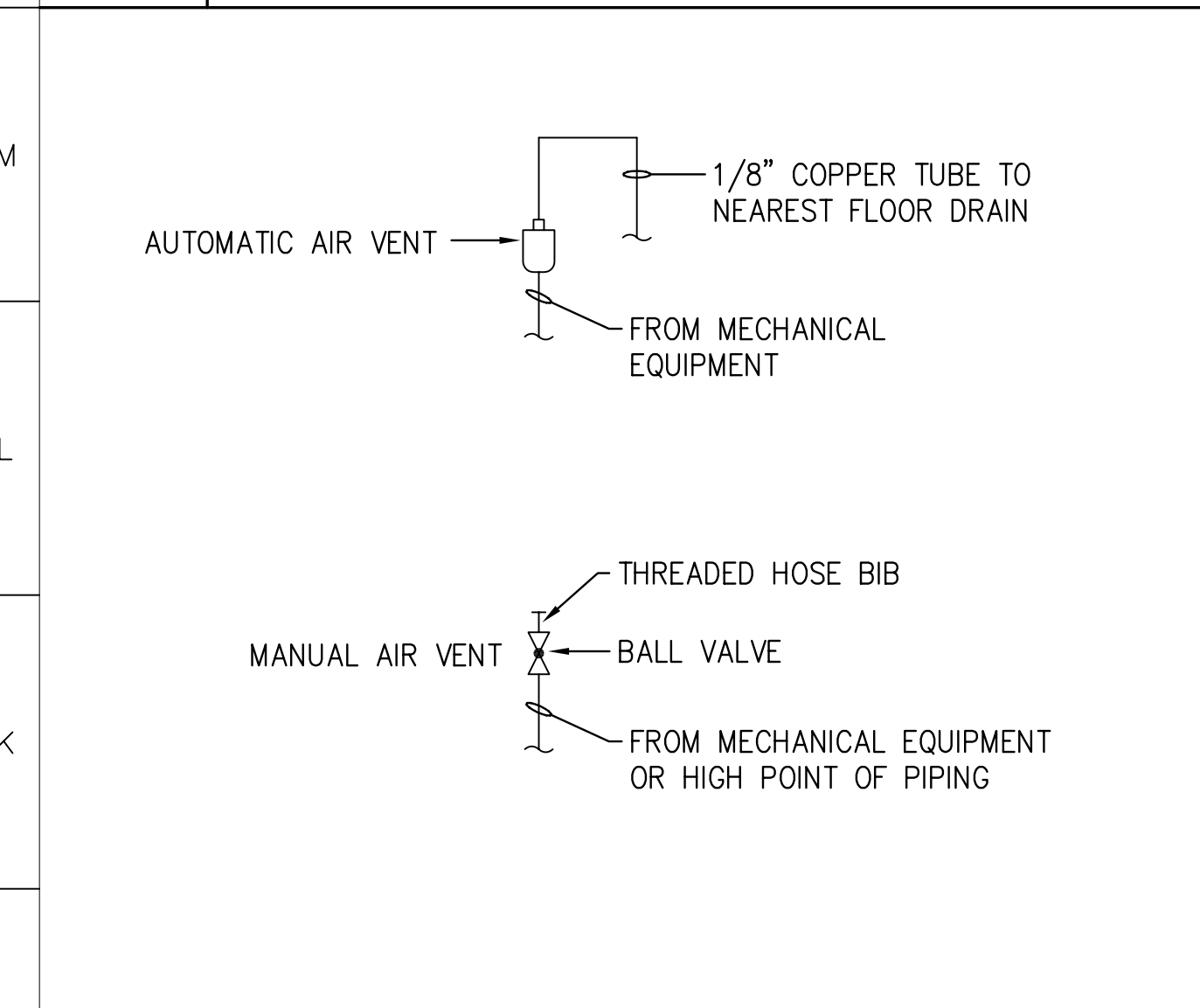




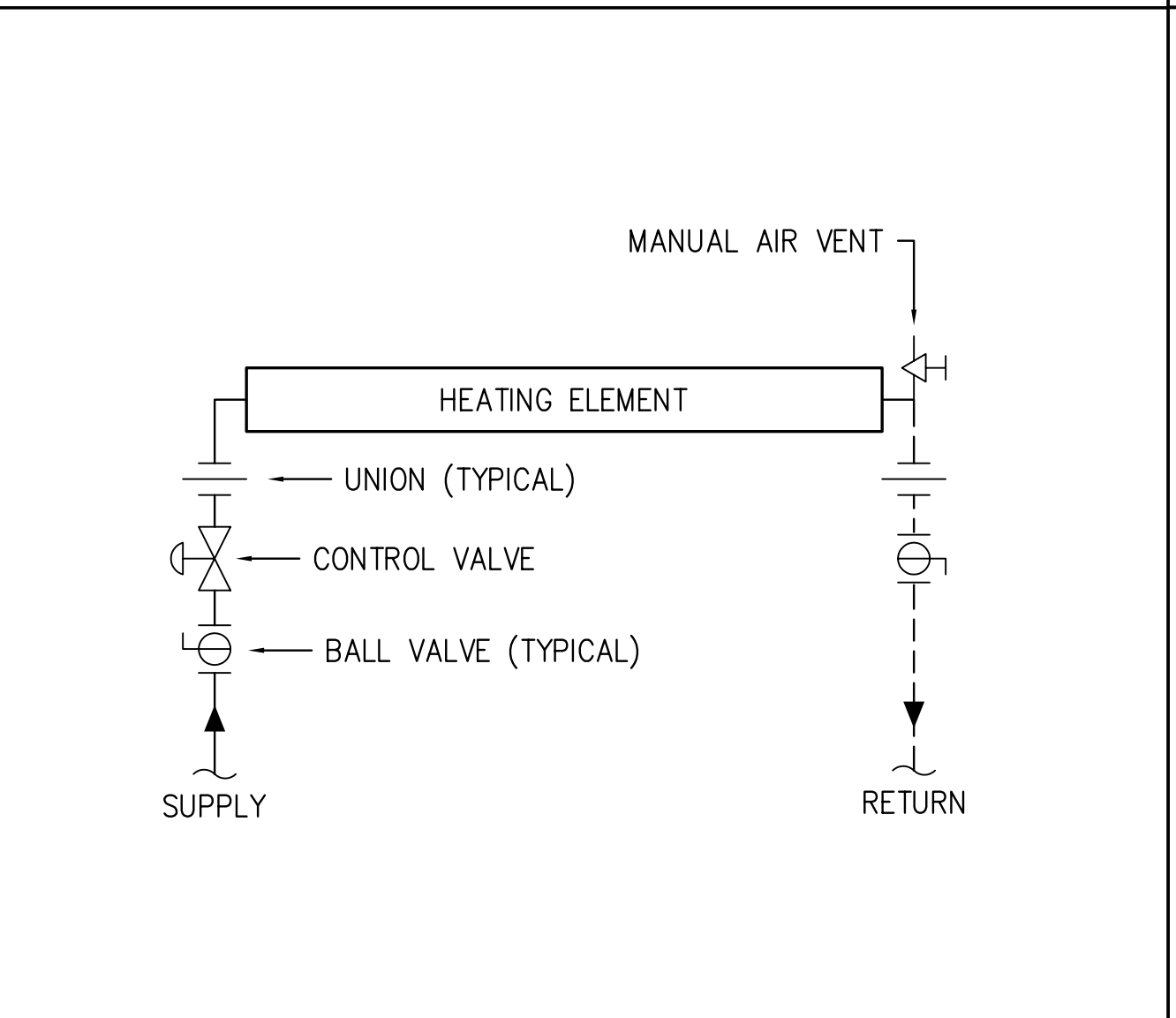
**N1** COOLING TOWER WATER TREATMENT SYSTEM  
NTS H301/H401



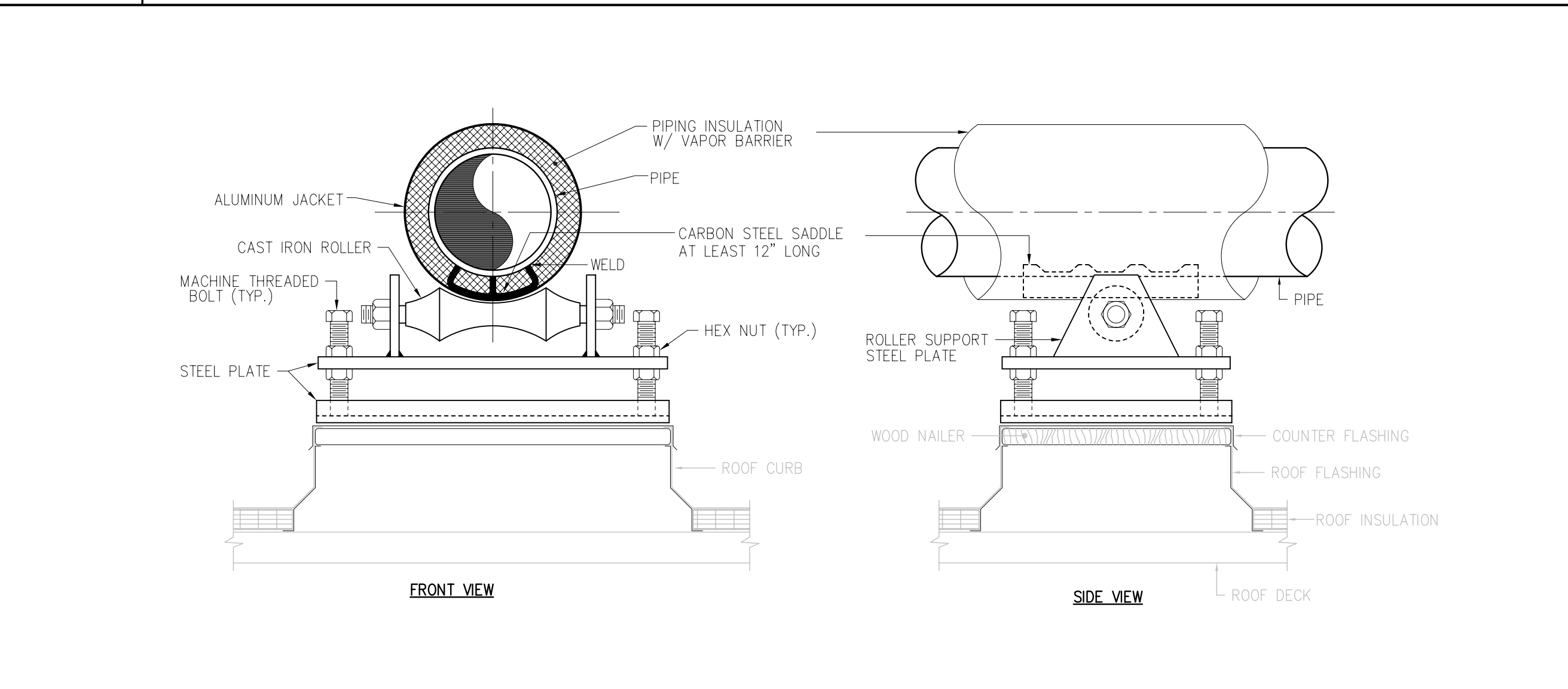
**N8** COOLING TOWER BASIN CLEANING SYSTEM  
NTS H302/H401



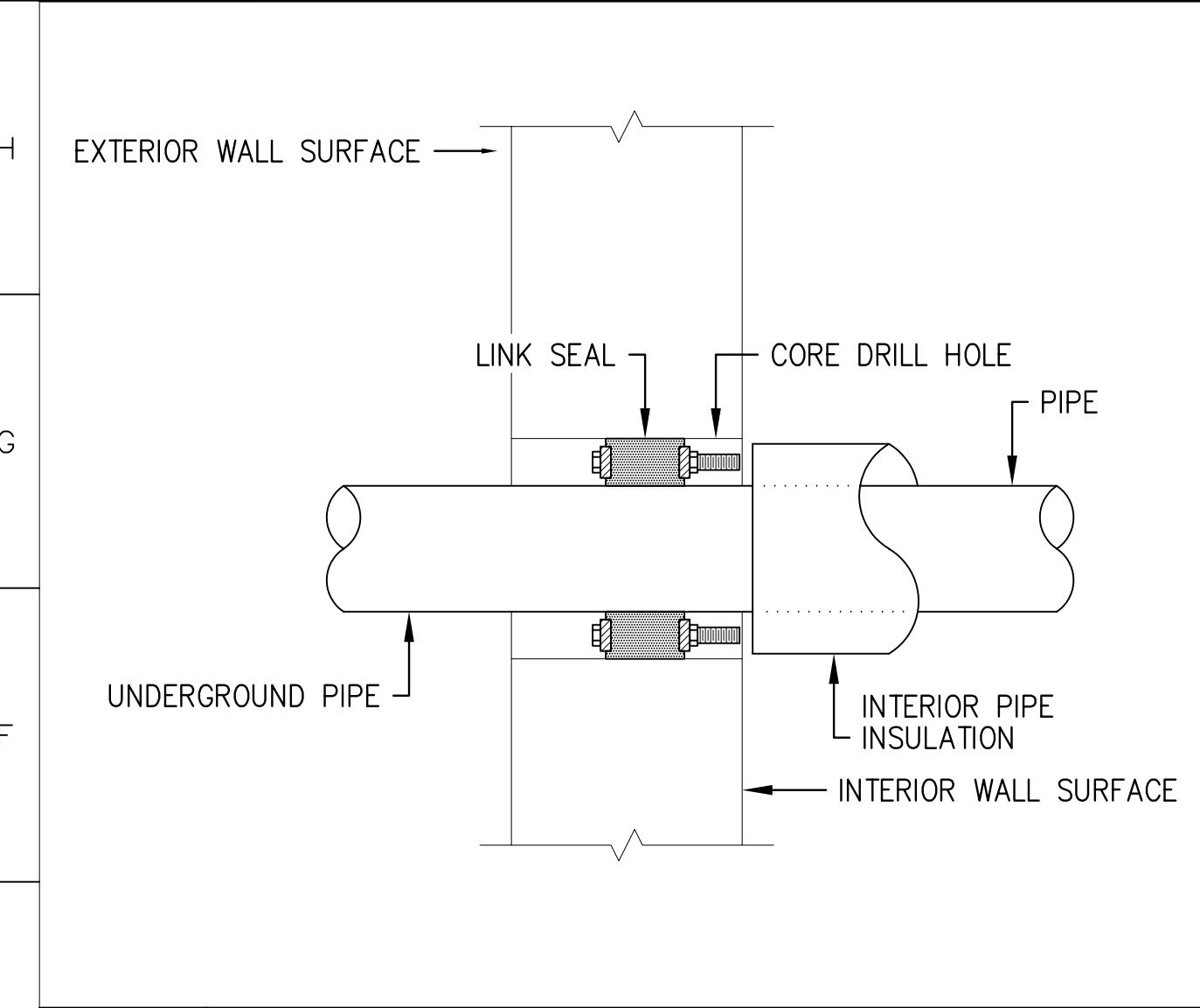
**J1** AUTOMATIC/MANUAL AIR VENT  
NTS



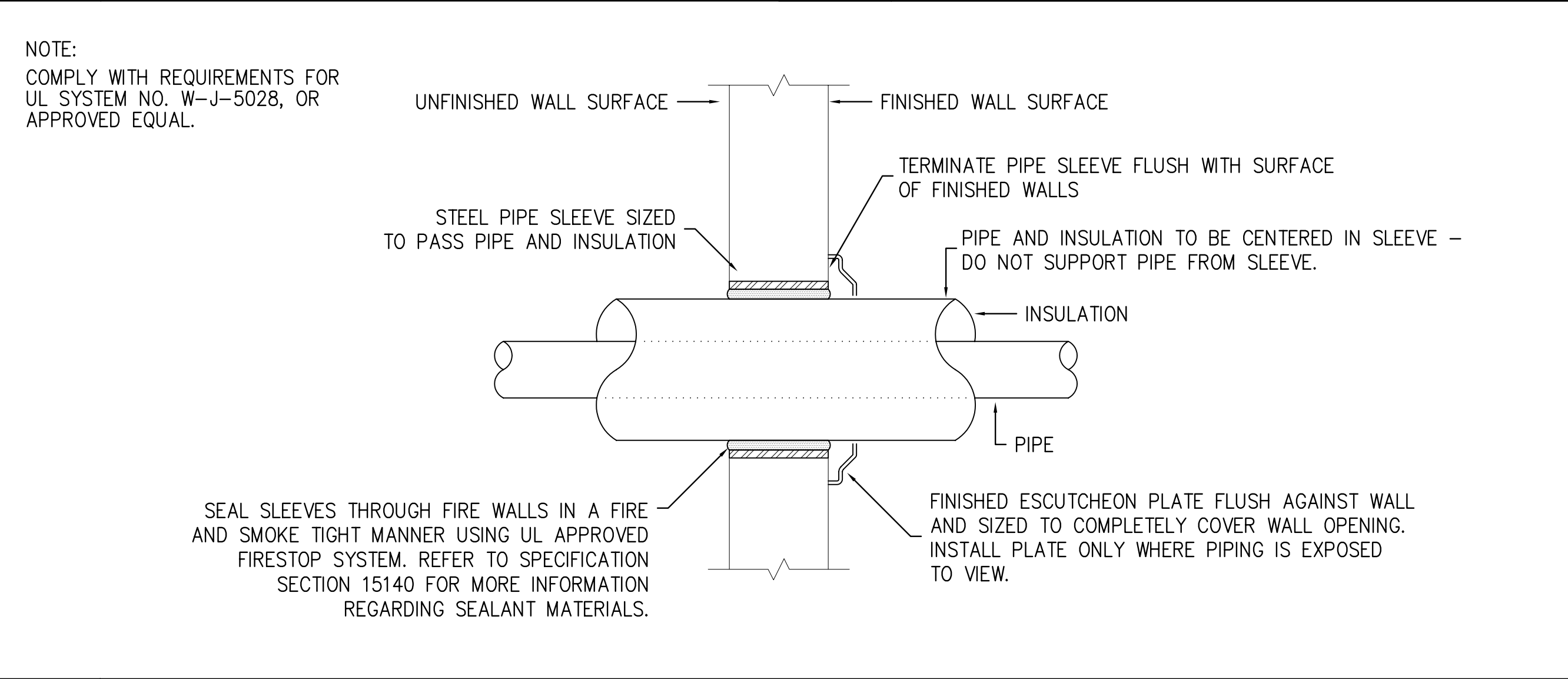
**J4** HOT WATER CONVECTOR CONNECTION SCHEMATIC  
NTS



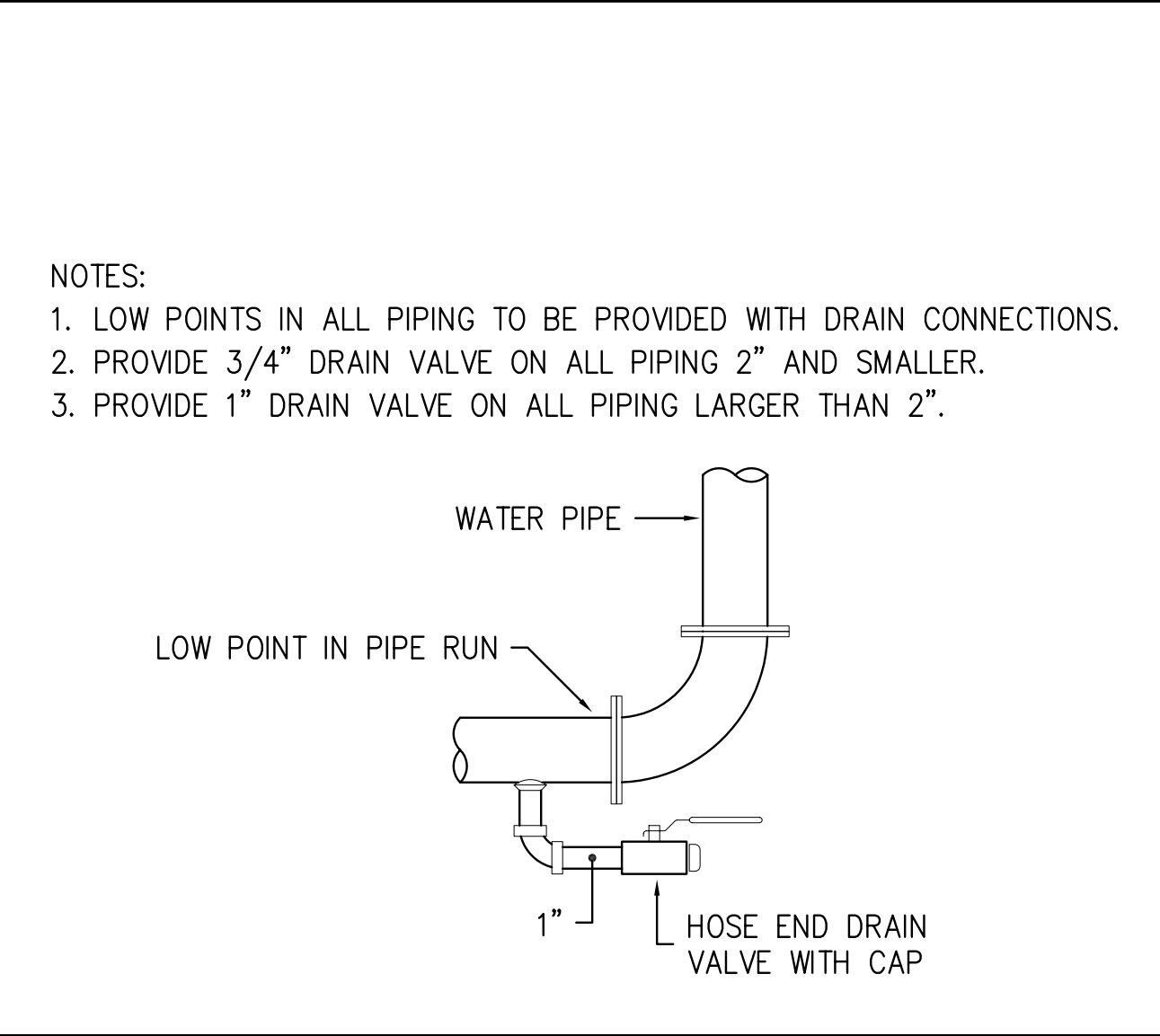
**J8** ROOF MOUNTED PIPE SUPPORT DETAIL  
NTS M302



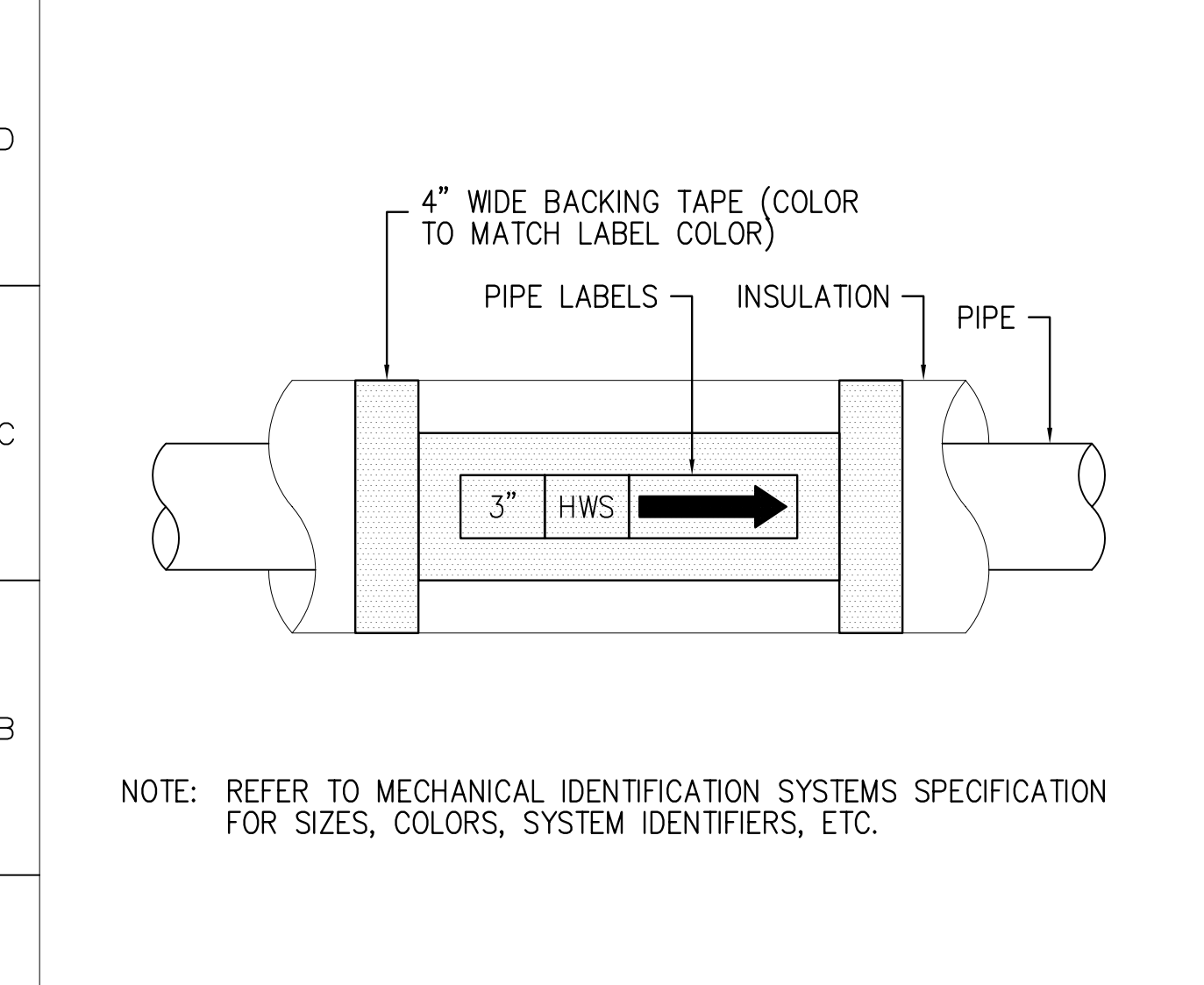
**E1** TYP. PIPE PENETRATION THRU EXTERIOR WALL  
NTS VARIES



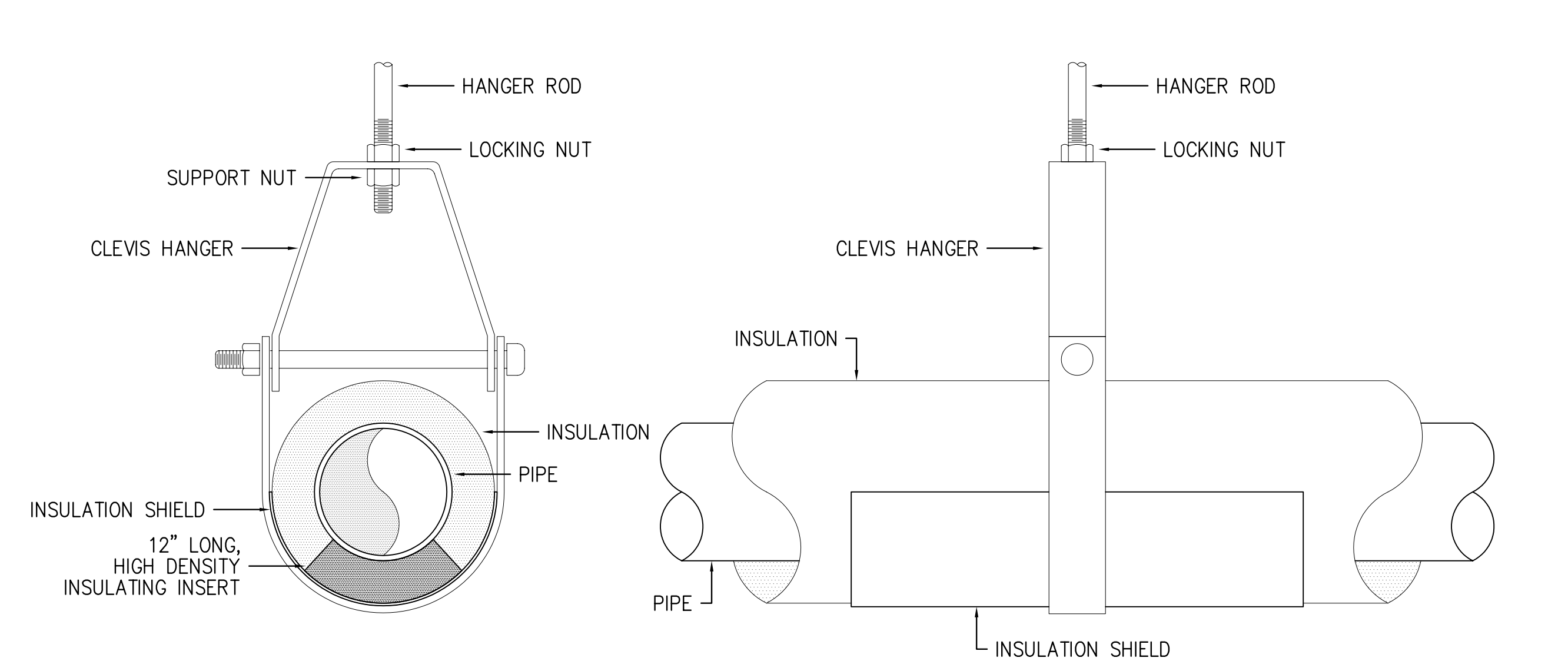
**E4** TYP. PIPE PENETRATION THRU INTERIOR WALL  
NTS VARIES



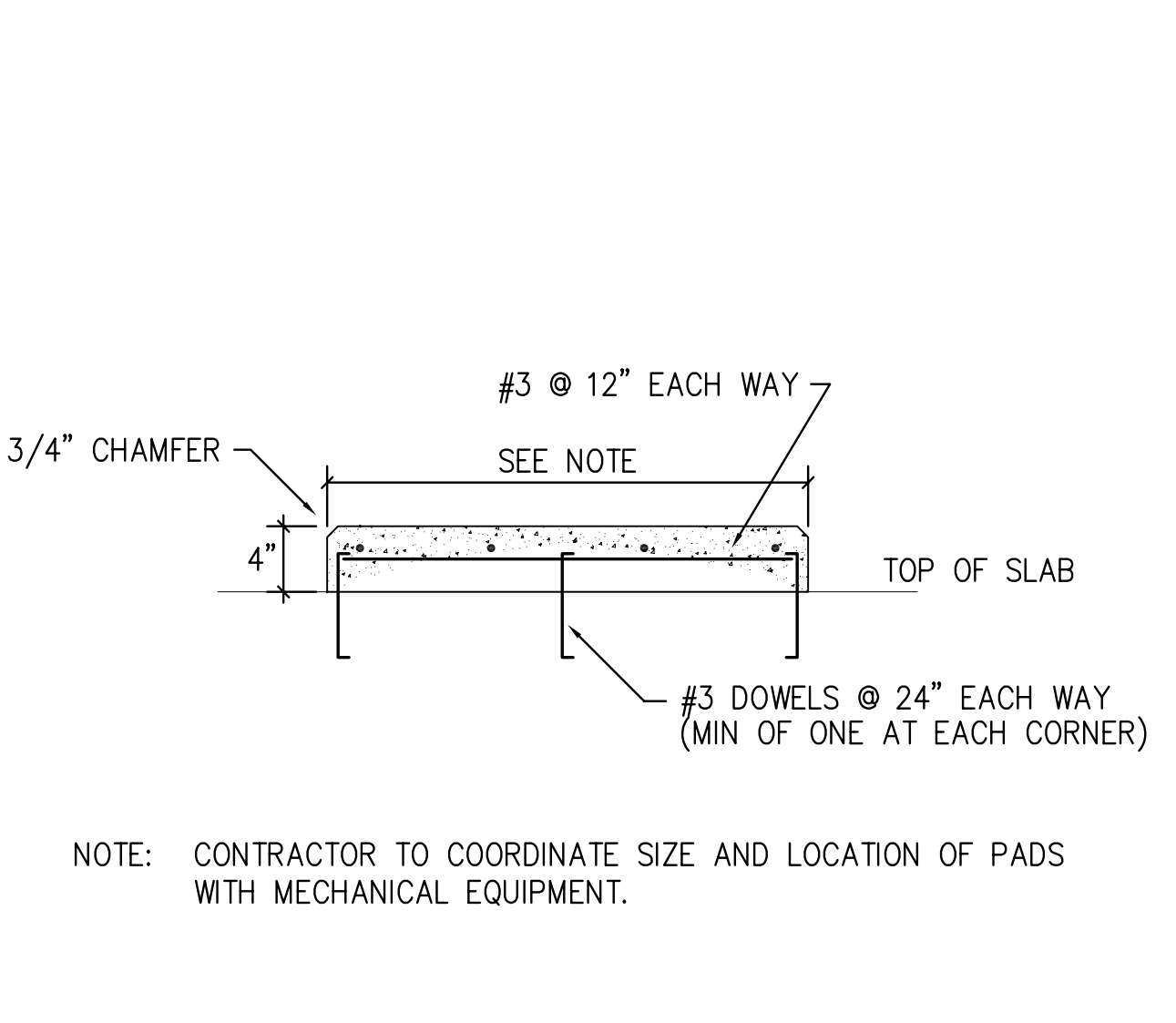
**E11** TYPICAL PIPE DRAIN VALVE CONNECTION  
NTS VARIES



**A1** PIPING IDENTIFICATION LABEL  
NTS VARIES



**A4** TYPICAL CLEVIS HANGER DETAIL  
NTS VARIES



**A11** TYP. HOUSEKEEPING PAD  
NTS VARIES

**GENERAL NOTES**

1. REFER TO MECHANICAL EQUIPMENT SCHEDULES ON M700 SERIES DRAWINGS FOR EQUIPMENT CAPACITIES AND DESIGN CONDITIONS.
2. REFER TO SPECIFICATION SECTION 15250 FOR PIPING, DUCTWORK, AND EQUIPMENT INSULATION REQUIREMENTS.
3. REFER TO SPECIFICATION SECTION 15240 FOR PIPING, DUCTWORK, AND EQUIPMENT VIBRATION ISOLATION REQUIREMENTS.

no.	revisions/submissions	date

PROJECT NO. 34495.01  
DATE: 2/20/02

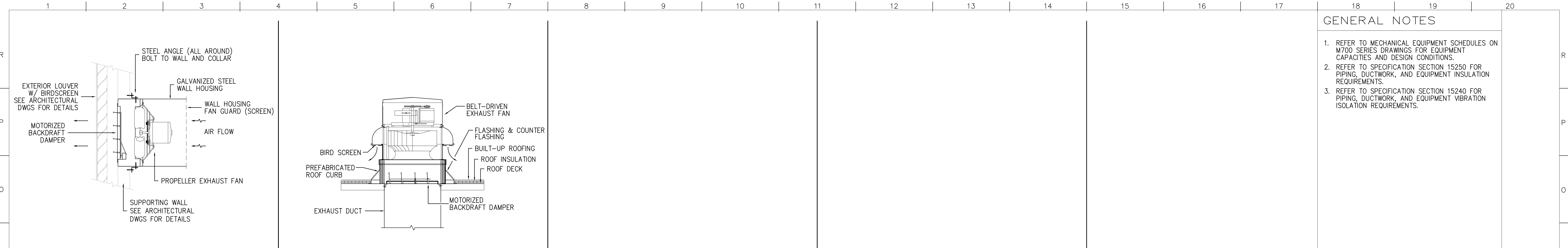
**H502**  
SHEET 20 OF 25

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

MECHANICAL DETAILS  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE

MONTGOMERY COLLEGE APPROVAL  
DATE

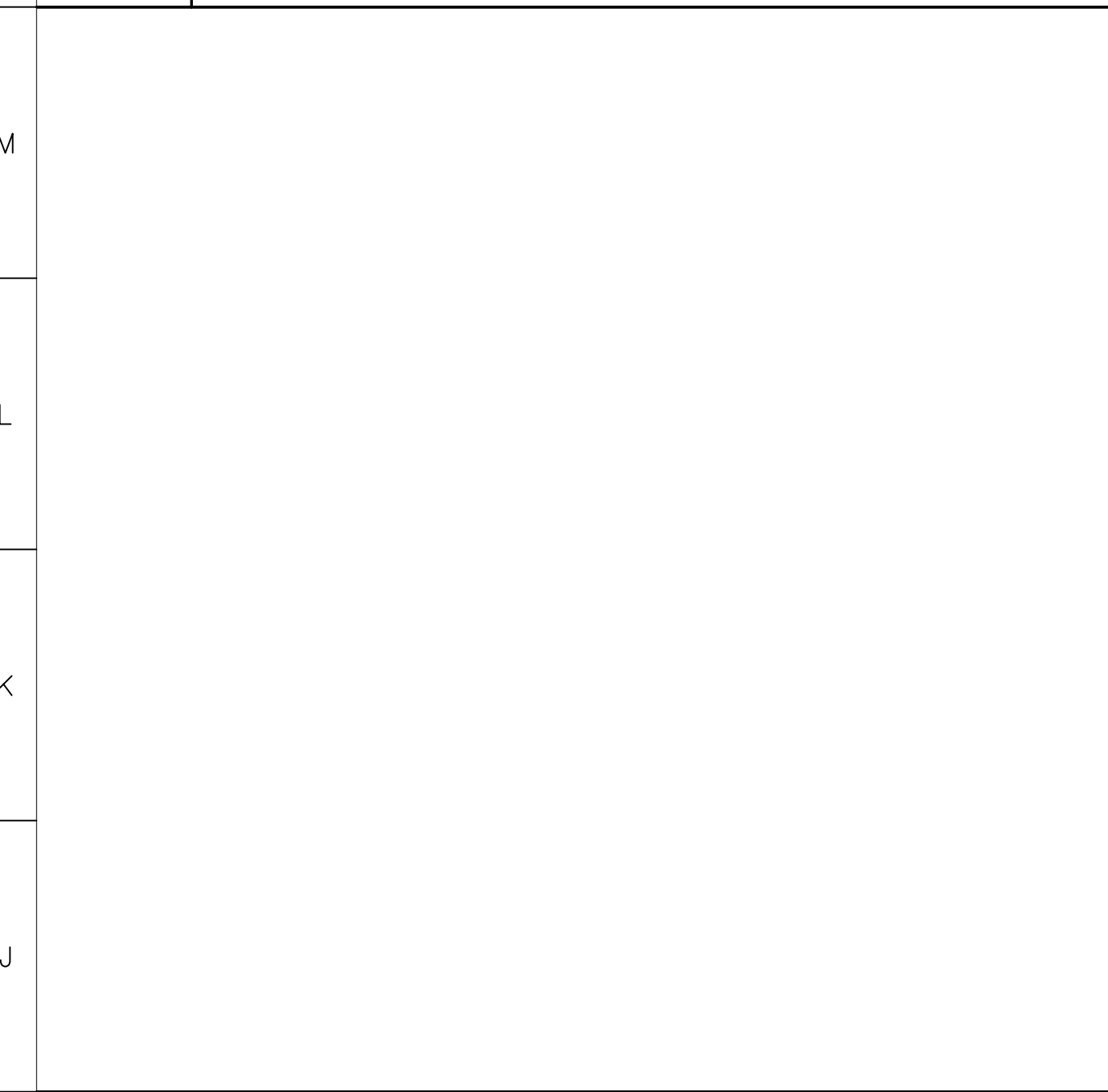


**N1** SIDEWALL PROPELLOR EXHAUST FAN INSTALLATION DETAIL  
NTS

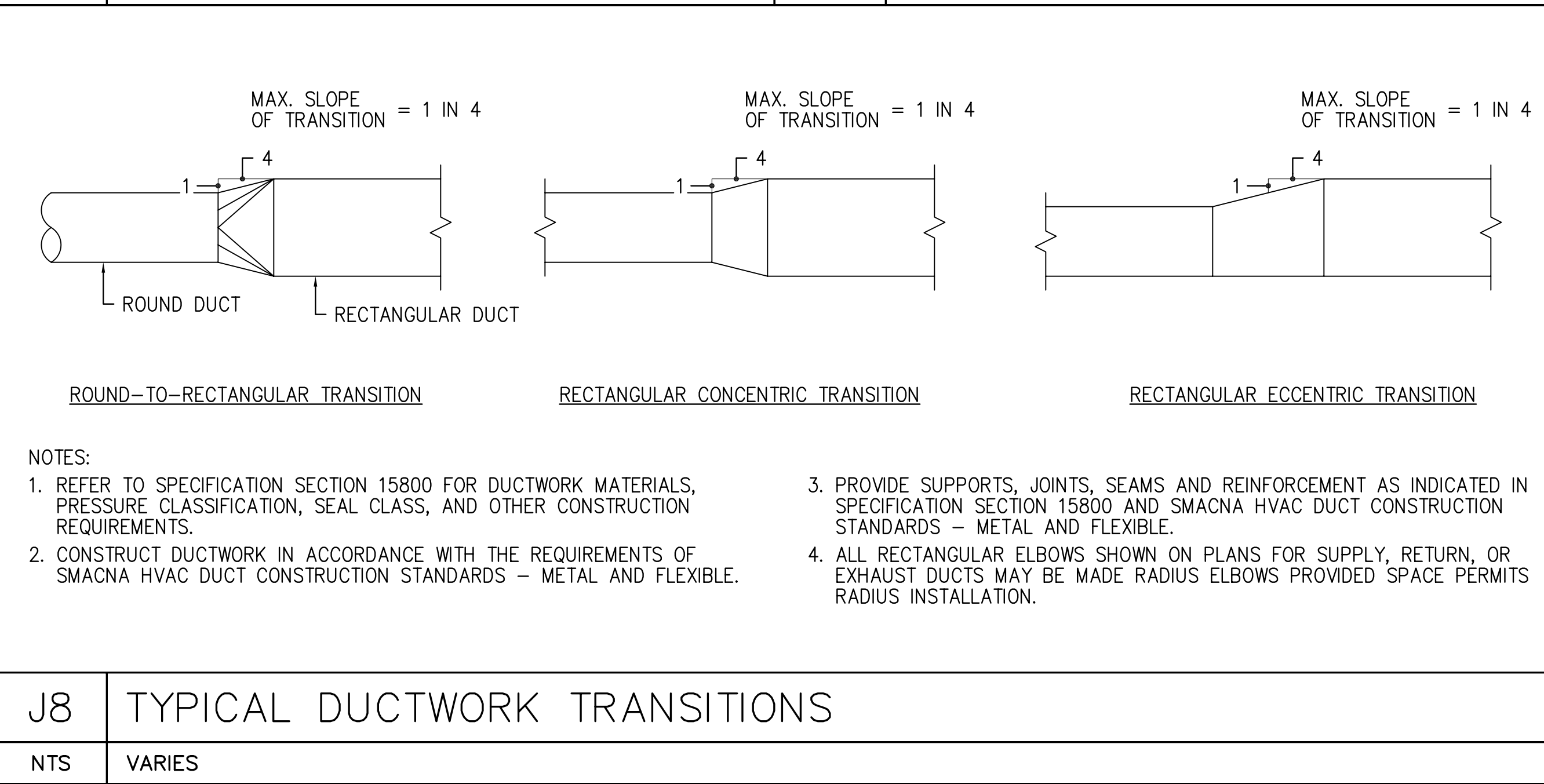
**N4** POWERED ROOF VENTILATOR  
NTS

**N8** NOT USED  
NTS

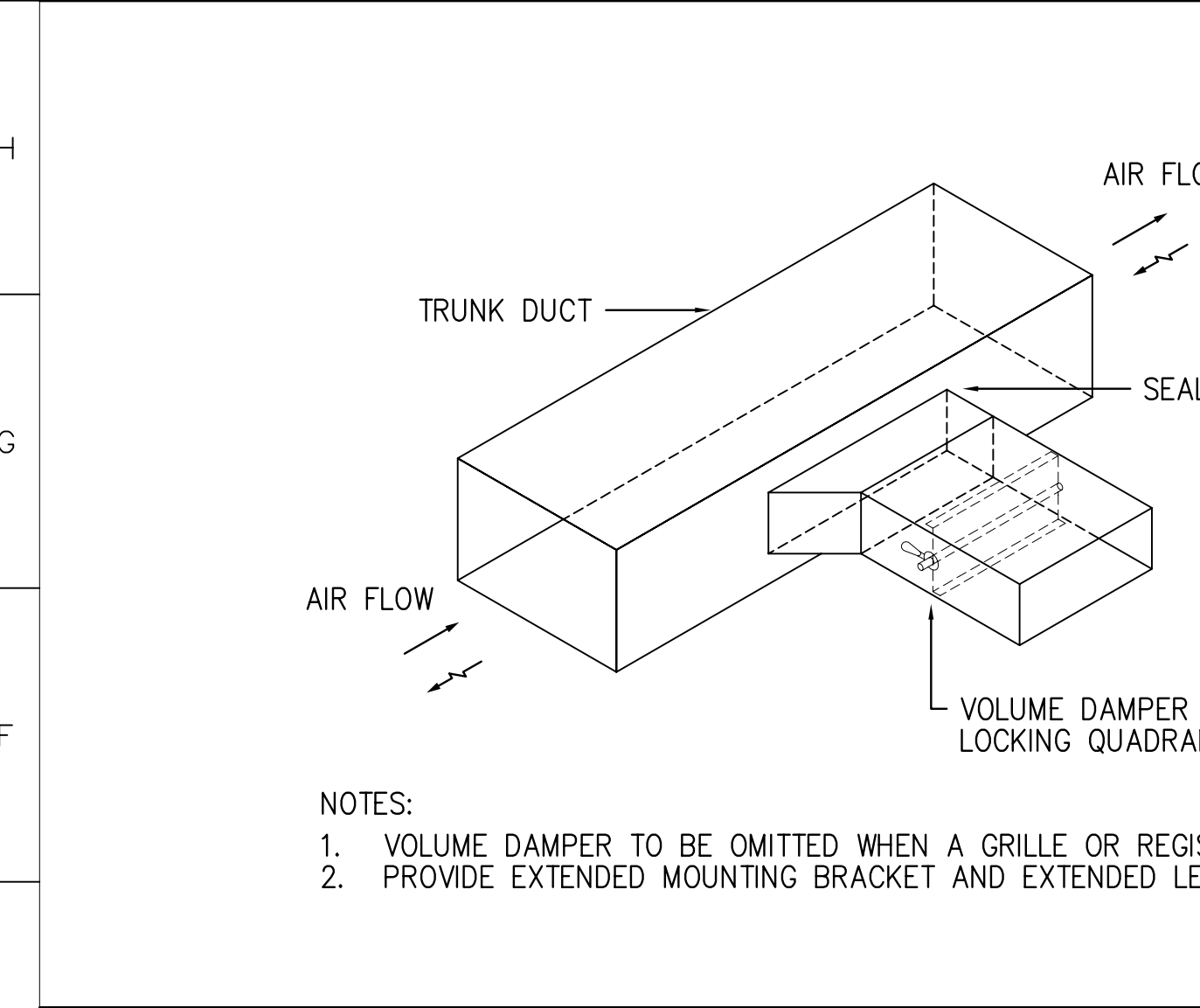
**N11** NOT USED  
NTS



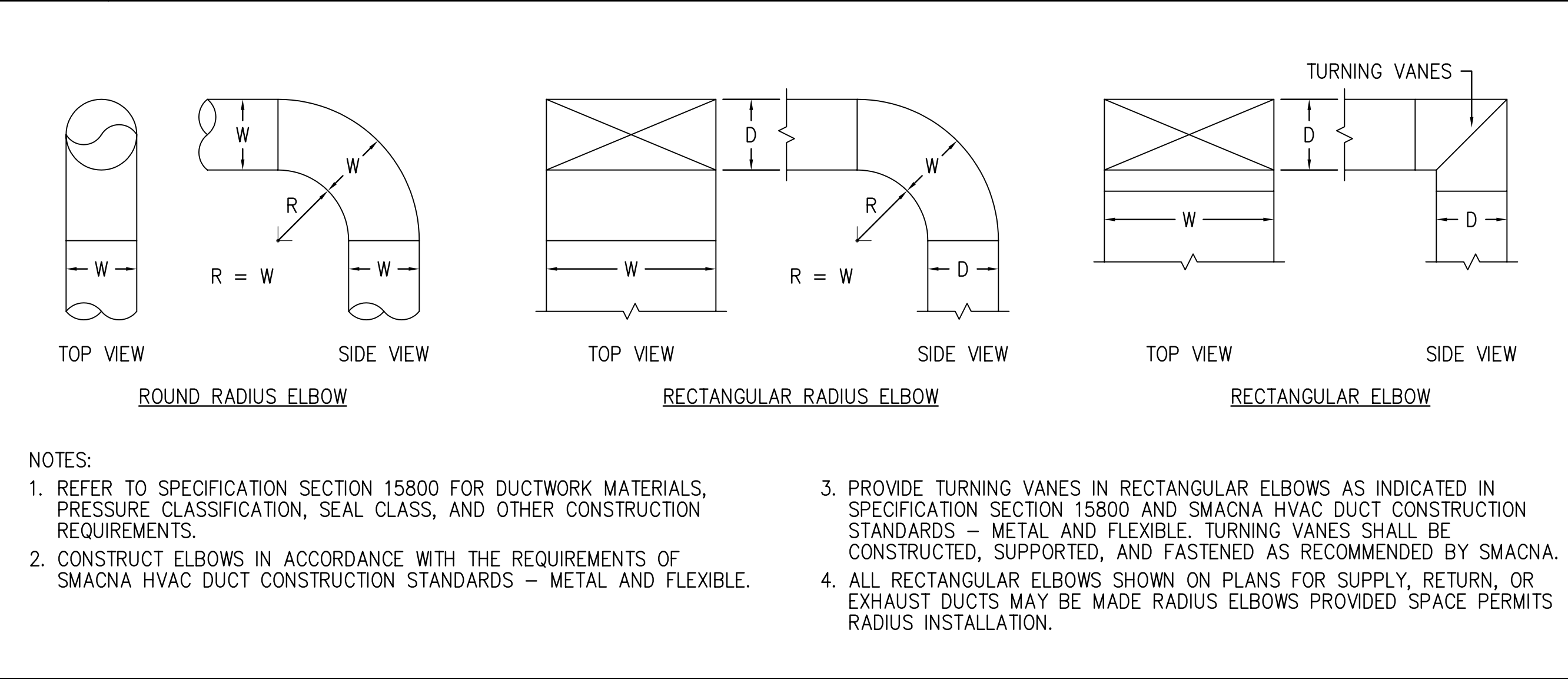
**J4** TYPICAL PERFORATED FACE CEILING DIFFUSER INSTALLATION (LAY-IN)  
NTS VARIES



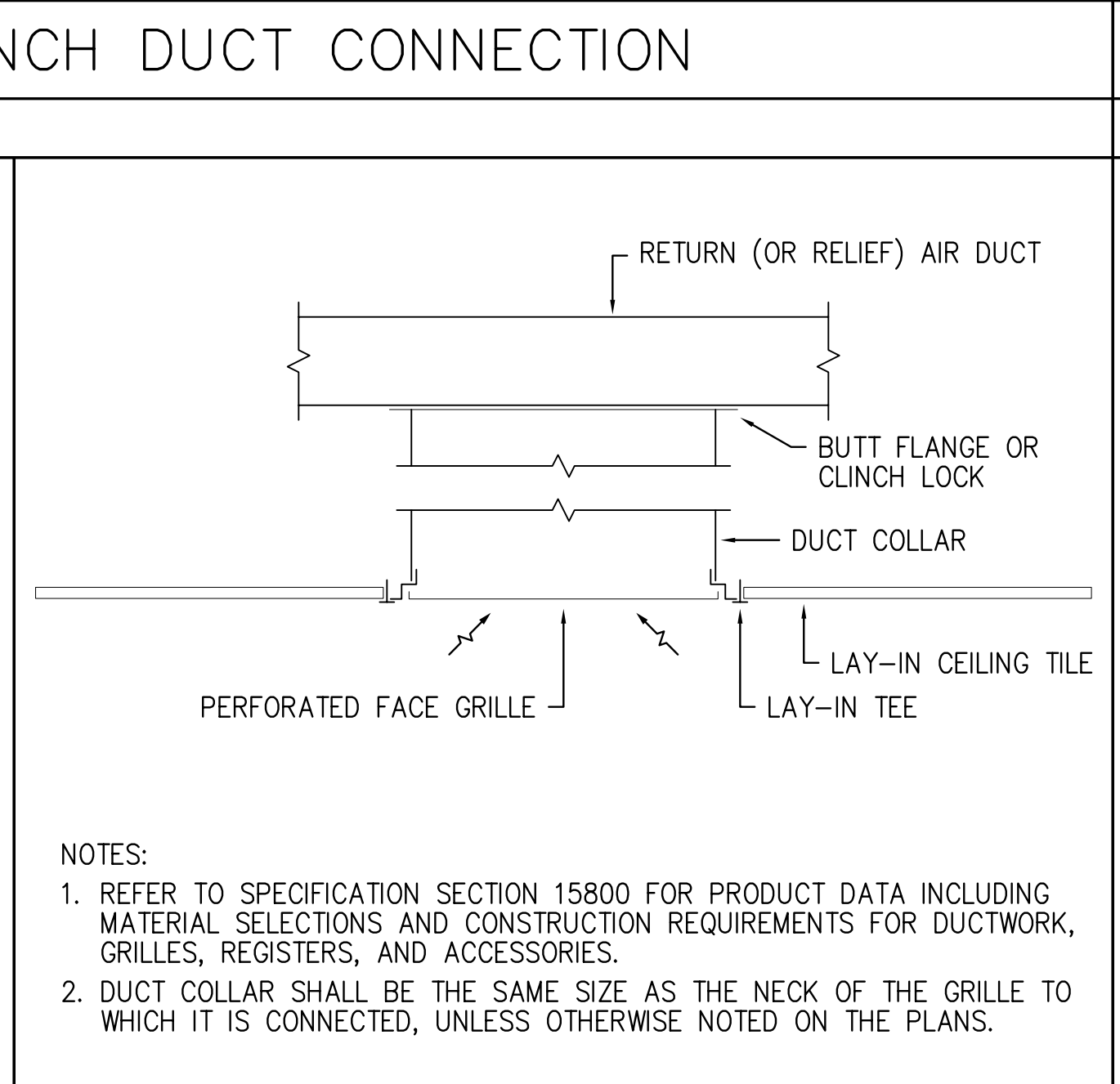
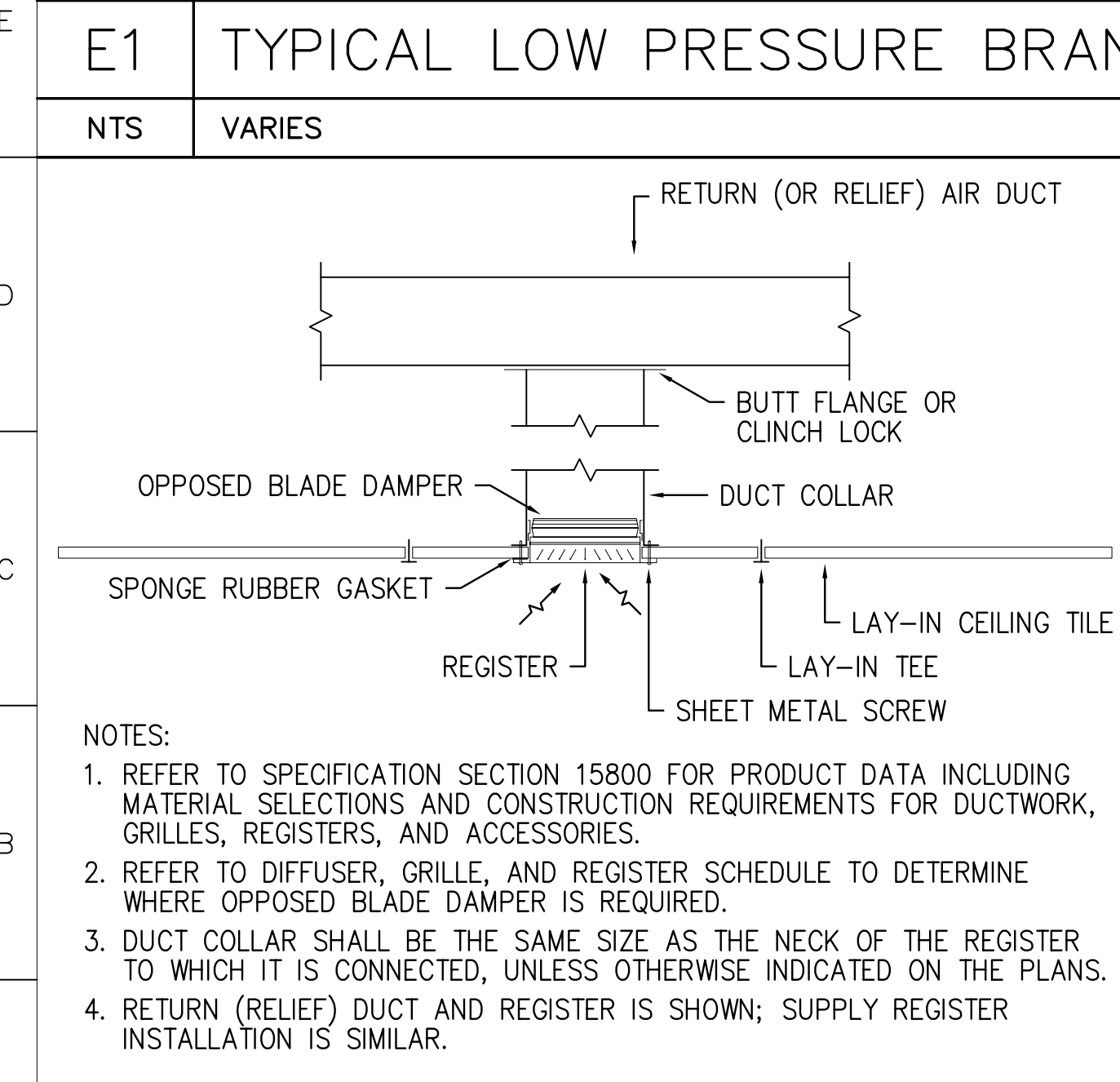
**J8** TYPICAL DUCTWORK TRANSITIONS  
NTS VARIES



**E1** TYPICAL LOW PRESSURE BRANCH DUCT CONNECTION  
NTS VARIES

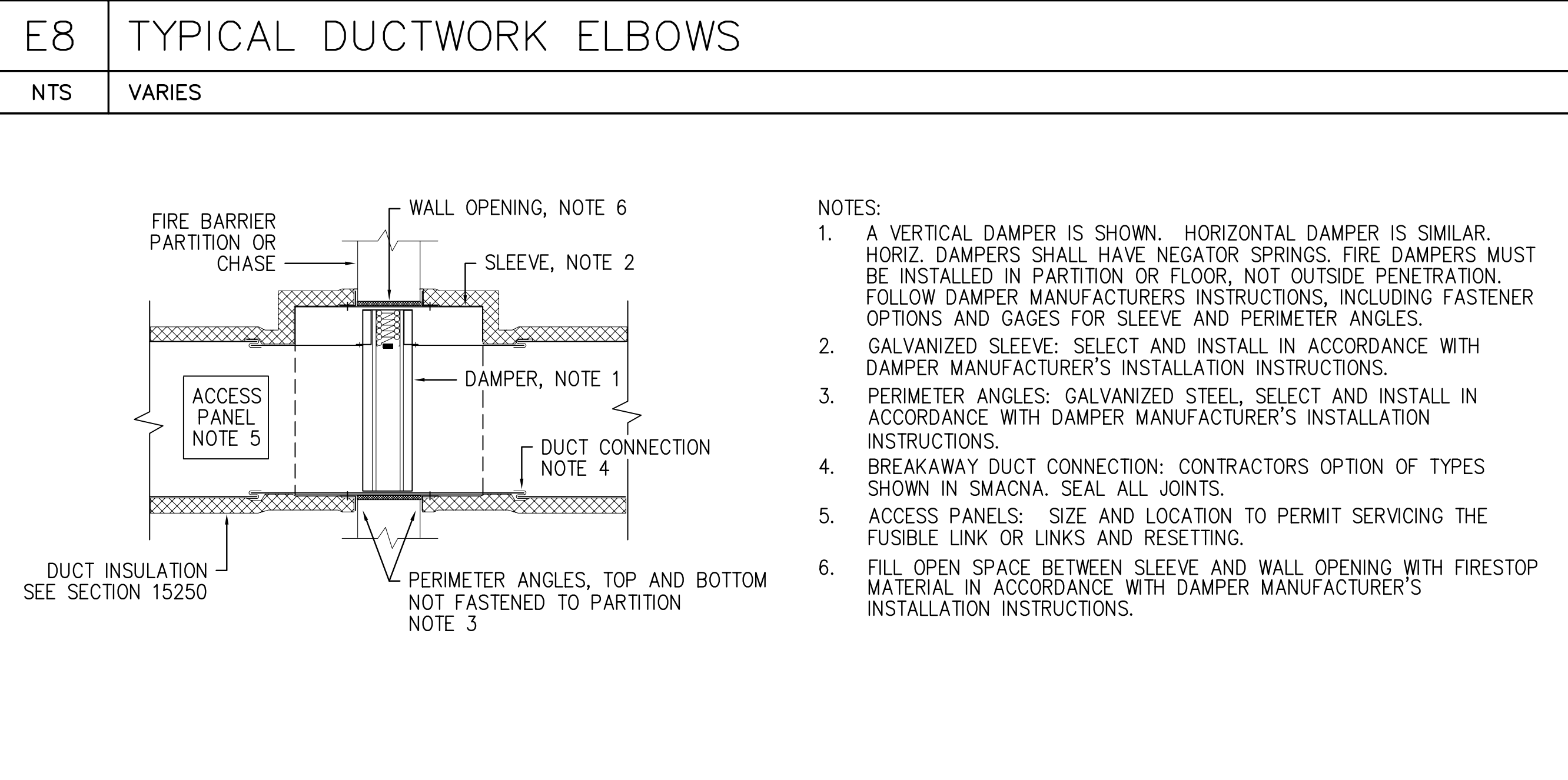


**E8** TYPICAL DUCTWORK ELBOWS  
NTS VARIES



**A1** TYPICAL RETURN (RELIEF) REGISTER INSTALLATION (LAY-IN CEILING)  
NTS VARIES

**A4** TYPICAL PERFORATED FACE GRILLE INSTALLATION (LAY-IN CEILING)  
NTS VARIES



**A8** TYPICAL FIRE DAMPER INSTALLATION DETAIL  
NTS VARIES

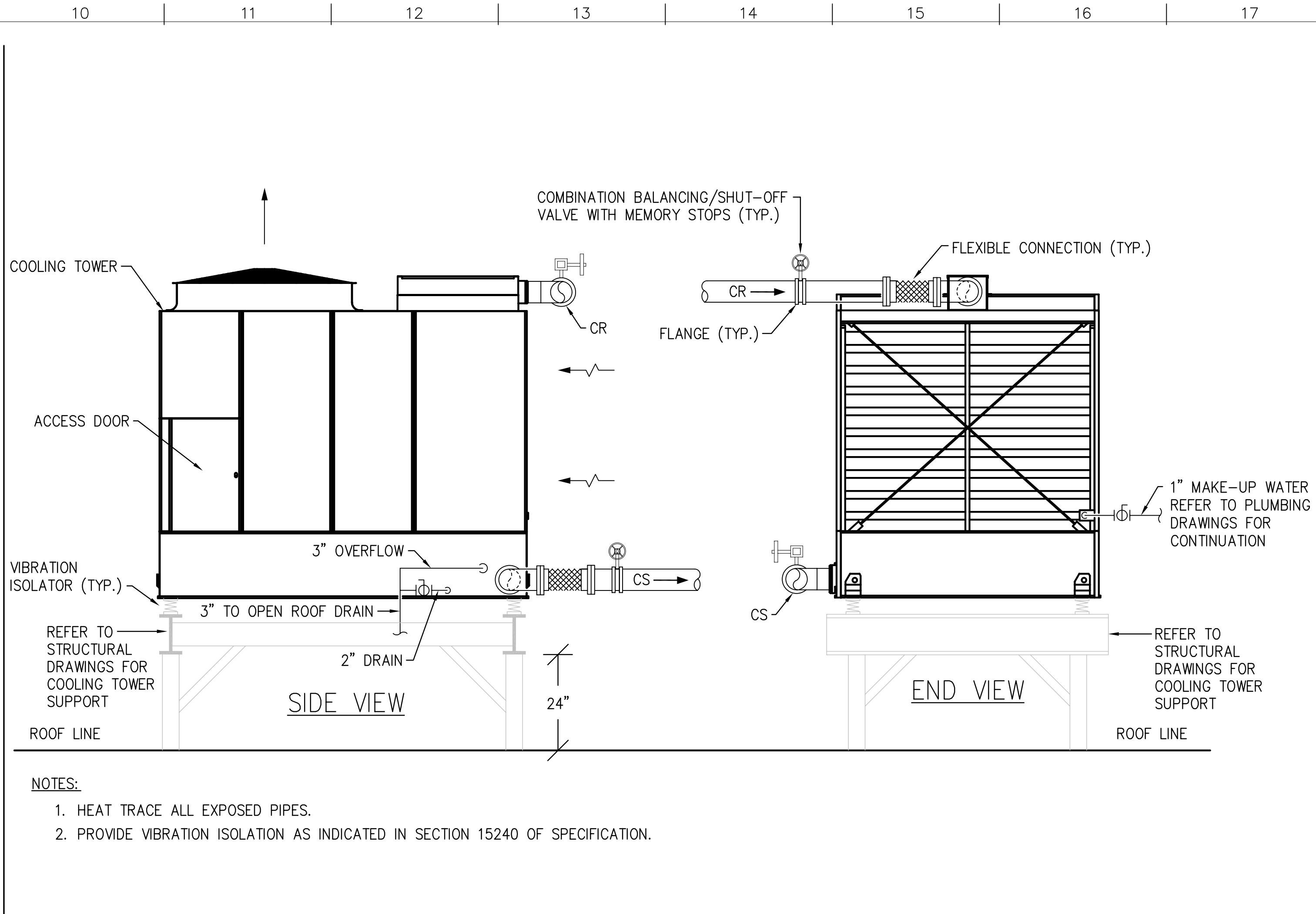
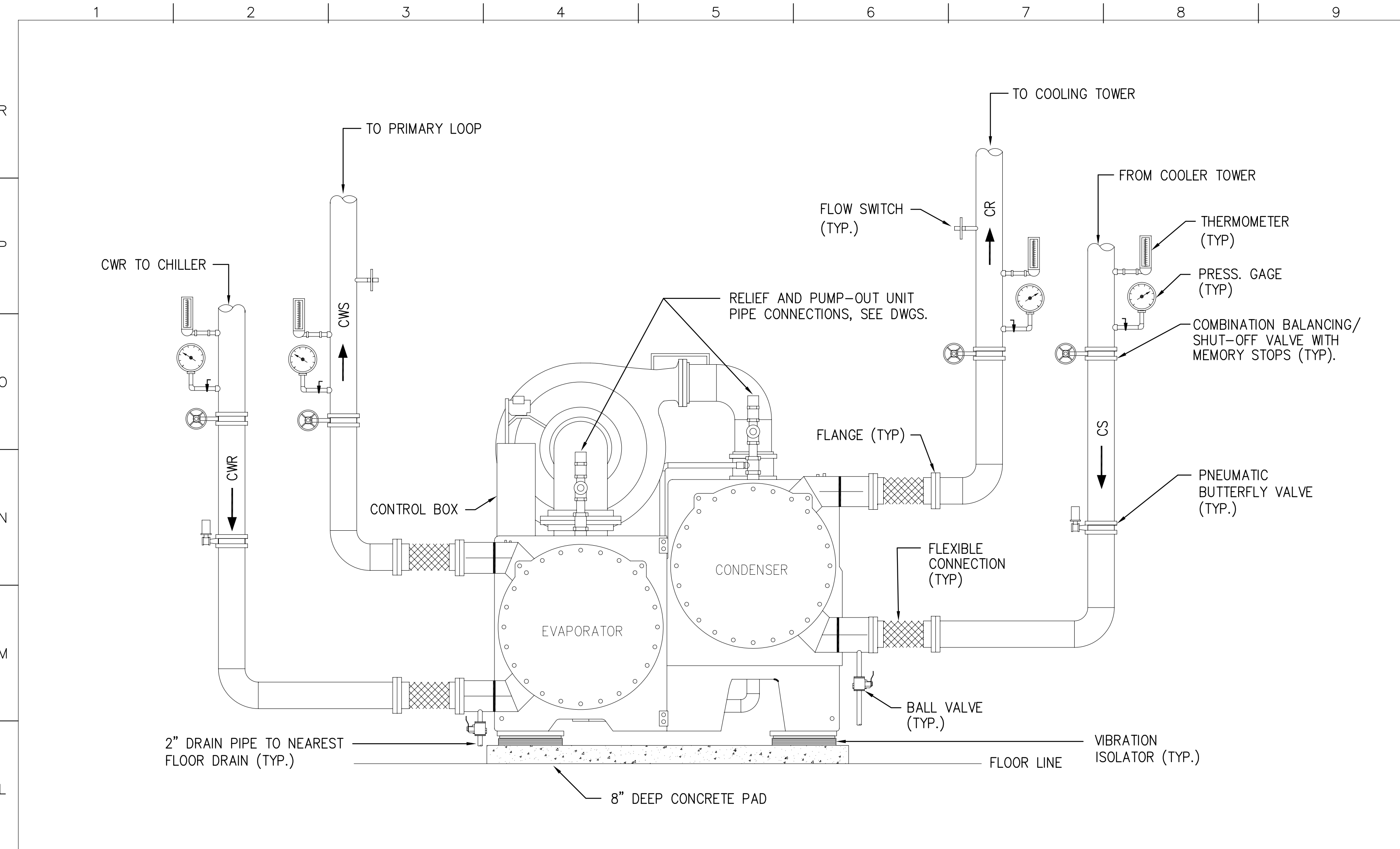
**GENERAL NOTES**

1. REFER TO MECHANICAL EQUIPMENT SCHEDULES ON M700 SERIES DRAWINGS FOR EQUIPMENT CAPACITIES AND DESIGN CONDITIONS.
2. REFER TO SPECIFICATION SECTION 15250 FOR PIPING, DUCTWORK, AND EQUIPMENT INSULATION REQUIREMENTS.
3. REFER TO SPECIFICATION SECTION 15240 FOR PIPING, DUCTWORK, AND EQUIPMENT VIBRATION ISOLATION REQUIREMENTS.

no.	revisions/submissions	date

PROJECT NO. 134495.01  
 DATE: 2/20/02  
**H503**  
 SHEET 21 OF 25  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE  
 MONTGOMERY COLLEGE APPROVAL  
 DATE  
 TITLE

19 FEB 2002 9:55 am  
 Plotted by Bric

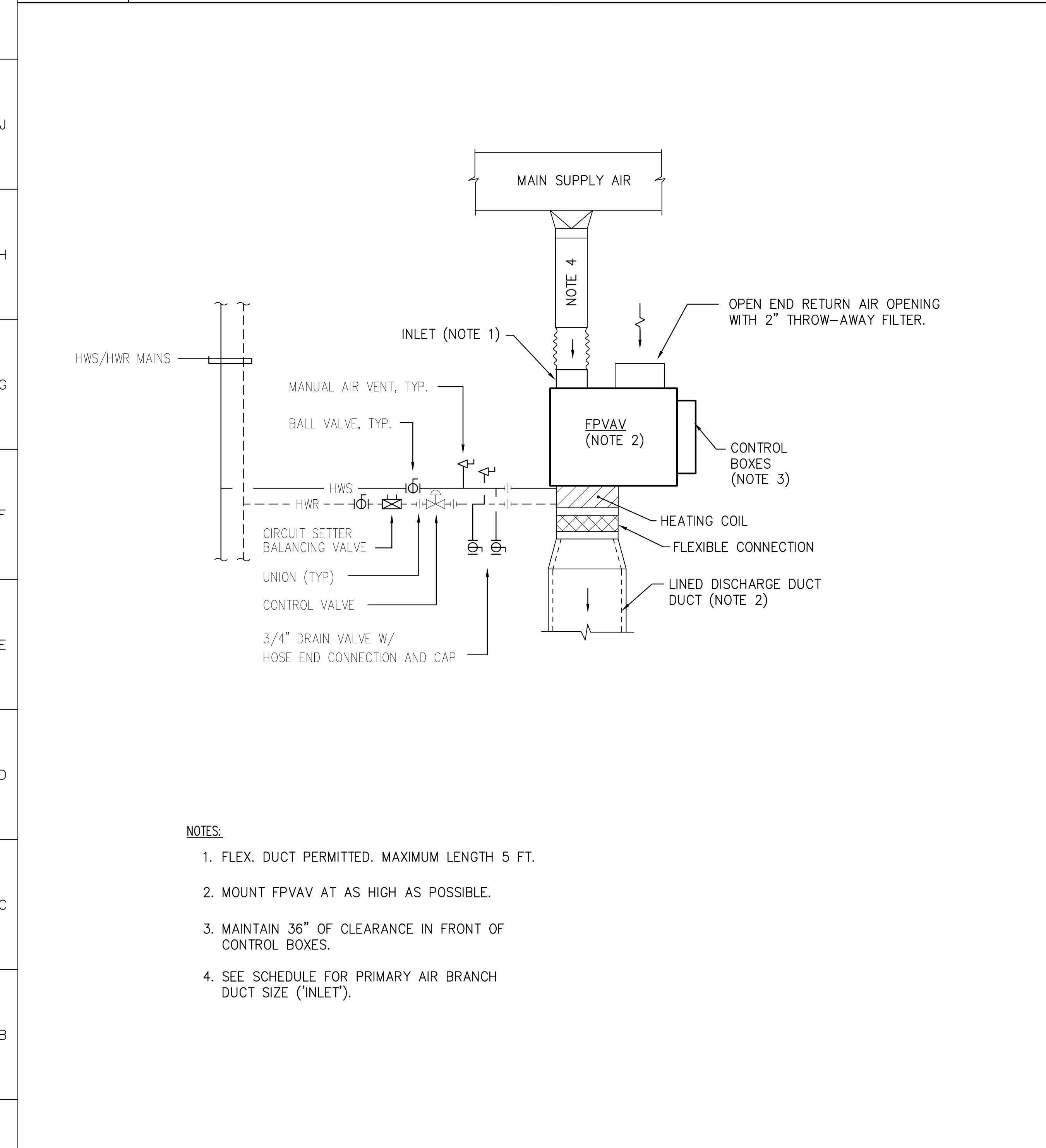


**GENERAL NOTES**

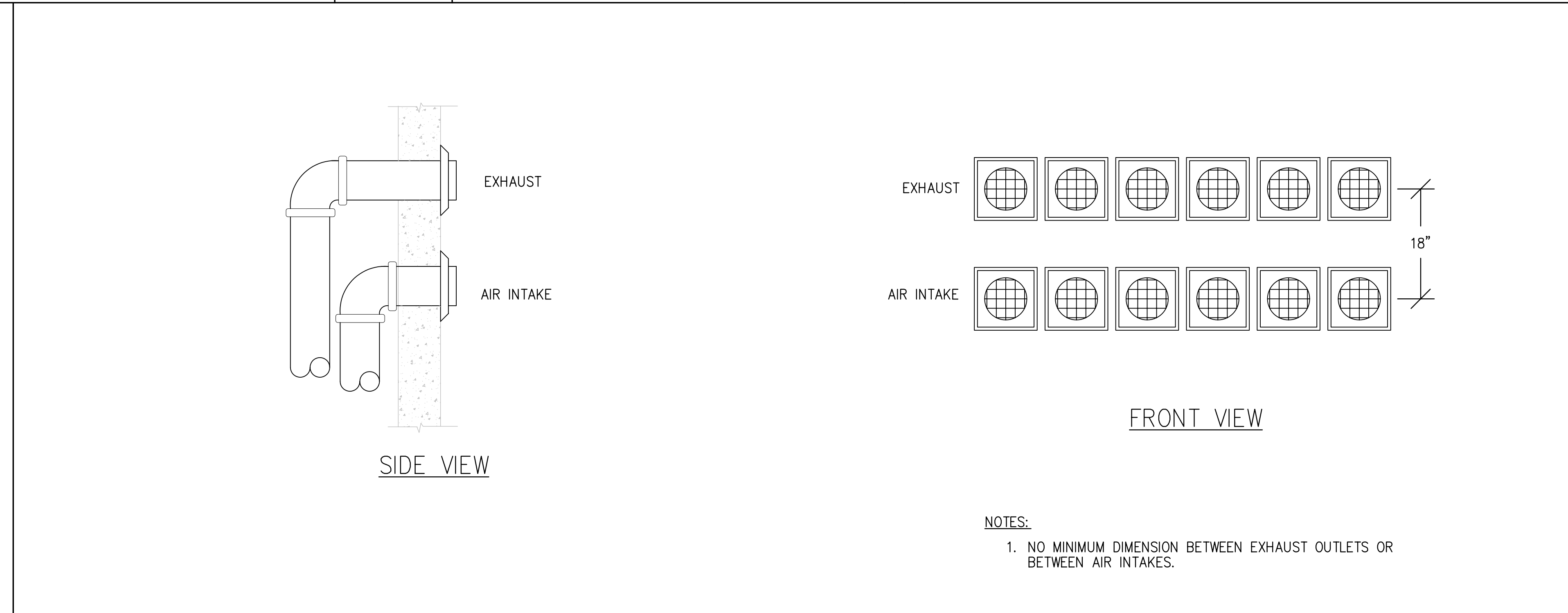
- REFER TO MECHANICAL EQUIPMENT SCHEDULES ON M700 SERIES DRAWINGS FOR EQUIPMENT CAPACITIES AND DESIGN CONDITIONS.
- REFER TO SPECIFICATION SECTION 15250 FOR PIPING, DUCTWORK, AND EQUIPMENT INSULATION REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 15240 FOR PIPING, DUCTWORK, AND EQUIPMENT VIBRATION ISOLATION REQUIREMENTS.

**K1 WATER CHILLER PIPING CONNECTION DETAIL**  
N.T.S.

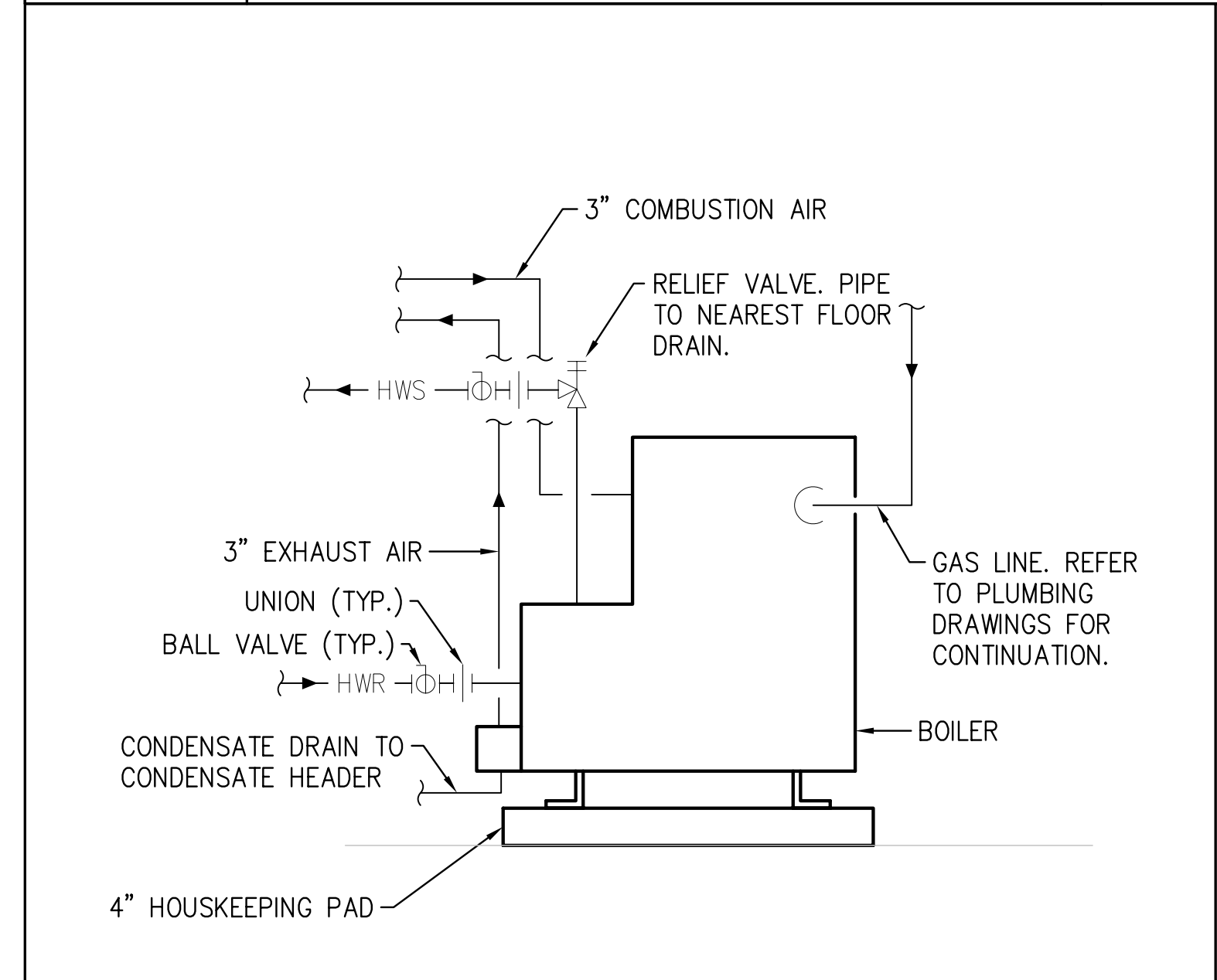
**K10 COOLING TOWER CONNECTION DETAIL**  
N.T.S.



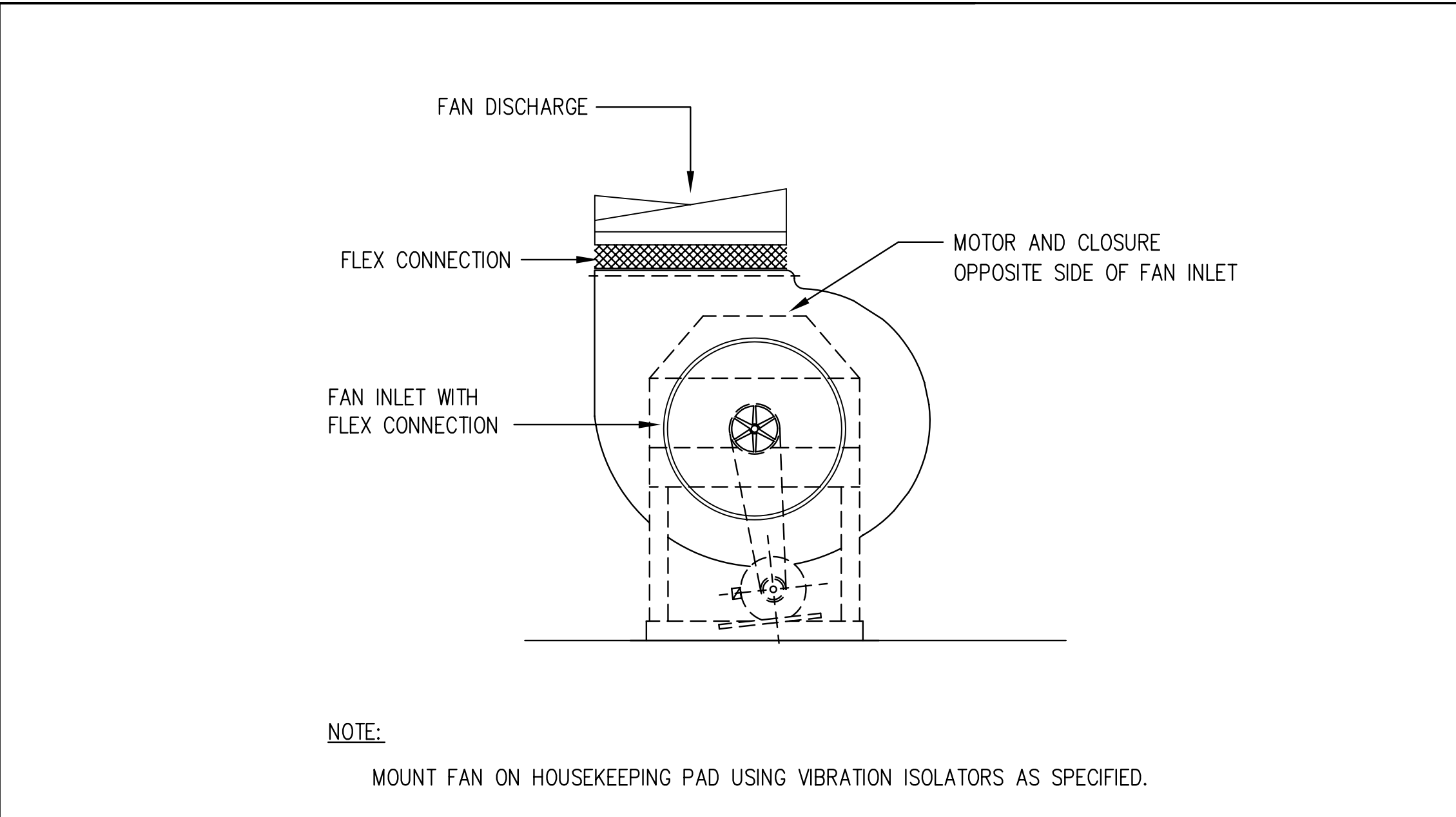
**A1 FAN-POWERED VAV TERMINAL DETAIL**  
N.T.S.



**E8 BOILER FLUE TERMINATIONS**  
N.T.S.



**A8 BOILER DETAIL**  
N.T.S.



**A12 UTILITY SET FAN DETAIL**  
N.T.S.

no.	revisions/submissions	date

PROJECT NO. 34495.01  
DATE: 2/20/02

**H504**  
SHEET 22 OF 25

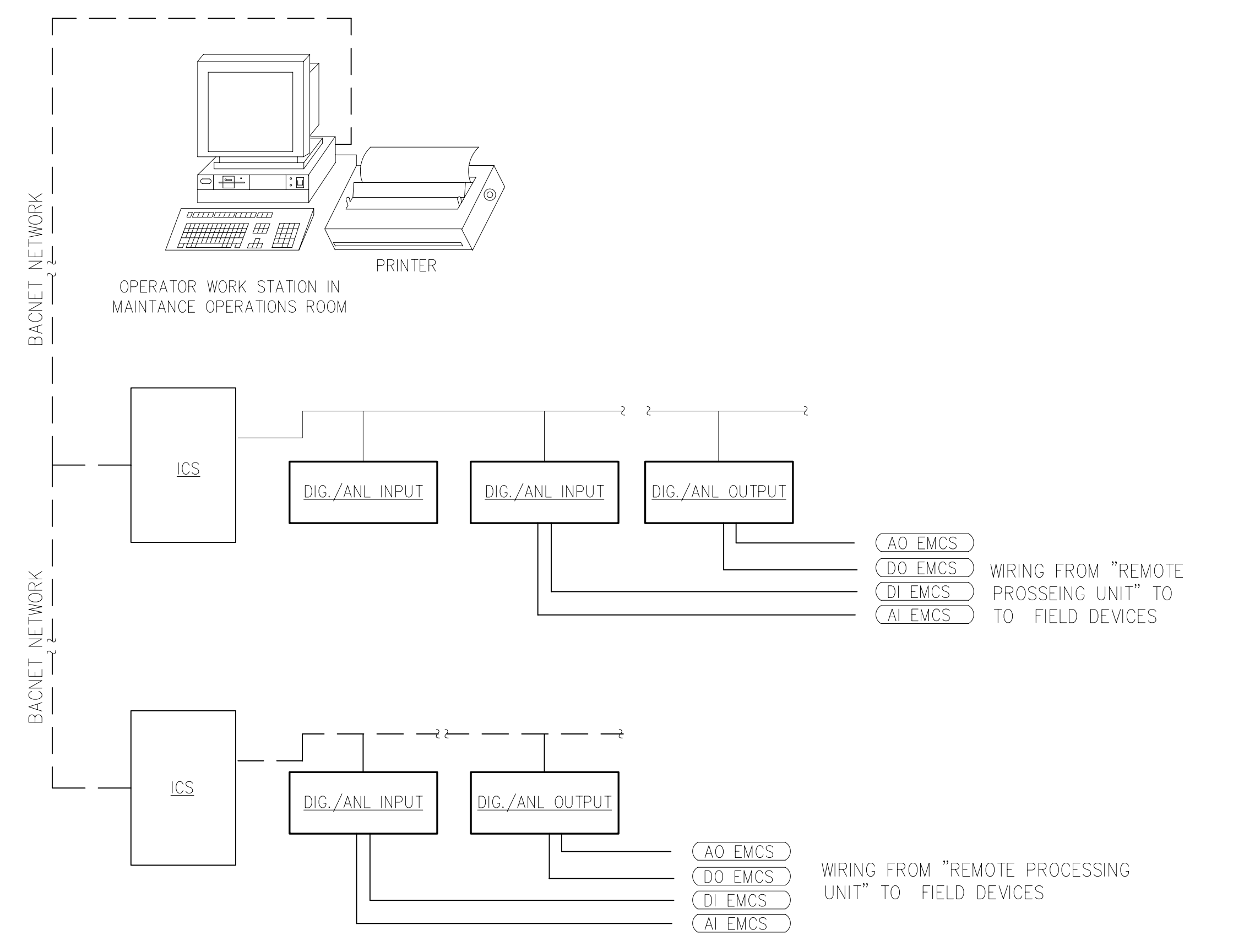
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

MECHANICAL DETAILS  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE

MONTGOMERY COLLEGE APPROVAL  
DATE

KEY NOTES

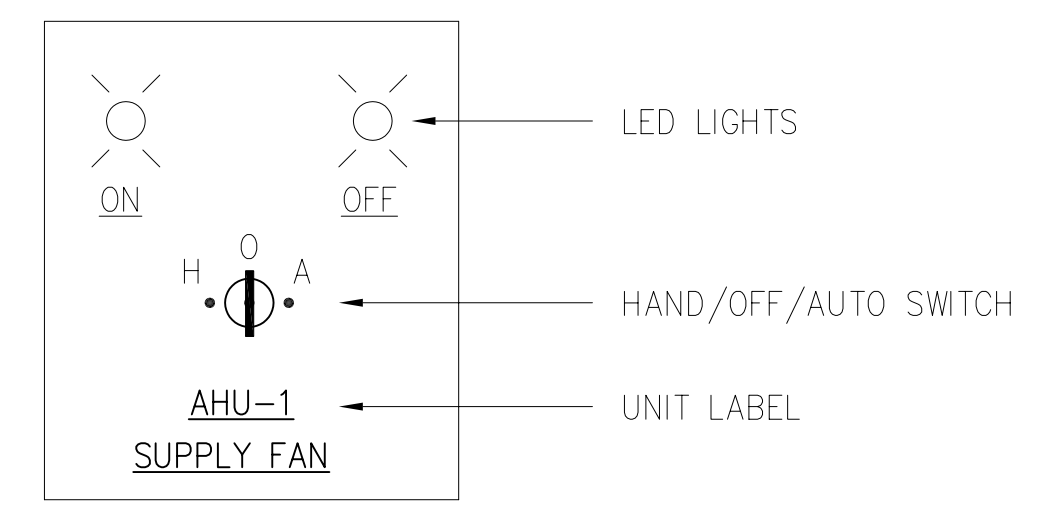


L11 EMS ARCHITECTURE DIAGRAM

NTS

GENERAL NOTES

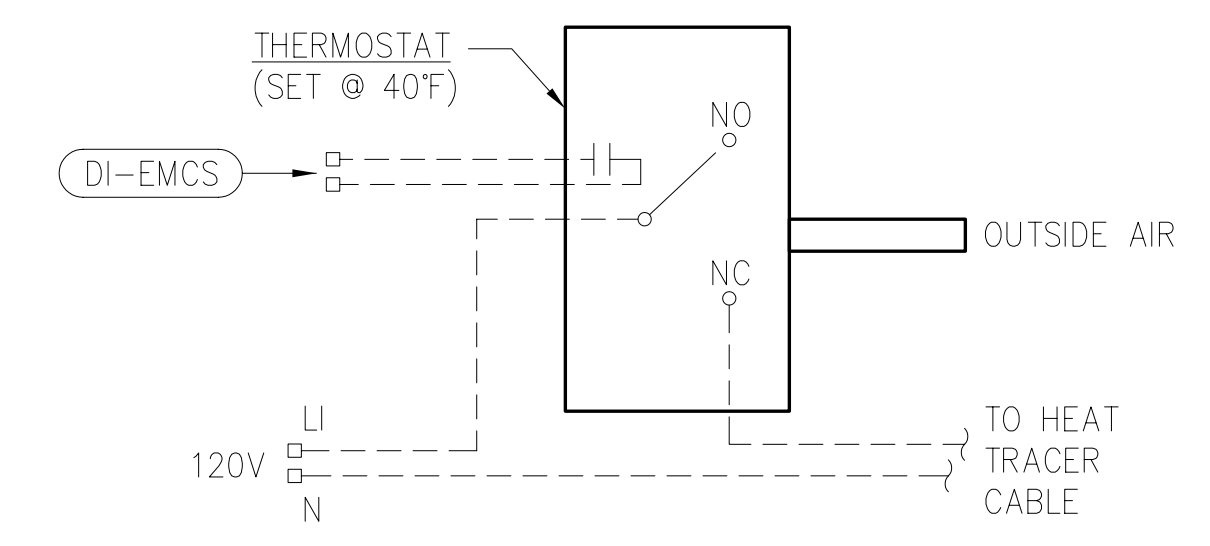
- REFER TO DRAWING H001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.



- NOTES:
- LOCATE PANELS IN FIRE CONTROL ROOM ON GROUND FLOOR.
  - ATC CONTRACTOR RESPONSIBLE FOR ALL WIRING BETWEEN VARIABLE FREQUENCY DRIVES (AHU-1, AHU-2) AND MANUAL OVERRIDE PANEL.

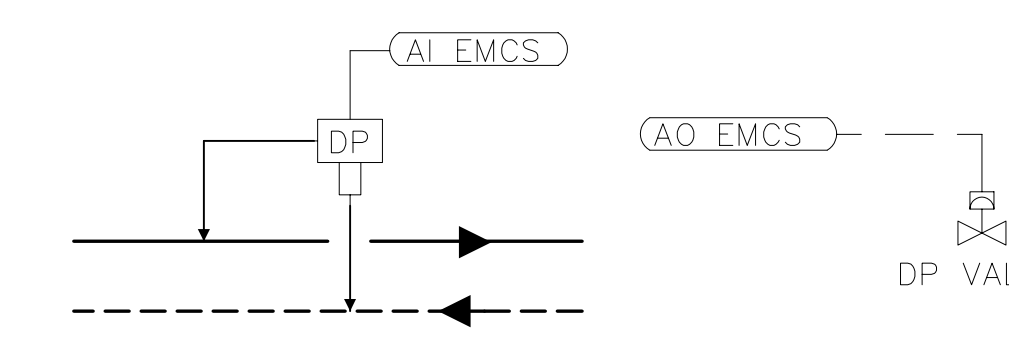
G6 MANUAL OVERRIDE PANEL

NTS



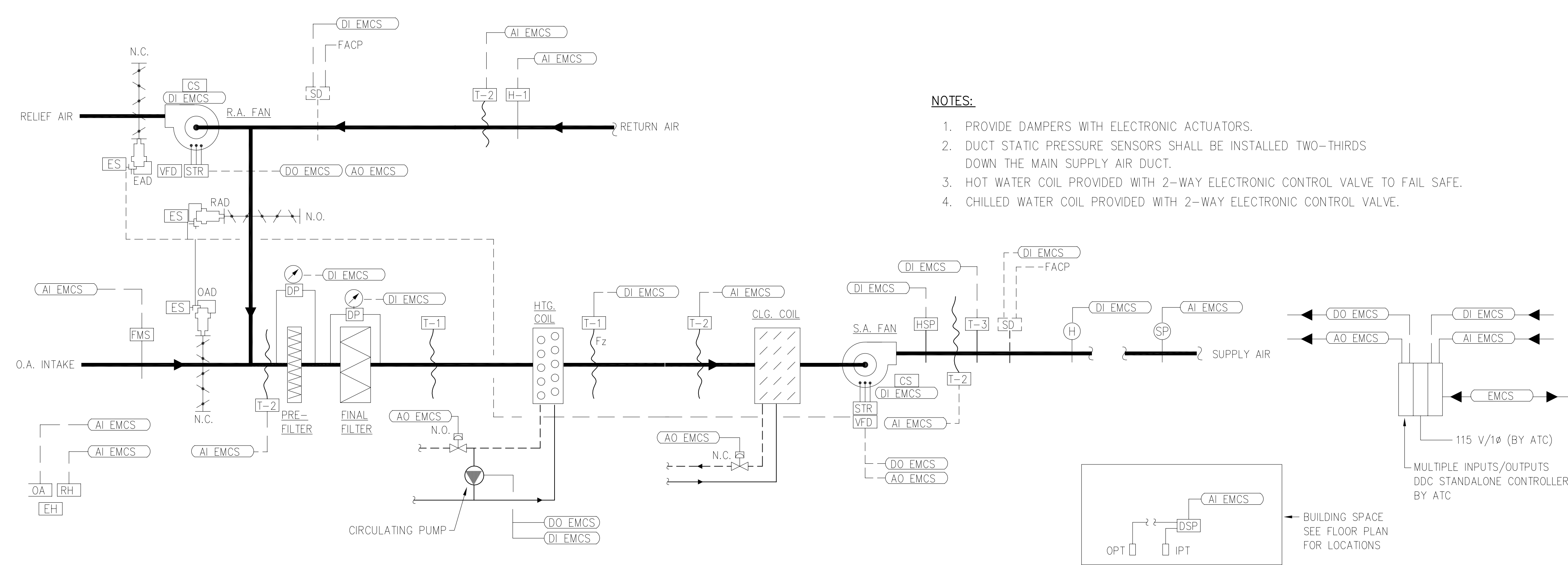
G9 HEAT TRACE WIRING

NTS



G13 DIFFERENTIAL PRESSURE LOOP CONTROL

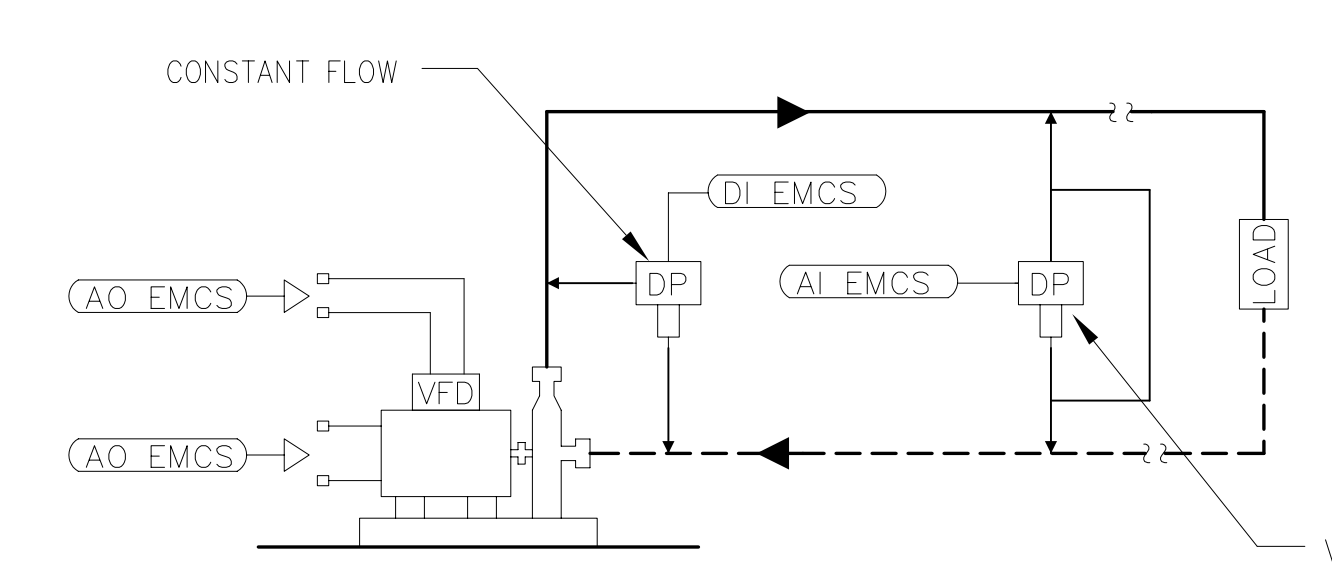
NTS



- NOTES:
- PROVIDE DAMPERS WITH ELECTRONIC ACTUATORS.
  - DUCT STATIC PRESSURE SENSORS SHALL BE INSTALLED TWO-THIRDS DOWN THE MAIN SUPPLY AIR DUCT.
  - HOT WATER COIL PROVIDED WITH 2-WAY ELECTRONIC CONTROL VALVE TO FAIL SAFE.
  - CHILLED WATER COIL PROVIDED WITH 2-WAY ELECTRONIC CONTROL VALVE.

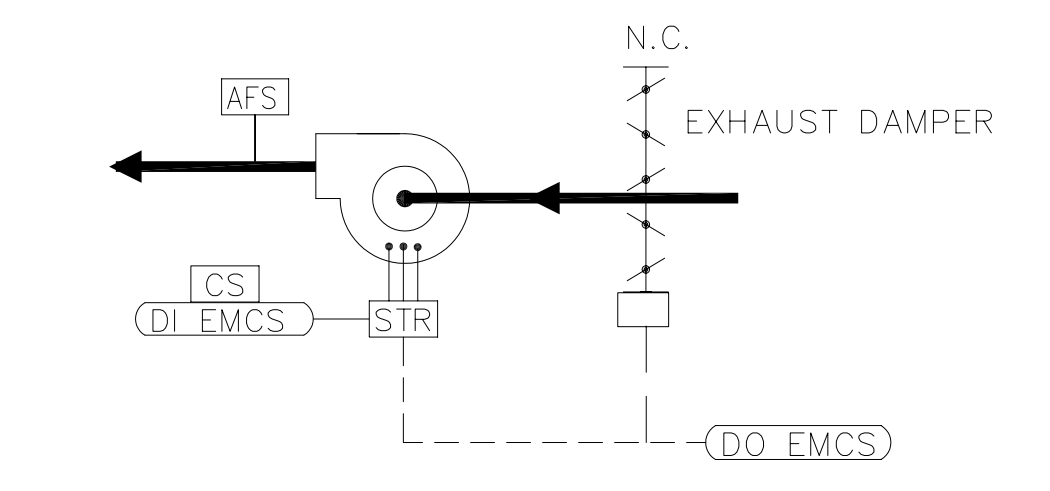
A1 VAV AIR HANDLING UNIT CONTROL

NTS AHU-1, AHU-2



D13 PUMP CONTROL FLOW DIAGRAM

NTS 2 REQUIRED FOR VFD, 4 REQUIRED FOR CONSTANT FLOW



- NOTES:
- SINGLE PHASE DIAGRAM IS SIMILAR.

A13 EXHAUST FAN CONTROL DIAGRAM

NTS

no.	revisions/submissions	date

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 H601  
 SHEET 23 OF 25  
 PROJECT NO. 34499.01  
 DATE: 2/20/02

AIR CONDITIONING DESIGN DATA SCHEDULE

Table with columns: DESIGN AREA, OUTSIDE (SUMMER, WINTER), INSIDE (SUMMER, WINTER), and REMARKS. Includes data for THROUGH OUT with values like 91, 74, 78, 50, 13, 70.

NOTE: THE CONTENTS OF THIS SCHEDULE REFLECT DESIGN CONDITIONS ONLY. THE CONTRACTOR SHALL REFER TO THE VARIOUS EQUIPMENT SCHEDULES AND SPECIFICATIONS FOR SPECIFIC CAPACITIES AND SETPOINTS.

VIBRATION ISOLATOR TYPES

Table with columns: BASES, SUPPORTS, HANGERS. Includes descriptions for B1 (NONE), B2 (STRUCTURAL STEEL RAILS OR BASE), B3 (CONCRETE INERTIA BASE), B4 (CURB-MOUNTED BASE) and their corresponding support and hanger types.

CENTRIFUGAL CHILLER SCHEDULE

Table with columns: UNIT NO, LOCATION, SERVES, CAPACITY DATA, EVAPORATOR DATA, CONDENSER DATA, ELECTRICAL DATA, VIBRATION ISOLATION, OPERATING WEIGHT, BASIS OF DESIGN, REMARKS. Includes data for CH-1.

NOTE: 1. NO SUBSTITUTIONS.

COOLING TOWER SCHEDULE

Table with columns: UNIT NO, LOCATION, SERVES, NOM TONS, GPM, EWT, LWT, EAT, FAN TYPE, INDUCED DRAFT, ELECTRIC SUMP HEATER DATA, ELECTRIC MOTOR DATA, VIBRATION ISOLATION, OPERATING WEIGHT, BASIS OF DESIGN, REMARKS. Includes data for CT-1.

NOTE: 1. PROVIDE ONE ELECTRICAL POWER CONNECTION FOR TOWER FANS AND CONTROLS, AND A SEPARATE CONNECTION FOR SUMP HEATERS. 2. NO SUBSTITUTIONS.

CONDENSING HOT WATER BOILER SCHEDULE

Table with columns: UNIT NO, LOCATION, SERVICE, BOILER TYPE, OUTPUT, DESIGN PRESSURE, RELIEF VALVE SETTING, EWT/LWT, FLOW RATE, PD, MIN EFF, FUEL DATA, ELECTRICAL DATA, OPERATING WEIGHT, BASIS OF DESIGN, REMARKS. Includes data for B-1 through B-6.

NOTE: 1. NO SUBSTITUTIONS.

PUMP SCHEDULE

Table with columns: UNIT NO, LOCATION, SERVES, GPM, HEAD, EFF, PUMP TYPE, PUMPED FLUID, VSD, ELECTRIC MOTOR DATA, VIBRATION ISOLATION, OPERATING WEIGHT, BASIS OF DESIGN, REMARKS. Includes data for P-1 through P-17.

NOTE: 1. NO SUBSTITUTIONS.

HYDRONIC SYSTEM AIR CONTROL SCHEDULE

Table with columns: SYSTEM, UNIT NO, LOCATION, GPM, AIR SEPARATOR CONNECTION SIZES, OPERATING WEIGHT, BASIS OF DESIGN, UNIT NO, LOCATION, TANK VOLUME, ACCEPT VOLUME, DIA, LENGTH, OPERATING WEIGHT, BASIS OF DESIGN, REMARKS. Includes data for CWS/R and HWS/R.

HOT WATER CONVECTOR SCHEDULE

Table with columns: UNIT NO, LOCATION, MIN. CAPACITY, EAT, EWT/LWT, FLOW, SIZE (HEIGHT, DEPTH, LENGTH), MOUNTING, BASIS OF DESIGN, REMARKS. Includes data for C-1 through C-7.

NOTES: 1. PROVIDE KNOB-OPERATED DAMPER, ACCESS DOOR(S), AND SIDE KNOCKOUTS WHERE UNITS ARE NOT PIPED FROM BELOW. 2. PROVIDE COLOR CHART WITH THE PRODUCT DATA SUBMITTAL SHOWING THE MANUFACTURER'S STANDARD CABINET COLORS FOR FINAL COLOR SELECTION BY THE ARCHITECT.

COOLING TOWER BASIN CLEANING SYSTEM

Table with columns: UNIT NO, LOCATION, SERVES, SYSTEM ACTIVITY RATE, PUMP DATA, SEPARATOR MODEL, ELECTRICAL DATA, PIPING CONNECTIONS, DRY WEIGHT, BASIS OF DESIGN. Includes data for BCS-1.

GENERAL NOTES

- 1. REFER TO DRAWING M001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.
2. MECHANICAL EQUIPMENT SCHEDULES CONTAIN ONLY MINIMUM CAPACITY, PERFORMANCE, AND ACCESSORY DATA. REFER TO THE SPECIFICATIONS FOR CONSTRUCTION, INSTALLATION, AND FURTHER PERFORMANCE, CAPACITY, AND ACCESSORY COMPONENT REQUIREMENTS.
3. REFER TO THE "VIBRATION ISOLATOR TYPES" SCHEDULE ON DRAWING M701 FOR BRIEF DESCRIPTIONS OF THE VARIOUS TYPES OF BASES, SUPPORTS, AND HANGERS. REFER TO SPECIFICATION SECTION 15240 FOR MORE DETAILED COMPONENT AND INSTALLATION DESCRIPTIONS.

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

HVAC Schedules

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE SILVER SPRING, MARYLAND

PROJECT # CC-01-MC-97/98-318

DATE

DATE

DATE

DATE

DATE

DATE

H701

SHEET 24 OF 25

**AIR HANDLING UNIT SCHEDULE**

UNIT NO	LOCATION	SERVES	FLOW (CFM)	MIN O/A (CFM)	SUPPLY FAN DATA					COOLING COIL										HEATING COIL										
					ESP (IN WG)	TSP (IN WG)	RPM	HP	MOTOR DATA			TOTAL MBH	SENSIBLE MBH	MAX SP LOSS (IN WG)	EAT (°F) DB/WB	LAT (°F) DB/WB	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX PD (FT)	MIN NO OF ROWS	MBH	MAX SP LOSS (IN WG)	EAT (°F)	LAT (°F)	FLOW (GPM)	EWT (°F)	LWT (°F)	MAX PD (FT)	NO OF ROWS
									VOLTS	PHASE	CYCLE																			
AHU-1	PENT MECH RM	NORTH WING	21285	5895	3	5.5	1800	40	460	3	60	1086.4	820.0	1.0	81.1/64.1	45.9/45.5	178	38	50	10	8	489.6	0.1	68.5	96.6	50	200	180	5	1
AHU-2	PENT MECH RM	EAST WING	24415	6575	3	5.5	1300	40	460	3	60	1212.9	922.8	1.0	81.1/64.1	46.5/46.1	198	38	50	10	8	523.9	0.1	68.5	96.6	54	200	180	5	1

**AIR HANDLING UNIT SCHEDULE (CONTINUED)**

UNIT NO	PREFILTERS & FILTERS						RELIEF FAN DATA						VIBRATION ISOLATION			BASIS OF DESIGN		
	NO	SIZE (IN)	SP DROP (IN WG)		FLOW (CFM)	ESP (IN WG)	TSP (IN WG)	RPM	HP	VOLTS	PHASE	CYCLE	BASE TYPE	ISOLATOR TYPE	MIN DEFL (IN)			
			25% (PRE) CLEAN	80-85% DIRTY														
AHU-1	15	24 x 20	0.28	1.0	0.56	1.5	16665	0.50	0.75	363	7.5	460	3	60	B	--	--	YORK AIRPAK AP-500
AHU-2	15	24 x 20	0.28	1.0	0.56	1.5	19640	0.50	0.75	395	10	460	3	60	B	--	--	YORK AIRPAK AP-500

**FAN SCHEDULE**

UNIT NO	LOCATION	SERVES	CFM	STATIC PRESSURE (IN WG)	FAN TYPE	RPM	DRIVE TYPE	MOTOR DATA				VIBRATION ISOLATION			OPERATING WEIGHT (LBS)	BASIS OF DESIGN	REMARKS
								HP	VOLTS	PHASE	CYCLE	BASE TYPE	ISOLATOR TYPE	MIN DEFL (IN)			
EF-1	PENT MECH RM	GENERAL EXHAUST	6965	1	CENTRIFUGAL	1215	BELT	3	460	3	60	B	4	0.75	451	GREENHECK 22 BISW	
EF-2	ROOF	ISO EXAM RM 154	150	0.20	CENTRIFUGAL	960	BELT	1/6	115	1	60	A	--	--	43	GREENHECK GB-070	
EF-3	BSMT MECH RM	MECHANICAL RM	550	0.20	PROPELLER	860	DIRECT	1/8	115	1	60	--	--	--	27	GREENHECK SE1-14	GENERAL EXHAUST
EF-4	BSMT MECH RM	MECHANICAL RM	2280	0.20	PROPELLER	1160	DIRECT	1/4	115	1	60	--	--	--	30	GREENHECK SE1-16	REFRIGERANT PURGE
EF-5	BSMT ELEC RM	ELECTRICAL RM	360	0.10	PROPELLER	1050	DIRECT	1/40	115	1	60	--	--	--	16	GREENHECK SE1-10	GENERAL EXHAUST
EF-6	PENTHOUSE	PENTHOUSE	1700	0.20	PROPELLER	1160	DIRECT	1/6	115	1	60	--	--	--	30	GREENHECK SE1-16	GENERAL EXHAUST

**SERIES FAN POWERED VAV AIR TERMINAL UNIT SCHEDULE**

UNIT NO	PRIMARY AIR				FAN DATA						HOT WATER COIL					FILTER FILTER	BASIS OF DESIGN	INLET STATIC (IN. WG)	VALVE & FAN RADIATED SOUND POWER LEVELS							MAX ROOM NC	FAN SPEED		
	NOMINAL CFM	MIN. CFM	INLET SIZE	MIN. S.P. IN. WG	NOMINAL CFM	SP IN. WG	HP	V	PH	HZ	FLA	CAP. MBH	E.A.T. °F	E.W.T. °F	L.W.T. °F				GPM	ROW	A.P.D IN. WG	2	3	4	5			6	7
																						2	3	4	5			6	7
FP-1	500	150	8	0.20	500	0.50	1/6	277	1	60	1.3	15.0	65	200	180	2.0	2	0.15 MAX	19x17	TITUS DTQS SIZE 208	1.5	70	61	60	57	57	57	35	SCR CONTROL
FP-2	800	250	8	0.20	800	0.50	1/4	277	1	60	2.4	22.0	65	200	180	2.5	2	0.15 MAX	19x17	TITUS DTQS SIZE 308	1.5	70	61	60	57	57	35	SCR CONTROL	
FP-3	1100	400	10	0.20	1100	0.50	1/3	277	1	60	2.9	30.0	65	200	180	3.0	2	0.15 MAX	19x17	TITUS DTQS SIZE 408	1.5	70	61	60	57	57	35	SCR CONTROL	
FP-4	1900	500	12	0.20	1900	0.50	1/3	277	1	60	3.3	35.0	65	200	180	3.5	2	0.15 MAX	27x20	TITUS DTQS SIZE 508	1.5	70	61	60	57	57	35	SCR CONTROL	

**DIFFUSER, GRILLE, AND REGISTER SCHEDULE**

UNIT NO	DUTY	FACE SIZE (IN)	NECK SIZE (IN)	CFM	SLOT DATA		THROW (1) NO OF DIR	DIST (FT)	MAX PD (IN WG)	MAX NC	MATERIAL	MOUNTING	COLOR (2)	DAMPER (Y/N)	BASIS OF DESIGN	
					NO	SIZE (IN)										LENGTH (IN)
CD1	SUPPLY	24x24	6	190	--	--	4	8	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
CD2	SUPPLY	24x24	8	300	--	--	4	12	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
CD3	SUPPLY	24x24	10	450	--	--	4	14	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
CD4	SUPPLY	24x24	12	650	--	--	4	18	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
LD1	SUPPLY	--	10	240	1	1.5	48	1	22	0.1	25	STEEL	SURFACE	WHITE	Y	--
ER1	EXHAUST	--	10x6	170	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	Y	--	
ER2	EXHAUST	--	8x6	130	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	Y	--	
ER3	EXHAUST	24x24	8"	175	--	--	--	--	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
ER4	EXHAUST	24x24	10"	275	--	--	--	--	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
ER5	EXHAUST	--	6x6	95	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	Y	--	
ER6	EXHAUST	24x24	12"	390	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	Y	--	
ER7	EXHAUST	--	24x12	910	--	--	--	--	0.1	25	STEEL	LAY-IN	WHITE	Y	--	
TG1	TRANSFER	24x24	10"	275	--	--	--	--	0.1	25	STEEL	LAY-IN	WHITE	N	--	
TG2	TRANSFER	--	10x6	170	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	N	--	
TG3	TRANSFER	24x24	8"	175	--	--	--	--	0.1	25	STEEL	LAY-IN	WHITE	N	--	
TG4	TRANSFER	--	8x6	130	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	N	--	
TG5	TRANSFER	24x24	12"	390	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	N	--	
TG6	TRANSFER	--	14x14	610	--	--	--	--	0.1	25	STEEL	SURFACE	WHITE	N	--	
TG7	TRANSFER	--	48x12	2280	--	--	--	--	0.1	30	STEEL	SURFACE	WHITE	N	--	

NOTES:  
 1. THROW DISTANCE IS BASED ON 50 FPM TERMINAL VELOCITY AT SCHEDULED UNIT CFM.  
 2. PROVIDE A COLOR CHART WITH THE PRODUCT DATA SUBMITTAL SHOWING THE MANUFACTURER'S STANDARD COLORS FOR FINAL COLOR SELECTION/ APPROVAL BY THE ARCHITECT.

**HOT WATER UNIT HEATER SCHEDULE**

UNIT NO	TYPE	LOCATION	FAN FLOW (CFM)	CAPACITY (MBH)	GPM	L.A.T. (°F)	MOTOR DATA			BASIS OF DESIGN	
							HP	VOLTS	PHASE		
UH-1	HORIZONTAL	BASEMENT/PENTHOUSE	450	15.6	1.8	98	9 W	115	1	60	VULCAN MODEL HV-24

**CONTROL VALVE SCHEDULE**

UNIT NO	SERVICE	MEDIUM	VALVE TYPE	2-WAY OR 3-WAY	NORMAL POSITION	MODULATING OR 2-POSITION	FLOW		SIZE (IN)	Cv	MAX PD (PSI)	ACTUATOR TYPE	BASIS OF DESIGN
							GPM	LB/HR					
V-1	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NO	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-2	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NO	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-3	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NC	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-4	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NC	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-5	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NC	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-6	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NC	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-7	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NO	2-POSITION	400	--	5	--	--	ELECTRONIC	DEZURIK
V-8	CHILLER PLANT	WATER	BUTTERFLY	2-WAY	NO	MODULATING	400	--	5	--	--	ELECTRONIC	DEZURIK
V-9	EXP TANK	WATER	BALL	2-WAY	NO	2-POSITION	20	--	1	--	--	ELECTRONIC	NIBCO
V-10	CS BYPASS	WATER	BUTTERFLY	2-WAY	NO	MODULATING	600	--	6	--	--	ELECTRONIC	DEZURIK
V-11	CS BYPASS	WATER	BUTTERFLY	2-WAY	NC	MODULATING	600	--	6	--	--	ELECTRONIC	DEZURIK
V-12	AHU-1 HWS	WATER	BALL	2-WAY	NO	MODULATING	36	--	1-1/2	29	--	ELECTRONIC	NIBCO
V-13	AHU-1 CWR	WATER	BALL	2-WAY	NC	MODULATING	178	--	3	105	--	ELECTRONIC	NIBCO
V-14	AHU-2 HWS	WATER	BALL	2-WAY	NO	MODULATING	40	--	1-1/2	29	--	ELECTRONIC	NIBCO
V-15	AHU-2 CWR	WATER	BALL	2-WAY	NC	MODULATING	198	--	3	105	--	ELECTRONIC	NIBCO
V-16	DOM HOT WTR	WATER	BALL	2-WAY	NC	2-POSITION	14	--	1-1/2	--	--	ELECTRONIC	NIBCO
V-17	BOILER B-1	WATER	BALL	2-WAY	NC	2-POSITION	26	--	2	--	--	ELECTRONIC	NIBCO
V-18	BOILER B-2	WATER	BALL	2-WAY	NC	2-POSITION	26	--	2	--	--	ELECTRONIC	NIBCO
V-19	BOILER B-3	WATER	BALL	2-WAY	NC	2-POSITION	26	--	2	--	--	ELECTRONIC	NIBCO
V-20	BOILER B-4	WATER	BALL	2-WAY	NC	2-POSITION	26	--	2	--	--	ELECTRONIC	NIBCO
V-21	BOILER B-5	WATER	BALL	2-WAY	NC	2-POSITION	26	--	2	--	--	ELECTRONIC	NIBCO
V-22	BOILER B-6	WATER	BALL	2-WAY	NC	2-POSITION	26	--	2	--	--	ELECTRONIC	NIBCO

**GENERAL NOTES**

- REFER TO DRAWING M001 FOR ABBREVIATIONS, HVAC RELATED SYMBOLS AND GENERAL NOTES.
- MECHANICAL EQUIPMENT SCHEDULES CONTAIN ONLY MINIMUM CAPACITY, PERFORMANCE, AND ACCESSORY DATA. REFER TO THE SPECIFICATIONS FOR CONSTRUCTION, INSTALLATION, AND FURTHER PERFORMANCE, CAPACITY, AND ACCESSORY COMPONENT REQUIREMENTS.
- REFER TO THE "VIBRATION ISOLATOR TYPES" SCHEDULE ON DRAWING M701 FOR BRIEF DESCRIPTIONS OF THE VARIOUS TYPES OF BASES, SUPPORTS, AND HANGERS. REFER TO SPECIFICATION SECTION 15240 FOR MORE DETAILED COMPONENT AND INSTALLATION DESCRIPTIONS.

NO.	REVISIONS/SUBMISSIONS	DATE

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318  
 SHEET 25 OF 25  
 H702  
 DATE: 2/20/02  
 PROJECT NO: 14499.01  
 DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 DATE  
 CHIEF - PROJ. MGT. & DESIGN  
 DATE  
 TITLE  
 APPROVAL  
 DATE  
 MONTGOMERY COLLEGE  
 APPROVAL  
 DATE

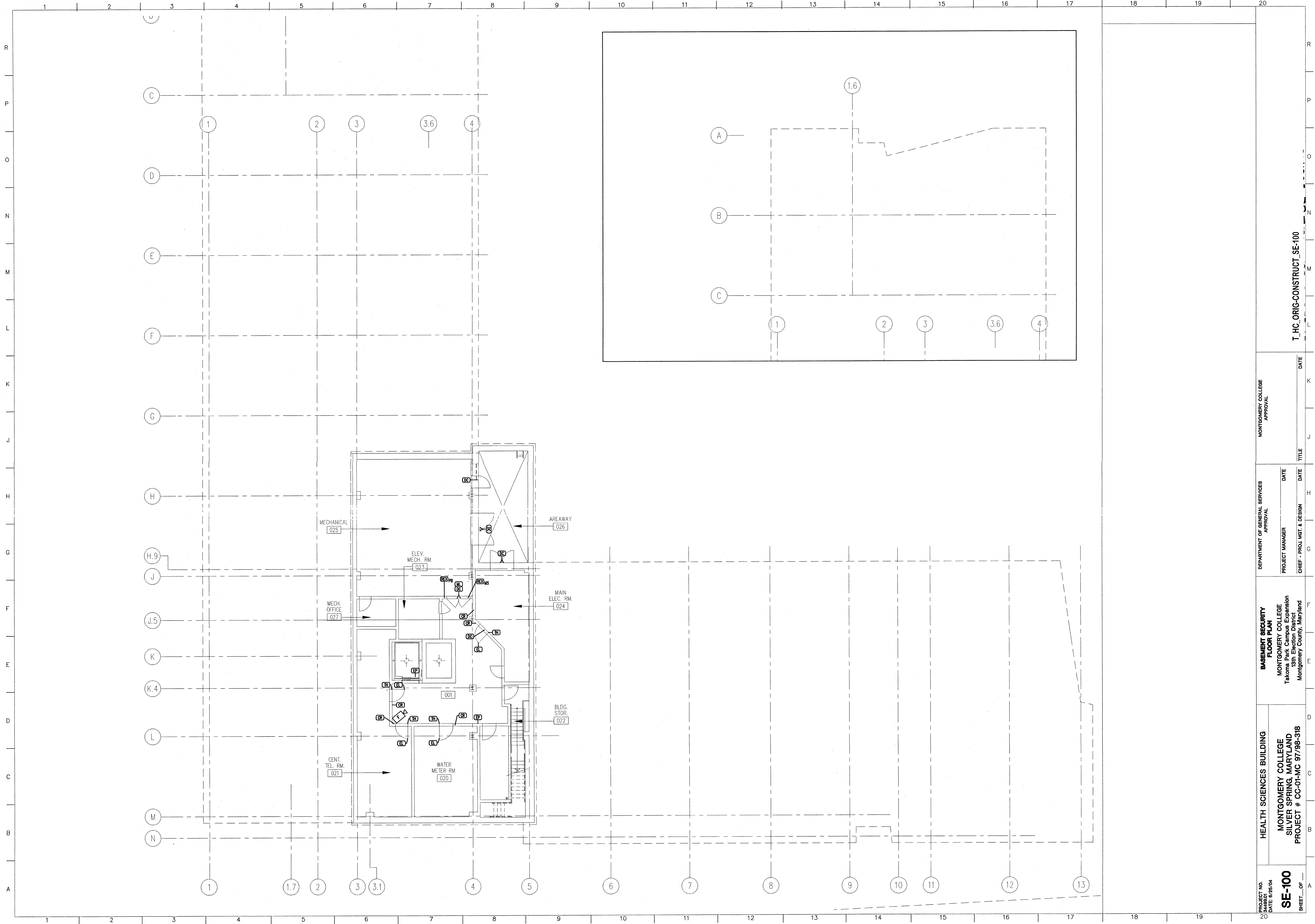
ABBREVIATIONS	
A	AMPERES
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AIU	ALARM INTERFACE UNIT
ATR	ALL THREADED ROD
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CE	CARD ENTRY
CL	CENTER LINE
CLG	CEILING
COND	CONDUCTOR
CPU	CENTRAL PROCESSING UNIT
CU	COPPER
DGP	DATA GATHERING PANEL
DJB	DOOR JUNCTION BOX
DIU	DATA INTERFACE UNIT
DWG	DRAWING
EC	EMPTY CONDUIT
EM	EMERGENCY
EX	EXISTING
FACP	FIRE ALARM CONTROL PANEL
OF X/R	OPTICAL FIBER TRANSMITTER/RECEIVER
FS	FILE SERVER
G	GROUND
GRS	GALVANIZED RIGID STEEL
GPI	GENERAL PURPOSE INTERFACE
HC	HUNG CEILING
ID	INTRUSION DETECTION
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
LV	LOW VOLTAGE
M	CCTV MONITOR
MAX	MAXIMUM
MDF	MAIN DISTRIBUTION FRAME
MIN	MINIMUM
MTD	MOUNTED
MTG	MOUNTING
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
No.	NUMBER
NTS	NOT TO SCALE
O/SHELD	OVERALL SHIELDED
PA	PUBLIC ADDRESS
PB	PULLBOX
PBX	PRIVATE BRANCH EXCHANGE
PC WS	PERSONAL COMPUTER WORKSTATION
PNL	PANEL
POS	POINT OF SALE
PS	POWER SUPPLY
R/D	RECEIVER/DRIVER
RM	ROOM
RGS	RIDGED STEEL CONDUIT
SEC	SECURITY
SFRO	SHOWN FOR REFERENCE ONLY
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TEL	TELECOMMUNICATIONS
TV	TELEVISION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLTAMPERES
VCR	VIDEO CASSETTE RECORDER
VDA	VIDEO DISTRIBUTION AMPLIFIER
VIM	VIDEO INTERFACE MODULE
VMP	VIDEO MULTIPLEXER
OF PP	OPTICAL FIBER PATCH PANEL

SECURITY SYMBOLS	
(AA)	AUDIBLE ALARM PUSH BUTTON
(ALP)	ALARM PANEL
(BG)	BREAK GLASS STATION
(CAPC)	CARD ACCESS PC
(CCTV)	CCTV WORKSTATION
(BR)	BIOMETRIC READER (HAND GEOMETRY)
(CR) XXX	CARD READER NO SYMBOL = PROXIMITY TYPE PON = WITH PIN PAD
(CX)	CHEXIT DEVICE
(DC)	DOOR CONTACT
(DR)	DOOR RELEASE BUTTON
(DDC)	DOUBLE DOOR CONTACT
(DML) XXX	DOUBLE MAGNETIC LOCK DSM = WITH DOOR POSITION SWITCH OPTION DDC = WITH DOUBLE DOOR CONTACTS
(EL)	ELECTRIFIED LOCK
(EP)	EMERGENCY PHONE (WALL MOUNT UON)
(ES)	ELECTRIC STRIKE
(JB)	JUNCTION BOX
(K)	FIRE RELAY
(MD)	MOTION DETECTOR
(ML)	ELECTROMAGNETIC LOCK
(PB) x	PANIC BUTTON W = WALL MOUNT
(R)	RELAY MODULE
(REX) xx	REQUEST TO EXIT PB = PUSH BUTTON MS = MOTION SENSOR
(SI)	SIREN
(TH)	POWER TRANSFER HINGE
(VI) x	VIDEO INTERCOM M = MASTER
(X) F	CCTV CAMERA F = FIXED NO SYMBOL = PTZ
AC DP	ACCESS CONTROL DISTRIBUTION PANEL
CX PS	CHEXIT POWER SUPPLY
AC PS	ACCESS CONTROL POWER SUPPLY
CCTV PS	CCTV POWER SUPPLY
EL PS	ELECTRIC LOCK POWER SUPPLY

REFERENCE LEGEND	
DETAIL REFERENCE TAGS	
	-CCTV CAMERA ID -SEQUENTIAL NUMBER -CAMERA DESIGNATOR -FLOOR NUMBER
	-DOOR NUMBER -FLOOR NUMBER
	NOTE REFERENCE TAG
	XX - DETAIL NUMBER ELEVATION REFERENCE TAG ZZ - ELEVATION REFERENCE
	CABLE AND DEVICE IDENTIFICATION:

DRAWING LIST	
SE-001	SECURITY SYMBOLS, DRAWINGS LIST, NOTES & ABBREVIATIONS
SE-100	BASEMENT SECURITY FLOOR PLAN
SE-101	FIRST FLOOR SECURITY FLOOR PLAN
SE-102	SECOND FLOOR SECURITY FLOOR PLAN
SE-103	THIRD FLOOR SECURITY FLOOR PLAN
SE-104	FOURTH FLOOR SECURITY FLOOR PLAN
SE-201	PATHWAY WITH EMERGENCY PHONES - PART PLAN
SE-202	SECURITY BLOCK DIAGRAMS
SE-301	SECURITY RISER DIAGRAM
SE-302	SECURITY PART PLAN - MDF/IDF ROOMS
SE-400	SECURITY SYSTEM DETAILS SHEET #1
SE-401	SECURITY SYSTEM DETAILS SHEET #2
SE-402	SECURITY SYSTEM DETAILS SHEET #3

GENERAL NOTES	
1.	CONDUIT SHALL BE EMT, (TYP FOR ALL).
2.	PROVIDE NYLON BUSHINGS ON BOTH ENDS OF CONDUIT STUB- UPS SLEEVES, (TYP FOR ALL).
3.	REFER TO ELECTRICAL DRAWINGS FOR ALL 120 VAC SECURITY POWER REQUIREMENTS.
4.	CONSTRUCTION MANAGER TO PROVIDE DOOR CLOSERS ON ALL DOORS FITTED WITH SECURITY DEVICES.
5.	ALL MOTION DETECTORS (MD) (UON) SHOWN IN CERTAIN ROOMS ARE PROVIDED BY LIGHTING CONTRACTOR. MD PROVIDED BY LIGHTING CONTRACTOR WILL PROVIDE DRY CONTACTS FOR THE EMS (ENERGY MANAGEMENT SYSTEM). THE EMS IN TURN WILL PROVIDE HARDWIRED RELAYS FOR MOTION DETECTORS FROM ITS SYSTEM AND TERMINATE THEM AT THE SECURITY WALLFIELD ON THE RESPECTIVE FLOOR. SECURITY CONTRACTOR TO COORDINATE WITH THE HVAC CONTRACTOR FOR EXACT TERMINATION LOCATION. SECURITY CONTRACTOR TO CROSS-CONNECT FROM EMS TERMINATION POINT ON SECURITY WALLFIELD TO HIS SECURITY PANEL ON THE SECURITY WALLFIELD TO PICK UP THE RESPECTIVE MOTION DETECTORS ON THE SECURITY SYSTEM. THE MD SHOWN IN THE HSB CLINIC (SE-101) ARE THE ONLY EXCEPTIONS. THESE TWO MD'S WILL BE PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR.



PROJECT NO. 3448901  
 DATE: 8/26/04  
**SE-100**  
 SHEET OF 1

**HEALTH SCIENCES BUILDING**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

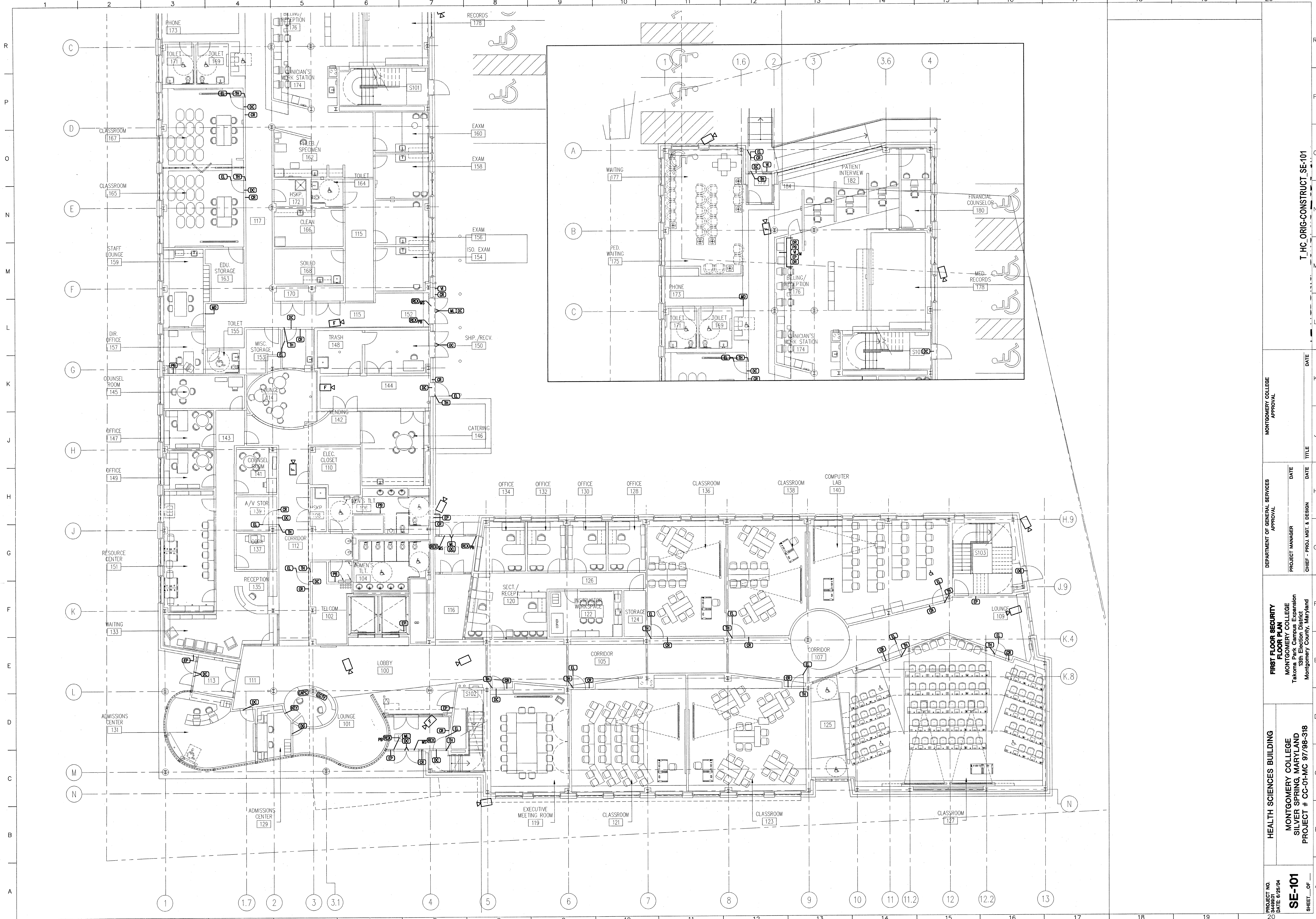
**BASEMENT SECURITY FLOOR PLAN**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

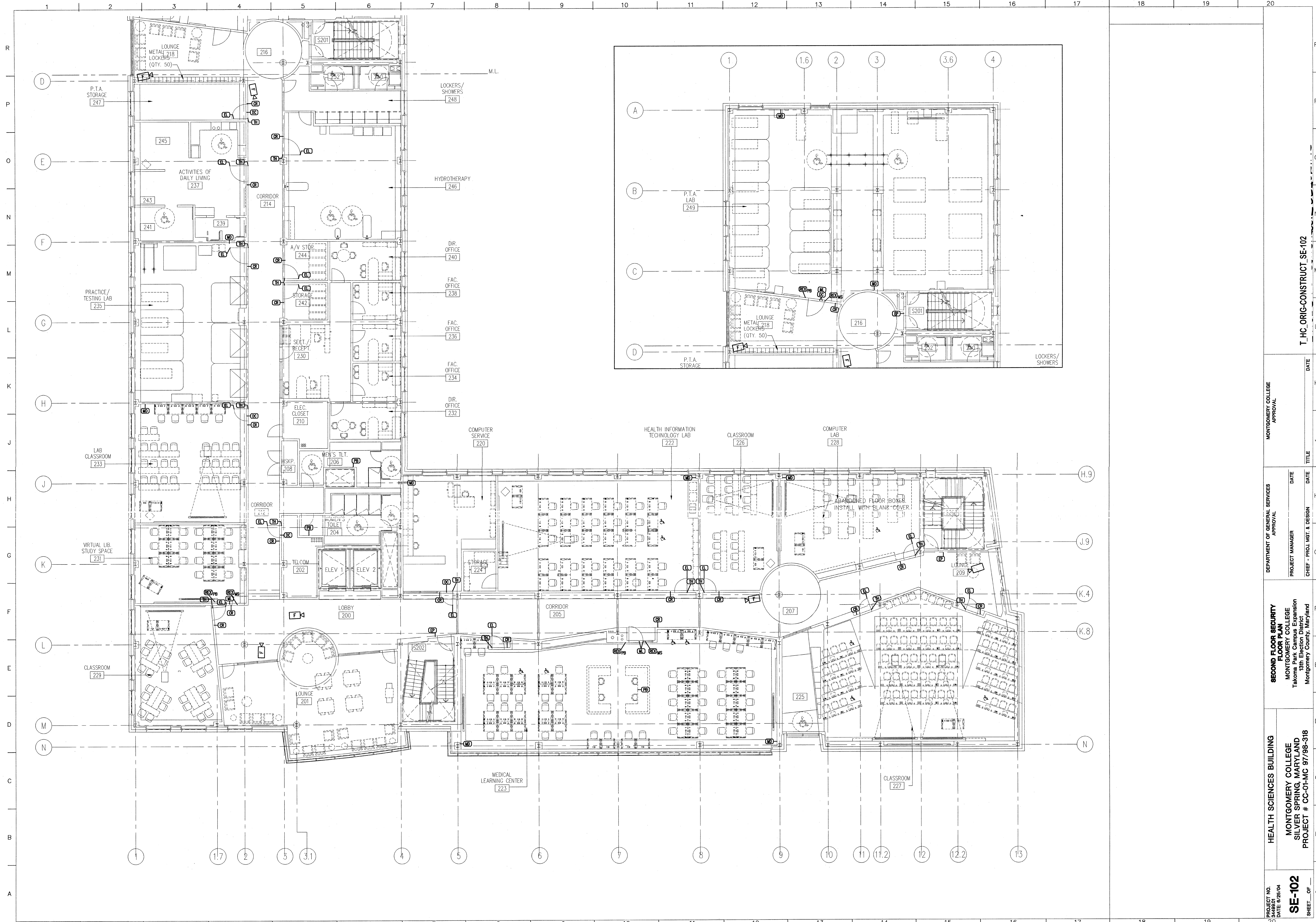
DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF - PROJ. MGT. & DESIGN \_\_\_\_\_ DATE \_\_\_\_\_

MONTGOMERY COLLEGE  
 APPROVAL  
 \_\_\_\_\_ DATE \_\_\_\_\_

T HC ORIG-CONSTRUCT\_SE-100







PROJECT NO. 344801  
 DATE 6/26/04  
**SE-102**  
 SHEET OF 1

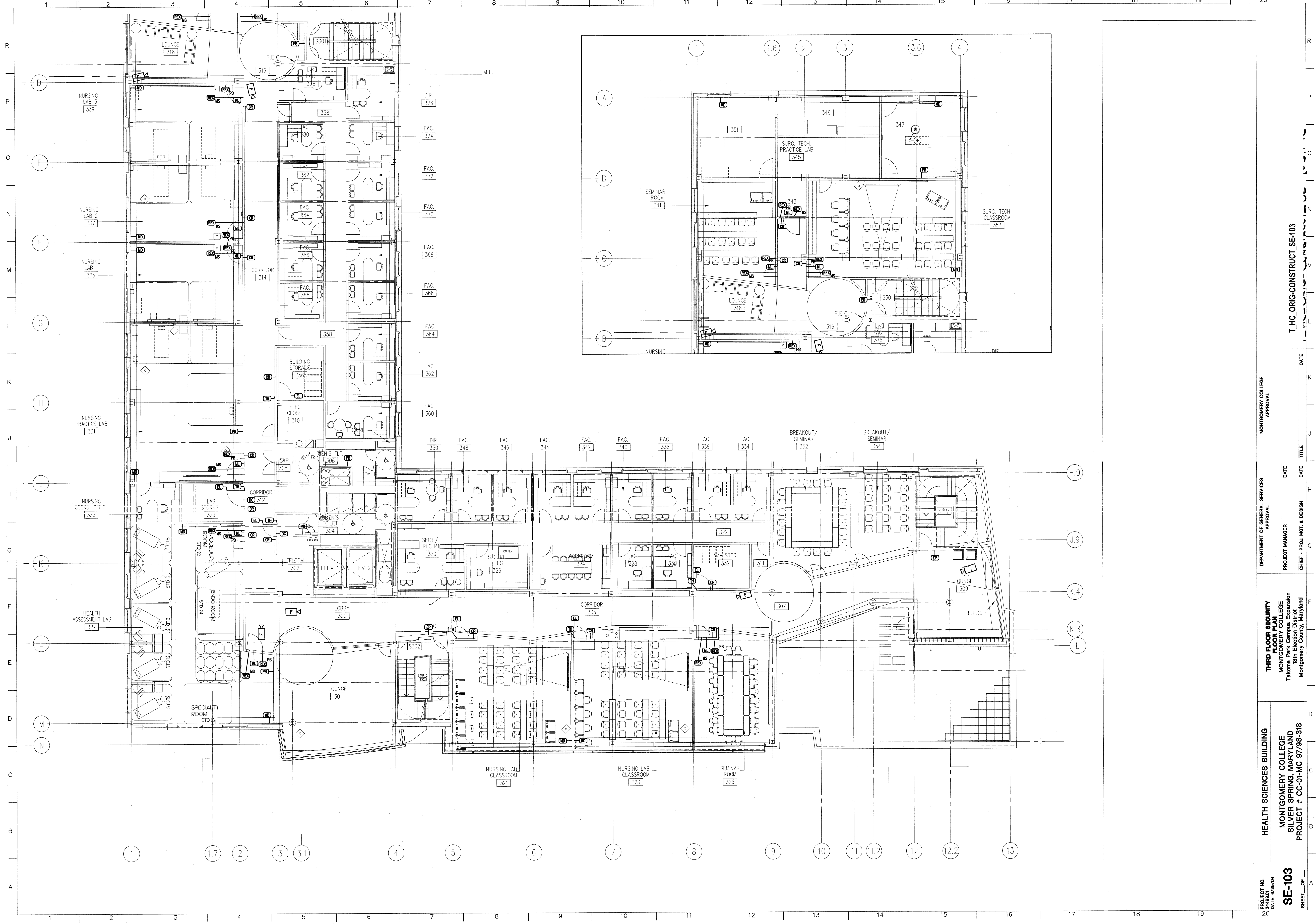
**HEALTH SCIENCES BUILDING**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

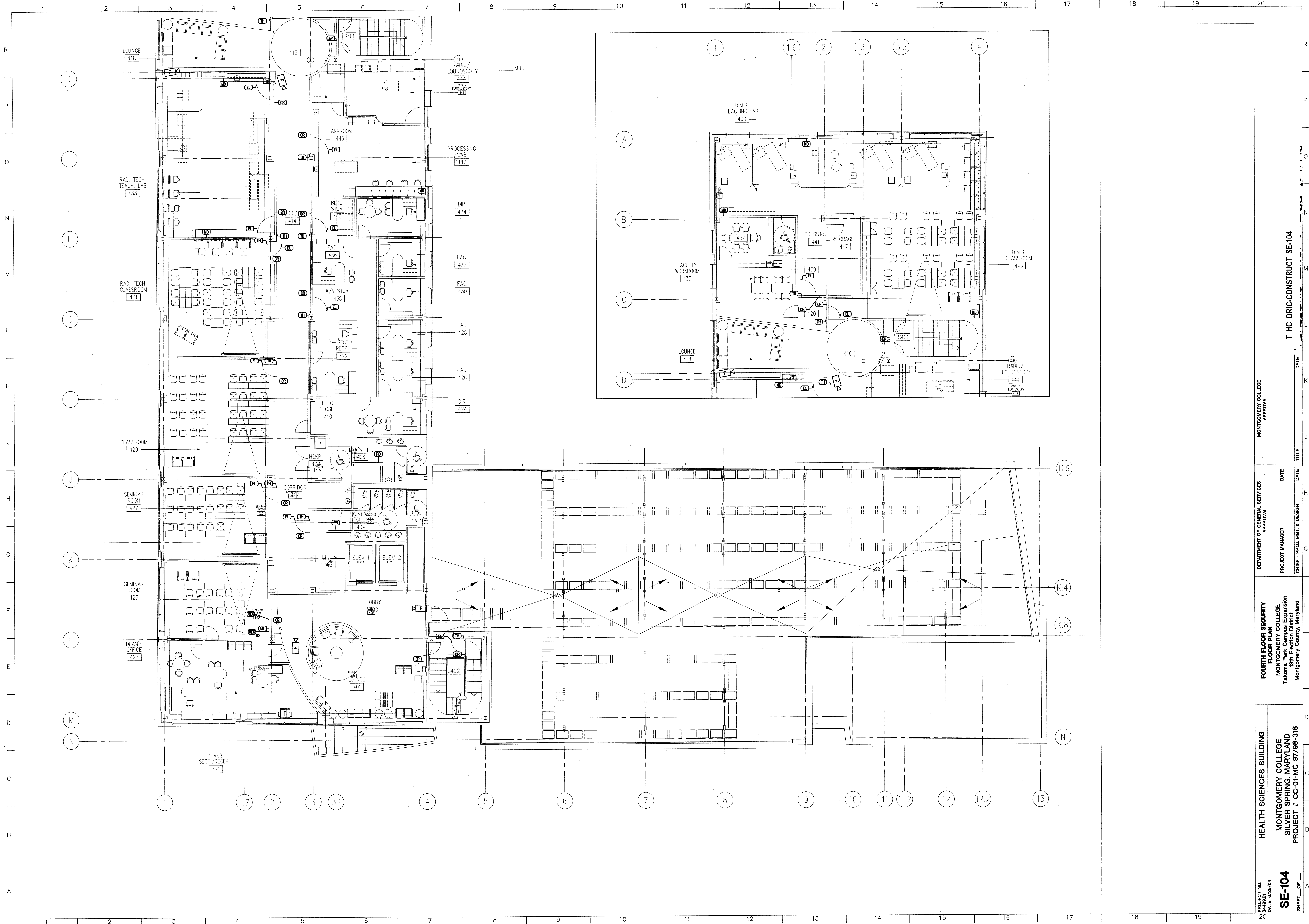
**SECOND FLOOR SECURITY FLOOR PLAN**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF - PROJ. MGT. & DESIGN \_\_\_\_\_ DATE \_\_\_\_\_

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE \_\_\_\_\_

T HC ORIG-CONSTRUCT SE-102





PROJECT NO.  
DATE 6/26/04  
**SE-104**  
SHEET OF

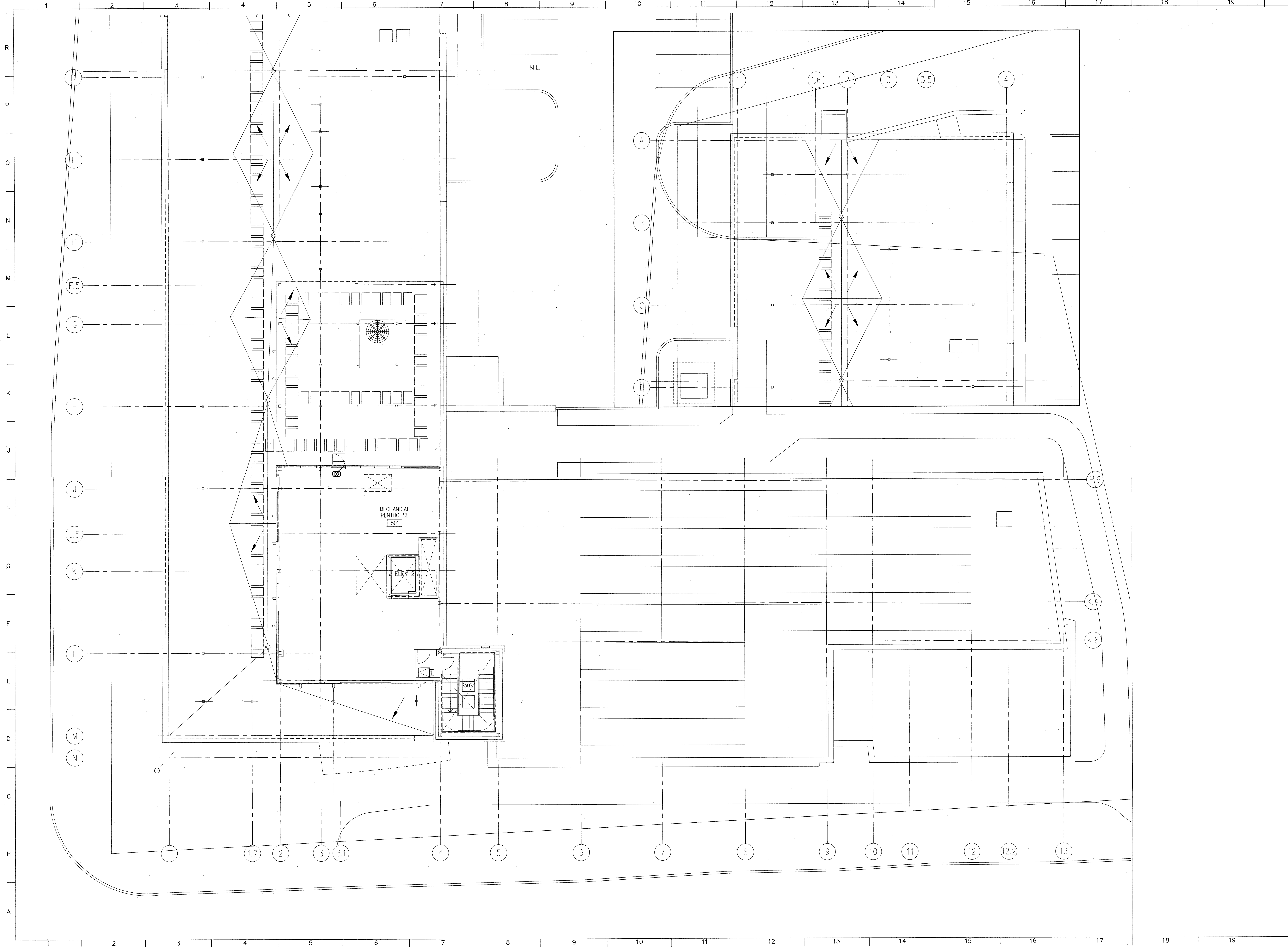
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC 97/98-318

FOURTH FLOOR SECURITY FLOOR PLAN  
MONTGOMERY COLLEGE  
Takoma Park, Maryland  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL  
PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
APPROVAL  
DATE  
TITLE  
DATE

T\_HC\_ORIG-CONSTRUCT\_SE-104



PROJECT NO. 2349807  
 DATE 6/26/04  
**SE-105**  
 SHEET OF 1

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

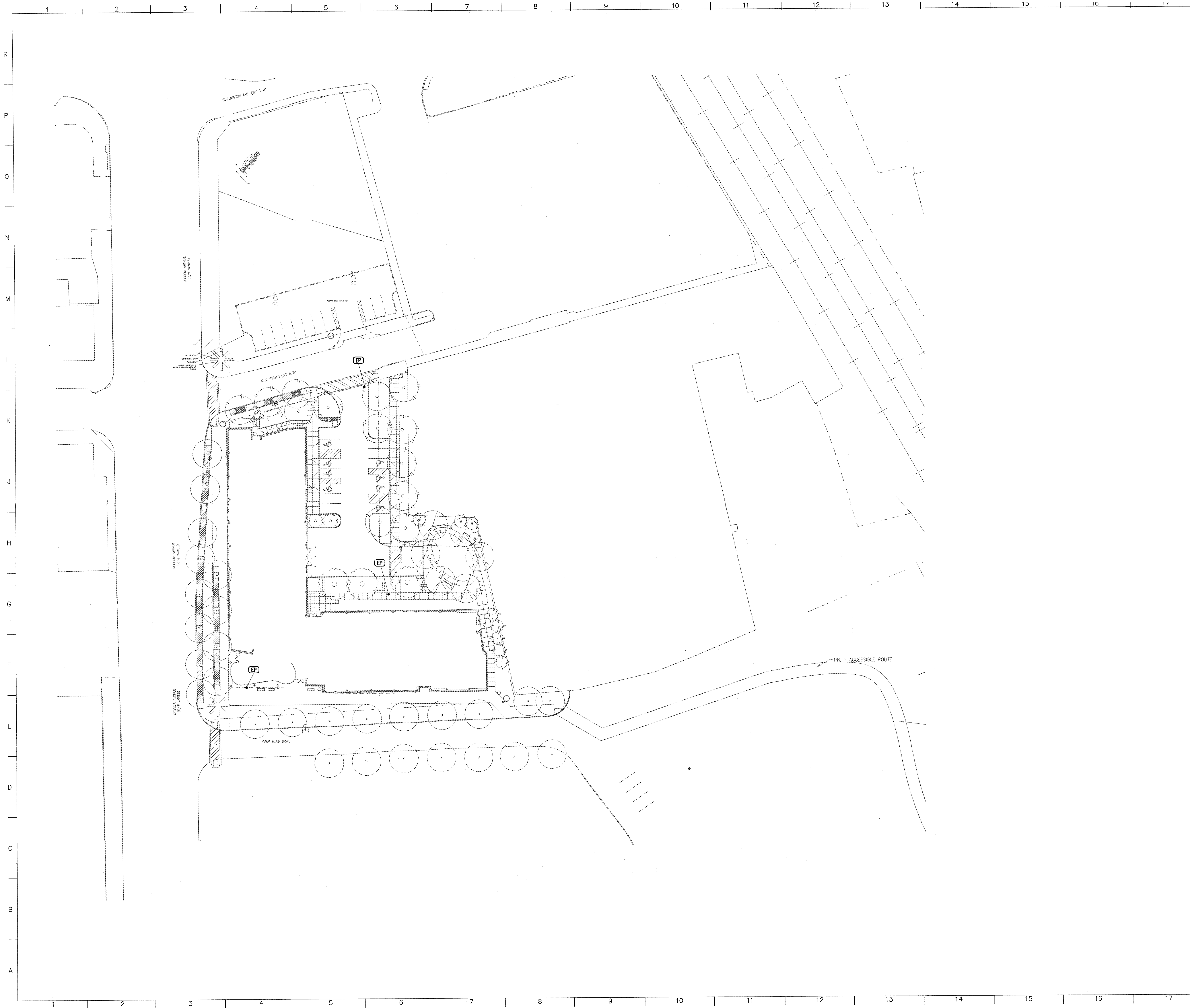
**MECHANICAL PENTHOUSE SECURITY PLAN**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF - PROJ. MGT. & DESIGN \_\_\_\_\_ DATE \_\_\_\_\_

MONTGOMERY COLLEGE  
 APPROVAL  
 \_\_\_\_\_ DATE \_\_\_\_\_

T. HC ORIG-CONSTRUCT\_SE-105

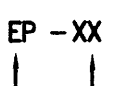

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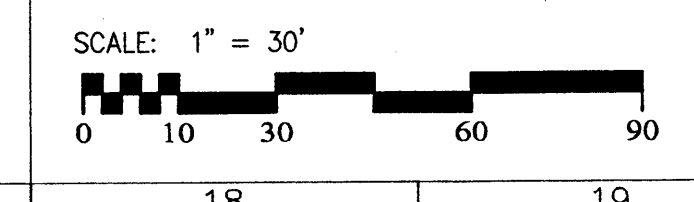


**NOTES:**

- 1) THE EMERGENCY PHONES WILL BE MOUNTED ON A FREE STANDING TOWER LOCATED AT EACH OF THE LOCATIONS SHOWN.
- 2) ELECTRICAL CONTRACTOR TO PROVIDE ALL PATHWAY FOR EMERGENCY PHONE CABLING. THE LOW VOLTAGE CABLE FROM THE RESPECTIVE EMERGENCY PHONES (DRAKA SUPER CAT100E 803308; CAT5E) WILL RUN TO THE VOICE MDF LOCATED IN THE HSB (HEALTH SCIENCES BUILDING) MDF (CENT. TEL. ROOM); ELECTRICAL CONTRACTOR WILL ALSO PROVIDE POWER FOR EACH RESPECTIVE EMERGENCY PHONE LOCATION (REQUIRES 120 VOLT AC).
- 3) REFER TO ELECTRICAL DRAWINGS FOR ALL PATHWAY INFORMATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DEVICE LOCATIONS AND ASSOCIATED DETAILS.
- 4) SECURITY CONTRACTOR WILL PROVIDE LOW VOLTAGE CABLING FOR EP AND PERFORM TERMINATION AT EP. TELECOMMUNICATIONS CONTRACTOR WILL TERMINATE AT VOICE MDF.

**LEGEND:**  
 = EMERGENCY PHONE (TOWER)

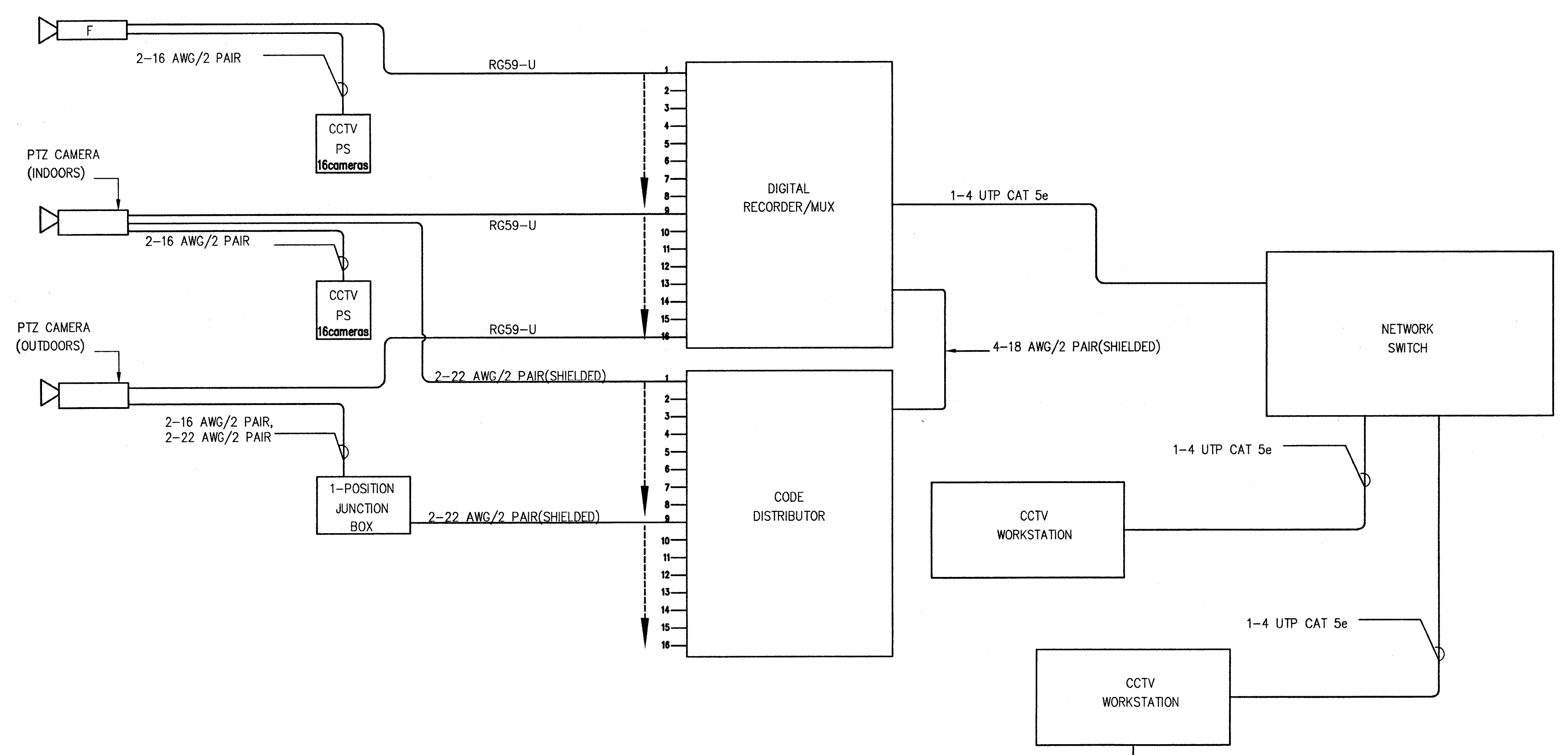
**LABELING SCHEME:**  
 EMERGENCY PHONE IDENTIFICATION NUMBER  
 EMERGENCY PHONE



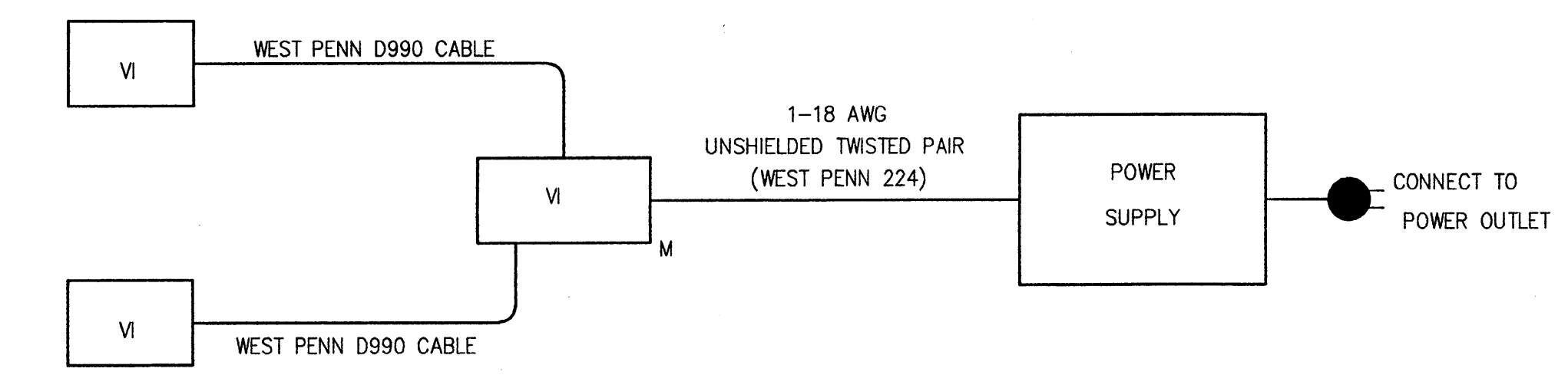
PROJECT NO. 3448901 DATE: 8/26/04	<b>HEALTH SCIENCES BUILDING</b> MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC 97/98-318	<b>PATHWAY WITH EMERGENCY PHONES - PART PLAN</b> MONTGOMERY COLLEGE Takoma Park Campus Expansion Montgomery County, Maryland	DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER _____ DATE _____ CHIEF - PROJ. MGT. & DESIGN _____ DATE _____	MONTGOMERY COLLEGE APPROVAL _____ DATE _____
<b>SE201</b> SHEET X OF XX		<b>T. HC ORIG-CONSTRUCT_SE-201</b>		

**NOTES:**

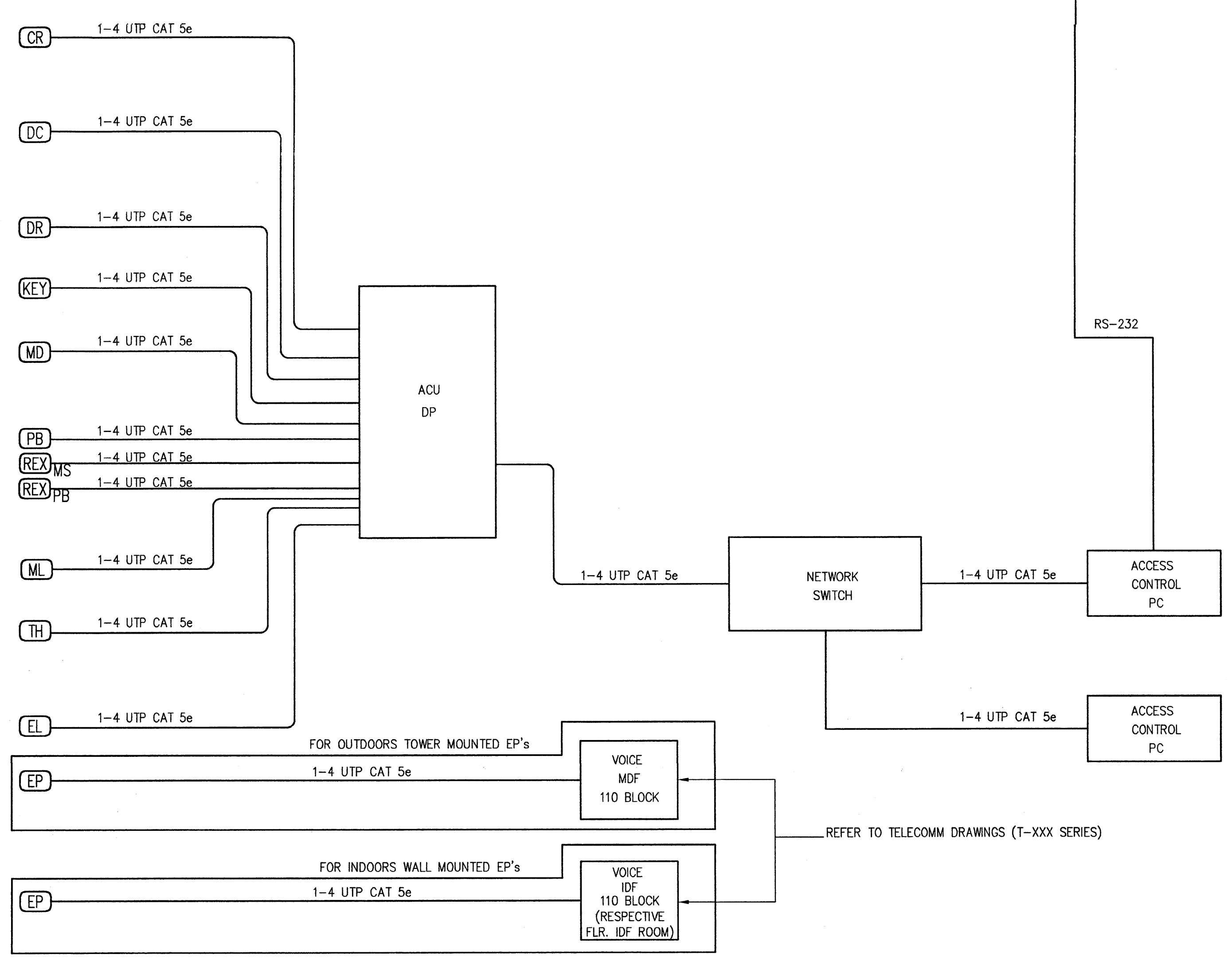
1) ELECTRICAL CONTRACTOR TO REFER TO ELECTRICAL DRAWINGS FOR ALL POWER REQUIREMENTS AND POWER RECEPTACLE/CIRCUIT LOCATIONS FOR ALL SECURITY DEVICES/EQUIPMENT.



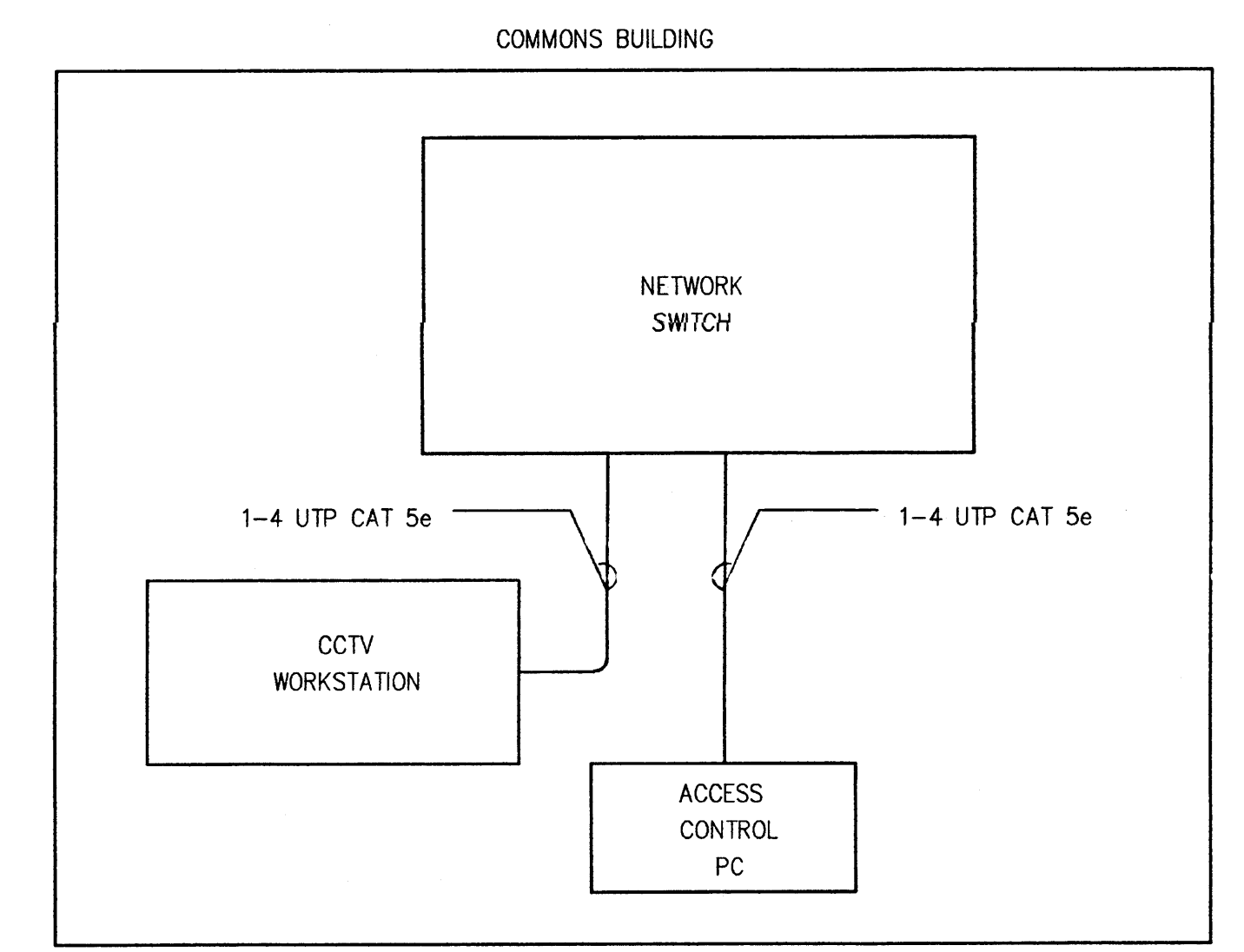
**1** CCTV BLOCK DIAGRAM (TYPICAL CONNECTIONS)  
SCALE: NTS



**3** VIDEO INTERCOM BLOCK DIAGRAM  
SCALE: NTS



**2** ACCESS CONTROL/ALARM MONITORING  
BLOCK DIAGRAM (TYPICAL CONNECTIONS)  
SCALE: NTS



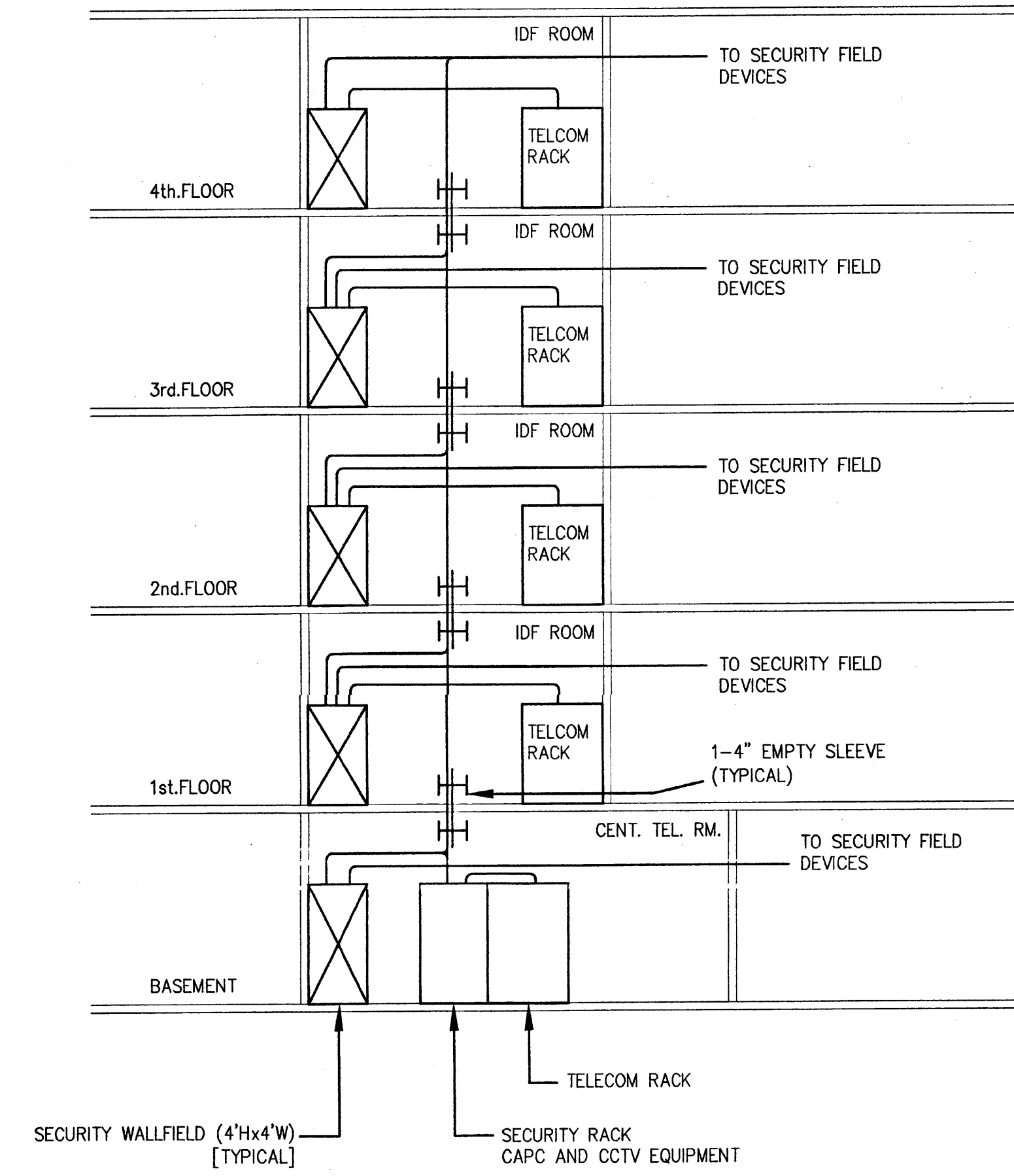
**SECURITY SYMBOLS LEGEND:**

- CR** CARD READER
- DC** DOOR CONTACT
- DR** DOOR RELEASE BUTTON
- EL** ELECTRIFIED LOCK
- EP** EMERGENCY PHONE
- KEY** ALARM KEYPAD
- MD** MOTION DETECTOR
- PB** PANIC BUTTON
- REX<sub>MS</sub>** REQUEST TO EXIT (MOTION SENSOR)
- REX<sub>PB</sub>** REQUEST TO EXIT (PUSH BUTTON)
- ML** ELECTROMAGNETIC LOCK
- TH** POWER TRANSFER HINGE
- CCTV PS** CCTV POWER SUPPLY (FOR 16 CAMERAS)
- 1-POSITION JUNCTION BOX** SEC RS-422 ONE-POSITION JUNCTION BOX
- VI** VIDEO INTERCOM (AIPHONE KB-DAR)
- VI<sub>M</sub>** VIDEO INTERCOM MASTER (AIPHONE KB-3MRD)
- POWER SUPPLY** VIDEO INTERCOM POWER SUPPLY (AIPHONE PS24E)
- ACU DP** ACCESS CONTROL UNIT DISTRIBUTION PANEL

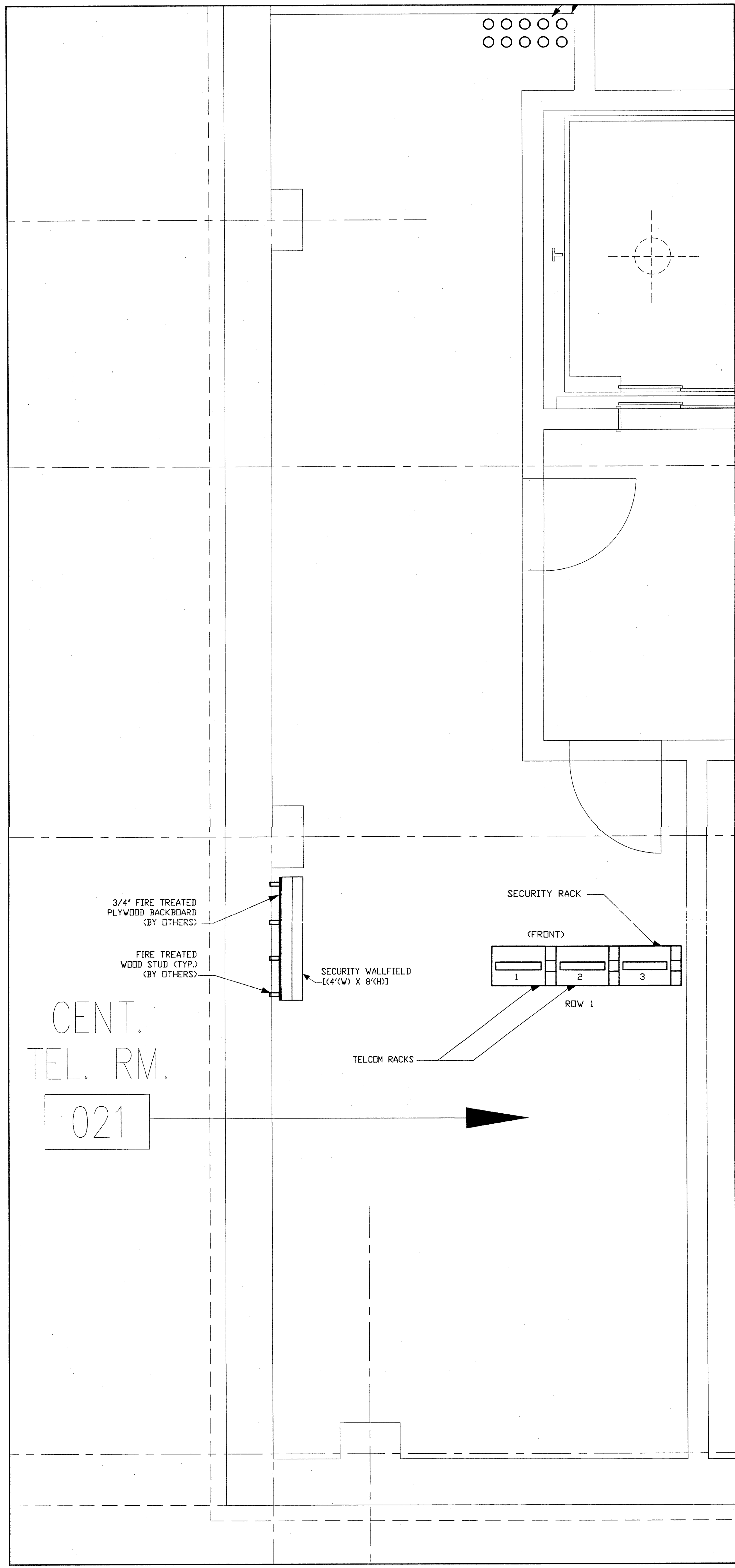
**GENERAL NOTES**

1. ALL EXPOSED HARDWARE ITEMS SHALL HAVE FINISH TO MATCH EXISTING BASE BUILDING CORE DOOR HARDWARE (VERIFY) UNLESS OTHERWISE NOTED.
2. ALL SECURITY DEVICES PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR. ALL SECURITY CABLING PROVIDED AND INSTALLED BY SECURITY CONTRACTOR. SECURITY CONTRACTOR TO COORDINATE WITH TELECOMMUNICATIONS CONTRACTOR, ELECTRICAL CONTRACTOR AND ARCHITECT FOR EXACT CABLE RUNS AND TERMINATION LOCATIONS. SECURITY CONTRACTOR TO PERFORM ALL FINAL CONNECTIONS BETWEEN ALL SECURITY CABLING AND SECURITY DEVICES.
3. SECURITY CONTRACTOR TO UTILIZE MOLEX, DRAKA, WEST PENN, AIPHONE OR APPROVED EQUAL FOR SECURITY CABLING. REFER TO TELECOMM SPECIFICATIONS AND SE-201 FOR FURTHER DETAIL. SECURITY CONTRACTOR TO UTILIZE TELECOMM CABLE TRAYS, J-HOOKS AND ANY OTHER CABLE SUPPORT METHODS REQUIRED FOR PROPER SECURITY CABLING INSTALLATION.
4. ALL ELECTRIFIED LOCKS PROVIDED AND INSTALLED BY THE SECURITY CONTRACTOR. SECURITY CONTRACTOR TO COORDINATE WITH THE DOOR MANUFACTURER TO GET THE DOORS PREPPED FOR LOCK DEVICES.
5. WHERE EMERGENCY PHONE SHOWN IN ELEVATOR, CONTRACTOR TO PROVIDE AND INSTALL THE EMERGENCY PHONE AND ASSOCIATED CABLING.
6. ALL POWER, JUNCTION BOXES, CONDUITS, GREENFIELD AND STUB-UPS PROVIDED BY THE ELECTRICAL CONTRACTOR.
7. THE FOLLOWING ARE THE TYPICAL CONDUIT REQUIREMENTS FOR THE SECURITY DEVICES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SECURITY CONTRACTOR AND THE ARCHITECT FOR EXACT JUNCTION BOX LOCATIONS:

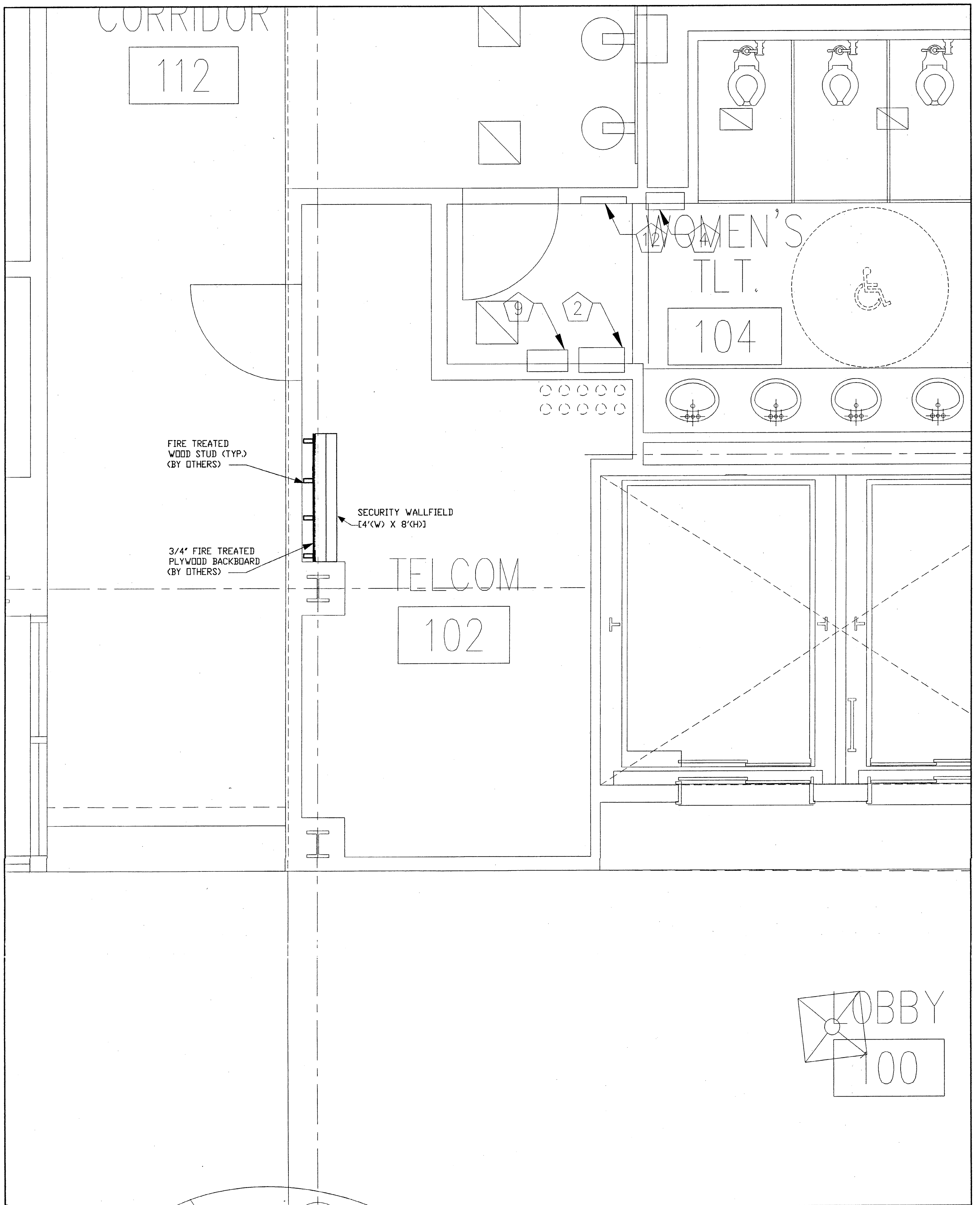
- (X) PROVIDE 4"x4"x2-1/8" DEEP BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED 42" A.F.F. WITH 3/4" CONDUIT TO (B) ABOVE ACCESSIBLE CEILING (SEE SE-400 AND 402 DWG. FOR DETAILS)
- (B) PROVIDE 3/4" CONDUIT TO (B) ABOVE ACCESSIBLE CEILING (SEE SE-400 AND SE-402 DWG. FOR DETAILS)
- (B) SEE SE-400 DWG. FOR REQUIREMENTS.
- (B) PROVIDE 3/4" CONDUIT TO (B) (UON).
- (B) PROVIDE 6"x6"x4" DEEP JUNCTION BOX WITH COVER PLATE. EXACT LOCATION TO BE COORDINATED WITH THE ARCHITECT.
- (B) PROVIDE 4"x4"x2-1/8" DEEP BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED 42" A.F.F. WITH 3/4" CONDUIT TO (B) ABOVE ACCESSIBLE CEILING.
- (B) PROVIDE 3/4" CONDUIT TO (B)
- (B) SEE SE-400 DWG. FOR REQUIREMENTS.
- (B) PROVIDE 3/4" CONDUIT TO (B)
- (B) PROVIDE 4"x4"x2-1/8" DEEP BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED 42" A.F.F. WITH 3/4" CONDUIT TO (B) ABOVE ACCESSIBLE CEILING (SEE SE-400 DWG. FOR DETAILS)
- (B) PROVIDE 3/4" CONDUIT TO (B) ABOVE ACCESSIBLE CEILING (SEE SE-400 DWG. FOR DETAILS)
- (B) STUB 3/4" CONDUIT DOWN DOOR FRAME ON THE HINGE SIDE OF THE DOOR BACK BOX (B) FROM JUNCTION BOX (B). (SEE SE-401 DWG. AND SE-402 DWG. FOR DETAILS)
- (X) PROVIDE 4"x4"x2-1/8" DEEP BOX WITH A 1-1/2" CONDUIT TO NEAREST CABLE TRAY







1 MDF ROOM SECURITY EQUIPMENT LOCATION (BASEMENT)  
SCALE: 1/2" = 1'-0"



2 IDF ROOM SECURITY EQUIPMENT LOCATION (TYPICAL FOR FLOORS 1-4)  
SCALE: 1/2" = 1'-0"

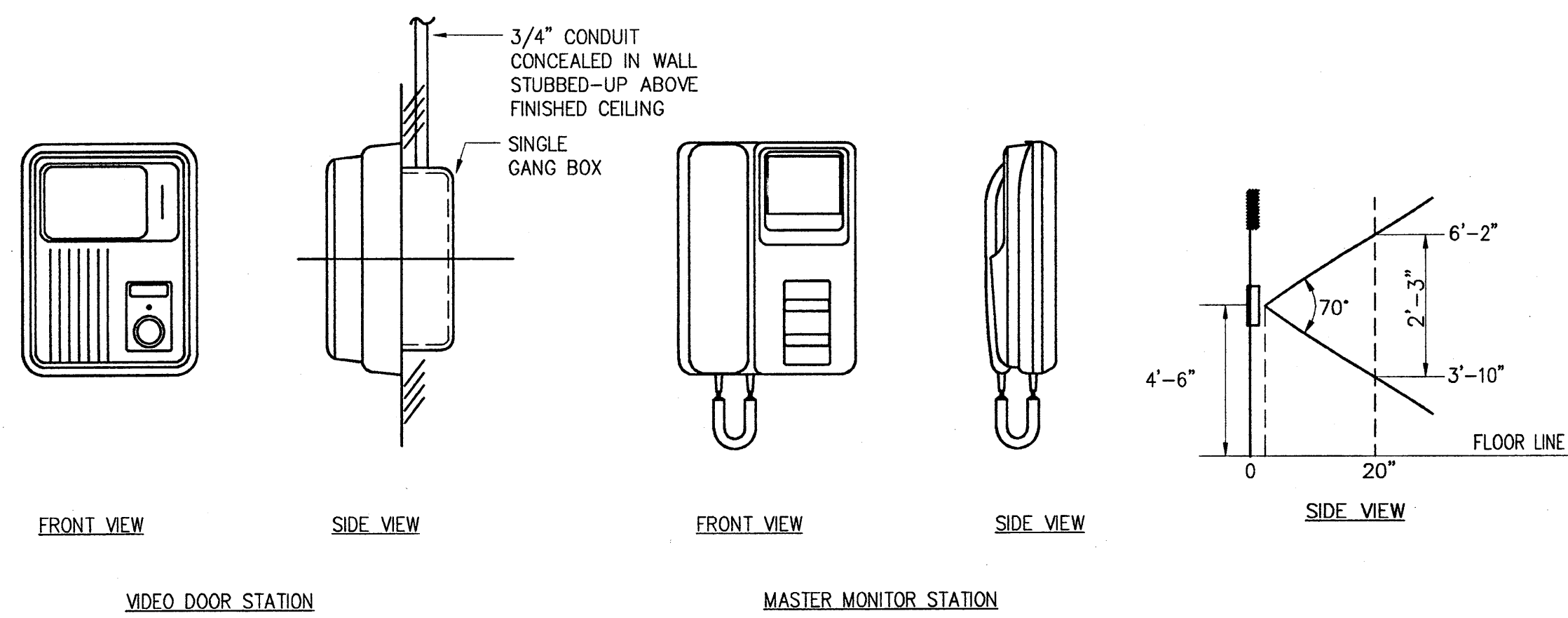
NOTES:

- NOTES FOR IDF:
- FOURTH FLOOR SECURITY WALLFIELD
    - MOUNT (1) INFOGRAPHIC AGU2XL-16-A2C PANEL UTILIZED WITH 12 CARD READERS USAGE.
    - INSTALL (3) INFOGRAPHIC RRE-4-0 IN THE PANEL MENTIONED IN NOTE 1(a).
    - INSTALL (2) INFOGRAPHIC RIM-1 IN THE PANEL MENTIONED IN NOTE 1(a).
    - ROUTE ALL FOURTH FLOOR SECURITY DEVICE CABLING, WITH THE EXCEPTION OF CCTV VIDEO CABLING, TO THE SECURITY WALLFIELD LOCATED IN THE FOURTH FLOOR TELECOM IDF ROOM.
    - ROUTE ALL CCTV LOW VOLTAGE CABLING TO THIRD FLOOR SECURITY WALLFIELD. ROUTE ALL VIDEO SIGNAL CABLING TO THE SECURITY RACK IN THE TELECOM MDF ROOM IN THE BASEMENT.
    - PROVIDE ALL CONNECTIONS FOR SECURITY DEVICES.
  - THIRD FLOOR SECURITY WALLFIELD
    - MOUNT (1) INFOGRAPHIC AGU2XL-16-A2C PANEL UTILIZED WITH 12 CARD READERS USAGE.
    - INSTALL (3) INFOGRAPHIC RRE-4-0 IN THE PANEL MENTIONED IN NOTE 2(a).
    - INSTALL (2) INFOGRAPHIC RIM-1 IN THE PANEL MENTIONED IN NOTE 2(a).
    - MOUNT (1) ALTRONIX 16 CAMERA CCTV POWER SUPPLY.
    - ROUTE ALL THIRD FLOOR SECURITY DEVICE CABLING, WITH THE EXCEPTION OF CCTV VIDEO SIGNAL CABLING, TO THE SECURITY WALLFIELD LOCATED IN THE THIRD FLOOR TELECOM IDF ROOM.
    - ROUTE ALL CCTV LOW VOLTAGE CABLING TO THIRD FLOOR SECURITY WALLFIELD. ROUTE ALL VIDEO SIGNAL CABLING TO THE SECURITY RACK IN THE TELECOM MDF ROOM IN THE BASEMENT.
    - PROVIDE ALL CONNECTIONS FOR SECURITY DEVICES.
  - SECOND FLOOR SECURITY WALLFIELD
    - MOUNT (2) INFOGRAPHIC AGU2XL-16-A2C PANELS UTILIZED AT 12 CARD READERS USAGE EACH.
    - INSTALL (3) INFOGRAPHIC RRE-4-0 IN EACH OF THE TWO PANELS MENTIONED IN NOTE 3(a).
    - INSTALL (2) INFOGRAPHIC RIM-1 IN EACH OF THE TWO PANELS MENTIONED IN NOTE 3(a).
    - MOUNT (1) ALTRONIX 16 CAMERA CCTV POWER SUPPLY.
    - ROUTE ALL SECOND FLOOR SECURITY DEVICE CABLING, WITH THE EXCEPTION OF CCTV VIDEO SIGNAL CABLING, TO THE SECURITY WALLFIELD LOCATED IN THE SECOND FLOOR TELECOM IDF ROOM.
    - ROUTE ALL CCTV LOW VOLTAGE CABLING TO SECOND FLOOR SECURITY WALLFIELD. ROUTE ALL VIDEO SIGNAL CABLING TO THE SECURITY RACK IN THE TELECOM MDF ROOM IN THE BASEMENT.
    - PROVIDE ALL CONNECTIONS FOR SECURITY DEVICES.
  - FIRST FLOOR SECURITY WALLFIELD
    - MOUNT (2) INFOGRAPHIC AGU2XL-16-A2C PANELS UTILIZED AT 12 CARD READERS USAGE EACH.
    - INSTALL (3) INFOGRAPHIC RRE-4-0 IN EACH OF THE TWO PANELS MENTIONED IN NOTE 4(a).
    - INSTALL (2) INFOGRAPHIC RIM-1 IN EACH OF THE TWO PANELS MENTIONED IN NOTE 4(a).
    - MOUNT (1) ALTRONIX 16 CAMERA CCTV POWER SUPPLY.
    - ROUTE ALL FIRST FLOOR SECURITY DEVICE CABLING, WITH THE EXCEPTION OF CCTV VIDEO SIGNAL CABLING, TO THE SECURITY WALLFIELD LOCATED IN THE FIRST FLOOR TELECOM IDF ROOM.
    - ROUTE ALL CCTV LOW VOLTAGE CABLING TO FIRST FLOOR SECURITY WALLFIELD. ROUTE ALL VIDEO SIGNAL CABLING TO THE SECURITY RACK IN THE TELECOM MDF ROOM IN THE BASEMENT.
    - PROVIDE ALL CONNECTIONS FOR SECURITY DEVICES.

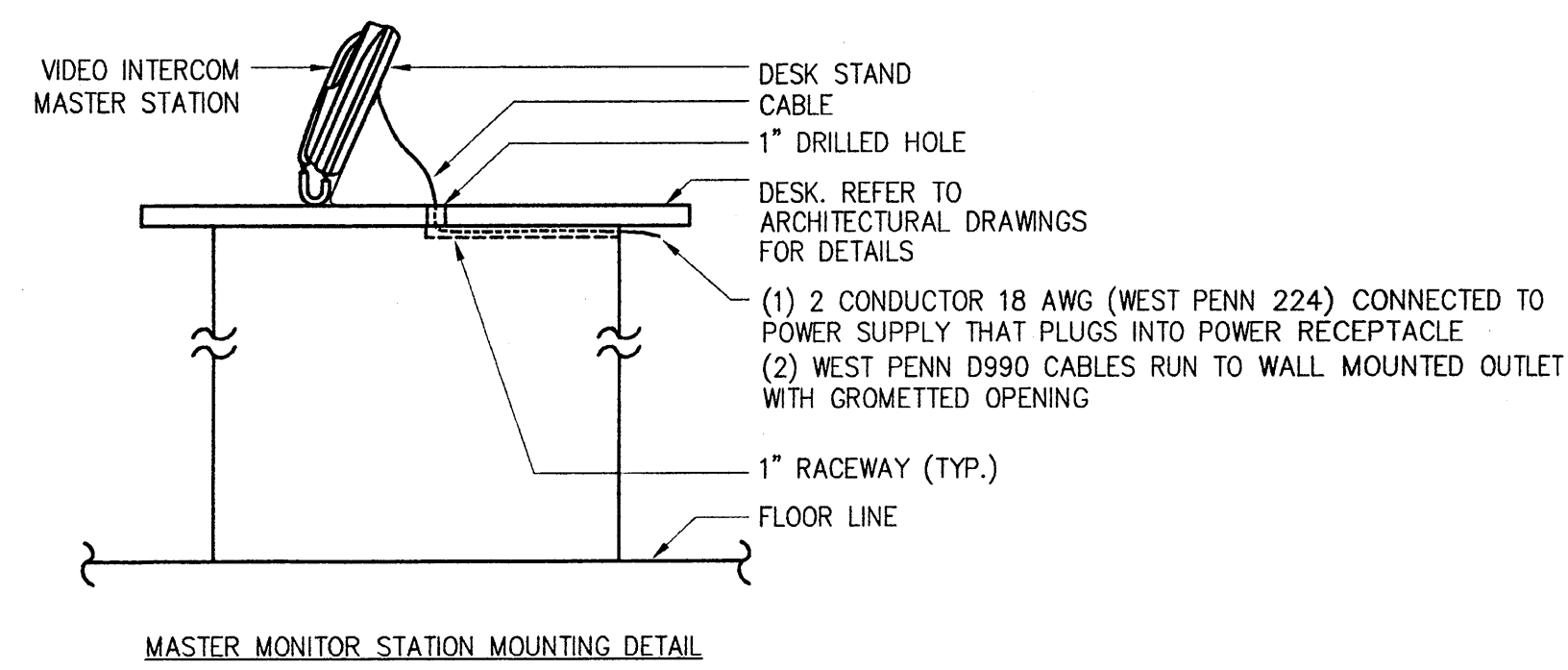
- NOTES FOR MDF:
- BASEMENT SECURITY WALLFIELD
    - MOUNT (1) INFOGRAPHIC AGU2XL-16-A2C PANEL UTILIZED WITH 12 CARD READERS USAGE.
    - INSTALL (3) INFOGRAPHIC RRE-4-0 IN THE PANEL MENTIONED IN NOTE 2(a).
    - INSTALL (2) INFOGRAPHIC RIM-1 IN THE PANEL MENTIONED IN NOTE 2(a).
    - MOUNT (1) ALTRONIX 16 CAMERA CCTV POWER SUPPLY.
    - ROUTE ALL BASEMENT SECURITY DEVICE CABLING, WITH THE EXCEPTION OF CCTV VIDEO SIGNAL CABLING, TO THE SECURITY WALLFIELD LOCATED IN THE BASEMENT TELECOM MDF ROOM.
    - ROUTE ALL CCTV LOW VOLTAGE CABLING TO THE BASEMENT SECURITY WALLFIELD. ROUTE ALL VIDEO SIGNAL CABLING TO THE SECURITY RACK IN THE TELECOM MDF ROOM IN THE BASEMENT.
    - PROVIDE ALL CONNECTIONS FOR SECURITY DEVICES.

- GENERAL NOTES:
- SECURITY CONTRACTOR TO PROVIDE FIRE RELAYS AND CONNECTION TO THE FIRE ALARM PANEL FOR ALL LOCKS, SUPPORTED BY LOCK POWER SUPPLIES LOCATED IN EACH RESPECTIVE IDF (TELECOM) ROOM AND MDF (CENT. TEL. ROOM). SECURITY CONTRACTOR TO TEST AND VERIFY THAT ALL FAIL-SAFE LOCKS ARE UNLOCKED IN THE EVENT OF A FIRE ALARM.
  - SECURITY CONTRACTOR TO UTILIZE TELECOM CABLE TRAYS, LADDER RACKS, J-HOOKS AND ANY OTHER CABLE SUPPORT METHODS REQUIRED FOR PROPER SECURITY CABLING INSTALLATION.

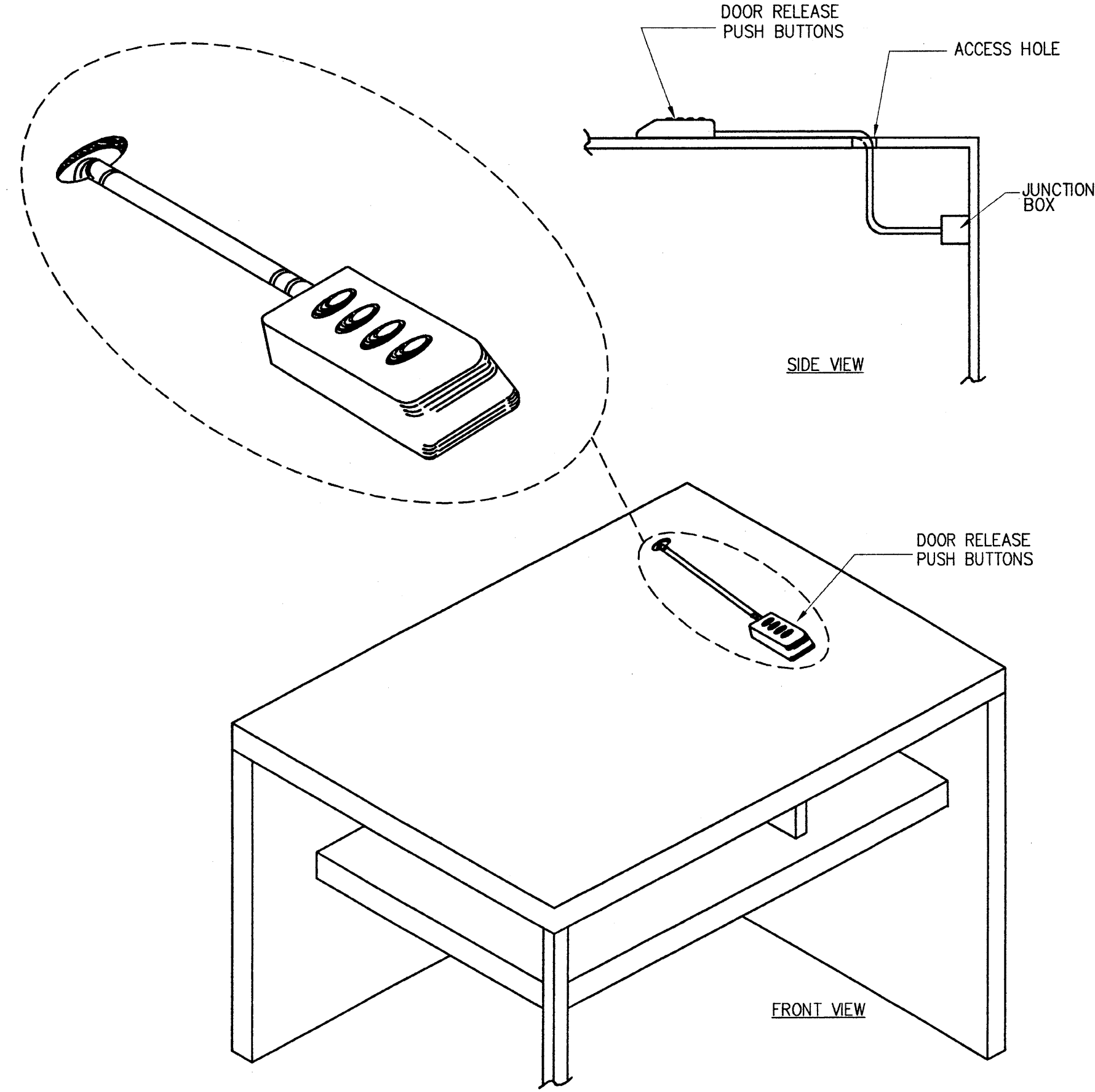
PROJECT NO. 344907 DATE: 6/26/04  
 SHEET OF SE-302  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318  
 SECURITY PART PLAN - MDF/IDF ROOMS  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 Montgomery County, Maryland  
 PROJECT MANAGER  
 DATE  
 CHIEF - PROJ. MGT. & DESIGN  
 DATE  
 TITLE  
 DATE  
 T\_HC\_ORIG-CONSTRUCT\_SE-302  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 MONTGOMERY COLLEGE APPROVAL



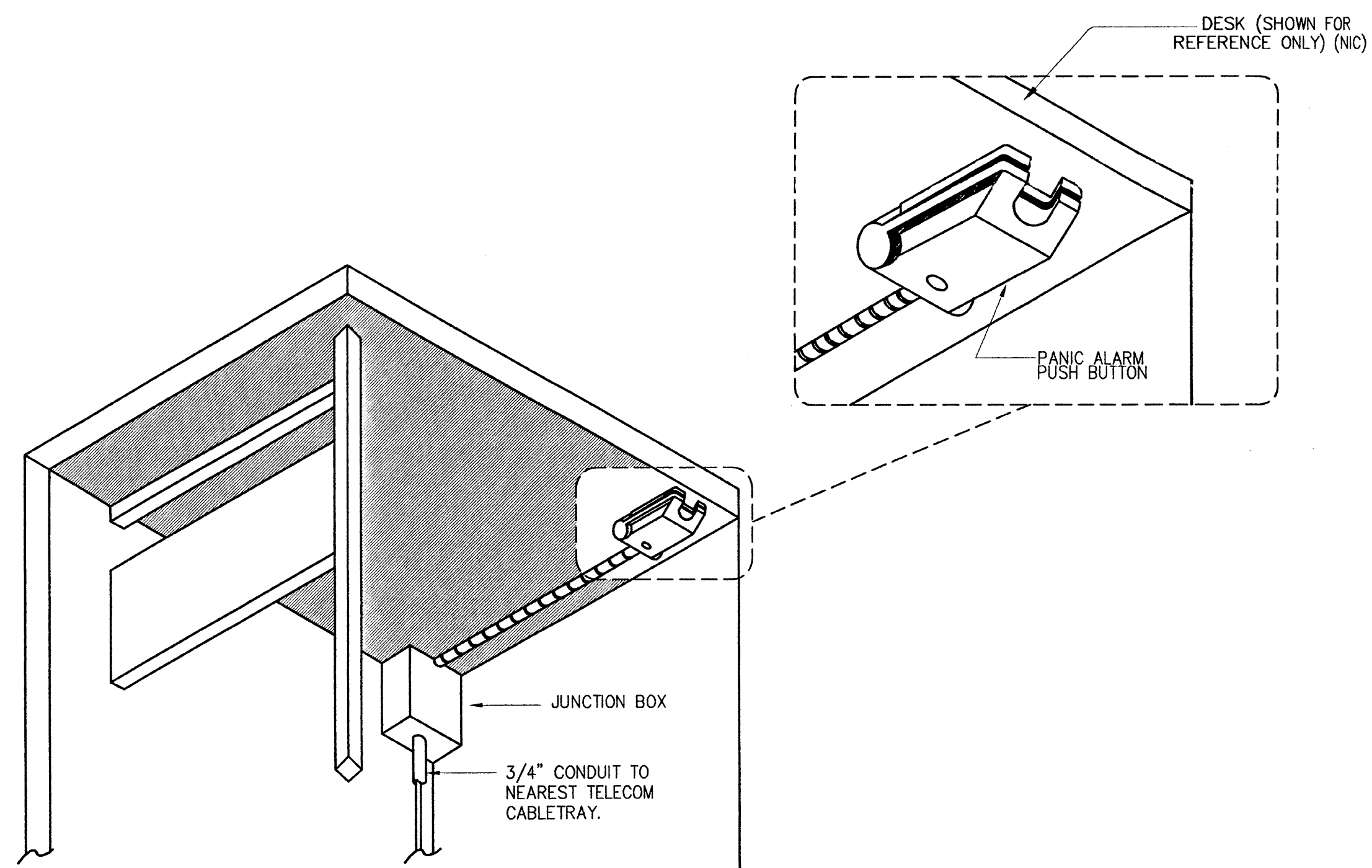
VIDEO DOOR STATION      MASTER MONITOR STATION



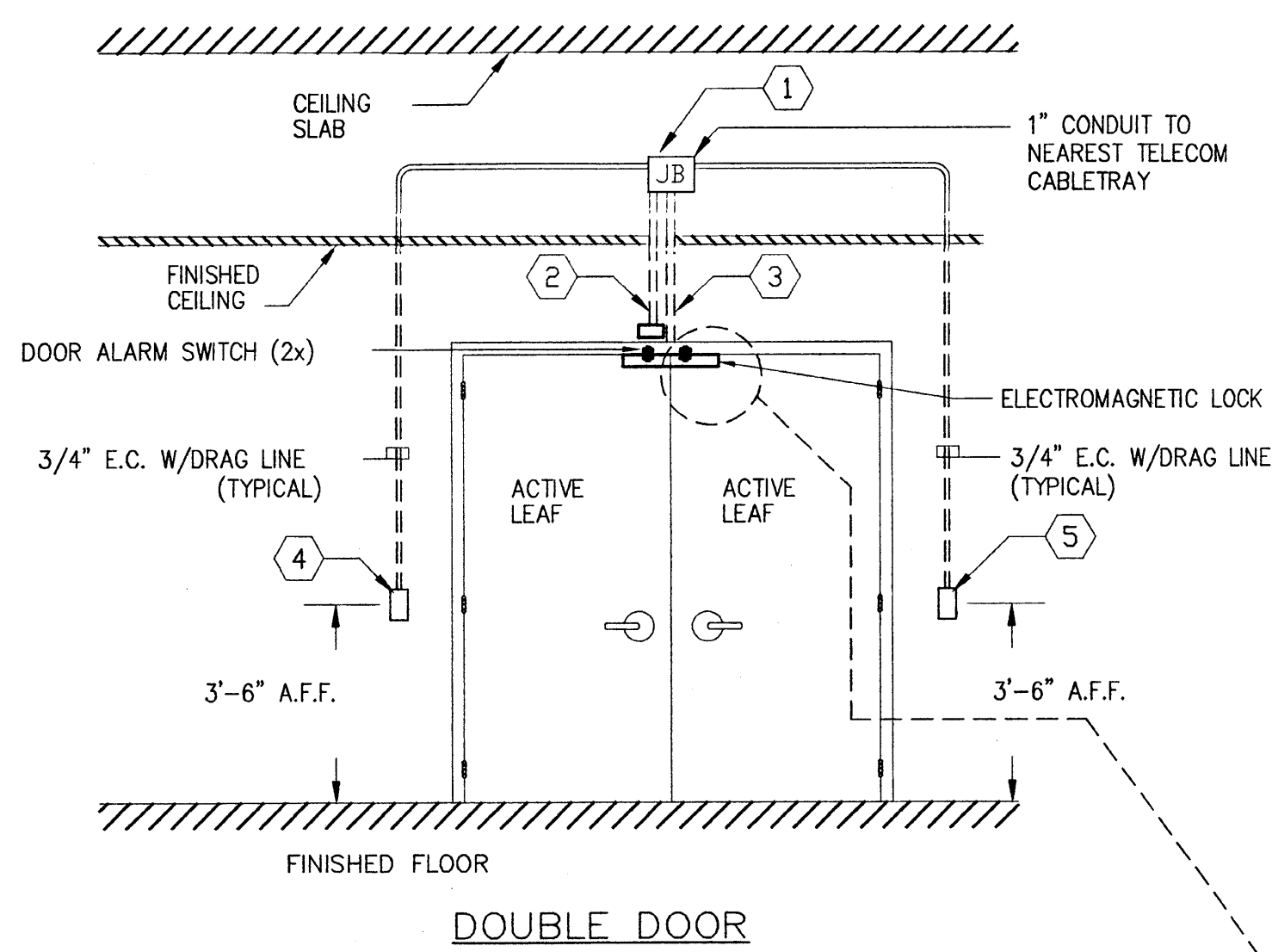
1 VIDEO INTERCOM STATION  
SCALE: NTS



2 DOOR RELEASE PUSH BUTTONS  
SCALE: NTS



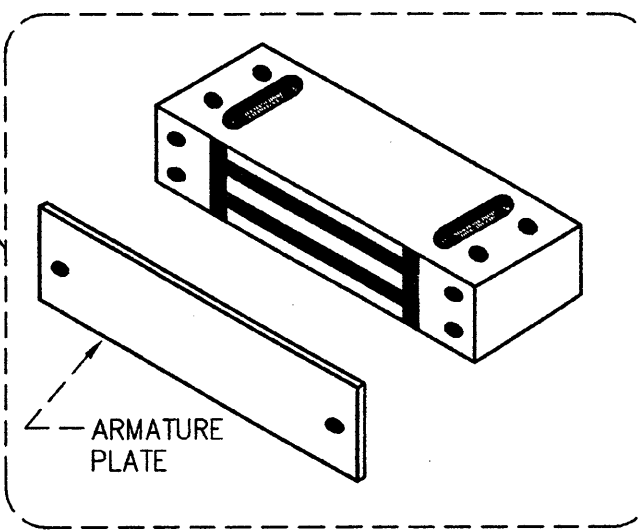
3 PANIC ALARM PUSH BUTTON  
SCALE: NTS

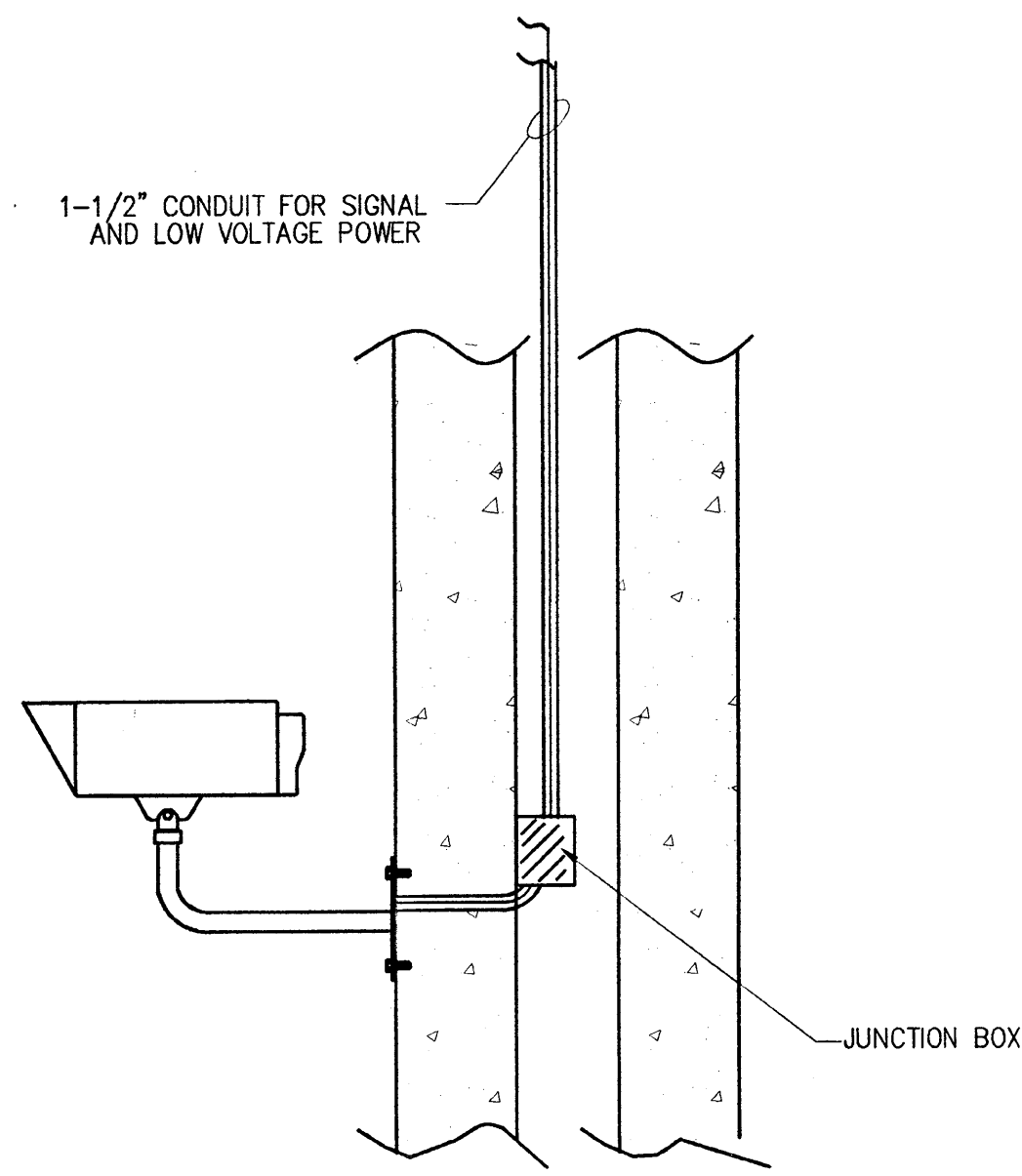


- 1 PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX [JB] OR 6" x 6" x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING (SEE SECURITY PLANS).
- 2 STUB 3/4" GREENFIELD DOWN TO REQUEST TO EXIT (MOTION SENSOR). COORDINATE EXACT LOCATION WITH ARCHITECT.
- 3 STUB 3/4" CONDUIT INTO HEAD OF DOOR FRAME AT CENTER OF DOOR.
- 4 PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED 3'-6" A.F.F. FOR REQUEST TO EXIT (PUSH BUTTON) [REX] ON THE SECURED SIDE.
- 5 PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED 3'-6" A.F.F. FOR CARD READER [CR] ON THE NON SECURED SIDE.

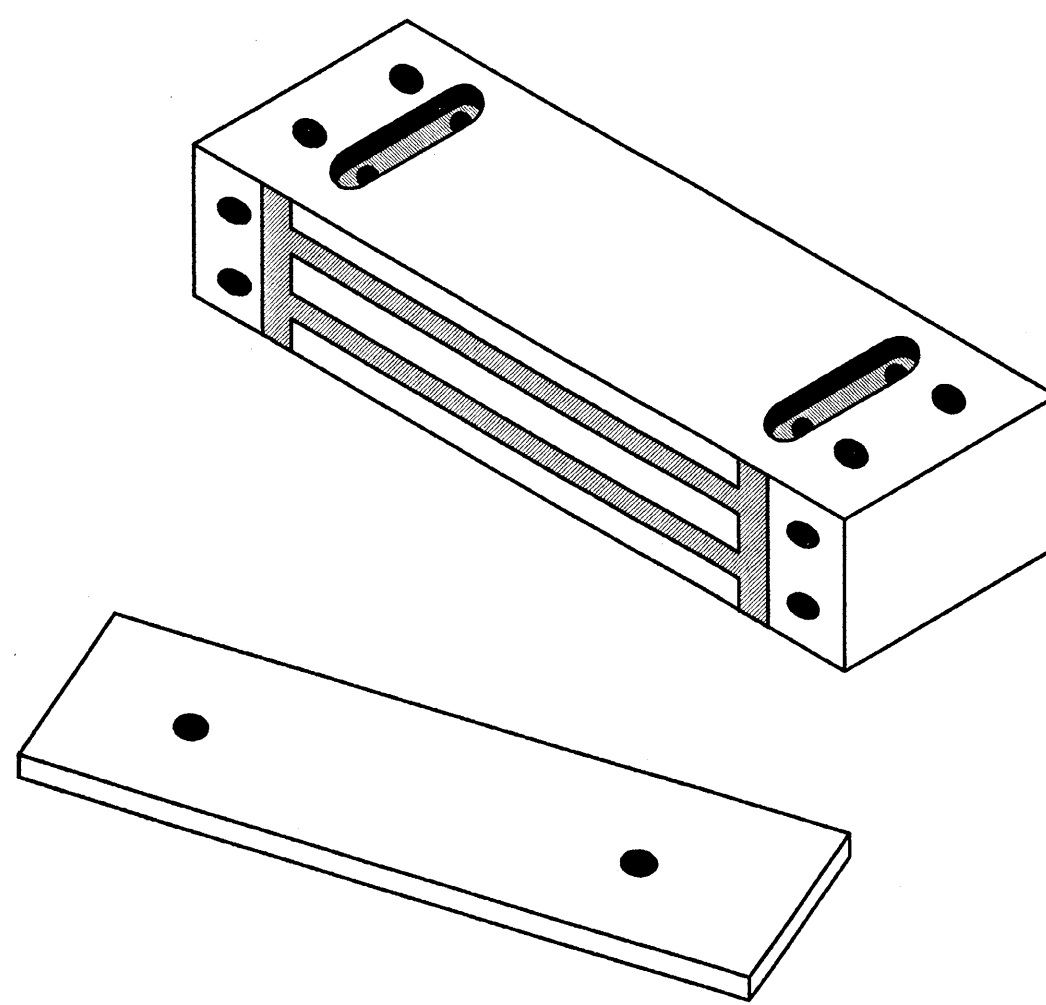
NOTE: 1. DETAIL REPRESENTS TYPICAL CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE LOCATIONS. EXACT LOCATIONS TO BE COORDINATED WITH THE ARCHITECT.  
2. SAME DETAIL WILL WORK FOR DOUBLE GLASS DOORS.

4 TYPICAL CONDUIT REQUIREMENTS  
DOUBLE HOLLOW METAL DOOR  
FOR CARD READER CONFIGURATION  
SCALE: NTS

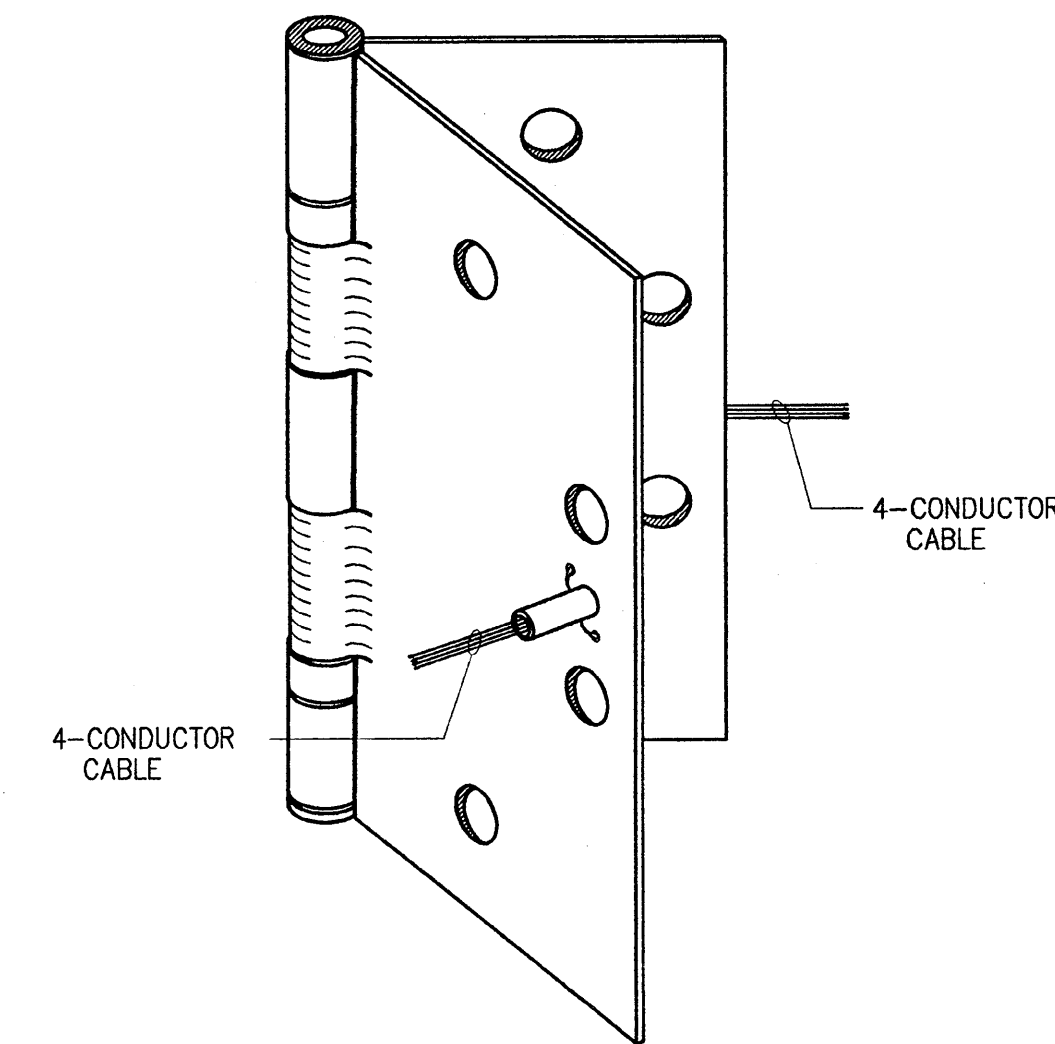




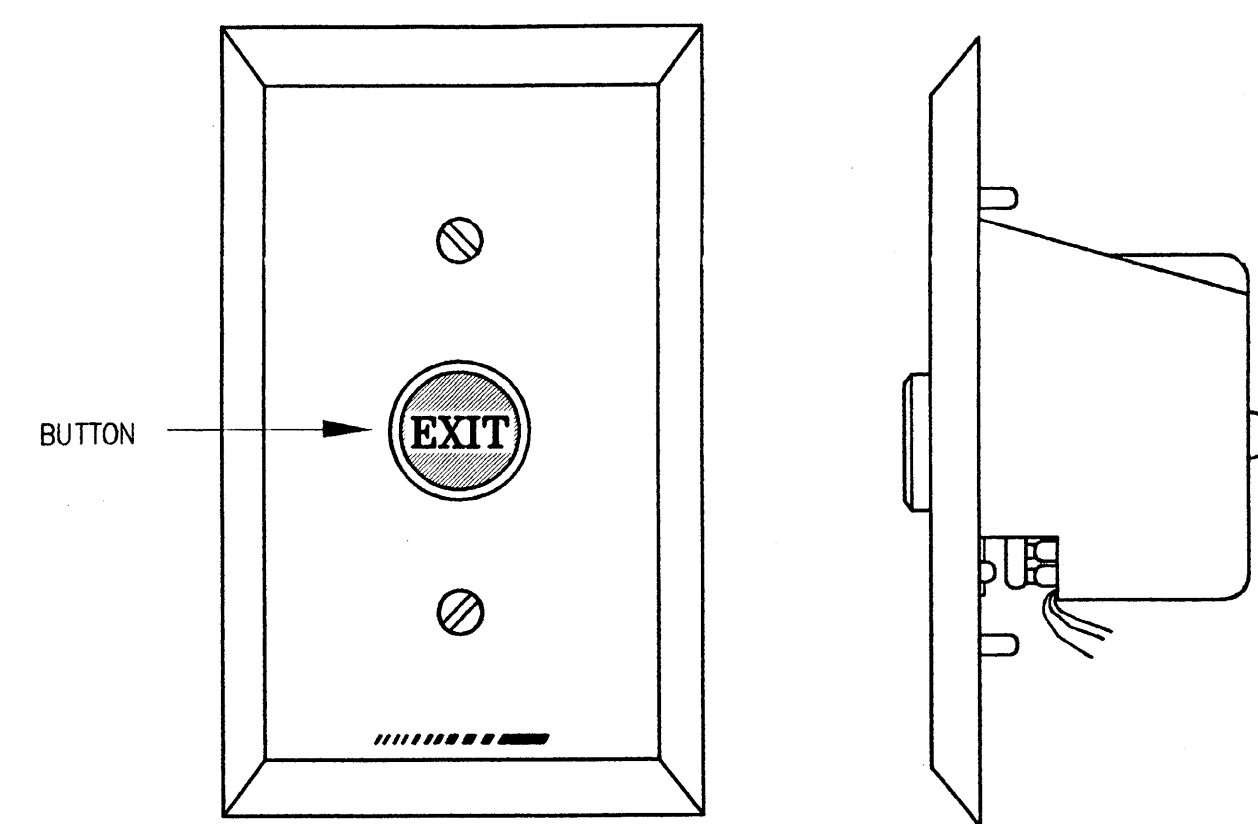
1 INTERIOR  
FIXED CAMERA DETAIL  
SCALE: NTS



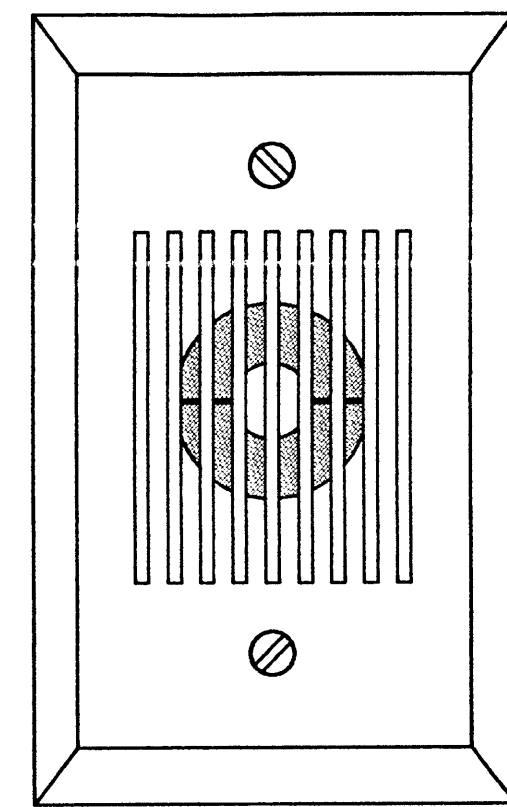
2 ELECTROMAGNETIC LOCK  
SCALE: NTS



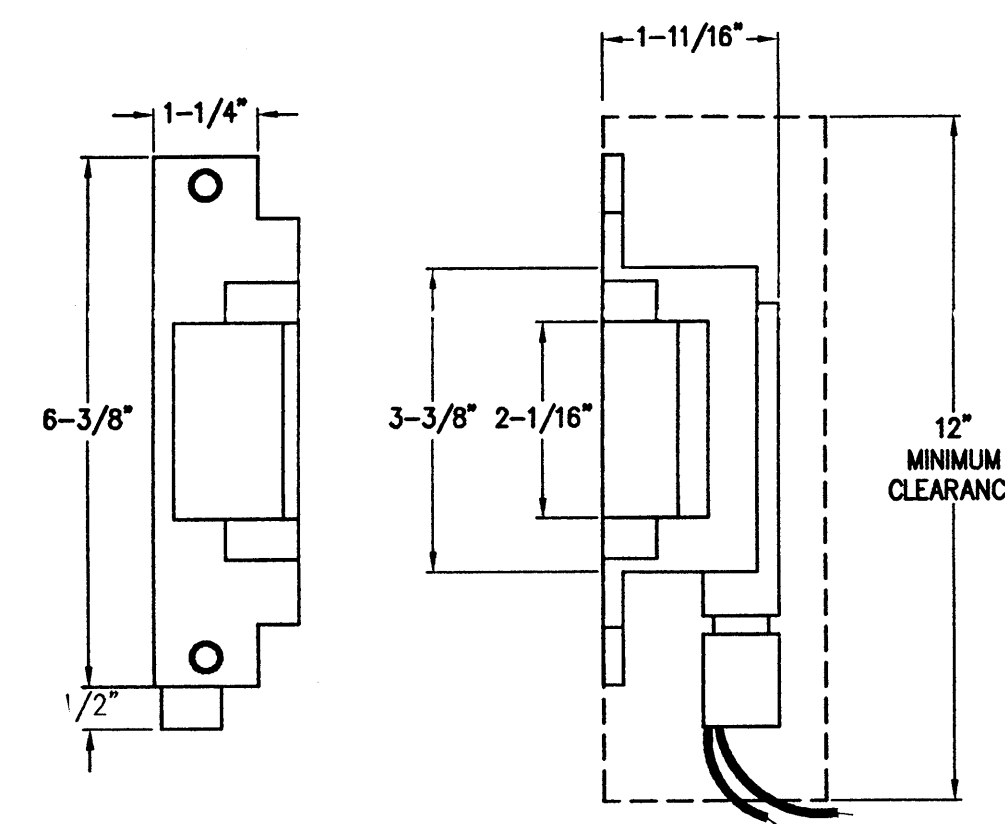
3 ELECTRIC TRANSFER HINGE  
SCALE: NTS



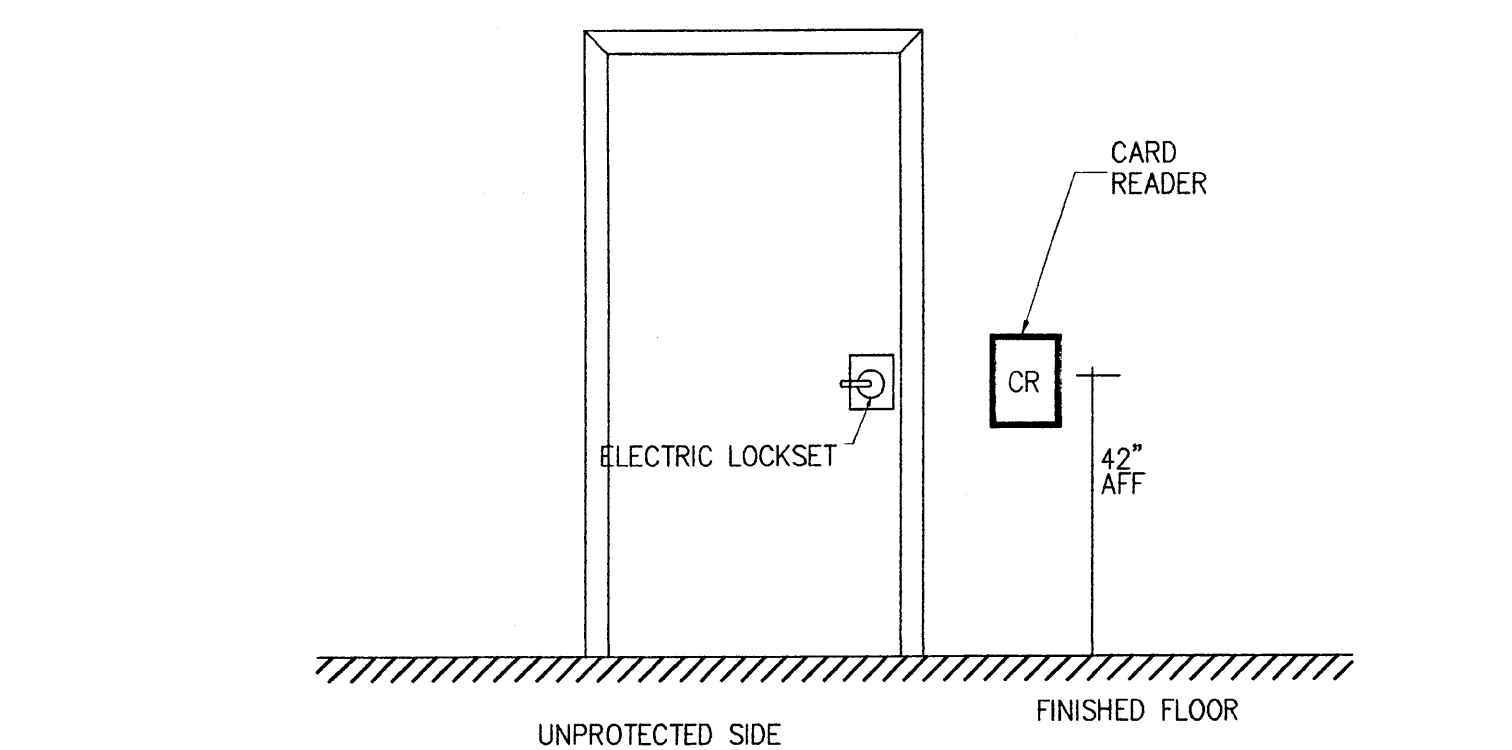
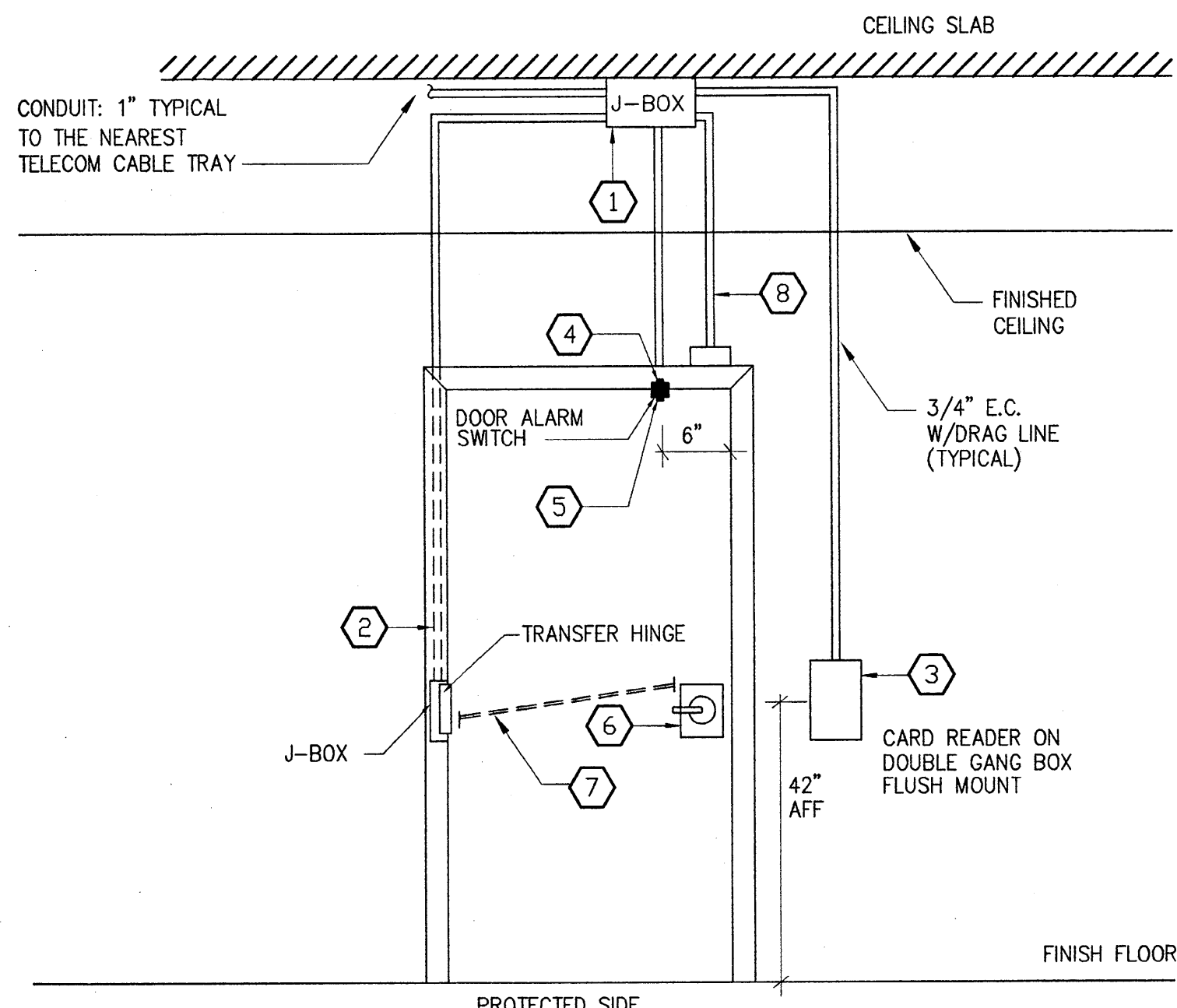
4 REQUEST TO EXIT  
PUSH-BUTTON  
SCALE: NTS



5 AUDIBLE DEVICE "AA"  
SCALE: NTS



6 ELECTRIC STRIKE  
SCALE: NTS

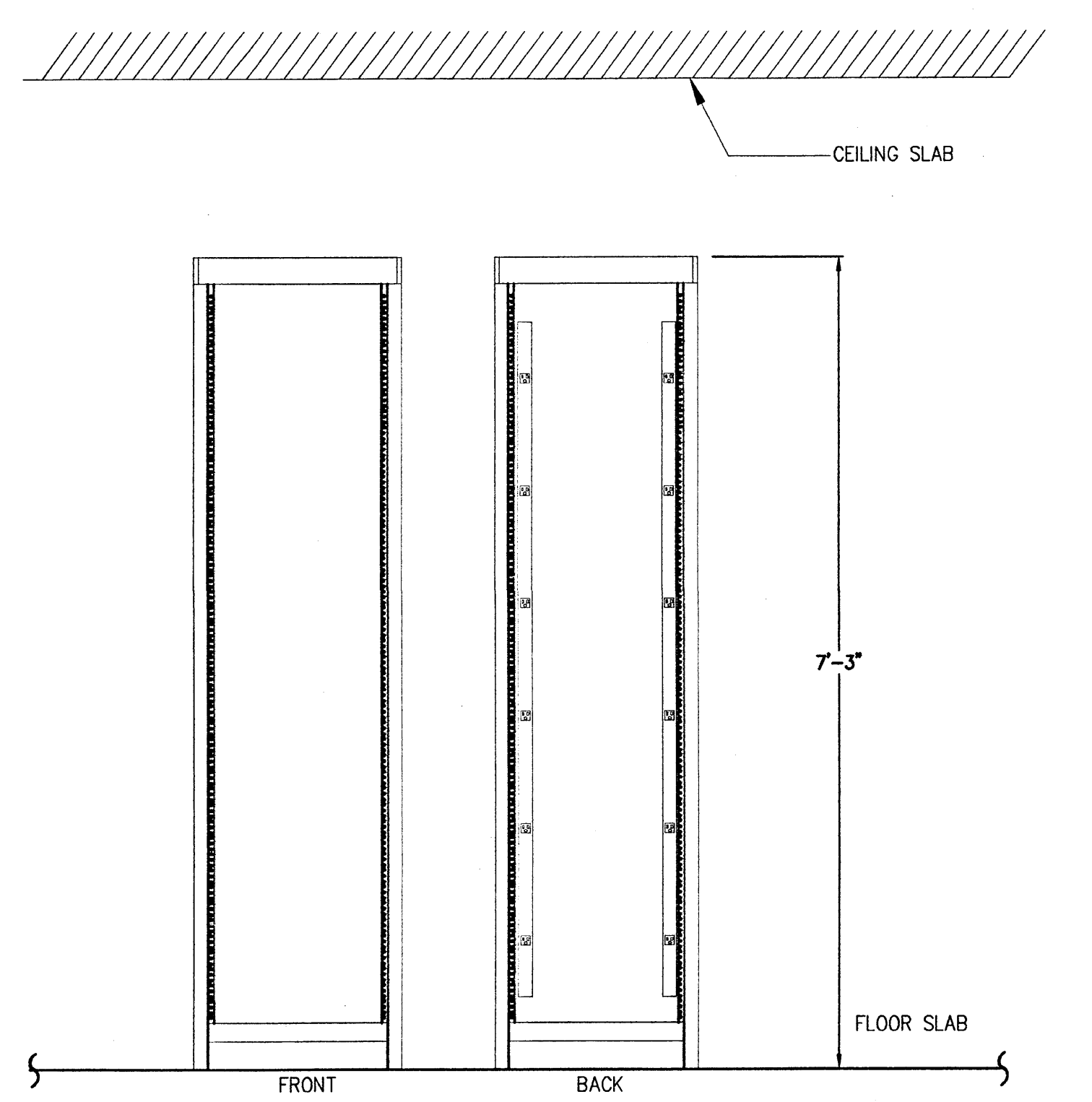


- SINGLE DOOR**
- 1 PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX [JB] OR 6" x 6" x 4" DEEP BOX MOUNTED ABOVE DOOR, ABOVE ACCESSIBLE CEILING (SEE SECURITY PLANS).
  - 2 STUB 3/4" CONDUIT OR GREENFIELD DOWN DOOR FRAME ON THE HINGE SIDE OF THE DOOR BACK BOX, TO JUNCTION BOX [JB] LOCATED ABOVE ACCESSIBLE CEILING.
  - 3 PROVIDE 4" x 4" x 2 1/8" DEEP JUNCTION BOX WITH SINGLE GANG DEVICE RING FLUSH MOUNTED 3"-6" A.F.F. FOR CARD READER [CR] ON THE NOW SECURED SIDE.
  - 4 DRILL 1" DIA. HOLE IN HEAD OF FRAME 6" FROM STRIKE SIDE OF FRAME FOR RECESSED DOOR CONTACT(S) [DC] (SEE SECURITY PLANS FOR DEVICE LOCATION)
  - 5 DRILL 1" DIA. x 1 3/4" DEEP HOLE IN TOP OF DOOR FOR DOOR MAGNET.
  - 6 ELECTRIFIED MORTISE LOCK SET [EL]
  - 7 CABLE THROUGH (POWER TRANSFER)

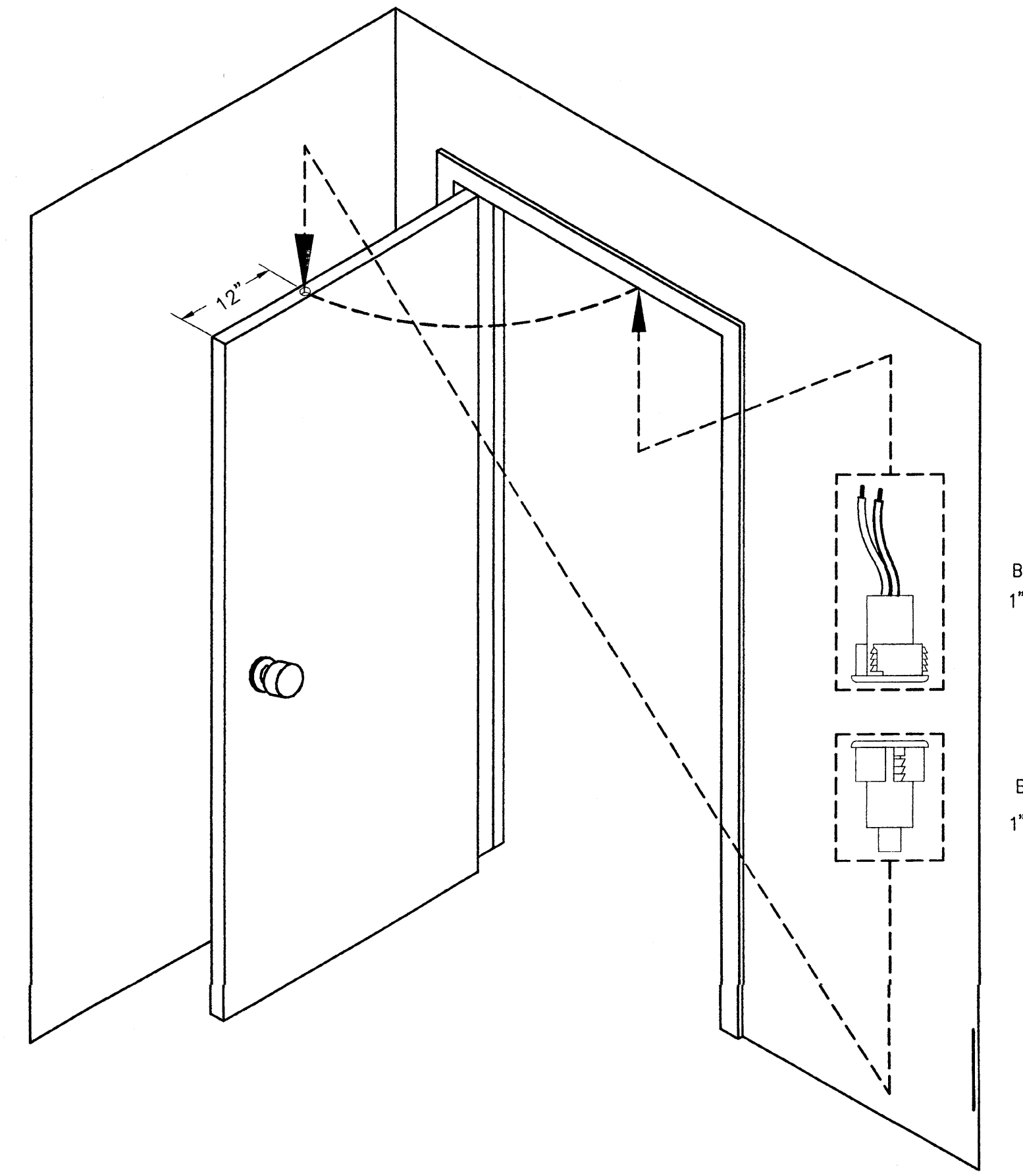
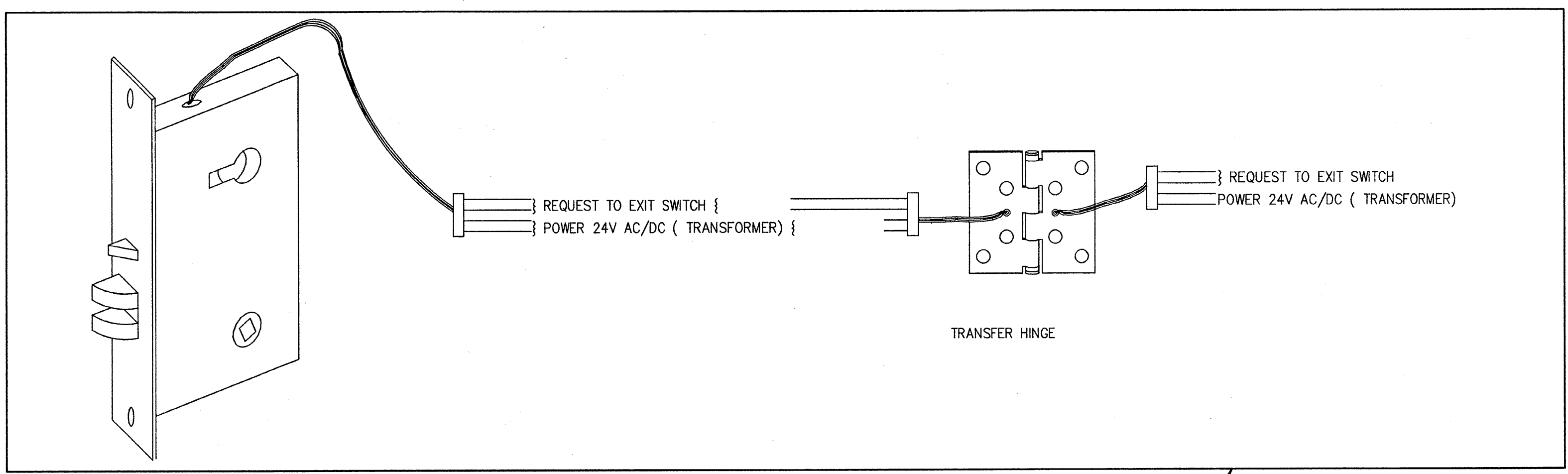
NOTE: DETAIL REPRESENTS TYPICAL CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE LOCATIONS. EXACT LOCATIONS TO BE COORDINATED WITH THE ARCHITECT.

**TYPICAL CONDUIT REQUIREMENTS SINGLE HOLLOW METAL/WOOD DOOR FOR CARD READER CONFIGURATION**

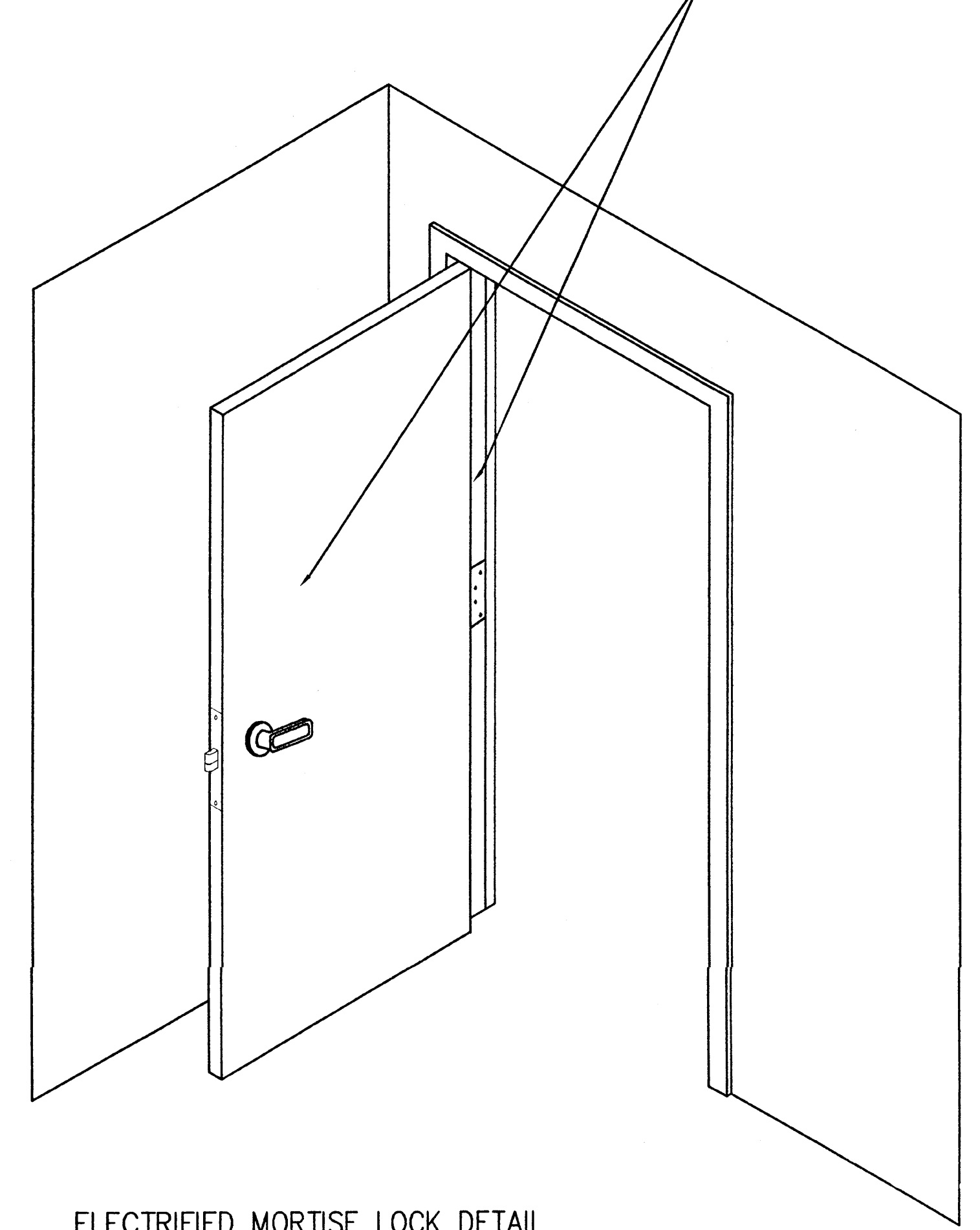
1 SCALE: NTS



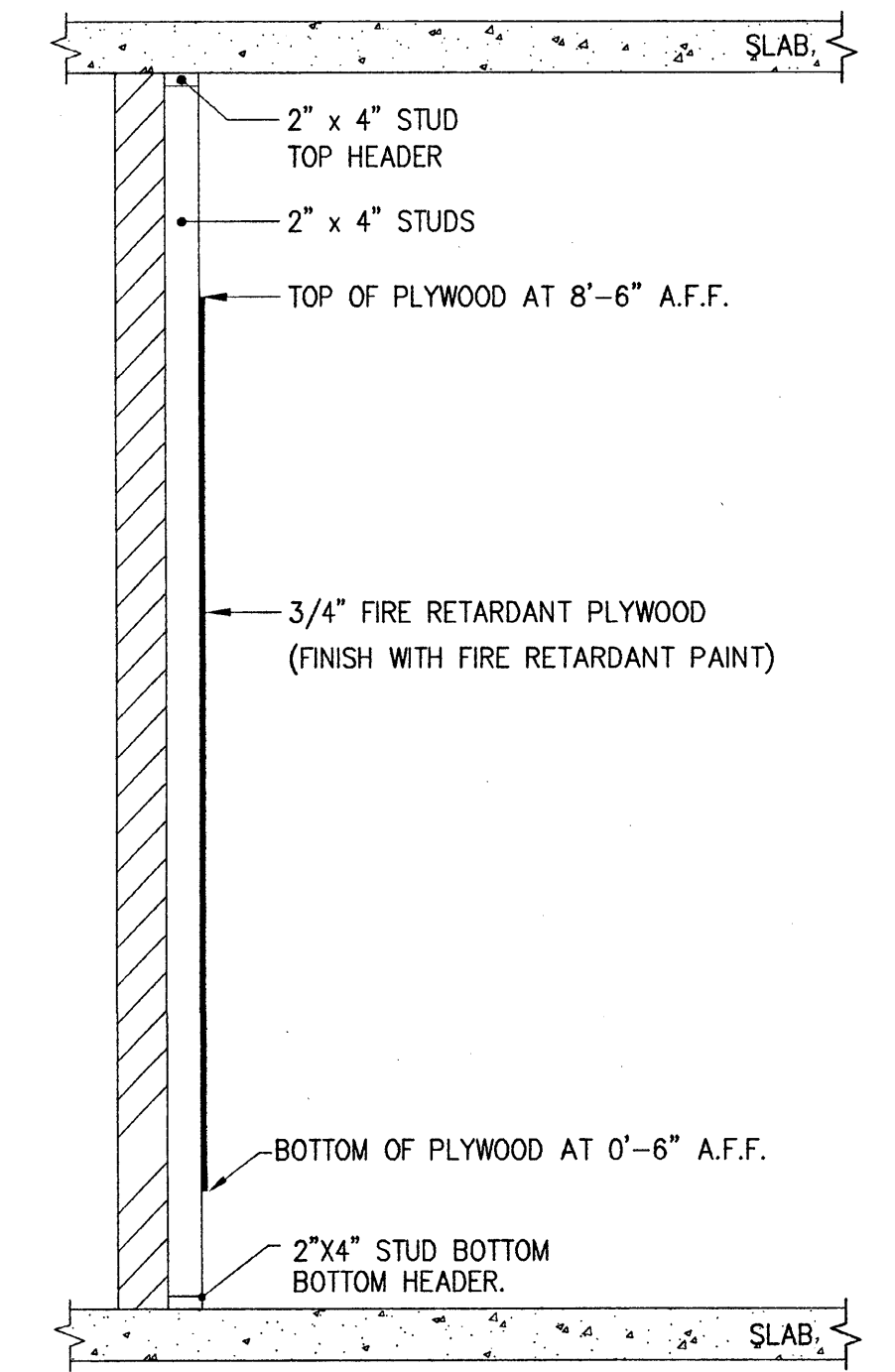
4 CCTV AND ACCESS CONTROL CABINET ELEVATION SCALE: NTS



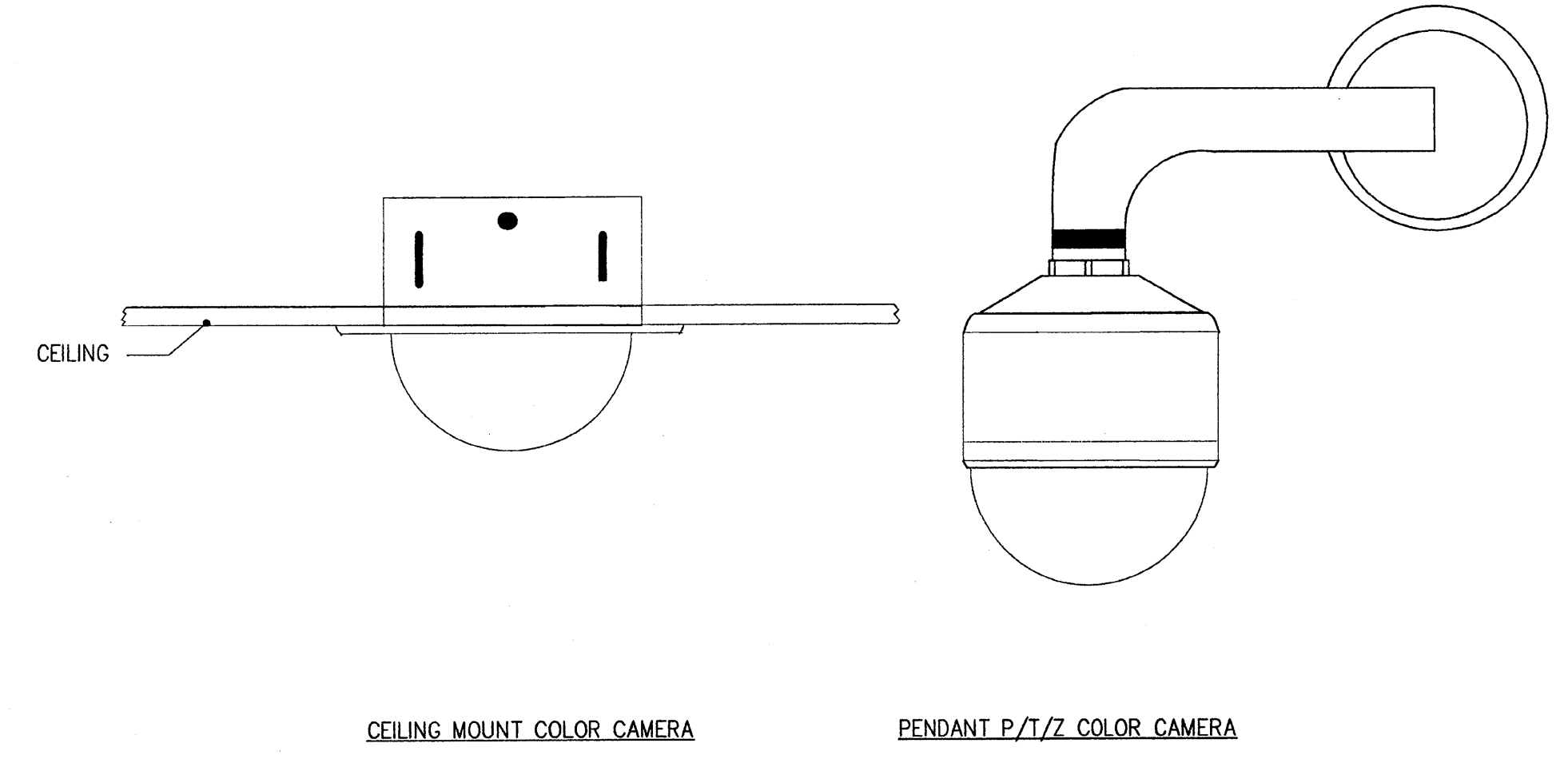
2 MAGNETIC DOOR CONTACT INSTALLATION DETAIL SENTROL MODEL NO. 1076W SCALE: NTS



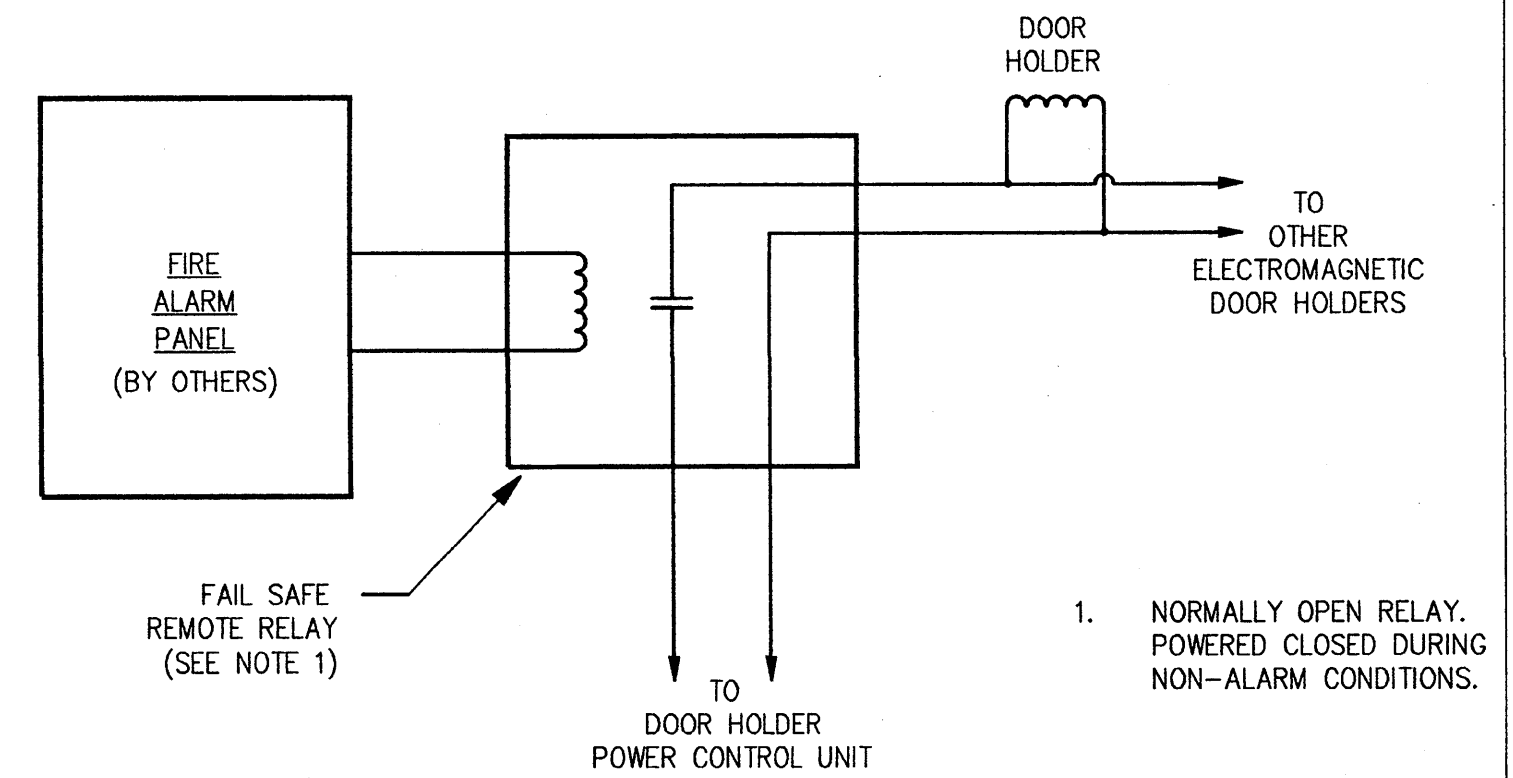
3 ELECTRIFIED MORTISE LOCK DETAIL WITH REQUEST TO EXIT SWITCH SCALE: NTS



5 TYPICAL WALLFIELD CONSTRUCTION (FOR ROOMS WITHOUT RAISED FLOOR) SCALE: NTS



6 CEILING MOUNT AND WALL MOUNT CAMERA DETAIL SCALE: NTS



7 AUTOMATIC DOOR RELEASE DETAIL SCALE: NTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SYMBOL	DESCRIPTION	NOTES
TELECOMM SYMBOLS		
▽	STANDARD WALL MOUNTED TELECOMM "VOICE/DATA" WORKSTATION OUTLET	
▽	STANDARD WALL MOUNTED TELECOMM "VOICE ONLY" WORKSTATION OUTLET	
▽	STANDARD WALL MOUNTED TELECOMM "DATA ONLY" WORKSTATION OUTLET (UNO)	
▽D	WALL MOUNTED TELECOMM DUPLEX "DATA ONLY" WORKSTATION OUTLET (UNO)	
▽O	WALL MOUNTED TELECOMM QUAD "DATA ONLY" WORKSTATION OUTLET	
▽F	WALL MOUNTED TELECOMM "FIBER ONLY" WORKSTATION OUTLET	
▽F	WALL MOUNTED "VOICE/DATA/FIBER" TELECOMM WORKSTATION OUTLET	(PROVIDE FOR 4TH FLOOR ONLY. FOR OTHER SHOWN LOCATIONS PROVIDE TYPICAL VOICE/DATA CABLING WITH ONLY BLANK INSERTS AND PULL STRING STRIP FOR FUTURE FIBER INSTALLATION - SAME CONFIGURATION AS ▽)
□	STANDARD "FLOOR MOUNTED BOX TYPE" TELECOMM "VOICE/DATA" WORKSTATION OUTLET	
□	STANDARD "FLOOR MOUNTED BOX TYPE" TELECOMM "TELEPHONE ONLY" WORKSTATION OUTLET	
□	STANDARD "FLOOR MOUNTED BOX TYPE" TELECOMM "DATA ONLY" WORKSTATION OUTLET	
□D	"FLOOR MOUNTED BOX TYPE" TELECOMM DUPLEX "DATA ONLY" WORKSTATION OUTLET	
□O	"FLOOR MOUNTED BOX TYPE" TELECOMM QUAD "DATA ONLY" WORKSTATION OUTLET	
	TELECOMMUNICATIONS CABLE TRAY SUPPORT SYSTEM (REFER TO CABLE TRAY SPEC. DRAWING FOR ADDITIONAL INFORMATION)	
	TELECOMMUNICATIONS CENTER HUNG CABLE TRAY SUPPORT SYSTEM (REFER TO CABLE TRAY SPEC. DRAWING FOR ADDITIONAL INFORMATION)	
-----	ROUTING OF MULTIPLE OR INDIVIDUAL TELECOMM CABLES TO WORKSTATION OUTLETS ON THIS FLOOR	
-----	ROUTING OF MULTIPLE OR INDIVIDUAL TELECOMM CABLES IN THE CEILING OF FLOOR BELOW	
○	WALL MOUNTED JUNCTION BOX FOR IN-FEED OF VOICE AND DATA CABLING INTO FURNITURE SYSTEMS.	
○	POKE-THRU DEVICE COMMON FOR ELEC. AND TELECOMM. FURNITURE FEEDS	
○	POKE-THRU DEVICE FOR TELECOMM. ONLY FURNITURE FEEDS	
WAP	WIRELESS ACCESS POINT	
*	PROVIDE FURNITURE MOUNTED TELECOMM "DATA ONLY" WORK STATION OUTLET WHEN THE OUTLET SYMBOL IS SHOWN ON THE FURNITURE ON THE PLAN (FIXX SERIES) FOR THE FOLLOWING ROOMS ONLY : ROOM #127 (LECTURE HALL), 140 (COMPUTER LAB), 231 (VIRTUAL LIB. STUDY SPACE), 221 (MEDICAL LEARNING CENTER, 222 (GIT LAB), 223 (LECTURE HALL) AND 228 (COMPUTER LAB)	
**	PROVIDE FURNITURE MOUNTED TELECOMM "DATA ONLY" DUPLEX WORKSTATION OUTLET WHEN THE OUTLET SYMBOL IS SHOWN ON THE FURNITURE ON THE PLAN (FIXX SERIES) FOR THE FOLLOWING ROOMS ONLY : ROOM #127 (LECTURE HALL), 140 (COMPUTER LAB), 231 (VIRTUAL LIB. STUDY SPACE), 221 (MEDICAL LEARNING CENTER, 222 (GIT LAB), 223 (LECTURE HALL) AND 228 (COMPUTER LAB)	

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SYMBOL	DESCRIPTION	NOTES
ELECTRICAL SYMBOLS		
○	PULL BOX OR JUNCTION BOX WALL MOUNTED	
○	PULL BOX OR JUNCTION MOUNTED AT CEILING	
-----	PLUG MOLD OUTLET STRIP	
□	PULL BOX OR JUNCTION BOX LARGE CUSTOM FABRICATED TYPE	
	CONDUIT BANK	
	CONDUIT BANK STUBBED UP	
	CONDUIT BANK STUBBED DOWN	
	CONDUIT BANK OFFSET WITHIN SAME LEVEL	
	CONDUIT BANK TERMINATED	
	CONDUIT TURNED DOWN	
	CONDUIT TURNED UP	
	CONDUIT THROUGH WALL WITH BUSHED ENDS.	
	SLEEVE THROUGH WALL WITH BUSHED ENDS.	

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GENERAL WORK NOTES FOR IDF AND MDF ROOM	
1. USE LADDER RACK TO SUPPORT CABLES WITHIN THE IDF/MDF ROOM.	
2. CONTRACTOR TO FIRESTOP AND SEAL AROUND WALL PENETRATIONS TO MAINTAIN FIRE RATING AND PRESENT AIR FLOW. (TYP.)	
3. ALL CABLE TRAY AND KINDORF FRAMING IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.	
4. ELECTRICAL CONTRACTOR TO COORDINATE CABLE TRAY SUPPORT SYSTEM AND KINDORF FRAMING LOCATION WITH TELECOMM CONTRACTOR.	
5. MAINTAIN A MINIMUM OF 6" CLEARANCE ABOVE AND BELOW THE CABLE TRAY.	
6. COORDINATE LADDER RACK LOCATION INSIDE THE IDF/MDF ROOM WITH OUTSIDE CABLE TRAY LOCATION.	
7. REFER TO LIGHTING DRAWINGS FOR LIGHTING FIXTURE PLACEMENT AND ASSIGNMENT OF FIXTURES ON EMERGENCY POWER AND UPS POWER (50% OF LIGHTING FIXTURES TO BE TIED TO EMERGENCY POWER AND 25% TO UPS POWER).	
8. PROVIDE BODINE EMERGENCY LIGHTING BATTERY PACKS FOR LIGHT FIXTURES MARKED E.M.	
9. ALL ELECTRICAL RECEPTACLES, GROUND BARS, LIGHTING FIXTURES, KINDORF FRAMING, CONDUITS AND SLEEVES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.	
10. CATV, AV AND SECURITY EQUIPMENT WITHIN THE IDF/MDF ROOM IF ANY, IS TO BE PROVIDED BY OTHERS.	
11. THE WALL PHONE SHALL BE MOUNTED AT 54" A.F.F.	
12. ALL COORDINATION IN THE CEILING SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.	
13. ALL THE COMMUNICATION RACKS SHOULD BE PROVIDED BY THE COMMUNICATIONS CONTRACTOR.	
14. "STREETS" & "AVENUES" ARE IDENTIFIED TO ENSURE THAT THE TELECOMMUNICATIONS AND POWER DISTRIBUTION IS PERFORMED IN A UNIFORM AND ORGANIZED MANNER. THE ROUTING INDICATED IS PROVIDED AS A DESIGN INTENT AND NOT AS A SUBSTITUTE FOR SITE INSPECTIONS AND COORDINATION.	
15. THE CABLING CONTRACTOR SHALL COORDINATE ALL ROUTING WITH THE ELECTRICAL CONTRACTOR TO ENSURE ALL INTENDED ROUTING IS BEING ADHERED TO ANY DEVIATION FROM THE ABOVE ROUTING SHOULD BE BROUGHT TO THE ENGINEERS ATTENTION.	
16. CONTRACTOR TO FIRESTOP AND SEAL AROUND ALL WALL PENETRATION TO MAINTAIN FIRE RATING AND PREVENT AIR FLOW.(TYP.)	
17. FRAMED OPENING FOR CABLE TRAY SHOULD BE 30" X 8" CLEAR (TYP.), COORDINATE WITH OUTSIDE CABLE TRAY LOCATION.	

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SPECIAL SYMBOLS	
CERTAIN SYMBOLS SHOWN IN THE SYMBOL LIST DO NOT APPEAR ELSEWHERE IN THE DRAWINGS (SUCH SYMBOLS ARE INCLUDED TO PERMIT INTERPRETATIONS TO BE MADE IN THE EVENT OF DESIGN CHANGES) FOR THIS REASON THE SCOPE OF THE WORK IS TO BE DETERMINED ONLY FROM DRAWINGS OTHER THAN THE SYMBOL LIST.	

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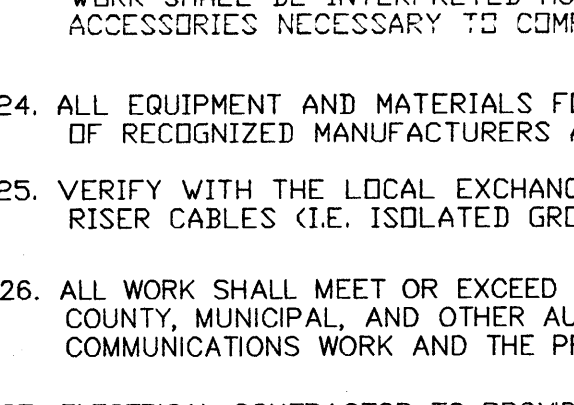
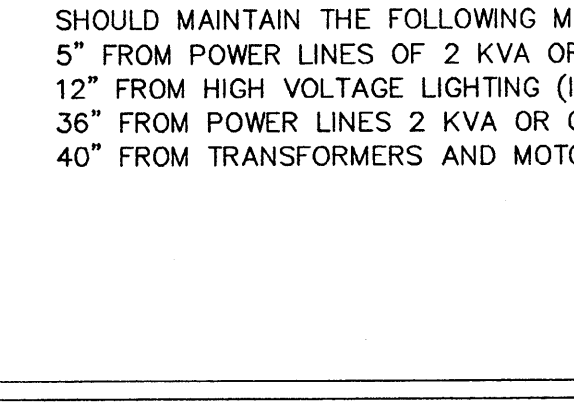
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TAG SYMBOLS	
XXXXXX TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG	 <p>BLANK = STANDARD TELECOMM "VOICE/DATA" OUTLET  "-T" = STANDARD TELEPHONE ONLY OUTLET  "-D" = STANDARD DATA ONLY OUTLET  "-F" = DATA ONLY "FIBER" OUTLET  "-DD" = DUPLEX DATA ONLY OUTLET  "-OD" = QUAD DATA ONLY OUTLET  "-FD" = VOICE/DATA/FIBER OUTLET  UNIQUE OUTLET NUMBER FLOOR</p>
XXXXXXX TELECOMMUNICATIONS PATCH PANEL PORT TAG/OUTLET JACK TAG	 <p>V1 = VOICE #1  V2 = VOICE #2  D1 = DATA #1  D2 = DATA #2  D3 = DATA #3  D4 = DATA #4</p> <p>"-T" = STANDARD TELECOMM "VOICE/DATA" OUTLET  "-T" = STANDARD TELEPHONE ONLY OUTLET  "-D" = STANDARD DATA ONLY OUTLET  "-F" = DATA ONLY "FIBER" OUTLET  "-DD" = DUPLEX DATA ONLY OUTLET  "-OD" = QUAD DATA ONLY OUTLET  "-FD" = VOICE/DATA/FIBER OUTLET  UNIQUE OUTLET NUMBER FLOOR</p>
XX TC-XX	STANDARD DETAIL No. DESIGNATION
1 TC-20	DRAWING No.
X	REVISION No.
⊖	STANDARD REVISION BUBBLE
X	INDEXING SYMBOL
1 TC-XX	HEXAGONAL SYMBOLS CONTAINING ARABIC NUMBERS ONLY INDICATE REFERENCE TO AN EXPLANATION OF TELECOMM WORK REQUIREMENTS.
1 TC-XX	ELEV. TAG

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GENERAL NOTES	
1. ALL LOCATIONS IDENTIFIED WITH A TELECOMMUNICATIONS OUTLET SHALL BE PROVIDED WITH THE APPROPRIATE CABLING AS INDICATED.	
2. ALL CABLES SHALL ORIGINATE AND TERMINATE BASED ON THE OUTLET LOCATION AND ASSOCIATED SYMBOL, LEGEND AND NOTES. ALL OUTLET CABLES WILL TERMINATE IN THEIR RESPECTIVE FLOOR IDF/MDF ROOM (UNO).	
3. ALL STATION CABLES ROUTED VIA THE CEILING OF FLOOR BELOW SHALL BE BUNDLED SEPARATELY FROM THE CABLES SERVING WORKSTATION OUTLETS ON THAT FLOOR.	
4. WORKSTATION CABLING THAT BRANCHES OFF OF THE CABLE TRAY, AND/OR KINDORF FRAMING SHALL BE SUPPORTED USING J-HOOKS OFF OF CEILING SUPPORT HANGERS NO MORE THAN 5 FEET APART TO ELIMINATE CABLE STRESS. BUNDLES SHALL NOT EXCEED 3" IN DIAMETER, AND SHOULD BE TIE WRAPPED NO MORE THAN 6 FEET ON CENTER.	
5. TELECOMM JUNCTION BOX CONDUITS USED TO FEED TELECOMM WORKSTATIONS IN INACCESSIBLE CEILING AREAS SHALL BE EXTENDED TO NEAREST ACCESSIBLE CEILING AREA ON THE SAME FLOOR.	
6. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHT (IF APPLICABLE) OF ALL DEVICES.	
7. ALL CONDUITS, RACEWAYS, CABLE TRAYS, JUNCTION BOXES, BACKBOXES/FLOORBOXES ETC. FOR THE COMMUNICATIONS WORK SHALL BE PROVIDED AND COORDINATED BY THE ELECTRICAL CONTRACTOR.	
8. NO FURNITURE OUTLET SYMBOLS ARE SHOWN ON THE FLOOR PLANS FOR THE FURNITURE MOUNTED OUTLETS. WHERE A TELECOMMUNICATIONS TAG IS SHOWN ON THE FLOOR PLAN IT SHALL BE UNDERSTOOD THAT A TELECOMMUNICATIONS OUTLET SHALL BE PROVIDED FOR THAT SPECIFIC LOCATION. COORDINATE THE EXACT OUTLET LOCATION WITH THE FURNITURE VENDOR.	
9. ALL COMMUNICATIONS IN-FEEDS TO FURNITURE SYSTEMS SHALL BE COORDINATED WITH THE FURNITURE SYSTEM VENDOR.	
10. ALL EMPTY CONDUITS ARE TO BE PROVIDED WITH A MINIMUM OF (2) NYLON DRAG CURDS, AND FITTED WITH BUSHED ENDS.	
11. ALL TELECOMM STATION CABLES SHOULD ORIGINATE AND TERMINATE ON THE SAME FLOOR. (UNO)	
12. ALL LOCATIONS IDENTIFIED WITH A TELECOMM OUTLET SHALL BE PROVIDED WITH BACKBOX AND A 1" STUB-UP CONDUIT TO ACCESSIBLE CEILING (PROVIDED BY ELECTRICAL CONTRACTOR).	
13. THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES THAT ARISE DURING THE SITE VISIT AND SHALL REQUEST CLARIFICATION, IF NECESSARY.	
14. THE DRAWINGS FOR COMMUNICATIONS WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL, THEREFORE, BE INSTALLED TO FULLY REFLECT THE DIAGRAMMATIC INTENT EXPRESSED IN THE COMMUNICATIONS DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED IN THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.	
15. CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR COMMUNICATIONS WORK WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBLIATE FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.	
16. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE OPERATING AND INSTALLATION SYSTEM. ALL WORK NECESSARY TO PROVIDE SUCH A SYSTEM SHALL BE PERFORMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.	
17. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF WORK.	
18. ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID, EXCEPT WHERE THERE IS SPECIFIC REFERENCE TO EXCLUSION AND INCORPORATION IN OTHER QUOTATIONS.	
19. ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTY, MUNICIPAL, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER THE COMMUNICATIONS WORK AND THE PROJECT.	
20. ANY WORK REQUIRED DUE TO DIFFICULTIES RESULTING FROM EXISTING CONDITIONS SHALL BE INCLUDED AND DESCRIBED IN THE BASE BID.	
21. EXCEPT WHERE MODIFIED BY A SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY COMMUNICATIONS ITEM IN THE DRAWINGS AND SPECIFICATIONS FOR COMMUNICATIONS WORK CARRIES WITH IT THE INSTRUCTION TO FURNISH, INSTALL AND CONNECT THE ITEM AS PART OF THE COMMUNICATIONS WORK REGARDLESS OF WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.	
22. IT SHALL BE UNDERSTOOD THAT THE SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND ARE TO BE TAKEN TOGETHER FOR A COMPLETE INTERPRETATION OF THE WORK. WHERE THERE ARE CONFLICTS BETWEEN THE DRAWINGS AND SPECIFICATIONS OR WITHIN THE SPECIFICATIONS OR DRAWINGS THEMSELVES, THE ITEMS OF HIGHER STANDARD SHALL GOVERN.	
23. NO EXCLUSION FROM OR LIMITATION IN, THE SYMBOLISM USED ON THE DRAWINGS FOR COMMUNICATIONS WORK OR THE LANGUAGE USED IN THE SPECIFICATIONS FOR COMMUNICATIONS WORK SHALL BE INTERPRETED AS A REASON FOR OMITTING THE APPURTENANCES OR ACCESSORIES NECESSARY TO COMPLETE ANY REQUIRED SYSTEM OR ITEM OF EQUIPMENT.	
24. ALL EQUIPMENT AND MATERIALS FOR PERMANENT INSTALLATION SHALL BE THE PRODUCTS OF RECOGNIZED MANUFACTURERS AND SHALL BE NEW.	
25. VERIFY WITH THE LOCAL EXCHANGE CARRIER HIS APPROVED METHOD OF BONDING RISER CABLES (I.E. ISOLATED GROUND, GROUND BAR, PROVIDED BY LEC).	
26. ALL WORK SHALL MEET OR EXCEED THE LATEST REQUIREMENTS OF ALL NATIONAL, STATE, COUNTY, MUNICIPAL, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER THE COMMUNICATIONS WORK AND THE PROJECT.	
27. ELECTRICAL CONTRACTOR TO PROVIDE ALL BACKBOXES FOR ALL TELECOMMUNICATIONS OUTLETS (WALL MOUNT, FLOOR MOUNT, FURNITURE MOUNT). CONTRACTOR TO REFER TO TELECOMMUNICATIONS DRAWINGS, SPECIFICATIONS AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIREMENTS.	
28. ELECTRICAL CONTRACTOR TO COORDINATE CABLE TRAY LOCATION WITH MECHANICAL DUCT WORK AND PIPING TO MINIMIZE EFFECT OF EMI, WHEN PROVIDING PATHWAYS AND INFRASTRUCTURE FOR TELECOMMUNICATIONS CABLING. ELECTRICAL CONTRACTOR AND TELECOMM CONTRACTOR SHOULD MAINTAIN THE FOLLOWING MINIMUM DISTANCES: 5" FROM POWER LINES OF 2 KVA OR LESS 12" FROM HIGH VOLTAGE LIGHTING (INCLUDING FLUORESCENT LIGHTING) 36" FROM POWER LINES 2 KVA OR GREATER 40" FROM TRANSFORMERS AND MOTORS.	

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ABBREVIATIONS			
(THIS LIST OF ABBREVIATIONS DOES NOT APPLY TO ANY LETTERS USED IN CONJUNCTION WITH SYMBOLS)			
A	- AMPS	ISP	- INTERNET SERVICE PROVIDER
AC	- ALTERNATING CURRENT	JBOX	- JUNCTION BOX
ADJ	- ADJACENT	LEC	- LOCAL EXCHANGE CARRIER
AFF	- ABOVE FINISHED FLOOR	L.S.	- LOUDBREAKER
AFG	- ABOVE FINISHED GRADE	L.T.G.	- LIGHTING
AIR COND	- AIR CONDITIONING	MA	- MILLIAMPS
ARCH	- ARCHITECTURAL	MAX	- MAXIMUM
ASYM	- ASYMMETRICAL	MDP	- MAIN DISTRIBUTION FRAME
AUTO	- AUTOMATIC	MECH	- MECHANICAL
AV	- AUDIOVISUAL	MEP	- MECHANICAL/ELECTRICAL/PLUMBING
AVG	- AVERAGE	MIC	- MICROPHONE
AWG	- AMERICAN WIRE GAUGE	MIN	- MINIMUM
BL	- BLANK	MISC	- MISCELLANEOUS
CM	- BUILDING	MTD	- MOUNTED
C	- CENTER LINE	NA	- NOT APPLICABLE
CAT	- CATEGORY	NEC	- NATIONAL ELECTRIC CODE
CATV	- CABLE TELEVISION	NEMA	- NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
CCTV	- CLOSED CIRCUIT TELEVISION	NL	- ON NIGHT LIGHTING CIRCUIT
CKT	- CIRCUIT	No	- NUMBER
CLG	- CEILING	NTS	- NOT TO SCALE
CLDS	- CLOSET	OD	- OUTSIDE DIAMETER
CM	- CIRCULAR MIL	PB	- PULL BOX
CDAX	- CDAXIAL CABLE	PBX	- PRIVATE BRANCH EXCHANGE
COL	- COLUMN	PCU	- POWER CONDITIONING UNIT
CDNC	- CONCRETE	PDU	- POWER DISTRIBUTION UNIT
CONC	- CONDUIT	PG	- PAGING
CONST	- CONSTRUCTION	PH	- PHASE
CDNT	- CONTINUOUS	PLB	- PLUMBING
CDNV	- CONVENIENCE	PNL	- PANEL
CU	- COPPER	PWR	- POWER
DC	- DIRECT CURRENT	RECP	- RECEPTACLE
DIA	- DIAMETER	REQ	- REQUIRED
DN	- DOWN	RM	- ROOM
DTL	- DETAIL	RMS	- RACK MOUNT SPACES
DWG	- DRAWING	S	- SOUND
EA	- EACH	SEC	- SECURITY
EC	- EMPTY CONDUIT	SEP	- SEPARATE
EC	- ELECTRICAL CONTRACTOR	SO	- SOUTH
EF	- ENTRANCE FACILITY	SPCS	- SPECIFICATIONS
EIA/TIA	- ELECTRONIC INDUSTRIES ASSOCIATION/TELECOMMUNICATIONS INDUSTRIES ASSO.	SPKLR	- SPRINKLER
ELEV	- ELEVATION	SPKR	- SPEAKER
ELC	- ELECTRIC	SYM	- SYMMETRICAL
ELEV	- ELEVATOR	STD	- STANDARD
EM	- DN EMERGENCY CIRCUIT	STP	- SHIELDED TWISTED PAIR
EQ	- EQUAL	SURF	- SURFACE
EQUIP	- EQUIPMENT	SYN	- SYMMETRICAL
EXIST	- EXISTING	TEL	- TELEPHONE
F	- FLOOR	TERM	- TERMINATION
FA	- FIRE ALARM	TELCD	- TELEPHONE CD.
FIN	- FINISH	TV	- TELEVISION
F.D	- FIBER OPTIC	TYP	- TYPICAL
FT	- FEET	UFD	- UNDER FLOOR DUCT
GA	- GAUGE	UNO	- UNLESS OTHERWISE NOTED
GC	- GENERAL CONTRACTOR	UPS	- UNINTERRUPTIBLE POWER SUPPLY
GD	- GROUND	UTP	- UNSHIELDED TWISTED PAIR
HC	- HUNG CEILING	V	- VOLTS
HGT	- HEIGHT	VA	- VOLT AMPERES
HOR	- HORIZONTAL	VENT	- VENTILATING
HTG	- HEATING	VERT	- VERTICAL
HVAC	- HEATING VENTILATING	V	- VOLTS
I.D.	- INSIDE DIAMETER	V/V	- WITH
ID	- IDENTIFICATION	W/O	- WITHOUT
IDF	- INTERMEDIATE DISTRIBUTION FRAME	WE	- WEST
IN	- INCHES	WKSTA	- WORKSTATION
INT	- INTERCOM	YD	- YARD

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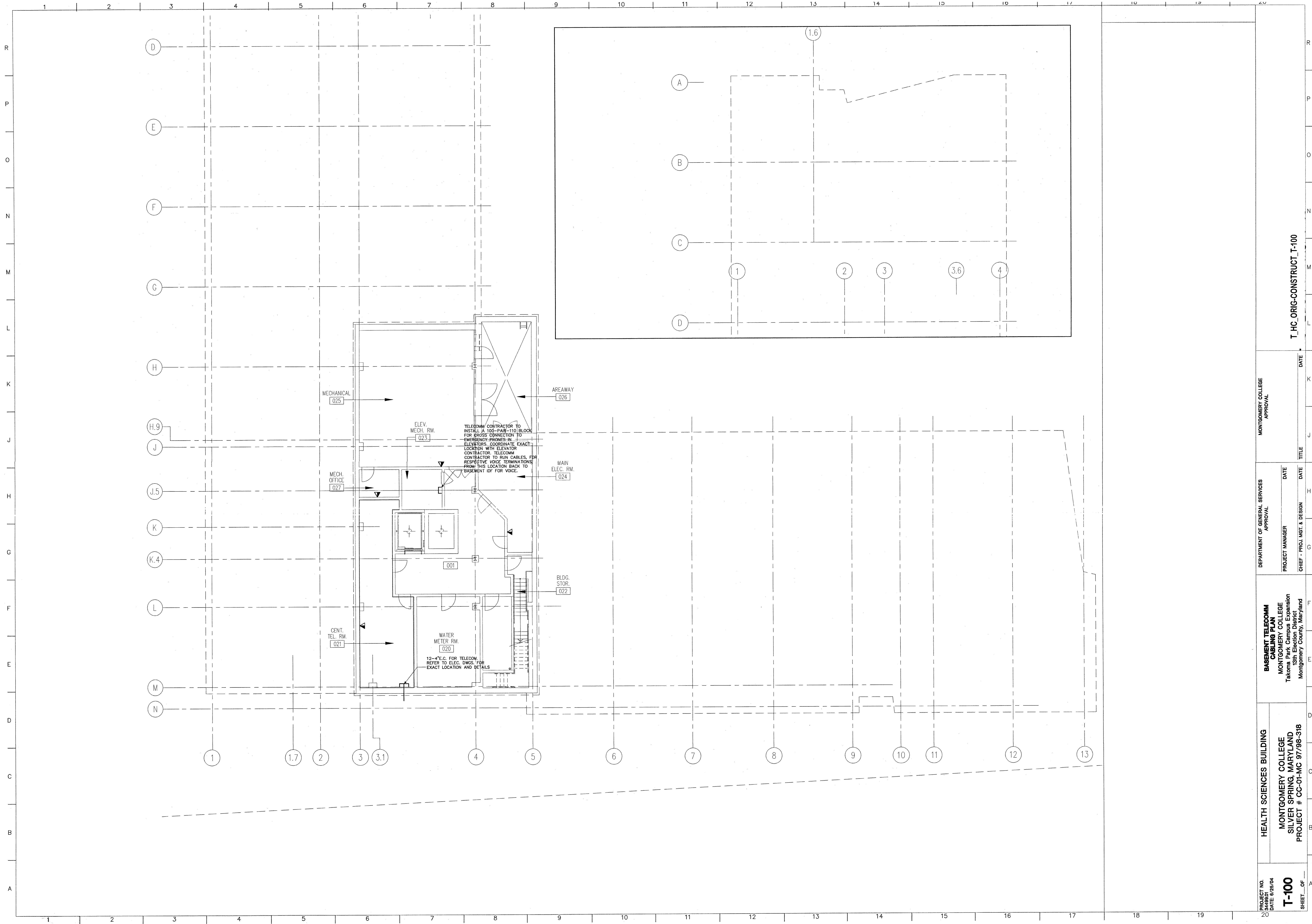
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DRAWING LIST			
DRAWING NAME	DWG No	DATE	STATUS
1 GENERAL INFORMATION SHEET	T001	10/19/01	ISSUED
2 BASEMENT TELECOMM CABLING PLAN	T100		ISSUED
3 FIRST FLOOR TELECOMM CABLING PLAN	T101		ISSUED
4 SECOND FLOOR TELECOMM CABLING PLAN	T102		ISSUED
5 THIRD FLOOR TELECOMM CABLING PLAN	T103		ISSUED
6 FOURTH FLOOR TELECOMM CABLING PLAN	T104		ISSUED
7 MDF ROOM PART PLANS	T201		ISSUED
8 TELECOMM CLOSET PART PLANS	T202		ISSUED
9 TELECOMM RIF/DF RACK AND WALL-FIELD ELEVATIONS	T203		ISSUED
10 TELECOMM RISER AND GROUNDING DIAGRAM	T301		ISSUED
11 TELECOMM OUTLET DETAILS	T401		ISSUED
12 MISCELLANEOUS DETAILS	T402		ISSUED
13 GROUNDING AND MISCELLANEOUS DETAILS	T403		ISSUED
14 CABLE TRAY SPECIFICATIONS	T501		ISSUED



TELECOMM CONTRACTOR TO INSTALL A 100-PAIR-110 BLOCK FOR GROSS CONNECTION TO EMERGENCY PHONES IN ELEVATORS. COORDINATE EXACT LOCATION WITH ELEVATOR CONTRACTOR. TELECOMM CONTRACTOR TO RUN CABLES, FOR RESPECTIVE VOICE TERMINATIONS FROM THIS LOCATION BACK TO BASEMENT IDF FOR VOICE.

12-#12C. FOR TELECOM. REFER TO ELEC. DWGS. FOR EXACT LOCATION AND DETAILS.

PROJECT NO. T-100  
DATE: 8/26/04  
SHEET OF

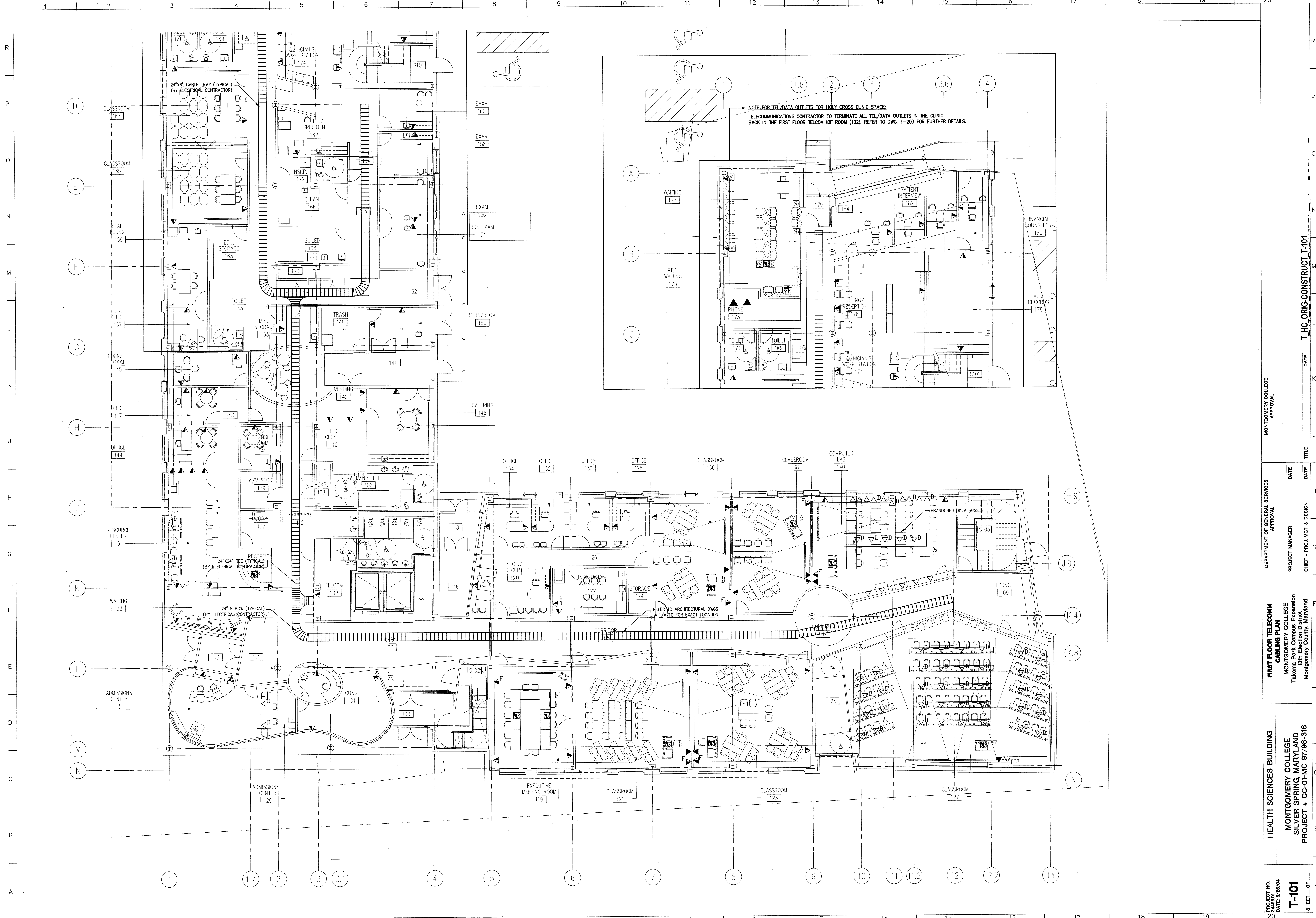
HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC 97/98-318

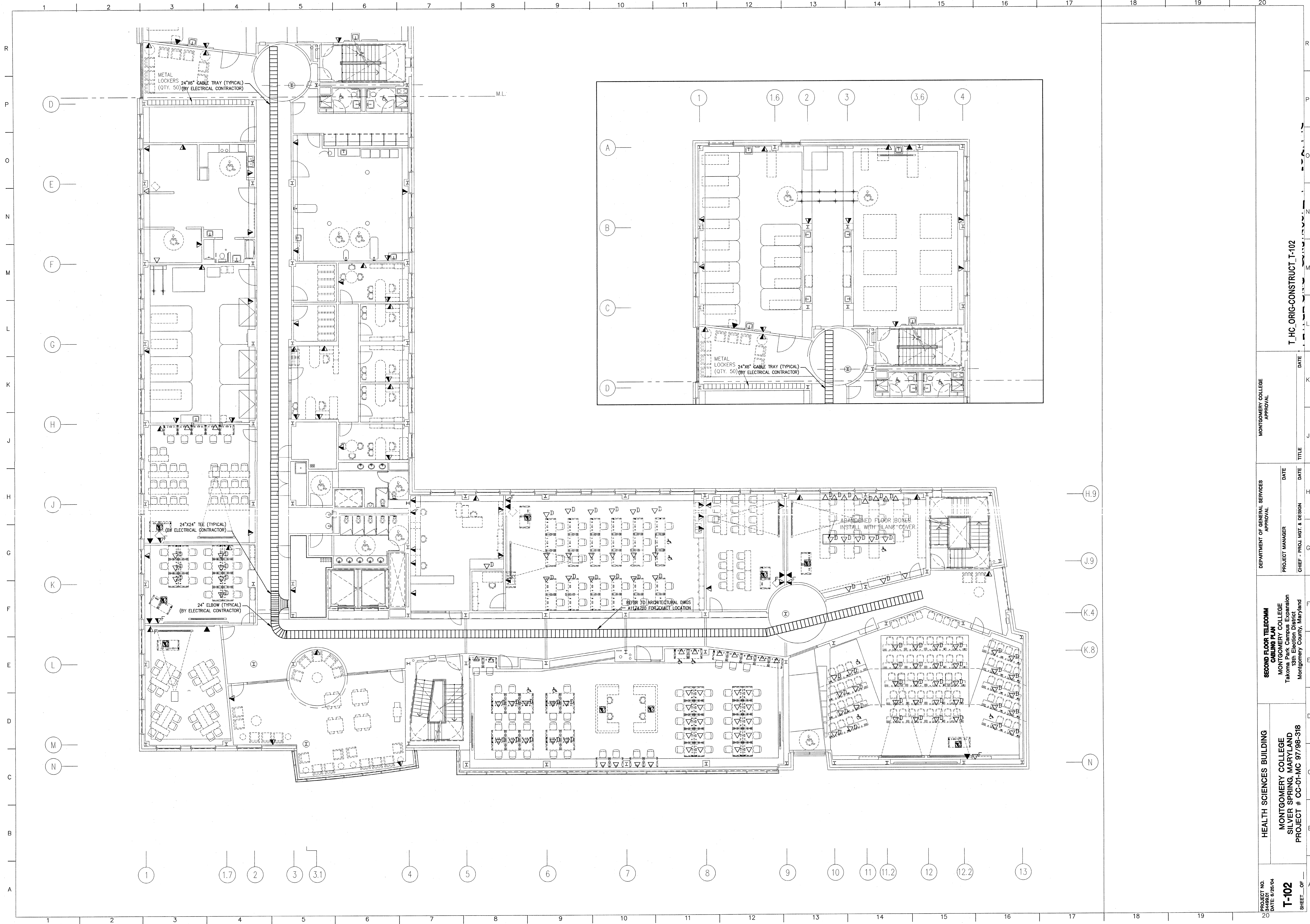
BASMENT TELECOMM CABLING PLAN  
MONTGOMERY COLLEGE  
Takompa Park Center Expansion  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL  
PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
APPROVAL  
TITLE  
DATE

T\_HC\_ORIG-CONSTRUCT\_T-100





PROJECT NO. 3449901  
 DATE: 6/26/04  
**T-102**  
 SHEET OF

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

SECOND FLOOR TELEROOM  
 CABLING PLAN  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 Montgomery County, Maryland

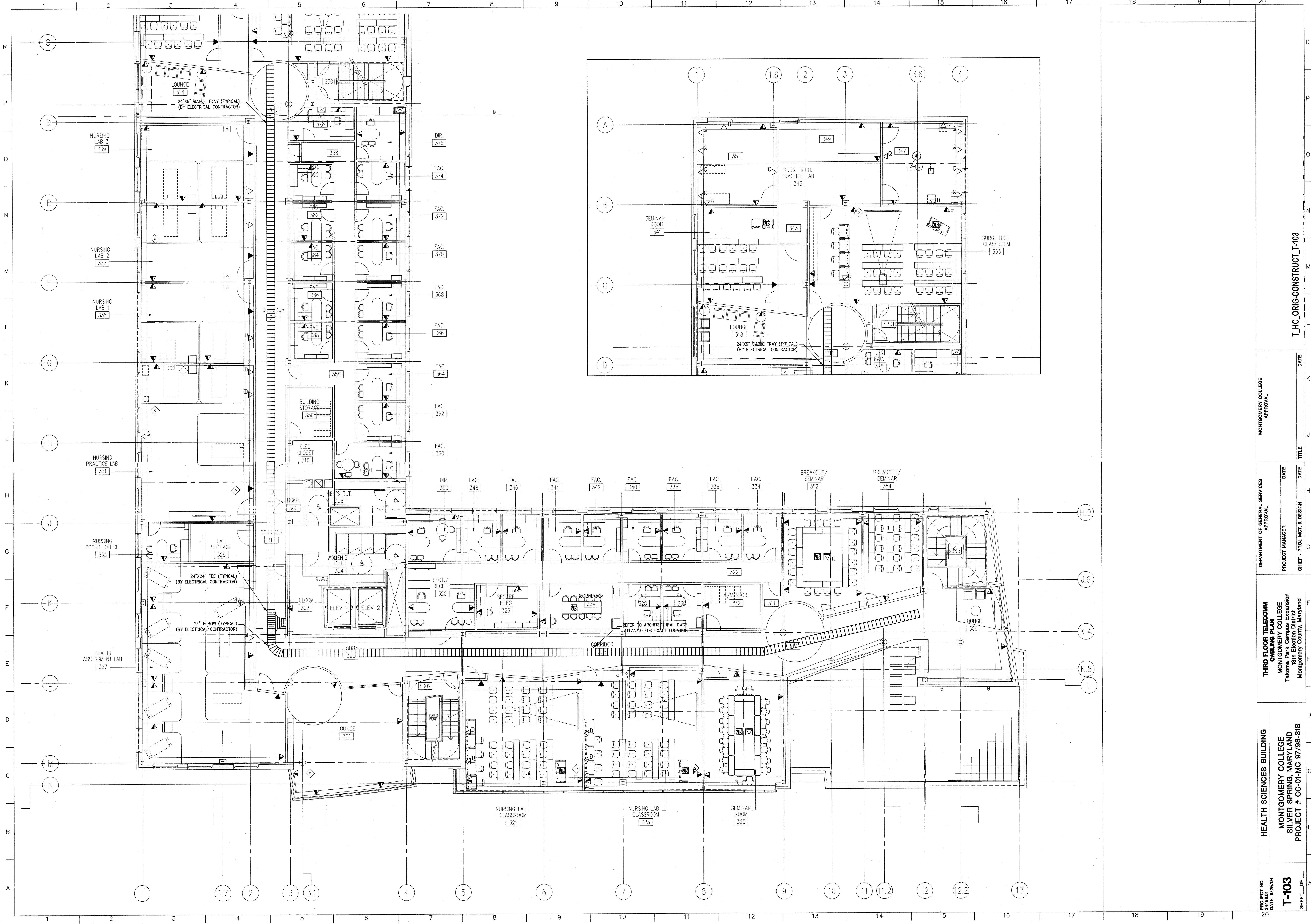
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 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

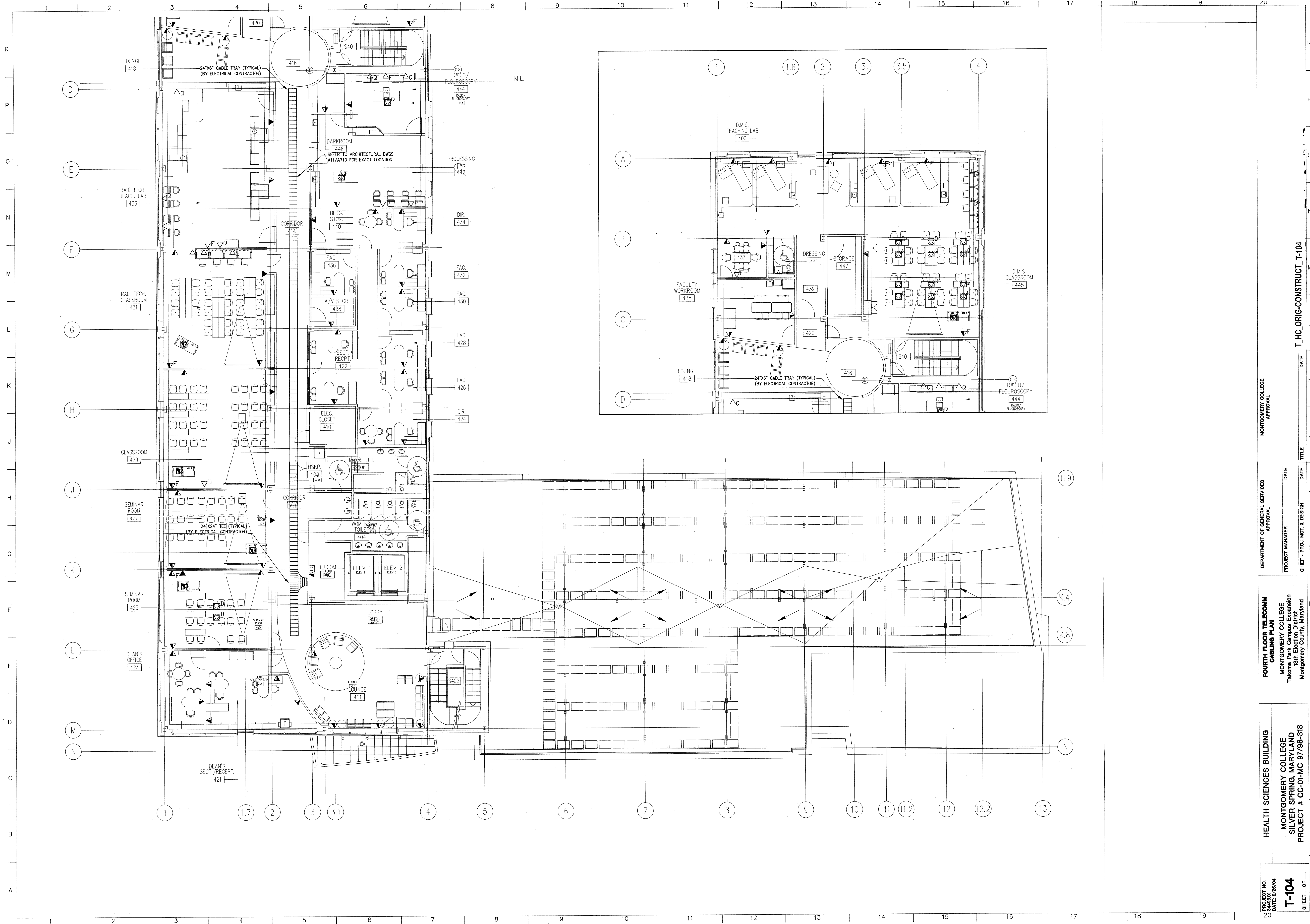
MONTGOMERY COLLEGE  
 APPROVAL

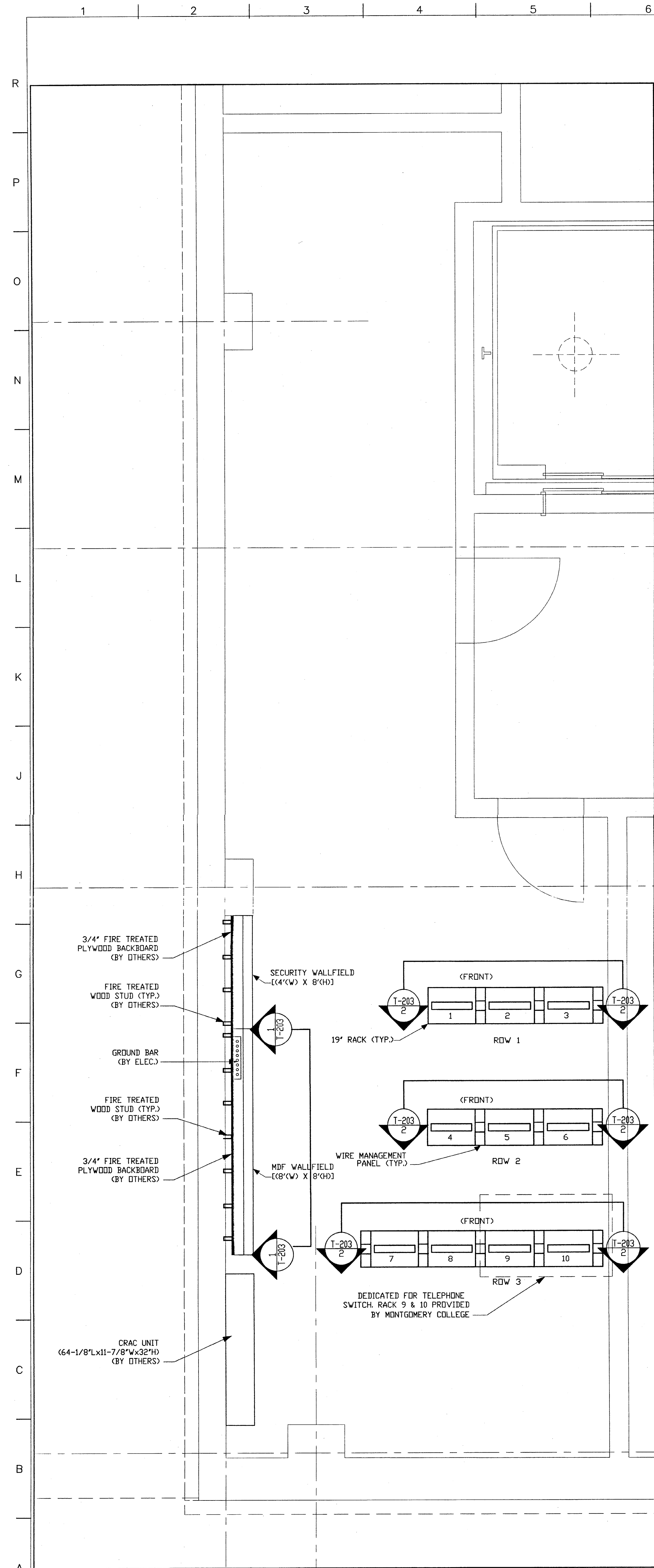
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DATE TITLE DATE DATE

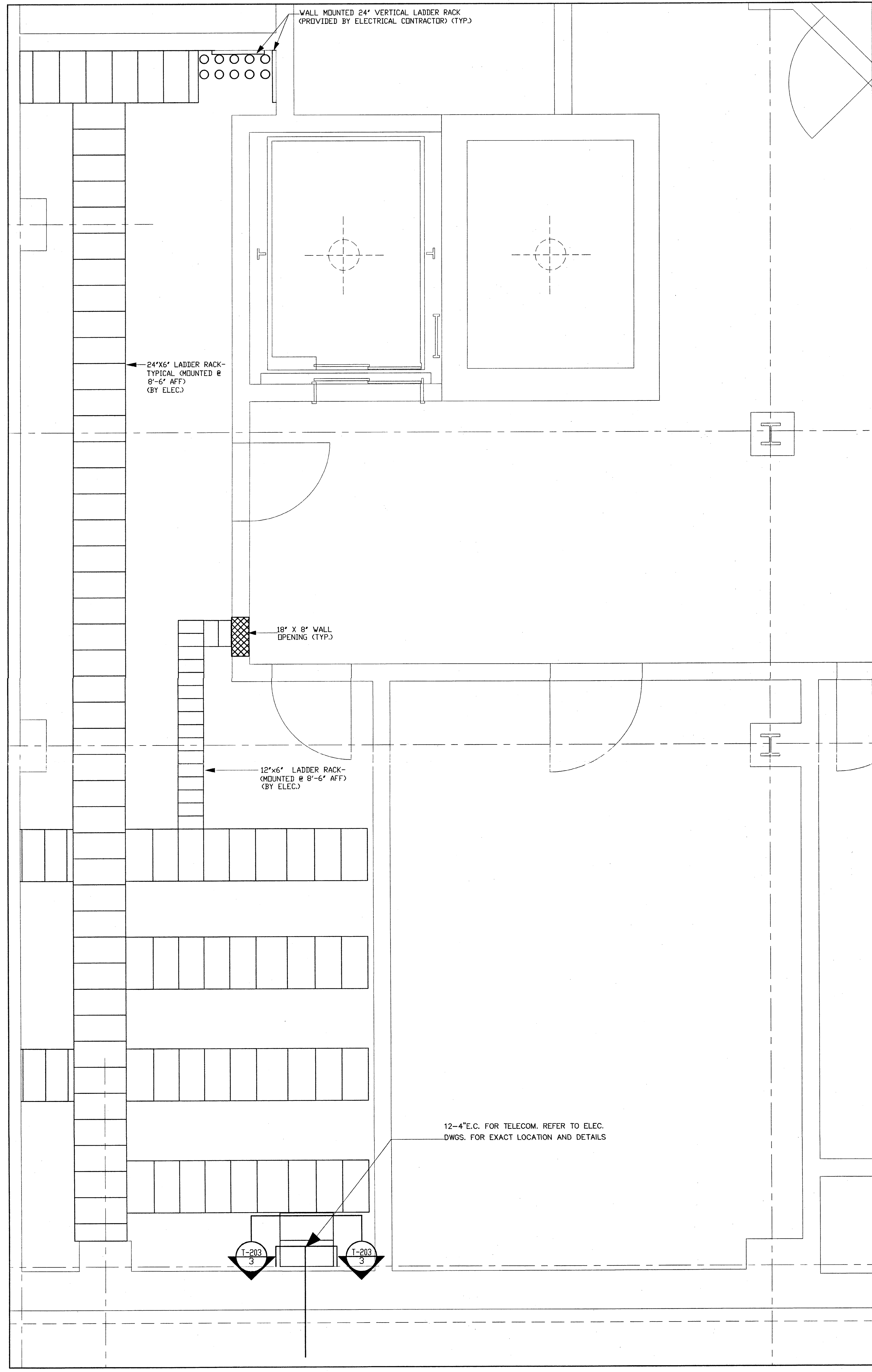








1 MDF ROOM EQUIPMENT LAYOUT (BASEMENT)  
SCALE: 1/2" = 1'-0"



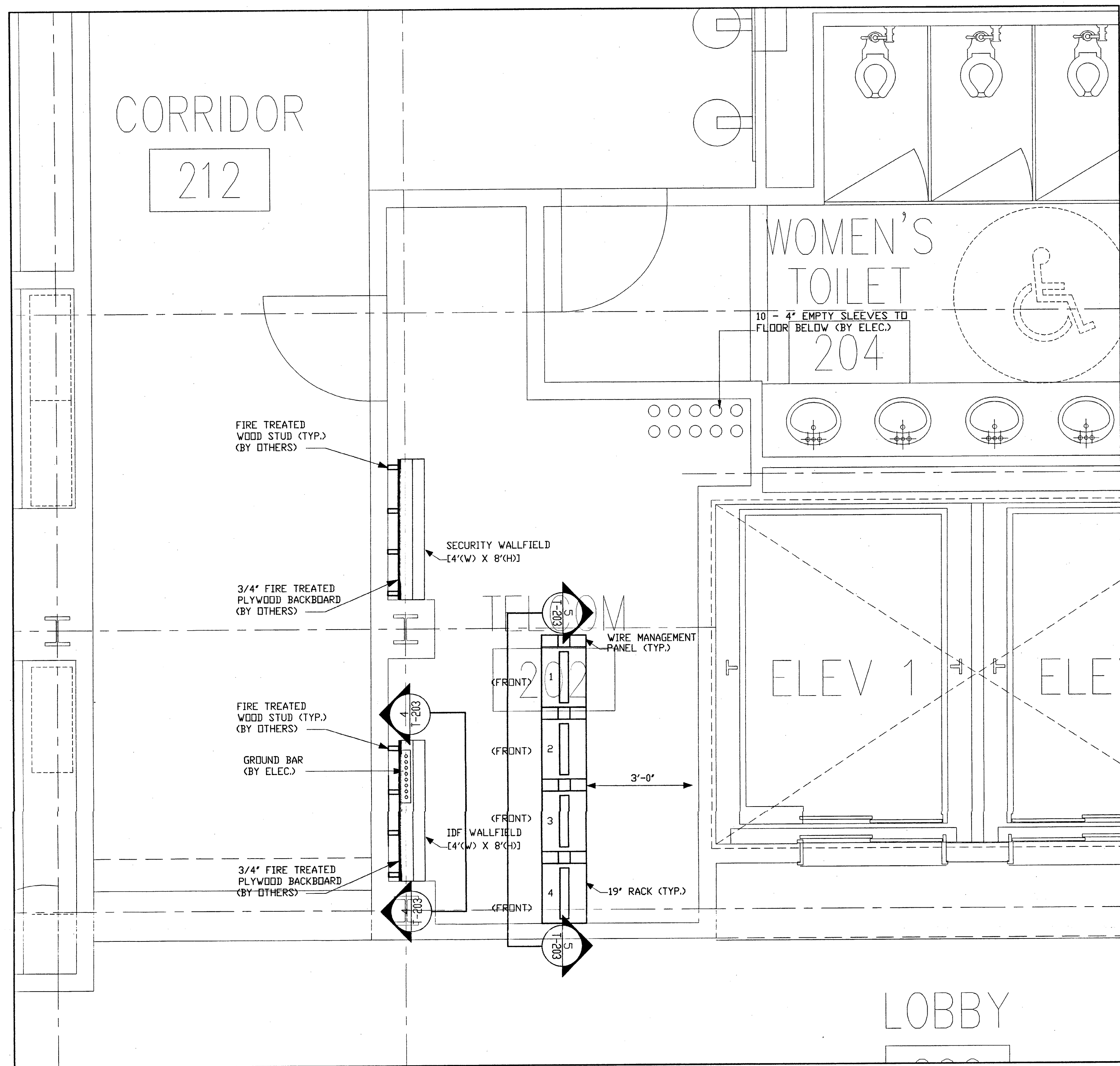
2 MDF ROOM REFLECTED CEILING PLAN (BASEMENT)  
SCALE: 1/2" = 1'-0"

NOTES:

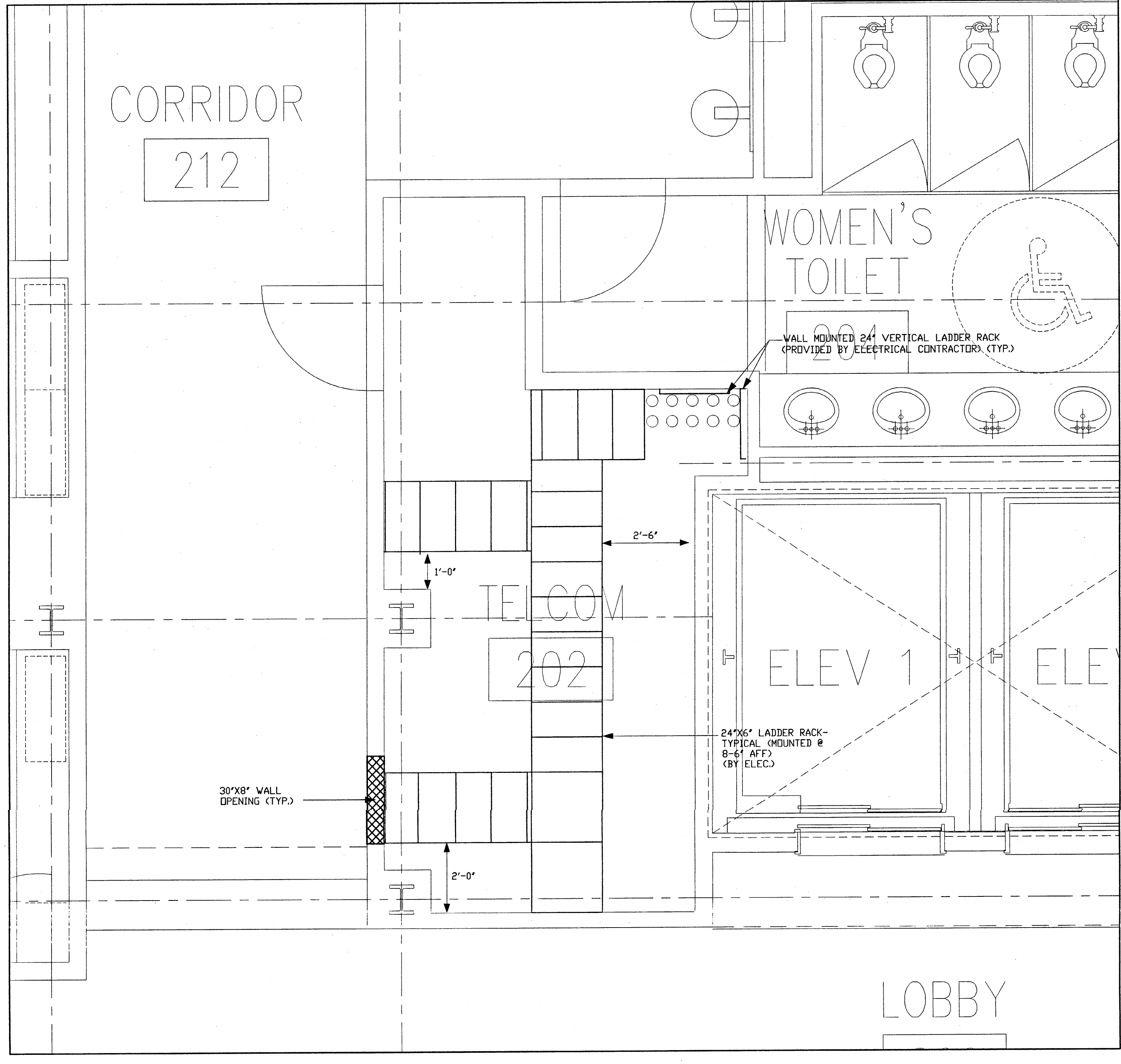
1. PROVIDE A DEDICATED 208V, 30-AMP CIRCUIT PER RACK. TERMINATE IN A 16-30 RECEPTACLE (BY ELEC.)
2. PROVIDE (4) 110V, 20AMP DEDICATED CIRCUITS, EACH WITH A QUAD RECEPTACLE, TWO ON WALLFIELD, TWO ON WALLSPACE ADJACENT TO IT. COORDINATE EXACT LOCATION WITH THE ARCHITECT AND THE TELECOMM CONTRACTOR (BY ELEC.)
3. PROVIDE A 6" GROUND BAR BONDED TO BUILDING STEEL (BY ELEC.)
4. ELECTRICAL CONTRACTOR TO COORDINATE LADDER RACK SUPPORT SYSTEM AND KINDORF FRAMING LOCATION WITH TELECOMM CONTRACTOR.
5. ALL LADDER RACK AND KINDORF FRAMING IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
6. ALL ELECTRICAL RECEPTACLES, GROUND BARS, LIGHTING FIXTURES AND SLEEVES/CONDUITS ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
7. FRAMED OPENING 18"X8" CLEAR. COORDINATE WITH OUTSIDE CABLE TRAY LOCATION.
8. REFER TO ELECTRICAL DRAWINGS FOR EXACT ROUTING AND LOCATION OF ALL CONDUITS/SLEEVES AND ASSOCIATED DETAILS.
9. ELECTRICAL CONTRACTOR TO PROVIDE THE FOLLOWING FOR THE COLLEGE TELEPHONE SWITCH.
  - 1) DEDICATED 208V 30AMP, SINGLE PHASE CIRCUIT IN A FUSED DISCONNECT BOX. FROM THE DISCONNECT BOX A LENGTH OF LIQUITTE WITH A 90 DEGREE CONNECTOR ON THE END WITH 10 GAUGE WIRE IN IT TO CONNECT TO THE RECEPTER.
  - 2) AN ISOLATED GROUND UTILIZING A #6 GAUGE WIRE IS REQUIRED.
  - 3) THE DISCONNECT BOX IS TO BE MOUNTED ON THE WALL AT A HEIGHT OF 4 FEET.
  - 4) (2) STANDARD 110V 20AMP QUAD RECEPTACLES ARE REQUIRED FOR POWER OF THE SWITCH CONSOLE WORKSTATION AND ATTACHED PRINTER.
  - 5) ELECTRICAL CONTRACTOR TO COORDINATE EXACT LOCATIONS WITH THE ARCHITECT AND THE OWNER.

T\_HC\_ORIG-CONSTRUCT\_I-201

MONTGOMERY COLLEGE APPROVAL	DATE
DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE
MDF ROOM PART PLANS MONTGOMERY COLLEGE Takoma Park Campus Expansion Montgomery County, Maryland	DATE
HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC 97/98-318	DATE
PROJECT NO. 8449901	DATE: 6/26/04
T-201	SHEET OF



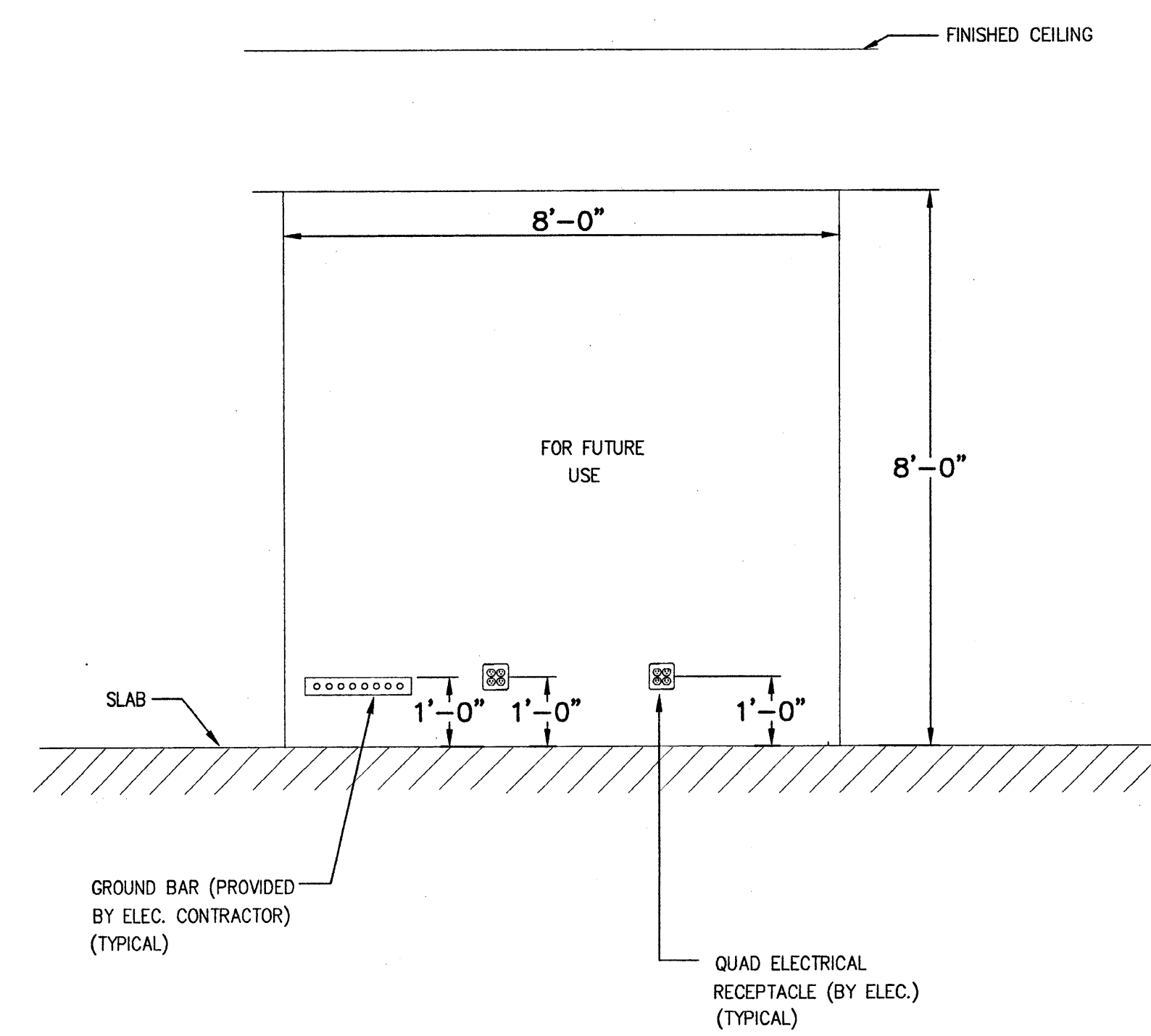
1 IDF CLOSET EQUIPMENT LAYOUT (TYP. FOR FLRS. 1-4)  
SCALE: 1/2" = 1'-0"



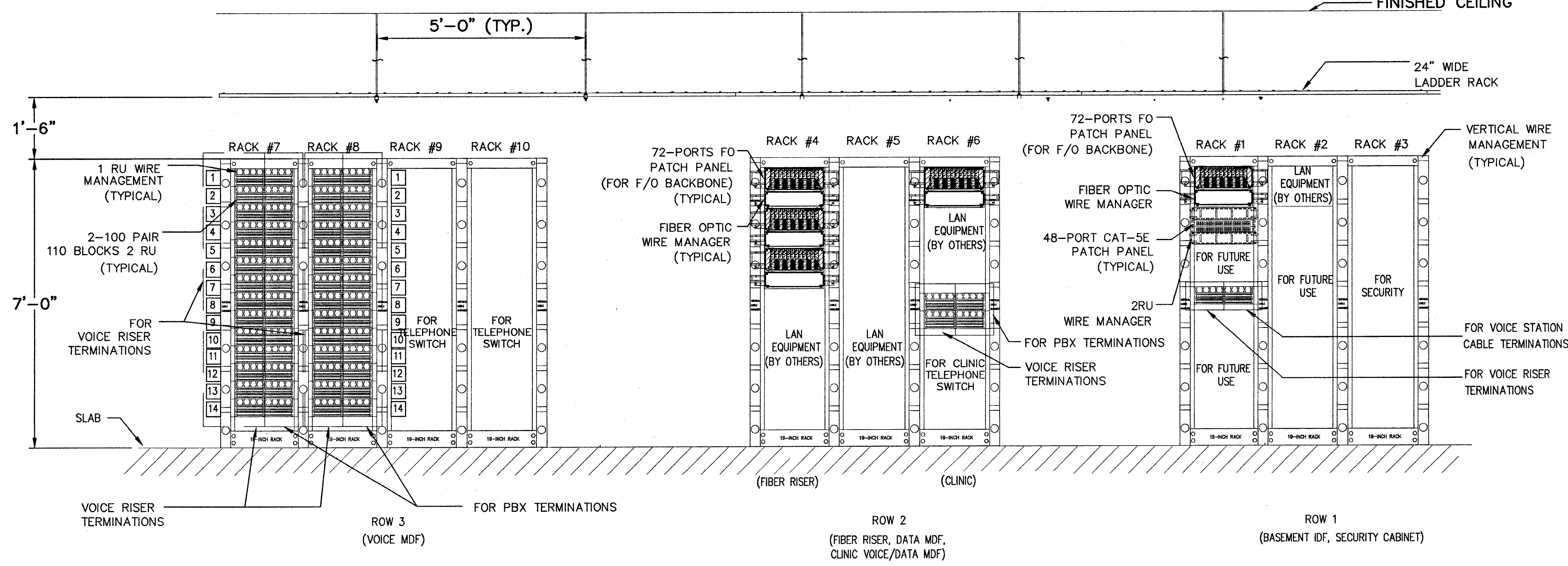
2 IDF CLOSET REFLECTED CEILING PLAN (TYP. FOR FLRS. 1-4)  
SCALE: 1/2" = 1'-0"

- NOTES:**
1. PROVIDE A DEDICATED 208V, 30-AMP CIRCUIT PER RACK. TERMINATE IN A L6-30 RECEPTACLE (BY ELEC.)
  2. PROVIDE (2) 110V, 20AMP DEDICATED CIRCUITS, EACH WITH A QUAD RECEPTACLE, ONE ON THE IDF WALLFIELD, ONE ON THE WALL SPACE ADJACENT TO IT, COORDINATE EXACT LOCATION WITH THE ARCHITECT AND THE TELECOMM CONTRACTOR (BY ELEC.)
  3. PROVIDE A 6" GROUND BAR BONDED TO BUILDING STEEL (BY ELEC.)
  4. ELECTRICAL CONTRACTOR TO COORDINATE LADDER RACK SUPPORT SYSTEM AND KINDORF FRAMING LOCATION WITH TELECOMM CONTRACTOR.
  5. ALL LADDER RACK AND KINDORF FRAMING IS TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
  6. ALL ELECTRICAL RECEPTACLES, GROUND BARS, LIGHTING FIXTURES AND SLEEVES/CONDUITS ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
  7. FRAMED OPENING 30"x6" CLEAR. COORDINATE WITH OUTSIDE CABLE TRAY LOCATION.
  8. REFER TO ELECTRICAL DRAWINGS FOR EXACT ROUTING AND LOCATION OF ALL CONDUITS/SLEEVES AND ASSOCIATED DETAILS.

PROJECT NO. T-202  
 DATE: 6/26/04  
 SHEET OF 1  
 HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318  
 TELECOMM CLOSET  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN  
 MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 DATE  
 DATE  
 TITLE  
 T\_HC\_ORIG-CONSTRUCT T-202

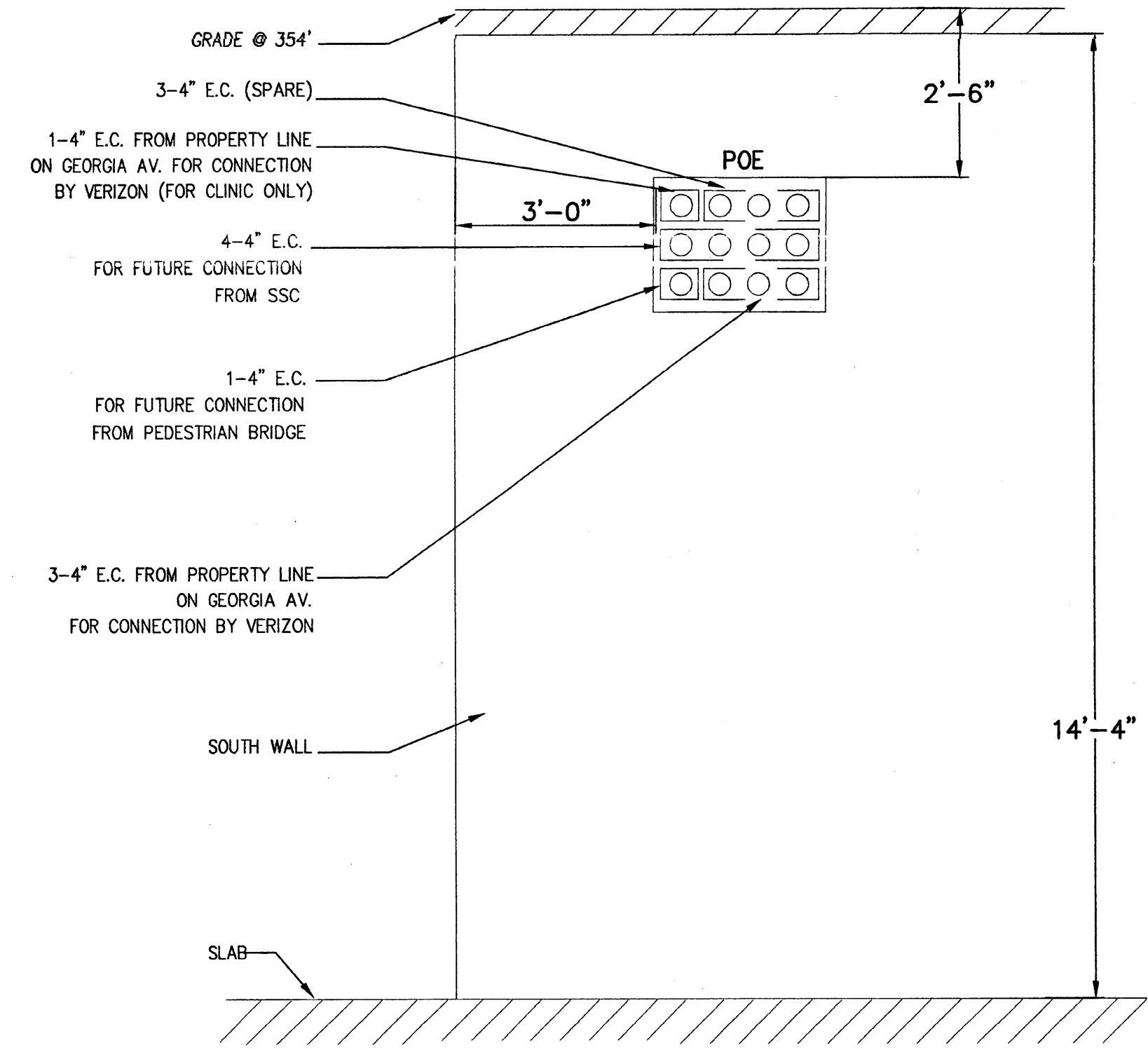


**1** MDF ROOM (BASEMENT) "MDF" WALLFIELD ELEVATION  
SCALE: NTS



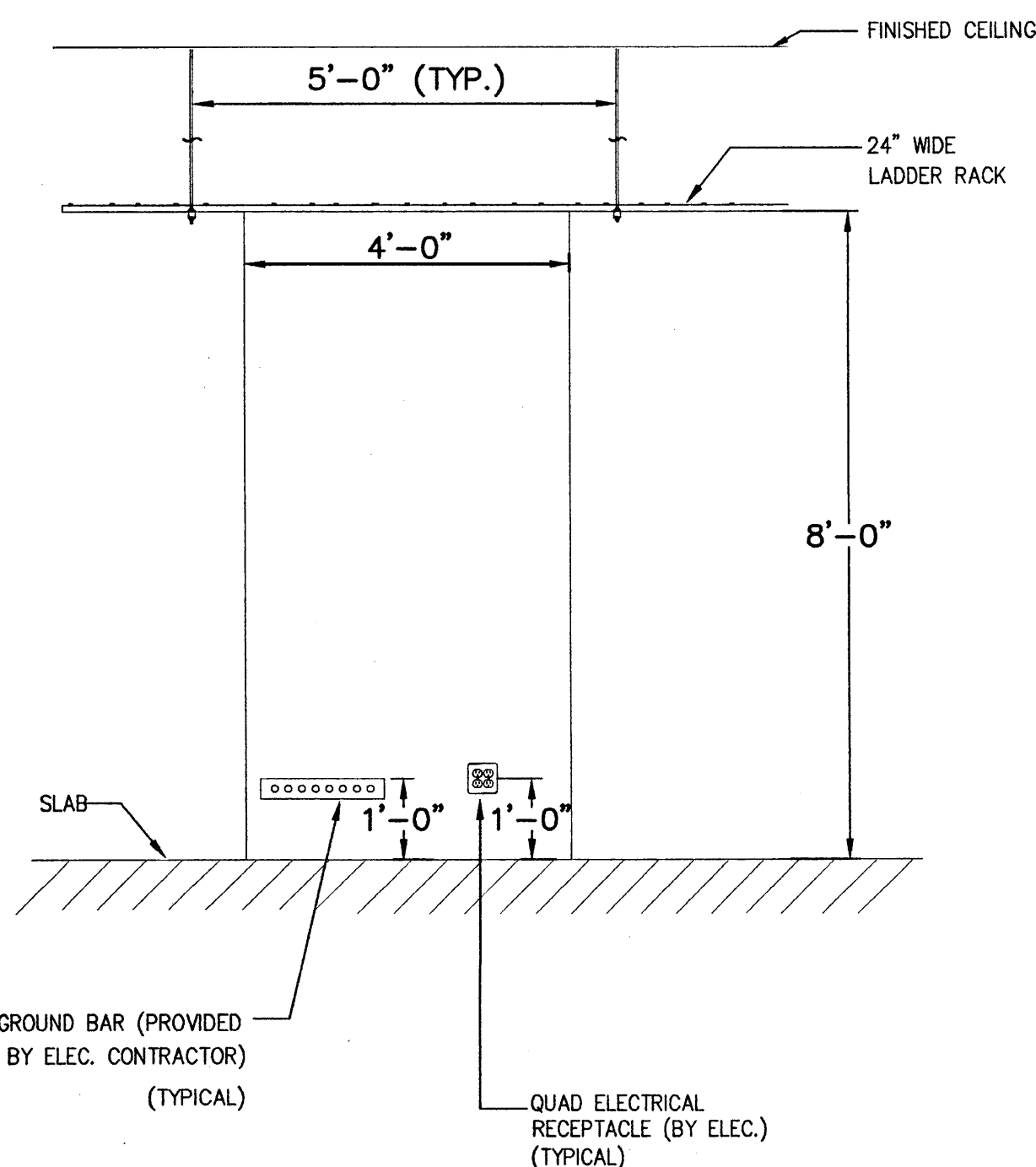
NOTE:  
1. DESIGNATE AND UTILIZE A 110 BLOCK FOR EMERGENCY PHONE (EP) TERMINATIONS IN THE VOICE RISER. TELECOMMUNICATIONS CONTRACTOR WILL BE RESPONSIBLE FOR MAKING TERMINATIONS FOR EP'S (OUTDOORS) IN THE VOICE MDF. BASEMENT EP'S WILL BE TERMINATED BY THE TELECOMM CONTRACTOR IN THE BASEMENT IDF FOR VOICE (WITH PROPER DESIGNATION). REFER TO SECURITY DRAWINGS (SE-XXX SERIES) FOR QUANTITY AND LOCATION OF EP'S.

**2** MDF ROOM RACK ELEVATION  
SCALE: NTS

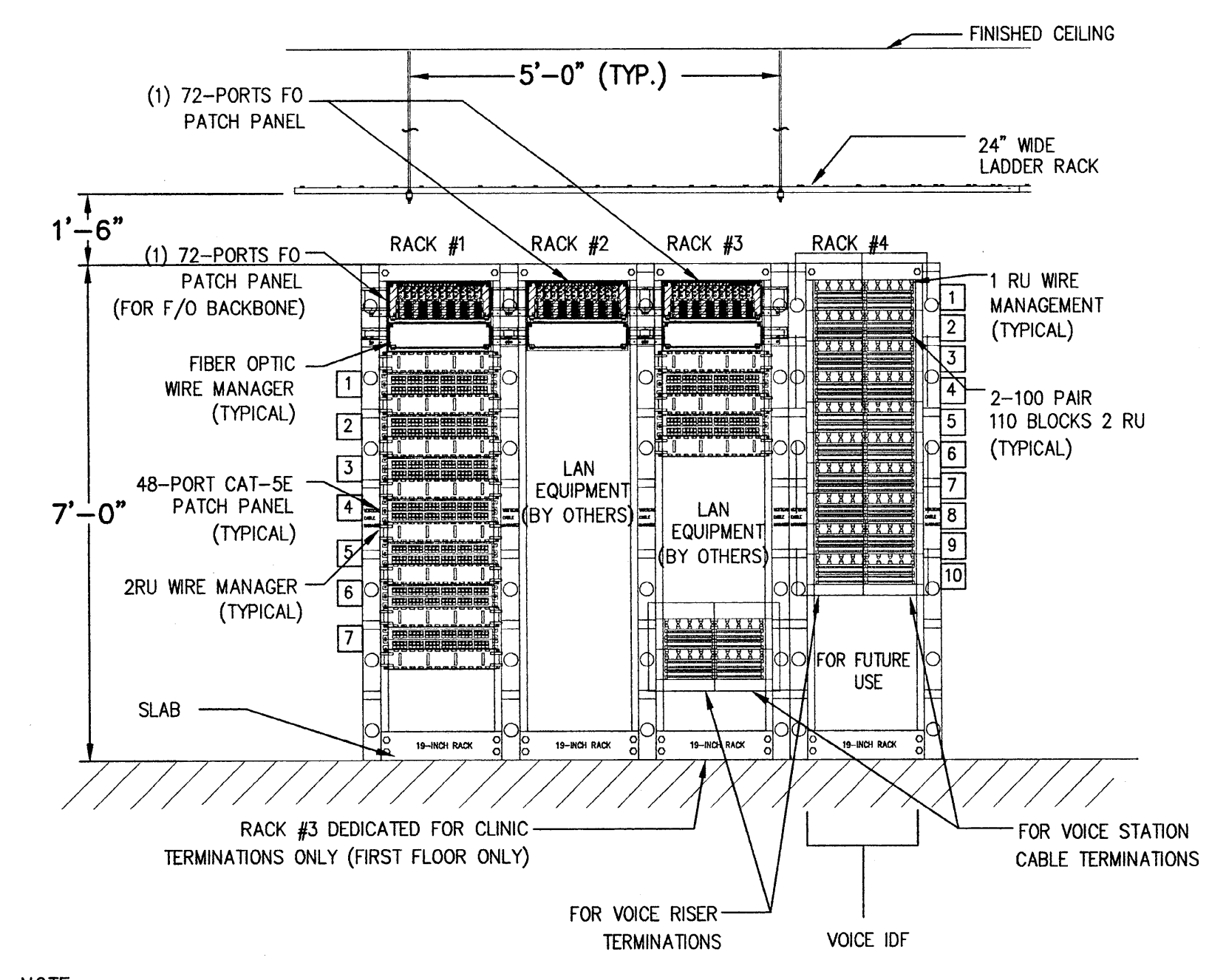


NOTE:  
1. ALL CONDUITS PROVIDED BY ELECTRICAL  
2. REFER TO ELECTRICAL DWGS. FOR FUTURE INFORMATION

**3** MDF ROOM (BASEMENT) POE ELEVATION  
SCALE: NTS



**4** TELECOMM (IDF) ROOM "IDF WALLFIELD" ELEVATION (TYP. FOR FLOORS 1-4)  
SCALE: NTS



NOTE:  
1. FOR THE FIRST FLOOR IDF ROOM, DESIGNATE AND UTILIZE RACK #3 FOR HOLY CROSS CLINIC TEL/DATA TERMINATIONS AND EQUIPMENT ONLY (AS SHOWN). RACK #3 IN FLOORS 2-4 IDF ROOMS IS DESIGNATED "FOR FUTURE USE".  
2. DESIGNATE AND UTILIZE A 110 BLOCK FOR EMERGENCY PHONE (EP) TERMINATIONS IN THE VOICE IDF. TELECOMM CONTRACTOR WILL BE RESPONSIBLE FOR MAKING TERMINATIONS FOR EP'S IN THE VOICE IDF (WITH PROPER DESIGNATION). REFER TO SECURITY DRAWINGS (SE-XXX SERIES) FOR QUANTITY AND LOCATION OF EP'S.

**5** TELECOMM (IDF) ROOM RACK ELEVATION (TYPICAL FOR FLOORS 1-4)  
SCALE: NTS

T\_HC\_ORIG-CONSTRUCT\_I-203

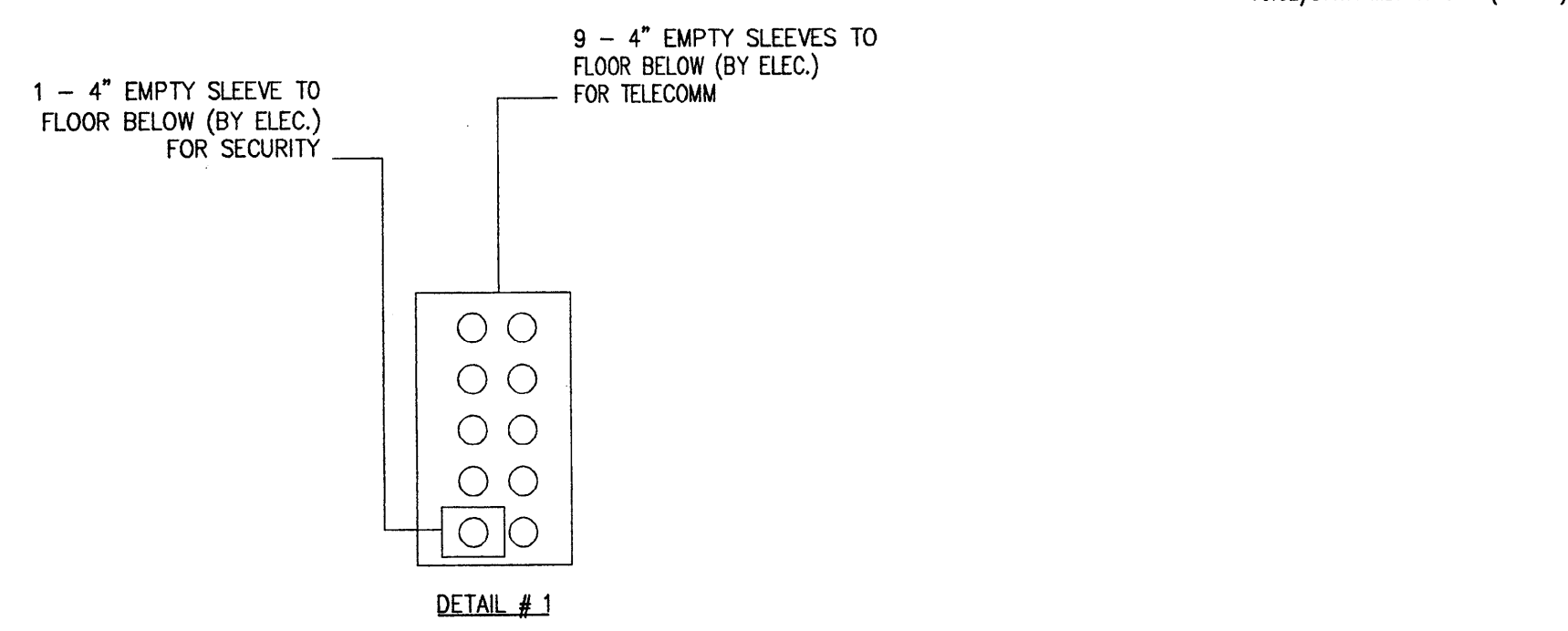
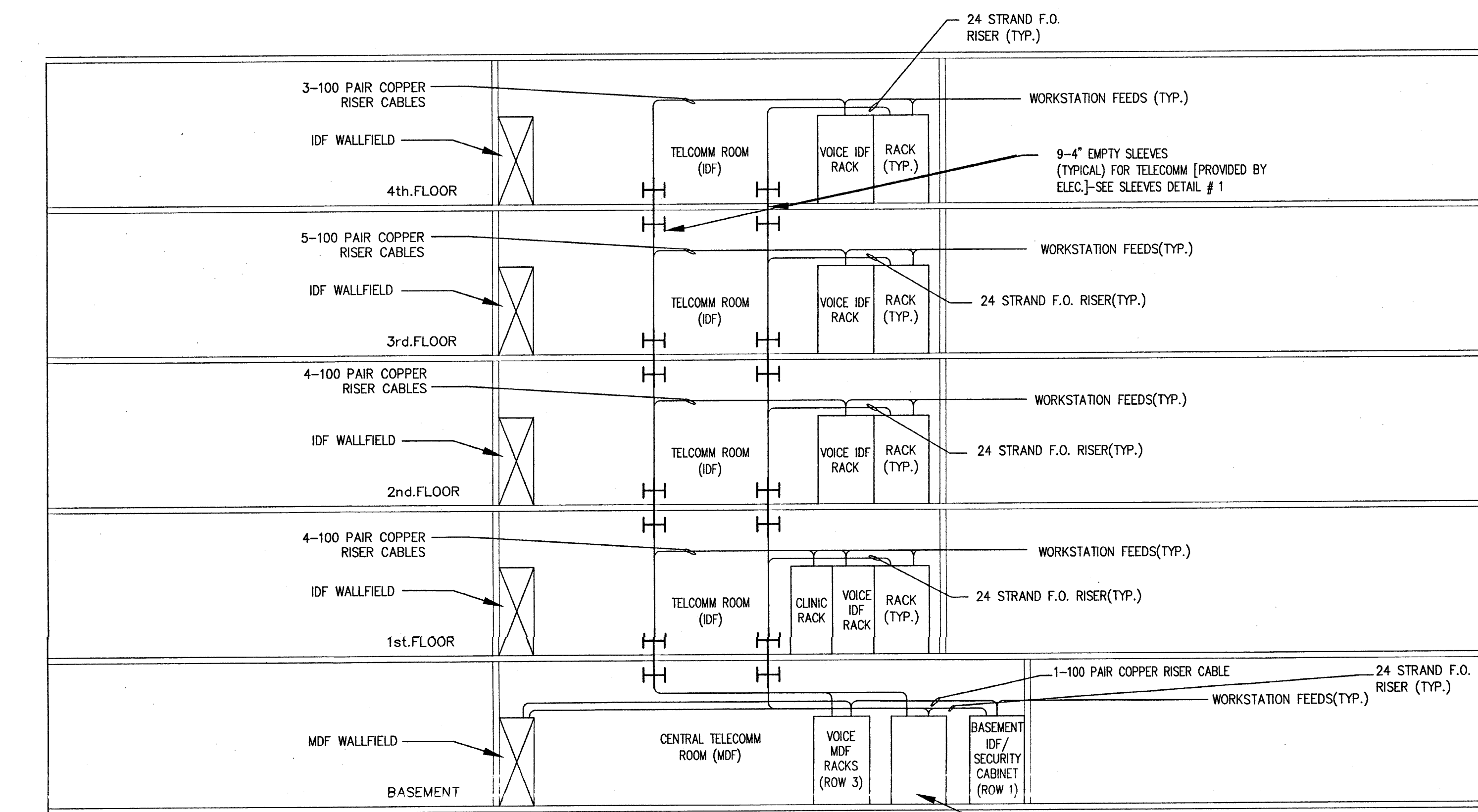
MONTGOMERY COLLEGE  
APPROVAL

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

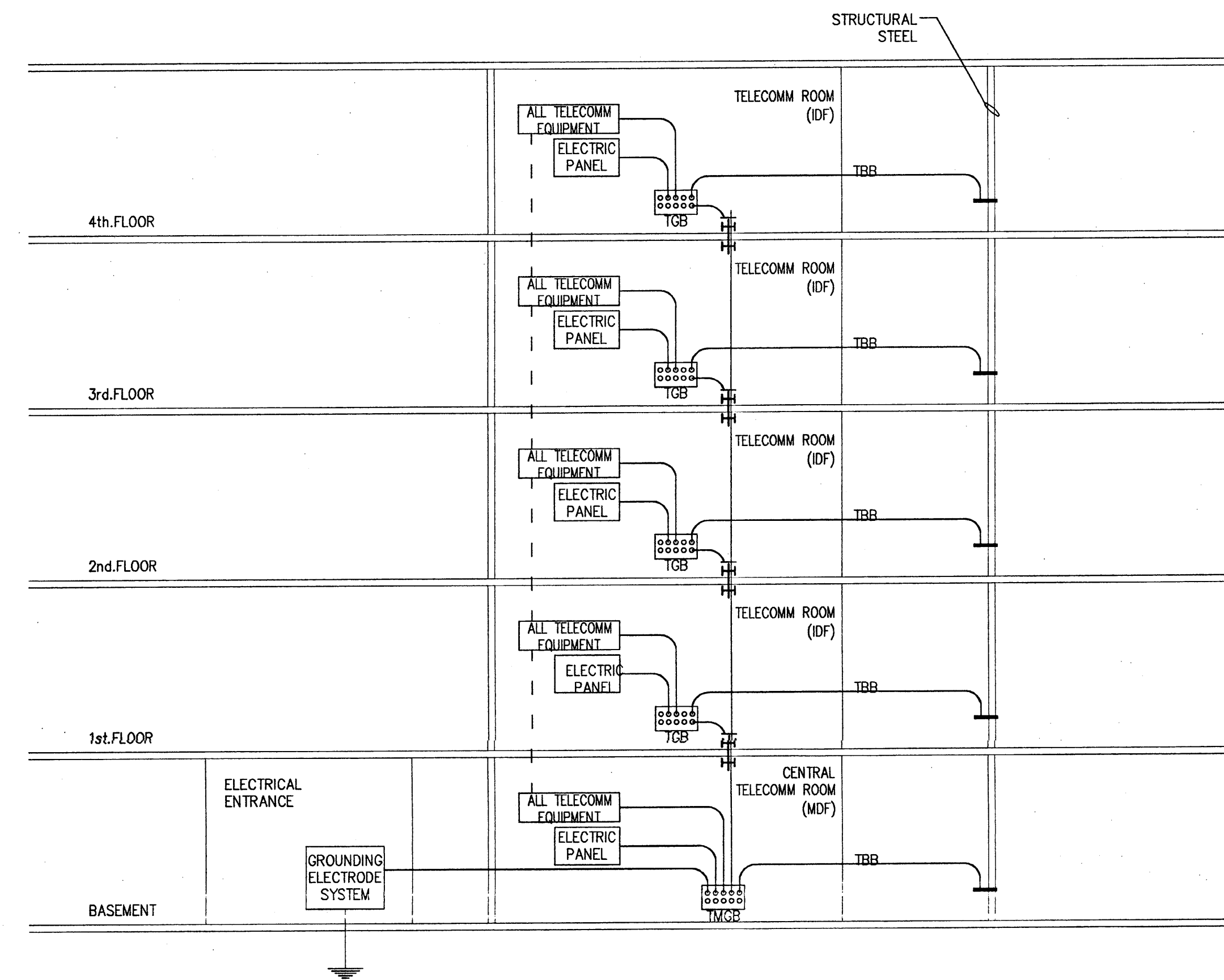
TELECOMM MDF/IDF  
RACK AND WALLFIELD ELEVATIONS  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC 97/98-318

PROJECT NO.  
DATE: 8/26/04  
**T-203**  
SHEET OF



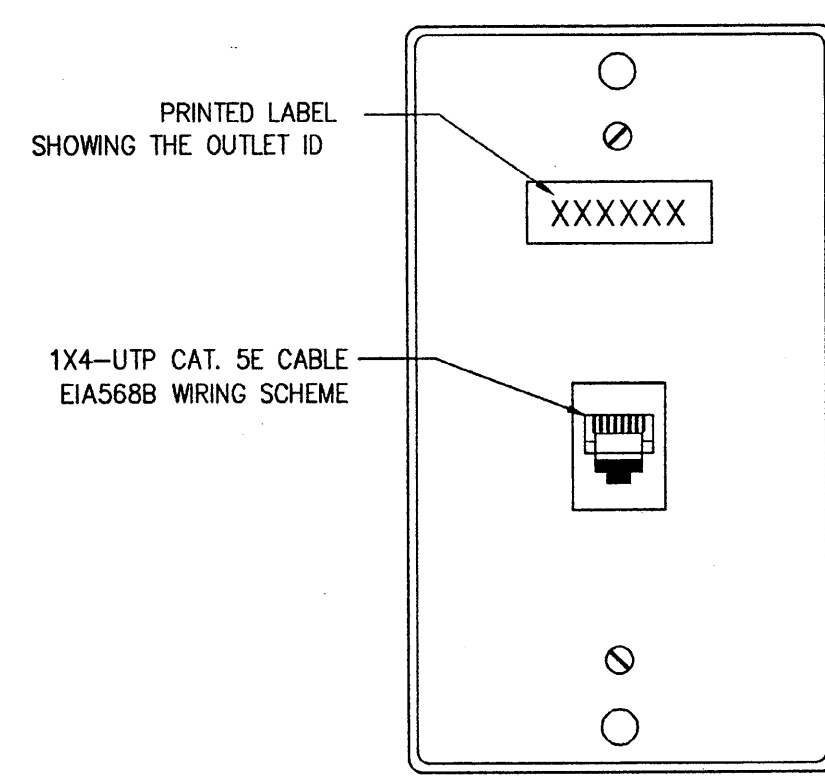
1 TELECOMM RISER DIAGRAM  
SCALE: NTS



NOTES:  
1. TELECOMMUNICATIONS EQUIPMENT, FRAMES, CABLE TRAY, CABINETS AND VOLTAGE PROTECTORS SHALL BE GROUNDED TO GROUNDING BUSBARS. BUSBARS SHALL BE CONNECTED BY A BACKBONE OF INSULATED, SOLID, COPPER CABLE BETWEEN ALL CLOSETS AND ROOMS (MINIMUM 6 AWG, 3/0 RECOMMENDED). THIS BACKBONE SHALL BE CONNECTED TO A MAIN GROUNDING BUSBAR IN THE TELECOMMUNICATIONS MDF, TO AN EARTH GROUND IN THE ELECTRICAL ENTRANCE FACILITY, AND TO STRUCTURAL/BUILDING STEEL ON EACH FLOOR. BONDING CONDUCTOR CABLING SHALL BE COLORED GREEN AND LABELED APPROPRIATELY. (BY ELECTRICAL)

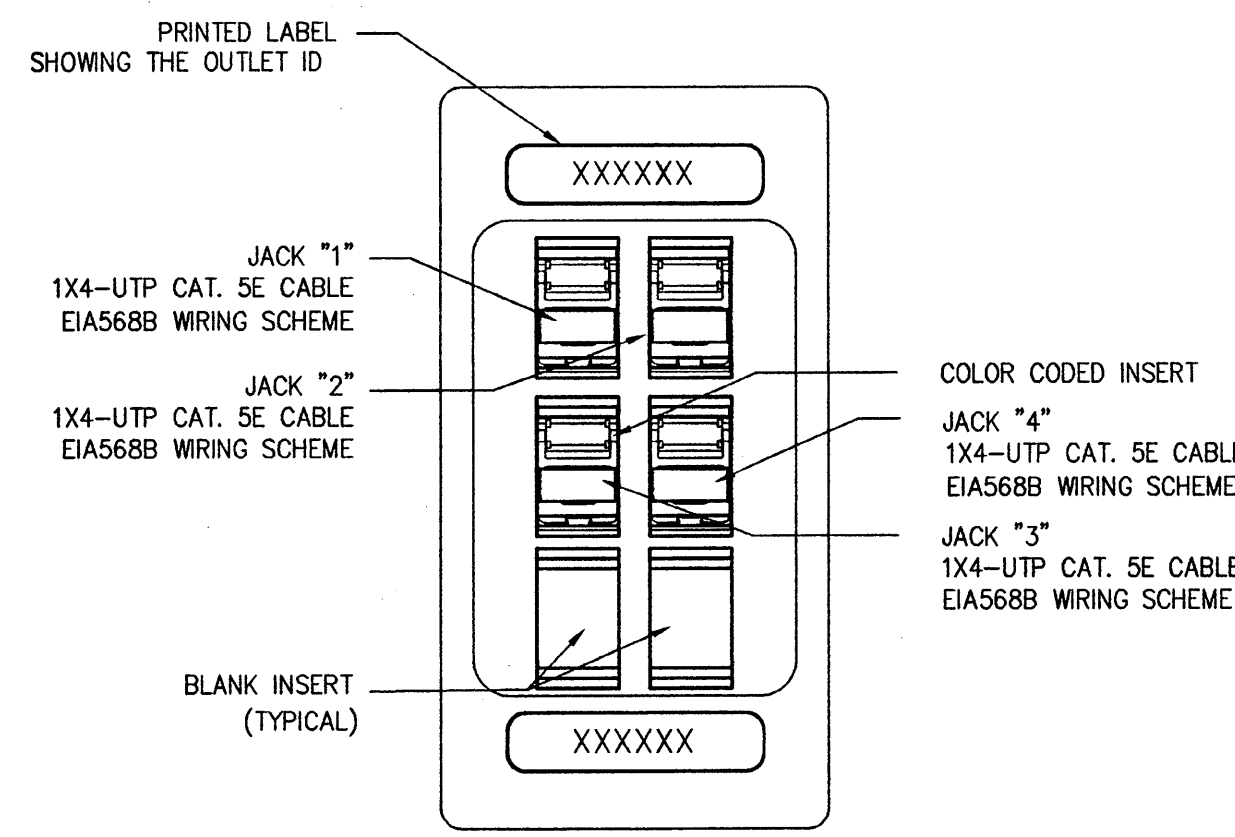
TWGB - TELECOMM MAIN GROUNDING BUSBAR  
TBB - TELECOMM BONDING BACKBONE  
TGB - TELECOMM GROUNDING BUSBAR

2 TELECOMM GROUNDING DIAGRAM  
SCALE: NTS



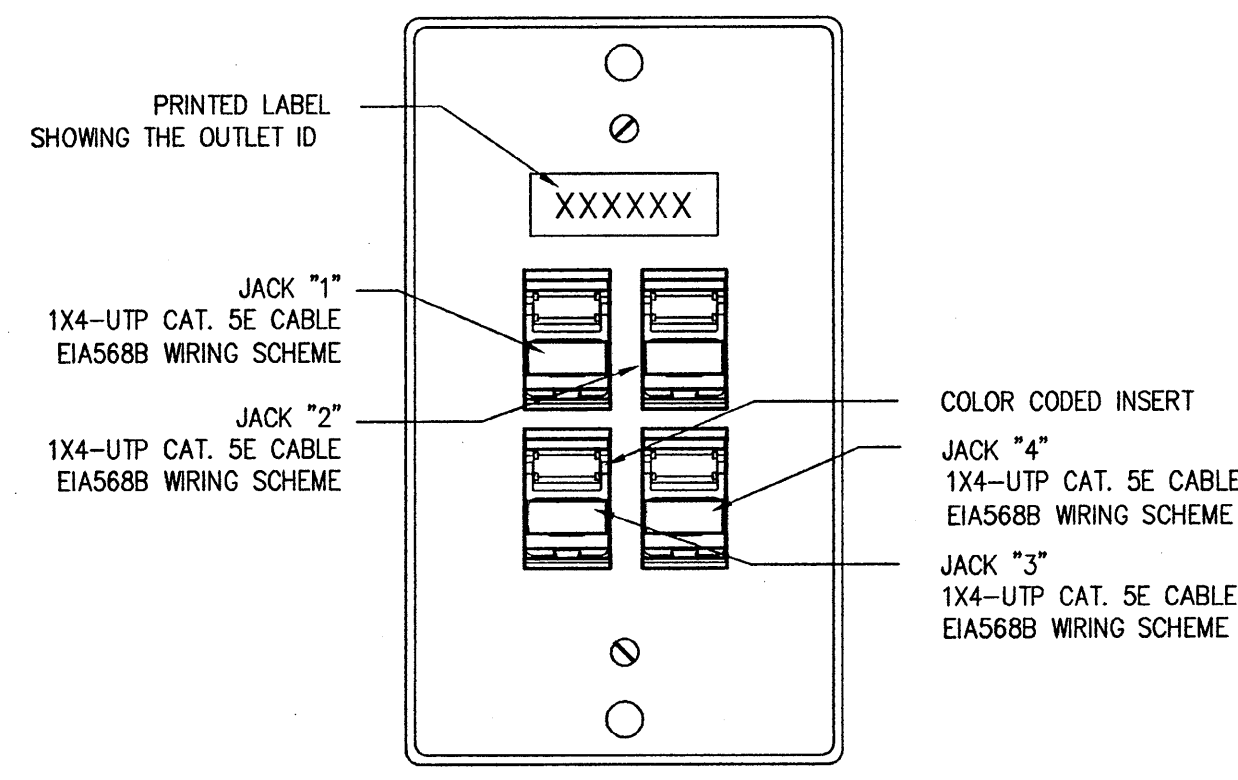
1 STANDARD WALL MOUNTED TELECOMM "VOICE ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼, ▼



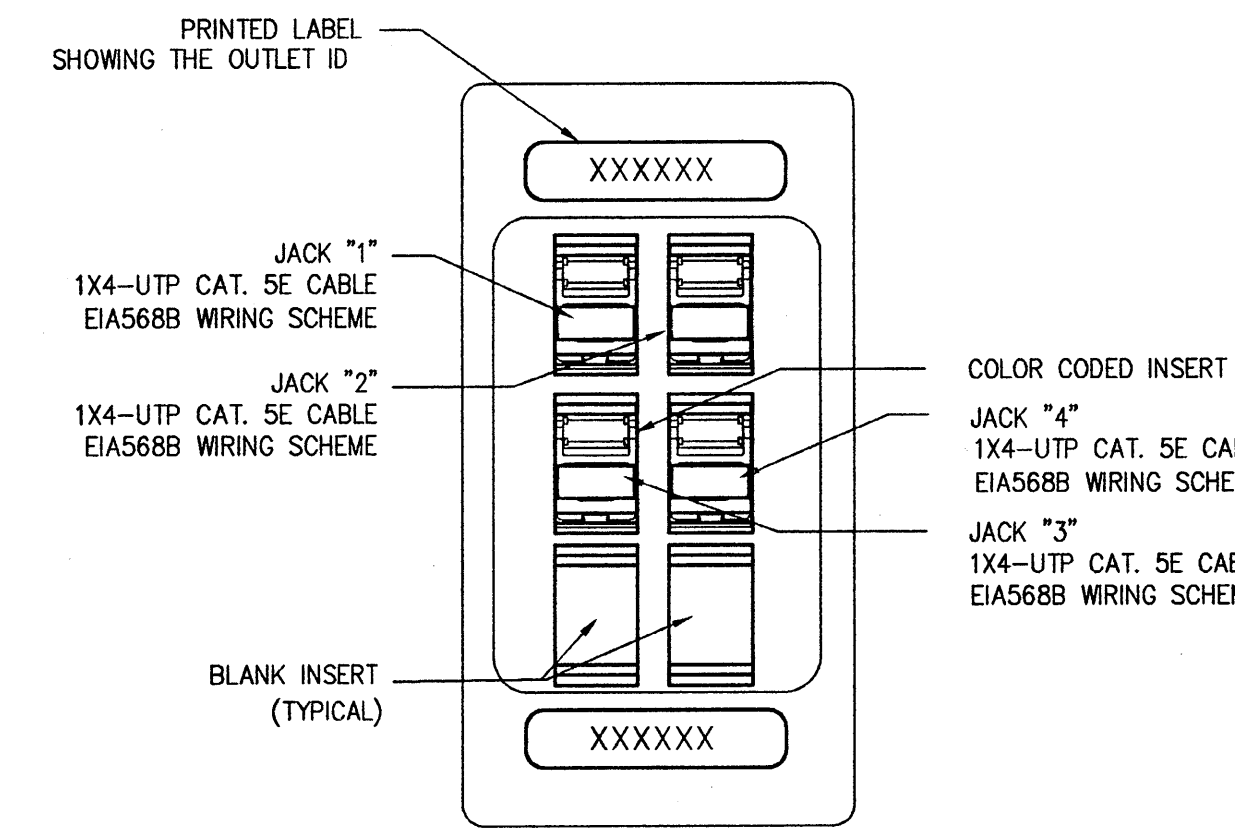
2 STANDARD WALL MOUNTED TELECOMM "VOICE/DATA" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



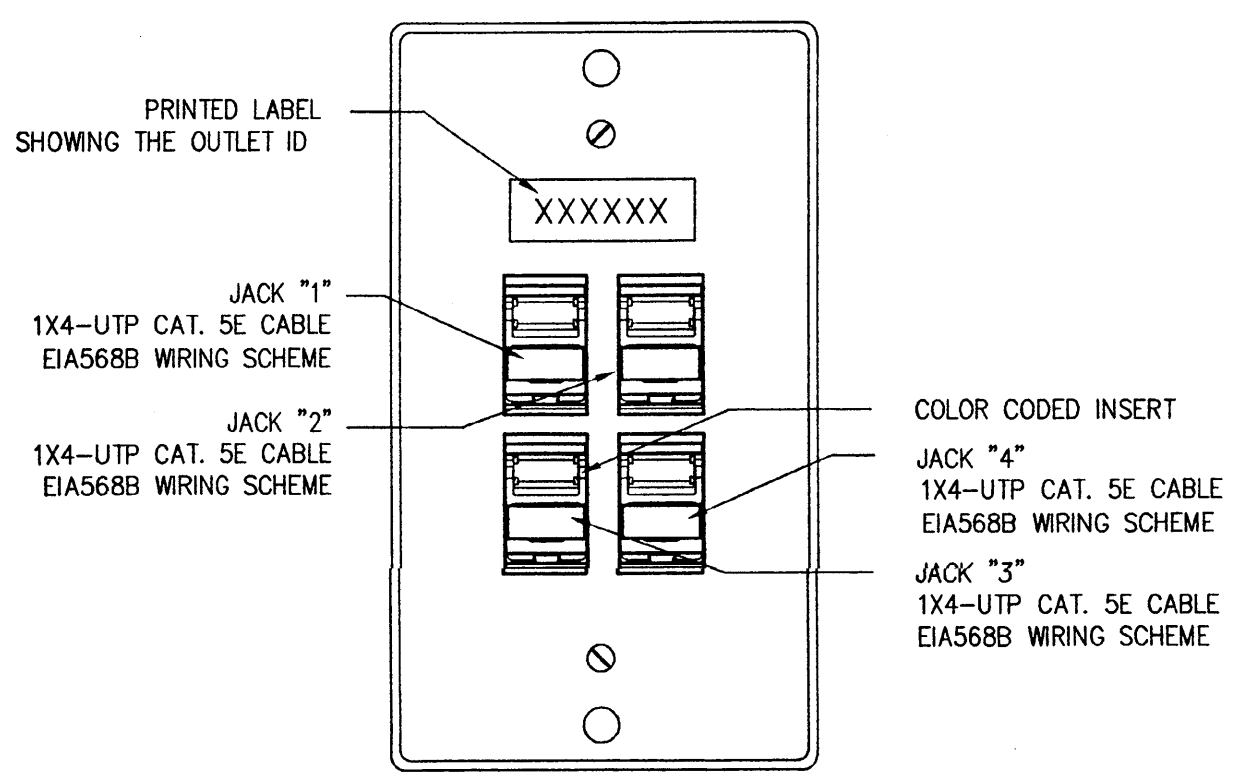
3 STANDARD "FLOOR MOUNTED BOX TYPE" TELECOMM VOICE/DATA" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



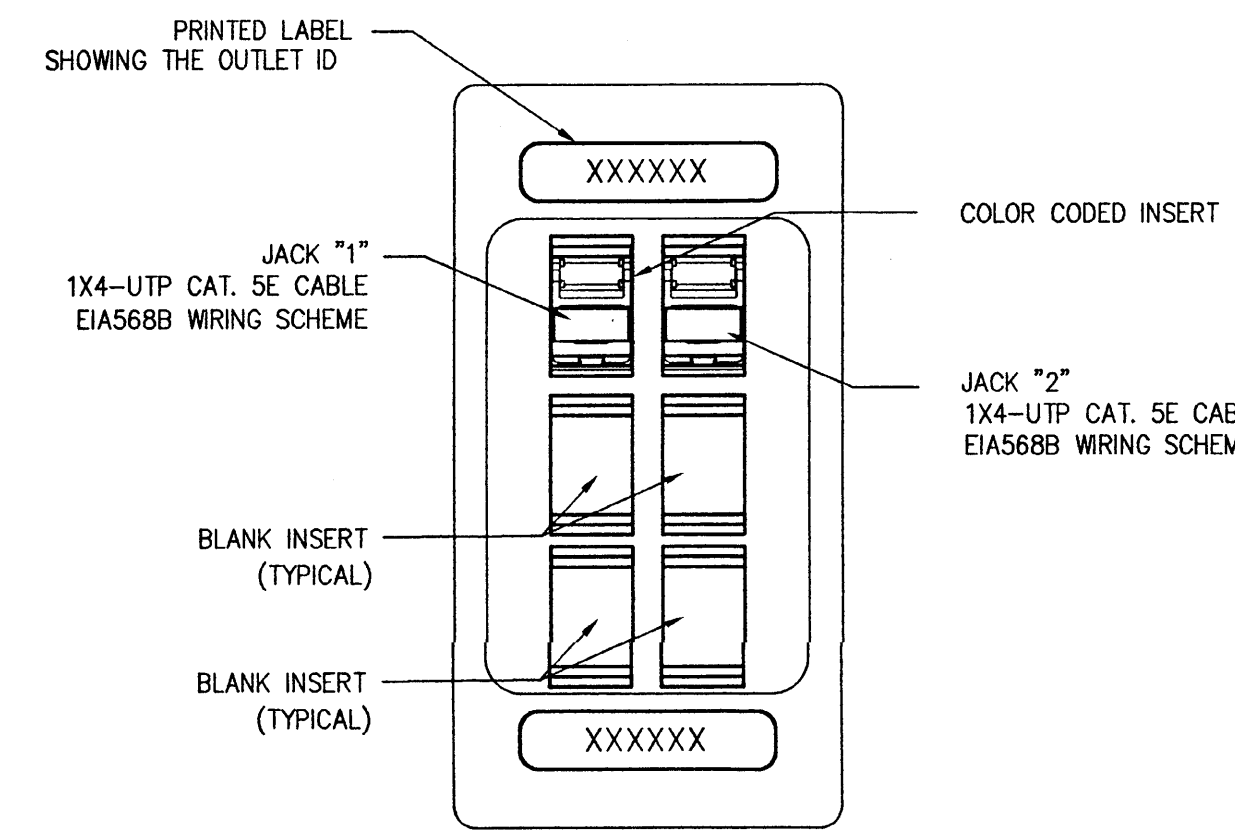
4 WALL MOUNTED TELECOMM QUAD "DATA ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



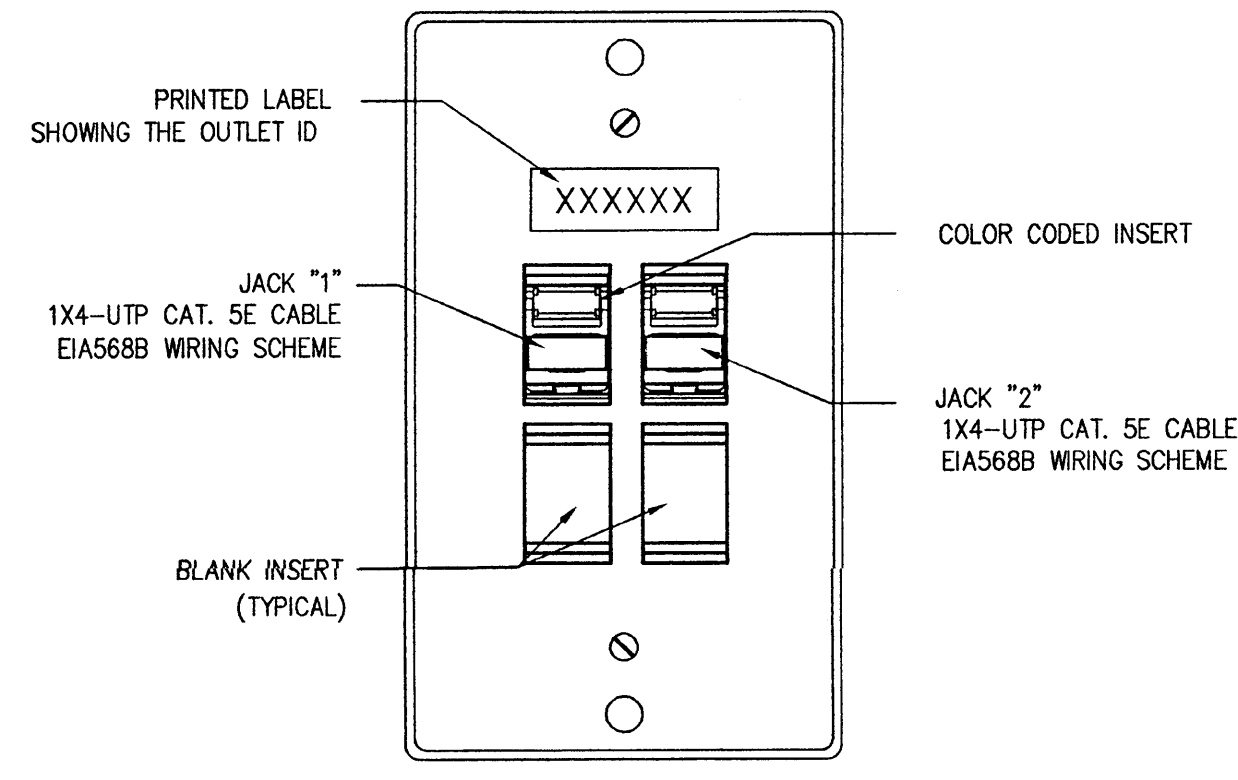
5 "FLOOR MOUNTED BOX TYPE" TELECOMM QUAD "DATA ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



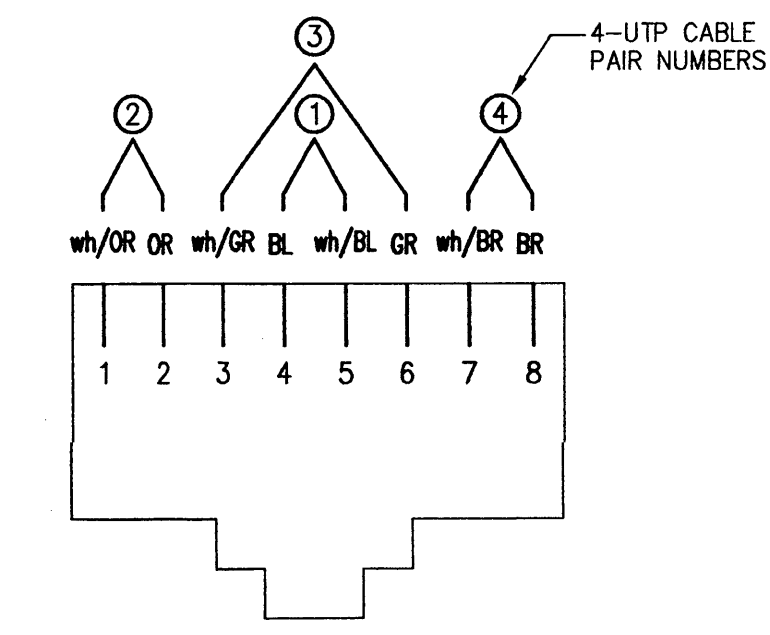
6 WALL MOUNTED TELECOMM DUPLEX "DATA ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



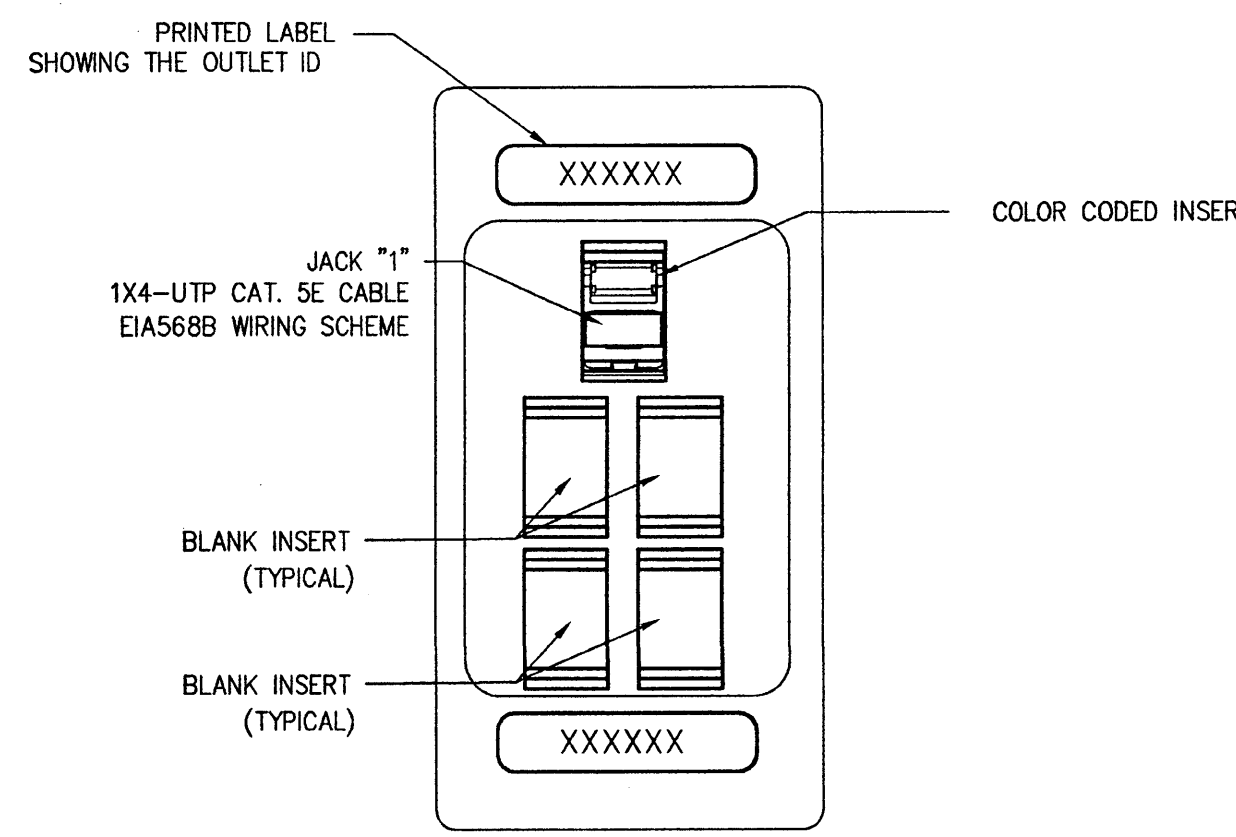
7 "FLOOR MOUNTED BOX TYPE" TELECOMM DUPLEX "DATA ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



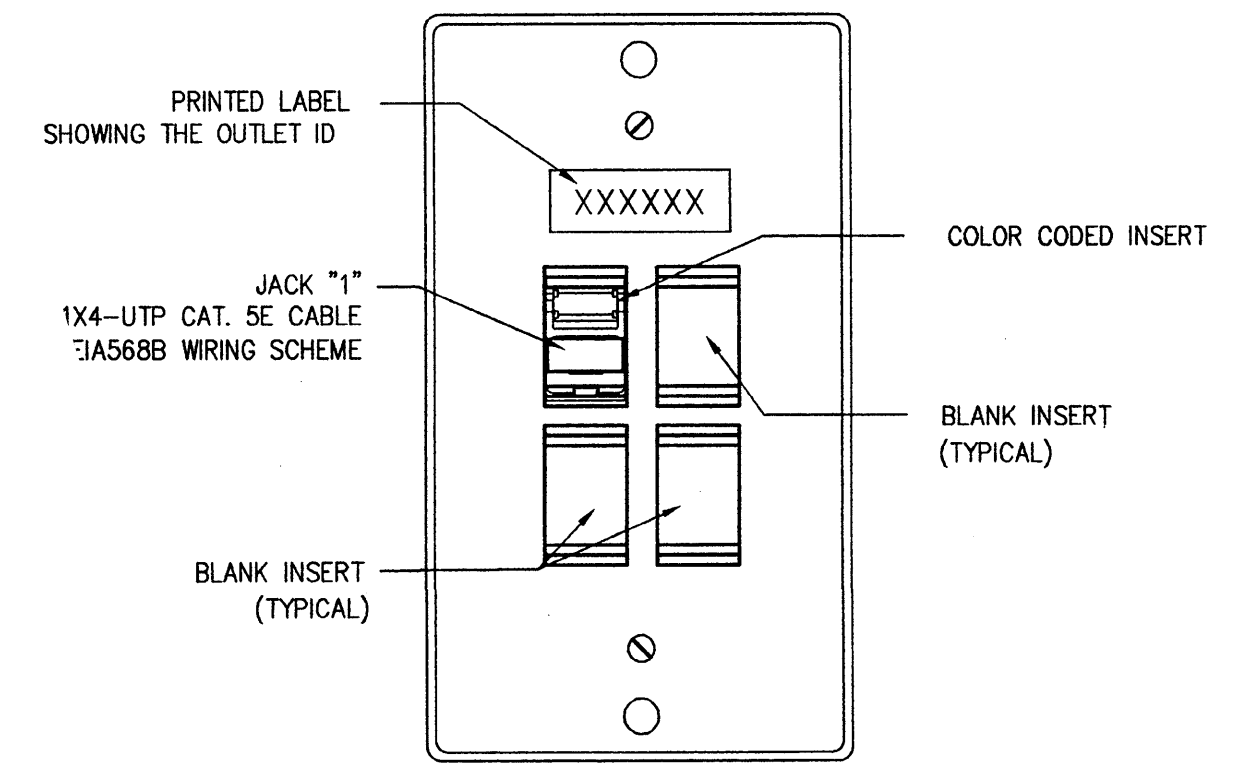
8 EIA568B WIRING SCHEME

SCALE: NTS



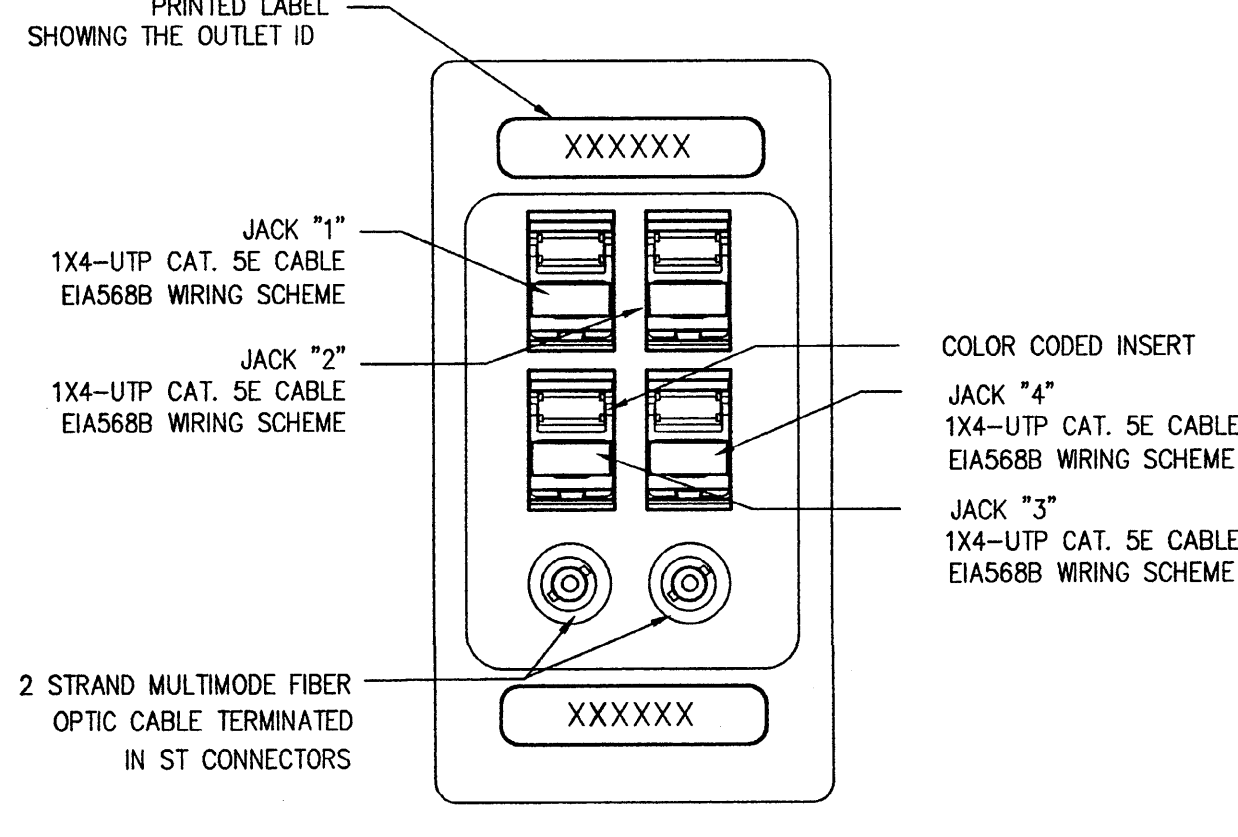
9 STANDARD WALL MOUNTED TELECOMM "DATA ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



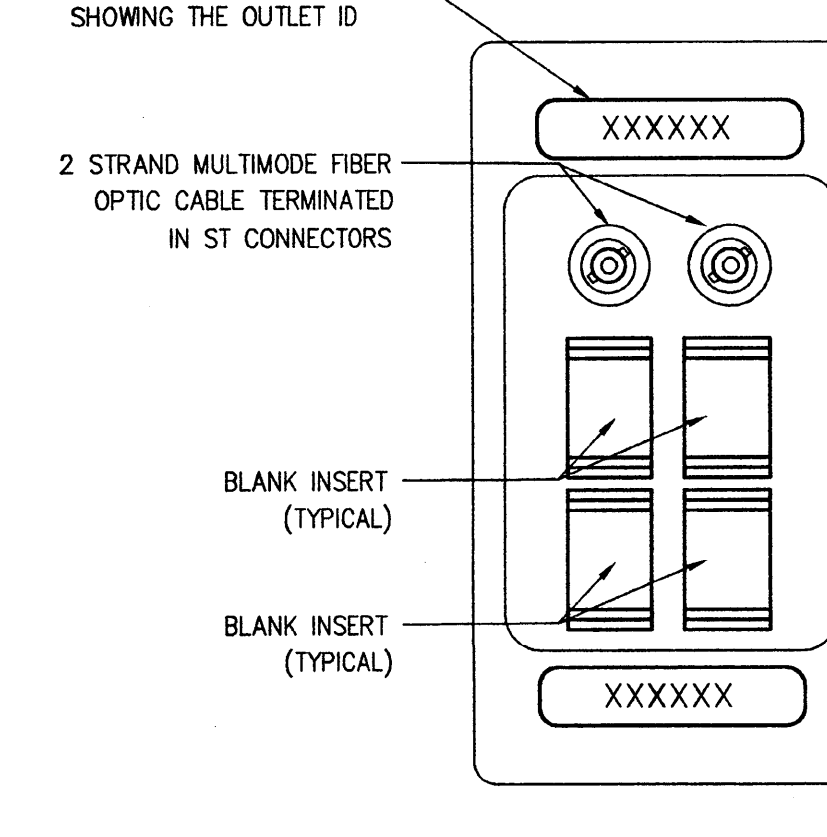
10 STANDARD "FLOOR MOUNTED BOX TYPE" TELECOMM "DATA ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



11 WALL MOUNTED "VOICE/DATA/FIBER" TELECOMM WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼



12 WALL MOUNTED TELECOMM "FIBER ONLY" WORKSTATION OUTLET

SCALE: NTS SYMBOLS: ▼

T.H.C. ORIG-CONSTRUCT T-401

DATE

DATE

DATE

DATE

DATE

DATE

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

TELECOMM OUTLET DETAILS

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE

PROJECT # CC-01-MC 97/98-318

PROJECT MANAGER

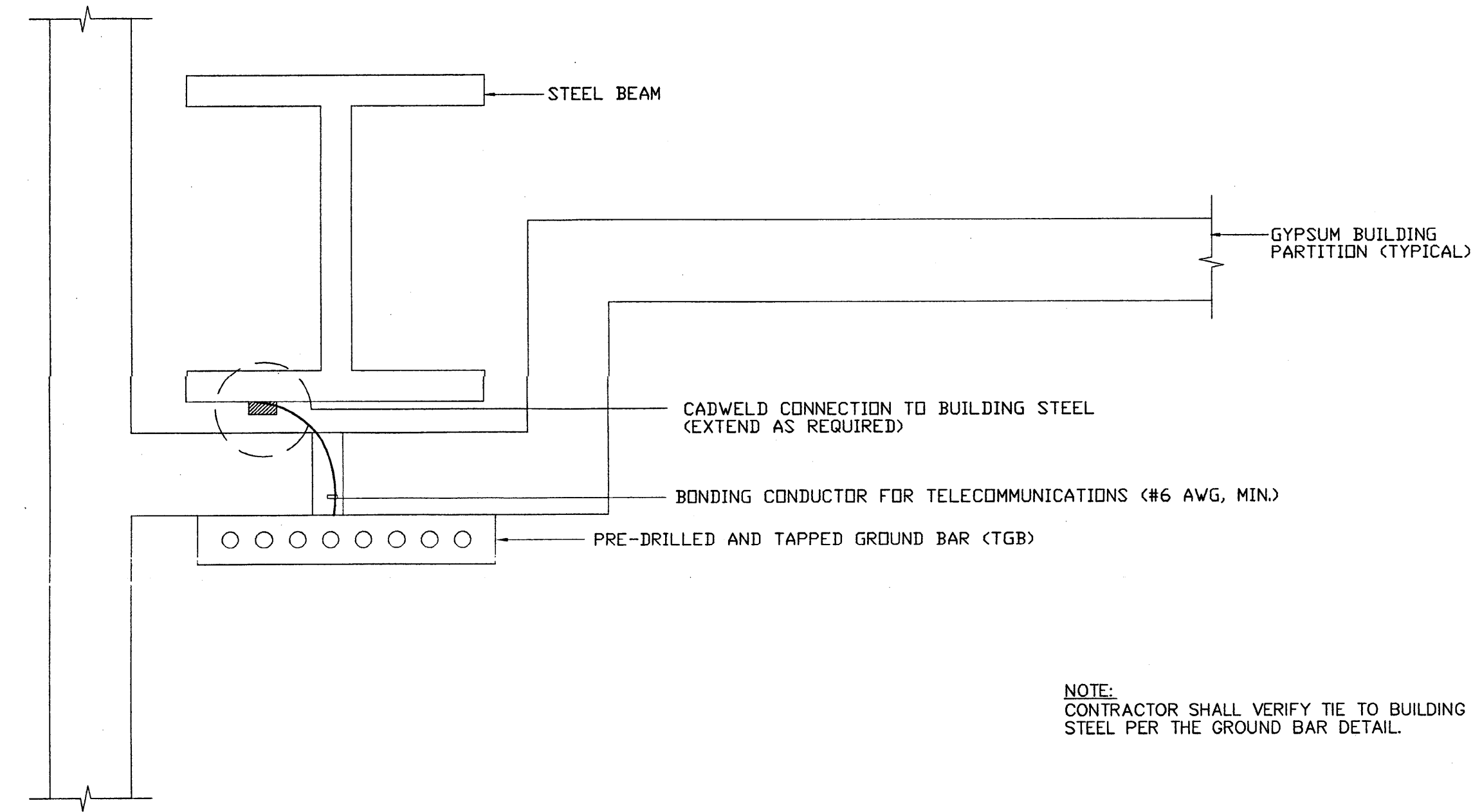
CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
5th Edition/Revised  
Montgomery County, Maryland

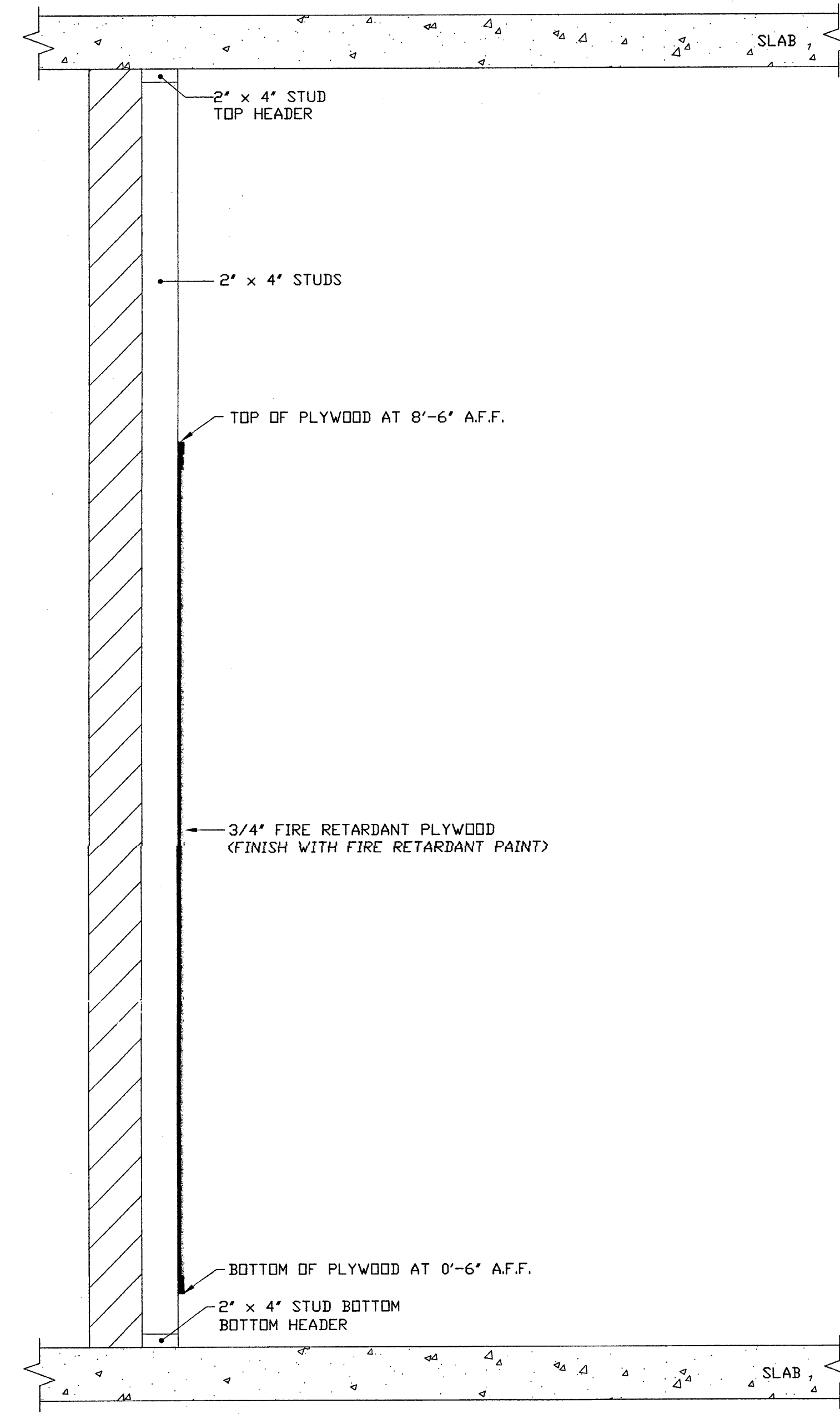
SILVER SPRING, MARYLAND

T-401

SHEET OF

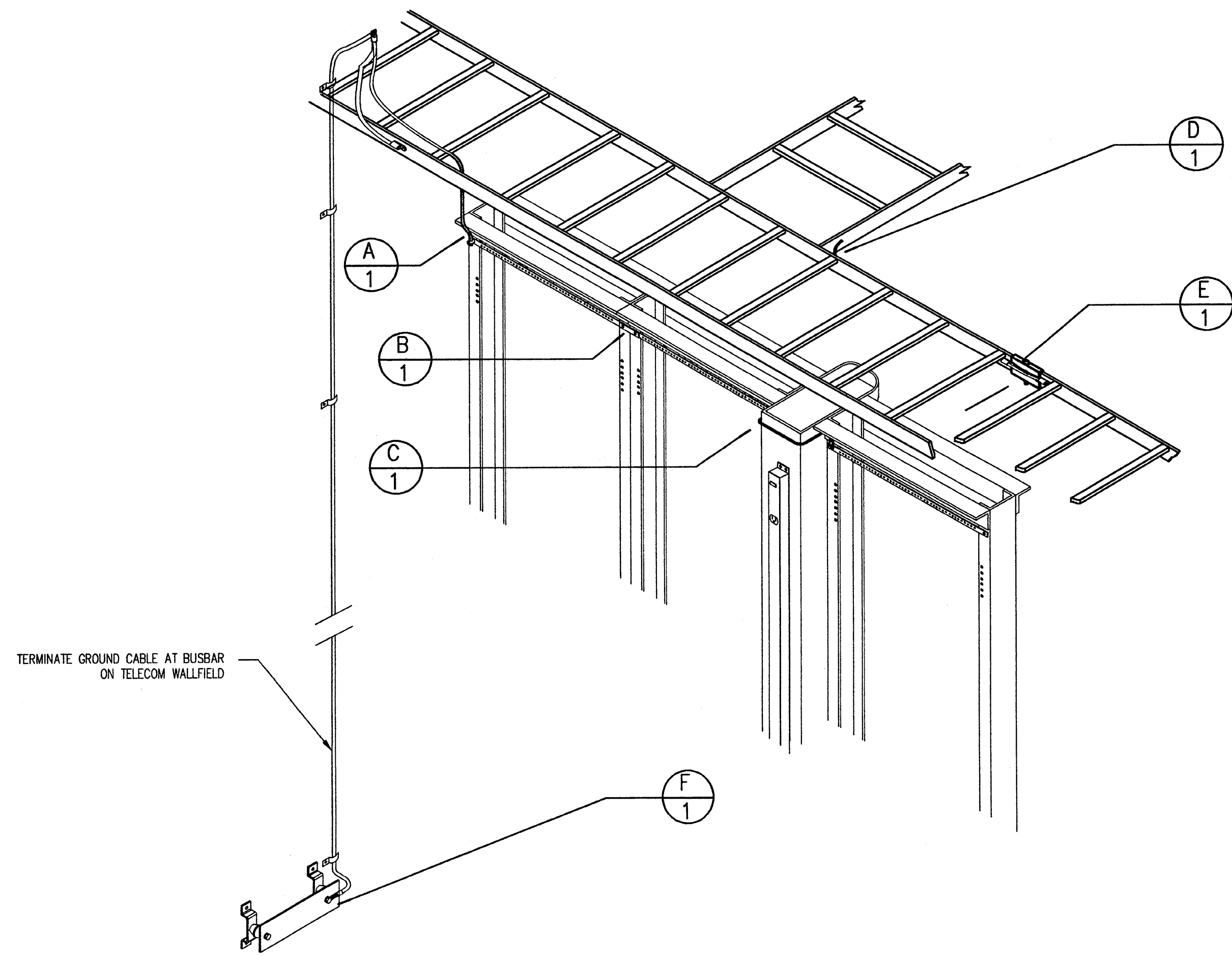


1 TYPICAL GROUND BAR MOUNTING DETAIL  
SCALE: NTS

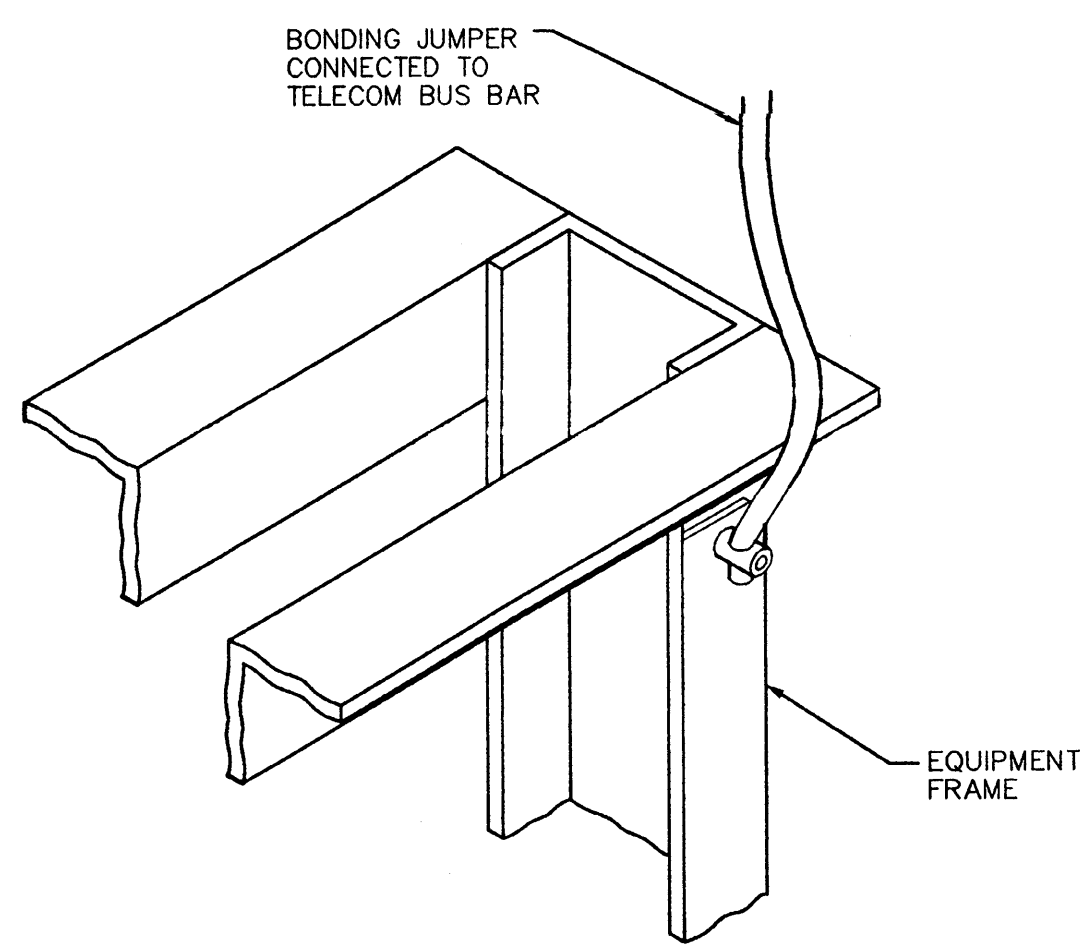


2 TYPICAL WALLFIELD CONSTRUCTION  
(FOR ROOMS WITHOUT RAISED FLOOR)  
SCALE: NTS

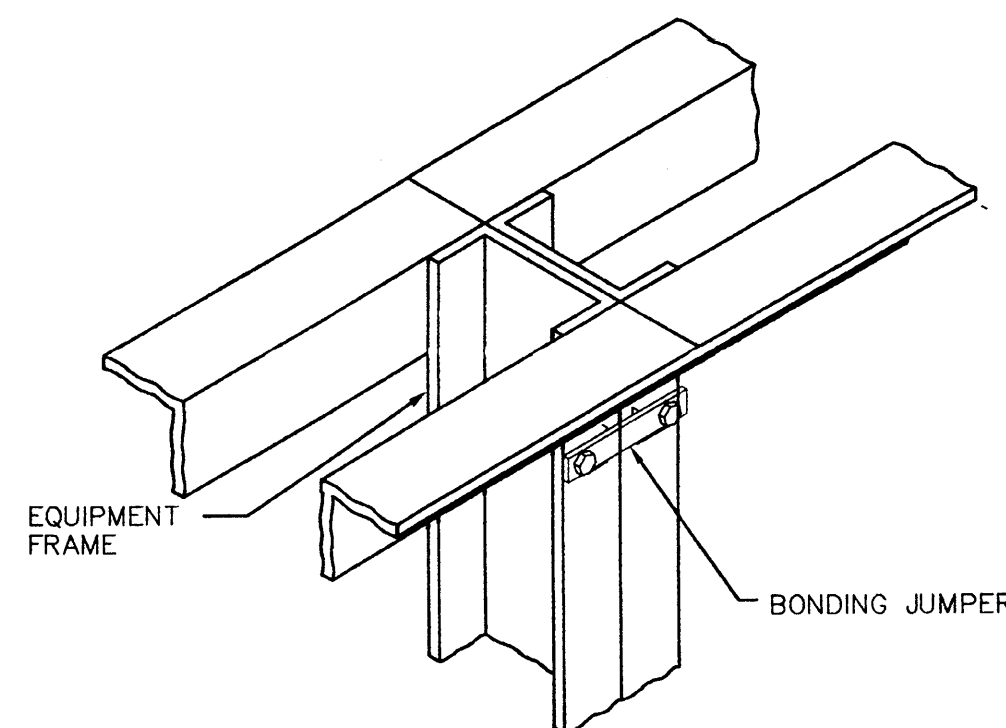




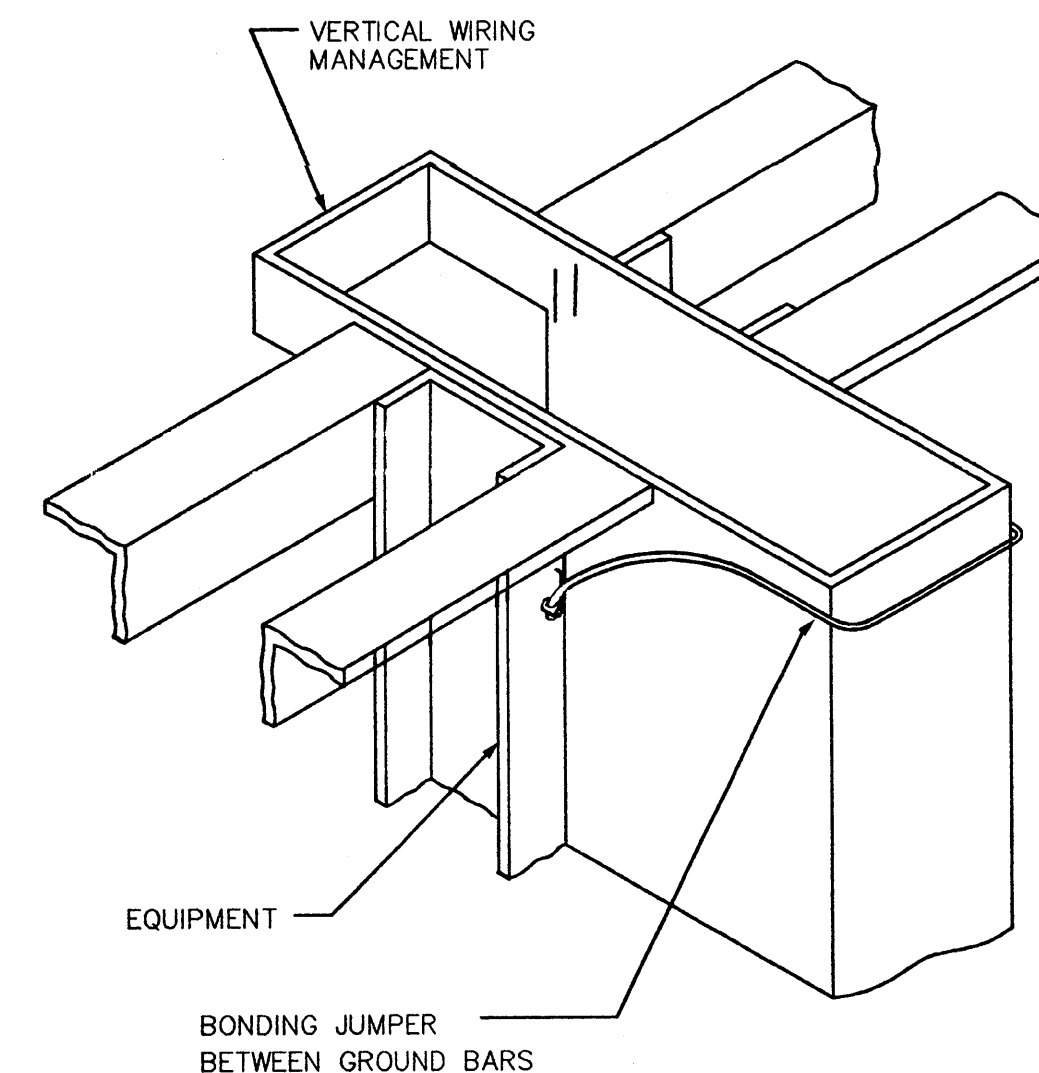
1 TYPICAL GROUNDING SYSTEM OVERVIEW  
SCALE: NTS



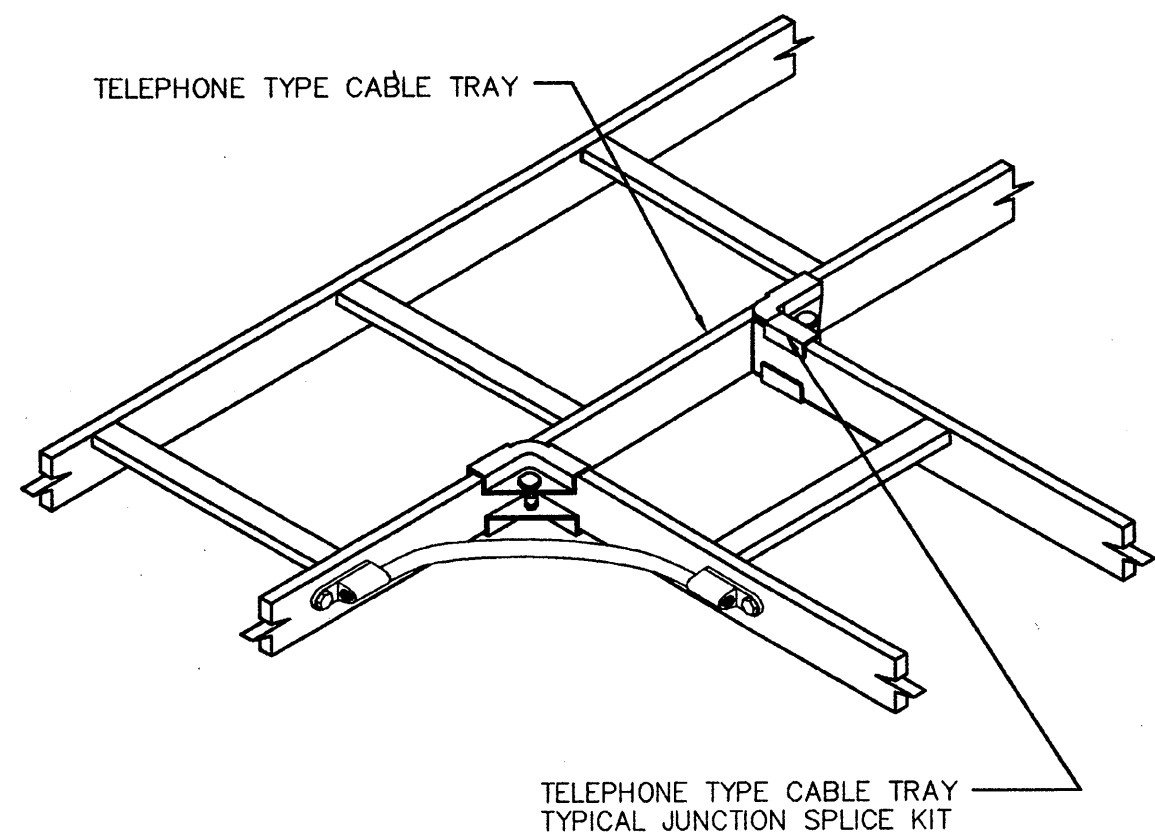
A EQUIPMENT RACK GROUND  
SCALE: NTS



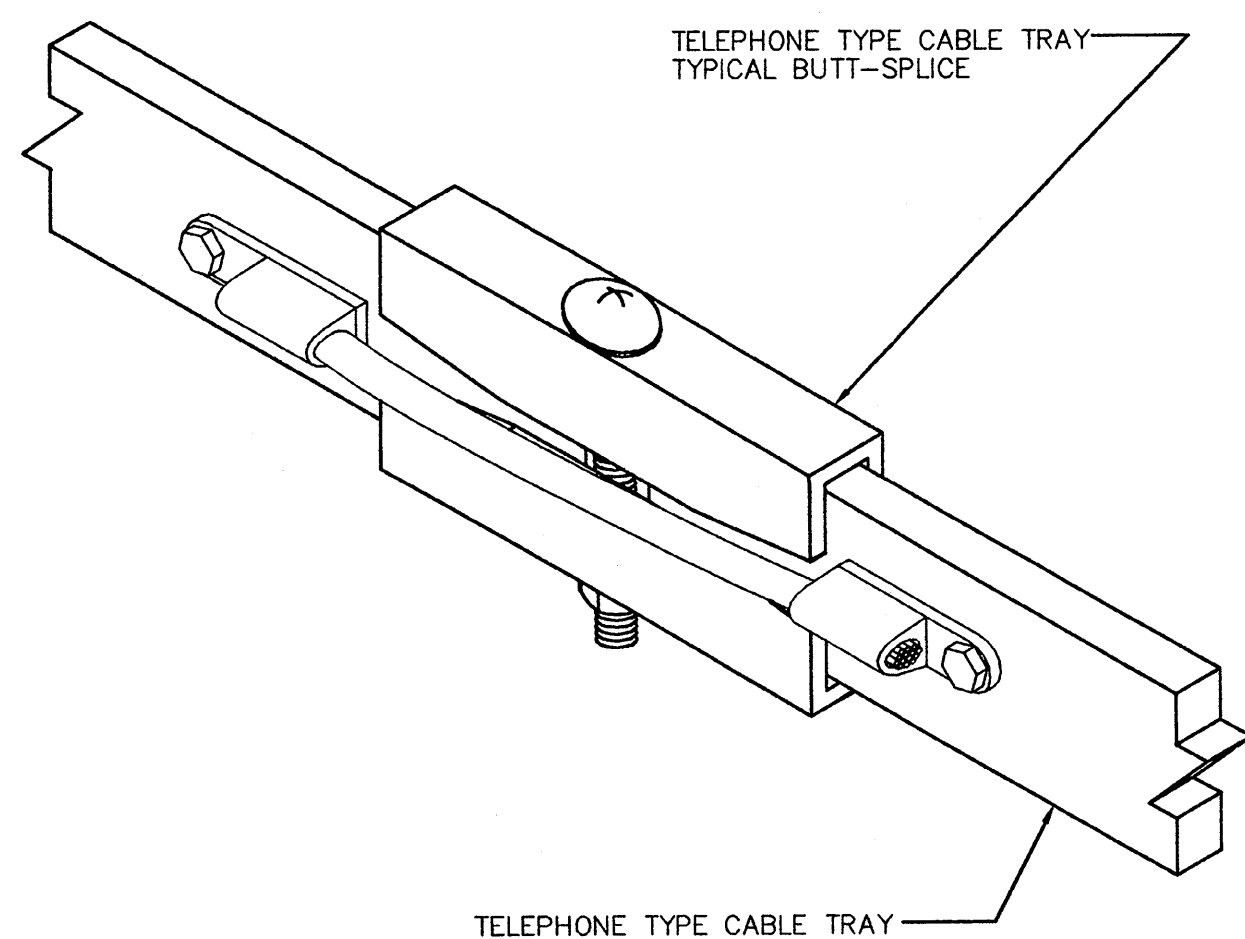
B GROUND BAR SPLICE  
SCALE: NTS



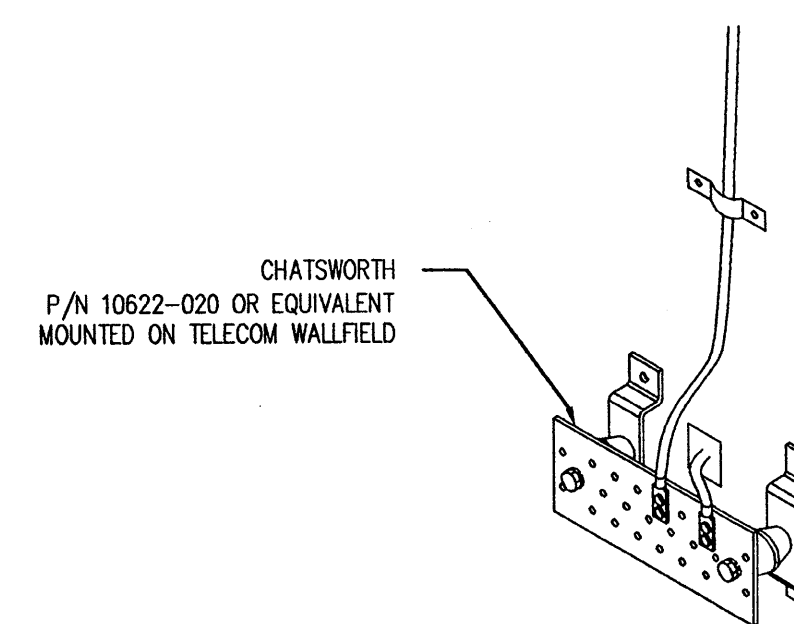
C GROUND BAR JUMPER SPLICE  
SCALE: NTS



D CABLE RUNWAY BONDING  
SCALE: NTS



E CABLE RUNWAY BONDING  
SCALE: NTS



F TELECOM GROUND BUSBAR  
SCALE: NTS

# TELECOMMUNICATIONS CABLE TRAY SPECIFICATIONS

## PART 1 - GENERAL

### 1.01 WORK INCLUDED

- A. Cable tray systems and assemblies. (By Elec. Contractor)
- B. Center supported cable tray and assemblies. (By Elec. Contractor)
- C. Ladder rack (cable runway) and assemblies. (By Conn. Contractor)

### 1.02 RELATED WORK

- A. Section 16050 - Basic Electrical Materials, Methods and Requirements.
- B. Section 16060 - Grounding and Bonding Requirements.

### 1.03 REFERENCES

- A. NEMA - National Electrical Manufacturers' Association.
- B. ANSI/NFPA 70 - National Electric Code.
- C. ASTM - American Society for Testing and Materials.
- D. UL - Underwriters' Laboratories.

### 1.04 QUALITY ASSURANCE

- A. In order to define requirements for quality and function, product specifications designate manufacturers. Equivalent or better products of other un-named manufacturers may be proposed for consideration by adhering to specification requirements.

### 1.05 SUBMITTALS

- A. Submit product data under provisions of Division 1 Section 'Submittal procedures'.

## PART 2 - PRODUCTS

### 2.01 CABLE TRAY SYSTEMS AND ASSEMBLIES

- A. Cable tray systems shall be made of straight sections fittings and accessories as defined in the latest NEMA standards publication VC-1. Standard cable trays shall be UL classified as equipment grounding conductors (excluding stainless steel).
- B. Cable tray material shall be aluminum.
- C. Cable tray types shall be ladder trays, trough trays, solid-bottom trays and channel trays as indicated on the drawings as follows:
  1. Lengths of straight sections - 12 feet (+/- 3/16") and 24 feet (+/- 5/16"), not including connectors if attached.
  2. Widths - 9, 12, 18, 24, 30, 36 and 42 inches (+/- 1/4") inside dimension as indicated on the drawings. Overall widths shall not exceed inside widths by more than 4 inches.
  3. Depth - Inside depth shall be 6 inches (+/- 3/8"). Outside depth shall not exceed inside depths by more than 1-1/4 inches.
  4. Radii - 36 inches.
  5. Degree of arc for elbows - 30, 45, 60 and 90 degrees as indicated on the drawings.
  6. Bottom - Bottom is solid when near EMI sources.
  7. Rung spacing - 6' on center.
- D. The side rails of straight sections and fittings shall be compatible so that standard splice plates can be used to join straight sections and fittings.

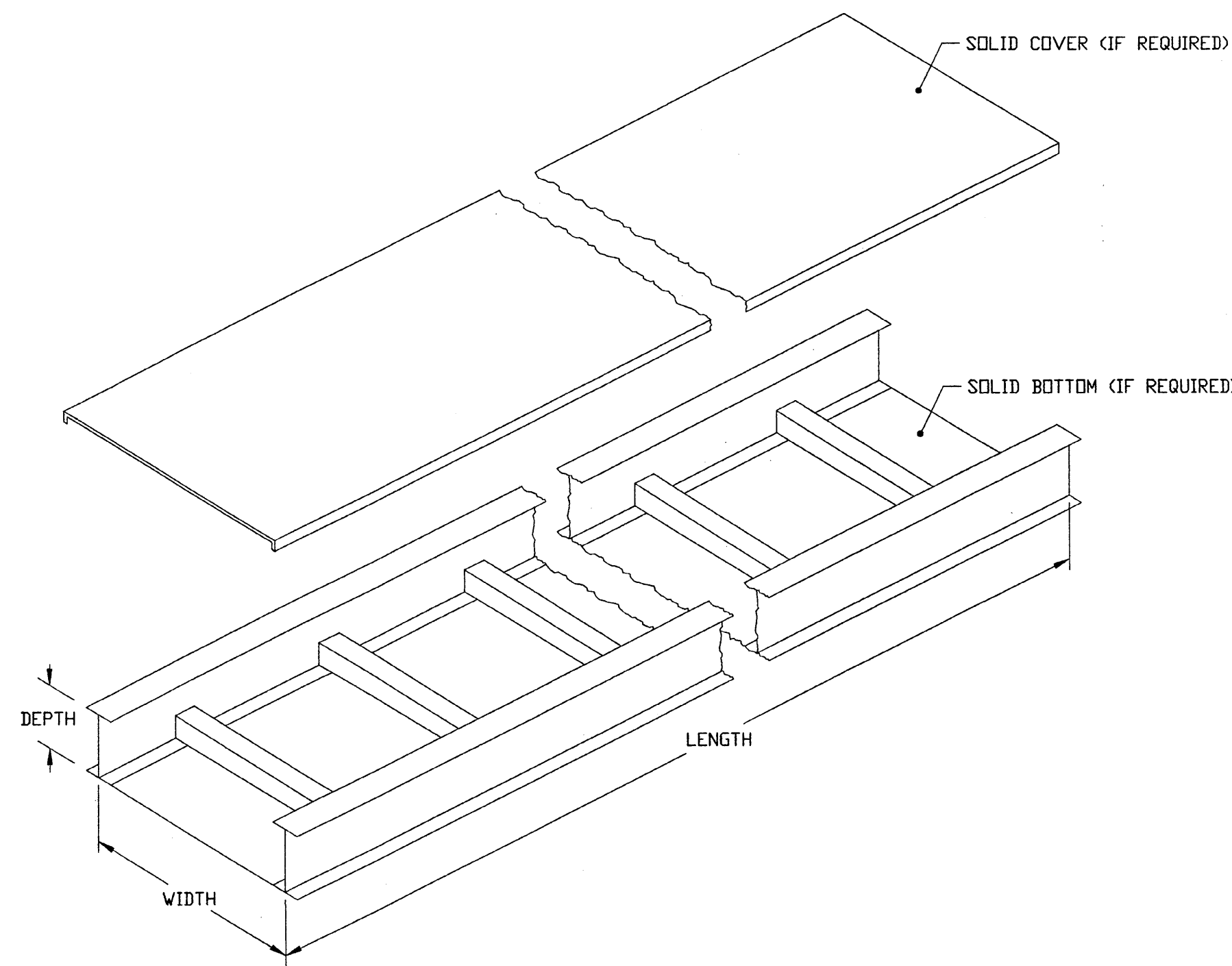
## PART 3 - EXECUTION

### 3.01 INSTALLATION

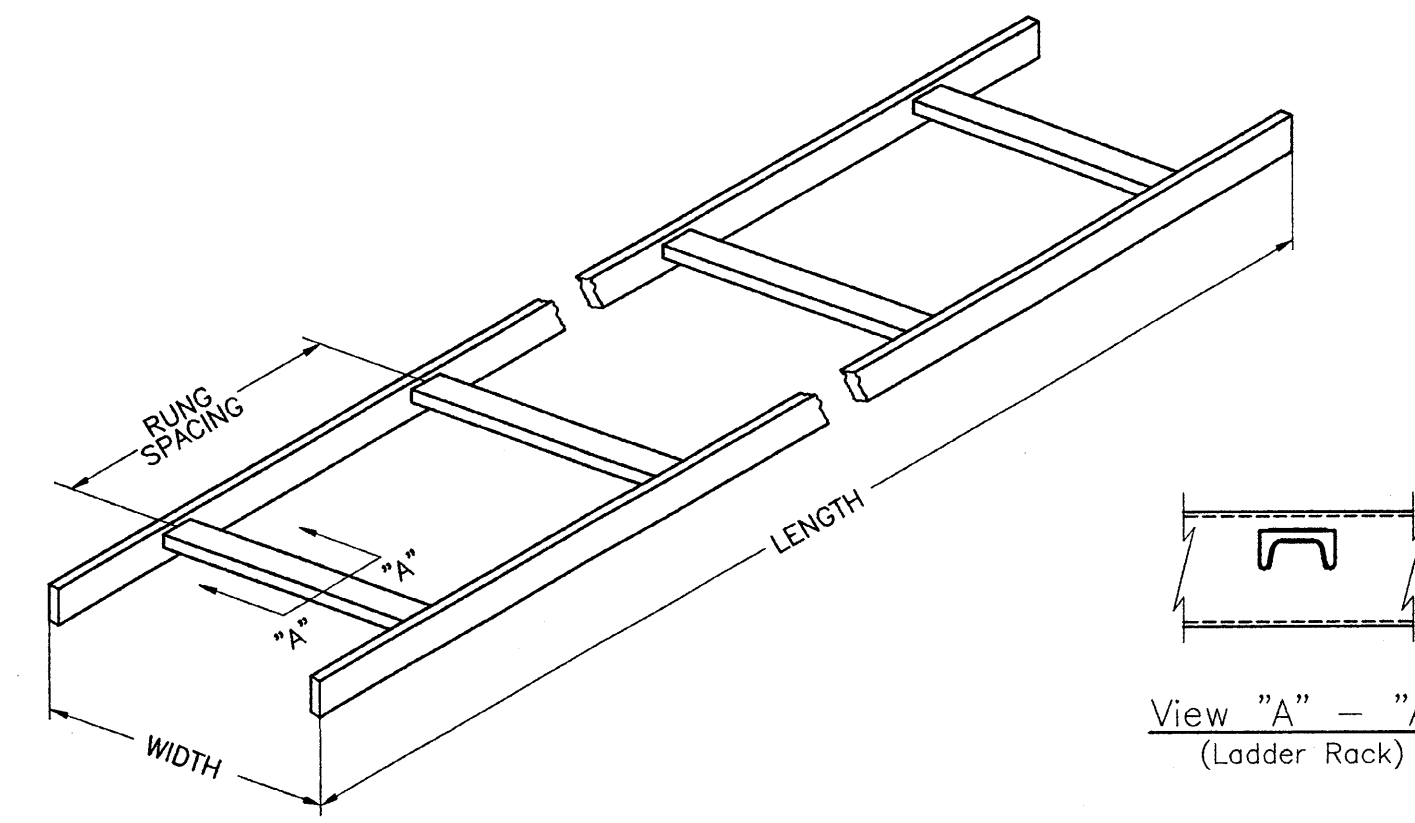
- A. Install cable tray and ladder rack assemblies in accordance with the following:
  1. They shall be arranged so as to provide a minimum of 6' of clearance above the side rails on to be permanently accessible for the installation of wires and cables.
  2. They shall be made up so as to assure ground continuity for their entire length. Ground straps shall be provided at all expansion fittings.
- B. Support cable tray/ladder rack assemblies in accordance with the following:
  1. Provide supports on both sides of a splice connecting two straight horizontal sections within the distance between the splice and the adjacent straight section quarter point (at a distance not more than 24' from the splice point).
  2. Provide a support at the end of each straight section constituting the terminations of a horizontal run, locating such support to fall within the distance between the end of the run and the adjacent quarter point of the straight section (at a distance not more than 24' from the end of the run).
  3. Provide a support at each straight horizontal section within two feet of its entry into a tee or cross or elbow fitting.
  4. Provide a support at the mid-point of each elbow except for 12" radius and 30 degree and 45 degree elbows.
  5. Provide a support for each side rail of each tee and cross.
  6. Provide intermediate supports where necessary to eliminate unsupported horizontal spans in excess of 10'-0".
  7. Provide supports for vertical runs on centers not in excess of 8'-0".
  8. Supports and their fastenings to building structure shall be sized to support safely the weight of the cable tray/ladder rack assemblies plus one pound for each twelve cubic inches of volume they contain based on their nominal dimensions.
  9. Each support shall be equipped with a hold down device to eliminate a relative motion between it and the cable tray/ladder rack section it carries.
- C. The inside of cable tray/ladder rack systems shall present no sharp edges, burrs or projections which could damage cable insulation.
- D. Expansion connectors shall be provided in accordance with NEMA standards and the manufacturer's recommendations.
- E. At support points, threaded rod must be hung from concrete inserts, clamps or devices that are securely fastened into the slab, wall or beam sufficiently to carry the load of the tray and its contents with a safety factor of 3.
- F. Cable tray/ladder rack systems shall not be used as walkways or ladders unless specifically designed and installed for that purpose.
- G. Cable tray shall be installed with complete access from either side to allow cable to be laid directly into the tray in lieu of pulling.

### 2.02 LADDER RACK (CABLE RUNWAY) AND ASSEMBLIES

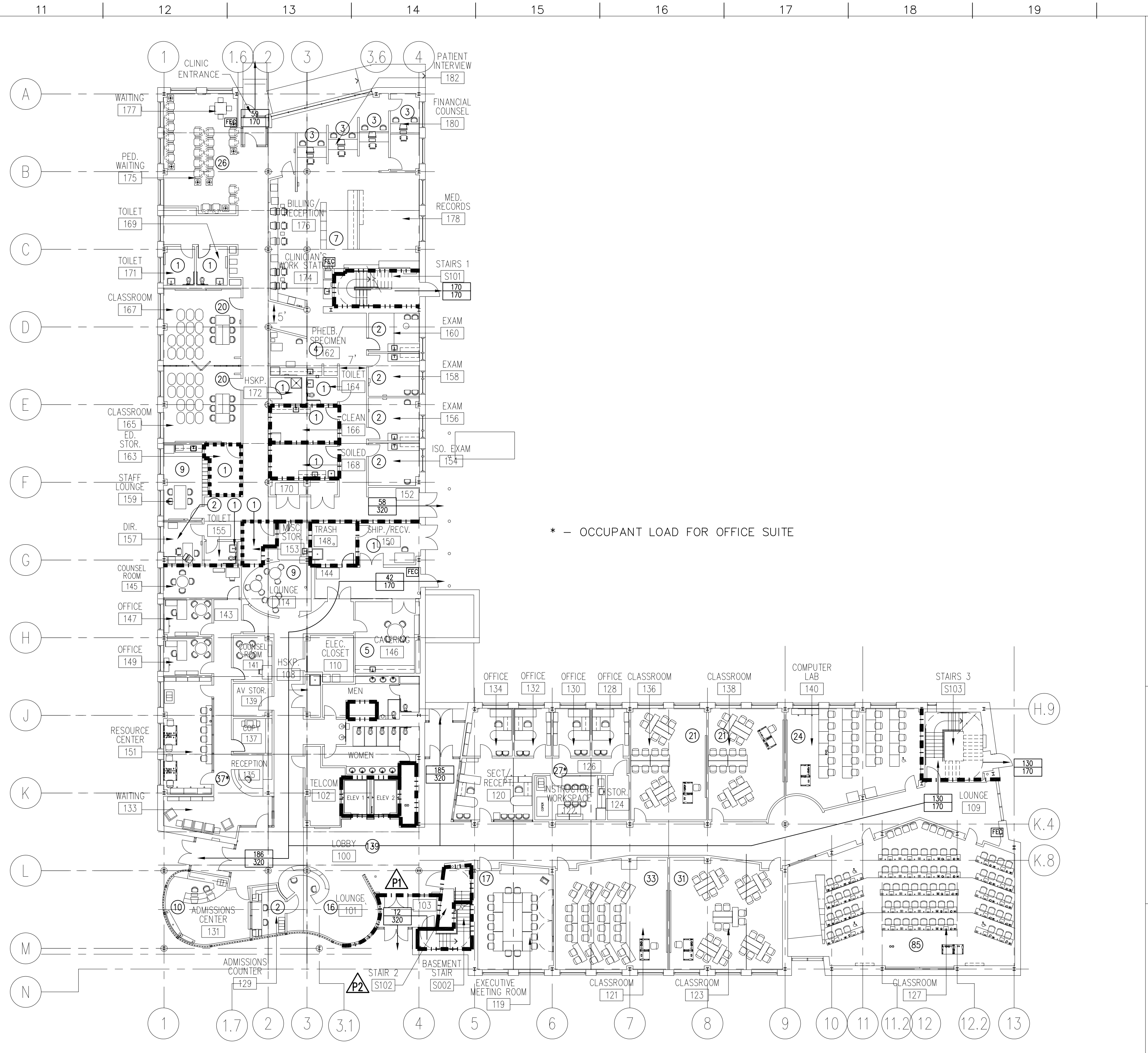
- A. Ladder rack (cable runway) shall be made of straight sections, fittings and accessories dimensioned to conform with industry runway standards.
- B. Ladder rack materials shall be steel tubular bar with a baked enamel finish.
- C. Ladder rack shall be of the ladder type and shall consist of cross-members which are welded to the inside of side bars and consist of the following:
  1. Lengths - from 4'-5/12" to 9'-11" not including connectors if attached.
  2. Widths - 12 and 24 inches as indicated on the drawings.
  3. Side bars shall be 3/8" wide and 1-1/2" or 2" deep.
  4. Cross member spacing - shall be 9' on center.
- D. Straight sections of ladder rack shall be fastened together using a matching butt-splice kit.
- E. All ladder rack shall be joined at all crossings, intersections, angles, etc. using approved couplers, brackets and splices manufactured for this purpose.
- F. All unspliced ends of ladder rack shall be finished with an end closing kit manufactured for this purpose.
- G. Ladder rack extensions shall be provided, if required, for providing additional capacity to the ladder rack system. They shall be vertical members which securely fastened to tubular rungs or side members and are manufactured of the same material as the ladder rack. The vertical height of the extensions shall be 6'.
- H. Special accessories shall be furnished as required to protect, support and install a complete ladder rack system.
- I. Ladder rack systems shall be manufactured by B-Line Systems, Inc., CPI/Chatsworth, Newton or Homaco, Inc. or other approved.



CABLE TRAY DETAIL  
NO SCALE



LADDER RACK (CABLE RUNWAY) DETAIL  
NO SCALE



**G1 BASEMENT PLAN**  
1/16"=1'-0" A10B

**G11 FIRST FLOOR PLAN**  
1/16"=1'-0" A101

**PROJECT DESIGN DATA:**

**PROJECT OWNER:** MONTGOMERY COLLEGE  
900 HUNGERFORD DRIVE  
ROCKVILLE, MARYLAND

**APPLICABLE CODES:** IBC INTERNATIONAL BUILDING CODE / 2000  
NFPA LIFE SAFETY CODE/ 2000

**BUILDING ADDRESSES:** MONTGOMERY COLLEGE HEALTH SCIENCES BUILDING 7977 GEORGIA AVENUE SILVER SPRING, MARYLAND

HOLY CROSS HOSPITAL CLINIC AT MONTGOMERY COLLEGE 7987 GEORGIA AVENUE SILVER SPRING, MARYLAND

**BUILDING DESIGN DATA:**

**BUILDING CONSTRUCTION TYPE:** 2B

- \* THIS BUILDING IS PROVIDED WITH A COMPLETE AUTOMATIC FIRE SUPPRESSION SPRINKLER SYSTEM PER NFPA 13.
- \* THIS BUILDING IS PROVIDED WITH A FIRE ALARM SYSTEM PER NFPA 72 CONNECTED TO AN APPROVED, REMOTE MONITORING STATION. THIS SYSTEM WILL SUPERVISE THE ALARM AND SUPPRESSION SYSTEMS.
- \* THE BUILDING WILL BE PROVIDED WITH FIRE EXTINGUISHERS PER NFPA 10
- \* THIS BUILDING DESIGN IS BASED UPON NON-SEPARATED, MIXED USE GROUPS PER IBC 302.3.
- \* THIS BUILDING DESIGN DOES INCLUDE PENETRATIONS THROUGH FIRE-RESISTANCE RATED ASSEMBLIES. ALL PENETRATIONS ARE SEALED WITH FIRE-RESISTANCE RATED MATERIALS INSTALLED AS PRESCRIBED BY NATIONAL TESTING SERVICES AND AS OUTLINED BY ASTM E119
- \* THIS BUILDING IS SITED TO PROVIDE OVER 66% OF ITS PERIMETER ALONG A STREET OR OTHER UNOCCUPIED SPACE.

**BUILDING USE GROUP:** BUSINESS & ACCESSORY USES  
ACCESSORY USES INCLUDED: ASSEMBLY A-3 & STORAGE

CODE ALLOWANCE	ACTUAL DESIGN
<b>BUILDING AREA:</b> TYPE 2B ALLOWS FOR AREA OF AUTO SPRINKLER PROVIDES: 23,000 SF 48,000 SF STREET FRONTAGE ADDS: 15,205 SF MODIFIED 2B AREA LIMIT: 84,205 SF TOTAL	25,302 SF ABOVE GRADE
<b>GROSS BUILDING AREA:</b> 252,615 SF ABOVE GRADE (PERMITTED PER 503.3)	94,192 SF ABOVE GRADE
<b>BUILDING HEIGHT:</b> TYPE 2B ALLOWS FOR HEIGHT OF AUTO SPRINKLER PROVIDES: 55 FT 20 FT MODIFIED 2B HEIGHT LIMIT: 75* FT TOTAL	60 FT
<b>BUILDING STORIES:</b> TYPE 2B ALLOWS FOR 5 STORIES	4 STORIES ABOVE GRADE PLANE WITH PENTHOUSE

**EXTERIOR WALL RATINGS**

NORTH WALL:	0	EAST WALL:	0
SOUTH WALL:	0	WEST WALL:	0

**NOTE:** ALL 2HR COMPOSITE WALL CONSTRUCTION SHALL COMPLY WITH UL# U906

**GROSS AREA PER FLOOR (SQUARE FEET)**

BASEMENT	3,846
FIRST FLOOR	25,302
SECOND FLOOR	26,151
THIRD FLOOR	24,486
FOURTH FLOOR	15,581
PENTHOUSE	2,672
<b>TOTAL</b>	<b>98,038</b>

**OCCUPANT LOAD PER FLOOR**

BASEMENT	13
FIRST FLOOR	460
SECOND FLOOR	501
THIRD FLOOR	504
FOURTH FLOOR	314
PENTHOUSE	0
<b>TOTAL</b>	<b>1,792</b>

**LIFE SAFETY LEGEND**

(47) CALCULATED OCCUPANTS

FEC or o FIRE EXTINGUISHER

SMOKE PARTITION CONSTRUCTION AS INDICATED IN PLAN

ONE HOUR FIRE-RATED WALL/PARTITION CONSTRUCTION AS INDICATED IN PLAN

TWO HOUR FIRE-RATED WALL/ SEPARATION CONSTRUCTION AS INDICATED IN PLAN

MEDIAN TRAVEL DISTANCE TO AN EXIT (IN FEET)

NUMBER OF OCCUPANTS EXIT CAPACITY

PATH INTO EXIT

NOTE: ALL SQUARE FOOTAGE NOTATIONS ON FLOOR PLANS ARE GROSS AREA CALCULATIONS.

no.	revisions/submissions	date

**STRUCTURAL ELEMENT RATINGS:** Numbers in parentheses reference IBC Bldg. Code sections.

Element	Fire Rating (hr)		Remarks
	Table 601 & 602	Design	
Exterior Wall	0	0	
Load Bearing	0	0	
Fire Separation Assemblies	2	2	(Section 1005.3.2)
Exit Enclosure	2	2	(Section 707.4)
Mechanical & Elevator Shaft	2	2	(Section 707.4)
Storage (> 100 SFT)	1	1	(Table 302.1.1)
Fire Partition	0	0	(Table 1004.3.2.1)
Exit Access Corridors	0	0	
Tenant Separation	1	1	
Interior Columns	0	0	
Support 1 Floor/Roof (Typical)	0	0	
Support 1 Floor/Roof (At Stairs/Shafts)	0	0	
Support 2+ Floors (Typical)	0	0	
Support 2+ Floors (At Stairs/Shafts)	0	0	
Floor (with beams)	0	0	
Support 1 Floor/Roof (Typical)	0	0	
Support 1 Floor/Roof (At Stairs/Shafts)	0	0	
Roof (with framing)	0	0	
Less than 15 FT Height	0	0	
15-20 FT Height	0	0	

APPROVALS:

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

CHIEF - PROJ. MGT. & DESIGN: \_\_\_\_\_ DATE: \_\_\_\_\_

TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

**Life Safety Plans**

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

HEALTH SCIENCES BUILDING

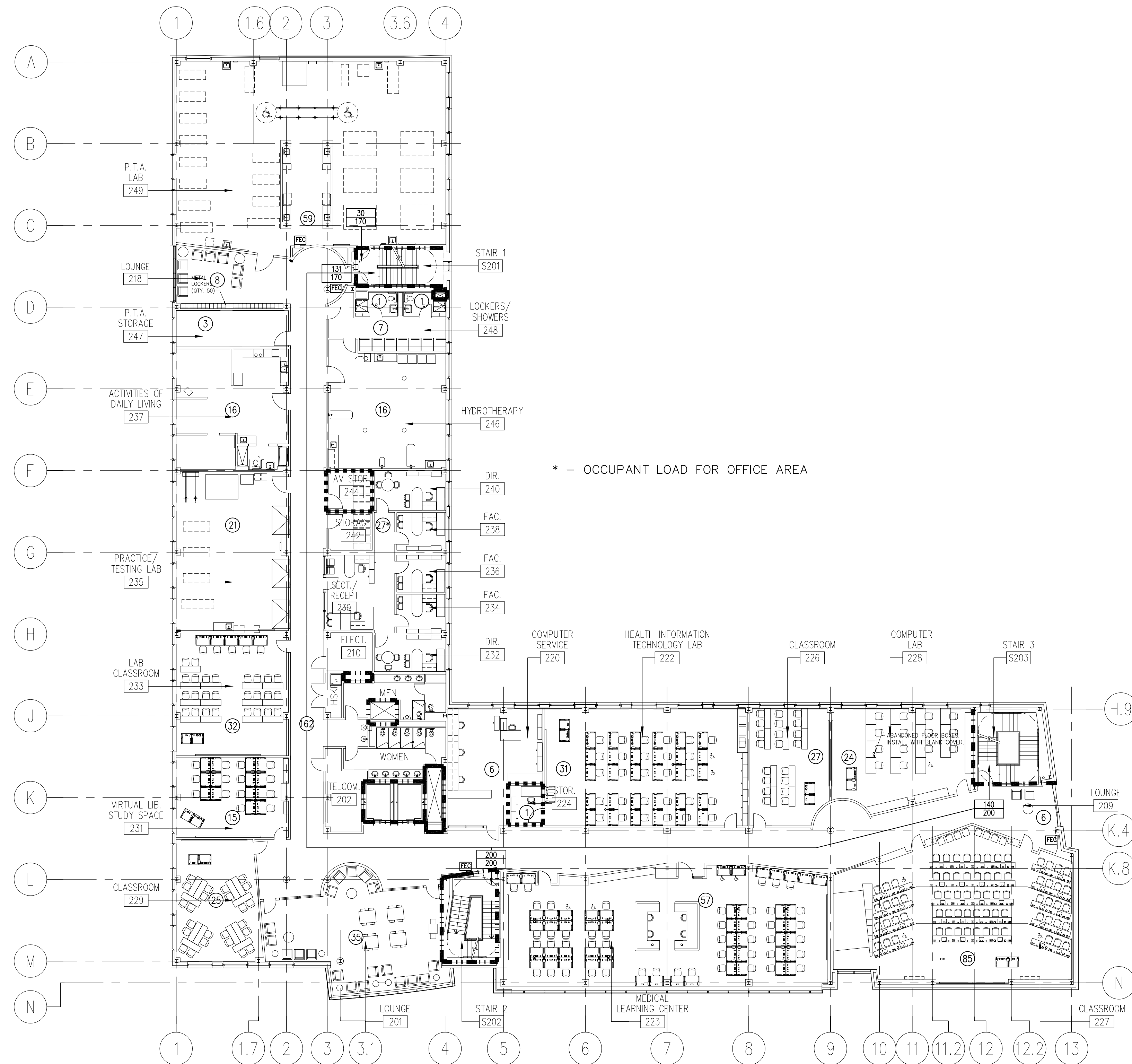
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-977/98-318

PROJECT NO. 134495.01  
DATE: 2/20/02

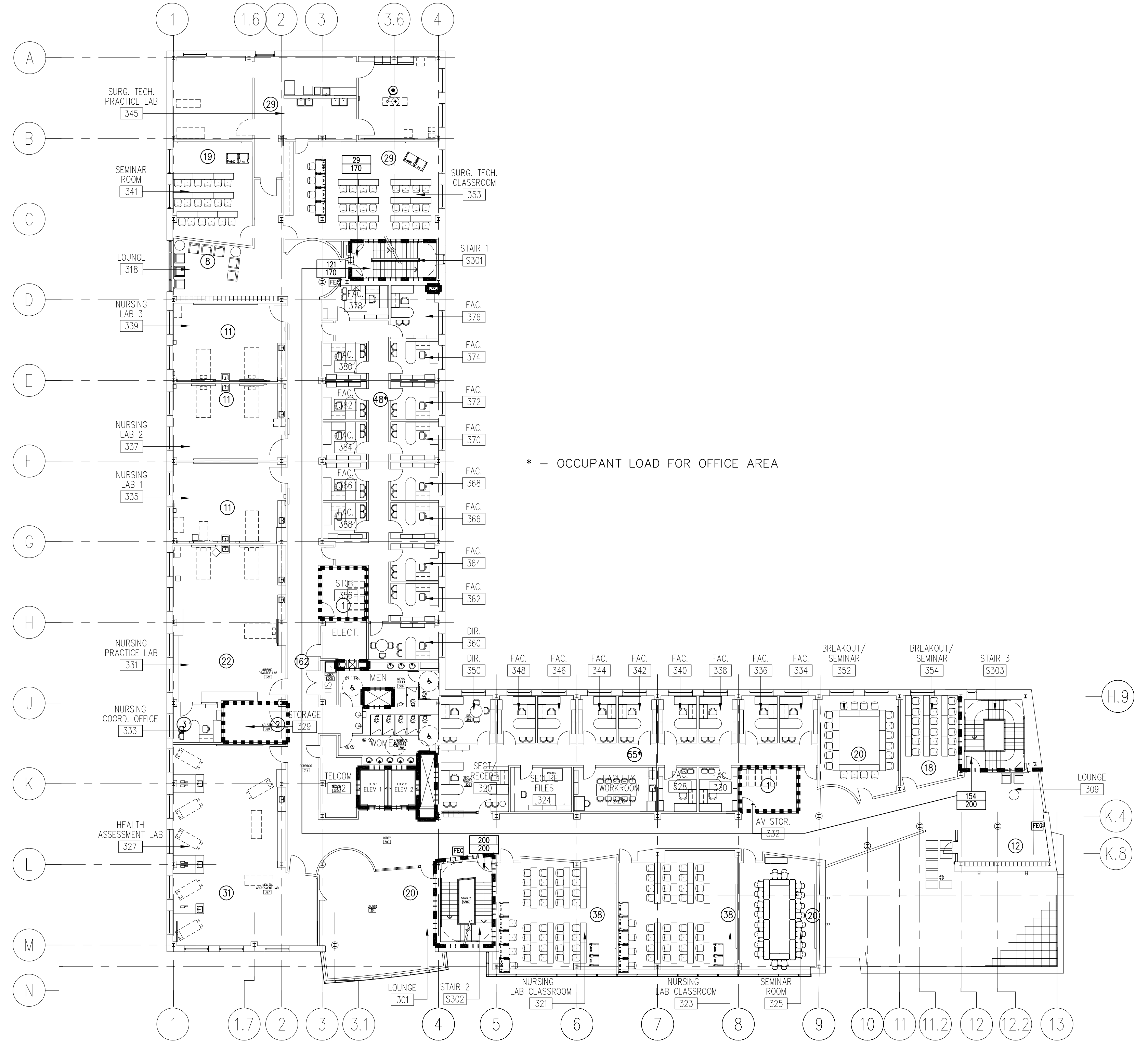
**LS101**

SHEET 1 OF 1

0' 4' 8' 16' 32' 1/16"=1'-0"



\* - OCCUPANT LOAD FOR OFFICE AREA



\* - OCCUPANT LOAD FOR OFFICE AREA

G1 SECOND FLOOR PLAN

1/16"=1'-0"

G11 THIRD FLOOR PLAN

1/16"=1'-0"

**INTERIOR FINISH RATINGS:** Numbers in parentheses reference IBC Bldg. Code sections.

Element	Chapter 8	Design	Remarks
Floor Finish	II	DOC FF-1	(804.5 Exception)
Exits, Exit Access	DOC FF-1	DOC FF-1	(804.5)
All Other Areas			
Interior Wall & Ceiling	B	A	(Table 803.4)
Exits and Passageways	C	A	(Table 803.4)
Exit Access Corridors	C	A	(Table 803.4)
Rooms & Spaces	C	A	(Table 803.4)
Wall Trim	C	C	(805.5)
<10% Wall & Clg. Area			

Classification (Wall & Ceiling Material) per ASTM E84

Class	Flame Spread Rating
A	0-25
B	26-75
C	76-200

Classification (Floor Material) per NFPA 253

Class	Watts/Sq. Centimeter
I	0.45
II	0.22

No material with smoke developed rating >450 is permitted in this project.

THROUGH-PENETRATION FIRESTOP SYSTEMS SHALL COMPLY WITH THOSE LISTED IN THE UNDERWRITERS LABORATORIES INC. DIRECTORY: FIRERESISTANCE - VOLUME 2 AND SHALL MEET OR EXCEED THE RESISTANCE RATING OF THE WALL OR FLOOR BEING PENETRATED.

APPLICABLE DESIGNATIONS ARE AS FOLLOWS:

FIRST DESIGNATOR	SECOND DESIGNATOR
F - FLOOR	A - CONC. FLOOR < 5" THICK
W - WALL	B - CONC. FLOOR > 5" THICK
C - FLOOR OR WALL	J - CONC. OR MASONRY WALLS < OR = 8"
	K - CONC. OR MASONRY WALLS > OR = 8"
	L - FRAMED WALLS

- NUMBER DESIGNATIONS**
- 0000-0999 - NO PENETRATING ITEMS
  - 1000-1999 - METALLIC PIPE, CONDUIT OR TUBING
  - 2000-2999 - NONMETALLIC PIPE, CONDUIT OR TUBING
  - 3000-3999 - ELECTRICAL CABLES
  - 4000-4999 - CABLE TRAYS WITH ELECTRICAL CABLES
  - 5000-5999 - INSULATED PIPES
  - 6000-6999 - MISC. ELECTRICAL PENETRANTS SUCH AS BUS DUCTS
  - 7000-7999 - MISC. MECHANICAL PENETRANTS SUCH AS AIR DUCTS
  - 8000-8999 - GROUPINGS OF PENETRATIONS INCLUDING ANY COMBINATION OF ITEMS LISTED ABOVE

ASSEMBLIES FOR FLOOR OR WALL	ASSEMBLIES FOR FLOORS ONLY	ASSEMBLIES FOR WALLS ONLY
C-AJ-(0003-0071)	F-A-(0001-0004)	W-J-(0001-0005)
C-AJ-(1001-1332)	F-A-(1002-1015)	W-J-(1001-1064)
C-AJ-(2001-2276)	F-A-(2001-2052)	W-J-(2001-2066)
C-AJ-(3003-3186)	F-A-(3001-3036)	W-J-(3001-3035)
C-AJ-(4001-4051)	F-A-(4001-4002)	W-J-(4001-4025)
C-AJ-(5001-5137)	F-A-(5001-5012)	W-J-(5001-5051)
C-AJ-(6001-6018)	F-A-6001	W-J-(7001-7027)
C-AJ-(7003-7050)	F-A-(7001-7002)	W-J-(8001-8009)
C-AJ-(8001-8080)	F-A-(8001-8003)	W-L-(0001-0010)
C-BJ-(0001-0019)	F-B-(1003-1008)	W-L-(1001-1197)
C-BJ-(1001-1037)	F-B-(2002-2006)	W-L-(2001-2206)
C-BJ-(2001-2027)	F-B-(3003-3007)	W-L-(3001-3150)
C-BJ-(3002-3020)	F-B-8001	W-L-(4001-4032)
C-BJ-(4001-4024)		W-L-(5001-5108)
C-BJ-(5002-5009)		W-L-(6001-6004)
C-BJ-(8001-8010)		W-L-(7001-7050)
		W-L-(8001-8022)
C-BK-(1003-1005)		
C-BK-(2001-2002)		
C-BK-(3001-3002)		
C-BK-(5001-5002)		

**LIFE SAFETY LEGEND**

- (47) CALCULATED OCCUPANTS
- FEC FIRE EXTINGUISHER
- SMOKE PARTITION CONSTRUCTION AS INDICATED IN PLAN
- ONE HOUR FIRE-RATED WALL/PARTITION CONSTRUCTION AS INDICATED IN PLAN
- TWO HOUR FIRE-RATED WALL/SEPARATION CONSTRUCTION AS INDICATED IN PLAN
- MEDIAN TRAVEL DISTANCE TO AN EXIT (IN FEET)
- 000 NUMBER OF OCCUPANTS
- 111 EXIT CAPACITY
- PATH INTO EXIT

NOTE: ALL SQUARE FOOTAGE NOTATIONS ON FLOOR PLANS ARE GROSS AREA CALCULATIONS.

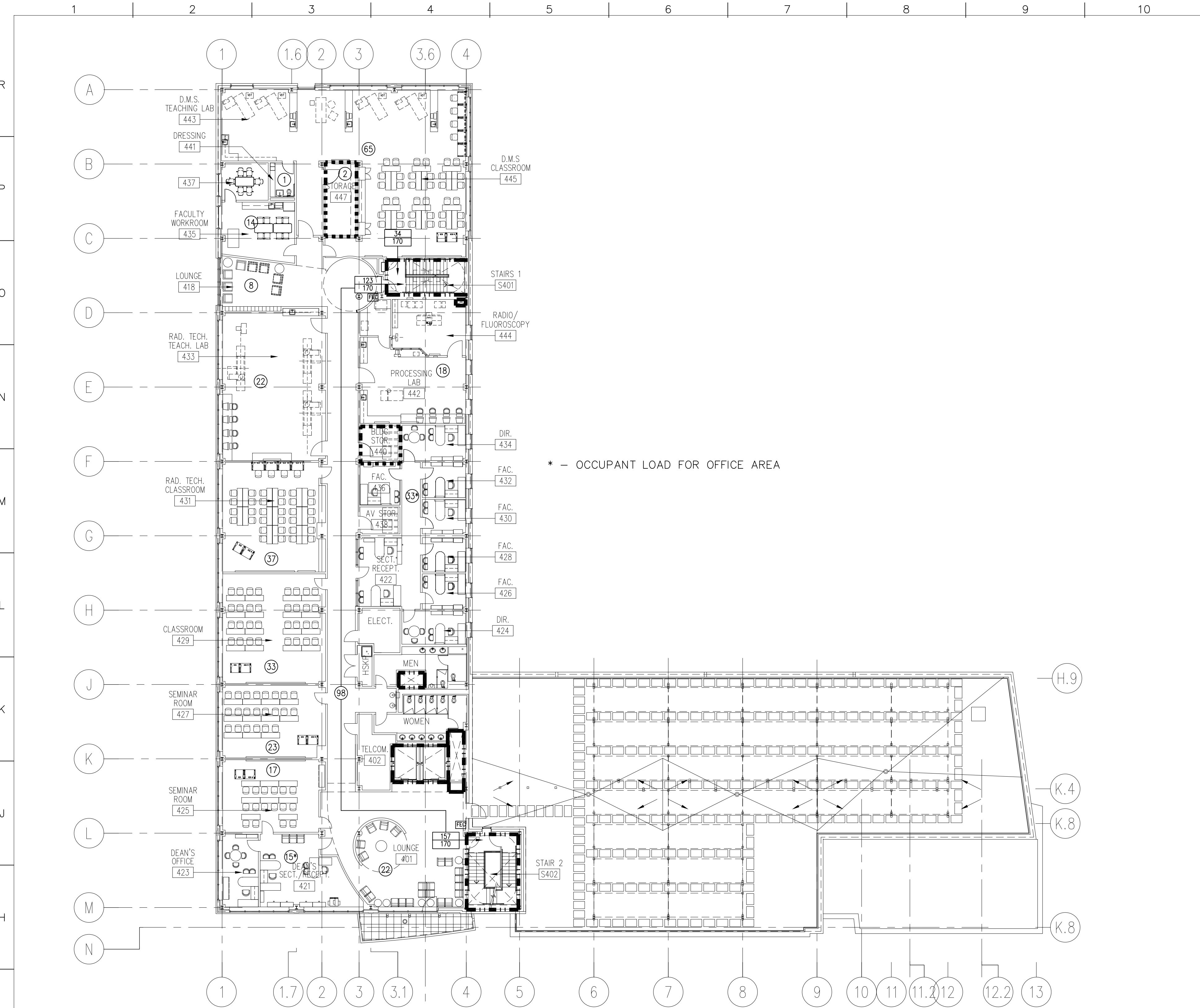
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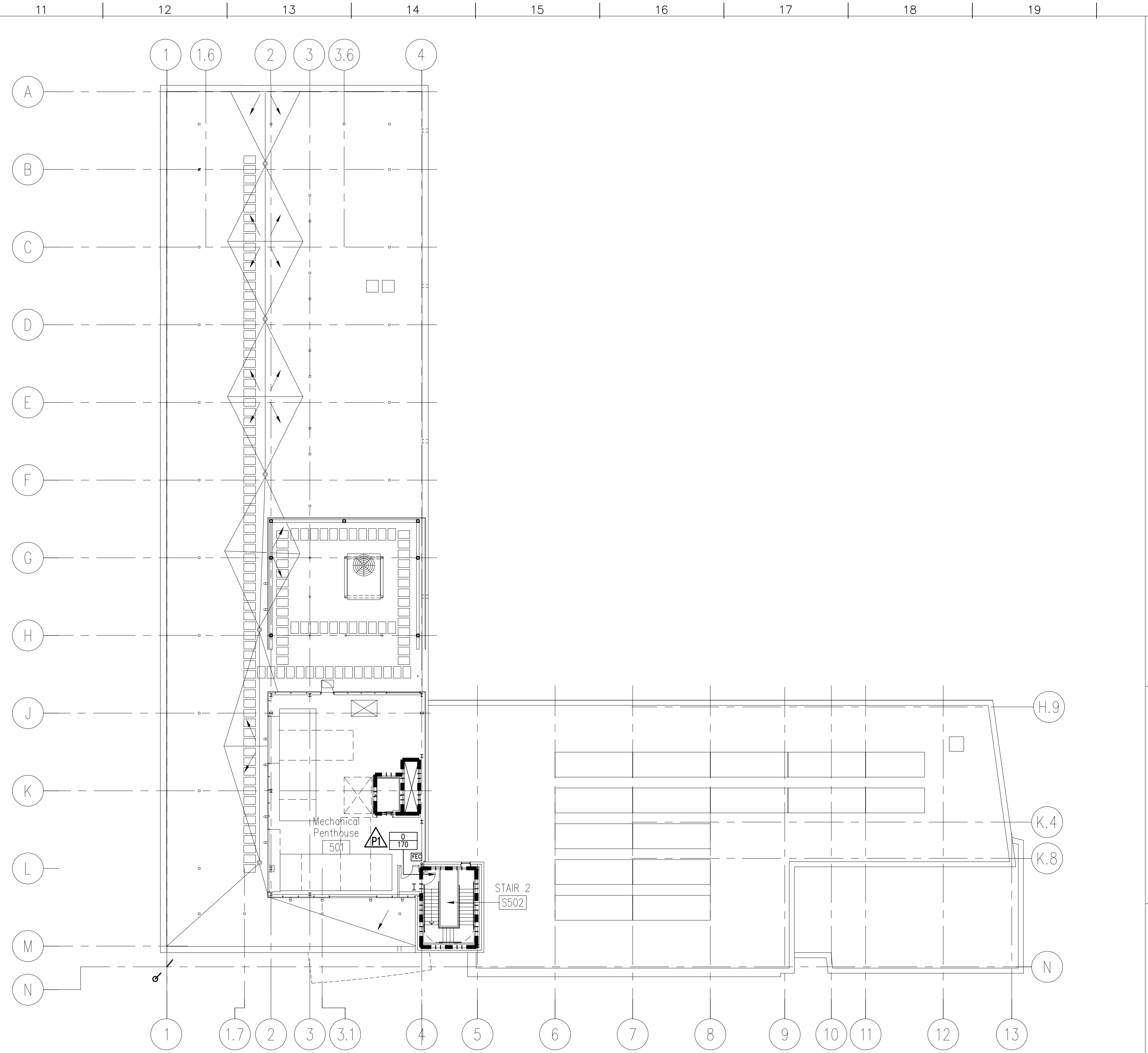
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PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318  
LS102  
SHEET X OF X

PROJECT NO. 34495.01  
DATE: 2/20/02



**G1** FOURTH FLOOR PLAN  
 1/16"=1'-0" A104



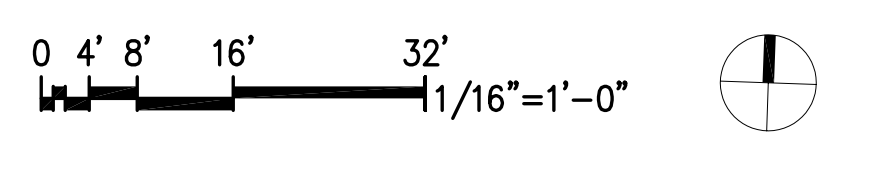
**G11** PENTHOUSE PLAN  
 1/16"=1'-0" A105

**LIFE SAFETY LEGEND**

- (47) CALCULATED OCCUPANTS
- (275) OCCUPANT LOAD PER EXIT
- FEC FIRE EXTINGUISHER
- ..... SMOKE PARTITION CONSTRUCTION AS INDICATED IN PLAN
- ONE HOUR FIRE-RATED WALL/PARTITION CONSTRUCTION AS INDICATED IN PLAN
- TWO HOUR FIRE-RATED WALL/ SEPARATION CONSTRUCTION AS INDICATED IN PLAN
- (100)--- MEDIAN TRAVEL DISTANCE TO AN EXIT (IN FEET)
- 000 NUMBER OF OCCUPANTS
- 111 EXIT CAPACITY
- PATH INTO EXIT

NOTE: ALL SQUARE FOOTAGE NOTATIONS ON FLOOR PLANS ARE GROSS AREA CALCULATIONS.

no.	revisions/submissions	date



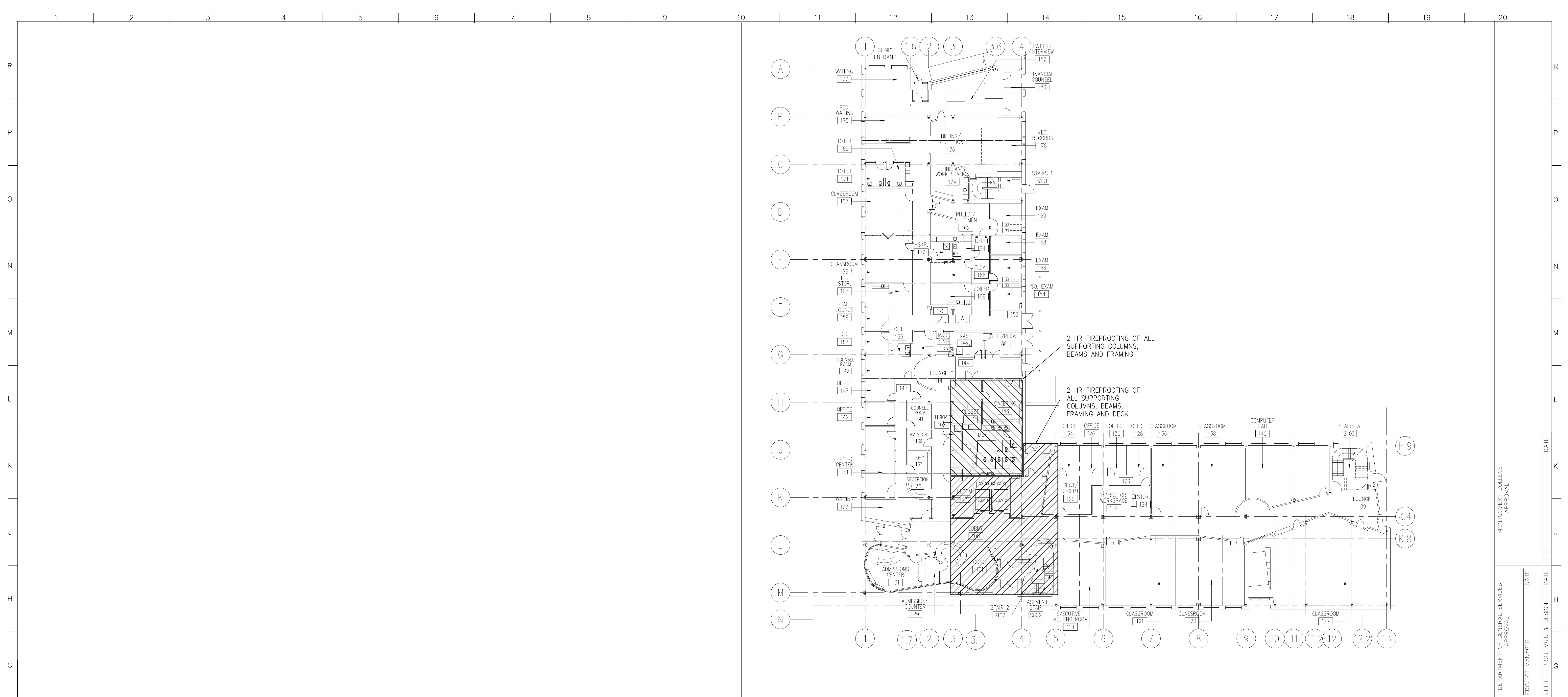
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

Life Safety Plans  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

MONTGOMERY COLLEGE APPROVAL

PROJECT NO. 44499.01  
 DATE: 2/20/02  
**LS103**  
 SHEET X OF X



F1 NOT USED

F11 FIRST FLOOR PLAN

1/16"=1'-0" A101

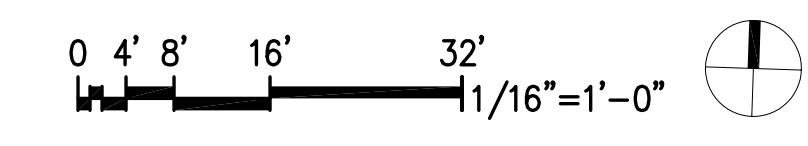
MONTGOMERY COLLEGE APPROVAL	
DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE
PROJECT MANAGER	DATE
CHIEF - PROJ. MGT. & DESIGN	DATE
TITLE	DATE

**Fire Proofing Plans**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 PROJECT # CC-01-MC-977/98-318

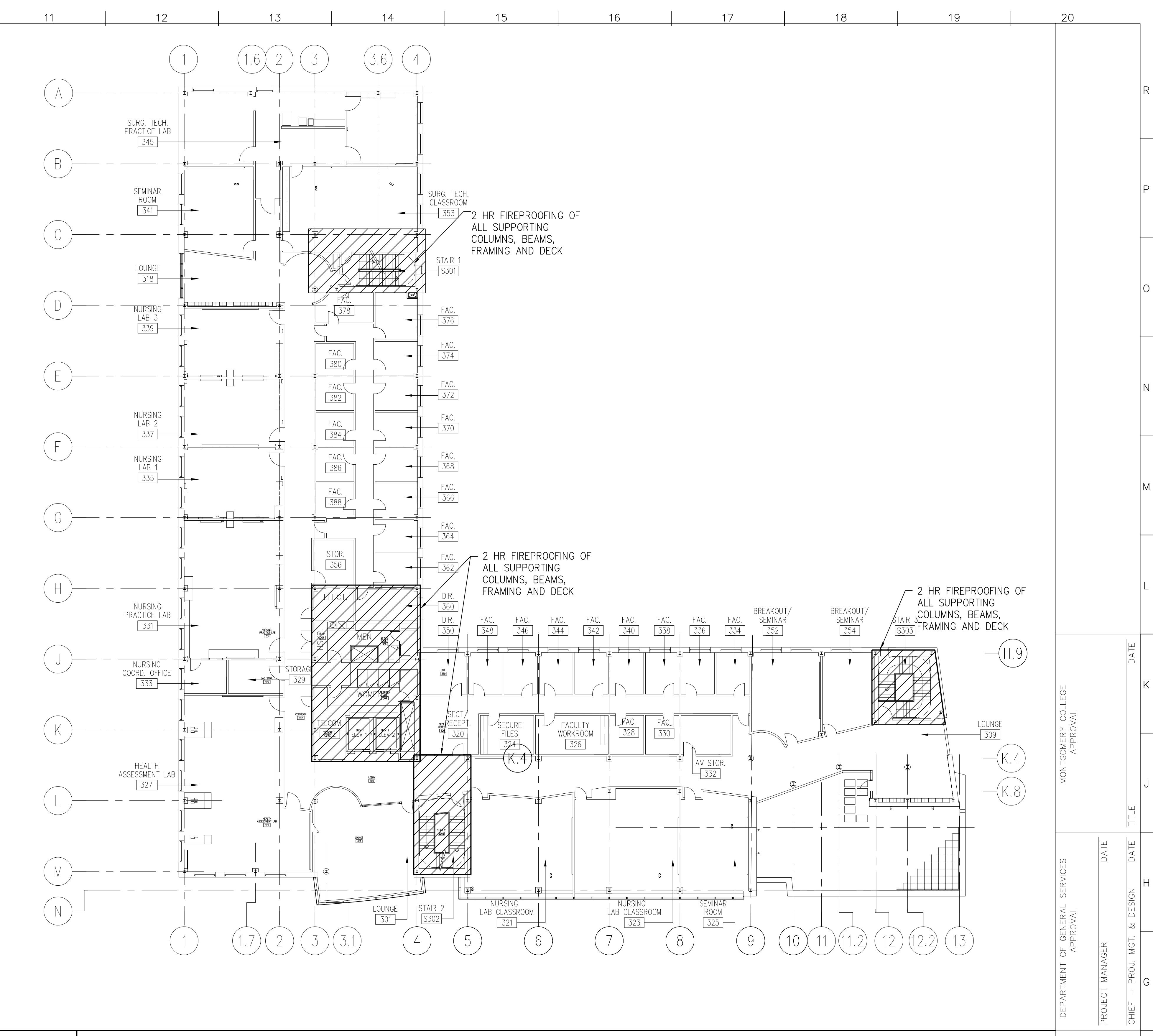
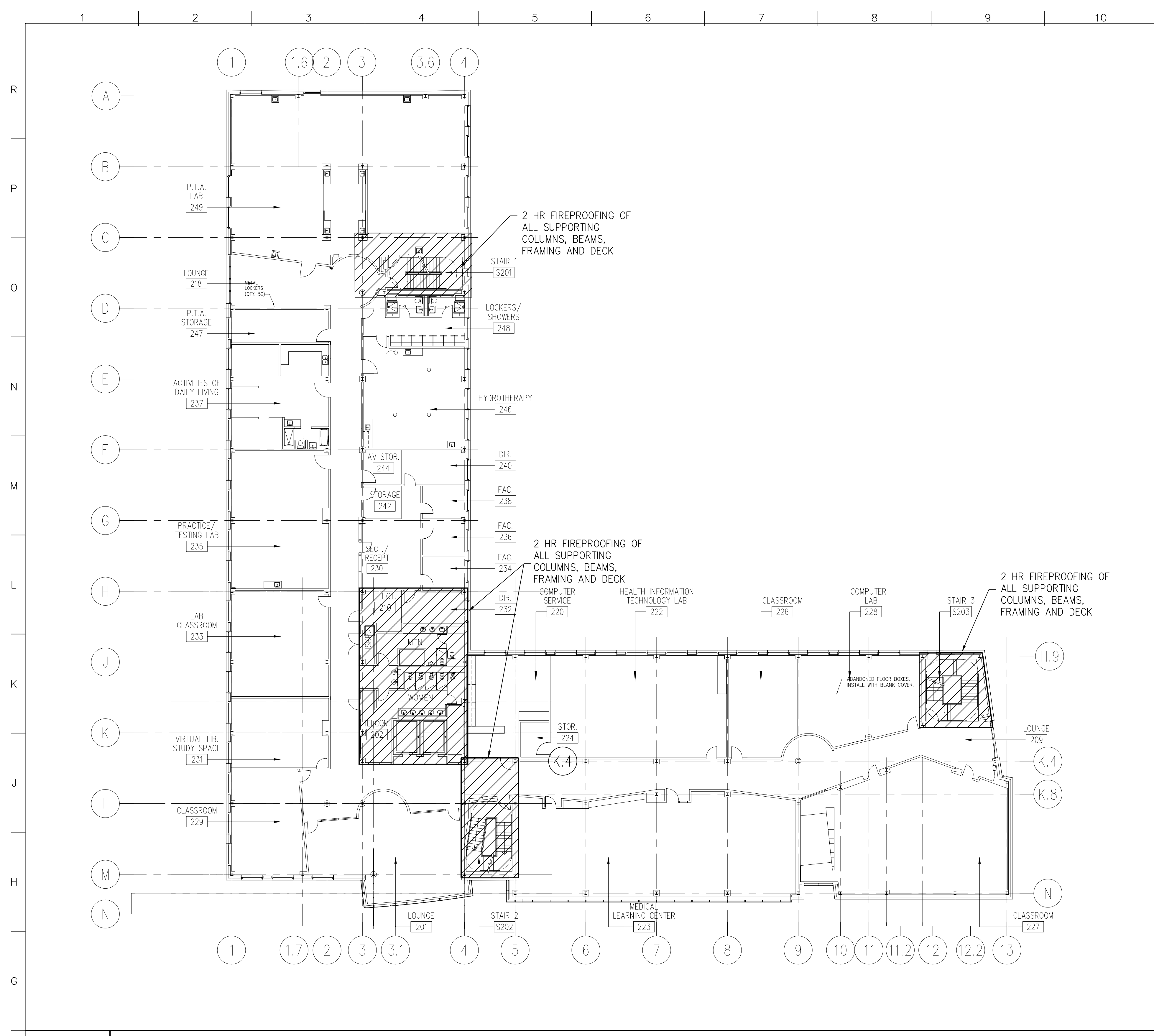
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-977/98-318

PROJECT NO. 44499.01  
 DATE: 2/20/02  
**LS104**  
 SHEET .X OF .X

no.	revisions/submissions	date



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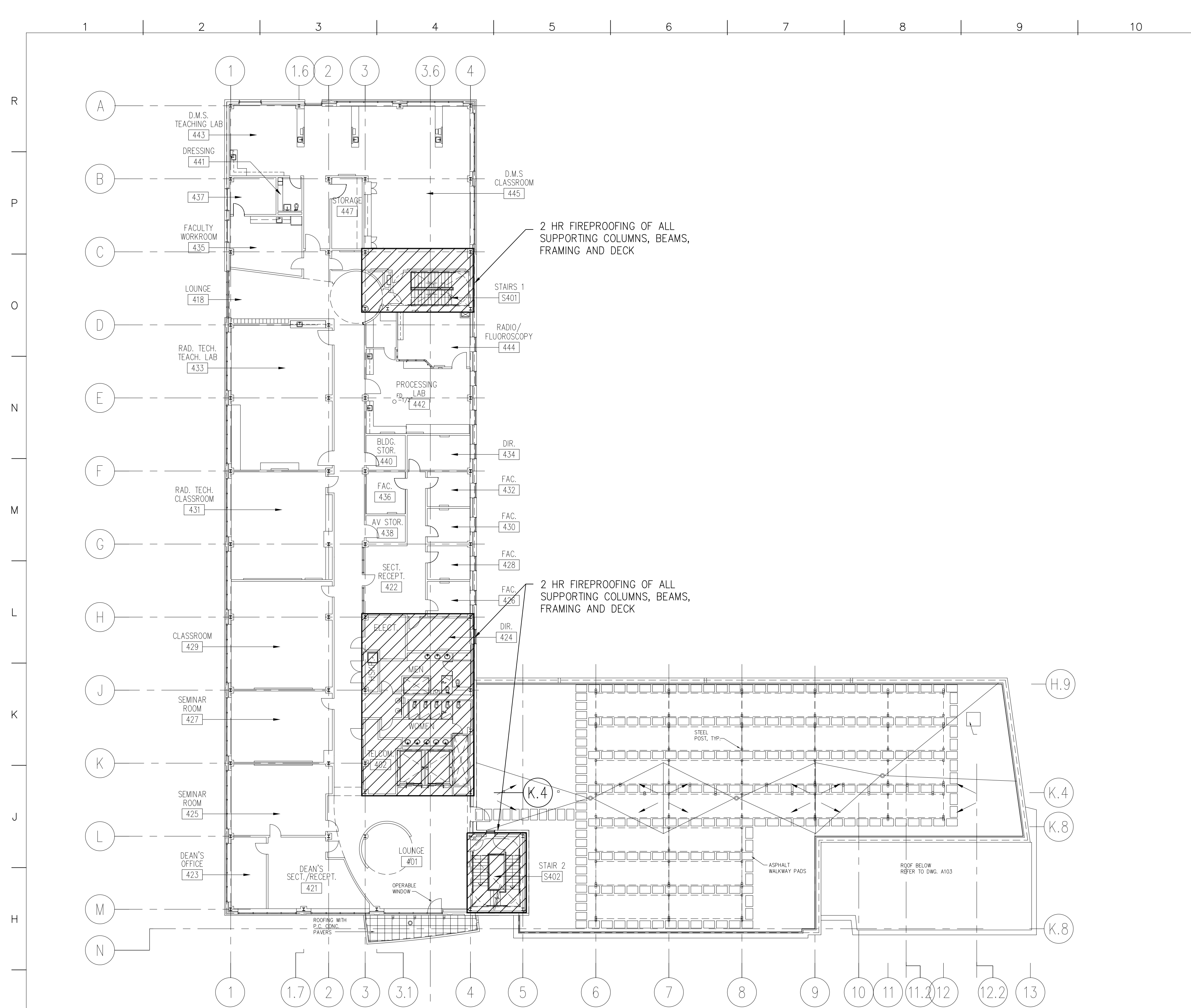


G1 SECOND FLOOR PLAN— FIRE PROOFING PLAN  
 1/16"=1'-0" A102

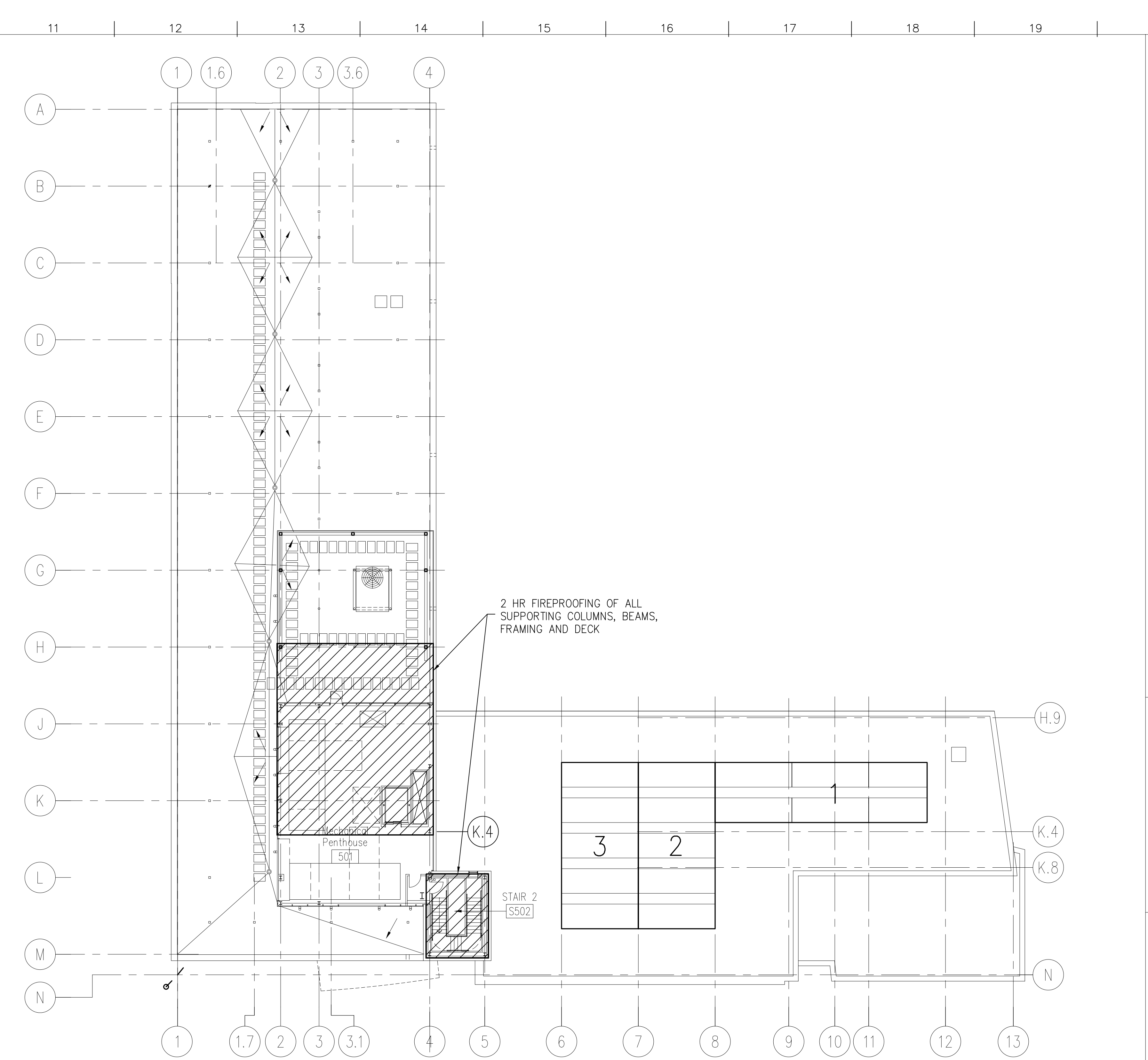
G11 THIRD FLOOR PLAN— FIRE PROOFING PLAN  
 1/16"=1'-0" A103

PROJECT NO. DATE: 2/20/02 <b>LS105</b> SHEET X OF X	HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC 97/98-318	<b>Fire Proofing Plans</b> MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland	DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER _____ DATE _____ CHIEF - PROJ. MGT. & DESIGN _____ DATE _____ MONTGOMERY COLLEGE APPROVAL _____ DATE _____																				
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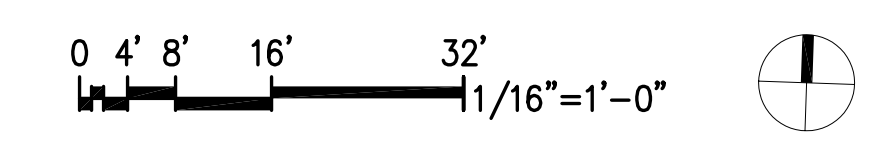


**G1** FOURTH FLOOR PLAN— FIRE PROOFING PLAN  
 1/16"=1'-0" A104



**G11** PENTHOUSE PLAN— FIREPROOFING PLAN  
 1/16"=1'-0" A105

no.	revisions/submissions	date



PROJECT NO. 34495.01  
 DATE: 2/20/02  
**LS106**  
 SHEET X OF X

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**Fire Proofing Plans**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE
PROJECT MANAGER	DATE
CHIEF - PROJ. MGT. & DESIGN	DATE
TITLE	DATE

MONTGOMERY COLLEGE APPROVAL

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DWG. NO.	DRAWING TITLE
P001	SYMBOLS, ABBREVIATIONS, NOTES AND SCHEDULES.
P002	DETAILS AND PIPING DIAGRAMS
P100	BASEMENT FLOOR PLAN-PLUMBING
P101	FIRST FLOOR PLAN-PLUMBING
P102	SECOND FLOOR PLAN-PLUMBING
P103	THIRD FLOOR PLAN-PLUMBING
P104	FOURTH FLOOR PLAN-PLUMBING
P105	PENTHOUSE/ROOF PLAN-PLUMBING
P200	ENLARGED PART PLANS-PLUMBING
P201	ENLARGED PART PLANS-PLUMBING
P202	ENLARGED 1st FLOOR CLINIC PLAN-PLUMBING
P203	ENLARGED 4th FLOOR PLAN-PLUMBING
P300	SANITARY WASTE RISER DIAGRAM
P301	SANITARY WASTE RISER DIAGRAM
P302	STORM RISER DIAGRAM
P303	DOMESTIC WATER RISER DIAGRAM
P304	RISER DIAGRAM

- ### PLUMBING GENERAL NOTES
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT LOCAL CODES, W.S.S.C. AND PROJECT SPECIFICATIONS.
  - PLUMBING CONTRACTOR SHALL VERIFY ALL INVERTS PRIOR TO CONSTRUCTION. COORDINATE SEWER AND WATER CONNECTIONS WITH APPROPRIATE AGENCY. INFORM ARCHITECT OF ANY DISCREPANCIES WHEN CONNECTING THE NEW SEWER LATERALS.
  - PLUMBING CONTRACTOR SHALL COORDINATE ALL PIPING WITH MECHANICAL, ELECTRICAL, ARCHITECTURAL, AND STRUCTURAL TRADES, PRIOR TO CONSTRUCTION TO AVOID INTERFERENCE.
  - PROVIDE ACCESS PANELS FOR ALL CONCEALED VALVES, SHOCK ABSORBERS, TRAP PRIMERS, ETC.
  - PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL P-TRAPS FOR FLOOR DRAINS LOCATED IN MECHANICAL ROOMS, PUBLIC RESTROOMS AND OTHER AREAS WHERE TRAP EVAPORATION CAN OCCUR.
  - PLUMBING CONTRACTOR SHALL CONNECT ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS AND UNDER OTHER SECTIONS OF THE SPECIFICATIONS, CONTRACTOR SHALL PROVIDE ALL ITEMS NECESSARY TO COMPLETE THE PLUMBING INSTALLATION.
  - PROVIDE BACKFLOW PROTECTION FOR WATER PIPING IN ACCORDANCE WITH W.S.S.C. AND LOCAL CODES.
  - PROVIDE UNIONS FOR ALL PIPING CONNECTIONS TO EQUIPMENT.
  - ALL PLUMBING FIXTURES AND EQUIPMENT SHALL BE IN COMPLIANCE WITH CURRENT APPLICABLE ENERGY CONSERVATION CODES.

### EQUIPMENT SCHEDULE

ITEM	DESCRIPTION
HOT WATER EXPANSION TANK	STEEL ASME DESIGNED AND CONSTRUCTED; PRE-CHARGED AIR CHAMBER; STAINLESS STEEL SYSTEM CONNECTION; HEAVY DUTY BUTYL DIAPHRAGM; RIGID POLYPROPYLENE LINER; AIR CHARGE AT FACTORY, REMAINING AIR CHARGE IN FIELD TO TOTAL OF 70 PSI; AMTROL MODEL NO. AST-12 OR APPROVED EQUAL, 2.4 MAXIMUM ACCEPTABLE GALLONS, 7.6 TOTAL GALLONS
DOMESTIC WATER BOOSTER PUMP	DUPLEX DOMESTIC WATER BOOSTER PUMP SHALL HAVE A CONSTANT SYSTEM PRESSURE OF 78 PSI WHILE SUPPLYING A FLOW RATE OF 0 TO 150 GPM WITH A MINIMUM SUCTION PRESSURE OF 30 PSI. EACH MOTOR SHALL BE PREMIUM EFFICIENCY AND RATED FOR 50 % OF THE SYSTEM REQUIREMENTS AND PROVIDE 75 GPM AT 112 FEET OF HEAD, 5 HP, 480 VOLTS, THREE PHASE. THE DOMESTIC WATER SYSTEM SHALL BE A SINGLE PACKAGE AS MANUFACTURED BY "AMES-MESSCO" OR REVIEWED EQUAL.
FIRE PUMP	FIRE PUMP SHALL BE A HORIZONTAL SPLIT CASE, BRONZE FITTED, CENTRIFUGAL TYPE, HAVING A DESIGN CAPACITY OF 500 G.P.M. AT 208 FOOT HEAD WITH A MINIMUM SUCTION PRESSURE OF 30 P.S.I. WHEN OPERATING AT 3500 R.P.M. FIRE PUMP SHALL BE U.L. LISTED AND F.M. APPROVED AS MANUF. BY "PEERLESS PUMP" OR REVIEWED EQUAL.  FIRE PUMP MOTOR SHALL BE AN APPROVED HORIZONTAL OPEN DRIPPROOF, BALL BEARING, SQUIRREL CAGE INDUCTION DESIGN, 500 G.P.M. AT 208 FOOT HEAD (90 P.S.I.), 40 H.P., 480 VOLT, THREE PHASE.  FIRE PUMP CONTROLLER SHALL BE WYE-DELTA, OPEN CIRCUIT TRANSITION, 4200 A.I.C. FIRE PUMP CONTROLLER SHALL BE AS MANUFACTURED BY "FIRETROL" OR REVIEWED EQUAL.
JOCKEY PUMP	JOCKEY PUMP SHALL HAVE A CAPACITY OF 5 G.P.M. AT 208 FOOT HEAD (90 P.S.I.), 1.5 H.P., 480 VOLT, THREE PHASE. JOCKEY PUMP SHALL BE AS MANUFACTURED BY "BURKS" OR REVIEWED EQUAL.  JOCKEY PUMP CONTROLLER SHALL BE AS MANUFACTURED BY "FIRETROL" WITH RUNNING PERIOD TIMER AND PUMP RUNNING LIGHT.
SMALL CAPACITY STORAGE WATER HEATER FOR DOMESTIC HOT WATER, DUPLEX SYSTEM	EACH HEATER SHALL BE RATED FOR 200 G.P.H. RECOVERY AT 80° F TEMPERATURE RISE, BOILER INPUT WATER TEMPERATURE AT 190° F, MINIMUM AT 7 G.P.M. (TYPICAL OF TWO) HEATERS SHALL BE MANUFACTURED BY "AMTROL" MODEL WH-7C-DW WITH DOUBLE WALL HEAT EXCHANGER.
HOT WATER RECIRC. PUMP	HOT WATER RECIRCULATING PUMP SHALL BE 10 G.P.M. AT 25 FOOT HEAD, 3/4 H.P., 480 VOLT, 3 PHASE. HOT WATER RECIRCULATING PUMP SHALL BE AS MANUFACTURED BY "BELL & GOSSETT" MODEL PD-37-T OR REVIEWED EQUAL.
SIMPLEX SEWAGE EJECTOR	SIMPLEX SUBMERSIBLE SEWAGE EJECTOR SHALL HAVE A CAPACITY OF 15 G.P.M. AT 25 FOOT HEAD, 1 H.P., 460 VOLT, THREE PHASE. PROVIDE WITH CONTROL PANEL, MERCURY FLOAT SWITCHES, HIGH WATER ALARM AND 30" DIAMETER BY 5'-0" DEEP BASIN WITH GAS TIGHT COVER. SIMPLEX SEWAGE EJECTOR SHALL BE MANUFACTURED BY "WEL" SERIES 2400 OR REVIEWED EQUAL. MOTORS SHALL BE PREMIUM EFFICIENCY.
SIMPLEX SUMP PUMP	
VACUUM SYSTEM	BASIS OF DESIGN OR REVIEWED EQUAL INCLUDES AN 80 GALLON RECEIVER TANK, 1 1/2 H.P., 1800 R.P.M., OIL LESS TYPE PUMP WITH SELF LUBRICATING VANES, WITH 5 CFM CAPACITY AT 19" HG FOR A TOTAL SYSTEM OF CFM. PUMP & MOTOR TO BE TANK MOUNTED. PROVIDE WITH NEMA 12 U.L. LABELED CONTROL PANEL FOR AUTOMATIC ON/OFF OPERATION. PROVIDE WITH RUNTIMER, MINIMUM RUN TIMER, VACUUM GAUGE, MOTOR STATER AND OVERLOAD PROTECTION 460 VOLTS, THREE PHASE.

- ### FIRE PROTECTION GENERAL NOTES
- NEW INSTALLATION SHALL INCLUDE A HYDRAULICALLY DESIGNED FIRE STANDPIPE/SPRINKLER SYSTEM. ALL AREAS SHALL BE PROTECTED WITH WET PIPE SYSTEM. BUILDING SHALL BE FULLY SPRINKLERED.
  - HAZARD CLASSIFICATION SHALL BE LIGHT AND ORDINARY, SEE SPECIFICATIONS. PERFORM ALL WORK IN ACCORDANCE WITH 2000 INTERNATIONAL BUILDING CODE, AND MOST RECENT NFPA 13, 14, 20, 24, AND 101.
  - FIRE SPRINKLER PIPING SHALL BE EXTENDED FROM PRESSURIZED STANDPIPES IN STAIRWELLS WITH SEPARATE SPRINKLER CONTROL VALVE UNLESS INDICATED OTHERWISE, SEE DRAWINGS.
  - ALL FIRE PROTECTION SHOP DRAWINGS AND CALCULATIONS SHALL BE DESIGNED STAMPED AND SIGNED BY A LICENSED PROFESSIONAL FIRE PROTECTION ENGINEER WITHIN THE STATE OF MD.
  - ALL FIRE PROTECTION EQUIPMENT, IE. PIPING, VALVES, FITTINGS AND ACCESSORIES, ETC., SHALL BE RATED FOR A MAXIMUM WORKING PRESSURE OF 175 PSI.
  - CONTRACTOR SHALL SCHEDULE ALL WORK, INCLUDING INTERRUPTION OF EXISTING UTILITIES AND CONNECTION TO EXISTING UTILITIES, WITH THE UTILITY COMPANY REPRESENTATIVE PRIOR TO STARTING WORK.
  - ANY DISCREPANCY BETWEEN DRAWINGS AND ACTUAL CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER.
  - MECHANICAL DUCTS SHALL NOT BE DEFORMED OR PENETRATED DUE TO PIPE ROUTING.
  - VALVES SHALL BE INSTALLED IN THE PIPELINES WITHOUT SPRINGING OR FORCING. VALVE STEMS SHALL BE INSTALLED VERTICALLY OR UPWARD FROM THE PIPE WHEN POSSIBLE. INSTALL ALL VALVES IN A MANNER THAT ALLOWS FUTURE REMOVAL AND SERVICE OF THE VALVES.
  - FIRE SPRINKLER MAINS FOR EACH FLOOR SHALL BE EXTENDED FROM STANDPIPES IN STAIRWELLS AND ROUTED IN A "LOOPEO" SYSTEM.
  - FIRE SPRINKLER CONTRACTOR SHALL LOCATE INSPECTORS TEST CONNECTION FOR COMBINED STANDPIPE/SPRINKLER IN ACCORDANCE WITH HYDRAULIC CALCULATIONS, AND SPECIFICATIONS.
  - SIZE OF FIRE PROTECTION PIPING NOT INDICATED ON DRAWINGS SHALL BE DETERMINED BY FIRE SPRINKLER CONTRACTOR.
  - ALL FIRE HOSE VALVES TO BE PROVIDED WITH A 2-1/2" X 1-1/2" REDUCER AND CAP AND CHAIN.

### FIRE HYDRANT DATA (04/26/01)

HYDRANT	FLOW (GPM)	PRESSURE	
		STATIC (PSI)	RESIDUAL (PSI)
F12	1538		
F50		54	41

NOTE: LHG. 431 @ 20 PSI = 2584 GPM

### FIXTURE CONNECTION SCHEDULE

ITEM	DESCRIPTION	WASTE	VENT	C.W.	H.W.	REMARKS
WC-1	WATER CLOSET	4"	2"	1-1/4"		WALL HUNG FLUSH VALVE
WC-2	WATER CLOSET (A.D.A.)	4"	2"	1-1/4"		WALL HUNG FLUSH VALVE
WC-3	WATER CLOSET (A.D.A.)	4"	2"	1/2"		FLOOR MOUNTED TANK TYPE
UR	URINAL (A.D.A.)	2"	1-1/2"	1"		WALL HUNG FLUSH VALVE
LAV-1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	UNDER MOUNT TYPE
LAV-2	LAVATORY (A.D.A.)	1-1/2"	1-1/2"	1/2"	1/2"	UNDER MOUNT TYPE
LAV-3	LAVATORY (A.D.A.)	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG
EWC	ELECT. WATER COOLER (A.D.A.)	1-1/2"	1-1/2"	1/2"		RECESSED TYPE BI-LEVEL
MB	MOP BASIN	3"	2"	1/2"	1/2"	FLOOR MOUNTED
W	WASHER	2"	1-1/2"	1/2"	1/2"	LIGHT COMMERCIAL 40 LB.
KS	KITCHEN SINK W/ DISPOSAL	1-1/2"	1-1/2"	1/2"	1/2"	DOUBLE BOWL STAINLESS STEEL 1/3 H.P. DISPOSAL
PS	PANTRY SINK	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE BOWL STAINLESS STEEL 1/3 H.P. DISPOSAL
LT	LAUNDRY TUB	1-1/2"	1-1/2"	1/2"	1/2"	SINGLE BOWL
BT/SH	BATHTUB W/ SHOWER (A.D.A.)	2"	1-1/2"	1/2"	1/2"	PRESSURE BALANCE, HAND HELD
SH-1	SHOWER (A.D.A.)	1-1/2"	1-1/2"	1/2"	1/2"	PRESSURE BALANCE, HAND HELD
SH-2	SHOWER (A.D.A.)	1-1/2"	1-1/2"	1/2"	1/2"	PRESSURE BALANCE, HAND HELD
ES-1	EXAM SINK/HAND SINK	1-1/2"	1-1/2"	1/2"	1/2"	GOOSENECK W/ WRISTBLADE HANDLES, SELF RIMMING
SS-1	EXAM SINK/SURGEON SINK	1-1/2"	1-1/2"	1/2"	1/2"	GOOSENECK W/ FOOT CONTROLS
SS-2	EXAM SINK/SURGEON SINK	1-1/2"	1-1/2"	1/2"	1/2"	GOOSENECK W/ HANDS FREE SENSOR
HT	HYDRO THERAPY TUB	2"	1-1/2"	1/2"	1/2"	SEE SPEC DIVISION 11
FD-1	FLOOR DRAIN (MECH)	3"	2"			TRAP PRIMER CONNECTION
FD-2	FLOOR DRAIN (TOILET)	3"	2"			CHROME PLATED STRAINER TRAP PRIMER CONNECTION
FD-2	FLOOR DRAIN (SHOWER)	2"	1 1/2"			CHROME PLATED STRAINER
WH	WALL HYDRANT			3/4"		FREEZE PROOF W/ LOCKING WALL BOX
FRS	FLUSHING RIM SINK	4"	2"	1 1/4"		WALL HUNG

- ### NOTES:
- PROVIDE STOP VALVES FOR EACH HOT AND COLD WATER CONNECTIONS TO PLUMBING FIXTURES.
  - PROVIDE COMBINATION BACKFLOW PREVENTER AND VACUUM BREAKER FOR EACH THREADED OUTLET.

### ABBREVIATIONS & SYMBOLS

	SANITARY PIPING	SAN
	STORM PIPING	ST
	VENT PIPING	V
	PUMPED DISCHARGE PIPING (FORCED MAIN)	PD
	DOMESTIC COLD WATER PIPING	CW
	DOMESTIC HOT WATER PIPING (120 DEGREES F.)	HW
	DOMESTIC HOT WATER RECIRCULATING PIPING	HWR
	NATURAL GAS PIPING ( 14" W.C. / )	G
	NON-POTABLE WATER	NP
	GATE VALVE	GATE VALVE
	BALL VALVE	BALL VALVE
	GAS COCK	GAS COCK
	GAS PRESSURE REGULATOR	
	CHECK VALVE	
	UNION	
	WATER HAMMER ARRESTER	HA
	PIPE TURNING UP	
	PIPE TURNING DOWN	
	FLOOR CLEANOUT	FCO
	VERTICAL CLEANOUT (WALL / RISER)	CO
	WALL HYDRANT / HOSE BIBB	WH / HB
	SANITARY RISER DESIGNATION	
	STORM RISER DESIGNATION	
	DOMESTIC WATER RISER DESIGNATION	
	GAS RISER DESIGNATION	
	VENT THRU ROOF	VTR
	FLOOR DRAIN	FD
	INDICATES SEE KEYNOTE #1	
	BALANCING VALVE	
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER	
	ROOF DRAIN	RD
	VACUUM PIPING	
	VACUUM OUTLET	
	TRAP PRIMER	TP
	YARD HYDRANT	YH
	MIXING VALVE	
	PRESSURE REDUCING VALVE	
	PRESSURE GAUGE	

### SPRINKLER PIPING SYMBOLS

	FIRE SPRINKLER EXPRESS DRAIN	D
	FIRE SERVICE/STANDPIPE PIPE	F
	O.S.&Y. VALVE	
	O.S.&Y. VALVE W/ TAMPER SWITCH	O.S.&Y. W/ TS
	STANDPIPE / SPRINKLER RISER	
	RISER WITH SPRINKLER AND FIRE HOSE VALVE	
	FIRE HOSE VALVE	FHV
	SIAMESE FIRE DEPARTMENT CONNECTION	
	FLOW SWITCH	FS
	CONTROL PANEL	
	CHECK VALVE	
	FIRE STANDPIPE RISER DESIGNATION	

### FIRE PROTECTION DESIGN CRITERIA

OCCUPANCY CLASSIFICATION	DESIGN DENSITY (GAL/MIN)/FT <sup>2</sup> (L/MIN/M <sup>2</sup> )	DESIGN AREA FT <sup>2</sup> (M <sup>2</sup> )	HOSE GAL/MIN. (L/MIN.)	DURATION OF SUPPLY MIN.
LIGHT	.10 (4.07)	3000 (278.7)	250 (946.25)	45
ORD-GRP 1	.15 (6.11)	3000 (278.7)	500 (1892.5)	60

no.	revisions/submissions	date

PROJECT NO. 2449501  
DATE: 2/20/02

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

SHEET ... OF ...

SYMBOLS, ABBREVIATIONS, NOTES & SCHEDULES  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

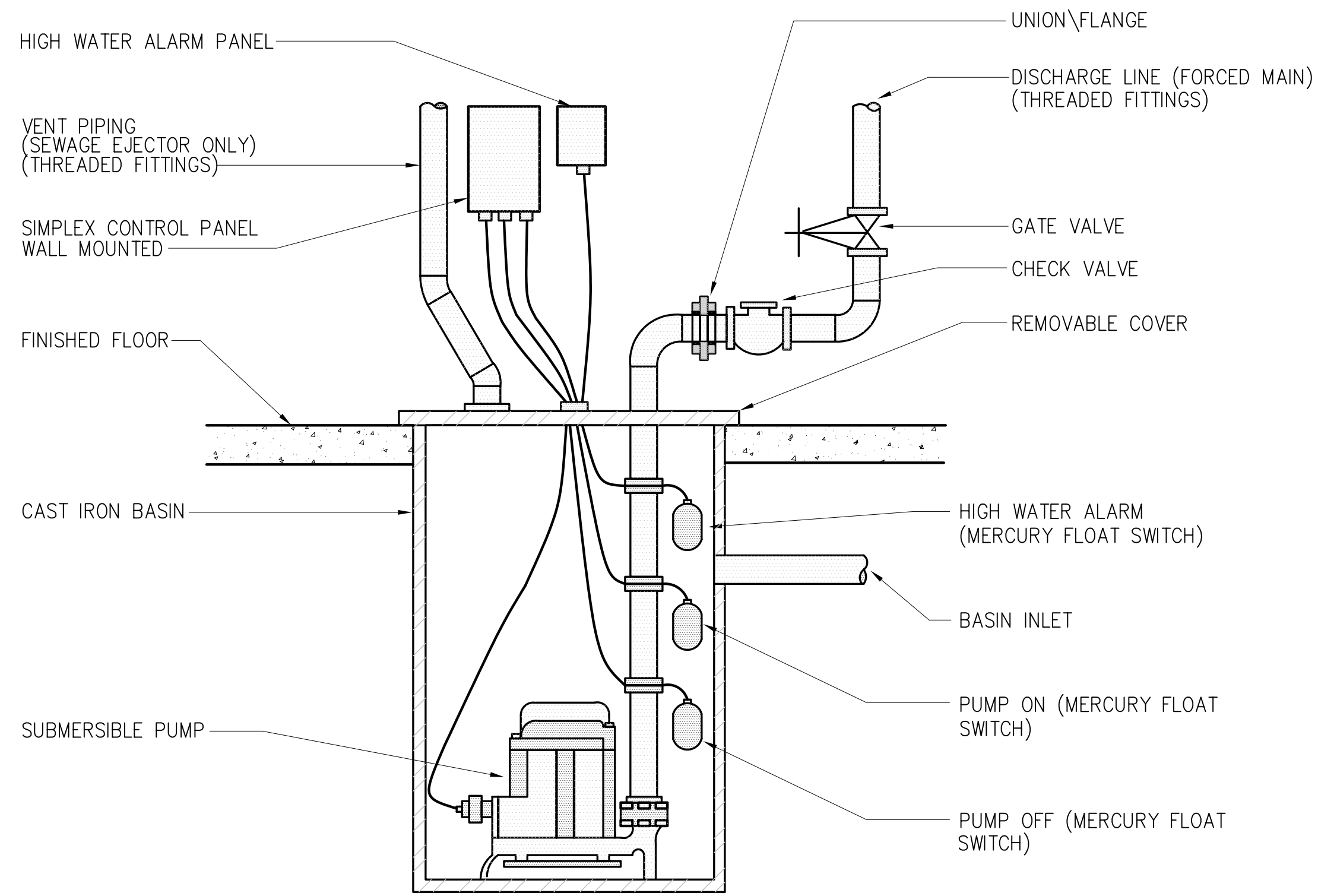
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TITLE

MONTGOMERY COLLEGE APPROVAL

DATE

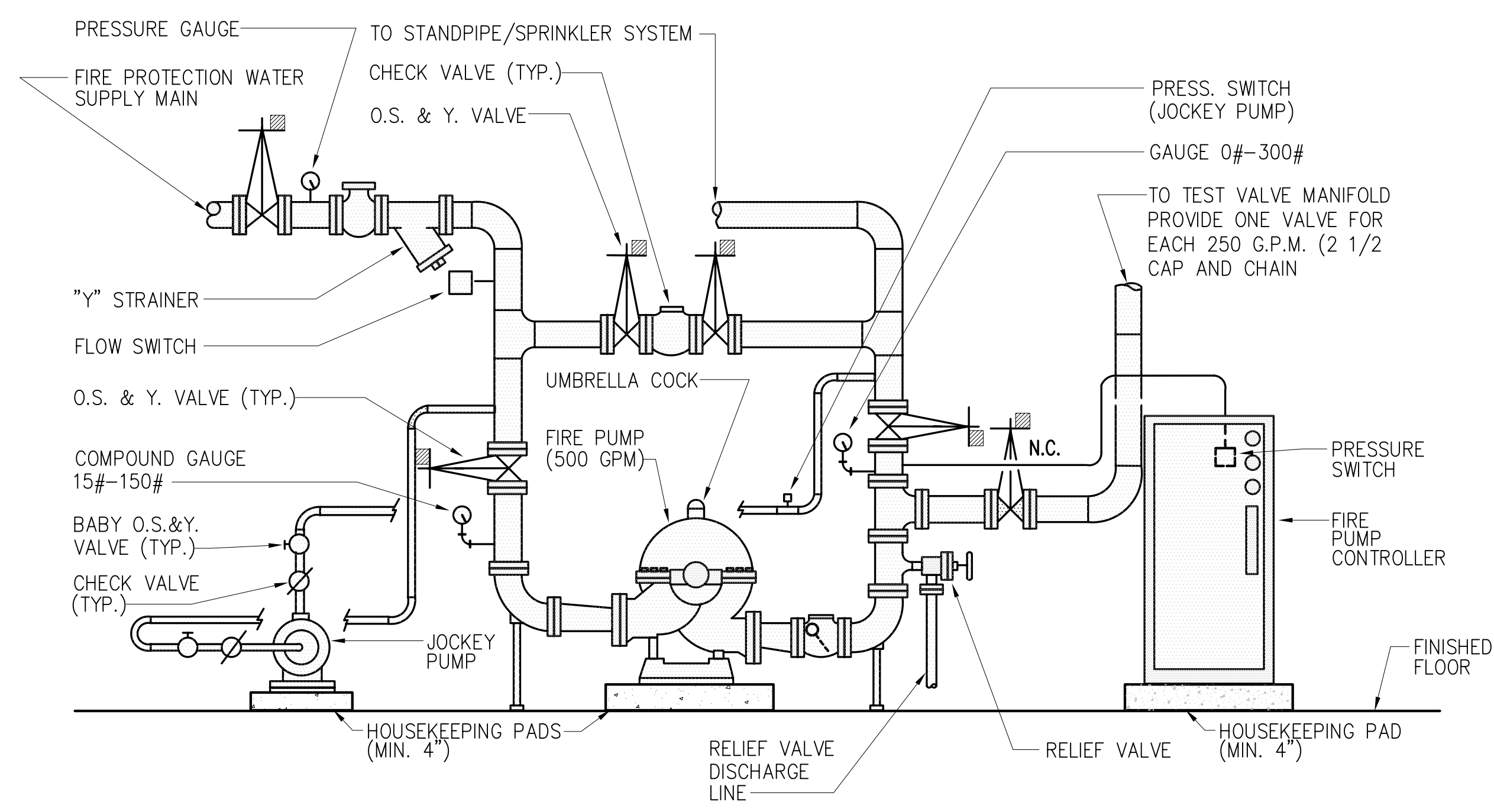
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L3 SIMPLEX SEWAGE / SUMP PUMP DETAIL

NO SCALE

P201

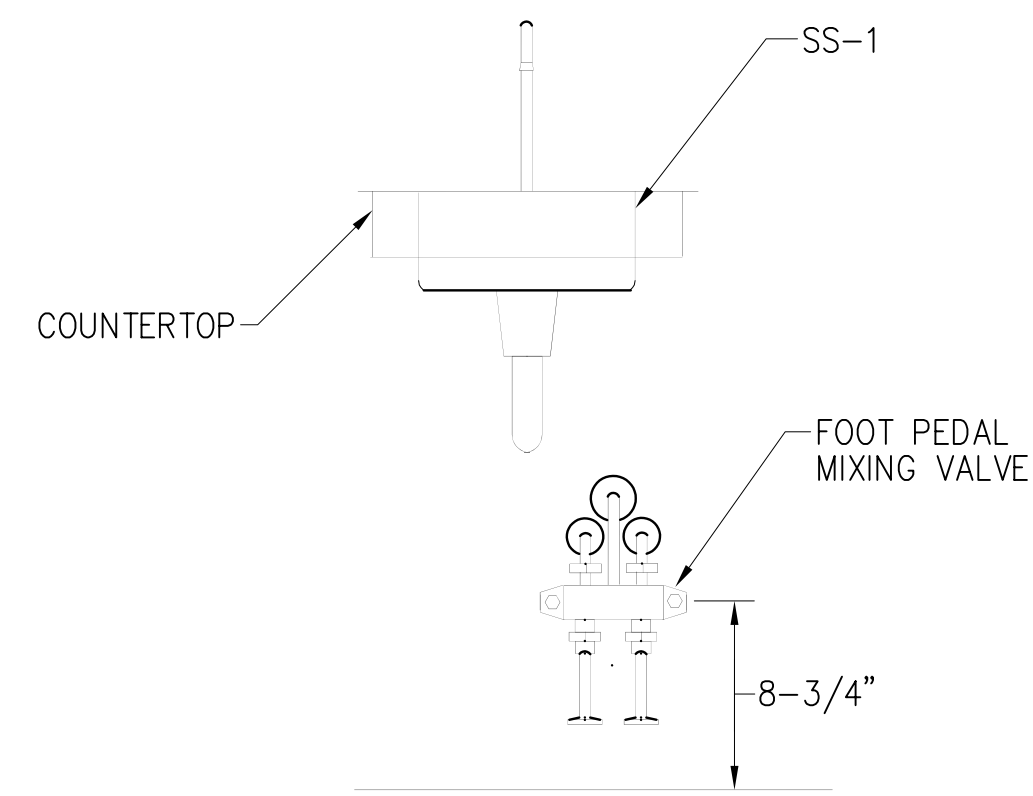


NOTE: ALL O.S. & Y. VALVES SHALL BE PROVIDED WITH TAMPER SWITCHES

L11 FIRE PUMP PIPING DETAIL

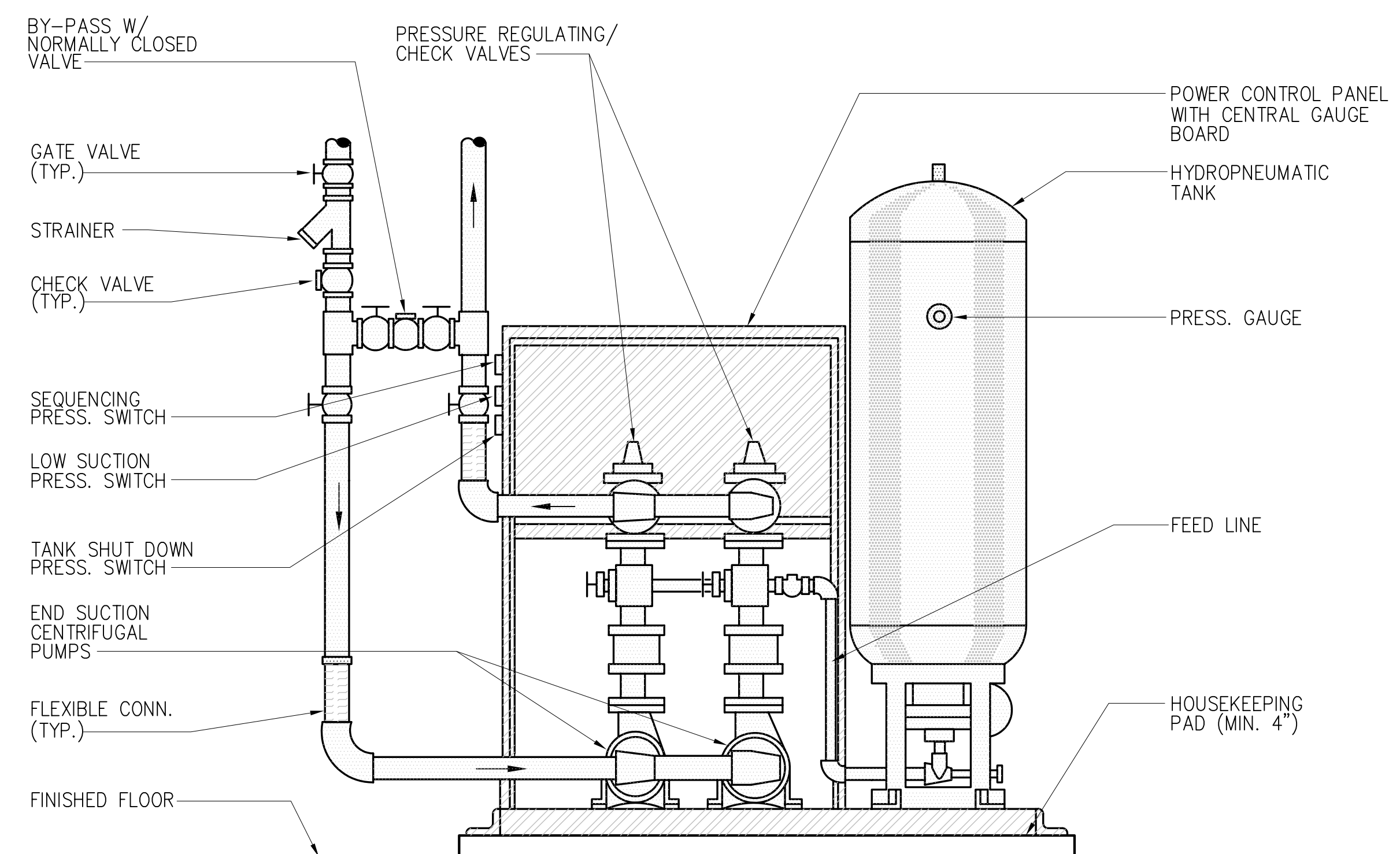
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P201



F3 FOOT PEDAL SINK PIPING DETAIL

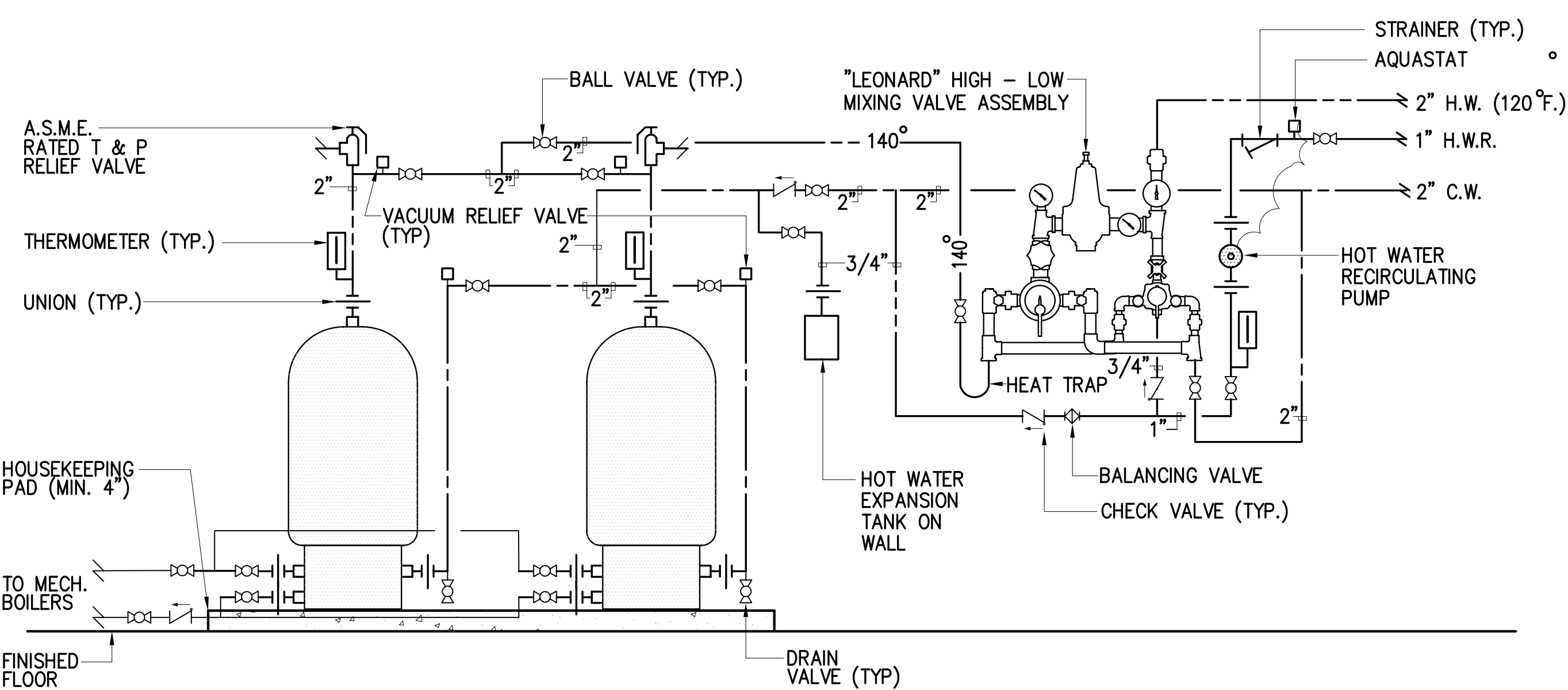
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F11 BOOSTER PUMP PIPING DIAGRAM

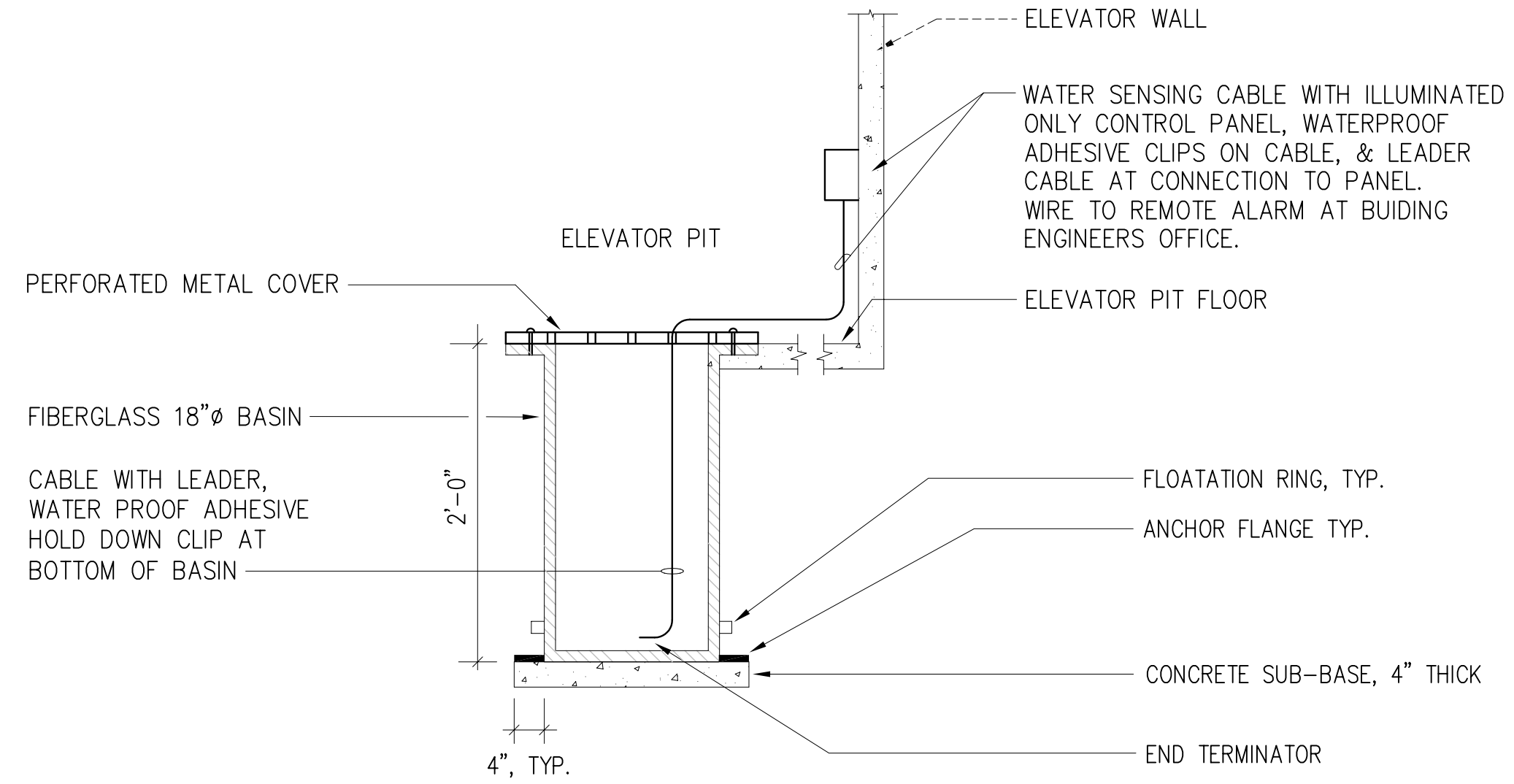
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P201



A3 DOMESTIC HOT WATER PIPING DIAGRAM

NO SCALE



NOTE: 1. INSTALL IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS (BASIS OF DESIGN "RAYCHEM" TRACE-TEK)  
2. CONTRACTOR SHALL MAINTAIN ON-SITE AT ALL TIMES A PORTABLE DEWATERING PUMP (PLUG-IN) 55 GALLON DRUM AND DOLLY AND HOSE FOR PIT MAINTENANCE.

A11 ELEVATOR SUMP PIT ALARM DETAIL

NO SCALE

KEYED NOTES

no.	revisions/submissions	date

MONTGOMERY COLLEGE APPROVAL

DEPARTMENT OF GENERAL SERVICES APPROVAL

DETAILS AND PIPING DIAGRAMS

HEALTH SCIENCES BUILDING

PROJECT NO. 24495.01  
DATE: 2/20/02

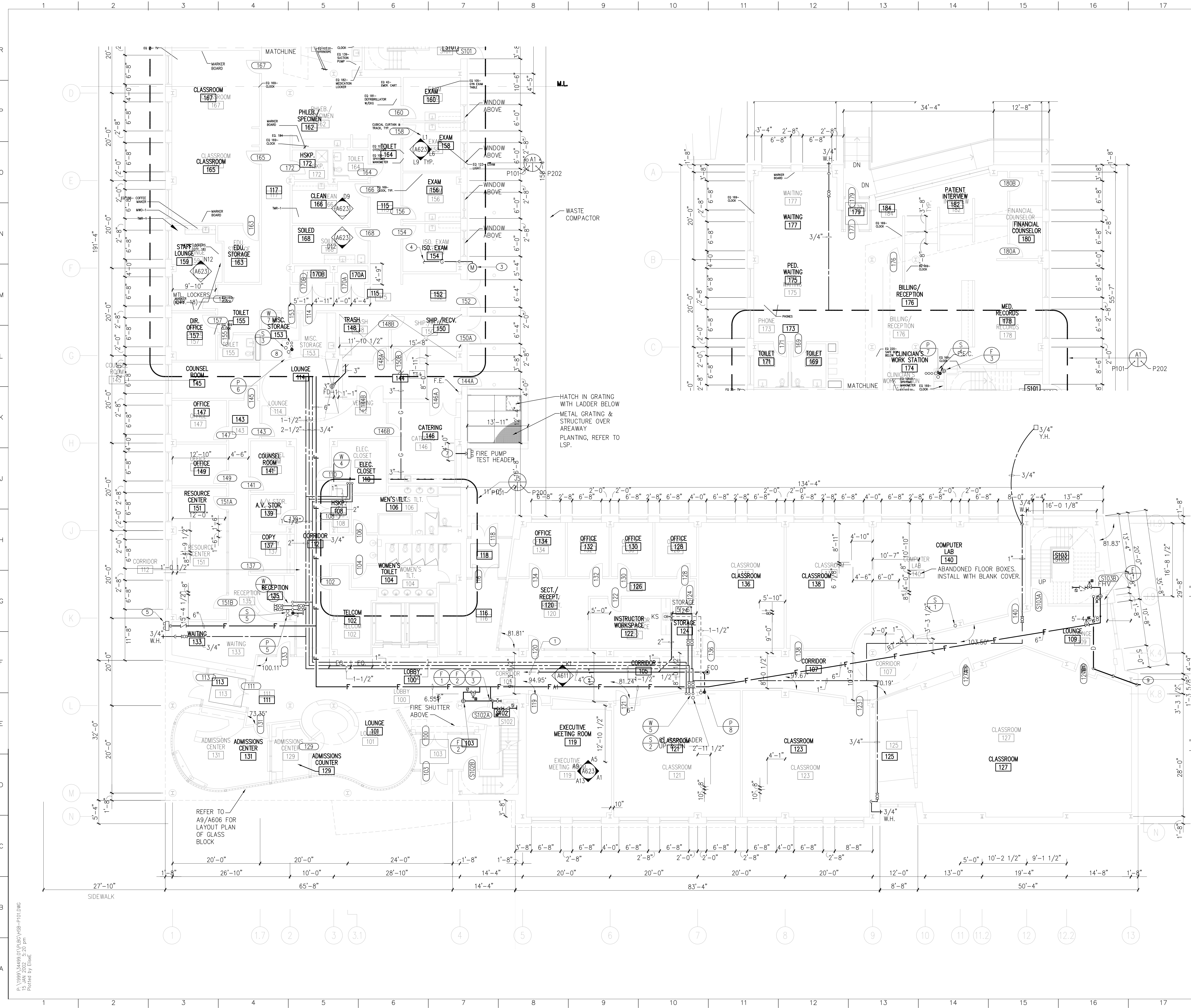
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

P002  
SHEET \_\_\_ OF \_\_\_

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15 JAN 2002 15:19 pm  
Plotted by EliseE

KEYED NOTES

- 1 FOR CONTINUATION, SEE BASEMENT PLAN.
- 2 BELOW FLOOR.
- 3 2" SANITARY DOWN, SEE DWG. P100 FOR CONTINUATION.
- 4 3" GAS PIPING INTO BASEMENT, SEE DWG. P202 FOR CONTINUATION.
- 5 FIRE DEPARTMENT SIAMESE CONNECTION.
- 6 3" STORM FROM ABOVE.
- 7 FIRE PUMP TEST HEADER FOR CONNECTION TO THE FIRE PUMP BY SPRINKLER CONTRACTOR.
- 8 SEE ARCHITECTURAL DWG. A702 FOR WETSTACK COLUMN ENCLOSURE DETAIL.
- 9 SPILL FIRE SPRINKLER EXPRESS DRAIN ON GRADE.



no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**P101**  
 SHEET XX OF XX

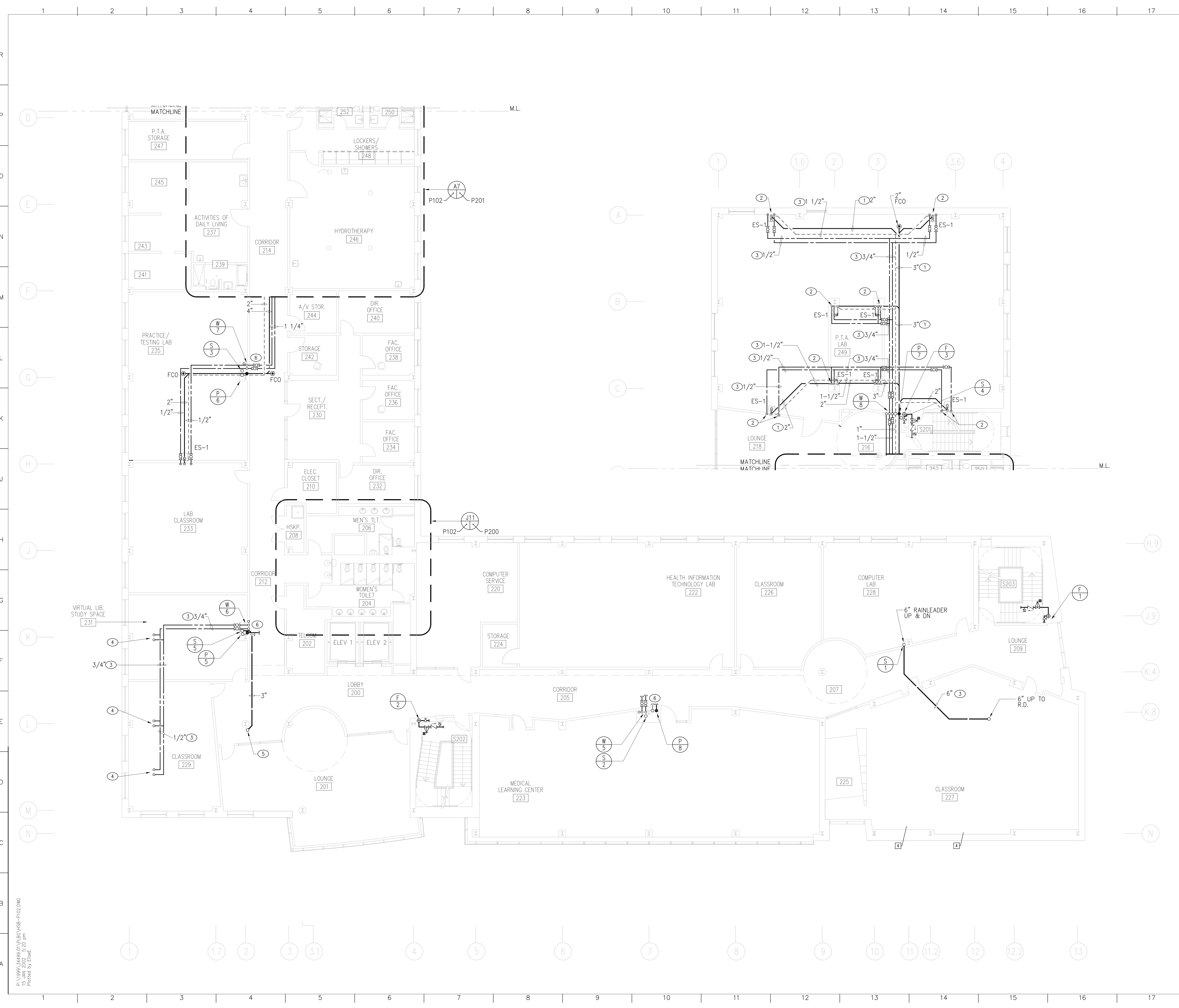
HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

FIRST FLOOR  
 PLAN-PLUMBING  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE

PA 1009A 3/6/99 01/18/02 VBS-P101.DWG  
 15 JAN 2002 5:20 pm  
 Plotted by EliseE



KEYED NOTES

- ① BELOW FLOOR
- ② 1" HOT AND COLD WATER DOWN.
- ③ ABOVE CEILING.
- ④ UP TO SINK ABOVE.
- ⑤ 3" STORM UP.
- ⑥ SEE ARCHITECTURAL DWG. A702 FOR WETSTACK ENCLOSURE DETAIL.

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

SECOND FLOOR  
PLAN-PLUMBING

MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

P102

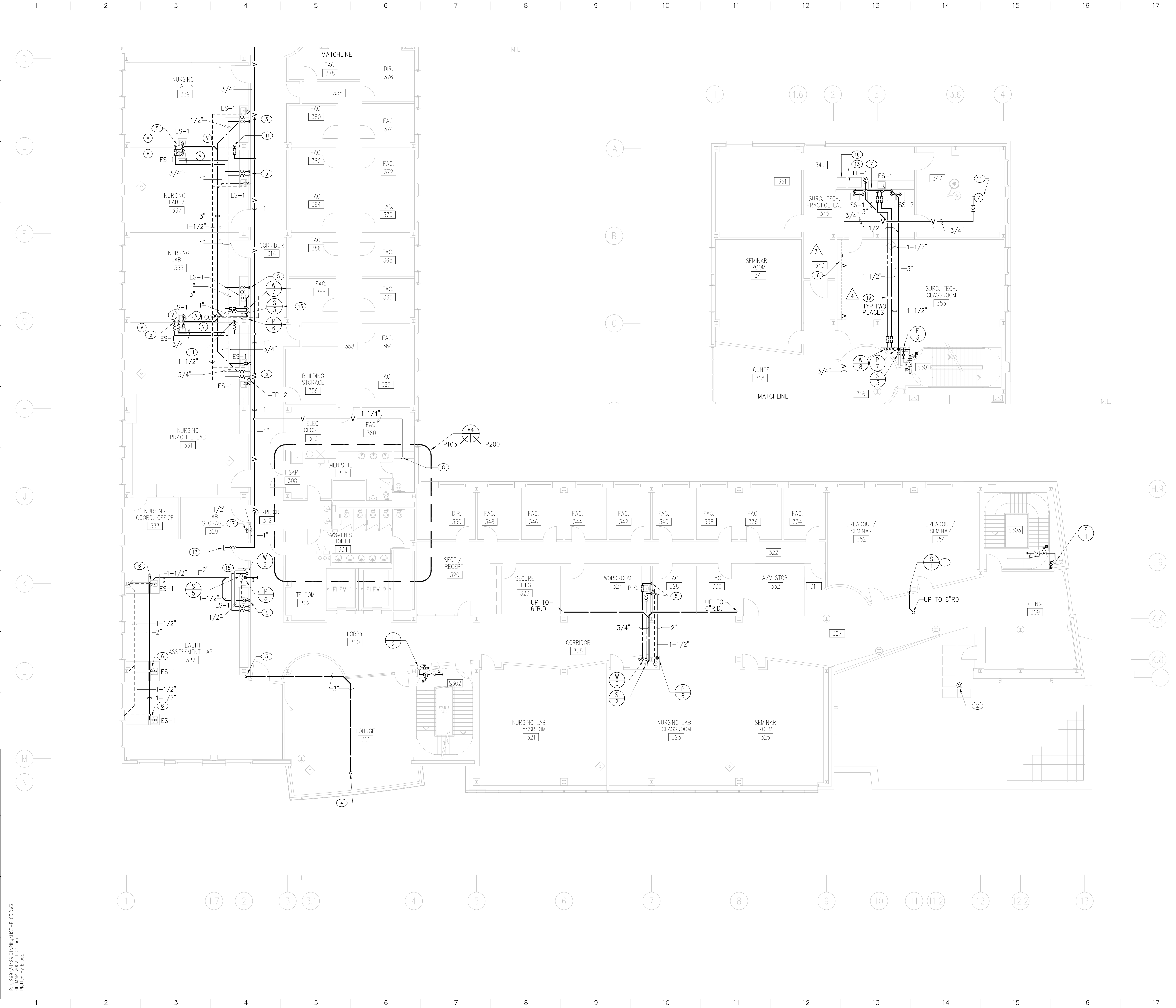
SHEET 18 OF 22

APPROVAL	DATE	TITLE
DEPARTMENT OF GENERAL SERVICES APPROVAL	PROJECT MANAGER	DATE
MONTGOMERY COLLEGE APPROVAL	CHIEF - PROJ. MGT. & DESIGN	DATE

PA 1009A 3/6/99 01:00:00 VBS-P102.DWG  
15 MAY 2002 15:20 pm  
Plotted by EliteE

KEYED NOTES

- ① 6" RAINLEADER DOWN.
- ② SEE PENTHOUSE ROOF PLAN ON DWG. P105.
- ③ 3" DOWN TO SECOND FLOOR CEILING.
- ④ 3" UP TO CANOPY DRAIN.
- ⑤ HOT AND COLD WATER DOWN.
- ⑥ HOT AND COLD WATER UP FROM BELOW FLOOR.
- ⑦ HOT AND COLD WATER DOWN.
- ⑧ 1 1/4" VACUUM PIPE RISER UP TO PENTHOUSE.
- ⑨ NOT USED.
- ⑩ NOT USED.
- ⑪ 3/4" VACUUM DOWN.
- ⑫ CAP 1" VACUUM PIPING FOR FUTURE CONNECTION.
- ⑬ 1" HOT & COLD WATER TO WASHER/DISINFECTOR  
2" INDIRECT WASTE TO OPEN FLOOR DRAIN
- ⑭ COORDINATE VACUUM OUTLET WITH MEDICAL GAS COLUMN #55. REFER TO ARCHITECTURAL DRAWING NO. AB03 FOR LOCATION.
- ⑮ SEE ARCHITECTURAL DWG. A702 FOR WETSTACK COLUMN ENCLOSURE DETAILS.
- ⑯ NOT USED.
- ⑰ AREA/MASTER ALARM PANEL ON WALL FOR VACUUM SYSTEM.
- ⑱ NOT USED.
- ⑲ PRESSURE REDUCING VALVE STATION ABOVE CEILING, SEE RISER DIAGRAM.



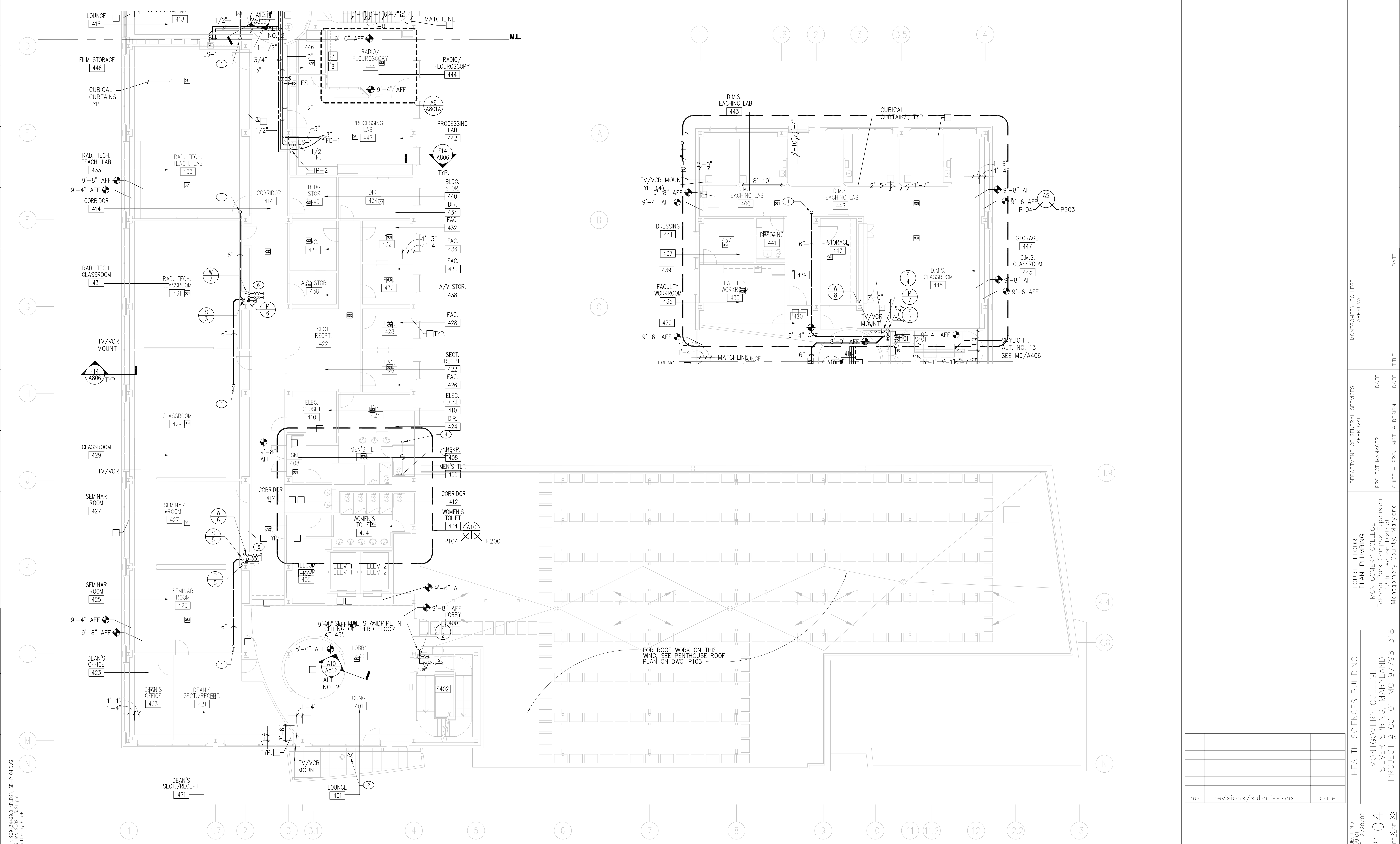
no.	revisions/submissions	date

PA 10699 34495.01  
 06 MAR 2002 1:04 pm  
 Plotted by EliseE

HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC-97/98-318	THIRD FLOOR PLAN-PLUMBING MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland	DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER CHIEF - PROJ. MGT. & DESIGN
PROJECT NO. 34495.01 DATE: 2/20/02	P103 SHEET... OF ...	MONTGOMERY COLLEGE APPROVAL DATE TITLE

KEYED NOTES

- ① 6" UP TO ROOF DRAIN.
- ② 3" TWO-LEVEL TERRACE DRAIN.
- ③ NOT USED.
- ④ 1 1/4" VACUUM PIPING RISER DOWN.
- ⑤ 1 1/4" VACUUM PIPING RISER UP TO PENTHOUSE.
- ⑥ SEE ARCHITECTURAL DWG. A702 FOR WETSTACK COLUMN ENCLOSURE DETAILS.



FOR ROOF WORK ON THIS WING, SEE PENTHOUSE ROOF PLAN ON DWG. P105

no.	revisions/submissions	date

PA 10000 3/4/99 01/12/00 VBS=P104.DWG  
15 JAN 2002 15:21 pm  
Plotted by ElnE

PROJECT NO. 1449501  
 DATE: 2/20/02  
**P104**  
 SHEET XX OF XX

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

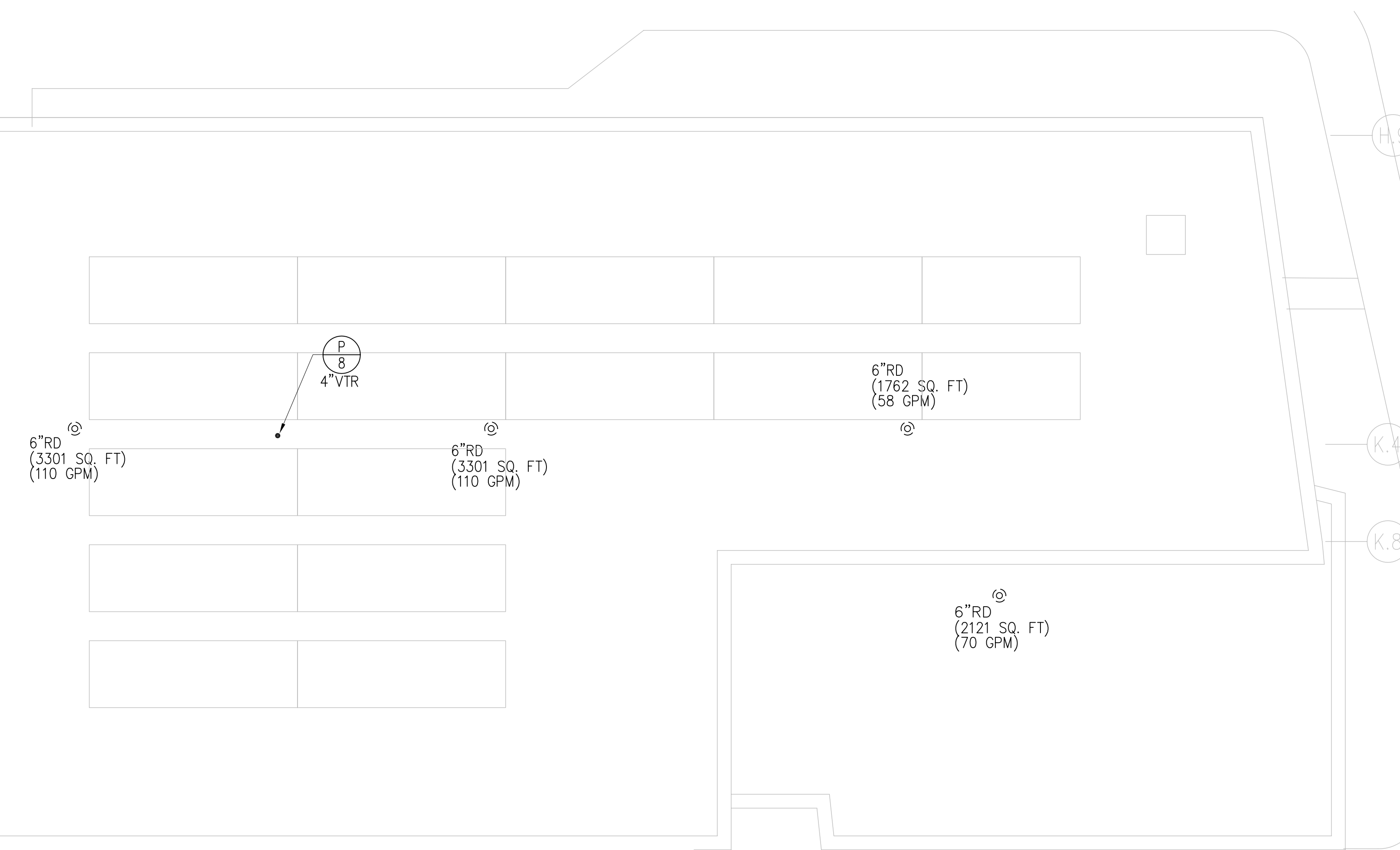
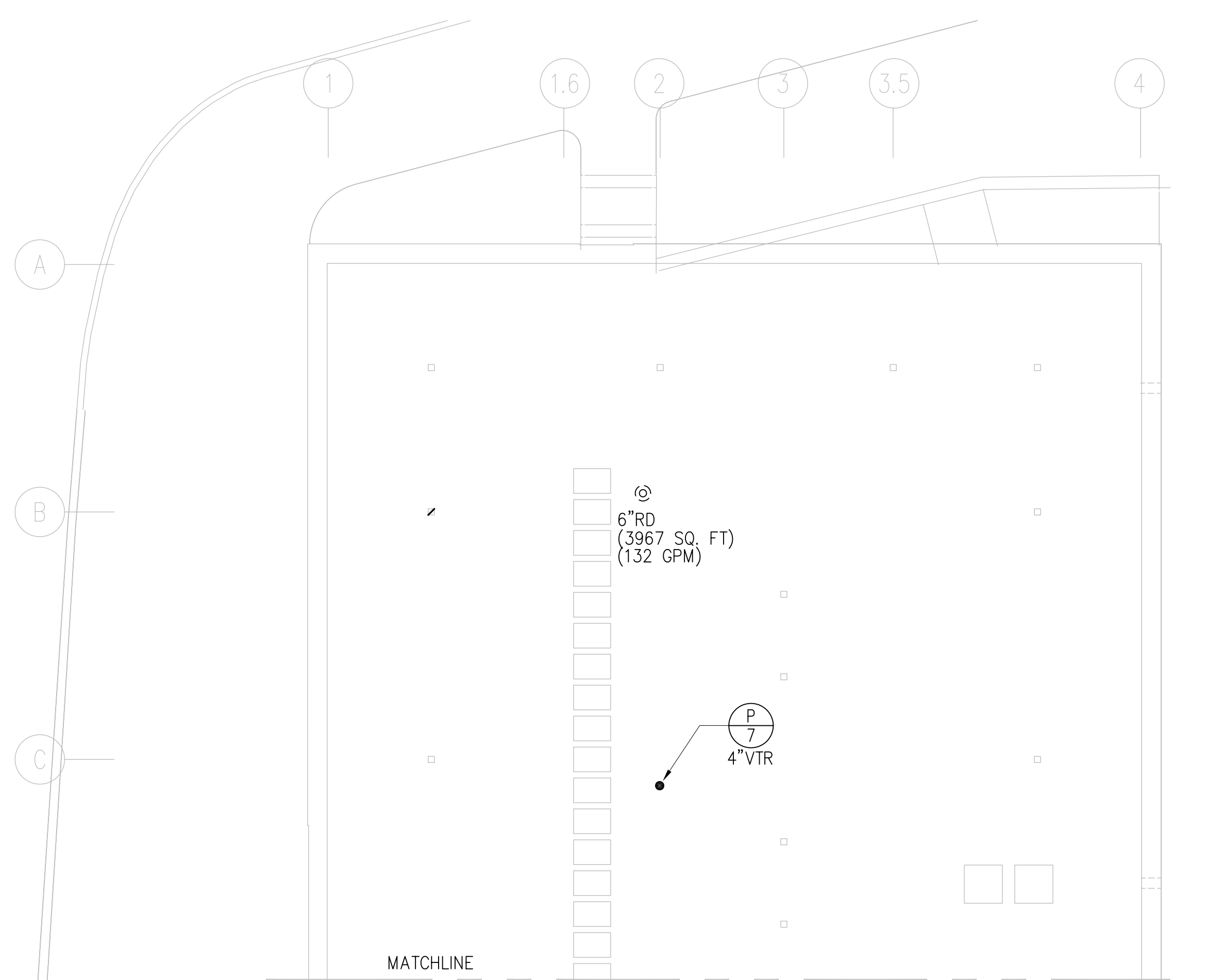
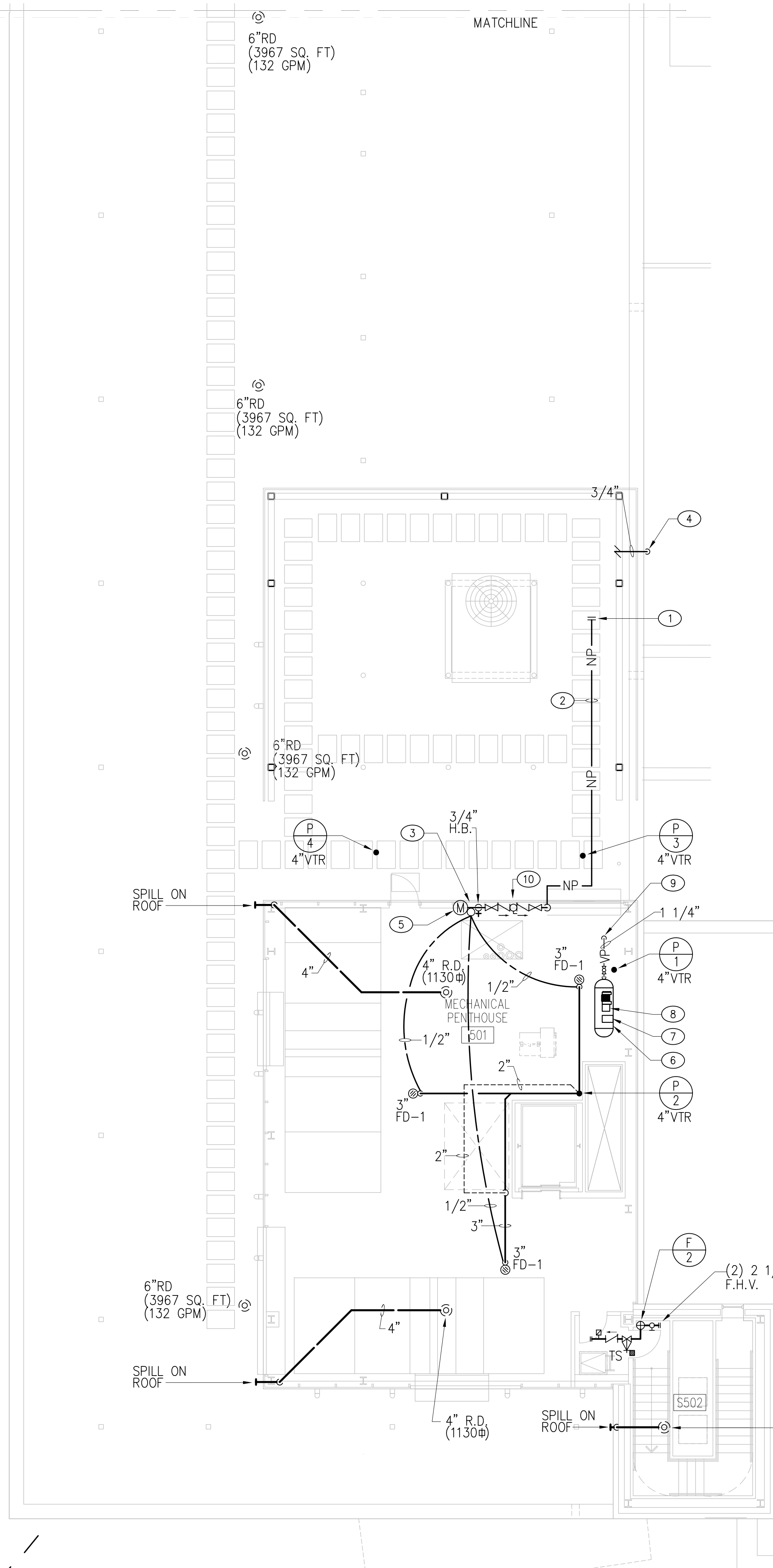
FOURTH FLOOR  
 PLAN-PLUMBING  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 DATE  
 TITLE

KEYED NOTES

- ① FOR CONNECTION TO MECHANICAL MAKE-UP. SEE MECHANICAL DWGS.
- ② 1-1/2" NON-POTABLE WATER FOR MECHANICAL MAKE-UP. HEAT TRACE AND INSULATE.
- ③ TRAP PRIMER (TP-3)
- ④ NOT USED.
- ⑤ 1" SUB-METER FOR COOLING TOWER MAKE-UP.
- ⑥ VACUUM PUMP W/80 GALLON RECEIVER.
- ⑦ TANK MOUNTED CONTROL PANEL.
- ⑧ TANK MOUNTED MOTOR.
- ⑨ 1 1/4" VACUUM PIPING DOWN.
- ⑩ 1 1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER.



no.	revisions/submissions	date

PROJECT NO. 34495.01  
 DATE: 2/20/02  
**P105**  
 SHEET 1 OF XX

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC 97/98-318

PENTHOUSE/ROOF  
 PLAN-PLUMBING  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

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 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL

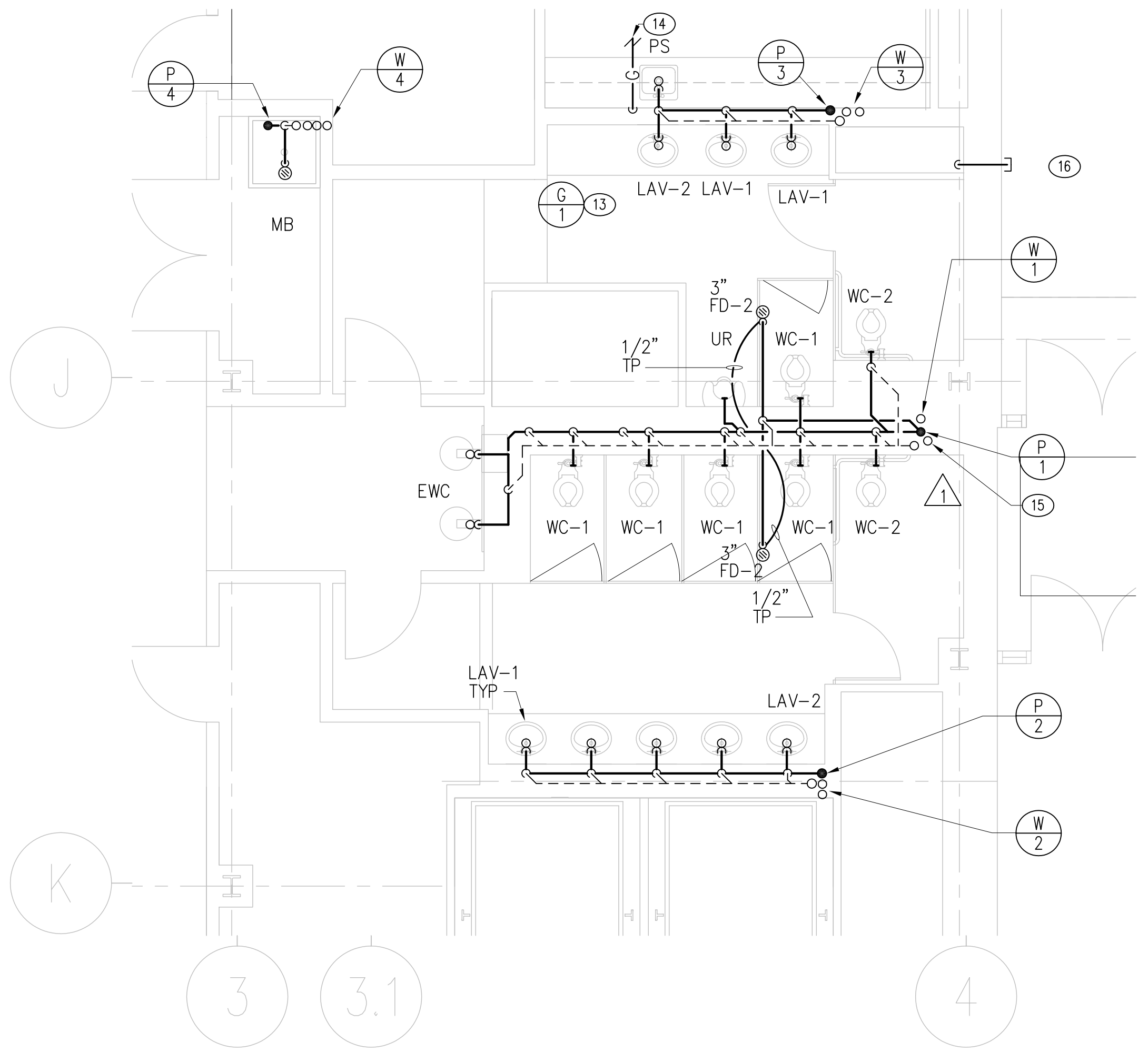
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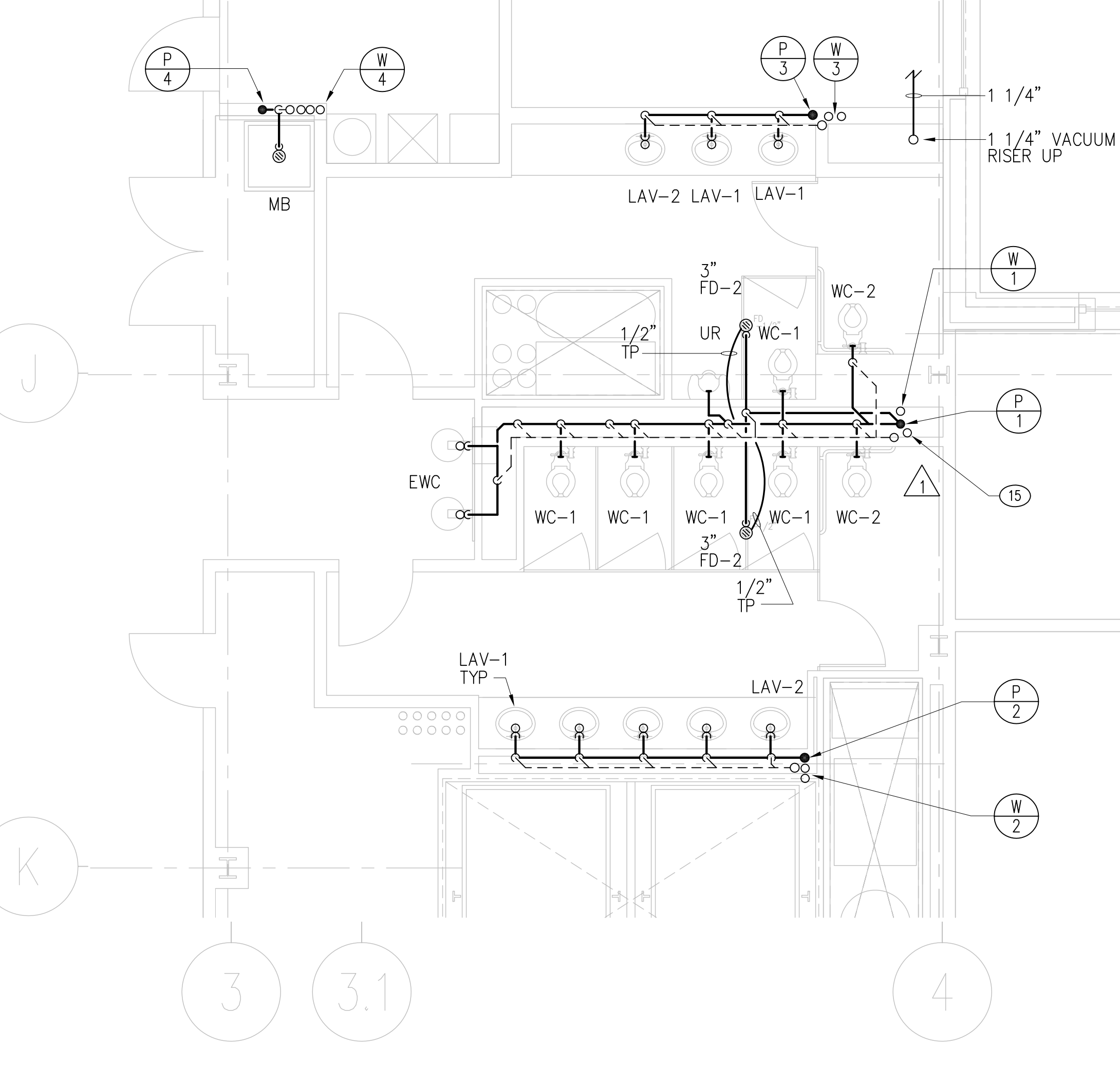
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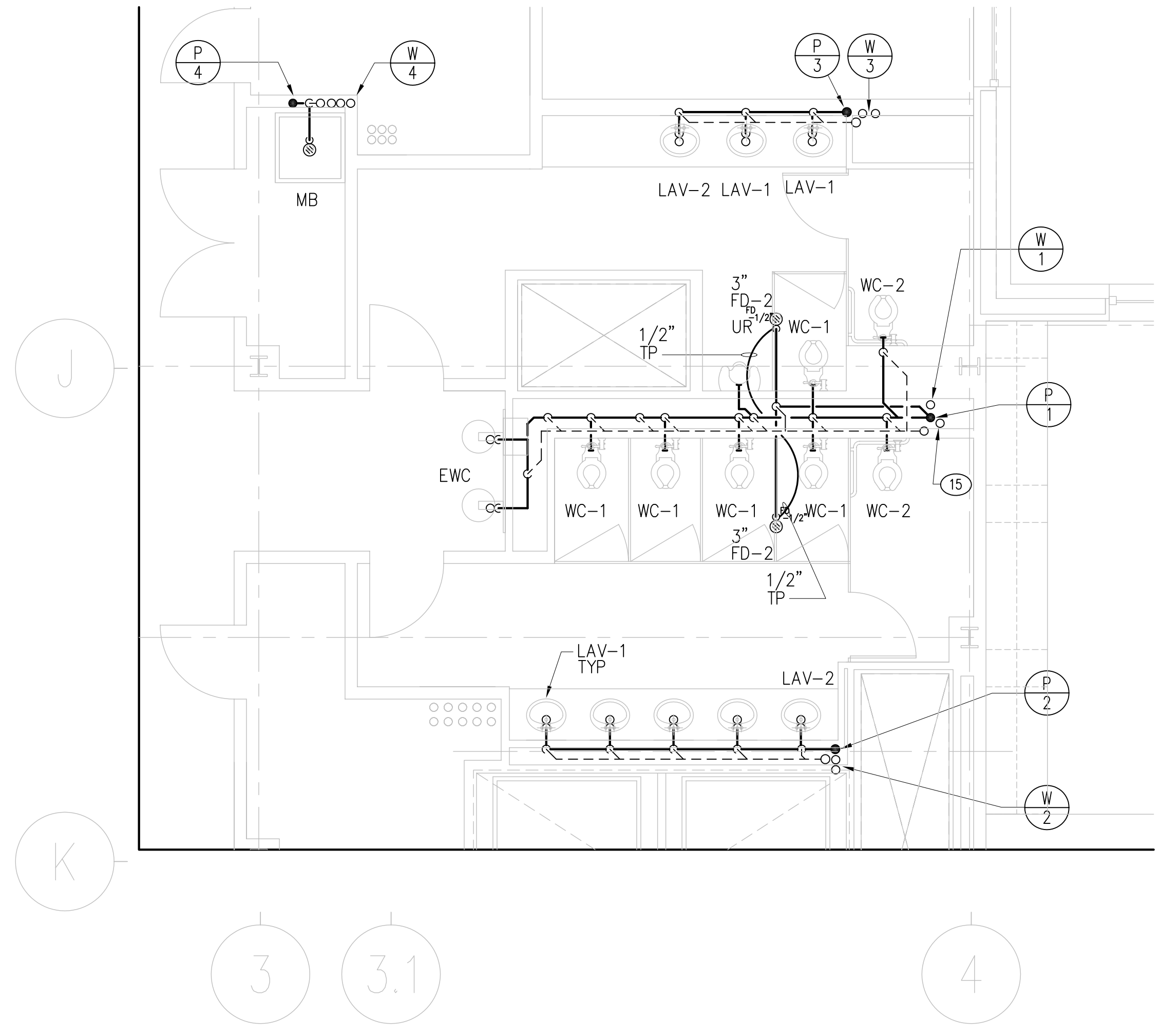
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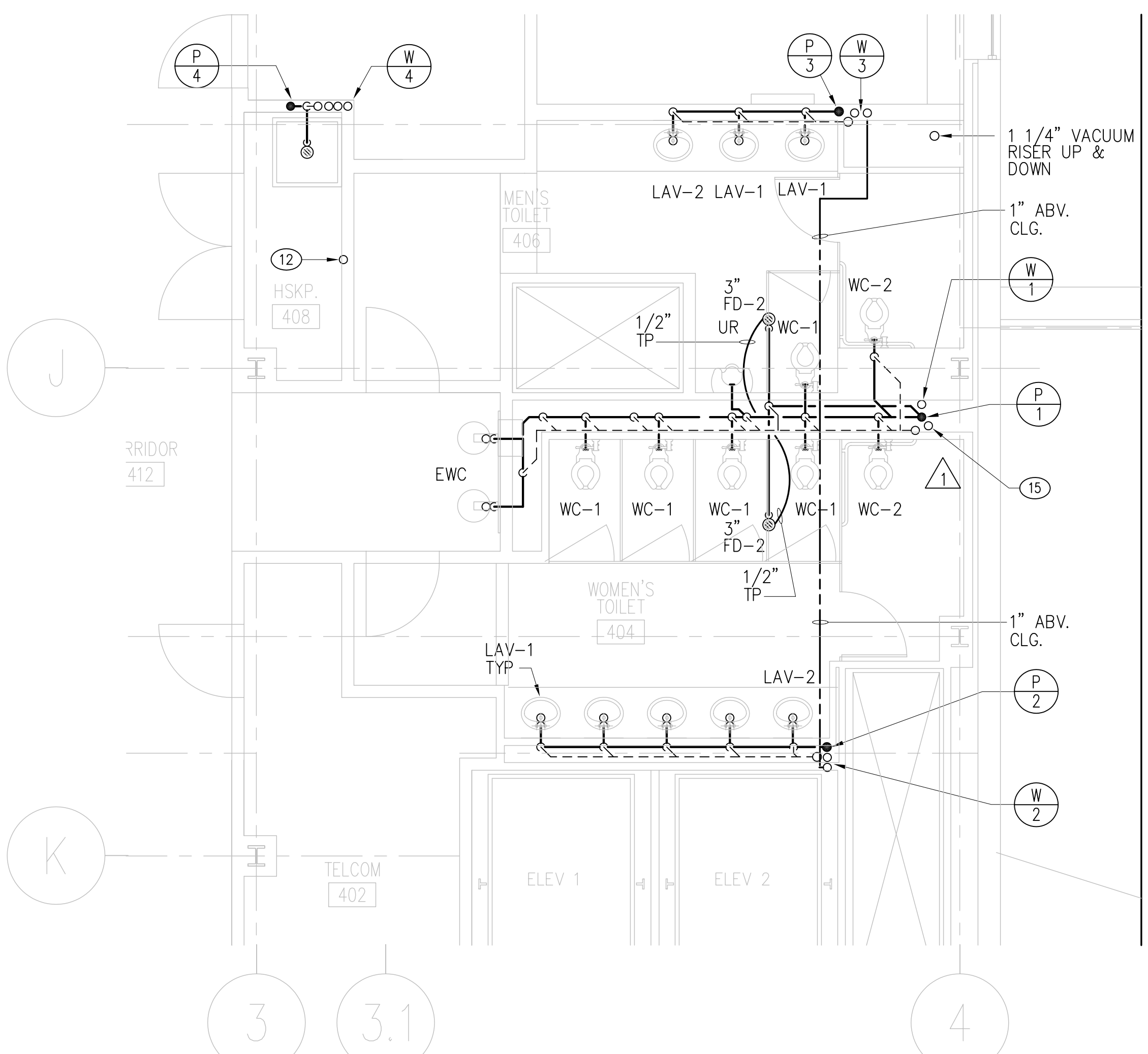
J5 FIRST FLOOR CORE PLAN  
1/4"=1'-0" P101



A5 THIRD FLOOR PLAN  
1/4"=1'-0" P103



J11 SECOND FLOOR CORE PLAN  
1/4"=1'-0" P102



A11 FOURTH FLOOR PLAN  
1/4"=1'-0" P104

KEYED NOTES

- ① WATER HEATING SYSTEM, SEE DETAIL A3 ON DWG. P002.
- ② SEWAGE EJECTOR CONTROL PANEL.
- ③ DUPLEX BOOSTER PUMP SYSTEM, SEE DETAIL F11 ON DWG. P002.
- ④ SIMPLEX SEWAGE EJECTOR, SEE DETAIL L3 ON DWG. P002.
- ⑤ 3" WATER METER W/VALVED BY-PASS.
- ⑥ 6" DOUBLE CHECK BACKFLOW PREVENTER.
- ⑦ FIRE PUMP, SEE DETAIL XX ON DWG. P002.
- ⑧ JOCKEY PUMP.
- ⑨ JOCKEY PUMP CONTROLLER.
- ⑩ FIRE PUMP CONTROLLER.
- ⑪ NOT USED.
- ⑫ 1-1/2" UP TO ROOF FOR MECHANICAL MAKE UP.
- ⑬ 3" GAS PIPING DOWN.
- ⑭ SEE DWG. P101 FOR CONTINUATION.
- ⑮ 3" SEWAGE EJECTOR VENT THROUGH ROOF.
- ⑯ CAPPED 2 1/2" MALE FIRE HOSE ADAPTOR WITH 3" OUTLET DOWN THROUGH FLOOR FOR DOMESTIC WATER METER TESTING.

no.	revisions/submissions	date

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

ENLARGED PART  
PLANS-PLUMBING  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
APPROVAL

PROJECT MANAGER  
CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
APPROVAL

DATE  
DATE  
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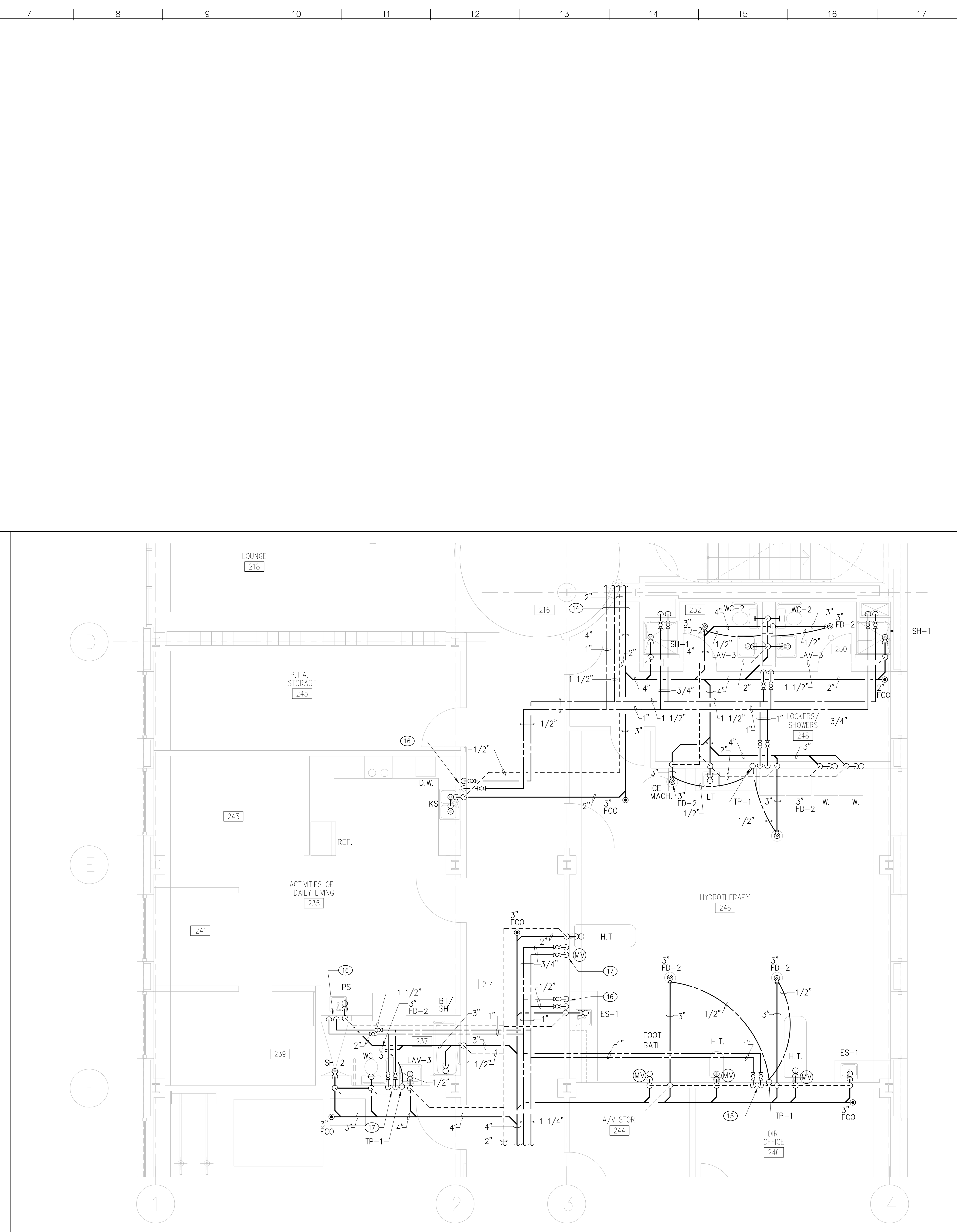
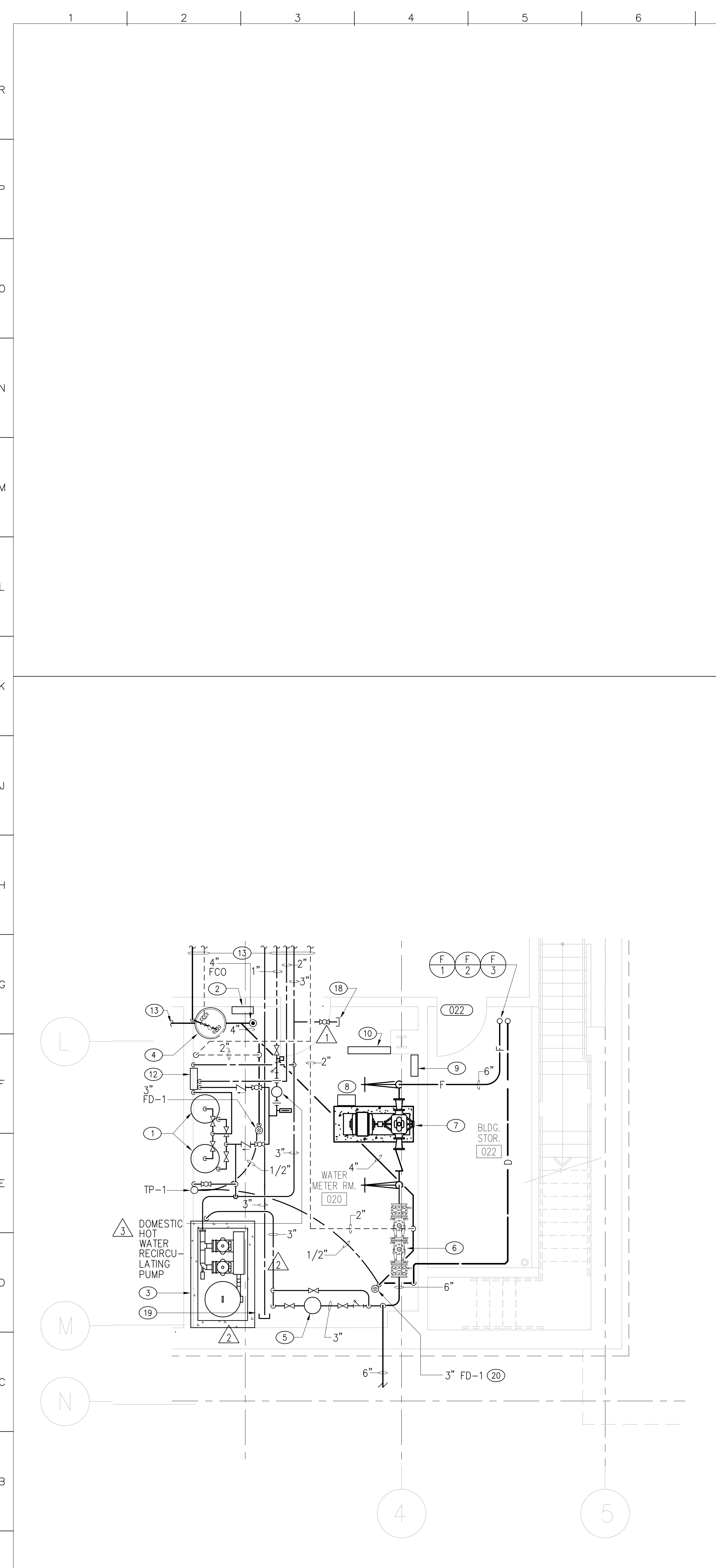
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DATE

PROJECT NO.  
3449501  
DATE: 2/20/02

P200  
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**KEYED NOTES**

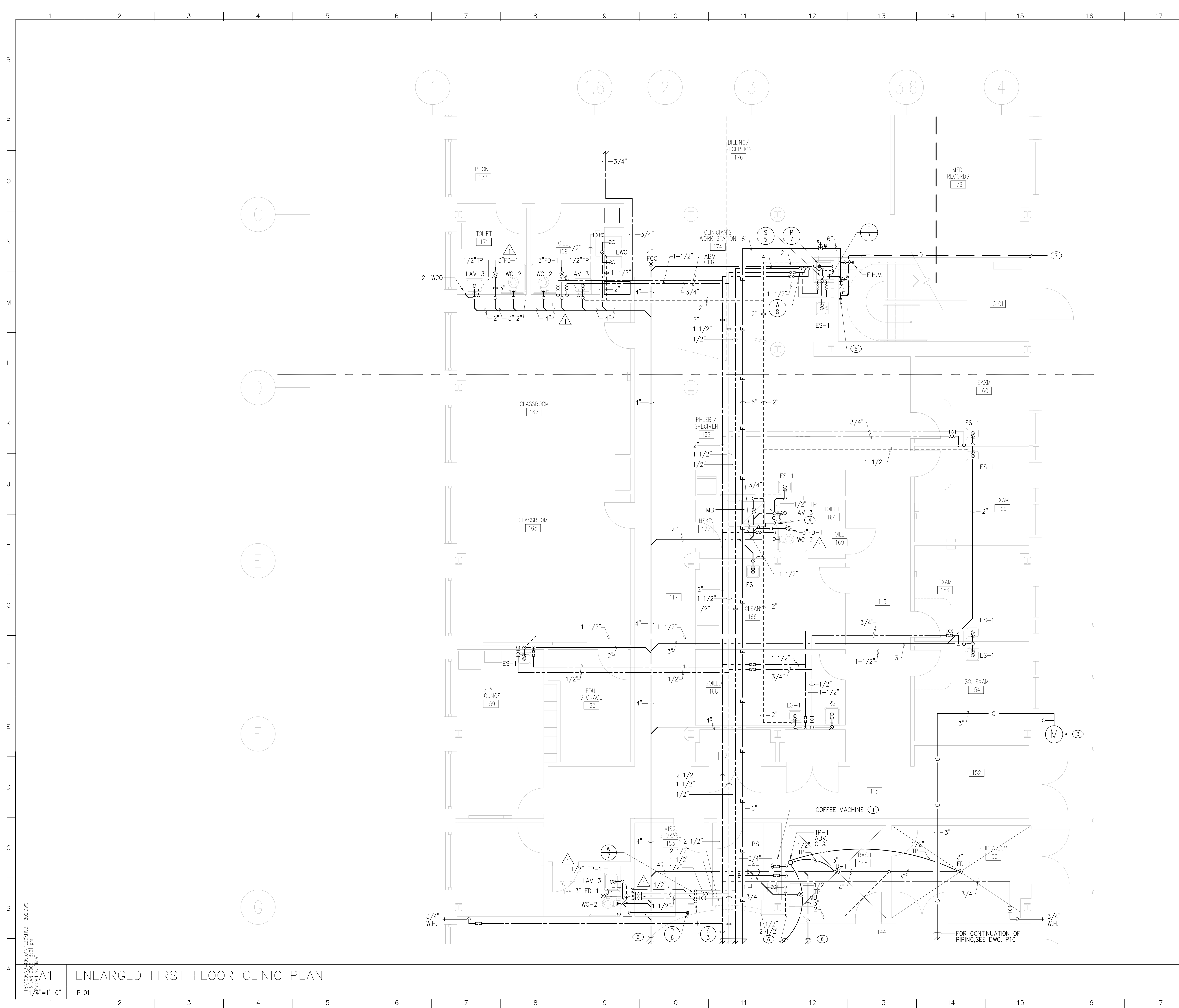
- ① WATER HEATING SYSTEM, SEE DETAIL A3 ON DWG. P002
- ② SEWAGE EJECTOR CONTROL PANEL.
- ③ DUPLEX BOOSTER PUMP SYSTEM, SEE DETAIL F11 ON DWG. P002.
- ④ SIMPLEX SEWAGE EJECTOR, SEE DETAIL L3 ON DWG. P002.
- ⑤ 2" WATER METER W/VALVED BY-PASS INSTALL IN ACCORDANCE WITH W.S.S.C. STANDARDS AND CLEARANCES.
- ⑥ 6" DOUBLE CHECK BACKFLOW PREVENTER.
- ⑦ FIRE PUMP, SEE DETAIL L11 ON DWG. P002.
- ⑧ JOCKEY PUMP.
- ⑨ JOCKEY PUMP CONTROLLER.
- ⑩ FIRE PUMP CONTROLLER, FLOOR MOUNTED.
- ⑪ 1-1/2" SUB METER (HOLY CROSS)
- ⑫ BASE BUILDING THERMOSTATIC MIXING VALVE SET AT 120°F.
- ⑬ FOR CONTINUATION OF PIPING, SEE A1 ON DRAWING P100.
- ⑭ FOR CONTINUATION OF PIPING, SEE A7 ON DRAWING P102.
- ⑮ 1" HOT AND COLD WATER DOWN. EXTEND 1" PIPING CONCEALED IN WALL ABOVE FLOOR TO PLUMBING FIXTURES FOOT BATH, H.T., AND ES-1.
- ⑯ 1/2" HOT AND COLD WATER DOWN.
- ⑰ 3/4" HOT AND COLD WATER DOWN.
- ⑱ 1 1/2" VALVED AND CAPPED WATER LINE FOR CONNECTION TO IRRIGATION SYSTEM. ALTERNATE #1, IRRIGATION CONTRACTOR TO PROVIDE BACKFLOW PREVENTER AND SUB-METER.
- ⑲ CAPPED 2 1/2" MALE FIRE HOSE ADAPTOR FOR DOMESTIC WATER METER TESTING.
- ⑳ FLOOR DRAIN RECEIVING INDIRECT WASTE FROM FIRE SPRINKLER EXPRESS DRAIN AND PUMPED DISCHARGE FROM EJECTOR IN ADJACENT CENT. TEL. RM. 021.

no.	revisions/submissions	date

A1 BASEMENT MECHANICAL ROOM  
1/4"=1'-0" P100

A7 SECOND FLOOR PLAN  
1/4"=1'-0" P102

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318  
 ENLARGED PART PLANS-PLUMBING  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland  
 DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER DATE  
 CHIEF - PROJ. MGT. & DESIGN DATE  
 MONTGOMERY COLLEGE APPROVAL  
 TITLE DATE



**KEYED NOTES**

- ① BRANCH LINE BELOW COUNTER WITH ACCESSIBLE SHUT-OFF VALVE AND ACCESSIBLE DUAL CHECK BACKFLOW PREVENTER FOR COFFEE MACHINE.
- ② 2" FOR HOLY CROSS LINE, SEE DWG. P101 FOR CONTINUATION.
- ③ GAS METER AND SERVICE BY GAS COMPANY. REFER TO GAS RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ④ 1-1/2" COLD WATER AND 3/4" HOT WATER DOWN.
- ⑤ FOR CONNECTION TO AUTO. SPRINKLER SYSTEM.
- ⑥ FOR CONTINUATION OF PIPING, SEE DRAWING P101.
- ⑦ SPILL FIRE SPRINKLER EXPRESS DRAIN ON GRADE.

no.	revisions/submissions	date

**A1 ENLARGED FIRST FLOOR CLINIC PLAN**  
 P101  
 1/4"=1'-0"

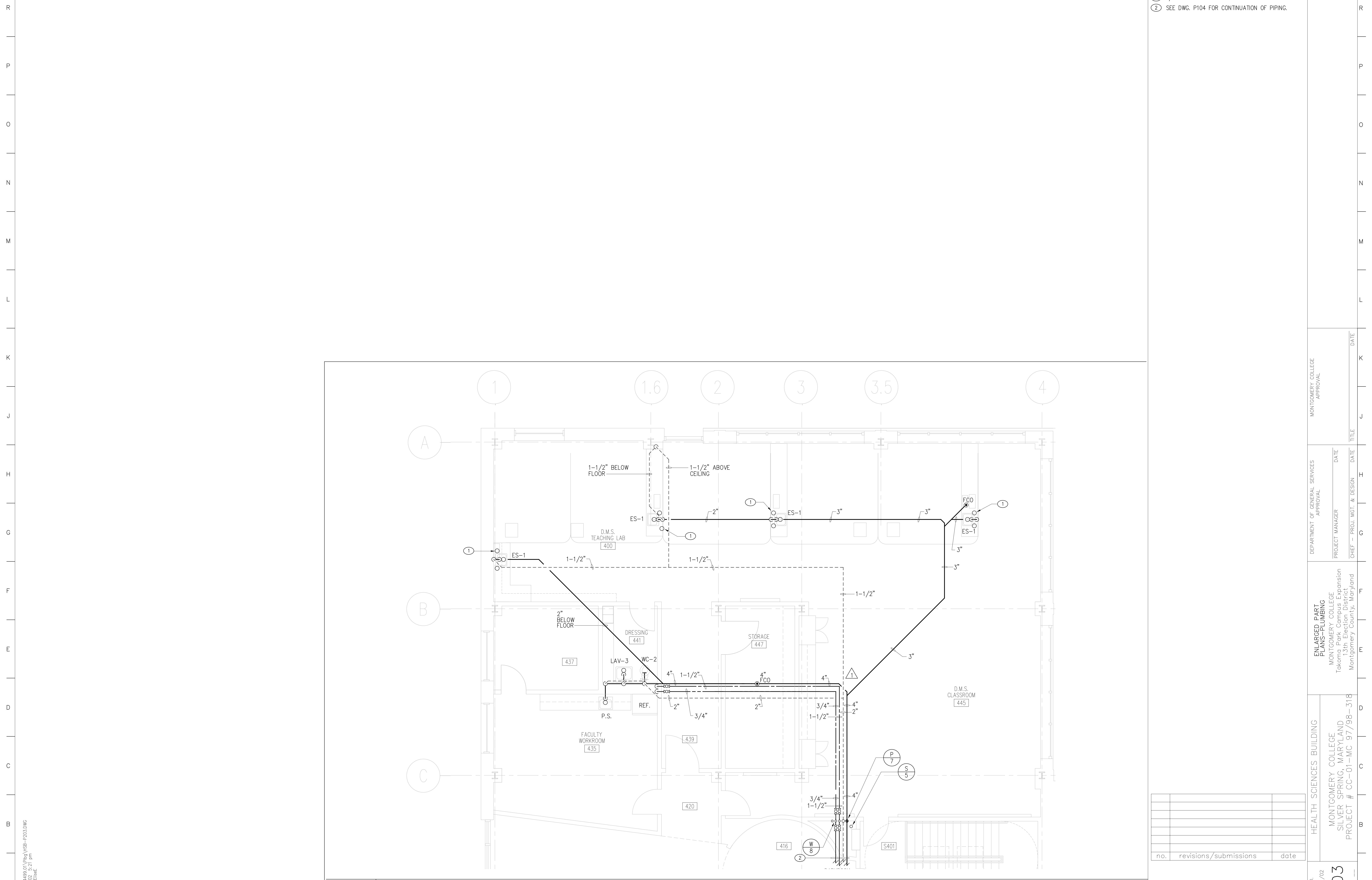
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 DATE: 2/20/02  
**P202**  
 SHEET 10 OF 10

**HEALTH SCIENCES BUILDING**  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

**ENLARGED 1st FLOOR CLINIC PLAN-PLUMBING**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES APPROVAL  
 PROJECT MANAGER \_\_\_\_\_ DATE \_\_\_\_\_  
 CHIEF - PROJ. MGT. & DESIGN \_\_\_\_\_ DATE \_\_\_\_\_

MONTGOMERY COLLEGE APPROVAL  
 \_\_\_\_\_ DATE \_\_\_\_\_



**KEYED NOTES**

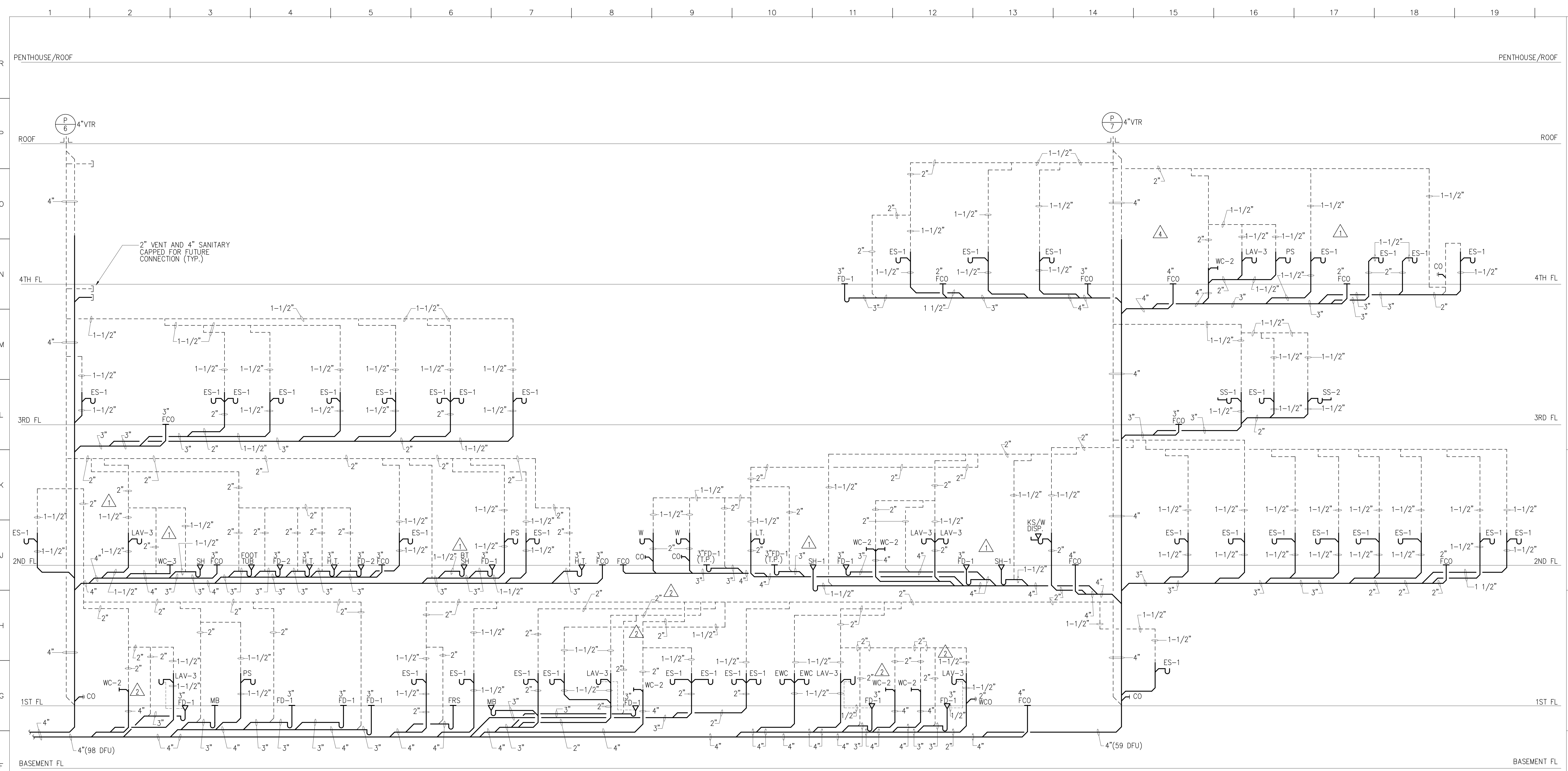
① 1/2" HOT AND COLD WATER UP FROM BELOW FLOOR.  
 ② SEE DWG. P104 FOR CONTINUATION OF PIPING.

A5 FOURTH FLOOR PART PLAN  
 1/4"=1'-0" P104

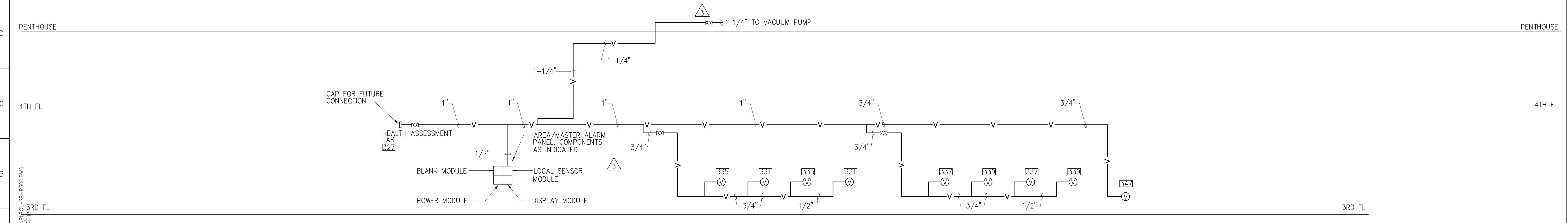
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PROJECT NO. 34495.01 DATE: 2/20/02		PROJECT MANAGER _____ DATE _____ CHIEF - PROJ. MGT. & DESIGN _____ DATE _____		TITLE _____ DATE _____
<b>P203</b>				
SHEET ___ OF ___				



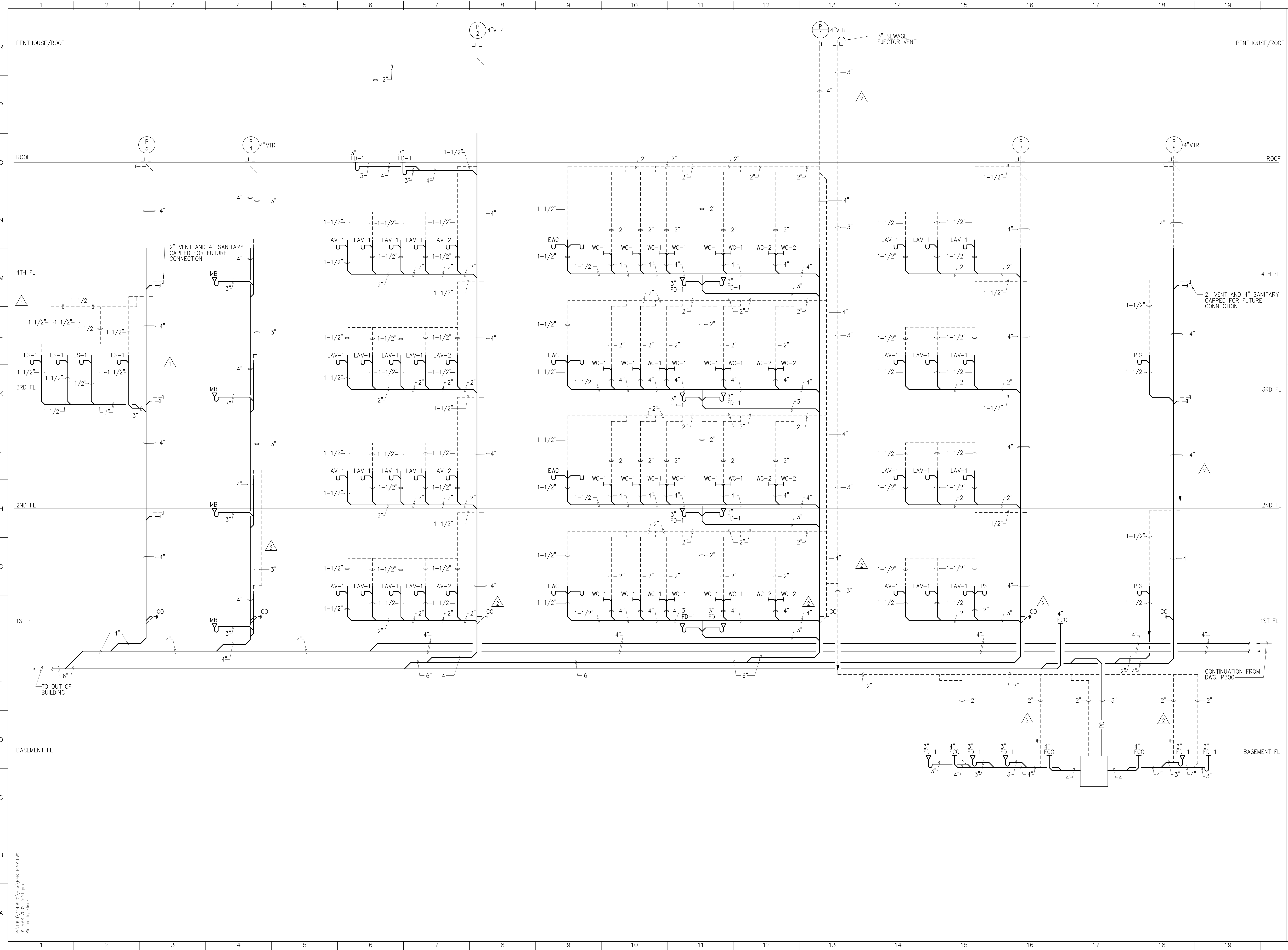
SANITARY WASTE RISER DIAGRAM  
NO SCALE



VACUUM RISER DIAGRAM  
NO SCALE

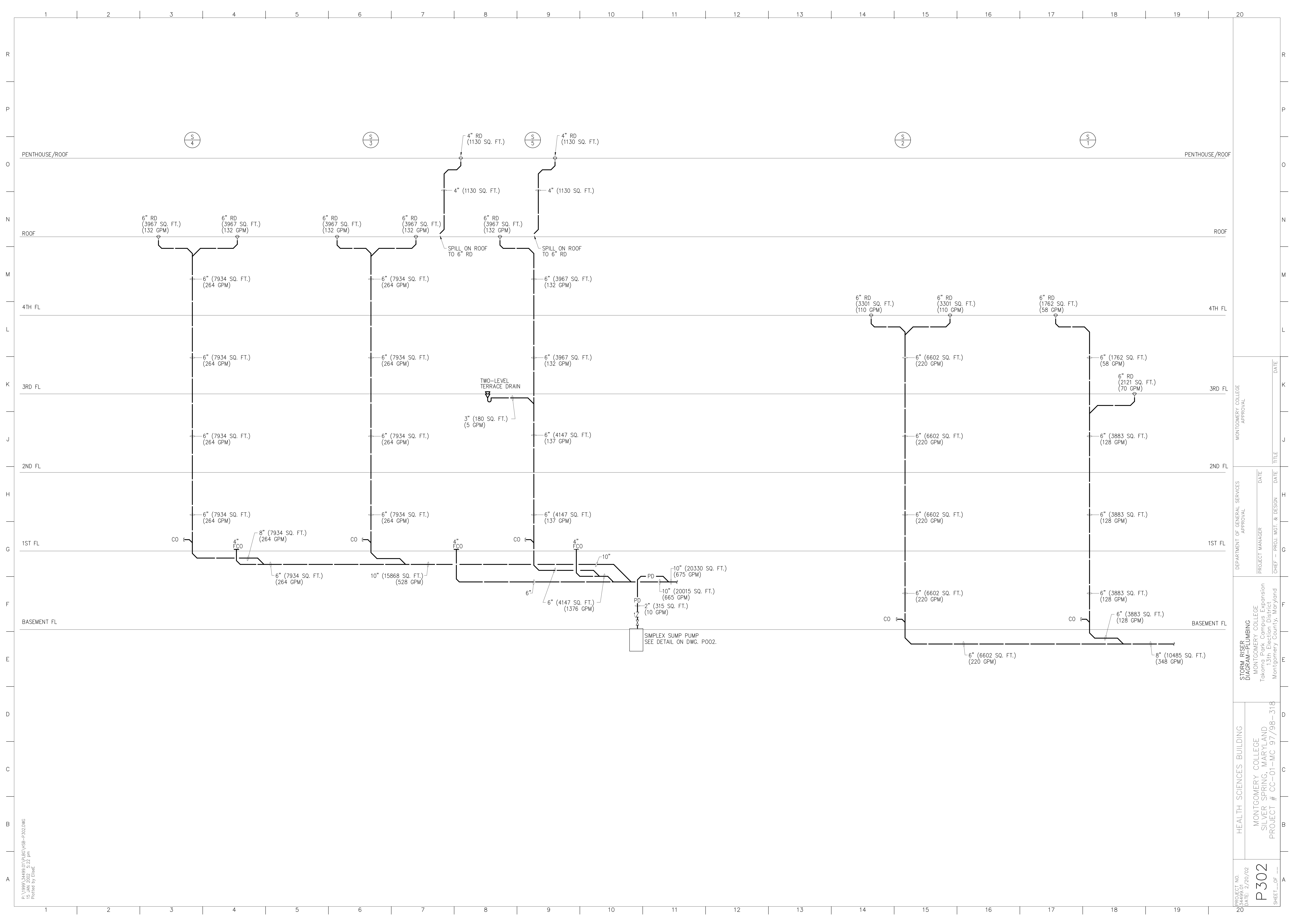
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 15 JAN 2002 5:22  
 Plotted by Elise

PROJECT NO. 34495.01 DATE: 2/20/02 <b>P300</b> SHEET... OF ...	HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC-97/98-318	SANITARY WASTE & VACUUM RISER DIAGRAM-PLUMBING MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland	DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER CHIEF - PROJ. MGT. & DESIGN	MONTGOMERY COLLEGE APPROVAL TITLE DATE
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 Plotted by EliseE

PROJECT NO. 34495 01	DATE 2/20/02	<b>P301</b> SHEET ___ OF ___
HEALTH SCIENCES BUILDING MONTGOMERY COLLEGE SILVER SPRING, MARYLAND PROJECT # CC-01-MC-97/98-318		
SANITARY WASTE PLUMBING RISER DIAGRAM MONTGOMERY COLLEGE Takoma Park Campus Expansion 13th Election District Montgomery County, Maryland		
DEPARTMENT OF GENERAL SERVICES APPROVAL PROJECT MANAGER _____ DATE _____ CHIEF - PROJ. MGT. & DESIGN _____ DATE _____		
MONTGOMERY COLLEGE APPROVAL TITLE _____ DATE _____		



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 144695.01  
 DATE: 2/20/02

**P302**  
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HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND  
 PROJECT # CC-01-MC-97/98-318

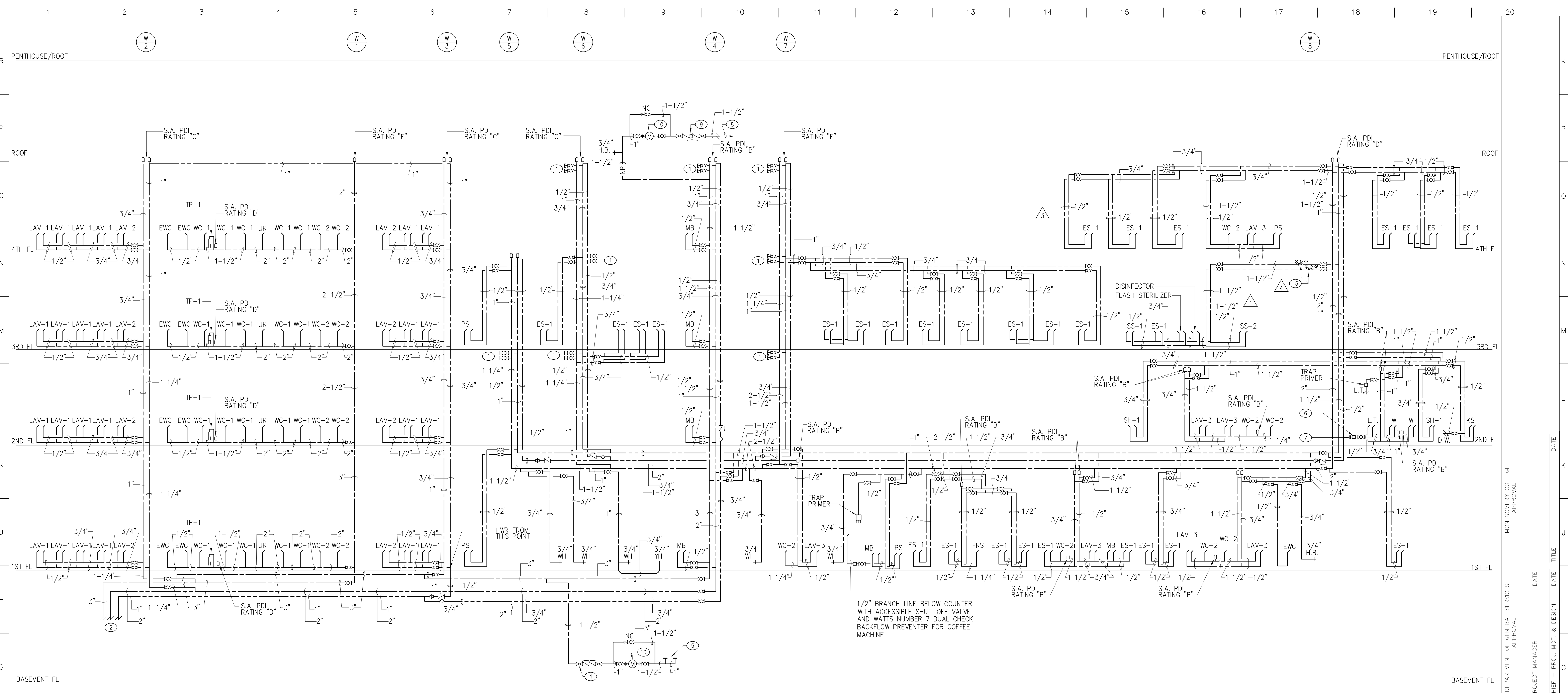
**STORM RISER  
 DIAGRAM-PLUMBING**  
 MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

TITLE  
 DATE

TITLE  
 DATE



- ① 1" COLD WATER AND 3/4" HOT WATER CAPPED FOR FUTURE. (TYP.)
- ② TO MECHANICAL ROOM, DOMESTIC WATER HEATING SYSTEM.
- ③ NOT USED.
- ④ 1-1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER.
- ⑤ MECHANICAL MAKE-UP, 1" CHILLED WATER AND 1" HOT WATER.
- ⑥ 1/2" DOUBLE CHECK BACKFLOW PREVENTER.
- ⑦ ICE MACHINE.
- ⑧ TO MECHANICAL COOLING TOWER FOR MAKE-UP. HEAT TRACE AND INSULATE EXPOSED PIPING.
- ⑨ 1-1/2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER.
- ⑩ 1" SUB-METER FOR MAKE-UP WATER
- ⑪ NOT USED.
- ⑫ NOT USED.
- ⑬ NOT USED.
- ⑭ NOT USED.
- ⑮ PRESSURE REDUCING VALVE STATION WITH 1 1/2" PRESSURE REDUCING VALVE AND PRESSURE GAUGES. APPROXIMATE INCOMING PRESSURE OF 55 PSI. REDUCE PRESSURE ON OUTLET OF COLD WATER TO 40 PSI AT 34 GPM. REDUCE PRESSURE ON OUTLET OF HOT WATER TO 40 PSI AT 20 GPM.

1/2" BRANCH LINE BELOW COUNTER WITH ACCESSIBLE SHUT-OFF VALVE AND WATTS NUMBER 7 DUAL CHECK BACKFLOW PREVENTER FOR COFFEE MACHINE

no.	revisions/submissions	date

**HEALTH SCIENCES BUILDING**

**DOMESTIC WATER PLUMBING RISER DIAGRAM**

MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

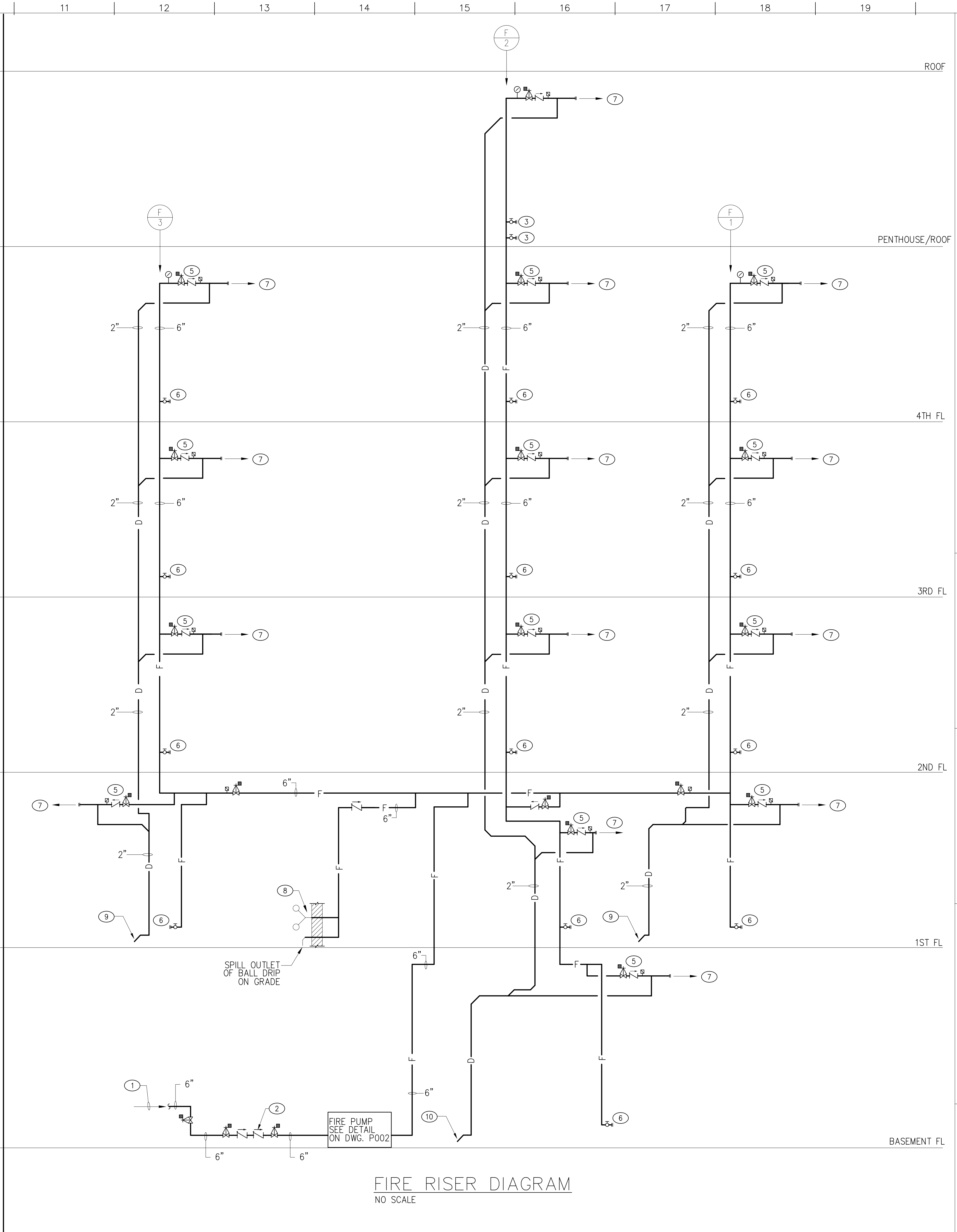
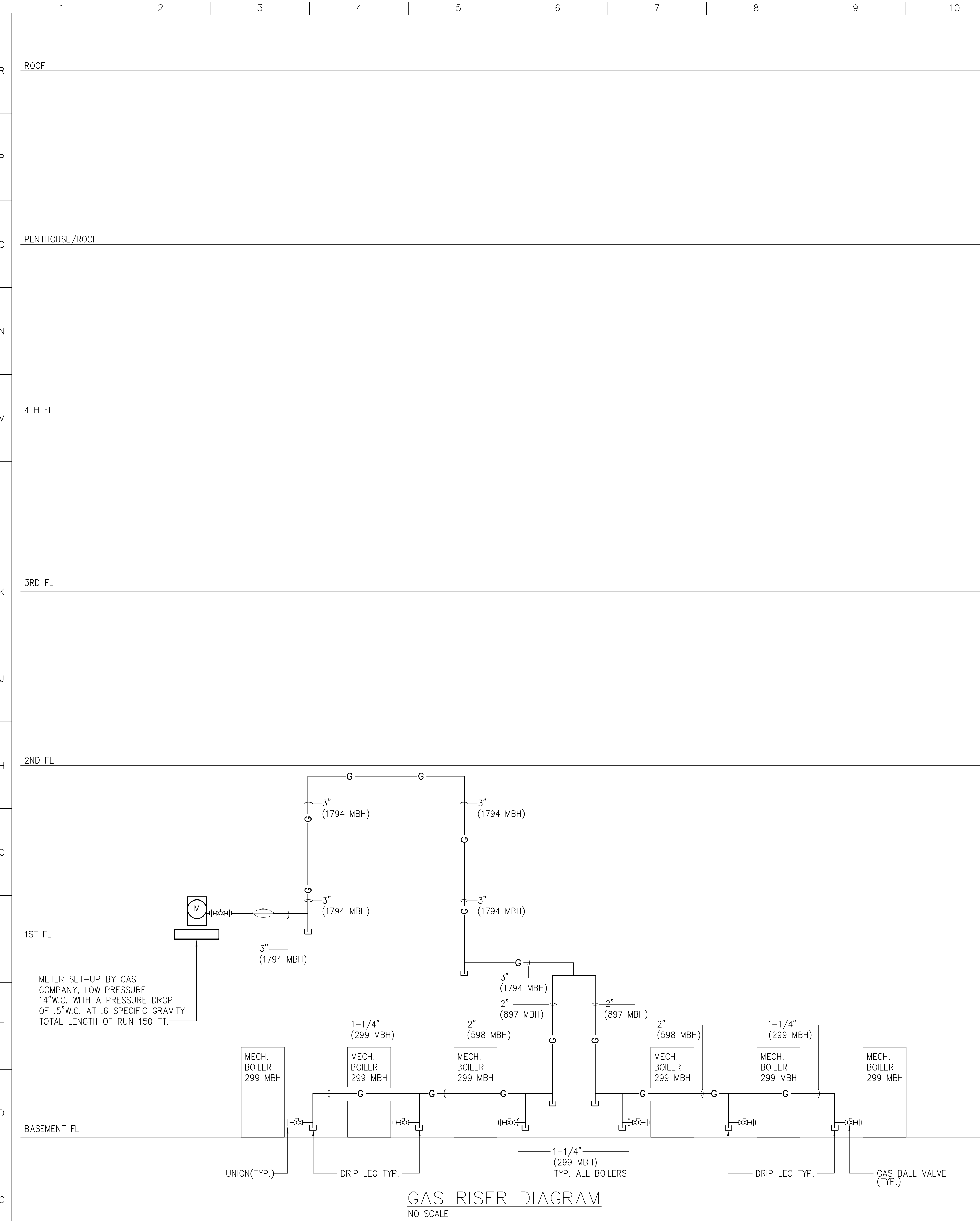
PROJECT # CC-01-MC-97/98-318

P303

PROJECT NO. 34495.01  
DATE: 2/20/02

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DEPARTMENT OF GENERAL SERVICES APPROVAL	DATE	DATE
MONTGOMERY COLLEGE APPROVAL	DATE	DATE
PROJECT MANAGER	DATE	DATE
CHIEF - PROJ. MGT. & DESIGN	DATE	DATE



**KEYED NOTES**

- ① 6" INCOMING FIRE SERVICE, SEE CIVIL ENGINEERS DRAWING FOR CONTINUATION OF PIPING.
- ② 6" DOUBLE CHECK BACKFLOW PREVENTER ON PIPE STAND.
- ③ 2 1/2" FIRE HOSE VALVE WITH 2 1/2" x 1 1/2" REDUCER WITH CAP AND CHAIN.
- ④ SPILL 2" FIRE SPRINKLER EXPRESS DRAIN TO FLOOR DRAIN, SEE STORM DRAINAGE RISER DIAGRAM.
- ⑤ FIRE SPRINKLER CONTROL ASSEMBLY.
- ⑥ 2 1/2" FIRE HOSE VALVE WITH 2 1/2" X 1 1/2" REDUCER WITH CAP AND CHAIN IN RECESSED CABINET.
- ⑦ FIRE SPRINKLER PIPING TO THIS FLOOR.
- ⑧ FIRE DEPARTMENT CONNECTION MOUNTED 18" TO 42" ABOVE GROUND.
- ⑨ SPILL 2" FIRE SPRINKLER EXPRESS DRAIN TO EXTERIOR GRADE.
- ⑩ SPILL 2" FIRE SPRINKLER EXPRESS DRAIN TO FLOOR DRAIN.

no.	revisions/submissions	date

**HEALTH SCIENCES BUILDING**  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND  
PROJECT # CC-01-MC-97/98-318

**FIRE PROTECTION-PLUMBING RISER DIAGRAM**  
MONTGOMERY COLLEGE  
Takoma Park Campus Expansion  
13th Election District  
Montgomery County, Maryland

**P304**

PROJECT NO. 34495.01  
DATE: 2/20/02

SHEET \_\_\_ OF \_\_\_

DEPARTMENT OF GENERAL SERVICES APPROVAL  
MONTGOMERY COLLEGE APPROVAL

PROJECT MANAGER DATE  
CHIEF - PROJ. MGT. & DESIGN DATE TITLE DATE



GENERAL STRUCTURAL AND CONSTRUCTION NOTES

THESE NOTES SUPPLEMENT THE SPECIFICATIONS WHICH SHALL BE REFERRED TO FOR ADDITIONAL REQUIREMENTS. THESE NOTES APPLY TO CONTRACTORS, SUBCONTRACTORS, MANUFACTURERS, SUPPLIERS, FABRICATORS, ERECTORS, ETC. ENGAGED IN THE EXECUTION OF WORK INDICATED ON THESE DRAWINGS.

A. CODES AND STANDARDS:

1. THE FOLLOWING CODES AND STANDARDS, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, SHALL APPLY TO THE DESIGN, CONSTRUCTION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS UNLESS NOTED OTHERWISE.

- a. "THE INTERNATIONAL BUILDING CODE - IBC 2000", BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC.
b. "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" (ASCE 7-98), AMERICAN SOCIETY OF CIVIL ENGINEERS.
c. "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-99", AMERICAN CONCRETE INSTITUTE.
d. "ACI MANUAL OF CONCRETE PRACTICE - PARTS 1 THROUGH 5 - 1999".
e. "MANUAL OF STANDARD PRACTICE", CONCRETE REINFORCING STEEL INSTITUTE.
f. "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN", NINTH EDITION, 1989, AMERICAN INSTITUTE OF STEEL CONSTRUCTION (INCLUDING SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, AND AISC CODE OF STANDARD PRACTICE.
g. "MANUAL OF STEEL CONSTRUCTION, VOLUME II CONNECTIONS", ASD 9TH EDITION/LRFD 1ST EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
h. "DETAILING FOR STEEL CONSTRUCTION", AMERICAN INSTITUTE OF STEEL CONSTRUCTION.
i. "STRUCTURAL WELDING CODE AWS/A15 D1.1-96", AMERICAN WELDING SOCIETY.
j. "DESIGN MANUAL FOR FLOOR DECKS AND ROOF DECKS", STEEL DECK INSTITUTE.

B. DESIGN DATA:

- 1. GRAVITY - DESIGN DEAD LOADS (INCLUDING STRUCTURE SELF-WEIGHT)
AREA PSF
a. ROOF 65
b. FLOORS 65
2. GRAVITY - LIVE LOADS
LIVE LOADS ON FOUNDATIONS, COLUMNS, BEAMS, ETC. ARE REDUCIBLE IN ACCORDANCE WITH THE IBC BUILDING CODE.

Table with 2 columns: AREA, PSF
a. TYPICAL OFFICES: 80 (+20psf PARTITIONS)
b. CLASSROOM & LABS: 80 (+20psf PARTITIONS)
c. MECHANICAL ROOMS: 150
d. ROOF LIVE LOAD: 30 MINIMUM (SNOW LOAD IS USED WHEN GREATER THAN 30 PSF)

- 3. WIND LOADS
a. MAIN WIND-FORCE RESISTING SYSTEM:
(1) BASIC WIND SPEED: 90 MPH
(2) SITE EXPOSURE CATEGORY: B
(3) WIND IMPORTANCE FACTOR (I): 1.0
b. BUILDING COMPONENTS & CLADDING:
(1) DESIGN IN ACCORDANCE WITH SECTION 6.5.12.4 OF ASCE7. USING FOLLOWING:
(a) BASIC WIND SPEED: 90 MPH
(b) SITE EXPOSURE CATEGORY: B
(c) WIND LOAD IMPORTANCE FACTOR: 1.0
c. NET WIND UPLIFT: 10 PSF
d. ROOF OVERHANGS: COMPLY WITH SECTION 6.5.11.4 OF ASCE7.

- 4. SEISMIC LOADS:
a. STRUCTURAL DESIGN REQUIREMENTS:
(1) SEISMIC USE GROUP: II
(2) SPECTRAL RESPONSE COEFFICIENTS: SD5= 0.312g; SD1= 0.147g
(3) SITE CLASS: E
(4) BASIC SEISMIC FORCE-RESISTING SYSTEM: ORDINARY STEEL CONCENTRICALLY BRACED FRAMES
(5) DESIGN BASE SHEAR: V= 345 KIIPS
(6) ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
b. ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND SYSTEMS: DESIGN COMPLETE SYSTEM IN ACCORDANCE WITH SECTION 1621 OF IBC AND ABOVE INFORMATION.

- 5. LATERAL SOIL LOADS:
a. LATERAL EQUIVALENT FLUID PRESSURE (AS PROVIDED IN GEOTECHNICAL REPORT)
(1) AT REST CONDITION (BRACED WALLS): 49 PSF/FT OF DEPTH
C. FOUNDATIONS/GEOTECHNICAL REPORT:
1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT PREPARED BY SCHWABER ENGINEERING ASSOCIATES, INC., DATED APRIL 9, 2001, REPORT NO. 00121407. SEE THAT REPORT FOR ADDITIONAL REQUIREMENTS.
2. FOUNDATIONS PLACED ON UNDISTURBED SOIL AT ELEVATIONS INDICATED HAVE BEEN DESIGNED FOR A NET ALLOWABLE BEARING PRESSURE AS FOLLOWS:
a. ALL FOOTINGS ON CONTROLLED STRUCTURAL FILL ..... 3000PSF

D. MATERIALS:

- 1. THE FOLLOWING ASTM STANDARDS AND DESIGN STRESSES SHALL BE USED FOR THE APPROPRIATE MATERIALS USED IN THE CONSTRUCTION OF THIS PROJECT.
2. CEMENT: ASTM C150; TYPE I OR II
3. BLENDED HYDRALIC CEMENTS (CEMENT SUBSTITUTES): ASTM C595, TYPE IS (LIMIT TO 25% MAX OF CEMENTITIOUS CONTENT BY WEIGHT)
4. AGGREGATES: ASTM C33 (NORMALWEIGHT)
5. ADMIXTURES:
a. AIR ENTRAINING ADMIXTURES: ASTM C260
b. CHEMICAL ADMIXTURES: ASTM C494

- 6. CONCRETE: AIR-ENTRAIN ALL EXPOSED CONCRETE 6% ± 1 1/2% BY VOLUME UNLESS OTHERWISE NOTED. NO AIR FOR STEEL TROWEL FINISH.
APPLICATION F'C @ 28 DAYS (PSI) W/T (LBS) W/C (MAX)
a. FOOTINGS: 3000 145 0.55
b. WALLS & PIERS: 4000 145 0.50
c. SLABS-ON-GRADE: 3500 145 0.55 0.30 [1.00]
d. NORMALWEIGHT ON STEEL DECK: 3500 145 0.55

- 7. REINFORCEMENT:
a. DEFORMED REINFORCING BARS ASTM A615, GRADE 60
b. WELDABLE DEFORMED REINFORCING BARS ASTM A706
c. WELDED WIRE FABRIC (W/W) ASTM A185
d. ADHESIVE REINFORCING BAR DOWELING SYSTEM HILTI HIT HY-150 SYSTEM OR EQUAL

- 8. MASONRY:
a. CONCRETE MASONRY UNITS: HOLLOW - ASTM C90, TYPE I, GRADE N, MINIMUM COMPRESSIVE STRENGTH ON NET AREA = 1900 PSI
b. MORTAR: ASTM C270 - TYPE M (BELOW GRADE) TYPE S (ABOVE GRADE)

- 9. STEEL:
a. COLUMNS: ASTM A572 OR A592, GRADE 50
b. BEAMS: ASTM A572 OR A592, GRADE 50
c. OTHER STRUCTURAL SHAPES AND PLATES: ASTM A36
d. STRUCTURAL PIPE: ASTM A53, GRADE B, FY=35 KSI OR ASTM A501, FY=36 KSI

- 10. ADHESIVE ANCHORING SYSTEM: ITW RAMSEY/REDHEAD EPOXY SYSTEM, HILTI HVA OR HIT HY-150 SYSTEM OR APPROVED EQUAL.

- 11. GALVANIZED STEEL FLOOR DECK: ASTM A446 AND ASTM A525, G-60
12. GALVANIZED STEEL ROOF DECK: ASTM A446 AND ASTM A525, G-90
13. GROUT: NON-SHRINK, NON-METALLIC, Fc = 5000 PSI

E. CONSTRUCTION:

- 1. GENERAL:
a. DO NOT SCALE DRAWINGS.
b. THESE DRAWINGS REPRESENT THE COMPLETED PROJECT WHICH HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS AND FOR THE SUPERIMPOSED LOADS INDICATED IN THE DESIGN DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND PROVIDE PROPER DESIGN AND CONSTRUCTION OF FORMWORK, FORMWORK STRUKINGS, BRACING, SHEETING AND SHORING, ETC. CONSTRUCTION LOADS EXCEEDING THE COMBINATION OF SUPERIMPOSED DEAD LOAD PLUS SPECIFIED LIVE LOAD ARE NOT PERMITTED ON ANY UNSHORED PORTION OF STRUCTURE UNDER CONSTRUCTION.

- 2. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE SOLIDLY THE RESPONSIBILITY OF THE CONTRACTOR.
d. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, IT, AND SEC DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS, SLEEVES, CONCRETE HOUSEKEEPING PADS, INSERTS, EMBEDS, CURBS, RAMPS, DRAINS, DEPRESSIONS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
e. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION REGARDING FINISHES, FIREPROOFING, WATERPROOFING, ETC.
f. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF MASONRY AND DRYWALL NON-LOAD BEARING PARTITIONS AND EXTERIOR FACE OF BUILDING. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF SUCH PARTITIONS. DESIGN CONNECTIONS TO SUPPORT THE TOP OF THE WALLS LATERALLY FOR THE CODE-REQUIRED LATERAL LOAD. PROVIDE COMPRESSIBLE FIRESTOPPING AT TOP OF WALL IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.

- g. IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, DETAILS AND SPECIFICATIONS, THE MOST RIGID REQUIREMENTS SHALL PREVAIL.
h. REPRODUCTION OF ANY PORTION OF THE STRUCTURAL CONTRACT DRAWINGS FOR RESUBMITTAL AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.
i. SUBMIT SHOP DRAWINGS AT LEAST 15 BUSINESS DAYS BEFORE DATE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT FOR EACH DRAWING ALL FIELD MEASUREMENTS, CONSTRUCTION CRITERIA, MATERIALS AND SIMILAR DATA HAVE BEEN VERIFIED AND CHECKED FOR COMPLETENESS, COORDINATION AND COMPLIANCE WITH THE CONTRACT DOCUMENTS. SUBMIT TWO SETS OF PRINTS AND ONE SET OF SEPIAS. ONE MARKED UP SET OF SEPIAS WITH COMMENTS BY STRUCTURAL ENGINEER OF RECORD WILL BE RETURNED.

- 2. BACKFILL:
a. USE BACKFILL MATERIAL CONSISTING OF BANK RUN GRAVEL, CRUSHED STONE AND/OR MATERIAL APPROVED BY THE GEOTECHNICAL ENGINEER WITH OPTIMUM MOISTURE CONTENT FOR COMPACTING AND FREE OF ANY DEBRIS.
b. DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL THE UPPER BRACING FLOORS ARE IN PLACE FOR AT LEAST 7 DAYS AND CONCRETE HAS ATTAINED 70% OF DESIGN STRENGTH, OR ADEQUATE TEMPORARY BRACING IS INSTALLED.
c. WHERE THE FINAL GRADE ELEVATIONS ARE APPROXIMATELY EQUAL ON BOTH SIDES OF A WALL, BACKFILL IN LIFTS TO MAINTAIN LEVEL ELEVATIONS WITHIN 12" ON BOTH SIDES AT ANY TIME TO PREVENT LATERAL MOVEMENT AND/OR OVERTURNING.

- (1) NON-LOAD BEARING STUD WALL (INCLUDING EXTERIOR WALLS) AND CURTAINWALL SYSTEMS AND RELATED CONNECTIONS: DESIGN FOR ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. PROVIDE SLIP CONNECTIONS THAT ALLOW VERTICAL MOVEMENT AT THE HEADS OF WALLS. DESIGN BACK-UP SYSTEM AND CURTAINWALL FOR A MAXIMUM HORIZONTAL DEFLECTION OF 1/600 OF THE SPAN IN INCHES, OR 3/8", WHICHEVER IS LESS, AT THE APPLICABLE DESIGN WIND LOAD.

- (2) METAL STAIRS AND RAILINGS: DESIGN FOR ALL VERTICAL AND LATERAL LOADS REQUIRED BY APPLICABLE BUILDING CODES. WHERE HEADERS OR OTHER TYPES OF STRUCTURAL MEMBERS HAVE BEEN DESIGNATED BY THE STRUCTURAL ENGINEER OF RECORD TO SUPPORT THE STAIRS, DESIGN CONNECTIONS FROM THE STAIRS SO THAT NO ECCENTRIC OR TORSIONAL FORCES ARE INDUCED INTO THESE STRUCTURAL MEMBERS. FURNISH AND INSTALL EMBEDS AND HARDWARE AS REQUIRED BY THE STAIR DESIGN.

- k. SUBMIT DIMENSIONED SHOP DRAWINGS AT ALL LEVELS LOCATING FLOOR AND ROOF EDGES FOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD.

l. SUBMIT DIMENSIONED COORDINATED SHOP DRAWINGS AT ALL LEVELS SHOWING THE LOCATIONS OF ALL SLEEVES AND OPENINGS REQUIRED BY ALL TRADES. ANY ADDITIONAL OPENINGS NOT SHOWN ON SHOP DRAWINGS WILL REQUIRE APPROVAL OF STRUCTURAL ENGINEER OF RECORD.

m. PROVIDE AND ALLOWANCE NOT TO EXCEED \$40,000. AND A UNIT COST (\$ PER TON) INCLUDING FABRICATION AND ERECTION FOR ADDITIONAL STRUCTURAL STEEL WHICH WILL BE ADDED AT THE DISCRETION OF THE STRUCTURAL ENGINEER OF RECORD AND RECORDED BY THE ON-SITE INSPECTION AGENCY. THE UNUSED AMOUNT OF THE ALLOWANCE WILL BE CREDITED BACK TO THE OWNER AT THE COMPLETION OF THE WORK.

- n. STORE AND HANDLE STRUCTURAL CONSTRUCTION MATERIALS TO PREVENT ANY ADVERSE EFFECTS ON THE PHYSICAL PROPERTIES OF THE MATERIAL.

- o. PAY ALL COSTS, INCLUDING INVESTIGATION AND/OR REDESIGN, DUE TO CONTRACTOR MISLOCATION OF STRUCTURAL ELEMENTS OR OTHER LACK OF CONFORMANCE WITH THE CONTRACT DOCUMENTS TO BRING WORK IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

F. FOUNDATIONS & STRUCTURAL EARTHWORK:

- 1. GENERAL:
a. REFER TO PROJECT SPECIFICATION AND GEOTECHNICAL REPORT REQUIREMENTS FOR EXCAVATION AND PREPARATION OF THE FOUNDATION AND SLAB-ON-GRADE SUBGRADES, INCLUDING COMPACTION PROCEDURES. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK.
b. VERIFY ALL EXISTING FIELD CONDITIONS THAT MAY AFFECT THE INSTALLATION OF THE FOUNDATION SYSTEM AS SHOWN PRIOR TO STARTING WORK.

- c. DESIGN, INSTALL, MAINTAIN, MONITOR AND REMOVE DEWATERING AND EARTH RETENTION SYSTEMS. COORDINATE ELEMENTS OF EARTH RETENTION SYSTEM WITH PERMANENT BUILDING ELEMENTS. DESIGN EARTH RETENTION SYSTEM UNDER THE DIRECT SUPERVISION OF AN ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. SUBMIT CALCULATIONS, SHOP DRAWINGS AND SEQUENCE PLAN BEARING ENGINEER'S SEAL AND SIGNATURE.
d. PROTECT EXISTING AND NEW STRUCTURES, CURBS, STREETS, ETC FROM DAMAGE BY CONSTRUCTION EQUIPMENT. REPAIR DAMAGE OF EXISTING AND NEW CONSTRUCTION CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENT OF EARTH RETENTION SYSTEM.

- e. REFER TO PLUMBING DRAWINGS FOR PERIMETER DRAIN AND UNDERFLOOR DRAINAGE SYSTEM.
f. DO NOT PLACE UTILITY LINES THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
g. BEAR ALL FOUNDATIONS ON COMPACTED STRUCTURAL FILL. BEARING ELEVATIONS ARE ESTIMATED FROM SOIL BORING DATA INDICATED IN THE GEOTECHNICAL REPORT. DETERMINATION OF ALLOWABLE BEARING PRESSURE SHALL BE MADE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS. NOTIFY STRUCTURAL ENGINEER OF RECORD WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL.

- h. BEAR FOUNDATIONS A MINIMUM OF 2'-6" BELOW GRADE UNLESS OTHERWISE INDICATED. IN CASE OF CONFLICT, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD IN ADVANCE OF ANY CONSTRUCTION TO ALLOW FOR ADJUSTMENT. IF FOOTING BEARING OCCURS ON EXPANSIVE CLAY MATERIAL, AS OBSERVED BY THE ON-SITE GEOTECHNICAL INSPECTOR, THE FOOTING IS TO BE LOWERED TO A MINIMUM OF 4'-0" BELOW GRADE.
i. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOOTINGS NOT TO EXCEED 1:3 TO 1:6 WITH THE HORIZONTAL, UNLESS INDICATED OTHERWISE IN THE GEOTECHNICAL REPORT. PROTECT SUBGRADES, SLOPES AND FOOTINGS FROM DAMAGES CAUSED BY LATERAL MOVEMENT, UNDERMINING, WASHOUT, SETTLEMENT AND OTHER HAZARDS CREATED BY EXCAVATION.

- j. DO NOT USE EARTH CUTS AS FORMS FOR VERTICAL SURFACES UNLESS APPROVED IN ADVANCE BY STRUCTURAL ENGINEER OF RECORD.
k. PLACE CONCRETE FOR FOUNDATIONS OR MUD SLABS ON THE SAME DAY SUBGRADE APPROVAL IS GIVEN BY THE GEOTECHNICAL ENGINEER.
l. PROTECT CONCRETE FOUNDATIONS FROM FREEZING DURING PLACING AND FOR A PERIOD OF NOT LESS THAN 5 DAYS THEREAFTER.

- m. PROVIDE CONTINUOUS WATERSTOP AT ALL HORIZONTAL AND VERTICAL CONSTRUCTION BASEMENT WALLS AND ALL ELEVATOR PIT AND OTHER PIT WALLS.
n. DO NOT DISPOSE OF ANY LIQUIDS, SLURRY, SPOILS OR CHEMICALS ON THE SITE EXCEPT AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL RESOURCES OR OTHER AGENCIES HAVING JURISDICTION.

H. MASONRY:

- 1. SUBMIT GROUT MIX DESIGN AND MASONRY UNIT CERTIFICATIONS FOR APPROVAL.
2. PROVIDE ADEQUATE BRACING AND SUPPORT OF MASONRY UNTIL PERMANENT CONSTRUCTION IS IN PLACE.
3. IN GROUTED AND/OR REINFORCED MASONRY WALLS, USE MASONRY UNITS WITH CORES THAT ALIGN VERTICALLY TO PROVIDE CONTINUOUS UNOBSTRUCTED CELLS FOR GROUTING AND REINFORCING STEEL PLACEMENT.
4. LAP SPLICES FOR DEFORMED REINFORCING BARS USED IN MASONRY CONSTRUCTION TO BE 50 BAR DIAMETERS.
5. PROVIDE STANDARD WEIGHT GALVANIZED HORIZONTAL JOINT REINFORCEMENT IN ALL WALLS AND PARTITIONS AT 16" O.C. UNLESS OTHERWISE SHOWN OR NOTED. PROVIDE ONE PIECE PREFABRICATED UNITS AT 8" O.C. AT ALL WALL CORNERS AND INTERSECTIONS.

- 3. STRUCTURAL FILL:
a. REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT REQUIREMENTS FOR COMPACTED STRUCTURAL FILL. REQUIREMENTS CONTAINED IN THE GEOTECHNICAL REPORT ARE PART OF THIS WORK. INSPECTION OF THE PLACEMENT OF COMPACTED STRUCTURAL FILL SHALL BE BY AN EXPERIENCED, QUALIFIED GEOTECHNICAL ENGINEER.

G. CONCRETE:

- 1. CAST-IN-PLACE:
a. COMPLY WITH REQUIREMENTS OF "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301-96) EXCEPT AS MODIFIED BY THESE NOTES AND PROJECT SPECIFICATION. KEEP COPY OF "ACI FIELD REFERENCE MANUAL, SP-15" IN FIELD OFFICE.
b. PROVIDE MINIMUM CLEAR COVER FOR REINFORCING AS FOLLOWS UNLESS OTHERWISE NOTE:

(1) NON-POST-TENSIONED CONCRETE:
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 BARS AND LARGER: 2"
#5 BARS AND SMALLER: 1-1/2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
SLABS, WALL, JOISTS:
#11 BARS AND SMALLER: 3/4"
BEAMS, COLUMNS:
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS: 1-1/2"

- c. SPLICE REINFORCEMENT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER OF RECORD. MAKE BARS CONTINUOUS AROUND CORNERS. SPLICES SHALL BE MADE BY CONTACT TENSION LAP SPLICES, UNLESS OTHERWISE NOTED.
d. WELDING OF REINFORCING IS NOT PERMITTED UNLESS SPECIFICALLY CALLED FOR OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.
e. FIELD BONDING OF REINFORCING PARTIALLY EMBEDDED IN CONCRETE IS NOT PERMITTED UNLESS OTHERWISE SHOWN OR APPROVED BY STRUCTURAL ENGINEER OF RECORD.

- f. SUPPLY WELDED WIRE FABRIC REINFORCEMENT IN SHEETS. LAP TWO FULL MESH LENGTHS AT SPLICES AND WIRE TOGETHER.
g. FURNISH ALL ACCESSORIES, CHAIRS, SPACE BARS, SUPPORTS, ETC. NECESSARY TO SECURE REINFORCING.
h. PROVIDE PLASTIC TIPPED BOLSTERS AND CHAIRS AT ALL LOCATIONS WHERE THE CONCRETE SURFACE IS IN CONTACT WITH THE BOLSTERS OR CHAIRS IS EXPOSED.

- i. PROVIDE 5" THICK CONCRETE SLAB-ON-GRADE, PLACED ON A VAPOR RETARDER OVER A MINIMUM 4" LAYER OF CLEAN, WELL-GRADED GRAVEL OR CRUSHED STONE OVER COMPACTED SUBGRADE, UNLESS OTHERWISE NOTED. REINFORCE WITH 6#6 W2@24" WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. REFER TO GEOTECHNICAL REPORT FOR REQUIRED IN-PLACE DENSITY OF SUBGRADE SOILS.
j. ARRANGE CONSTRUCTION JOINTS AND CONTROL JOINTS IN SLABS-ON-GRADE TO LIMIT MAXIMUM AREA BETWEEN JOINTS TO 500 S.F. APPROXIMATELY SQUARE. ALLOW A MINIMUM OF 48 HOURS TIME BETWEEN PLACEMENT OF ADJACENT SECTIONS.

- k. PROVIDE ADDITIONAL BARS AT RE-ENTRANT CORNERS AND AROUND ALL WALL AND SLAB OPENINGS AS INDICATED IN DETAILS. PROVIDE A MINIMUM OF 2 #5 X 8'-0" AT EACH CORNER.
l. CAST-IN-PLACE INSERTS AND SLEEVES WHENEVER FEASIBLE.
m. PLACING SLEEVES THROUGH CONCRETE ELEMENTS IS NOT PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. PREPARED SHOP DRAWINGS OR SPECIFICALLY AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.

- n. LOCATE CONSTRUCTION JOINTS AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE.
o. LOCATE CONSTRUCTION JOINTS FOR SLABS ON METAL DECK MIDWAY BETWEEN BEAMS WHERE THE JOINT IS PARALLEL TO THE BEAM SPAN. LOCATE JOINTS WITHIN THE MIDDLE THIRD OF SPAN WHERE THE JOINT IS PERPENDICULAR TO THE BEAM SPAN. SUBMIT SHOP DRAWINGS INDICATING PROPOSED JOINT LOCATIONS AND REINFORCING STEEL TO BE PLACED IN THE SLAB. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. REINFORCING TO BE CONTINUOUS THROUGH JOINTS.

- p. LOCATING JOINTS IN HORIZONTAL PLANE OF FOUNDATIONS, PILE CAPS, DRILLED PIERS, SLABS, BEAMS, ORDERS AND JOISTS IS NOT PERMITTED, UNLESS OTHERWISE SHOWN.
q. FINISH CONCRETE SLABS FLAT AND LEVEL WITHIN TOLERANCE TO THE ELEVATION INDICATED ON THE DRAWINGS. PROVIDE ADDITIONAL CONCRETE REQUIRED DUE TO FORMWORK AND FRAMING DEFLECTION TO ACHIEVE THIS FINISHED TOP OF SLAB ELEVATION. FOR SLABS ON STEEL DECK, ANTICIPATE A MINIMUM TEN PERCENT INCREASE IN CONCRETE VOLUME FOR UNSHORED CONSTRUCTION, UNLESS OTHERWISE NOTED.

- r. CORE DRILLING FOUNDATIONS OR SLABS IS NOT PERMITTED UNLESS AUTHORIZED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
s. CHAMFER EXPOSED CONCRETE CORNERS, 3/4" X 3/4" MINIMUM, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
t. POWDER DRIVEN FASTENERS ARE PERMITTED ONLY WHEN PROVEN TO THE SATISFACTION OF THE STRUCTURAL ENGINEER OF RECORD THAT THE FASTENERS WILL NOT SPALL THE CONCRETE AND HAVE THE SAME CAPACITY AS CAST-IN-PLACE INSERTS. TAKE MEASURES TO AVOID DRILLING EXISTING REINFORCING AND DESTRUCTION OF CONCRETE.

- u. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, TAKE MEASURES TO AVOID DRILLING OR CUTTING OF EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. BLOW HOLES CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.

- 6. PROVIDE MASONRY ANCHORS AT 16" O.C. SET ON COURSING AND ATTACHED TO ALL BEAMS, COLUMNS, PARTITIONS AND WALLS ABUTTING OR EMBEDDED IN MASONRY.
7. ANCHOR OR BOND PIERS AND PARTITIONS TO ADJACENT MASONRY WALLS.
8. PROVIDE BOND BEAMS WITH #4 HORIZONTAL REINFORCEMENT CONTINUOUS AT THE TOP OF ALL MASONRY WALLS.
9. THE PIERS AND PARTITIONS TO ADJACENT FLOOR AND ROOF CONSTRUCTION IN ACCORDANCE WITH DETAILS ON DRAWINGS.

- 10. REFER TO SPECIFICATIONS FOR GENERAL EXPANSION JOINT AND CONTROL JOINT REQUIREMENTS FOR ALL WALLS AND PARTITIONS.
11. PROVIDE LINTELS OF LOOSE STEEL ANGLES, PRECAST CONCRETE, OR REINFORCED CONCRETE BLOCK (CONTRACTOR'S OPTION UNLESS SHOWN OTHERWISE ON THE DRAWINGS) FOR NON-LOAD BEARING WALLS AND PARTITIONS AS FOLLOWS:
STEEL LINTELS: PROVIDE HOT-DIP GALVANIZED FINISH AT EXTERIOR CONDITIONS:
FOR EACH 4" THICKNESS OF WALL:
OPENING ≤ 4'-0": 1 1/2 #3 @ 24"
4'-0" < OPENING ≤ 6'-0": 1 #4 @ 24" (LIV)
6'-0" < OPENING ≤ 8'-0": 1 #5 @ 24" (LIV)
8'-0" < OPENING ≤ 10'-0": (1) W8x15 W 7/16 SUSP @ 24" PL UP TO A 12" THICK WALL MAXIMUM

- REINFORCED CMU LINTELS: PROVIDE MINIMUM 8" BEARING EACH END.
OPENING ≤ 4'-0": LINTEL SIZE = WALL THICKNESS X 8" DEEP REINFORCED W/2 #4 BOTTOM UP TO 8" THICK REINFORCED W/3 #4 BOTTOM OVER 8" THICK
4'-0" < OPENING ≤ 8'-0": LINTEL SIZE = WALL THICKNESS X 16" DEEP REINFORCED W/2 #5 BOTTOM UP TO 8" THICK REINFORCED W/3 #5 BOTTOM OVER 8" THICK & #3 STIRRUPS AT 6" O.C.

- PRECAST CONCRETE LINTELS: PROVIDE MINIMUM 8" BEARING EACH END.
OPENING ≤ 4'-0": LINTEL SIZE = WALL THICKNESS X 8" DEEP REINFORCED W/2 #4 BOTTOM.
4'-0" < OPENING ≤ 8'-0": LINTEL SIZE = WALL THICKNESS X 16" DEEP REINFORCED W/2 #5 BOTTOM.

- 12. VERIFY ALL OPENINGS BELOW LINTELS INDICATED ARE ADEQUATE TO ACCEPT DOOR FRAMES, LOUVERS, ETC. AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO LINTEL INSTALLATION.
13. DO NOT PLACE OPENINGS ABOVE ANY LINTEL WITHIN A HEIGHT LESS THAN OR EQUAL TO THE WIDTH OF THE CLEAR OPENING BELOW THE LINTEL, UNLESS SPECIFICALLY SHOWN OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.

I. STRUCTURAL STEEL:

- 1. SUBMIT CERTIFIED COPIES OF MILL TEST REPORTS TO THE STRUCTURAL ENGINEER OF RECORD FOR REVIEW PURPOSES ONLY.
2. PROVIDE ACCESS FOR INSPECTION OF ALL SHOP AND FIELD CONNECTIONS FOR PROPER MATERIALS AND WORKMANSHIP.
3. OBTAIN CURRENT EVIDENCE OF WELDERS PASSING THE APPROPRIATE AWS QUALIFICATION TESTS. SUCH EVIDENCE MAY BE REQUESTED AT ANY TIME DURING THE PROJECT.
4. PERMANENT FRAMING AND FINAL CONNECTION DETAILS ARE SHOWN ON THE DRAWINGS. THE FABRICATOR AND ERECTOR ARE RESPONSIBLE FOR THE DESIGN OF TEMPORARY BRACING AND RECOMMENDED ERECTION PROCEDURES.

- 5. ALTERNATE CONNECTION DESIGNS SHALL ONLY BE ALLOWED WITH PRIOR APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD. IF SUCH APPROVAL IS GRANTED, DESIGN ALL CONNECTIONS, SPLICES AND ERECTION PIECES NOT IN ACCORDANCE WITH CONTRACT DRAWINGS (FABRICATOR REDESIGN) UNDER THE DIRECT SUPERVISION OF ENGINEER REGISTERED IN THE PROJECT'S JURISDICTION. SUBMIT CALCULATIONS AND SHOP DRAWINGS BEARING ENGINEER'S SEAL AND SIGNATURE.
6. PROVIDE HIGH STRENGTH BOLTS OR WELDS FOR ALL SHOP AND FIELD CONNECTIONS. USE HIGH STRENGTH BOLTS AND NUTS WITH CLEAR MARKINGS AS REQUIRED BY AISC SPECIFICATIONS. CONNECTIONS MADE WITH UNMARKED BOLTS AND NUTS WILL BE REJECTED.

- 7. SELECT CONNECTIONS FOR REACTIONS SHOWN ON PLANS AND AS DETAILED AND SCHEDULED. PROVIDE CONNECTIONS CONSISTING OF A MINIMUM OF TWO 3/4" DIA. A325-N BOLTS AND/OR WELDS DEVELOPING NOT LESS THAN 10,000 POUNDS. MINIMUM WELD 3/16" FILLET.
8. TIGHTEN ALL A325 BOLTS TO THE "SNUG TIGHT" CONDITION DEFINED AS THE TIGHTNESS ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN USING AN ORDINARY SPUD WRENCH, UNLESS OTHERWISE NOTED. THE "SNUG TIGHT" CONDITION MUST ENSURE THAT THE PILES OF THE CONNECTED MATERIAL HAVE BEEN BROUGHT INTO SNUG CONTACT.

- 9. PRE-TENSION ALL A325 BOLTS SUBJECT TO DIRECT TENSION OR DESIGNATED AS SC (SLIP-CRITICAL) IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS AS DESCRIBED IN THE AISC "MANUAL OF STEEL CONSTRUCTION": TURN-OF-NUT TIGHTENING, CALIBRATED WRENCH TIGHTENING OR DIRECT TENSION INDICATOR TIGHTENING.
10. PROVIDE TWO (2) COATS OF BITUMINOUS PAINT - OR 3" MINIMUM CONCRETE COVER ALL STEEL AT AND BELOW FINISHED GRADE OR FLOOR SLAB.

- 11. POWER TOOL CLEAN AND PAINT WITH THREE COATS OF OIL BASE PAINT IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COLOR PAINTING SYSTEM SPECIFICATION NO. 1.09 ALL STRUCTURAL STEEL THAT IS LOCATED IN EXTERIOR UNHEATED SPACES.
12. HOT-DIP GALVANIZE ALL STRUCTURAL STEEL DIRECTLY EXPOSED TO WEATHER.
13. CAMBER INDICATED ON THESE DRAWINGS IS THE REQUIRED CAMBER AT TIME OF ERECTION.

- 14. FOR CONCRETE SLABS THAT ARE PART OF COMPOSITE FLOOR FRAMING SYSTEMS, ACHIEVE 28-DAY DESIGN STRENGTH PRIOR TO THE APPLICATION OF ANY SUPERIMPOSED LOADS SUCH AS CURTAIN WALLS, MASONRY VENEERS, STAIRS, ETC.
15. NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ANY FABRICATION OR ERECTION ERRORS OR DEVIATIONS AND RECEIVE WRITTEN APPROVAL BEFORE ANY FIELD CORRECTIONS ARE MADE.

- 16. REPLACE OR REINFORCE ANY STRUCTURAL STEEL DAMAGED IN WELDING AS ACCEPTABLE TO THE STRUCTURAL ENGINEER OF RECORD.
17. FIELD CUTTING WITH GAS TORCH IS NOT PERMITTED EXCEPT BY APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

- 18. WHEN INSTALLING EXPANSION BOLTS OR ADHESIVE ANCHORS, TAKE MEASURES TO AVOID DRILLING OR CUTTING OF ANY EXISTING REINFORCING AND DESTRUCTION OF CONCRETE. BLOW HOLES CLEAN PRIOR TO PLACING BOLTS OR ADHESIVE ANCHORS.
19. PROVIDE STEEL GRATING OF DEPTH SHOWN ON ARCHITECTURAL DRAWINGS. DESIGN GRATING FOR A UNIFORM LOAD OF 100 PSF OR CONCENTRATED LOAD OF 1,000 POUNDS (APPLIED OVER A 1 FOOT WIDTH) AT MIDSPAN, WHICHEVER PRODUCES MAXIMUM STRESSES. ALL GRATING SHALL BE GALVANIZED PER ASTM A525, CLASS G90.

J. STEEL DECK:

- 1. DECK PROPERTIES ARE BASED ON PRODUCTS MANUFACTURED BY UNITED STEEL DECK, INC. (USD). DECKS BY OTHER MANUFACTURERS MAY BE SUPPLIED PROVIDED SECTION PROPERTIES ARE WITHIN 5% OF THOSE SPECIFIED AND IF APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD. SUBMIT MANUFACTURER'S LOAD TABLES AND PROPERTY DATA.
2. PROVIDE STEEL DECK WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:
a. 2" DEEP 18 GAGE LOK-FLOOR COMPOSITE FLOOR DECK: I = 0.560 in4, Sp = 0.523 in3, Sn = 0.529 in3
b. 1 1/2" DEEP 22 GAGE TYPE B ROOF DECK: I = 0.17 in4, Sp = 0.19 in3, Sn = 0.20 in3

- 3. INSTALL DECK IN ACCORDANCE WITH SDI SUGGESTED SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS. EXTEND INDIVIDUAL SHEETS OVER AT LEAST THREE SPANS, WITH LAPS TO BE PLACED OVER SUPPORTS.
4. PROVIDE ADDITIONAL FRAMING TO SUPPORT DECK AT OPENINGS THROUGH DECK AND ALL CLOSURE ANGLES AND PLATES WHERE REQUIRED TO RESULT IN A COMPLETE INSTALLATION. REFER TO ARCHITECTURAL AND MEP DRAWINGS FOR OPENING LOCATIONS AND SIZES.
5. WELD ROOF AND NON-COMPOSITE DECKS TO STEEL SUPPORTS, INCLUDING THE EDGE SUPPORT PARALLEL TO THE DECK SPAN WITH 5/8" DIAMETER (EFFECTIVE FUSION DIAMETER) PLUG WELDS, 24/3, 30/4 OR 36/4 PATTERNS. FASTEN SIDE LAPS WITH 1-1/2" SEAM WELDS OR #10 SELF-TAPPING SCREWS AT 18" O.C. MAXIMUM SPACING.

- 6. WELD COMPOSITE DECKS TO ALL SUPPORTS INCLUDING THE EDGE SUPPORT PARALLEL TO THE DECK SPAN WITH 5/8" DIAMETER (EFFECTIVE FUSION DIAMETER) PLUG WELDS OR HEADED STUD WELDS AT 12" O.C. FASTEN SIDE LAPS WITH 1-1/2" SEAM WELDS OR #10 SELF-TAPPING SCREWS AT 30" O.C. FIELD INSTALL HEADED SHEAR STUDS BY WELDING THROUGH THE METAL DECK. REMOVE FERRULES FROM THE DECK BEFORE CONCRETE IS PLACED.

- 7. THE NUMBER OF STUDS (N) PER BEAM SHOWN ON PLANS IS BASED ON AN ASSUMED DESIGN VALUE FOR HORIZONTAL SHEAR OF 12.5 KIIPS PER STUD FOR NORMAL WEIGHT CONCRETE. THE ACTUAL NUMBER OF STUDS MAY VARY BASED ON RIB WIDTH, NUMBER OF STUDS PER CELL, DECK RIB ORIENTATION AND DECK DEPTH AS PER AISC SPECIFICATION. SUBMIT RECORD COPY OF CALCULATIONS VERIFYING THE HORIZONTAL SHEAR CAPACITY OF STUDS DETAILED ON THE SHOP DRAWINGS. PROVIDE ALL EXTRA STUDS REQUIRED AT NO ADDITIONAL COST.

- 8. VERIFY WITH DECK MANUFACTURER THAT CONCRETING OPERATIONS ARE COMPATIBLE WITH TYPE, GAGE AND SPAN OF COMPOSITE DECK. PLAN AND USE CARE IN CONCRETING OPERATIONS SO AS TO NOT OVERLOAD OR DAMAGE THE COMPOSITE DECK.

General Notes

T\_HC\_ORIG-CONSTRUCT\_S-001
PROJECT NO: 3449801
DATE:

GREENHORNE & O'MARA
EDAW
Civil Engineering
Landscape Architecture

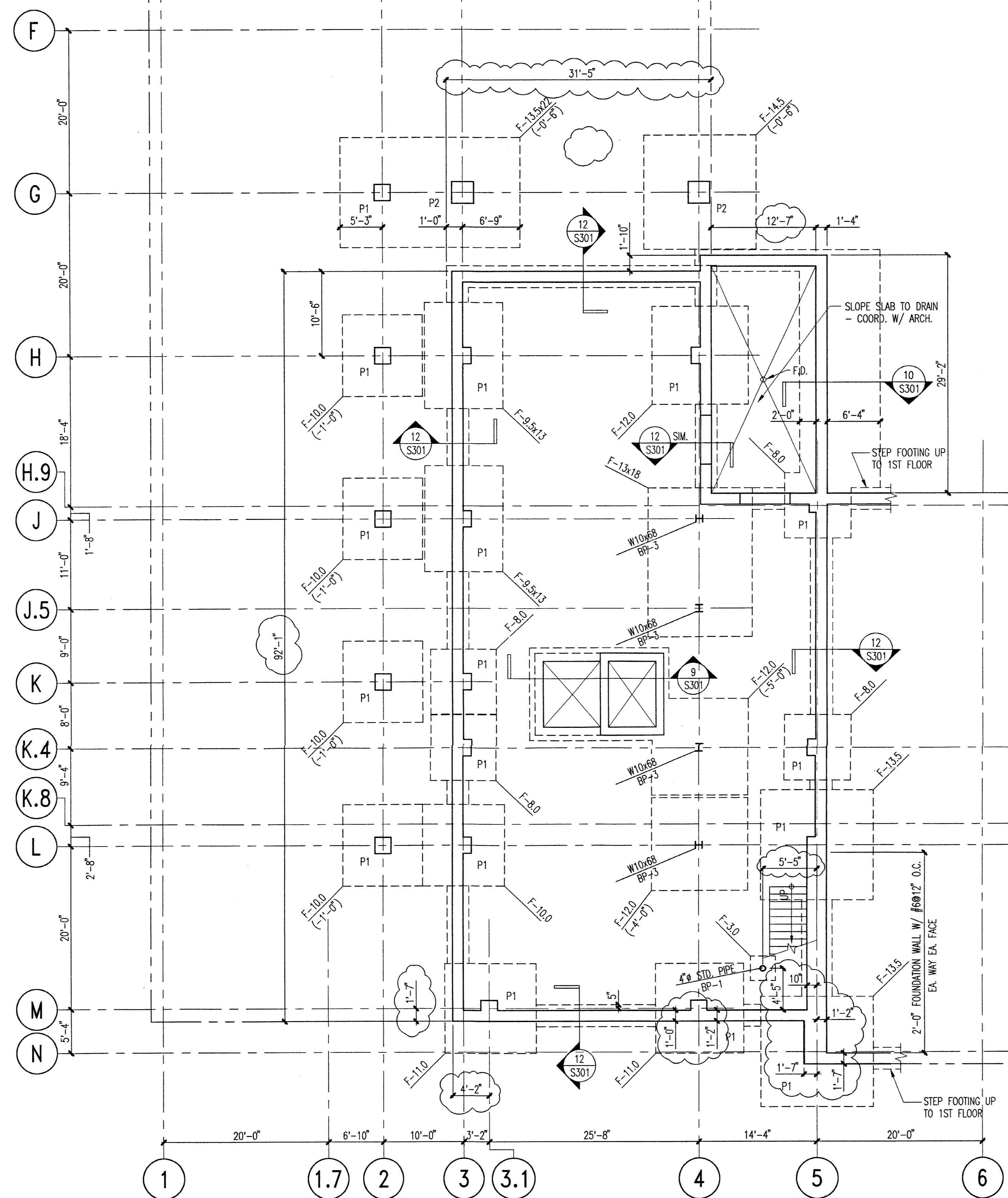
DEPARTMENT OF GENERAL SERVICES
APPROVAL

PROJECT MANAGER
DATE
DATE

General Notes
MONTGOMERY COLLEGE
Takoma Park Campus Expansion
13th Edition, October 2007
Montgomery County, Maryland

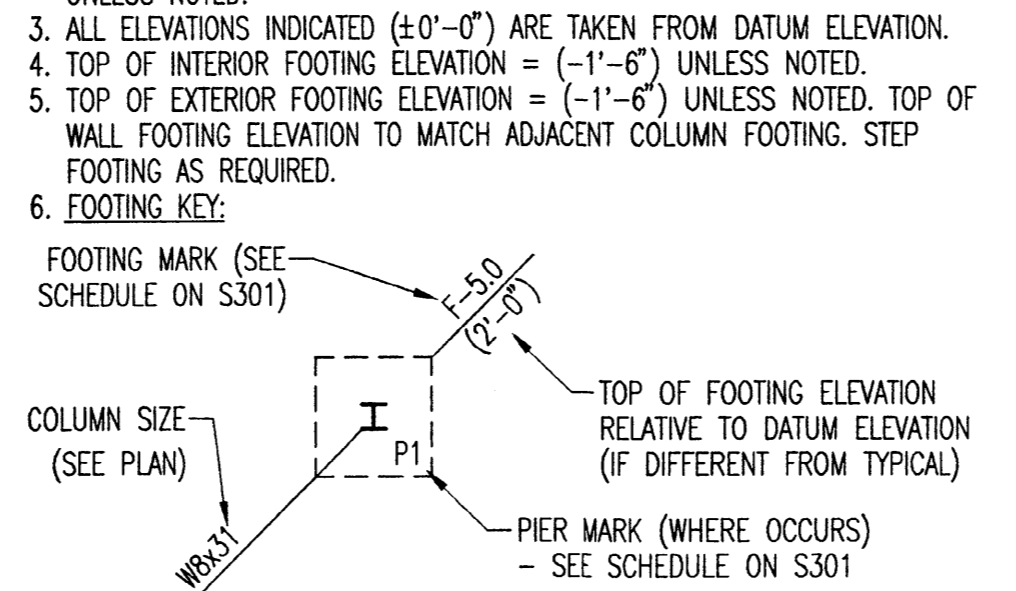
HEALTH SCIENCES BUILDING
MONTGOMERY COLLEGE
SILVER SPRING, MARYLAND

S001
SHEET \_\_\_ OF \_\_\_

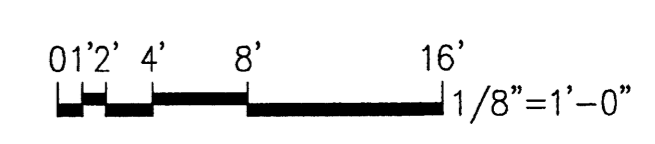


**FOUNDATION/BASEMENT FLOOR PLAN**  
 1/8" = 1'-0"

- PLAN NOTES:**
- SLAB ON GRADE TO BE 5" THICK CONCRETE REINFORCED WITH 6x6 W2.1xW2.1 WWF. PROVIDE SUPPORT CHAIRS TO HOLD WWF IN POSITION DURING CONCRETE PLACEMENT. (TYP. UNL.O.)
  - TOP OF SLAB IS AT ELEVATION = 339'-4" = DATUM ELEVATION 0'-0" UNLESS NOTED.
  - ALL ELEVATIONS INDICATED (±0'-0") ARE TAKEN FROM DATUM ELEVATION.
  - TOP OF INTERIOR FOOTING ELEVATION = (-1'-6") UNLESS NOTED.
  - TOP OF EXTERIOR FOOTING ELEVATION = (-1'-6") UNLESS NOTED. TOP OF WALL FOOTING ELEVATION TO MATCH ADJACENT COLUMN FOOTING. STEP FOOTING AS REQUIRED.
  - FOOTING KEY:
  - ALL PIERS, COLUMNS AND FOOTINGS SHALL BE CENTERED ON GRID LINES UNLESS NOTED.
  - SEE S301 FOR GENERAL NOTES.
  - SEE S301 AND S302 FOR TYPICAL DETAILS.
  - SEE S303 FOR COLUMN AND BASE PLATE SCHEDULES AND DETAILS.



Foundation/Basement Floor Plan



T\_HC\_ORIG-CONSTRUCT\_S-101  
 Foundation/Basement Floor Plan

HEALTH SCIENCES BUILDING  
 MONTGOMERY COLLEGE  
 SILVER SPRING, MARYLAND

PROJECT NO. 34496.01  
 DATE: S101  
 SHEET \_OF\_

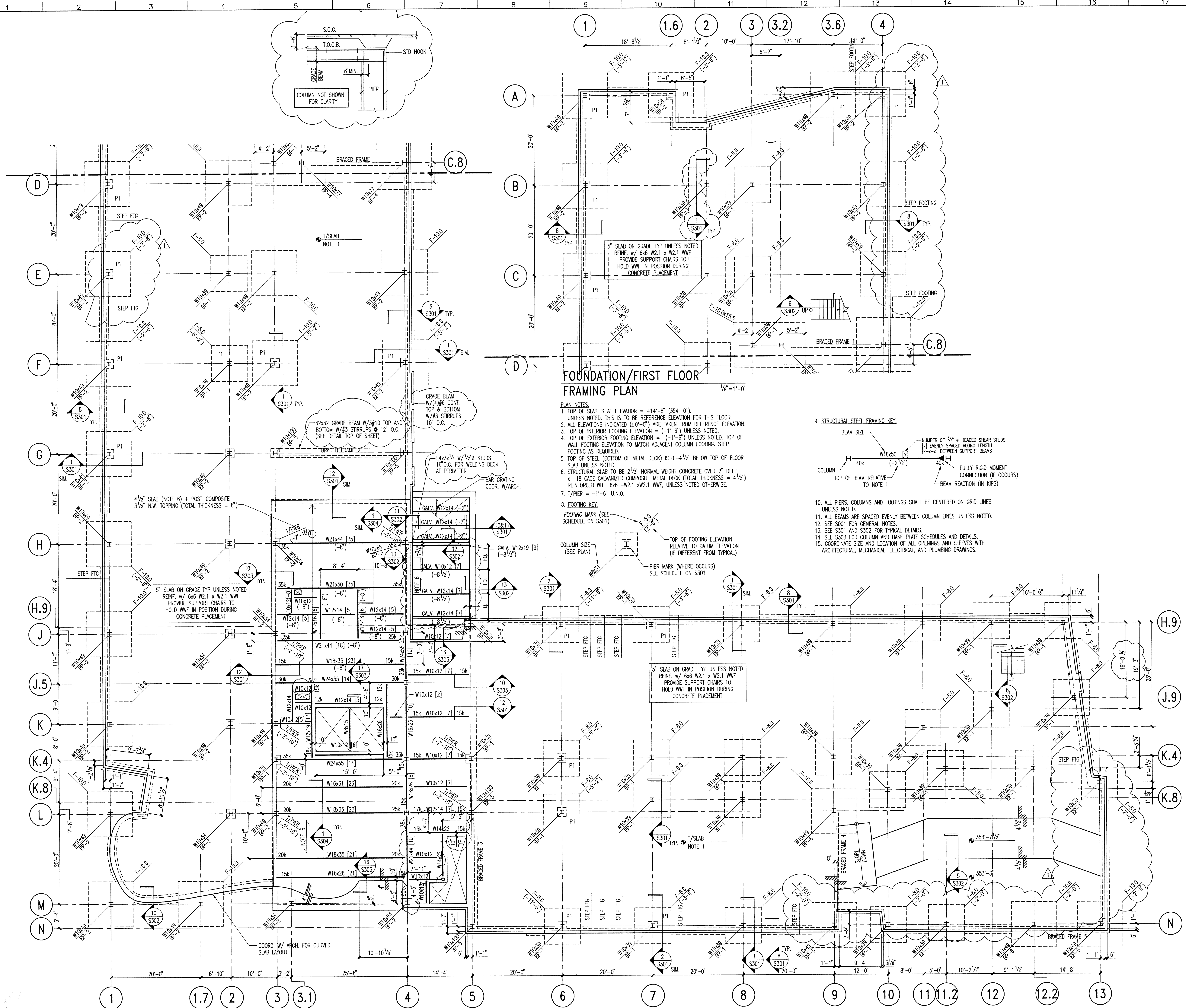
MONTGOMERY COLLEGE  
 Takoma Park Campus Expansion  
 13th Election District  
 Montgomery County, Maryland

DEPARTMENT OF GENERAL SERVICES  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

MONTGOMERY COLLEGE  
 APPROVAL  
 PROJECT MANAGER  
 CHIEF - PROJ. MGT. & DESIGN

GREENHORNE & O'MARA  
 EDAW  
 Civil Engineering  
 Landscape Architecture

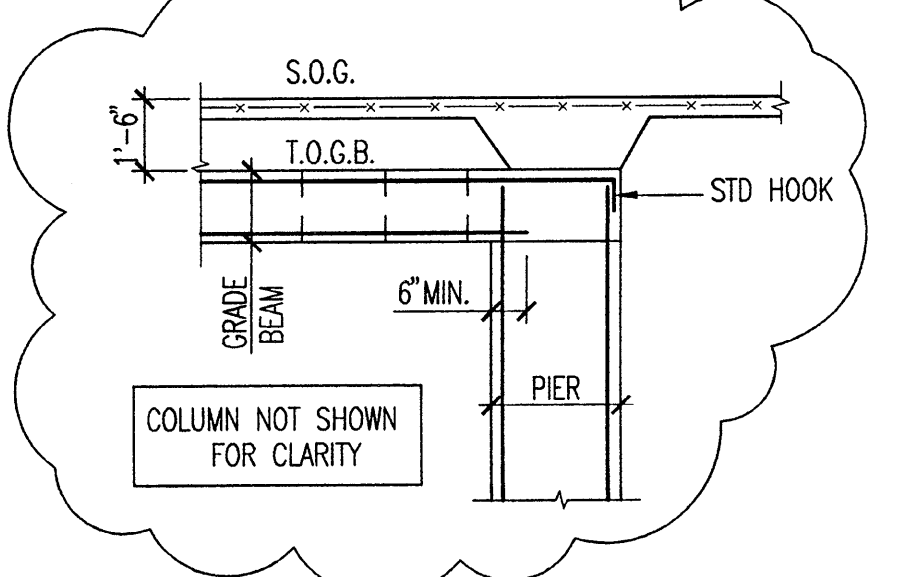
DATE  
 TITLE  
 DATE



**FOUNDATION/FIRST FLOOR FRAMING PLAN**

- PLAN NOTES:**
- TOP OF SLAB IS AT ELEVATION = +14'-8" (354'-0"). UNLESS NOTED, THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  - ALL ELEVATIONS INDICATED (+/-'-0") ARE TAKEN FROM REFERENCE ELEVATION.
  - TOP OF INTERIOR FOOTING ELEVATION = (-1'-6") UNLESS NOTED.
  - TOP OF EXTERIOR FOOTING ELEVATION = (-1'-5") UNLESS NOTED. TOP OF WALL FOOTING ELEVATION TO MATCH ADJACENT COLUMN FOOTING. STEP FOOTING AS REQUIRED.
  - TOP OF STEEL (BOTTOM OF METAL DECK) IS 0'-4 1/2" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  - STRUCTURAL SLAB TO BE 2 1/2" NORMAL WEIGHT CONCRETE OVER 2" DEEP x 18 GAGE GALVANIZED COMPOSITE METAL DECK (TOTAL THICKNESS = 4 1/2") REINFORCED WITH 6x6 W2.1 x W2.1 WWF, UNLESS NOTED OTHERWISE.
  - 1/PIER = -1'-6" U.N.O.
  - FOOTING KEY: FOOTING MARK (SEE SCHEDULE ON S301)

- STRUCTURAL STEEL FRAMING KEY:**
- BEAM SIZE: W18x50
  - COLUMN: 40k
  - NUMBER OF 3/4" x HEADED SHEAR STUDS [x-x] BETWEEN SUPPORT BEAMS
  - TOP OF BEAM RELATIVE TO NOTE 1
  - FULLY RIGID MOMENT CONNECTION (IF OCCURS)
  - BEAM REACTION (IN KIPS)
- FOOTING KEY:**
- TOP OF FOOTING ELEVATION RELATIVE TO DATUM ELEVATION (IF DIFFERENT FROM TYPICAL)
  - PIER MARK (WHERE OCCURS) SEE SCHEDULE ON S301



5' SLAB ON GRADE TYP UNLESS NOTED REINF. w/ 6x6 W2.1 x W2.1 WWF PROVIDE SUPPORT CHAIRS TO HOLD WWF IN POSITION DURING CONCRETE PLACEMENT

5' SLAB ON GRADE TYP UNLESS NOTED REINF. w/ 6x6 W2.1 x W2.1 WWF PROVIDE SUPPORT CHAIRS TO HOLD WWF IN POSITION DURING CONCRETE PLACEMENT

32x32 GRADE BEAM W/ #3 TOP AND BOTTOM W/ #3 STIRRUPS @ 12" O.C. (SEE DETAIL TOP OF SHEET)

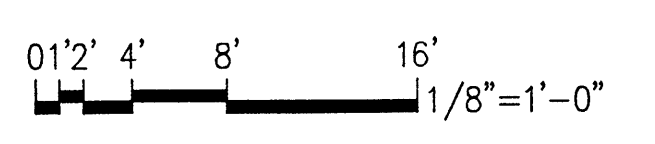
1-4x3 1/4 W/ 1/2" STUDS TOP & BOTTOM W/ #3 STIRRUPS @ 12" O.C.

4 1/2" SLAB (NOTE 6) + POST-COMPOSITE 3 1/2" N.W. TOPPING (TOTAL THICKNESS = 8")

5' SLAB ON GRADE TYP UNLESS NOTED REINF. w/ 6x6 W2.1 x W2.1 WWF PROVIDE SUPPORT CHAIRS TO HOLD WWF IN POSITION DURING CONCRETE PLACEMENT

5' SLAB ON GRADE TYP UNLESS NOTED REINF. w/ 6x6 W2.1 x W2.1 WWF PROVIDE SUPPORT CHAIRS TO HOLD WWF IN POSITION DURING CONCRETE PLACEMENT

**Foundation/First Floor Framing Plan**



PROJECT NO. 2446501  
DATE: \_\_\_\_\_

HEALTH SCIENCES BUILDING  
MONTGOMERY COLLEGE  
SILVER SPRING, MARYLAND

FOUNDATION/FIRST FLOOR FRAMING PLAN  
MONTGOMERY COLLEGE  
TAKOMA PARK CAMPUS EXPANSION  
13th ELECTION DISTRICT  
MONTGOMERY COUNTY, MARYLAND

T. H.C. ORIG-CONSTRUCT S-102

GREENHORNE & O'MARA  
Civil Engineering  
Landscape Architecture  
EDAW

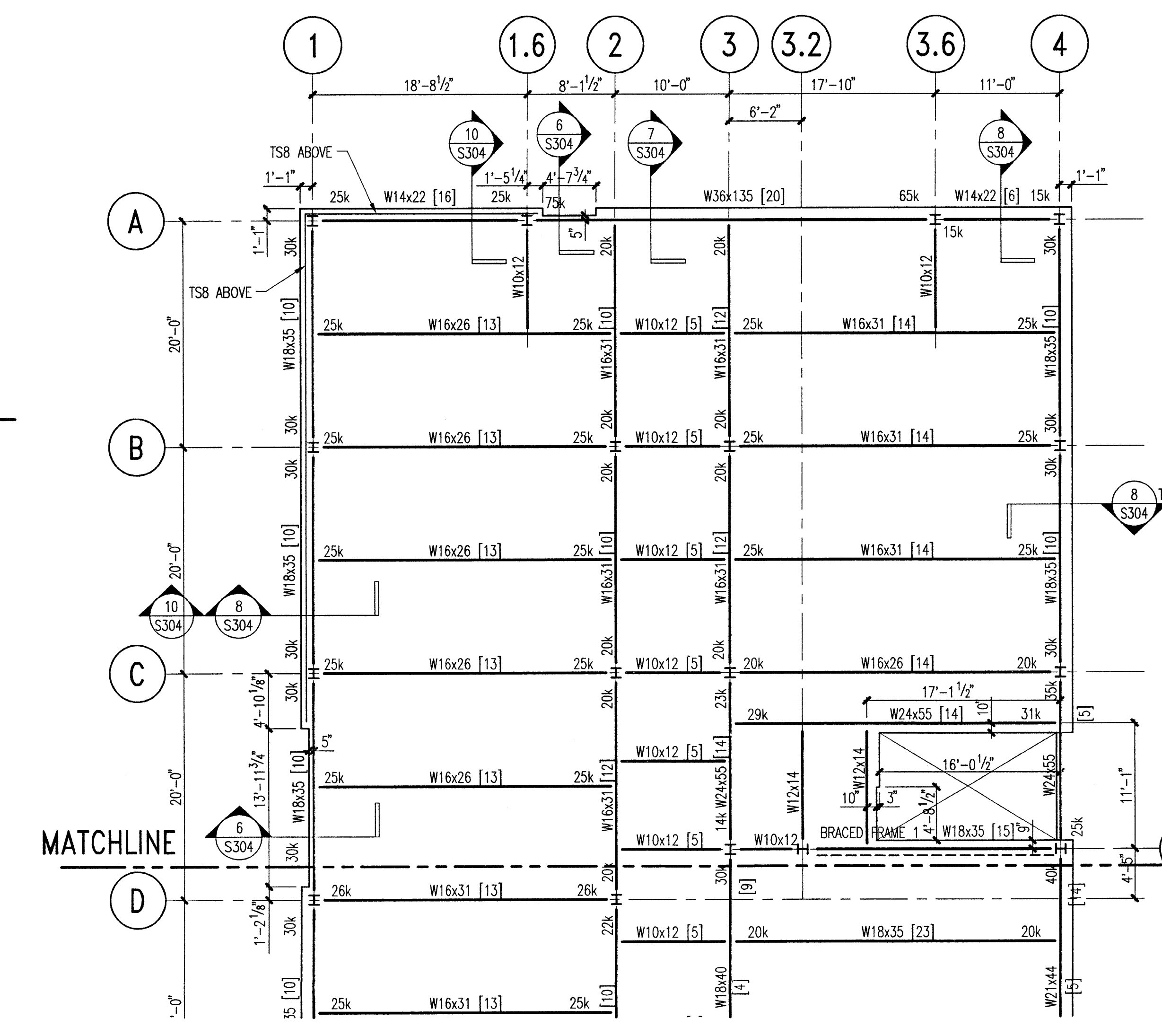
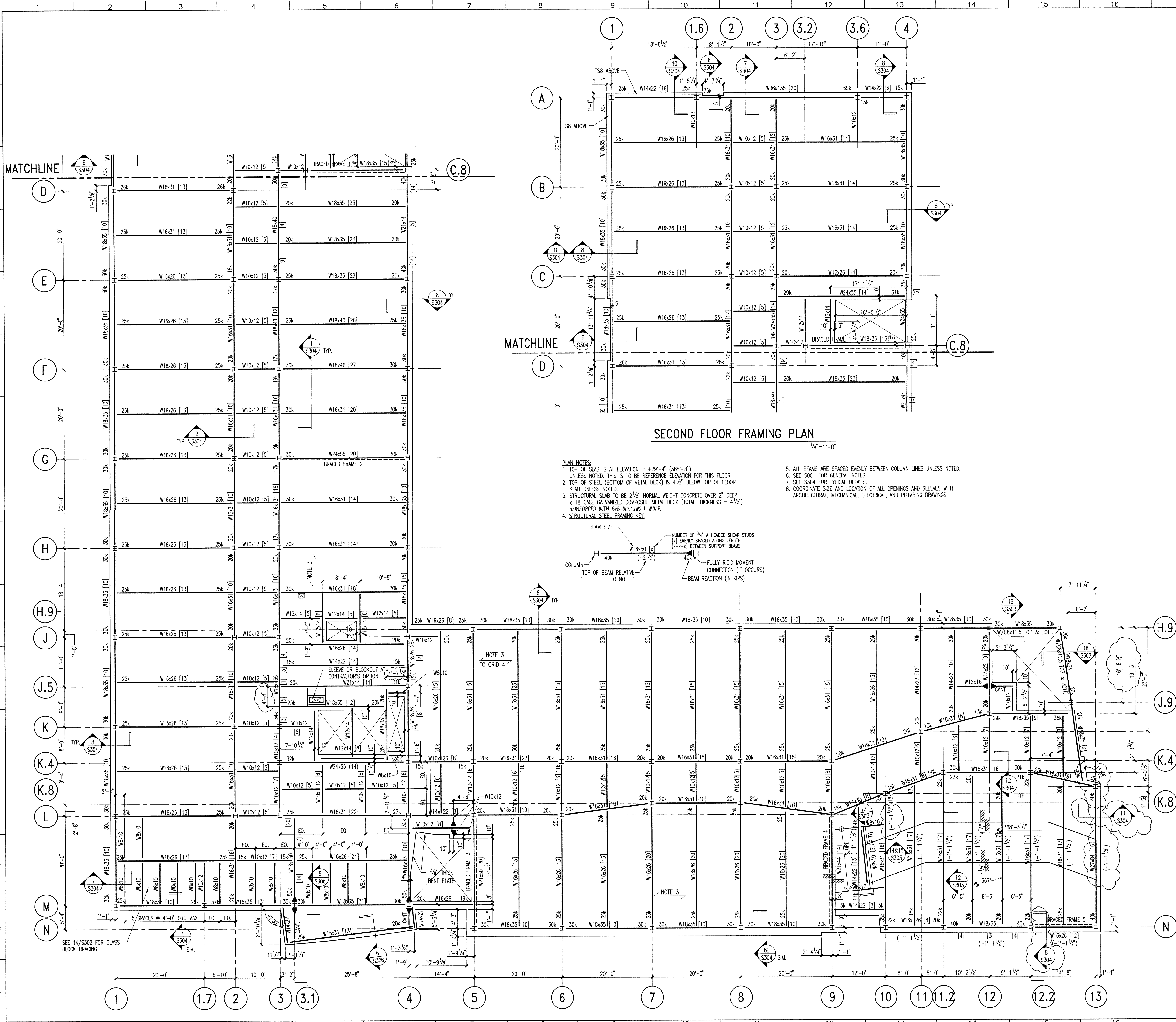
DEPARTMENT OF GENERAL SERVICES  
MONTGOMERY COLLEGE  
APPROVAL: \_\_\_\_\_ DATE: \_\_\_\_\_

PROJECT MANAGER: \_\_\_\_\_ DATE: \_\_\_\_\_

CHIEF - PROJ. MGT. & DESIGN: \_\_\_\_\_ DATE: \_\_\_\_\_

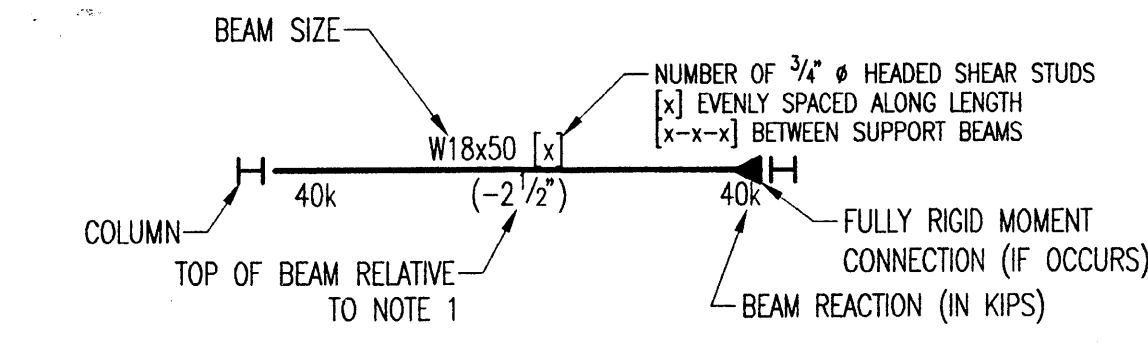
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SHEET NO. S102 OF \_\_\_\_\_

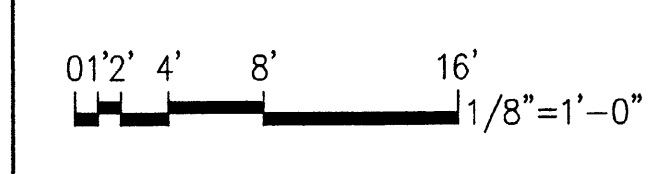


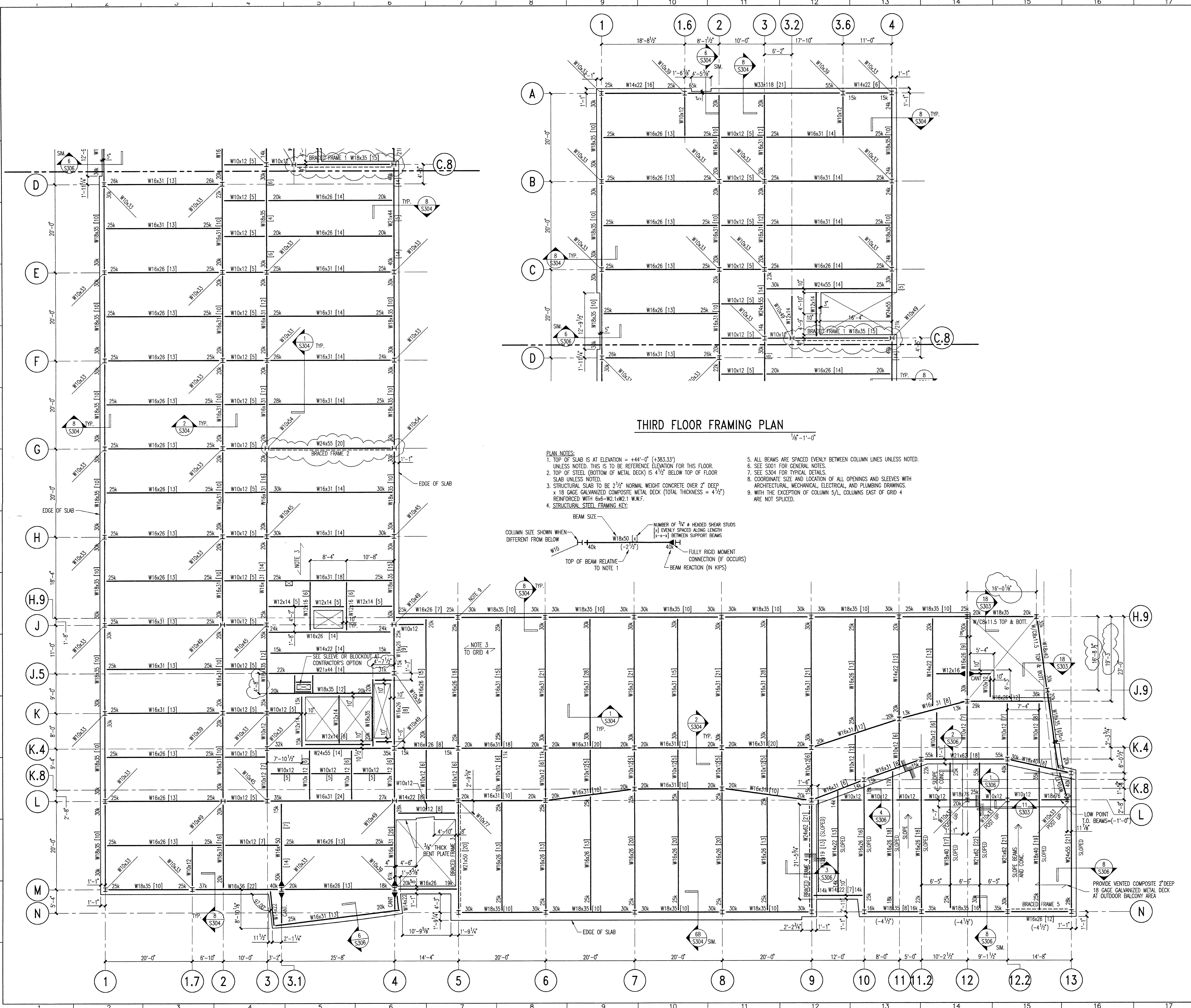
SECOND FLOOR FRAMING PLAN  
1/8" = 1'-0"

- PLAN NOTES:
1. TOP OF SLAB IS AT ELEVATION = +29'-4" (369'-8") UNLESS NOTED. THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  2. TOP OF STEEL (BOTTOM OF METAL DECK) IS 4 1/2" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  3. STRUCTURAL SLAB TO BE 2 1/2" NORMAL WEIGHT CONCRETE OVER 2" DEEP x 18 GAGE GALVANIZED COMPOSITE METAL DECK (TOTAL THICKNESS = 4 1/2") REINFORCED WITH 6x6-W2.1W2.1 W.W.F.
  4. STRUCTURAL STEEL FRAMING KEY:
  5. ALL BEAMS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
  6. SEE S301 FOR GENERAL NOTES.
  7. SEE S304 FOR TYPICAL DETAILS.
  8. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.



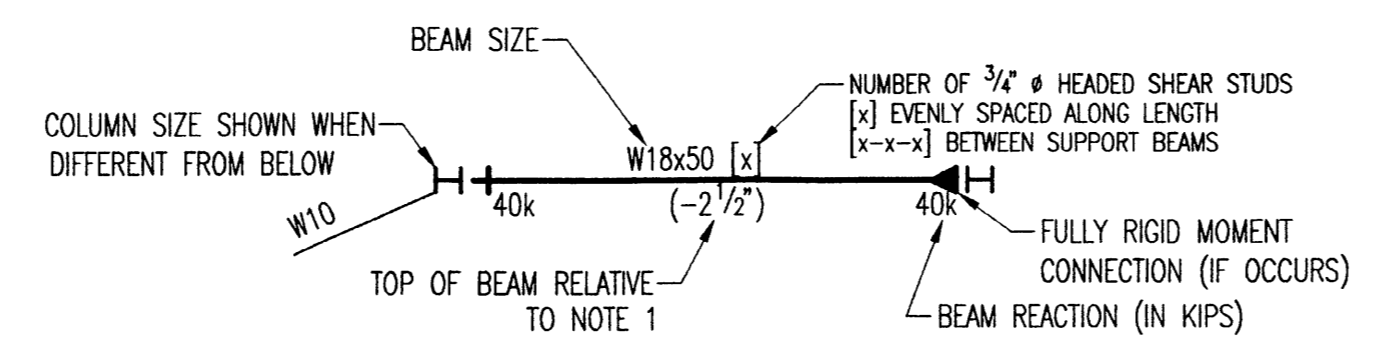
Second Floor Framing Plan





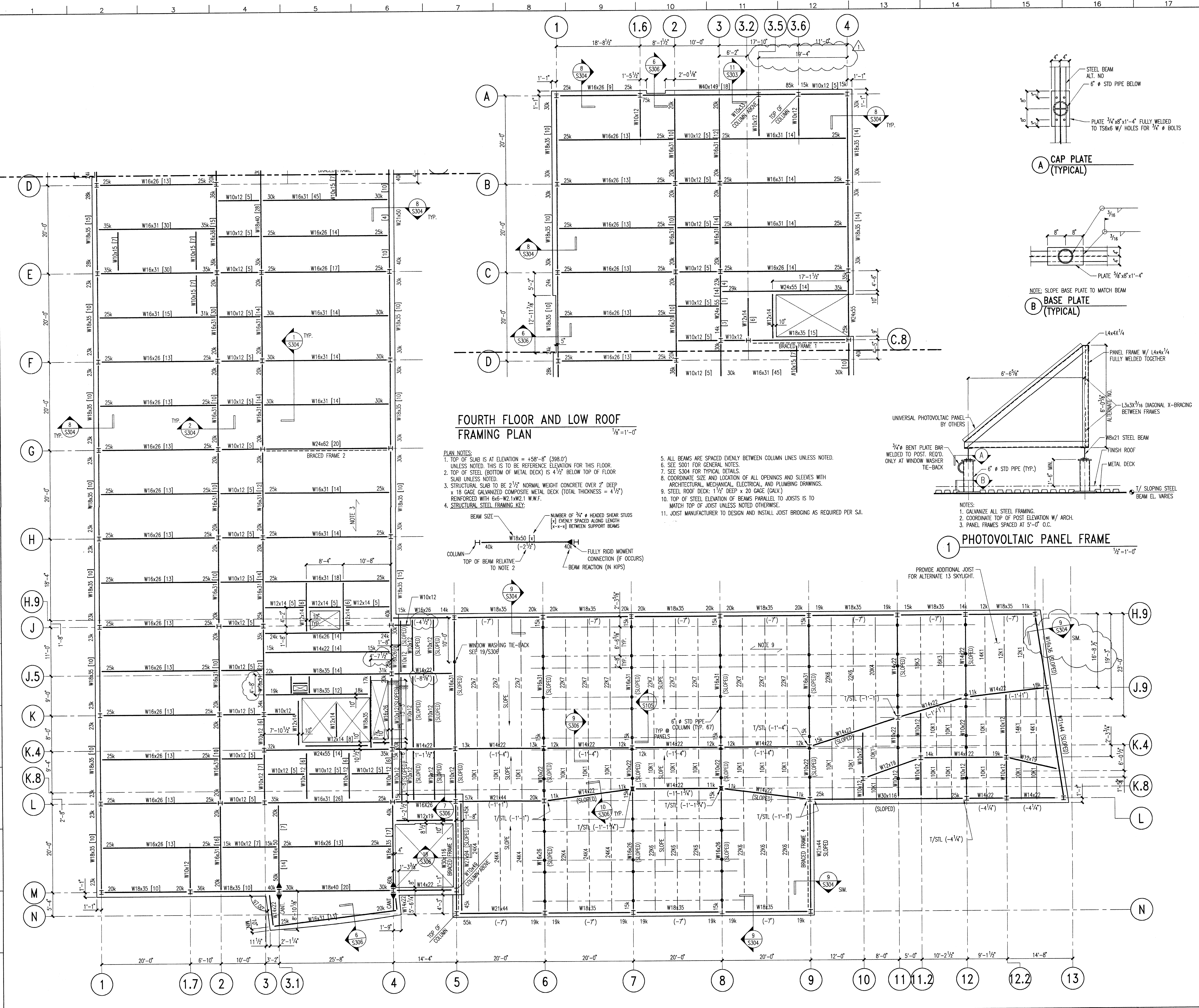
THIRD FLOOR FRAMING PLAN

- PLANNING NOTES:
- TOP OF SLAB IS AT ELEVATION = +44'-0" (+383.33') UNLESS NOTED. THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  - TOP OF STEEL (BOTTOM OF METAL DECK) IS 4 1/2" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  - STRUCTURAL SLAB TO BE 2 1/2" NORMAL WEIGHT CONCRETE OVER 2" DEEP 18 GAGE GALVANIZED COMPOSITE METAL DECK (TOTAL THICKNESS = 4 1/2") REINFORCED WITH 6x6-W2.1W2.1 W.W.F.
  - STRUCTURAL STEEL FRAMING KEY:
  - ALL BEAMS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
  - SEE S301 FOR GENERAL NOTES.
  - SEE S304 FOR TYPICAL DETAILS.
  - COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
  - WITH THE EXCEPTION OF COLUMN 5/L, COLUMNS EAST OF GRID 4 ARE NOT SPLICED.



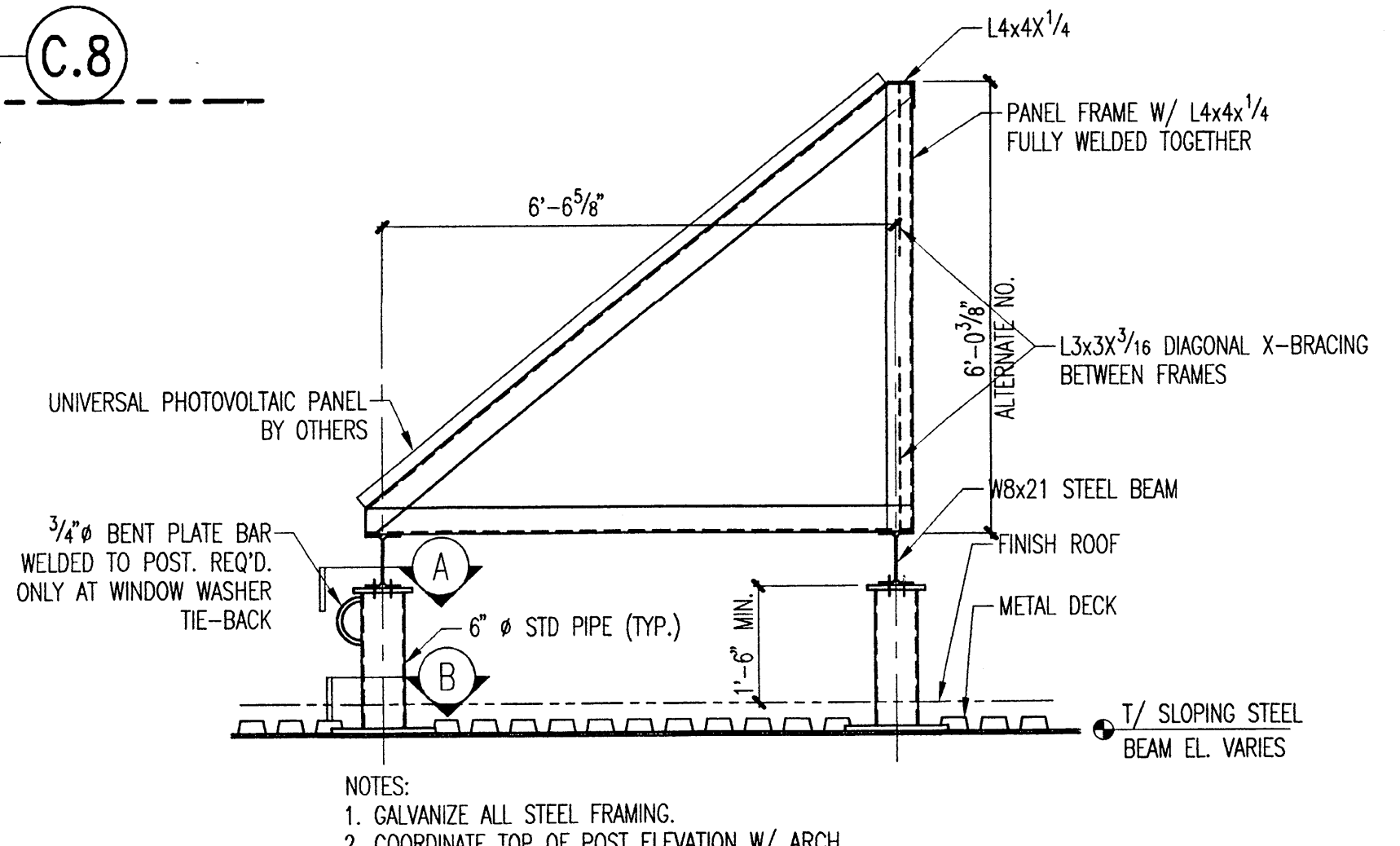
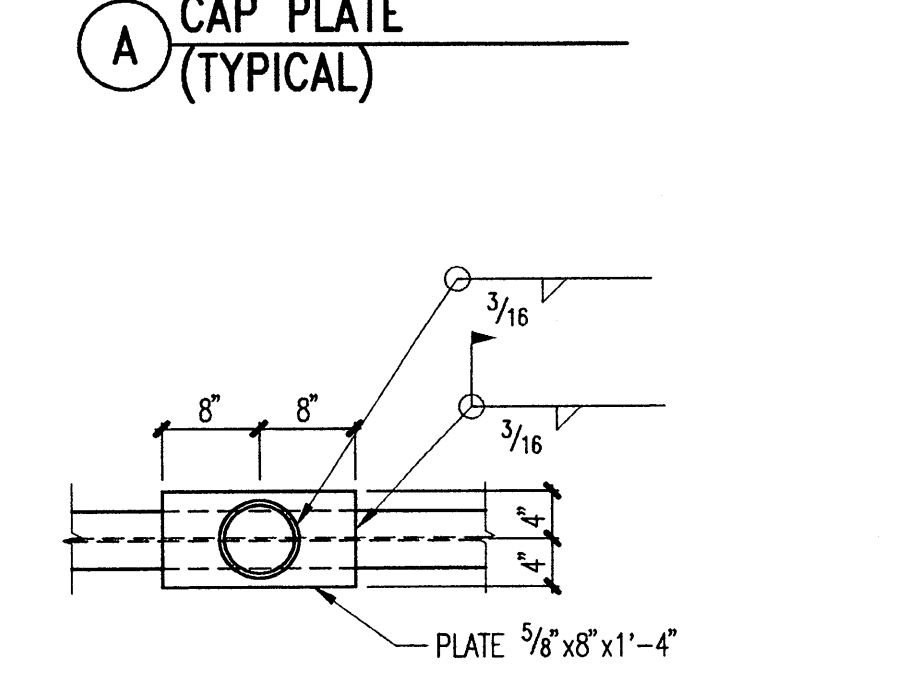
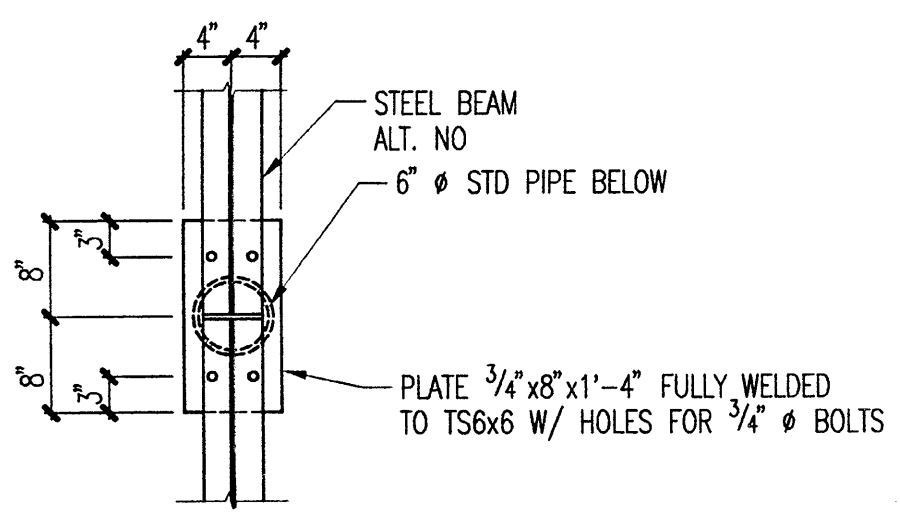
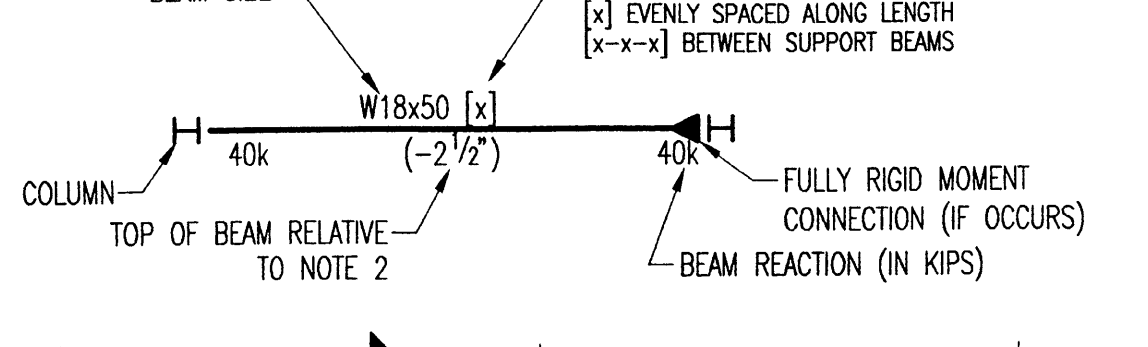
Third Floor Framing Plan





**FOURTH FLOOR AND LOW ROOF FRAMING PLAN**

- PLAN NOTES:**
1. TOP OF SLAB IS AT ELEVATION = +58'-8" (398.0'). UNLESS NOTED, THIS IS TO BE REFERENCE ELEVATION FOR THIS FLOOR.
  2. TOP OF STEEL (BOTTOM OF METAL DECK) IS 4 1/2" BELOW TOP OF FLOOR SLAB UNLESS NOTED.
  3. STRUCTURAL SLAB TO BE 2 1/2" NORMAL WEIGHT CONCRETE OVER 2" DEEP x 18 GAGE GALVANIZED COMPOSITE METAL DECK (TOTAL THICKNESS = 4 1/2") REINFORCED WITH 6x6-W2.1W2.1 W.W.F.
  4. STRUCTURAL STEEL FRAMING KEY:
  5. ALL BEAMS ARE SPACED EVENLY BETWEEN COLUMN LINES UNLESS NOTED.
  6. SEE S301 FOR GENERAL NOTES.
  7. SEE S304 FOR TYPICAL DETAILS.
  8. COORDINATE SIZE AND LOCATION OF ALL OPENINGS AND SLEEVES WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS.
  9. STEEL ROOF DECK: 1 1/2" DEEP x 20 GAGE (CALV).
  10. TOP OF STEEL ELEVATION OF BEAMS PARALLEL TO JOISTS IS TO MATCH TOP OF JOIST UNLESS NOTED OTHERWISE.
  11. JOIST MANUFACTURER TO DESIGN AND INSTALL JOIST BRIDGING AS REQUIRED PER SJI.



Fourth Floor Framing Plan



**T\_HC\_ORIG-CONSTRUCT\_S-105**

**HEALTH SCIENCES BUILDING**

**MONTGOMERY COLLEGE**

**SILVER SPRING, MARYLAND**

**PROJECT NO. 240601**

**DATE:**

**S105**

**SHEET \_\_\_ OF \_\_\_**

**FOURTH FLOOR FRAMING PLAN**

**MONTGOMERY COLLEGE**

**Takoma Park Campus Expansion**

**13th Election District**

**Montgomery County, Maryland**

**DEPARTMENT OF GENERAL SERVICES**

**APPROVAL**

**PROJECT MANAGER**

**DATE**

**CHIEF - PROJ. MGT. & DESIGN**

**TITLE**

**DATE**

**MONTGOMERY COLLEGE**

**APPROVAL**

**DATE**

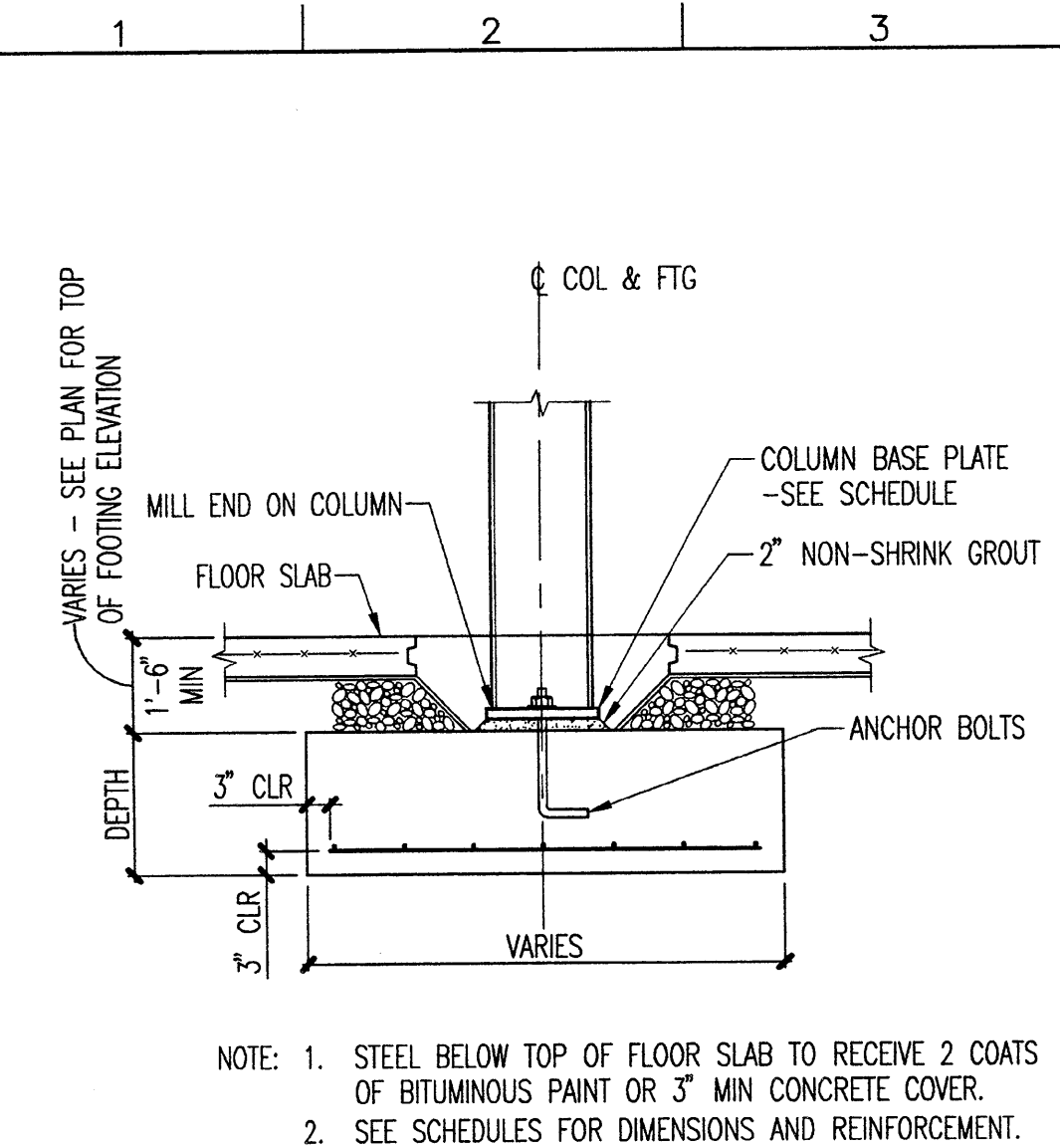
**Civil Engineering**

**GREENHORNE & O'MARA**

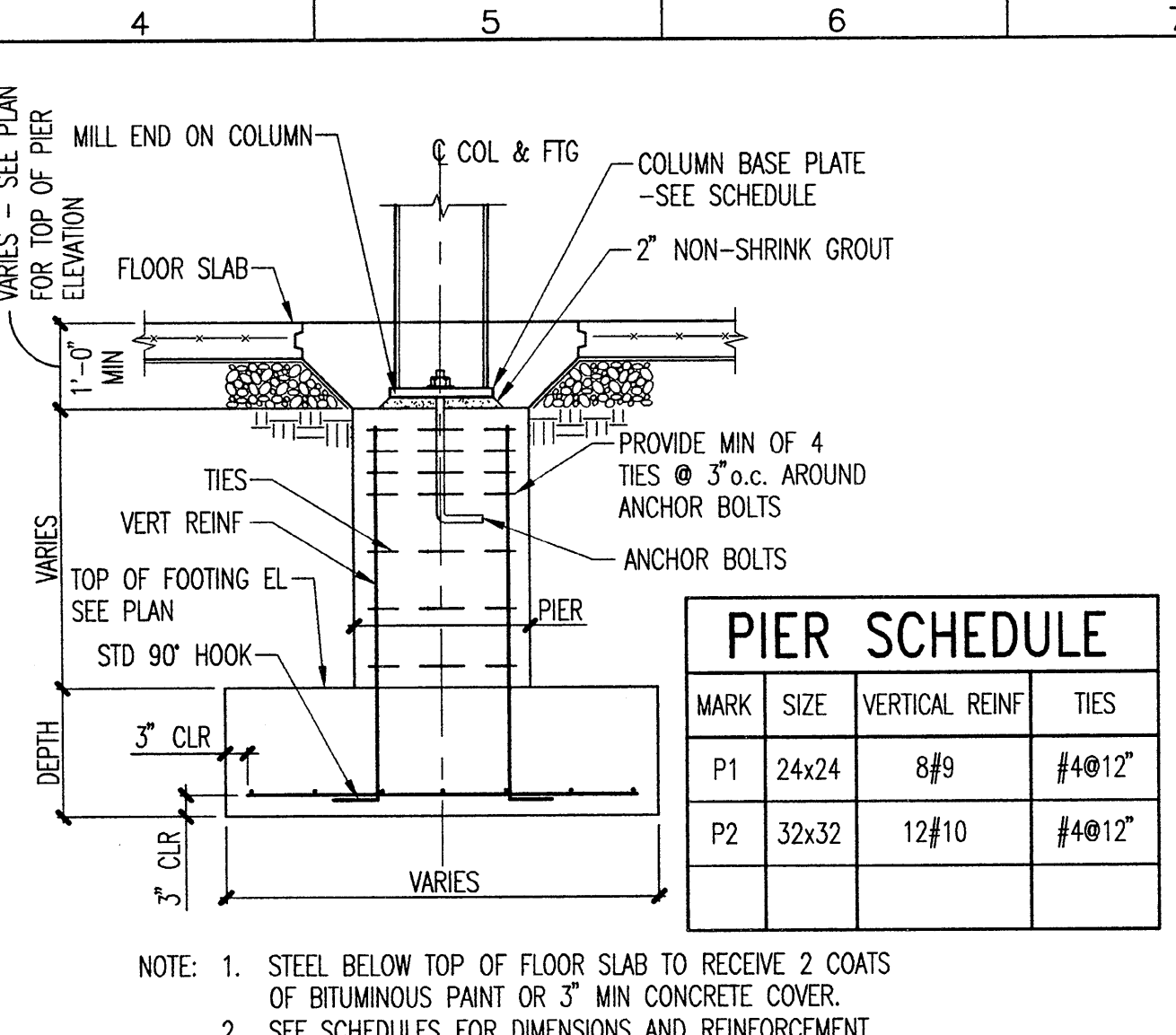
**EDAW**

**Landscape Architecture**





1 COLUMN FOOTING  $\frac{1}{2}''=1'-0''$



2 COLUMN FOOTING WITH PIER  $\frac{1}{2}''=1'-0''$

**COLUMN FOOTING SCHEDULE, 3ksf SOIL**

MARK	DIMENSIONS			REINFORCEMENT	REMARKS
	WIDTH	LENGTH	DEPTH		
F-3.0	3'-0"	3'-0"	1'-0"	#4 EWB	
F-6.0	6'-0"	6'-0"	1'-2"	#5 EWB	
F-7.0	7'-0"	7'-0"	1'-6"	#6 EWB	
F-8.0	8'-0"	8'-0"	1'-8"	#7 EWB	
F-9.0	9'-0"	9'-0"	1'-10"	#7 EWB	
F-10.0	10'-0"	10'-0"	2'-0"	#8 EWB	
F-11.0	11'-0"	11'-0"	2'-2"	#8 EWB	
F-12.0	12'-0"	12'-0"	2'-4"	#8 EWB	
F-13.0	13'-0"	13'-0"	2'-6"	#9 EWB	
F-13.5x22	13'-6"	22'-0"	2'-6"	#9 EWB TOP & BOT.	
F-9.5x13	9'-6"	13'-0"	2'-6"	#9 EWB E.W. BOT.	
F-8x16	8'-0"	16'-0"	2'-0"	#7 EWB TOP & BOT.	
F-13x18	13'-0"	18'-0"	2'-6"	#9 EWB TOP & BOT.	
F-14.5	14'-6"	14'-6"	2'-8"	#9 EWB E.W. BOT.	

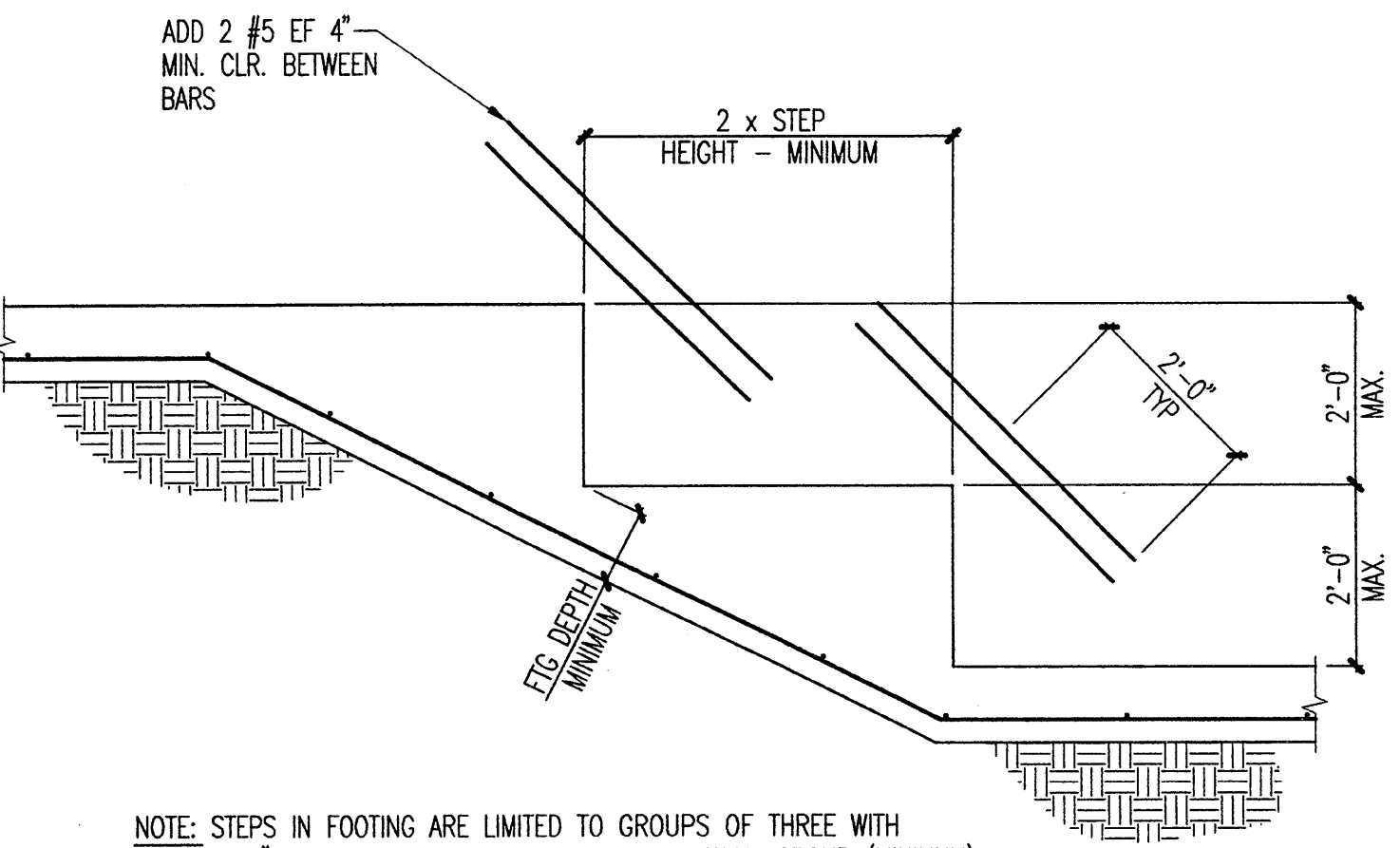
ABBREVIATIONS: EWB = EACH WAY BOTTOM; EWT = EACH WAY TOP; LW = LONG WAY; SW = SHORT WAY

**PIER SCHEDULE**

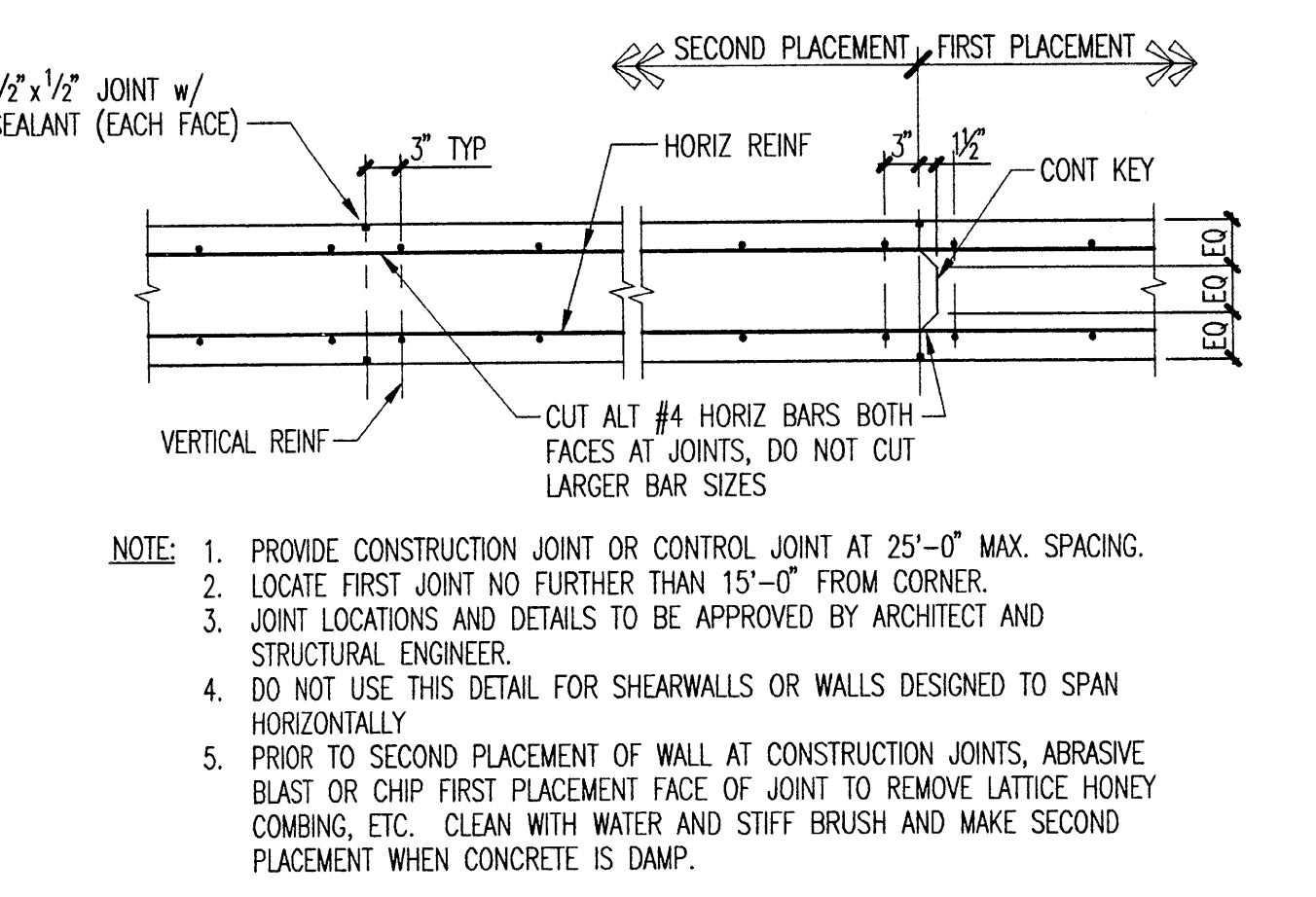
MARK	SIZE	VERTICAL REIN	TIES
P1	24x24	#9	#4@12"
P2	32x32	#10	#4@12"

WALL THICKNESS	BAR SIZE & SPACING EACH MAT		REMARKS
	HORIZONTAL	VERTICAL	
6" TO 8"	#4 @ 12"	#4 @ 18"	SINGLE LAYER
8 1/2" TO 10"	#4 @ 18"	#4 @ 18"	DOUBLE LAYER
10 1/2" TO 12"	#4 @ 16"	#4 @ 18"	DOUBLE LAYER
12 1/2" TO 14"	#4 @ 14"	#4 @ 18"	DOUBLE LAYER

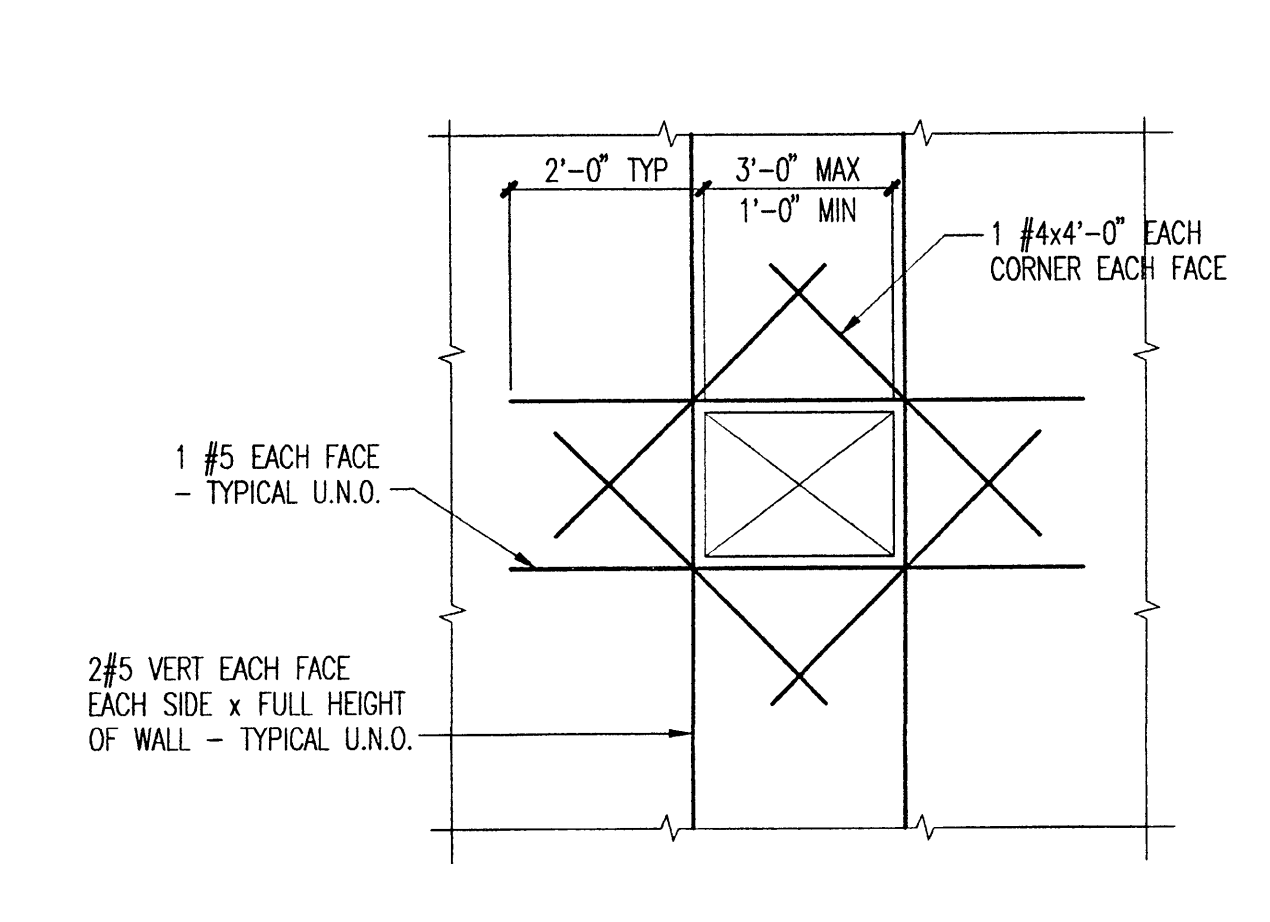
3 MINIMUM REINFORCEMENT CONCRETE WALLS



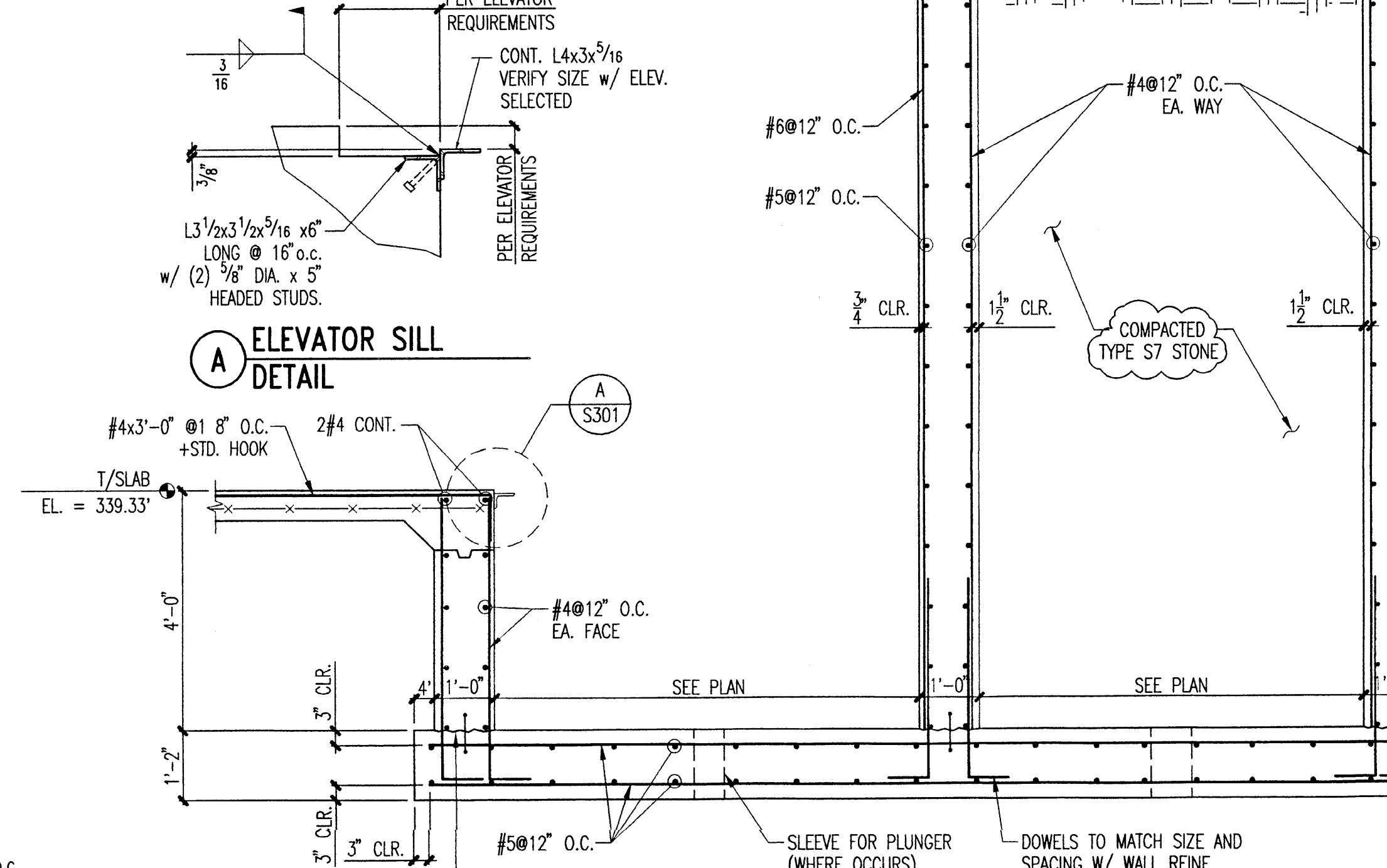
4 STEPPED FOOTING - REINFORCED CONCRETE WALLS  $\frac{1}{2}''=1'-0''$



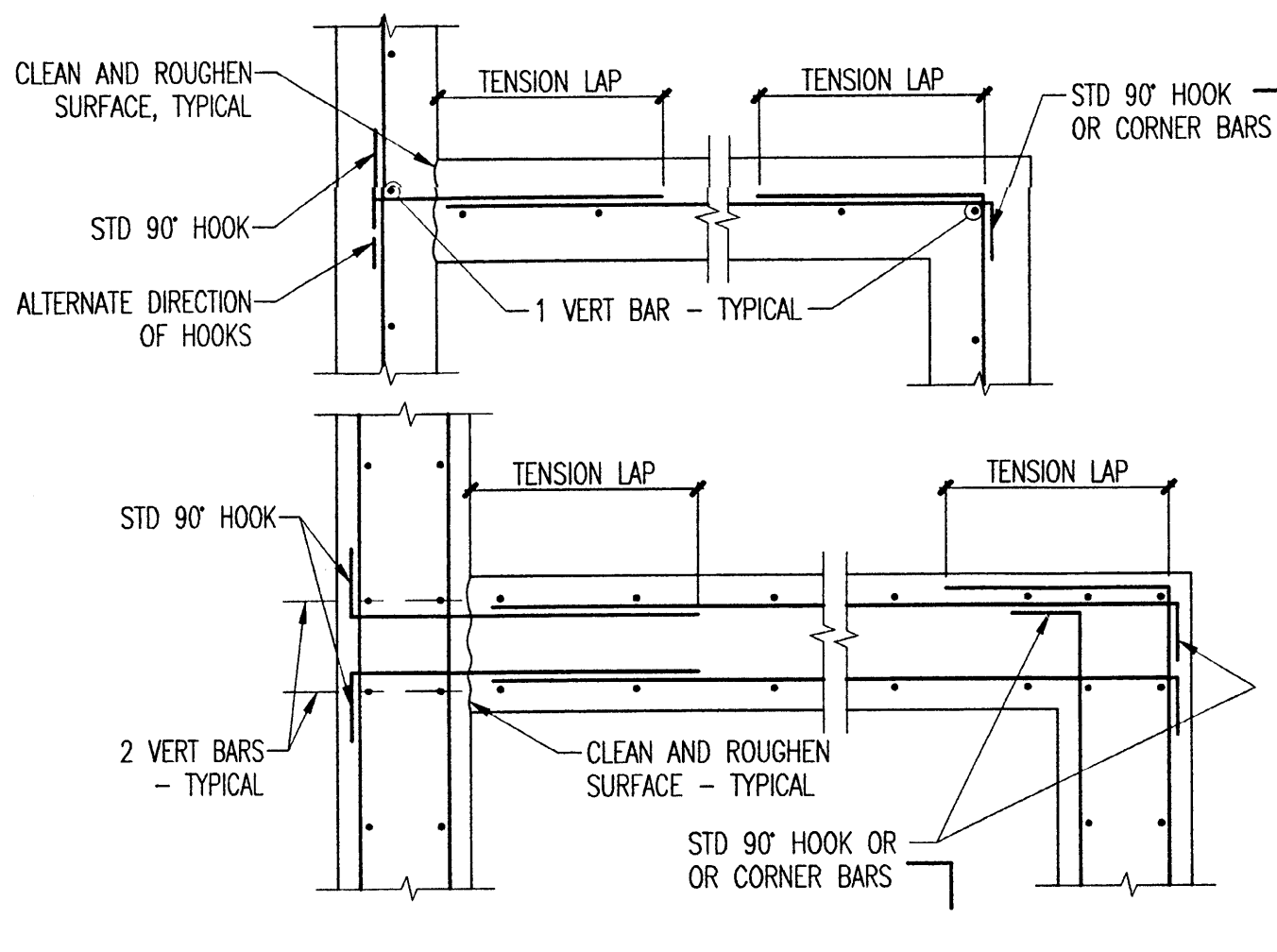
5 VERTICAL JOINTS CONCRETE WALL  $\frac{3}{4}''=1'-0''$



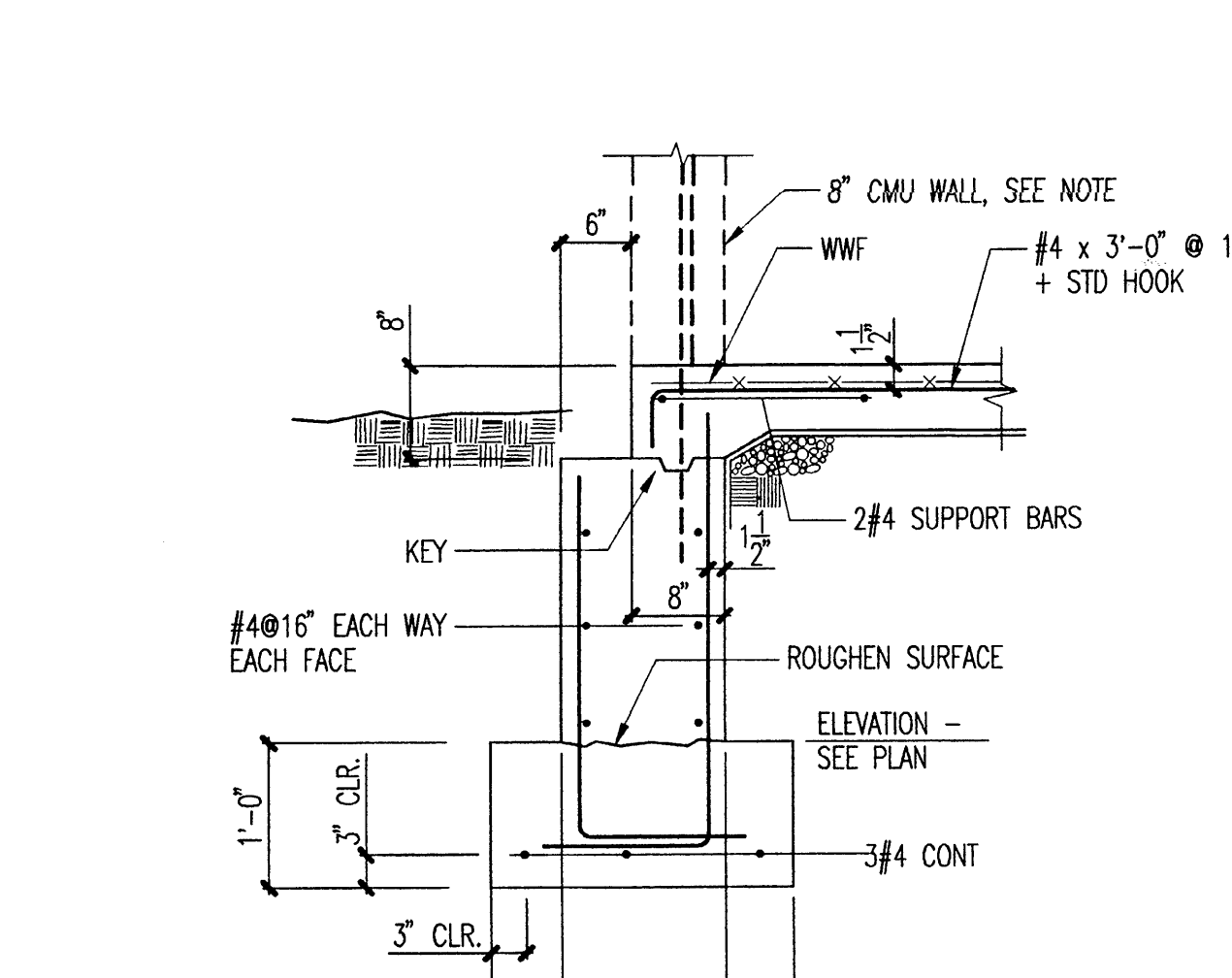
7 OPENING IN CONCRETE WALL  $\frac{3}{4}''=1'-0''$



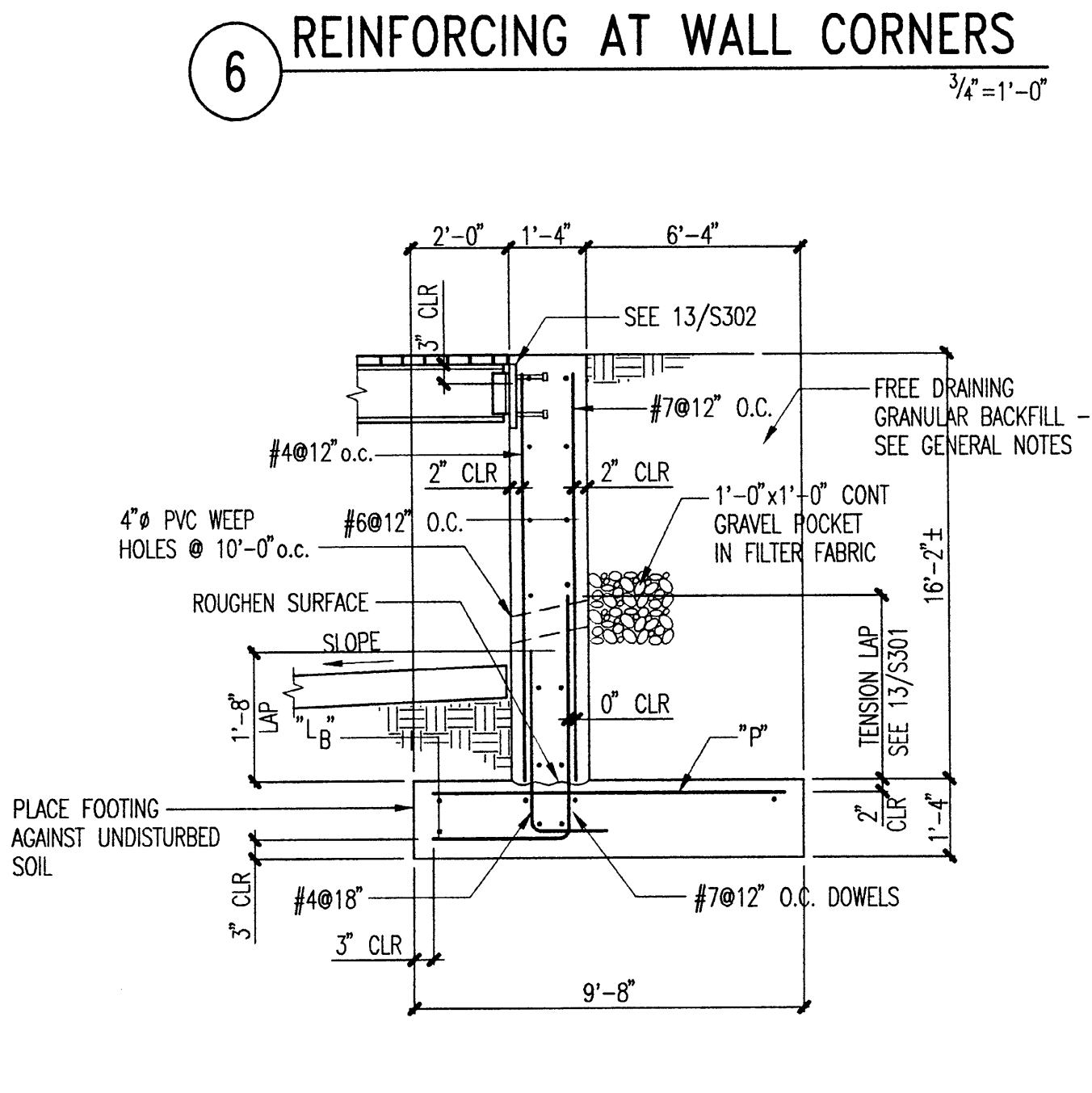
9 ELEVATOR PIT  $\frac{1}{2}''=1'-0''$



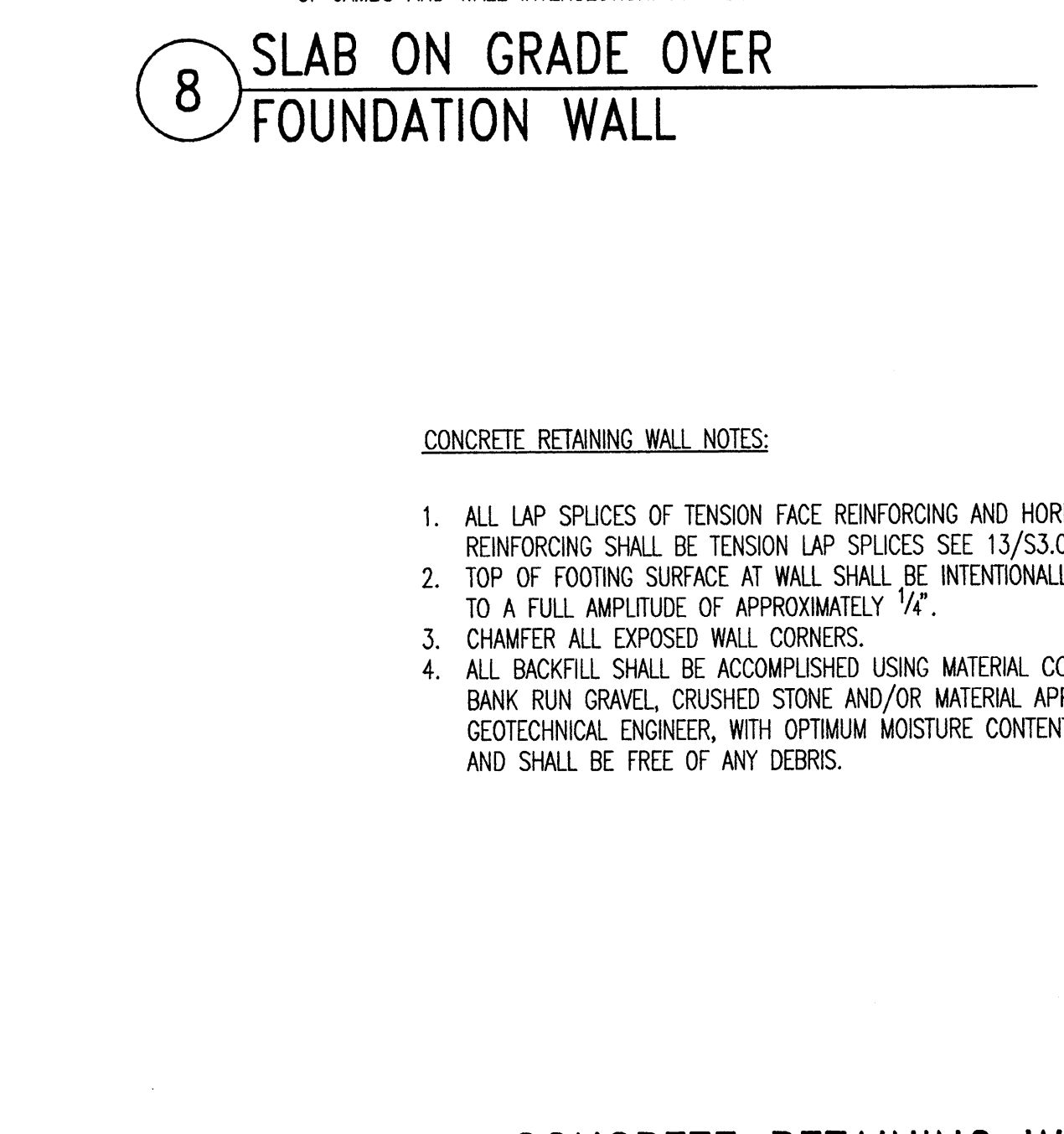
6 REINFORCING AT WALL CORNERS  $\frac{3}{4}''=1'-0''$



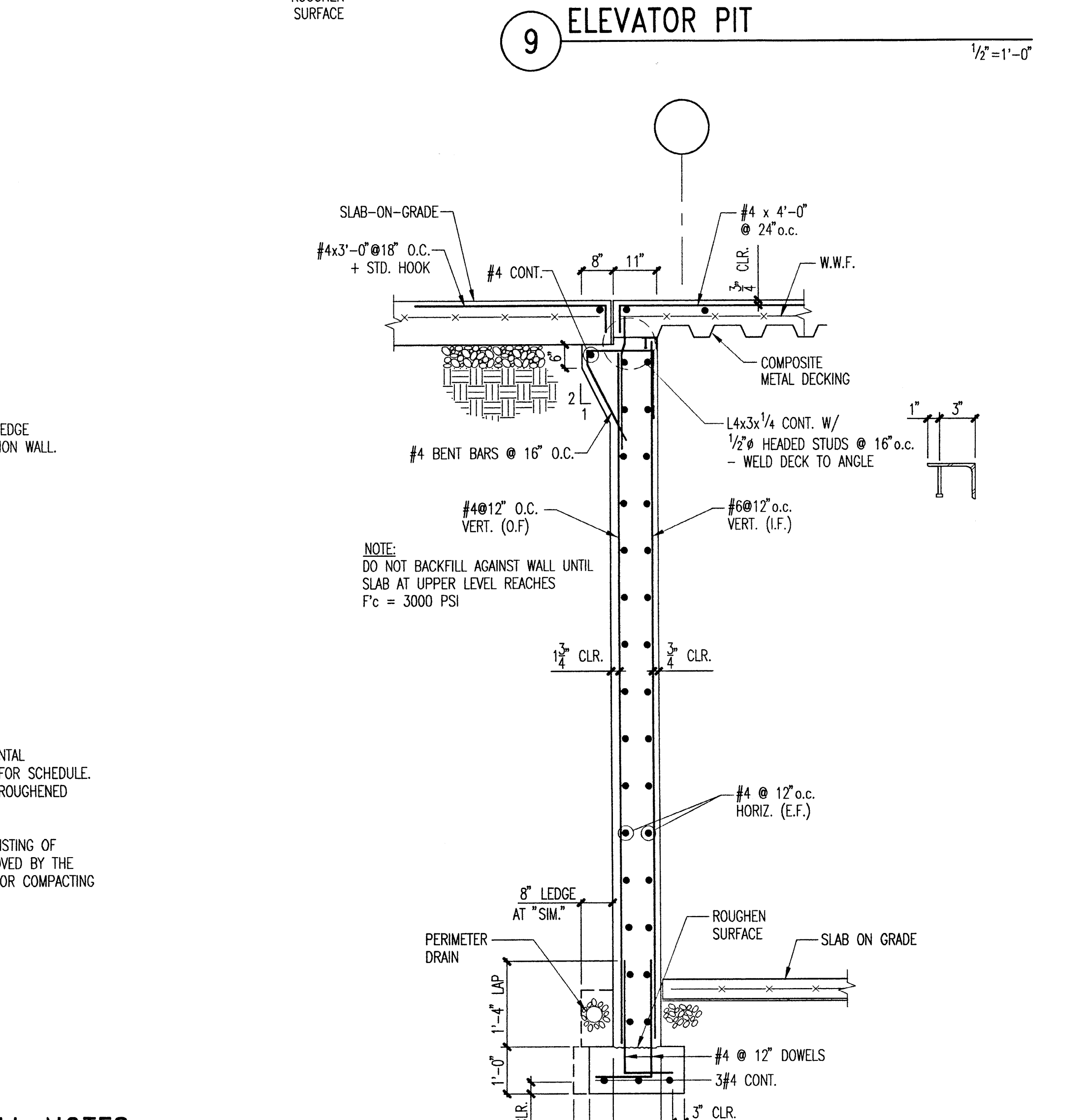
8 SLAB ON GRADE OVER FOUNDATION WALL



10 CANTILEVER RETAINING WALL  $\frac{1}{2}''=1'-0''$



11 CONCRETE RETAINING WALL NOTES

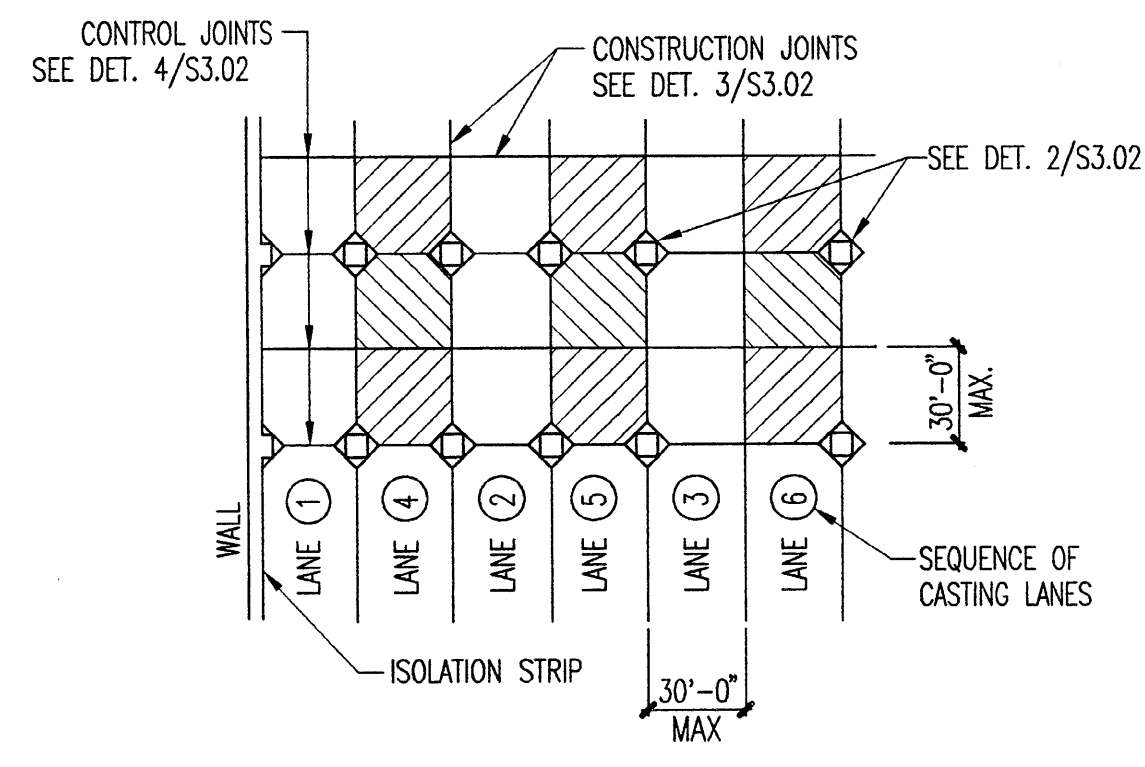


13 TENSION LAP SPLICE LENGTH FOR BEAM, SLAB, WALL AND CONCRETE JOIST REINFORCING BARS

GRADE 60 BARS	CONCRETE STRENGTH, PSI				2db	4db
	CENTER TO CENTER BAR SPACING	3000	4000	4db OR MORE (NOTE 3)		
#3	TOP BARS 1'-9"	1'-9"	1'-6"	1'-6"	3/4"	1 1/2"
#3	OTHER BARS 1'-4"	1'-4"	1'-4"	1'-4"		
#4	TOP BARS 2'-6"	2'-4"	2'-2"	2'-0"	1"	2"
#4	OTHER BARS 1'-11"	1'-10"	1'-8"	1'-7"		
#5	TOP BARS 3'-10"	2'-11"	3'-4"	2'-6"	1 1/4"	2 1/2"
#5	OTHER BARS 3'-0"	2'-3"	2'-7"	1'-11"		
#6	TOP BARS 5'-5"	3'-6"	4'-9"	3'-0"	1 3/4"	3"
#6	OTHER BARS 4'-2"	2'-8"	3'-8"	2'-4"		
#7	TOP BARS 7'-5"	4'-1"	6'-5"	3'-6"	1 3/4"	3 1/2"
#7	OTHER BARS 5'-9"	3'-2"	4'-11"	2'-9"		
#8	TOP BARS 9'-9"	4'-11"	8'-6"	4'-3"	2"	4"
#8	OTHER BARS 7'-6"	3'-9"	6'-6"	3'-3"		
#9	TOP BARS 12'-4"	6'-2"	10'-9"	5'-4"	2 1/4"	4 1/2"
#9	OTHER BARS 9'-6"	4'-9"	8'-3"	4'-2"		
#10	TOP BARS 15'-8"	7'-10"	13'-7"	6'-10"	2 1/2"	5"
#10	OTHER BARS 12'-1"	6'-1"	10'-6"	5'-3"		
#11	TOP BARS 19'-3"	9'-8"	16'-8"	8'-4"	2 3/4"	5 1/2"
#11	OTHER BARS 14'-10"	7'-5"	12'-10"	6'-5"		

NOTES: 1) THIS DETAIL DOES NOT APPLY TO COLUMN VERTICAL BARS.  
 2) TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW THE BARS.  
 3) THE USE OF TABULATED VALUES IN THIS COLUMN IS DEPENDENT UPON A MINIMUM CONCRETE COVER AS FOLLOWS: OUTER LAYER BARS IN WALLS AND SLABS REQUIRE 2db MINIMUM COVER. ALL OTHER BARS REQUIRE 4db MINIMUM COVER. IF MINIMUM COVER REQUIREMENTS ARE NOT MET, VALUES IN THE "LESS THAN 4db" COLUMN SHALL BE USED.  
 4) FOR LIGHTWEIGHT AGGREGATE, MULTIPLY ABOVE VALUES BY 1.3.  
 5) FOR EPOXY-COATED BARS MULTIPLY TOP BARS BY 1.31, OTHER BARS BY 1.50.

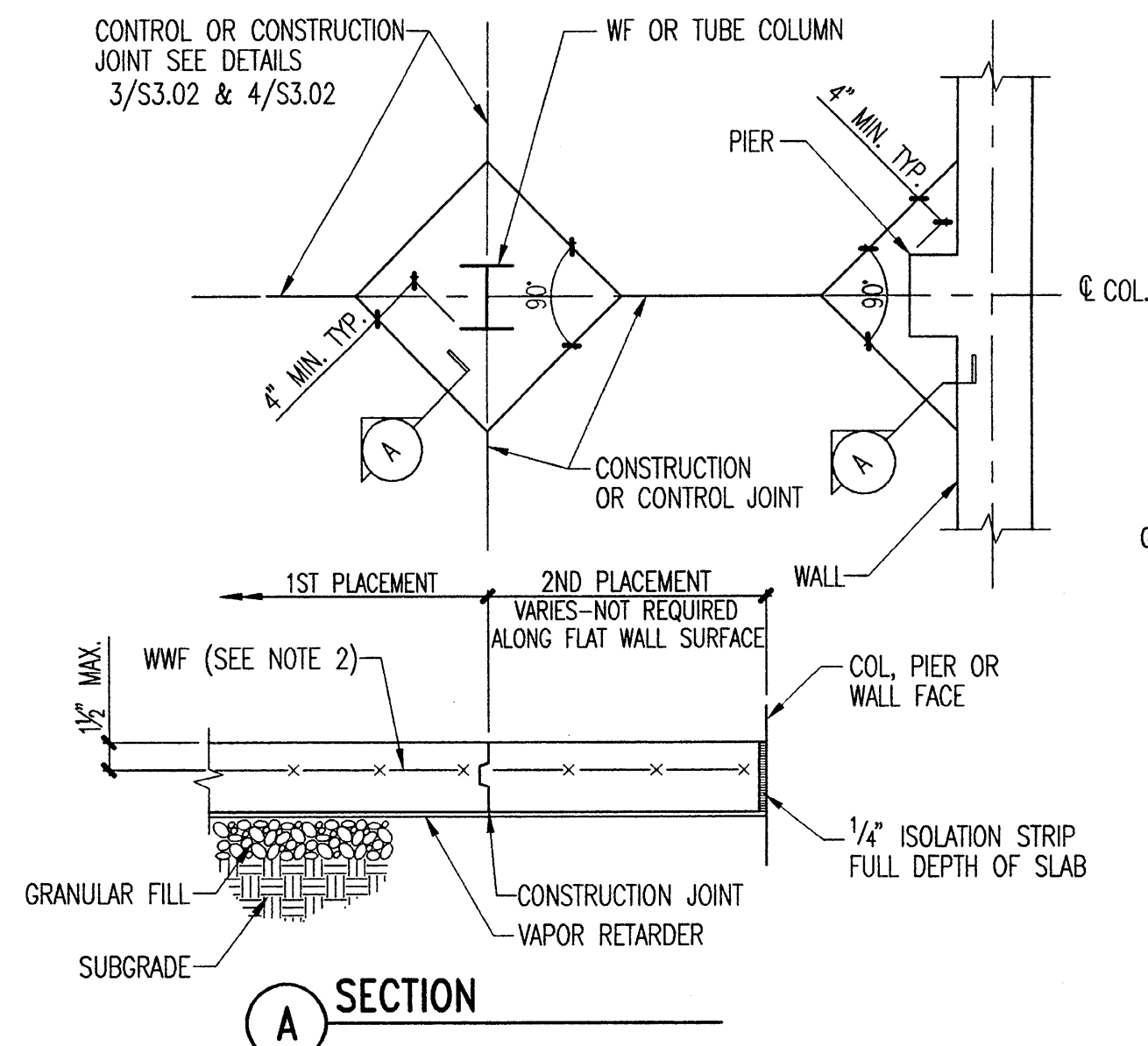




- NOTES:
- LANES SHALL BE CAST IN SEQUENCE INDICATED.
  - LANES SHALL BE DIVIDED BY CONSTRUCTION JOINTS AT COLUMN CENTERLINES AND SUBDIVIDED AT A MAXIMUM OF 30'-0" CENTERS.
  - IN AREAS WHERE COLUMNS DO NOT OCCUR PROVIDE CONSTRUCTION AND/OR CONTROL JOINTS AS SHOWN.
  - ALLOW 48 HOURS BETWEEN ADJACENT LANE PLACEMENT.
  - SOFT-CUT SYSTEM MAY BE USED IN LIEU OF CASTING IN LANES.

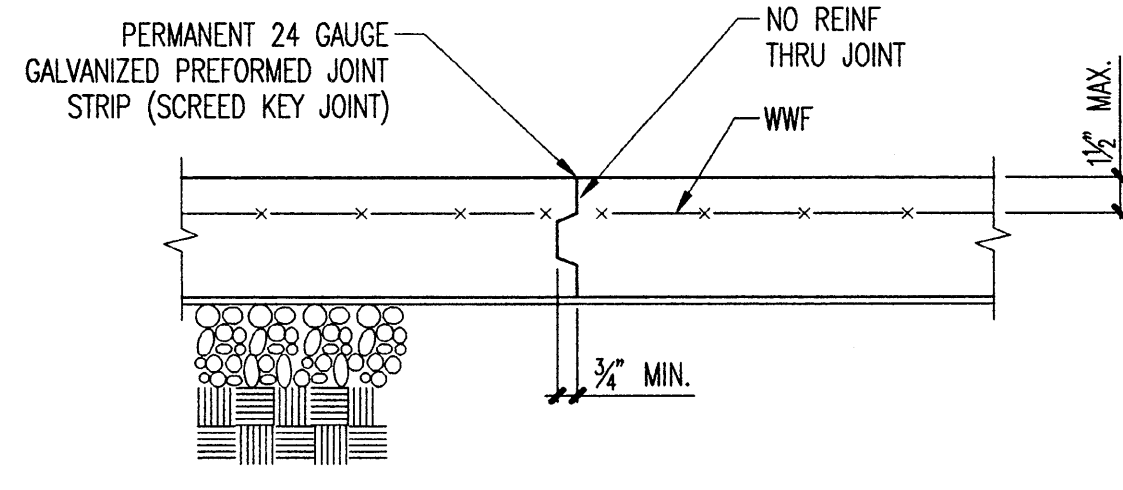
1 SEQUENCE OF PLACING SLAB ON GRADE

N.T.S.



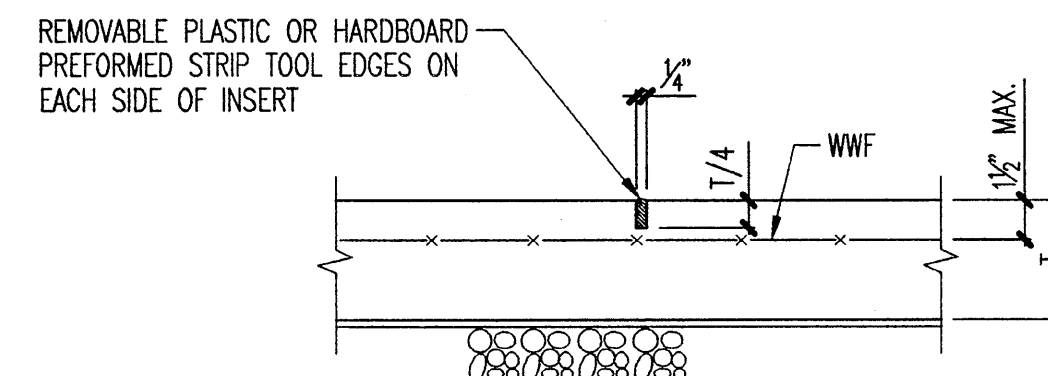
- NOTES:
- SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.
  - PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

2 JOINTS AT COLUMNS AND PIERS FOR SLAB ON GRADE



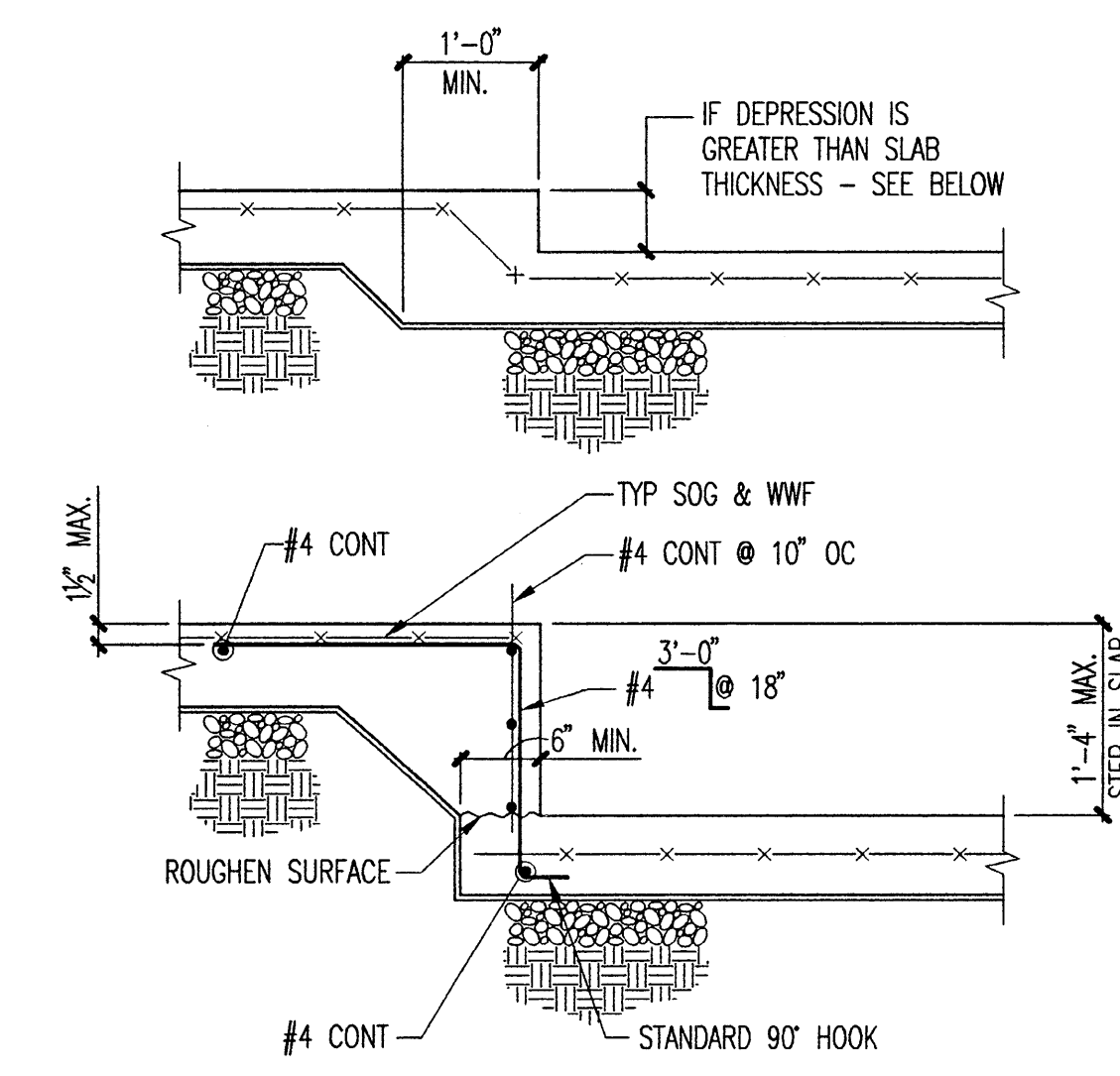
- NOTES:
- CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT
  - REFER TO ARCHITECTURAL DETAILS FOR JOINT FILLER WHERE REQUIRED.
  - SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.
  - PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

3 SLAB ON GRADE CONSTRUCTION JOINT

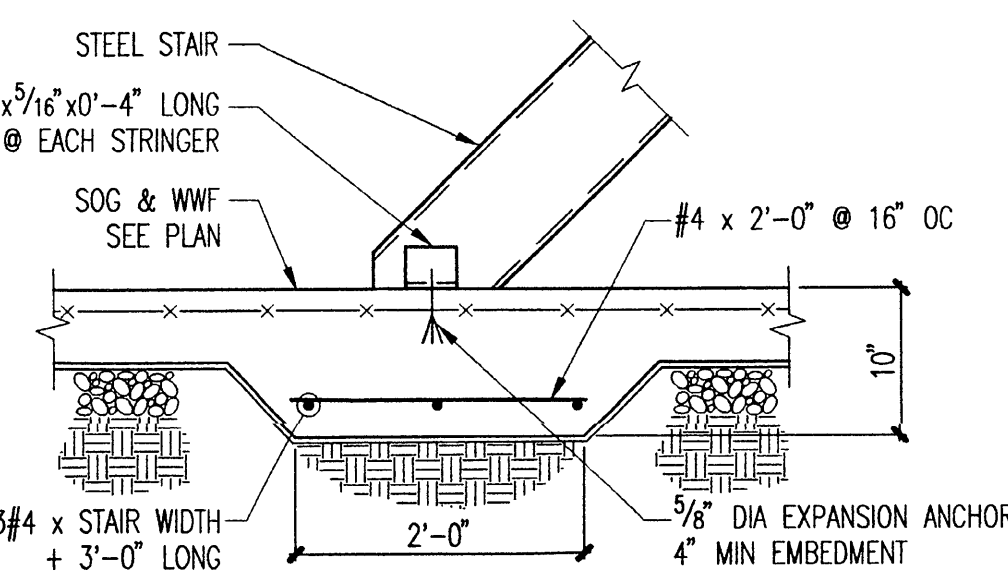


- NOTES:
- FILL JOINT WITH SEALANT AFTER SLAB HAS BEEN CURED.
  - CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT
  - SEE SEQUENCE OF PLACING SLAB ON GRADE FOR LOCATION OF JOINTS.
  - SAWCUT JOINTS ARE PERMITTED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER ONLY. IF APPROVED, SAWCUT JOINTS USING A "SOFT-CUT" MACHINE OR EQUAL IMMEDIATELY AFTER FINISHING SLAB.
  - PROVIDE SUPPORT CHAIRS TO HOLD WWF AND/OR REINFORCING IN POSITION DURING CONCRETE PLACEMENT.

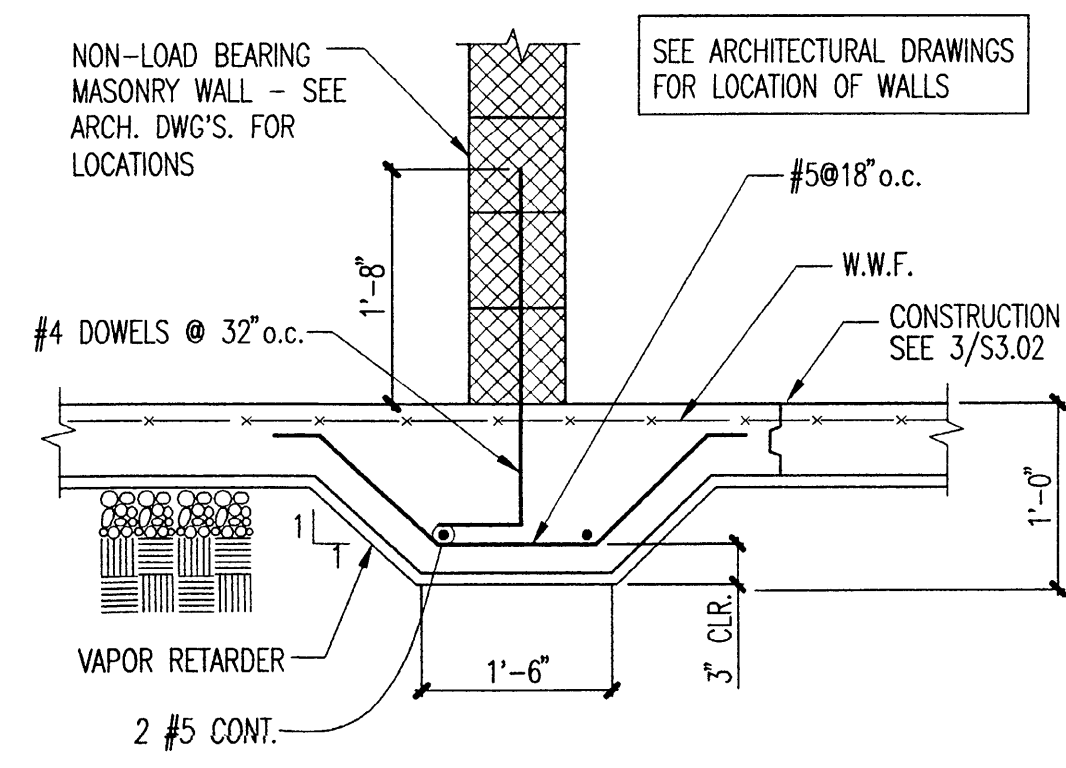
4 SLAB ON GRADE CONTROL JOINT FOR TYPICAL SLABS



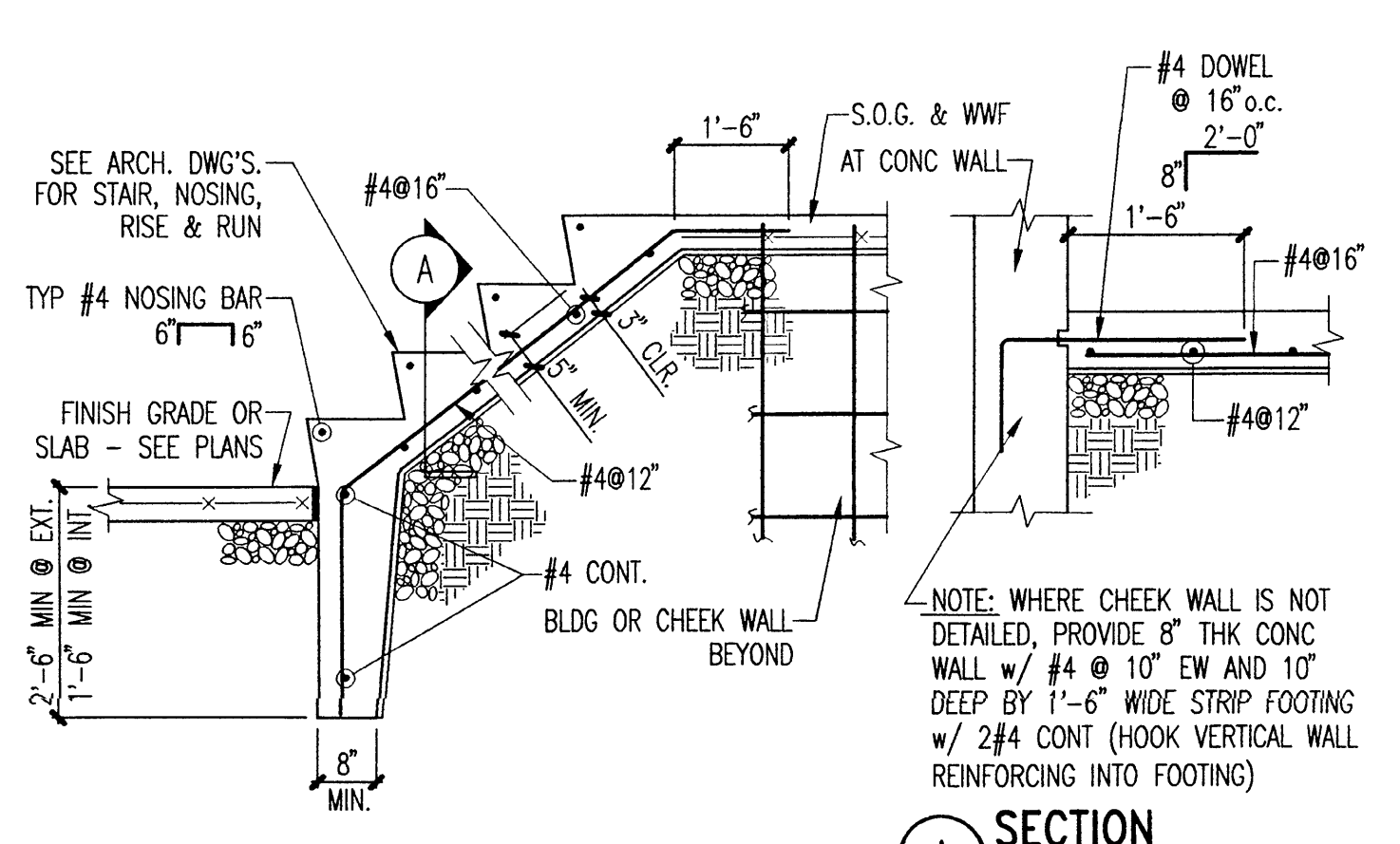
5 SLAB ON GRADE DEPRESSION AND STEP IN SLAB ON GRADE



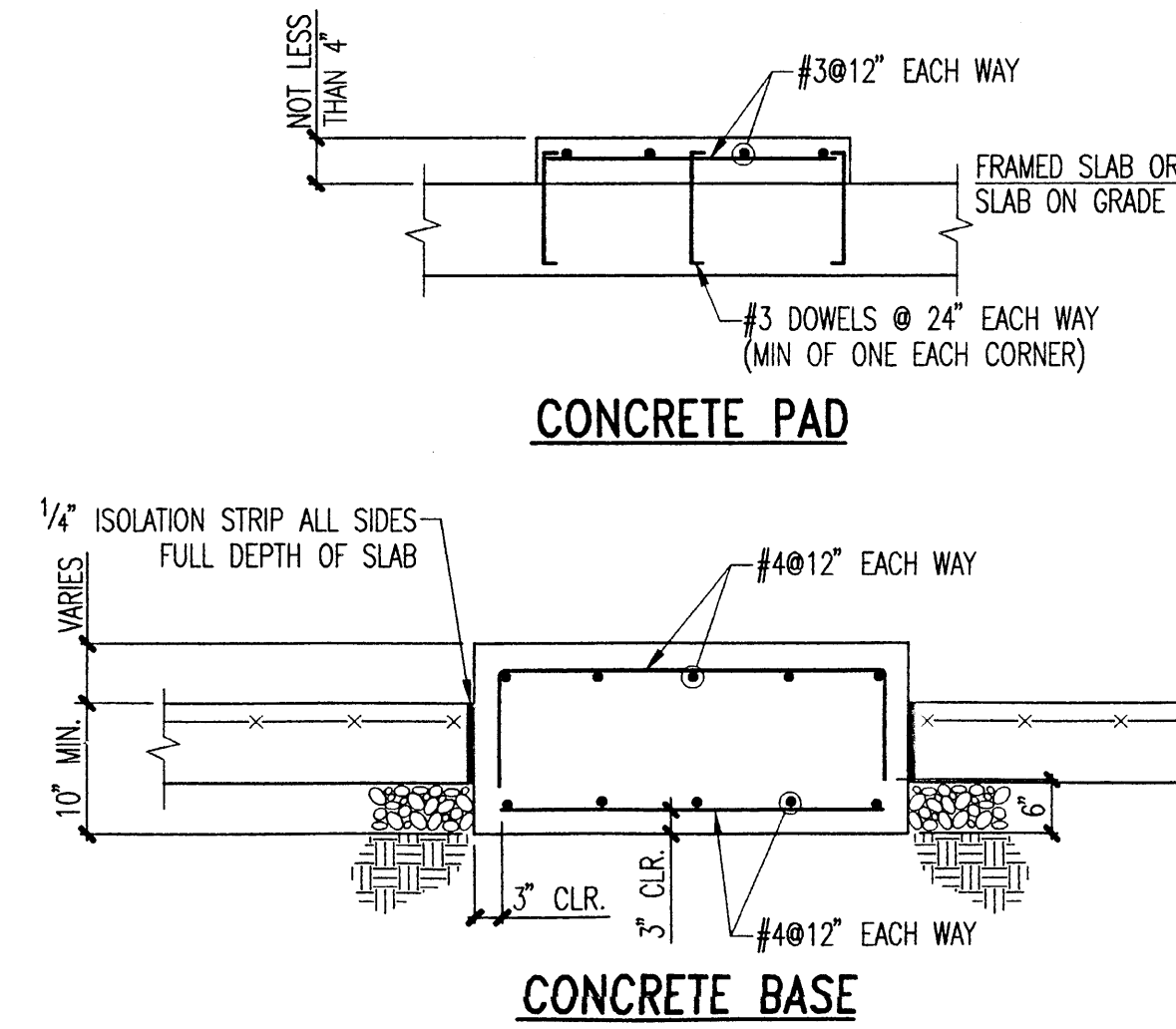
6 SLAB ON GRADE AT STEEL STAIR



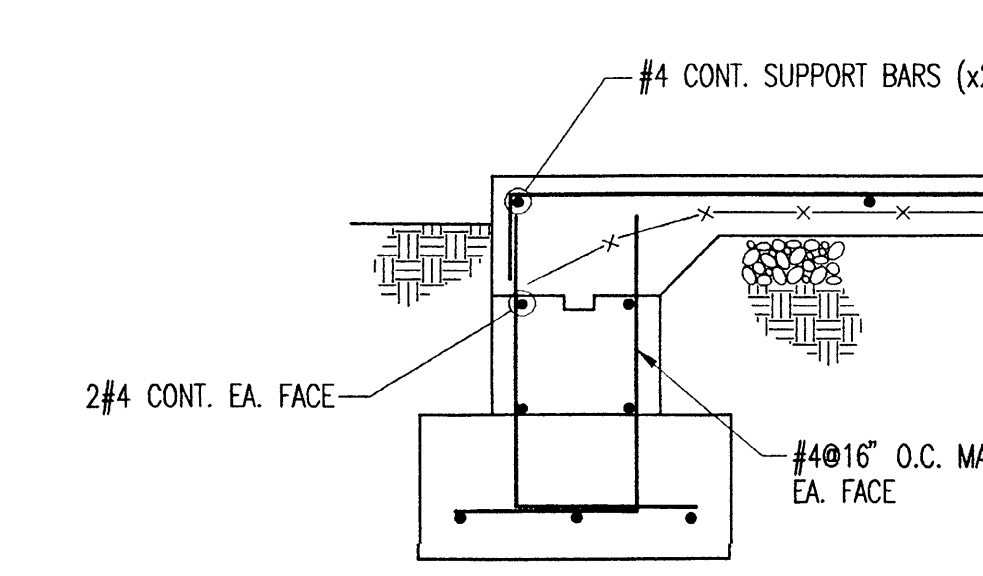
7 TYPICAL THICKENED SLAB DETAIL UNDER MASONRY WALLS



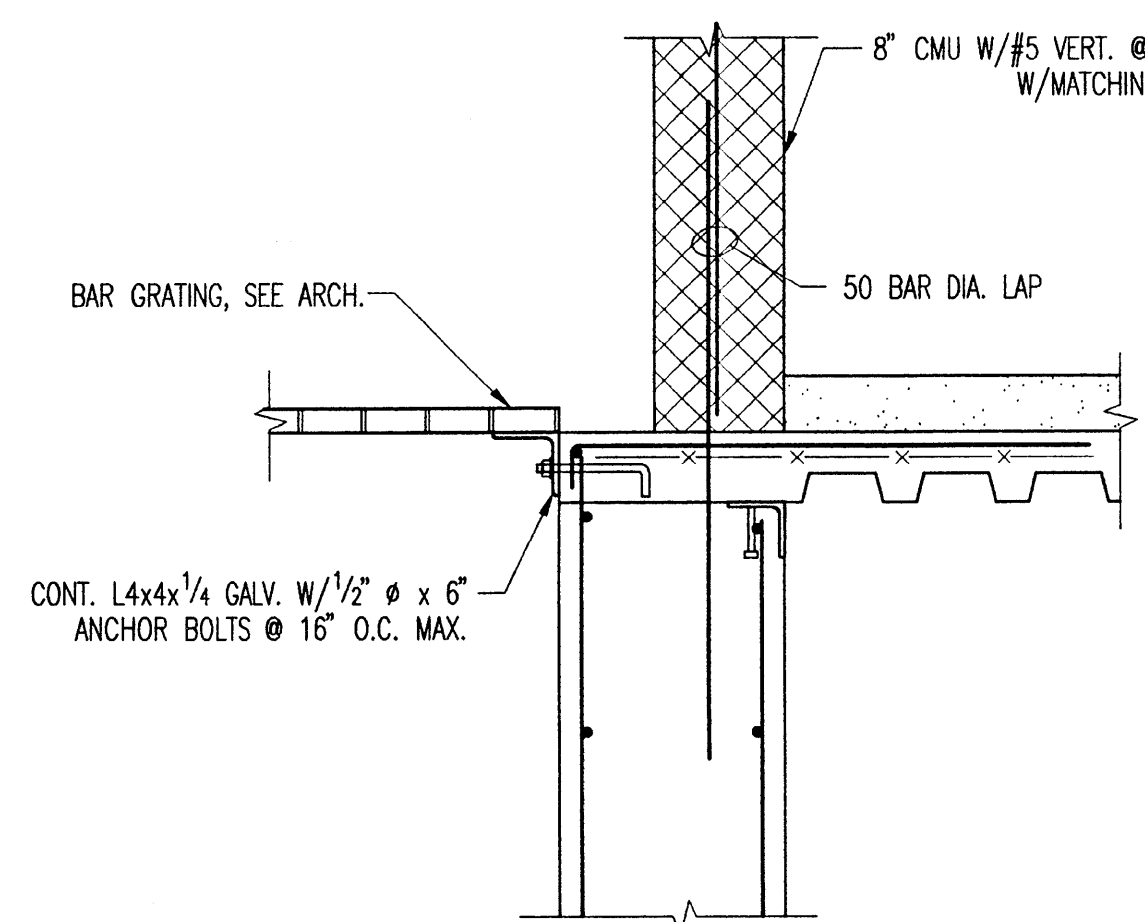
8 STAIR ON GRADE



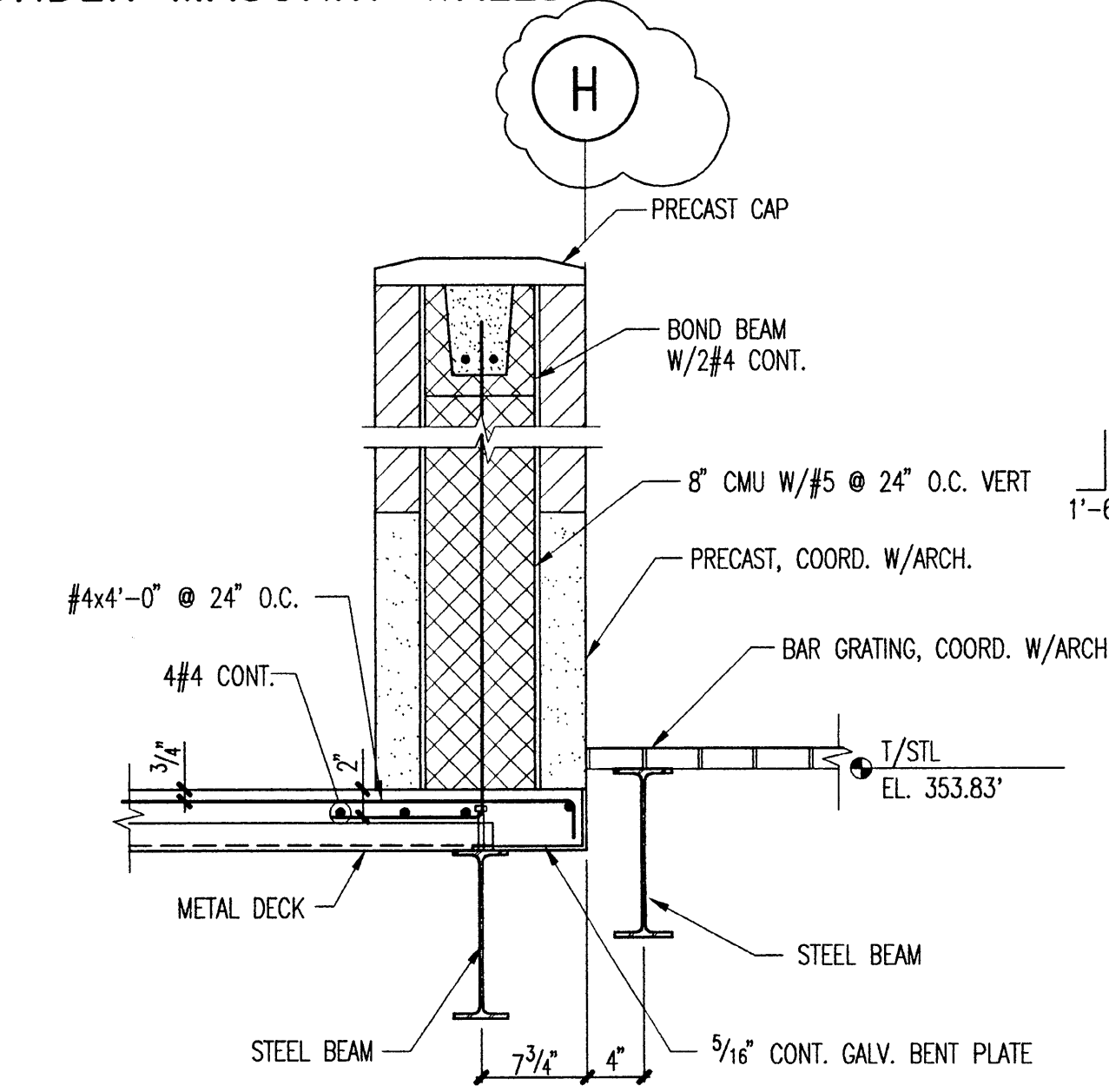
9 CONCRETE BASE AND PAD FOR EQUIPMENT



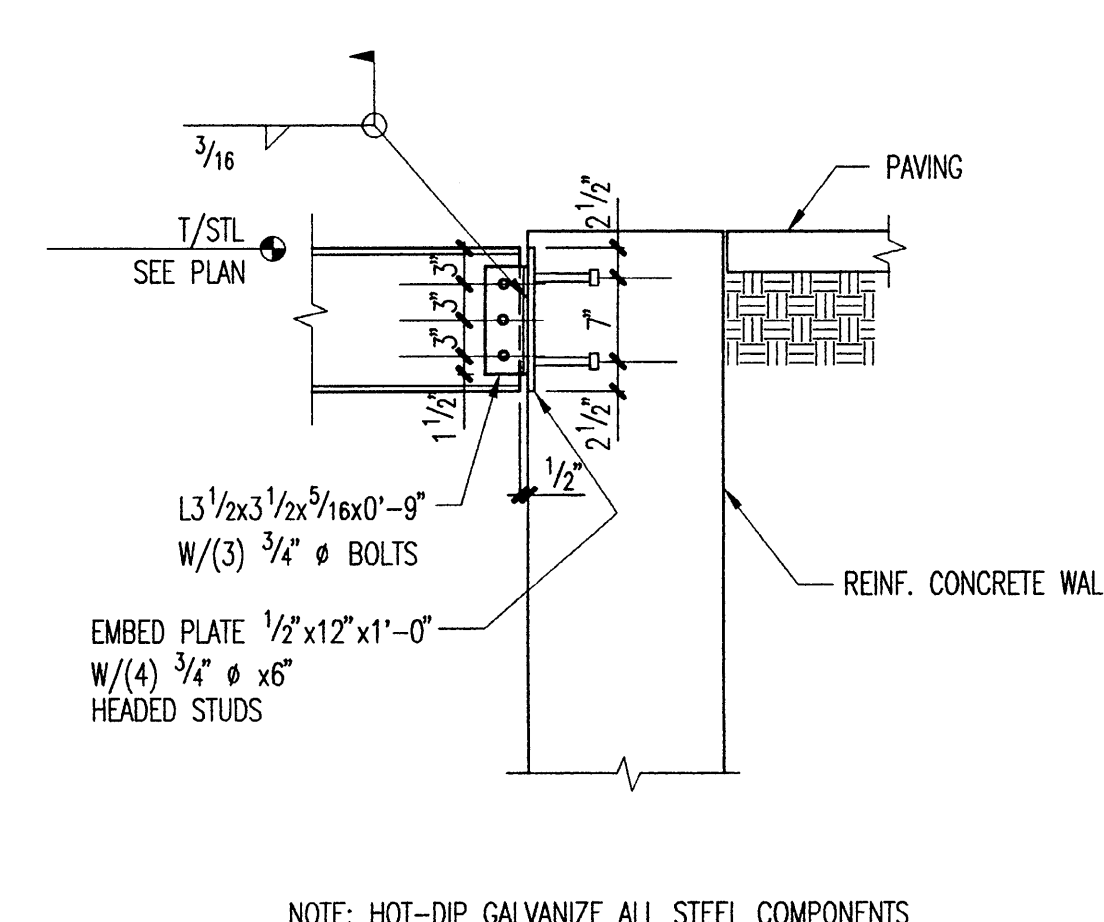
10 SLAB ON GRADE WITHOUT BRICK LEDGE



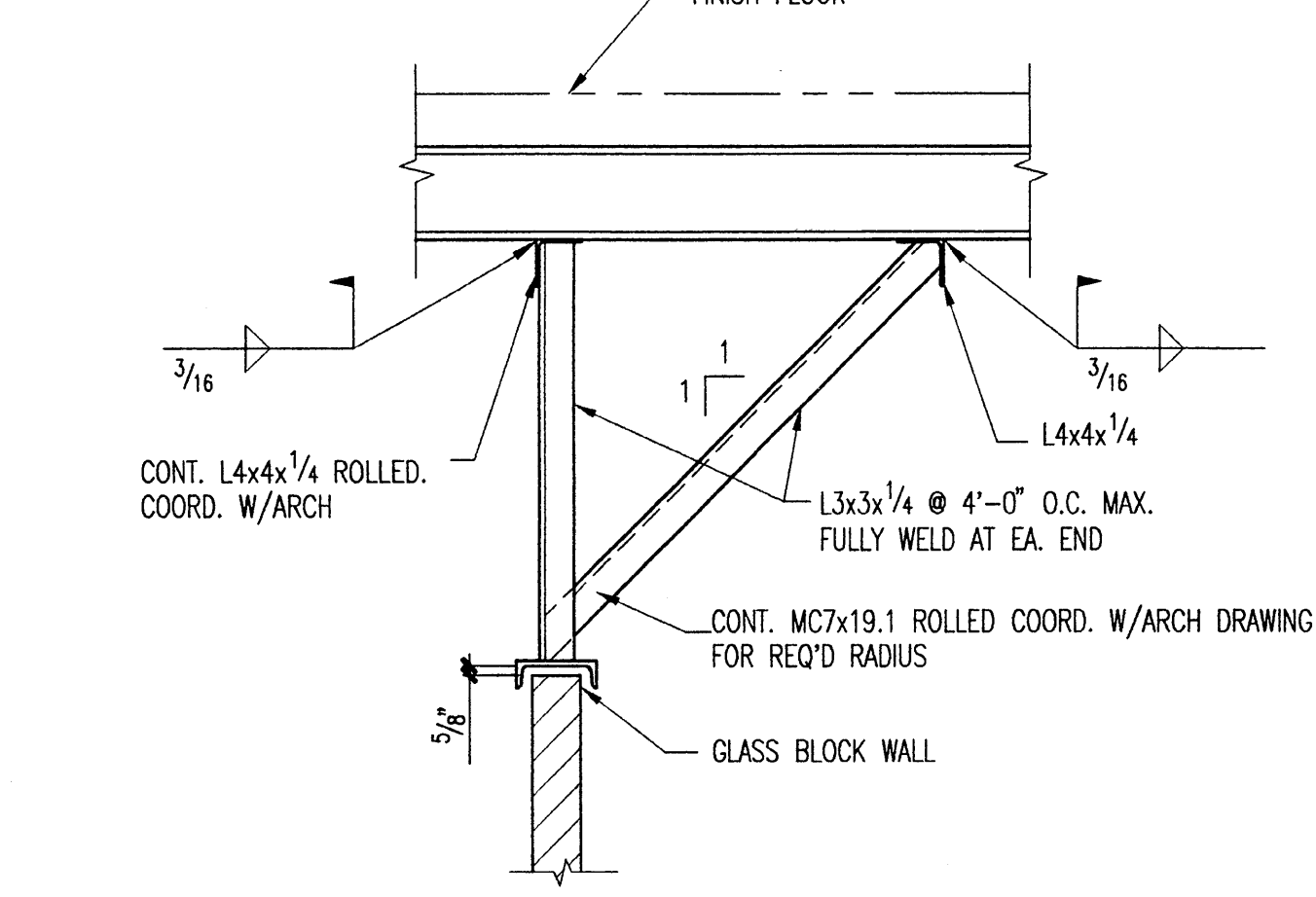
11 SECTION AT AREAWAY



12 SECTION AT AREAWAY

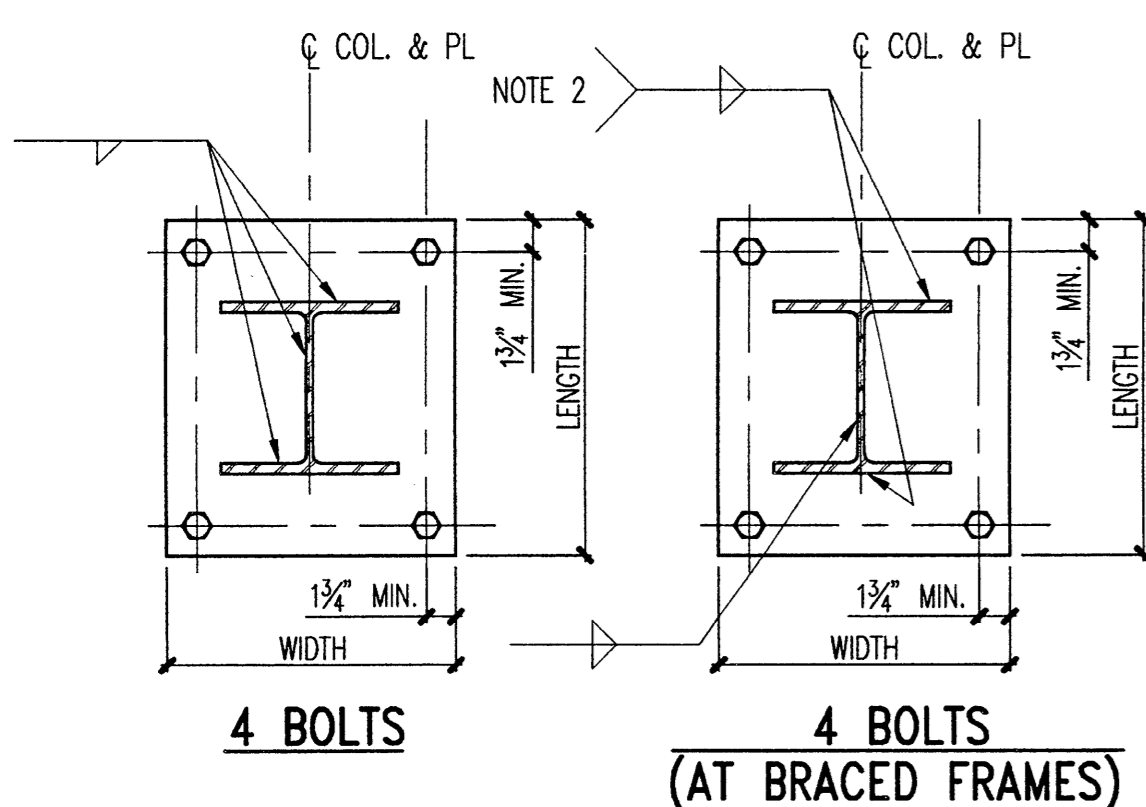


13 BEAM CONNECTION AT AREAWAY (TYPICAL)



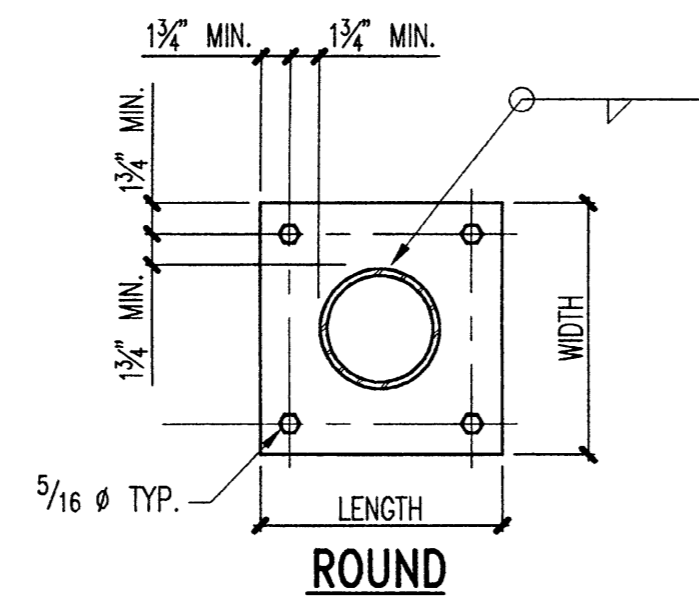
14 GLASS BLOCK HEAD BRACING

Typical Details



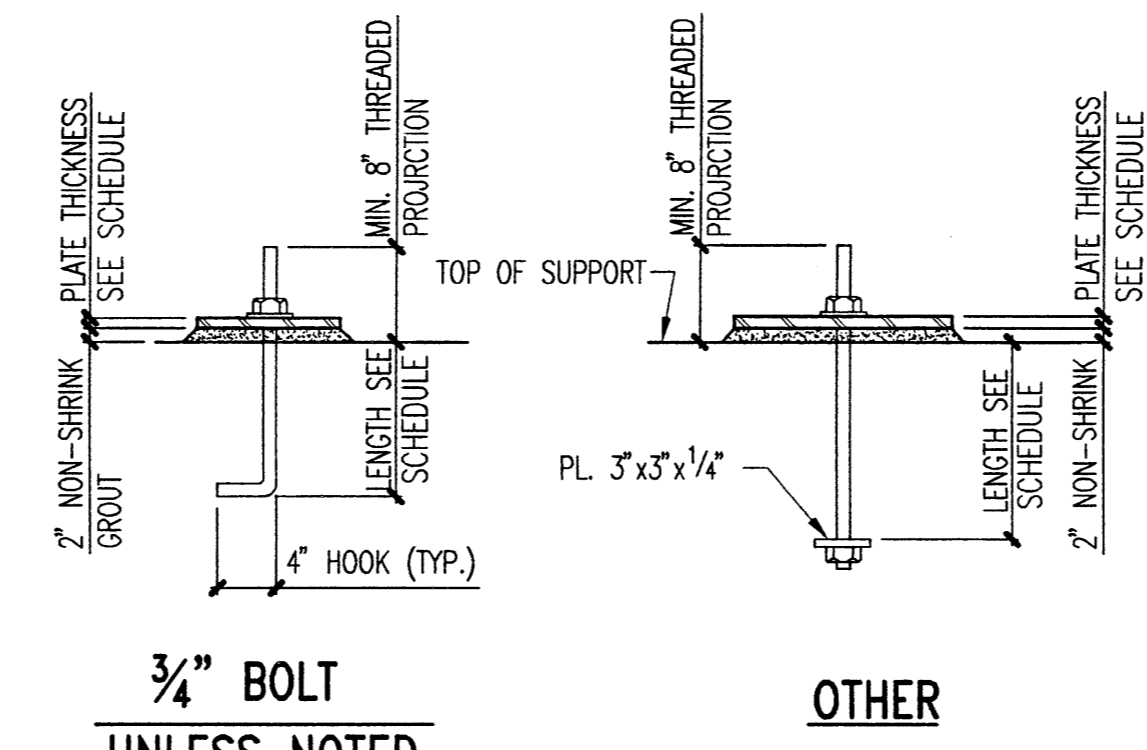
**1 W COLUMN BASE PLATE**

NOTES: 1) SEE SCHEDULE FOR PLATE DIMENSIONS & BOLT SIZES.  
2) WELD AS REQUIRED TO DEVELOP FULL MOMENT CAPACITY OF COLUMN.  
3) MINIMUM WELD TO BE 5/16" FILLET.



**2 PIPE COLUMN BASE PLATE**

NOTE: SEE SCHEDULE FOR PLATE DIMENSIONS & BOLT SIZES.



**3 BASE PLATE SETTING DETAIL**

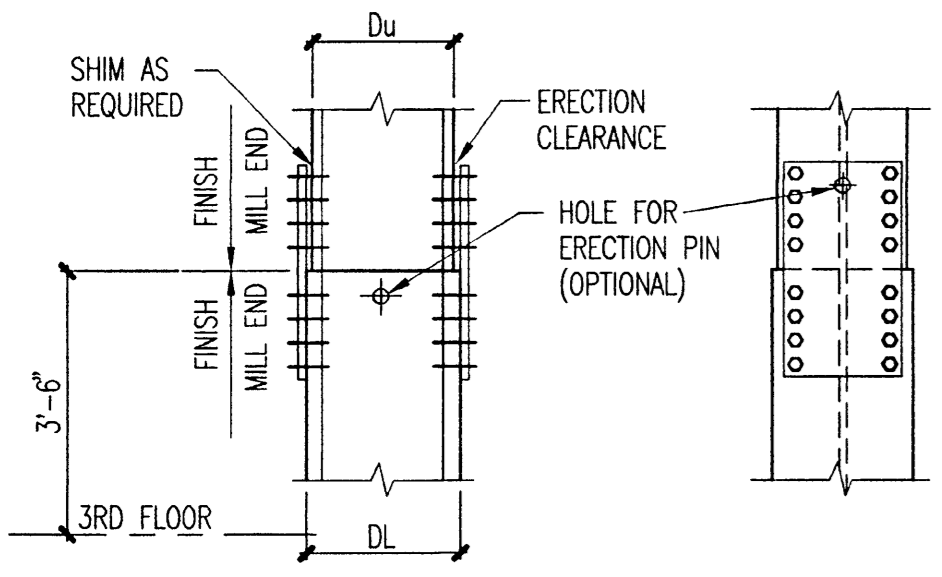
NOTES: 1) SEE SCHEDULE FOR BOLT SIZE.  
2) LEVELING PLATE MAY BE USED AT CONTRACTORS OPTION WITH ENGINEERS APPROVAL.  
3) HEAVY WASHERS OR PLATES REQUIRED AT ALL OVERSIZED HOLES.

THICKNESS OF THICKER PART JOINED (INCHES)	MINIMUM SIZE OF FILLET WELD (INCHES)
TO 1/4 INCLUSIVE	1/8
OVER 1/4 TO 1/2	3/16
OVER 1/2 TO 3/4	1/4
OVER 3/4	5/16

MARK	BASE PLATE SIZE			ANCHOR BOLT		REMARKS
	WIDTH	LENGTH	THICKNESS	NO.	SIZE	
BP-1	17"	17"	1 1/4"	4	3/4"	9"
BP-2	17 1/2"	17 1/2"	1 1/2"	4	3/4"	9"
BP-3	17 1/2"	17 1/2"	1 3/4"	4	3/4"	12"
BP-4	18"	18"	2"	6	1"	16"
BP-5	18 1/2"	18 1/2"	2 1/4"	6	1 1/2"	24"
BP-6	17 1/2"	17 1/2"	1 1/2"	6	1"	20"

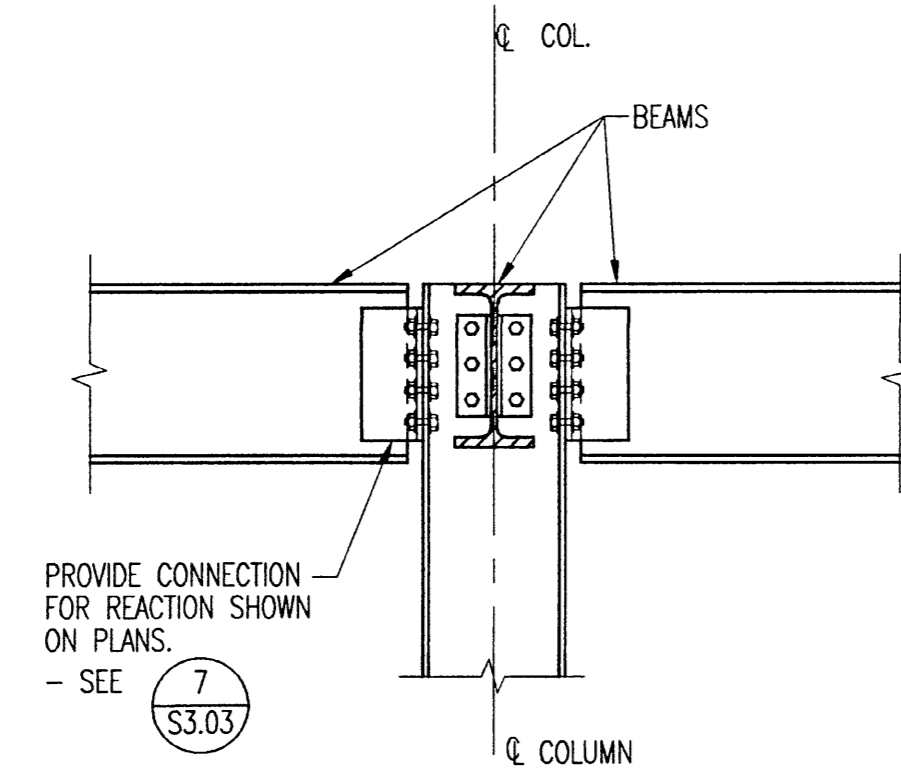
\* LENGTH INDICATED IS MINIMUM EMBEDMENT.

**4 MINIMUM FILLET WELD SCHEDULE**



**5 COLUMN SPLICE - BOLTED**

NOTES: 1) DEPTH OF DU AND DL NOMINALLY THE SAME.  
2) SPLICE TO DEVELOP FULL CAPACITY OF UPPER SECTION IN TENSION.



**6 BEAM TO COLUMN CONNECTION**

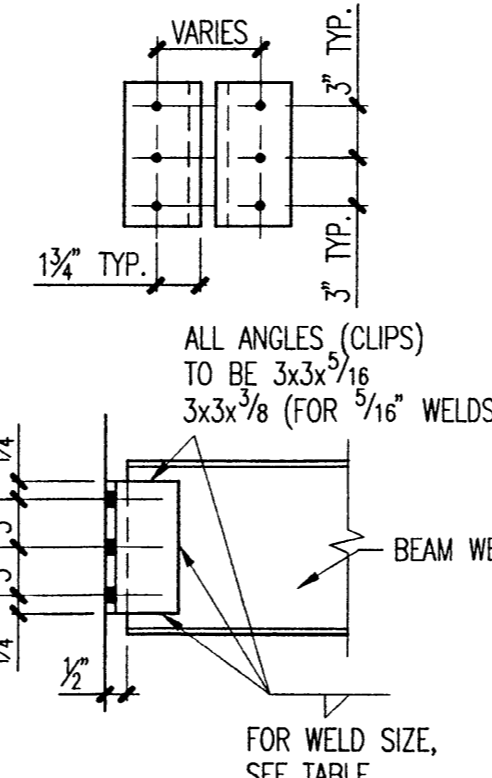
NOTE: SEE PLAN & SCHEDULES FOR SIZES & LOCATION.

TOTAL NUMBER OF BOLTS IN CLIPS	MINIMUM CONNECTION ON BEAM	MAXIMUM CONNECTION ON BEAM	3/4" DIA. BOLT CAPACITY (KIPS)		E70xx WELD CAPACITY (KIPS)					
			A325-N	A325-X	3/16 MIN. WEB	1/4 MIN. WEB	5/16 MIN. WEB	3/8 MIN. WEB		
2	W5,W6	W5,W6	18.6	22.7	18.9	.17	27.8	.26	34.8	.32
4	W8,W10,W12	W8,W10	37.2	45.4	25.4	.26	34.0	.35	42.5	.44
6	W14,W16,W18	W12,W14	55.8	68	40.7	.28	53.5	.37	66.2	.46
8	W21,W24	W16	74.4	91	55.5	.29	74.2	.39	90.8	.48
10	W27,W30	W18	93.0	113	70.0	.30	94.9	.41	116	.50
12	W33,W36	W21	112	136	84.8	.31	114	.42	141	.52

NOTES: 1) WHEN BEAM WEB THICKNESS IS LESS THAN MINIMUM REQUIRED MULTIPLY LISTED CAPACITY BY RATIO OF ACTUAL THICKNESS TO LISTED MINIMUM THICKNESS.  
2) MINIMUM WEB THICKNESS (A36) TO DEVELOP BEARING = .204".

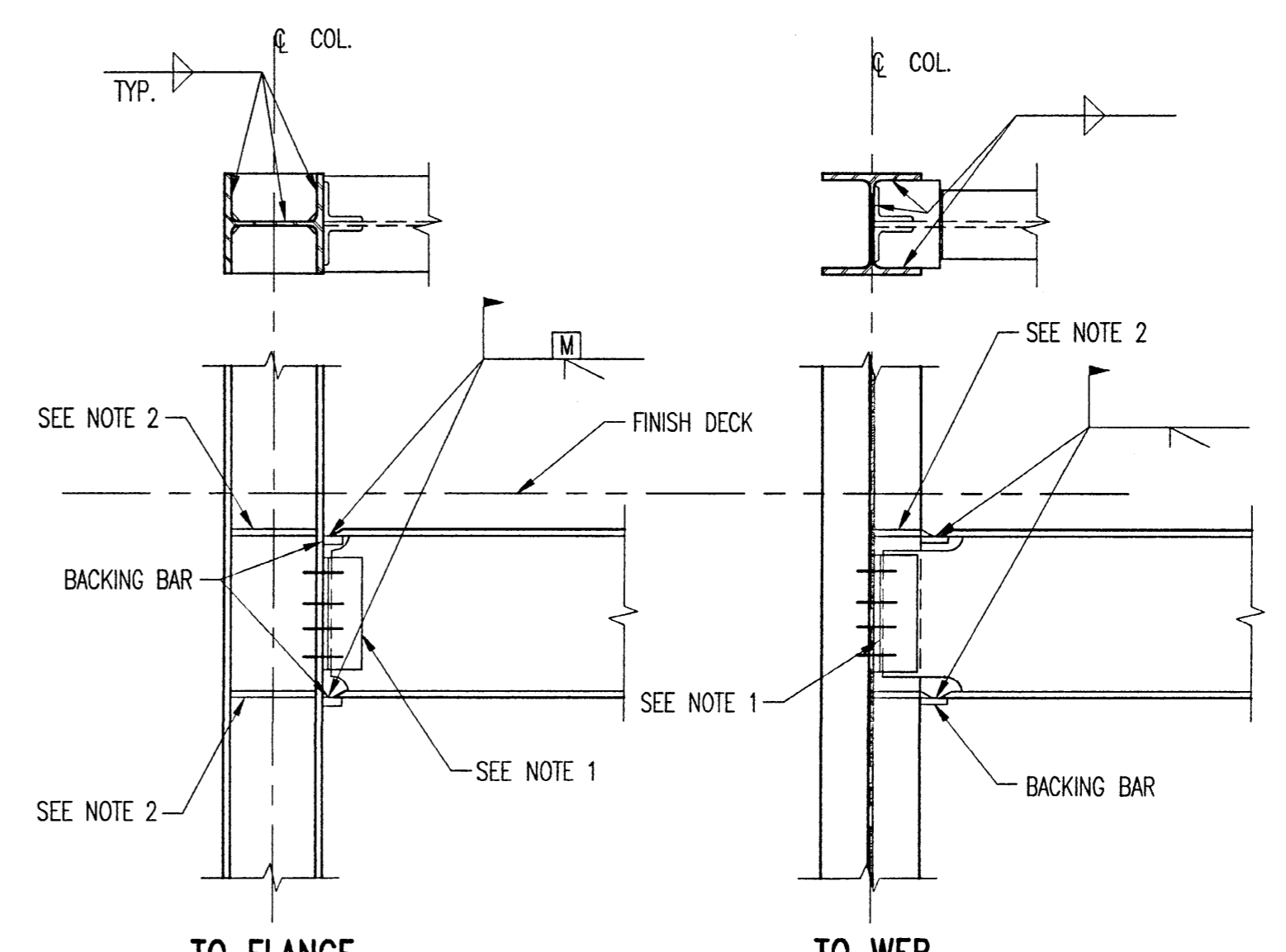
**7 TYPICAL FRAMED BEAM CONNECTIONS**

NOTE: DO NOT USE THIS DETAIL FOR COLUMNS LESS THAN 8" x 8" (SEE 8/S303 FOR ADDITIONAL NOTES)



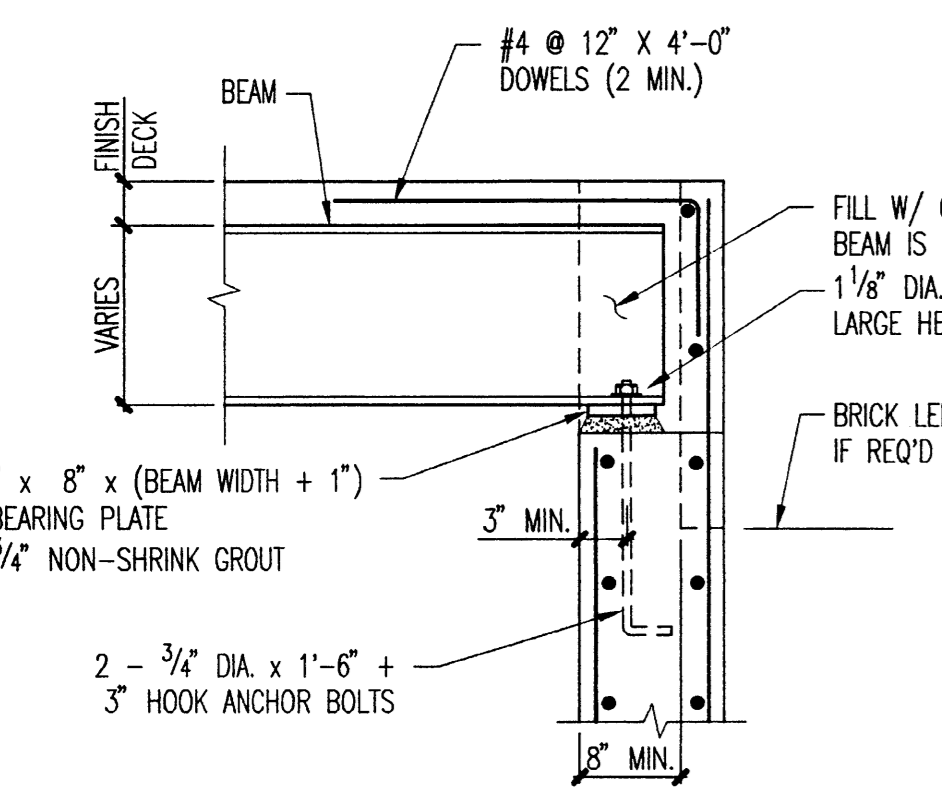
**8 CONNECTION DETAIL NOTES STRUCTURAL STEEL**

NOTES: 1) STRUCTURAL STEEL CONNECTIONS HAVE BEEN DESIGNED AND DETAILED BY THE ENGINEER OF RECORD AS INDICATED ON THESE PLANS AND ACCOMPANYING GENERAL NOTES.  
2) ALTERNATIVE CONNECTION DETAILS MAY BE SUBMITTED ON SHOP DRAWINGS BY THE CONTRACTOR ONLY IF ACCOMPANIED BY COMPLETE STRUCTURAL CALCULATIONS PREPARED AND SEALED BY AN ENGINEER, LICENSED IN THE PROJECT'S JURISDICTION. FAILURE TO SUBMIT SUCH CALCS. FOR REVIEW CONCURRENT WITH SHOP DRAWING ERECTION PLANS AND DETAILS WILL BE CAUSE FOR REJECTION OF THAT SUBMITTAL.  
3) CALCS. FOR DETAILS MUST SHOW A RATIONAL ANALYSIS OF A COMPLETE LOAD PATH, INCLUDING LOCAL EFFECTS ON WEBS, FLANGES, ETC. OF THE CONNECTED MEMBERS AND THE DEVICES (PLATES, SEATS, BRACKETS, BOLTS, WEBS, ETC.) AFFECTING ALL CONNECTIONS.



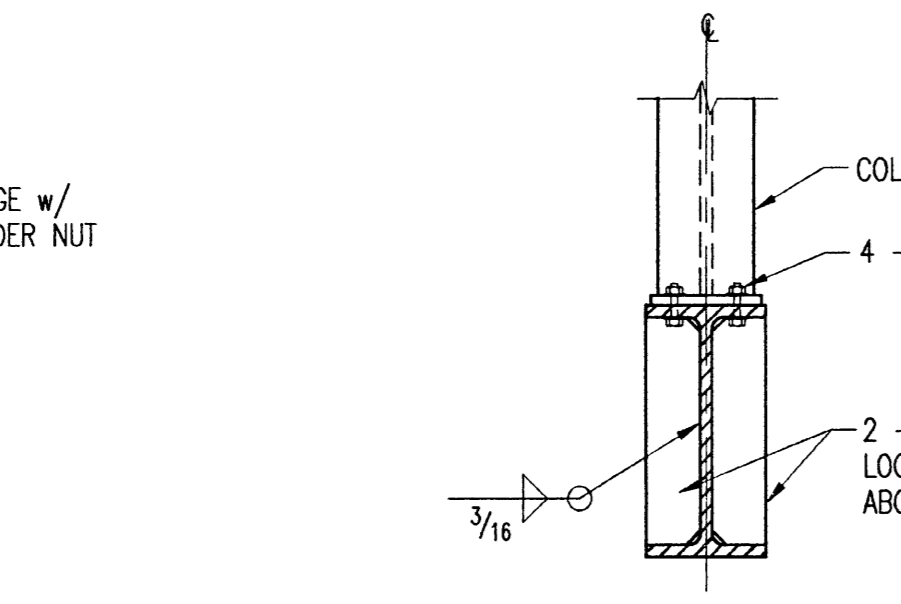
**9 BEAM TO COLUMN WELDED CONNECTION TYPE 1 - FULLY RIGID**

NOTES: 1) WEB CONNECTION FOR REACTION SHOWN ON PLAN - SEE DETAIL.  
2) STIFFENER PLATES TO MATCH RM FLANGE THICKNESS, TOP & BOTTOM.  
3) SEE PLANS FOR LOCATIONS AND BEAM AND COLUMN SIZES.  
4) PROVIDE COMPLETE PENETRATION GROOVE WELDS UNLESS OTHERWISE SHOWN.  
5) AT TOP LEVEL PROVIDE COLUMN CAP PL. IN LIEU OF TOP STIFFENER.



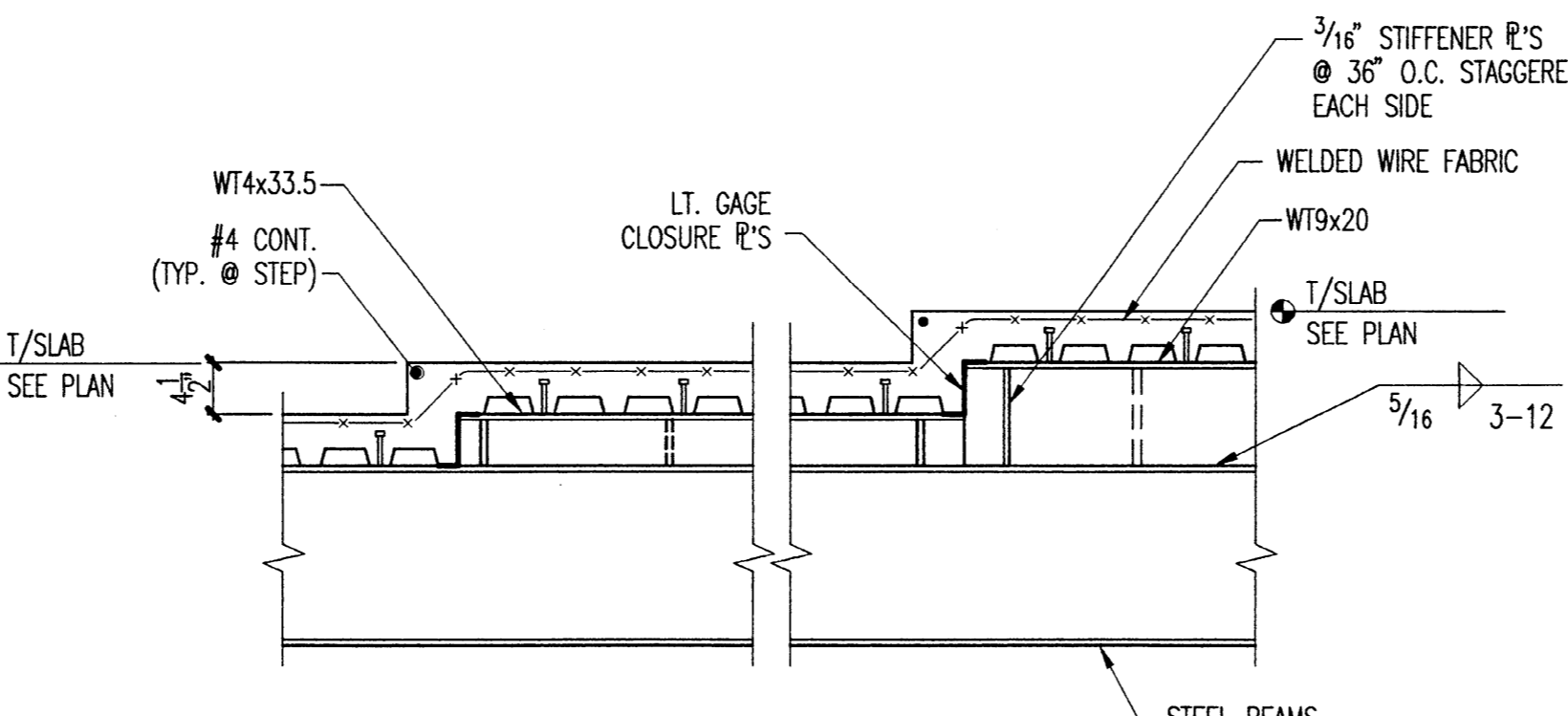
**10 BEAM BEARING ON CONCRETE WALL**

NOTES: 1) SEE PLANS & SCHEDULES FOR SIZES & LOCATION.  
2) USE SETTING TEMPLATE TO HOLD BOLTS IN PLACE.



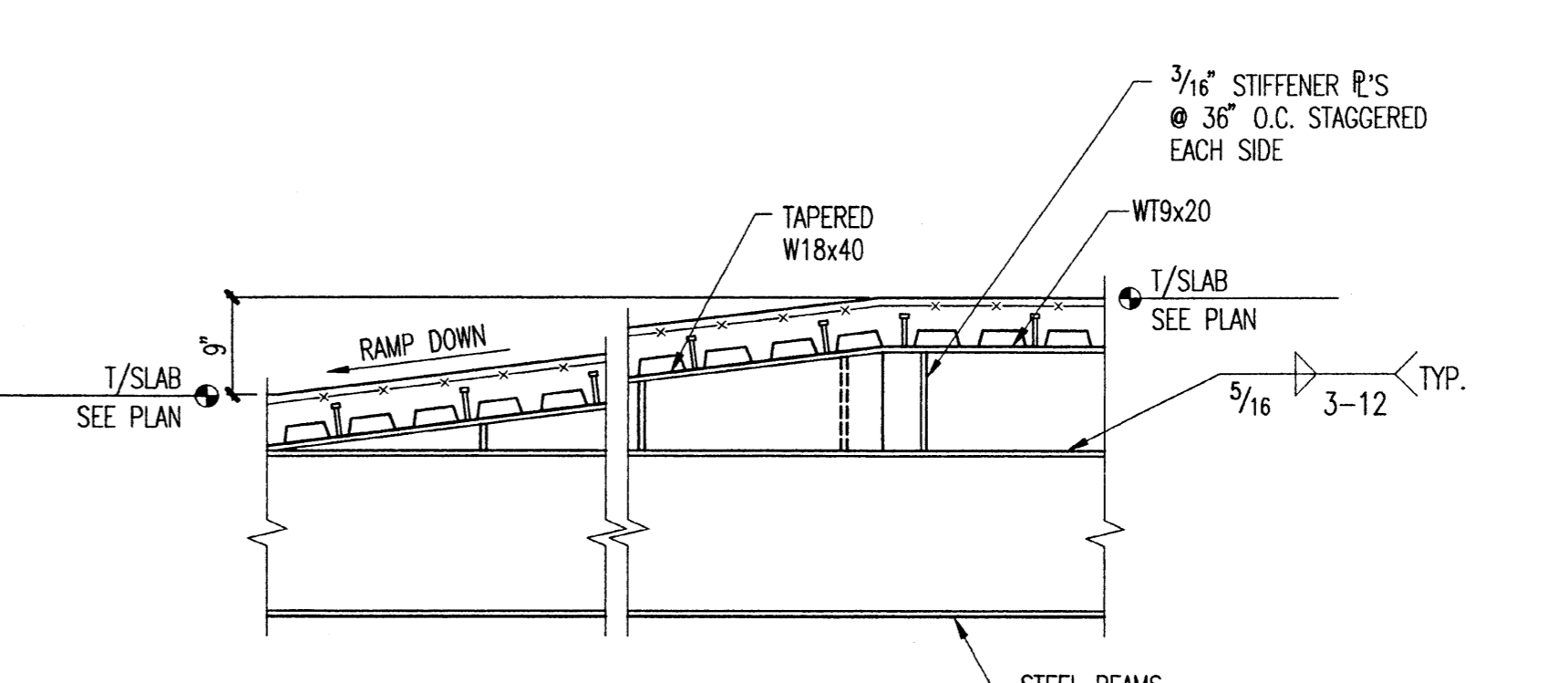
**11 COLUMN TO TRANSFER GIRDER CONNECTION**

NOTES: 1) SEE PLANS & SCHEDULES FOR SIZES & LOCATION.  
2) IF COLUMN FLANGE IS WIDER THAN BEAM FLANGE, EXTEND BEAM STIFF. PLATES, & ADD FILLER PLATES AT BEAM TOP FLANGE OF SUFFICIENT WIDTH TO SUPPORT COLUMN BASE PLATE.  
3) COORDINATE WITH ARCHITECTURAL DRAWINGS FOR ADDITIONAL STEEL FOR FLASHING AT POST-UP COLUMNS AT ROOF.



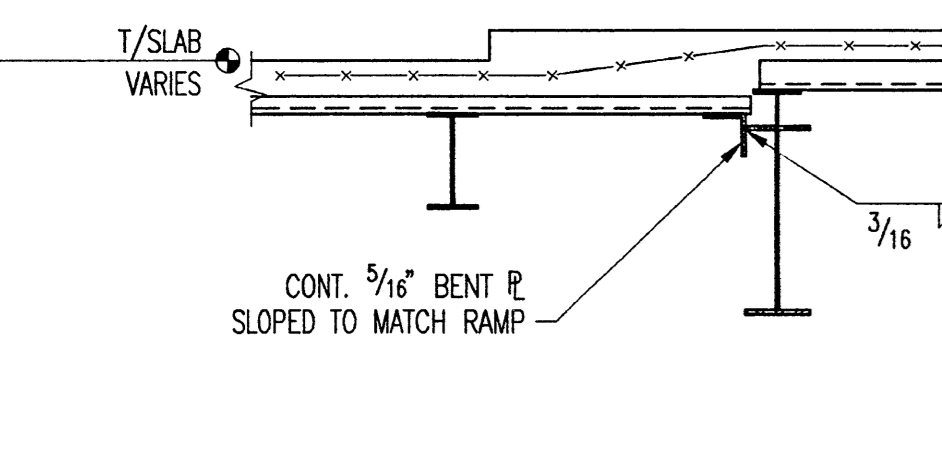
**12 SECTION AT SLAB STEP**

3/4"=1'-0"



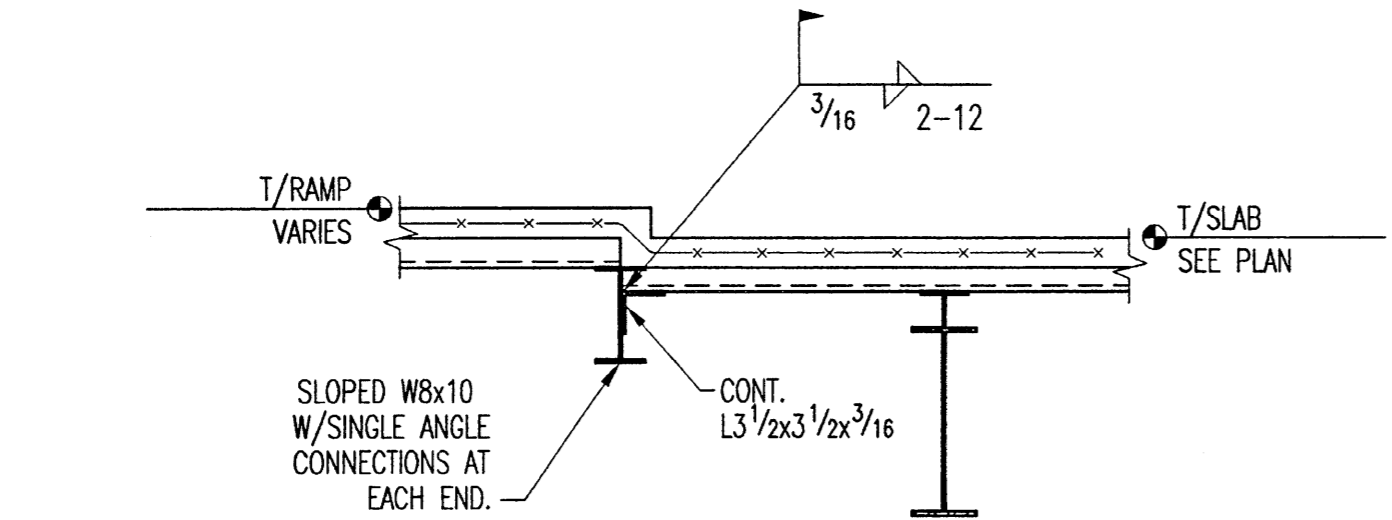
**13 SECTION AT RAMP**

3/4"=1'-0"



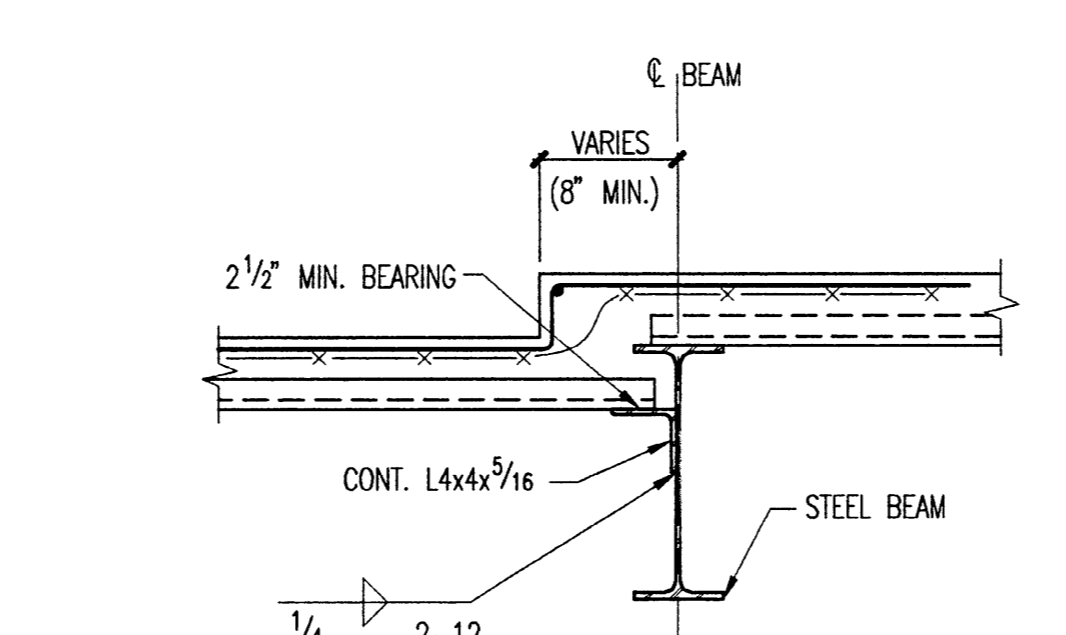
**14 SECTION AT RAMP (RAMP LOWER THAN SLAB)**

3/4"=1'-0"



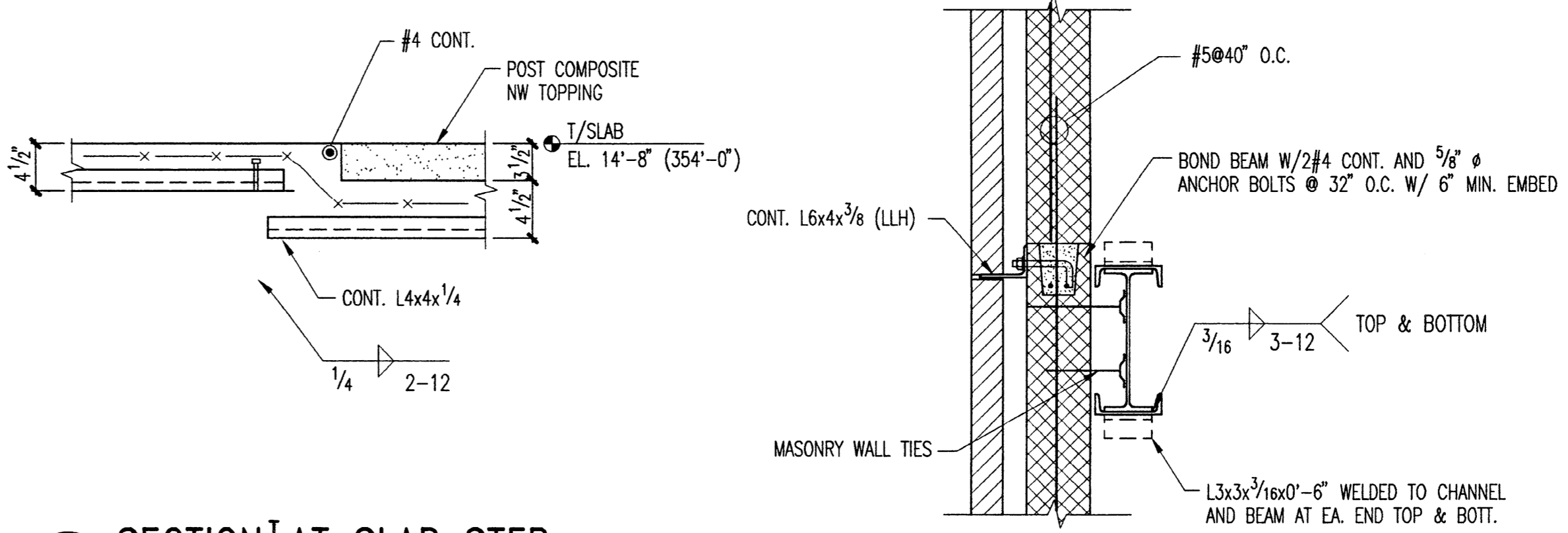
**15 SECTION AT RAMP (RAMP HIGHER THAN SLAB)**

3/4"=1'-0"



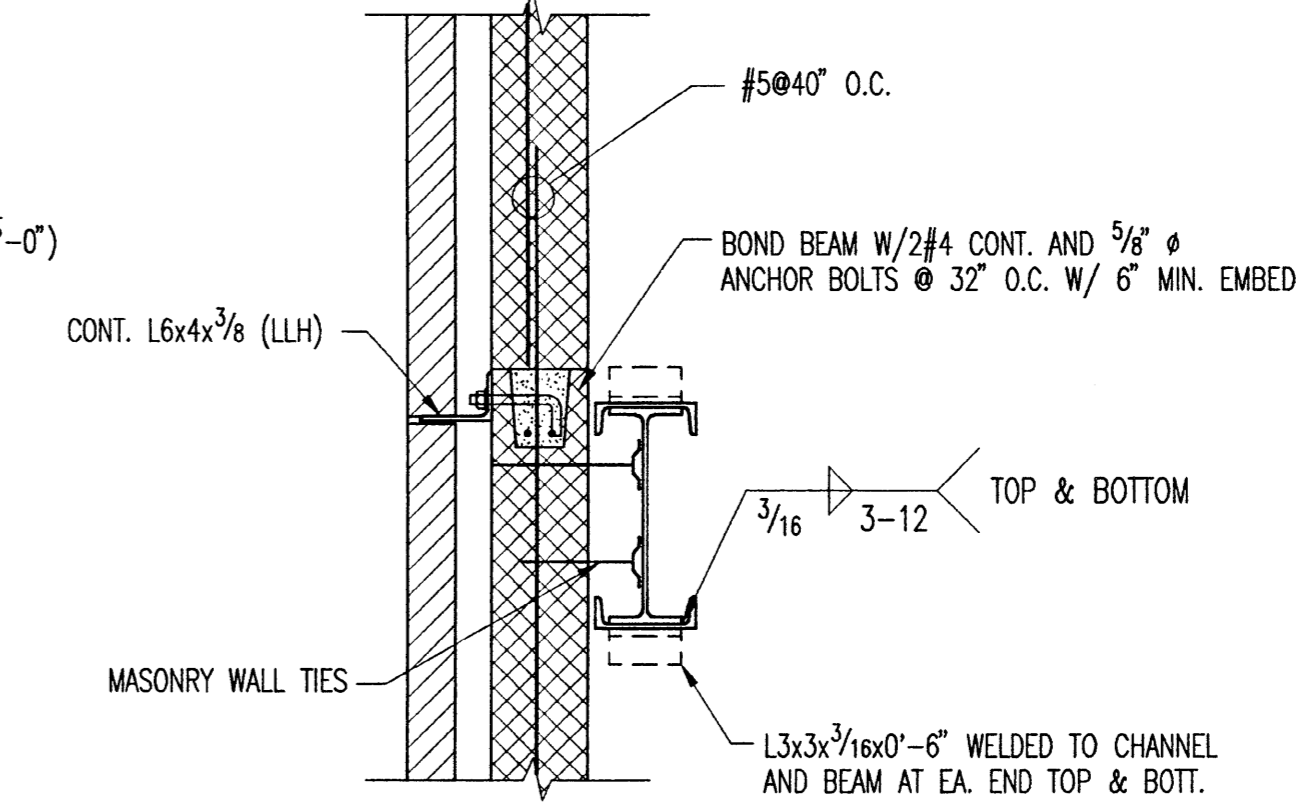
**16 SECTION AT SLAB DEPTH**

1"=1'-0"



**17 SECTION AT SLAB STEP**

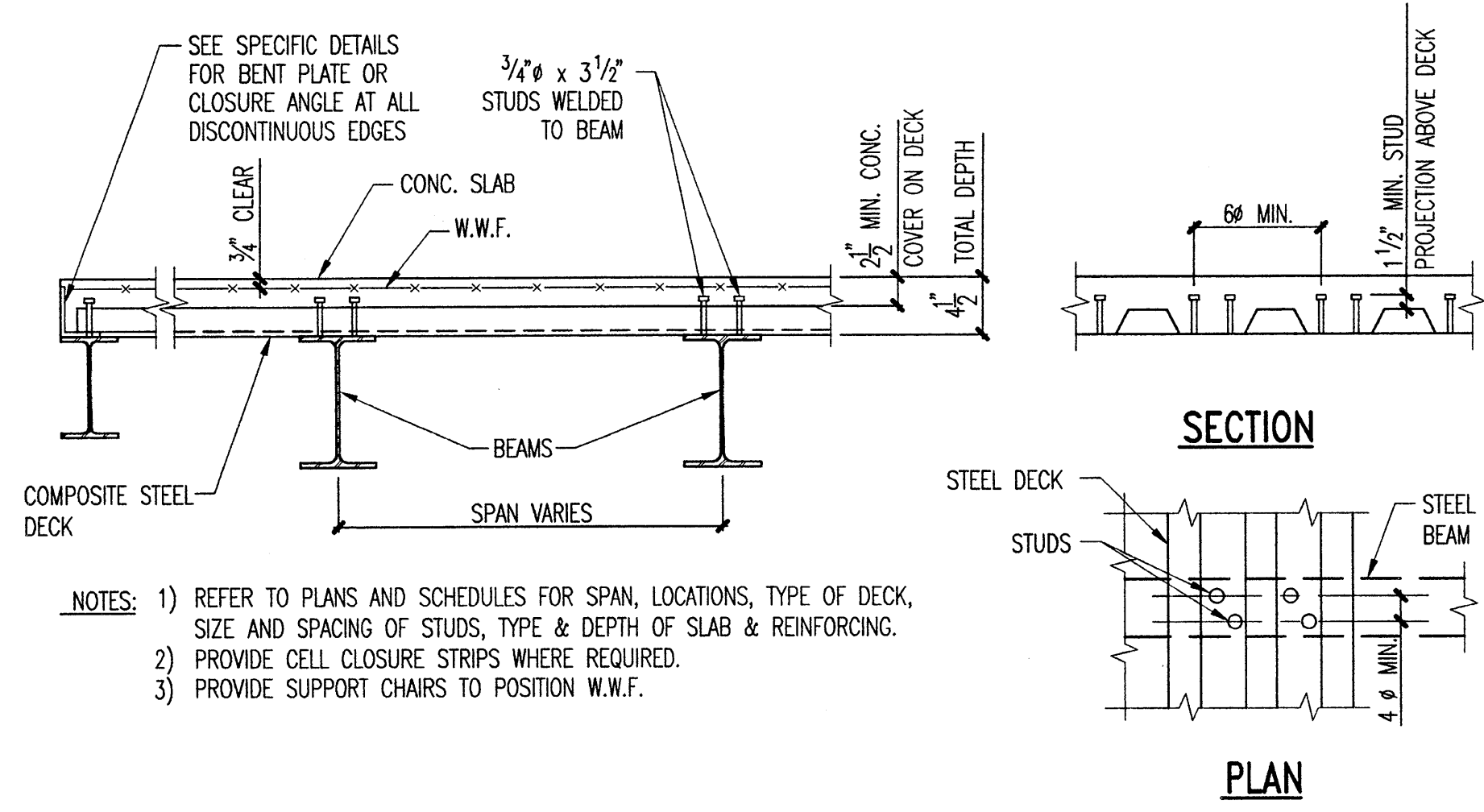
1"=1'-0"



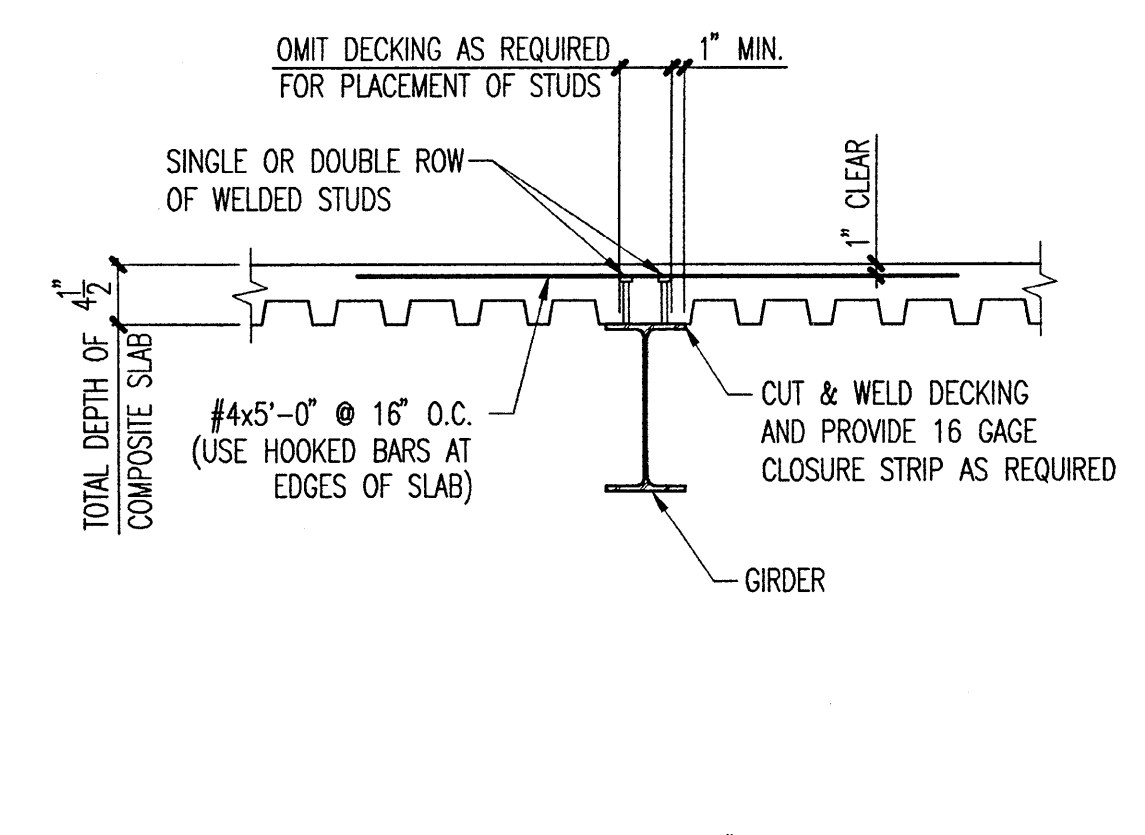
**18 SECTION AT STAIR**

3/4"=1'-0"

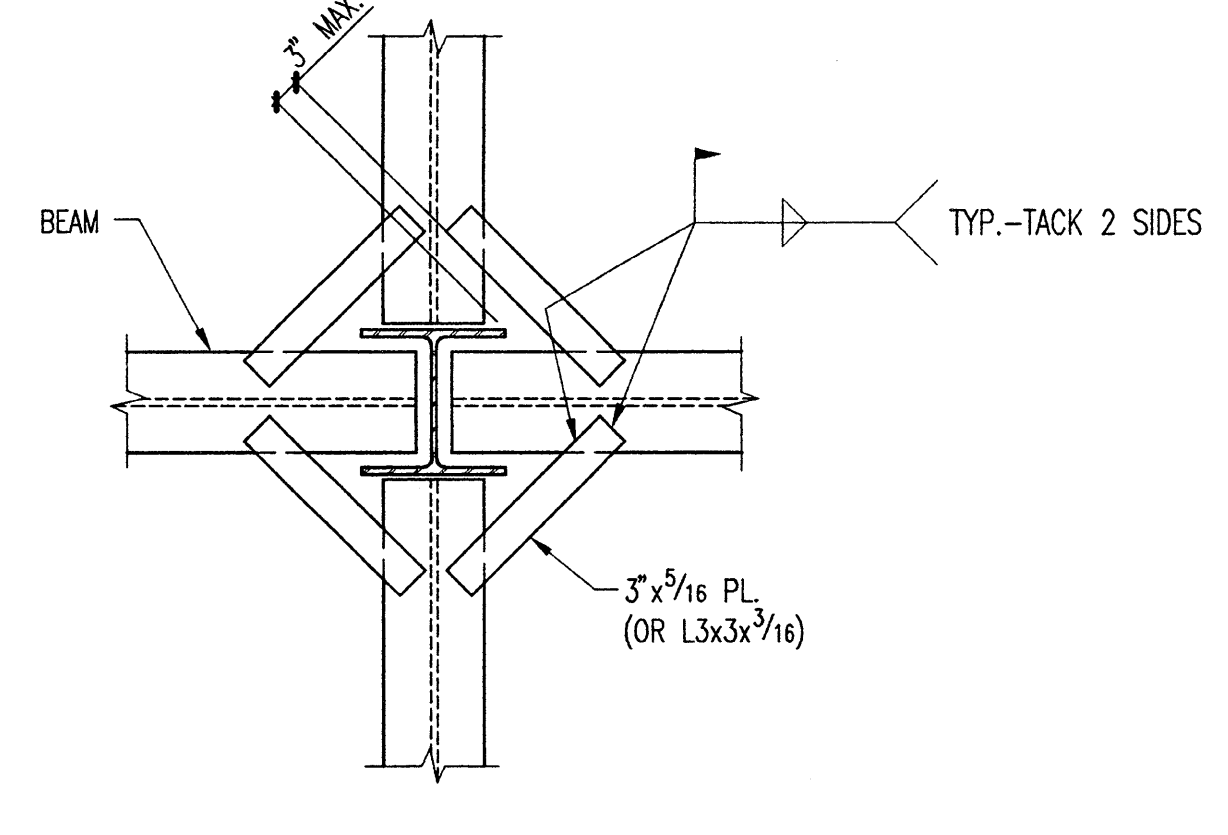
Steel Framing Details



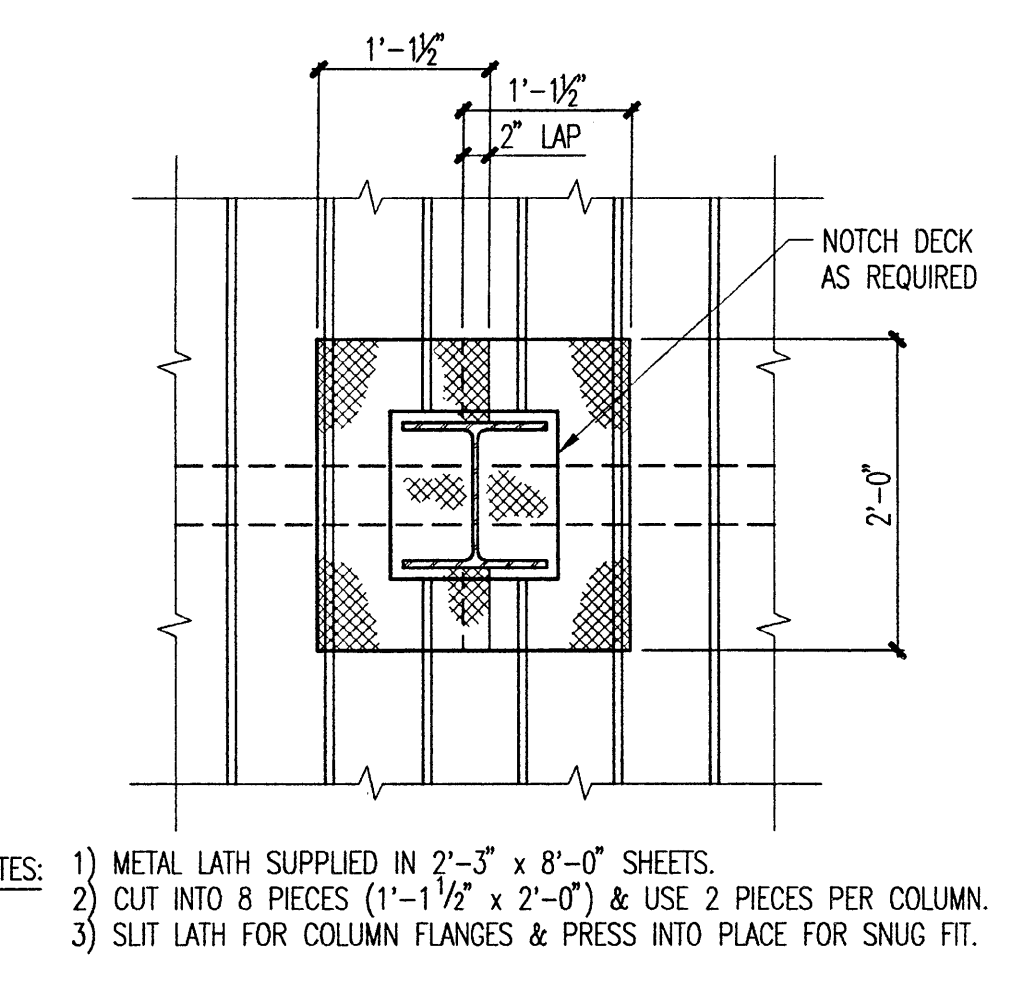
1 CONCRETE COMPOSITE SLAB



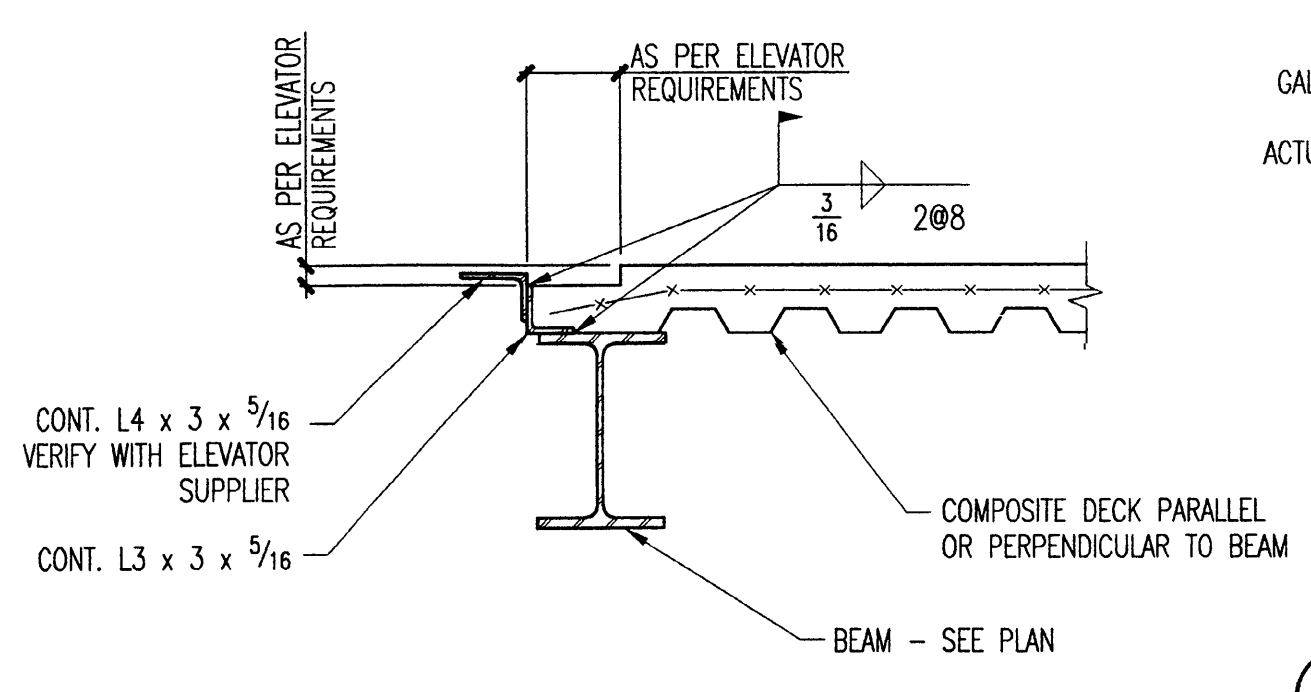
2 COMPOSITE STEEL DECK PARALLEL TO BEAM



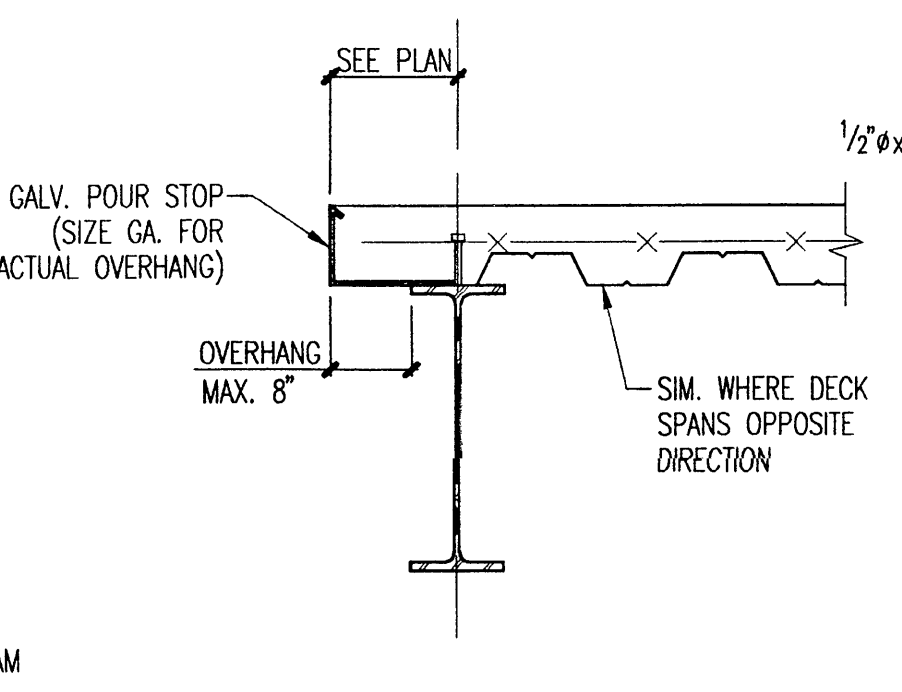
3 SUPPORT OF FLOOR DECK AT COLUMN



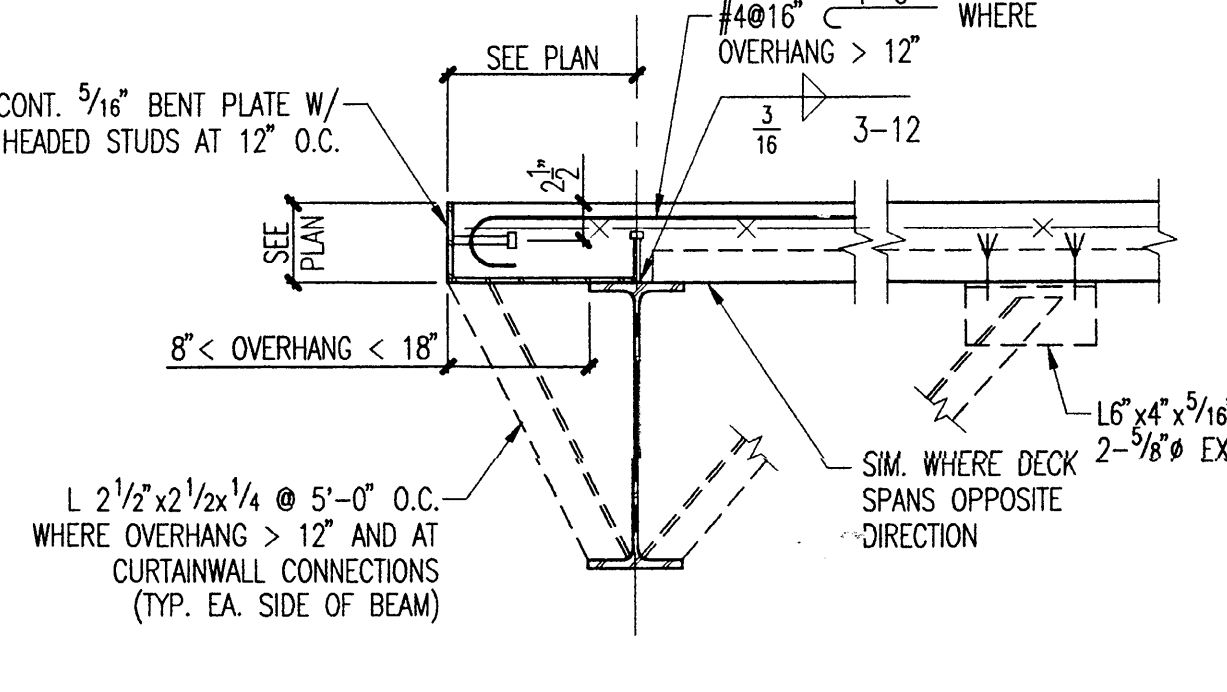
4 DAM FOR DECK POUR AT COLUMN



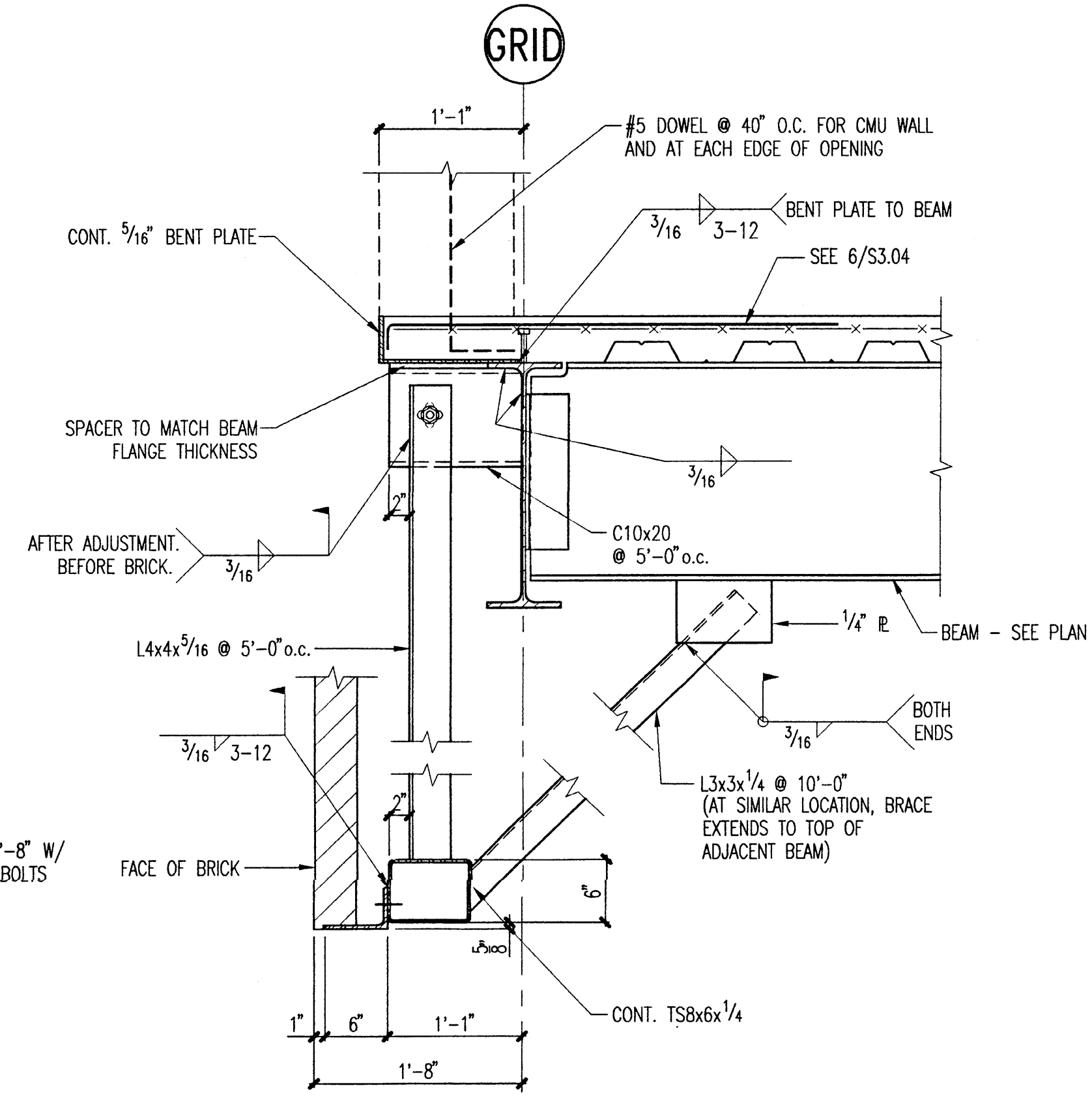
5 SILL AT ELEVATOR DOOR STEEL FRAMED DOOR



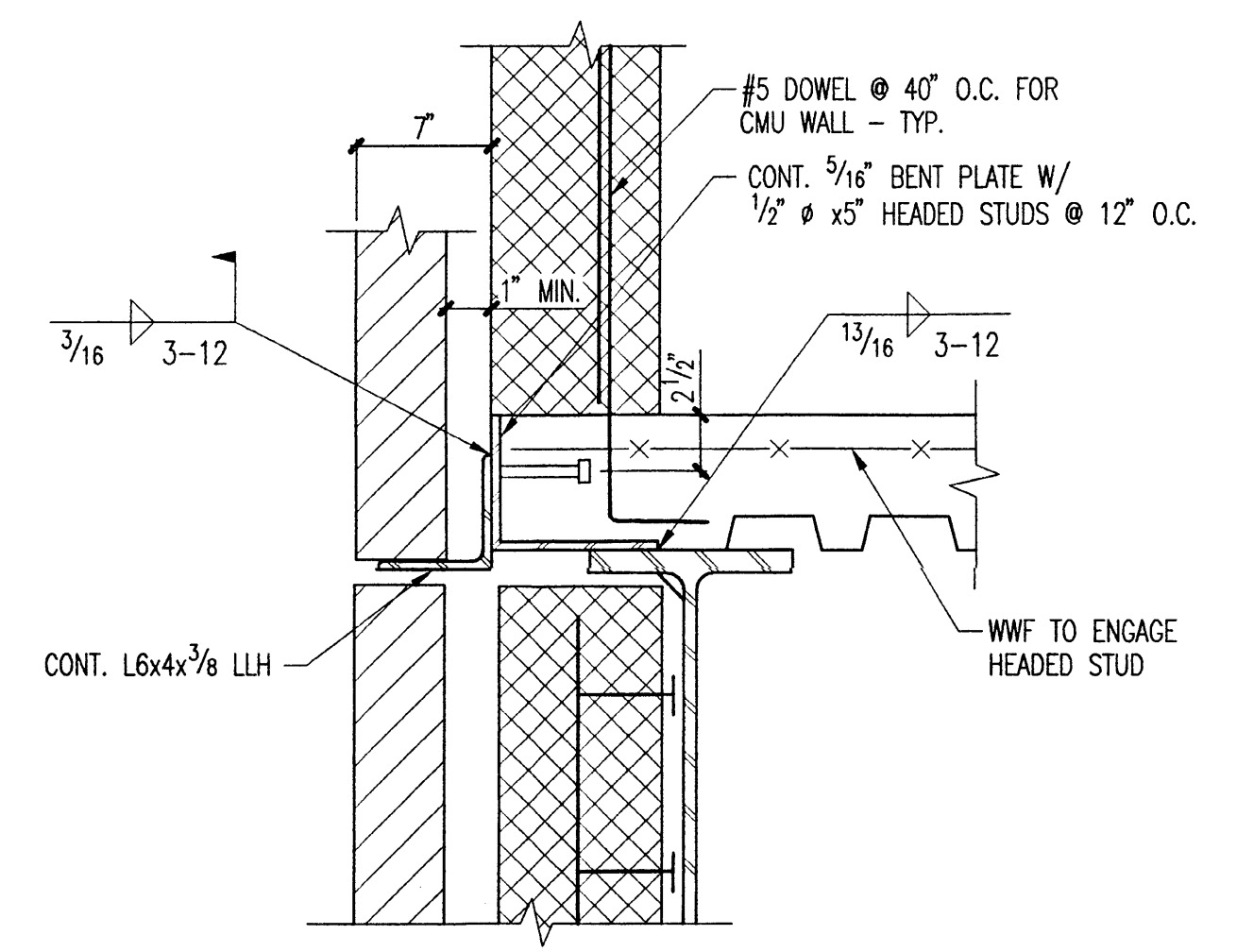
A INTERIOR CONDITIONS ONLY



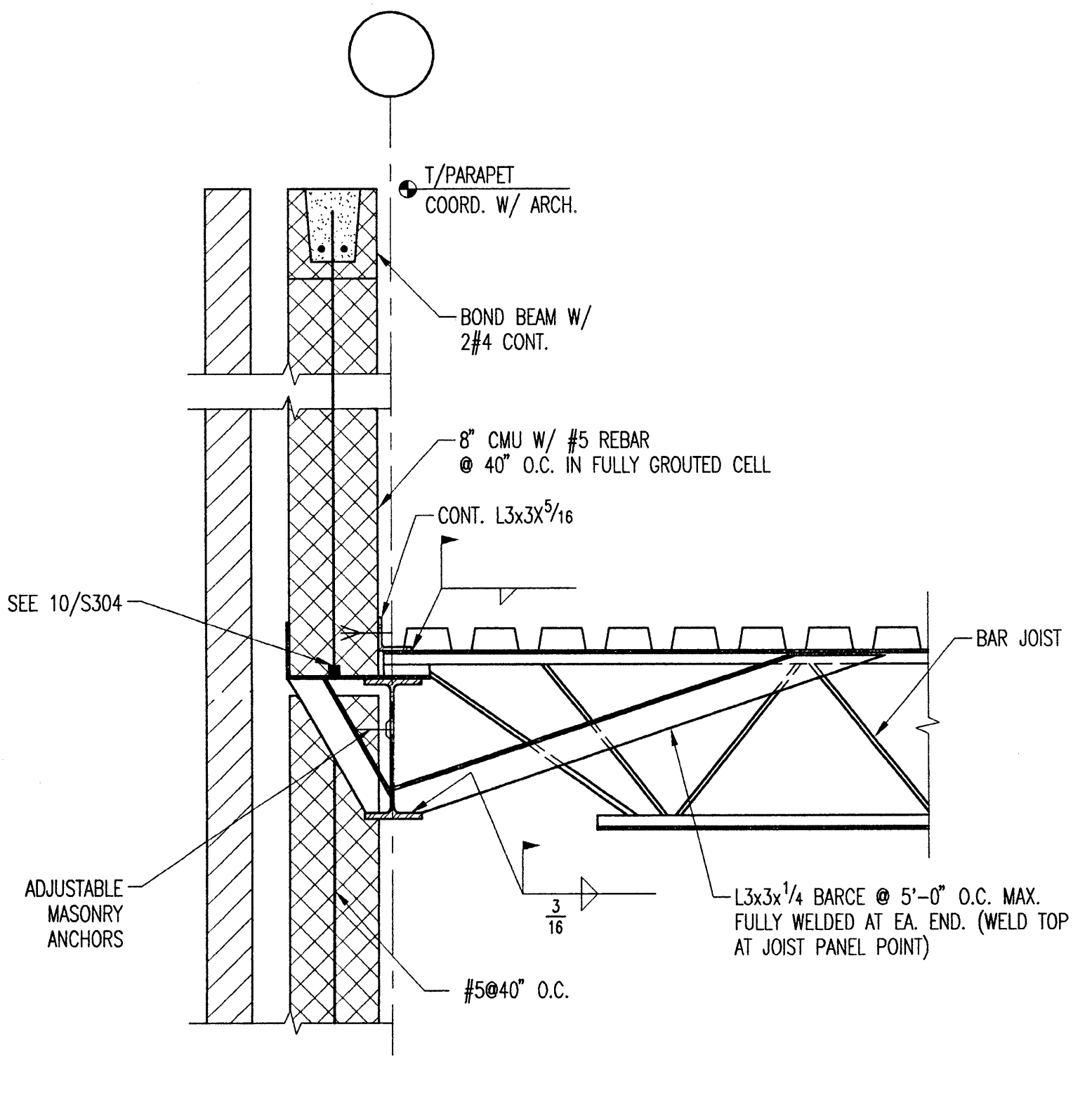
B ALL EXTERIOR EDGES AND INTERIOR > 8\"/>



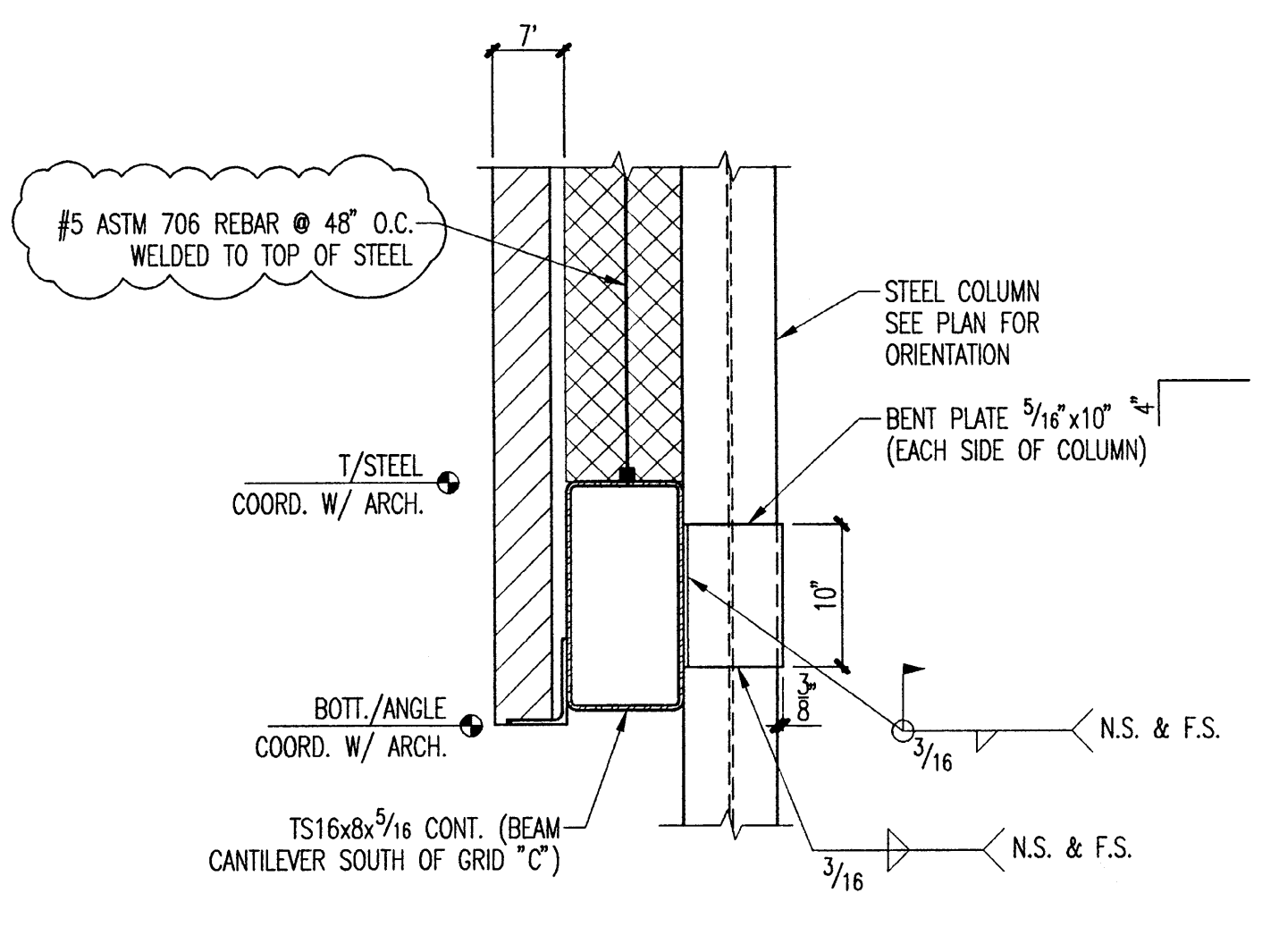
7 SPANDREL DETAIL AT SUPPORTED BRICK VENEER



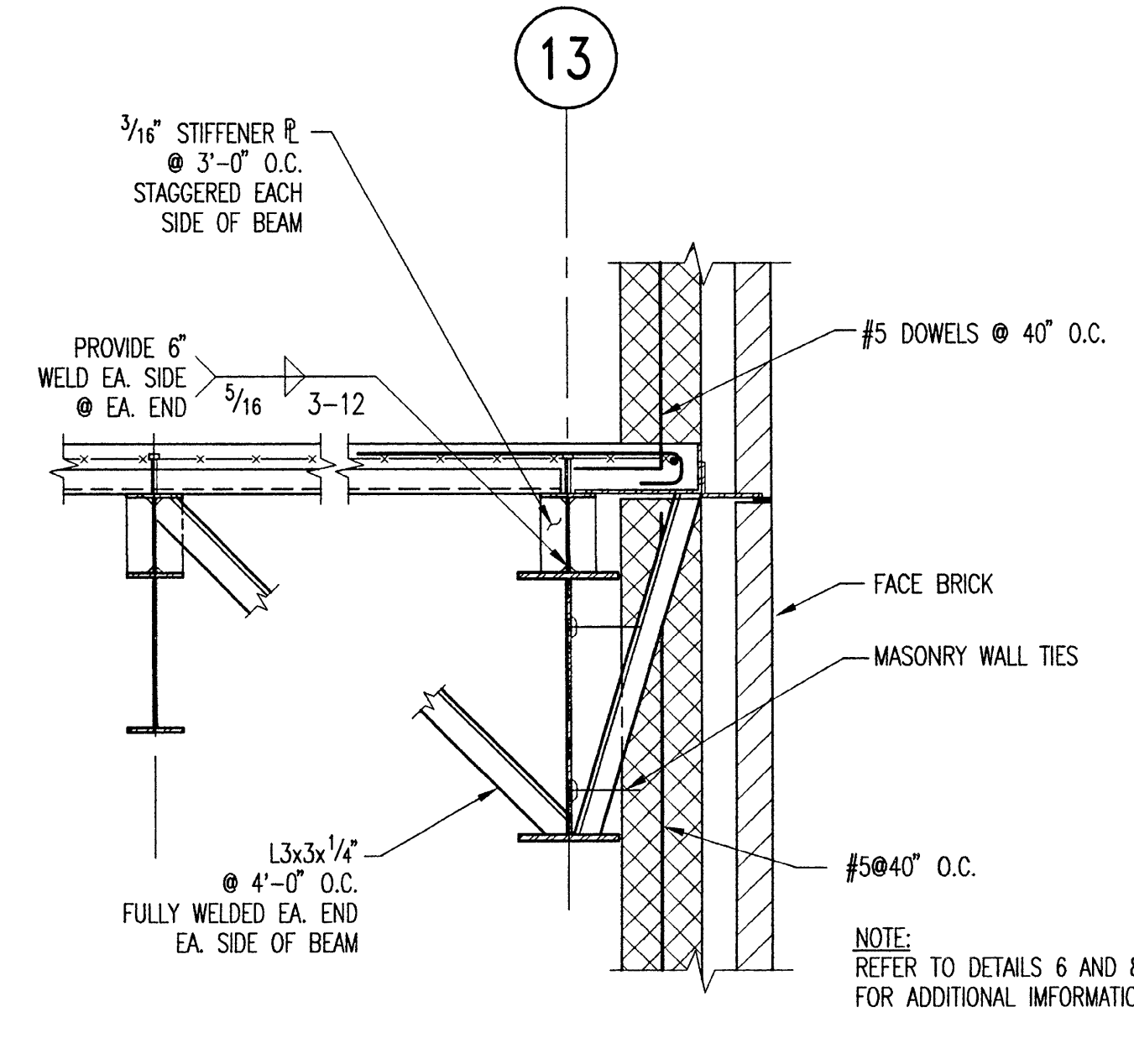
8 BRICK SUPPORT CONNECTION AT FLOOR SLAB



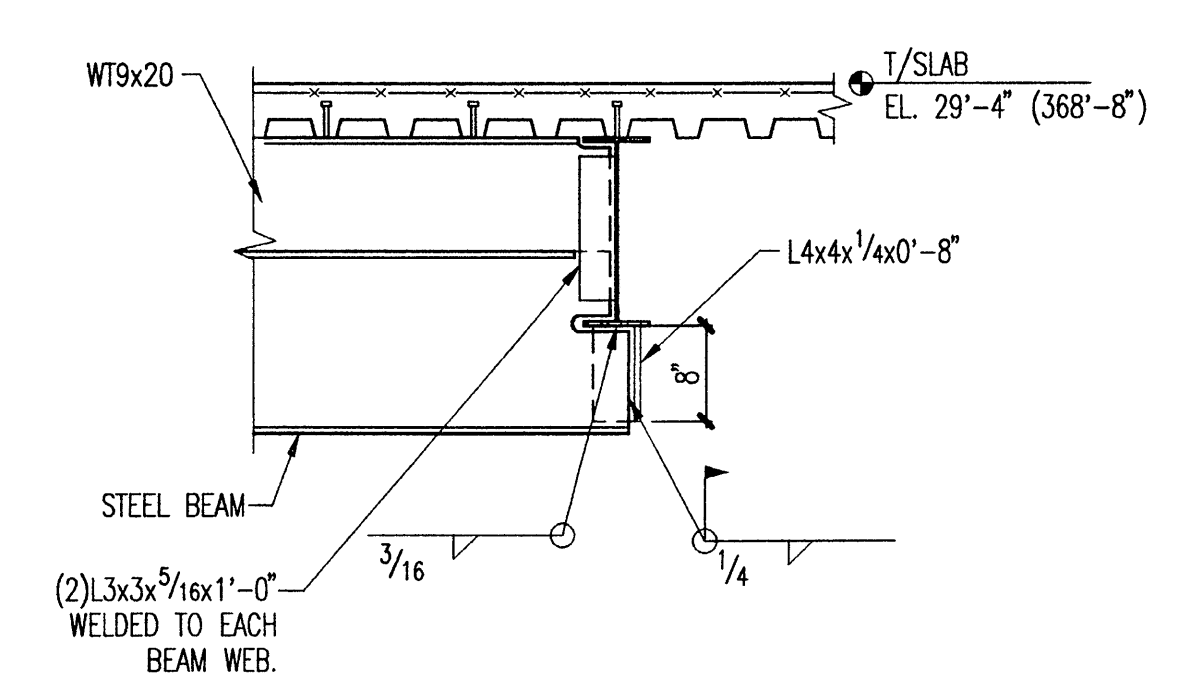
9 PARAPET DETAIL



10 SECTION

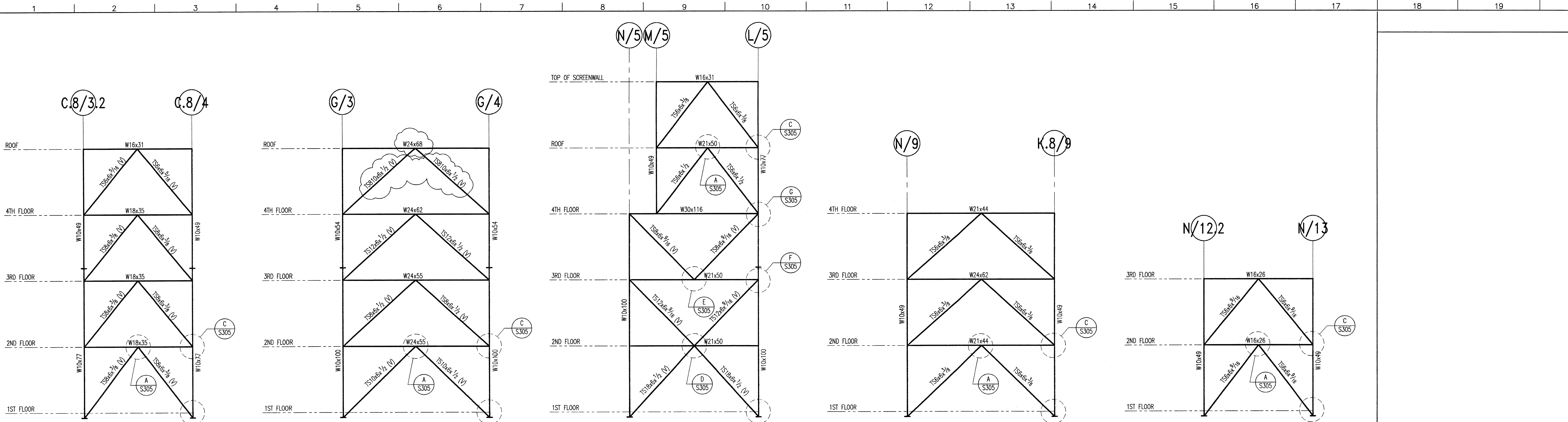


11 SECTION



12 SECTION

Typical Details



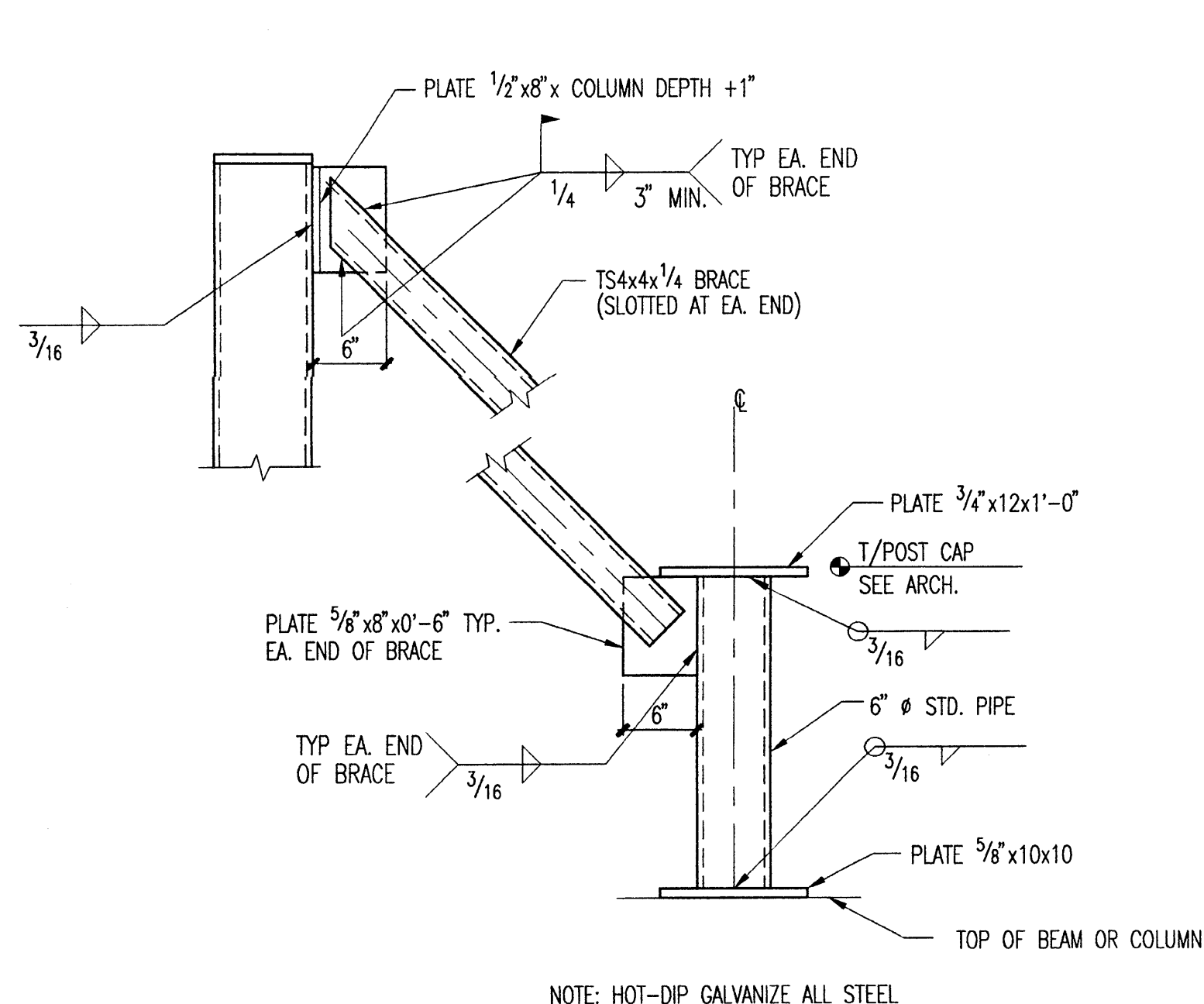
1 BRACED FRAME 1 N.T.S.

2 BRACED FRAME 2 N.T.S.

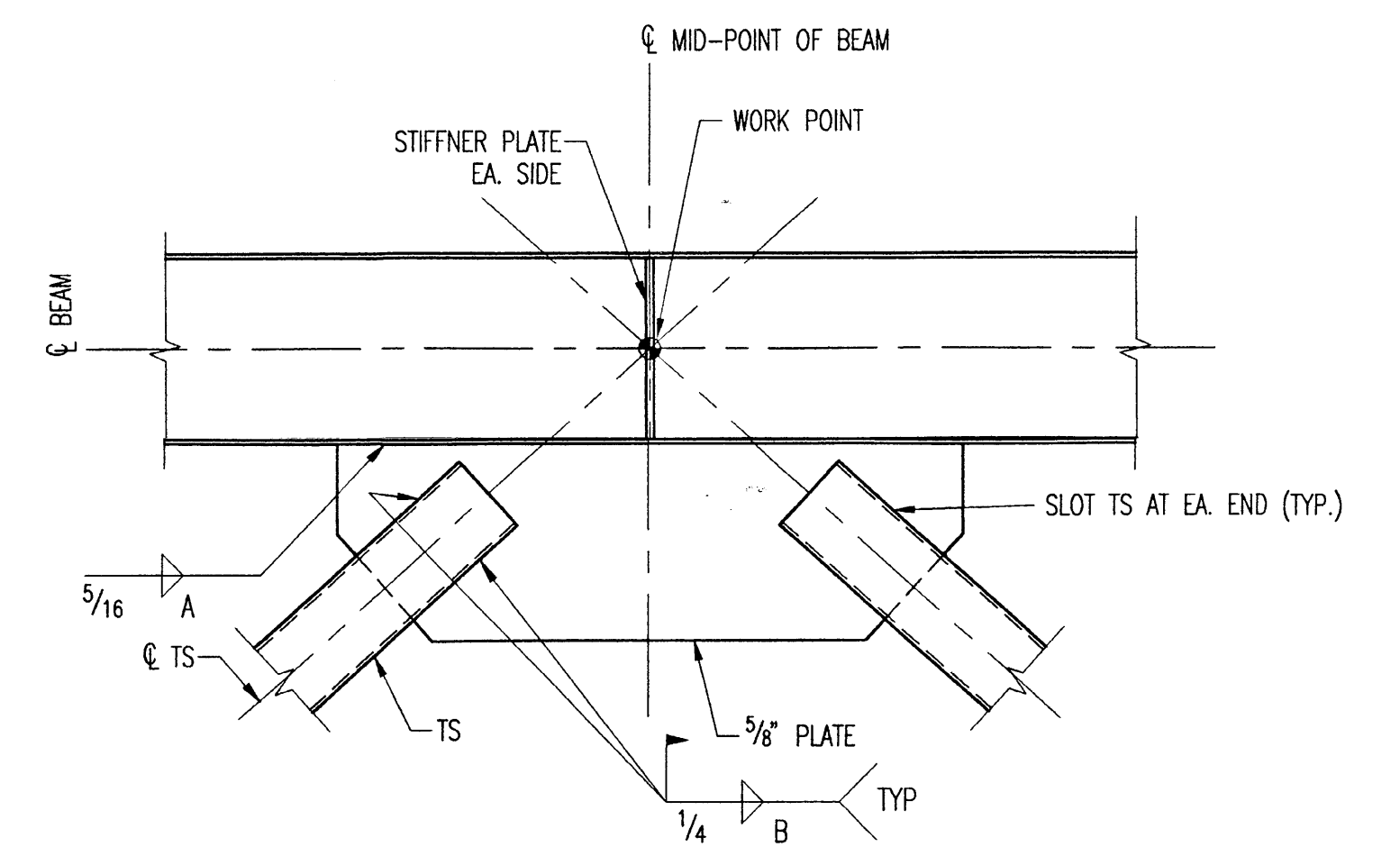
3 BRACED FRAME 3 N.T.S.

4 BRACED FRAME 4 N.T.S.

5 BRACED FRAME 5 N.T.S.

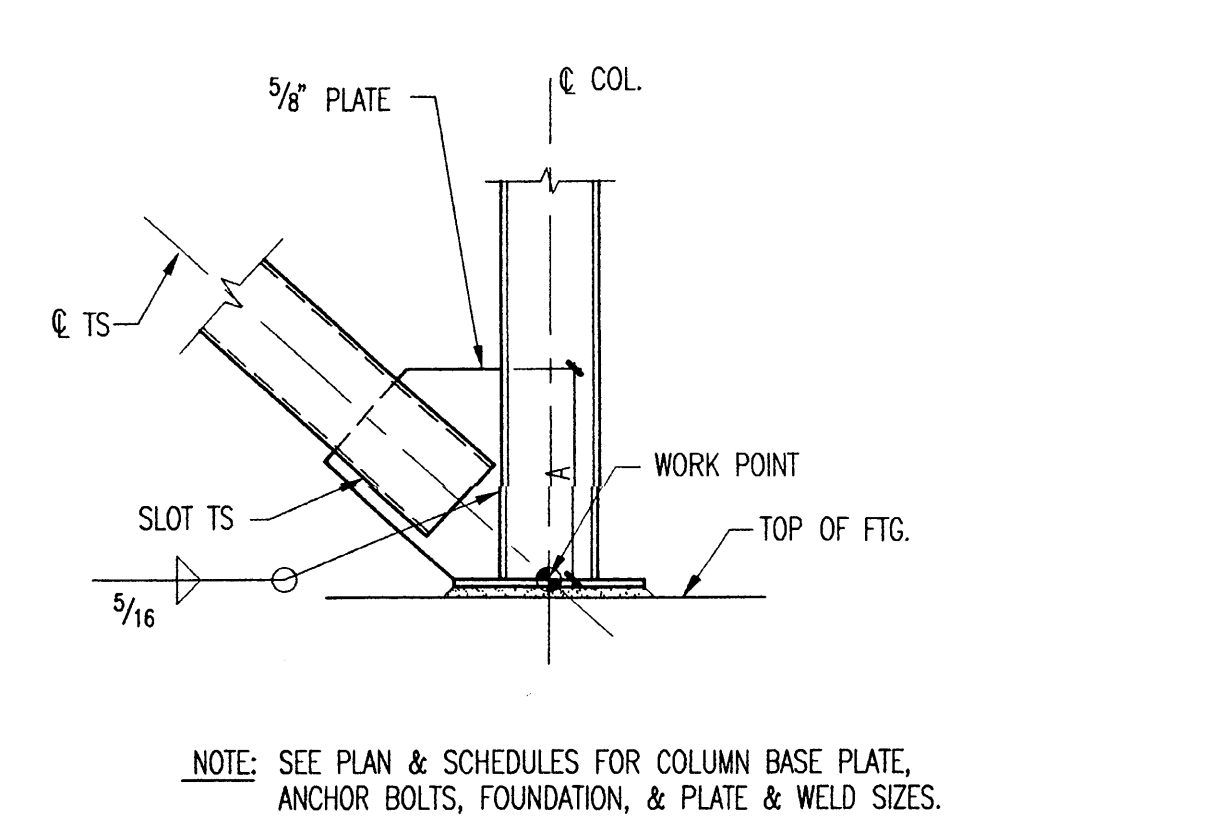


6 ROOF SCREEN BRACE 1"=1'-0"



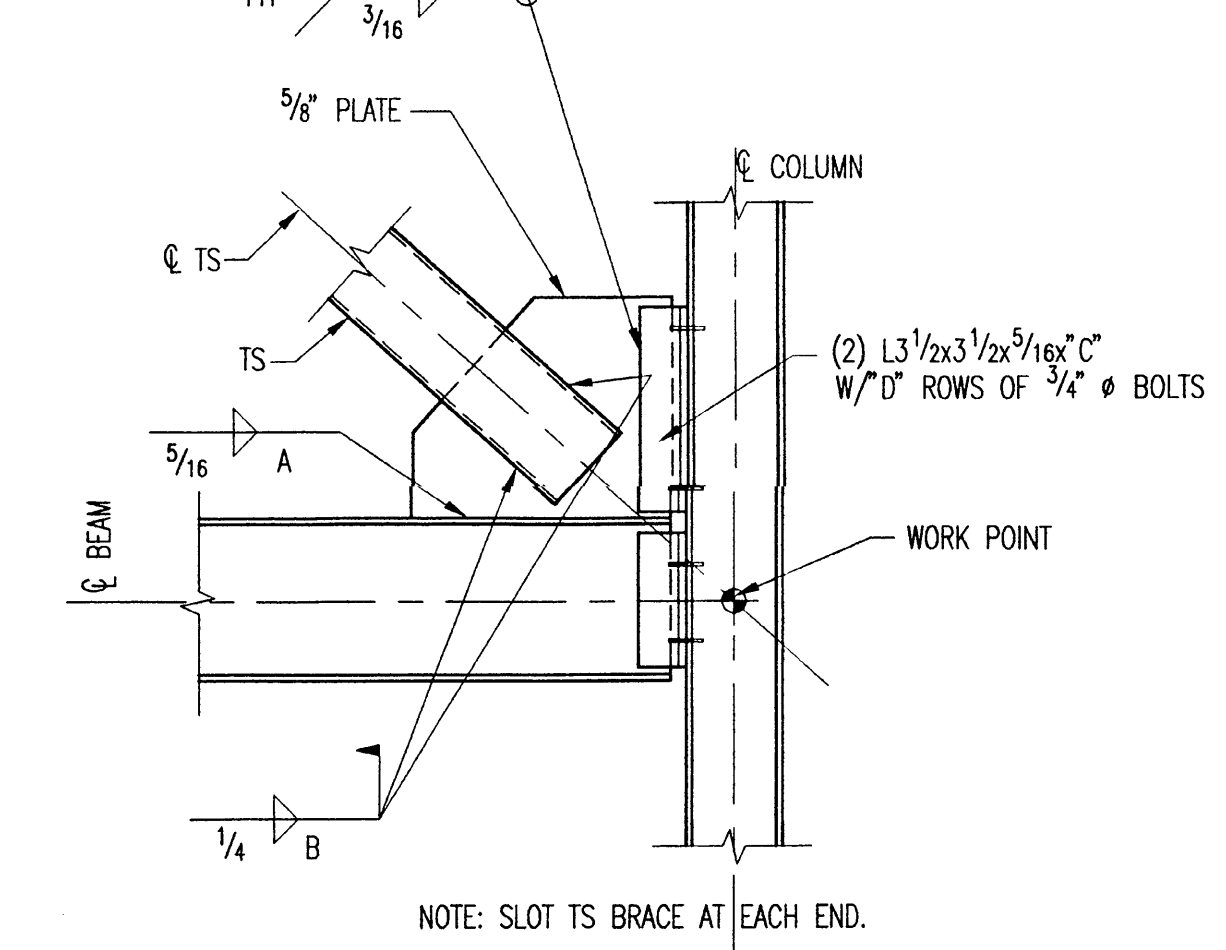
FRAME	A	B
1	24"	8"
2	36"	12"
3	24"	8"
4	24"	8"
5	36"	12"

A K-BRACING CONNECTION (TS DIAGONALS)



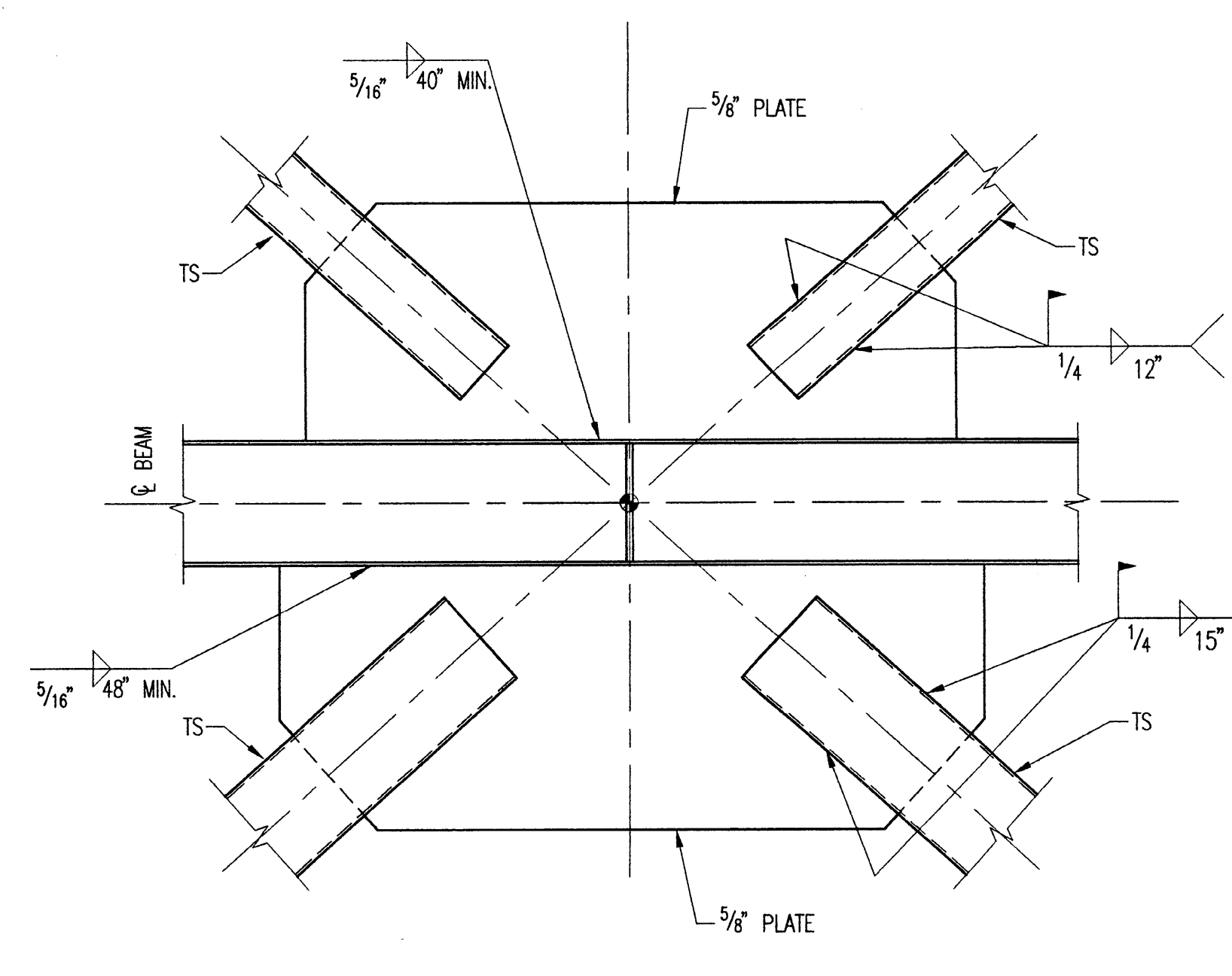
FRAME	A
1	12"
2	16"
3	24"
4	12"
5	16"

B FOUNDATION K-BRACING CONNECTION (TS DIAGONALS)

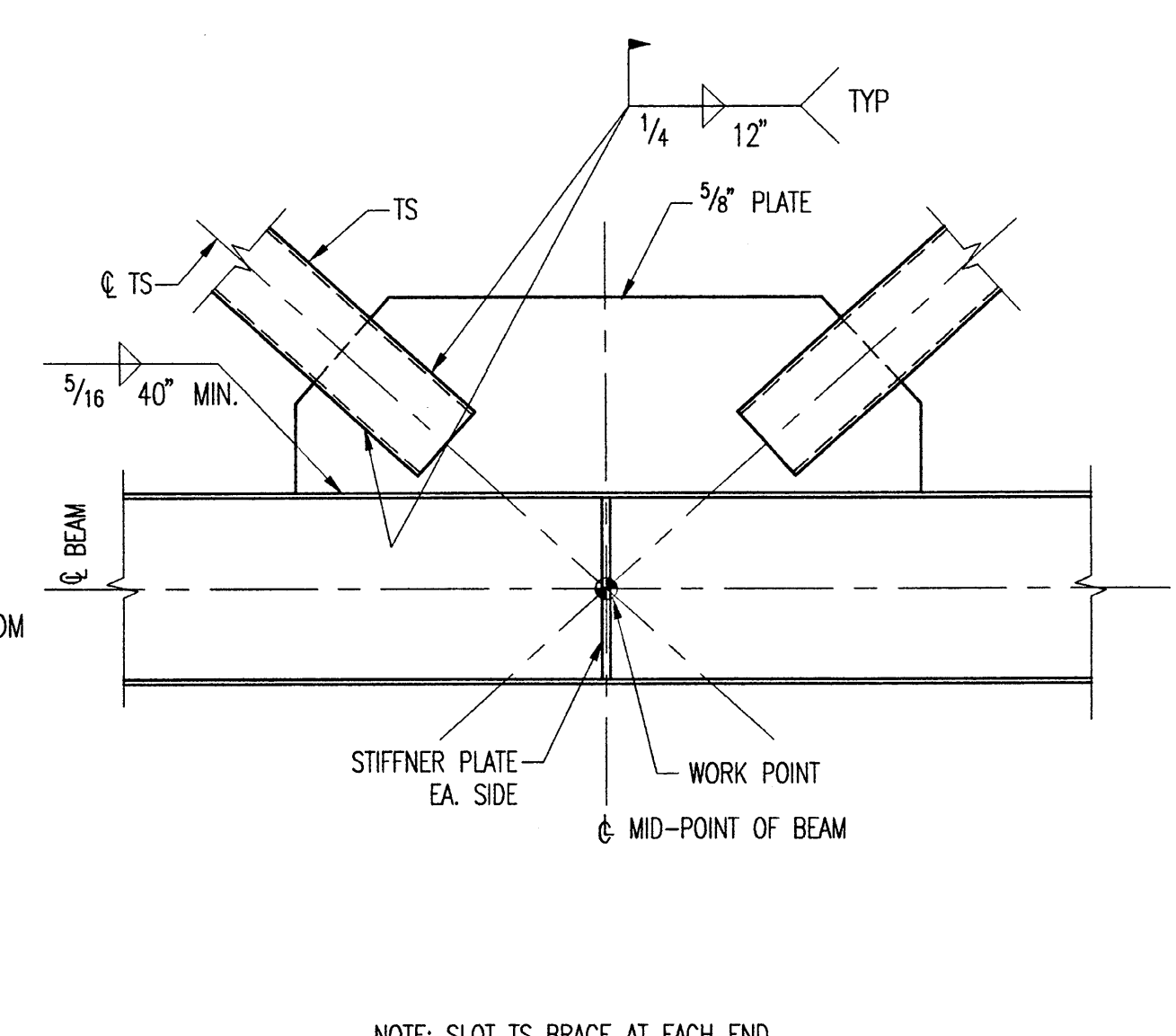


FRAME	A	B	C	D
1	12"	8"	11 1/2"	4
2	20"	12"	17 1/2"	6
3	14"	8"	11 1/2"	4
4	12"	8"	8 1/2"	3
5	20"	12"	17 1/2"	6

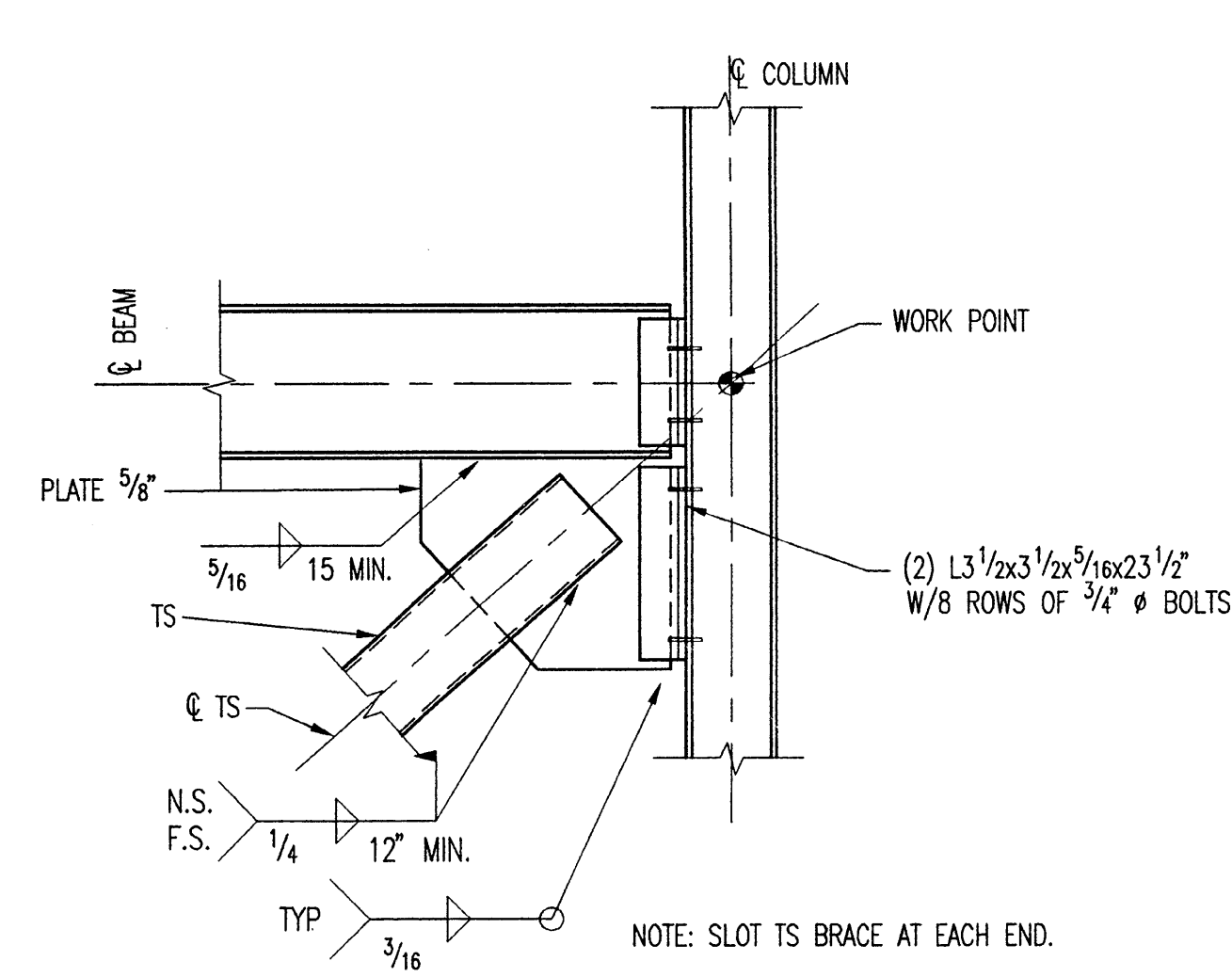
C CONNECTION AT MID-LEVEL (TS DIAGONALS)



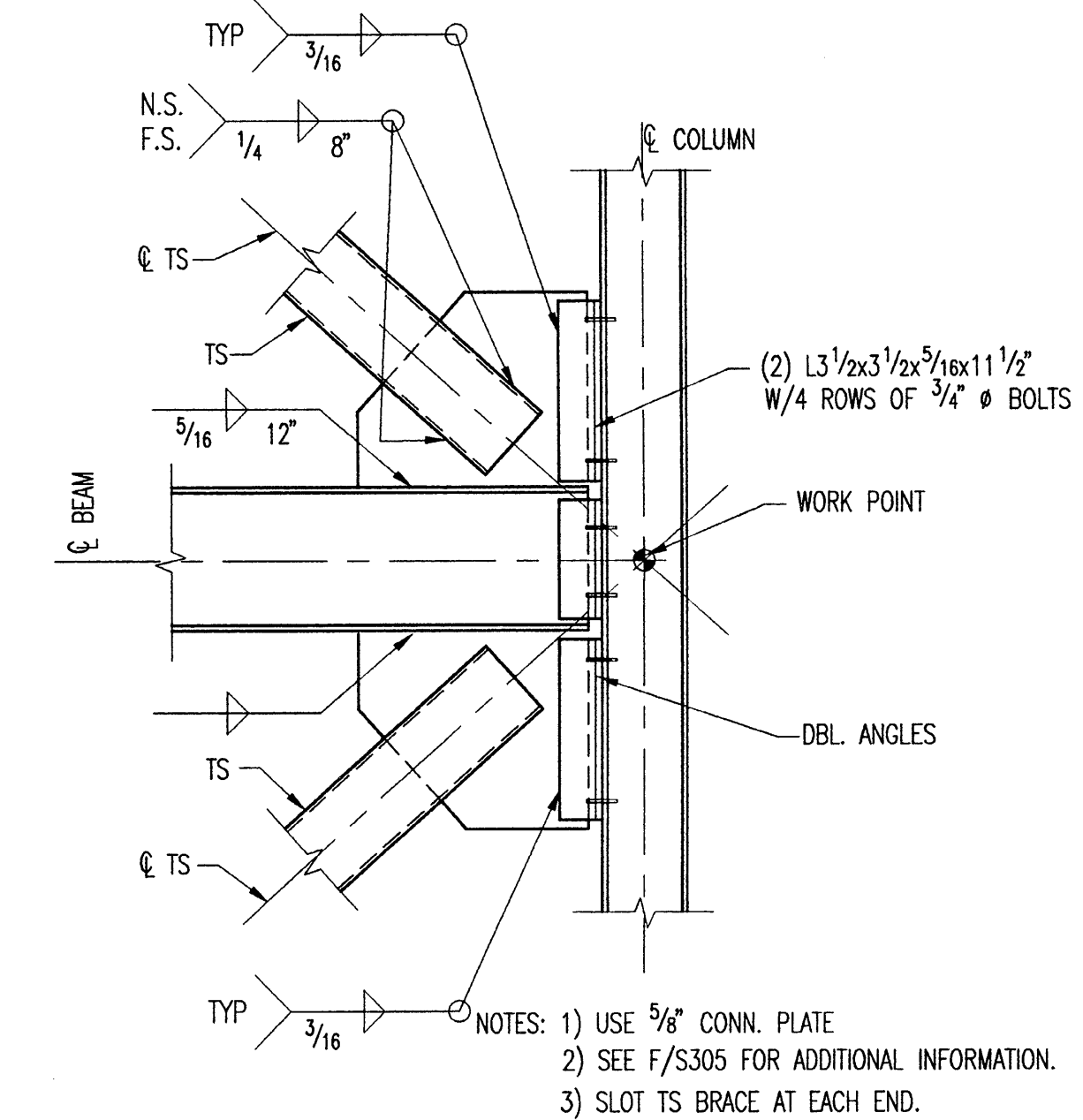
D CONNECTION AT MID-LEVEL (TS DIAGONALS)



E K-BRACING CONNECTION (TS DIAGONALS)

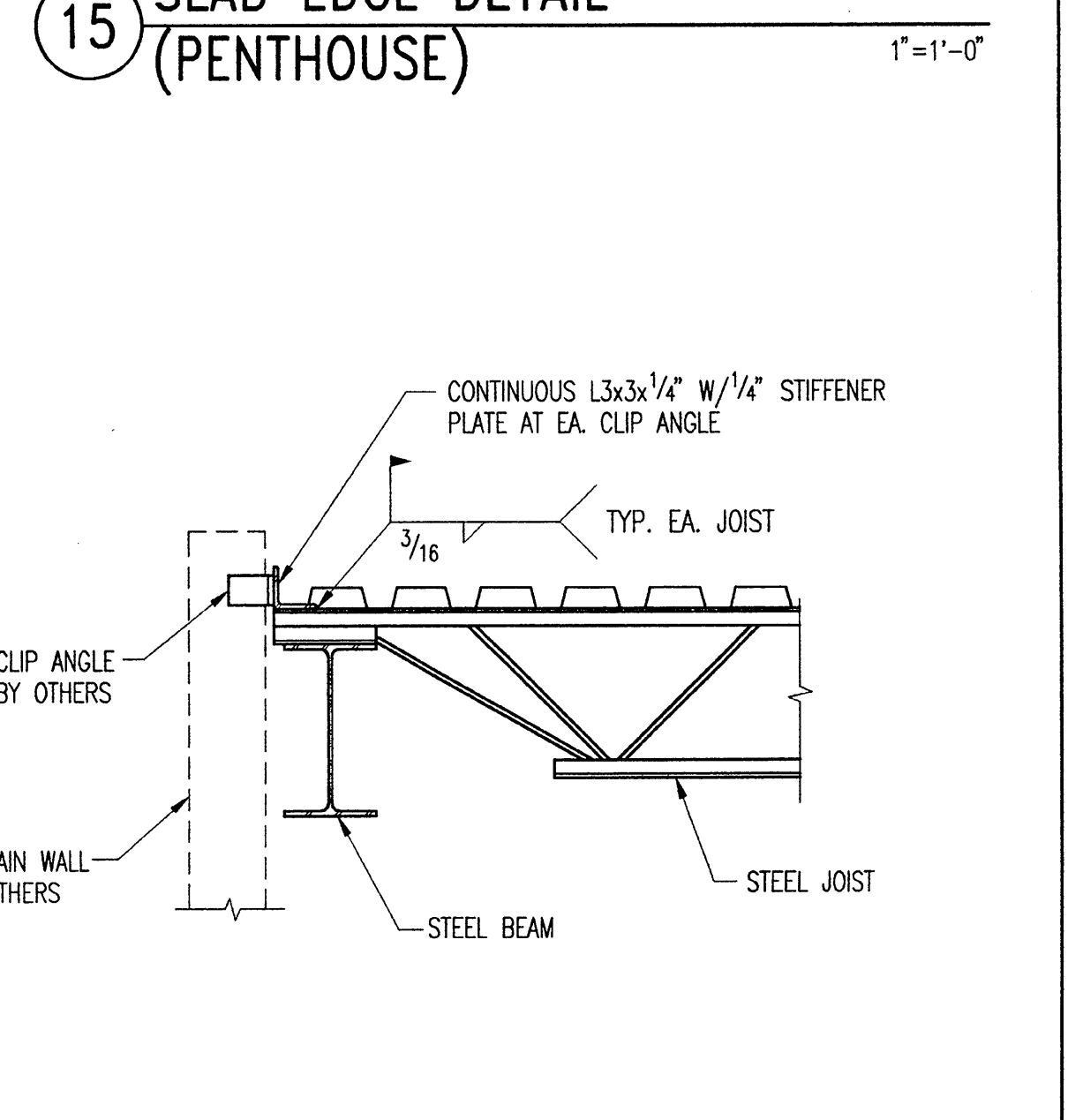
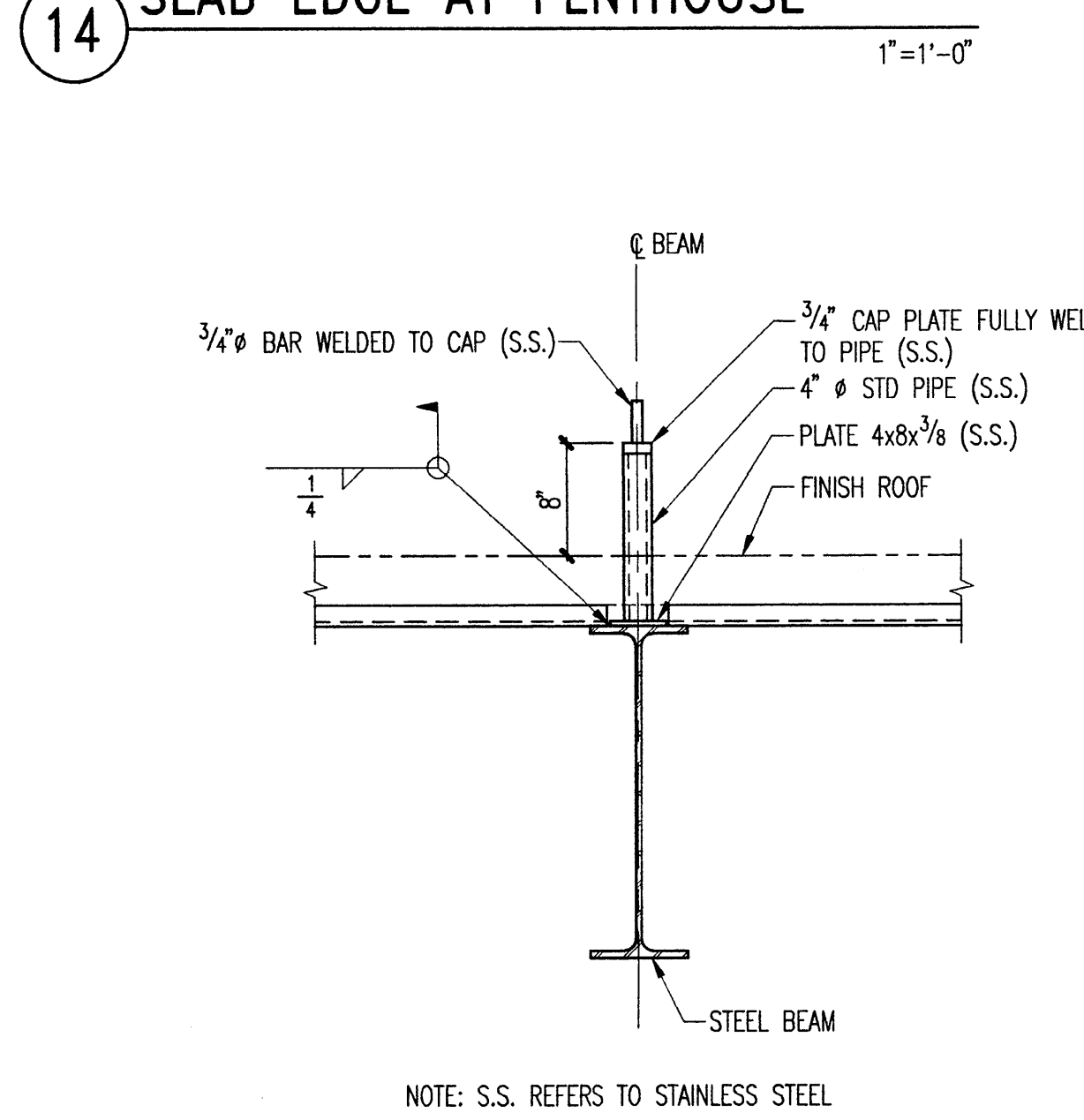
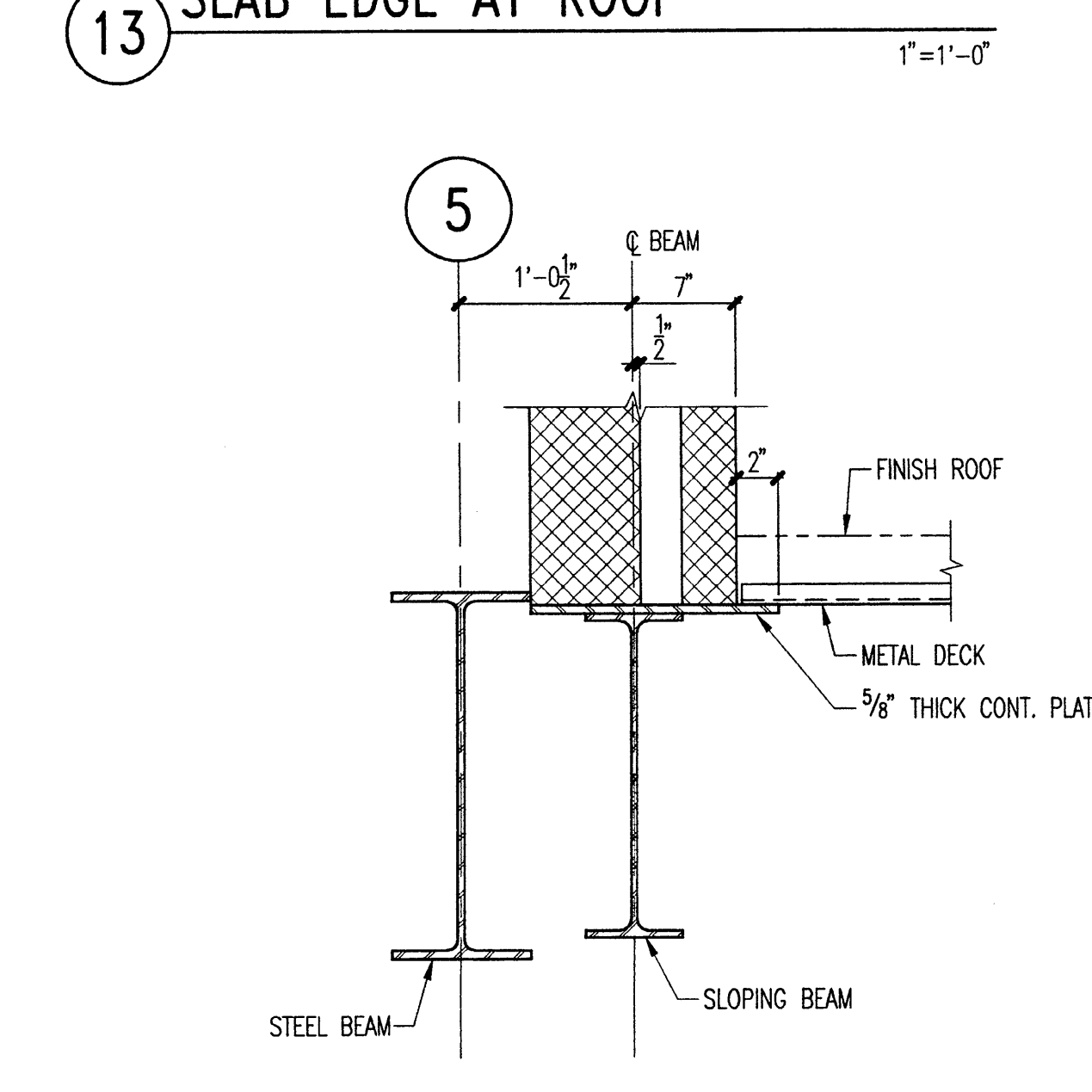
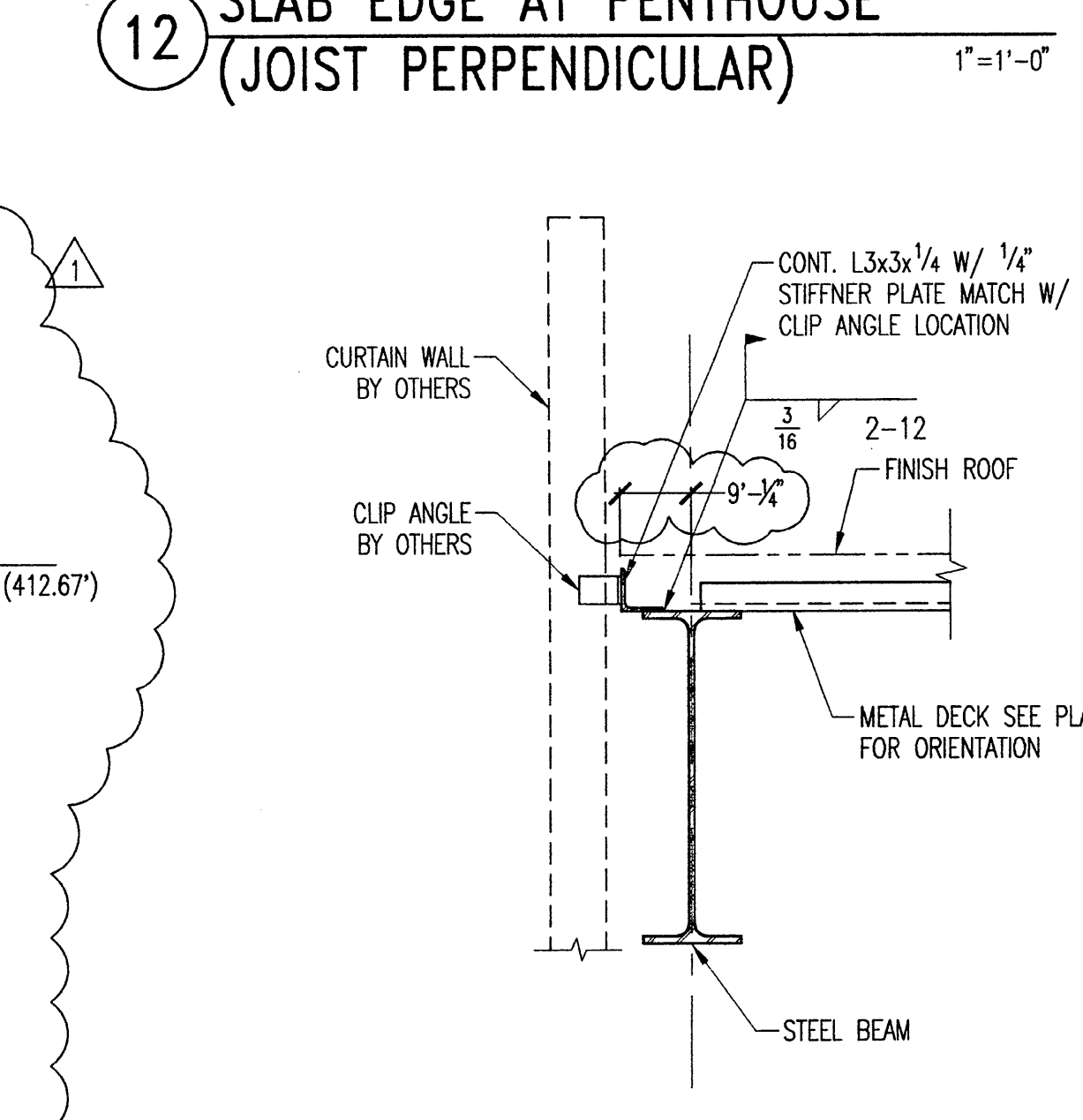
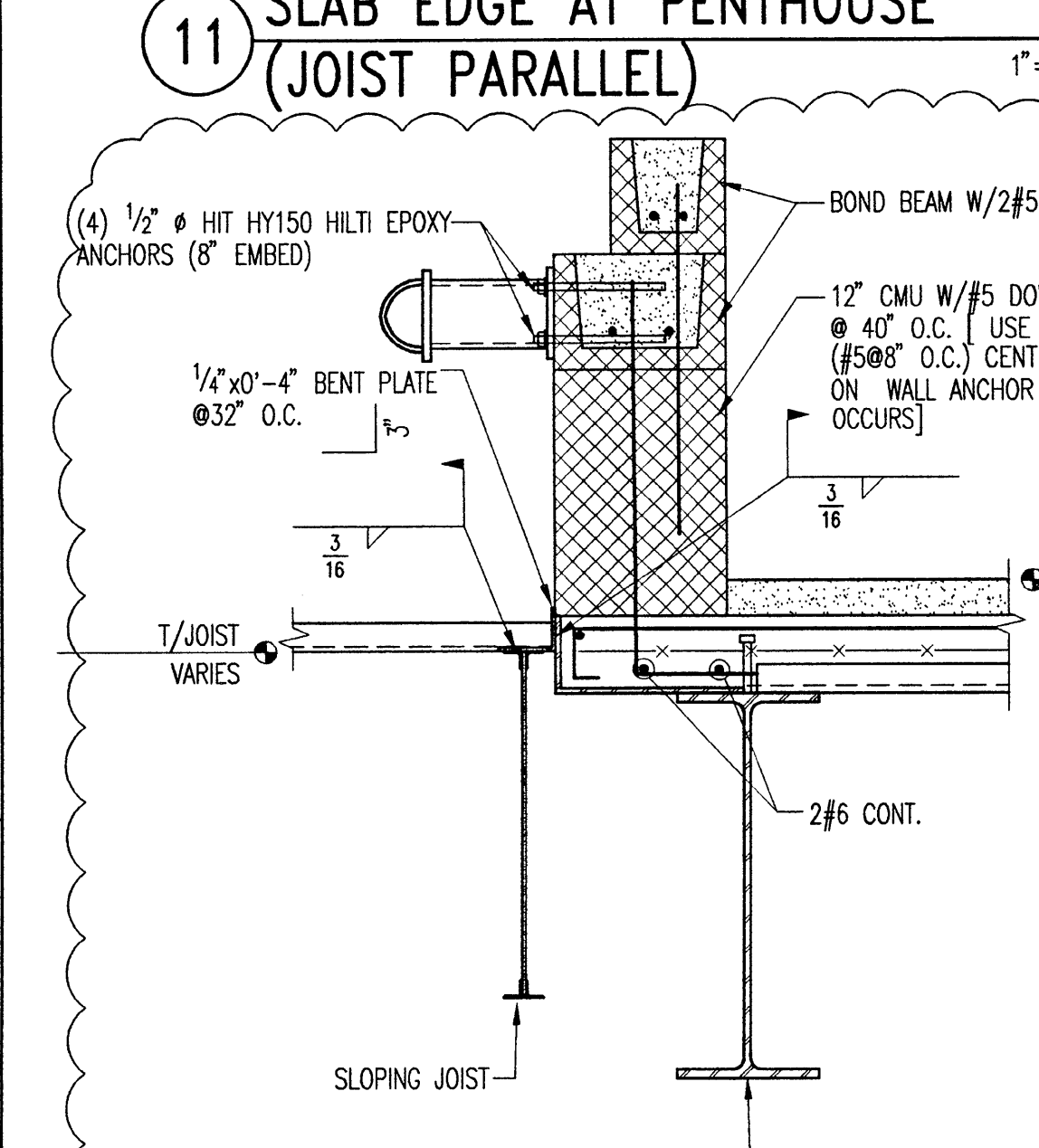
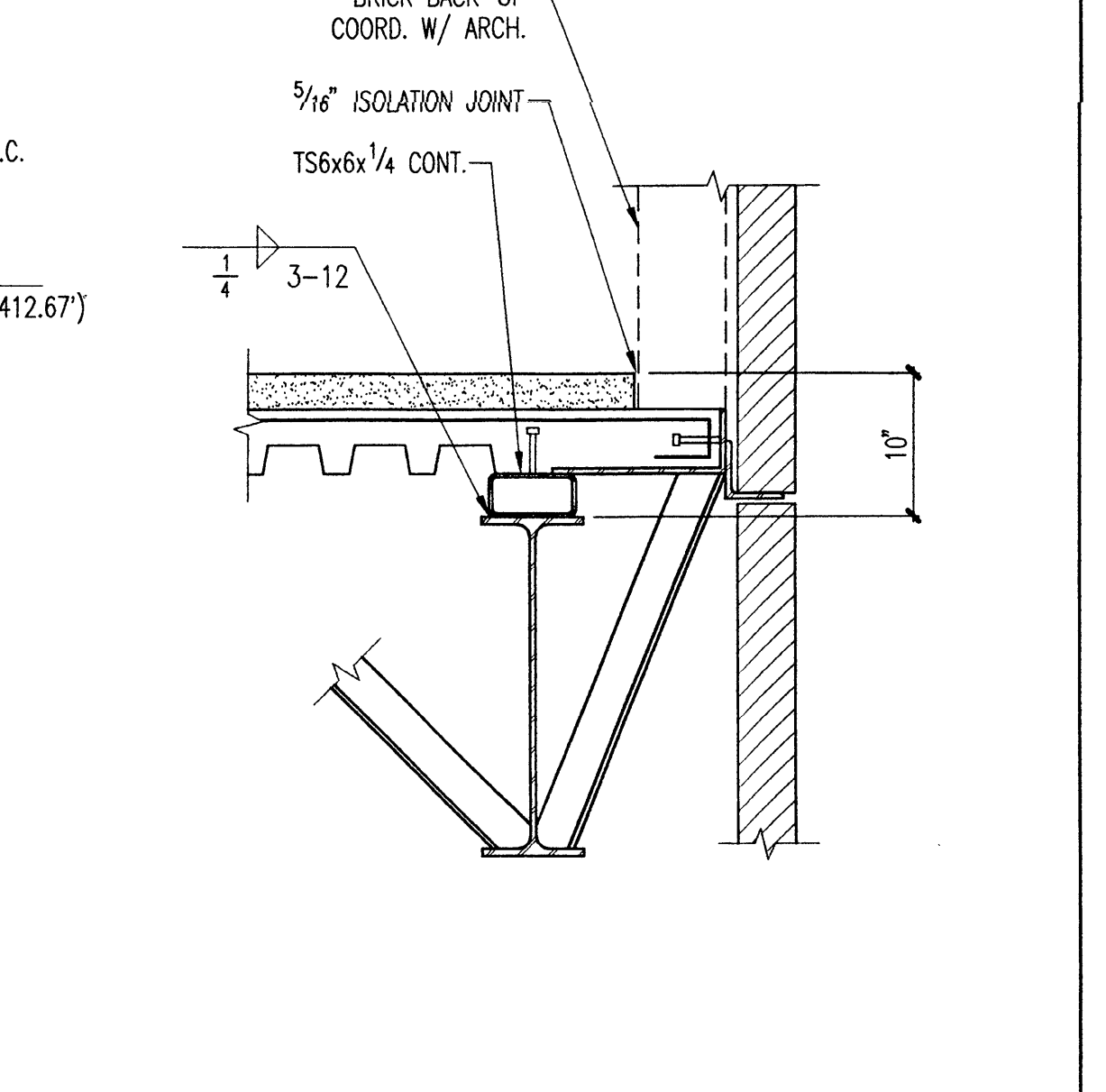
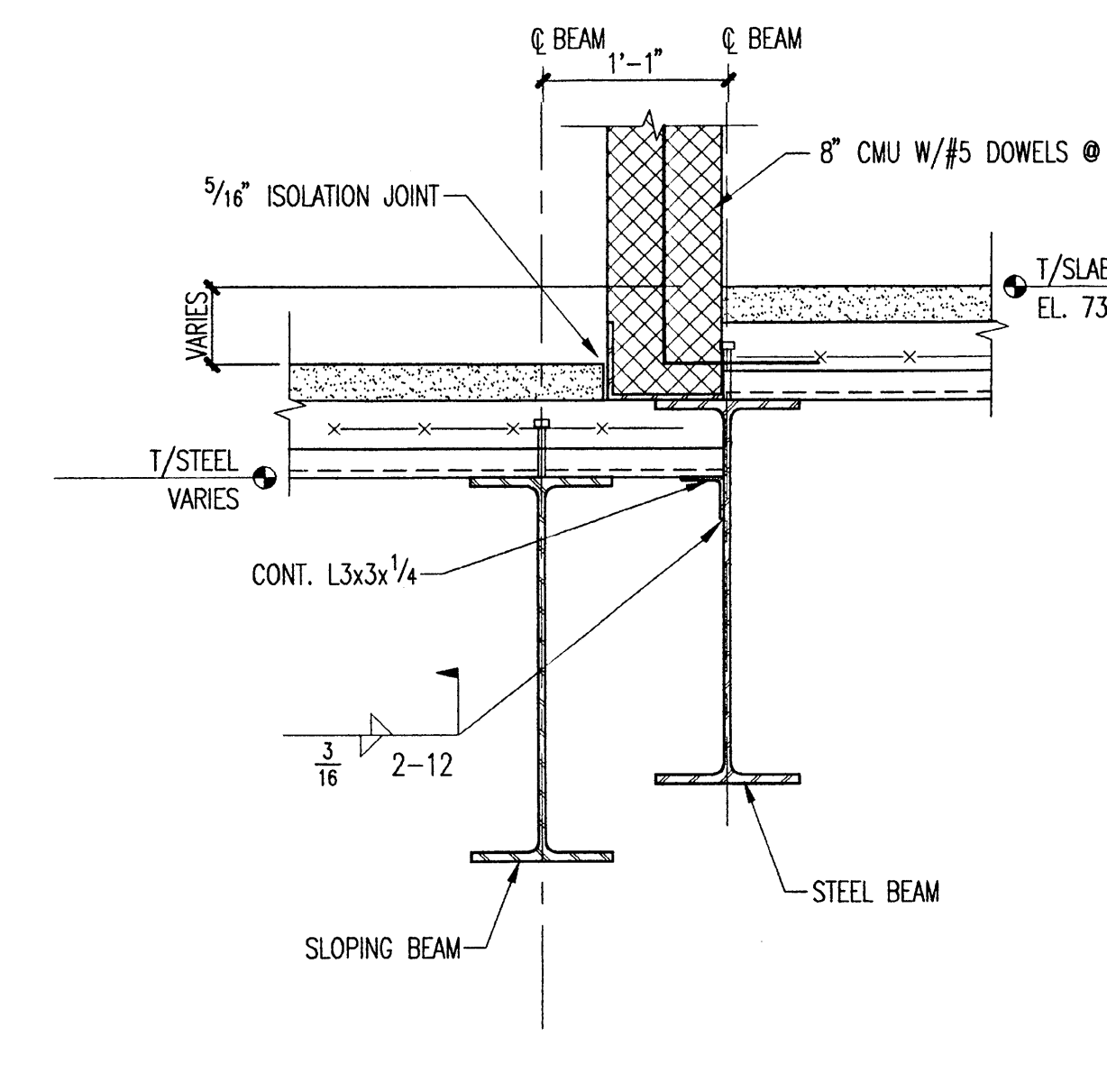
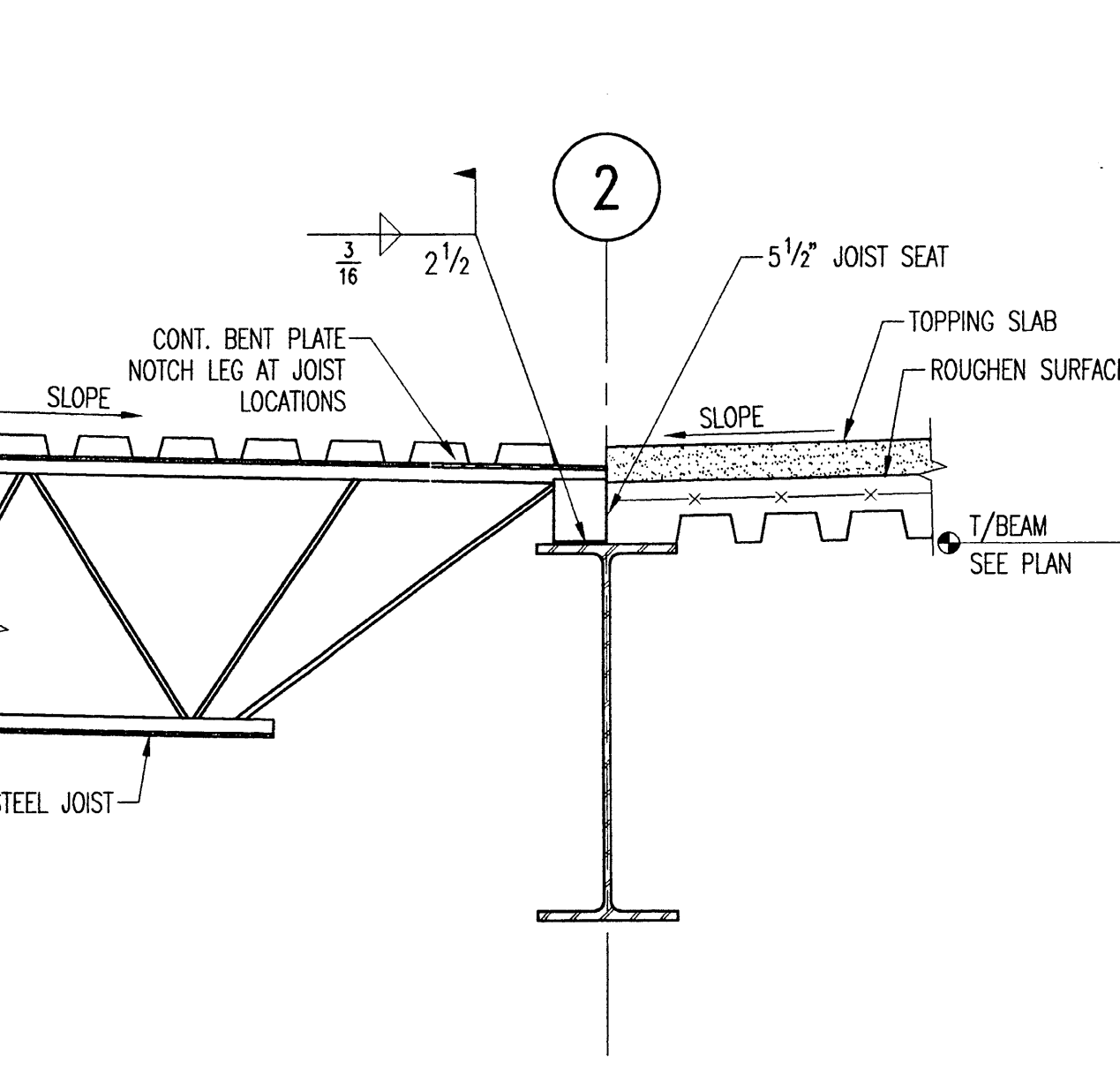
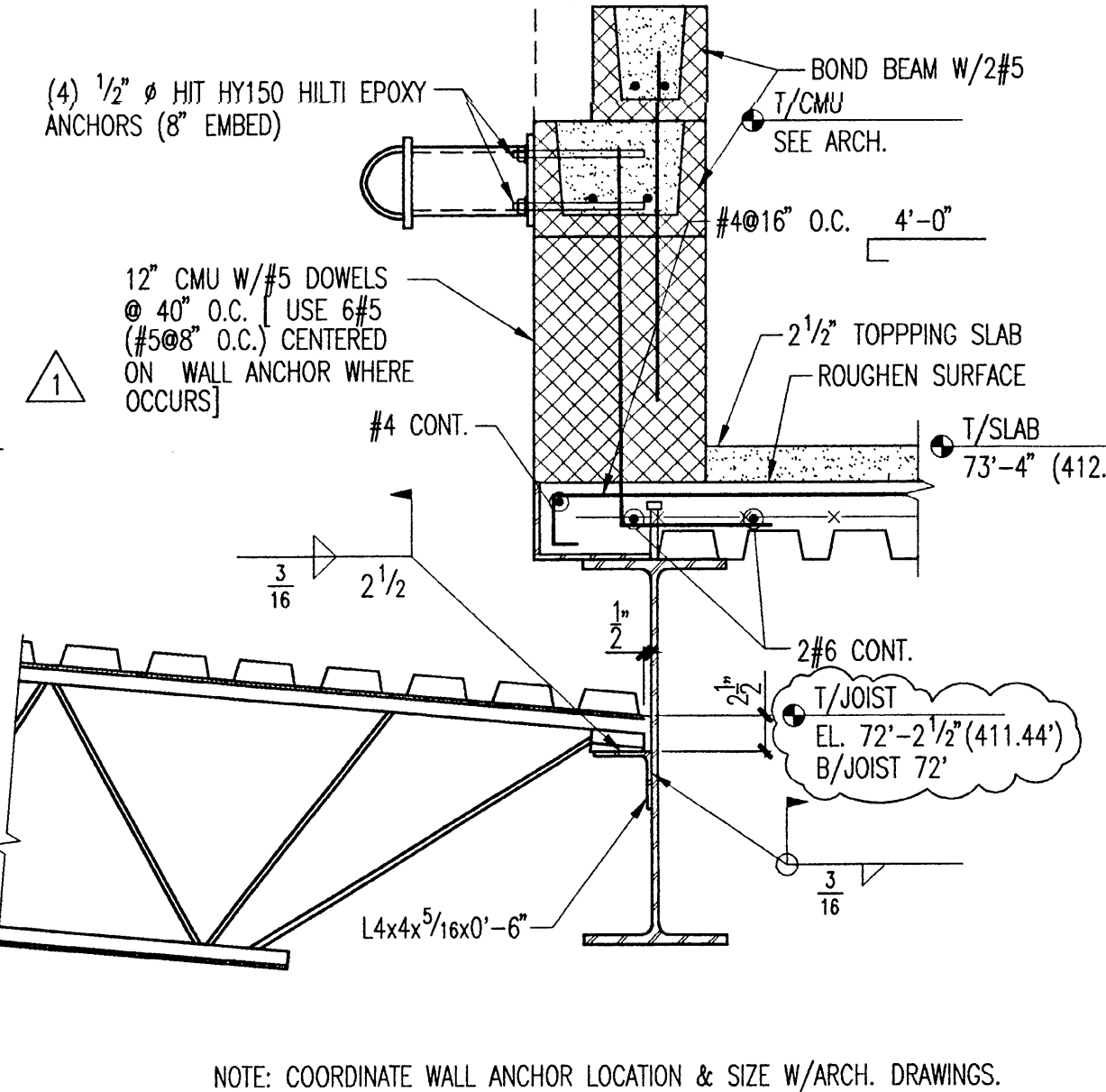
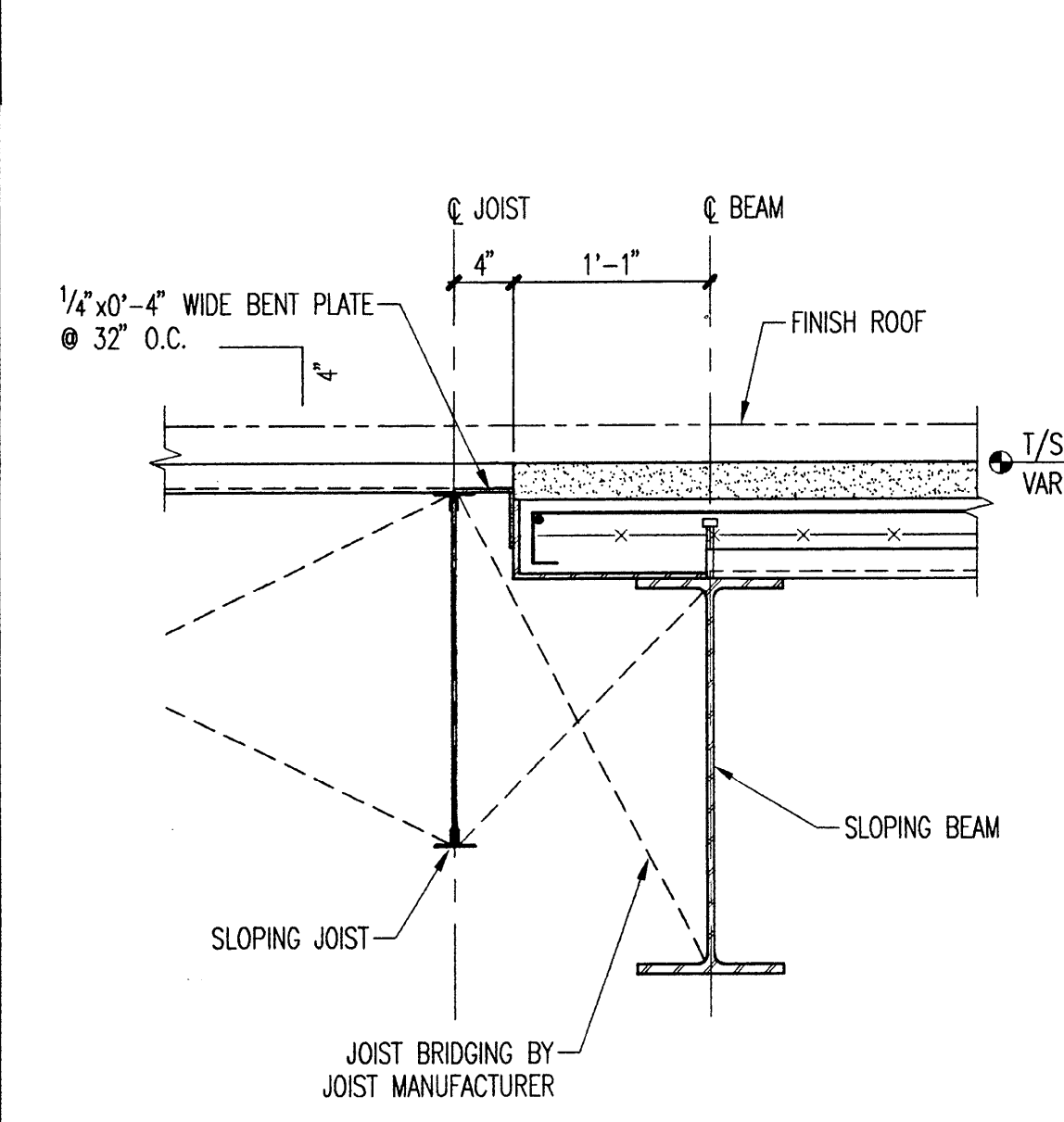
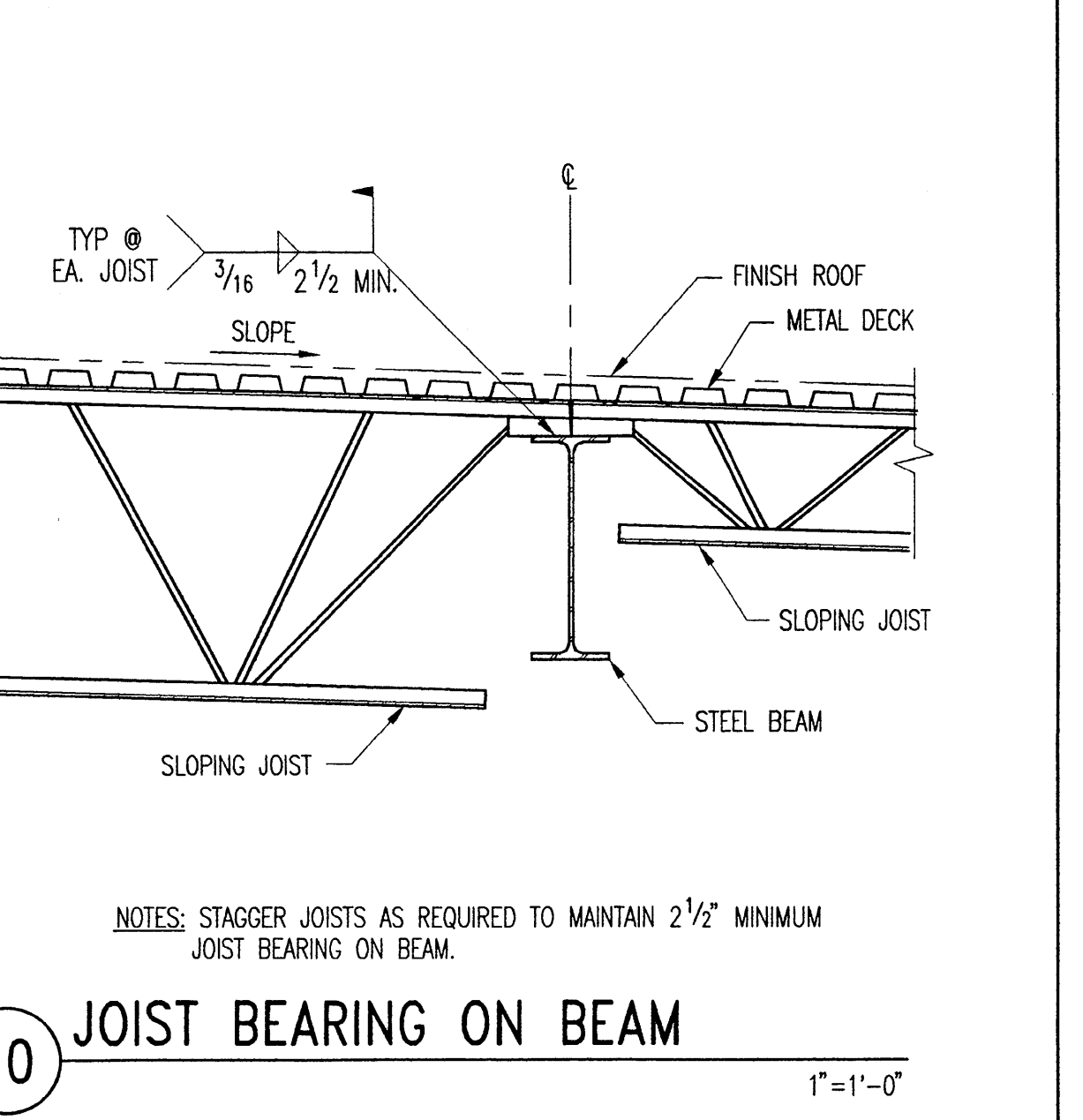
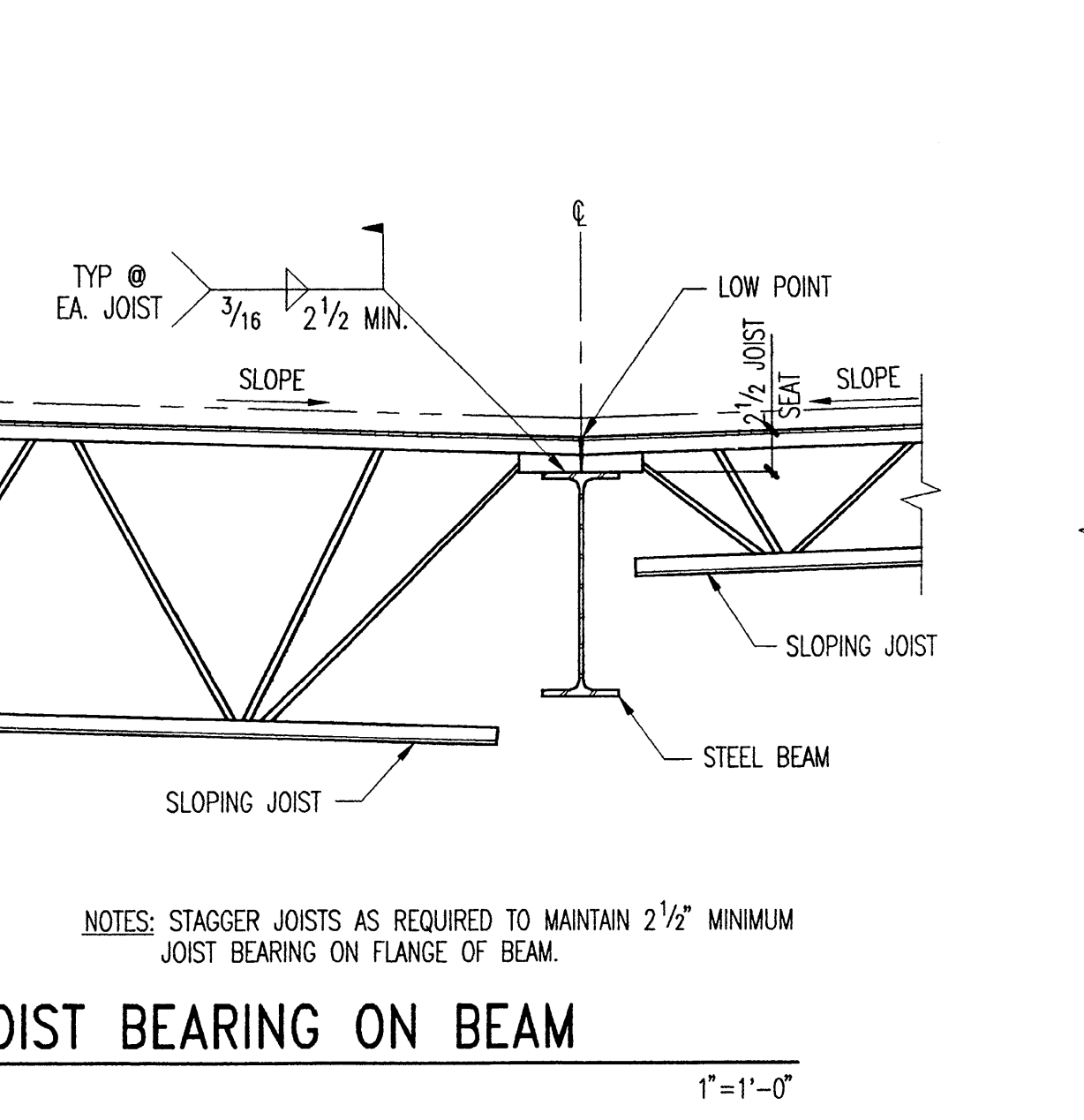
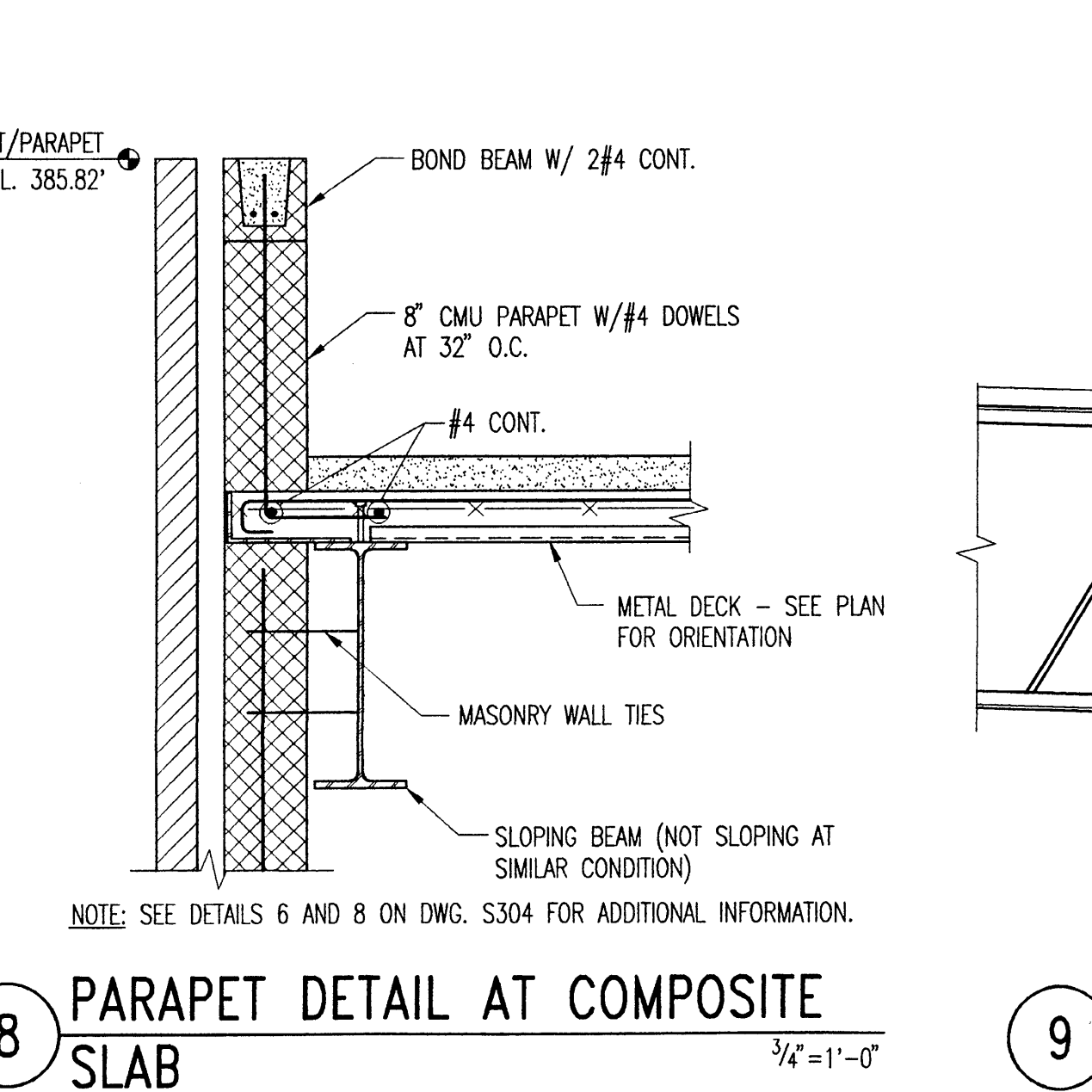
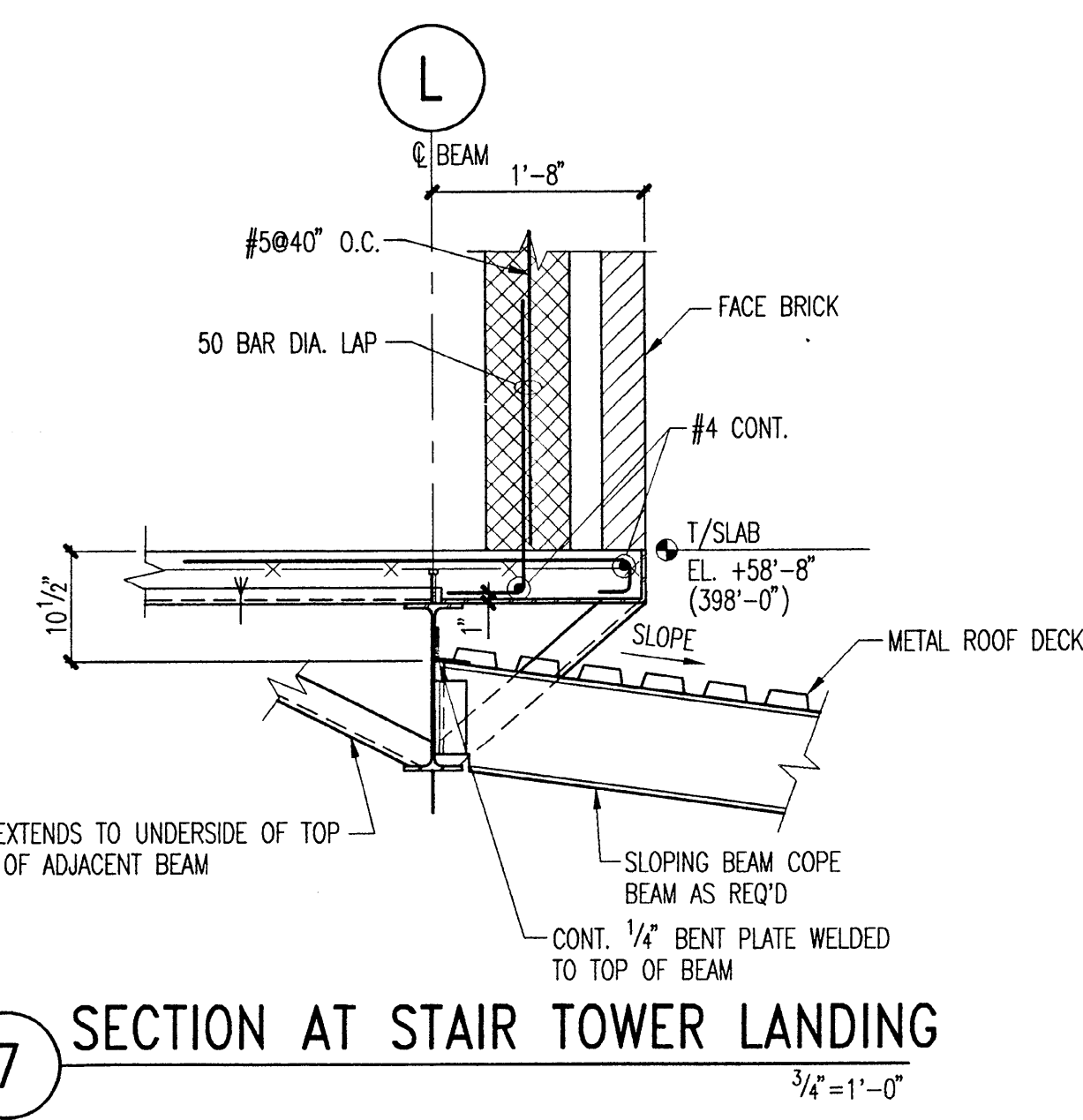
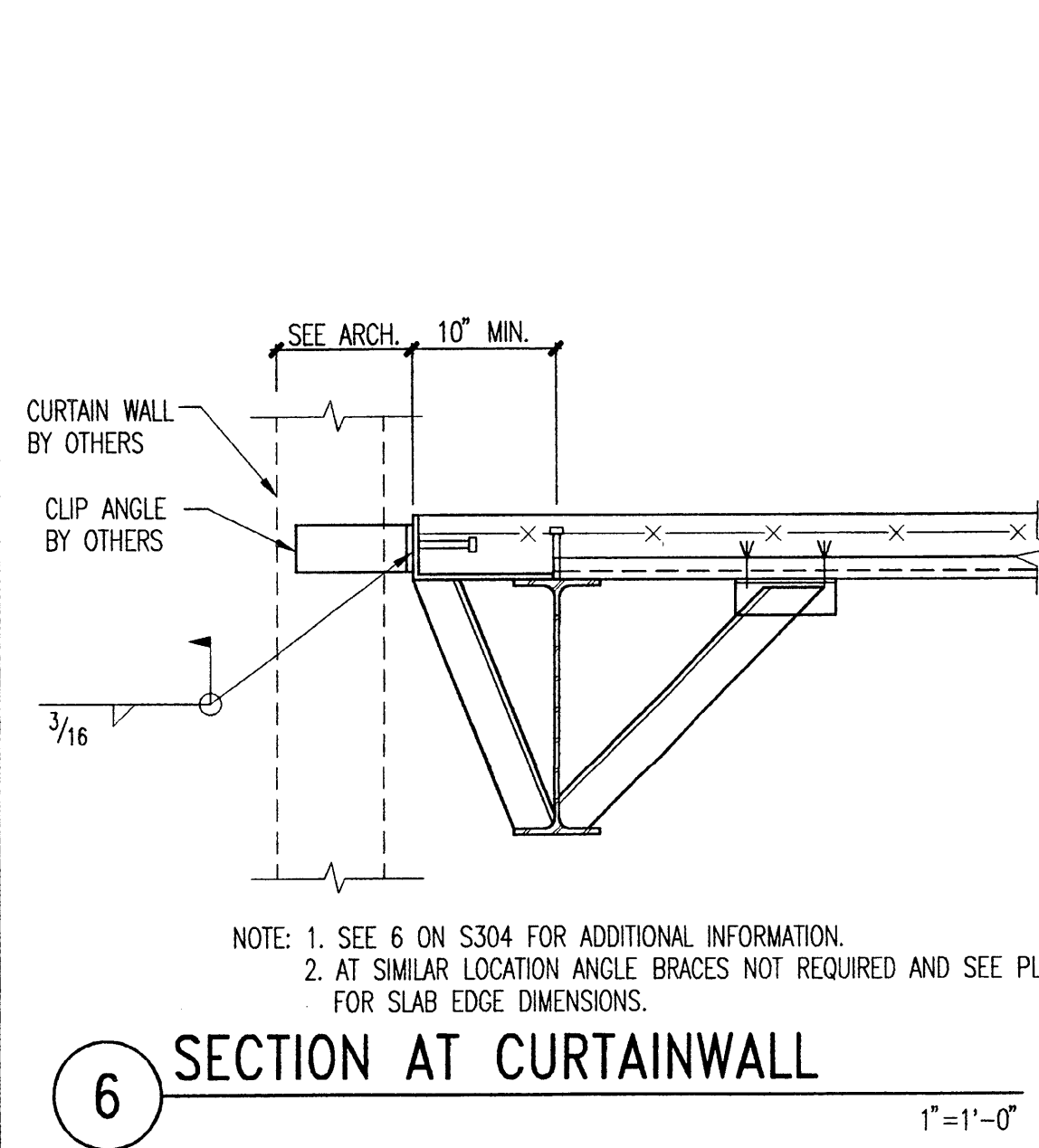
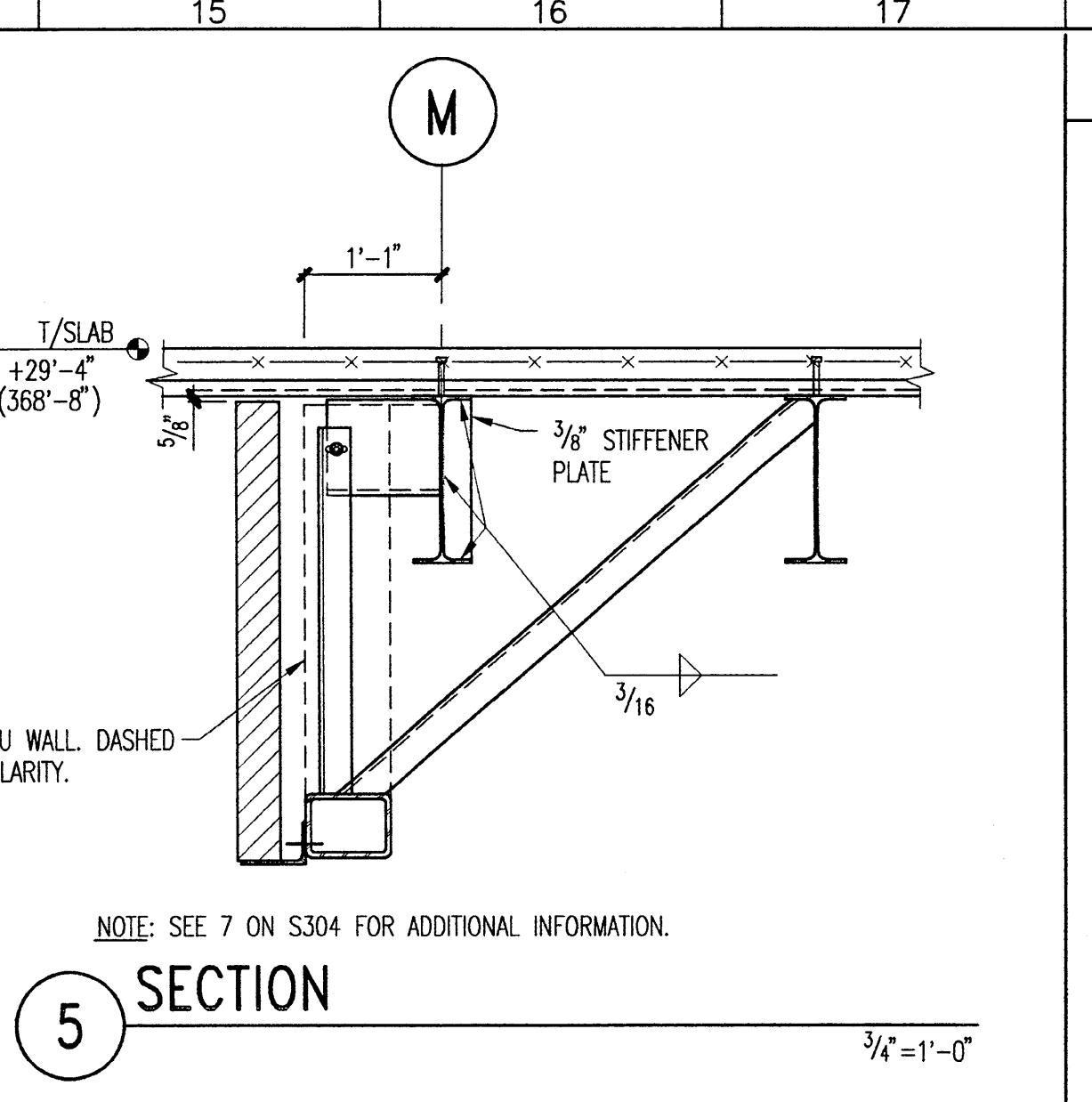
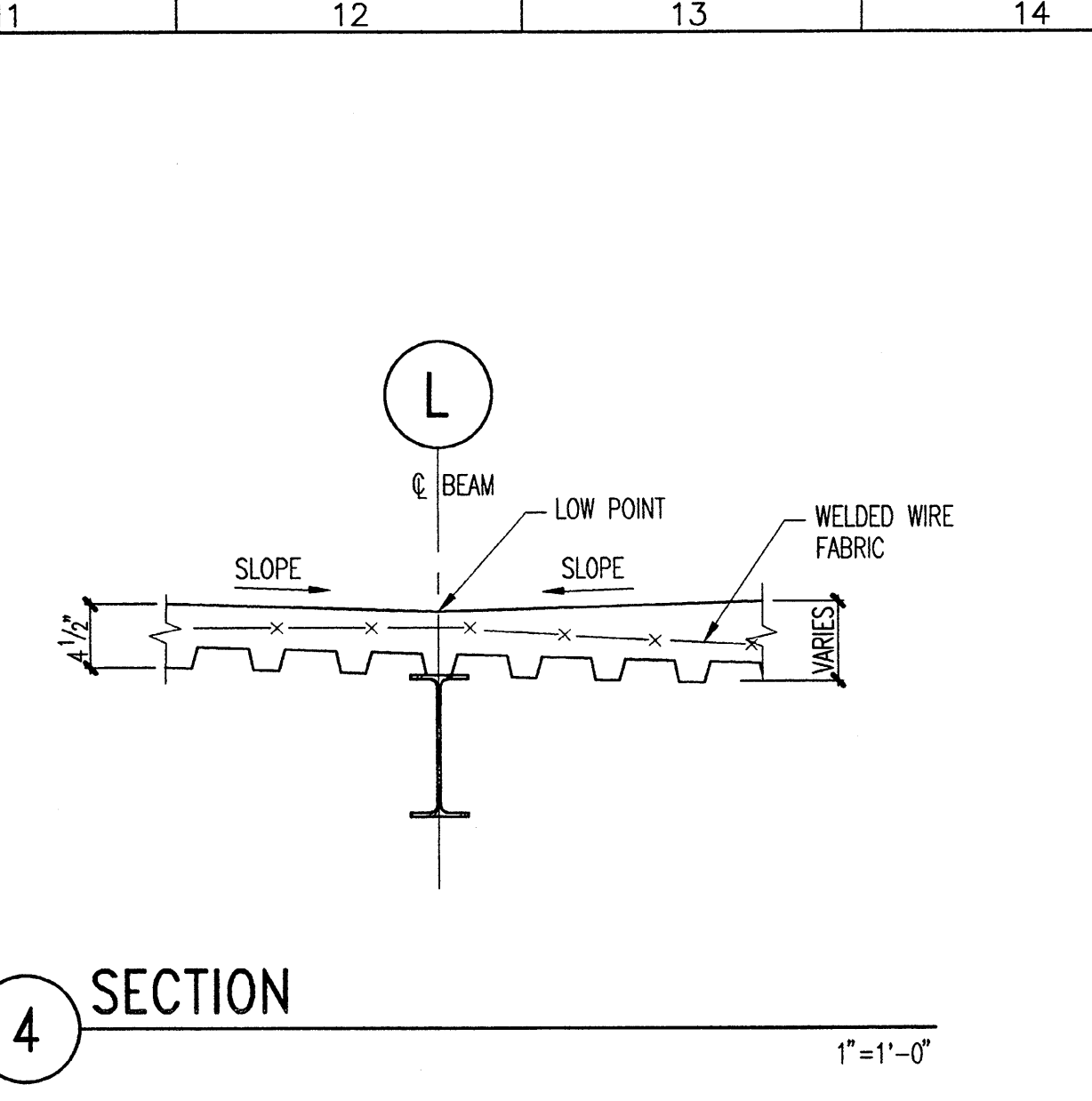
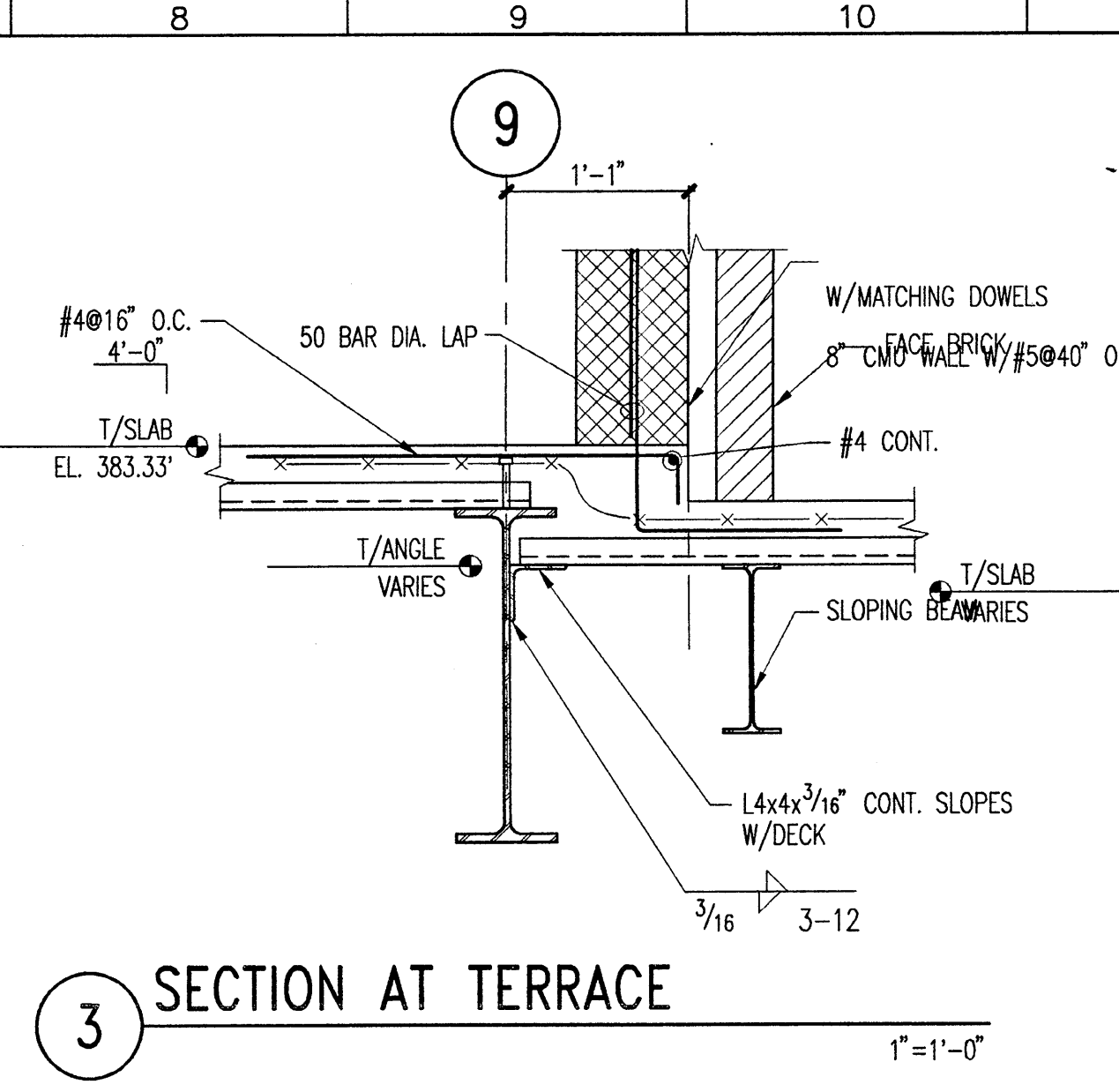
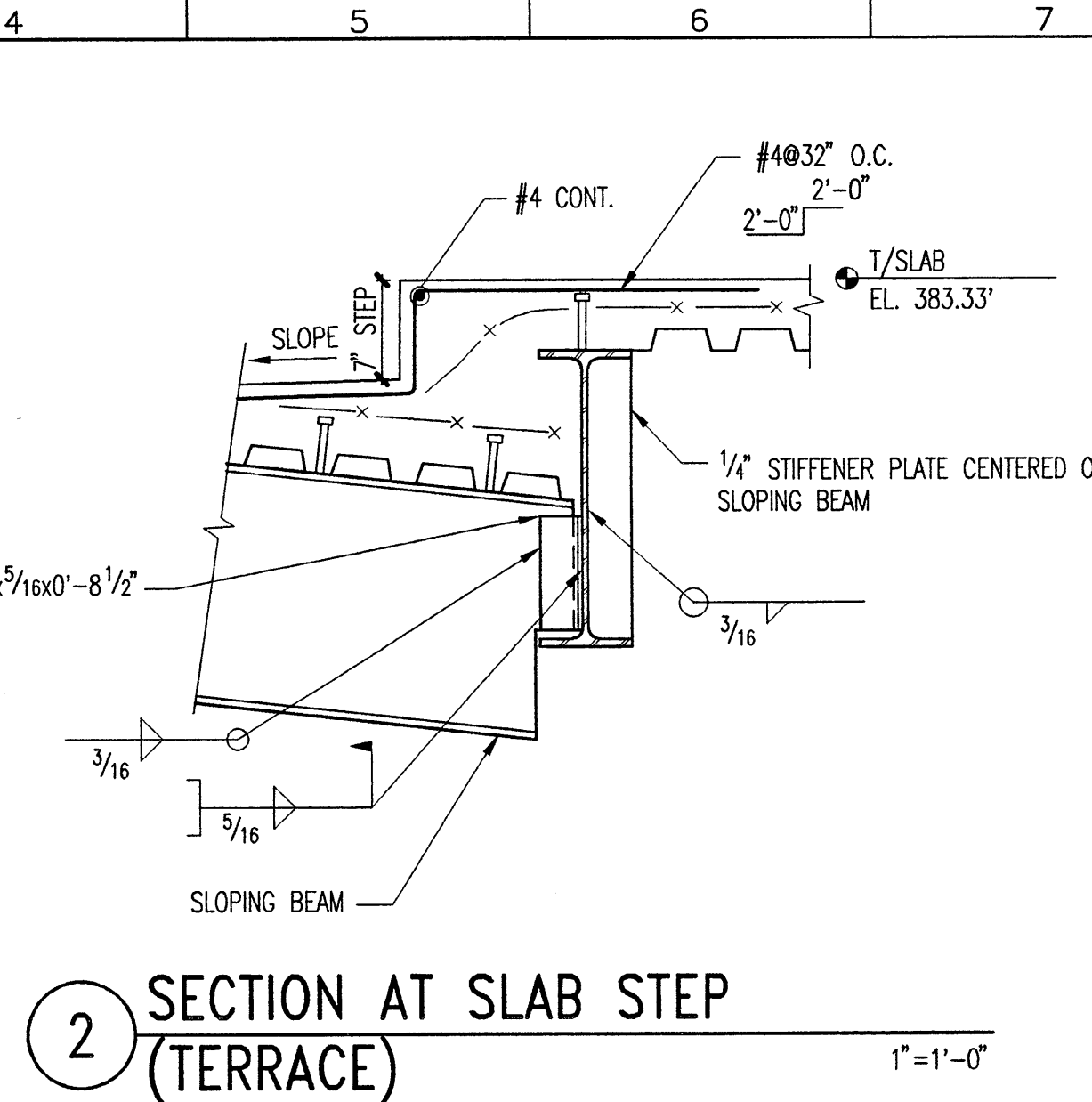
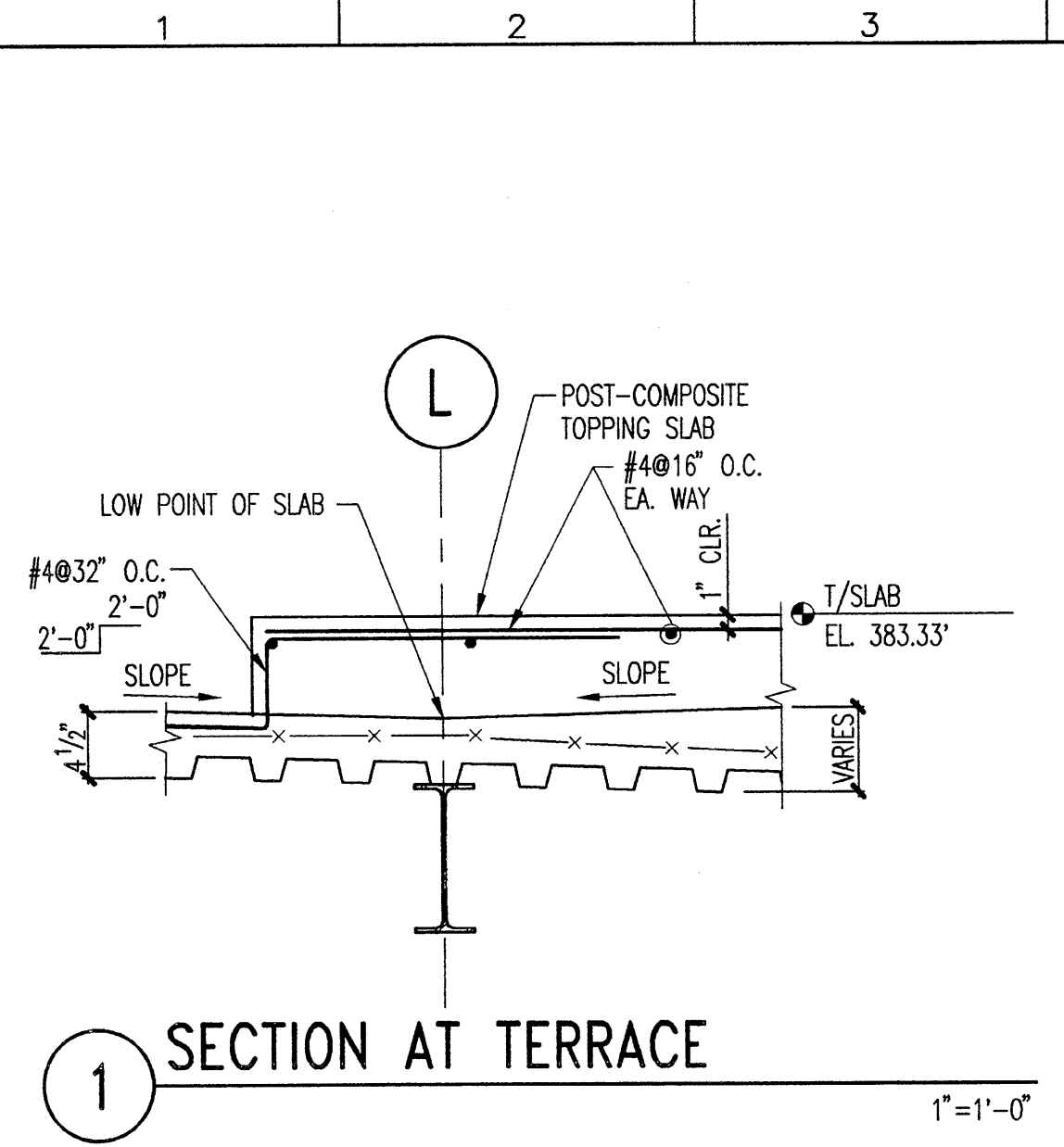


F CONNECTION AT MID-LEVEL (TS DIAGONALS)



G CONNECTION AT MID-LEVEL (TS DIAGONALS)

Braced Frame Elevations



BID ADDENDUM NO. 1 3/05/02		
NO.	REVISIONS/SUBMISSIONS	DATE

Sections