

# DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81  
OXFORD, GA 30054

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PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

## DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81  
OXFORD, GA 30054  
WALTON COUNTY, GEORGIA

COVER SHEET

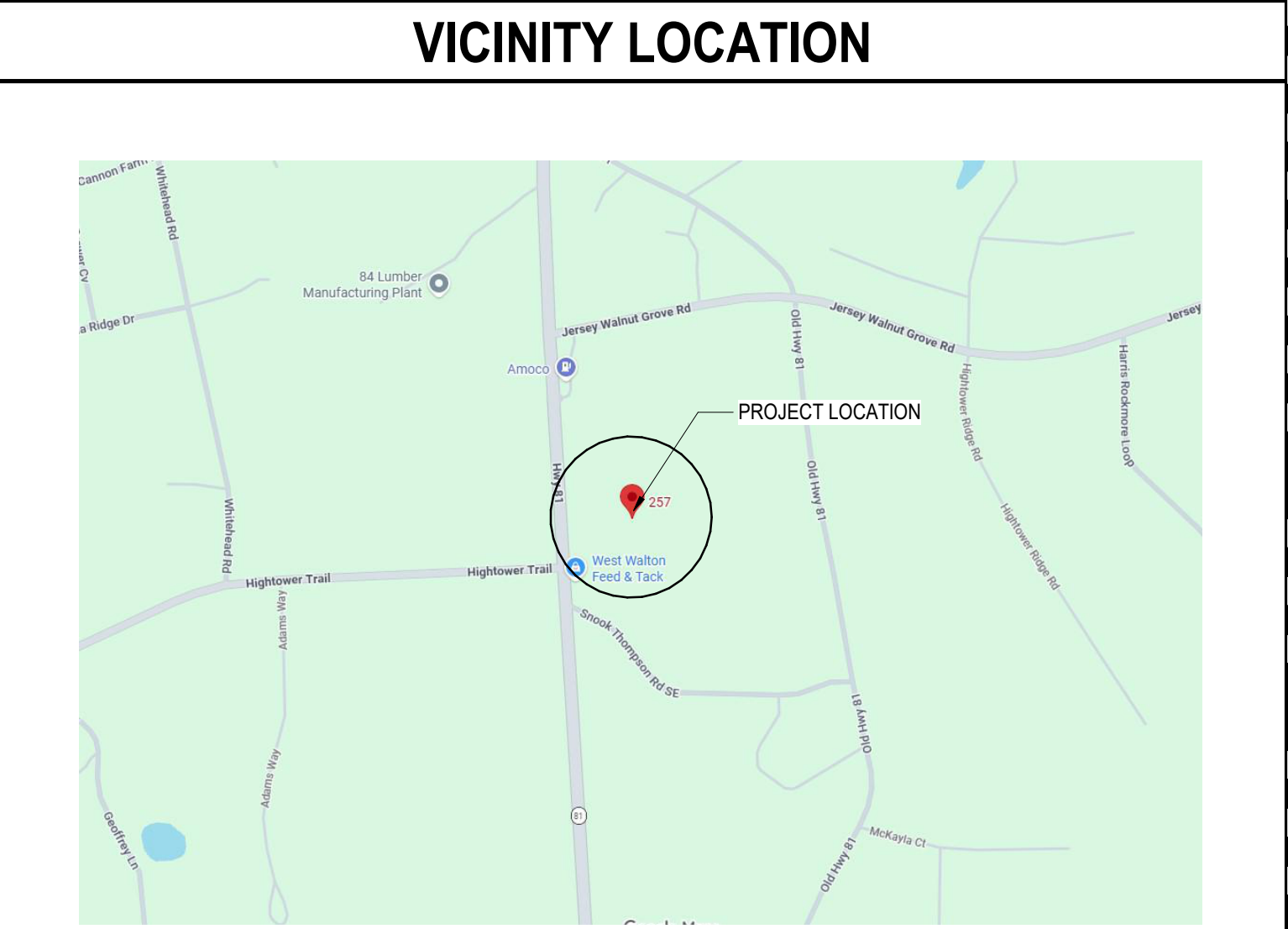
G-000

ISSUED FOR CONSTRUCTION

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BUILDING CODE ANALYSIS																																																											
<b>A. GENERAL</b>																																																											
<b>1. GOVERNING CODES</b> 2024 INTERNATIONAL BUILDING CODE (IBC) W/ 2026 GA AMENDMENTS 2024 INTERNATIONAL PLUMBING CODE (IPC) W/ 2026 GA AMENDMENTS 2024 INTERNATIONAL MECHANICAL CODE (IMC) W/ 2026 GA AMENDMENTS 2024 INTERNATIONAL FUEL GAS CODE W/ 2026 GA AMENDMENTS 2023 NFPA 70 NATIONAL ELECTRICAL CODE (NEC) W/ 2026 GA AMENDMENTS 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) W/ 2020, 2022, 2023 GA SUPPLEMENTS AND AMENDMENTS  <b>ACCESSIBILITY</b> GEORGIA STATE HANDICAPPED ACCESSIBILITY LAW 120-3-20 (EFFECTIVE JANUARY 1, 2015) 2010 EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA) 2017 ANSI A-117.1 ACCESSIBLE & USABLE BUILDINGS & FACILITIES  <b>LIFE SAFETY</b> 2024 NFPA 101, LIFE SAFETY CODE (LSC) W/ 2025 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72) 2018 INTERNATIONAL FIRE CODE (IFC) CHAPTER 120-3-3-RULES & REGULATIONS OF THE STATE MIN. & FIRE SAFETY STANDARDS (EFFECTIVE JANUARY 1, 2020) 2022 NFPA 13 FIRE SPRINKLER SYSTEMS W/ 2025 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS																																																											
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BUILDING INFORMATION	
<b>SITE ADDRESS:</b>	257 HIGHWAY 81 OXFORD, GA 30054
<b>JURISDICTION:</b>	WALTON COUNTY, GEORGIA
<b>PROJECT DESCRIPTION:</b>	CONSTRUCTION OF NEW OFFICE WAREHOUSE PRE-ENGINEERED METAL BUILDING. BUILDING WILL BE OF TYPE IIB CONSTRUCTION AND FULLY SPRINKLED (NFPA 13). OFFICE WILL BE ACCESSORY USE TO PRIMARY S-1 STORAGE USE. BUILDING WILL BE USED FOR DRYWALL STORAGE/ SALES.
<b>CLASSIFICATIONS:</b>	STORAGE (S-1) WITH ACCESSORY BUSINESS (B) OCCUPANCIES
<b>CONSTRUCTION TYPES:</b>	IIB
<b>SPRINKLERED:</b>	YES (NFPA 13)
<b>FIRE ALARM:</b>	NO
<b>NO. OF STORIES:</b>	1
<b>HIGH-RISE:</b>	NO



SHEET INDEX		ISSUED FOR CONSTRUCTION 04.15.2026	REVISIONS	
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SS.1	SCHEDULE OF SPECIAL INSPECTION			
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M-002	MECHANICAL SPECIFICATIONS			
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M-004	MECHANICAL DETAILS			
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P-0.1	PLUMBING SCHEDULES & SPECIFICATIONS			
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E-401	OVERALL FLOOR PLAN - LOW VOLTAGE			
E-501	ELECTRICAL DETAILS			
E-502	ELECTRICAL SCHEDULES			

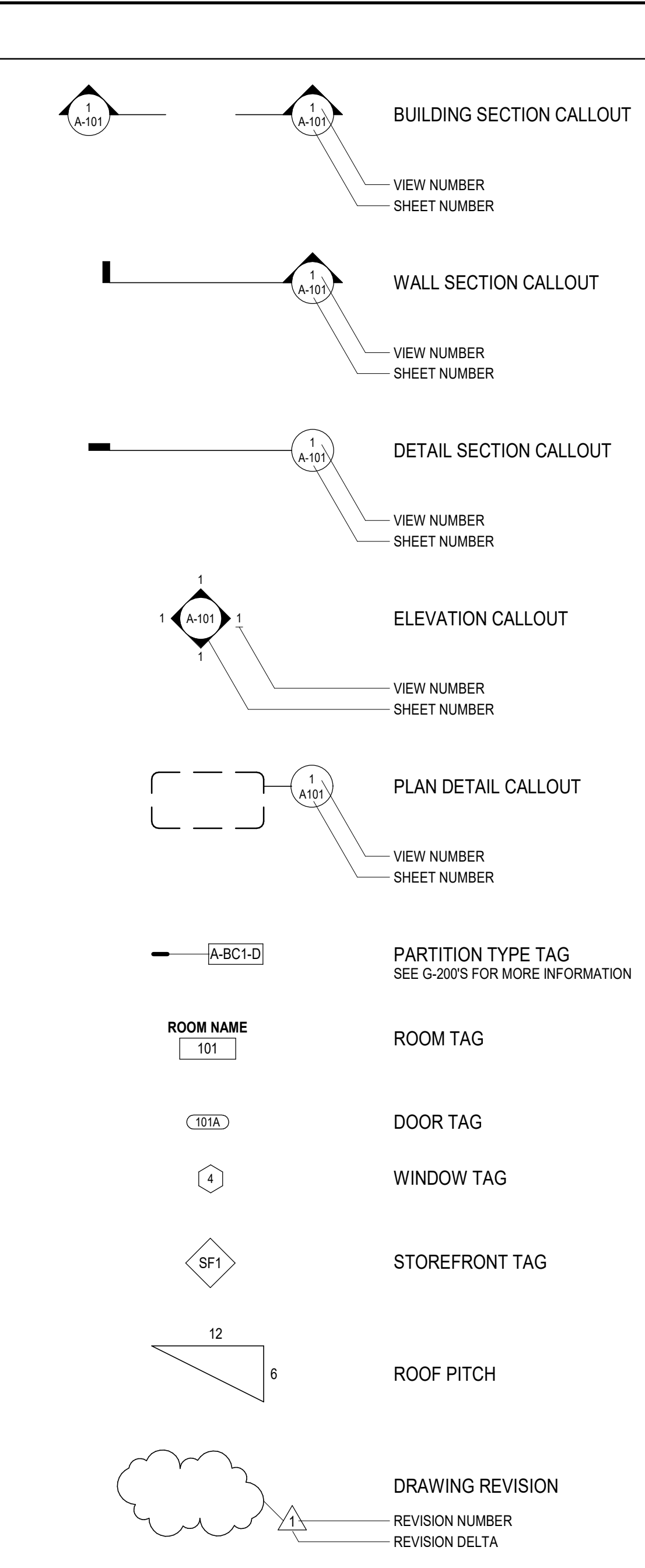
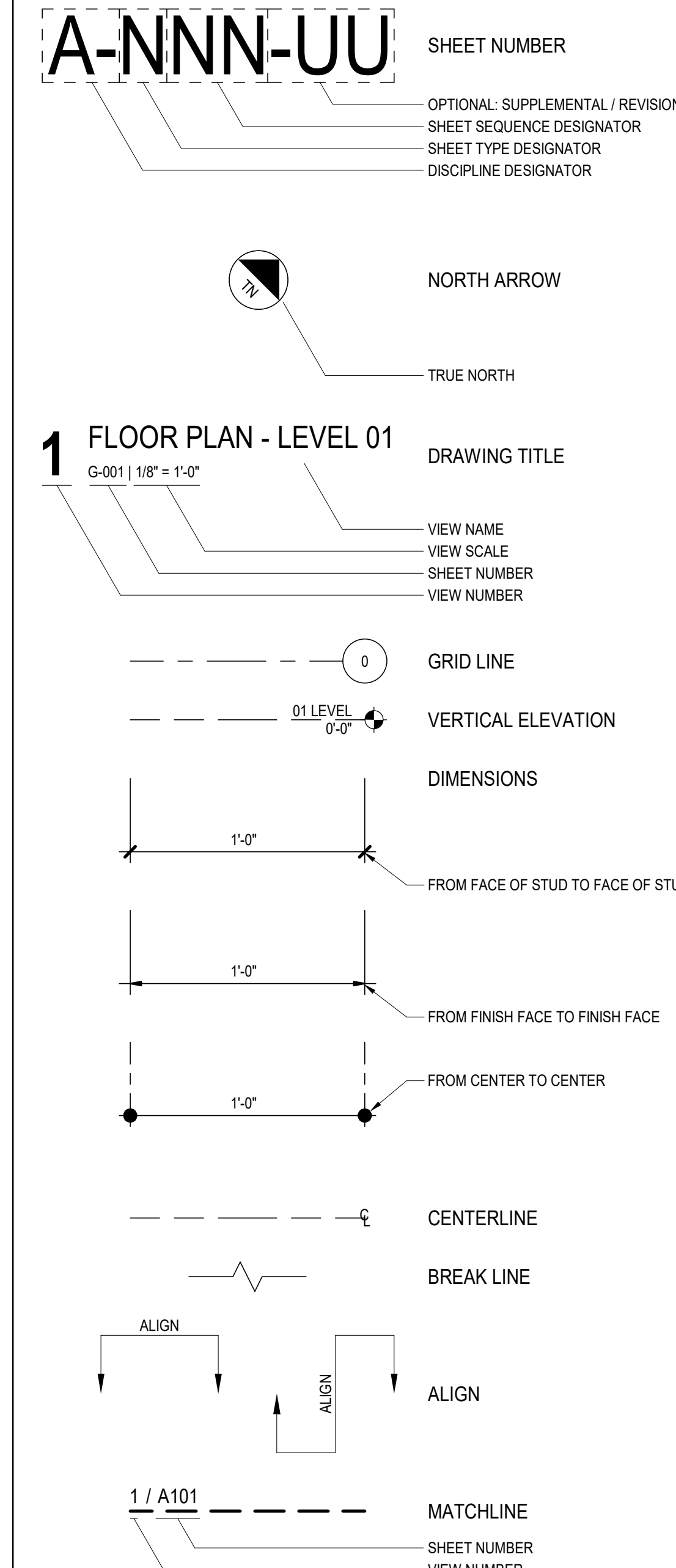
ABBREVIATION LEGEND

Table with columns for abbreviations and their corresponding full names. Includes categories like PERCENT SECTION, AIR CONDITIONER, ARCHITECT / ENGINEER, etc.

SECTION/PLAN LEGEND

Table listing materials and their corresponding symbols. Includes ALUMINUM, BATT INSULATION, BRICK, CONCRETE, CONCRETE MASONRY, EARTH, GRAVEL / DGA, PLASTER, GYPSUM WALL BOARD, PLYWOOD, RIGID INSULATION, SAND, SPRAY FOAM INSULATION, STEEL, IRON, STONE, WOOD BLOCKING / SHIM, WOOD DIMENSIONAL, WOOD FINISH.

SYMBOLS LEGEND



PROJECT NUMBER: 25-040

Table for REVISIONS with columns for NO., DATE, and ISSUE.

DRYWALL WAREHOUSE HWY 81

SYMBOLS & LEGENDS

G-005

ISSUED FOR CONSTRUCTION

# GENERAL NOTES

- DO NOT SCALE DRAWINGS - USE DIMENSIONS ONLY. FOR DIMENSIONS NOT SHOWN OR IN QUESTION, CONTRACTOR SHALL REQUEST CLARIFICATION FROM ARCHITECT BEFORE PROCEEDING. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND MUST NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING OF ANY DISCREPANCIES OR VARIATIONS FROM THE DIMENSIONS OR CONDITIONS SHOWN BY THESE DRAWINGS PRIOR TO ORDERING MATERIALS OR OTHERWISE PROCEEDING WITH THE WORK.
- UNLESS NOTED OTHERWISE, WALL AND PARTITION DIMENSIONS ARE GIVEN FROM FACE OF STUDICUMU TO FACE OF STUDICUMU OR TO COLUMN CENTERLINE. EXCEPTION: MILLWORK DETAILS WHERE DIMENSIONS ARE GIVEN FROM FACE OF FINISH SURFACES (GWB, PLASTER, ETC.). LOCATE EDGE OF DOOR OPENINGS 9" FROM FACE OF ADJACENT PARTITION UNLESS NOTED OTHERWISE.
- ELEVATIONS AND LEVELS ARE SHOWN FROM TOP OF SLAB BASED ON A "REFERENCE BENCHMARK ELEVATION" - THE CONTRACTOR SHALL COORDINATE THE ELEVATIONS PROVIDED WITH THE CIVIL DRAWINGS AND EXISTING ELEVATIONS WHEN APPLICABLE. COORDINATE WITH ARCHITECT AND CIVIL ENGINEER WHERE SITE REQUIRES MODIFICATIONS TO DESIGN ELEMENTS.
- ALL CENTERLINE OF FOOTINGS, WALLS, GRADE BEAMS, COLUMNS AND BEAMS SHALL COINCIDE, UNLESS NOTED OTHERWISE.
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS SPECIFICALLY SHOWN OTHERWISE.
- THIS SET OF CONSTRUCTION DOCUMENTS IS INTENDED TO BE READ AS A COMPREHENSIVE SET OF DRAWINGS AND SPECIFICATIONS. NOTE THAT THE SPECIFICATIONS FORM AN INTEGRAL PART OF THIS CONSTRUCTION DOCUMENTATION. THE CONTRACTOR SHALL CAREFULLY STUDY & COMPARE THE CONTRACT DOCUMENTS WITH EACH OTHER (EACH DISCIPLINE) AND THE INFORMATION FURNISHED BY THE DEVELOPER AND NOTIFY THE ARCHITECT OF ANY ERRORS, INCONSISTENCIES OR OMISSIONS. INFORMATION GIVEN BY ONE DISCIPLINE SHALL BE APPLICABLE FOR ALL PORTIONS OF THE CONSTRUCTION DOCUMENTS IN ORDER TO MEET THE DESIGN INTENT. IF THE CONTRACTOR PERFORMS ANY CONSTRUCTION ACTIVITY WHERE AN ERROR, INCONSISTENCY OR OMISSION IN THE CONTRACT DOCUMENTS IS EVIDENT WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL ASSUME THE APPROPRIATE RESPONSIBILITY AT NO ADDITIONAL COST TO THE OWNER.
- ALL DRAWINGS, SPECIFICATIONS, & OTHER DOCUMENTS PREPARED BY THE ARCHITECT & ARCHITECT'S CONSULTANTS ARE INSTRUMENTS OF SERVICE SOLELY FOR THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, COORDINATING AND PAYING FOR THE COST OF ALL INSPECTIONS, TESTS, PERMITS, LICENSES AND OTHER GOVERNMENTAL FEES, AS NECESSARY FOR PROPER EXECUTION TO COMPLETE THE WORK AND AS INDICATED ON THE PLANS AND SPECIFICATIONS, RECOMMENDED BY THE GEOTECHNICAL REPORT AND/OR AS REQUIRED BY ANY GOVERNMENTAL AGENCY. REVISIONS MADE AFTER INITIAL PERMIT PULL REQUIRING RESUBMISSION OF REVISED DOCUMENTS AND/OR ADDITIONAL FEES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- THE CONTRACTOR SHALL COMPLY WITH AND GIVE NOTICES REQUIRED BY LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF THE PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE OF THE WORK. ALL WORK SHALL BE PREPARED IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE, & LOCAL CODES & REGULATIONS INCLUDING THE AMERICANS WITH DISABILITIES ACT.
- THE CONTRACTOR SHALL VISIT THE SITE AND SURROUNDING AREAS TO BECOME FAMILIAR WITH THE WORK REQUIRED PRIOR TO ANY ON-SITE CONSTRUCTION OR MOBILIZATION. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY TO ACCOUNT FOR NON-TYPICAL SOILS CONDITIONS, INCLUDING BY NOT LIMITED TO THE PRESENCE OF CLAY OR GROUND WATER.
- THE CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, EQUIPMENT, AND SERVICES REQUIRED TO EXECUTE AND COMPLETE ALL ITEMS OF WORK AS SHOWN, OR INDICATED ON THE DRAWINGS AND AS SPECIFIED INCLUDING INCIDENTAL ITEMS TO EFFECT A FINISHED AND COMPLETE JOB. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR SAFETY REGULATIONS IN CONNECTION WITH WORK.
- THE CONTRACTOR SHALL PROVIDE ALL REGULATORY AGENCY REQUIRED SIGNAGE NECESSARY FOR CERTIFICATE OF OCCUPANCY.
- ANY AND ALL REVISIONS FROM THESE PLANS MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ONCE CONSTRUCTION HAS COMMENCED, ANY REVISIONS IN THE FIELD MUST BE APPROVED BY THE OWNER'S CONSTRUCTION REPRESENTATIVE AND THE ARCHITECT. THE ARCHITECT MAY AUTHORIZE AT ANY POINT MINOR CHANGES IN WORK INVOLVING ADJUSTMENTS IN CONTRACT SUM VIA ARCHITECT'S SUPPLEMENTAL INSTRUCTIONS (AS) WHICH ARE CONSISTENT WITH THE INTENT OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR BRACING AND SHORING OF THE STRUCTURE DURING CONSTRUCTION TO ENSURE STABILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH THE AUTHORITIES HAVING JURISDICTION ON THE PROJECT.
- THE CONTRACTOR SHALL MAINTAIN ON SITE AND MAKE AVAILABLE IN THE JOB TRAILER A LIST OF SPECIAL INSPECTORS CONDUCTING INSPECTIONS ON THE PROJECT. THE LIST SHALL INDICATE THE NAMES OF INSPECTOR, DATES, AND TIMES PRESENT ON JOB SITE AND TYPES OF INSPECTIONS BEING CONDUCTED. INSPECTION REPORTS SHALL ALSO BE MADE AVAILABLE UPON REQUEST.
- THE CONSTRUCTION SCHEDULE SHALL BE RELATED TO THE ENTIRE PROJECT AND BE CONDUCTED IN STRICT ACCORDANCE WITH THE SEQUENCE OF OPERATIONS IN WHICH THE CONTRACTOR HAS COORDINATED WITH THE OWNER'S APPROVAL ON ALL SCHEDULE SEQUENCING TO AVOID CONFLICTS WITH DAILY OPERATIONS AND SPECIAL EVENTS INCLUDING ANY EXISTING FACILITIES AND ACCESS AS MAY BE APPLICABLE.
- THE USE OF THE SITE SHALL BE CONFINED TO THOSE AREAS APPROVED BY THE OWNER AND CODE IN ORDER TO MINIMIZE PUBLIC EXPOSURE TO UNSAFE CONDITIONS AND TO CONTINUE THE OPERATION OF THE SURROUNDING DEVELOPMENT.
- NO STRUCTURE OF ANY KIND IS TO BE CONSTRUCTED ON OR PLACED WITHIN PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING. REQUIRE PAVING FOR ACCESS AND GROUND COVER INCLUDING GRASS. THE CONTRACTOR SHALL REPLACE ANY OBSTRUCTIONS OR PLANTING THAT MUST BE REMOVED DURING THE COURSE OF MAINTENANCE, CONSTRUCTION OR RECONSTRUCTION OF THE PUBLIC UTILITIES AT NO COST TO THE OWNER.
- NO BUILDING OR PORTION OF A BUILDING SHALL BE OCCUPIED OR USED INCLUDING STORAGE PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY. APPROVAL FOR OCCUPANCY IS ONLY GRANTED AFTER ACCEPTANCE BY THE FIRE MARSHAL AND BUILDING OFFICIAL.
- MATERIAL AND EQUIPMENT STORAGE SHALL BE ON SITE AND COORDINATED WITH OWNER'S DIRECTIVES.
- SIGNS, LOCATION, NUMBER, AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN. ALL IDENTIFICATION SIGNAGE SHALL BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR (UNLESS NOTED OTHERWISE). SIGNAGE ON RESTROOM DOORS SHALL BE RAISED AND BRILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS. IDENTIFICATION SIGNAGE SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL COMPLY WITH THE GEORGIA ACCESSIBILITY CODE AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- EXIT DOORS SHALL NOT BE SUBJECTED TO USE OF A KEY OR REQUIRE SPECIAL KNOWLEDGE TO OPERATE PER THE NFPA 101 LIFE SAFETY CODE 2024 EDITION, (CHAPTER 7.2.1.5.) PANIC HARDWARE SHALL BE PROVIDED FOR ALL EXIT DOORS PER THE REQUIREMENTS OF THE NFPA LIFE SAFETY CODE. EXIT DOORS SHALL OPERATE PER NFPA 101 LIFE SAFETY CODE.
- (DOOR/HARDWARE) HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES SHALL BE PROVIDED THAT COMPLY WITH GEORGIA ACCESSIBILITY CODE AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN. OPERABLE PARTS SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS (22.2 N) MAX.
- PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE AND SHALL BE INSTALLED WITH THE GEORGIA ACCESSIBILITY CODE AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- DETECTIBLE WARNINGS ON WALKING SURFACES SHALL COMPLY WITH THE GEORGIA ACCESSIBILITY CODE AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
- ALL MATERIALS EXPOSED WITHIN PLENUMS ARE REQUIRED TO BE NONCOMBUSTIBLE OR SHALL HAVE A FLAME SPREAD INDEX AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E84.
- THE CONTRACTOR SHALL DOCUMENT THAT INSULATION MATERIALS IN CONCEALED OR EXPOSED SPACES SHALL HAVE A FLAME SPREAD INDEX AND A SMOKE-DEVELOPED INDEX THAT MEETS CODE.
- ALL INTERIOR FINISH PRODUCTS SHALL BE PROVIDED IN COMPLIANCE WITH THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE FOR WHICH THE PROJECT IS BEING PERMITTED UNDER. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION VERIFYING AT THE TIME OF FINAL INSPECTION THAT PRODUCTS ARE COMPLIANT WITH THE CODE REQUIREMENTS.
- ALL WOOD LUMBER AND PLYWOOD OR S.B. USED IN EXTERIOR CONSTRUCTION SHALL BE PRESSURE TREATED THAT COMES IN CONTACT WITH CONCRETE OR WITHIN 12" OF GRADING/SOIL.
- EMERGENCY LIGHTING COMPLYING WITH NFPA 101 LIFE SAFETY CODE SHALL BE INSTALLED. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED UPON FIELD INSPECTION.
- THE CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL FIRE-RATED WALLS AND SMOKE BARRIERS WITH SIGNS OR STENCILING ABOVE CEILING OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF 2" HIGH ON A CONTRASTING BACKGROUND SPACED AT A MAXIMUM OF 12'-0" ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER IN ACCORDANCE WITH CODE.
- PRIOR TO INSTALLATION, THE CONTRACTOR SHALL SUBMIT DETAILS FOR REVIEW AND APPROVAL WHICH CLEARLY INDICATE LATERAL BRACING TO BUILDING STRUCTURE FOR ALL PARTITIONS OF LIGHT GAUGE METAL FRAMING WHICH EXCEED 9'-0" IN HEIGHT TO ADEQUATELY RESIST THE APPLICABLE LATERAL SEISMIC DESIGN FORCES PER CODE.
- ALL COLD FORM METAL FRAMING SHOWN ON THE DRAWINGS IS FOR DIAGRAMMATIC USE ONLY. MEMBER SIZE, CONFIGURATION, DETAILS AND CONNECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR'S COLD FORM METAL FRAMING ENGINEER. COLD FORM METAL FRAMING SHOP DRAWINGS, COMPLETE WITH CALCULATIONS, SHALL BE SIGNED AND SEALED BY THE COLD FORM METAL FRAMING ENGINEER IN THE STATE HAVING JURISDICTION OVER THE PROJECT AND SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- PROVIDE FIRE RETARDANT TREATED BLOCKING IN PARTITIONS AS REQUIRED FOR SUPPORTING WALL MOUNTED EQUIPMENT, ETC.
- ELECTRICAL PANELS, ALARM BOXES, FIRE EQUIPMENT CABINETS AND OTHER SIMILARLY RECESSED BOXES GREATER THAN 16" THAT ARE LOCATED IN A RATED ASSEMBLY SHALL BE BACKED BY GYPSUM WALLBOARD LAYERS SUFFICIENT TO MAINTAIN THE DESIGNATED FIRE RATING. FIRE EQUIPMENT CABINETS MAY BE PROVIDED WITH A RATED CABINET TO MATCH THE MINIMUM DESIGNED ASSEMBLY RATING THEY ARE LOCATED WITHIN.
- ATTIC ACCESS FROM AN ADJACENT SPACE SHALL BE PROVIDED WHERE THE BELOW ITEMS OCCUR OVER GYPSUM BOARD CEILINGS:
  - VALVES
  - FLOW MEASURING DEVICES
  - MIXING BOXES
  - POWER OPERATED DAMPERS
  - ACCESS PANELS IN DUCTWORK
  - VOLUME AND BALANCING DEVICES
  - WATERFLOW SWITCHES
  - SPRINKLER SYSTEM DRAINS AND TEST CONNECTIONS
  - PRESSURE SWITCHES
  - ANY OTHER SIMILAR RELATED ITEMS/DEVICES REQUIRING ACCESS FOR SERVICING OR MAINTENANCE
- PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE. ALL EXISTING WORK FURNISHINGS, EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
- SLOPE ALL SLABS AT EXTERIOR BUILDING ENTRANCES 1/8" FT AWAY FROM BUILDING IN ALL LOCATIONS.

- ISOLATE DISSIMILAR METALS BY MEANS OF HEAVY BITUMINOUS COATING, APPROVED PAINT, ADHERED POLYETHYLENE SHEET, OR OTHER MEANS APPROVED OF BY THE ARCHITECT.
- PRIME AND PAINT ALL STEEL LINTELS, HANDRAILS, AND ANY AND ALL OTHER INTERIOR OR EXTERIOR EXPOSED FERROUS METAL SURFACES NOT OTHERWISE INDICATED AS COATED OR PAINTED.
- STRUCTURAL WORK INCLUDING MATERIAL STRESSES AND METHODS OF CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED BUILDING CODE, OSHA AND GOVERNING AGENCIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL USE CONSTRUCTION METHODS THAT ARE IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- THE CONTRACTOR SHALL MAINTAIN THE PREMISES FREE FROM ACCUMULATIONS OF WASTE MATERIALS, DEBRIS AND RUBBISH CAUSED BY OPERATIONS.
- AFTER COMPLETION OF WORK ALL ADDITIONAL MATERIALS REMAINING DUE TO CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF/REMOVED FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, ORDINANCES, RULES, AND REGULATIONS U.N.O. THE CONTRACTOR SHALL ALSO REMOVE ALL WASTE DEBRIS, RUBBISH, TOOLS, EQUIPMENT, AND SURPLUS MATERIALS UPON COMPLETION OF WORK. THROUGHOUT CONSTRUCTION THE SITE SHALL BE ORGANIZED AND CLEANED BY THE CONTRACTOR ON A DAILY BASIS.
- THE CONTRACTOR SHALL RESTORE TO ITS ORIGINAL CONDITION ALL SITE APPURTENANCES DAMAGED UNDER THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- ANY MATERIAL SCHEDULED FOR DEMOLITION SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE DISPOSED OF LEGALLY BY THE CONTRACTOR.
- THE CONTRACTOR SHALL REVIEW FLOOR FINISHES. ALL FINISHED FLOORS SHALL BE FLUSH TO ADJACENT FLOOR SYSTEMS WHETHER OF SIMILAR OR DISSIMILAR MATERIALS.
- THE FLOOR LEVEL SHALL BE THE SAME ON BOTH SIDES OF ALL INTERIOR DOORS.
- PROVIDE FLASHING AT ALL WINDOWS AND DOORS EXTERIOR WALLS THROUGHOUT. PROVIDE ALL WALL, BASE, CAP, THRU-WALL, AND COUNTER FLASHING AS REQUIRED TO PREVENT ENTRANCE OF MOISTURE AND WATER INTO THE BUILDING.
- ALL PENETRATIONS INTO OR THROUGHOUT EITHER A VERTICAL AND/OR HORIZONTAL FIRE RATED ASSEMBLY SHALL BE PROTECTED BY A FIRE-STOPPING ASSEMBLY LISTED BY A RECOGNIZED TESTING AGENCY.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PRODUCT DATA, SAMPLES, AND SHOP DRAWINGS FOR SPECIFIED ITEMS. THESE ITEMS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- COMPLETE SHOP DRAWINGS FOR ALL SPECIALTY ITEMS INCLUDED BUT NOT LIMITED TO ORNAMENTAL GUARDRAILS SHALL BE PROVIDED BY THE CONTRACTOR WITH SIGNATURE AND SEAL SIGNIFYING REVIEW AND APPROVAL BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA AND SHALL BE MADE AVAILABLE AT THE JOB SITE DURING TIMES OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY FIRE EXTINGUISHERS DURING CONSTRUCTION AND PERMANENT FIRE EXTINGUISHERS INCLUDING AT ALL FIRE EXTINGUISHER CABINET LOCATIONS MARKED ON PLAN IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 10.
- ALL FINAL MATERIAL FINISH SELECTIONS TO BE APPROVED BY OWNER PRIOR TO ORDERING.
- INDICATED TELEVISION LOCATIONS ON PLAN SHALL BE PROVIDED WITH BLOCKING AS REQUIRED IN WALLS WITH OWNER'S FINAL FURNITURE, FIXTURES, AND EQUIPMENT PACKAGE. T.V.'S AND WALL BRACKETS ARE BY OWNERS F.F.E. AND/OR RESIDENTS. CONTRACTOR SHALL CONFIRM FINAL BLOCKING REQUIREMENTS WITH OWNER PRIOR TO WALL COVER-UP.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SPECIAL INSPECTIONS AS REQUIRED BY IBC CHAPTER 17. SPECIAL INSPECTION REPORTS AND FINAL REPORT IN ACCORDANCE WITH SECTION 1704.2.4 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO THE TIME THAT PHASE OF WORK IS APPROVED FOR OCCUPANCY.
- UNLESS DETERMINED BY THE "FIRE CODE OFFICIAL" THAT A RADIO COVERAGE SYSTEM IS NOT NEEDED FOR NEW BUILDINGS, THE GENERAL CONTRACTOR SHALL PROVIDE FOR IFC 510 TESTING AND PROVIDE SYSTEM AS REQUIRED BASED ON TEST DATA AND FIRE MARSHAL REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT CERTIFIED FIRE SUPPRESSION DOCUMENTS TO FIRE MARSHAL FOR APPROVAL PRIOR TO PROCEEDING WITH ANY WORK.
- COORDINATE LOCATION OF UTILITY METERS WITH SITE PLAN. MINIMIZE VISUAL IMPACT OF METERS BY KEEPING THEM AS LOW AS POSSIBLE.



**Project Information**  
 Energy Code: 2015 IECC  
 Project Title: 25-040 Hwy 81 Drywall  
 Location: Oxford, Georgia  
 Climate Zone: 3a  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 2%

Construction Site: 257 Highway 81 Oxford, Georgia 30054  
 Owner/Agent: Pablo Zurita Georgia  
 Designer/Contractor: Kevin Whipple CSC Design, Inc. 135 P. Rickman Industrial Drive, Suite 100 Canton, Georgia 30115 kwipple@csdcde.com

Credits: 1.0 Required 1.0 Proposed  
 Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1-Warehouse : Nonresidential	3000
2-Office : Nonresidential	2500

**Envelope Assemblies**

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sup>(a)</sup>
Roof: Other Metal Building Roof, High Albedo Roof Exemption = Roof Over Conditioned Space With No Cooling, [Bldg. Use 1 - Warehouse] (b)	3000	---	---	0.045	0.035
Roof: Other Metal Building Roof, 3-Year-Aged Solar Reflectance Index = 77.00 (d), [Bldg. Use 2 - Office] (b)	2500	---	---	0.045	0.035
<b>NORTH</b> Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	2540	---	---	0.084	0.079
Ext. Wall: Other Metal Building Wall, [Bldg. Use 2 - Office] (b)	567	---	---	0.038	0.079
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 1/4" solarbronze + 1/2" air + 1/4" solarbar 70, SHGC 0.25, PF 1.00, [Bldg. Use 2 - Office] (c)	12	---	---	0.260	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 1/4" solarbronze + 1/2" air + 1/4" solarbar 70, SHGC 0.25, [Bldg. Use 2 - Office] (c)	12	---	---	0.260	0.460
<b>EAST</b> Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	655	---	---	0.084	0.079
Sectional Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse]	168	---	---	0.130	0.179
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	21	---	---	0.460	0.610
<b>SOUTH</b> Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	2540	---	---	0.084	0.079

Project Title: 25-040 Hwy 81 Drywall Report date: 04/07/26  
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Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sup>(a)</sup>
Warehouse] (b) Ext. Wall: Other Metal Building Wall, [Bldg. Use 2 - Office] (b)	567	---	---	0.038	0.079
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 1/4" solarbronze + 1/2" air + 1/4" solarbar 70, SHGC 0.25, PF 1.00, [Bldg. Use 2 - Office] (c)	24	---	---	0.260	0.460
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 1/4" solarbronze + 1/2" air + 1/4" solarbar 70, SHGC 0.25, [Bldg. Use 2 - Office] (c)	12	---	---	0.260	0.460
<b>WEST</b> Ext. Wall: Other Metal Building Wall, [Bldg. Use 2 - Office] (b)	567	---	---	0.038	0.079
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID 1/4" solarbronze + 1/2" air + 1/4" solarbar 70, SHGC 0.25, PF 0.50, [Bldg. Use 2 - Office] (c)	41	---	---	0.260	0.770
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID 1/4" solarbronze + 1/2" air + 1/4" solarbar 70, SHGC 0.25, [Bldg. Use 2 - Office] (c)	36	---	---	0.260	0.460
Ext. Wall: Other Metal Building Wall, [Bldg. Use 1 - Warehouse] (b)	655	---	---	0.084	0.079
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Warehouse]	21	---	---	0.460	0.610
Sectional Door: Insulated Metal, Non-Swinging, [Bldg. Use 1 - Warehouse]	168	---	---	0.130	0.179

- (a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
- (b) Other components require supporting documentation for proposed U-factors.
- (c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
- (d) High albedo roof requirement options: 1) 3-year aged solar reflectance  $\geq 0.55$  thermal emittance  $\geq 0.75$ , 2) 3-year aged solar reflectance index  $\geq 64.0$ , 3) Initial year aged solar reflectance  $\geq 0.70$  thermal emittance  $\geq 0.75$ , 4) Initial year aged solar reflectance index  $\geq 82.0$ .

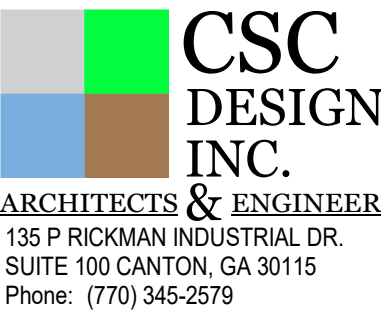
Envelope PASSES: Design 5% better than code

**Envelope Compliance Statement**

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Kevin Whipple, RA Date: 04/07/2026  
 Name - Title Signature

Project Title: 25-040 Hwy 81 Drywall Report date: 04/07/26  
 Data filename: Page 2 of 11



135 P. RICKMAN INDUSTRIAL DR. SUITE 100 CANTON, GA 30115  
 Phone: (770) 345-2579



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

DRYWALL WAREHOUSE HWY 81  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

GENERAL NOTES & COMCHECK

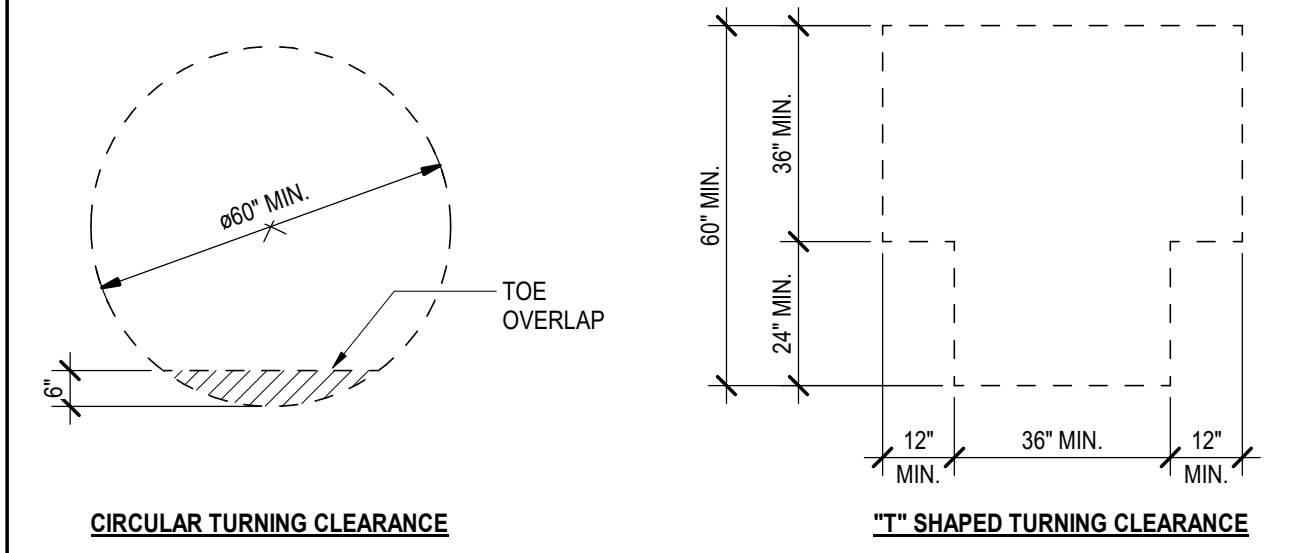
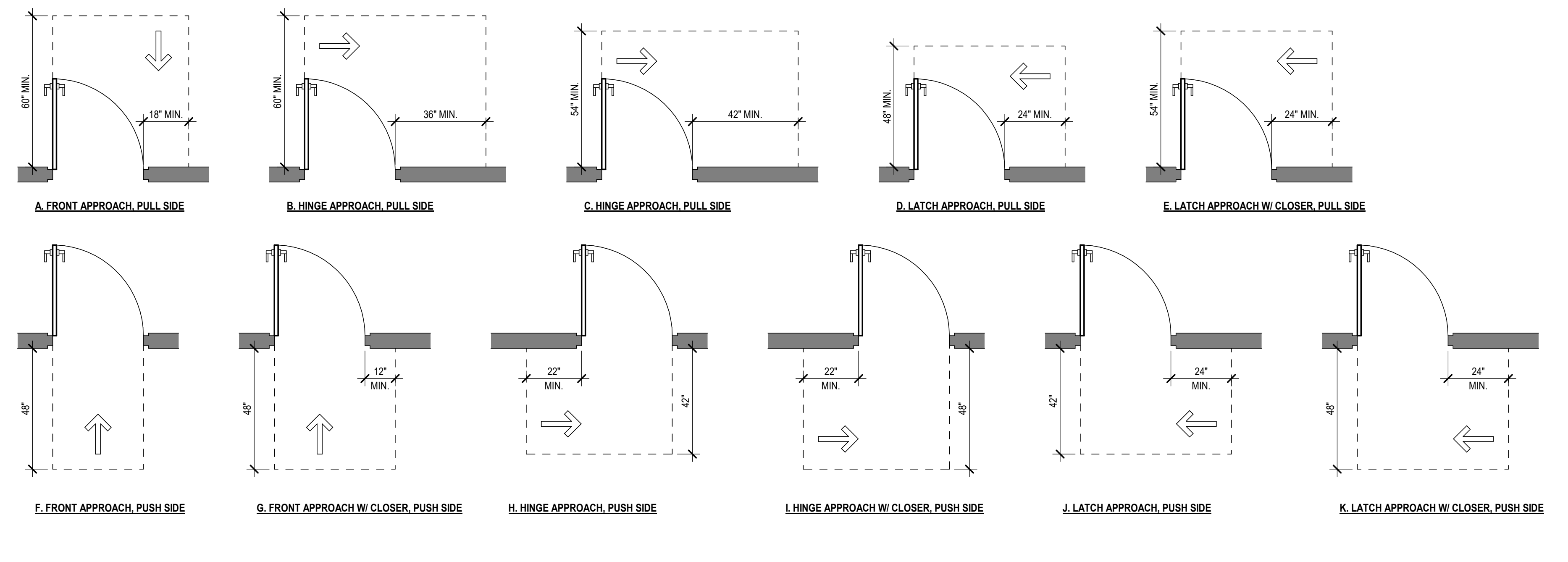
G-006

ISSUED FOR CONSTRUCTION

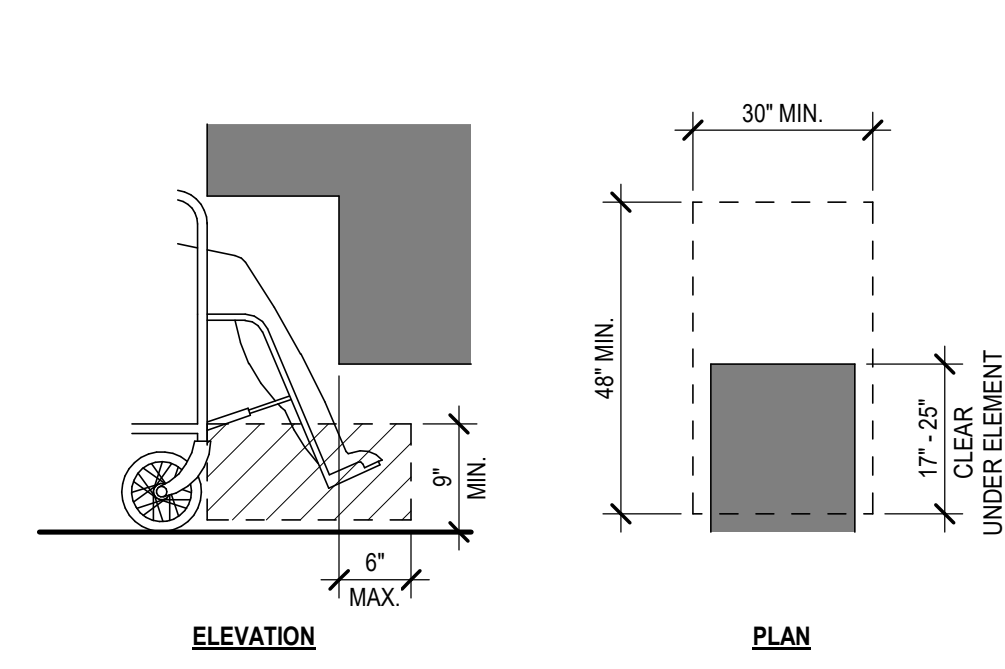
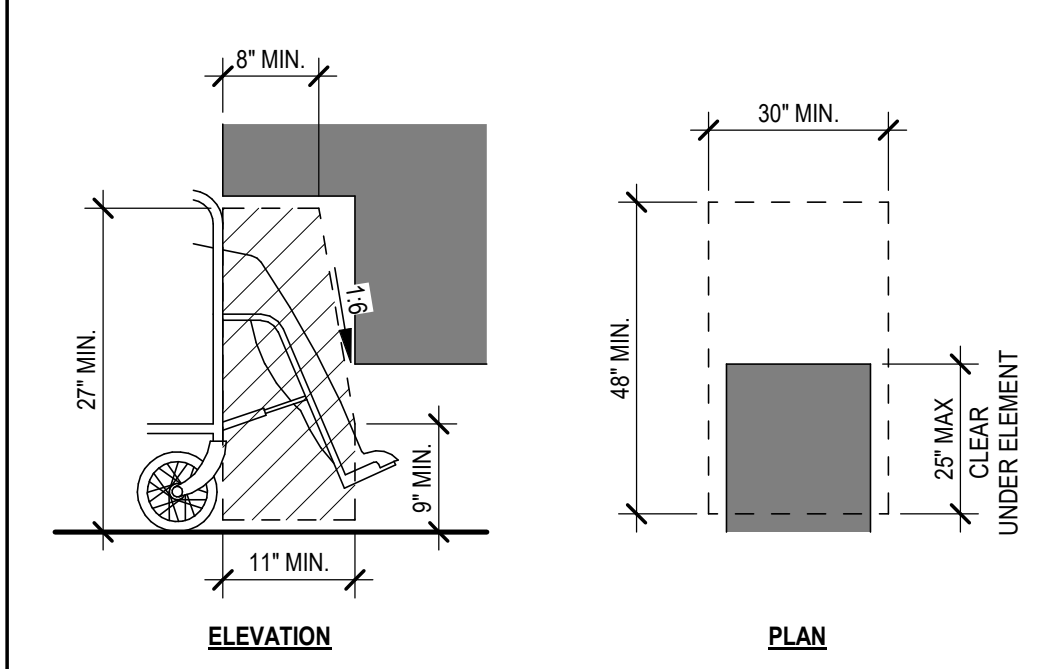


PROJECT NUMBER: 25-040

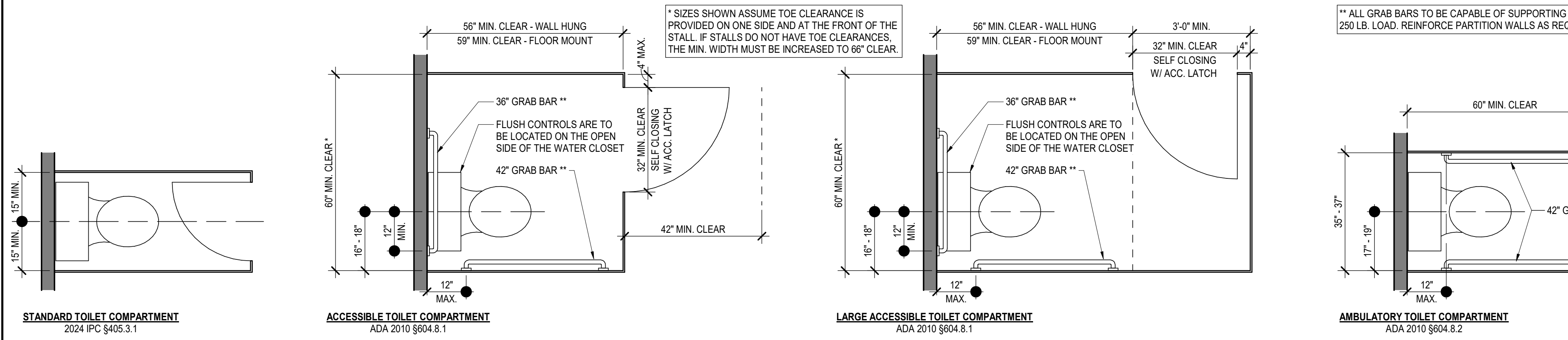
REVISIONS	NO.	DATE	ISSUE



**ADA 2010 §304.3 - TURNING CLEARANCE**

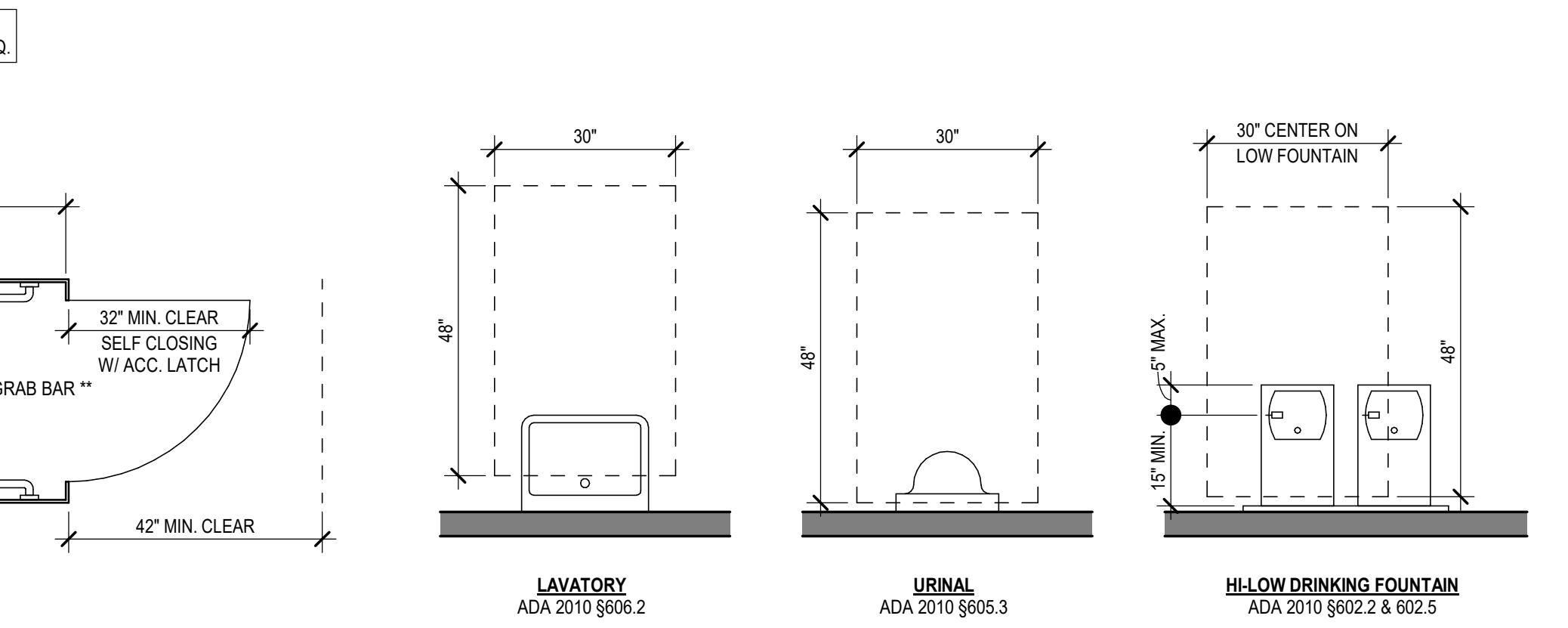


**ANSI 117.1-2010 §404.2.4 - MANEUVERING CLEARANCE AT SWING DOORS**

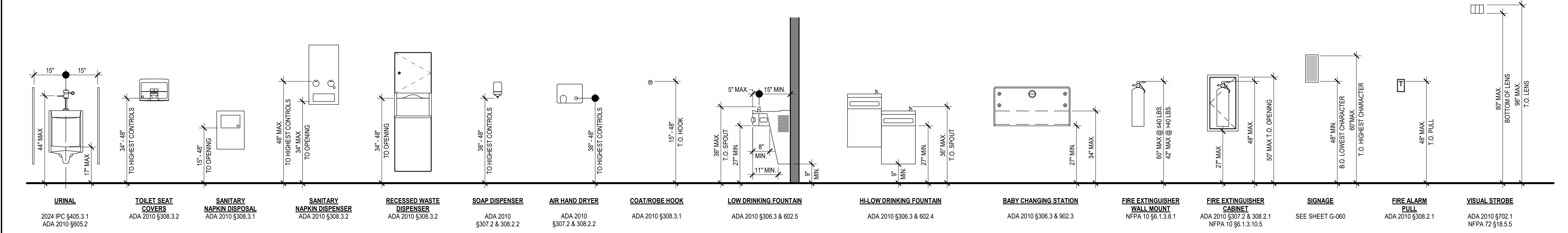
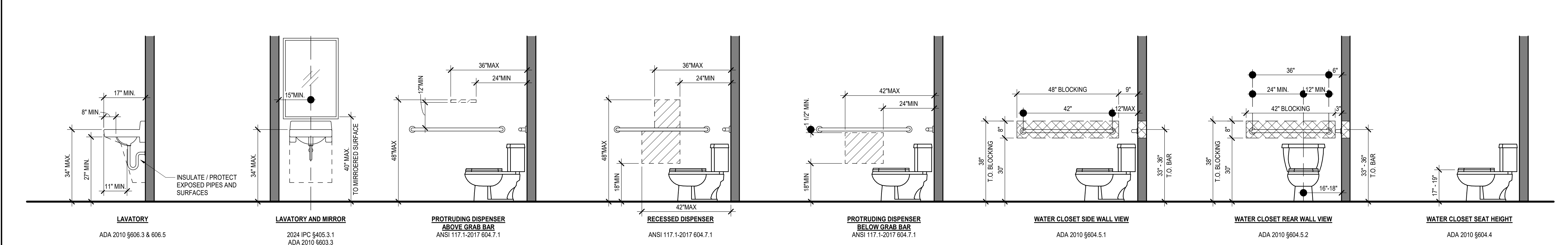


**ADA 2010 §306.3 - KNEE CLEARANCE**

**ADA 2010 §306.2 - TOE CLEARANCE**



**STANDARD CLEARANCES**



**MOUNTING HEIGHTS**

**DRYWALL WAREHOUSE HWY 81**  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

**ACCESSIBILITY DETAILS**

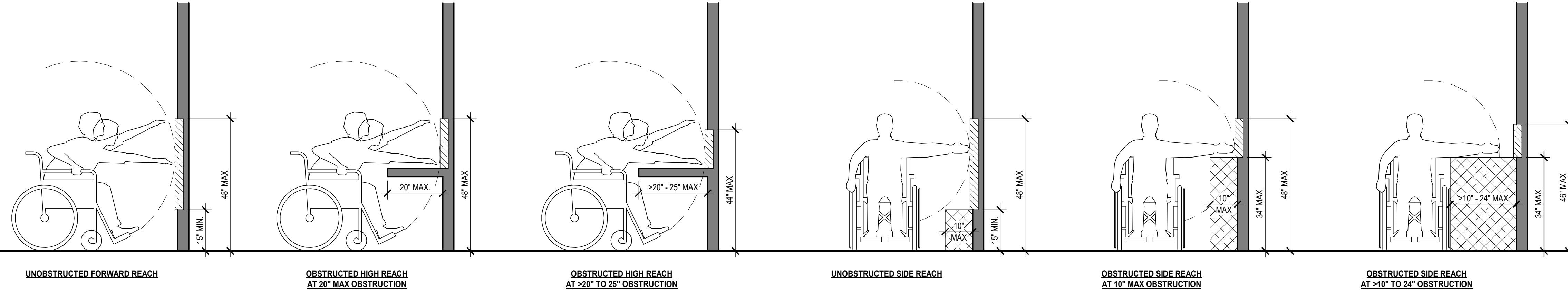
**G-050**

ISSUED FOR CONSTRUCTION

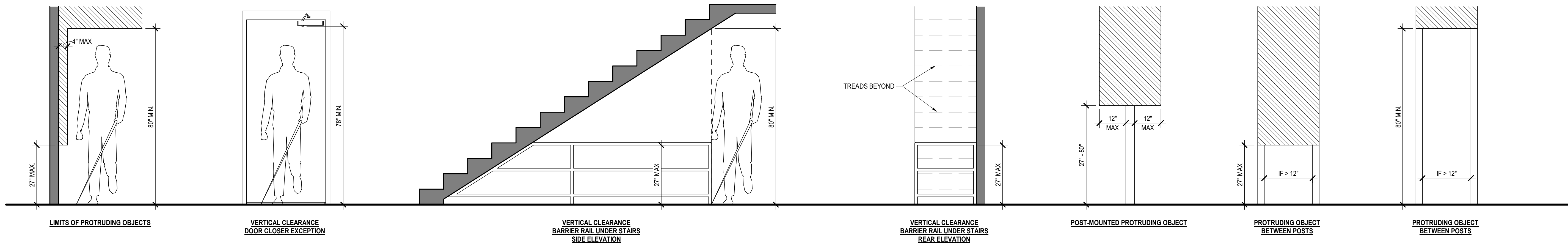


PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE



**ADA 2010 §308 - REACH RANGES**



**ADA 2010 §307 - PROTRUDING OBJECTS DETAILS**

**DRYWALL WAREHOUSE HWY 81**  
257 HIGHWAY 81  
OXFORD, GA 30054  
WALTON COUNTY, GEORGIA

ACCESSIBILITY  
DETAILS

**G-051**

ISSUED FOR  
CONSTRUCTION





# PLUMBING FIXTURE REQUIREMENTS SCHEDULE

PLUMBING FIXTURE COUNT	AREA	LINEAR INCHES	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT OVERRIDE	DESIGN OCCUPANT LOAD	WATER CLOSETS			LAVATORIES		BATHTUB / SHOWERS	DRINKING FOUNTAIN
						MALE		FEMALE	MALE	FEMALE		
						COUNT	URINAL COUNT	COUNT	COUNT	COUNT		
LEVEL 01												
10 - BUSINESS	926.80 SF	0"	25	0	25	0.50	0.25	0.50	0.31	0.31	0.00	0.25
27 - STORAGE	18,137.75 SF	0"	36	0	36	0.18	0.09	0.18	0.18	0.18	0.00	0.04
	19,064.55 SF		61	0	61	0.68	0.34	0.68	0.49	0.49	0.00	0.29

### PLUMBING FIXTURE COUNT SCHEDULE:

MIN. REQ.	WATER CLOSETS			LAVATORIES				DRINKING FOUNTAINS		
	W.C.	URINALS	FEMALE	MALE	FEMALE	MALE	FEMALE	MIN. REQ.	PROVIDED	
	PROVIDED	PROVIDED	MIN. REQ.	PROVIDED	MIN. REQ.	PROVIDED	MIN. REQ.	PROVIDED		
1	2	1	1	1	1	2	1	1	1	2

# LIFE SAFETY LEGEND

**EXIT TRAVEL DISTANCE**

TOTAL TRAVEL DISTANCE: TD1: 100'-0"

DEAD END LENGTH: DE1: 100'-0"

**EXIT DATA**

- EXIT NUMBER
- STAIR EGRESS CAPACITY
- DOOR EGRESS CAPACITY

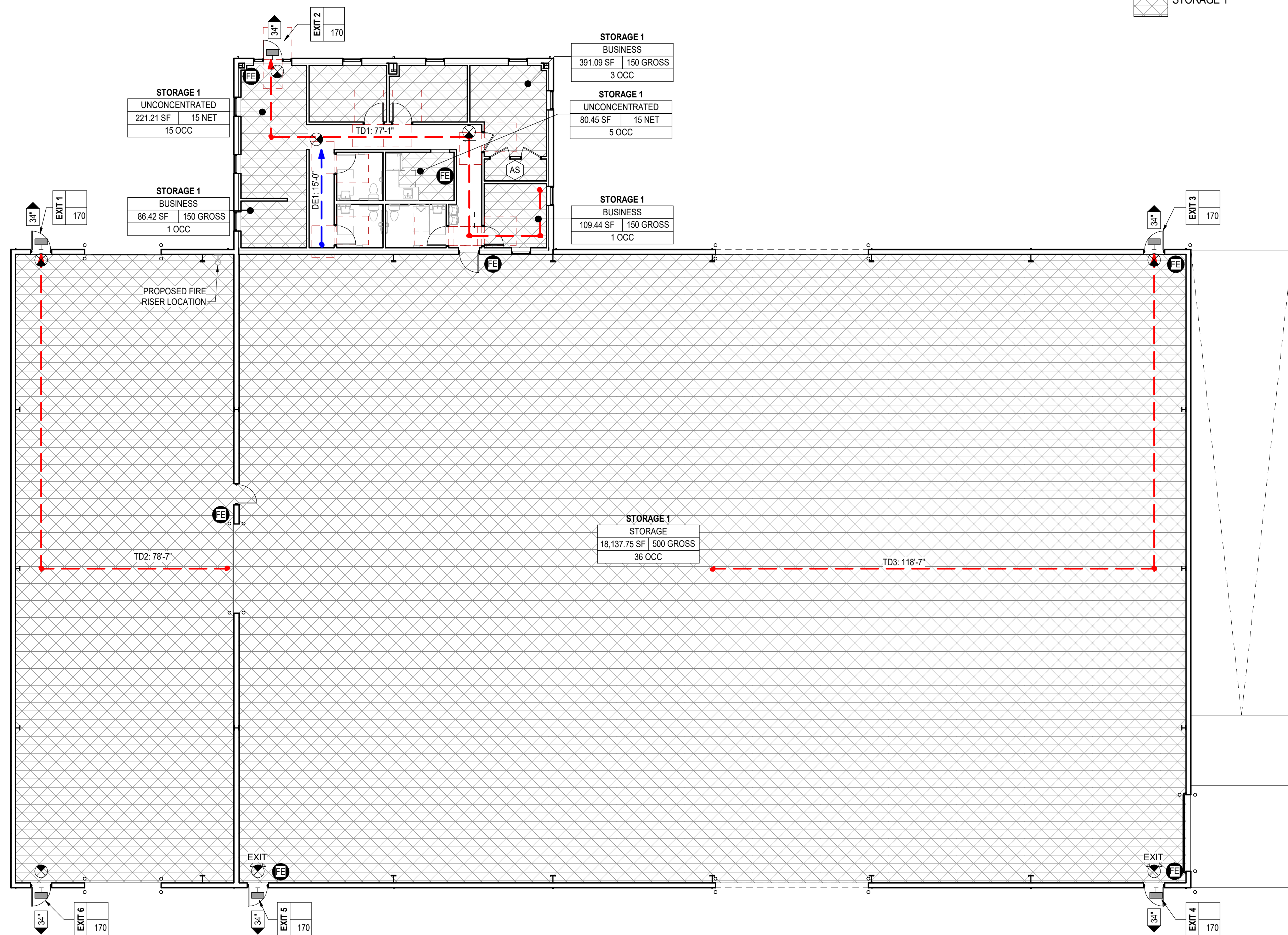
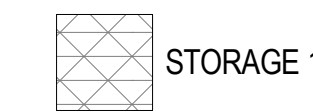
**DOOR EGRESS WIDTH**: 34"

**EXIT LIGHT** - SEE ELECTRICAL DRAWINGS

**FIRE EXTINGUISHER**

**LED EXTERIOR EMERGENCY LIGHT** @EXIT DOORS - SEE ELECTRICAL DRAWINGS

# OCCUPANCY LEGEND



# LIFE SAFETY KEYNOTES

AS  
ACCESSORY STORAGE  
NO SEPARATION: IBC 508.2.4

# TRAVEL DISTANCE

**NEW STORAGE OCCUPANCY [SPRINKLERED]**  
LSC CHAPTER 42, IBC CHAPTER 3  
GROUP S-1 (STORAGE) OCCUPANCY

**TRAVEL DISTANCE**  
400' MAX; LSC 42.2.6  
COMMON PATH 100'; LSC 42.2.5  
DEAD END LIMIT 100'; LSC 42.2.5

# OCCUPANCY USE SCHEDULE

FUNCTION/USE	AREA	FACTOR	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT OVERRIDE	DESIGN OCCUPANT LOAD
STORAGE 1 BUSINESS	391.09 SF	150 GROSS	3	0	3
BUSINESS	109.44 SF	150 GROSS	1	0	1
BUSINESS	86.42 SF	150 GROSS	1	0	1
STORAGE	38.19 SF	500 GROSS	0	0	0
STORAGE	18,137.75 SF	500 GROSS	36	0	36
UNCONCENTRATED	221.21 SF	15 NET	15	0	15
UNCONCENTRATED	80.45 SF	15 NET	5	0	5
<b>TOTAL OCCUPANT LOAD</b>	19,064.55 SF		61	0	61

**EGRESS CAPACITY:**

OCCUPANT TOTAL	NUMBER OF EXITS	HORIZONTAL: 0.2/OCC	STAIRWAY: 0.3/OCC
61	2	12'	205'
		MIN. REQ. PROVIDED	MIN. REQ. PROVIDED
		NA	NA



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**

257 HIGHWAY 81  
OXFORD, GA 30054  
WALTON COUNTY, GEORGIA

LIFE SAFETY PLAN

LS101

ISSUED FOR CONSTRUCTION

**1 LIFE SAFETY PLAN**  
LS101 | 3/32" = 1'-0"

PARTITION TYPES

PARTITION LEGEND

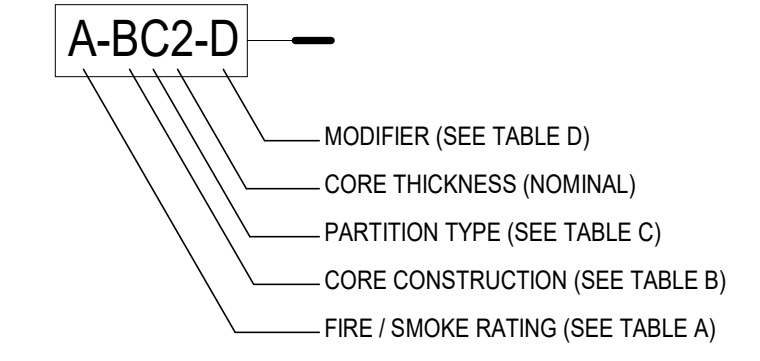


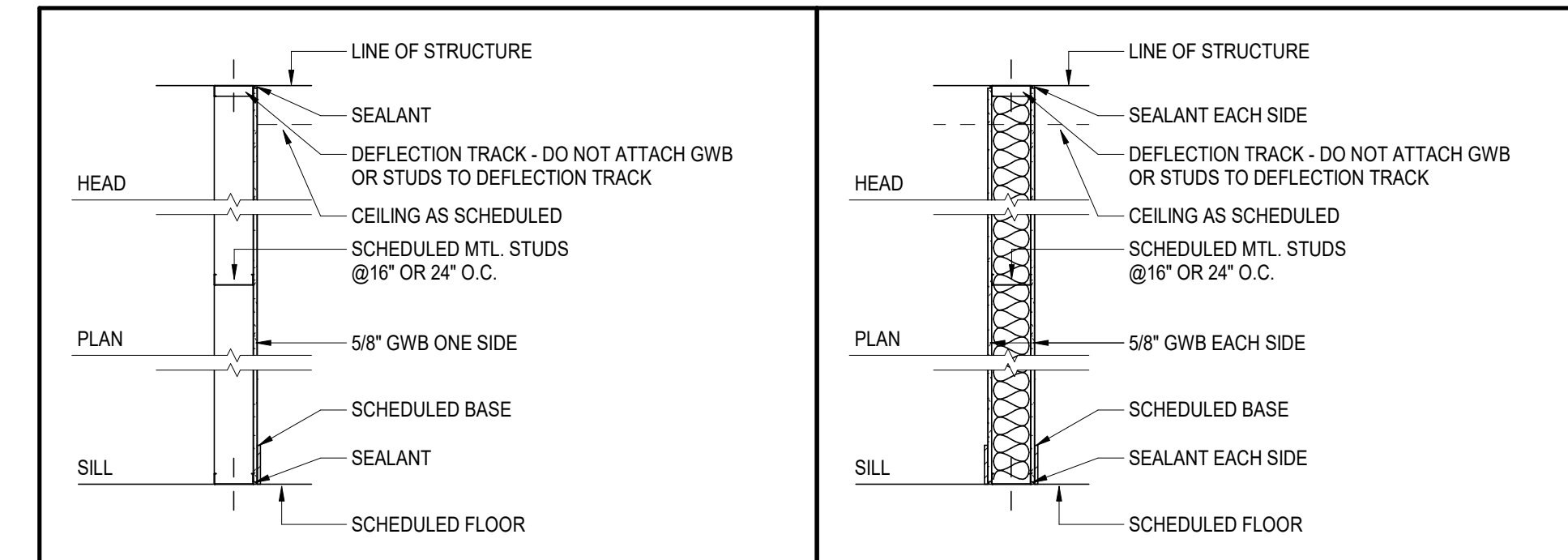
TABLE A - FIRE / SMOKE RATING		TABLE C - PARTITION TYPE	
0	NON-RATED CONSTRUCTION	A	(1) LAYER GYP. EACH SIDE
S	NON-RATED SMOKE PARTITION; FRAMING & GWB TO STRUCTURE ABOVE & SPACE AROUND PENETRATING ITEMS TO BE FILLED W/ APPROVED MATERIAL TO LIMIT PASSAGE OF SMOKE; COMPLY WITH 2018 IBC SECTION 710	B	(1) LAYER GYP. ONE SIDE; (2) LAYERS OTHER SIDE
		C	(2) LAYERS GYP. EACH SIDE
		D	(1) LAYER GYP. ONE SIDE
		E	(2) LAYERS GYP. ONE SIDE
		F	(1) LAYER GYP. EACH SIDE, RESILIENT CHANNEL
1	1-HOUR FIRE RATED; FRAMING & GWB TO STRUCTURE / THERMAL INSULATION PER UL REQUIREMENTS	G	(1) LAYER GYP. ONE SIDE; (2) LAYERS RESILIENT CHANNEL SIDE
		H	(2) LAYERS GYP. EACH SIDE, RESILIENT CHANNEL
2	2-HOUR FIRE RATED; FRAMING & GWB TO STRUCTURE / THERMAL INSULATION PER UL REQUIREMENTS	J	(1) LAYER GYP. EACH SIDE, SHEATHING
		K	(1) LAYER GYP. ONE SIDE; (2) LAYERS SHEATHING SIDE
3	3-HOUR FIRE RATED; FRAMING & GWB TO STRUCTURE / THERMAL INSULATION PER UL REQUIREMENTS	L	(2) LAYERS GYP. EACH SIDE, SHEATHING
		M	EXPOSED CORE
		P	(1) LAYER METAL WALL PANEL EACH SIDE

TABLE B - CORE CONSTRUCTION		TABLE D - MODIFIERS	
C	CONCRETE - CAST-IN-PLACE	A	PARTIAL HEIGHTS PARTITION / FRAMING & GWB TO X'-0" A.F.F. (SEE BLDG. DETAILS)
D	DEMISING	B	FRAMING & GWB TO FINISHED CEILING / PROVIDE BRACING AS REQUIRED
L	SPECIAL	C	'B' W/ 3" SOUND ATTENUATION BLANKETS (SAB) & 4" WIDE SAB ABOVE CEILING CENTERED ON PARTITION
M	METAL	D	FRAMING & GWB TO 4" ABOVE CEILING / PROVIDE BRACING AS REQ. OR EXTEND STUDS TO STRUCTURE ABOVE
P	PRE-CAST CONCRETE	E	'D' W/ 3" SOUND ATTENUATION BLANKETS (SAB) & 4" WIDE SAB ABOVE CEILING CENTERED ON PARTITION
S	SHAFT LINER	F	FRAMING & GWB TO STRUCTURE / 3" SOUND ATTENUATION BLANKETS, U.N.O.
T	STONE		
U	MASONRY UNIT		
W	WOOD		
Z	Z-FURRING		

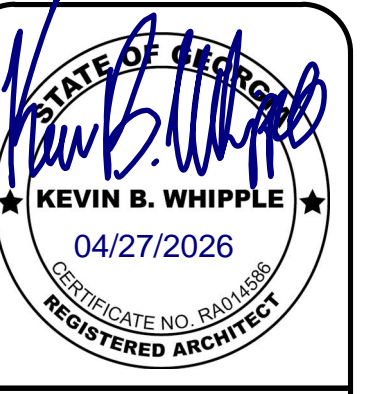
PARTITION NOTES

- CONTRACTOR SHALL ADJUST STUD GAUGE AND/OR SPACING AND BRACE AS NECESSARY SO AS NOT TO EXCEED L240 DESIGN CRITERIA.
- PROVIDE IN-WALL BLOCKING FOR MILLWORK, ARTWORK, FURNISHINGS, HARDWARE, WALL STOPS, TOILET ACCESSORIES, GRAB BARS, CLOSET RODS, HANDRAILS, WALL BUMPERS, MODULAR OFFICE WALLS, ETC.
- REFER TO STRUCTURE FOR BEARING / NON-BEARING CONDITION WHEN THERE IS DISCREPANCY.
- REFER TO STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION ON STRUCTURAL REINFORCEMENT OF WALLS INCLUDING BUT NOT LIMITED TO PARTIAL HEIGHT WALLS, BRACING, REINFORCING, BOND BEAMS AND GROUT FILLING OF C.M.U. CORES.
- AT ALL RESTROOMS, OFFICES AND SIMILAR SPACES, PROVIDE BACKLOADED SCHEDULED CEILING W/ SOUND BATT INSULATION A MINIMUM OF 4" - 0" ALONG EACH SIDE OF SCHEDULED PARTITIONS (TYP.)
- STAGGER ELECTRICAL OUTLETS 12" MINIMUM AT ALL PARTITIONS.
- ALL VERTICAL PIPING EXPOSED IN ROOMS SHALL BE FURRED WITH SAME MATERIAL AS ADJACENT WALLS. EXCEPTIONS ARE: MECHANICAL ROOMS, ELECTRICAL ROOMS, TELEPHONE ROOMS.
- METAL STUD PARTITIONS BEHIND ALL PLUMBING AND OTHER FIXTURES SHALL BE BRACED TO STRUCTURE WHERE REQUIRED TO SUPPORT THE EQUIPMENT PROVIDED.



MD						MA					
WALL TYPE	FIRE RATING	STC RATING	STUD WIDTH	ASSEMBLED WIDTH	TESTED ASSEMBLY	WALL TYPE	FIRE RATING	STC RATING	STUD WIDTH	ASSEMBLED WIDTH	TESTED ASSEMBLY
0-MD4	0	-	3 5/8"	4 1/4"	-	0-MA4	0	-	3 5/8"	4 7/8"	-
						0-MA6	0	-	6"	7 1/4"	-

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 Phone: (770) 345-2579



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**DRYWALL WAREHOUSE HWY 81**  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

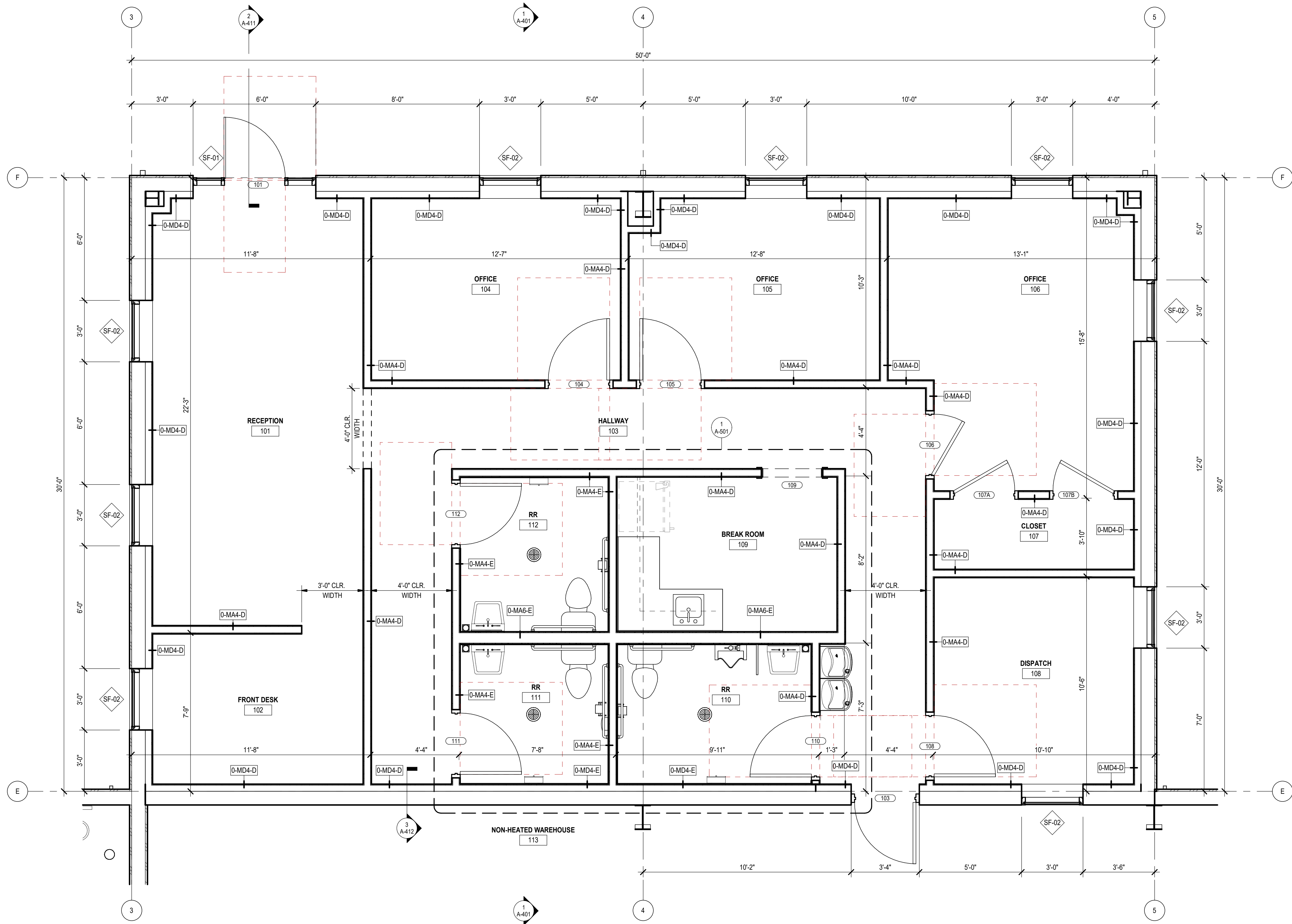
METAL STUD PARTITION TYPES

**G-220**

ISSUED FOR CONSTRUCTION







1 ENLARGED OFFICE PLAN  
 A-101-A | 3/8" = 1'-0"



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**DRYWALL WAREHOUSE HWY 81**  
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 WALTON COUNTY, GEORGIA

ENLARGED OFFICE PLAN

**A-101-A**

ISSUED FOR CONSTRUCTION

### ROOF PLAN KEYNOTES

- ① 26 GA PRE-ENGINEERED EAVE GUTTER (MIN 5'X5") AND DOWNSPOUTS (MIN 2'X3") BY PEMB SUPPLIER
- ② STANDING SEAM ROOF OVER PURLINES, ROOF ASSEMBLIES PROVIDED BY PEMB SUPPLIER
- ③ PRE-FINISHED TIE-ROD ALUMINUM AWNING, BY PEMB SUPPLIER
- ④ PRE-FINISHED METAL RAKE TRIM, PROVIDED BY PEMB SUPPLIER

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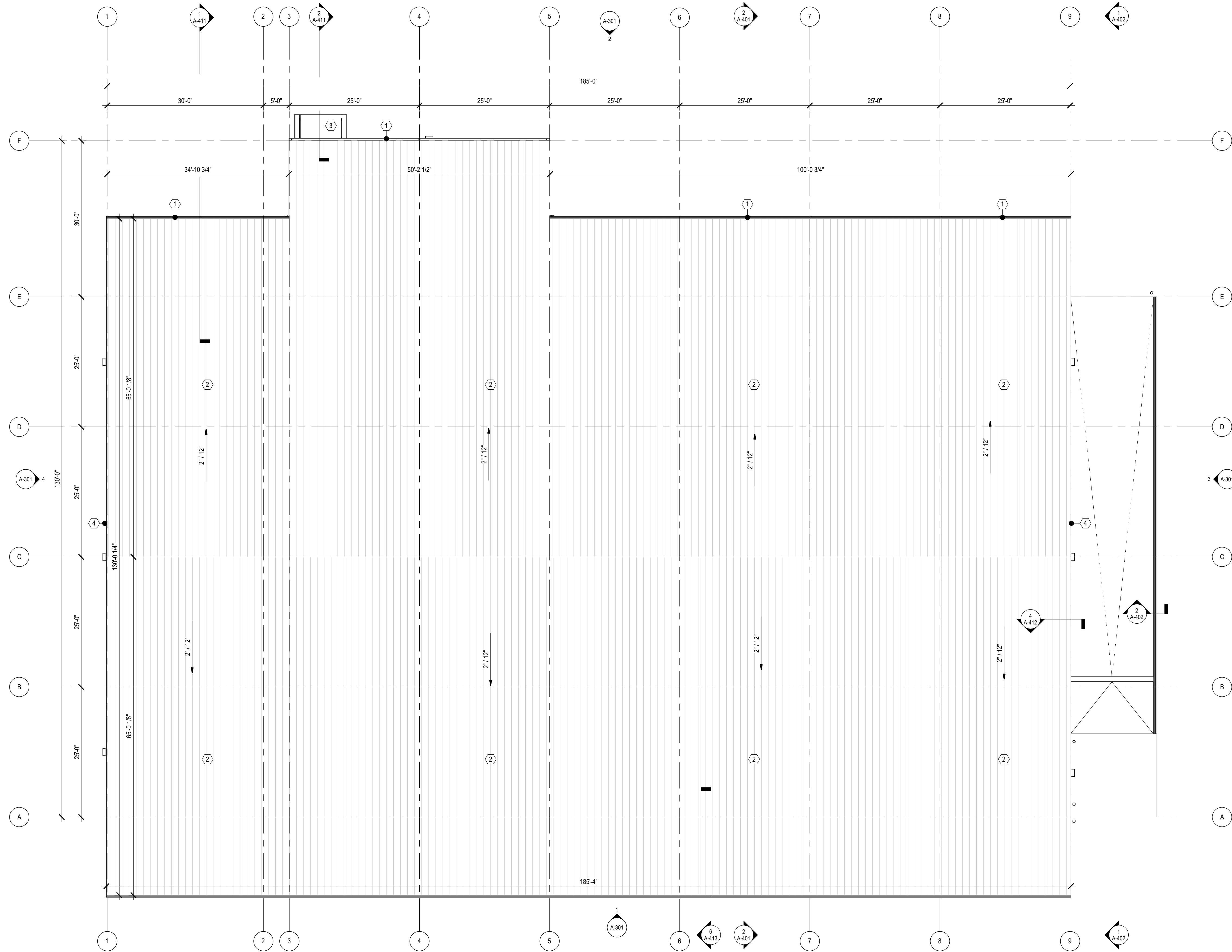
**DRYWALL WAREHOUSE HWY 81**

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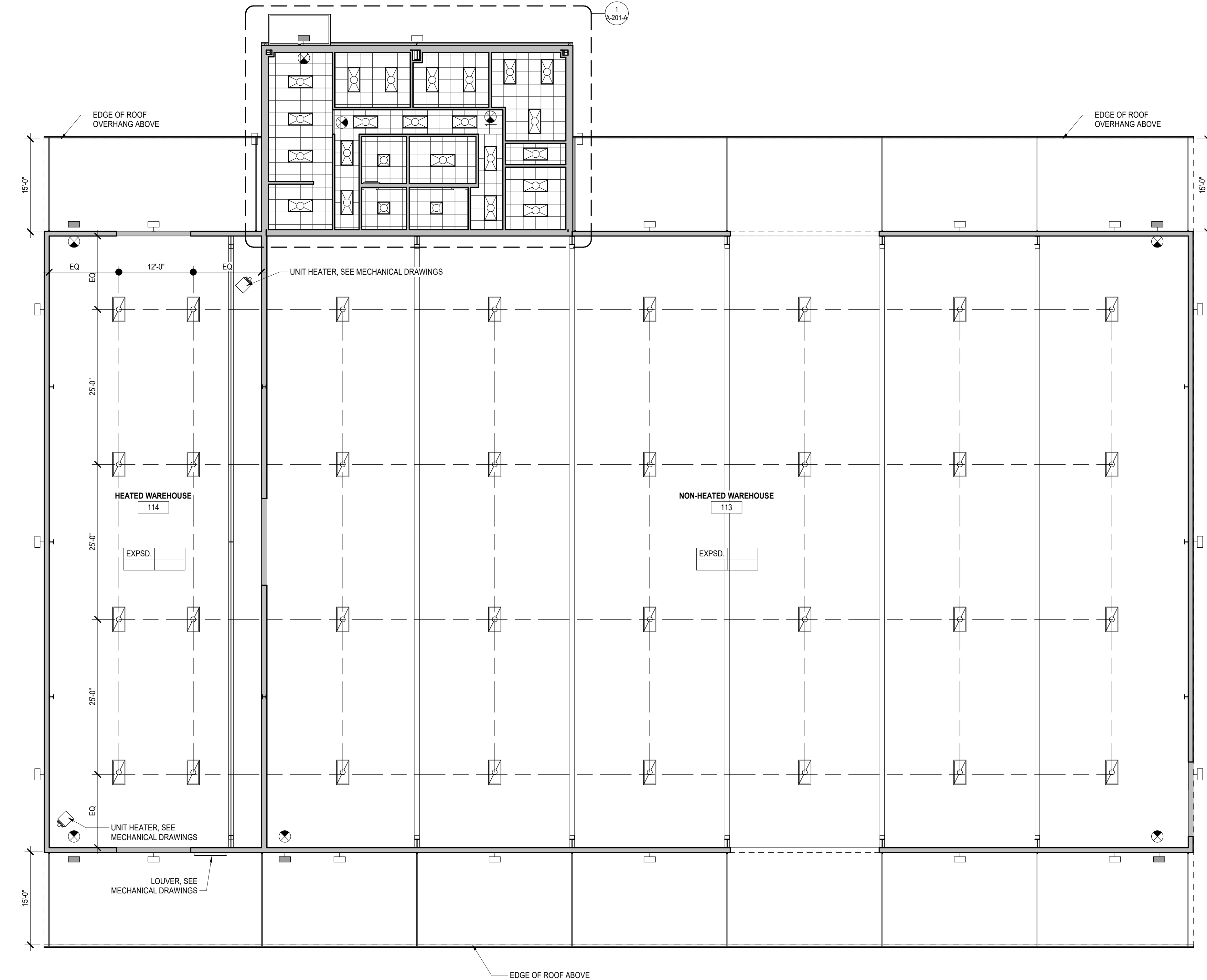
ROOF PLAN

A-122

ISSUED FOR CONSTRUCTION

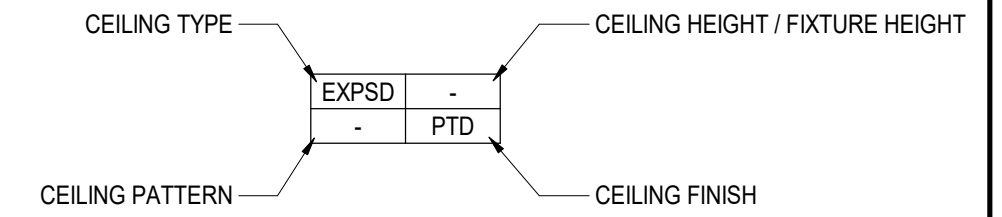


**1 ROOF PLAN**  
 A-122 | 1" = 10'-0"


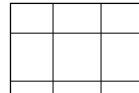


1 REFLECTED CEILING PLAN  
A-201 | 1" = 10'-0"

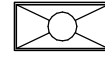
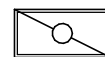

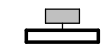


### RCP TAG



### CEILING TYPE LEGEND

-  EXPSD. EXPOSED TO STRUCTURE ABOVE
-  ACT-01 24" X 24" ACOUSTICAL CEILING W/ PRE-FINISHED WHITE GRID SYSTEM CENTER CEILING GRID EACH WAY IN SPACE AS SHOWN. U.N.O. @ 9'-0" UNLESS NOTED OTHERWISE. PROVIDE R-19 BATT INSULATION ABOVE ALL CEILING TILES

### LIGHTING FIXTURES LEGEND

-  2X4 LED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  2X2 LED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  2X4 LED HIGH BAY LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  EXTERIOR WALL PACK LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  EXTERIOR WALL PACK LIGHT FIXTURE OVER EGRESS DOORS - SEE ELECTRICAL DRAWINGS
-  EXIT LIGHT - SEE ELECTRICAL DRAWINGS
-  WALL MOUNTED VANITY LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

### RCP NOTES

1. THIS DRAWING IS FOR GRAPHICAL FIXTURE LOCATION ONLY. SEE ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE
2. CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR GENERAL LIGHTING FOR PRICING IN ADDITION TO DECORATIVE LIGHTING AS SHOWN ON THIS PLAN.
3. U.N.O. ALL CEILING LIGHT FIXTURES ARE TO BE CENTERED EACH WAY IN CEILING TILES AND SPACES.
4. REFER TO MECHANICAL DRAWINGS FOR ALL AIR TERMINAL INFORMATION FOR GMP PRICING.
5. SEE INTERIOR DRAWINGS FOR ALL CEILING FINISHES.

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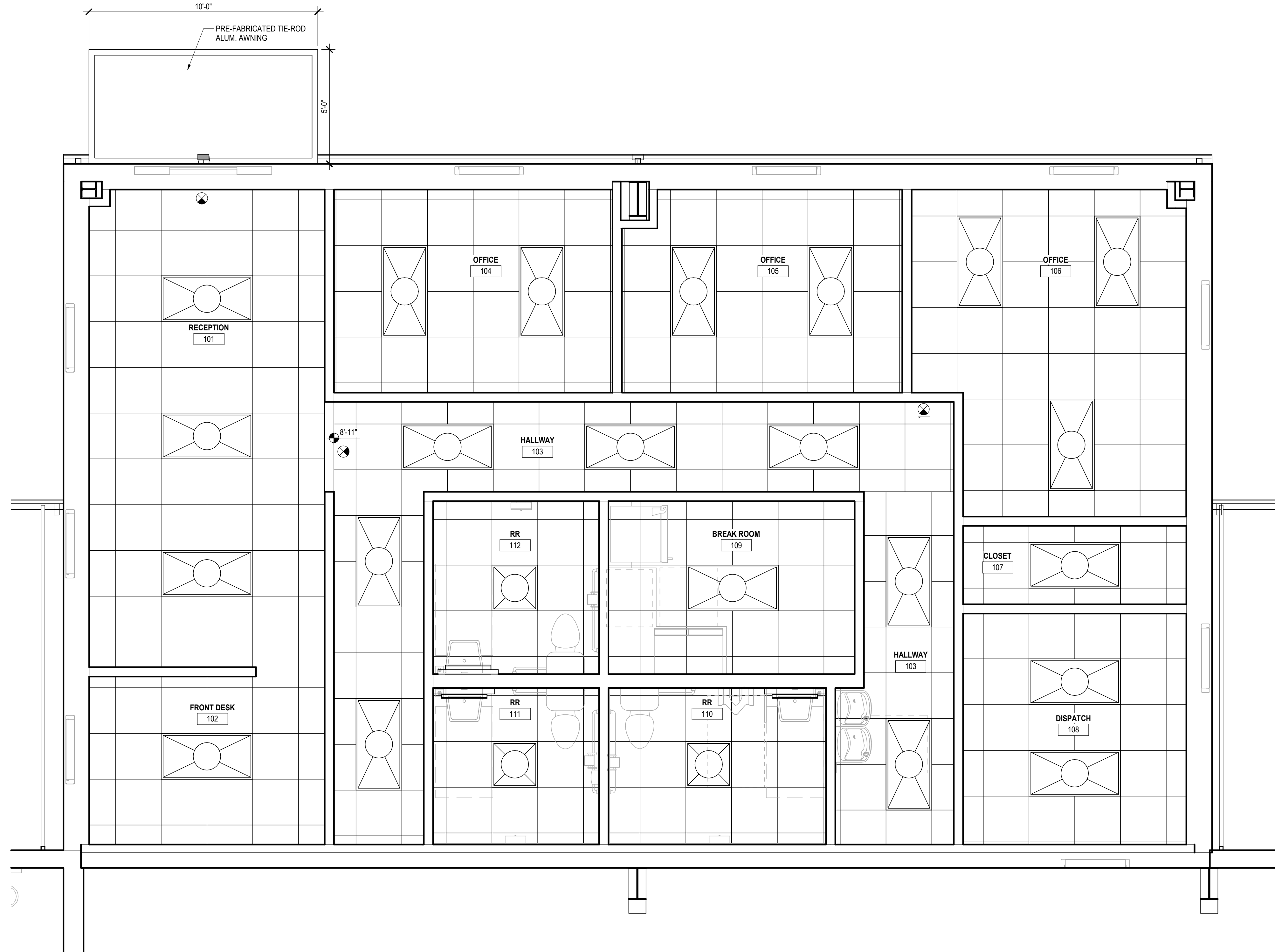
**DRYWALL WAREHOUSE HWY 81**

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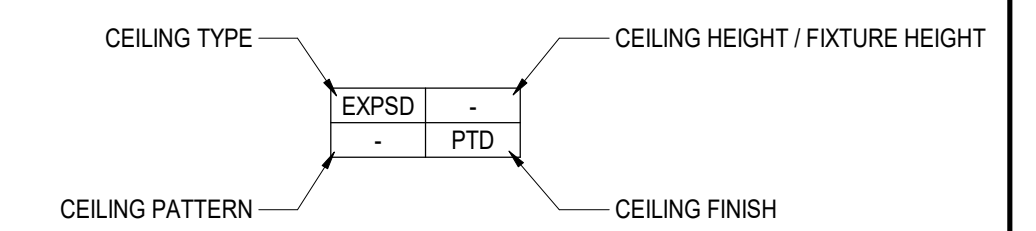
REFLECTED  
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A-201


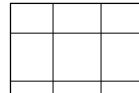
ISSUED FOR  
CONSTRUCTION



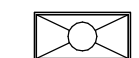

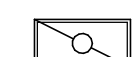



RCP TAG



CEILING TYPE LEGEND

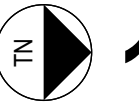
-  EXPSD. EXPOSED TO STRUCTURE ABOVE
-  ACT-01 24" X 24" ACOUSTICAL CEILING W/ PRE-FINISHED WHITE GRID SYSTEM CENTER CEILING GRID EACH WAY IN SPACE AS SHOWN. U.N.O. @ 9'-0" UNLESS NOTED OTHERWISE. PROVIDE R-19 BATT INSULATION ABOVE ALL CEILING TILES

LIGHTING FIXTURES LEGEND

-  2X4 LED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  2X2 LED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  2X4 LED HIGH BAY LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  EXTERIOR WALL PACK LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS
-  EXTERIOR WALL PACK LIGHT FIXTURE OVER EGRESS DOORS - SEE ELECTRICAL DRAWINGS
-  EXIT LIGHT - SEE ELECTRICAL DRAWINGS
-  WALL MOUNTED VANITY LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

RCP NOTES

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2. CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR GENERAL LIGHTING FOR PRICING IN ADDITION TO DECORATIVE LIGHTING AS SHOWN ON THIS PLAN.
3. U.N.O. ALL CEILING LIGHT FIXTURES ARE TO BE CENTERED EACH WAY IN CEILING TILES AND SPACES.
4. REFER TO MECHANICAL DRAWINGS FOR ALL AIR TERMINAL INFORMATION FOR GMP PRICING.
5. SEE INTERIOR DRAWINGS FOR ALL CEILING FINISHES.

 **1** ENLARGED OFFICE REFLECTED CEILING PLAN  
A-201-A | 3/8" = 1'-0"



PROJECT NUMBER: 25-040

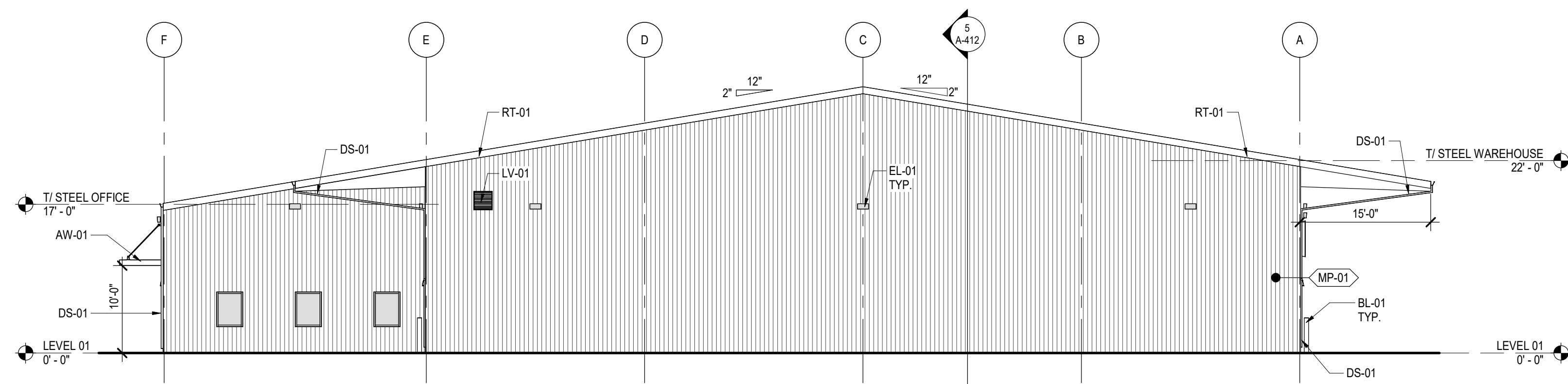
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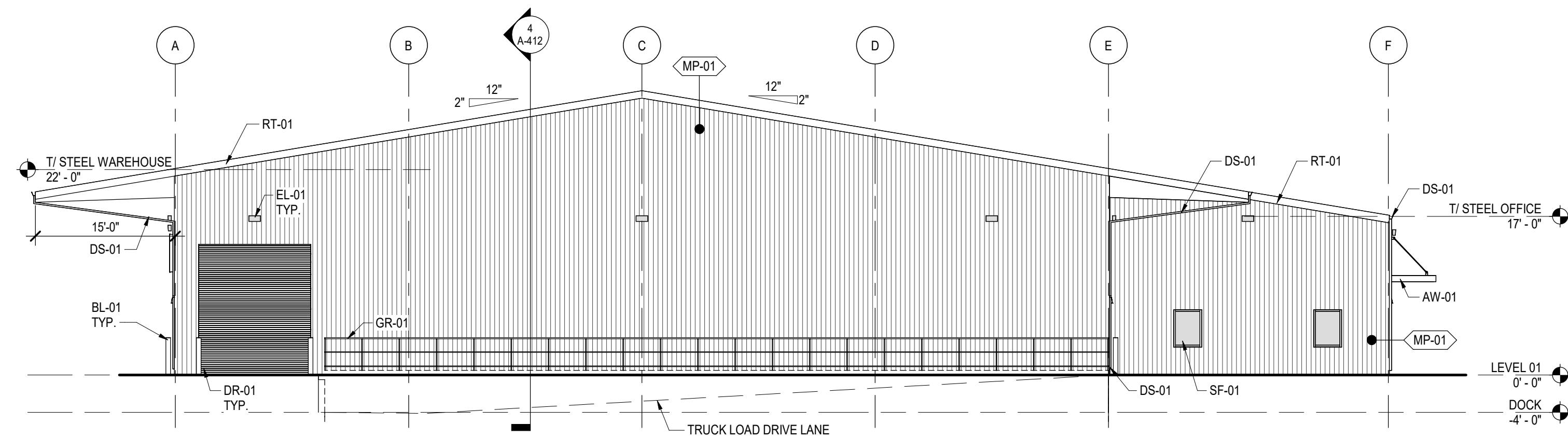
ENLARGED OFFICE REFLECTED CEILING PLAN

**A-201-A**

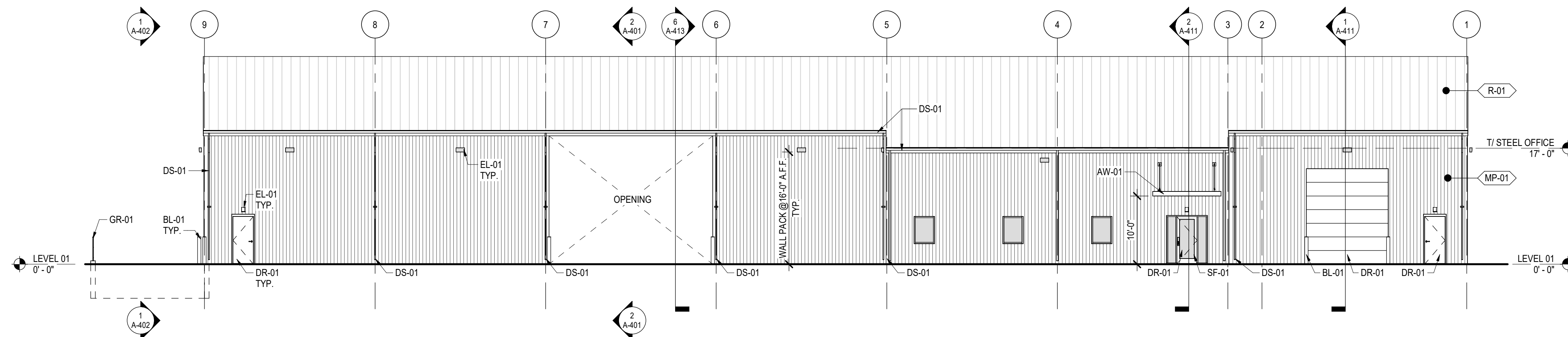
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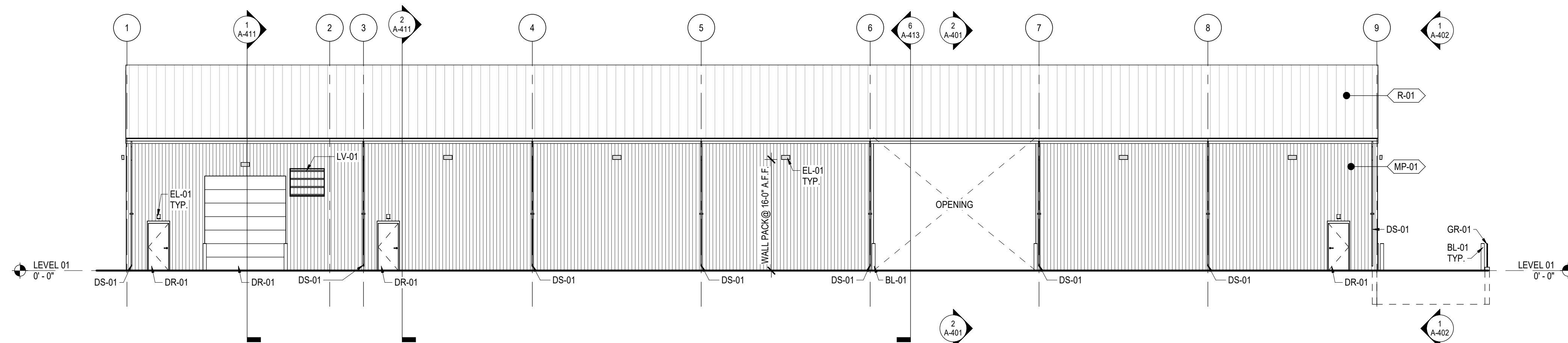
**4 SOUTH ELEVATION**  
A-301 | 3/32" = 1'-0"



**3 NORTH ELEVATION**  
A-301 | 3/32" = 1'-0"



**2 WEST ELEVATION**  
A-301 | 3/32" = 1'-0"



**1 EAST ELEVATION**  
A-301 | 3/32" = 1'-0"

**EXTERIOR FINISH LEGEND**

PATTERN	TAG	MATERIAL
	MP-01	PRE-FINISHED VERTICAL METAL WALL PANEL B.O.D.: PBR OR EQUAL
	R-01	24GA STANDING SEAM METAL ROOFING SYSTEM

**EXTERIOR FINISH KEYNOTES**

TAG	MATERIAL
AW-01	PRE-FABRICATED ALUMINUM TIE-ROD AWNING, PROVIDED BY PEMB SUPPLIER
BL-01	6" DIA. BOLLARD, PAINT TRAFFIC YELLOW
DR-01	EXTERIOR DOOR - SEE DOOR SCHEDULE
DS-01	PRE-FINISHED ALUMINUM DOWNSPOUT AND GUTTER BY PEMB, SURFACE DRAIN TO GRADE
EL-01	EXTERIOR LIGHT FIXTURE - SEE ELECTRICAL SCHEDULE
GR-01	42" HIGH GALVANIZED STEEL GUARDRAIL
LV-01	LOUVER, SEE MECHANICAL DRAWINGS
RT-01	PRE-FINISHED METAL RAKE TRIM, PROVIDED BY PEMB SUPPLIER
SF-01	EXTERIOR STOREFRONT SYSTEM - SEE STOREFRONT ELEVATION

**ELEVATION NOTES**

- COORDINATE BUILDING SIGNAGE LOCATIONS AND SIGNAGE WITH OWNER, REFER TO ELECTRICAL DRAWINGS FOR SCHEDULE AND LOCATION.
- MATERIAL MANUFACTURERS AND COLORS INDICATED ON DRAWINGS ARE SUBJECT TO CHANGE DURING THE CONSTRUCTION PROCESS. ANY DEVIATIONS FROM APPROVED PLANS SHALL BE SUBMITTED FOR APPROVAL.

**CSC DESIGN, INC.**  
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*Kevin B. Whipple*  
**KEVIN B. WHIPPLE**  
04/27/2026  
REGISTERED ARCHITECT

PROJECT NUMBER: 25-040

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257 HIGHWAY 81  
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EXTERIOR ELEVATIONS

**A-301**  
ISSUED FOR CONSTRUCTION



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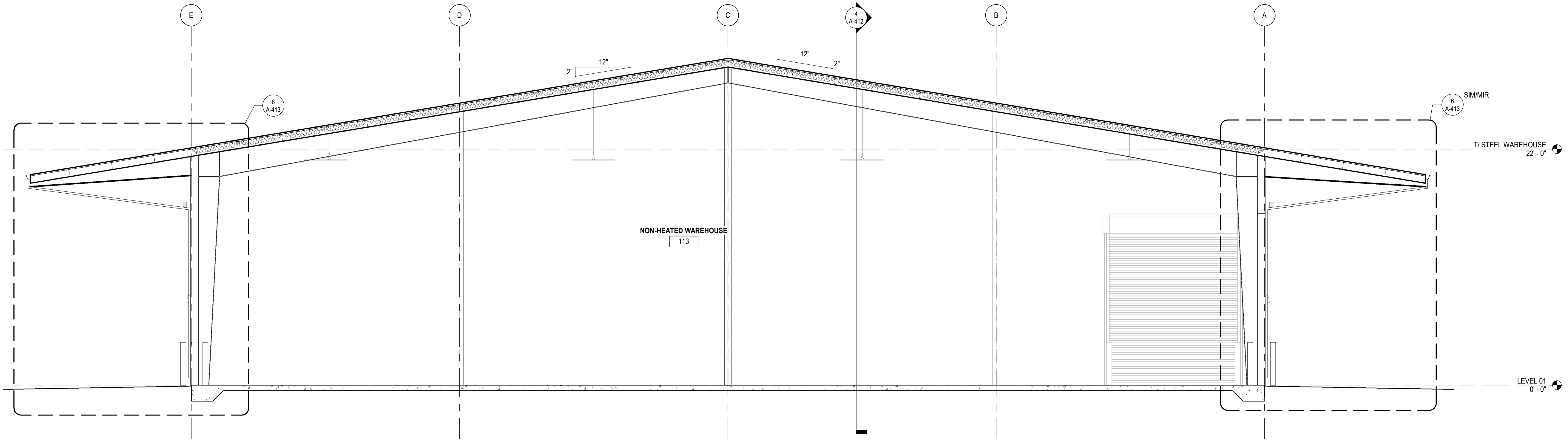
# DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81  
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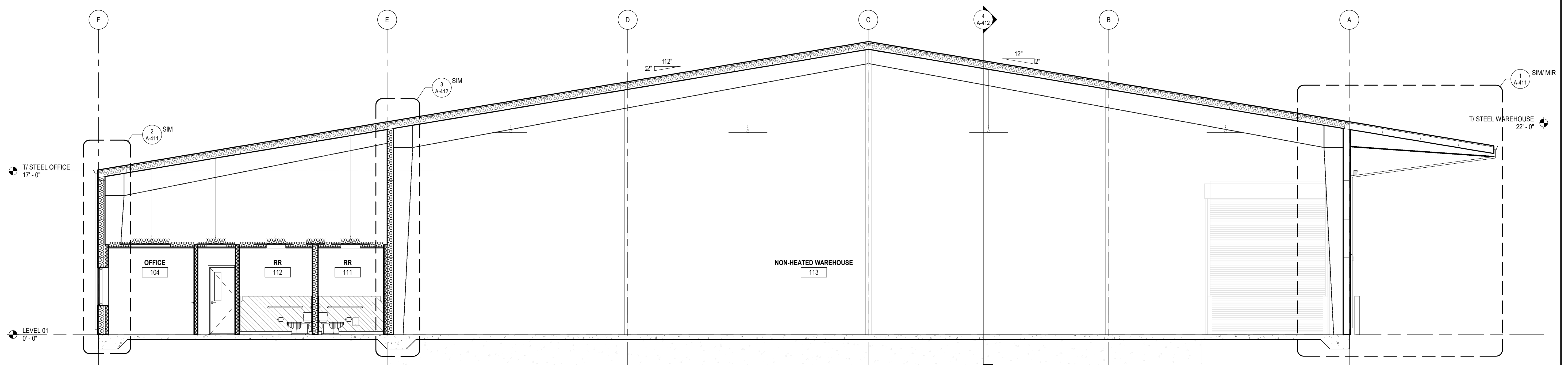
BUILDING SECTIONS

## A-401

ISSUED FOR CONSTRUCTION



**2** BUILDING SECTION @ WAREHOUSE  
A-401 | 3/16" = 1'-0"



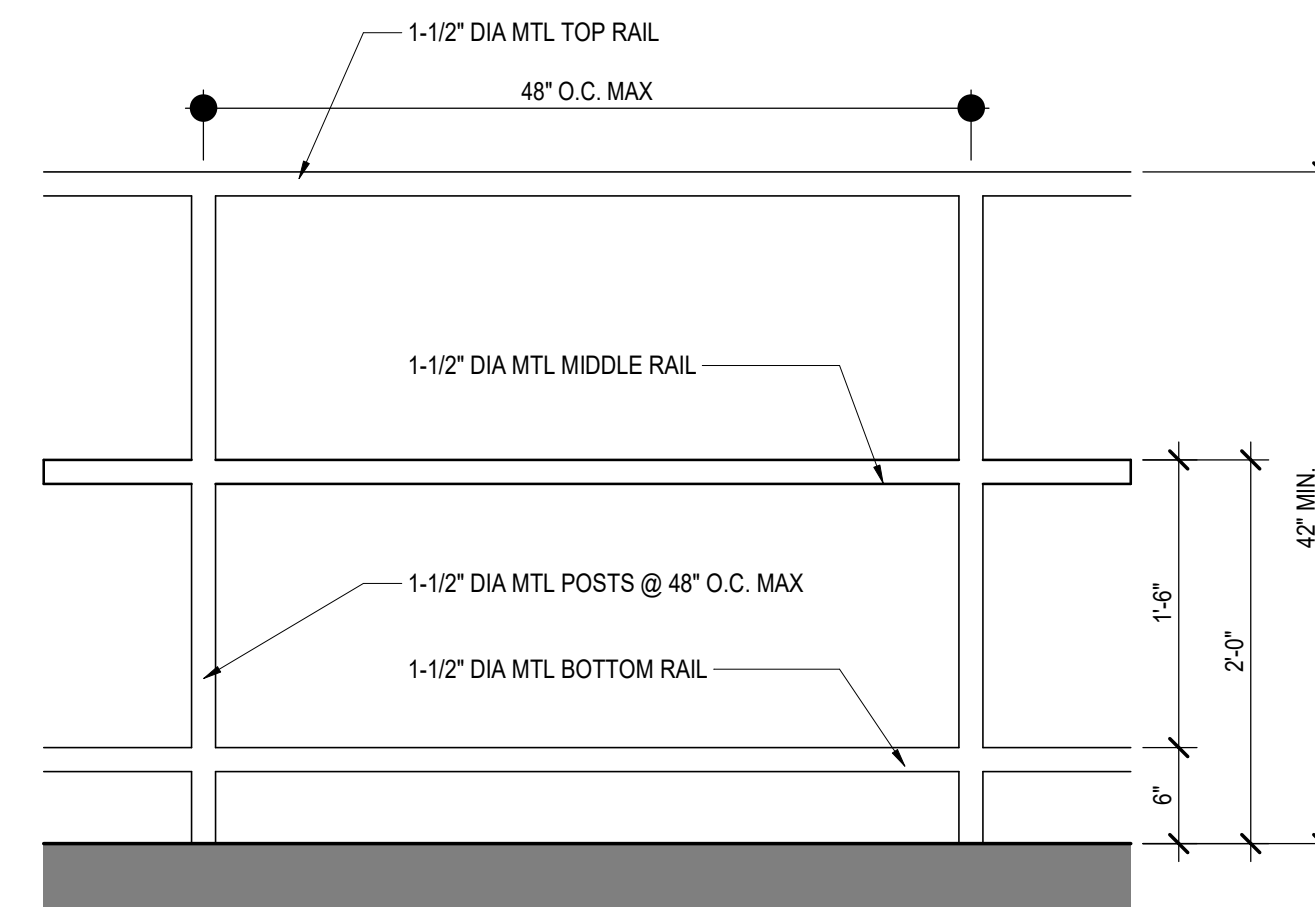
**1** BUILDING SECTION @ OFFICE & WAREHOUSE  
A-401 | 3/16" = 1'-0"

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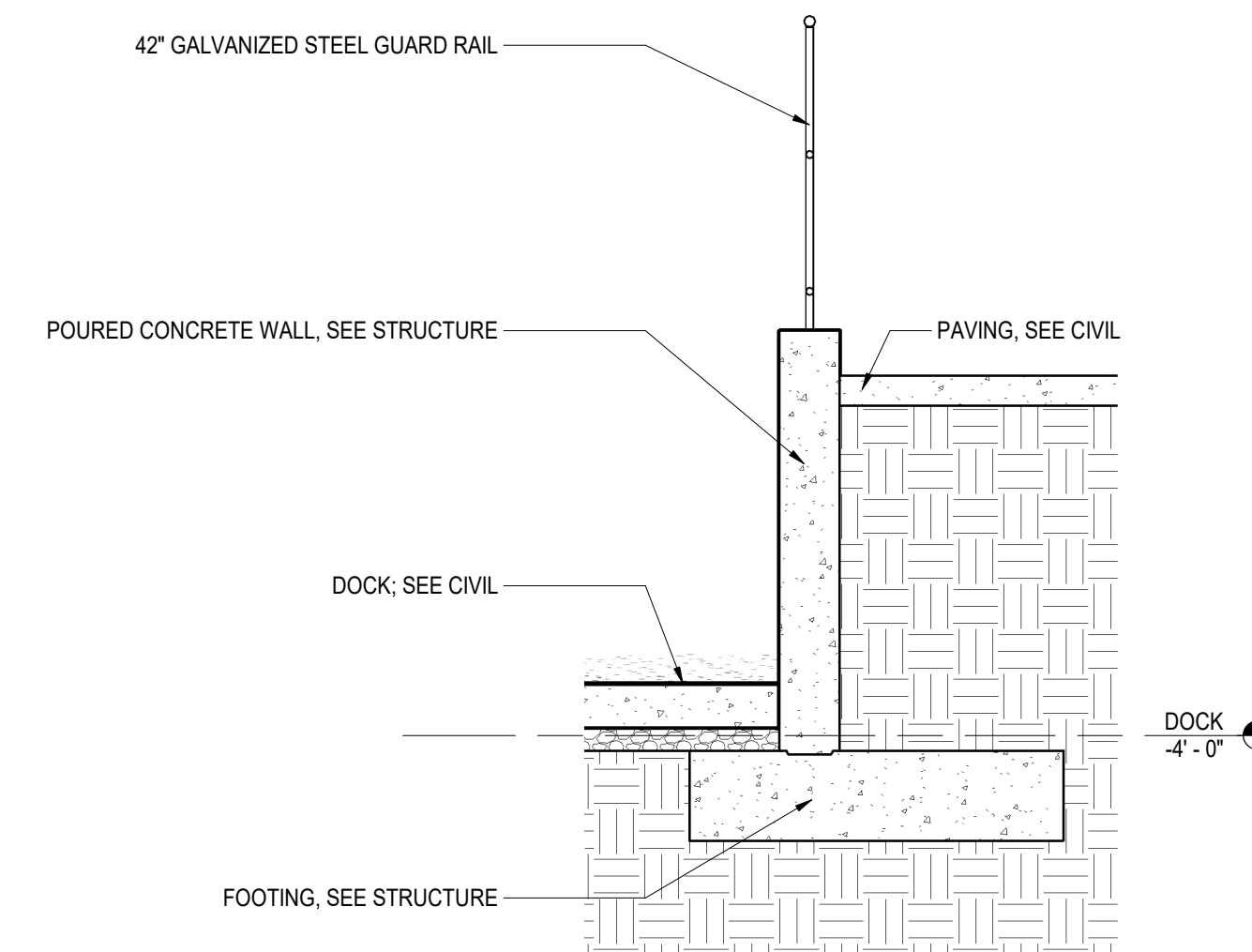


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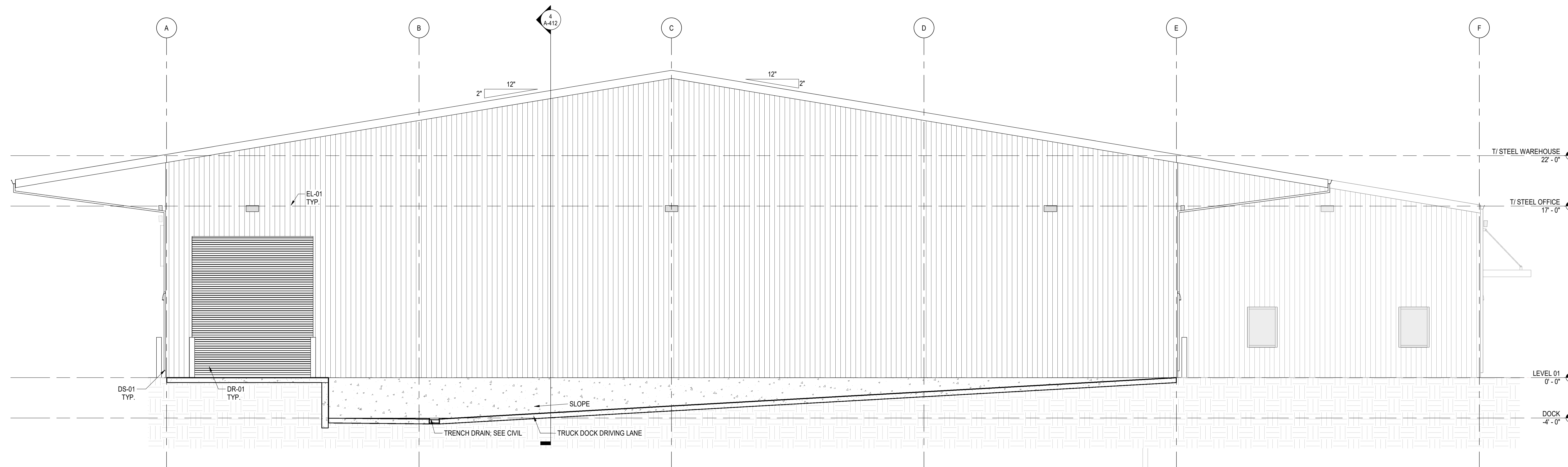
REVISIONS	NO.	DATE	ISSUE



**4 TYP. GUARDRAIL**  
 A-402 | 1" = 1'-0"



**2 RAILING @ DOCK AREA**  
 A-402 | 1/2" = 1'-0"



**1 BUILDING SECTION @ DOCK AREA**  
 A-402 | 3/16" = 1'-0"

**DRYWALL WAREHOUSE HWY 81**

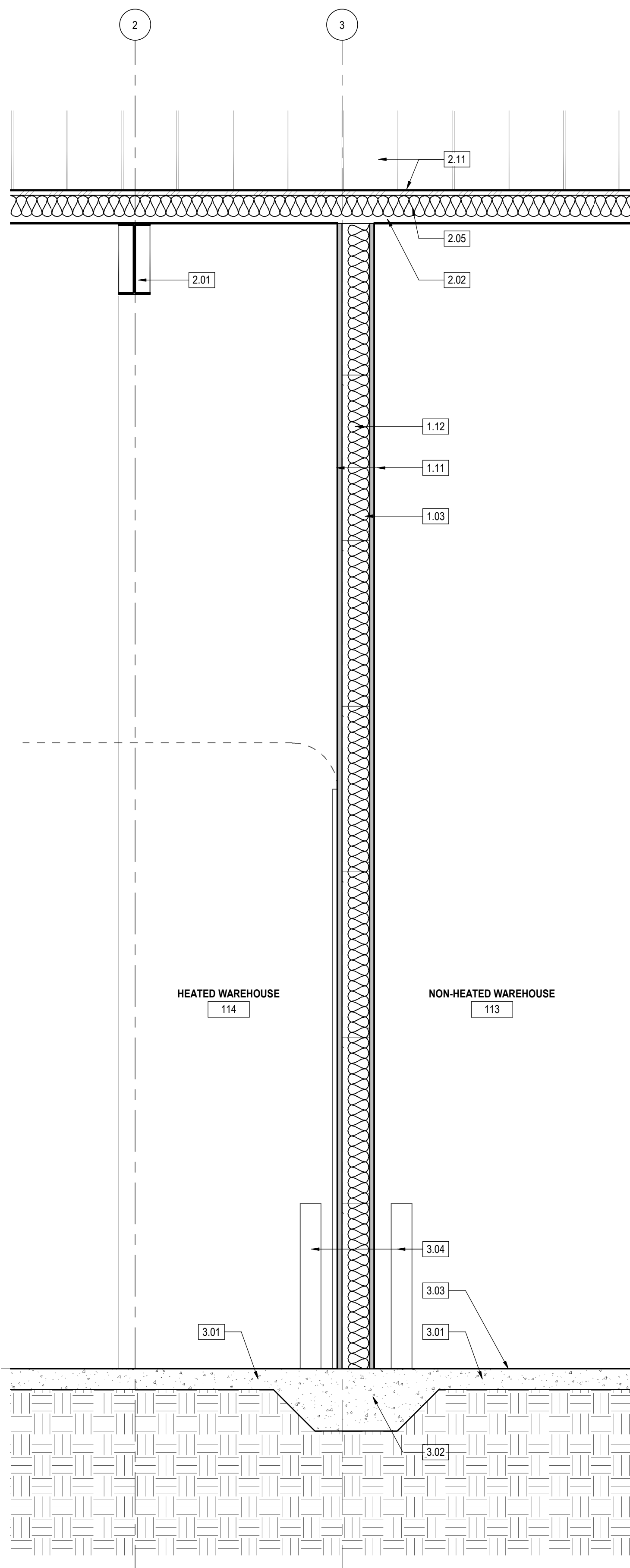
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BUILDING SECTIONS

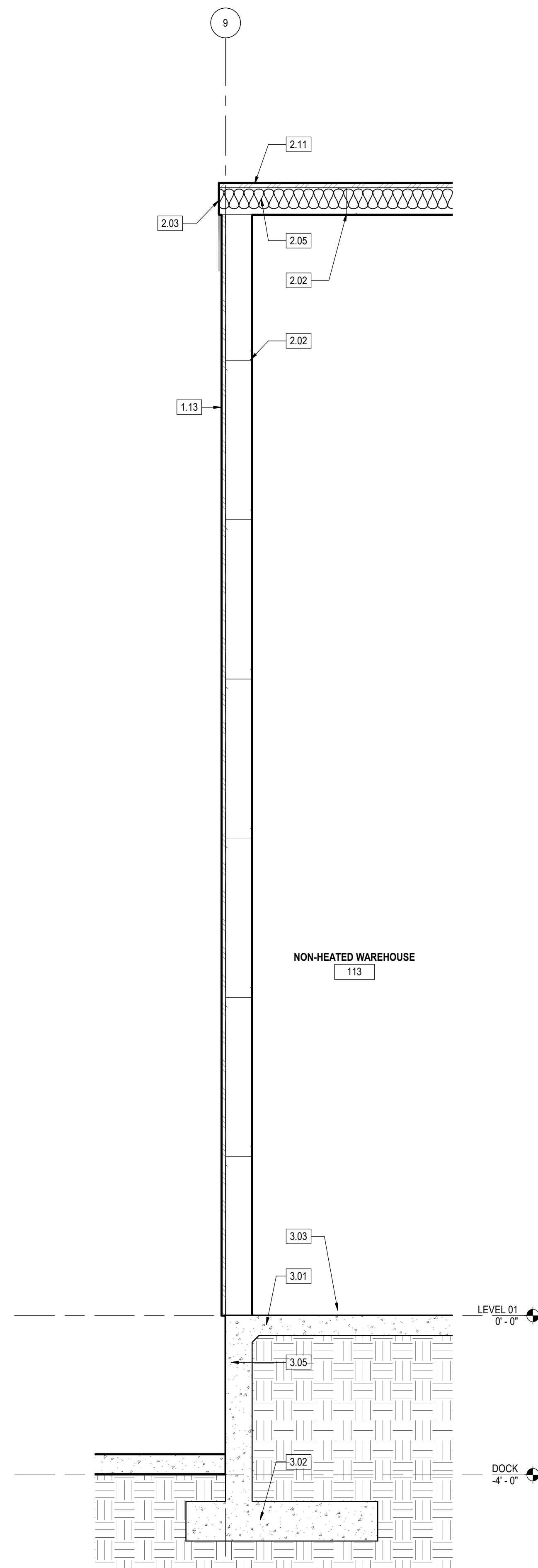
A-402

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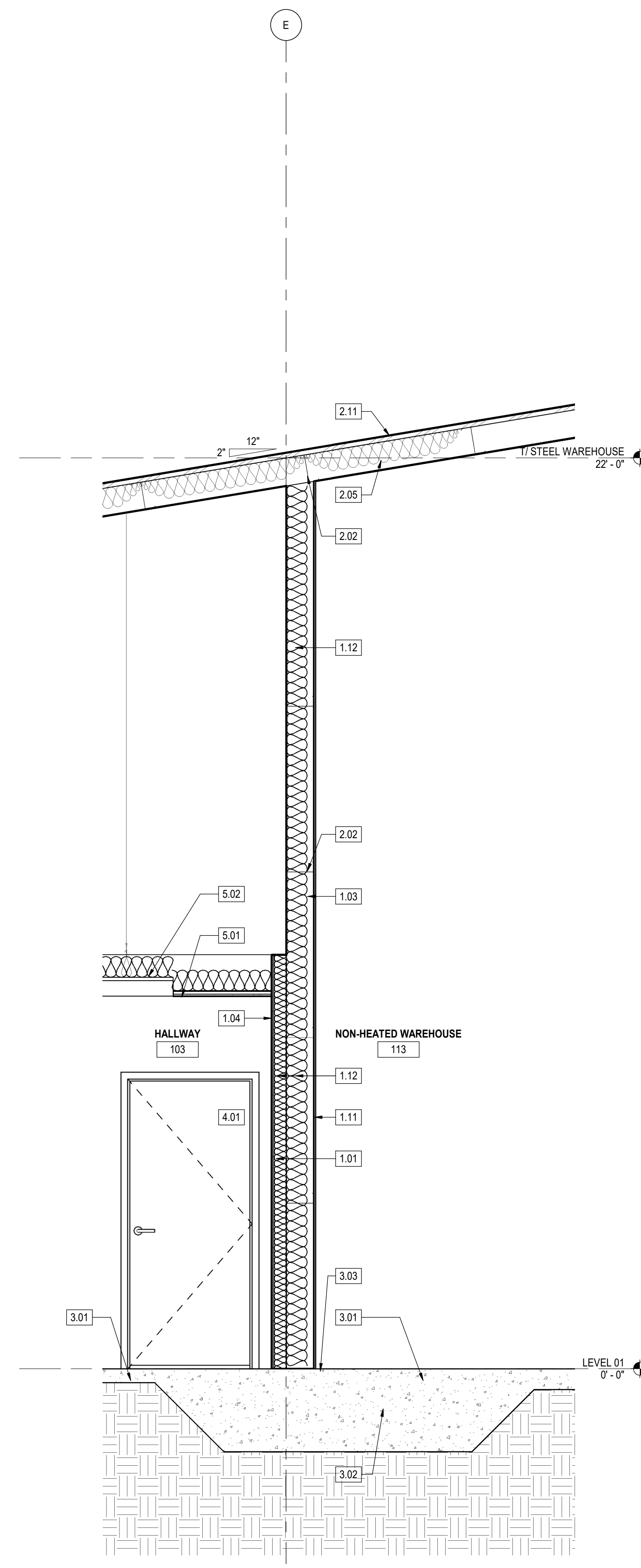




**5 WALL SECTION 5**  
A-412 | 1/2" = 1'-0"



**4 WALL SECTION 4**  
A-412 | 1/2" = 1'-0"



**3 WALL SECTION 3**  
A-412 | 1/2" = 1'-0"

**WALL SECTION KEYNOTES**

- 1.01 3 5/8" MTL. STUDS @ 16" O.C.
- 1.02 6" MTL. STUDS @ 16" O.C.
- 1.03 8" GIRT WALL, PROVIDED BY PEMB SUPPLIER
- 1.04 5/8" GYP. BOARD
- 1.11 FULL HEIGHT LINER PANEL @ WAREHOUSE SIDE TO STRUCTURE ABOVE, PROVIDED BY PEMB SUPPLIER
- 1.12 R-19 INSULATION
- 1.13 PBR OR EQUAL PANEL WALL SYSTEM, 26 GA FINISH AS SELECTED FROM MANUFACTURER STANDARD COLOR LINE - SEE ELEVATION
- 1.14 PRE-FABRICATED TIE ROD CANOPY, PROVIDE BLOCKING AS REQUIRED, PROVIDED BY PEMB SUPPLIER
  
- 2.01 PEMB MAIN FRAME - SEE PEMB DRAWINGS
- 2.02 8" Z-PURLINS - SEE PEMB DRAWINGS
- 2.03 RAKE TRIM, PROVIDED BY PEMB SUPPLIER
- 2.04 GUTTER AND DOWNSPOUTS, TYP; PROVIDED BY PEMB SUPPLIER
- 2.05 THERMAL BLOCKS AND R-19 + R-19 DOUBLE LAYER INSULATION, PROVIDED BY PEMB SUPPLIER
- 2.11 STANDING SEAM METAL ROOF, PROVIDED BY PEMB SUPPLIER
  
- 3.01 6" @ WAREHOUSE AND 4" @ OFFICE CONC. SLAB ON GRADE - SEE STRUCTURAL DRAWINGS
- 3.02 CONCRETE FOUNDATION / FOOTING WITH VAPOR BARRIER, SEE STRUCTURAL DRAWINGS
- 3.03 SCHEDULED FLOORING
- 3.04 6" DIA. PIPE BOLLARD, TYP; PAINT TRAFFIC YELLOW - SEE STRUCTURAL DRAWINGS
- 3.05 POURED CONCRETE WALL @ DOCK LEVEL - SEE STRUCTURAL DRAWINGS
- 3.06 EXTERIOR PAVING, SEE CIVIL DRAWINGS
  
- 4.01 SCHEDULED DOOR
- 4.02 SCHEDULED WINDOW
- 4.03 SCHEDULED STOREFRONT SYSTEM
- 4.04 WALL OPENING TO STRUCTURE ABOVE
- 4.05 8" GIRT WALL BEYOND
  
- 5.01 SCHEDULED CEILING W/ R-19 SOUND BATT INSULATION ABOVE
- 5.02 SCHEDULED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS



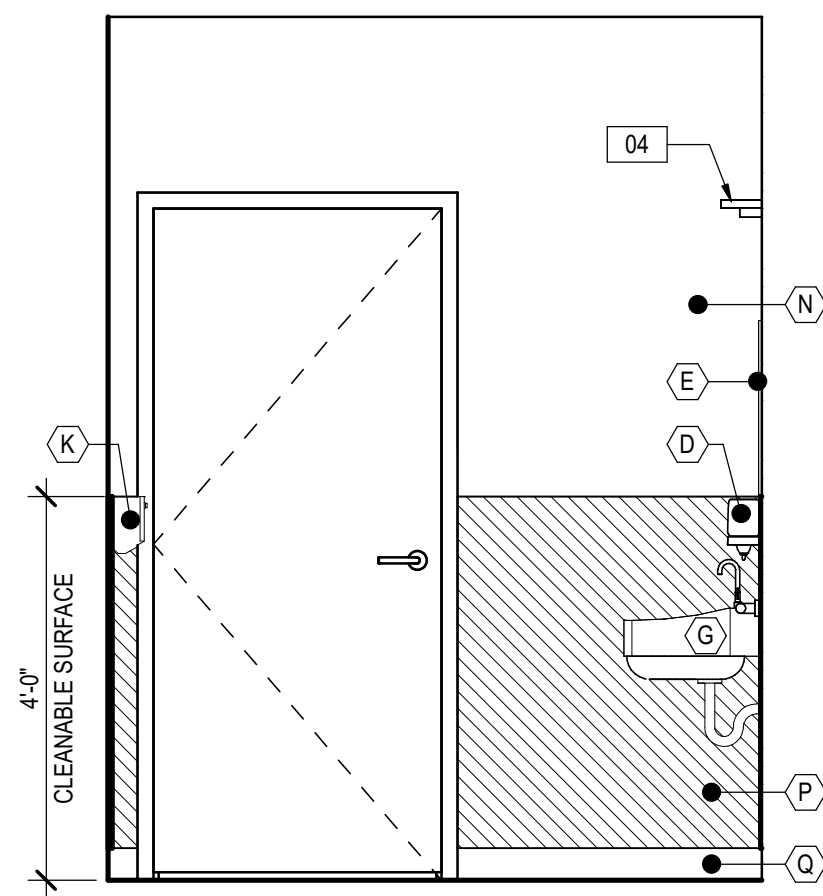
PROJECT NUMBER: 25-040

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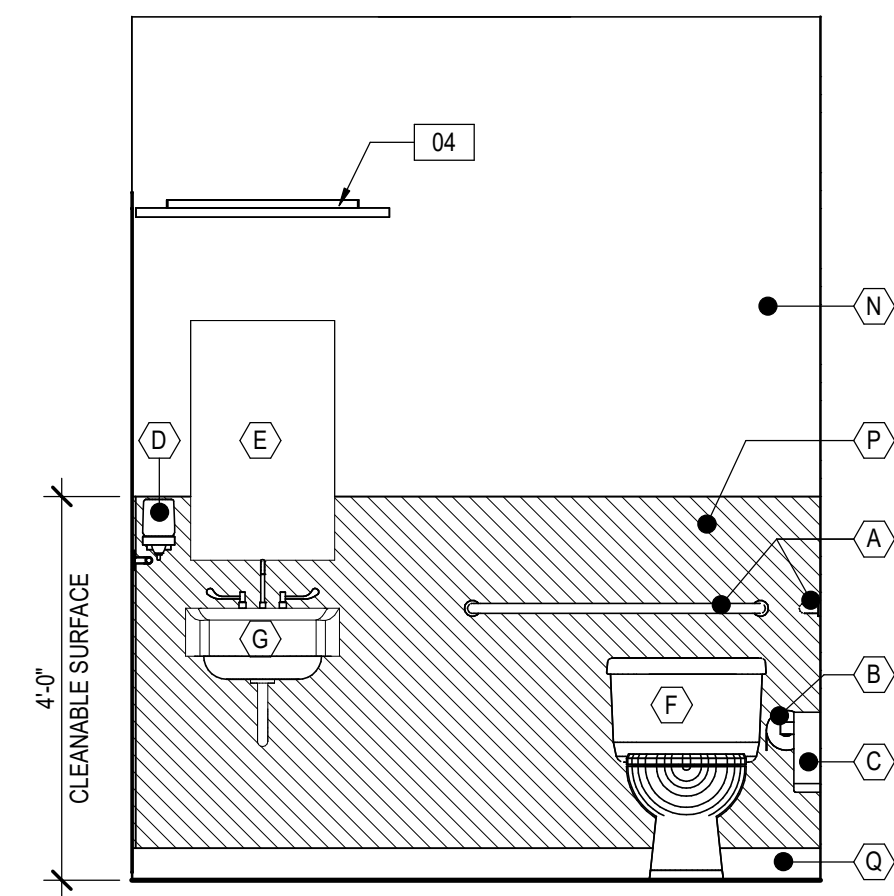
**DRYWALL WAREHOUSE HWY 81**  
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WALL SECTIONS  
**A-412**  
ISSUED FOR CONSTRUCTION

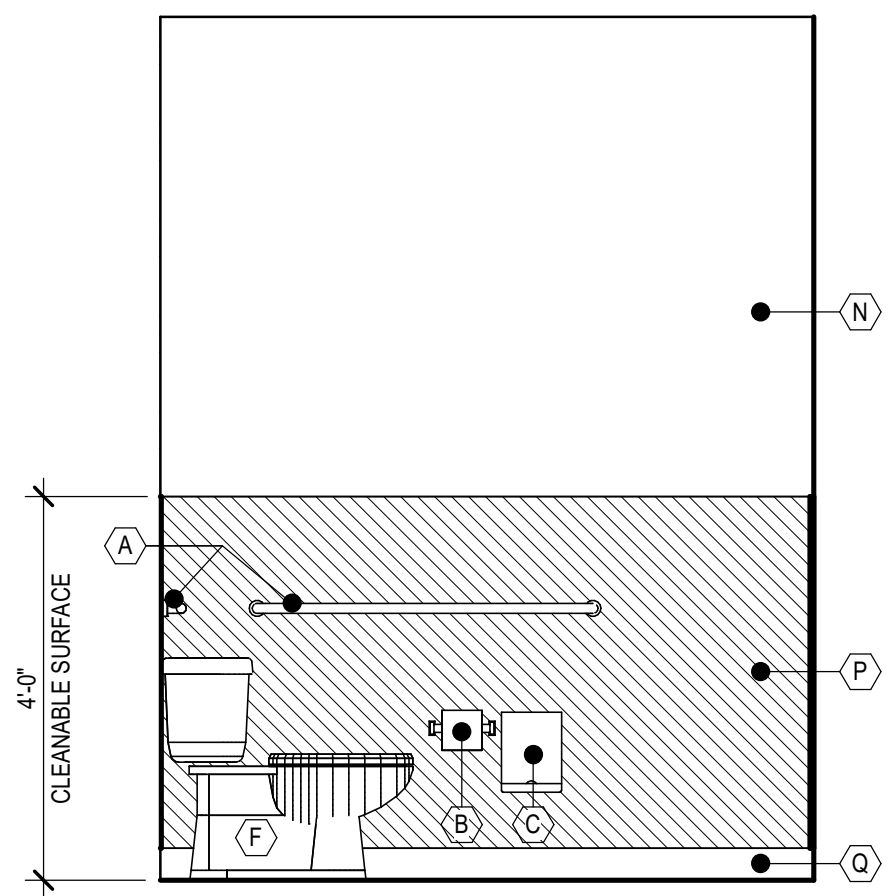




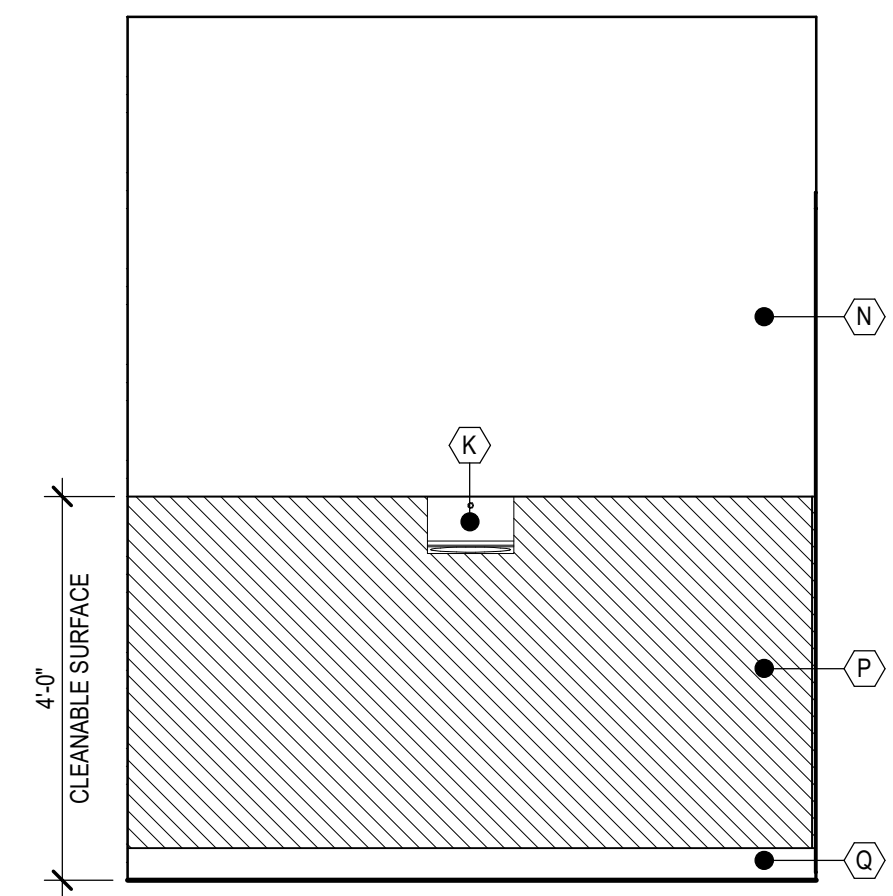
**11 RR INT. ELEV. H**  
A-501 | 1/2" = 1'-0"



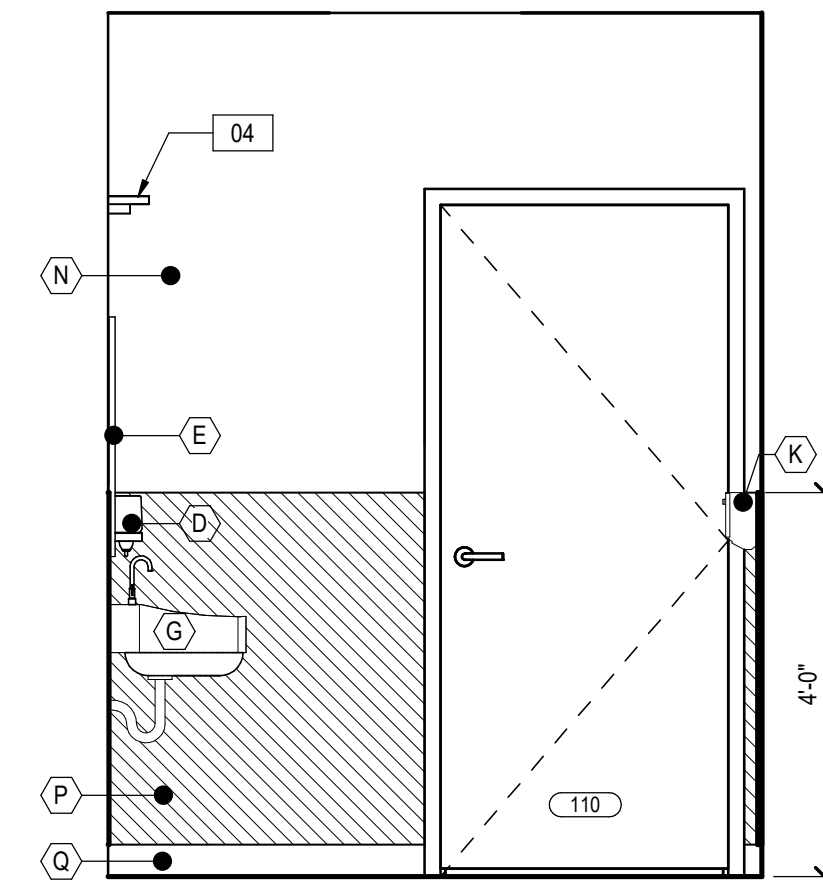
**10 RR INT. ELEV. G**  
A-501 | 1/2" = 1'-0"



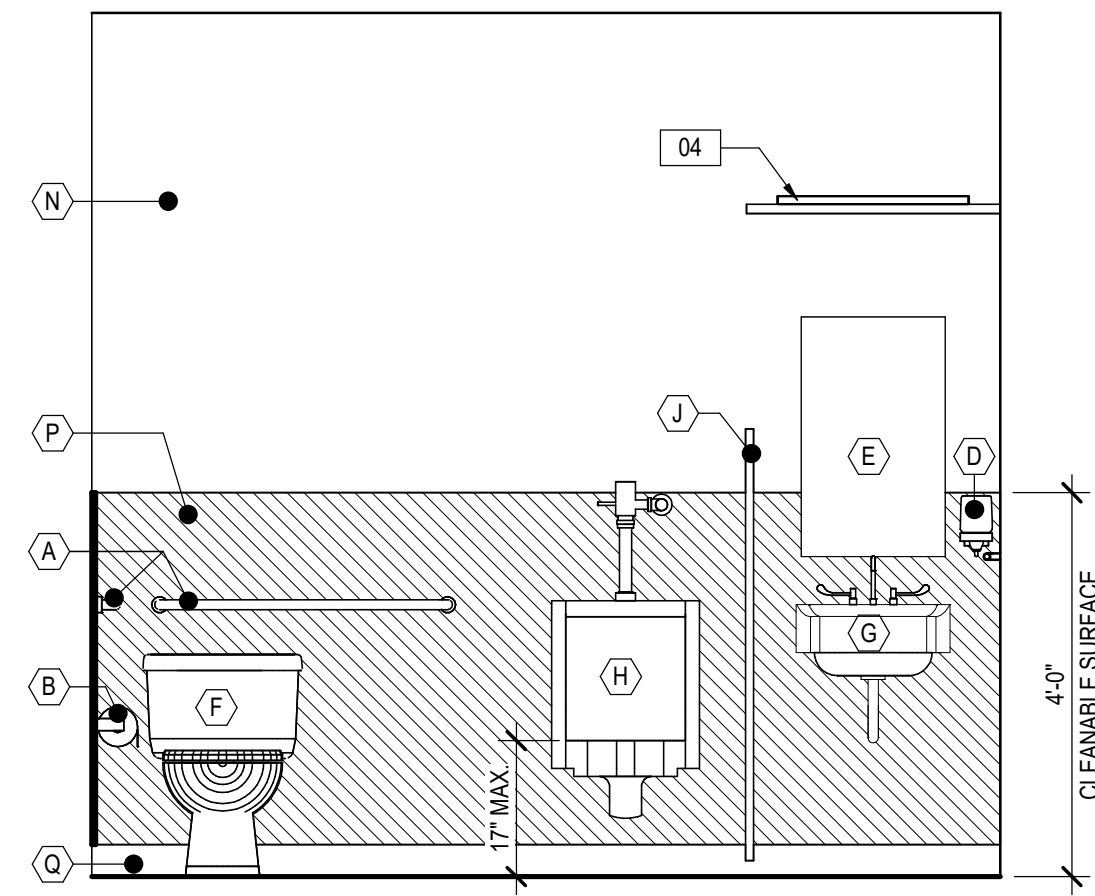
**9 RR INT. ELEV. F**  
A-501 | 1/2" = 1'-0"



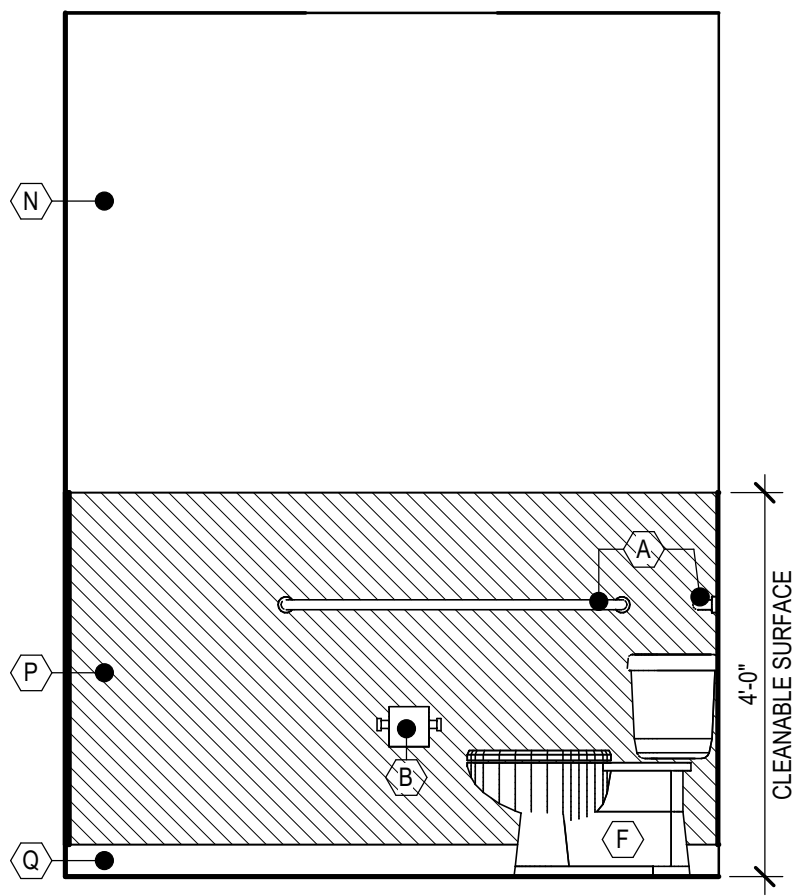
**8 RR INT. ELEV. E**  
A-501 | 1/2" = 1'-0"



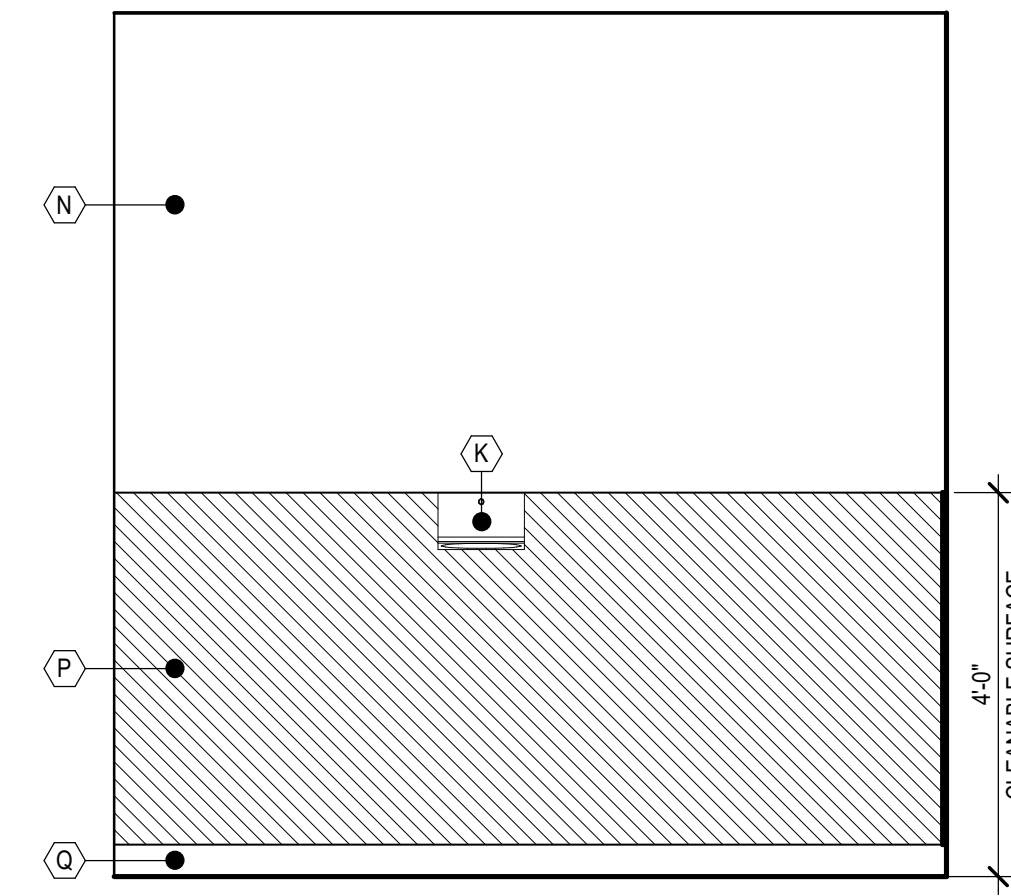
**7 RR INT. ELEV. D**  
A-501 | 1/2" = 1'-0"



**6 RR INT. ELEV. C**  
A-501 | 1/2" = 1'-0"



**5 RR INT. ELEV. B**  
A-501 | 1/2" = 1'-0"



**4 RR INT. ELEV. A**  
A-501 | 1/2" = 1'-0"

**TOILET ACCESSORY LEGEND**

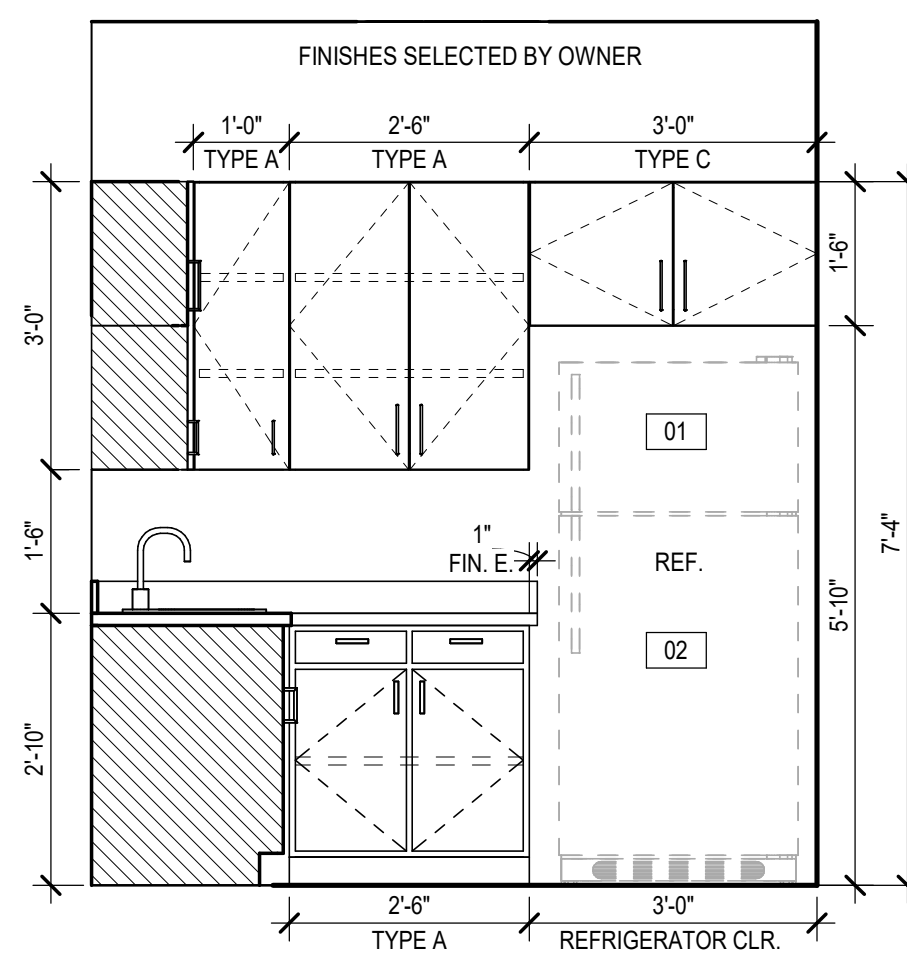
- (A) 42" S.S. & 36" S.S. 1-1/2" GRAB BAR
- (B) TOILET PAPER DISPENSER - SURFACE MOUNTED - PROVIDE BLOCKING
- (C) SANITARY NAPKIN RECEPTACLE - SURFACE MOUNTED - PROVIDE BLOCKING
- (D) SOAP DISPENSER - SURFACE MOUNTED - PROVIDE BLOCKING
- (E) 18" X 36" WALL MOUNTED MIRROR (CENTERED ON SINK)
- (F) FLOOR MOUNTED TOILET
- (G) WALL MOUNTED SINK; PROVIDE BLOCKING AND PIPE PROTECTION AS REQUIRED
- (H) WALL MOUNTED URINAL; PROVIDE BLOCKING
- (J) URINAL PARTITION
- (K) PAPER TOWEL DISPENSER - SURFACE MOUNTED; PROVIDE BLOCKING
- (L) FLOOR DRAIN, REFER TO PLUMBING DRAWING FOR FURTHER INFORMATION
- (M) HI-HO ADA DRINKING FOUNTAIN
- (N) INTERIOR WALL PAINT. COORDINATE FINISH WITH OWNER
- (P) F.R.P. OR EQUAL DURABLE, SCRUBBABLE CLEANABLE SURFACE @ 48" HIGH A.F.F.
- (Q) RUBBER BASE

**TOILET ROOM NOTES**

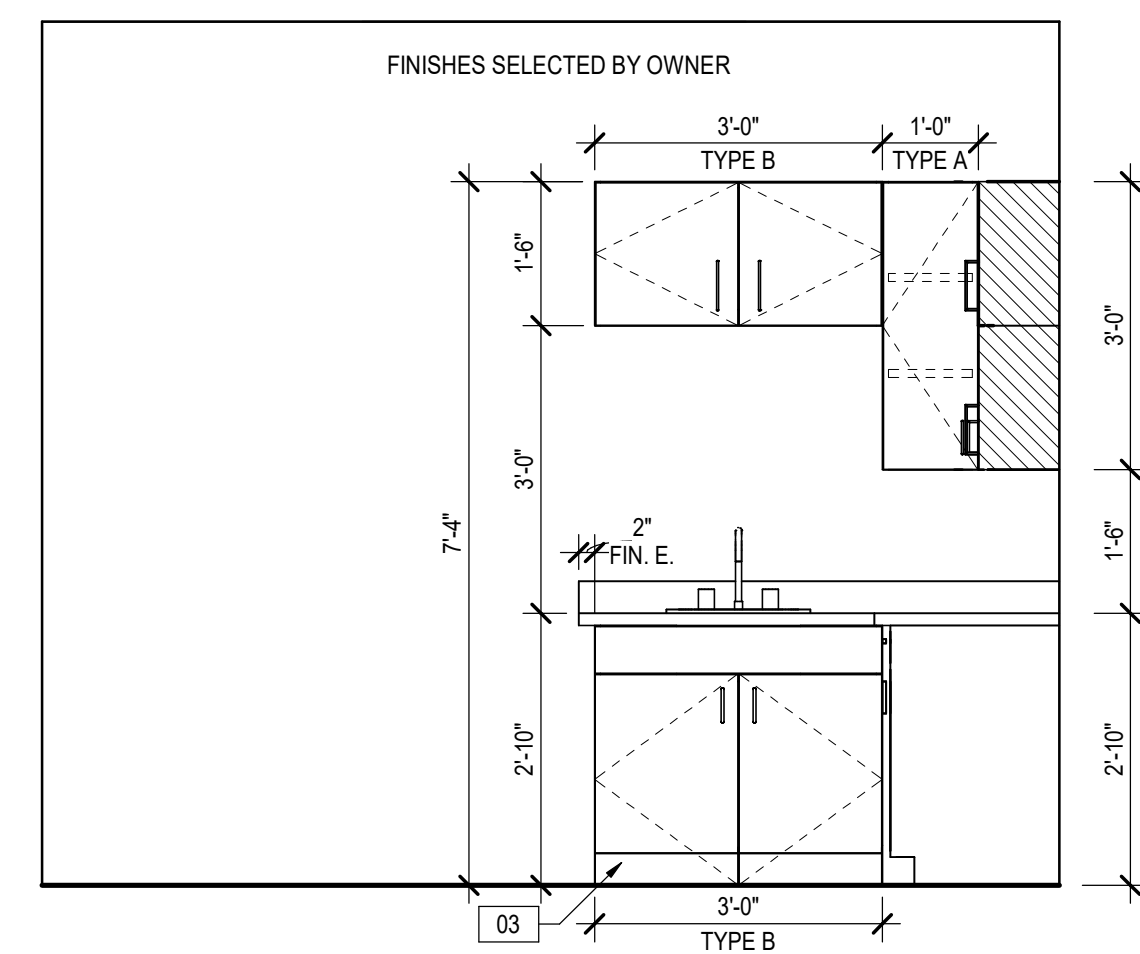
1. ACCESSIBLE LOCATIONS THROUGHOUT SHALL HAVE A 30"x48" CLEAR FLOOR SPACE IN FRONT OF ALL LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS. COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS.
2. WATER CLOSET FIXTURE TYPES SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC ONLY. SEE PLUMBING DRAWINGS FOR EXACT WATER CLOSET TYPE FIXTURE.
3. LAVATORIES AND WATER CLOSETS TO BE LEVER TYPE CONTROL, MOUNTED ON THE ACCESSIBLE SIDE OF TOILETS
4. PROVIDE SOLID BLOCKING IN WALL REQUIRED TO SUPPORT LAVATORIES, TOILET ACCESSORIES, GRAB BARS, ETC. (INCLUDING FURNITURE).
5. MOUNT ALL ACCESSORIES AT HEIGHTS AND LOCATIONS INDICATED ON MANUFACTURER'S INSTALLATION INSTRUCTIONS U.N.O. TO PROVIDE APPLICABLE ACCESSIBILITY COMPLIANCE. SEE SHEET G-050 & G-051
6. REFER TO PLUMBING DRAWINGS FOR PLUMBING FIXTURE SCHEDULE, ELECTRICAL DRAWINGS FOR ELECTRICAL FIXTURE SCHEDULE, AND INTERIOR DRAWINGS FOR FINISH INFORMATION.

**INTERIOR ELEVATION KEYNOTES**

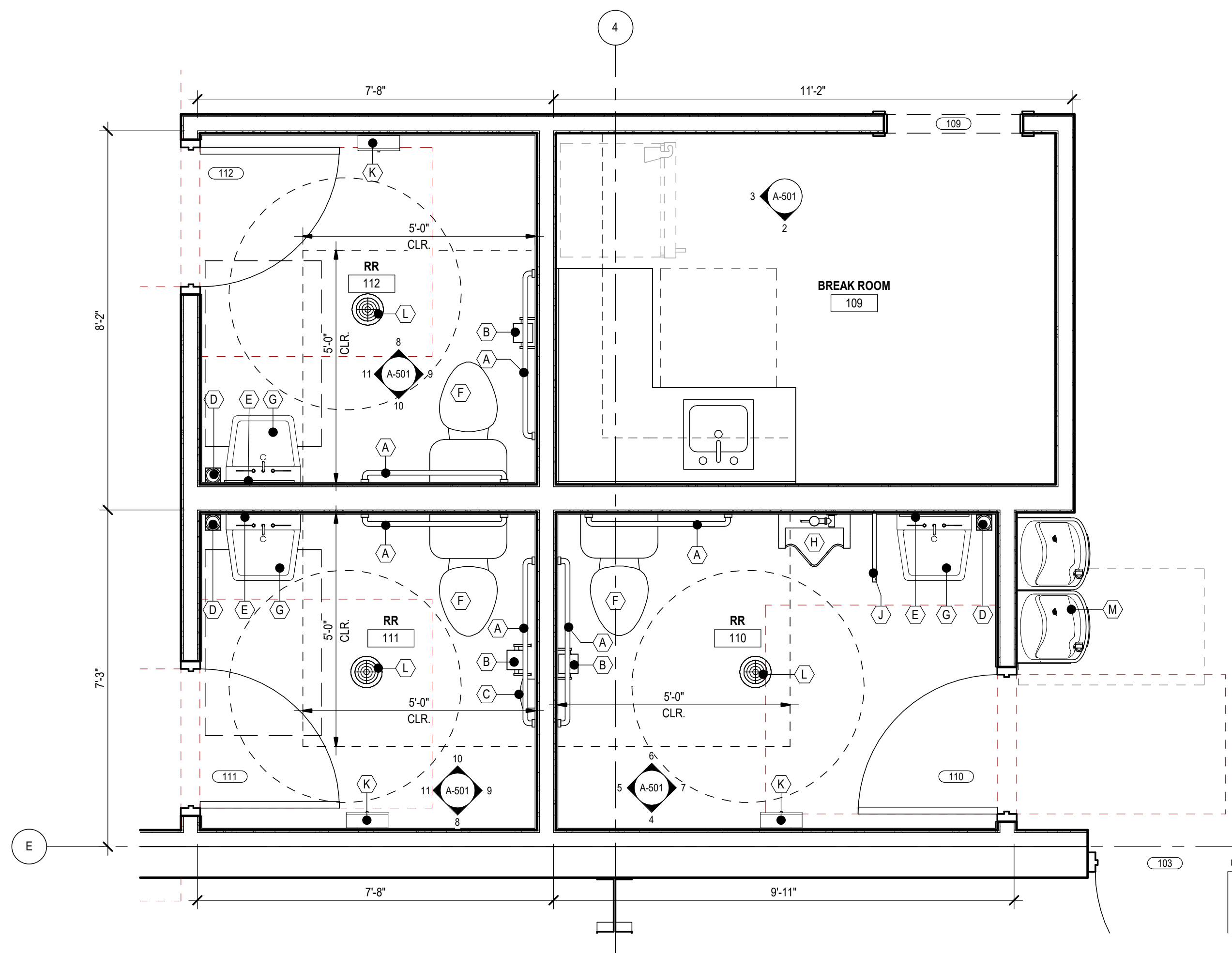
- 01 COORDINATE REF. WIDTH W/ OWNER PROVIDED EQUIPMENT
- 02 PROVIDE WATER LINE WITH SHUTOFF FOR ICE MAKER
- 03 INTEGRAL TOE KICK AT ADA CABINET. PROVIDE PIPE PROTECTION AND FINISHED SIDE PANELS. PROVIDE CLEAR KNEE SPACE PER ADA DETAILS, SHEET G-050
- 04 VANITY LIGHT FIXTURE; SEE ELECTRICAL DRAWINGS



**3 BREAKROOM INT. ELEV. B**  
A-501 | 1/2" = 1'-0"



**2 BREAKROOM INT. ELEV. A**  
A-501 | 1/2" = 1'-0"



**1 ENLARGED RESTROOM AND BREAKROOM PLAN**  
A-501 | 1/2" = 1'-0"



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**DRYWALL WAREHOUSE HWY 81**

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WALTON COUNTY, GEORGIA

**ENLARGED RESTROOM & BREAKROOM PLAN & INT. ELEVATIONS**

**A-501**

ISSUED FOR CONSTRUCTION

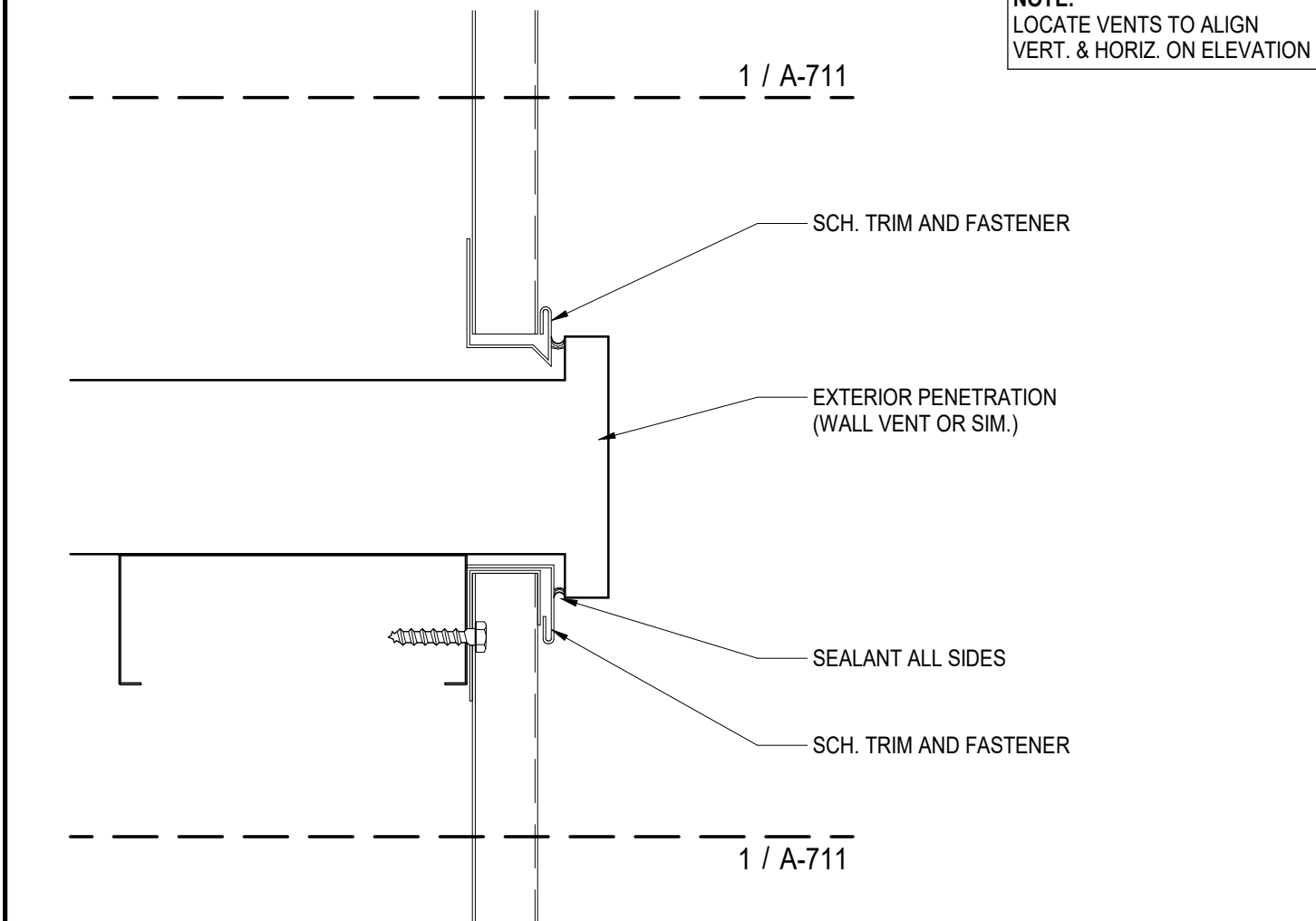
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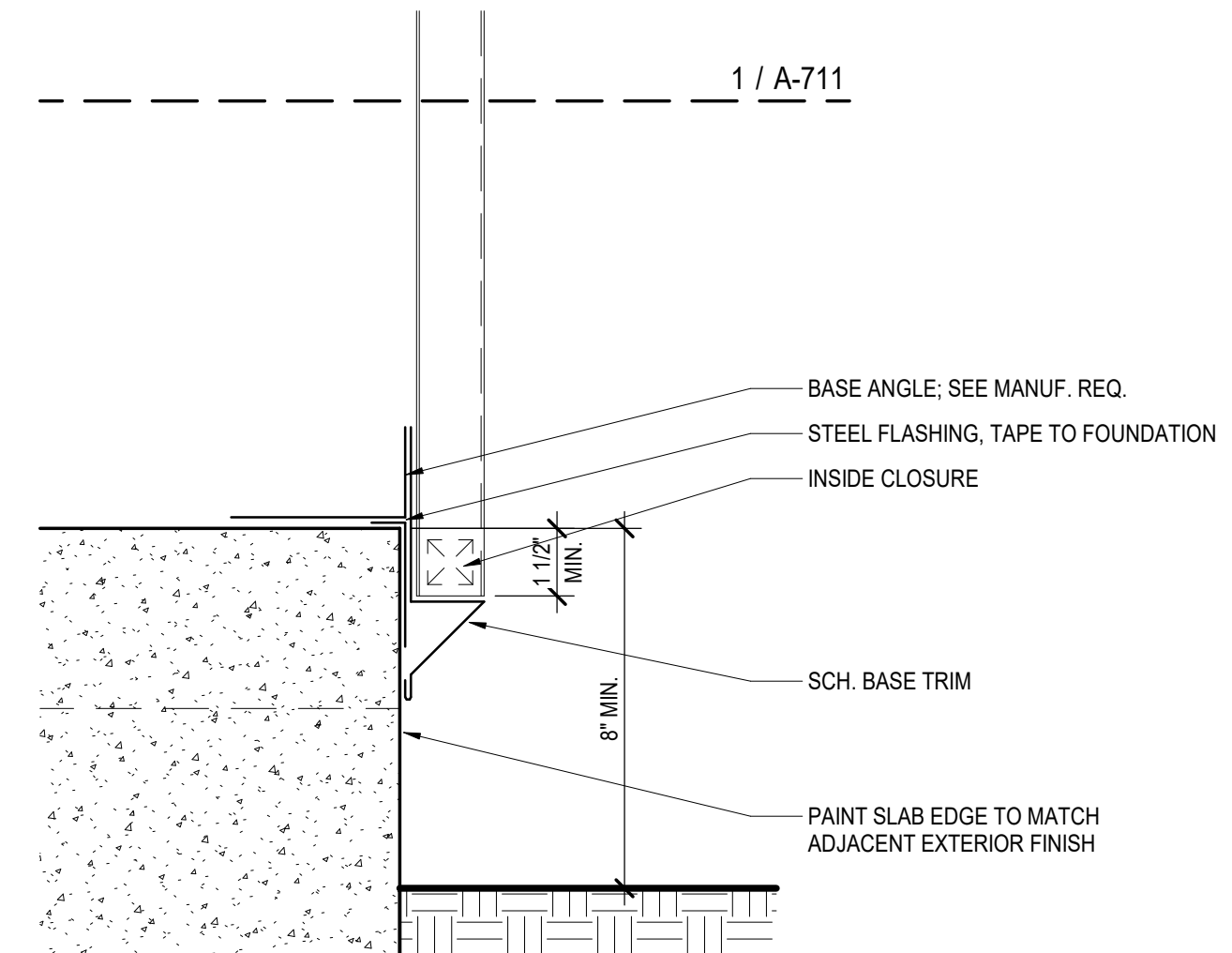
PROJECT NUMBER: 25-040

REVISIONS NO.	DATE	ISSUE

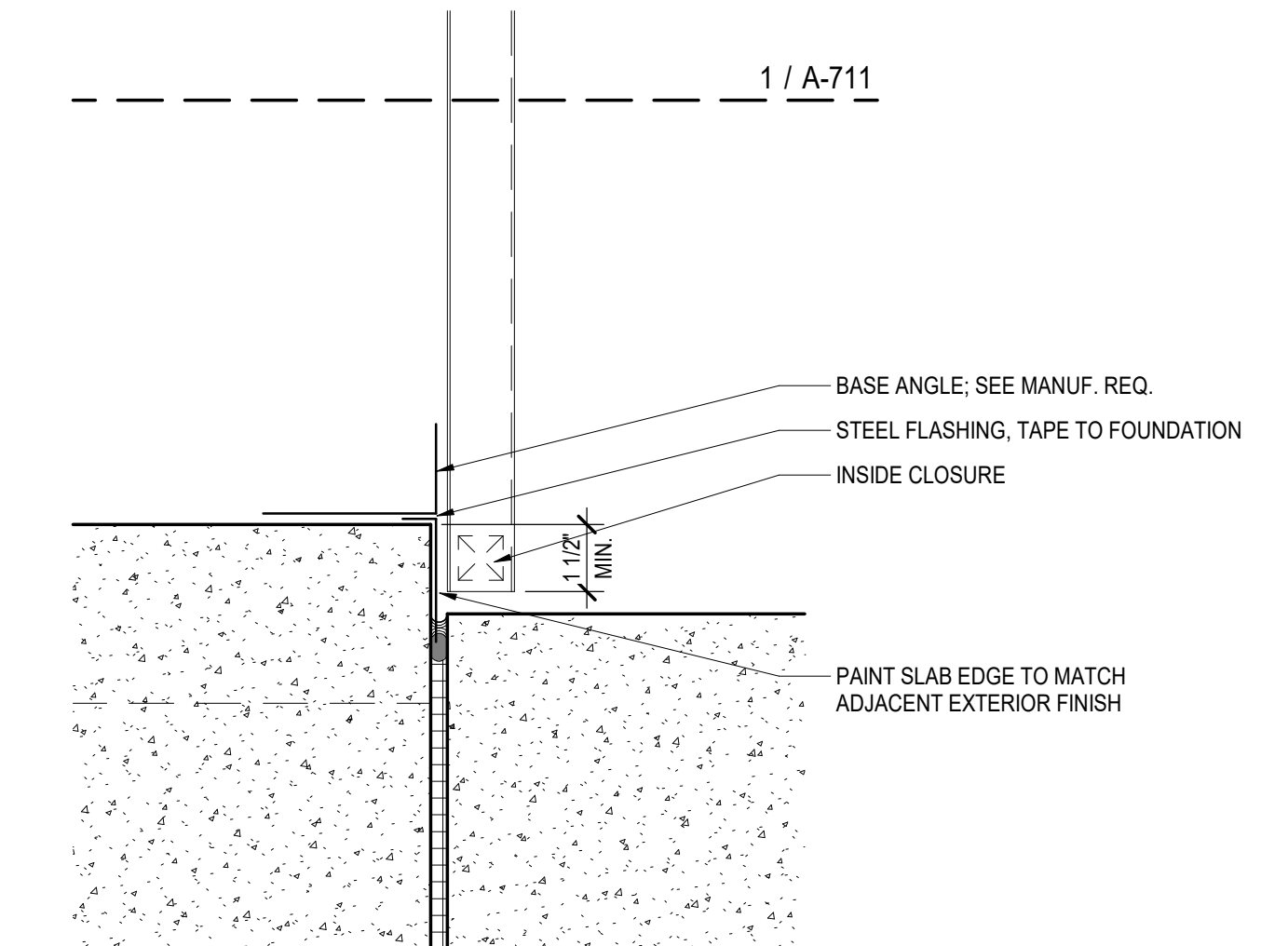
**NOTE:**  
 LOCATE VENTS TO ALIGN VERT. & HORIZ. ON ELEVATION



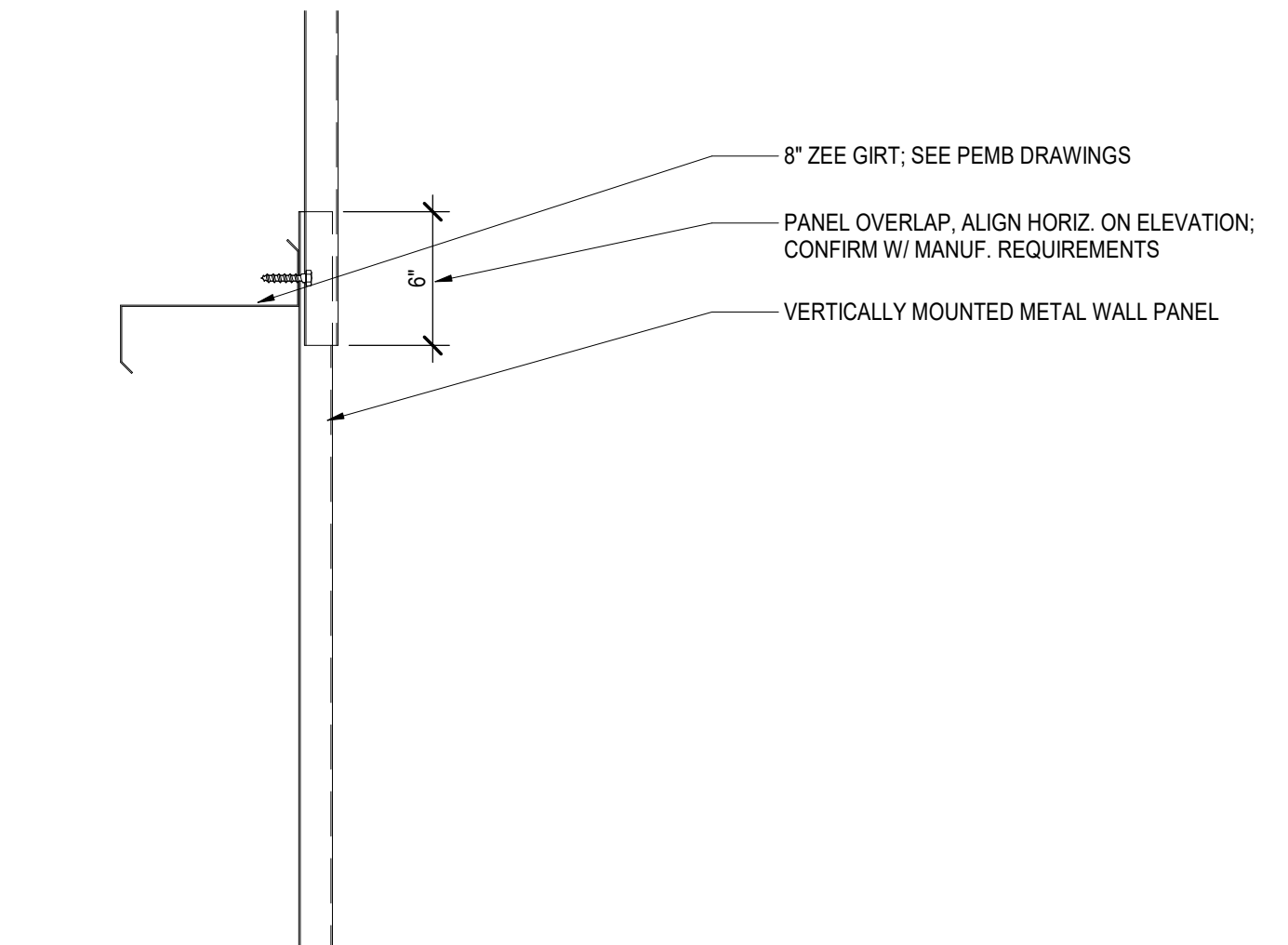
**4 ENLARGED SECTION - ZEE, VERT. MWP @ PENETRATION**  
 A-711 | 3" = 1'-0"



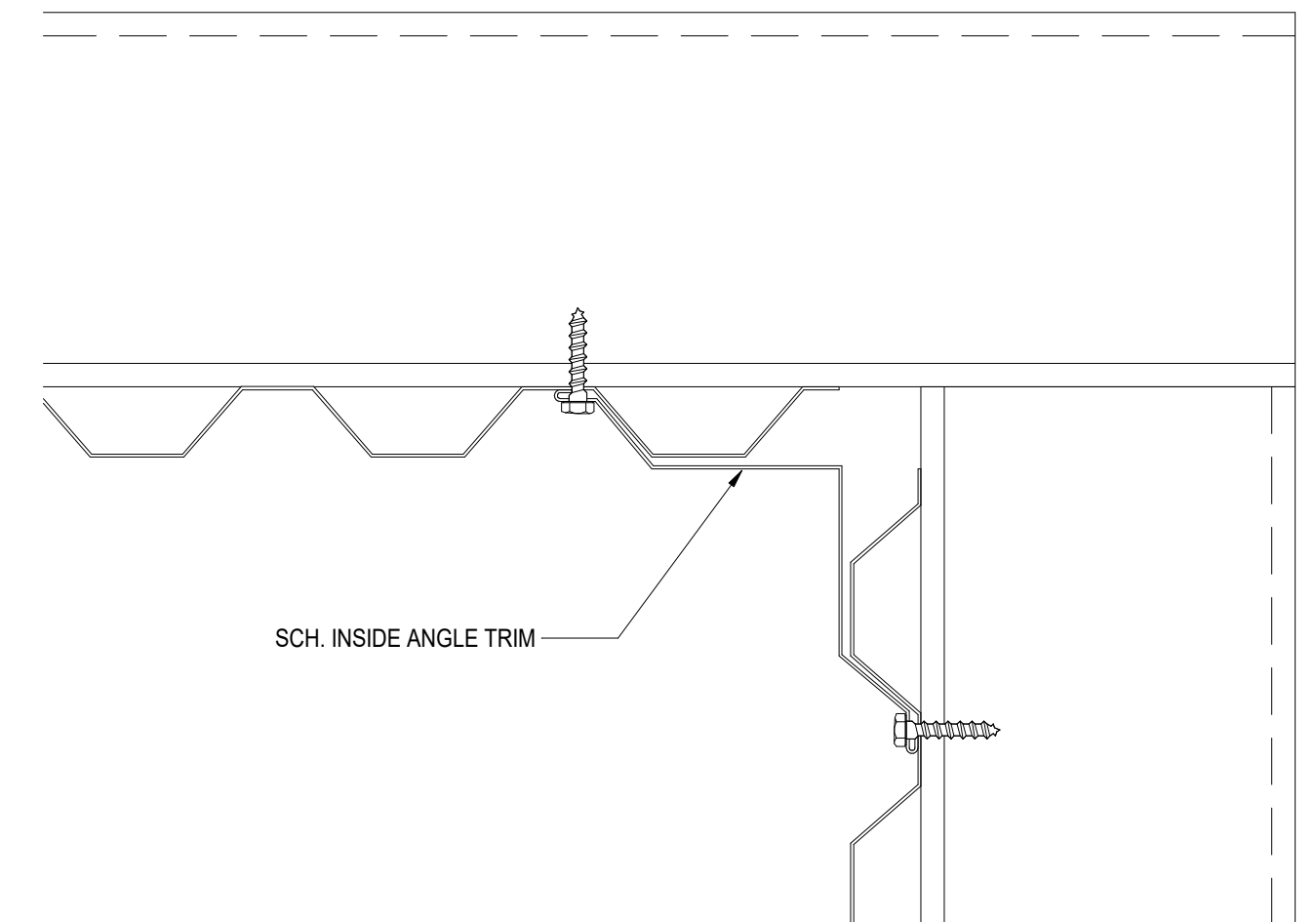
**3 ENLARGED SECTION - ZEE, VERT. MWP @ GRADE**  
 A-711 | 3" = 1'-0"



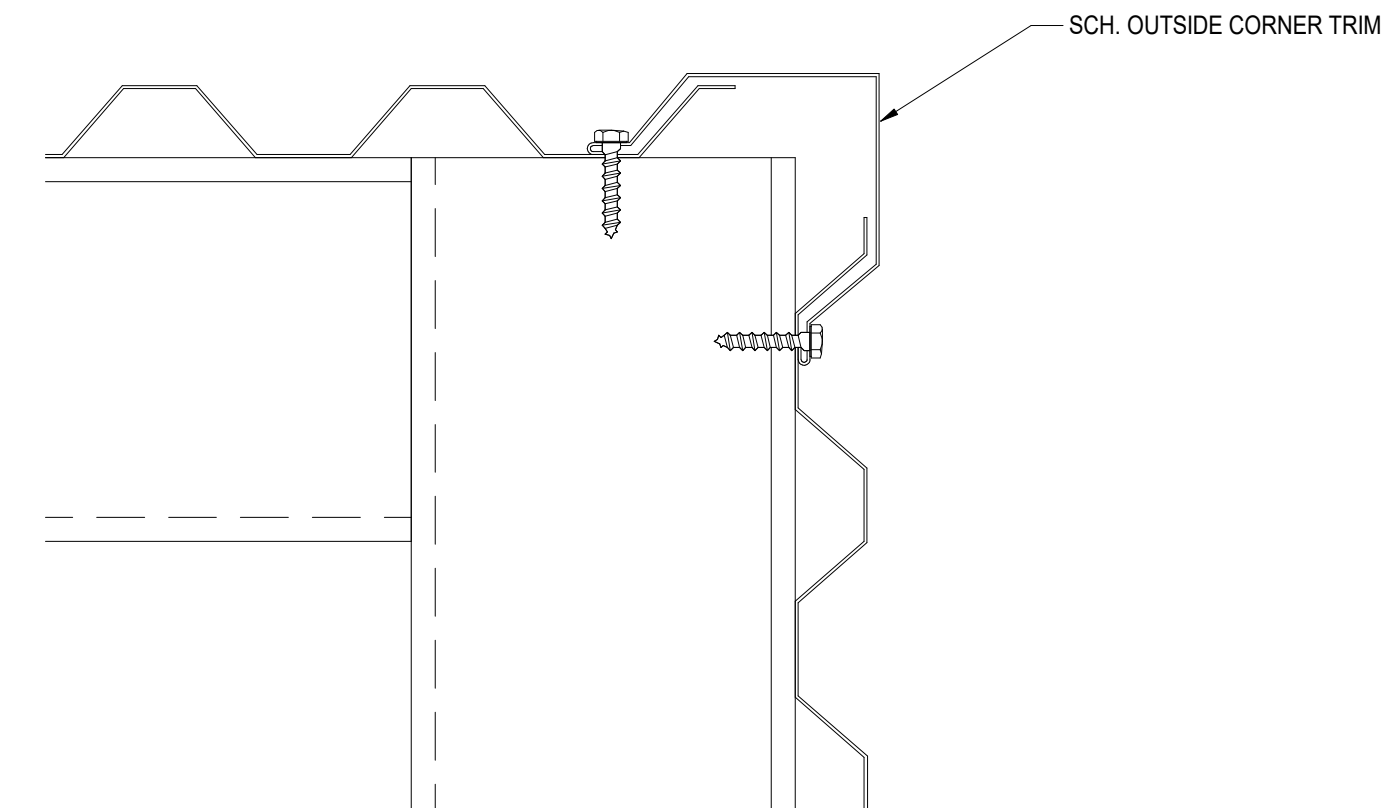
**2 ENLARGED SECTION - ZEE, VERT. MWP @ FOUNDATION**  
 A-711 | 3" = 1'-0"



**1 ENLARGED SECTION - ZEE, VERTICAL MWP**  
 A-711 | 1 1/2" = 1'-0"



**6 ENLARGED PLAN - ZEE, VERT. MWP @ INSIDE CORNER**  
 A-711 | 3" = 1'-0"



**5 ENLARGED PLAN - ZEE, VERT. MWP @ OUTSIDE CORNER**  
 A-711 | 3" = 1'-0"

**DRYWALL WAREHOUSE HWY 81**  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

ENLARGED DETAILS - ZEE, VERTICAL MWP

**A-711**  
 ISSUED FOR CONSTRUCTION

### DOOR SCHEDULE

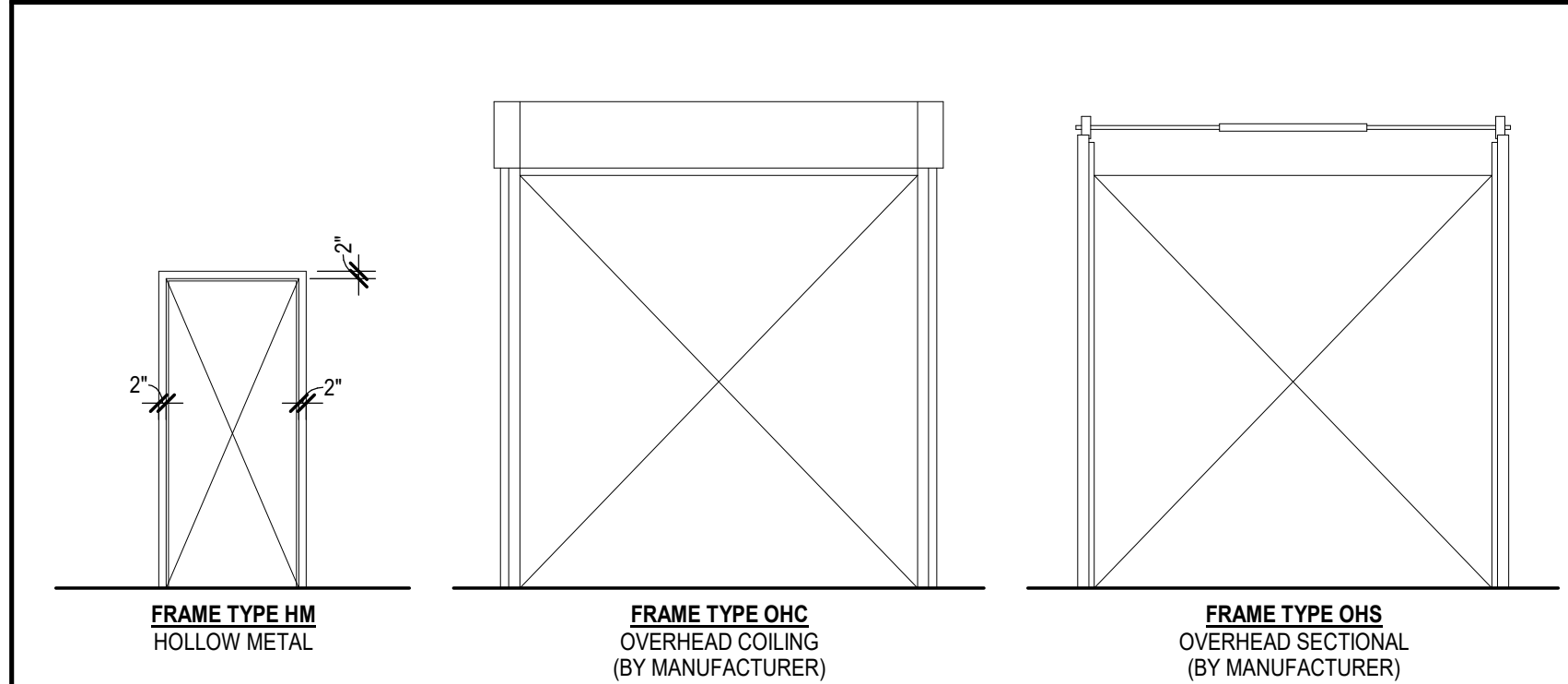
REV. #	Mark	ROOM	DOOR			FRAME			DETAIL			HARDWARE SET	NOTES		
			SIZE			TYPE	MAT.	GLZ.	TYPE	MAT.	HEAD			JAMB	SILL
			W	H	T										
LEVEL 01															
101		RECEPTION	3'-0"	7'-0"	1"	GS	AL/GL	GL-01	SF-01	HM	H7	J7	SET 6	STOREFRONT DOOR	
103		HALLWAY	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HM	HM	H1	J1	SET 2		
104		OFFICE	3'-0"	7'-0"	1 3/4"	N	SCWD	N/A	HM	HM	H2	J2	SET 5		
105		OFFICE	3'-0"	7'-0"	1 3/4"	N	SCWD	N/A	HM	HM	H2	J2	SET 5		
106		OFFICE	3'-0"	7'-0"	1 3/4"	N	SCWD	N/A	HM	HM	H2	J2	SET 5		
107A		CLOSET	3'-0"	7'-0"	1 3/4"	F	SCWD	N/A	HM	HM	H2	J2	SET 4		
107B		CLOSET	3'-0"	7'-0"	1 3/4"	F	SCWD	N/A	HM	HM	H2	J2	SET 4		
108		DISPATCH	3'-0"	7'-0"	1 3/4"	N	SCWD	N/A	HM	HM	H2	J2	SET 5		
109		BREAK ROOM	3'-0"	7'-0"									(none)	CASED OPENING	
110		RR	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HM	HM	H2	J2	SET 3		
111		RR	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HM	HM	H2	J2	SET 3		
112		RR	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HM	HM	H2	J2	SET 3		
113A		NON-HEATED WAREHOUSE	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HMM	HM	H1	J1	SET 1		
113B		NON-HEATED WAREHOUSE	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HMM	HM	H1	J1	SET 1		
113C		NON-HEATED WAREHOUSE	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HMM	HM	H1	J1	SET 1		
114A		HEATED WAREHOUSE	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HMM	HM	H1	J1	SET 1		
114B		HEATED WAREHOUSE	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HMM	HM	H1	J1	SET 1		
114C		HEATED WAREHOUSE	3'-0"	7'-0"	1 3/4"	F	HM	N/A	HM	HM	H3	J3	SET 2		
OVDH 1		HEATED WAREHOUSE	12'-0"	14'-0"	1 1/2"	S			OHS		H4	J4	SET 7	MOTOR OPERATED DOOR	
OVDH 2		HEATED WAREHOUSE	14'-0"	14'-0"	1 1/2"	S			OHS		H4	J4	SET 7	MOTOR OPERATED DOOR	
OVDH 3		NON-HEATED WAREHOUSE	12'-0"	14'-0"	3/4"	C		N/A	OHC		H5	J5	SET 7	MOTOR OPERATED DOOR	

- HCW - HOLLOW-CORE WOOD
- SCW - SOLID-CORE WOOD
- HM - HOLLOW-METAL
- FG - FIBERGLASS
- PTD - PAINTED
- PRF - PRE-FINISHED

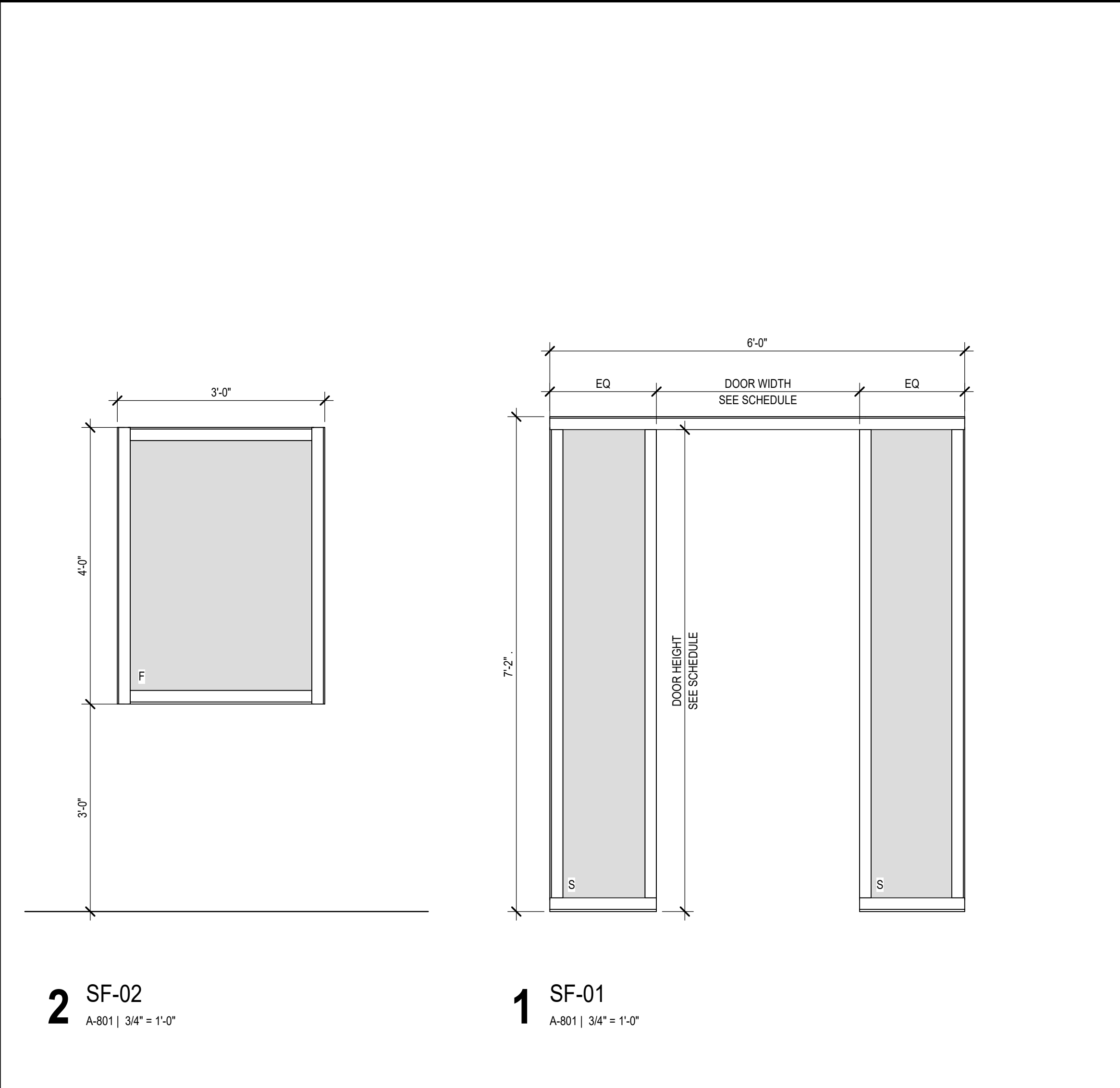
### HARDWARE SCHEDULE

REV. #	HARDWARE SET	OPERATION HARDWARE	PASSAGE SET HANDLES	PANIC-HARDWARE	ENTRY LOCKSET	CYLINDER	DOOR CLOSER	DOOR STOPPER	WEATHER STRIPPING	ADA THRESHOLD	SILENCERS	PEEP HOLE	KICK PLATE	COMMENTS
SET 1		CONTINUOUS HINGE, RIM CYLINDER, CLOSER	LEVER HANDLE, PANIC BAR											
SET 2		CONTINUOUS HINGE, RIM CYLINDER, CLOSER	LEVER HANDLE											
SET 3		3 HINGE, WALL STOP, PRIVACY LOCK	LEVER HANDLE											
SET 4		3 HINGE, STOREROOM LOCK	LEVER HANDLE											
SET 5		3 HINGE, WALL STOP, OFFICE LOCK	LEVER HANDLE											
SET 6		STOREFRONT DOOR HARDWARE	PROVIDED BY SUPPLIER											BALANCE OF HARDWARE PROVIDED BY STOREFRONT SUPPLIER
SET 7		OVERHEAD DOOR	PROVIDED BY MANUFACTURER											ALL HARDWARE BY OVERHEAD DOOR MANUFACTURER

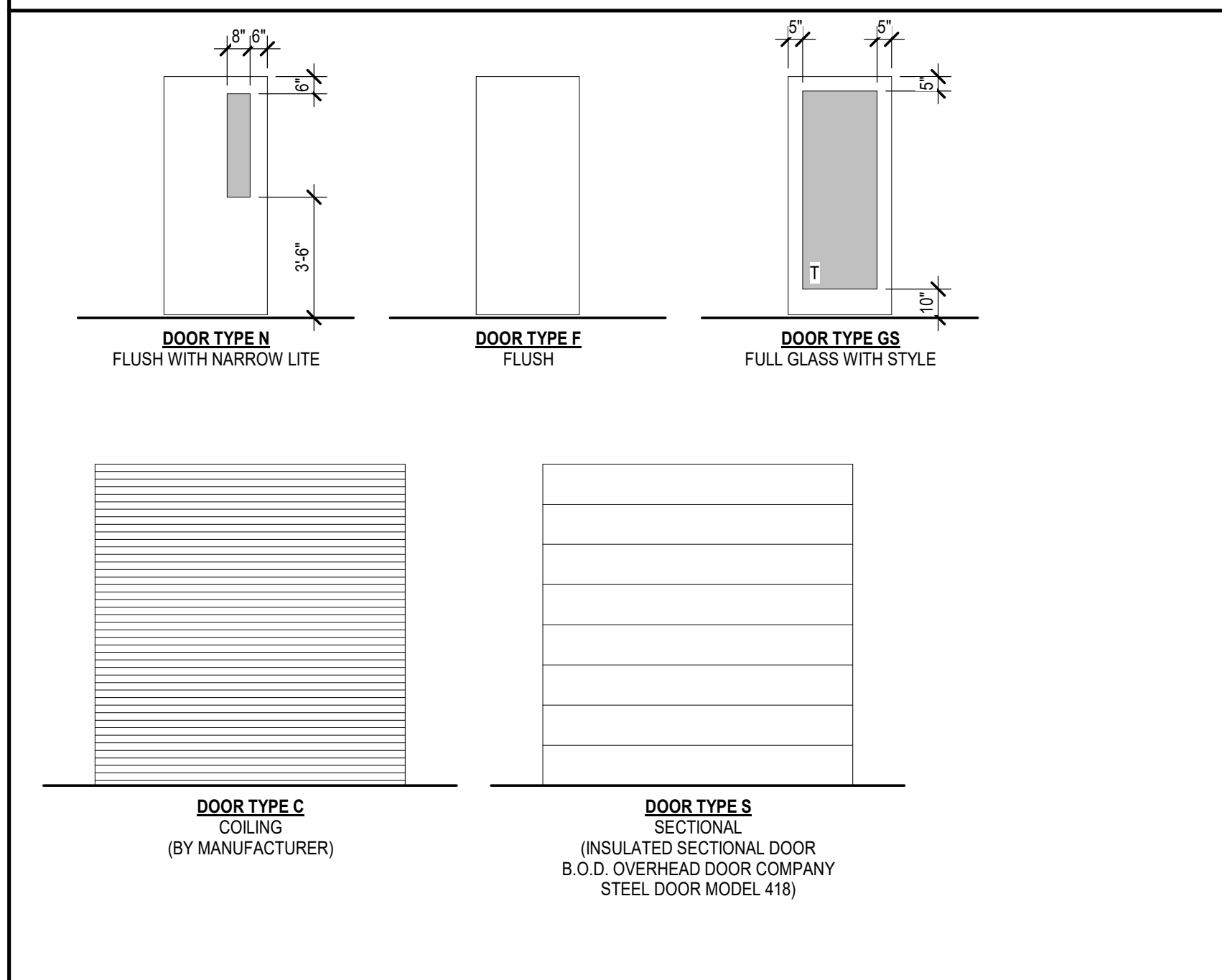
### FRAME TYPES



### STOREFRONT ELEVATIONS



### DOOR TYPES



### DOOR AND FRAME GENERAL NOTES

- UNDERCUT THE BOTTOMS OF DOORS TO CLEAR THE TOP OF FINISHED FLOOR, BY 1/2" MAXIMUM, U.N.O. VERIFY SLAB CONDITIONS AND TRIM EACH DOOR TO FIT CONDITION. WHERE RADICAL VARIATIONS IN FLOOR LEVEL EXIST, DOORS SHALL BE ORDERED WITH BOTTOM STILE SIZED TO ACCOMMODATE THESE UNDERCUT CONDITIONS.
- CAULK THE JOINT BETWEEN THE FRAME AND WALL, ALL SIDES, WITH PAINTABLE WHITE LATEX CAULK.
- CONTRACTOR SHALL REVIEW KEYING WITH OWNER PRIOR TO FITTING CYLINDERS. KEY CYLINDERS TO OWNER'S MASTER.
- ALL NEW DOOR HARDWARE IS TO MATCH THE EXISTING MANUFACTURER, STYLE, AND FINISH. CONTRACTOR IS TO FIELD VERIFY THE EXISTING HARDWARE.
- DOOR PANELS SHOWN FOR COORDINATION PURPOSES ONLY. COORDINATE FINAL PANEL DESIGN WITH INTERIOR DESIGN SCOPE.
- LETTER 'T' ON GLAZING INDICATES LOCATION OF SAFETY GLAZING, SEE SCHEDULE FOR LOCATION. SAFETY GLASS TO COMPLY WITH IBC SECTION 2406.
- ALL GLAZING IN EXTERIOR DOORS TO BE LOW-E CLEAR GLAZING.
- ALL EXTERIOR DOORS SHALL BE INSULATED.
- COORDINATE WITH MECHANICAL REQUIREMENTS FOR REQUIRED UNDERCUT IF ANY.

STATE OF GEORGIA  
 CERTIFICATE NO. BA0005  
 REGISTERED ARCHITECT  
 KEVIN B. WHIPPLE  
 04/27/2026

PROJECT NUMBER: 25-040

REVISIONS NO. DATE ISSUE

### STOREFRONT GENERAL NOTES

- LETTER 'S' ON GLAZING INDICATES LOCATION OF SAFETY GLAZING, SEE SCHEDULE FOR LOCATION. SAFETY GLASS TO COMPLY WITH IBC SECTIONS 2406 & 2407.
- LETTER 'F' ON SASHES INDICATES THAT IT IS FIXED.
- ALL GLAZING IN EXTERIOR WINDOWS TO BE SOLARBRAN 70 WITH SOLARBRONZE TINT MIN SHGC 0.25

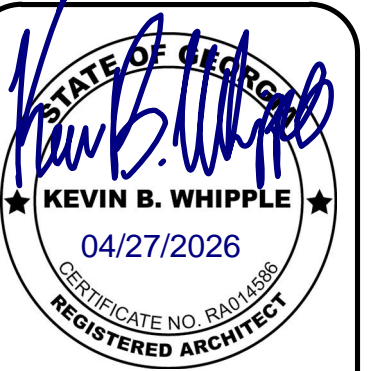
**DRYWALL WAREHOUSE HWY 81**

257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

DOOR SCHEDULE

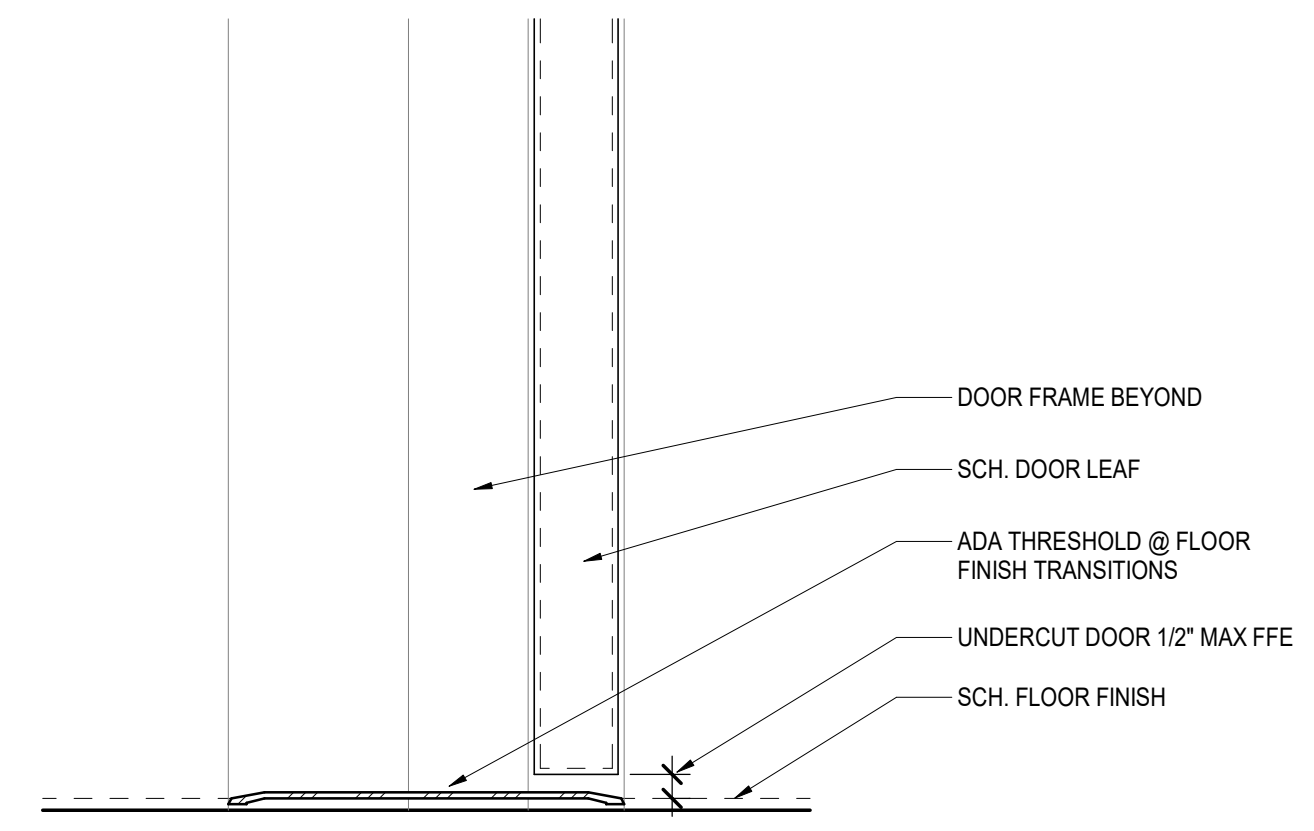
**A-801**

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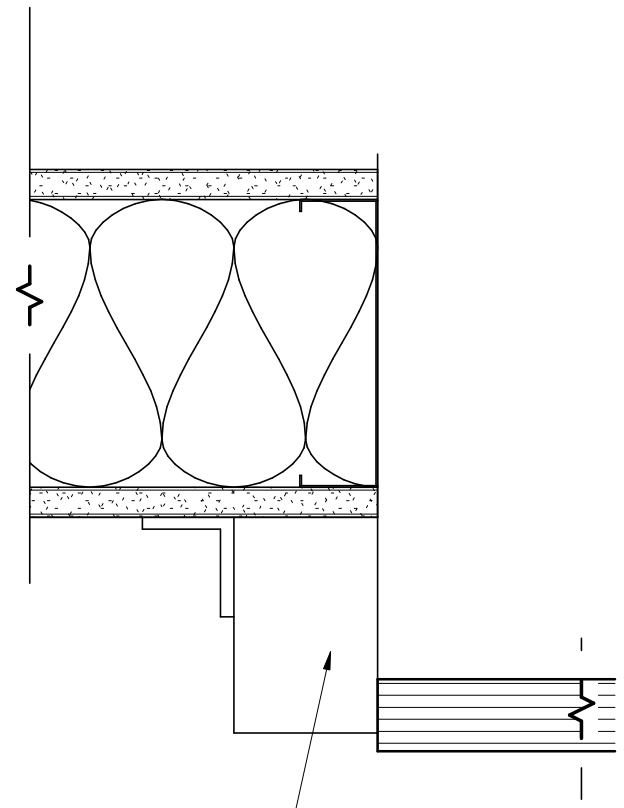


PROJECT NUMBER: 25-040

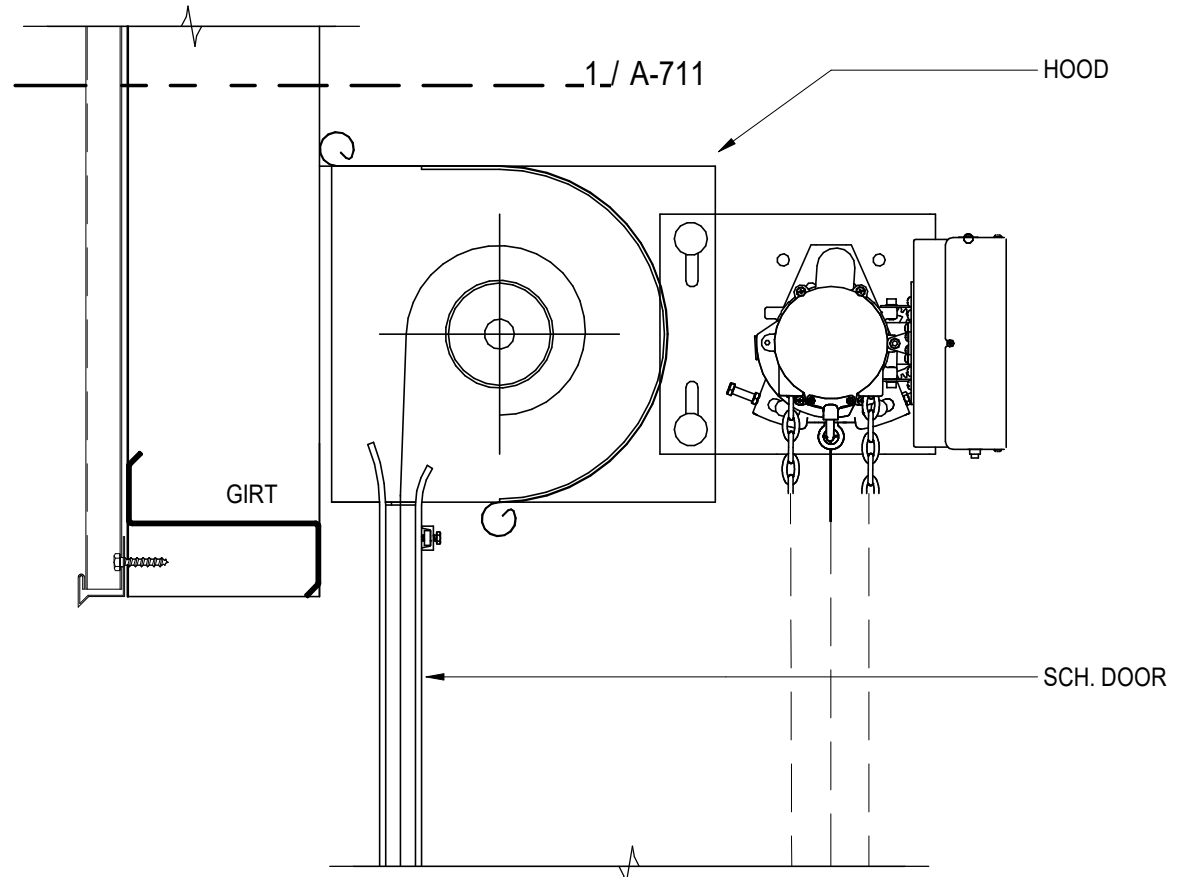
REVISIONS	NO.	DATE	ISSUE



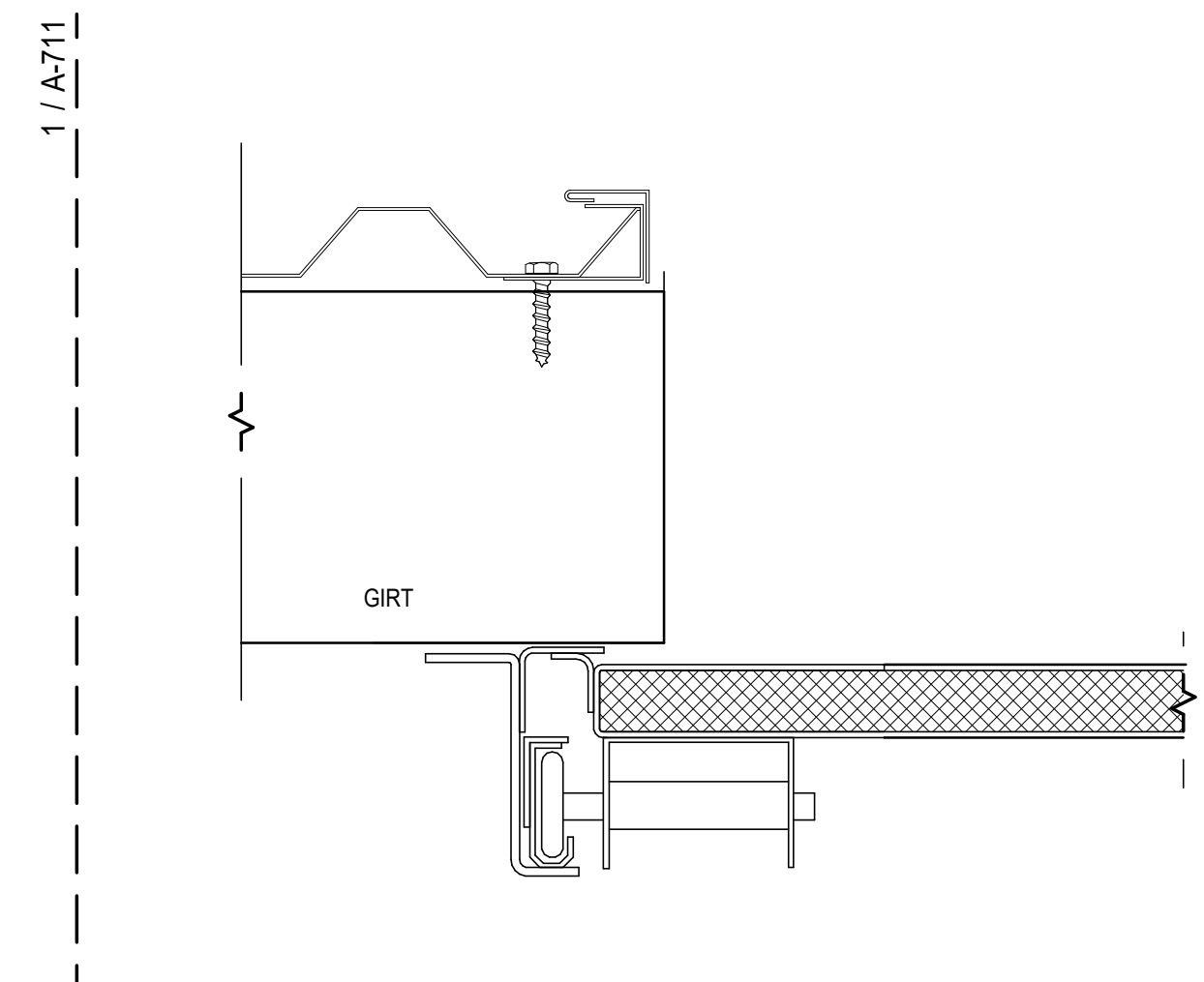
**S1** TYP. DOOR SILL  
 A-805 | 3" = 1'-0"



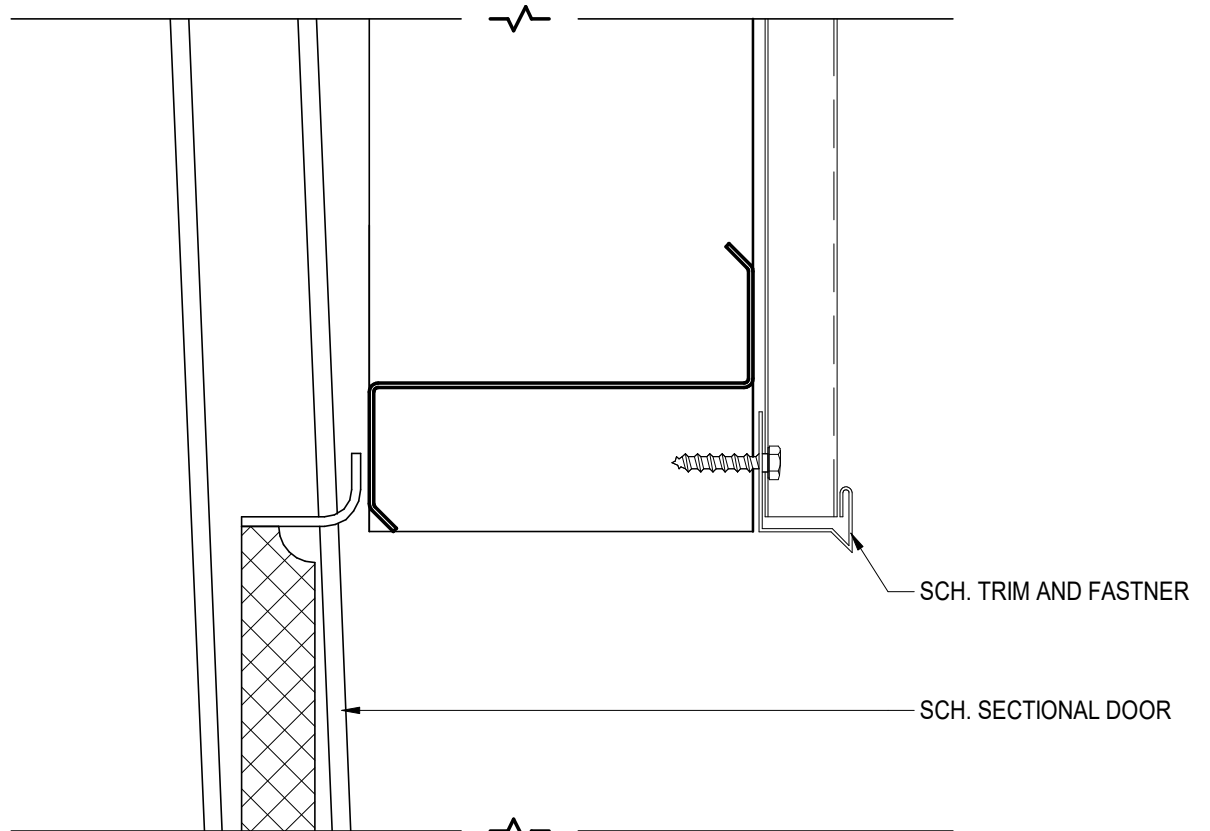
**J6** HM DOOR JAMB - METAL, BRICK  
 A-805 | 3" = 1'-0"



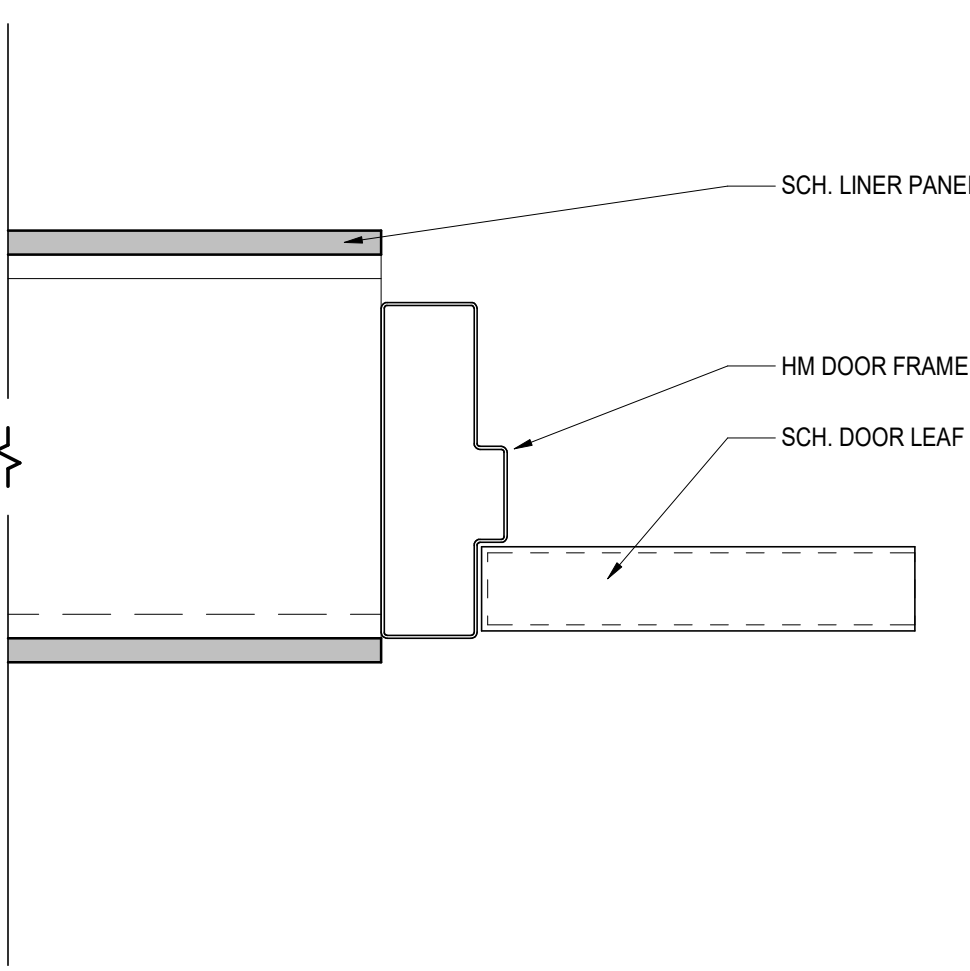
**H5** OVHD COILING DOOR HEAD - ZEE, VERT. MWP  
 A-805 | 1 1/2" = 1'-0"



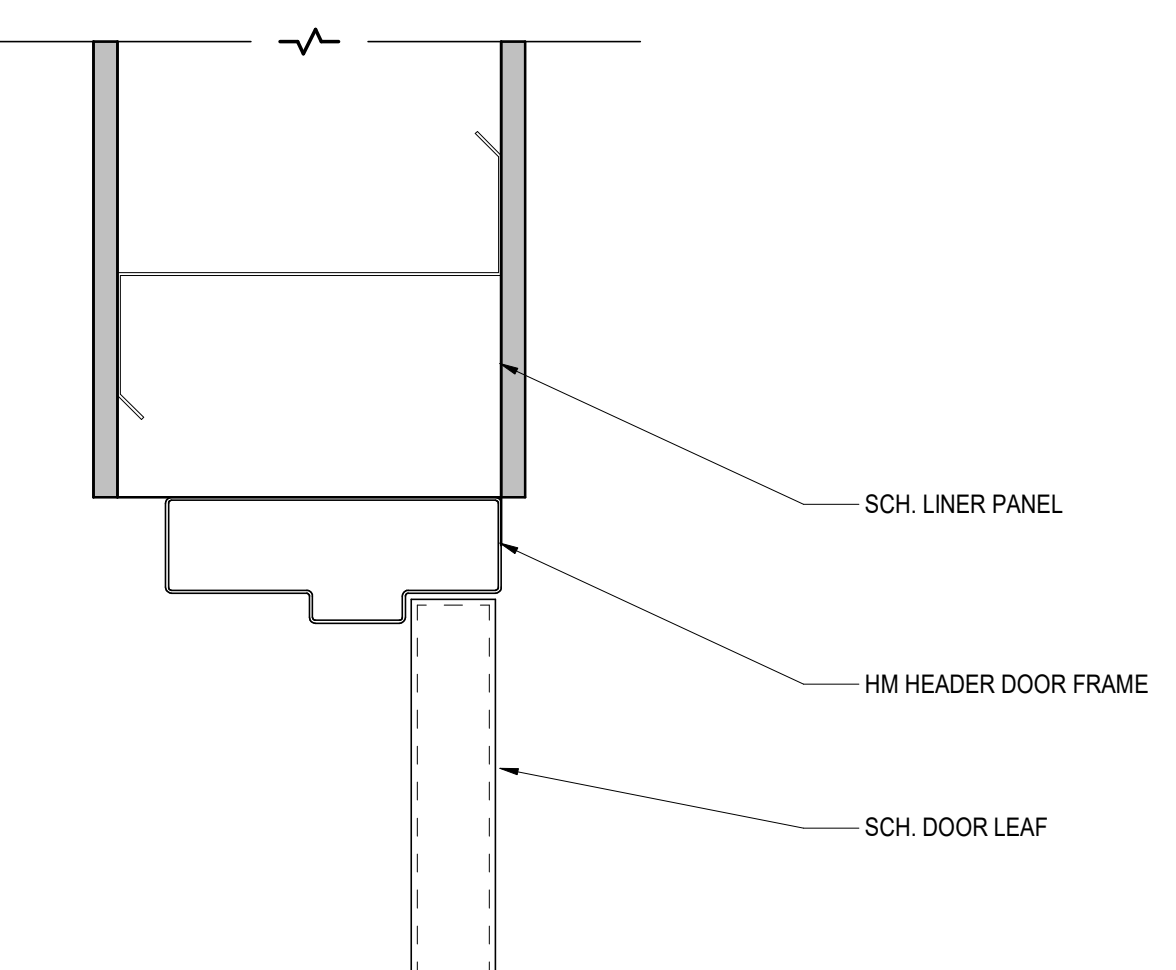
**J4** SECTIONAL OVHD DOOR JAMB - ZEE, VERT. MWP  
 A-805 | 3" = 1'-0"



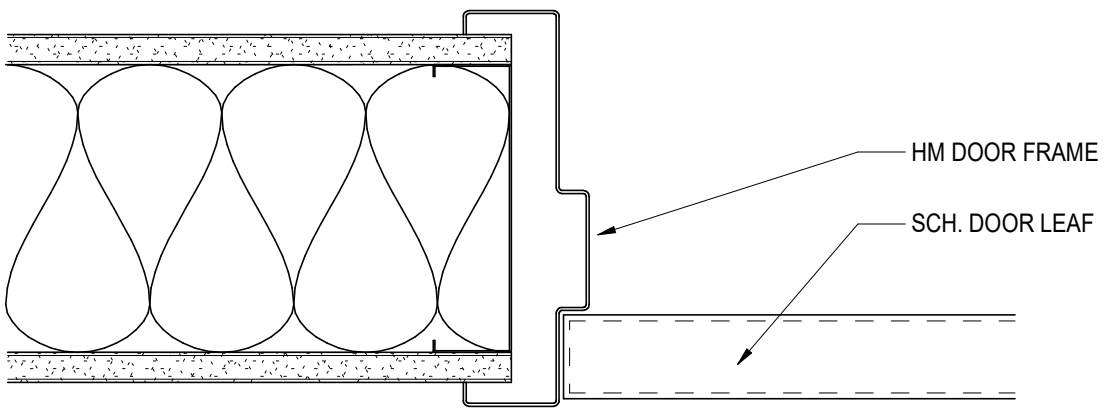
**H4** SECTIONAL OVHD DOOR HEAD - ZEE, VERT. MWP  
 A-805 | 3" = 1'-0"



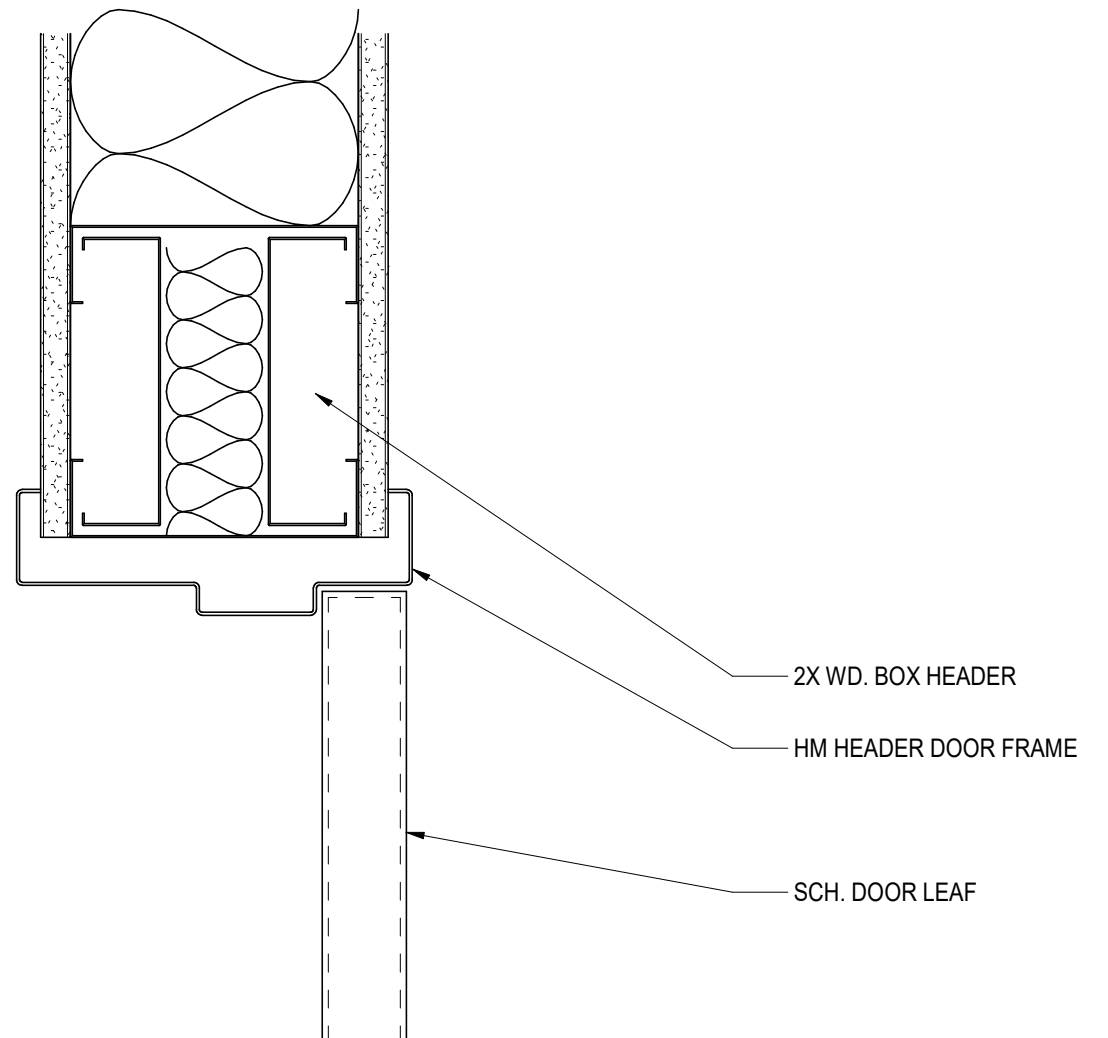
**J3** HM DOOR JAMB - ZEE, LINER PANEL  
 A-805 | 3" = 1'-0"



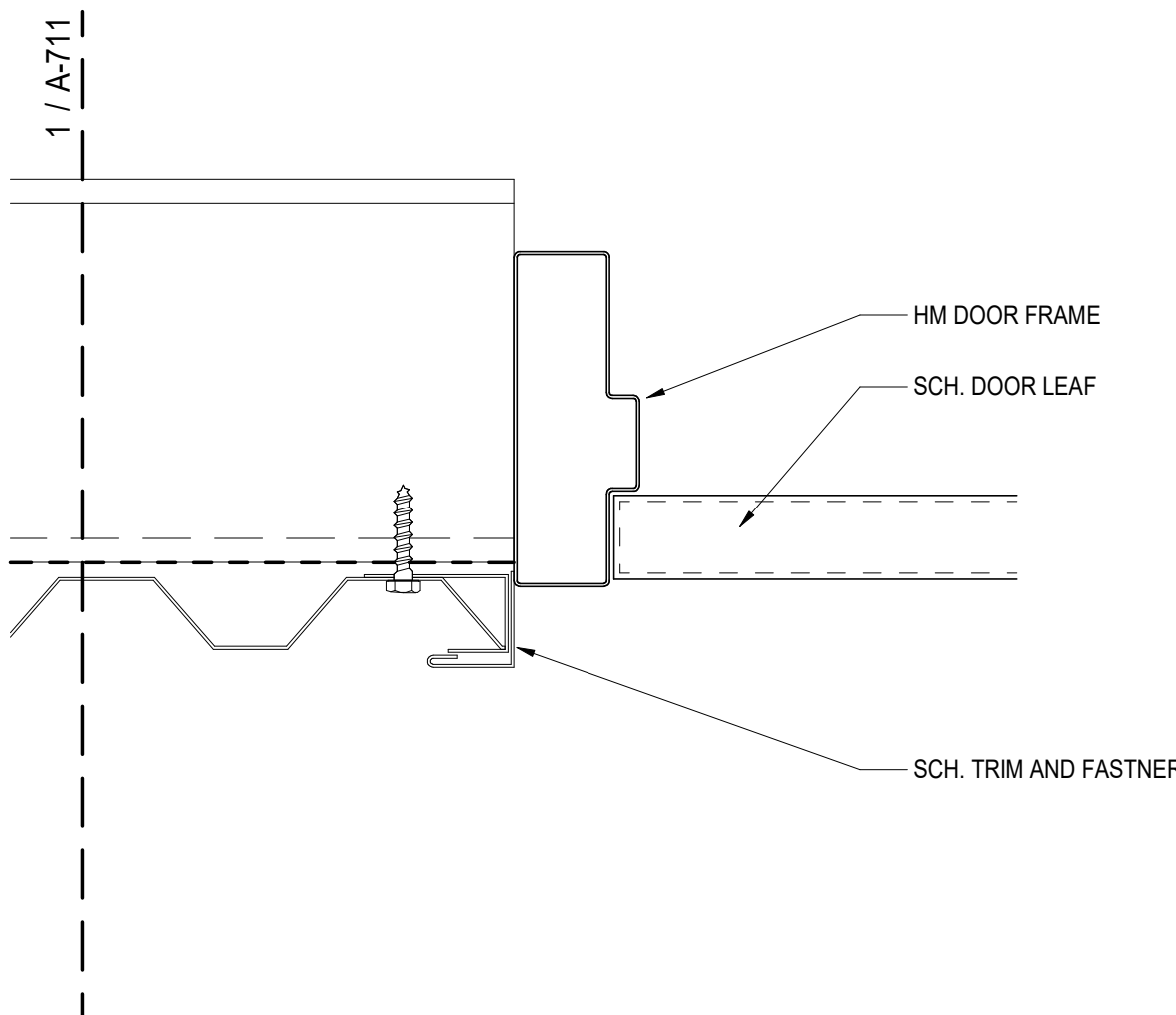
**H3** HM DOOR HEAD - ZEE, LINER PANEL  
 A-805 | 3" = 1'-0"



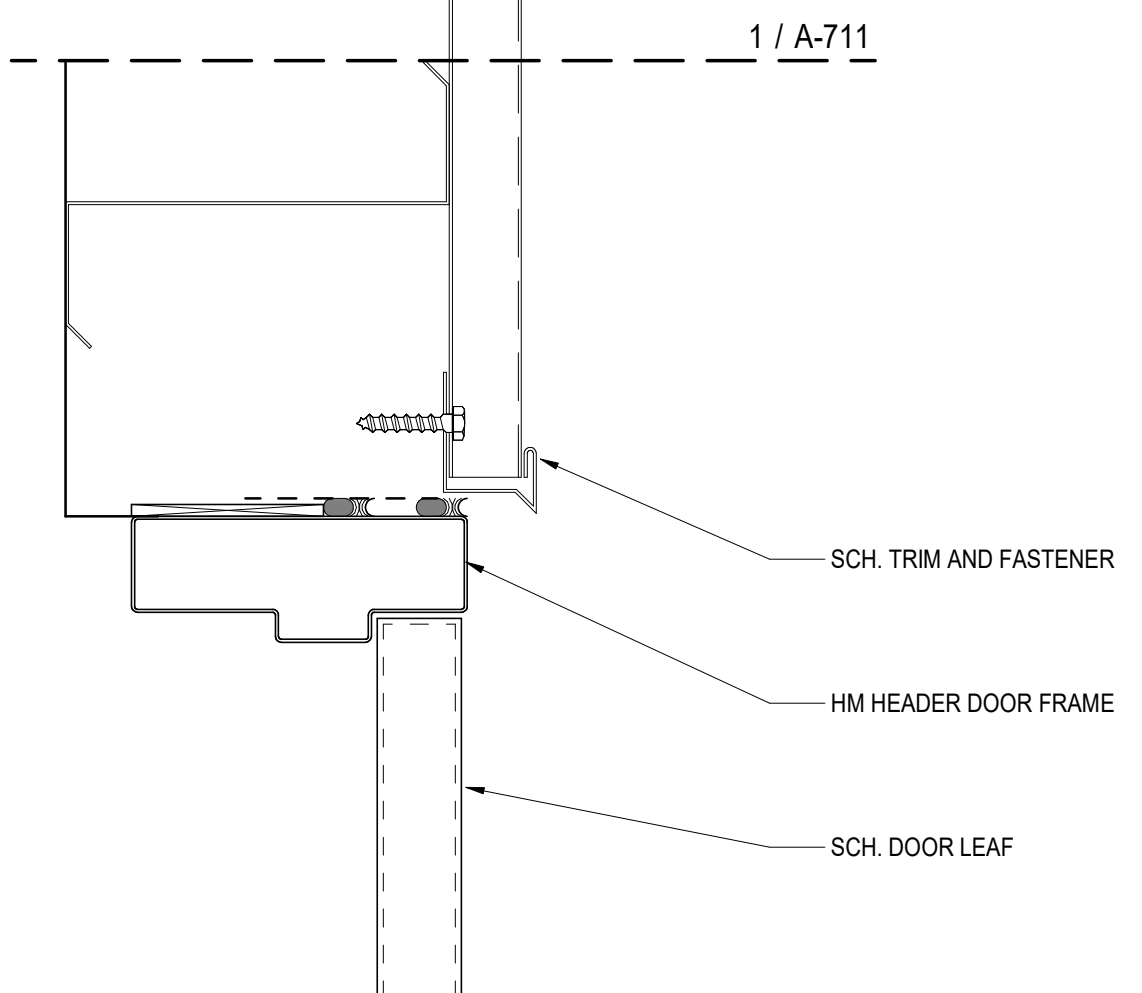
**J2** HM DOOR JAMB - METAL, INTERIOR  
 A-805 | 3" = 1'-0"



**H2** HM DOOR HEAD - METAL, INTERIOR  
 A-805 | 3" = 1'-0"



**J1** HM DOOR JAMB - ZEE, LINER PANEL Copy 1  
 A-805 | 3" = 1'-0"



**H1** HM DOOR HEAD - ZEE, VERT. MWP  
 A-805 | 3" = 1'-0"

**DRYWALL WAREHOUSE HWY 81**  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

**DOOR HEAD, JAMB & SILL DETAILS**

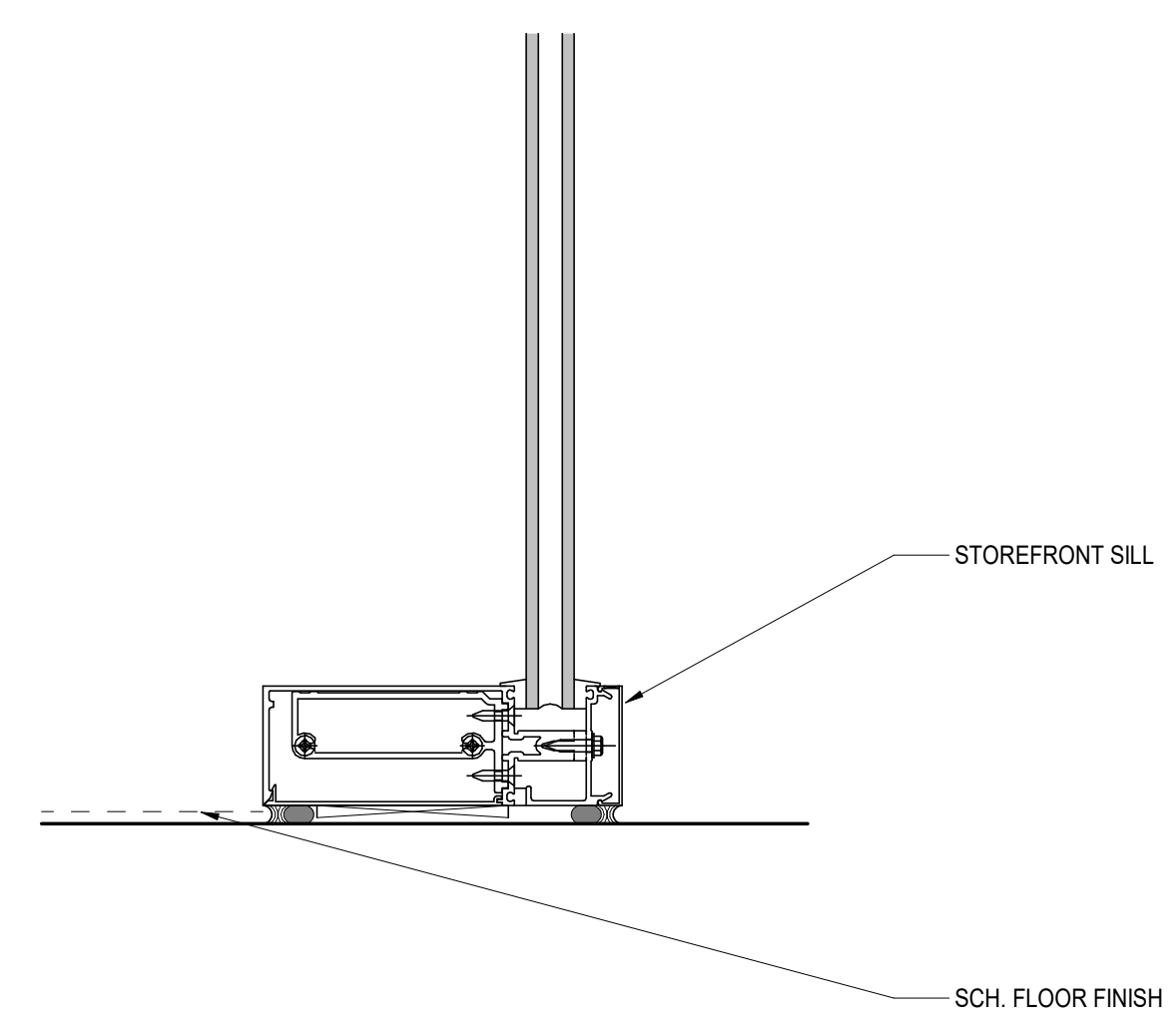
**A-805**

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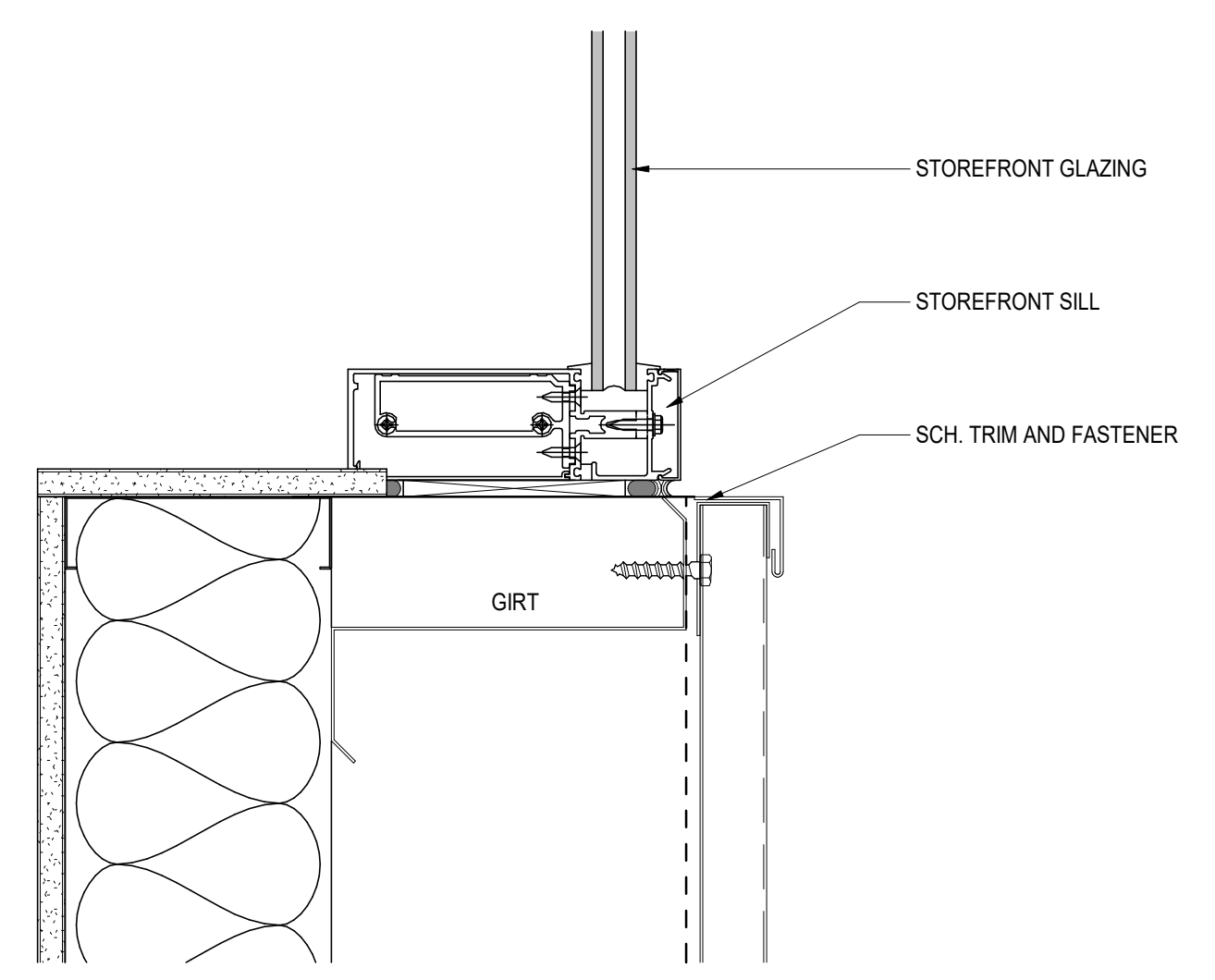


PROJECT NUMBER: 25-040

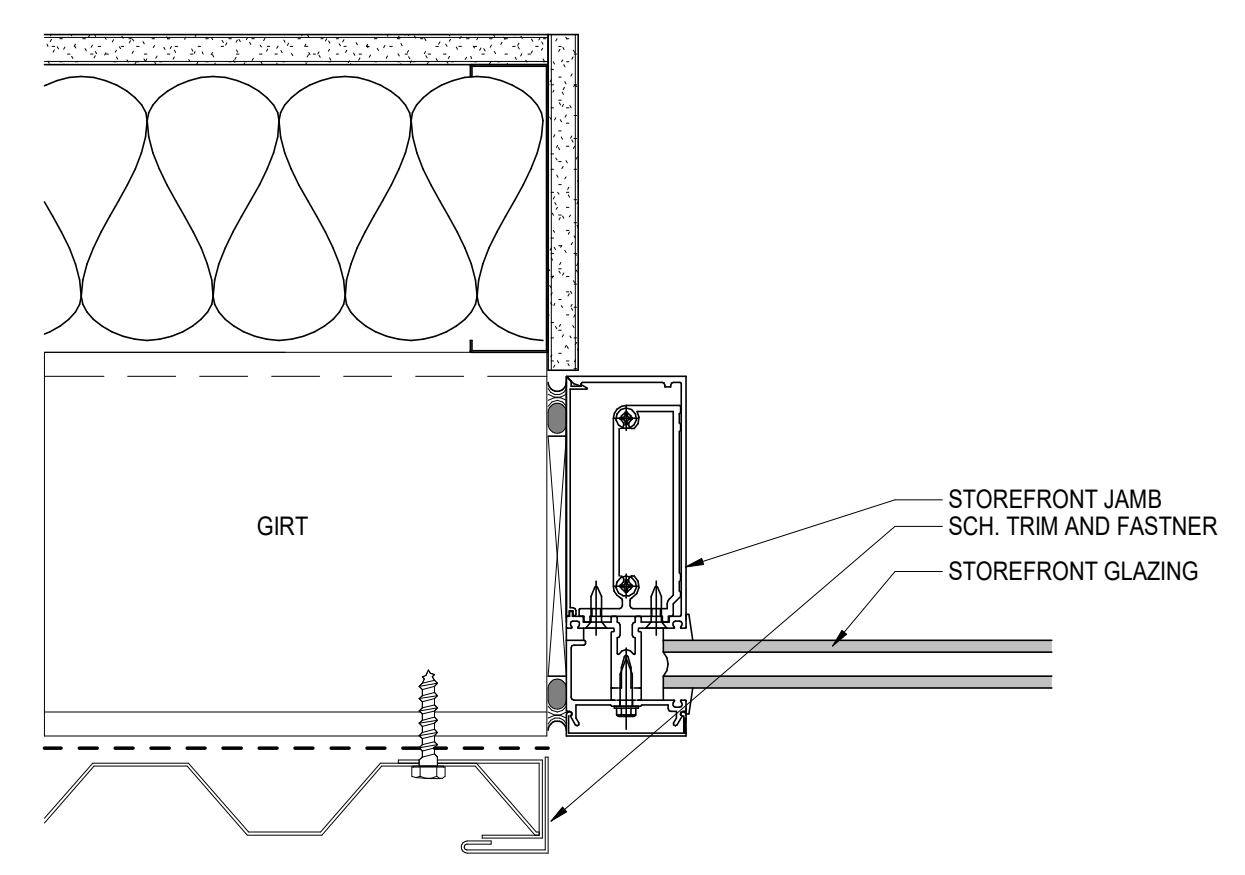
REVISIONS	NO.	DATE	ISSUE



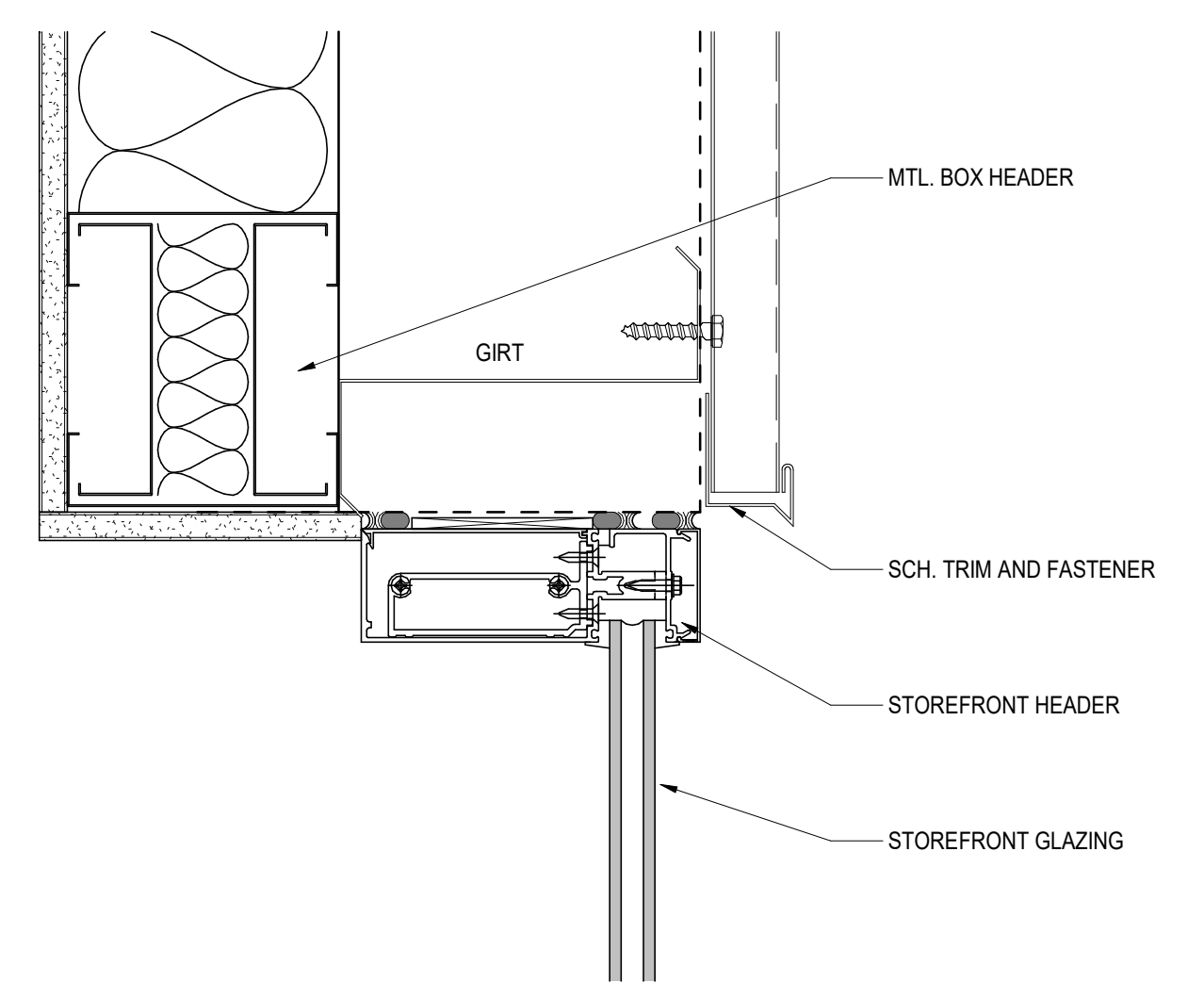
**S2** TYP. SF SILL  
 A-825 | 3" = 1'-0"



**J8** SF SILL - METAL, VERT. MWP  
 A-825 | 3" = 1'-0"



**J7** SF JAMB - METAL, VERT. MWP  
 A-825 | 3" = 1'-0"



**H7** SF HEAD - METAL, VERT. MWP  
 A-825 | 3" = 1'-0"

**DRYWALL WAREHOUSE HWY 81**

257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

**STOREFRONT HEAD, JAMB & SILL DETAILS**

**A-825**

ISSUED FOR CONSTRUCTION

**GENERAL NOTES:**

(THESE SPECIFICATIONS ARE IN ADDITION TO AND DO NOT EXCLUDE ANY FOUND IN THE GENERAL SPECIFICATIONS FOR THE PROJECT)

1. THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL MEASURES REQUIRED TO PROTECT THE STRUCTURE, WORKMEN, AND OTHER PERSONS DURING CONSTRUCTION, INCLUDING BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS REQUIRED. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.

2. SHOP DRAWINGS FOR STRUCTURAL STEEL, JOIST, DECKING, AND COLD FORMED METAL TRUSSES SUBMITTALS SHALL COMPLY WITH THE FOLLOWING:

A. CONTRACTOR SHALL FURNISH COMPLETE AND DETAILED SHOP DRAWINGS PREPARED UNDER SUPERVISION OF A REGISTERED STRUCTURAL ENGINEER. THESE DRAWINGS SHALL SHOW SIZES, LOCATION, TYPE AND EXTENT OF ALL MEMBERS, BOLTS AND WELDS.

B. INDICATE THE DATE OF THE STRUCTURAL DRAWINGS USED FOR SHOP DRAWING PREPARATION.

C. INDICATE WELDS BY STANDARD AWS SYMBOLS AND SHOW SIZE LENGTH AND TYPE OF EACH WELD.

D. PROVIDE SETTING DRAWINGS, TEMPLATES AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED BY OTHERS.

E. CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMITTAL FOR ENGINEERING REVIEW.

F. CONTRACTOR SHALL HAVE AN APPROVED SET OF STRUCTURAL STEEL SHOP DRAWINGS AND PROOF OF WELDER CERTIFICATION AT THE JOBSITE AT ALL TIMES.

G. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS.

H. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR BUILDING LOCATION AND ORIENTATION. COORDINATE ALL DIMENSIONS WITH ARCH. DRAWINGS. DO NOT SCALE DRAWING.

1. SECTIONS CUTS INDICATED ON THE DRAWINGS APPLY TO ALL LIKE AND SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE PLANS. COORDINATE SIMILAR CONDITIONS WITH ARCHITECTURAL, MECHANICAL, AND CIVIL DRAWINGS.

3. DESIGN LOADS: THE BUILDING STRUCTURE DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH THE 2024 INTERNATIONAL BUILDING CODE w/ ALL GEORGIA STATE AMENDMENTS. USE ASCE 7-22 CHAPTER 2 FOR ALL LOAD COMBINATIONS AND LOADS NOT INDICATED HEREIN.

A. GRAVITY LOADS:  
DEAD LOADS:  
ROOF: PER METAL BUILDING MANUFACTURER

LIVE LOADS:  
ROOF: 20 PSF (REDUCED PER CODE)  
FLOOR: 125 PSF (LIGHT STORAGE)  
CATEGORY 1 FORKLIFTS (10 KIP AXLE LOAD FORKLIFT TRUCK WITH A DESIGN INDEX OF 4)

B. SNOW LOADS:  
GROUND SNOW LOAD (Pg): 16 PSF  
BALANCED ROOF SNOW LOAD (P+RAIN): 24 PSF  
SNOW EXPOSURE FACTOR (Ce): 0.9  
THERMAL FACTOR (Ct): 1.0

C. WIND LOADS:  
BASIC WIND SPEED(3 SEC. GUST): 105 MPH (ULTIMATE DESIGN WIND SPEED)  
RISK CATEGORY: II  
EXPOSURE CATEGORY: B  
INTERNAL PRESSURE (GCp1): +/-0.18

REFER TO ASCE 7-22 FOR COMPONENT & CLADDING LOADS

DRIFT LIMIT FOR P.E.M.B w/ MASONRY VENEER H/20

D. SEISMIC DESIGN CRITERIA:  
SEISMIC IMPORTANCE FACTOR (Ie): 1.00  
RISK CATEGORY: II  
MAPPED SPECTRAL RESPONSE ACCELERATIONS:  
Ss: 0.250  
S1: 0.082  
SITE CLASS: D  
S(Ds): 0.207g  
S(D1): 0.127g  
SEISMIC DESIGN CATEGORY: B  
BASIC SEISMIC FORCE RESISTING SYSTEM:  
STEEL SYSTEM NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE  
SEISMIC RESPONSE COEFFICIENT (Cs): 0.0689  
RESPONSE MODIFICATION FACTORS (R): 3.0  
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

4. WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE AND SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS.

**FOUNDATION NOTES:**

1. SEE REINFORCED CONCRETE NOTES FOR CONCRETE STRENGTH REQUIRMENTS. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED TO 6% +/- 1 1/2%

2. SEE ARCHITECTURAL DRAWINGS FOR SIDE WALK EXTENTS, PLANTER, AND PAVAR LOCATIONS, CONCRETE PADS STAIRS, SEE ARCH. FOR DIMENSIONS AT INTERIOR MASONRY PARTITIONS, AND DETAILS.

3. COORDINATE FINISHED FLOOR ELEVATIONS (F.F.E.) WITH ARCH. AND CIVIL DRAWINGS.

4. REFERENCE FFE = 0.0'

5. FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING CAPACITY OF 2000 PSF.

6. ALL FOUNDATION EXCAVATIONS SHALL BE EVALUATED BY A GEORGIA REGISTERED GEOTECHNICAL ENGINEER OR TESTING AGENCY PRIOR TO PLACING ANY FOUNDATION CONCRETE. CONTACT STRUCTURAL ENGINEER IF THE ALLOWABLE SOIL BEARING PRESSURE IS LESS THAN 2000 PSF.

7. ALL EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 1'-8" BELOW F.F.E. AND A MINIMUM OF 0'-8" BELOW ADJACENT EXTERIOR FINISH GRADE, UNLESS NOTED OTHERWISE

8. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING OR NEW UTILITIES. LOWER FOUNDATION AS REQUIRED TO AVOID INTERFERENCE WITH UTILITIES. EXCEPT WHERE ZERO LOT LINE FOOTINGS ARE LOCATED PARALLEL TO ADJACENT BUILDINGS. REFER TO THE FOUNDATION FOUNDATION PLAN FOR FOOTING STEPS AT ADJACENT BUILDINGS - CONTACT ARCH/STRUCTURAL ENGINEER IF A CONFLICT OCCURS.

9. CONSULT WITH A GEORGIA REGISTERED GEOTECHNICAL REPORT FOR GENERAL REQUIREMENTS OF EARTHWORK, OVEREXCAVATION, SUBGRADE PREPARATION, FILL AND COMPACTION, WATERPROOFING AND OTHER PERTINENT REQUIREMENTS AND INFORMATION. IF THERE IS A CONFLICT BETWEEN GEOTECHNICAL ENGINEER AND STRUCTURAL PLANS THEN THE MORE STRINGENT CRITERIA SHALL APPLY UNLESS OTHERWISE DIRECTED BY AN RFI.

11. PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS WITH 1/2" INCH EXPANSION MATERIAL. LOWER CONTINUOUS FOOTING AND GRADE BEAMS PERPENDICULAR TO PIPE RUNS TO ALLOW PIPES TO PASS ABOVE THE FOOTINGS OR THROUGH THE GRADE BEAMS. ALTERNATIVELY, PROVIDE A CONCRETE JACKET IF PIPES ARE LOW ENOUGH TO BE PLACED BELOW THE FOOTINGS AND GRADE BEAMS PARALLEL TO PIPE RUNS TO AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.

12. ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR CUT AND FILL OPERATIONS AND PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COMPACTION AND APPROVE FOOTING SUBGRADES PRIOR TO PLACING CONCRETE.

**CONCRETE SLAB NOTES:**

1. SEE REINFORCED CONCRETE NOTES FOR CONCRETE STRENGTH REQUIREMENTS.

2. FLOOR SLABS ON GRADE SHALL BE FLOOR SLAB SHALL BE 6" THICK 4000 PSI CONCRETE REINFORCED w/ 6X6-W2.1/W2.1 WWR. SEE CIVIL PLANS FOR FINISHED FLOOR ELEVATIONS. COORDINATE VAPOR BARRIER REQUIREMENTS w/ ARCHITECTURAL AND GEOTECHNICAL ENGINEER REQUIREMENTS. PROVIDE 10 MIL (MIN) POLYETHYLENE VAPOR BARRIER WITH JOINTS LAPED 6" AND TAPED UNDER ALL INTERIOR SLABS. REFER TO GEOTECHNICAL ENGINEER FOR BELOW SLAB ON GRADE, SUBGRADE PREPARATION REQUIREMENTS.

3. WHERE SPECIFIC CONTROL JOINT LOCATIONS ARE NOT INDICATED, PROVIDE CONTROL/CONSTRUCTION JOINTS SUCH THAT NO AREA EXCEEDS 324 SQUARE FEET NOR SHALL THE LENGTH OF ANY PANEL EXCEED 1.5 TIMES THE WIDTH. SEE DETAILS ON S3.1 AND ARCHITECTURAL CONCRETE PLACEMENT PLAN.

4. CONDUITS AND PIPES EMBEDDED IN SLABS: SHALL NOT BE LARGER IN OUTSIDE DIMENSION THAN ONE-THIRD THE OVERALL THICKNESS OF THE SLAB. SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER. A MINIMUM SLAB THICKNESS OF 2 1/2" MUST BE MAINTAINED OVER THE EMBEDDED CONDUITS OR PIPES.

5. COORDINATE THE EXACT LOCATION AND EXTENTS OF ALL FLOOR SLOPES, RECESSED AREAS AND DRAIN LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.

**REINFORCED CONCRETE NOTES:**

1. STRUCTURAL MEMBERS OF REINFORCED CONCRETE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI318.

2. ALL CONCRETE SHALL HAVE A SLUMP OF 4" (+/-1") (SUPER PLASTICIZER/WATER REDUCING ADMIXTURES MAY BE ADDED TO ANY MIX PER THE PROJECT SPECIFICATIONS AND THE APPROVED MANUFACTURERS SPECIFICATIONS TO INCREASE WORKABILITY AND/OR TO IMPROVE THE FLOW CHARACTERISTICS OF CONCRETE. KEYSTONE STRUCTURAL ENGINEERING, P.C. HAS NO CONTROL OVER OR PREDICTION OF THE IMPACT ON SLUMP OF ADDING SUCH SUPER PLASTICIZER/WATER REDUCING ADMIXTURES) AND A MINIMUM 28 DAY COMPRESSIVE STRENGTH:  
A. FOOTINGS: 3000 PSI (0.50 MAXIMUM WATER/CEMENT RATIO)  
B. WALLS: 3000 PSI (0.50 MAXIMUM WATER/CEMENT RATIO)  
C. SLAB ON GRADE: 4000 PSI (540 LBS/CUBIC YARD MINIMUM CEMENTITIOUS MATERIAL & 0.50 MAXIMUM WATER/CEMENT RATIO)

3. LIMIT PERCENTAGE, BY WEIGHT, OF CEMENTITIOUS MATERIALS OTHER THAN PORTLAND CEMENT IN CONCRETE TO 25%.

4. AIR CONTENT: 6% (+/- 1.5%) AT POINT OF DELIVERY FOR 1" NOMINAL MAXIMUM AGGREGATE SIZE.

5. AIR CONTENT: DO NOT ALLOW AIR CONTENT OF TROWEL-FINISHED FLOORS TO EXCEED 3%.

6. ALL STEEL REINFORCEMENT SHALL BE ASTM 615-GRADE 60. ALL WELDED STEEL REINFORCEMENT SHALL BE ASTM A706-GRADE 60. WELDED WIRE REINFORCEMENT SHALL BE ASTM A185. ALL WELDED REINFORCEMENT SHALL BE IN ACCORDANCE WITH AWS D1.4.

7. MINIMUM CONCRETE COVER FOR REINFORCING STEEL: (UNO)

A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"

B. CONCRETE EXPOSED TO EARTH AND WEATHER:  
#5 REBAR AND SMALLER: 1 1/2"  
#6 REBAR AND LARGER: 2"

C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH.

SLABS, WALLS, AND JOISTS:  
#14 OR #18 REBARS: 1 1/2"  
#11 REBAR AND SMALLER: 3/4"  
BEAMS AND COLUMNS: 1 1/2"

8. UNLESS NOTED OTHERWISE, CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING STEEL ADDED AROUND ALL OPENINGS:  
2-#5 (LENGTH OF OPENING+ 48") ALONG EACH SIDE OF OPENING AND TWO (2)-#5X5'-0" DIAGONALLY AT EACH CORNER.

9. ALL CONCRETE COMPRESSIVE STRENGTH TESTS SHALL BE AVAILABLE AT JOB SITE.

10. ALL LAP SPLICE LENGTHS SHALL BE AS SHOWN IN TABLE 2 THIS SHEET

**STEEL NOTES:**

1. STRUCTURAL STEEL:  
A. SHALL CONFORM TO THE LATEST STANDARDS OF ASTM:  
WIDE FLANGE BEAMS: A992  
OTHER STRUCTURAL STEEL SHAPES, PLATES AND BARS: A36  
HOLLOW STRUCTURAL STEEL SECTIONS (ROUND AND RECTANGULAR): A500 GRADE B  
STRUCTURAL STEEL PIPE: A53 GRADE B

B. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360-16) USING ALLOWABLE STRESS DESIGN.

2. WELDS:  
A. PROVIDE MINIMUM SIZE OF FILLET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL.

B. HEADED STUDS (SHEAR AND ANCHOR) AND DEFORMED ANCHORS:  
PROVIDE HEADED STUDS (SHEAR AND ANCHOR) MADE OF MATERIAL CONFORMING TO ASTM A 108.  
(1) PROVIDE DEFORMED ANCHORS MADE OF MATERIAL CONFORMING TO ASTM A 496.  
(2) WELD STUDS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. MANUAL ARC (STICK) WELDING OF HEADED STUDS AND/OR DEFORMED ANCHORS IS NOT ALLOWED.

3. COLD FORMED STEEL FRAMING  
A. COLD FORMED STEEL FRAMING STRENGTH CRITERIA:  
(1) 18 MIL-43 MIL - 33 KSI MIN. YIELD STRESS  
(2) 54 MIL-97 MIL - 50 KSI MIN. YIELD STRESS  
(3) RUNNER TRACK - 33 KSI MIN. YIELD STRESS (UNO)

B. ATTACH METAL FRAMING TO PRIMARY STRUCTURE WITH A DEFLECTION TRACK OR A STEEL NETWORK INC. VERTICAL DEFLECTION CLIPS CAPABLE OF ALLOWING 1" OF VERTICAL DEFLECTION IF WALL FRAMING IS SUPPORTED BY SLAB ON GRADE OR OTHER RIGID SUPPORT.

C. PLACE ALL COLD-FORMED STEEL STUD WALL BRIDGING HORIZONTALLY WITH A MAXIMUM VERTICAL SPACING OF 4 FEET UNLESS NOTED OTHERWISE. AS AN OPTION, CONTINUOUS COLD-FORMED CHANNELS MAY BE POSITIONED THROUGH THE STUD PUNCH OUTS AS BRIDGING PROVIDED THE CHANNEL IS PROPERLY FASTENED TO EACH STUD. PROVIDE MANUFACTURER'S RECOMMENDED BRIDGING TO BOTH FLANGES OF MEMBER IF FLANGE IS NOT PERMANENTLY BRACED WITH GYPSUM OR PLYWOOD SHEATHING.

D. PLUMB, ALIGN, AND SECURELY ATTACH STUDS TO THE FLANGES OF BOTH UPPER AND LOWER RUNNERS. SPLICES IN STUDS ARE NOT PERMITTED.

E. PROVIDE HEADERS AND SUPPORTING STUDS FOR FRAMING OF WALL OPENINGS.

F. STABILITY BRIDGING SHALL BE INSTALLED AT A MAXIMUM 4'-0" O.C. FOR SUSPENDED SOFFITS UNLESS NOTED OTHERWISE.

4. METAL STUD FASTENERS:  
A. SCREW CONNECTIONS  
USE #10-16 KWIK-FLEX SELF-DRILLING SCREWS OR APPROVED EQUAL UNLESS OTHERWISE NOTED. 4 SCREWS PER CONNECTION MIN., UNLESS NOTED OTHERWISE OR A PRE-ENGINEERED TRUSS.

B. POWER DRIVEN FASTENERS:  
(1) FASTENING TO CONCRETE:  
USE 0.145" DIA. DOME HEAD NAIL TYPE "X-ZF" BY HILTI OR APPROVED EQUAL UNLESS NOTED OTHERWISE. MIN. EMBEDMENT = 1 1/4" MIN. EDGE DISTANCE = 2"  
MIN. SPACING = 3" MAX. SPACING = 12"

(2) FASTENING TO STEEL:  
USE 0.145" DIA. DOME HEAD KNURLED SHANK FASTENER TYPE "X-EDN" BY HILTI OR APPROVED EQUAL UNLESS NOTED OTHERWISE. MIN. EMBEDMENT = FULL PENETRATION MIN. EDGE DISTANCE = 1/2"  
MIN. SPACING = 1 1/2" MAX. SPACING 12"  
(3) PINS SHALL BE LOCATED 1/2" FROM OUTSTANDING LEG OF CLIP ANGLES WHERE ATTACHING TO STRUCTURAL STEEL ANGLES.

5. PRE-ENGINEERED METAL STUD TRUSSES:  
A. PRE-ENGINEERED TRUSSES AND THEIR ATTACHMENT TO THE STRUCTURAL STEEL FRAMING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. SHOP DRAWINGS SHALL BE SUBMITTED TO ARCH. FOR REVIEW.

B. METAL STUD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH AISI-TRUSS.

**POST-INSTALLED ANCHORS:**

1) EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC.

a) ANCHORAGE TO CONCRETE  
i) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:  
(1) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-3187.

b) REBAR DOWELING INTO CONCRETE  
i) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:  
(1) HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT SYSTEM WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187.

c) ANCHORAGE TO SOLID GROUTED MASONRY  
i) ADHESIVE ANCHORS USE:  
(1) HILTI HIT-HY 200 MASONRY ADHESIVE ANCHORING SYSTEM.  
(2) STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR

d) ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY  
i) ADHESIVE ANCHORS USE:  
(1) HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM PER ICC ESR-3342.  
(2) STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR.  
(3) THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION

2) ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

3) INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ON-SITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

6) ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS AND IN MANUFACTURERS INSTALLATION INSTRUCTIONS.

7) ALL POST INSTALLED ANCHORS SHALL BE INSPECTED BY THE SPECIAL INSPECTOR TO INSURE INSTALLATION PROCEDURES ARE FOLLOWED AND ANCHORS ARE INSTALLED PER THE CONTRACT DOCUMENTS.

1. STANDARD SSMA METAL FRAMING:

A. METAL STUD STRENGTH CRITERIA:  
1. 18 MIL TO 43 MIL - 33 KSI MIN. YIELD STRESS  
2. 54 MIL TO 118 MIL - 50 KSI MIN. YIELD STRESS  
3. RUNNER TRACK - 33 KSI MIN. YIELD STRESS (UNO)  
DO NOT USE STUDS LESS THAN 43 MIL FOR ANY EXTERIOR WALL USED TO BACK-UP BRICK VENEER.

B. ATTACH METAL FRAMING TO PRIMARY STRUCTURE WITH A DEFLECTION TRACK OR A STEEL NETWORK INC. VERTICAL DEFLECTION CLIPS CAPABLE OF ALLOWING 1" OF VERTICAL DEFLECTION.

2. METAL STUD FASTENERS:  
A. SCREW CONNECTIONS  
USE #10-16 KWIK-FLEX SELF-DRILLING SCREWS OR APPROVED EQUAL UNLESS OTHERWISE NOTED.  
4 SCREWS PER CONNECTION MIN., UNLESS NOTED OTHERWISE OR A PRE-ENGINEERED TRUSS.  
B. POWER DRIVEN FASTENERS:

1. FASTENING TO CONCRETE:  
USE 0.145" DIA. DOME HEAD NAIL TYPE "X-ZF" BY HILTI OR APPROVED EQUAL UNLESS NOTED OTHERWISE. MIN. EMBEDMENT = 1 1/4" MIN. EDGE DISTANCE = 2"  
MIN. SPACING = 3" MAX. SPACING = 12"

2. FASTENING TO STEEL:  
USE 0.145" DIA. DOME HEAD KNURLED SHANK FASTENER TYPE "X-EDN" BY HILTI OR APPROVED EQUAL UNLESS NOTED OTHERWISE. MIN. EMBEDMENT = FULL PENETRATION MIN. EDGE DISTANCE = 1/2"  
MIN. SPACING = 1 1/2" MAX. SPACING 12"

**SPECIAL INSPECTION NOTES:**

A. THE SPECIAL INSPECTOR SHALL BE ENGAGED BY THE OWNER. SPECIAL INSPECTOR SHALL BE FULLY QUALIFIED, APPROVED BY THE BUILDING OFFICIAL, REGISTERED BY APPLICABLE REGISTRATION BOARD IF REQUIRED BY THE LOCAL BUILDING OFFICIAL, AND SHALL BE ACCEPTABLE TO THE ARCHITECT.

B. THE SPECIAL INSPECTOR SHALL PROVIDE VERIFICATION OF CONSTRUCTION QUALITY CONTROL INSPECTIONS AND TESTING. THE SPECIAL INSPECTOR SHALL CERTIFY THAT ALL WORK REQUIRING INSPECTION IS PERFORMED IN COMPLIANCE WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS, BUILDING CODE REQUIREMENTS AND LOCAL BUILDING DEPARTMENT REQUIREMENTS.

C. SPECIAL INSPECTIONS ARE REQUIRED FOR THE ITEMS NOTED IN THE STATEMENT OF SPECIAL INSPECTIONS AND THE 2024 IBC CHAPTER 17. THE CONTRACTOR SHALL OBTAIN A COPY OF THE STATEMENT OF SPECIAL INSPECTIONS AND NOTIFY THE SPECIAL INSPECTOR WHEN WORK IS READY TO BE INSPECTED.

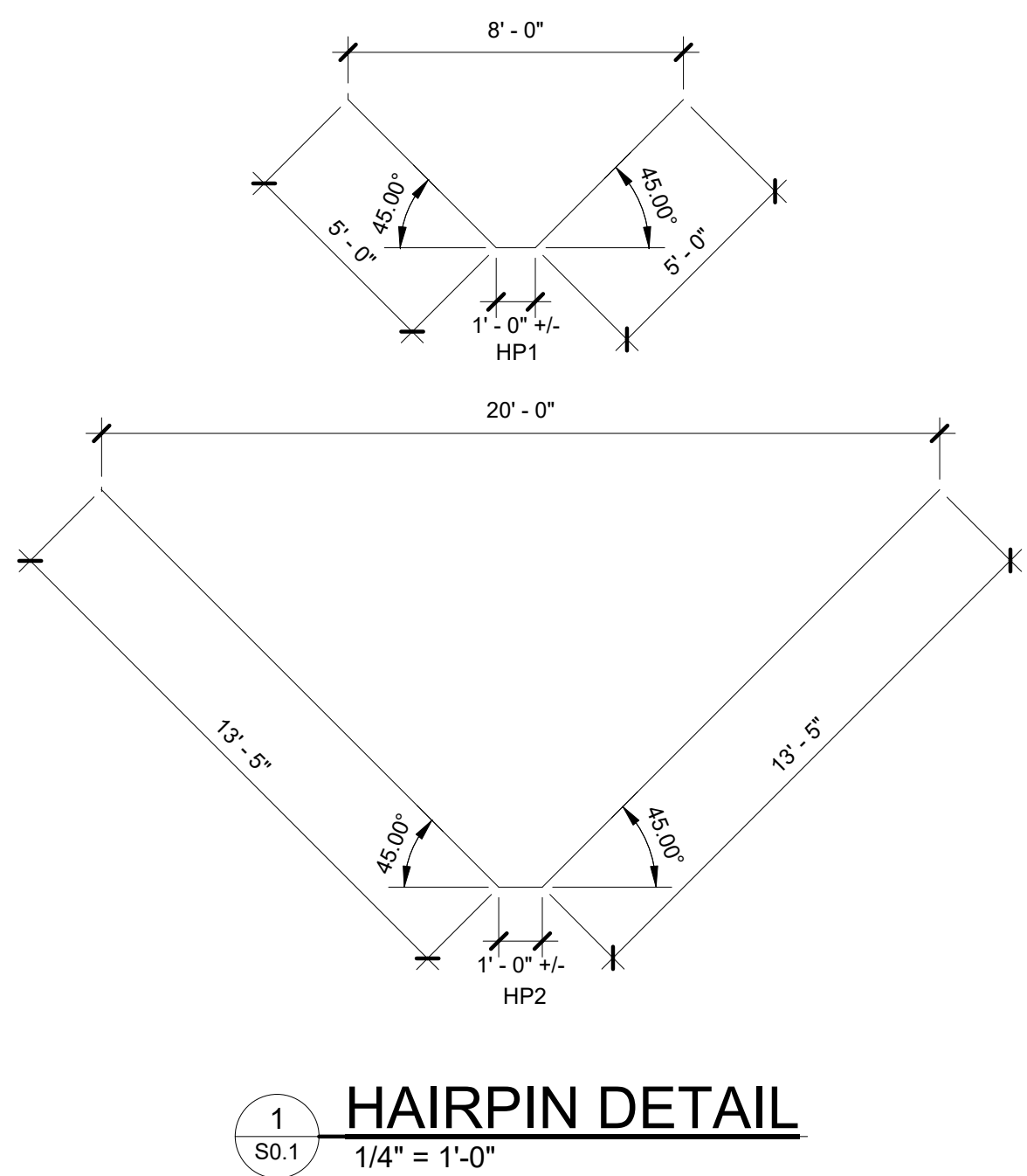
D. FAILURE TO NOTIFY THE SPECIAL INSPECTOR PRIOR TO OBSCURING AN ITEM REQUIRING INSPECTION MAY RESULT IN THE CONTRACTOR REMOVING OTHER WORK TO ALLOW INSPECTION. THIS WORK WILL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE. FAILURE TO HAVE REQUIRED ITEMS INSPECTED IS REASON FOR REJECTION OF THE WORK.

E. PREMATURE NOTIFICATION FOR INSPECTIONS WILL RESULT IN ADDITIONAL INSPECTION WITH ALL EXPENSES AND FEES PAID FOR BY THE CONTRACTOR.

F. SEE SHEET S5.1 FOR SPECIAL INSPECTION CHECKLIST.

BAR SIZE	f <sub>c</sub> =3000 PSI	f <sub>c</sub> =4000 PSI
#3	25	21.3
#4	33	29
#5	41	36
#6	49	43
#7	72	62

FOB: FACE OF BRICK	LO: LOW CONDITION
FOA: FACE OF ANGLE	HI: HIGH CONDITION
FOS: FACE OF STUD	TOW: TOP OF WALL
TOB: TOP OF BEAM	SDS: SELF DRILLING SCREW
BOC: BOTTOM OF CHANNEL	FOC: FACE OF CHANNEL
T&B: TOP AND BOTTOM	TOF: TOP OF FOOTING
TOA: TOP OF ANGLE	SIM: SIMILAR CONDITION
BOA: BOTTOM OF ANGLE	W.P.: WORKING POINT
LLV: LONG LEG VERTICAL	UNO.: UNLESS NOTED OTHERWISE
LLH: LONG LEG HORIZONTAL	B.P.: BASE PLATE
SW: MASONRY SHEAR WALL	PAF: POWER ACTUATED FASTENERS
TOS: TOP OF SLAB	S.F: STEP FOOTING
T/COL: TOP OF COLUMN	BI/COL: BOTTOM OF COLUMN
P.E.M.B: PRE-ENGINEERED METAL BUILDING	FOT: FACE OF TUBE



**K**  
**Keystone Structural Engineering**  
Professional Consultants  
531 Roselane Street  
Suite 150  
Marietta, GA 30060  
(404) 483 6921

Rev. No.	Date	Name

ISSUED FOR CONSTRUCTION

PROJECT

**DRYWALL WAREHOUSE HWY 81**

ADDRESS  
257 Highway 81  
Oxford, GA 30054

CLIENT

**CSC DESIGN, INC.**  
ARCHITECTS & ENGINEERS

ADDRESS  
135 P. Rickman Industrial Dr.  
Suite 100, Canton, GA 30115

SHEET TITLE

**STRUCTURAL GENERAL NOTES & SCHEDULES**

Date: 04/20/2026

PROJECT NUMBER  
26-149

SHEET NUMBER

**S0.1**







Rev. No.	Date	Name

ISSUED FOR CONSTRUCTION

PROJECT  
**DRYWALL WAREHOUSE HWY 81**

ADDRESS  
257 Highway 81  
Oxford, GA 30054

CLIENT  
**CSC DESIGN, INC.**  
ARCHITECTS & ENGINEERS

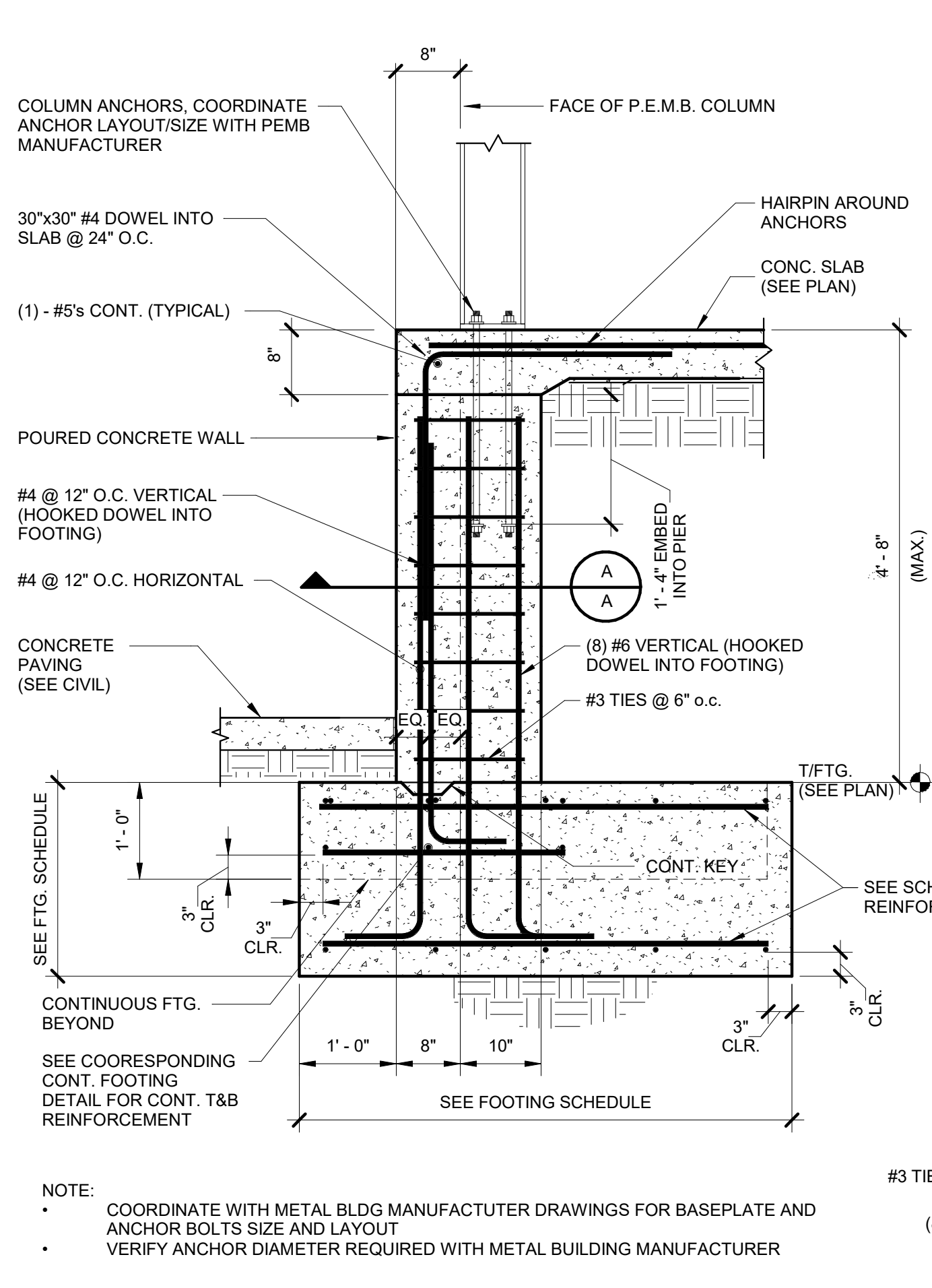
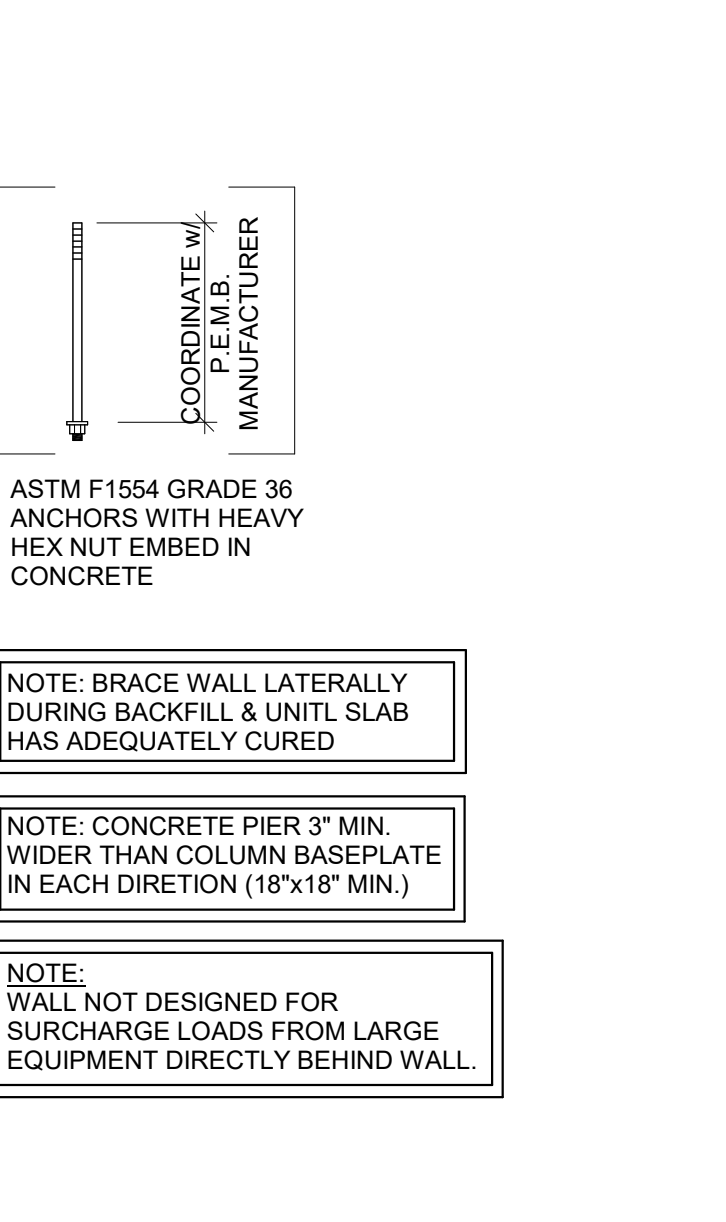
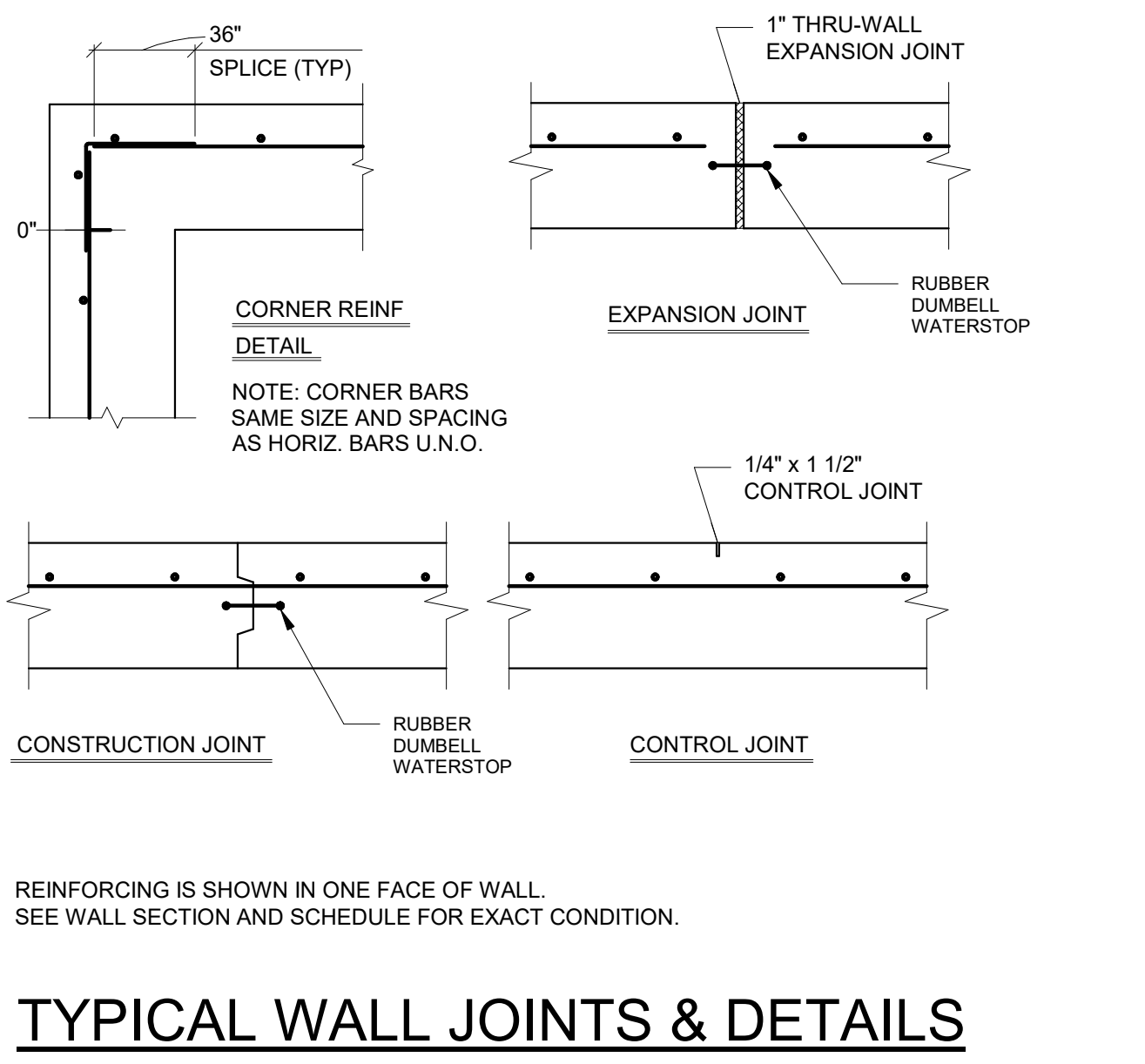
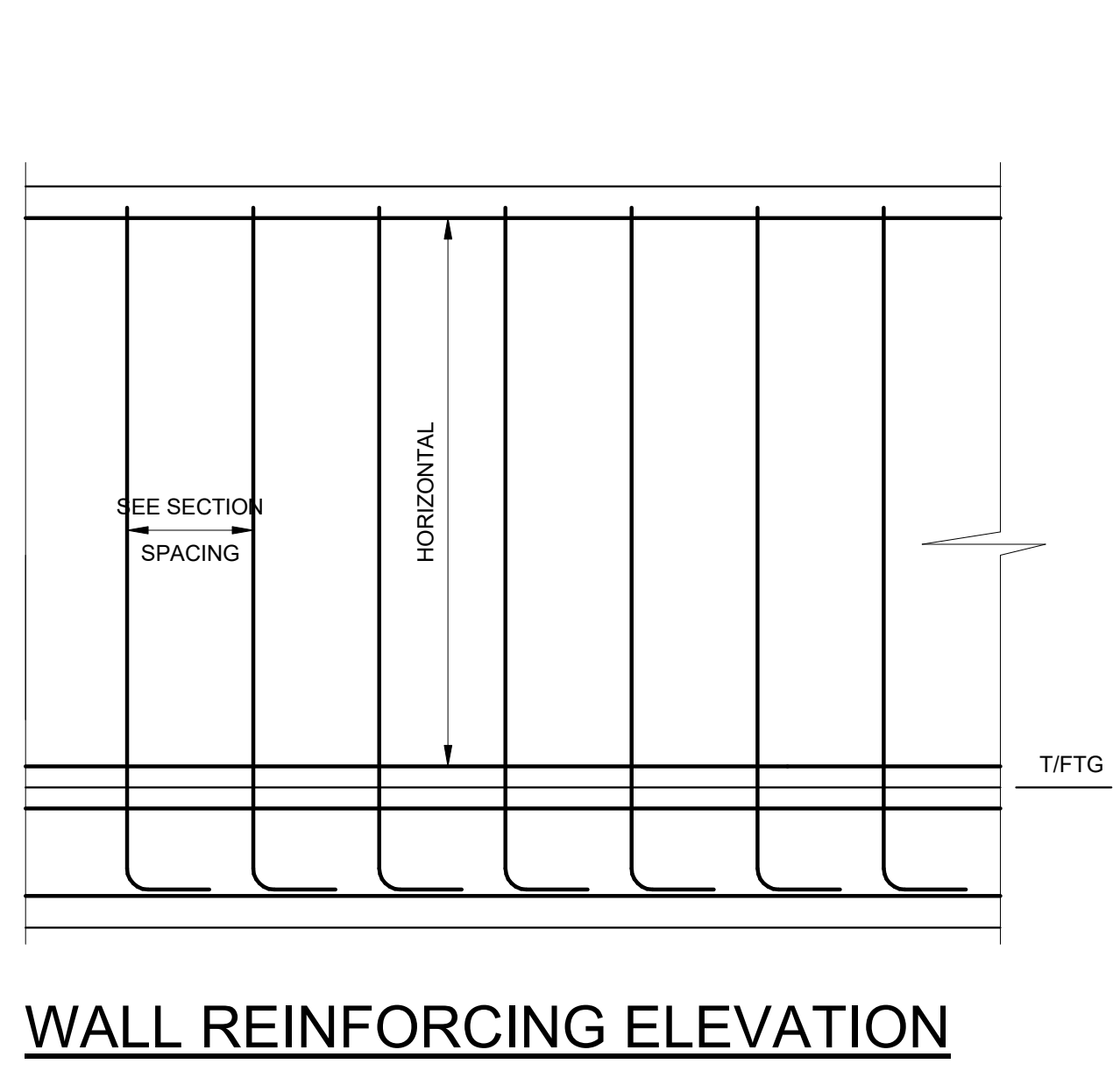
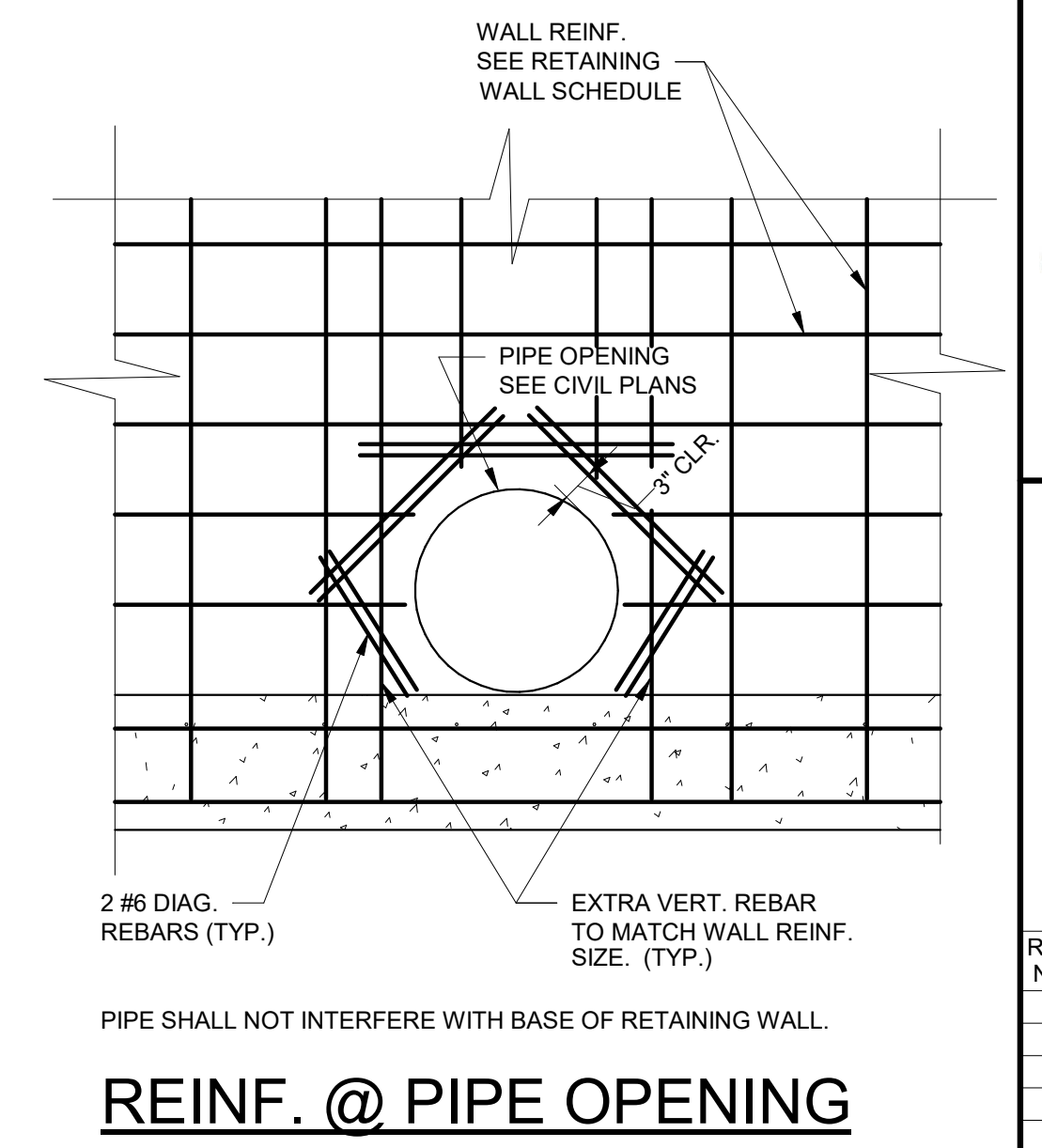
ADDRESS  
135 P. Rickman Industrial Dr.  
Suite 100, Canton, GA 30115

SHEET TITLE  
**FOUNDATION DETAILS**

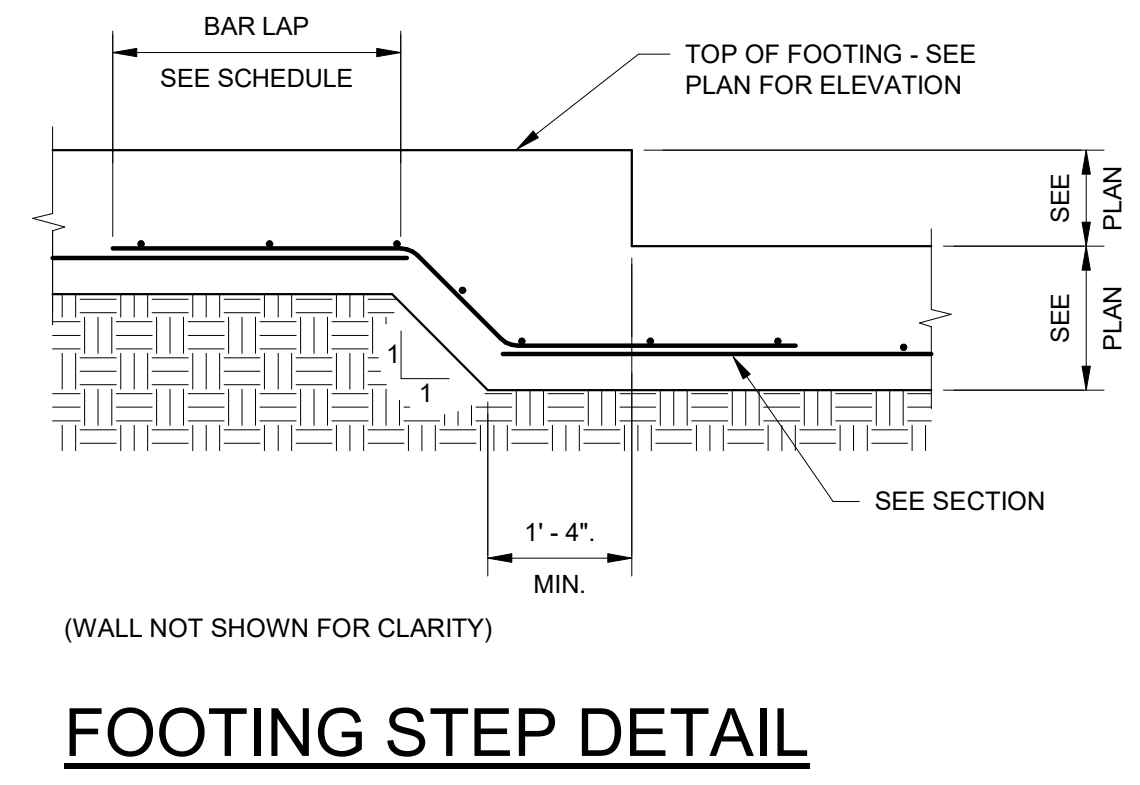
Date:  
04/20/2026

PROJECT NUMBER  
26-149

SHEET NUMBER  
**S3.2**



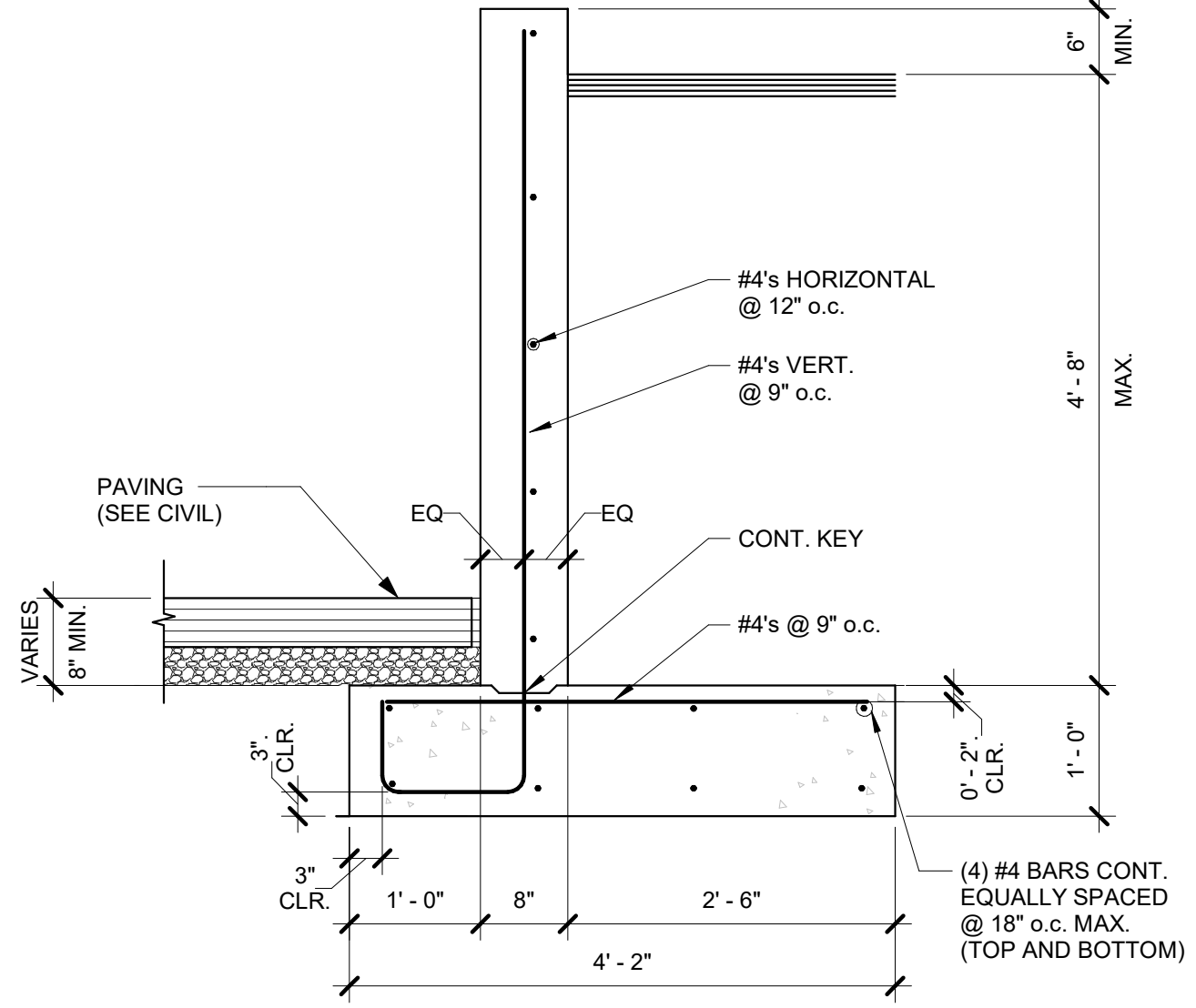
**1 FOUNDATION SECTION**  
3/4" = 1'-0"



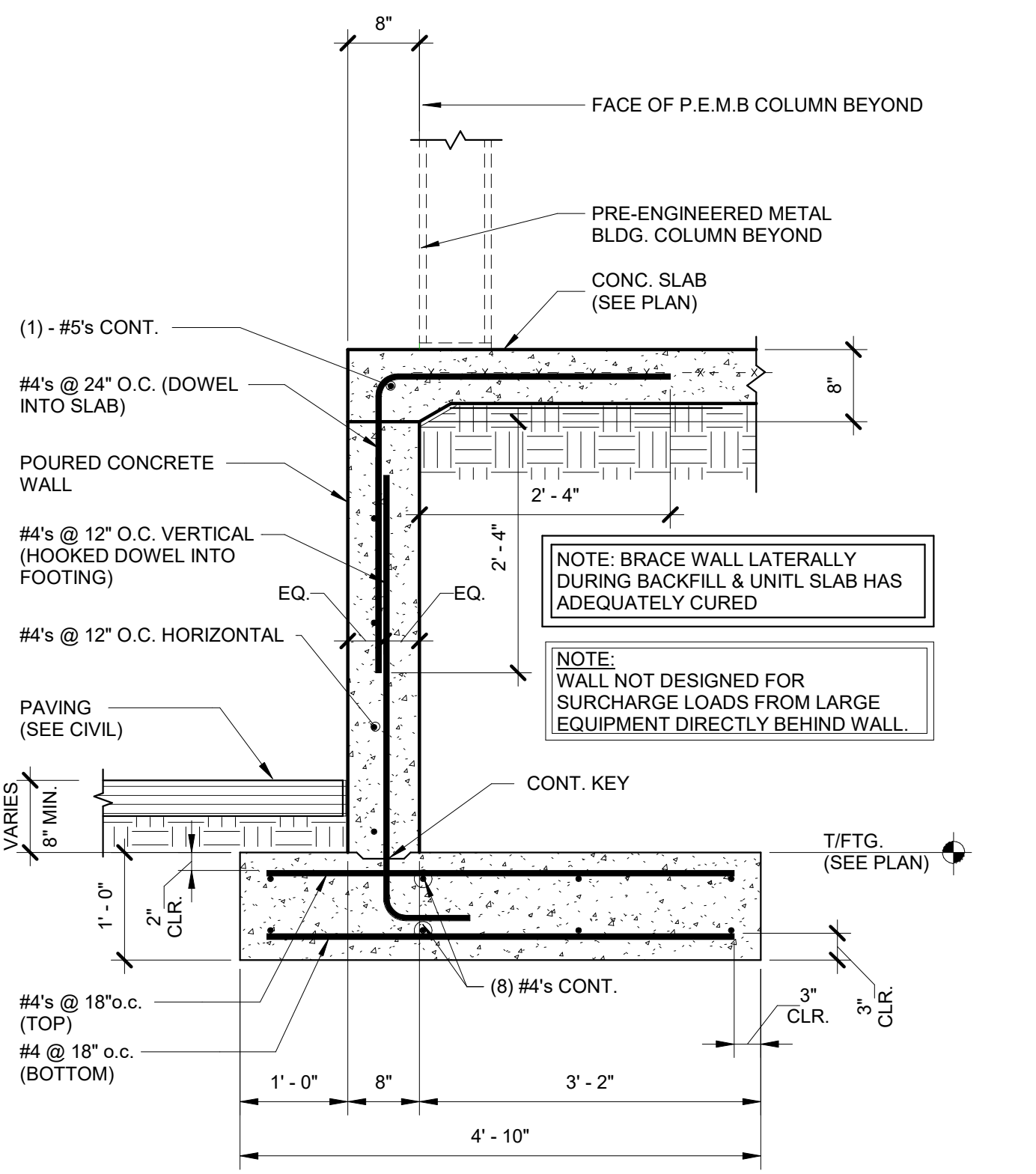
BAR SIZE	f <sub>c</sub> =3000 PSI	f <sub>c</sub> =4000 PSI
#3	25	21.3
#4	33	29
#5	41	36
#6	49	43
#7	72	62

**FOOTING STEP DETAIL**

- RETAINING WALL NOTES**
- All concrete to have 2000 psi compressive strength at 28 days unless otherwise noted.
  - Design parameters to be verified by geotechnical engineer.  
Soil bearing pressure : 2000psf  
Equivalent fluid pressure : 40.0 pcf (Cantilever)  
Equivalent fluid pressure : 60.0 pcf (Basement)  
Friction factor : 0.4
  - Reinforcing steel:
    - Shall be detailed, fabricated and placed according to the latest standards of the A.C.I.
    - Provide corner bars at all corners of the same size and number as the larger of the adjacent bars.
    - Shall conform to the latest standards of ASTM A 615 Grade 60.
    - Contractor to submit shop drawings to the Architect for approval prior to fabrication.
  - Wall joints:
    - Full height vertical weakened plane contraction joints shall be located at 25' o.c. maximum spacing. Alternate longitudinal bars shall be cut exactly opposite such contraction joints.
    - Keved full height vertical expansion joints shall be substituted at every fourth contraction joint or 100' maximum. Joints to have asphalt impregnated fiber board filler or similar, with all longitudinal bars cut opposite such expansion joints.
    - Construction joints between successive pours of concrete to be keyed (metal Keykold or similar).
    - Construction joint may be substituted for any control joint.
  - Backfill:
    - DO NOT backfill above retaining wall heel (behind wall) until 7 days after concrete floor slab and concrete paving has been installed
    - Compact backfill per requirements of the Soils Engineer.



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



**2 FOUNDATION SECTION**  
3/4" = 1'-0"

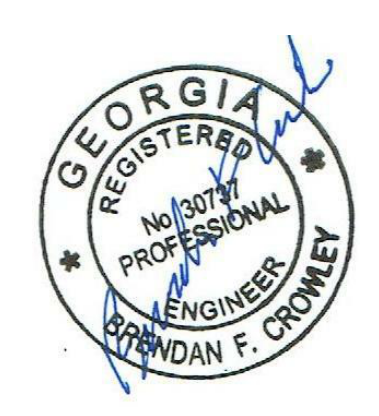


Table with 3 columns: Rev. No., Date, Name

ISSUED FOR CONSTRUCTION

PROJECT DRYWALL WAREHOUSE HWY 81 ADDRESS 257 Highway 81 Oxford, GA 30054

CLIENT CSC DESIGN, INC. ARCHITECTS & ENGINEERS ADDRESS 135 P. Rickman Industrial Dr. Suite 100, Canton, GA 30115

SHEET TITLE

SCHEDULE OF SPECIAL INSPECTIONS

Date: 04/20/2026

PROJECT NUMBER 26-149

SHEET NUMBER S5.1

Main SCHEDULE OF SPECIAL INSPECTION SERVICES table with columns for MATERIAL / ACTIVITY, SERVICE, APPLICABLE TO THIS PROJECT (Y/N, EXTENT, AGENT\*, DATE COMPLETED), and detailed inspection tasks.

4/20/2026 11:52:32 AM

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PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**  
 287 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

MECHANICAL LEGEND, ABBREVIATIONS, AND NOTES

M-001

### PIPING SYMBOLS AND ABBREVIATIONS

—HWS—	HOT WATER HEATING SUPPLY
---HWR---	HOT WATER HEATING RETURN
—GHS—	GLYCOL-WATER HEATING SUPPLY
---GHR---	GLYCOL-WATER HEATING RETURN
—RS/RL—	REFRIGERANT SUCTION AND REFRIGERANT LIQUID
—CHS—	CHILLED WATER SUPPLY
---CHR---	CHILLED WATER RETURN
—MW—	MAKE-UP WATER
---D---	DRAIN PIPING
---CD---	CONDENSATE DRAIN
—A—	COMPRESSED AIR
—G—	NATURAL GAS MAIN FUEL
—G(I)—	NATURAL GAS IGNITER FUEL
—FOS—	FUEL OIL SUPPLY
---FOR---	FUEL OIL RETURN
—SW—	SOFTENED WATER
—DCW—	DOMESTIC COLD WATER
—DHW—	DOMESTIC HOT WATER
—(E) 2"—	EXISTING PIPE TAG
—(E) 2"—	PIPE SIZE TAG (DIAMETER)
---	PIPING BEING DEMOLISHED

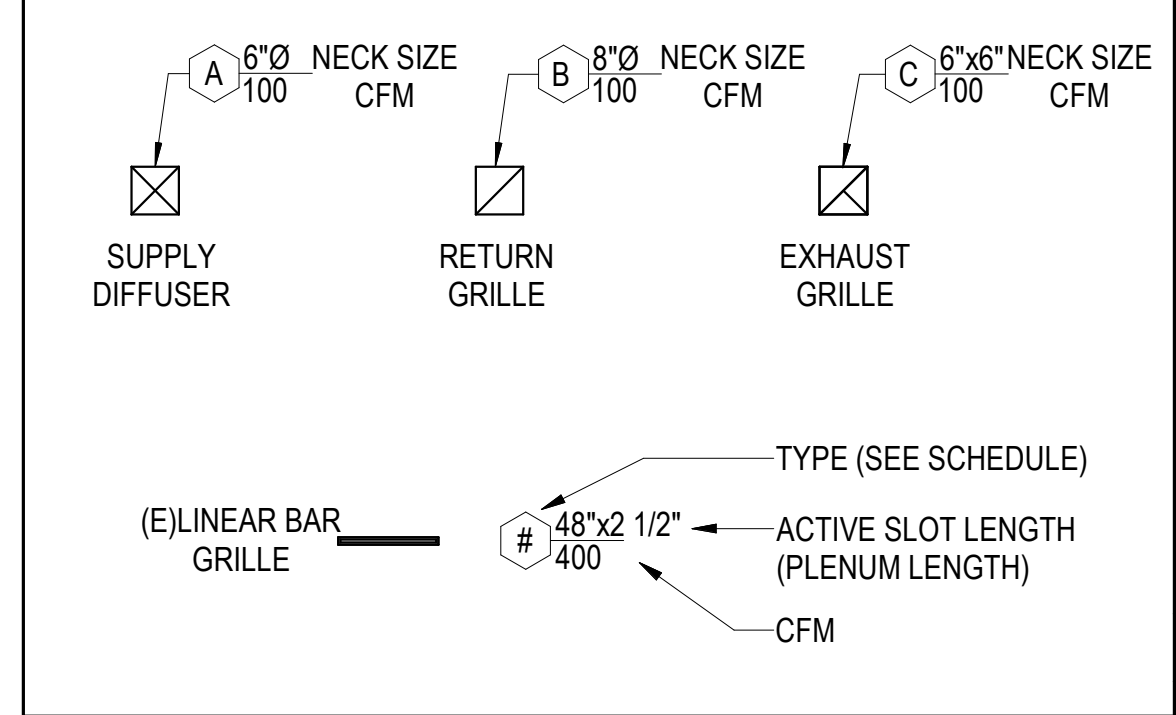
### GENERAL MECHANICAL SYMBOLS

	REVISION NUMBER - SHOWN ON PLANS
	CONNECT NEW TO EXISTING
	LIMIT OF DEMOLITION
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	CONTINUATION SYMBOL
	ROOM NAME AND NUMBER
	AREA NOT IN CONTRACT
	NEW WORK NOTES
	DEMOLISHED WORK NOTES
	ACCESS DOOR ON BOTTOM OF DUCT
	ACCESS DOOR ON TOP OF DUCT
	ACCESS DOOR ON SIDE OF DUCT

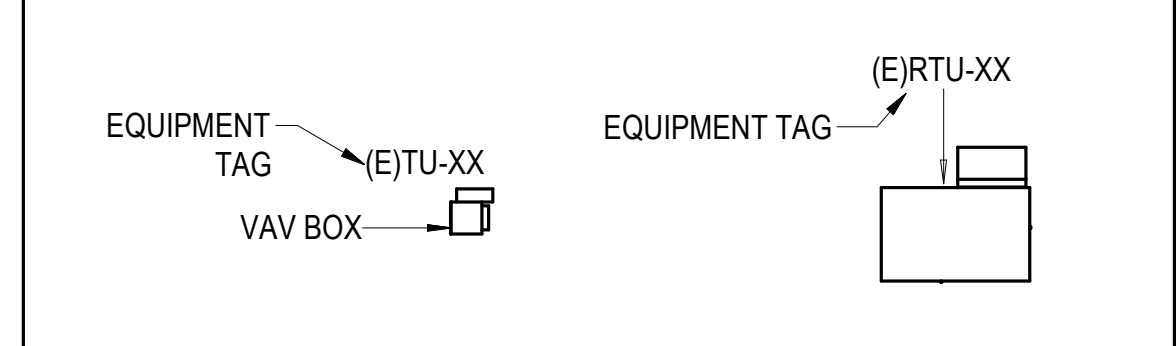
### HVAC SYMBOLS AND ABBREVIATIONS

	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
DROP	RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE
DROP	ROUND SUPPLY/OUTSIDE AIR DUCT RISE
DROP	RECTANGULAR RETURN/TRANSFER AIR DUCT RISE
DROP	ROUND RETURN/TRANSFER AIR DUCT RISE
DROP	RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE
DROP	ROUND EXHAUST/RELIEF AIR DUCT RISE

### GRILLES, REGISTERS & DIFFUSERS TAG



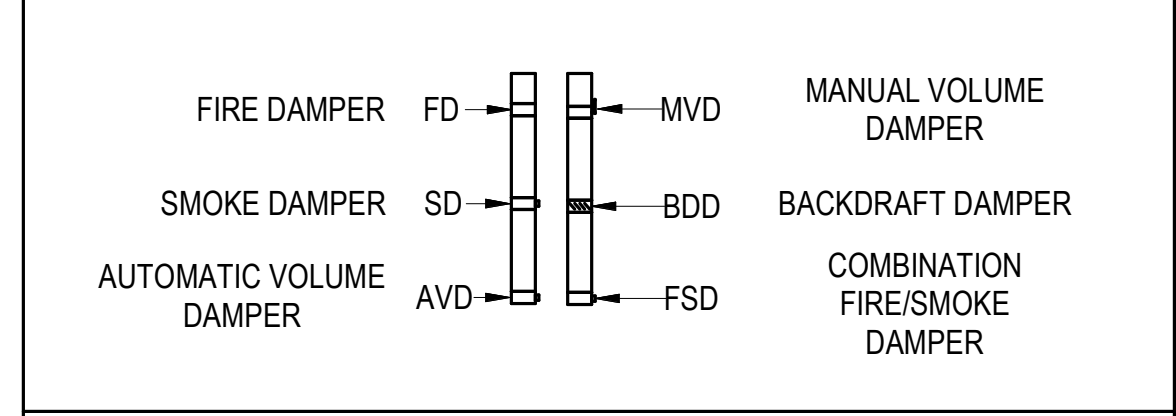
### MECHANICAL EQUIPMENT TAGS



### DATA DEVICE TAGS AND ABBREVIATIONS

DESCRIPTION	SYMBOL	DESCRIPTION
CARBON DIOXIDE SENSOR	CO <sub>2</sub> TH	TEMPERATURE & HUMIDITY SENSOR
CARBON MONOXIDE SENSOR	CO DIS	DISPLAY
NITROGEN DIOXIDE SENSOR	NO <sub>2</sub> T	TU-XX THERMOSTAT
HUMIDITY SENSOR	HS S	SENSOR
HUMIDISTAT	H PS	PRESSURE SENSOR
W	WATTS	
Wb	WET-BULB (TEMPERATURE)	
WFMS	WATER FLOW MEASURING STATION	
WG	WATER GAGE	
WPD	WATER PRESSURE DROP	
YR	YEAR	

### DAMPER TAGS AND ABBREVIATIONS



### SHEET NOMENCLATURE

<b>SERIES</b>	(S) STEAM
0 - SYMBOLS AND NOTES	(H) HVAC
1 - PLAN VIEWS	(P) PIPING
3 - ELEVATIONS AND SECTIONS	(D) DEMO
4 - LARGE SCALE - PLANS AND SECTIONS	
5 - SCHEMATICS AND DETAILS	MECHANICAL — M P ###
6 - SCHEDULES	SERIES
8 - CONTROLS	

**\*NOTE\***  
 ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

### PROJECT ABBREVIATIONS

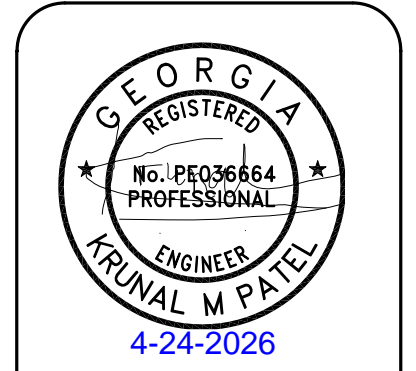
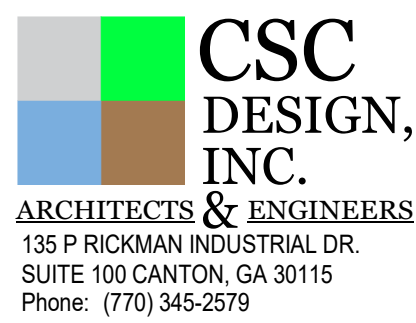
A/E ARCHITECT / ENGINEER	EJ EXPANSION JOINT	IRH INFRARED HEATER	PRV PRESSURE REGULATING VALVE
AAV AUTOMATIC AIR VENT	ENT ENTERING	IU INDUCTION UNIT	PSI POUNDS PER SQUARE INCH
ACD AUTOMATIC CONTROL DAMPER	ERC ELECTRIC REHEAT COIL	JB JUNCTION BOX	PSIA POUNDS PER SQUARE INCH - ABSOLUTE
AD ACCESS DOOR	ERP ELECTRIC RADIANT PANEL	JL JUSTIFIED LEFT	PSIG POUNDS PER SQUARE INCH - GAGE
AF AFTER FILTER	ESP EXTERNAL STATIC PRESSURE	JR JUSTIFIED RIGHT	PTAC PACKAGED TERMINAL AIR CONDITIONER
AFF ABOVE FINISHED FLOOR	ET EXPANSION TANK	KG KILOGRAM	QNTY QUANTITY
AFMS AIR FLOW MEASURING STATION	ETO ETHYLENE OXIDE	KGHR KILOGRAM PER HOUR	RA RETURN AIR
AHU AIR-HANDLING UNIT	EUH ELECTRIC UNIT HEATER	kPa KILOPASCAL	RAF RETURN AIR FAN
AMP AMPERE	EWT ENTERING WATER TEMPERATURE	KW KILOWATT	RAT RETURN AIR TEMPERATURE
APD AIR PRESSURE DROP	EX EXISTING	KWH KILOWATT HOUR	RD REFRIGERANT DISCHARGE
AS AIR SEPARATOR	F FAHRENHEIT	LOOP LOCK ONLY OPEN POSITION	REA RELIEF AIR
B BOILER	F&T FLOAT AND THERMOSTATIC	LVG LEAVING	RF RETURN FAN
BAS BUILDING AUTOMATION SYSTEM	FA FREE AREA	LVR LOUVER	RH RELATIVE HUMIDITY
BBR BASE BOARD RADIATOR	FCU FAN COIL UNIT	LWT LEAVING WATER TEMPERATURE	RHC REHEAT COIL
BE BOTTOM ELEVATION	FD FLOOR DRAIN	M METER, SI UNIT	RLA RUN LOAD AMPERE
BFP BACKFLOW PREVENTER	FF FINAL FILTER	M/S METERS PER SECOND	RO REVERSE OSMOSIS
BHP BRAKE HORSEPOWER	FM FLOW METER	(OR METERS/SECOND)	RP REVOLUTIONS PER MINUTE
BOD BOTTOM OF DUCT	FOP FUEL OIL PUMP	MA MIXED AIR	RS/RL REFRIGERANT SUCTION AND
BOP BOTTOM OF PIPE	FOT FLAT ON TOP	MAT MIXED AIR TEMPERATURE	REFRIGERANT LIQUID
BSC BIOLOGICAL SAFETY CABINETS	FPM FEET PER MINUTE	MAV MAKE-UP AIR UNIT	RTU ROOF TOP UNIT
BT BLOWOFF TANK	FPS FEET PER SECOND	MB MIXING BOX	RV RELIEF VALVE
BTU BRITISH THERMAL UNIT	FPU FAN POWERED TERMINAL UNIT	MBH 1,000 BTUH	SA SUPPLY AIR
BTUH BRITISH THERMAL UNIT PER HOUR	FRP FIBER REINFORCED POLYESTER	MCA MINIMUM BRANCH CIRCUIT AMPACITY	SAT SUPPLY AIR TEMPERATURE
CV CONSTANT AIR VOLUME	FS FLOW SWITCH	MER MECHANICAL EQUIPMENT ROOM	SCFM STANDARD CUBIC FEET PER MINUTE
CC COOLING COIL	FSTAT FREEZESTAT	MERV MINIMUM EFFICIENCY REPORTING VALUE	SCR SILICON CONTROLLED RECTIFIER
CD COOLING COIL CONDENSATE DRAIN	FT FEET	MH MANHOLE	SEA SMOKE EXHAUST AIR
CFH CUBIC FEET PER HOUR	FT WC FEET OF WATER COLUMN	MHP MOTOR HORSEPOWER	SEN SENSIBLE HEAT
CFM CUBIC FEET PER MINUTE	FT-LB FOOT-POUND	MIN MINIMUM	SF SUPPLY FAN
CFT CUBIC FEET	FV FACE VELOCITY	MM MILLIMETER	SHC STEAM HEATING COIL
CH CHILLER	GA GAUGE	MOCV MINIMUM OVERCURRENT PROTECTION	SI SQUARE INCHES
CHP CHILLED WATER PUMP	GAL GALLONS	MOV MOTOR OPERATED VALVE	SP STATIC PRESSURE
CHS/R CHILLER WATER	GH GRAVITY HOOD	MTD MEAN TEMPERATURE DIFFERENCE	SP GR SPECIFIC GRAVITY
CL CENTER LINE	GPD GALLONS PER DAY	NA NOT APPLICABLE	SPS STATIC PRESSURE SENSOR
CM CUBIC METER	GPH GALLONS PER HOUR	NC NOISE CRITERIA	SQ FT SQUARE FOOT (FEET)
CM/S CUBIC METER PER SECOND	GPM GALLONS PER MINUTE	NG NATURAL GAS	SS STAINLESS STEEL
CO CLEAN OUT	GPR GAS PRESSURE REGULATOR	NO NORMALLY OPEN	SSR SOLID SEPARATOR
COMP COMPRESSOR UNIT	GS GALVANIZED STEEL	NOM NOMINAL	ST STEAM TRAP
COP COEFFICIENT OF PERFORMANCE	H HUMIDIFIER	NPLV NON-STANDARD PART LOAD VALUE	TAB TESTING, ADJUSTING, BALANCE
COR CONTRACTING OFFICER	HB HOSE BIBB	NPSH NET POSITIVE SUCTION HEAD	TDH TOTAL DYNAMIC HEAD
CP CONDENSATE PUMP	HC HEATING COIL	NPSHA NET POSITIVE SUCTION HEAD AVAILABLE	TDS TOTAL DISSOLVED SOLIDS
CST CONDENSATE STORAGE TANK	HD HOOD	NPSHR NET POSITIVE SUCTION HEAD REQUIRED	TSP TOTAL STATIC PRESSURE
CSG CLEAN STEAM GENERATOR	HOA HAND/OFF/AUTOMATIC	NTS NOT TO SCALE	TSTAT THERMOSTAT
CT COOLING TOWER	HP HEAT PUMP	OA OUTSIDE AIR	TU TERMINAL UNIT
CU CONDENSING UNIT	HP HORSEPOWER	OAD OUTDOOR AIR DAMPER	UC UNDER CUT
CUH CABINET UNIT HEATER	HRC HEAT RECOVERY COIL	OD OUTSIDE DIAMETER	UH UNIT HEATER
CV CONSTANT VOLUME	HRP HYDRONIC RADIANT (CEILING) PANEL	P PUMP	V VENT
CWP CONDENSER WATER PUMP	HRW HEAT RECOVERY WHEEL	Pa PASCAL	VAV VARIABLE AIR VOLUME
DDC DIRECT DIGITAL CONTROLS	HSTAT HUMIDISTAT	PCF POUNDS PER CUBIC FOOT (FEET)	VFD VARIABLE FREQUENCY DRIVE
DIA DIAMETER	HVU HEATING AND VENTILATING UNIT	PD PRESSURE DROP	VP VACUUM PUMP
DI DEIONIZED WATER	HWC HOT WATER COIL	PF PRE-FILTER	VR VACUUM (STEAM CONDENSATE) RETURN
DP DEW POINT TEMPERATURE	HWP HEATING HOT WATER PUMP	PHC PREHEAT COIL	W WATTS
DPS DIFFERENTIAL PRESSURE SENSOR	HTX HEAT EXCHANGER	PPM PARTS PER MILLION	Wb WET-BULB (TEMPERATURE)
DX DIRECT EXPANSION	HZ HERTZ	PRS PRESSURE REGULATING (VALVE) STATION	WFMS WATER FLOW MEASURING STATION
EA EXHAUST AIR	I/O INPUT/OUTPUT		WG WATER GAGE
EAT ENTERING AIR TEMPERATURE	IAQ INDOOR AIR QUALITY		WPD WATER PRESSURE DROP
EC EVAPORATIVE COOLER	IBT INVERTED BUCKET TRAP		YR YEAR
ECC ENGINEERING CONTROL CENTER	ID INSIDE DIAMETER		
EDH ELECTRIC DUCT HEATER	IFB INTEGRAL FACE AND BYPASS		
EER ENERGY EFFICIENCY RATIO	IN INCHES		
EF EXHAUST FAN	IN HG INCHES OF MERCURY		
ES EMERGENCY GAS SHUTOFF	IN WC INCH WATER COLUMN		
EGT ENTERING GLYCOL TEMPERATURE	IN WG INCH WATER GAUGE		
EH EXHAUST HOOD	IN-LB INCH-POUND		
	IPLV INTEGRATED PART LOAD VALUE		

### MECHANICAL SHEET INDEX

SHEET NUMBER	DRAWING TITLE
M-001	MECHANICAL LEGEND, ABBREVIATIONS, AND NOTES
M-002	MECHANICAL SPECIFICATIONS
M-003	MECHANICAL SCHEDULES
M-004	MECHANICAL DETAILS
M-005	MECHANICAL DETAILS
M-101	OVERALL MECHANICAL PLAN
M-101A	ENLARGED OFFICE MECHANICAL PLAN

MECHANICAL SPECIFICATIONS

Table with 4 columns containing mechanical specifications for heating, ventilation, and air conditioning systems, including ductwork, equipment, and control requirements.



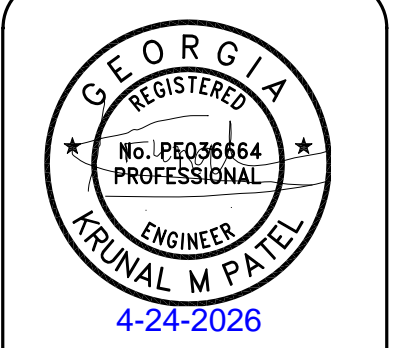
PROJECT NUMBER: 25-040

Table with 2 columns: REVISIONS (NO., DATE) and ISSUE.

DRYWALL WAREHOUSE HWY 81

MECHANICAL SPECIFICATIONS

M-002



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**  
  
 287 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

MECHANICAL SCHEDULES

M-003

LOUVER SCHEDULE												
NOTES:												
1. CONTRACTOR TO INSTALL GRAVITY DAMPER.												
2. LOUVER COLOR BY ARCHITECT.												
3. MANUFACTURER INSTALLED BIRD SCREEN.												
4. COMBINATION LOUVER/DAMPER. ALUMINUM DRAINABLE BLADE LOUVER.												
MARK	MANUFACTURER	MODEL	LOUVER SIZE			AIR FLOW (CFM)	DUIITY TYPE	DAMPER TYPE	PERFORMANCE			NOTES
			WIDTH (IN)	HEIGHT (IN)	DEPTH (IN)				AIR PRESSURE DROP (IN W.G.)	FREE AREA (SF)	FREE AREA VELOCITY (FT/MIN)	
L-1	GREENHECK	ECD-403	60	48	4	5070	INTAKE	GRAVITY	0.041	10.30	492	1:2:3:4

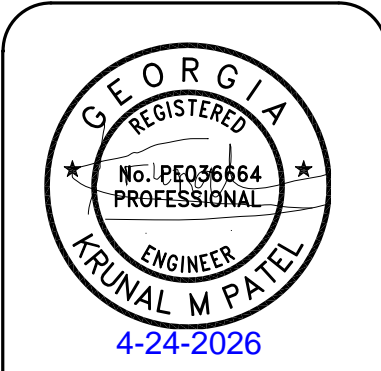
GRILLES, REGISTERS AND DIFFUSERS SCHEDULE										
NOTES:										
1. PROVIDE STANDARD WHITE FINISH.										
2. INSULATE BACK OF DEVICE.										
3. BALANCE AIRFLOW TO QUANTITY SHOWN.										
4. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF GRILLE FOR DUCT CONNECTION.										
MARK	DESCRIPTION	LAYOUT BASIS		MATERIAL	FINISH	FACE SIZE	INSTALLATION		NOTES	
		MANUFACTURER	MODEL				TYPE			
R1	EGGCRATE GRILLE	TITUS	50F	ALUMINUM	WHITE ENAMEL	24x12	LAY-IN INSTALLATION		1:2:4	
R2	EGGCRATE GRILLE	TITUS	50F	ALUMINUM	WHITE ENAMEL	24x24	LAY-IN INSTALLATION		1:2:4	
S1	3-CONE DIFFUSER	TITUS	TMS	STEEL	WHITE ENAMEL	12x12	LAY-IN INSTALLATION		1:2:3	
S2	3-CONE DIFFUSER	TITUS	TMS	STEEL	WHITE ENAMEL	24x24	LAY-IN INSTALLATION		1:2:3	

FAN SCHEDULE												
NOTES:												
1. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.												
2. CENTRIFUGAL CEILING MOUNTED FAN. PROVIDE MANUFACTURER'S GRILLE, ROUND DUCT CONNECTION, SOLID STATE SPEED CONTROL AND MOTOR WITH THERMAL OVERLOAD.												
3. FAN TO BE INTERLOCKED WITH LIGHTS SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON. PROVIDE 15-MINUTE TIME DELAY TO TURN OFF.												
4. SIDEWALL DIRECT DRIVE FAN. PROVIDE WALL SLEEVE AND GRAVITY SHUTTER AND DAMPER AT THE DISCHARGE. PROVIDE SWITCH, NEMA-1, TOGGLE AND MOTOR ACCESS FROM INTERIOR OF BUILDING.												
5. PROVIDE SHORT WALL HOUSING, FLUSH EXTERIOR W/OSHA GUARD, AND GALVANIZED 45 DEG WEATHER HOOD WITH BIRD SCREEN. PROVIDE VARI-GREEN EC MOTOR, MOTOR WITH SHAFT GROUNDING, AND VARI-GREEN DIAL ON EXTERIOR OF FAN HOUSING.												
6. FAN SHALL BE CONTROLLED BY A LINE VOLTAGE THERMOSTAT PROVIDED BY MECHANICAL. ELECTRICAL TO PROVIDE STARTER DISCONNECT TO OVERRIDE THERMOSTAT TO TURN ON FAN.												
MARK	LAYOUT BASIS			FAN PROPERTIES			AIRFLOW PROPERTIES		ELECTRICAL		NOISE CRITERIA (SONES)	NOTES
	MANUFACTURER	MODEL	FAN TYPE	DRIVE TYPE	RPM	AIRFLOW (CFM)	TSP (IN.WG)	VOLTAGE (V)	PHASE	WEIGHT (LBS)		
EF-1	GREENHECK	SP-LP0511	CEILING EXHAUST FAN	DIRECT	773	75	0.280	115	1	8	1.5	1:2:3
EF-2	GREENHECK	SP-LP0511	CEILING EXHAUST FAN	DIRECT	773	75	0.280	115	1	8	1.5	1:2:3
EF-3	GREENHECK	SP-LP0511	CEILING EXHAUST FAN	DIRECT	773	75	0.280	115	1	8	1.5	1:2:3
EF-4	GREENHECK	AER-30-VG	SIDEWALL FAN	DIRECT	945	5070	0.429	208	1	353	17.9	4:5:6

HEAT PUMP AIR HANDLING UNIT SCHEDULE																		
NOTES:																		
1. UNIT AT 208/1Ø AUXILIARY HEATER AT 208/1Ø. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR.																		
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.																		
3. PROVIDE AIR FILTERS, DUCT CONNECTIONS AND VIBRATION ISOLATION. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.																		
4. PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE TO NEAREST HUB DRAIN. COORDINATE WITH PLUMBING.																		
5. HORIZONTAL CONFIGURATION UNIT.																		
6. PROVIDE AUXILIARY DRAIN PAN UNDER THE AIR HANDLERS WITH FLOAT ACTIVATED SWITCH TO SHUT THE UNIT DOWN INCASE OF CONDENSATE OVERFLOW. REFER TO DETAIL PROVIDED.																		
7. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT OF AIR-HANDLING UNIT.																		
8. FLOAT ACTIVATED CONDENSATE SWITCH SHALL BE PROVIDED AND INSTALLED BY HVAC CONTRACTOR. DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY HVAC CONTRACTOR.																		
9. PROVIDE COIL OUTLET SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW. WIRE COIL OUTLET SWITCH IN SERIES WITH AUXILIARY CONDENSATE SWITCH LOCATED IN DRAIN PAN.																		
10. UNIT SHALL HAVE MANUFACTURER'S REFRIGERANT LEAK DETECTION DISSIPATION SYSTEM.																		
11. PROVIDE CARRIER PROGRAMMABLE THERMOSTAT. LOCATE SENSORS AND THERMOSTAT AS PER DRAWINGS.																		
MARK	LAUOUT BASIS			SUPPLY FAN				EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS		SUPPL. HEAT (KW)	UNIT WEIGHT (LBS)	ELECTRICAL		NOTES
	MANUFACTURER	MODEL	TYPE	DESIGN AIRFLOW (CFM)	OUTSIDE AIRFLOW (CFM)	ESP (IN.WG)	HP	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	TOTAL (MBH)	SENSIBLE (MBH)			VOLTAGE (V)	PHASE	
AH-1	CARRIER	FT5ANBC48L00	HORIZONTAL	1400	160	0.50	0.75	78.2	65.3	56.0	54.8	44.84	33.64	11.3	168	208	1	1:2:3:4:5:6:7:8:9:10:11

AIR COOLED HEAT PUMP UNIT SCHEDULE																		
NOTES:																		
1. PROVIDE WITH DEFROST CONTROLS, LOW AMBIENT HEAD PRESSURE CONTROLS, AND ANTI-SHORT CYCLE TIMER. PROVIDE COIL GUARD.																		
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.																		
3. PROVIDE LIQUID LINE SOLENOID, CRANKCASE HEATER, TXV, START CAPACITOR AND RELAY AS RECOMMENDED BY MANUFACTURER FOR LONG LINE APPLICATIONS.																		
4. PROVIDE MOUNTING PAD AS PER DETAIL PROVIDED.																		
5. 2-STAGE COMPRESSOR UNIT.																		
6. PROVIDE LONG LINE ACCESSORIES PER NOTE 3 WHERE REFRIGERANT PIPE LENGTHS EXCEEDS 80-EQUIVLENT FEET.																		
MARK	DESCRIPTION	SERVES	MANUFACTURER	MODEL NO.	HEAT PUMP HEATING CAPACITY (BTU/HR)	REFRIGERANT TYPE	O.A. TEMPERATURE SUMMER (DB) °F	O.A. TEMPERATURE WINTER (DB) °F	NORMAL CAPACITY (TONS)	SEER2	EER2	UNIT DIMENSIONS			OPERATING WEIGHT (lb)	ELECTRICAL		NOTES
												LENGTH	WIDTH	HEIGHT		VOLT (V)	PHASE	
HP-1	CONDENSING UNIT	AH-1	CARRIER	27TPA848A003	48000	R-454B	95.0	47.0 °F	4	17	12.5	2' - 11"	2' - 11"	3' - 9 11/16"	309	208	1	1:2:3:4:5:6

ELECTRIC UNIT HEATER SCHEDULE																
NOTES:																
1. MOUNT UNIT HEATERS AT 10'-0" AFF.																
2. VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.																
3. PROVIDE MOUNTING BRACKETS, FAN DELAY HEATER, AND AUTOMATIC RESET LINEAR THERMAL CUT-OUT.																
4. VERTICAL WALL MOUNTED EXPOSED HEATER.																
5. UNIT SHALL BE CONTROLLED BY MANUFACTURER'S SINGLE STAGE THERMOSTAT.																
6. PROVIDE CLEAR PLASTIC LOCKABLE ROOM THERMOSTAT GUARD.																
MARK	DESCRIPTION	LOCATION		MANUFACTURER	MODEL	INSTALLATION TYPE	AIRFLOW (CFM)	HEATING (kW)	ELECTRICAL			DIMENSIONS			NOTES	
		NAME	NO						FAN MOTOR (HP)	VOLTAGE (V)	PHASE	DEPTH (IN)	WIDTH (IN)	HEIGHT (IN)		
UH-1	UNIT HEATER	HEATED WAREHOUSE	114	QMARK	MUH-15-8	SUSPENDE	910	15.0	0.02	208	1	13	19	22	1:2:3:4:5:6	
UH-2	UNIT HEATER	HEATED WAREHOUSE	114	QMARK	MUH-15-8	SUSPENDE	910	15.0	0.02	208	1	13	19	22	1:2:3:4:5:6	

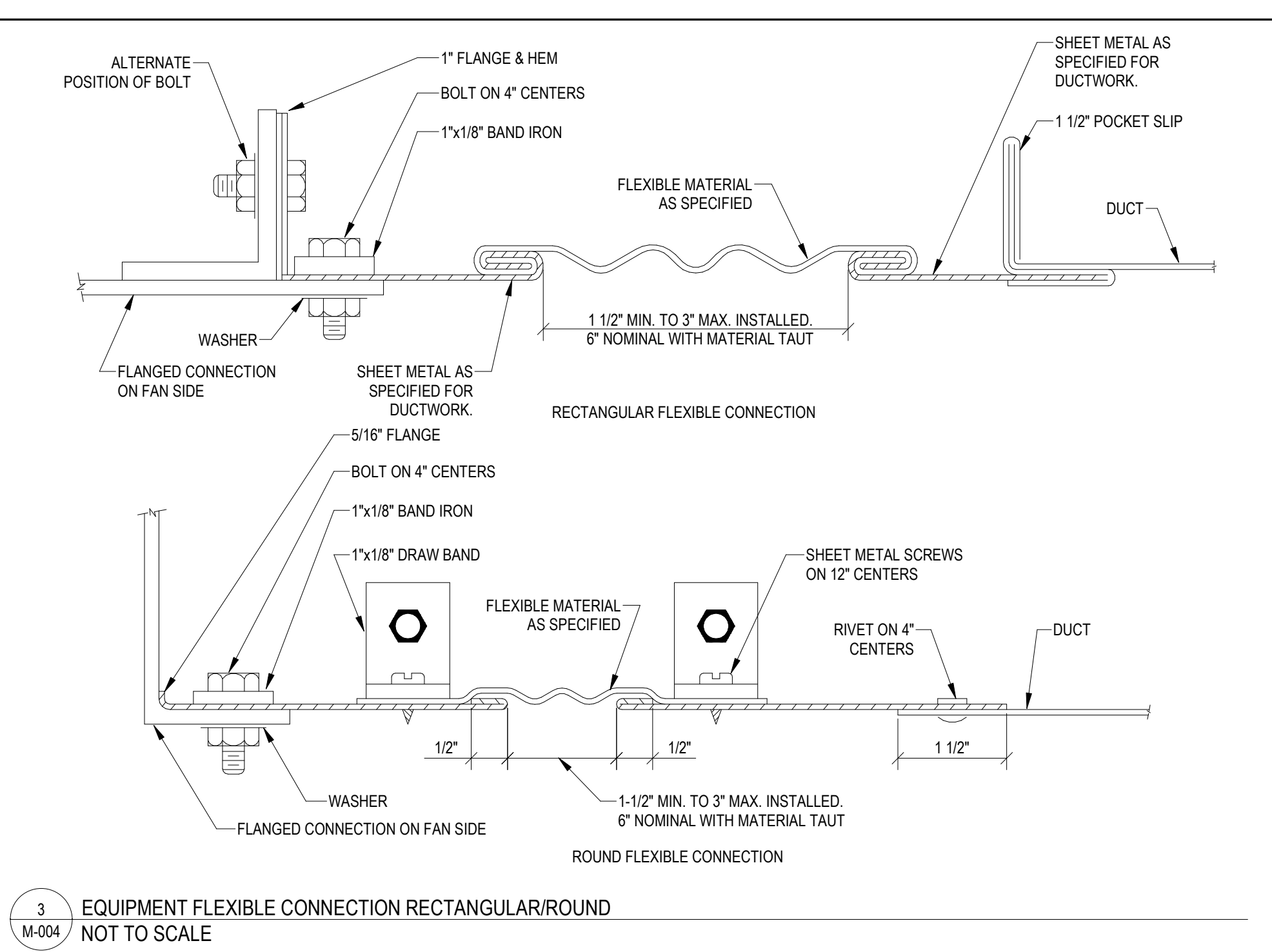


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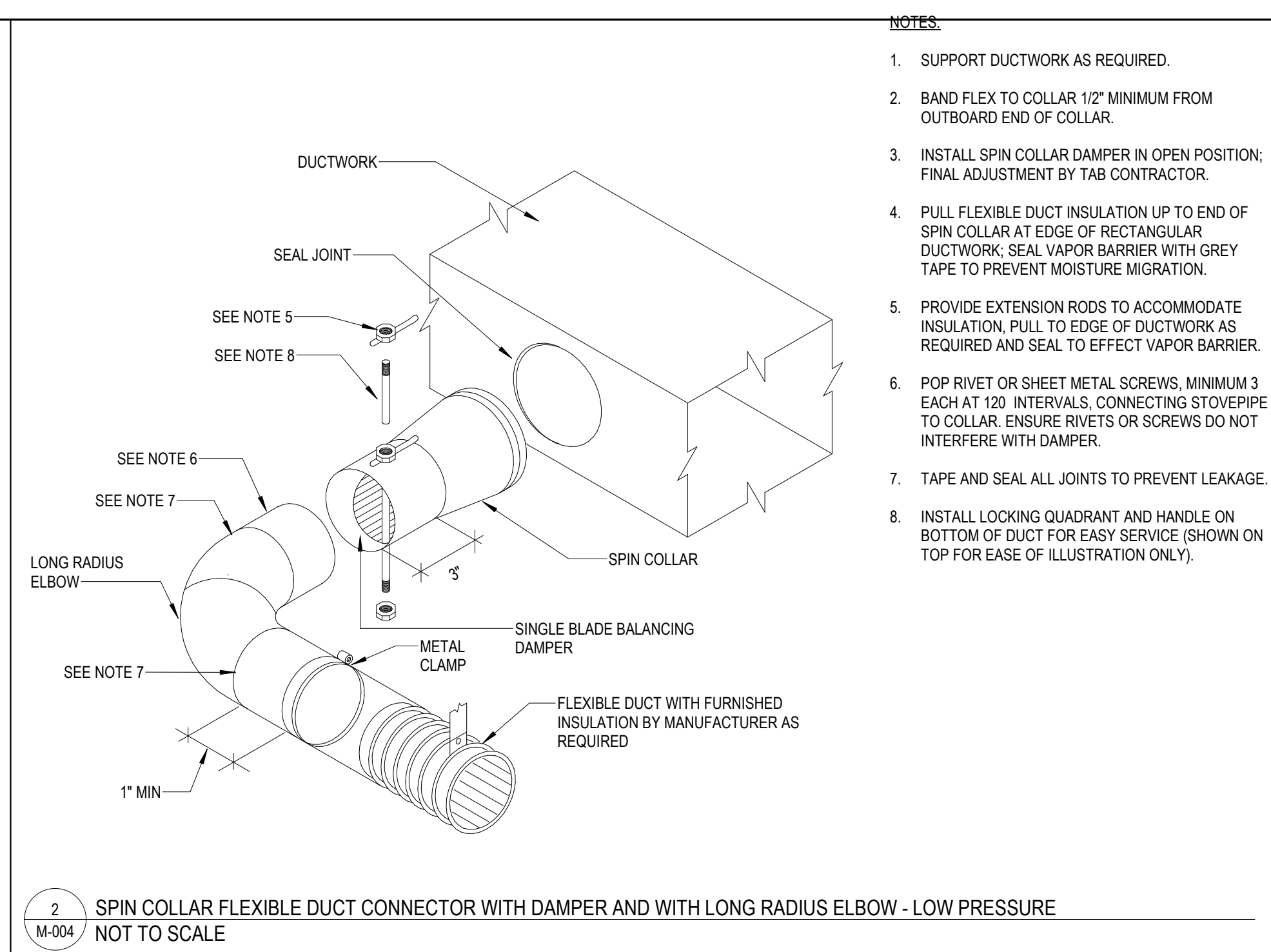
REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**  
 287 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

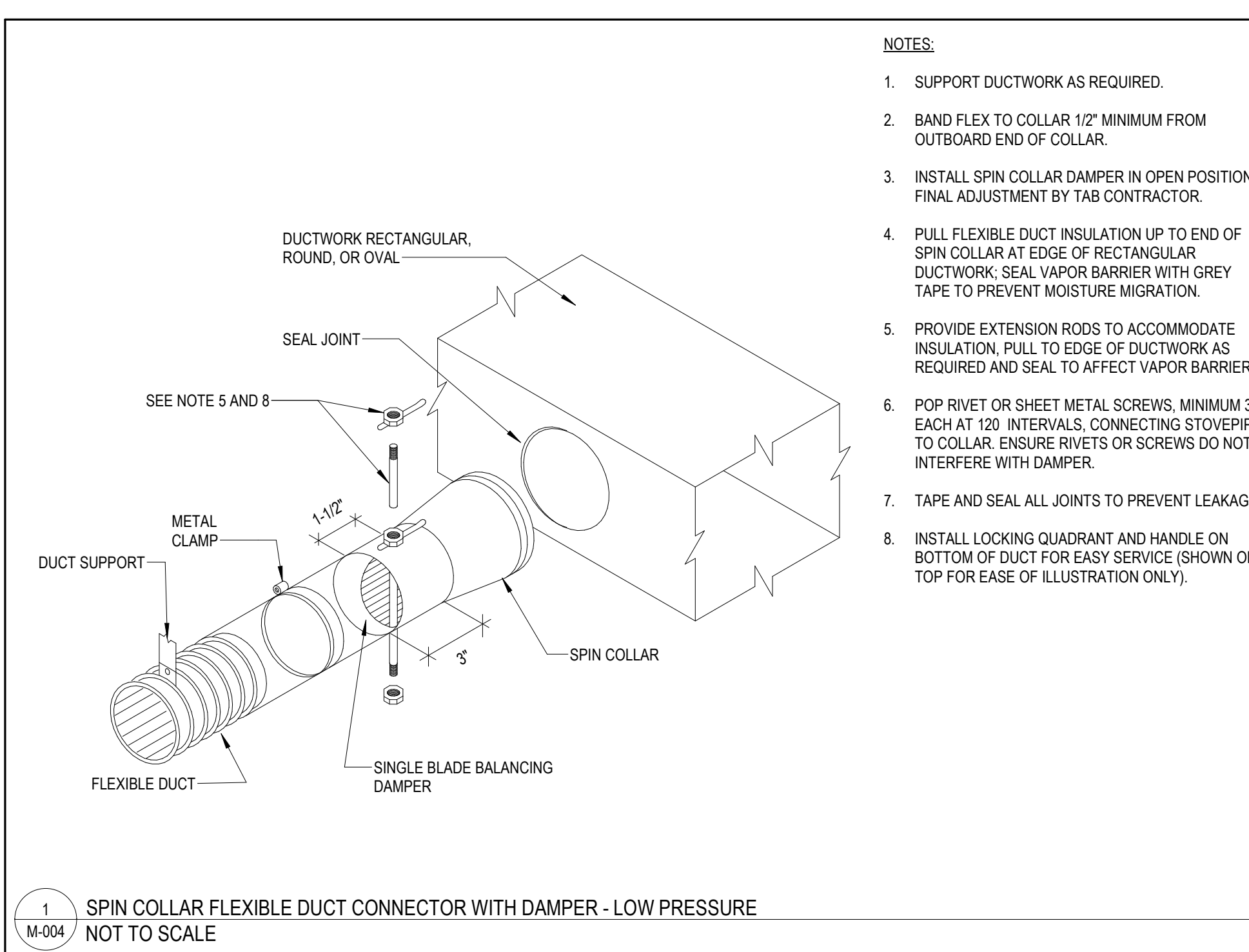
**MECHANICAL DETAILS**  
**M-004**



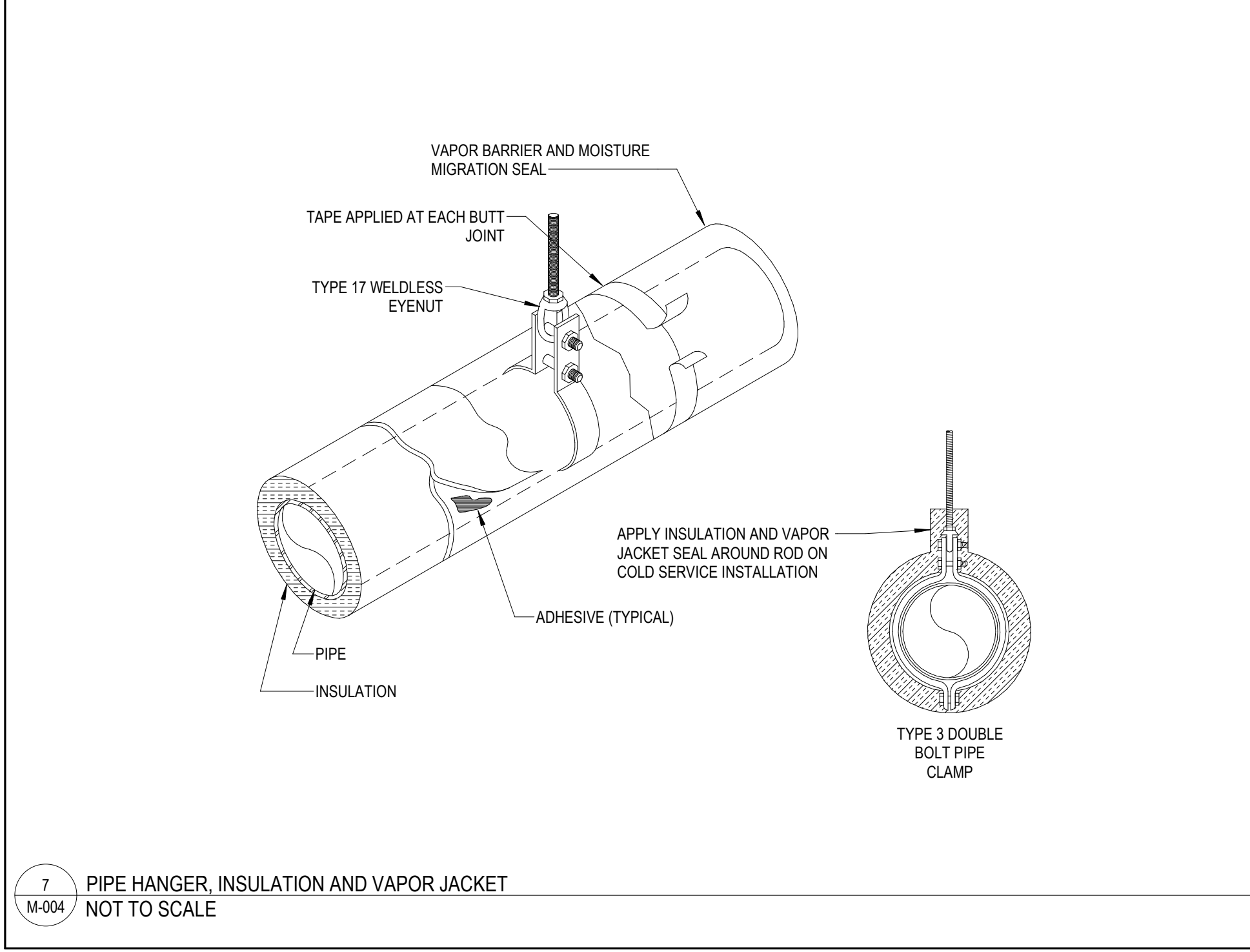
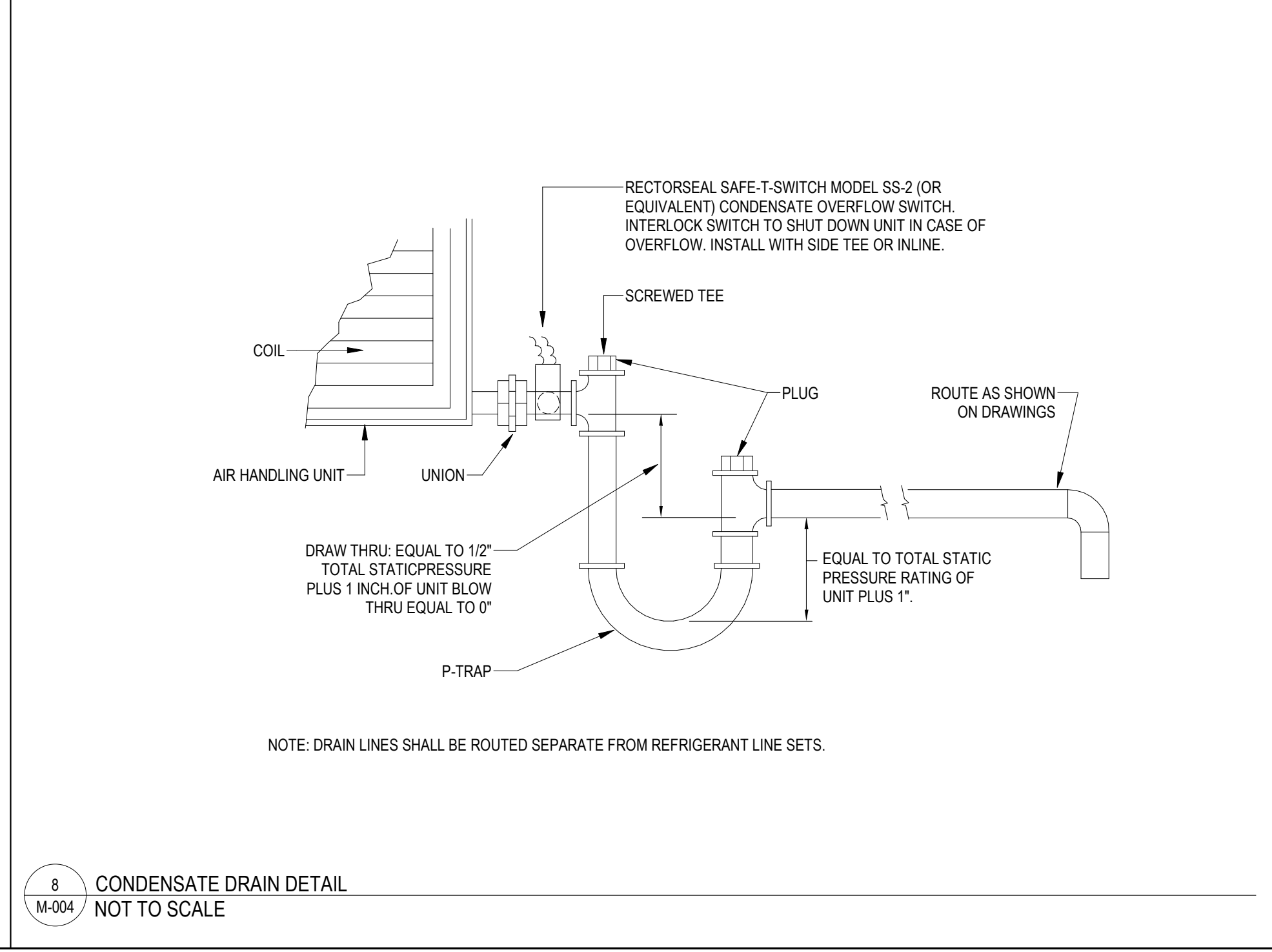
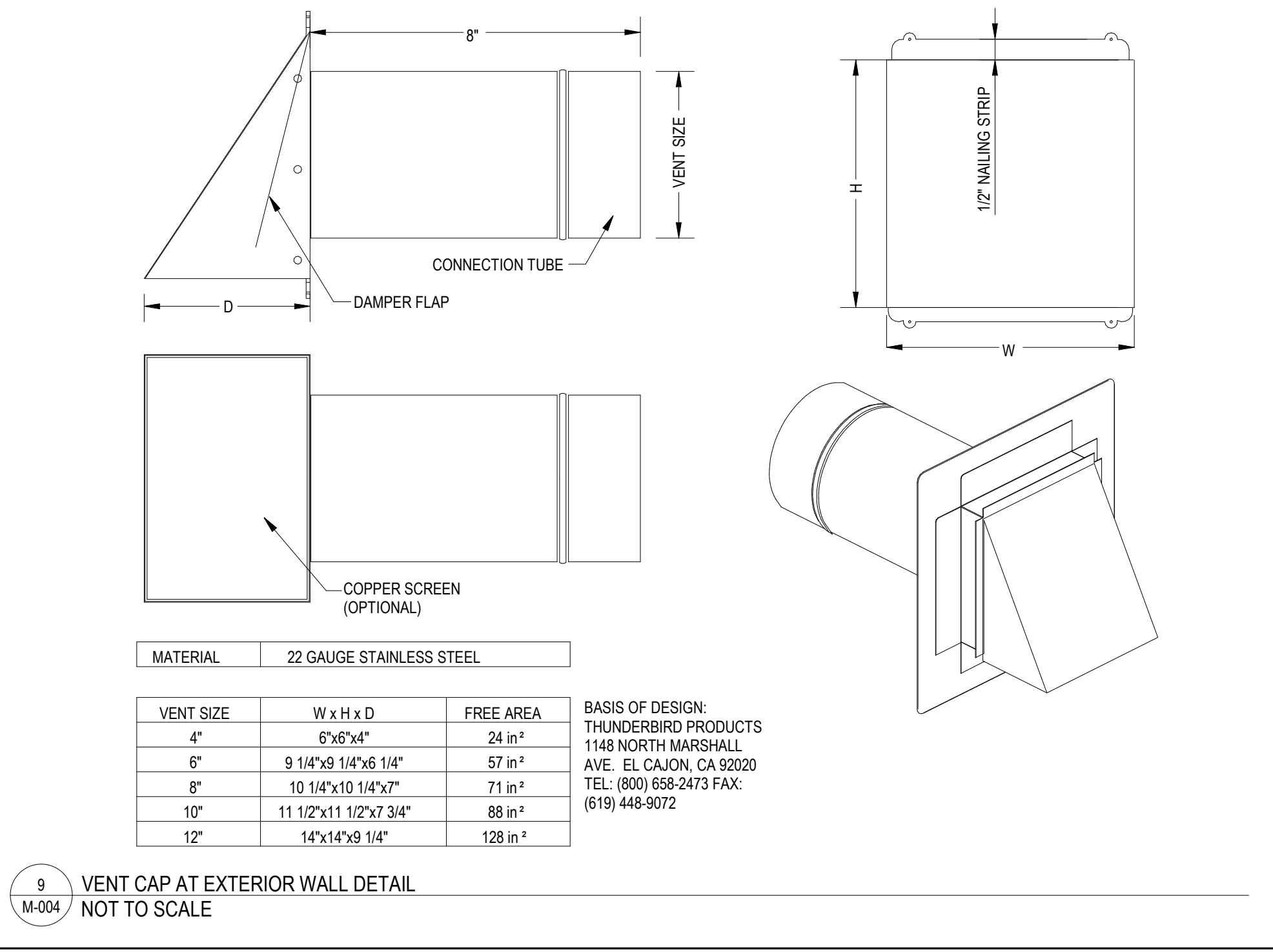
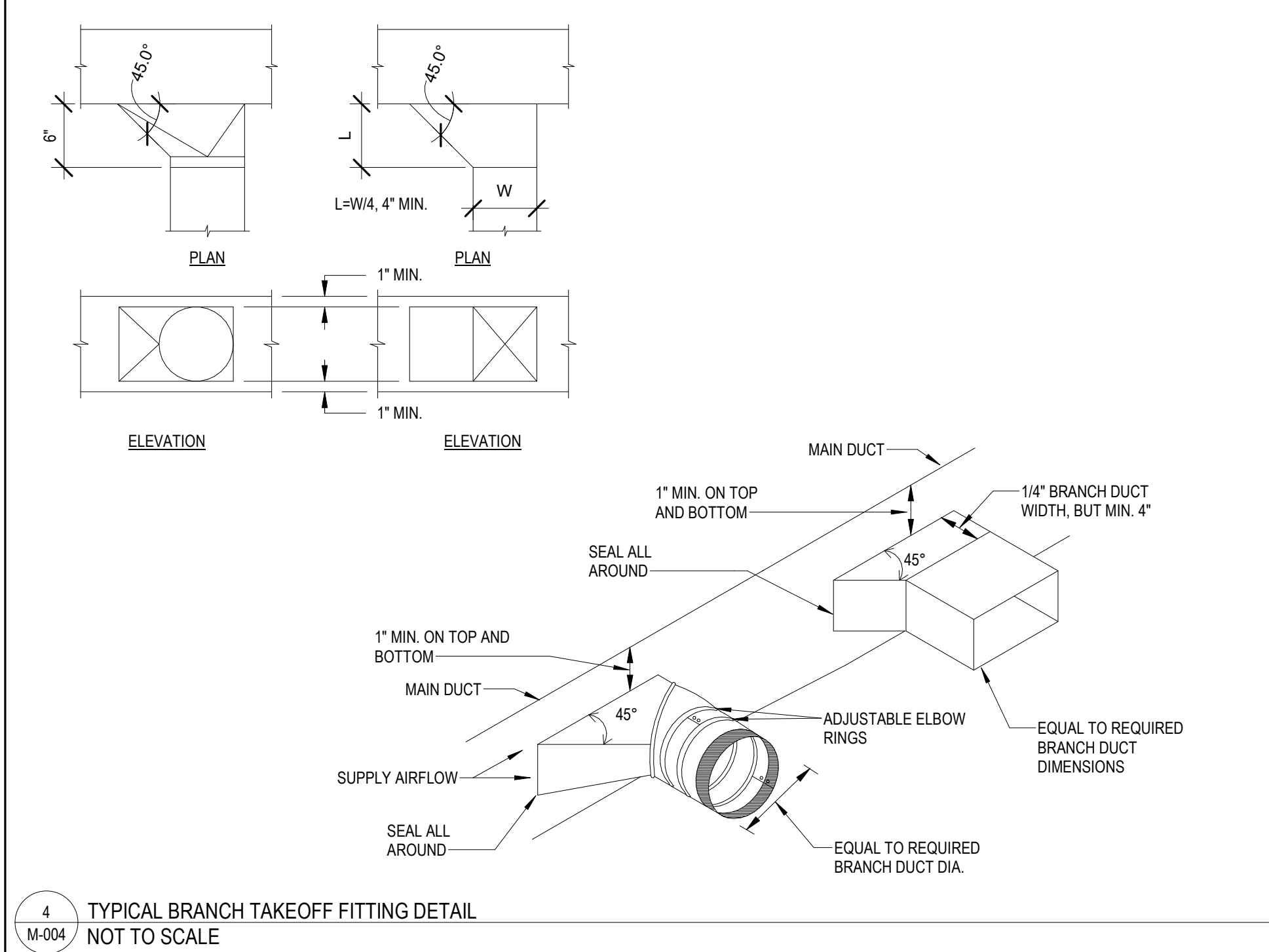
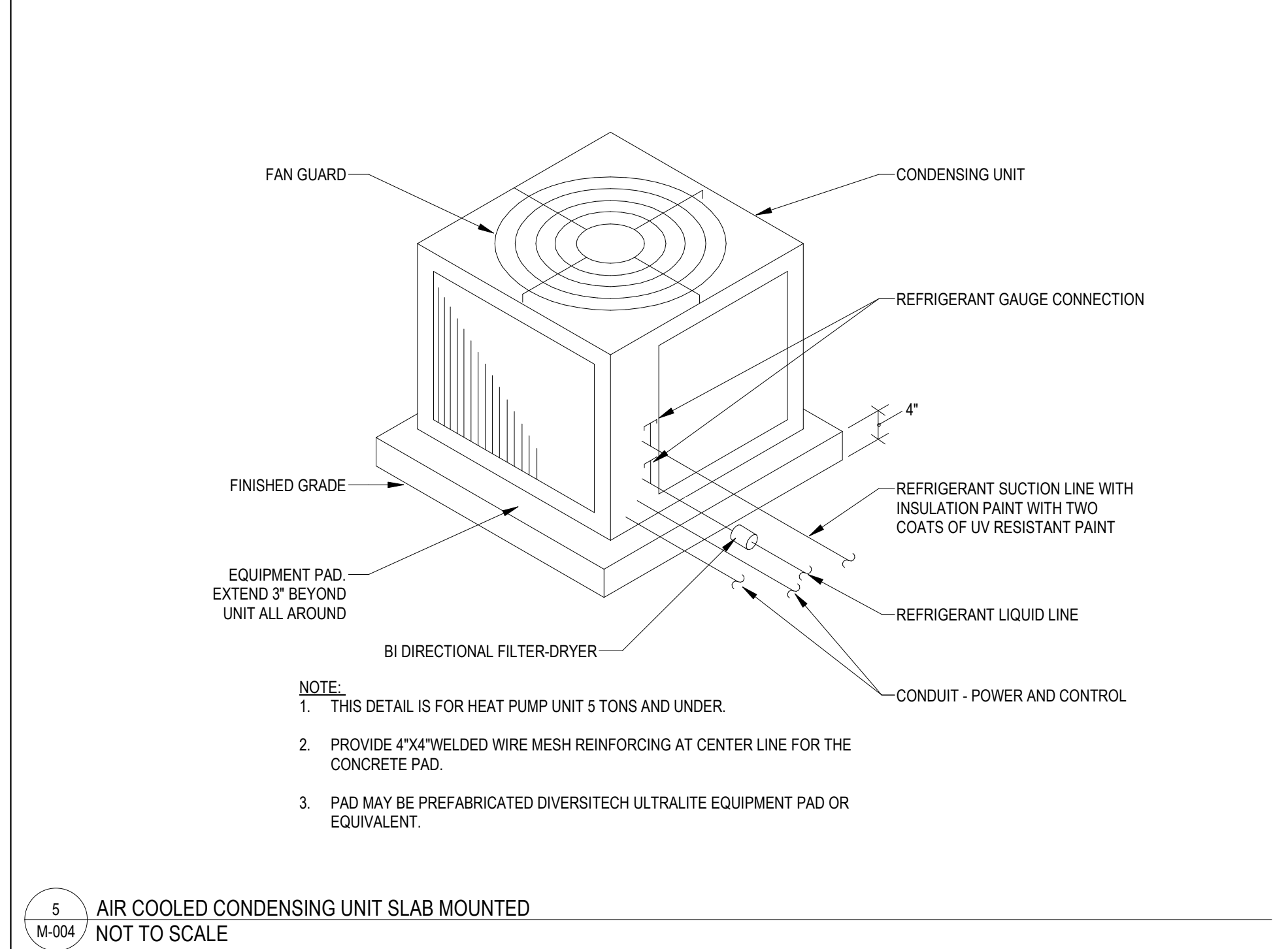
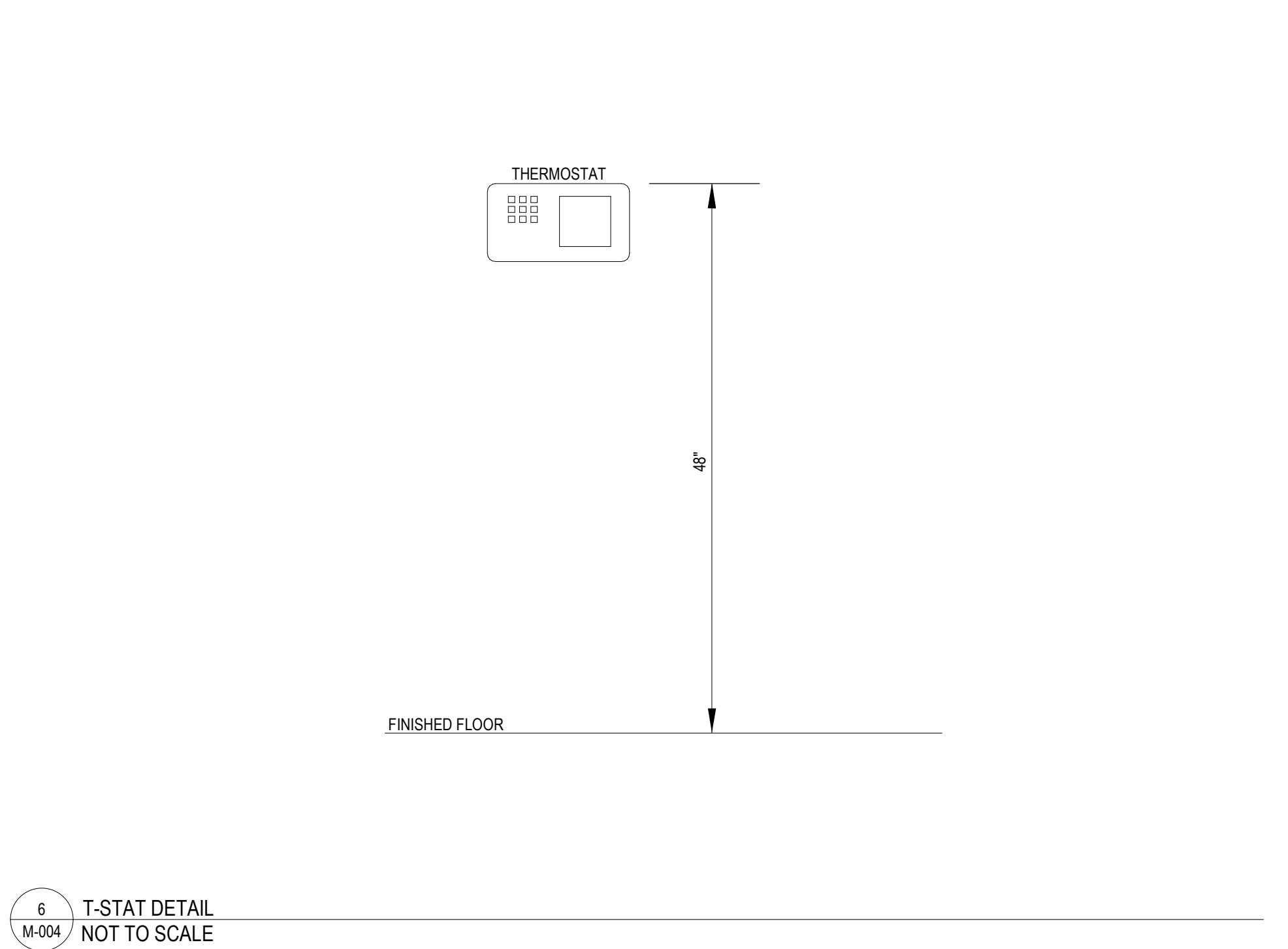
3 EQUIPMENT FLEXIBLE CONNECTION RECTANGULAR/ROUND  
 NOT TO SCALE

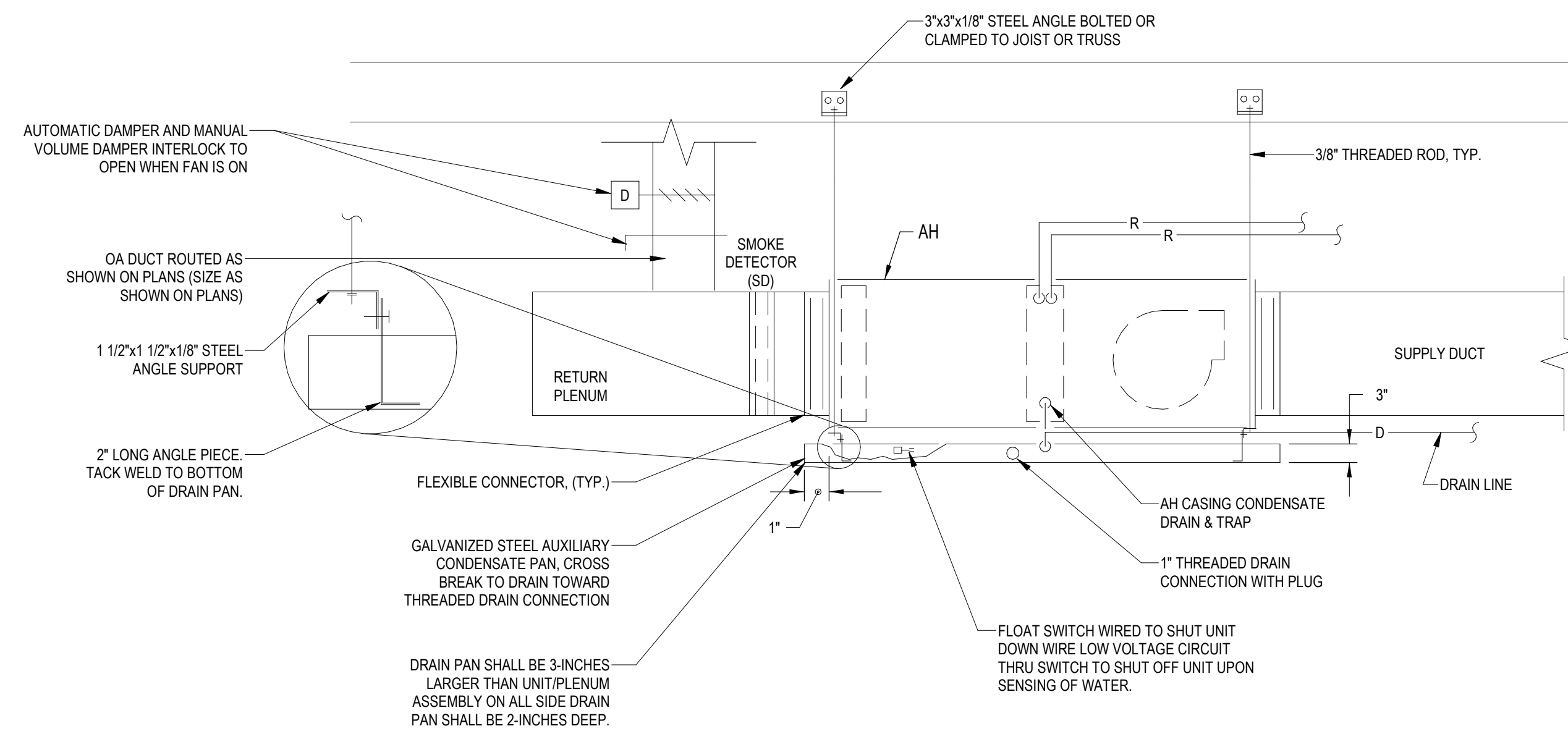


2 SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER AND WITH LONG RADIUS ELBOW - LOW PRESSURE  
 NOT TO SCALE

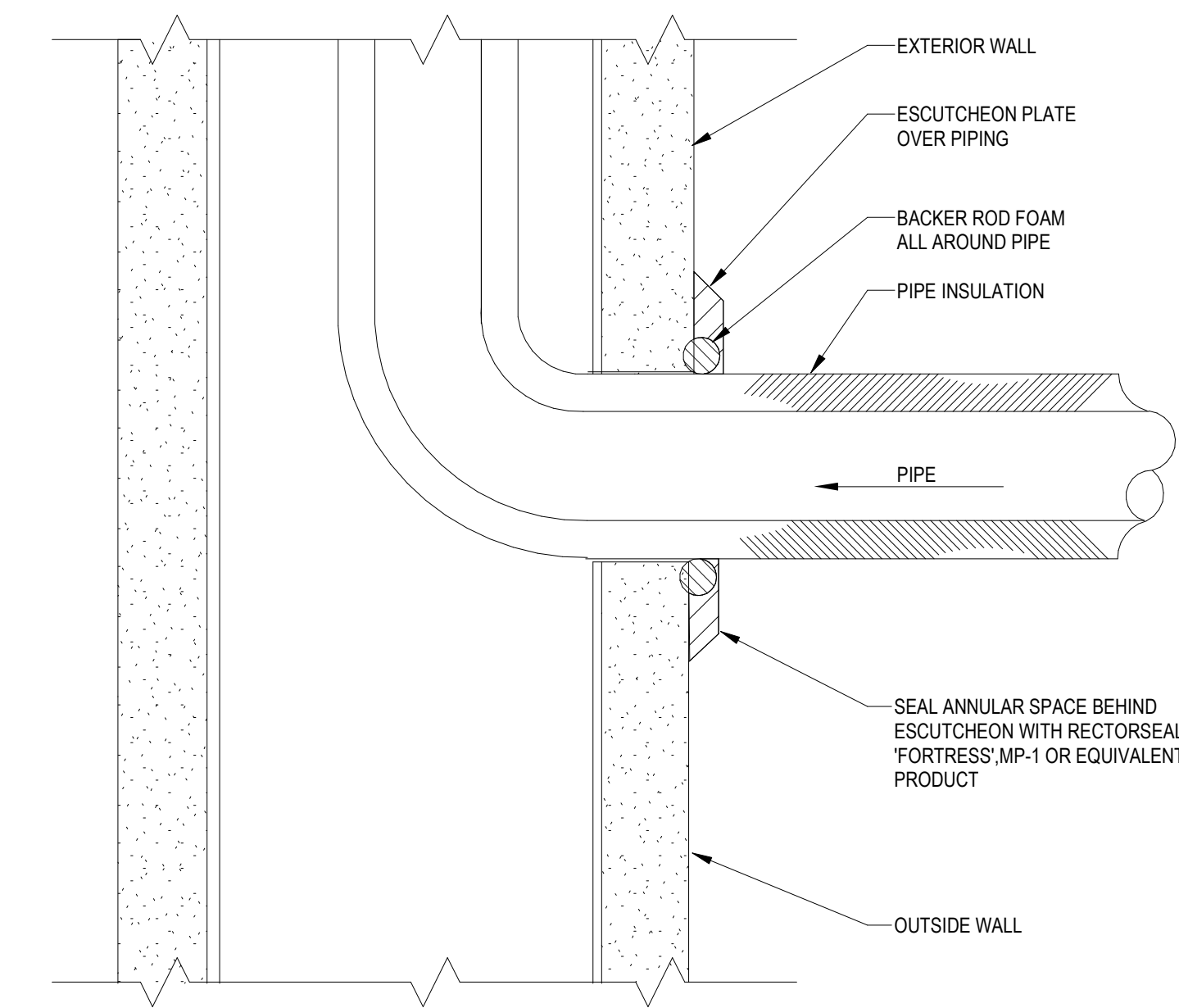


1 SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER - LOW PRESSURE  
 NOT TO SCALE

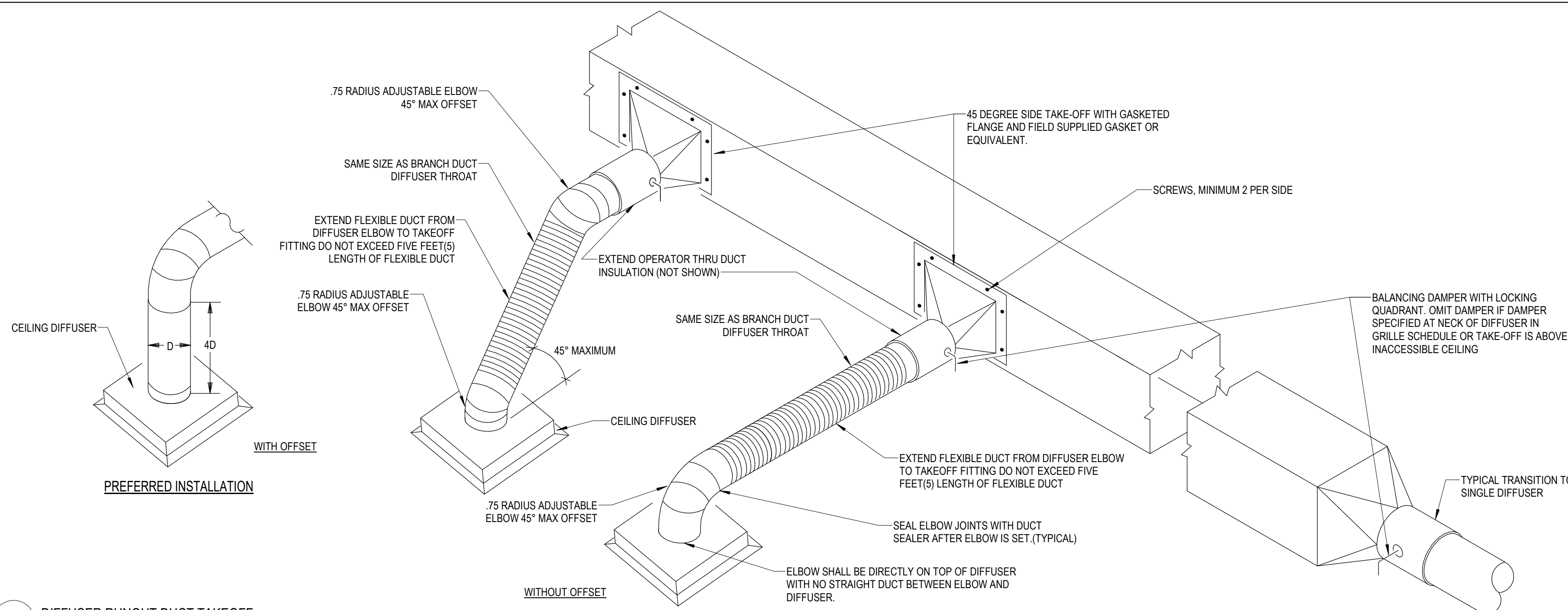




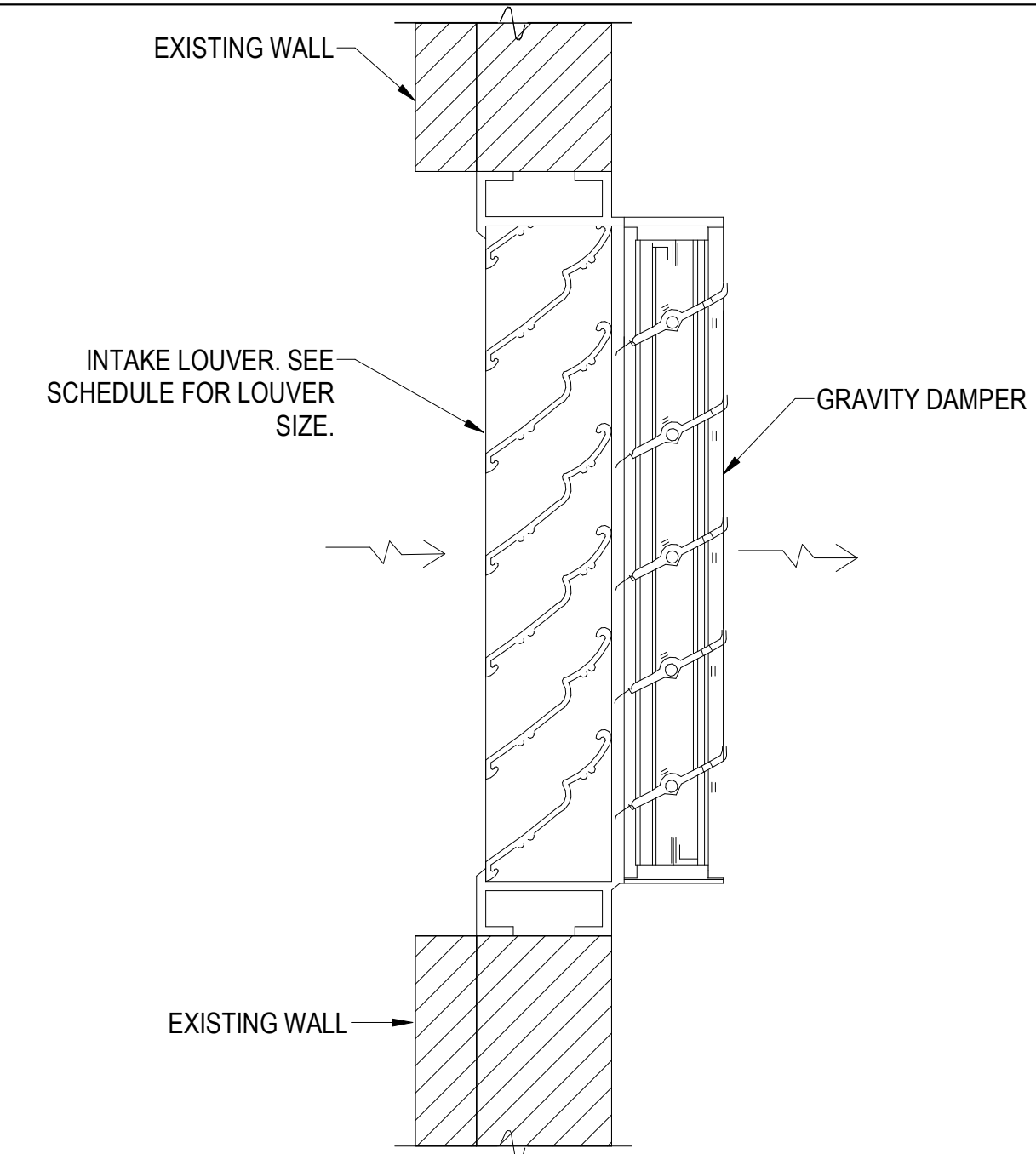
1 AHU WITH AUXILIARY CONDENSATE PAN  
NOT TO SCALE



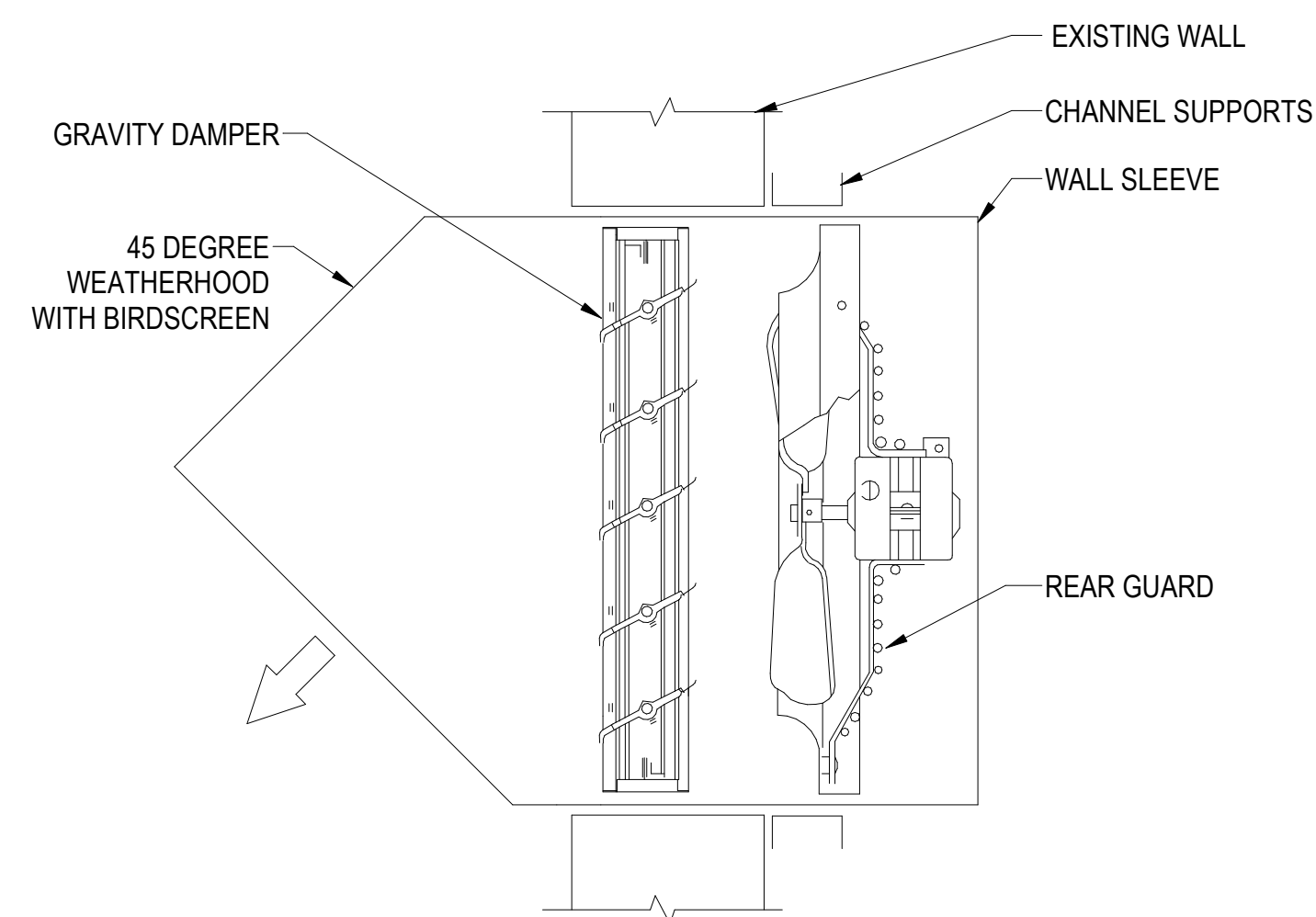
2 REFRIGERANT PIPE SLEEVE THROUGH WALL DETAIL  
NOT TO SCALE



3 DIFFUSER RUNOUT DUCT TAKEOFF  
NOT TO SCALE



4 LOUVER DETAIL  
NOT TO SCALE



5 WALL EXHAUST FAN DETAIL  
NOT TO SCALE



PROJECT NUMBER: 25-040

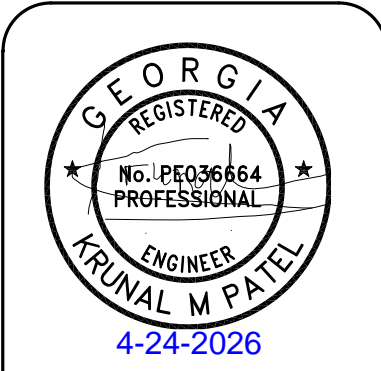
REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**  
287 HIGHWAY 81  
OXFORD, GA 30054  
WALTON COUNTY, GEORGIA

MECHANICAL  
DETAILS

M-005

#	NEW WORK NOTES - M-101
NOTE NUMBER	NOTE TEXT
#	



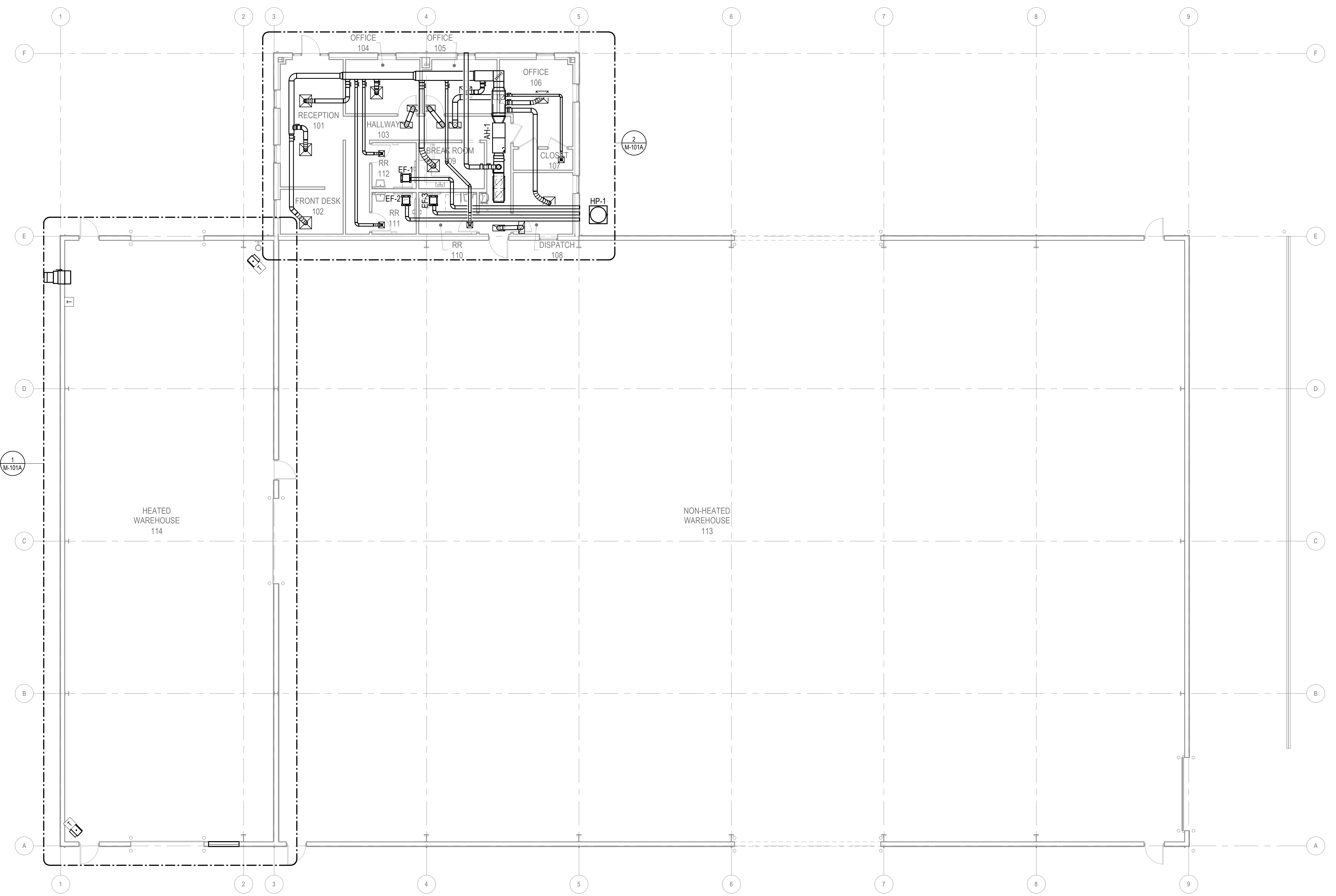
PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

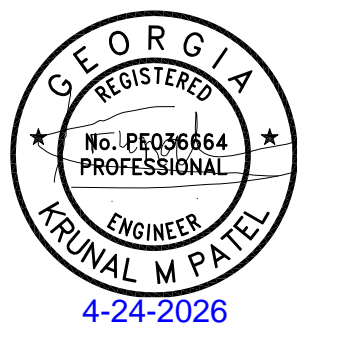
**DRYWALL WAREHOUSE HWY 81**  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

OVERALL MECHANICAL PLAN

M-101



1 OVERALL MECHANICAL PLAN  
 M-101 1/8" = 1'-0"



PROJECT NUMBER: 25-040

REVISIONS  
 NO. DATE ISSUE

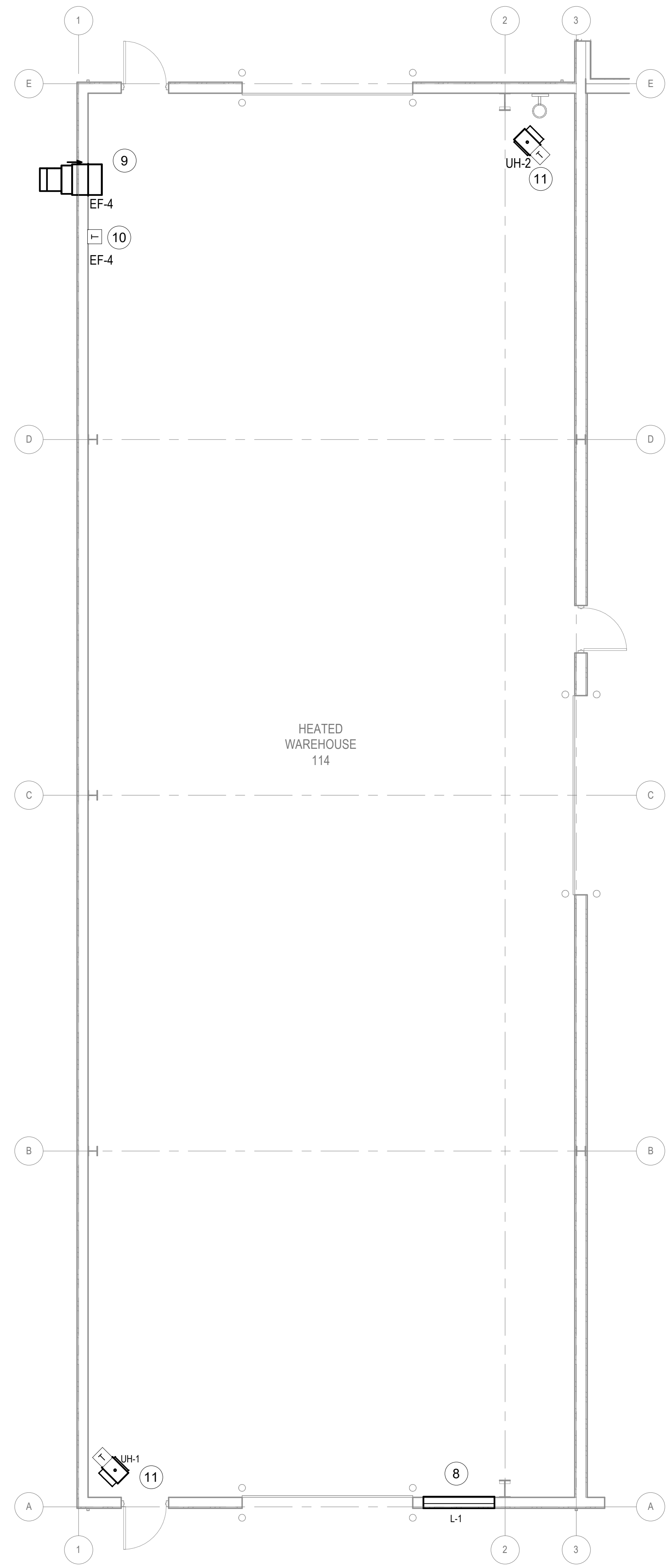
**DRYWALL WAREHOUSE HWY 81**

287 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

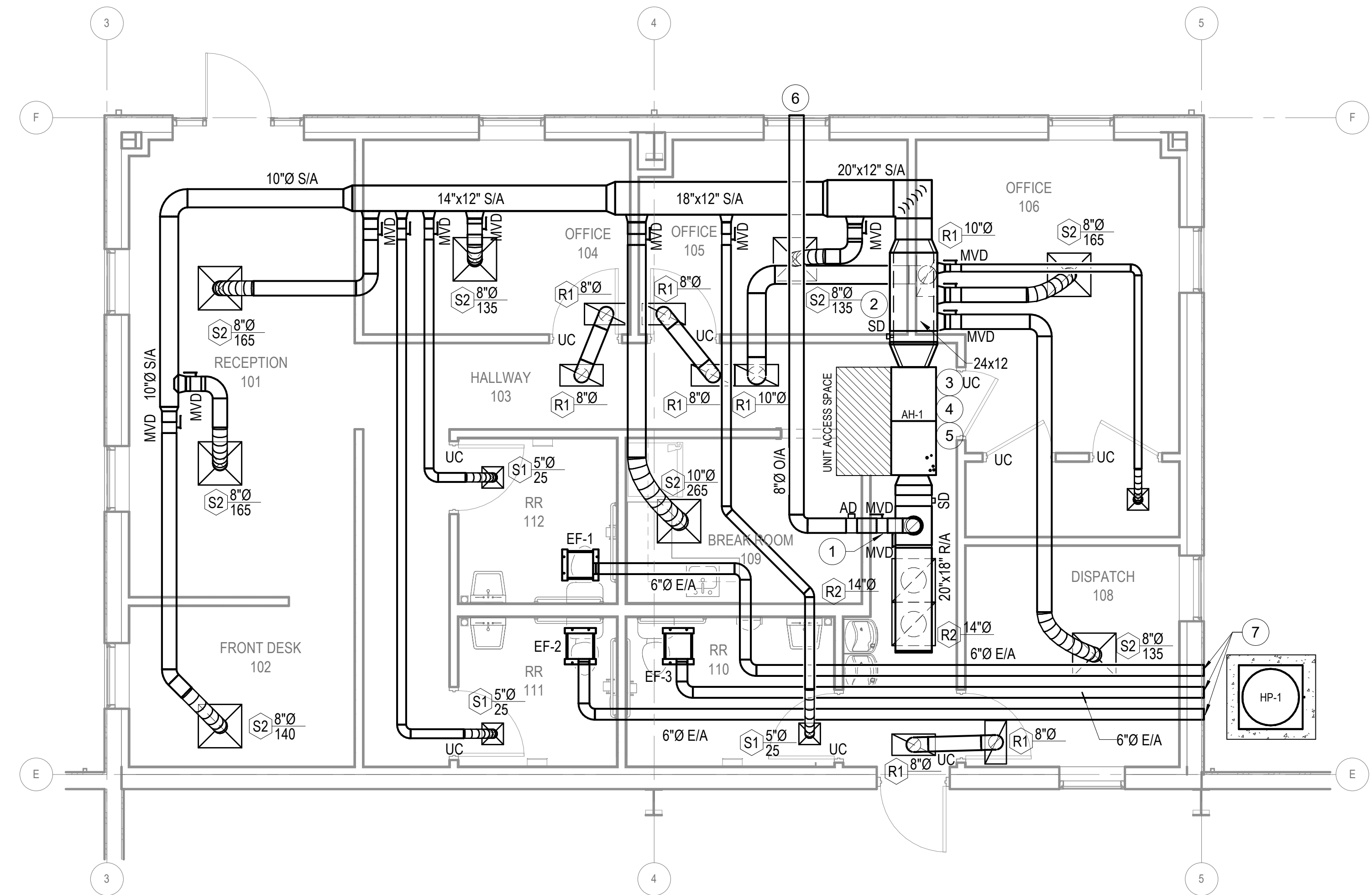
ENLARGED OFFICE MECHANICAL PLAN

M-101A

NEW WORK NOTES - M-101A	
#	NOTE TEXT
1	BALANCE OUTSIDE AIR MVD TO 180 CFM.
2	1" DUCT LINER MINIMUM OF 5'-0" LONG INSIDE OF BUILDING. INCREASE DUCT SIZE TO KEEP INSIDE OF DUCT THE SAME SIZE OF CONNECTED DUCT.
3	INSTALL AUXILIARY PAN WITH WATER-LEVEL MONITORING DEVICE (FLOAT SWITCH) UNDERNEATH THE NEW AH.
4	ROUTE REFRIGERANT PIPES FROM OUTDOOR UNIT TO RESPECTIVE INDOOR UNIT. ROUTE AND SIZE PER MANUFACTURER'S INSTRUCTIONS.
5	ROUTE CONDENSATE PIPE TO OUTSIDE WITH REFRIGERANT PIPE. ROUTE TO 12 INCHES AFF. PROVIDE 90-DEGREE ELBOW AT DISCHARGE TO GUIDE CONDENSATE AWAY FROM EXTERIOR WALL. PROVIDE SPLASHBLOCK AT DISCHARGE.
6	8" OUTSIDE AIR WALL CAP.
7	6" EXHAUST AIR CAP.
8	INSTALL TOP OF LOUVER APPROXIMATELY 11'-0" A.F.F. WITH BIRDCREEN AND BACKDRAFT DAMPER. SEE LOUVER SCHEDULE THIS SHEET.
9	SIDEWALL MOUNTED EXHAUST FANS. INSTALL TOP OF FAN APPROXIMATE 11'-0" A.F.F.. CORRDINATE WITH EXISTING BUILDING STRUCTURE.
10	TOP OF THERMOSTAT SHALL BE AT 48" AFF. PROVIDE BREATHABLE CLEAR PLASTIC, TAMPER PROOF AND LOCKABLE THERMOSTAT COVER.
11	UNIT HEATERS. INSTALL TOP OF FAN APPROXIMATE 10'-0" A.F.F.. CORRDINATE WITH EXISTING BUILDING STRUCTURE.



1 ENLARGED HEATED WAREHOUSE MECHANICAL PLAN  
 M-101A 3/16" = 1'-0"



2 ENLARGED OFFICE MECHANICAL PLAN  
 M-101A 1/4" = 1'-0"

### PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:

- A. Plumbing fixtures, fittings and equipment.
- B. Hot and cold water systems.
- C. Drain waste and vent piping systems.
- D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Gas Code (2018 International Gas Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State Supplements and Amendments), and the DOJ 2010 ADA Standards for Accessible Design with Georgia Amendments of Rule 120-3-20.

The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665.

All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope pipe sizes 6" and under at 1/8 inch per foot continuously toward public sewer. Slope pipe sizes 8" and larger at 1/16 inch per foot continuously toward public sewer. Provide PVC IPEX type 1 expansion joints on alternating floors on horizontal sewer, storm, and vent risers over 30 feet tall.

Insulate aboveground floor drains, traps, and sanitary drain piping within 10 feet of drain receiving condensate and equipment drain water below 60" with 1" thick type I performed glass-fiber pipe insulation, 1-1/2" cellular glass, or 1" flexible elastomeric.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation. All underground domestic water distribution piping 1" and smaller shall be ASTM D 876 & ASTM F 877 PEX with no fittings underground. All underground domestic water distribution piping 1-1/4" and larger shall be ASTM D 1785 schedule 40 PVC with ASTM D 2466 PVC socket fittings.

### DOMESTIC WATER PIPING CLEANING

A. Clean and disinfect potable domestic water piping as follows:

1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
  - a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
  - b. Fill and isolate system according to either of the following:
    - 1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
    - 2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
  - c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
  - d. Repeat procedures if biological examination shows contamination.
  - e. Submit water samples in sterile bottles to authorities having jurisdiction.
3. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
4. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic Cold water piping in unconditioned spaces such as exterior corridors, attic, basements, etc with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic Hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

HW & CW Valves: Use pipe size valves, as shown below:

- A. Ball: Spears CPVC True Union.
- B. Check: Spears CPVC True Union.

Ball-Valve-Type Hose-End Drain Valves shall comply with MSS SP-110 for standard-port, two-piece ball valves. Copper alloy body, 3/4", 400-psi pressure rating, replaceable seats and seals, vinyl-covered steel handle, threaded short nipple outlet with garden-hose thread complying with ASME B1.20.7 and cap with brass chain.

Balancing valves shall conform to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Exception: If the fixture tailpieces and traps are located in cabinets, the tailpiece & trap shall be PVC. Grid drains for public lavatories. Basket strainers for break room sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type. Provide pressure reducing valve where pressure exceeds 79 PSI.

For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers. Water closet carrier shall be ASME A112.6.1M waste-fitting assembly, as required to match drainage piping material and arrangement with faceplates, couplings gaskets, and feet; bolts and hardware matching fixture. Include additional extension coupling, faceplate, and feet for installation in wide pipe space if required.

Thermometers shall comply with standard ASME B40.200.

Lavatory/ Sink supply fittings: NSF Standard: Comply with NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/CSA B125.1. Supply Stops: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weatherproof any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary and storm drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority.

Domestic water piping tests: Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. Leave new, altered, extended, or replaced domestic water piping uncovered and uncondemned until it has been tested and approved. Expose work that was covered or concealed before it was tested. Cap and subject piping to static water pressure of 50 psig (345 kPa) above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow it to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired. Repair leaks and defects with new materials, and retest piping or portion thereof until satisfactory results are obtained.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru wall (SWT) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide Plastic Pipe Markers on all aboveground plumbing piping that Comply with ASME A13.1. Minimum information indicating flow direction arrow and identification of fluid being conveyed. Install labeling on pipe at intervals of not more than 20 feet and at least once in each room.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Provide a backflow preventer at the water riser if backflow preventer is not shown on civil drawings.

Approved manufacturers: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan  
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grohe, Moen, Speakman, Symmons  
Supplies & Traps: Engineered Brass CO., McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn  
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Rheem  
Toilet Seats: Bemis, Centoco, Church Seats, Olsonite, Beneke, Zurn, Mainline  
Stainless Steel Sinks: Dayton, Elkay, Just, Kohler, Moen, Sterling, Franke  
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey  
Fixture Supports: MIFAB, Joy R. Smith, Wade, Watts, Zurn  
Mixing Valves: Armstrong, Leonard, Powers, Symmons, Lawler  
Wall Hydrants/ Hose Bibbs: MIFAB, Joy R. Smith, Wade, Watts, Woodford, Zurn  
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Joy R. Smith, Wade, Watts, Zurn  
Outlet Boxes: Acorn, IPS, Oatey  
CPVC Valves: American, NIBCO, Spears  
Circulation Pumps: Armstrong, Bell & Gossett, Grundfos, TACO  
Water Coolers: Elkay, Oasis, Haws  
Mop Sinks: Stern Williams, Acorn, Fiat  
Wash Fountains: Acorn, Willoughby, Bradley

### FIXTURE AND EQUIPMENT SCHEDULE

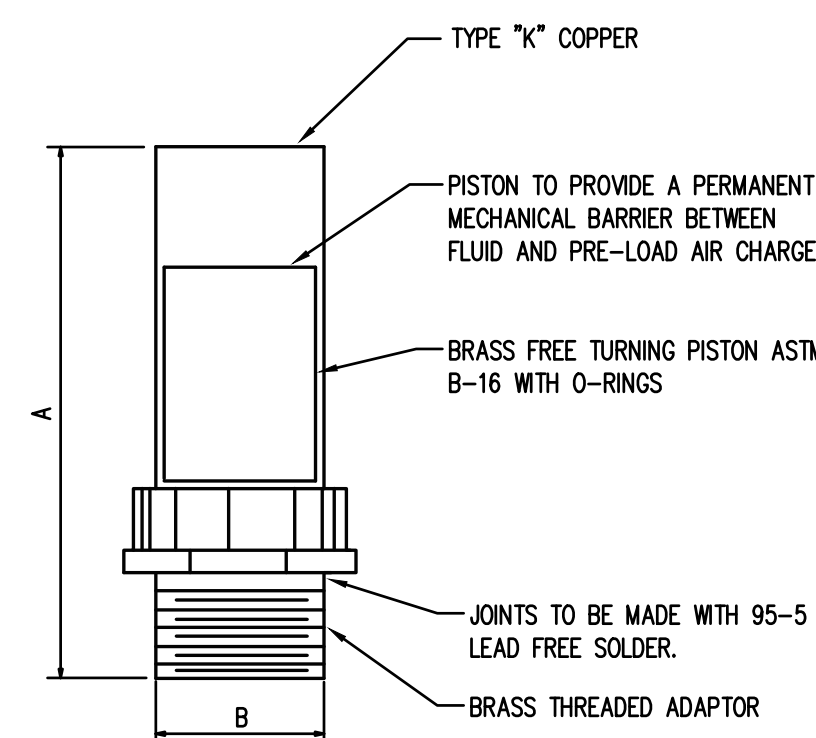
#	FIXTURE TYPE	WASTE		WATER SUPPLY		WATER FIX. CONN.		MODEL NUMBER
		BELOW FLOOR	FIXTURE CONN.	COLD	HOT	COLD	HOT	
WC1	TANK TYPE ADA WATER CLOSET	3"	3"	1/2"	/	1/2"	/	AMERICAN STANDARD 215AA104 WATER CLOSET. CENTOCO 500STSCSS SEAT
WC2	TANK TYPE ADA WATER CLOSET-RIGHT HAND TRIP LEVER	3"	3"	1/2"	/	1/2"	/	AMERICAN STANDARD 215AA105 WATER CLOSET. CENTOCO 500STSCSS SEAT
LAV	ADA WALL-HUNG LAVATORY 0.5 GPM	2"	1-1/4"	1/2"	1/2"	1/2"	1/2"	KOHLER K-2005 LAVATORY. MOEN 8413F05 FAUCET.
UR	ADA URINAL 0.125 GPF	2"	2"	3/4"	/	3/4"	/	KOHLER K-5452-ET URINAL. SLOAN REGAL 186-0125 FLUSH VALVE. SLOAN REGAL 186 ESS-0.125-XL-HW FLUSH VALVE WITH FACTORY TRANSFORMER.
SNK	BREAK ROOM SINK	2"	1-1/2"	1/2"	1/2"	1/2"	1/2"	ELKAY PSR1716 SINK. MOEN 7594 FAUCET.
HB	HOSE BIBB			3/4"	/	3/4"	/	WOODFORD 27.
OB	ICE MAKER BOX WITH WATER HAMMER ARRESTOR			1/2"	/	1/2"	/	WATER TITE AB9701HA.
EP	EQUIPMENT PLATFORM		1"	/	/	/	/	HOLDRITE 50-SWHP-W.
GCO	GRADE CLEANOUT	4"	4"	/	/	/	/	WATTS CO-200-RX-4-60.
FCO	FLOOR CLEANOUT	4"	4"	/	/	/	/	WATTS CO12. PROVIDE CARPET MARKER WHEN INSTALLED UNDER CARPET.
SWT	SIDE WALL VENT TERMINAL	3"	3"	/	/	/	/	WATTS MS-8000.
EWC	ELECTRIC WATER COOLER	2"	1-1/2"	1/2"	/	1/2"	/	ELKAY EZSTLWSLK.
FD	FLOOR DRAIN WITH WATERLESS TRAP PRIMER	2"	2"	/	/	/	/	WATTS FD-190-PR-60 FLOOR DRAIN. RECTORSEAL "SURESEAL PLUS" WATERLESS TRAP PRIMER.

### WATER HEATER & TANK SCHEDULE

MARK	MANUFACTURER	MODEL NUMBER	TYPE	GPH @100° RISE	GALLON	KW	PHASE	VOLTAGE
WH	A.O. SMITH	ENLB-40	RESIDENTIAL LOWBOY ELECTRIC TANK TYPE	21	38	4.5	1	208
EV	WATTS	LFBRVM1	COMBINATION BALL VALVE AND RELIEF VALVE	/	/	/	/	/

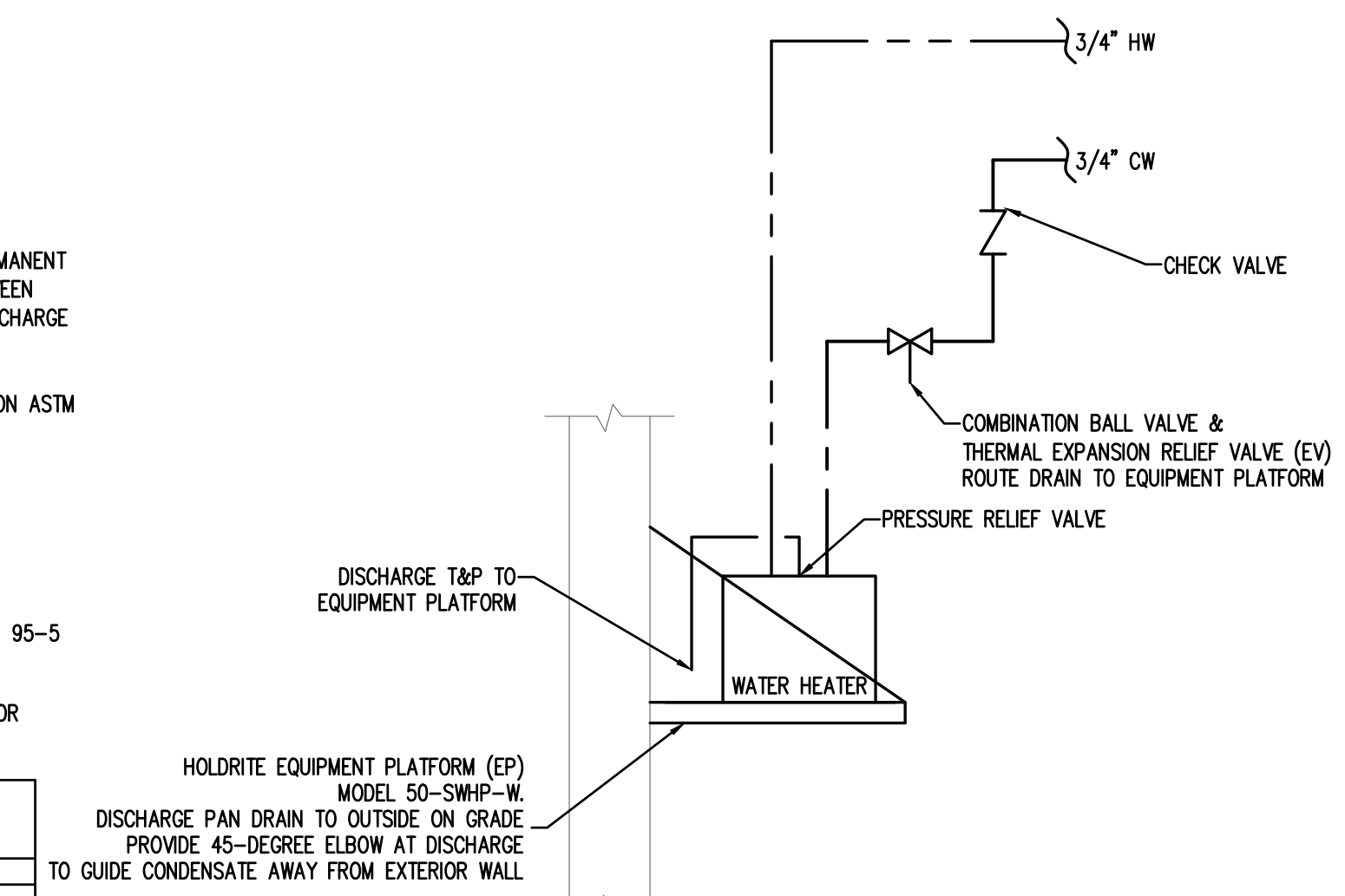
### LEGEND

	SHUTOFF VALVE		COLD WATER	(TYP)	TYPICAL	VTR	VENT THRU ROOF
	CHECK VALVE		HOT WATER	C.T.	COUNTER-TOP	AFF	ABOVE FINISHED FLOOR
	PIPE UP		HOT WATER RETURN	DN	DOWN	CW	COLD WATER
	PIPE DOWN		GAS	CONN.	CONNECTION	HW	HOT WATER
	PDI UNIT WATER HAMMER ARRESTOR		GREASE	NTS	NOT TO SCALE	HW	HOT WATER RETURN
	DWGS.		SEWER VENT	VT	VENT	B.F.F.	BELOW FINISH FLOOR
	COMPRESSED AIR		SEWER	FFE	FINISHED FLOOR ELEVATION	CV	CLOSED VALVE
	PRESSURE REDUCING/REGULATOR VALVE		FIRE SPRINKLER	FLR	FLR		
	DEMOLITION		EXISTING TO REMAIN		CONNECT TO EXISTING		

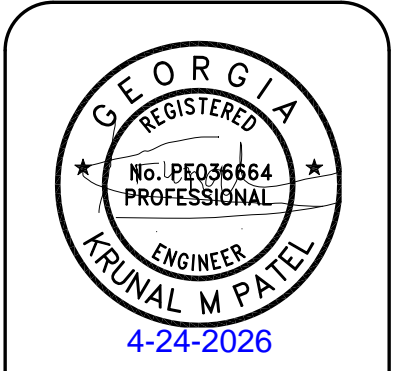


PPP SIZE	P.D.L SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

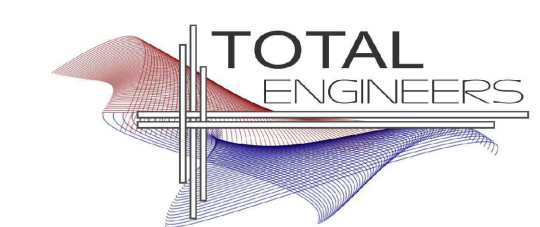
WATER HAMMER ARRESTOR DETAIL  
SCALE: N.T.S.



WATER HEATER (WH) PIPING SCHEMATIC  
SCALE: N.T.S.



1	2	3	4	5	6	7	8	9	10	11	12
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**FIRE PROTECTION BASIC MATERIALS AND METHODS  
(FIRE PROTECTION SECTION 1 OF 2)**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

A. Pipe, fittings, valves, and connections for combination sprinkler and standpipe systems.

**1.2 REFERENCES**

- A. ASME B16.1 – Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250; The American Society of Mechanical Engineers.
- B. ASME B16.3 – Malleable Iron Threaded Fittings; The American Society of Mechanical Engineers.
- C. ASME B16.4 – Gray Iron Threaded Fittings; The American Society of Mechanical Engineers.
- D. ASME B16.5 – Pipe Flanges and Flanged Fittings; The American Society of Mechanical Engineers; (ANSI/ASME B16.5).
- E. ASTM A 47/A 47M – Standard Specification for Ferritic Malleable Iron Castings.
- F. ASTM A 53/A 53M – Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- G. ASTM A 795/A 795M – Standard Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use.
- H. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.
- I. NFPA 24 – Standard for the Installation of Private Fire Service Mains and Their Appurtenances; National Fire Protection Association.
- J. NFPA 72 – National Fire Alarm Code.
- K. NFPA 101 – Code for Safety to Life from Fire in Buildings and Structures.
- L. 2018 International Fire Code (as adopted and amended by the Rules and Regulations of the Safety Fire Commissioner Chapter 120-3-3-04(3))
- M. UL (FPD) – Fire Protection Equipment Directory, Underwriters Laboratories Inc.; current edition.
- N. UL 262 – Gate Valves for Fire-Protection Service; Underwriters Laboratories Inc..
- O. Chapter 120-3-3 of the Rules of the Safety Fire Commissioner.
- P. Georgia State Minimum Standard Building Code (International Building Code 2018 Edition, with Georgia State Amendments). NFPA Code, where more stringent, shall take precedence.

**1.3 SUBMITTALS**

- A. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.
- B. Shop Drawings: Indicate pipe materials used, jointing methods, supports, floor and wall penetration seals. Indicate installation, layout, weights, mounting and support details, and piping connections.
- C. Project As-Built Documents: Record actual locations of components and tag numbering.
- D. Operation and Maintenance Data: Include installation instructions and spare parts lists.

**1.4 QUALITY ASSURANCE**

- A. Fire Protection
  - 1. The Contractor expressly warrants that the company performing the installation of the fire protection systems has demonstrated proficiency in the installation, start-up and adjustment of such systems by the successful performance of work of the nature specified herein on at least 5 commercial or institutional buildings, each containing minimum of 10,000 f2 of protected area or greater.
  - 2. The Contractor further warrants that the aforesaid subcontractor has trained personnel, instruments, tools, and equipment to perform the installation specified.
  - 3. The Contractor also warrants that the aforesaid installer has been in business performing services of the nature specified herein for at least five-years.
  - 4. Provide a certificate of competency as issued by the Georgia State Fire Marshal's Office.
- B. Conform to UL and FM requirements.
- C. Valves: Bear UL and FM label or marking. Provide manufacturer's name and pressure rating marked on valve body.
- D. Products Requiring Electrical Connection: Listed and classified as suitable for the purpose specified and indicated.

**1.5 DELIVERY, STORAGE, AND PROTECTION**

- A. Deliver and store valves in shipping containers, with labeling in place.
- B. Provide temporary protective coating on cast iron and steel valves.
- C. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

**1.6 EXTRA MATERIALS**

A. Provide additional materials as provided in these specifications and by NFPA.

**PART 2 PRODUCTS**

**2.1 GENERAL SYSTEM AND PRODUCT REQUIREMENTS**

- A. Sprinkler Systems: Conform work to NFPA 13.
- B. Standpipe and Hose Systems: Conform to NFPA 14.
- C. Welding Materials and Procedures: Conform to ASME Code.
- D. Building is light hazard, ordinary hazard group, and extra hazard group. Pipe sizes shall be hydraulically calculated based upon flow test to be conducted by contractor.
- E. Provide hydraulic calculations over the most remote 1500 square feet providing density required for hazard as indicated in NFPA 13. Minimum discharge pressure shall be 7.0 PSI. Minimum residual pressure at city water main in the street shall be 20.0 PSI. Provide 10.0 PSI minimum safety margin in hydraulic calculations at design point. Design area reduction per NFPA 13 is not allowed.
- F. Basis of design: Contractor shall perform, or have performed, at the same time, a Fire Flow and Twenty Four Hour Static Test to assure flow equals or exceeds specified basis of design flow rate prior to preparing shop drawings, installing system or performing calculations. Prepare calculations based on confirmed flow data or basis of design flow data, whichever is lowest. Flow test shall be performed in accordance with NFPA 13 and Rules and Regulations of Safety Fire Commissioner, O.C.G.A. Chapter 120-3-3. Modify flow test pressures (static and residual), if pressure recorded in 24 hour test is lower than flow test pressures for one hour duration, to lowest hour test pressure.
- G. No pipe shall be routed above electrical panels and equipment as required by National Electrical Code, on control side or beneath suspended mechanical equipment except where specifically required by Code, in which case, provisions shall be made for service access.
- H. Inspectors test connection(s) shall discharge to the outside of the building in location(s) acceptable to the Architect.
- I. Inside auxiliary drains, if needed, shall discharge in location(s) acceptable to the Architect. Drain and test connection piping, if in finished space, shall be installed concealed.

**2.2 BURIED PIPING**

A. Refer to Civil plans and specifications for piping type.

**2.3 ABOVE GROUND WET SYSTEM PIPING**

- A. Steel Pipe: ASTM A 795 Schedule 10 or ASTM A 53 Schedule 40, black. Piping 2" and smaller shall be threaded. Piping 2 1/2" and larger shall be grooved with rigid couplings.
  - 1. Cast Iron Fittings: ASME B16.1, flanges and flanged fittings and ASME B16.4, threaded fittings.
  - 2. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
  - 3. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.
- B. Malleable Iron Fittings: ASME B16.3, threaded fittings and ASTM A 47/A 47M.
- C. Mechanical Grooved Couplings: Rigid malleable iron housing clamps to engage and lock, "C" shaped elastomeric sealing gasket, steel bolts, nuts, and washers; galvanized for galvanized pipe. Reducing couplings are NOT allowed.

**2.4 PIPE HANGERS AND SUPPORTS**

- A. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron, adjustable swivel, split ring.
- B. Hangers for Pipe Sizes 2-inches and Over: Carbon steel, adjustable, clevis.
- C. Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
- D. Vertical Support: Steel riser clamp.
- E. Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
- F. Provide support for any vertical pipe 36" in length or greater except armovers. Provide supports 12"-0" O.C. maximum at floor levels.
- G. Threaded rods shall NOT be bent. Bending is permitted only in unthreaded sections of hanger rods. Bending shall occur as close to the hanger as possible. Provide a swivel assembly if required.

**2.5 GATE VALVES**

- A. Up to and including 2 inches:
  - 1. Manufacturers:
    - a. Nibco Scott; Product T-104-0
    - b. Jenkins; Product 275U
    - c. Hammond; Product 18681
    - d. Stockham; Product B-133
    - e. Kennedy; Product Fig. 66
  - 2. Bronze body, bronze trim, rising stem, handwheel, solid wedge or disc, threaded ends.
- B. Over 2 inches:
  - 1. Manufacturers:
    - a. Nibco Scott; Product F-607-0T5
    - b. Crane; Product 467
    - c. Jenkins; Product 825-A
    - d. Hammond; Product 1R1154
    - e. Stockham; Product G-634
    - f. Kennedy; Product Fig. 68
  - 2. Iron body, bronze trim, rising stem pre-grooved for mounting tamper switch, handwheel, OS&Y, solid rubber covered bronze or cast iron wedge, flanged ends.

**2.6 GLOBE VALVES**

- A. Bronze body, rubber disc, union bonnet, 174 W.W.P., threaded ends.
- B. Up to and including 2 inches:
  - 1. Manufacturers:
    - a. Nibco-Scott; Product KT-65.
    - b. Kennedy; Product 975D.
    - c. United; Product 125S.
    - d. Fairbanks; Product 4691-3.
- C. Re-install electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.
- D. Paint all exposed pipes, unless otherwise indicated.
- E. All ferrous fasteners and hanger supports not having a corrosion resistant plated finish shall be painted to prevent rust.
- F. Paint all equipment, including that which is factory-finished, exposed to weather or to view on the roof and outdoors.
- G. Paint all exposed un-insulated ferrous materials.

**2.7 ANGLE VALVES**

- A. Bronze body, rubber disc, union bonnet, 174 non-shock cold water, threaded ends.
- B. Up to and including 2 inches:
  - 1. Manufacturers:
    - a. Nibco-Scott; Product T-301-W.
    - b. Kennedy; Product 985D.
    - c. United; Product 126S.
    - d. Fairbanks; Product 4691-3.
- C. System design, installation, and certification.
- D. Fire department connections.

**2.8 BUTTERFLY VALVES: Not allowed.**

**2.9 CHECK VALVES**

- A. Iron body, U.L. Listed- FM. Approved, swing type, bronze trimmed, bronze seat and disc, flanged ends.
- B. Manufacturers:
  - 1. Jenkins; Product 629
  - 2. Crane; Product 375
  - 3. Stockham; Product G-939
  - 4. Mueller; Product A-2120-6
  - 5. Kennedy; Product #126
- C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.
- D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.
- E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

**2.10 INDICATOR POSTS**

- A. Cast iron base, top section, & cap; malleable iron wrench and locking device; steel stem; cast iron coupling; bronze target holder with aluminum "shut" and "open" targets; Underwriters Laboratories listed, and Factory Mutual approved; available for varying trench depth; and with adjustable depth features.
- B. Manufacturers:
  - 1. Kennedy Fig. Series 741.
  - 2. Nibco NIP-1.
  - 3. Stockham G-951.
  - 4. Mueller A-20804.

**2.11 UNDERGROUND GATE VALVES**

- A. 2 1/2-inch and larger, iron body, non-rising stem, bronze stem, iron mounted disc with bronze rings, cast iron 2-inch square operating nut, flange, ends, AWWA spec. C-500.
- B. Manufacturers:
  - 1. Kennedy Fig. 701X.
  - 2. Nibco F-609.
  - 3. Stockham G-635.
  - 4. Mueller A-2075-20.
  - 5. M & H Fig. 3067.

**PART 3 EXECUTION**

**3.1 PREPARATION**

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and foreign material, from inside and outside, before assembly.
- C. Prepare piping connections to equipment with flanges or unions.
- D. Storage: All piping shall be stored above ground and protected to prevent dirt and debris from entering pipe.

**3.2 INSTALLATION**

- A. Install sprinkler system and service main piping, hangers, and supports in accordance with NFPA 13 and these specifications.
- B. Install standpipe piping, hangers, and supports in accordance with NFPA 14.
- C. Install post indicator valve (PIV) upstream of backflow device.
- D. Route piping in orderly manner, plumb and parallel to building structure. Maintain gradient.
- E. Install piping to conserve building space, to not interfere with use of space and other work.
- F. Group piping whenever practical at common elevations.
- G. All piping shall be installed above ceilings in a concealed manner except where no ceilings are present.
- H. Sleeve pipes passing through partitions, walls, and floors.
- I. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
- J. Reducing Tees: Weld-on threaded outlet tees and Couplet-300 by Bonney Forge Division of Energy Products Group, Central Sprink 701, "TEE-LET" 300 by Merit Manufacturing Corp., NAF300 by North Alabama Pipe Corp., F400 by Grinnell Corp. may be used for side outlet reducing tees more than two pipe sizes smaller than main. Discs shall be retrieved and connected to pipe at point of cutting. Cutting shall comply with NFPA 13, Chapter 6.5.2.9.
- K. Couplings may be used on gridded systems at only one end of each gridded branch line or on 2 1/2" or larger riser nipple to 2" or smaller branch line to facilitate connection provided that the coupling is connected to piping by a cut groove. Rolled grooves are not acceptable.

**3.3 CLEANING AND PROTECTION**

- A. All materials, equipment and mechanical rooms shall be cleaned prior to the Final Inspection.
- B. Wash down and scrub clean all mechanical room floors, walls, equipment bases and equipment.
- C. Paint equipment where finish has been damaged requiring retouching of finish to match factory finish.
- D. Chipped or scraped paint shall be retouched to match original finish.
- E. All dents and sags in equipment casing shall be straightened.
- F. All equipment, pipe, pipe fittings and appurtenances shall be free of rust and stains prior to substantial completion.
- G. Die cut threaded joints with full cut standard taper pipe threads with red lead and linseed oil or other non-toxic joint compound applied to male threads only.
- H. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.
- I. Provide gate valves for shut-off or isolating service. No valve shall be installed with the centerline, if horizontal, or wheel, if vertical, more than 9'-0" AFF.
- J. Provide drain valves at main shut-off valves, low points of piping and apparatus.

**3.4 FINISHING EQUIPMENT AND MATERIAL**

- A. Use paint systems specified in Division 9 for the substrates to be finished.
- B. Paint shop-primed equipment.
- C. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.
- D. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.
- E. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.
- F. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.
- G. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.
- H. Fire Department Connections: Elkhart, Cramer Standard, Potter Roemer.
  - 1. Type: Free standing type with ductile iron pedestal chrome plated finish.
  - 2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
  - 3. Drain: 3/4 inch automatic drip, outside.
  - 4. Label: "Sprinkler – Fire Department Connection".

**END OF SECTION**

**FIRE SUPPRESSION SPRINKLERS  
(FIRE PROTECTION SECTION 2 OF 2)**

**PART 1 GENERAL**

**1.1 SECTION INCLUDES**

- A. Wet Type Sprinkler System
- B. Dry-pipe sprinkler system.
- C. System design, installation, and certification.
- D. Fire department connections.

**1.2 REFERENCES**

- A. NFPA 13 – Standard for the Installation of Sprinkler Systems; National Fire Protection Association.
- B. NFPA 14 – Standard for the Installation of Standpipe and Hose Systems; National Fire Protection Association.

**1.3 SUBMITTALS**

- A. Product Data: Provide data on sprinklers, valves, and specialties, including manufacturers catalog information. Submit performance ratings, rough-in details, weights, support requirements, and piping connections.
- B. Shop Drawings:
  - 1. Indicate hydraulic calculations, detailed pipe layout, hangers and supports, sprinklers, components and accessories. Indicate system controls.
  - 2. Submit shop drawings, product data, and hydraulic calculations to Fire Marshall for approval and to Architect for review. Submit to Architect prior to submitting to Fire Marshal. Submit proof of approval to the Architect.
- C. Project As-Built Documents: Record actual locations of sprinklers and deviations of piping from drawings. Indicate drain and test locations. Provide two (2) CD and three (3) paper copies of as-built drawings.
- D. Manufacturer's Certificate: Certify that system has been tested and meets or exceeds specified requirements and code requirements. All certificates shall be signed by certificate holder.
- E. Operation and Maintenance Data: Include components of system, servicing requirements, record drawings, inspection data, replacement part numbers and availability, and location and numbers of service depot.

**1.4 QUALITY ASSURANCE**

- A. Maintain one copy of referenced design and installation standard on site.
- B. Conform to UL requirements.
- C. Equipment and Components: Provide products that bear UL label or marking.
- D. Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories Inc., as suitable for the purpose specified and indicated.

**1.5 DELIVERY, STORAGE, AND PROTECTION**

- A. Store products in shipping containers and maintain in place until installation. Provide temporary inlet and outlet caps. Maintain caps in place until installation.
- B. Store piping off floor and out of elements. Provide cover for piping to prevent dirt and debris from entering piping. Piping and fittings shall be rust free when installed.

**1.6 EXTRA MATERIALS**

- A. Provide extra sprinklers of type and size matching those installed, in quantity required by referenced NFPA design and installation standard.
- B. Provide suitable wrenches for each sprinkler type.
- C. Provide metal storage cabinet located at piping entrance to building.

**PART 2 PRODUCTS**

**2.1 SPRINKLER SYSTEM REQUIREMENTS**

- A. Sprinkler System: Provide coverage for entire building.
- B. Occupancy: comply with NFPA 13.
- C. Water Supply: Contractor shall perform or have performed an NFPA-13 water flow test data and a 24 hour static pressure test. Adjust flow test to lowest pressure recorded by 24 hour test of one hour duration.
- D. Interface system with building fire alarm system.
- E. Provide fire department connections where indicated on FP and civil drawings.
- F. Exposed Area Type: Standard upright type.
  - 1. Finish: Brass.
  - 2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.
- G. Sidewall Type: Standard horizontal sidewall type with matching flush push on escutcheon plate.
  - 1. Finish: Chrome plated.
  - 2. Escutcheon Plate Finish: Chrome plated.
  - 3. Quick Response Glass bulb type temperature rated for specific area hazard.
- H. Gypsum Board Ceiling Type: Concealed pendant type with matching push on escutcheon plate.
  - 1. Finish: Brass.
  - 2. Escutcheon Plate Finish: Enamel. Verify color with architect.

**2.2 SPRINKLERS**

- A. Tyco and affiliates, Automatic Sprinkler, Reliable, Viking.
- B. All sprinklers installed shall be by the same manufacturer.
- C. Contractor shall select temperature ratings in accordance with NFPA 13, paragraph 8.3.2.
- D. Suspended Ceiling Type: Recessed pendant type with matching flush push on escutcheon plate.
  - 1. Finish: Brass.
  - 2. Fusible Link: Quick Response Fusible solder link type temperature rated for specific area hazard.
- E. Sidewall Type: Standard horizontal sidewall type with matching flush push on two piece escutcheon plate.
  - 1. Finish: Chrome plated.
  - 2. Escutcheon Plate Finish: Chrome plated.
  - 3. Quick Response Fusible solder link type temperature rated for specific area hazard.

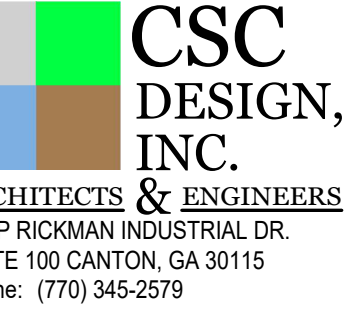
**2.3 PIPING SPECIALTIES**

- A. Dry Pipe Sprinkler Alarm Valve: Check type valve with divided seat ring, rubber faced clapper to automatically actuate water motor alarm and electric alarm, with accelerator; with test and drain valve.
- B. Water Motor Alarm: Hydraulically operated impeller type alarm with aluminum alloy chrome plated gong and motor housing, nylon bearings, and inlet strainer. By same manufacturer as Alarm Valve.
- C. Electric Alarm: Electrically operated chrome plated gong with pressure alarm switch.
- D. Water Flow Switch: Vane type switch for mounting horizontal or vertical, with two contacts; rated 10 amp at 125 volt AC and 2.5 amp at 24 volt DC. Notifier, Simplex, Potter, Grinnell.
- E. Tamper Switch: Switch designed for installation on indicator valves with cased aluminum housing with red finish. Notifier, Simplex, Potter, Grinnell.
- F. Fire Department Connections: Elkhart, Cramer Standard, Potter Roemer.
  - 1. Type: Free standing type with ductile iron pedestal chrome plated finish.
  - 2. Outlets: Two way with thread size to suit fire department hardware; threaded dust cap and chain of matching material and finish.
  - 3. Drain: 3/4 inch automatic drip, outside.
  - 4. Label: "Sprinkler – Fire Department Connection".

**PART 3 EXECUTION**

**3.1 INSTALLATION**

- A. Install in accordance with referenced NFPA design and installation standard and these specifications.
- B. Sprinklers shall be in line with and centered between down lights unless shown otherwise.
- C. Install equipment in accordance with manufacturer's instructions.
- D. Each floor of multi story buildings shall be zoned.
- E. All dry system piping shall be galvanized down stream of dry valve.
- F. Install buried shut-off valves in valve box. Provide post indicator.
- G. Provide approved double detector check assembly at sprinkler system water source connection.
- H. Locate fire department connection within forty (40'-0") feet of nearest fire hydrant and with sufficient clearance from walls, obstructions, or adjacent siamese connectors to allow full swing of fire department wrench handle.



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PROJECT NUMBER: 25-038

REVISIONS	NO.	DATE	ISSUE

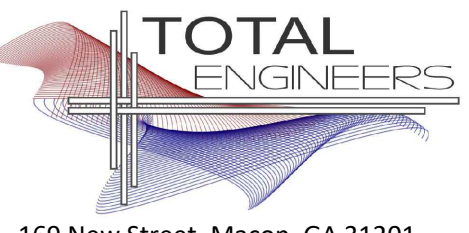
DRYWALL WAREHOUSE HWY 81

267 HIGHWAY 81  
OXFORD, GA 30054  
WALTON COUNTY,  
GEORGIA

FIRE SPECIFICATIONS

P-0.2

SCHEMATIC DESIGN



169 New Street, Macon, GA 31201  
(478)741-4632 - T.E. project # 26-20  
www.totalengineers.com  
GA COA NO # PE009195 EXP: 06/30/2026

#	NEW WORK NOTES - P-101
NOTE NUMBER	NOTE TEXT
#	

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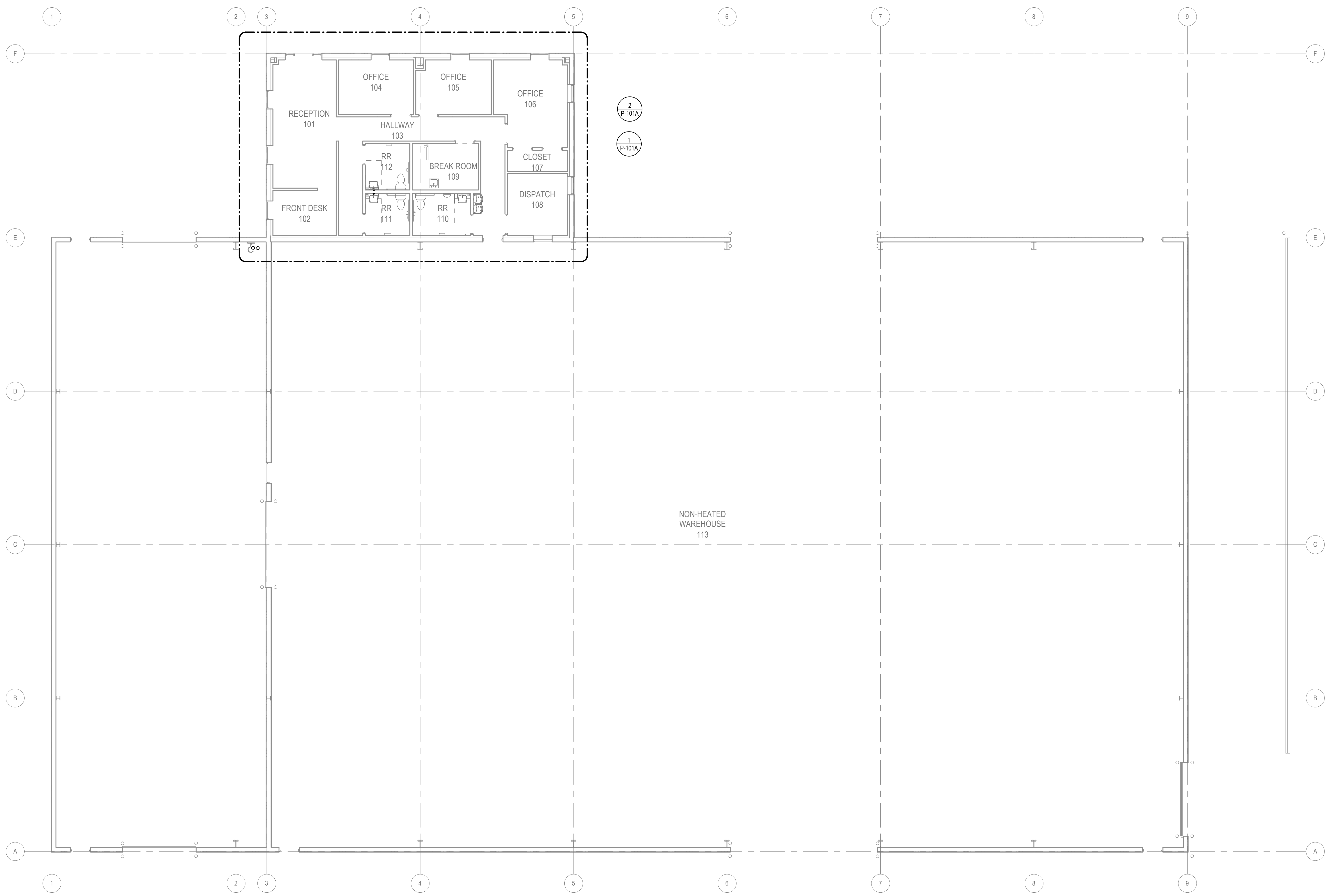
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REVISIONS	NO.	DATE	ISSUE

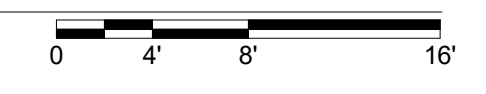
**DRYWALL WAREHOUSE HWY 81**  
 257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

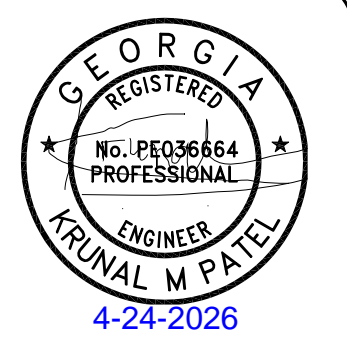
OVERALL PLUMBING PLAN

P-101



1 OVERALL PLUMBING PLAN  
 P-101 1/8" = 1'-0"





PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

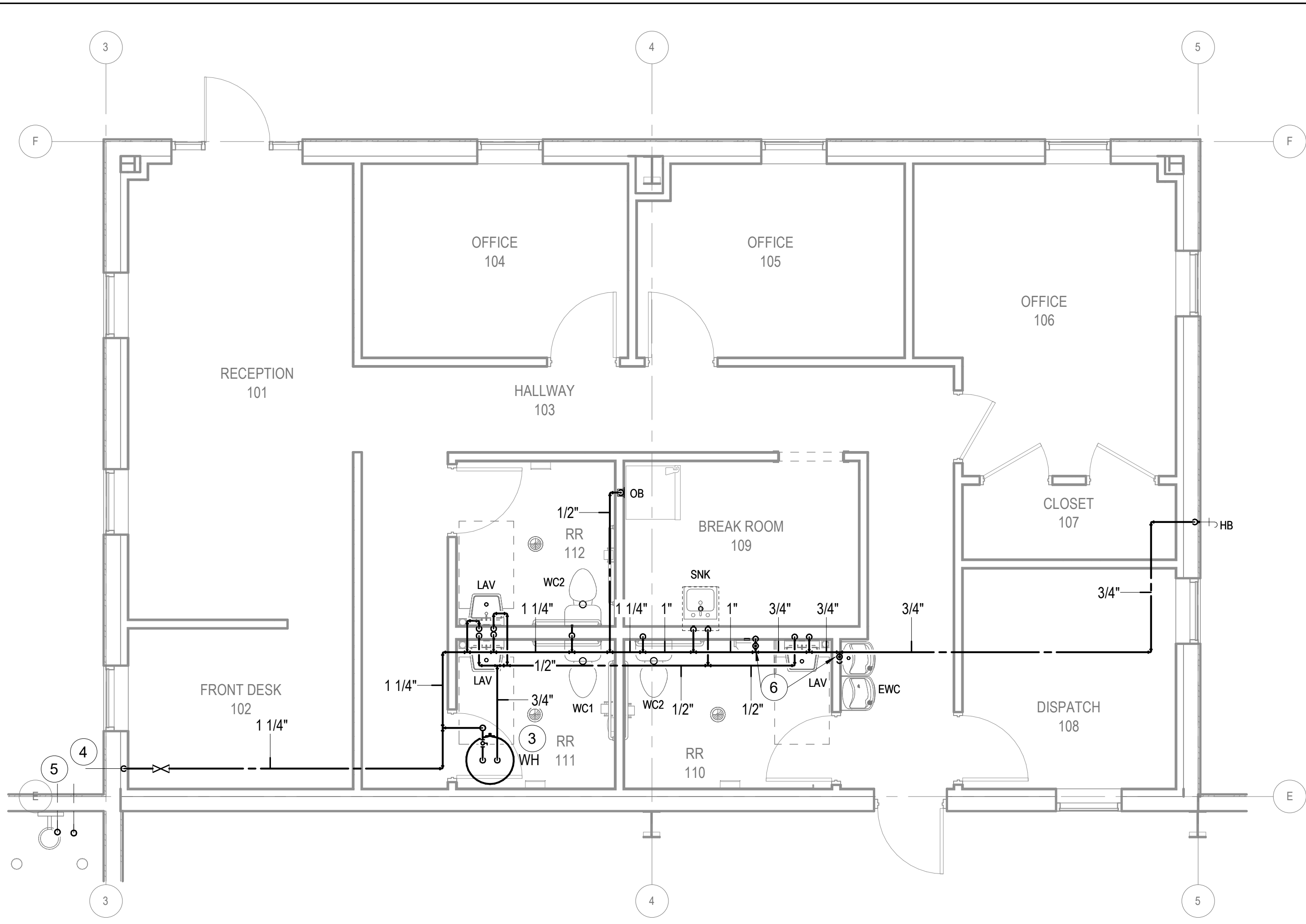
# DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81  
 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

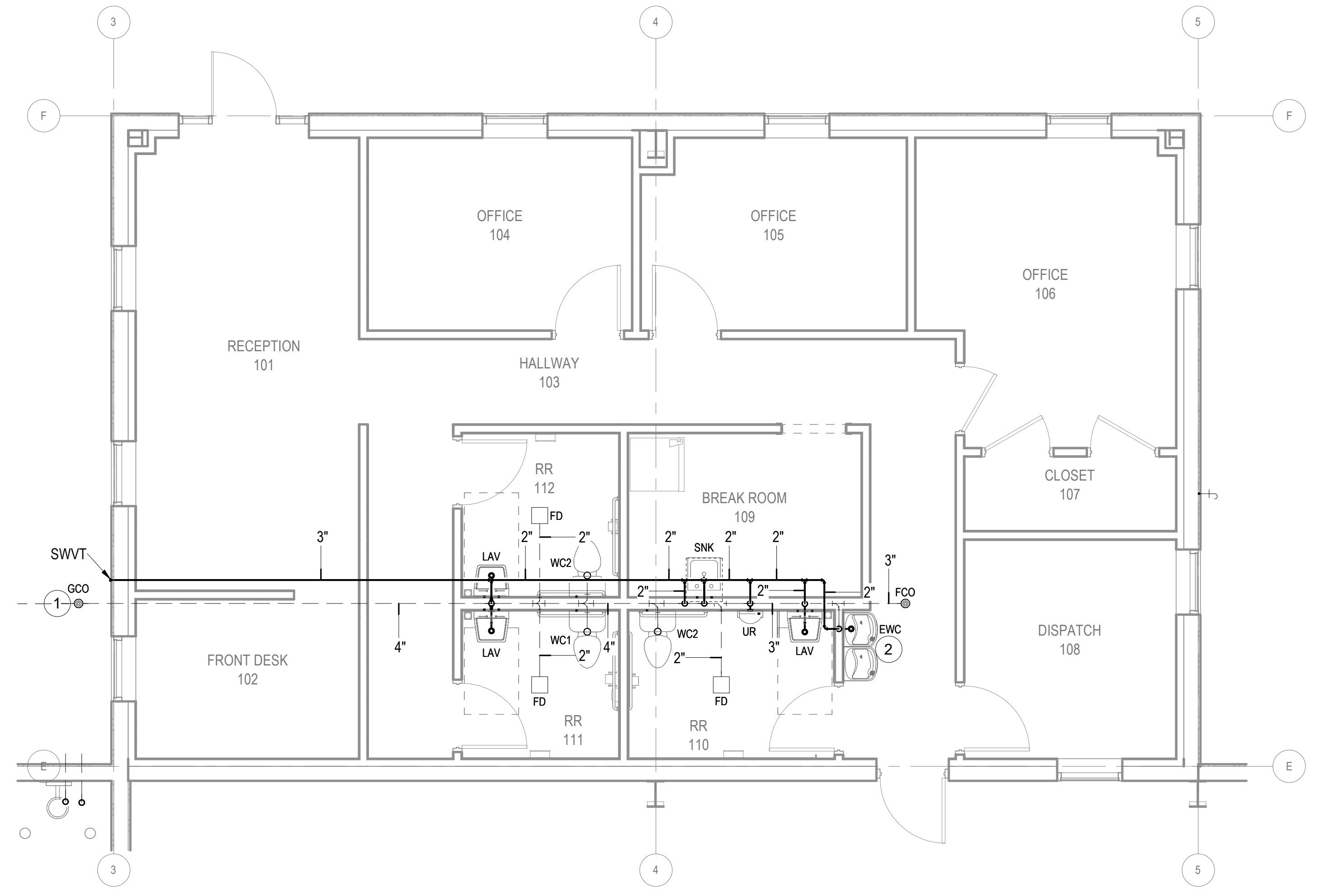
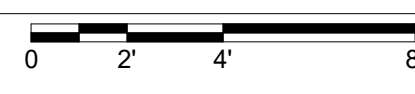
ENLARGED OFFICE PLUMBING PLAN

P-101A

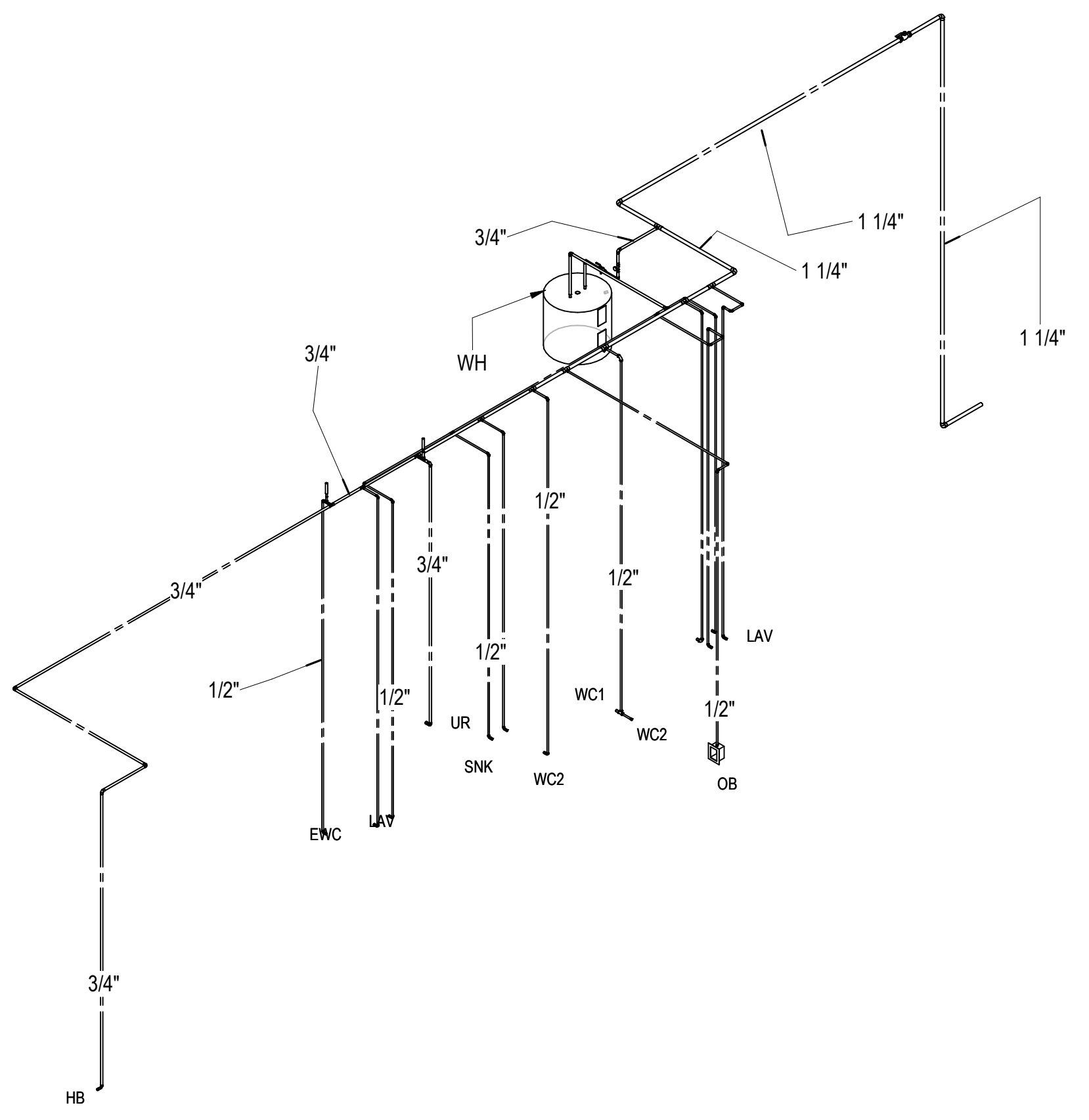
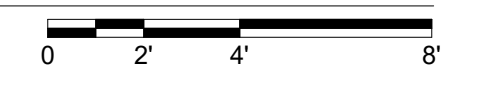
#	NOTE TEXT
1	4" SANITARY SEWER. REFER TO CIVIL FOR FURTHER INFORMATION.
2	PROVIDE P-TRAP PER MANUFACTURER'S INSTUCTIONS
3	REFER TO WATER HEATER SCHEMATIC PROVIDED
4	1-1/4" DOMESTIC WATER. REFER TO CIVIL FOR FURTHER INFORMATION
5	6" FIRE SINKLER FROM CITY SUPPLY & 4" TO REMOTE F.D.C. REFER TO CIVIL FOR CONTINUATION.
6	WATER HAMMER ARRESTOR. PDI-A



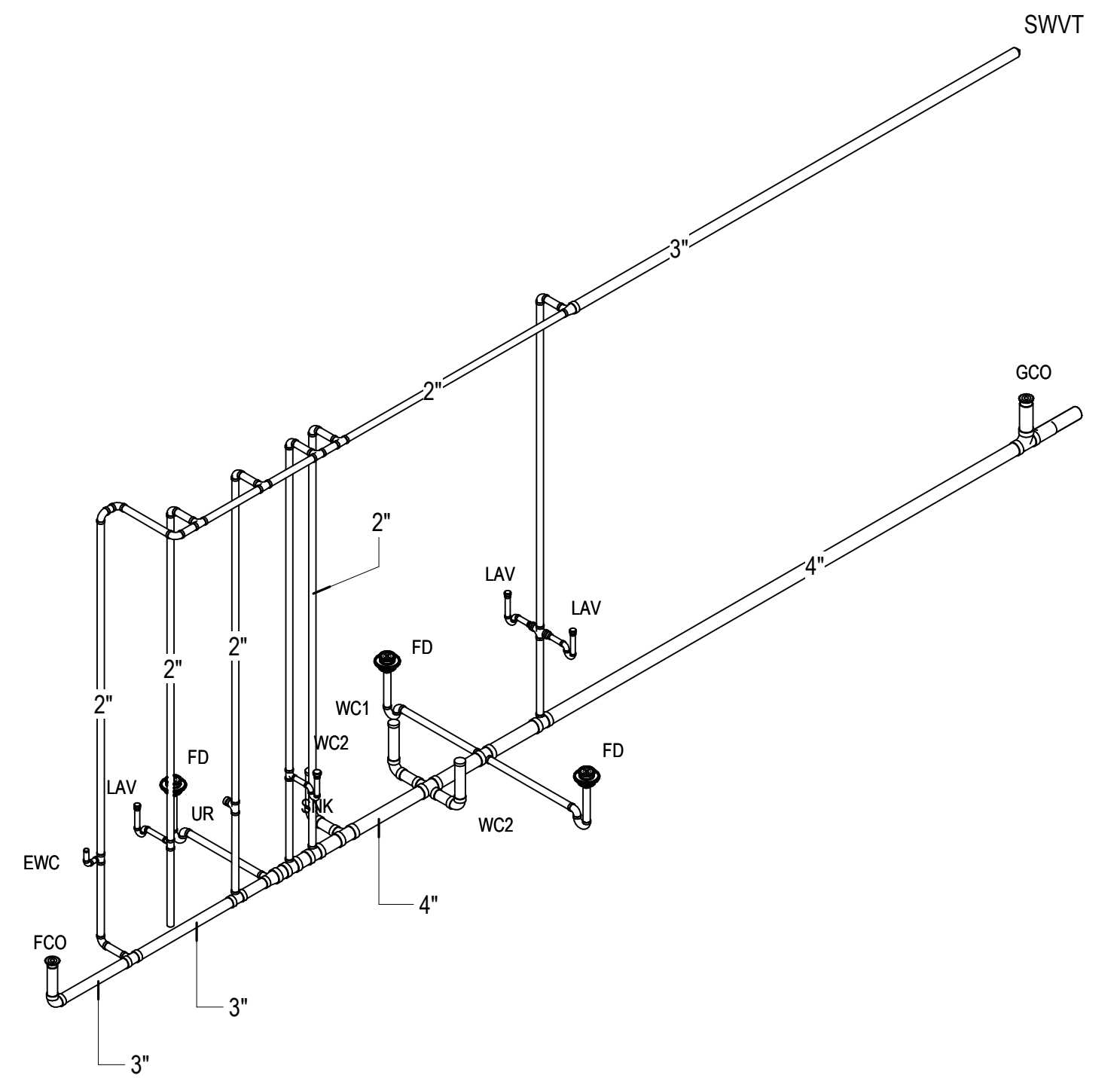
1 ENLARGED OFFICE PLUMBING PLAN - DOMESTIC WATER  
 P-101A 1/4" = 1'-0"



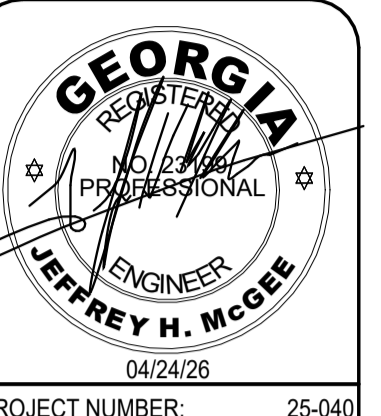
2 ENLARGED OFFICE PLUMBING PLAN - WASTE & VENT  
 P-101A 1/4" = 1'-0"



4 WATER RISER  
 P-101A NOT TO SCALE



3 WASTE AND VENT RISER  
 P-101A NOT TO SCALE



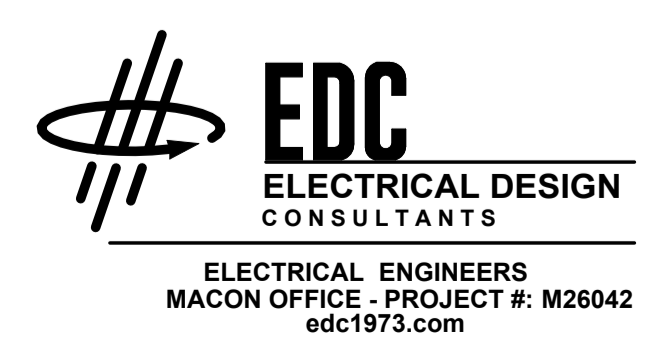
PROJECT NUMBER:	25-040
ISSUE:	
NO. DATE:	
REVISIONS:	

**DRYWALL WAREHOUSE HWY 81**

827 HIGHWAY 81  
 CANTON, GA 30104  
 WALTON COUNTY, GEORGIA

LEGEND, NOTES, DETAILS, AND FIXTURE SCHEDULE

**E-001**  
 ISSUED FOR CONSTRUCTION

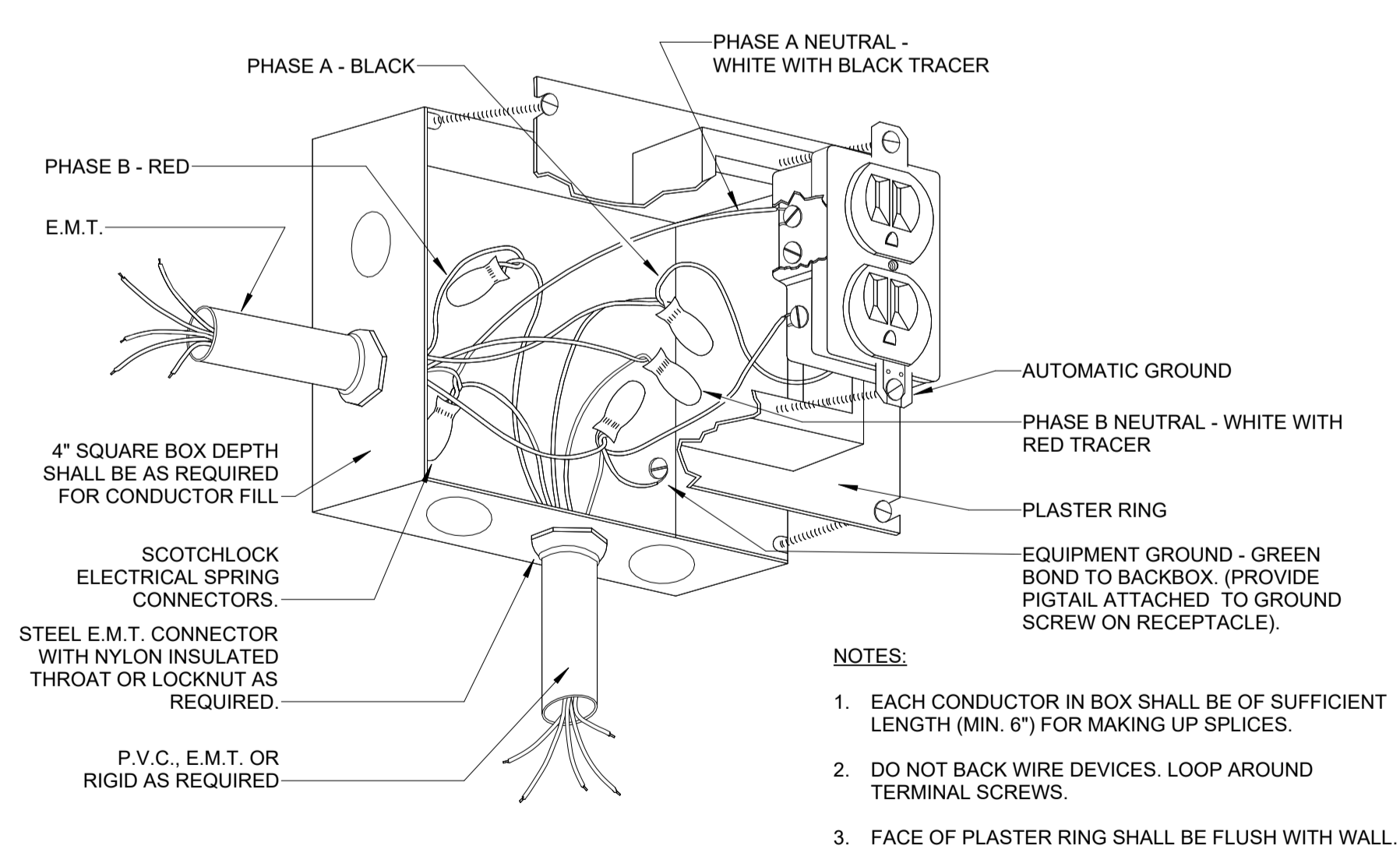


LIGHTING FIXTURE SCHEDULE		
A	2 FT. X 4 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING, FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY WHERE INDICATED ON THE PLANS.  LAMPS: LED, 6000 LUMENS, 51 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STAK" SER., COLUMBIA "CCL" SER., METALUX "ACHIEVA" SER., H.E. WILLIAMS "FT" SER.
B	2 FT. X 2 FT. ECONOMY RECESSED LOW PROFILE ARCHITECTURAL TROFFER WITH ACRYLIC CENTER LENS AND MATTE WHITE POWDER PAINT REFLECTOR; STANDARD 0-10 DIMMING, FIELD SELECTABLE LUMEN AND COLOR TEMP. PROVIDE 10 WATT BATTERY WHERE INDICATED ON THE PLANS.  LAMPS: LED, 5000 LUMENS, 43 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "STAK" SER., COLUMBIA "CCL" SER., METALUX "ACHIEVA" SER., H.E. WILLIAMS "FT" SER.
C	36 IN. LONG, SQUARE LINEAR VANITY FIXTURE; FROSTED ACRYLIC DIFFUSER PROVIDING SOFT EVEN ILLUMINATION; BRUSHED ALUMINUM FINISH END CAPS, SOLID BACK PLATE MOUNTING, DAMP LOCATION RATED, 0-10 DIMMING STANDARD.  LAMPS: LED, 5000 LUMENS, 35 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	TERON "CAPRI" SER., OR APPROVED EQUAL
D	4 FT. LED HIGHBAY, ALUMINUM HEAT SINK STANDARD, -40 TO 55 C OPERATION, LENSED LED STRIP FROSTED LENS, WIDE DISTRIBUTION, 80 CRI STANDARD, (WIRE GUARD - WG), PROVIDE 20 WATT EMERGENCY BATTERY PACK WHERE INDICATED ON THE DRAWINGS.  LAMPS: LED, 30,000 LUMENS, 184 WATTS, 3500 DEGREE K DRIVER: UNV. VOLT	LITHONIA "1BG" SER., METALUX "0HB" SER., COLUMBIA "CLB" SER.
OA	ARCHITECTURAL WALL PACK WITH DIE-CAST ALUMINUM HOUSING; WET LOCATION LISTED. COORDINATE FINISH WITH OWNER/ARCHITECT.  LAMPS: LED, 5700 LUMENS, 45 WATTS, 4000 DEGREE K DRIVER: UNV. VOLT	BEACON LIGHTING "TRP2" SER., LITHONIA "ARC2" SER., SPITZER "PEAK" SER., GARCCO "101L" SER.
EX	LED THERMOPLASTIC EXIT, IMPACT/SCRATCH RESISTANT AND CORROSION PROOF; TOP, END, OR BACK MOUNTING STANDARD, UNIVERSAL FIELD SELECTABLE SINGLE OR DOUBLE FACE, FIELD SELECTABLE RED OR GREEN ILLUMINATION, WHITE / BLACK ENCLOSURE (PROVIDE 90 MIN. BACK-UP BATTERY).  LAMPS: LED, 3 WATTS DRIVER: UNV. VOLT	LITHONIA "LQM" SER., SURE-LITES "LFX" SER., COMPASS "CE" SER.
EG	EXTERIOR ARCHITECTURAL STYLED LOW PROFILE LED EMERGENCY LIGHTING UNIT, SELF DIAGNOSTICS STANDARD, WET LOCATION WITH FULLY GASKETED HOUSING AND -20C TO 50C OPERATION, PRISMATIC POLYCARB REFRACTOR, BRONZE / BLACK SELECTED BY ARCHITECT. (PROVIDE 90 MIN. BACK-UP BATTERY).  LAMPS: LED, 3 WATTS DRIVER: UNV. VOLT	LITHONIA "AFO" SER., MULE "MAKO" SER., SPITZER "EWS" SER., COMPASS "CUW" SER., H.E. WILLIAMS "EMER" SER.

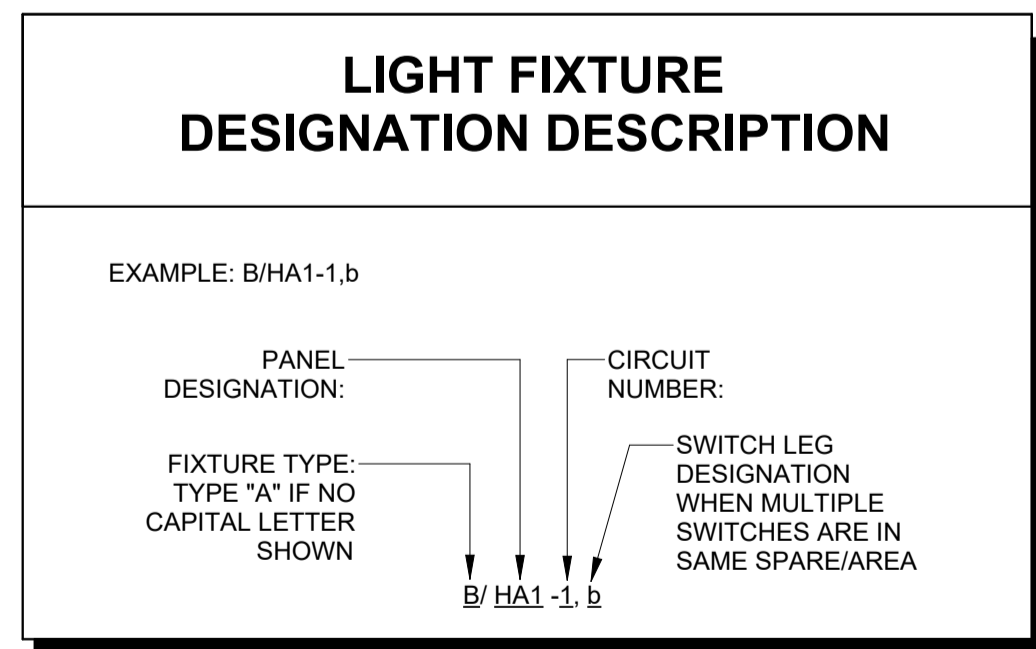
**NOTES:**  
 1. CONTRACTOR TO VERIFY ALL VOLTAGES, GRID AND CEILING TYPES WITH THE ARCHITECT AND COORDINATE FIXTURE DIMENSION SIZE TO ENSURE A PROPER FIT IN ALL CEILING TYPES PRIOR TO ORDERING.  
 2. ALL LUMENS LISTED ARE DELIVERED LUMENS. ALL EQUALS TO SPECIFIED FIXTURES SHALL NOT BE ANY LOWER THAN 5% OF SPECIFIED LUMENS. WATTAGE SHALL NOT BE HIGHER THAN 15% OF SPECIFIED WATTAGE.  
 3. LISTING OF MANUFACTURERS DOES NOT EQUAL AUTOMATIC APPROVAL. ALL CHARACTERISTICS NOTED IN DESCRIPTION SECTION MUST BE MET IN ORDER TO BE APPROVED. WHERE VENDOR/REP. DOES NOT HAVE ONE MANUFACTURER LISTED, PRIOR APPROVAL IS REQUIRED TO BE SUBMITTED TO ENGINEER TEN (10) DAYS PRIOR TO BID.  
 4. PROVIDE UNSWITCHED HOT TO EXIT SIGNS, EMERGENCY FLOOD LIGHTS AND EXTERIOR BUILDING EGRESS LIGHTING.

**GENERAL NOTES:**

- DO NOT SCALE DRAWINGS TO LOCATE EQUIPMENT OR OUTLETS.
- MOUNTING HEIGHTS AS INDICATED ON THE DRAWINGS SHALL BE FROM THE FINISHED FLOOR TO THE CENTER LINE OF THE OUTLET BOX.
- THE ELECTRICAL DRAWINGS ARE ONLY A PART OF THE CONTRACT DOCUMENTS. ALL OF THE DRAWINGS AND SPECIFICATIONS MUST BE REVIEWED FOR THEIR INTERRELATIONSHIP AND REQUIRED COORDINATION BETWEEN DISCIPLINES.
- 112 SYMBOL INDICATING ROOM OR SPACE NUMBER.
- IN AREAS WHERE COMPUTER OUTLETS AND TELEPHONE OUTLETS ARE LOCATED BENEATH A WINDOW, AND WINDOW PREVENTS THE ROUTING OF CONDUIT UP TO CEILING SPACE, CONDUIT SHALL BE ROUTED TO A WALL WHICH ALLOWS CONDUIT TO RISE UP TO CEILING SPACE.
- ALL CONDUIT ROUTED FROM DISCONNECT TO EXTERIOR HVAC UNITS SHALL BE ROUTED UNDERGROUND. TURN UP ADJACENT TO UNIT AND MAKE TRANSITION TO SEALTITE TO SERVE UNIT. CONDUIT SHALL BE ROUTED CONCEALED IN WALL.
- ALL FLUSH RECESSED OUTLET BOXES SHALL BE INSTALLED SUCH THAT FRONT EDGE OF BOX WILL NOT BE SET BACK OF THE FINISHED SURFACE MORE THAN 1/4" IN ORDER TO COMPLY WITH N.E.C. 314-20. SUPPORT OF OUTLET BOX BY RECEPTACLE AND COVERPLATE IS NOT ACCEPTABLE.
- ALL CONDUIT, OUTLET BOXES, AND LOW VOLTAGE CABLING SHALL BE APPROPRIATELY SUPPORTED THROUGHOUT THE PROJECT. SUPPORT OF THESE ITEMS BY CEILING GRID OR GRID SUPPORT WIRES IS NOT ACCEPTABLE.
- ALL RECEPTACLES LOCATED WITHIN 6'-0" TO THE EDGE SINK OR OTHER WATER SOURCE SHALL BE GFCI TYPE DEVICE IN ACCORDANCE WITH N.E.C 210-8.A.7. COORDINATE LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS PRIOR TO ROUGH-IN.
- COORDINATE EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH DIVISION 23 PRIOR TO ROUGH IN. ADJUST LOCATION OF DISCONNECTING MEANS AND BRANCH CIRCUITRY AS REQUIRED.



**1** DETAIL - RECEPTACLE CONNECTION  
 E-001 NO SCALE



PROVIDE ALL BRANCH CIRCUIT CONDUIT/CONDUCTORS AS NECESSARY TO CONNECT ALL DEVICES SHOWN ON THE CIRCUIT. PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS.

LEGEND	
LIGHTING AND POWER	
	CONDUIT RUN CONCEALED ABOVE CEILING OR IN WALL CONTAINING 3 NUMBER 12 CONDUCTORS UNLESS SHOWN OTHERWISE. HASH MARKS, IF SHOWN, INDICATE QUANTITY OF NUMBER 12 CONDUCTORS. WHERE DRAWING SPACE PROHIBITS HASH MARKS BEING SHOWN REFER TO CIRCUIT NUMBERS AND PROVIDE REQUIRED NUMBER OF CONDUCTORS PER CIRCUIT TYPE.
	CONDUIT RUN CONCEALED IN OR BELOW FLOOR SLAB, OR UNDERGROUND.
	HOMERUN TO PANELBOARD. LETTER OR LETTERS INDICATE PANELBOARDS, NUMBERS INDICATE CIRCUIT NUMBERS.
	EXPOSED CONDUIT RUN.
	L.E.D. FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
	EMERGENCY L.E.D. FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).
	L.E.D. FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS AND MOUNTING TYPE.
	EMERGENCY L.E.D. FIXTURE. SEE FIXTURE SCHEDULE FOR DIMENSIONS, MOUNTING TYPE AND BATTERY PACK INFORMATION (IF APPLICABLE).
	L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED.
	L.E.D. LIGHTING FIXTURE, SURFACE WALL BRACKET MOUNTED. MOUNTING HEIGHT AS NOTED. SEE FIXTURE SCHEDULE FOR BATTERY PACK INFORMATION (IF APPLICABLE).
	EXIT LIGHT.
	EMERGENCY PACK FIXTURE.
	JUNCTION BOX LOCATED ABOVE CEILING OR BELOW GRADE.
	JUNCTION BOX, FLUSH WALL MOUNTED.
	DUPLEX CONVENIENCE OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED. 5" INDICATES THE CIRCUIT NUMBER.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE. +18" TO CENTER LINE UNLESS OTHERWISE NOTED. "WP" WHERE SHOWN INDICATES WEATHER-RESISTANT DEVICE WITH METAL IN-SUE WEATHERPROOF COVER.
	DUPLEX CONVENIENCE OUTLET, GFI TYPE. MOUNTED ABOVE COUNTER AT +46" TO CENTERLINE OF RECEPTACLE UNLESS NOTED OTHERWISE.
	QUADRUPLX RECEPTACLE, +18" TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
	SINGLE POLE TOGGLE SWITCH, +46" TO CENTER LINE MOUNTING HEIGHT.
	THREE OR FOUR WAY SWITCH AS INDICATED. +46" TO CENTER LINE MOUNTING HEIGHT.
	LED DECORA STYLE DIMMER WITH ROCKER ON/OFF SWITCH AND SLIDE DIMMER ON SIDE OF ROCKER. 0-10VDC CAPABLE DIMMER +46" MOUNTING HEIGHT. LUTRON "DIVA 0-10V" OR EQUAL BY LEVITON, WATTSTOPPER, HUBBELL, OR COOPER. (NO ADDITIONAL POWER PACK REQUIRED). DIVISION 28 SHALL PROVIDE ALL ADDITIONAL CONDUCTORS TO ALL FIXTURES CONNECTED FOR A PROPER 0-10VDC OPERATION. GRAY FINISH.
	PANELBOARD, SEE SCHEDULE.
	DISCONNECT SWITCH, SIZE AS NOTED ON DRAWINGS. FUSED PER MANUFACTURER'S NAME PLATE DATA OF EQUIPMENT SERVED.
	SINGLE OR DOUBLE POLE, MINIMUM 20 AMP MOTOR RATED ENCLOSED SWITCH WITH "LOCK-OUT" OPTION, MOUNTED NEAR EQUIPMENT BEING SERVED.
	MOTOR.
OCCUPANCY SENSORS	
	SWITCH, WALL MOUNTED OCCUPANCY SENSOR (WATTSTOPPER PW-100 OR EQUAL). +46" TO CENTER LINE MOUNTING HEIGHT.
	DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, CEILING MOUNTED, INFRARED/ULTRASONIC (WATTSTOPPER "DT" SERIES OR EQUAL). PROVIDE ALL NECESSARY COMPONENTS TO INSURE PROPER OPERATION (POWER PACKS, SLAVE PACKS, ETC.)
FIRE ALARM (120V STAND ALONE)	
	DUCT SMOKE DETECTOR LOCATED IN HVAC SUPPLY AIR DUCT. PROVIDE IN UNITS 2000 CFM AND GREATER. STAND ALONE 120V UNIT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC CLOSET IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.
TELEPHONE / DATA SYSTEMS	
	PLYWOOD BACKBOARD "T.B." INDICATES TELECOMMUNICATIONS BOARD.
	COMBINATION VOICE/DATA OUTLET, +18" TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE. STUB UP 1". TO CEILING SPACE ABOVE.
	DATA OUTLET, (WIRELESS ACCESS POINT), +6" ABOVE ACCESSIBLE CEILING UNLESS NOTED OTHERWISE. WHERE THERE IS NO CEILING OR HIGH CEILING, WALL MOUNT AT +11" A.F.F.
C.C.T.V. SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)	
	CCTV SYSTEM CAMERA, WALL OR CEILING MOUNTED.
ACCESS CONTROL SYSTEM (RACEWAY, BOXES, AND PULL STRING ONLY)	
	ACCESS CONTROL KEYPAD LOCATION.
	DOOR CONTACT POSITION SENSOR LOCATION. PROVIDE SINGLE GANG BOX BY DIVISION 16 AT DOOR FRAME ON SECURE SIDE OF DOOR. COORDINATE EXACT LOCATION WITH ACCESS CONTROL SYSTEM VENDOR. PROVIDE 3/4"C., WITH PULLSTRING FROM BOX TO STUB-OUT 6" ACCESSIBLE CEILING AT DOOR.

**NOTES:**  
 1. ALL MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTERLINE OF OUTLET OR DEVICE.  
 2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT (TYPE "TR").

# ELECTRICAL SPECIFICATIONS

DIVISION 26  
ELECTRICAL

## SECTION A: GENERAL ELECTRICAL REQUIREMENTS

- THESE PLANS AND SPECIFICATIONS APPLY TO DRYWALL WAREHOUSE HWY 81, OXFORD, GEORGIA. THE WORK DESCRIBED BY THESE PLANS AND SPECIFICATIONS APPLY TO THE INDICATED PROJECT AND MAY NOT BE MODIFIED OR REUSED WITHOUT WRITTEN APPROVAL OF THE ENGINEER.
- ALL WORK SHALL BE PERFORMED BY LICENSED ELECTRICAL CONTRACTOR WITH MINIMUM OF TWO YEARS OF EXPERIENCE. LIST OF PREVIOUS JOBS AND REFERENCES SHALL BE MADE AVAILABLE UPON REQUEST. CONTRACTOR SHALL PROVIDE ADEQUATE INSURANCE FOR PERSONNEL AND SHALL REPAIR ANY DAMAGE OCCURRING AS THE RESULT OF THIS PROJECT SITE AND RELATED PROPERTY.
- ALL WORK SHALL BE PERFORMED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE, LIFE SAFETY CODE NFPA 101, ADA CODE, GA ACCESSIBILITY CODE, STATE OF GEORGIA ENERGY CODE AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
- ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
- ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITERS LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH IT'S LISTING.
- ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE FINAL COMPLETION DATE EXCEPT FOR FUSES AND LAMPS IN LIGHT FIXTURES. UPON NOTIFICATION OF A PROBLEM, THE CONTRACTOR SHALL INVESTIGATE THE PROBLEM WITHIN 48 HOURS UNLESS A DIFFERENT TIME PERIOD IS AGREED TO. THE CONTRACTOR SHALL INVESTIGATE, REPAIR OR REPLACE ALL FAULTY EQUIPMENT WITHIN A REASONABLE TIME PERIOD WITHOUT CHARGE TO THE OWNER.
- THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL ITEM IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.
- ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.
- ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.
- PLANS ARE DIAGRAMMATIC AND SHOW THE LOCATION OF THE EQUIPMENT, RACEWAY AND FIXTURES, AND ARE NOT TO BE SCALED. ALL DIMENSIONS SHALL BE VERIFIED AT THE BUILDING SITE.
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.
- EQUIPMENT BREAKER AND WIRING REQUIREMENTS; THE CONTRACTOR SHALL SUBMIT FOR REVIEW A TABULATED SHEET OF BREAKER AND WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT REQUIRING POWER AS SPECIFIED IN DIVISION 23. REQUIREMENTS SHALL BE IDENTIFIED BY HORSEPOWER OR KW, OPERATING AMPERAGE, REQUIRED VOLTAGE AND PHASE REQUIREMENTS, AND MANUFACTURERS SUGGESTED OVERCURRENT CIRCUIT PROTECTION DEVICE SIZE AND MINIMUM CIRCUIT AMPACITY SIZE. WHERE THE ELECTRICAL REQUIREMENTS SUBMITTED FOR MECHANICAL EQUIPMENT DIFFERS FROM THE BRANCH CIRCUITRY SHOWN ON THE ELECTRICAL DRAWINGS (WHEN USING THE BASIS OF DESIGN UNIT LISTED IN THE MECHANICAL SCHEDULES/SPECIFICATIONS OR A SIMILAR UNIT OF THE SAME SIZE FROM LISTED ALTERNATE MANUFACTURERS), THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS TO THE BRANCH CIRCUITRY PER THE CURRENT NEC AT NO ADDITIONAL COST TO THE OWNER. WHEN CHANGES ARE MADE TO POWER REQUIREMENTS FOR EQUIPMENT DUE TO OWNER, ARCHITECT/ENGINEER APPROVED VALUE ENGINEERING CHANGES TO EQUIPMENT, THE COST MUST BE INCLUDED IN THE VALUE ENGINEERING CHANGE ORDER. COSTS DUE TO ADJUSTMENTS IN BRANCH CIRCUITRY TO EQUIPMENT DUE TO VALUE ENGINEERING CHANGES WILL NOT BE ALLOWED AFTER THE OVERALL VALUE ENGINEERING CHANGE ORDER HAS BEEN APPROVED. IN ALL CASES, BREAKER AND WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT MUST BE PROVIDED TO THE ENGINEER BEFORE OR AT THE SAME TIME AS THE SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT. IN NO CASE SHALL THE ELECTRICAL DISTRIBUTION GEAR OR EQUIPMENT BE ORDERED OR BRANCH CIRCUITRY ROUGHED IN PRIOR TO ENGINEER REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN ON THE JOBSITE WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

## SECTION B: BASIC MATERIALS

- ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THIN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.
- ALL INTERIOR 120/208 VOLT, 20 AMP POWER AND LIGHTING WIRING SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING OR "MC" CABLE (IF NOT EXPOSED) FOR ALL INTERIOR CIRCUITS UNLESS OTHERWISE NOTED. IF "MC" CABLE IS USED, HOMERUNS SHALL BE IN 3/4 IN. EMT. POWER CIRCUITS FOR HVAC EQUIPMENT SHALL BE IN 3/4" ELECTRICAL METALLIC CONDUIT MINIMUM. ALL CONDUIT SHALL BE SUPPORTED FROM BUILDING STRUCTURE. IT SHALL NOT BE SUPPORTED FROM DUCTWORK, PIPING, CEILING GRID OR CEILING GRID SUPPORTS, OR ANY OTHER NON-STRUCTURAL ITEM. CONDUIT SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC. CONDUIT IN EXPOSED STRUCTURE AREAS SHALL BE EMT GALVANIZED RIGID STEEL CONDUIT SHALL BE USED IN AREAS WHERE IT WILL BE EXPOSED TO PHYSICAL DAMAGE.
- CONDUIT UNDERGROUND SHALL BE SCHEDULE 40 PVC. IF MORE THAN ONE CONDUIT IS PROVIDED IN A SINGLE TRENCH, THE CONDUIT SHALL BE RACKED WITH SPACERS EVERY FOUR FEET TO MAINTAIN A MINIMUM SPACING BETWEEN CONDUIT OF TWO INCHES. BACKFILL USED FOR UNDERGROUND INSTALLATIONS SHALL BE FREE OF FOREIGN MATTER. WHERE EXPOSED TO WEATHER, CONDUIT SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METALLIC CONDUIT. THE CONDUIT SHALL BE TERMINATED WITH LISTED FITTINGS AND ALL CONDUIT ENDS SHALL BE REAMED AND SMOOTH. ALL CONDUIT ENDS IN BOXES SHALL BE PROVIDED WITH INSULATED BUSHINGS.
- A #12 INSULATED COPPER GROUND CONDUCTOR SHALL BE INCLUDED IN ALL BRANCH CIRCUITS RATED 20 AMPERES. ALL OTHER CIRCUITS AND FEEDERS WILL BE PROVIDED WITH AN INSULATED COPPER CONDUCTOR SIZED AS NOTED OR IN ACCORDANCE WITH THE NEC, WHICHEVER IS GREATER.
- THE MINIMUM SIZE OF ALL CONDUCTORS NOT OTHERWISE INDICATED IS #12 AND THE MINIMUM SIZE OF ALL CONDUIT UNLESS OTHERWISE INDICATED IS 1/2 IN.
- ALL JUNCTION BOXES SHALL BE PROVIDED WITH COVERS AND ALL UNUSED OPENINGS SHALL BE PLUGGED. ALL JUNCTION BOXES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. COVERS OF BOXES SHALL BE LABELED WITH THE CIRCUIT NUMBER WITH A BLACK PERMANENT MARKER IN 3/4 IN. HIGH LETTERS (LEGIBLE HANDWRITTEN LETTERING IS ACCEPTABLE).
- ALL OUTLET BOXES SHALL BE SQUARE METAL BOXES. PROVIDE PLASTER RINGS FOR ALL OUTLET BOXES CONTAINING DEVICES TO PROVIDE A FIRM MOUNTING SUPPORT FOR THE DEVICE.
- ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR. TAMPER RESISTANT (TR) TYPE.
- ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.
- PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.
- PROVIDE BETWEEN 12 AND 24 INCHES OF LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN RIGID CONDUIT AND ANY EQUIPMENT CONTAINING MOTORS. THE FLEXIBLE CONDUIT SHALL BE SUPPORTED TO PREVENT THE CONDUIT FROM RESTING ON THE GROUND OR CONCRETE PAD.

- PROVIDE WEATHERPROOF RECEPTACLE WITHIN 25 FEET OF EACH PIECE OF EXTERIOR EQUIPMENT. THIS RECEPTACLE SHALL BE MOUNTED HORIZONTALLY WITH METAL HINGED "IN USE" COVER MOUNTED TO OPEN UP. THIS OUTLET SHALL BE A GFCI RECEPTACLE. THIS RECEPTACLE SHALL BE MOUNTED IN DIE CAST NON CORRODING METAL BOX.
- WHEN OUTLETS OR BOXES ARE INDICATED INSTALLED ON OPPOSITE SIDES OF THE SAME WALL, THE CONTRACTOR SHALL ADJUST THE LOCATION TO OFFSET THE OUTLETS WITH A WALL STUD PROVIDING SEPERATION.

## SECTION C: DISTRIBUTION EQUIPMENT

- CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.
- SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES IN INDOOR APPLICATIONS AND IN NEMA 3R ENCLOSURES IN EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.
- ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS WITHIN TEN FEET OF THE UNIT UNLESS OTHERWISE NOTED. THIS DISCONNECTING MEANS SHALL AS A MINIMUM BE A NON-FUSED SWITCH OR TOGGLE STARTER SIZED TO MATCH THE EQUIPMENT. PROVIDE OTHER DEVICES AS NOTED ON THE PLANS. PROVIDE NEMA TYPE I ENCLOSURES INDOORS AND NEMA 3R OUTDOORS.
- PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.
- PROVIDE PANELS AS SCHEDULED ON PLANS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC BREAKERS WITH A MINIMUM INTERRUPTING RATING OF 10,000 AIC FOR 120/208V AND 14,000 AIC FOR 277/480V OR AS INDICATED ON THE PLANS. BREAKERS SHALL HAVE 65/75 DEGREE C RATED TERMINATIONS. PANEL NOTED SHALL BE SERVICE ENTRANCE RATED. MOUNT PANELS WITH TOP OF PANEL 6 FT. ABOVE FLOOR. PROVIDE 3/4 IN., GREY PAINTED PLYWOOD BACKBOARD FOR ALL PANELS SECURED TO WALL WITH 1/4 IN. TOGGLE BOLTS. PANEL MANUFACTURERS SQUARE D, GE, SIEMENS, AND CULTRER HAMMER. ALL CURRENT CARRYING PARTS SHALL BE COPPER.
- SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON UL LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.
- PROVIDE EACH PANELBOARD WITH A TYPEWRITTEN CIRCUIT BREAKER DIRECTORY CARD INSIDE A PLASTIC COVERING (EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS). THE DIRECTORY CARD AND COVERING SHALL BE LOCATED INSIDE A STEEL FRAME PROVIDED INSIDE THE DOOR OF EACH PANELBOARD. THE DIRECTORY SHALL BE TYPED TO IDENTIFY THE LOAD FED BY EACH CIRCUIT BREAKER AND THE AREAS SERVED.
- PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRAKERS, COMBINATION STARTERS, CONTACTORS, AND ALL OTHER ELECTRICAL DISTRIBUTION EQUIPMENT PANELS. MOUNT NAMEPLATES ON EXTERIOR OF THE DOOR OF ALL SURFACE MOUNTED PANELS AND EQUIPMENT. NAME PLATES SHALL BE LAMINATED PLASTIC PLATES WITH 3/16 IN. HIGH WHITE LETTERS ETCHED ON BLACK BACKGROUND. NAME PLATES SHALL BE INSTALLED PARALLEL TO EQUIPMENT LINES. THE NAME OR USEAGE OF EACH DEVICE OR BRANCH CIRCUIT SHALL BE ETCHED IN THE NAMEPLATE. CONTRACTOR TO COORDINATE EXACT EQUIPMENT IDENTIFICATION WITH THE OWNER. SECURE NAMEPLATES VIA EPOXY GLUE.

## SECTION D: LIGHTING

- TYPES AND SPECIFIC REQUIREMENTS ARE PROVIDED ON THE LIGHTING FIXTURE SCHEDULE ON THE PLANS. ALL LIGHT FIXTURES SHALL BE PROVIDED WITH LAMPS, DRIVERS, BALLASTS, AND FULLY FUNCTIONING AT COMPLETION OF PROJECT.
- ALL LIGHTING FIXTURES SHALL BE U.L. LISTED AND HAVE A MINIMUM OF 5 YEAR ON-SITE REPLACEMENT WARRANTY FOR DEFECTIVE OR NON-STARTING SOURCE ASSEMBLIES, DRIVERS, AND FOR LUMINAIRES EXHIBITING INADEQUATE LUMEN OUTPUT. IT SHALL COVER MATERIAL, FIXTURE FINISH, WORKMANSHIP, AND SHIPPING. ON-SITE REPLACEMENT SHALL INCLUDE TRANSPORTATION, REMOVAL, AND INSTALLATION OF NEW FIXTURE.
- RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.
- BALLAST SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND CAPABLE OF DIMMING IF REQUIRED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).
- ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. OUTDOOR FIXTURES SHALL BE IP65 RATED. FIXTURES, BALLAST AND ALL COMPONENTS SHALL HAVE A SYSTEM LIFE TIME OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 50,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.
- ALL SURFACE MOUNTED FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE. ALL CEILING MOUNTED FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND BRACED TO PREVENT MOVEMENT IF IMPACTED.
- ALL RECESSED FIXTURES IN LAY IN TYPE CEILINGS SHALL BE PROVIDED WITH GRID CLIPS TO FASTEN FIRMLY TO CEILING SUPPORT GRID. THE CEILING GRID SHALL BE SUPPORTED AT EACH CORNER OF A FIXTURE.
- CONNECTION TO ALL FIXTURES IN LAYIN CEILING SHALL BE BY FLEXIBLE CONDUIT OF FOUR TO SIX FEET IN LENGTH. A GROUND CONDUCTOR WILL BE INCLUDED WITH THIS CONNECTION.
- ALL LENSES ON FIXTURES SHALL BE 0.125 INCH THICK MINIMUM. ALL HOUSINGS SHALL BE 22 GAUGE STEEL MIN. AND HAVE A POST FABRICATION HIGH REFLECTIVE WHITE FINISH.

DIVISION 27

TELE / DATA NETWORK

## SECTION E: CONDUIT AND OUTLET SYSTEM FOR TELE / DATA NETWORK

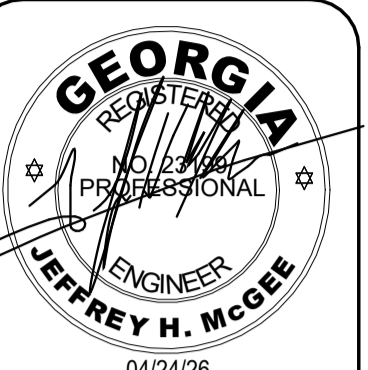
- PROVIDE A COMPLETE SYSTEM OF CONDUITS AND OUTLET BOXES FOR SYSTEMS AS REQUIRED. EACH OUTLET SHALL HAVE A CONDUIT ROUTED FROM THE FLUSHED RECESSED OUTLET BOX UP TO THE ACCESSIBLE CEILING SPACE ABOVE. TURN CONDUIT OUT ABOVE CEILING WITH A 90° HORIZONTAL ELBOW AND TERMINATE WITH AN INSULATED BUSHING. WHERE CEILING FINISH IS EXPOSED STRUCTURE (I.E. NO ACOUSTICAL TILE CEILING), EXTEND CONDUIT TO AN AREA WITH AN ACCESSIBLE CEILING. WHERE THERE ARE NO ACCESSIBLE CEILINGS, EXTEND CONDUIT TO BACKBOARD OR DATA RACK/CABINET AND TERMINATE WITH AN INSULATED BUSHING.
- ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. CONDUIT SHALL BE MINIMUM 1", WITH EXPOSED CONDUIT MINIMUM 3/4" TRADE SIZE. PROVIDE NYLON PULL STRING IN ALL CONDUIT. ALL CONDUIT FOR HORIZONTAL TELE / DATA CABLES AND FOR INTERIOR BACKBONE CABLING BETWEEN MDF AND IDF, SHALL BE ROUTED ABOVE GROUND AND SHALL BE EMT WITH COMPRESSION FITTINGS WHERE CONCEALED OR NOT SUBJECT TO DAMAGE, WHERE EXPOSED AND SUBJECT TO DAMAGE CONDUIT IS TO BE RIGID STEEL WITH THREADED FITTINGS.
- PROVIDE SERVICE ENTRANCE CONDUIT BELOW GRADE AT LOCATION AND ROUTING SHOWN OR NOTED. CONDUIT IS TO BE A MINIMUM OF TWO CONDUITS, EACH 13" ONE WITH THREE 1" INNERDUCTS (4" ONE WITH THREE 1/4" INNERDUCTS) PROVIDE PULL STRING IN EACH DUCT / INNERDUCT AND PROVIDE TRACER WIRE IN EACH CONDUIT.
- ALL CONDUIT FOR FIBER OPTIC CABLE SHALL UTILIZE LONG RADIUS ELBOWS, INSIDE RADIUS OF BEND OF NOT LESS THAN 18" FROM CENTER OF CURVATURE.
- LOCATION OF OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS AND HEIGHTS AS DEFINED ON LEGEND OR ELSEWHERE IN SPECIFICATIONS OR ON DRAWINGS.
- ALL RECESSED WALL OUTLETS AND BOXES IN NEW CONSTRUCTION SHALL BE TWO GANG TYPE, 4" X 4" X 2 1/8" DEEP, WITH SINGLE GANG PLASTER RINGS. PLASTER RINGS SHALL BE FLUSH WITH FINISH OF WALL. COORDINATE DEPTH OF PLASTER RING REQUIRED WITH TYPE OF WALL CONSTRUCTION. FOR SURFACE MOUNT BOXES PROVIDE 4" X 4" X 2 1/8" BOX WITH 2 GANG FACEPLATE WITH CENTERED SINGLE GANG KNOCKOUTS / PORT CUTOUTS. SEE SPECIFICATION F TELE / DATA NETWORK FOR FACEPLATE INFORMATION.
- COLOR AND MATERIAL OF FACEPLATES IS TO MATCH CONVENIENCE OUTLETS AND LIGHT SWITCHES, COORDINATE COLOR WITH ARCHITECT.
- BOXES FOR RECESSED INSTALLATION SHALL BE STANDARD SHEET METAL TYPE, FOR EXPOSED BOX LOCATIONS PROVIDE CAST TYPE BOX WITH THREADED HUBBS.
- PROVIDE JUMBO BLANK WALL PLATES FOR ALL OUTLETS NOT CABLED, FINISH TO MATCH ALL OTHER OUTLETS.

## SECTION F: TELE / DATA NETWORK

- GENERAL: THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TELE / DATA NETWORK AS FOLLOWS AND AS SHOWN ON PLANS. TELE / DATA NETWORK IS TO INCLUDE BUT NOT BE LIMITED TO THE INSTALLATION OF A PLYWOOD BACKBOARD, WITH (WALL / FLOOR) MOUNT CABINET(RACK(S)), BACKBONE AND/OR HORIZONTAL CABLING AND CABLE PATHWAY, SYSTEM, CABLE TERMINATIONS, WORKSTATION AND PATCHING CABLES, OUTLETS/CONNECTORS, BOXES, AND FACEPLATES. BOXES ARE TO BE FLUSH / RECESSED IN WALL AND CONDUIT CONCEALED IN WALL OR ABOVE CEILING, UNLESS NOTED OTHERWISE.
- ALL PRODUCTS ARE TO BE INSTALLED PER THE INSTALLATION DETAILS AND REQUIREMENTS OF THE RESPECTIVE MANUFACTURER NECESSARY TO MAINTAIN PERFORMANCE STANDARDS AND WARRANTY REQUIREMENTS. OBTAIN AND COORDINATE ALL INSTALLATION INSTRUCTIONS PRIOR TO ROUGH IN OF ANY CABLE PATHWAY.
- CODES AND STANDARDS: CONTRACTOR IS TO COMPLY WITH THE LATEST VERSION, INCLUDING SUPPLEMENTS, OF THE FOLLOWING STANDARDS OR CODES:
  - EIA / TIA - 568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
  - EIA / TIA - 569 COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.
  - EIA / TIA - 606 ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
  - EIA / TIA - 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.
- QUALIFICATIONS: DATA / VOICE CONTRACTOR SHALL SUBMIT CERTIFICATION STATING THAT HE IS AN AUTHORIZED REPRESENTATIVE AND CERTIFIED INSTALLER FOR THE MANUFACTURER OF THE EQUIPMENT HE IS SUBMITTING FOR APPROVAL. INSTALLATION SHALL BE COMPLETED BY TECHNICIANS THAT ARE FACTORY CERTIFIED FOR THE MANUFACTURER WHO'S PRODUCTS ARE BEING INSTALLED. SUBMIT VALID LOW VOLTAGE LICENSE OR CERTIFICATION OF AGENCY. VALID BICSI RCDD CERTIFICATE FOR CONTRACTOR, AND FACTORY CERTIFICATIONS FOR INSTALLATION TECHNICIANS, FOR REVIEW PRIOR TO ROUGH IN.
- WARRANTY: CABLING AND CONNECTORS FOR HORIZONTAL STATION OUTLET SERVICE ARE TO BE PROVIDED, TESTED AND WARRANTED AS A COMBINED END TO END SYSTEM. THE CONTRACTOR SHALL FURNISH WRITTEN LIMITED WARRANTY THAT DESCRIBES THE EQUIPMENT SUPPLIED UNDER THIS SPECIFICATION WILL BE FREE FROM DEFECTS OF MANUFACTURER MATERIAL OR WORKMANSHIP FOR A PERIOD OF FIFTEEN (15) YEARS FROM THE DATE OF FINAL ACCEPTANCE, AND FOR INSTALLATION MATERIAL AND TESTING OF HORIZONTAL CHANNEL SHALL BE FREE OF DEFECT FOR A PERIOD OF TWO (2) YEARS. ALL DEFECTS OCCURRING WITHIN THOSE PERIODS SHALL BE CORRECTED IN A TIMELY MANNER AT NO COST TO OWNER.
- SUBMITTALS: CONTRACTOR IS SUBMIT THE FOLLOWING INFORMATION FOR REVIEW PRIOR TO PROCUREMENT OF ANY PRODUCT SPECIFIED:
  - CONTRACTOR AND INSTALLER CERTIFICATIONS.
  - SUBMIT A ONE-LINE SCHEMATIC OF THE COMPLETE SYSTEM SHOWING FLOOR PLAN TO SCALE, SHOWING LOCATIONS AND TYPES OF EQUIPMENT AND CABLES.
  - MANUFACTURERS STANDARD PRODUCT DATA FOR ALL ITEMS PROVIDED, ALL CUT SHEETS SHALL BE FULLY ANNOTATED TO INDICATE PRODUCTS PROVIDED.
  - MANUFACTURERS PUBLISHED WARRANTY INFORMATION.
  - SUBMIT SAMPLE TEST REPORT, AND TESTING EQUIPMENT TO BE USED.
  - DOCUMENTATION OF TESTING / TEST DATA RESULTS OF ALL WIRING AND TERMINATIONS AND CONFORMANCE TO WARRANTY REQUIREMENTS (SUBMITTED AFTER INSTALLATION).
- TESTING AND CERTIFICATIONS:
  - COPPER CABLE SYSTEMS: ALL DATA AND VOICE TERMINATIONS SHALL BE TESTED AND CONFORM TO TIA/EIA-568 C.2 FOR STANDARD. TESTING SHALL BE ACCOMPLISHED USING A POE (CLASS 1-8) CABLE + NETWORK SCANNER, FLUKE LIQ-100 OR FLUKE MS-POE-IE. (OR PRIOR APPROVED EQUAL). TEST EACH PAIR AND SHIELD OF CABLE FOR OPENS, SHORTS, GROUNDS AND PAIR REVERSALS. CORRECT ALL GROUNDS OR PAIR REVERSALS, WHERE A REPAIR IS NOT POSSIBLE REPLACE ENTIRE CABLE AND RETEST TO ENSURE COMPLIANCE WITH STANDARDS.
  - TEST RESULTS: ALL COMMUNICATIONS OUTLETS WIRED AND SERVICEABLE AND SUPPORTING HORIZONTAL OR BACKBONE CABLING SHALL BE FULLY TESTED PER THE APPROPRIATE STANDARD NOTED ABOVE AND TEST RESULTS SUBMITTED TO SHOW COMPLIANCE WITH STANDARDS, INCLUDING AT LEAST THE FOLLOWING INFORMATION OR ITEMS CLEARLY DETAILED, NOT LESS THAN 7 DAYS PRIOR TO FINAL INSPECTION:
    - WIRE MAP
    - LENGTH
    - INSERTION LOSS
    - NEAR-END CROSSTALK (NEXT)
    - POWER SUM NEAR END CROSSTALK (PSNEXT)
    - EQUAL-LEVEL FAR END CROSSTALK (ELFEXT)
    - POWER SUM EQUAL-LEVEL FAR END CROSSTALK (PSLEFEXT)
    - RETURN LOSS
    - PROPAGATION DELAY

- RACK AND CABINET:
  - WALL MOUNT DATA CABINET: PROVIDE AND INSTALL A WALL MOUNT SWING GATE TYPE ENCLOSED LOCKABLE CABINET WITH CLEAR PLEXI FRONT DOOR INSERT, HAVING FRONT AND REAR HINGES TO ALLOW FRONT OR REAR ACCESS TO CONNECTIONS. THE CABINET IS TO BE SIZED FOR INSTALLATION OF STANDARD 19" PANELS AND CABLE MANAGEMENT AND HAVE FULLY ADJUSTABLE EIA COMPLIANT MOUNTING RAILS. ENCLOSURE IS TO BE PROVIDE WITH FRONT AND REAR WIRE MANAGEMENT FOR EACH PATCH PANEL OR PLATE, A GROUND BAR, AND VENTS ON TOP, BOTTOM AND BOTH SIDES. PROVIDE CABINET WITH 24U VERTICAL MOUNTING SPACE AND MIN. 24" DEPTH. SECURE THE CABINET TO WALL BY MINIMUM 300 POUND ANCHORS, WHERE ON DRYWALL ENSURE THE ANCHORS ARE SUPPORTED FROM STUD IN WALL. CABINET TO BE CHATSWORTH "CUBE-IT" SERIES, SIEMON "WC2P" SERIES, OR APPROVED EQUAL.
- ENHANCED CATEGORY 6 (6E) CABLE AND CONNECTORS:
  - CAT 6E CABLE: PROVIDE AND INSTALL PREMIUM / QUANTITIES CATEGORY 6 (6E) DATA CABLE AND CONNECTORS AT LOCATIONS AND ENTHANCES SHOWN OR NOTED ON THE PLANS FOR VOICE AND DATA COMMUNICATIONS SYSTEM. CABLE IS TO HAVE FOUR (4) UNSHIELDED TWISTED PAIRS (UTP) OF CONDUCTORS THAT ARE MINIMUM 23 AWG INDIVIDUALLY INSULATED, WITH A CENTER ISOLATION MEMBER SEPARATING EACH OF THE 4 INDIVIDUALLY TWISTED PAIRS. PROVIDE CABLES THAT MEET OR EXCEED THE PERFORMANCE STANDARDS OF ANSI / TIA-568.2-D AND ISO / IEC 11801-1, AND ARE MANUFACTURER TESTED TO 550 MHz FREQUENCY, MINIMUM. THE JACKET IS TO BE PLENUM RATED (CMP) WITH FEP INSULATION, BLUE COLOR, OR AS SHOWN AND NOTED ON DRAWINGS, OR AS DIRECTED BY OWNER. CABLE IS TO BE SIEMON "PREMIUM 6 UTP (G08PR-E4-XX)" SERIES OR APPROVED EQUAL.
  - WORST CASE TRANSMISSION PERFORMANCE ACCEPTABLE FOR CAT 6E CABLE AT 550 MHZ, BASED ON 100 METER CHANNEL LENGTH:
    - INSERTION LOSS - 50.2dB
    - NEXT - 40.2dB
    - PSNEXT - 38.2dB
    - ACR - -10.0dB
    - PSACR - -12.0dB
    - ACR-F - 19.9dB
    - PSACR-F - 16.9dB
    - RETURN LOSS - 14.9dB
    - PROPAGATION DELAY - 536ns
  - CAT 6 CONNECTORS: PROVIDE AN INSTALL CATEGORY 6 MODULAR CONNECTORS THAT ARE DUAL LABELED FOR 568-A/B INSTALLATION AND USE. PROVIDE ANGLED MODULES FOR WORKSTATION OUTLETS AND FLAT FRONT MODULES FOR INSTALLATION IN PATCH PANELS OR FOR WALL INSTALLATION. PROVIDE CONNECTORS ON EACH END OF EACH CABLE, AND PROVIDE AN ADDITIONAL 20% OF THE TOTAL NUMBER OF CONNECTORS USED AS SPARE. CONNECTOR MODULES ARE TO BE SIEMON "MAX-6 (MX6)" OR "Z-MAX-6 (Z6)" SERIES OR APPROVED EQUAL.
  - CAT 6 PATCH / STATION CORDS: FOR EACH CATEGORY 6 OR 6E TELE / DATA PORT INSTALLED, PROVIDE ONE WORKSTATION CABLE AND ONE PATCH CORD. CABLES ARE TO BE STANDARD CATEGORY 6, STATION CABLES ARE TO BE BLUE AND 2 METER IN LENGTH, PATCH CORDS ARE TO BE 2 METERS IN LENGTH AND YELLOW IN COLOR. CABLES / CORDS ARE TO BE SIEMON "MC-6 UTP" SERIES OR APPROVED EQUAL.
- PATCH PANEL AND WIRE MANAGEMENT:
  - FOR WALL MOUNT DATA CABINET, PROVIDE MODULAR PATCH PANELS THAT ARE COMPATIBLE WITH CONNECTOR MODULES SPECIFIED. PATCH PANELS ARE TO BE STANDARD 19" WIDTH, TYPICALLY 1U MOUNTING HEIGHT FOR 16 OR 24 PORT PANELS AND HAVE FLAT FRONT CONNECTOR MODULES, AND 2U MOUNTING HEIGHT FOR 48 PORT PANELS. PROVIDE TYPICAL 16, 24 OR 48 PORT FLAT PANELS AS NOTED ON DRAWINGS OR AS REQUIRED FOR FULL INSTALLATION. PANELS ARE TO HAVE ONE PORT FOR EACH HORIZONTAL CABLE PLUS 25% SPARE / OPEN PORTS AND ALL PORTS ARE TO BE PROVIDED WITH PRINTED LABEL HOLDERS. OPEN PORTS ARE TO BE PROVIDED WITH FILLER PLATES. PATCH PANELS ARE TO BE SIEMON "MAX" PATCH PANELS OR APPROVED EQUAL.
  - WIRE MANAGEMENT: PROVIDE FRONT AND REAR 1U WIRE MANAGEMENT BAR FOR EACH PATCH PANEL PROVIDED. PROVIDE ONE ADDITIONAL PAIR OF WIRE MANAGEMENT BARS TO ALLOW AN ABOVE AND BELOW INSTALLATION OF WIRE MANAGEMENT. PRODUCT TO BE SIEMON "WM-143" SERIES OR APPROVED EQUAL.
- FACEPLATES: FOR WORK AREA OUTLETS, PROVIDE MODULAR FACEPLATES THAT ALLOW INSTALLATION OF AND ARE FULLY COMPATIBLE WITH THE MODULAR CONNECTORS SPECIFIED ABOVE. PROVIDE PLATES OF THE SAME MATERIAL AS DUPLEX OR SWITCH PLATES AND SAME COLOR. PROVIDE BLANK FILLER PLATE FOR ANY CUTOUTS THAT ARE NOT USED. PLATES ARE TO BE SIEMON "CT" FACEPLATES OR APPROVED EQUAL.
- WIRELESS ACCESS POINTS: PROVIDE WIRELESS ACCESS POINTS AS SHOWN OR NOTED ON PLANS AND PER SPECIFICATIONS BELOW. AT LOCATIONS SHOWN PROVIDE DUAL PORT "BISCUIT" TYPE SURFACE MOUNT BOX, WITH TWO (2) CATEGORY 6 PORTS AND OUTLETS/JACKS. MOUNT BOX ABOVE CEILING ON STANDARD 4X4 JUNCTION BOX WITH FACEPLATE AS REQUIRED. LOCATE AND MOUNT BOX SO THAT THERE ARE NO OBSTRUCTIONS TO ACCESS FROM BELOW FOR ACCESS POINT INSTALLATION. SURFACE MOUNT BOX TO BE SIEMON "MX-SM" SERIES OR EQUAL.
- TELE / COMM BACKBOARD: PROVIDE A MINIMUM 3/4" X 4" X 6" PLYWOOD TELECOM BACKBOARD (OR AS SHOWN ON PLANS FOR LARGER AREAS), SECURE TO WALL WITH STUDS WITH MINIMUM 300 POUND ANCHORS. PAINT BACKBOARD WITH FLAT GRAY OR BLACK FIRE-PROOFING / FLAME RETARDANT INTUMESCENT LATEX PAINT.
- CABLE SUPPORTS:
  - J-HOOK CABLE SUPPORTS: PROVIDE 4" OPEN TYPE CABLE HOOKS WITH CABLE RETAINER CLIPS FOR SUPPORT OF TELE/DATA CABLING. HOOKS ARE TO BE SPACED AT A MAXIMUM LATERAL DISTANCE OF 48 INCHES. HOOKS ARE TO BE PRE-GALVANIZED FINISH, WITH STATIC LOAD CAPACITY OF AT LEAST 30 POUNDS. WHERE PROTECTION SYSTEMS ARE ROUTED USING PLENUM CABLE EXPOSED, PROVIDE SEPARATE CABLE SUPPORTS AND INCLUDE COLOR CODE ID CLIPS (RED - FOR PROTECTION SYSTEMS). SUPPORT FROM WALL OR STRUCTURE PER MANUFACTURERS GUIDELINES AND INSTALLATION INSTRUCTIONS. PRODUCT IS EATON / B-LINE "CABLE HOOK / J-HOOK" SERIES OR APPROVED EQUAL.
- GROUNDING: PROVIDE A TELECOM GROUND BAR, 1/4" X 2" X 15' COPPER GROUND BAR MEETING REQUIREMENTS OF TIA-607-G/D AND NEW STANDARDS. PROVIDE WITH UNIVERSAL HOLE PATTERN OF 5/16" AND 7/16" HOLES PRE-DRILLED, AND 3" INSULATED STANDOFF BRACKETS. PROVIDE AND ROUTE A MINIMUM #4 AWG COPPER GROUNDING CONDUCTOR FROM THE TELECOM GROUND BAR TO THE MAIN ELECTRICAL SERVICE ENTRANCE GROUND, AND BOND PER BICSI RECOMMENDATIONS. EXTEND A #10 GROUNDING CONDUCTOR FROM GROUND BAR TO THE GROUND LUG ON EACH RACK OR CABINET PROVIDED. PRODUCT IS THE NVENT / ERICO "TGBA-XX" SERIES OR APPROVED EQUAL.
- LABELING: ALL CABLING, CORDS, PORTS AND EQUIPMENT SHALL BE LABELED PER THE ANSI/TIA-606-D ADMINISTRATION STANDARDS FOR TELECOMMUNICATIONS INFRASTRUCTURE STANDARD. LABELS ARE TO BE PERMANENT TYPE AFFIXED FOR EASE VISIBILITY AND IDENTIFICATION AT EACH TERMINATION, AND IN EACH BOX OR CABINET. EACH JACK SHALL HAVE FACEPLATE LABELED WITH MANUFACTURER PROVIDED PRINTED TEMPLATE. ALL DROPS IN A COMMON SPACE SHALL BE LABELED SEQUENTIALLY WITH ROOM AND CABLE IDENTIFIER. LABELS SHALL BE CONSISTENT BETWEEN RACK AND WORK AREA OUTLETS, AND ALL LABELS SHALL BE CLEARLY RECORDED AND MARKED ON THE WIRE MAP SUBMITTED. TAPE TYPE LABELS AND HANDWRITTEN LABELS ARE NOT ACCEPTABLE.
- MANUFACTURERS: ENHANCED CATEGORY 6 (6E) CABLING AND CONNECTORS FOR HORIZONTAL STATION OUTLET SERVICE ARE TO BE PROVIDED, TESTED AND WARRANTED AS A COMBINED END TO END SYSTEM. PROVIDE ALL CABLE AND CONNECTORS BY ONE COMMON MANUFACTURER. SPECIFIED PRODUCTS ARE BY BASIS OF DESIGN MANUFACTURER "SIEMON" FOR ENHANCED CATEGORY 6 (6E) CABLE AND FOR CORRESPONDING CATEGORY 6 CONNECTORS, OTHER APPROVED MANUFACTURERS OF CABLE / CONNECTORS FOR A FULL END TO END SOLUTIONS ARE:
  - SIEMON "PREMIUM 6 UTP" SERIES - BASIS OF DESIGN
  - HUBBELL "NEXTSPEED 6E"
  - COMMSCOPE SYSTEMMAX "GIGASPEED XL-2071E"
  - PANDUIT "TX6000"
  - BERKTEK "LANMARK-2000" / LEVITON CONNECTORS
  - BELDEN "3600"
  - MOHAWK "ADVANCENET" / BELDEN CONNECTORS
  - OR APPROVED EQUAL

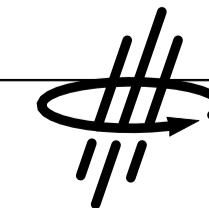
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**DRYWALL WAREHOUSE HWY 81**

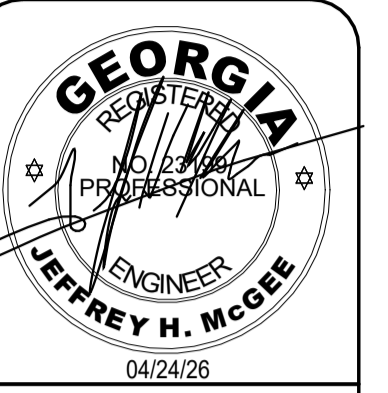
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 OXFORD, GA 30054  
 WALTON COUNTY, GEORGIA

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PROJECT NUMBER: 25-040

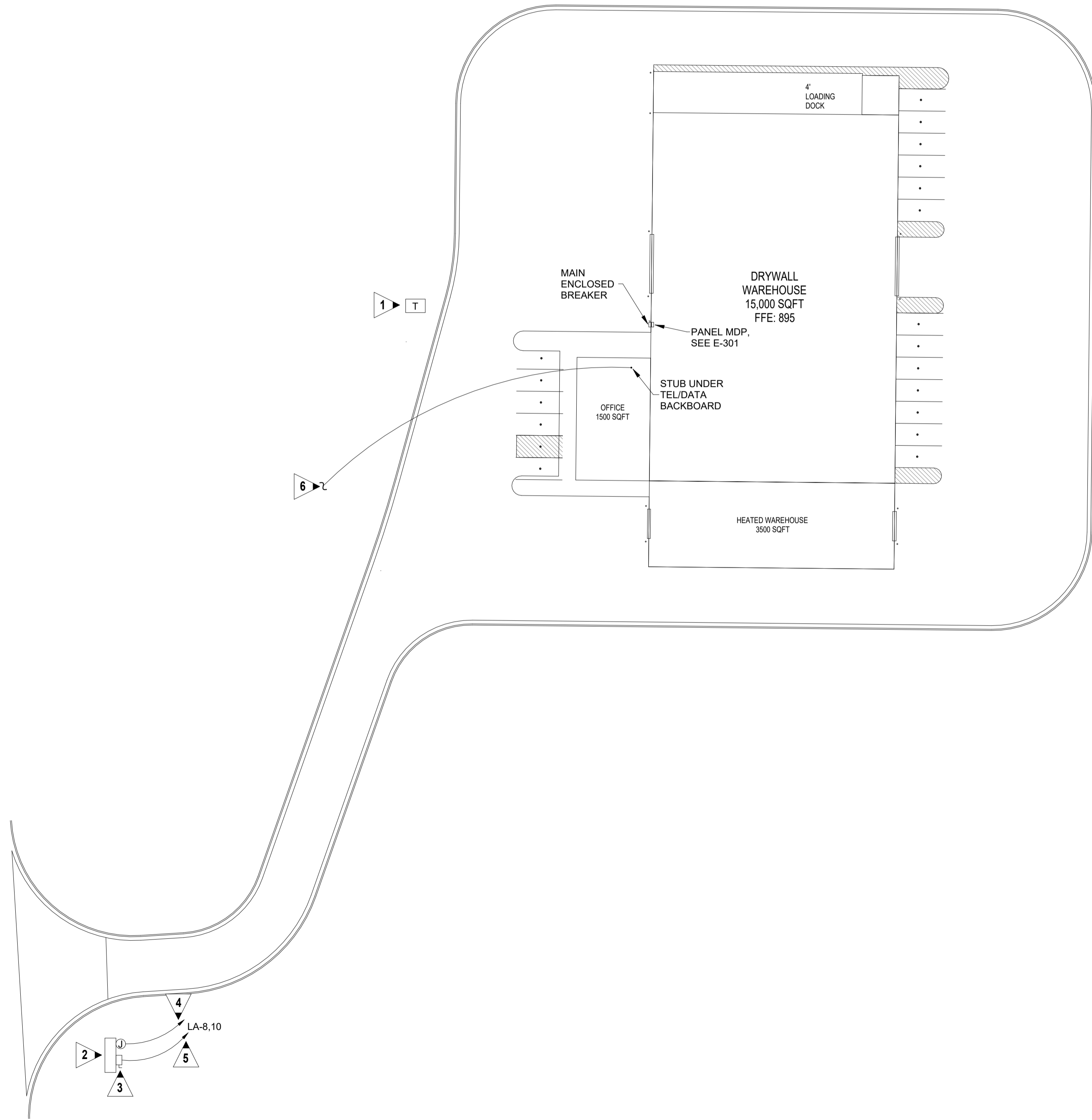
REVISIONS NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**

857 HIGHWAY 81  
CANTON, GA 30115  
WALTON COUNTY, GEORGIA

SITE PLAN - ELECTRICAL

**E-101**  
ISSUED FOR CONSTRUCTION



**KEYED NOTES:**

- 1 COORDINATE EXACT LOCATION OF UTILITY COMPANY TRANSFORMER PRIOR TO ANY ELECTRICAL WORK.
- 2 STREET SIGN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH EQUIPMENT PROVIDED. SIGN MUST STAY CLEAR OF UTILITY EASEMENTS. MAKE ALL CHANGES REQUIRED.
- 3 PROVIDE A 30A/2P/3R DISCONNECT WITH 3#6, #8G., 1 IN. C. (INCREASED SIZE FOR VOLTAGE DROP).
- 4 ROUTE A 1 IN. C. FROM SIGN TO ELECTRICAL CLOSET FOR CONTROLS.
- 5 ROUTE VIA 8 POLE EXTERIOR LIGHTING CONTACTOR/TIME CLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIME CLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 2 ON SHEET E-201. USE #10'S ENTIRE CIRCUIT UNLESS OTHERWISE NOTED. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
- 6 ROUTE FROM TELE/DATA BACKBOARD TO UTILITY COMPANY SERVICE POINT. COORDINATE WITH SERVING UTILITY COMPANY PRIOR TO ROUGH-IN. PROVIDE (2) 3 IN. CONDUITS FOR TELE/DATA. FIELD VERIFY EXACT LOCATION OF UTILITY SERVICE POINTS. SEE TELE/DATA RISER, 7/E-501.

**GENERAL NOTES:**

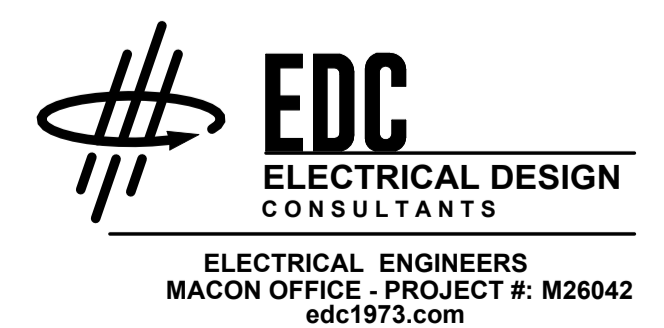
- A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS OF SITE AND WITH OFFICIAL SURVEYS AND OTHER TRADES.
- B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.
- D. CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES PRIOR TO ROUGH-IN. ALL NEW INSTALLATIONS SHALL BE COORDINATED WITH EXISTING UTILITY LOCATIONS.
- E. PROVIDE HAND-HOLES AS REQUIRED BY NEC FOR UNDERGROUND FEEDERS SHOWN.
- F. PROVIDE 120V POWER TO ALL ELECTRONIC WATER METERS. SEE PLUMBING AND CIVIL DRAWINGS FOR QUANTITIES AND LOCATIONS.
- G. POLE MOUNTED SITE LIGHTING NOT IN CONTRACT.

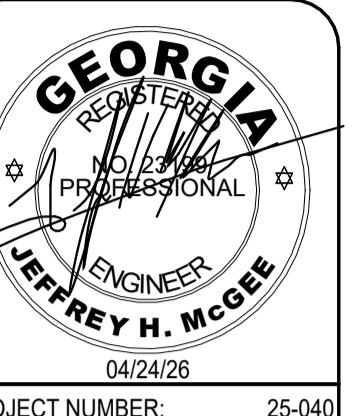
**GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:**

1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS AN OVERHANG, THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE, 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

**NOTE:** THIS INFORMATION HAS BEEN OBTAINED FROM THE NFPA SECTION 450-27 AND THE OFFICE OF INSURANCE AND SAFETY FIRE COMMISSIONER CHAPTER 120-3-3.

1 SITE PLAN - ELECTRICAL  
E-101 SCALE: 1" = 30'-0"





PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**

827 HIGHWAY 81  
 CANTON, GA 30115  
 WALTON COUNTY, GEORGIA

OVERALL FLOOR PLAN - LIGHTING

**E-201**

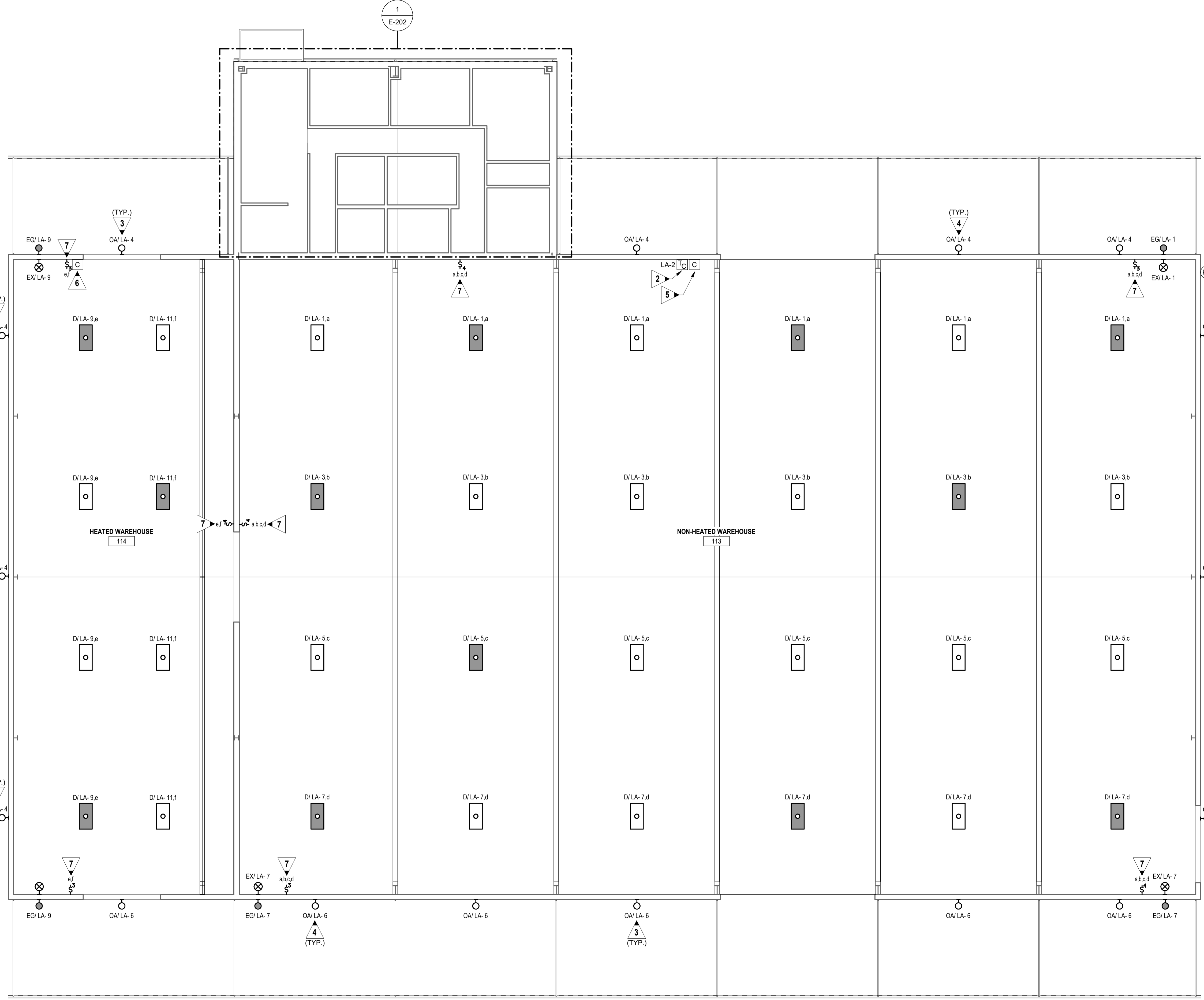
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**GENERAL NOTES:**

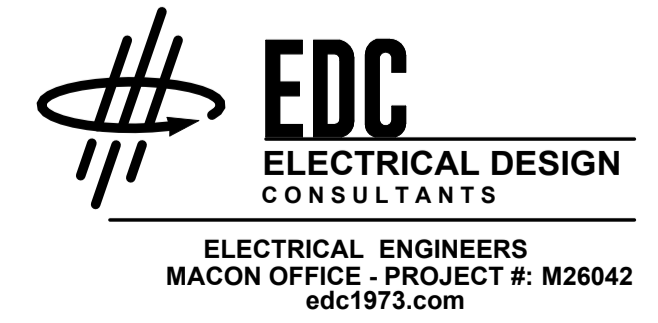
- LOWER CASE LETTERS AT SWITCHES AND LIGHT FIXTURES ON THIS SHEET ARE SHOWN TO CLARIFY THE FIXTURES BEING CONTROLLED BY THE ASSOCIATED SWITCHES.
- THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION, AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.
- PROVIDE UN-SWITCHED "HOT" CONDUCTOR TO EACH EXIT SIGN, EMERGENCY FIXTURE, AND NIGHT LIGHT FIXTURE.
- PROVIDE NEUTRAL CONDUCTOR TO ALL WALL MOUNTED OCCUPANCY SENSORS. IF SENSOR DOES NOT REQUIRE NEUTRAL, CAP NEUTRAL IN BOX.
- CONTRACTOR SHALL PROVIDE CLASS 2, 600 VOLT RATED, 0-10 VOLT CONTROL WIRING FOR ALL L.E.D. FIXTURES WHERE CONTROLLED BY LOW-VOLTAGE CONTROLLERS OR WALL BOX DIMMERS.
- FOR ALL CONDUIT INSTALLATIONS, CONTRACTOR SHALL PULL #18 AWG TPN SOLID COPPER CONTROL WIRING IN SAME CONDUIT AS LINE-VOLTAGE CONDUCTORS SHALL BE PURPLE AND GRAY. FIXTURE WHIPS SHALL BE PROVIDED WITH CONTROL WIRING INSTALLED IN WHIPS TO MATCH INSTALLATION. FIXTURE WHIPS SHALL NOT EXCEED 6'-0" IN LENGTH. NO EXCEPTIONS.
- THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.
- CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.
- ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING). JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12'-0 IN.
- EXIT SIGN MOUNTING IS TO BE WITH BOTTOM OF FIXTURE A MAXIMUM OF 48" ABOVE INDICATING DOOR OR PATH.

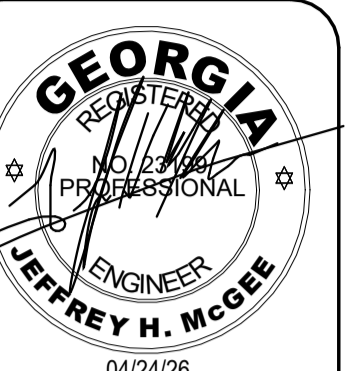
**KEYED NOTES:**

- LOCATE P.E. CELL FACING NORTH. CLEAR OF MAN MADE LIGHT SOURCES. J-BOX TO HOUSE P.E. CELL SHALL BE RECESSED MOUNTED WITH STAINLESS STEEL COVER.
- PROVIDE 365 DAY DIGITAL PROGRAMMABLE TYPE ELECTRONIC CONTROL TIME CLOCK WITH MINIMUM 8 CONTACTS AND MINIMUM 96 ON/OFF EVENTS PER WEEK. CONTACTS RATED FOR MINIMUM 30 AMPS AND 120 VOLTS. PROVIDE WITH NEMA TYPE 1 ENCLOSURE AND CAPACITOR BACKUP. PROVIDE WITH AUTO-ON-OFF FUNCTION. PROVIDE AUXILIARY INPUT FROM PHOTO CELL FOR OVERRIDE ON OR OFF CONTROL.
- ROUTE VIA 8 POLE EXTERIOR LIGHTING CONTACTOR/TIME CLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIME CLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 2. USE #10'S ENTIRE CIRCUIT UNLESS OTHERWISE NOTED. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
- COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 4-POLE ELECTRICALLY HELD INTERIOR LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE. CONTACTOR SHALL HAVE 120 VOLT COIL AND 20 AMP, 120V CONTACTS. CONTACTOR SHALL CONTROL SWITCH INDICATIONS "a, b, c, d". CONTACTOR SHALL BE CONTROLLED BY 3-WAY AND 4-WAY SWITCHES. SEE KEYED NOTE 7.
- 2-POLE ELECTRICALLY HELD INTERIOR LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE. CONTACTOR SHALL HAVE 120 VOLT COIL AND 20 AMP, 120V CONTACTS. CONTACTOR SHALL CONTROL SWITCH INDICATIONS "e, f". CONTACTOR SHALL BE CONTROLLED BY 3-WAY AND 4-WAY SWITCHES. SEE KEYED NOTE 7.
- PROVIDE 3-WAY AND 4-WAY SWITCHES IN WEATHERPROOF ENCLOSURES TO CONTROL COIL OF INTERIOR LIGHTING CONTACTOR.



**1 OVERALL FLOOR PLAN - LIGHTING**  
 E-201 SCALE: 1/8" = 1'-0"





PROJECT NUMBER: 25-040

ISSUE:

REVISIONS NO. DATE:

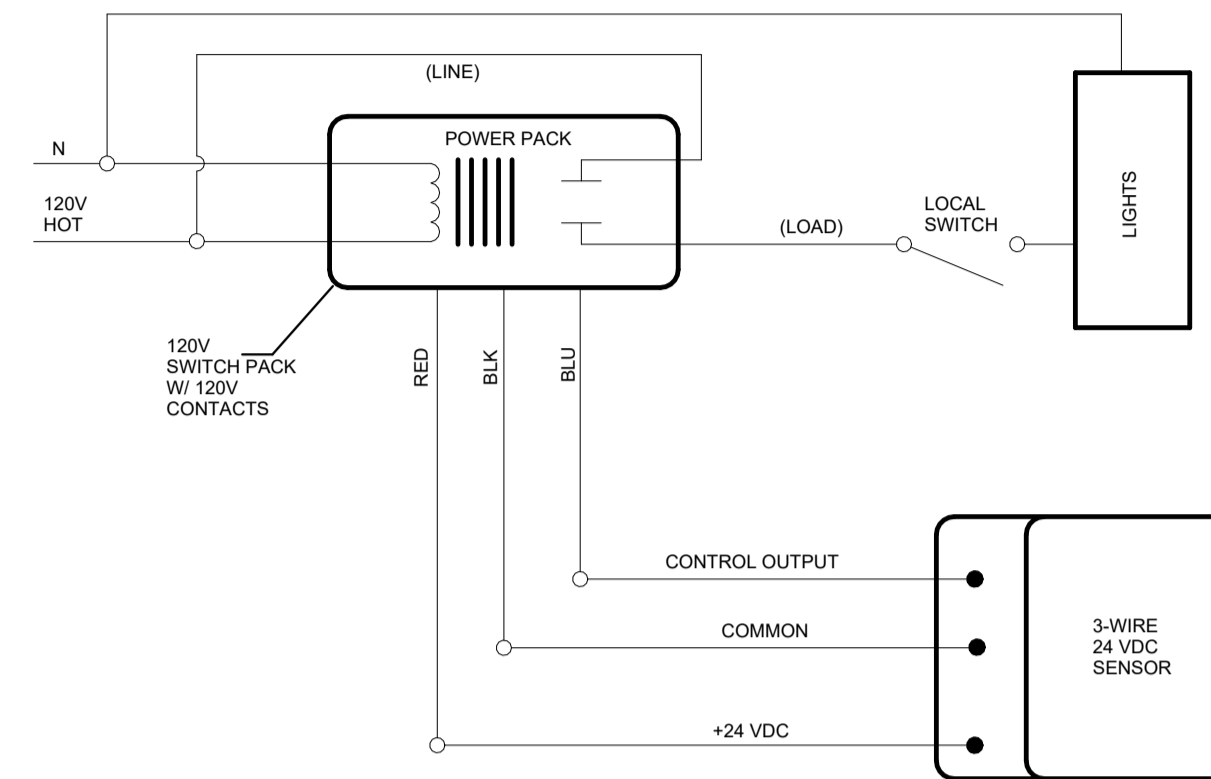
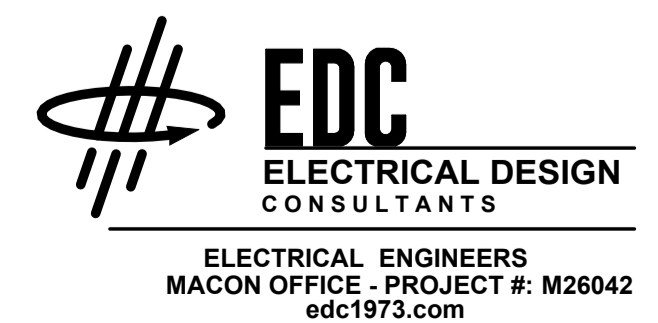
DRYWALL WAREHOUSE HWY 81

827 HIGHWAY 81 CANTON, GA 30104 WALTON COUNTY, GEORGIA

OFFICE FLOOR PLAN - LIGHTING

E-202

ISSUED FOR CONSTRUCTION



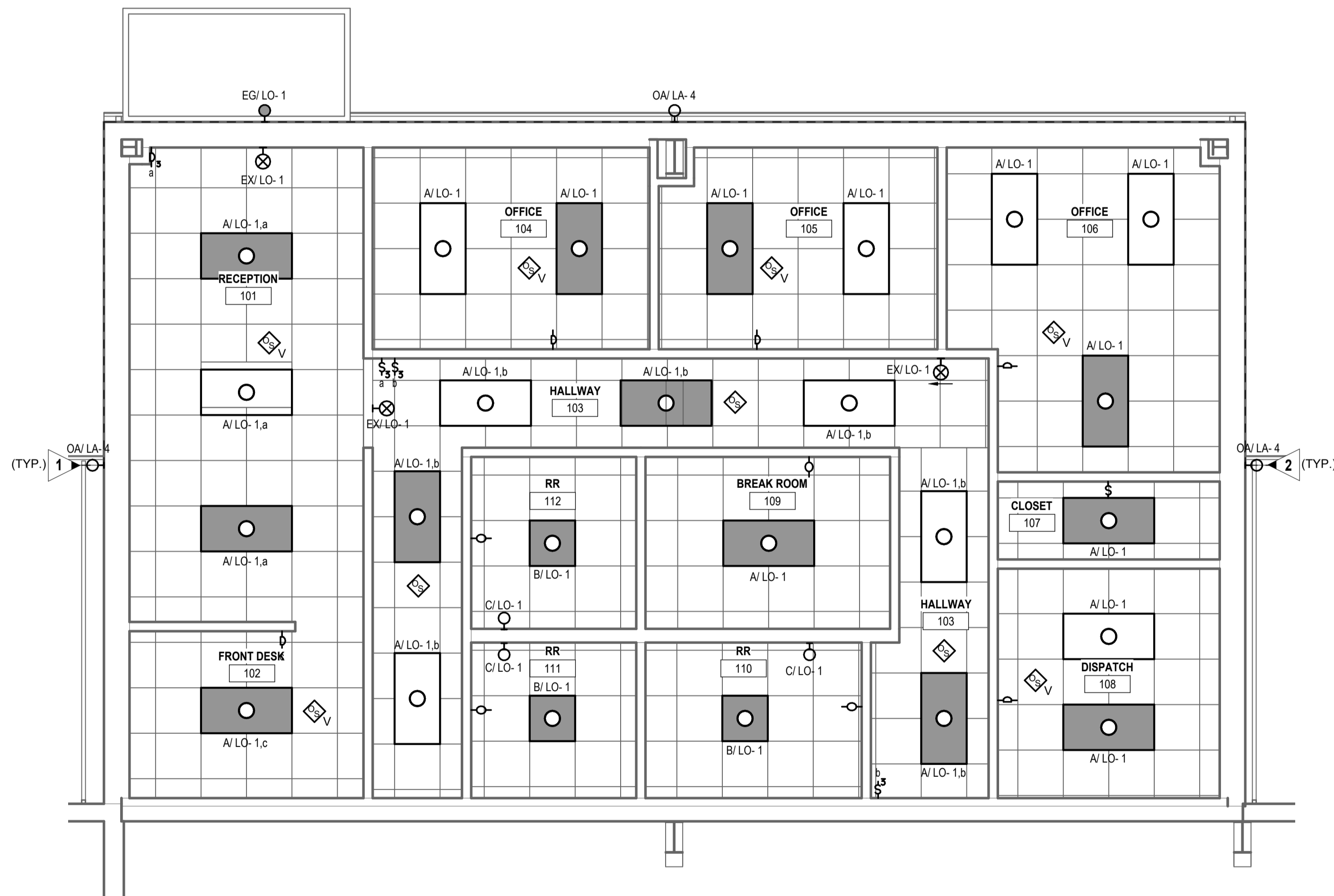
2 WIRING DIAGRAM - SENSOR CONTROL - LIGHTING E-202 NO SCALE

KEYED NOTES:

- 1. ROUTE VIA 8 POLE EXTERIOR LIGHTING CONTACTOR/TIME CLOCK LOCATED ADJACENT PANELS. PHOTO CELL SHALL CONTROL DUSK TILL DAWN OPERATION. TIME CLOCK SHALL INTERRUPT CIRCUIT DURING MIDNIGHT HOURS. SEE KEYED NOTE 2 ON SHEET E-201. USE #10'S ENTIRE CIRCUIT UNLESS OTHERWISE NOTED. PROVIDE MANUAL OVERRIDE SWITCH. COORDINATE FINAL LOCATION WITH OWNER.
- 2. COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

GENERAL NOTES:

- 1. LOWER CASE LETTERS AT SWITCHES AND LIGHT FIXTURES ON THIS SHEET ARE SHOWN TO CLARIFY THE FIXTURES BEING CONTROLLED BY THE ASSOCIATED SWITCHES.
- 2. THIS PLAN INDICATES AREAS TO BE CONTROLLED BY MOTION SENSORS. SINCE COVERAGES AND DEVICES VARY BETWEEN MANUFACTURERS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE PROPER DEVICE LOCATION, ORIENTATION, AND QUANTITIES WITH THE MANUFACTURER OF THE SYSTEM BEING INSTALLED TO MEET THE SPECIFIED CRITERIA.
- 3. PROVIDE UN-SWITCHED "HOT" CONDUCTOR TO EACH EXIT SIGN, EMERGENCY FIXTURE, AND NIGHT LIGHT FIXTURE.
- 4. PROVIDE NEUTRAL CONDUCTOR TO ALL WALL MOUNTED OCCUPANCY SENSORS. IF SENSOR DOES NOT REQUIRE NEUTRAL, CAP NEUTRAL IN BOX.
- 5. CONTRACTOR SHALL PROVIDE CLASS 2, 600 VOLT RATED, 0-10 VOLT CONTROL WIRING FOR ALL L.E.D. FIXTURES WHERE CONTROLLED BY LOW-VOLTAGE CONTROLLERS OR WALL BOX DIMMERS.
- 6. FOR ALL CONDUIT INSTALLATIONS, CONTRACTOR SHALL PULL #18 AWG TFN SOLID COPPER CONTROL WIRING IN SAME CONDUIT AS LINE-VOLTAGE CONDUCTORS SHALL BE PURPLE AND GRAY. FIXTURE WHIPS SHALL BE PROVIDED WITH CONTROL WIRING INSTALLED IN WHIPS TO MATCH INSTALLATION. FIXTURE WHIPS SHALL NOT EXCEED 6'-0" IN LENGTH. NO EXCEPTIONS.
- 7. THERE ARE NO SWITCHPACKS SHOWN ON THIS PLAN. PROVIDE SWITCHPACKS AS REQUIRED WITH SENSORS. SWITCHPACKS ARE TO BE RATED AT 20A. PROVIDE ONE SWITCHPACK PER 20A LIGHTING CIRCUIT OR PER INDIVIDUAL AREA BEING CONTROLLED.
- 8. CEILING SENSORS ARE TO BE MOUNTED AWAY FROM ANY STRONG AIRFLOW. COORDINATE LOCATION OF SENSOR WITH MECHANICAL AND LIGHTING PLANS.
- 9. ALL SENSORS SHALL BE CEILING MOUNTED EXCEPT WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. PROVIDE SENSOR WITH ADAPTOR PLATE FOR JUNCTION BOX MOUNTING (JUNCTION BOX SHALL BE CONCEALED ABOVE ACCESSIBLE CEILING) JUNCTION BOX SHALL BE SUPPORTED FROM STRUCTURE UTILIZING A 3/8 IN. THREADED ROD. WHERE CEILING HEIGHTS EXCEED 15 FT.-0 IN. WALL MOUNT SENSORS AT 12'-0 IN.
- 10. EXIT SIGN MOUNTING IS TO BE WITH BOTTOM OF FIXTURE A MAXIMUM OF 48" ABOVE INDICATING DOOR OR PATH.



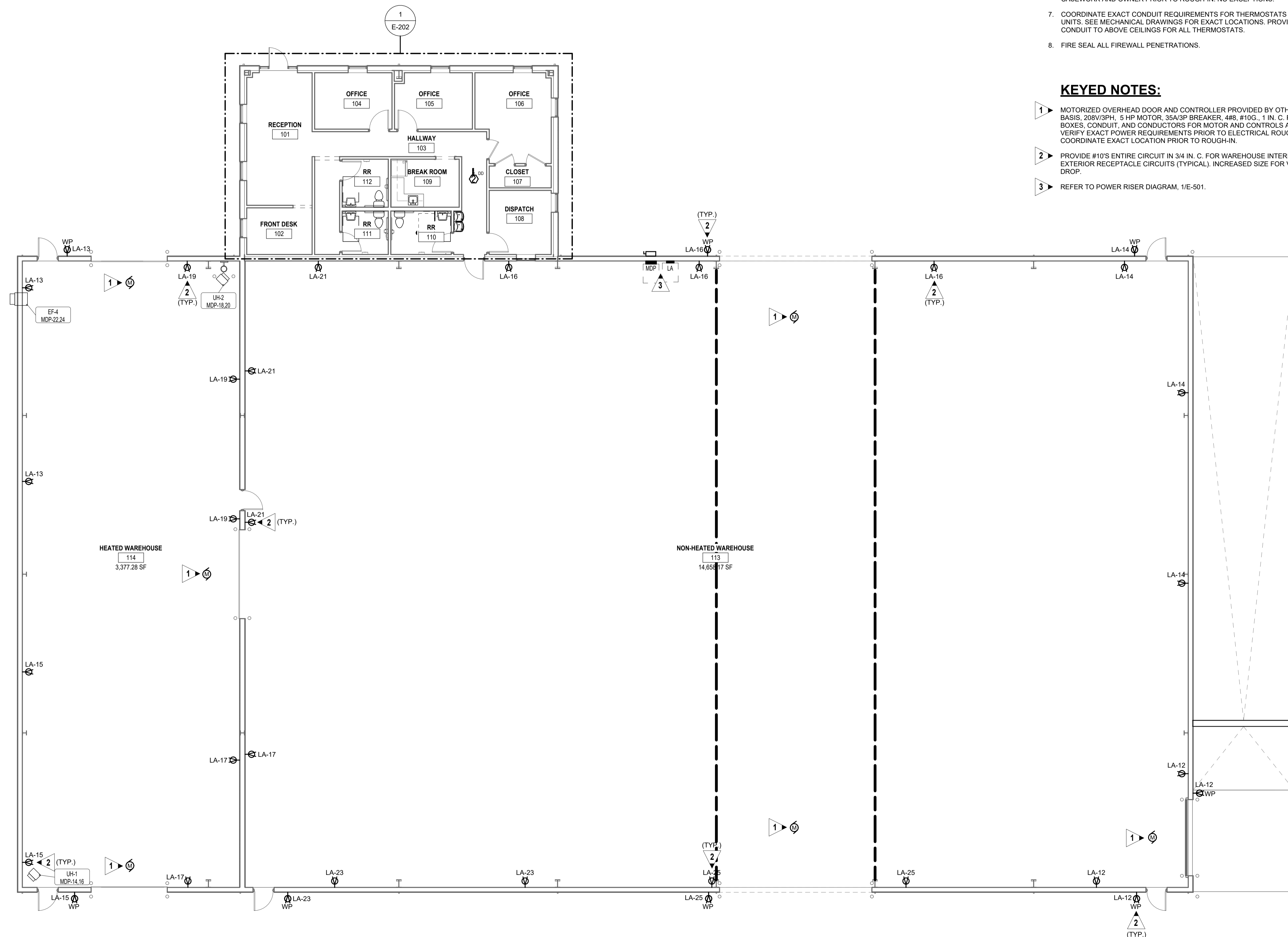
1 OFFICE FLOOR PLAN - LIGHTING E-202 SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**

1. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH IN
2. ROUTE 1" C FROM ALL MILLWORK/FLOOR BOXES WHERE DATA DROPS ARE SHOWN TO ABOVE NEAREST ACCESSIBLE CEILING TO SERVE DATA CABLING.
3. CONDUIT RUNS ARE SHOWN ON THESE TYPICAL PLANS AS UNDERGROUND ROUGH-IN.
4. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
5. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
6. COORDINATE FINAL RECEPTACLE AND VOICE/DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN. NO EXCEPTIONS.
7. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS. PROVIDE OUTLET BOXES AND CONDUIT TO ABOVE CEILINGS FOR ALL THERMOSTATS.
8. FIRE SEAL ALL FIREWALL PENETRATIONS.

**KEYED NOTES:**

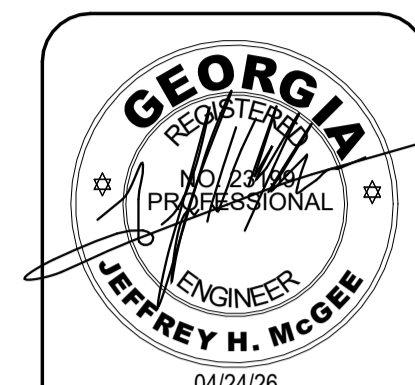
1. MOTORIZED OVERHEAD DOOR AND CONTROLLER PROVIDED BY OTHERS. DESIGN BASIS, 208V/3PH, 5 HP MOTOR, 35A/3P BREAKER, 4#8, #10G., 1 IN. C. PROVIDE BOXES, CONDUIT, AND CONDUCTORS FOR MOTOR AND CONTROLS AS REQUIRED. VERIFY EXACT POWER REQUIREMENTS PRIOR TO ELECTRICAL ROUGH-IN. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
2. PROVIDE #10'S ENTIRE CIRCUIT IN 3/4 IN. C. FOR WAREHOUSE INTERIOR AND EXTERIOR RECEPTACLE CIRCUITS (TYPICAL). INCREASED SIZE FOR VOLTAGE DROP.
3. REFER TO POWER RISER DIAGRAM, 1/E-501.



**1** OVERALL FLOOR PLAN - POWER & TELE/DATA  
 E-301 SCALE: 1/8" = 1'-0"

**EDC**  
 ELECTRICAL DESIGN  
 CONSULTANTS

ELECTRICAL ENGINEERS  
 MACON OFFICE - PROJECT #: M26042  
 edc1973.com



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**

827 HIGHWAY 81  
 CANTON, GA 30115  
 WALTON COUNTY, GEORGIA

OVERALL FLOOR PLAN - POWER & TELE/DATA

E-301  
ISSUED FOR CONSTRUCTION

MECHANICAL CONNECTION SCHEDULE table with columns: ID, EQUIPMENT INFORMATION, CIRCUIT INFORMATION, CONDUIT & WIRE SIZE, DISC TYPE, NOTES. Includes rows for AIR HANDLERS, ELECTRIC HEATERS, EXHAUST FANS, HEAT PUMPS, WATER HEATERS.

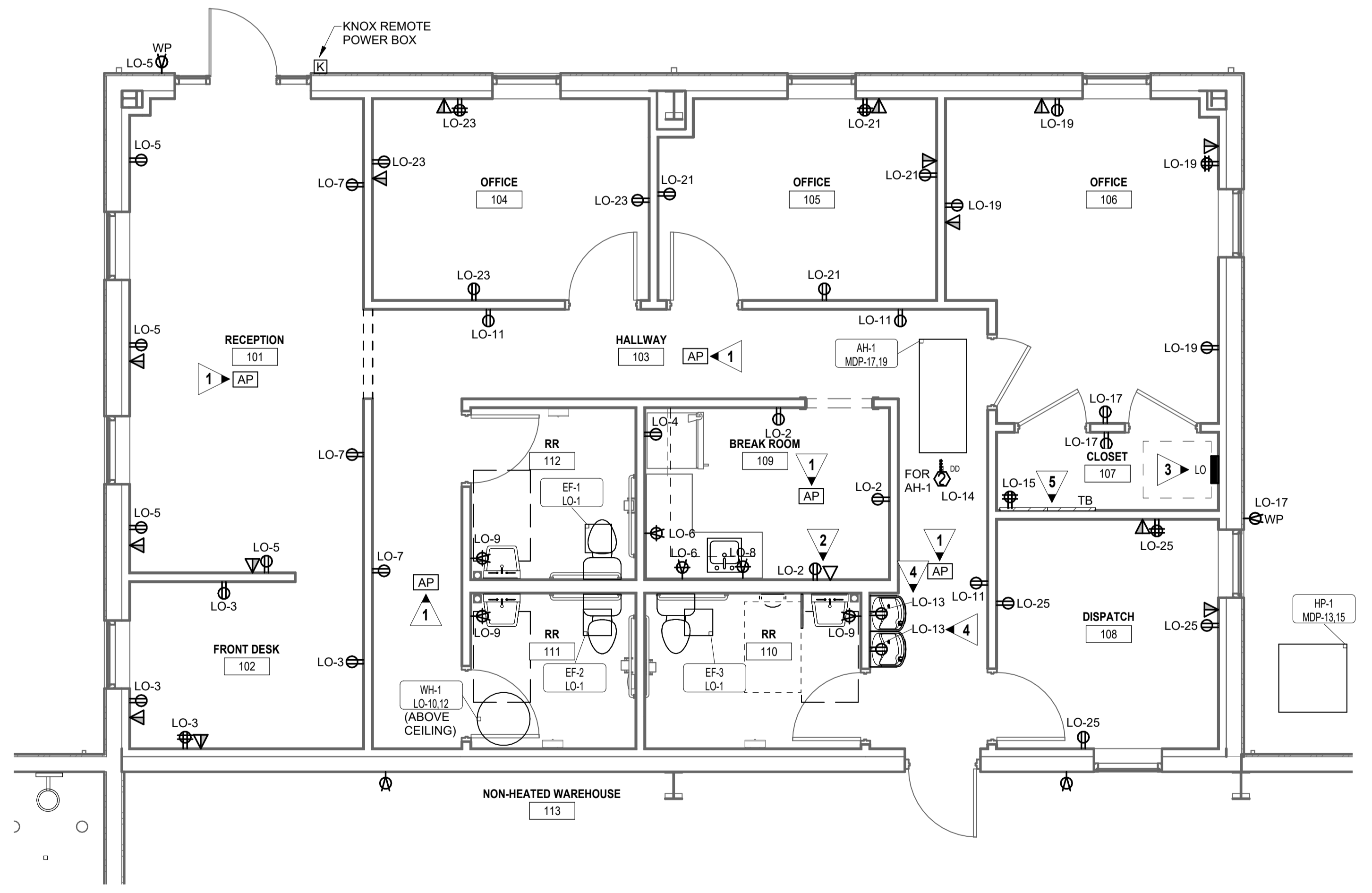
- MECHANICAL/PLUMBING SCHEDULE NOTES: 1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS. 2. PROVIDE 120V STAND-ALONE DUCT SMOKE DETECTOR LOCATED IN SUPPLY AIR DUCT. UNIT SHALL COME COMPLETE WITH SAMPLING TUBE AND REMOTE TEST/RESET STATION LOCATED IN MECH/ELEC ROOM IN ACCESSIBLE LOCATION. DETECTOR SHALL SHUT DOWN UNIT UPON ACTIVATION.

GENERAL NOTES:

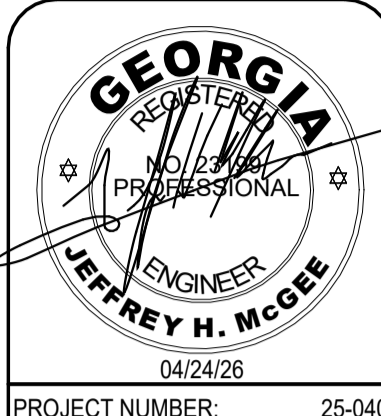
- 1. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH IN. 2. ROUTE 1" C FROM ALL MILLWORK/FLOOR BOXES WHERE DATA DROPS ARE SHOWN TO ABOVE NEAREST ACCESSIBLE CEILING TO SERVE DATA CABLING.

KEYED NOTES:

- 1. CEILING MOUNTED BISCUIT STYLE DATA OUTLET BY OTHERS FOR WIRELESS ACCESS POINT. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO BOX AND CONDUIT ROUGH-IN. 2. MOUNT RECEPTACLE AND DATA OUTLET HIGH ON WALL FOR TV. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.



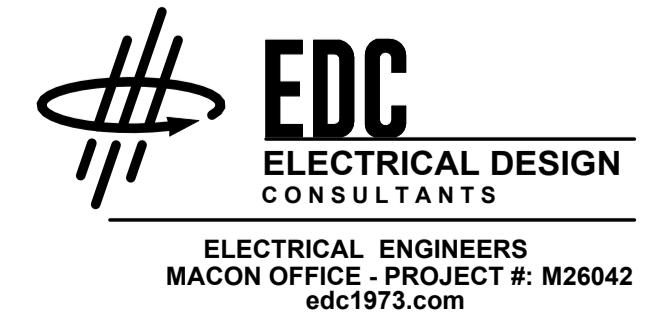
1 OFFICE FLOOR PLAN - POWER & TELE/DATA E-302 SCALE: 1/4" = 1'-0"

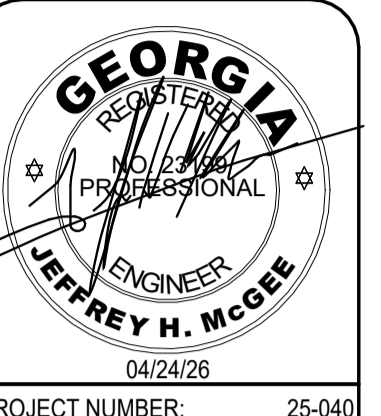


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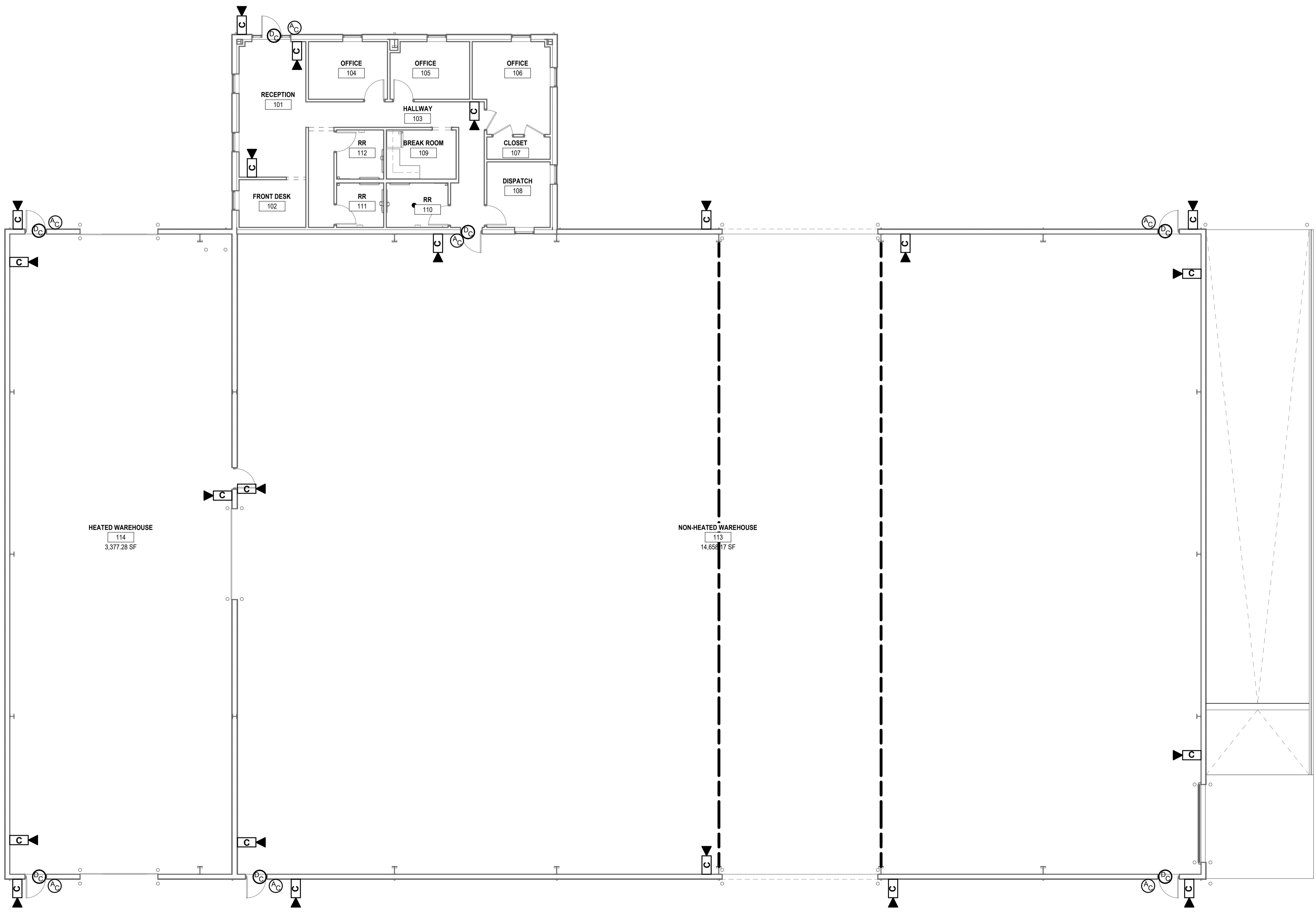
DRYWALL WAREHOUSE HWY 81 857 HIGHWAY 81 CANTON, GA 30104 WALTON COUNTY, GEORGIA

OFFICE FLOOR PLAN - POWER & TELE/DATA E-302 ISSUED FOR CONSTRUCTION

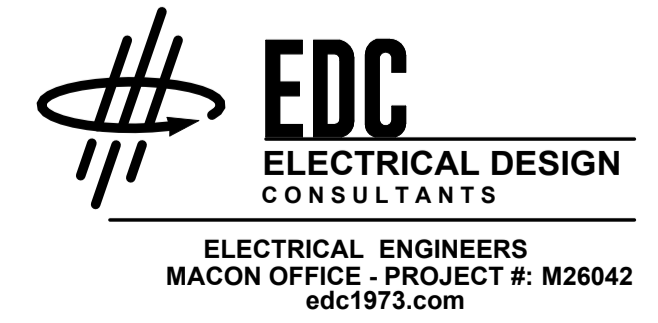




PROJECT NUMBER: 25-040



**1 OVERALL FLOOR PLAN - LOW VOLTAGE**  
 E-401 SCALE: 1/8" = 1'-0"



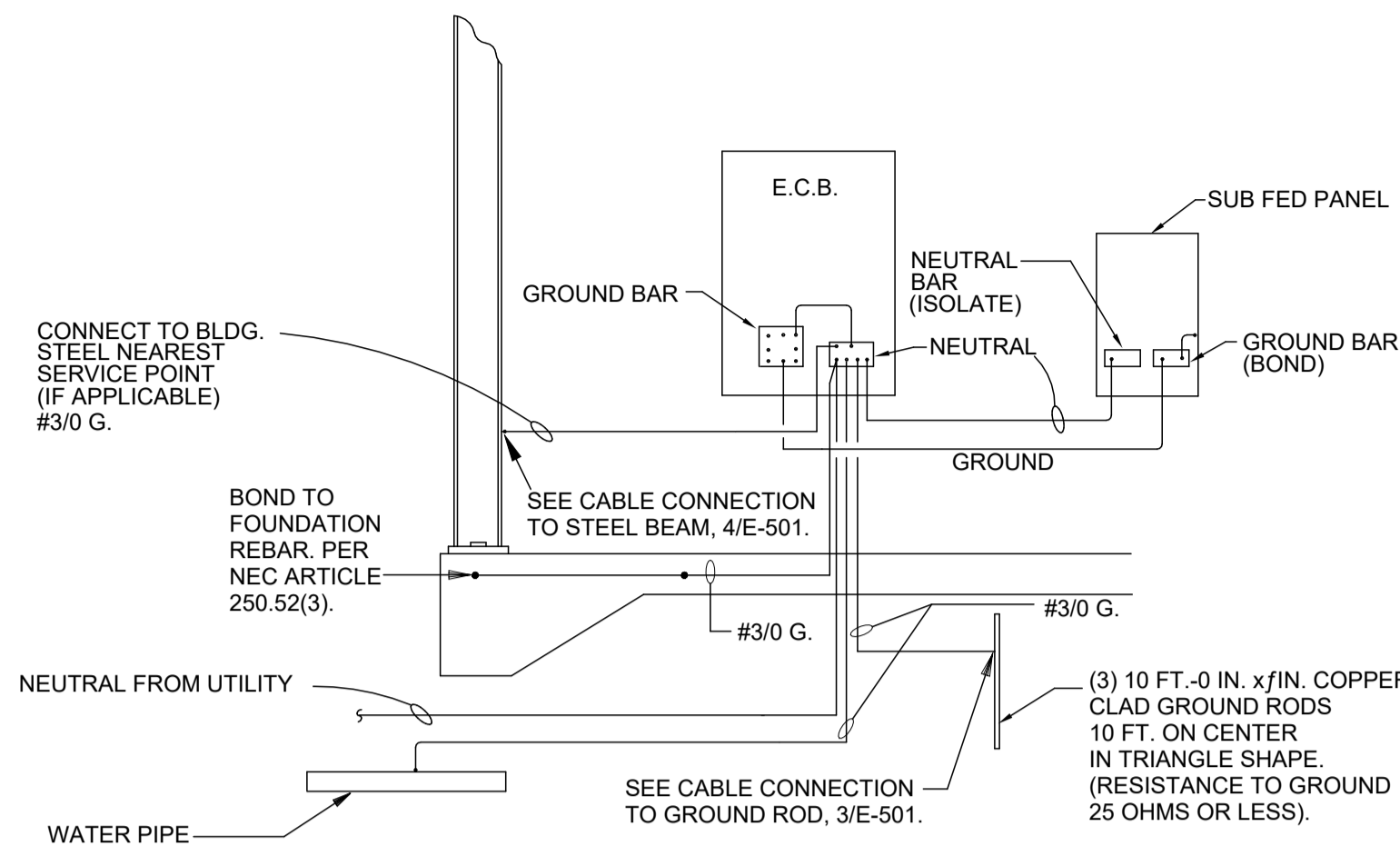
REVISIONS NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**  
 827 HIGHWAY 81  
 CANTON, GA 30115  
 WALTON COUNTY, GEORGIA

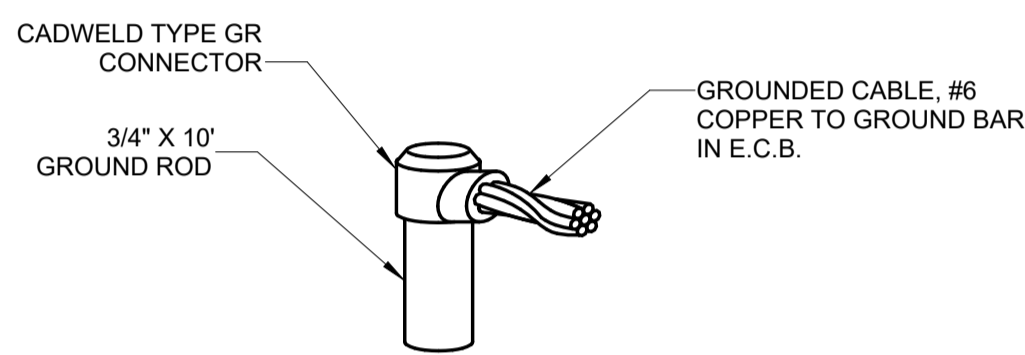
OVERALL FLOOR PLAN - LOW VOLTAGE

**E-401**

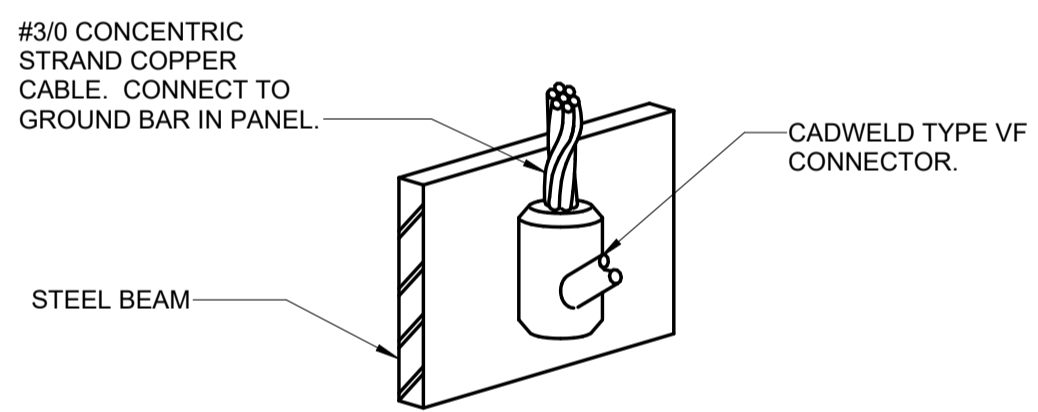
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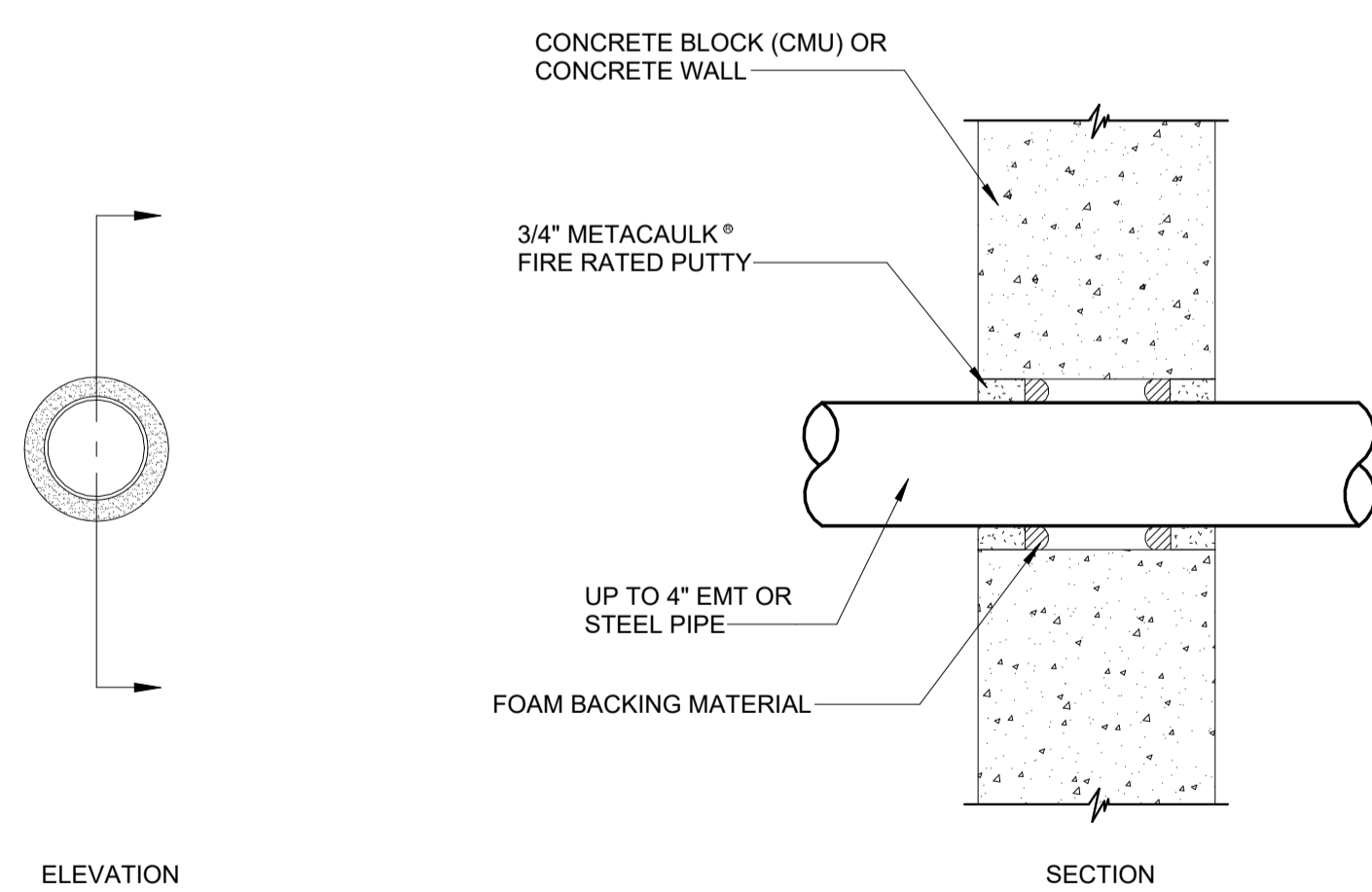
**2 SERVICE GROUNDING DETAIL**  
E-501 NO SCALE



**3 DETAIL - CABLE CONNECTION TO GROUND ROD**  
E-501 NO SCALE

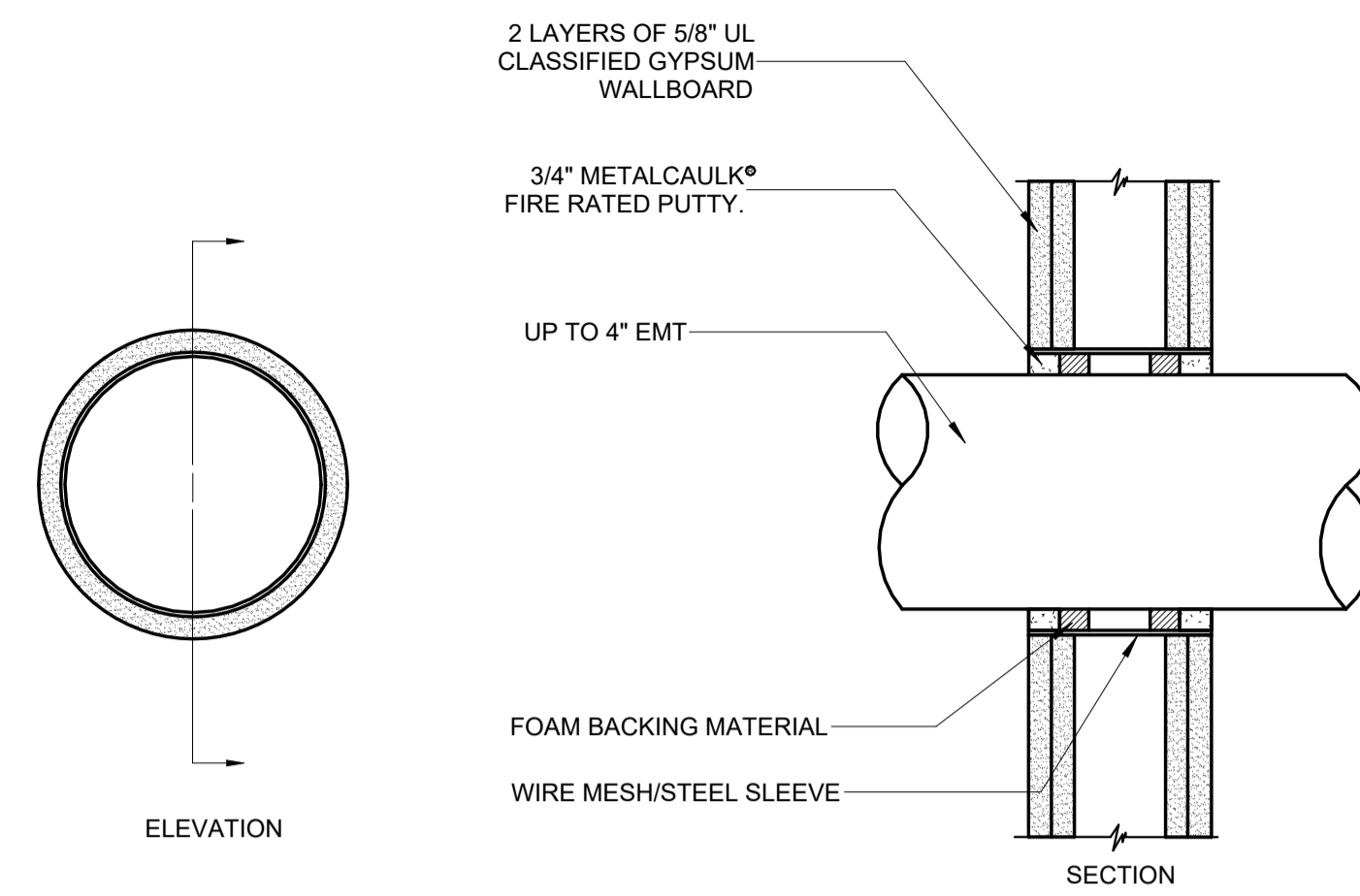


**4 DETAIL - CABLE CONNECTION TO STEEL BEAM**  
E-501 NO SCALE



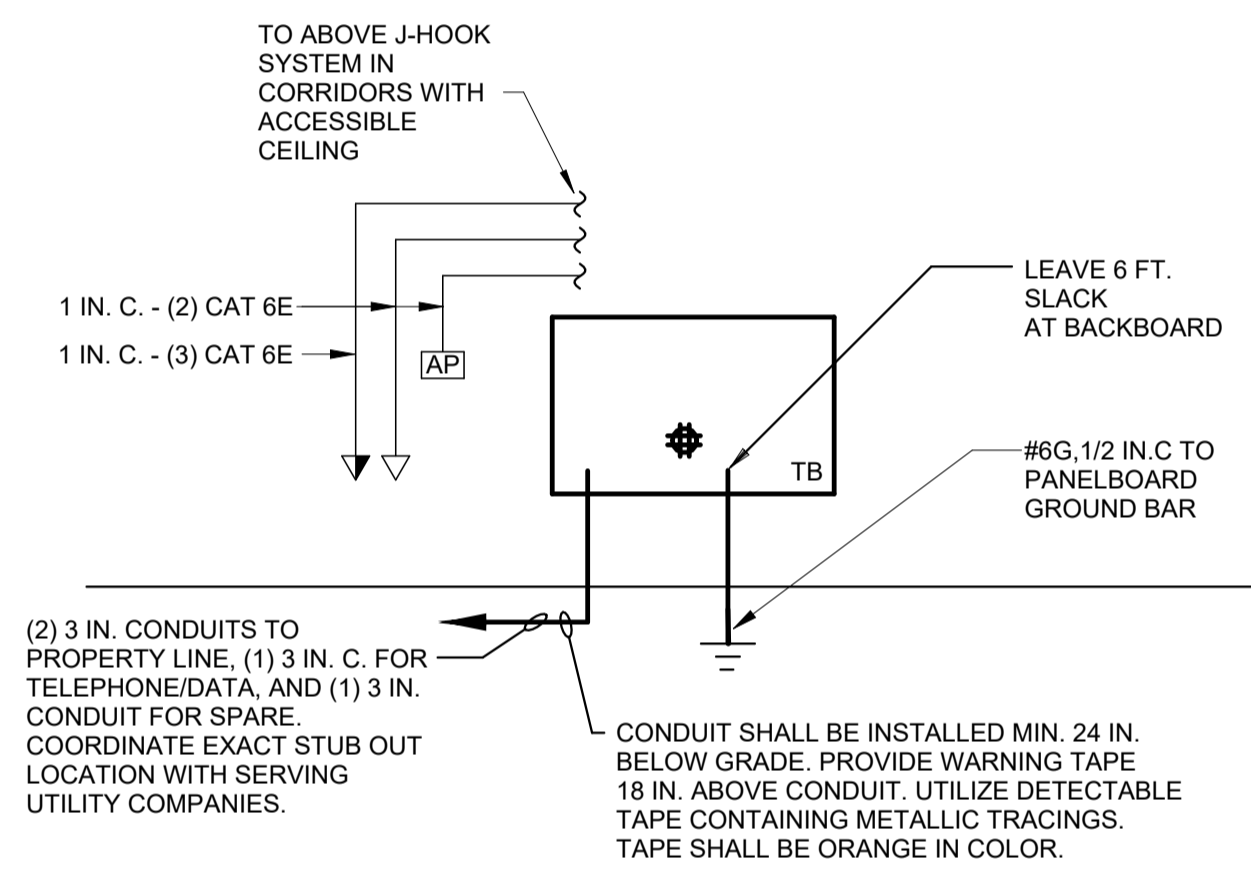
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

**5 DETAIL - CONCRETE WALL PENETRATION**  
E-501 NO SCALE

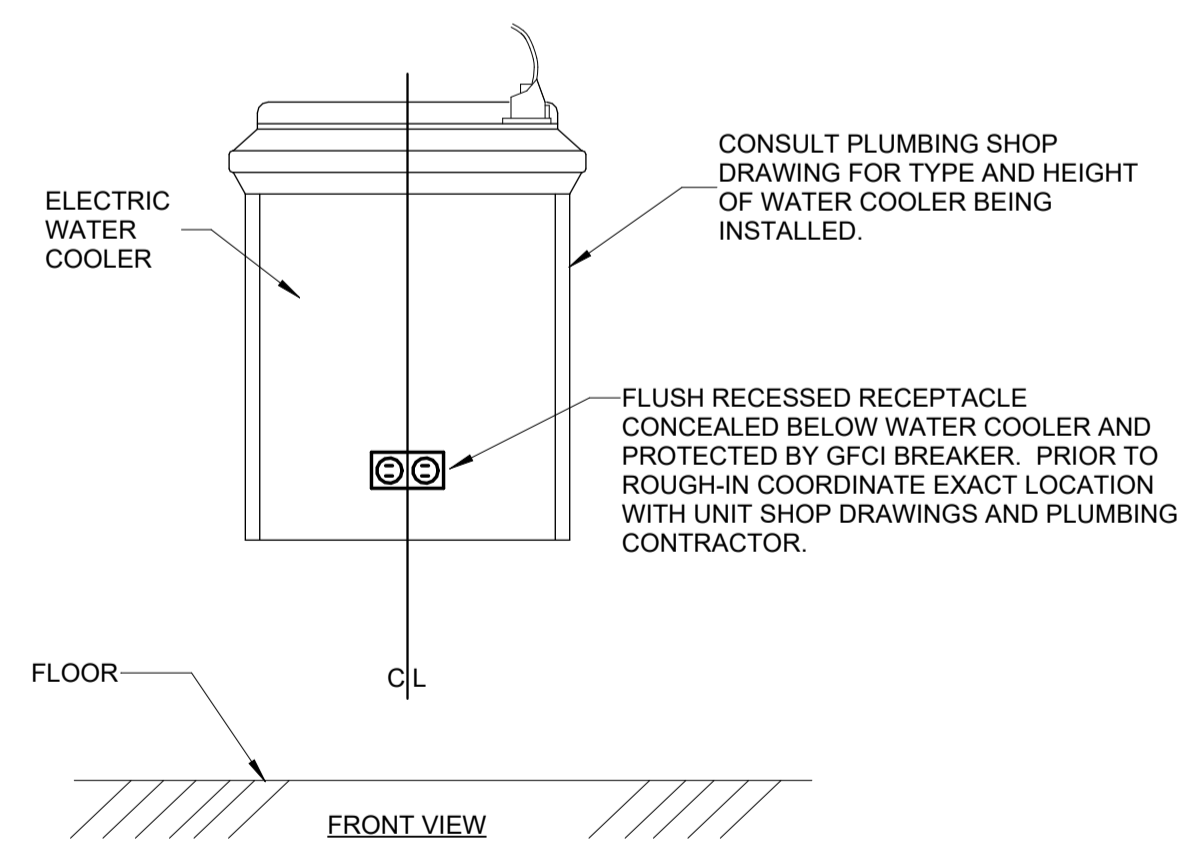


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

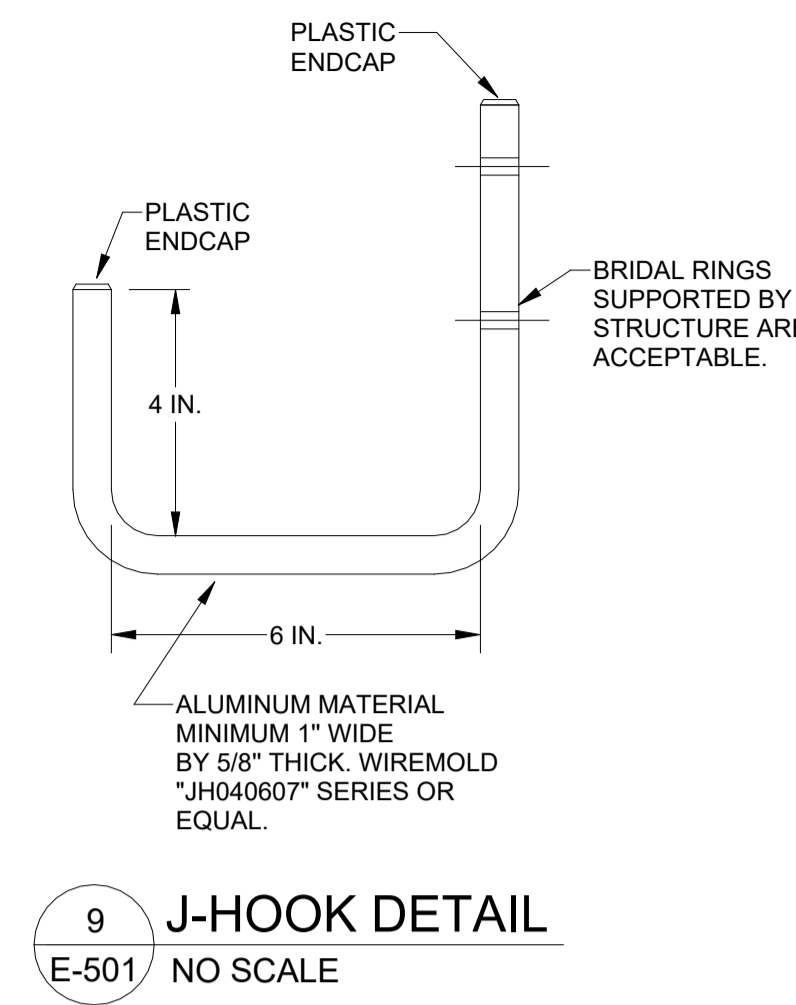
**6 DETAIL - GYPSUM WALLBOARD PENETRATION**  
E-501 NO SCALE



**7 TELEPHONE/DATA RISER**  
E-501 NO SCALE



**8 RECEPTACLE LOCATION @ WATER COOLER**  
E-501 NO SCALE



**9 J-HOOK DETAIL**  
E-501 NO SCALE

**GENERAL NOTES: (DATA CABLING)**

- ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
- ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE:  

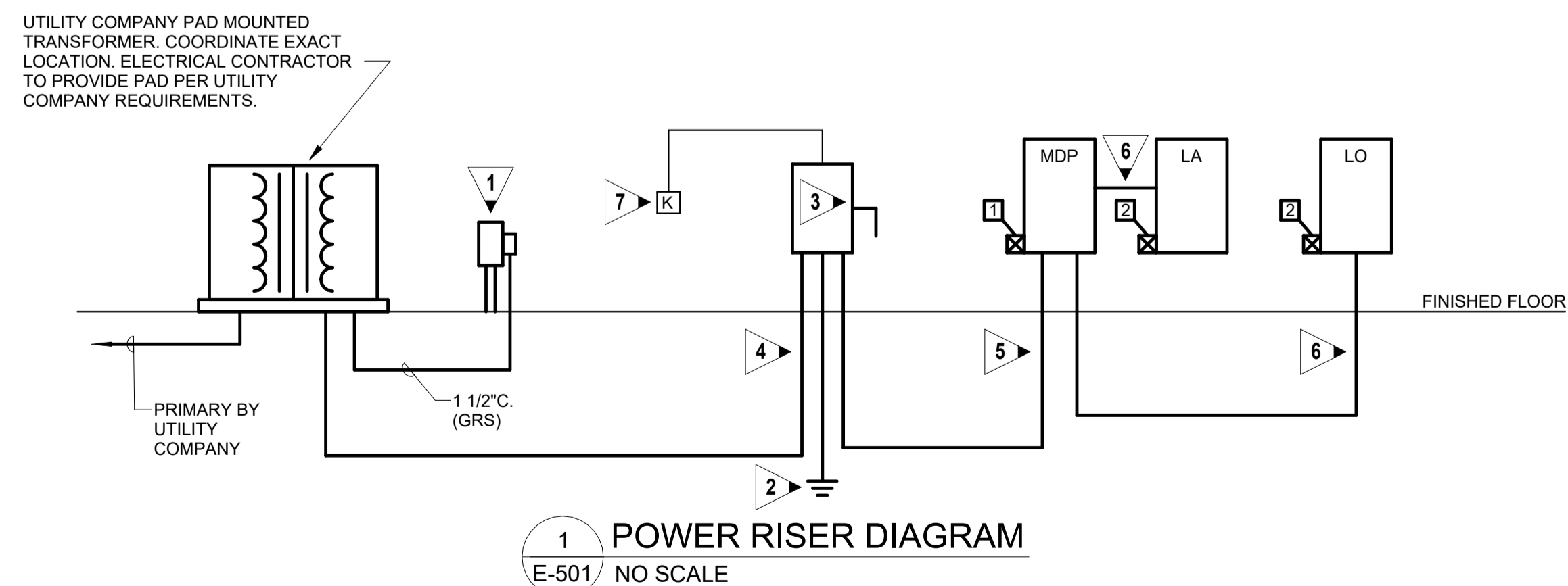
D	M	XXX	JACK NUMBER
MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.			
D	OR	V	INDICATING VOICE OR DATA OUTLET.
- PROVIDE METAL D-RING OR RING RUNS AS NECESSARY TO PROPERLY LACE AND SUPPORT ALL CABLING AT BACKBOARDS.
- REFER TO 1/8 IN. PLANS SHOWING OUTLET LOCATIONS, PANEL LOCATIONS, CEILING TYPES, ETC.
- GROUND ALL RACKS WITH #6 COPPER LOCATED AT EACH BACKBOARD. CONTRACTOR SHALL ROUTE #6G, 3/4 IN. C. TO GROUND PLATE. PROVIDE 12 IN. CABLE RUNWAY SPANNING FROM TOP OF RACK TO WALL AND TURNED UP TO ABOVE DROP TILE CEILING IN ORDER TO ROUTE CABLE TO RACK. AT EACH RACK LOCATION, PROVIDE A 3/4 IN. x 4 FT. x 8 FT. BACKBOARD PAINTED WITH TWO COATS OF BLACK FIRE RETARDANT PAINT.
- TY-WRAPS SHALL NOT BE CINCHED DOWN TIGHT ENOUGH TO DEFORM CABLES. MAINTAIN MINIMUM BEND RADIUS ON FIBER, TIE CABLES, STATION WIRES, AND PATCH CORDS.
- REFER TO SPECIFICATIONS FOR CABLING. ALL CABLING SHALL BE PLENUM RATED.
- PROVIDE VELCRO CABLE WRAPS AT RACKS TO PROPERLY LACE AND TRAIN PATCH CORDS AT RACKS IN AN ORDERLY FASHION.
- FIELD VERIFY MOUNTING SPACE IN DATA RACK ROOM. PROVIDE WALL MOUNTED RACKS WHERE NECESSARY.
- CABLING FOR COMPUTER DATA SHALL BE ROUTED VIA J-HOOK SYSTEM. PROVIDE CONDUIT TO 6 IN. ABOVE ACCESSIBLE CEILING. BUNDLE CABLES, SLEEVE THROUGH CORRIDOR WALL USING 4 IN. C.
- NETWORK HUBS AND ELECTRONICS, RACK MOUNTED UPS, PATCH CORDS, AND FIBER OPTIC PATCH CORDS ARE NOT IN CONTRACT.
- REFER TO POWER SHEET, E-302, FOR ADDITIONAL INFORMATION.
- SEE WIRE MANAGEMENT NOTES.

**WIRE MANAGEMENT NOTES**

- NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FULL J-HOOK SYSTEM IN THE CORRIDORS WITH ACCESSIBLE CEILINGS FOR LOW VOLTAGE CABLING.
  - ALL J-HOOKS SHALL BE SPACED NO MORE THAN 48 INCHES APART AND NO MORE THAN 12 INCHES FROM THE CORNER OF ANY SPACE.
  - PROVIDE J-HOOKS NO MORE THAN 12 INCHES AWAY FROM CONDUIT SLEEVES.
  - WHERE J-HOOKS ARE (2) ROWS: SPACING BETWEEN THE ROWS SHALL BE 12 INCHES.
  - CONDUIT SLEEVES SHALL BE AT THE SAME LEVEL AS THE ROWS OF J-HOOKS.
  - FIRE SEAL AROUND ALL CONDUIT SLEEVES AS SHOWN IN DETAILS ON SHEET E7.1. SEE ARCHITECTURAL SHEET FOR REQUIRED RATINGS.
  - COORDINATE THE EXACT LEVEL OF J-HOOKS AND CONDUIT SLEEVES WITH OTHER TRADES PRIOR TO ROUGHING.
  - J-HOOKS SHALL NOT BE SUPPORTED BY GYPSUM WALL BOARD. J-HOOKS SHALL BE SUPPORTED BY BLOCK WALL OR STUD. SEE ARCHITECTURAL PLAN FOR WALL MATERIALS.
  - ALL CABLING SHALL BE NEATLY BUNDLED UTILIZING "NOT A CINCH" TYPE RATED VELCRO TIE WRAPS.
  - J-HOOKS SHALL SUPPORT CABLING FOR: FIRE ALARM, DATA, TELEPHONE, CAMERA, AND ACCESS CONTROL.
  - ONE ROW SHALL SUPPORT SECURITY CABLING. ONE ROW SHALL SUPPORT DATA/TELEPHONE CABLING. ONE ROW SHALL SUPPORT FIRE ALARM SYSTEM.
  - SEE DETAIL 5/E-501 - CONCRETE WALL PENETRATION
  - SEE DETAIL 6/E-501 - GYPSUM WALLBOARD PENETRATION.
  - WHERE J-HOOKS ARE SHOWN ABOVE SOLID SOFFITS MORE THAN TWO FEET WIDE. PROVIDE J-HOOKS HUNG FROM STRUCTURE (4 HOOKS PRE 3/8 IN THREADED ROD).

**KEYED NOTES:**

- METER BASE SUPPLIED BY POWER COMPANY AND INSTALLED BY CONTRACTOR. CONTRACTOR TO PAY ALL FEES ASSOCIATED WITH THE METER.
- SEE SERVICE GROUNDING DETAIL, 2/E-501.
- PROVIDE LABEL "SERVICE DISCONNECT". PROVIDE 600A/2P/3R S.E. RATED ENCLOSED SHUNT TRIP TYPE CIRCUIT BREAKER, 35.0 KAIC MINIMUM.
- 2 SETS: 3#350MCM, 3 IN. C.
- 2 SETS: 3#350MCM, #3/0G., 3 IN. C.
- 3#4/0, #2G., 2 1/2 IN. C.
- SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX. PRODUCT NUM. "MKT-KBSPEC-0169". CONNECT TO 600A, 240/120V, 1PH ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP TO REMOTELY DISCONNECT POWER.

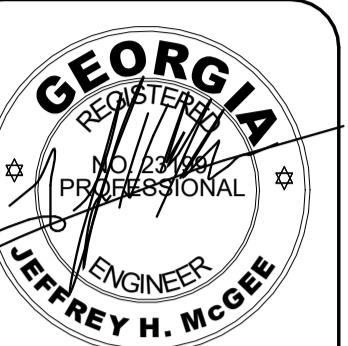


**1 POWER RISER DIAGRAM**  
E-501 NO SCALE

**T.V.S.S.**

- MAIN SERVICE PANEL. PROVIDE 4#6 CONDUCTORS IN 1 IN. C. FROM 60A/2P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER, IN U.L. LISTED 1449 LISTED, 200,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.
- SERVICE PANELS. PROVIDE 4#6 CONDUCTORS IN 1 IN. C. FROM 60A/2P BREAKER IN SUPPLYING PANEL. PROVIDE BREAKER, IN U.L. LISTED 1449 LISTED, 100,000 SURGE CURRENT RATING, EATON EXTERNALLY MOUNTED "SPD" SERIES OR EQUAL.

**EDC**  
ELECTRICAL DESIGN  
CONSULTANTS  
ELECTRICAL ENGINEERS  
MACON OFFICE - PROJECT #: M26042  
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PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE

**DRYWALL WAREHOUSE HWY 81**

827 HIGHWAY 81  
CANTON, GA 30115  
WALTON COUNTY, GEORGIA

ELECTRICAL  
DETAILS

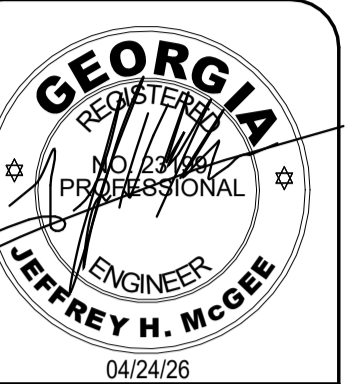
**E-501**

ISSUED FOR  
CONSTRUCTION

PANELBOARD: MDP LOCATION: NON-HEATED... VOLTAGE: 120/240 V, 1 ø 3 W. MOUNTING: SURFACE NEMA 1 A.I.C. RATING: 35,000 AMPS SYMMETRICAL. MAIN DEVICE: 600.0 A MLO SPECIAL: BUS AMPS: 600 AMPS FED FROM: UTILITY

PANELBOARD: LA LOCATION: NON-HEATED... VOLTAGE: 120/240 V, 1 ø 3 W. MOUNTING: SURFACE NEMA 1 A.I.C. RATING: 35,000 AMPS SYMMETRICAL. MAIN DEVICE: 200.0 A MLO SPECIAL: BUS AMPS: 200 AMPS FED FROM: MDP

PANELBOARD: LO LOCATION: CLOSET 107 VOLTAGE: 120/240 V, 1 ø 3 W. MOUNTING: SURFACE NEMA 1 A.I.C. RATING: 25,000 AMPS SYMMETRICAL. MAIN DEVICE: 200.0 A MLO SPECIAL: BUS AMPS: 200 AMPS FED FROM: MDP



PROJECT NUMBER: 25-040

REVISIONS table with columns for NO., DATE, and ISSUE.

COMcheck Software Version 4.1.5.5 Interior Lighting Compliance Certificate. Project Information: Energy Code: 2015 IECC, Project Title: Drywall Warehouse Highway 81, Project Type: New Construction. Construction Site: 257 Highway 81, Oxford, GA 30054. Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201. Credits: 1.0 Required, 1.0 Proposed, 1.0 credit. Allowed Interior Lighting Power table and Proposed Interior Lighting Power table included.

COMcheck Software Version 4.1.5.5 Exterior Lighting Compliance Certificate. Project Information: Energy Code: 2015 IECC, Project Title: Drywall Warehouse Highway 81, Project Type: New Construction, Exterior Lighting Zone: 1 (Developed area on forest land (LZ1)). Construction Site: 257 Highway 81, Oxford, GA 30054. Designer/Contractor: Electrical Design Consultants, 175 New Street, Suite 1, Macon, GA 31201. Allowed Exterior Lighting Power table and Proposed Exterior Lighting Power table included.

DRYWALL WAREHOUSE HWY 81

ELECTRICAL SCHEDULES

E-502 ISSUED FOR CONSTRUCTION

