

CSC 2024.01.007

Y:\Projects\25-040 Drywall Warehouse_Oxford_GA\Arch\00 REVIT\Drywall Warehouse.rvt

8/21/2026 11:01:56 AM

DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE	REV#	COMMENTS
	1	08/18/2026			

DRYWALL WAREHOUSE HWY 81

PROJECT DIRECTORY

OWNER

PABLO ZURITA
80 PADEN ST
COVINGTON, GA 30016
CONTACT:
ANGEL ZURITA
470-334-1855
ZURITAANGEL3@GMAIL.COM

CONTRACTOR

SUNBELT BUILDERS
10641 HWY 36
COVINGTON, HA 30014
CONTACT:
MIKE MCCROREY
404-644-2939
MMCCROREY@SUNBELTBUILDERS.COM

CIVIL

GEORGIA CIVIL
311 N. MAIN ST., STE 101, UNIT C
MADISON, GA 30650
CONTACT:
BRIAN SLATE
706-342-1104 C
BSLATE@GEORGIA CIVIL.COM

ARCHITECT

CSC DESIGN, INC
135 P. RICKMAN INDUSTRIAL DR. SUITE 100
CANTON, GA 30115
CONTACT:
KEVIN WHIPPLE, RA
770-345-2579
KWHIPPLE@CSCDE.COM

STRUCTURAL ENGINEER

KEYSTONE STRUCTURAL ENGINEERING
531 ROSELANE ST. SUITE 150
MARIETTA, GA 30060
CONTACT:
BRENDAN CROWLEY
404-483-6921
BCROWLEY@KEYSTONEPC.COM

MECH. & PLUMB. ENGINEER

TOTAL ENGINEERS
169 NEW ST
MACON, GA 31201
CONTACT:
KRUNAL PATEL, P.E.
478-741-4632
KRUNALPATEL@TOTALENGINEERS.COM

ELECTRICAL ENGINEER

ELECTRICAL DESIGN CONSULTANTS
1201 BROAD STREET, SUITE 1A,
AUGUSTA, GA 30901
CONTACT:
JEFF MCGEE
706-724-3551
JMCGEE@EDC1973.COM

CONSULTANTS NOT IN CSC DESIGN'S SCOPE OF SERVICES. DRAWINGS ARE NOT BY ARCHITECT AND ARE INCLUDED HEREIN FOR CONVENIENCE ONLY.

BUILDING CODE ANALYSIS

A. GENERAL

1. GOVERNING CODES

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

ACCESSIBILITY

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

LIFE SAFETY

2024 NFPA 101, LIFE SAFETY CODE (LSC) W/ 2025 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS 120-3-3-.04(72)
2023 INTERNATIONAL FIRE CODE (IFC)
CHAPTER 120-3-3 RULES & REGULATIONS OF THE STATE MIN. & FIRE SAFETY STANDARDS (EFFECTIVE JANUARY 1, 2026)
2022 NFPA 13 FIRE SPRINKLER SYSTEMS W/ 2025 GEORGIA STATE FIRE COMMISSIONER AMENDMENTS

B. OCCUPANCY CLASSIFICATION

GROUP	2024 NFPA 101	IBC CHAPTER 3
S-1	STORAGE	STORAGE

C. TYPE OF CONSTRUCTION (IBC CHAPTER 6)

GROUP	TYPE	SPRINKLERED
S-1	IIB	YES

D. HEIGHT AND AREA LIMITS (IBC TABLE 504.3, 504.4, & 506.2)

ALLOWABLE BUILDING HEIGHT AND AREA:

GROUP	SPRINKLERED	MAX HEIGHT*	MAX STORIES*	MAX AREA/LEVEL**
S-1	YES	75'-0"	4	70,000 SF

* PER IBC TABLE 504.3 & 504.4
** PER IBC TABLE 506.2

ACTUAL BUILDING HEIGHT AND AREA:

GROUP	SPRINKLERED	HEIGHT	STORIES	AREA/LEVEL
S-1	YES	31'-0"	1	20,000 SF

E. FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (IBC TABLE 601)

BUILDING ELEMENT	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
EXTERIOR NONBEARING WALLS AND PARTITIONS	SEE F
INTERIOR NONBEARING WALLS AND PARTITIONS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

PROVIDED BUILDING FIRE-RESISTANCE ASSEMBLIES:

BUILDING ELEMENT	TYPE II-B
PRIMARY STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
EXTERIOR NONBEARING WALLS AND PARTITIONS	0
INTERIOR NONBEARING WALLS AND PARTITIONS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

F. FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE (IBC TABLE 602)

FIRE SEPARATION	TYPE OF CONSTRUCTION	H	OCCUPANCY GROUP		
			F-1, M, S-1	A, B, E, F-2, I, R, S-2, U	
X < 5	ALL	3	2	1	
5 ≤ X < 10	I-A, IV-A OTHERS	3	2	1	1
10 ≤ X < 30	I-A, I-B, IV-A, IV-B	2	1	0	1*
	II-B, V-B	1	0	0	
	OTHERS	1	1	1*	
X ≥ 30	ALL	0	0	0	

BUILDING INFORMATION

SITE ADDRESS:

257 HIGHWAY 81
OXFORD, GA 30054

JURISDICTION:

WALTON COUNTY, GEORGIA

PROJECT DESCRIPTION:

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.

CLASSIFICATIONS:

STORAGE (S-1) WITH ACCESSORY BUSINESS (B) OCCUPANCIES

CONSTRUCTION TYPES:

IIB

SPRINKLERED:

YES (NFPA 13)

FIRE ALARM:

NO

NO. OF STORIES:

1

HIGH-RISE:

NO

VICINITY LOCATION

SHEET INDEX

ISSUED FOR CONSTRUCTION 04.15.2026

REV# COUNTY COMMENTS 08.18.2026

REVISIONS

DATE

SHEET NUMBER	SHEET NAME				
GENERAL					
G-000	COVER SHEET			1	08/18/2026
G-005	SYMBOLS & LEGENDS				
G-006	GENERAL NOTES & COMCHECK				
G-050	ACCESSIBILITY DETAILS				
G-051	ACCESSIBILITY DETAILS				
G-052	ACCESSIBLE CASEWORK DETAILS				
G-060	CODE REQUIRED SIGNAGE				
LS101	LIFE SAFETY PLAN				
G-220	METAL STUD PARTITION TYPES				
ARCHITECTURE					
A-001	ARCHITECTURAL SITE PLAN			1	08/18/2026
A-101	FLOOR PLAN				
A-101-A	ENLARGED OFFICE PLAN				
A-122	ROOF PLAN				
A-201	REFLECTED CEILING PLAN				
A-201-A	ENLARGED OFFICE REFLECTED CEILING PLAN				
A-301	EXTERIOR ELEVATIONS				
A-401	BUILDING SECTIONS				
A-402	BUILDING SECTIONS				
A-411	WALL SECTIONS				
A-412	WALL SECTIONS				
A-413	WALL SECTIONS				
A-501	ENLARGED RESTROOM & BREAKROOM PLAN & INT. ELEVATIONS				
A-711	ENLARGED DETAILS - ZEE, VERTICAL MWP				
A-801	DOOR SCHEDULE				
A-805	DOOR HEAD, JAMB & SILL DETAILS				
A-825	STOREFRONT HEAD, JAMB & SILL DETAILS				
STRUCTURAL					
S0.1	STRUCTURAL GENERAL NOTES & SCHEDULES				
S1.1	FOUNDATION PLAN				
S3.1	FOUNDATION DETAILS				
S3.2	FOUNDATION DETAILS				
S5.1	SCHEDULE OF SPECIAL INSPECTION				
MECHANICAL					
M-001	MECHANICAL LEGEND, ABBREVIATIONS, AND NOTES				
M-002	MECHANICAL SPECIFICATIONS				
M-003	MECHANICAL SCHEDULES			1	08/18/2026
M-004	MECHANICAL DETAILS				
M-005	MECHANICAL DETAILS				
M-101	OVERALL MECHANICAL PLAN				
M-101A	ENLARGED OFFICE MECHANICAL PLAN				
PLUMBING					
P-0.1	PLUMBING SCHEDULES & SPECIFICATIONS				
P-0.2	FIRE SPECIFICATIONS				
P-101	OVERALL PLUMBING PLAN				
P-101A	ENLARGED OFFICE PLUMBING PLAN				
ELECTRICAL					
E-001	LEGENDS, NOTES, DETAILS, AND FIXTURE SCHEDULE			1	08/18/2026
E-002	ELECTRICAL SPECIFICATIONS			1	08/18/2026
E-101	SITE PLAN - ELECTRICAL			1	08/18/2026
E-201	OVERALL FLOOR PLAN - LIGHTING				
E-202	OFFICE FLOOR PLAN - LIGHTING			1	08/18/2026
E-301	OVERALL FLOOR PLAN - POWER & TELE/ DATA			1	08/18/2026
E-302	OFFICE FLOOR PLAN - POWER & TELE/ DATA			1	08/18/2026
E-401	OVERALL FLOOR PLAN - LOW VOLTAGE			1	08/18/2026
E-501	ELECTRICAL DETAILS				
E-502	ELECTRICAL SCHEDULES			1	08/18/2026
Grand total: 52					

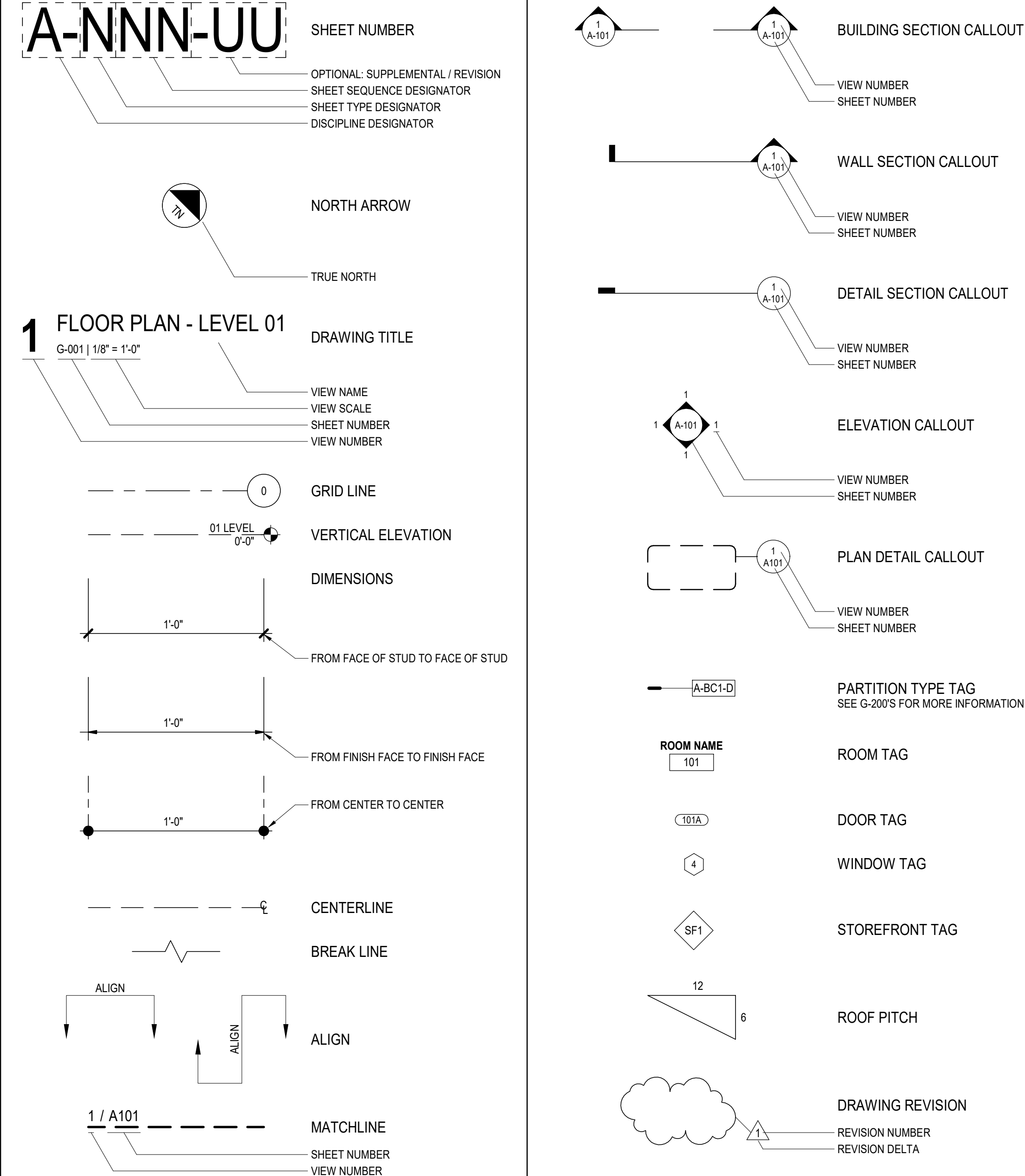
ALPHA BLDG SET 09-17-2026

%	PERCENT	E
§	SECTION	E

S	PERCENT SECTION	E	EAST	L	ANGLE; LENGTH; LOW	R	U
A		EA	EACH	LH	LABORATORY	R	HEAT TRANSFER COEFFICIENT
A/C	AIR CONDITIONER	EF	EACH FACE; EXHAUST FAN	LAB	LABORATORY	UC	UNDERCUT
A/E	ARCHITECT / ENGINEER	EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	LAM	LAMINATE; LAMINATED	UH	UNIT HEATER
AV	AUDIO VISUAL	EJ	EXPANSION JOINT	LAV	LAVATORY	UL	UNDERWRITERS LABORATORIES INC.
AB	ANCHOR BOLT	EL	ELEVATION	LB	POUND	UNEXCAV	UNEXCAVATED
ACC	ACCESSIBLE	ELEC	ELECTRIC; ELECTRICAL	LBS	POUNDS	UNO	UNLESS NOTED OTHERWISE
ACI	AMERICAN CONCRETE INSTITUTE	EDG	LANDING	LDG	LANDING	UPS	UNINTERRUPTABLE POWER SUPPLY
ACT	ACOUSTICAL CEILING TILE	ELEV	ELEVATOR	LED	LIGHT EMITTING DIODE	UR	URINAL
ADA	AMERICANS WITH DISSABILITIES ACT	EMERG	EMERGENCY	LF	LINEAR FOOT; LINEAR FEET	USF	USABLE SQUARE FOOTAGE
ADJ	ADJACENT; ADJUSTABLE	ENCL	ENCLOSURE	LH	LEFT HAND	USG	UNITED STATES GYPSUM CORPORATION
ADMIN	ADMINISTRATION	ENGR	ENGINEER	LHB	LEFT HAND REVERSE	UTIL	UTILITY
AFF	ABOVE FLOOR FINISH	ENTR	ENTRANCE	LIB	LIBRARY		
AFG	ABOVE FINISH GRADE	EPA	ENVIRONMENTAL PROTECTION AGENCY	LIN	LINEAR		
AHU	AUTHORITY HAVING JURISTICTION	EQ	EQUAL	LL	LIVE LOAD		
AHU	AIR HANDLING UNIT	EST	ESTIMATE	LONG	LONGITUDINAL		
AIA	AMERICAN INSTITUTE OF ARCHITECTS	EW	EACH WAY	LR	LIVING ROOM		
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EWC	ELECTRIC WATER COOLER	LT	LIGHT		
ALT	ALTERNATE; ALTERNATING	EXH	EXHAUST	LTG	LIGHTING		
ALUM	ALUMINUM	EXP	EXPANSION; EXPOSED	LVL	LAMINATED VENEER LUMBER; LEVEL		
ANOD	ANODIZED	EXT	EXTERIOR; EXTERNAL	M	METER		
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE			M	METER		
APPROX	APPROXIMATE	F	FACE OF	M	METER		
ARCH	ARCHITECT	F.O.	FLOOR AREA RATING	MAL	METAL HALIDE		
AUTO	AUTOMATIC	FAR	FLOOR AREA RATING	MAINT	MAINTENANCE		
AVG	AVERAGE	FC	FOOT CANDLES	MAS	MASONRY		
AWI	ARCHITECTURAL WOODWORKING INSTITUTE	FCO	FLOOR CLEANOUT	MATL	MATERIAL		
		FD	FLOOR DRAIN	MAX	MAXIMUM		
		FEN	FOUNDATION	MBR	MEMBER		
		FE	FIRE EXTINGUISHER	MECH	MECHANICAL		
		FF&E	FURNITURE, FIXTURES & EQUIPMENT	MED	MEDIUM		
		FFC	FIRE EXTINGUISHER CABINET	MEZZ	MEZZANINE		
		FHC	FIRE HOSE CABINET	MFR	MANUFACTURER		
		FIG	FIGURE	MIN	MINIMUM; MINUTE		
		FIN	FINISH	MISC	MISCELLANEOUS		
		FIXT	FIXTURE	MO	MASONRY OPENING		
		FLEX	FLEXIBLE	MT	MOUNT		
		FLG	FLOORING	MTG	MOUNTING		
		FLOUR	FLOURESCENT	MTL	METAL		
		FLR	FLOOR	MW	MICROWAVE		
		FOM	FACE OF MASONRY	MWP	METAL WALL PANEL		
		FOS	FACE OF STUD	N	NORTH		
		FP	FIRE PROTECTIONS	N	NORTH		
		FPL	FABRIC PANEL	N/A	NOT APPLICABLE		
		FR	FIRE RATING; FIRE RESISTANT; FRAME	NE	NORTH EAST		
		FRTWD	FIRE RETARDANT TREATED WOOD	NEG	NEGATIVE		
		FT	FEET (FOOT)	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION		
		FTG	FOOTING	NIC	NOT IN CONTRACT		
		FURR	FURRING	NO	NUMBER		
		FWC	FABRIC WALL COVERING	NOM	NOMINAL		
		G		NRC	NOISE REDUCTION COEFFICIENT		
		GA	GAGE	NRF	NET SQUARE FOOT; NET SQUARE FOOT		
		CALV	GALVANIZED	NTS	NOT TO SCALE		
		CC	GENERAL CONTRACTOR	NW	NORTHWEST		
		GEN	GENERAL	O	ON CENTER		
		GENR	GENERATOR	OCC	OCCUPANCY; OCCUPIED		
		GFI	GROUND FAULT INTERRUPTER	OD	OUTSIDE DIAMETER		
		GL	GLASS	OFF	OFFICE		
		GLZ	GLAZING	OH	OVERHEAD		
		GRD	GROUND	OPG	OPENING		
		GSB	GYPSUM SHEATHING BOARD	OPP	OPPOSITE		
		GWB	GYPSUM WALL BOARD	OZ	OUNCE; OUNCES		
		GYP	GYPSUM				
		H	HIGH				
		HB	HOSE BIBB				
		HC	HANDICAP; HOLLOW CORE				
		HDR	HEADER				
		HDW	HARDWARE				
		HEX	HEXAGONAL				
		HID	HIGH INTENSITY DISCHARGE				
		HM	HOLLOW METAL				
		HR	HOUR				
		HT	HEIGHT				
		HTG	HEATING				
		HTR	HEATER				
		HVAC	HEATING, VENTILATING AND AIR CONDITIONING				
		HW	HOT WATER				
		HW	HOT WATER				
		HWY	HIGHWAY				
		I					
		IAQ	INDOOR AIR QUALITY				
		IBC	INTERNATIONAL BUILDING CODE				
		IC	IN CONTRACT				
		ID	IDENTIFICATION; INTERIOR DESIGN; INSIDE DIAMETER				
		IN	INCHES				
		INCL	INCLUDING				
		INCLD	INCLUDING				
		INFO	INFORMATION				
		INSUL	INSULATION				
		INT	INTERIOR				
		INV	INVERT				
		J					
		JAN	JANITOR				
		JB	JUNCTION BOX				
		JST	JOIST				
		JT	JOINT				
		K					
		KD	KNOCK DOWN				
		KIP	THOUSAND POUNDS				
		KIT	KITCHEN				
		KWY	KEYWAY				

ALUMINUM
ALUMINUM

ANNINI



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.

2. UNLESS NOTED OTHERWISE, WALL AND PARTITION DIMENSIONS ARE GIVEN FROM FACE OF STUD/CMU TO FACE OF STUD/CMU OR TO COLUMN CENTERLINE. EXCEPTION: MILLWORK DETAILS WHERE DIMENSIONS ARE GIVEN FROM FACE OF FINISH SURFACES (GWB, PLASTER, ETC.). LOCATE EDGE OF DOOR OPENINGS 6" FROM FACE OF ADJACENT PARTITION UNLESS NOTED OTHERWISE.

3. 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.

4. ALL CENTERLINE OF FOOTINGS, WALLS, GRADE BEAMS, COLUMNS AND BEAMS SHALL COINCIDE, UNLESS NOTED OTHERWISE.

5. 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.

6. 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.

7. ALL DRAWINGS, SPECIFICATIONS, & OTHER DOCUMENTS PREPARED BY THE ARCHITECT & ARCHITECT'S CONSULTANTS ARE INSTRUMENTS OF SERVICE SOLELY FOR THIS PROJECT.

8. 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.

9. 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.

10. 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.

11. 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.

12. THE CONTRACTOR SHALL PROVIDE ALL REGULATORY AGENCY REQUIRED SIGNAGE NECESSARY FOR CERTIFICATE OF OCCUPANCY.

13. 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 (ASI) WHICH ARE CONSISTENT WITH THE INTENT OF THE CONTRACT DOCUMENTS.

14. THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR BRACING AND SHORING OF THE STRUCTURE DURING CONSTRUCTION TO ENSURE STABILITY.

15. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH THE AUTHORITIES HAVING JURISDICTION ON THE PROJECT.

16. 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.

17. 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.

18. 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.

19. 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.

20. 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.

21. MATERIAL AND EQUIPMENT STORAGE SHALL BE ON SITE AND COORDINATED WITH OWNER'S DIRECTIVES.

22. 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 BRAILLE. 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.

23. 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 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.

24. (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.

25. 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.

26. DETECTABLE WARNINGS ON WALKING SURFACES SHALL COMPLY WITH THE GEORGIA ACCESSIBILITY CODE AND THE ADA STANDARDS FOR ACCESSIBLE DESIGN.

27. 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.

28. 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.

29. 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.

30. ALL WOOD LUMBER AND PLYWOOD OR O.S.B. USED IN EXTERIOR CONSTRUCTION SHALL BE PRESSURE TREATED THAT COMES IN CONTACT WITH CONCRETE OR WITHIN 12" OF GRAVING/SOIL.

31. EMERGENCY LIGHTING COMPLYING WITH NFPA 101 LIFE SAFETY CODE SHALL BE INSTALLED. ADDITIONAL EMERGENCY LIGHTING MAY BE REQUIRED UPON FIELD INSPECTION.

32. 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.

33. 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.

34. 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.

35. PROVIDE FIRE RETARDANT TREATED BLOCKING IN PARTITIONS AS REQUIRED FOR SUPPORTING WALL MOUNTED EQUIPMENT, ETC.

36. 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.

37. ATTIC ACCESS FROM AN ADJACENT SPACE SHALL BE PROVIDED WHERE THE BELOW ITEMS OCCUR OVER GYPSUM BOARD CEILINGS:

A. VALVES

B. FLOW MEASURING DEVICES

C. MIXING BOXES

D. POWER OPERATED DAMPERS

E. ACCESS PANELS IN DUCTWORK

F. VOLUME AND BALANCING DEVICES

G. WATERFLOW SWITCHES

H. SPRINKLER SYSTEM DRAINS AND TEST CONNECTIONS

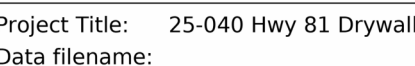
I. PRESSURE SWITCHES

J. ANY OTHER SIMILAR RELATED ITEMS/DEVICES REQUIRING ACCESS FOR SERVICING OR MAINTENANCE

38. 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.

39. SLOPE ALL SLABS AT EXTERIOR BUILDING ENTRANCES 1/8" FT AWAY FROM BUILDING IN ALL LOCATIONS.

- ALPHA BLDG SET 09-17-2026





MOUNTING HEIGHTS





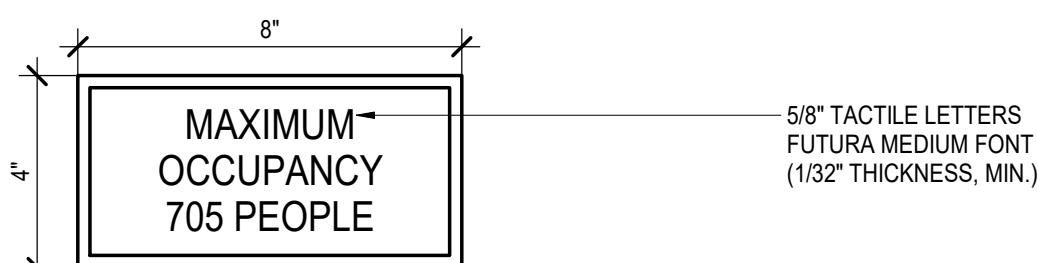
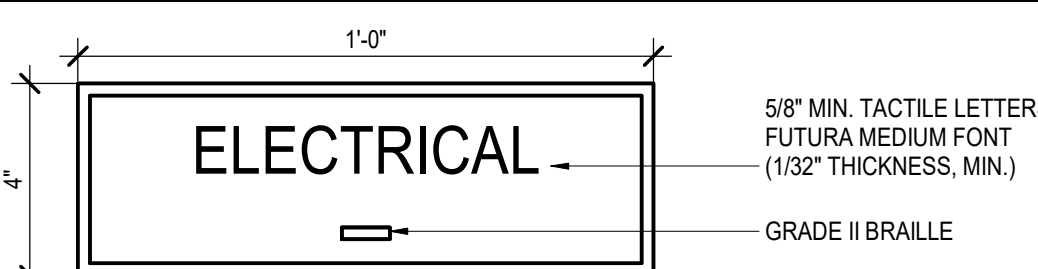
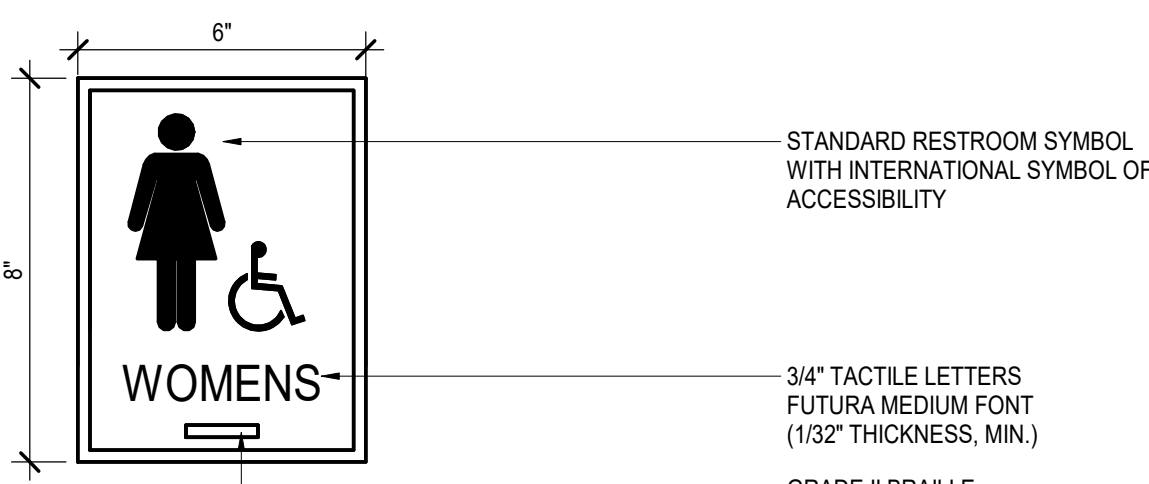


REVISIONS	
NO:	DATE:

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ISSUED FOR
CONSTRUCTION

ALPHA BLDG SET 09-17-2026

SIGNAGE LEGEND	
SIGN TYPE	LOCATION NOTES
	
 S-1 12" X 4" ROOM ID 1/8" THICK ACRYLIC FACE, FROSTED WHITE 1/8" THICK PVC BACK, OFFSET 1/4"	1. LOCATE AT EACH ROOM ENTRY, ACCESSIBLE TO PUBLIC
 S-2 6" X 8" RESTROOM ID 1/8" THICK ACRYLIC FACE, FROSTED WHITE 1/8" THICK PVC BACK, OFFSET 1/4"	1. LOCATE AT EACH PUBLIC RESTROOM
ALPHA BLDG SET 09-17-2026	

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

LIFE SAFETY LEGEND

EXIT TRAVEL DISTANCE

TOTAL TRAVEL DISTANCE

DEAD END LENGTH

EXIT DATA

EXIT NUMBER

STAIR EGRESS CAPACITY

DOOR EGRESS CAPACITY

DOOR EGRESS WIDTH

EXIT LIGHT - SEE ELECTRICAL DRAWINGS

FIRE EXTINGUISHER

LED EXTERIOR EMERGENCY LIGHT @EXIT DOORS - SEE ELECTRICAL DRAWINGS

OCCUPANCY LEGEND

STORAGE 1

LIFE SAFETY KEYNOTES

AS
ACCESSORY STORAGE
NO SEPARATION; IBC 508.2.4

TRAVEL DISTANCE

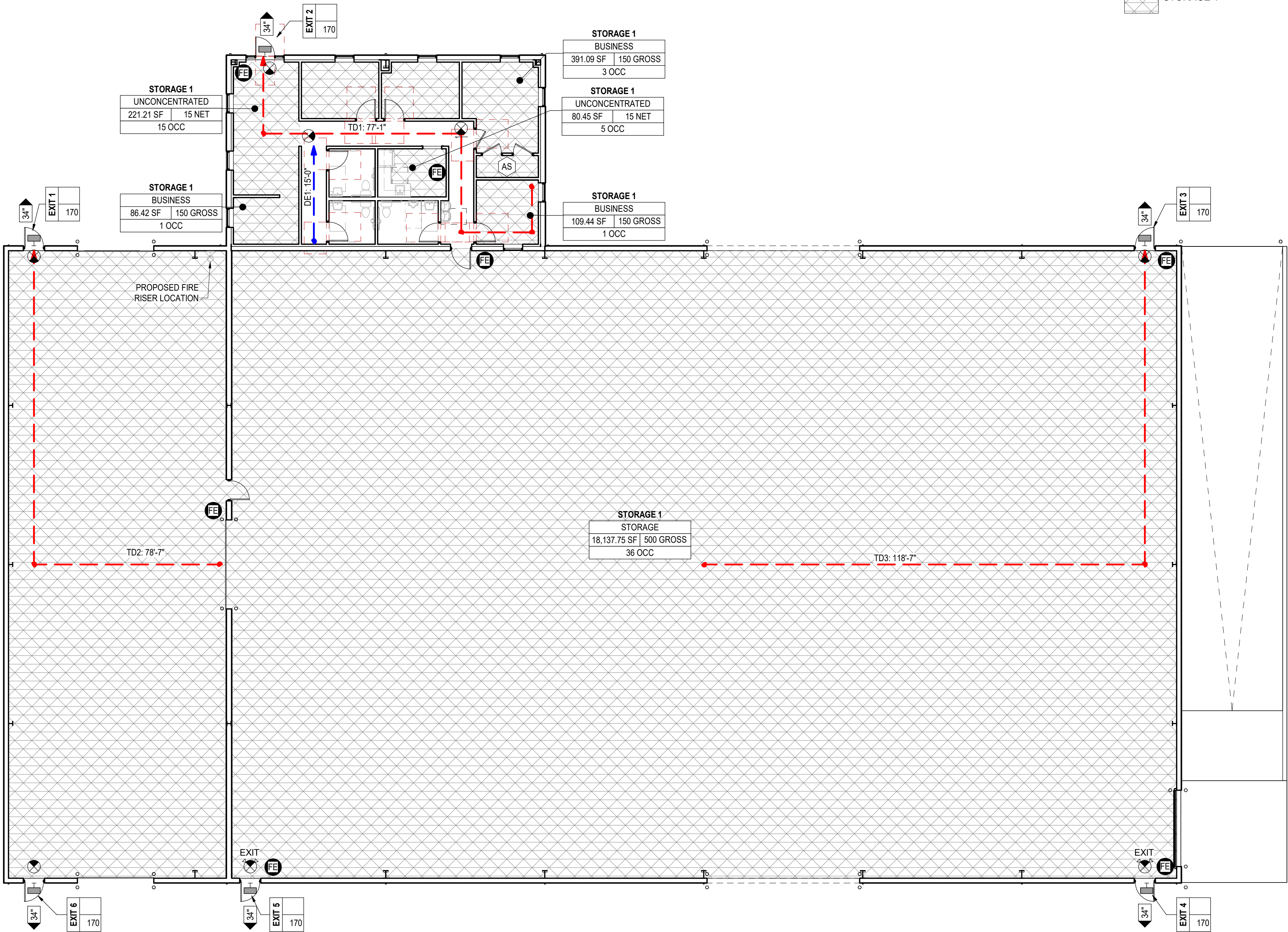
NEW STORAGE OCCUPANCY [SPRINKLERED]
LSC CHAPTER 42, IBC CHAPTER 3
GROUP S-1 (STORAGE) OCCUPANCY
TRAVEL DISTANCE
400' MAX; LSC 42.2.6
COMMON PATH 100'; LSC 42.2.5
DEAD END LIMIT 100'; LSC 42.2.5

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
TOTAL OCCUPANT LOAD	19,064.55 SF		61	0	61

ALPHA BLDG SET 09-17-2026

EGRESS CAPACITY:							
OCCUPANT TOTAL		NUMBER OF EXITS		HORIZONTAL: 0.2/OCC		STAIRWAY: 0.3/OCC	
61		2	6	12"	205'	N/A	N/A



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



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

PARTITION TYPES

PARTITION LEGEND

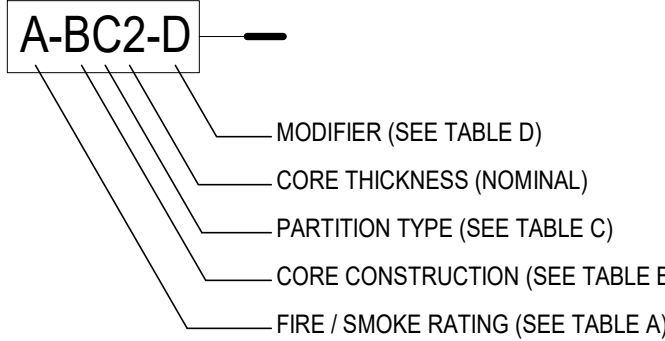


TABLE A - FIRE / SMOKE RATING		TABLE C - PARTITION TYPE	
0	NON-RATED CONSTRUCTION	A	(1) LAYER GYP. EACH SIDE
S	NON-RATED SMOKE PARTITION: FRAMING & GWB TO STRUCTURE ABOVE & SPACE AROUND PENETRATING ITEMS TO BE FILLED W/ APPROVED MATERIAL TO LIMIT PASSAGE OF SMOKE; COMPLY WITH 2018 IBC SECTION 710	B	(1)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

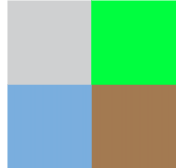
TABLE B - CORE CONSTRUCTION		TABLE D - MODIFIERS	
C	CONCRETE - CAST-IN-PLACE	A	PARTIAL HEIGHTS PARTITION / FRAMING & GWB TO X'-0" A.F.F. (SEE BLDG. DETAILS)
D	DEMISING	B	FRAMING & GWB TO FINISHED CEILING / PROVIDE BRACING AS REQUIRED
L	SPECIAL		'B' W/ 3" SOUND ATTENUATION BLANKETS (SAB) & 4" WIDE SAB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

PARTITION NOTES

- CONTRACTOR SHALL ADJUST STUD GAUGE AND/OR SPACING AND BRACE AS NECESSARY SO AS NOT TO EXCEED L/240 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.

ALPHA BLDG SET 09-17-2026

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"	-



CSC
DESIGN,
INC.
ARCHITECTS & ENGINEERS
135 P RICKMAN INDUSTRIAL DR.
SUITE 100 CANTON, GA 30115
Phone: (770) 345-2579

© 2024, CSC Design. These drawings are submitted by the registered owner of the United States. These drawings or any part thereof may not be reproduced or transmitted in any form or by any means without the written consent of CSC Design.



PROJECT NUMBER: 25-040

REVISIONS
NO. DATE ISSUE

25-040

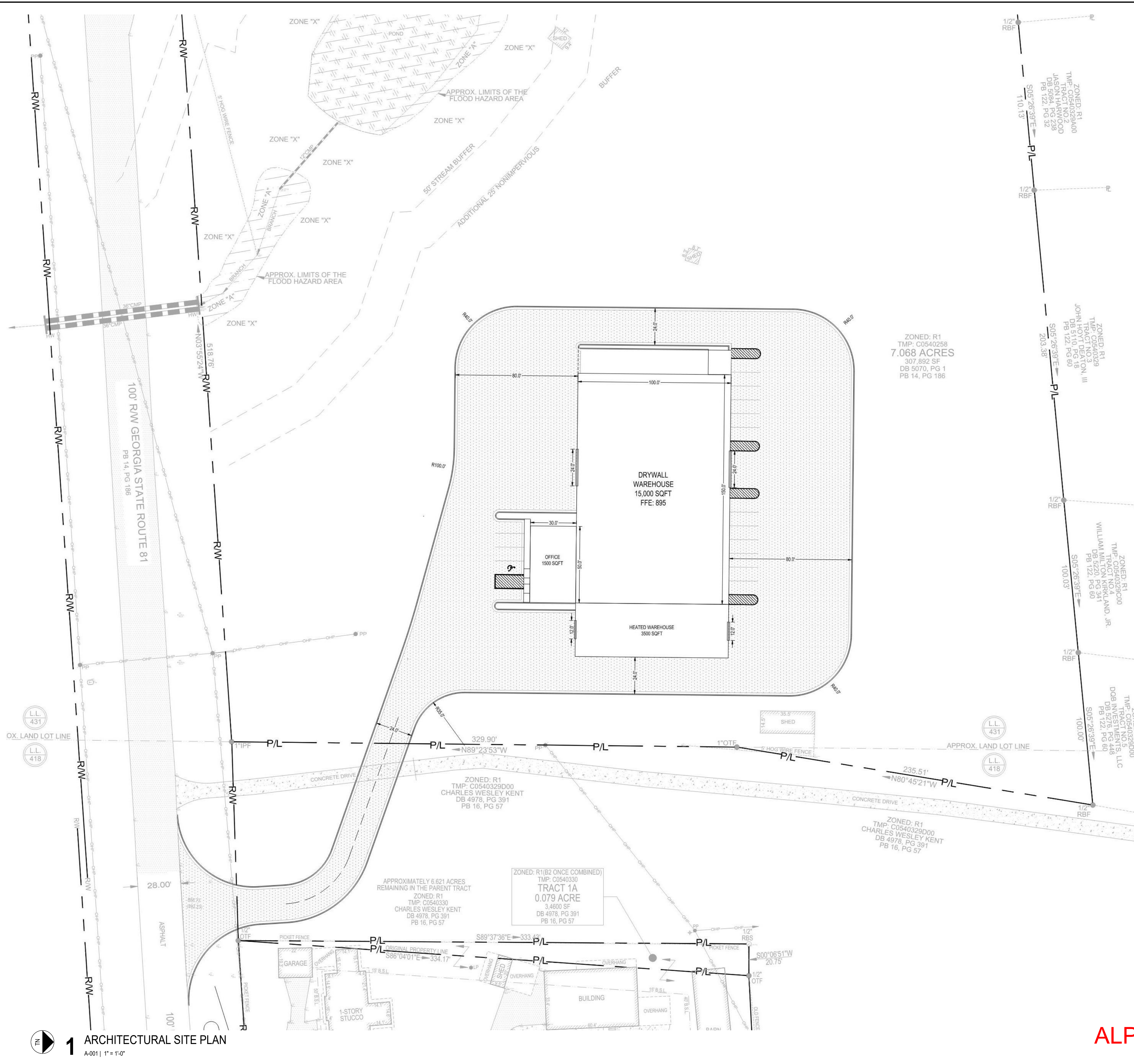
257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

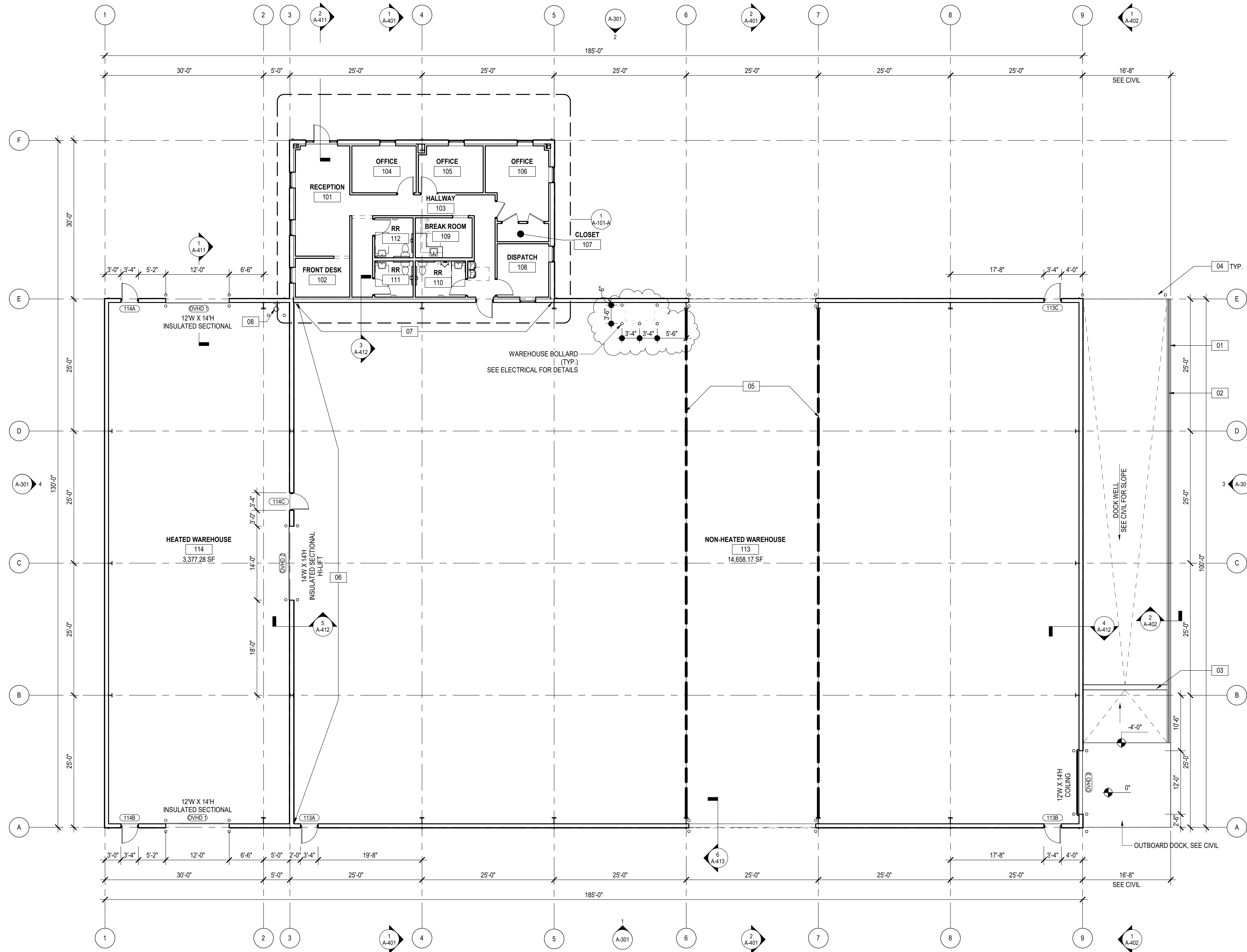
DRYWALL WAREHOUSE HWY 81

METAL STUD
PARTITION
TYPES

G-220

ISSUED FOR
CONSTRUCTION





1 FLOOR PLAN
A-101 | 1" = 10'-0"

FLOOR PLAN KEYNOTES

- 01 RETAINING WALL, SEE CIVIL
- 02 GALVANIZED STEEL GUARDRAIL
- 03 12" WIDE TRAFFIC RATED TRENCH DRAIN, SEE CIVIL
- 04 6" DIA PIPE BOLLARD TYP., PAINT TRAFFIC YELLOW
- 05 FLOOR STRIPING AT TRUCK LANE
- 06 INTERIOR PARTITION WALL PROVIDED BY PEMB SUPPLIER; PROVIDE FULL HEIGHT LINER PANEL AND R-19 INSULATION
- 07 PROVIDE FULL HEIGHT LINER PANEL AND R-19 INSULATION @ OFFICE WALL
- 08 PROPOSED FIRE RISER LOCATION, SEE CIVIL



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE	REVISED COMMENTS
	1	08/18/2026		

DRYWALL WAREHOUSE HWY 81

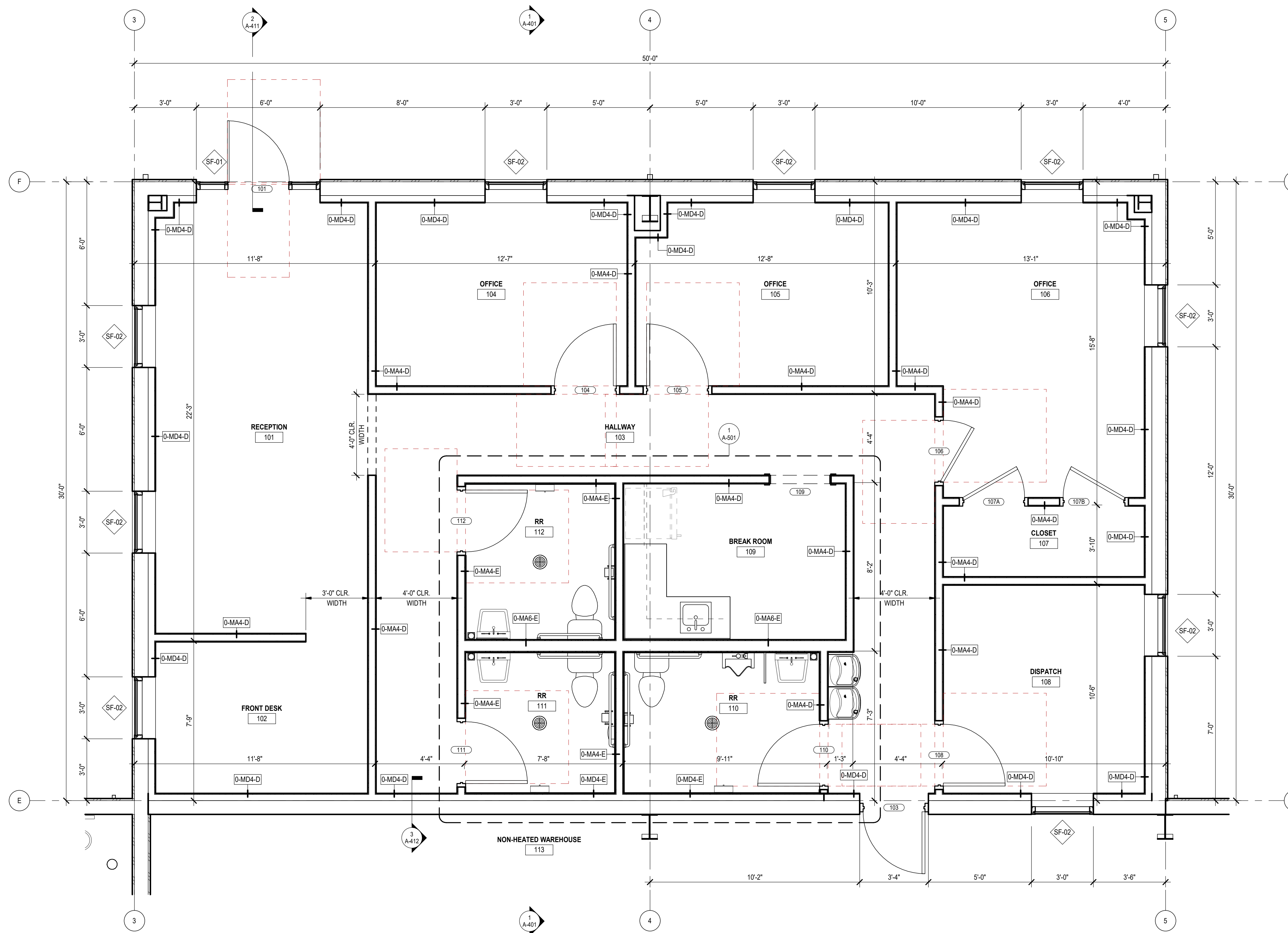
257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

FLOOR PLAN

A-101

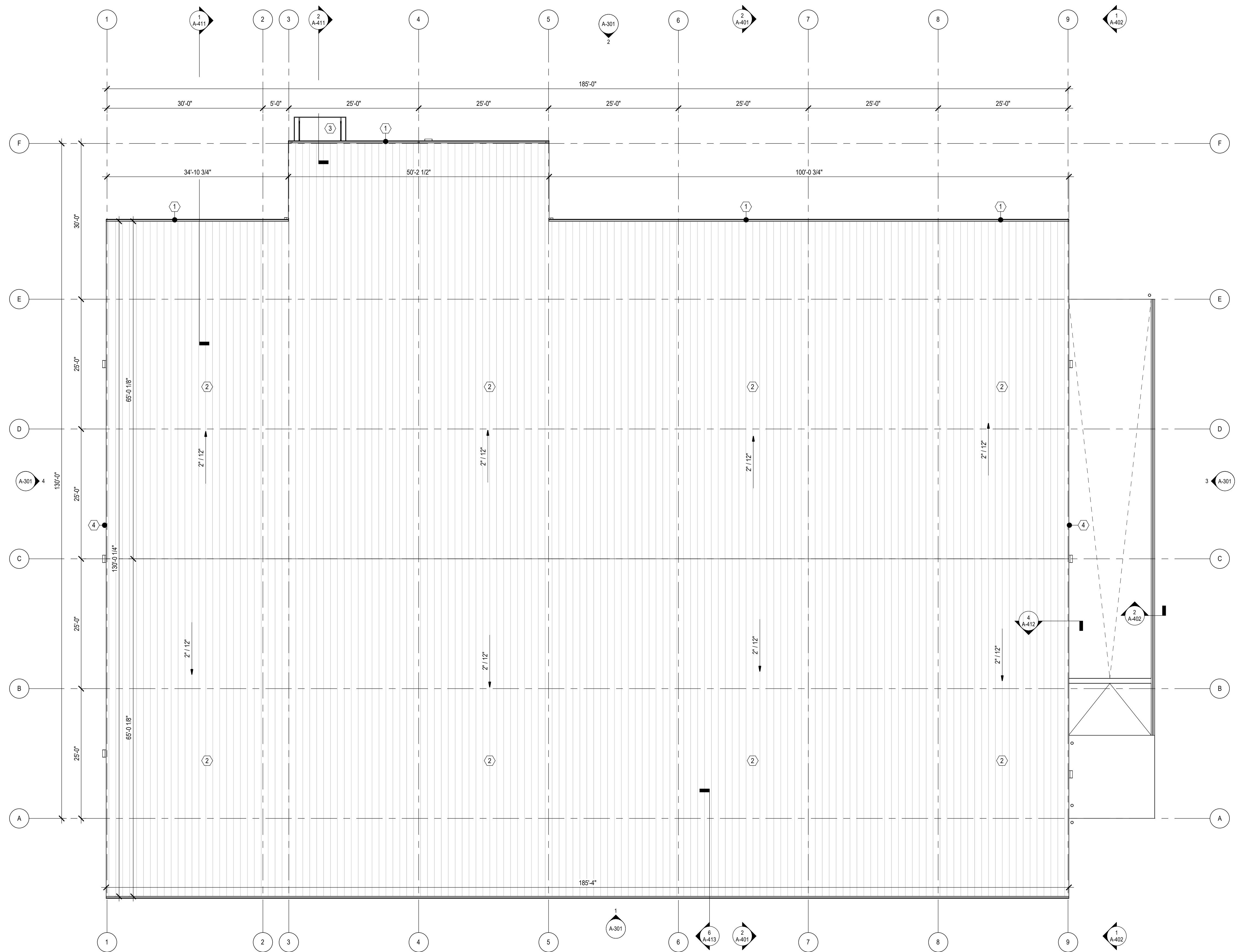
ISSUED FOR
CONSTRUCTION

ALPHA BLDG SET 09-17-2026



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

ALPHA BLDG SET 09-17-2026



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

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 |



PROJECT NUMBER: 25-040

ISSUE:

NO: DATE:

DRYWALL WAREHOUSE HWY 81

OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ROOF PLAN

A-122

ISSUED FOR
CONSTRUCTION

ALPHA BLDG SET 09-17-2026

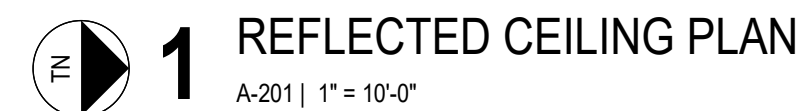


Diagram illustrating the components of a ceiling grid layout:

- CEILING TYPE**: Points to the top-left corner of the grid.
- CEILING HEIGHT / FIXTURE HEIGHT**: Points to the top-right corner of the grid.
- CEILING PATTERN**: Points to the bottom-left corner of the grid.
- CEILING FINISH**: Points to the bottom-right corner of the grid.

The grid is divided into four quadrants by a central cross:

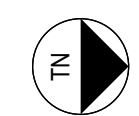
- Top-left quadrant: EXPSD
- Top-right quadrant: -
- Bottom-left quadrant: -
- Bottom-right quadrant: PTD

	EXP.D. EXPOSED TO STRUCTURE ABOVE
	ACT-O1 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-18 BATT INSULATION ABOVE ALL CEILING TILES

	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

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.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.

ALPHA BLDG SET 09-17-2026



A-201-A | 3/8" = 1'-0"

Diagram illustrating the components of a ceiling specification:

CEILING TYPE	EXPSPD	-	CEILING HEIGHT / FIXTURE HEIGHT
CEILING PATTERN	-	PTD	CEILING FINISH

	EXP.D. 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-18 BATT INSULATION ABOVE ALL CEILING TILES

	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

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.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.

ALPHA BLDG SET 09-17-2026



PROJECT NUMBER:	25-040
-----------------	--------

REVISIONS	
NO:	DATE: ISSUE:

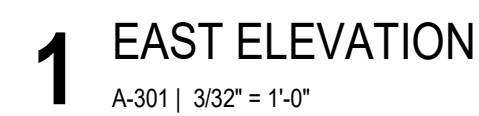
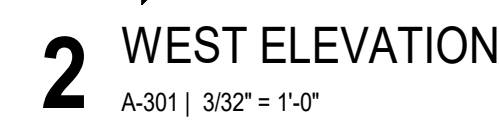
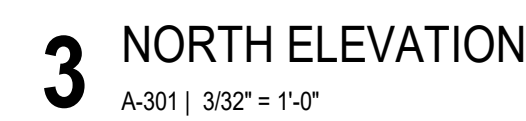
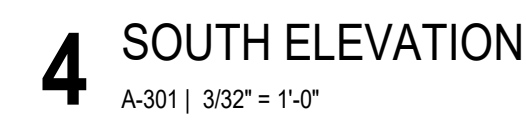
DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ENLARGED
OFFICE
REFLECTED
CEILING PLAN

A-201-A

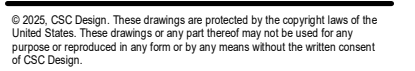
ISSUED FOR
CONSTRUCTION



EXTERIOR FINISH KEYNOTES

ELEVATION NOTES

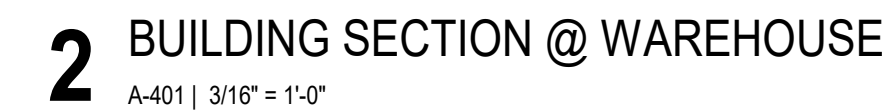
1. COORDINATE BUILDING SIGNAGE LOCATIONS AND SIGNAGE WITH OWNER. REFER TO ELECTRICAL DRAWINGS FOR SCHEDULE AND LOCATION.
2. MATERIAL MANUFACTURERS AND COLORS INDICATED ON DRAWINGS ARE SUBJECT TO CHANGE DURING THE CONSTRUCTION PROCESS. ANY DEVIATIONS FROM APPROVED PLANS SHALL BE SUBMITTED FOR APPROVAL.



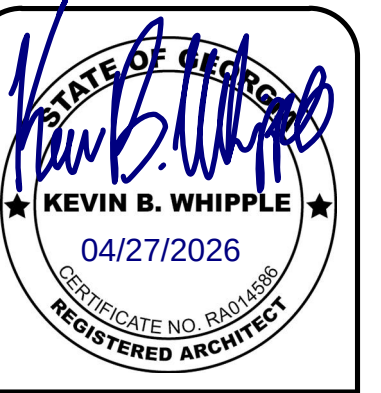
NO: DATE:

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ISSUED FOR
CONSTRUCTION



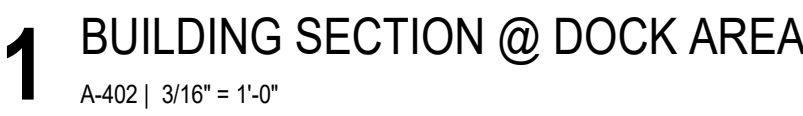
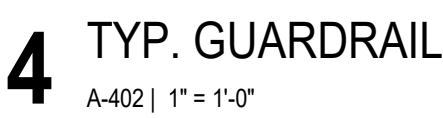
ALPHA BLDG SET 09-17-2026



NO: DATE:

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ISSUED FOR
INSTRUCTION



ALPHA BLDG SET 09-17-2026

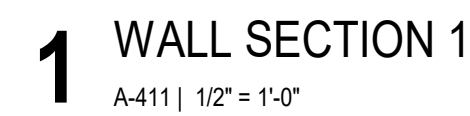
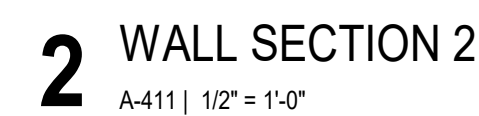
5.01	SCHEDULED CEILING W/ R-19 SOUND BATT INSULATION ABOVE
5.02	SCHEDULED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS



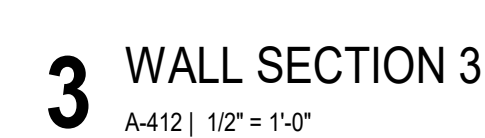
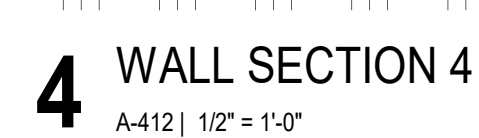
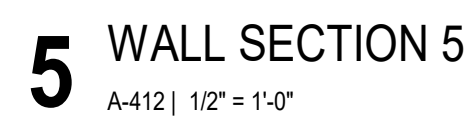
NO:	DATE:	ISSUE:
-----	-------	--------

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ISSUED FOR
CONSTRUCTION

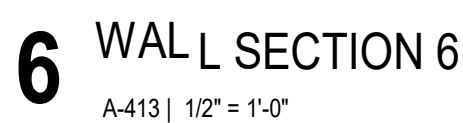


ALPHA BLDG SET 09-17-2026

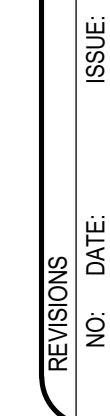


5.01	SCHEDULED CEILING W/ R-19 SOUND BATT INSULATION ABOVE
5.02	SCHEDULED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

ALPHA BLDG SET
09-17-2026



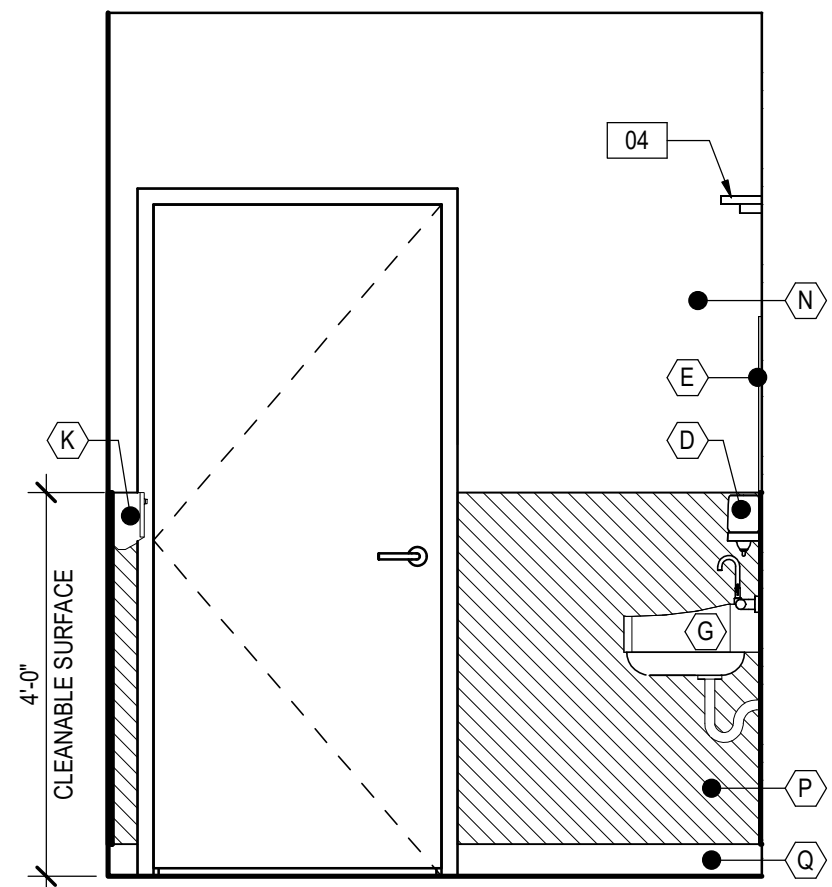
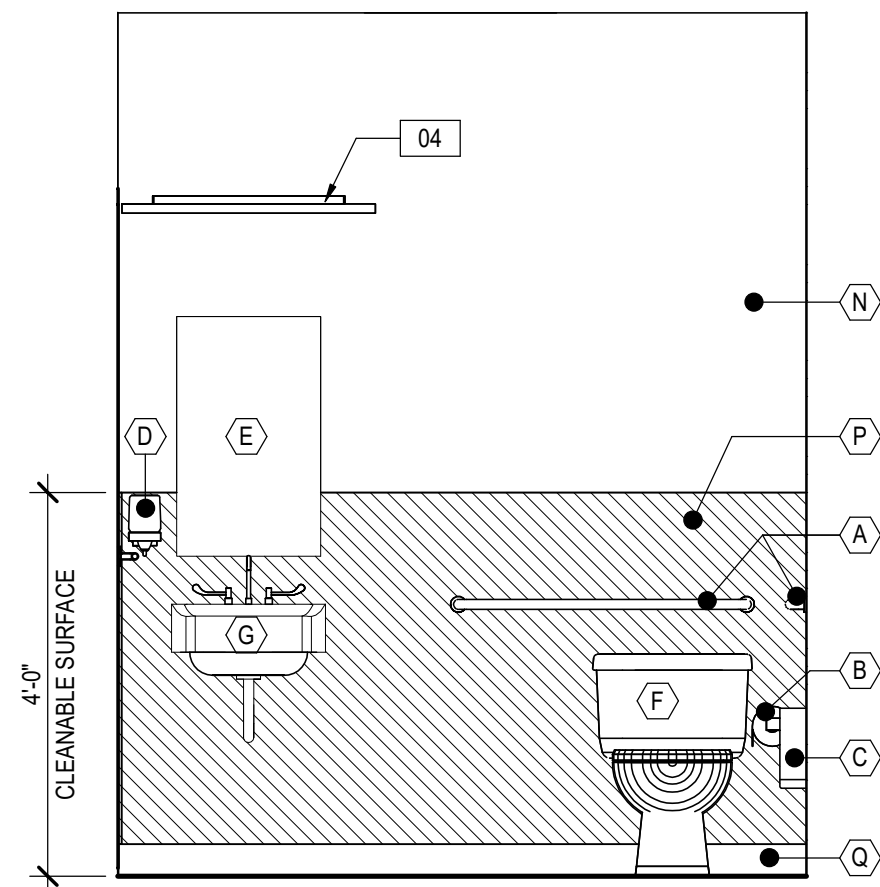
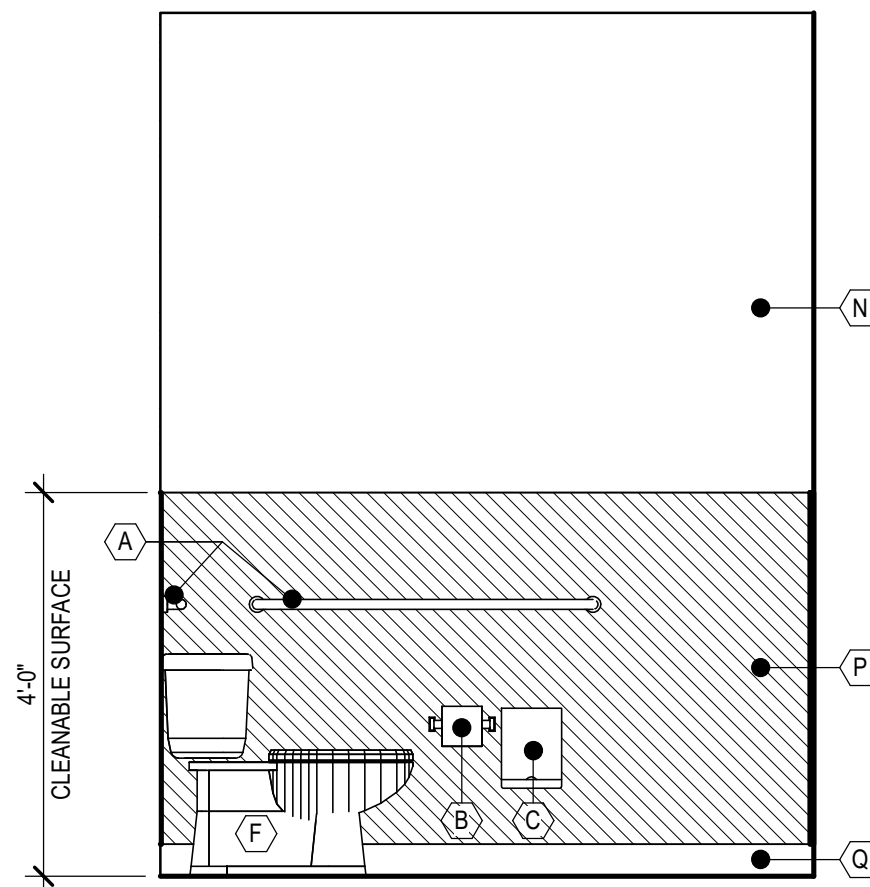
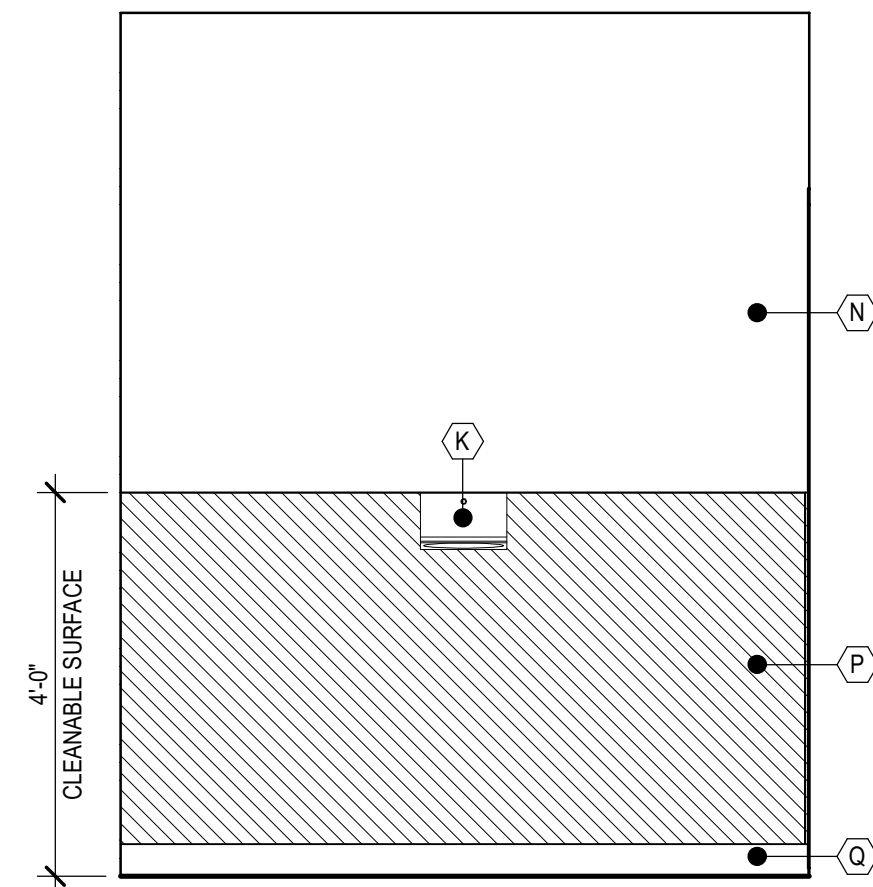
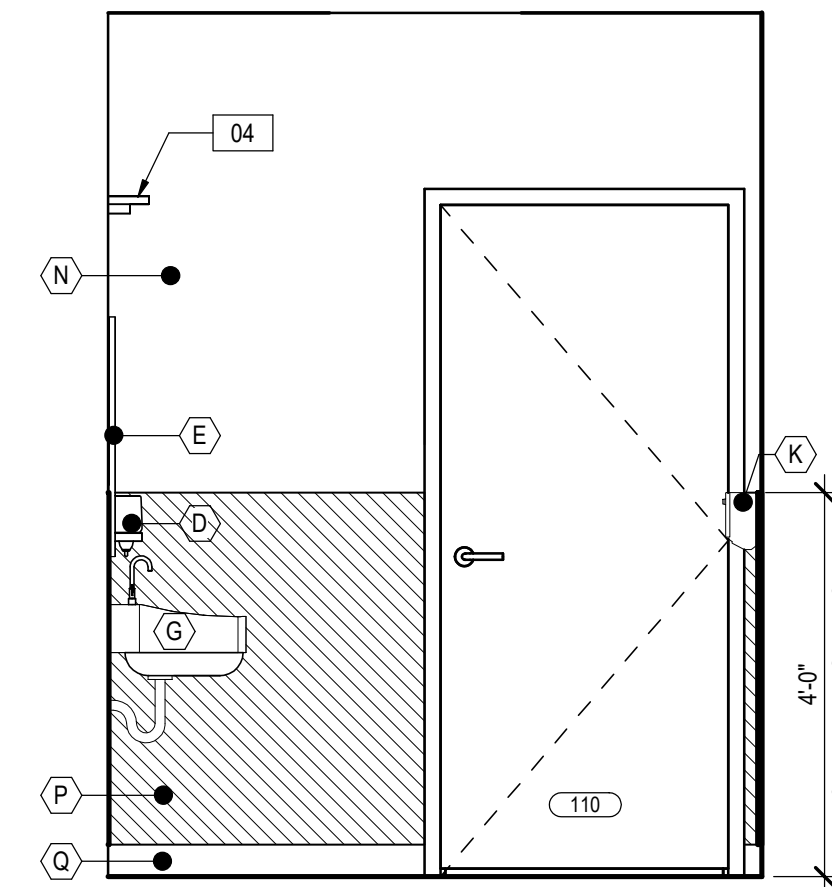
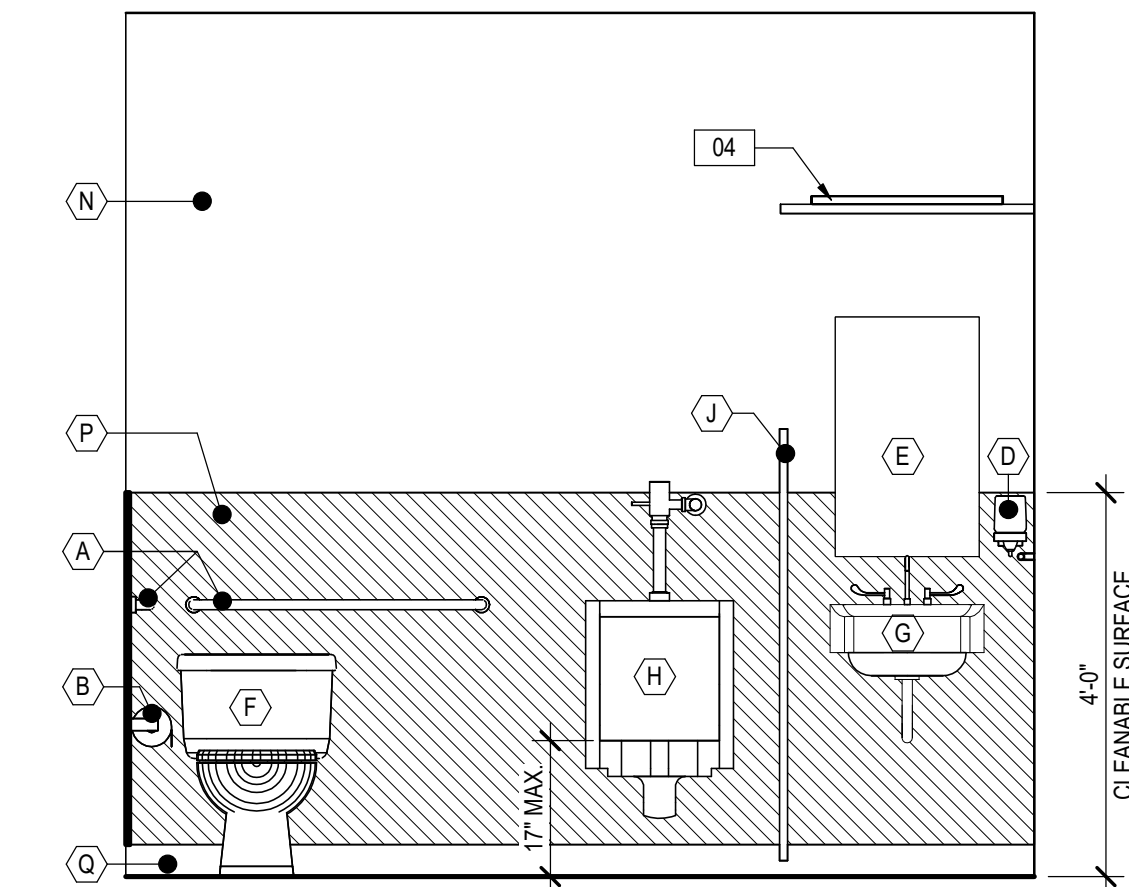
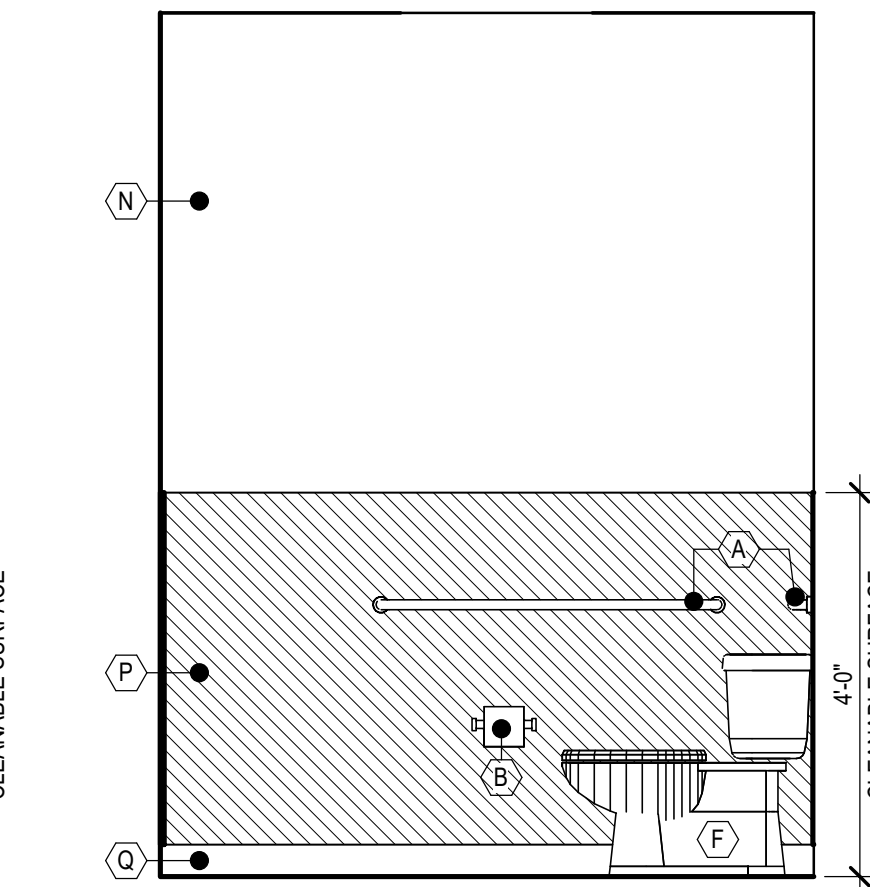
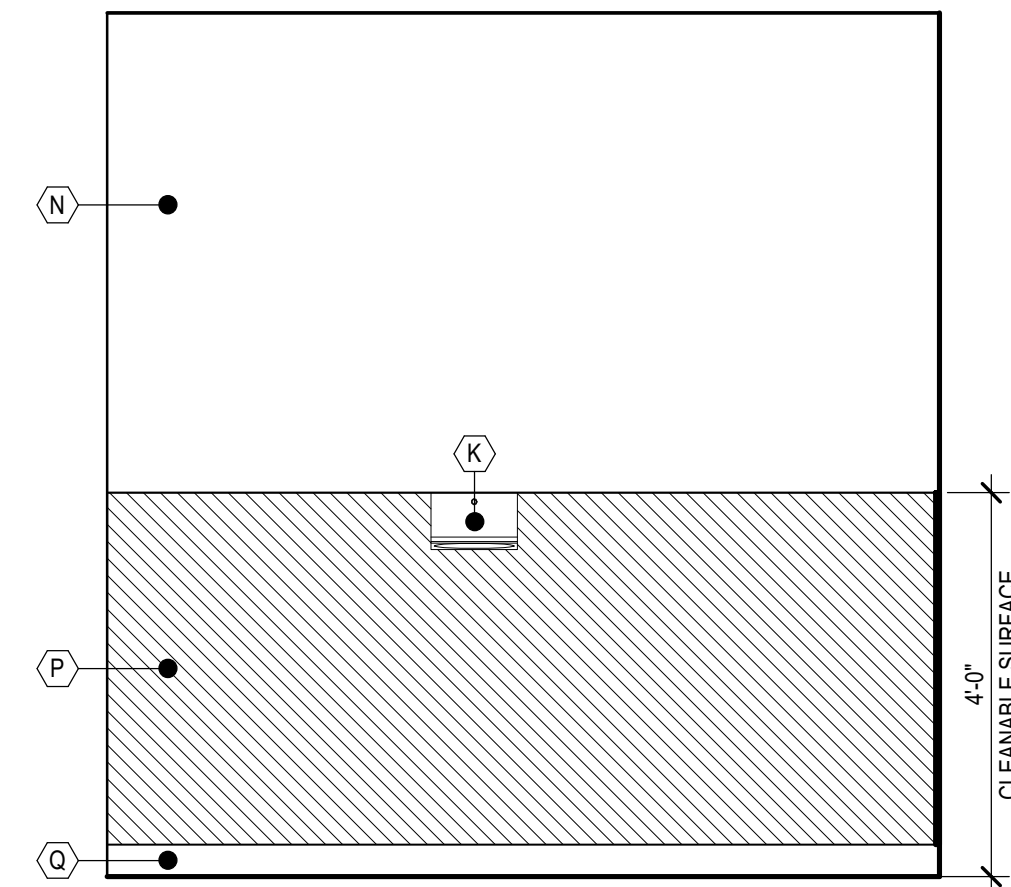
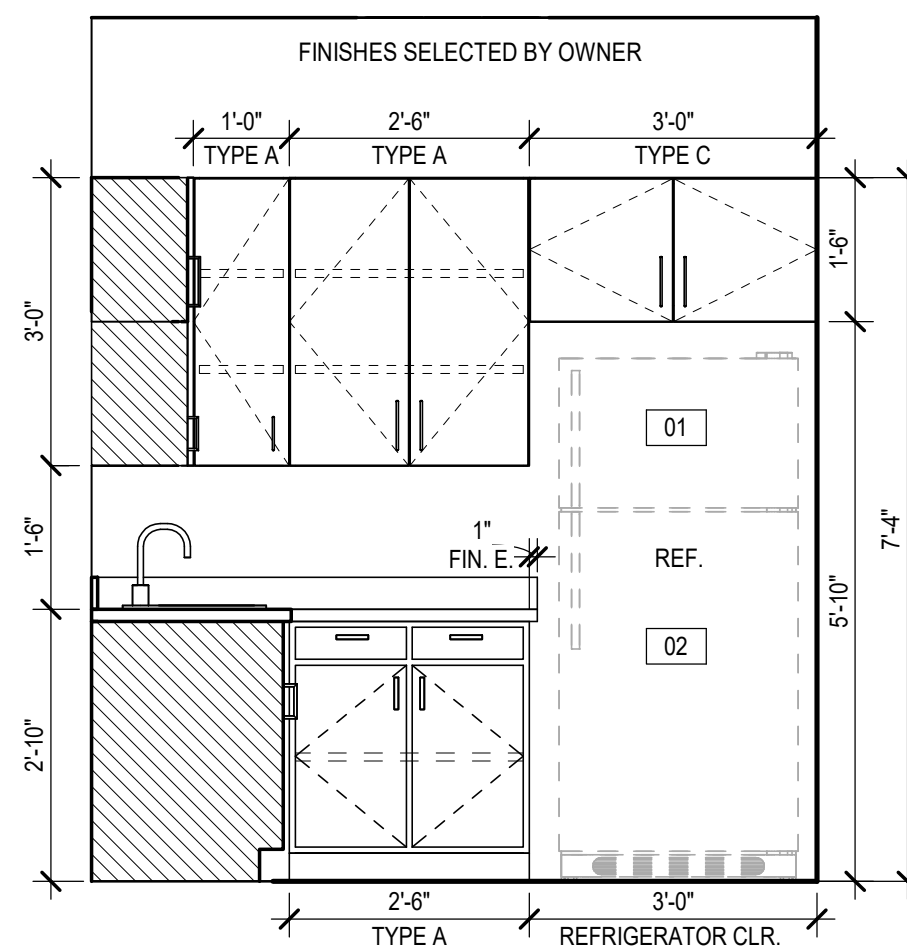
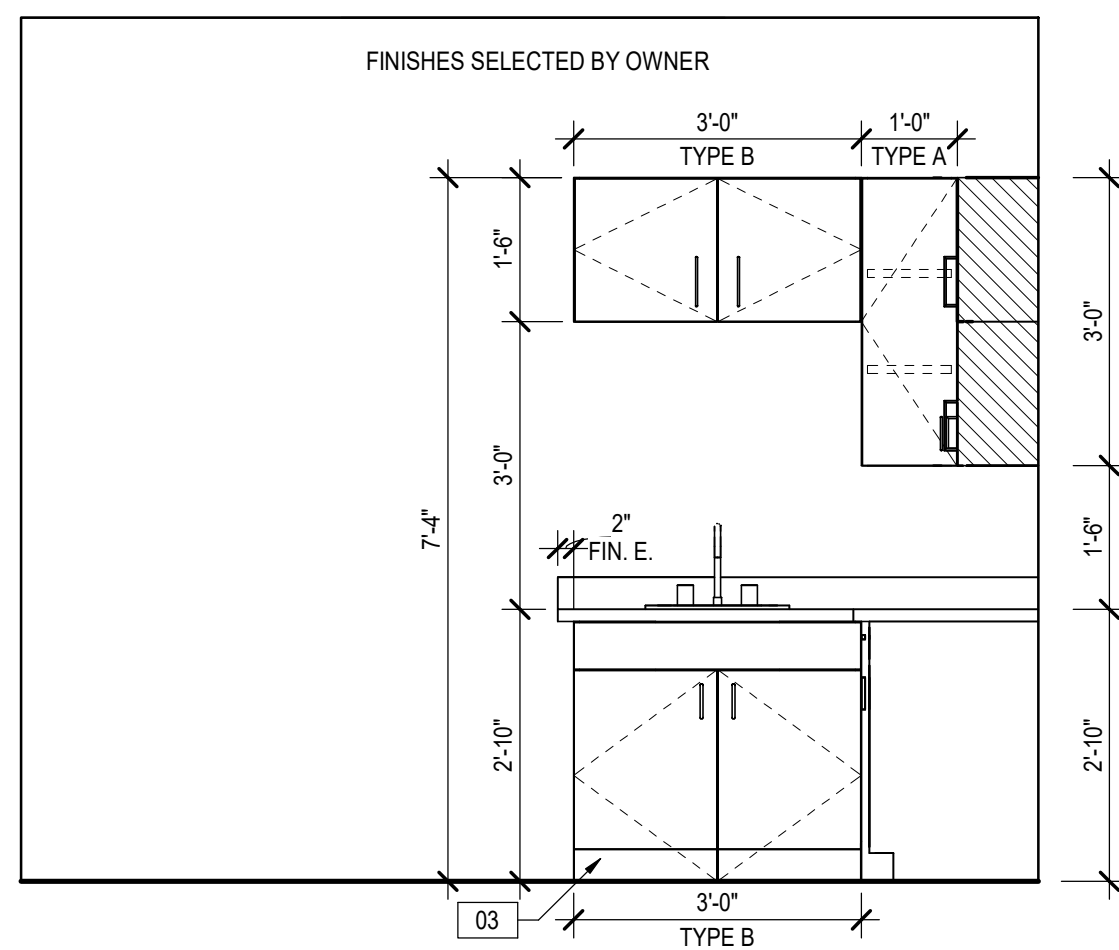
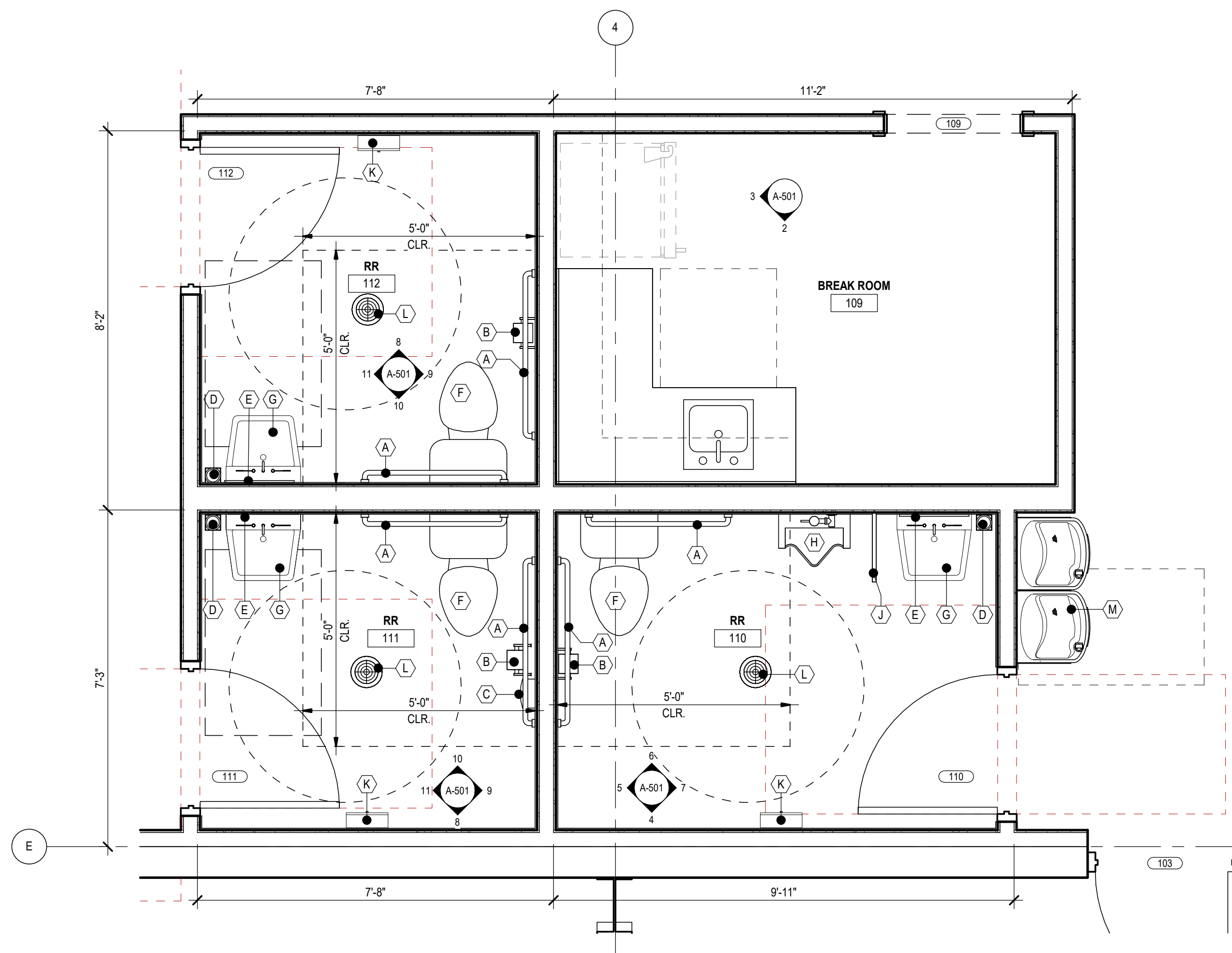
5.01	SCHEDULED CEILING W/ R-19 SOUND BATT INSULATION ABOVE
5.02	SCHEDULED LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS



257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ISSUED FOR
CONSTRUCTION

ALPHA BLDG SET
09-17-2026

**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"**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"

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

REVISIONS	NO.	DATE	ISSUE

DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIAENLARGED
RESTROOM &
BREAKROOM
PLAN & INT.
ELEVATIONS

A-501

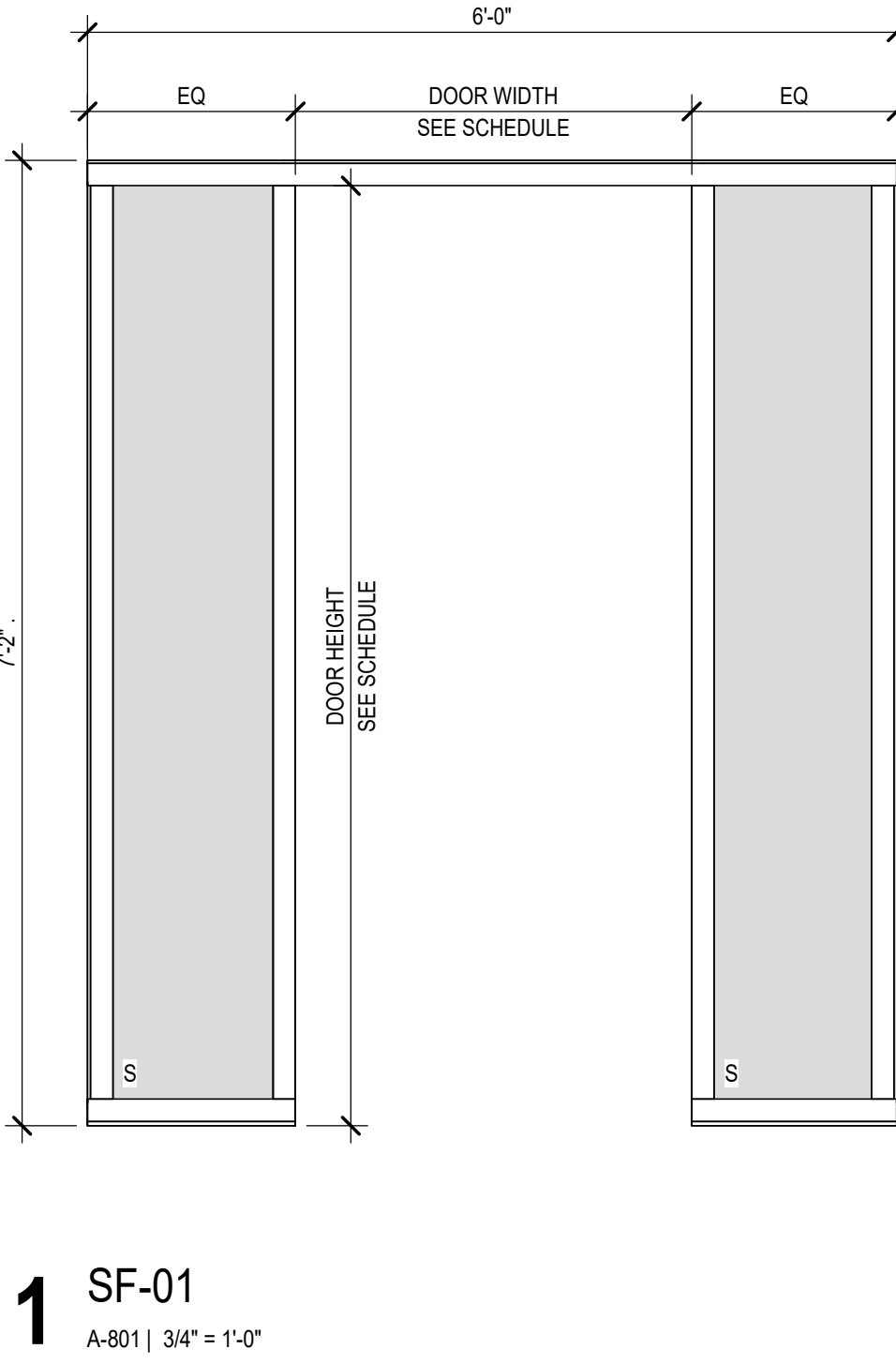
ISSUED FOR
CONSTRUCTION

ALPHA BLDG SET 09-17-2026

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

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

FRAME TYPES



1. 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.
2. CAULK THE JOINT BETWEEN THE FRAME AND WALL, ALL SIDES, WITH PAINTABLE WHITE LATEX CAULK.
3. CONTRACTOR SHALL REVIEW KEYING WITH OWNER PRIOR TO FITTING CYLINDERS. KEY CYLINDERS TO OWNER'S MASTER.
4. ALL NEW DOOR HARDWARE IS TO MATCH THE EXISTING MANUFACTURER, STYLE, AND FINISH. CONTRACTOR IS TO FIELD VERIFY THE EXISTING HARDWARE.
5. DOOR PANELS SHOWN FOR COORDINATION PURPOSES ONLY. COORDINATE FINAL PANEL DESIGN WITH INTERIOR DESIGN SCHEME.
6. LETTER 'T' ON GLAZING INDICATES LOCATION OF SAFETY GLAZING, SEE SCHEDULE FOR LOCATION. SAFETY GLASS TO COMPLY WITH IBC SECTION 2406.
7. ALL GLAZING IN EXTERIOR DOORS TO BE LOW-E CLEAR GLAZING.
8. ALL EXTERIOR DOORS SHALL BE INSULATED.
9. COORDINATE WITH MECHANICAL REQUIREMENTS FOR REQUIRED UNDERCUT IF ANY.

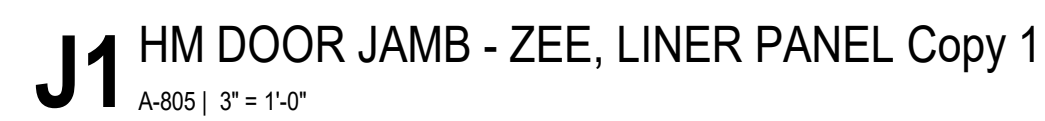
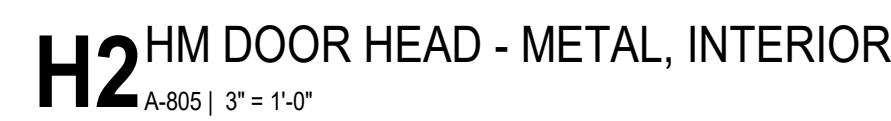
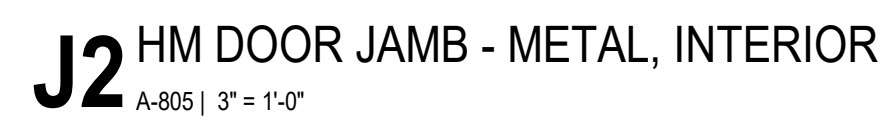
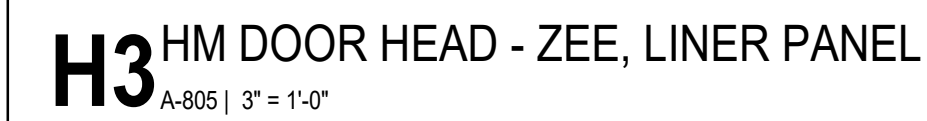
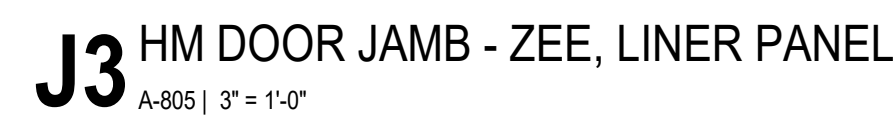
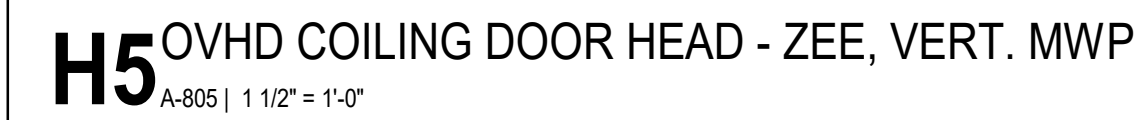
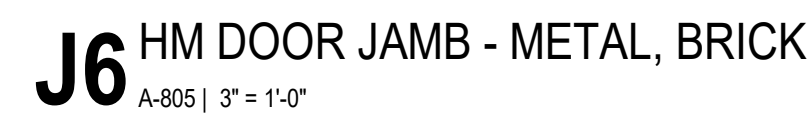
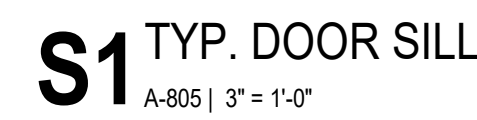
[illegible]

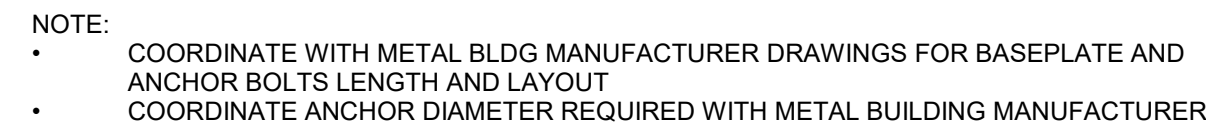


REVISIONS	
NO:	DATE: ISSUE:

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ISSUED FOR
CONSTRUCTION





The image contains two technical drawings of a concrete slab, labeled (a) and (b).

Drawing (a) is titled "CONTROL JOINT". It shows a cross-section of a concrete slab with a control joint. The joint is a vertical gap in the slab, with a width of 1/8" +/- indicated. The joint is filled with saw cut w/joint sealant. The slab is supported by a series of vertical supports. The drawing is labeled with "FILL SAW CUT W/J. SEALANT (SEE SPEC.)", "1/8\" +/-", "SAW CUT CONTROL JOINT TO BE @ SLAB THICKNESS", "CONC. SLAB - SEE PLAN FOR SIZE & REINF.", and "VAPOR BARRIER".

Drawing (b) is titled "KEYED SLAB JOINT". It shows a cross-section of a concrete slab with a keyed slab joint. The joint is a vertical gap in the slab, with a width of 1'-4" indicated. The joint is filled with a keyed slab joint. The slab is supported by a series of vertical supports. The drawing is labeled with "KEYED SLAB JOINT", "CONC. SLAB - SEE PLAN FOR SIZE & REINF.", and "VAPOR BARRIER".

NOTE:

- COORDINATE WITH METAL BLDG MANUFACTURER DRAWINGS FOR BASEPLATE AND ANCHOR BOLTS SIZE AND LAYOUT
- VERIFY ANCHOR DIAMETER REQUIRED WITH METAL BUILDING MANUFACTURER

ASTM F1554 GRADE 36 ANCHORS WITH HEAVY HEX NUT EMBED IN CONCRETE

COORDINATE WITH METAL BLDG MANUFACTURER DRAWINGS FOR BASEPLATE AND ANCHOR BOLTS LENGTH AND LAYOUT COORDINATE ANCHOR DIAMETER REQUIRED WITH METAL BUILDING MANUFACTURER

FACE OF P.E.M.B. COLUMN

PRE-ENGINEERED METAL BLDG. COLUMN

COLUMN ANCHORS, COORDINATE ANCHOR LAYOUT/SIZE WITH PRE-ENGINEERED BUILDING MANUFACTURER

HAIRPIN AROUND ANCHORS

CONCRETE SLAB (SEE PLAN)

VAPOR BARRIER

2'-0"

PAD FOOTING (SEE FOOTING SCHEDULE)

SEE COORRESPONDING CONT. FOOTING DETAIL FOR CONT. T&B REINFORCEMENT

#5's EACH WAY TOP & BOTTOM (SEE SCHEDULE)

3" CLR.

SEE FOOTING SCHEDULE

NOTE:

COORDINATE WITH METAL BLDG MANUFACTURER DRAWINGS FOR BASEPLATE AND ANCHOR BOLTS LENGTH AND LAYOUT COORDINATE ANCHOR DIAMETER REQUIRED WITH METAL BUILDING MANUFACTURER

NOTE:

- COORDINATE WITH METAL BLDG MANUFACTURER DRAWINGS FOR BASEPLATE AND ANCHOR BOLTS LENGTH AND LAYOUT
- COORDINATE ANCHOR DIAMETER REQUIRED WITH METAL BUILDING MANUFACTURER

- 1.) COORDINATE THE EXACT LOCATION AND EXTENT OF ALL PLUMBING PIPES WITH PLUMBING DRAWINGS.
- 2.) DETAIL APPLIES TO PIPES 3' - 0" OR CLOSER TO WALL FOOTINGS
- 3.) DO NOT RUN PIPES BELOW COLUMN FOOTINGS.

4/20/2026 11:52:51 AM
C:\Users\EMILY\OneDrive - Keystone Structural Engineering,
C:\Documents\26149 R24 crowsfeetbreedan.rvt

S5.1

PROJECT ABBREVIATIONS				HVAC SYMBOLS AND ABBREVIATIONS				PIPING SYMBOLS AND ABBREVIATIONS																	
A/E AAV ACD AD AF AFF AFMS AHU AMP APD AS	ARCHITECT / ENGINEER AUTOMATIC AIR VENT AUTOMATIC CONTROL DAMPER ACCESS DOOR AFTER FILTER ABOVE FINISHED FLOOR AIR FLOW MEASURING STATION AIR-HANDLING UNIT AMPERE AIR PRESSURE DROP AIR SEPARATOR	EJ ENT ERC ERP ESP ET ETO EUH EWT EX	EXPANSION JOINT ENTERING ELECTRIC REHEAT COIL ELECTRIC RADIANT PANEL EXTERNAL STATIC PRESSURE EXPANSION TANK ETHYLENE OXIDE ELECTRIC UNIT HEATER ENTERING WATER TEMPERATURE EXISTING	IRH IU JB JL JR KG KG/HR kPa KW KWH	INFRARED HEATER INDUCTION UNIT JUNCTION BOX JUSTIFIED LEFT JUSTIFIED RIGHT KILOGRAM KILOGRAM PER HOUR KILOPASCAL KILOWATT KILOWATT HOUR	PRV PSI PSIA PSIG PTAC QNTY RA RAF RAT RD REA RF RH RHC RLA RO RPM RS/RL RTU RV	PRESSURE REGULATING VALVE POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH – ABSOLUTE POUNDS PER SQUARE INCH – GAGE PACKAGED TERMINAL AIR CONDITIONER QUANTITY RETURN AIR RETURN AIR FAN RETURN AIR TEMPERATURE REFRIGERANT DISCHARGE RELIEF AIR RETURN FAN RELATIVE HUMIDITY REHEAT COIL RUN LOAD AMPERE REVERSE OSMOSIS REVOLUTIONS PER MINUTE REFRIGERANT SUCTION AND REFRIGERANT LIQUID ROOF TOP UNIT RELIEF VALVE	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT) OVAL DUCT SIZE TAG (WIDTH / HEIGHT) ROUND DUCT SIZE TAG (DIAMETER) EXISTING DUCT TAG DUCT BEING DEMOLISHED RECTANGULAR SUPPLY/OUTSIDE AIR DUCT RISE ROUND SUPPLY/OUTSIDE AIR DUCT RISE RECTANGULAR RETURN/TRANSFER AIR DUCT RISE ROUND RETURN/TRANSFER AIR DUCT RISE RECTANGULAR EXHAUST/RELIEF AIR DUCT RISE ROUND EXHAUST/RELIEF AIR DUCT RISE	HOT WATER HEATING SUPPLY HOT WATER HEATING RETURN GLYCOL-WATER HEATING SUPPLY GLYCOL-WATER HEATING RETURN REFRIGERANT SUCTION AND REFRIGERANT LIQUID CHILLED WATER SUPPLY CHILLED WATER RETURN MAKE-UP WATER DRAIN PIPING CONDENSATE DRAIN COMPRESSED AIR NATURAL GAS MAIN FUEL NATURAL GAS IGNITER FUEL FUEL OIL SUPPLY FUEL OIL RETURN SOFTENED WATER DOMESTIC COLD WATER DOMESTIC HOT WATER EXISTING PIPE TAG PIPE SIZE TAG (DIAMETER) PIPING BEING DEMOLISHED																
GRILLES, REGISTERS & DIFFUSERS TAG				SUPPLY DIFFUSER RETURN GRILLE EXHAUST GRILLE (E) LINEAR BAR GRILLE # 48"x2 1/2" 400 TYPE (SEE SCHEDULE) ACTIVE SLOT LENGTH (PLENUM LENGTH) CFM																					
MECHANICAL EQUIPMENT TAGS				EQUIPMENT TAG VAV BOX EQUIPMENT TAG (E)RTU-XX																					
DATA DEVICE TAGS AND ABBREVIATIONS				<table><thead><tr><th>DESCRIPTION</th><th>SYMBOL</th><th>DESCRIPTION</th></tr></thead><tbody><tr><td>CARBON DIOXIDE SENSOR</td><td></td><td>TEMPERATURE & HUMIDITY SENSOR</td></tr><tr><td>CARBON MONOXIDE SENSOR</td><td></td><td>DISPLAY</td></tr><tr><td>NITROGEN DIOXIDE SENSOR</td><td></td><td>THERMOSTAT</td></tr><tr><td>HUMIDITY SENSOR</td><td></td><td>SENSOR</td></tr><tr><td>HUMIDISTAT</td><td></td><td>PRESSURE SENSOR</td></tr></tbody></table>				DESCRIPTION	SYMBOL	DESCRIPTION	CARBON DIOXIDE SENSOR		TEMPERATURE & HUMIDITY SENSOR	CARBON MONOXIDE SENSOR		DISPLAY	NITROGEN DIOXIDE SENSOR		THERMOSTAT	HUMIDITY SENSOR		SENSOR	HUMIDISTAT		PRESSURE SENSOR
DESCRIPTION	SYMBOL	DESCRIPTION																							
CARBON DIOXIDE SENSOR		TEMPERATURE & HUMIDITY SENSOR																							
CARBON MONOXIDE SENSOR		DISPLAY																							
NITROGEN DIOXIDE SENSOR		THERMOSTAT																							
HUMIDITY SENSOR		SENSOR																							
HUMIDISTAT		PRESSURE SENSOR																							
DAMPER TAGS AND ABBREVIATIONS				FIRE DAMPER SMOKE DAMPER AUTOMATIC VOLUME DAMPER MVD BDD FSD MANUAL VOLUME DAMPER BACKDRAFT DAMPER COMBINATION FIRE/SMOKE DAMPER																					
SHEET NOMENCLATURE				<u>SERIES</u> 0 - SYMBOLS AND NOTES 1 - PLAN VIEWS 3 - ELEVATIONS AND SECTIONS 4 - LARGE SCALE - PLANS AND SECTIONS 5 - SCHEMATICS AND DETAILS 6 - SCHEDULES 8 - CONTROLS (S) STEAM (H) HVAC (P) PIPING (D) DEMO MECHANICAL — M P ### SERIES																					
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.																					

ALPHA BLDG SET 09-17-2026

C:\Users\Total Engineers\Documents\M25 TE 26-020 jerryZP7ZQ.rvt

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

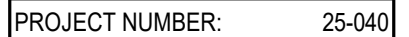
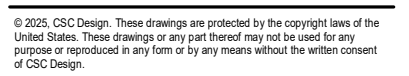
GRILLES, REGISTERS AND DIFFUSERS SCHEDULE								
NOTES:								
1. PROVIDE STANDARD WHITE FINISH.								
2. INSULATE BACK OF DEVICE.								
3. BALANCE AIRFLOW TO QUANTITY SHOWN.								
4. PROVIDE FULL SIZE SHEET METAL PLENUM ON TOP OF GRILLE FOR DUCT CONNECTION.								
MARK	DESCRIPTION	LAYOUT BASIS		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		WEIGHT (LBS)	NOISE CRITERIA (SONES)	NOTES
	MANUFACTURER	MODEL	FAN TYPE	DRIVE TYPE	RPM	AIRFLOW (CFM)	TSP (IN.WG)	VOLTAGE (V)	PHASE			
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		TYPE	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		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-EQUIVALENT FEET.																			
7. PROVIDE LOCKING CAPS FOR OUTSIDE HEAT PUMP/HVAC EQUIPMENT.																			
MARK	DESCRIPTION	SERVES	MANUFACTURER	MODEL NO.	HEAT PUMP HEATING CAPACITY (BTU/Hr)	REFRIGERANT	O.A. TEMPERATURE SUMMER (DB) °F	O.A. TEMPERATURE WINTER (DB) °F	NORMAL CAPACITY (TONS)	SEER2	EER2	UNIT DIMENSIONS			OPERATING WEIGHT (lb)	ELECTRICAL		NOTES	
						TYPE						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	1:2:3:4:5:6:7	

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	SUSPENDED	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	SUSPENDED	910	15.0	0.02	208	1	13	19	22	1:2:3:4:5:6



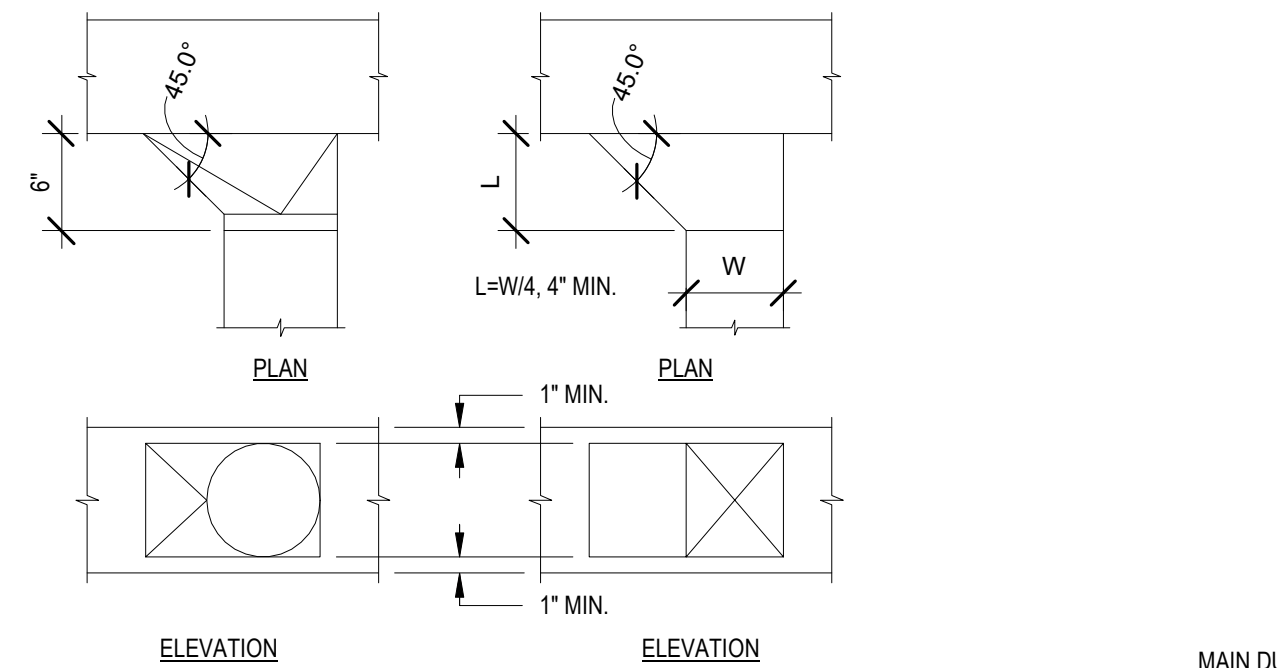
VISIONS
NO: DATE
1 8/18

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

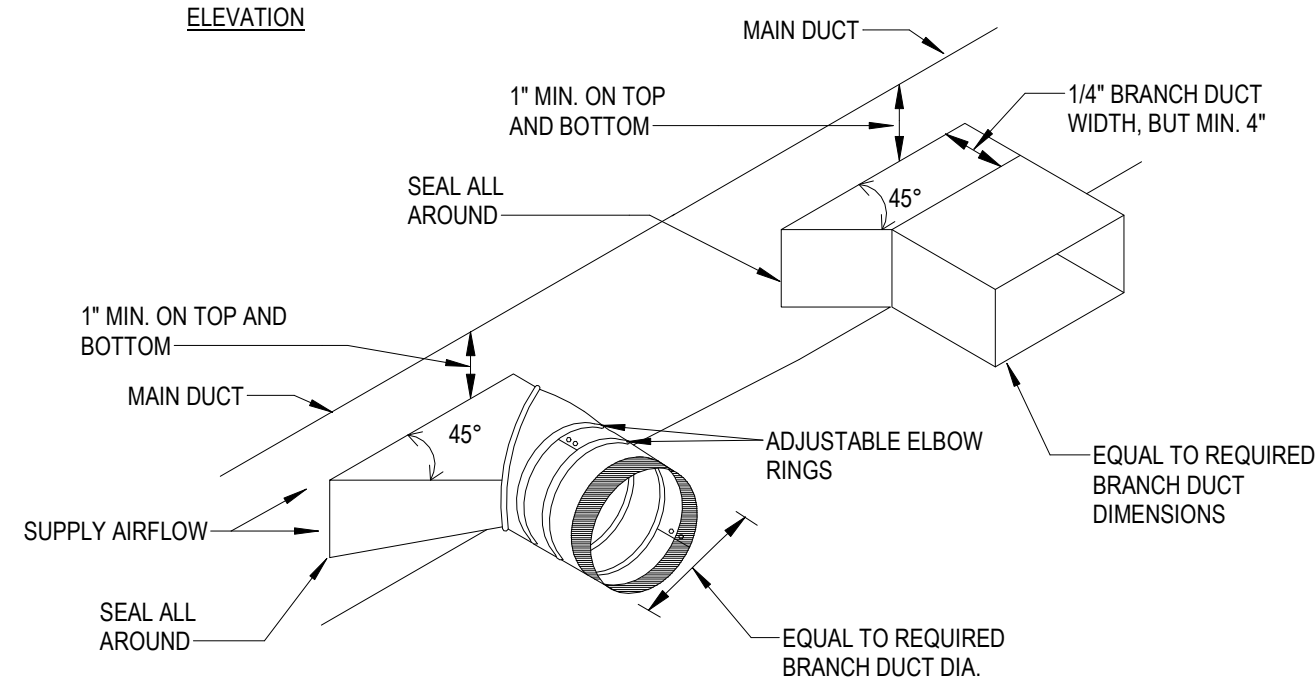
M-003

8/18/2026 11:39:58 AM C:\Users\Total Engineers\Documents\M25_TE-26-020_jerry27220.rvt

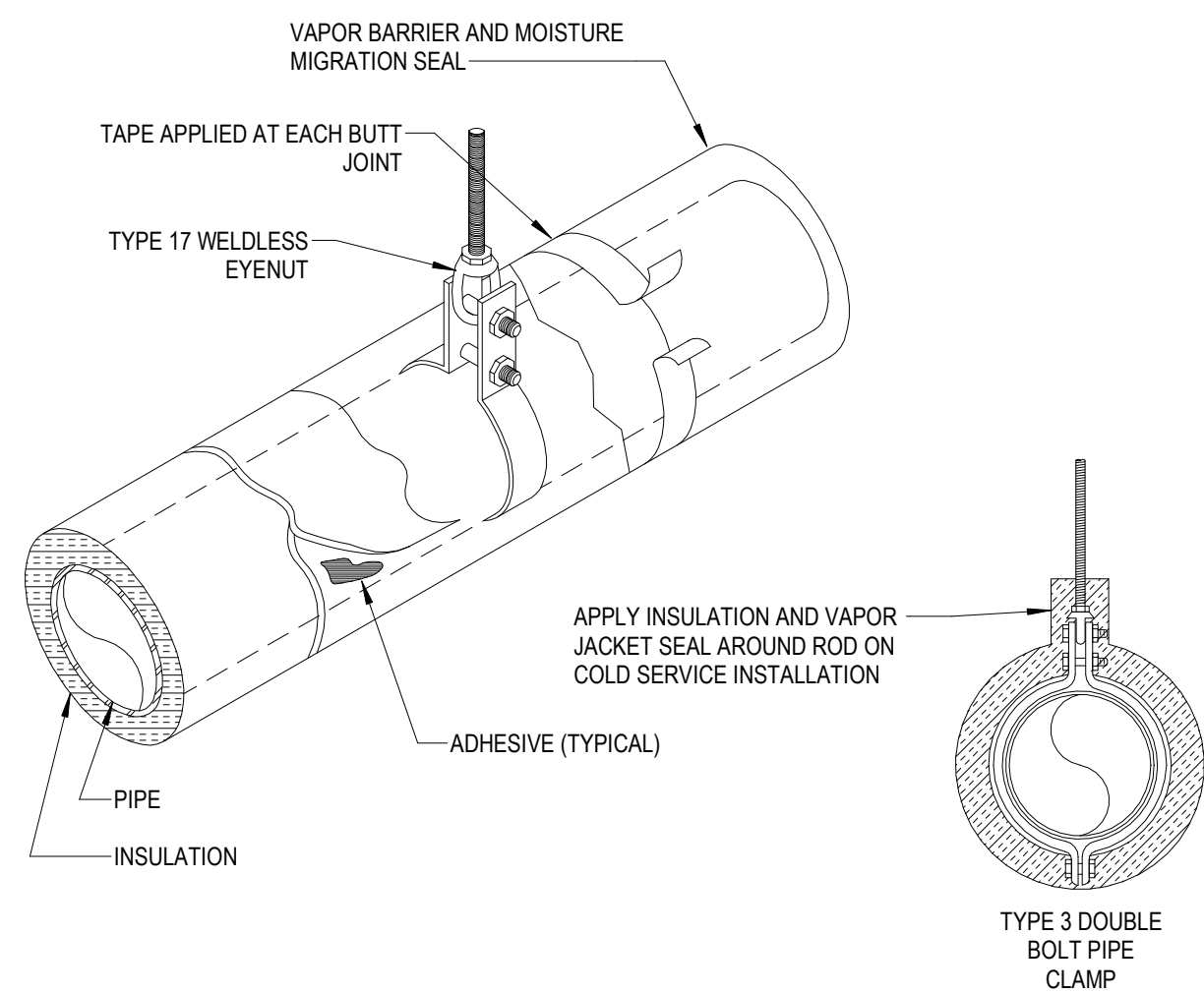
1 SPIN COLLAR FLEXIBLE DUCT CONNECTOR WITH DAMPER - LOW PRESSURE
NOT TO SCALE



4 TYPICAL BRANCH TAKEOFF FITTING DETAIL
NOT TO SCALE



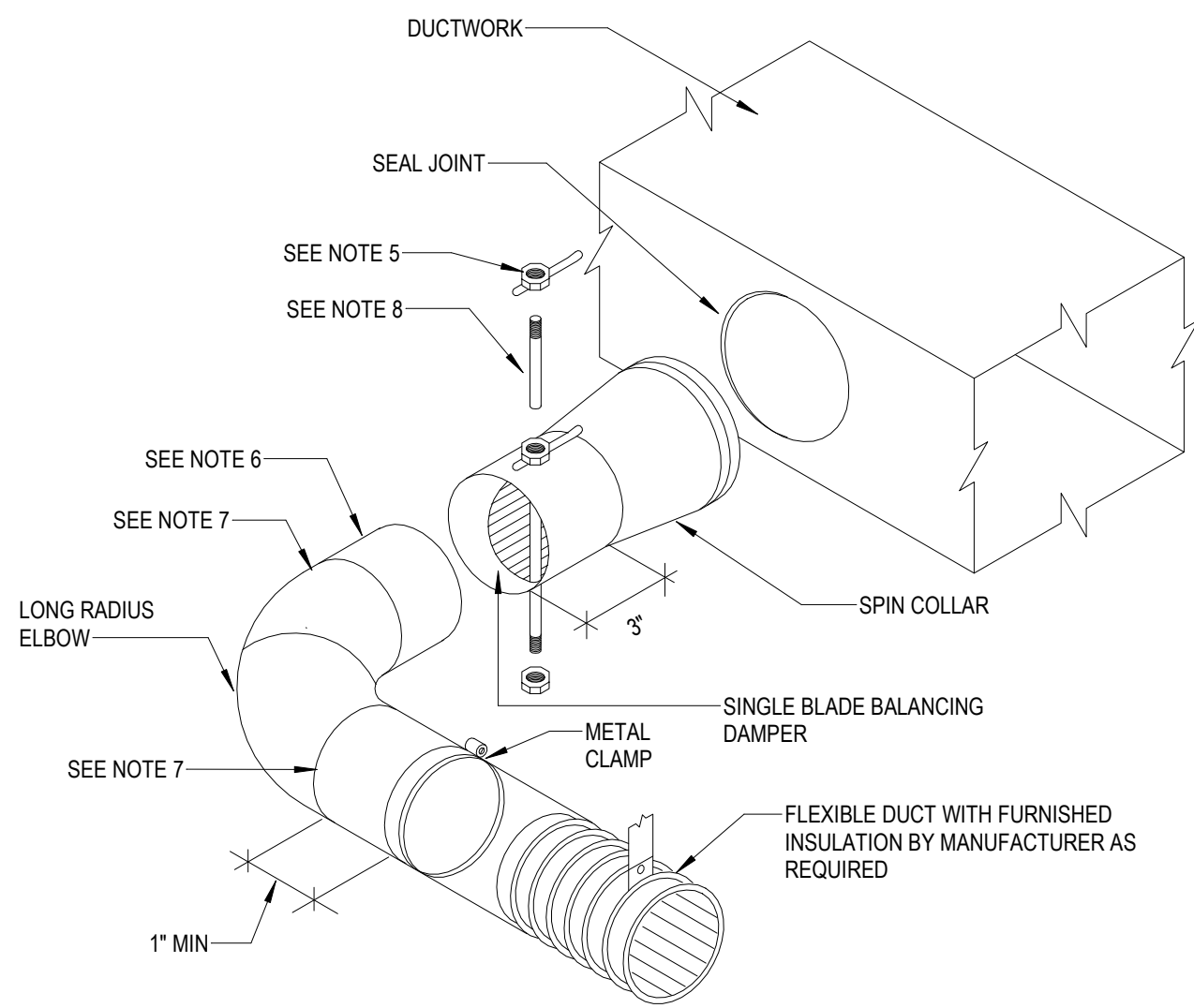
7 PIPE HANGER, INSULATION AND VAPOR JACKET
NOT TO SCALE



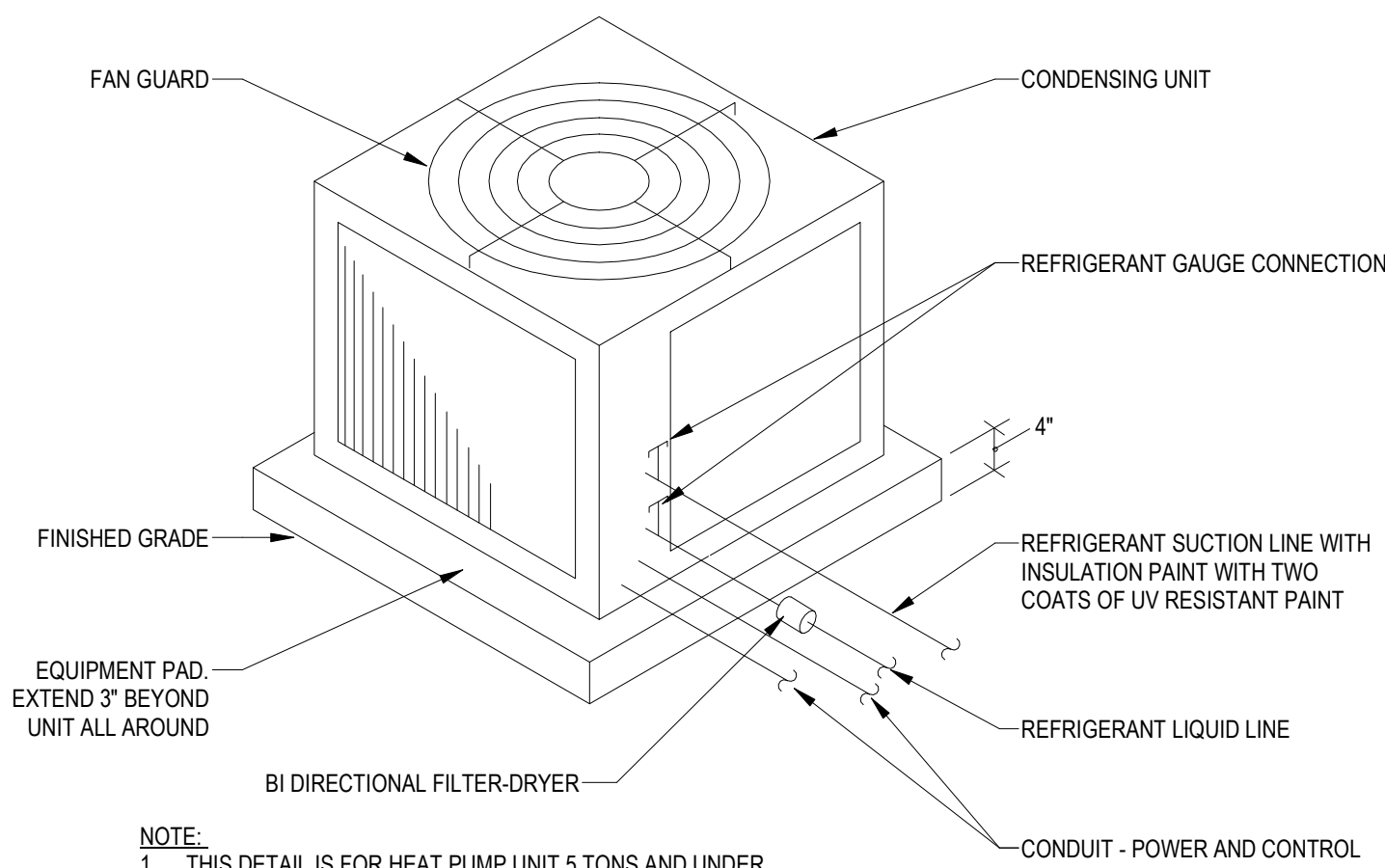
NOTES:

1. SUPPORT DUCTWORK AS REQUIRED.
2. BAND FLEX TO COLLAR 1/2" MINIMUM FROM OUTBOARD END OF COLLAR.
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TAB CONTRACTOR.
4. PULL FLEXIBLE DUCT INSULATION UP TO END OF SPIN COLLAR AT EDGE OF RECTANGULAR DUCTWORK; SEAL VAPOR BARRIER WITH GREY TAPE TO PREVENT MOISTURE MIGRATION.
5. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION, PULL TO EDGE OF DUCTWORK AS REQUIRED AND SEAL TO AFFECT VAPOR BARRIER.
6. POP RIVET OR SHEET METAL SCREWS, MINIMUM 3 EACH AT 120° INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE WITH DAMPER.
7. TAPE AND SEAL ALL JOINTS TO PREVENT LEAKAGE.
8. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY).

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



8 CONDENSATE DRAIN DETAIL
NOT TO SCALE



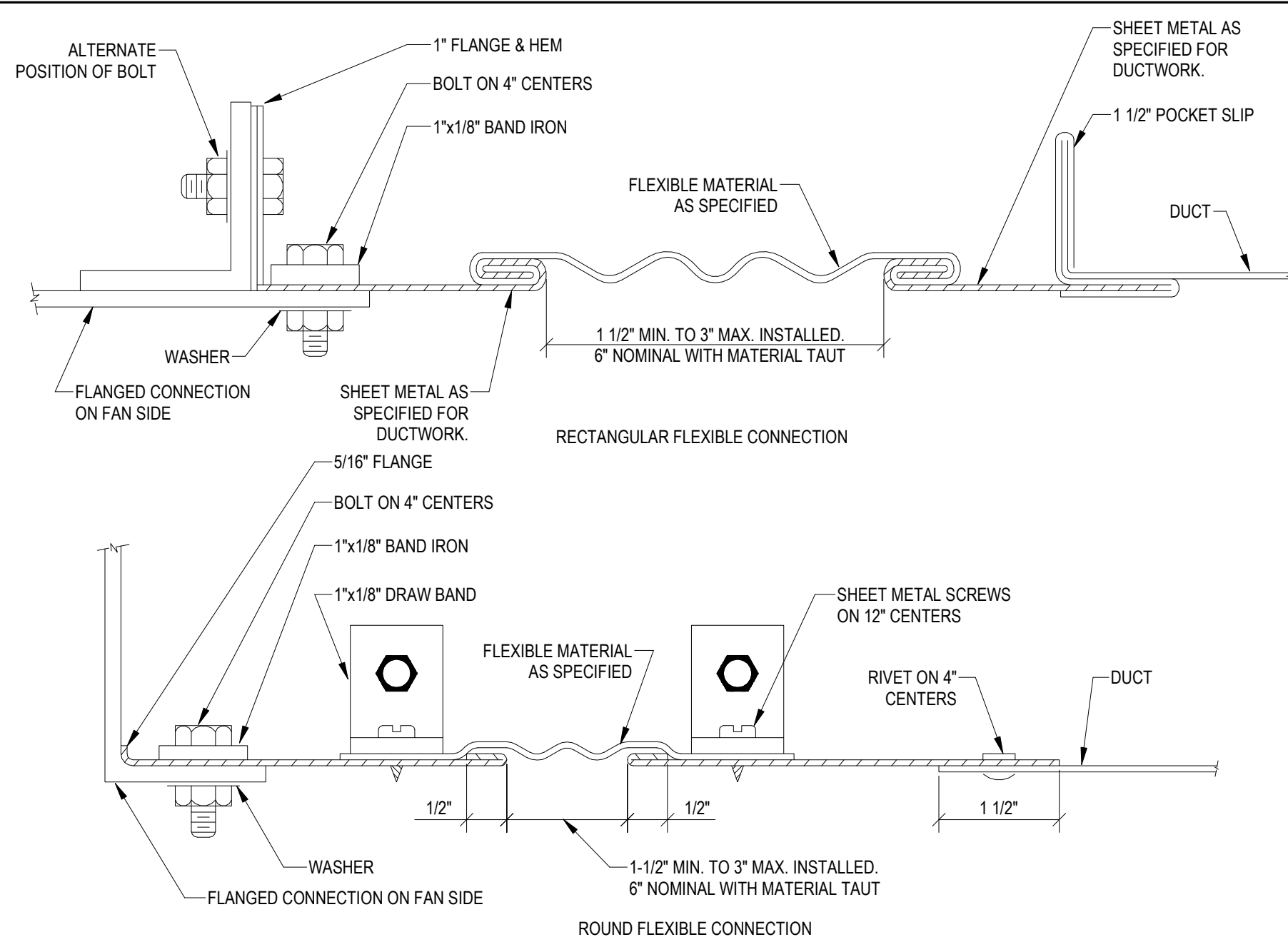
5 AIR COOLED CONDENSING UNIT SLAB MOUNTED
NOT TO SCALE

- NOTE:
1. THIS DETAIL IS FOR HEAT PUMP UNIT 5 TONS AND UNDER.
 2. PROVIDE 4"x4" WELDED WIRE MESH REINFORCING AT CENTER LINE FOR THE CONCRETE PAD.
 3. PAD MAY BE PREFABRICATED DIVERSITECH ULTRALITE EQUIPMENT PAD OR EQUIVALENT.

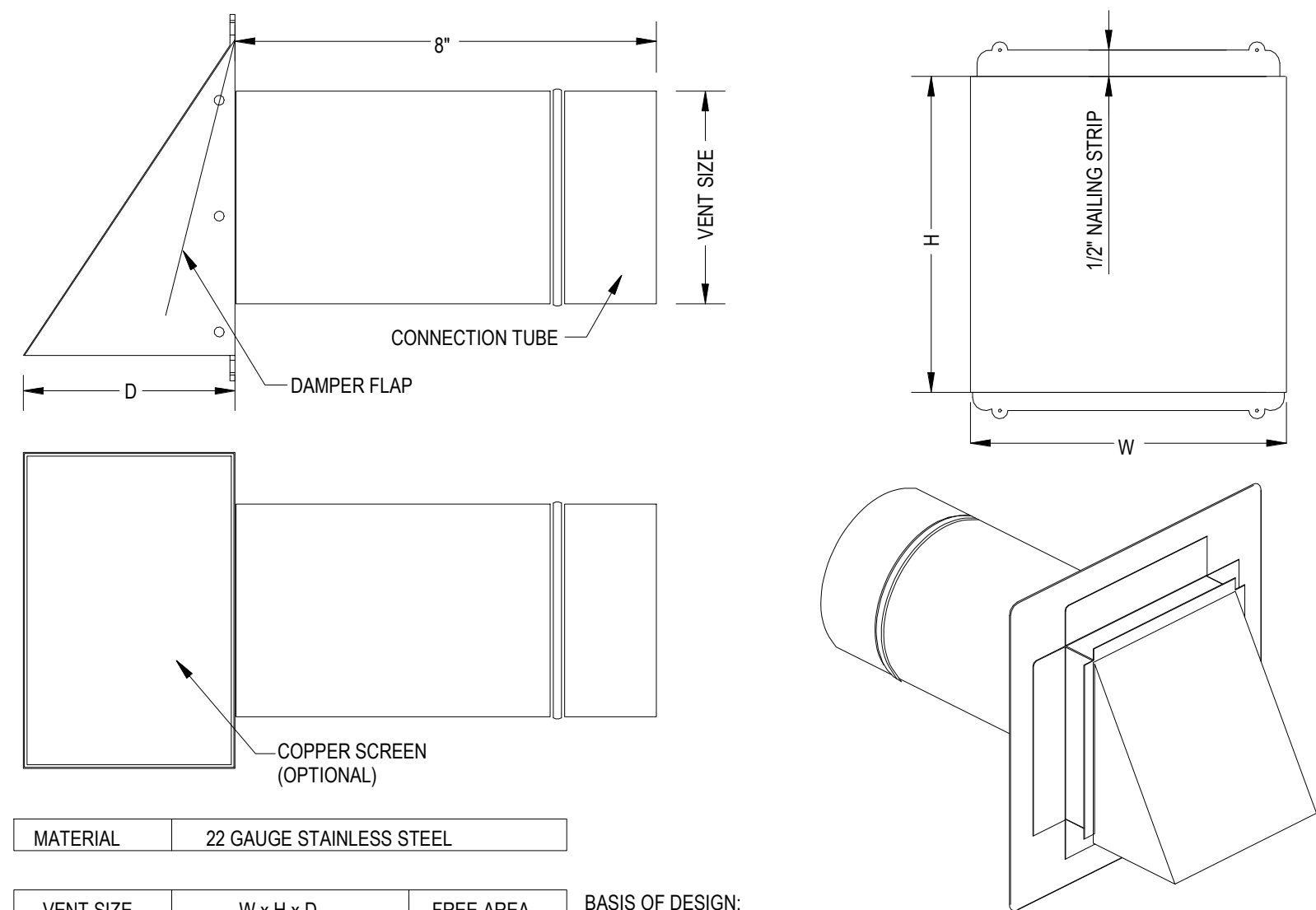
NOTES:

1. SUPPORT DUCTWORK AS REQUIRED.
2. BAND FLEX TO COLLAR 1/2" MINIMUM FROM OUTBOARD END OF COLLAR.
3. INSTALL SPIN COLLAR DAMPER IN OPEN POSITION; FINAL ADJUSTMENT BY TAB CONTRACTOR.
4. PULL FLEXIBLE DUCT INSULATION UP TO END OF SPIN COLLAR AT EDGE OF RECTANGULAR DUCTWORK; SEAL VAPOR BARRIER WITH GREY TAPE TO PREVENT MOISTURE MIGRATION.
5. PROVIDE EXTENSION RODS TO ACCOMMODATE INSULATION, PULL TO EDGE OF DUCTWORK AS REQUIRED AND SEAL TO EFFECT VAPOR BARRIER.
6. POP RIVET OR SHEET METAL SCREWS, MINIMUM 3 EACH AT 120° INTERVALS, CONNECTING STOVEPIPE TO COLLAR. ENSURE RIVETS OR SCREWS DO NOT INTERFERE WITH DAMPER.
7. TAPE AND SEAL ALL JOINTS TO PREVENT LEAKAGE.
8. INSTALL LOCKING QUADRANT AND HANDLE ON BOTTOM OF DUCT FOR EASY SERVICE (SHOWN ON TOP FOR EASE OF ILLUSTRATION ONLY).

3 EQUIPMENT FLEXIBLE CONNECTION RECTANGULAR/ROUND
NOT TO SCALE



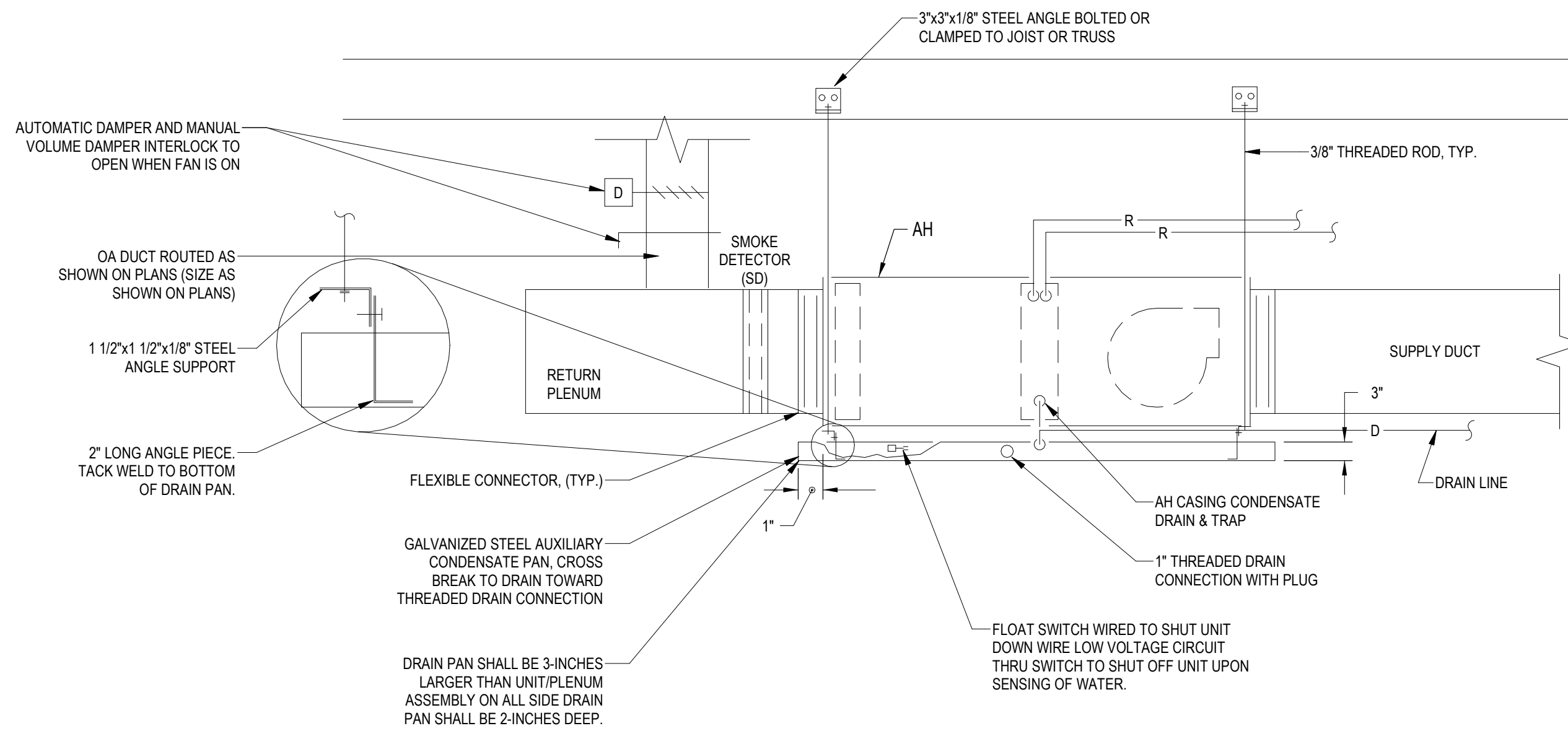
6 T-STAT DETAIL
NOT TO SCALE



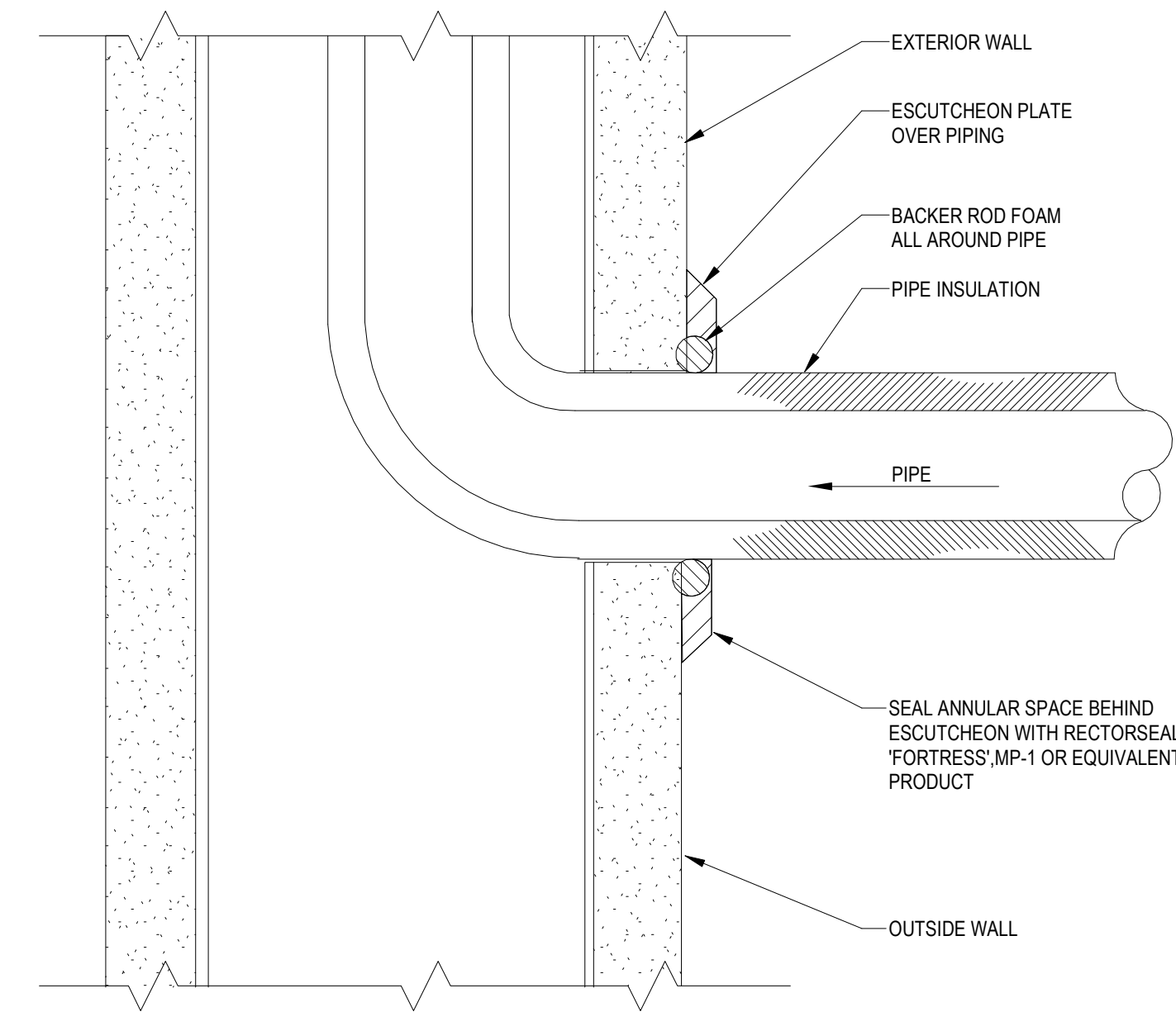
MATERIAL 22 GAUGE STAINLESS STEEL		
VENT SIZE	W x H x D	FREE AREA
4"	6"x6"x4"	24 in²
6"	9 1/4"x9 1/4"x6 1/4"	57 in²
8"	10 1/4"x10 1/4"x7"	71 in²
10"	11 1/2"x11 1/2"x7 3/4"	88 in²
12"	14"x14"x9 1/4"	128 in²

BASIS OF DESIGN:
THUNDERBIRD PRODUCTS
1148 NORTH MARSHALL
AVE. EL CAJON, CA 92020
TEL: (800) 658-2473 FAX:
(619) 448-9072

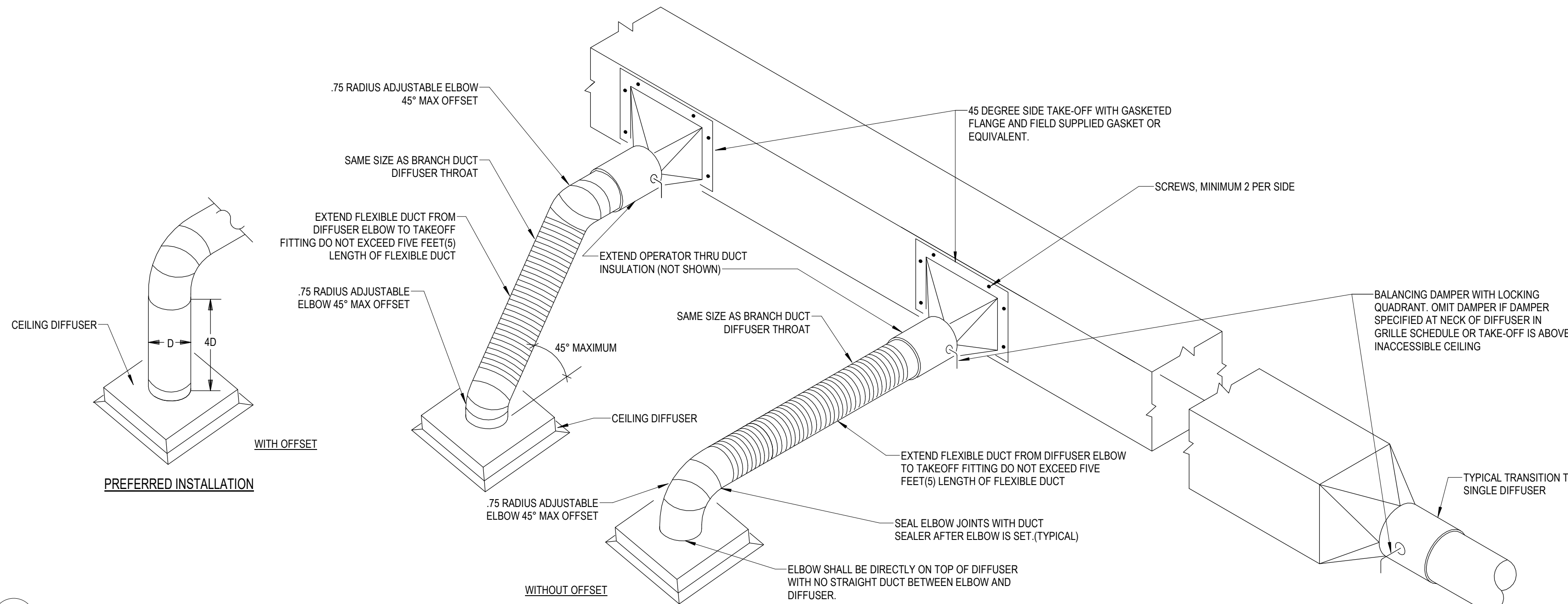
9 VENT CAP AT EXTERIOR WALL DETAIL
NOT TO SCALE



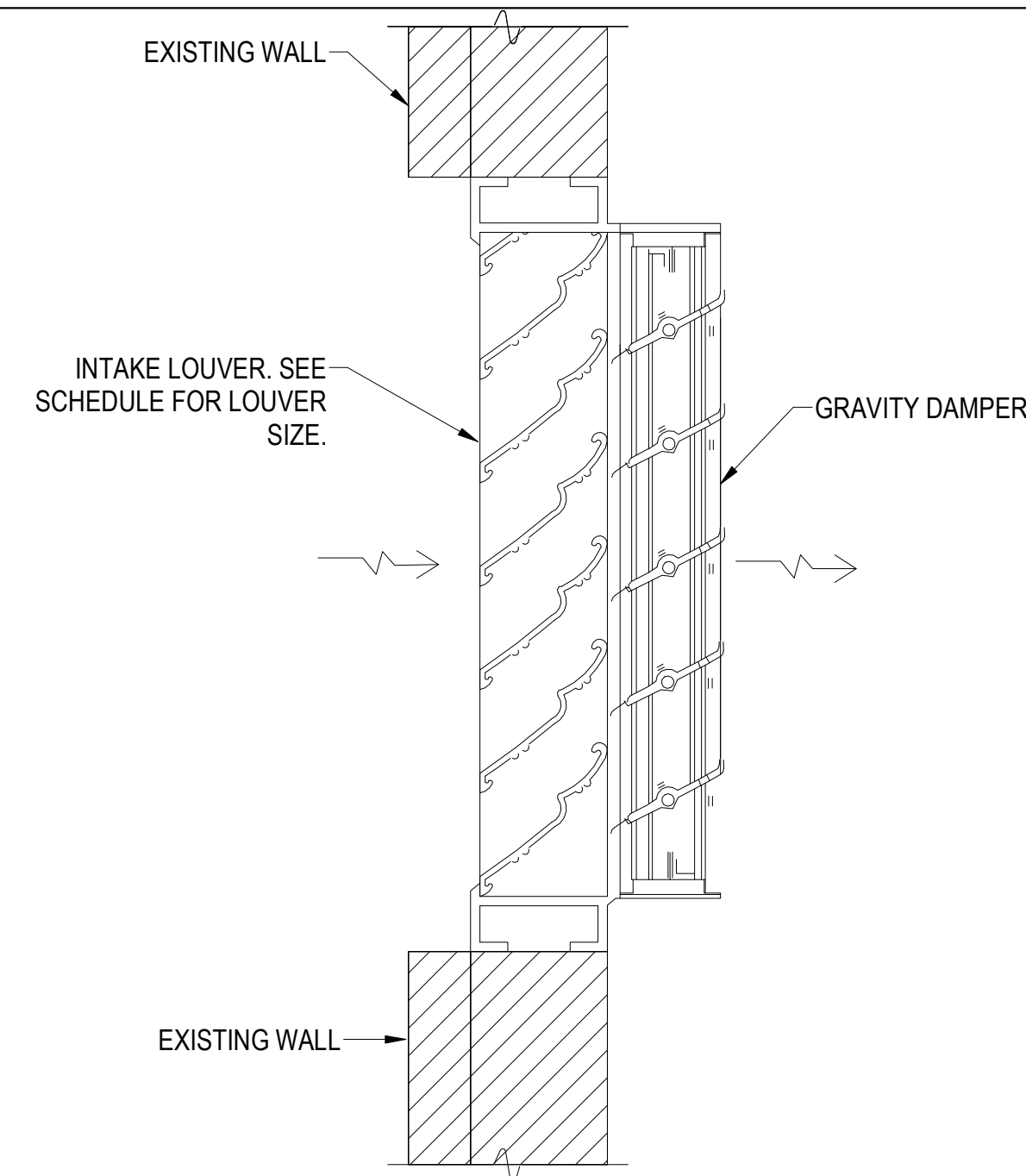
1 AHU WITH AUXILIARY CONDENSATE PAN
NOT TO SCALE



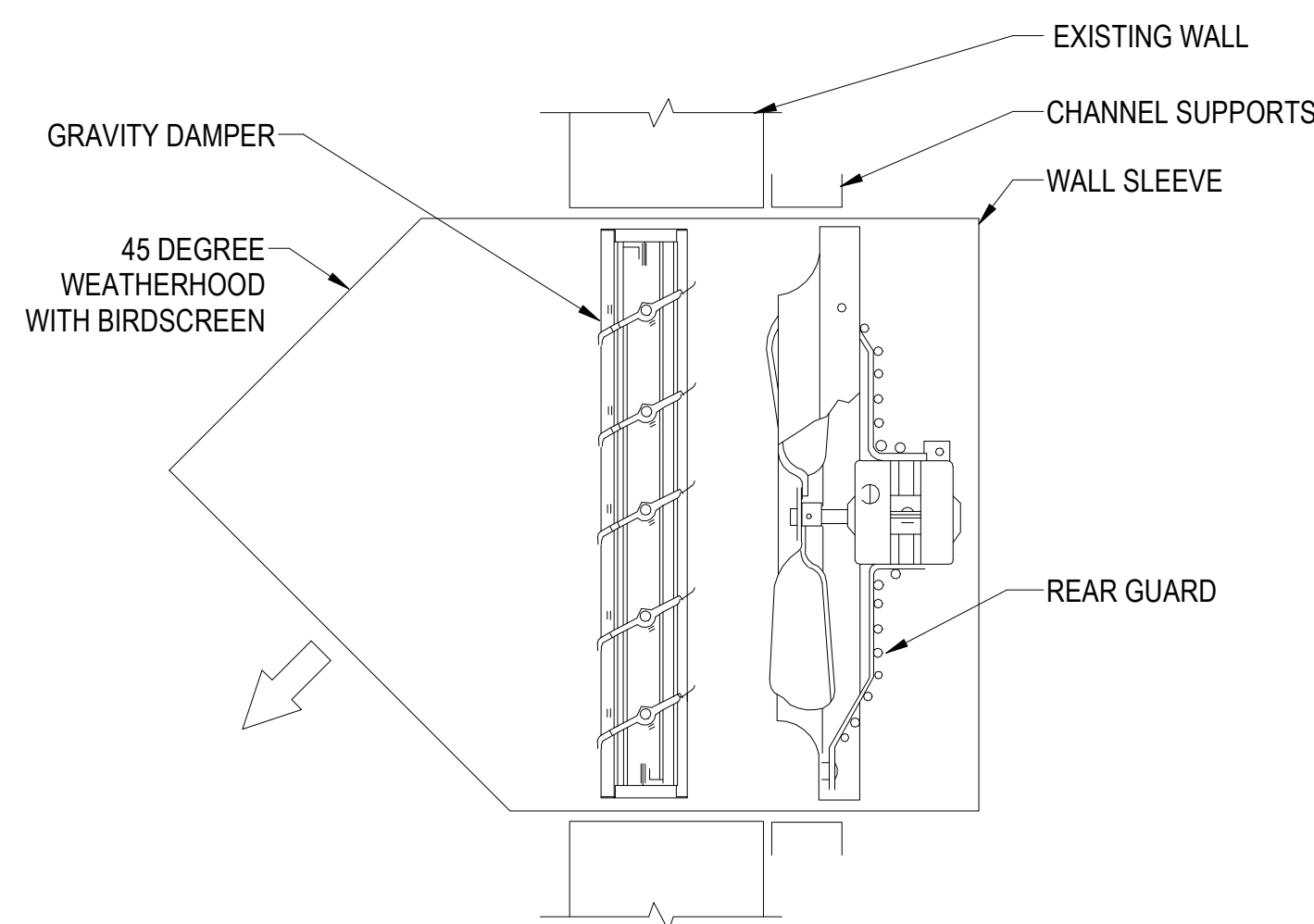
2 REFRIGERANT PIPE SLEEVE THROUGH WALL DETAIL
NOT TO SCALE



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	ADDED NOTE TO SCHEDULE
	1	8/18/2026		

DRYWALL WAREHOUSE HWY 81

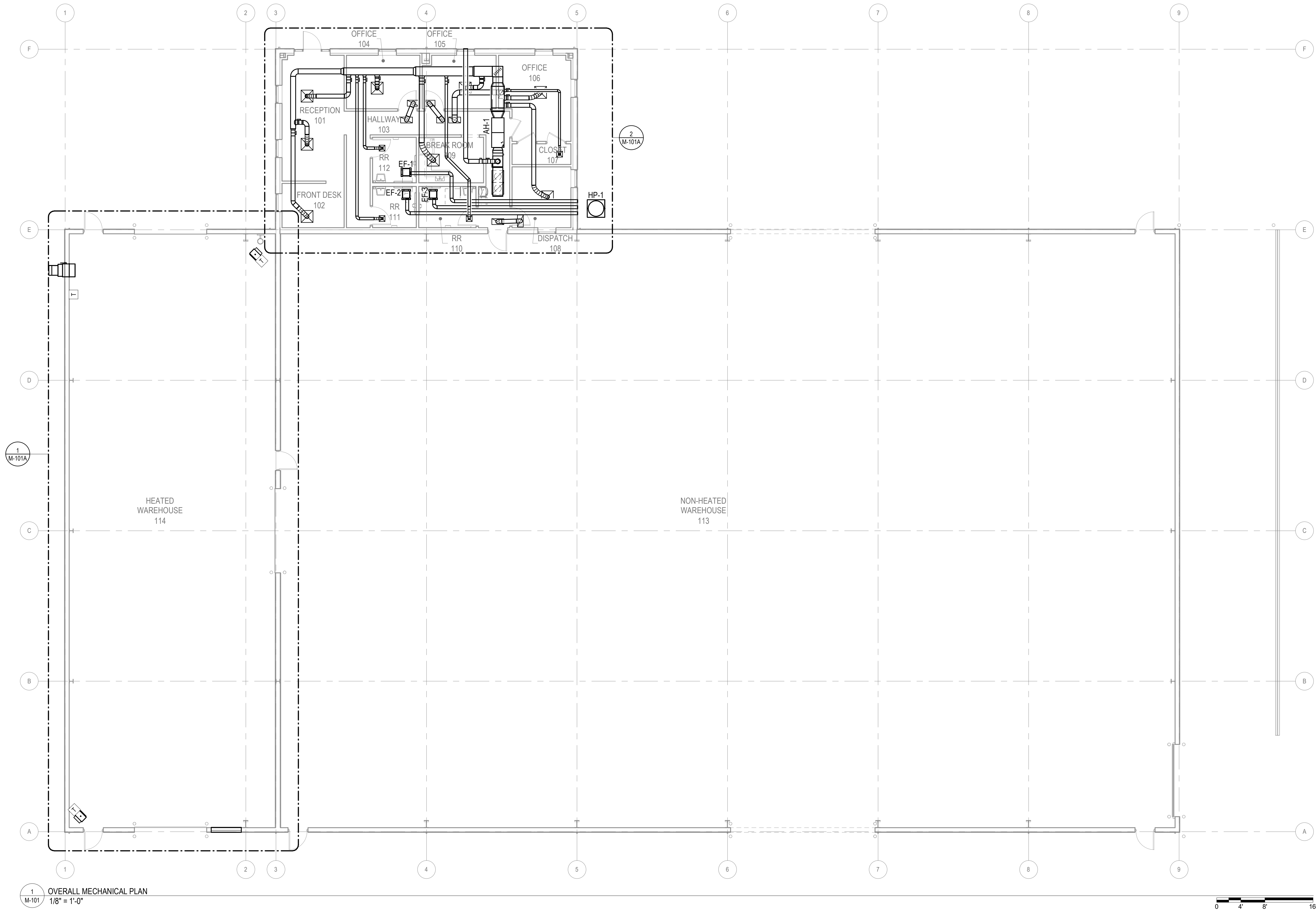
257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

MECHANICAL
DETAILS

M-005

ALPHA BLDG SET 09-17-2026

8/18/2026 11:40:00 AM C:\Users\Total Engineers\Documents\M25_TE-26-020_jerry2720.rvt



ALPHA BLDG SET 09-17-2026

REVISIONS	
NO.	DATE
1	8/18/2026

ISSUE	
NO.	DATE
1	8/18/2026

ADDED NOTE TO SCHEDULE	
NO.	DATE
1	8/18/2026

PROJECT NUMBER: 25-040

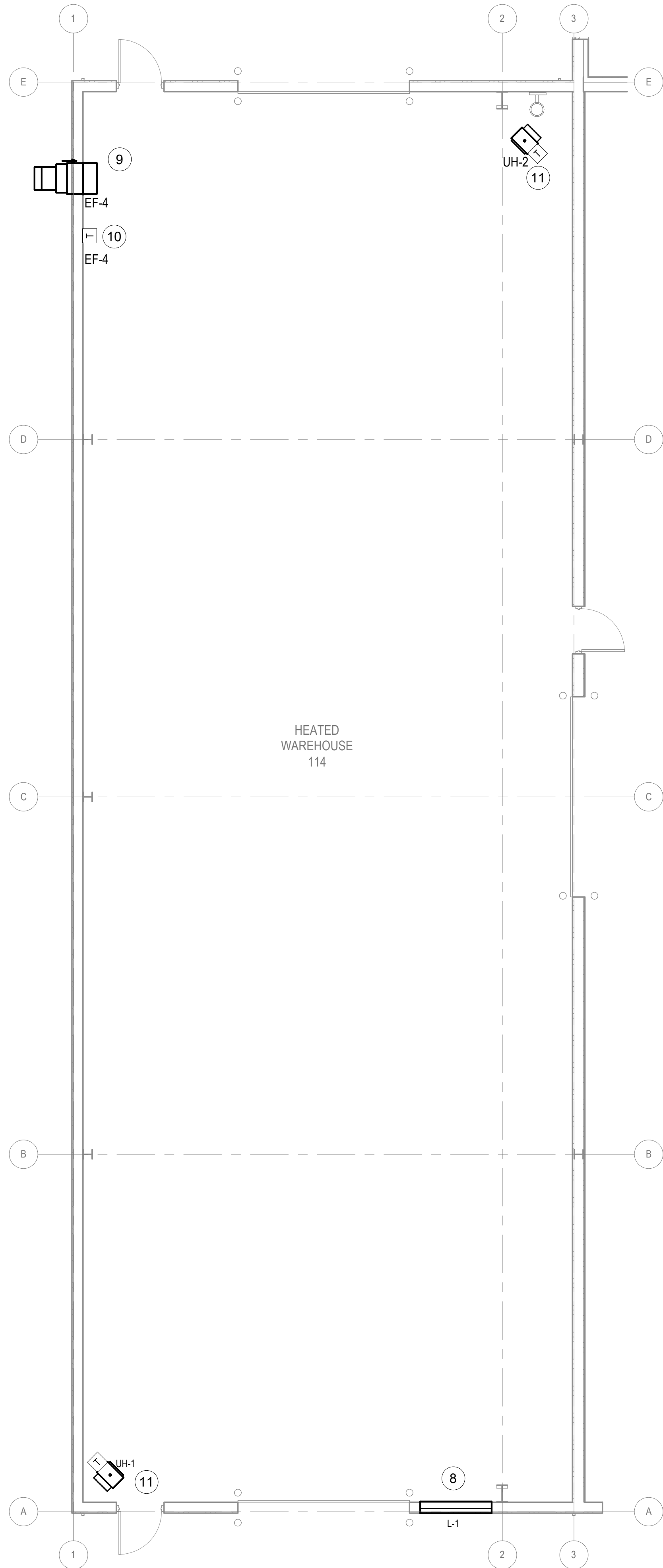
257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

DRYWALL WAREHOUSE HWY 81

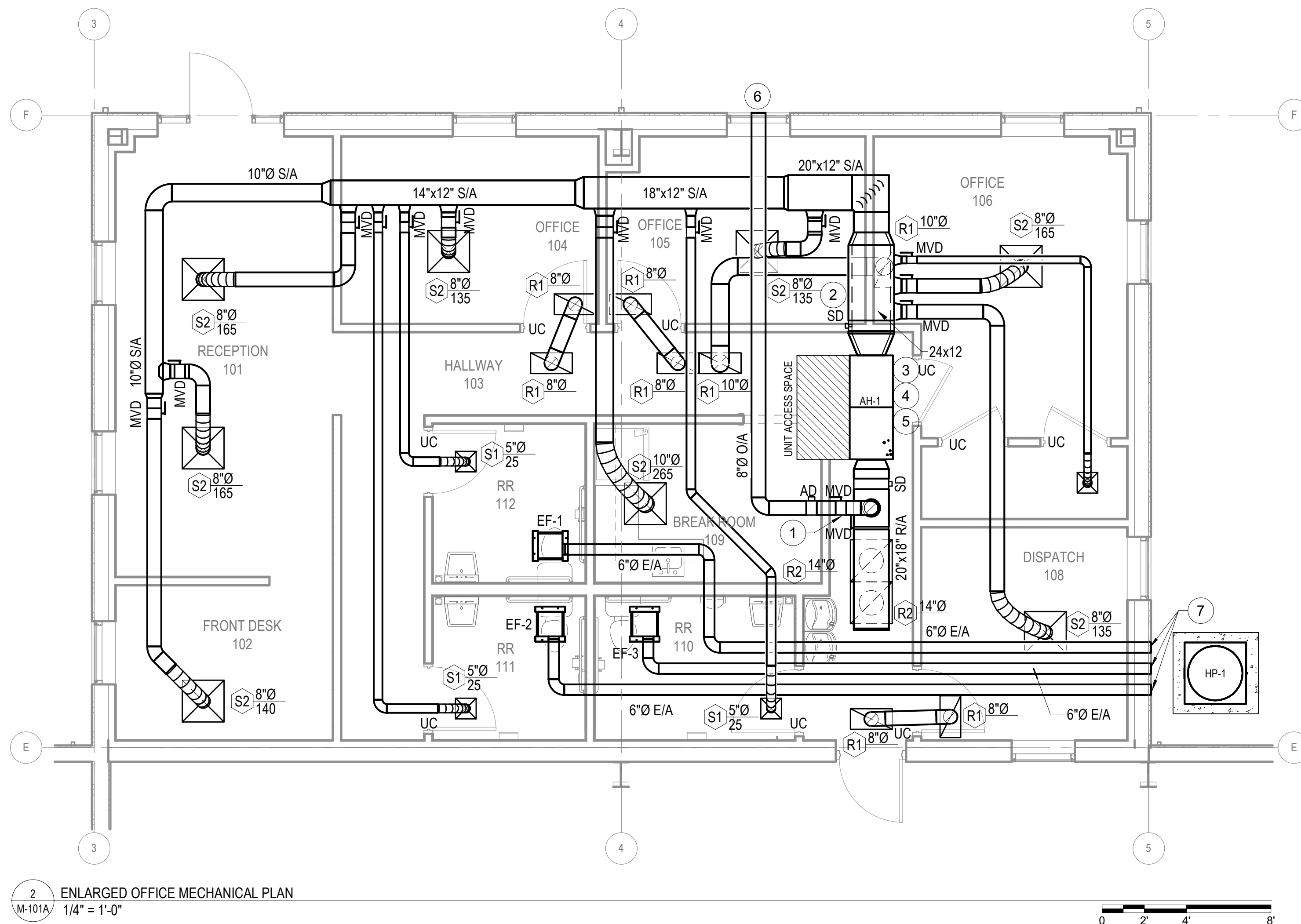
OVERALL
MECHANICAL
PLAN

M-101

8/18/2026 11:40:01 AM C:\Users\Total Engineers\Documents\M25_TE-26-020_jerry2722.rvt



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



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

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 CONDESATE AWAY FROM EXTERIRO WALL. PROVIDE SPLASHBLOCK AT DISCHARGE.
6	8" OUT SIDE 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.. CORRORDINATE 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.. CORRORDINATE WITH EXISTING BUILDING STRUCTURE.

REVISIONS	
NO.	DATE
1	8/18/2026
ISSUE	
ADDED NOTE TO SCHEDULE	
PROJECT NUMBER: 25-040	

DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ENLARGED
OFFICE
MECHANICAL
PLAN

M-101A

ALPHA BLDG SET 09-17-2026

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 should 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:

- Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
- 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:
 - Flush piping system with clean, potable water until dirty water does not appear at outlets.
 - Fill and isolate system according to either of the following:
 - 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.
 - 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.
 - Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
 - Repeat procedures if biological examination shows contamination.
 - Submit water samples in sterile bottles to authorities having jurisdiction.
- Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
- 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:

- Ball: Spears CPVC True Union.
- 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-psig 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 confirmed 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 fecplates, couplings gaskets, and feet; bolts and hardware matching fixture. Include additional extension coupling, fecplate, 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 unconnected 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 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 (SWVT) 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.

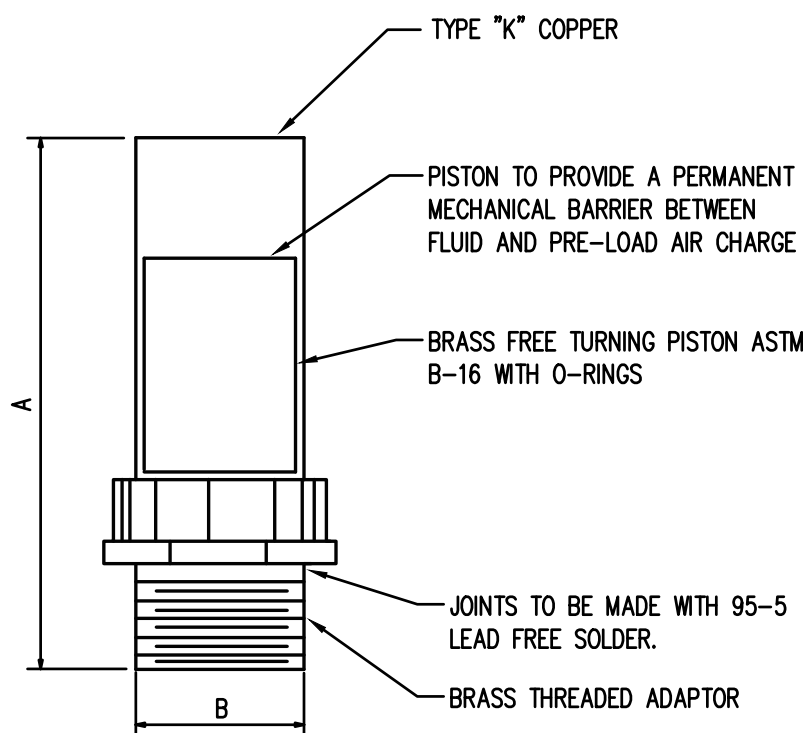
Approved manufactures: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grahe, 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, Flat
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 215AA.104 WATER CLOSET. CENTOCO 500STSCSS SEAT	
WC2	TANK TYPE ADA WATER CLOSET-RIGHT HAND TRIP LEVER	3"	3"	1/2"		1/2"		AMERICAN STANDARD 215AA.105 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 186-0.125 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.	

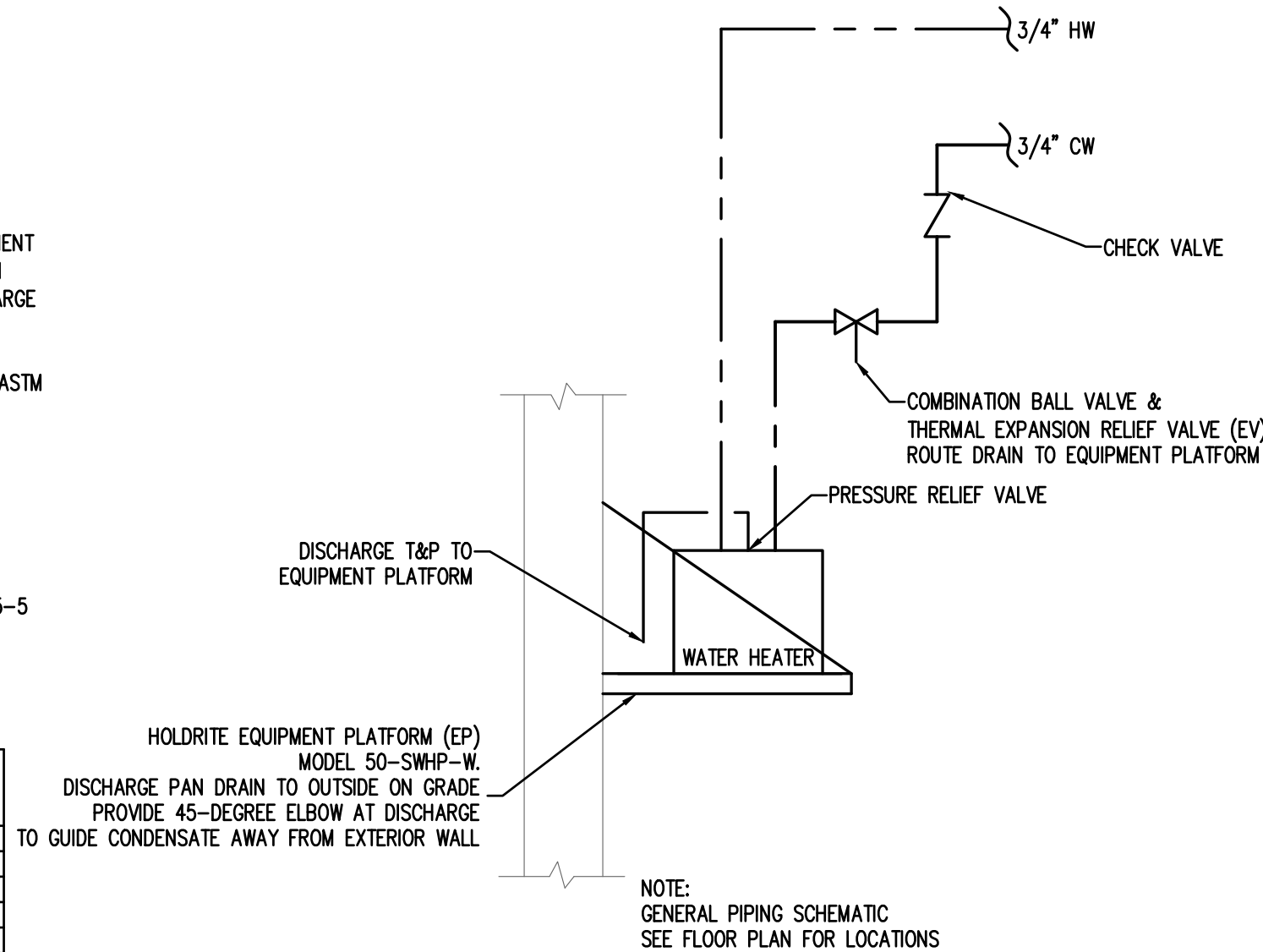
WATER HEATER & TANK SCHEDULE									
MARK	MANUFACTURER	MODEL NUMBER	TYPE	GPH @100° F RISE	GALLON	KW	PHASE	VOLTAGE	
WH	A.O. SMITH	ENLB-40	RESIDENTIAL LOWBOY ELECTRIC TANK TYPE	21	38	4.5	1	208	
EV	WATTS	LFBRVM1	COMBINATION BALL VALVE AND RELIEF VALVE						

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



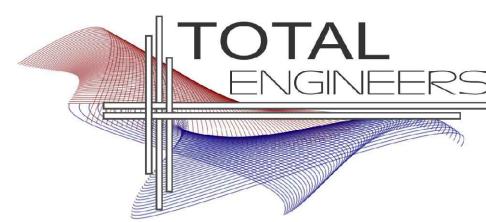
PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

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



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

ALPHA BLDG SET 09-17-2026



169 New Street, Macon, GA 31201
(478)741-4632 • T.E. project # 26-20
www.totalengineers.com
GA COA NO # PEO09195 EXP: 06/30/2026

REGISTERED
ENGINEER
KRUNAL M PATEL
No. PEO36664
4-24-2026

PROJECT NUMBER: 25-038

ISSUE:

REVISIONS:

NO. DATE:

DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY,
GEORGIA

PLUMBING
SCHEDULES &
SPECIFICATIONS

P-0.1

SCHEMATIC DESIGN

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 ft2 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.
- 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 or 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 1B681
- 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–OTS
- 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 97SD.
- c. United; Product 125S.
- d. Fairbanks; Product 4691–3.

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 98SD.
- c. United; Product 126S.
- d. Fairbanks; Product 4691–3.

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

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., NAP300 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.
- L. Pipe Hangers and Supports:
1. Install hangers to provide minimum 1/2 inch space between finished covering and adjacent work.
2. Place hangers within 12 inches of each horizontal elbow.
3. Use hangers with 1–1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.
4. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping.
5. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.
- M. Slope piping and arrange systems to drain at low points. Use eccentric reducers to maintain top of pipe level.
- N. Prepare pipe, fittings, supports, and accessories for finish painting. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
- O. Do not penetrate building structural members unless indicated.
- P. Provide sleeves when penetrating floors and walls. Seal pipe and sleeve penetrations to achieve fire resistance equivalent to fire separation required.
- Q. When installing more than one piping system material, ensure system components are compatible and joined to ensure the integrity of the system. Provide necessary joining fittings. Ensure flanges, union, and couplings for service are consistently provided.
- R. 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.
- S. Install valves with stems upright or horizontal, not inverted. Remove protective coatings prior to installation.
- T. 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.
- U. Provide drain valves at main shut–off valves, low points of piping and apparatus.

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.
- 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. 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.

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.
- 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: Chrome plated.
2. Escutcheon Plate Finish: Chrome plated.
3. Quick response Glass bulb type temperature rated for specific area hazard.

- E. 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.

- 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 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.

- H. Guards: Finish to match sprinkler finish.

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, Craker 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.

- I. Locate outside alarm gong on building wall at piping entrance to building.
- J. Place pipe runs to minimize obstruction to other work.
- K. Place piping in concealed spaces above finished ceilings.
- L. Center sprinklers in two directions in ceiling tile and provide piping offsets as required.
- M. Apply masking tape or paper cover to ensure concealed sprinklers, cover plates, and sprinkler escutcheons do not receive field point finish. Remove after painting. Replace painted sprinklers.
- N. Where sprinklers are required under rectangular duct, the centerline of the sprinkler shall be minimum 6" under duct
- O. Install air compressor on vibration isolators.
- P. Flush entire piping system of foreign matter.
- Q. Hydrostatically test entire system.
- R. Require test be witnessed by Fire Marshall.
- S. All drain piping shall discharge to the outside 6" maximum above grade unless noted otherwise.
- T. Where sprinklers are required under oval or round duct, the centerline of the sprinkler shall be under the centerline of the duct.
- 3.2 INTERFACE WITH OTHER PRODUCTS
- A. Ensure required tamper and flow devices are installed and connected as required to fire alarm system including but not limited to Floor control valves, alarm check valve, elevator shaft isolation valve, Post Indicator Valve (PIV) and backflow device valves.

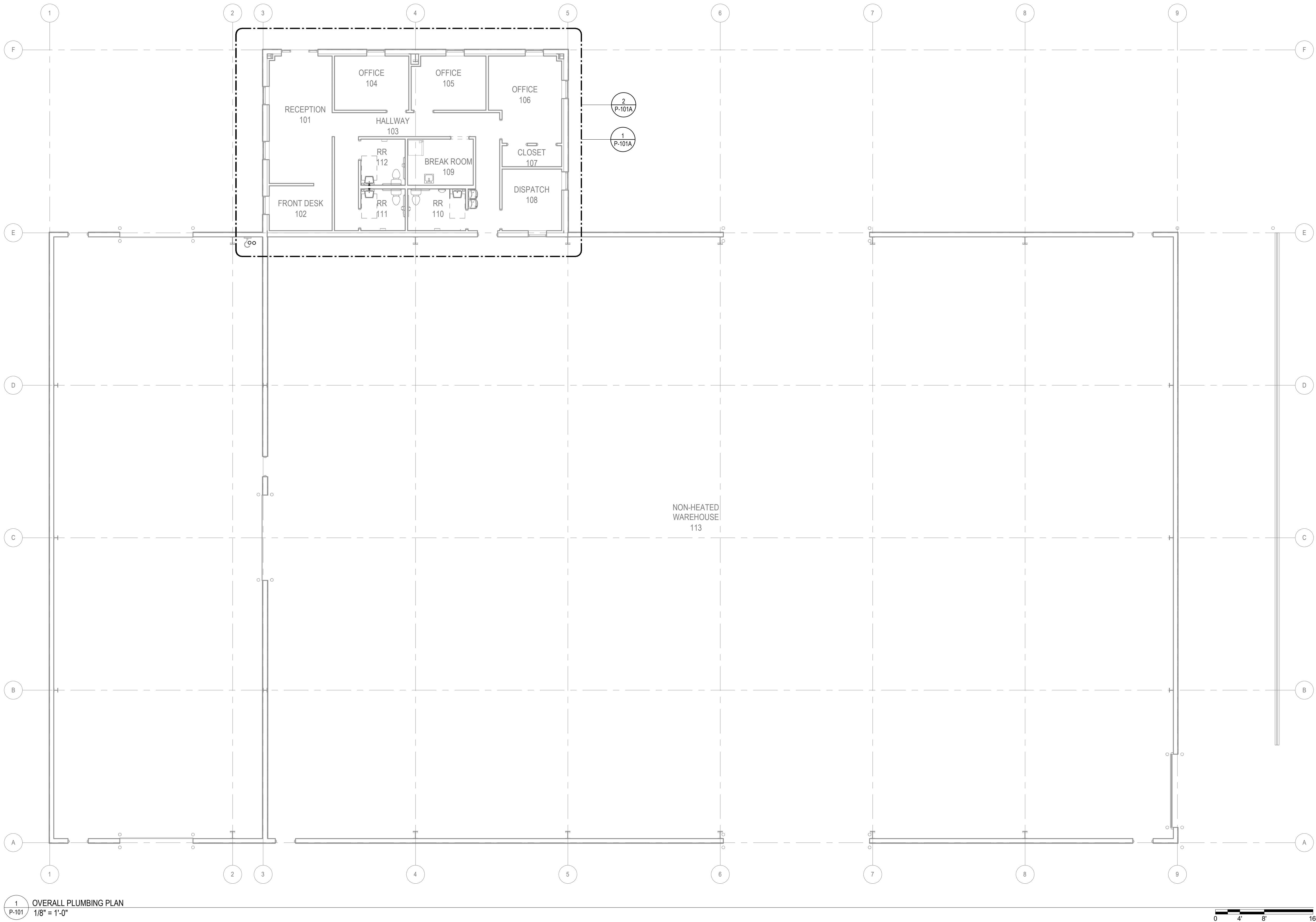
3.3 SCHEDULES

- A. System Hazard Areas:
1. Libraries except Stack Areas, Office & Public Areas, Residential Living Areas, and similar occupancies – Light Hazard Design; 0.10 GPM/sq. ft. over the most remote 1500 square foot.
2. Automobile Parking Areas, Building Service Areas, Electrical Equipment Rooms, General Storage Areas, Laundries, Mechanical Equipment Rooms, Restaurant Service Areas, and similar occupancies – Ordinary Hazard Group 1 Design; 0.15 GPM/sq.ft. over the most remote 1500 square foot.
3. Dry Cleaners, Library Stack Areas, Machine Shops, Repair Garages, and similar occupancies – Ordinary Hazard Group 2 Design;0.20 GPM/sq.ft. over the most remote 1500 square foot.

END OF SECTION

	
PROJECT NUMBER:	25-038
REVISIONS	NO. DATE
ISSUE:	

4/24/2026 9:38:27 AM C:\Users\Total Engineers\Documents\IP24_TE 26-020_jerryP7ZQ.rvt



PROJECT NUMBER: 25-040

REVISIONS
NO. DATE: ISSUE:

1
P-101

DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

OVERALL
PLUMBING PLAN

P-101

ALPHA BLDG SET 09-17-2026



PROJECT NUMBER: 25-040

REVISIONS
NO. DATE: ISSUE:

DRYWALL WAREHOUSE HWY 81

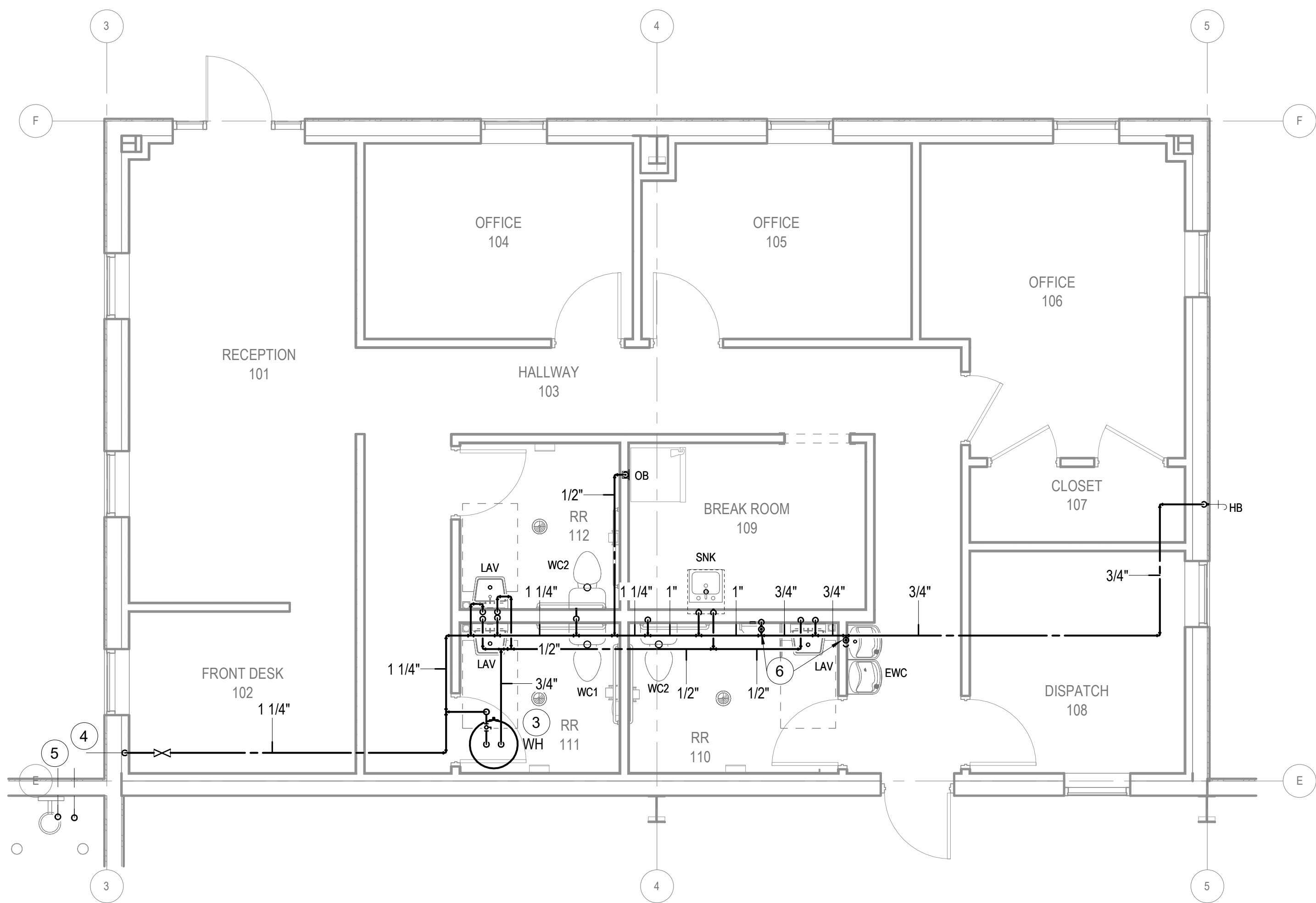
257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ENLARGED
OFFICE
PLUMBING PLAN

P-101A

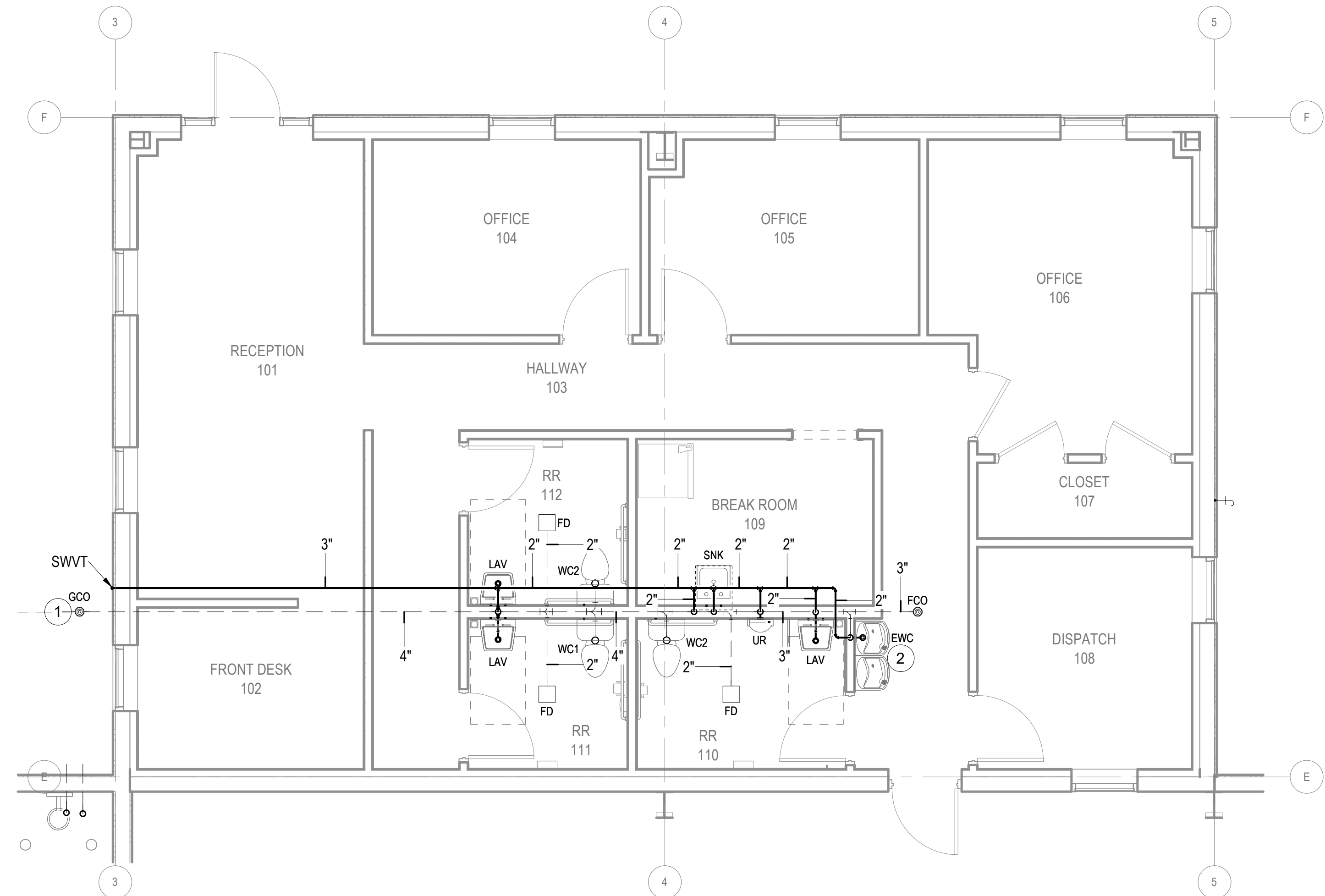
NEW WORK NOTES - P-101A

#	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



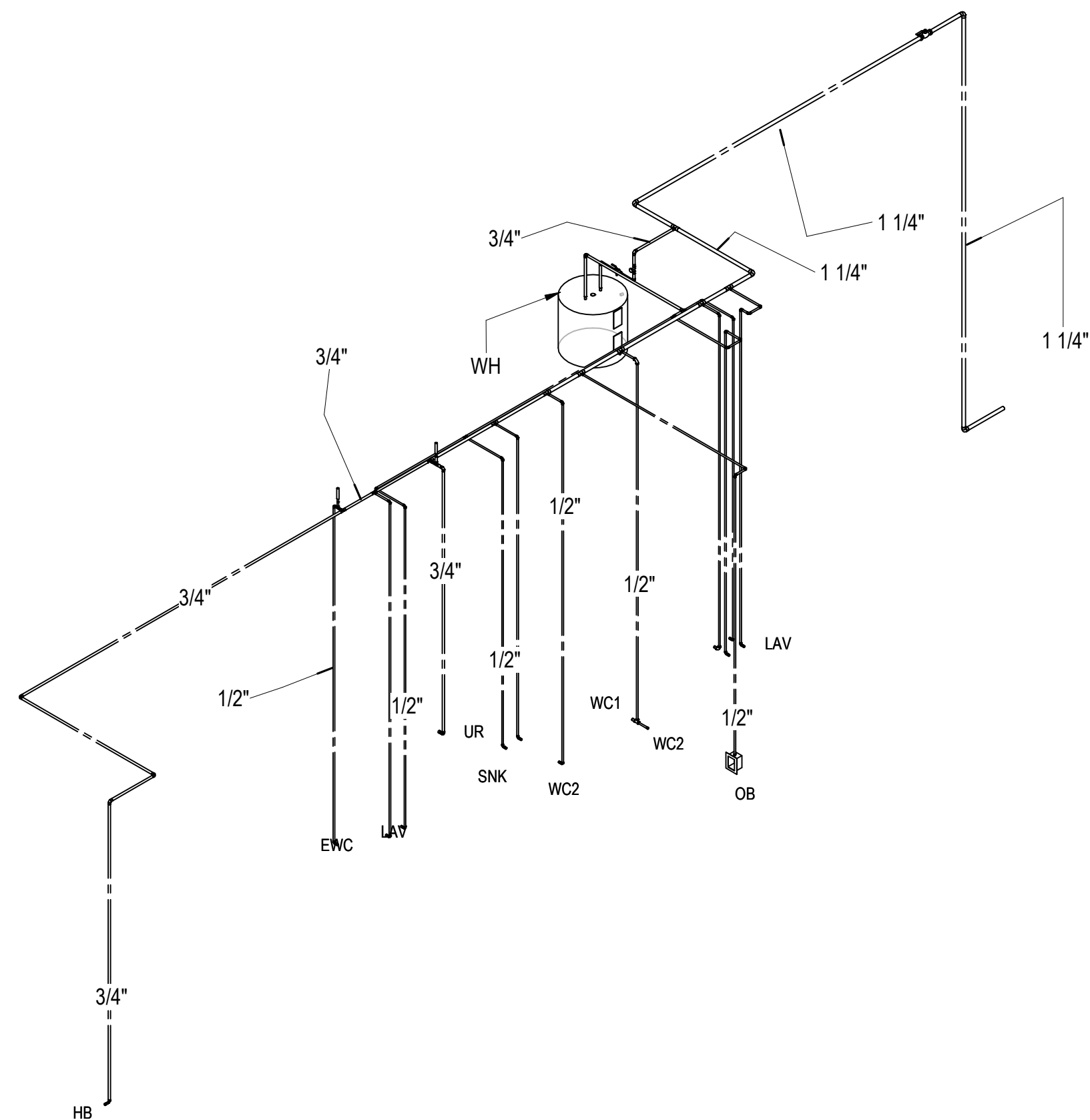
1
P-101A
ENLARGED OFFICE PLUMBING PLAN - DOMESTIC WATER
1/4" = 1'-0"

0 2' 4' 8'

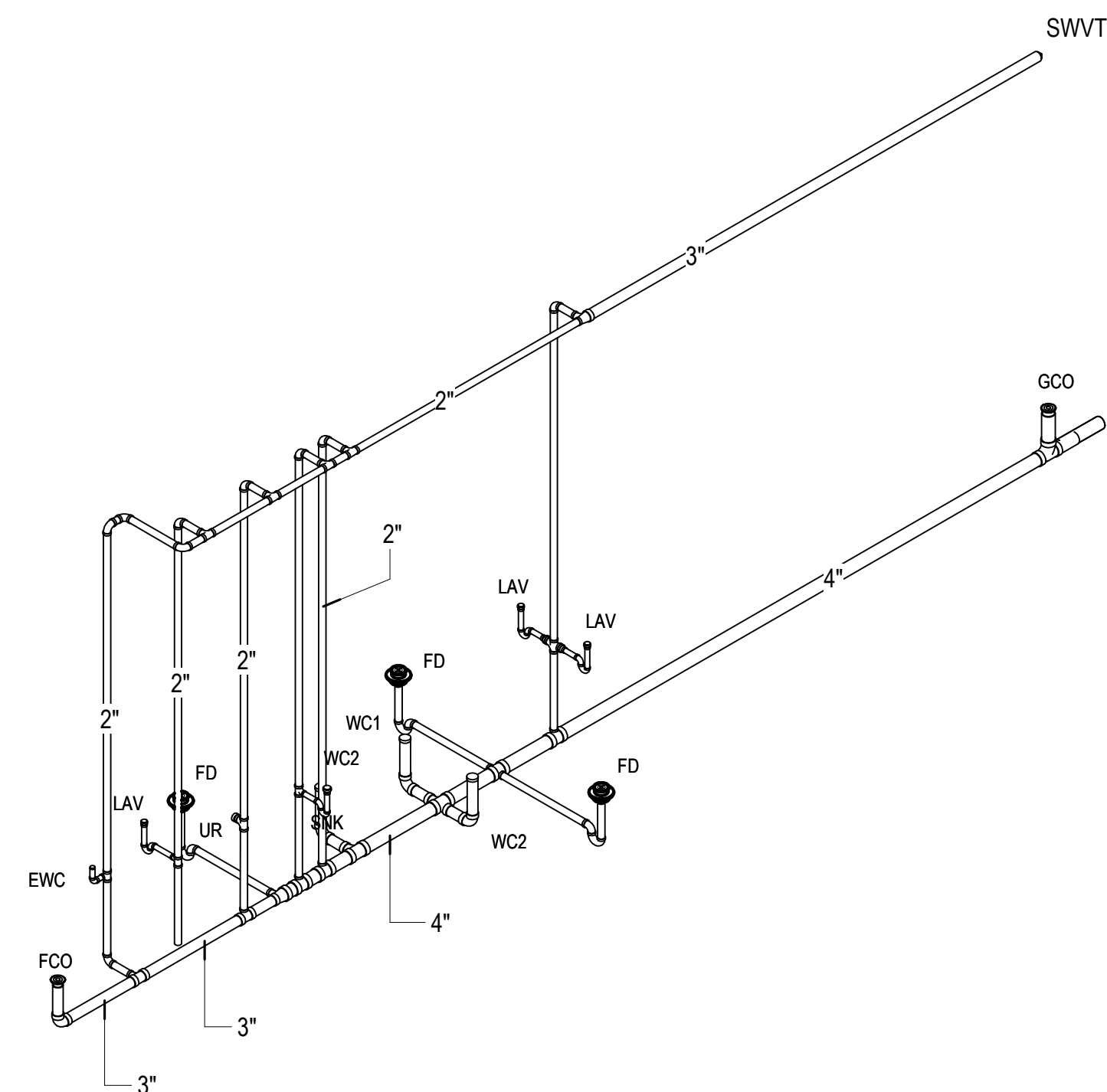


2
P-101A
ENLARGED OFFICE PLUMBING PLAN - WASTE & VENT
1/4" = 1'-0"

0 2' 4' 8'



4
P-101A
WATER RISER
NOT TO SCALE



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

ALPHA BLDG SET 09-17-2026

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.



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

EDC
ELECTRICAL DESIGN
CONSULTANTS

ELECTRICAL ENGINEERS
MACON OFFICE - PROJECT #: M2604
edc1973.com

[illegible]

ELECTRICAL SPECIFICATIONS

DIVISION 26
ELECTRICAL

SECTION A: GENERAL ELECTRICAL REQUIREMENTS

1. 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.

2. 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.

3. 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.

4. ALL PERMITS AND FEES SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

5. ALL EQUIPMENT, MATERIAL, AND DEVICES SHALL BE LISTED OR RECOGNIZED BY UNDERWRITER'S LABORATORY OR ELECTRICAL TESTING LABORATORY AND USED AND INSTALLED IN ACCORDANCE WITH ITS LISTING.

6. ALL WORK PERFORMED SHALL BE WARRANTED FOR A PERIOD OF ONE YEAR FROM THE 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.

7. THE TERM "PROVIDE" SHALL BE UNDERSTOOD TO MEAN, OBTAIN THE ITEM DESCRIBED, INSTALL IT IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, AND MANUFACTURER'S RECOMMENDATIONS.

8. ALL PENETRATIONS MADE IN FIRE RATED BUILDING PORTIONS SHALL BE SEALED WITH A LISTED RESISTANT MATERIAL SUITABLE FOR THE APPLICATION.

9. ALL INSTALLATIONS OF ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE COORDINATED WITH OTHER TRADES PRIOR TO INSTALLATION.

10. 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.

11. CONTRACTOR SHALL VERIFY AND COORDINATE ALL EQUIPMENT AND DEVICE LOCATIONS WITH OWNER'S PROJECT MANAGER PRIOR TO INSTALLATION.

12. 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 OVERALL CHANGE ORDER COST. 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 THE ENGINEER'S REVIEW AND COMMENT ON THIS DOCUMENT. ANY EQUIPMENT ORDERED OR BRANCH CIRCUITRY ROUGHED IN WITHOUT THIS REVIEW AND COMMENT WILL BE TOTALLY AT THE CONTRACTORS RISK.

SECTION B: BASIC MATERIALS

1. ALL CONDUCTORS USED FOR 600 VOLTS OR LESS SHALL BE HIGH GRADE COPPER CONDUCTORS WITH 75 DEGREE C, THHN OR THWN THERMOPLASTIC INSULATION. ALL CONDUCTORS SHALL BE MADE IN THE USA. ALL CONDUCTORS ROUTED IN UNDERGROUND CONDUIT SHALL BE RATED FOR WET LOCATIONS.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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).

7. 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.

8. ALL CONVENIENCE RECEPTACLES SHALL BE SPECIFICATION GRADE 20 AMP RECEPTACLES, OWNER TO SELECT COLOR. TAMPER RESISTANT (TR) TYPE.

9. ALL LIGHT SWITCHES SHALL BE SPECIFICATION GRADE 20 AMP TOGGLE SWITCHES FULL LOAD RATED FOR TUNGSTEN-HALOGEN LAMPS, OWNER TO SELECT COLOR.

10. PROVIDE FACEPLATES FOR ALL RECEPTACLES AND SWITCHES. COORDINATE STYLE AND COLOR WITH OWNER'S PROJECT MANAGER.

11. 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.

12. 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.

13. 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

1. CONTRACTOR SHALL PROVIDE CONDUCTORS AND CONDUIT FOR ALL FEEDERS IN ACCORDANCE WITH THE PLANS.

2. SEPERATELY MOUNTED CIRCUIT BREAKERS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES WITH 3R OR 4R RATED TERMINATIONS AND 3R OR 4R RATED EXTERIOR OR WET LOCATIONS. ALL CIRCUIT BREAKER ENCLOSURES SHALL BE PROVIDED WITH HINGED COVERS AND PROVISIONS FOR PADLOCKING THE COVERS.

3. ALL EQUIPMENT CONTAINING MOTORS SHALL BE PROVIDED WITH A DISCONNECTING MEANS NOTING THE TYPE 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.

4. PROVIDE GFCI CIRCUIT BREAKERS AND RECEPTACLES AS INDICATED ON THE PLANS AND IN THESE SPECIFICATIONS. THESE DEVICES SHALL BE CLASS A GFCI DEVICES.

5. 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. REQUIRED. EACH OUTLET SHALL HAVE A CONDUIT RATED TERMINATION. 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, SEIMENS, AND CULTER HAMMER. ALL CURRENT CARRYING PARTS SHALL BE COPPER.

6. SYSTEM COORDINATION: THE MANUFACTURER OF THE PANELBOARDS SHALL PROVIDE SERIES RATED EQUIPMENT BASED ON U.L. LISTED TEST RESULTS. THE CONTRACTOR SHALL VERIFY THE AVAILABLE SHORT CIRCUIT CURRENT AT THE SERVING TRANSFORMER.

7. 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.

8. PROVIDE NAMEPLATES FOR ALL PANELBOARDS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BRKAKERS, 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 USAGE 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

1. 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.

2. 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.

3. RATED LUMINAIRE WATTAGE SHALL BE ACTUAL, ACCOUNTING FOR ANY REDUCTION IN EFFICIENCY DUE TO SUB-OPTIMAL LOADING OF DRIVERS.

4. BALLAST SHALL BE CAPABLE OF ACCEPTING THE VOLTAGE INDICATED ON THE FIXTURE. BALLAST VALVE AND CIRCUITRY SHALL BE U.S. MANUFACTURED. DRIVERS SHALL HAVE A CLASS A RATING, TOTAL HARMONIC DISTORTION OF LESS THAN 20%, AND SHALL NOT CONTAIN ANY POLYCHLORINATED BIPHENYL (PCB).

5. ALL LIGHTING FIXTURES SHALL BE TESTED TO IES LM-79 AND IES LM-80 STANDARDS. PROVIDE A TYPEWRITTEN SUPPLEMENTARY SCHEDULE OF BALLAST AND DRIVER COMPONENTS SHALL HAVE A SYSTEM LIFETIME MINIMUM OF 50,000 HOURS OR MORE AT 25 DEGREES CELSIUS AND SHALL MAINTAIN A MINIMUM OF 85% OF INITIAL LUMEN OUTPUT AFTER 55,000 HOURS OF OPERATION. LED'S SHALL HAVE COLOR RENDERING INDEX (CRI) OF 80 OR GREATER.

6. 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.

7. 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.

8. 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.

9. 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.

SECTION E: FIRE ALARM SYSTEM

1. ACCEPTABLE MANUFACTURERS: NOTIFIER, FIRE LITE, EDWARDS, OR SILENT KNIGHT.

2. PROVIDE A COMPLETE OPERABLE FIRE ALARM SYSTEM FOR THIS PROJECT. THE MAIN PANEL SHALL BE LOCATED AS SHOWN. THE FIRE ALARM SYSTEM SHALL BE DESIGNED FOR CLASS B OPERATION. THE WIRING FOR THE FIRE ALARM SYSTEM SHALL BE INSTALLED IN 1/2 IN. ELECTRICAL METALLIC TUBING. PROVIDE INSULATED FITTINGS ON ALL CONDUIT ENDS. THE FIRE ALARM SHALL BE MADE IN THE USA AND BE UL LISTED. ALL WIRING AND DEVICES FOR THE SYSTEM SHALL BE FULLY APPROVED. COLOR CODE THE CONDUIT EVERY 24 IN. WITH RED MARKINGS (EXCEPT WHERE EXPOSED).

3. THE MAIN PANEL SHALL HAVE A BATTERY BACKUP AND BE SURGE PROTECTED. THE BATTERY SHALL BE CAPABLE OF PROVIDING NORMAL OPERATION FOR A PERIOD OF 24 HOURS WITH ENOUGH RESERVE TO ANNUNCIATE A BUILDING ALARM FOR 90 MINUTES.

4. NEW DEVICES SHALL BE PROVIDED WITH RECESSED METAL BOXES. ALL DEVICES SHALL BE MOUNTED FLUSH WITH WALL EXCEPT FOR PULL STATIONS WHICH SHALL BE SEMI-FLUSH.

5. NEW HORN/STROBE DEVICES SHALL MEET THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. THE HORN SHALL PRODUCE A SOUND LEVEL OF 90 DECIBELS AND THE STROBE SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELA. BOTH SOUND PRESSURE AND STROBE INTENSITY SHALL BE FIELD SELECTABLE AND ADJUSTABLE.

6. STROBE DEVICES SHALL PRODUCE A FLASHING PULSE OF LIGHT OF 75 CANDELLA.

7. NEW PULL STATIONS SHALL BE NON-GLASS BREAK TYPE AND KEYED THE SAME AS THE FIRE ALARM PANEL.

8. THE SMOKE DETECTORS SHALL BE THE PHOTOELECTRIC TYPE POWERED FROM THE MAIN FIRE ALARM PANEL.

9. THE GENERAL BUILDING ALARM WILL SOUND WHEN ACTIVATED AT THE CONTROL PANEL, BY SMOKE OR HEAT DETECTORS, OR BY A PULL STATION. ALARM WILL ALSO SOUND WHEN ACTIVATED BY A DUCT SMOKE DETECTOR OR SPRINKLER.

10. THE MAIN PANEL SHALL PROVIDE INDICATION OF EACH INITIATING DEVICE LOCATION FOR ALARM, TROUBLE, AND SUPERVISORY CONDITIONS. THE PANEL SHALL HAVE LAMP TEST, ALARM SILENCE, TROUBLE, AND SUPERVISORY SILENCE, SYSTEM RESET, AND ALARM INITIATE CONTROLS. THE PANEL SHALL ALSO INDICATE VOLTAGE AND BATTERY TEST. THE PANEL SHALL ALSO INCLUDE AN LCD DISPLAY. PANEL SHALL BE IN A SURFACE MOUNTED ENCLOSURE WITH LOCKABLE, SEE THROUGH, HINGED FRONT COVER.

11. THE FIRE ALARM PANEL SHALL BE EQUIPPED WITH A DIGITAL TRANSMITTER AND CELLULAR COMMUNICATOR FOR OFF PREMISES REMOTE MONITORING (FIRE DEPARTMENT) DURING ALARM CONDITION. PROVIDE 3/4 IN. CONDUIT FROM FIRE ALARM PANEL TO TELEPHONE BACKBOARD. FIELD COORDINATE.

12. PROVIDE REMOTE ANNUNCIATOR PANEL AS SHOWN ON PLANS. THE ANNUNCIATOR PANEL SHALL BE PROVIDED WITH AN LCD DISPLAY AND CONDUIT TO THE ANNUNCIATOR PANEL INCLUDING, BUT NOT LIMITED TO, ALARM ACKNOWLEDGE, ALARM SILENCE, RESET, ETC.

13. PROVIDE PHOTO ELECTRIC TYPE DUCT MOUNTED SMOKE DETECTORS WHERE SHOWN IN HVAC SUPPLY DUCT. UNIT SHALL HAVE SAMPLING TUBES THAT EXTEND THE WIDTH OF THE DUCT. PROVIDE REMOTE INDICATOR ACCESSIBLE IN NEAREST MECH/ELEC ROOM FOR EACH DETECTOR, WHICH WILL INDICATE WHICH DETECTOR IS ACTIVATED.

14. SEE FIRE ALARM SUBCONTRACTOR SUBMITTAL TO AUTHORITY HAVING JURISDICTION ON SHEET E-401 FOR ADDITIONAL REQUIREMENTS. FIRE ALARM SUBCONTRACTOR IS RESPONSIBLE FOR ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE, AND LOCAL CODES.

DIVISION 27
TELE / DATA NETWORK
SECTION F: CONDUIT AND OUTLET SYSTEM FOR TELE / DATA NETWORK

1. PROVIDE A COMPLETE SYSTEM OF CONDUITS AND OUTLET BOXES FOR SYSTEMS AS REQUIRED. EACH OUTLET SHALL HAVE A CONDUIT RATED TERMINATION. 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.
2. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. CONDUIT SHALL BE MINIMUM 1" WITH EXPOSED CONDUIT MINIMUM 3/4" TRADE SIZE. PROVIDE NYLON FULL STRING IN ALL CONDUIT. ALL FAULT 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.
3. PROVIDE SERVICE ENTRANCE CONDUIT BELOW GRADE AT LOCATION AND ROUTING SHOWN OR NOTED. CONDUIT IS TO BE A MINIMUM OF TWO CONDUITS, EACH (3", ONE WITH THREE 1" INNERDUCTS) (4", ONE WITH THREE 1-1/4" INNERDUCTS) PROVIDE PULL STRING IN EACH DUCT / INNERDUCT AND PROVIDE TRACER WIRE IN EACH CONDUIT.
4. ALL CONDUIT FOR FIBER OPTIC CABLE SHALL UTILIZE LONG RADIUS ELBOWS, INSIDE RADIUS OF BEND OF NOT LESS THAN 18" FROM CENTER OF CURVATURE.
5. LOCATION OF OUTLETS SHALL BE AS SHOWN ON THE DRAWINGS AND HEIGHTS AS DEFINED ON LEGEND OR ELSEWHERE IN SPECIFICATIONS OR ON DRAWINGS.
6. 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.
7. COLOR AND MATERIAL OF FACEPLATES IS TO MATCH CONVENIENCE OUTLETS AND LIGHT SWITCHES, COORDINATE COLOR WITH ARCHITECT.
8. BOXES FOR RECESSED INSTALLATION SHALL BE STANDARD SHEET METAL TYPE, FOR EXPOSED BOX LOCATIONS PROVIDE CAST TYPE BOX WITH THREADED HUBS.
9. PROVIDE JUMBO BLANK WALL PLATES FOR ALL OUTLETS NOT CABLED, FINISH TO MATCH ALL OTHER OUTLETS.

SECTION G: TELE / DATA NETWORK

1. GENERAL: THE CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE TELE / DATA NETWORK AS FOLLOWS IF REQUIRED. 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.

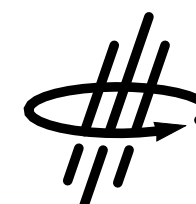
2. ALL PRODUCTS ARE TO BE INSTALLED PER THE INSTALLATION DETAILS AND REQUIREMENTS OF THE RESPECTIVE MANUFACTURER NECESSARY TO MAINTAIN PERFORMANCE STANDARDS AND WARRANTY REQUIREMENTS. OBTAIN AND COORDINATE ALL INSTALLATION INSTRUCTIONS PRIOR TO ROUGH IN OF ANY CABLE PATHWAY.

3. CODES AND STANDARDS: CONTRACTOR IS TO COMPLY WITH THE LATEST VERSION, INCLUDING SUPPLEMENTS, OF THE FOLLOWING STANDARDS OR CODES:
a. EIA / TIA - 568 COMMERCIAL BUILDING TELECOMMUNICATIONS WIRING.
b. EIA / TIA - 569 COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS AND SPACES.
c. EIA / TIA - 606 ADMINISTRATION STANDARD FOR THE TELECOMMUNICATIONS INFRASTRUCTURE OF COMMERCIAL BUILDINGS.
d. EIA / TIA - 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS.

4. 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.
5. 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.
6. SUBMITTALS: CONTRACTOR IS SUBMIT THE FOLLOWING INFORMATION FOR REVIEW PRIOR TO PROCUREMENT OF ANY PRODUCT SPECIFIED.
a. CONTRACTOR AND INSTALLER CERTIFICATIONS.
b. SUBMIT A ONE-LINE SCHEMATIC OF THE COMPLETE SYSTEM SHOWING FLOOR PLAN TO SCALE, SHOWING LOCATIONS AND TYPES OF EQUIPMENT AND CABLES.
c. MANUFACTURERS STANDARD PRODUCT DATA FOR ALL ITEMS PROVIDED, ALL CUT SHEETS SHALL BE FULLY ANNOTATED TO SHOW ALL PROJECTS PROPOSED.
d. MANUFACTURERS PUBLISHED WARRANTY INFORMATION.
e. SUBMIT SAMPLE TEST REPORT, AND TESTING EQUIPMENT TO BE USED.
f. DOCUMENTATION OF TESTING / TEST DATA RESULTS OF ALL WIRING AND TERMINATIONS AND CONFORMANCE TO WARRANTY REQUIREMENTS (SUBMITTED AFTER INSTALLATION).
7. TESTING AND CERTIFICATIONS:
a. 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 LIG-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.
b. 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:
1. WIRE MAP
2. LENGTH
3. INSERTION LOSS
4. NEAR-END CROSSTALK (NEXT)
5. POWER SUM NEAR END CROSSTALK (PSNEXT)
6. EQUAL-LEVEL FAR END CROSSTALK (ELFEXT)
7. POWER SUM EQUAL-LEVEL FAR END CROSSTALK (PSELFEXT)
8. RETURN LOSS
9. PROPAGATION DELAY

8. RACK AND CABINET:
a. 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 PRE-ARRANGED FOR EACH PATCH PANEL CORD, AND EACH PATCH PANEL CORD, IN 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.
9. ENHANCED CATEGORY 6 (6E) CABLE AND CONNECTORS:
a. CAT 6E CABLE: PROVIDE AND INSTALL PREMIUM / ENHANCED CATEGORY 6 (6E) DATA CABLE AND CONNECTORS AT LOCATIONS AND QUANTITIES 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 RFP INSULATION, BLUE COLOR, OR AS SHOWN AND NOTED ON DRAWINGS, OR AS DIRECTED BY OWNER. CABLE IS TO BE SIEMON "PREMIUM 6 UTP (9C6PR-E4-XX)" SERIES OR APPROVED EQUAL.
b. WORST CASE TRANSMISSION PERFORMANCE ACCEPTABLE FOR CAT 6E CABLE AT 550 MHZ, BASED ON 100 METER CHANNEL LENGTH:
1. INSERTION LOSS - 40.2dB
2. NEXT - 38.2dB
3. PSNEXT - 10.0dB
4. ACR - -12.0dB
5. PSACR - 19.9dB
6. ACR-F - 16.9dB
7. PSACR-F - 14.9dB
8. RETURN LOSS - 536ns
9. PROPOGATION DELAY - 536ns
c. CAT 6 CONNECTORS: PROVIDE AN INSTALL CATEGORY 6 MODULAR CONNECTORS THAT ARE DUAL LABELED FOR 568-A/B/C/D/E/F/G/H AND USE. PROVIDE ANGLED MODULES FOR WORKSTATION OUTLETS AND FLAT FRONT MODULES FOR INSTALLATION IN PATCH PANELS OR FOR WALL MOUNT PHONE / DEVICE 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 "2-MAX-6 (26)" SERIES OR APPROVED EQUAL.
d. 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.
10. PATCH PANEL AND WIRE MANAGEMENT:
a. 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 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.
b. 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.
11. 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 INLETS PLATES FOR OUTLETS THAT ARE NOT USED. PLATES ARE TO BE SIEMON "CT" FACEPLATES OR APPROVED EQUAL.
12. 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. MOUNT BOX ABOVE CEILING ON STANDARD 44X 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.
13. TELE / COMM BACKBOARD: PROVIDE A MINIMUM 3/4" X 4" X 8' PLYWOOD TELECOM BACKBOARD (OR AS SHOWN ON PLANS FOR LARGER AREAS), SECURED TO WALL STRUCTURE WITH MINIMUM 300 POUND ANCHORS. PAINT BACKBOARD WITH FLAT GRAY OR BLACK FIRE-PROOFING / FLAME RETARDANT INTUMESCENT LATEX PAINT.
14. CABLE SUPPORTS:
a. 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 USED, PROVIDE BLANK INLETS 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.
15. GROUNDING: PROVIDE A TELECOM GROUND BAR, 1/4" X 2" X 15" COPPER GROUND BAR MEETING REQUIREMENTS OF TIA-607-C/D AND NEMA 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.
16. 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.
17. 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:
a. SIEMON "PREMIUM 6 UTP" SERIES - BASIS OF DESIGN
b. HUBBELL "NEXTSPEED 6E"
c. COMMSCOPE SYSTIMAX "GIGASPEED XL-2071E"
d. PANDUIT "TX6000"
e. PRICHARD "LANMARK-2000" / LEVITON CONNECTORS
f. BELDEN "3600"
g. MOHAWK "ADVANCENET" / BELDEN CONNECTORS
h. OR APPROVED EQUAL

ALPHA BLDG SET
09-17-2026



EDC
ELECTRICAL DESIGN
CONSULTANTS

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

CSC
DESIGN,
INC.
ARCHITECTS & ENGINEERS
135 P RICHMAN INDUSTRIAL DR.
SUITE 100 CANTON, GA 30115
Phone: (770) 345-2579

© 2024, CSC Design. These drawings are prepared by or assigned work of the United States. These drawings or any part thereof may not be used for any other project without the written consent of CSC Design.



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE	Revision #1
	1	08/21/2026		

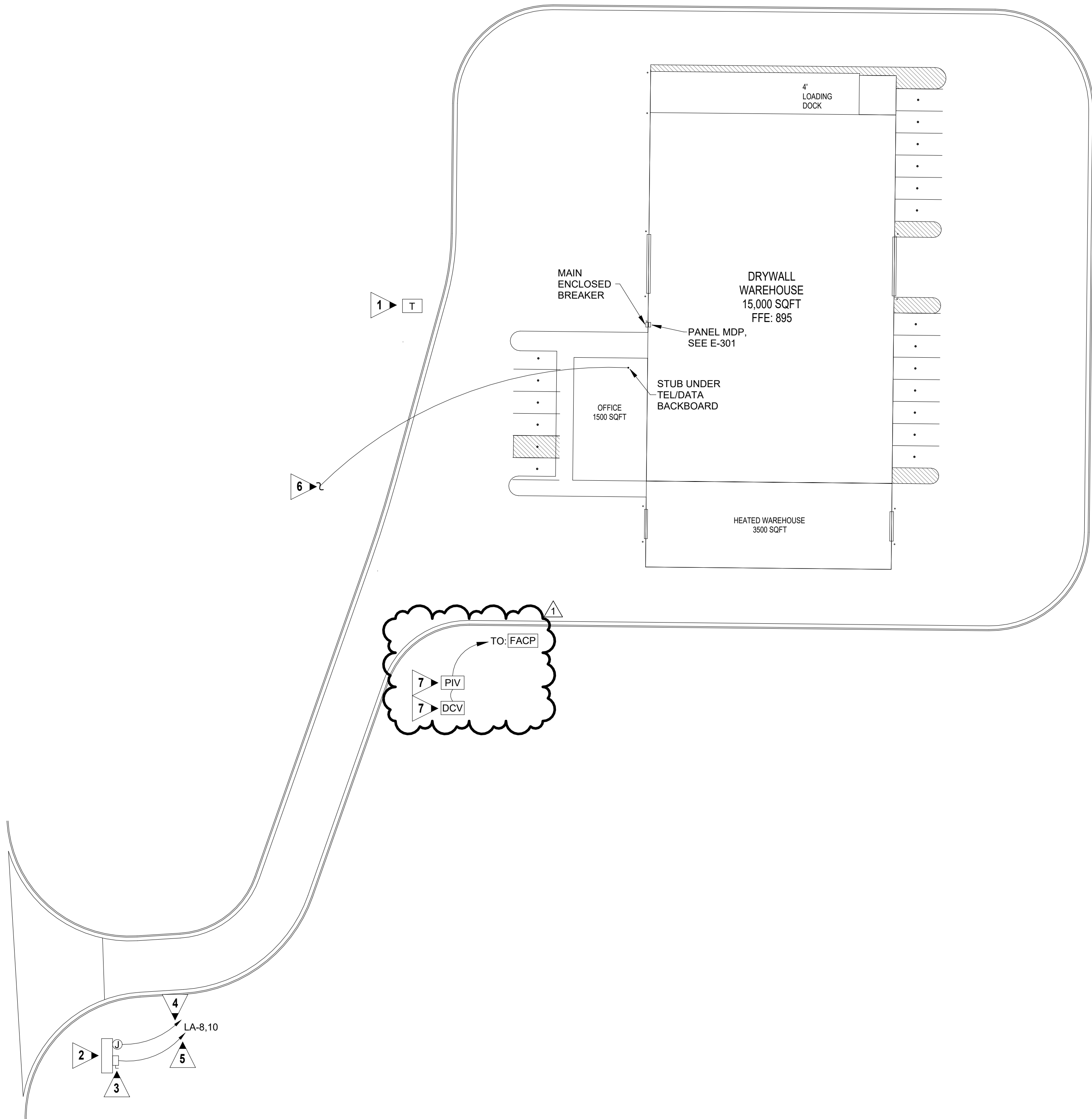
DRYWALL WAREHOUSE HWY 81

827 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

ELECTRICAL
SPECIFICATIONS

E-002

ISSUED FOR
CONSTRUCTION



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

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 AND TELE/DATA SERVICE POINT.
- 7 PROVIDE MONITORING OF DOUBLE CHECK VALVE AND POST INDICATOR VALVE FOR FIRE SPRINKLER SYSTEM. FIELD COORDINATE EXACT LOCATION.

GENERAL NOTES:

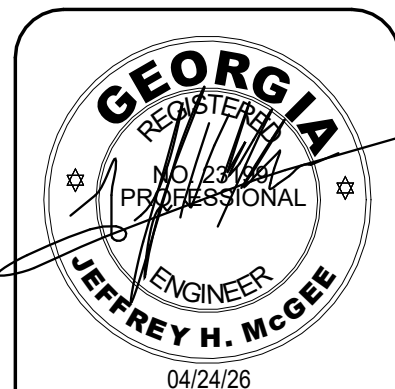
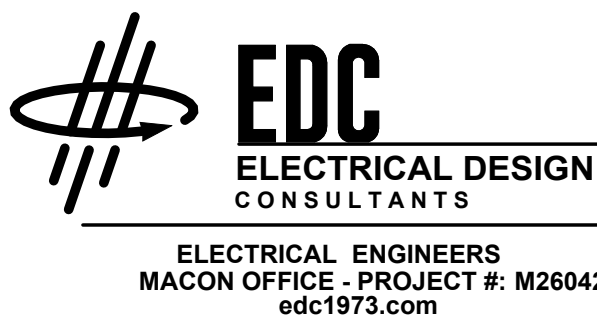
- A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS OF SITE AND WITH OFFICIAL SURVEYS AND OTHER TRADES.
- B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.
- D. CONTRACTOR SHALL STAKE-OFF ALL EXISTING UTILITIES 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.

ALPHA BLDG SET 09-17-2026



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE	Revision #1
	1	08/21/2026		

DRYWALL WAREHOUSE HWY 81

8271 HIGHWAY 81
MACON, GA 30454
WALTON COUNTY, GEORGIA

SITE PLAN -
ELECTRICAL

E-101

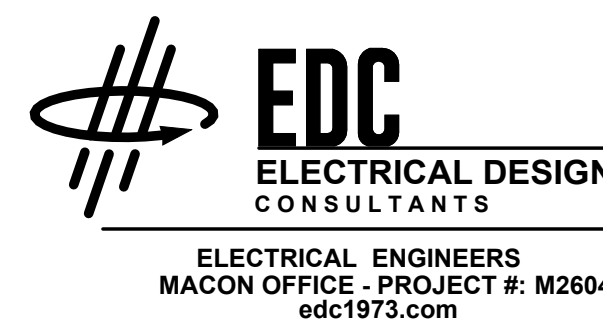
ISSUED FOR
CONSTRUCTION



ALPHA BLDG SET 09-17-2026

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". 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". 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 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.
- 2 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.
- 3 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.
- 4 COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.
- 5 4-POLE ELECTRICALLY YELD INTERIOR LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE. CONTACTOR SHALL HAVE 120 VOLT COIL AND 20 AMP, 120V CONTACTS. CONTACTOR SHALL CONTROL SWITCH INDICATIONS "s,p". CONTACTOR SHALL BE CONTROLLED BY 3-WAY AND 4-WAY SWITCHES. SEE KEYED NOTE 7.
- 6 2-POLE ELECTRICALLY YELD INTERIOR LIGHTING CONTACTOR IN NEMA 1 ENCLOSURE. CONTACTOR SHALL HAVE 120 VOLT COIL AND 20 AMP, 120V CONTACTS. CONTACTOR SHALL CONTROL SWITCH INDICATIONS "s,p". CONTACTOR SHALL BE CONTROLLED BY 3-WAY AND 4-WAY SWITCHES. SEE KEYED NOTE 7.
- 7 PROVIDE 3-WAY AND 4-WAY SWITCHES IN WEATHERPROOF ENCLOSURES TO CONTROL COIL OF INTERIOR LIGHTING CONTACTOR.



PROJECT NUMBER:	25-040
-----------------	--------

REVISIONS		ISSUE
NO.	DATE	

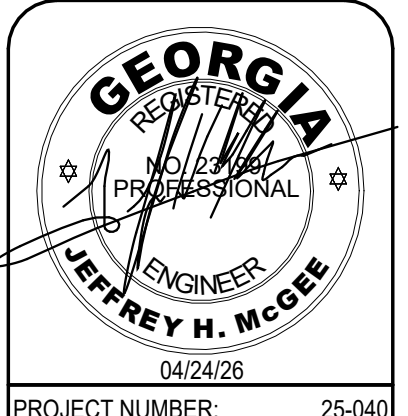
DRYWALL WAREHOUSE HWY 81

257 HIGHWAY 81
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

OVERALL FLOOR
PLAN - LIGHTING

E-201

ISSUED FOR
CONSTRUCTION



PROJECT NUMBER: 25-040

REVISIONS	NO.	DATE	ISSUE	Revision #1
	1	08/21/2026		

DRYWALL WAREHOUSE HWY 81

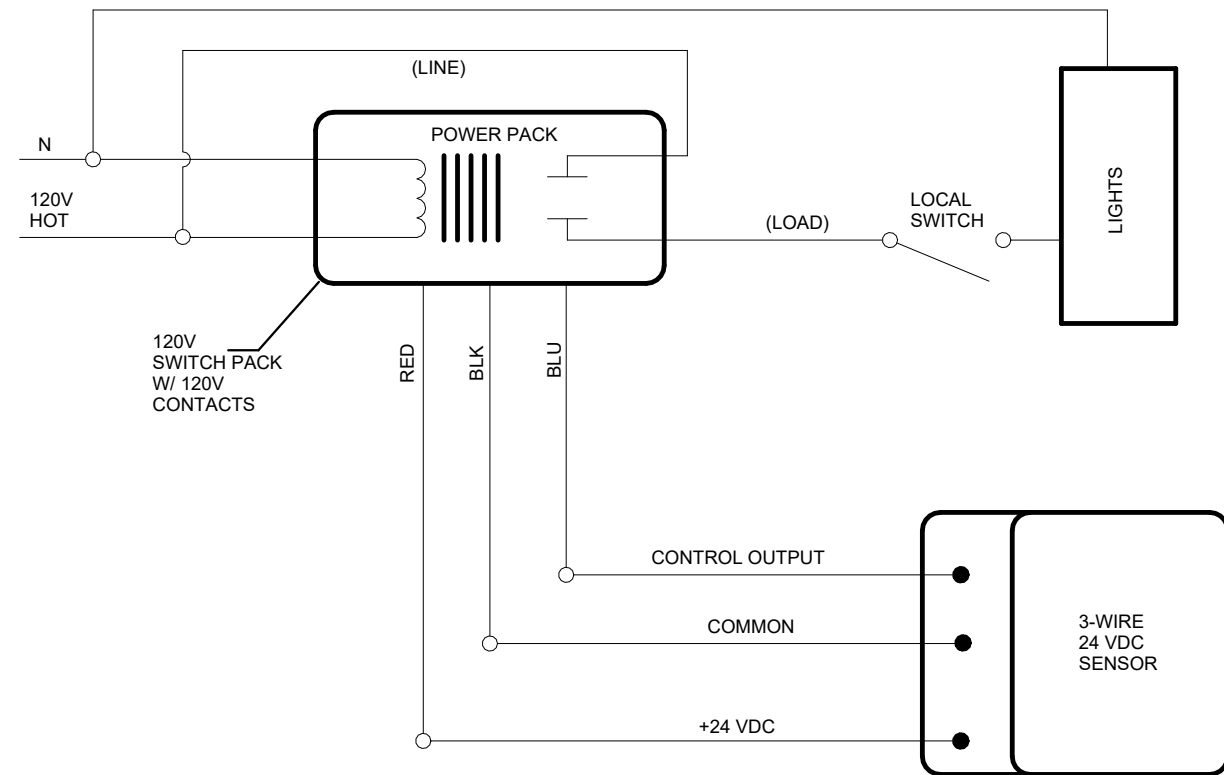
8271 HIGHWAY 81
CANTON, GA 30115
WALTON COUNTY, GEORGIA

OFFICE FLOOR
PLAN - LIGHTING

E-202

ISSUED FOR
CONSTRUCTION

ALPHA BLDG SET 09-17-2026



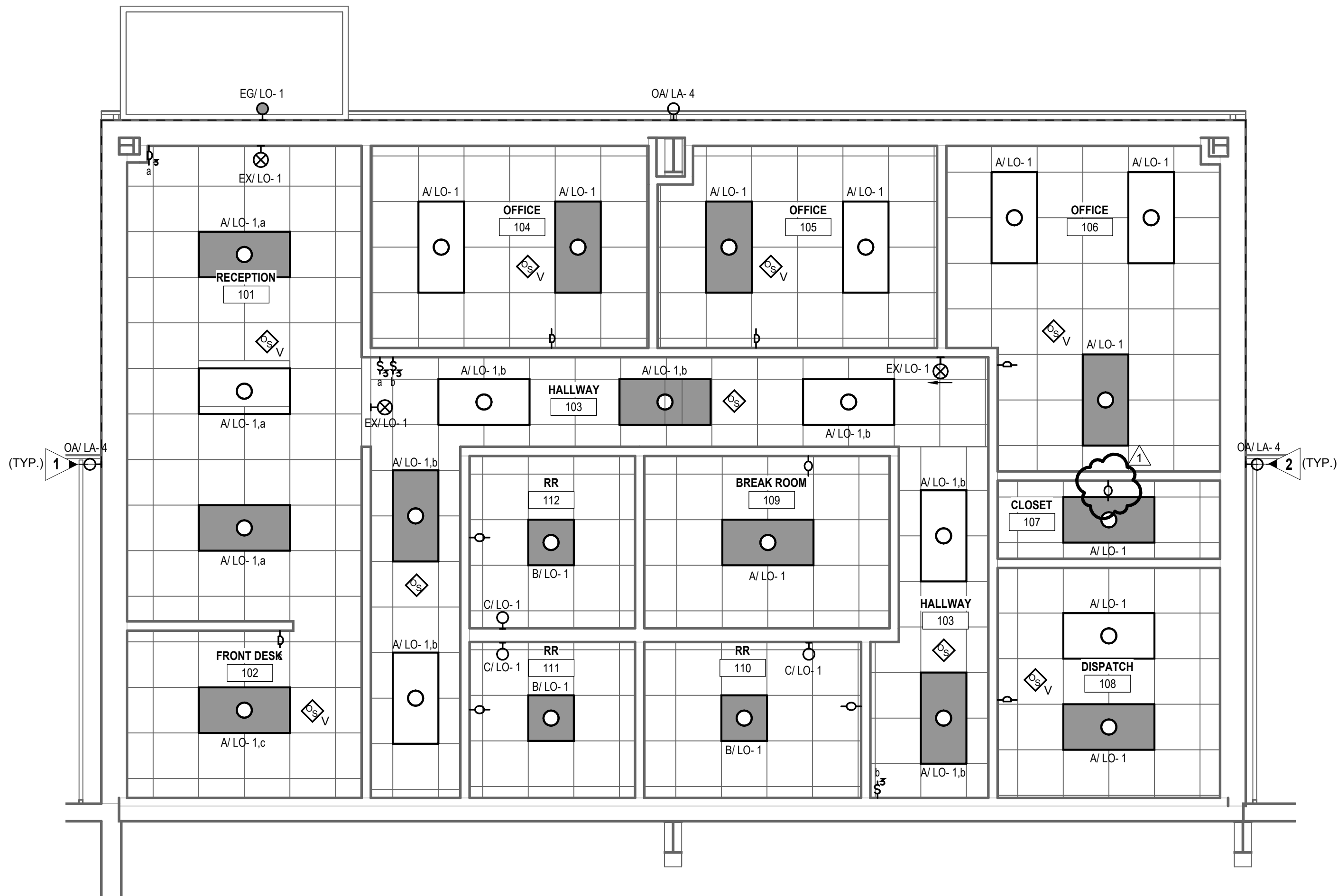
2 WIRING DIAGRAM - SENSOR CONTROL - LIGHTING
E-202 NO SCALE

KEYED NOTES:

- 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.
- COORDINATE EXACT MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

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 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.
- 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.



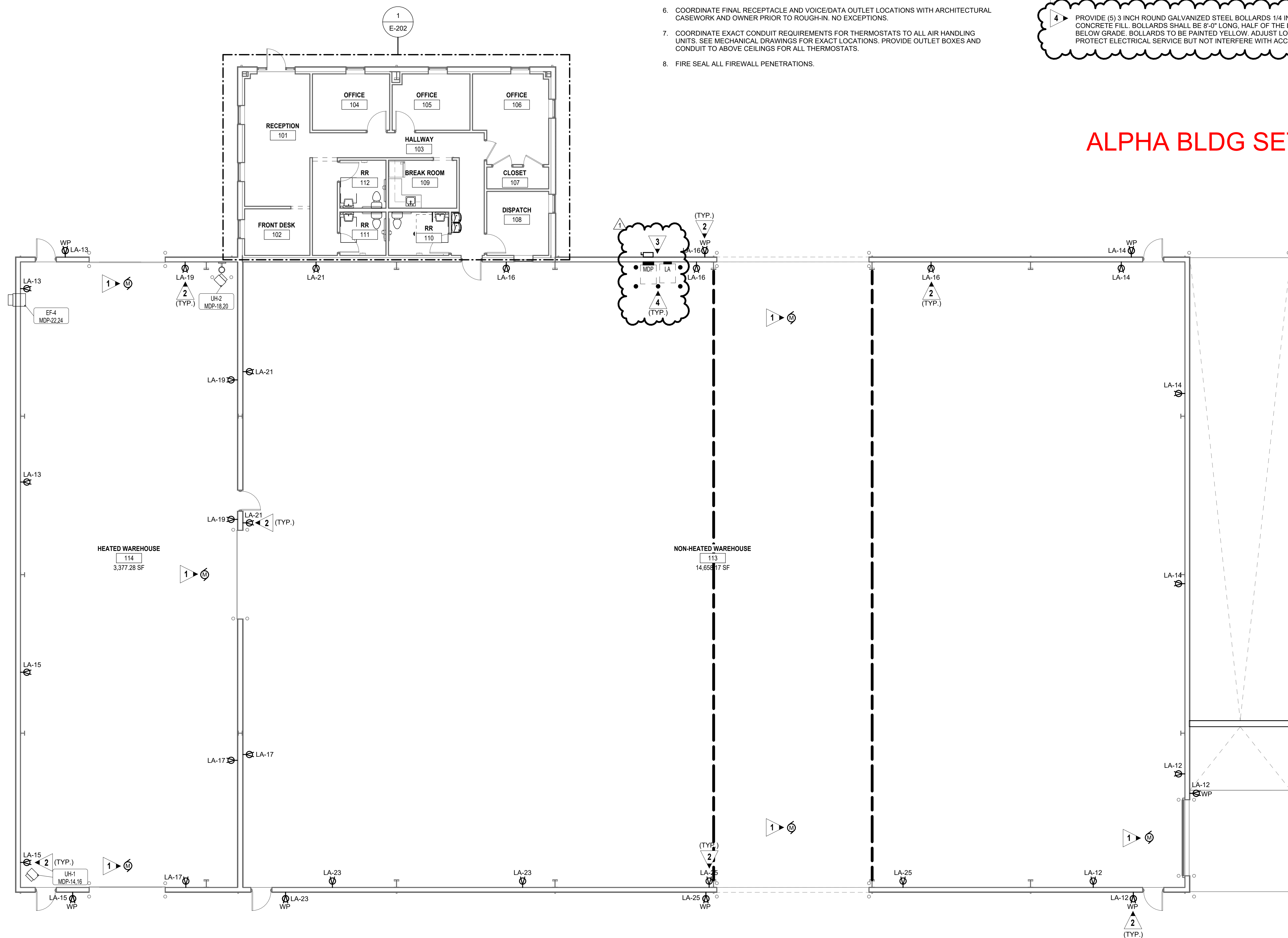
1 OFFICE FLOOR PLAN - LIGHTING
E-202 SCALE: 1/4" = 1'-0"

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.
4. PROVIDE (5) 3 INCH ROUND GALVANIZED STEEL BOLLARDS 1/4 INCH THICK WITH CONCRETE FILL. BOLLARDS SHALL BE 8'-0" LONG, HALF OF THE LENGTH 4'-0" BELOW GRADE. BOLLARDS TO BE PAINTED YELLOW. ADJUST LOCATION TO PROTECT ELECTRICAL SERVICE BUT NOT INTERFERE WITH ACCESS.



1
E-301

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

ALPHA BLDG SET 09-17-2026

REVISIONS	NO.	DATE	ISSUE	Revision #1
	1	08/21/2026		

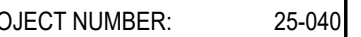
DRYWALL WAREHOUSE HWY 81

251 HIGHWAY 81
CANTON, GA 30115
WALTON COUNTY, GEORGIA

OVERALL FLOOR
PLAN - POWER &
TELE/DATA

E-301

ISSUED FOR
CONSTRUCTION



2. PROVIDE 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.

3. WATER-LOCK AND POWER-FAN-STOP SPEED CONTROLLER SHALL BE PROVIDED TO MINIMIZE FINE DUSTY RELAY. PROVIDE 1/2" WATER-LOCK AND POWER-FAN-STOP SPEED CONTROLLER.

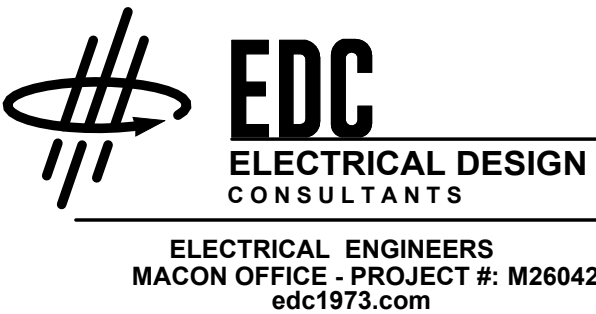
4. FAN SHALL BE CONTROLLED BY A STARTER DISCONNECT AND LINE VOLTAGE THERMOSTAT. COORDINATE STARTER DISCONNECT REQUIREMENTS WITH MECHANICAL AND WIRE STARTER DISCONNECT PER MANUFACTURERS INSTRUCTIONS.

1. VERIFY MOUNTING HEIGHTS OF ALL ELECTRICAL OUTLETS WITH ARCHITECTURAL ELEVATIONS AND MILLWORK DRAWINGS PRIOR TO ROUGH IN
2. ROUTE 1" 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.

- 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.
- 3 REFER TO POWER RISER DIAGRAM, 1/E-501.
- 4 ELECTRIC WATER COOLER (SERVED BY GFCI BREAKER). REFER TO DETAIL, 8/E-501.
- 5 REFER TO TELE/DATA RISER, 7/E-501.

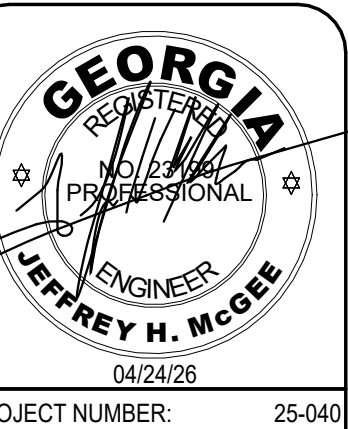


ALPHA BLDG SET 09-17-2026



WALTON COUNTY, GEORGIA

ISSUED FOR
CONSTRUCTION

[illegible]

DRYWALL WAREHOUSE HWY 81
357 HUGHES BL
OXFORD, GA 30054
WALTON COUNTY, GEORGIA

OVERALL FLOOR
PLAN - LOW
VOLTAGE

E-401

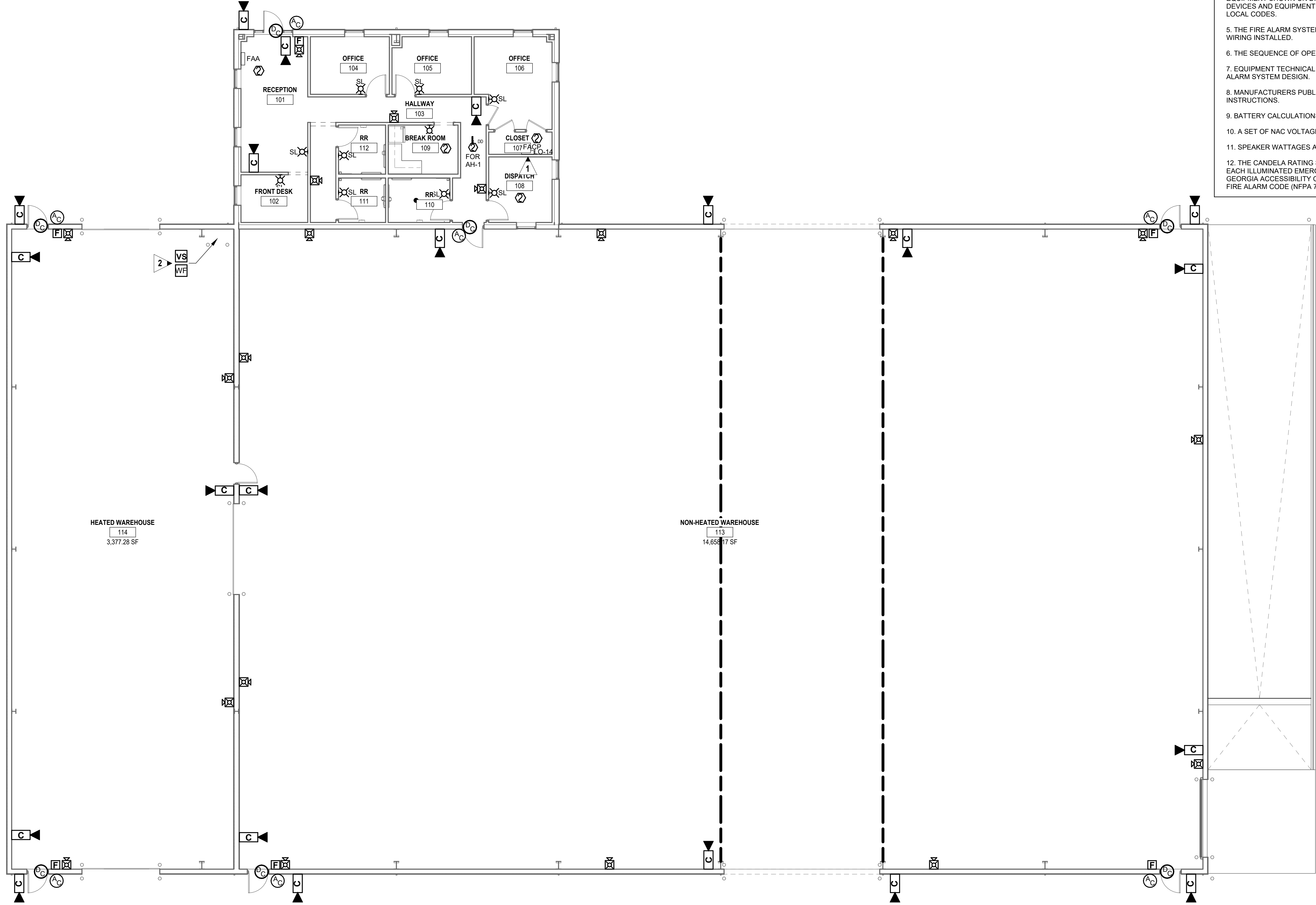
ISSUED FOR
CONSTRUCTION

- 1 LABEL CIRCUIT BREAKER SERVING FIRE ALARM CONTROL PANEL WITH RED NAME PLATE "FIRE ALARM CIRCUIT". LABEL FIRE ALARM CONTROL PANEL WITH CIRCUIT NUMBER SERVING PANEL. PROVIDE HASP LOCK FOR CIRCUIT BREAKER.
- 2 PROVIDE FIRE ALARM SYSTEM MONITORING MODULES AT ALL FIRE SPRINKLER FLOW AND TAMPER SWITCHES AT FIRE RISER. COORDINATE EXCT LOCATIONS AND QUANTITIES WITH FIRE PROTECTION DRAWINGS.

SECTION (E1): FIRE ALARM SUBCONTRACTOR SUBMITTAL REQUIREMENTS TO AUTHORITY HAVING JURISDICTION:

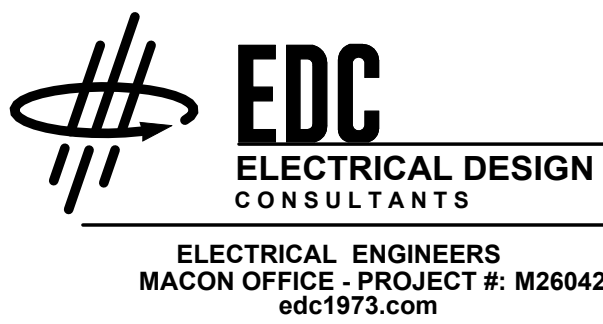
IN ACCORDANCE WITH CHAP 7, NFPA 72 THE FOLLOWING LIST REPRESENTS THE MINIMUM DOCUMENTATION REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR ALL FIRE ALARM SYSTEMS:

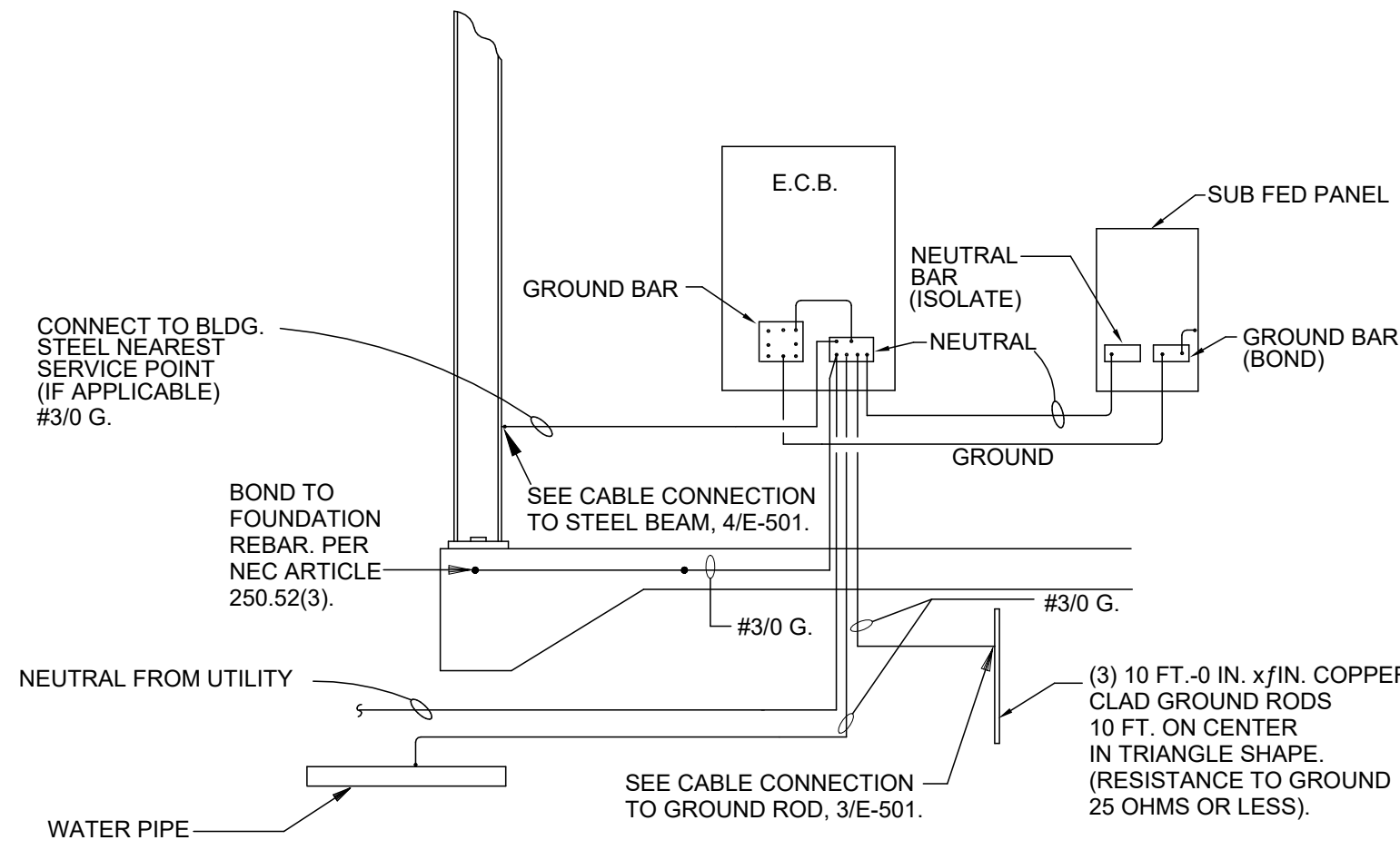
1. THE PRINTED NAME, SIGNATURE AND COPY OF CURRENT GEORGIA LICENSE OF THE LOW VOLTAGE CONTRACTOR WHO IS SUBMITTING THE FIRE ALARM PLANS FOR REVIEW AND WHO WILL BE RESPONSIBLE FOR INSTALLATION.
2. WRITTEN NARRATIVE PROVIDING INTENT AND SYSTEM DESCRIPTION.
3. A FIRE ALARM RISER DIAGRAM.
4. A FLOOR PLAN LAYOUT WITH ROOM NAMES, DOOR LOCATIONS, FIXTURES (DRAWN TO SCALE) SHOWING LOCATION OF ALL DEVICES AND CONTROL EQUIPMENT: DEVICES AND EQUIPMENT SHOWN ON DRAWINGS IS THE MINIMUM REQUIRED. PROVIDE ALL ADDITIONAL DEVICES AND EQUIPMENT AS REQUIRED TO MEET ALL NFPA, IBC, GEORGIA STATE AND LOCAL CODES.
5. THE FIRE ALARM SYSTEM WIRING LAYOUT DESIGN WHICH INCLUDES THE GAUGE(S) OF WIRING INSTALLED.
6. THE SEQUENCE OF OPERATION IN EITHER INPUT/OUTPUT MATRIX OR NARRATIVE FORM.
7. EQUIPMENT TECHNICAL DATA SHEETS FOR ALL COMPONENTS SPECIFIED IN THE FIRE ALARM SYSTEM DESIGN.
8. MANUFACTURERS PUBLISHED INSTRUCTIONS, INCLUDING OPERATION AND MAINTENANCE INSTRUCTIONS.
9. BATTERY CALCULATIONS.
10. A SET OF NAC VOLTAGE DROP/LOAD CALCULATIONS.
11. SPEAKER WATTAGES AND DECIBEL RATINGS FOR HORN ALARM SYSTEM COMPONENTS.
12. THE CANDELA RATING SHOWN FOR DRAWINGS FOR EACH STROBE/VISUAL DEVICE AND EACH ILLUMINATED EMERGENCY EXIT SIGN FIRE ALARM SYSTEM MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE (120-3-20), LIFE SAFETY CODE (NFPA 101) AND THE NATIONAL FIRE ALARM CODE (NFPA 72).



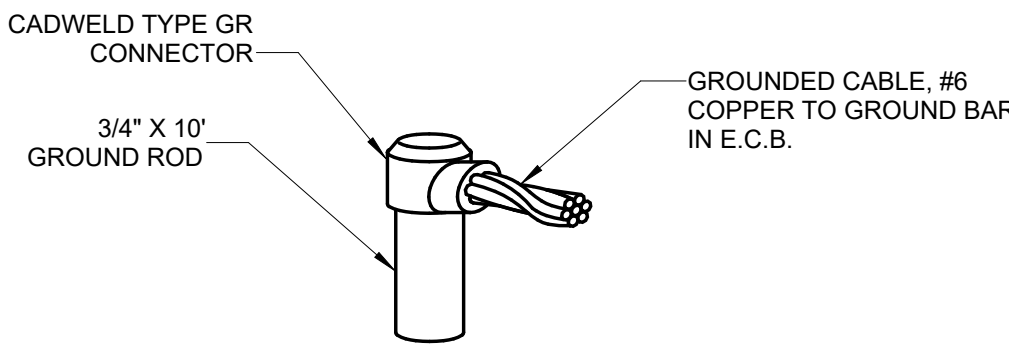
1 OVERALL FLOOR PLAN - LOW VOLTAGE
E-401 SCALE: 1/8" = 1'-0"

ALPHA BLDG SET 09-17-2026

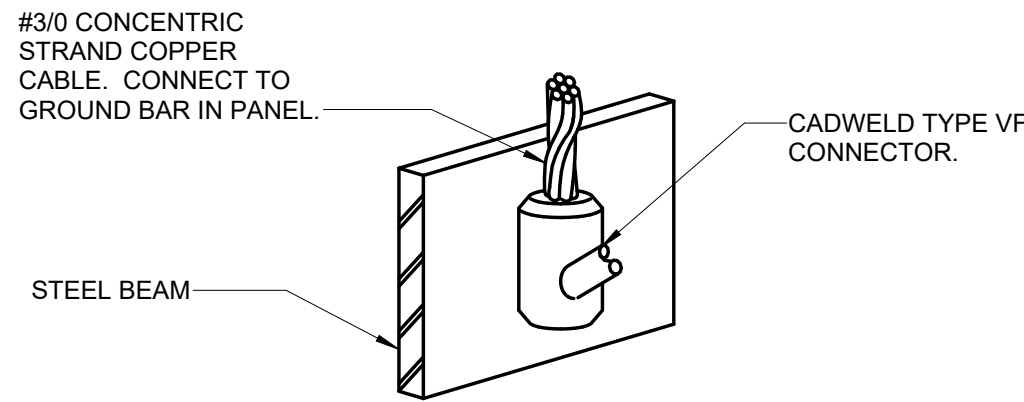




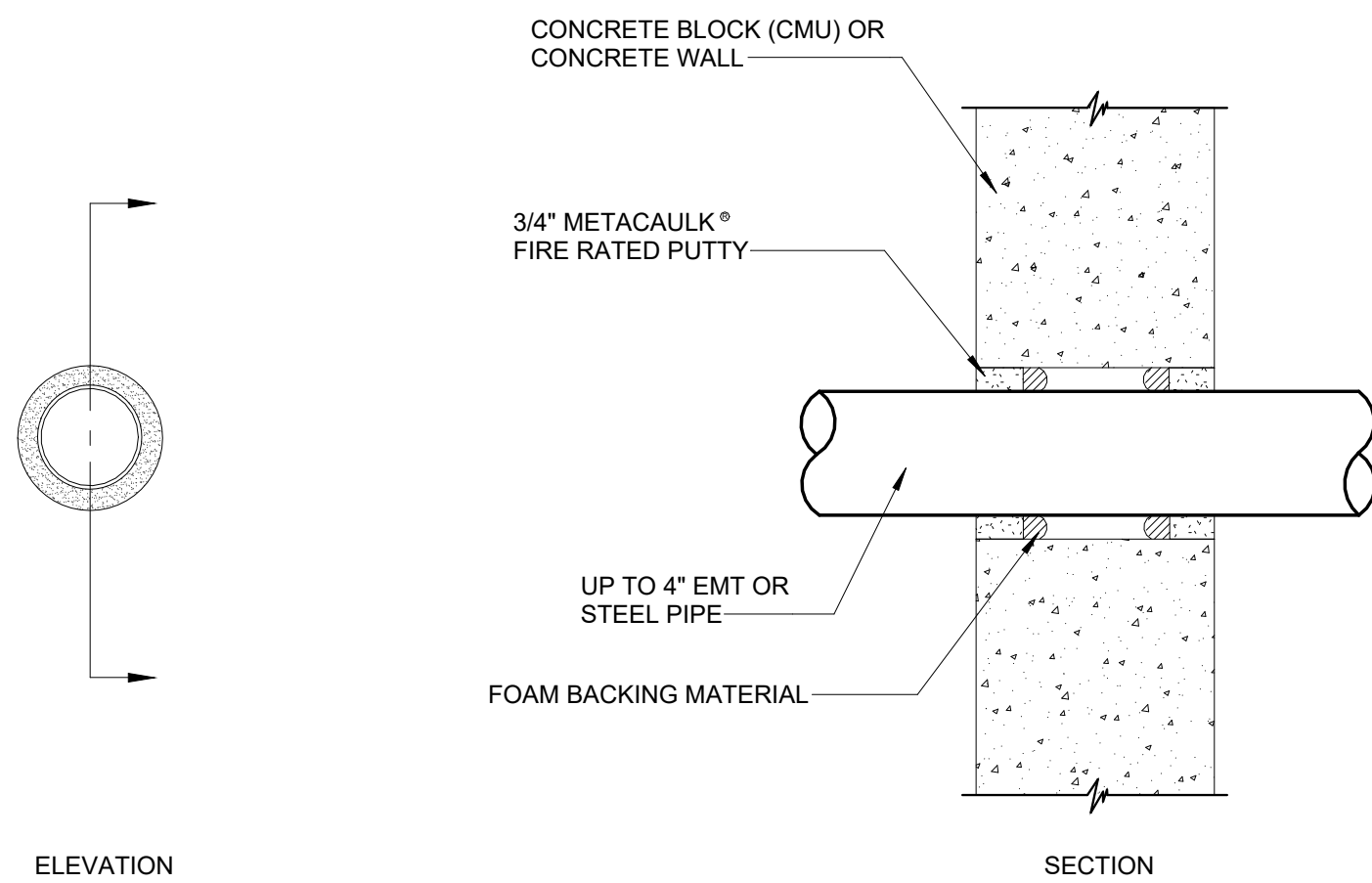
2 SERVICE GROUNDING DETAIL
E-501 NO SCALE



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

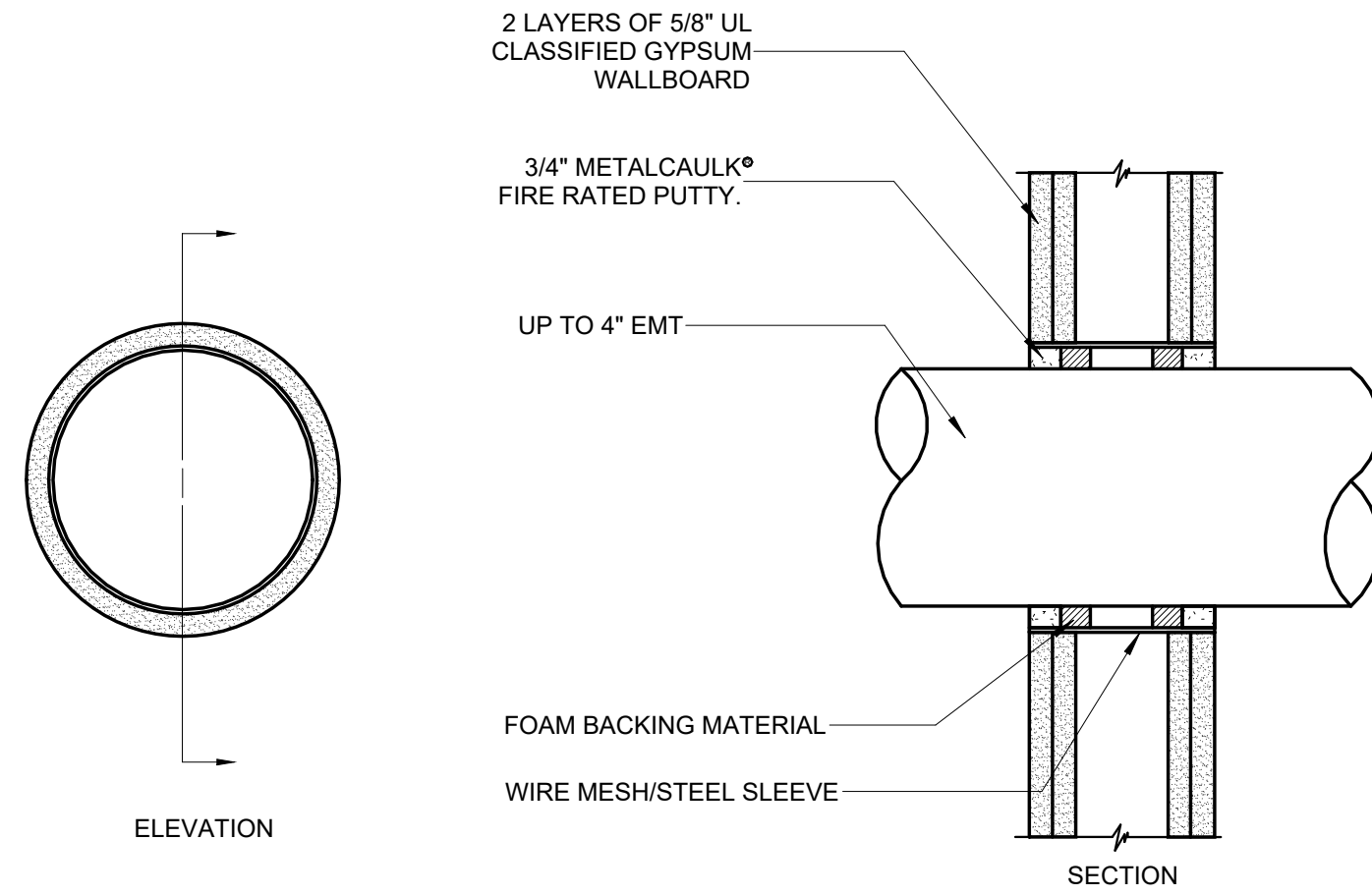


4 DETAIL - CABLE CONNECTION TO STEEL BEAM
E-501 NO SCALE



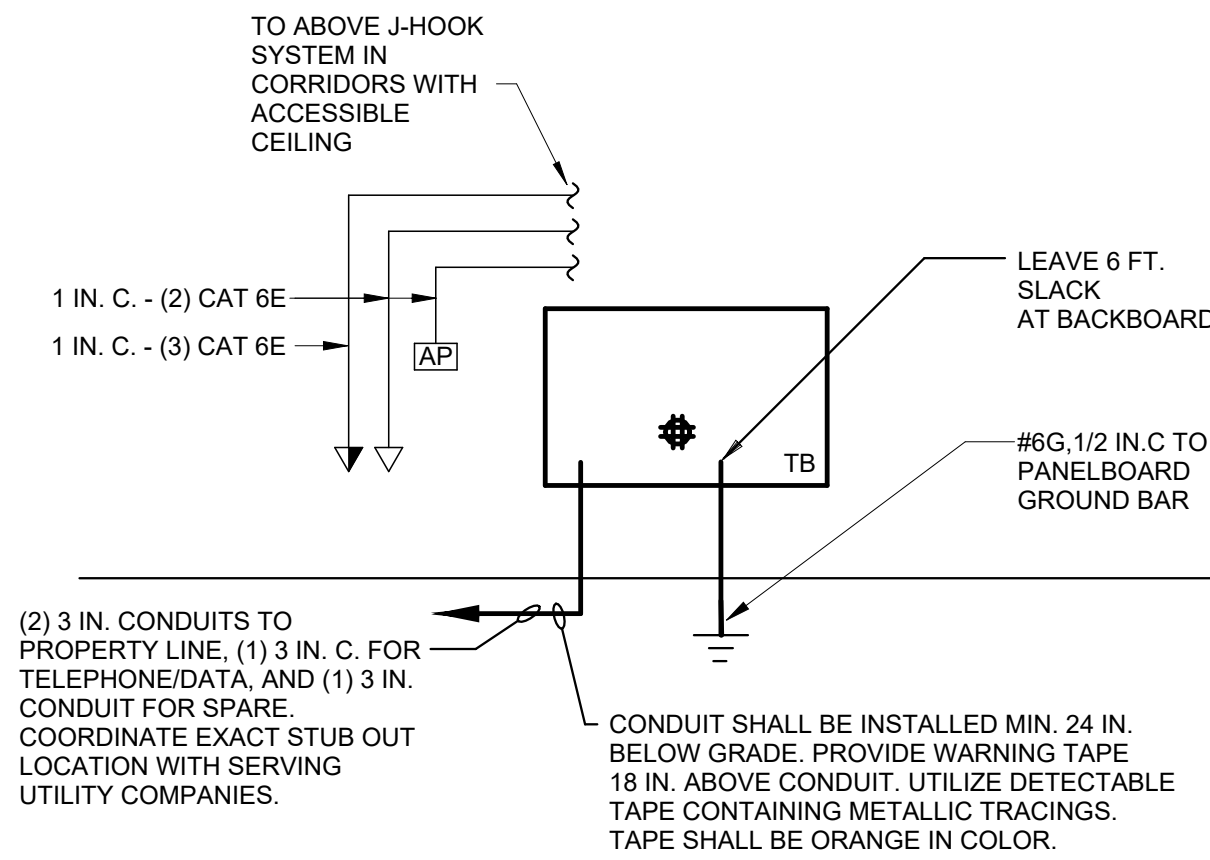
NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

5 DETAIL - CONCRETE WALL PENETRATION
E-501 NO SCALE

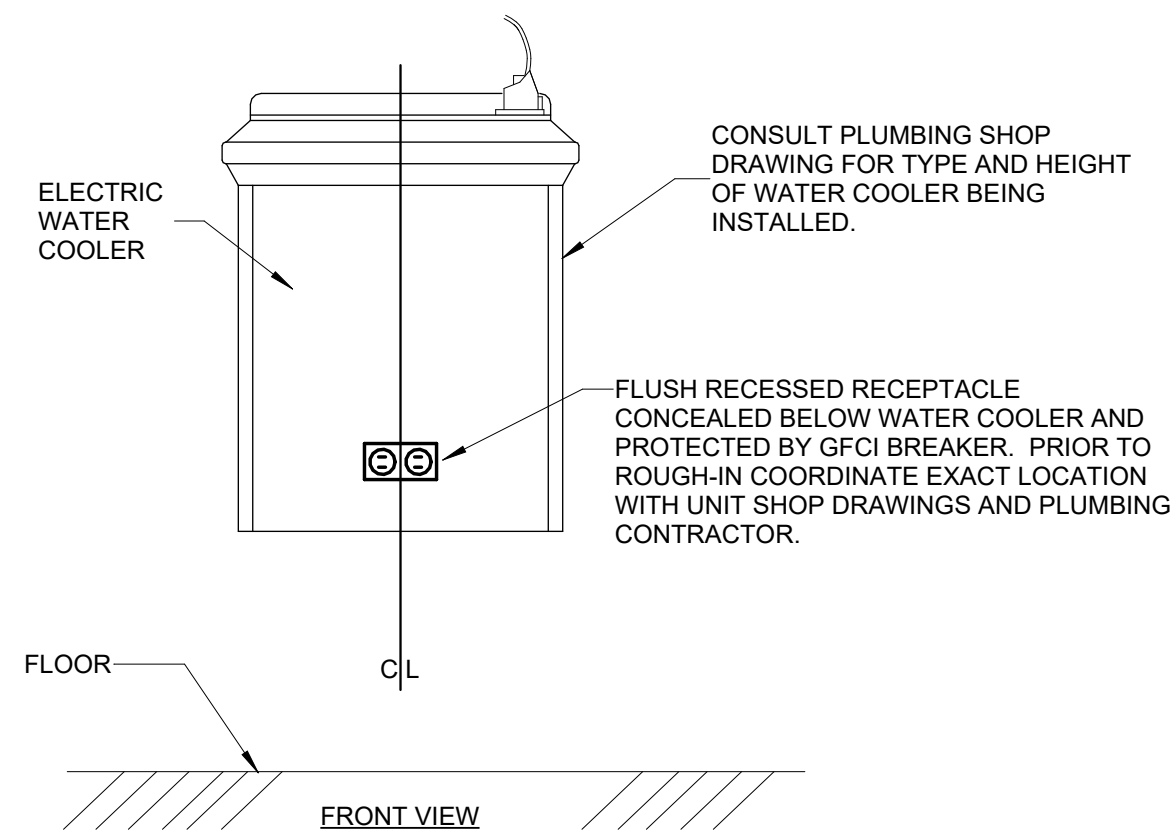


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE.

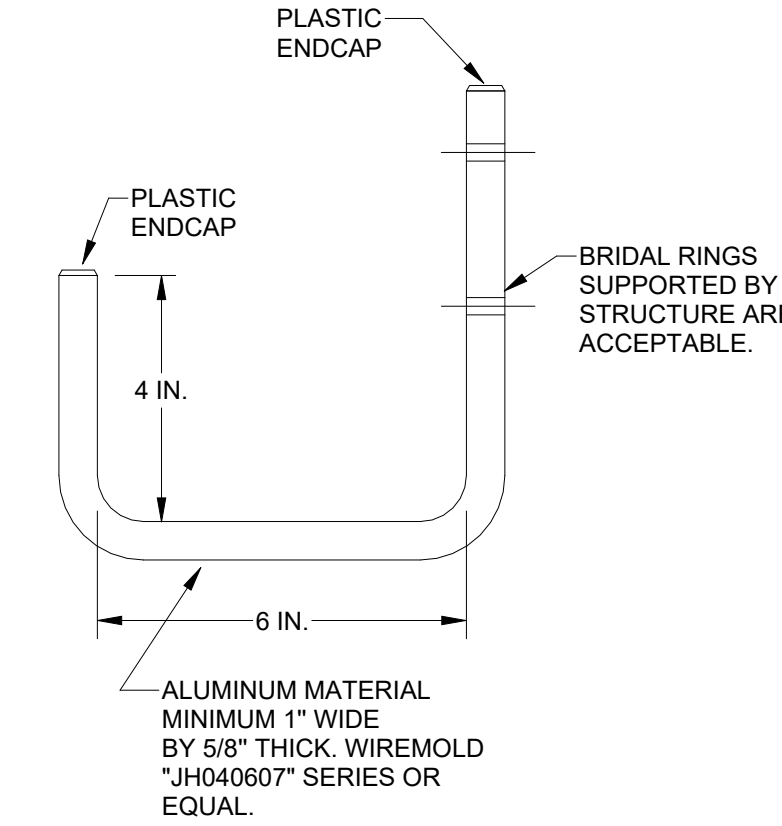
6 DETAIL - GYPSUM WALLBOARD PENETRATION
E-501 NO SCALE



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)

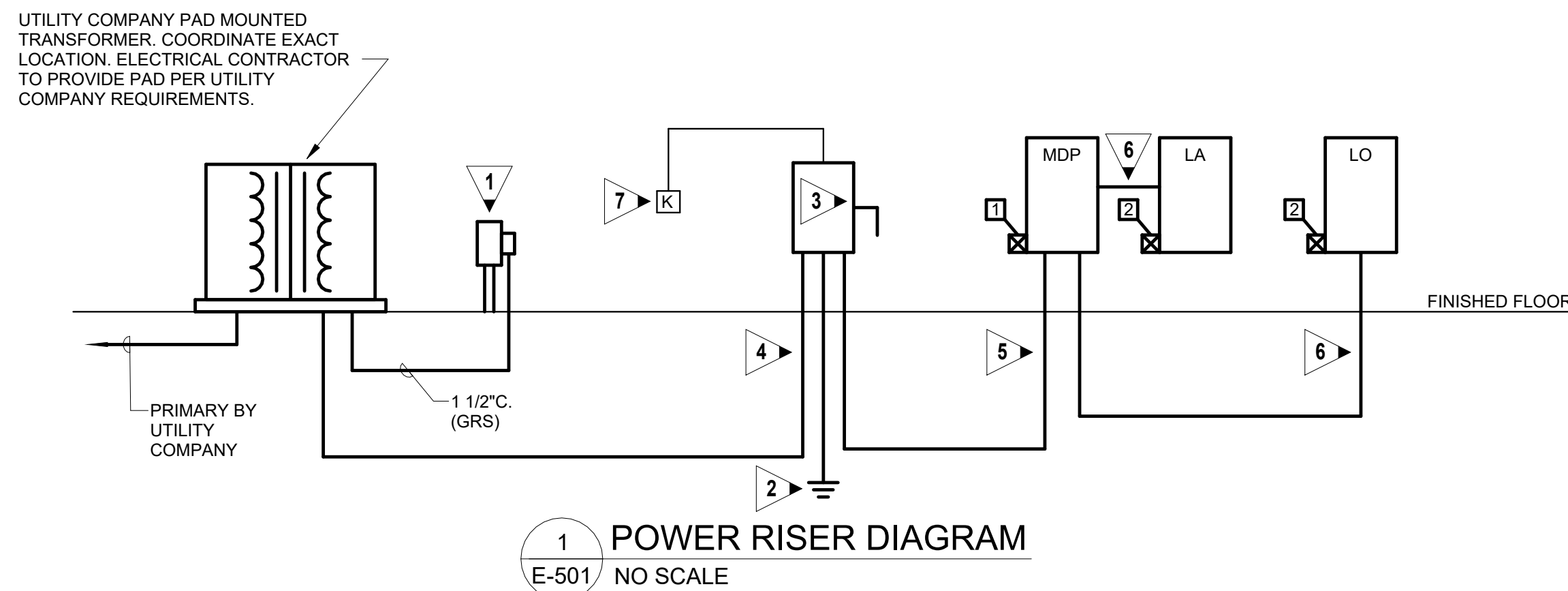
- ADDITIONAL WALL SLEEVES AND WALL PENETRATIONS WILL BE REQUIRED FOR NETWORK CABLING. PROVIDE AS NECESSARY AND FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS.
- ALL JACKS SHALL BE PROVIDED WITH ICON DENOTING DATA OR VOICE OUTLET. OUTLET SHALL BE LABELED WITH FOLLOWING NOMENCLATURE:

D M XXX JACK NUMBER

MDF OR IDF DESIGNATION FROM WHICH JACK IS SERVED.

D OR V INDICATING VOICE OR DATA OUTLET.

ALL PATCH PANELS AND 110 BLOCKS SHALL BE CORRESPONDINGLY LABELED.
- 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.



T.V.S.S.

- | | |
|-----------------------|---|
| 1 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. |
| 2 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. |

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).

ALPHA BLDG SET 09-17-2026

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.

PANELBOARD: LO

LOCATION: CLOSET 107

MOUNTING: SURFACE NEMA 1

MAIN DEVICE: 200.0 A MLO

BUS AMPS: 200 AMPS

VOLTAGE: 120/240 V, 1 ø 3 W.

A.I.C. RATING: 25,000 AMPS SYMMETRICAL

SPECIAL:

FED FROM: MDP

LOAD NAME	NOTE	BKR	P	CKT	A	B	CKT	P	BKR	NOTE	LOAD NAME										
OFFICE LIGHTS		20 A	1	1	1.5	0.5			20 A		BREAK RECEPT										
FRONT DESK RCPT.		20 A	1	3			0.7	1.0	4	1	20 A										
RECEPTION RCPT.		20 A	1	5	0.9	0.4			6	1	20 A										
RECEPTION RCPT.		20 A	1	7			0.5	0.2	8	1	20 A										
RESTROOM RECEPT.		20 A	1	9	0.5	2.3			10												
HALLWAY RECEPT.		20 A	1	11					12												
EWC	1	20 A	1	13	1.2	0.5			14		20 A										
TB		20 A	1	15			0.5	0.5	16	1	20 A										
ELEC. RECEPT.		20 A	1	17	0.5	0.0			18	1	20 A										
OFFICE RECEPT.		20 A	1	19			0.7	0.0	20	1	20 A										
OFFICE RECEPT.		20 A	1	21	0.7	0.0			22	1	20 A										
OFFICE RECEPT.		20 A	1	23			0.7	0.0	24	1	20 A										
DISPATCH RECEPT.		20 A	1	25	0.7	--			26	1	--										
SPARE		20 A	1	27			0.0	--	28	1	--										
SPARE		20 A	1	29	0.0	--			30	1	--										
SPARE		20 A	1	31			0.0	--	32	1	--										
SPARE		20 A	1	33	0.0	--			34	1	--										
SPARE		20 A	1	35			0.0	--	36	1	--										
TVSS		60 A	2	37	0.0	--			38	1	--										
TOTAL LOAD: 10 kVA						7 kVA															
TOTAL AMPS: 81 A						58.8 A															
LOAD CLASSIFICATION		CONNECTED		DEMAND		ESTIMATED		PANEL TOTALS													
RECEPTACLES		10440 VA		97.89%		10220 VA		CONNECTED LOAD: 16909 VA													
MTR		105 VA		108.33%		114 VA		ESTIMATED DEMAND: 17040 VA													
HEAT		4500 VA		100.00%		4500 VA		CONNECTED CURRENT: 70.5 A													
LITES		1374 VA		125.00%		1718 VA		EST. DEMAND CURRENT: 71.0 A													

NOTES:

1. PROVIDE 200 AMP BREAKER

2. LABEL CIRCUIT PER NEC 2023 FOR FIRE ALARM CONTROL. PROVIDE HASP LOCK FOR BREAKER

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
 Owner/Agent:
 Designer/Contractor: Electrical Design Consultants, 175 New Street Suite 1, Macon, GA 31201

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

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Warehouse	18163	0.66	11988
2-Office	1373	0.82	1126
Total Allowed Watts =			13113

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Warehouse D: 4 FT. LED HIGHBAY: Other:	1	32	184	5888
A: 2 FT. X 4 FT. TROFFER: LED Panel S4W:	1	22	51	1122
B: 2 FT. X 2 FT. TROFFER: LED Panel 44W:	1	3	43	129
C: 3 FT. VANITY FIXTURE: LED Other Fixture Unit 36W:	1	3	36	105
Total Proposed Watts =			7244	

Interior Lighting PASSES: Design 45% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE
 Name - Title

Signature

04/22/26
 Date

Project Title: Drywall Warehouse Highway 81
 Data filename: Z:\2026 CAD\26042 Drywall Warehouse Walton Col\WORKING DRAWINGS\ELECTRICAL\Lighting\Drywall Warehouse COMcheck.cck

Report date: 04/22/26

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
 Owner/Agent:
 Designer/Contractor: Electrical Design Consultants, 175 New Street Suite 1, Macon, GA 31201

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Exterior Perimeter (Walkway - 10 feet wide)	630 ft of	0.7	Yes	441
Total Tradable Watts (a) =			441	
Total Allowed Supplemental Watts (b) =			441	
Total Allowed Supplemental Watts (b) =			500	

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Exterior Perimeter (Walkway < 10 feet wide 630 ft of walkway length): Tradable Wattage OA: OA: WALL PACK: LED Other Fixture Unit 50W:	1	19	45	855
Total Tradable Proposed Watts =			855	

Exterior Lighting PASSES: Design 9% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jeffrey H. McGee, PE
 Name - Title

Signature

04/22/26
 Date

Project Title: Drywall Warehouse Highway 81
 Data filename: Z:\2026 CAD\26042 Drywall Warehouse Walton Col\WORKING DRAWINGS\ELECTRICAL\Lighting\Drywall Warehouse COMcheck.cck

Report date: 04/22/26

ALPHA BLDG SET 09-17-2026

